

D.C. Cook 2**1Q/2000 Performance Indicators**

Licensee's General Comments: This is a historical data submittal for Unit 2. Performance Indicator data for the Mitigating Systems and Barrier Integrity cornerstones to be submitted later.

Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned scrams	0	0	0	0	0
Critical hours	0	0	0	0	0
Indicator value	N/A	N/A	N/A	N/A	N/A

Licensee Comments: none

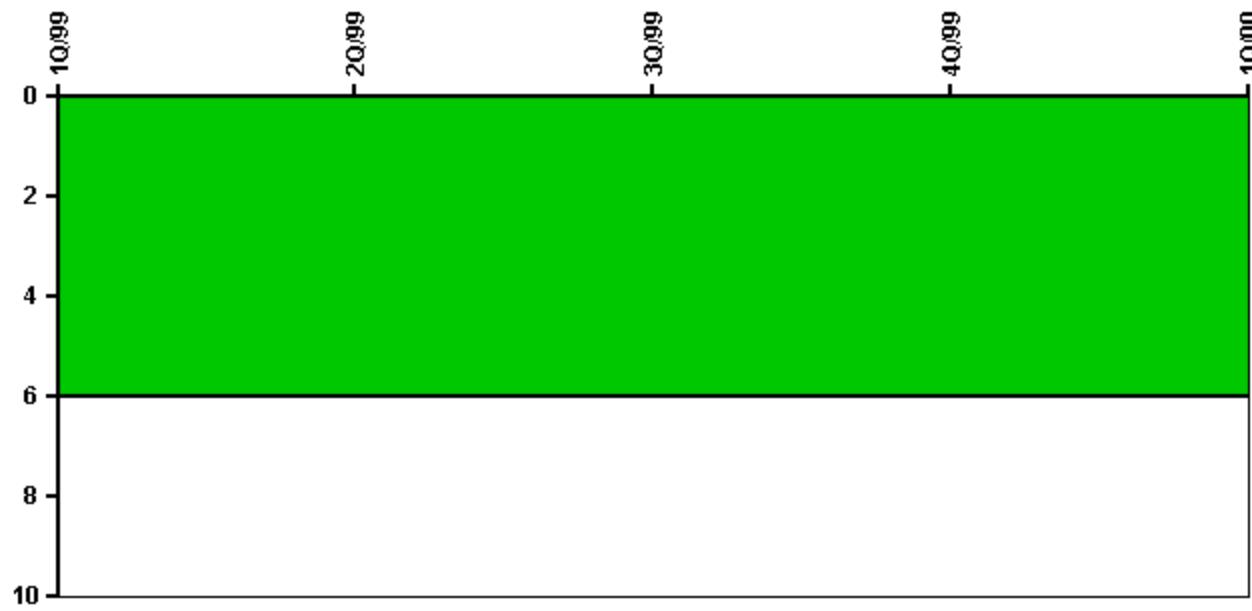
Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Scrams	0	0	0	0	0
Indicator value					0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned power changes	0	0	0	0	0
Critical hours	0	0	0	0	0
Indicator value	N/A	N/A	N/A	N/A	N/A

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	0
Train 2					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	0
Indicator value					

Licensee Comments:

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

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Safety System Unavailability, High Pressure Injection System (HPSI)



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)		1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1						
Planned unavailable hours		0	0	0	0	0
Unplanned unavailable hours		0	0	0	0	0
Fault exposure hours		0	0	0	0	0
Effective Reset hours		0	0	0	0	0
Required hours		0	0	0	0	0
Train 2						
Planned unavailable hours		0	0	0	0	0
Unplanned unavailable hours		0	0	0	0	0
Fault exposure hours		0	0	0	0	0
Effective Reset hours		0	0	0	0	0
Required hours		0	0	0	0	0
Train 3						
Planned unavailable hours		0	0	0	0	0
Unplanned unavailable hours		0	0	0	0	0
Fault exposure hours		0	0	0	0	0

Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	0
Train 4					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	0
Indicator value					

Licensee Comments:

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, Heat Removal System (AFW)



Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	0
Train 2					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	0
Train 3					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	0
Indicator value					

Licensee Comments:

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

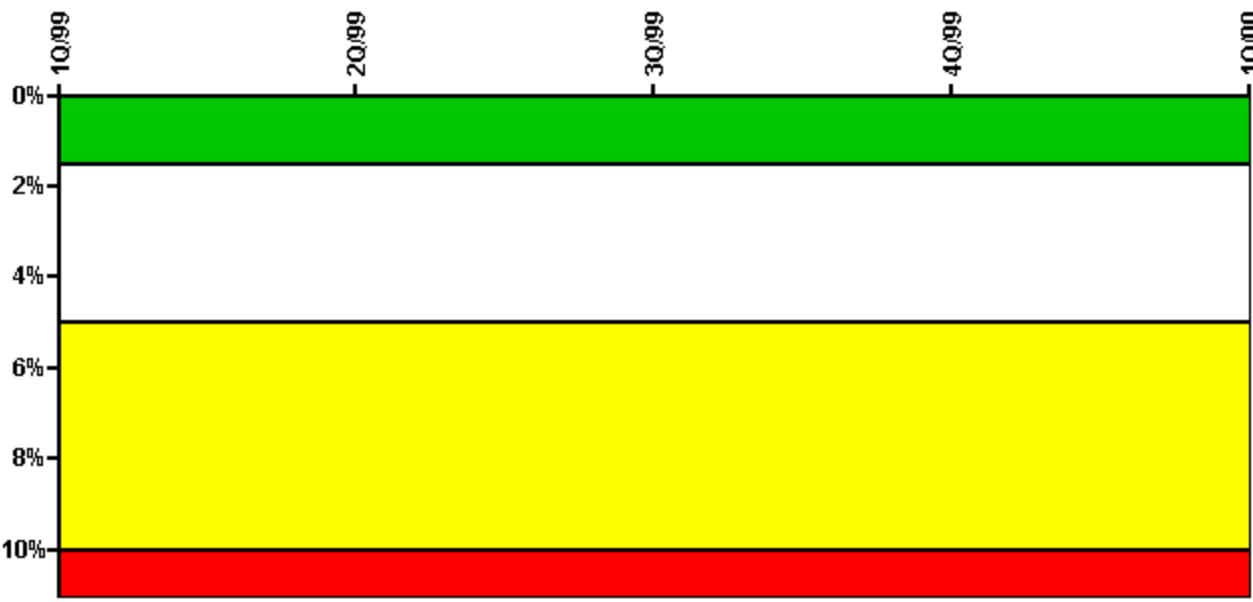
4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

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1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System		1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1						
Planned unavailable hours		0	0	0	0	0
Unplanned unavailable hours		0	0	0	0	0
Fault exposure hours		0	0	0	0	0
Effective Reset hours		0	0	0	0	0
Required hours		0	0	0	0	0
Train 2						
Planned unavailable hours		0	0	0	0	0
Unplanned unavailable hours		0	0	0	0	0
Fault exposure hours		0	0	0	0	0
Effective Reset hours		0	0	0	0	0
Required hours		0	0	0	0	0
Indicator value						

Licensee Comments:

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

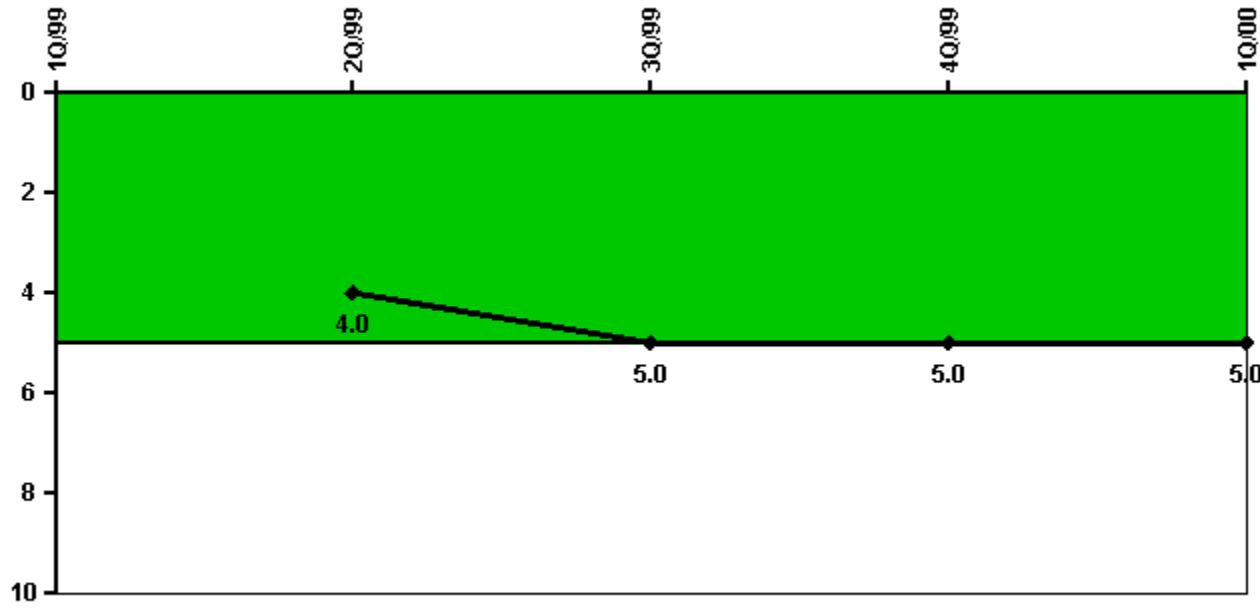
3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved

November 15, 2001.

Safety System Functional Failures (PWR)

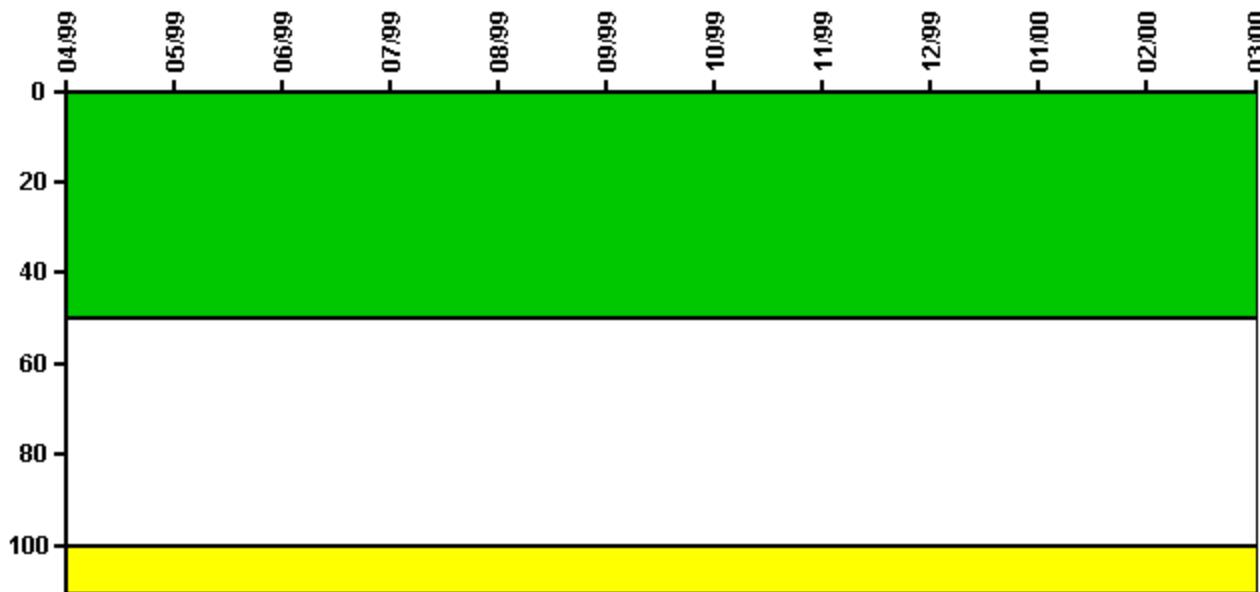


Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Safety System Functional Failures	1	2	2	0	1
Indicator value			4	5	5

Licensee Comments: none

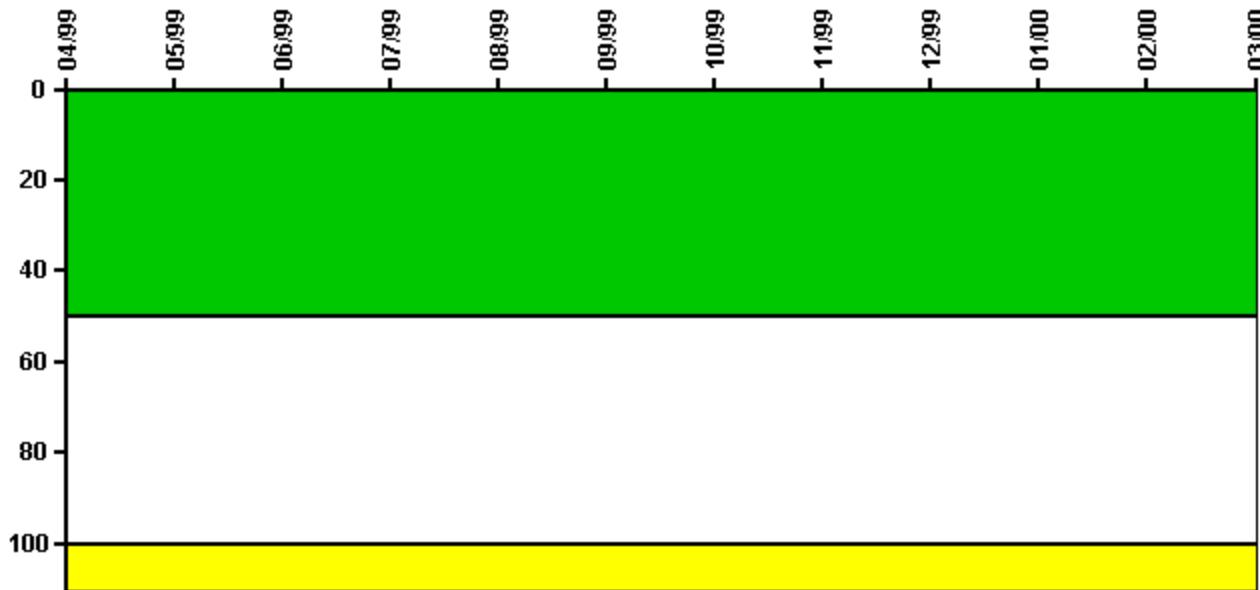
Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum activity												
Technical specification limit												
Indicator value												

Licensee Comments: none

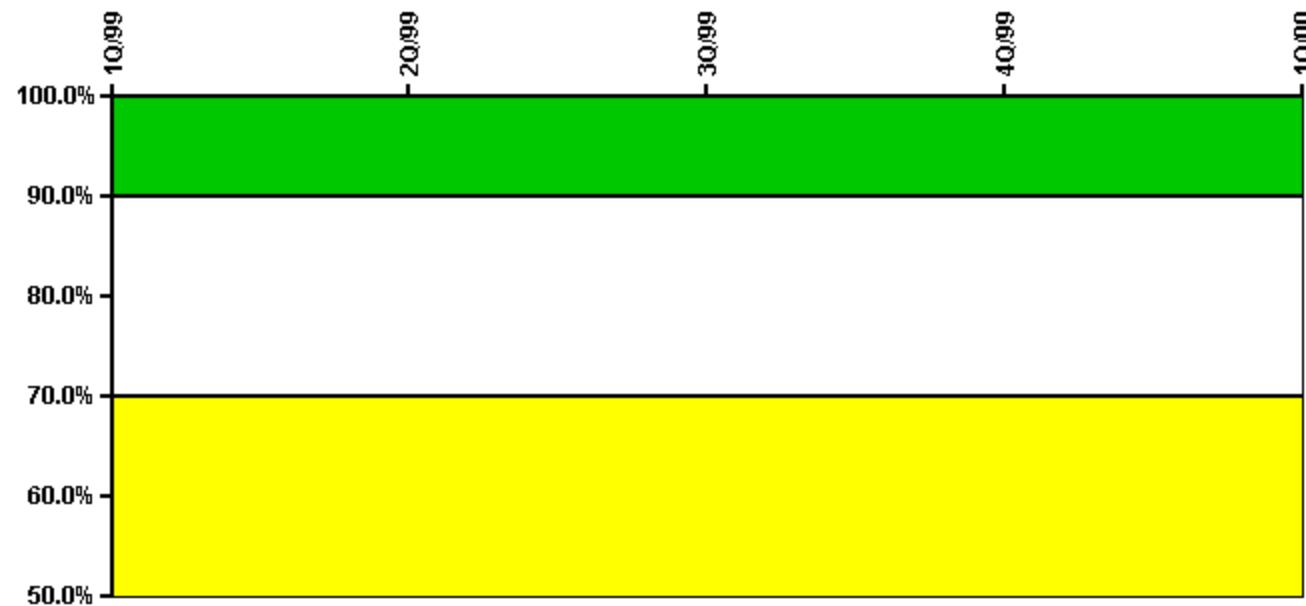
Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum leakage												
Technical specification limit												
Indicator value												

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

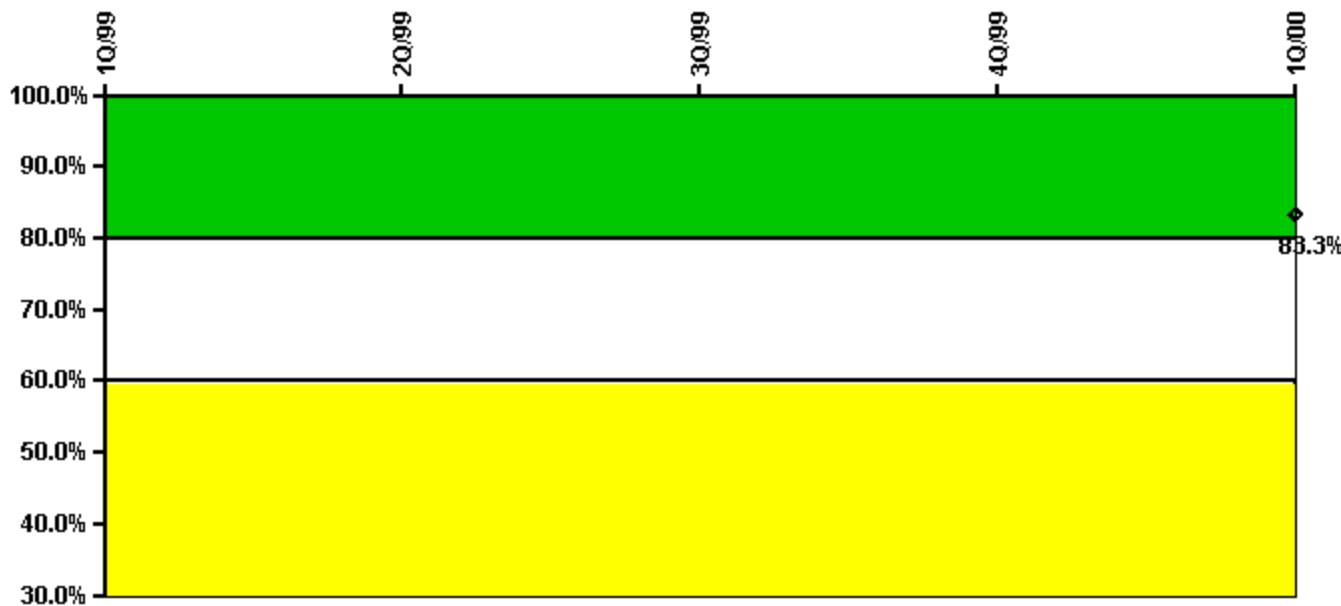
Drill/Exercise Performance	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful opportunities			6.0	24.0	25.0
Total opportunities			6.0	24.0	25.0
Indicator value					

Licensee Comments:

1Q/00: Corrected data submitted 2Q2000. The original submitted data was a summation of Q4/1999, Q3/1999 and Q1/2000 instead of Q1/2000 individually.

1Q/00: Unable to generate performance data prior to Q3/1999. Records are unavailable to extract the information.

4Q/99: Corrected data submitted 2Q2000. The original submitted data was a summation of Q3/1999 and Q4/1999 instead of Q4/1999 individually.

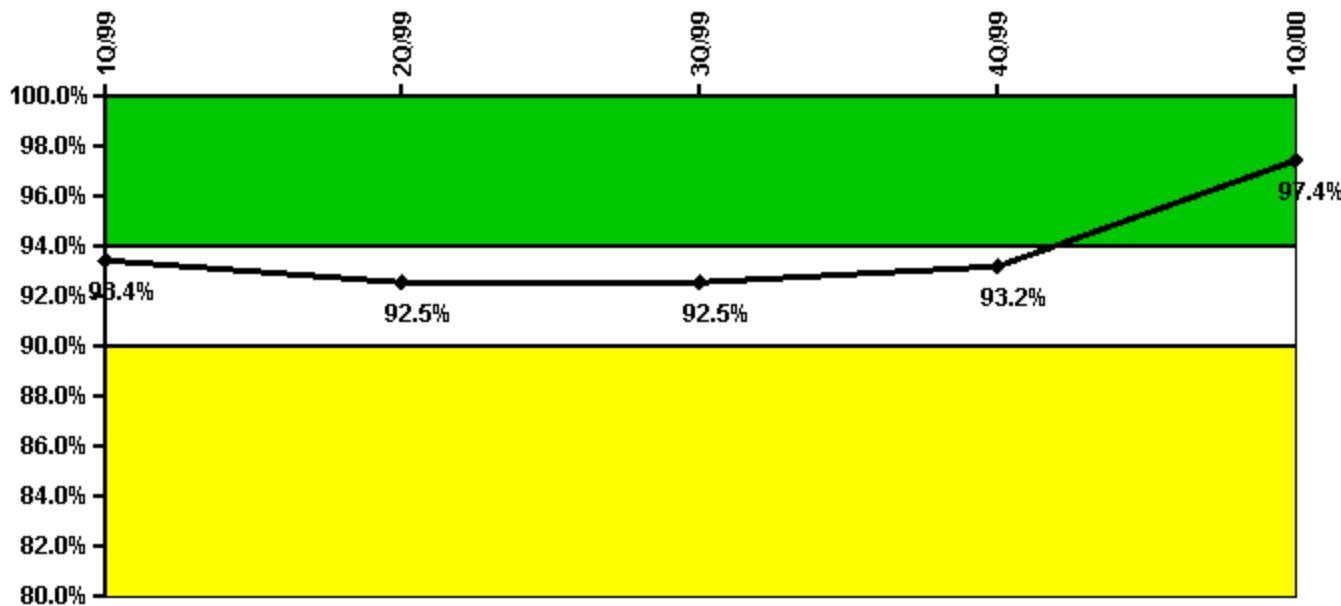
ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Participating Key personnel					35.0
Total Key personnel					42.0
Indicator value					83.3%

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

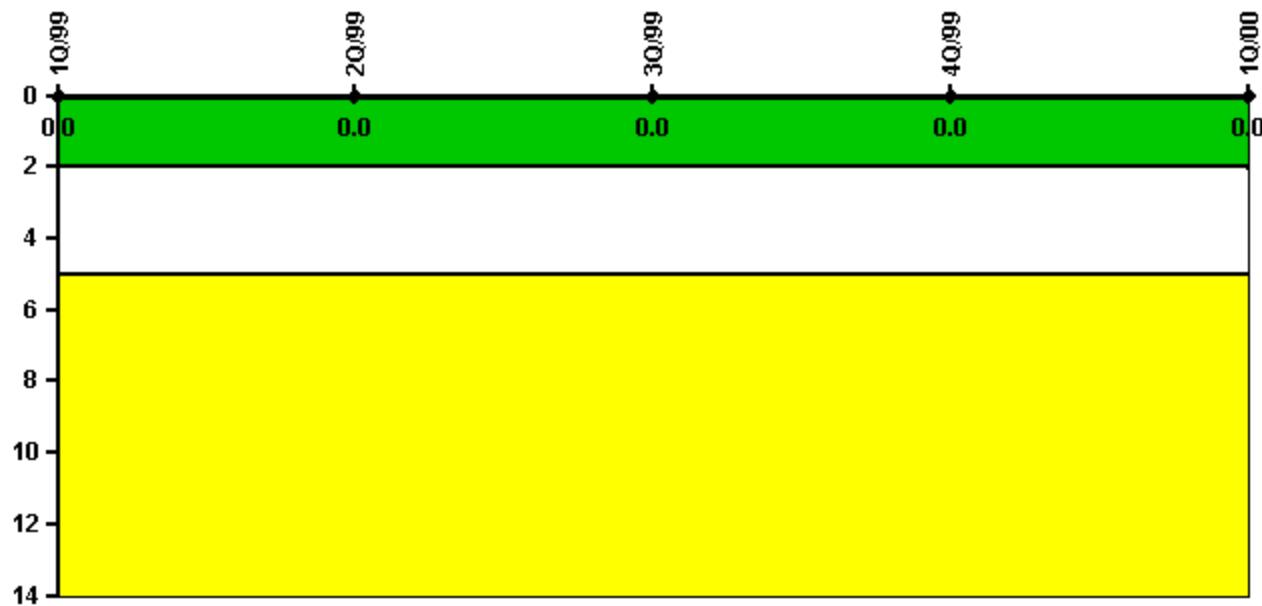
Notes

Alert & Notification System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful siren-tests	196	228	227	207	209
Total sirens-tests	237	237	237	210	210
Indicator value	93.4%	92.5%	92.5%	93.2%	97.4%

Licensee Comments:

4Q/98:

4Q/98:

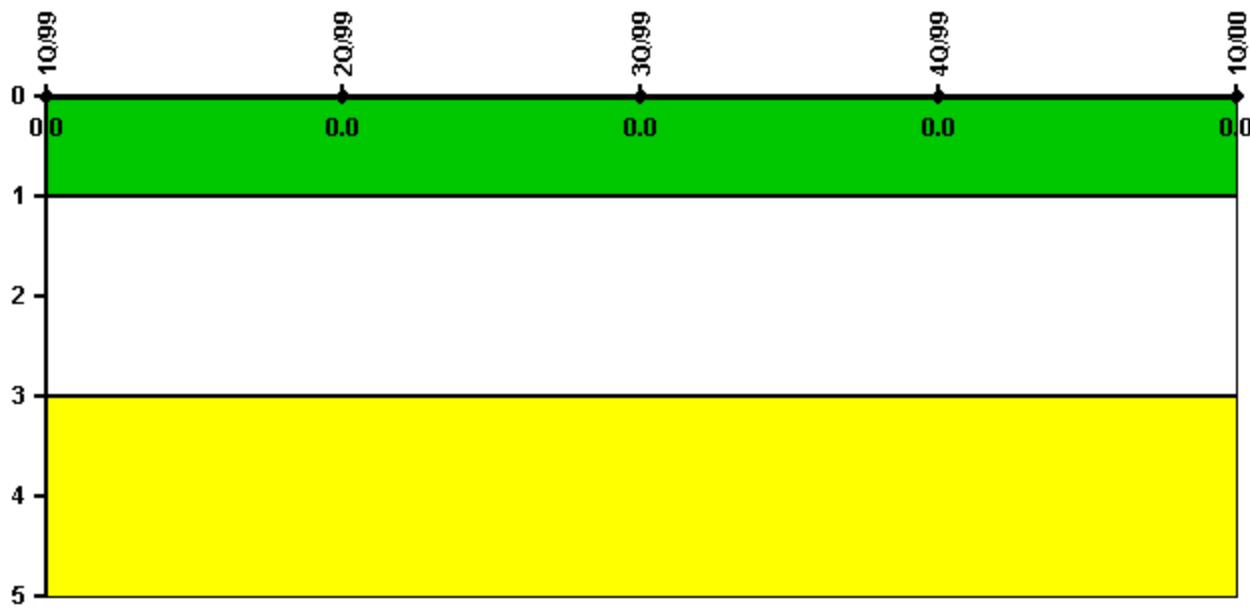
Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

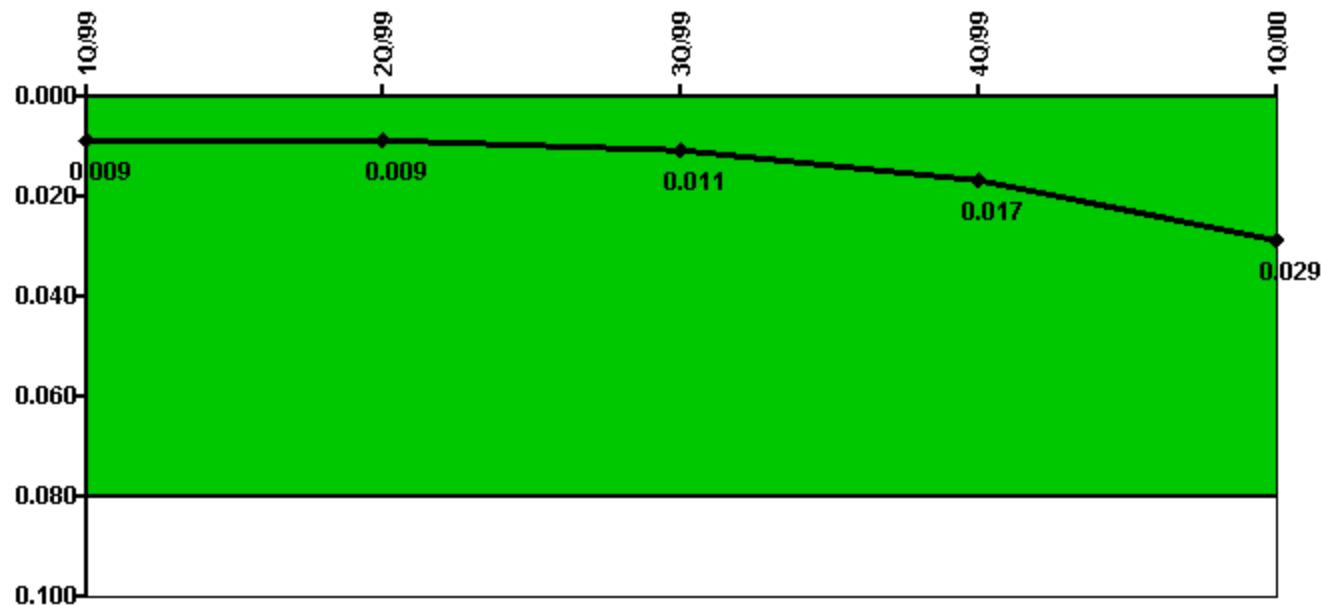
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

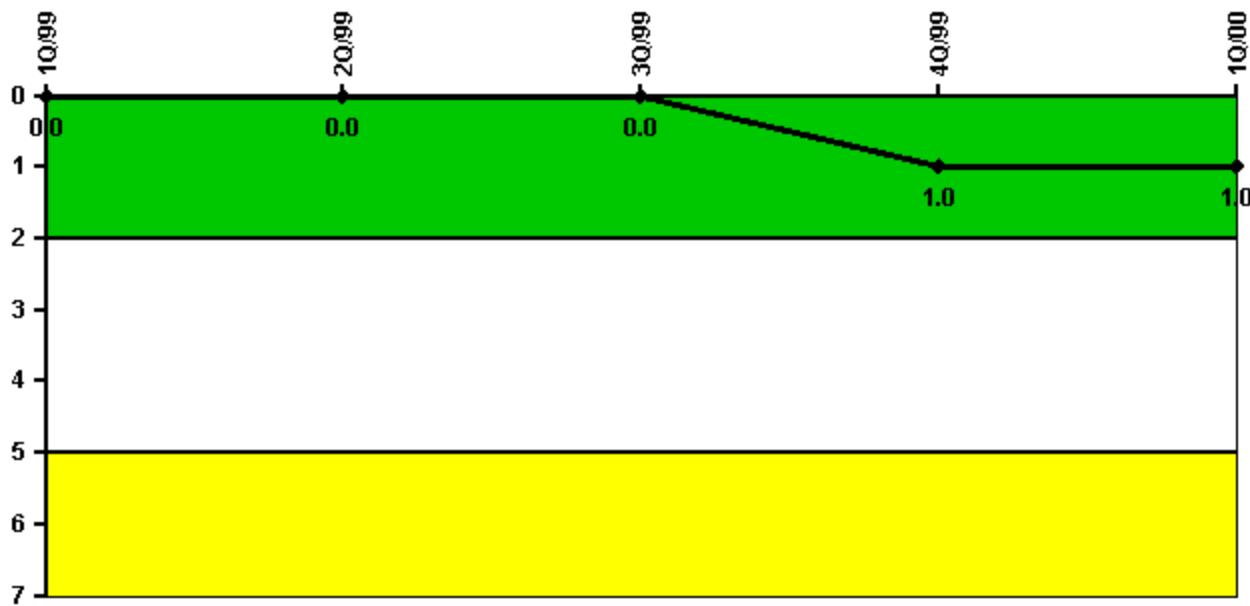
Notes

Protected Area Security Performance Index	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
IDS compensatory hours	83.30	32.50	30.80	199.30	364.70
CCTV compensatory hours	32.7	0	3.2	16.7	38.5
IDS normalization factor	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	0.009	0.009	0.011	0.017	0.029

Licensee Comments:

2Q/99: Corrected data submitted 2Q2000 to correct IDS Compensatory Hours. Additional compensatory hours discovered during security log review.

Personnel Screening Program



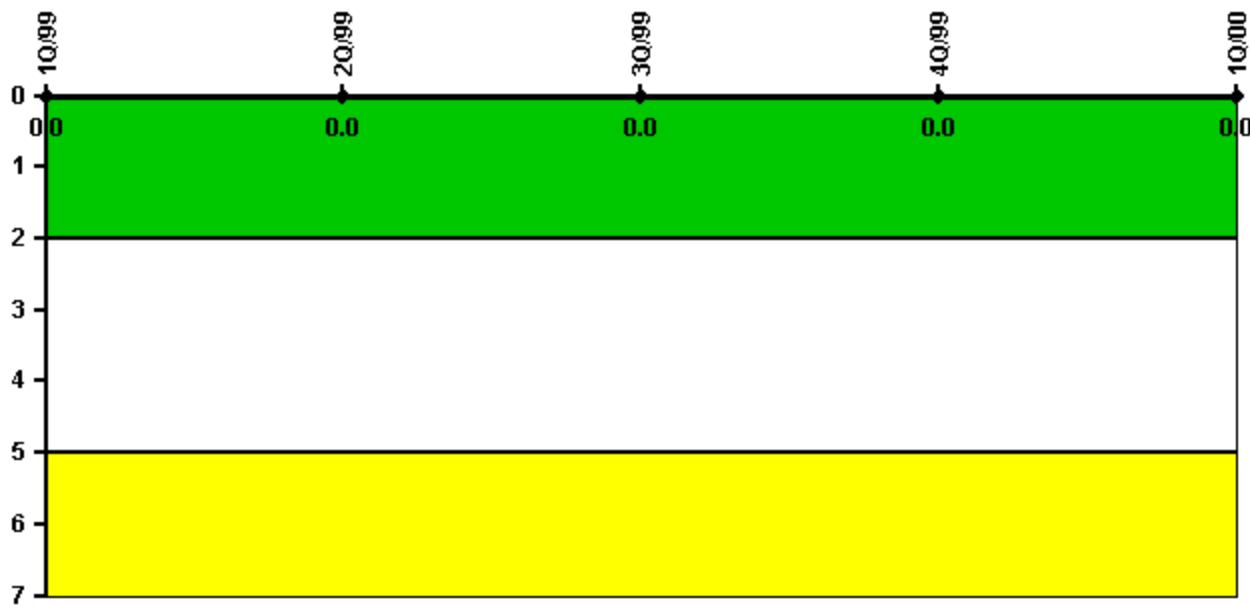
Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Program failures	0	0	0	1	0
Indicator value	0	0	0	1	1

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Program Failures	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none



[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

Last Modified: April 1, 2002

D.C. Cook 2**2Q/2000 Performance Indicators**

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned scrams	0	0	0	0	0
Critical hours	0	0	0	0	197.0
Indicator value	N/A	N/A	N/A	N/A	N/A

Licensee Comments: none

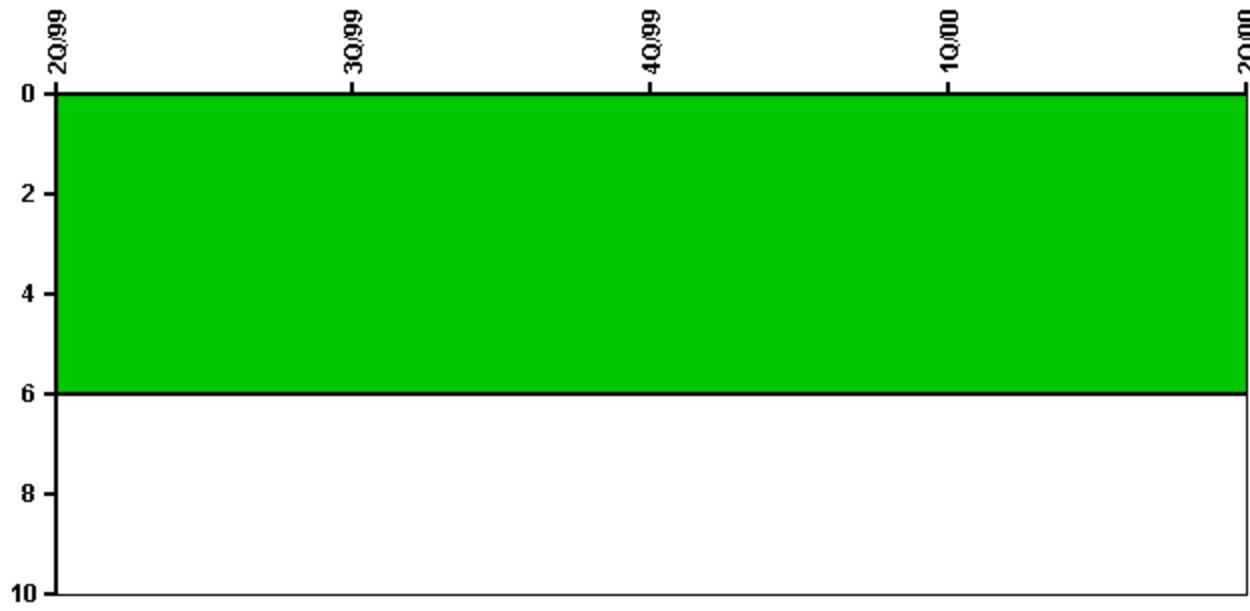
Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Scrams	0	0	0	0	0
Indicator value				0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned power changes	0	0	0	0	0
Critical hours	0	0	0	0	197.0
Indicator value	N/A	N/A	N/A	N/A	N/A

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0	0	0	0	4.45
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	2184.00
Train 2					
Planned unavailable hours	0	0	0	0	6.20
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	2184.00
Indicator value					

Licensee Comments:

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2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

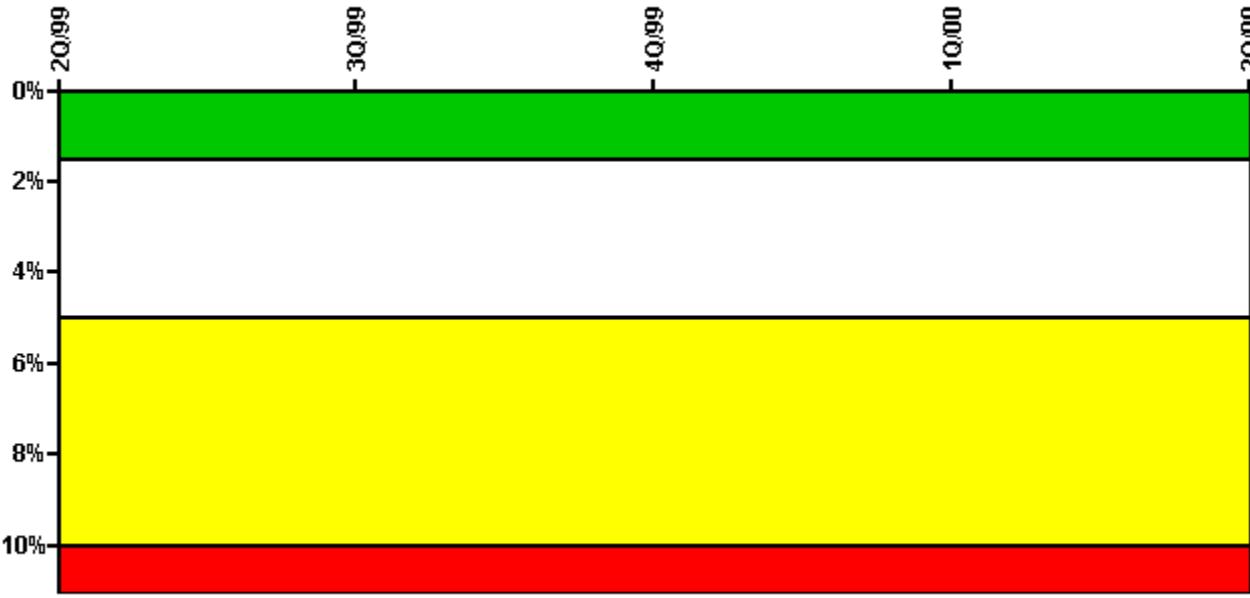
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1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, High Pressure Injection System (HPSI)



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)					
	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	581.00
Train 2					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	581.00
Train 3					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0

Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	453.60
Train 4					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	11.25
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	453.60
Indicator value					

Licensee Comments:

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1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, Heat Removal System (AFW)



Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0	0	0	0	0.98
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	454.00
Train 2					
Planned unavailable hours	0	0	0	0	1.10
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	454.00
Train 3					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	78.06
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	454.00
Indicator value					

Licensee Comments:

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

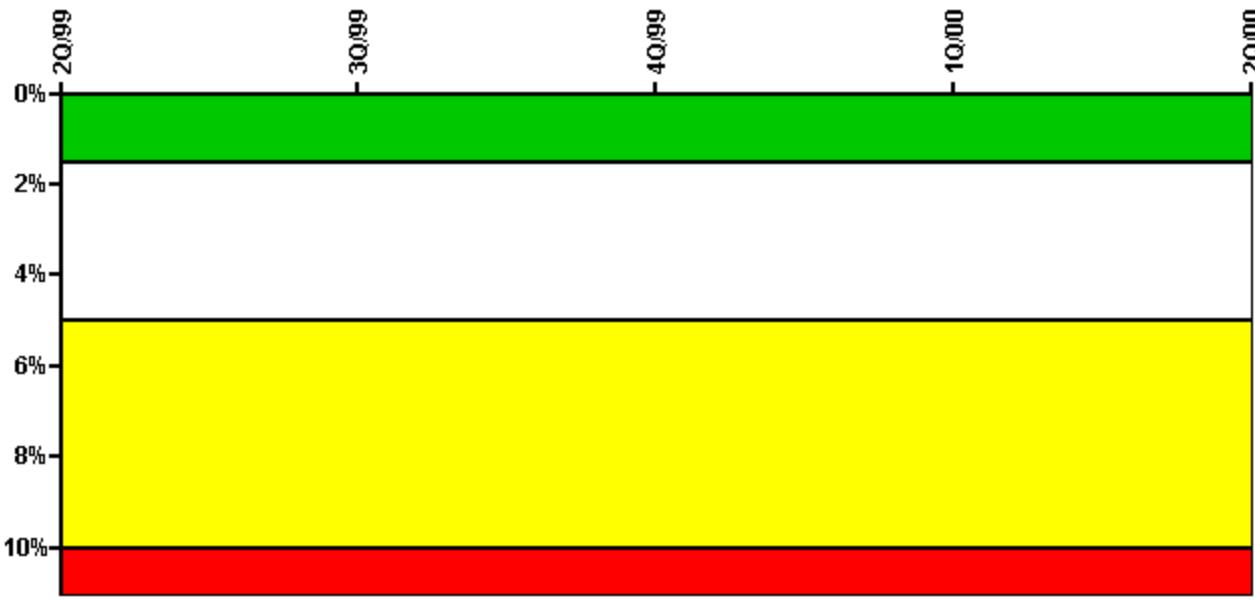
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1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	2184.00
Train 2					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	0	2184.00
Indicator value					

Licensee Comments:

2Q/00:

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

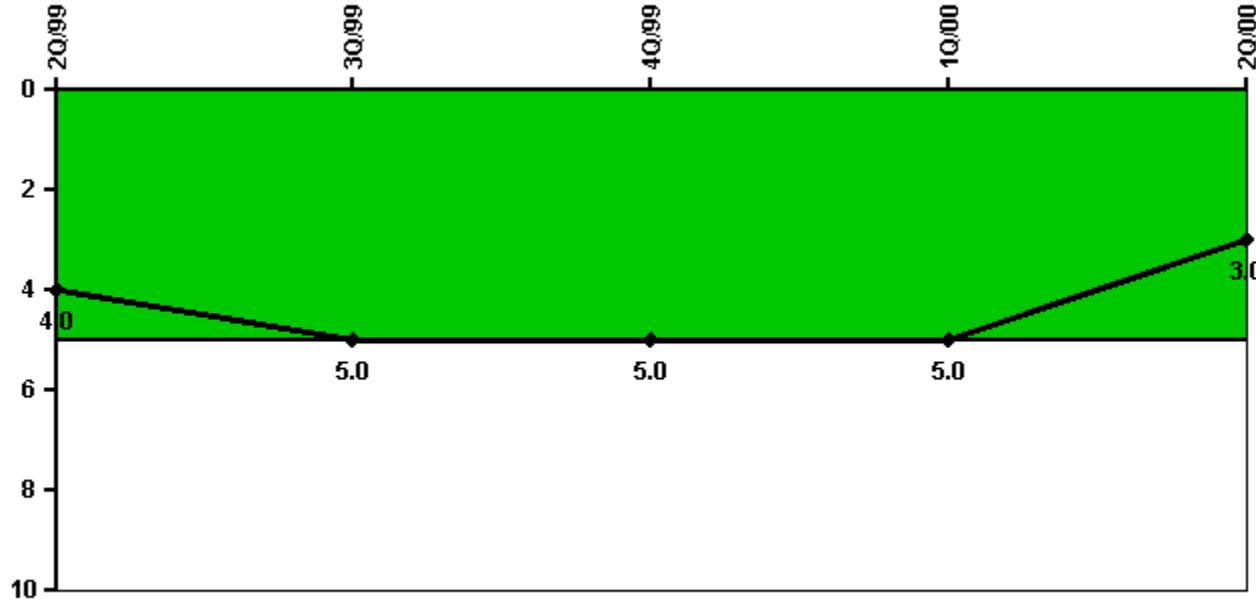
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3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

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Safety System Functional Failures (PWR)



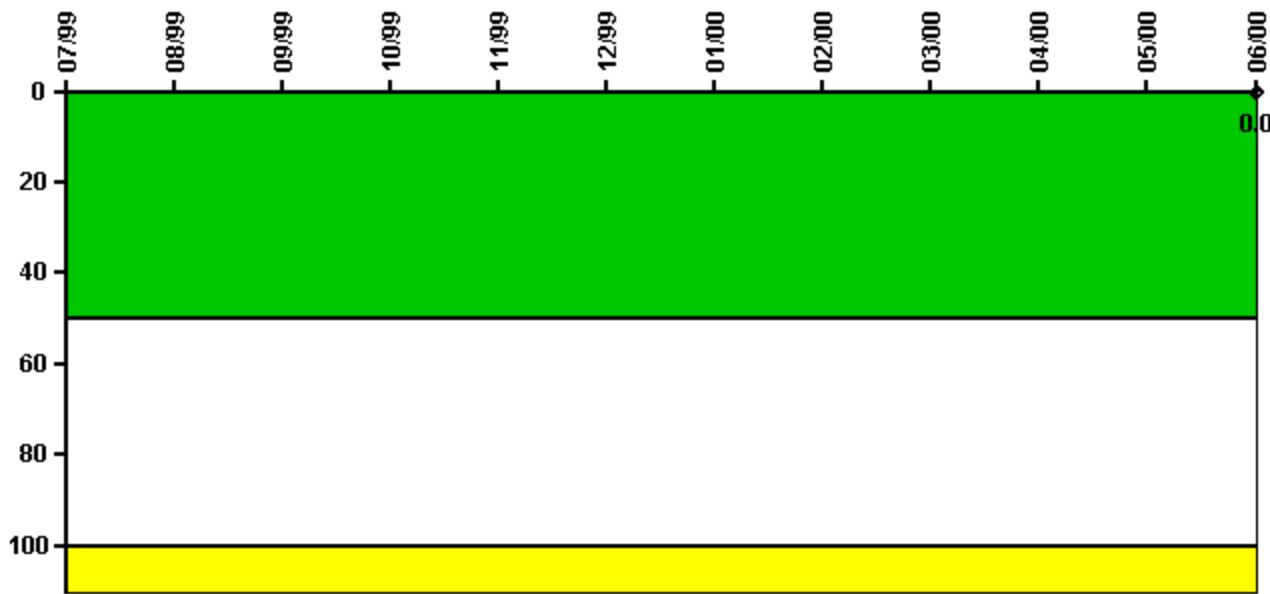
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Safety System Functional Failures	2	2	0	1	0
Indicator value	4	5	5	5	3

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum activity									N/A	N/A	0.000200	
Technical specification limit									1.0	1.0	1.0	
Indicator value									N/A	N/A	0	

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum leakage									N/A	N/A	0	
Technical specification limit									10.0	10.0	10.0	
Indicator value									N/A	N/A	0	

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful opportunities		6.0	24.0	25.0	56.0
Total opportunities		6.0	24.0	25.0	59.0
Indicator value					

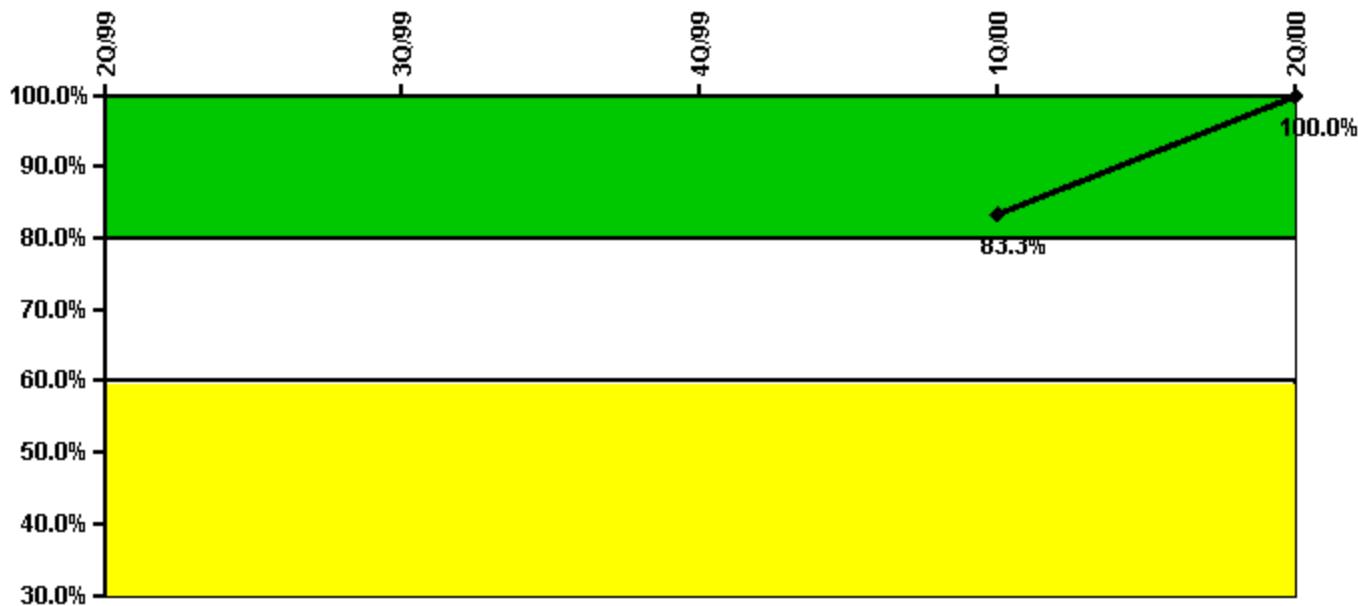
Licensee Comments:

2Q/00: Unable to generate performance data prior to Q3/1999. Records are unavailable to extract the information.

1Q/00: Corrected data submitted 2Q2000. The original submitted data was a summation of Q4/1999, Q3/1999 and Q1/2000 instead of Q1/2000 individually.

1Q/00: Unable to generate performance data prior to Q3/1999. Records are unavailable to extract the information.

4Q/99: Corrected data submitted 2Q2000. The original submitted data was a summation of Q3/1999 and Q4/1999 instead of Q4/1999 individually.

ERO Drill Participation

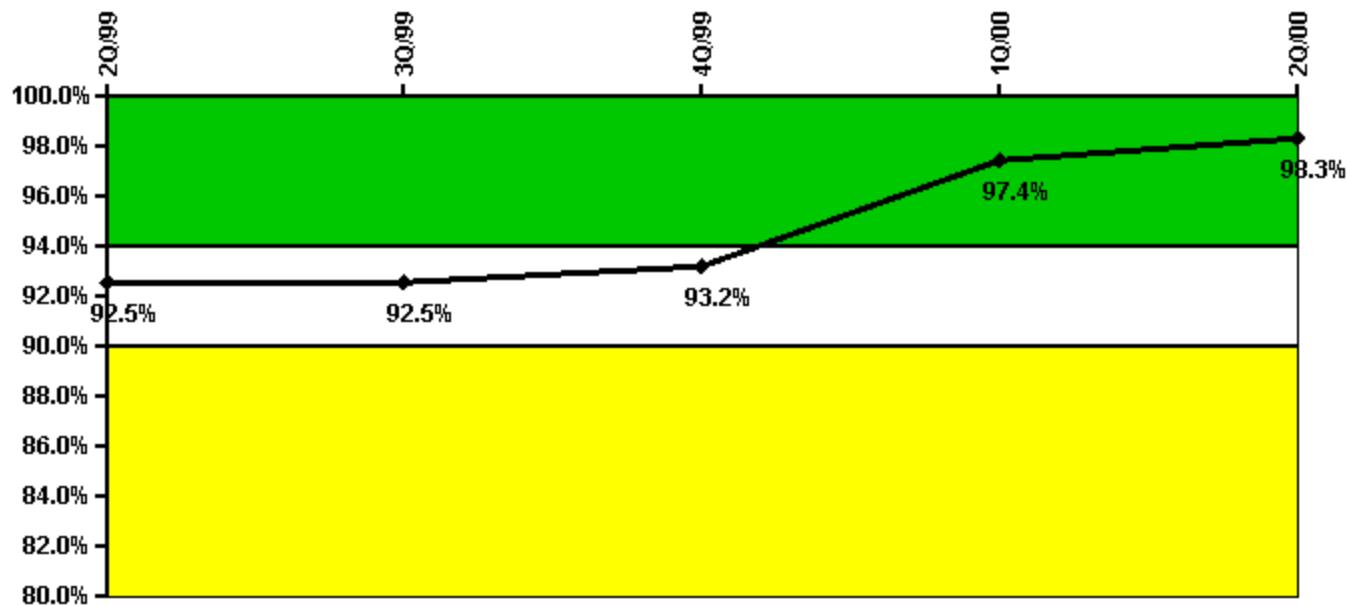
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Participating Key personnel			35.0	46.0	
Total Key personnel			42.0	46.0	
Indicator value			83.3%	100.0%	

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

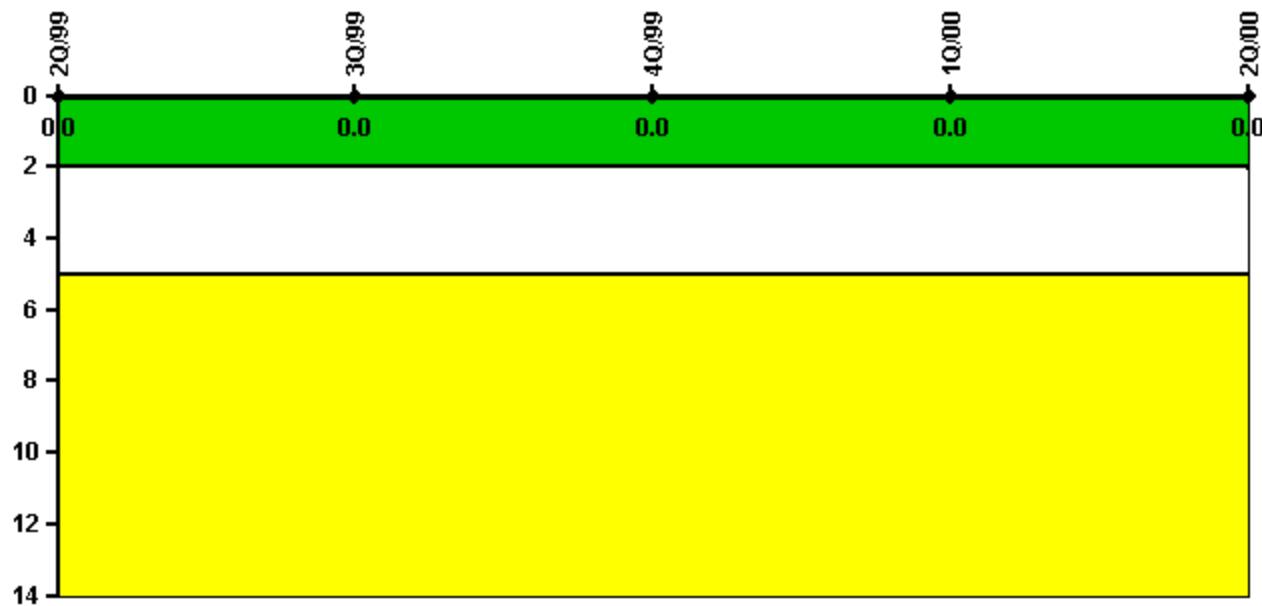
Notes

Alert & Notification System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful siren-tests	228	227	207	209	209
Total sirens-tests	237	237	210	210	210
Indicator value	92.5%	92.5%	93.2%	97.4%	98.3%

Licensee Comments:

4Q/98:

4Q/98:

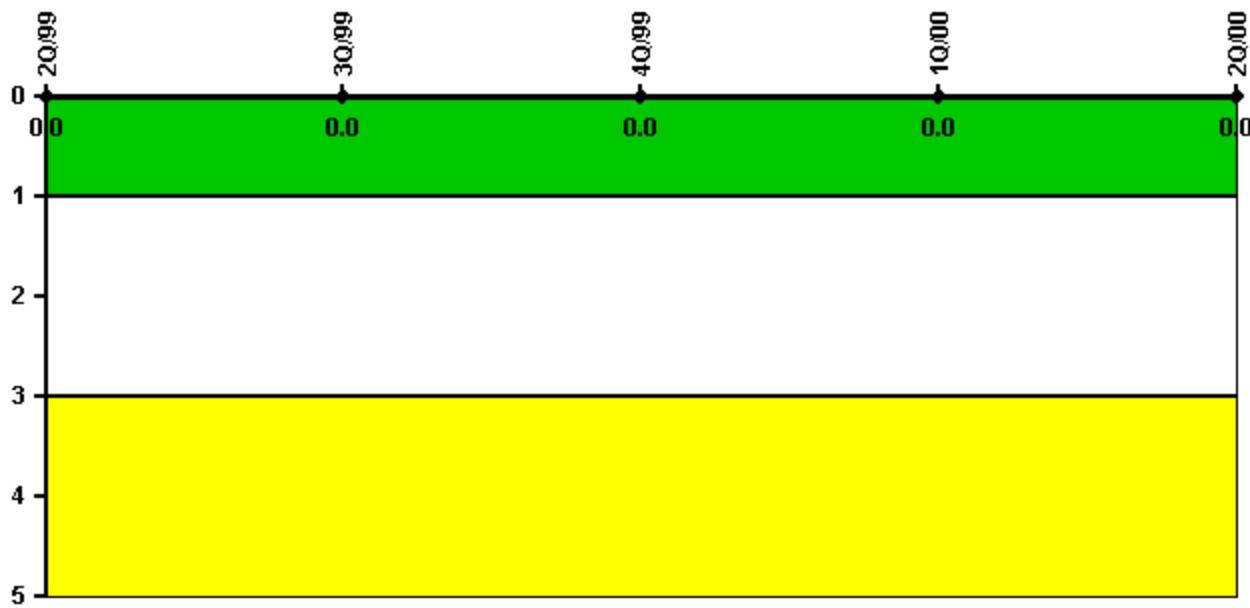
Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

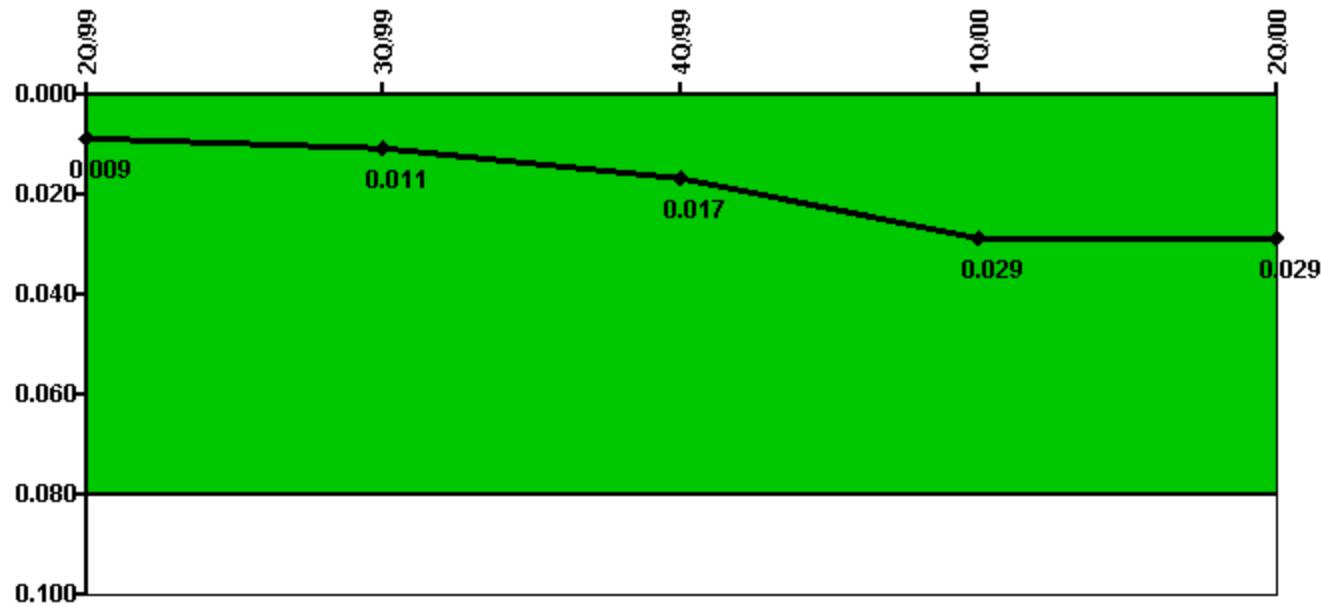
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

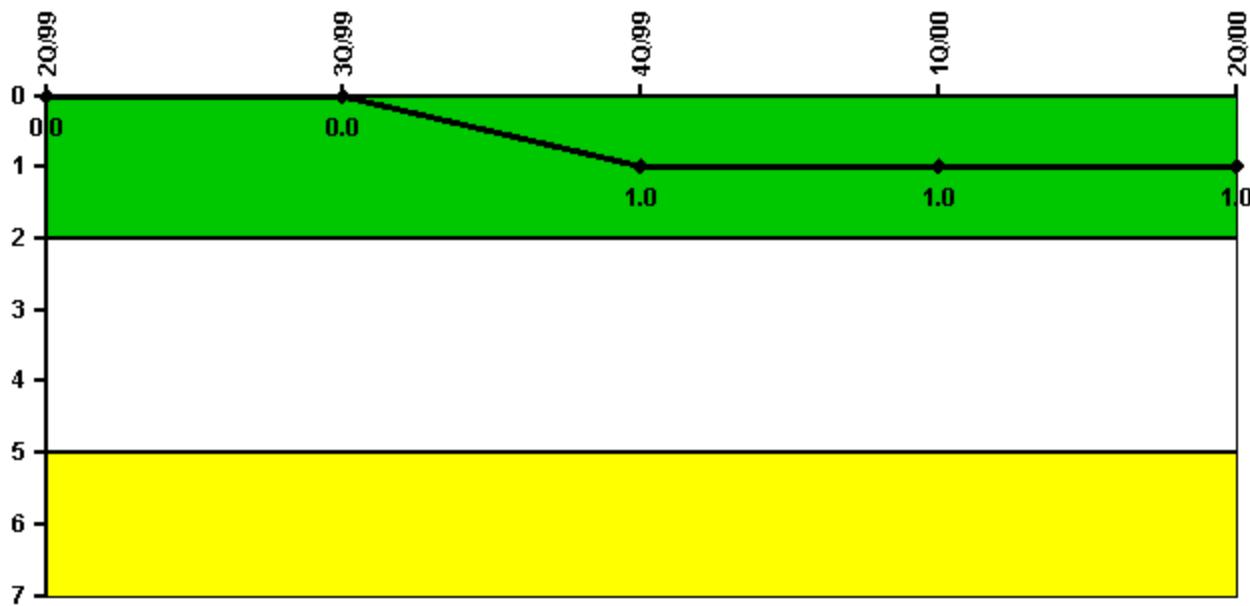
Notes

Protected Area Security Performance Index	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
IDS compensatory hours	32.50	30.80	199.30	364.70	31.80
CCTV compensatory hours	0	3.2	16.7	38.5	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	0.009	0.011	0.017	0.029	0.029

Licensee Comments:

2Q/99: Corrected data submitted 2Q2000 to correct IDS Compensatory Hours. Additional compensatory hours discovered during security log review.

Personnel Screening Program



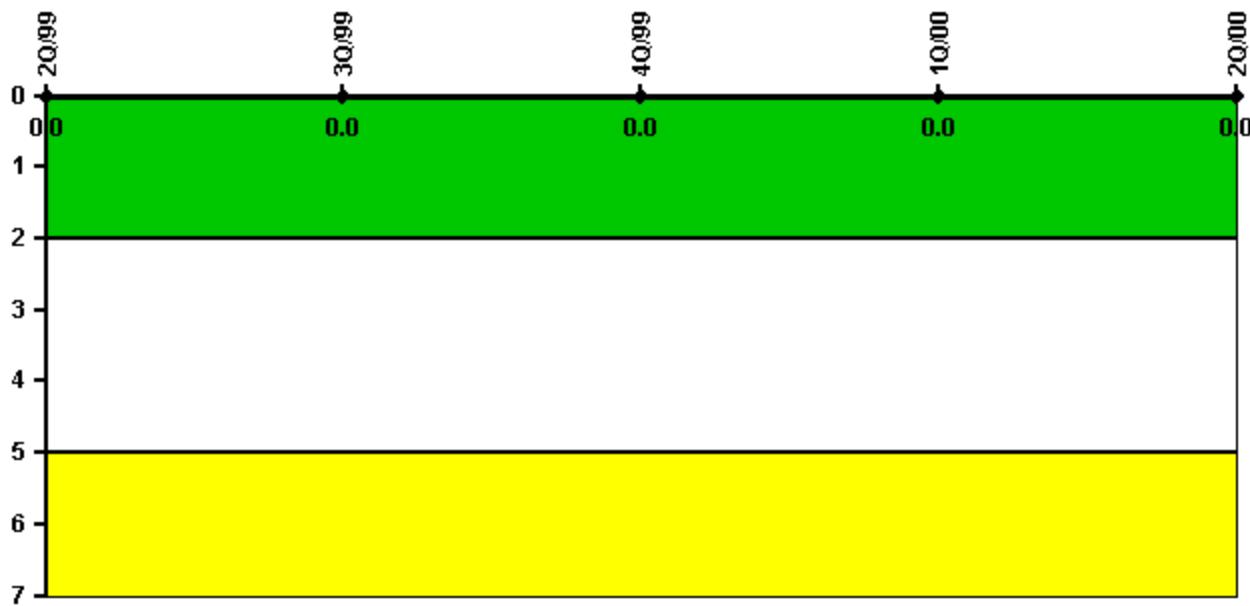
Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Program failures	0	0	1	0	0
Indicator value	0	0	1	1	1

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Program Failures	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none



[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

Last Modified: April 1, 2002

D.C. Cook 2**3Q/2000 Performance Indicators**

Licensee's General Comments: Cook Unit 2 returned to service June 25, 2000 after a 33-month forced outage. Without sufficient operational service, various performance indicators are not calculated.

Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned scrams	0	0	0	0	0
Critical hours	0	0	0	197.0	2208.0
Indicator value	N/A	N/A	N/A	N/A	0

Licensee Comments: none

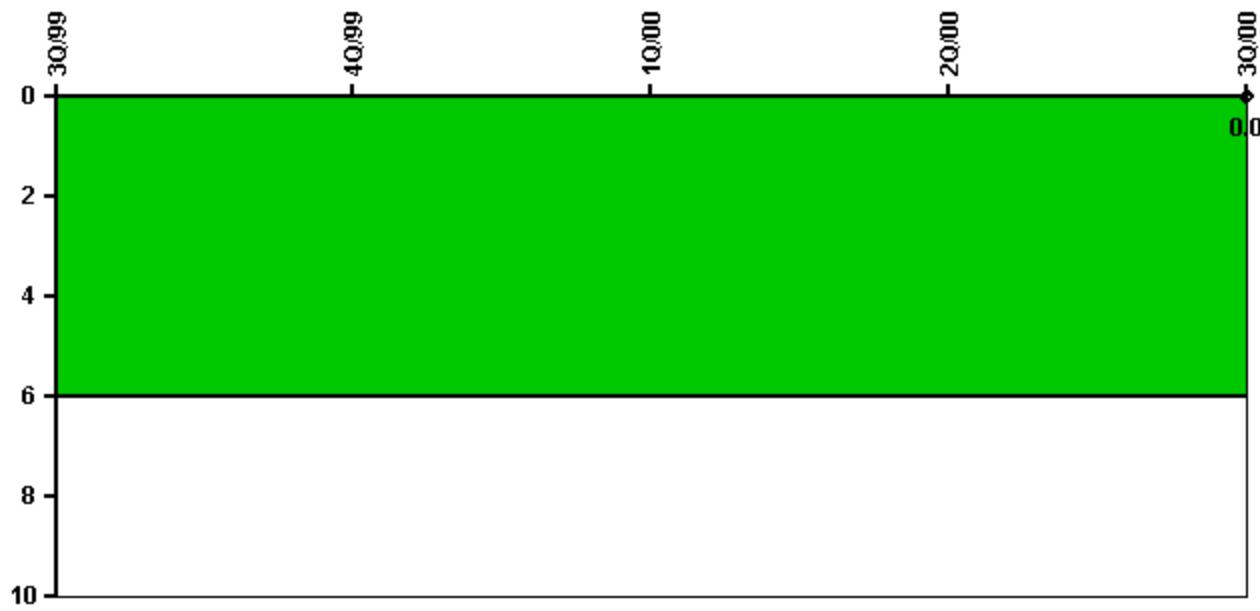
Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Scrams	0	0	0	0	0
Indicator value			0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned power changes	0	0	0	0	0
Critical hours	0	0	0	197.0	2208.0
Indicator value	N/A	N/A	N/A	N/A	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	0	0	0	4.45	8.20
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	2184.00	2208.00
Train 2					
Planned unavailable hours	0	0	0	6.20	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	2184.00	2208.00
Indicator value					

Licensee Comments:

3Q/00: Indicator value is N/A due to having less than 12 quarters of data accumulated.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

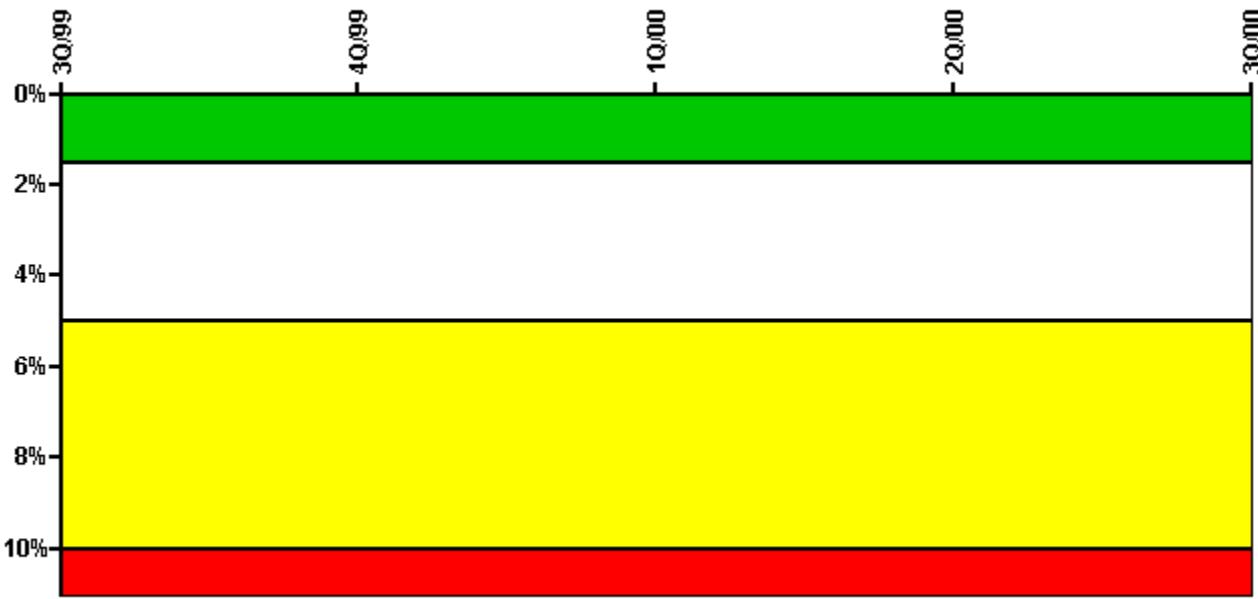
2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, High Pressure Injection System (HPSI)



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)		3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1						
Planned unavailable hours		0	0	0	0	7.50
Unplanned unavailable hours		0	0	0	0	0
Fault exposure hours		0	0	0	0	0
Effective Reset hours		0	0	0	0	0
Required hours		0	0	0	581.00	2208.00
Train 2						
Planned unavailable hours		0	0	0	0	0
Unplanned unavailable hours		0	0	0	0	0
Fault exposure hours		0	0	0	0	0
Effective Reset hours		0	0	0	0	0
Required hours		0	0	0	581.00	2208.00
Train 3						
Planned unavailable hours		0	0	0	0	0

Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	453.60	2208.00
Train 4					
Planned unavailable hours	0	0	0	0	4.97
Unplanned unavailable hours	0	0	0	11.25	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	0	453.60	2208.00
Indicator value					

Licensee Comments:

3Q/00: Indicator value is N/A due to having less than 12 quarters of data accumulated.

3Q/00: Indicator value is N/A due to having less than 12 quarters of data accumulated.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, Heat Removal System (AFW)



Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)		3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1						
Planned unavailable hours		0	0	0	0.98	0
Unplanned unavailable hours		0	0	0	0	0
Fault exposure hours		0	0	0	0	0
Effective Reset hours		0	0	0	0	0
Required hours		0	0	0	454.00	2208.00
Train 2						
Planned unavailable hours		0	0	0	1.10	0
Unplanned unavailable hours		0	0	0	0	0
Fault exposure hours		0	0	0	0	0
Effective Reset hours		0	0	0	0	0
Required hours		0	0	0	454.00	2208.00
Train 3						
Planned unavailable hours		0	0	0	0	0
Unplanned unavailable hours		0	0	0	0	0
Fault exposure hours		0	0	0	78.06	0
Effective Reset hours		0	0	0	0	0
Required hours		0	0	0	454.00	2208.00
Indicator value						

Licensee Comments:

3Q/00: Indicator value is N/A due to having less than 12 quarters of data accumulated.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved

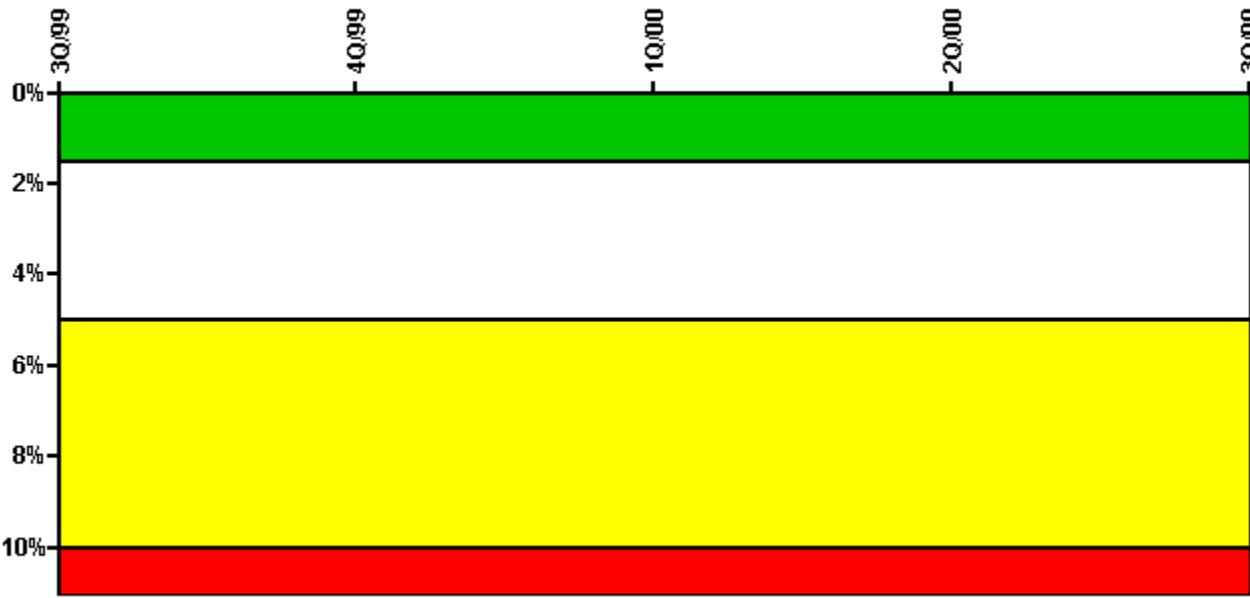
November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System		3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1						
Planned unavailable hours		0	0	0	0	0
Unplanned unavailable hours		0	0	0	0	0
Fault exposure hours		0	0	0	0	0
Effective Reset hours		0	0	0	0	0
Required hours		0	0	0	2184.00	2208.00
Train 2						
Planned unavailable hours		0	0	0	0	0
Unplanned unavailable hours		0	0	0	0	0
Fault exposure hours		0	0	0	0	0
Effective Reset hours		0	0	0	0	0
Required hours		0	0	0	2184.00	2208.00

Indicator value							
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Licensee Comments:

3Q/00: Indicator value is N/A due to having less than 12 quarters of data accumulated.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

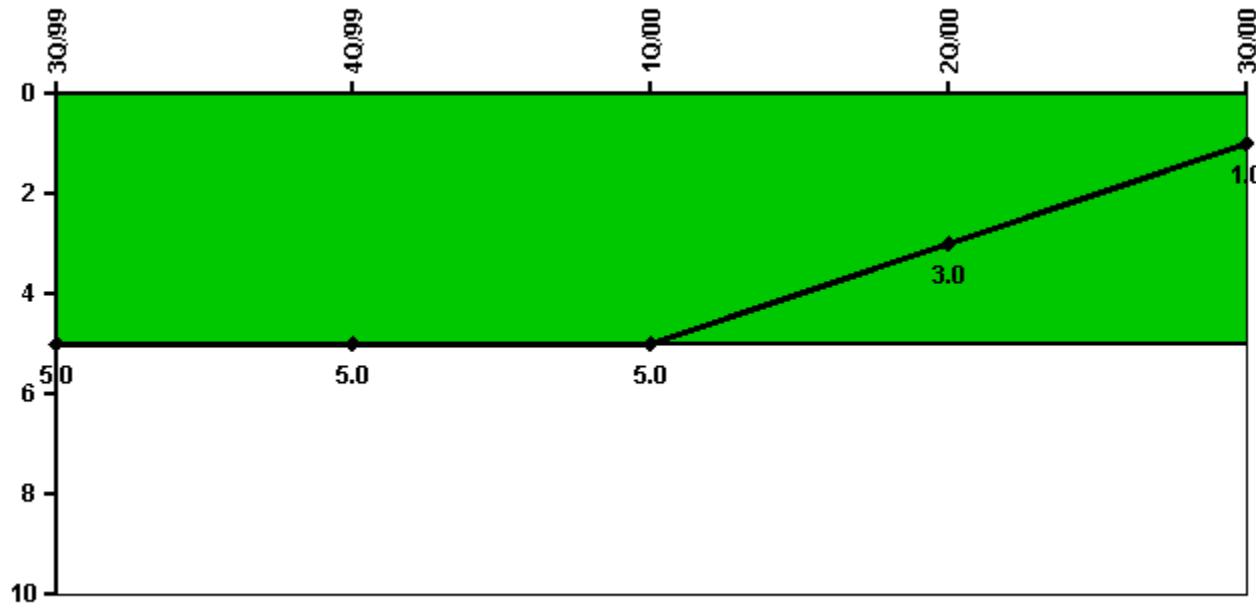
4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Functional Failures (PWR)



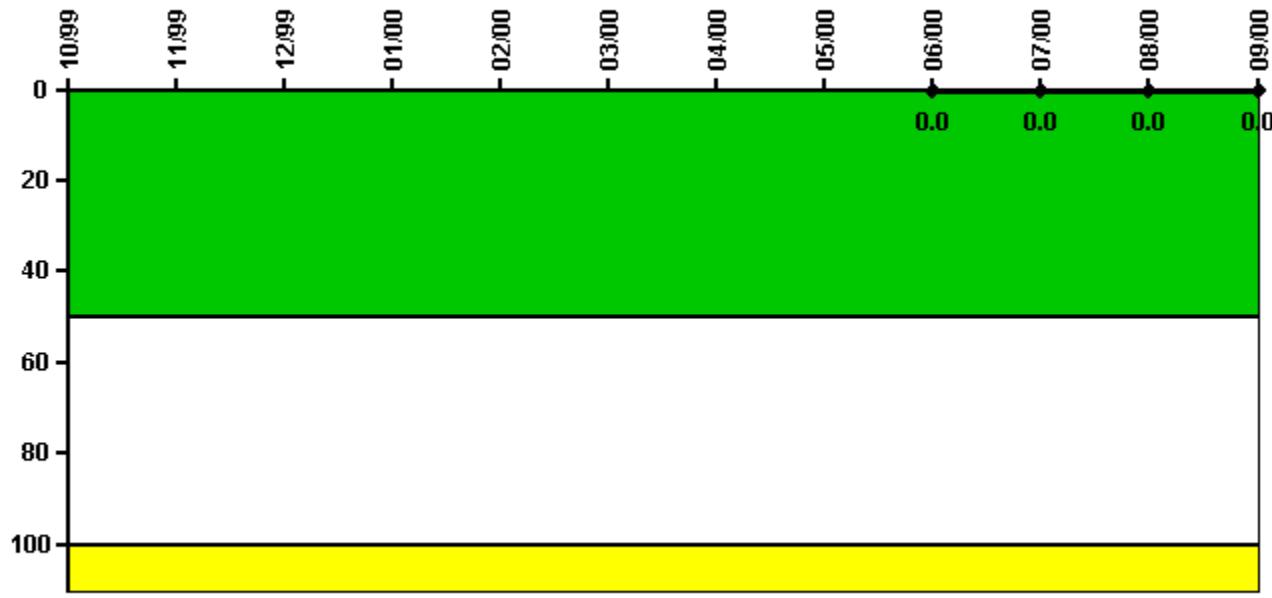
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Safety System Functional Failures	2	0	1	0	0
Indicator value	5	5	5	3	1

Licensee Comments: none

Reactor Coolant System Activity

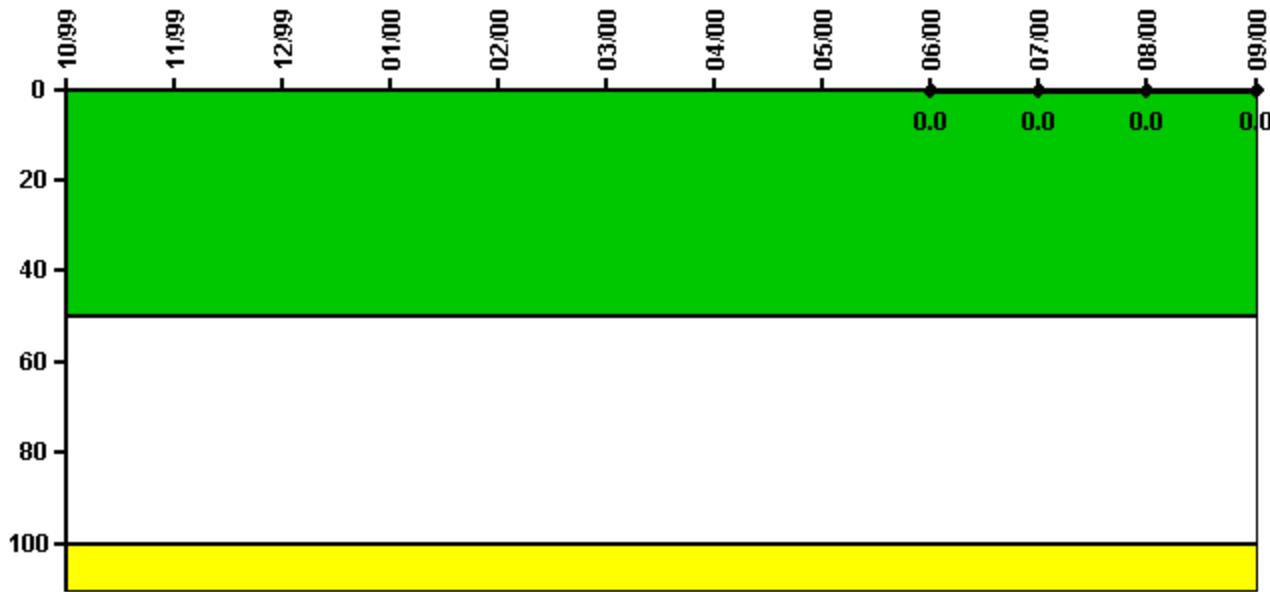


Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity						N/A	N/A	0.000200	0.000311	0.000337	0.000364	
Technical specification limit						1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value						N/A	N/A	0	0	0	0	0

Licensee Comments: none

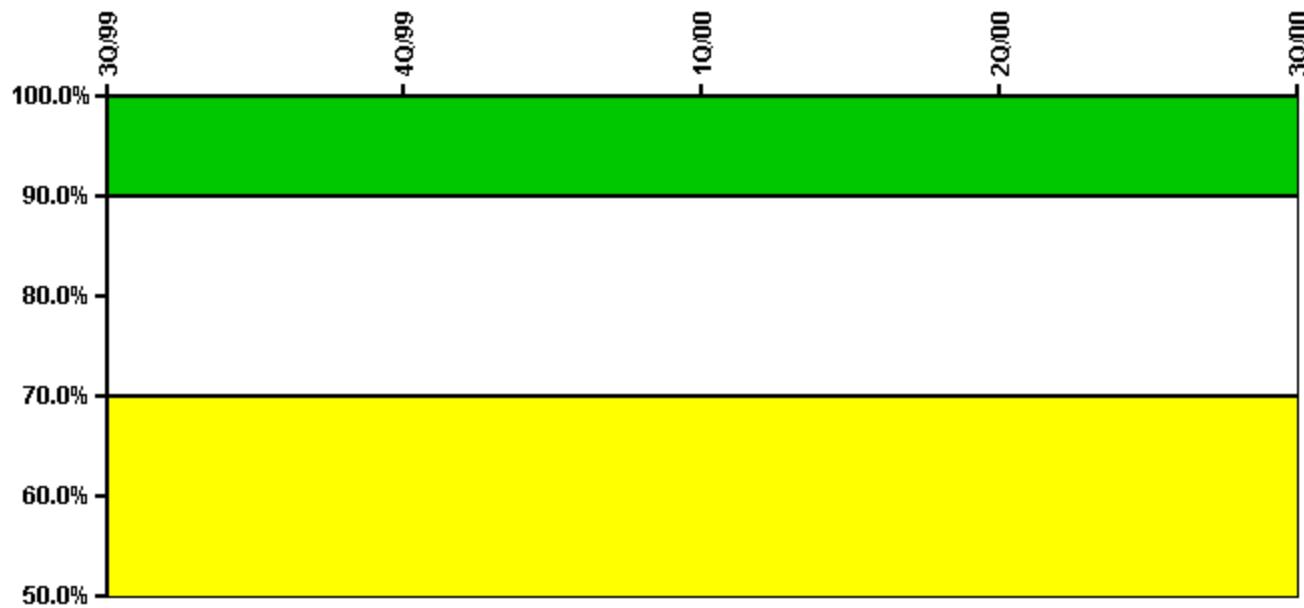
Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage							N/A	N/A	0	0	0	0
Technical specification limit							10.0	10.0	10.0	10.0	10.0	10.0
Indicator value							N/A	N/A	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance

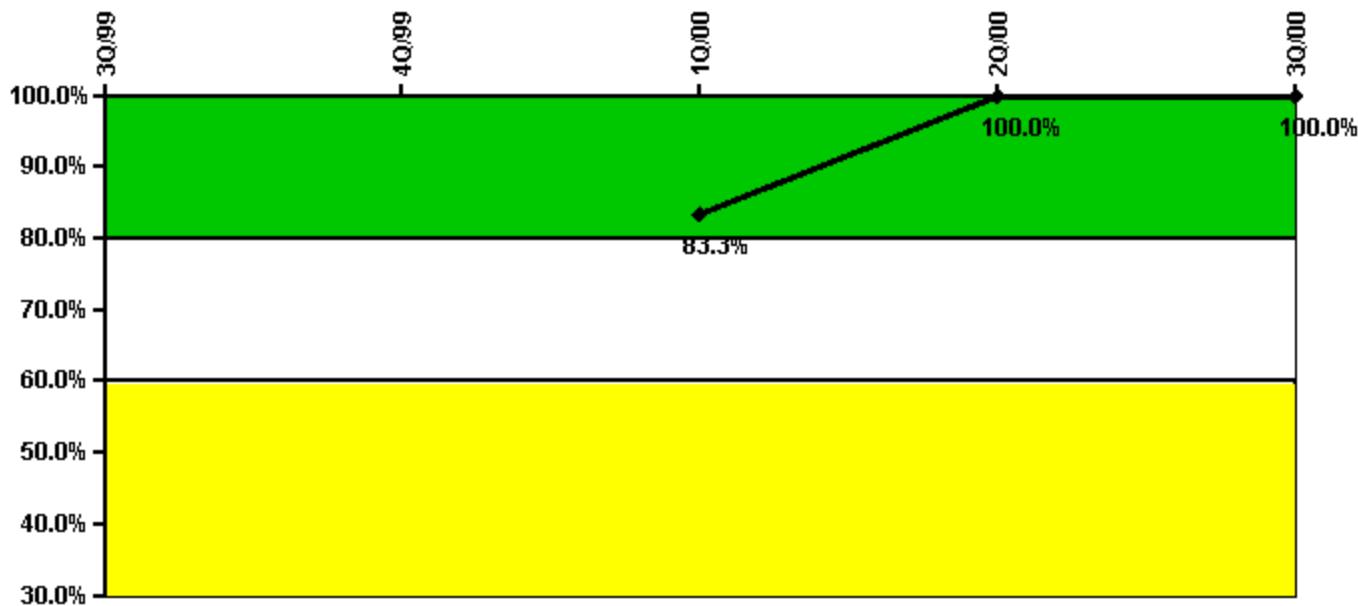
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful opportunities	6.0	24.0	25.0	56.0	54.0
Total opportunities	6.0	24.0	25.0	59.0	55.0
Indicator value					

Licensee Comments:

3Q/00: Data is unavailable prior to 3Q99. The unavailable data causes the indicator to calculate N/A.

ERO Drill Participation

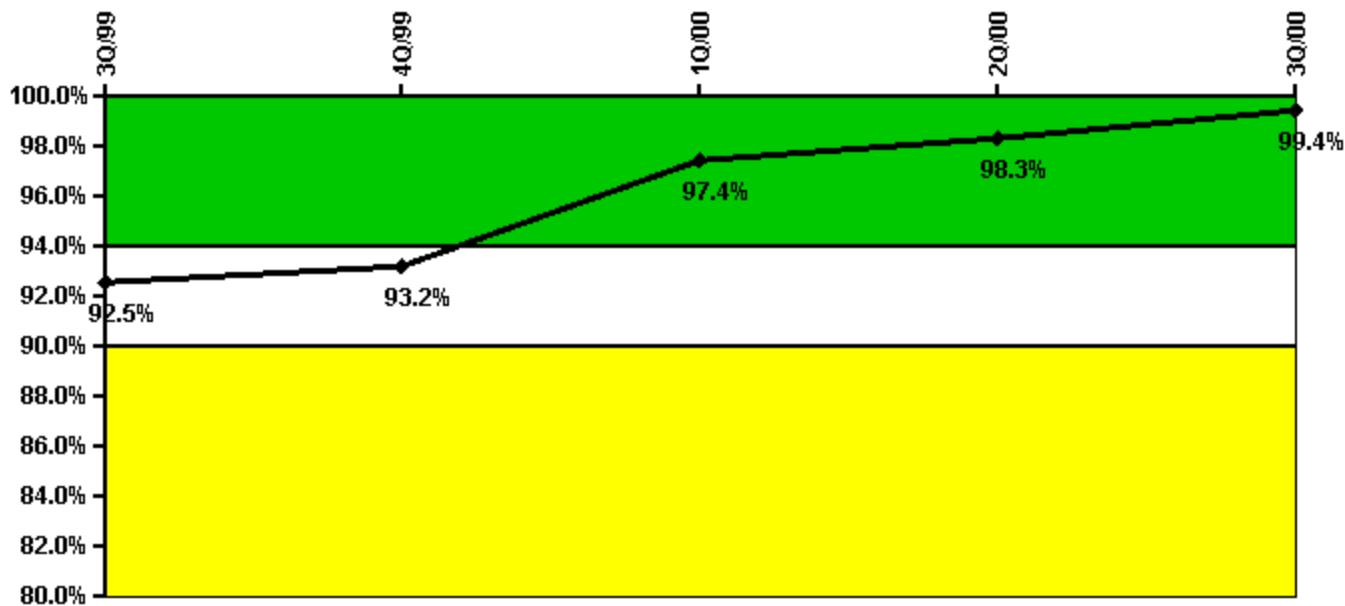
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Participating Key personnel			35.0	46.0	48.0
Total Key personnel			42.0	46.0	48.0
Indicator value			83.3%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

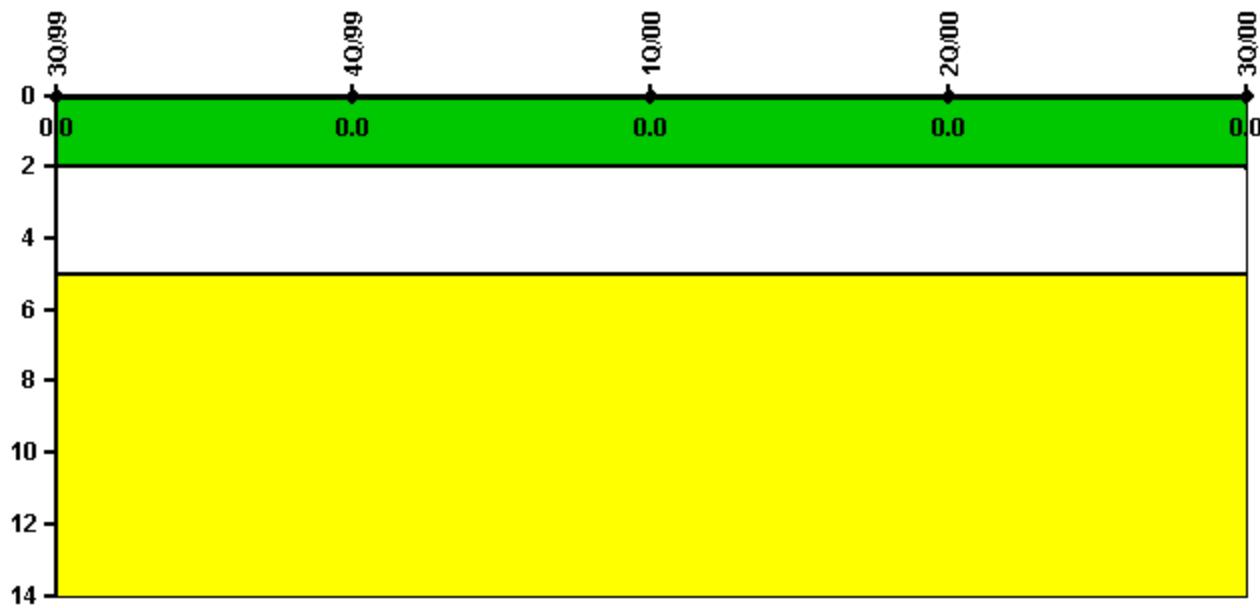
Notes

Alert & Notification System	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful siren-tests	227	207	209	209	210
Total sirens-tests	237	210	210	210	210
Indicator value	92.5%	93.2%	97.4%	98.3%	99.4%

Licensee Comments:

3Q/00: A change report was submitted for data submitted from the 4Q98 to 2Q00. An evaluation of the previously submitted data revealed that the siren test report did not clearly identify three sirens and the test acceptance was inaccurately counted. The changed data causes the indicator to enter white for the third and fourth quarter of 1999. This was due to heavy icing on the sirens during January and March of 1999.

4Q/98:

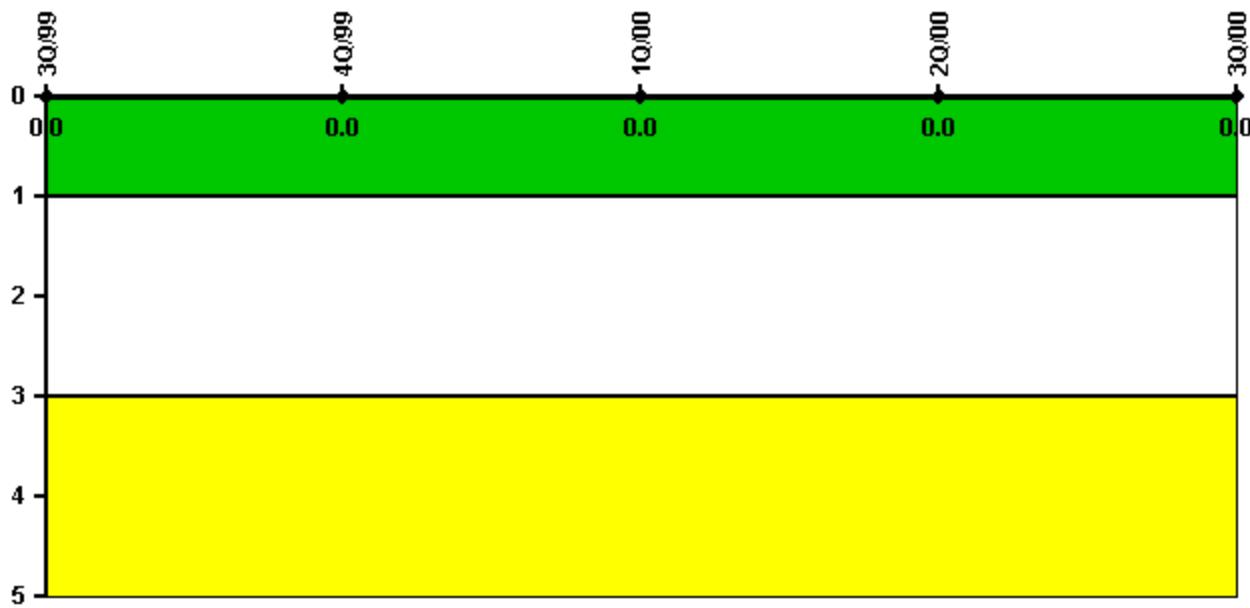
Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

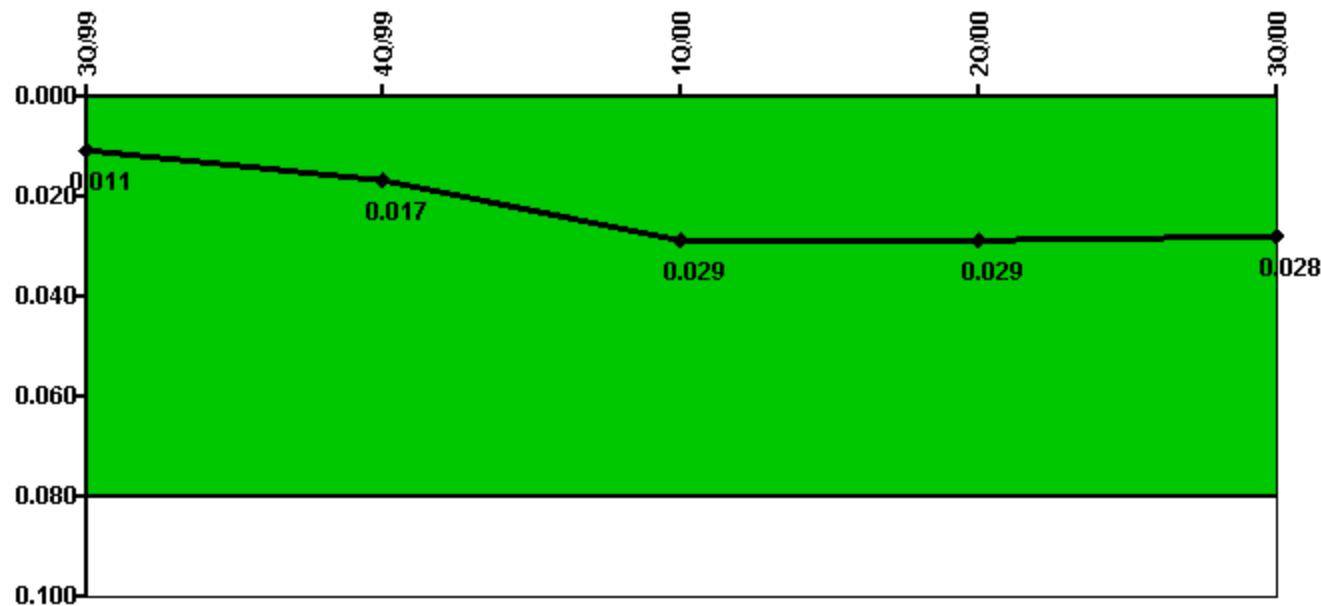
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



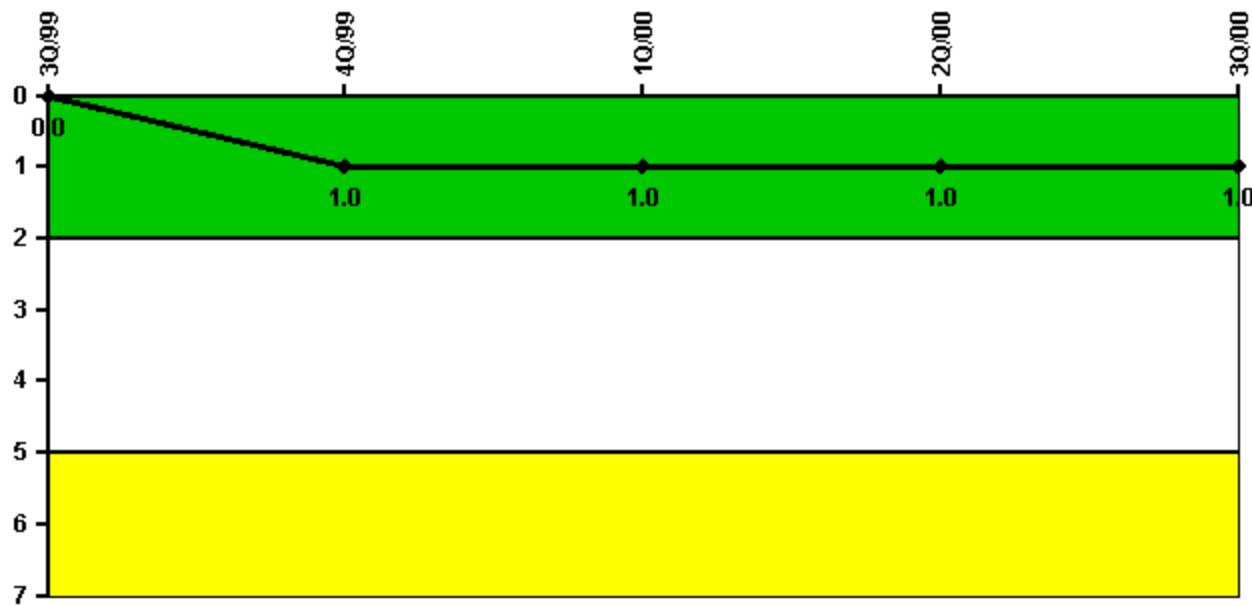
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
IDS compensatory hours	30.80	199.30	364.70	31.80	4.05
CCTV compensatory hours	3.2	16.7	38.5	0	0.1
IDS normalization factor	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	0.011	0.017	0.029	0.029	0.028

Licensee Comments: none

Personnel Screening Program

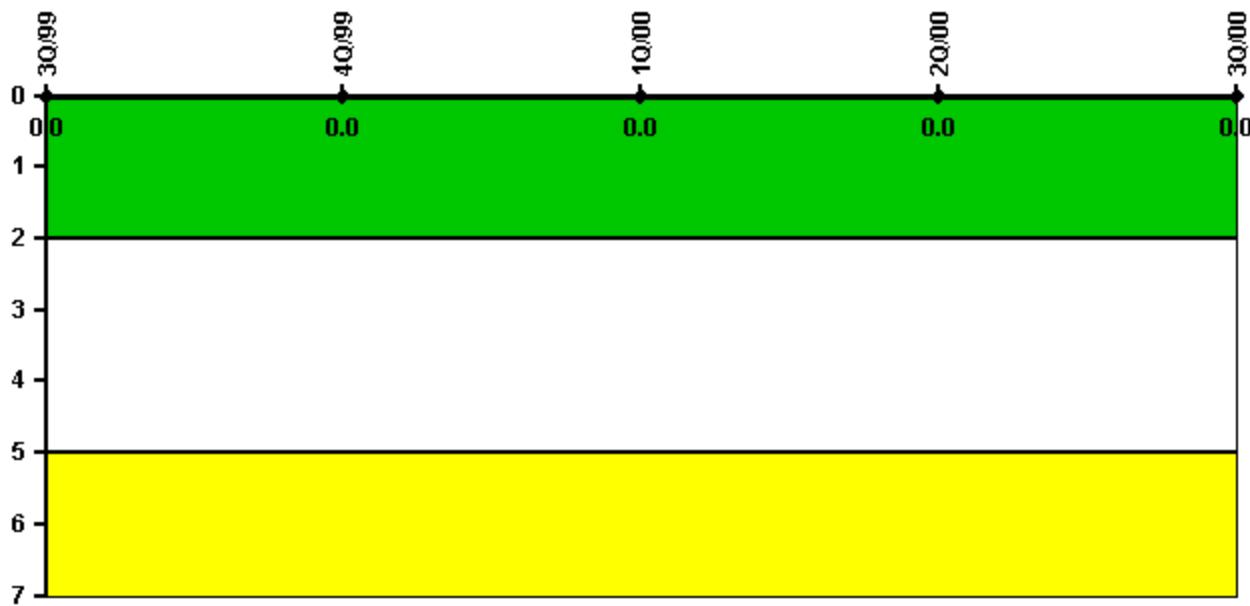


Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Program failures	0	1	0	0	0
Indicator value	0	1	1	1	1

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Program Failures	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none



[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 29, 2002

D.C. Cook 2**4Q/2000 Performance Indicators**

Licensee's General Comments: Cook Unit 2 returned to service June 25, 2000 after a 33-month forced outage. Without sufficient operational service, various performance indicators are not calculated.

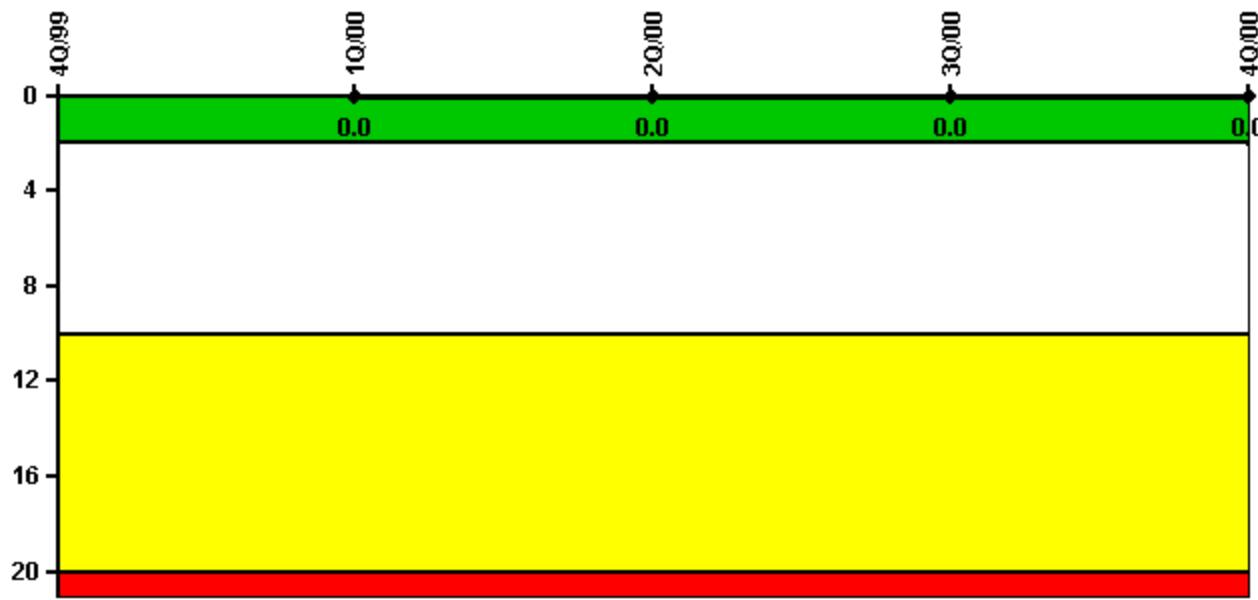
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned scrams	0	0	0	0	0
Critical hours	0	0	197.0	2208.0	2209.0
Indicator value	N/A	N/A	N/A	0	0

Licensee Comments: none

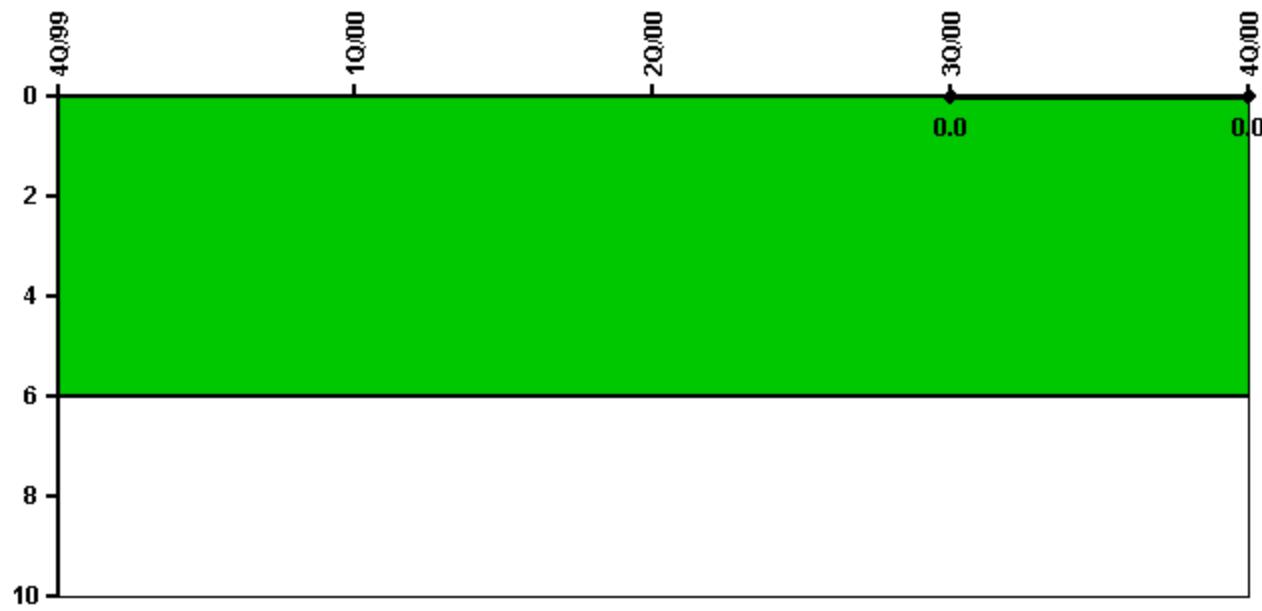
Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Scrams	0	0	0	0	0
Indicator value		0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned power changes	0	0	0	0	0
Critical hours	0	0	197.0	2208.0	2209.0
Indicator value	N/A	N/A	N/A	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	0	0	4.45	8.20	20.78
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	2184.00	2208.00	2209.00
Train 2					
Planned unavailable hours	0	0	6.20	0	13.30
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	2184.00	2208.00	2209.00
Indicator value					

Licensee Comments:

4Q/00: Change made to add planned unavailable hours to train 1EDG to account for CO2 testing.

4Q/00: Indicator value is N/A due to having less than 12 quarters of data accumulated.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, High Pressure Injection System (HPSI)



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	0	0	0	7.50	9.18
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	581.00	2208.00	2209.00
Train 2					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	581.00	2208.00	2209.00
Train 3					

Planned unavailable hours	0	0	0	0	3.72
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	453.60	2208.00	2209.00
Train 4					
Planned unavailable hours	0	0	0	4.97	0
Unplanned unavailable hours	0	0	11.25	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	453.60	2208.00	2209.00
Indicator value					

Licensee Comments:

4Q/00: A change report was submitted for 2Q00 and 3Q00. The change reports corrected: 1) 2Q00 hours required for Trains 3 & 4; 2) 2Q00 unplanned unavailable hours for Train 4; and 3) 3Q00 planned unavailable hours for Train 1. Indicator value is N/A due to having less than 12 quarters of data accumulated.

3Q/00: Indicator value is N/A due to having less than 12 quarters of data accumulated.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

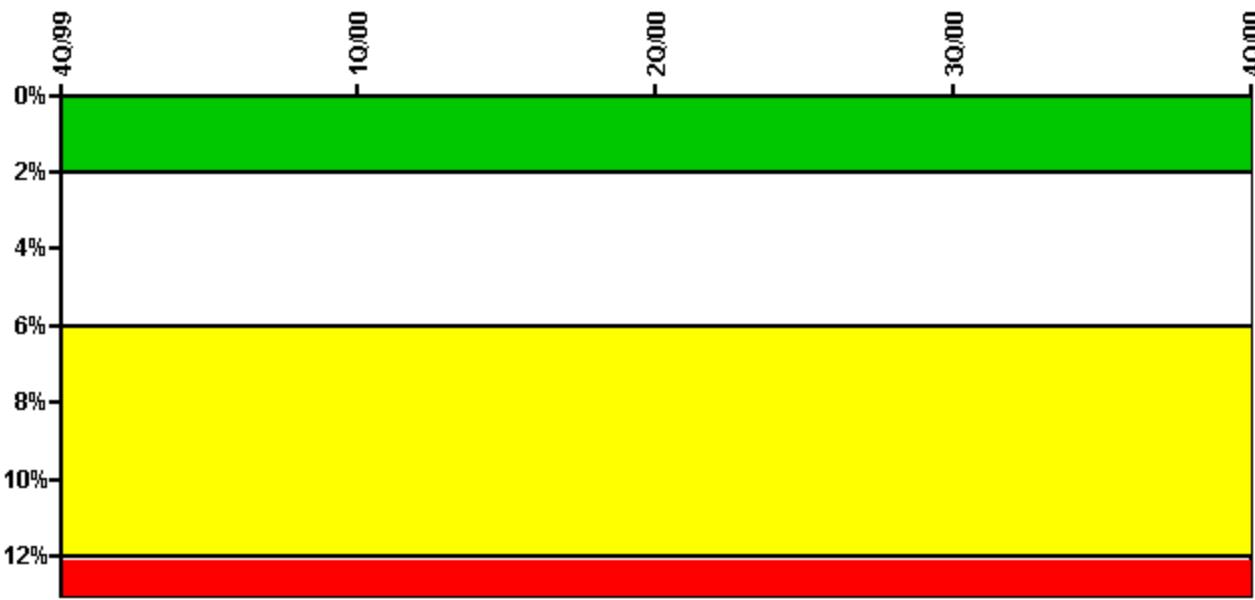
4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, Heat Removal System (AFW)



Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	0	0	0.98	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	454.00	2208.00	2209.00
Train 2					
Planned unavailable hours	0	0	1.10	0	10.41
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	454.00	2208.00	2209.00
Train 3					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	78.06	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	0	454.00	2208.00	2209.00
Indicator value					

Licensee Comments:

4Q/00: Change report submitted to remove unplanned unavailable hours for the TDAFP as the result of an evaluation performed that determined the TDAFP was available. Also, the 10.41 hours of planned unavailable hours has been moved to train 2 to correct a train reporting error.

4Q/00: Indicator value is N/A due to having less than 12 quarters of data accumulated.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved

November 15, 2001.

4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System		4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1						
Planned unavailable hours		0	0	0	0	11.70
Unplanned unavailable hours		0	0	0	0	0
Fault exposure hours		0	0	0	0	0
Effective Reset hours		0	0	0	0	0
Required hours		0	0	2184.00	2208.00	2209.00
Train 2						
Planned unavailable hours		0	0	0	0	0
Unplanned unavailable hours		0	0	0	0	0
Fault exposure hours		0	0	0	0	0
Effective Reset hours		0	0	0	0	0

Required hours	0	0	2184.00	2208.00	2209.00
Indicator value					

Licensee Comments:

4Q/00: Indicator value is N/A due to having less than 12 quarters of data accumulated.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

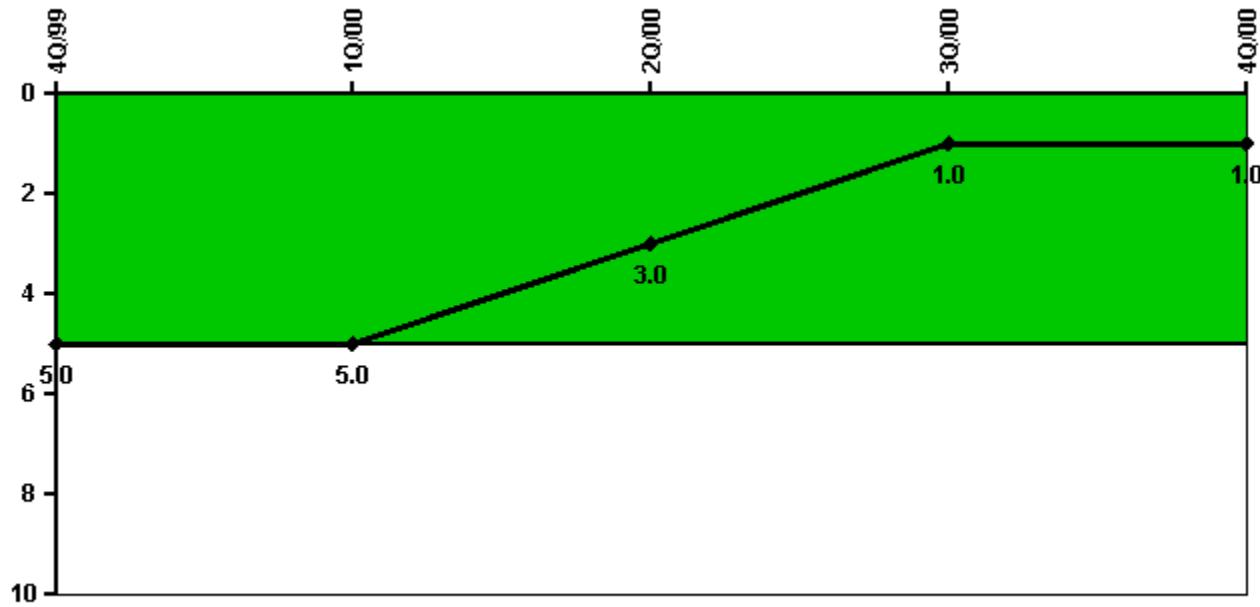
4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

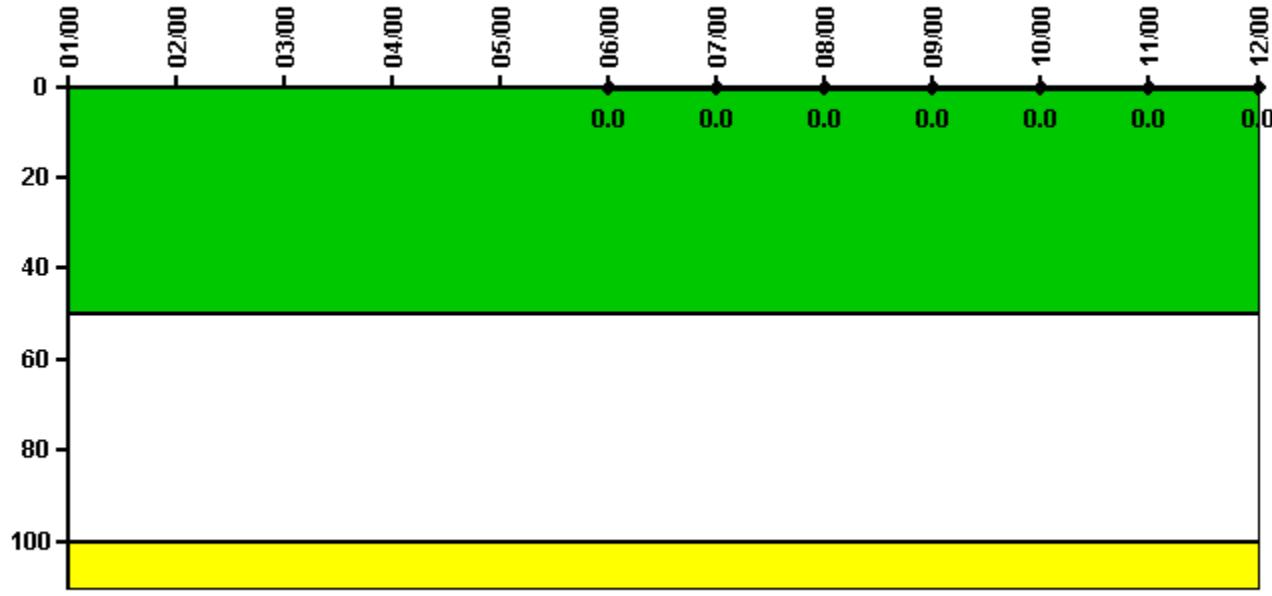
Notes

Safety System Functional Failures (PWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Safety System Functional Failures	0	1	0	0	0

Indicator value	5	5	3	1	1
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Licensee Comments: none

Reactor Coolant System Activity



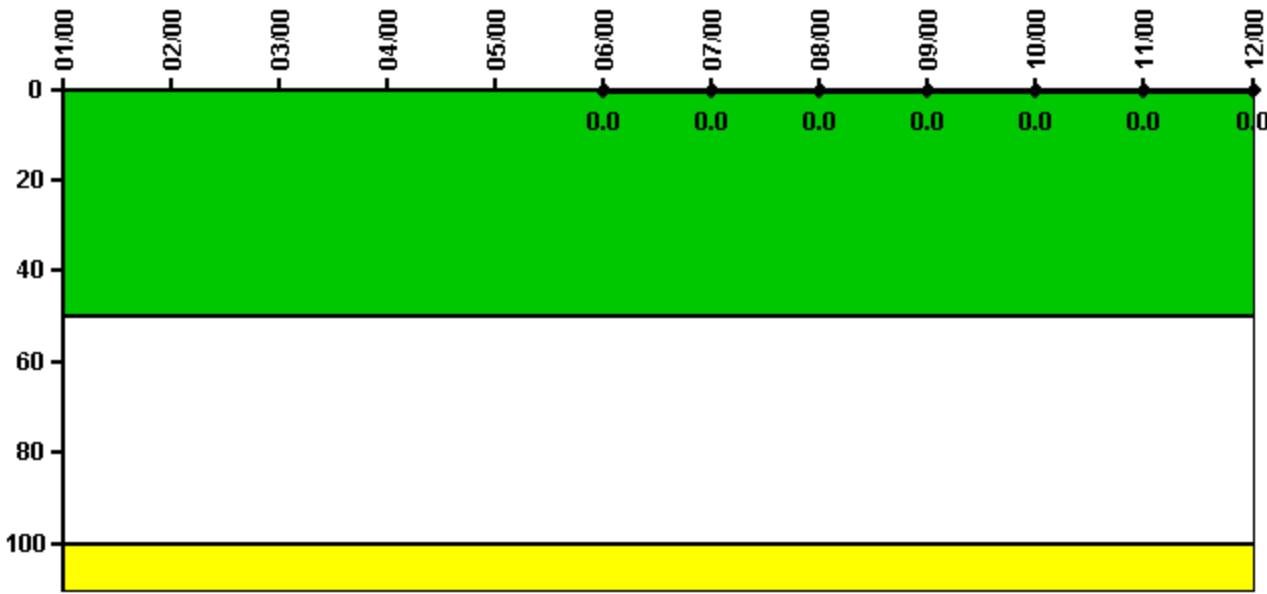
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum activity				N/A	N/A	0.000200	0.000311	0.000337	0.000364	0.000363	0.000386	0.000370
Technical specification limit				1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value				N/A	N/A	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage

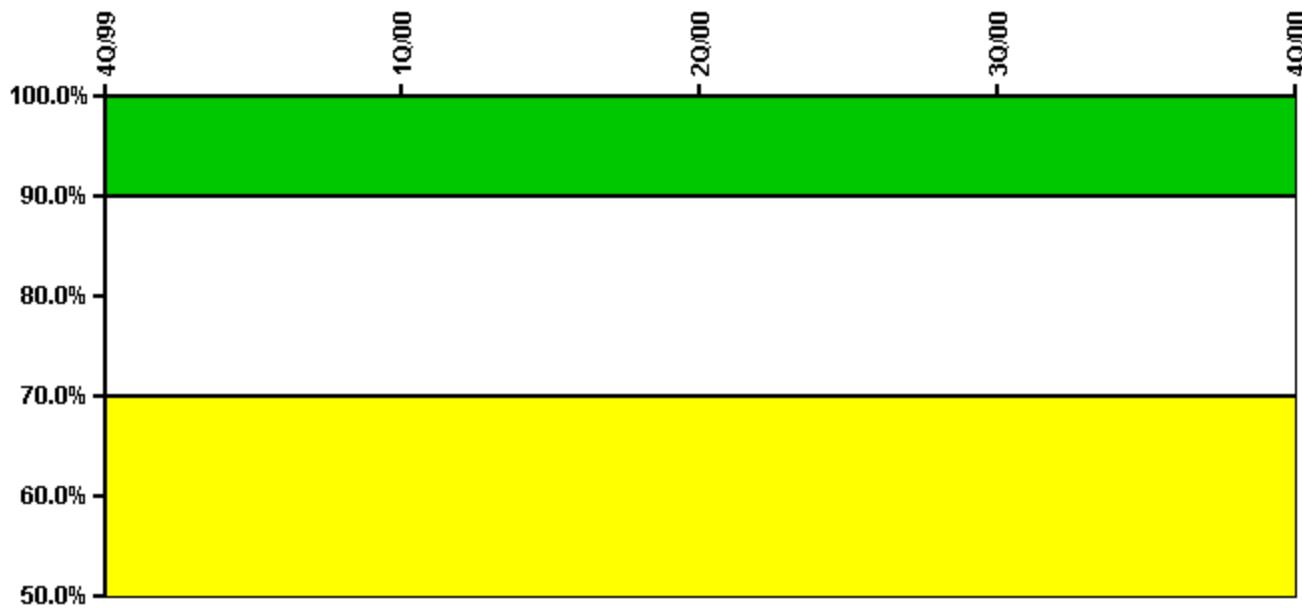


Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage				N/A	N/A	0	0	0	0	0	0	0
Technical specification limit				10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value				N/A	N/A	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance

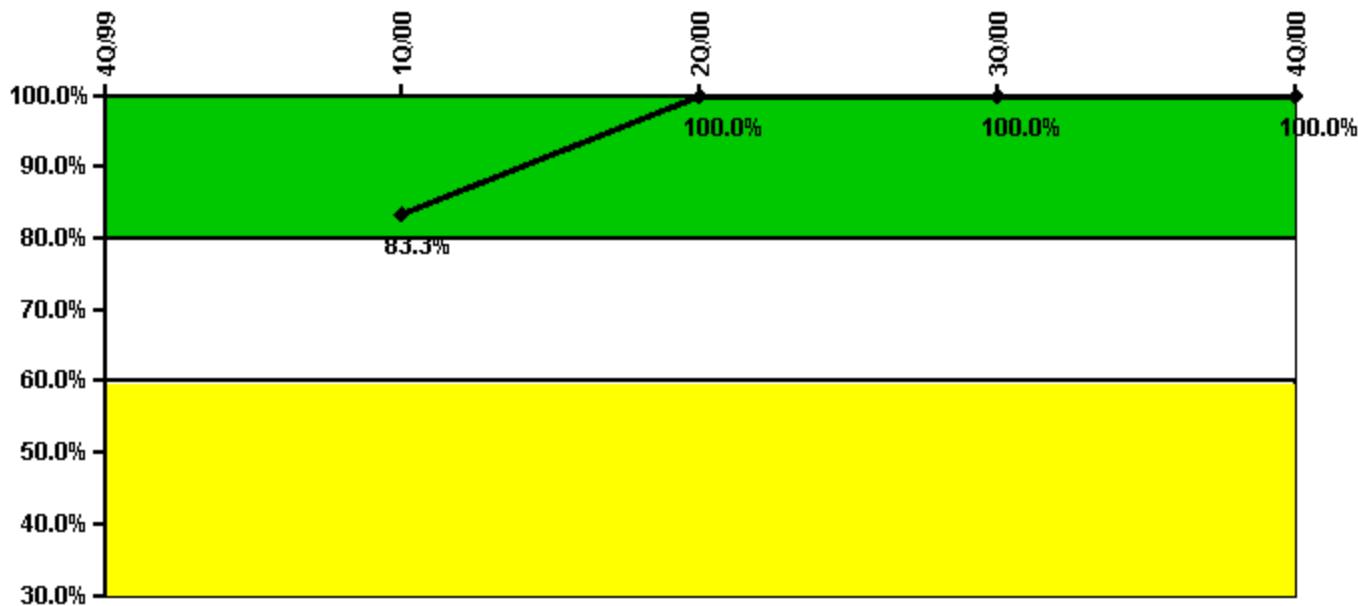
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Successful opportunities	24.0	25.0	56.0	54.0	24.0
Total opportunities	24.0	25.0	59.0	55.0	26.0
Indicator value					

Licensee Comments:

4Q/00: Unable to generate performance data prior to Q3/1999. Records are unavailable to extract the information.

ERO Drill Participation

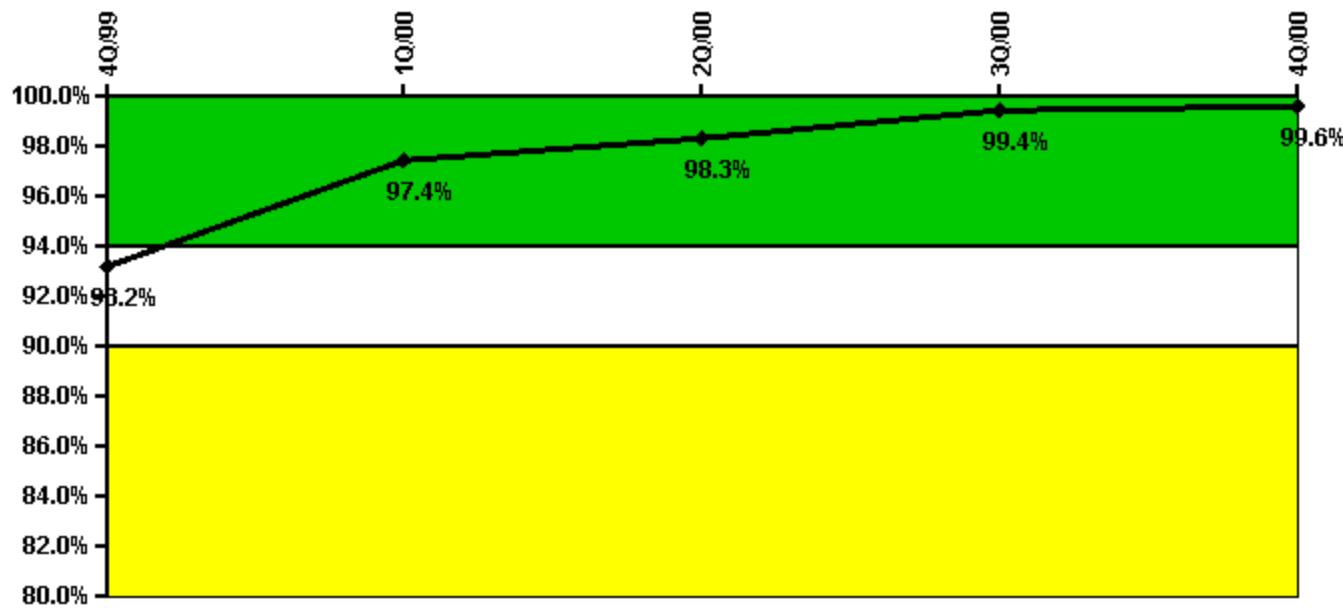
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Participating Key personnel		35.0	46.0	48.0	50.0
Total Key personnel		42.0	46.0	48.0	50.0
Indicator value		83.3%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System

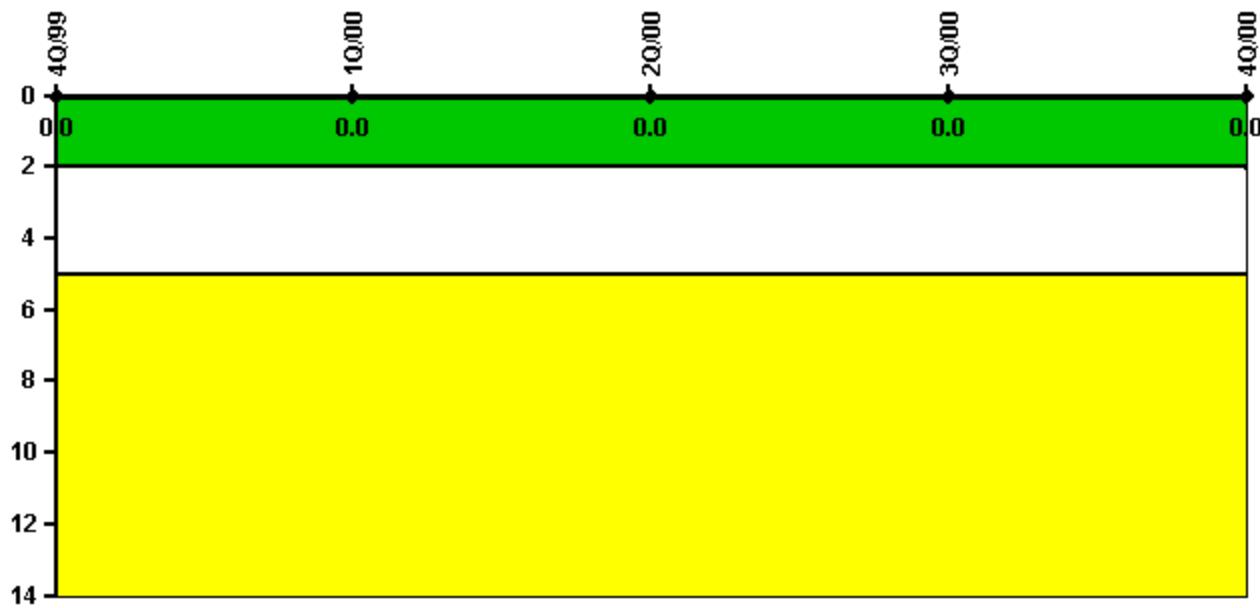


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Successful siren-tests	207	209	209	210	209
Total sirens-tests	210	210	210	210	210
Indicator value	93.2%	97.4%	98.3%	99.4%	99.6%

Licensee Comments: none

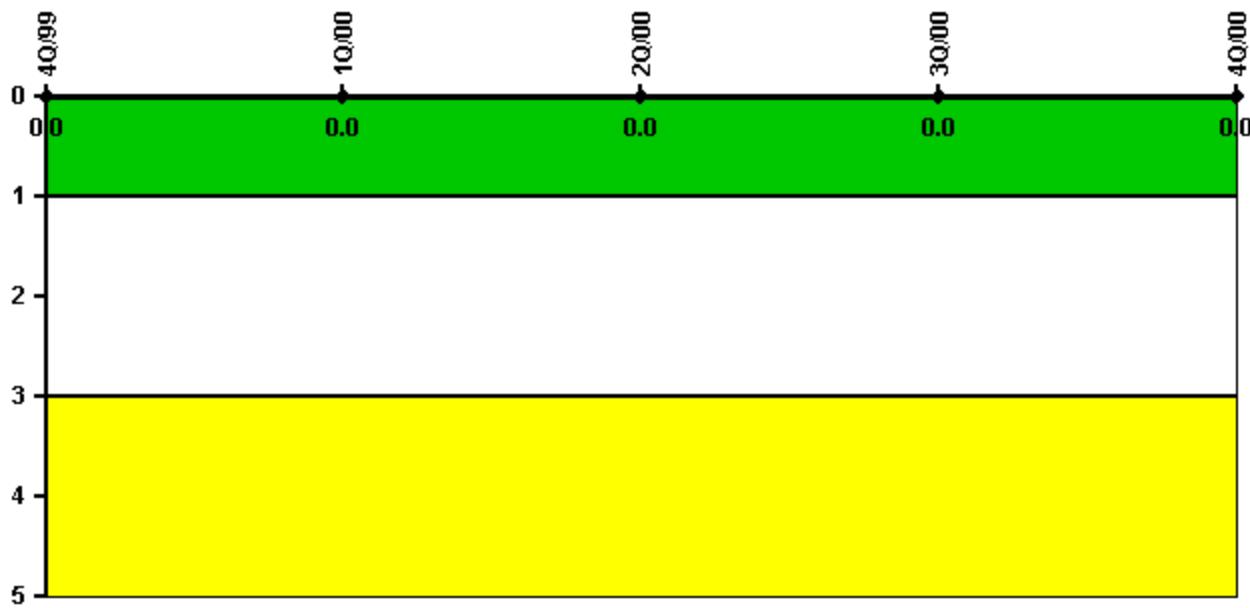
Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

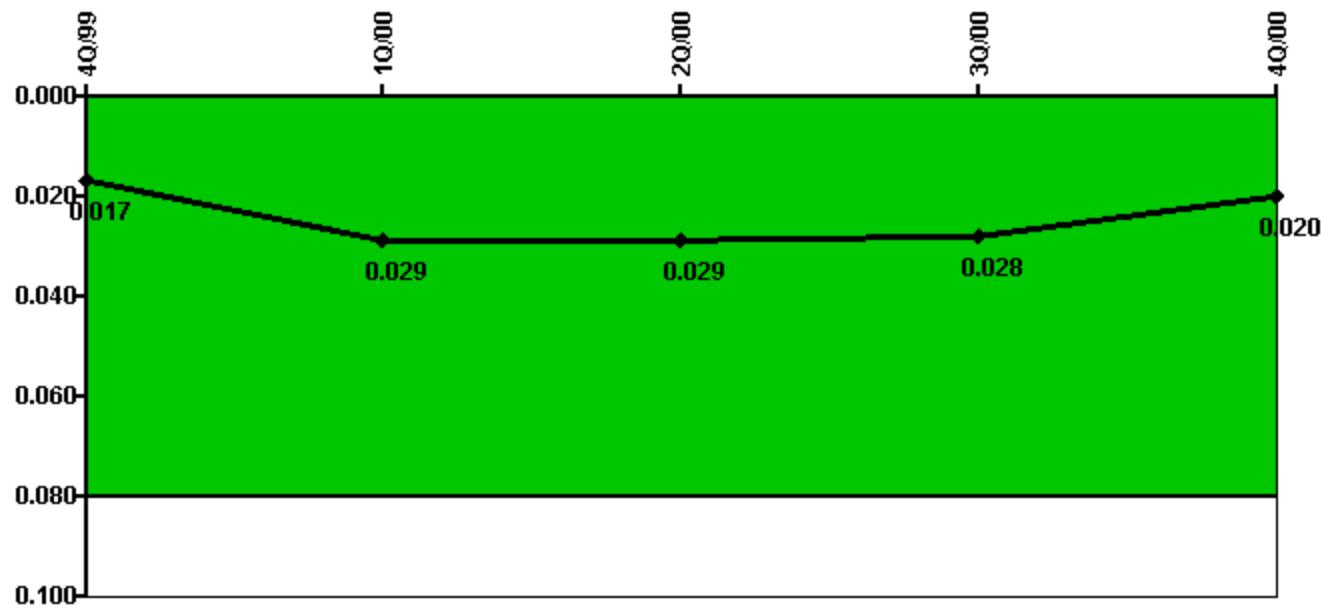
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



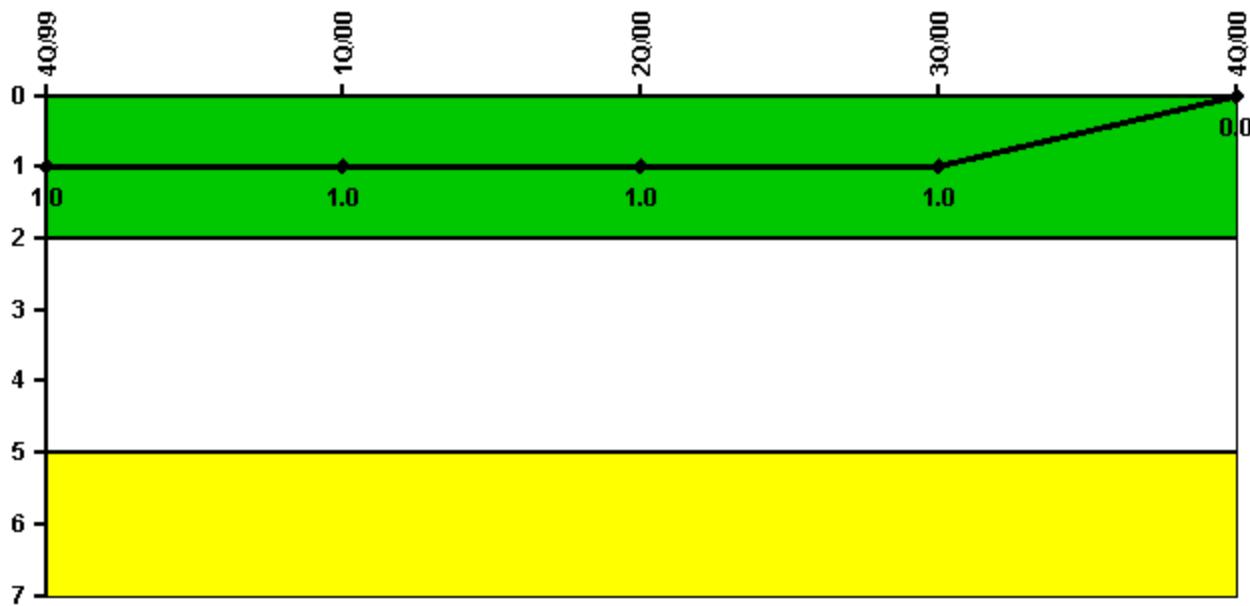
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
IDS compensatory hours	199.30	364.70	31.80	4.05	40.38
CCTV compensatory hours	16.7	38.5	0	0.1	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	0.017	0.029	0.029	0.028	0.020

Licensee Comments: none

Personnel Screening Program



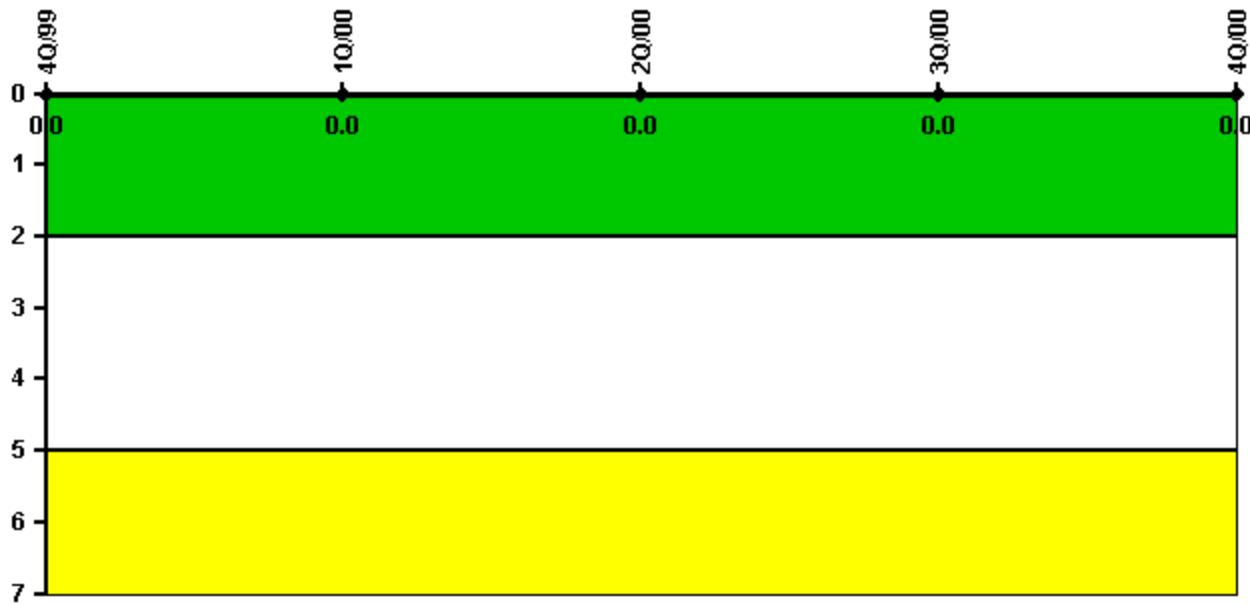
Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Program failures	1	0	0	0	0
Indicator value	1	1	1	1	0

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Program Failures	0	0	0	0	0
Indicator value	0	0	0	0	0

Licensee Comments: none



[PI Summary](#) | [Inspection Findings Summary](#) | [Action Matrix Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 28, 2002

D.C. Cook 2**1Q/2001 Performance Indicators**

Licensee's General Comments: Cook Unit 2 returned to service June 25, 2000 after a 33-month forced outage. Without sufficient operational service, various performance indicators are not calculated.

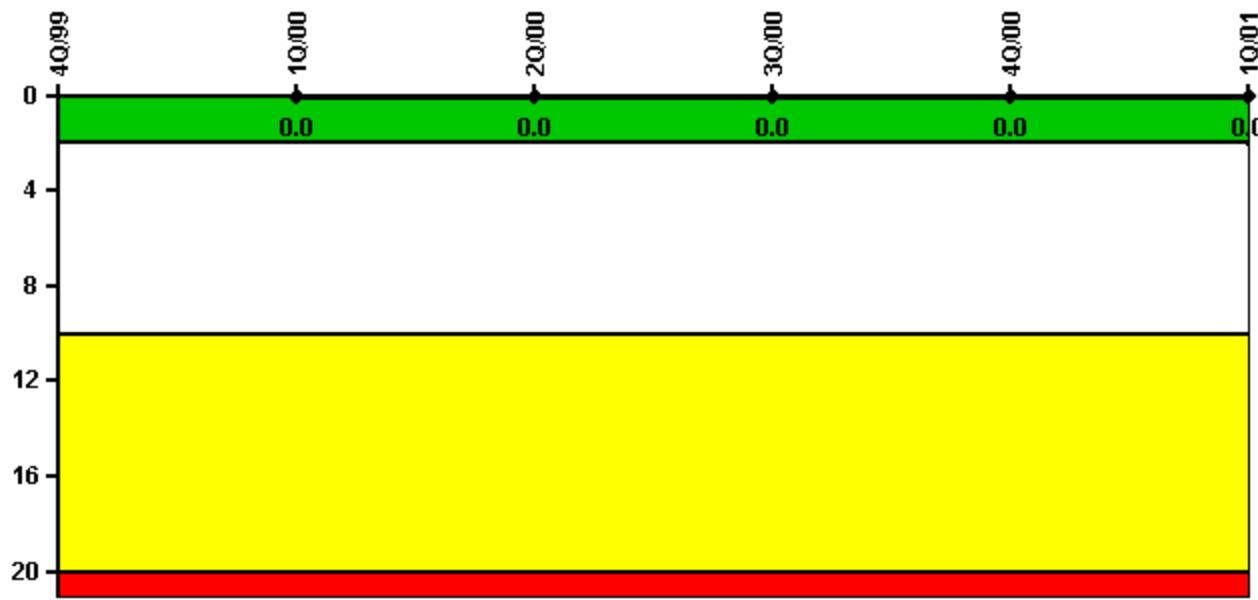
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned scrams	0	0	0	0	0	0
Critical hours	0	0	197.0	2208.0	2209.0	2076.0
Indicator value	N/A	N/A	N/A	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

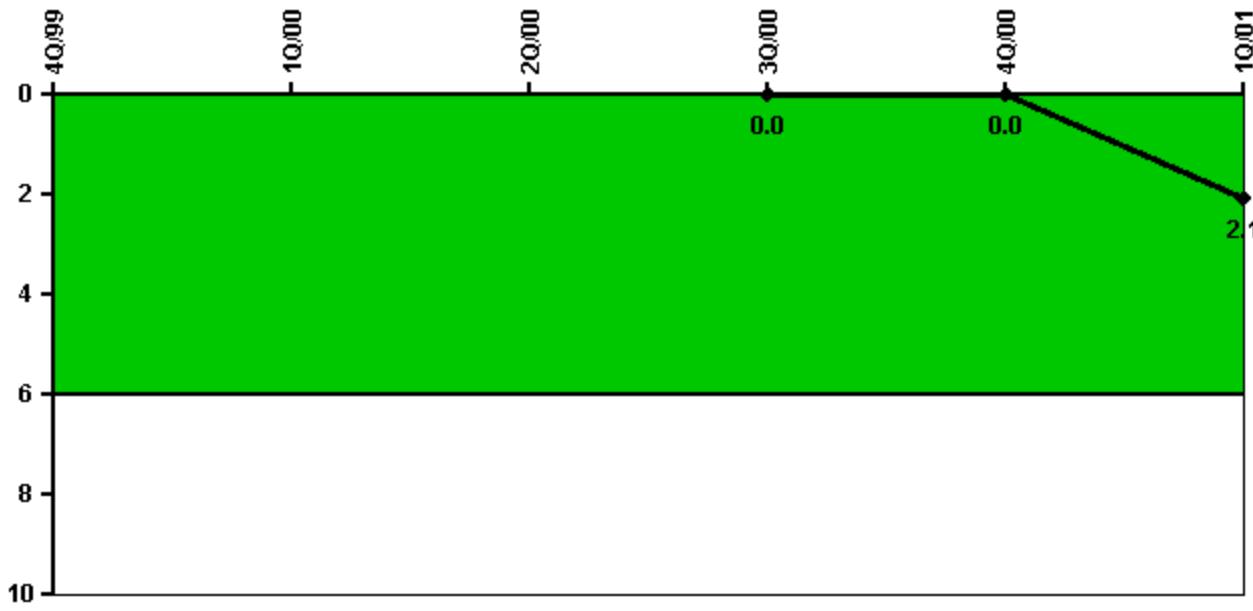
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Scrams	0	0	0	0	0	0
Indicator value		0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

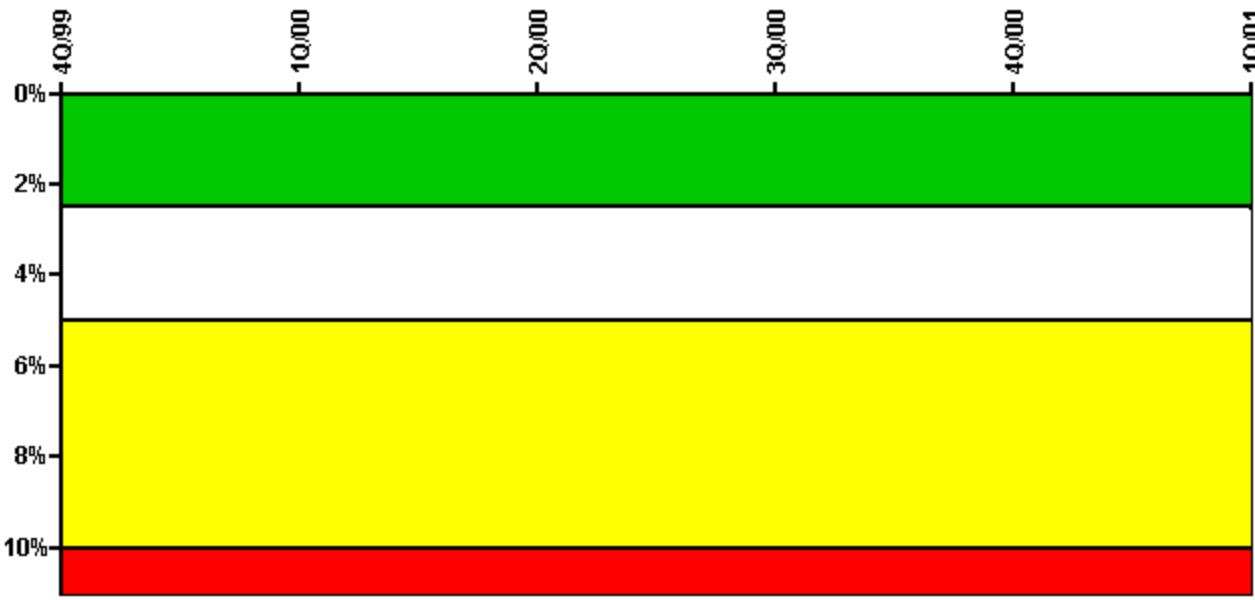
Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned power changes	0	0	0	0	0	2.0
Critical hours	0	0	197.0	2208.0	2209.0	2076.0
Indicator value	N/A	N/A	N/A	0	0	2.1

Licensee Comments:

1Q/01: Unit 2 required 2 unplanned power reductions. On 1/22/01, a Technical Specification required shutdown was initiated due to inoperable Shutdown Rod Bank C and was halted at 25% reactor power when operability was declared. On 1/23/01, a Technical Specification required shutdown was completed due to inoperable Shutdown Rod Bank D. Shutdown Rod Bank C and D inoperability was caused by loose electrical connections in the Rod Control circuitry. The loose connections would not have prevented the Rod Banks from inserting in response to a reactor trip. The loose connections have been repaired and preventive maintenance requirements to periodically verify the connections have been established.

Safety System Unavailability, Emergency AC Power



Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0	0	4.45	8.20	20.78	0.47
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	0	0	2184.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	0	0	6.20	0	13.30	27.25
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	0	0	2184.00	2208.00	2209.00	2160.00
Indicator value						

Licensee Comments:

1Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated.

4Q/00: Change made to add planned unavailable hours to train 1EDG to account for CO2 testing.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, High Pressure Injection System (HPSI)



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0	0	0	7.50	9.18	0
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	0	0	581.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	0	0	0	0	0	16.65
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	0	0	581.00	2208.00	2209.00	2160.00
Train 3						

Planned unavailable hours	0	0	0	0	3.72	13.83
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	0	0	453.60	2208.00	2209.00	2160.00
Train 4						
Planned unavailable hours	0	0	0	4.97	0	0
Unplanned unavailable hours	0	0	11.25	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	0	0	453.60	2208.00	2209.00	2160.00
Indicator value						

Licensee Comments:

1Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

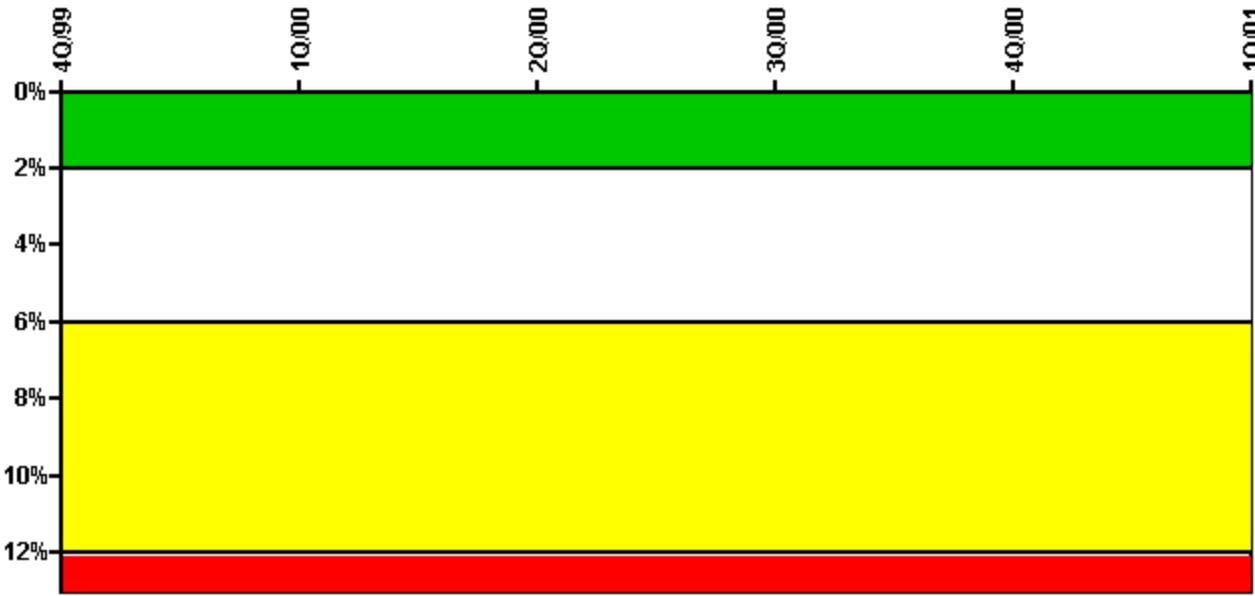
4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, Heat Removal System (AFW)



Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0	0	0.98	0	0	5.58
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	0	0	454.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	0	0	1.10	0	10.41	0
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	0	0	454.00	2208.00	2209.00	2160.00
Train 3						
Planned unavailable hours	0	0	0	0	0	11.98
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	78.06	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	0	0	454.00	2208.00	2209.00	2160.00
Indicator value						

Licensee Comments:

1Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated.

4Q/00: Change report submitted to remove unplanned unavailable hours for the TDAFP as the result of an evaluation performed that determined the TDAFP was available. Also, the 10.41 hours of planned unavailable hours has been moved to train 2 to correct a train reporting error.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved

November 15, 2001.

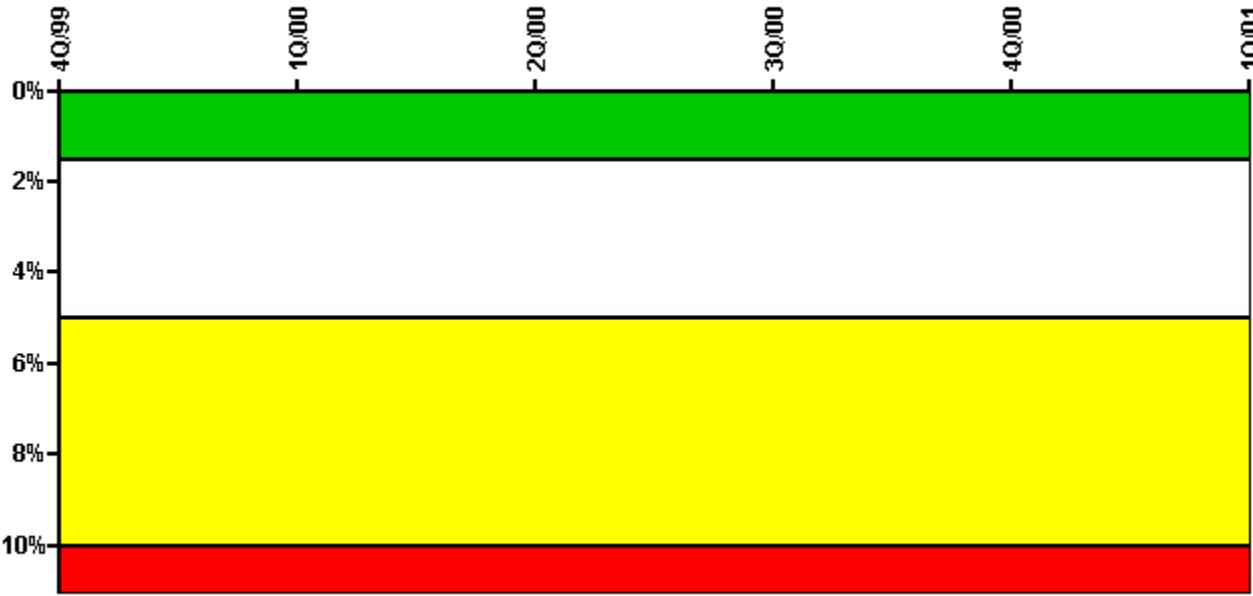
4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System		4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1							
Planned unavailable hours		0	0	0	0	11.70	6.63
Unplanned unavailable hours		0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0
Required hours		0	0	2184.00	2208.00	2209.00	2160.00
Train 2							
Planned unavailable hours		0	0	0	0	0	6.97
Unplanned unavailable hours		0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0

Required hours	0	0	2184.00	2208.00	2209.00	2160.00
Indicator value						

Licensee Comments:

1Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

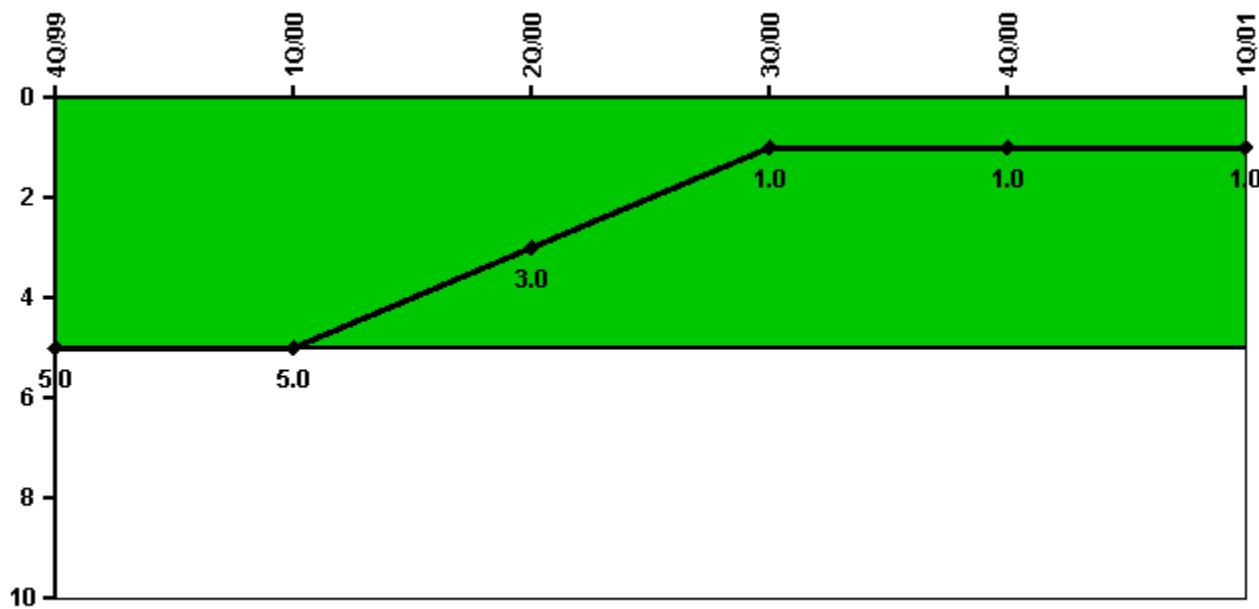
4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

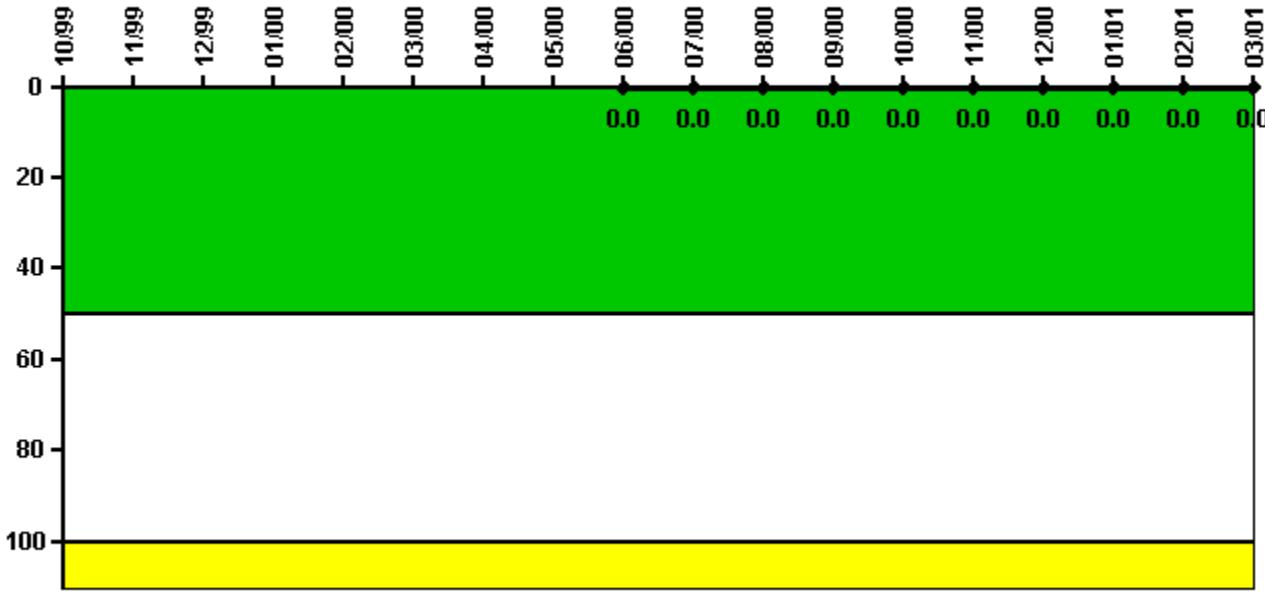
Notes

Safety System Functional Failures (PWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Safety System Functional Failures	0	1	0	0	0	1

Indicator value	5	5	3	1	1	1
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Licensee Comments: none

Reactor Coolant System Activity



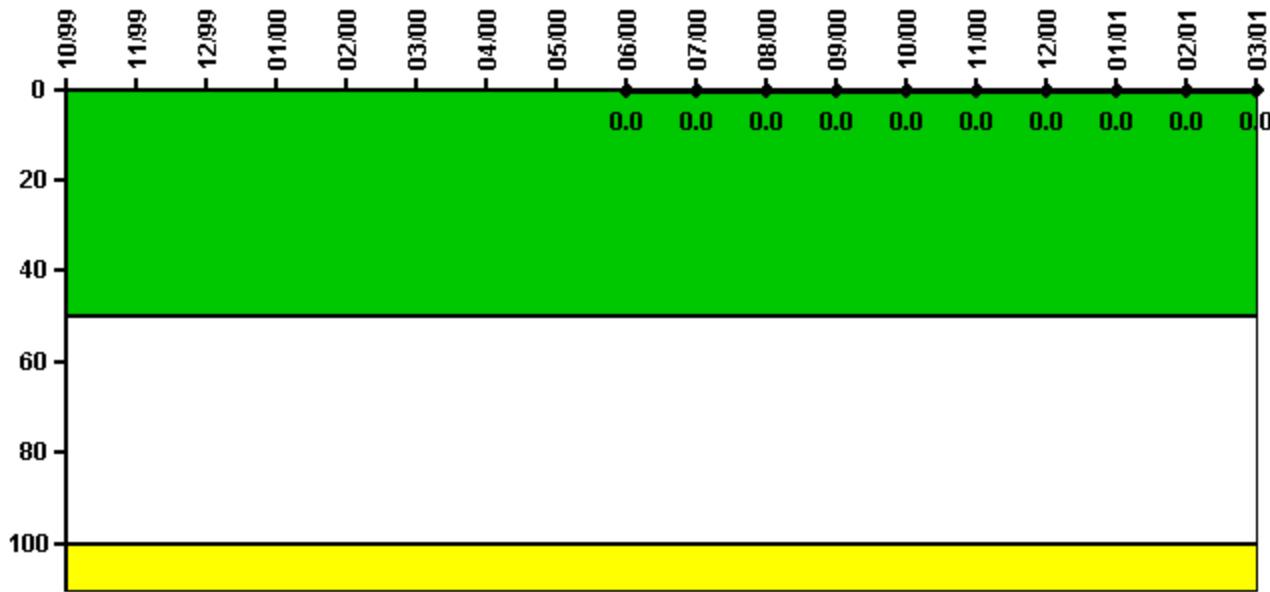
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity						N/A	N/A	0.000200	0.000311	0.000337	0.000364	
Technical specification limit						1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value						N/A	N/A	0	0	0	0	0

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.000363	0.000386	0.000370	0.000394	0.000414	0.000401
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage

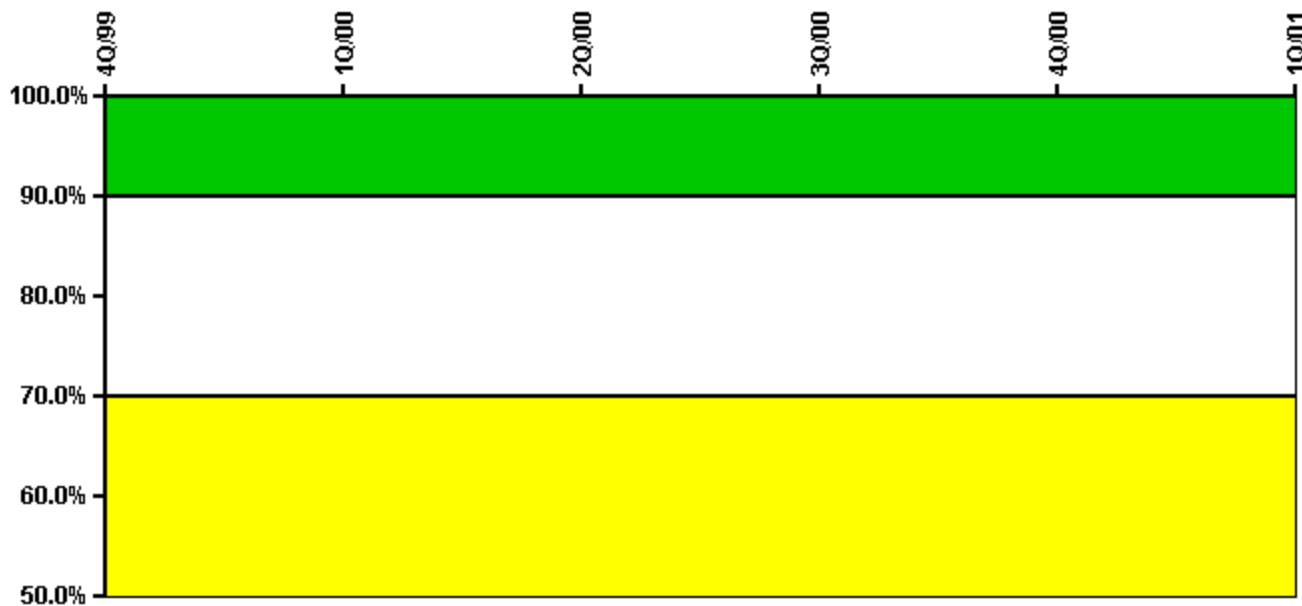
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage							N/A	N/A	0	0	0	0
Technical specification limit							10.0	10.0	10.0	10.0	10.0	10.0
Indicator value							N/A	N/A	0	0	0	0

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	0	0	0	0	0	0
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance

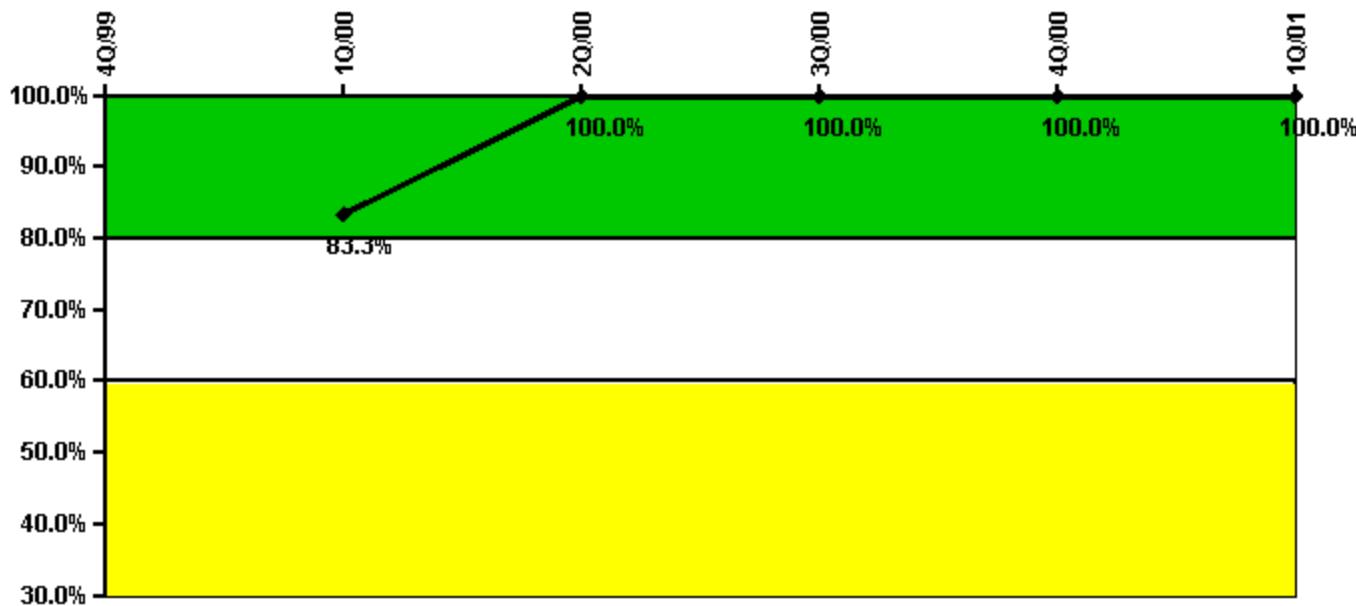
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful opportunities	24.0	25.0	56.0	54.0	24.0	44.0
Total opportunities	24.0	25.0	59.0	55.0	26.0	44.0
Indicator value						

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

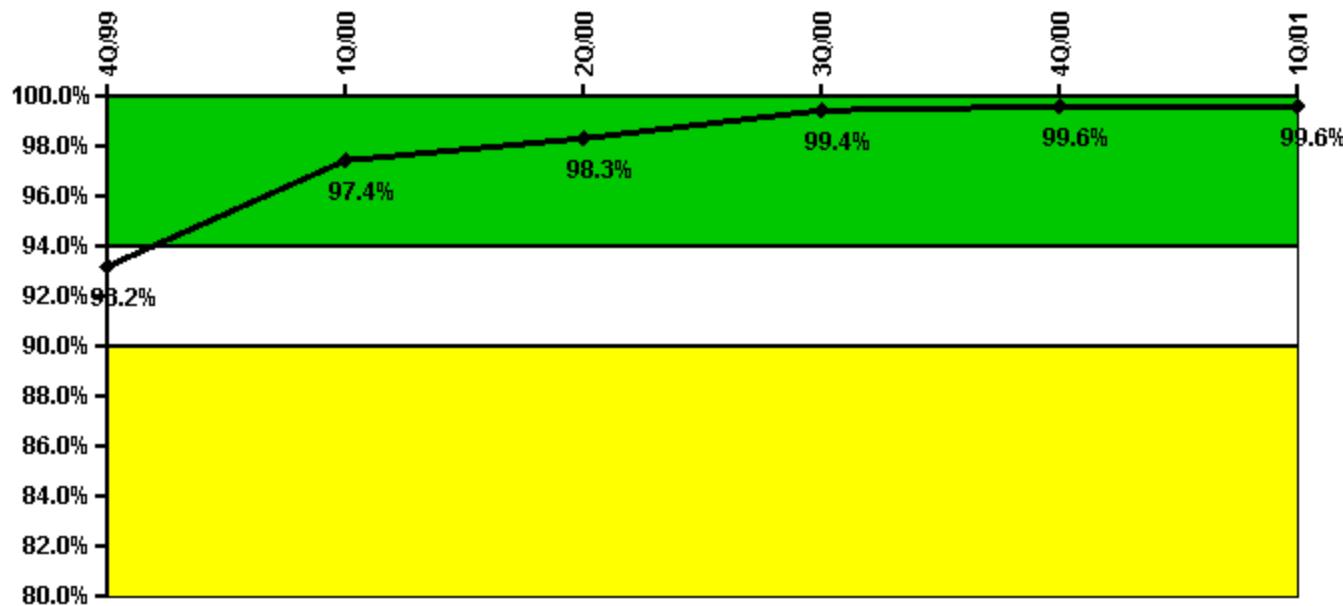
Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Participating Key personnel		35.0	46.0	48.0	50.0	54.0
Total Key personnel		42.0	46.0	48.0	50.0	54.0
Indicator value		83.3%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

1Q/01: 1Q2001 data did not account for 3 key ERO members that fill two positions. The 3 individuals had participated in a drill, exercise or actual event for both ERO positions, therefore the resulting indicator value is unaffected. This oversight has been entered into the D.C. Cook Plant Corrective Action Program.

Alert & Notification System

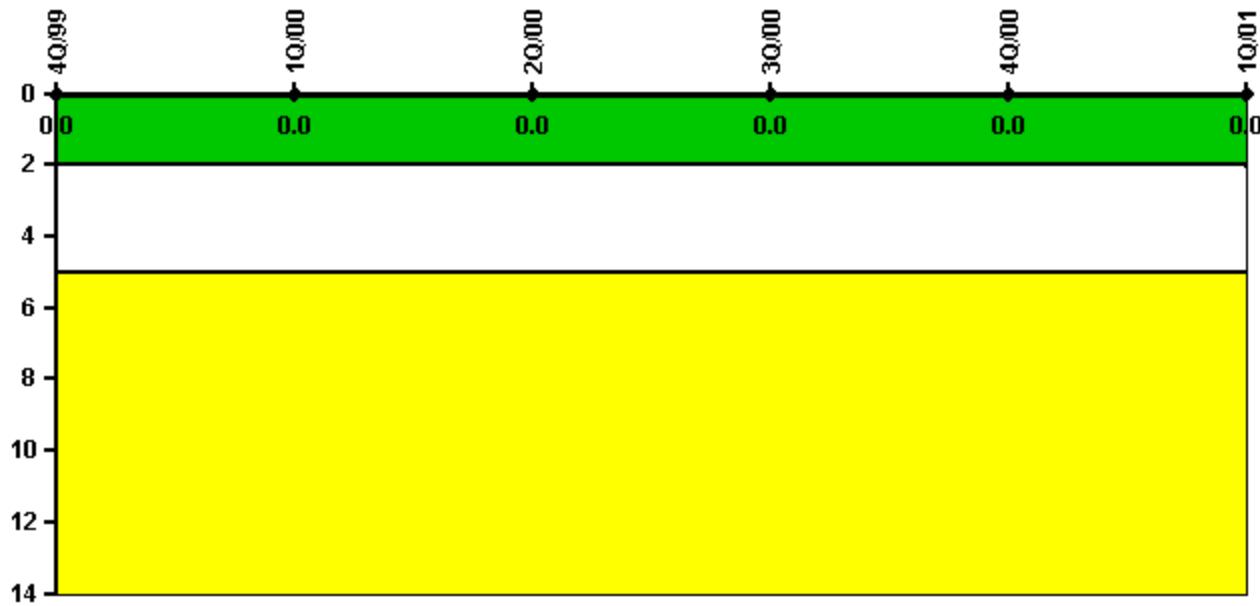


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful siren-tests	207	209	209	210	209	209
Total sirens-tests	210	210	210	210	210	210
Indicator value	93.2%	97.4%	98.3%	99.4%	99.6%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
High radiation area occurrences	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

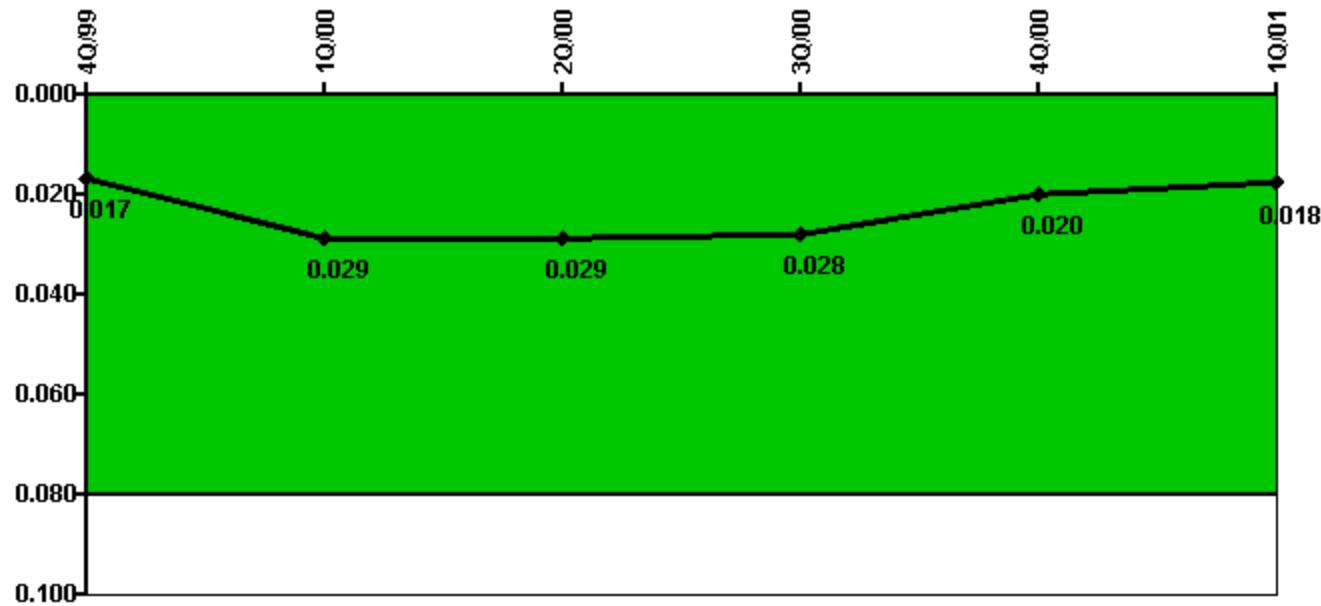
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
RETS/ODCM occurrences	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



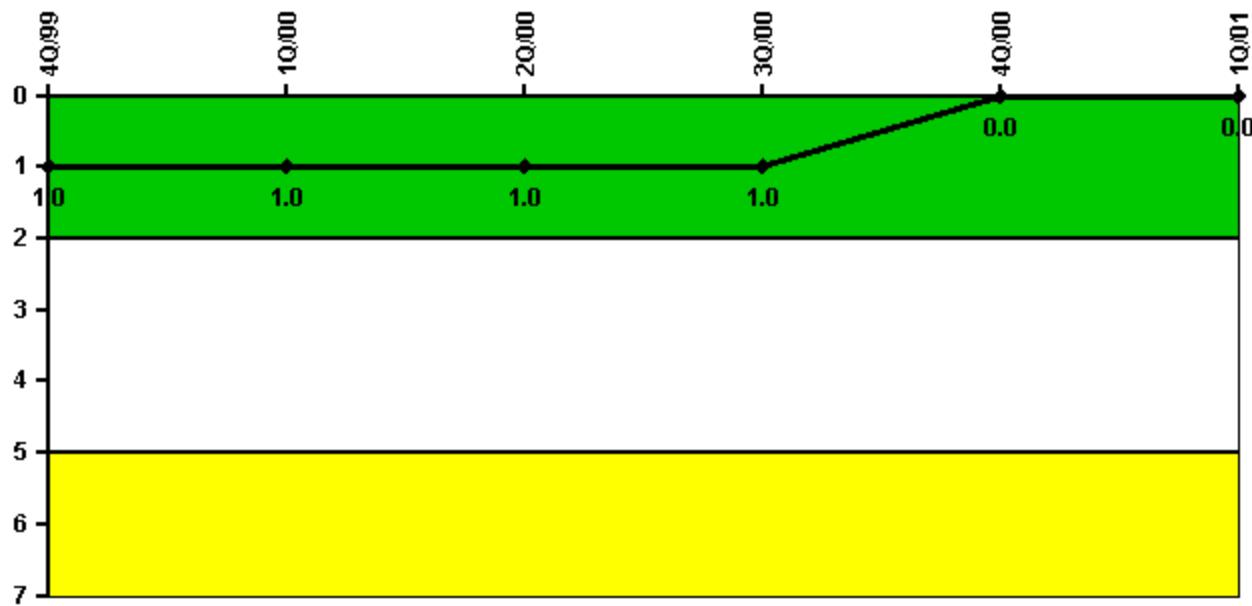
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
IDS compensatory hours	199.30	364.70	31.80	4.05	40.38	376.40
CCTV compensatory hours	16.7	38.5	0	0.1	0	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.017	0.029	0.029	0.028	0.020	0.018

Licensee Comments: none

Personnel Screening Program



Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Program failures	1	0	0	0	0	0
Indicator value	1	1	1	1	0	0

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Program Failures	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0

Licensee Comments: none

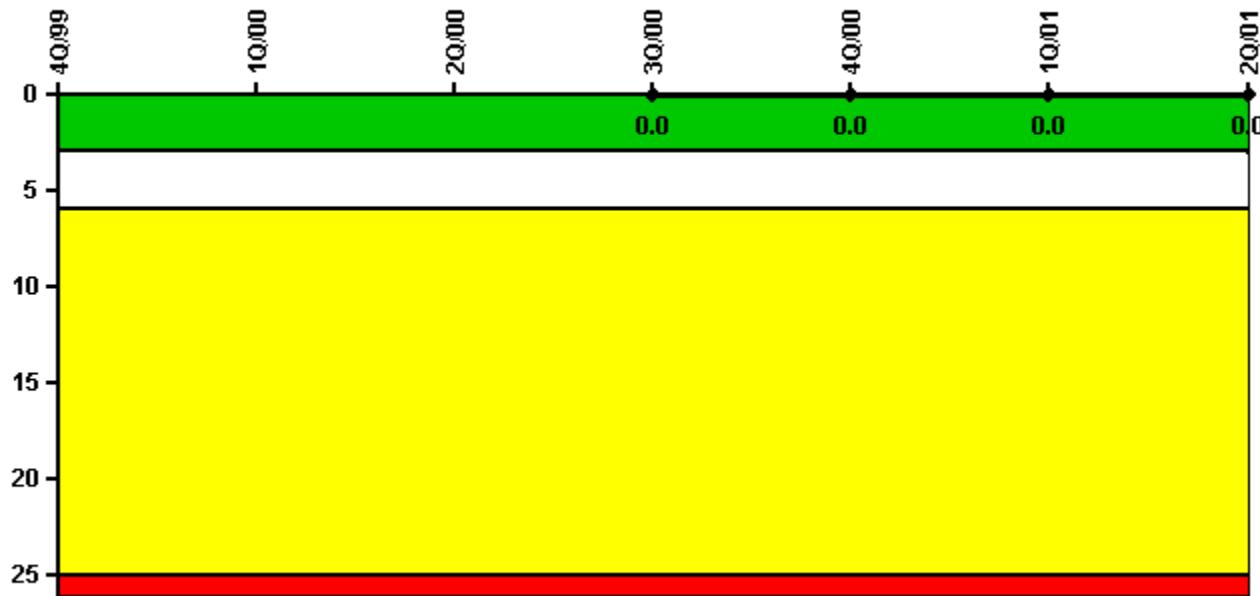


[PI Summary](#) | [Inspection Findings Summary](#) | [Action Matrix Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 28, 2002

D.C. Cook 2**2Q/2001 Performance Indicators**

Licensee's General Comments: Cook Unit 2 returned to service June 25, 2000 after a 33-month forced outage. Without sufficient operational service, various performance indicators are not calculated.

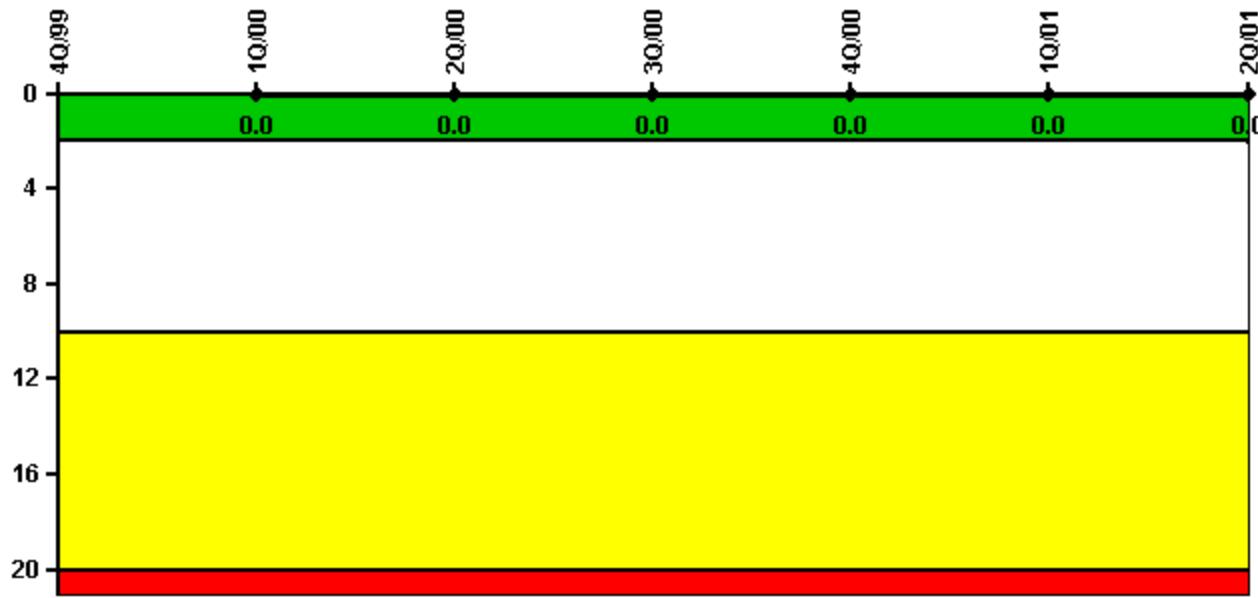
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned scrams	0	0	0	0	0	0	0
Critical hours	0	0	197.0	2208.0	2209.0	2076.0	2183.0
Indicator value	N/A	N/A	N/A	0	0	0	0

Licensee Comments: none

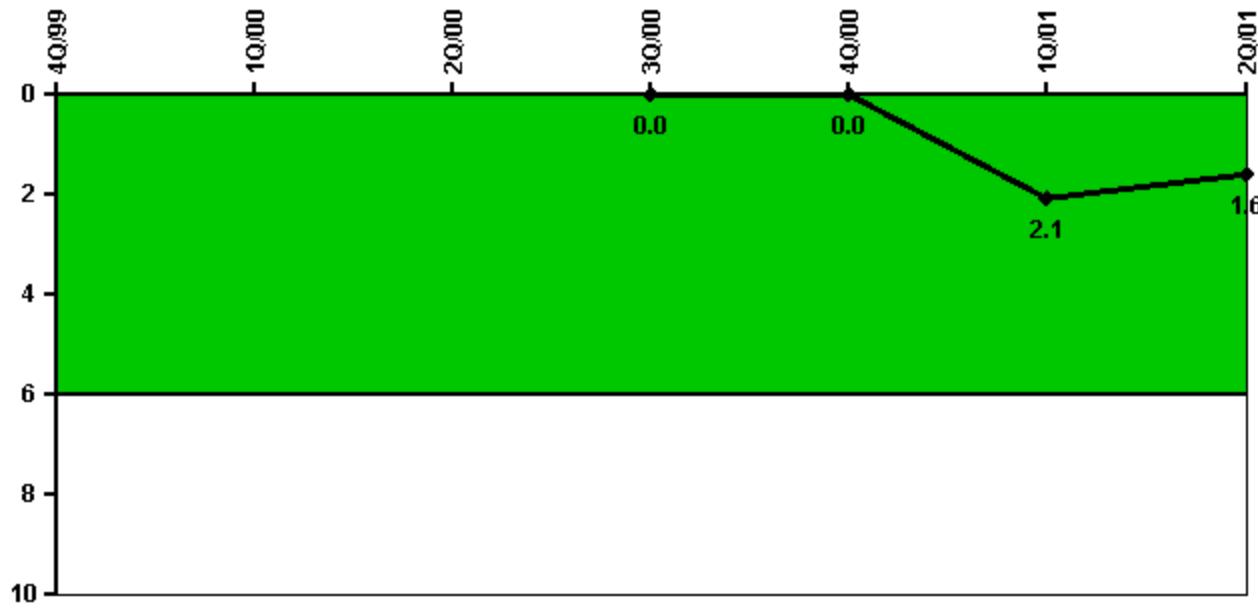
Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Scrams	0	0	0	0	0	0	0
Indicator value		0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

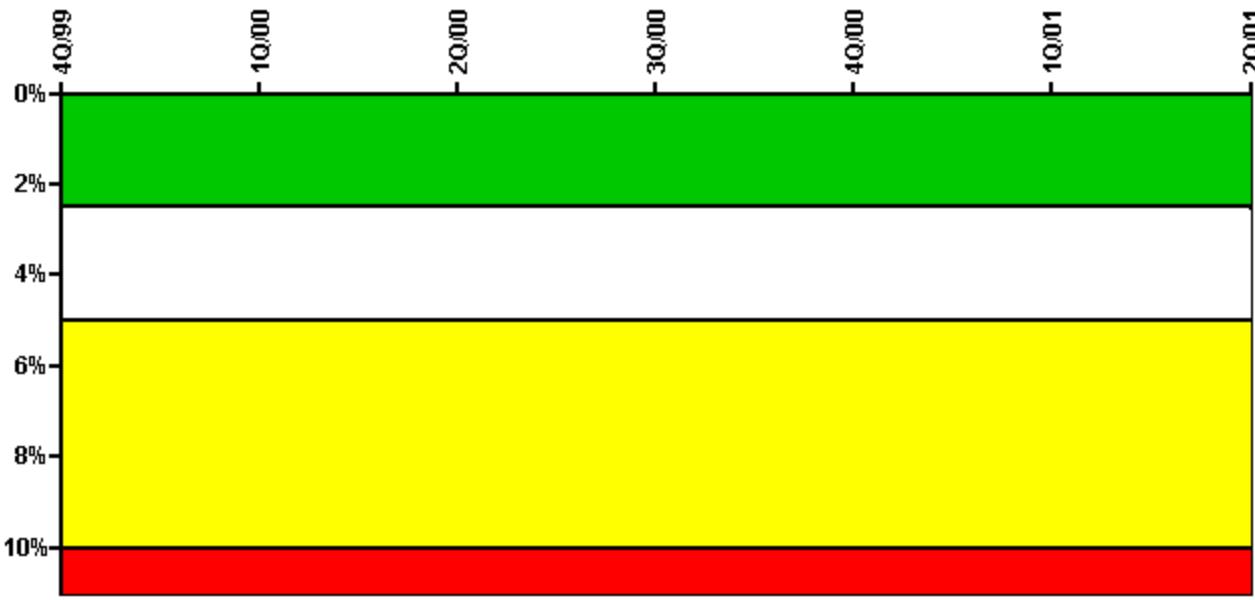
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned power changes	0	0	0	0	0	2.0	0
Critical hours	0	0	197.0	2208.0	2209.0	2076.0	2183.0
Indicator value	N/A	N/A	N/A	0	0	2.1	1.6

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	0	0	4.45	8.20	20.78	0.47	5.20
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	0	0	2184.00	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	0	0	6.20	0	13.30	27.25	26.18
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	0	0	2184.00	2208.00	2209.00	2160.00	2183.00
Indicator value							

Licensee Comments:

2Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated.

4Q/00: Change made to add planned unavailable hours to train 1EDG to account for CO2 testing.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

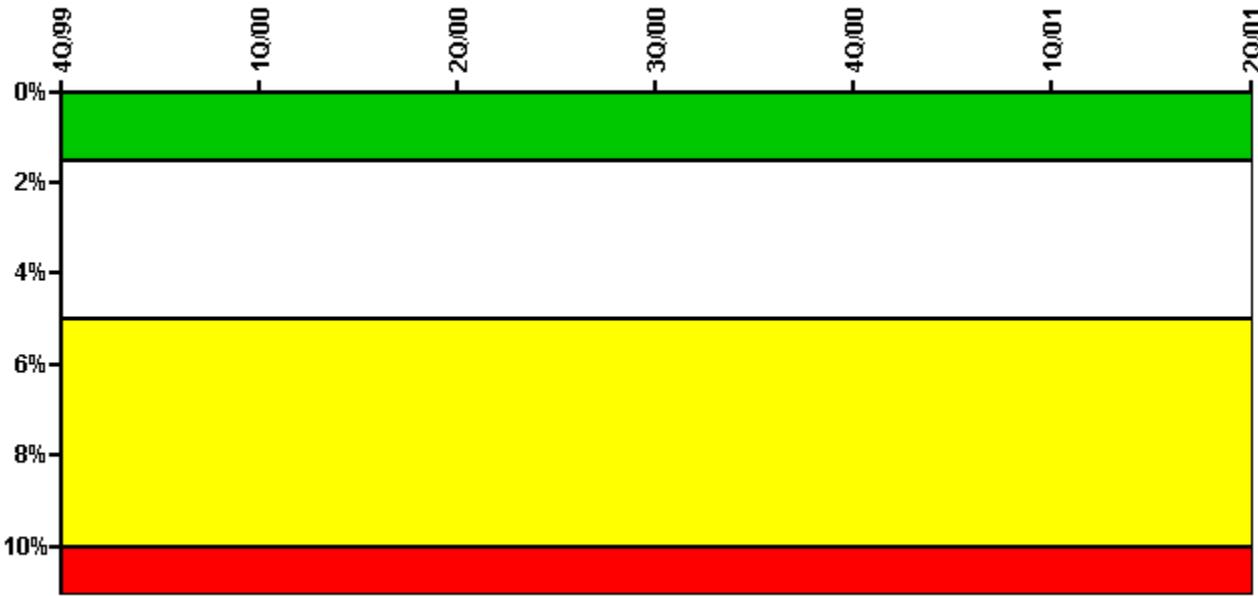
2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, High Pressure Injection System (HPSI)



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	0	0	0	7.50	9.18	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	0	0	581.00	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	0	0	0	0	0	16.65	0
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	0	0	581.00	2208.00	2209.00	2160.00	2183.00
Train 3							

Planned unavailable hours	0	0	0	0	3.72	13.83	0
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	0	0	453.60	2208.00	2209.00	2160.00	2183.00
Train 4							
Planned unavailable hours	0	0	0	4.97	0	0	5.57
Unplanned unavailable hours	0	0	11.25	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	0	0	453.60	2208.00	2209.00	2160.00	2183.00
Indicator value							

Licensee Comments:

2Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, Heat Removal System (AFW)



Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)		4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1								
Planned unavailable hours		0	0	0.98	0	0	5.58	0
Unplanned unavailable hours		0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0
Required hours		0	0	454.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours		0	0	1.10	0	10.41	0	1.00
Unplanned unavailable hours		0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0
Required hours		0	0	454.00	2208.00	2209.00	2160.00	2183.00
Train 3								
Planned unavailable hours		0	0	0	0	0	11.98	0
Unplanned unavailable hours		0	0	0	0	0	0	0
Fault exposure hours		0	0	78.06	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0
Required hours		0	0	454.00	2208.00	2209.00	2160.00	2183.00
Indicator value								

Licensee Comments:

2Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated.

2Q/01: In accordance with FAQ 291, approved November 15, 2001, a change report was submitted to remove the T/2 fault exposure hours from the PI calculation.

2Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated.

4Q/00: Change report submitted to remove unplanned unavailable hours for the TDAFP as the result of an evaluation performed that determined the TDAFP was available. Also, the 10.41 hours of planned unavailable hours has been moved to train 2 to correct a train reporting error.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

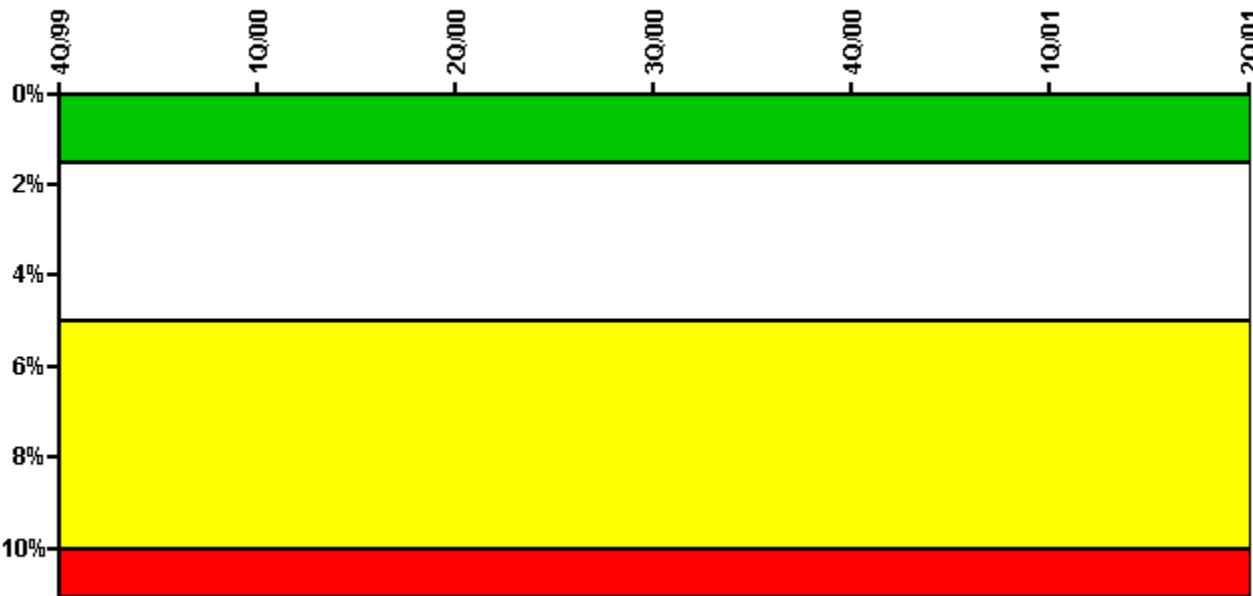
4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	0	0	0	0	11.70	6.63	0
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	0	0	2184.00	2208.00	2209.00	2160.00	2183.00
Train 2							

Planned unavailable hours	0	0	0	0	0	6.97	0
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	0	0	2184.00	2208.00	2209.00	2160.00	2183.00
Indicator value							

Licensee Comments:

2Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

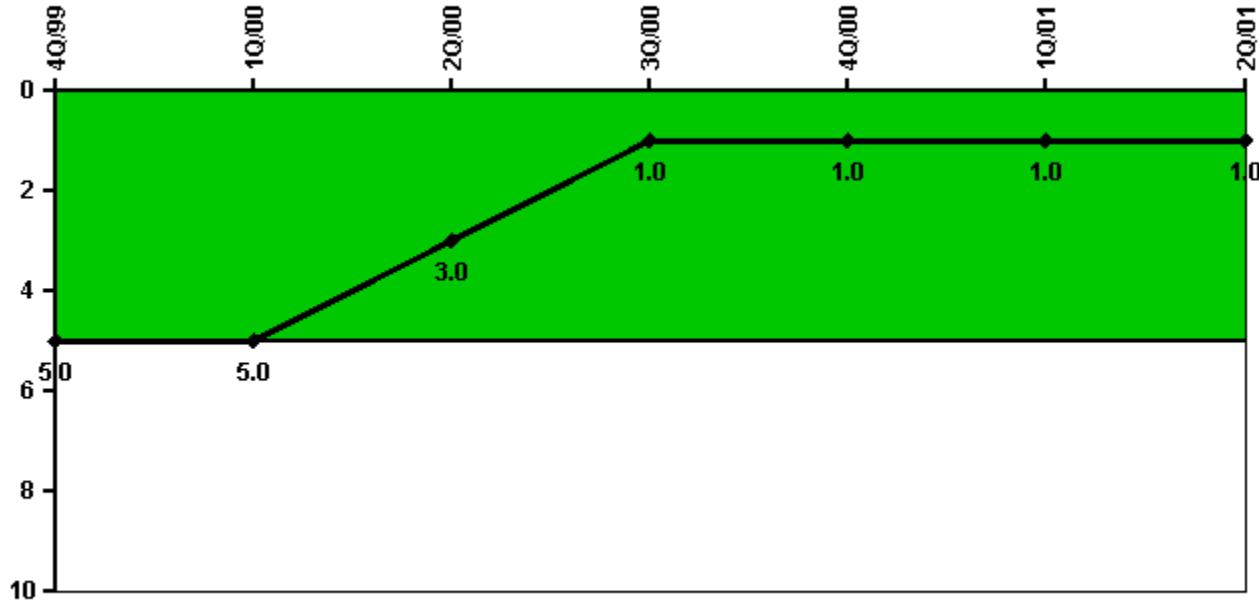
4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Functional Failures (PWR)



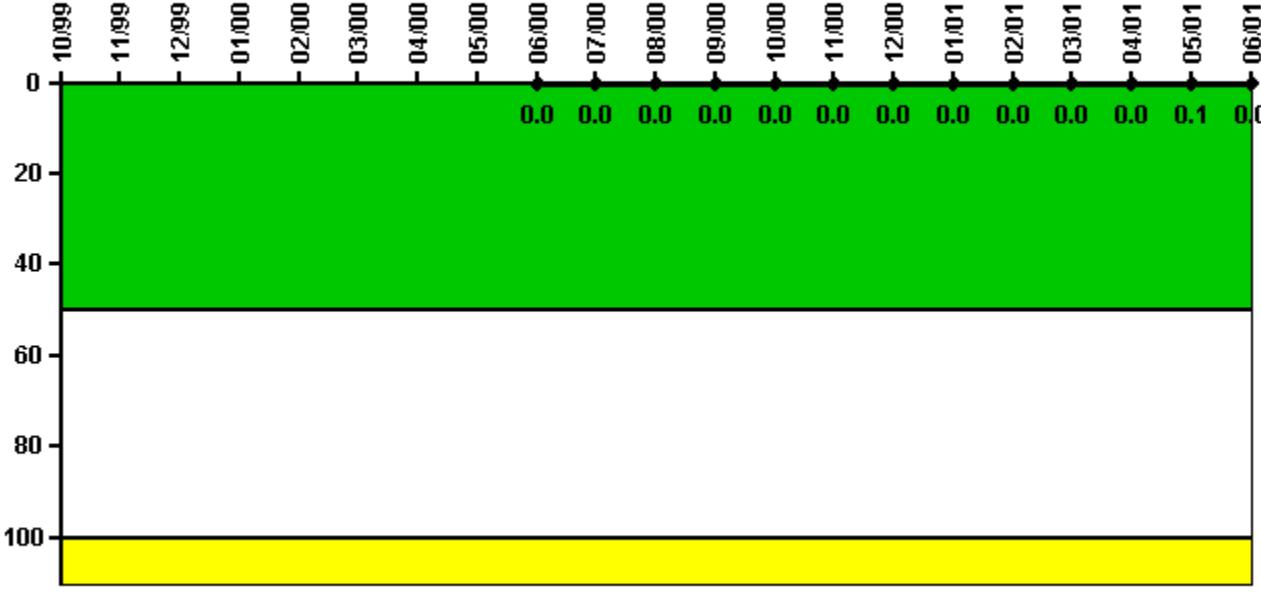
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Safety System Functional Failures	0	1	0	0	0	1	0
Indicator value	5	5	3	1	1	1	1

Licensee Comments: none

Reactor Coolant System Activity



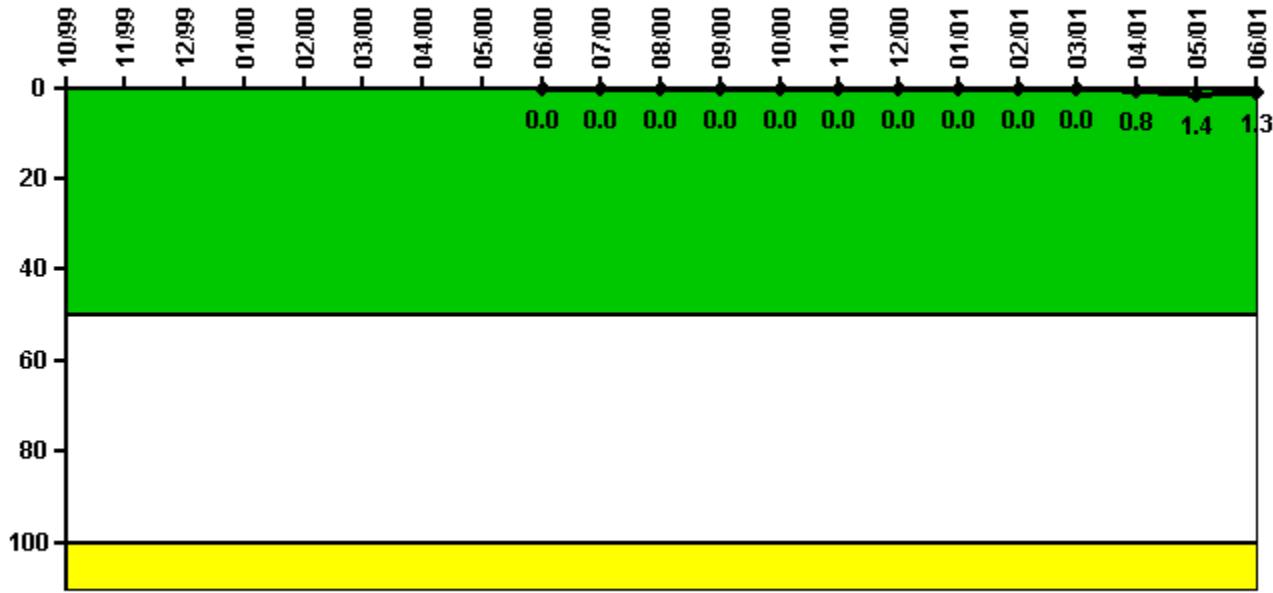
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity							N/A	N/A	0.000200	0.000311	0.000337	0.000364
Technical specification limit							1.0	1.0	1.0	1.0	1.0	1.0
Indicator value							N/A	N/A	0	0	0	0
Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01			
Maximum activity	0.000363	0.000386	0.000370	0.000394	0.000414	0.000401	0.000407	0.000508	0.000452			
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			
Indicator value	0	0	0	0	0	0	0	0.1	0			

Licensee Comments: none

Reactor Coolant System Leakage



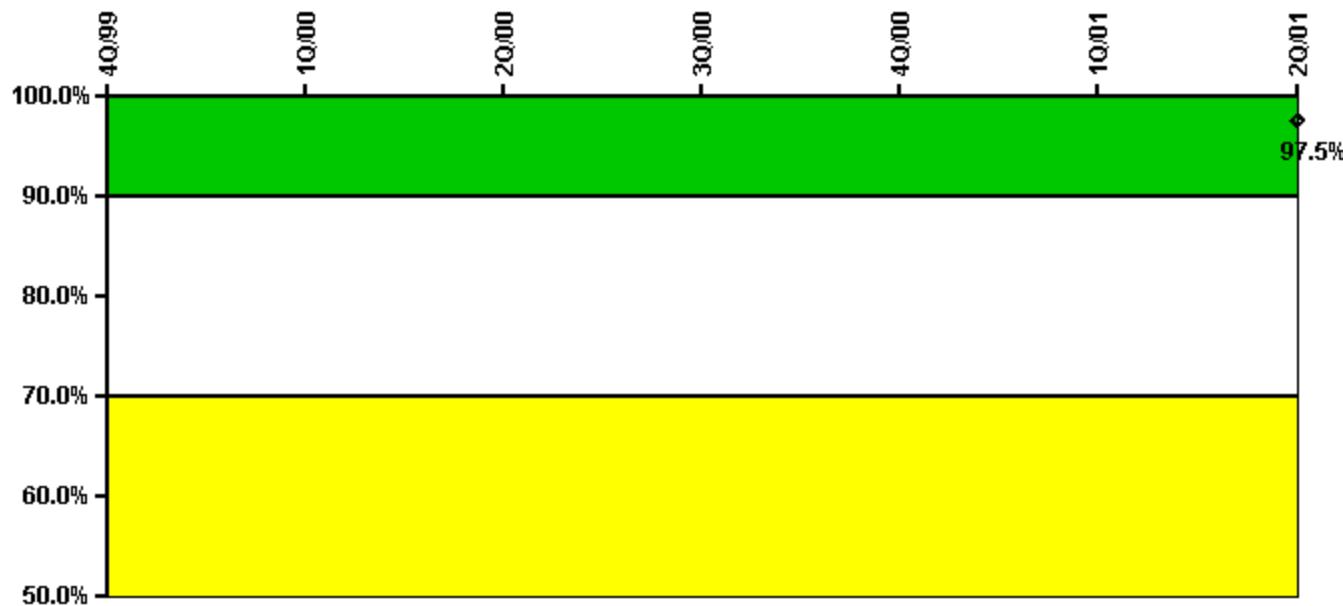
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage							N/A	N/A	0	0	0	0
Technical specification limit							10.0	10.0	10.0	10.0	10.0	10.0
Indicator value							N/A	N/A	0	0	0	0

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	0	0	0	0	0	0	0.090	0.150	0.140
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	11.0	11.0	11.0
Indicator value	0	0	0	0	0	0	0.8	1.4	1.3

Licensee Comments: none

Drill/Exercise Performance

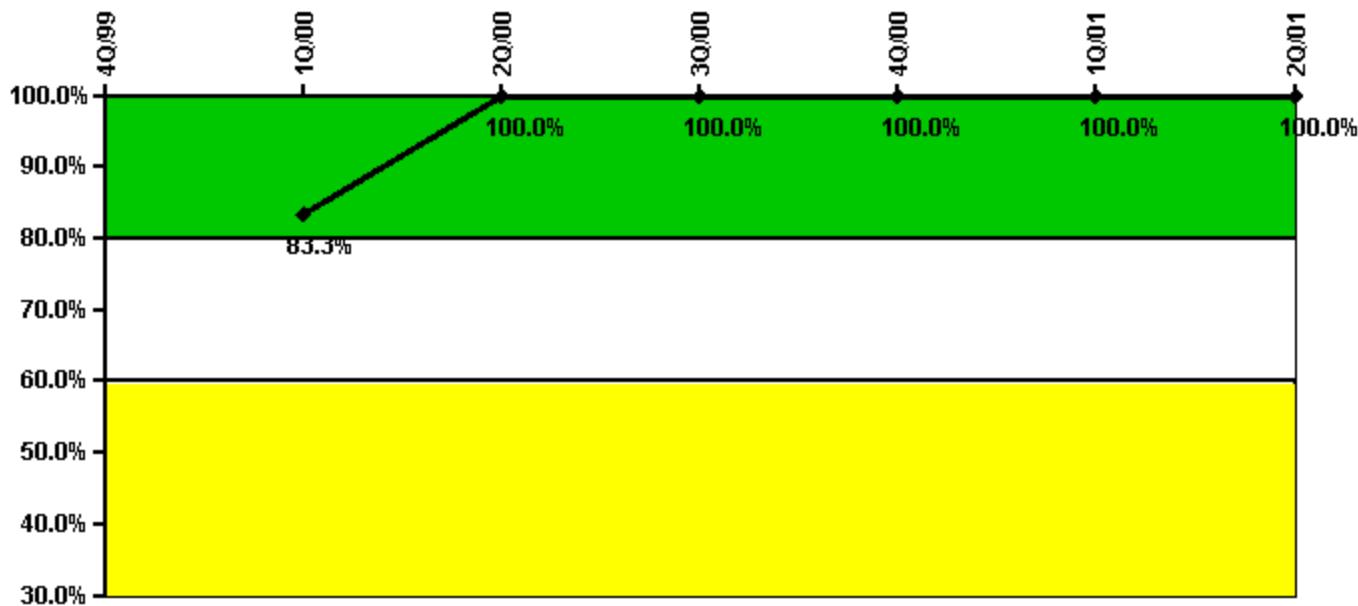
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Successful opportunities	24.0	25.0	56.0	54.0	24.0	44.0	35.0
Total opportunities	24.0	25.0	59.0	55.0	26.0	44.0	36.0
Indicator value							97.5%

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

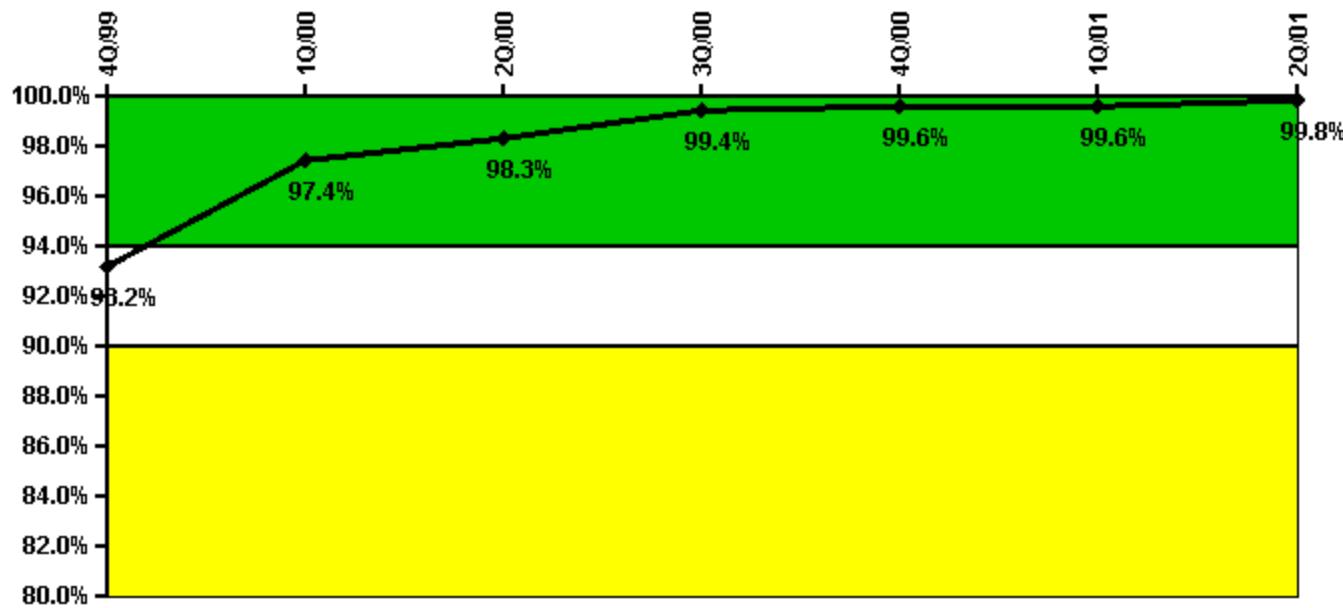
Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Participating Key personnel		35.0	46.0	48.0	50.0	54.0	55.0
Total Key personnel		42.0	46.0	48.0	50.0	54.0	55.0
Indicator value		83.3%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

1Q/01: 1Q2001 data did not account for 3 key ERO members that fill two positions. The 3 individuals had participated in a drill, exercise or actual event for both ERO positions, therefore the resulting indicator value is unaffected. This oversight has been entered into the D.C. Cook Plant Corrective Action Program.

Alert & Notification System

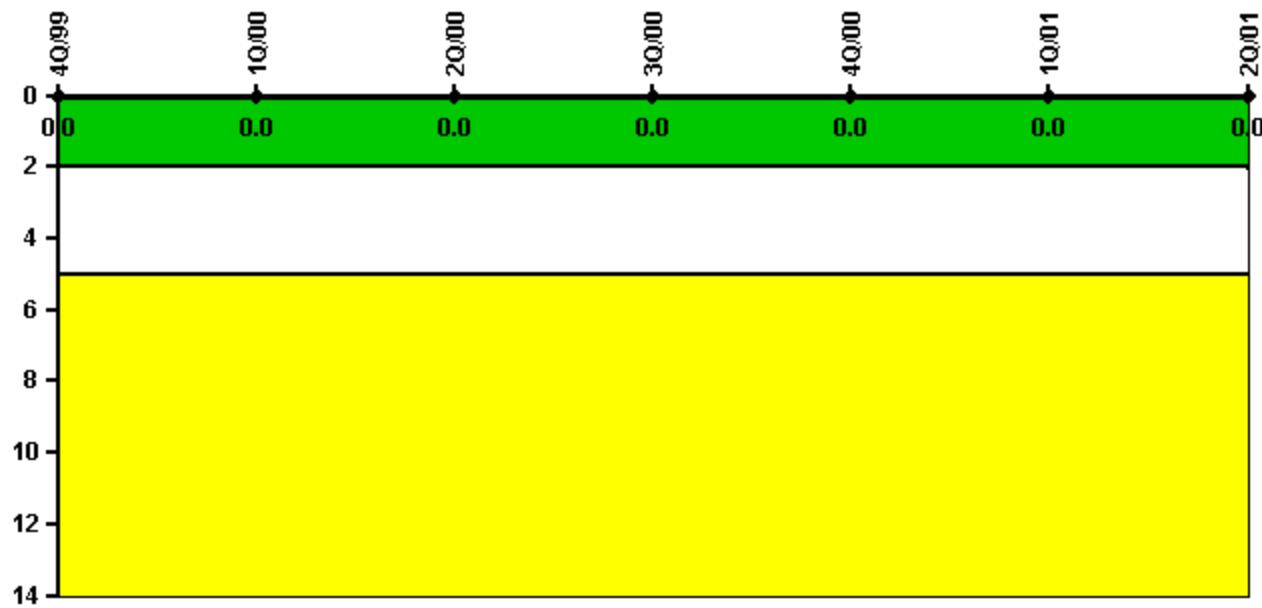


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Successful siren-tests	207	209	209	210	209	209	210
Total sirens-tests	210	210	210	210	210	210	210
Indicator value	93.2%	97.4%	98.3%	99.4%	99.6%	99.6%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness

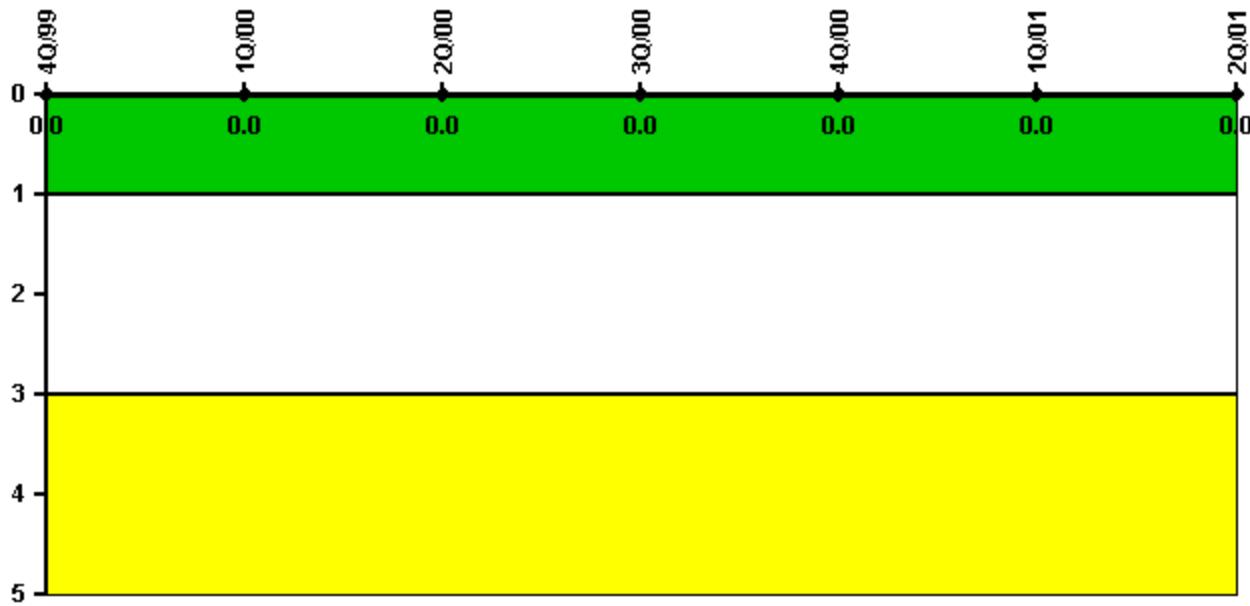
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
High radiation area occurrences	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0

Licensee Comments:

2Q/01:

RETS/ODCM Radiological Effluent

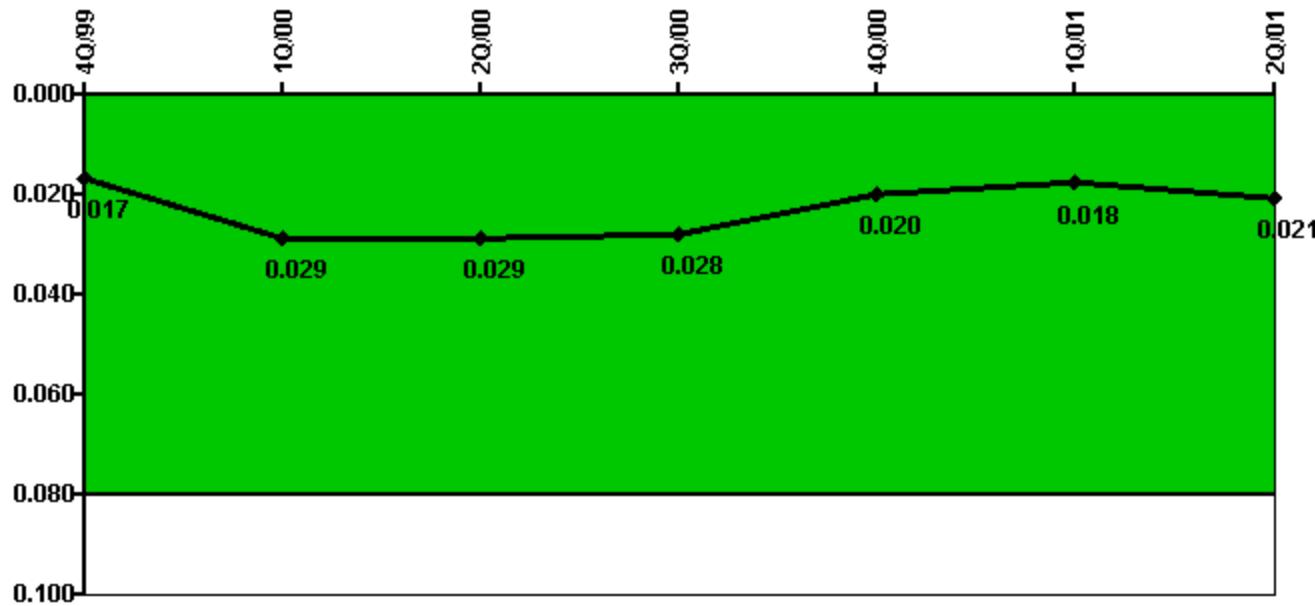
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
RETS/ODCM occurrences	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

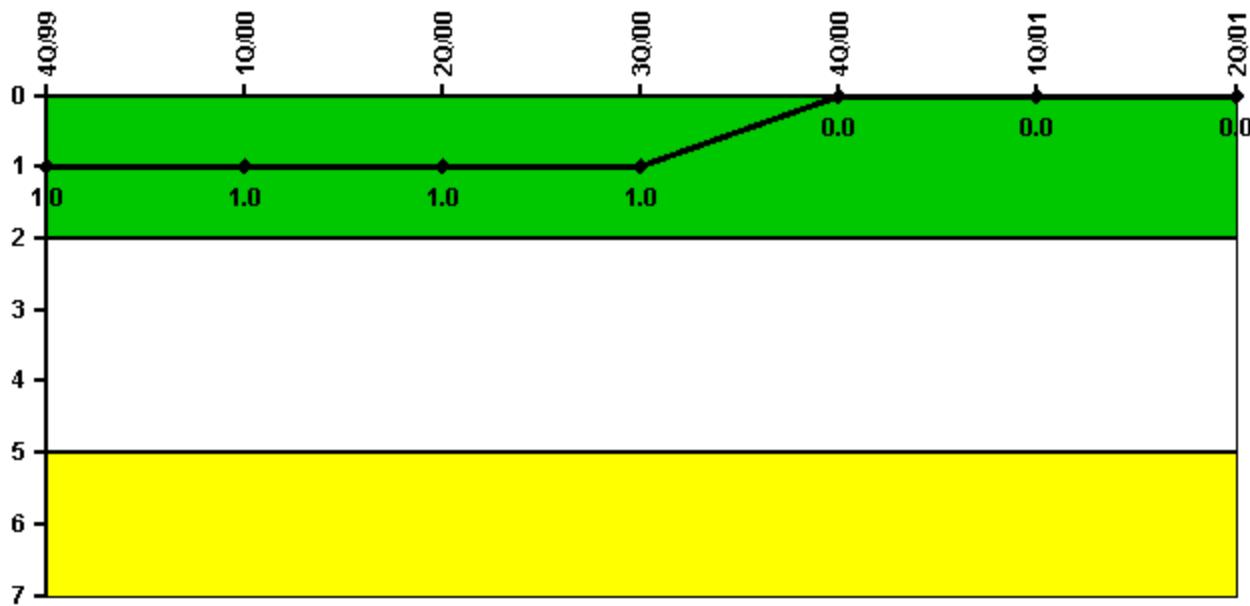
Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
IDS compensatory hours	199.30	364.70	31.80	4.05	40.38	376.40	97.80
CCTV compensatory hours	16.7	38.5	0	0.1	0	0	0.3
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.017	0.029	0.029	0.028	0.020	0.018	0.021

Licensee Comments:

2Q/01: In accordance with NEI 99-02, compensatory hours associated with scheduled equipment upgrades that are being performed and those compensatory hours for configuration issues associated with the equipment upgrades are excluded.

Personnel Screening Program

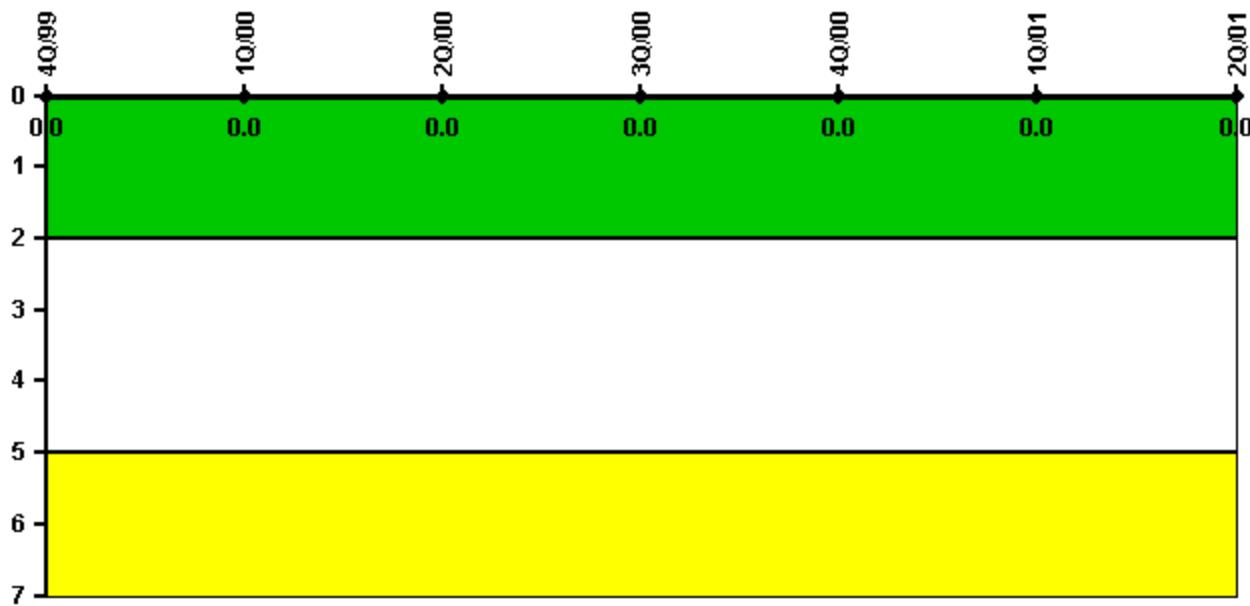


Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Program failures	1	0	0	0	0	0	0
Indicator value	1	1	1	1	0	0	0

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Program Failures	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0

Licensee Comments: none

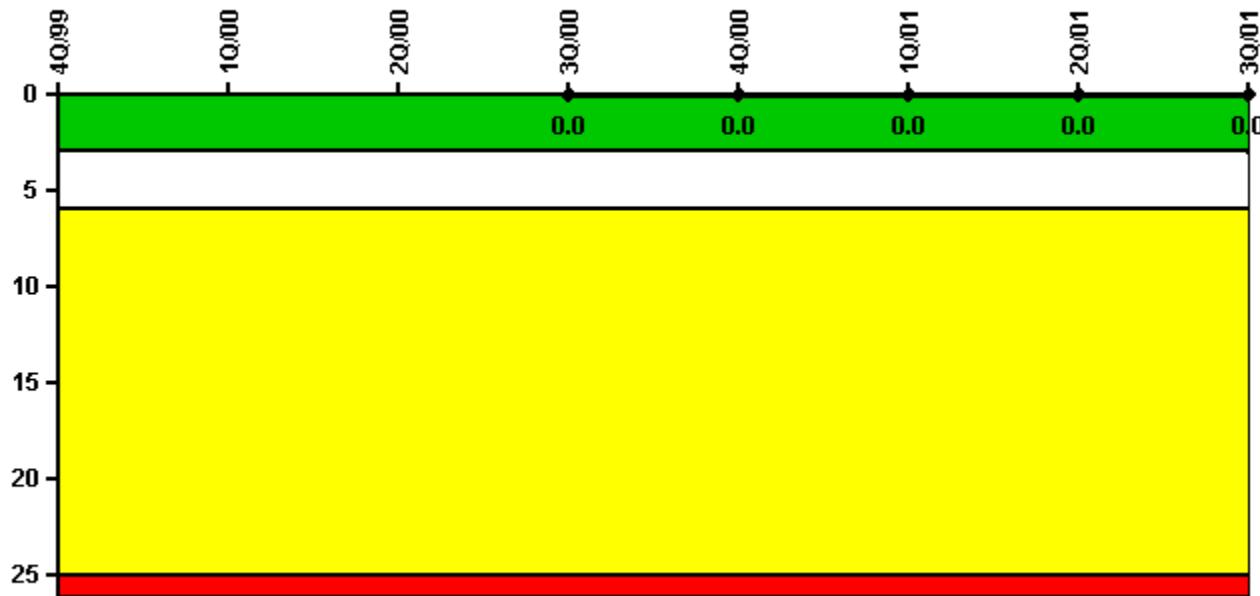


[PI Summary](#) | [Inspection Findings Summary](#) | [Action Matrix Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 27, 2002

D.C. Cook 2**3Q/2001 Performance Indicators**

Licensee's General Comments: Cook Unit 2 returned to service June 25, 2000 after a 33-month forced outage. Without sufficient operational service, various performance indicators are not calculated.

Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	0	0	197.0	2208.0	2209.0	2076.0	2183.0	1454.0
Indicator value	N/A	N/A	N/A	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

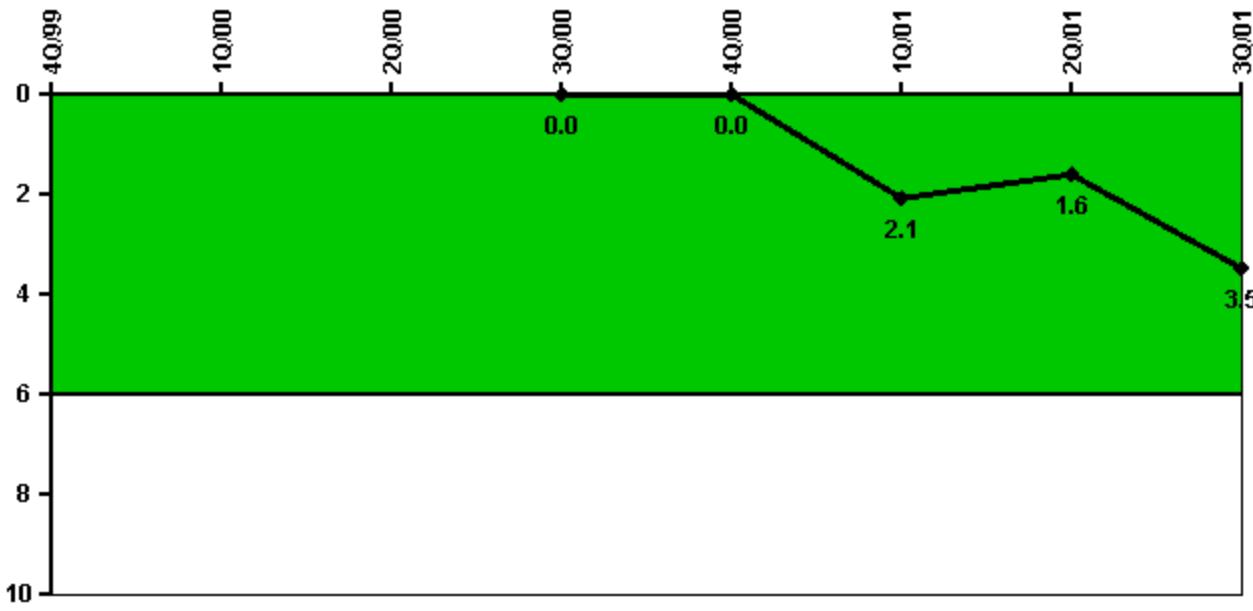
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Scrams	0	0	0	0	0	0	0	0
Indicator value			0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

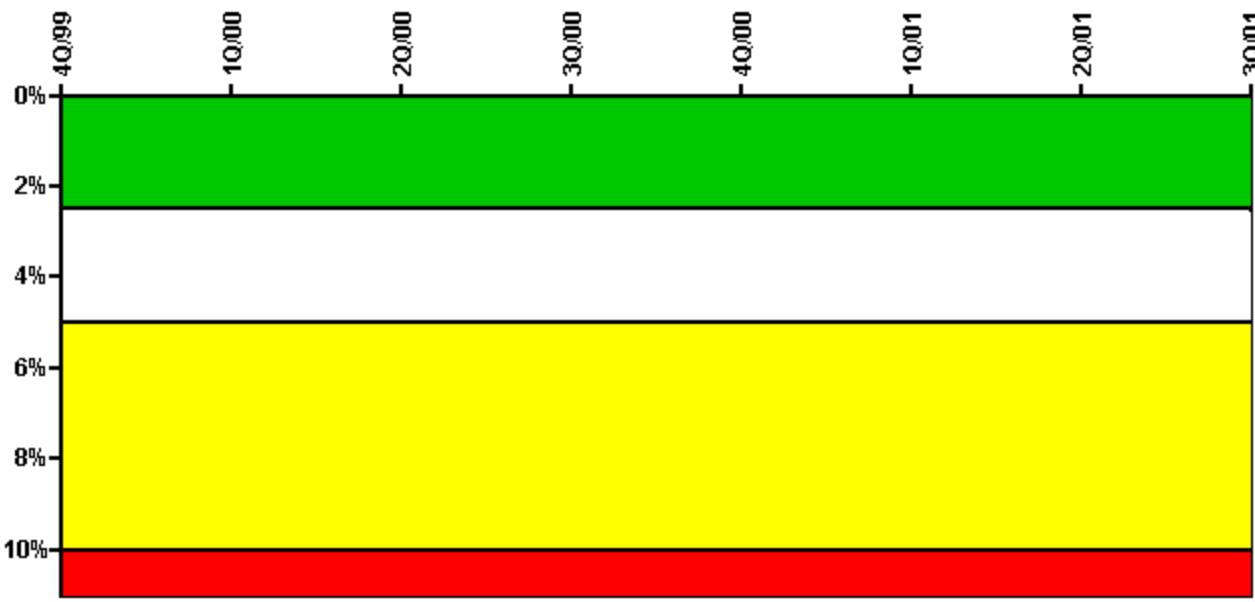
Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned power changes	0	0	0	0	0	2.0	0	2.0
Critical hours	0	0	197.0	2208.0	2209.0	2076.0	2183.0	1454.0
Indicator value	N/A	N/A	N/A	0	0	2.1	1.6	3.5

Licensee Comments:

3Q/01: Unit 2 required two Unplanned Power Changes this quarter. On August 10, 2001, Unit 2 entered a Technical Specification required shutdown due to two inoperable auxiliary feedwater pumps and exited the required shutdown at 75% reactor power when operability of one of the auxiliary feedwater pumps was restored. On August 30, 2001, Unit 2 was shutdown due to degraded essential service water (ESW) system flow. The degraded flow was caused by silt intrusion via a faulted strainer basket. Corrective actions have been implemented to correct the strainer basket design and installation practices. Also, design changes were implemented to prevent a failed strainer basket from impacting both ESW headers.

Safety System Unavailability, Emergency AC Power



Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	0	0	4.45	8.20	20.78	0.47	5.20	0.30
Unplanned unavailable hours	0	0	0	0	0	0	0	0.90
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	2184.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	0	6.20	0	13.30	27.25	26.18	0.58
Unplanned unavailable hours	0	0	0	0	0	0	0	0.90
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	2184.00	2208.00	2209.00	2160.00	2183.00	1524.50
Indicator value								

Licensee Comments:

3Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated.

4Q/00: Change made to add planned unavailable hours to train 1EDG to account for CO2 testing.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, High Pressure Injection System (HPSI)



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Planned unavailable hours	0	0	0	0	3.72	13.83	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	453.60	2208.00	2209.00	2160.00	2183.00	1524.47
Train 4								
Planned unavailable hours	0	0	0	4.97	0	0	5.57	0
Unplanned unavailable hours	0	0	11.25	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	453.60	2208.00	2209.00	2160.00	2183.00	1501.97
Indicator value								

Licensee Comments:

3Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

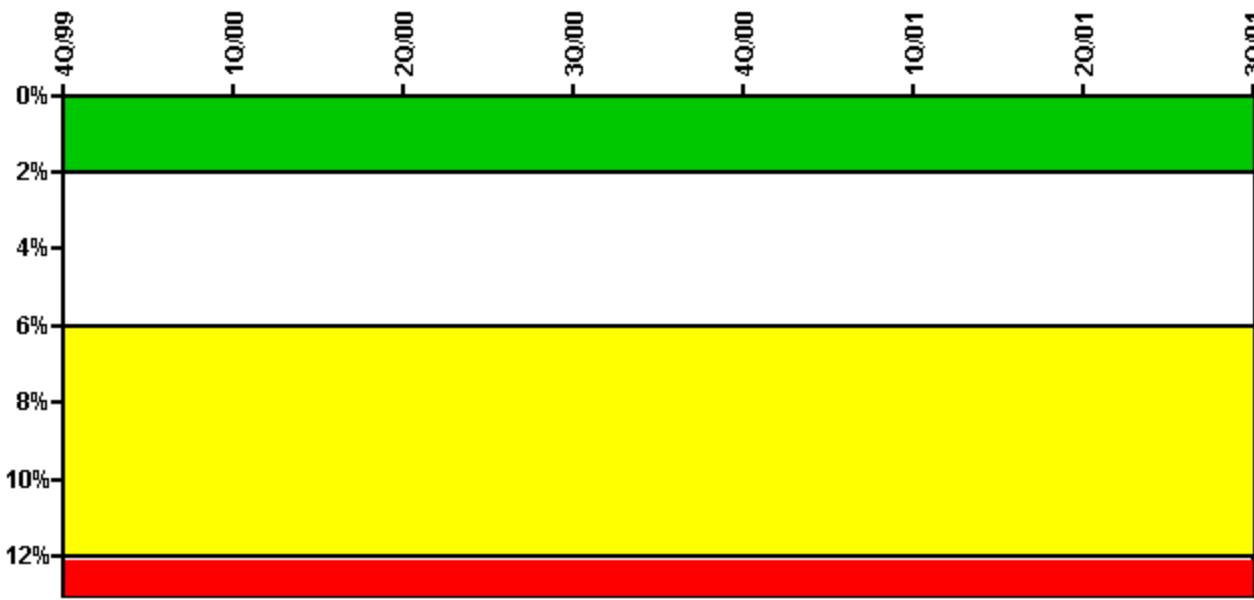
4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, Heat Removal System (AFW)



Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	0	0	0.98	0	0	5.58	0	1.32
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	454.00	2208.00	2209.00	2160.00	2183.00	1579.05
Train 2								
Planned unavailable hours	0	0	1.10	0	10.41	0	1.00	1.85
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	454.00	2208.00	2209.00	2160.00	2183.00	1579.05
Train 3								
Planned unavailable hours	0	0	0	0	0	11.98	0	5.75
Unplanned unavailable hours	0	0	0	0	0	0	0	32.39
Fault exposure hours	0	0	78.06	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	454.00	2208.00	2209.00	2160.00	2183.00	1579.05
Indicator value								

Licensee Comments:

3Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated. Fault exposure hours are being reported for Train 3, Turbine Driven Auxiliary Feed Pump (TDAFP). The fault exposure was a demand failure where the time of occurrence and exposure is unknown. Fault exposure hours were estimated using half of the time (T/2) since the last successful test of the TDAFP. The total T/2 fault exposure was 1007.49 hours and required a change report to be submitted for the 2Q2001 data reporting 45.44 hours for the fault exposure.

3Q/01: In accordance with FAQ 291, approved November 15, 2001, a change report was submitted to remove the T/2 fault exposure hours from

the PI calculation. The fault exposure hours were for Train 3, Turbine Driven Auxiliary Feed Pump (TDAFP). The fault exposure was a demand failure where the time of occurrence and exposure is unknown. Fault exposure hours were estimated using half of the time (T/2) since the last successful test of the TDAFP. The total T/2 fault exposure was 1007.49 hours.

2Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated.

2Q/01: In accordance with FAQ 291, approved November 15, 2001, a change report was submitted to remove the T/2 fault exposure hours from the PI calculation.

4Q/00: Change report submitted to remove unplanned unavailable hours for the TDAFP as the result of an evaluation performed that determined the TDAFP was available. Also, the 10.41 hours of planned unavailable hours has been moved to train 2 to correct a train reporting error.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

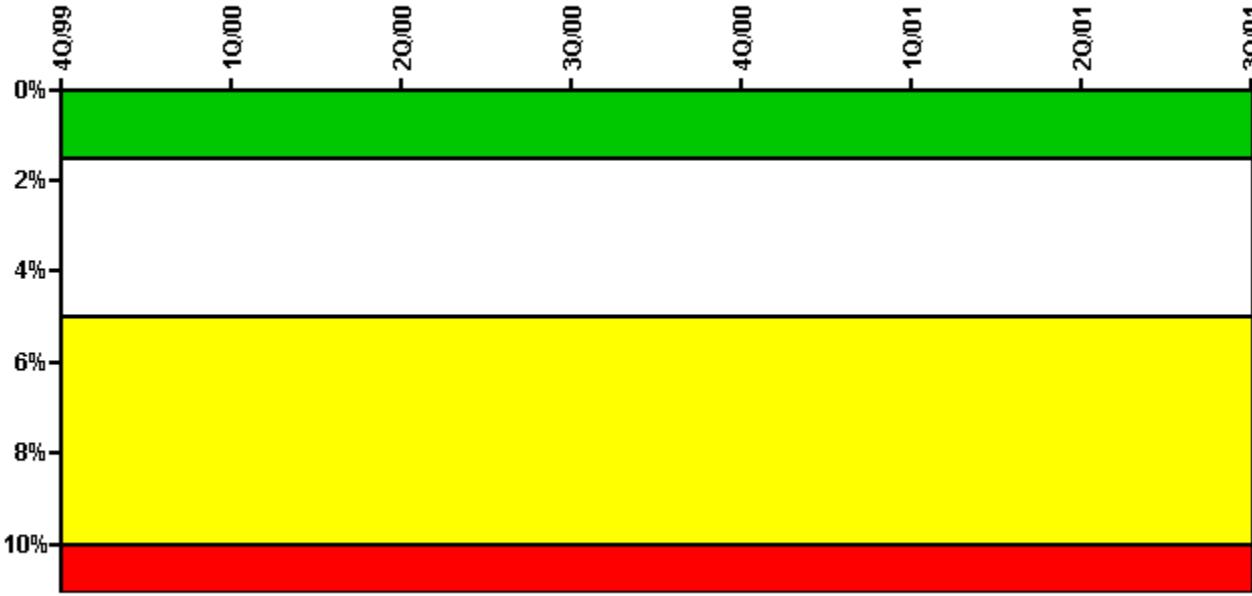
4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
--	-------	-------	-------	-------	-------	-------	-------	-------

Train 1								
Planned unavailable hours	0	0	0	0	11.70	6.63	0	11.78
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	2184.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	0	0	0	0	6.97	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	2184.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value								

Licensee Comments:

3Q/01: Indicator value is N/A due to having less than 12 quarters of data accumulated.

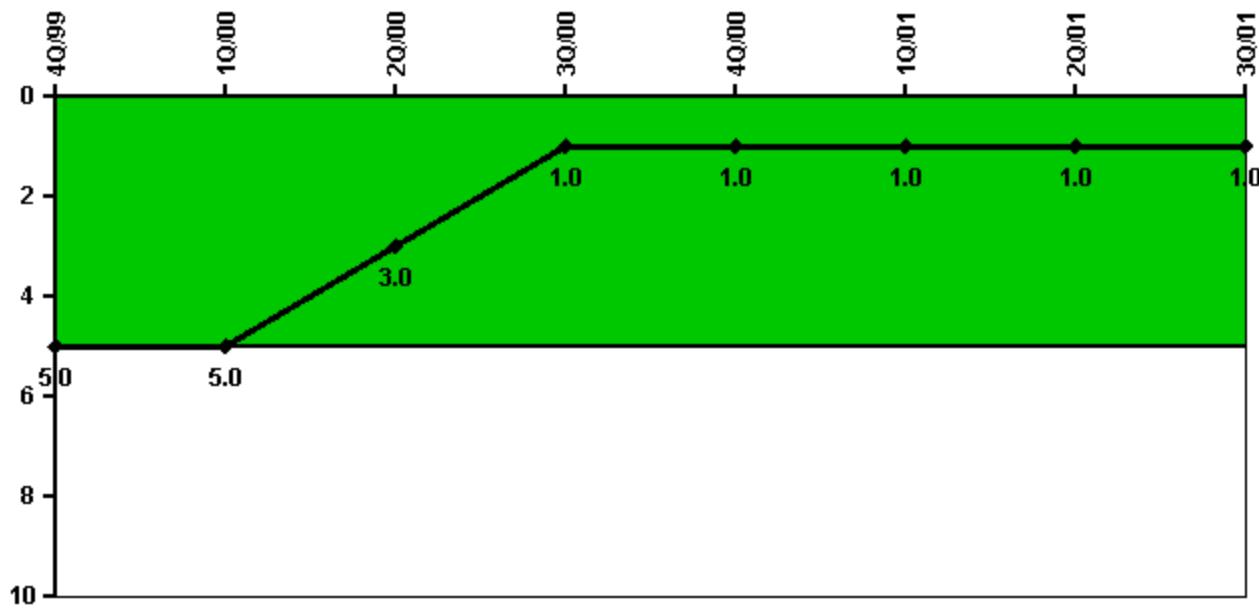
1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Functional Failures (PWR)

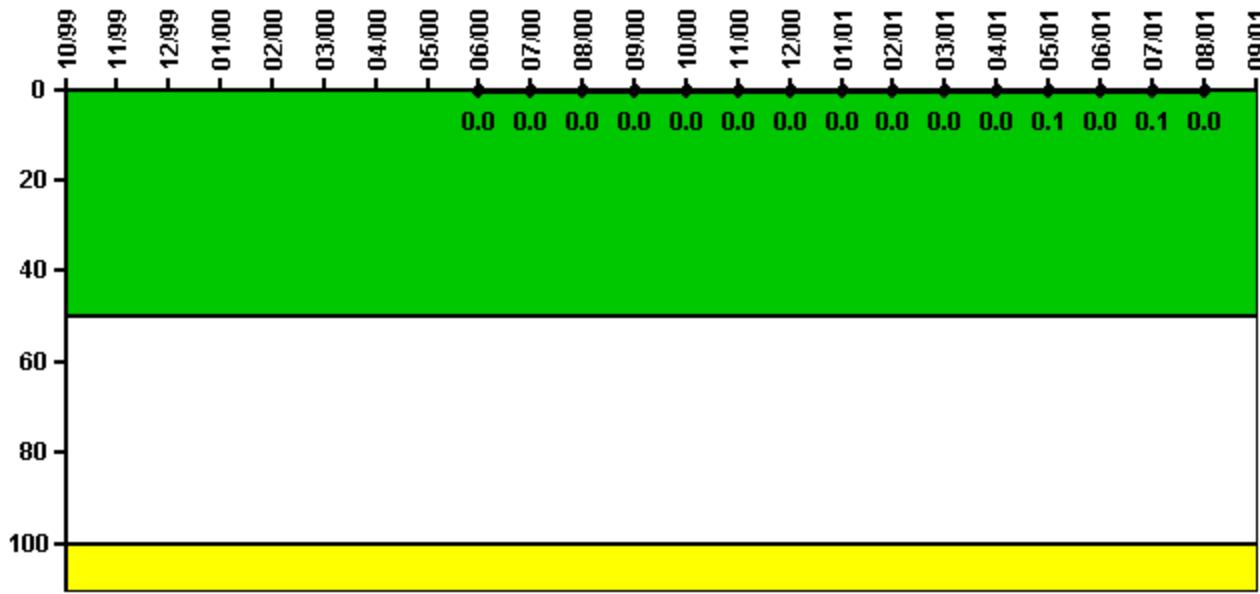
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Safety System Functional Failures	0	1	0	0	0	1	0	0
Indicator value	5	5	3	1	1	1	1	1

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

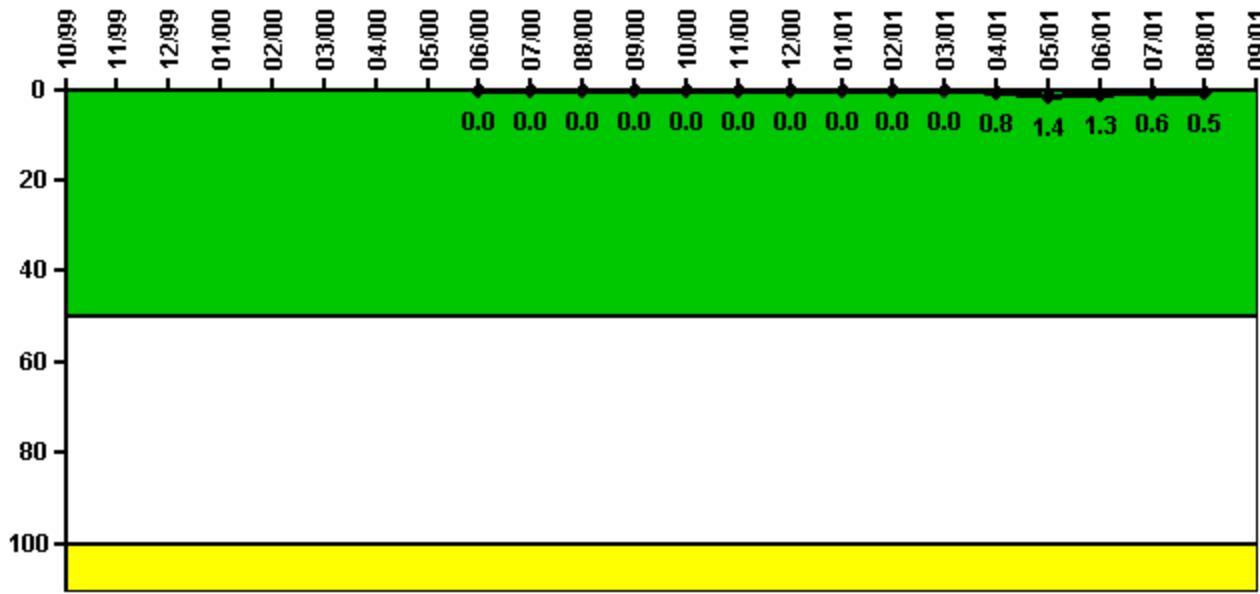
Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity						N/A	N/A	0.000200	0.000311	0.000337	0.000364	
Technical specification limit						1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value						N/A	N/A	0	0	0	0	0

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum activity	0.000363	0.000386	0.000370	0.000394	0.000414	0.000401	0.000407	0.000508	0.000452	0.000677	0.000474	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0.1	0	0.1	0	N/A

Licensee Comments:

9/01: RCS activity was not calculated for the month of September due to the unit shutdown.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

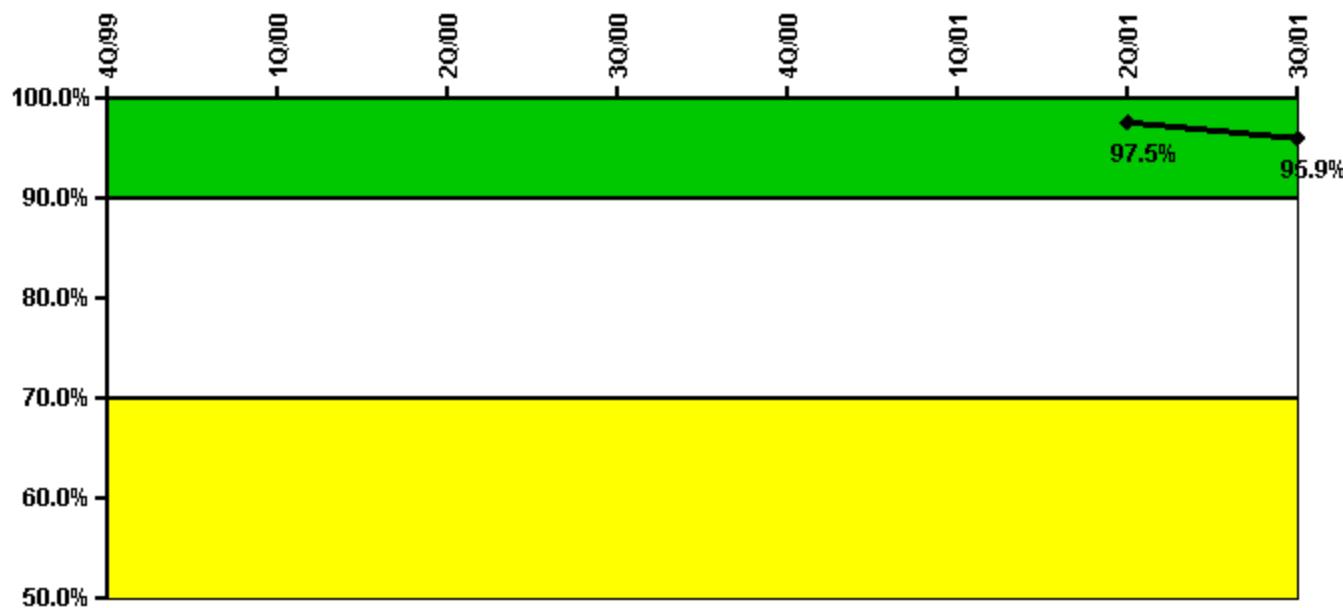
Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage							N/A	N/A	0	0	0	0
Technical specification limit							10.0	10.0	10.0	10.0	10.0	10.0
Indicator value							N/A	N/A	0	0	0	0

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum leakage	0	0	0	0	0	0	0.090	0.150	0.140	0.070	0.050	N/A
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0	0	0	0	0	0	0.8	1.4	1.3	0.6	0.5	N/A

Licensee Comments:

9/01: RCS leakage was not calculated for the month of September due to the unit shutdown.

Drill/Exercise Performance

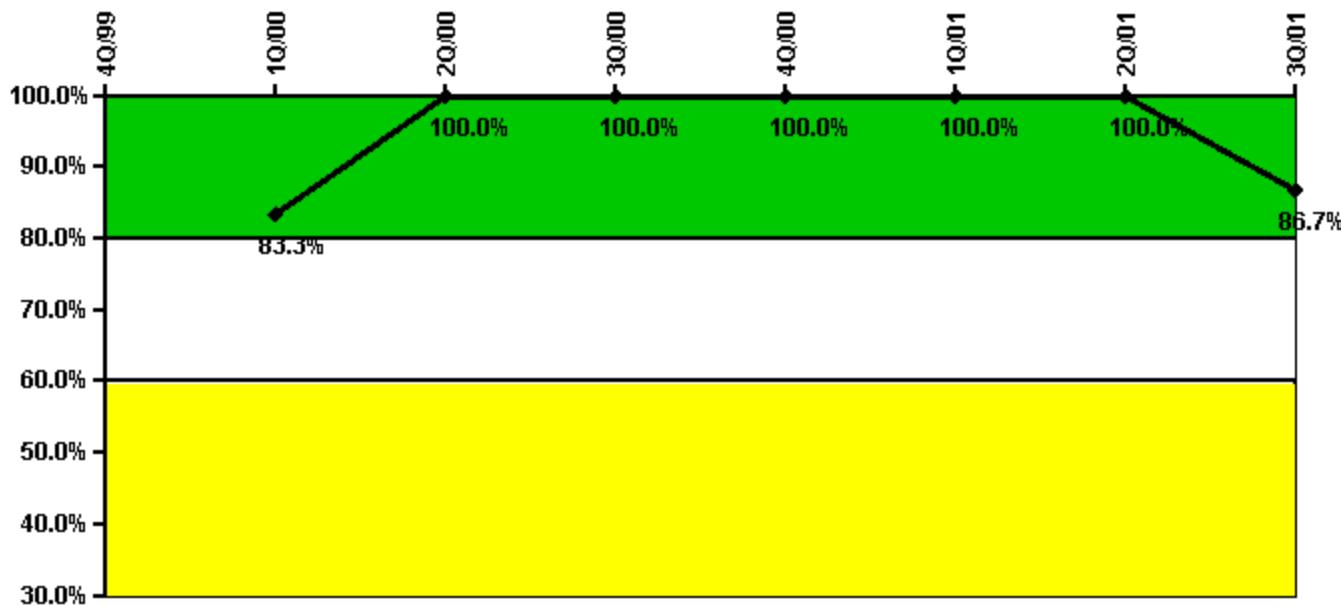
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Successful opportunities	24.0	25.0	56.0	54.0	24.0	44.0	35.0	69.0
Total opportunities	24.0	25.0	59.0	55.0	26.0	44.0	36.0	76.0
Indicator value						97.5%	95.9%	

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

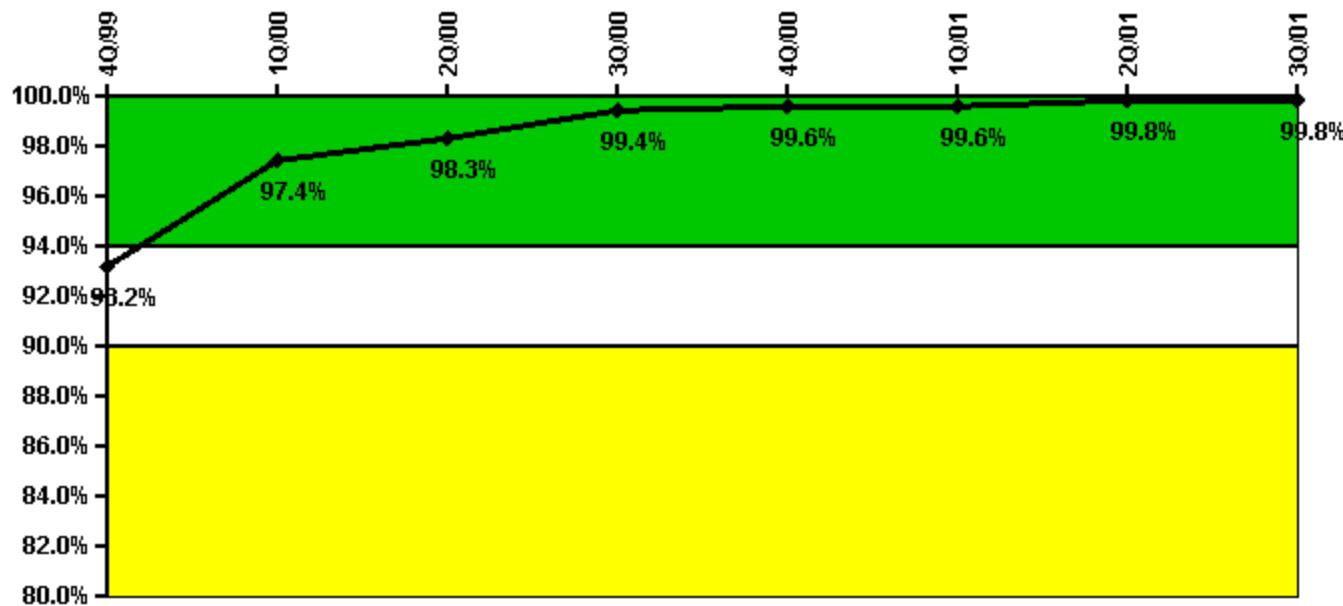
Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Participating Key personnel		35.0	46.0	48.0	50.0	54.0	55.0	111.0
Total Key personnel		42.0	46.0	48.0	50.0	54.0	55.0	128.0
Indicator value		83.3%	100.0%	100.0%	100.0%	100.0%	100.0%	86.7%

Licensee Comments:

3Q/01: Emergency Response Organization Drill Participation is down due to the inclusion of licensed operators to the shift communicator position without evidence of drill participation. Evaluation of the individuals as shift communicators is in progress and is expected to be complete by the next quarterly report.

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Successful siren-tests	207	209	209	210	209	209	210	210
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	93.2%	97.4%	98.3%	99.4%	99.6%	99.6%	99.8%	99.8%

Licensee Comments: none

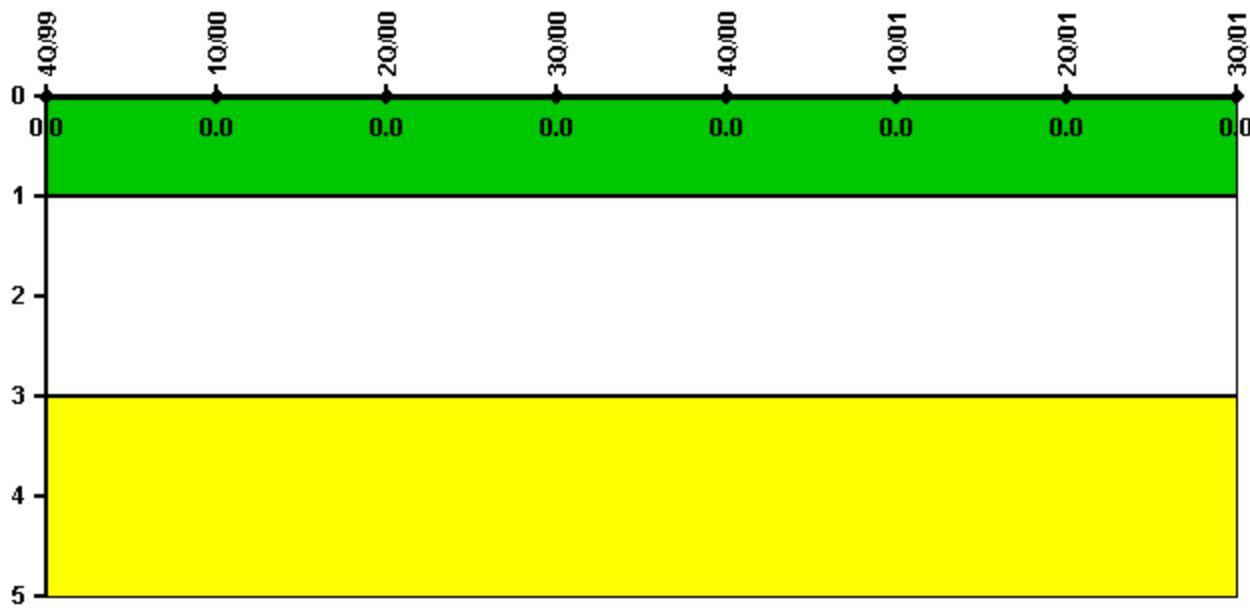
Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

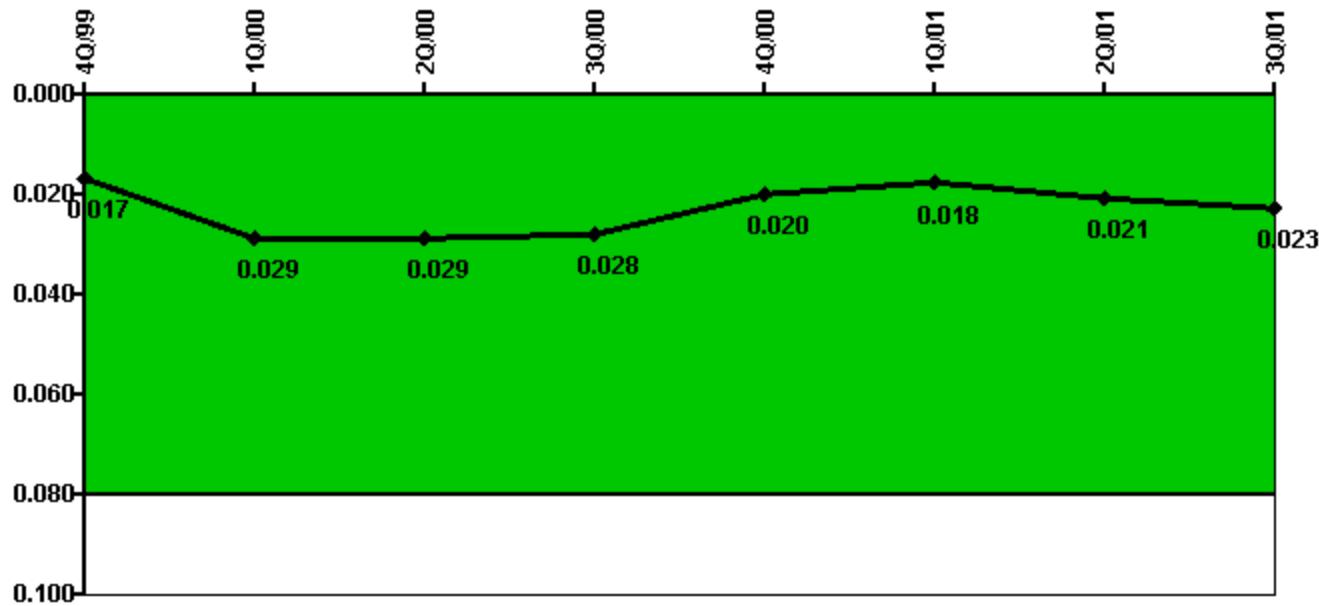
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

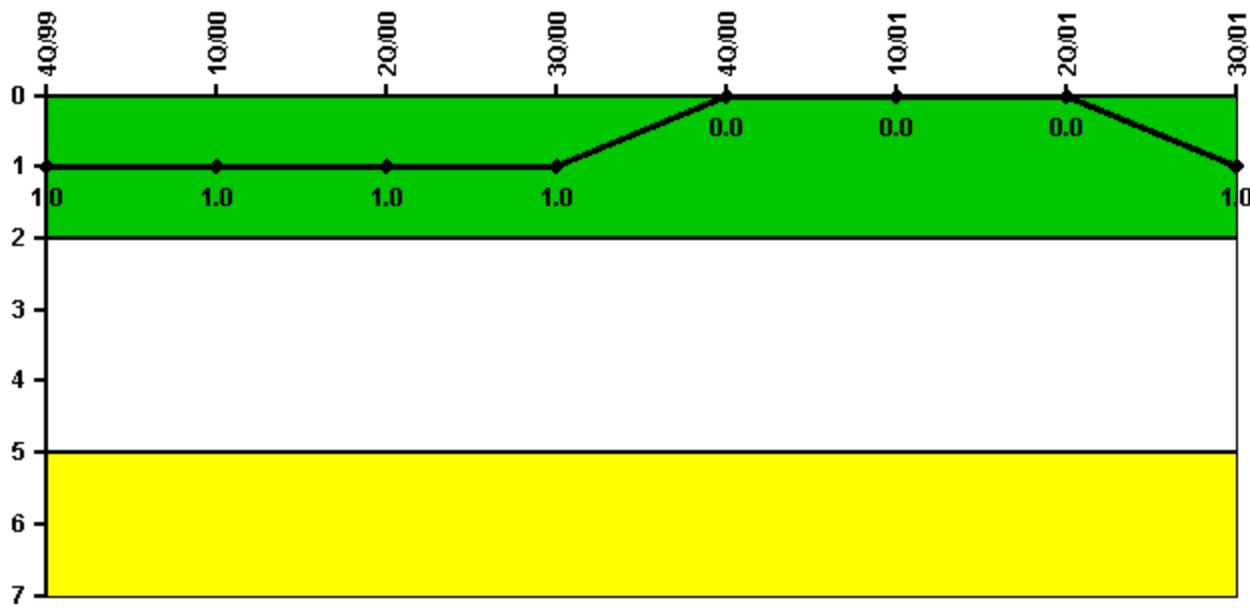
Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
IDS compensatory hours	199.30	364.70	31.80	4.05	40.38	376.40	97.80	49.50
CCTV compensatory hours	16.7	38.5	0	0.1	0	0	0.3	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.017	0.029	0.029	0.028	0.020	0.018	0.021	0.023

Licensee Comments:

3Q/01: In accordance with NEI 99-02, compensatory hours associated with scheduled equipment upgrades that are being performed and those compensatory hours for configuration issues associated with the equipment upgrades are excluded.

Personnel Screening Program



Thresholds: White > 2.0 Yellow > 5.0

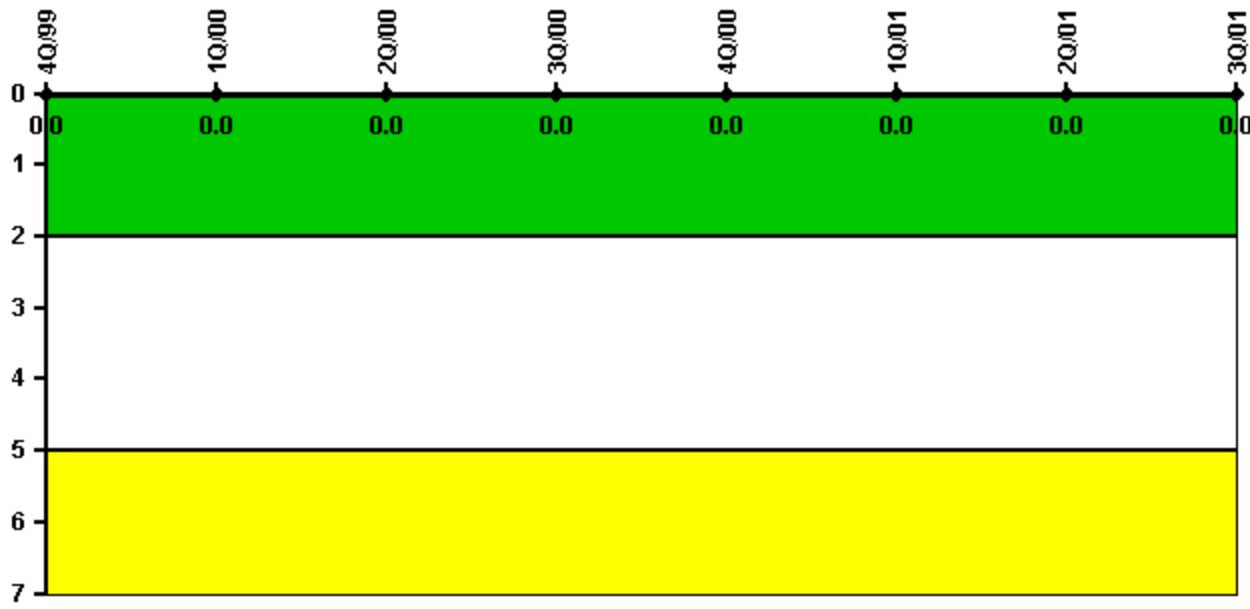
Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Program failures	1	0	0	0	0	0	0	1
Indicator value	1	1	1	1	0	0	0	1

Licensee Comments:

3Q/01: The Personnel Screening Program failure was a one-hour reportable entry of an unauthorized person to the protected area. The individual was a contracted security guard who had resigned his position the previous day without the required access suspension. Immediate corrective actions were initiated upon discovery of the event.

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Program Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

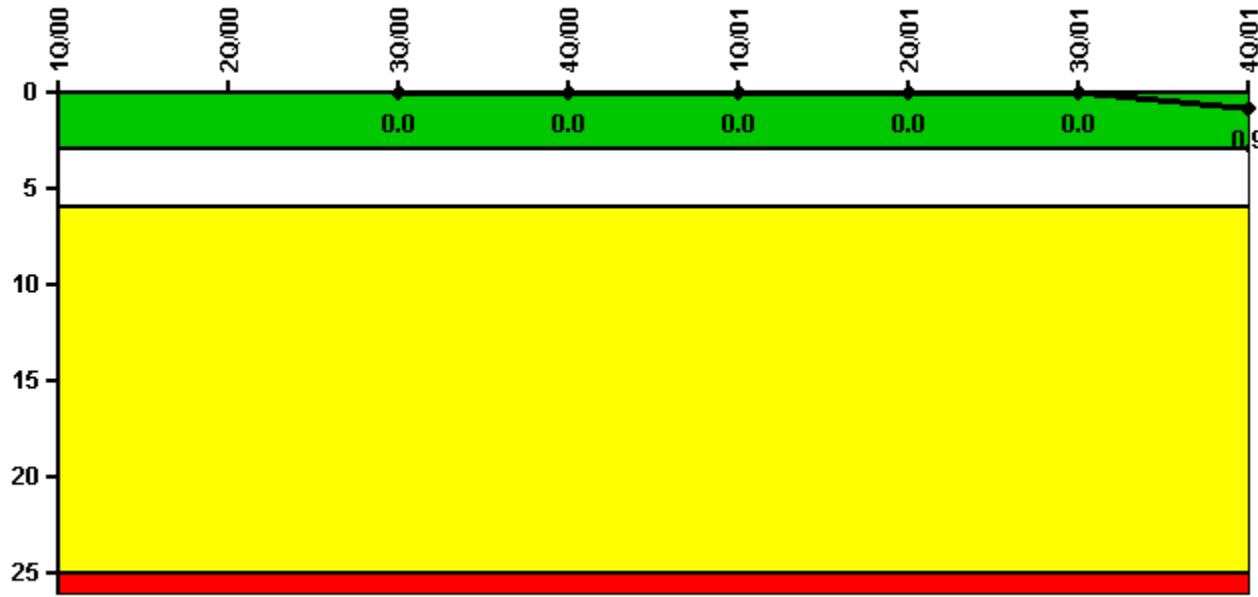


[PI Summary](#) | [Inspection Findings Summary](#) | [Action Matrix Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 26, 2002

D.C. Cook 2**4Q/2001 Performance Indicators**

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

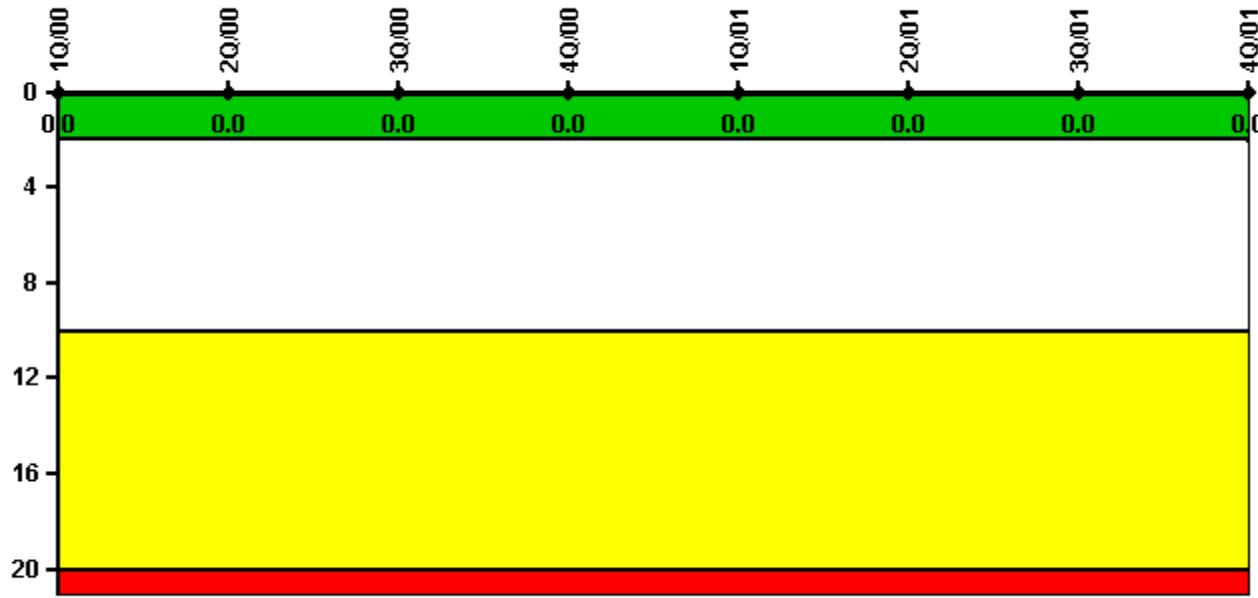
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	0	197.0	2208.0	2209.0	2076.0	2183.0	1454.0	2008.0
Indicator value	N/A	N/A	0	0	0	0	0	0.9

Licensee Comments:

4Q/01: Unit 2 experienced a reactor trip due to a loss of rod control system voltage caused by a failed resistor in a voltage regulator for the control rod drive motor generator sets.

Scrams with Loss of Normal Heat Removal

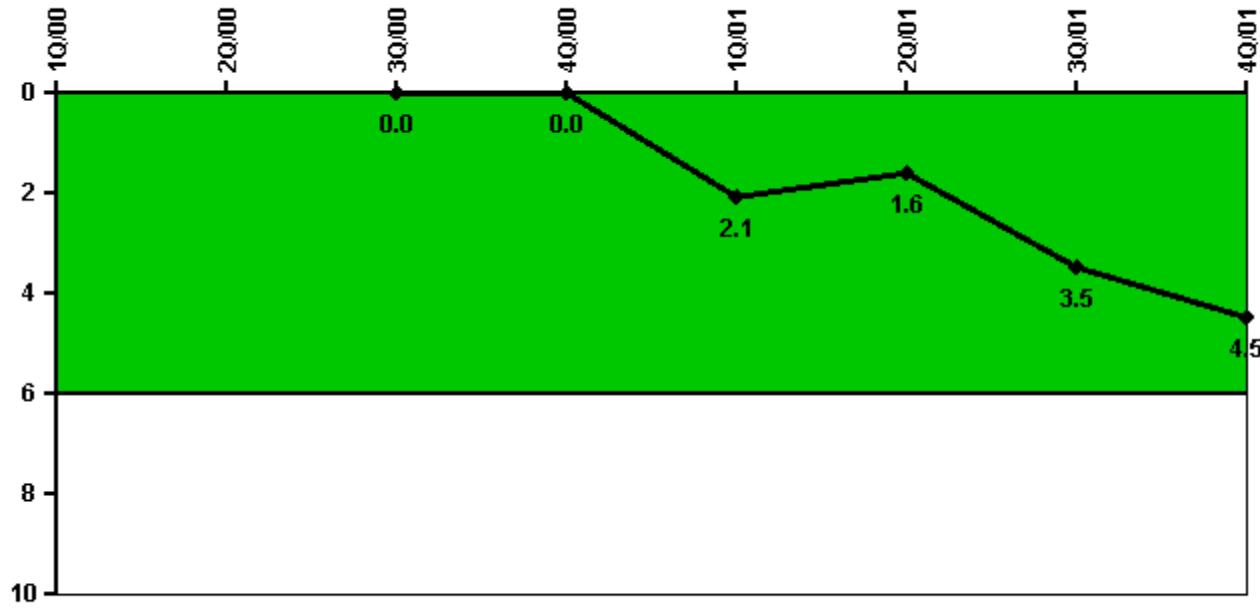
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Scrams	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned power changes	0	0	0	0	2.0	0	2.0	1.0
Critical hours	0	197.0	2208.0	2209.0	2076.0	2183.0	1454.0	2008.0
Indicator value	N/A	N/A	0	0	2.1	1.6	3.5	4.5

Licensee Comments:

4Q/01: Unit 2 reduced power to clean main feed pump condenser fouling caused by weather induced lake conditions.

Safety System Unavailability, Emergency AC Power



Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	0	4.45	8.20	20.78	0.47	5.20	0.30	1.20
Unplanned unavailable hours	0	0	0	0	0	0	0.90	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	2184.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0	6.20	0	13.30	27.25	26.18	0.58	2.22
Unplanned unavailable hours	0	0	0	0	0	0	0.90	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	2184.00	2208.00	2209.00	2160.00	2183.00	1524.50	2209.00
Indicator value								0.4%

Licensee Comments:

4Q/01: In accordance with FAQ 291, approved November 15, 2001, a change report was submitted to "zero-sum" the time from 1Q1999 to 2Q2000 to provide for an indicator calculation.

4Q/00: Change made to add planned unavailable hours to train 1EDG to account for CO2 testing.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, High Pressure Injection System (HPSI)



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)		1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1									
Planned unavailable hours		0	0	7.50	9.18	0	0	0	15.45
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		0	581.00	2208.00	2209.00	2160.00	2183.00	1524.47	2209.00
Train 2									
Planned unavailable hours		0	0	0	0	16.65	0	20.92	0
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		0	581.00	2208.00	2209.00	2160.00	2183.00	1501.97	2209.00
Train 3									
Planned unavailable hours		0	0	0	3.72	13.83	0	0	0
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		0	453.60	2208.00	2209.00	2160.00	2183.00	1524.47	2209.00
Train 4									
Planned unavailable hours		0	0	4.97	0	0	5.57	0	12.48
Unplanned unavailable hours		0	11.25	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		0	453.60	2208.00	2209.00	2160.00	2183.00	1501.97	2209.00

Indicator value		0.2%
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Licensee Comments:

4Q/01: In accordance with FAQ 291, approved November 15, 2001, a change report was submitted to "zero-sum" the time from 1Q1999 to 2Q2000 to provide for an indicator calculation.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

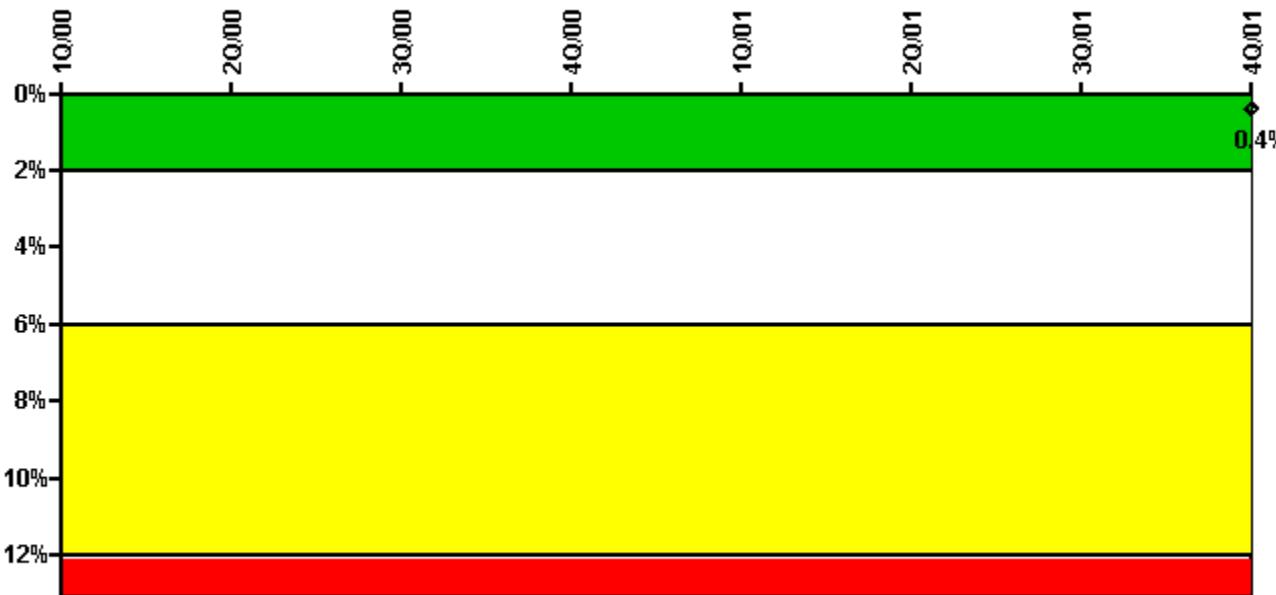
4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, Heat Removal System (AFW)



Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	454.00	2208.00	2209.00	2160.00	2183.00	1579.05	2209.00
Train 3								
Planned unavailable hours	0	0	0	0	11.98	0	5.75	0
Unplanned unavailable hours	0	0	0	0	0	0	32.39	0
Fault exposure hours	0	78.06	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	454.00	2208.00	2209.00	2160.00	2183.00	1579.05	2209.00
Indicator value								0.4%

Licensee Comments:

4Q/01: In accordance with FAQ 291, approved November 15, 2001, a change report was submitted to "zero-sum" the time from 1Q1999 to 2Q2000 to provide for an indicator calculation.

3Q/01: In accordance with FAQ 291, approved November 15, 2001, a change report was submitted to remove the T/2 fault exposure hours from the PI calculation. The fault exposure hours were for Train 3, Turbine Driven Auxiliary Feed Pump (TDAFP). The fault exposure was a demand failure where the time of occurrence and exposure is unknown. Fault exposure hours were estimated using half of the time (T/2) since the last successful test of the TDAFP. The total T/2 fault exposure was 1007.49 hours.

2Q/01: In accordance with FAQ 291, approved November 15, 2001, a change report was submitted to remove the T/2 fault exposure hours from the PI calculation.

4Q/00: Change report submitted to remove unplanned unavailable hours for the TDAFP as the result of an evaluation performed that determined the TDAFP was available. Also, the 10.41 hours of planned unavailable hours has been moved to train 2 to correct a train reporting error.

1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System		1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1									
Planned unavailable hours		0	0	0	11.70	6.63	0	11.78	0
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		0	2184.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2									
Planned unavailable hours		0	0	0	0	6.97	0	0	0
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		0	2184.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value									0.1%

Licensee Comments:

4Q/01: In accordance with FAQ 291, approved November 15, 2001, a change report was submitted to "zero-sum" the time from 1Q1999 to 2Q2000 to provide for an indicator calculation.

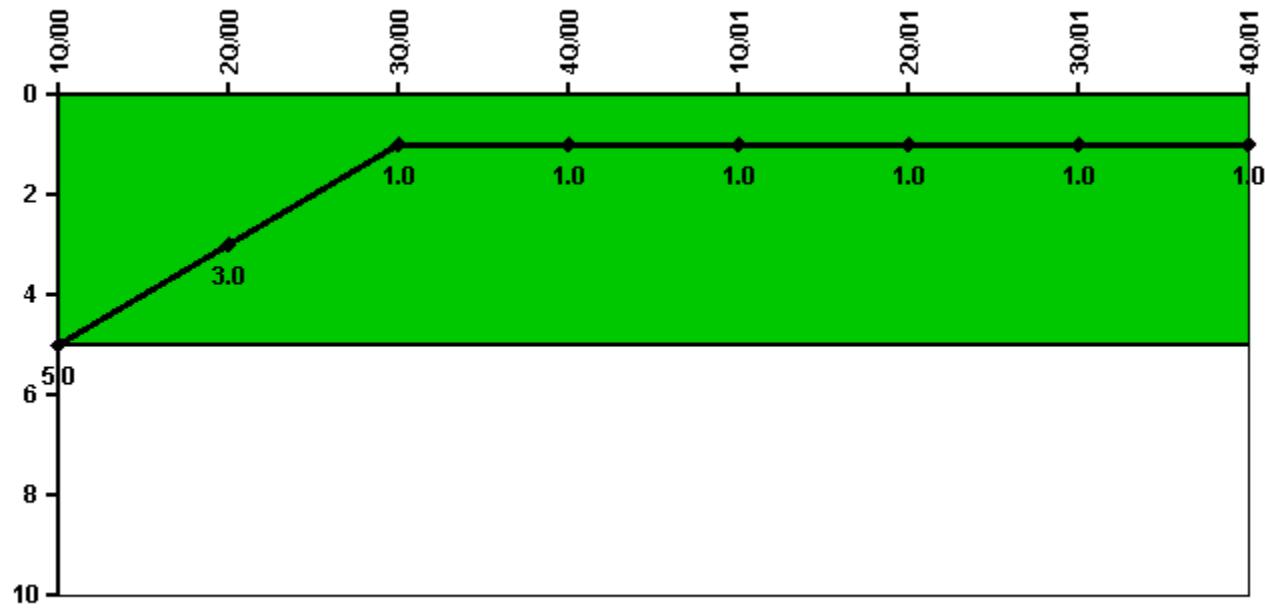
1Q/00: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

4Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

3Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

2Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Functional Failures (PWR)

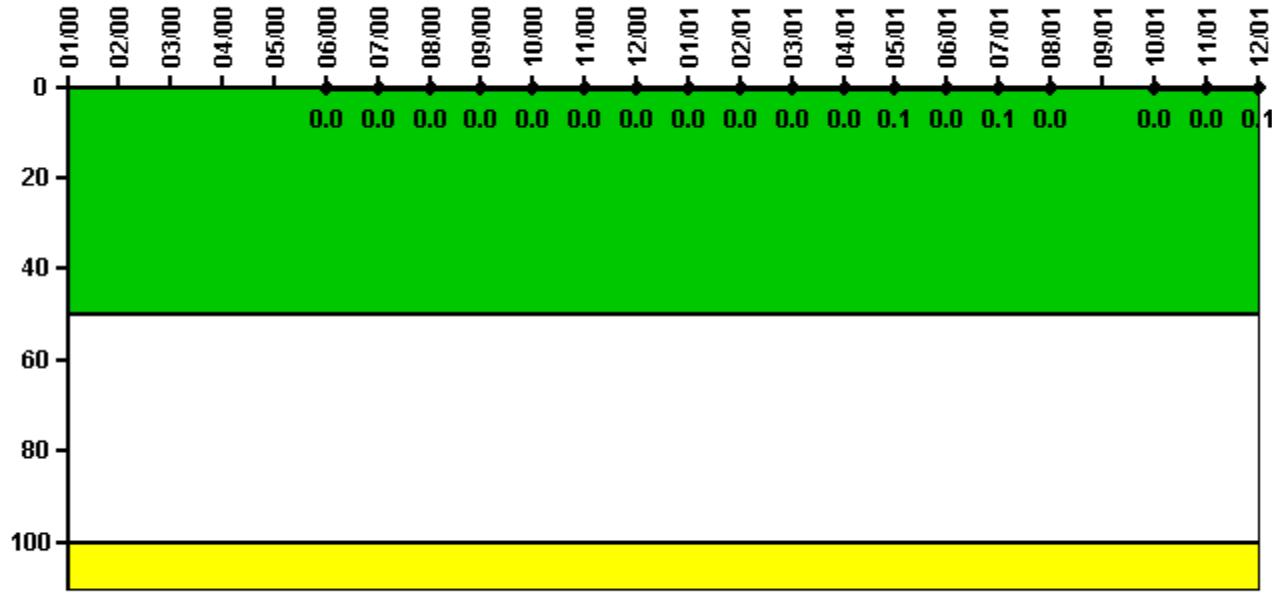
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Safety System Functional Failures	1	0	0	0	1	0	0	0
Indicator value	5	3	1	1	1	1	1	1

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

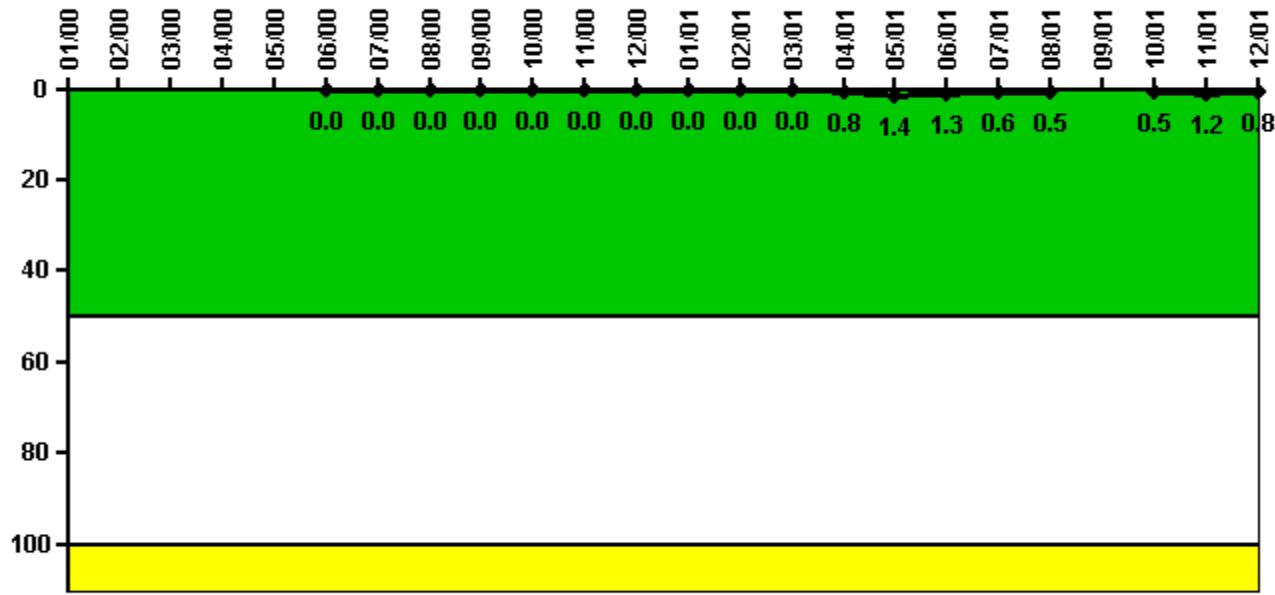
Notes

Reactor Coolant System Activity	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum activity				N/A	N/A	0.000200	0.000311	0.000337	0.000364	0.000363	0.000386	0.000370
Technical specification limit				1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value				N/A	N/A	0	0	0	0	0	0	0

Reactor Coolant System Activity	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum activity	0.000394	0.000414	0.000401	0.000407	0.000508	0.000452	0.000677	0.000474	N/A	0.000480	0.000497	0.000515
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0.1	0	0.1	0	N/A	0	0	0.1

Licensee Comments: none

Reactor Coolant System Leakage

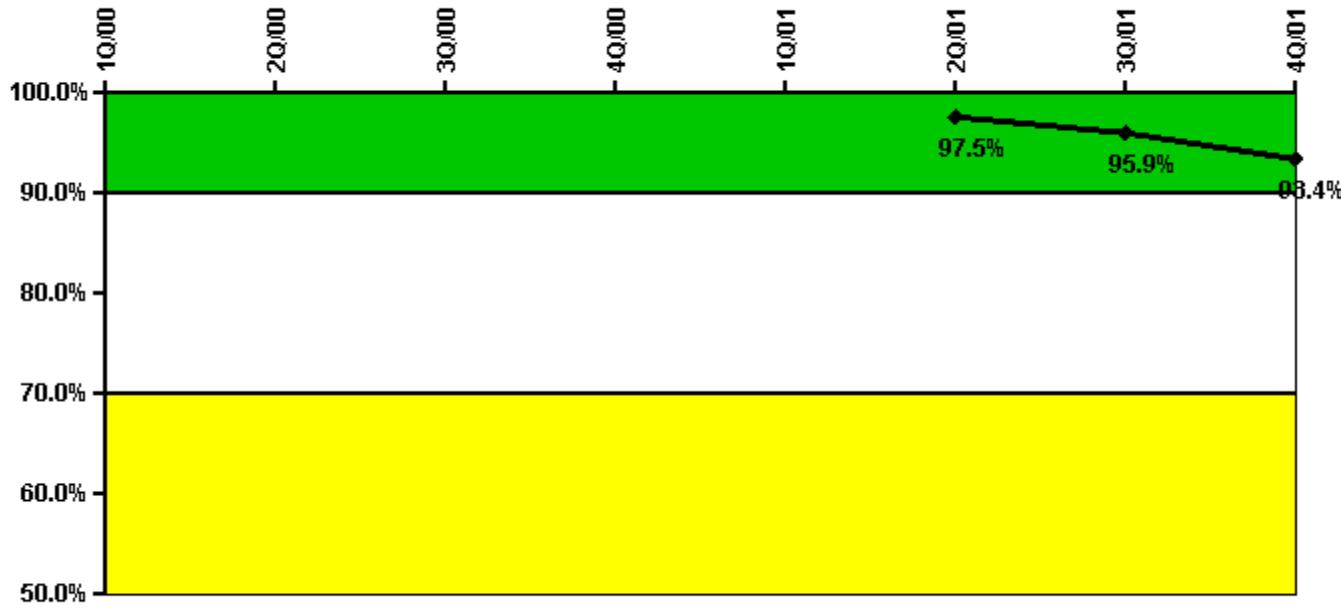


Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage				N/A	N/A	0	0	0	0	0	0	0
Technical specification limit				10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value				N/A	N/A	0	0	0	0	0	0	0
Reactor Coolant System Leakage	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum leakage	0	0	0	0.090	0.150	0.140	0.070	0.050	N/A	0.050	0.130	0.090
Technical specification limit	10.0	10.0	10.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0	0	0	0.8	1.4	1.3	0.6	0.5	N/A	0.5	1.2	0.8

Licensee Comments: none

Drill/Exercise Performance

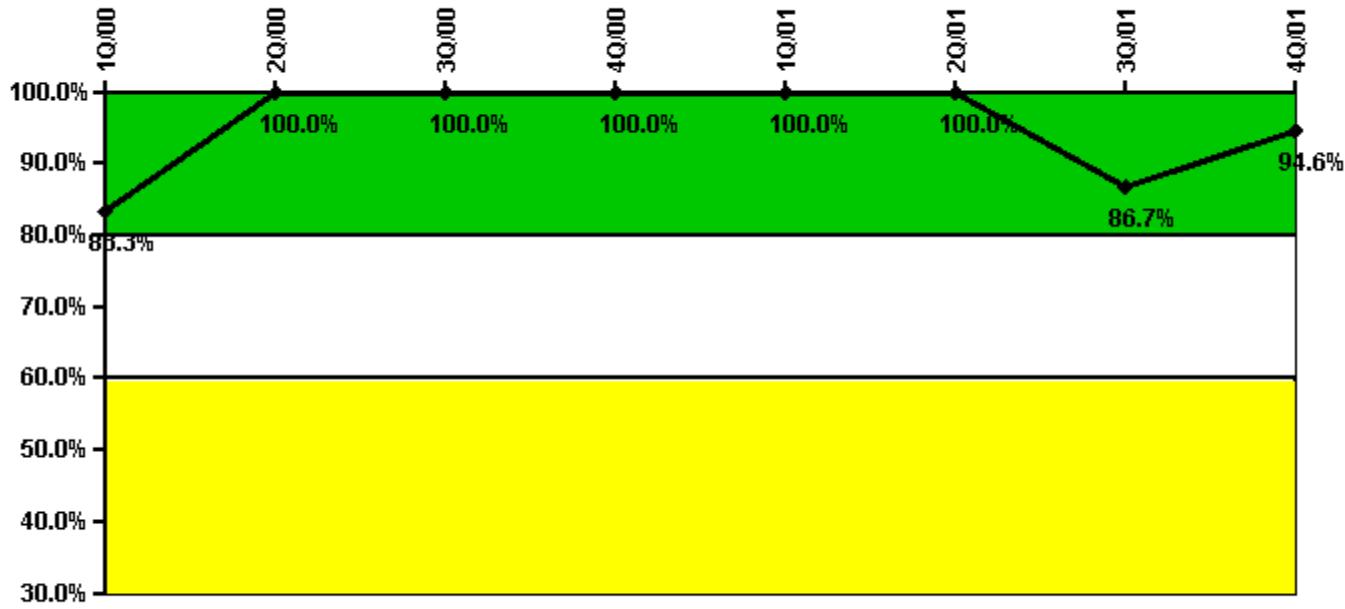
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful opportunities	25.0	56.0	54.0	24.0	44.0	35.0	69.0	89.0
Total opportunities	25.0	59.0	55.0	26.0	44.0	36.0	76.0	103.0
Indicator value					97.5%	95.9%	93.4%	

Licensee Comments: none

ERO Drill Participation



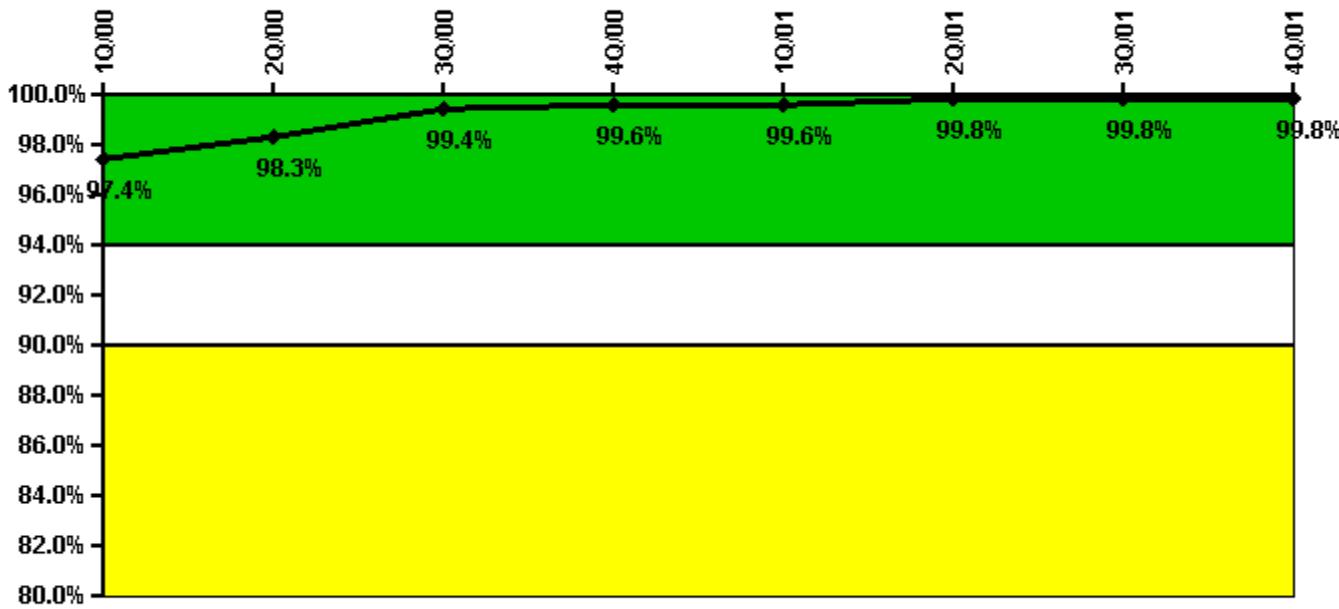
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Participating Key personnel	35.0	46.0	48.0	50.0	54.0	55.0	111.0	123.0
Total Key personnel	42.0	46.0	48.0	50.0	54.0	55.0	128.0	130.0
Indicator value	83.3%	100.0%	100.0%	100.0%	100.0%	100.0%	86.7%	94.6%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful siren-tests	209	209	210	209	209	210	210	209
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	97.4%	98.3%	99.4%	99.6%	99.6%	99.8%	99.8%	99.8%

Licensee Comments: none

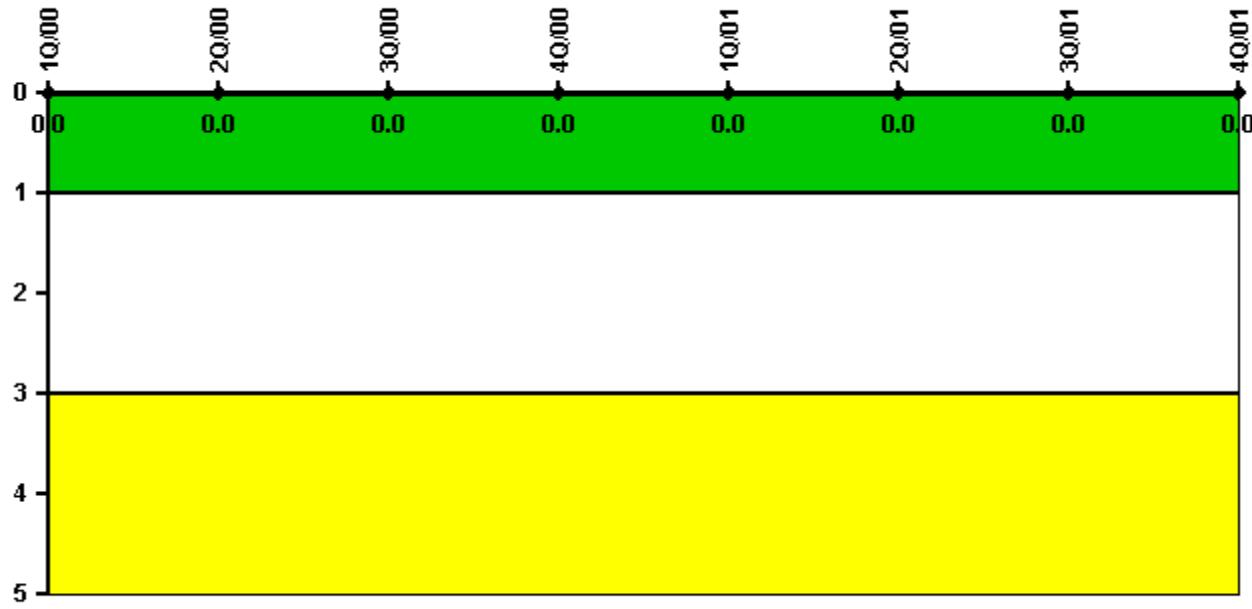
Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

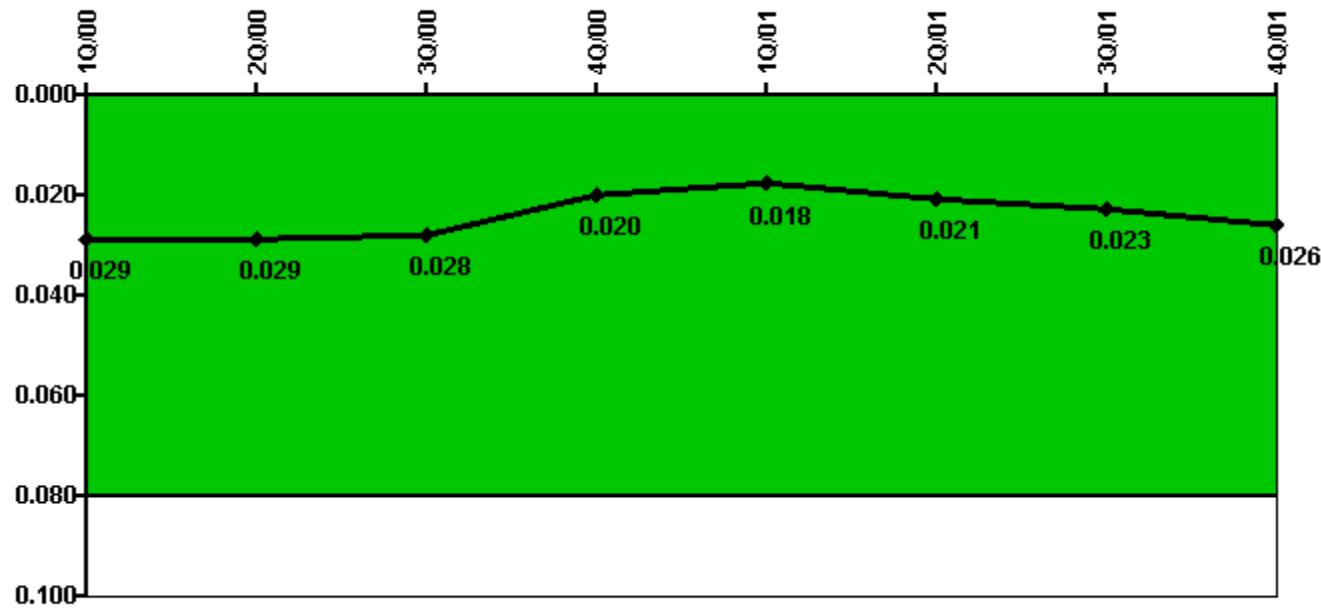
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



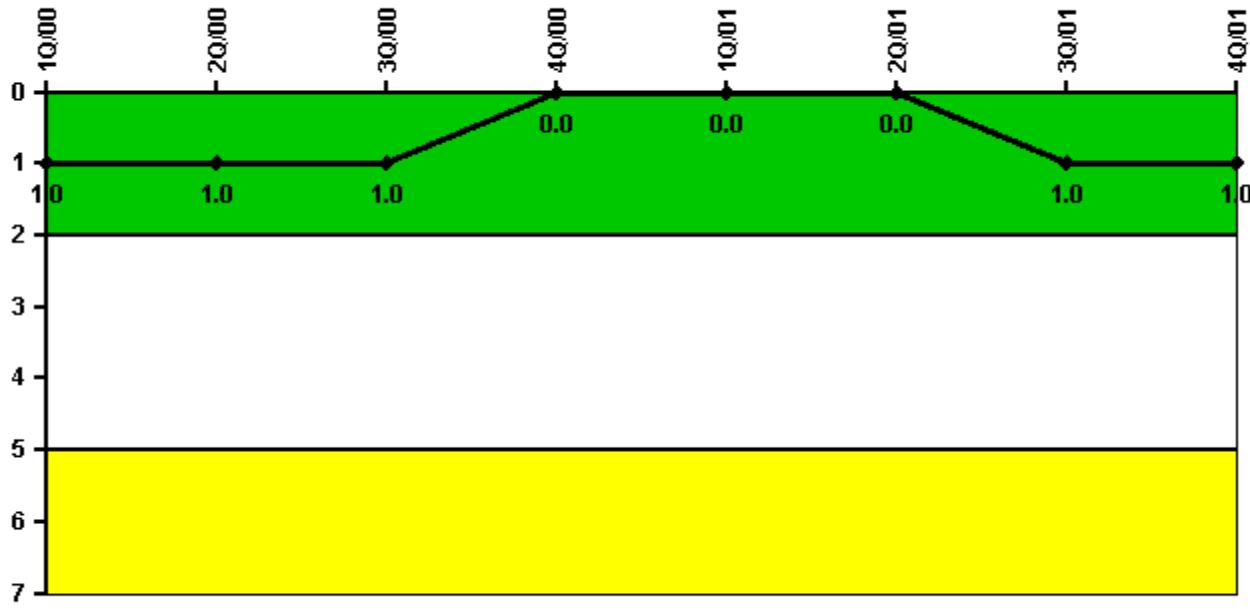
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
IDS compensatory hours	364.70	31.80	4.05	40.38	376.40	97.80	49.50	103.70
CCTV compensatory hours	38.5	0	0.1	0	0	0.3	0	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.029	0.029	0.028	0.020	0.018	0.021	0.023	0.026

Licensee Comments:

4Q/01: In accordance with NEI 99-02, compensatory hours associated with scheduled equipment upgrades that are being performed and those compensatory hours for configuration issues associated with the equipment upgrades are excluded.

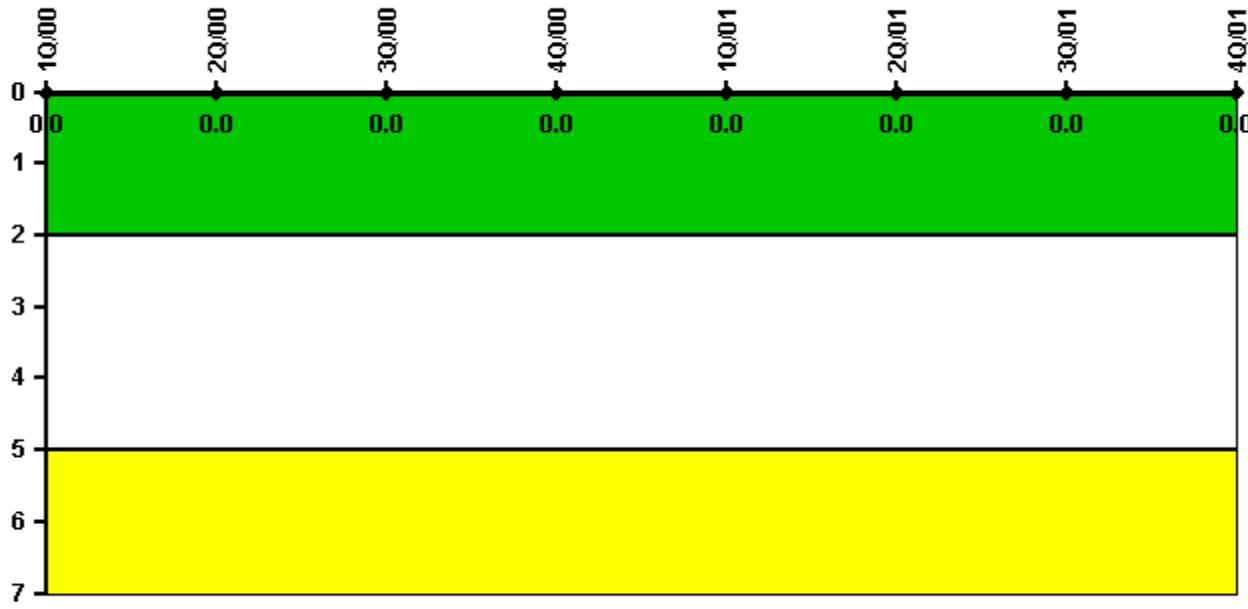
Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Program failures	0	0	0	0	0	0	1	0
Indicator value	1	1	1	0	0	0	1	1

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Program Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

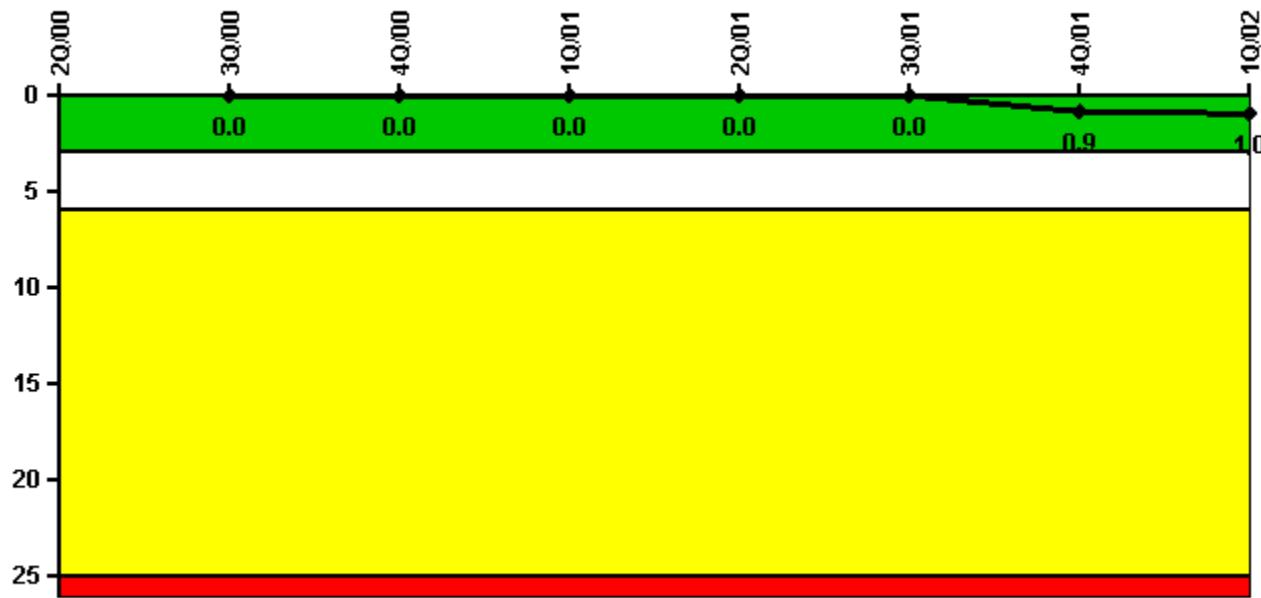


[PI Summary](#) | [Inspection Findings Summary](#) | [Action Matrix Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 15, 2002

D.C. Cook 2**1Q/2002 Performance Indicators**

Licensee's General Comments: none

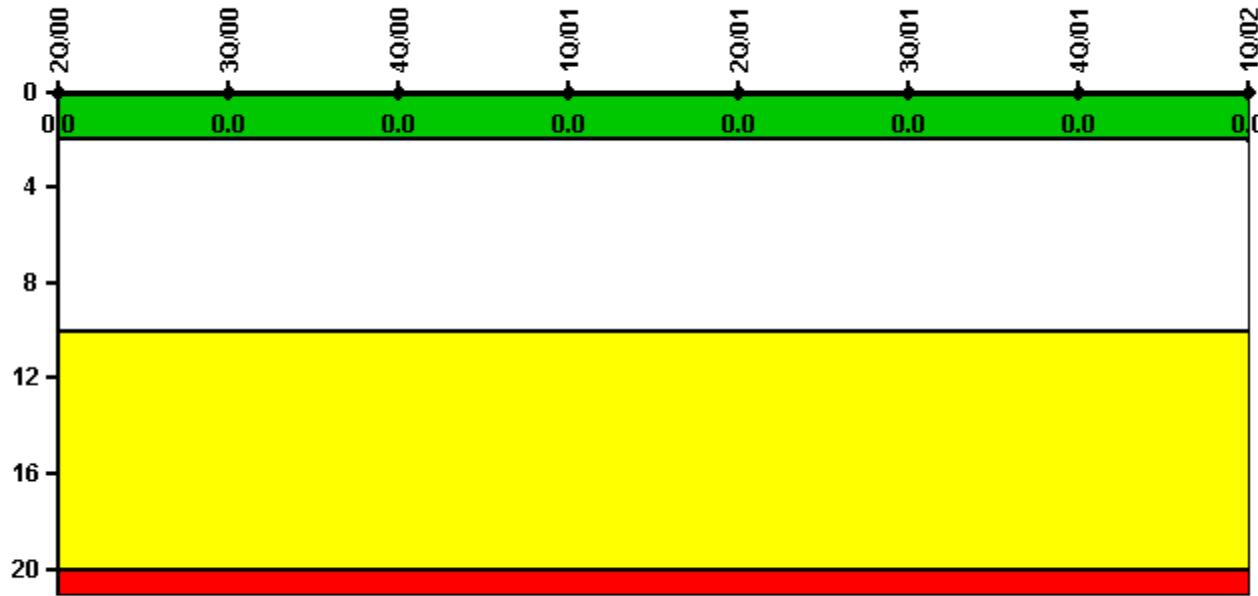
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	197.0	2208.0	2209.0	2076.0	2183.0	1454.0	2008.0	1261.5
Indicator value	N/A	0	0	0	0	0	0.9	1.0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

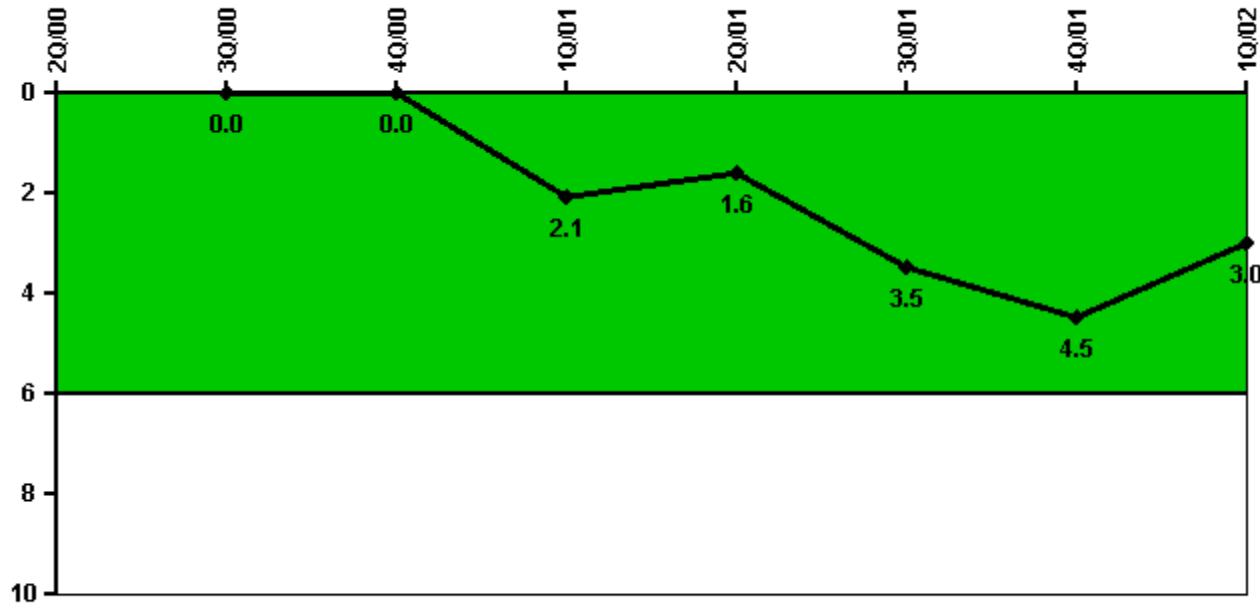
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Scrams	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



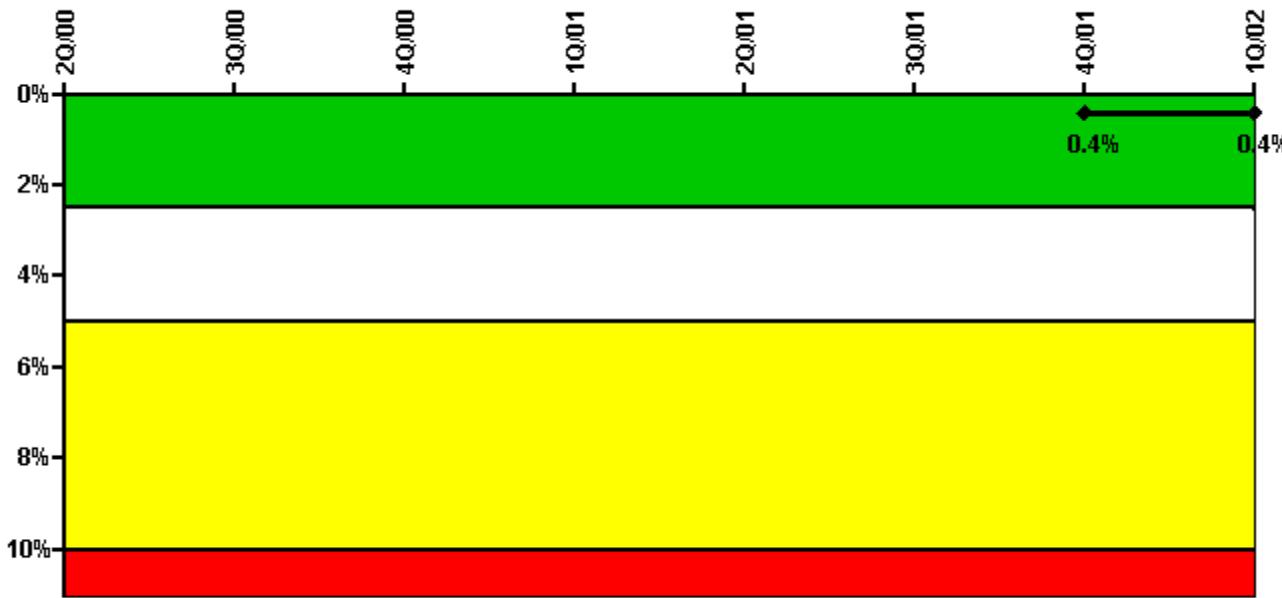
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned power changes	0	0	0	2.0	0	2.0	1.0	0
Critical hours	197.0	2208.0	2209.0	2076.0	2183.0	1454.0	2008.0	1261.5
Indicator value	N/A	0	0	2.1	1.6	3.5	4.5	3.0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

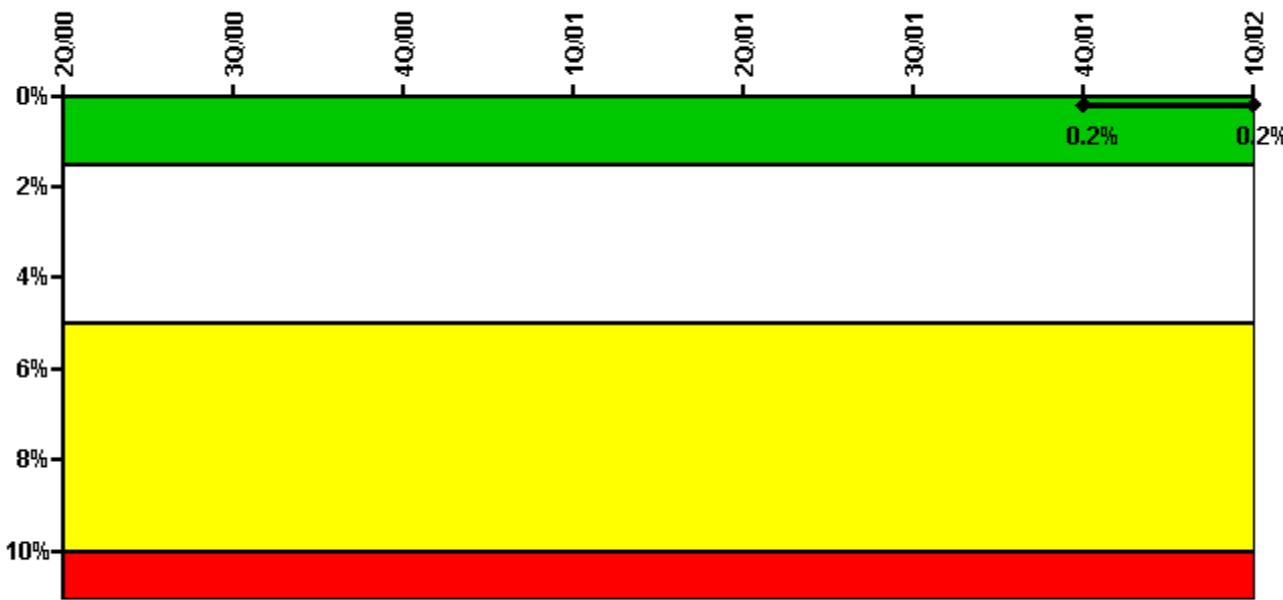
Notes

Safety System Unavailability, Emergency AC Power	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	4.45	8.20	20.78	0.47	5.20	0.30	1.20	5.38
Unplanned unavailable hours	0	0	0	0	0	0.90	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	1903.80
Train 2								
Planned unavailable hours	6.20	0	13.30	27.25	26.18	0.58	2.22	0.20
Unplanned unavailable hours	0	0	0	0	0	0.90	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2208.00	2209.00	2160.00	2183.00	1524.50	2209.00	2064.00
Indicator value							0.4%	0.4%

Licensee Comments:

1Q/99: Hours for this quarter have been "zero-summed" to provide for a 4Q2001 indicator calculation in accordance with FAQ 291 approved November 15, 2001.

Safety System Unavailability, High Pressure Injection System (HPSI)



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	0	7.50	9.18	0	0	0	15.45	11.00
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	581.00	2208.00	2209.00	2160.00	2183.00	1524.47	2209.00	1389.76
Train 2								
Planned unavailable hours	0	0	0	16.65	0	20.92	0	1.87
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	581.00	2208.00	2209.00	2160.00	2183.00	1501.97	2209.00	1329.94
Train 3								
Planned unavailable hours	0	0	3.72	13.83	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	453.60	2208.00	2209.00	2160.00	2183.00	1524.47	2209.00	1389.76
Train 4								
Planned unavailable hours	0	4.97	0	0	5.57	0	12.48	0
Unplanned unavailable hours	11.25	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	453.60	2208.00	2209.00	2160.00	2183.00	1501.97	2209.00	1329.94
Indicator value							0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	0.98	0	0	5.58	0	1.32	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	454.00	2208.00	2209.00	2160.00	2183.00	1579.05	2209.00	438.92
Train 2								
Planned unavailable hours	1.10	0	10.41	0	1.00	1.85	0	2.52
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	454.00	2208.00	2209.00	2160.00	2183.00	1579.05	2209.00	438.92
Train 3								
Planned unavailable hours	0	0	0	11.98	0	5.75	0	0
Unplanned unavailable hours	0	0	0	0	0	32.39	0	14.79
Fault exposure hours	78.06	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	454.00	2208.00	2209.00	2160.00	2183.00	1579.05	2209.00	438.92
Indicator value							0.4%	0.4%

Licensee Comments:

1Q/02: The TDAFP failed to start during quarterly response time testing on January 18, 2002. T/2 fault exposure time incurred for this failure to start is 930.82 hours. The cause of this failure and the previous failure to start in August 2001, has been determined to be an incorrectly manufactured trip hook.

Safety System Unavailability, Residual Heat Removal System

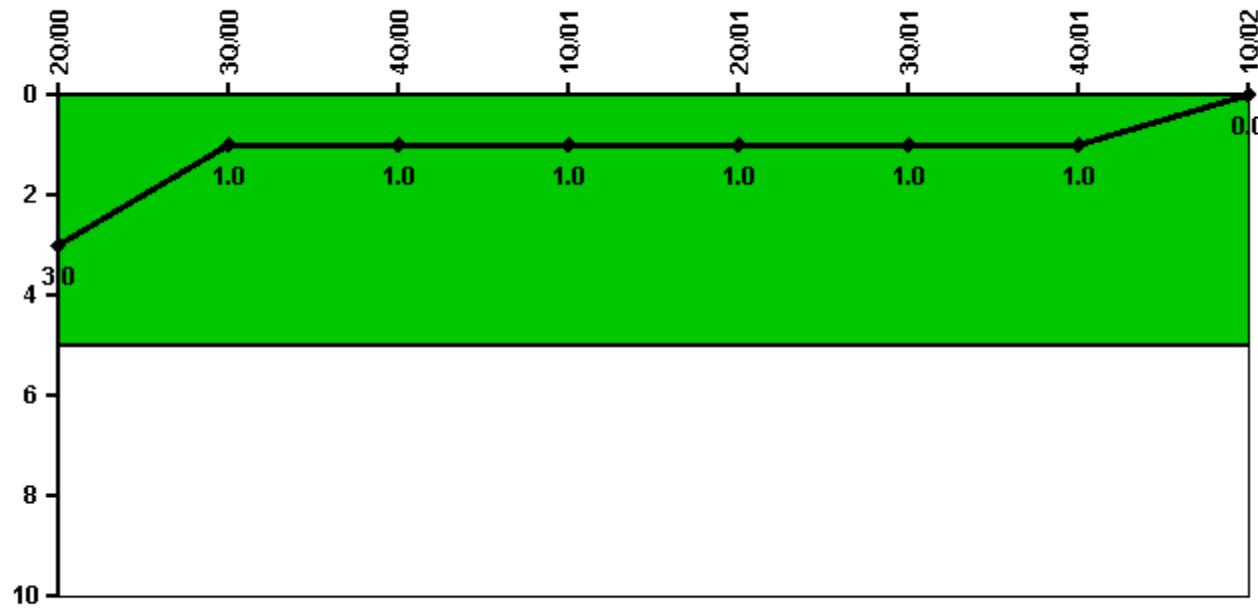


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System		2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1									
Planned unavailable hours		0	0	11.70	6.63	0	11.78	0	15.62
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2184.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	1857.00
Train 2									
Planned unavailable hours		0	0	0	6.97	0	0	0	7.58
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2184.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	1857.00
Indicator value								0.1%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)

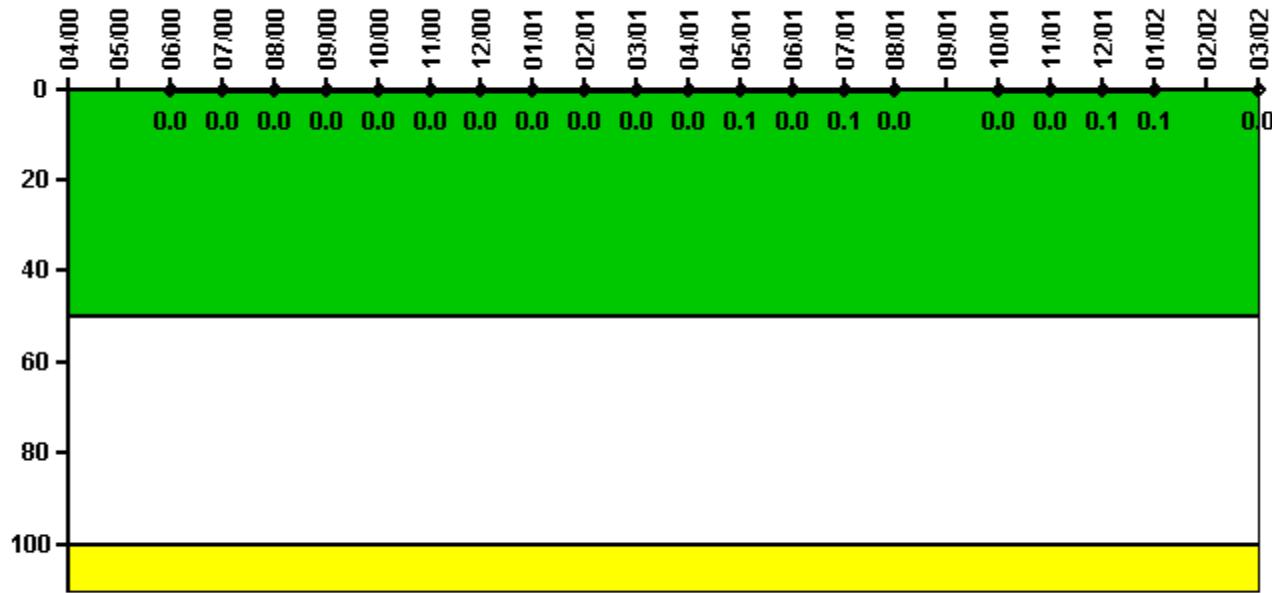
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Safety System Functional Failures	0	0	0	1	0	0	0	0
Indicator value	3	1	1	1	1	1	1	0

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

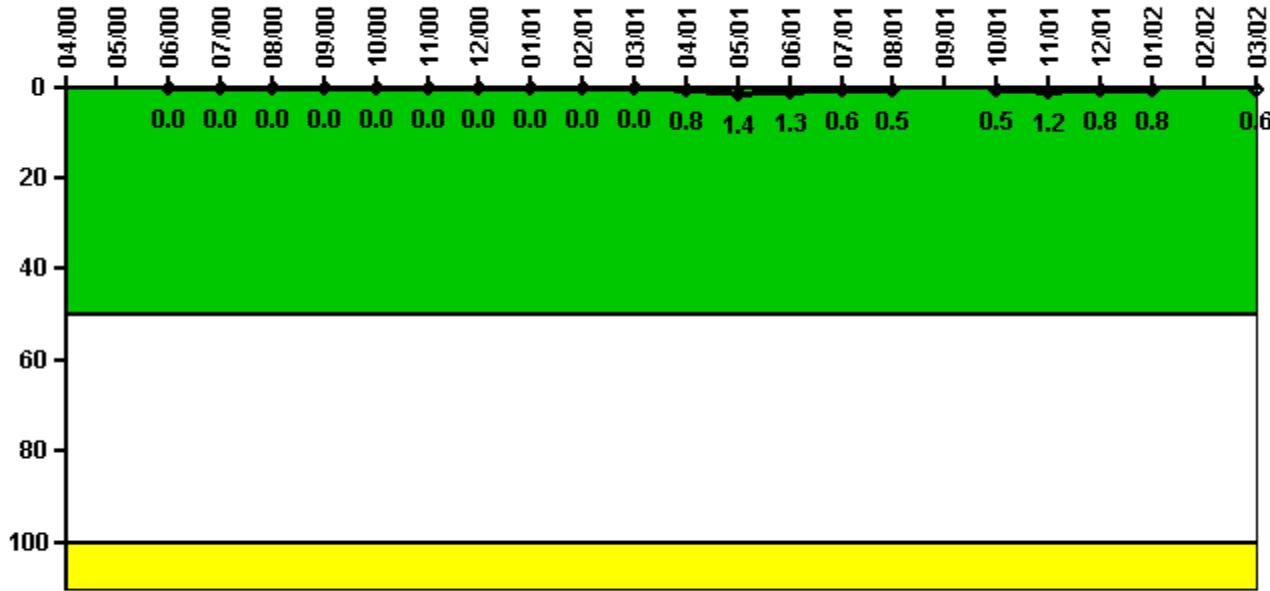
Reactor Coolant System Activity	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	N/A	N/A	0.000200	0.000311	0.000337	0.000364	0.000363	0.000386	0.000370	0.000394	0.000414	0.000401
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	N/A	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum activity	0.000407	0.000508	0.000452	0.000677	0.000474	N/A	0.000480	0.000497	0.000515	0.000509	N/A	0.000212
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0.1	0	0.1	0	N/A	0	0	0.1	0.1	N/A	0

Licensee Comments:

3/02: No data to report for February 2002 - Unit entered the month in a refueling outage and commenced power ascension at the end of the month.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

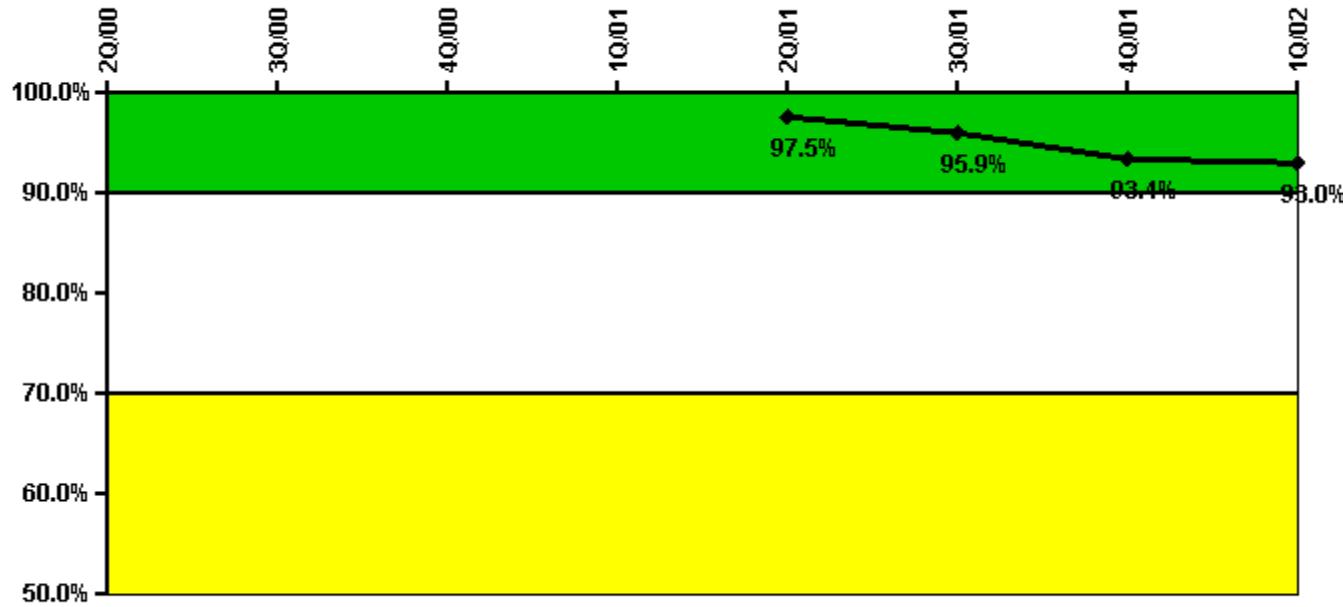
Reactor Coolant System Leakage	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	N/A	N/A	0	0	0	0	0	0	0	0	0	0
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	N/A	N/A	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Leakage	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum leakage	0.090	0.150	0.140	0.070	0.050	N/A	0.050	0.130	0.090	0.085	N/A	0.068
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.8	1.4	1.3	0.6	0.5	N/A	0.5	1.2	0.8	0.8	N/A	0.6

Licensee Comments:

3/02: No data to report for February 2002 - Unit entered the month in a refueling outage and commenced power ascension at the end of the month.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

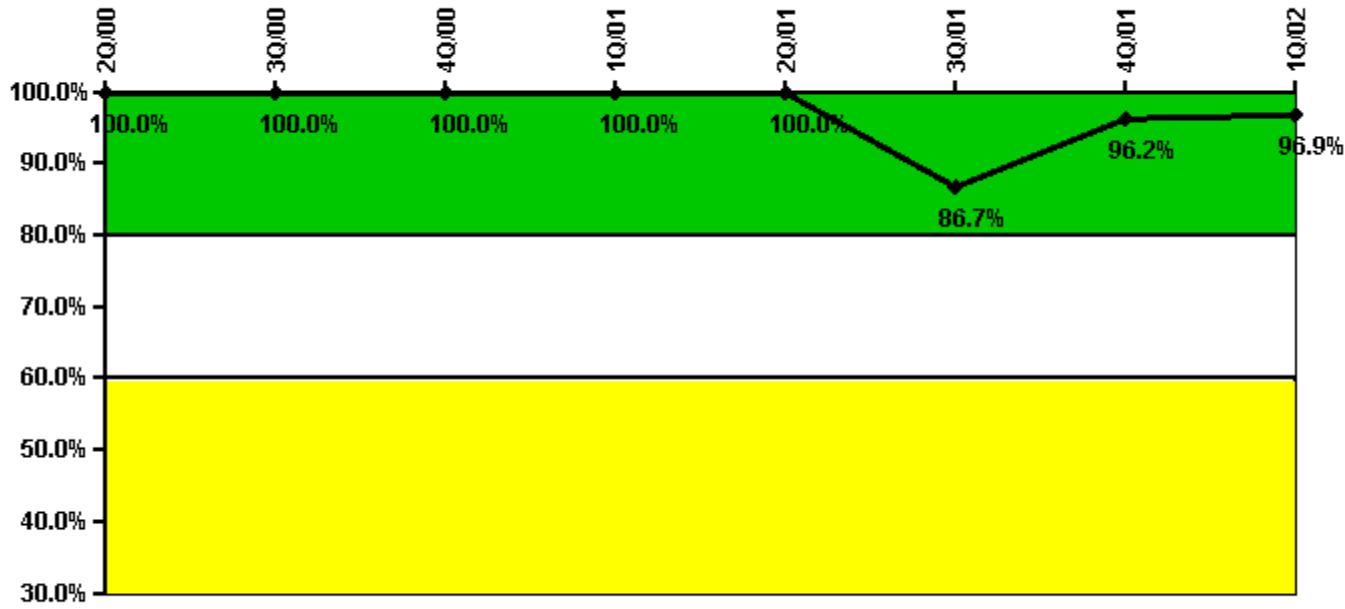
Notes

Drill/Exercise Performance	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful opportunities	56.0	54.0	24.0	44.0	35.0	69.0	90.0	43.0
Total opportunities	59.0	55.0	26.0	44.0	36.0	76.0	104.0	46.0
Indicator value					97.5%	95.9%	93.4%	93.0%

Licensee Comments:

4Q/01: Change report submitted to include a classification and opportunity that was not previously reported.

ERO Drill Participation



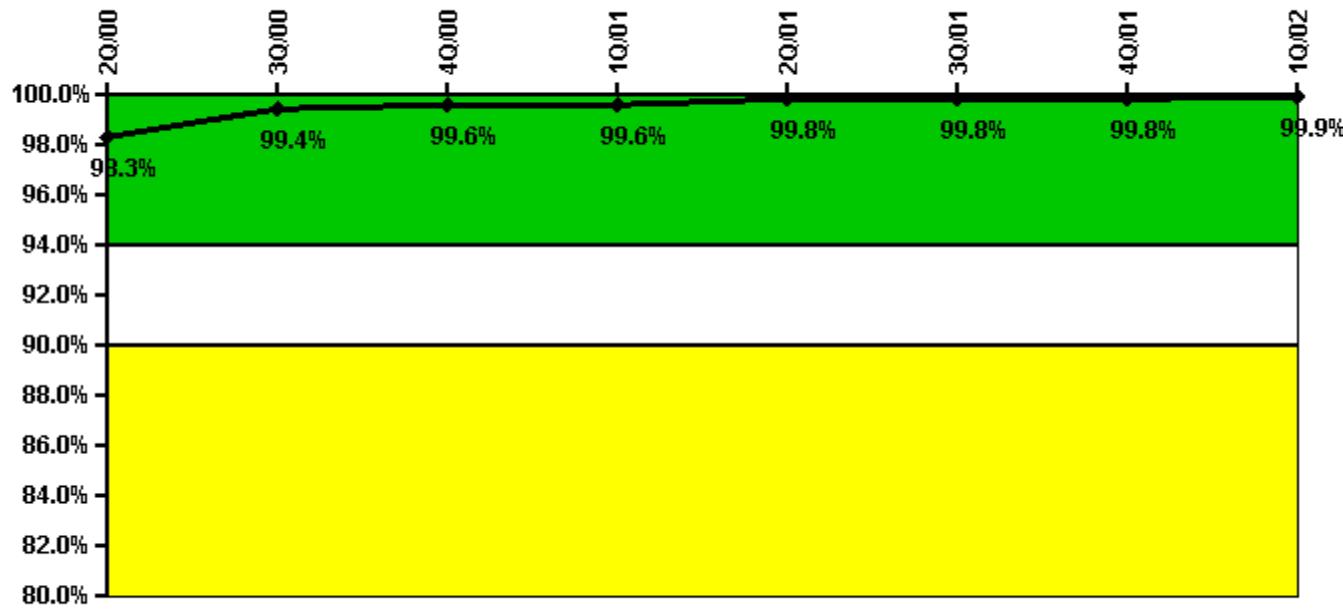
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Participating Key personnel	46.0	48.0	50.0	54.0	55.0	111.0	125.0	127.0
Total Key personnel	46.0	48.0	50.0	54.0	55.0	128.0	130.0	131.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	86.7%	96.2%	96.9%

Licensee Comments:

4Q/01: Change report submitted to include 2 individuals participation that was not previously reported.

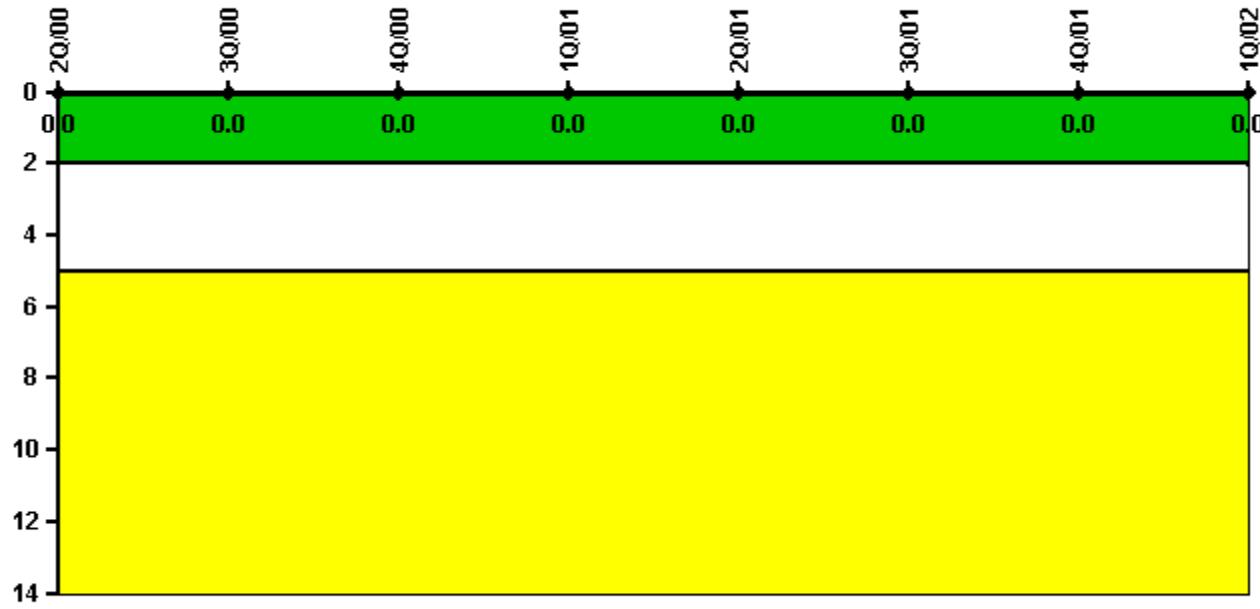
Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful siren-tests	209	210	209	209	210	210	209	210
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	98.3%	99.4%	99.6%	99.6%	99.8%	99.8%	99.8%	99.9%

Licensee Comments: none

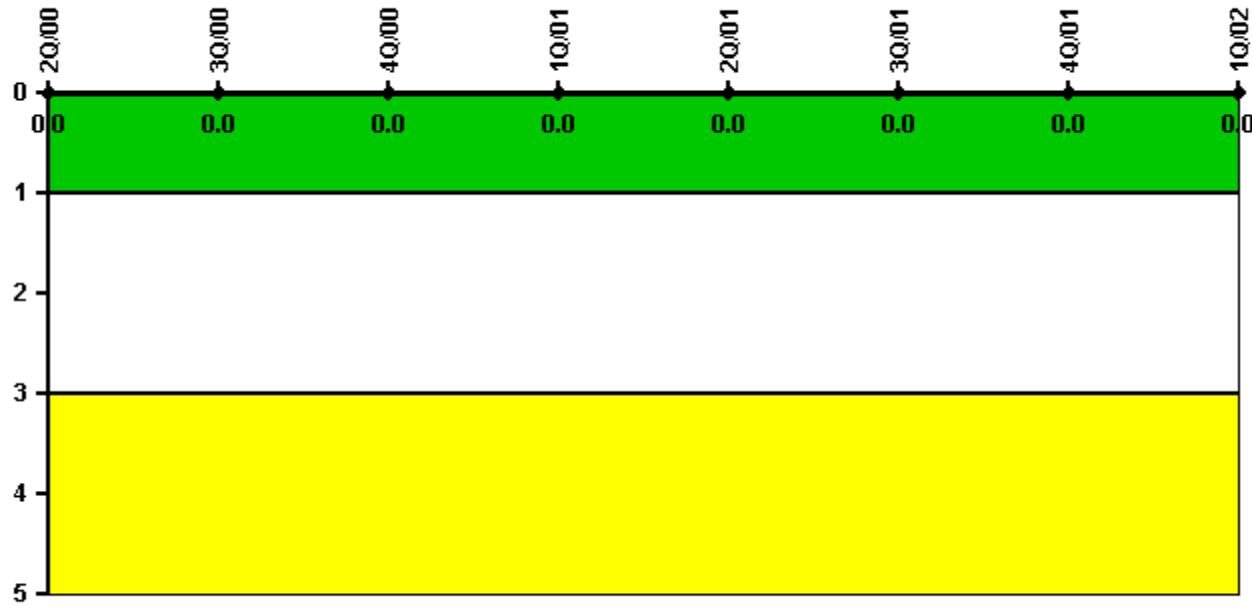
Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent

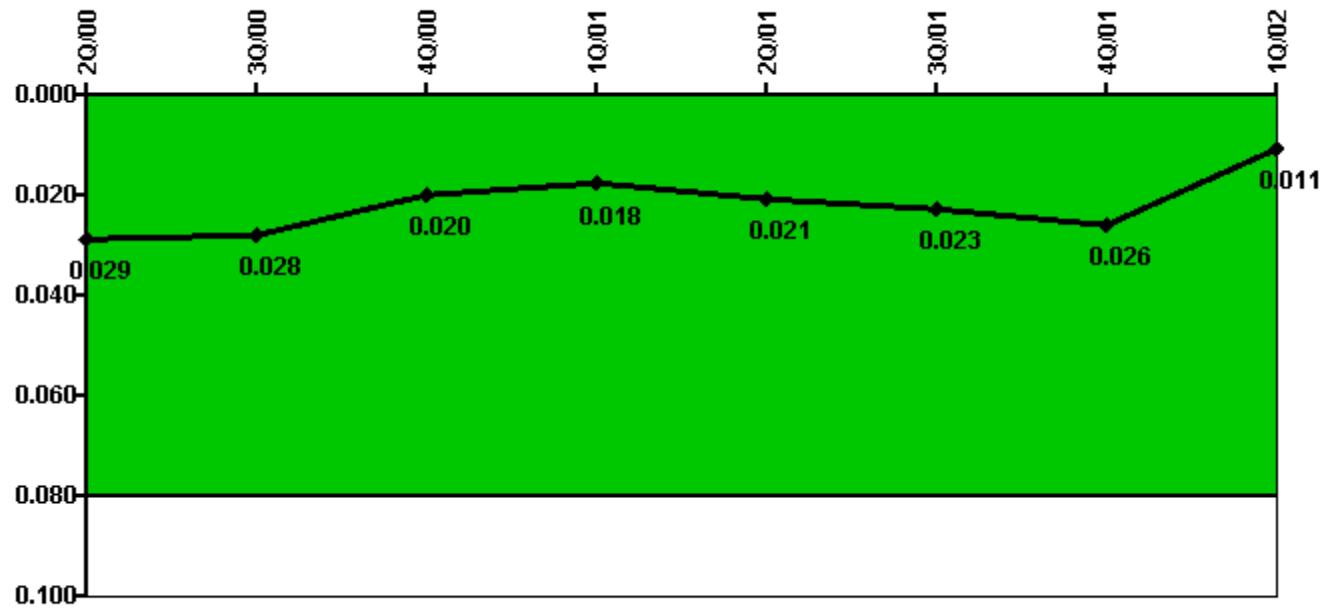
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



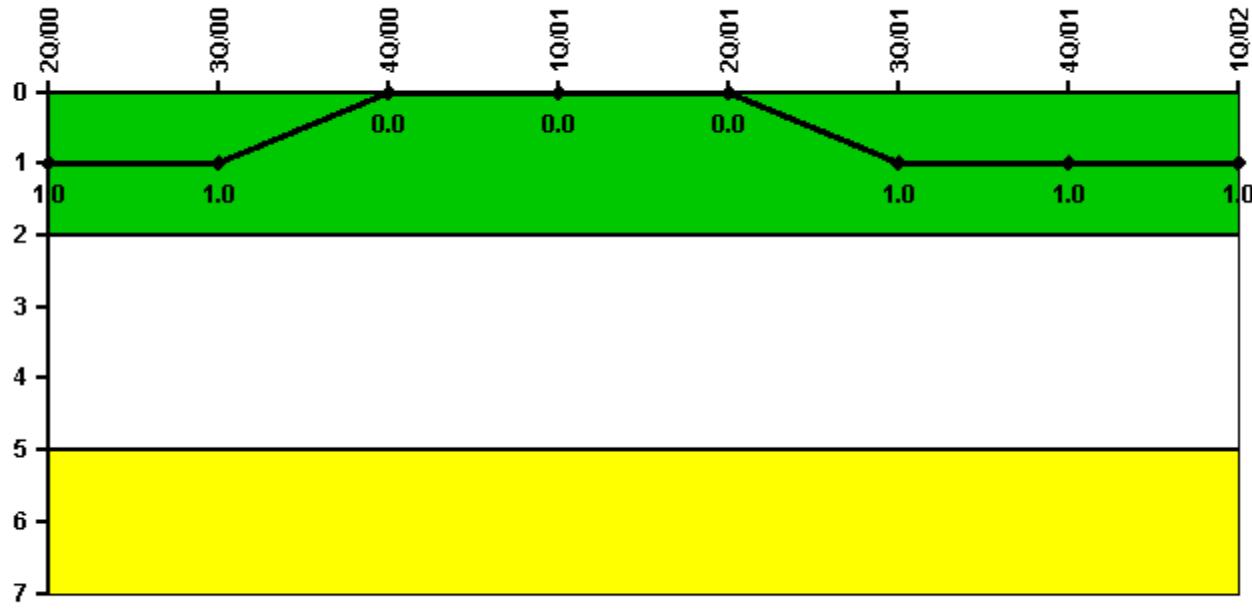
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
IDS compensatory hours	31.80	4.05	40.38	376.40	97.80	49.50	103.70	28.20
CCTV compensatory hours	0	0.1	0	0	0.3	0	0	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.029	0.028	0.020	0.018	0.021	0.023	0.026	0.011

Licensee Comments:

1Q/02: In accordance with NEI 99-02, compensatory hours associated with scheduled equipment upgrades that are being performed and those compensatory hours for configuration issues associated with the equipment upgrades are excluded.

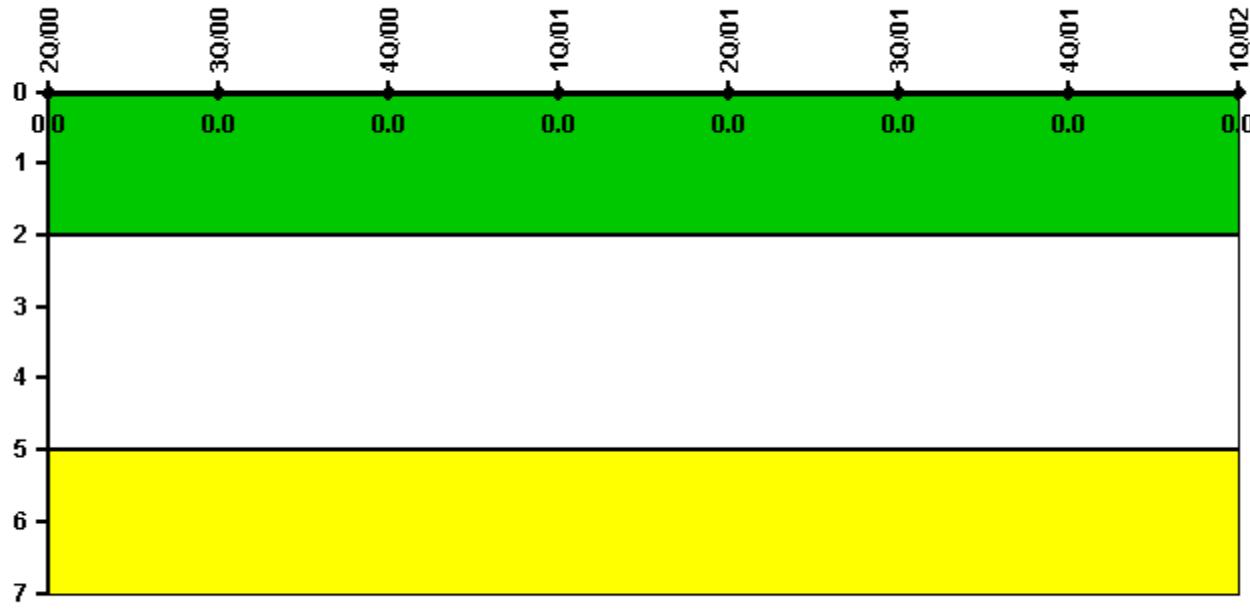
Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Program failures	0	0	0	0	0	1	0	0
Indicator value	1	1	0	0	0	1	1	1

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Program Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none



[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

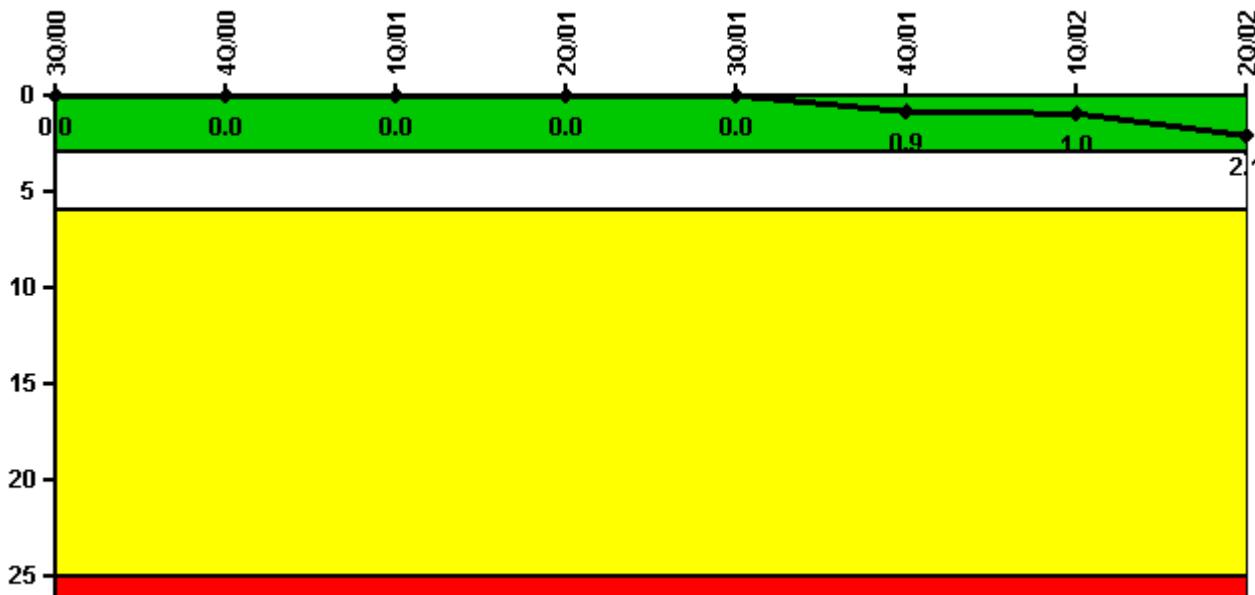
Last Modified: May 1, 2002

D.C. Cook 2

2Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

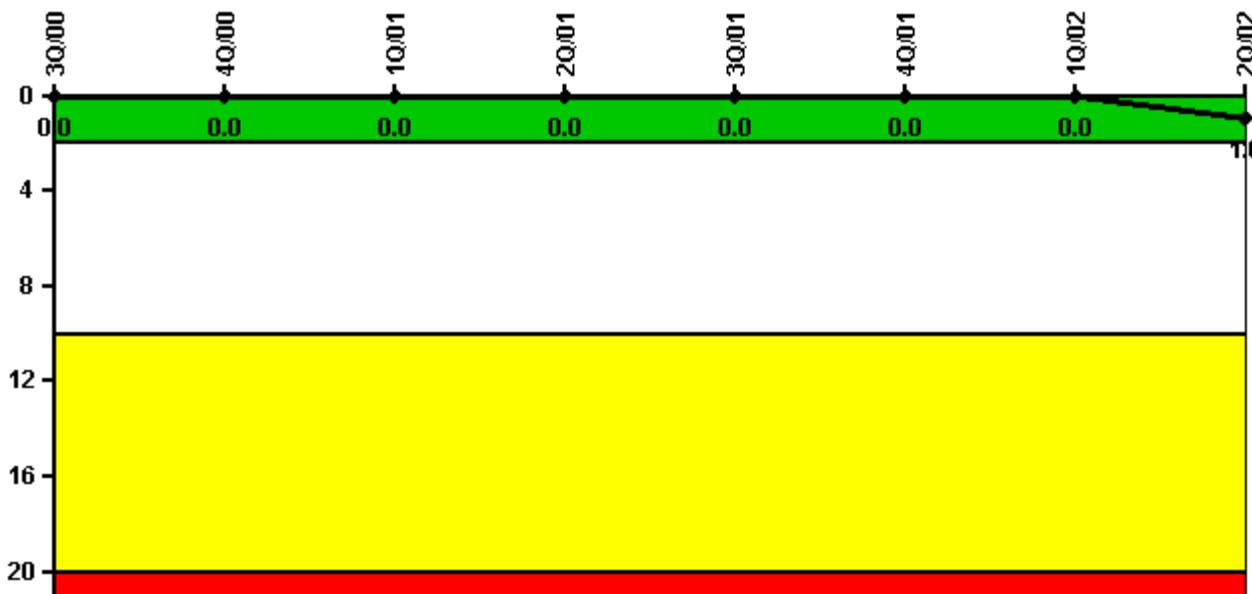
Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned scrams	0	0	0	0	0	1.0	0	1.0
Critical hours	2208.0	2209.0	2076.0	2183.0	1454.0	2008.0	1261.5	1965.5
Indicator value	0	0	0	0	0	0.9	1.0	2.1

Licensee Comments:

2Q/02: On May 12, 2002, Unit 2 tripped due to an instrument rack power supply failure. The failure caused a steam generator (SG) feedwater regulating valve to close initiating a unit trip on low water level in coincident with low feedwater flow.

Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

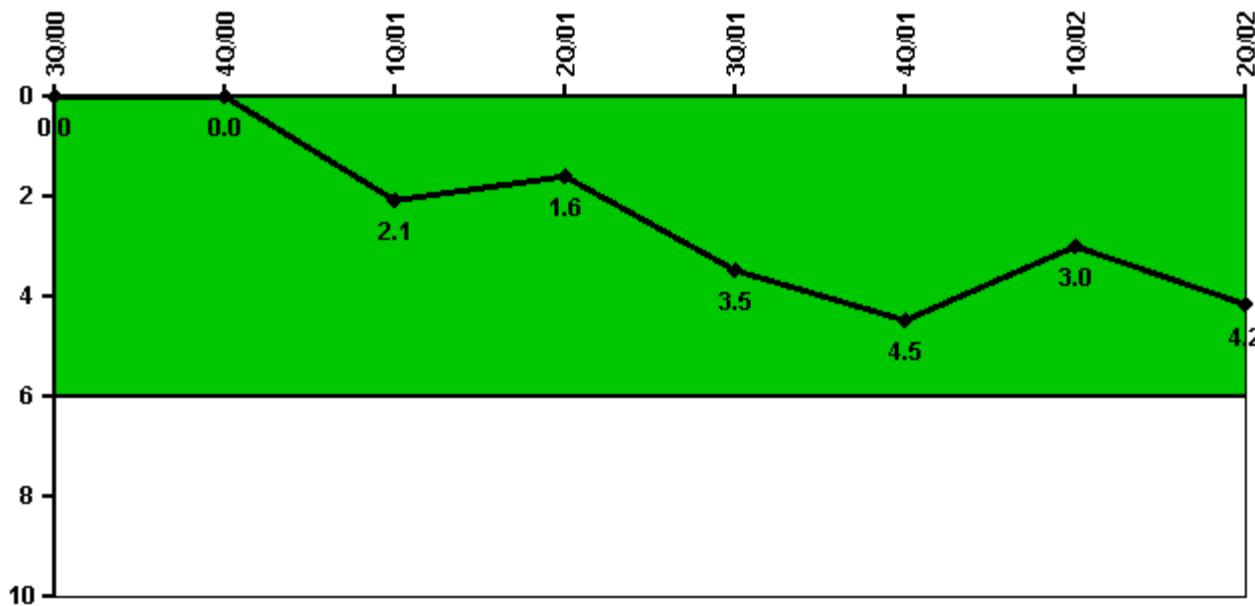
Notes

Scrams with Loss of Normal Heat Removal	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Scrams	0	0	0	0	0	0	0	1.0
Indicator value	0	0	0	0	0	0	0	1.0

Licensee Comments:

2Q/02: Following the May 12, 2002, reactor trip on Unit 2, the steam generator (SG) stop valves were manually closed to stabilize reactor coolant system (RCS) temperature in accordance with plant procedures. Cook Unit 1 was in a refueling outage and the plant heating boiler was under clearance, therefore, auxiliary steam was not available to maintain main condenser vacuum. Although the main condenser was not available, RCS temperature was automatically maintained using the SG power operated relief valves.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

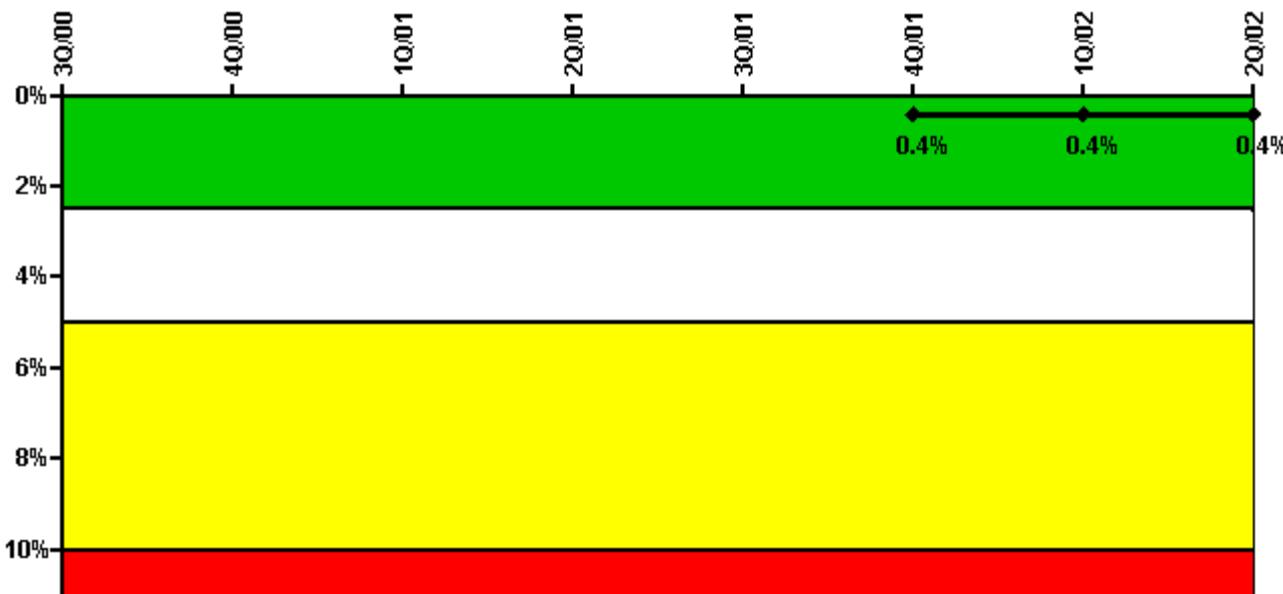
Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned power changes	0	0	2.0	0	2.0	1.0	0	1.0
Critical hours	2208.0	2209.0	2076.0	2183.0	1454.0	2008.0	1261.5	1965.5
Indicator value	0	0	2.1	1.6	3.5	4.5	3.0	4.2

Licensee Comments:

2Q/02: A Technical Specification shutdown was commenced and was terminated when reactor power was approximately 40 percent. The shutdown was required due to visual indications of cracking on a unit 2 station battery causing the battery to be declared inoperable. The shutdown was terminated after receiving a notice of enforcement discretion.

Safety System Unavailability, Emergency AC Power



Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	8.20	20.78	0.47	5.20	0.30	1.20	5.38	11.33
Unplanned unavailable hours	0	0	0	0	0.90	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	1903.80	2183.00
Train 2								
Planned unavailable hours	0	13.30	27.25	26.18	0.58	2.22	0.20	14.60
Unplanned unavailable hours	0	0	0	0	0.90	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1524.50	2209.00	2064.00	2183.00
Indicator value							0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

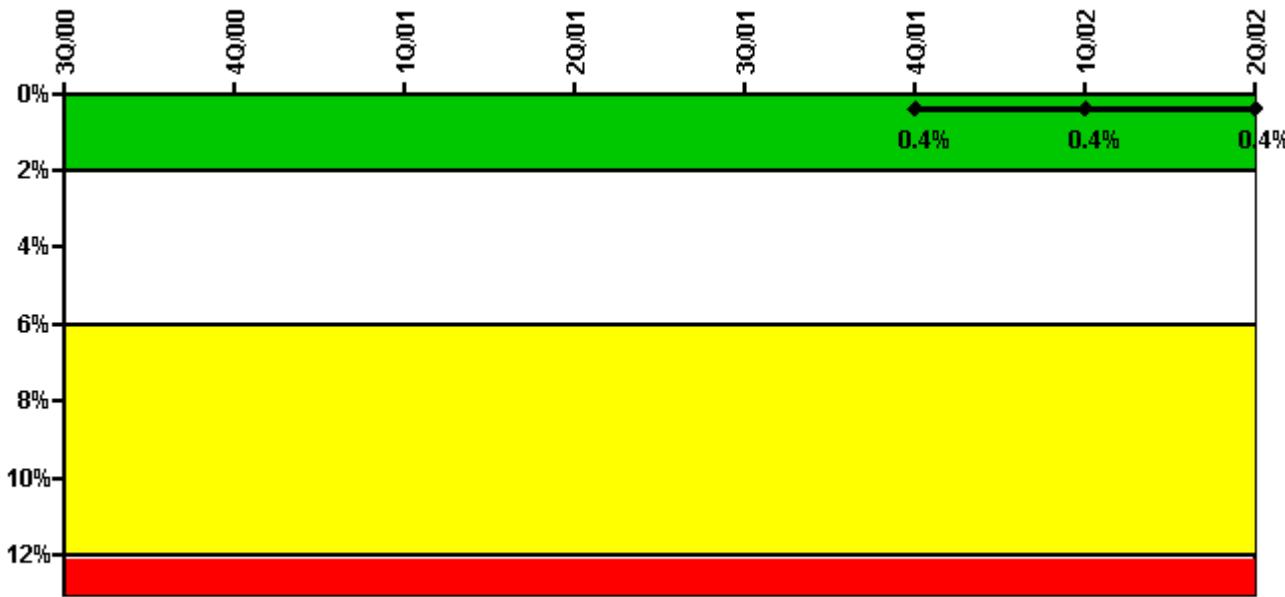
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	7.50	9.18	0	0	0	15.45	11.00	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1524.47	2209.00	1389.76	2183.00
Train 2								
Planned unavailable hours	0	0	16.65	0	20.92	0	1.87	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1501.97	2209.00	1329.94	2183.00
Train 3								
Planned unavailable hours	0	3.72	13.83	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1524.47	2209.00	1389.76	2183.00
Train 4								
Planned unavailable hours	4.97	0	0	5.57	0	12.48	0	5.95
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	2208.00	2209.00	2160.00	2183.00	1501.97	2209.00	1329.94	2183.00
Indicator value							0.2%	0.2%
							0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

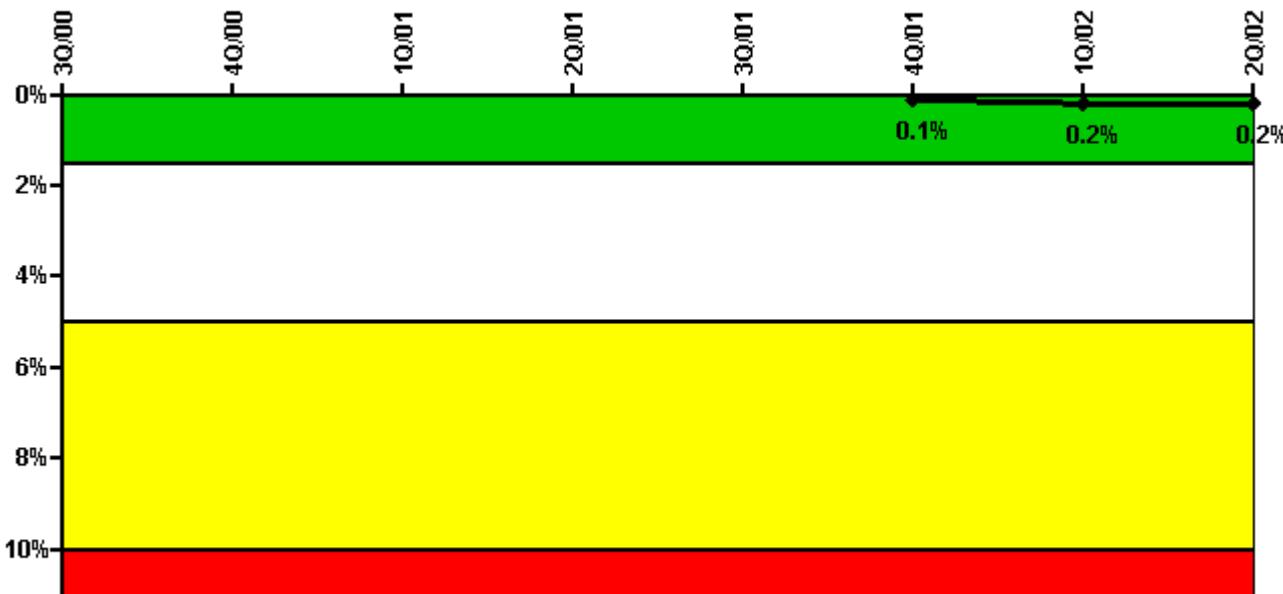
Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	0	0	5.58	0	1.32	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1579.05	2209.00	438.92	2183.00
Train 2								
Planned unavailable hours	0	10.41	0	1.00	1.85	0	2.52	9.23
Unplanned unavailable hours	0	0	0	0	0	0	0	6.08
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1579.05	2209.00	438.92	2183.00
Train 3								

Planned unavailable hours	0	0	11.98	0	5.75	0	0	0
Unplanned unavailable hours	0	0	0	0	32.39	0	14.79	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1579.05	2209.00	438.92	2183.00
Indicator value						0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

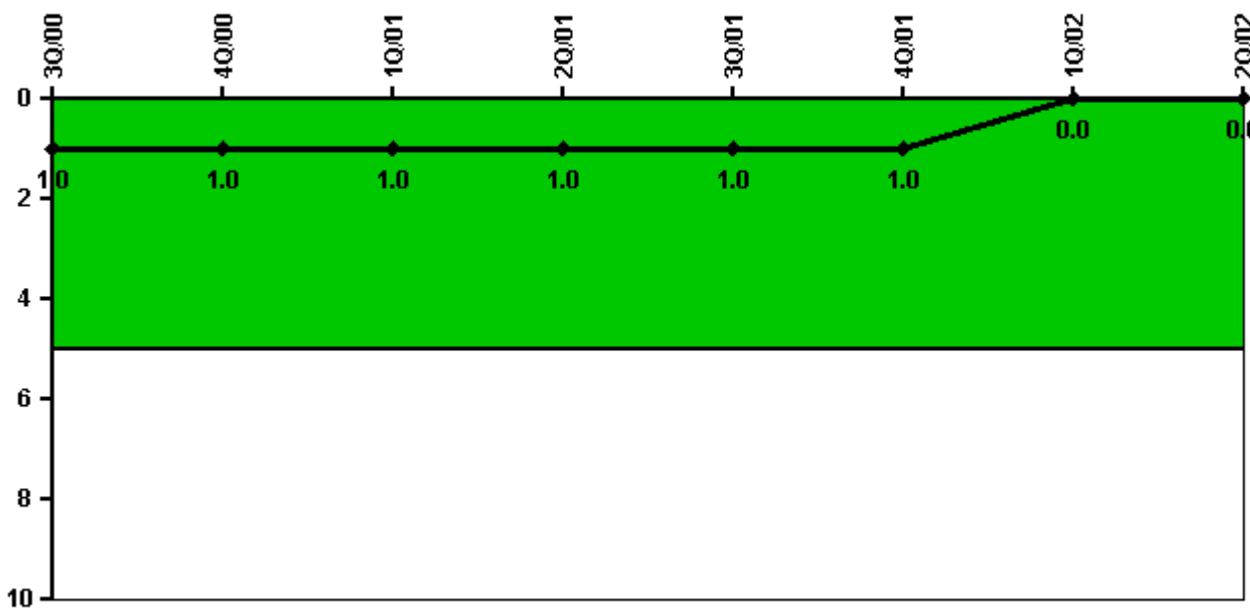
Notes

Safety System Unavailability, Residual Heat Removal System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	0	11.70	6.63	0	11.78	0	15.62	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	1857.00	2183.00
Train 2								
Planned unavailable hours	0	0	6.97	0	0	0	7.58	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0

Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	1857.00
Indicator value						0.1%	0.2%
						0.2%	

Licensee Comments: none

Safety System Functional Failures (PWR)



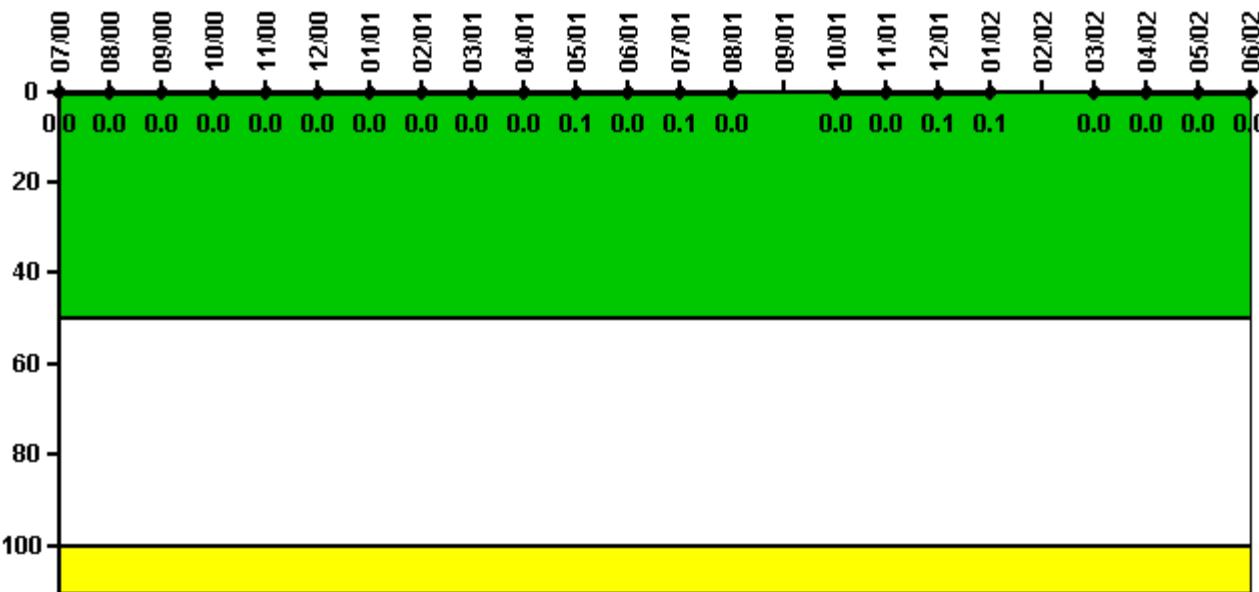
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Safety System Functional Failures	0	0	1	0	0	0	0	0
Indicator value	1	1	1	1	1	1	0	0

Licensee Comments: none

Reactor Coolant System Activity



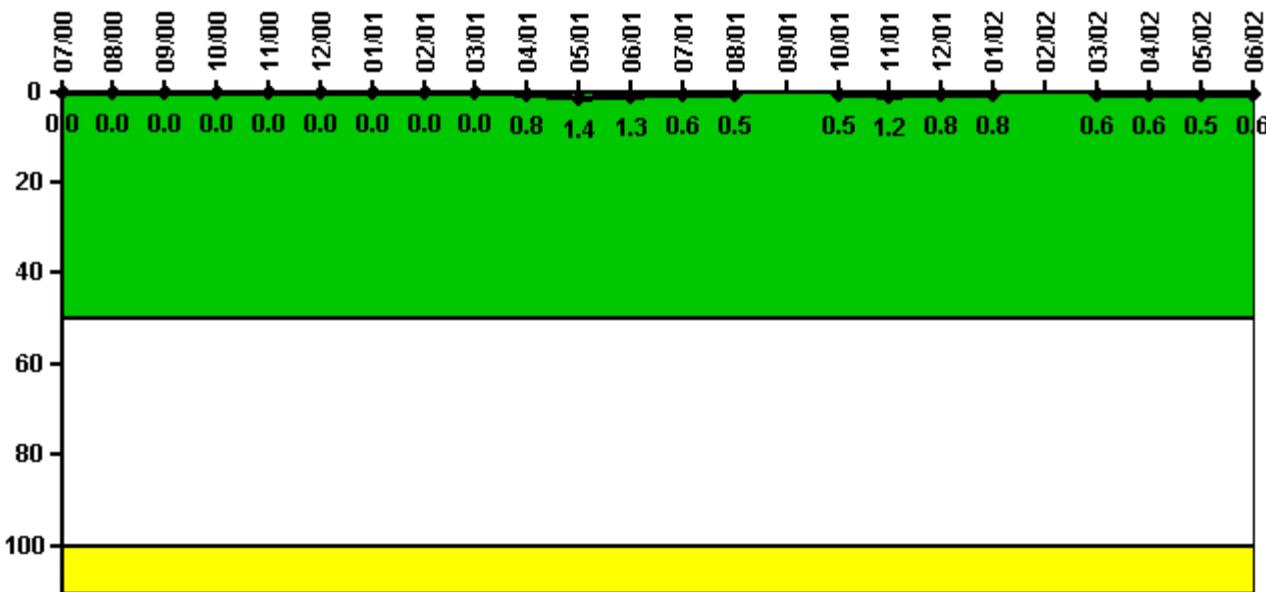
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.000311	0.000337	0.000364	0.000363	0.000386	0.000370	0.000394	0.000414	0.000401	0.000407	0.000508	0.000452
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0.1	0
Reactor Coolant System Activity	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum activity	0.000677	0.000474	N/A	0.000480	0.000497	0.000515	0.000509	N/A	0.000212	0.000242	0.000214	0.000238
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0	N/A	0	0	0.1	0.1	N/A	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



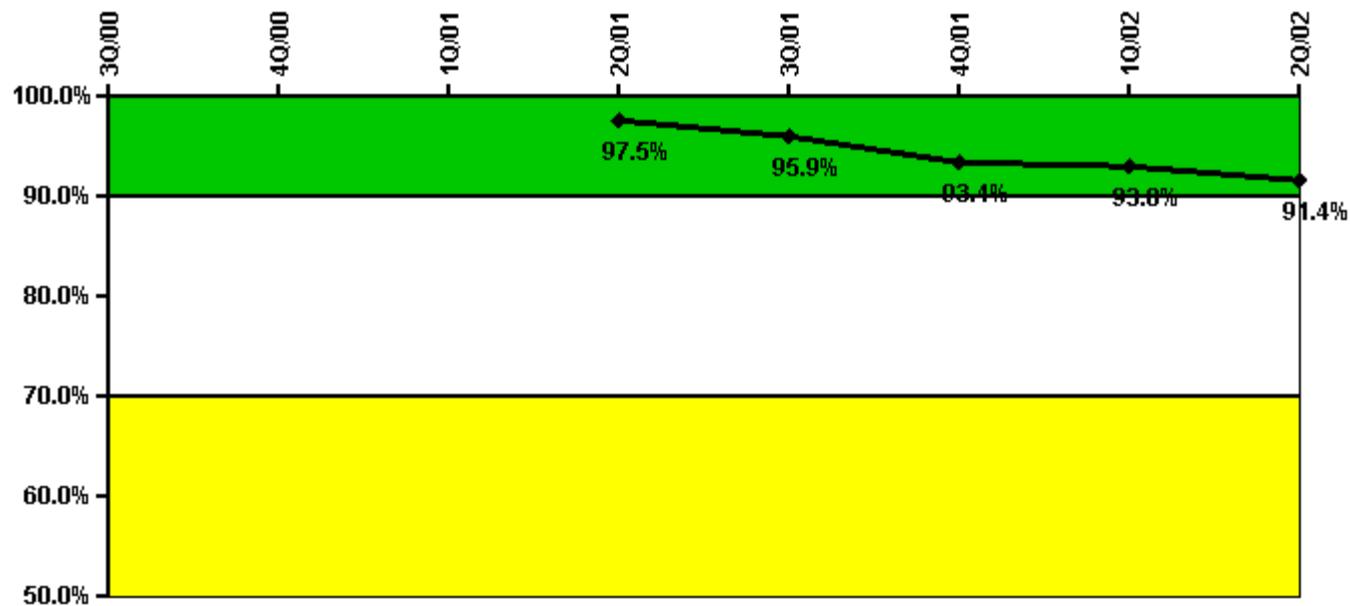
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	0	0	0	0	0	0	0	0	0	0.090	0.150	0.140
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	11.0	11.0	11.0
Indicator value	0	0	0	0	0	0	0	0	0	0.8	1.4	1.3

Reactor Coolant System Leakage	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum leakage	0.070	0.050	N/A	0.050	0.130	0.090	0.085	N/A	0.068	0.071	0.057	0.064
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.6	0.5	N/A	0.5	1.2	0.8	0.8	N/A	0.6	0.6	0.5	0.6

Licensee Comments: none

Drill/Exercise Performance

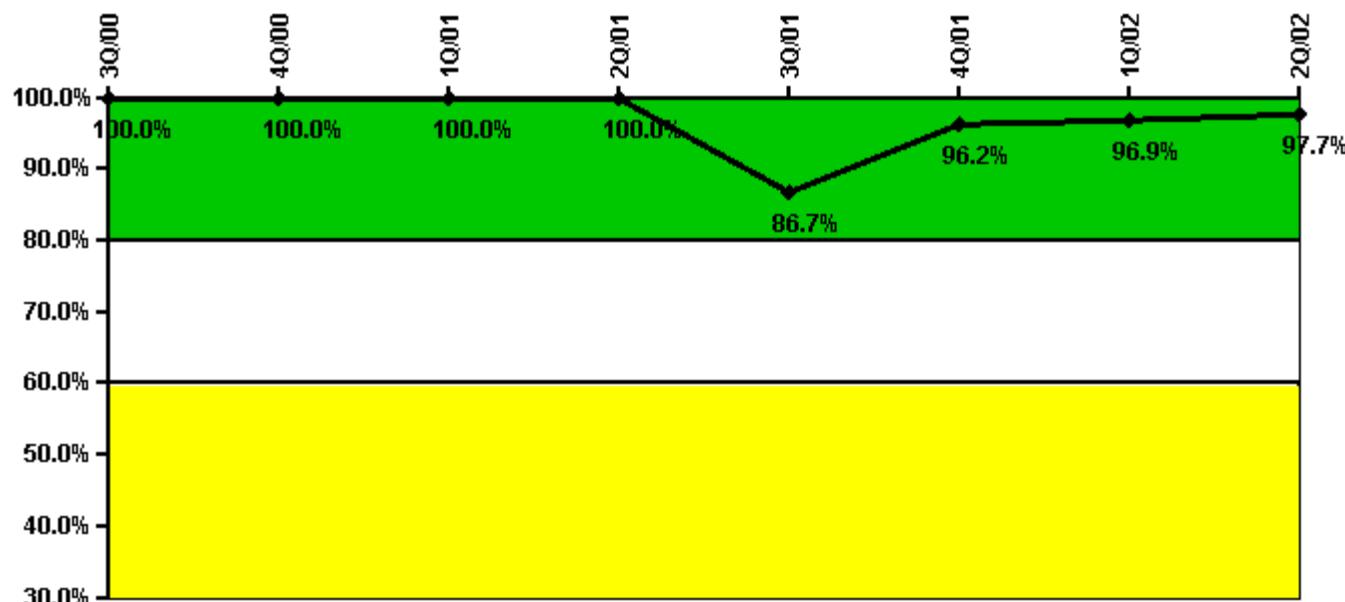
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful opportunities	54.0	24.0	44.0	35.0	69.0	90.0	43.0	26.0
Total opportunities	55.0	26.0	44.0	36.0	76.0	104.0	46.0	34.0
Indicator value				97.5%	95.9%	93.4%	93.0%	91.4%

Licensee Comments: none

ERO Drill Participation



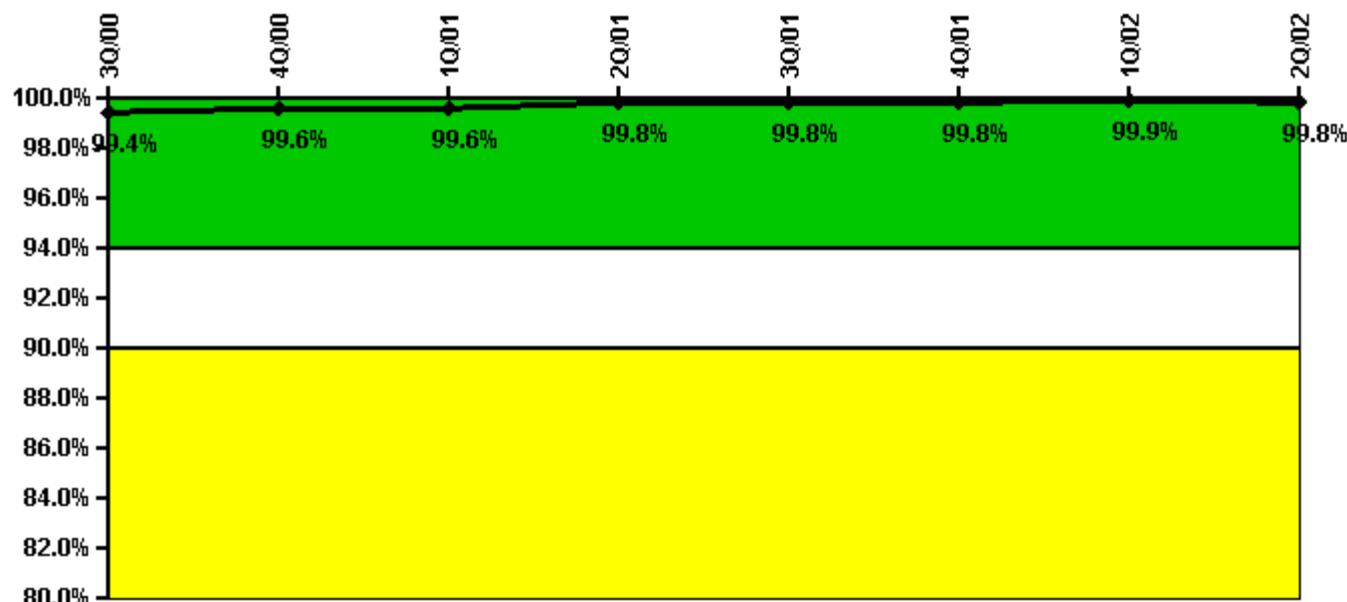
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Participating Key personnel	48.0	50.0	54.0	55.0	111.0	125.0	127.0	125.0
Total Key personnel	48.0	50.0	54.0	55.0	128.0	130.0	131.0	128.0
Indicator value	100.0%	100.0%	100.0%	100.0%	86.7%	96.2%	96.9%	97.7%

Licensee Comments: none

Alert & Notification System



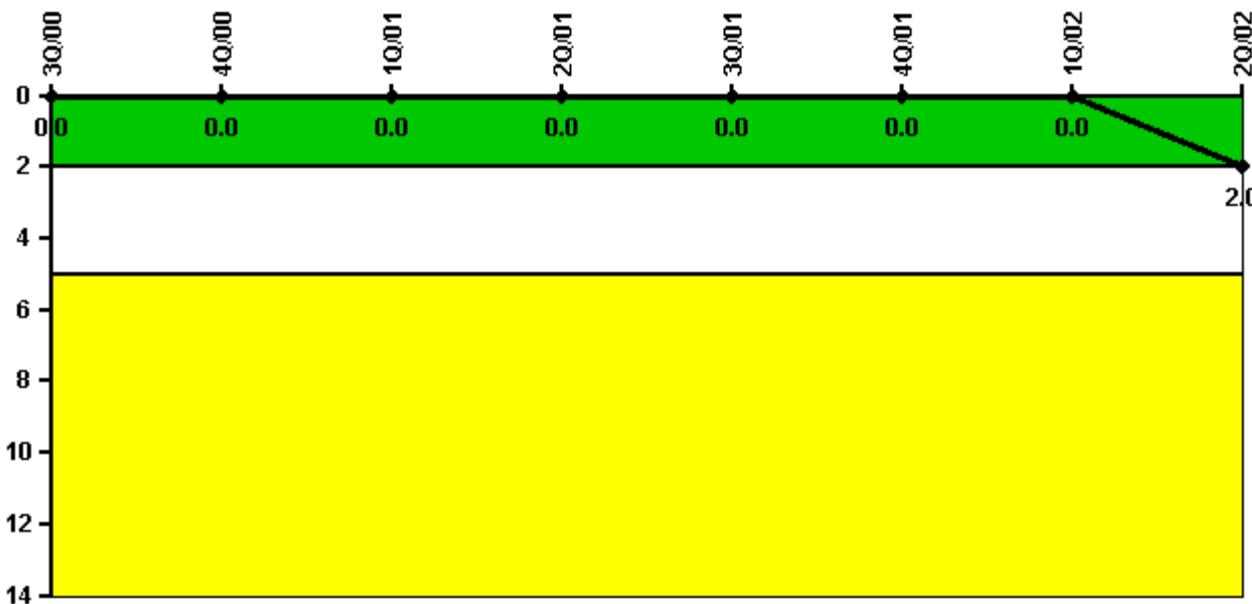
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful siren-tests	210	209	209	210	210	209	210	209
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	99.4%	99.6%	99.6%	99.8%	99.8%	99.8%	99.9%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



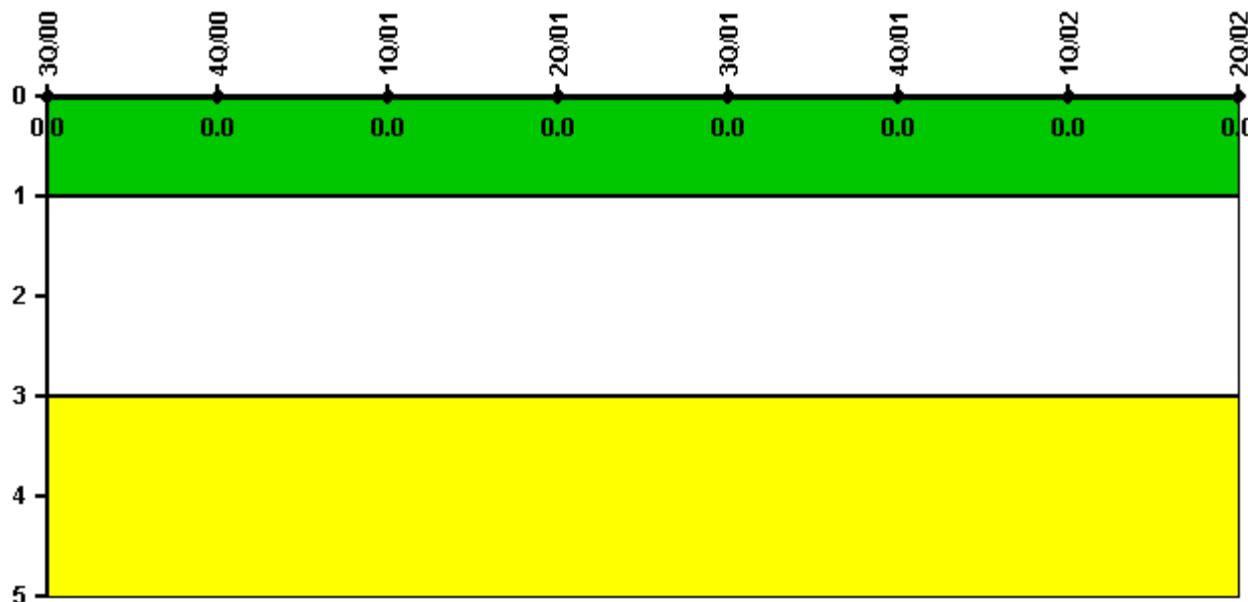
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
High radiation area occurrences	0	0	0	0	0	0	0	2
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	2						

Licensee Comments:

2Q/02: Two technical specification high radiation area occurrences are reported for the second quarter 2002. One occurrence was an unauthorized entry into an area posted as a Locked High Radiation Area. The second occurrence was the discovery of an area posted as a Radiation Area that had general dose rates of 3 rem per hour at 30 centimeters following a reactor coolant system clean-up evolution. A review of dose records shows no unintended dose was received by plant personnel as a result of the two occurrences. Immediate actions were taken by plant radiation protection personnel to properly secure the areas.

RETS/ODCM Radiological Effluent

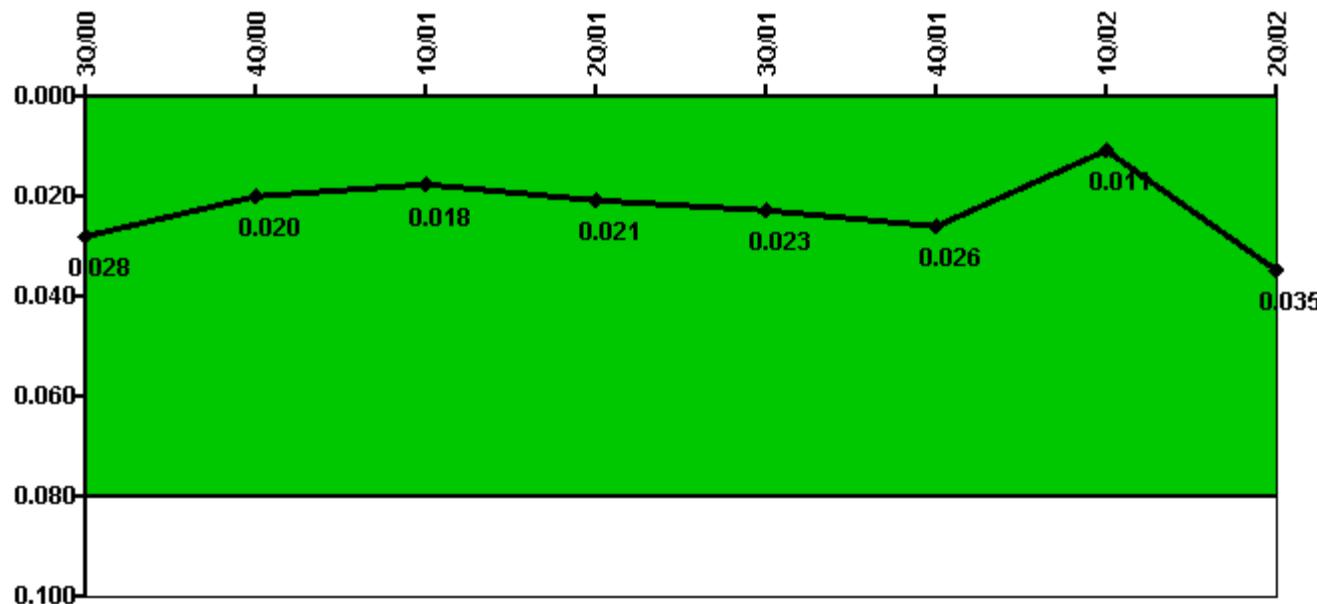
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



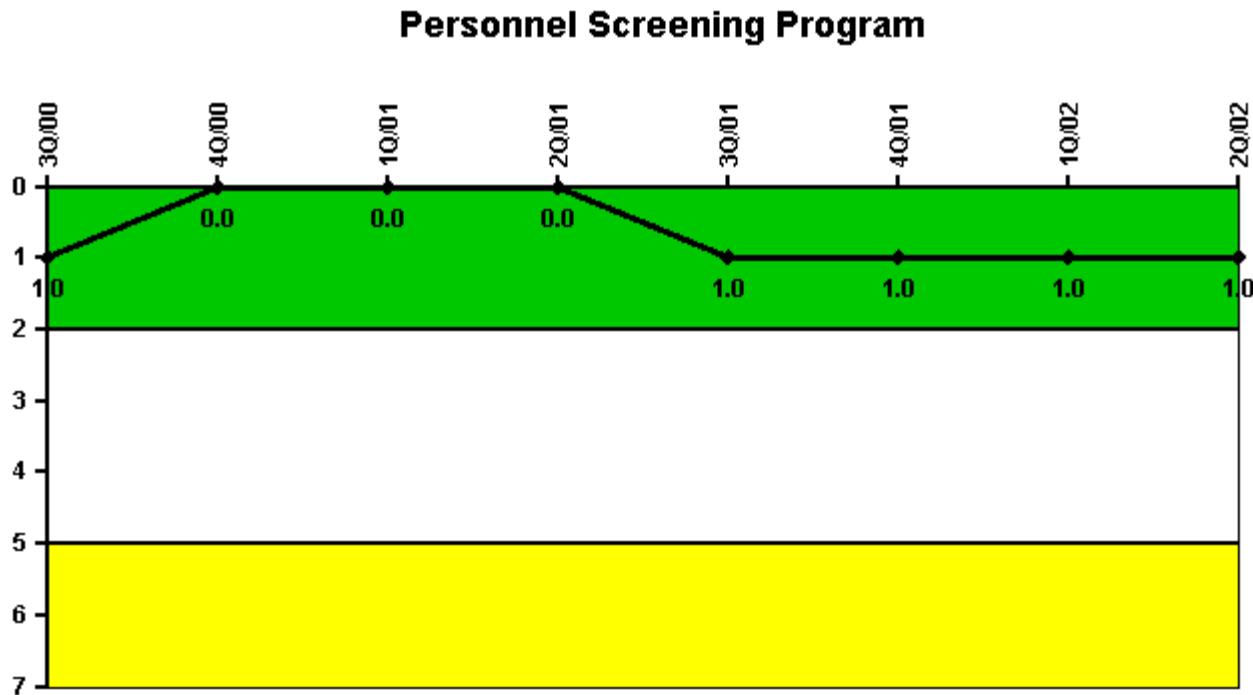
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
IDS compensatory hours	4.05	40.38	376.40	97.80	49.50	103.70	28.20	680.50
CCTV compensatory hours	0.1	0	0	0.3	0	0	0	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.028	0.020	0.018	0.021	0.023	0.026	0.011	0.035

Licensee Comments:

2Q/02: In accordance with NEI 99-02, compensatory hours associated with scheduled equipment upgrades that are being performed and those compensatory hours for configuration issues associated with the equipment upgrades are excluded.

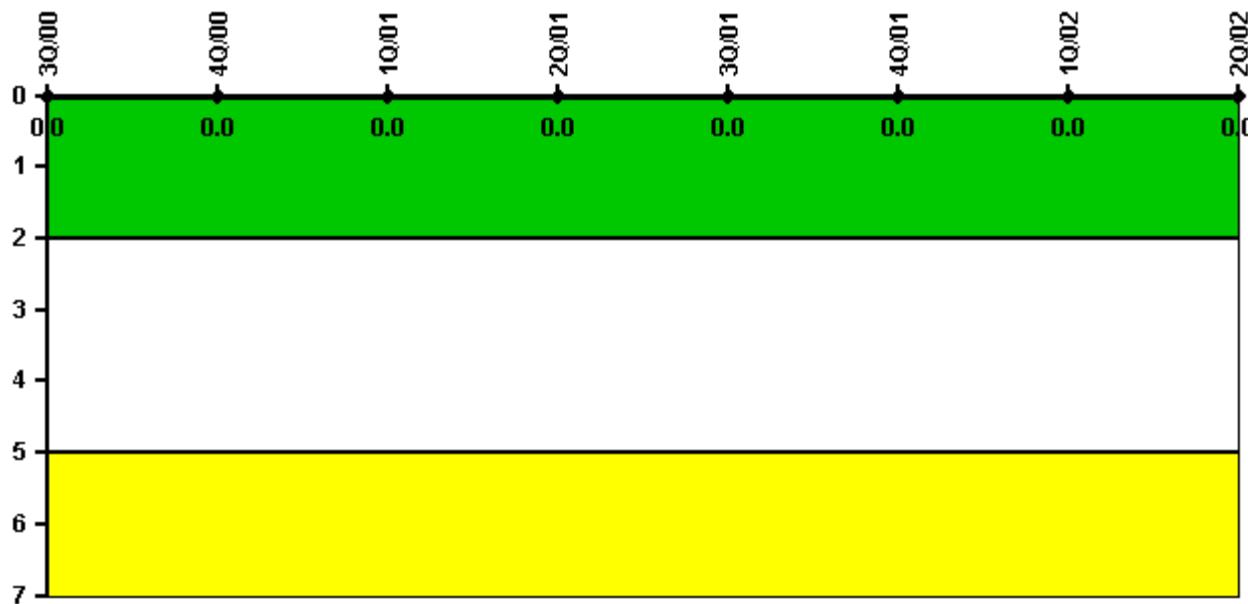


Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Program failures	0	0	0	0	1	0	0	0
Indicator value	1	0	0	0	1	1	1	1

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Program Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

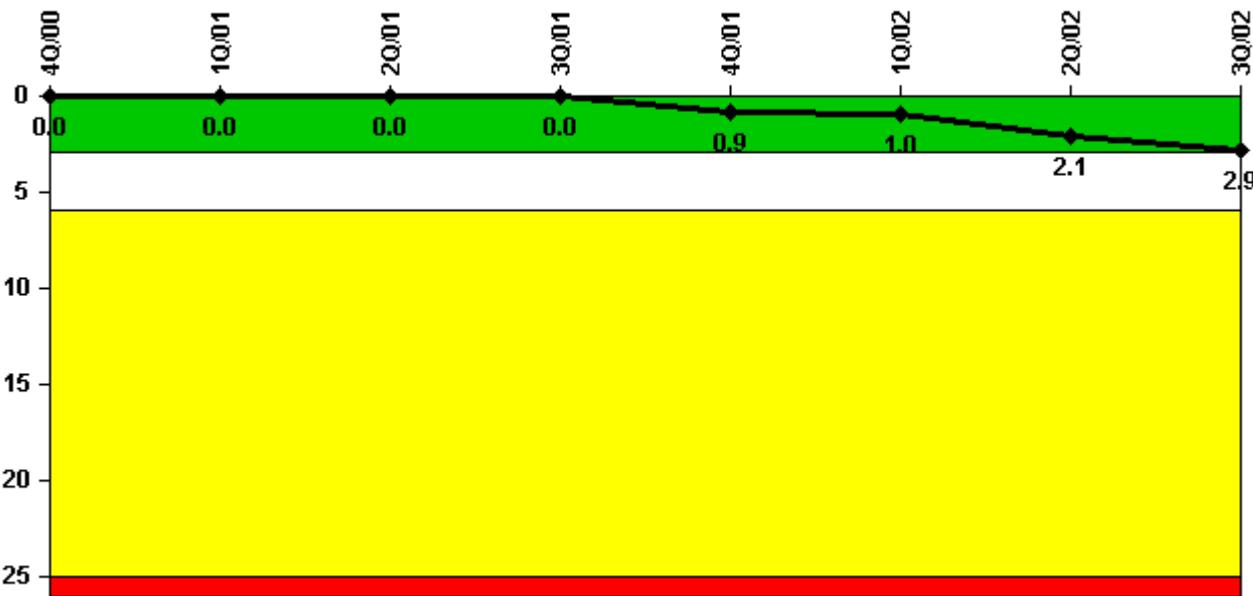


[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

Last Modified: July 31, 2002

D.C. Cook 2**3Q/2002 Performance Indicators**

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

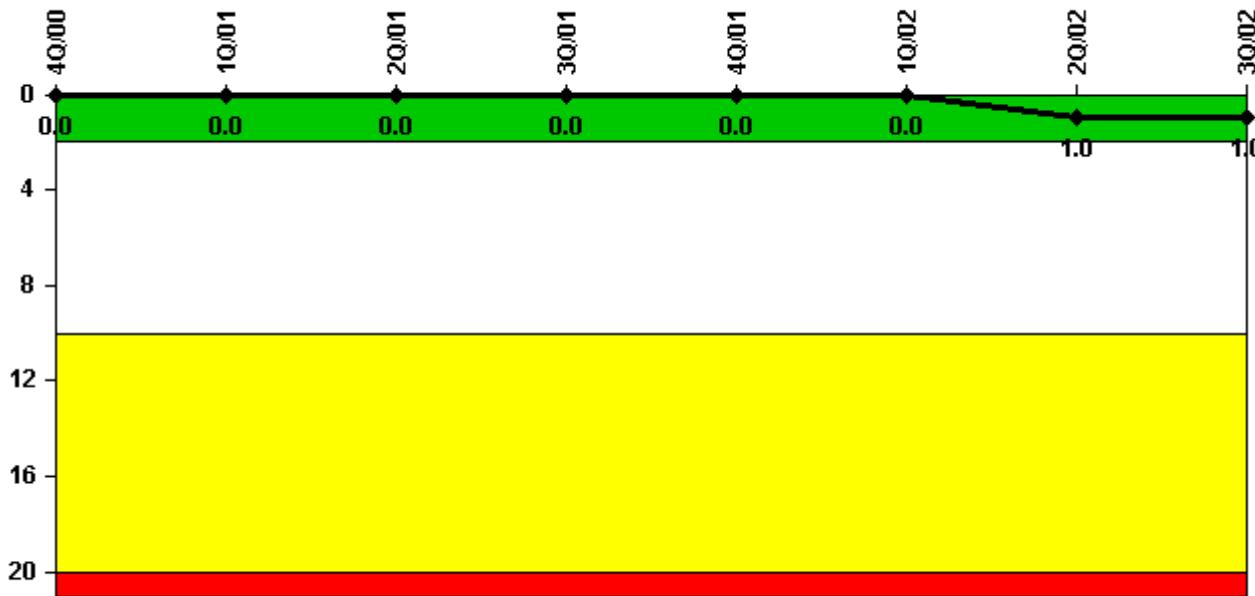
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned scrams	0	0	0	0	1.0	0	1.0	1.0
Critical hours	2209.0	2076.0	2183.0	1454.0	2008.0	1261.5	1965.5	2027.5
Indicator value	0	0	0	0	0.9	1.0	2.1	2.9

Licensee Comments:

3Q/02: Unit 2 experienced one unplanned reactor scram due to a partial loss of condenser vacuum during condenser water box flushing.

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

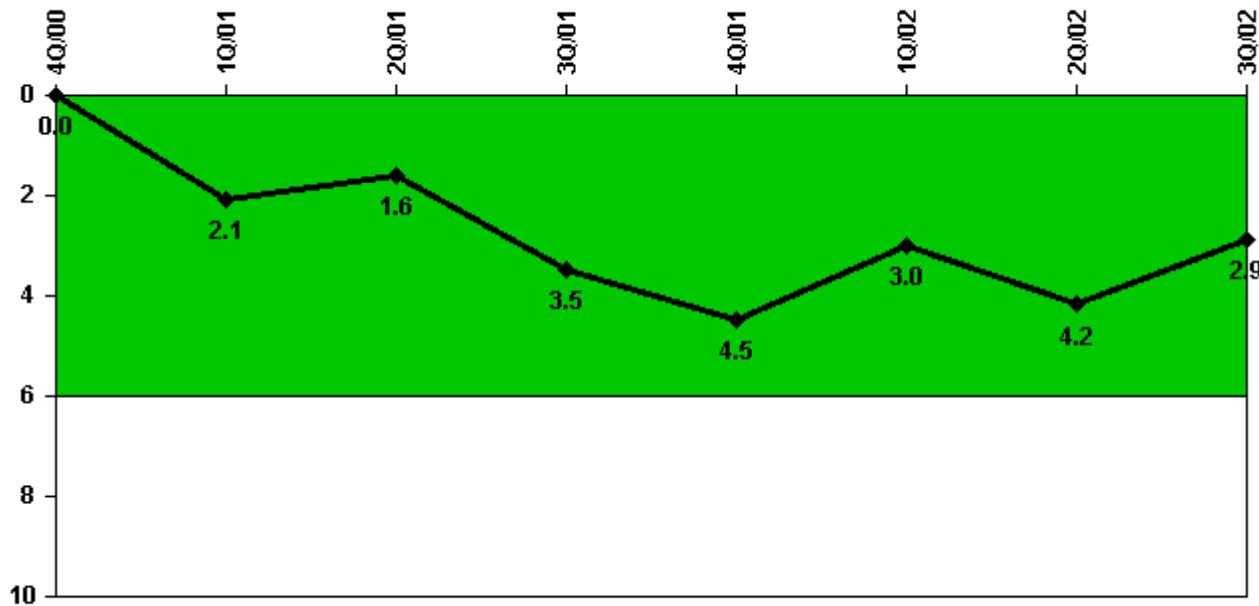
Notes

Scrams with Loss of Normal Heat Removal	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Scrams	0	0	0	0	0	0	1.0	0
Indicator value	0	0	0	0	0	0	1.0	1.0

Licensee Comments:

3Q/02: Two frequently asked questions have been submitted to address two reactor scrams for which the NRC resident inspection believes should be counted under this reporting criteria.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

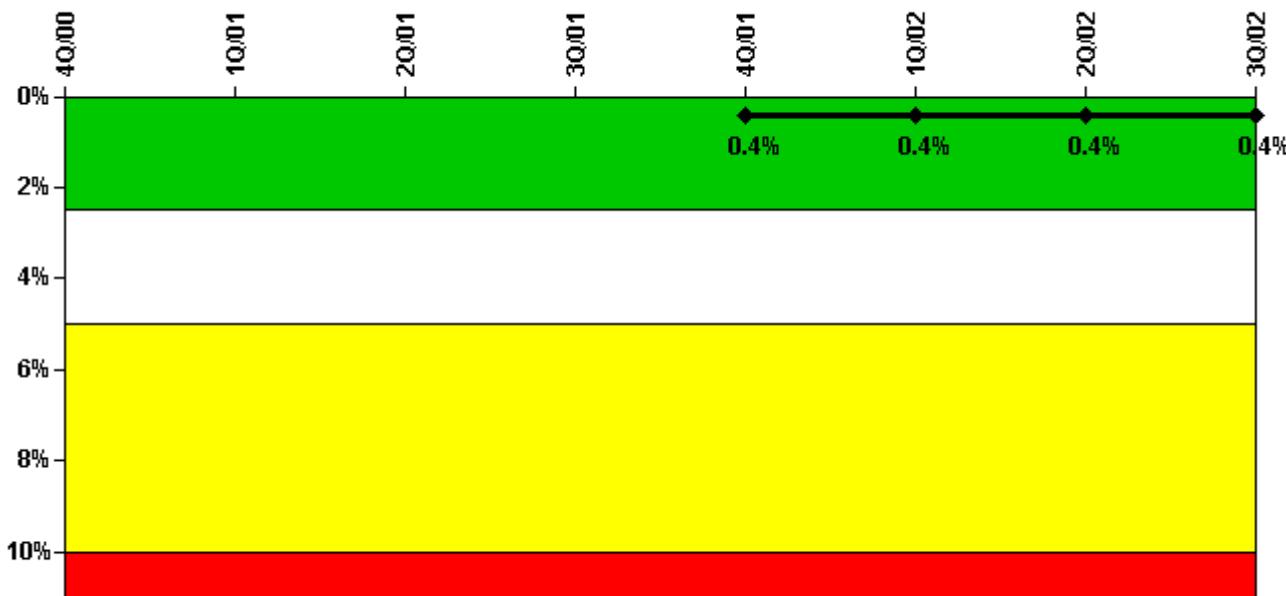
Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned power changes	0	2.0	0	2.0	1.0	0	1.0	1.0
Critical hours	2209.0	2076.0	2183.0	1454.0	2008.0	1261.5	1965.5	2027.5
Indicator value	0	2.1	1.6	3.5	4.5	3.0	4.2	2.9

Licensee Comments:

3Q/02: Two frequently asked questions have been submitted to address two power changes which the NRC resident inspector believes should be counted under this reporting criteria.

Safety System Unavailability, Emergency AC Power



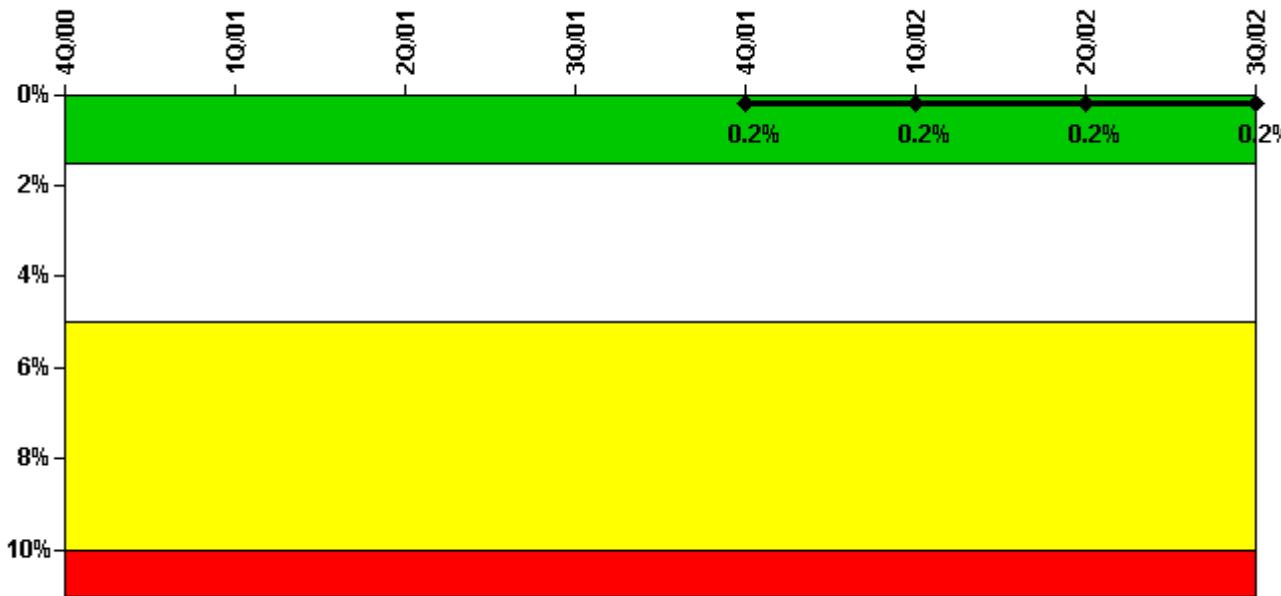
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	20.78	0.47	5.20	0.30	1.20	5.38	11.33	0.70
Unplanned unavailable hours	0	0	0	0.90	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	1903.80	2183.00	2208.00
Train 2								
Planned unavailable hours	13.30	27.25	26.18	0.58	2.22	0.20	14.60	22.90
Unplanned unavailable hours	0	0	0	0.90	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1524.50	2209.00	2064.00	2183.00	2208.00
Indicator value					0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



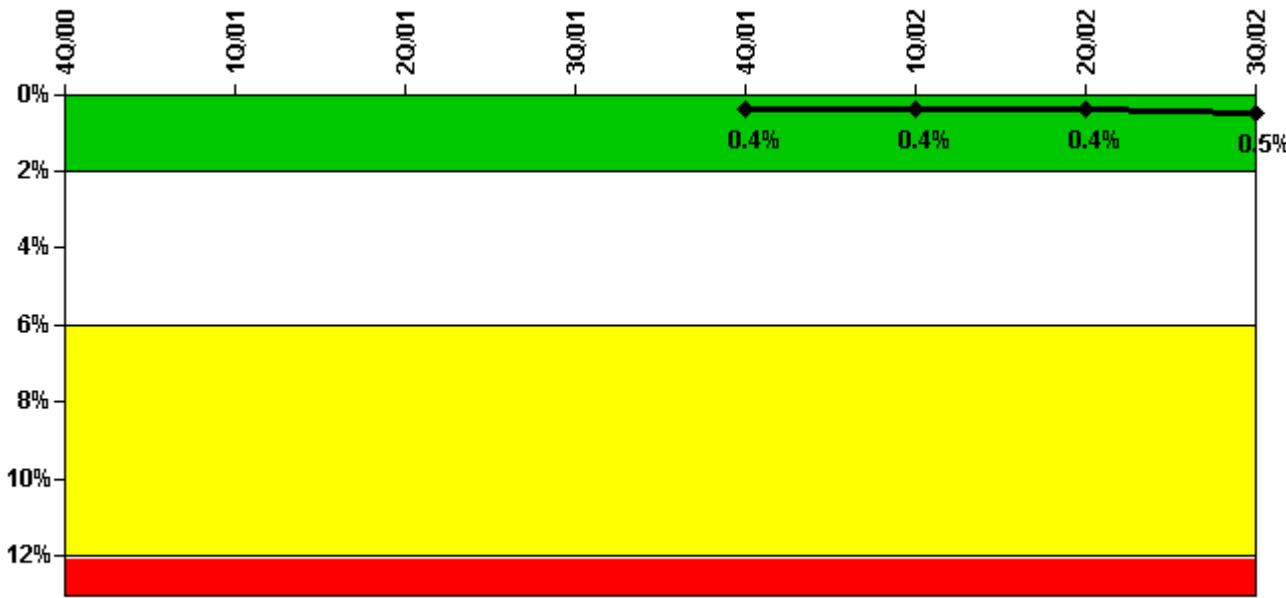
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	9.18	0	0	0	15.45	11.00	0	10.03
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1524.47	2209.00	1389.76	2183.00	2118.98
Train 2								
Planned unavailable hours	0	16.65	0	20.92	0	1.87	0	11.82
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1501.97	2209.00	1329.94	2183.00	2208.00
Train 3								
Planned unavailable hours	3.72	13.83	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1524.47	2209.00	1389.76	2183.00	2118.98
Train 4								
Planned unavailable hours	0	0	5.57	0	12.48	0	5.95	0
Unplanned unavailable hours	0	0	0	0	0	0	0	18.77
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1501.97	2209.00	1329.94	2183.00	2118.98
Indicator value						0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



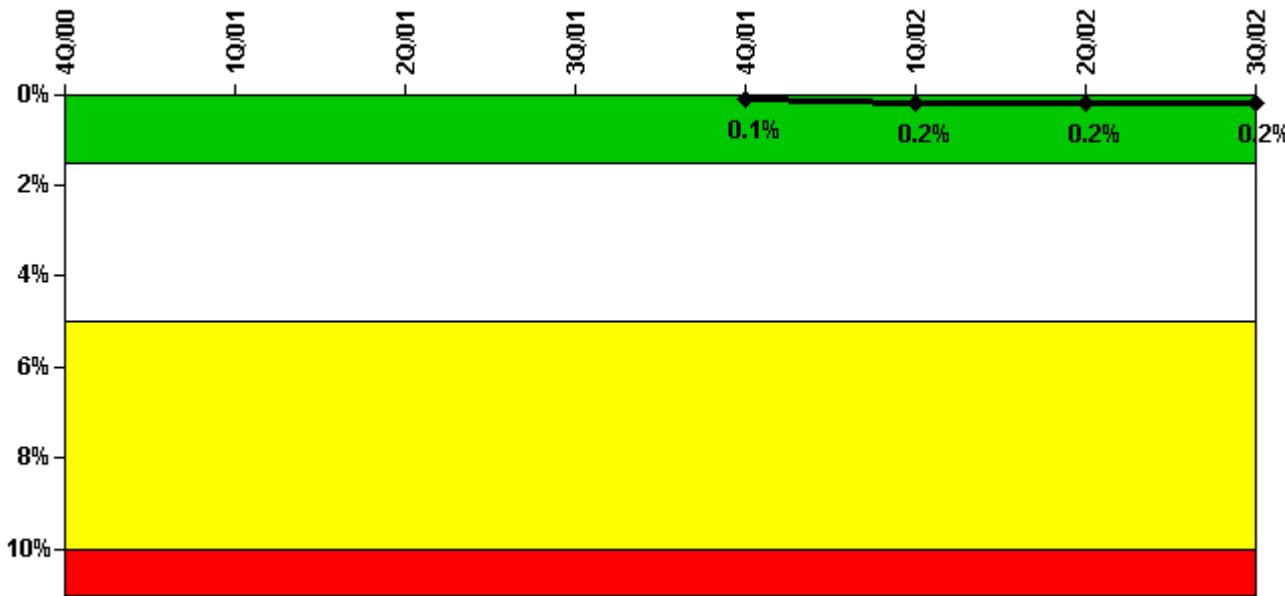
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	0	5.58	0	1.32	0	0	0	6.85
Unplanned unavailable hours	0	0	0	0	0	0	0	27.33
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1579.05	2209.00	438.92	2183.00	2118.98
Train 2								
Planned unavailable hours	10.41	0	1.00	1.85	0	2.52	9.23	9.05
Unplanned unavailable hours	0	0	0	0	0	0	6.08	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1579.05	2209.00	438.92	2183.00	2118.98
Train 3								
Planned unavailable hours	0	11.98	0	5.75	0	0	0	23.93
Unplanned unavailable hours	0	0	0	32.39	0	14.79	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1579.05	2209.00	438.92	2183.00	2118.98
Indicator value					0.4%	0.4%	0.4%	0.5%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

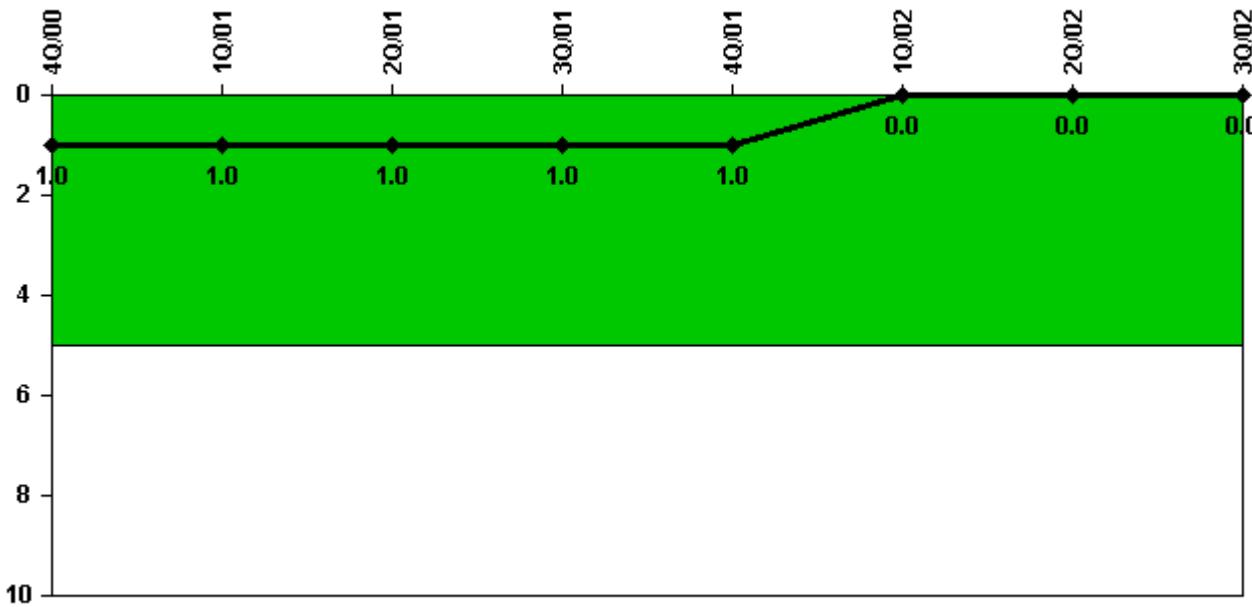


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System		4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1									
Planned unavailable hours		11.70	6.63	0	11.78	0	15.62	0	8.77
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2209.00	2160.00	2183.00	2208.00	2209.00	1857.00	2183.00	2208.00
Train 2									
Planned unavailable hours		0	6.97	0	0	0	7.58	0	10.20
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2209.00	2160.00	2183.00	2208.00	2209.00	1857.00	2183.00	2208.00
Indicator value						0.1%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)

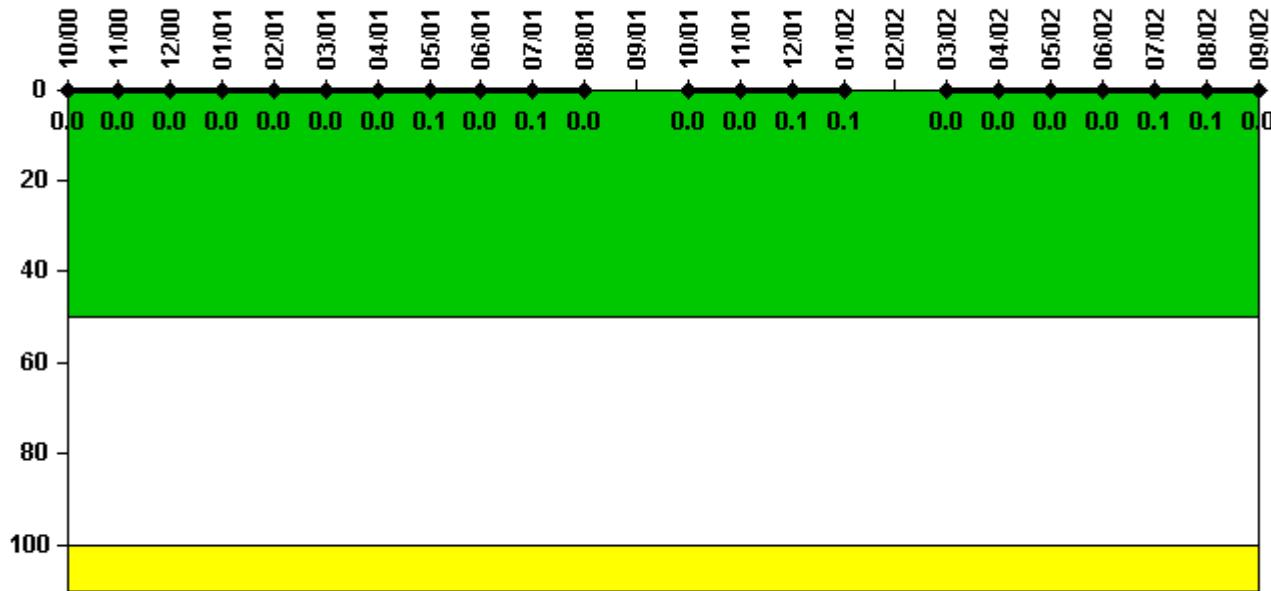
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Safety System Functional Failures	0	1	0	0	0	0	0	0
Indicator value	1	1	1	1	1	0	0	0

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

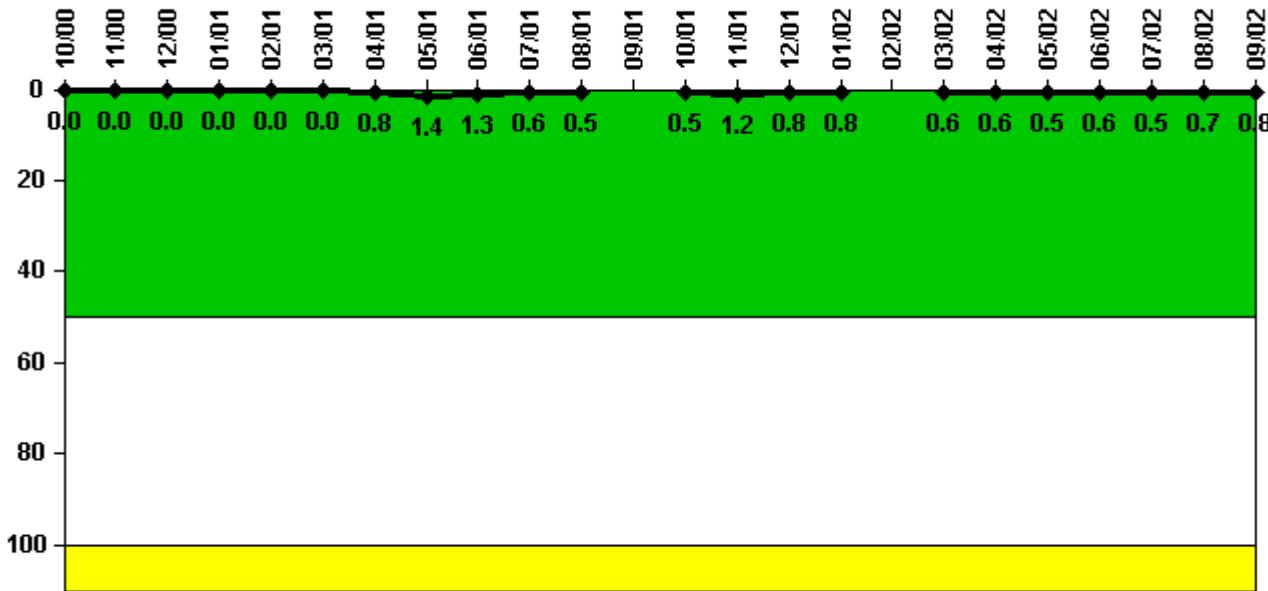
Notes

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum activity	0.000363	0.000386	0.000370	0.000394	0.000414	0.000401	0.000407	0.000508	0.000452	0.000677	0.000474	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0.1	0	0.1	0	N/A

Reactor Coolant System Activity	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum activity	0.000480	0.000497	0.000515	0.000509	N/A	0.000212	0.000242	0.000214	0.000238	0.001100	0.000641	0.000316
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0.1	0.1	N/A	0	0	0	0	0.1	0.1	0

Licensee Comments: none

Reactor Coolant System Leakage



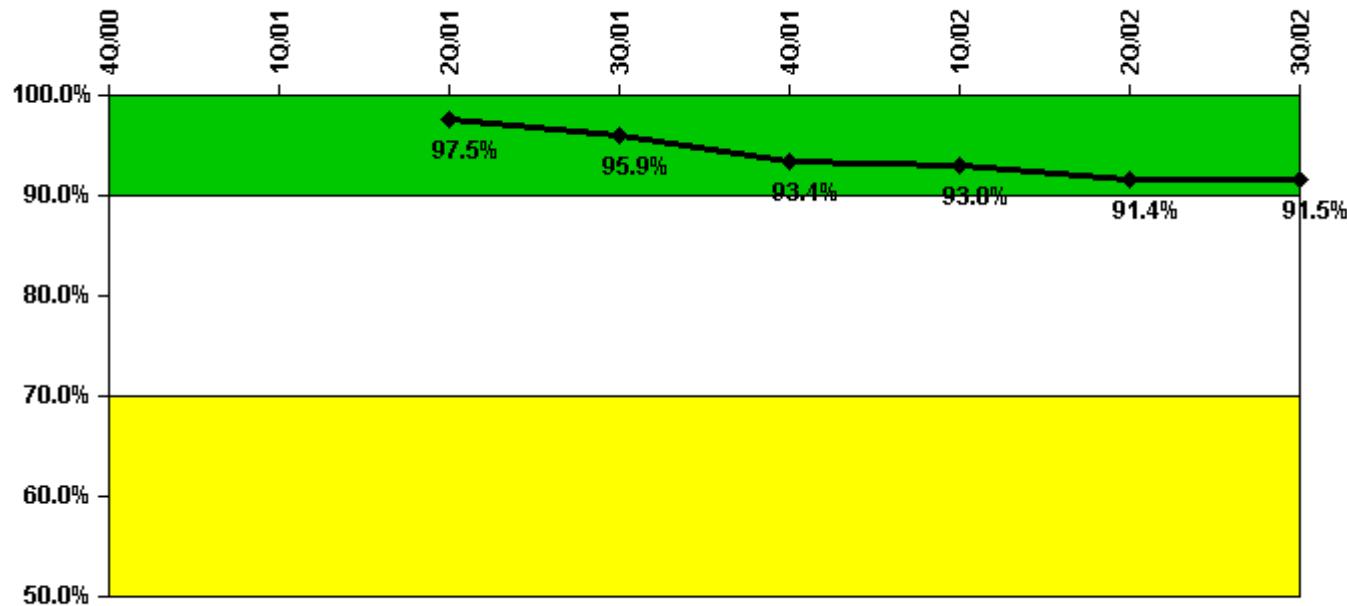
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum leakage	0	0	0	0	0	0	0.090	0.150	0.140	0.070	0.050	N/A
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0	0	0	0	0	0	0.8	1.4	1.3	0.6	0.5	N/A
Reactor Coolant System Leakage	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum leakage	0.050	0.130	0.090	0.085	N/A	0.068	0.071	0.057	0.064	0.058	0.080	0.086
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.5	1.2	0.8	0.8	N/A	0.6	0.6	0.5	0.6	0.5	0.7	0.8

Licensee Comments: none

Drill/Exercise Performance



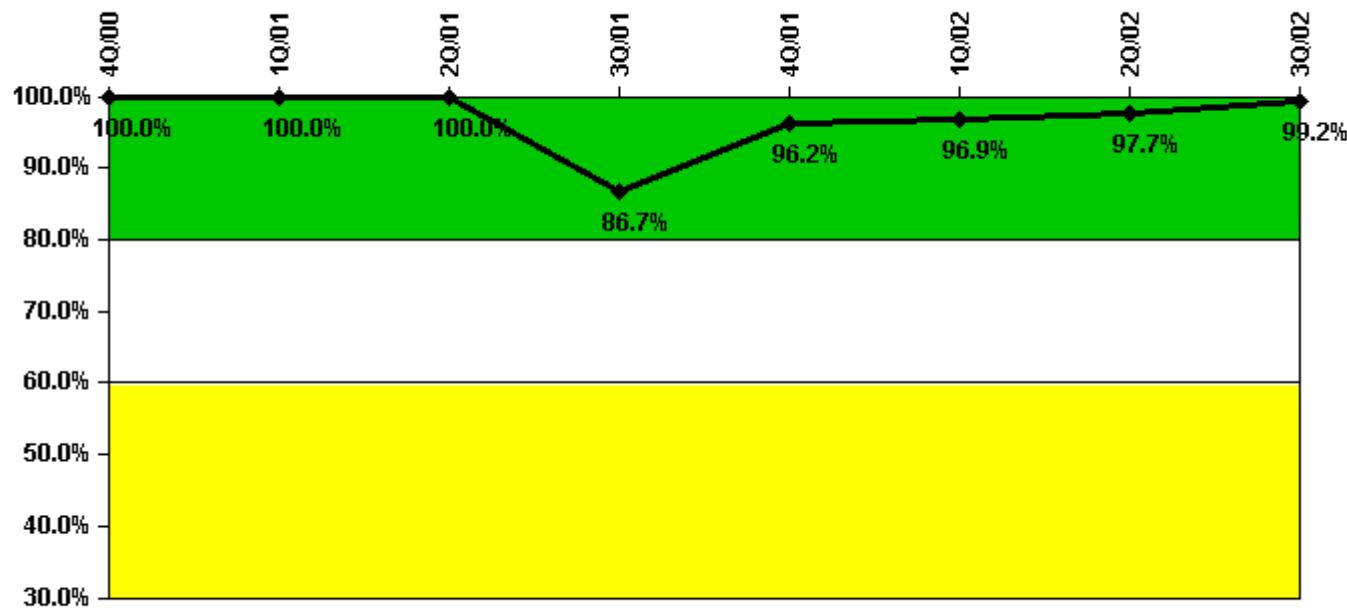
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful opportunities	24.0	44.0	35.0	69.0	90.0	43.0	26.0	141.0
Total opportunities	26.0	44.0	36.0	76.0	104.0	46.0	34.0	150.0
Indicator value								

Licensee Comments: none

ERO Drill Participation



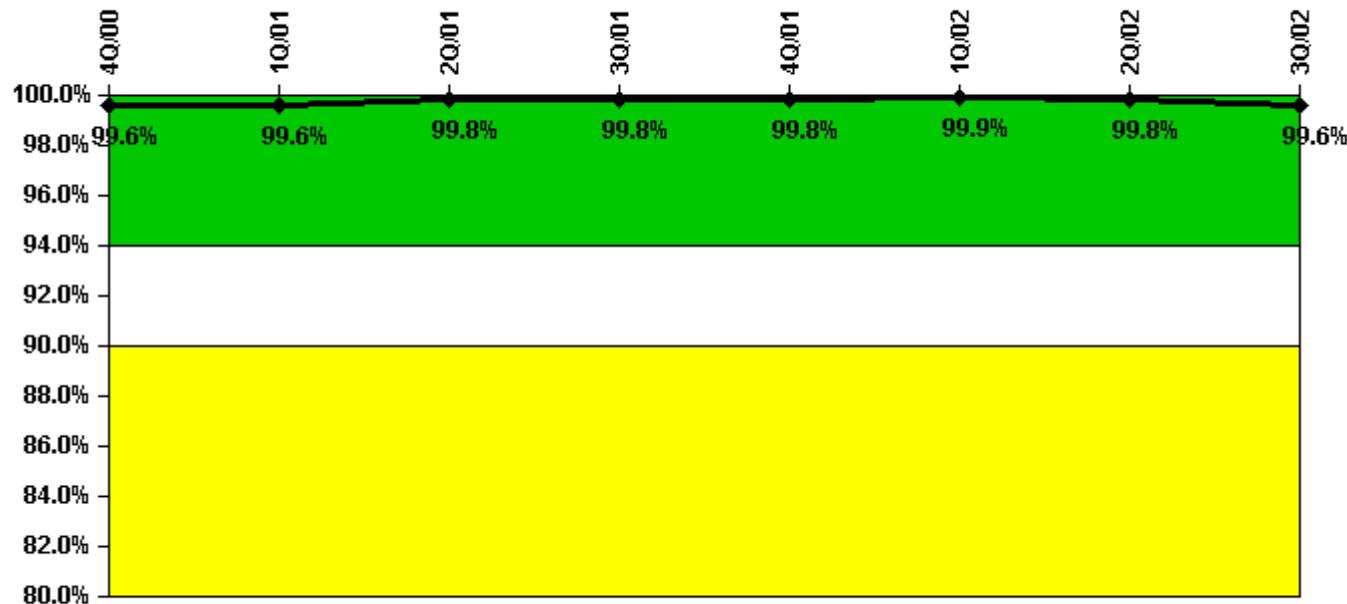
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Participating Key personnel	50.0	54.0	55.0	111.0	125.0	127.0	125.0	130.0
Total Key personnel	50.0	54.0	55.0	128.0	130.0	131.0	128.0	131.0
Indicator value	100.0%	100.0%	100.0%	86.7%	96.2%	96.9%	97.7%	99.2%

Licensee Comments: none

Alert & Notification System

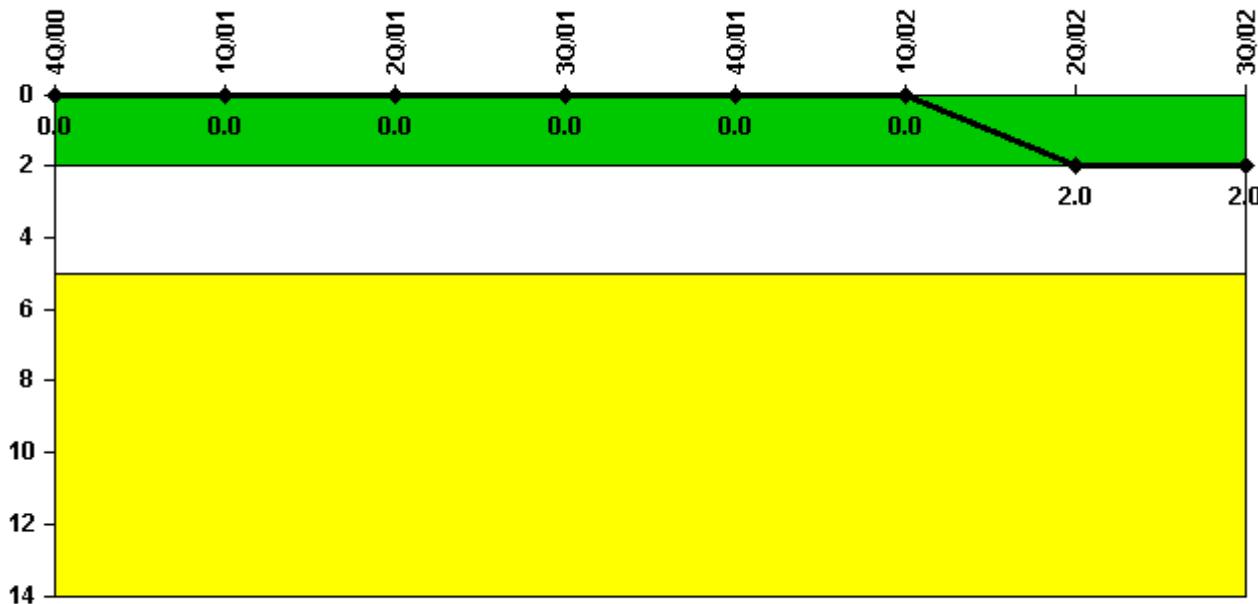


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful siren-tests	209	209	210	210	209	210	209	209
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	99.6%	99.6%	99.8%	99.8%	99.8%	99.9%	99.8%	99.6%

Licensee Comments: none

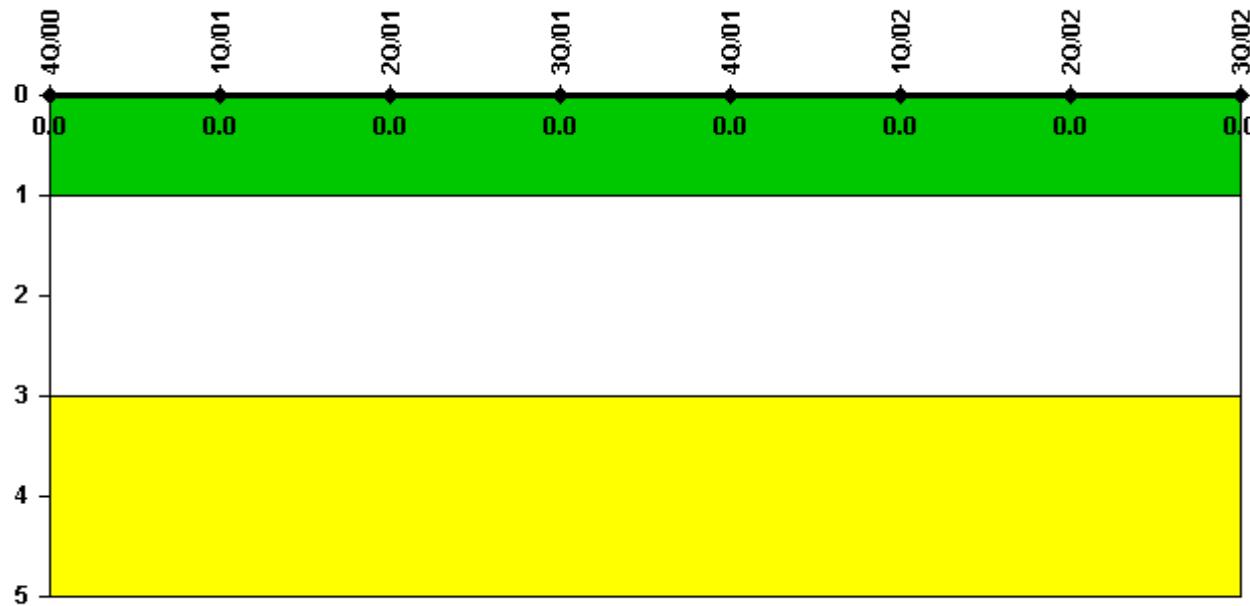
Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
High radiation area occurrences	0	0	0	0	0	0	2	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	2	2

Licensee Comments: none

RETS/ODCM Radiological Effluent

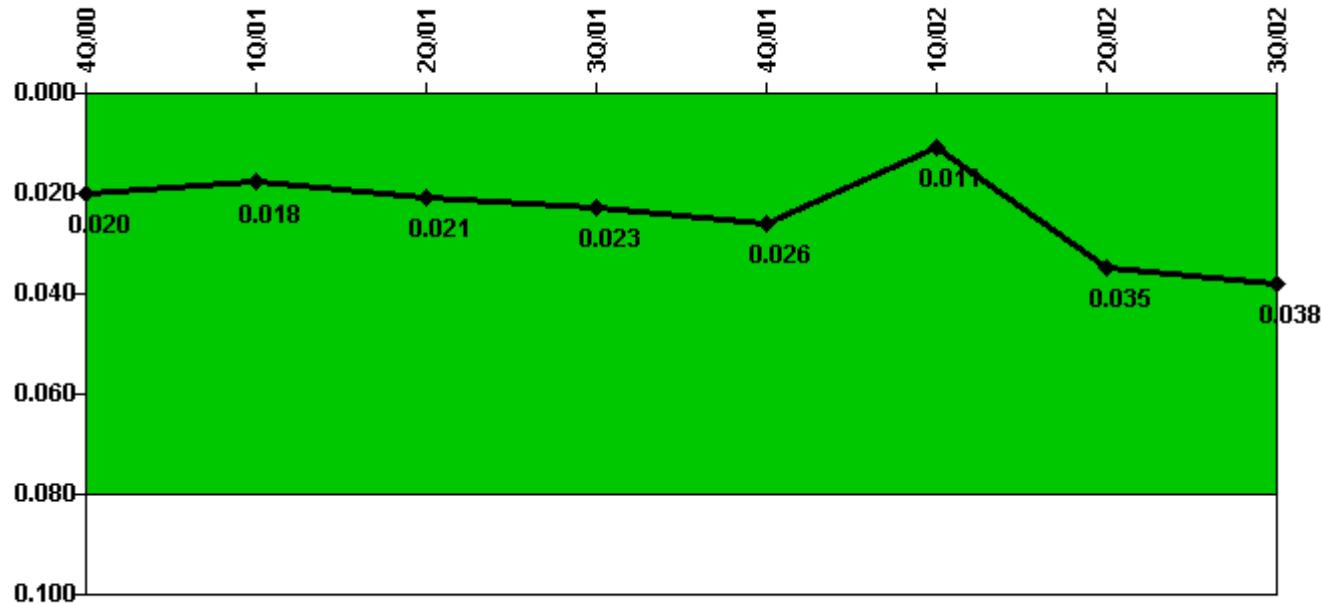
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



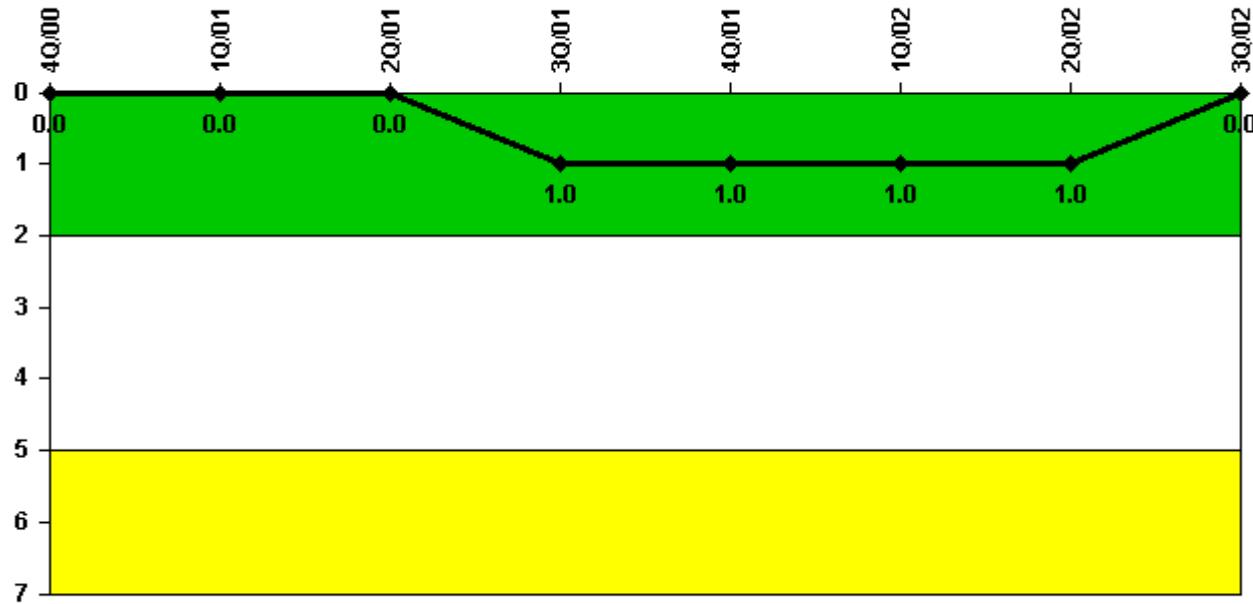
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
IDS compensatory hours	40.38	376.40	97.80	49.50	103.70	28.20	680.50	111.70
CCTV compensatory hours	0	0	0.3	0	0	0	0	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.020	0.018	0.021	0.023	0.026	0.011	0.035	0.038

Licensee Comments: none

Personnel Screening Program

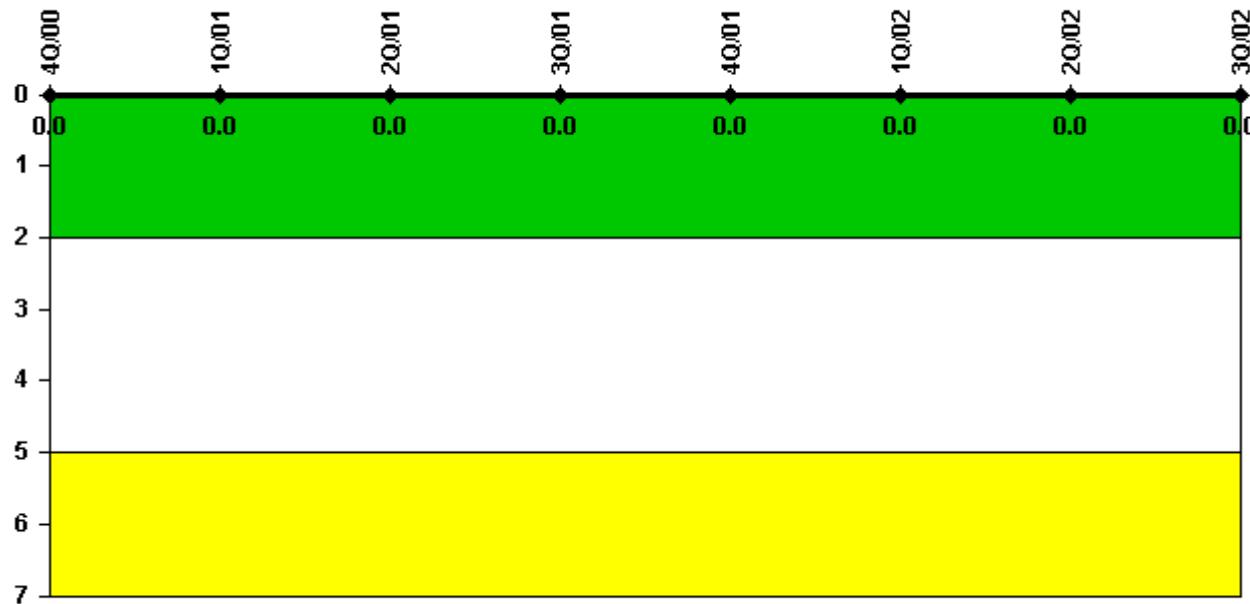


Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Program failures	0	0	0	1	0	0	0	0
Indicator value	0	0	0	1	1	1	1	0

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Program Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

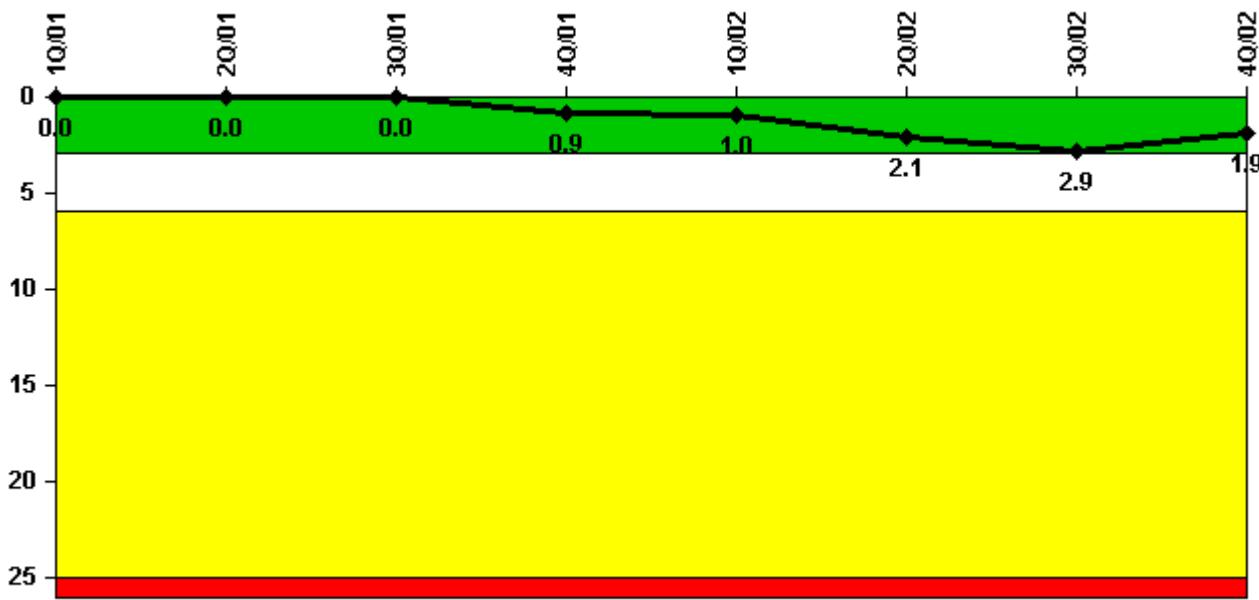


[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

Last Modified: October 22, 2002

D.C. Cook 2**4Q/2002 Performance Indicators**

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

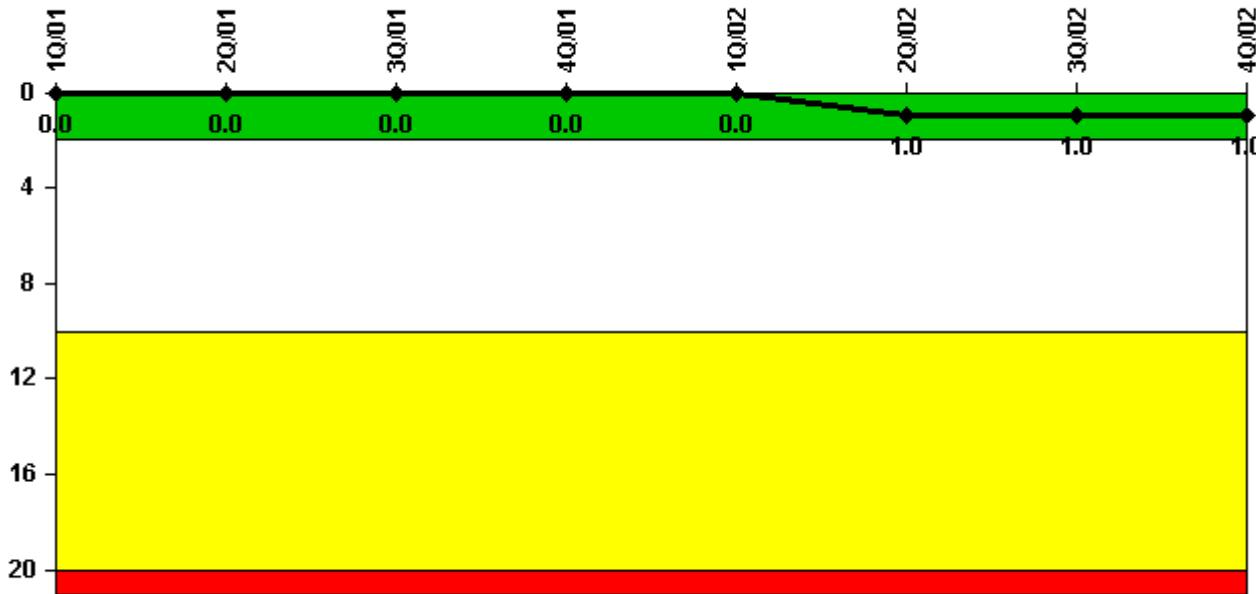
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned scrams	0	0	0	1.0	0	1.0	1.0	0
Critical hours	2076.0	2183.0	1454.0	2008.0	1261.5	1965.5	2027.5	2209.0
Indicator value	0	0	0	0.9	1.0	2.1	2.9	1.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

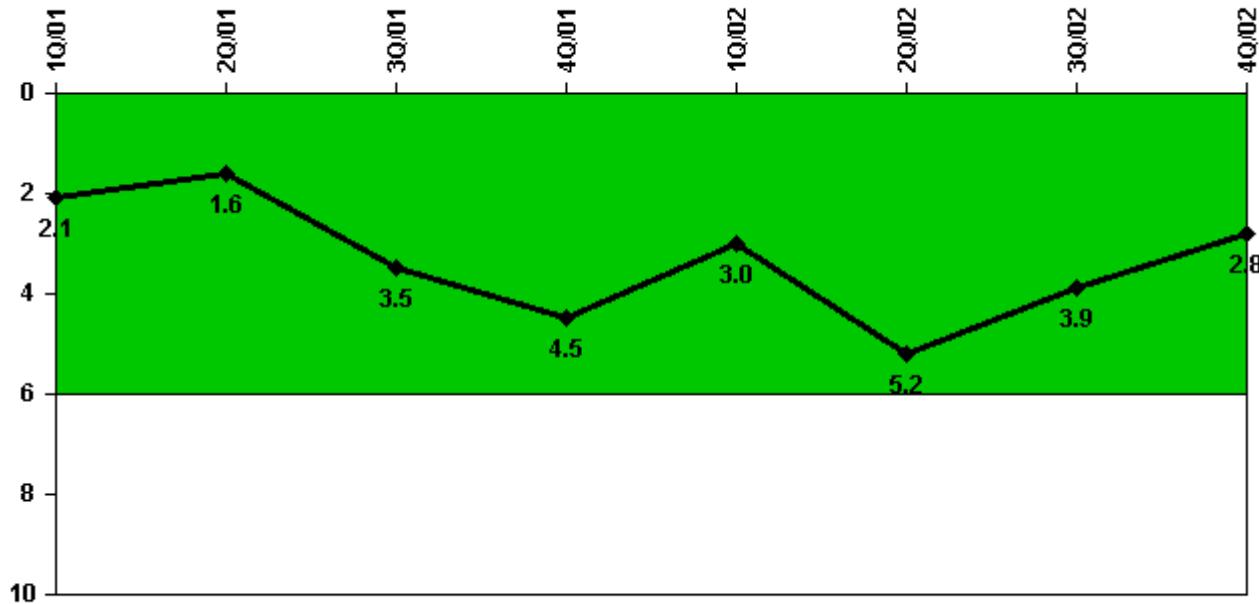
Notes

Scrams with Loss of Normal Heat Removal	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Scrams	0	0	0	0	0	1.0	0	0
Indicator value	0	0	0	0	0	1.0	1.0	1.0

Licensee Comments:

4Q/02: Two frequently asked questions have been submitted to address two reactor scrams for which the NRC resident inspection believes should be counted under this reporting criteria.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

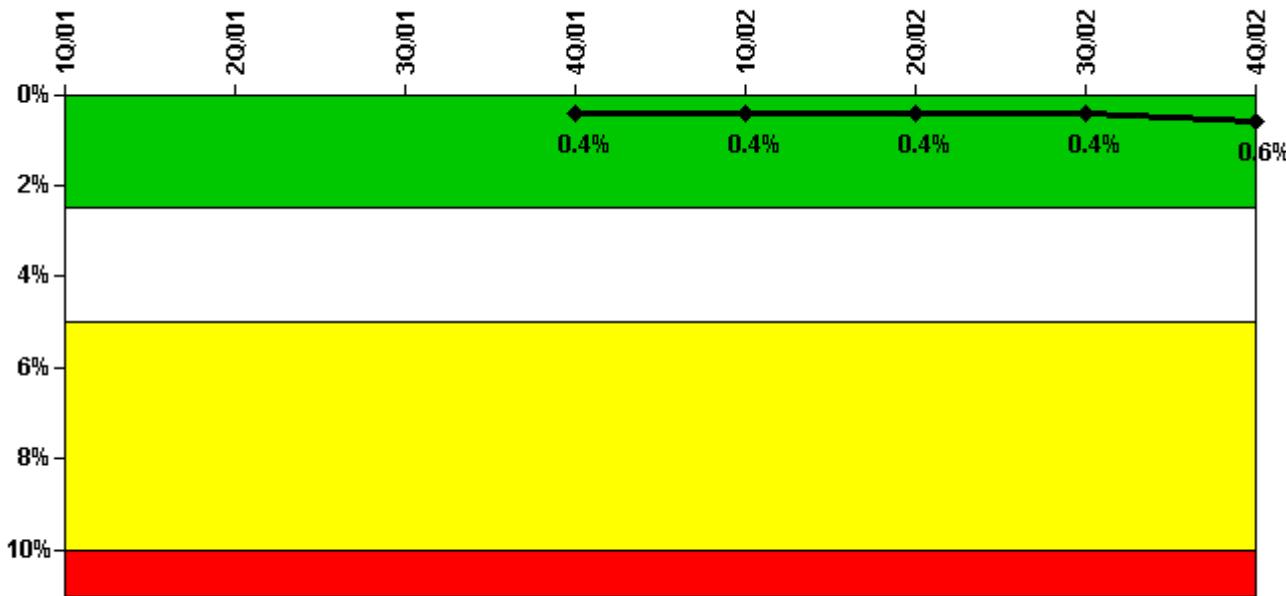
Unplanned Power Changes per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned power changes	2.0	0	2.0	1.0	0	2.0	1.0	0
Critical hours	2076.0	2183.0	1454.0	2008.0	1261.5	1965.5	2027.5	2209.0
Indicator value	2.1	1.6	3.5	4.5	3.0	5.2	3.9	2.8

Licensee Comments:

4Q/02: In the third quarter of 2002 CNP submitted two frequently asked questions (FAQ). Based on review and discussions with the NRC one of the two FAQ was withdrawn and the performance indicator was revised to account for one additional down power in the second quarter of 2002. Resolution of the second FAQ is pending. November 2002 enforcement discretion granted for Technical Specification 3.8.1.1 to facilitate maintenance to the 2 CD emergency diesel generator.

2Q/02: A Technical Specification shutdown was commenced and was terminated when reactor power was approximately 40 percent. The shutdown was required due to visual indications of cracking on a unit 2 station battery causing the battery to be declared inoperable. The shutdown was terminated after receiving a notice of enforcement discretion. Data revised to add one unplanned power change based on the withdrawal of a FAQ.

Safety System Unavailability, Emergency AC Power



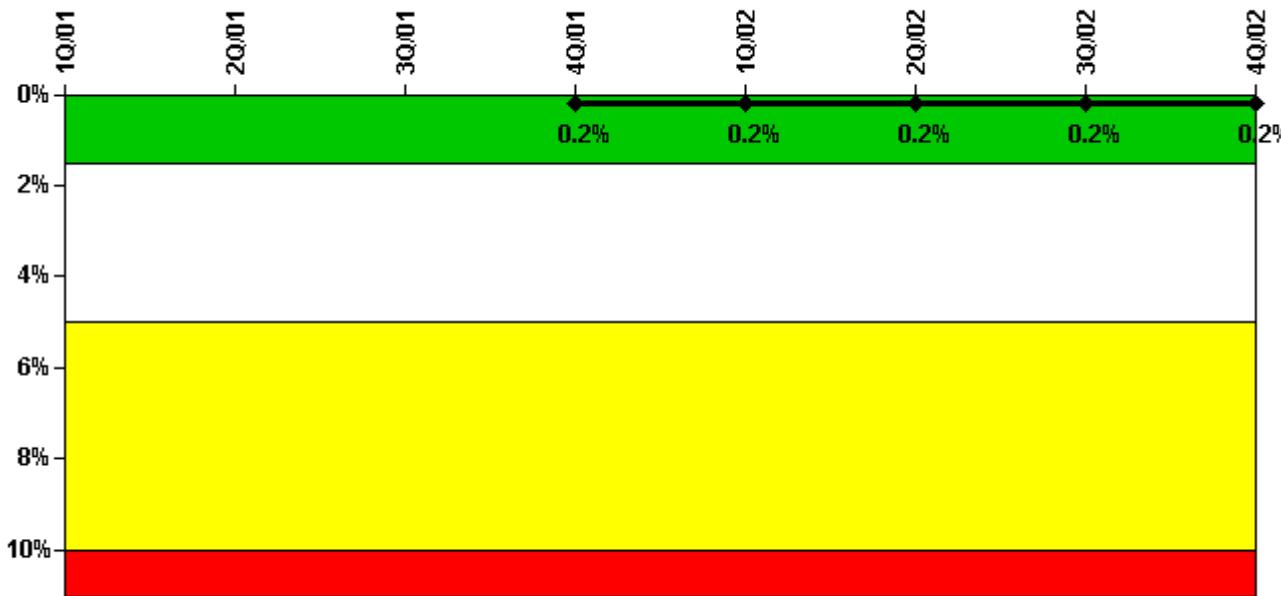
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	0.47	5.20	0.30	1.20	5.38	11.33	0.70	0.70
Unplanned unavailable hours	0	0	0.90	0	0	0	0	81.80
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1903.80	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	27.25	26.18	0.58	2.22	0.20	14.60	22.90	6.30
Unplanned unavailable hours	0	0	0.90	0	0	0	0	18.80
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1524.50	2209.00	2064.00	2183.00	2208.00	2209.00
Indicator value				0.4%	0.4%	0.4%	0.4%	0.6%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



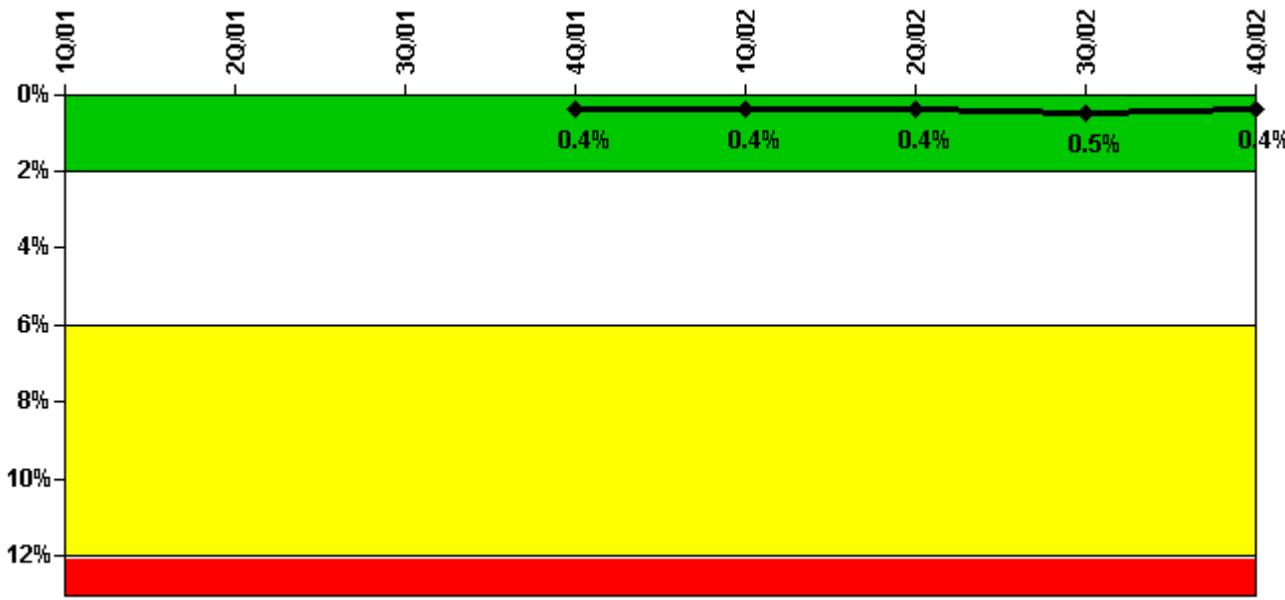
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	0	0	0	15.45	11.00	0	10.03	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1524.47	2209.00	1389.76	2183.00	2118.98	2209.00
Train 2								
Planned unavailable hours	16.65	0	20.92	0	1.87	0	11.82	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1501.97	2209.00	1329.94	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	13.83	0	0	0	0	0	0	23.15
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1524.47	2209.00	1389.76	2183.00	2118.98	2209.00
Train 4								
Planned unavailable hours	0	5.57	0	12.48	0	5.95	0	0
Unplanned unavailable hours	0	0	0	0	0	0	18.77	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1501.97	2209.00	1329.94	2183.00	2118.98	2209.00
Indicator value					0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



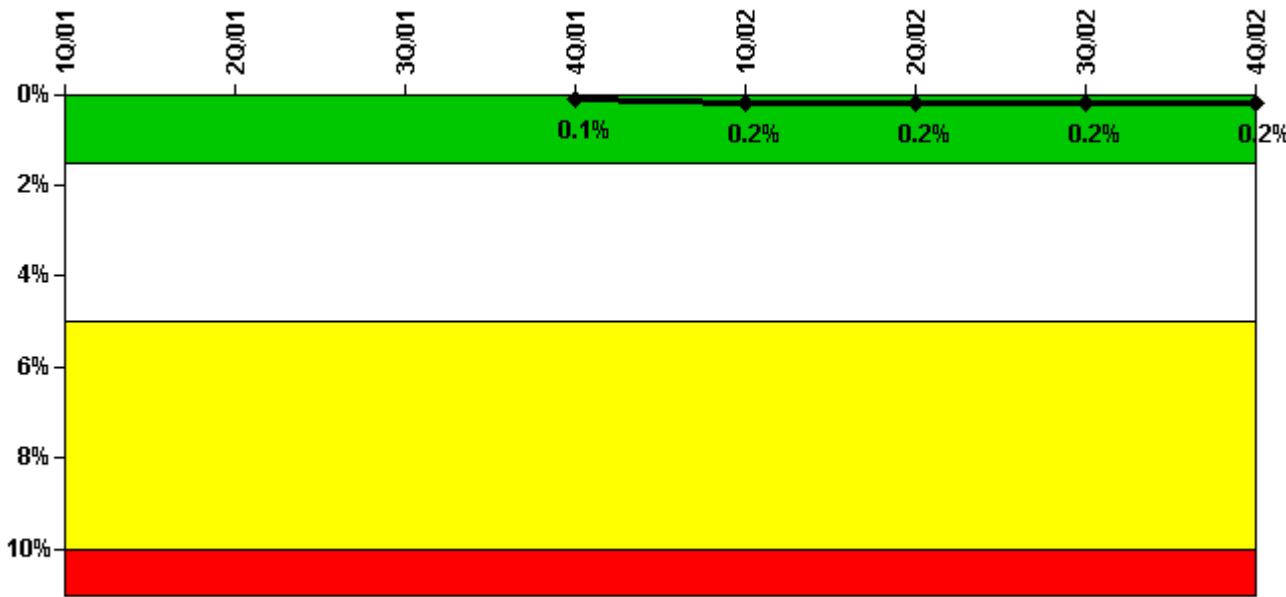
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	5.58	0	1.32	0	0	0	6.85	0
Unplanned unavailable hours	0	0	0	0	0	0	27.33	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1579.05	2209.00	438.92	2183.00	2118.98	2209.00
Train 2								
Planned unavailable hours	0	1.00	1.85	0	2.52	9.23	9.05	0
Unplanned unavailable hours	0	0	0	0	0	6.08	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1579.05	2209.00	438.92	2183.00	2118.98	2209.00
Train 3								
Planned unavailable hours	11.98	0	5.75	0	0	0	23.93	0
Unplanned unavailable hours	0	0	32.39	0	14.79	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1579.05	2209.00	438.92	2183.00	2118.98	2209.00
Indicator value				0.4%	0.4%	0.4%	0.5%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

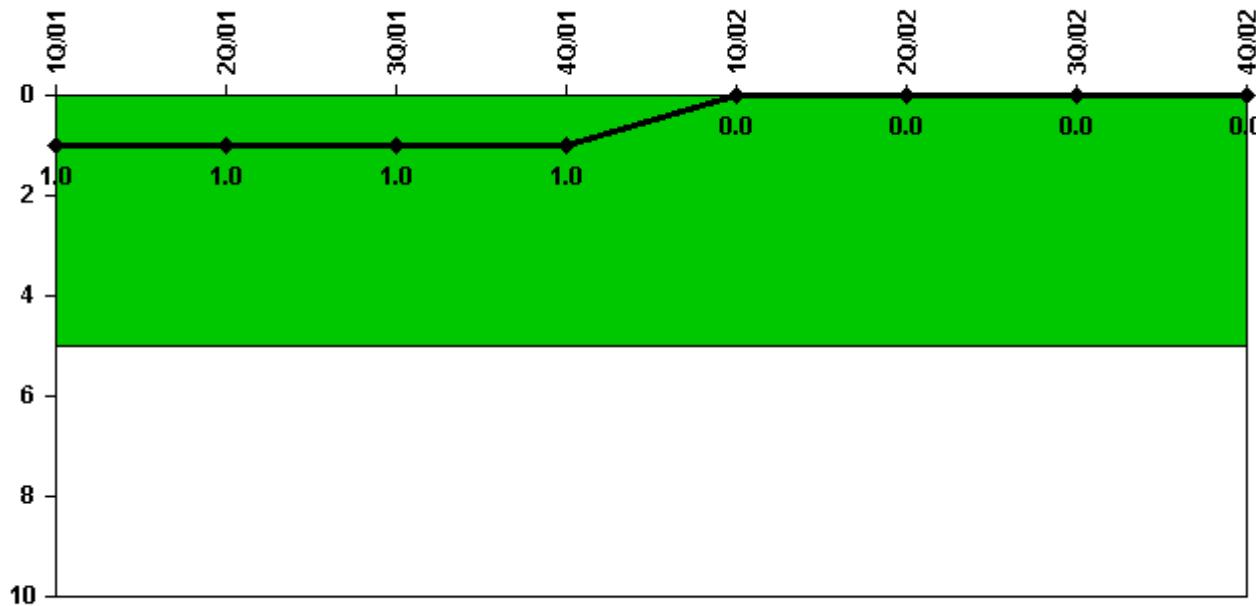


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	6.63	0	11.78	0	15.62	0	8.77	8.05
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1857.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	6.97	0	0	0	7.58	0	10.20	6.03
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1857.00	2183.00	2208.00	2209.00
Indicator value				0.1%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)

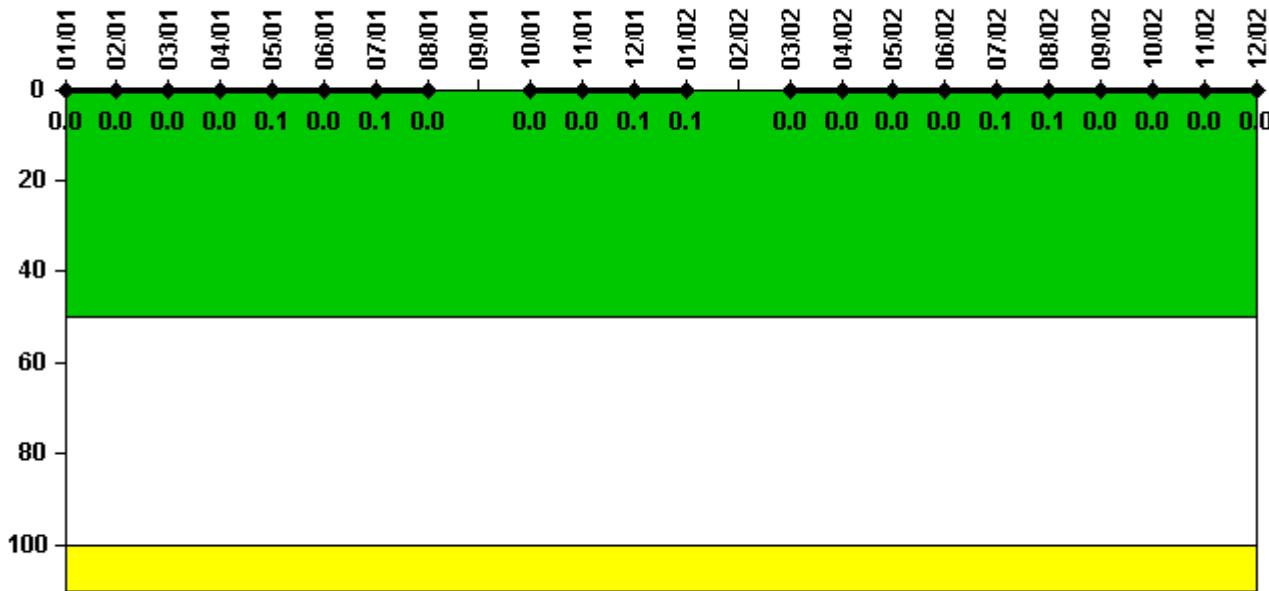
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Safety System Functional Failures	1	0	0	0	0	0	0	0
Indicator value	1	1	1	1	0	0	0	0

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

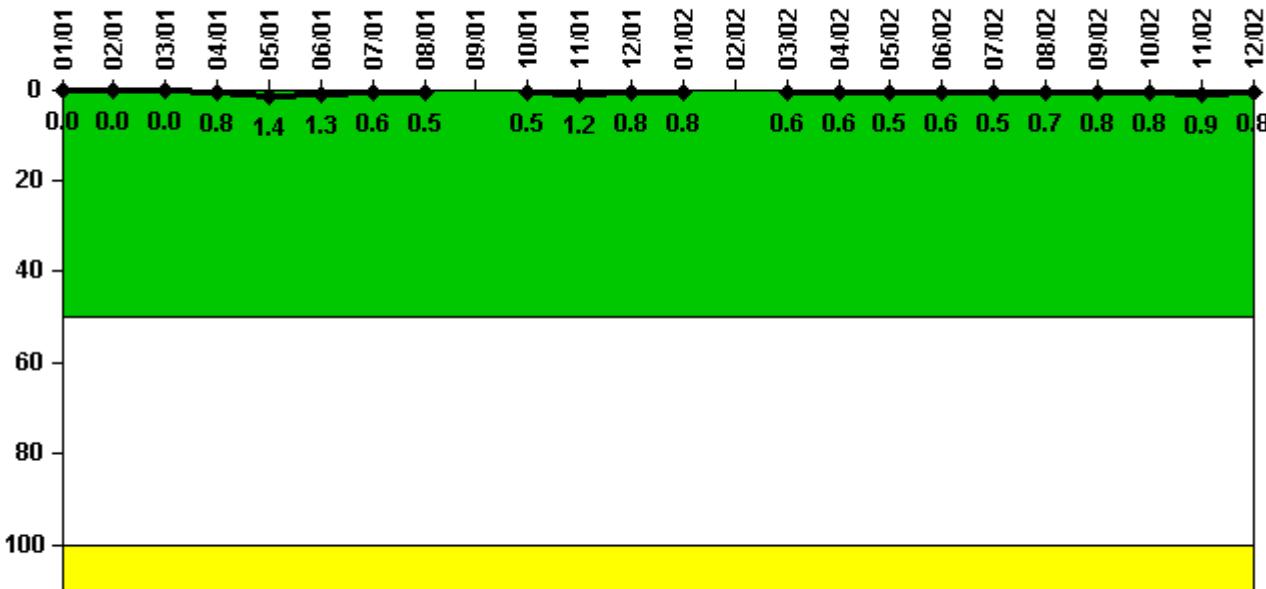
Reactor Coolant System Activity	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum activity	0.000394	0.000414	0.000401	0.000407	0.000508	0.000452	0.000677	0.000474	N/A	0.000480	0.000497	0.000515
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0.1	0	0.1	0	N/A	0	0	0.1

Reactor Coolant System Activity	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum activity	0.000509	N/A	0.000212	0.000242	0.000214	0.000238	0.001100	0.000641	0.000316	0.000359	0.000324	0.000313
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	N/A	0	0	0	0	0.1	0.1	0	0	0	0

Licensee Comments:

12/02: No data to report for February 2002 - Unit entered the month in a refueling outage and commenced power ascension at the end of the month.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

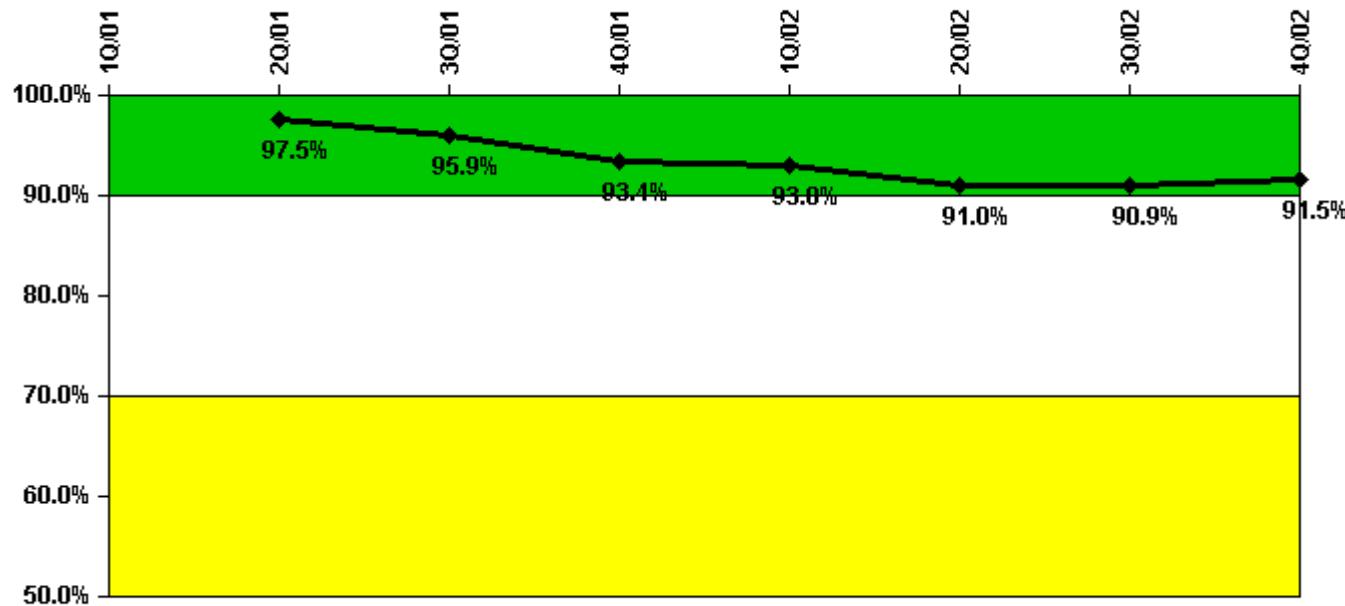
Reactor Coolant System Leakage	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum leakage	0	0	0	0.090	0.150	0.140	0.070	0.050	N/A	0.050	0.130	0.090
Technical specification limit	10.0	10.0	10.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0	0	0	0.8	1.4	1.3	0.6	0.5	N/A	0.5	1.2	0.8

Reactor Coolant System Leakage	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum leakage	0.085	N/A	0.068	0.071	0.057	0.064	0.058	0.080	0.086	0.090	0.100	0.090
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.8	N/A	0.6	0.6	0.5	0.6	0.5	0.7	0.8	0.8	0.9	0.8

Licensee Comments:

12/02: No data to report for February 2002 - Unit entered the month in a refueling outage and commenced power ascension at the end of the month.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

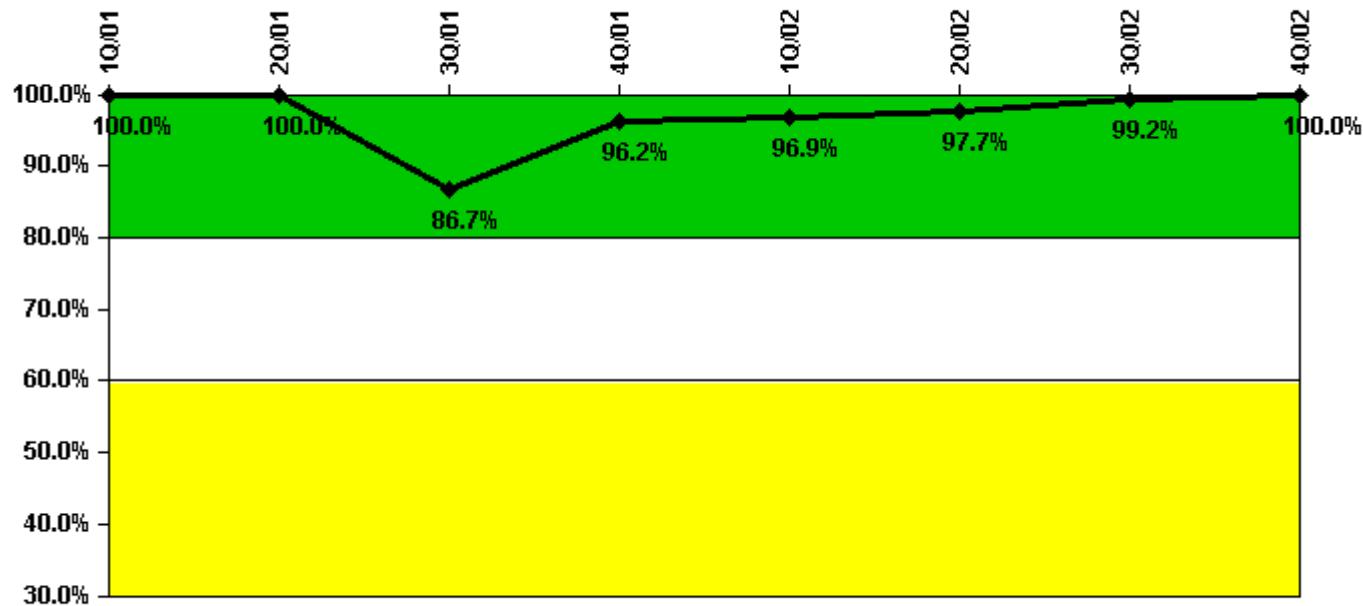
Drill/Exercise Performance	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful opportunities	44.0	35.0	69.0	90.0	43.0	24.0	140.0	149.0
Total opportunities	44.0	36.0	76.0	104.0	46.0	34.0	150.0	159.0
Indicator value		97.5%	95.9%	93.4%	93.0%	91.0%	90.9%	91.5%

Licensee Comments:

3Q/02: Number of drill, exercise and actual event opportunities performed timely and accurately during the quarter decreased by one

2Q/02: The number of drill, exercise and actual event opportunities performed timely and accurately during the quarter decreased by two.

ERO Drill Participation



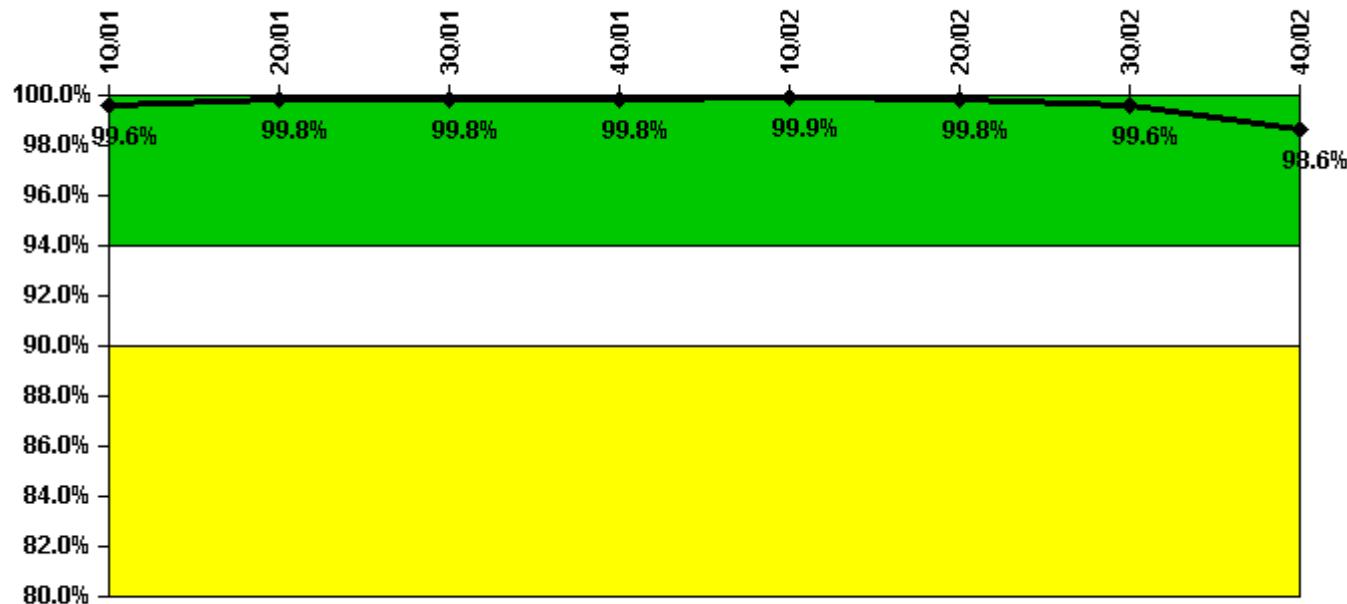
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Participating Key personnel	54.0	55.0	111.0	125.0	127.0	125.0	130.0	131.0
Total Key personnel	54.0	55.0	128.0	130.0	131.0	128.0	131.0	131.0
Indicator value	100.0%	100.0%	86.7%	96.2%	96.9%	97.7%	99.2%	100.0%

Licensee Comments: none

Alert & Notification System



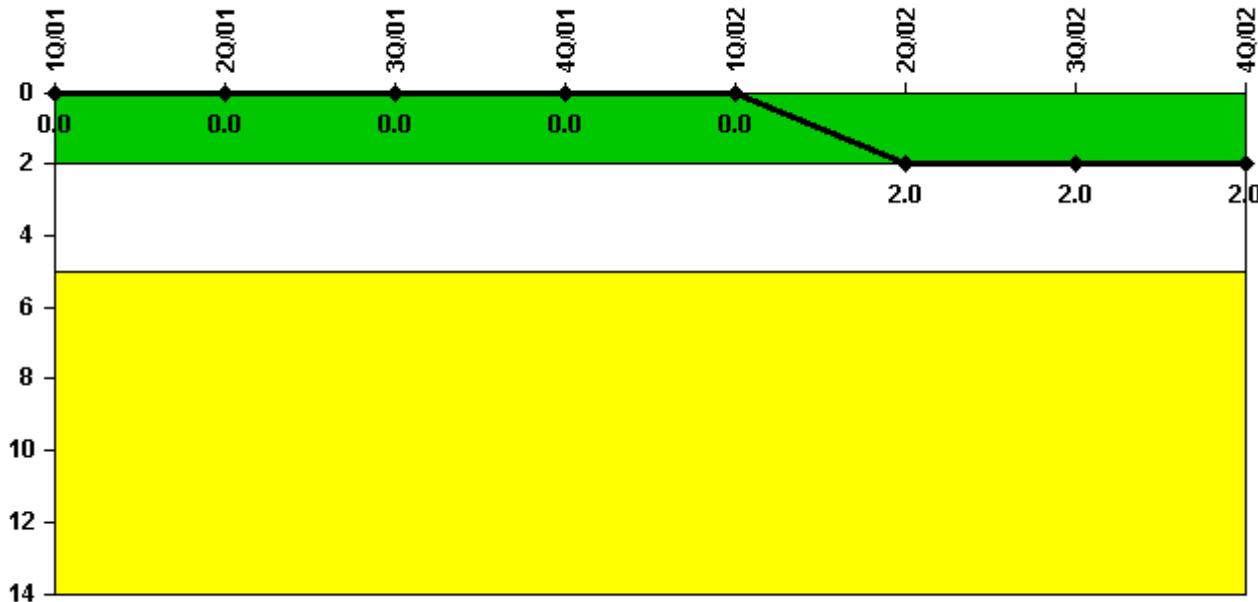
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful siren-tests	209	210	210	209	210	209	209	200
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	99.6%	99.8%	99.8%	99.8%	99.9%	99.8%	99.6%	98.6%

Licensee Comments:

4Q/02: Decrease due to two hour outage resulting from relay failure in controlling power substation for nine sirens. Not considered an adverse trend.

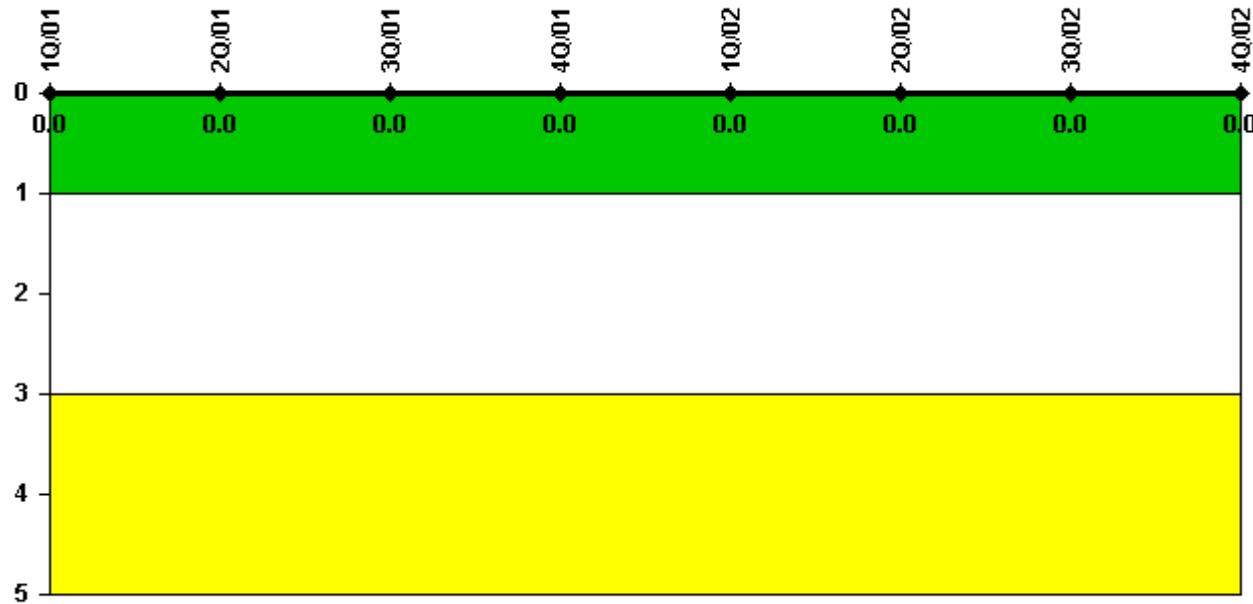
Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
High radiation area occurrences	0	0	0	0	0	2	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	2	2	2

Licensee Comments: none

RETS/ODCM Radiological Effluent

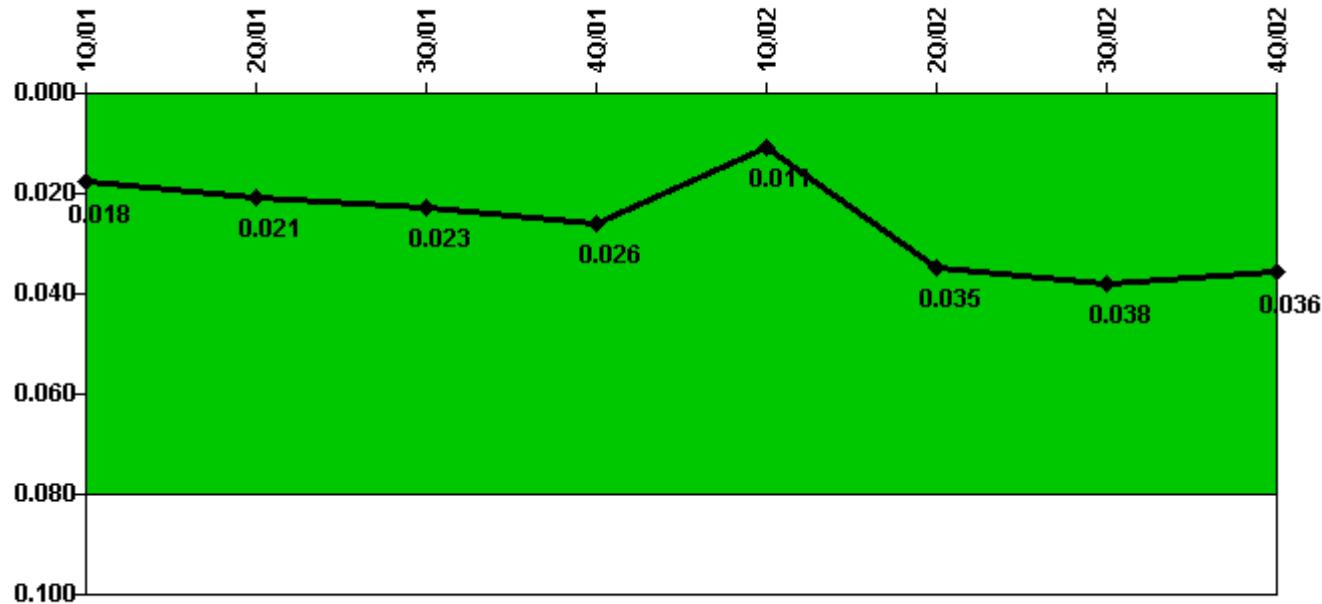
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

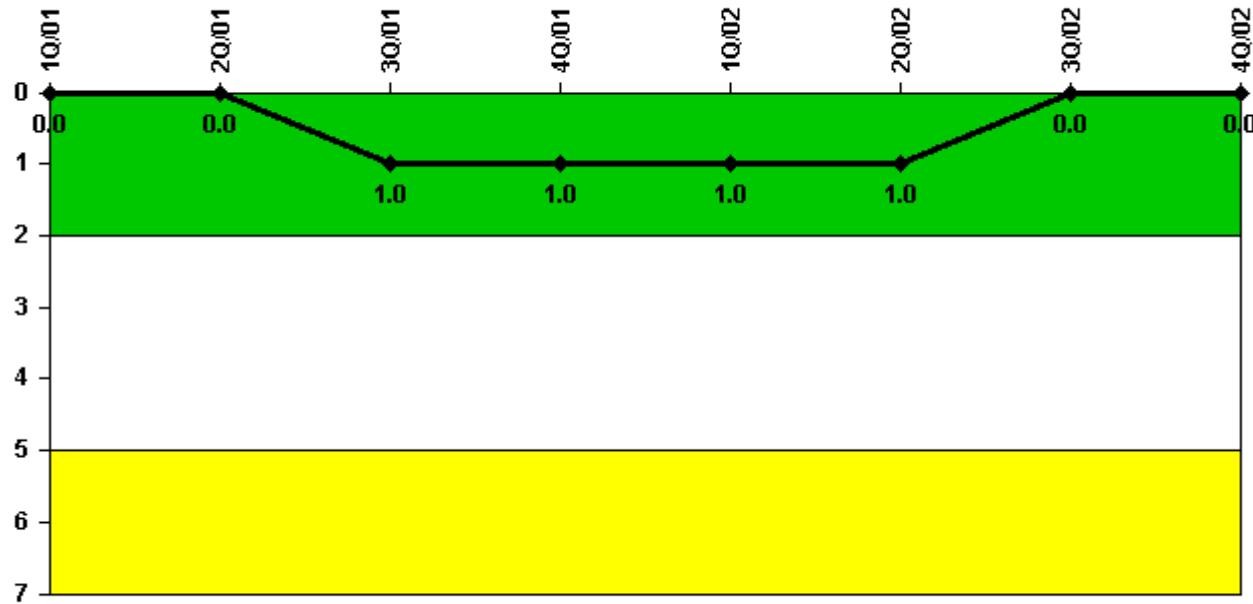
Notes

Protected Area Security Performance Index	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
IDS compensatory hours	376.40	97.80	49.50	103.70	28.20	680.50	111.70	52.10
CCTV compensatory hours	0	0.3	0	0	0	0	0	4.4
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.018	0.021	0.023	0.026	0.011	0.035	0.038	0.036

Licensee Comments:

4Q/02: In accordance with NEI 99-02, compensatory hours associated with scheduled equipment upgrades that are being performed and those compensatory hours for configuration issues associated with the equipment upgrades are excluded.

Personnel Screening Program

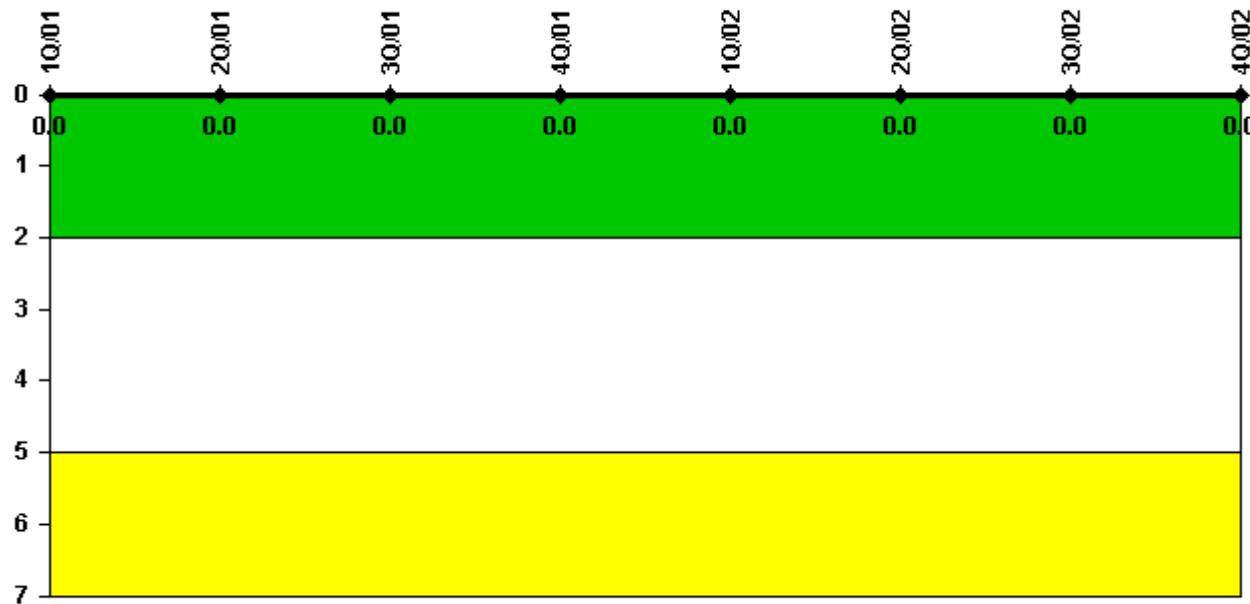


Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Program failures	0	0	1	0	0	0	0	0
Indicator value	0	0	1	1	1	1	0	0

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Program Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none



[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

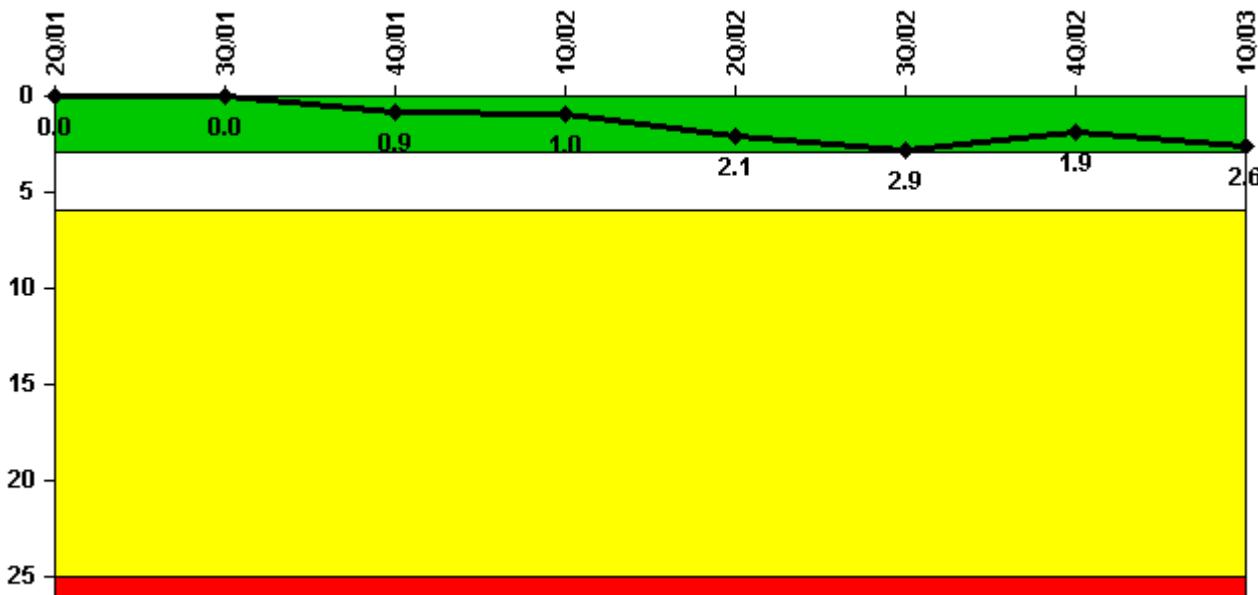
Last Modified: January 30, 2003

D.C. Cook 2

1Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



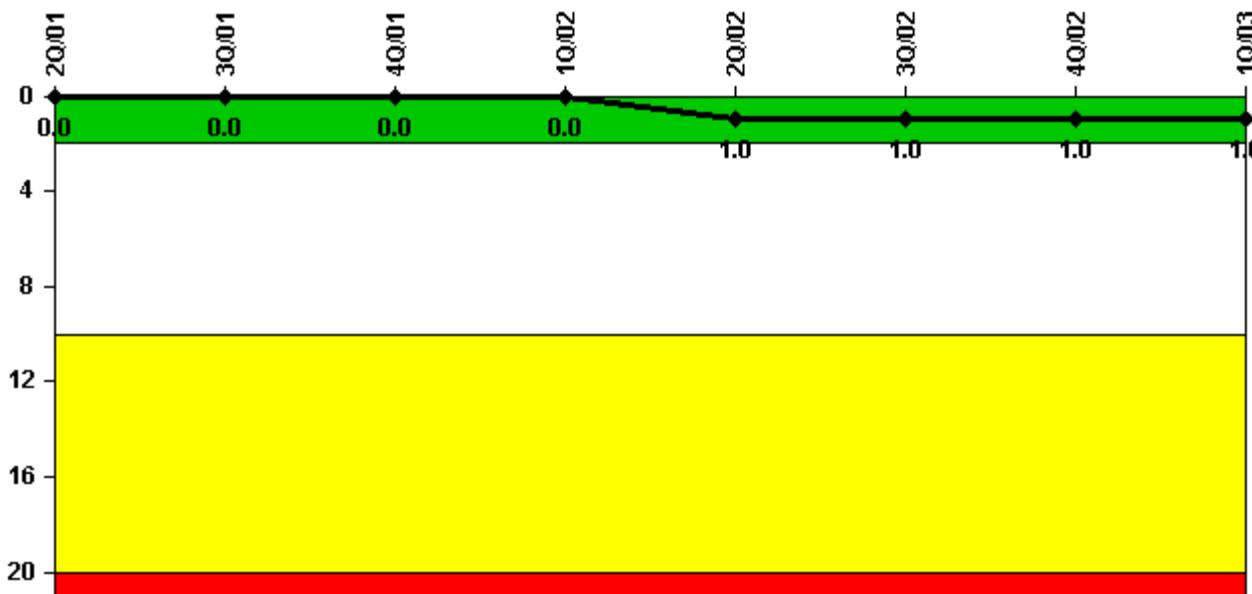
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned scrams	0	0	1.0	0	1.0	1.0	0	1.0
Critical hours	2183.0	1454.0	2008.0	1261.5	1965.5	2027.5	2209.0	1884.6
Indicator value	0	0	0.9	1.0	2.1	2.9	1.9	2.6

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

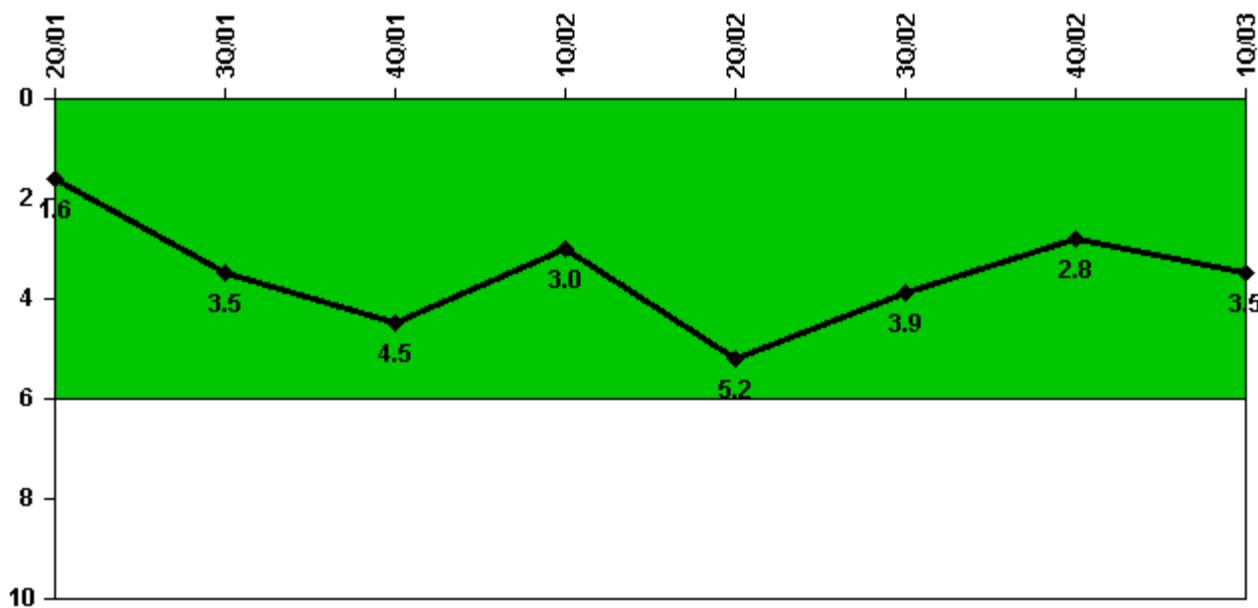
Notes

Scrams with Loss of Normal Heat Removal	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Scrams	0	0	0	0	1.0	0	0	0
Indicator value	0	0	0	0	1.0	1.0	1.0	1.0

Licensee Comments:

1Q/03: Two frequently asked questions have been submitted to address three reactor scrams that the NRC resident inspector believes should be counted under this reporting criteria. Final resolution may result in the green/white performance indicator threshold being exceeded.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

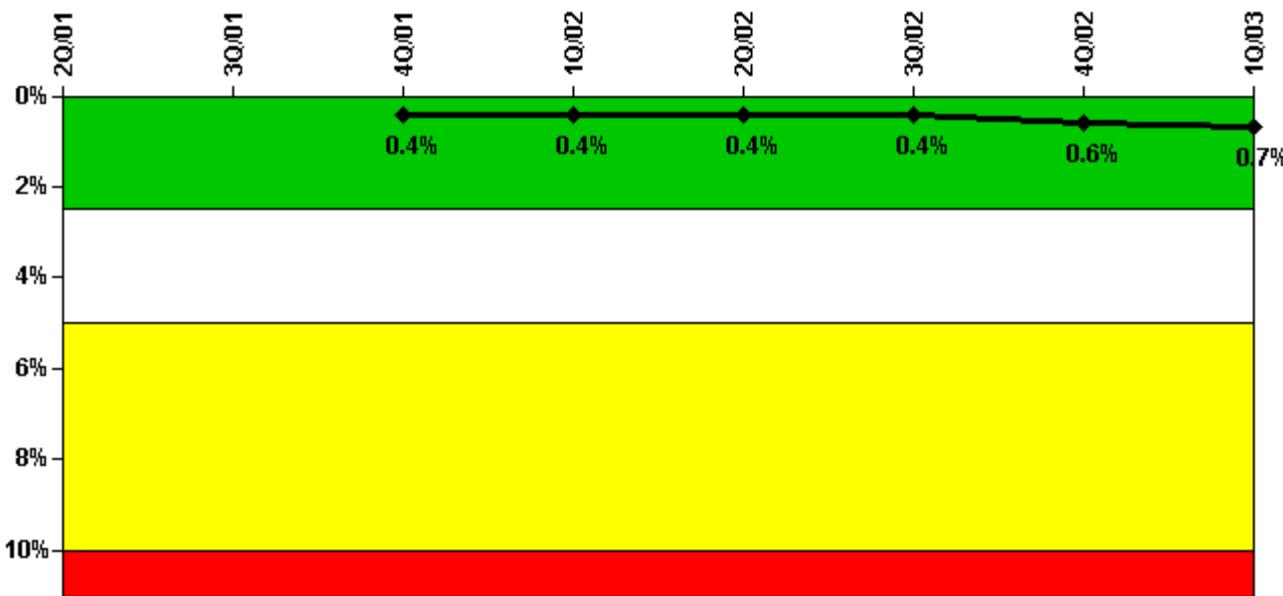
Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned power changes	0	2.0	1.0	0	2.0	1.0	0	1.0
Critical hours	2183.0	1454.0	2008.0	1261.5	1965.5	2027.5	2209.0	1884.6
Indicator value	1.6	3.5	4.5	3.0	5.2	3.9	2.8	3.5

Licensee Comments:

1Q/03: CNP requested and received an NOED to facilitate the replacement of the West motor drive auxiliary feedwater pump motor which otherwise would have resulted in an unplanned power change.

Safety System Unavailability, Emergency AC Power



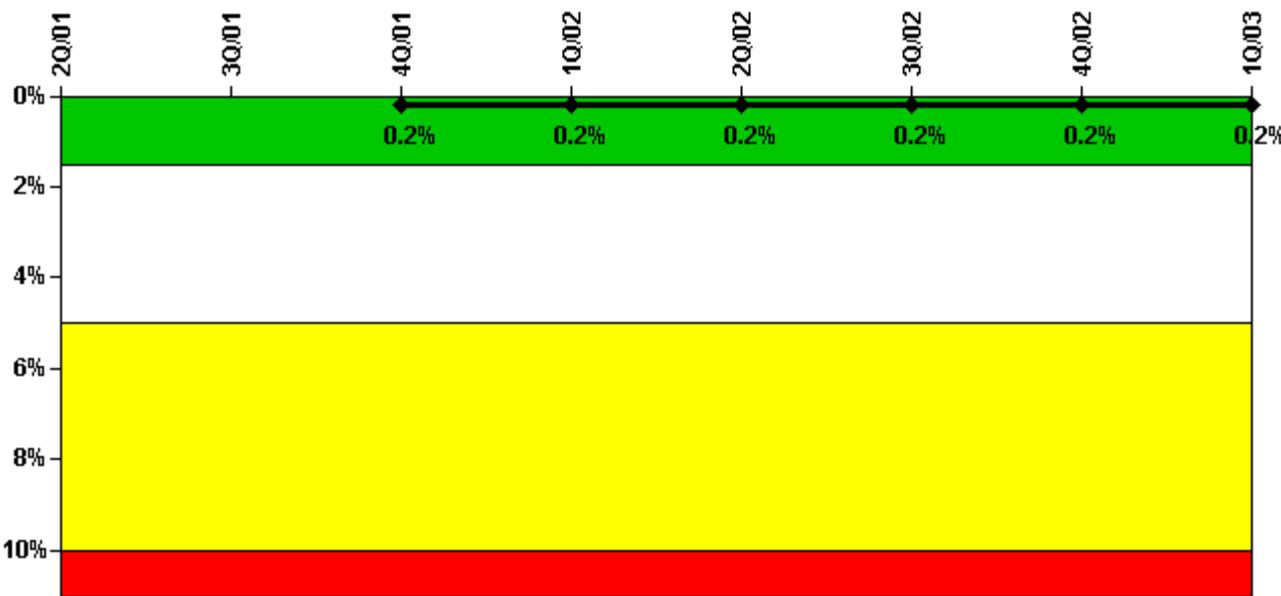
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	5.20	0.30	1.20	5.38	11.33	0.70	0.70	33.52
Unplanned unavailable hours	0	0.90	0	0	0	0	81.80	49.10
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1903.80	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	26.18	0.58	2.22	0.20	14.60	22.90	6.30	1.18
Unplanned unavailable hours	0	0.90	0	0	0	0	18.80	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1524.50	2209.00	2064.00	2183.00	2208.00	2209.00	2160.00
Indicator value				0.4%	0.4%	0.4%	0.4%	0.7%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

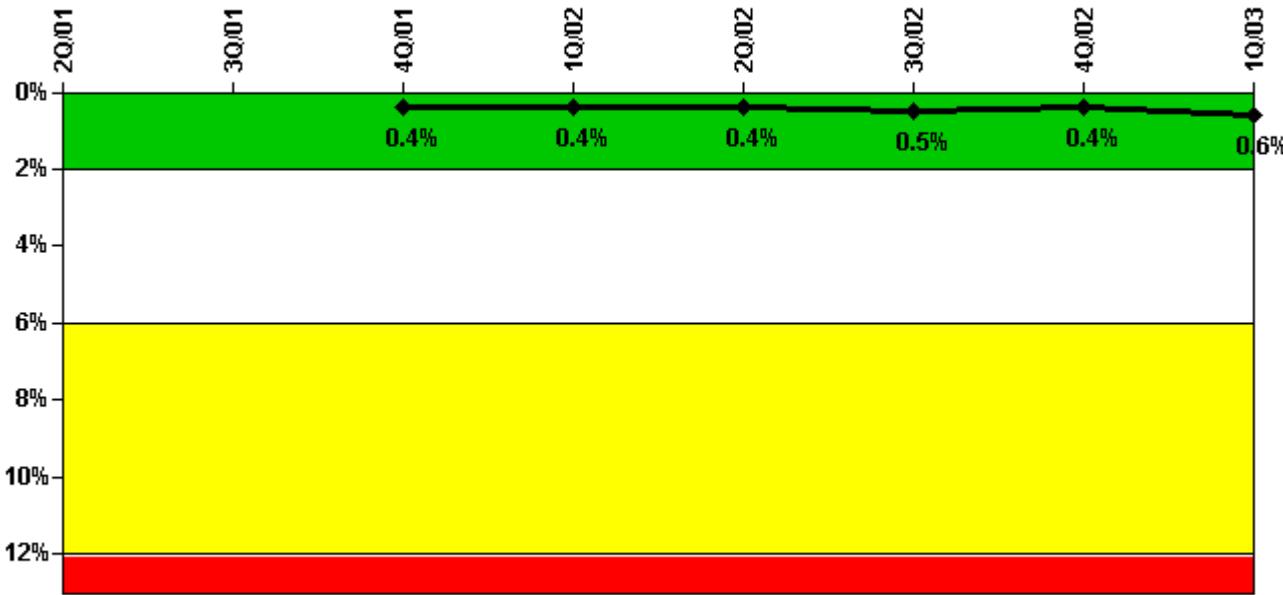
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0	0	15.45	11.00	0	10.03	0	1.65
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1524.47	2209.00	1389.76	2183.00	2118.98	2209.00	2160.00
Train 2								
Planned unavailable hours	0	20.92	0	1.87	0	11.82	0	1.35
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1501.97	2209.00	1329.94	2183.00	2208.00	2209.00	2130.15
Train 3								
Planned unavailable hours	0	0	0	0	0	0	23.15	8.57
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1524.47	2209.00	1389.76	2183.00	2118.98	2209.00	2130.15
Train 4								
Planned unavailable hours	5.57	0	12.48	0	5.95	0	0	1.23
Unplanned unavailable hours	0	0	0	0	0	18.77	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	2183.00	1501.97	2209.00	1329.94	2183.00	2118.98	2209.00	2130.15
Indicator value				0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

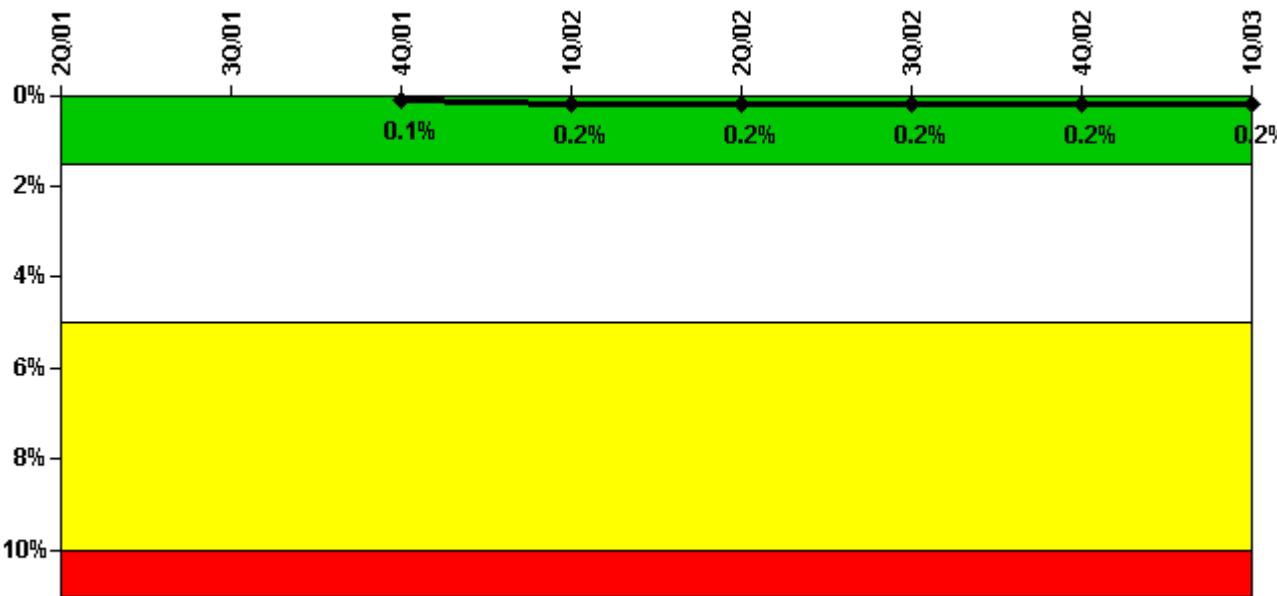
Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0	1.32	0	0	0	6.85	0	36.12
Unplanned unavailable hours	0	0	0	0	0	27.33	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1579.05	2209.00	438.92	2183.00	2118.98	2209.00	2132.20
Train 2								
Planned unavailable hours	1.00	1.85	0	2.52	9.23	9.05	0	29.38
Unplanned unavailable hours	0	0	0	0	6.08	0	0	59.48
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1579.05	2209.00	438.92	2183.00	2118.98	2209.00	2131.20
Train 3								

Planned unavailable hours	0	5.75	0	0	0	23.93	0	9.03
Unplanned unavailable hours	0	32.39	0	14.79	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1579.05	2209.00	438.92	2183.00	2118.98	2209.00	2131.20
Indicator value			0.4%	0.4%	0.4%	0.5%	0.4%	0.6%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

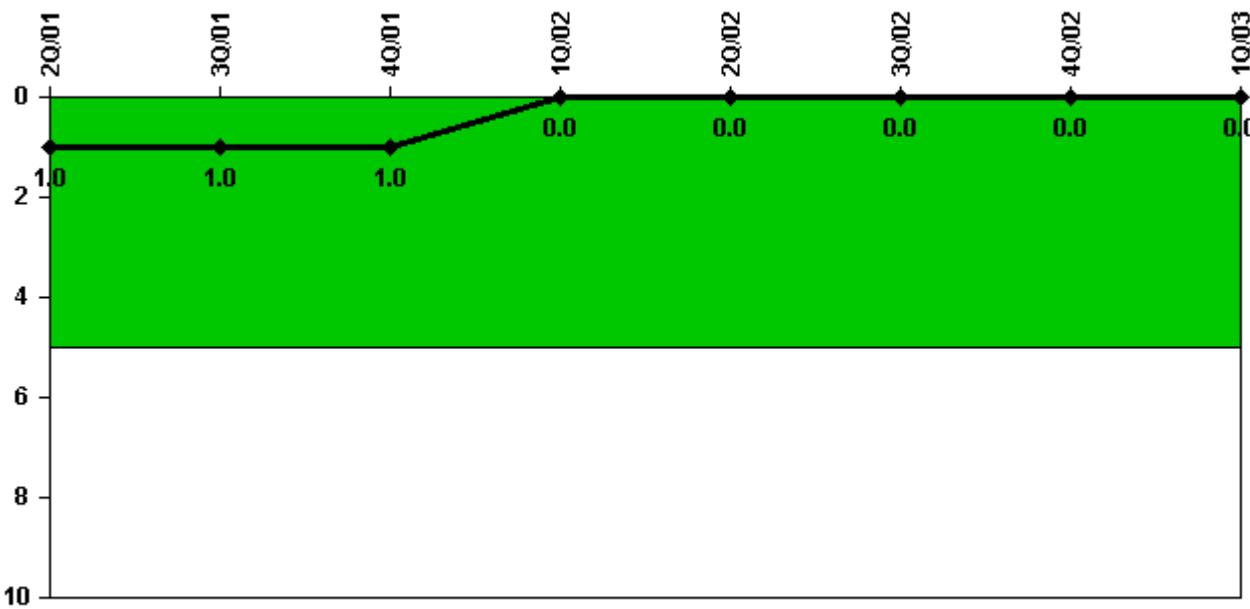
Notes

Safety System Unavailability, Residual Heat Removal System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0	11.78	0	15.62	0	8.77	8.05	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1857.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	0	0	0	7.58	0	10.20	6.03	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0

Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1857.00	2183.00	2208.00	2209.00	2160.00
Indicator value			0.1%	0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)



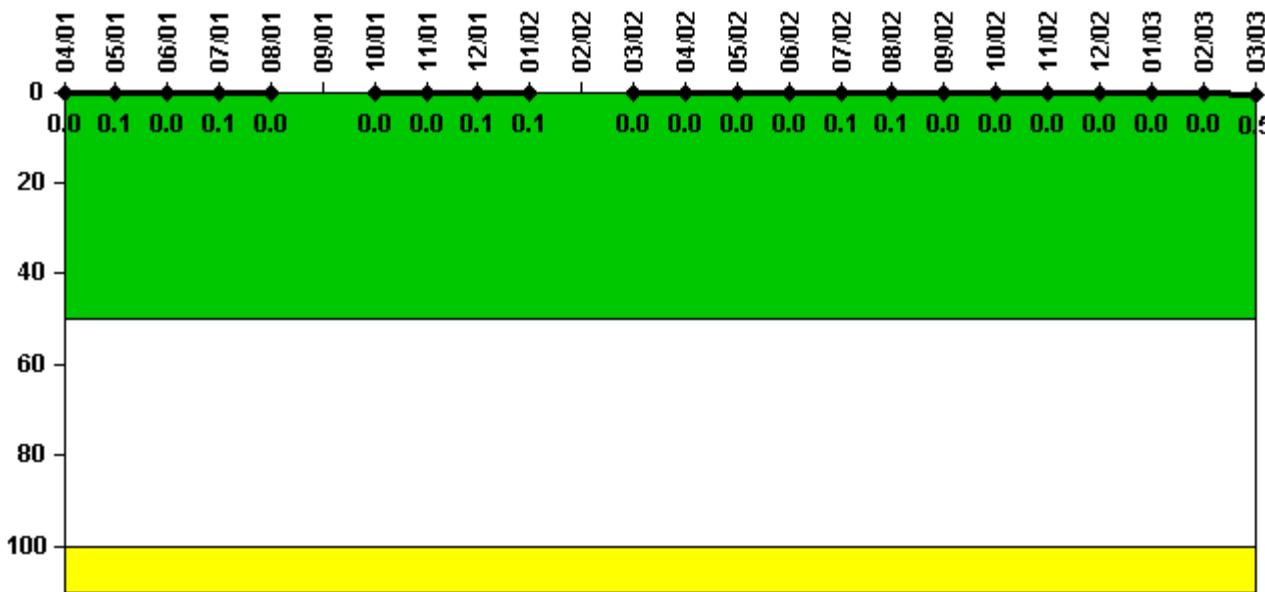
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	1	1	1	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

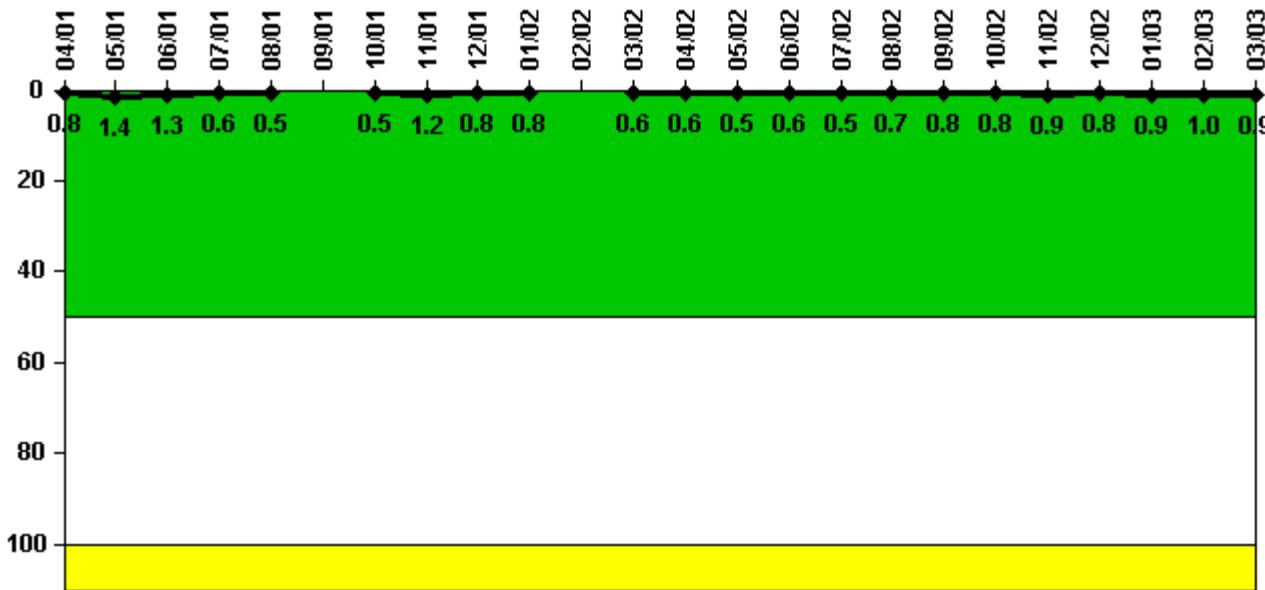
Notes

Reactor Coolant System Activity	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum activity	0.000407	0.000508	0.000452	0.000677	0.000474	N/A	0.000480	0.000497	0.000515	0.000509	N/A	0.000212
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0.1	0	0.1	0	N/A	0	0	0.1	0.1	N/A	0

Reactor Coolant System Activity	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum activity	0.000242	0.000214	0.000238	0.001100	0.000641	0.000316	0.000359	0.000324	0.000313	0.000313	0.000368	0.004970
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0.1	0.1	0	0	0	0	0	0	0.5

Licensee Comments: none

Reactor Coolant System Leakage

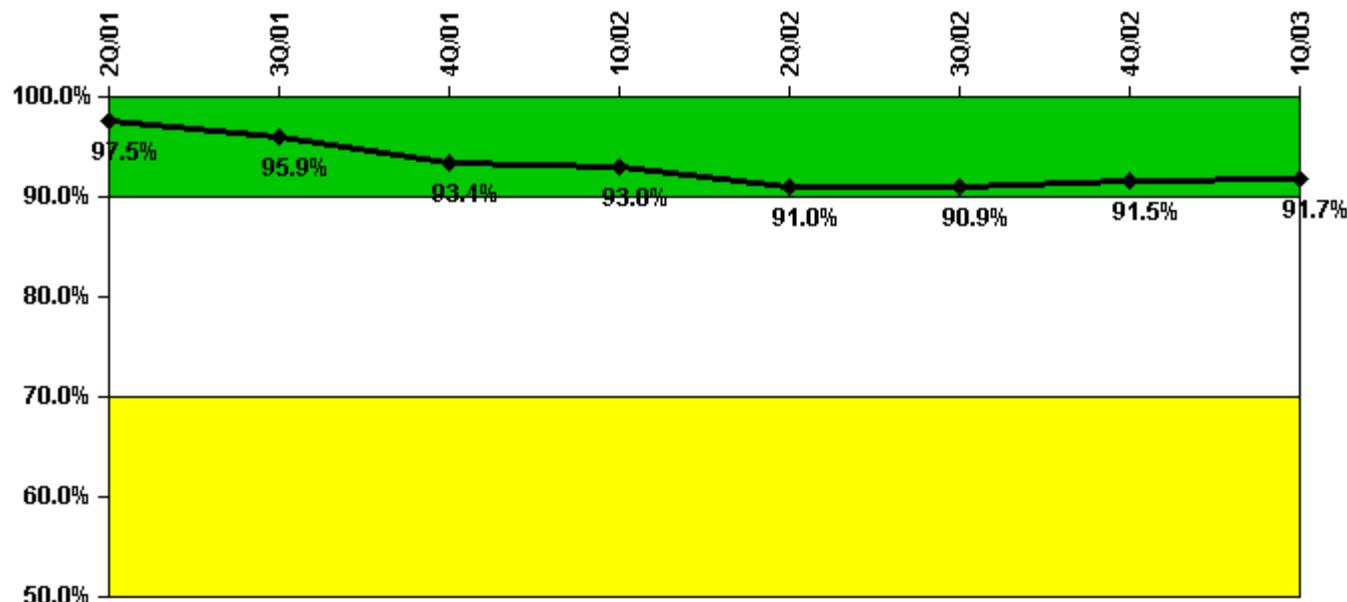


Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum leakage	0.090	0.150	0.140	0.070	0.050	N/A	0.050	0.130	0.090	0.085	N/A	0.068
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.8	1.4	1.3	0.6	0.5	N/A	0.5	1.2	0.8	0.8	N/A	0.6
Reactor Coolant System Leakage	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum leakage	0.071	0.057	0.064	0.058	0.080	0.086	0.090	0.100	0.090	0.096	0.110	0.097
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.6	0.5	0.6	0.5	0.7	0.8	0.8	0.9	0.8	0.9	1.0	0.9

Licensee Comments: none

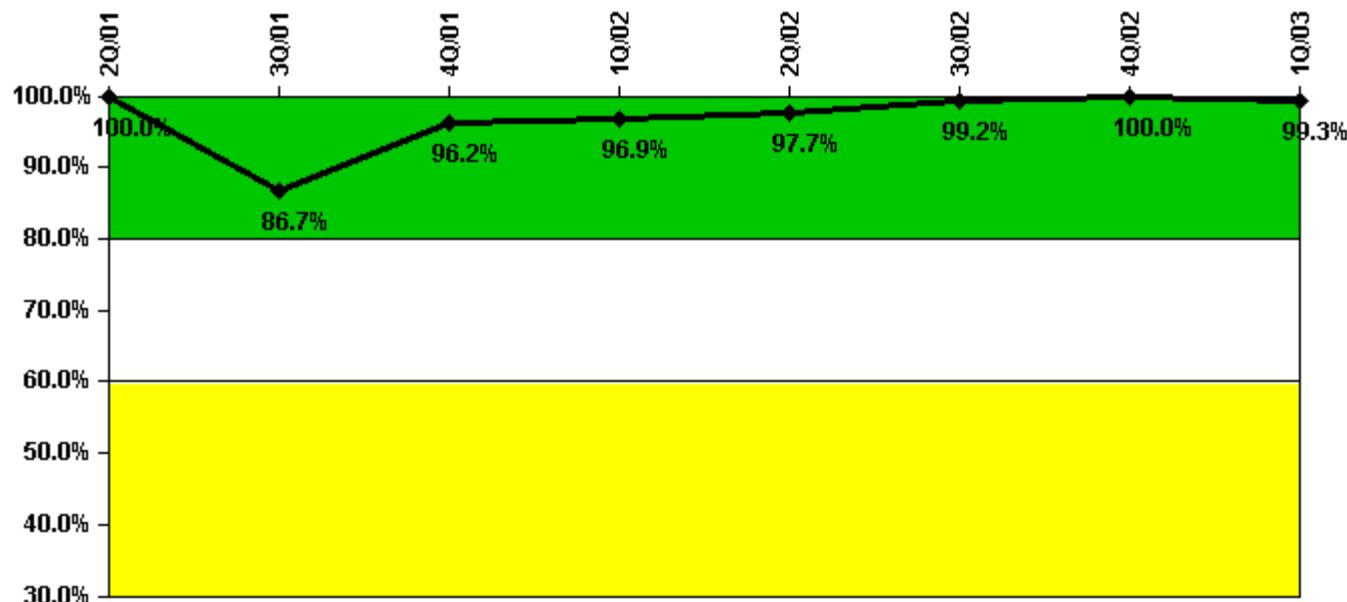
Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful opportunities	35.0	69.0	90.0	43.0	24.0	140.0	149.0	92.0
Total opportunities	36.0	76.0	104.0	46.0	34.0	150.0	159.0	95.0
Indicator value	97.5%	95.9%	93.4%	93.0%	91.0%	90.9%	91.5%	91.7%

Licensee Comments: none

ERO Drill Participation

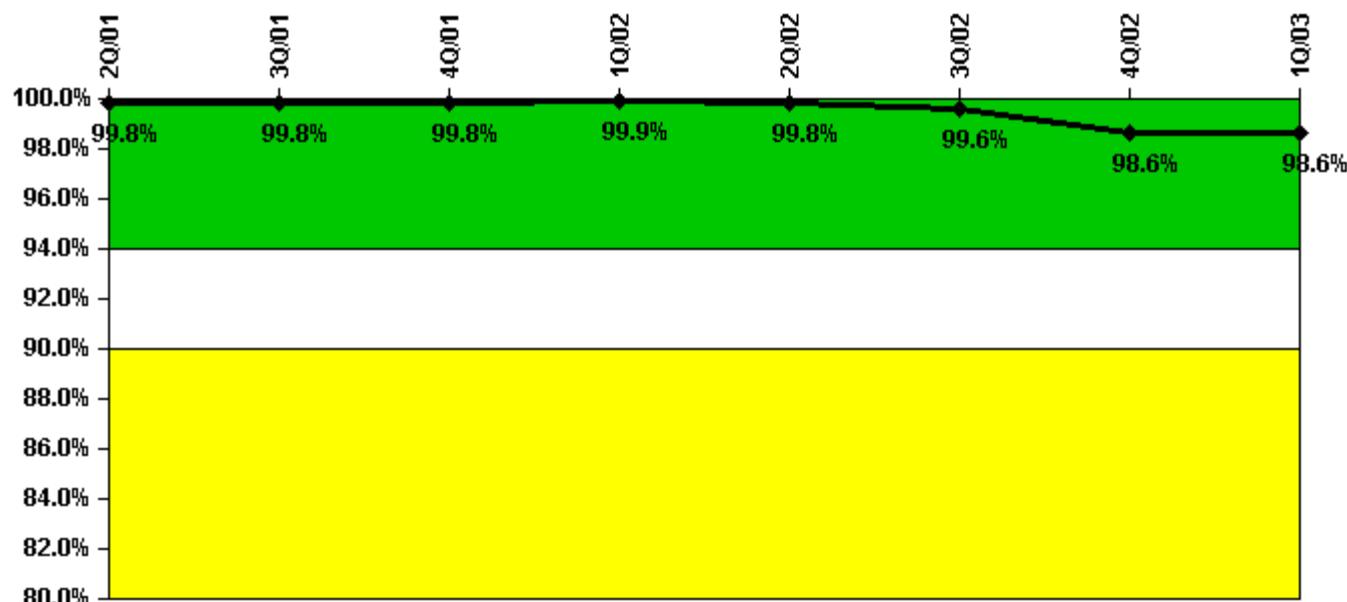
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Participating Key personnel	55.0	111.0	125.0	127.0	125.0	130.0	131.0	151.0
Total Key personnel	55.0	128.0	130.0	131.0	128.0	131.0	131.0	152.0
Indicator value	100.0%	86.7%	96.2%	96.9%	97.7%	99.2%	100.0%	99.3%

Licensee Comments: none

Alert & Notification System



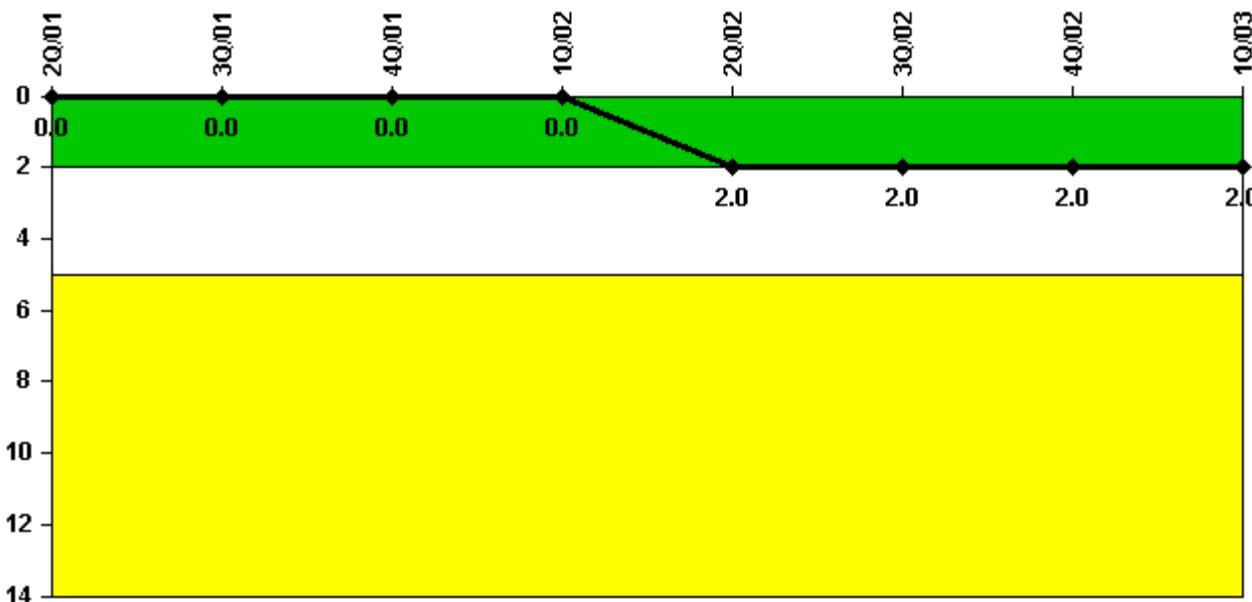
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful siren-tests	210	210	209	210	209	209	200	210
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	99.8%	99.8%	99.8%	99.9%	99.8%	99.6%	98.6%	98.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



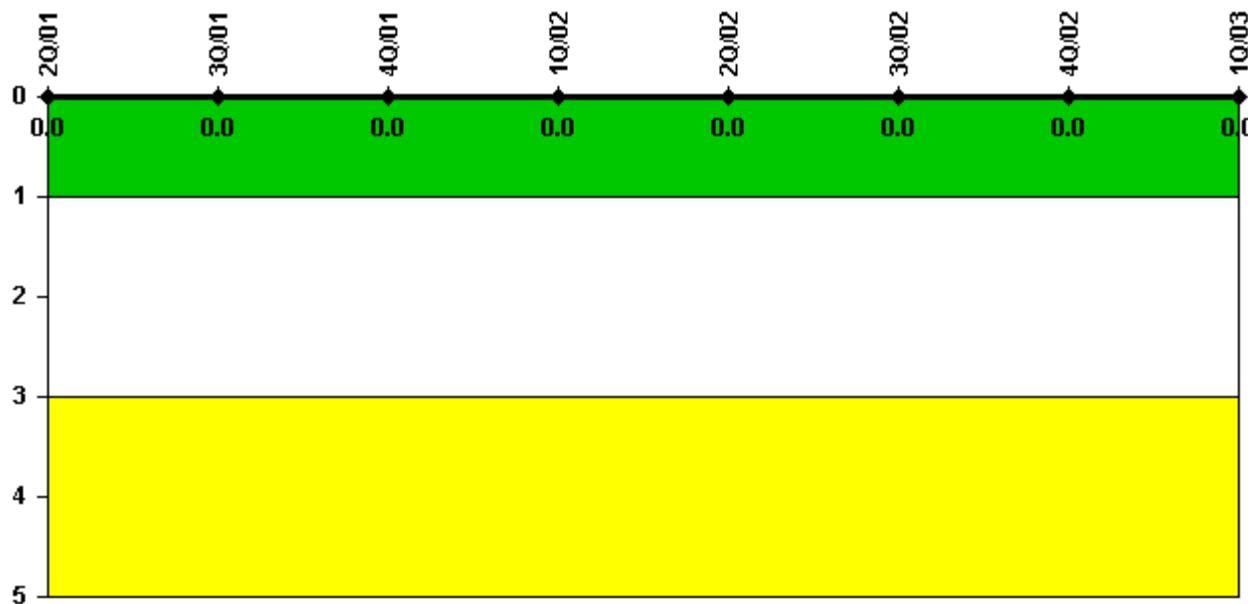
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
High radiation area occurrences	0	0	0	0	2	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	2	2	2	2

Licensee Comments:

1Q/03: CNP has submitted an FAQ to seek clarification of an occurrence that had been previously counted against this indicator in 2Q2002.

RETS/ODCM Radiological Effluent

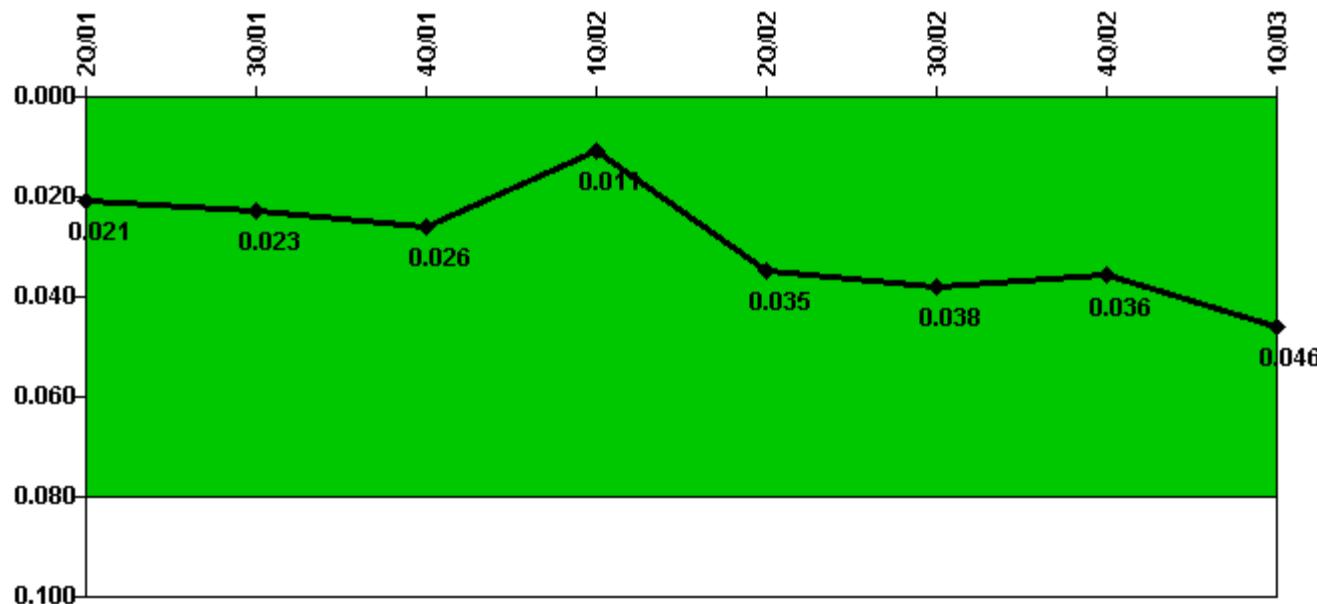
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



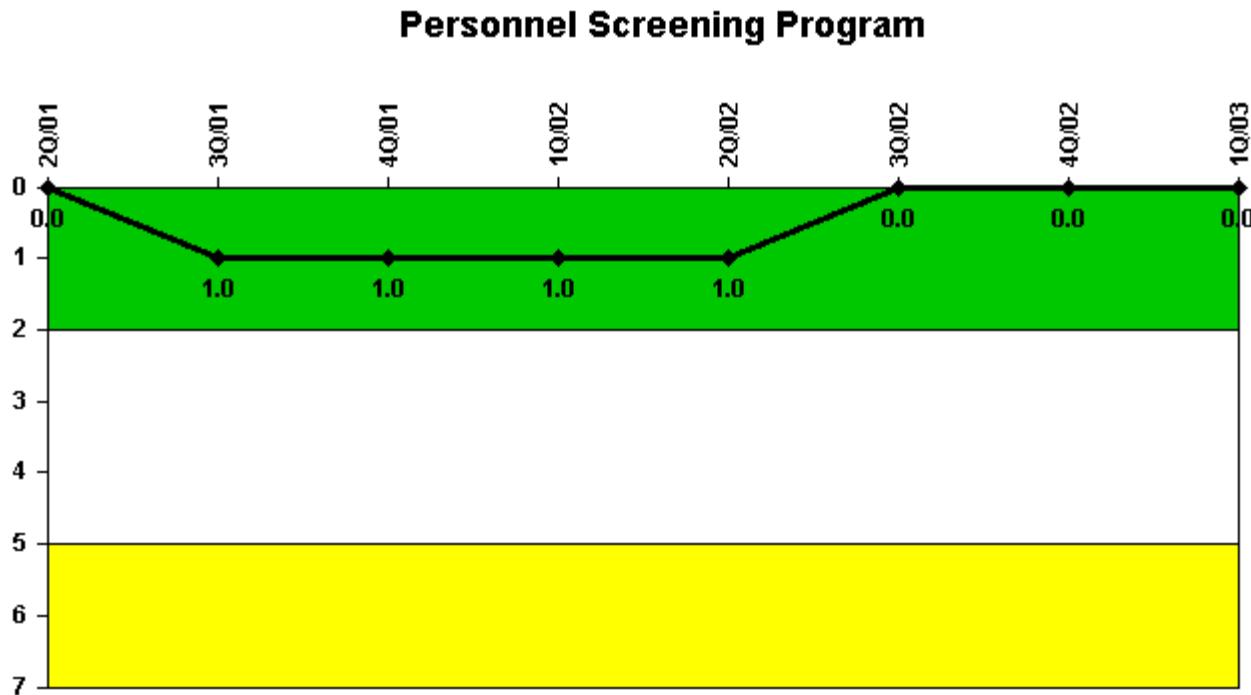
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
IDS compensatory hours	97.80	49.50	103.70	28.20	680.50	111.70	52.10	263.40
CCTV compensatory hours	0.3	0	0	0	0	0	4.4	16.2
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.021	0.023	0.026	0.011	0.035	0.038	0.036	0.046

Licensee Comments:

1Q/03: In accordance With NEI 99-02, compensatory hours associated with scheduled equipment upgrades that are being performed and those compensatory hours for configuration issues associated with the equipment upgrades are excluded.

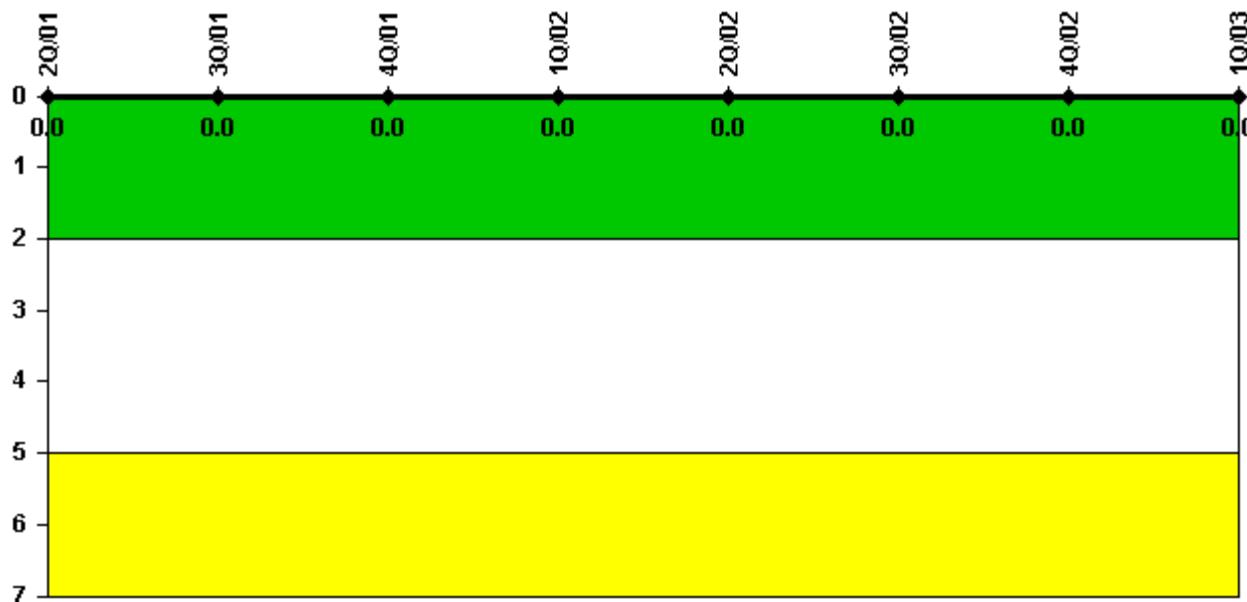


Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Program failures	0	1	0	0	0	0	0	0
Indicator value	0	1	1	1	1	0	0	0

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Program Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none



[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

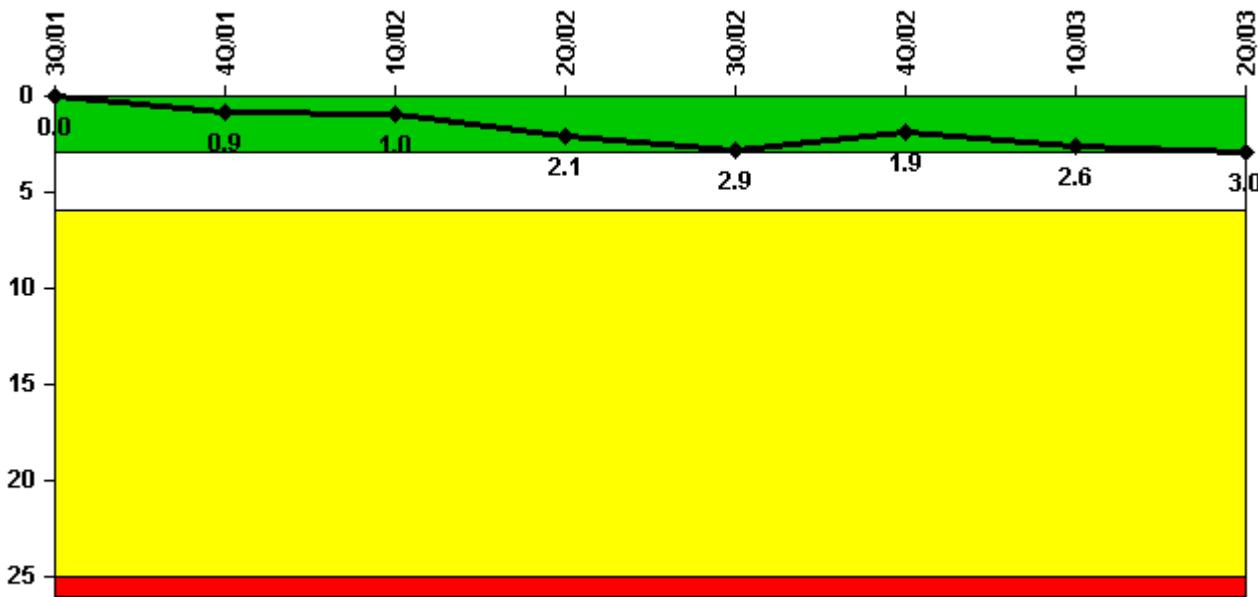
Last Modified: April 22, 2003

D.C. Cook 2

2Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



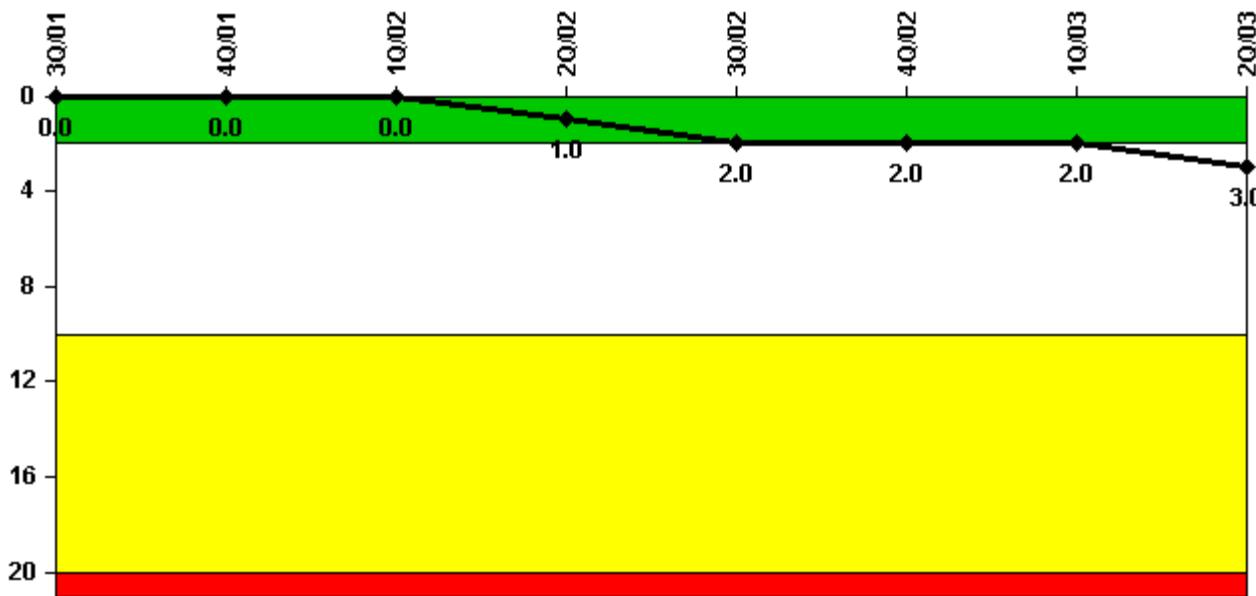
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned scrams	0	1.0	0	1.0	1.0	0	1.0	1.0
Critical hours	1454.0	2008.0	1261.5	1965.5	2027.5	2209.0	1884.6	824.0
Indicator value	0	0.9	1.0	2.1	2.9	1.9	2.6	3.0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

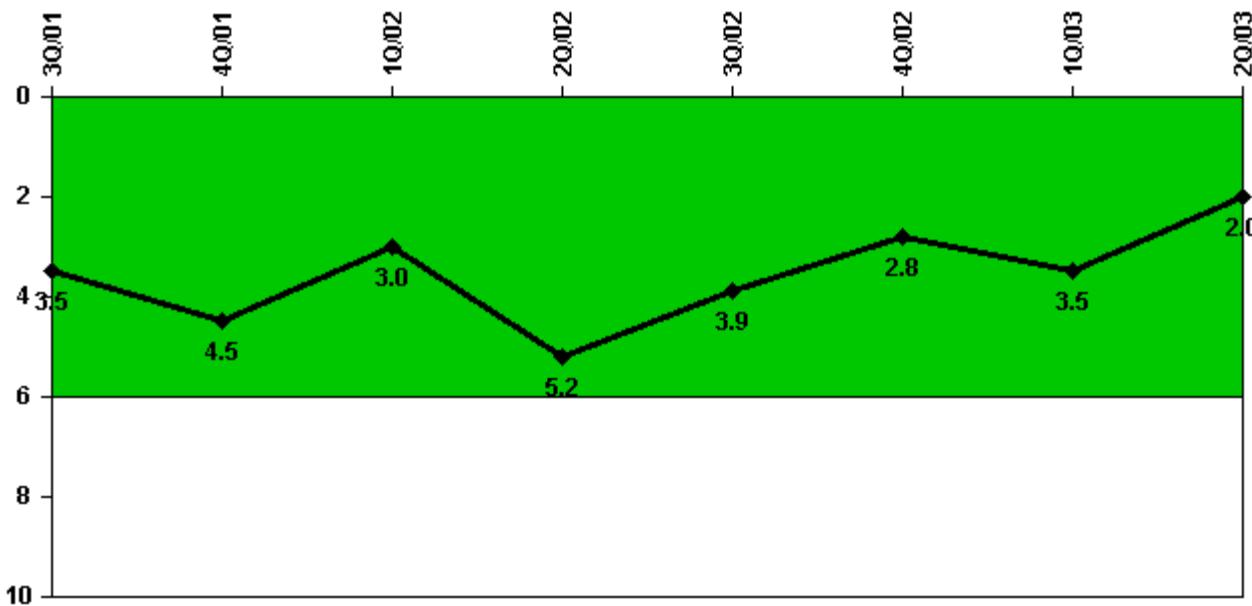
Scrams with Loss of Normal Heat Removal	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Scrams	0	0	0	1.0	1.0	0	0	1.0
Indicator value	0	0	0	1.0	2.0	2.0	2.0	3.0

Licensee Comments:

2Q/03: One frequently asked question (FAQ) that was previously submitted was dispositioned to count against this performance indicator as a scram with loss of normal heat removal in the 3rd quarter of 2002. One FAQ that was previously submitted is still open. Disposition of this FAQ is required to evaluate two reactor scrams.

3Q/02: Two frequently asked questions have been submitted to address two reactor scrams for which the NRC resident inspection believes should be counted under this reporting criteria.

Unplanned Power Changes per 7000 Critical Hrs



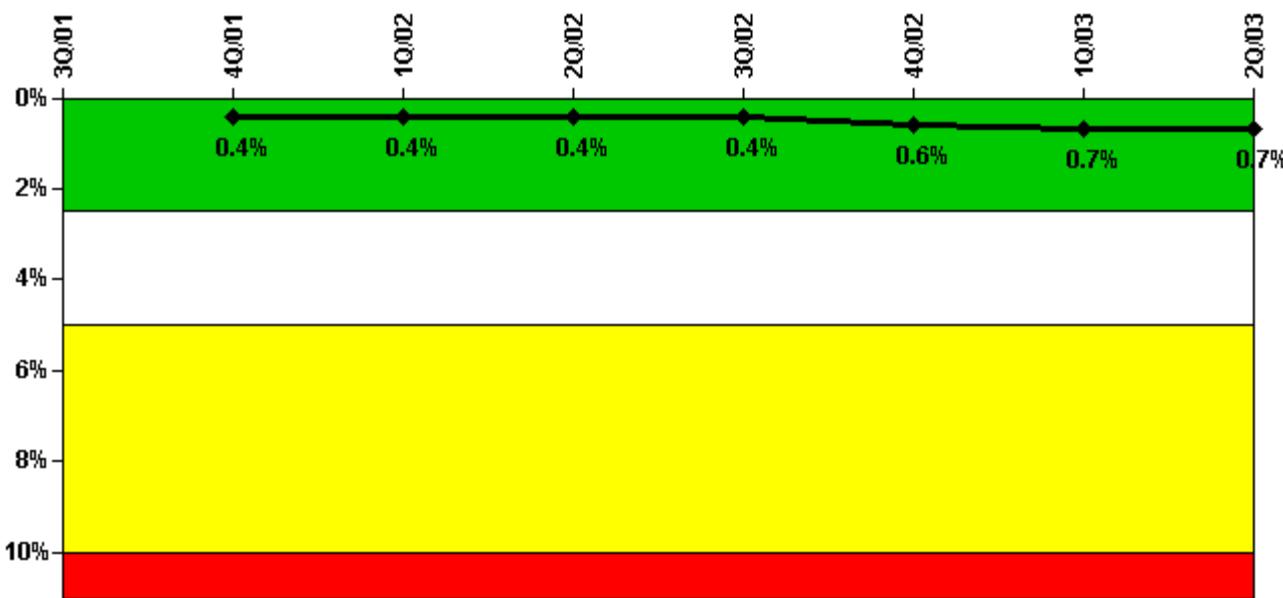
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned power changes	2.0	1.0	0	2.0	1.0	0	1.0	0
Critical hours	1454.0	2008.0	1261.5	1965.5	2027.5	2209.0	1884.6	824.0
Indicator value	3.5	4.5	3.0	5.2	3.9	2.8	3.5	2.0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



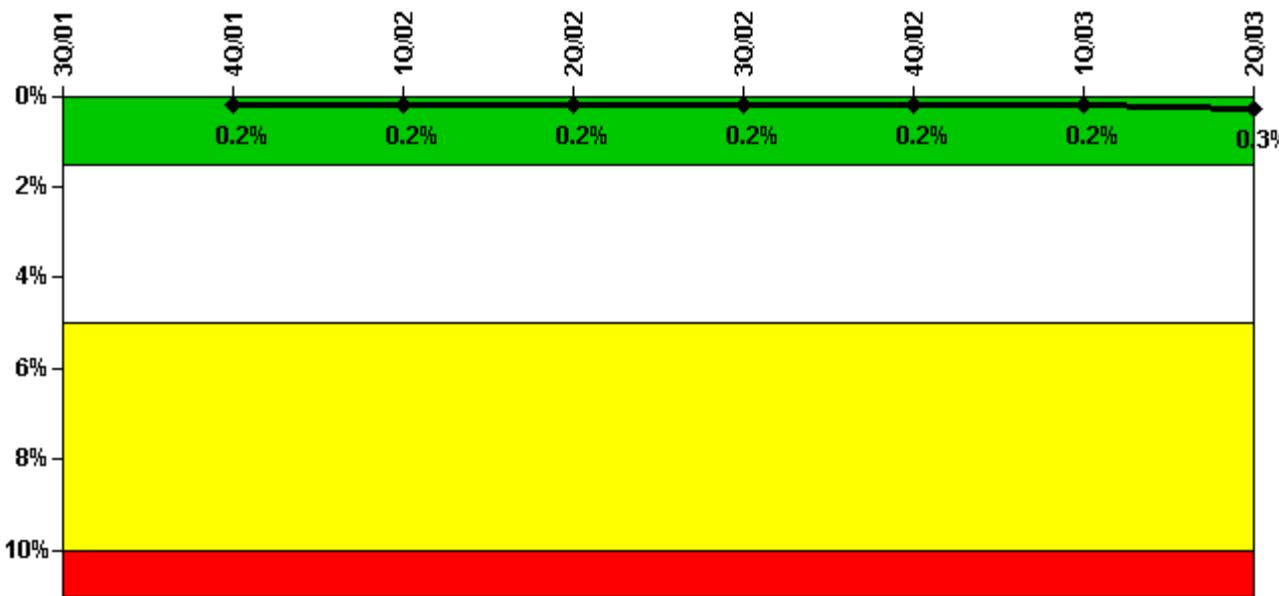
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	0.30	1.20	5.38	11.33	0.70	0.70	33.52	0.32
Unplanned unavailable hours	0.90	0	0	0	0	81.80	49.10	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1903.80	2183.00	2208.00	2209.00	2160.00	2185.00
Train 2								
Planned unavailable hours	0.58	2.22	0.20	14.60	22.90	6.30	1.18	0.65
Unplanned unavailable hours	0.90	0	0	0	0	18.80	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1524.50	2209.00	2064.00	2183.00	2208.00	2209.00	2160.00	1079.77
Indicator value			0.4%	0.4%	0.4%	0.4%	0.6%	0.7%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

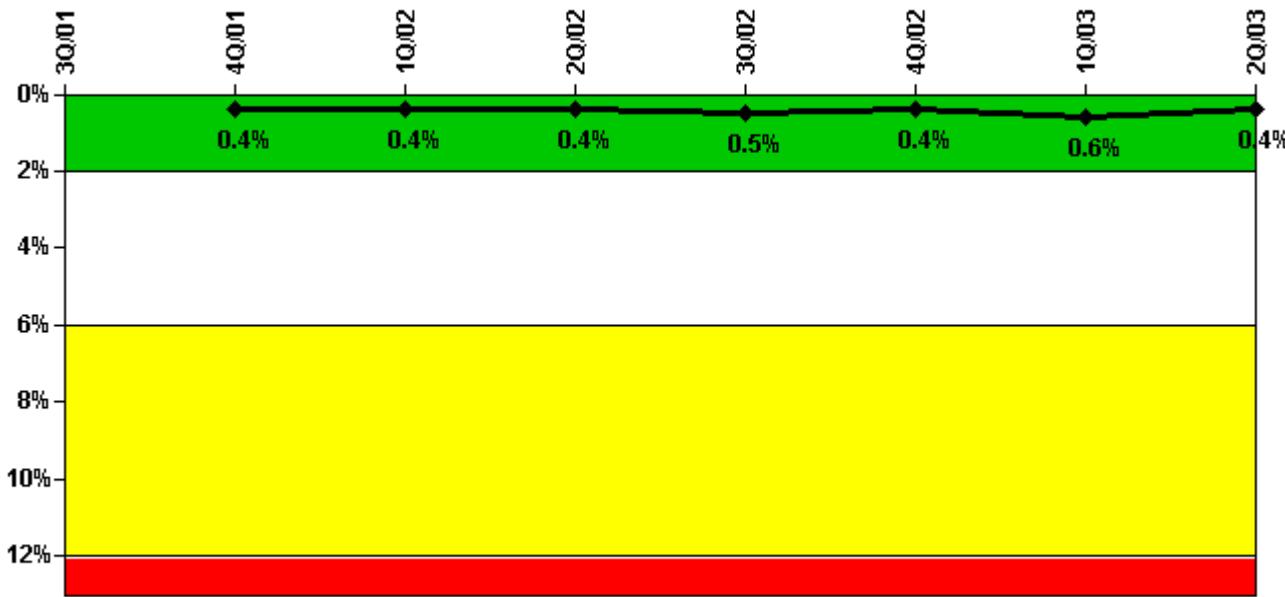
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	0	15.45	11.00	0	10.03	0	1.65	3.33
Unplanned unavailable hours	0	0	0	0	0	0	0	64.58
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1524.47	2209.00	1389.76	2183.00	2118.98	2209.00	2160.00	927.64
Train 2								
Planned unavailable hours	20.92	0	1.87	0	11.82	0	1.35	10.97
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1501.97	2209.00	1329.94	2183.00	2208.00	2209.00	2130.15	1007.37
Train 3								
Planned unavailable hours	0	0	0	0	0	23.15	8.57	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1524.47	2209.00	1389.76	2183.00	2118.98	2209.00	2130.15	912.07
Train 4								
Planned unavailable hours	0	12.48	0	5.95	0	0	1.23	0
Unplanned unavailable hours	0	0	0	0	18.77	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	1501.97	2209.00	1329.94	2183.00	2118.98	2209.00	2130.15	912.07
Indicator value					0.2%	0.2%	0.2%	0.2%
					0.2%	0.2%	0.2%	0.3%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

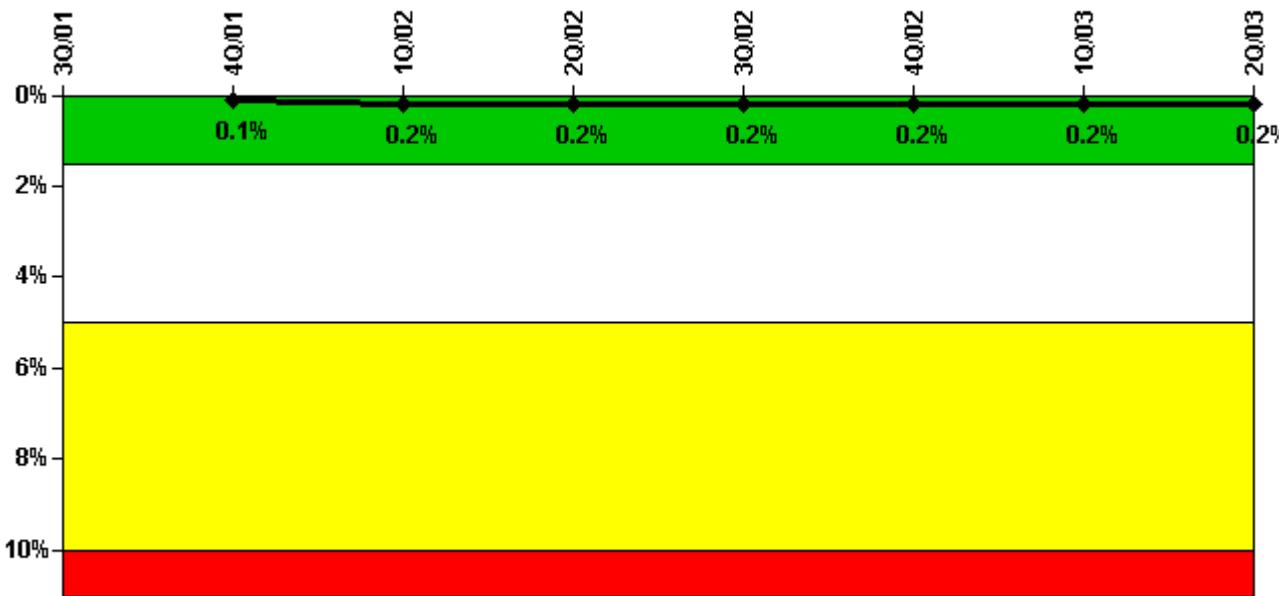
Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	1.32	0	0	0	6.85	0	36.12	0
Unplanned unavailable hours	0	0	0	0	27.33	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1579.05	2209.00	438.92	2183.00	2118.98	2209.00	2132.20	912.07
Train 2								
Planned unavailable hours	1.85	0	2.52	9.23	9.05	0	29.38	0
Unplanned unavailable hours	0	0	0	6.08	0	0	59.48	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1579.05	2209.00	438.92	2183.00	2118.98	2209.00	2131.20	912.07
Train 3								

Planned unavailable hours	5.75	0	0	0	23.93	0	9.03	0
Unplanned unavailable hours	32.39	0	14.79	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1579.05	2209.00	438.92	2183.00	2118.98	2209.00	2131.20	912.07
Indicator value		0.4%	0.4%	0.4%	0.5%	0.4%	0.6%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

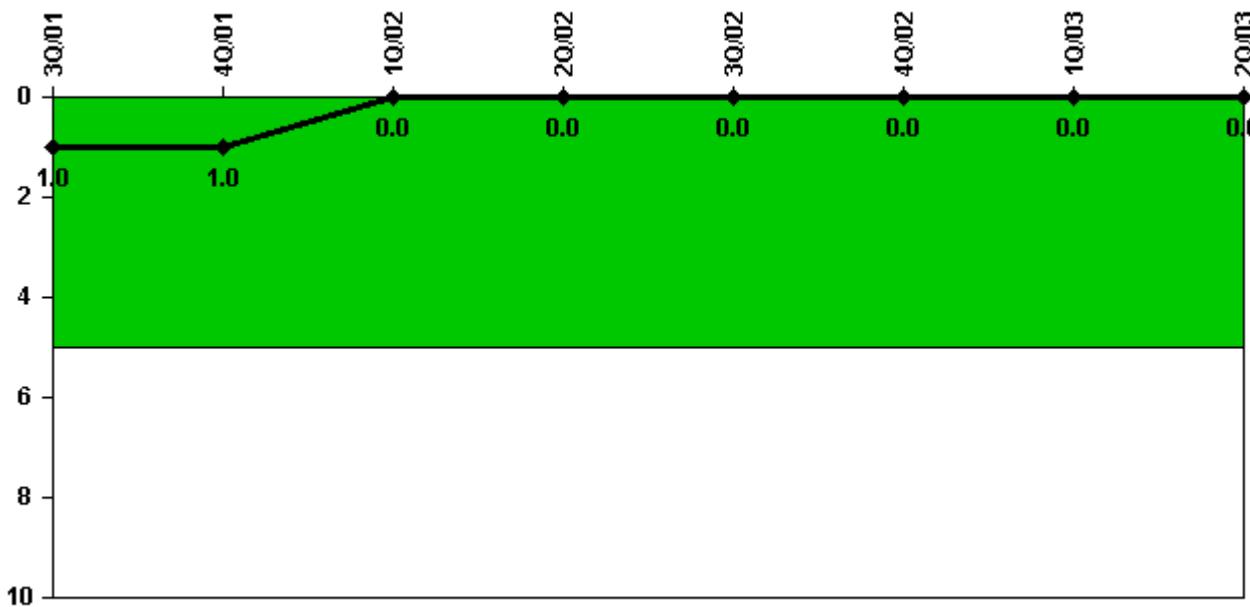
Notes

Safety System Unavailability, Residual Heat Removal System	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	11.78	0	15.62	0	8.77	8.05	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1857.00	2183.00	2208.00	2209.00	2160.00	1838.30
Train 2								
Planned unavailable hours	0	0	7.58	0	10.20	6.03	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0

Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1857.00	2183.00	2208.00	2209.00	2160.00	1838.30
Indicator value		0.1%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)



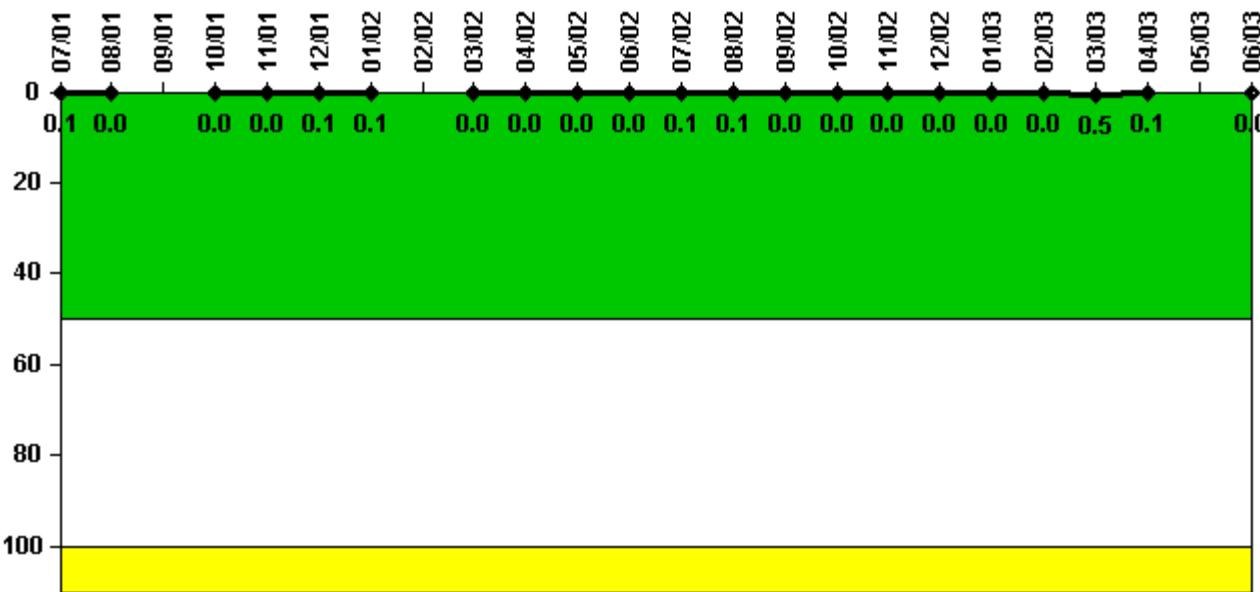
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	1	1	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum activity	0.000677	0.000474	N/A	0.000480	0.000497	0.000515	0.000509	N/A	0.000212	0.000242	0.000214	0.000238
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0	N/A	0	0	0.1	0.1	N/A	0	0	0	0

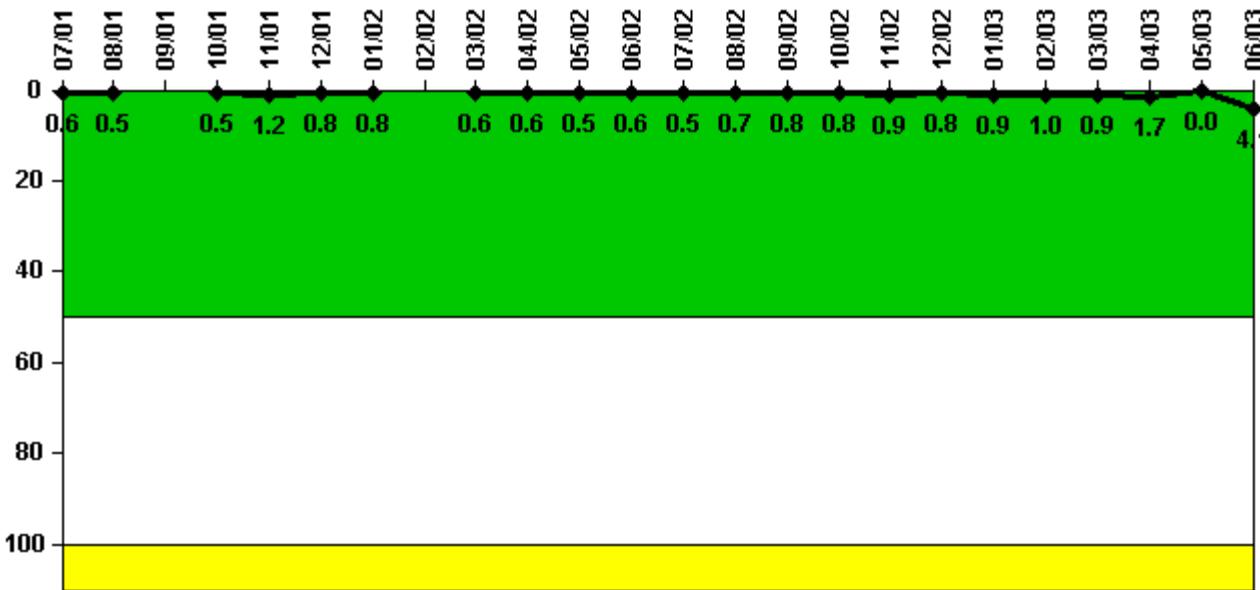
Reactor Coolant System Activity	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum activity	0.001100	0.000641	0.000316	0.000359	0.000324	0.000313	0.000313	0.000368	0.004970	0.001070	N/A	0.000159
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0	0	0	0	0	0	0.5	0.1	N/A	0

Licensee Comments:

6/03: Unit 2 was shut down for the month of May, 2003.

6/03: Unit 2 was shut down for the month of May, 2003.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

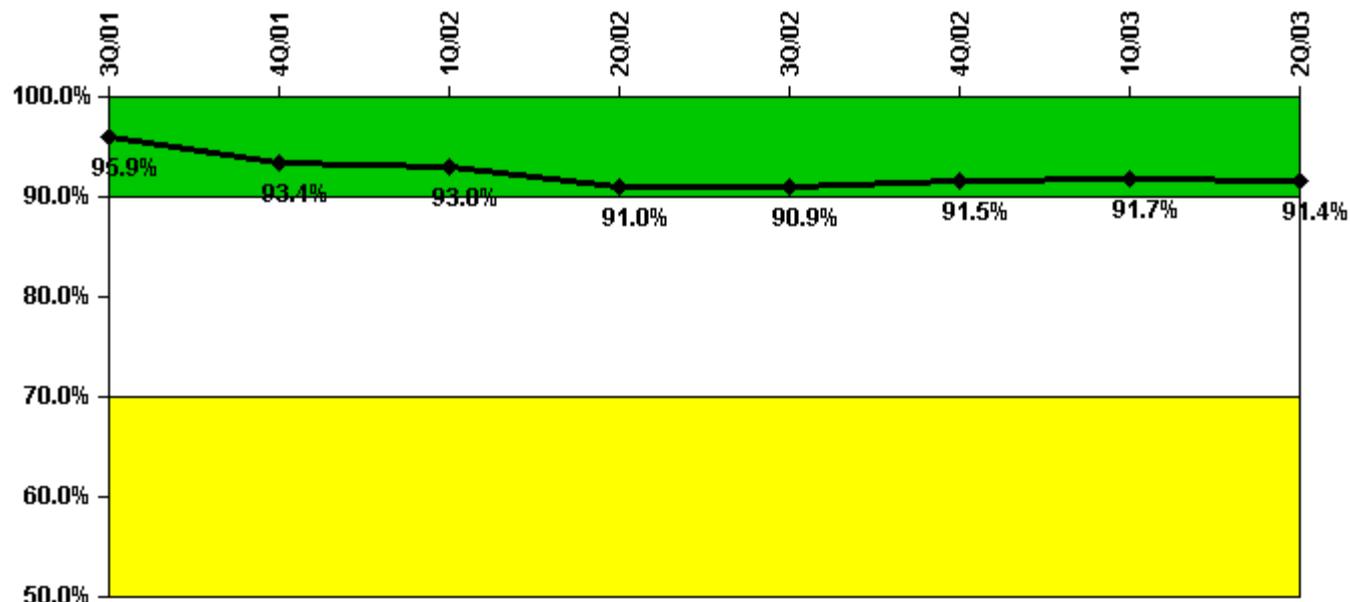
Notes

Reactor Coolant System Leakage	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum leakage	0.070	0.050	N/A	0.050	0.130	0.090	0.085	N/A	0.068	0.071	0.057	0.064
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.6	0.5	N/A	0.5	1.2	0.8	0.8	N/A	0.6	0.6	0.5	0.6

Reactor Coolant System Leakage	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum leakage	0.058	0.080	0.086	0.090	0.100	0.090	0.096	0.110	0.097	0.184	0	0.450
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.5	0.7	0.8	0.8	0.9	0.8	0.9	1.0	0.9	1.7	0	4.1

Licensee Comments: none

Drill/Exercise Performance



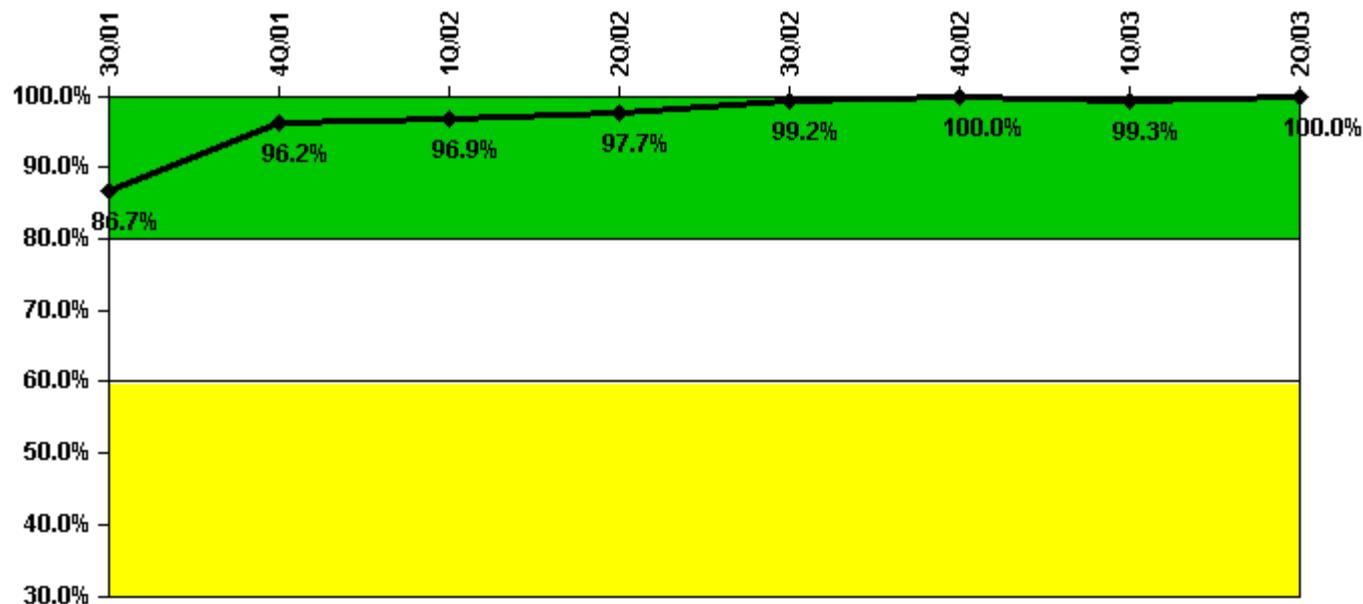
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Successful opportunities	69.0	90.0	43.0	24.0	140.0	149.0	92.0	31.0
Total opportunities	76.0	104.0	46.0	34.0	150.0	159.0	95.0	34.0
Indicator value	95.9%	93.4%	93.0%	91.0%	90.9%	91.5%	91.7%	91.4%

Licensee Comments: none

ERO Drill Participation



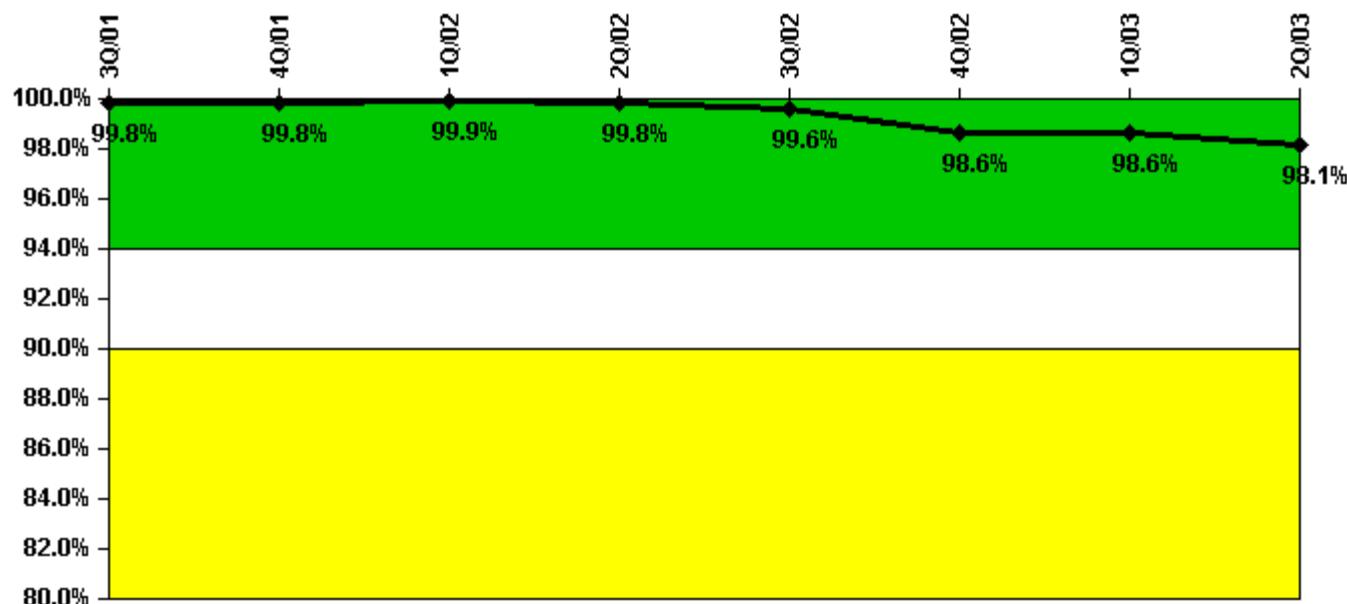
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Participating Key personnel	111.0	125.0	127.0	125.0	130.0	131.0	151.0	144.0
Total Key personnel	128.0	130.0	131.0	128.0	131.0	131.0	152.0	144.0
Indicator value	86.7%	96.2%	96.9%	97.7%	99.2%	100.0%	99.3%	100.0%

Licensee Comments: none

Alert & Notification System



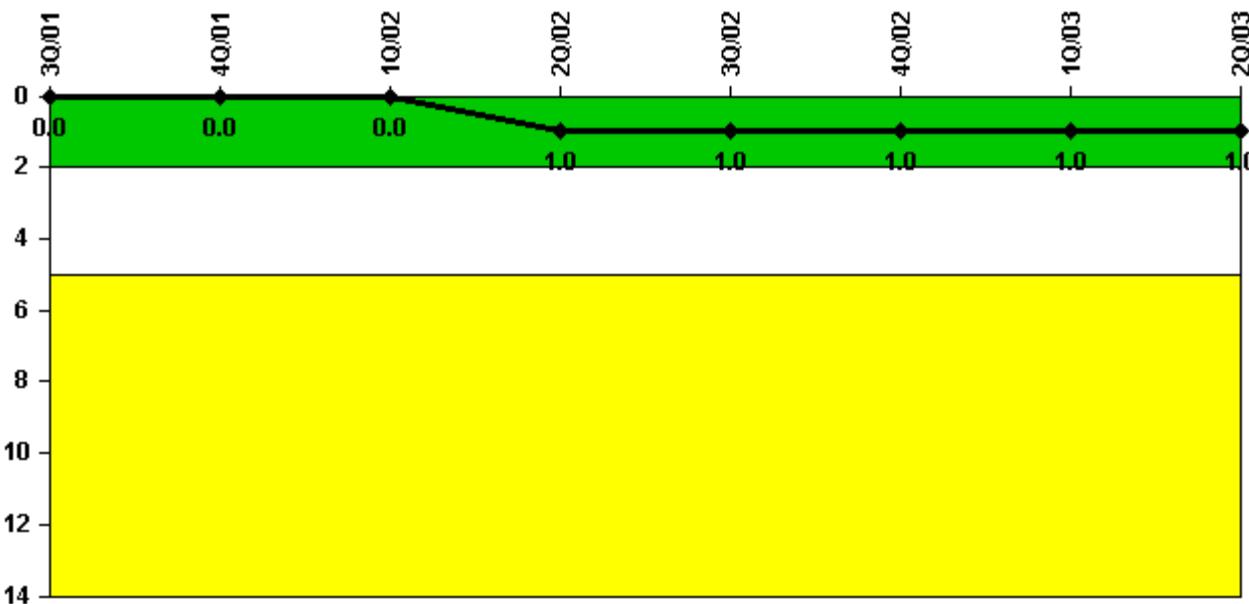
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Successful siren-tests	210	209	210	209	209	200	210	205
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	99.8%	99.8%	99.9%	99.8%	99.6%	98.6%	98.6%	98.1%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

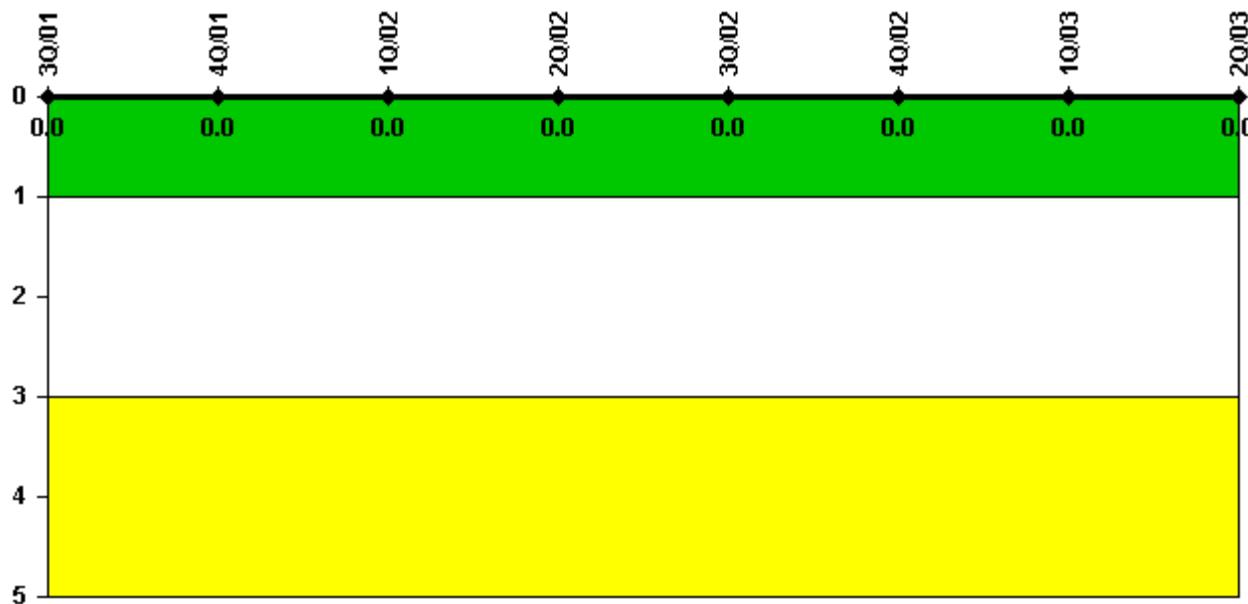
Notes

Occupational Exposure Control Effectiveness	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
High radiation area occurrences	0	0	0	1	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	1
Indicator value	0	0	0	1	1	1	1	1

Licensee Comments:

2Q/03: A Frequently Asked Question (FAQ) was previously submitted to seek clarification of an occurrence that had been previously counted against this indicator in the 2nd quarter of 2002. The FAQ was dispositioned and concluded that the occurrence does not count against this indicator.

2Q/02: Two technical specification high radiation area occurrences are reported for the second quarter 2002. One occurrence was an unauthorized entry into an area posted as a Locked High Radiation Area. The second occurrence was the discovery of an area posted as a Radiation Area that had general dose rates of 3 rem per hour at 30 centimeters following a reactor coolant system clean-up evolution. A review of dose records shows no unintended dose was received by plant personnel as a result of the two occurrences. Immediate actions were taken by plant radiation protection personnel to properly secure the areas.

RETS/ODCM Radiological Effluent

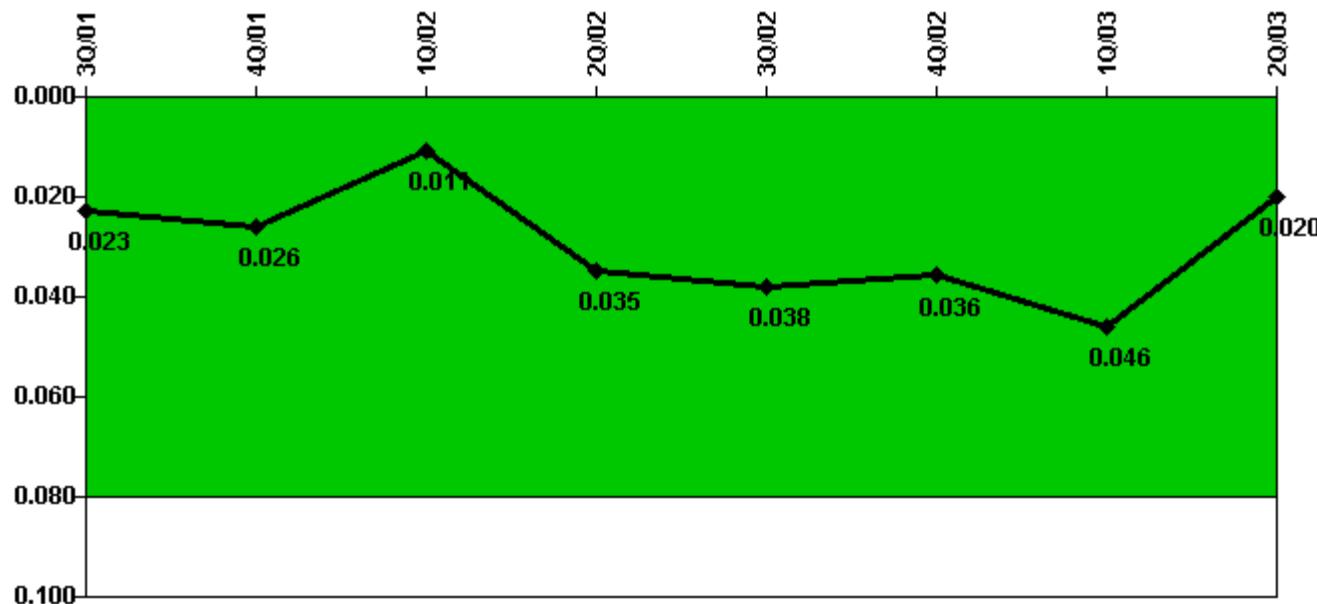
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



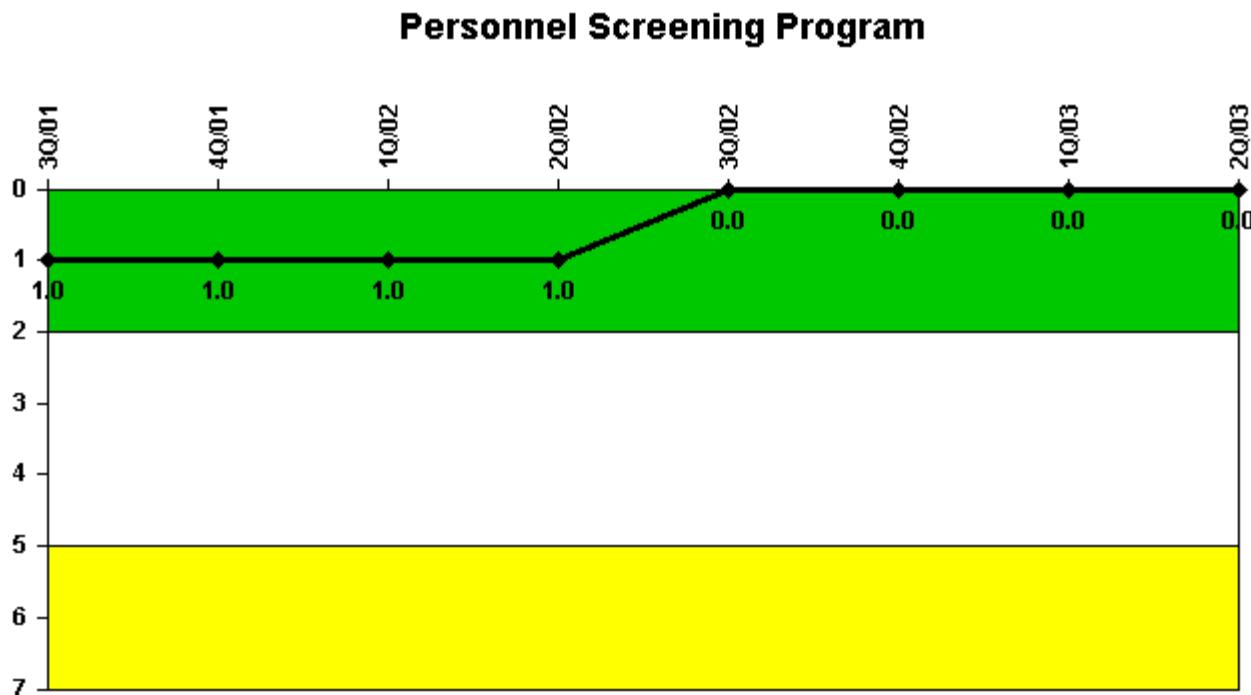
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
IDS compensatory hours	49.50	103.70	28.20	680.50	111.70	52.10	263.40	25.70
CCTV compensatory hours	0	0	0	0	0	4.4	16.2	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.023	0.026	0.011	0.035	0.038	0.036	0.046	0.020

Licensee Comments:

2Q/03: In accordance with NEI 99-02, compensatory hours associated with scheduled equipment upgrades that are being performed and those compensatory hours for configuration issues associated with the equipment upgrades are excluded.

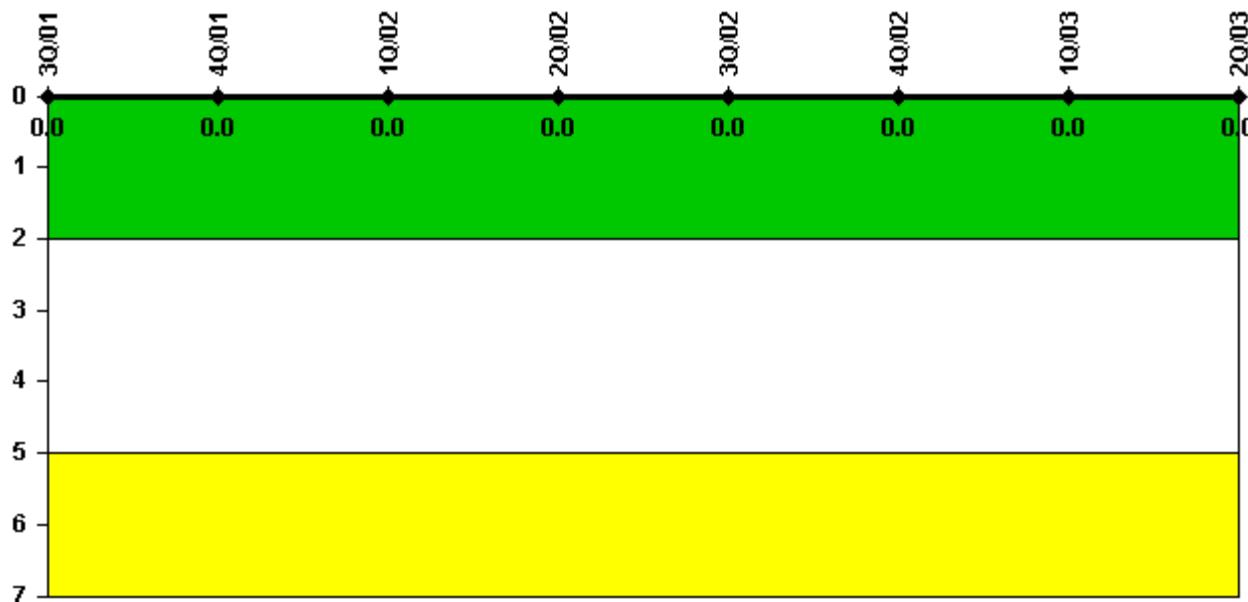


Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Program failures	1	0	0	0	0	0	0	0
Indicator value	1	1	1	1	0	0	0	0

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Program Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

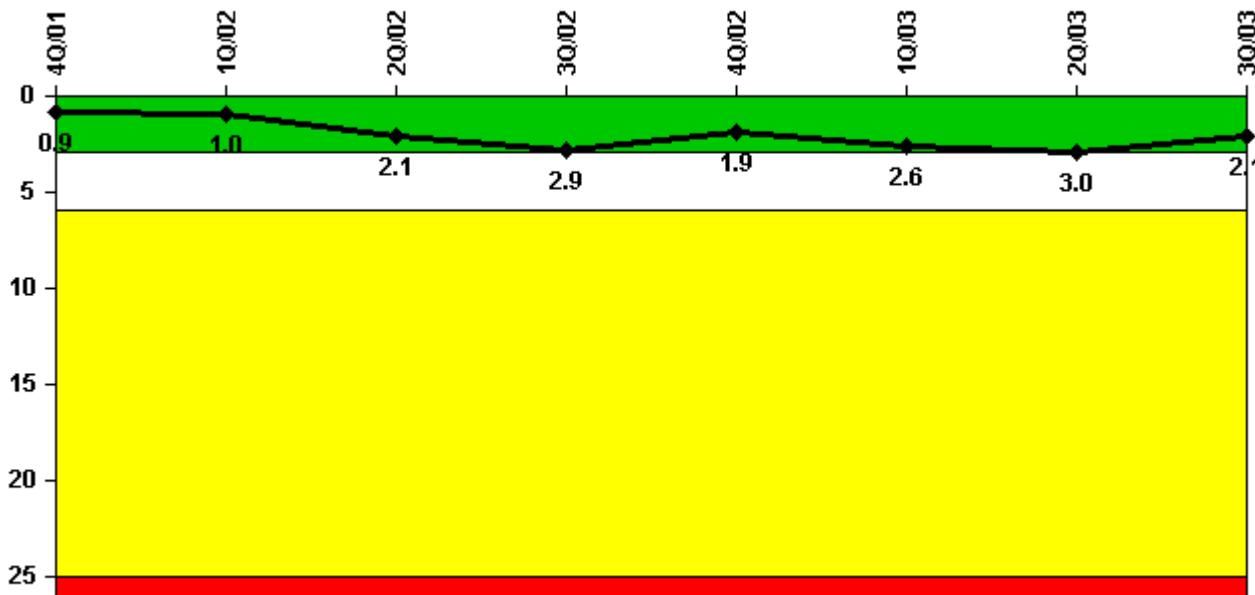


[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

Last Modified: July 23, 2003

D.C. Cook 2**3Q/2003 Performance Indicators**

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

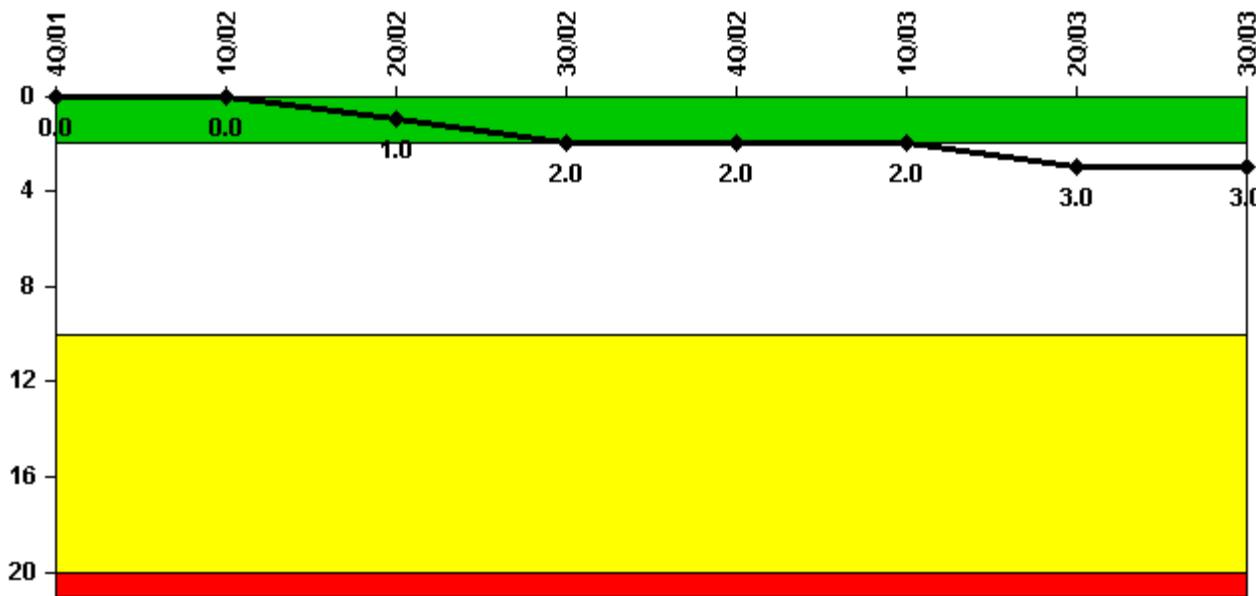
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned scrams	1.0	0	1.0	1.0	0	1.0	1.0	0
Critical hours	2008.0	1261.5	1965.5	2027.5	2209.0	1884.6	824.0	1832.1
Indicator value	0.9	1.0	2.1	2.9	1.9	2.6	3.0	2.1

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

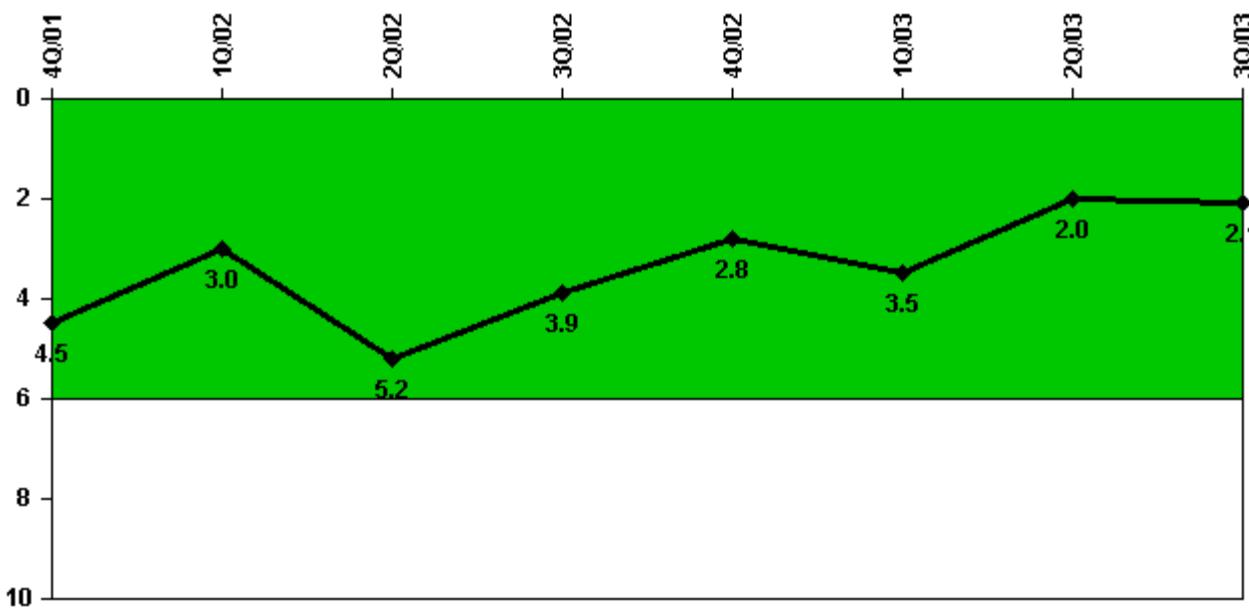
Notes

Scrams with Loss of Normal Heat Removal	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Scrams	0	0	1.0	1.0	0	0	1.0	0
Indicator value	0	0	1.0	2.0	2.0	2.0	3.0	3.0

Licensee Comments:

3Q/03: One frequently asked question (FAQ) that was previously submitted was dispositioned to count against this performance indicator as a scram with loss of normal heat removal in the 3rd quarter of 2002. One FAQ that was previously submitted is still open. Disposition of this FAQ is required to evaluate two reactor scrams.

Unplanned Power Changes per 7000 Critical Hrs



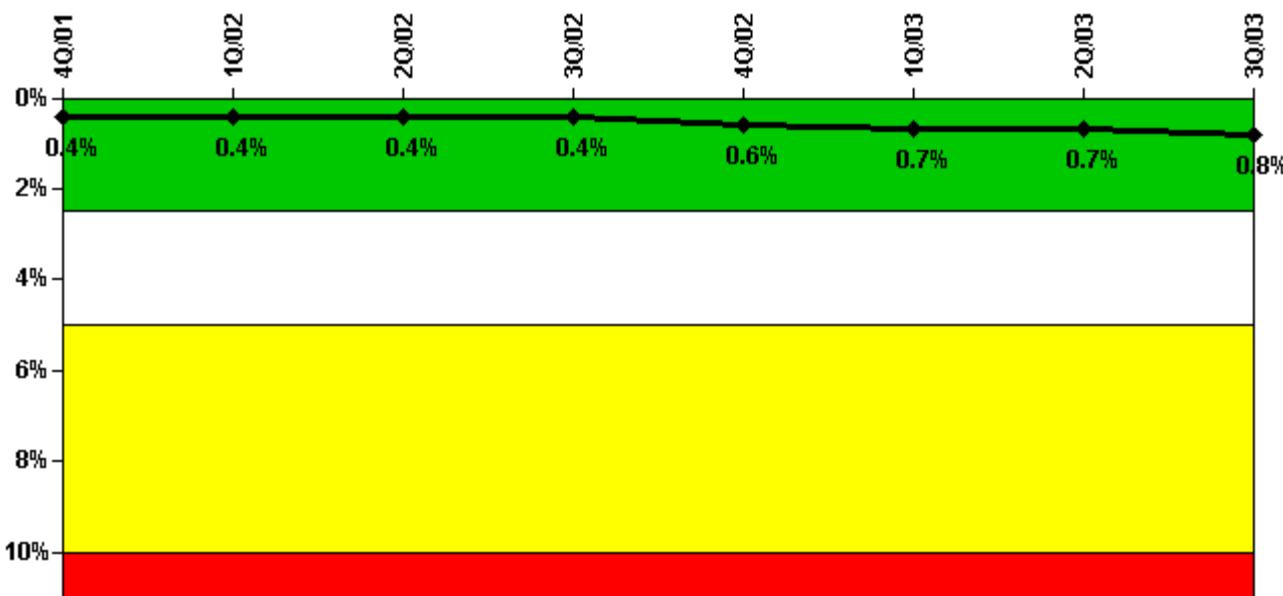
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned power changes	1.0	0	2.0	1.0	0	1.0	0	1.0
Critical hours	2008.0	1261.5	1965.5	2027.5	2209.0	1884.6	824.0	1832.1
Indicator value	4.5	3.0	5.2	3.9	2.8	3.5	2.0	2.1

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



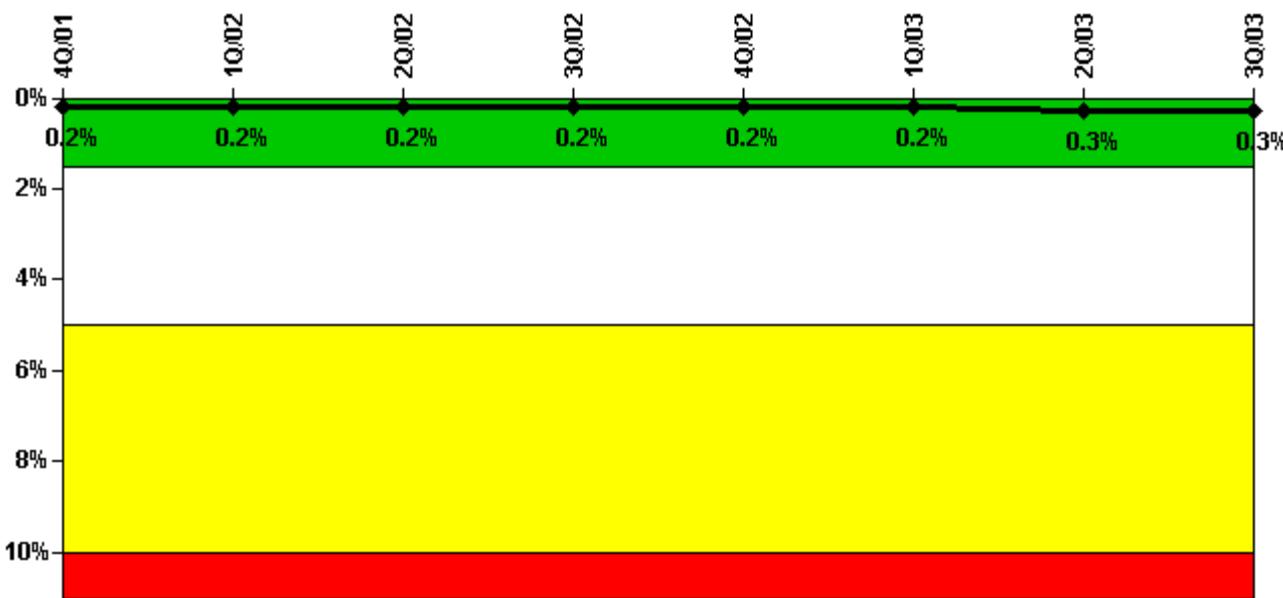
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	1.20	5.38	11.33	0.70	0.70	33.52	0.32	21.99
Unplanned unavailable hours	0	0	0	0	81.80	49.10	0	8.63
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1903.80	2183.00	2208.00	2209.00	2160.00	2185.00	2208.00
Train 2								
Planned unavailable hours	2.22	0.20	14.60	22.90	6.30	1.18	0.65	9.35
Unplanned unavailable hours	0	0	0	0	18.80	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	2.00
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2064.00	2183.00	2208.00	2209.00	2160.00	1079.77	2208.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.6%	0.7%	0.7%	0.8%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

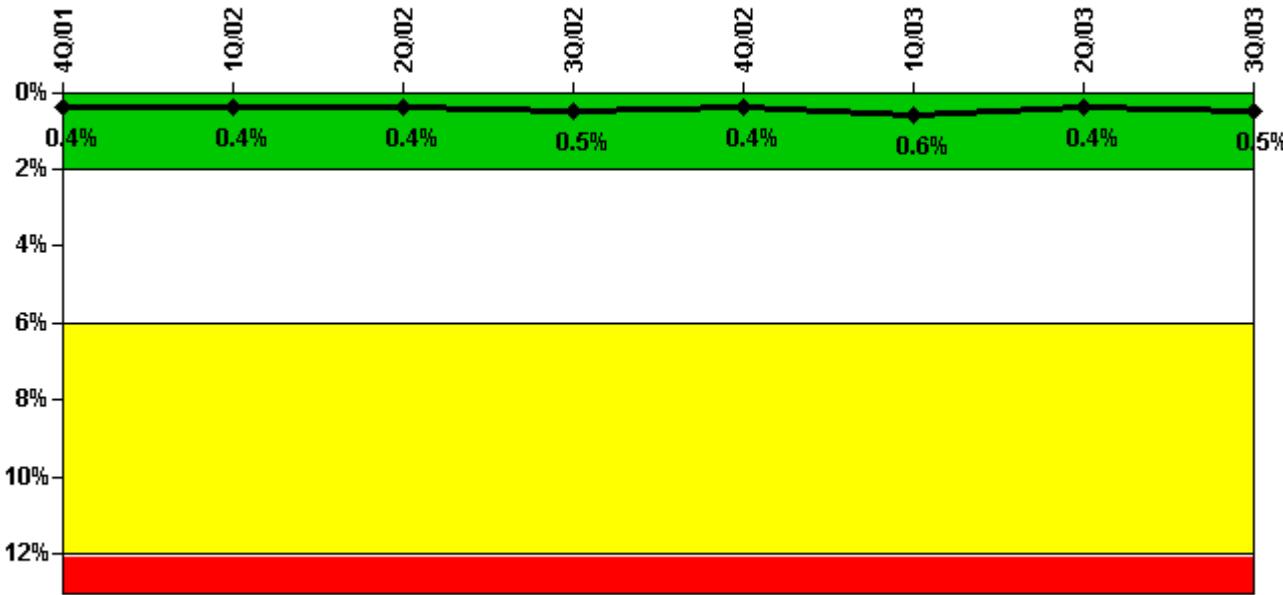
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)		4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1									
Planned unavailable hours		15.45	11.00	0	10.03	0	1.65	3.33	8.58
Unplanned unavailable hours		0	0	0	0	0	0	64.58	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2209.00	1389.76	2183.00	2118.98	2209.00	2160.00	927.64	2096.37
Train 2									
Planned unavailable hours		0	1.87	0	11.82	0	1.35	10.97	0
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2209.00	1329.94	2183.00	2208.00	2209.00	2130.15	1007.37	1886.30
Train 3									
Planned unavailable hours		0	0	0	0	23.15	8.57	0	0
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2209.00	1389.76	2183.00	2118.98	2209.00	2130.15	912.07	1886.30
Train 4									
Planned unavailable hours		12.48	0	5.95	0	0	1.23	0	9.08
Unplanned unavailable hours		0	0	0	18.77	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0

Required hours	2209.00	1329.94	2183.00	2118.98	2209.00	2130.15	912.07	1886.30
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

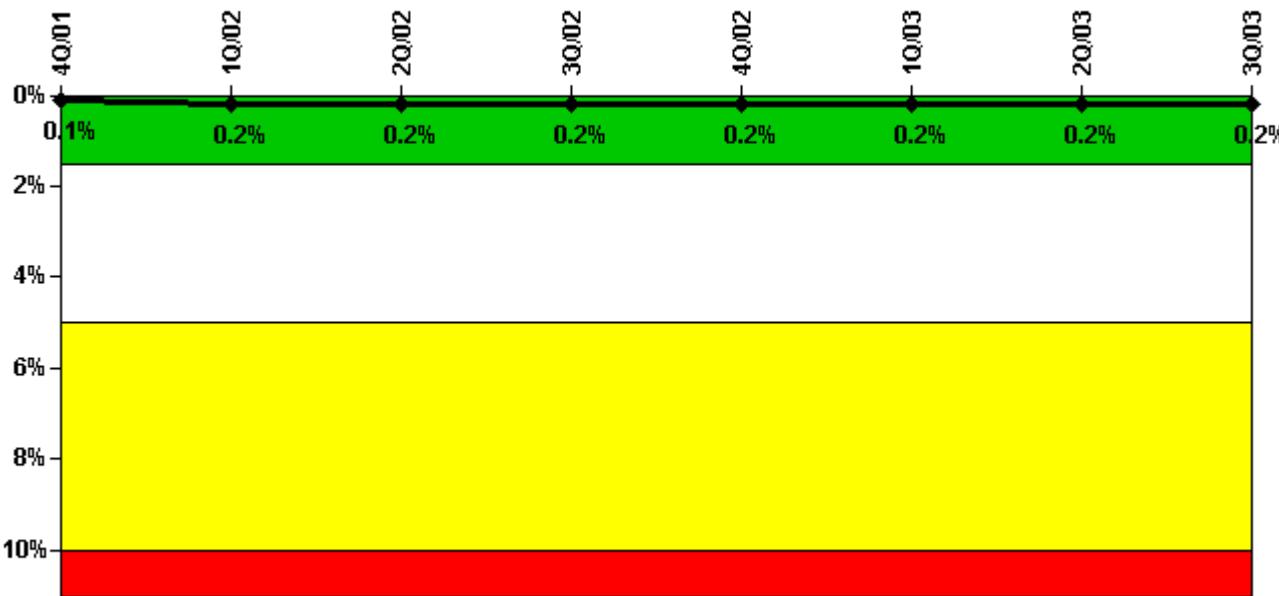
Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0	0	0	6.85	0	36.12	0	6.05
Unplanned unavailable hours	0	0	0	27.33	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	438.92	2183.00	2118.98	2209.00	2132.20	912.07	1886.30
Train 2								
Planned unavailable hours	0	2.52	9.23	9.05	0	29.38	0	0
Unplanned unavailable hours	0	0	6.08	0	0	59.48	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	438.92	2183.00	2118.98	2209.00	2131.20	912.07	1886.30
Train 3								

Planned unavailable hours	0	0	0	23.93	0	9.03	0	0
Unplanned unavailable hours	0	14.79	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	438.92	2183.00	2118.98	2209.00	2131.20	912.07	1886.30
Indicator value	0.4%	0.4%	0.4%	0.5%	0.4%	0.6%	0.4%	0.5%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

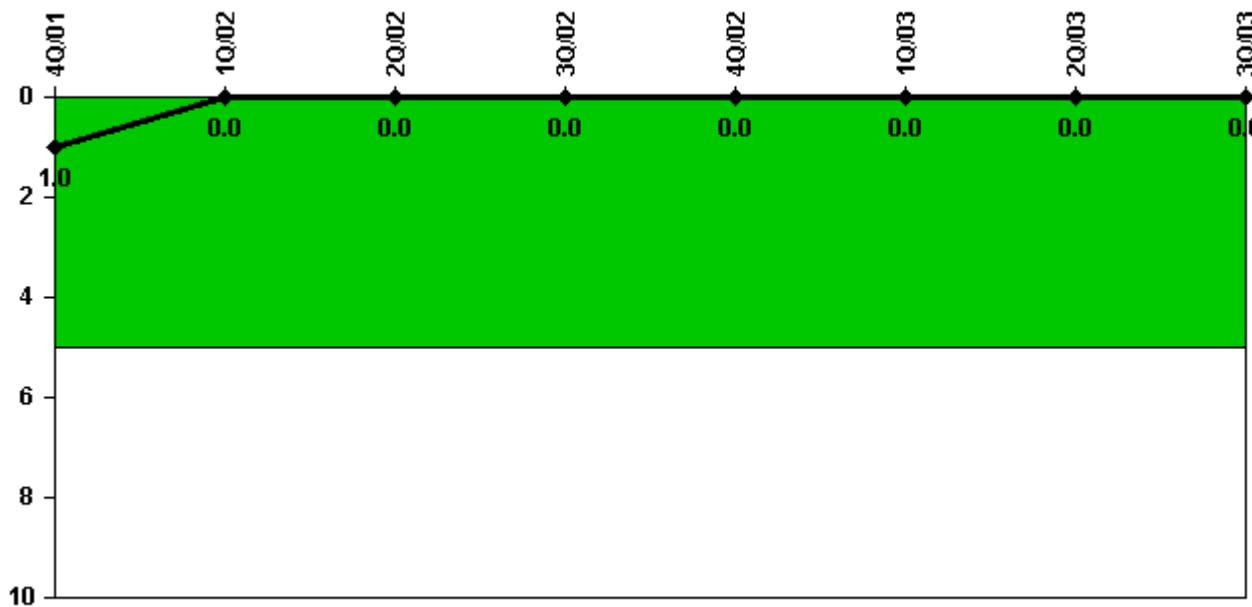
Notes

Safety System Unavailability, Residual Heat Removal System	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0	15.62	0	8.77	8.05	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1857.00	2183.00	2208.00	2209.00	2160.00	1838.30	2208.00
Train 2								
Planned unavailable hours	0	7.58	0	10.20	6.03	0	0	10.67
Unplanned unavailable hours	0	0	0	0	0	0	0	0

Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1857.00	2183.00	2208.00	2209.00	2160.00	1838.30	2208.00
Indicator value	0.1%	0.2%						

Licensee Comments: none

Safety System Functional Failures (PWR)



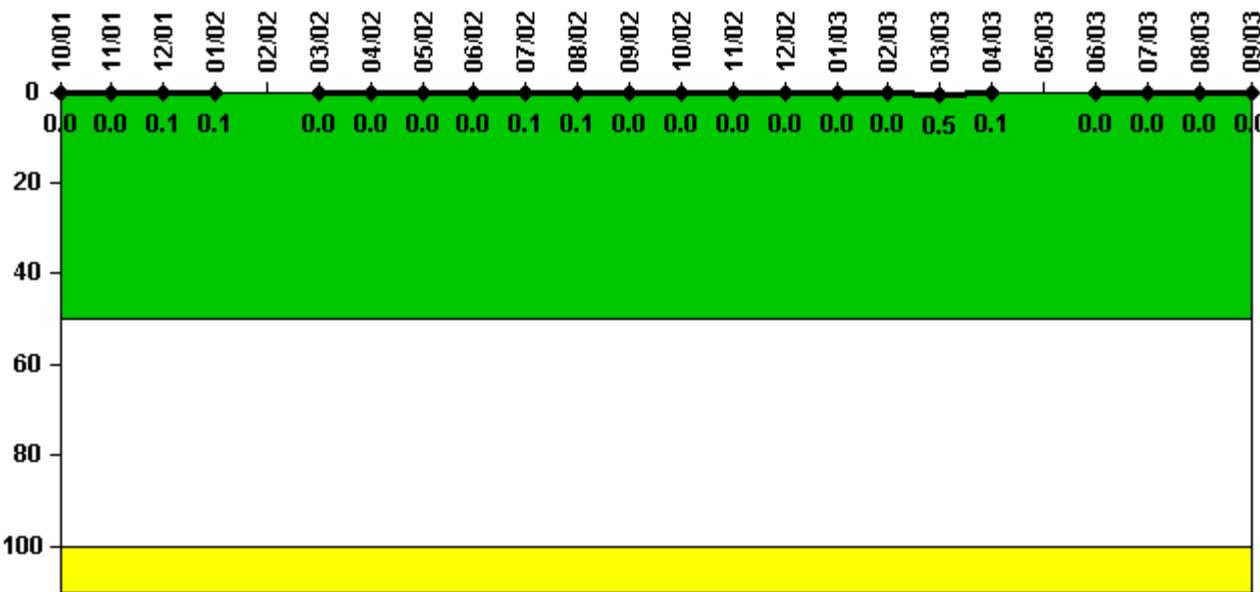
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	1	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

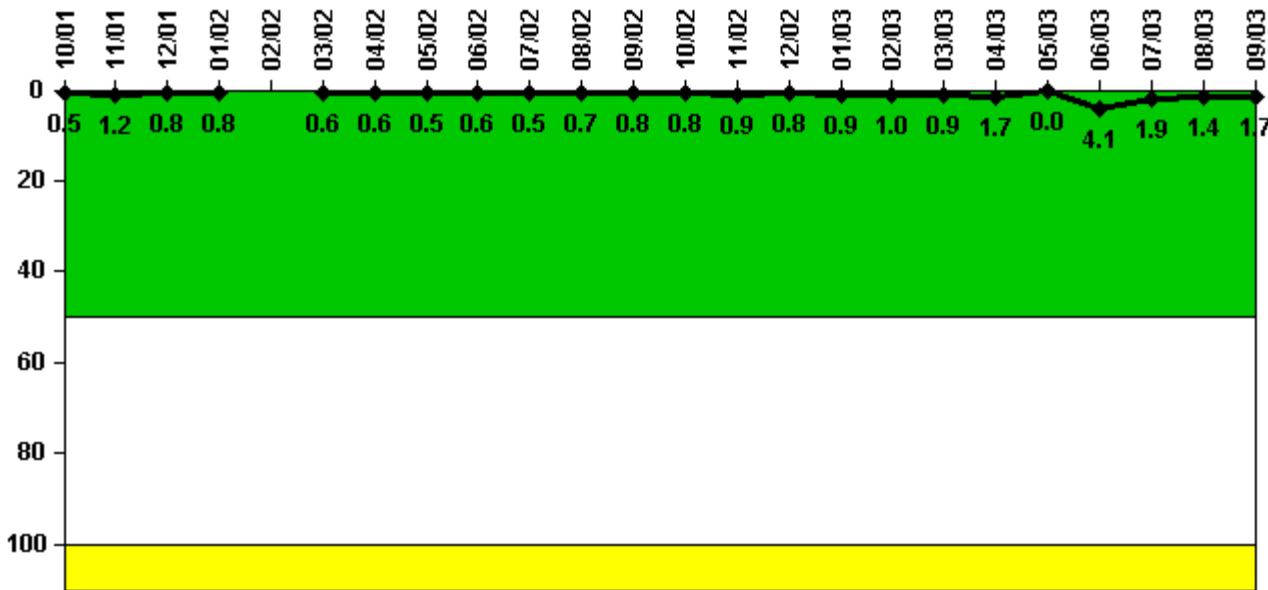
Reactor Coolant System Activity	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum activity	0.000480	0.000497	0.000515	0.000509	N/A	0.000212	0.000242	0.000214	0.000238	0.001100	0.000641	0.000316
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0.1	0.1	N/A	0	0	0	0	0.1	0.1	0

Reactor Coolant System Activity	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum activity	0.000359	0.000324	0.000313	0.000313	0.000368	0.004970	0.001070	N/A	0.000159	0.000217	0.000175	0.000188
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0.5	0.1	N/A	0	0	0	0

Licensee Comments:

6/03: Unit 2 was shut down for the month of May, 2003.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

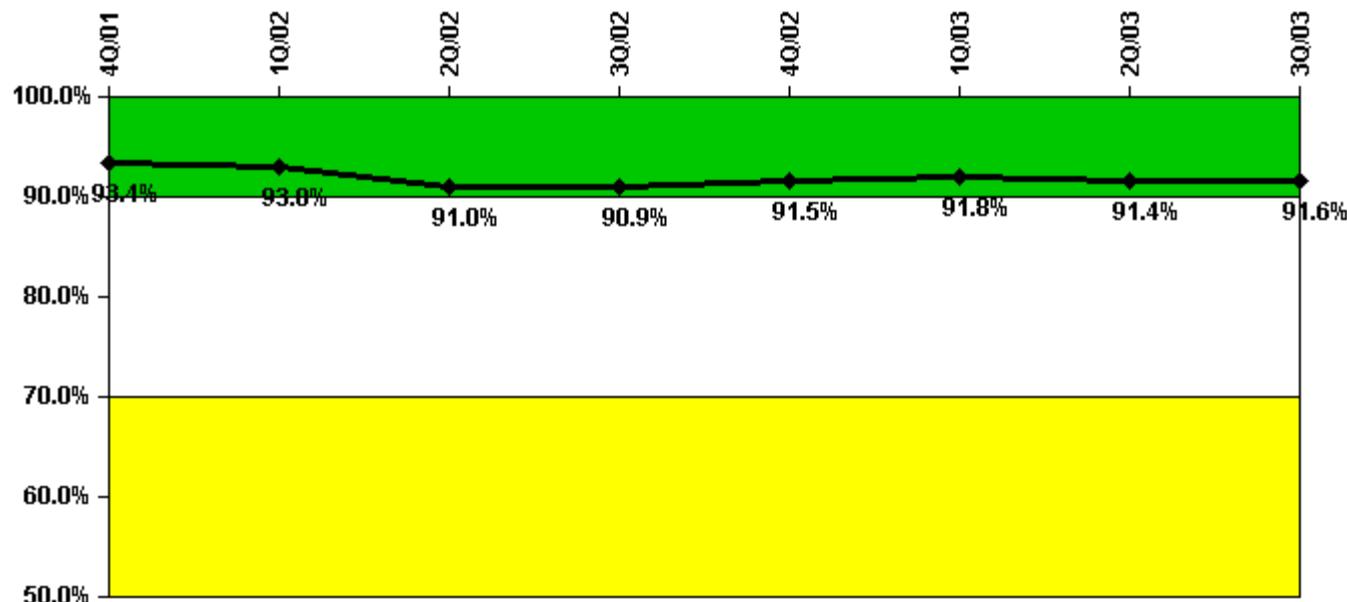
Notes

Reactor Coolant System Leakage	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum leakage	0.050	0.130	0.090	0.085	N/A	0.068	0.071	0.057	0.064	0.058	0.080	0.086
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.5	1.2	0.8	0.8	N/A	0.6	0.6	0.5	0.6	0.5	0.7	0.8

Reactor Coolant System Leakage	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum leakage	0.090	0.100	0.090	0.096	0.110	0.097	0.184	0	0.450	0.211	0.152	0.190
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.8	0.9	0.8	0.9	1.0	0.9	1.7	0	4.1	1.9	1.4	1.7

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

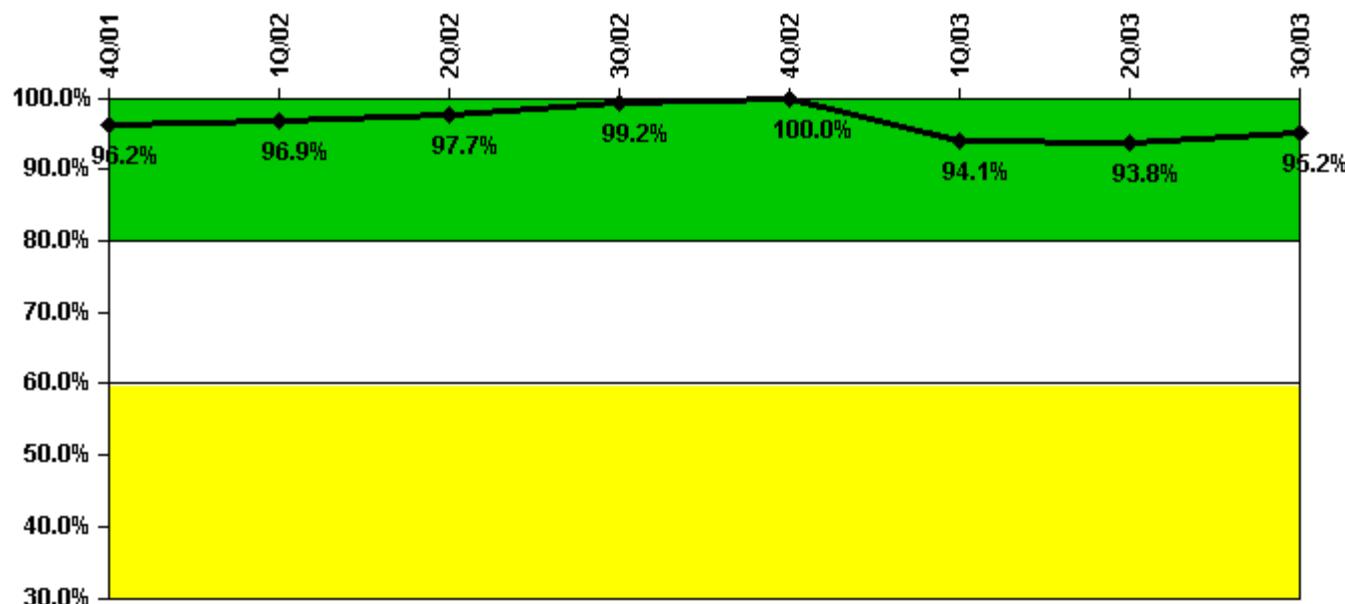
Drill/Exercise Performance	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Successful opportunities	90.0	43.0	24.0	140.0	149.0	85.0	30.0	176.0
Total opportunities	104.0	46.0	34.0	150.0	159.0	87.0	33.0	192.0
Indicator value	93.4%	93.0%	91.0%	90.9%	91.5%	91.8%	91.4%	91.6%

Licensee Comments:

2Q/03: The change in the Q2 data reduced the number of drill, exercise, or actual event opportunities reported by 1 and the number successfully completed by 1. This change did not result in a change of color for this performance indicator.

1Q/03: The change in the Q1 data reduced the number of drill, exercise, or actual event opportunities reported by 8 and the number sucessfully completed by 7. This change did not result in a change of color for this performance indicator.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

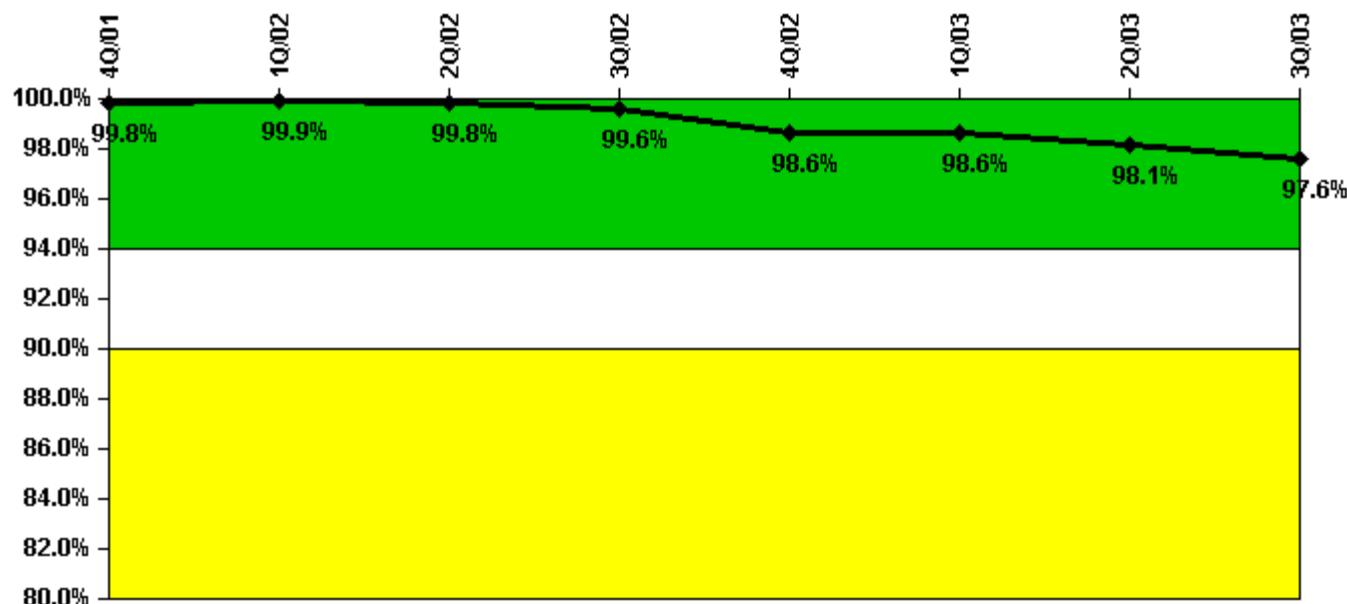
ERO Drill Participation	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Participating Key personnel	125.0	127.0	125.0	130.0	131.0	143.0	135.0	138.0
Total Key personnel	130.0	131.0	128.0	131.0	131.0	152.0	144.0	145.0
Indicator value	96.2%	96.9%	97.7%	99.2%	100.0%	94.1%	93.8%	95.2%

Licensee Comments:

2Q/03: The change in the Q2 data reduced the number of key ERO members who participated in a drill, exercise, or actual event by 9. This change did not result in a change of color for this performance indicator.

1Q/03: The change in the Q1 data reduced the number of key ERO members who participated in a drill, exercise, or actual event by 8. This change did not result in a change of color for this performance indicator.

Alert & Notification System

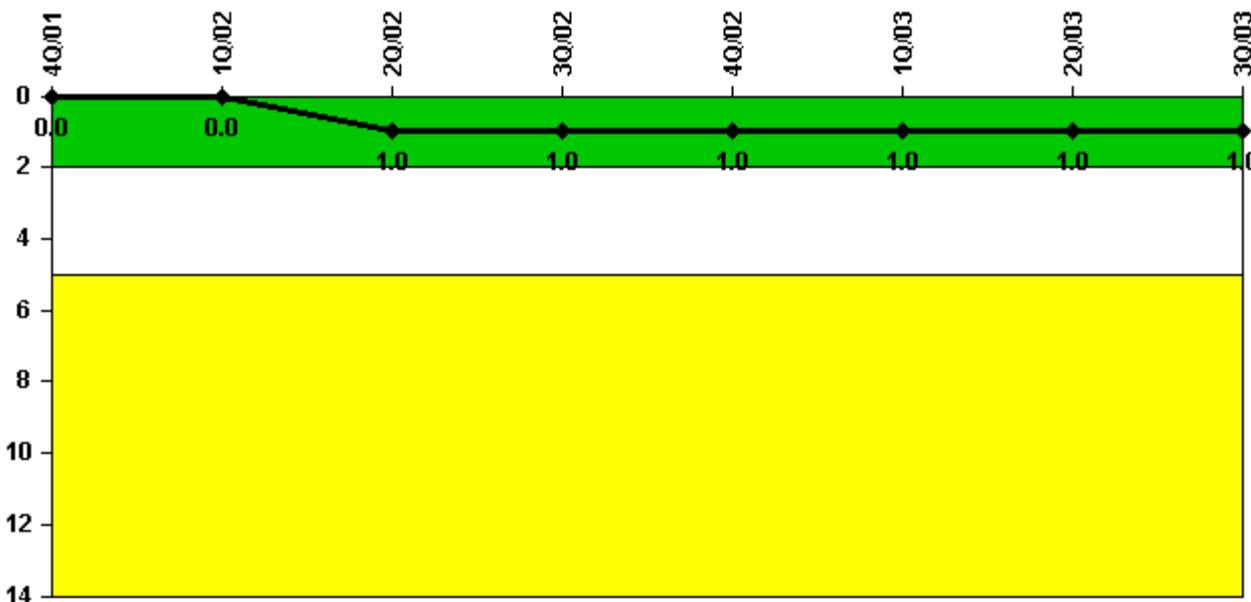


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Successful siren-tests	209	210	209	209	200	210	205	205
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	99.8%	99.9%	99.8%	99.6%	98.6%	98.6%	98.1%	97.6%

Licensee Comments: none

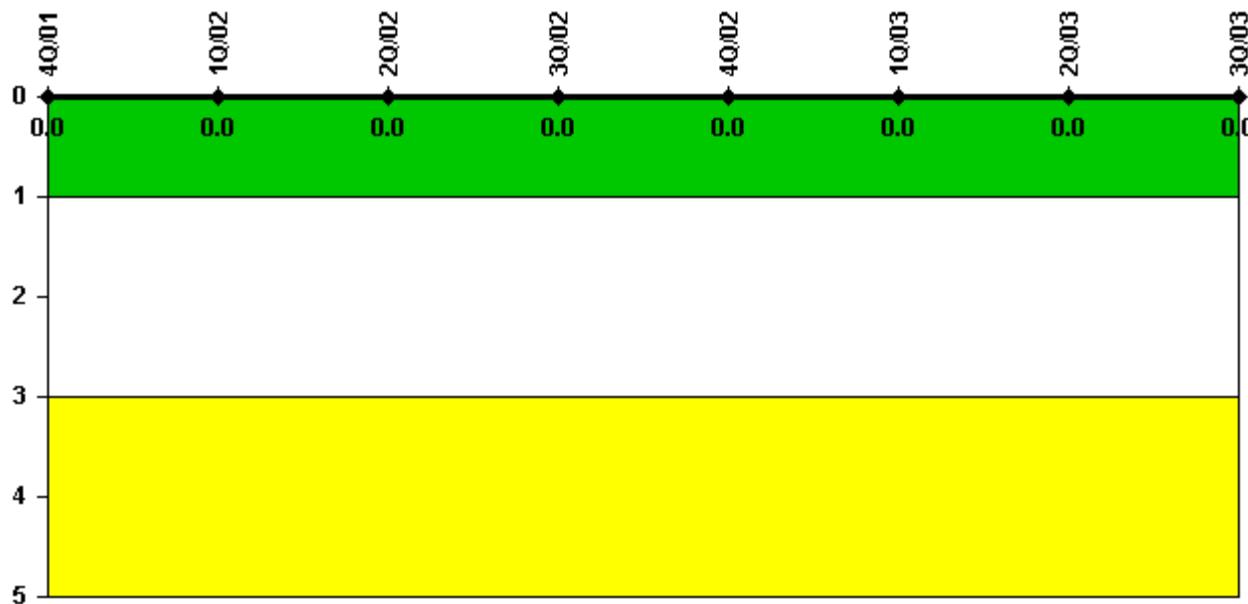
Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
High radiation area occurrences	0	0	1	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	1	0
Indicator value	0	0	1	1	1	1	1	1

Licensee Comments: none

RETS/ODCM Radiological Effluent

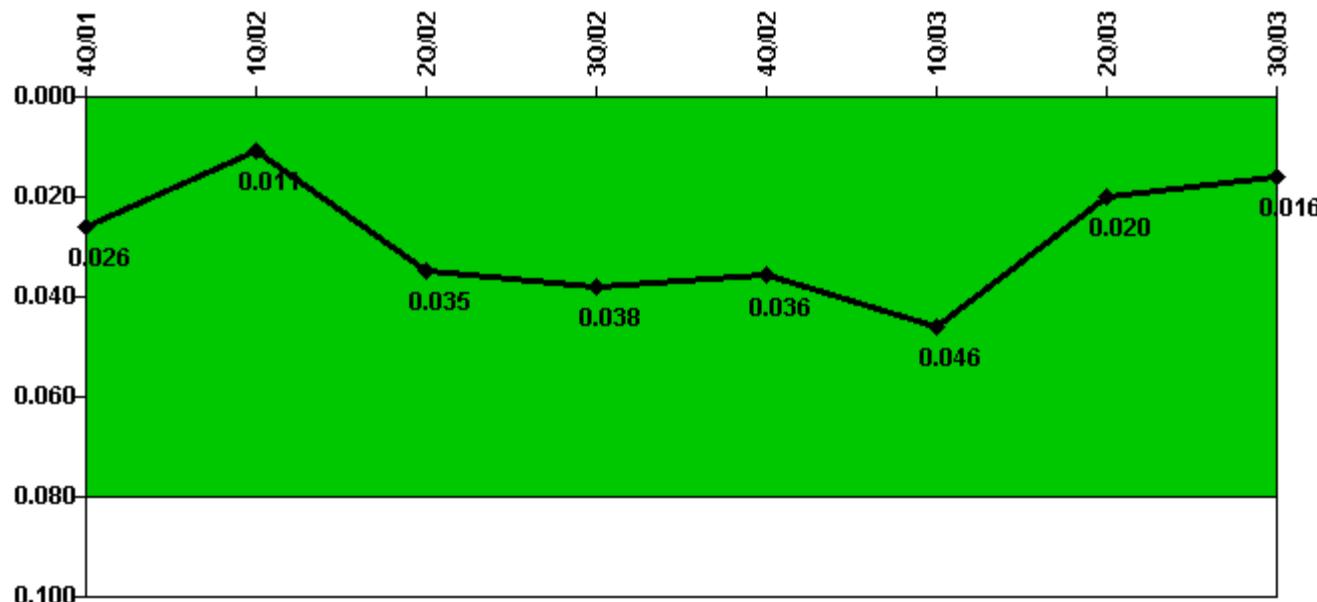
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



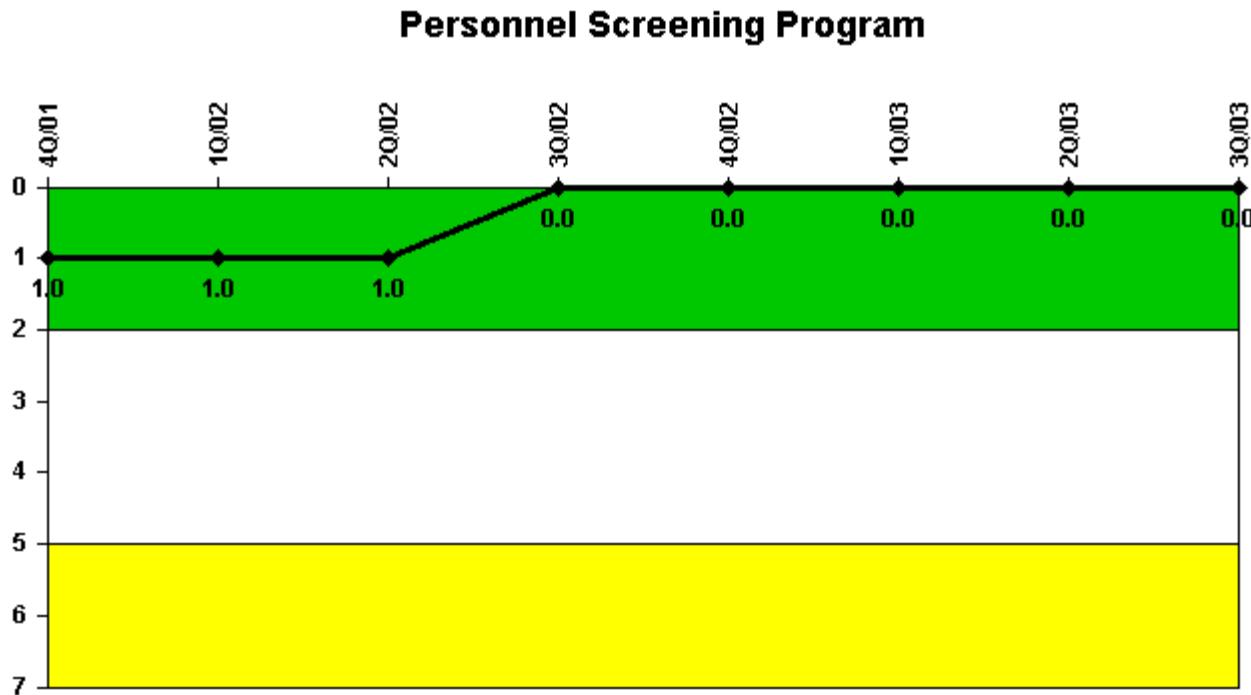
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
IDS compensatory hours	103.70	28.20	680.50	111.70	52.10	263.40	25.70	25.20
CCTV compensatory hours	0	0	0	0	4.4	16.2	0	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.026	0.011	0.035	0.038	0.036	0.046	0.020	0.016

Licensee Comments:

3Q/03: In accordance with NEI 99-02, compensatory hours associated with scheduled equipment upgrades that are being performed and those compensatory hours for configuration issues associated with the equipment upgrades are excluded.

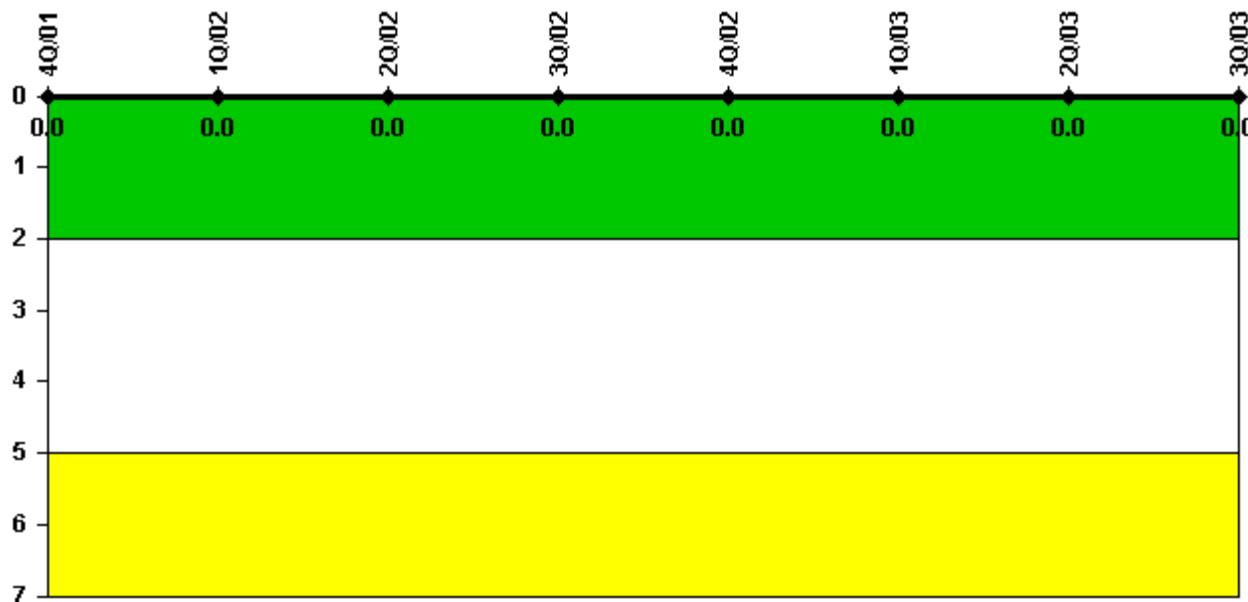


Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Program failures	0	0	0	0	0	0	0	0
Indicator value	1	1	1	0	0	0	0	0

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Program Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none



[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

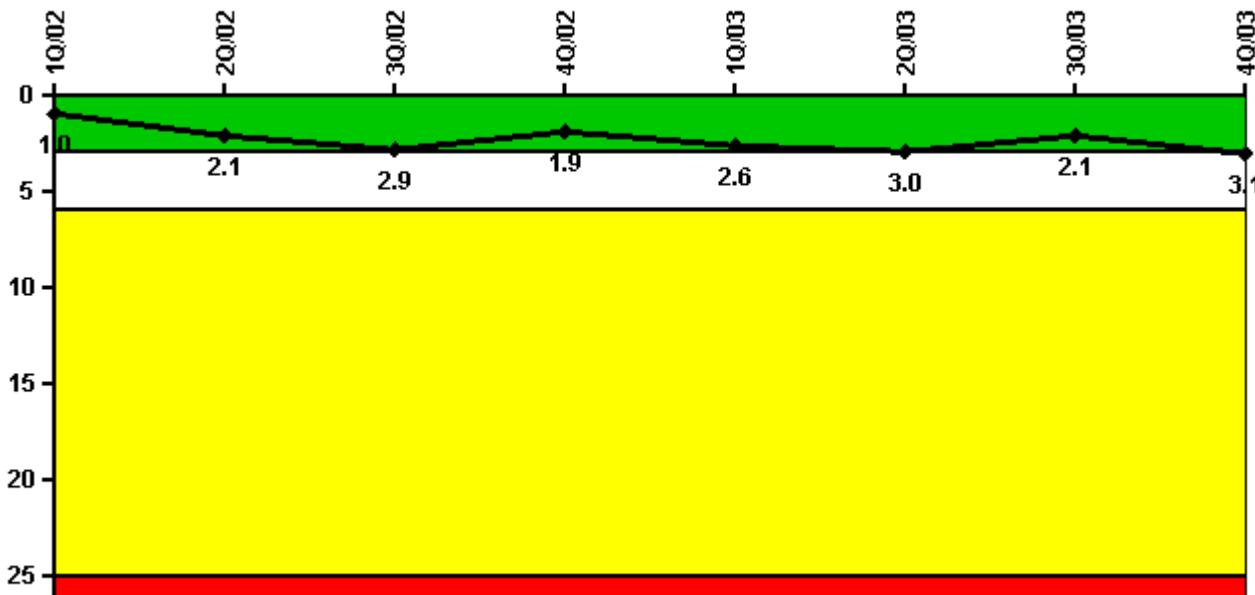
Last Modified: October 23, 2003

D.C. Cook 2

4Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



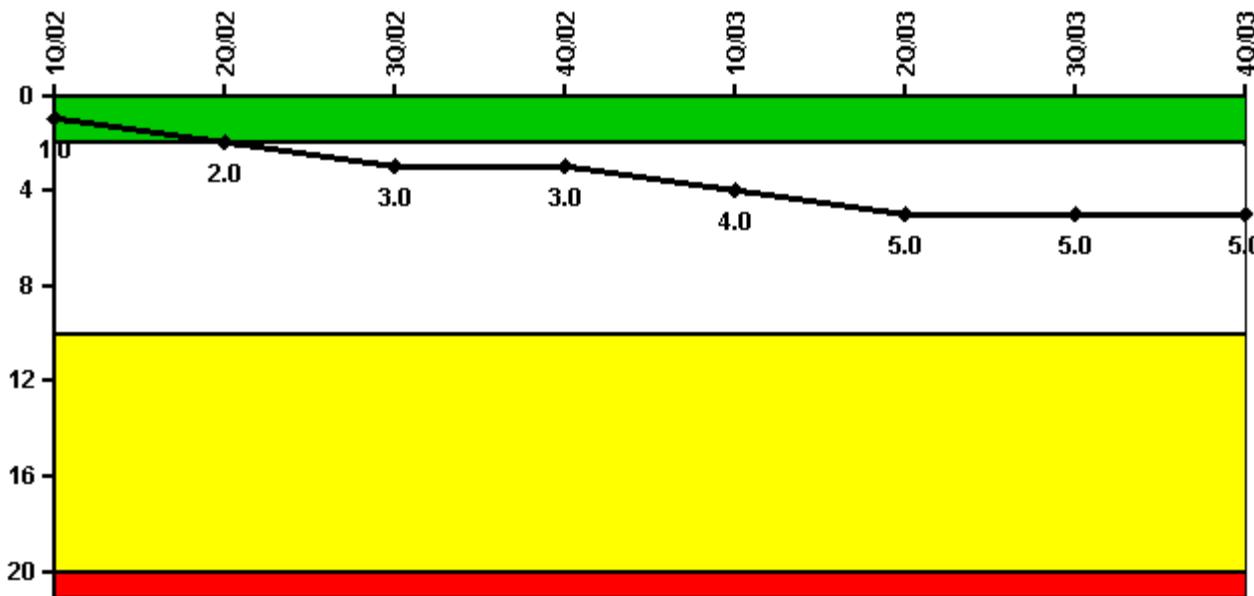
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned scrams	0	1.0	1.0	0	1.0	1.0	0	1.0
Critical hours	1261.5	1965.5	2027.5	2209.0	1884.6	824.0	1832.1	2174.5
Indicator value	1.0	2.1	2.9	1.9	2.6	3.0	2.1	3.1

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Scrams	0	1.0	1.0	0	1.0	1.0	0	0
Indicator value	1.0	2.0	3.0	3.0	4.0	5.0	5.0	5.0

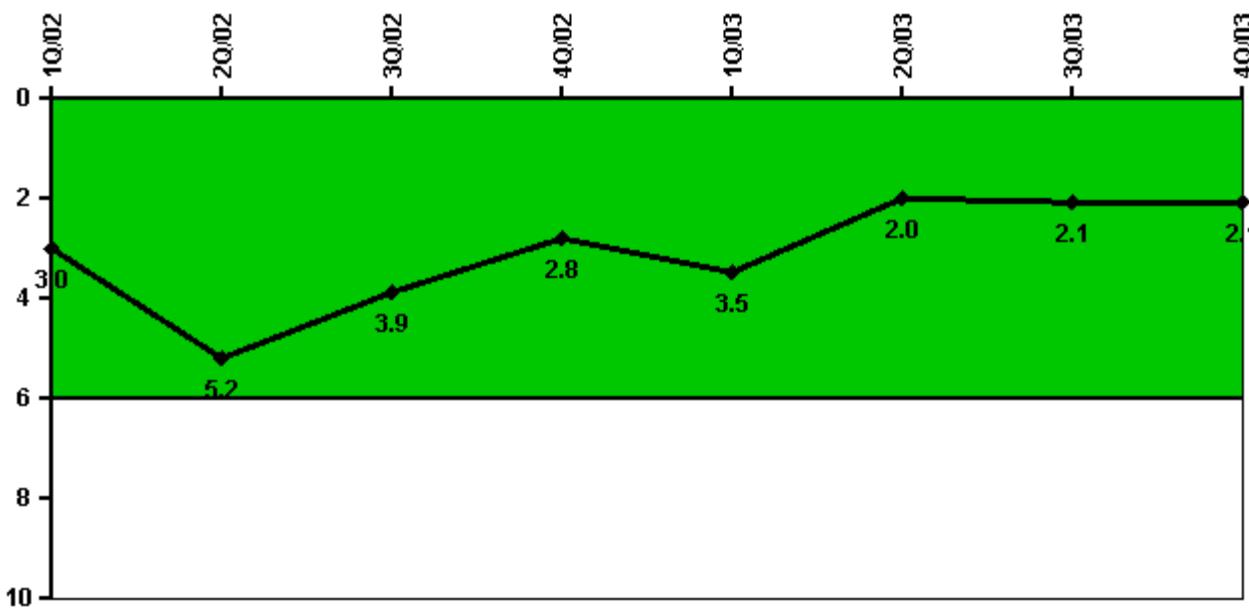
Licensee Comments:

4Q/03: A change report is being submitted to "count" unplanned scrams from the 4th QTR 2001 and 1st QTR 2003 in this indicator. These scrams are currently being reviewed under the FAQ process. If the results of the FAQ process determine that the scrams do not count for this indicator, a change report will be submitted to remove the scrams.

3Q/03: One frequently asked question (FAQ) that was previously submitted was dispositioned to count against this performance indicator as a scram with loss of normal heat removal in the 3rd quarter of 2002. One FAQ that was previously submitted is still open. Disposition of this FAQ is required to evaluate two reactor scrams.

1Q/03: Two frequently asked questions have been submitted to address three reactor scrams that the NRC resident inspector believes should be counted under this reporting criteria. Final resolution may result in the green/white performance indicator threshold being exceeded.

Unplanned Power Changes per 7000 Critical Hrs



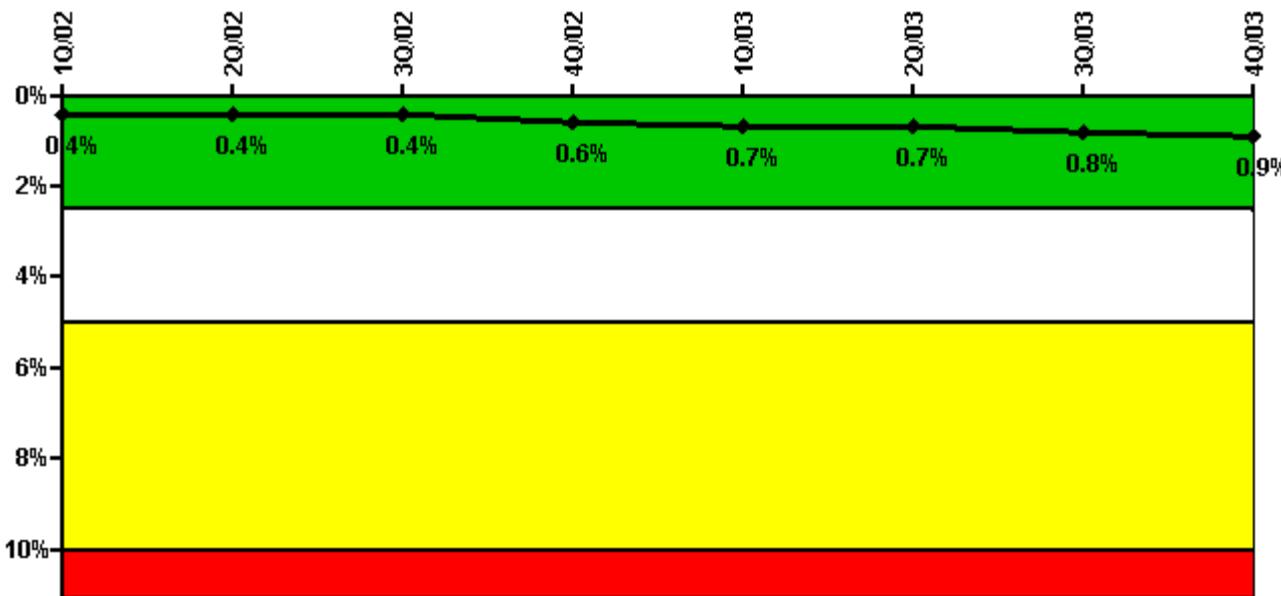
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned power changes	0	2.0	1.0	0	1.0	0	1.0	0
Critical hours	1261.5	1965.5	2027.5	2209.0	1884.6	824.0	1832.1	2174.5
Indicator value	3.0	5.2	3.9	2.8	3.5	2.0	2.1	2.1

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

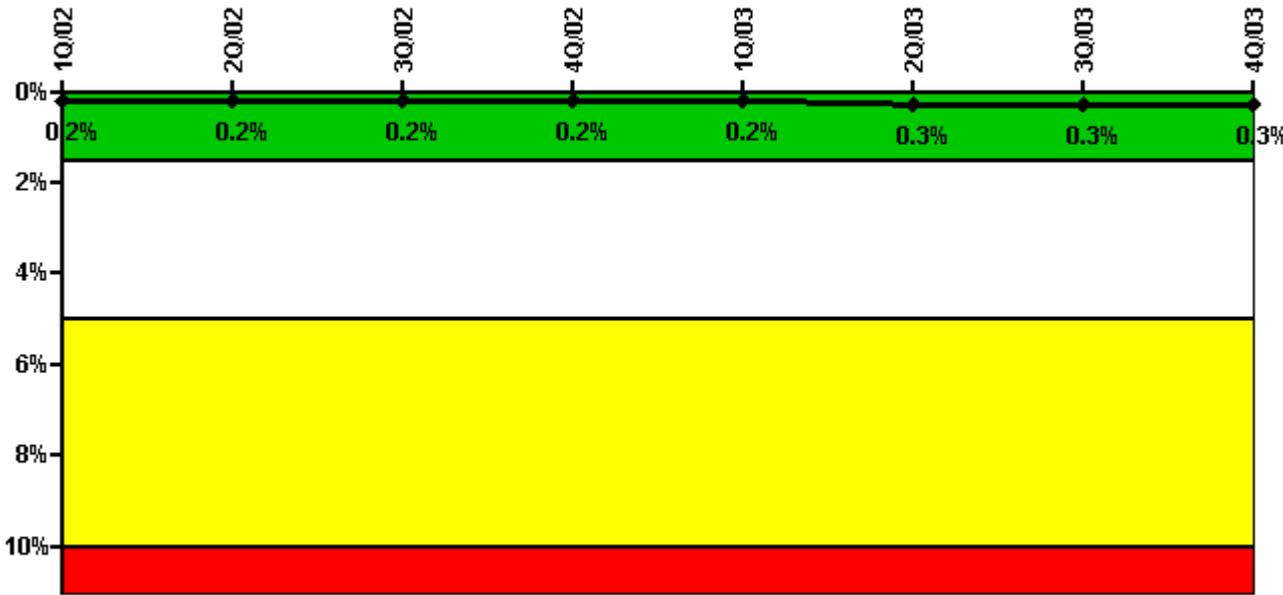
Safety System Unavailability, Emergency AC Power	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	5.38	11.33	0.70	0.70	33.52	0.32	21.99	1.14
Unplanned unavailable hours	0	0	0	81.80	49.10	0	8.63	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1903.80	2183.00	2208.00	2209.00	2160.00	2185.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0.20	14.60	22.90	6.30	1.18	0.65	9.35	0.78
Unplanned unavailable hours	0	0	0	18.80	0	0	0	102.12
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2064.00	2183.00	2208.00	2209.00	2160.00	1079.77	2208.00	2209.00
Indicator value	0.4%	0.4%	0.4%	0.6%	0.7%	0.7%	0.8%	0.9%

Licensee Comments:

4Q/03: A change report is being submitted to correct the number fault exposure hours report in the 3rd QTR 2003 for the Unit 2 Train 2 AB emergency diesel generator. This change reduces the number of reported fault exposure hours from 2 to 0.

4Q/00: Change made to add planned unavailable hours to train 1EDG to account for CO2 testing. Change made to correct Train 2 AB EDG Fault Exposure Hours to correct typographical error.

Safety System Unavailability, High Pressure Injection System (HPSI)



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

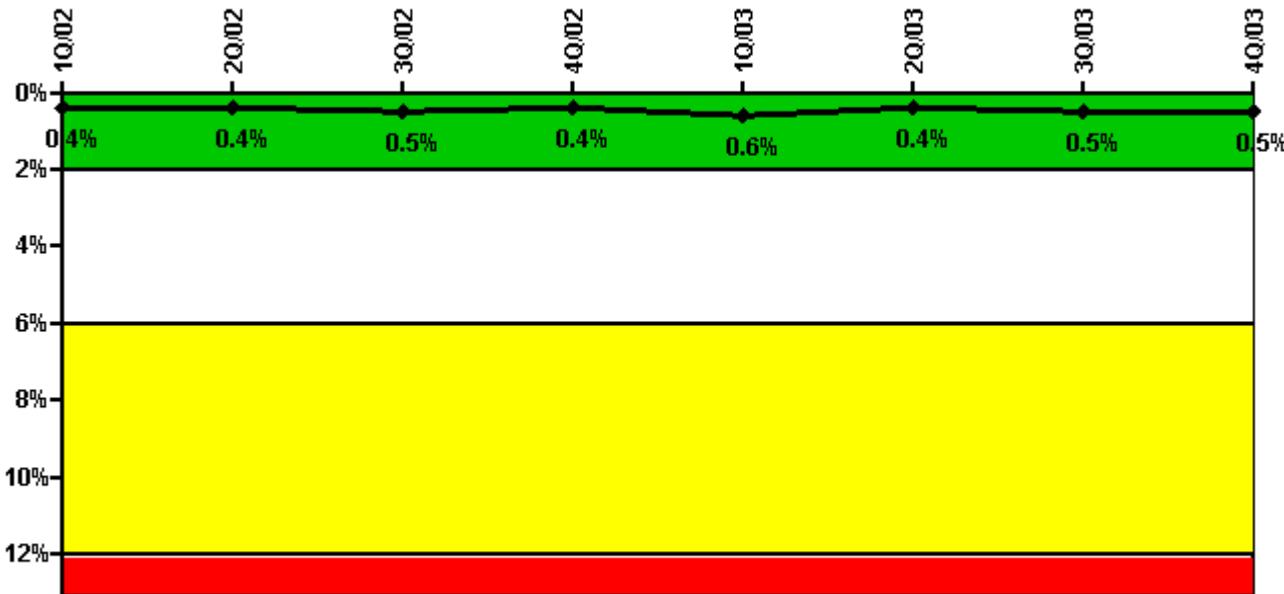
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)		1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1									
Planned unavailable hours		11.00	0	10.03	0	1.65	3.33	8.58	0
Unplanned unavailable hours		0	0	0	0	0	64.58	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		1389.76	2183.00	2118.98	2209.00	2160.00	927.64	2096.37	2209.00
Train 2									
Planned unavailable hours		1.87	0	11.82	0	1.35	10.97	0	3.53
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		1329.94	2183.00	2208.00	2209.00	2130.15	1007.37	1886.30	2209.00
Train 3									
Planned unavailable hours		0	0	0	23.15	8.57	0	0	0
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		1389.76	2183.00	2118.98	2209.00	2130.15	912.07	1886.30	2209.00

Train 4								
Planned unavailable hours		0	5.95	0	0	1.23	0	9.08
Unplanned unavailable hours		0	0	18.77	0	0	0	13.42
Fault exposure hours		0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0
Required hours		1329.94	2183.00	2118.98	2209.00	2130.15	912.07	1886.30
Indicator value		0.2%	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

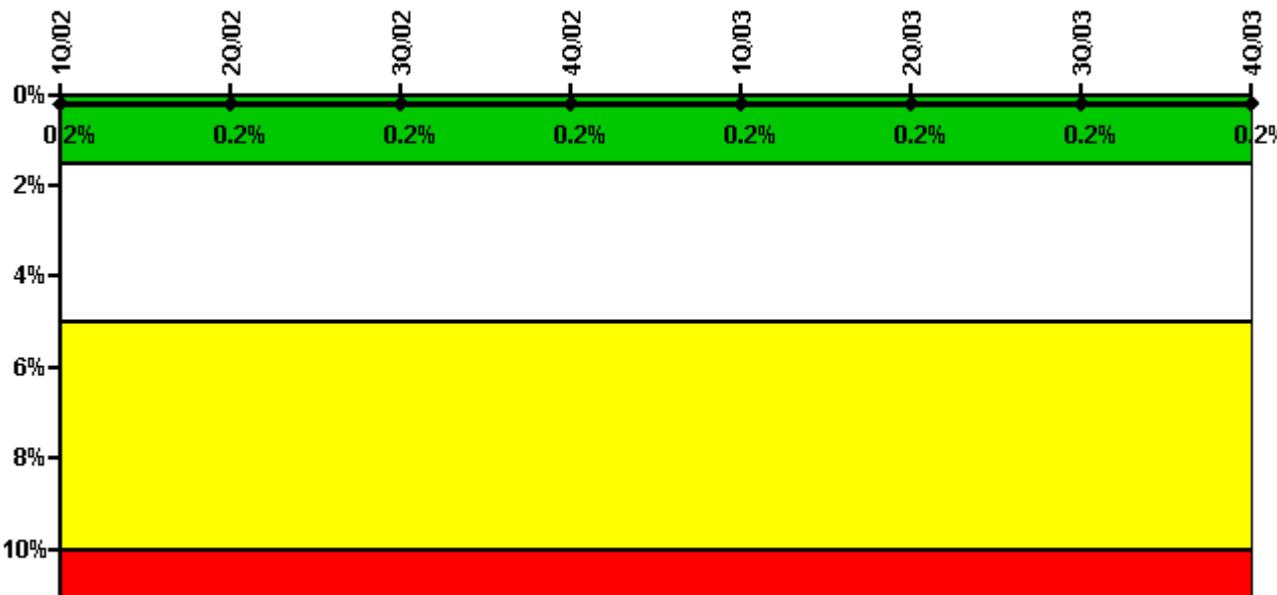
Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	0	0	6.85	0	36.12	0	6.05	4.62
Unplanned unavailable hours	0	0	27.33	0	0	0	0	0.05
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	438.92	2183.00	2118.98	2209.00	2132.20	912.07	1886.30	2209.00
Train 2								
Planned unavailable hours	2.52	9.23	9.05	0	29.38	0	0	0

Unplanned unavailable hours	0	6.08	0	0	59.48	0	0	0.07
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	438.92	2183.00	2118.98	2209.00	2131.20	912.07	1886.30	2209.00
Train 3								
Planned unavailable hours	0	0	23.93	0	9.03	0	0	20.90
Unplanned unavailable hours	14.79	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	438.92	2183.00	2118.98	2209.00	2131.20	912.07	1886.30	2209.00
Indicator value	0.4%	0.4%	0.5%	0.4%	0.6%	0.4%	0.5%	0.5%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

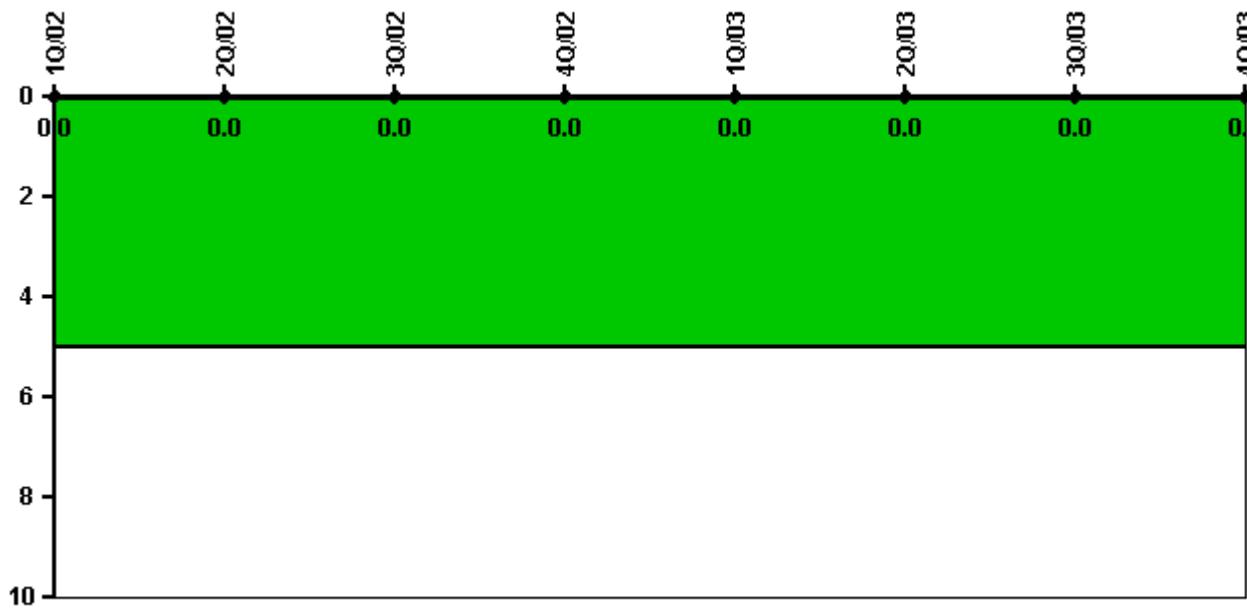
Notes

Safety System Unavailability, Residual Heat Removal System	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	15.62	0	8.77	8.05	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0

Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1857.00	2183.00	2208.00	2209.00	2160.00	1838.30	2208.00	2209.00
Train 2								
Planned unavailable hours	7.58	0	10.20	6.03	0	0	10.67	14.18
Unplanned unavailable hours	0	0	0	0	0	0	0	17.45
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1857.00	2183.00	2208.00	2209.00	2160.00	1838.30	2208.00	2209.00
Indicator value	0.2%							

Licensee Comments: none

Safety System Functional Failures (PWR)



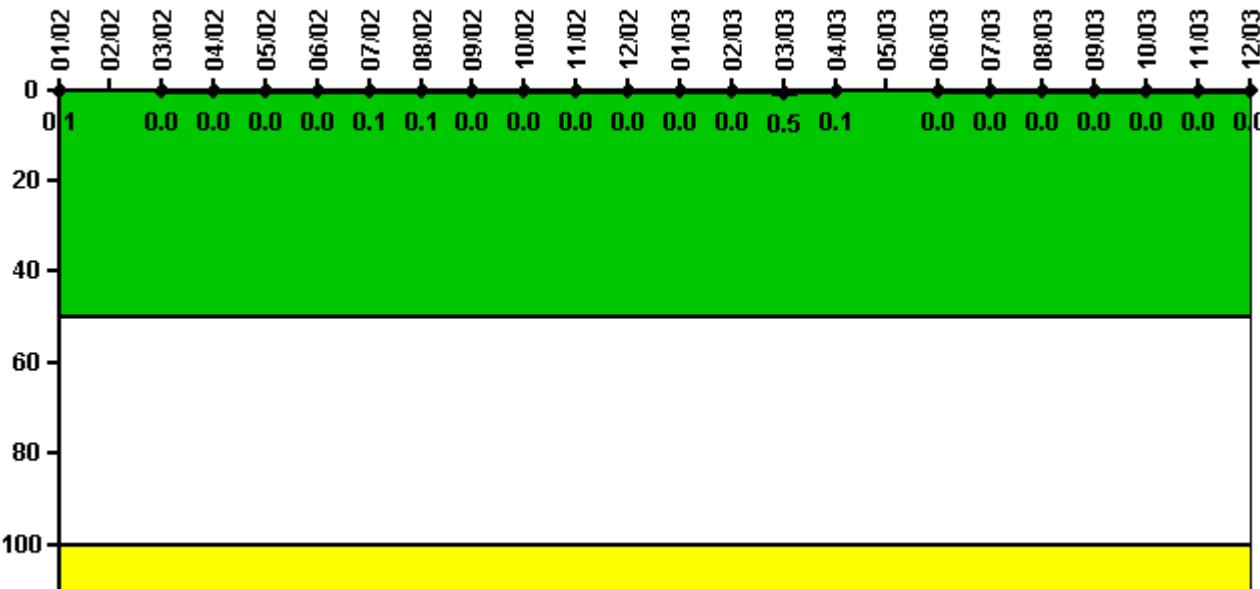
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Reactor Coolant System Activity



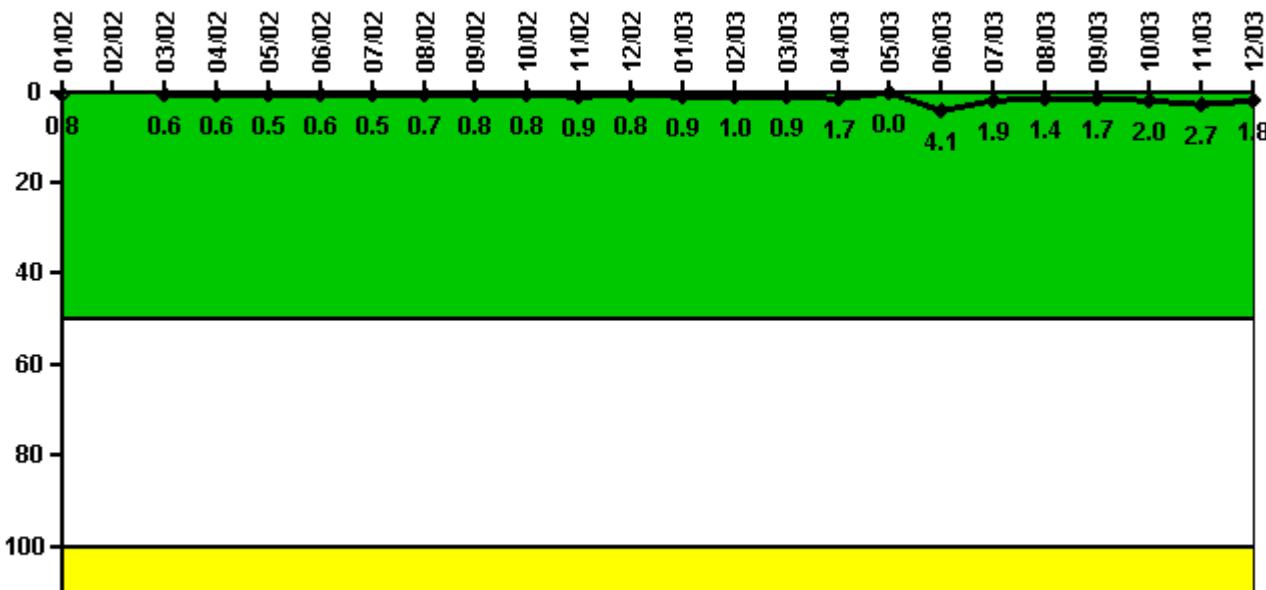
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum activity	0.000509	N/A	0.000212	0.000242	0.000214	0.000238	0.001100	0.000641	0.000316	0.000359	0.000324	0.000313
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	N/A	0	0	0	0	0.1	0.1	0	0	0	0
Reactor Coolant System Activity	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum activity	0.000313	0.000368	0.004970	0.001070	N/A	0.000159	0.000217	0.000175	0.000188	0.000196	0.000201	0.000215
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0.5	0.1	N/A	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



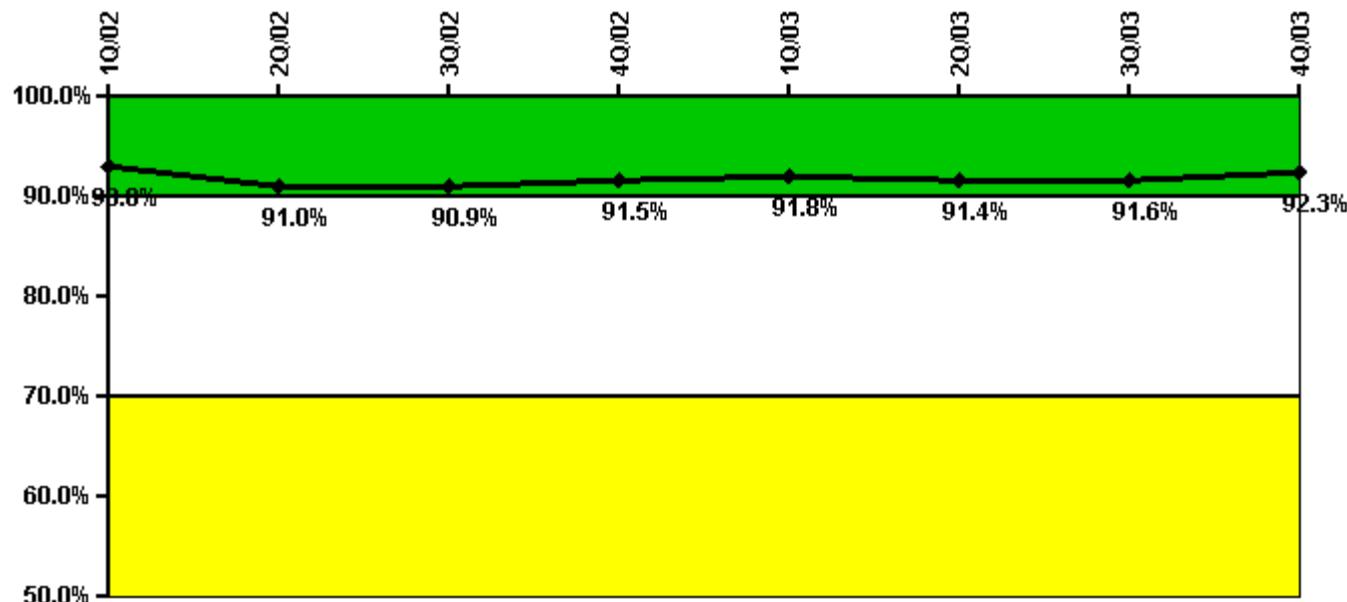
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage												
Maximum leakage	0.085	N/A	0.068	0.071	0.057	0.064	0.058	0.080	0.086	0.090	0.100	0.090
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.8	N/A	0.6	0.6	0.5	0.6	0.5	0.7	0.8	0.8	0.9	0.8
Reactor Coolant System Leakage												
Maximum leakage	0.096	0.110	0.097	0.184	0	0.450	0.211	0.152	0.190	0.220	0.294	0.193
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.9	1.0	0.9	1.7	0	4.1	1.9	1.4	1.7	2.0	2.7	1.8

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

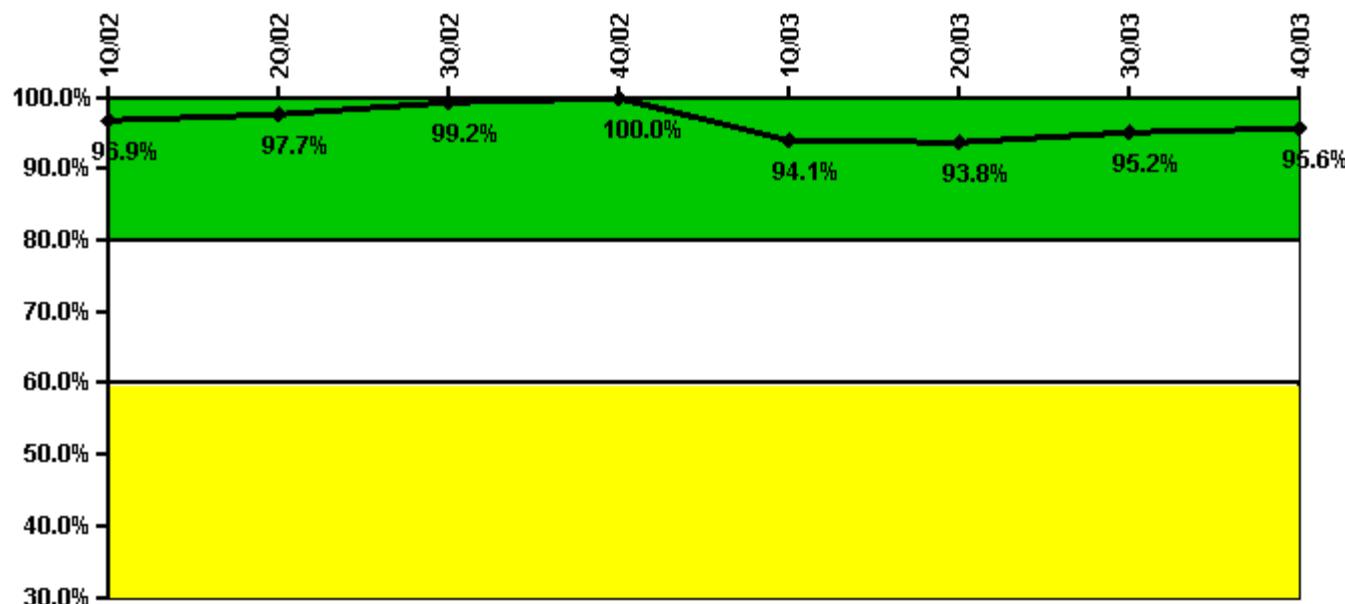
Drill/Exercise Performance	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Successful opportunities	43.0	24.0	140.0	149.0	85.0	30.0	176.0	83.0
Total opportunities	46.0	34.0	150.0	159.0	87.0	33.0	192.0	90.0
Indicator value	93.0%	91.0%	90.9%	91.5%	91.8%	91.4%	91.6%	92.3%

Licensee Comments:

2Q/03: The change in the Q2 data reduced the number of drill, exercise, or actual event opportunities reported by 1 and the number successfully completed by 1. This change did not result in a change of color for this performance indicator.

1Q/03: The change in the Q1 data reduced the number of drill, exercise, or actual event opportunities reported by 8 and the number sucessfully completed by 7. This change did not result in a change of color for this performance indicator.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

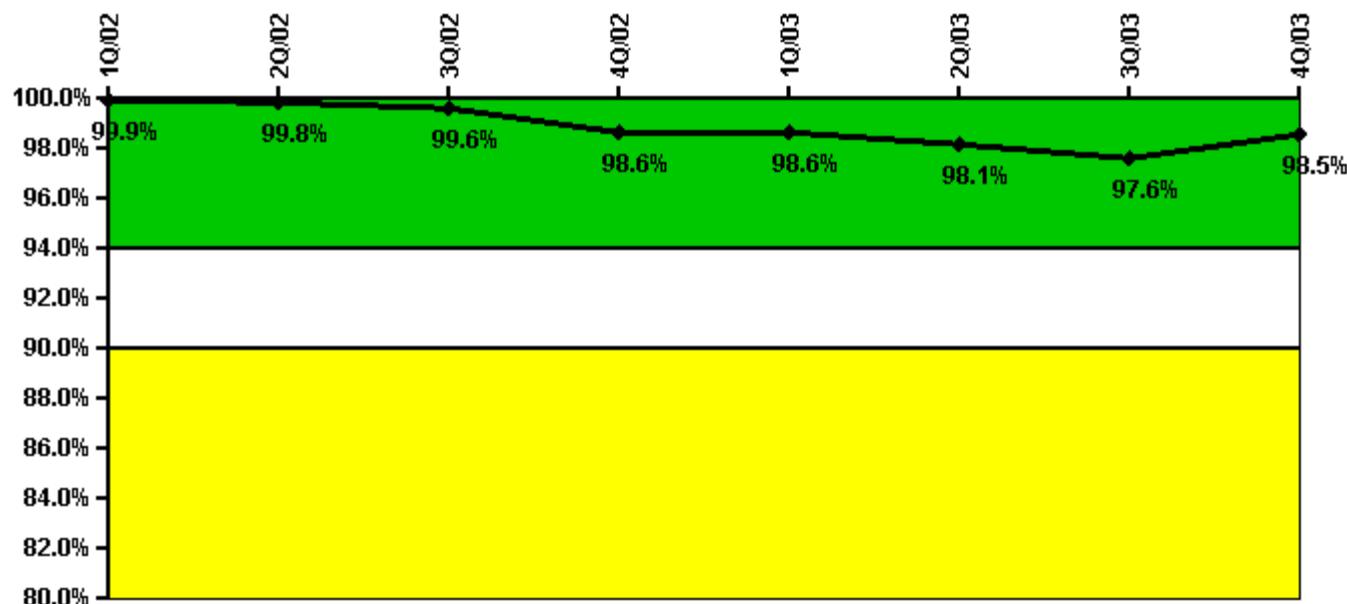
ERO Drill Participation	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Participating Key personnel	127.0	125.0	130.0	131.0	143.0	135.0	138.0	129.0
Total Key personnel	131.0	128.0	131.0	131.0	152.0	144.0	145.0	135.0
Indicator value	96.9%	97.7%	99.2%	100.0%	94.1%	93.8%	95.2%	95.6%

Licensee Comments:

2Q/03: The change in the Q2 data reduced the number of key ERO members who participated in a drill, exercise, or actual event by 9. This change did not result in a change of color for this performance indicator.

1Q/03: The change in the Q1 data reduced the number of key ERO members who participated in a drill, exercise, or actual event by 8. This change did not result in a change of color for this performance indicator.

Alert & Notification System

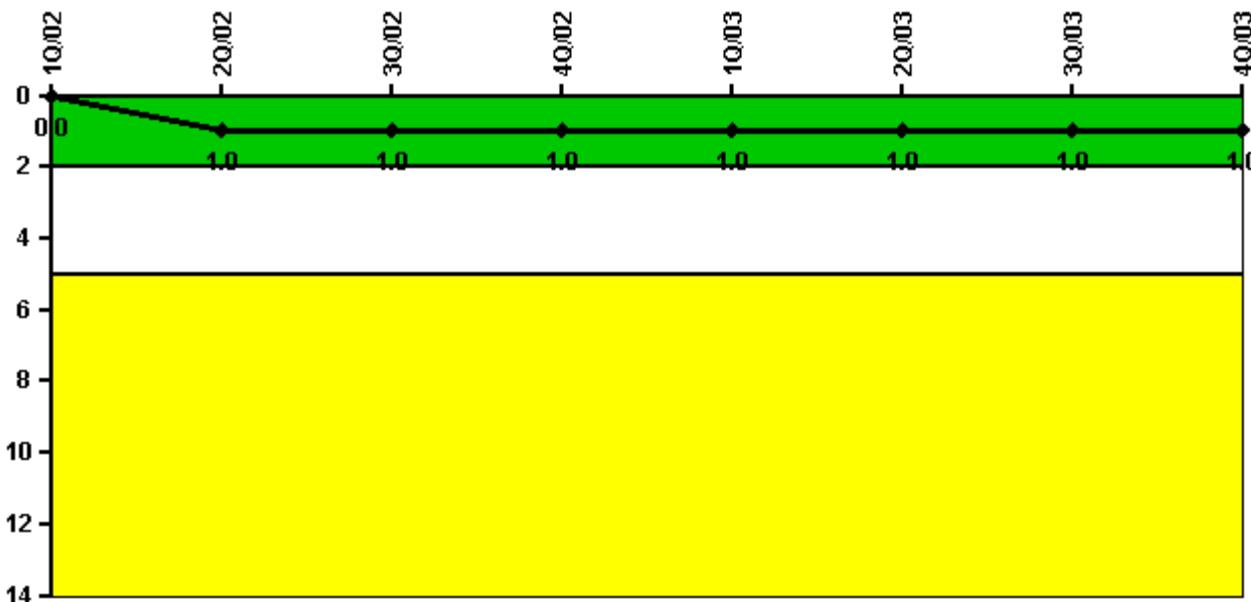


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Successful siren-tests	210	209	209	200	210	205	205	207
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	99.9%	99.8%	99.6%	98.6%	98.6%	98.1%	97.6%	98.5%

Licensee Comments: none

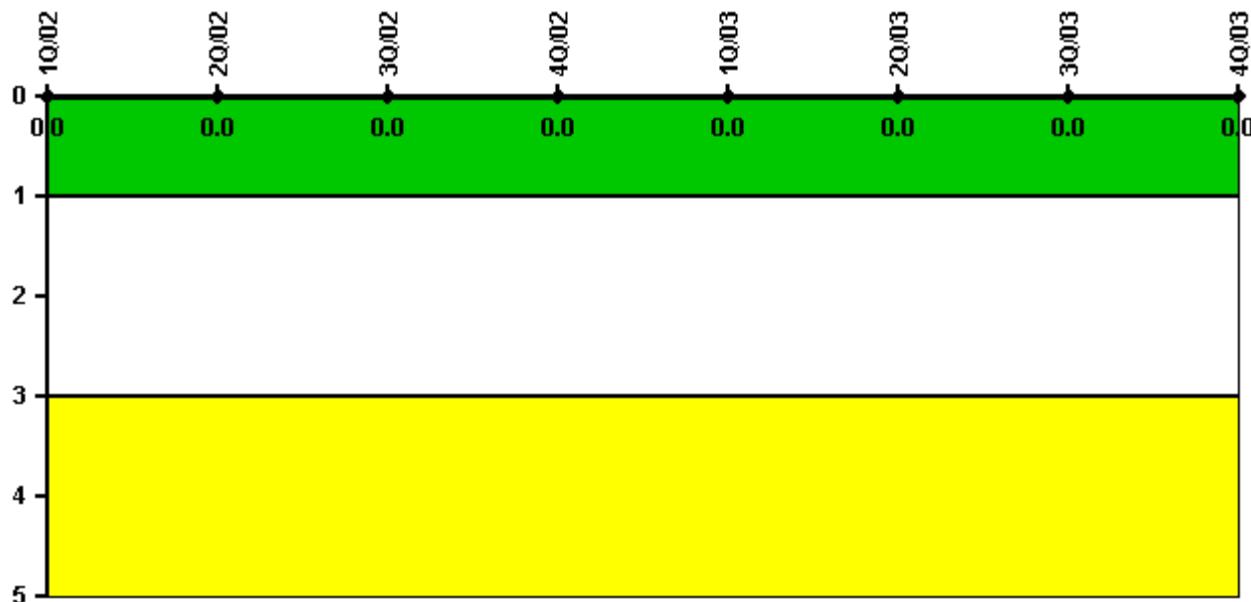
Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
High radiation area occurrences	0	1	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	1	0	0
Indicator value	0	1						

Licensee Comments: none

RETS/ODCM Radiological Effluent

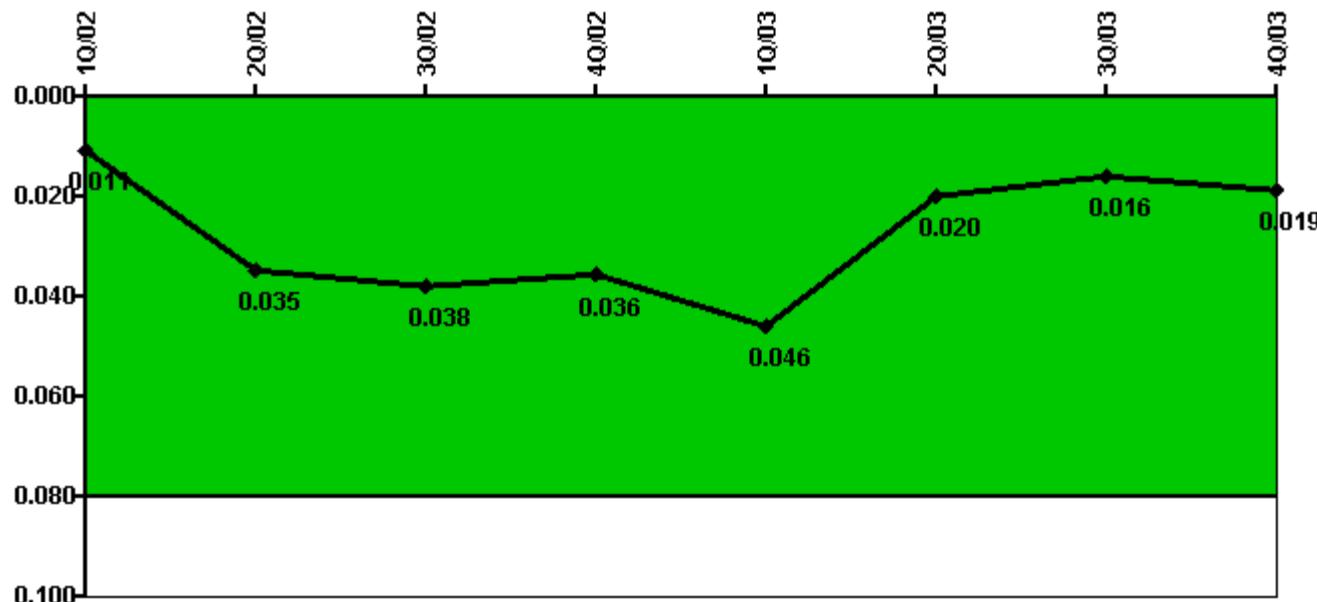
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

Notes

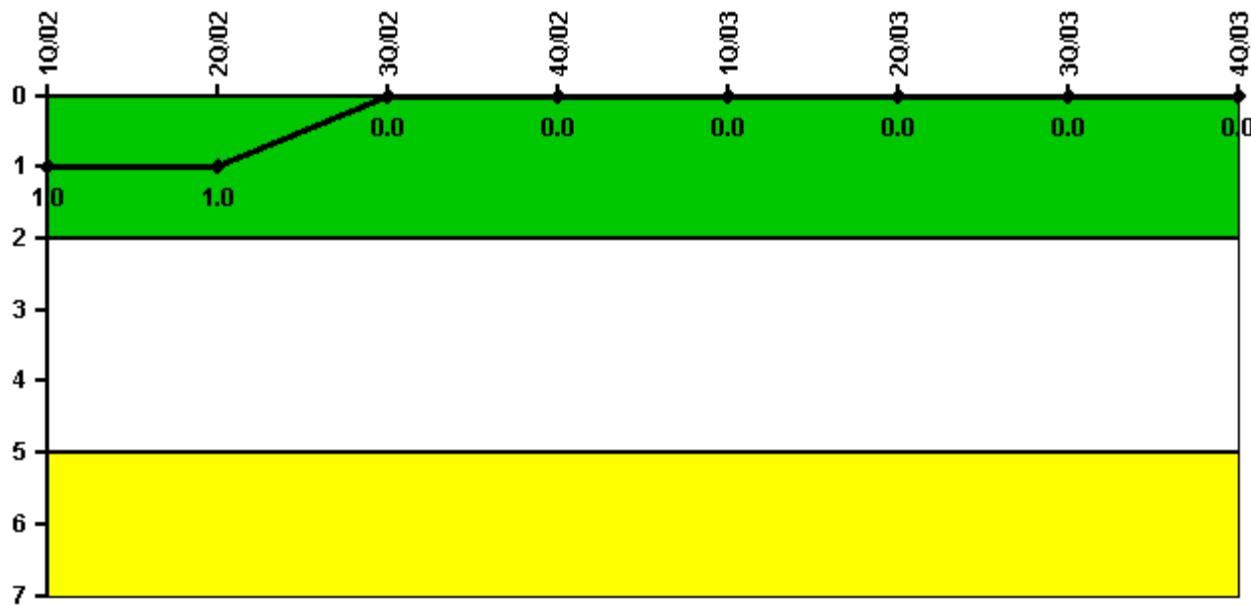
Protected Area Security Performance Index	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
IDS compensatory hours	28.20	680.50	111.70	52.10	263.40	25.70	25.20	139.90
CCTV compensatory hours	0	0	0	4.4	16.2	0	0	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.011	0.035	0.038	0.036	0.046	0.020	0.016	0.019

Licensee Comments:

4Q/03: In accordance with NEI 99-02, compensatory hours associated with scheduled equipment upgrades that are being performed and those compensatory hours for configuration issues associated with the equipment upgrades are excluded.

3Q/03: In accordance with NEI 99-02, compensatory hours associated with scheduled equipment upgrades that are being performed and those compensatory hours for configuration issues associated with the equipment upgrades are excluded.

Personnel Screening Program

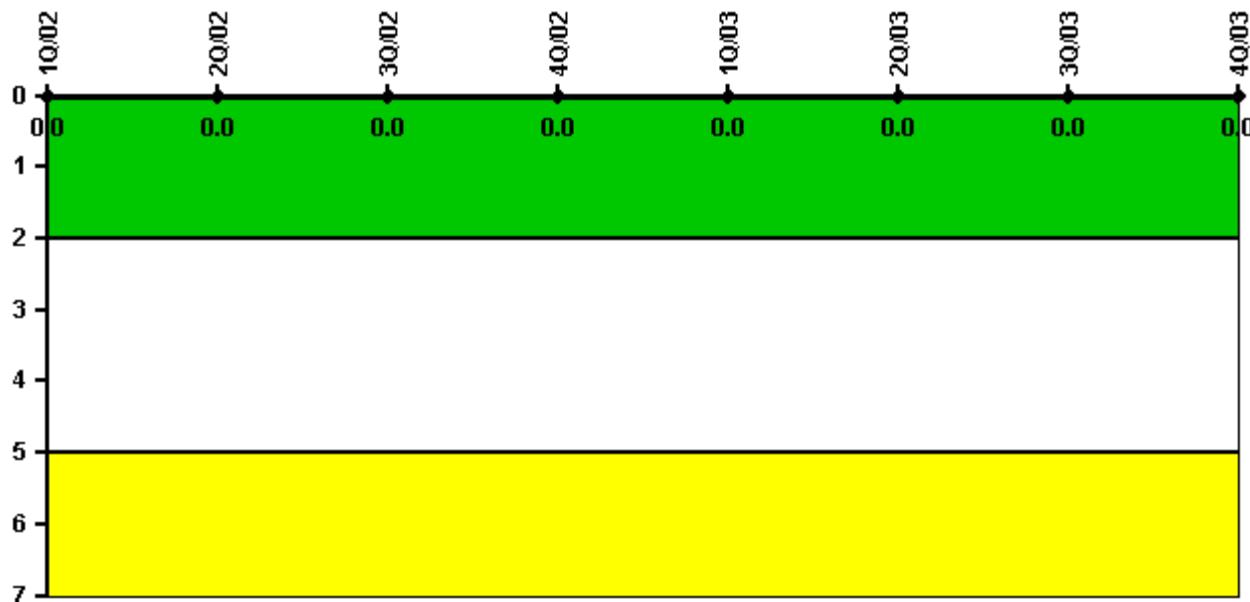


Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Program failures	0	0	0	0	0	0	0	0
Indicator value	1	1	0	0	0	0	0	0

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Program Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

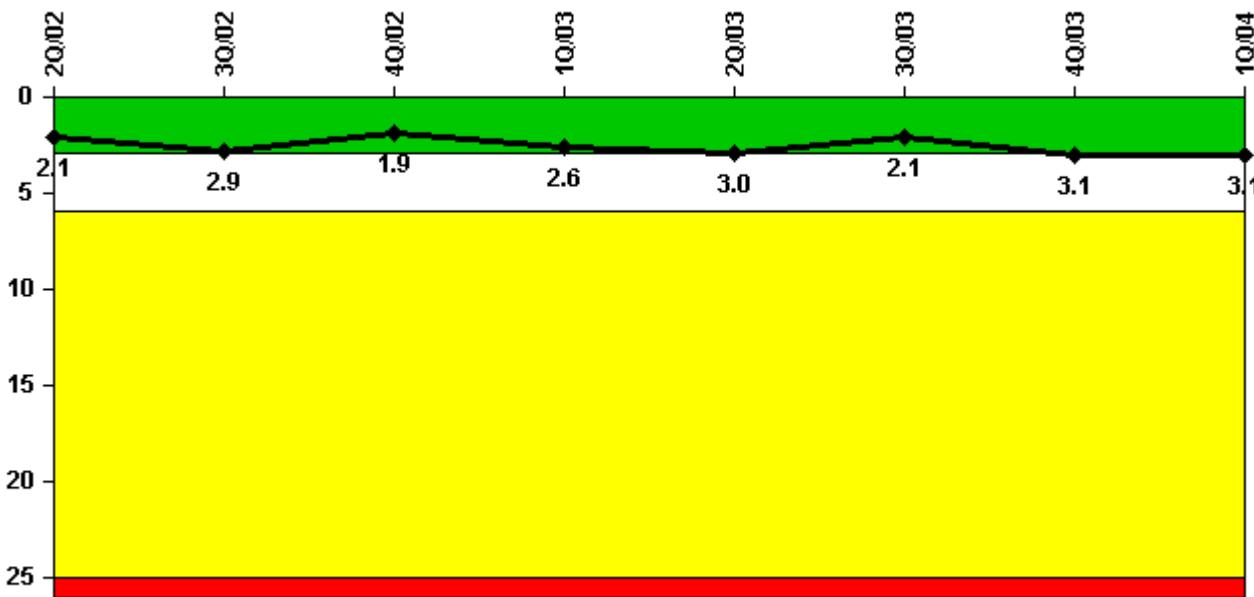


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Last Modified: January 23, 2004

D.C. Cook 2**1Q/2004 Performance Indicators**

Licensee's General Comments: none

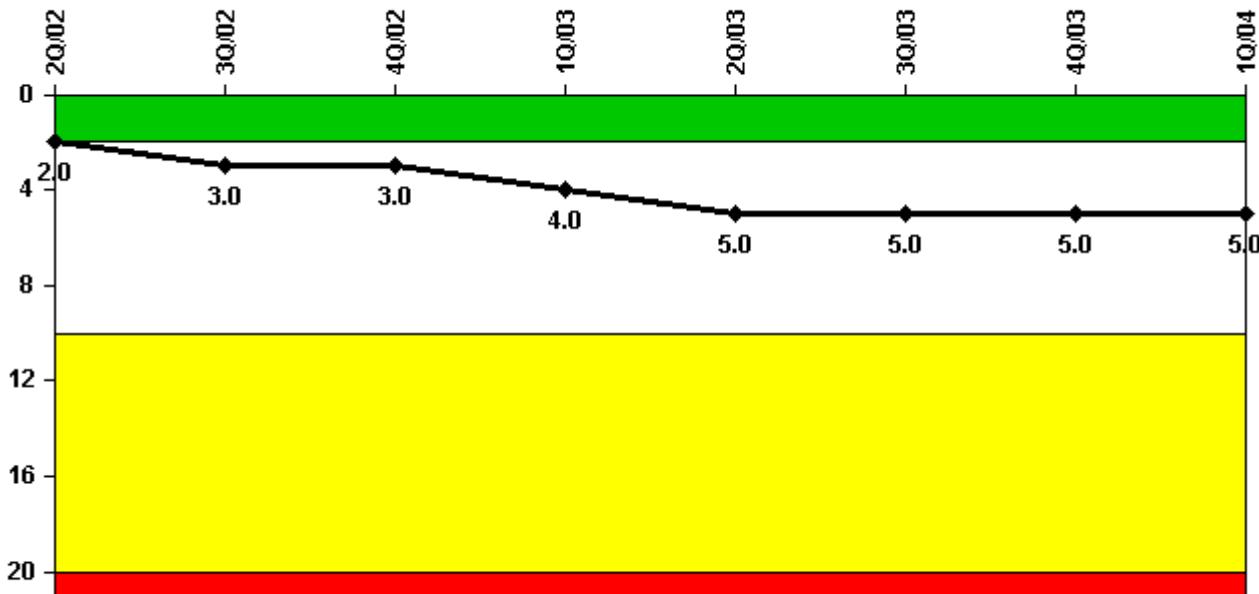
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned scrams	1.0	1.0	0	1.0	1.0	0	1.0	1.0
Critical hours	1965.5	2027.5	2209.0	1884.6	824.0	1832.1	2174.5	2052.7
Indicator value	2.1	2.9	1.9	2.6	3.0	2.1	3.1	3.1

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

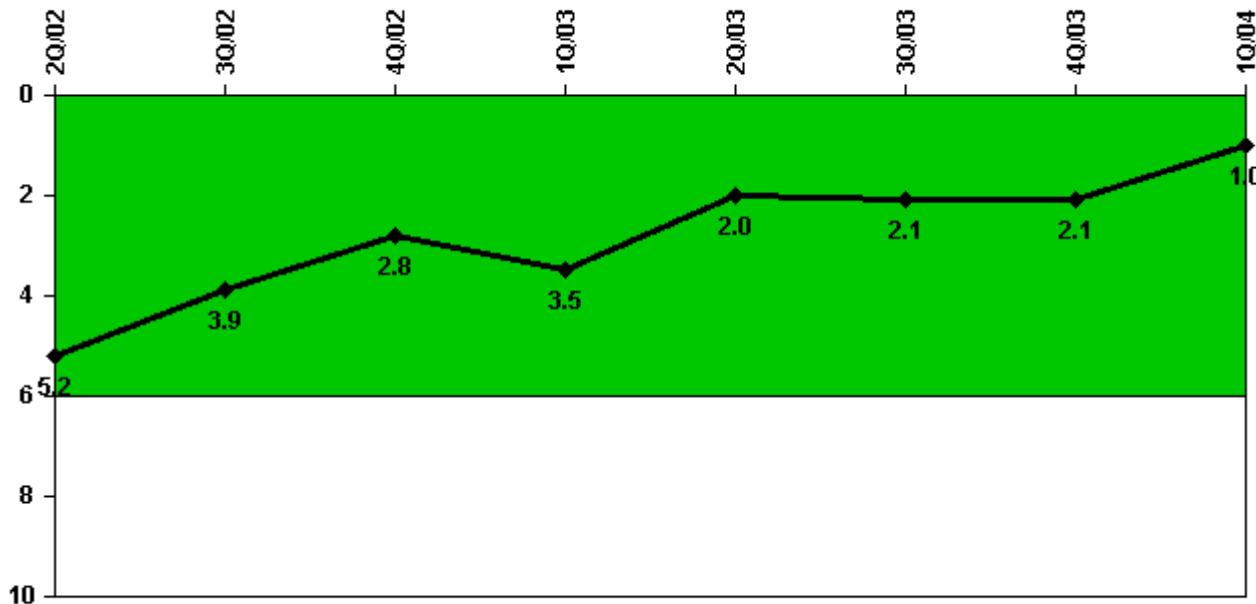
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Scrams	1.0	1.0	0	1.0	1.0	0	0	0
Indicator value	2.0	3.0	3.0	4.0	5.0	5.0	5.0	5.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



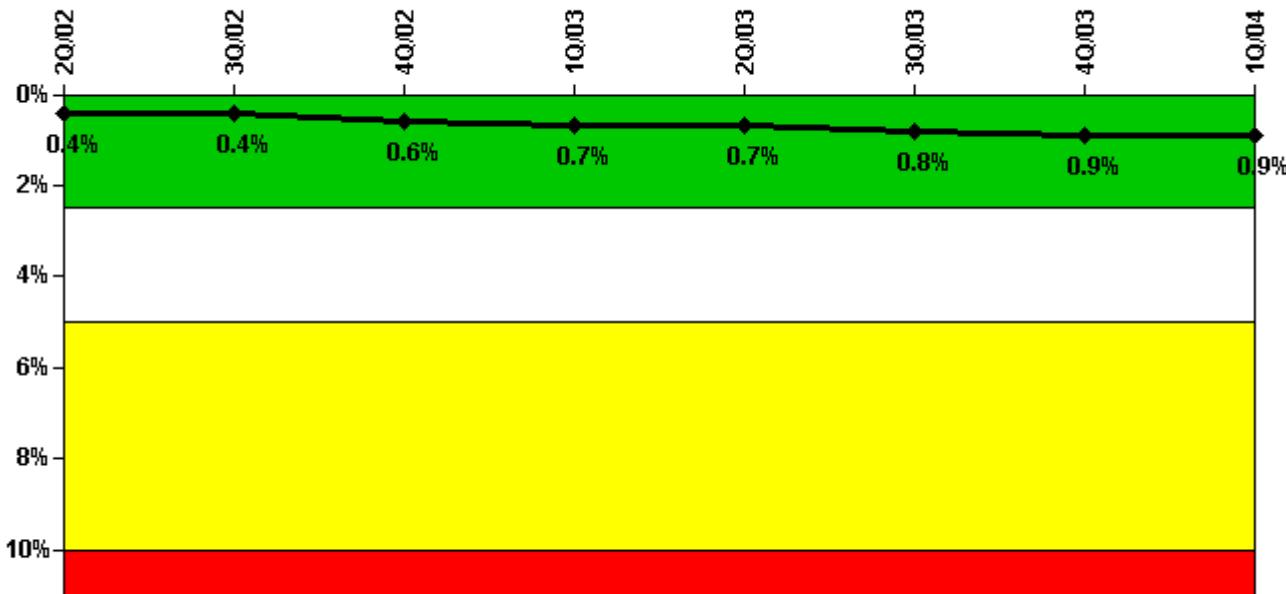
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned power changes	2.0	1.0	0	1.0	0	1.0	0	0
Critical hours	1965.5	2027.5	2209.0	1884.6	824.0	1832.1	2174.5	2052.7
Indicator value	5.2	3.9	2.8	3.5	2.0	2.1	2.1	1.0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



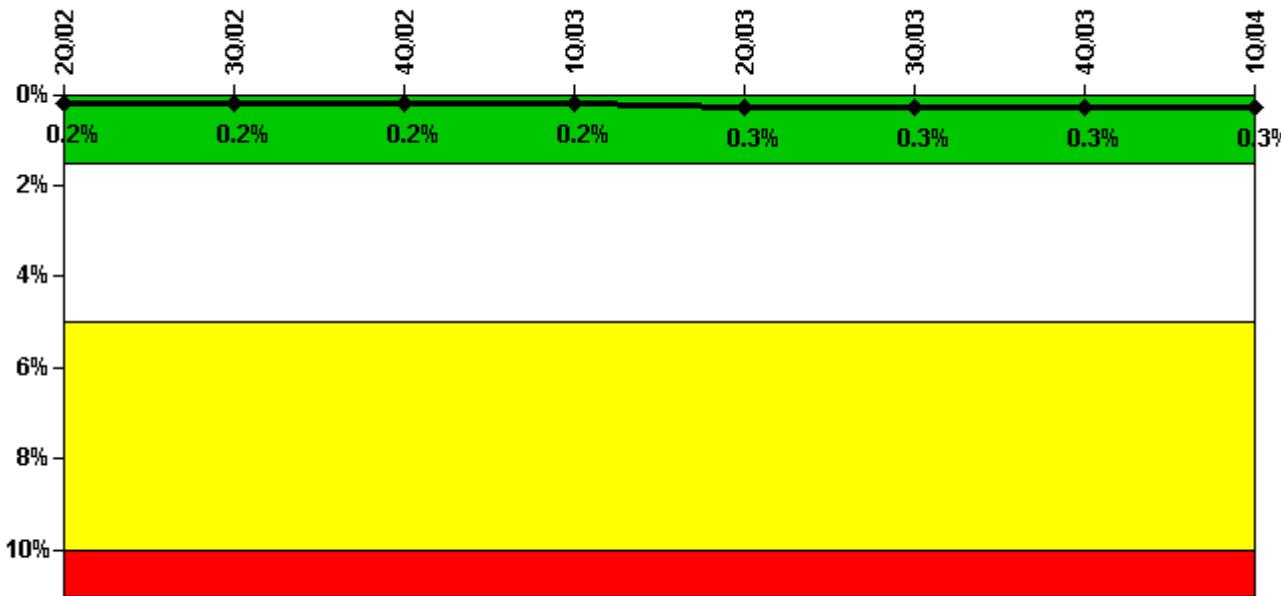
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	11.33	0.70	0.70	33.52	0.32	21.99	1.14	18.54
Unplanned unavailable hours	0	0	81.80	49.10	0	8.63	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2185.00	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	14.60	22.90	6.30	1.18	0.65	9.35	0.78	25.24
Unplanned unavailable hours	0	0	18.80	0	0	0	102.12	0.20
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1079.77	2208.00	2209.00	2184.00
Indicator value	0.4%	0.4%	0.6%	0.7%	0.7%	0.8%	0.9%	0.9%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



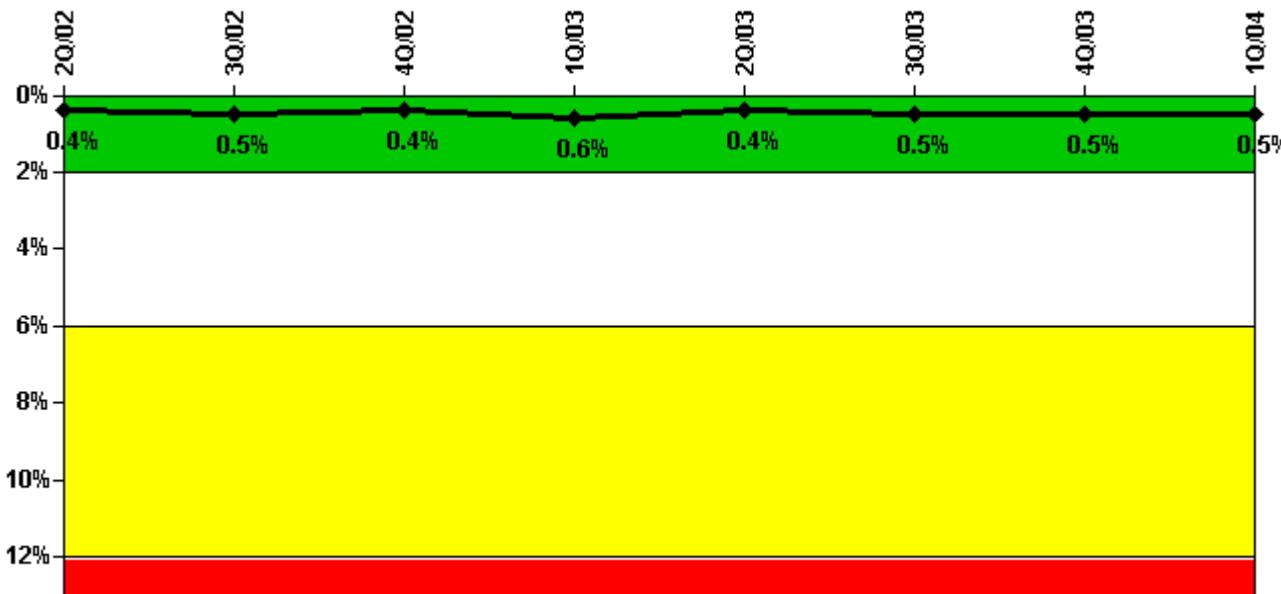
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)		2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1									
Planned unavailable hours		0	10.03	0	1.65	3.33	8.58	0	13.35
Unplanned unavailable hours		0	0	0	0	64.58	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2183.00	2118.98	2209.00	2160.00	927.64	2096.37	2209.00	2184.00
Train 2									
Planned unavailable hours		0	11.82	0	1.35	10.97	0	3.53	0
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2183.00	2208.00	2209.00	2130.15	1007.37	1886.30	2209.00	2184.00
Train 3									
Planned unavailable hours		0	0	23.15	8.57	0	0	0	0
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2183.00	2118.98	2209.00	2130.15	912.07	1886.30	2209.00	2184.00
Train 4									
Planned unavailable hours		5.95	0	0	1.23	0	9.08	0	0
Unplanned unavailable hours		0	18.77	0	0	0	0	13.42	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2183.00	2118.98	2209.00	2130.15	912.07	1886.30	2209.00	2184.00
Indicator value		0.2%	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



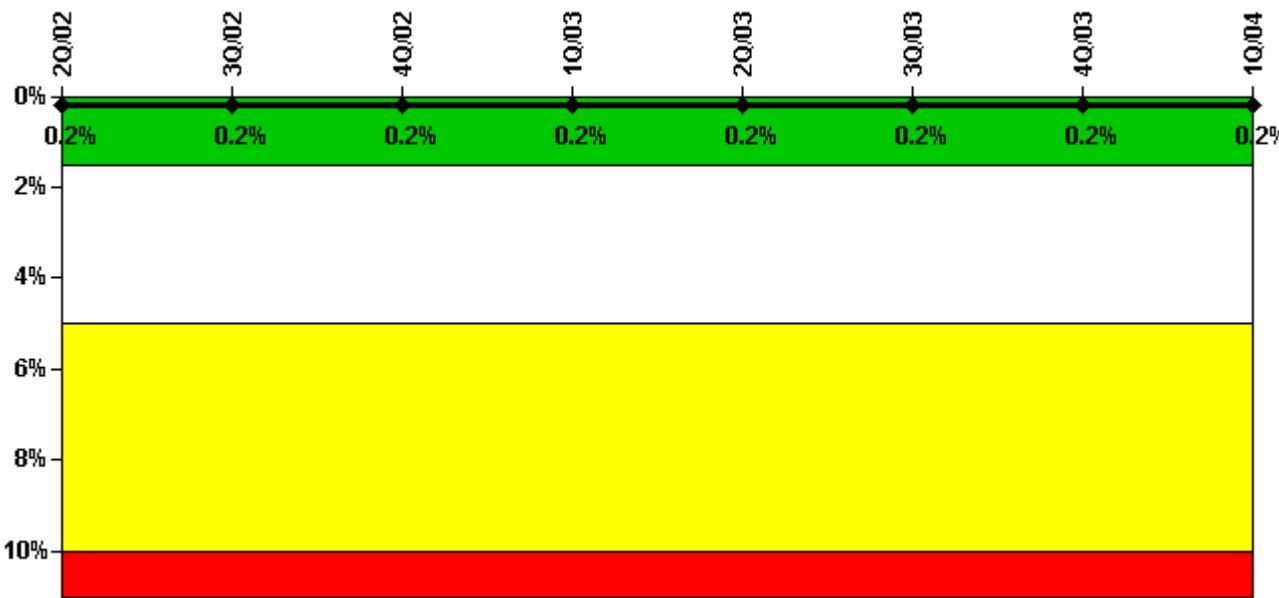
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)		2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1									
Planned unavailable hours		0	6.85	0	36.12	0	6.05	4.62	0
Unplanned unavailable hours		0	27.33	0	0	0	0	0.05	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2183.00	2118.98	2209.00	2132.20	912.07	1886.30	2209.00	2184.00
Train 2									
Planned unavailable hours		9.23	9.05	0	29.38	0	0	0	5.53
Unplanned unavailable hours		6.08	0	0	59.48	0	0	0.07	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2183.00	2118.98	2209.00	2131.20	912.07	1886.30	2209.00	2184.00
Train 3									
Planned unavailable hours		0	23.93	0	9.03	0	0	20.90	0
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2183.00	2118.98	2209.00	2131.20	912.07	1886.30	2209.00	2184.00
Indicator value		0.4%	0.5%	0.4%	0.6%	0.4%	0.5%	0.5%	0.5%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

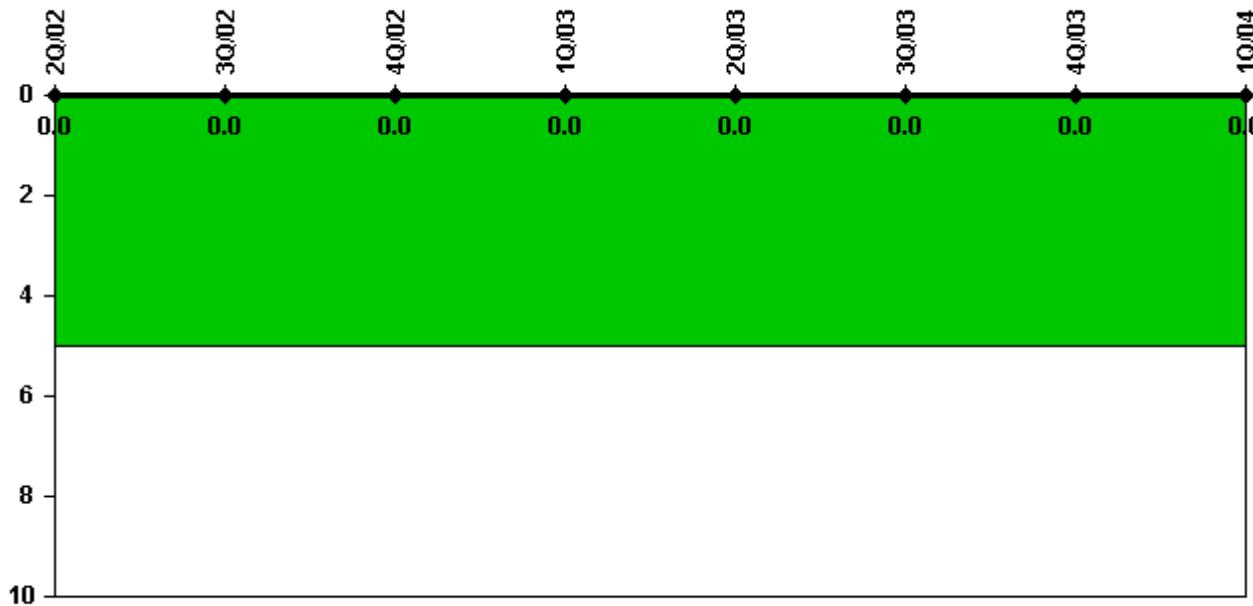


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0	8.77	8.05	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1838.30	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	0	10.20	6.03	0	0	10.67	14.18	0
Unplanned unavailable hours	0	0	0	0	0	0	17.45	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1838.30	2208.00	2209.00	2184.00
Indicator value	0.2%							

Licensee Comments: none

Safety System Functional Failures (PWR)

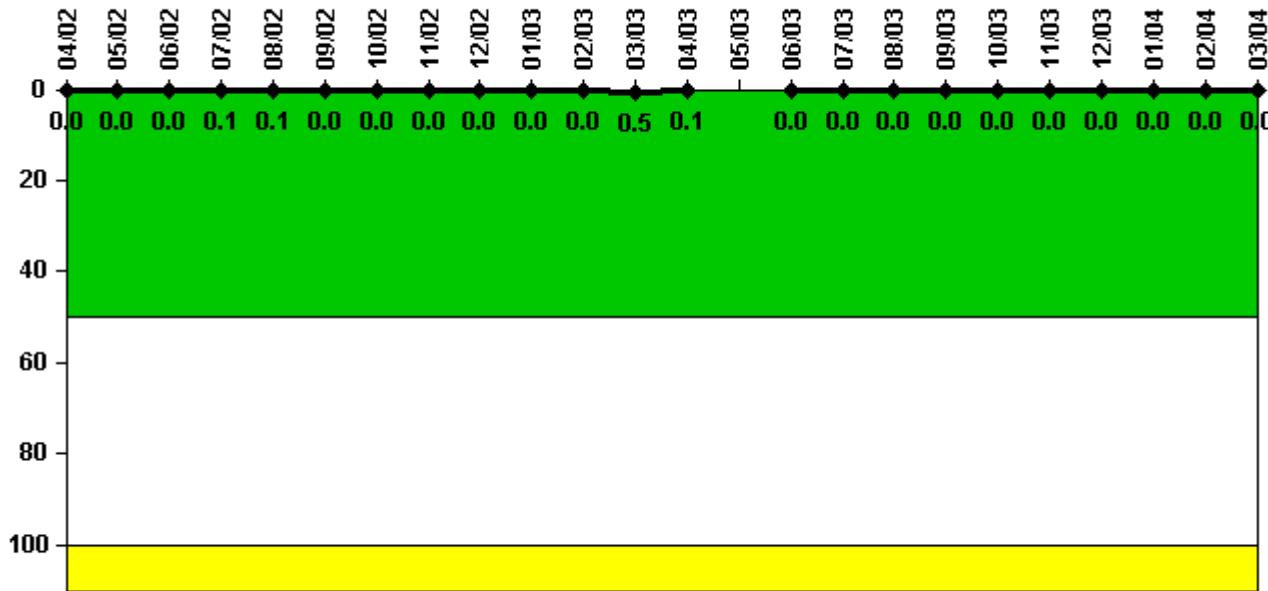
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

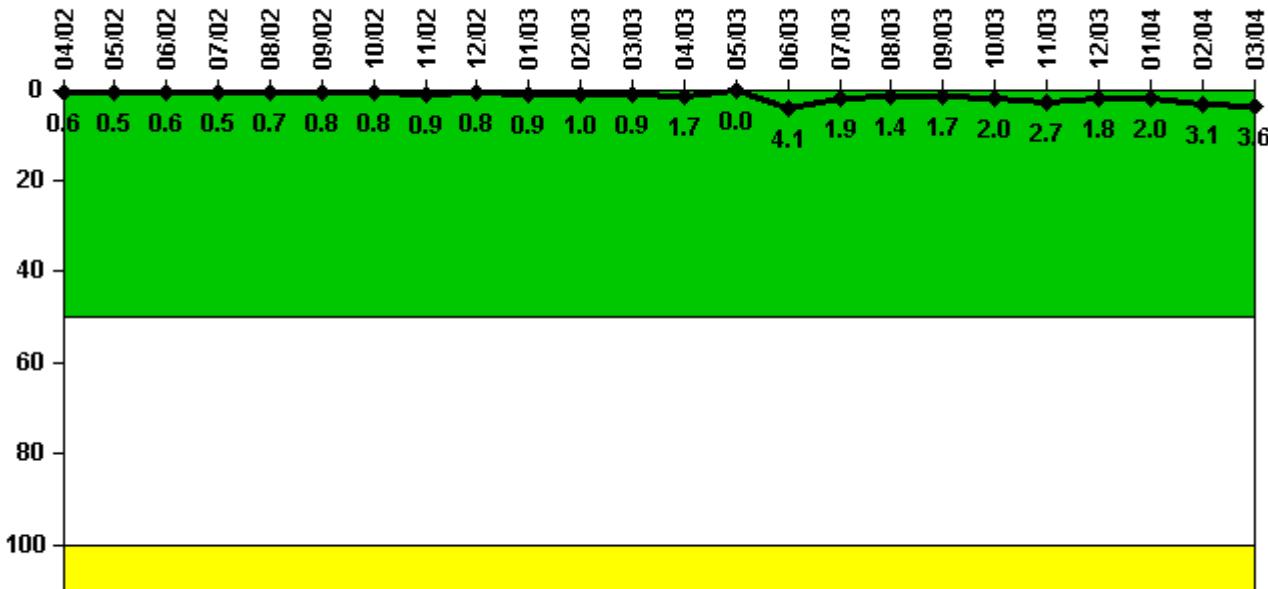
Notes

Reactor Coolant System Activity	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum activity	0.000242	0.000214	0.000238	0.001100	0.000641	0.000316	0.000359	0.000324	0.000313	0.000313	0.000368	0.004970
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0.1	0.1	0	0	0	0	0	0	0.5

Reactor Coolant System Activity	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04
Maximum activity	0.001070	N/A	0.000159	0.000217	0.000175	0.000188	0.000196	0.000201	0.000215	0.000219	0.000242	0.000243
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	N/A	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



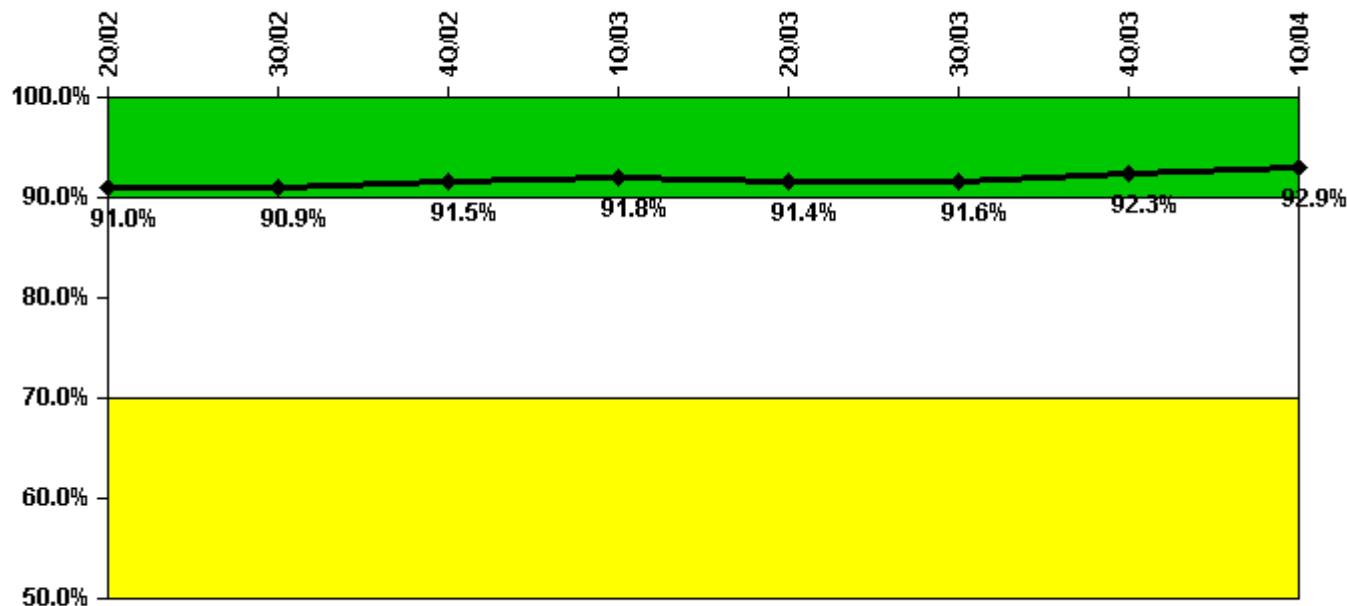
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum leakage	0.071	0.057	0.064	0.058	0.080	0.086	0.090	0.100	0.090	0.096	0.110	0.097
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.6	0.5	0.6	0.5	0.7	0.8	0.8	0.9	0.8	0.9	1.0	0.9

Reactor Coolant System Leakage	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04
Maximum leakage	0.184	0	0.450	0.211	0.152	0.190	0.220	0.294	0.193	0.225	0.336	0.399
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	1.7	0	4.1	1.9	1.4	1.7	2.0	2.7	1.8	2.0	3.1	3.6

Licensee Comments: none

Drill/Exercise Performance

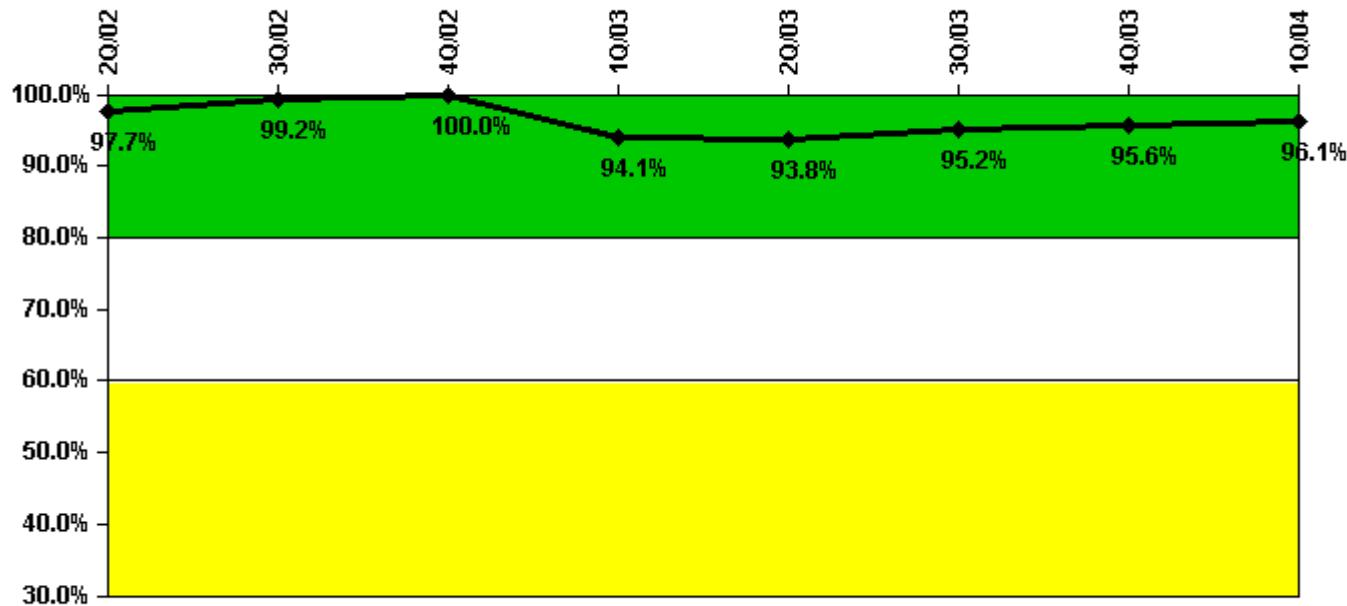
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Successful opportunities	24.0	140.0	149.0	85.0	30.0	176.0	83.0	132.0
Total opportunities	34.0	150.0	159.0	87.0	33.0	192.0	90.0	137.0
Indicator value	91.0%	90.9%	91.5%	91.8%	91.4%	91.6%	92.3%	92.9%

Licensee Comments: none

ERO Drill Participation



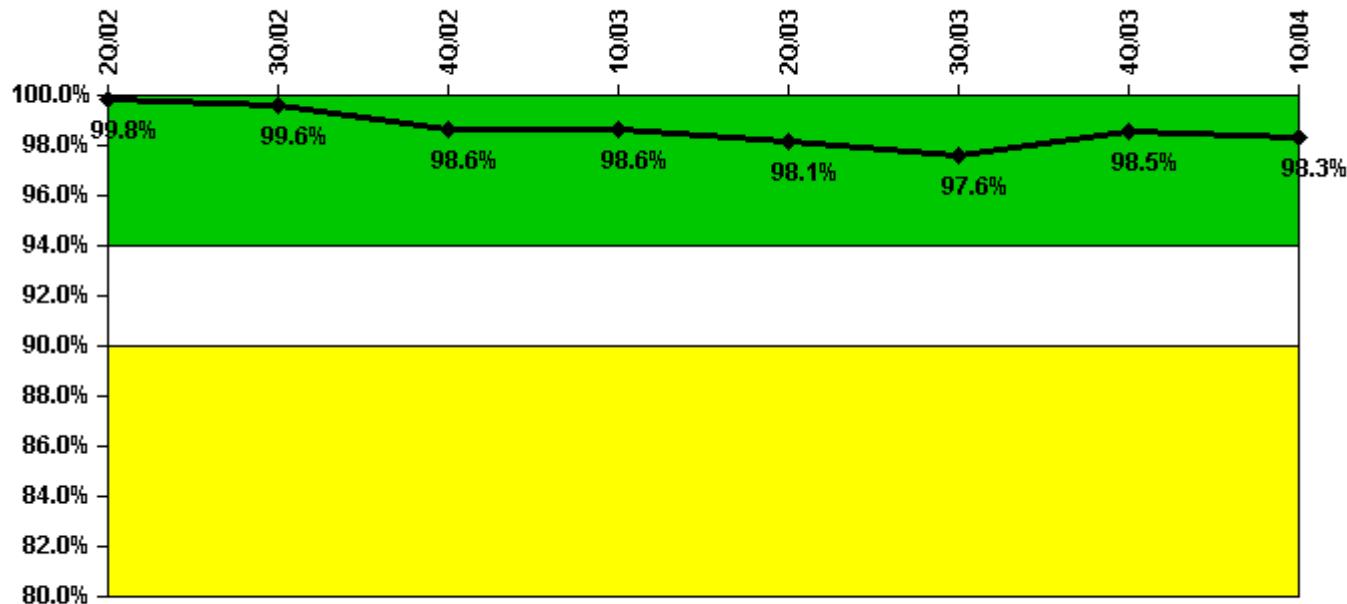
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Participating Key personnel	125.0	130.0	131.0	143.0	135.0	138.0	129.0	124.0
Total Key personnel	128.0	131.0	131.0	152.0	144.0	145.0	135.0	129.0
Indicator value	97.7%	99.2%	100.0%	94.1%	93.8%	95.2%	95.6%	96.1%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Successful siren-tests	209	209	200	210	205	205	207	209
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	99.8%	99.6%	98.6%	98.6%	98.1%	97.6%	98.5%	98.3%

Licensee Comments: none

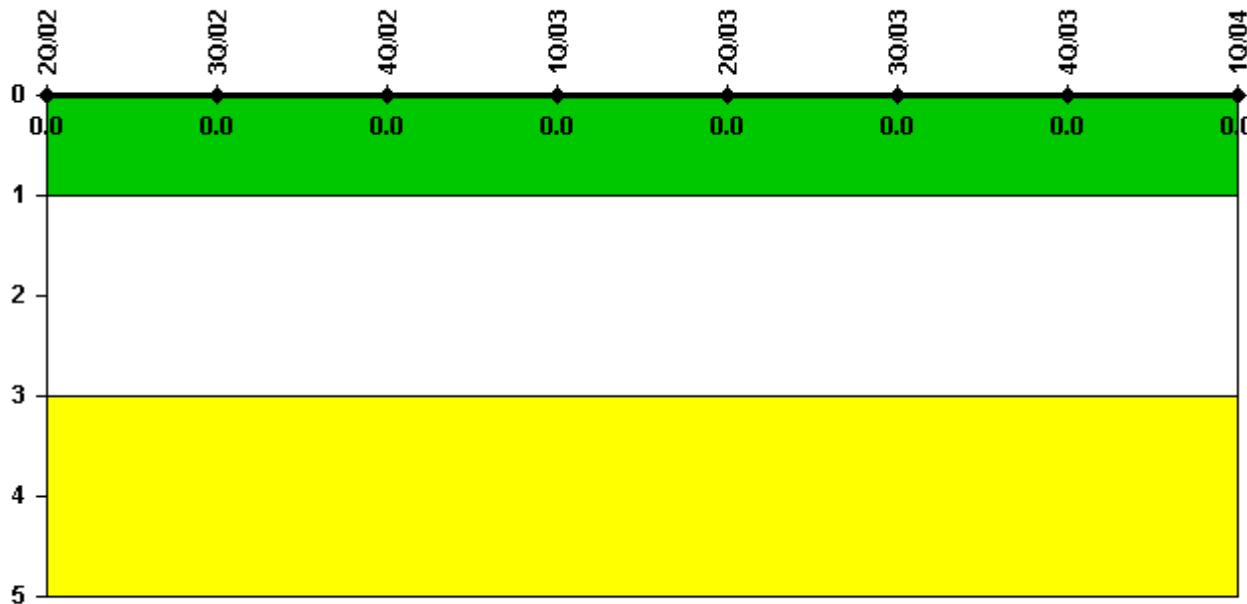
Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
High radiation area occurrences	1	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	1	0	0	0
Indicator value	1							

Licensee Comments: none

RETS/ODCM Radiological Effluent

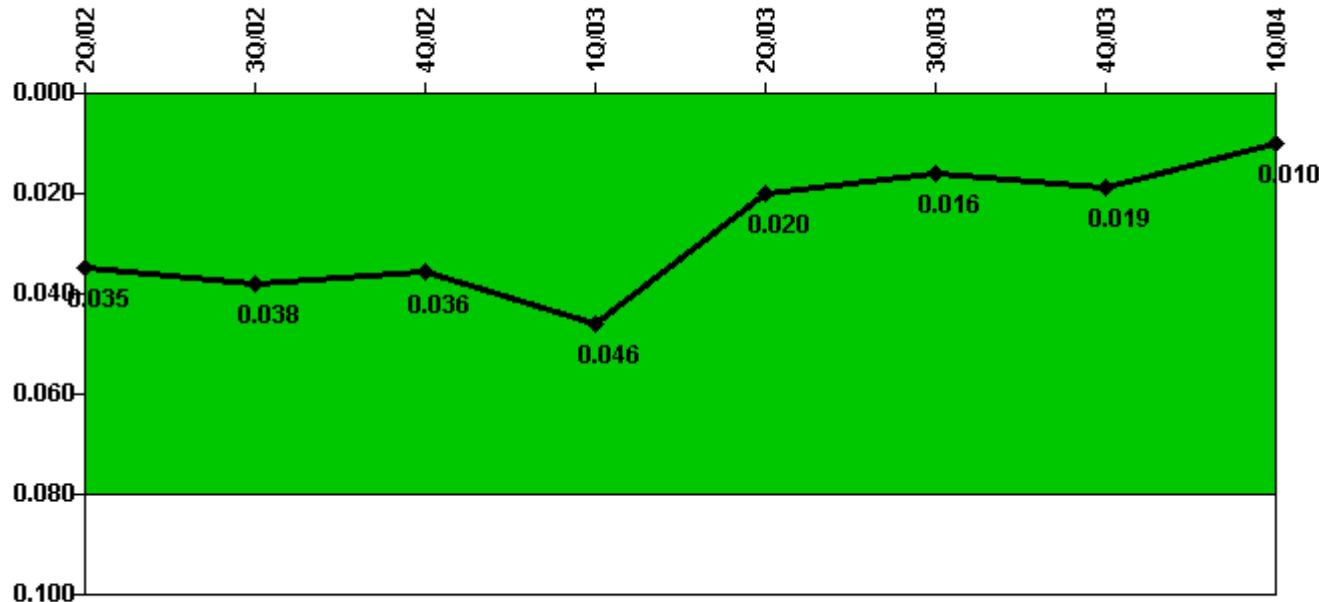
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Protected Area Security Performance Index



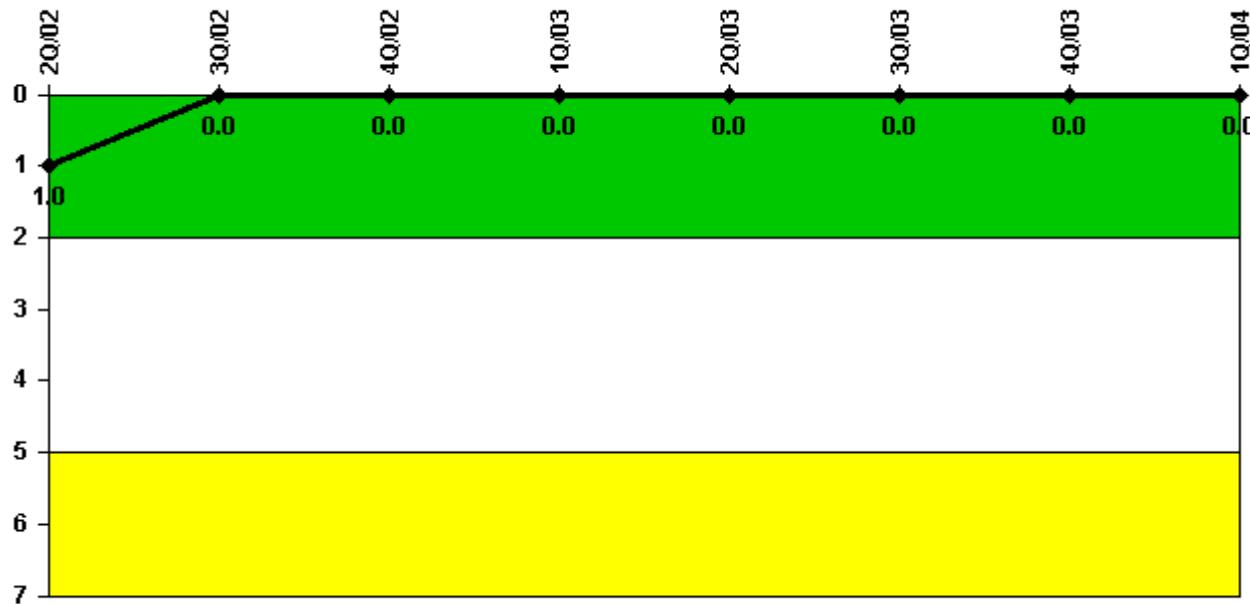
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
IDS compensatory hours	680.50	111.70	52.10	263.40	25.70	25.20	139.90	94.90
CCTV compensatory hours	0	0	4.4	16.2	0	0	0	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.60
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.1
Index Value	0.035	0.038	0.036	0.046	0.020	0.016	0.019	0.010

Licensee Comments:

1Q/04: In accordance with NEI 99-02, compensatory hours associated with scheduled equipment upgrades that are being performed and those compensatory hours for configuration issues associated with equipment upgrades are excluded.

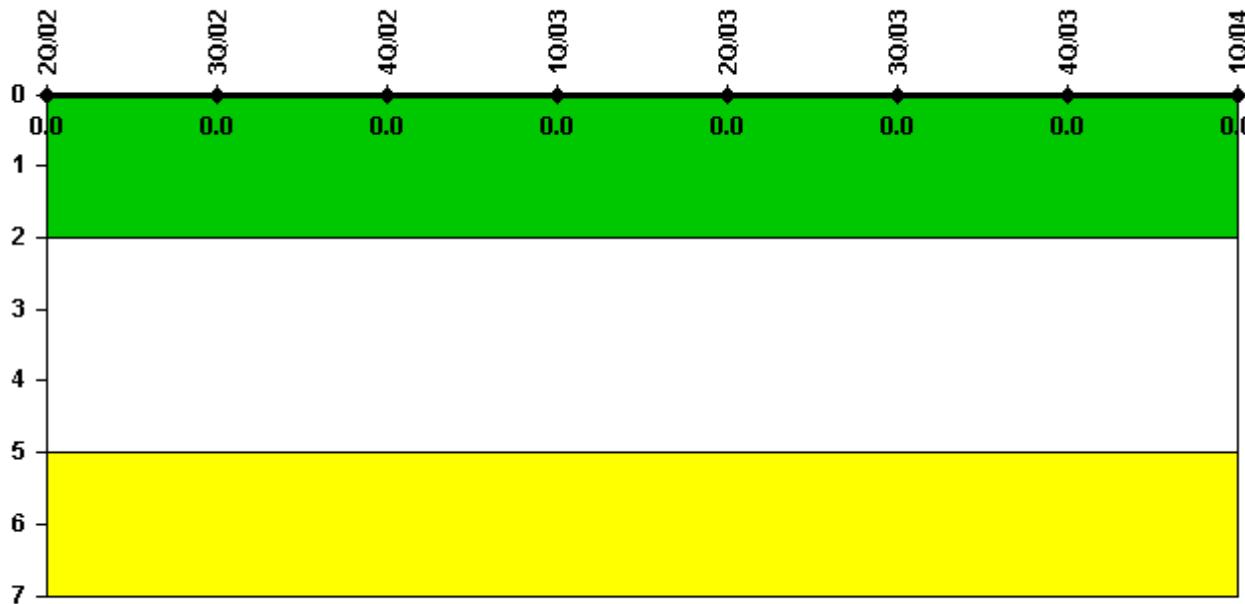
Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Program failures	0	0	0	0	0	0	0	0
Indicator value	1	0	0	0	0	0	0	0

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Program Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

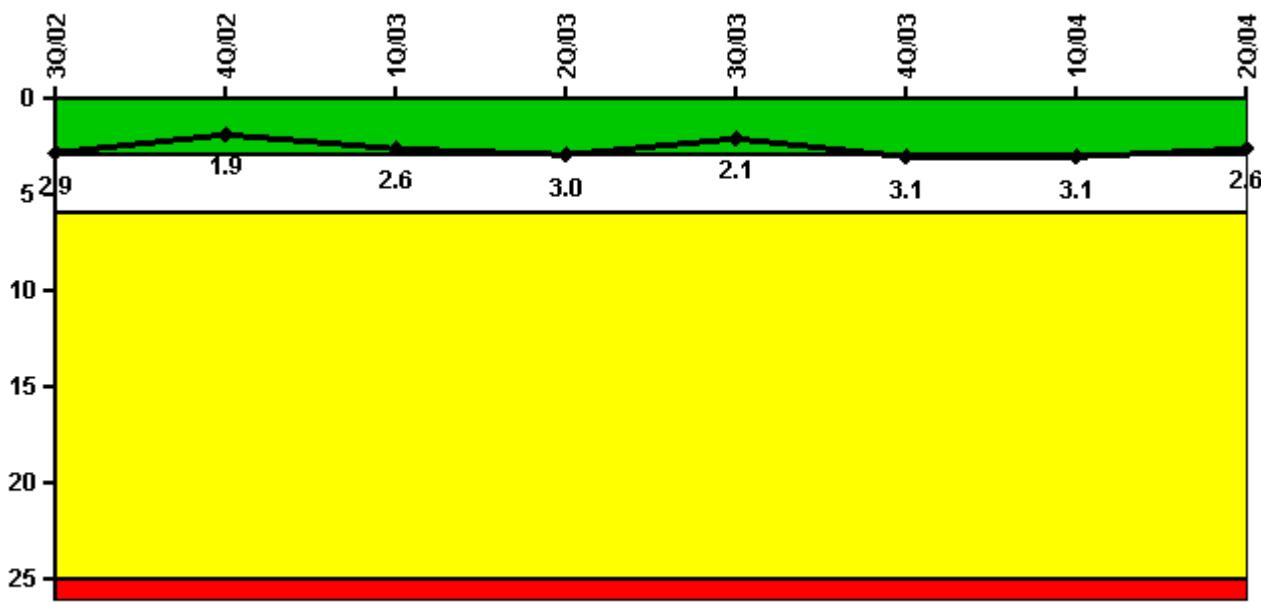


[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

Last Modified: April 22, 2004

D.C. Cook 2**2Q/2004 Performance Indicators**

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

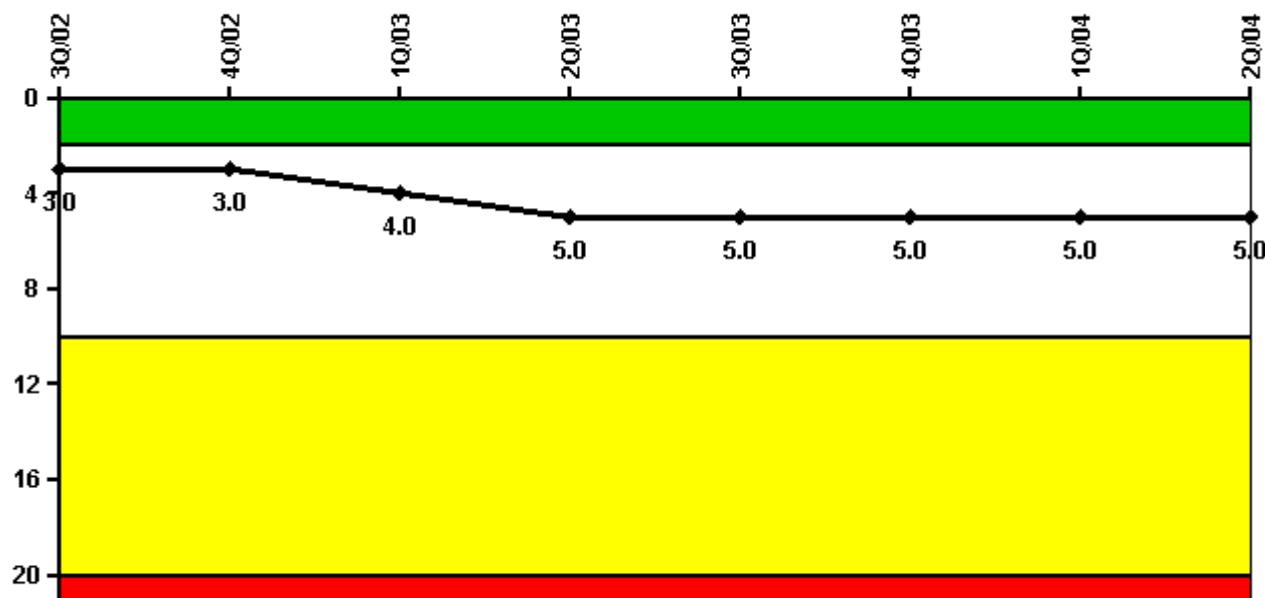
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned scrams	1.0	0	1.0	1.0	0	1.0	1.0	1.0
Critical hours	2027.5	2209.0	1884.6	824.0	1832.1	2174.5	2052.7	2059.3
Indicator value	2.9	1.9	2.6	3.0	2.1	3.1	3.1	2.6

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



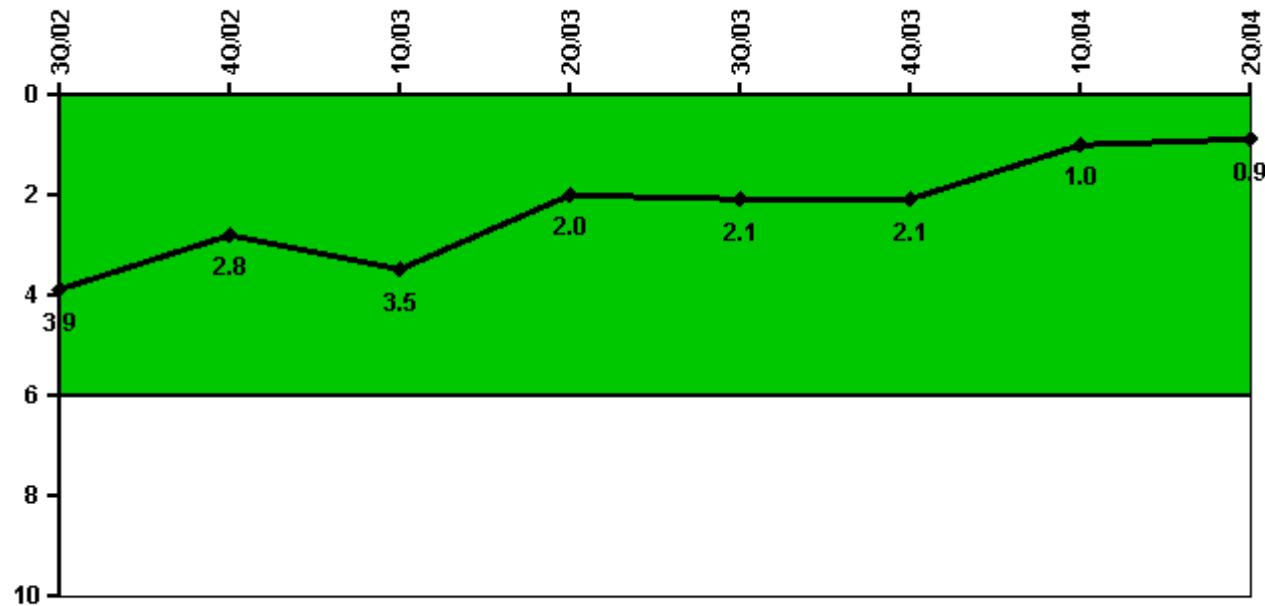
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Scrams	1.0	0	1.0	1.0	0	0	0	0
Indicator value	3.0	3.0	4.0	5.0	5.0	5.0	5.0	5.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



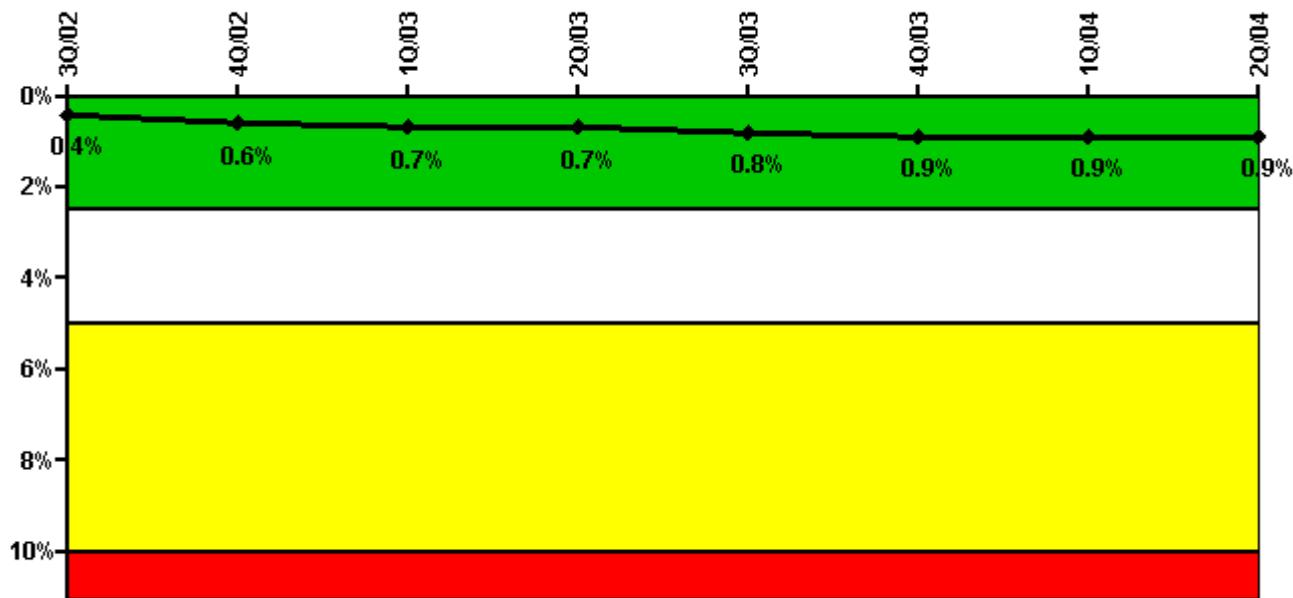
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned power changes	1.0	0	1.0	0	1.0	0	0	0
Critical hours	2027.5	2209.0	1884.6	824.0	1832.1	2174.5	2052.7	2059.3
Indicator value	3.9	2.8	3.5	2.0	2.1	2.1	1.0	0.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



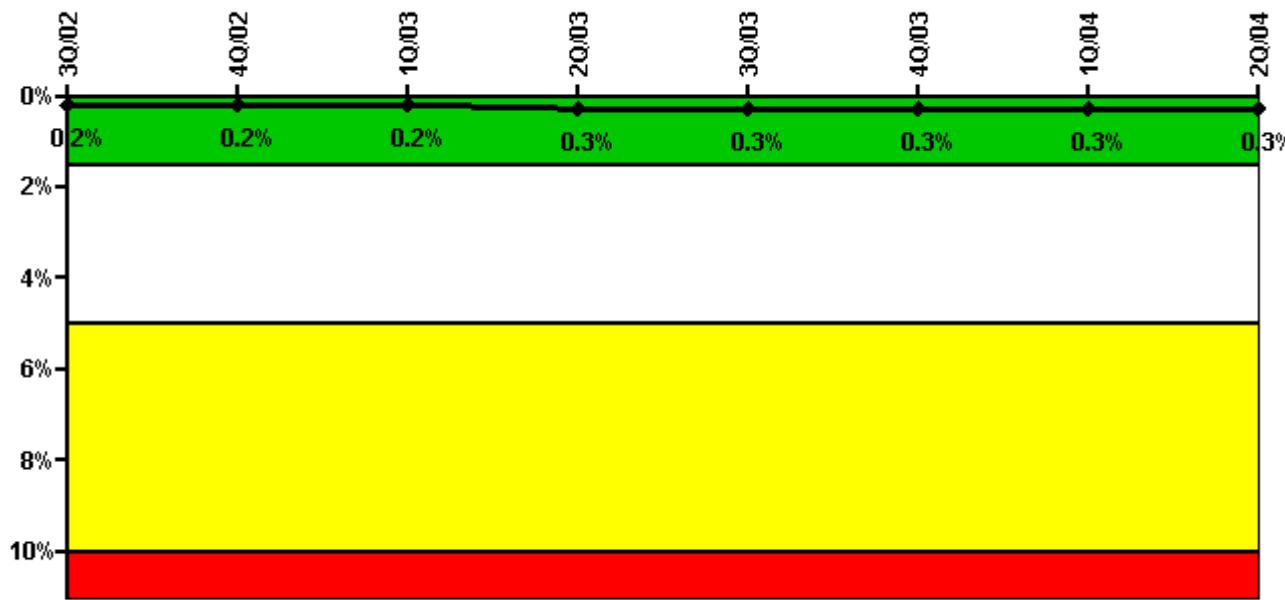
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	0.70	0.70	33.52	0.32	21.99	1.14	18.54	16.29
Unplanned unavailable hours	0	81.80	49.10	0	8.63	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2185.00	2208.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	22.90	6.30	1.18	0.65	9.35	4.91	25.24	0.97
Unplanned unavailable hours	0	18.80	0	0	0	102.12	0.20	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	1079.77	2208.00	2209.00	2184.00	2183.00
Indicator value	0.4%	0.6%	0.7%	0.7%	0.8%	0.9%	0.9%	0.9%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

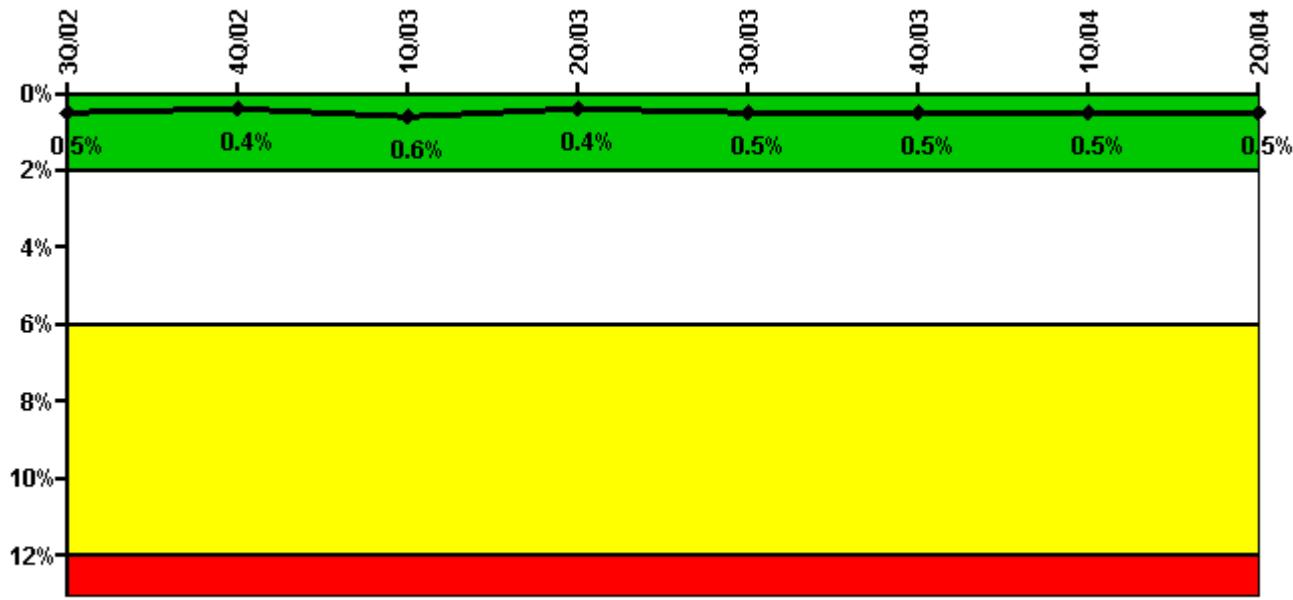


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)								
	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	10.03	0	1.65	3.33	8.58	0	13.35	0
Unplanned unavailable hours	0	0	0	64.58	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2118.98	2209.00	2160.00	927.64	2096.37	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	11.82	0	1.35	10.97	0	3.53	0	25.58
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2130.15	1007.37	1886.30	2209.00	2184.00	2183.00
Train 3								
Planned unavailable hours	0	23.15	8.57	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2118.98	2209.00	2130.15	912.07	1886.30	2209.00	2184.00	2183.00
Train 4								
Planned unavailable hours	0	0	1.23	0	9.08	0	0	20.47
Unplanned unavailable hours	18.77	0	0	0	0	13.42	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2118.98	2209.00	2130.15	912.07	1886.30	2209.00	2184.00	2183.00
Indicator value	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%	0.3%	0.3%

Safety System Unavailability, Heat Removal System (AFW)



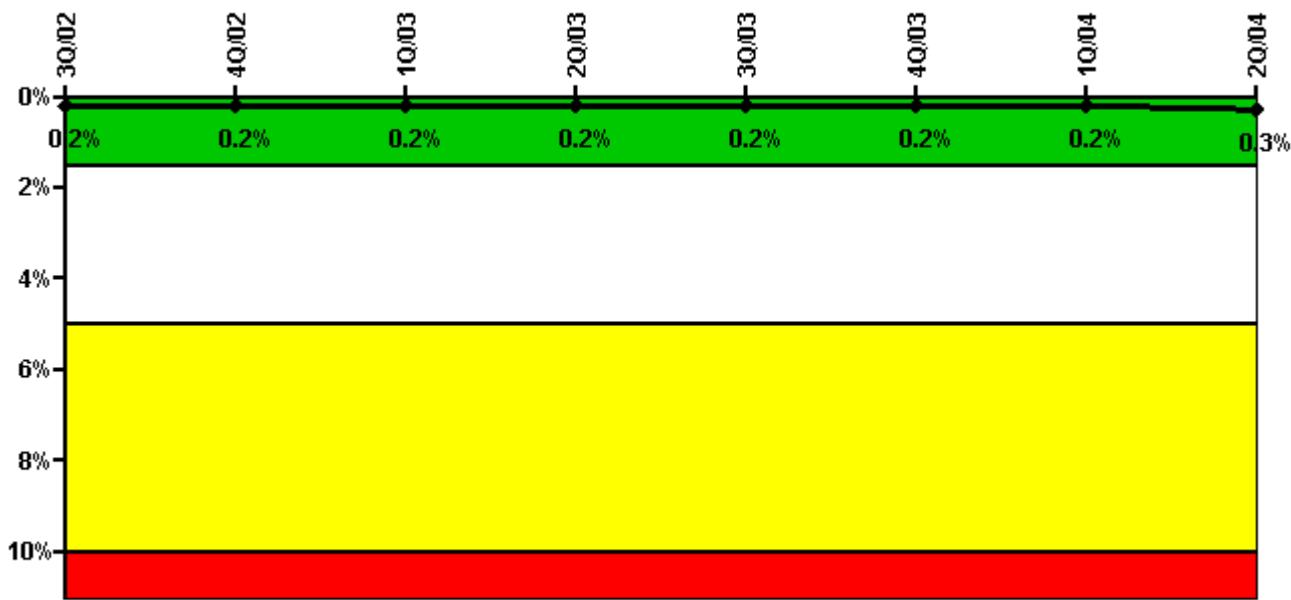
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	6.85	0	36.12	0	6.05	4.62	0	11.75
Unplanned unavailable hours	27.33	0	0	0	0	0.05	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2118.98	2209.00	2132.20	912.07	1886.30	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	9.05	0	29.38	0	0	0	5.53	0
Unplanned unavailable hours	0	0	59.48	0	0	0.07	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2118.98	2209.00	2131.20	912.07	1886.30	2209.00	2184.00	2183.00
Train 3								
Planned unavailable hours	23.93	0	9.03	0	0	20.90	0	16.00
Unplanned unavailable hours	0	0	0	0	0	0	0	8.35
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2118.98	2209.00	2131.20	912.07	1886.30	2209.00	2184.00	2183.00
Indicator value	0.5%	0.4%	0.6%	0.4%	0.5%	0.5%	0.5%	0.5%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

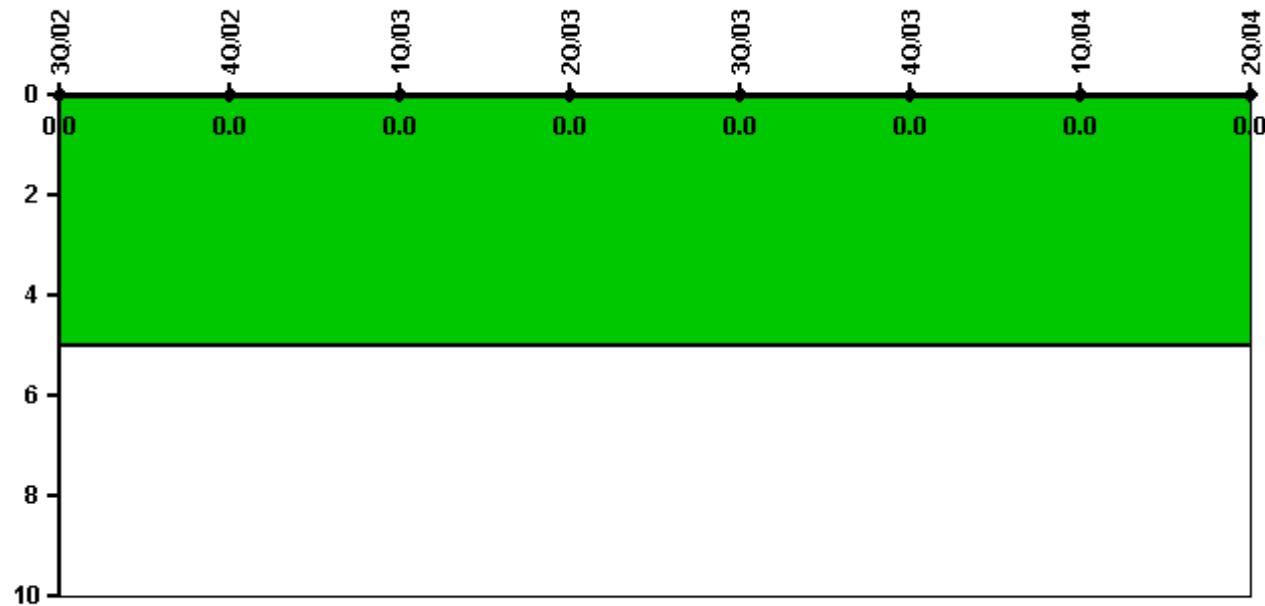


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System		3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1									
Planned unavailable hours		8.77	8.05	0	0	0	0	0	17.28
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2208.00	2209.00	2160.00	1838.30	2208.00	2209.00	2184.00	2183.00
Train 2									
Planned unavailable hours		10.20	6.03	0	0	10.67	14.18	0	8.15
Unplanned unavailable hours		0	0	0	0	0	17.45	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2208.00	2209.00	2160.00	1838.30	2208.00	2209.00	2184.00	2183.00
Indicator value		0.2%	0.3%						

Licensee Comments: none

Safety System Functional Failures (PWR)

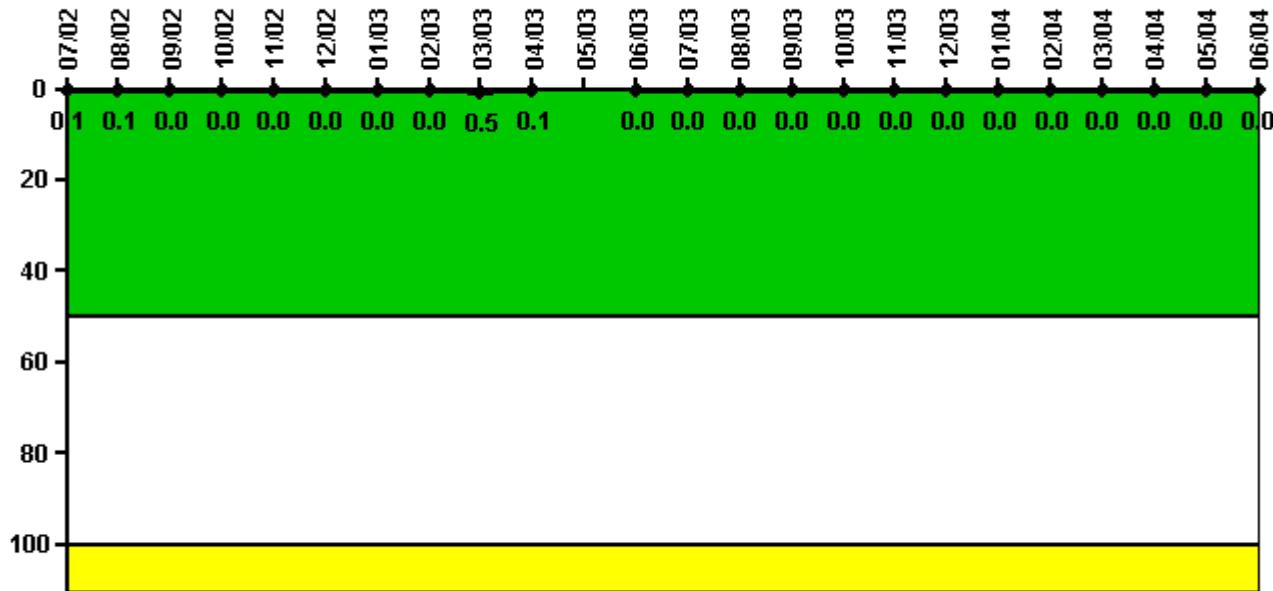
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

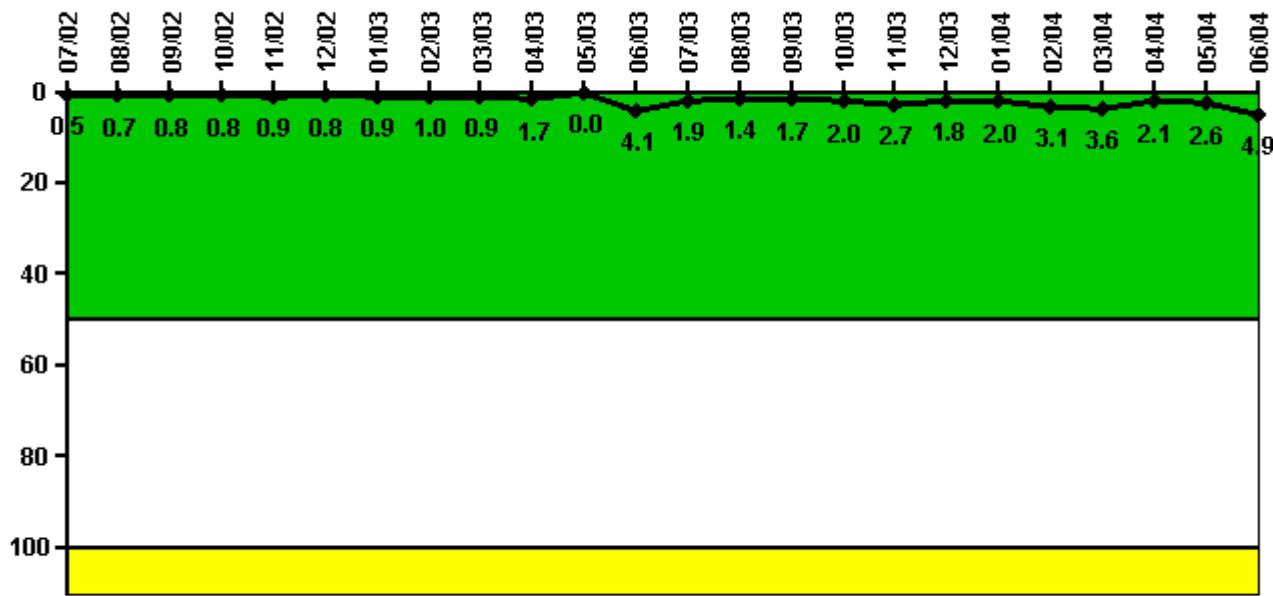
Notes

Reactor Coolant System Activity	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum activity	0.001100	0.000641	0.000316	0.000359	0.000324	0.000313	0.000313	0.000368	0.004970	0.001070	N/A	0.000159
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0	0	0	0	0	0	0.5	0.1	N/A	0

Reactor Coolant System Activity	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum activity	0.000217	0.000175	0.000188	0.000196	0.000201	0.000215	0.000219	0.000242	0.000243	0.000385	0.000247	0.000261
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0											

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

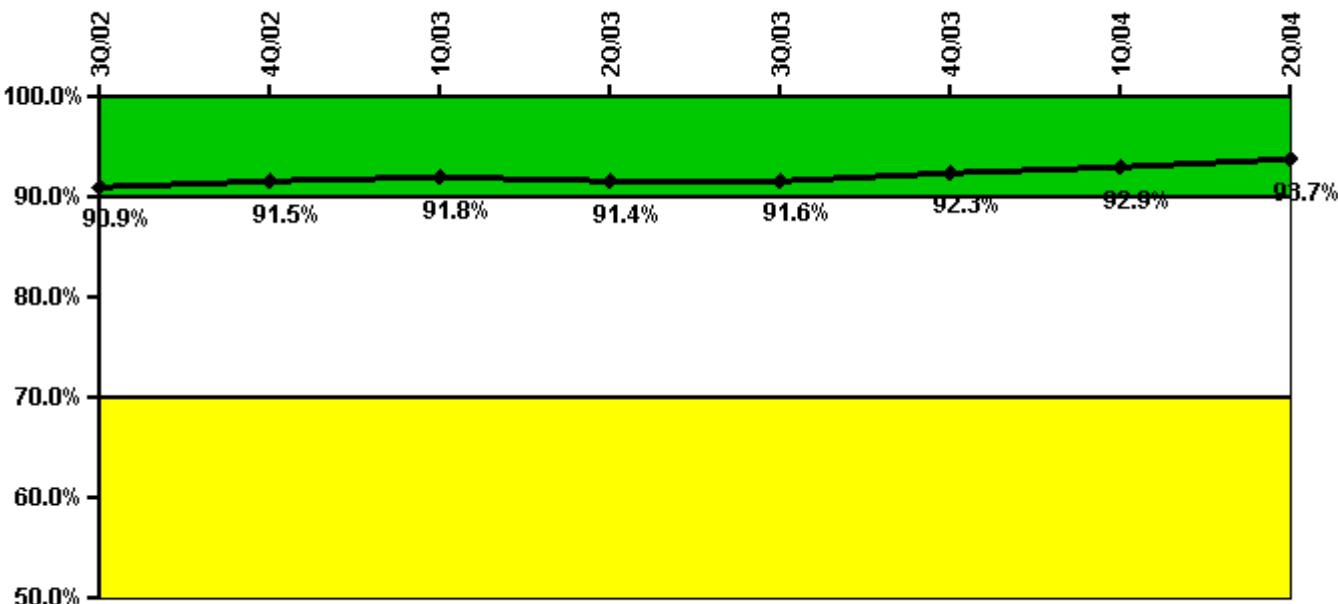
Notes

Reactor Coolant System Leakage	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum leakage	0.058	0.080	0.086	0.090	0.100	0.090	0.096	0.110	0.097	0.184	0	0.450
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.5	0.7	0.8	0.8	0.9	0.8	0.9	1.0	0.9	1.7	0	4.1

Reactor Coolant System Leakage	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum leakage	0.211	0.152	0.190	0.220	0.294	0.193	0.225	0.336	0.399	0.233	0.285	0.544
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	1.9	1.4	1.7	2.0	2.7	1.8	2.0	3.1	3.6	2.1	2.6	4.9

Licensee Comments: none

Drill/Exercise Performance



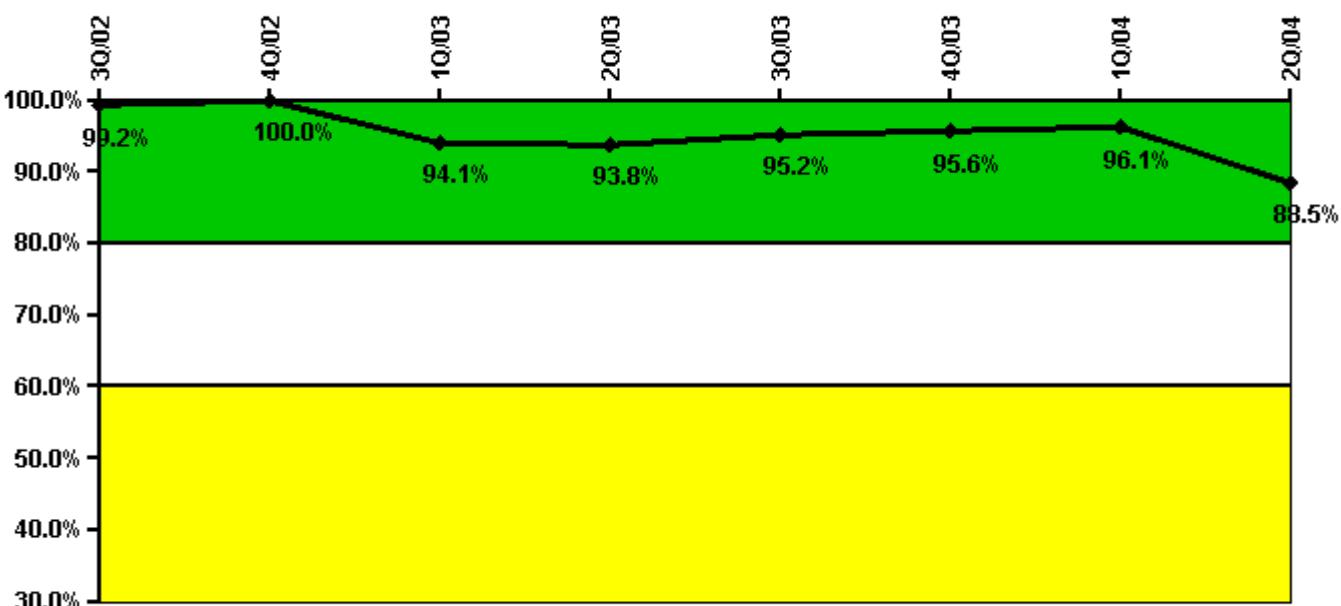
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful opportunities	140.0	149.0	85.0	30.0	176.0	83.0	132.0	83.0
Total opportunities	150.0	159.0	87.0	33.0	192.0	90.0	137.0	89.0
Indicator value	90.9%	91.5%	91.8%	91.4%	91.6%	92.3%	92.9%	93.7%

Licensee Comments: none

ERO Drill Participation



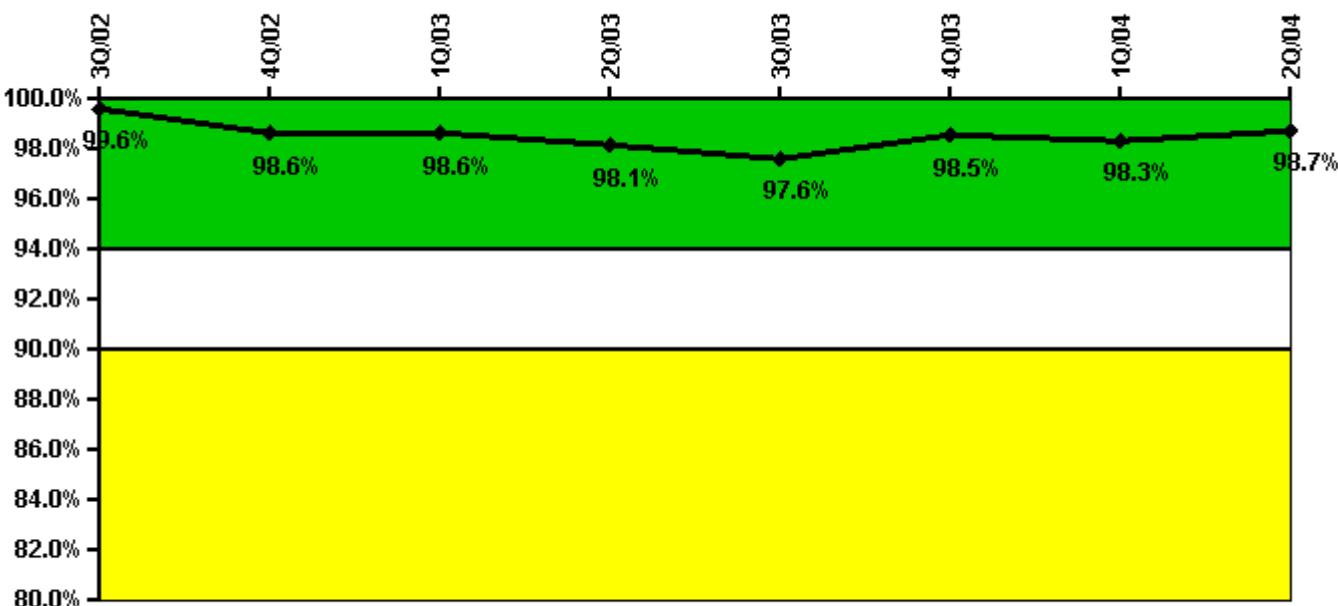
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Participating Key personnel	130.0	131.0	143.0	135.0	138.0	129.0	124.0	131.0
Total Key personnel	131.0	131.0	152.0	144.0	145.0	135.0	129.0	148.0
Indicator value	99.2%	100.0%	94.1%	93.8%	95.2%	95.6%	96.1%	88.5%

Licensee Comments: none

Alert & Notification System



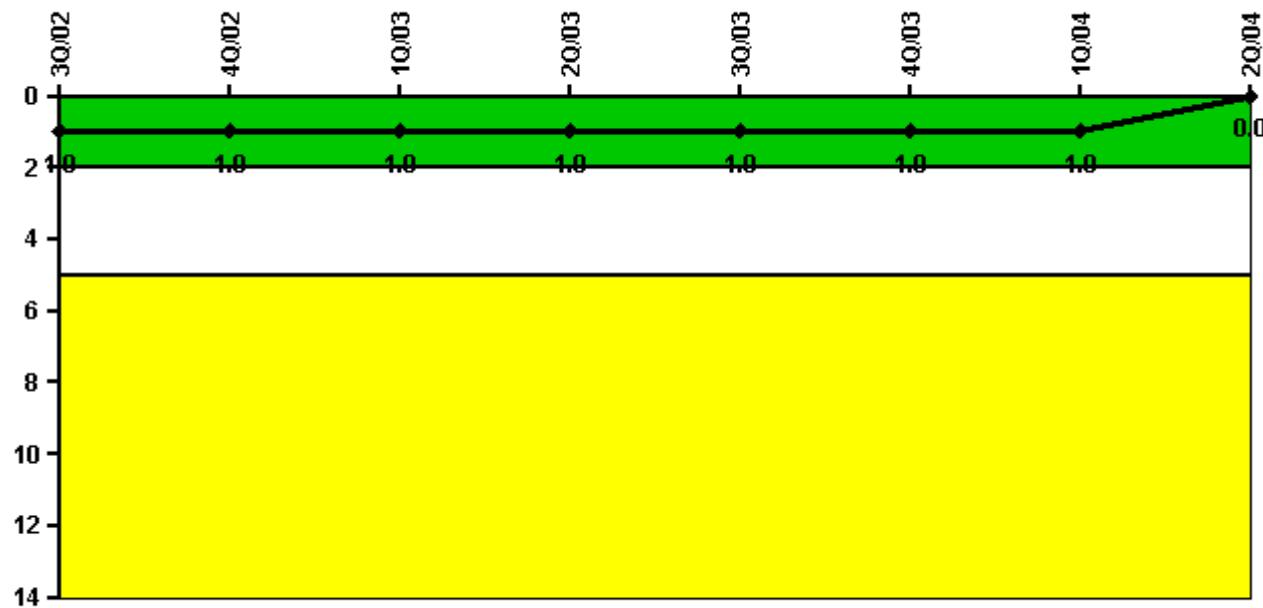
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful siren-tests	209	200	210	205	205	207	209	208
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	99.6%	98.6%	98.6%	98.1%	97.6%	98.5%	98.3%	98.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



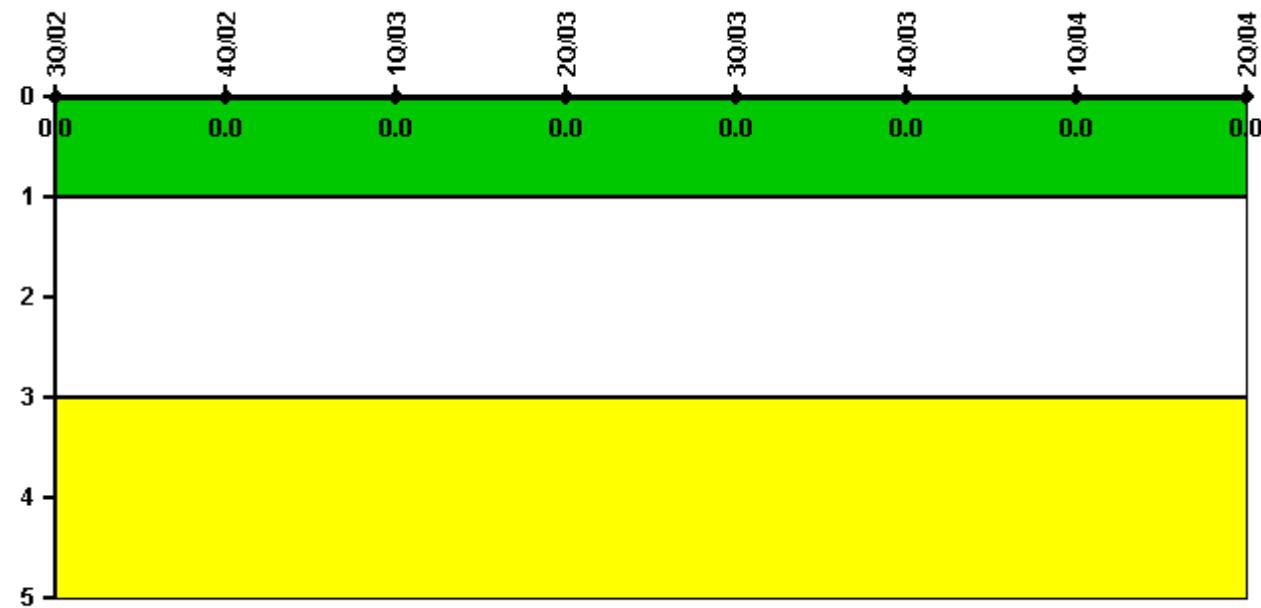
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	1	0	0	0	0
Indicator value	1	0						

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

[Physical Protection](#) information not publicly available.

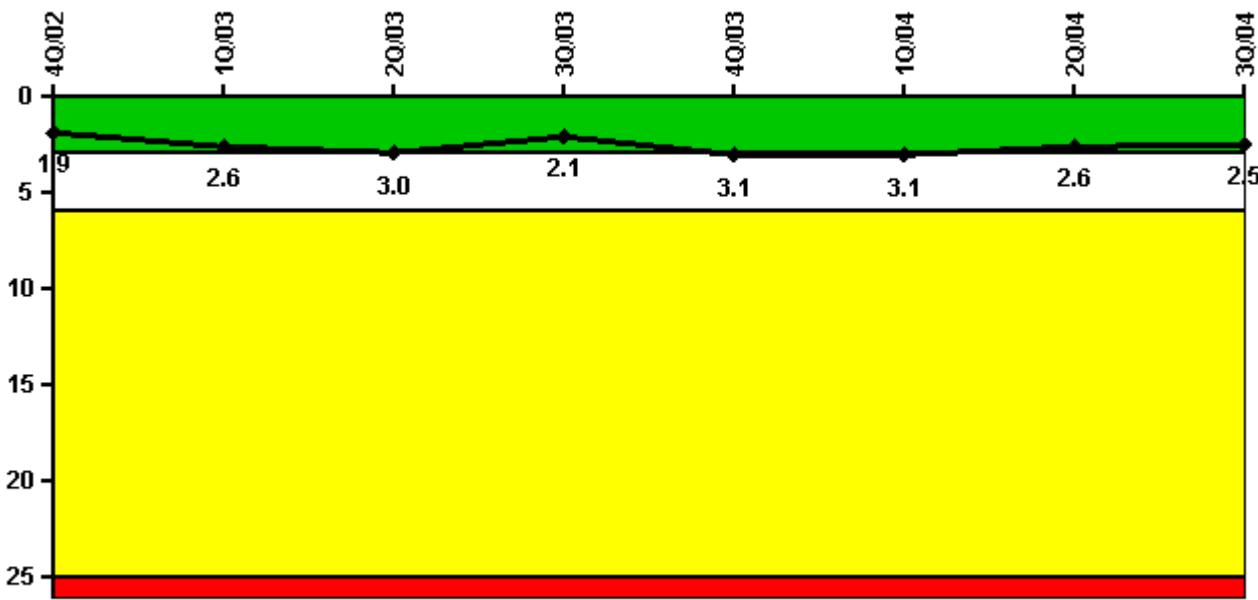


[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: September 8, 2004

D.C. Cook 2**3Q/2004 Performance Indicators**

Licensee's General Comments: none

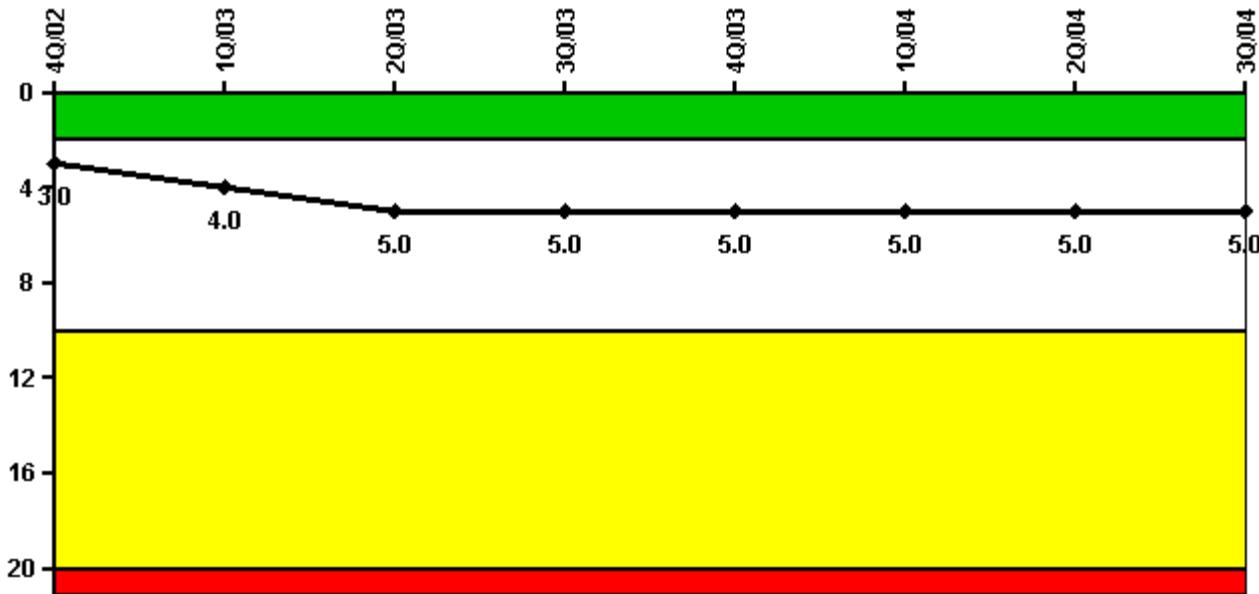
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned scrams	0	1.0	1.0	0	1.0	1.0	1.0	0
Critical hours	2209.0	1884.6	824.0	1832.1	2174.5	2052.7	2059.3	2208.0
Indicator value	1.9	2.6	3.0	2.1	3.1	3.1	2.6	2.5

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

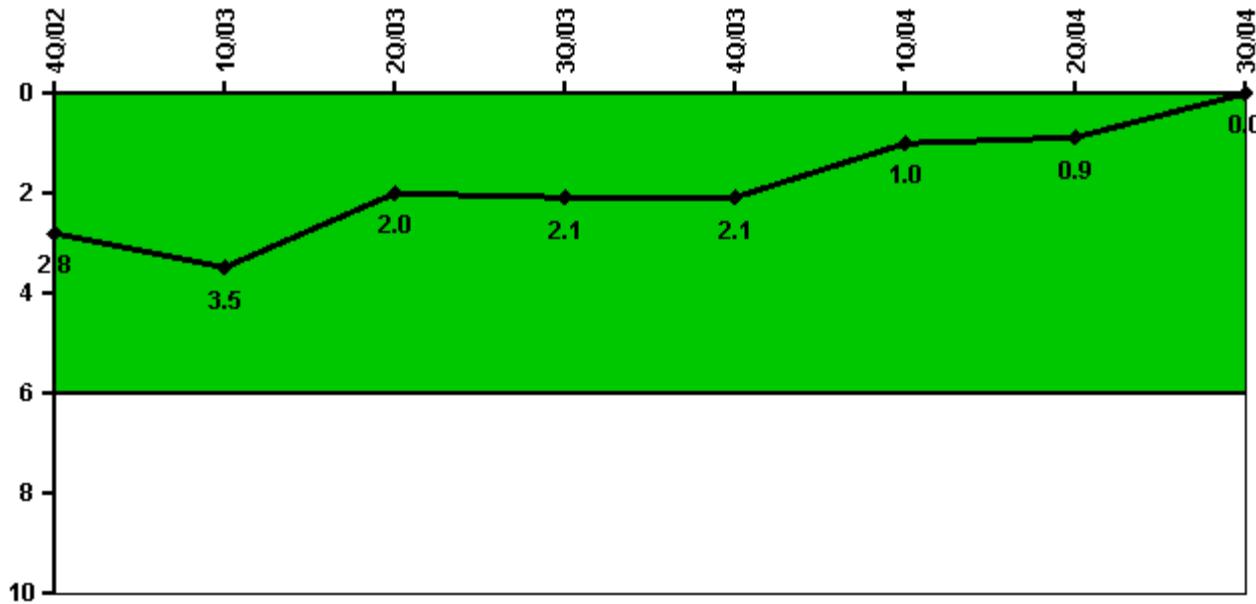
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Scrams	0	1.0	1.0	0	0	0	0	0
Indicator value	3.0	4.0	5.0	5.0	5.0	5.0	5.0	5.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



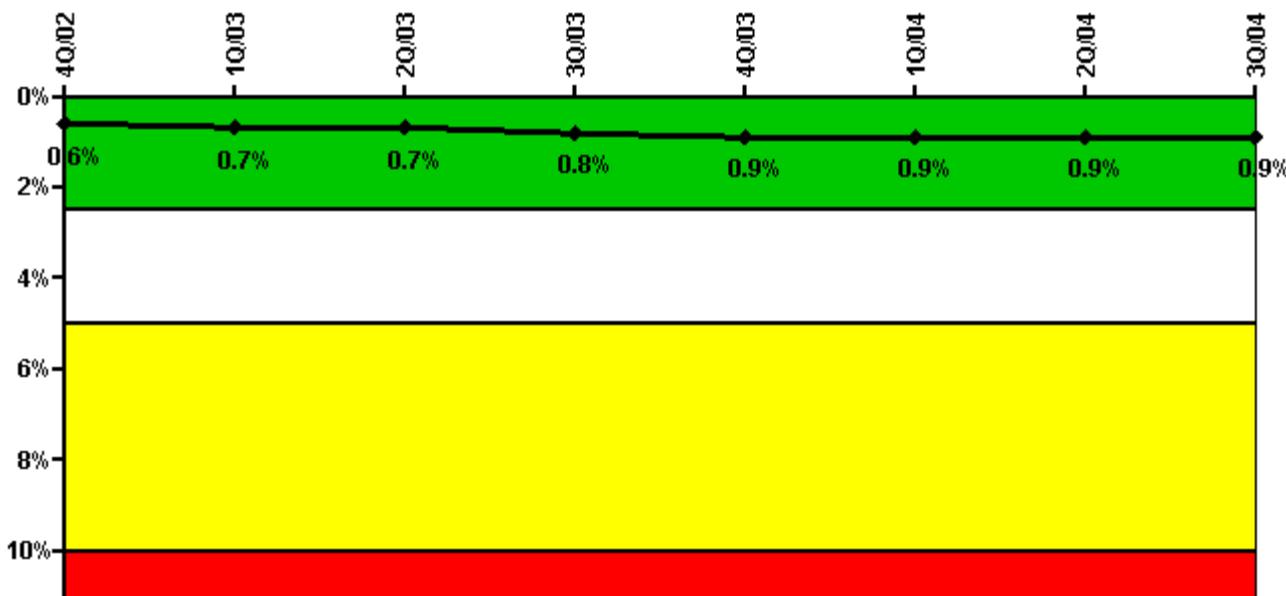
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned power changes	0	1.0	0	1.0	0	0	0	0
Critical hours	2209.0	1884.6	824.0	1832.1	2174.5	2052.7	2059.3	2208.0
Indicator value	2.8	3.5	2.0	2.1	2.1	1.0	0.9	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

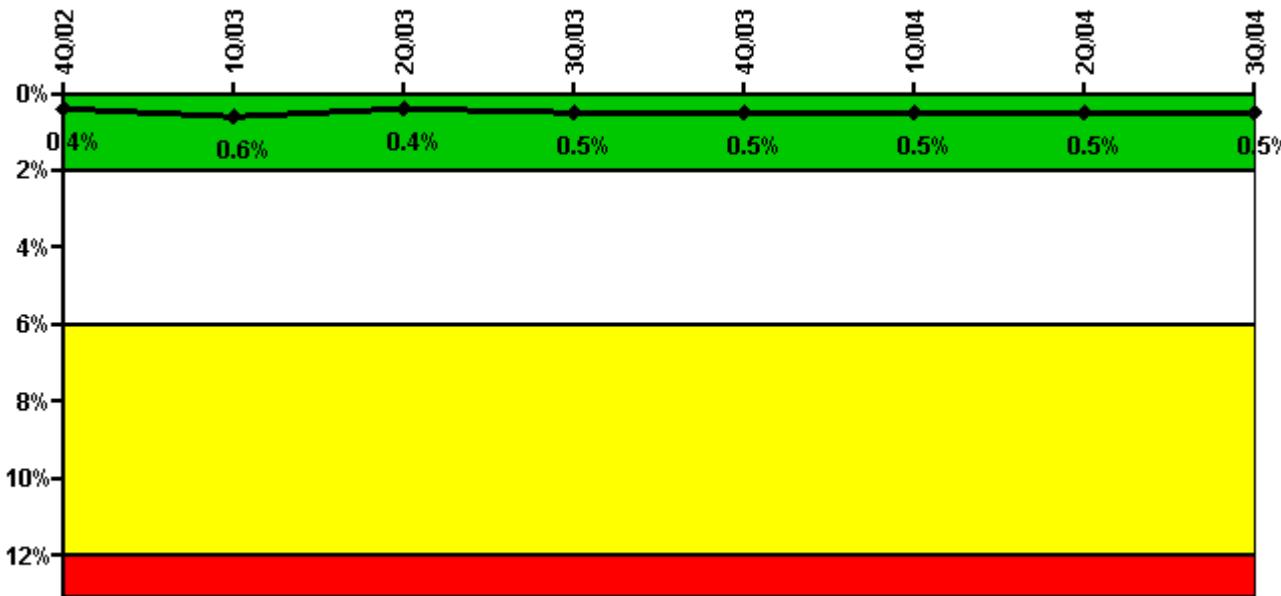
Notes

Safety System Unavailability, Emergency AC Power	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	0.70	33.52	0.32	21.99	1.14	18.54	16.29	4.19
Unplanned unavailable hours	81.80	49.10	0	8.63	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2185.00	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	6.30	1.18	0.65	9.35	4.91	25.24	0.97	20.29
Unplanned unavailable hours	18.80	0	0	0	102.12	0.20	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	1079.77	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value	0.6%	0.7%	0.7%	0.8%	0.9%	0.9%	0.9%	0.9%

Licensee Comments: none

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



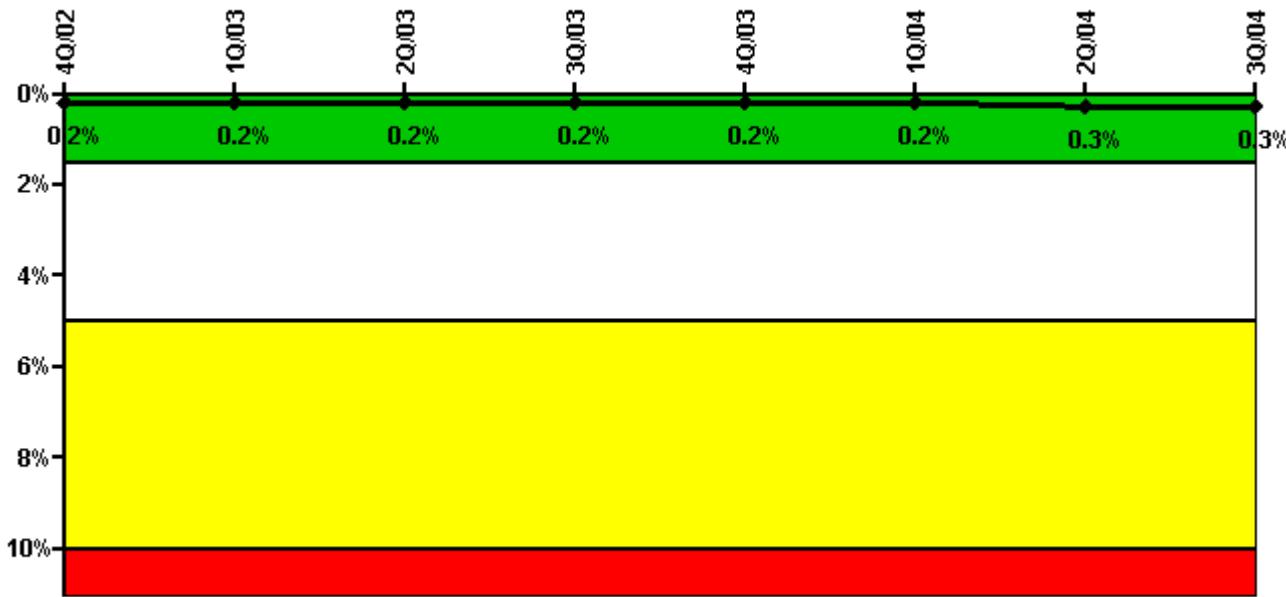
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)		4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1									
Planned unavailable hours		0	36.12	0	6.05	4.62	0	11.75	0.55
Unplanned unavailable hours		0	0	0	0	0.05	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2209.00	2132.20	912.07	1886.30	2209.00	2184.00	2183.00	2208.00
Train 2									
Planned unavailable hours		0	29.38	0	0	0	5.53	0	17.27
Unplanned unavailable hours		0	59.48	0	0	0.07	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2209.00	2131.20	912.07	1886.30	2209.00	2184.00	2183.00	2208.00
Train 3									
Planned unavailable hours		0	9.03	0	0	20.90	0	16.00	13.47
Unplanned unavailable hours		0	0	0	0	0	0	8.35	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2209.00	2131.20	912.07	1886.30	2209.00	2184.00	2183.00	2208.00
Indicator value		0.4%	0.6%	0.4%	0.5%	0.5%	0.5%	0.5%	0.5%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

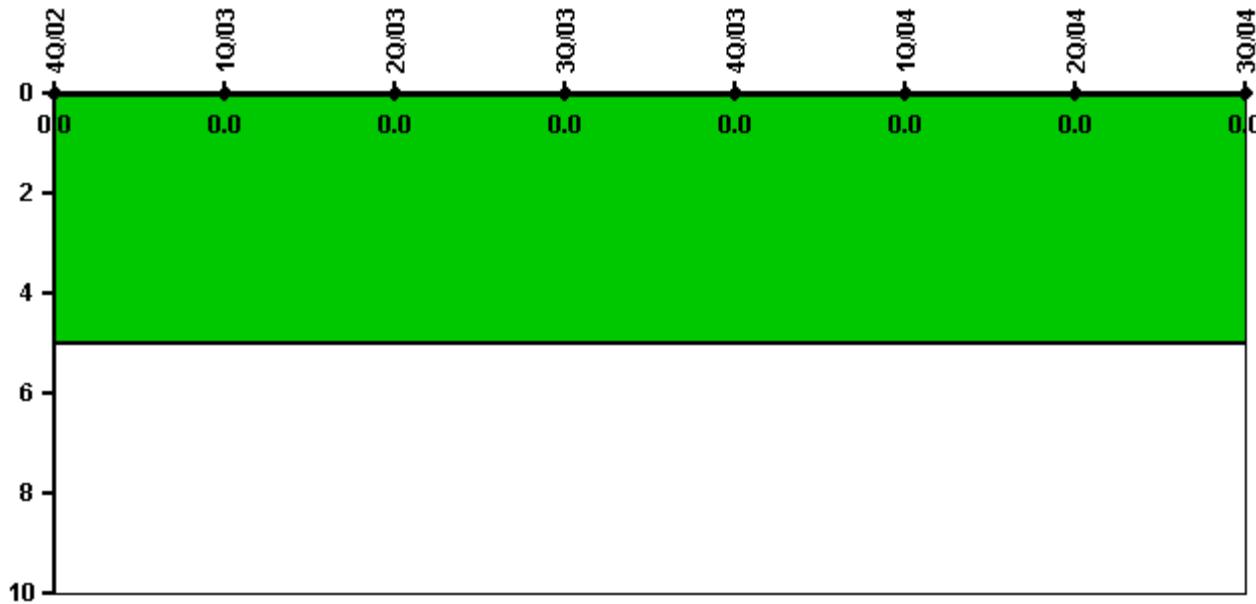


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	8.05	0	0	0	0	0	17.28	4.48
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	1838.30	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	6.03	0	0	10.67	14.18	0	8.15	5.30
Unplanned unavailable hours	0	0	0	0	17.45	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	1838.30	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%

Licensee Comments: none

Safety System Functional Failures (PWR)

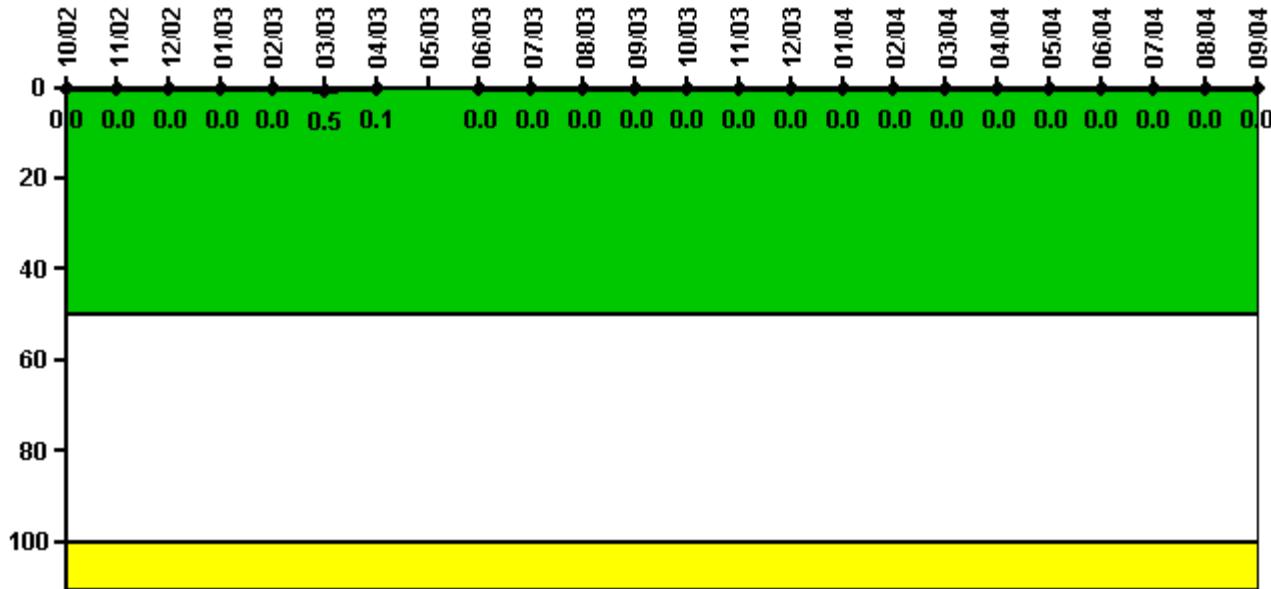
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Reactor Coolant System Activity



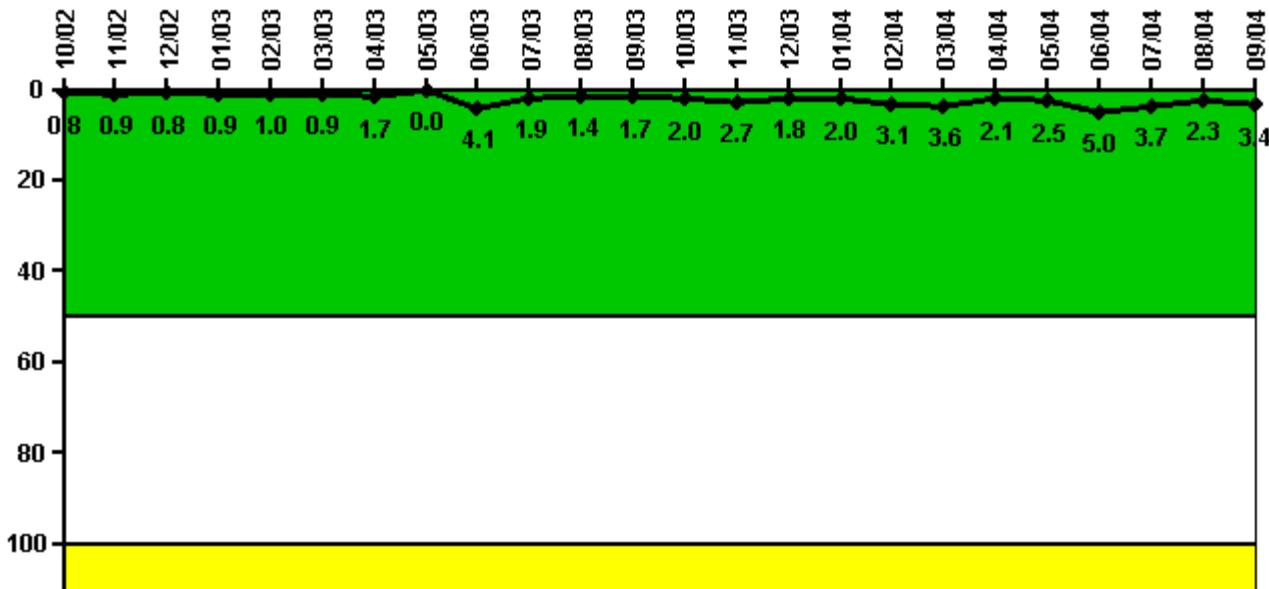
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity		10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum activity		0.000359	0.000324	0.000313	0.000313	0.000368	0.004970	0.001070	N/A	0.000159	0.000217	0.000175	0.000188
Technical specification limit		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value		0	0	0	0	0	0.5	0.1	N/A	0	0	0	0
Reactor Coolant System Activity		10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum activity		0.000196	0.000201	0.000215	0.000219	0.000242	0.000243	0.000385	0.000247	0.000261	0.000283	0.000269	0.000469
Technical specification limit		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value		0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

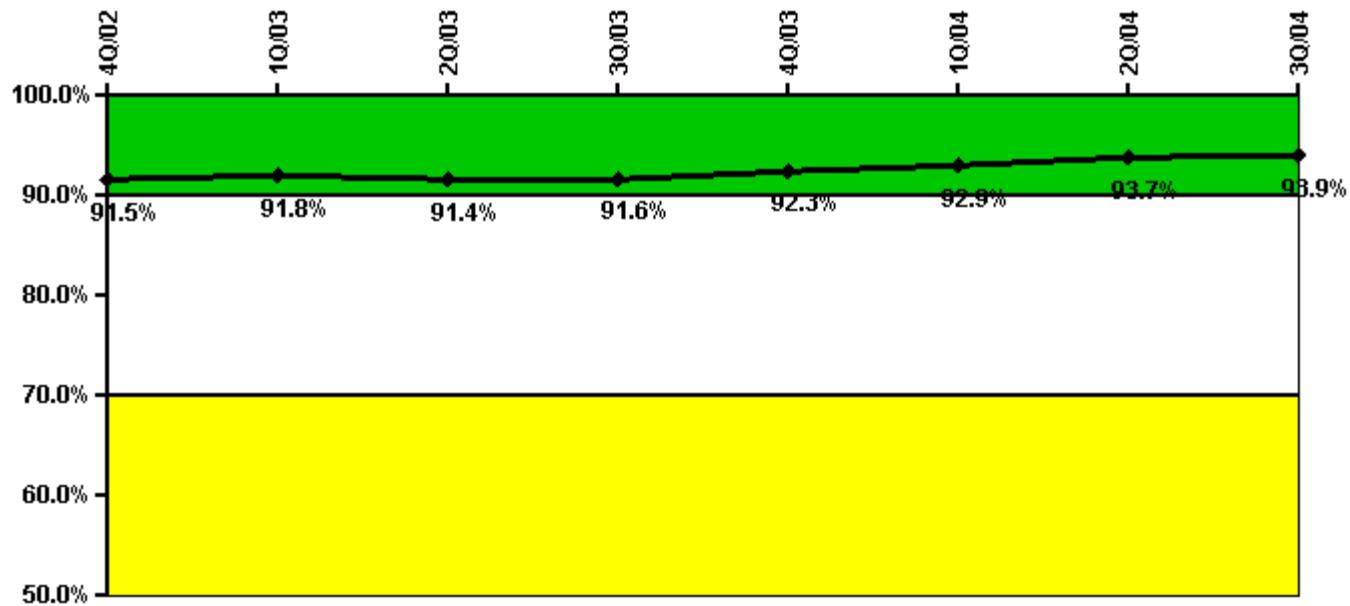
Notes

Reactor Coolant System Leakage	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum leakage	0.090	0.100	0.090	0.096	0.110	0.097	0.184	0	0.450	0.211	0.152	0.190
Indicator value	0.8	0.9	0.8	0.9	1.0	0.9	1.7	0	4.1	1.9	1.4	1.7
Reactor Coolant System Leakage	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	0.220	0.294	0.193	0.225	0.336	0.399	0.226	0.276	0.551	0.408	0.257	0.369
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	2.0	2.7	1.8	2.0	3.1	3.6	2.1	2.5	5.0	3.7	2.3	3.4

Licensee Comments:

6/04: Second QTR RCS identified leakage data changed to correct incorrectly reported data due to inadequate procedural guidance.

Drill/Exercise Performance



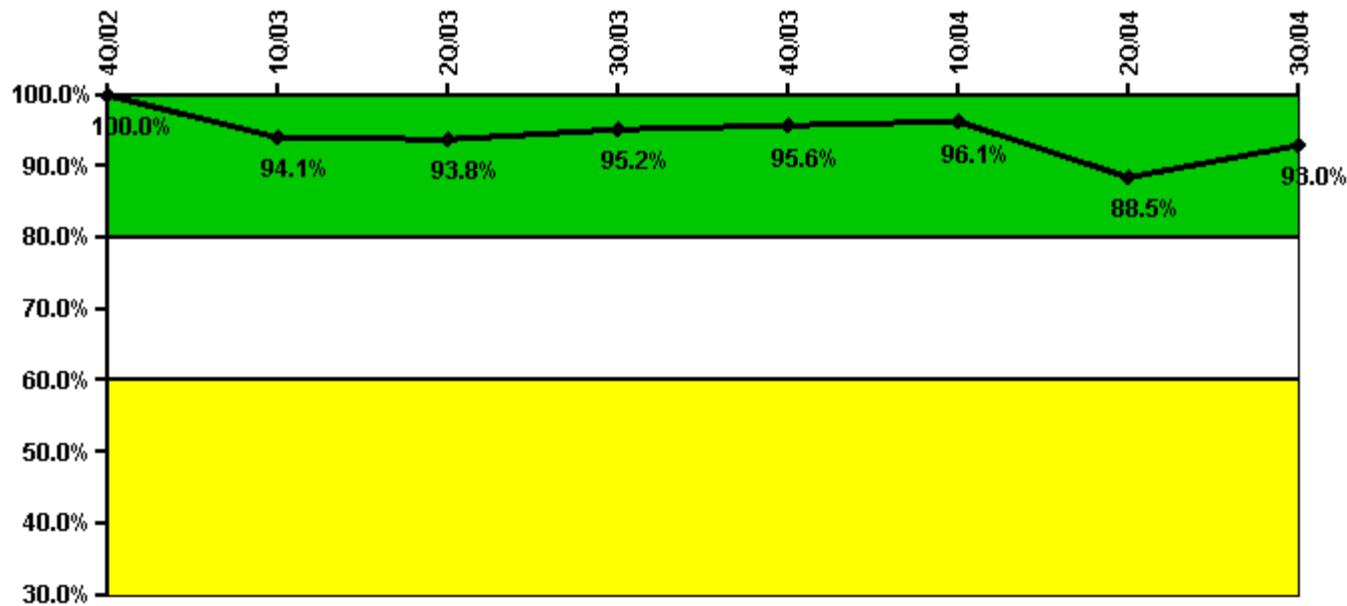
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful opportunities	149.0	85.0	30.0	176.0	83.0	132.0	83.0	74.0
Total opportunities	159.0	87.0	33.0	192.0	90.0	137.0	89.0	78.0
Indicator value	91.5%	91.8%	91.4%	91.6%	92.3%	92.9%	93.7%	93.9%

Licensee Comments: none

ERO Drill Participation



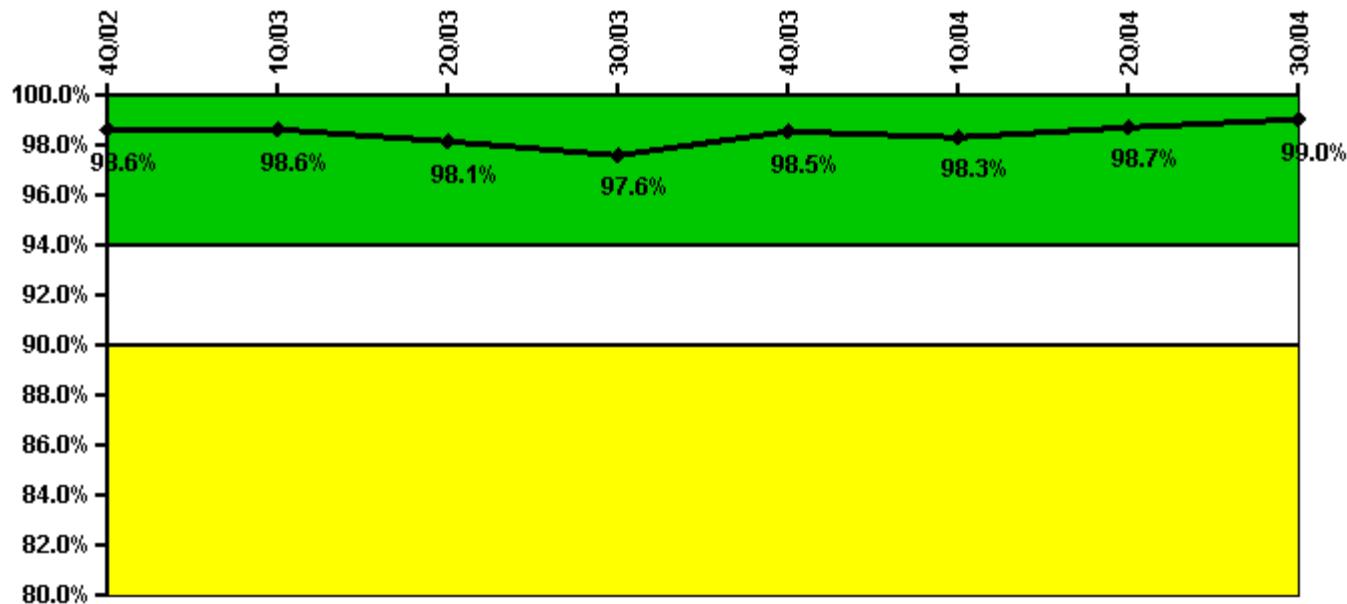
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Participating Key personnel	131.0	143.0	135.0	138.0	129.0	124.0	131.0	133.0
Total Key personnel	131.0	152.0	144.0	145.0	135.0	129.0	148.0	143.0
Indicator value	100.0%	94.1%	93.8%	95.2%	95.6%	96.1%	88.5%	93.0%

Licensee Comments: none

Alert & Notification System



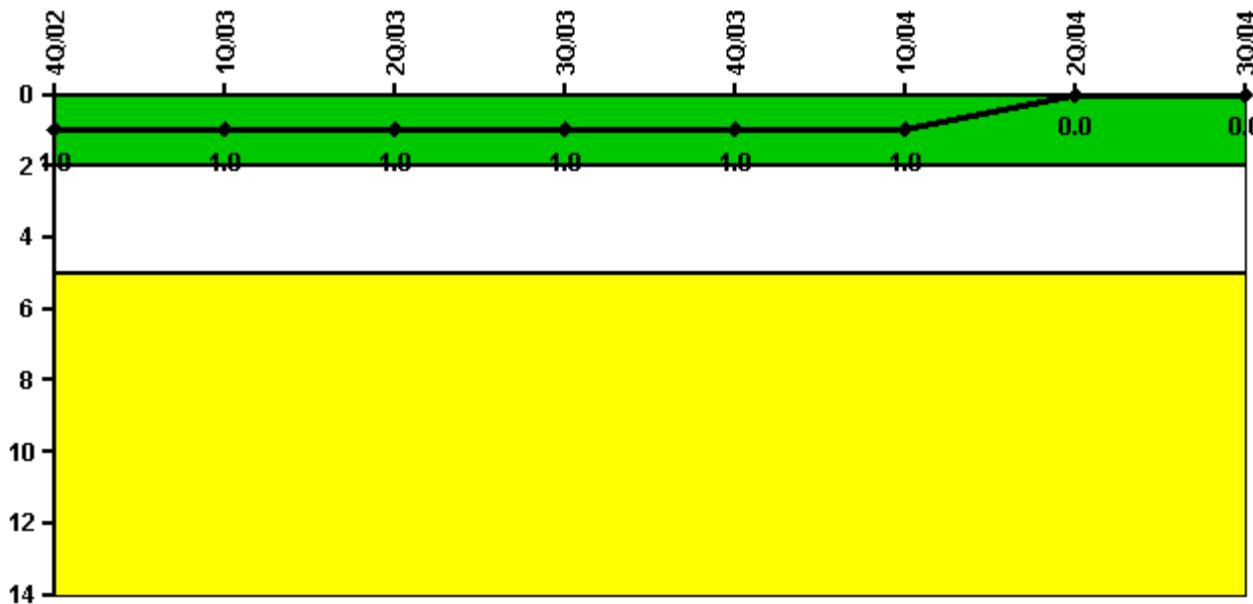
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful siren-tests	200	210	205	205	207	209	208	208
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	98.6%	98.6%	98.1%	97.6%	98.5%	98.3%	98.7%	99.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness

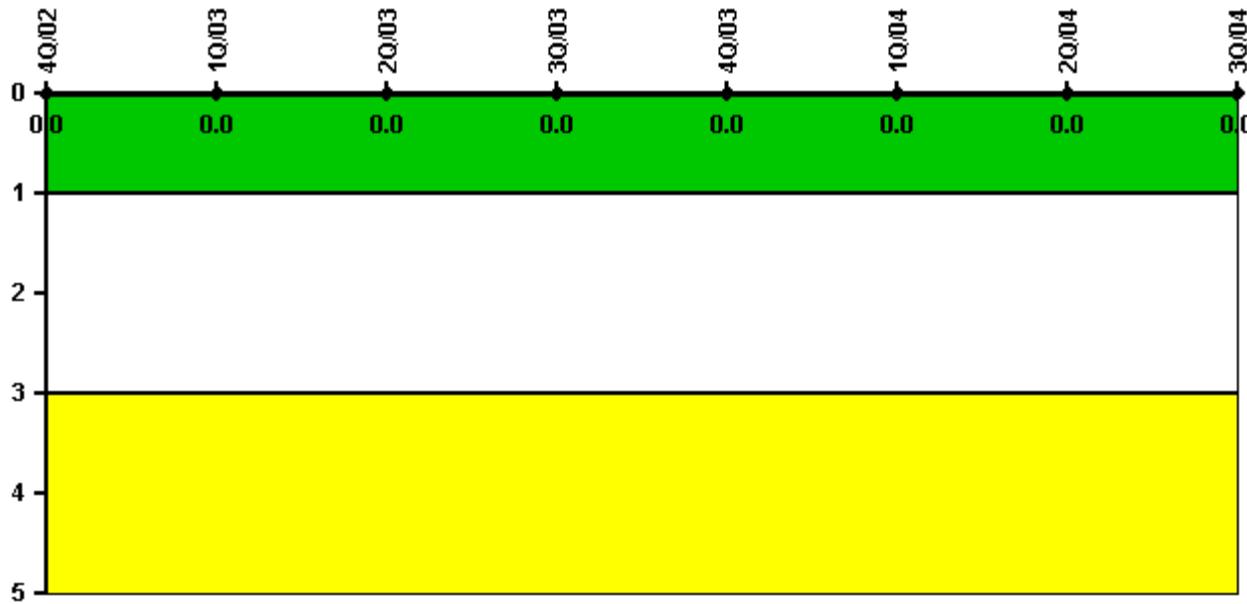


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	1	0	0	0	0	0
Indicator value	1	1	1	1	1	1	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

[Physical Protection](#) information not publicly available.

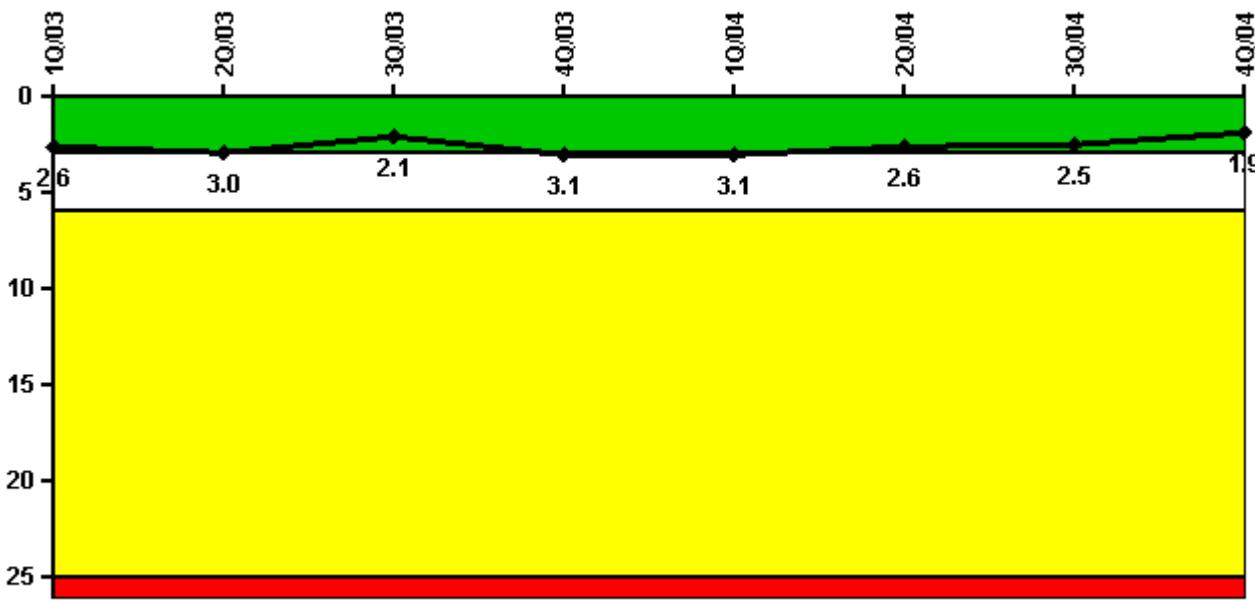


[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: October 25, 2004

D.C. Cook 2**4Q/2004 Performance Indicators**

Licensee's General Comments: none

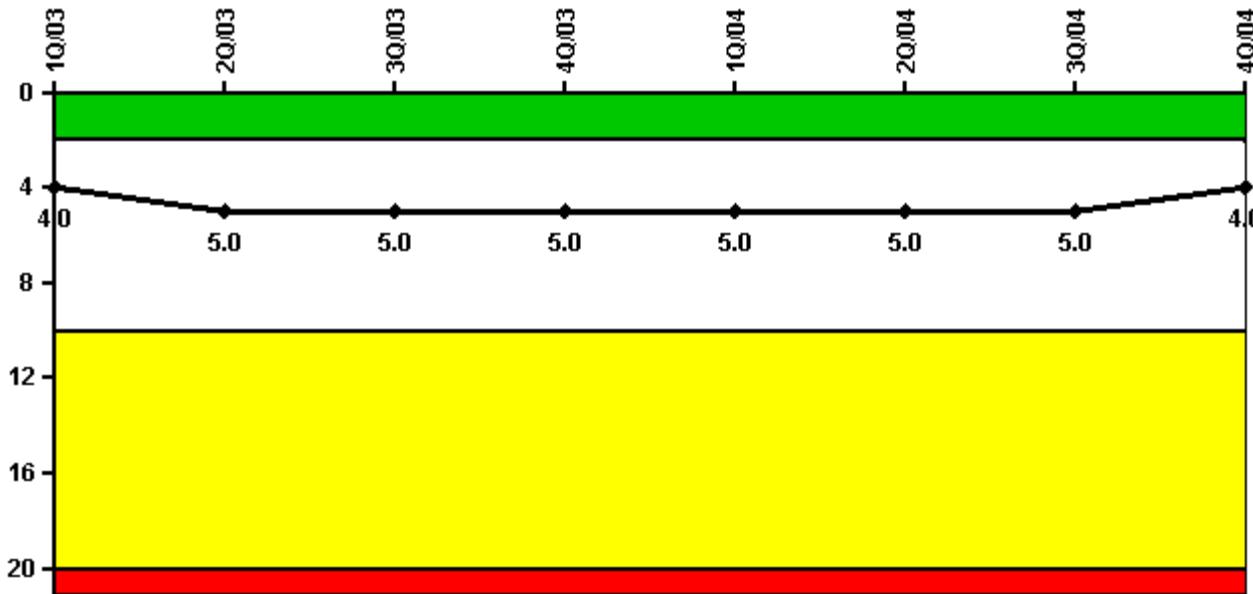
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned scrams	1.0	1.0	0	1.0	1.0	1.0	0	0
Critical hours	1884.6	824.0	1832.1	2174.5	2052.7	2059.3	2208.0	1145.9
Indicator value	2.6	3.0	2.1	3.1	3.1	2.6	2.5	1.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

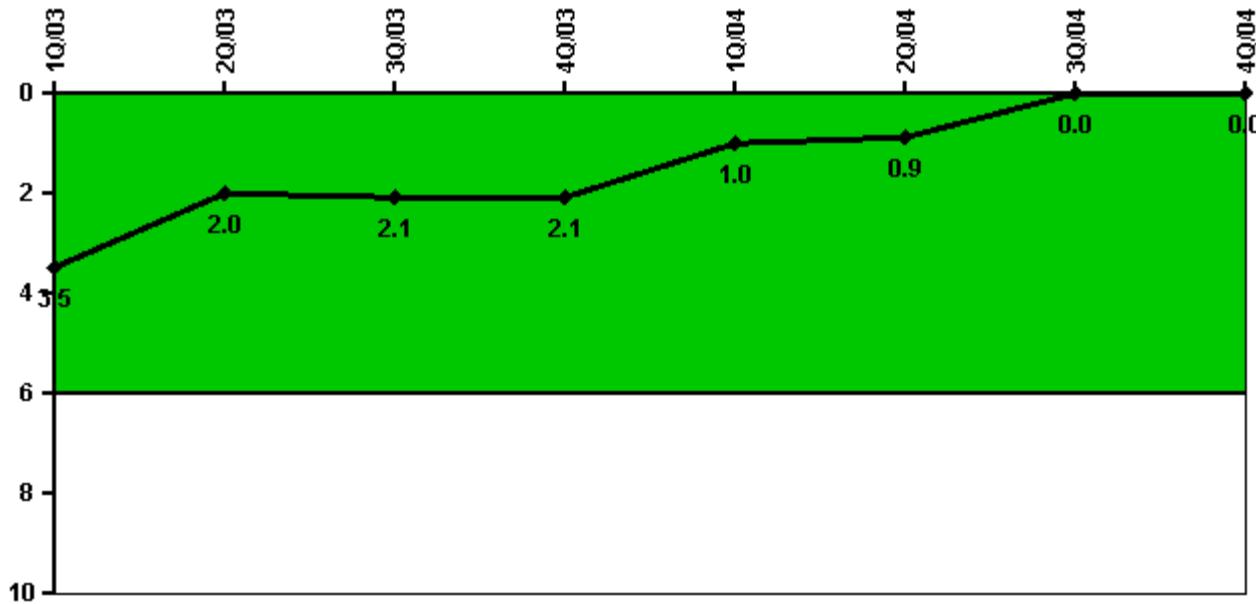
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Scrams	1.0	1.0	0	0	0	0	0	0
Indicator value	4.0	5.0	5.0	5.0	5.0	5.0	5.0	4.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



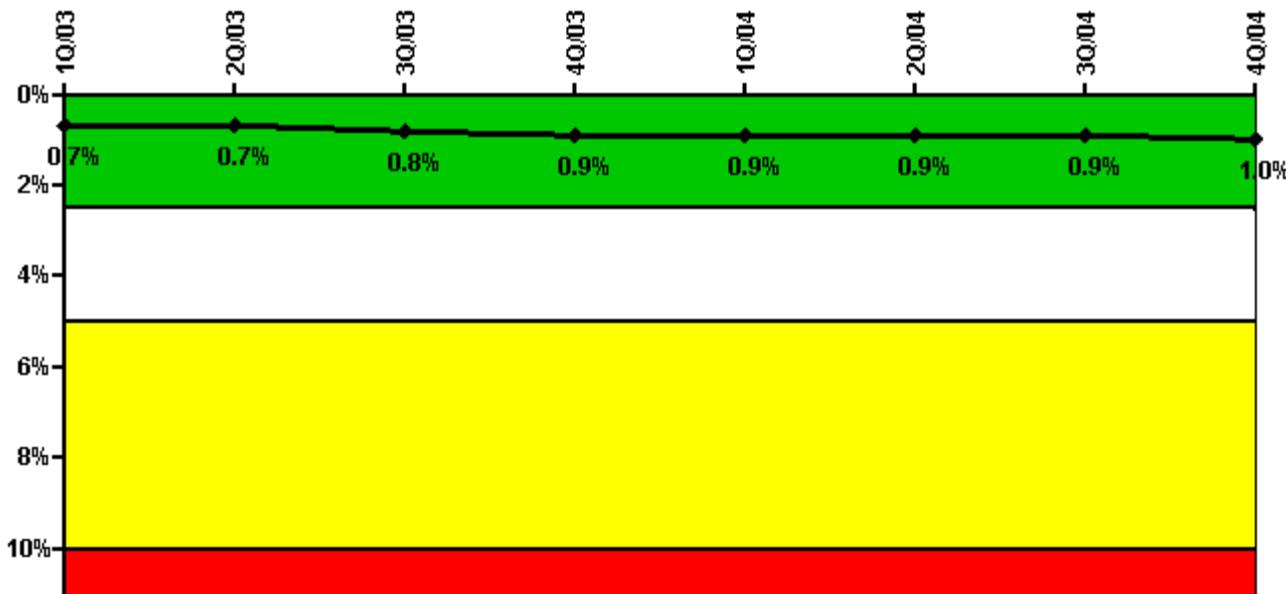
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned power changes	1.0	0	1.0	0	0	0	0	0
Critical hours	1884.6	824.0	1832.1	2174.5	2052.7	2059.3	2208.0	1145.9
Indicator value	3.5	2.0	2.1	2.1	1.0	0.9	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

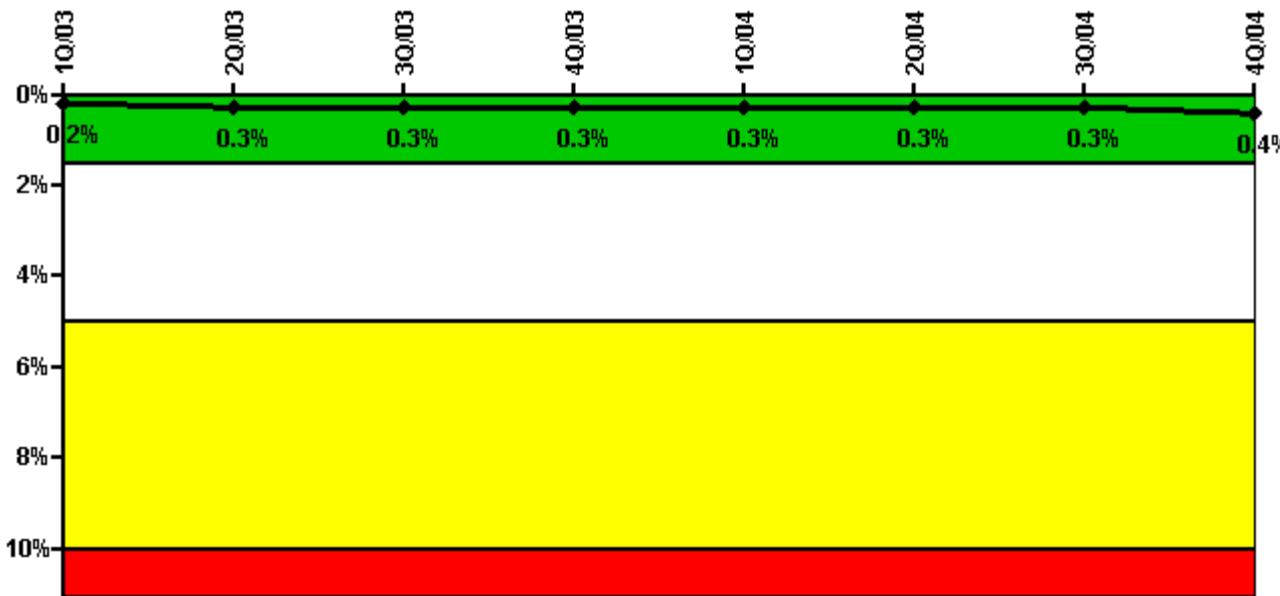
Notes

Safety System Unavailability, Emergency AC Power	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	33.52	0.32	21.99	1.14	18.54	16.29	4.19	18.91
Unplanned unavailable hours	49.10	0	8.63	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2185.00	2208.00	2209.00	2184.00	2183.00	2208.00	1504.18
Train 2								
Planned unavailable hours	1.18	0.65	9.35	4.91	25.24	0.97	20.29	0.42
Unplanned unavailable hours	0	0	0	102.12	0.20	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1079.77	2208.00	2209.00	2184.00	2183.00	2208.00	1989.06
Indicator value	0.7%	0.7%	0.8%	0.9%	0.9%	0.9%	0.9%	1.0%

Licensee Comments:

4Q/04: LER 05000316/2004-003-00

Safety System Unavailability, High Pressure Injection System (HPSI)

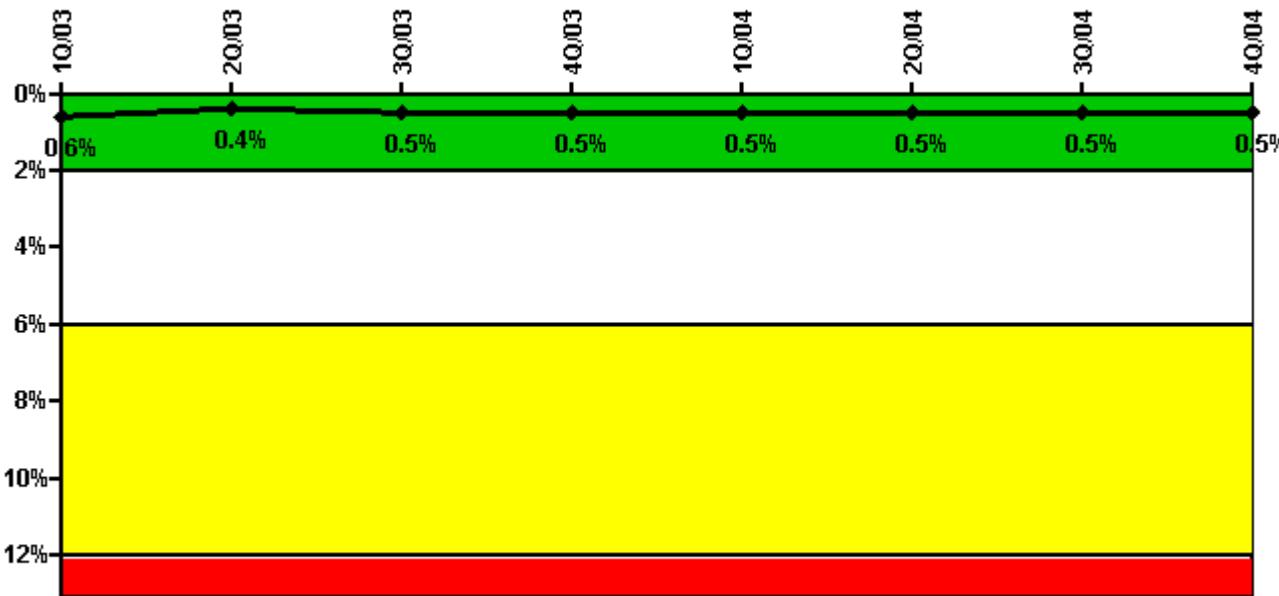


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



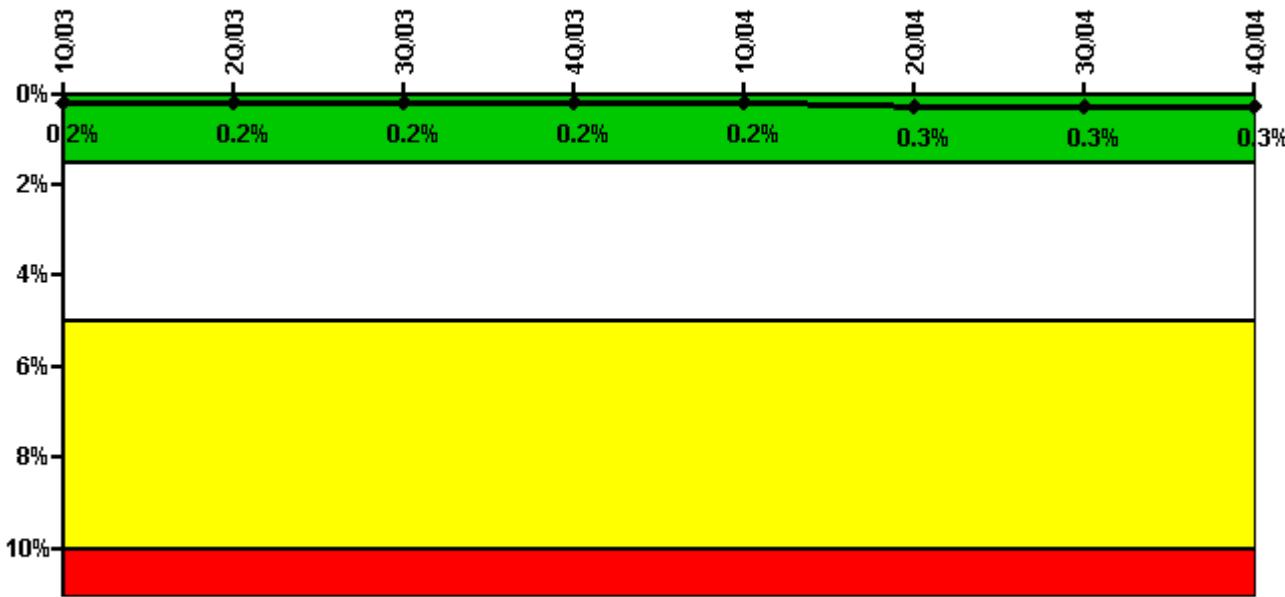
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	36.12	0	6.05	4.62	0	11.75	0.55	3.58
Unplanned unavailable hours	0	0	0	0.05	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2132.20	912.07	1886.30	2209.00	2184.00	2183.00	2208.00	1239.60
Train 2								
Planned unavailable hours	29.38	0	0	0	5.53	0	17.27	0
Unplanned unavailable hours	59.48	0	0	0.07	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2131.20	912.07	1886.30	2209.00	2184.00	2183.00	2208.00	1239.60
Train 3								
Planned unavailable hours	9.03	0	0	20.90	0	16.00	13.47	0
Unplanned unavailable hours	0	0	0	0	0	8.35	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2131.20	912.07	1886.30	2209.00	2184.00	2183.00	2208.00	1239.60
Indicator value	0.6%	0.4%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

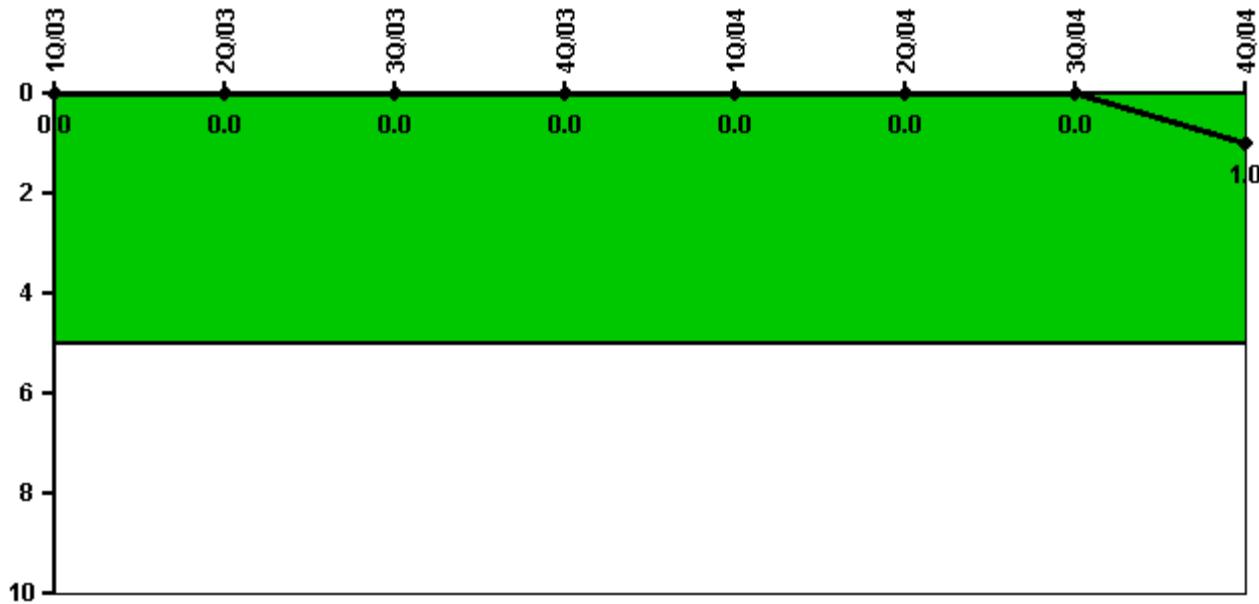


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	0	0	0	0	0	17.28	4.48	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1838.30	2208.00	2209.00	2184.00	2183.00	2208.00	1933.22
Train 2								
Planned unavailable hours	0	0	10.67	14.18	0	8.15	5.30	4.20
Unplanned unavailable hours	0	0	0	17.45	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1838.30	2208.00	2209.00	2184.00	2183.00	2208.00	1933.22
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Functional Failures (PWR)

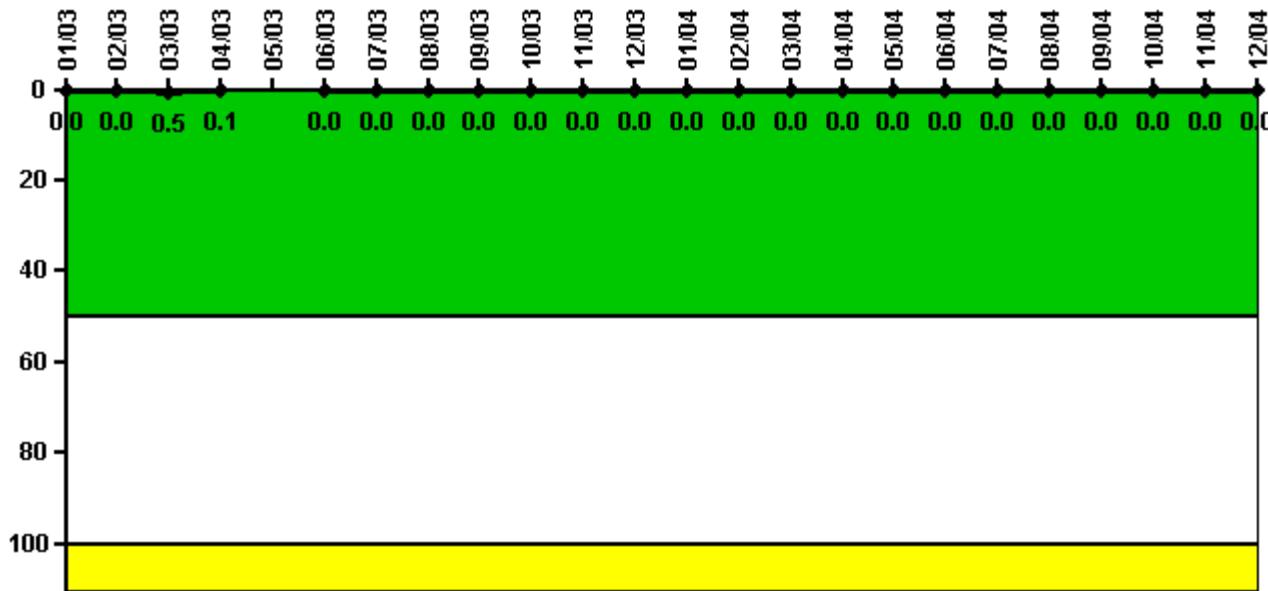
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Safety System Functional Failures	0	0	0	0	0	0	0	1
Indicator value	0	0	0	0	0	0	0	1

Licensee Comments: none

Reactor Coolant System Activity



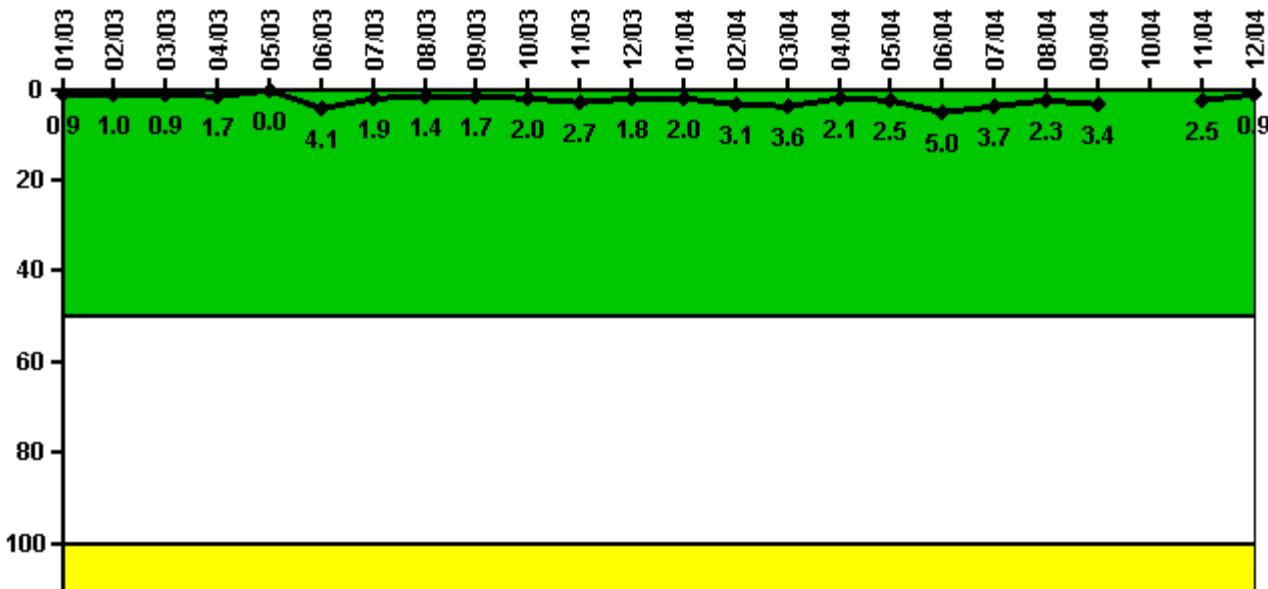
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity		1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum activity		0.000313	0.000368	0.004970	0.001070	N/A	0.000159	0.000217	0.000175	0.000188	0.000196	0.000201	0.000215
Technical specification limit		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value		0	0	0.5	0.1	N/A	0	0	0	0	0	0	0
Reactor Coolant System Activity		1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum activity		0.000219	0.000242	0.000243	0.000385	0.000247	0.000261	0.000283	0.000269	0.000469	0.000241	0.000136	0.000140
Technical specification limit		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value		0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

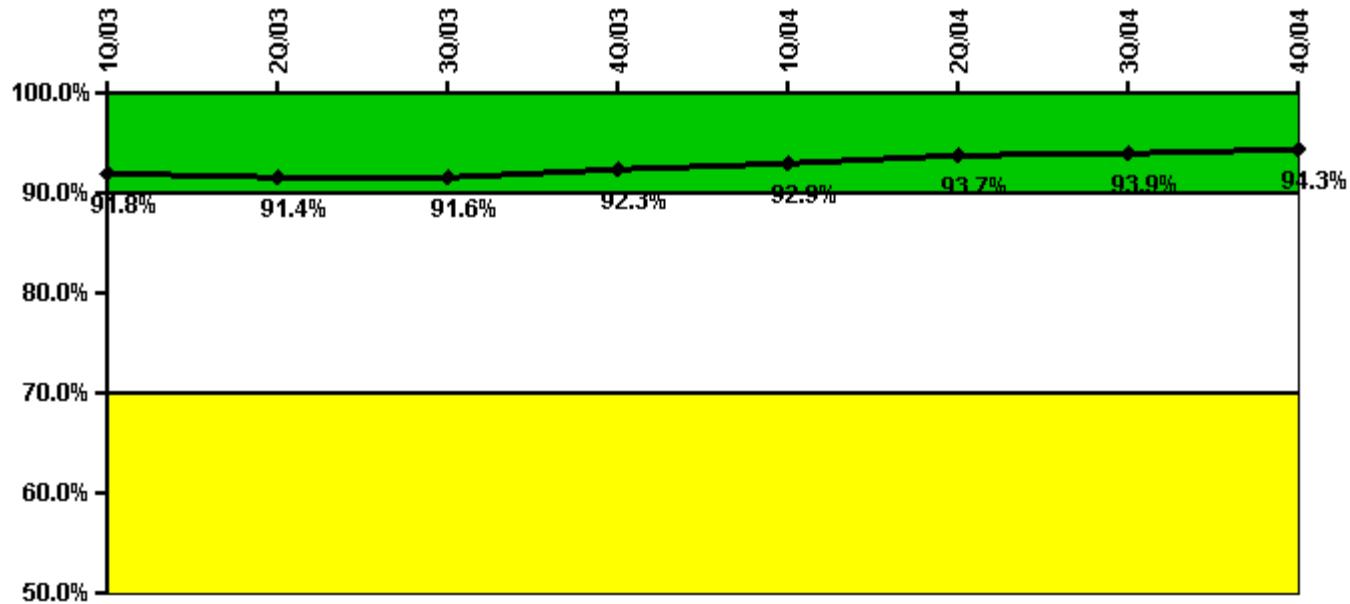
Notes

Reactor Coolant System Leakage	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum leakage	0.096	0.110	0.097	0.184	0	0.450	0.211	0.152	0.190	0.220	0.294	0.193
Indicator value	0.9	1.0	0.9	1.7	0	4.1	1.9	1.4	1.7	2.0	2.7	1.8
Reactor Coolant System Leakage	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum leakage	0.225	0.336	0.399	0.226	0.276	0.551	0.408	0.257	0.369	N/A	0.274	0.096
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	2.0	3.1	3.6	2.1	2.5	5.0	3.7	2.3	3.4	N/A	2.5	0.9

Licensee Comments:

12/04: Unit 2 was in a refueling outage during the month of October 2004

Drill/Exercise Performance



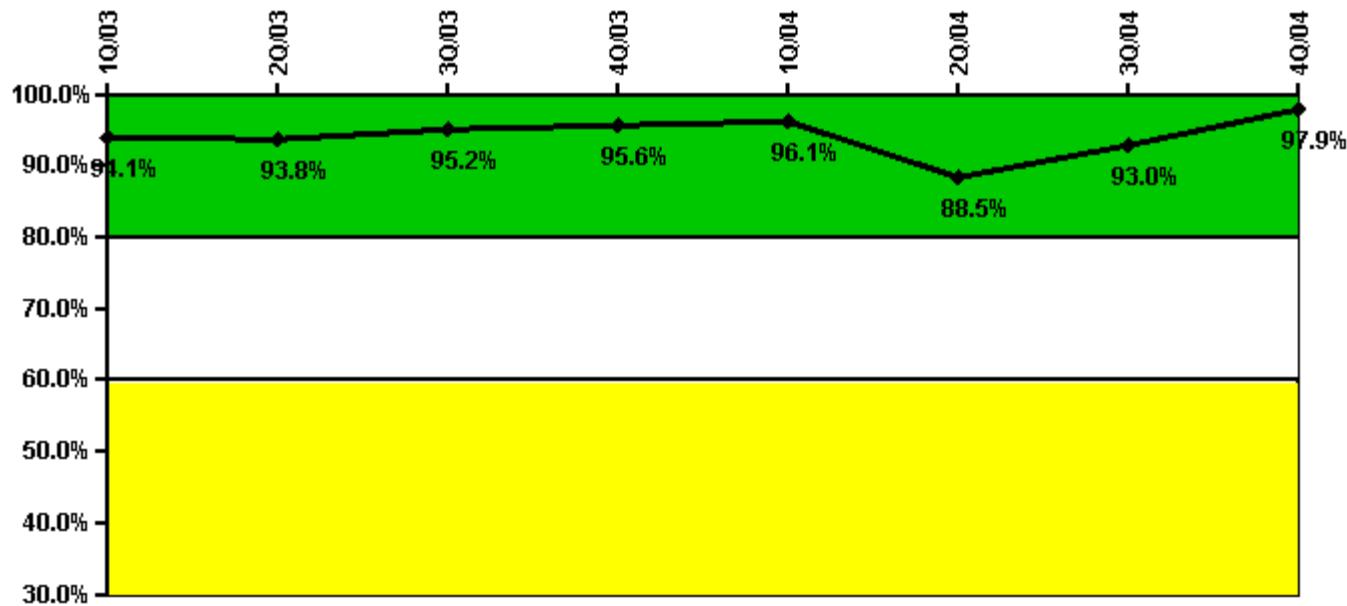
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful opportunities	85.0	30.0	176.0	83.0	132.0	83.0	74.0	61.0
Total opportunities	87.0	33.0	192.0	90.0	137.0	89.0	78.0	62.0
Indicator value	91.8%	91.4%	91.6%	92.3%	92.9%	93.7%	93.9%	94.3%

Licensee Comments: none

ERO Drill Participation



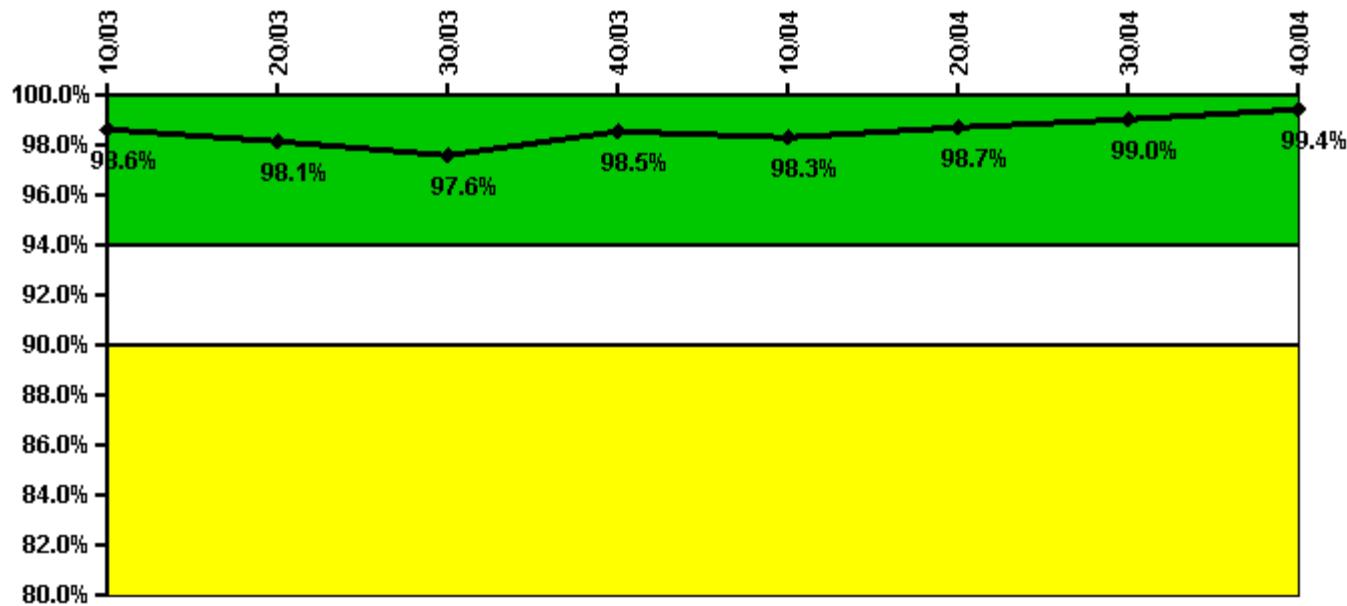
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Participating Key personnel	143.0	135.0	138.0	129.0	124.0	131.0	133.0	138.0
Total Key personnel	152.0	144.0	145.0	135.0	129.0	148.0	143.0	141.0
Indicator value	94.1%	93.8%	95.2%	95.6%	96.1%	88.5%	93.0%	97.9%

Licensee Comments: none

Alert & Notification System

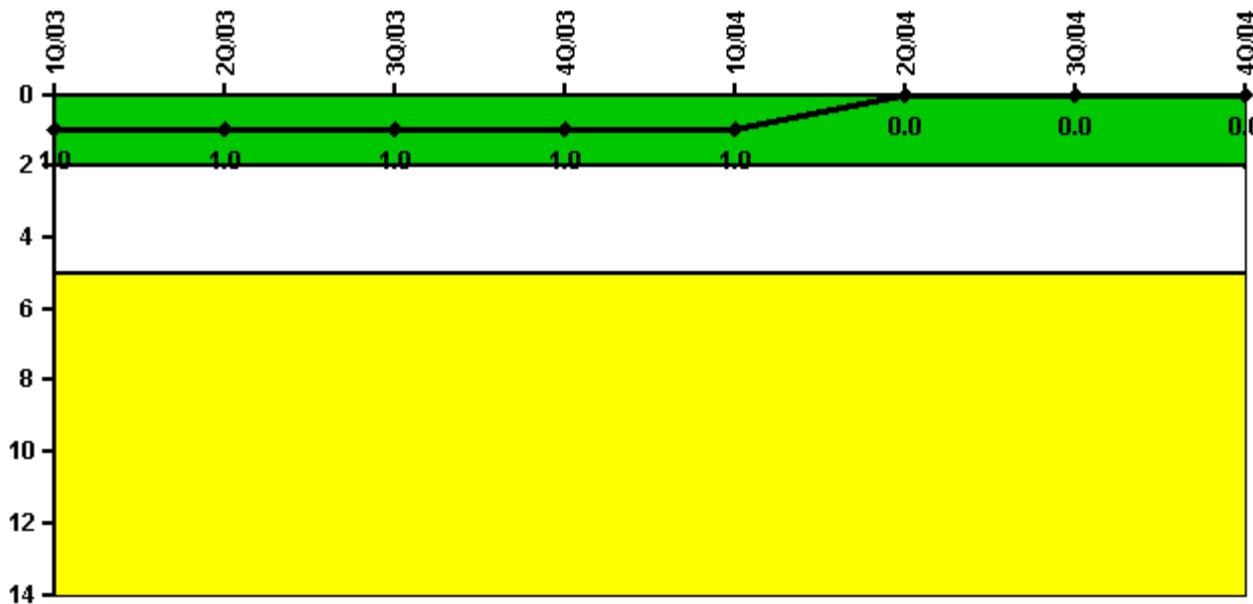


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful siren-tests	210	205	205	207	209	208	208	210
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	98.6%	98.1%	97.6%	98.5%	98.3%	98.7%	99.0%	99.4%

Licensee Comments: none

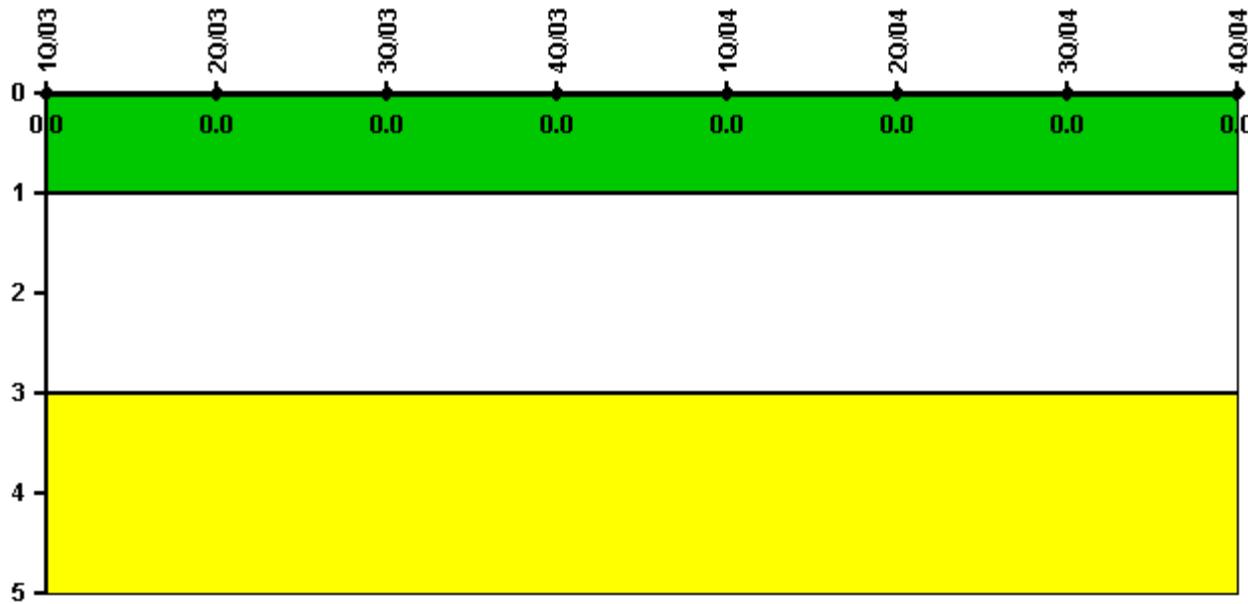
Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	1	0	0	0	0	0	0
Indicator value	1	1	1	1	1	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Physical Protection](#) information not publicly available.

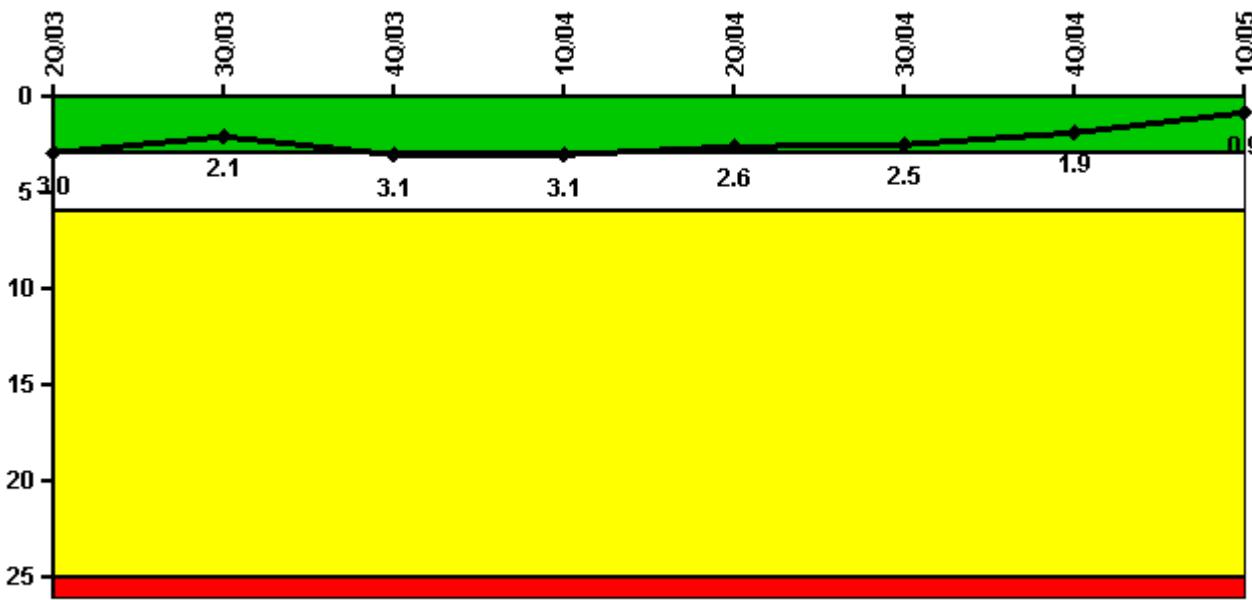


[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 9, 2005

D.C. Cook 2**1Q/2005 Performance Indicators**

Licensee's General Comments: none

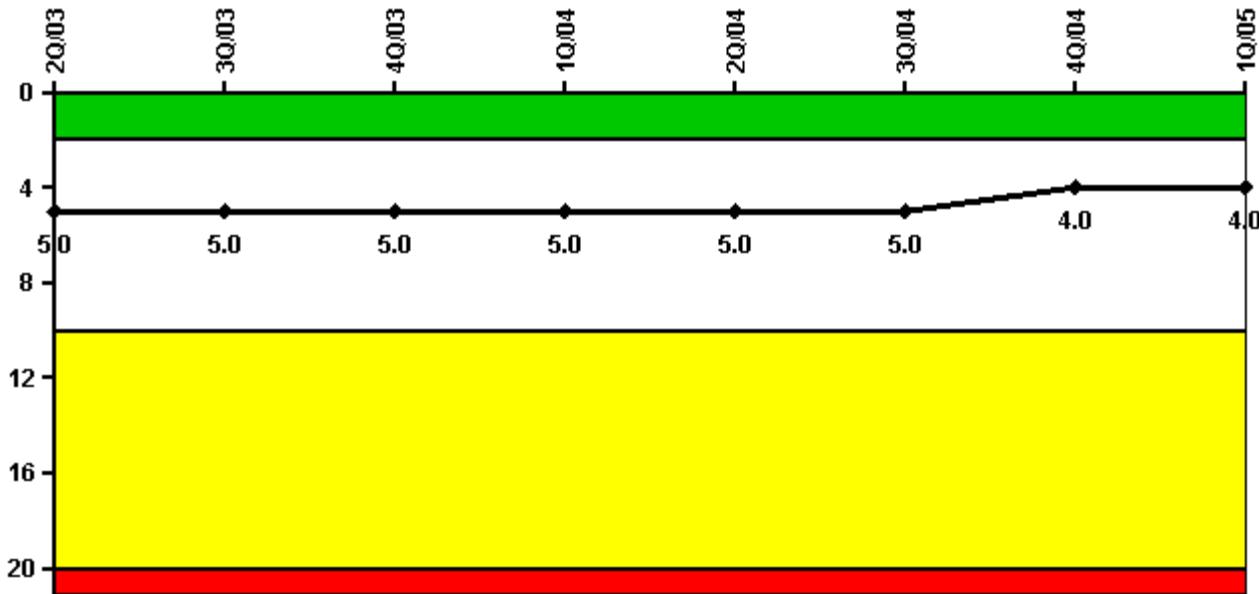
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Unplanned scrams	1.0	0	1.0	1.0	1.0	0	0	0
Critical hours	824.0	1832.1	2174.5	2052.7	2059.3	2208.0	1145.9	2135.0
Indicator value	3.0	2.1	3.1	3.1	2.6	2.5	1.9	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

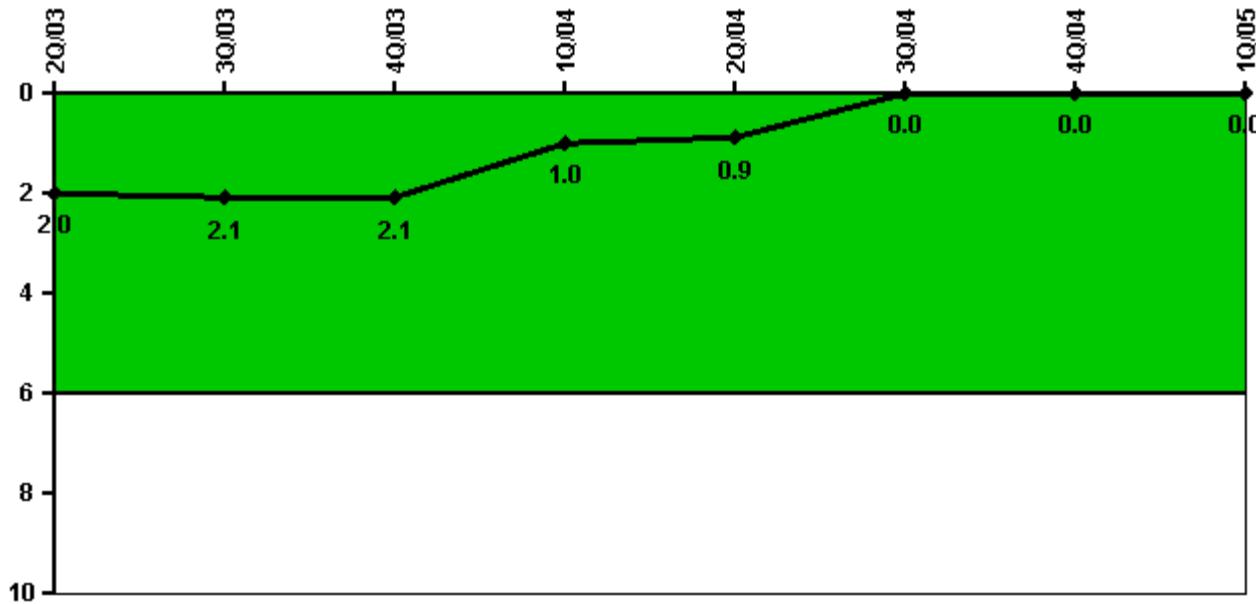
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Scrams	1.0	0	0	0	0	0	0	0
Indicator value	5.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



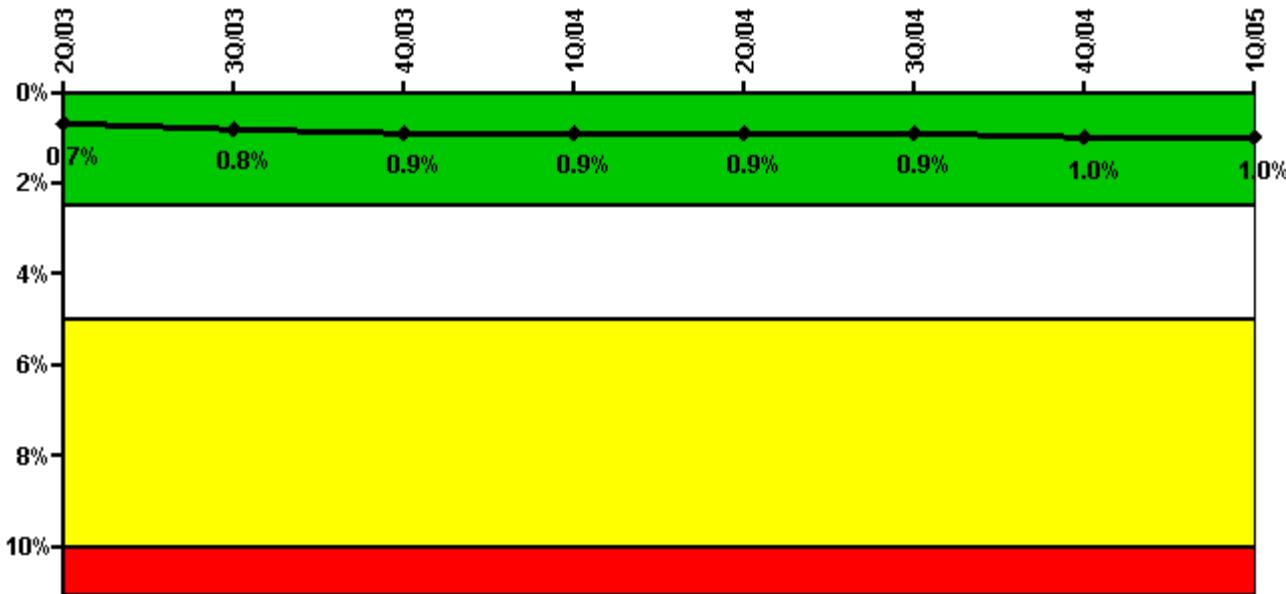
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	824.0	1832.1	2174.5	2052.7	2059.3	2208.0	1145.9	2135.0
Indicator value	2.0	2.1	2.1	1.0	0.9	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



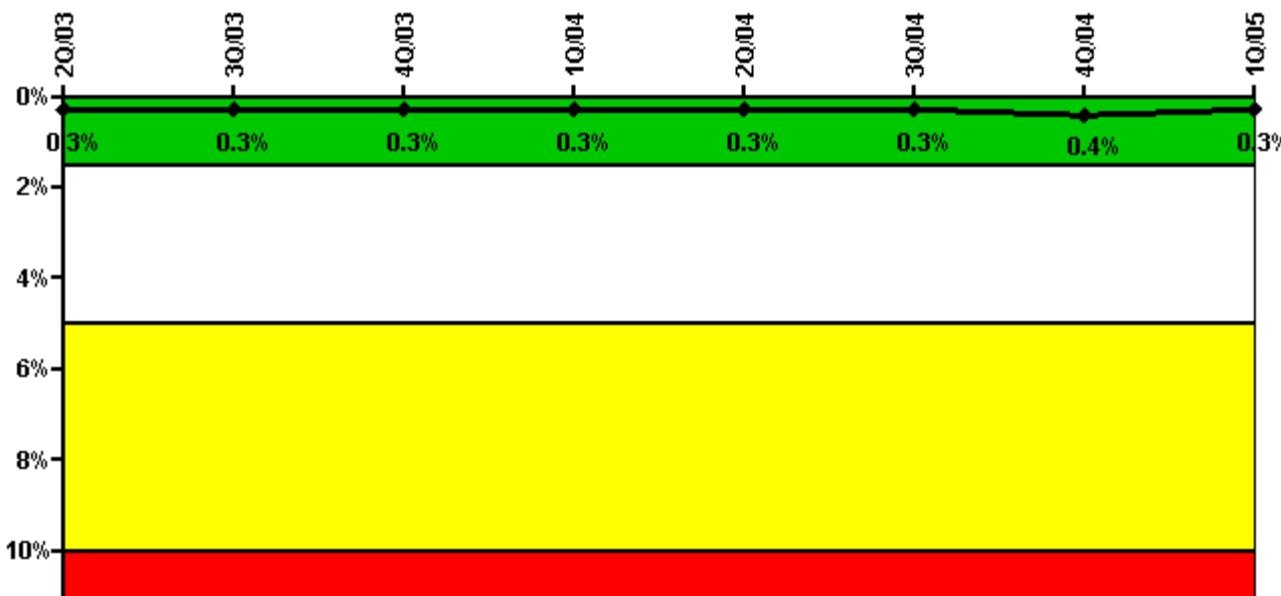
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	0.32	21.99	1.14	18.54	16.29	4.19	18.91	0.90
Unplanned unavailable hours	0	8.63	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2185.00	2208.00	2209.00	2184.00	2183.00	2208.00	1504.18	2160.00
Train 2								
Planned unavailable hours	0.65	9.35	4.91	25.24	0.97	20.29	0.42	17.51
Unplanned unavailable hours	0	0	102.12	0.20	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1079.77	2208.00	2209.00	2184.00	2183.00	2208.00	1989.06	2160.00
Indicator value	0.7%	0.8%	0.9%	0.9%	0.9%	0.9%	1.0%	1.0%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



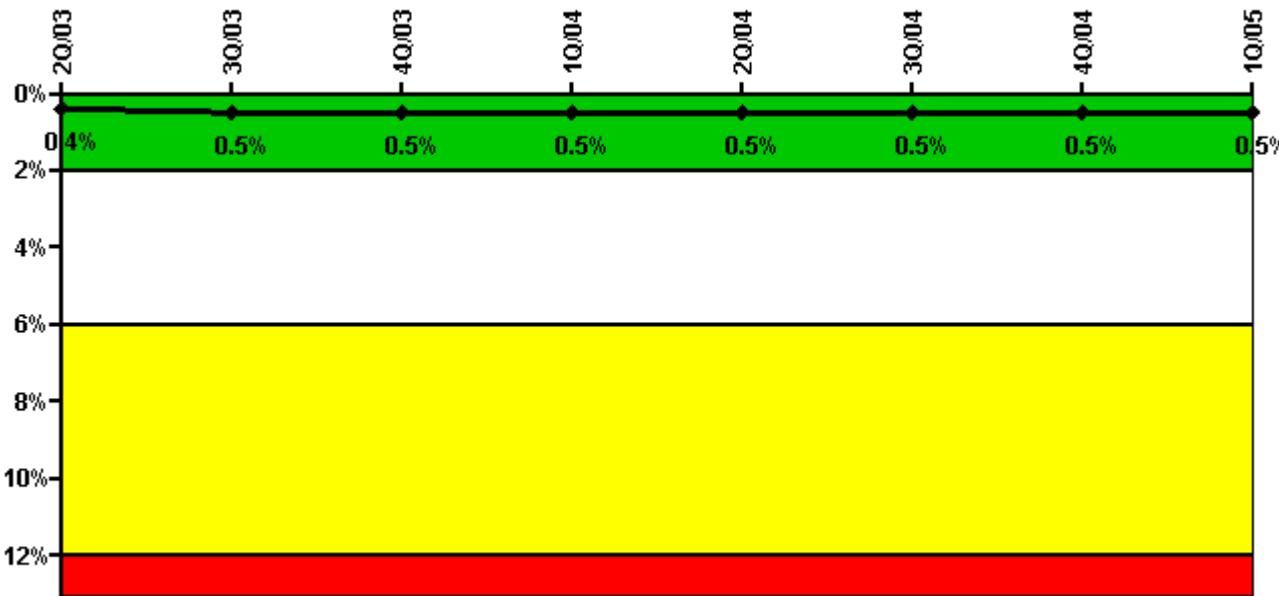
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	3.33	8.58	0	13.35	0	16.75	28.03	0
Unplanned unavailable hours	64.58	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	927.64	2096.37	2209.00	2184.00	2183.00	2208.00	1239.60	2160.00
Train 2								
Planned unavailable hours	10.97	0	3.53	0	25.58	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1007.37	1886.30	2209.00	2184.00	2183.00	2208.00	1284.24	2160.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	4.17	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	912.07	1886.30	2209.00	2184.00	2183.00	2208.00	1239.60	2160.00
Train 4								
Planned unavailable hours	0	9.08	0	0	20.47	6.25	0	0
Unplanned unavailable hours	0	0	13.42	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	912.07	1886.30	2209.00	2184.00	2183.00	2208.00	1239.60	2160.00
Indicator value	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.4%	0.3%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



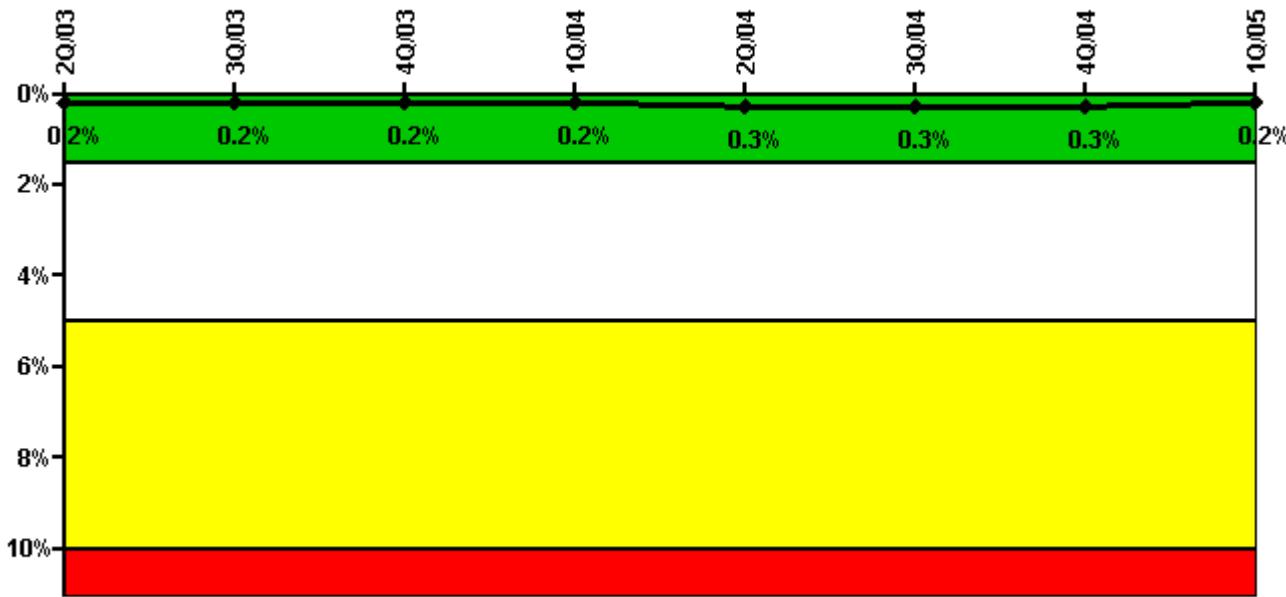
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	0	6.05	4.62	0	11.75	0.55	3.58	8.17
Unplanned unavailable hours	0	0	0.05	0	0	0	0	1.08
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	912.07	1886.30	2209.00	2184.00	2183.00	2208.00	1239.60	2160.00
Train 2								
Planned unavailable hours	0	0	0	5.53	0	17.27	0	11.05
Unplanned unavailable hours	0	0	0.07	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	912.07	1886.30	2209.00	2184.00	2183.00	2208.00	1239.60	2160.00
Train 3								
Planned unavailable hours	0	0	20.90	0	16.00	13.47	0	32.35
Unplanned unavailable hours	0	0	0	0	8.35	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	912.07	1886.30	2209.00	2184.00	2183.00	2208.00	1239.60	2160.00
Indicator value	0.4%	0.5%						

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

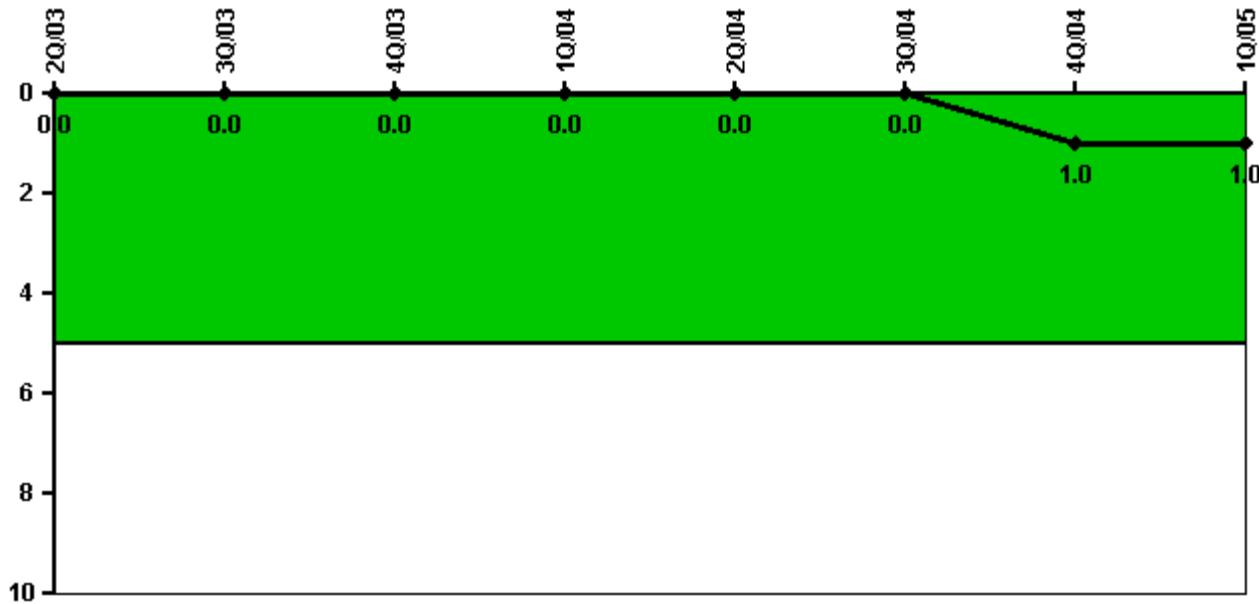


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	0	0	0	0	17.28	4.48	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1838.30	2208.00	2209.00	2184.00	2183.00	2208.00	1933.22	2160.00
Train 2								
Planned unavailable hours	0	10.67	14.18	0	8.15	5.30	4.20	0
Unplanned unavailable hours	0	0	17.45	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1838.30	2208.00	2209.00	2184.00	2183.00	2208.00	1933.22	2160.00
Indicator value	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)

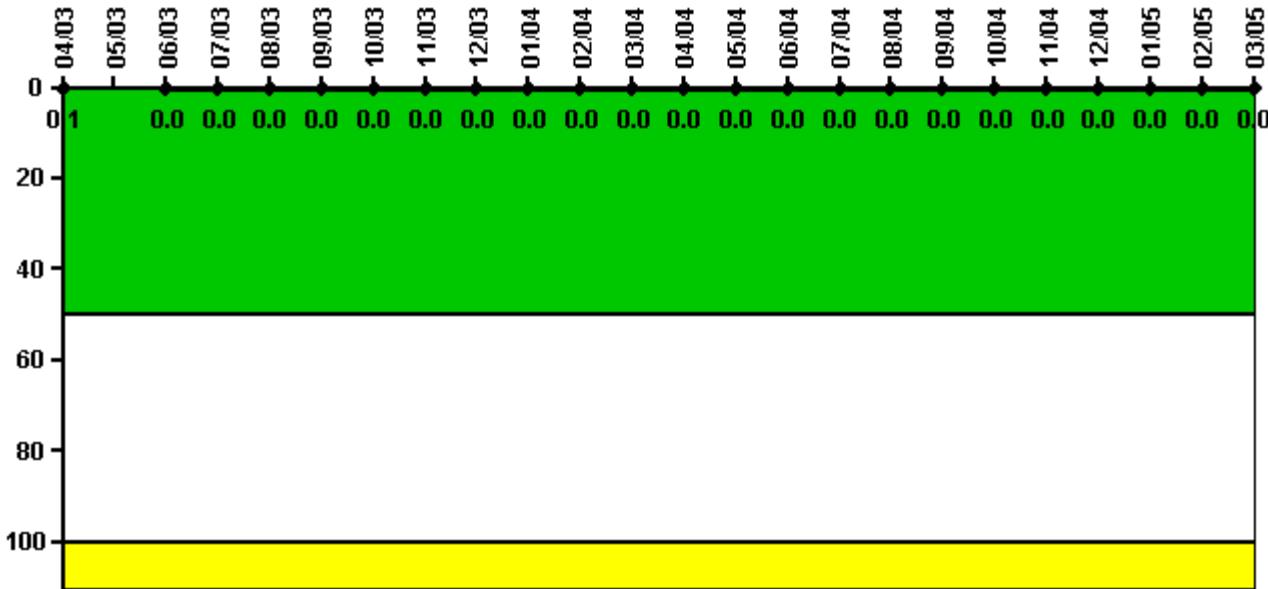
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Safety System Functional Failures	0	0	0	0	0	0	1	0
Indicator value	0	0	0	0	0	0	1	1

Licensee Comments: none

Reactor Coolant System Activity

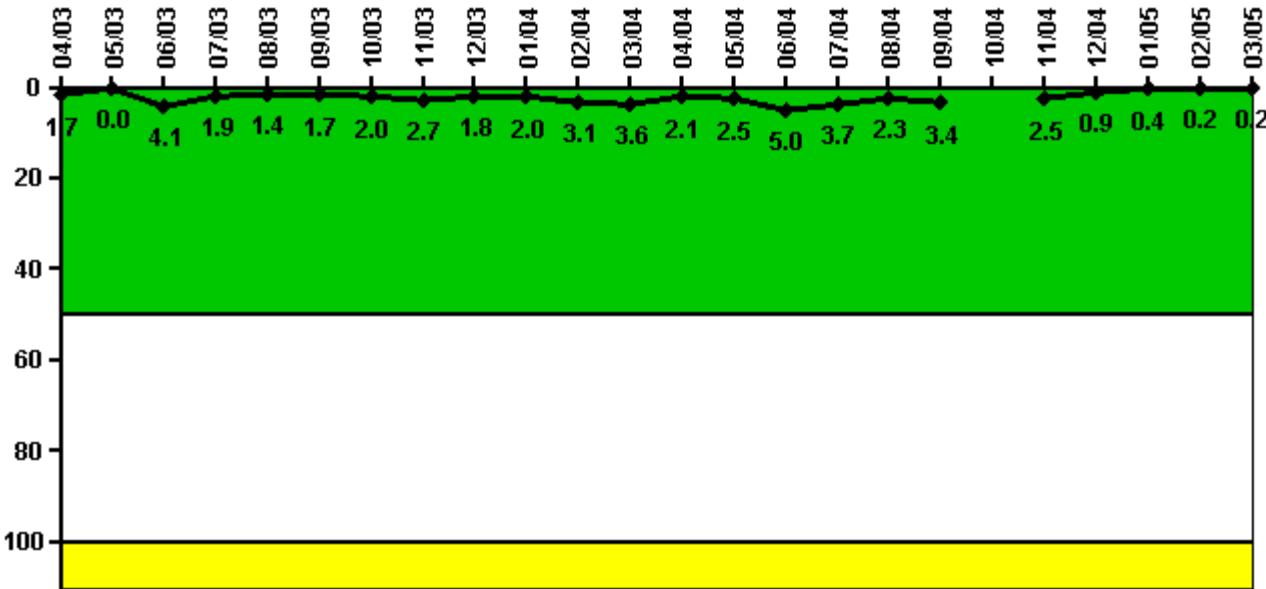


Thresholds: White > 50.0 Yellow > 100.0

Notes

Licensee Comments: none

Reactor Coolant System Leakage



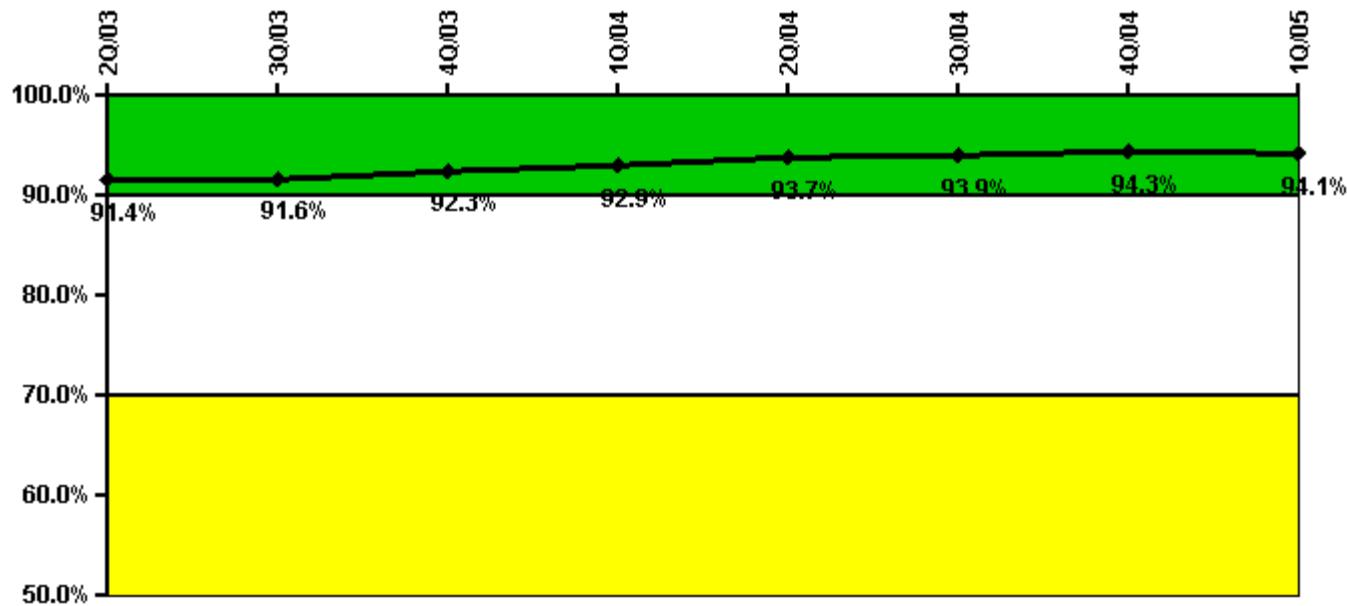
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04
Maximum leakage	0.184	0	0.450	0.211	0.152	0.190	0.220	0.294	0.193	0.225	0.336	0.399
Indicator value	1.7	0	4.1	1.9	1.4	1.7	2.0	2.7	1.8	2.0	3.1	3.6
Reactor Coolant System Leakage	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05
Maximum leakage	0.226	0.276	0.551	0.408	0.257	0.369	N/A	0.274	0.096	0.039	0.020	0.019
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	2.1	2.5	5.0	3.7	2.3	3.4	N/A	2.5	0.9	0.4	0.2	0.2

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

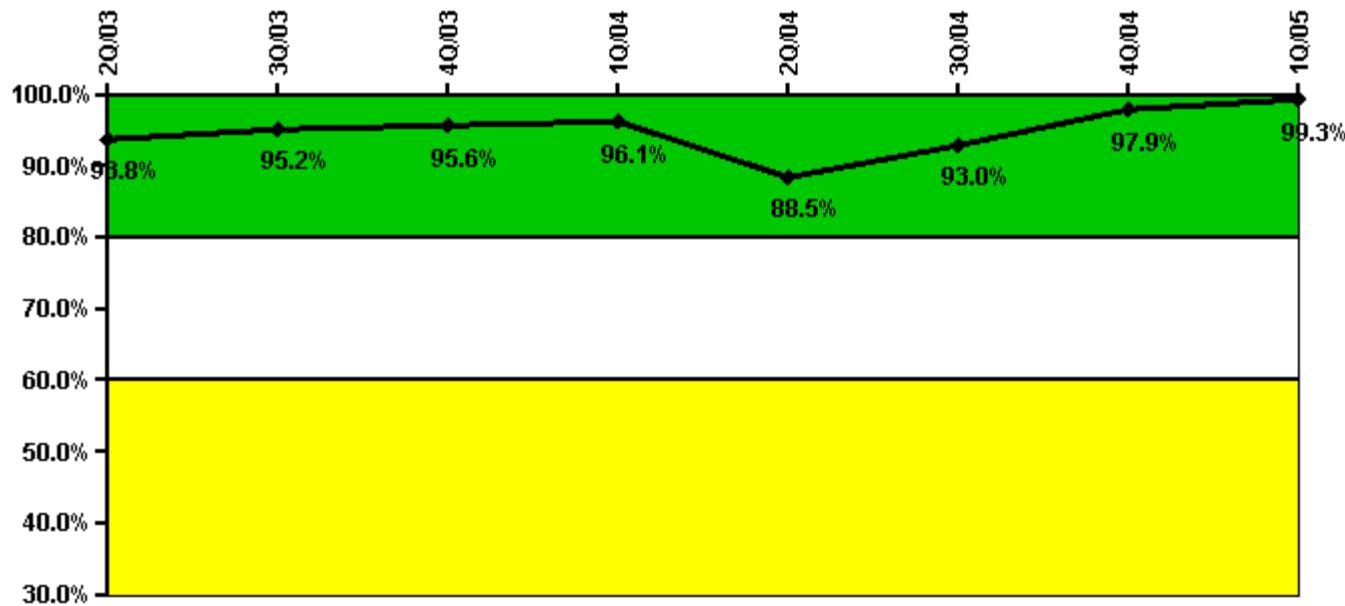
Notes

Drill/Exercise Performance	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful opportunities	30.0	176.0	83.0	132.0	83.0	74.0	67.0	89.0
Total opportunities	33.0	192.0	90.0	137.0	89.0	78.0	68.0	93.0
Indicator value	91.4%	91.6%	92.3%	92.9%	93.7%	93.9%	94.3%	94.1%

Licensee Comments:

4Q/04: The December data was updated to capture 6 previously uncounted performance opportunities.

ERO Drill Participation



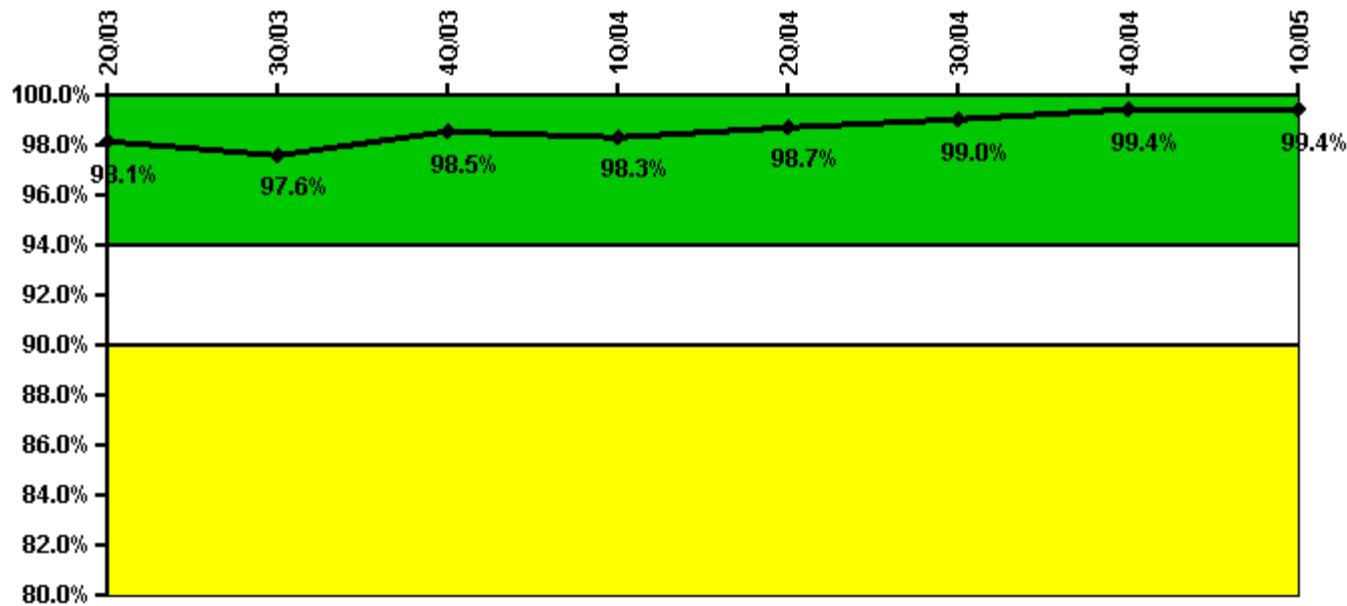
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Participating Key personnel	135.0	138.0	129.0	124.0	131.0	133.0	138.0	151.0
Total Key personnel	144.0	145.0	135.0	129.0	148.0	143.0	141.0	152.0
Indicator value	93.8%	95.2%	95.6%	96.1%	88.5%	93.0%	97.9%	99.3%

Licensee Comments: none

Alert & Notification System

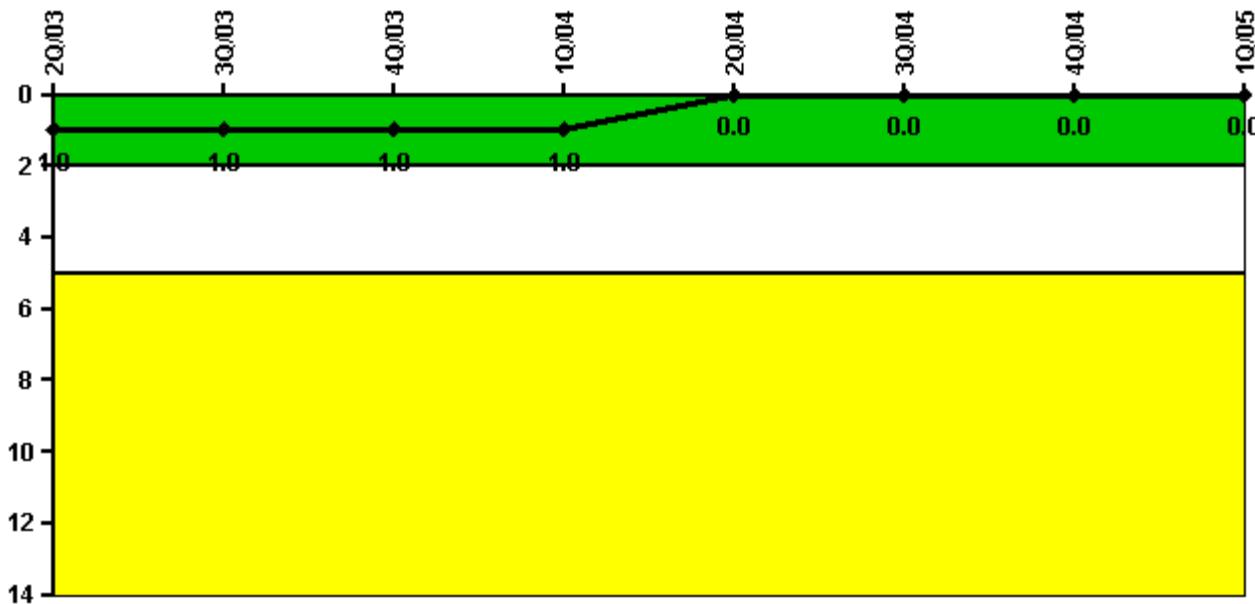


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful siren-tests	205	205	207	209	208	208	210	209
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	98.1%	97.6%	98.5%	98.3%	98.7%	99.0%	99.4%	99.4%

Licensee Comments: none

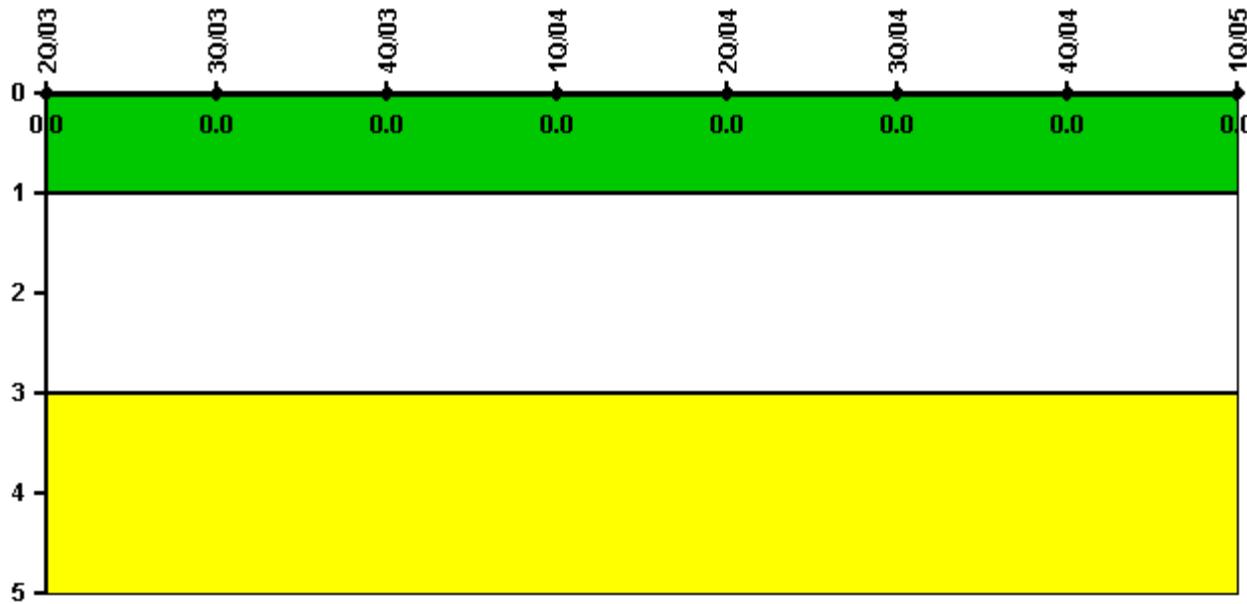
Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	1	0	0	0	0	0	0	0
Indicator value	1	1	1	1	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

[Physical Protection](#) information not publicly available.

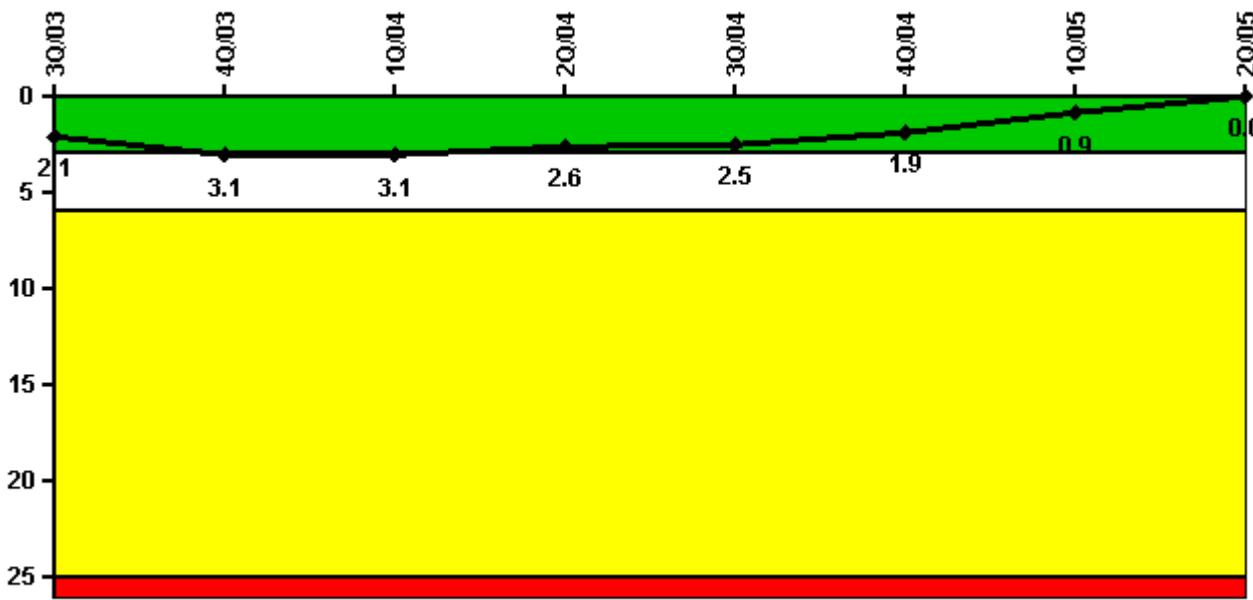


[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: June 17, 2005

D.C. Cook 2**2Q/2005 Performance Indicators**

Licensee's General Comments: none

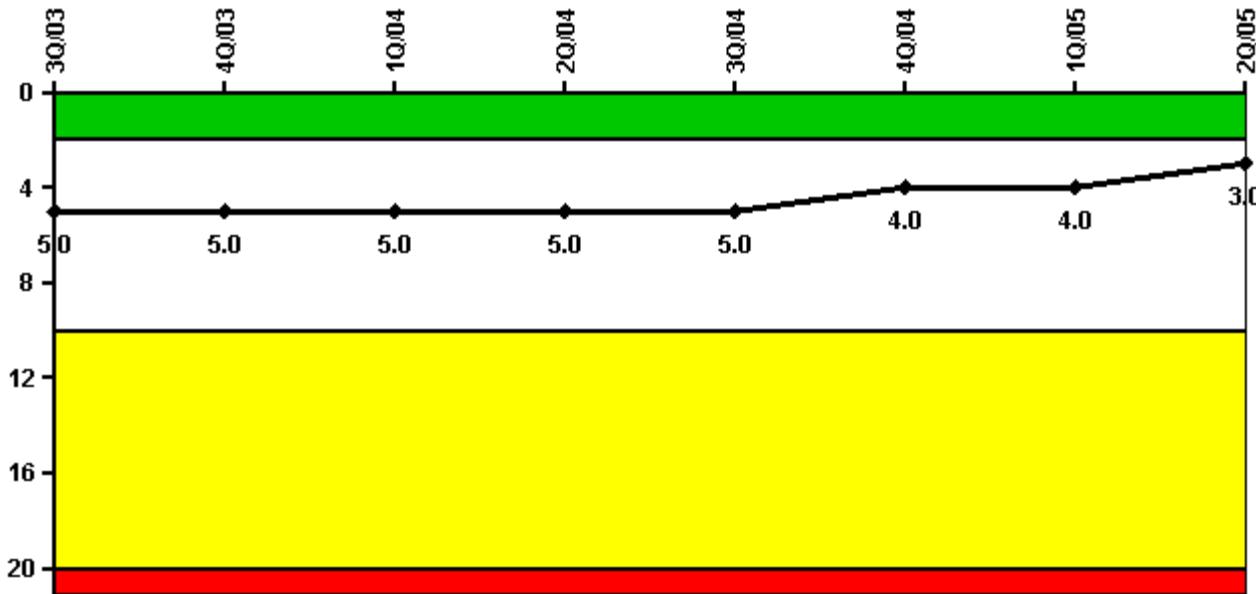
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned scrams	0	1.0	1.0	1.0	0	0	0	0
Critical hours	1832.1	2174.5	2052.7	2059.3	2208.0	1145.9	2135.0	2183.0
Indicator value	2.1	3.1	3.1	2.6	2.5	1.9	0.9	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

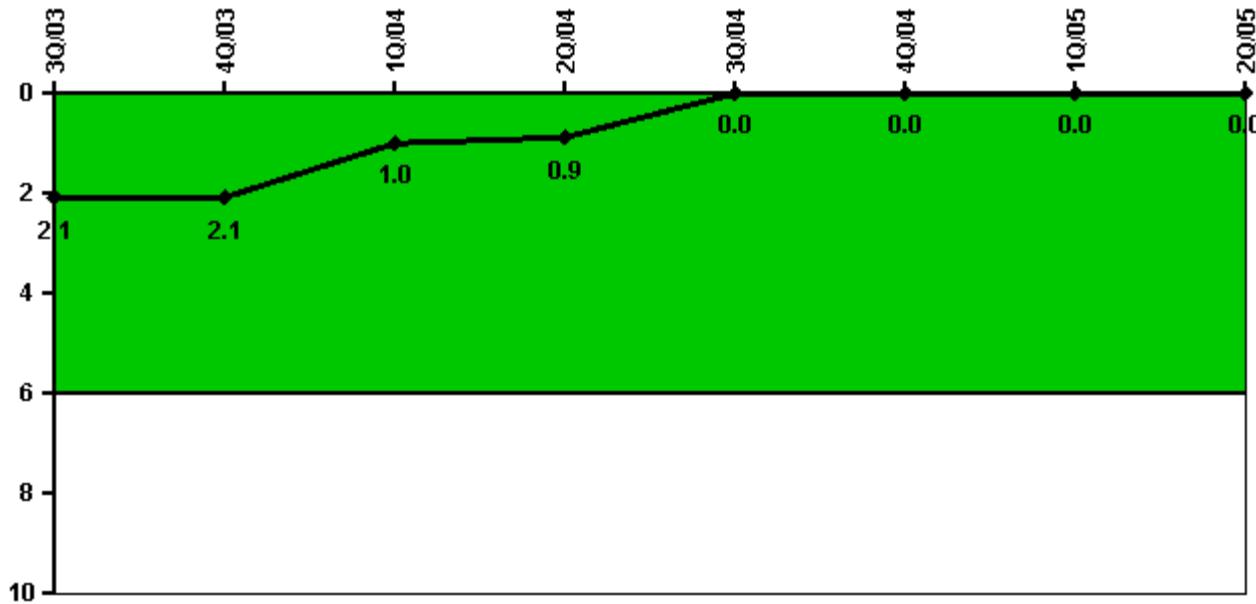
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	5.0	5.0	5.0	5.0	5.0	4.0	4.0	3.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



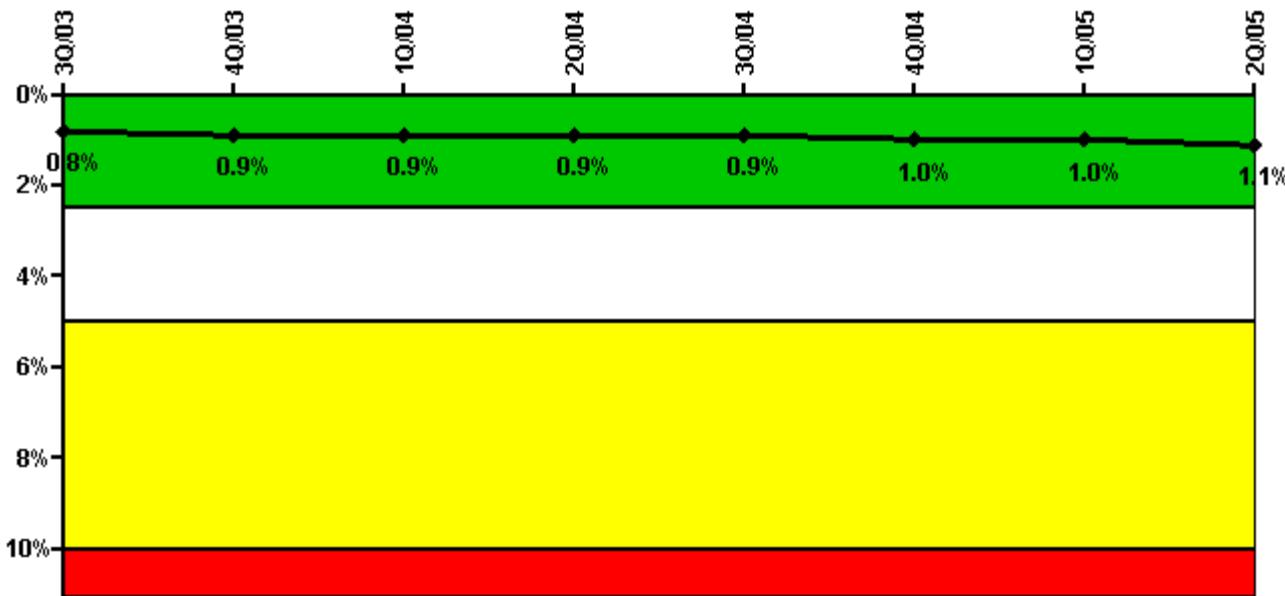
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	1832.1	2174.5	2052.7	2059.3	2208.0	1145.9	2135.0	2183.0
Indicator value	2.1	2.1	1.0	0.9	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



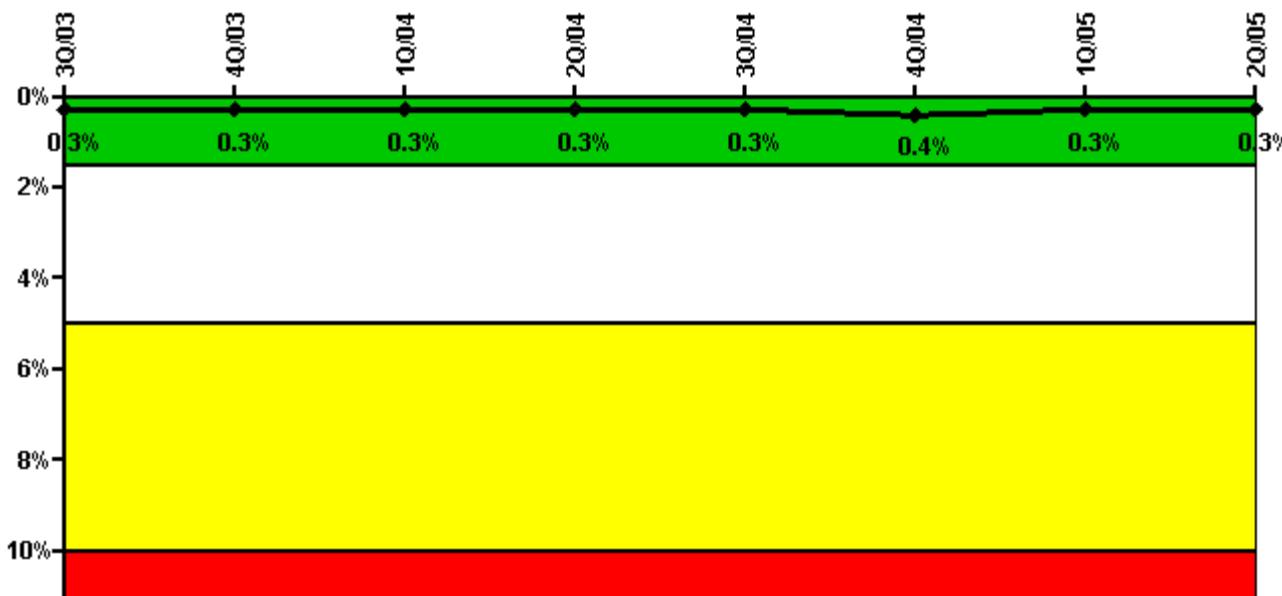
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	21.99	1.14	18.54	16.29	4.19	18.91	0.90	26.00
Unplanned unavailable hours	8.63	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	1504.18	2160.00	2183.00
Train 2								
Planned unavailable hours	9.35	4.91	25.24	0.97	20.29	0.42	17.51	19.56
Unplanned unavailable hours	0	102.12	0.20	0	0	0	0	23.55
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	1989.06	2160.00	2183.00
Indicator value	0.8%	0.9%	0.9%	0.9%	0.9%	1.0%	1.0%	1.1%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



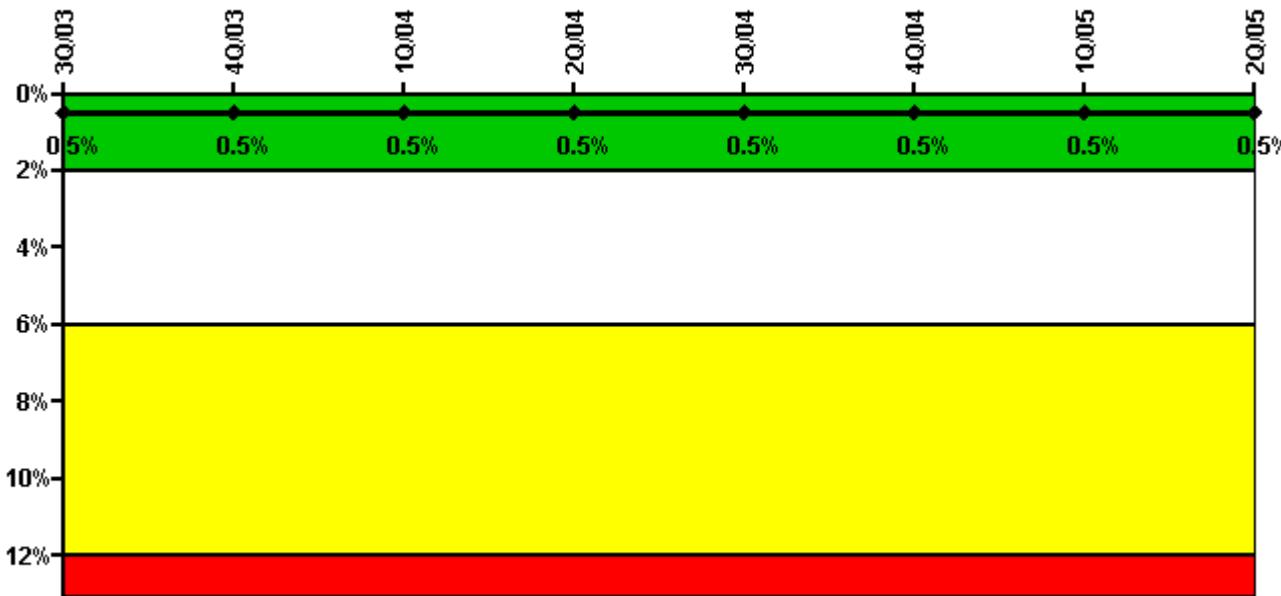
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	8.58	0	13.35	0	16.75	28.03	0	8.18
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2096.37	2209.00	2184.00	2183.00	2208.00	1239.60	2160.00	2183.00
Train 2								
Planned unavailable hours	0	3.53	0	25.58	0	0	0	9.67
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1886.30	2209.00	2184.00	2183.00	2208.00	1284.24	2160.00	2183.00
Train 3								
Planned unavailable hours	0	0	0	0	0	4.17	0	1.70
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1886.30	2209.00	2184.00	2183.00	2208.00	1239.60	2160.00	2183.00
Train 4								
Planned unavailable hours	9.08	0	0	20.47	6.25	0	0	6.33
Unplanned unavailable hours	0	13.42	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1886.30	2209.00	2184.00	2183.00	2208.00	1239.60	2160.00	2183.00
Indicator value	0.3%	0.3%	0.3%	0.3%	0.3%	0.4%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



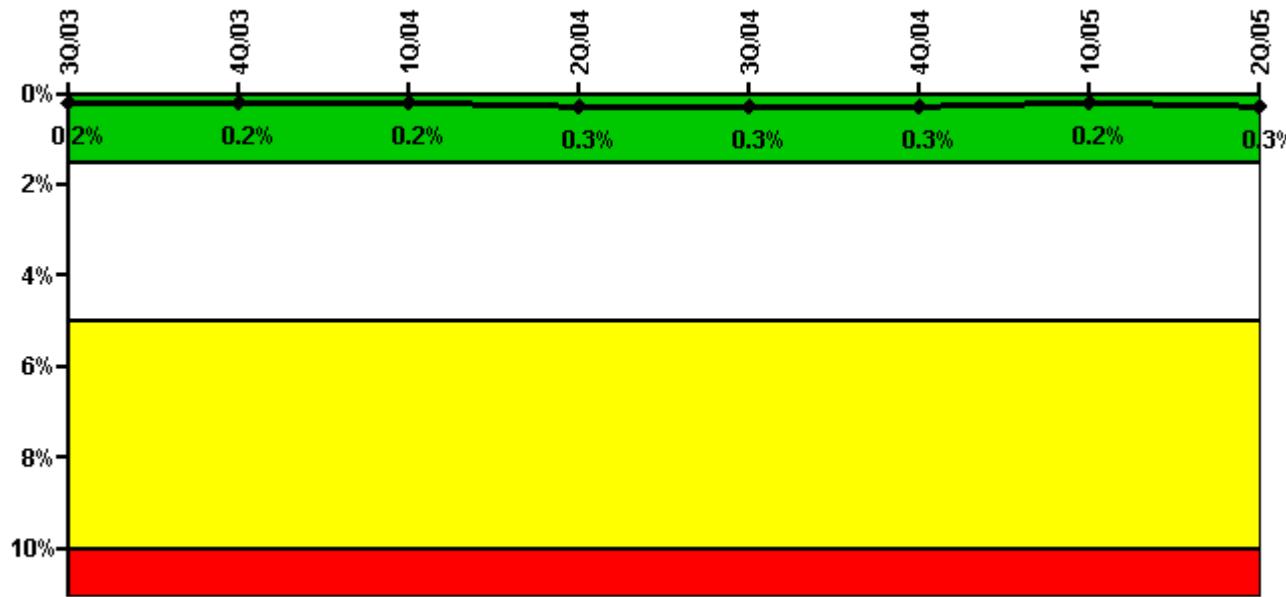
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)		3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1									
Planned unavailable hours		6.05	4.62	0	11.75	0.55	3.58	8.17	15.13
Unplanned unavailable hours		0	0.05	0	0	0	0	1.08	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		1886.30	2209.00	2184.00	2183.00	2208.00	1239.60	2160.00	2183.00
Train 2									
Planned unavailable hours		0	0	5.53	0	17.27	0	11.05	8.23
Unplanned unavailable hours		0	0.07	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		1886.30	2209.00	2184.00	2183.00	2208.00	1239.60	2160.00	2183.00
Train 3									
Planned unavailable hours		0	20.90	0	16.00	13.47	0	32.35	0
Unplanned unavailable hours		0	0	0	8.35	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		1886.30	2209.00	2184.00	2183.00	2208.00	1239.60	2160.00	2183.00
Indicator value		0.5%							

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

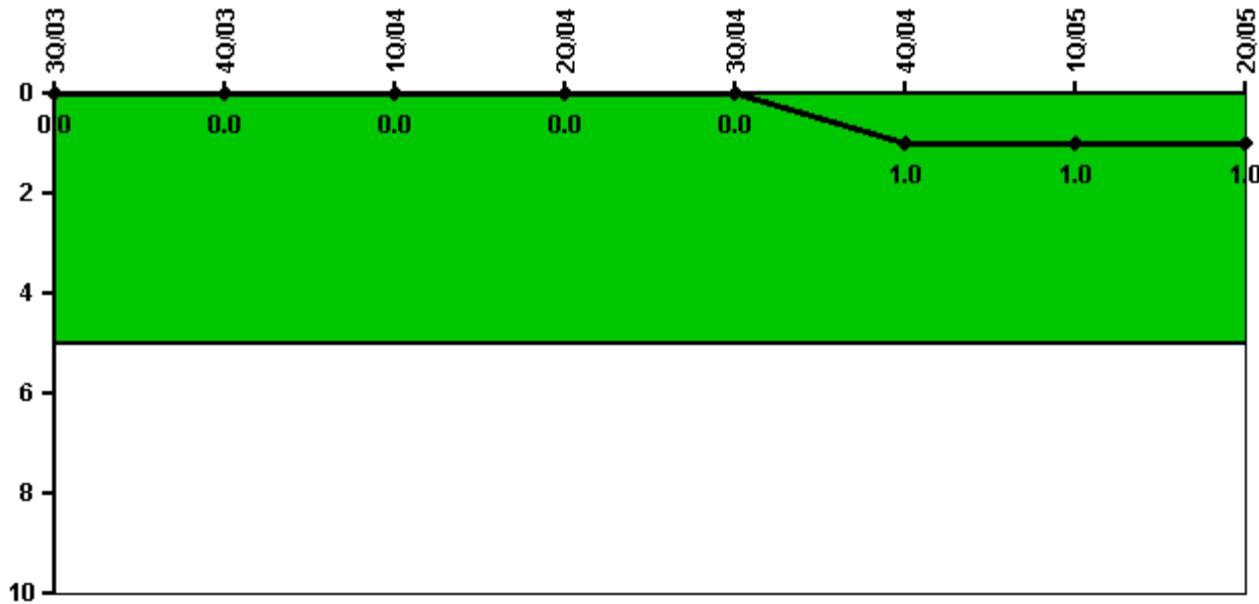


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	0	0	0	17.28	4.48	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	1933.22	2160.00	2183.00
Train 2								
Planned unavailable hours	10.67	14.18	0	8.15	5.30	4.20	0	16.54
Unplanned unavailable hours	0	17.45	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	1933.22	2160.00	2183.00
Indicator value	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%	0.2%	0.3%

Licensee Comments: none

Safety System Functional Failures (PWR)

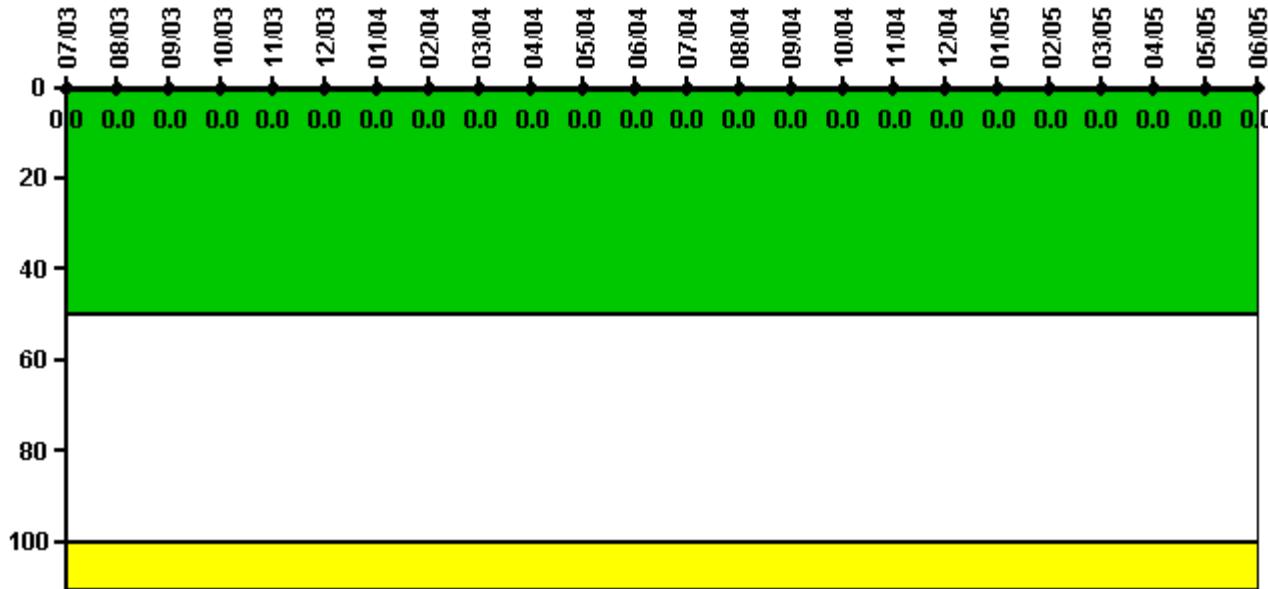
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Safety System Functional Failures	0	0	0	0	0	1	0	0
Indicator value	0	0	0	0	0	1	1	1

Licensee Comments: none

Reactor Coolant System Activity



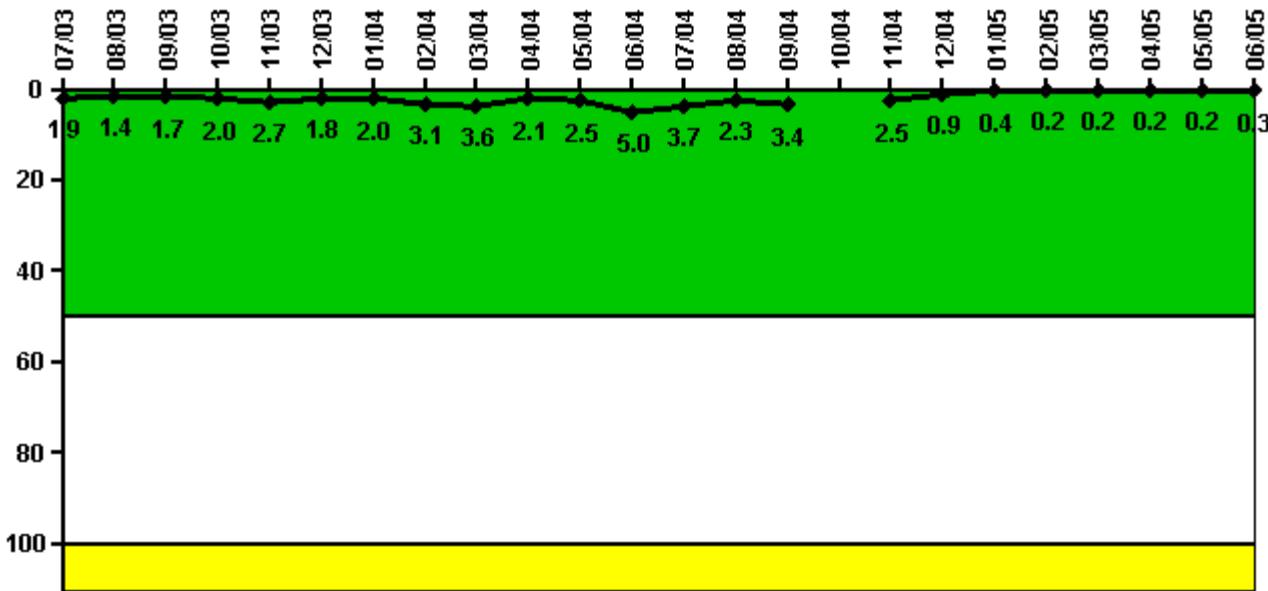
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum activity	0.000217	0.000175	0.000188	0.000196	0.000201	0.000215	0.000219	0.000242	0.000243	0.000385	0.000247	0.000261
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05
Maximum activity	0.000283	0.000269	0.000469	0.000241	0.000136	0.000140	0.000150	0.000378	0.000345	0.000176	0.000198	0.000190
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



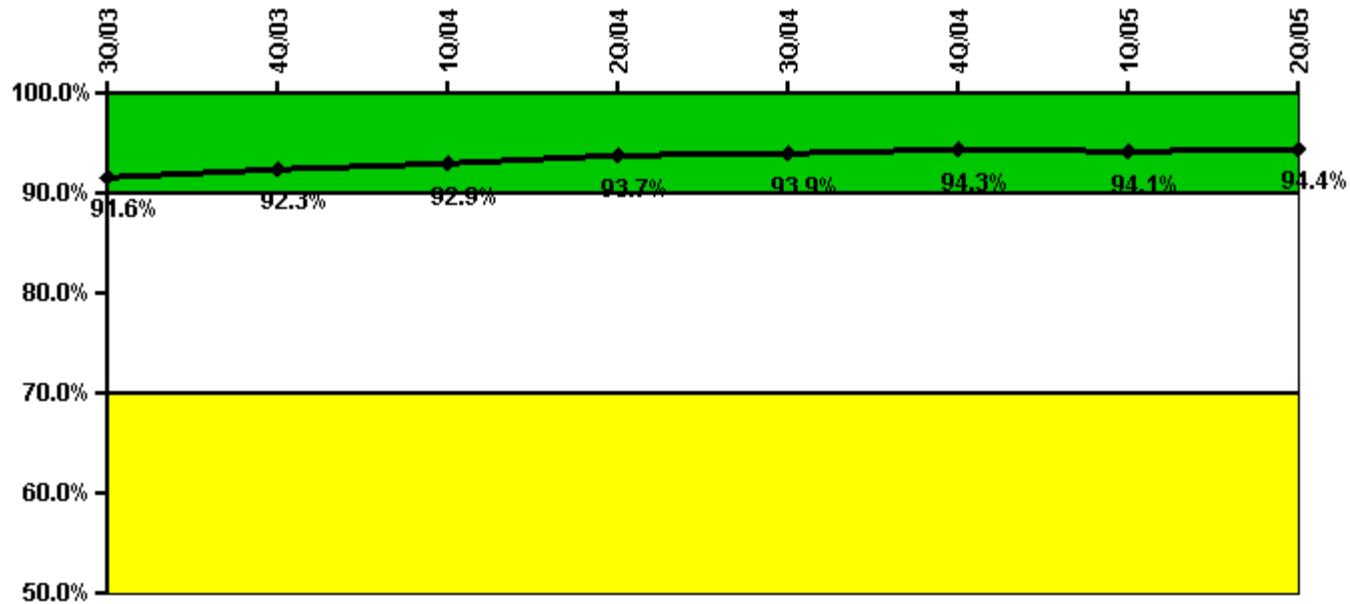
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum leakage	0.211	0.152	0.190	0.220	0.294	0.193	0.225	0.336	0.399	0.226	0.276	0.551
Indicator value	1.9	1.4	1.7	2.0	2.7	1.8	2.0	3.1	3.6	2.1	2.5	5.0
Reactor Coolant System Leakage	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05
Maximum leakage	0.408	0.257	0.369	N/A	0.274	0.096	0.039	0.020	0.019	0.020	0.022	0.034
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	3.7	2.3	3.4	N/A	2.5	0.9	0.4	0.2	0.2	0.2	0.2	0.3

Licensee Comments: none

Drill/Exercise Performance



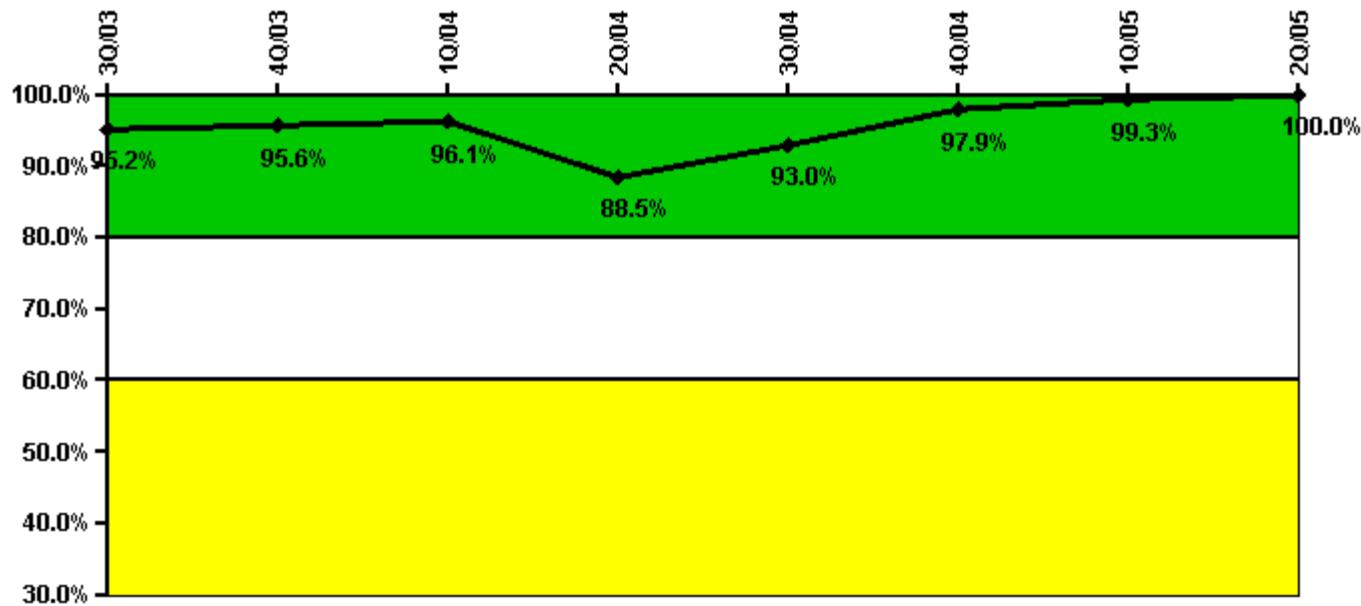
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful opportunities	176.0	83.0	132.0	83.0	74.0	67.0	89.0	88.0
Total opportunities	192.0	90.0	137.0	89.0	78.0	68.0	93.0	92.0
Indicator value	91.6%	92.3%	92.9%	93.7%	93.9%	94.3%	94.1%	94.4%

Licensee Comments: none

ERO Drill Participation



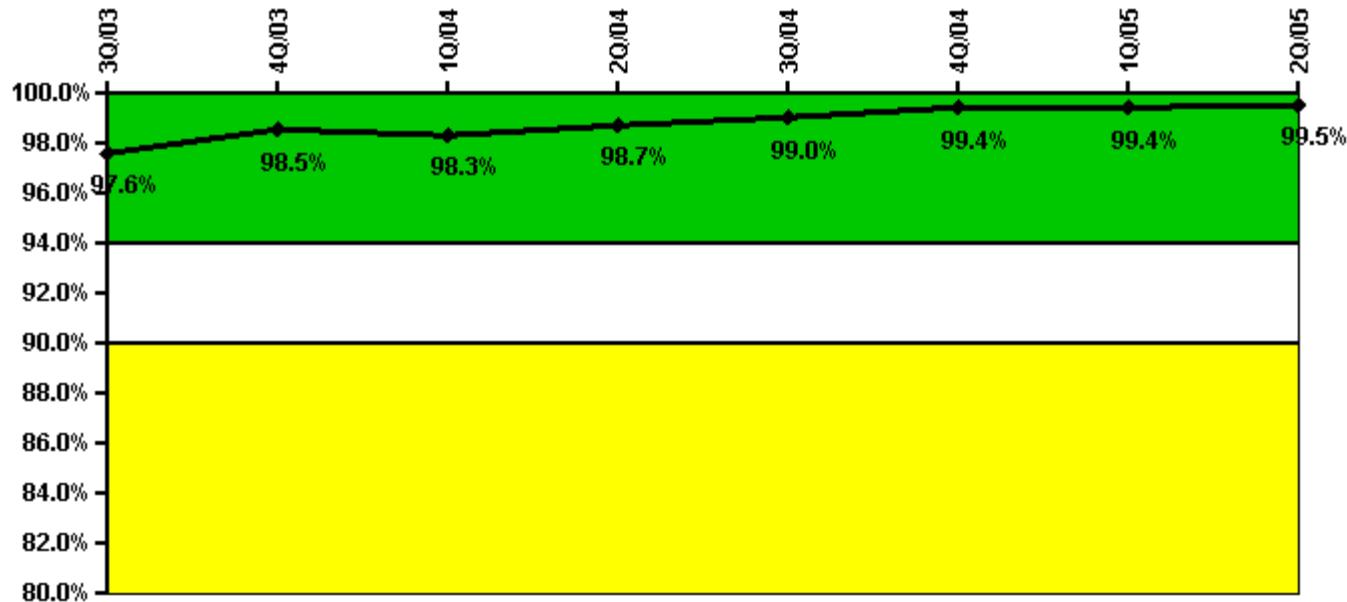
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Participating Key personnel	138.0	129.0	124.0	131.0	133.0	138.0	151.0	146.0
Total Key personnel	145.0	135.0	129.0	148.0	143.0	141.0	152.0	146.0
Indicator value	95.2%	95.6%	96.1%	88.5%	93.0%	97.9%	99.3%	100.0%

Licensee Comments: none

Alert & Notification System

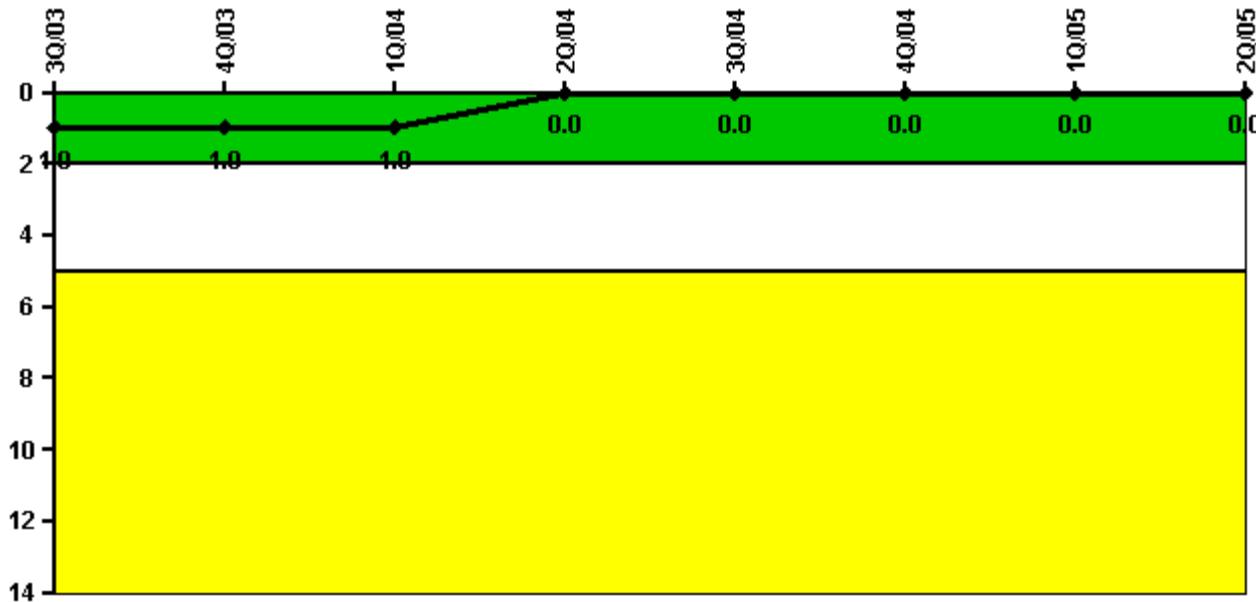


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful siren-tests	205	207	209	208	208	210	209	209
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	97.6%	98.5%	98.3%	98.7%	99.0%	99.4%	99.4%	99.5%

Licensee Comments: none

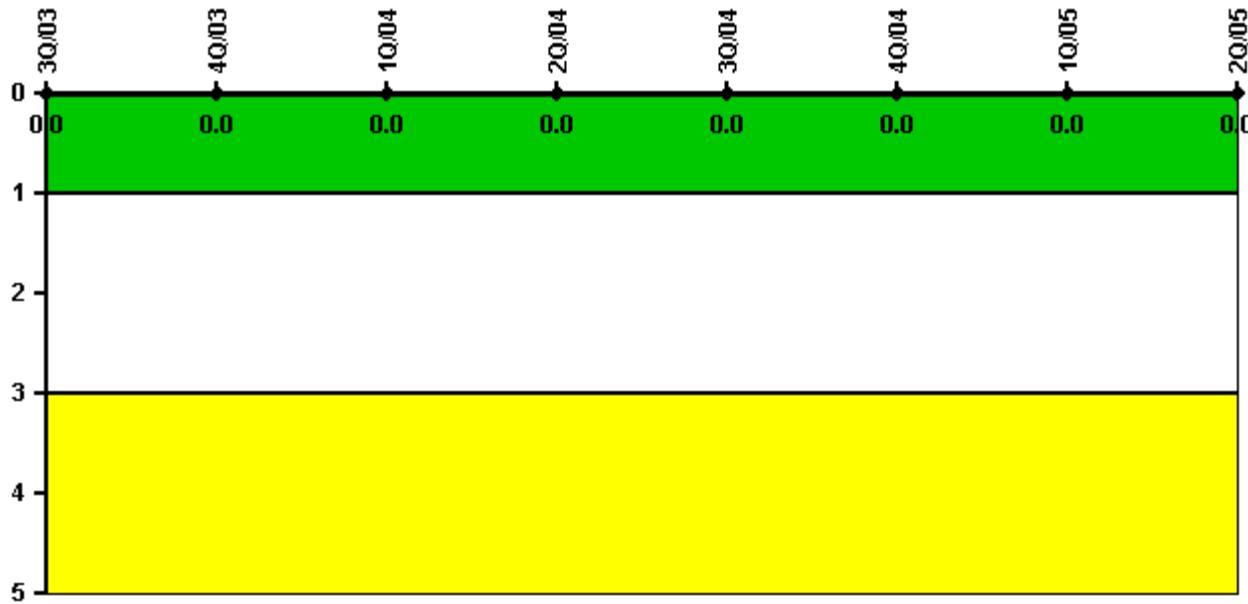
Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	1	1	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

[Physical Protection](#) information not publicly available.

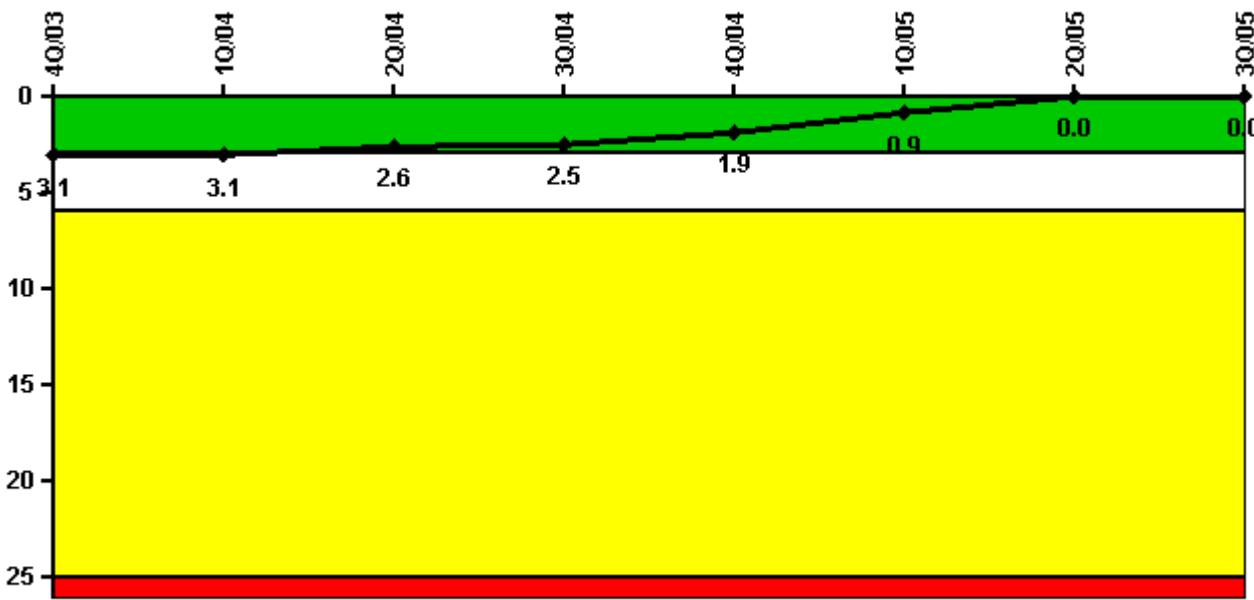


[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: August 3, 2005

D.C. Cook 2**3Q/2005 Performance Indicators**

Licensee's General Comments: none

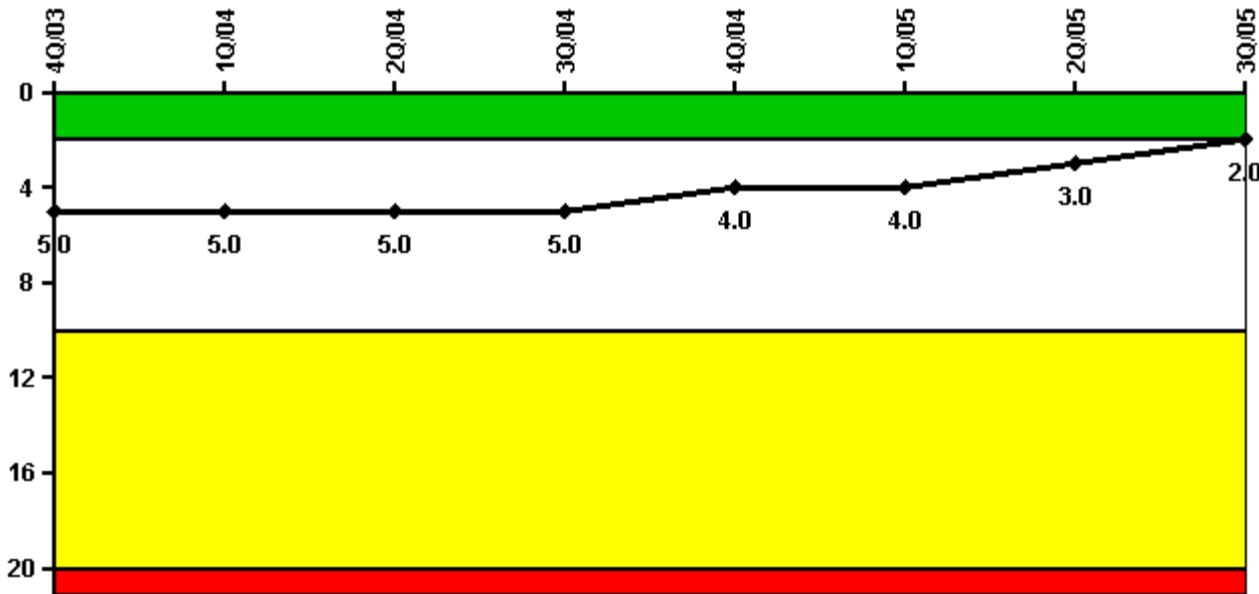
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned scrams	1.0	1.0	1.0	0	0	0	0	0
Critical hours	2174.5	2052.7	2059.3	2208.0	1145.9	2135.0	2183.0	2179.0
Indicator value	3.1	3.1	2.6	2.5	1.9	0.9	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

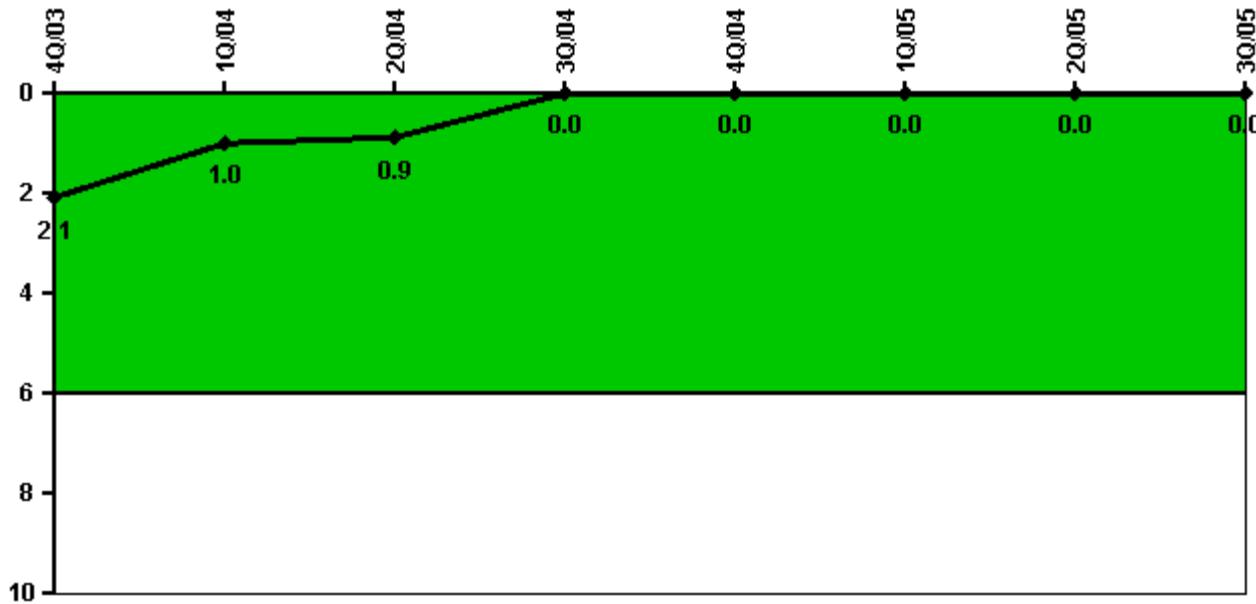
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	5.0	5.0	5.0	5.0	4.0	4.0	3.0	2.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



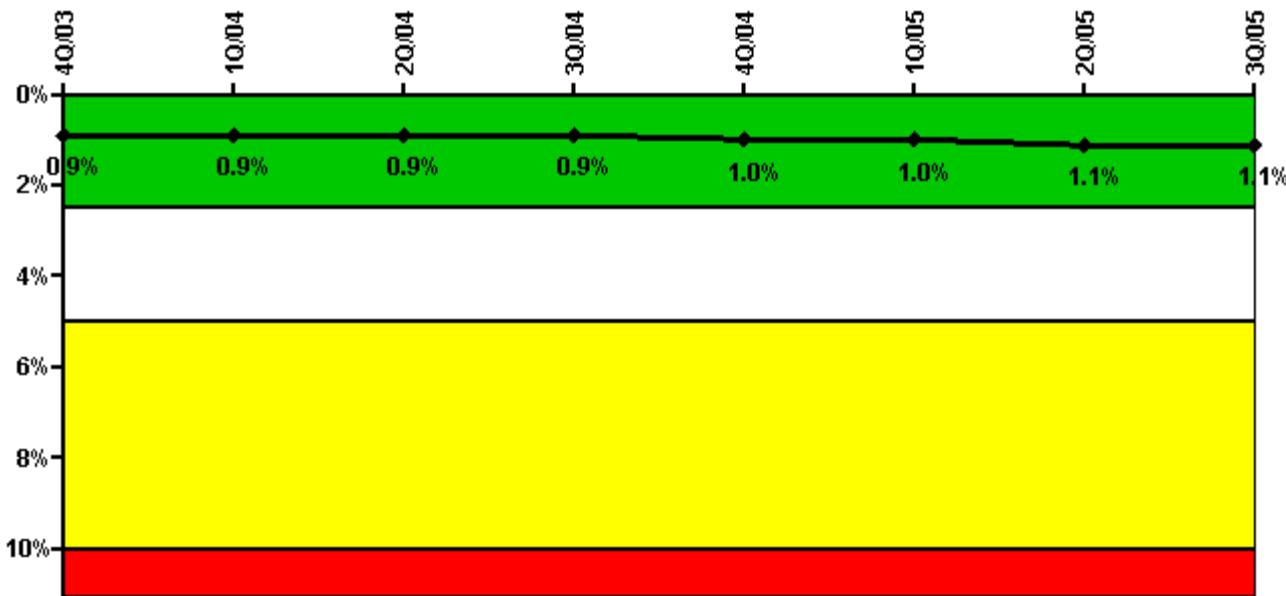
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2174.5	2052.7	2059.3	2208.0	1145.9	2135.0	2183.0	2179.0
Indicator value	2.1	1.0	0.9	0	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



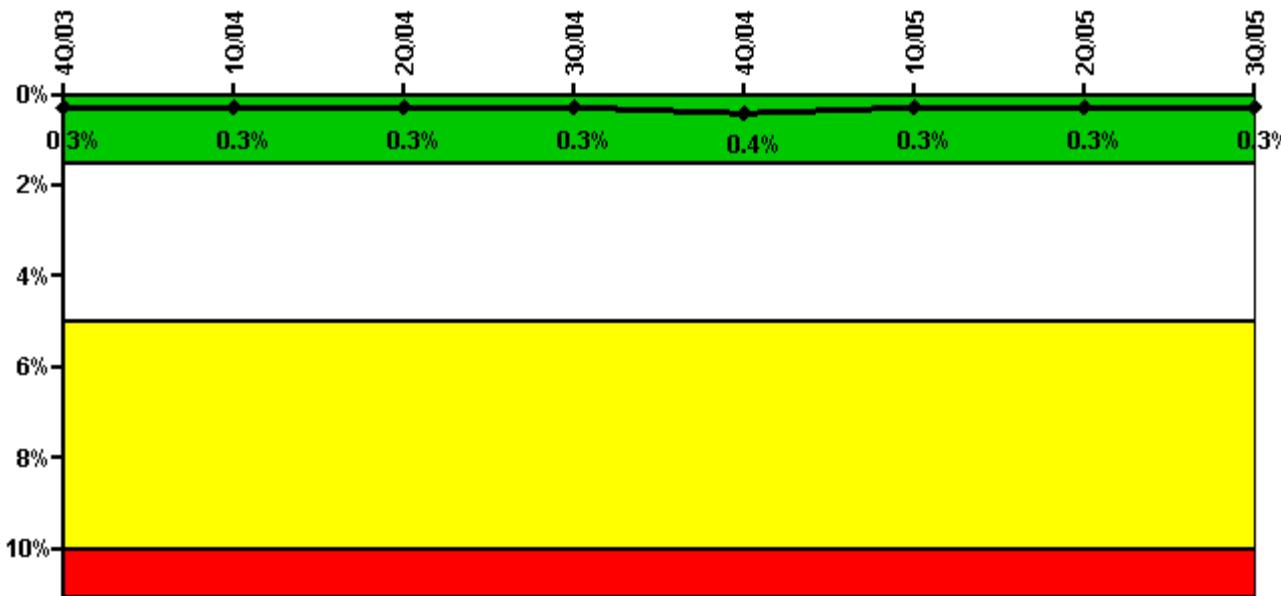
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	1.14	18.54	16.29	4.19	18.91	0.90	26.00	16.06
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1504.18	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	4.91	25.24	0.97	20.29	0.42	17.51	19.56	1.26
Unplanned unavailable hours	102.12	0.20	0	0	0	0	23.55	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1989.06	2160.00	2183.00	2208.00
Indicator value	0.9%	0.9%	0.9%	0.9%	1.0%	1.0%	1.1%	1.1%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



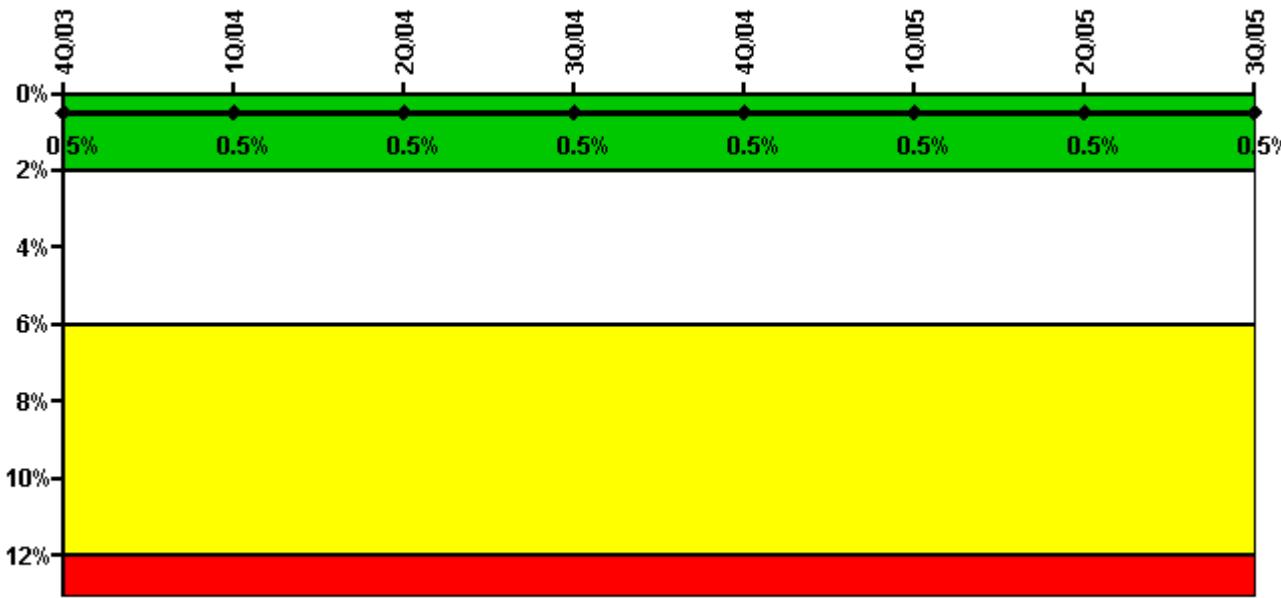
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	0	13.35	0	16.75	28.03	0	8.18	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	3.53	0	25.58	0	0	0	9.67	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1284.24	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	0	0	0	4.17	0	1.70	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00
Train 4								
Planned unavailable hours	0	0	20.47	6.25	0	0	6.33	0
Unplanned unavailable hours	13.42	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00
Indicator value	0.3%	0.3%	0.3%	0.3%	0.4%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



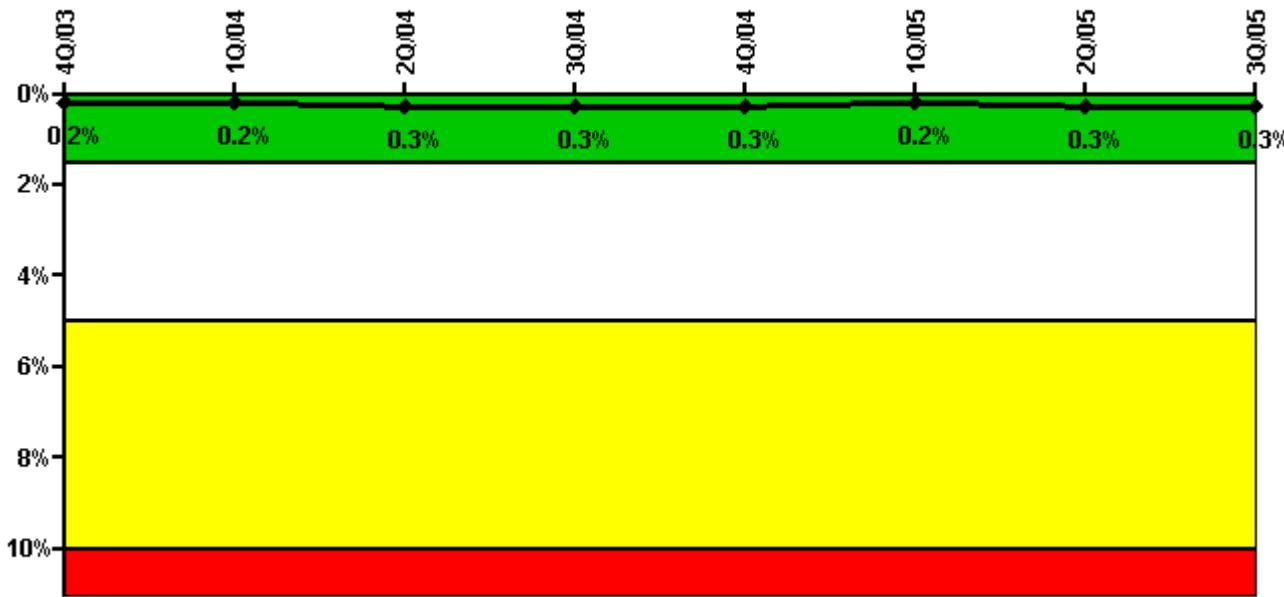
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)		4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1									
Planned unavailable hours		4.62	0	11.75	0.55	3.58	8.17	15.13	0
Unplanned unavailable hours		0.05	0	0	0	0	1.08	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2209.00	2184.00	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00
Train 2									
Planned unavailable hours		0	5.53	0	17.27	0	11.05	8.23	0
Unplanned unavailable hours		0.07	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2209.00	2184.00	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00
Train 3									
Planned unavailable hours		20.90	0	16.00	13.47	0	32.35	0	9.68
Unplanned unavailable hours		0	0	8.35	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2209.00	2184.00	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00
Indicator value		0.5%							

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

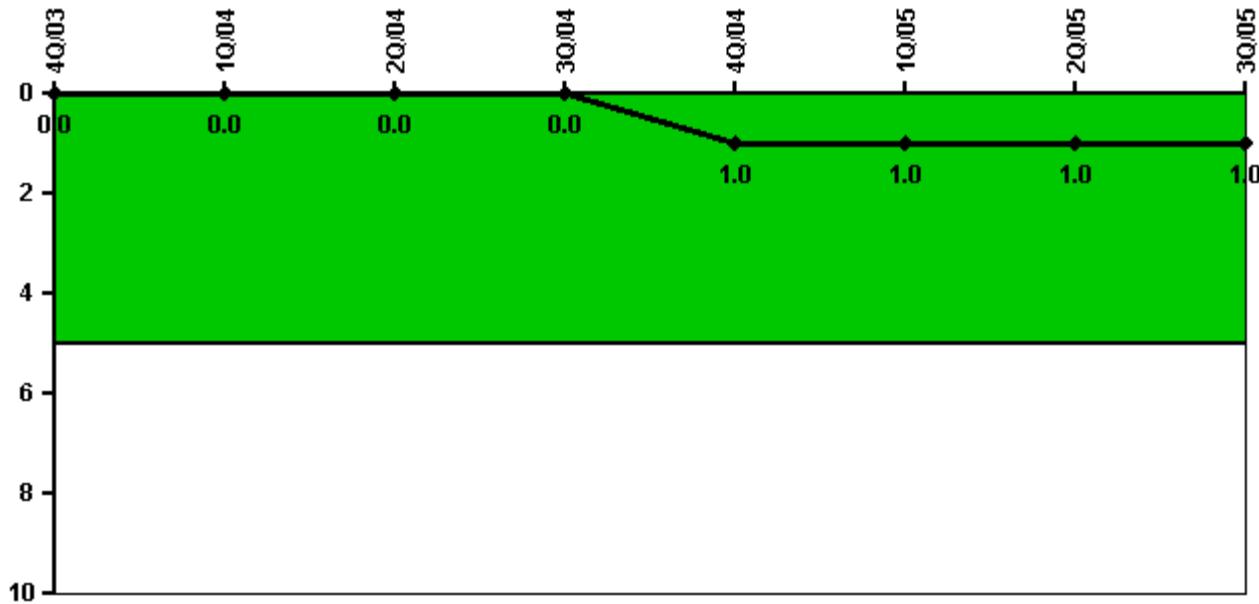


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	0	0	17.28	4.48	0	0	0	15.58
Unplanned unavailable hours	0	0	0	0	0	0	0	7.67
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1933.22	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	14.18	0	8.15	5.30	4.20	0	16.54	0
Unplanned unavailable hours	17.45	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1933.22	2160.00	2183.00	2208.00
Indicator value	0.2%	0.2%	0.3%	0.3%	0.3%	0.2%	0.3%	0.3%

Licensee Comments: none

Safety System Functional Failures (PWR)

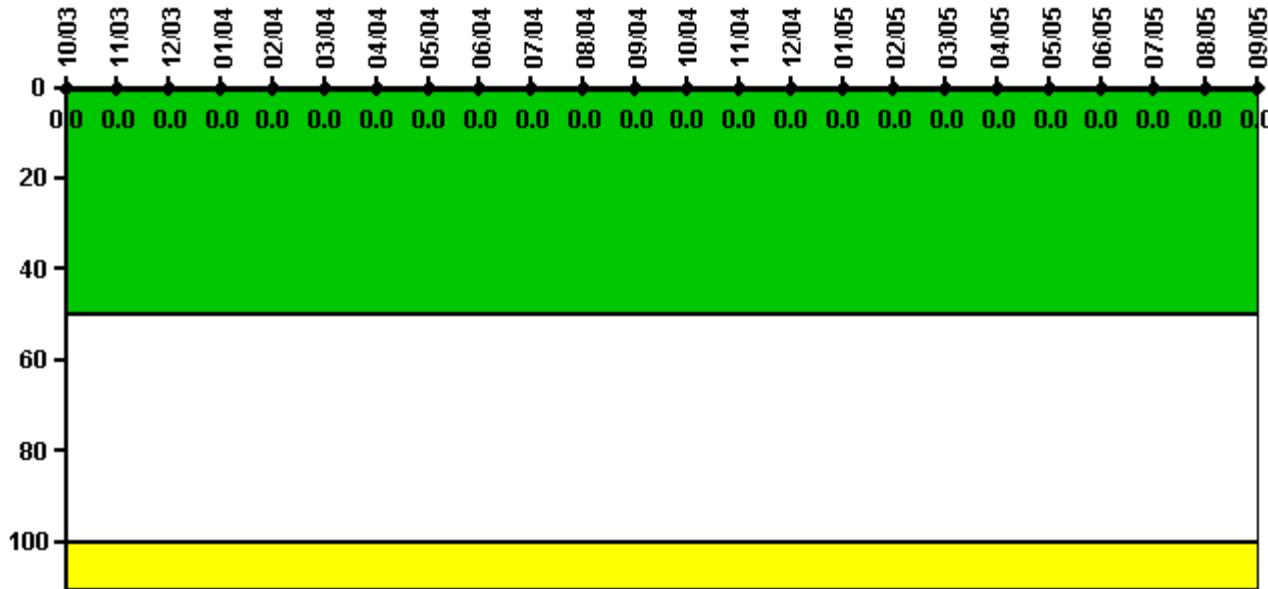
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Safety System Functional Failures	0	0	0	0	1	0	0	0
Indicator value	0	0	0	0	1	1	1	1

Licensee Comments: none

Reactor Coolant System Activity



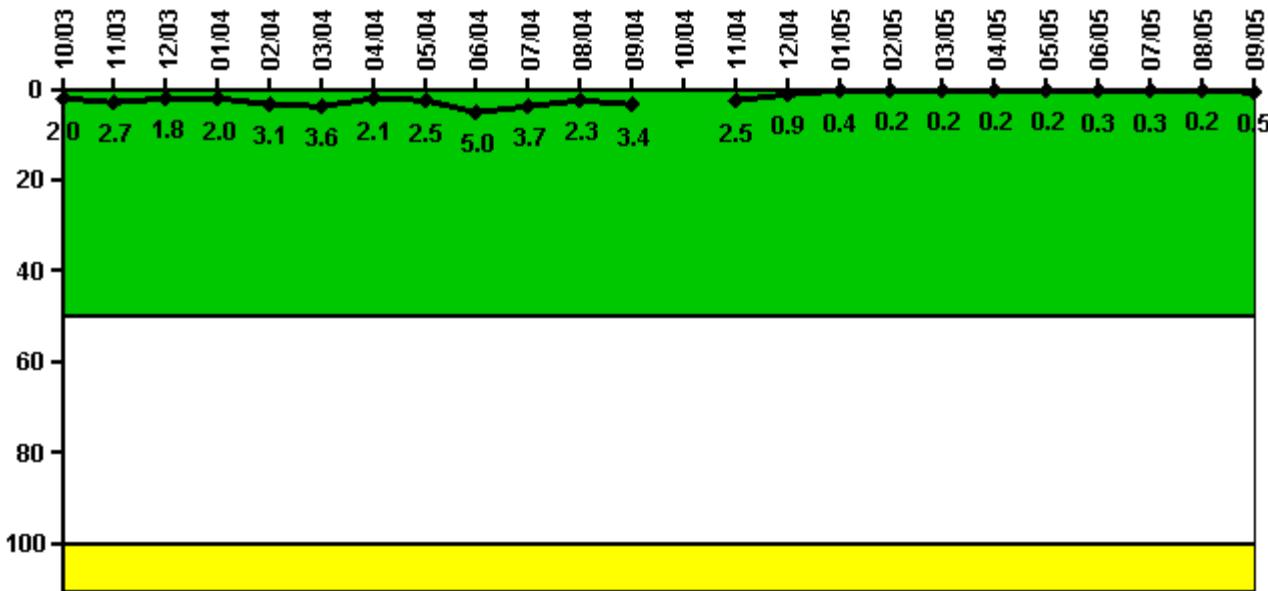
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum activity	0.000196	0.000201	0.000215	0.000219	0.000242	0.000243	0.000385	0.000247	0.000261	0.000283	0.000269	0.000469
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum activity	0.000241	0.000136	0.000140	0.000150	0.000378	0.000345	0.000176	0.000198	0.000190	0.000198	0.000202	0.000204
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



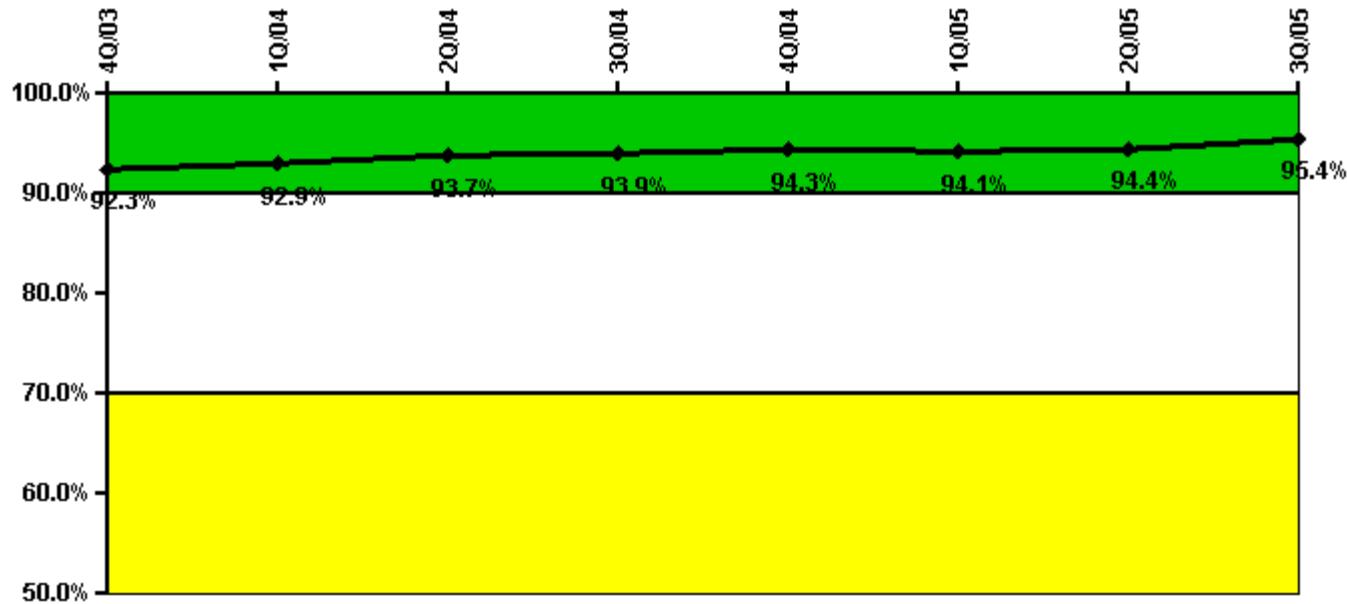
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	0.220	0.294	0.193	0.225	0.336	0.399	0.226	0.276	0.551	0.408	0.257	0.369
Indicator value	2.0	2.7	1.8	2.0	3.1	3.6	2.1	2.5	5.0	3.7	2.3	3.4
Reactor Coolant System Leakage	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum leakage	N/A	0.274	0.096	0.039	0.020	0.019	0.020	0.022	0.034	0.029	0.023	0.053
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	N/A	2.5	0.9	0.4	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.5

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

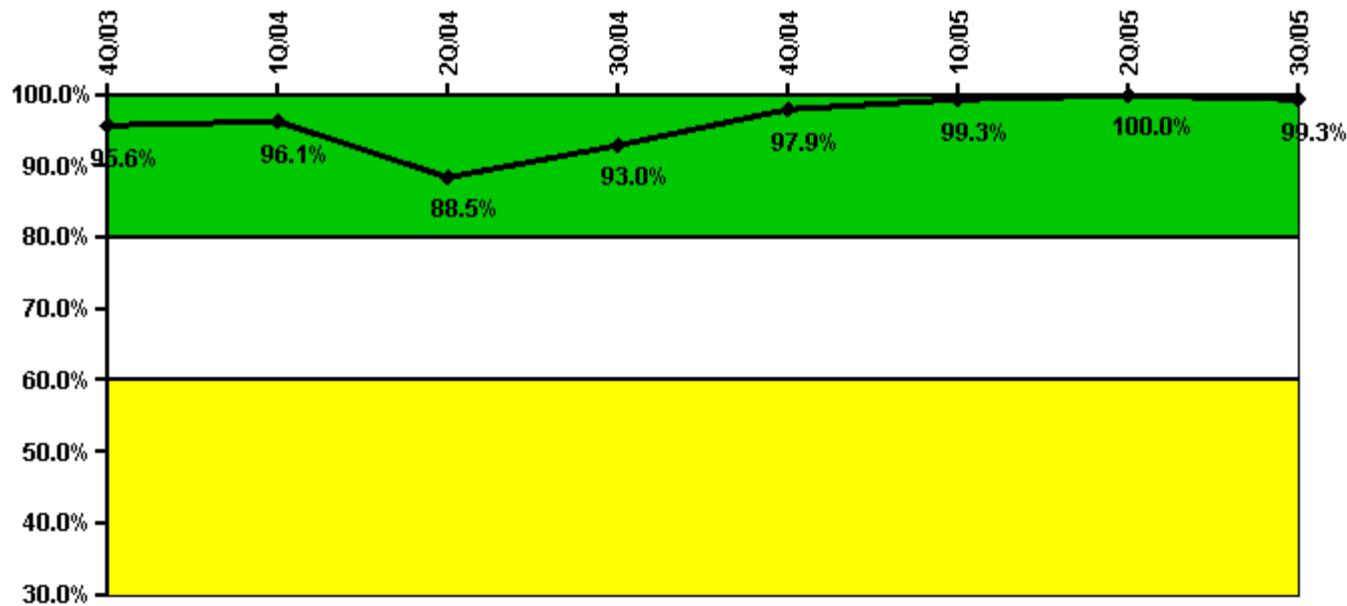
Notes

Drill/Exercise Performance	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Successful opportunities	83.0	132.0	83.0	74.0	67.0	89.0	87.0	108.0
Total opportunities	90.0	137.0	89.0	78.0	68.0	93.0	91.0	112.0
Indicator value	92.3%	92.9%	93.7%	93.9%	94.3%	94.1%	94.4%	95.4%

Licensee Comments:

2Q/05: Data revised to remove one successful opportunity that was inadvertently counted twice.

ERO Drill Participation



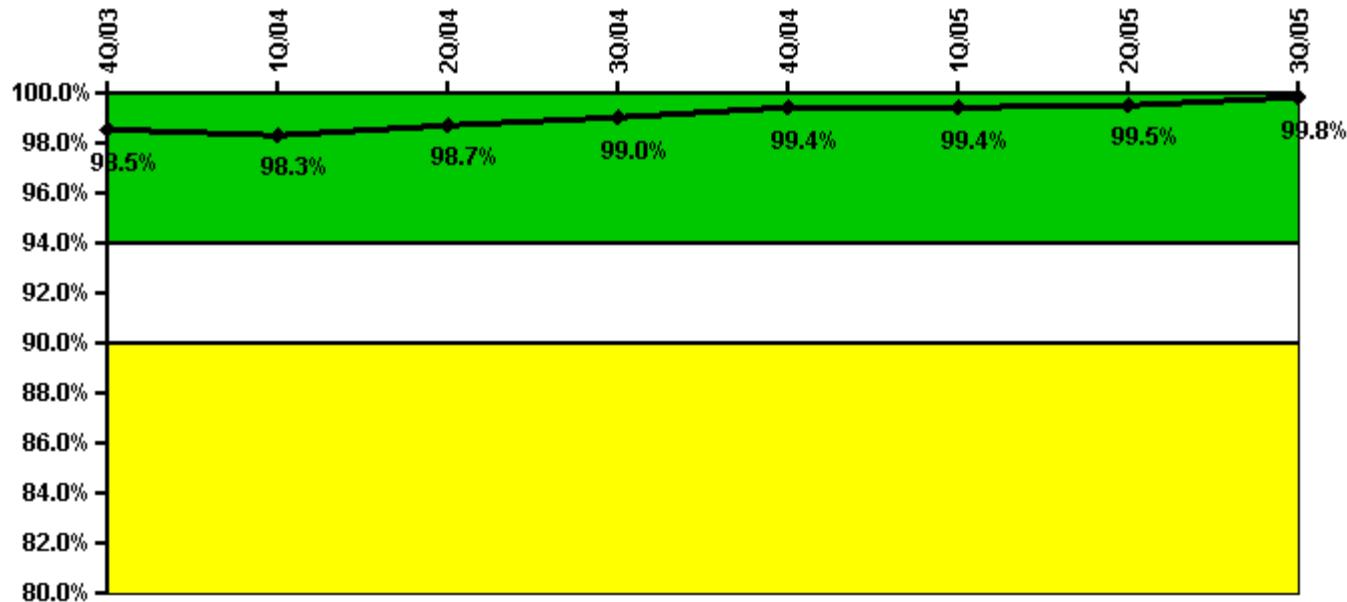
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Participating Key personnel	129.0	124.0	131.0	133.0	138.0	151.0	146.0	147.0
Total Key personnel	135.0	129.0	148.0	143.0	141.0	152.0	146.0	148.0
Indicator value	95.6%	96.1%	88.5%	93.0%	97.9%	99.3%	100.0%	99.3%

Licensee Comments: none

Alert & Notification System



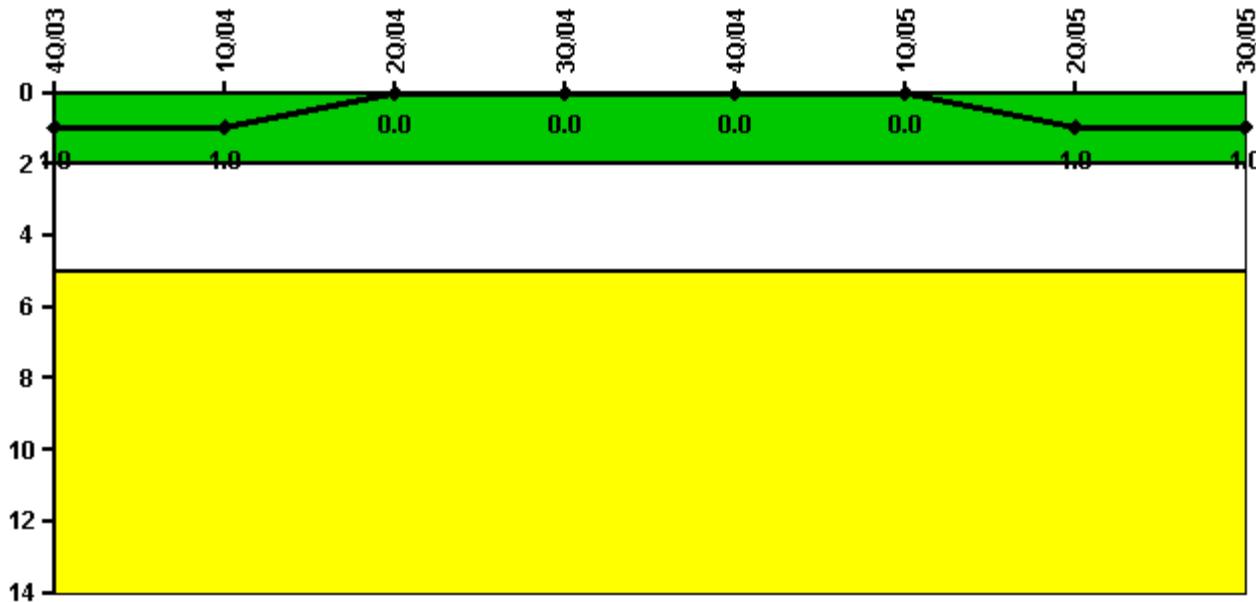
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Successful siren-tests	207	209	208	208	210	209	209	210
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	98.5%	98.3%	98.7%	99.0%	99.4%	99.4%	99.5%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



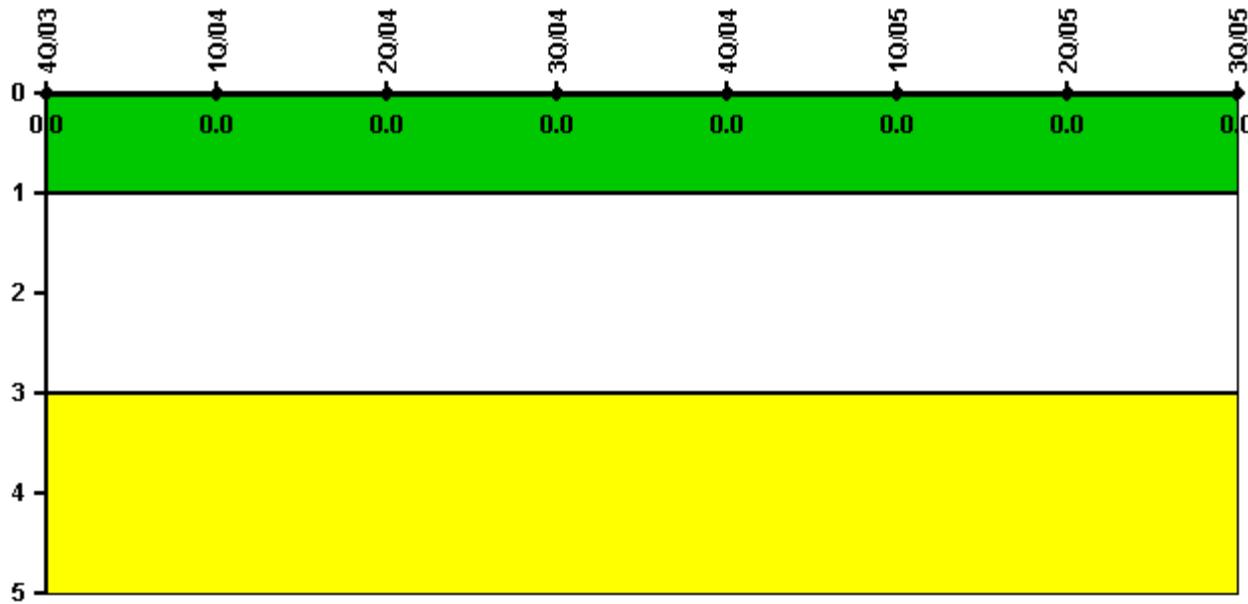
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
High radiation area occurrences	0	0	0	0	0	0	1	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	1	0	0	0	0	1	1

Licensee Comments:

2Q/05: This PI was revised based on an NRC violation to add one event not previously counted.

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

[Physical Protection](#) information not publicly available.

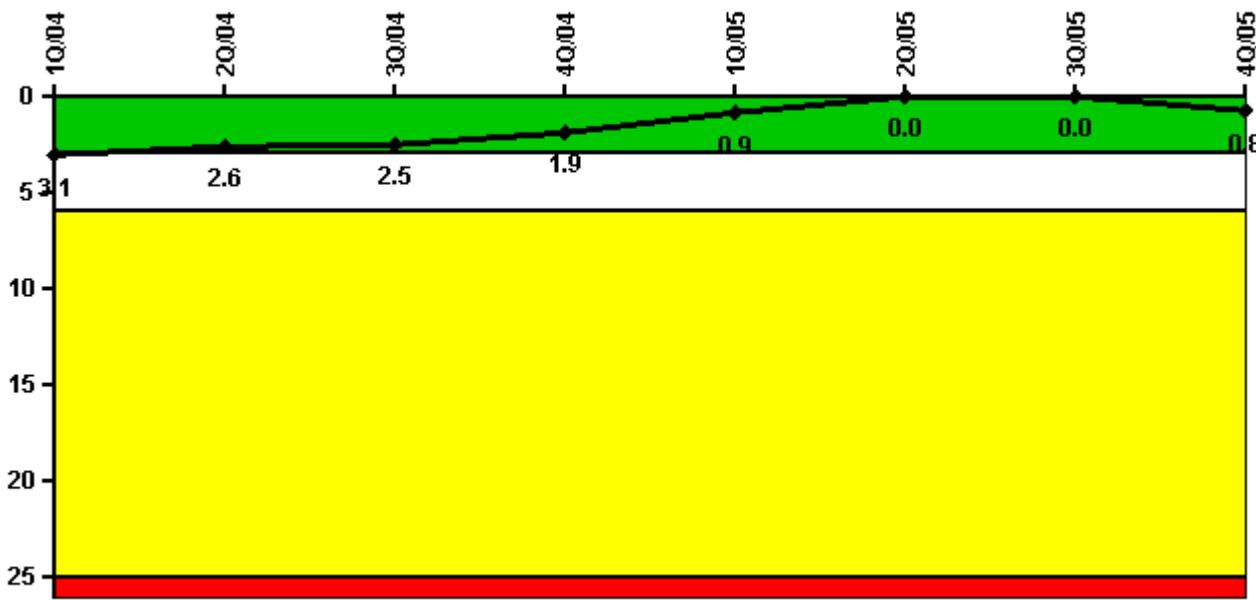


[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: November 3, 2005

D.C. Cook 2**4Q/2005 Performance Indicators**

Licensee's General Comments: none

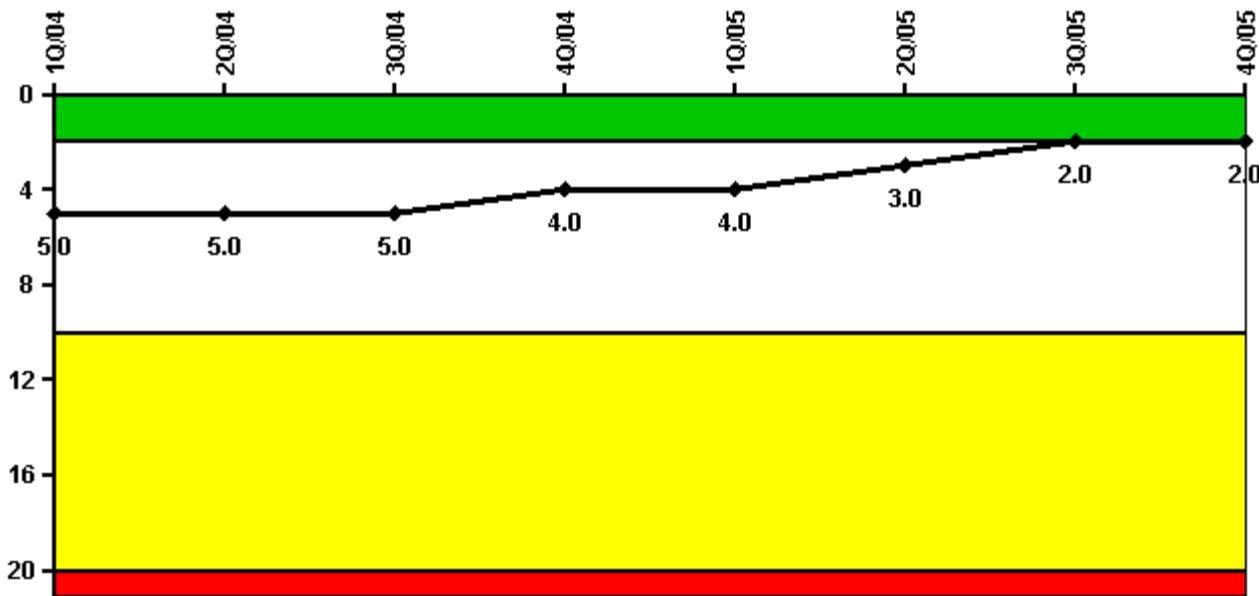
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned scrams	1.0	1.0	0	0	0	0	0	1.0
Critical hours	2052.7	2059.3	2208.0	1145.9	2135.0	2183.0	2179.0	2147.6
Indicator value	3.1	2.6	2.5	1.9	0.9	0	0	0.8

Licensee Comments: none

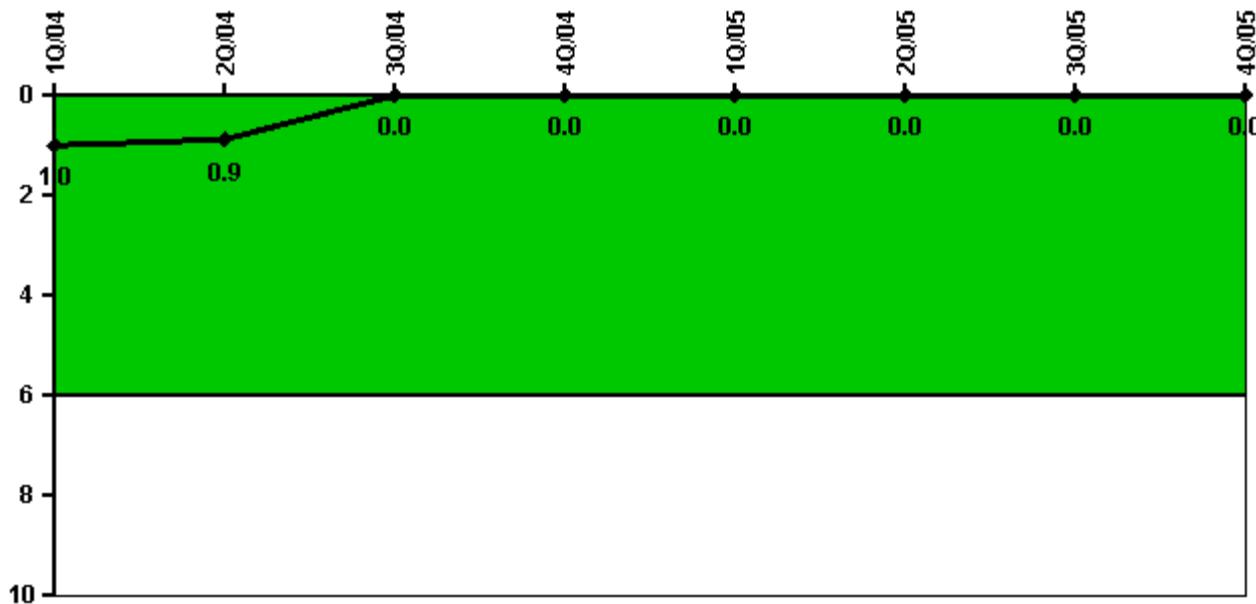
Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	5.0	5.0	5.0	4.0	4.0	3.0	2.0	2.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

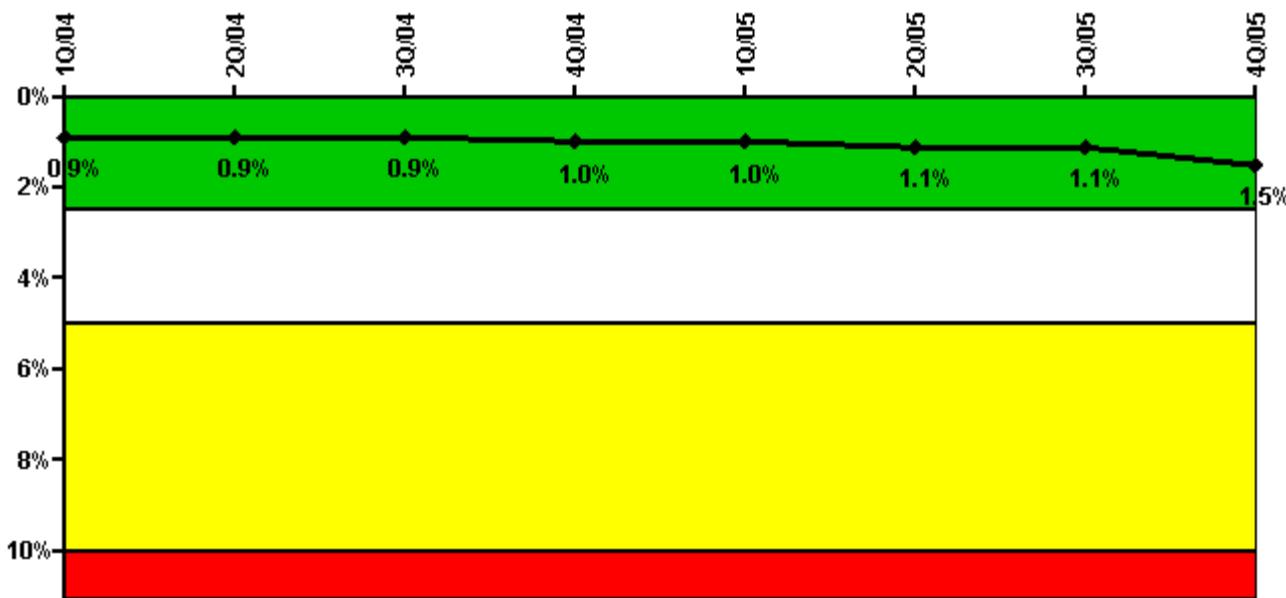
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2052.7	2059.3	2208.0	1145.9	2135.0	2183.0	2179.0	2147.6
Indicator value	1.0	0.9	0	0	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



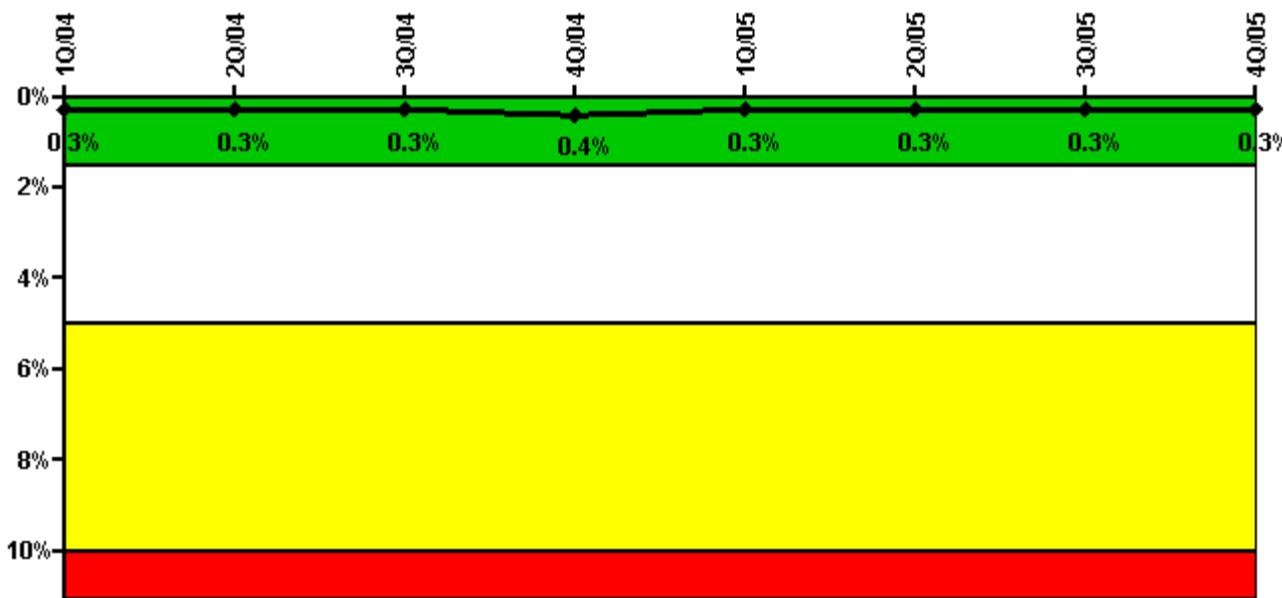
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	18.54	16.29	4.19	18.91	0.90	26.00	16.06	10.13
Unplanned unavailable hours	0	0	0	0	0	0	0	8.60
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1504.18	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	25.24	0.97	20.29	0.42	17.51	19.56	1.26	0.48
Unplanned unavailable hours	0.20	0	0	0	0	23.55	0	44.62
Fault exposure hours	0	0	0	0	0	0	0	271.80
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1989.06	2160.00	2183.00	2208.00	2209.00
Indicator value	0.9%	0.9%	0.9%	1.0%	1.0%	1.1%	1.1%	1.5%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



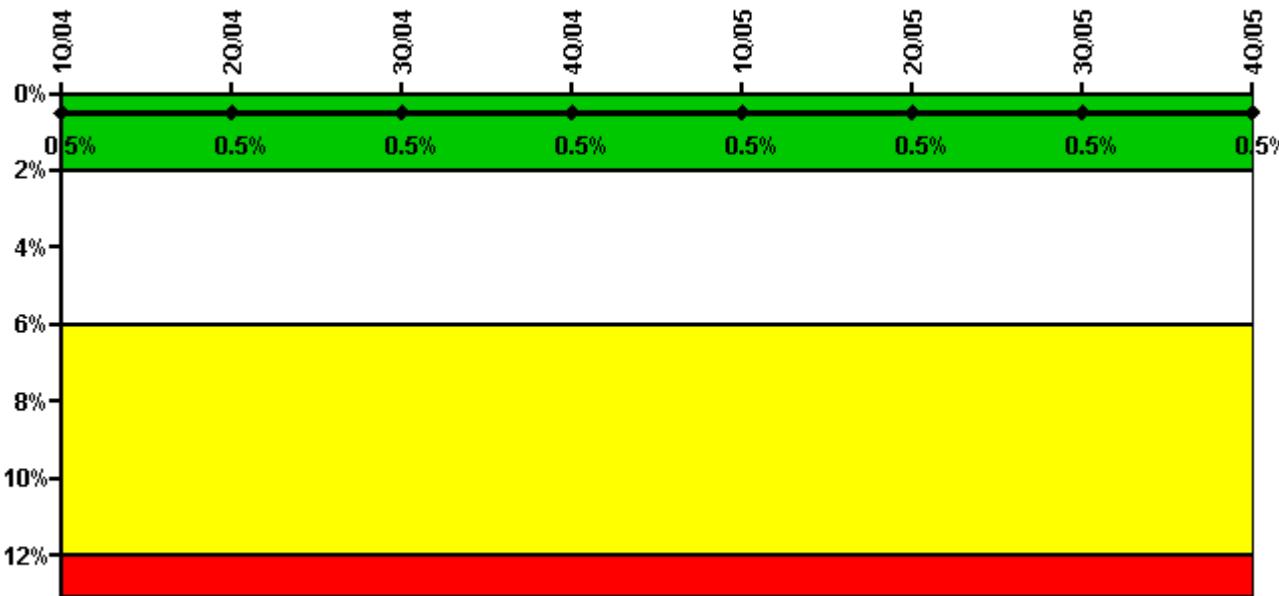
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)		1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1									
Planned unavailable hours		13.35	0	16.75	28.03	0	8.18	0	9.25
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2184.00	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00	2209.00
Train 2									
Planned unavailable hours		0	25.58	0	0	0	9.67	0	19.57
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2184.00	2183.00	2208.00	1284.24	2160.00	2183.00	2208.00	2209.00
Train 3									
Planned unavailable hours		0	0	0	4.17	0	1.70	0	6.80
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2184.00	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00	2209.00
Train 4									
Planned unavailable hours		0	20.47	6.25	0	0	6.33	0	0
Unplanned unavailable hours		0	0	0	0	0	0	0	0
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2184.00	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00	2209.00
Indicator value		0.3%	0.3%	0.3%	0.4%	0.3%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



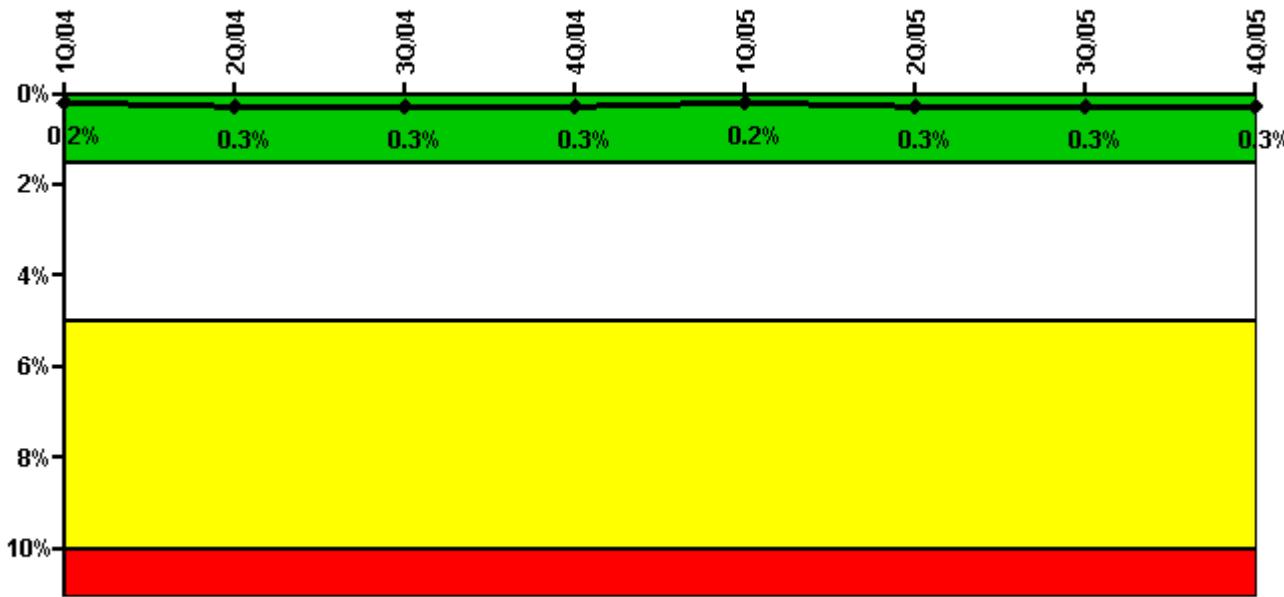
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	0	11.75	0.55	3.58	8.17	15.13	0	15.07
Unplanned unavailable hours	0	0	0	0	1.08	0	0	4.30
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	5.53	0	17.27	0	11.05	8.23	0	11.42
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0	16.00	13.47	0	32.35	0	9.68	0
Unplanned unavailable hours	0	8.35	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00	2209.00
Indicator value	0.5%							

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

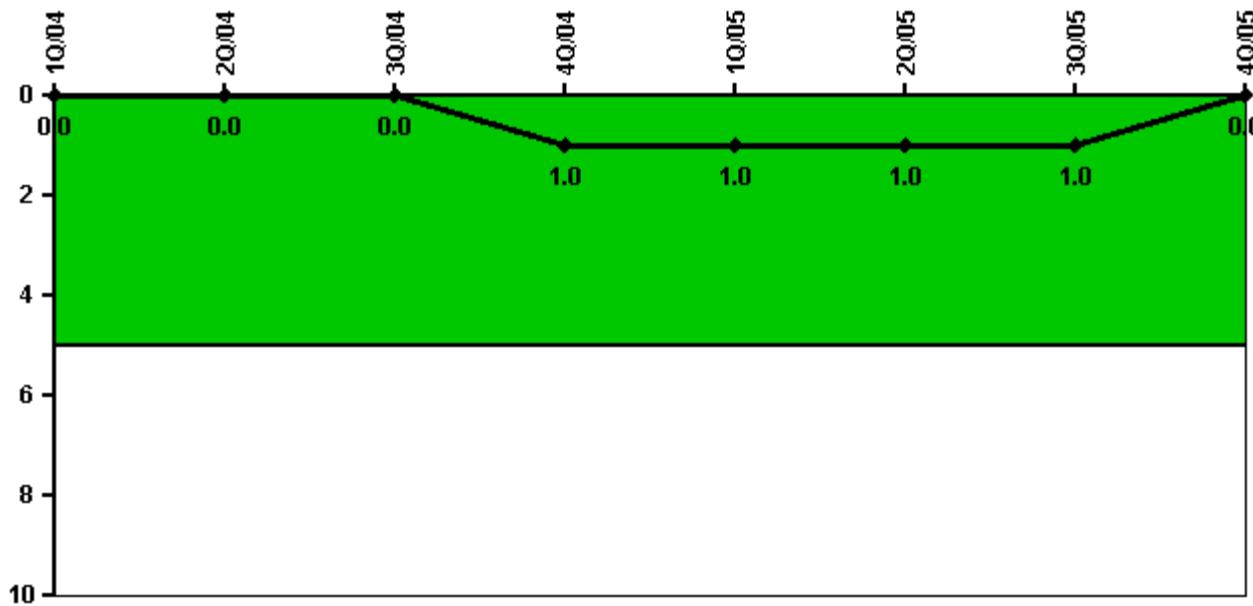


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	0	17.28	4.48	0	0	0	15.58	16.93
Unplanned unavailable hours	0	0	0	0	0	0	7.67	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1933.22	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0	8.15	5.30	4.20	0	16.54	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1933.22	2160.00	2183.00	2208.00	2209.00
Indicator value	0.2%	0.3%	0.3%	0.3%	0.2%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Functional Failures (PWR)

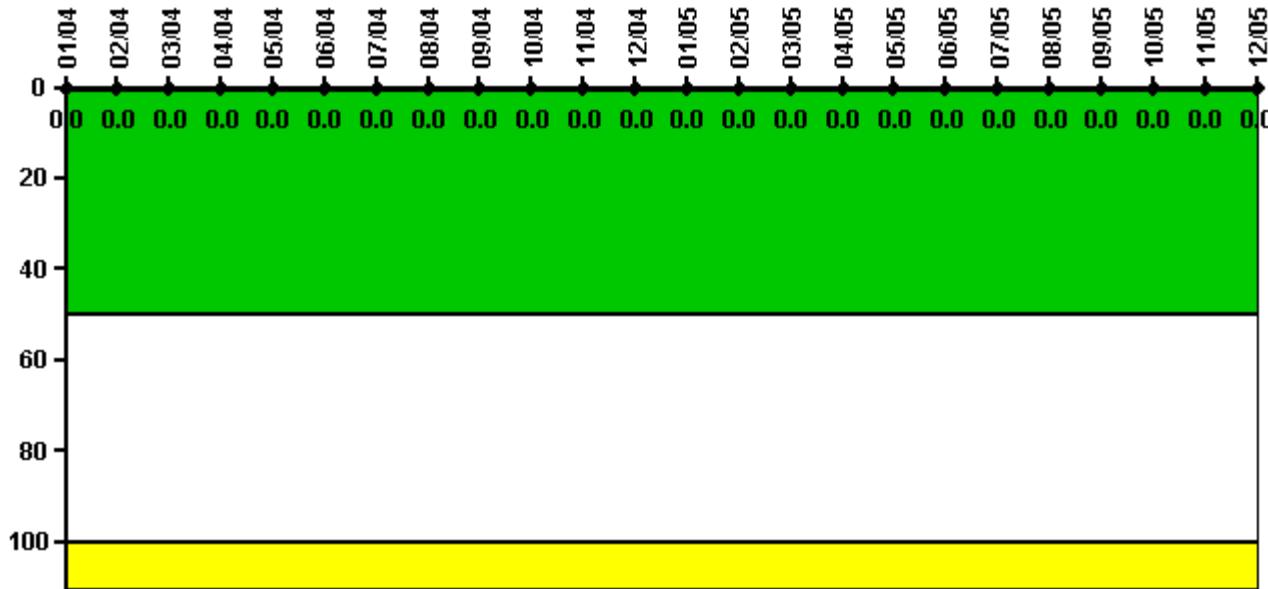
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Safety System Functional Failures	0	0	0	1	0	0	0	0
Indicator value	0	0	0	1	1	1	1	0

Licensee Comments: none

Reactor Coolant System Activity



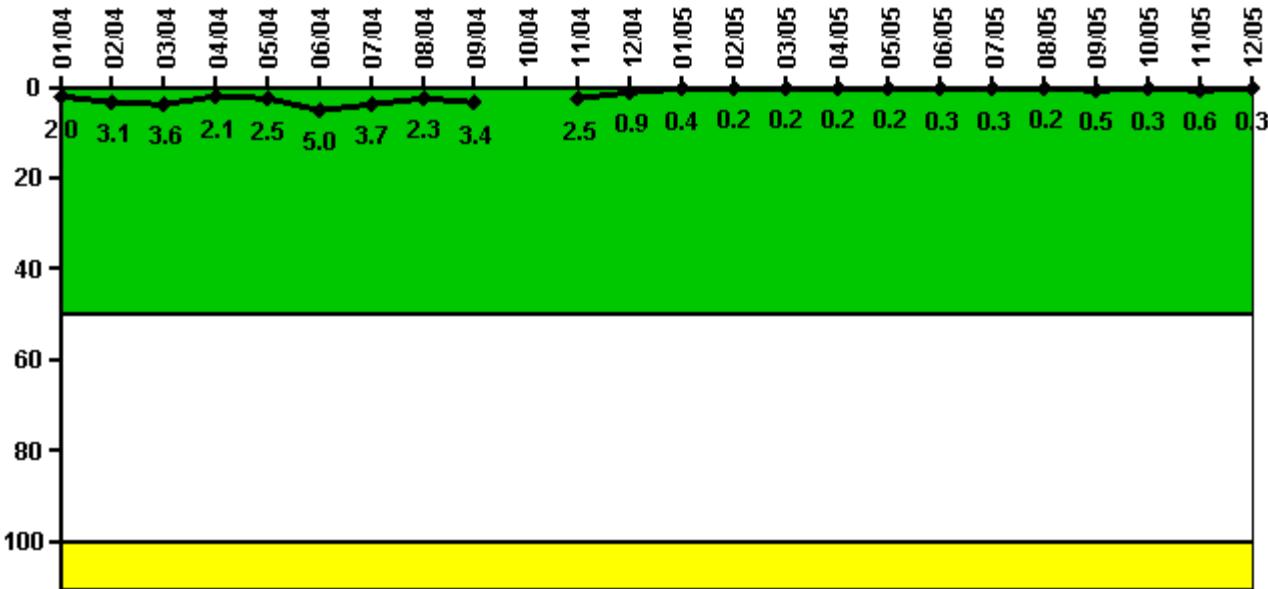
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum activity	0.000219	0.000242	0.000243	0.000385	0.000247	0.000261	0.000283	0.000269	0.000469	0.000241	0.000136	0.000140
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
Maximum activity	0.000150	0.000378	0.000345	0.000176	0.000198	0.000190	0.000198	0.000202	0.000204	0.000213	0.000224	0.000222
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



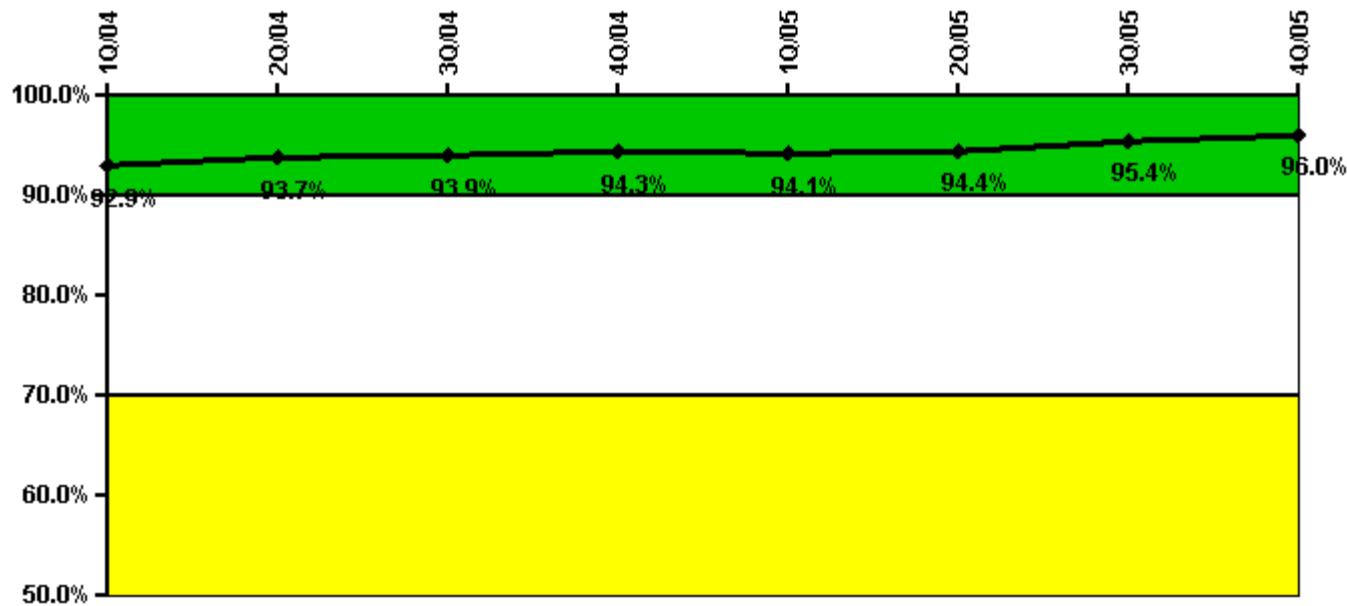
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum leakage	0.225	0.336	0.399	0.226	0.276	0.551	0.408	0.257	0.369	N/A	0.274	0.096
Indicator value	2.0	3.1	3.6	2.1	2.5	5.0	3.7	2.3	3.4	N/A	2.5	0.9
Reactor Coolant System Leakage	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
Maximum leakage	0.039	0.020	0.019	0.020	0.022	0.034	0.029	0.023	0.053	0.031	0.070	0.036
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.4	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.5	0.3	0.6	0.3

Licensee Comments: none

Drill/Exercise Performance



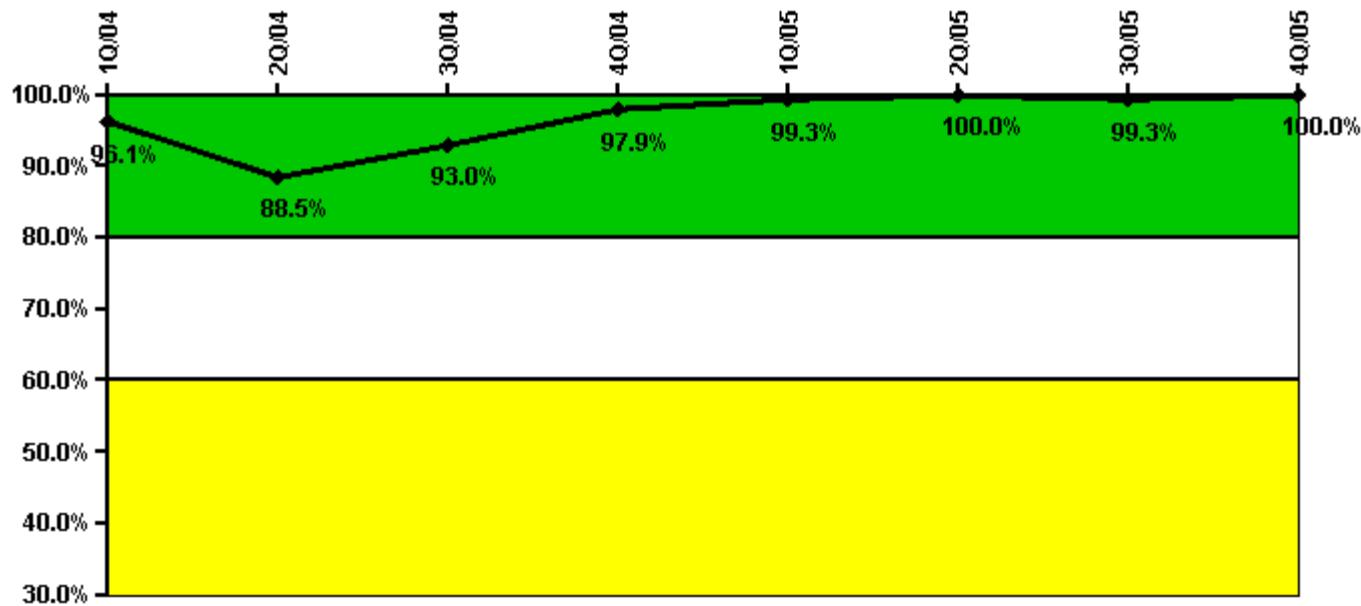
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful opportunities	132.0	83.0	74.0	67.0	89.0	87.0	108.0	58.0
Total opportunities	137.0	89.0	78.0	68.0	93.0	91.0	112.0	59.0
Indicator value	92.9%	93.7%	93.9%	94.3%	94.1%	94.4%	95.4%	96.0%

Licensee Comments: none

ERO Drill Participation



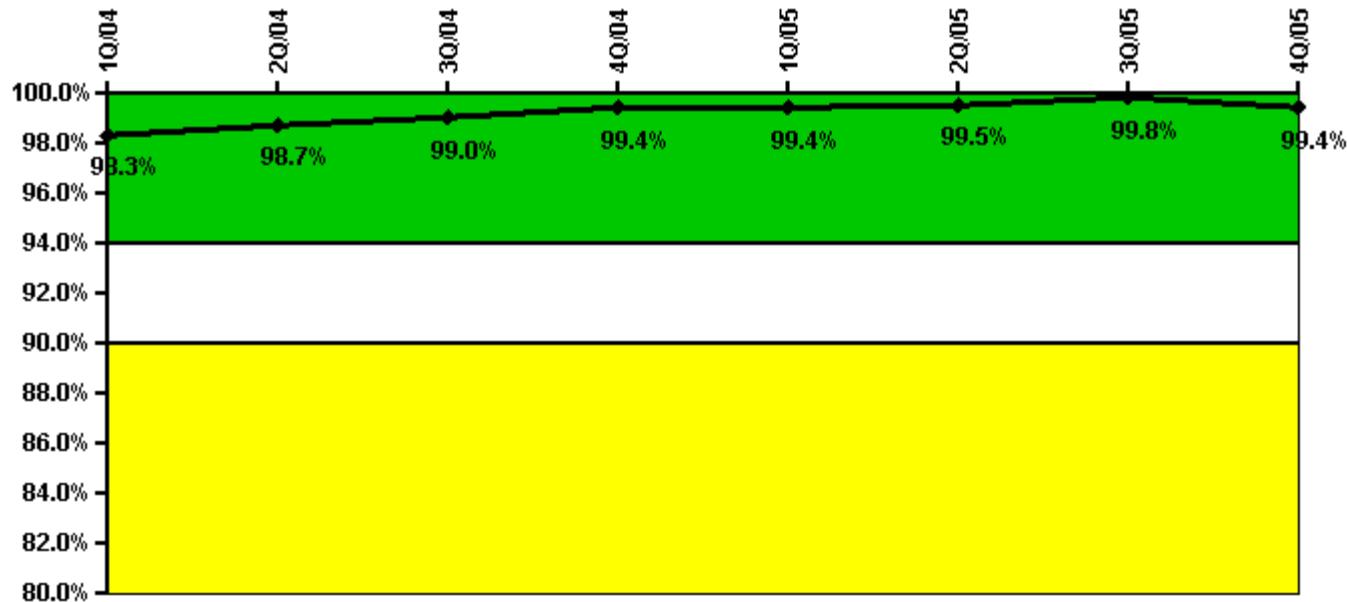
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Participating Key personnel	124.0	131.0	133.0	138.0	151.0	146.0	147.0	144.0
Total Key personnel	129.0	148.0	143.0	141.0	152.0	146.0	148.0	144.0
Indicator value	96.1%	88.5%	93.0%	97.9%	99.3%	100.0%	99.3%	100.0%

Licensee Comments: none

Alert & Notification System



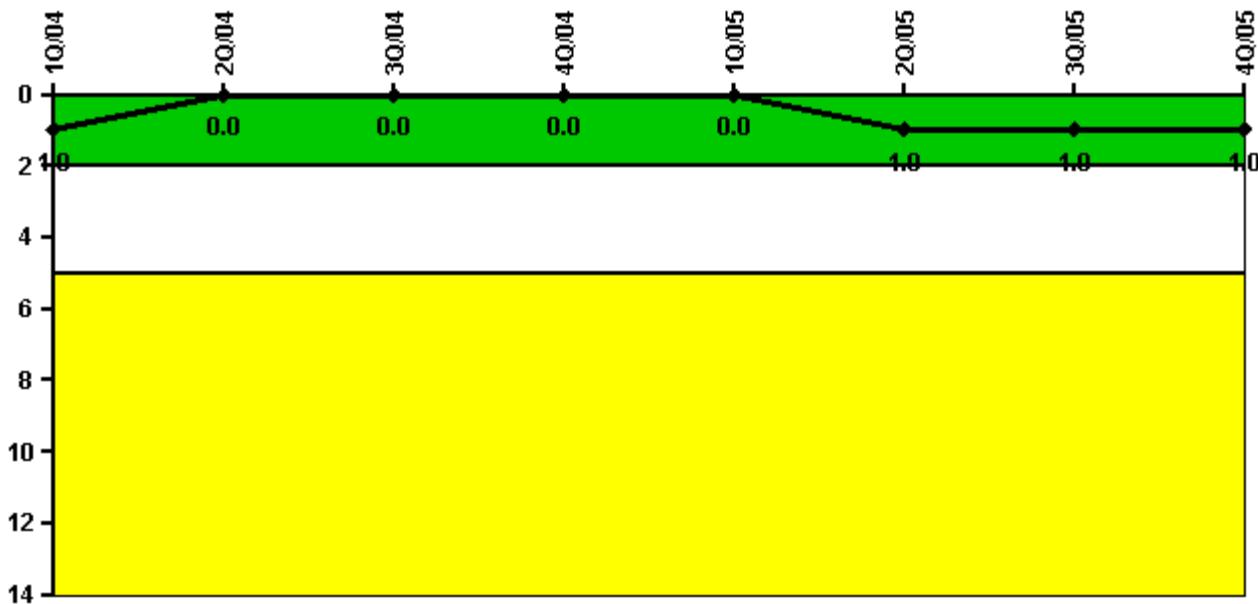
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful siren-tests	209	208	208	210	209	209	210	207
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	98.3%	98.7%	99.0%	99.4%	99.4%	99.5%	99.8%	99.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness

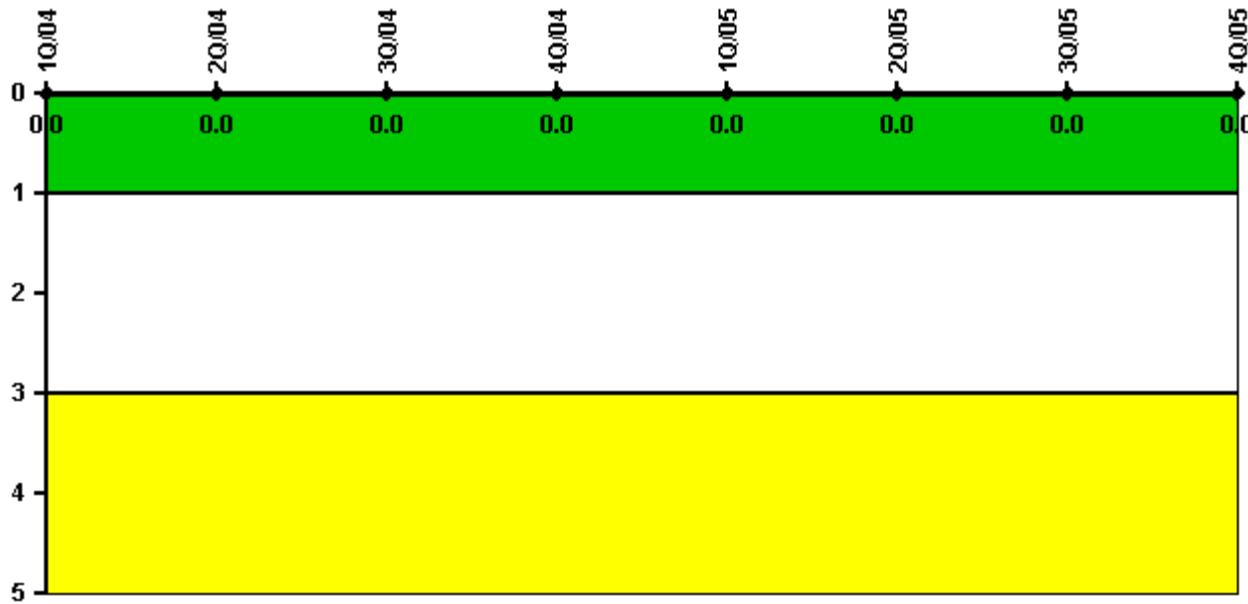


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
High radiation area occurrences	0	0	0	0	0	1	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	0	0	0	0	1	1	1

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

[Physical Protection](#) information not publicly available.

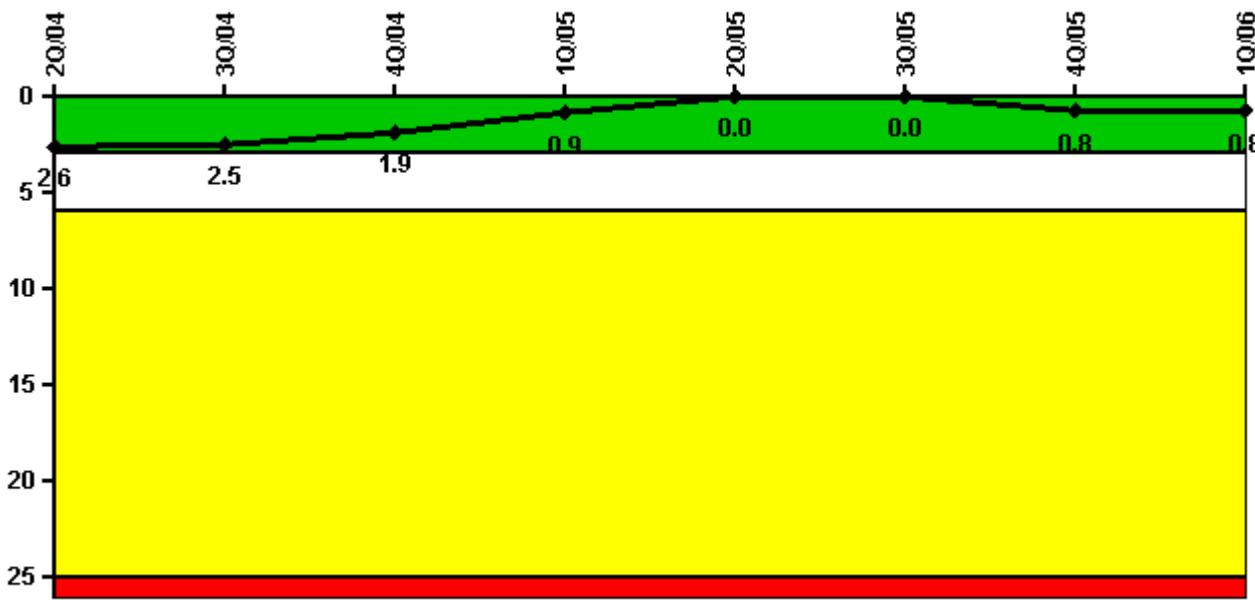


[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: January 30, 2006

D.C. Cook 2**1Q/2006 Performance Indicators**

Licensee's General Comments: none

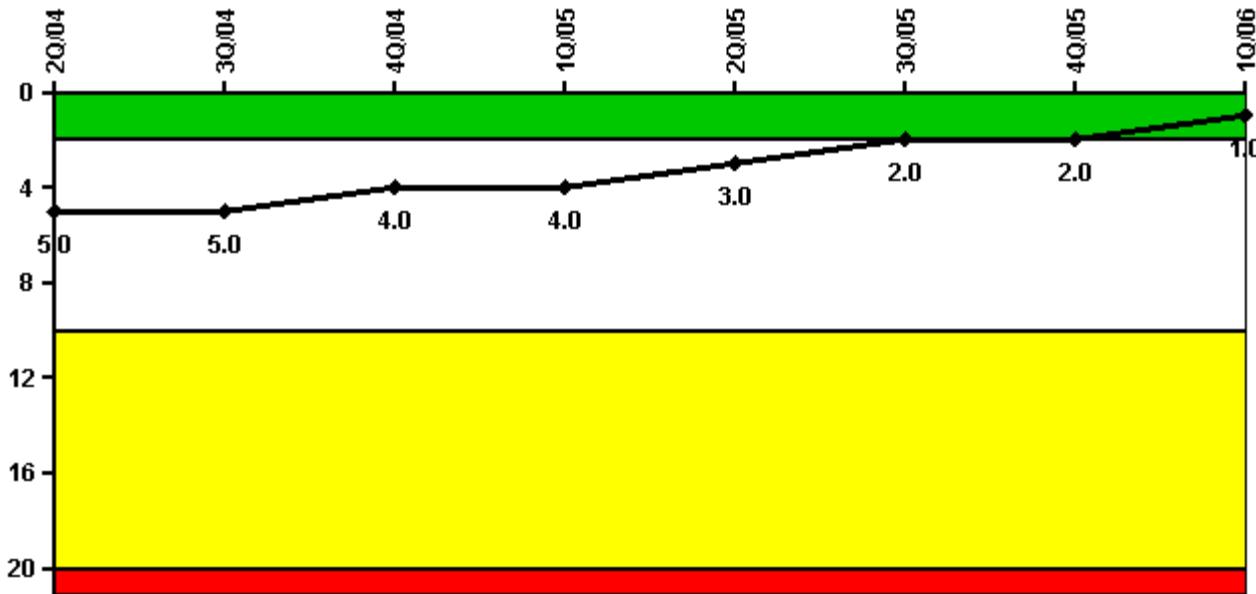
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned scrams	1.0	0	0	0	0	0	1.0	0
Critical hours	2059.3	2208.0	1145.9	2135.0	2183.0	2179.0	2147.6	1992.0
Indicator value	2.6	2.5	1.9	0.9	0	0	0.8	0.8

Licensee Comments: none

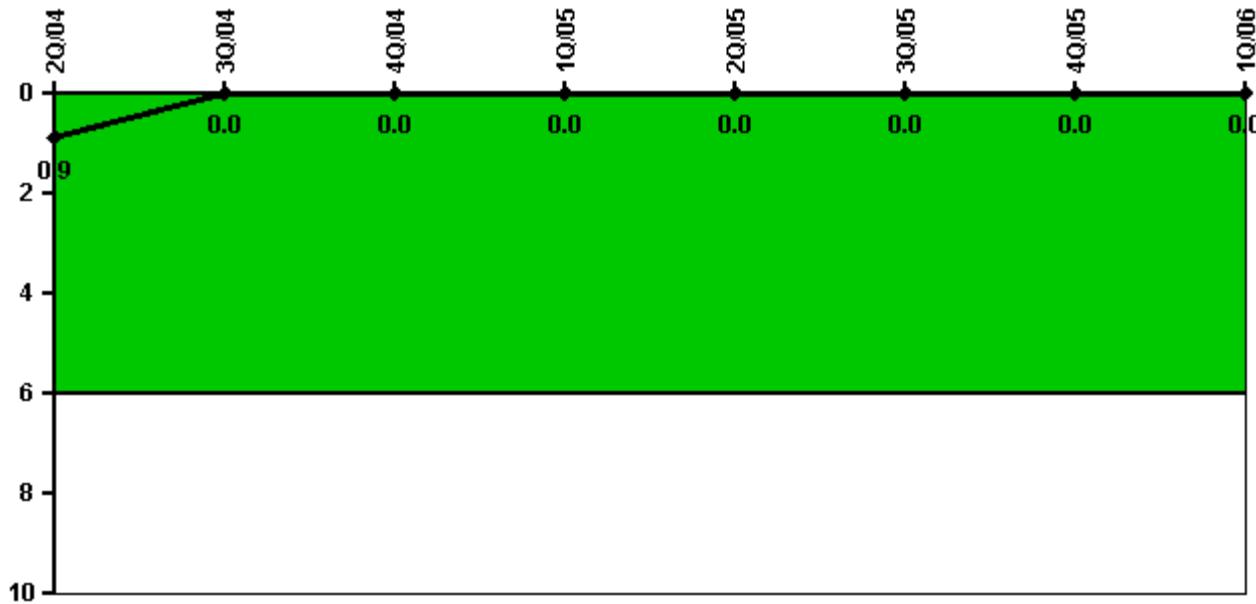
Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	5.0	5.0	4.0	4.0	3.0	2.0	2.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

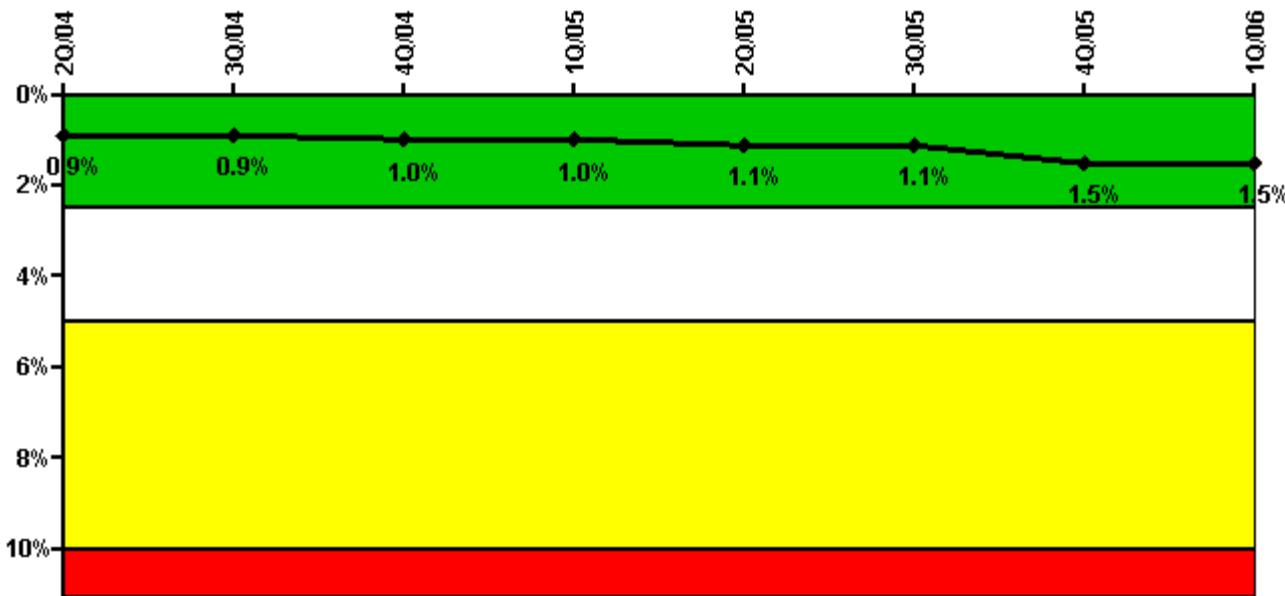
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2059.3	2208.0	1145.9	2135.0	2183.0	2179.0	2147.6	1992.0
Indicator value	0.9	0						

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



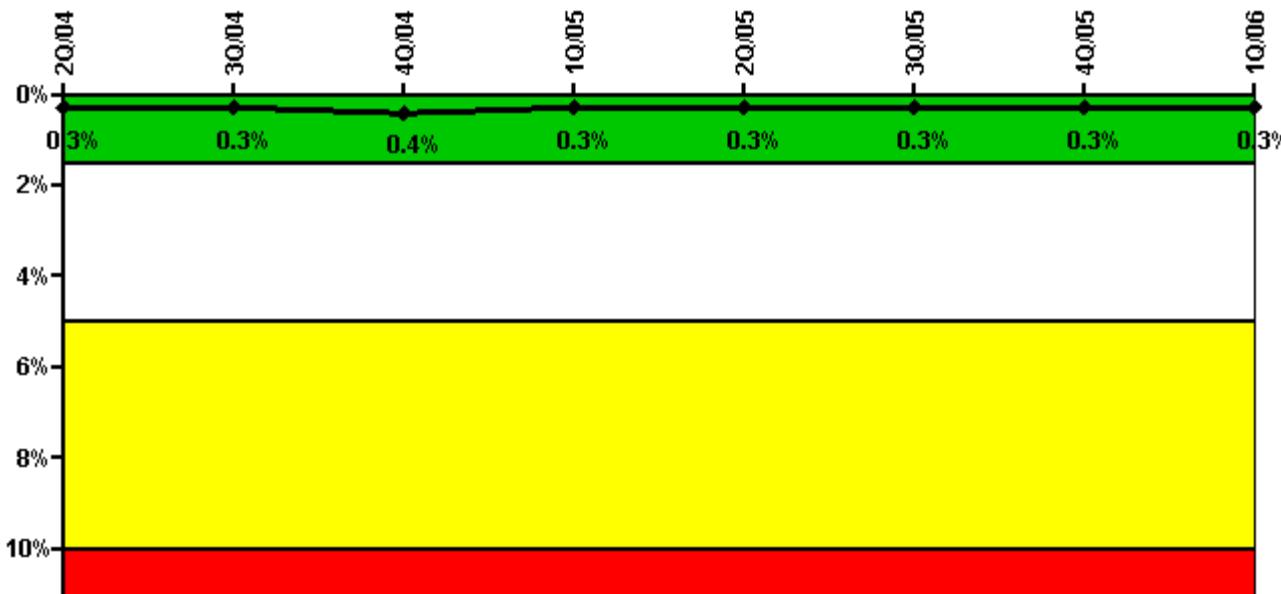
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	16.29	4.19	18.91	0.90	26.00	16.06	10.13	7.70
Unplanned unavailable hours	0	0	0	0	0	0	8.60	6.57
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1504.18	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	0.97	20.29	0.42	17.51	19.56	1.26	0.48	18.11
Unplanned unavailable hours	0	0	0	0	23.55	0	44.62	0
Fault exposure hours	0	0	0	0	0	0	271.80	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1989.06	2160.00	2183.00	2208.00	2209.00	2004.02
Indicator value	0.9%	0.9%	1.0%	1.0%	1.1%	1.1%	1.5%	1.5%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



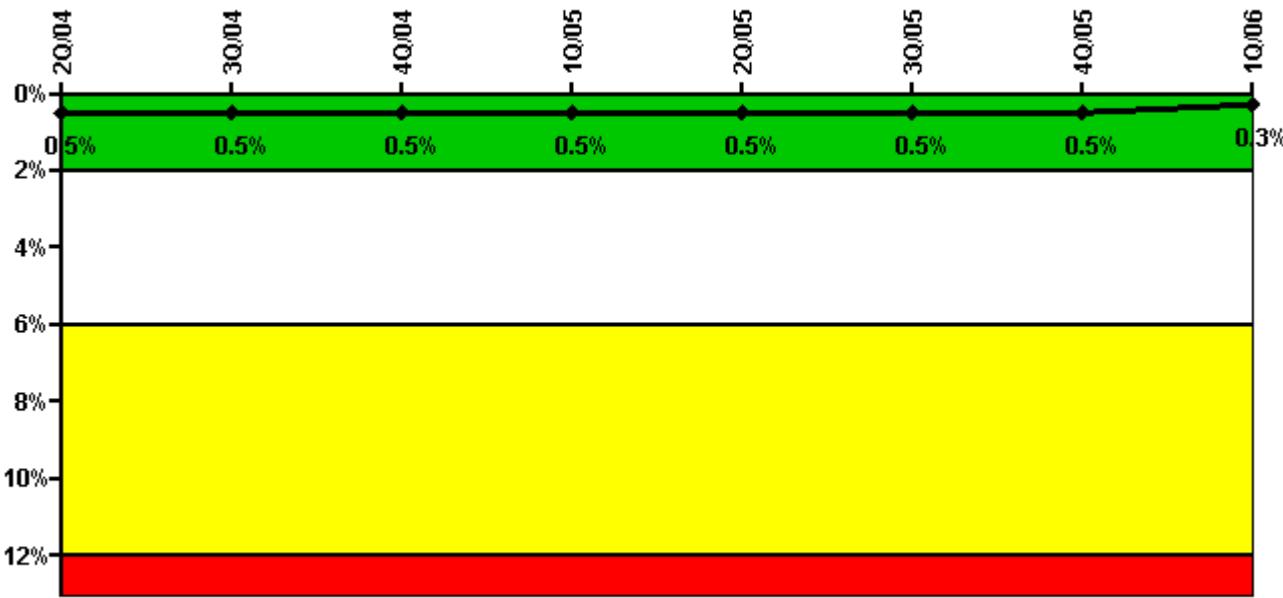
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	0	16.75	28.03	0	8.18	0	9.25	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00	2209.00	1999.22
Train 2								
Planned unavailable hours	25.58	0	0	0	9.67	0	19.57	18.62
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1284.24	2160.00	2183.00	2208.00	2209.00	2002.73
Train 3								
Planned unavailable hours	0	0	4.17	0	1.70	0	6.80	4.12
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00	2209.00	1997.93
Train 4								
Planned unavailable hours	20.47	6.25	0	0	6.33	0	0	2.45
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00	2209.00	1997.93
Indicator value	0.3%	0.3%	0.4%	0.3%	0.3%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



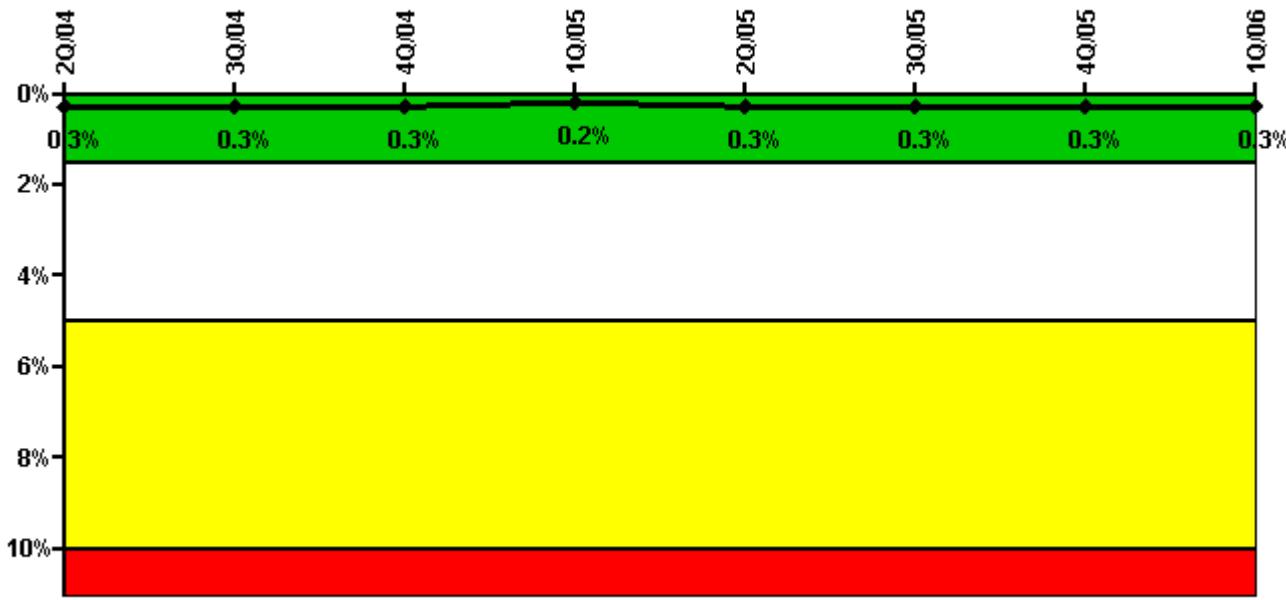
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	11.75	0.55	3.58	8.17	15.13	0	15.07	6.13
Unplanned unavailable hours	0	0	0	1.08	0	0	4.30	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00	2209.00	1997.93
Train 2								
Planned unavailable hours	0	17.27	0	11.05	8.23	0	11.42	0.85
Unplanned unavailable hours	0	0	0	0	0	0	0	12.00
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00	2209.00	1997.93
Train 3								
Planned unavailable hours	16.00	13.47	0	32.35	0	9.68	0	0
Unplanned unavailable hours	8.35	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1239.60	2160.00	2183.00	2208.00	2209.00	1997.93
Indicator value	0.5%	0.3%						

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

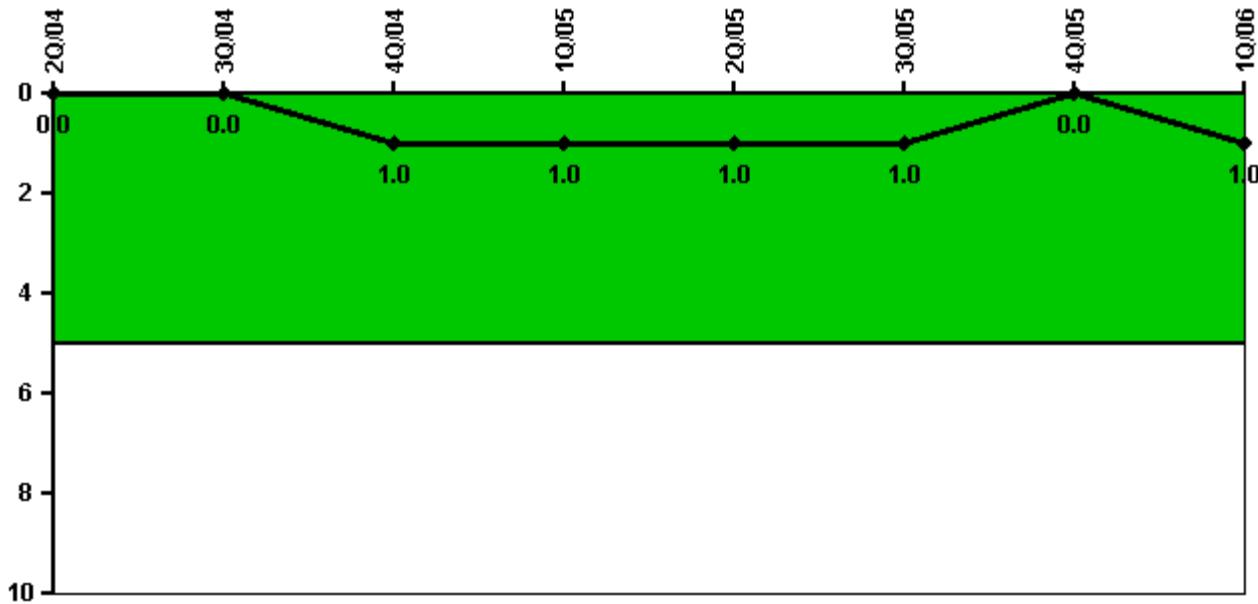


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	17.28	4.48	0	0	0	15.58	16.93	4.34
Unplanned unavailable hours	0	0	0	0	0	7.67	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1933.22	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	8.15	5.30	4.20	0	16.54	0	0	5.77
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1933.22	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	0.3%	0.3%	0.3%	0.2%	0.3%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Functional Failures (PWR)

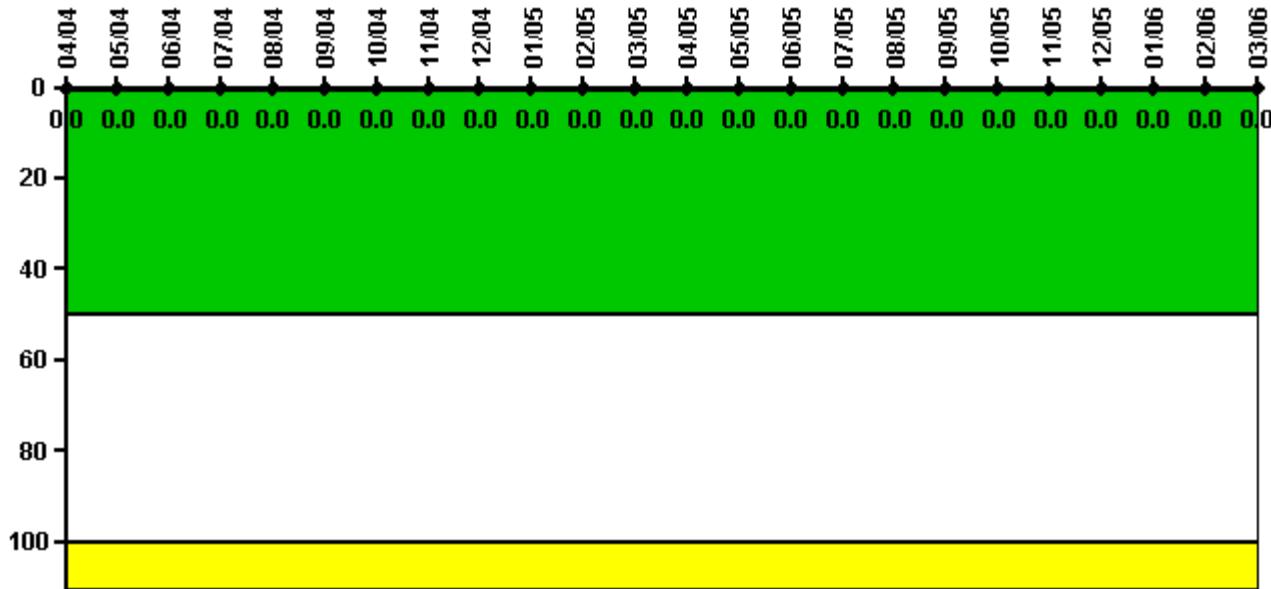
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Safety System Functional Failures	0	0	1	0	0	0	0	1
Indicator value	0	0	1	1	1	1	0	1

Licensee Comments: none

Reactor Coolant System Activity



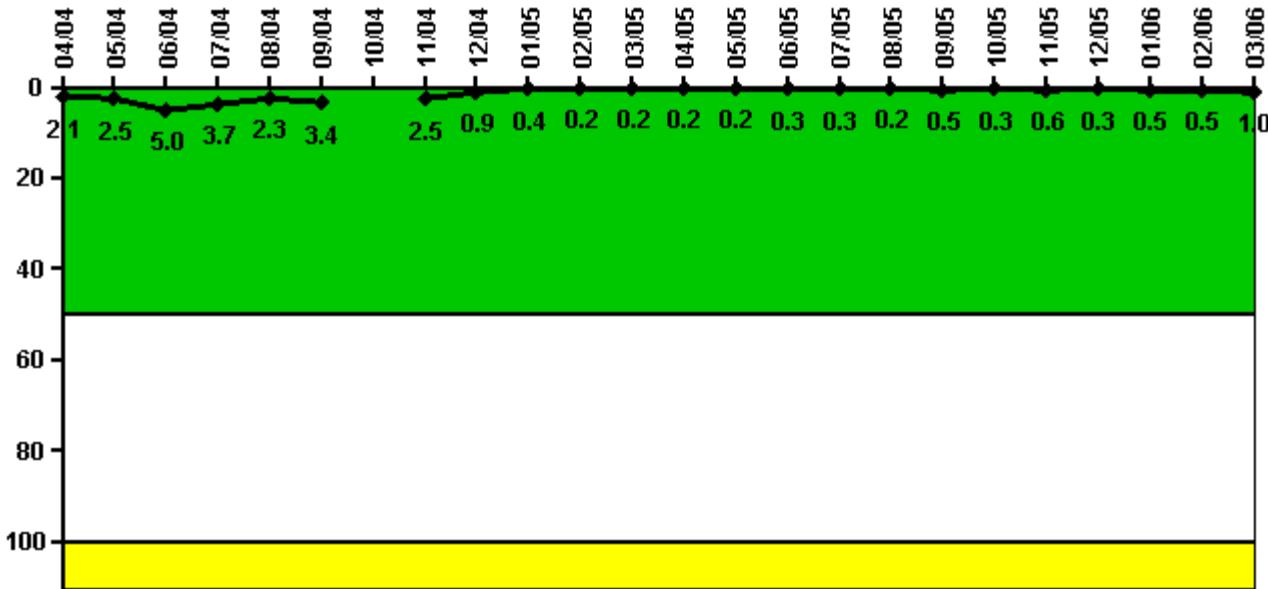
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05
Maximum activity	0.000385	0.000247	0.000261	0.000283	0.000269	0.000469	0.000241	0.000136	0.000140	0.000150	0.000378	0.000345
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum activity	0.000176	0.000198	0.000190	0.000198	0.000202	0.000204	0.000213	0.000224	0.000222	0.000286	0.000292	0.000294
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



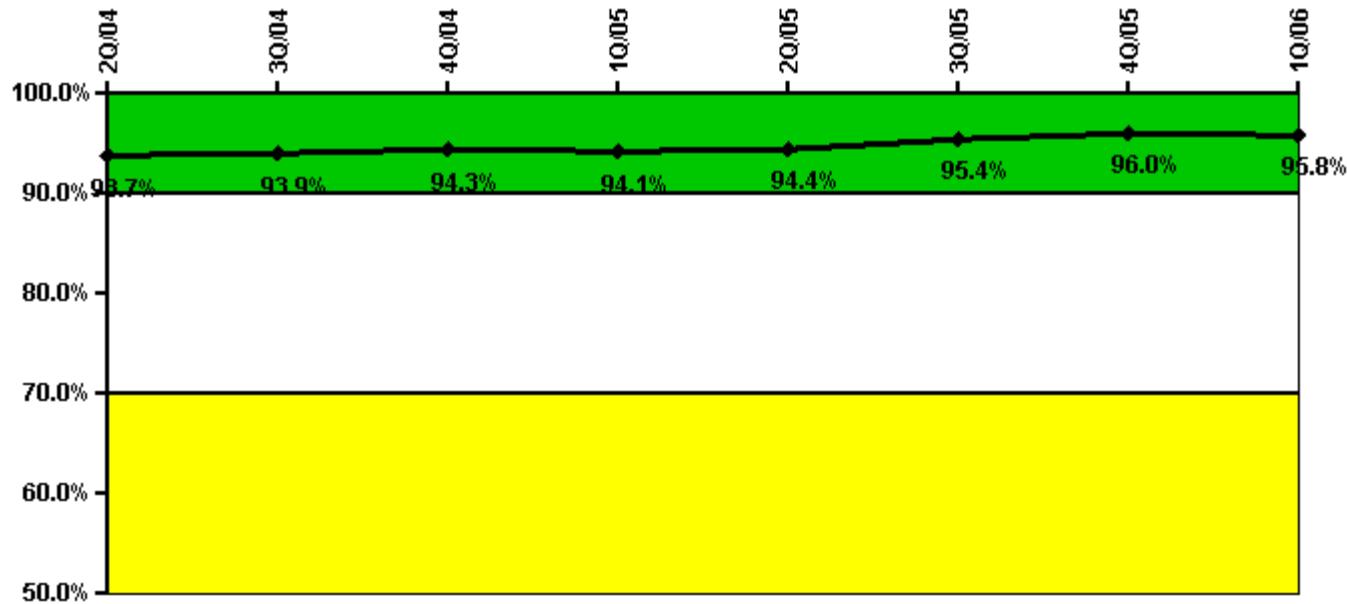
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05
Maximum leakage	0.226	0.276	0.551	0.408	0.257	0.369	N/A	0.274	0.096	0.039	0.020	0.019
Indicator value	2.1	2.5	5.0	3.7	2.3	3.4	N/A	2.5	0.9	0.4	0.2	0.2
Reactor Coolant System Leakage	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum leakage	0.020	0.022	0.034	0.029	0.023	0.053	0.031	0.070	0.036	0.057	0.053	0.114
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.2	0.2	0.3	0.3	0.2	0.5	0.3	0.6	0.3	0.5	0.5	1.0

Licensee Comments: none

Drill/Exercise Performance



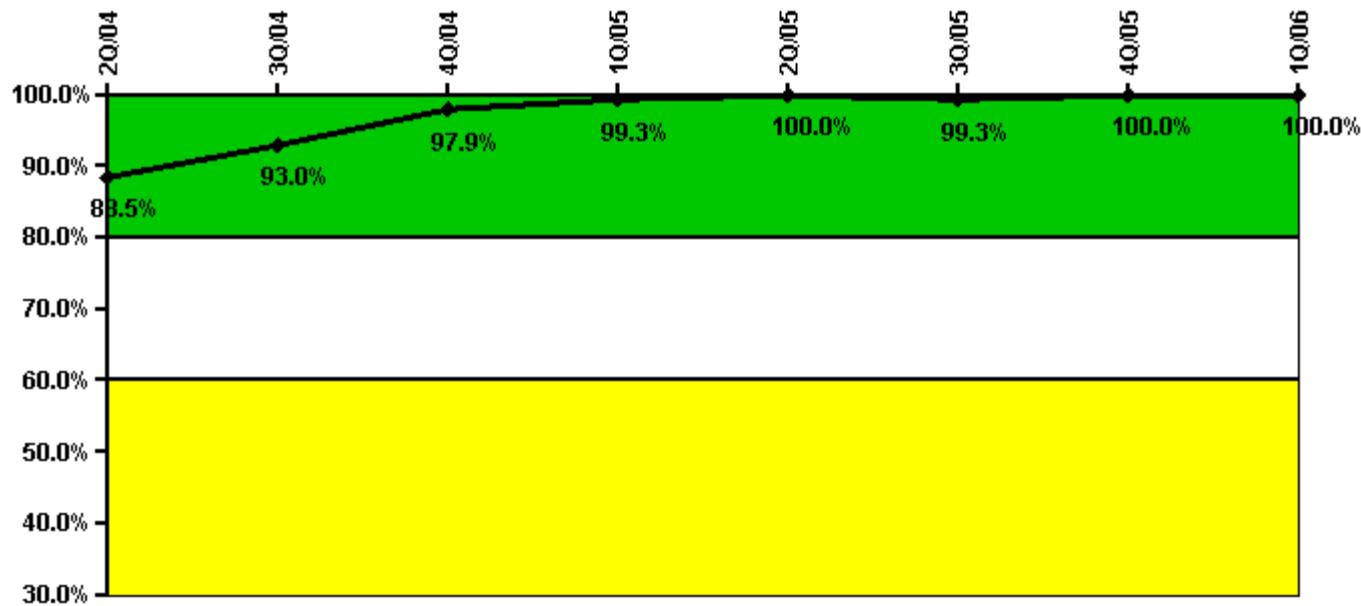
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful opportunities	83.0	74.0	67.0	89.0	87.0	108.0	58.0	78.0
Total opportunities	89.0	78.0	68.0	93.0	91.0	112.0	59.0	82.0
Indicator value	93.7%	93.9%	94.3%	94.1%	94.4%	95.4%	96.0%	95.8%

Licensee Comments: none

ERO Drill Participation



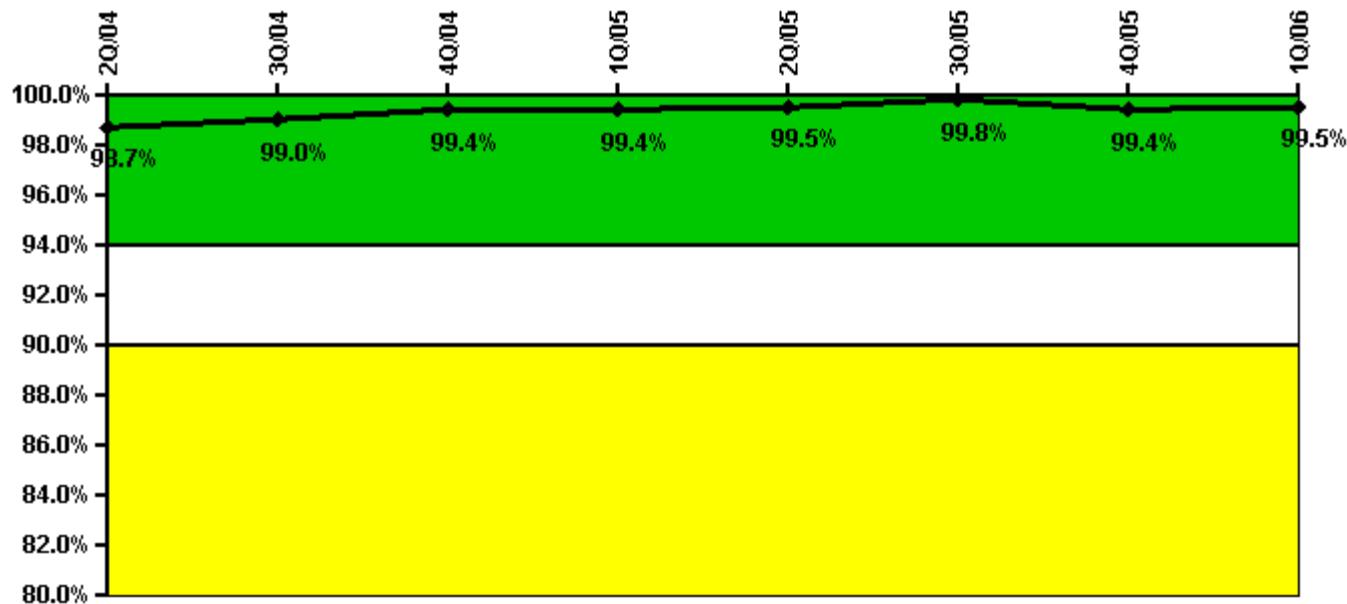
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Participating Key personnel	131.0	133.0	138.0	151.0	146.0	147.0	144.0	147.0
Total Key personnel	148.0	143.0	141.0	152.0	146.0	148.0	144.0	147.0
Indicator value	88.5%	93.0%	97.9%	99.3%	100.0%	99.3%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



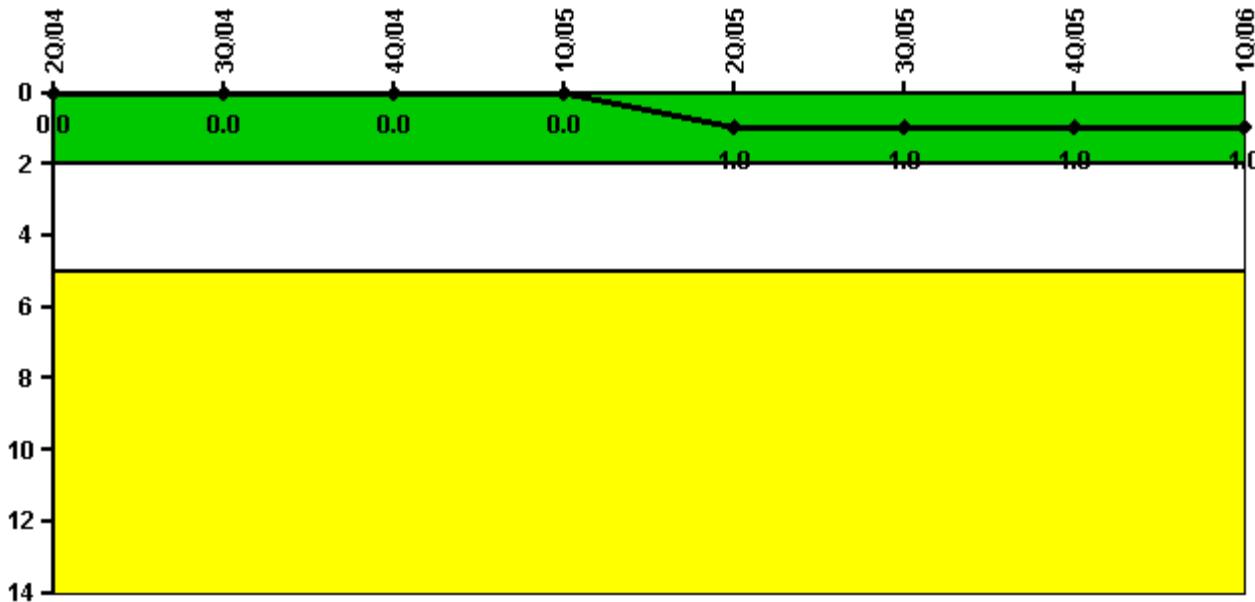
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful siren-tests	208	208	210	209	209	210	207	210
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	98.7%	99.0%	99.4%	99.4%	99.5%	99.8%	99.4%	99.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness

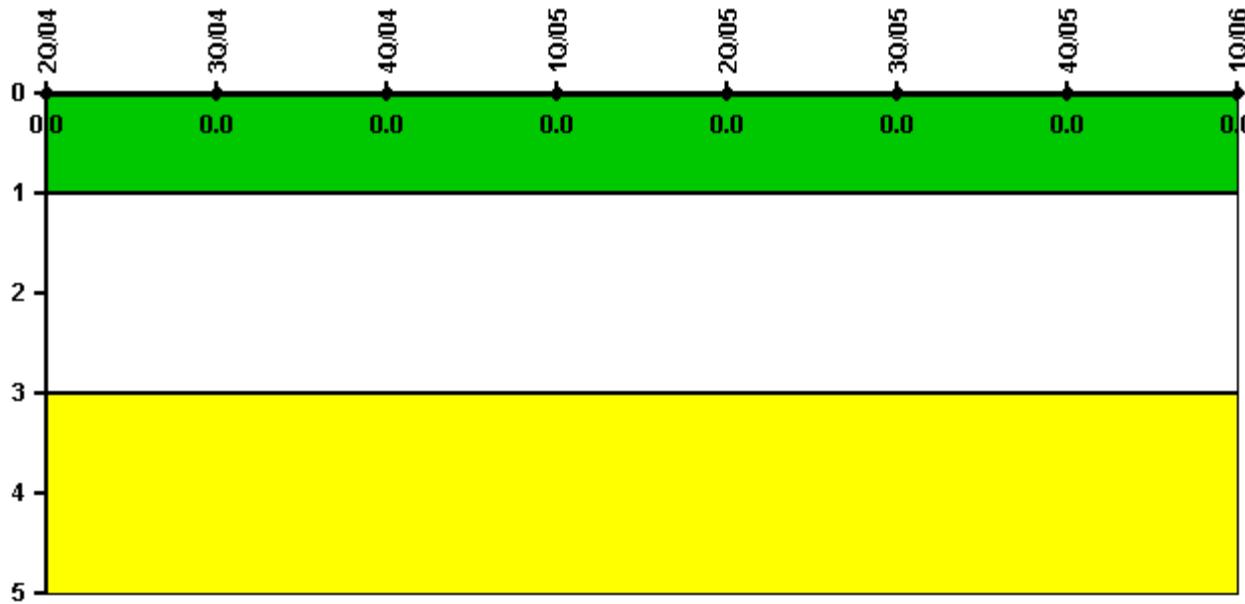


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
High radiation area occurrences	0	0	0	0	1	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	1	1	1	1

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

[Physical Protection](#) information not publicly available.

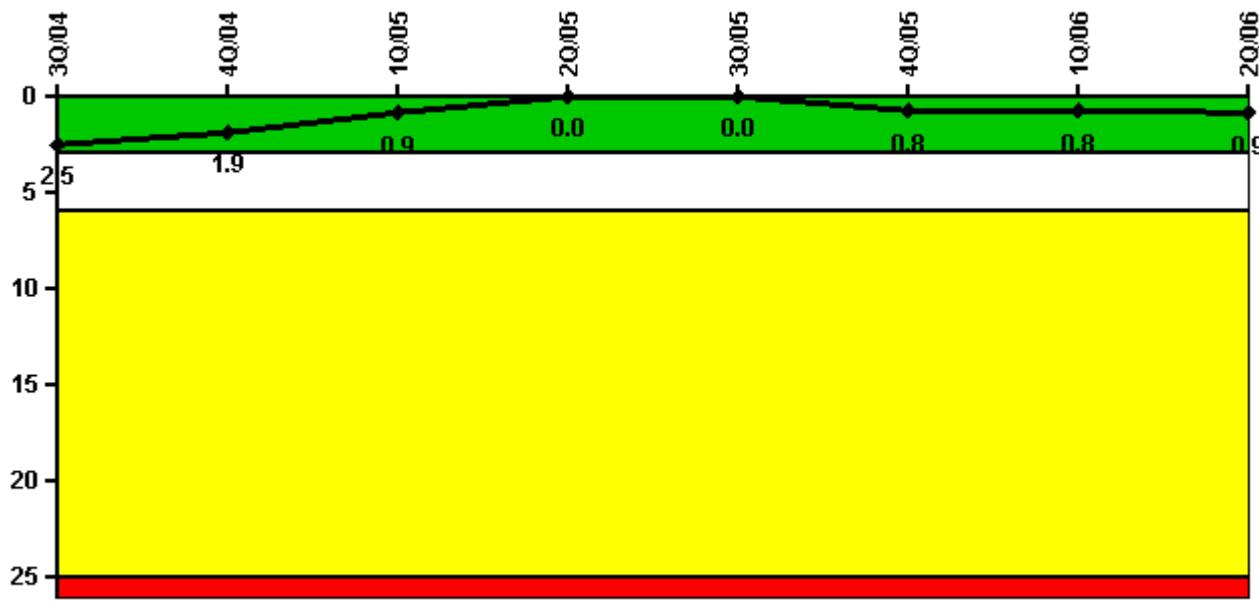


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Last Modified: May 5, 2006

D.C. Cook 2**2Q/2006 Performance Indicators**

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

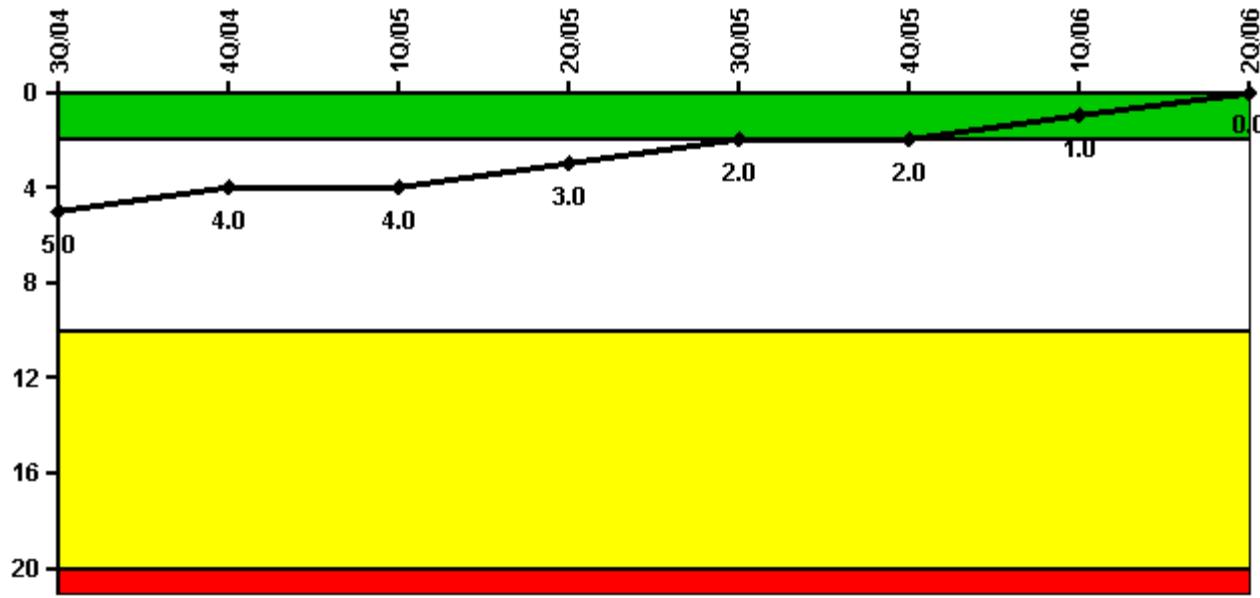
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	1145.9	2135.0	2183.0	2179.0	2147.6	1992.0	1331.7
Indicator value	2.5	1.9	0.9	0	0	0.8	0.8	0.9

Licensee Comments:

2Q/06: Unit 2 completed Refueling Outage U2C16.

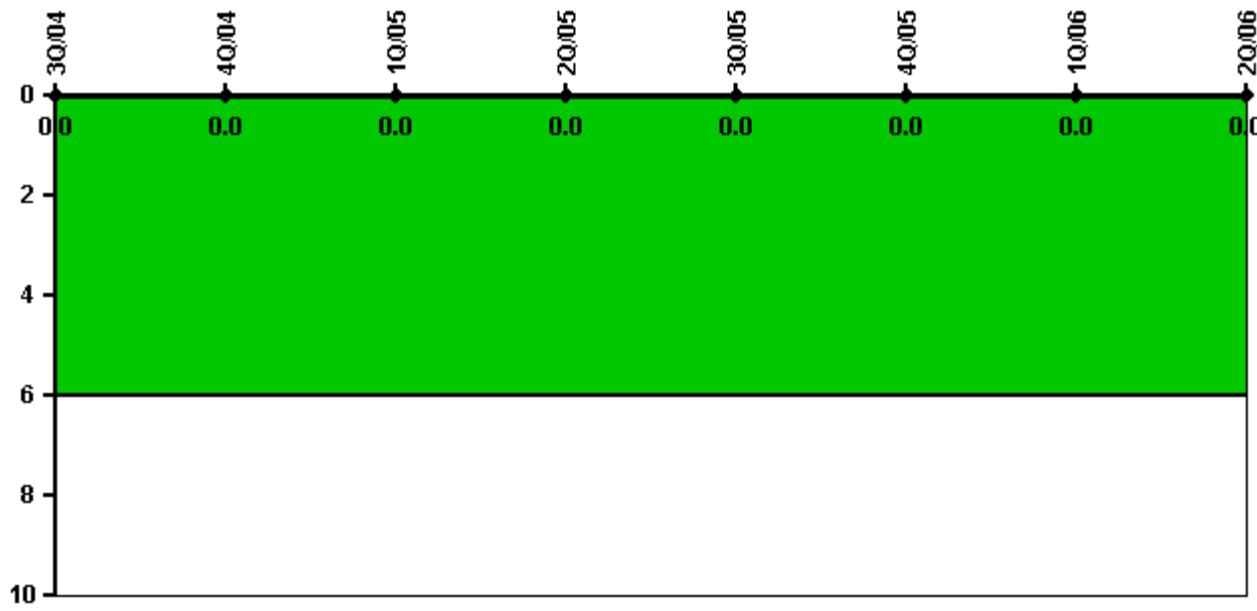
Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	5.0	4.0	4.0	3.0	2.0	2.0	1.0	0

Licensee Comments: none

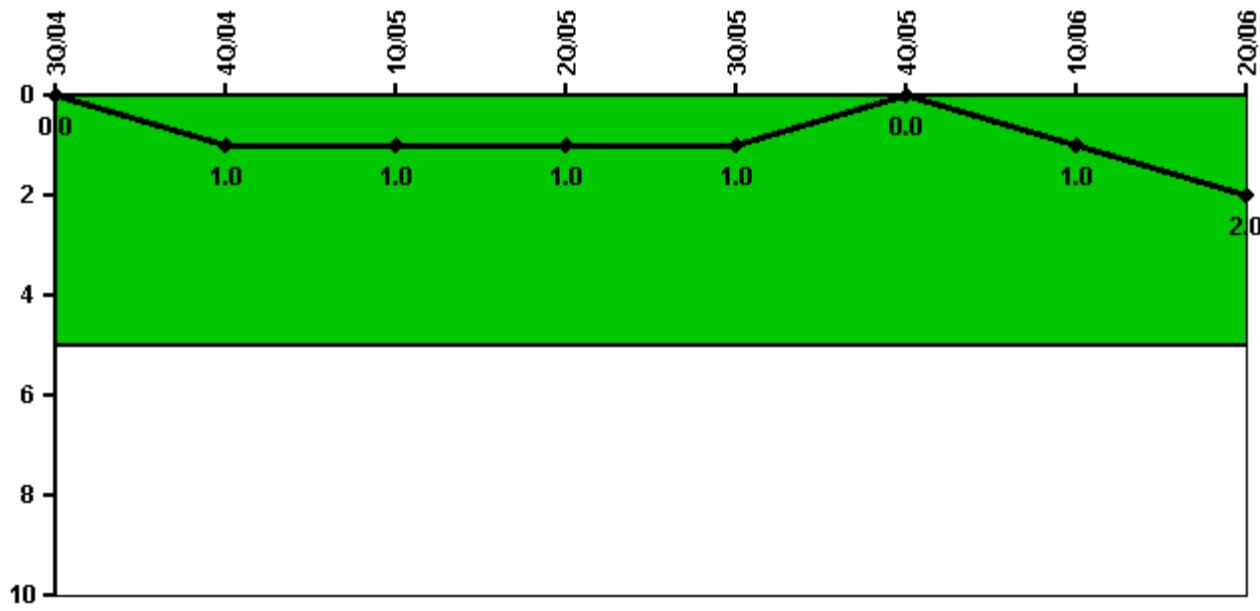
Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	1145.9	2135.0	2183.0	2179.0	2147.6	1992.0	1331.7
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Safety System Functional Failures (PWR)

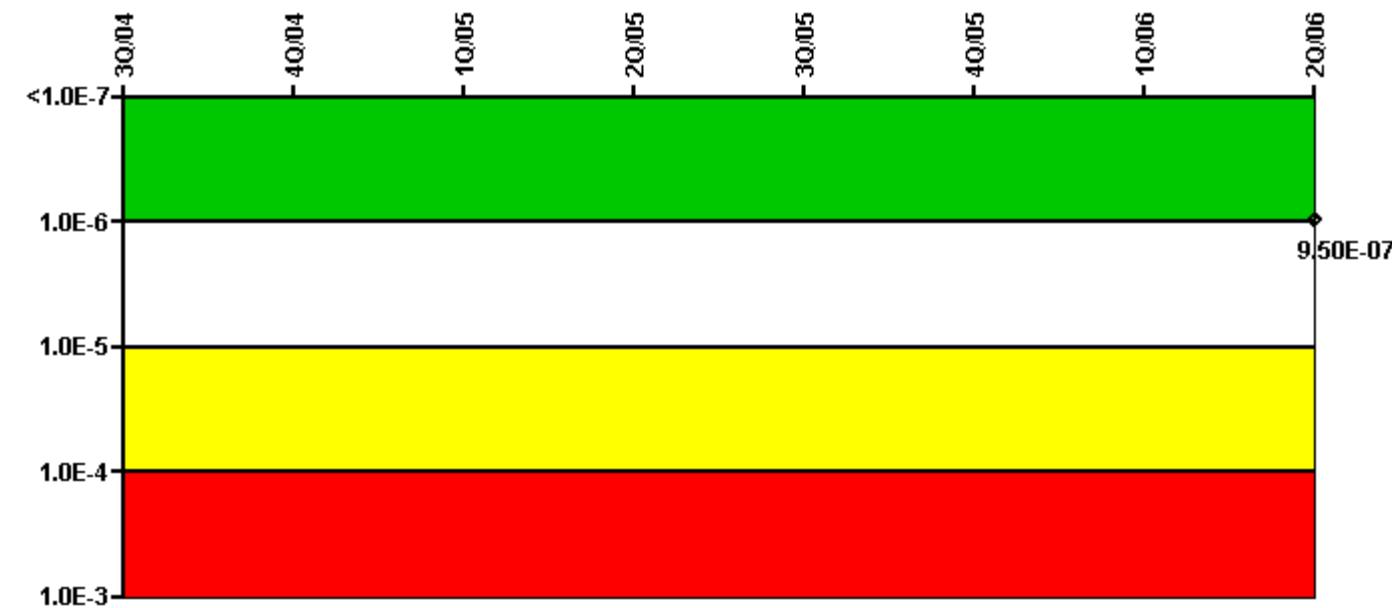
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Safety System Functional Failures	0	1	0	0	0	0	1	1
Indicator value	0	1	1	1	1	0	1	2

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



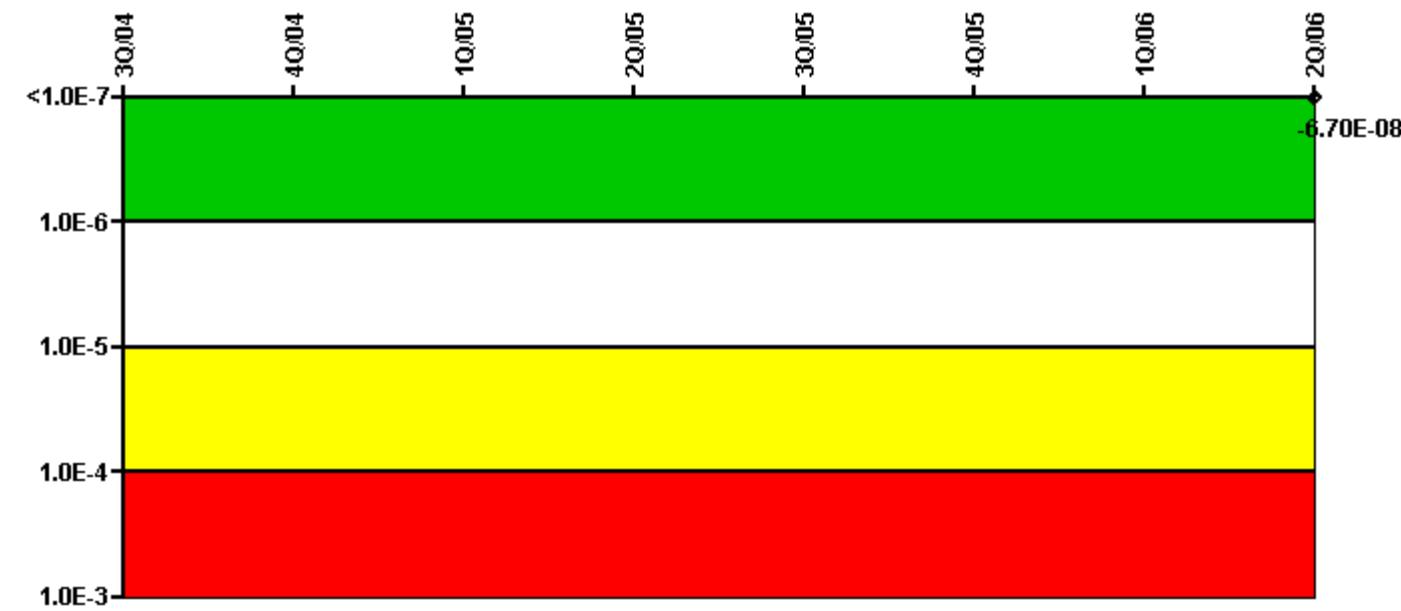
Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (Δ CDF)								$1.50E-07$
URI (Δ CDF)								$8.00E-07$
PLE								NO
Indicator value								$9.50E-07$

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



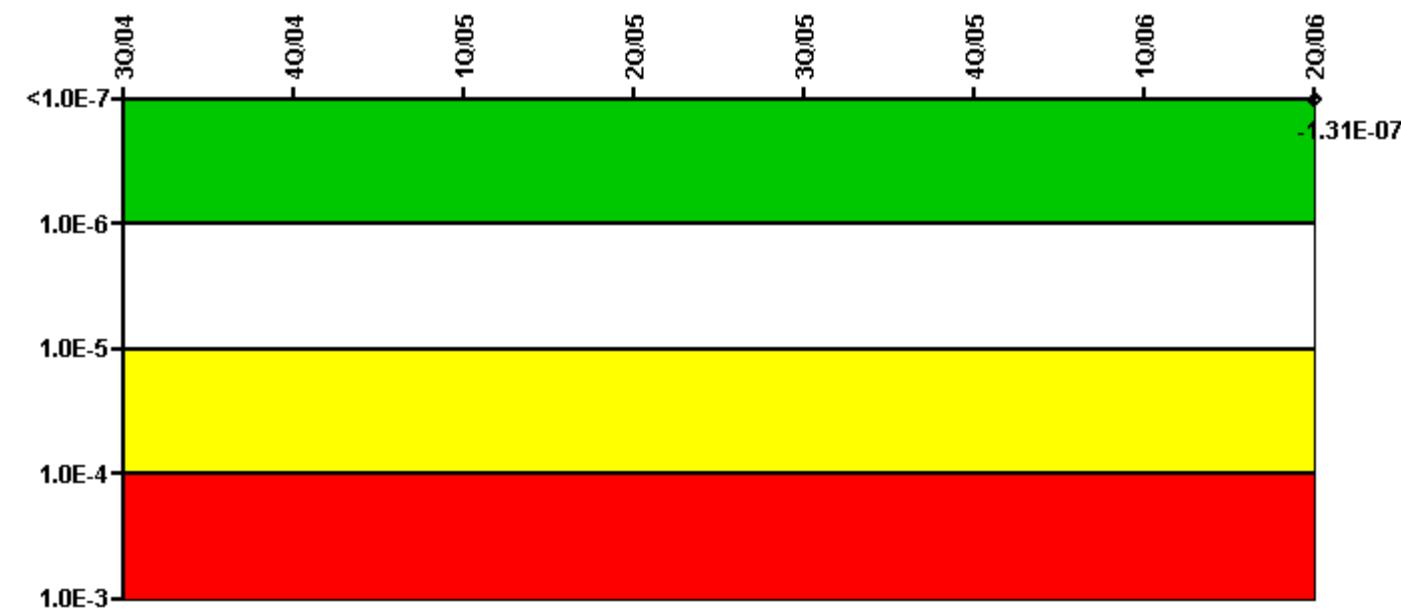
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (Δ CDF)								-2.20E-08
URI (Δ CDF)								-4.50E-08
PLE								NO
Indicator value								-6.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



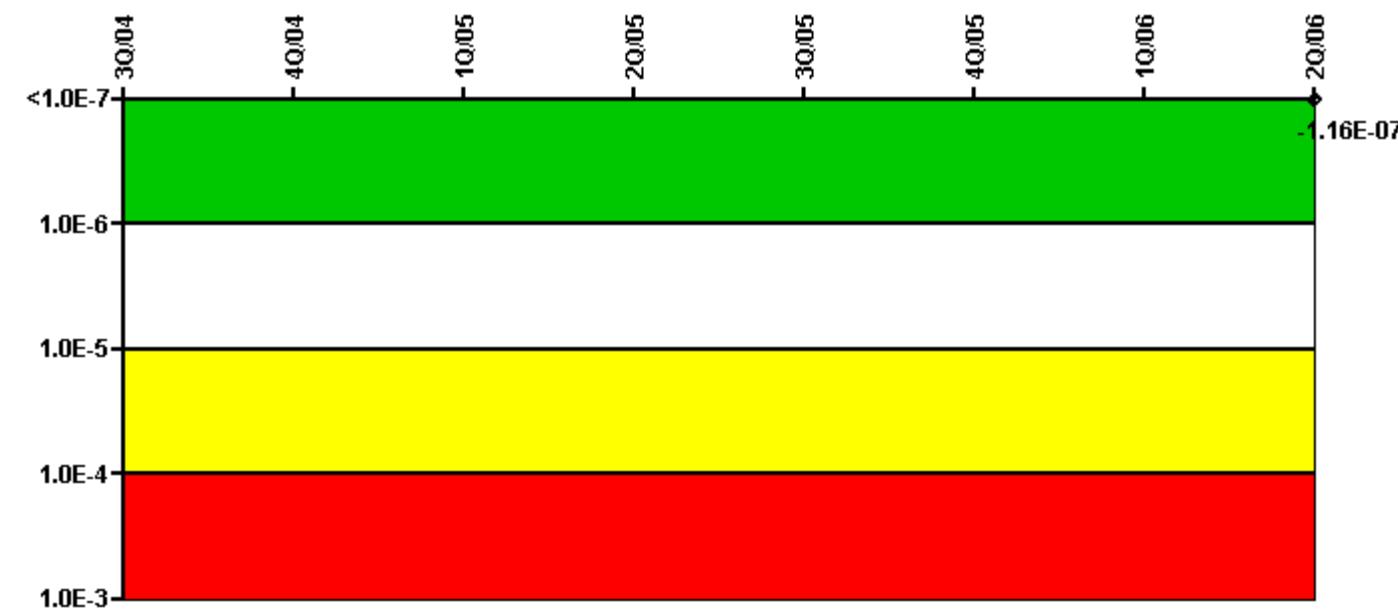
Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (Δ CDF)								$-4.20E-08$
URI (Δ CDF)								$-8.90E-08$
PLE								NO
Indicator value								$-1.31E-07$

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



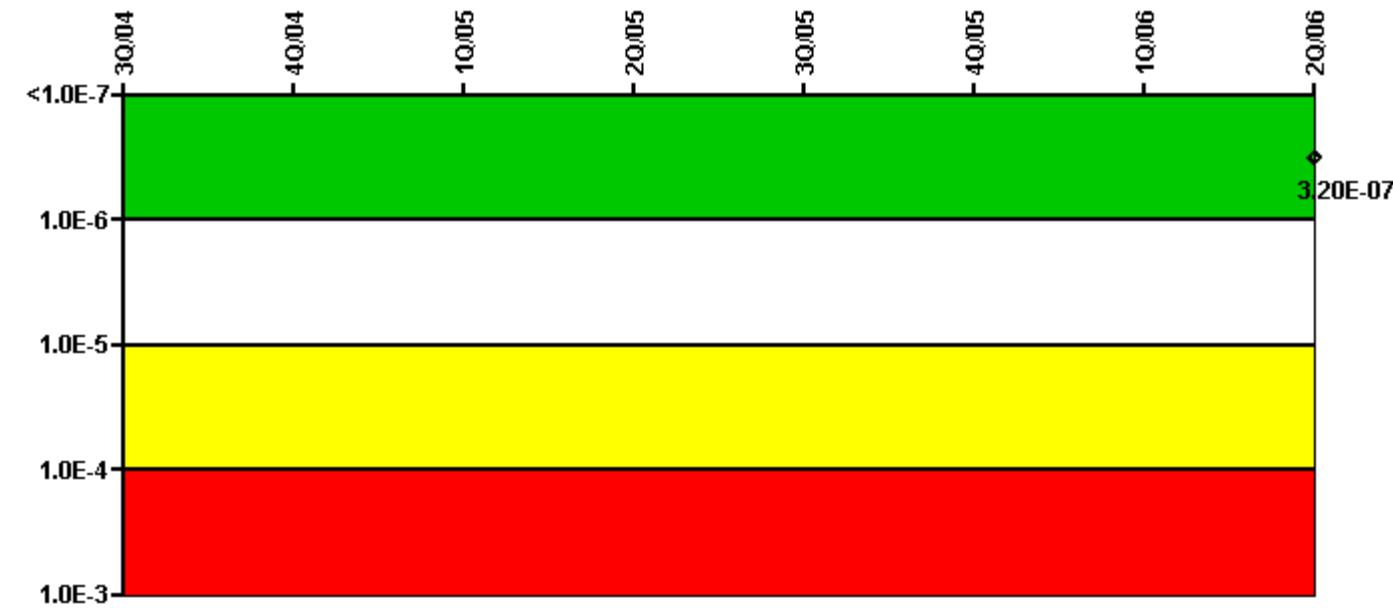
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (Δ CDF)								4.20E-09
URI (Δ CDF)								-1.20E-07
PLE								NO
Indicator value								-1.16E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



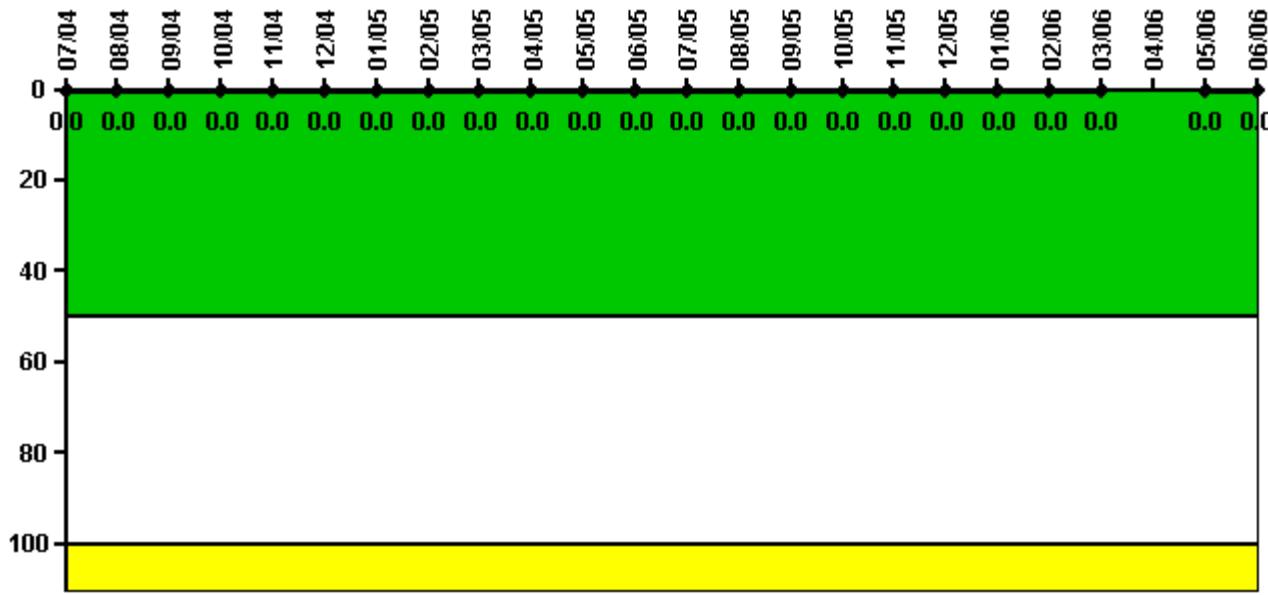
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (Δ CDF)								1.60E-07
URI (Δ CDF)								1.60E-07
PLE								NO
Indicator value								3.20E-07

Licensee Comments: none

Reactor Coolant System Activity



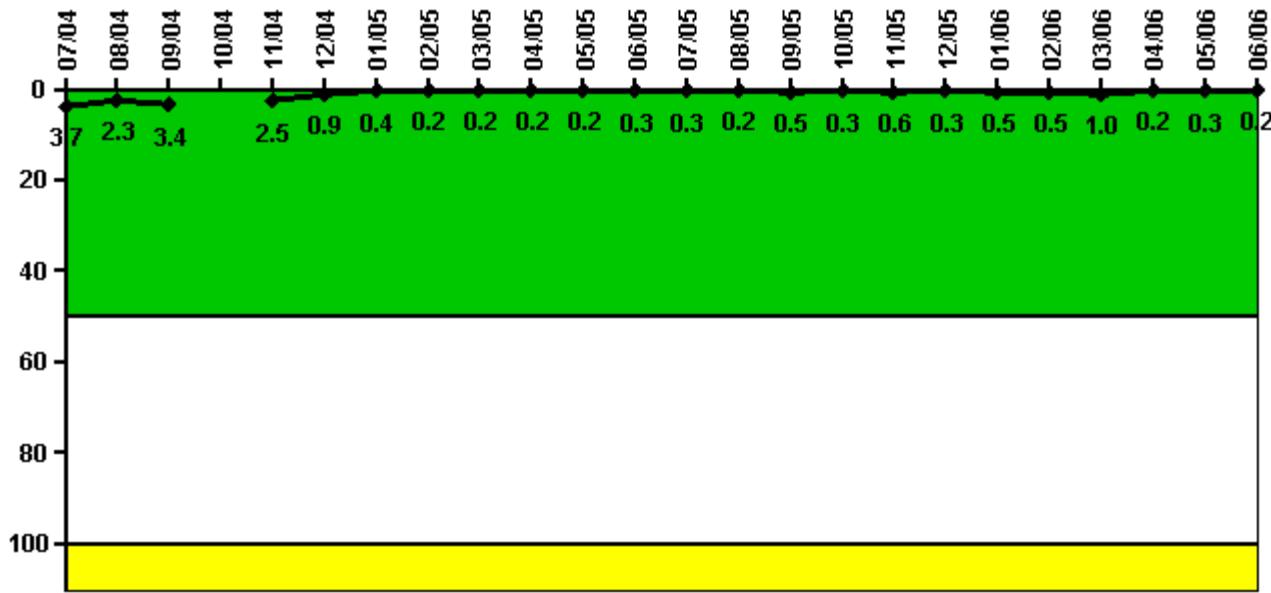
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05
Maximum activity	0.000283	0.000269	0.000469	0.000241	0.000136	0.000140	0.000150	0.000378	0.000345	0.000176	0.000198	0.000190
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06
Maximum activity	0.000198	0.000202	0.000204	0.000213	0.000224	0.000222	0.000286	0.000292	0.000294	N/A	0.000121	0.000127
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	N/A	0

Licensee Comments: none

Reactor Coolant System Leakage



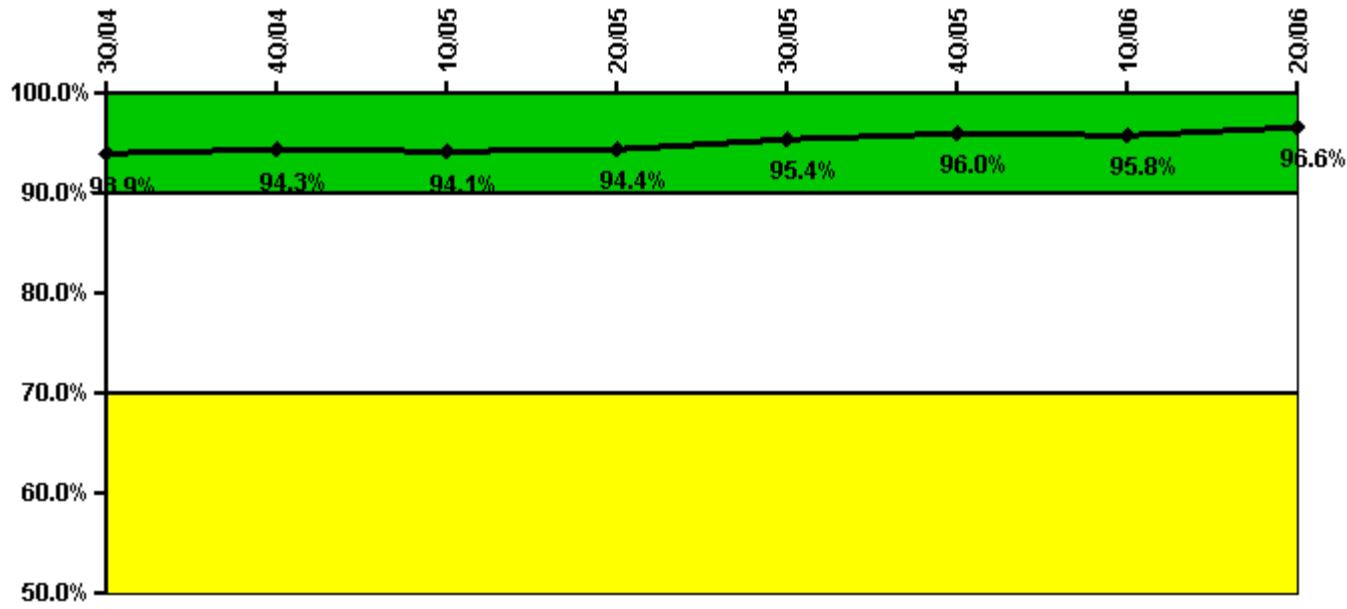
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05
Maximum leakage	0.408	0.257	0.369	N/A	0.274	0.096	0.039	0.020	0.019	0.020	0.022	0.034
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	3.7	2.3	3.4	N/A	2.5	0.9	0.4	0.2	0.2	0.2	0.2	0.3
Reactor Coolant System Leakage	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06
Maximum leakage	0.029	0.023	0.053	0.031	0.070	0.036	0.057	0.053	0.114	0.021	0.033	0.022
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.3	0.2	0.5	0.3	0.6	0.3	0.5	0.5	1.0	0.2	0.3	0.2

Licensee Comments: none

Drill/Exercise Performance



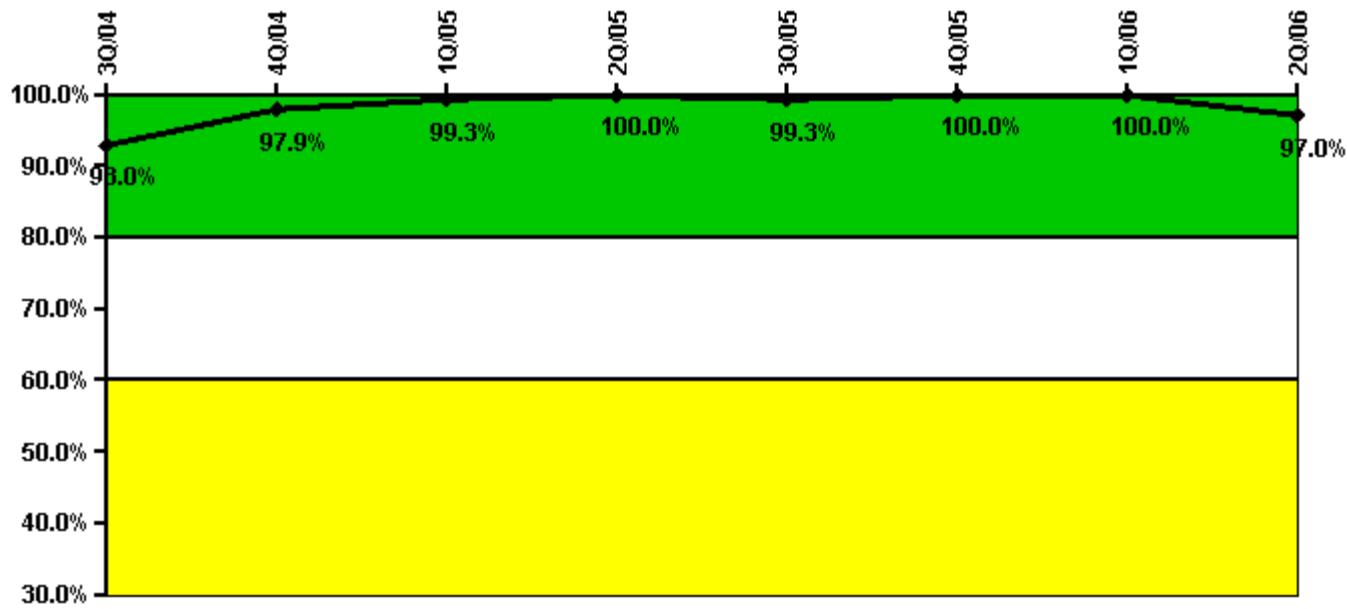
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful opportunities	74.0	67.0	89.0	87.0	108.0	58.0	78.0	84.0
Total opportunities	78.0	68.0	93.0	91.0	112.0	59.0	82.0	85.0
Indicator value	93.9%	94.3%	94.1%	94.4%	95.4%	96.0%	95.8%	96.6%

Licensee Comments: none

ERO Drill Participation



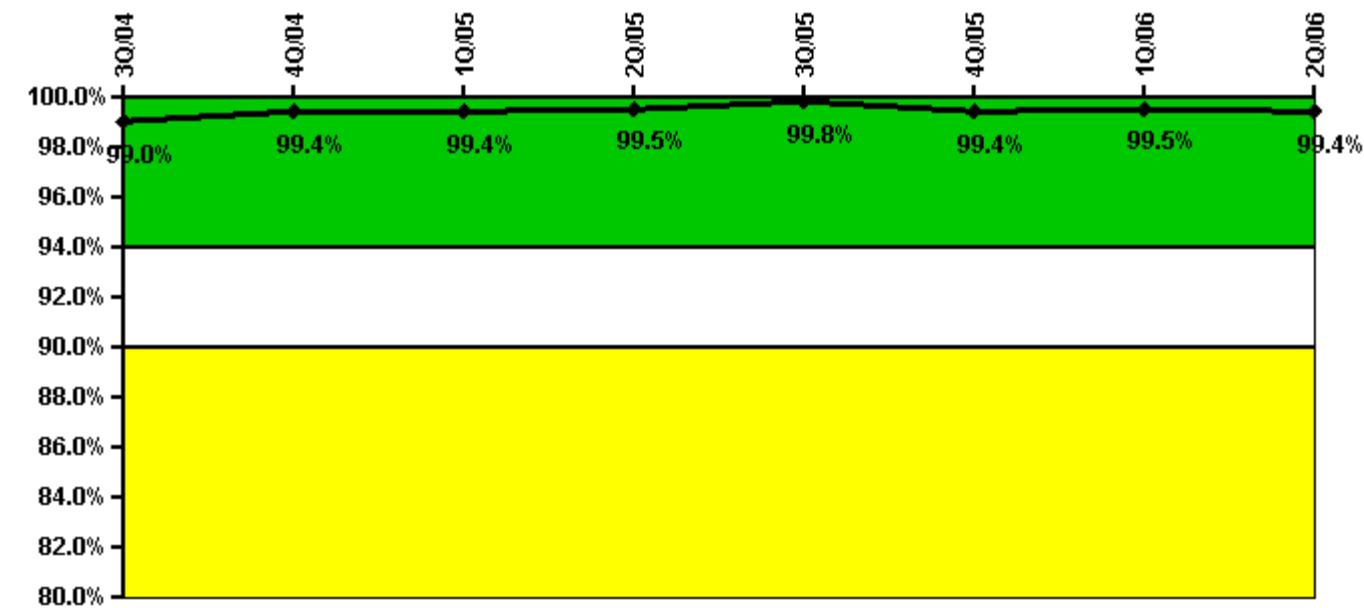
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Participating Key personnel	133.0	138.0	151.0	146.0	147.0	144.0	147.0	159.0
Total Key personnel	143.0	141.0	152.0	146.0	148.0	144.0	147.0	164.0
Indicator value	93.0%	97.9%	99.3%	100.0%	99.3%	100.0%	100.0%	97.0%

Licensee Comments: none

Alert & Notification System



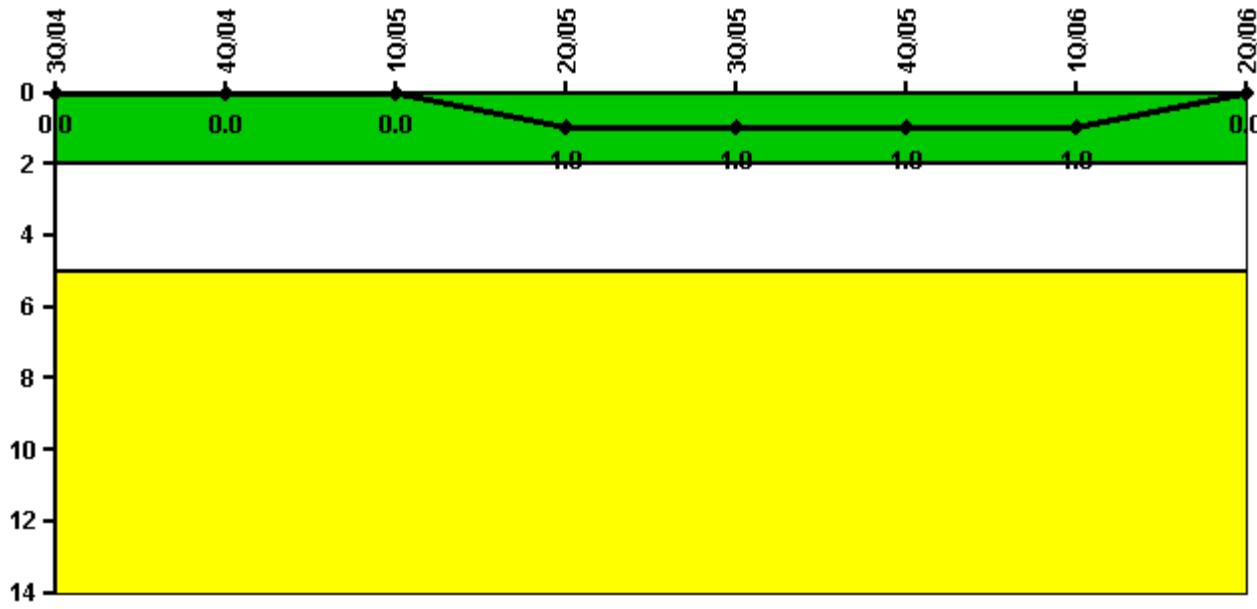
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful siren-tests	208	210	209	209	210	207	210	208
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	99.0%	99.4%	99.4%	99.5%	99.8%	99.4%	99.5%	99.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness

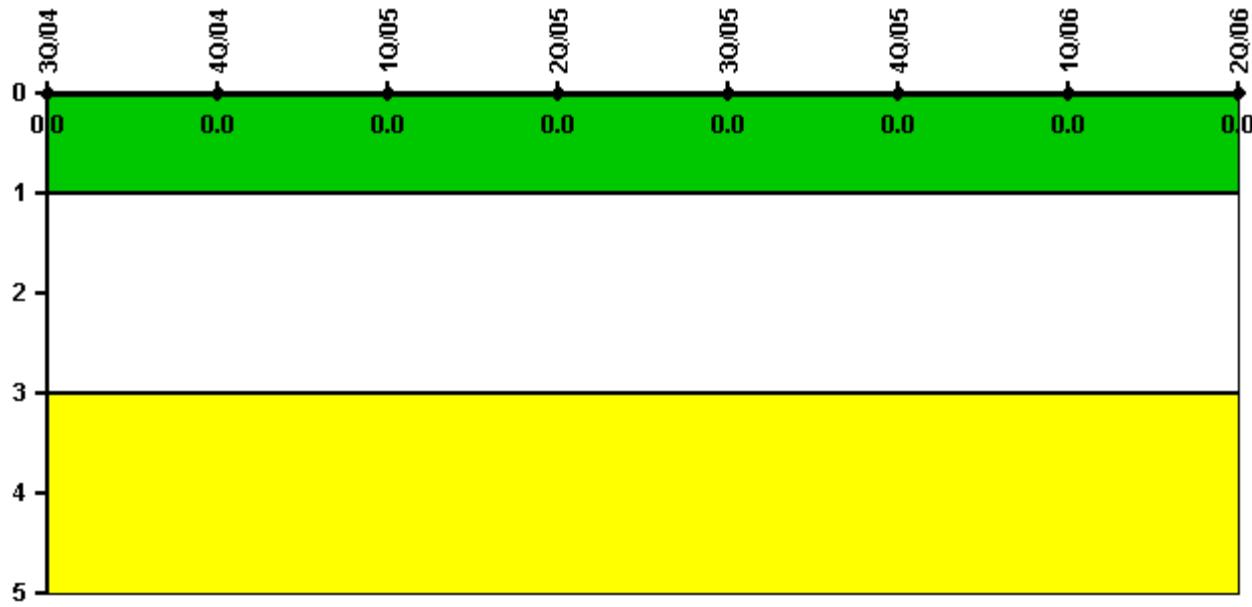


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
High radiation area occurrences	0	0	0	1	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	1	1	1	1	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Physical Protection](#) information not publicly available.

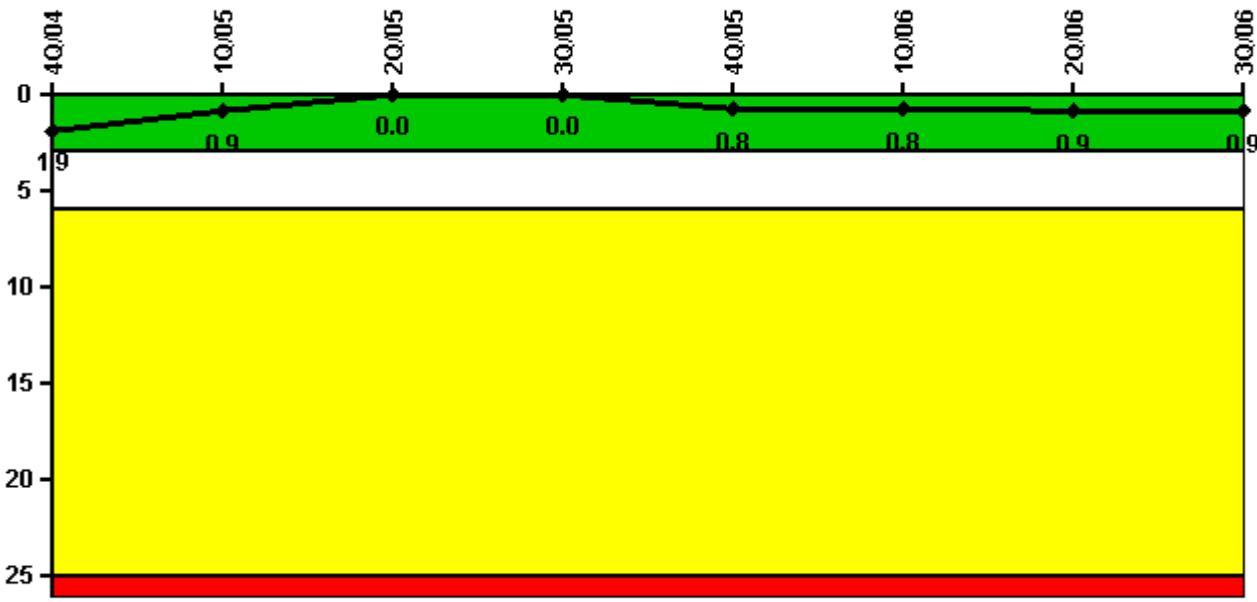


[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: August 2, 2006

D.C. Cook 2**3Q/2006 Performance Indicators**

Licensee's General Comments: none

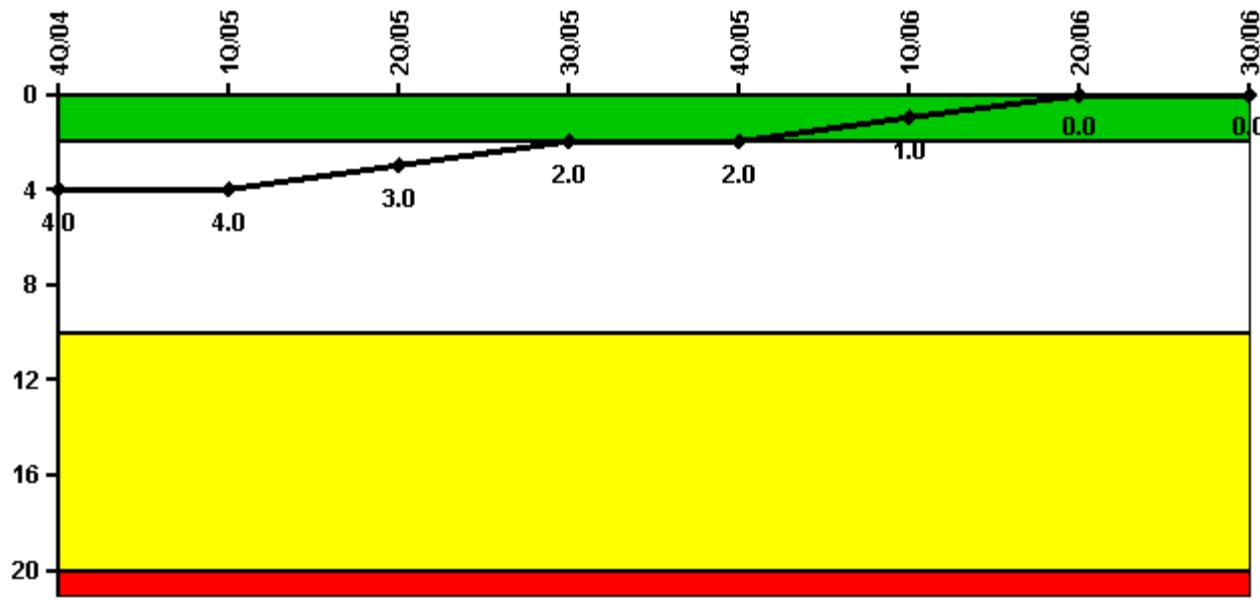
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	1145.9	2135.0	2183.0	2179.0	2147.6	1992.0	1331.7	2208.0
Indicator value	1.9	0.9	0	0	0.8	0.8	0.9	0.9

Licensee Comments: none

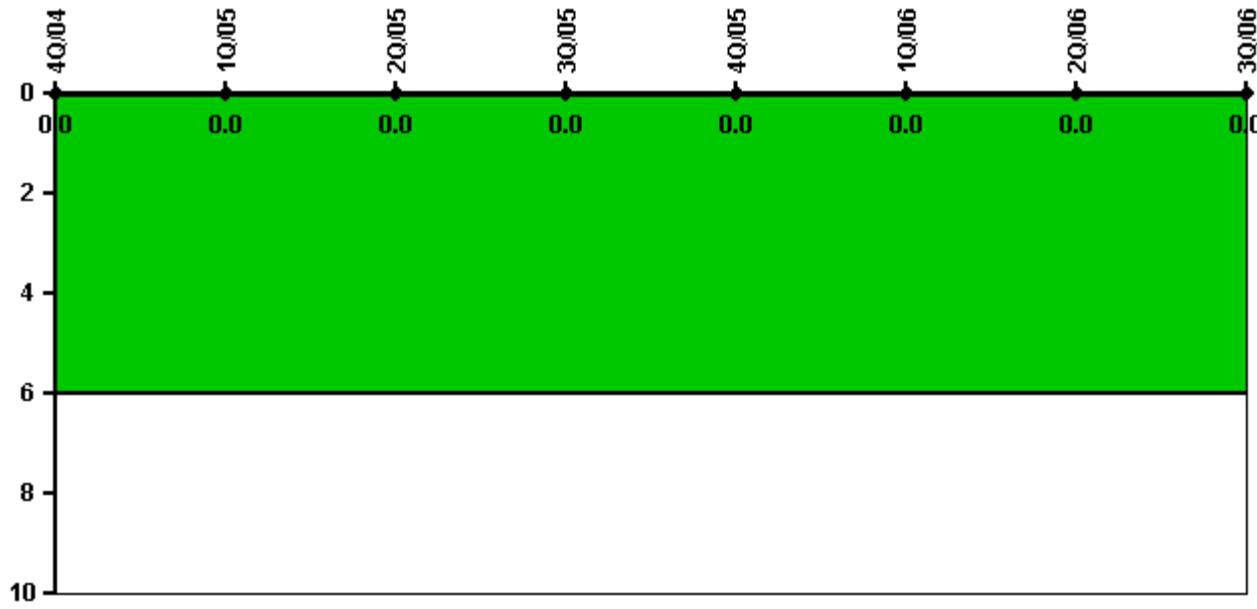
Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	4.0	4.0	3.0	2.0	2.0	1.0	0	0

Licensee Comments: none

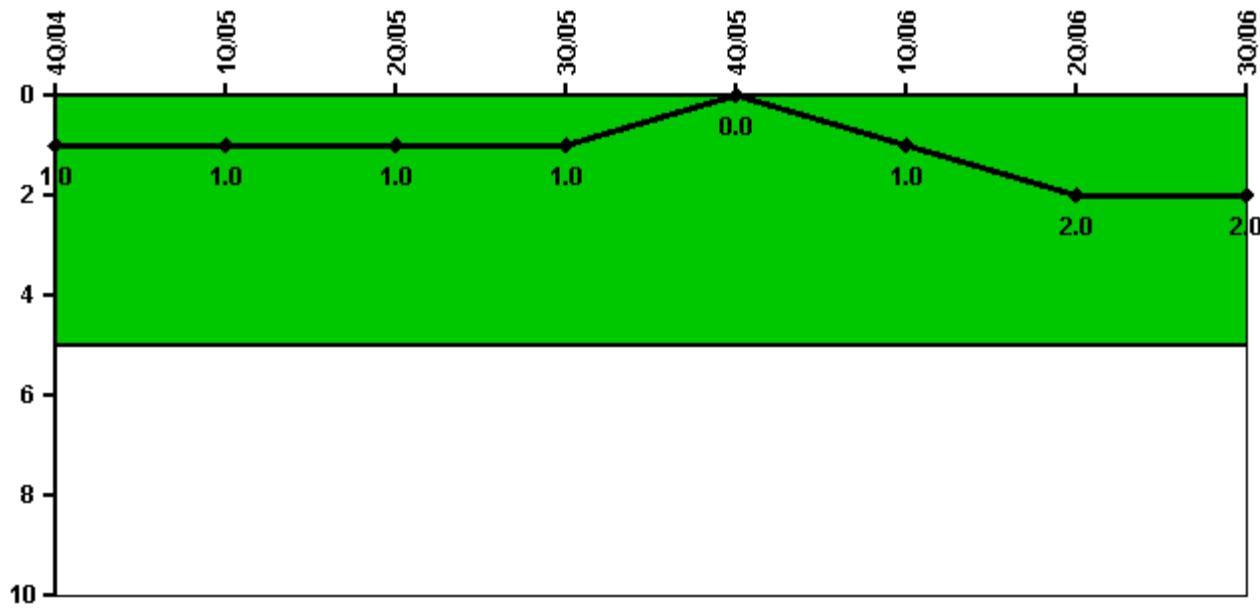
Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1145.9	2135.0	2183.0	2179.0	2147.6	1992.0	1331.7	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Safety System Functional Failures (PWR)

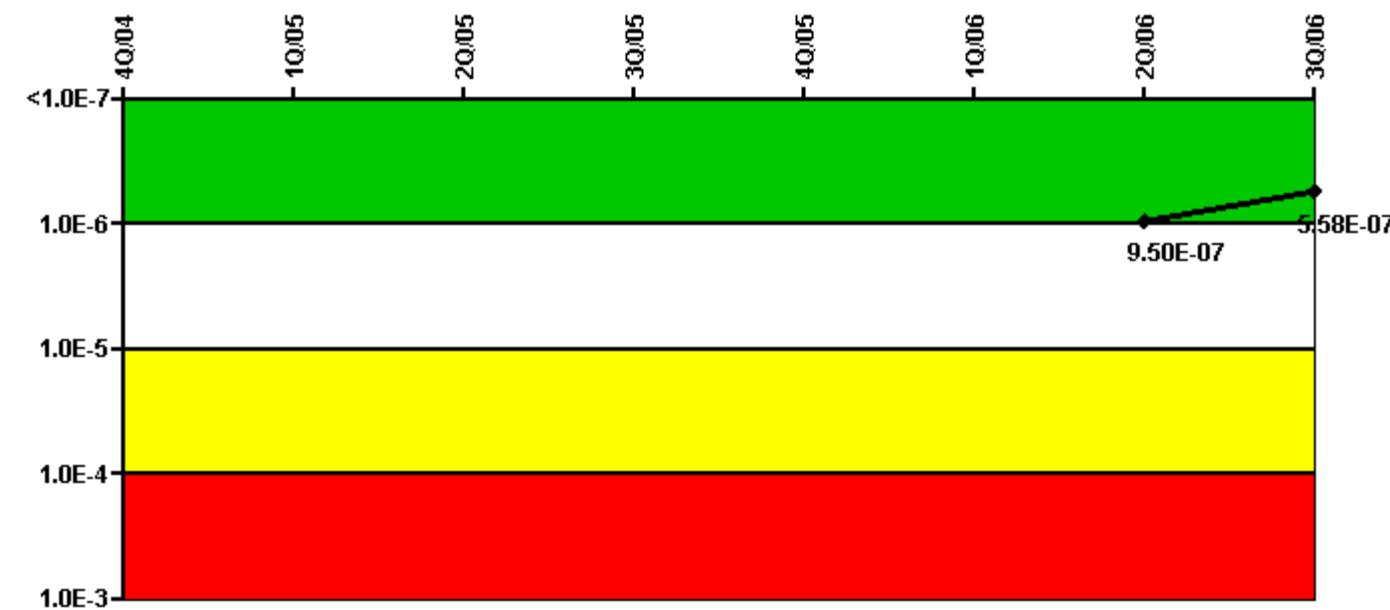
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Safety System Functional Failures	1	0	0	0	0	1	1	0
Indicator value	1	1	1	1	0	1	2	2

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



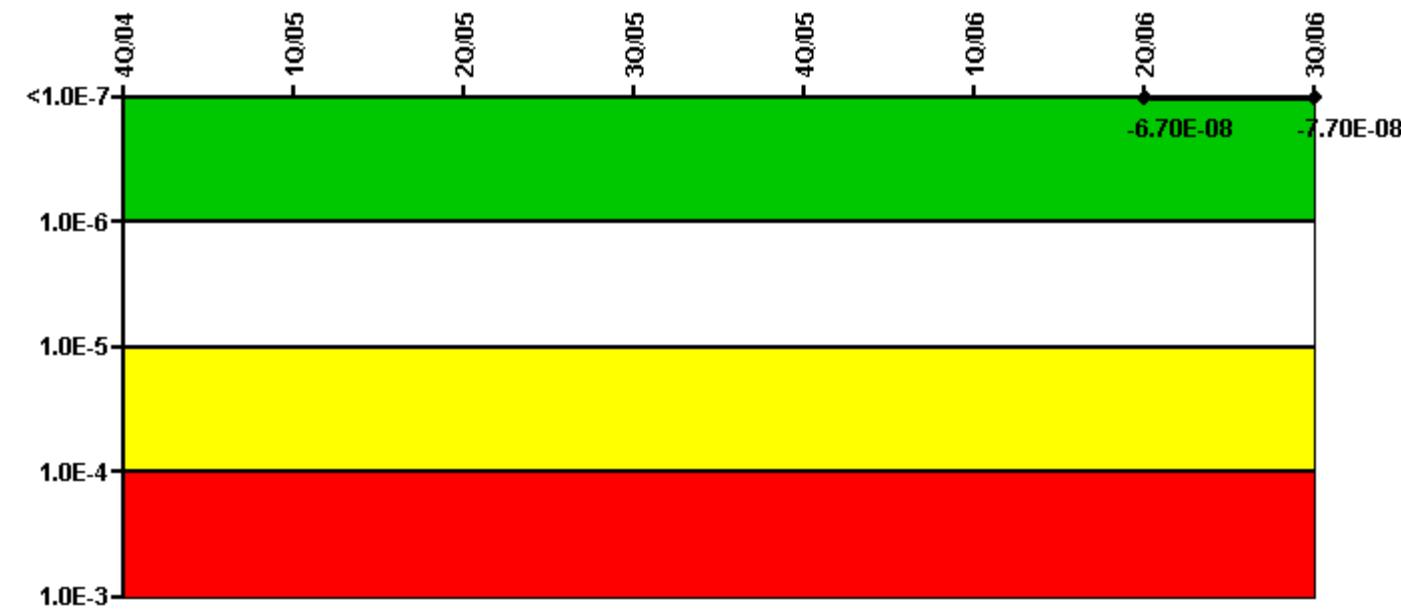
Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (Δ CDF)							$1.50E-07$	$9.80E-08$
URI (Δ CDF)							$8.00E-07$	$4.60E-07$
PLE							NO	NO
Indicator value							$9.50E-07$	$5.58E-07$

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



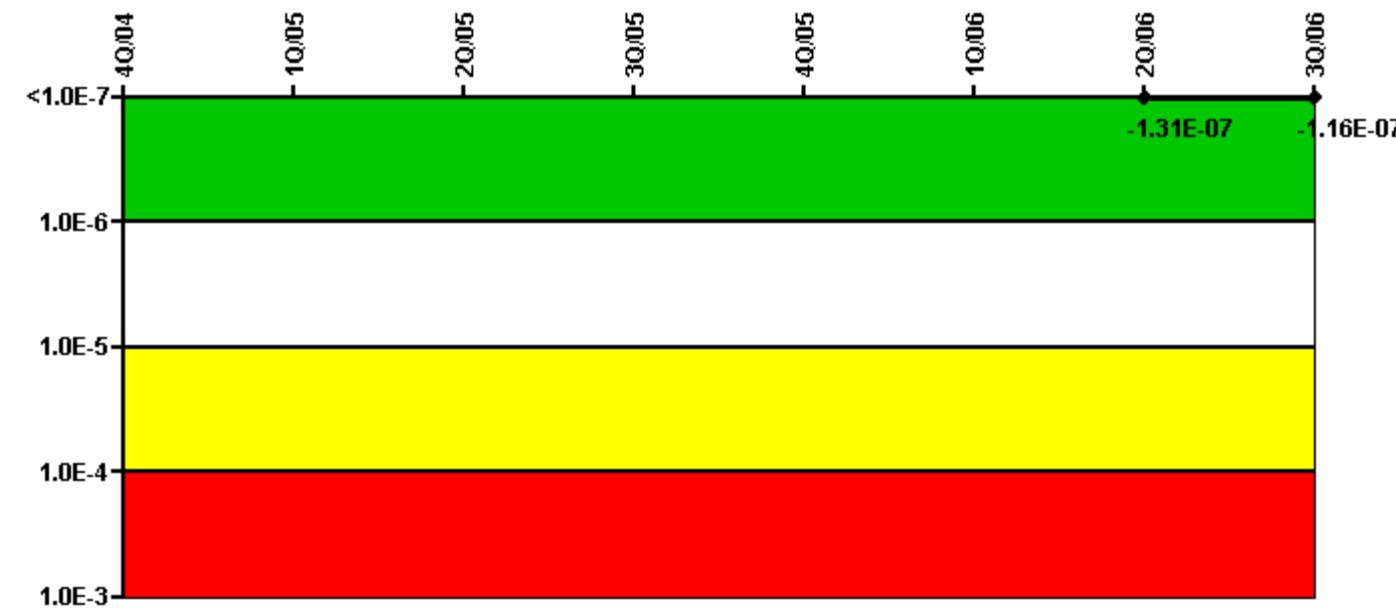
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (Δ CDF)							-2.20E-08	-2.90E-08
URI (Δ CDF)							-4.50E-08	-4.80E-08
PLE							NO	NO
Indicator value							-6.70E-08	-7.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



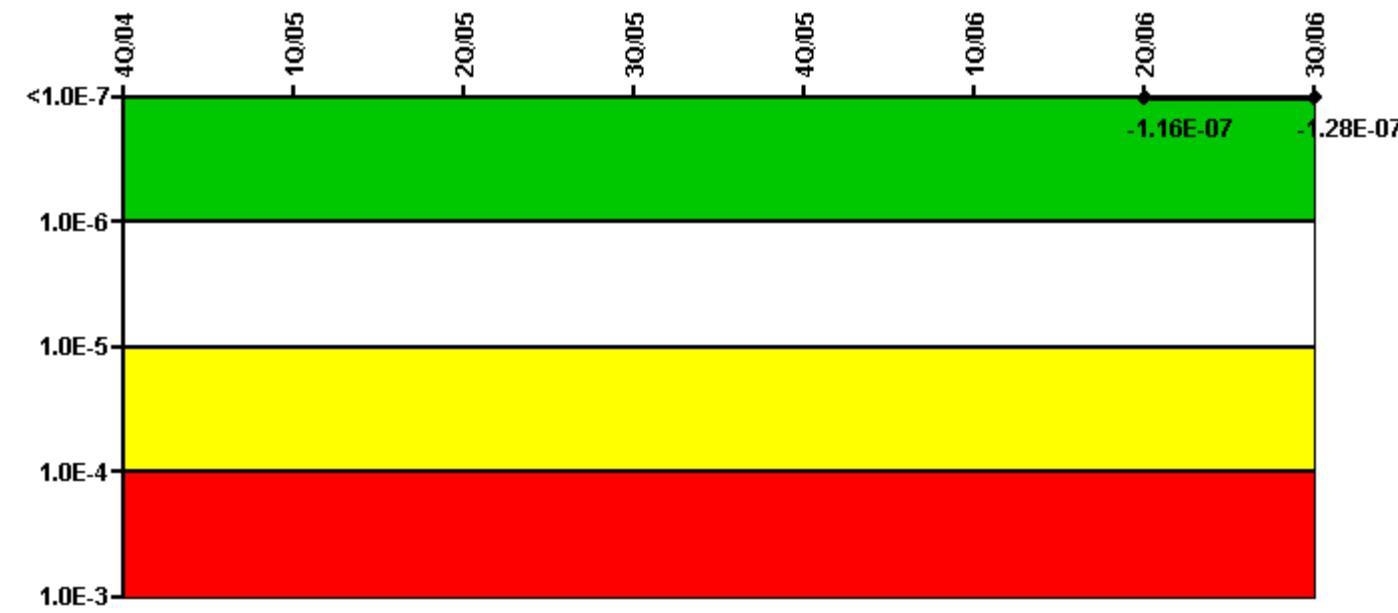
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							-4.20E-08	-2.30E-08
URI (ΔCDF)							-8.90E-08	-9.30E-08
PLE							NO	NO
Indicator value							-1.31E-07	-1.16E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



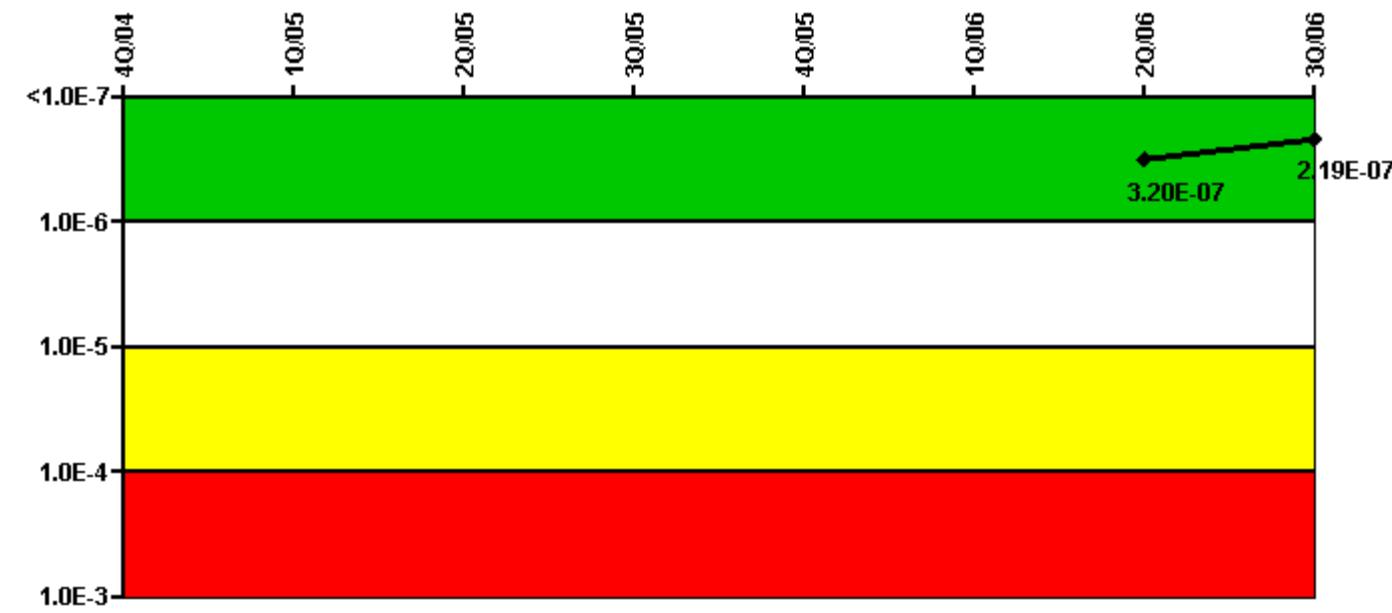
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (Δ CDF)							4.20E-09	1.70E-09
URI (Δ CDF)							-1.20E-07	-1.30E-07
PLE							NO	NO
Indicator value							-1.16E-07	-1.28E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



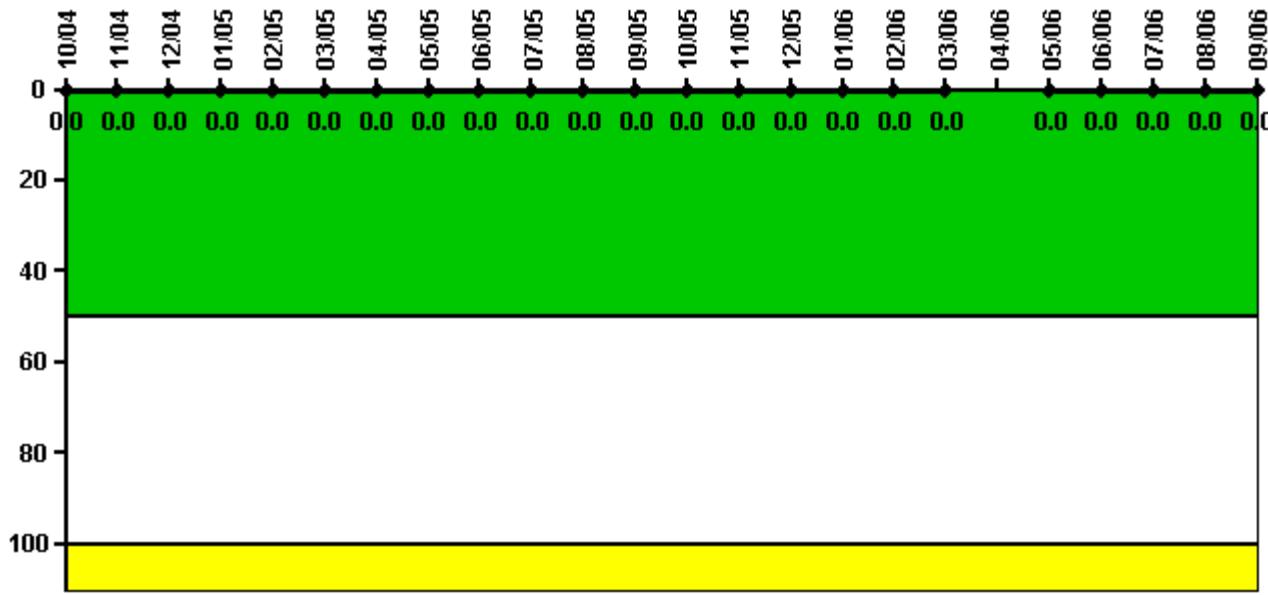
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							1.60E-07	2.90E-08
URI (ΔCDF)							1.60E-07	1.90E-07
PLE						NO	NO	
Indicator value						3.20E-07	2.19E-07	

Licensee Comments: none

Reactor Coolant System Activity



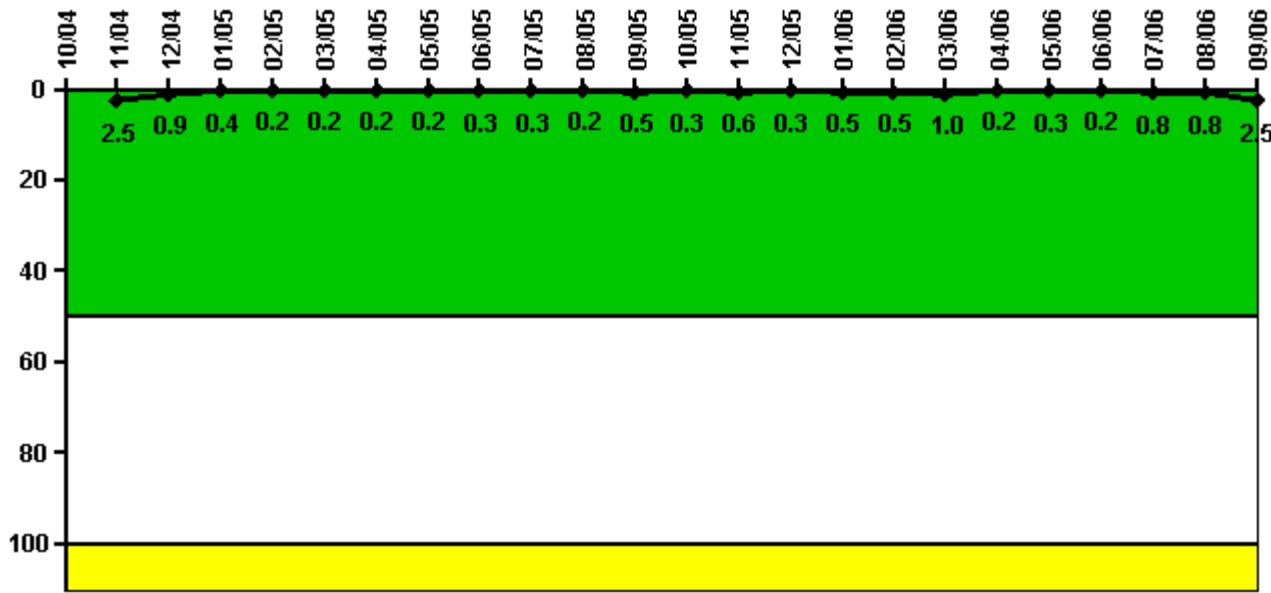
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum activity	0.000241	0.000136	0.000140	0.000150	0.000378	0.000345	0.000176	0.000198	0.000190	0.000198	0.000202	0.000204
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06
Maximum activity	0.000213	0.000224	0.000222	0.000286	0.000292	0.000294	N/A	0.000121	0.000127	0.000132	0.000142	0.000168
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	N/A	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



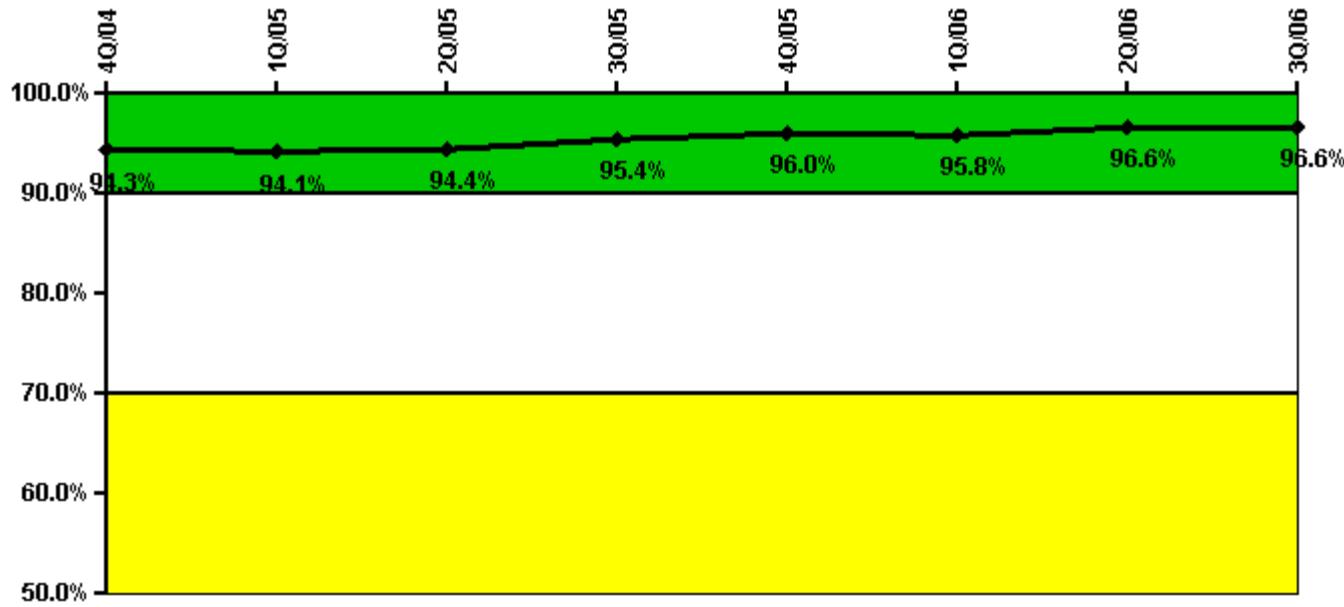
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum leakage	N/A	0.274	0.096	0.039	0.020	0.019	0.020	0.022	0.034	0.029	0.023	0.053
Indicator value	N/A	2.5	0.9	0.4	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.5
Reactor Coolant System Leakage	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06
Maximum leakage	0.031	0.070	0.036	0.057	0.053	0.114	0.021	0.033	0.022	0.086	0.090	0.280
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.3	0.6	0.3	0.5	0.5	1.0	0.2	0.3	0.2	0.8	0.8	2.5

Licensee Comments: none

Drill/Exercise Performance



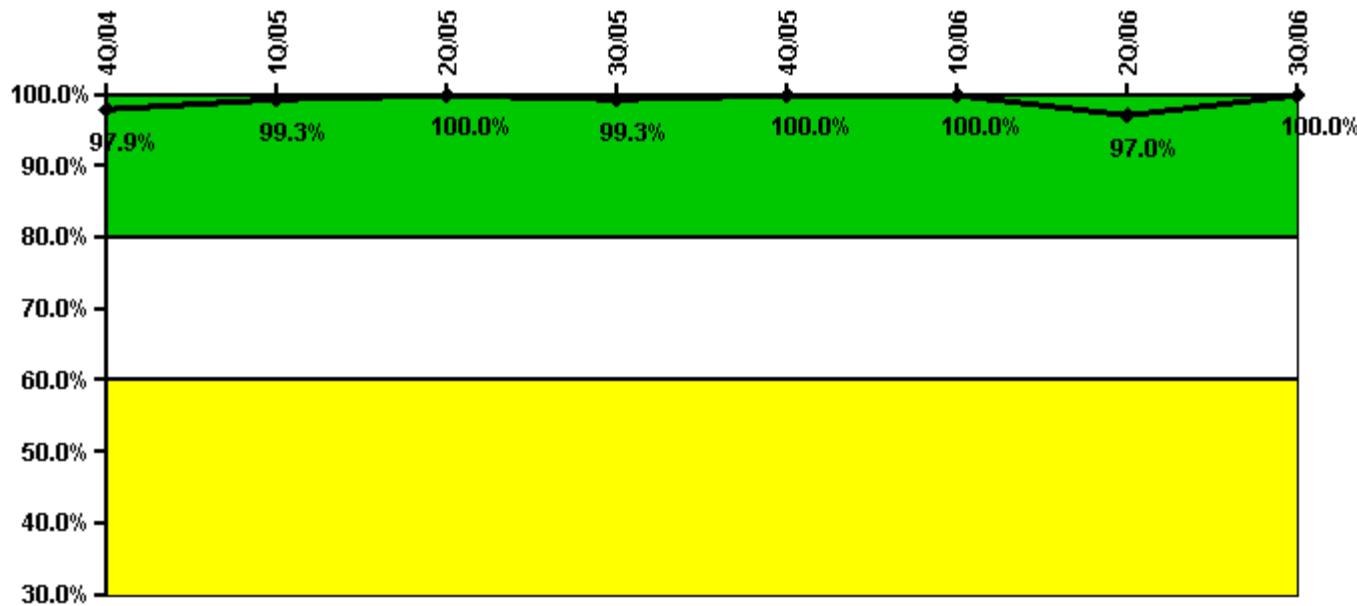
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful opportunities	67.0	89.0	87.0	108.0	58.0	78.0	84.0	57.0
Total opportunities	68.0	93.0	91.0	112.0	59.0	82.0	85.0	60.0
Indicator value	94.3%	94.1%	94.4%	95.4%	96.0%	95.8%	96.6%	96.6%

Licensee Comments: none

ERO Drill Participation



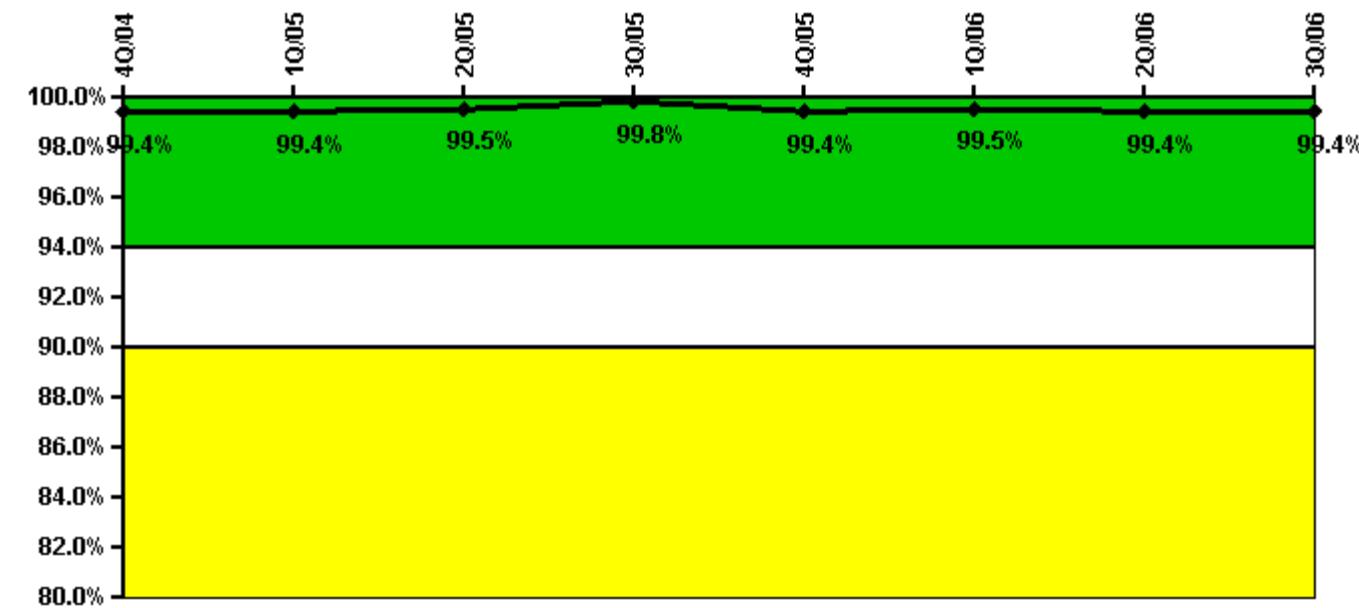
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Participating Key personnel	138.0	151.0	146.0	147.0	144.0	147.0	159.0	157.0
Total Key personnel	141.0	152.0	146.0	148.0	144.0	147.0	164.0	157.0
Indicator value	97.9%	99.3%	100.0%	99.3%	100.0%	100.0%	97.0%	100.0%

Licensee Comments: none

Alert & Notification System

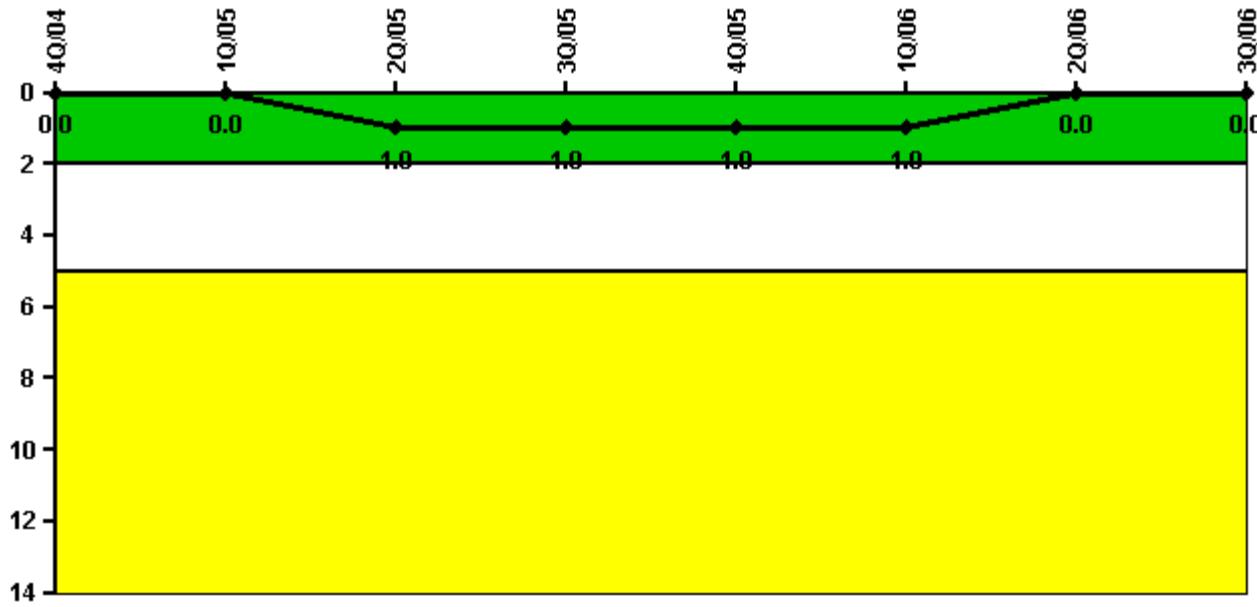


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful siren-tests	210	209	209	210	207	210	208	210
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	99.4%	99.4%	99.5%	99.8%	99.4%	99.5%	99.4%	99.4%

Licensee Comments: none

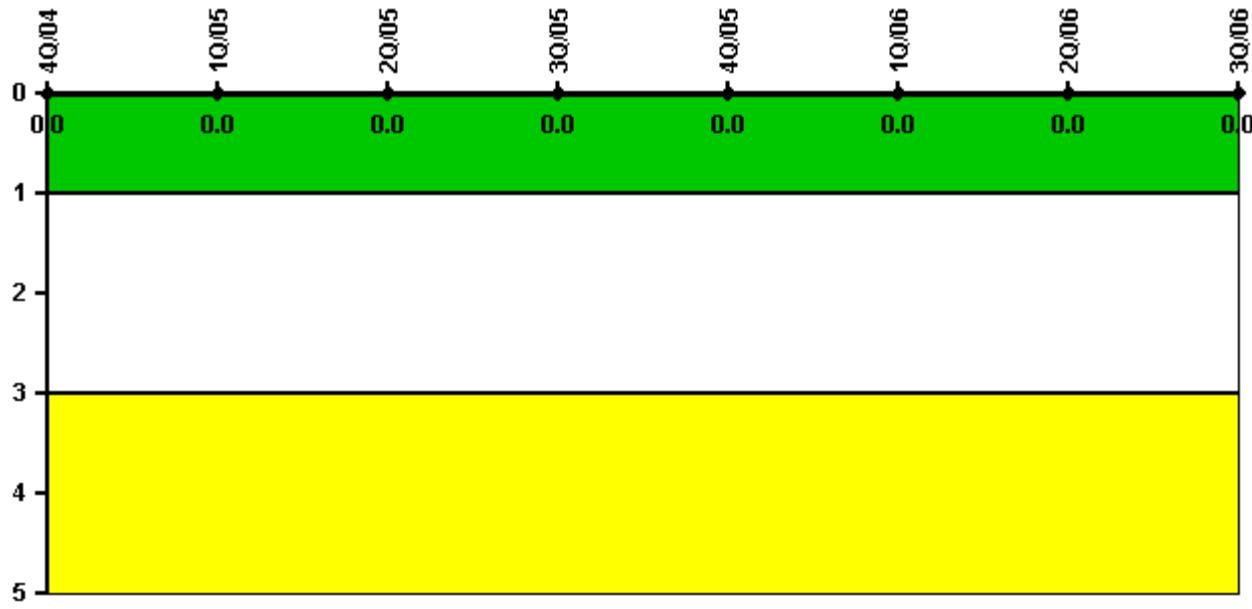
Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
High radiation area occurrences	0	0	1	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	1	1	1	1	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

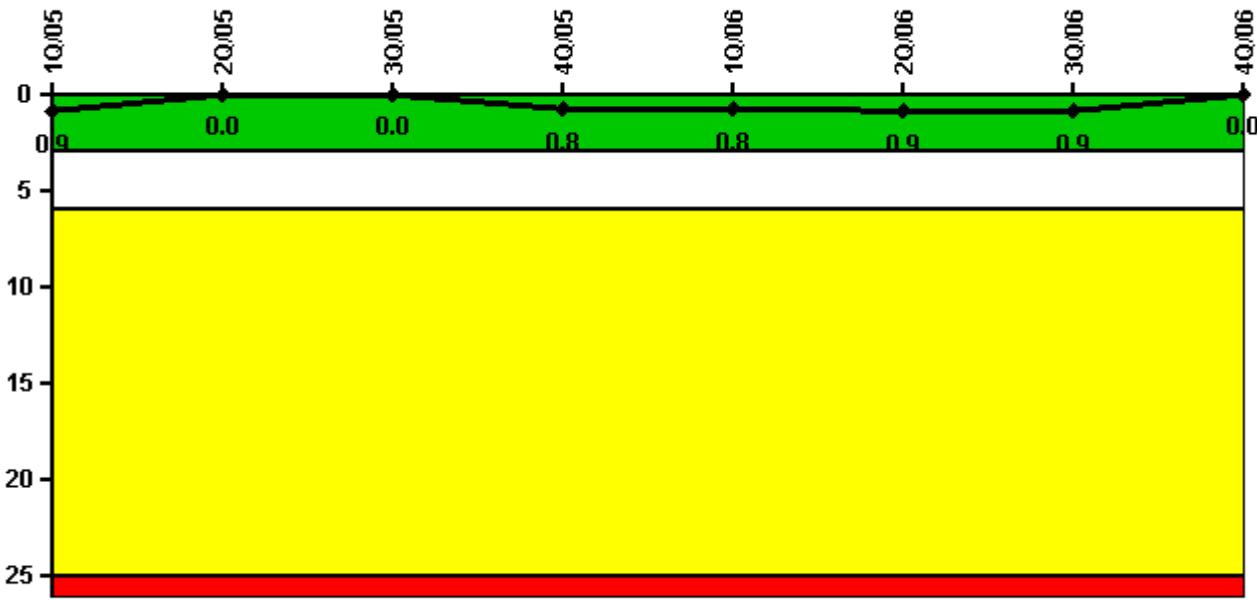
RETS/ODCM Radiological Effluent	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

[Physical Protection](#) information not publicly available.

D.C. Cook 2**4Q/2006 Performance Indicators**

Licensee's General Comments: none

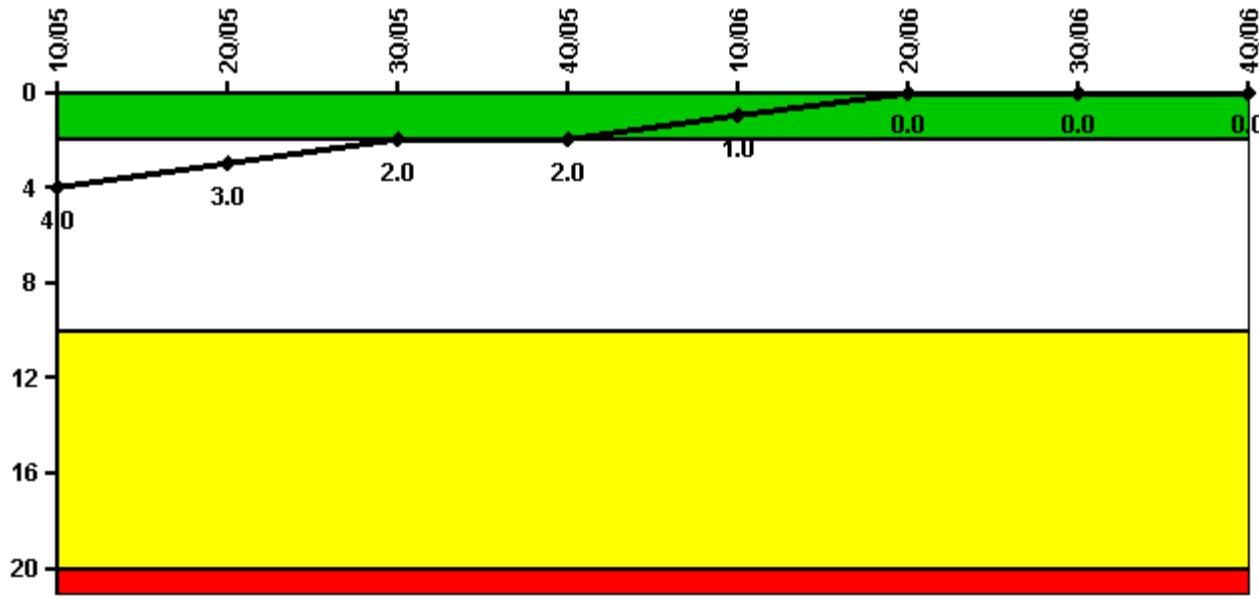
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2135.0	2183.0	2179.0	2147.6	1992.0	1331.7	2208.0	2209.0
Indicator value	0.9	0	0	0.8	0.8	0.9	0.9	0

Licensee Comments: none

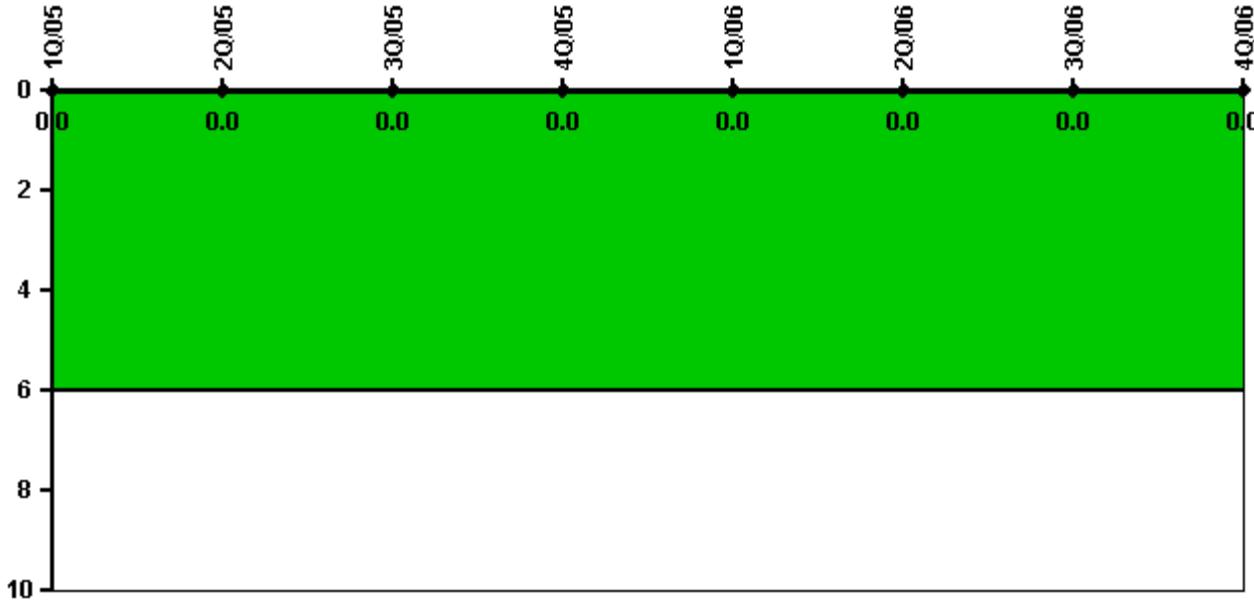
Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	4.0	3.0	2.0	2.0	1.0	0	0	0

Licensee Comments: none

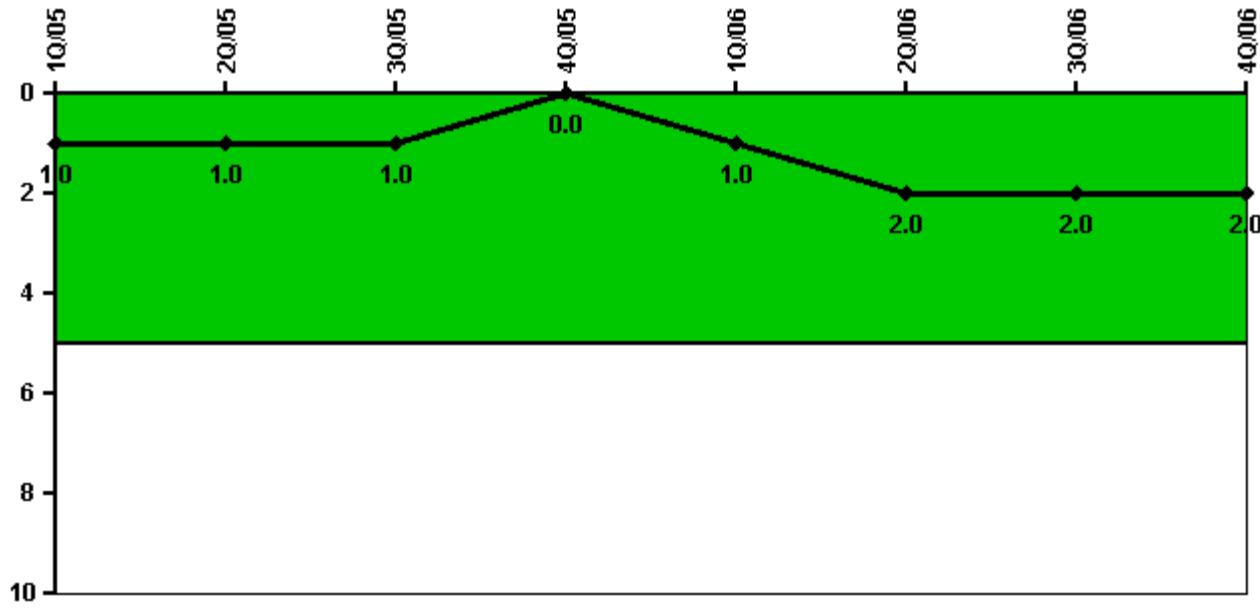
Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2135.0	2183.0	2179.0	2147.6	1992.0	1331.7	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Safety System Functional Failures (PWR)

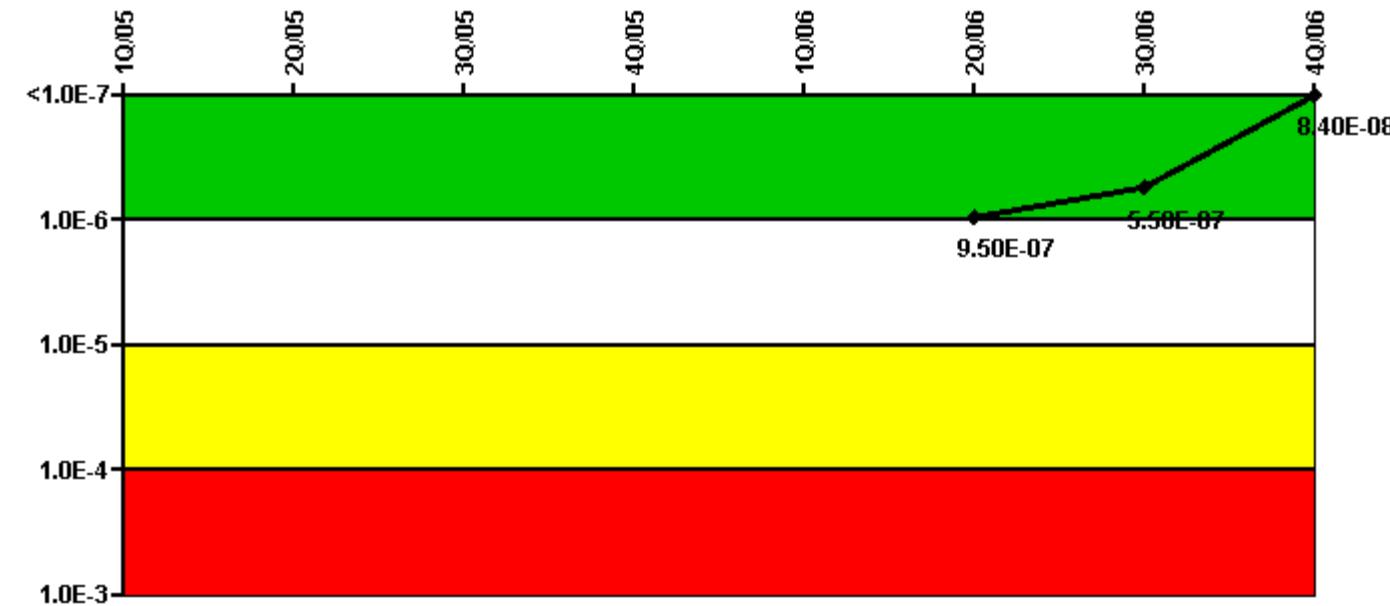
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Safety System Functional Failures	0	0	0	0	1	1	0	0
Indicator value	1	1	1	0	1	2	2	2

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



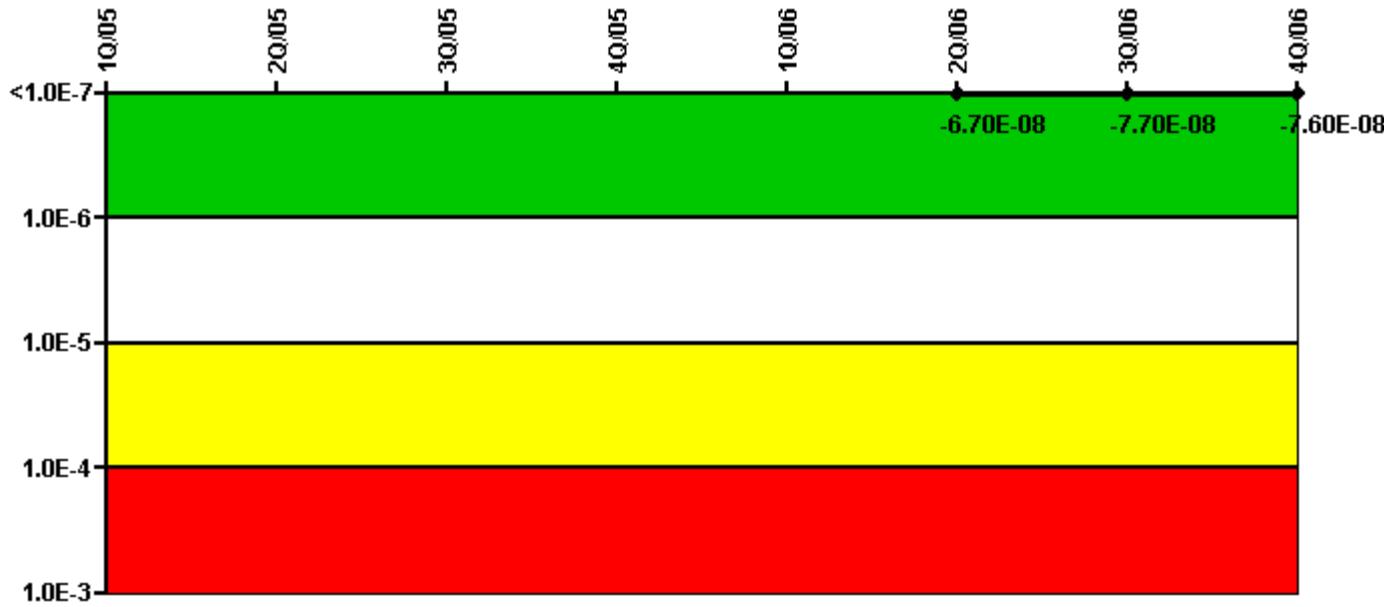
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (Δ CDF)						1.50E-07	9.80E-08	1.20E-08
URI (Δ CDF)						8.00E-07	4.60E-07	7.20E-08
PLE						NO	NO	NO
Indicator value						9.50E-07	5.58E-07	8.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



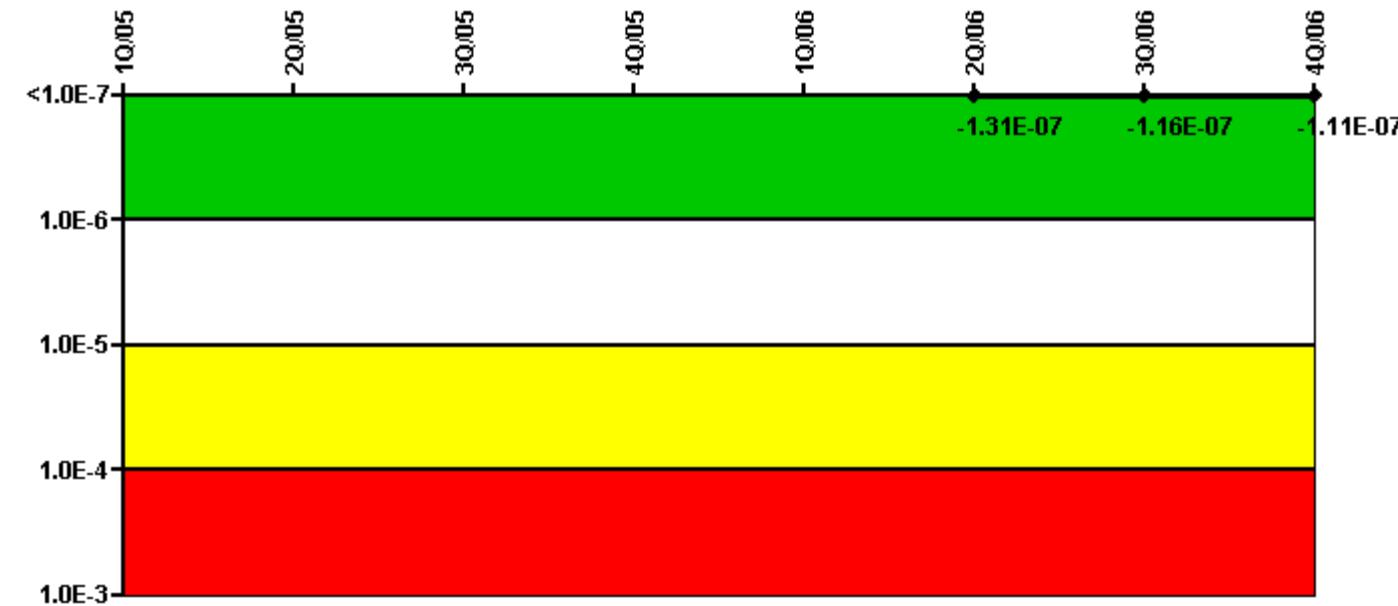
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (Δ CDF)						-2.20E-08	-2.90E-08	-3.40E-08
URI (Δ CDF)						-4.50E-08	-4.80E-08	-4.20E-08
PLE						NO	NO	NO
Indicator value						-6.70E-08	-7.70E-08	-7.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



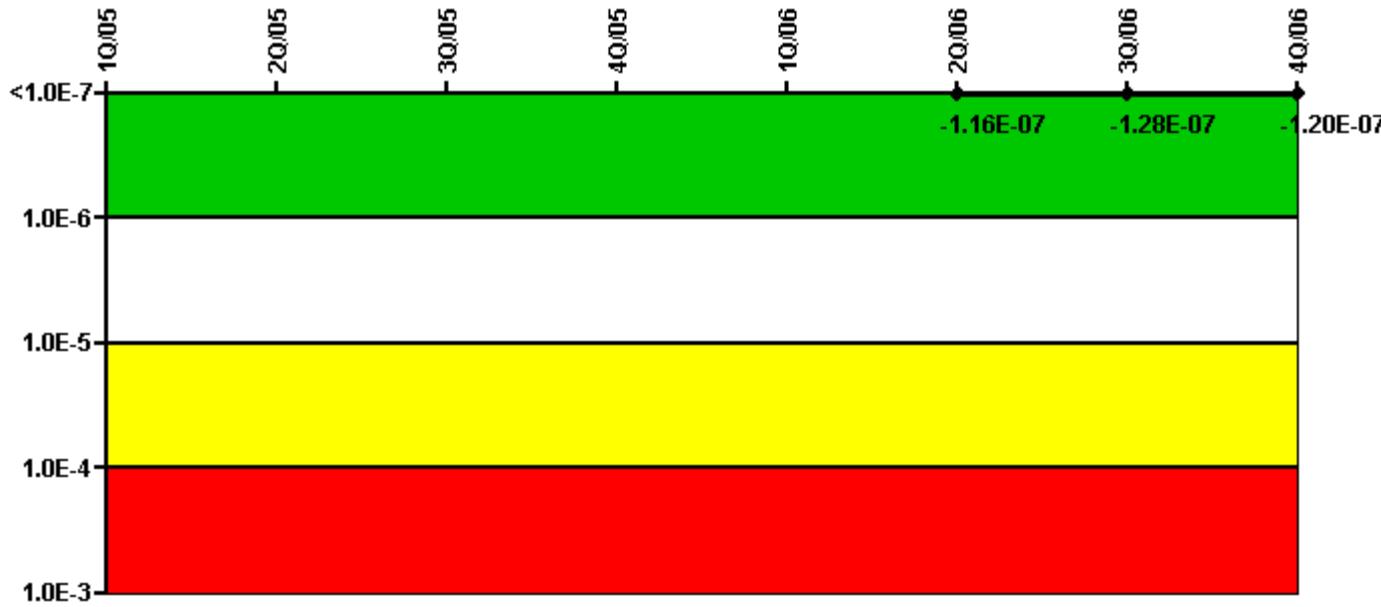
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						-4.20E-08	-2.30E-08	-3.00E-08
URI (ΔCDF)						-8.90E-08	-9.30E-08	-8.10E-08
PLE						NO	NO	NO
Indicator value						-1.31E-07	-1.16E-07	-1.11E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



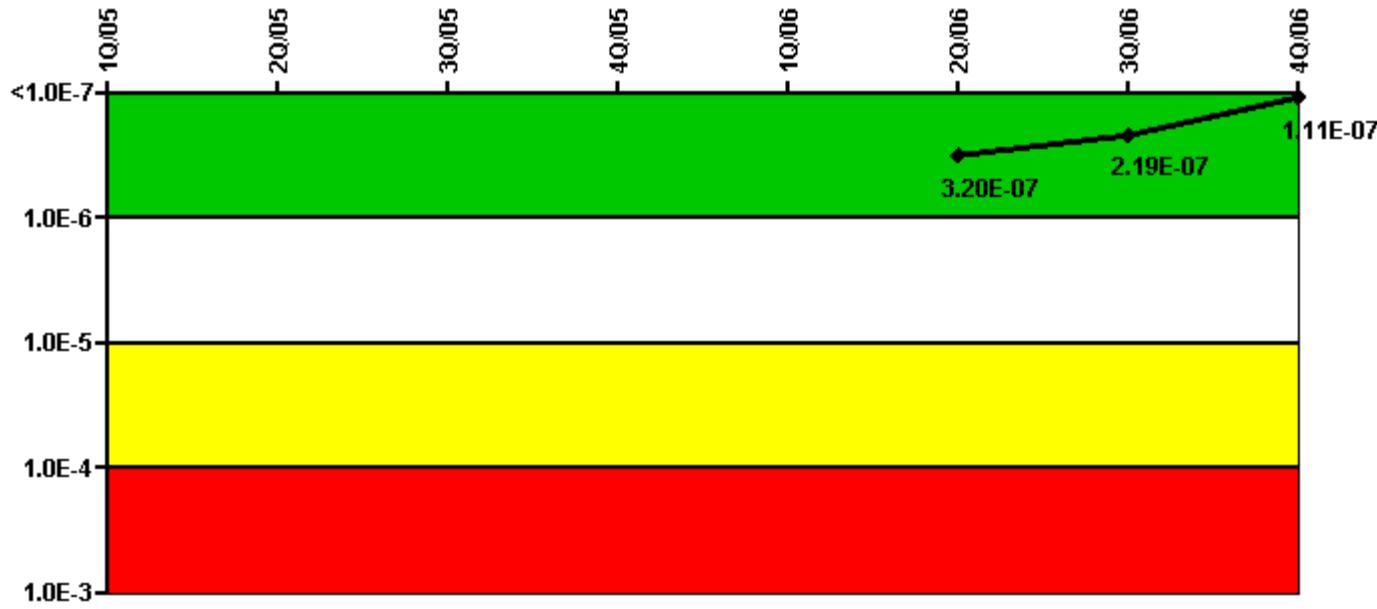
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						4.20E-09	1.70E-09	-2.40E-10
URI (ΔCDF)						-1.20E-07	-1.30E-07	-1.20E-07
PLE						NO	NO	NO
Indicator value						-1.16E-07	-1.28E-07	-1.20E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



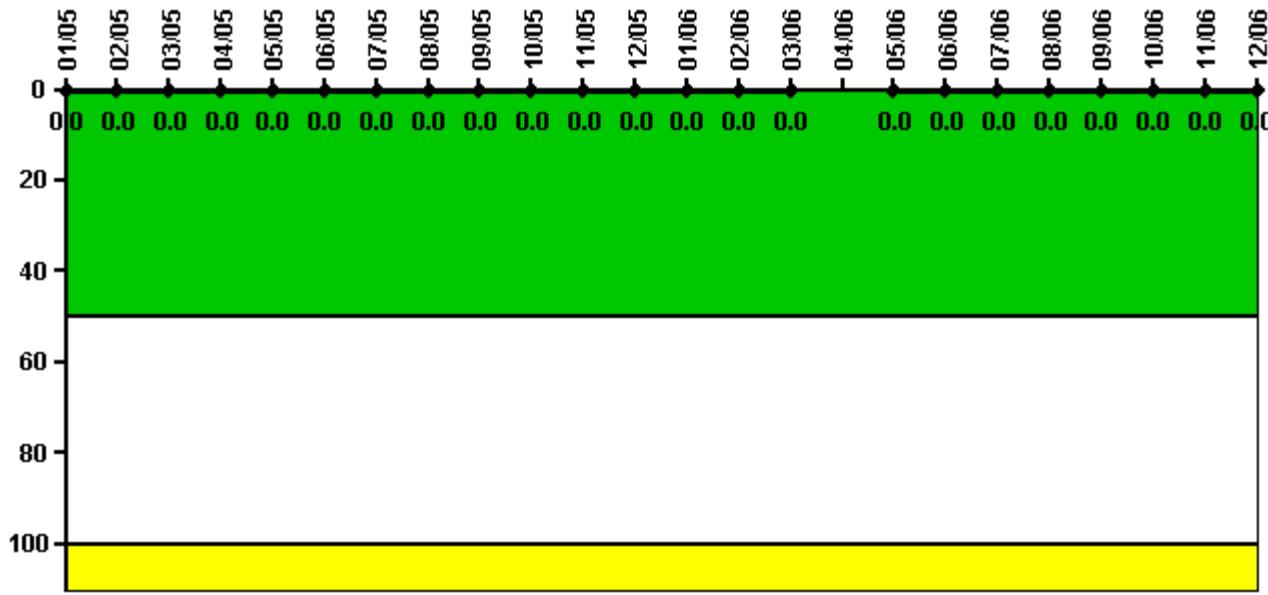
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						1.60E-07	2.90E-08	-5.90E-08
URI (ΔCDF)						1.60E-07	1.90E-07	1.70E-07
PLE						NO	NO	NO
Indicator value						3.20E-07	2.19E-07	1.11E-07

Licensee Comments: none

Reactor Coolant System Activity



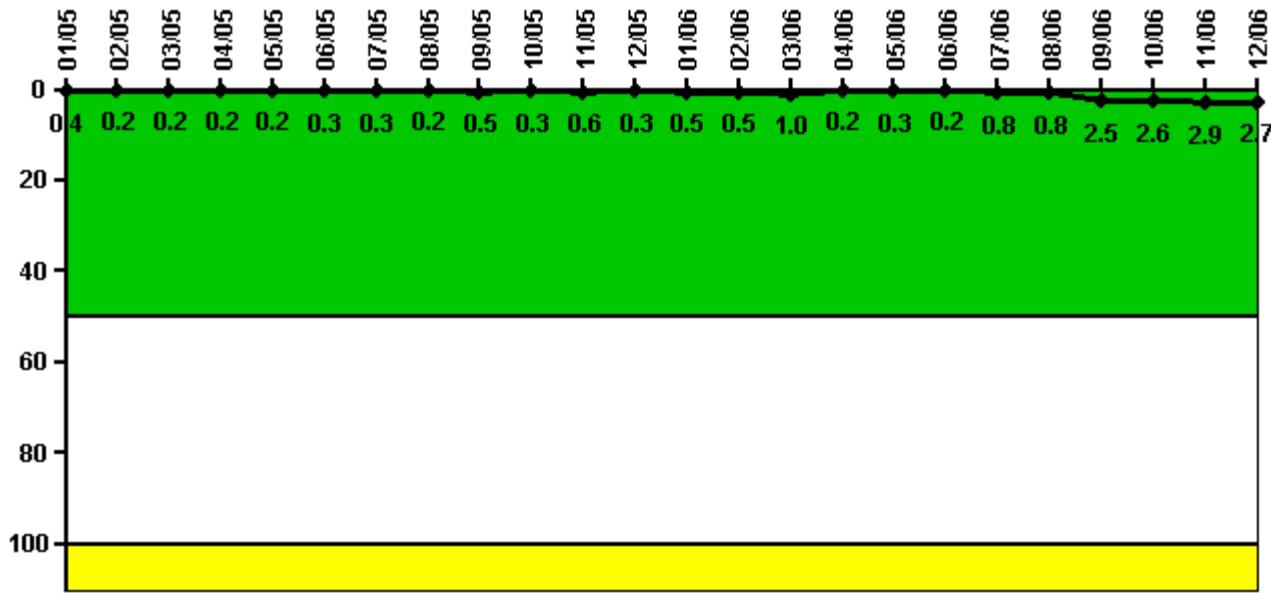
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
Maximum activity	0.000150	0.000378	0.000345	0.000176	0.000198	0.000190	0.000198	0.000202	0.000204	0.000213	0.000224	0.000222
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum activity	0.000286	0.000292	0.000294	N/A	0.000121	0.000127	0.000132	0.000142	0.000168	0.000191	0.000152	0.000150
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	N/A	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

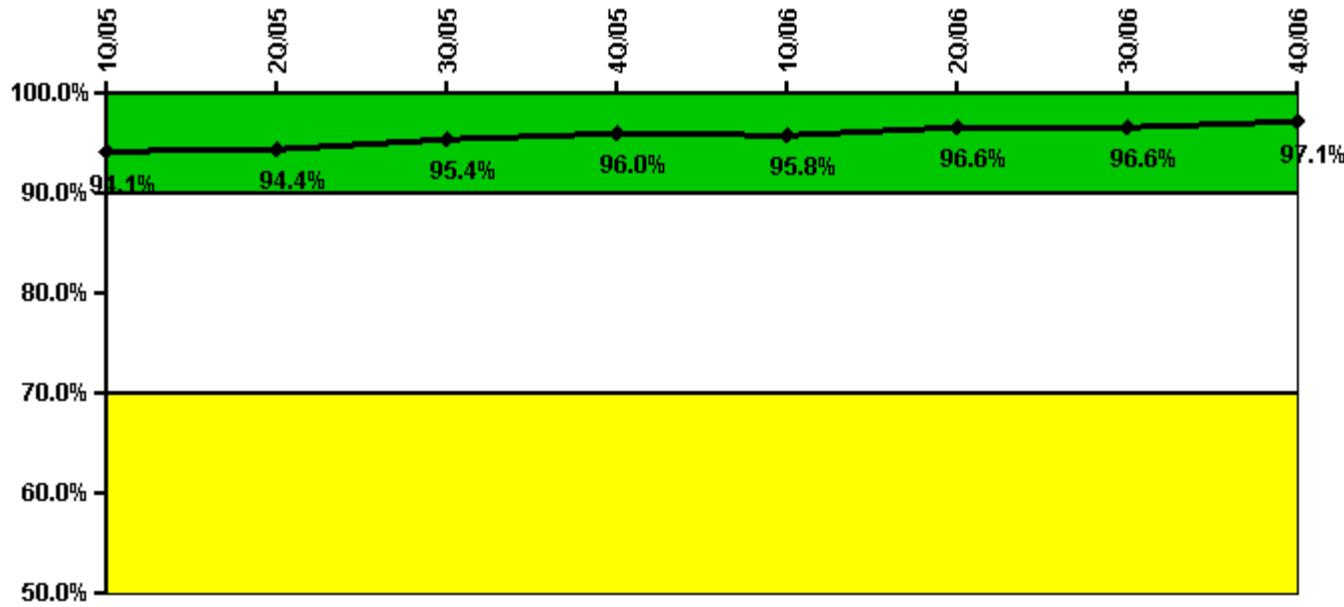
Notes

Reactor Coolant System Leakage	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
Maximum leakage	0.039	0.020	0.019	0.020	0.022	0.034	0.029	0.023	0.053	0.031	0.070	0.036
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.4	0.2	0.2	0.2	0.2	0.3	0.3	0.2	0.5	0.3	0.6	0.3
Reactor Coolant System Leakage	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum leakage	0.057	0.053	0.114	0.021	0.033	0.022	0.086	0.090	0.280	0.289	0.323	0.299
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.5	0.5	1.0	0.2	0.3	0.2	0.8	0.8	2.5	2.6	2.9	2.7

Licensee Comments:

12/06: On December 14, 2006, a valve packing gland failed during adjustment resulting in an estimated 6 gpm reactor coolant leak lasting approximately 3 hours until isolated. The leak rate was determined using plant abnormal operating procedures (AOP). The AOP is used to provide gross estimation of the leak rate and its use was appropriate during this interim condition. It is not intended to satisfy the approved technical specifications methodology. All technical specification requirements were satisfied and remained within required values. In accordance with FAQ 251 this leak rate is not counted against the performance indicator because the increased leak rate was not determined using technical specification methodology. This information is included for informational purposes only.

Drill/Exercise Performance



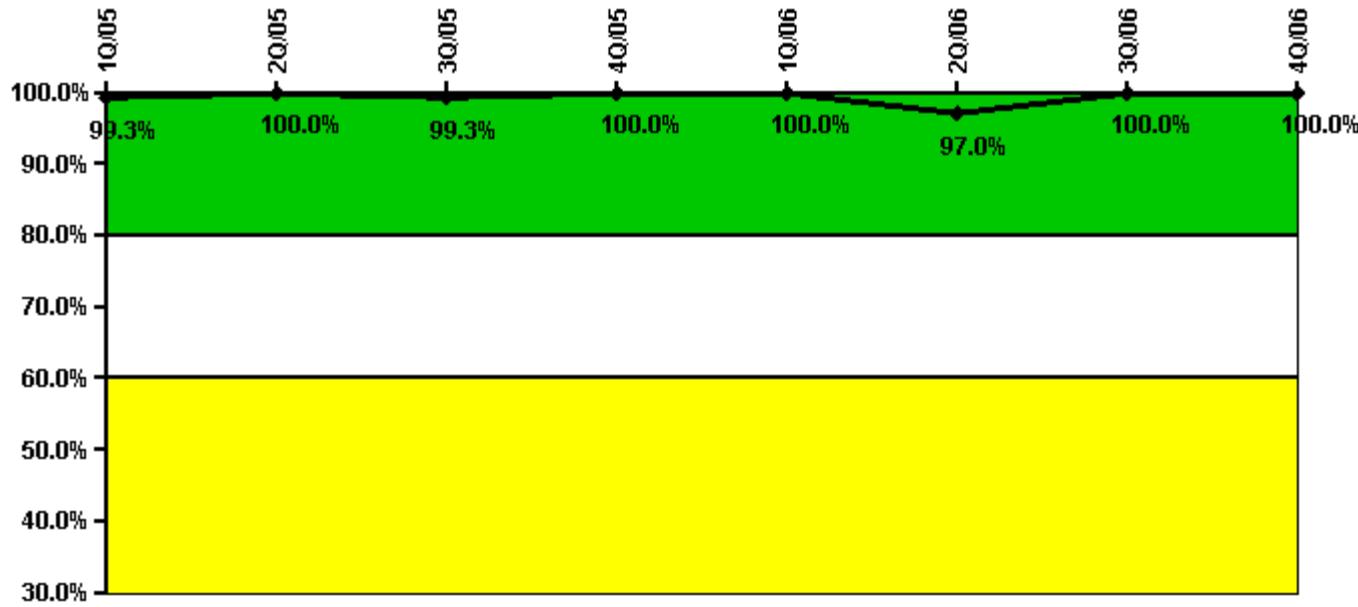
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful opportunities	89.0	87.0	108.0	58.0	78.0	84.0	57.0	130.0
Total opportunities	93.0	91.0	112.0	59.0	82.0	85.0	60.0	130.0
Indicator value	94.1%	94.4%	95.4%	96.0%	95.8%	96.6%	96.6%	97.1%

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Participating Key personnel	151.0	146.0	147.0	144.0	147.0	159.0	157.0	157.0
Total Key personnel	152.0	146.0	148.0	144.0	147.0	164.0	157.0	157.0
Indicator value	99.3%	100.0%	99.3%	100.0%	100.0%	97.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



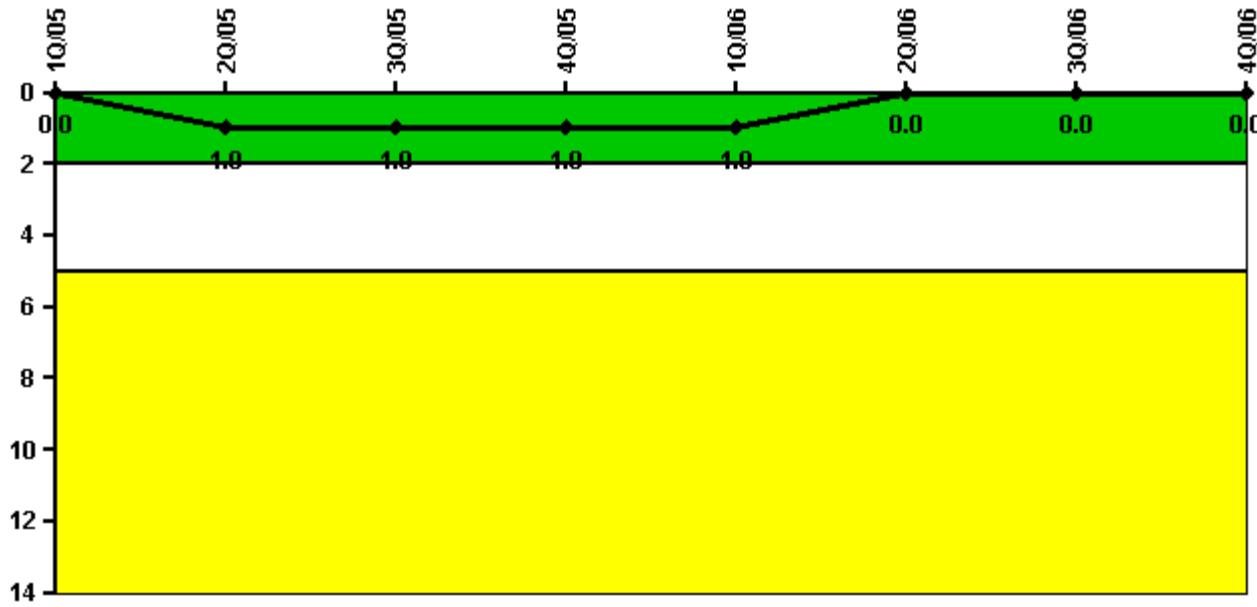
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful siren-tests	209	209	210	207	210	208	210	206
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	99.4%	99.5%	99.8%	99.4%	99.5%	99.4%	99.4%	99.3%

Licensee Comments: none

Occupational Exposure Control Effectiveness

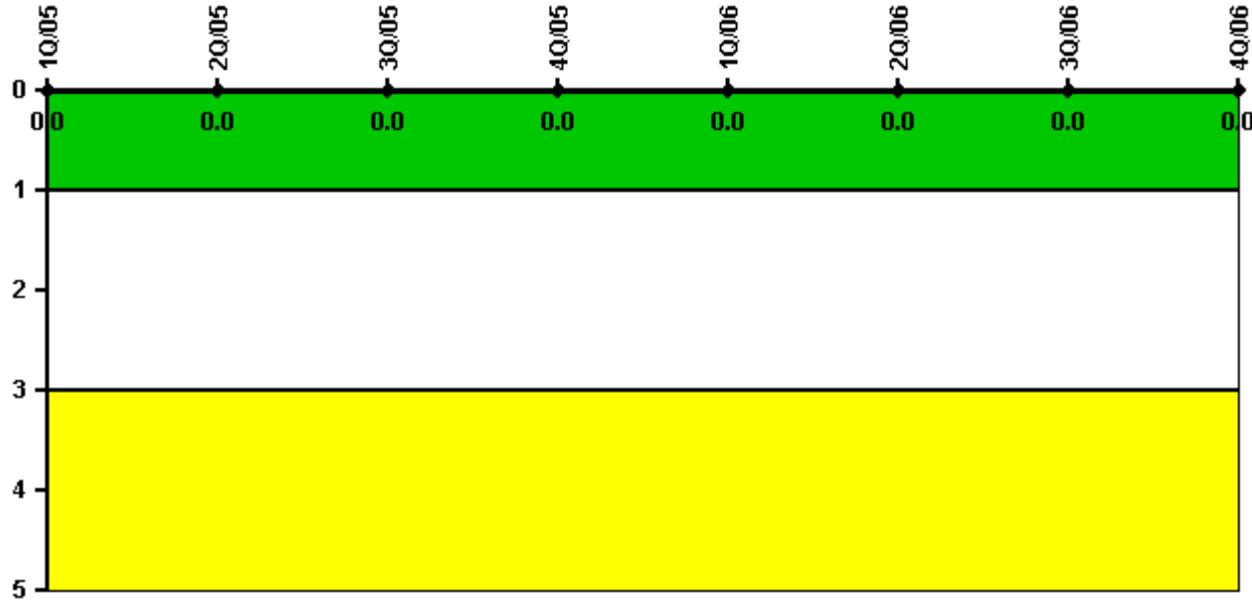


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
High radiation area occurrences	0	1	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	1	1	1	1	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

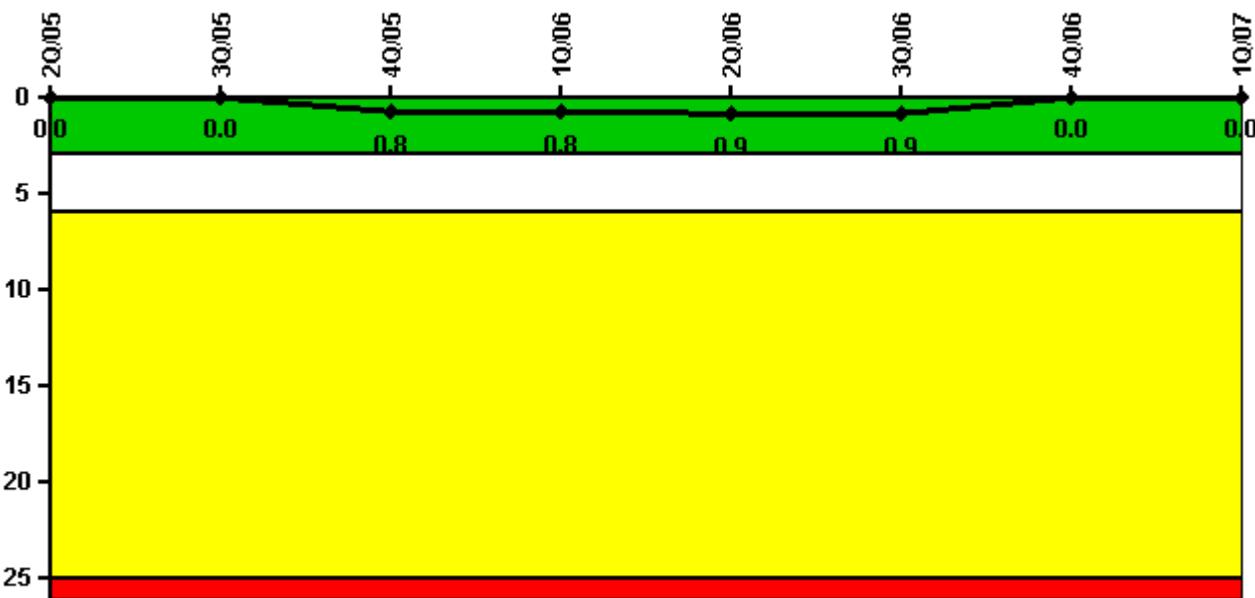
[Physical Protection](#) information not publicly available.

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1Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



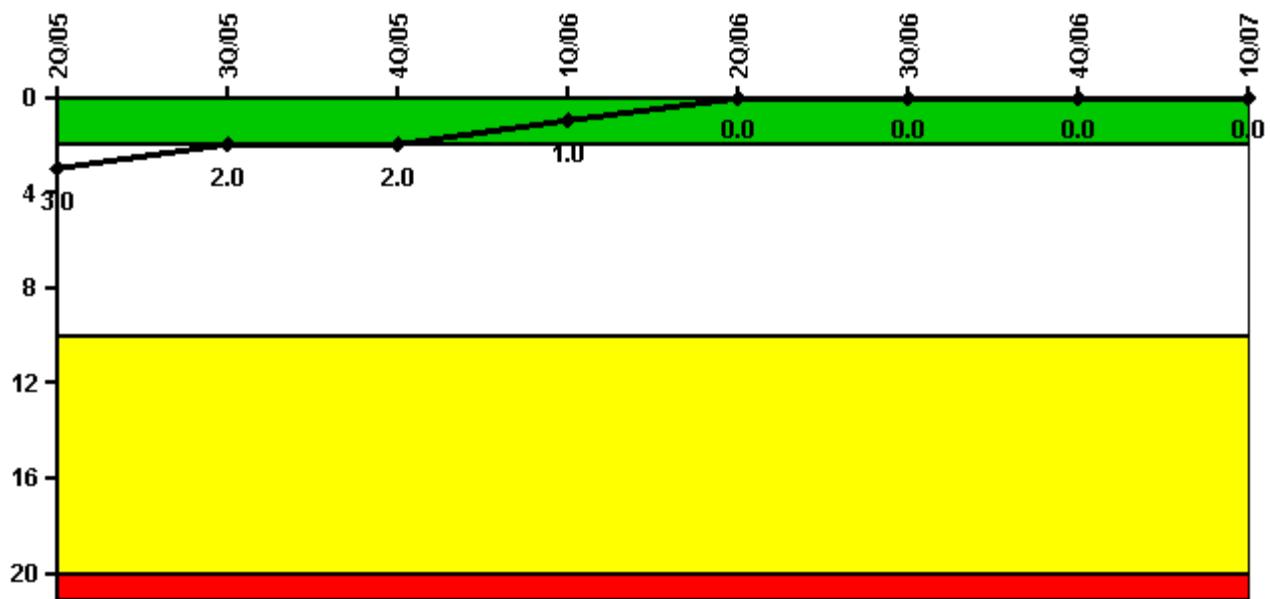
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2183.0	2179.0	2147.6	1992.0	1331.7	2208.0	2209.0	2159.0
Indicator value	0	0	0.8	0.8	0.9	0.9	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



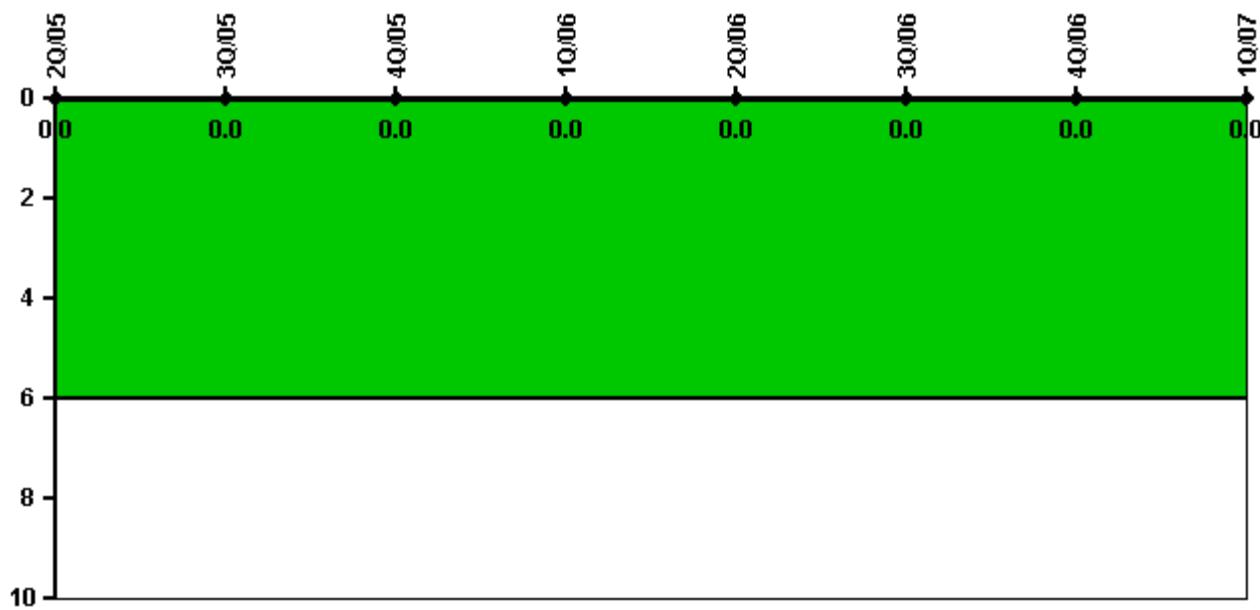
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Scrams	0	0	0	0	0	0	0	0
Indicator value	3.0	2.0	2.0	1.0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



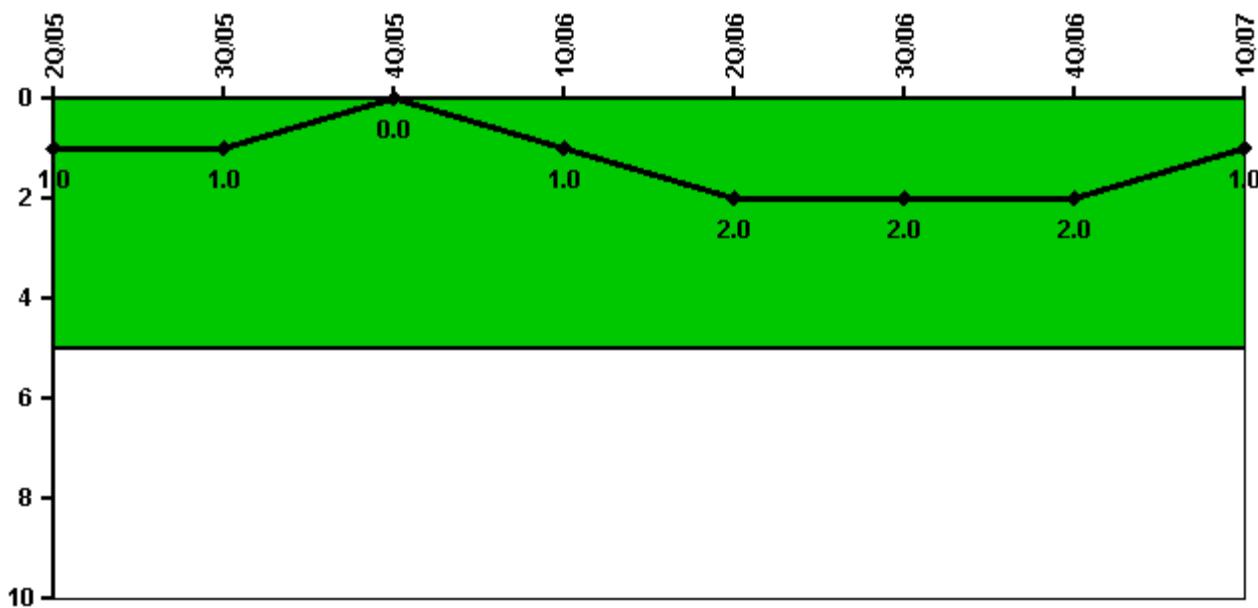
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2183.0	2179.0	2147.6	1992.0	1331.7	2208.0	2209.0	2159.0
Indicator value	0							

Licensee Comments: none

Safety System Functional Failures (PWR)



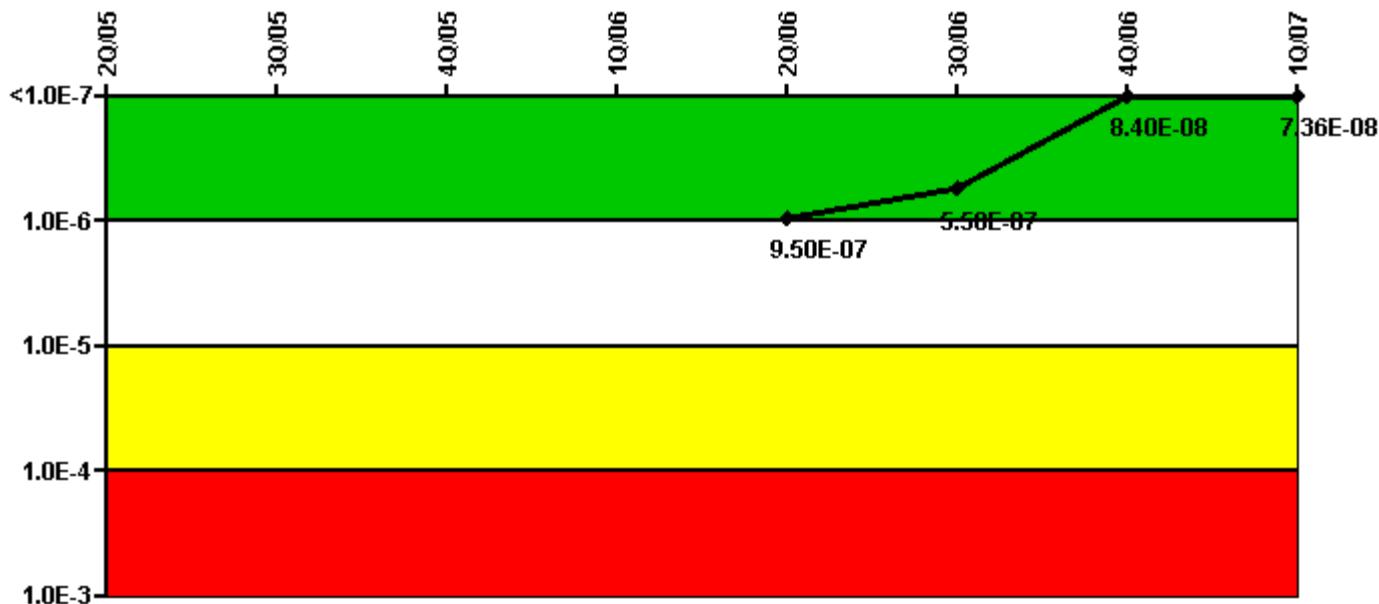
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Safety System Functional Failures	0	0	0	1	1	0	0	0
Indicator value	1	1	0	1	2	2	2	1

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



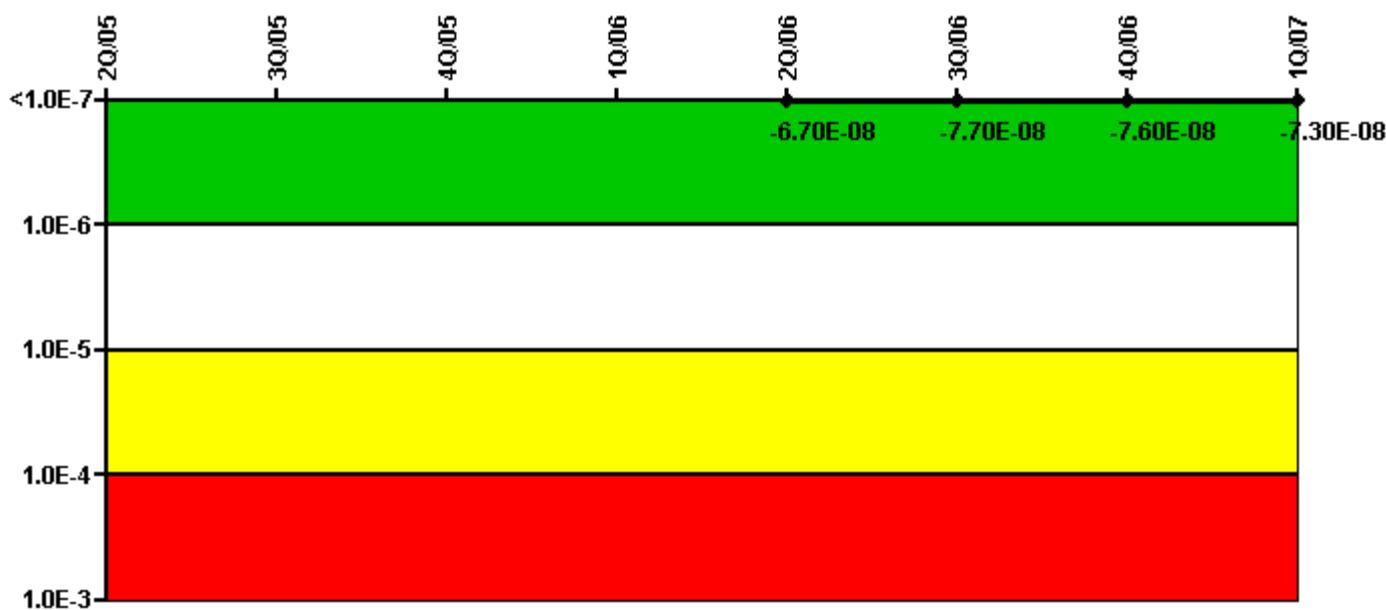
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (Δ CDF)					1.50E-07	9.80E-08	1.20E-08	1.60E-09
URI (Δ CDF)					8.00E-07	4.60E-07	7.20E-08	7.20E-08
PLE					NO	NO	NO	NO
Indicator value					9.50E-07	5.58E-07	8.40E-08	7.36E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



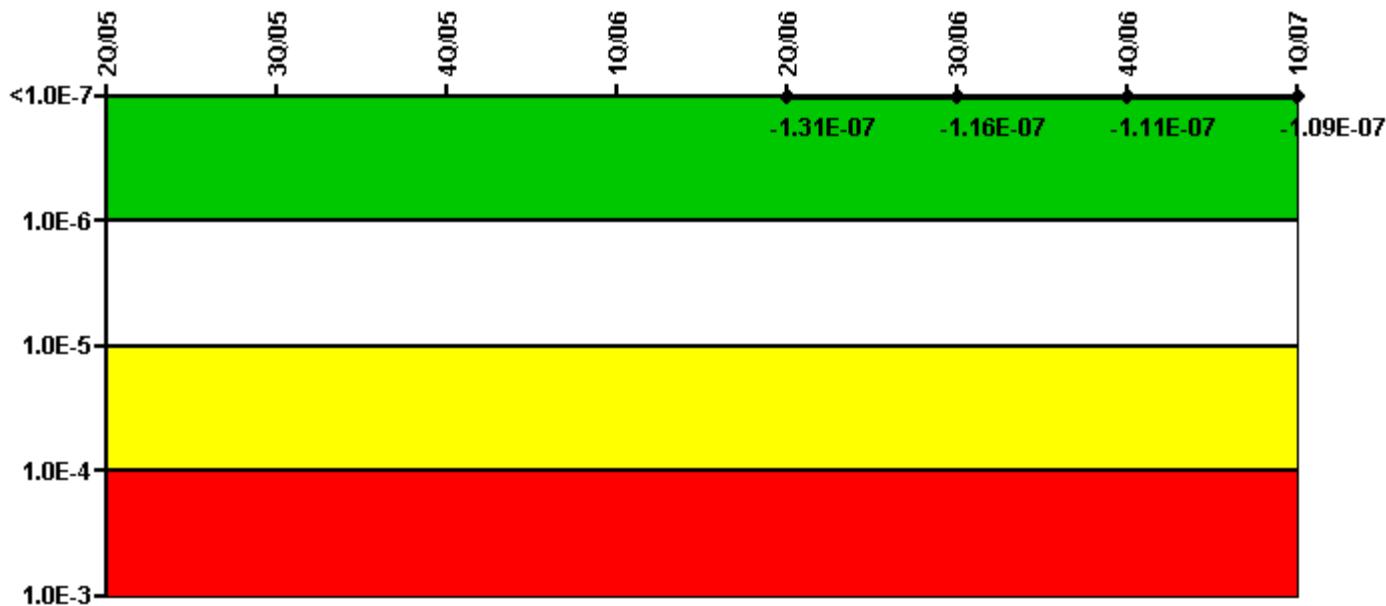
Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (Δ CDF)					-2.20E-08	-2.90E-08	-3.40E-08	-3.10E-08
URI (Δ CDF)					-4.50E-08	-4.80E-08	-4.20E-08	-4.20E-08
PLE					NO	NO	NO	NO
Indicator value					-6.70E-08	-7.70E-08	-7.60E-08	-7.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



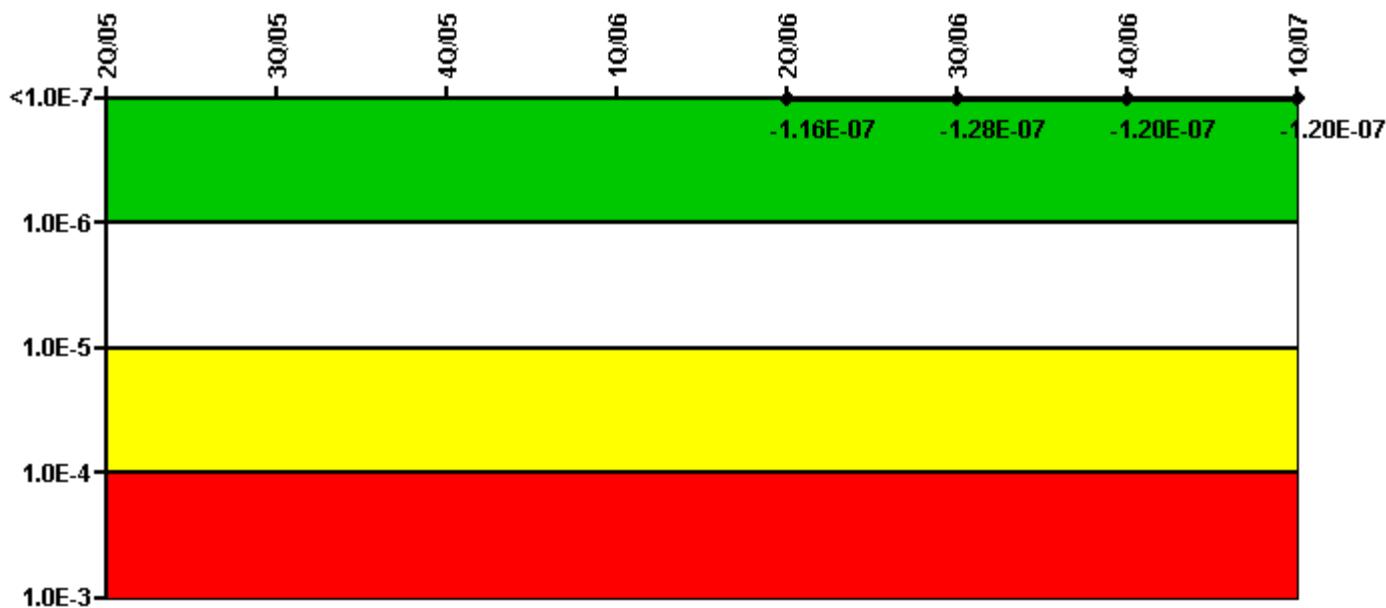
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (Δ CDF)					-4.20E-08	-2.30E-08	-3.00E-08	-3.00E-08
URI (Δ CDF)					-8.90E-08	-9.30E-08	-8.10E-08	-7.90E-08
PLE					NO	NO	NO	NO
Indicator value					-1.31E-07	-1.16E-07	-1.11E-07	-1.09E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



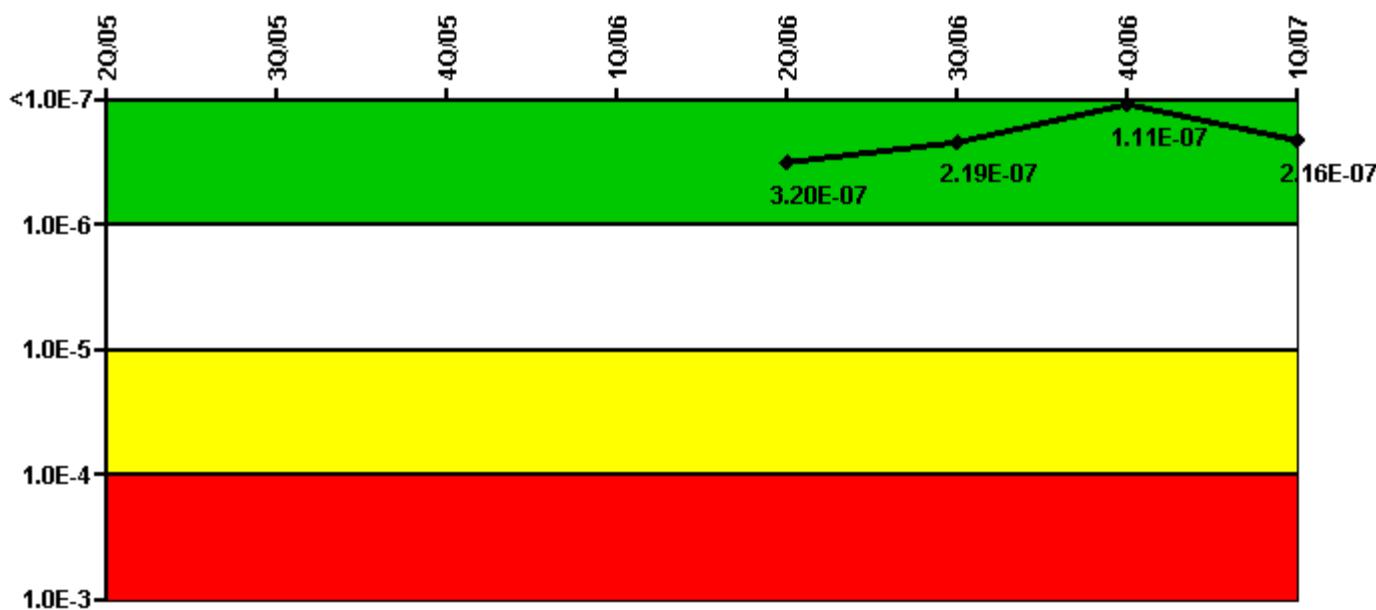
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (Δ CDF)					4.20E-09	1.70E-09	-2.40E-10	-2.60E-10
URI (Δ CDF)					-1.20E-07	-1.30E-07	-1.20E-07	-1.20E-07
PLE					NO	NO	NO	NO
Indicator value					-1.16E-07	-1.28E-07	-1.20E-07	-1.20E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



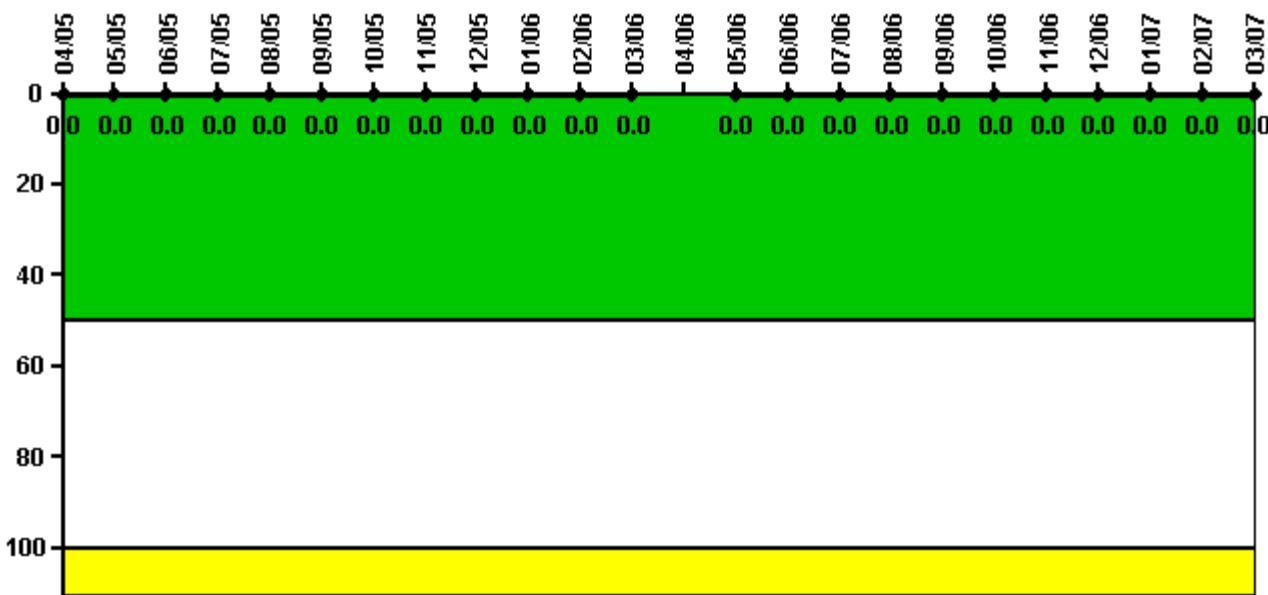
Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (Δ CDF)					1.60E-07	2.90E-08	-5.90E-08	4.60E-08
URI (Δ CDF)					1.60E-07	1.90E-07	1.70E-07	1.70E-07
PLE					NO	NO	NO	NO
Indicator value					3.20E-07	2.19E-07	1.11E-07	2.16E-07

Licensee Comments: none

Reactor Coolant System Activity



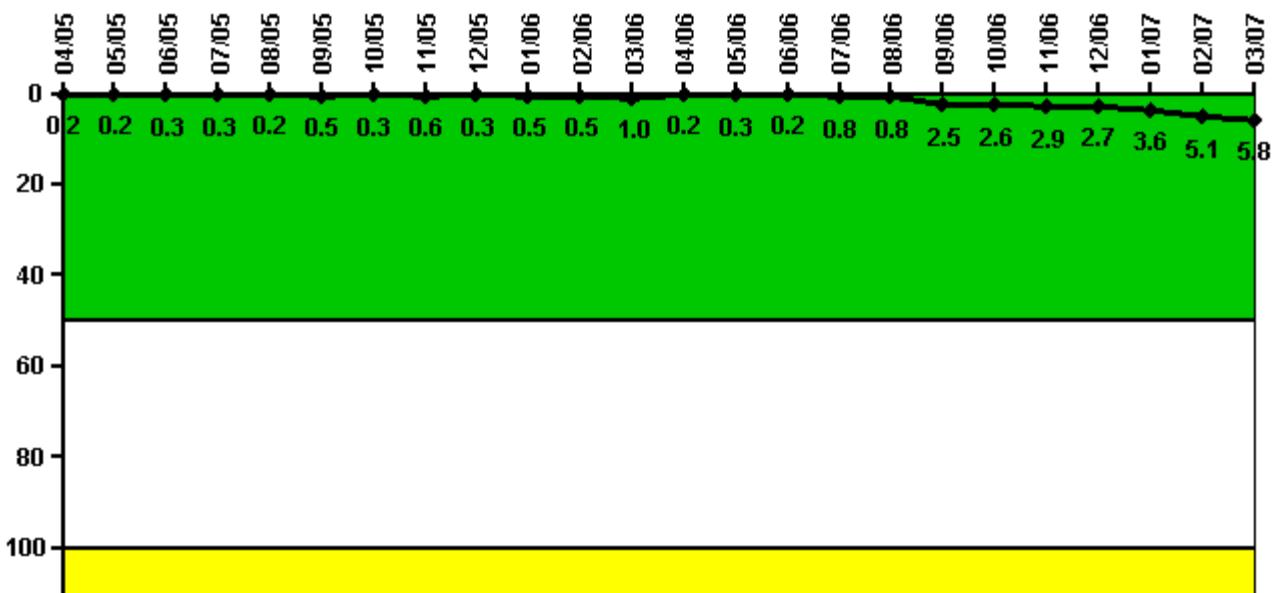
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum activity	0.000176	0.000198	0.000190	0.000198	0.000202	0.000204	0.000213	0.000224	0.000222	0.000286	0.000292	0.000294
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum activity	N/A	0.000121	0.000127	0.000132	0.000142	0.000168	0.000191	0.000152	0.000150	0.000148	0.000154	0.000177
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



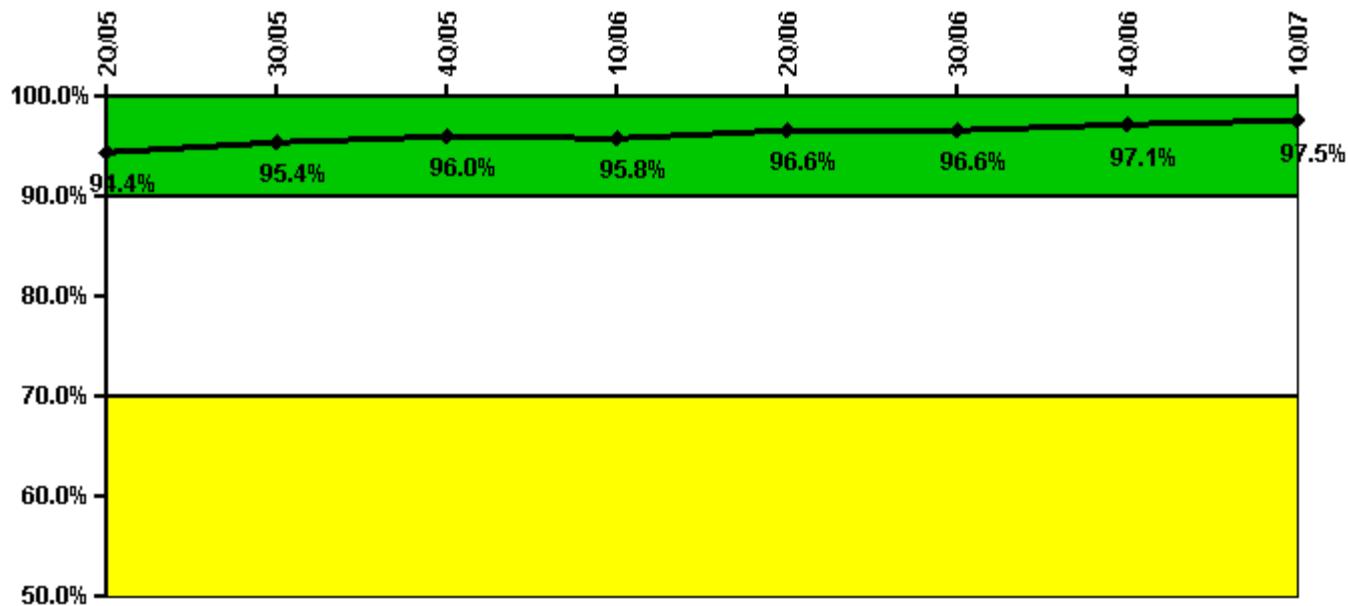
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum leakage	0.020	0.022	0.034	0.029	0.023	0.053	0.031	0.070	0.036	0.057	0.053	0.114
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.2	0.2	0.3	0.3	0.2	0.5	0.3	0.6	0.3	0.5	0.5	1.0
Reactor Coolant System Leakage	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum leakage	0.021	0.033	0.022	0.086	0.090	0.280	0.289	0.323	0.299	0.391	0.560	0.638
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.2	0.3	0.2	0.8	0.8	2.5	2.6	2.9	2.7	3.6	5.1	5.8

Licensee Comments: none

Drill/Exercise Performance



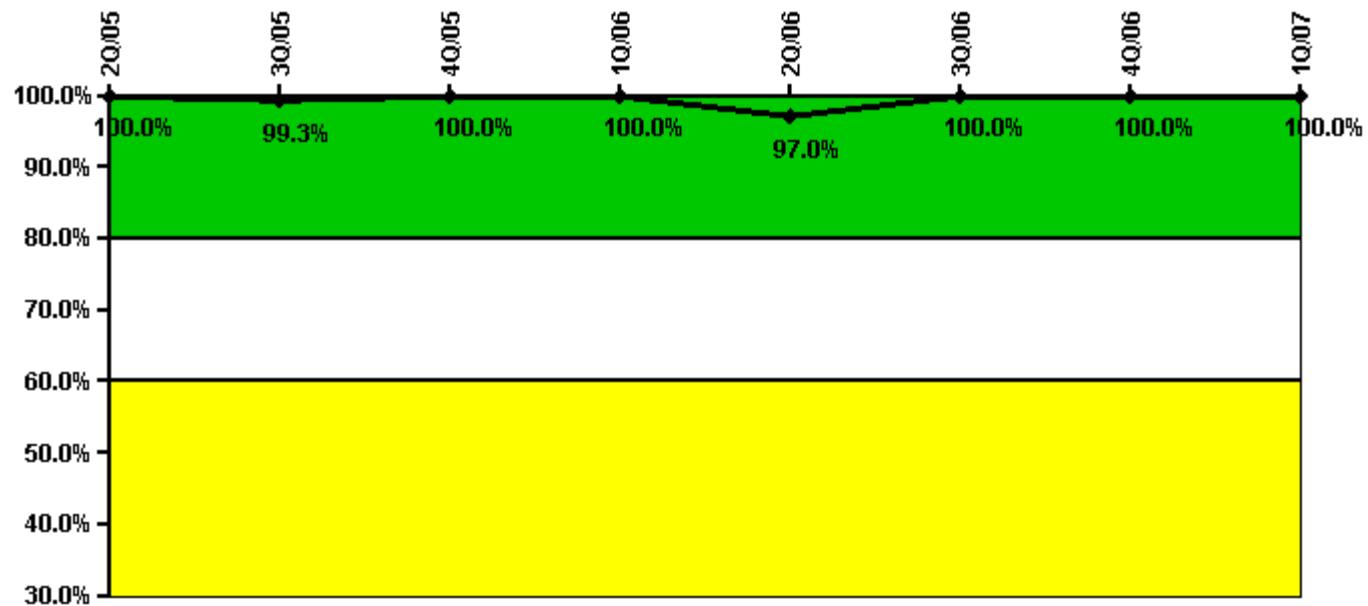
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful opportunities	87.0	108.0	58.0	78.0	84.0	57.0	130.0	113.0
Total opportunities	91.0	112.0	59.0	82.0	85.0	60.0	130.0	114.0
Indicator value	94.4%	95.4%	96.0%	95.8%	96.6%	96.6%	97.1%	97.5%

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Participating Key personnel	146.0	147.0	144.0	147.0	159.0	157.0	157.0	161.0
Total Key personnel	146.0	148.0	144.0	147.0	164.0	157.0	157.0	161.0
Indicator value	100.0%	99.3%	100.0%	100.0%	97.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



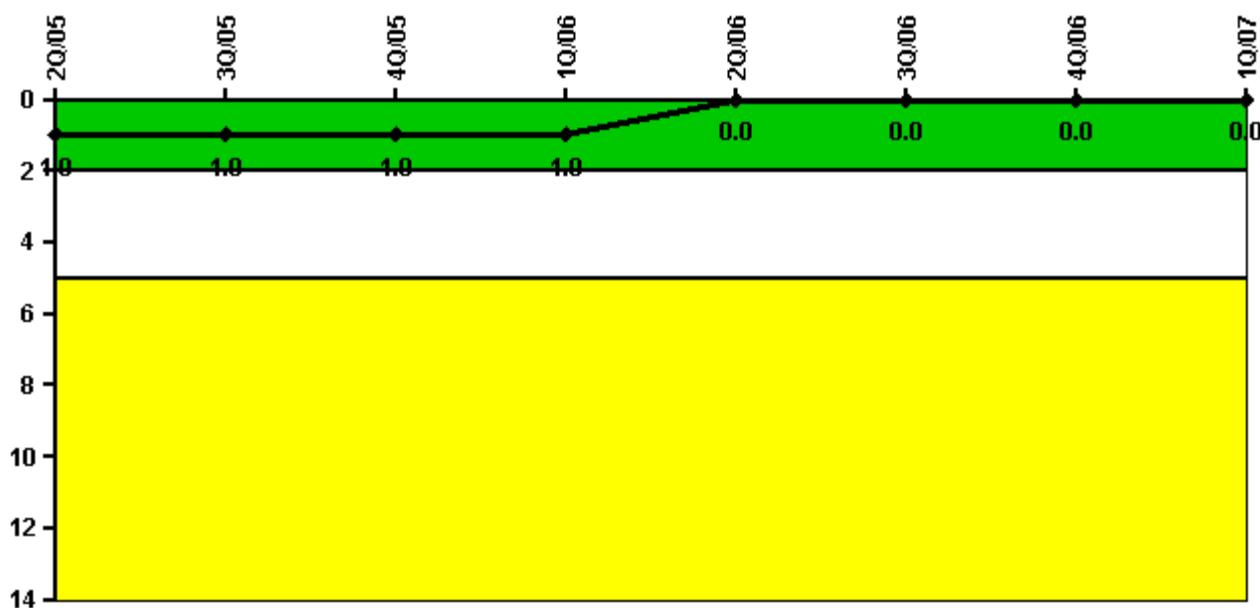
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful siren-tests	209	210	207	210	208	210	206	196
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	99.5%	99.8%	99.4%	99.5%	99.4%	99.4%	99.3%	97.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



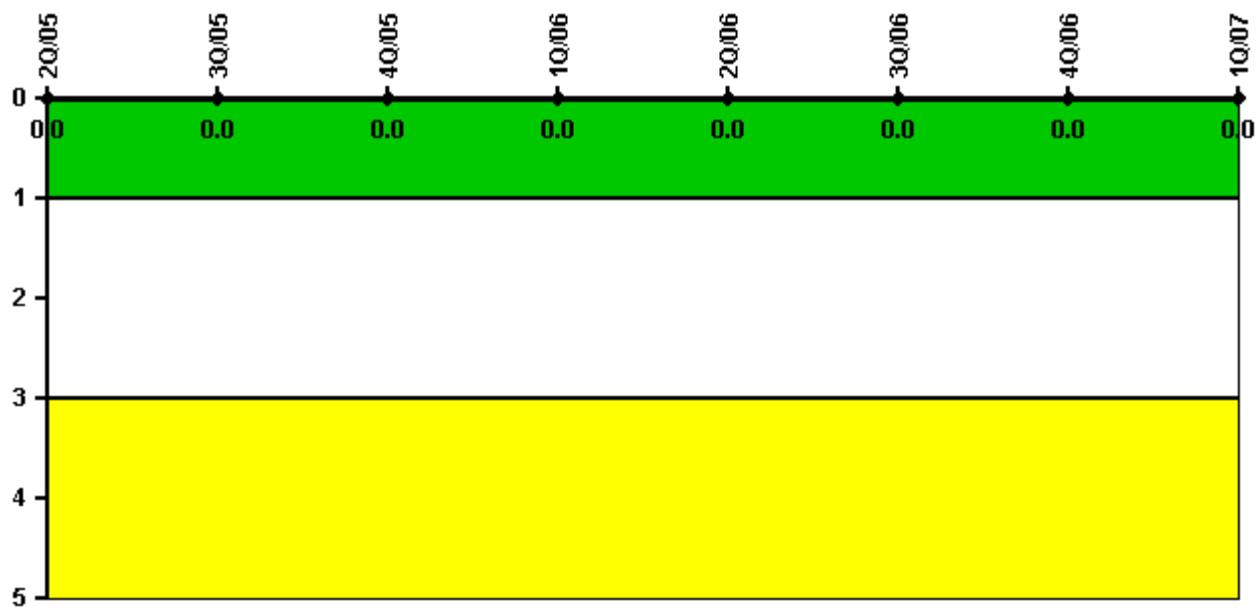
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
High radiation area occurrences	1	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	1	1	1	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

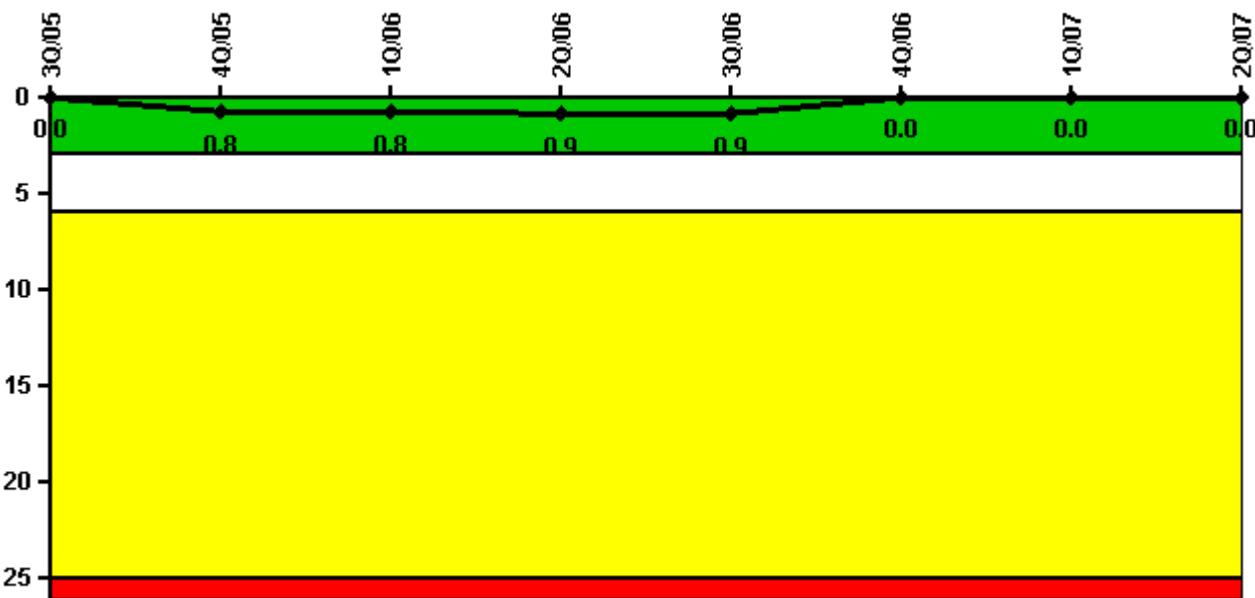
[Physical Protection](#) information not publicly available.

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2Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



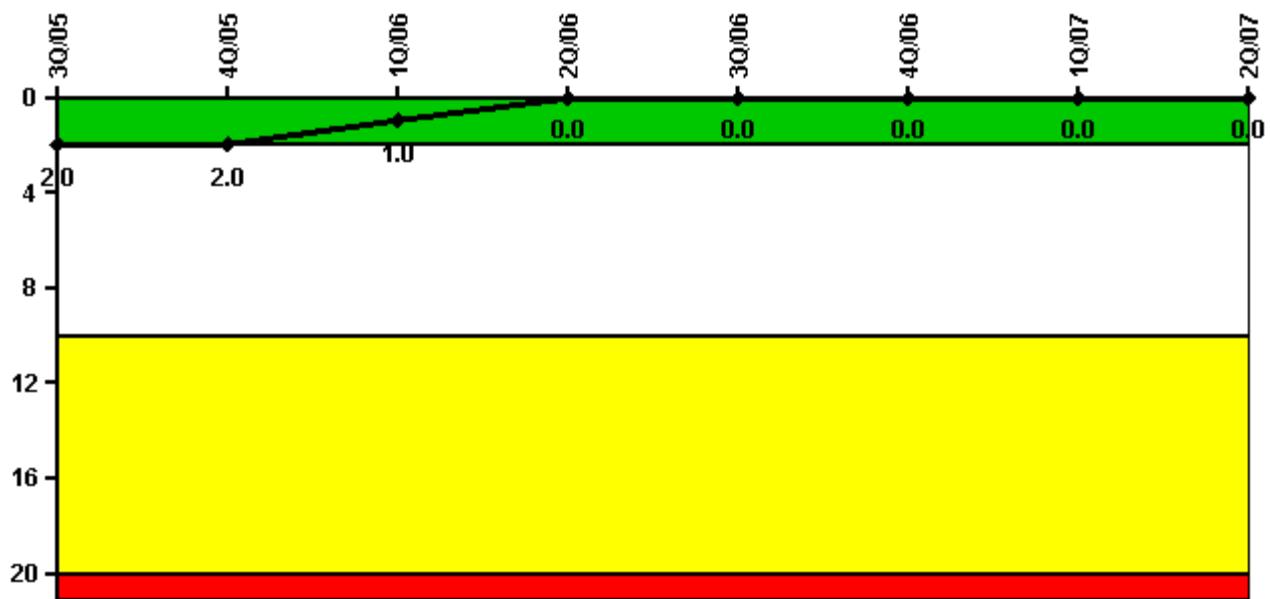
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2179.0	2147.6	1992.0	1331.7	2208.0	2209.0	2159.0	2184.0
Indicator value	0	0.8	0.8	0.9	0.9	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



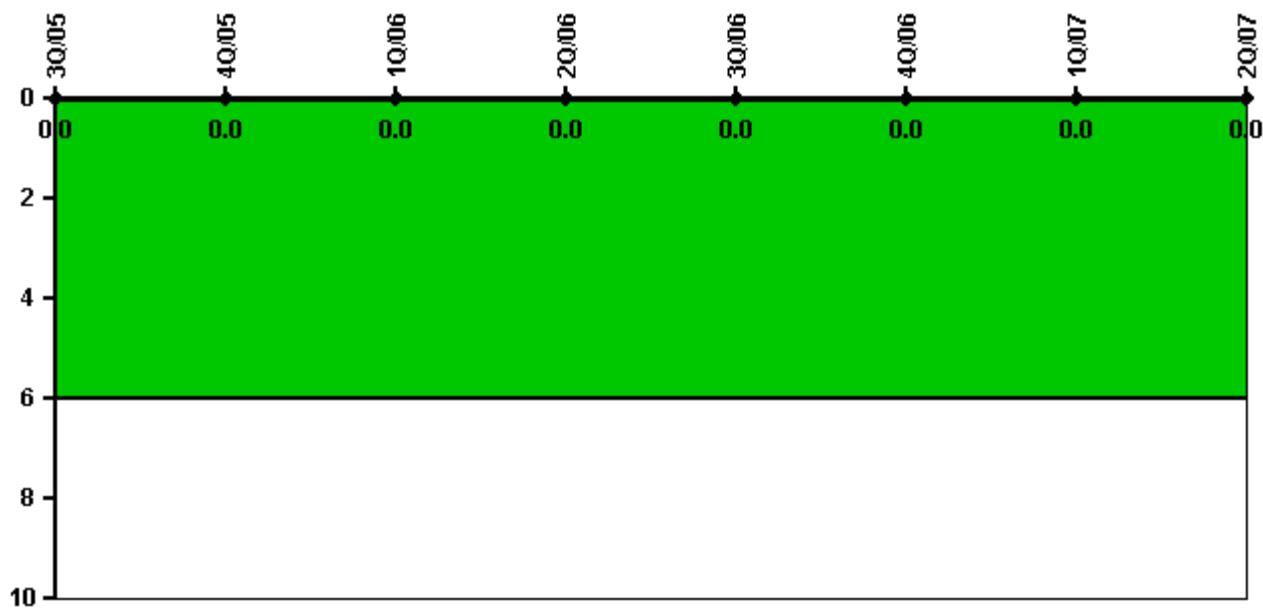
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Scrams	0	0	0	0	0	0	0	0
Indicator value	2.0	2.0	1.0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



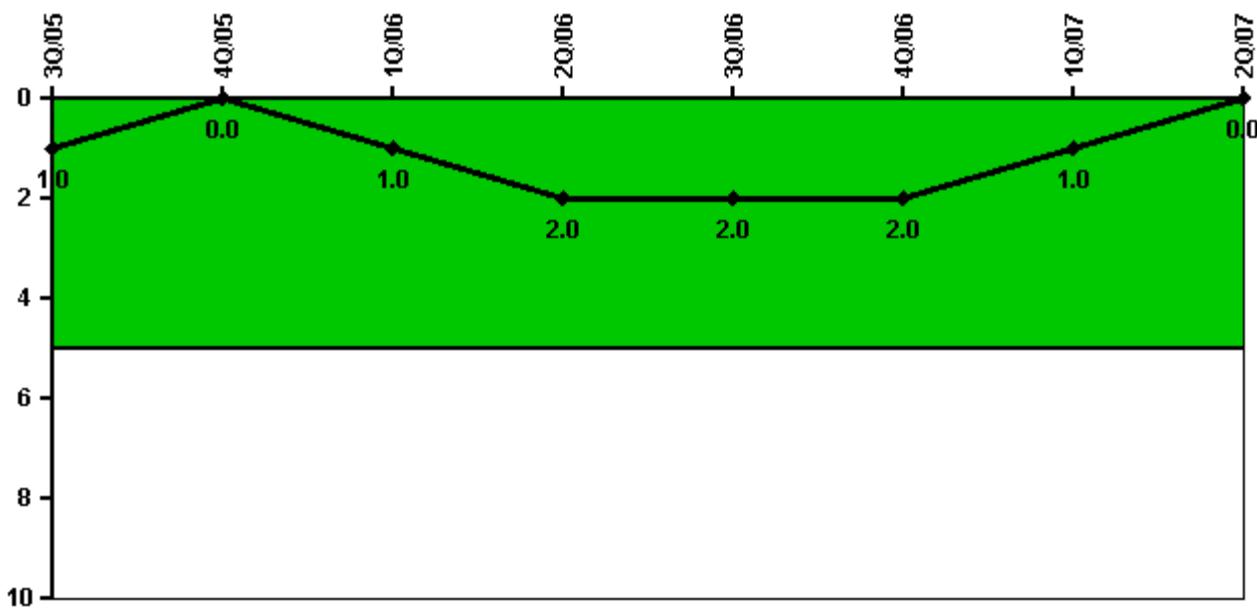
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2179.0	2147.6	1992.0	1331.7	2208.0	2209.0	2159.0	2184.0
Indicator value	0							

Licensee Comments: none

Safety System Functional Failures (PWR)



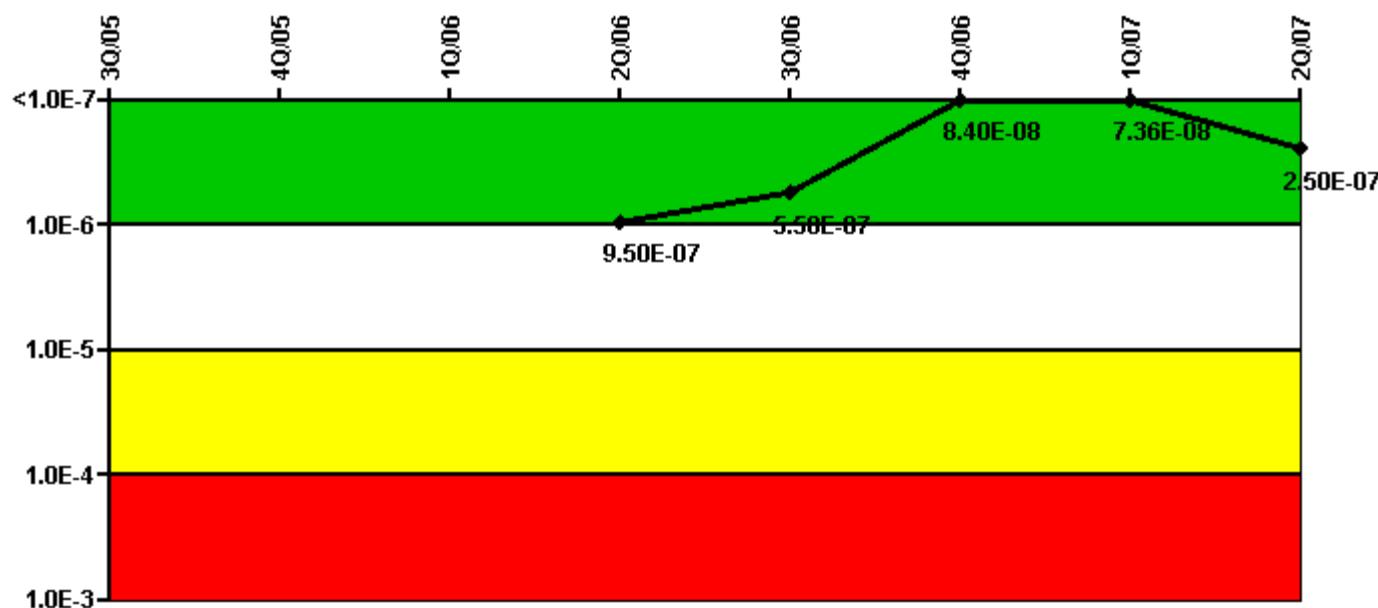
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Safety System Functional Failures	0	0	1	1	0	0	0	0
Indicator value	1	0	1	2	2	2	1	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



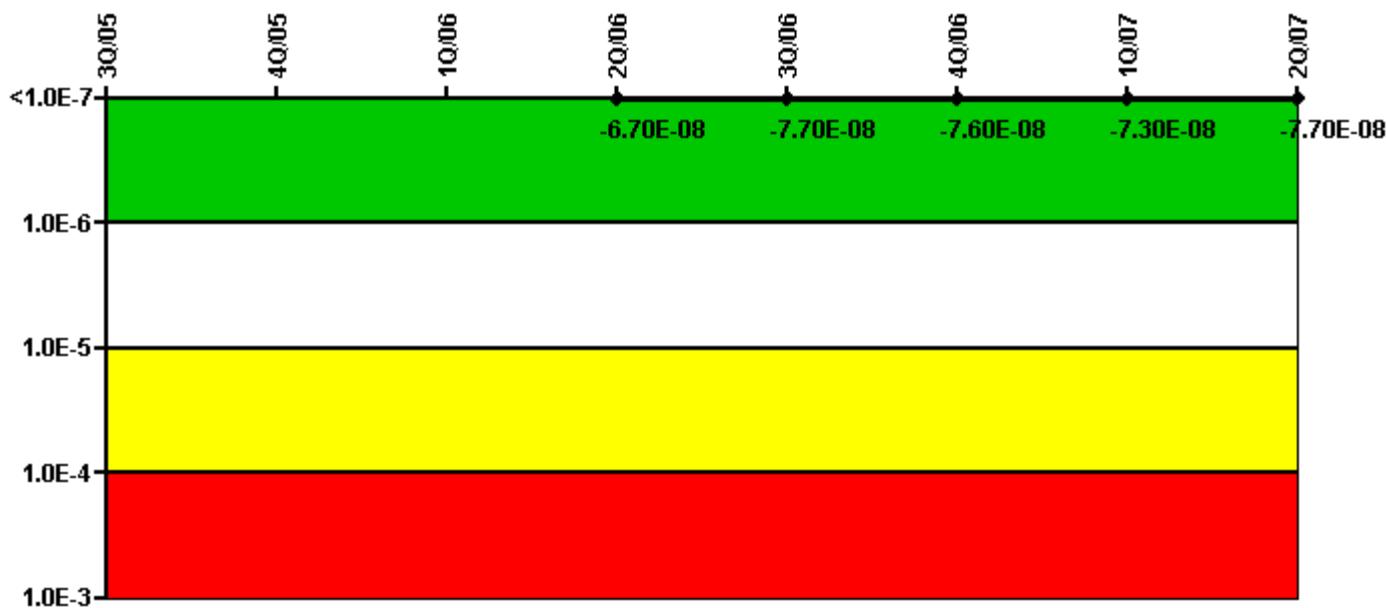
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ACDF)				1.50E-07	9.80E-08	1.20E-08	1.60E-09	1.00E-08
URI (ACDF)				8.00E-07	4.60E-07	7.20E-08	7.20E-08	2.40E-07
PLE				NO	NO	NO	NO	NO
Indicator value				9.50E-07	5.58E-07	8.40E-08	7.36E-08	2.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



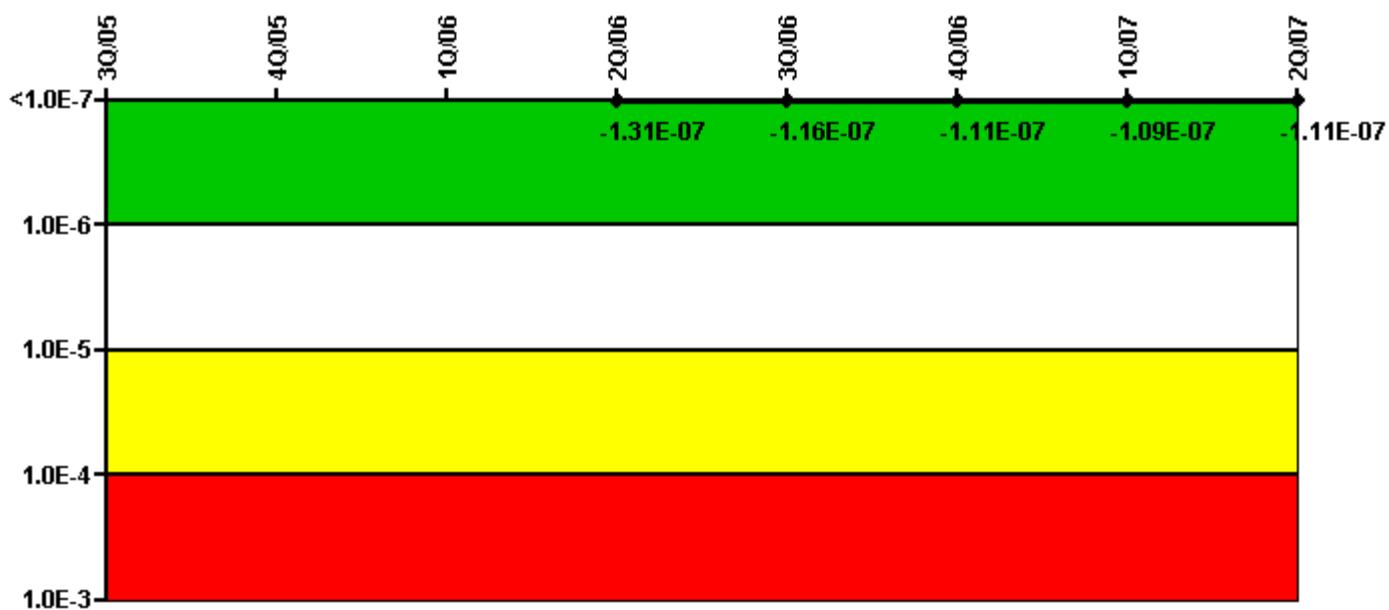
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (Δ CDF)				-2.20E-08	-2.90E-08	-3.40E-08	-3.10E-08	-3.50E-08
URI (Δ CDF)				-4.50E-08	-4.80E-08	-4.20E-08	-4.20E-08	-4.20E-08
PLE				NO	NO	NO	NO	NO
Indicator value				-6.70E-08	-7.70E-08	-7.60E-08	-7.30E-08	-7.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



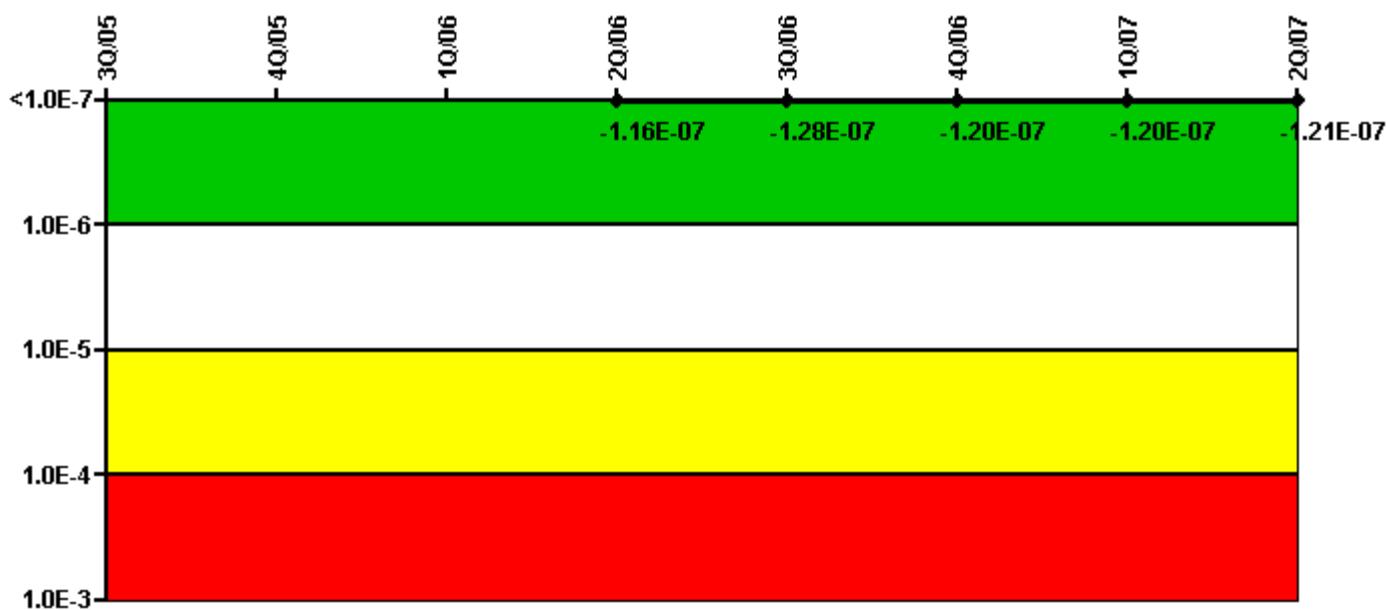
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (Δ CDF)				-4.20E-08	-2.30E-08	-3.00E-08	-3.00E-08	-3.40E-08
URI (Δ CDF)				-8.90E-08	-9.30E-08	-8.10E-08	-7.90E-08	-7.70E-08
PLE				NO	NO	NO	NO	NO
Indicator value				-1.31E-07	-1.16E-07	-1.11E-07	-1.09E-07	-1.11E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



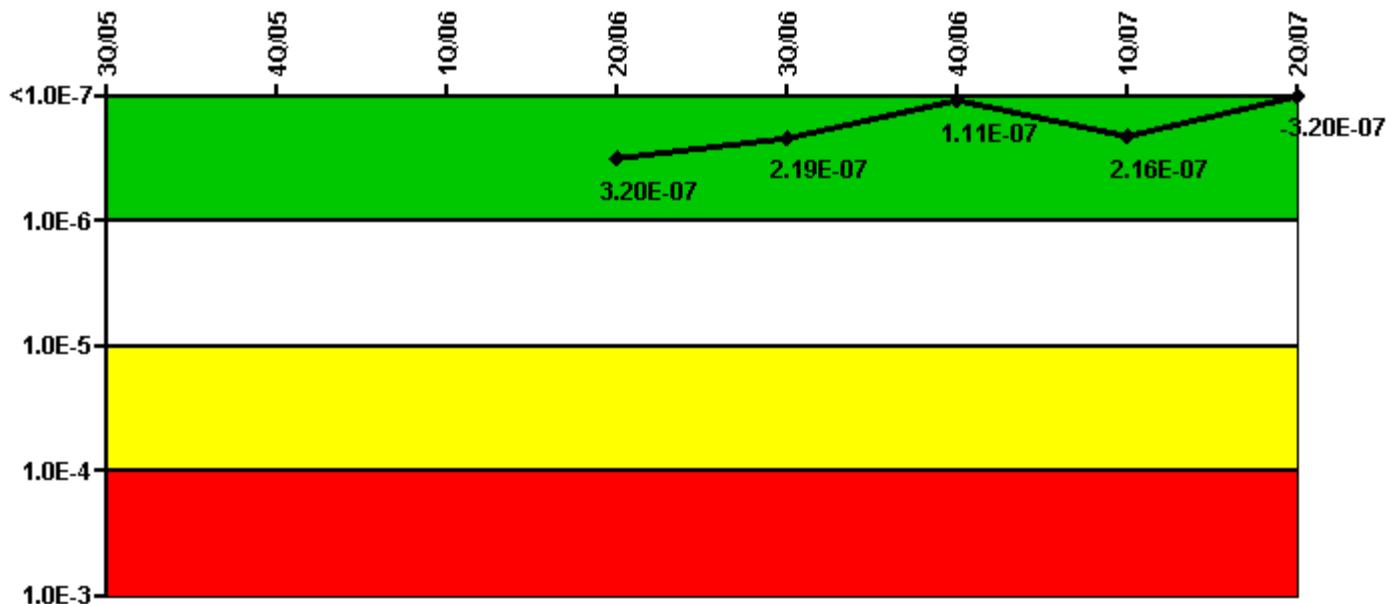
Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (Δ CDF)				$4.20E-09$	$1.70E-09$	$-2.40E-10$	$-2.60E-10$	$-8.40E-10$
URI (Δ CDF)				$-1.20E-07$	$-1.30E-07$	$-1.20E-07$	$-1.20E-07$	$-1.20E-07$
PLE				NO	NO	NO	NO	NO
Indicator value				$-1.16E-07$	$-1.28E-07$	$-1.20E-07$	$-1.20E-07$	$-1.21E-07$

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



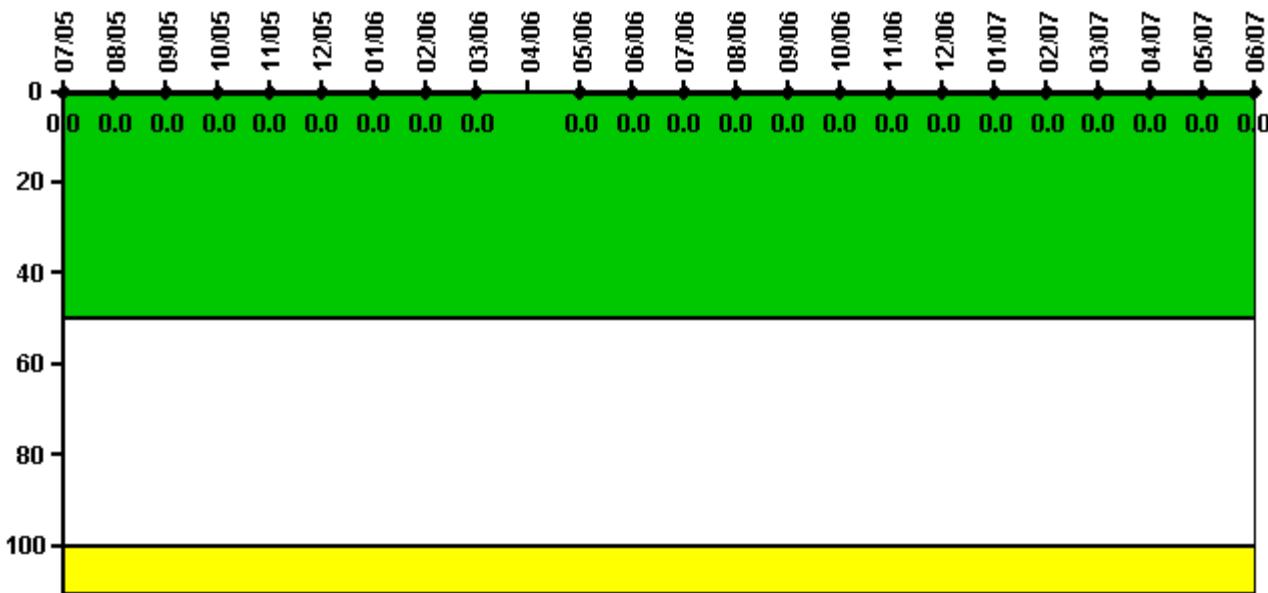
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (Δ CDF)				1.60E-07	2.90E-08	-5.90E-08	4.60E-08	-1.10E-07
URI (Δ CDF)				1.60E-07	1.90E-07	1.70E-07	1.70E-07	-2.10E-07
PLE				NO	NO	NO	NO	NO
Indicator value				3.20E-07	2.19E-07	1.11E-07	2.16E-07	-3.20E-07

Licensee Comments: none

Reactor Coolant System Activity



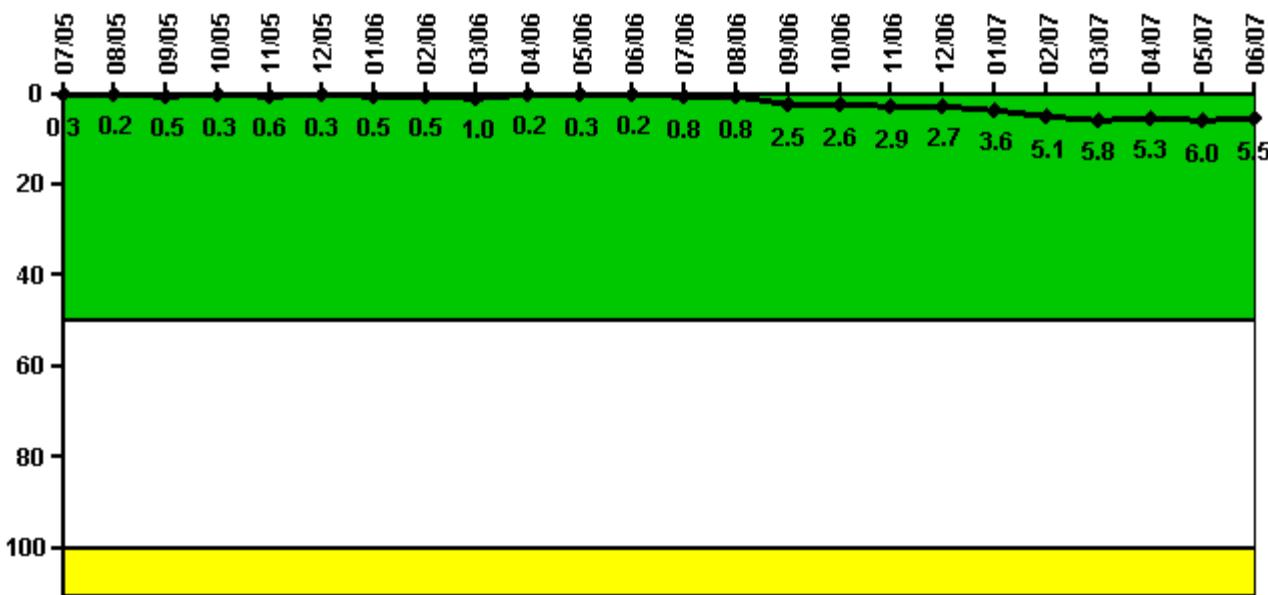
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity		7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06
Maximum activity		0.000198	0.000202	0.000204	0.000213	0.000224	0.000222	0.000286	0.000292	0.000294	N/A	0.000121	0.000127
Technical specification limit		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value		0	N/A	0	0								
Reactor Coolant System Activity		7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum activity		0.000132	0.000142	0.000168	0.000191	0.000152	0.000150	0.000148	0.000154	0.000177	0.000228	0.000223	0.000219
Technical specification limit		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value		0	0	0									

Licensee Comments: none

Reactor Coolant System Leakage



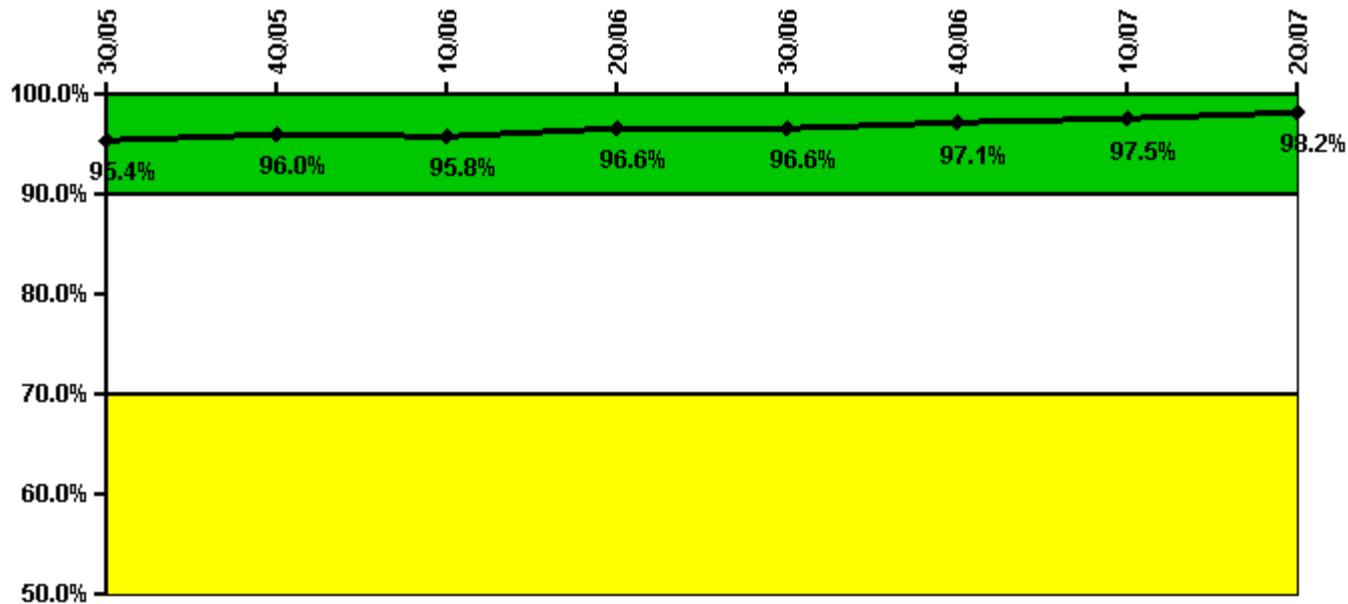
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06
Maximum leakage	0.029	0.023	0.053	0.031	0.070	0.036	0.057	0.053	0.114	0.021	0.033	0.022
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.3	0.2	0.5	0.3	0.6	0.3	0.5	0.5	1.0	0.2	0.3	0.2
Reactor Coolant System Leakage	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum leakage	0.086	0.090	0.280	0.289	0.323	0.299	0.391	0.560	0.638	0.586	0.656	0.603
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.8	0.8	2.5	2.6	2.9	2.7	3.6	5.1	5.8	5.3	6.0	5.5

Licensee Comments: none

Drill/Exercise Performance



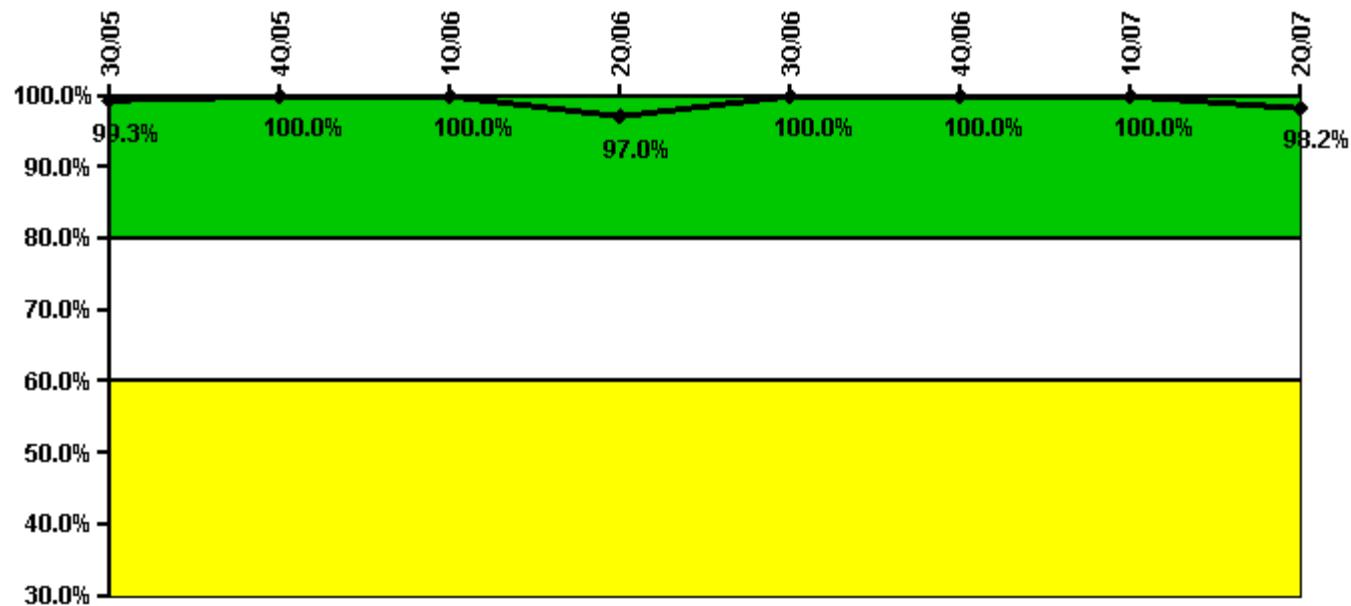
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful opportunities	108.0	58.0	78.0	84.0	57.0	130.0	113.0	121.0
Total opportunities	112.0	59.0	82.0	85.0	60.0	130.0	114.0	121.0
Indicator value	95.4%	96.0%	95.8%	96.6%	96.6%	97.1%	97.5%	98.2%

Licensee Comments: none

ERO Drill Participation



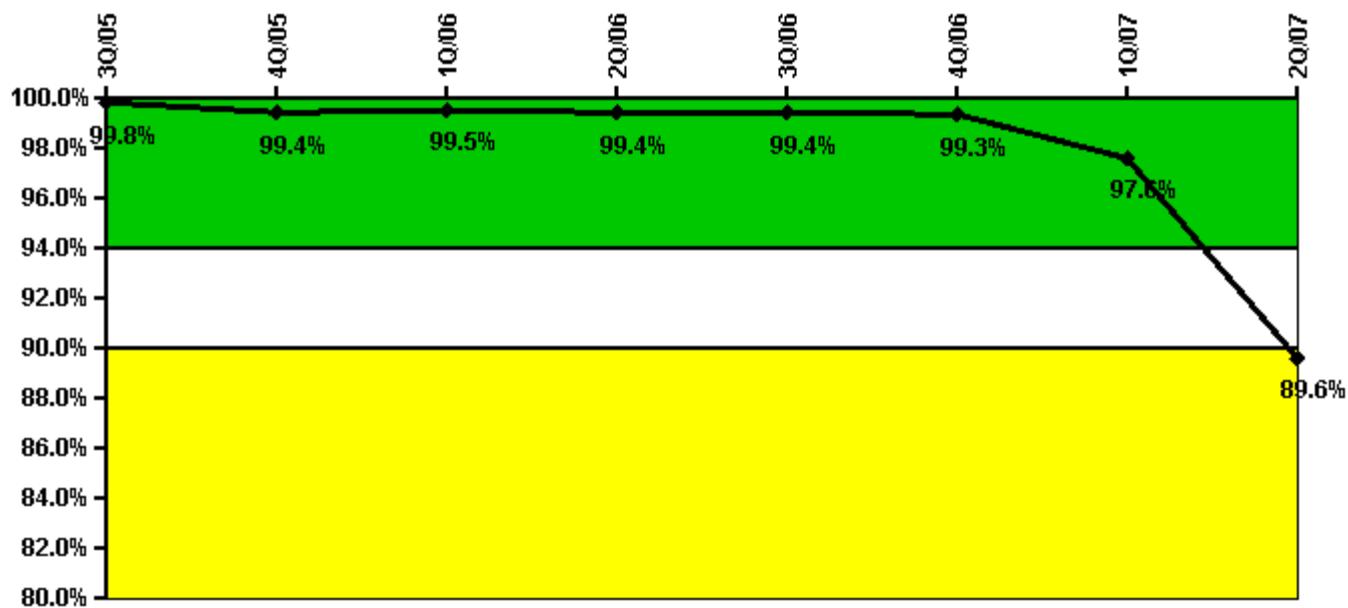
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Participating Key personnel	147.0	144.0	147.0	159.0	157.0	157.0	161.0	165.0
Total Key personnel	148.0	144.0	147.0	164.0	157.0	157.0	161.0	168.0
Indicator value	99.3%	100.0%	100.0%	97.0%	100.0%	100.0%	100.0%	98.2%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

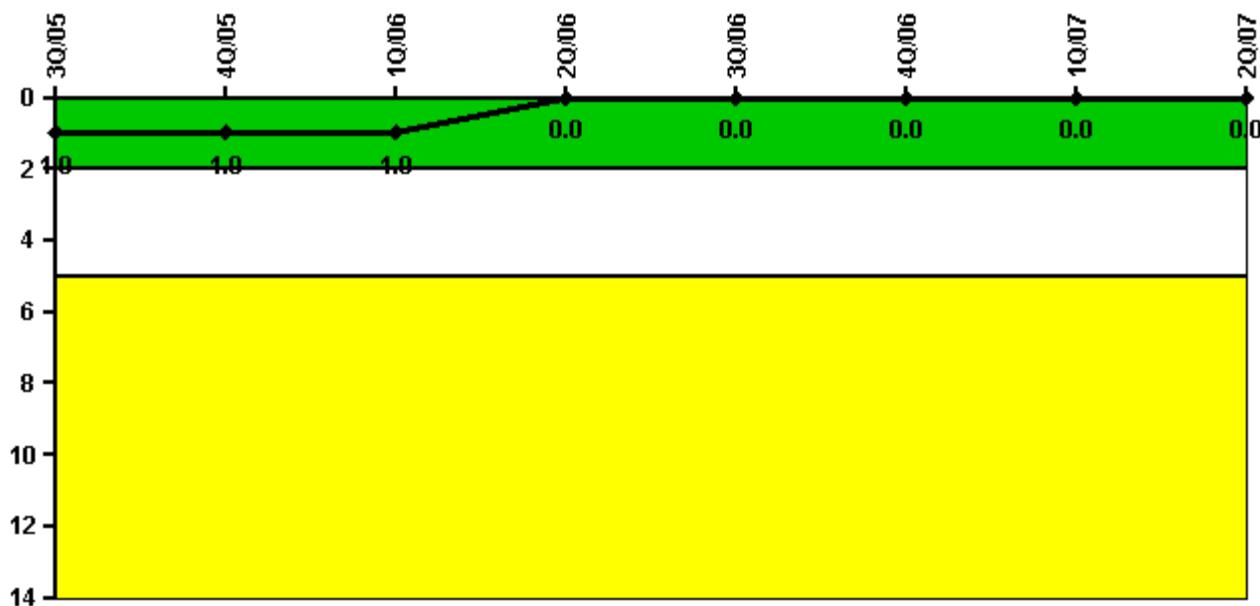
Notes

Alert & Notification System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful siren-tests	210	207	210	208	210	206	196	141
Total sirens-tests	210	210	210	210	210	210	210	210
Indicator value	99.8%	99.4%	99.5%	99.4%	99.4%	99.3%	97.6%	89.6%

Licensee Comments:

2Q/07: The 2nd Qtr 2007 siren test failures are being conservatively reported pending resolution of the associated FAQ.

Occupational Exposure Control Effectiveness



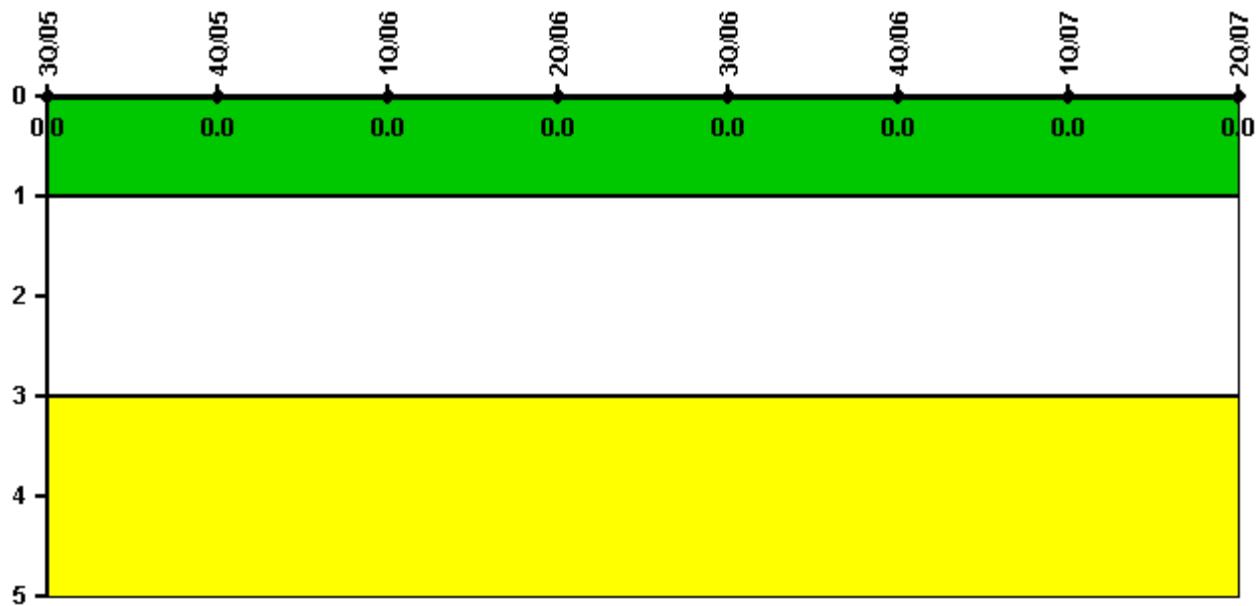
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	1	1	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

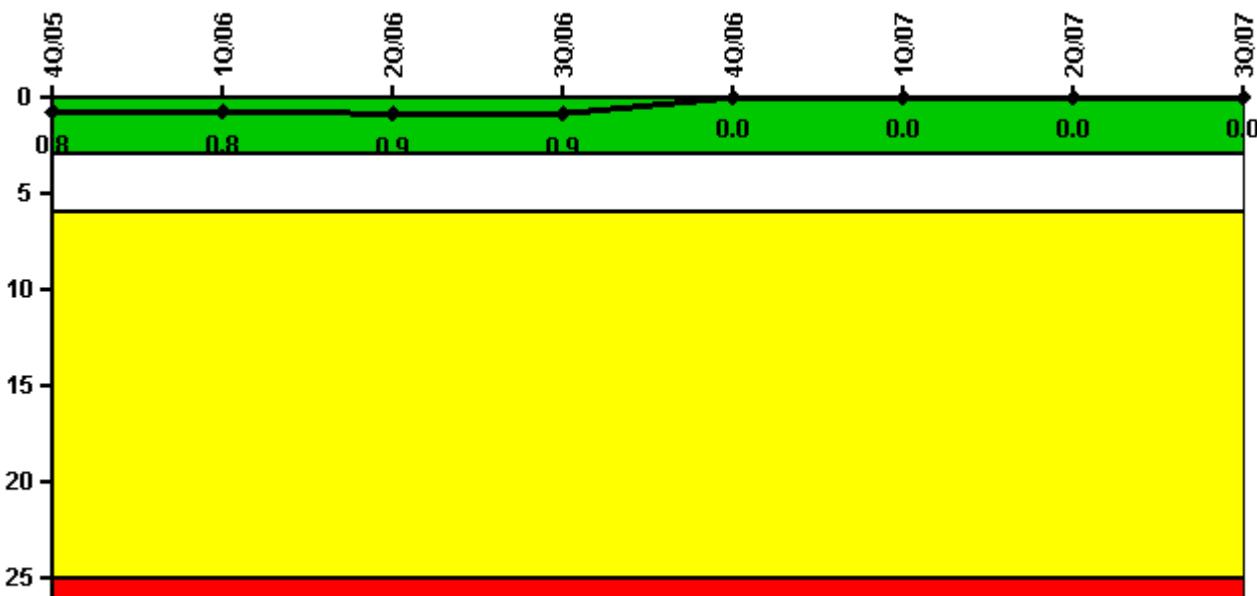
[Physical Protection](#) information not publicly available.

D.C. Cook 2

3Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



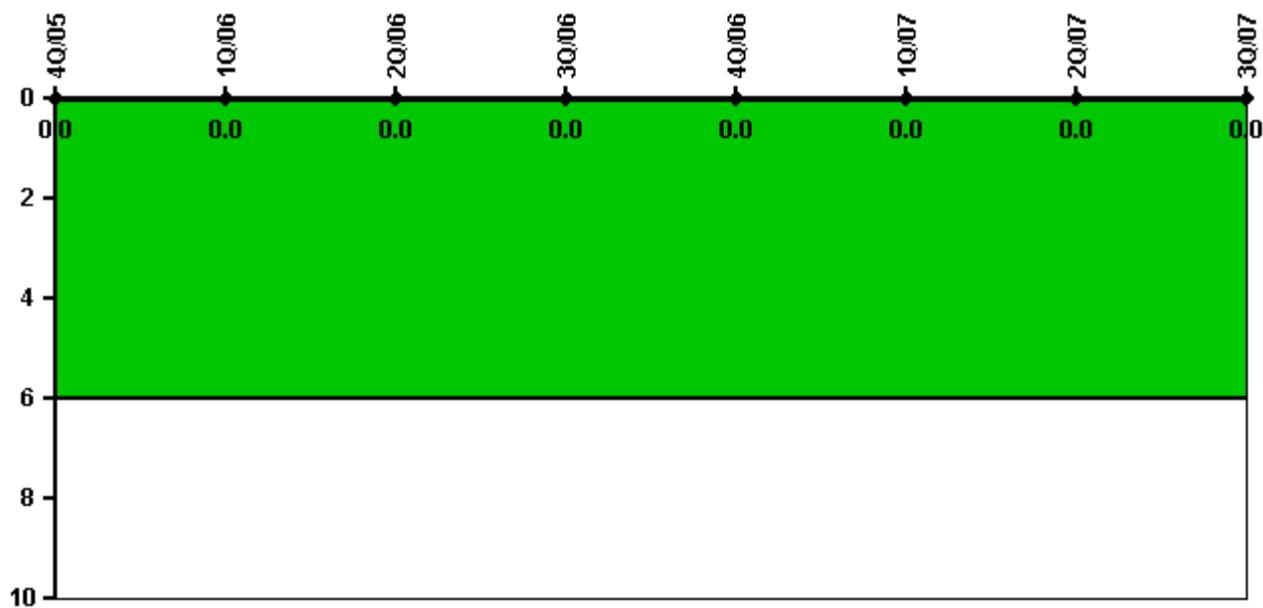
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2147.6	1992.0	1331.7	2208.0	2209.0	2159.0	2184.0	1824.0
Indicator value	0.8	0.8	0.9	0.9	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



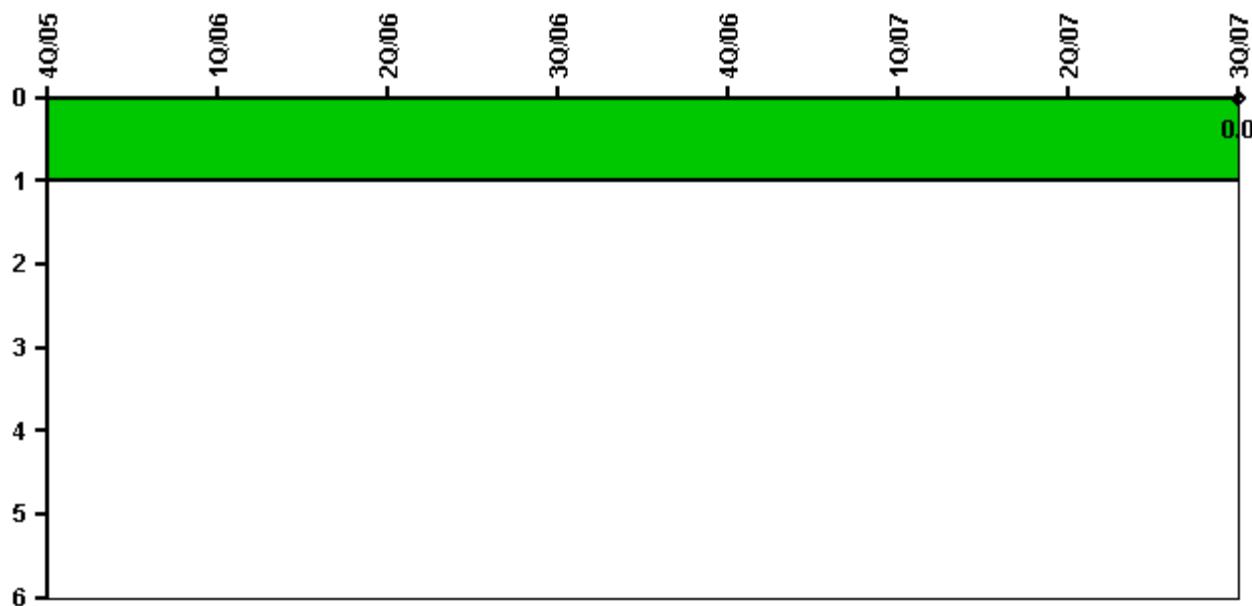
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2147.6	1992.0	1331.7	2208.0	2209.0	2159.0	2184.0	1824.0
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



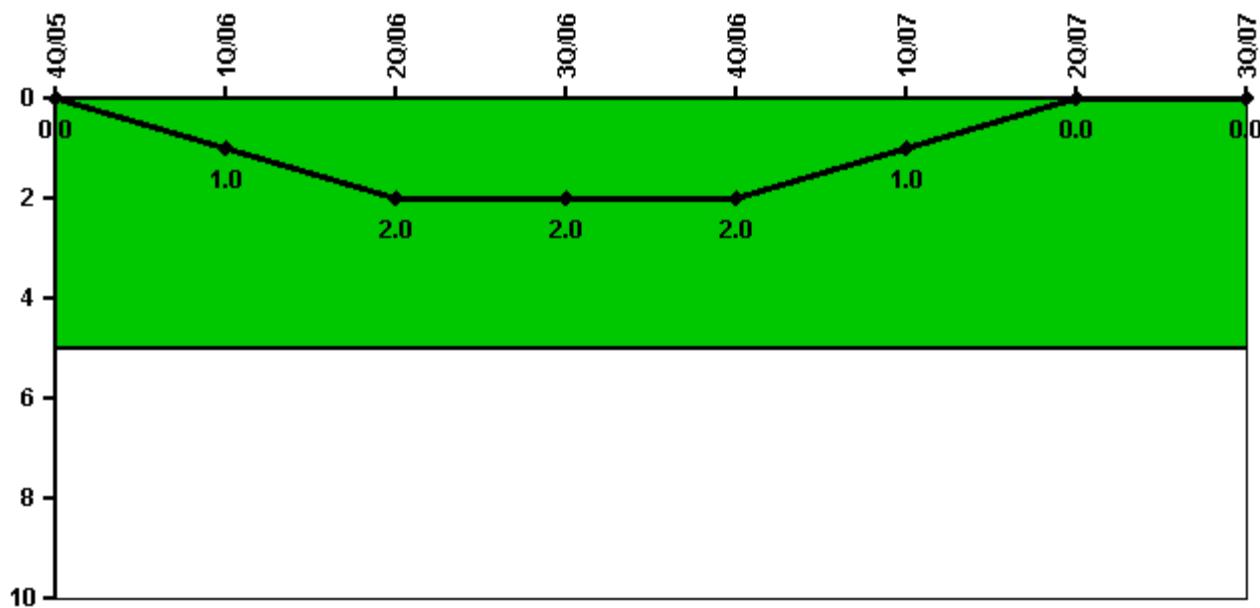
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Scrams with complications					0	0	0	0
Indicator value								0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



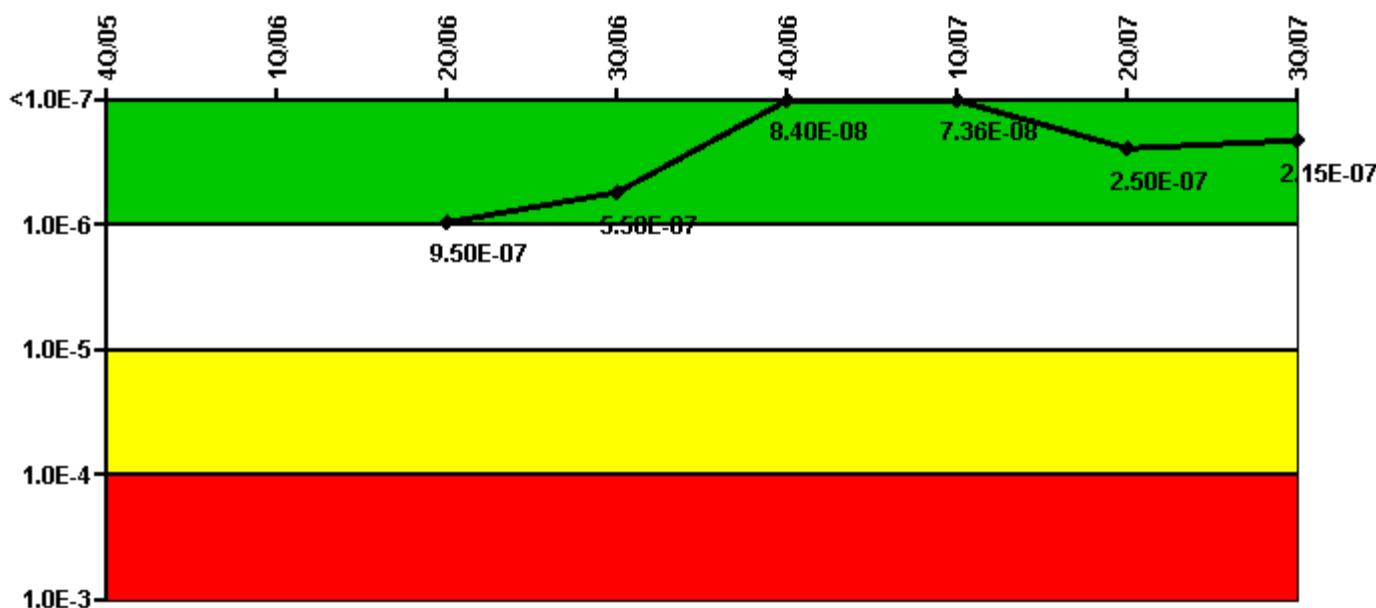
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Safety System Functional Failures	0	1	1	0	0	0	0	0
Indicator value	0	1	2	2	2	1	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



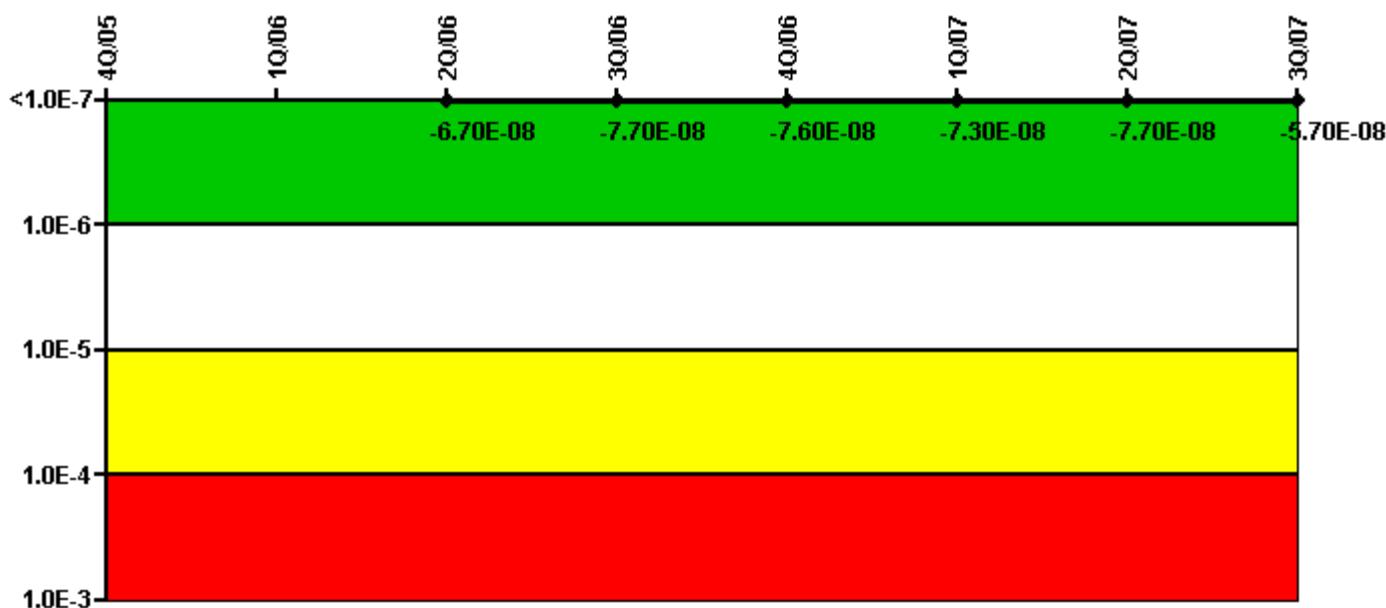
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	
UAI (ΔCDF)				1.50E-07	9.80E-08	1.20E-08	1.60E-09	1.00E-08	5.40E-09
URI (ΔCDF)				8.00E-07	4.60E-07	7.20E-08	7.20E-08	2.40E-07	2.10E-07
PLE				NO	NO	NO	NO	NO	NO
Indicator value				9.50E-07	5.58E-07	8.40E-08	7.36E-08	2.50E-07	2.15E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



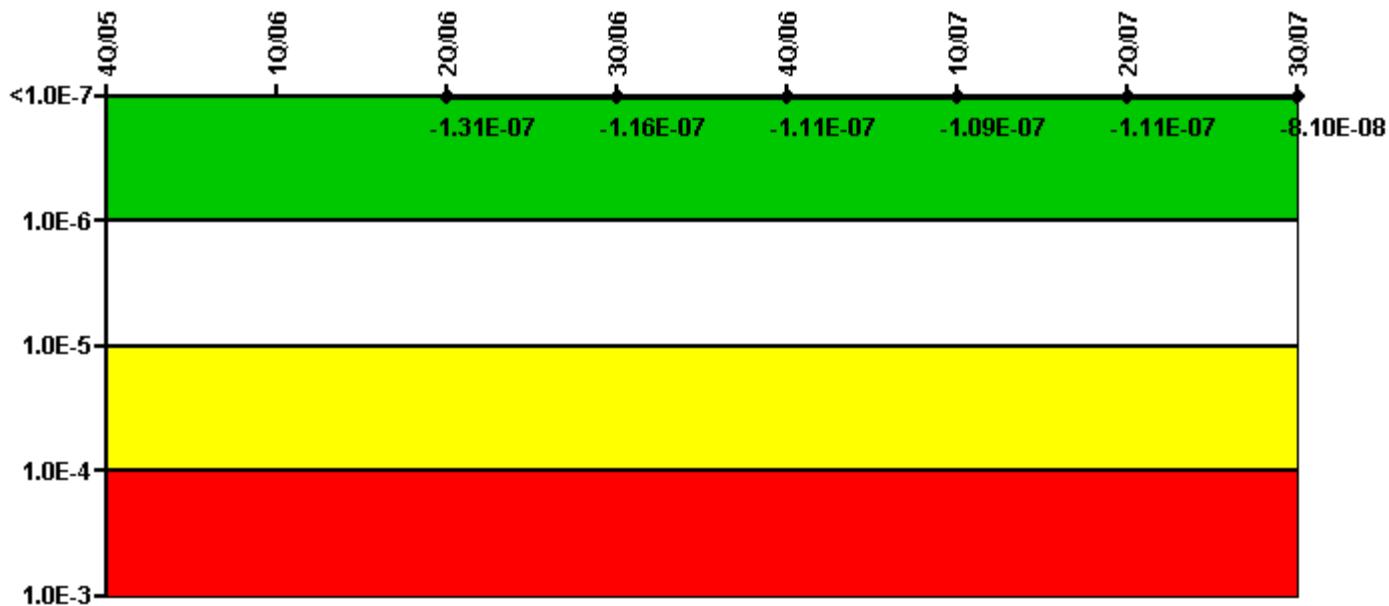
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			-2.20E-08	-2.90E-08	-3.40E-08	-3.10E-08	-3.50E-08	-2.20E-08
URI (ΔCDF)			-4.50E-08	-4.80E-08	-4.20E-08	-4.20E-08	-4.20E-08	-3.50E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-6.70E-08	-7.70E-08	-7.60E-08	-7.30E-08	-7.70E-08	-5.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



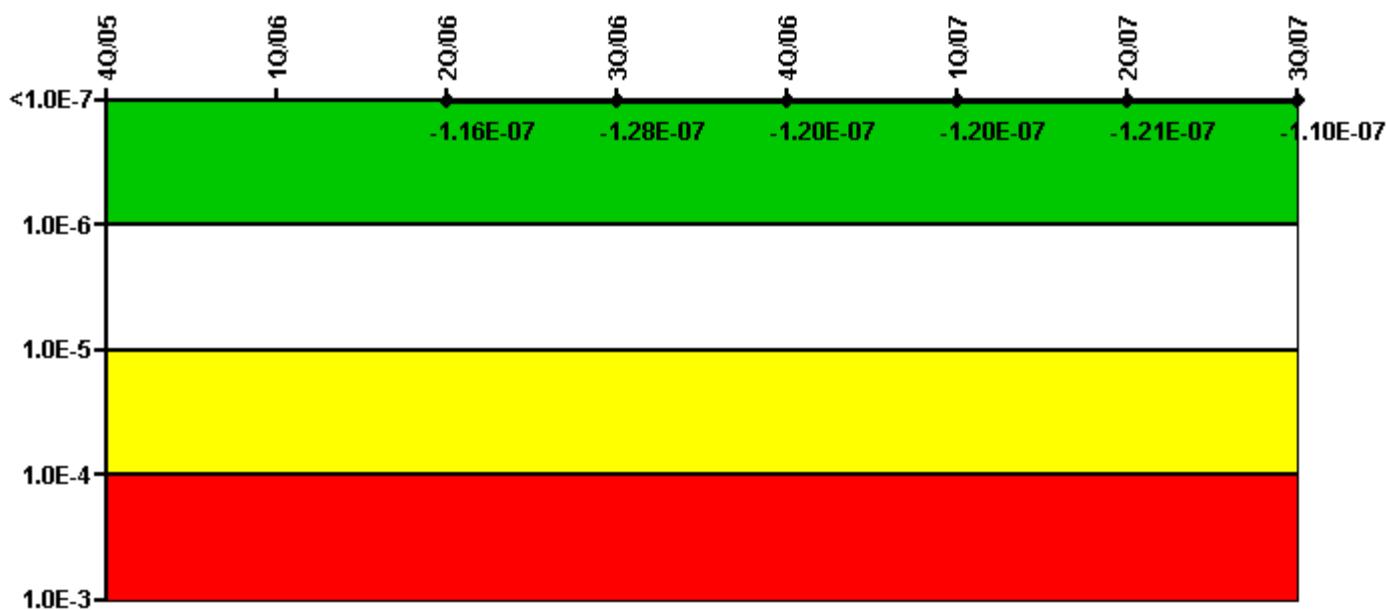
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			-4.20E-08	-2.30E-08	-3.00E-08	-3.00E-08	-3.40E-08	-2.20E-08
URI (ΔCDF)			-8.90E-08	-9.30E-08	-8.10E-08	-7.90E-08	-7.70E-08	-5.90E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-1.31E-07	-1.16E-07	-1.11E-07	-1.09E-07	-1.11E-07	-8.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



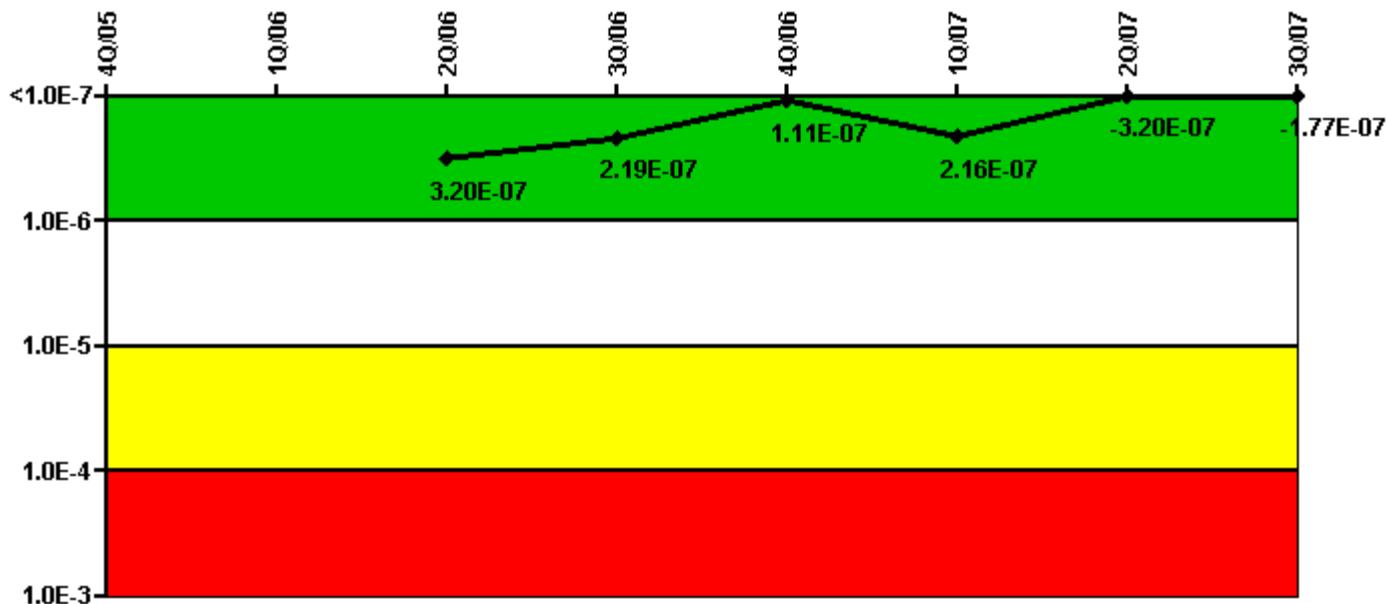
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	
UAI (ΔCDF)				4.20E-09	1.70E-09	-2.40E-10	-2.60E-10	-8.40E-10	-2.00E-10
URI (ΔCDF)					-1.20E-07	-1.30E-07	-1.20E-07	-1.20E-07	-1.10E-07
PLE				NO	NO	NO	NO	NO	NO
Indicator value				-1.16E-07	-1.28E-07	-1.20E-07	-1.21E-07	-1.10E-07	-1.10E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



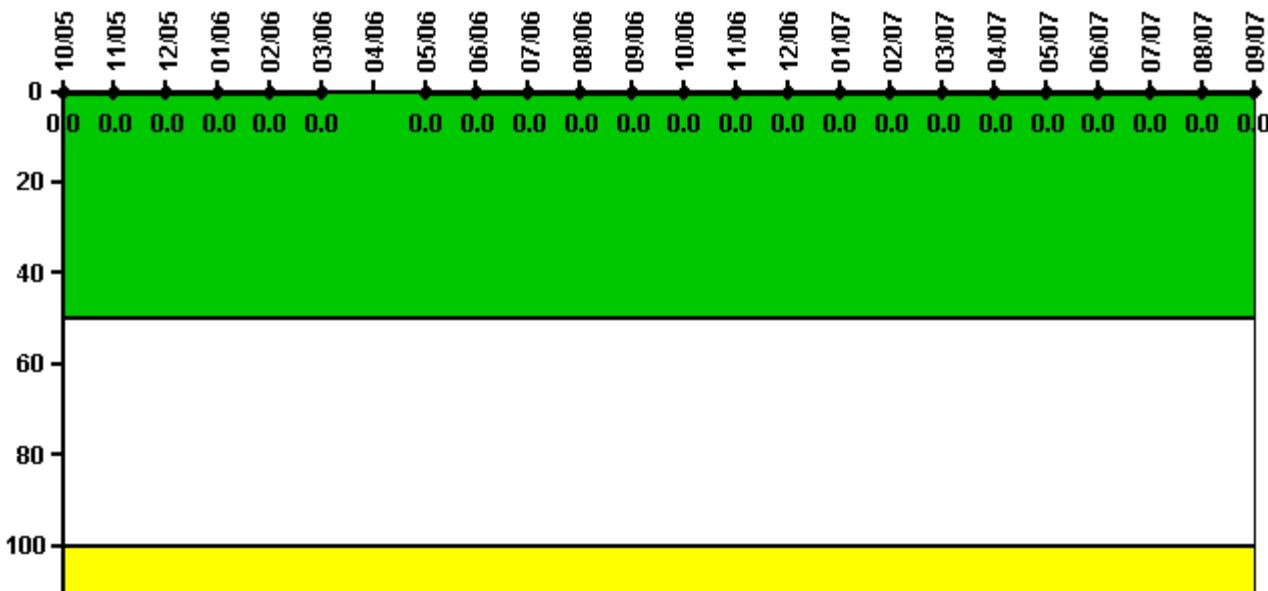
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (Δ CDF)			1.60E-07	2.90E-08	-5.90E-08	4.60E-08	-1.10E-07	-1.00E-07
URI (Δ CDF)			1.60E-07	1.90E-07	1.70E-07	1.70E-07	-2.10E-07	-7.70E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			3.20E-07	2.19E-07	1.11E-07	2.16E-07	-3.20E-07	-1.77E-07

Licensee Comments: none

Reactor Coolant System Activity



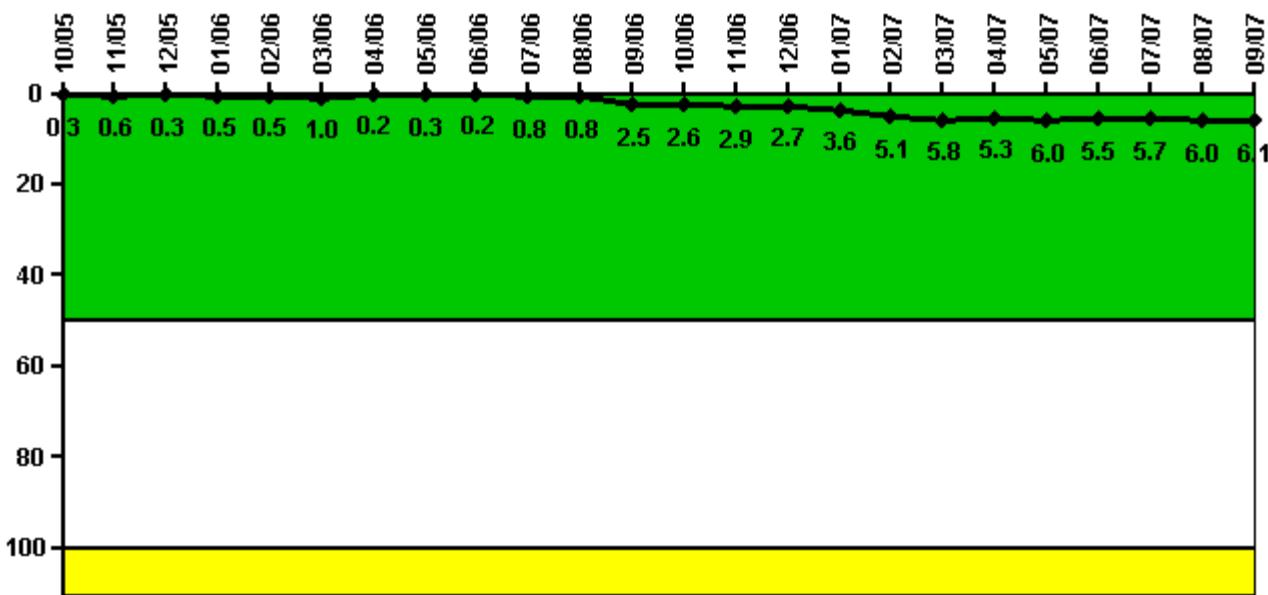
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity		10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06
Maximum activity		0.000213	0.000224	0.000222	0.000286	0.000292	0.000294	N/A	0.000121	0.000127	0.000132	0.000142	0.000168
Technical specification limit		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value		0	0	0	0	0	0	N/A	0	0	0	0	0
Reactor Coolant System Activity		10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum activity		0.000191	0.000152	0.000150	0.000148	0.000154	0.000177	0.000228	0.000223	0.000219	0.000216	0.000295	0.000240
Technical specification limit		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value		0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



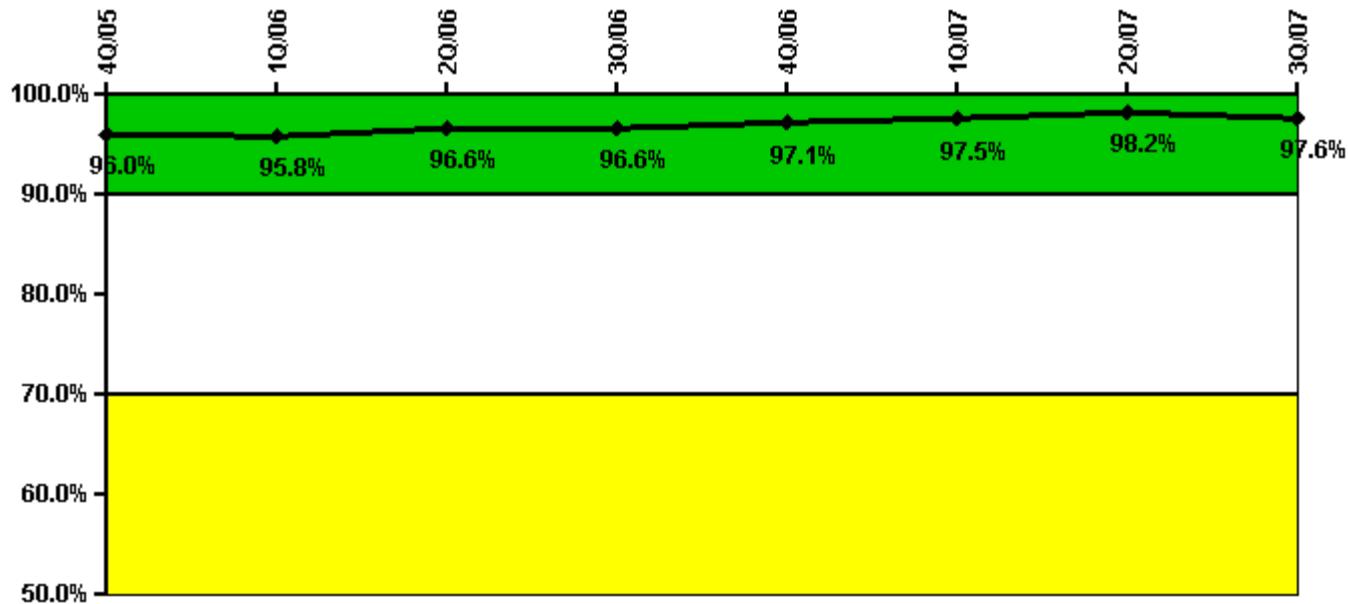
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06
Maximum leakage	0.031	0.070	0.036	0.057	0.053	0.114	0.021	0.033	0.022	0.086	0.090	0.280
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.3	0.6	0.3	0.5	0.5	1.0	0.2	0.3	0.2	0.8	0.8	2.5
Reactor Coolant System Leakage	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum leakage	0.289	0.323	0.299	0.391	0.560	0.638	0.586	0.656	0.603	0.626	0.657	0.673
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	2.6	2.9	2.7	3.6	5.1	5.8	5.3	6.0	5.5	5.7	6.0	6.1

Licensee Comments: none

Drill/Exercise Performance



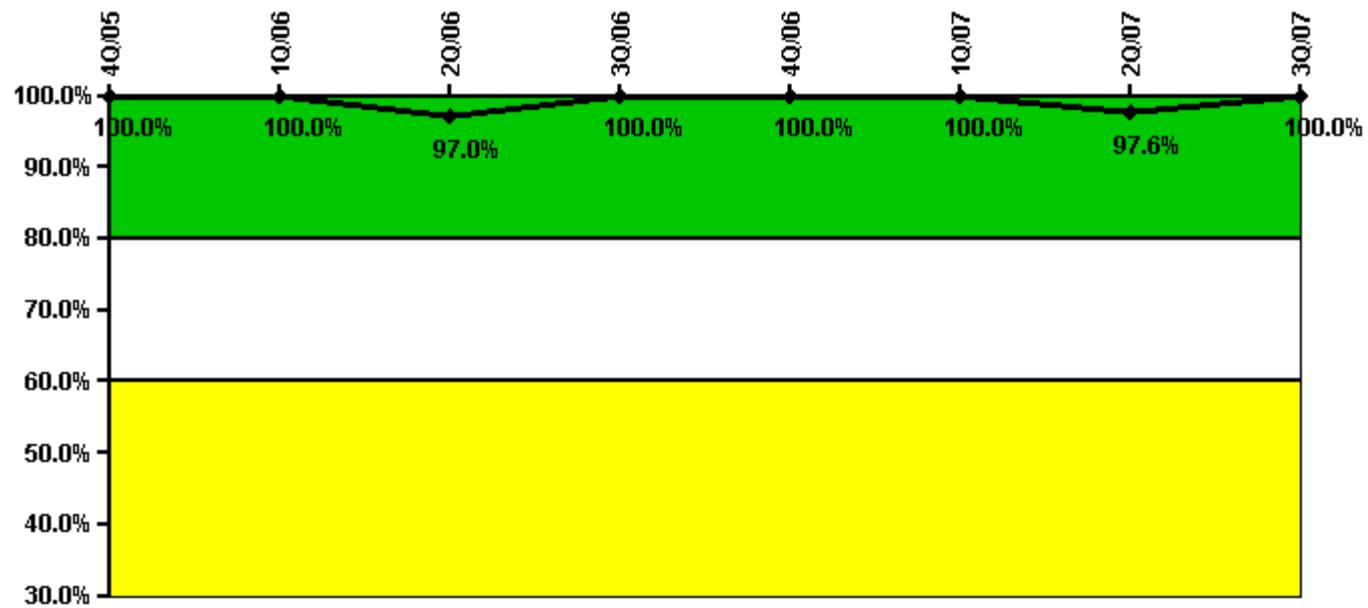
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful opportunities	58.0	78.0	84.0	57.0	130.0	113.0	121.0	43.0
Total opportunities	59.0	82.0	85.0	60.0	130.0	114.0	121.0	50.0
Indicator value	96.0%	95.8%	96.6%	96.6%	97.1%	97.5%	98.2%	97.6%

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

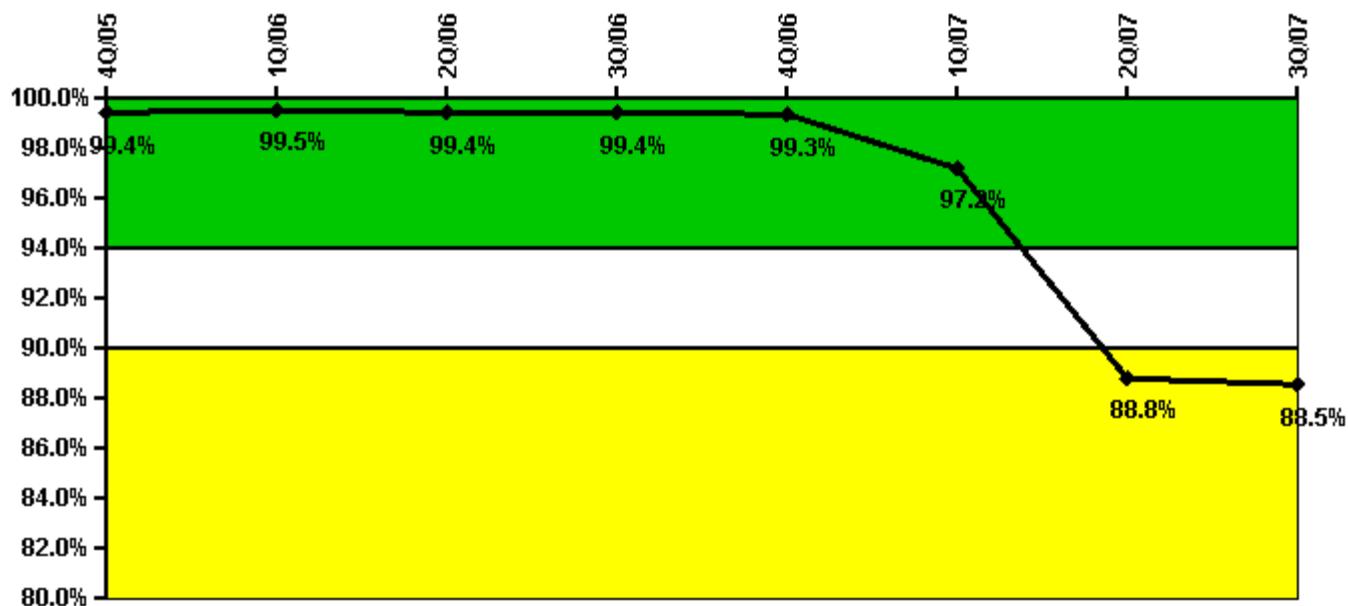
Notes

ERO Drill Participation	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Participating Key personnel	144.0	147.0	159.0	157.0	157.0	161.0	165.0	161.0
Total Key personnel	144.0	147.0	164.0	157.0	157.0	161.0	169.0	161.0
Indicator value	100.0%	100.0%	97.0%	100.0%	100.0%	100.0%	97.6%	100.0%

Licensee Comments:

2Q/07: This PI was updated to change Total Key Personnel reported from 168 to 169. This change was implemented to correct a data collection and reporting error.

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful siren-tests	207	210	208	210	194	181	128	197
Total sirens-tests	210	210	210	210	198	198	197	198
Indicator value	99.4%	99.5%	99.4%	99.4%	99.3%	97.2%	88.8%	88.5%

Licensee Comments:

3Q/07: It was discovered that testing for four ANS sirens located within State Park property was not conducted in accordance with FEMA guidelines and were not valid test opportunities. Therefore, the testing of these sirens are considered missed opportunities. These missed opportunities have been captured in the station corrective action program. These corrections to the PI data reflect extent of condition reviews for the station entry into a degraded cornerstone for emergency planning.

2Q/07: It was discovered that testing for four ANS sirens located within State Park property was not conducted in accordance with FEMA guidelines and were not valid test opportunities. Therefore, the testing of these sirens are considered missed opportunities and the number of valid test opportunities is being corrected by reducing the total by four tests each month. The number of successful tests is also being corrected with a commensurate reduction as appropriate. These missed opportunities have been captured in the station corrective action program. Also, the 2Q07 number of test opportunities is being corrected by one siren test which is now considered to be a missed opportunity. This individual test was performed a day prior to the regularly scheduled test date to avoid disruption of a county festival. These corrections to the PI data reflect extent of condition reviews for the station entry into a degraded cornerstone for emergency planning. In addition, during the station verification of siren testing documentation, insufficient data was found to support four individual siren tests performed in 2Q07. This performance indicator is also being corrected to denote these four previously considered successful tests as failures. These corrections to the PI data reflect extent of condition reviews for the station entry into a degraded cornerstone for emergency preparedness EP03 Alert and Notification System (ANS) Reliability.

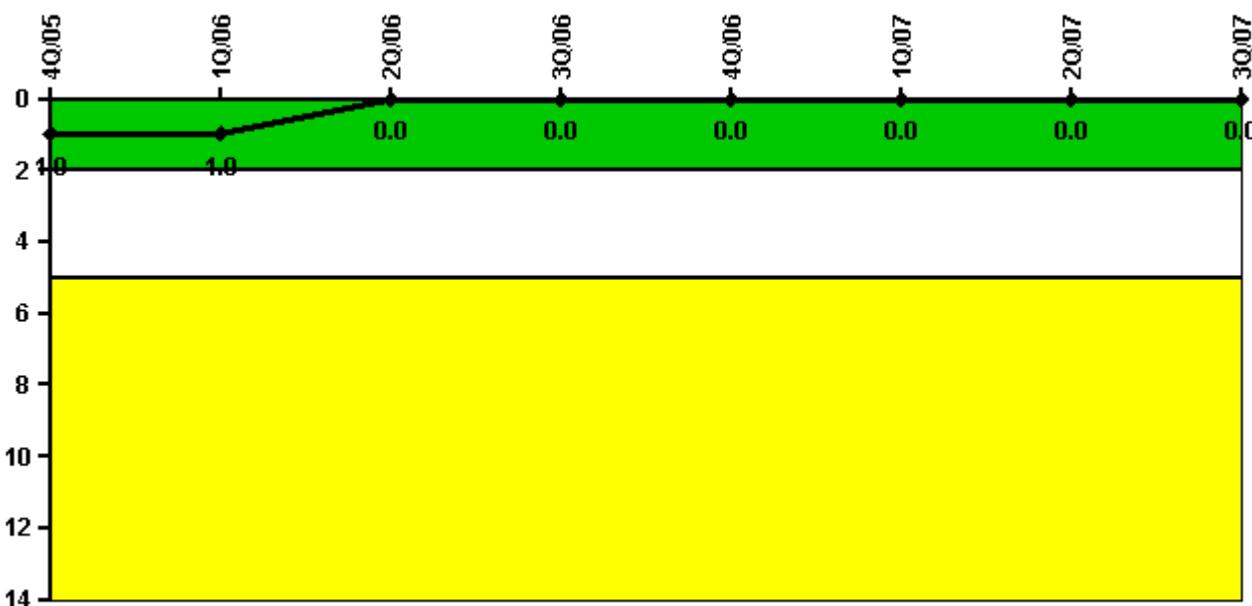
2Q/07: The 2nd Qtr 2007 siren test failures are being conservatively reported pending resolution of the associated FAQ.

1Q/07: It was discovered that testing for four ANS sirens located within State Park property was not conducted in accordance with FEMA guidelines and were not valid test opportunities. Therefore, the testing of these sirens are considered missed opportunities and the number of valid test opportunities is being corrected by reducing the total

by four tests each month. The number of successful tests is also being corrected with a commensurate reduction as appropriate. These missed opportunities have been captured in the station corrective action program. In addition, during a station verification of siren testing documentation, insufficient data was found to support three individual siren tests performed in 1Q07. The PI is also being corrected to denote these three previously considered successful tests as test failures. These corrections to the PI data reflect extent of condition reviews for the station entry into a degraded cornerstone for emergency planning.

4Q/06: It was discovered that testing for four ANS sirens located within State Park property was not conducted in accordance with FEMA guidelines and were not valid test opportunities. Therefore, the testing of these sirens are considered missed opportunities and the number of valid test opportunities is being corrected by reducing the total by four tests each month. The number of successful tests is also being corrected with a commensurate reduction as appropriate. These missed opportunities have been captured in the station corrective action program. These corrections to the PI data reflect extent of condition reviews for the station entry into a degraded cornerstone for emergency planning.

Occupational Exposure Control Effectiveness



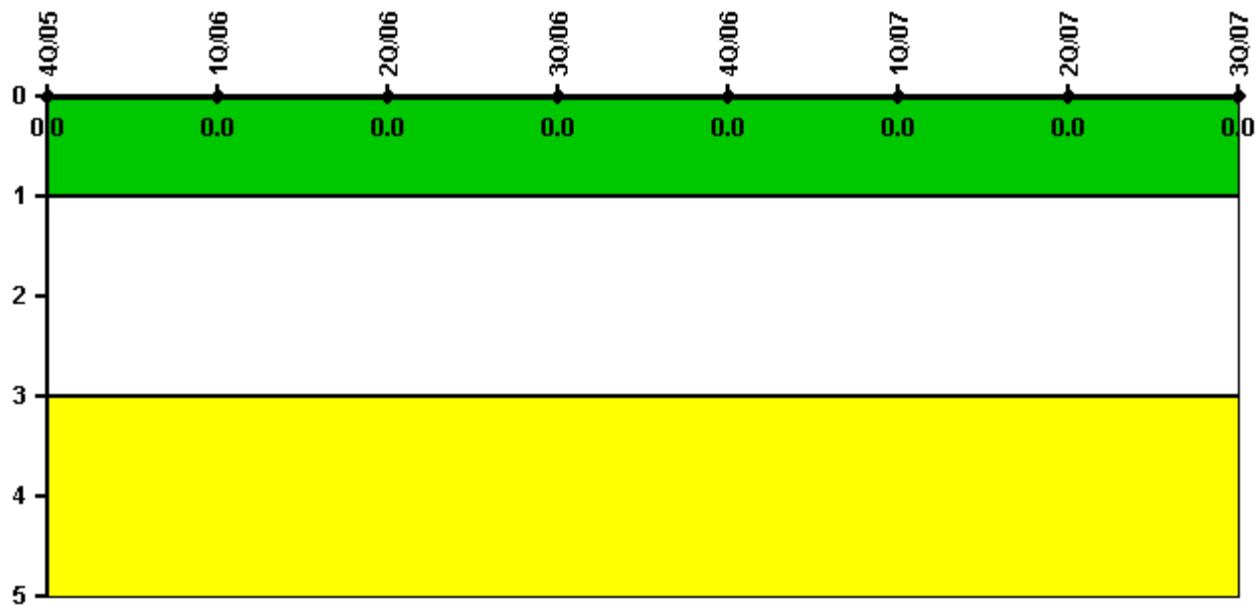
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	1	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

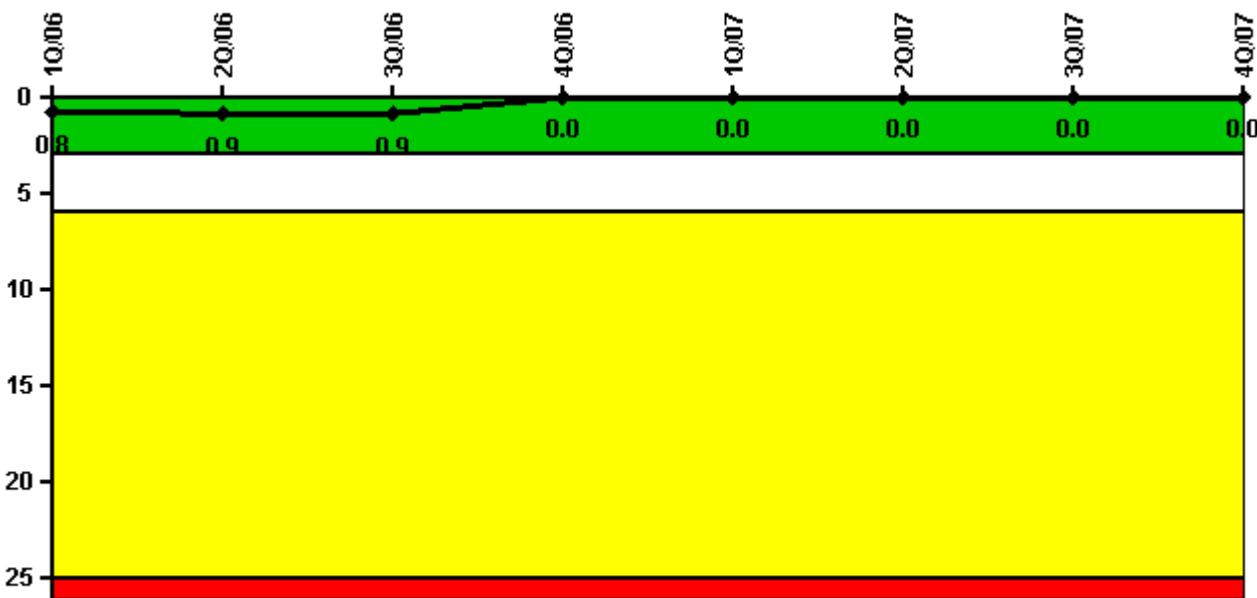
[Physical Protection](#) information not publicly available.

D.C. Cook 2

4Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



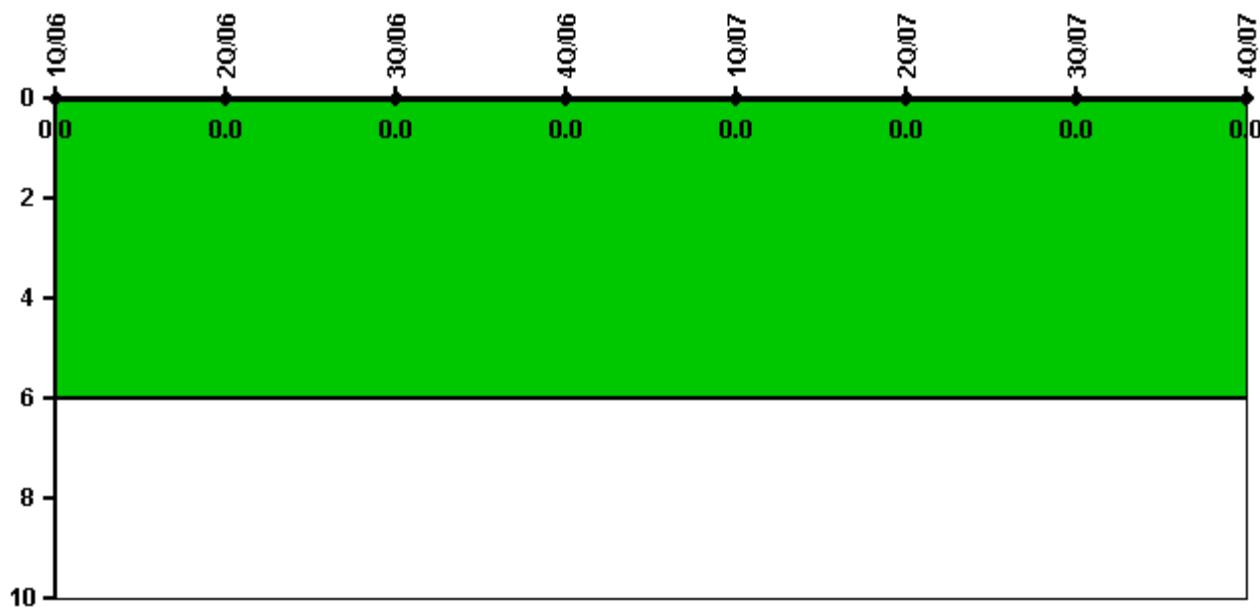
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1992.0	1331.7	2208.0	2209.0	2159.0	2184.0	1824.0	1340.3
Indicator value	0.8	0.9	0.9	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



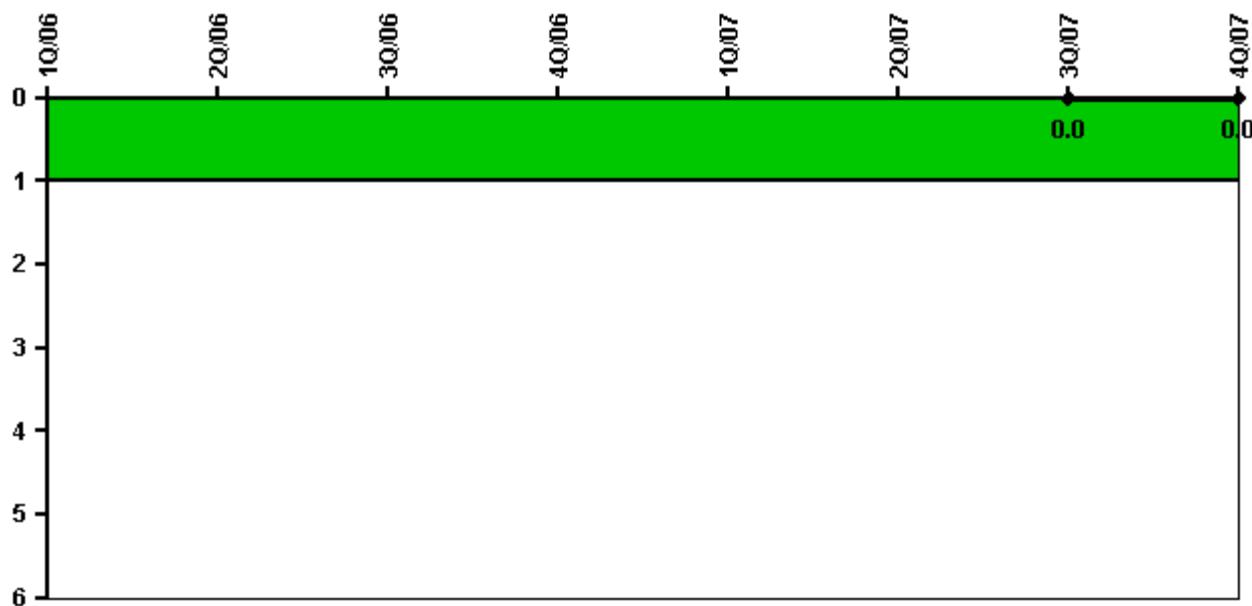
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1992.0	1331.7	2208.0	2209.0	2159.0	2184.0	1824.0	1340.3
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



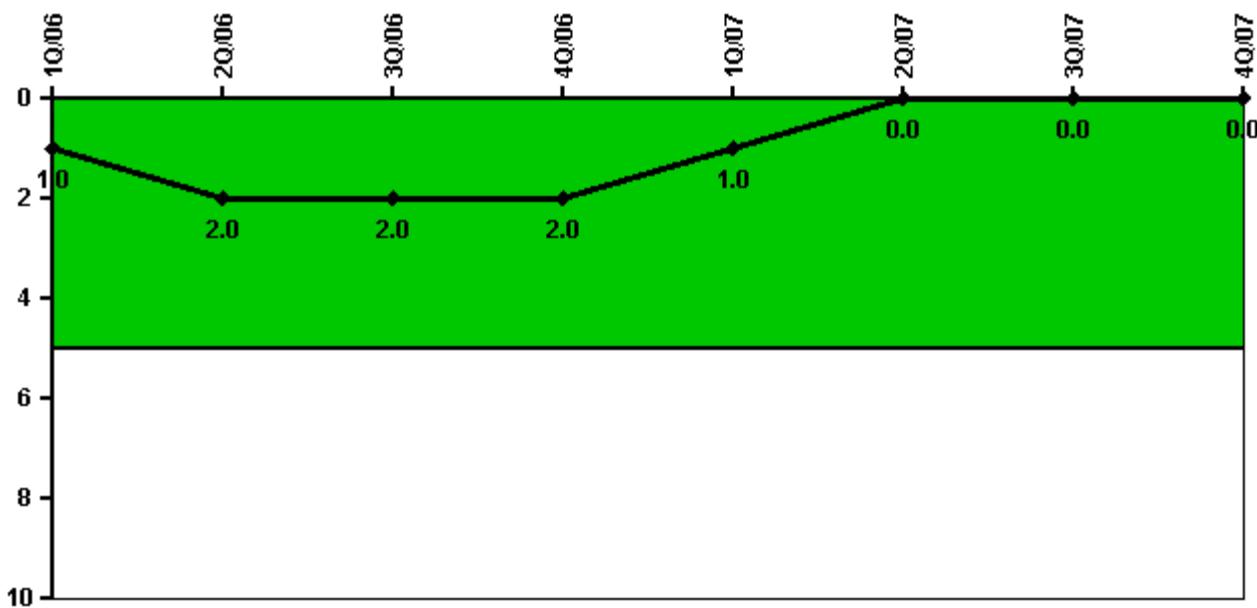
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Scrams with complications				0	0	0	0	0
Indicator value							0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



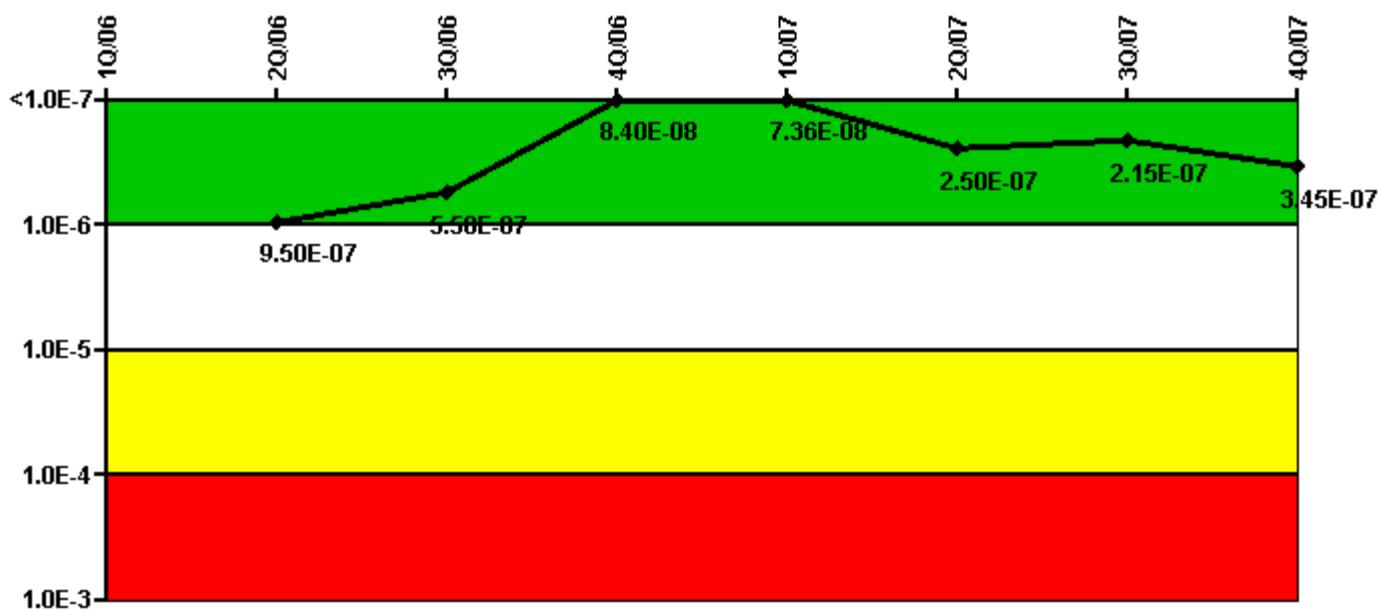
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Safety System Functional Failures	1	1	0	0	0	0	0	0
Indicator value	1	2	2	2	1	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



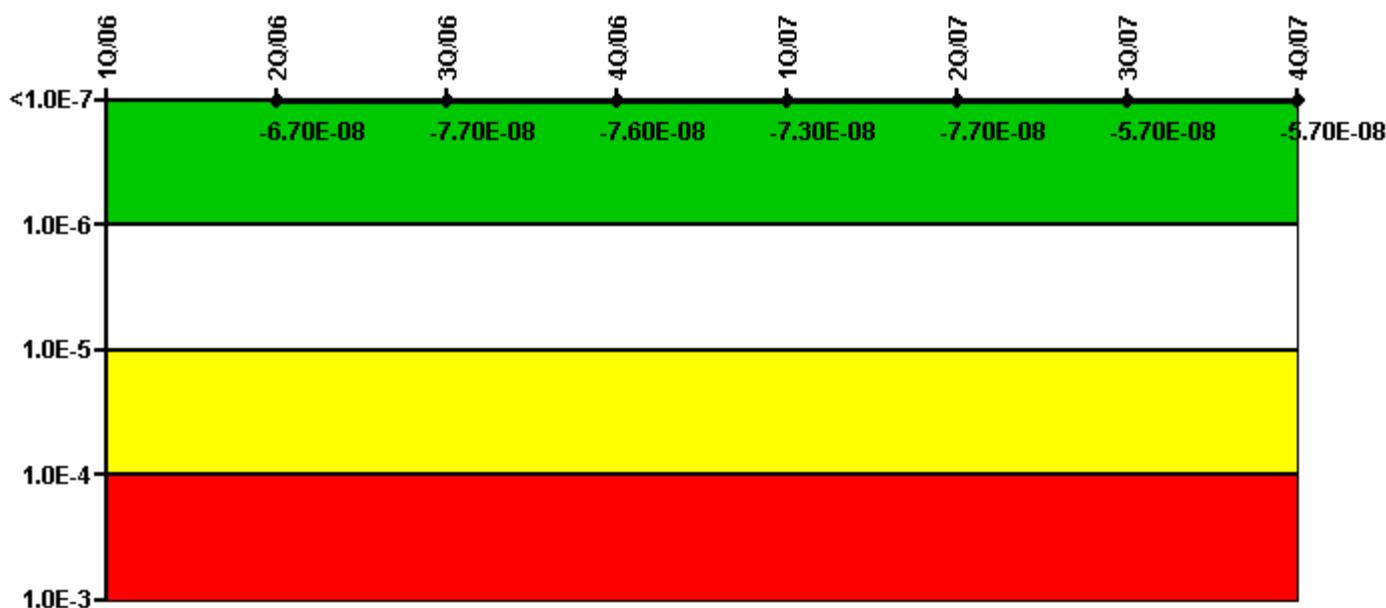
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (Δ CDF)		1.50E-07	9.80E-08	1.20E-08	1.60E-09	1.00E-08	5.40E-09	5.00E-09
URI (Δ CDF)		8.00E-07	4.60E-07	7.20E-08	7.20E-08	2.40E-07	2.10E-07	3.40E-07
PLE		NO						
Indicator value		9.50E-07	5.58E-07	8.40E-08	7.36E-08	2.50E-07	2.15E-07	3.45E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



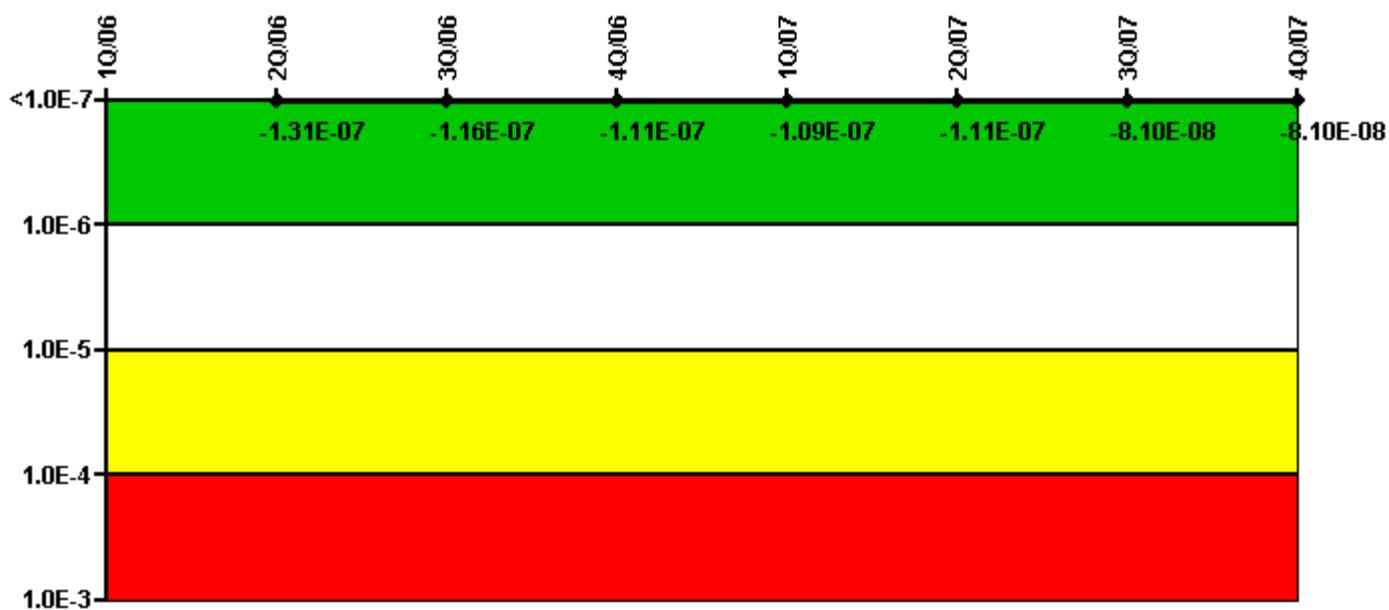
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (Δ CDF)		-2.20E-08	-2.90E-08	-3.40E-08	-3.10E-08	-3.50E-08	-2.20E-08	-2.20E-08
URI (Δ CDF)		-4.50E-08	-4.80E-08	-4.20E-08	-4.20E-08	-4.20E-08	-3.50E-08	-3.50E-08
PLE		NO						
Indicator value		-6.70E-08	-7.70E-08	-7.60E-08	-7.30E-08	-7.70E-08	-5.70E-08	-5.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



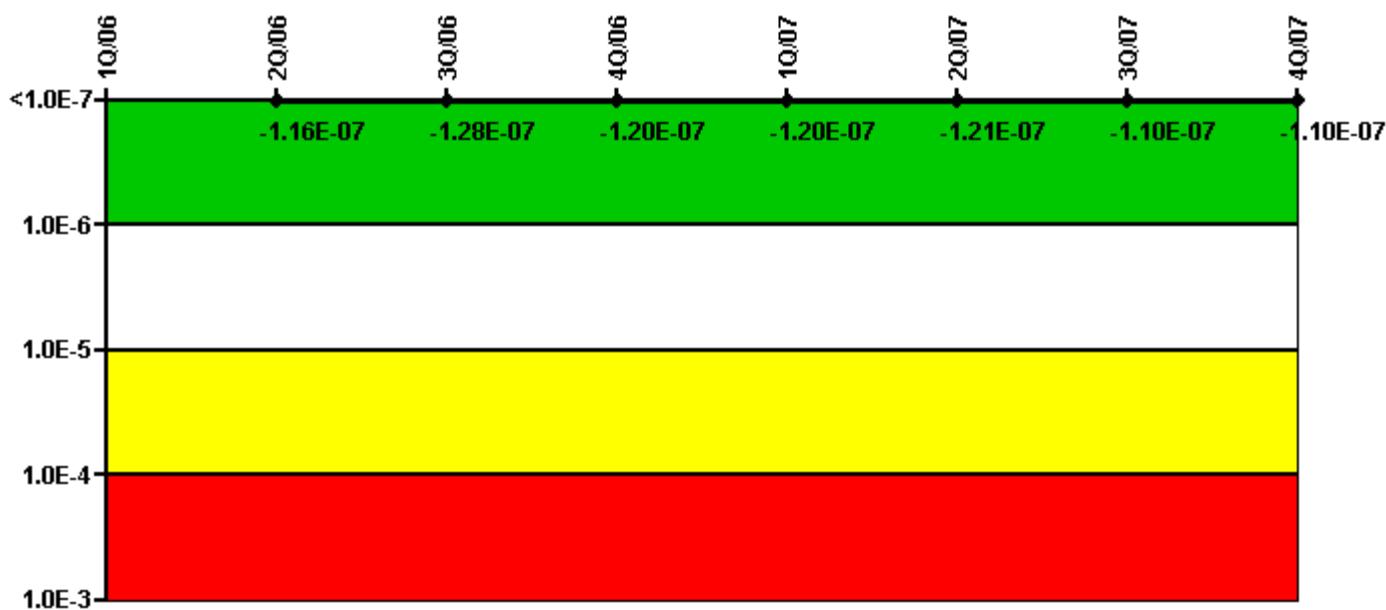
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (Δ CDF)		-4.20E-08	-2.30E-08	-3.00E-08	-3.00E-08	-3.40E-08	-2.20E-08	-2.20E-08
URI (Δ CDF)		-8.90E-08	-9.30E-08	-8.10E-08	-7.90E-08	-7.70E-08	-5.90E-08	-5.90E-08
PLE		NO						
Indicator value		-1.31E-07	-1.16E-07	-1.11E-07	-1.09E-07	-1.11E-07	-8.10E-08	-8.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



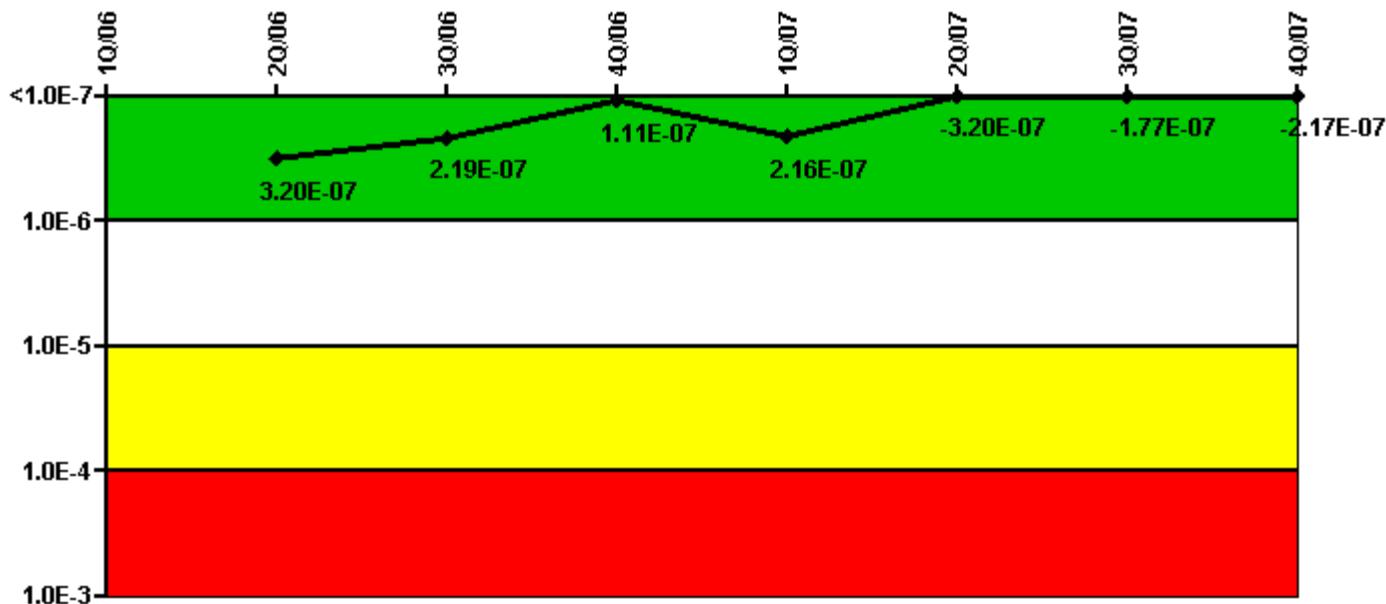
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (Δ CDF)		4.20E-09	1.70E-09	-2.40E-10	-2.60E-10	-8.40E-10	-2.00E-10	-2.00E-10
URI (Δ CDF)		-1.20E-07	-1.30E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.10E-07	-1.10E-07
PLE		NO						
Indicator value		-1.16E-07	-1.28E-07	-1.20E-07	-1.20E-07	-1.21E-07	-1.10E-07	-1.10E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



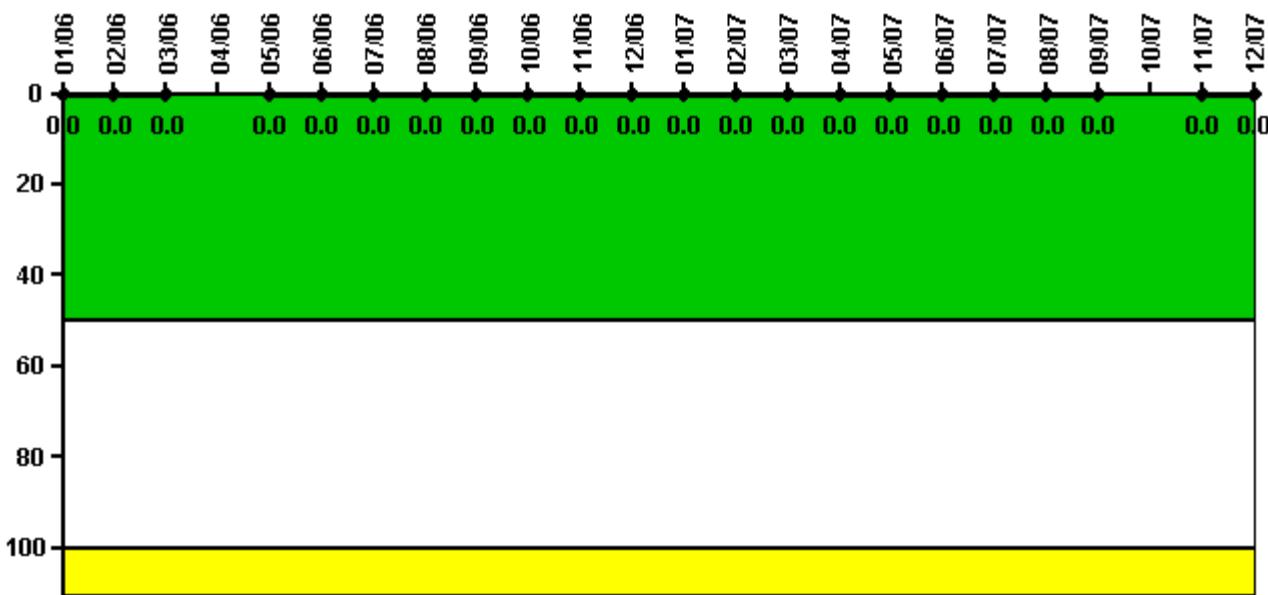
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (Δ CDF)		1.60E-07	2.90E-08	-5.90E-08	4.60E-08	-1.10E-07	-1.00E-07	-1.40E-07
URI (Δ CDF)		1.60E-07	1.90E-07	1.70E-07	1.70E-07	-2.10E-07	-7.70E-08	-7.70E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		3.20E-07	2.19E-07	1.11E-07	2.16E-07	-3.20E-07	-1.77E-07	-2.17E-07

Licensee Comments: none

Reactor Coolant System Activity



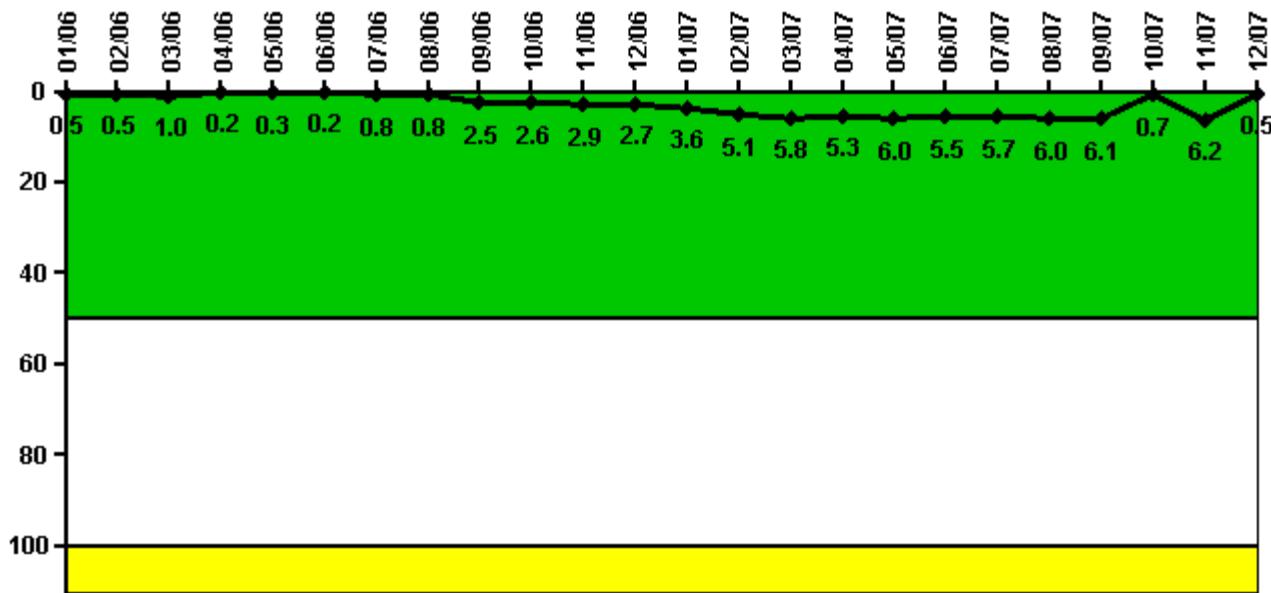
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum activity	0.000286	0.000292	0.000294	N/A	0.000121	0.000127	0.000132	0.000142	0.000168	0.000191	0.000152	0.000150
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	N/A	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum activity	0.000148	0.000154	0.000177	0.000228	0.000223	0.000219	0.000216	0.000295	0.000240	N/A	0.000114	0.000127
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	N/A	0	0

Licensee Comments: none

Reactor Coolant System Leakage



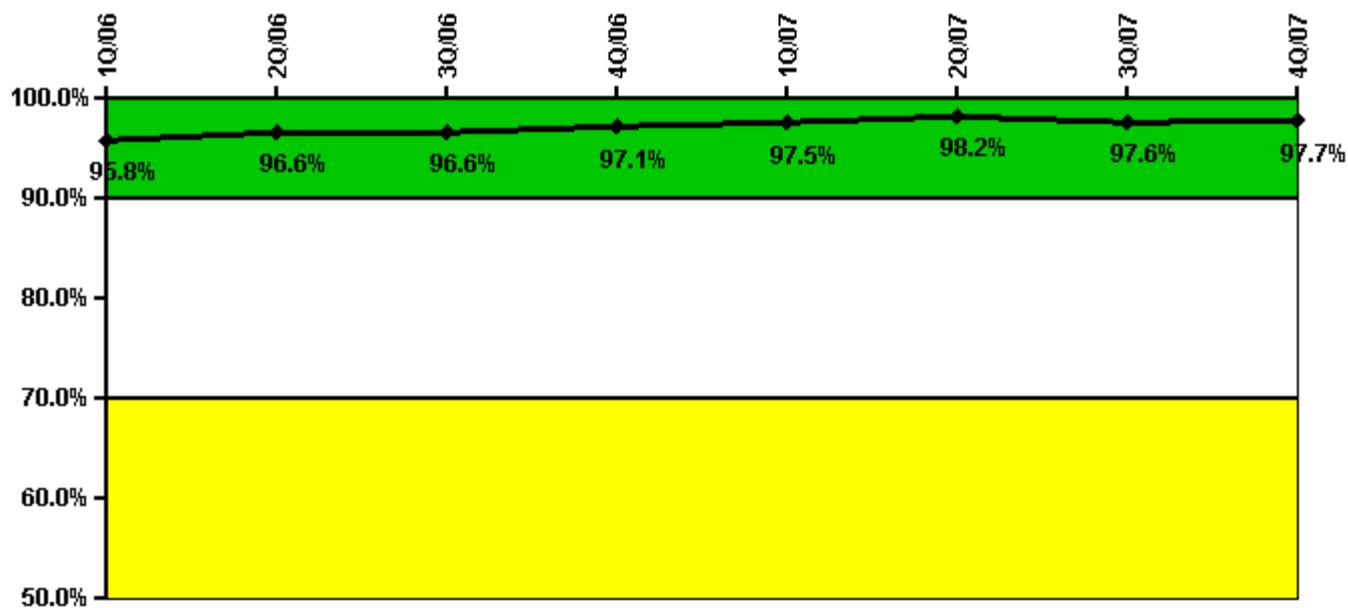
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum leakage	0.057	0.053	0.114	0.021	0.033	0.022	0.086	0.090	0.280	0.289	0.323	0.299
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.5	0.5	1.0	0.2	0.3	0.2	0.8	0.8	2.5	2.6	2.9	2.7
Reactor Coolant System Leakage	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum leakage	0.391	0.560	0.638	0.586	0.656	0.603	0.626	0.657	0.673	0.075	0.677	0.057
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	3.6	5.1	5.8	5.3	6.0	5.5	5.7	6.0	6.1	0.7	6.2	0.5

Licensee Comments: none

Drill/Exercise Performance



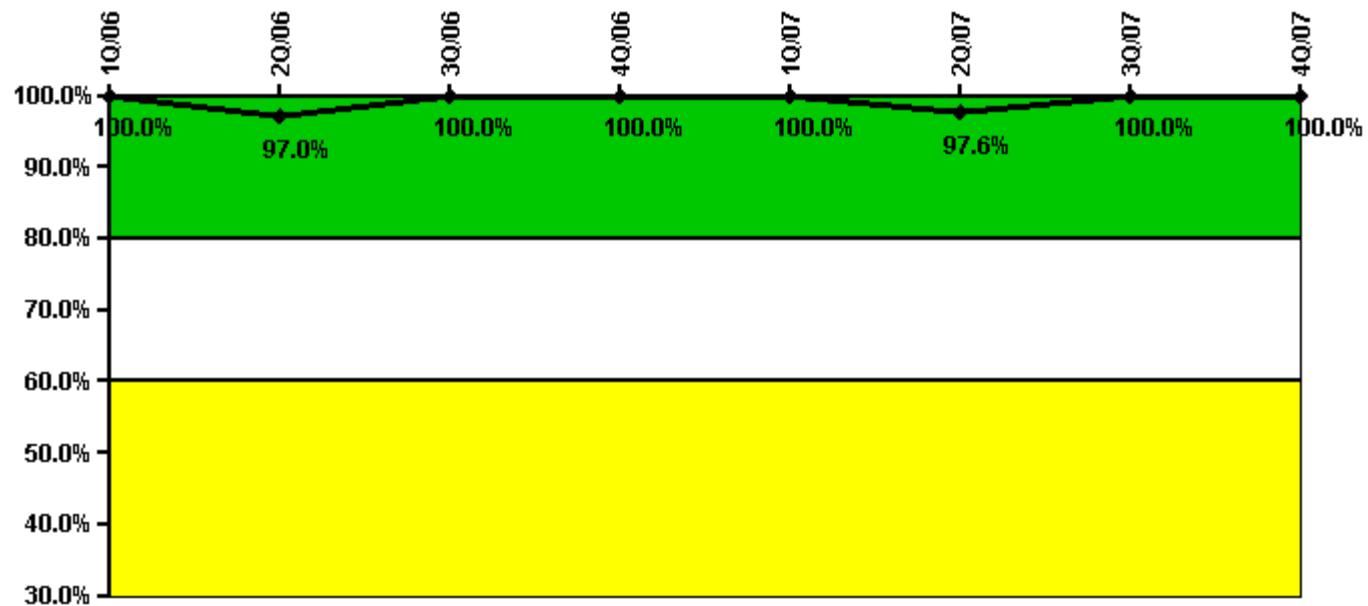
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful opportunities	78.0	84.0	57.0	130.0	113.0	121.0	43.0	51.0
Total opportunities	82.0	85.0	60.0	130.0	114.0	121.0	50.0	51.0
Indicator value	95.8%	96.6%	96.6%	97.1%	97.5%	98.2%	97.6%	97.7%

Licensee Comments: none

ERO Drill Participation



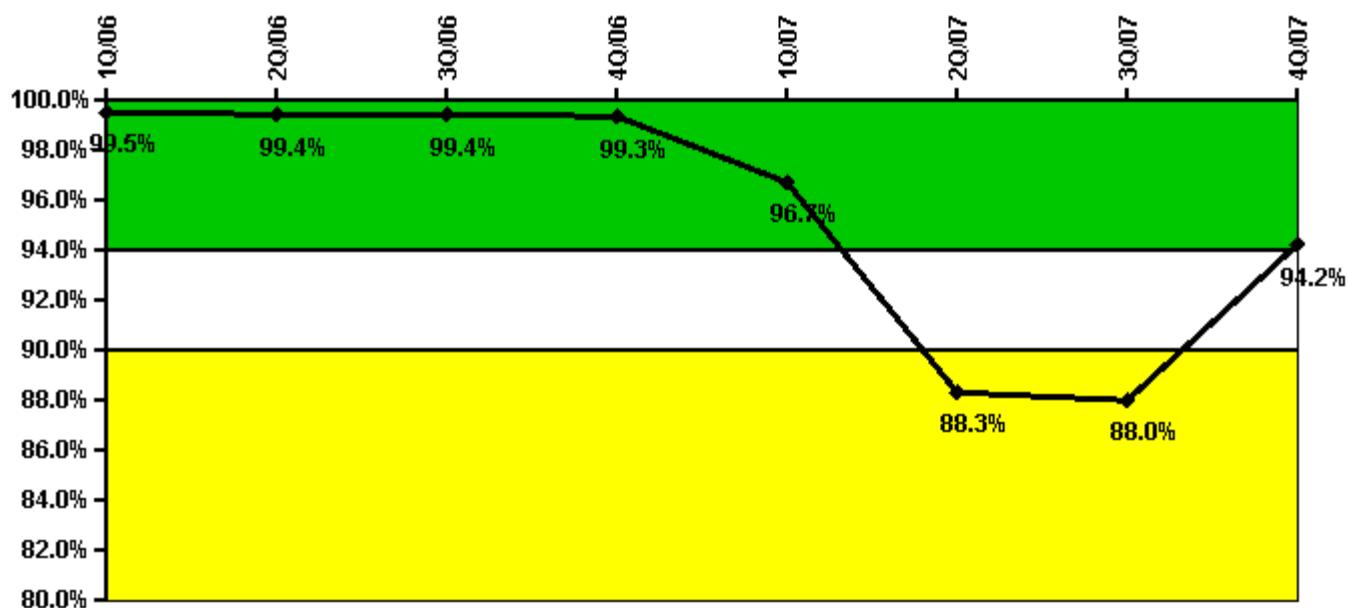
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Participating Key personnel	147.0	159.0	157.0	157.0	161.0	165.0	161.0	160.0
Total Key personnel	147.0	164.0	157.0	157.0	161.0	169.0	161.0	160.0
Indicator value	100.0%	97.0%	100.0%	100.0%	100.0%	97.6%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

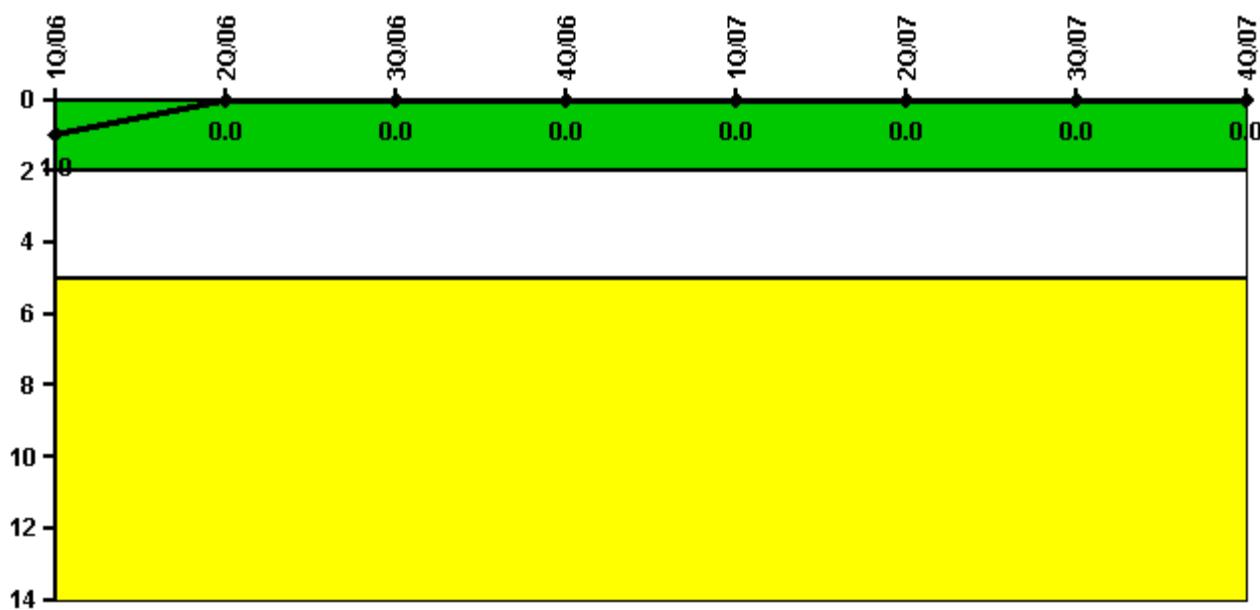
Notes

Alert & Notification System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful siren-tests	210	208	210	194	177	128	197	1108
Total sirens-tests	210	210	210	198	198	197	198	1116
Indicator value	99.5%	99.4%	99.4%	99.3%	96.7%	88.3%	88.0%	94.2%

Licensee Comments:

1Q/07: It was discovered that testing for four ANS sirens located within State Park property was not conducted in accordance with FEMA guidelines and were not valid test opportunities. Therefore, the testing of these sirens are considered missed opportunities and the number of valid test opportunities is being corrected by reducing the total by four tests each month. The number of successful tests is also being corrected with a commensurate reduction as appropriate. These missed opportunities have been captured in the station corrective action program. In addition, during a station verification of siren testing documentation, insufficient data was found to support three individual siren tests performed in 1Q07. The PI is also being corrected to denote these three previously considered successful tests as test failures. These corrections to the PI data reflect extent of condition reviews for the station entry into a degraded cornerstone for emergency planning.

Occupational Exposure Control Effectiveness



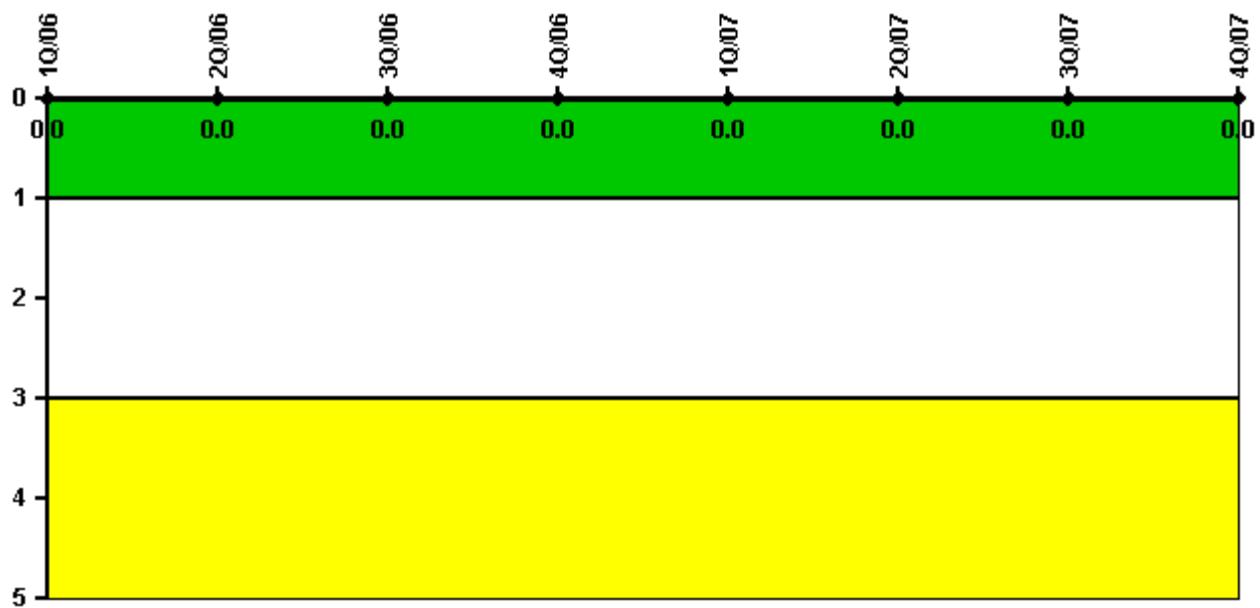
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	0						

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Physical Protection](#) information not publicly available.

1Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

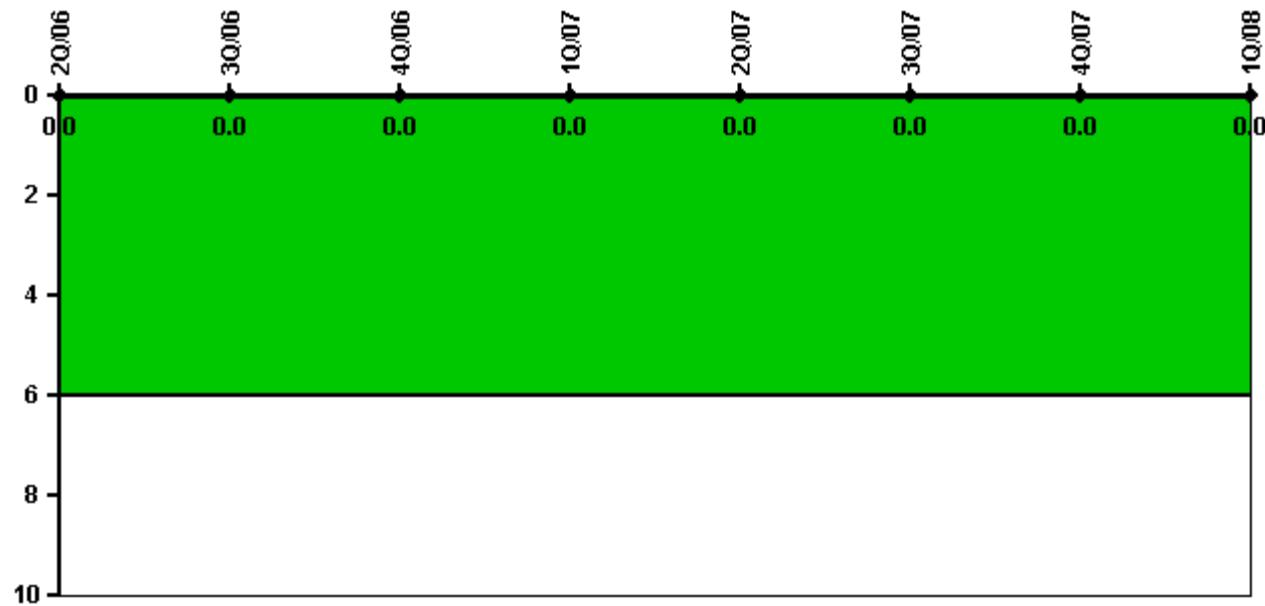
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1331.7	2208.0	2209.0	2159.0	2184.0	1824.0	1340.3	2183.0
Indicator value	0.9	0.9	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



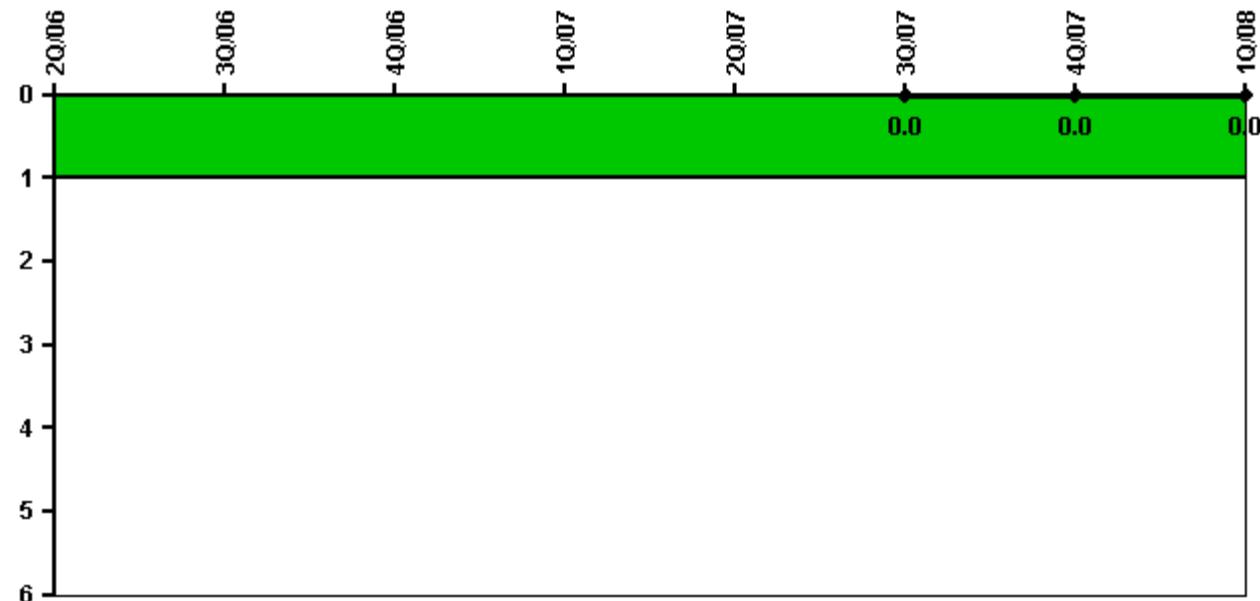
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1331.7	2208.0	2209.0	2159.0	2184.0	1824.0	1340.3	2183.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



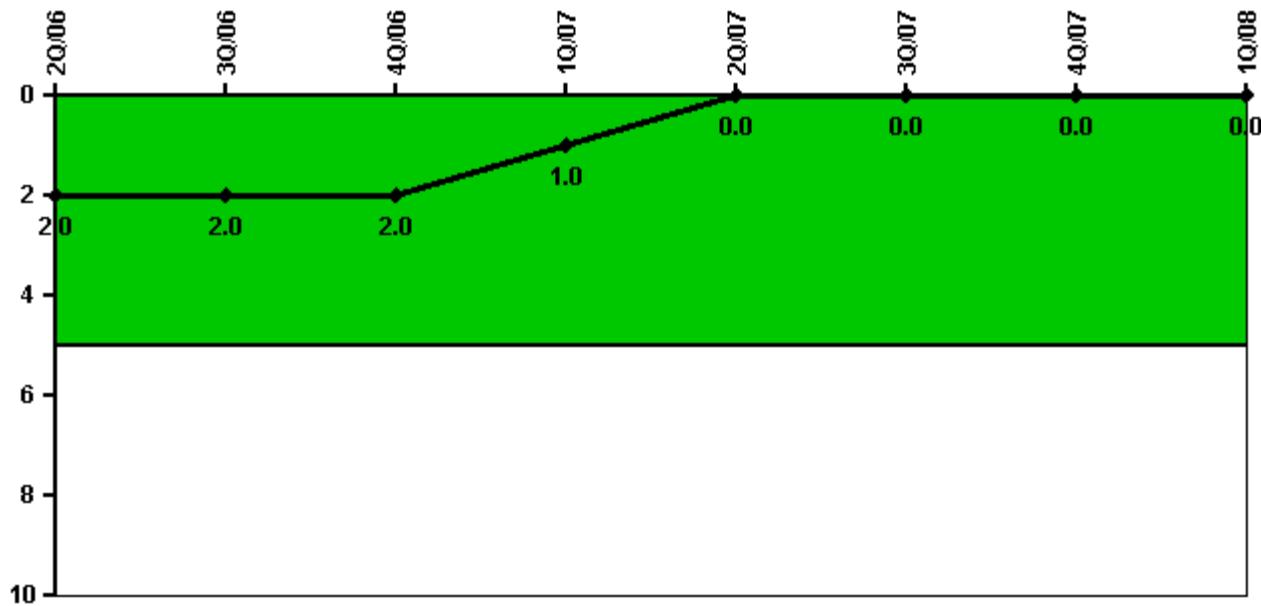
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Scrams with complications			0	0	0	0	0	0
Indicator value						0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



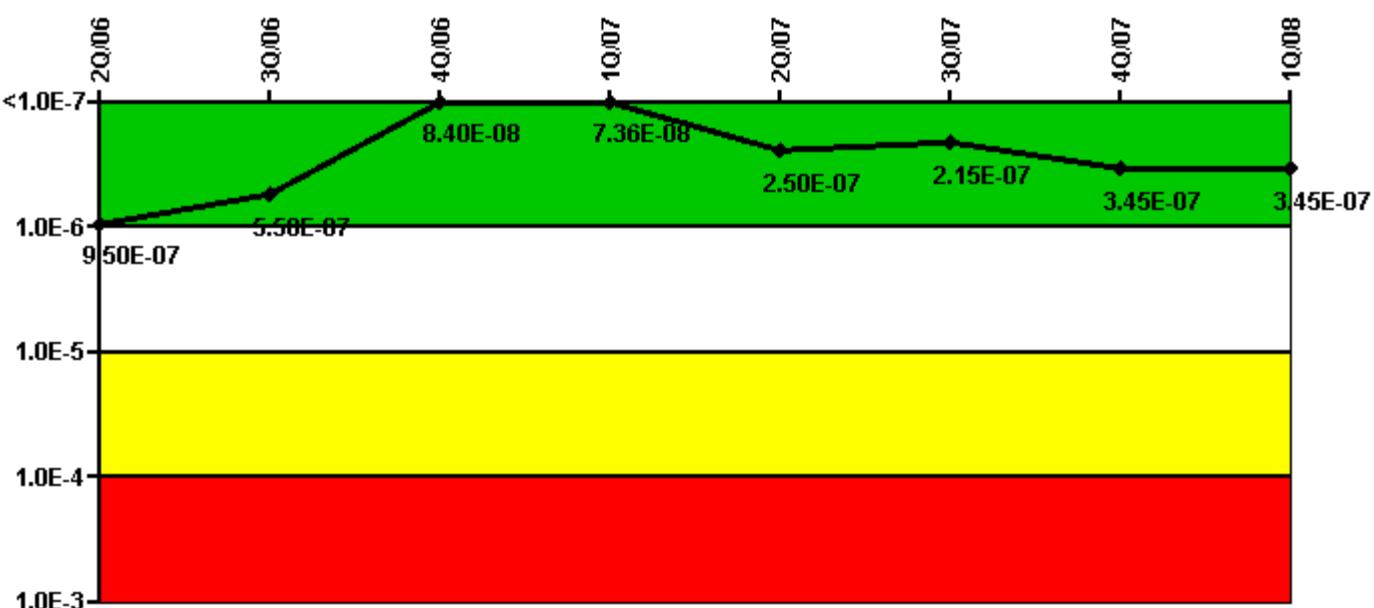
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Safety System Functional Failures	1	0	0	0	0	0	0	0
Indicator value	2	2	2	1	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



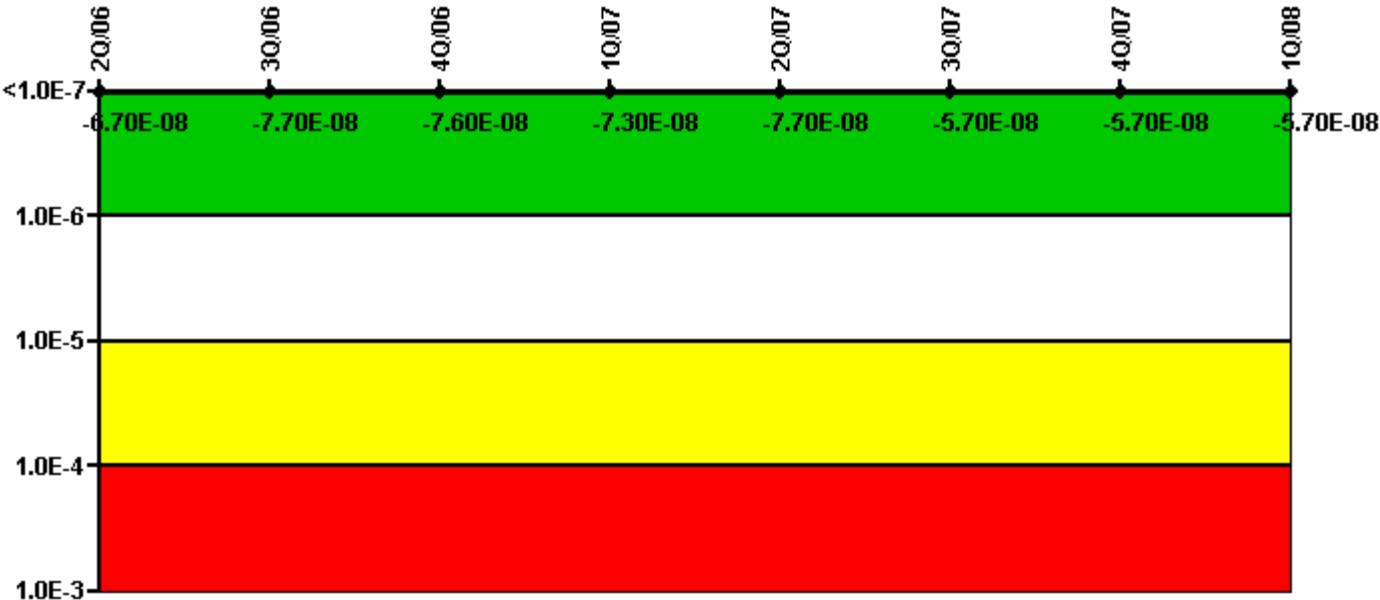
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (Δ CDF)	1.50E-07	9.80E-08	1.20E-08	1.60E-09	1.00E-08	5.40E-09	5.00E-09	4.90E-09
URI (Δ CDF)	8.00E-07	4.60E-07	7.20E-08	7.20E-08	2.40E-07	2.10E-07	3.40E-07	3.40E-07
PLE	NO							
Indicator value	9.50E-07	5.58E-07	8.40E-08	7.36E-08	2.50E-07	2.15E-07	3.45E-07	3.45E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



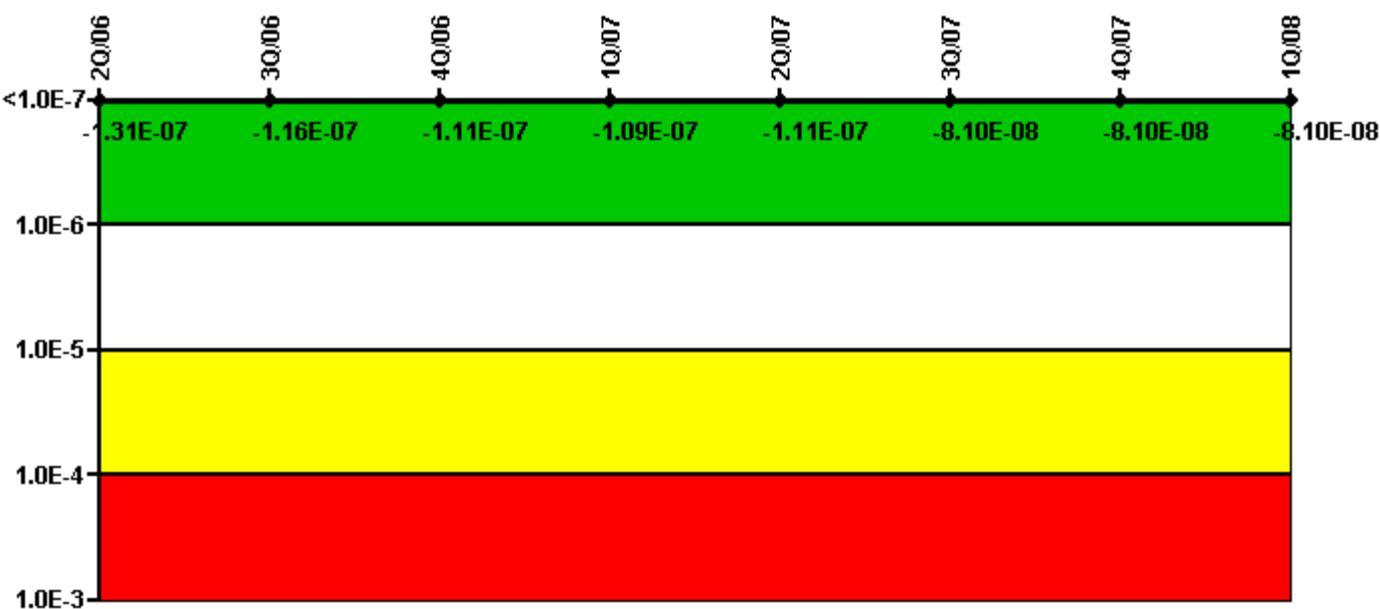
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (Δ CDF)	-2.20E-08	-2.90E-08	-3.40E-08	-3.10E-08	-3.50E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (Δ CDF)	-4.50E-08	-4.80E-08	-4.20E-08	-4.20E-08	-4.20E-08	-3.50E-08	-3.50E-08	-3.50E-08
PLE	NO							
Indicator value	-6.70E-08	-7.70E-08	-7.60E-08	-7.30E-08	-7.70E-08	-5.70E-08	-5.70E-08	-5.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



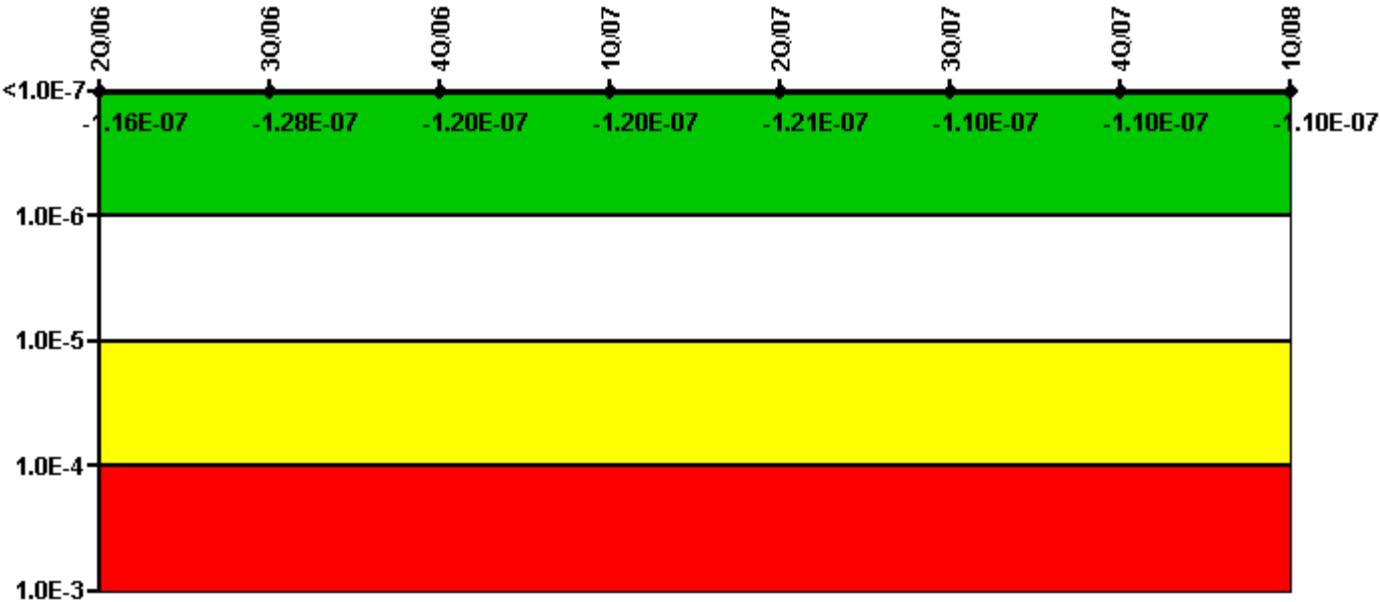
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (Δ CDF)	-4.20E-08	-2.30E-08	-3.00E-08	-3.00E-08	-3.40E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (Δ CDF)	-8.90E-08	-9.30E-08	-8.10E-08	-7.90E-08	-7.70E-08	-5.90E-08	-5.90E-08	-5.90E-08
PLE	NO							
Indicator value	-1.31E-07	-1.16E-07	-1.11E-07	-1.09E-07	-1.11E-07	-8.10E-08	-8.10E-08	-8.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



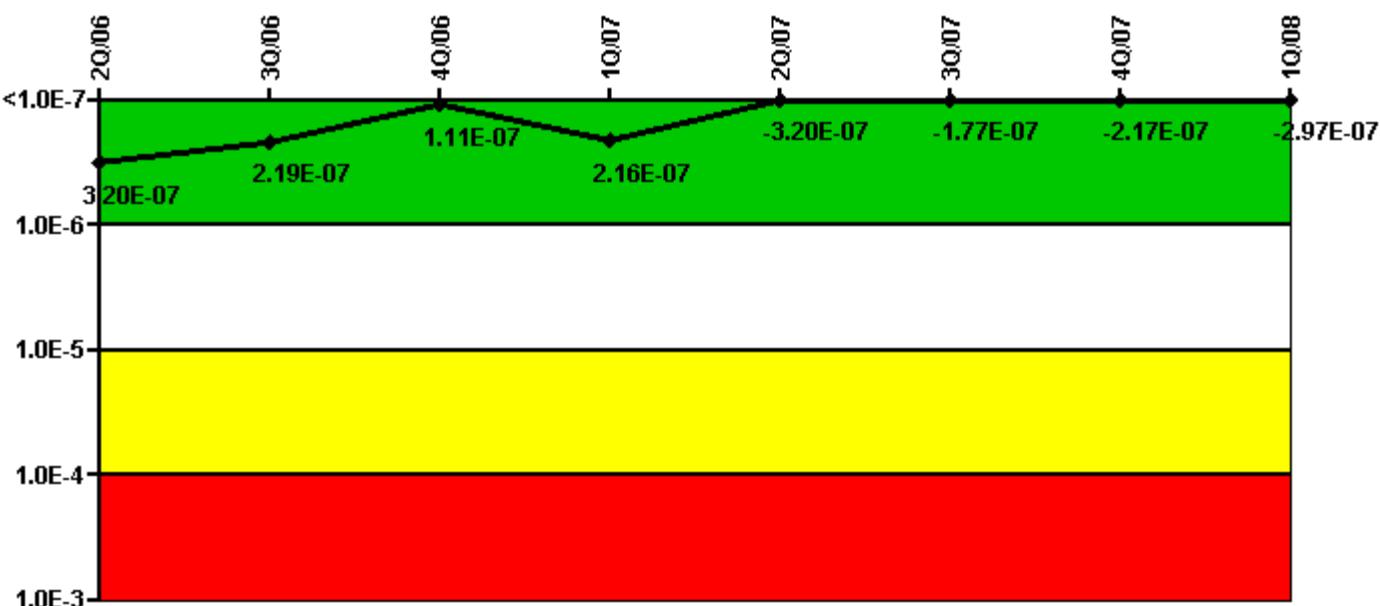
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (Δ CDF)	4.20E-09	1.70E-09	-2.40E-10	-2.60E-10	-8.40E-10	-2.00E-10	-2.00E-10	-2.00E-10
URI (Δ CDF)	-1.20E-07	-1.30E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.10E-07	-1.10E-07	-1.10E-07
PLE	NO							
Indicator value	-1.16E-07	-1.28E-07	-1.20E-07	-1.20E-07	-1.21E-07	-1.10E-07	-1.10E-07	-1.10E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



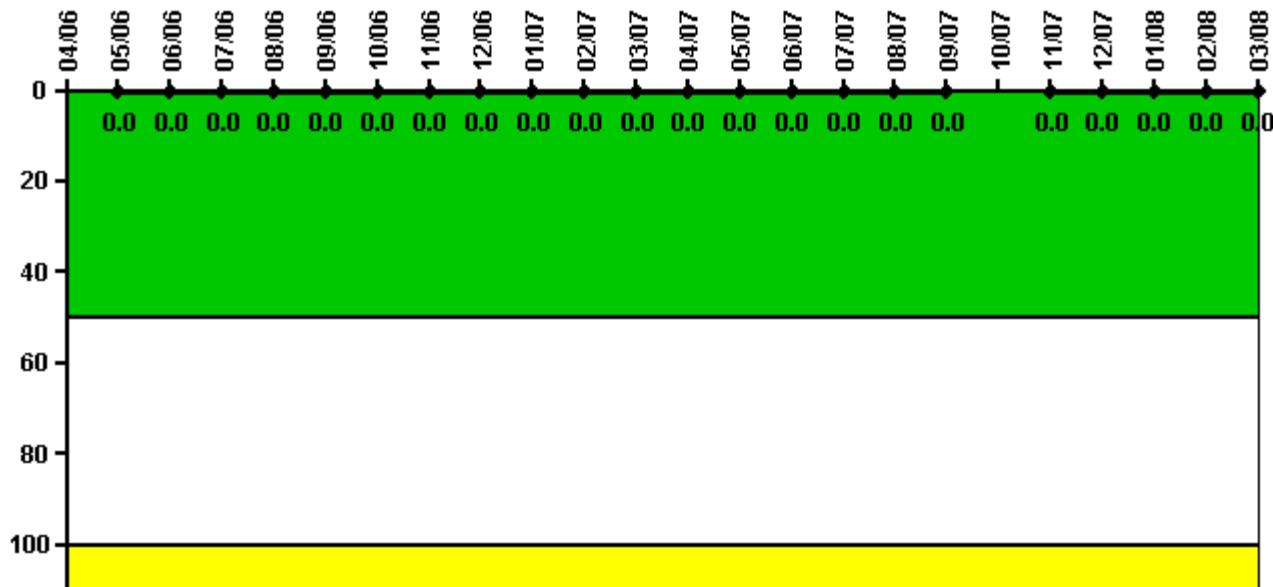
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (Δ CDF)	1.60E-07	2.90E-08	-5.90E-08	4.60E-08	-1.10E-07	-1.00E-07	-1.40E-07	-2.20E-07
URI (Δ CDF)	1.60E-07	1.90E-07	1.70E-07	1.70E-07	-2.10E-07	-7.70E-08	-7.70E-08	-7.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.20E-07	2.19E-07	1.11E-07	2.16E-07	-3.20E-07	-1.77E-07	-2.17E-07	-2.97E-07

Licensee Comments: none

Reactor Coolant System Activity



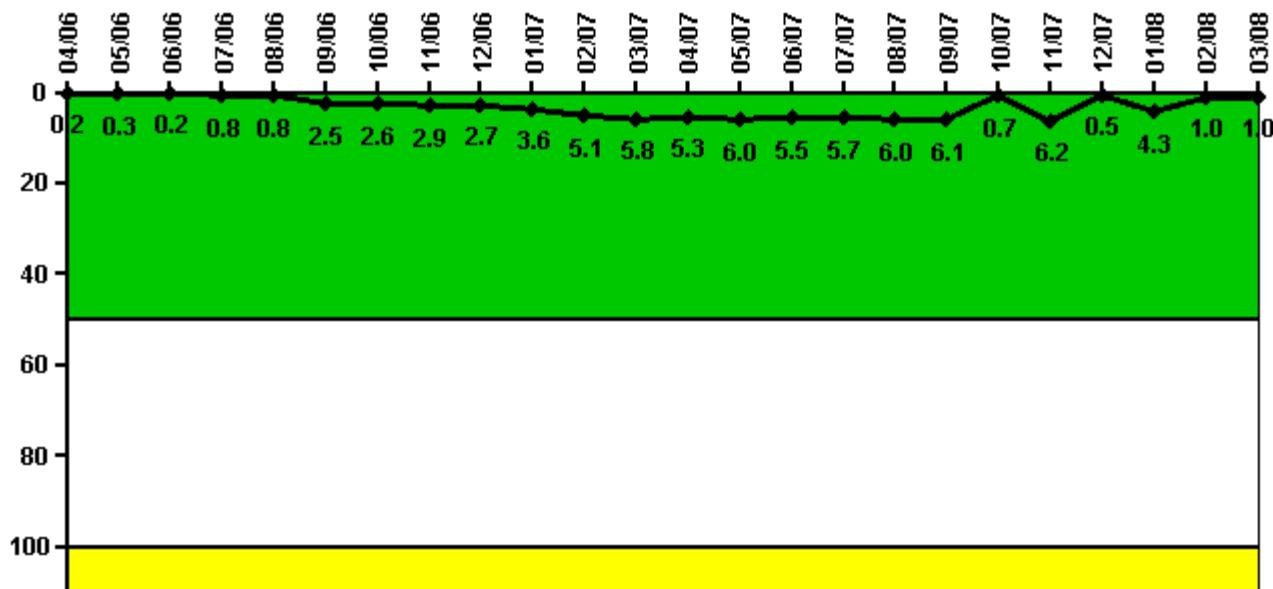
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum activity	N/A	0.000121	0.000127	0.000132	0.000142	0.000168	0.000191	0.000152	0.000150	0.000148	0.000154	0.000177
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum activity	0.000228	0.000223	0.000219	0.000216	0.000295	0.000240	N/A	0.000114	0.000127	0.000120	0.000118	0.000141
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	N/A	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



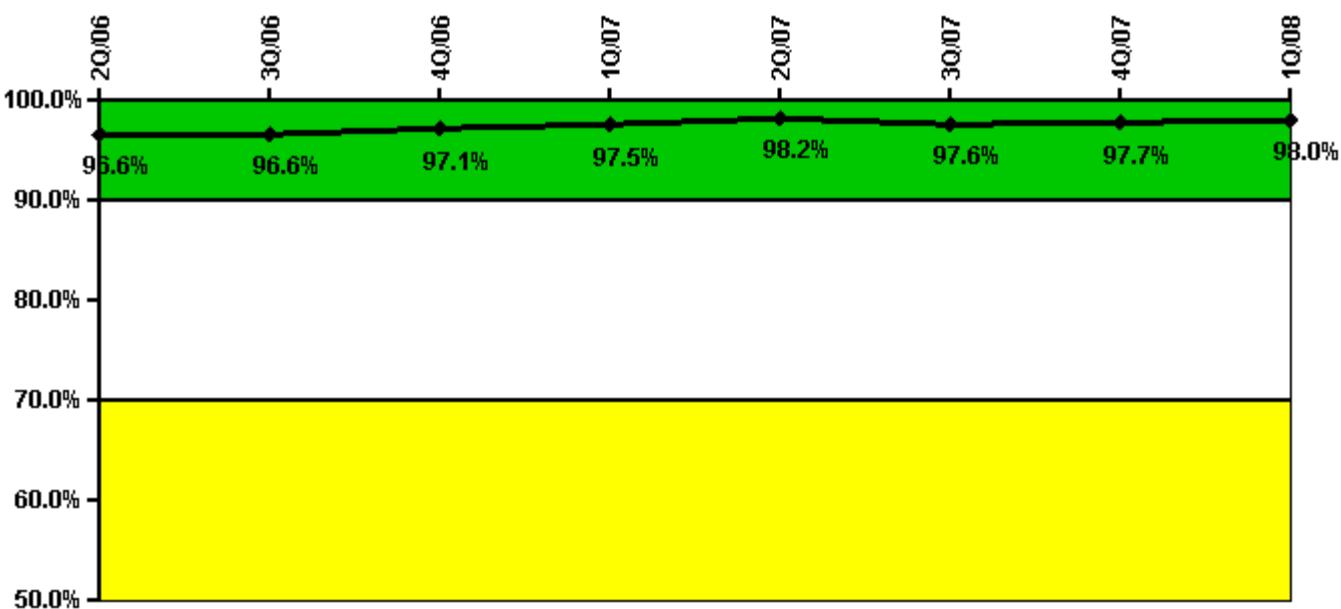
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum leakage	0.021	0.033	0.022	0.086	0.090	0.280	0.289	0.323	0.299	0.391	0.560	0.638
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.2	0.3	0.2	0.8	0.8	2.5	2.6	2.9	2.7	3.6	5.1	5.8
Reactor Coolant System Leakage	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum leakage	0.586	0.656	0.603	0.626	0.657	0.673	0.075	0.677	0.057	0.475	0.109	0.111
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	5.3	6.0	5.5	5.7	6.0	6.1	0.7	6.2	0.5	4.3	1.0	1.0

Licensee Comments: none

Drill/Exercise Performance



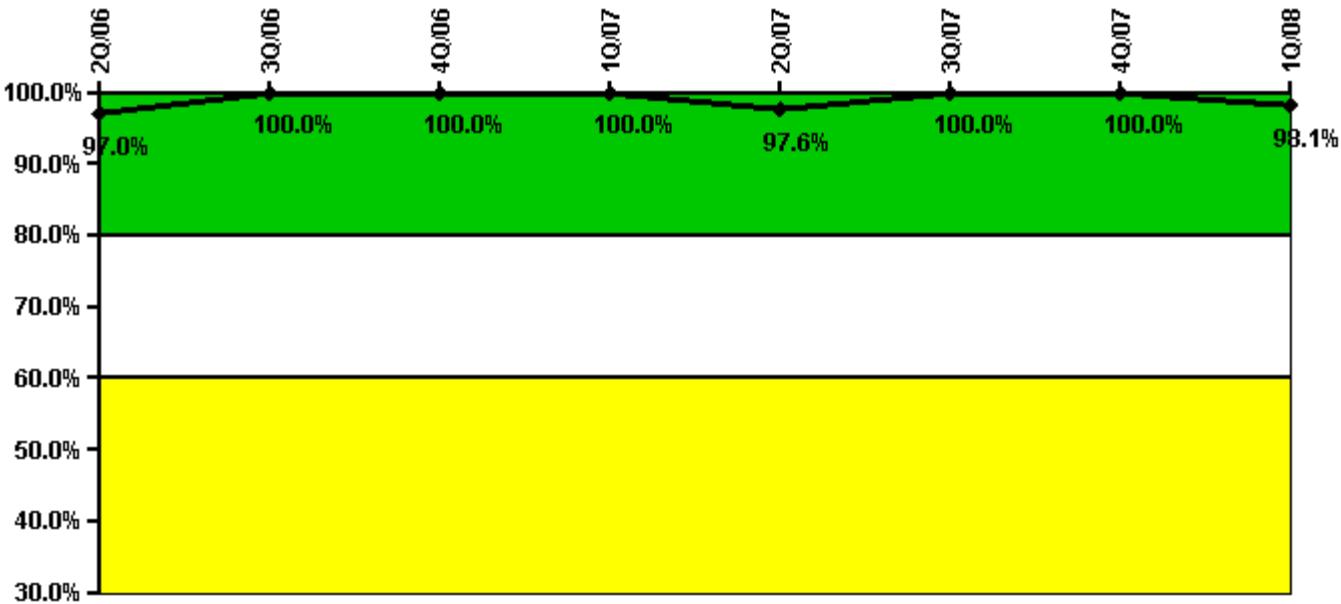
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful opportunities	84.0	57.0	130.0	113.0	121.0	43.0	51.0	87.0
Total opportunities	85.0	60.0	130.0	114.0	121.0	50.0	51.0	89.0
Indicator value	96.6%	96.6%	97.1%	97.5%	98.2%	97.6%	97.7%	98.0%

Licensee Comments: none

ERO Drill Participation



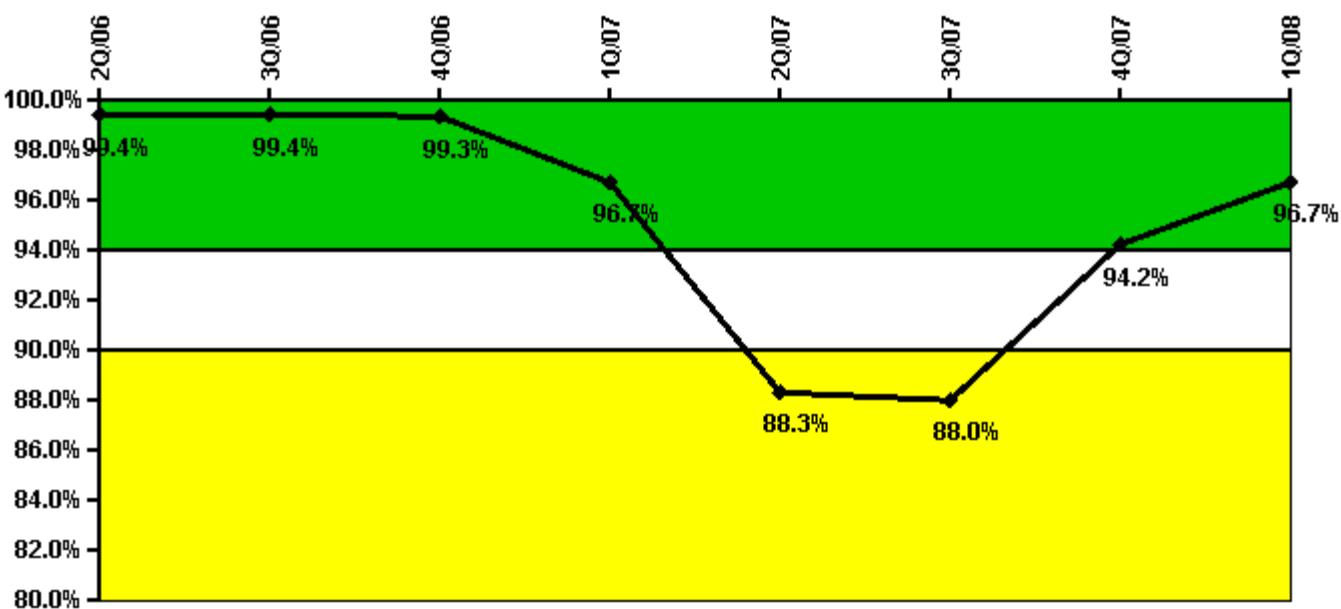
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Participating Key personnel	159.0	157.0	157.0	161.0	165.0	161.0	160.0	151.0
Total Key personnel	164.0	157.0	157.0	161.0	169.0	161.0	160.0	154.0
Indicator value	97.0%	100.0%	100.0%	100.0%	97.6%	100.0%	100.0%	98.1%

Licensee Comments: none

Alert & Notification System



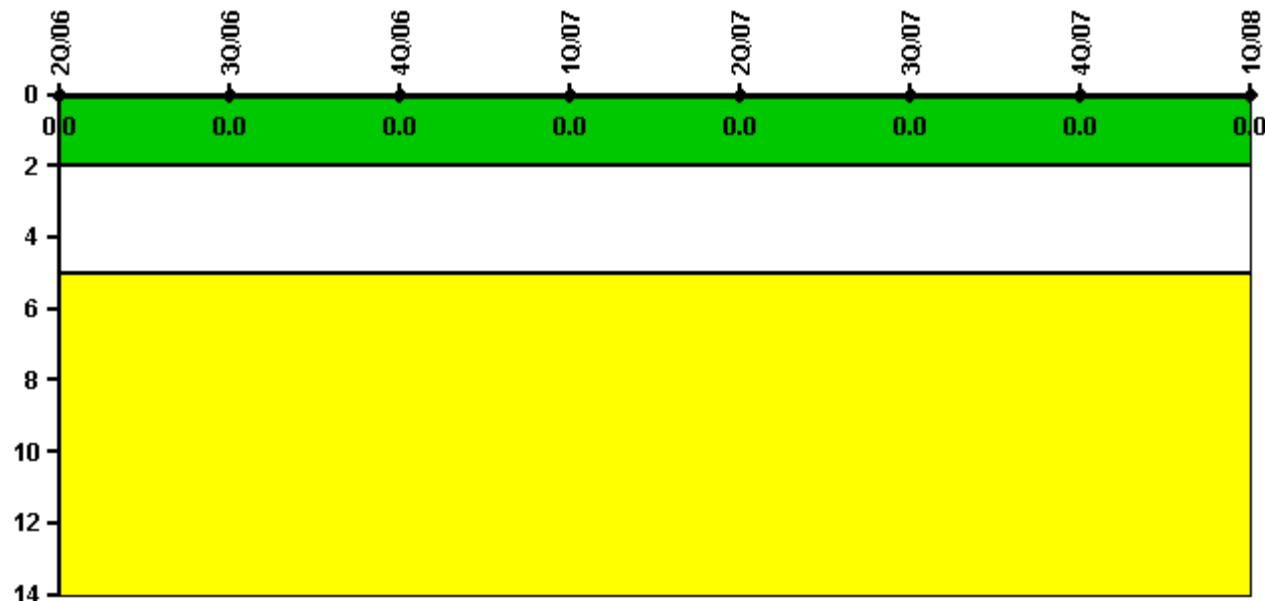
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful siren-tests	208	210	194	177	128	197	1108	1112
Total sirens-tests	210	210	198	198	197	198	1116	1120
Indicator value	99.4%	99.4%	99.3%	96.7%	88.3%	88.0%	94.2%	96.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



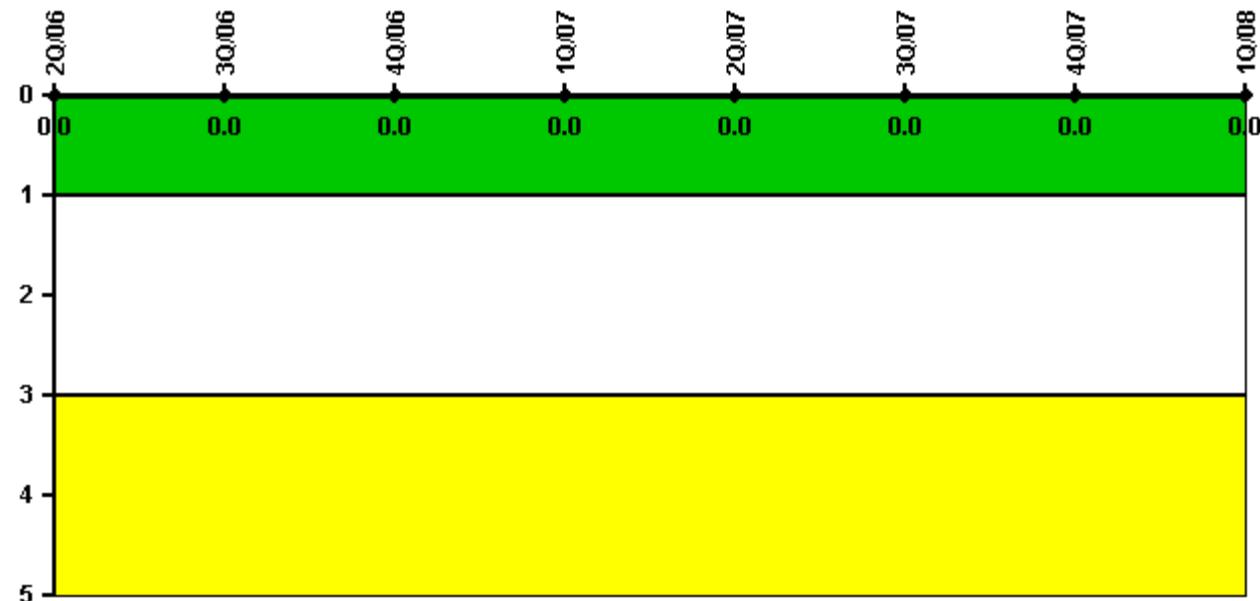
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Physical Protection](#) information not publicly available.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: April 30, 2008

2Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

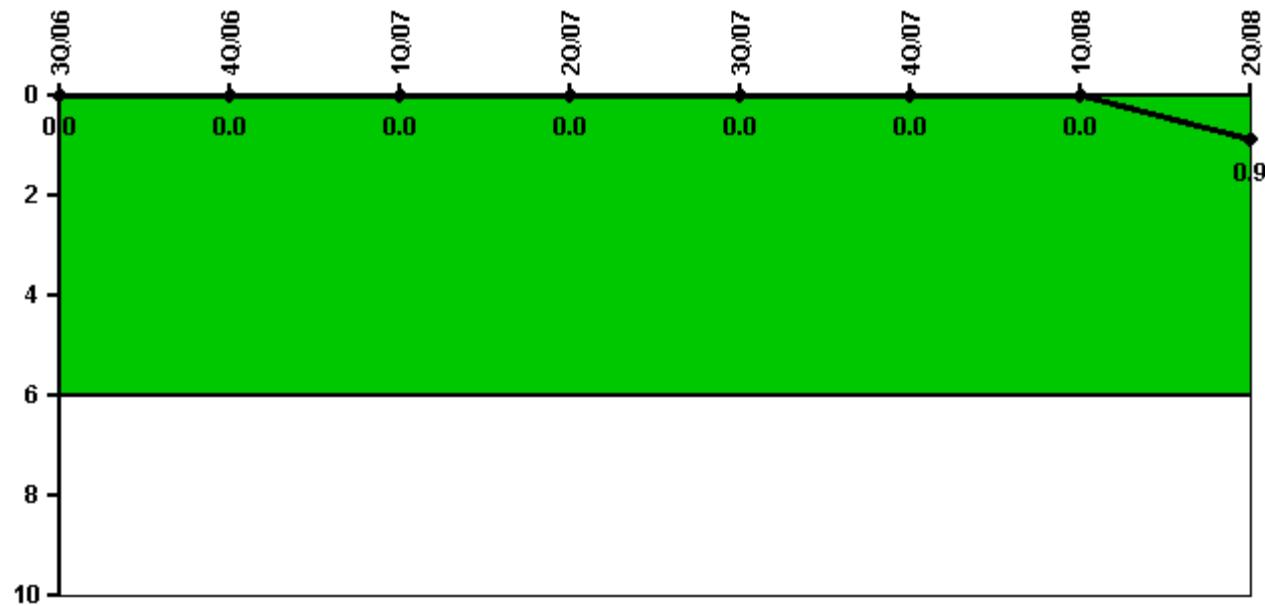
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	1824.0	1340.3	2183.0	2184.0
Indicator value	0.9	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



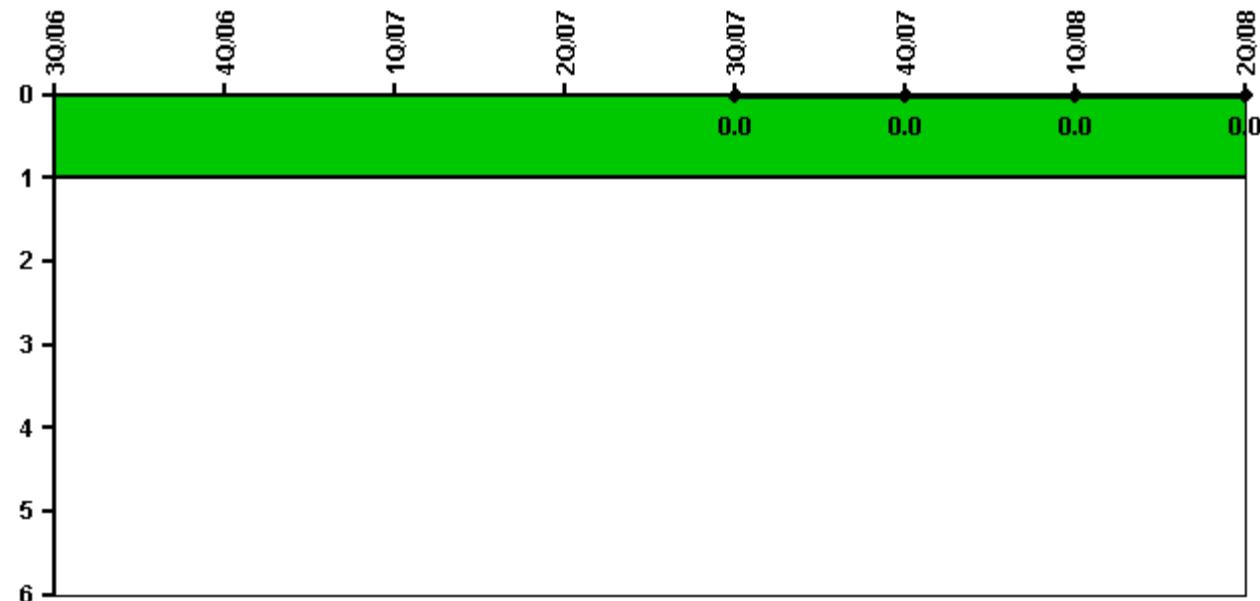
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2208.0	2209.0	2159.0	2184.0	1824.0	1340.3	2183.0	2184.0
Indicator value	0	0	0	0	0	0	0	0.9

Licensee Comments: none

Unplanned Scrams with Complications



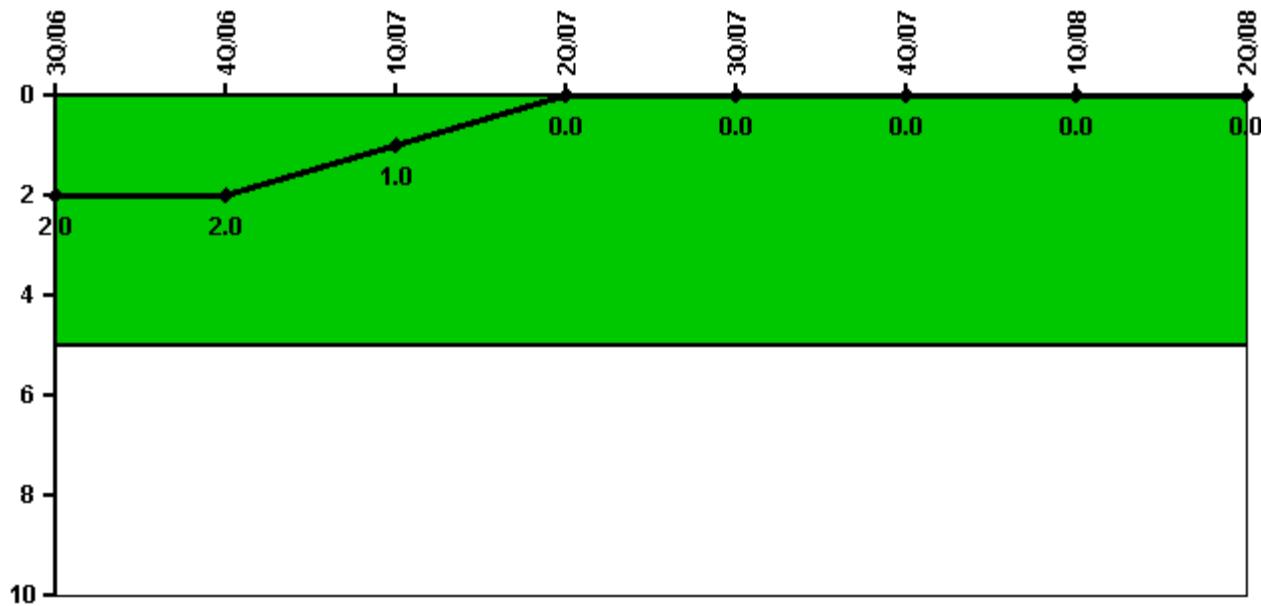
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Scrams with complications		0	0	0	0	0	0	0
Indicator value					0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



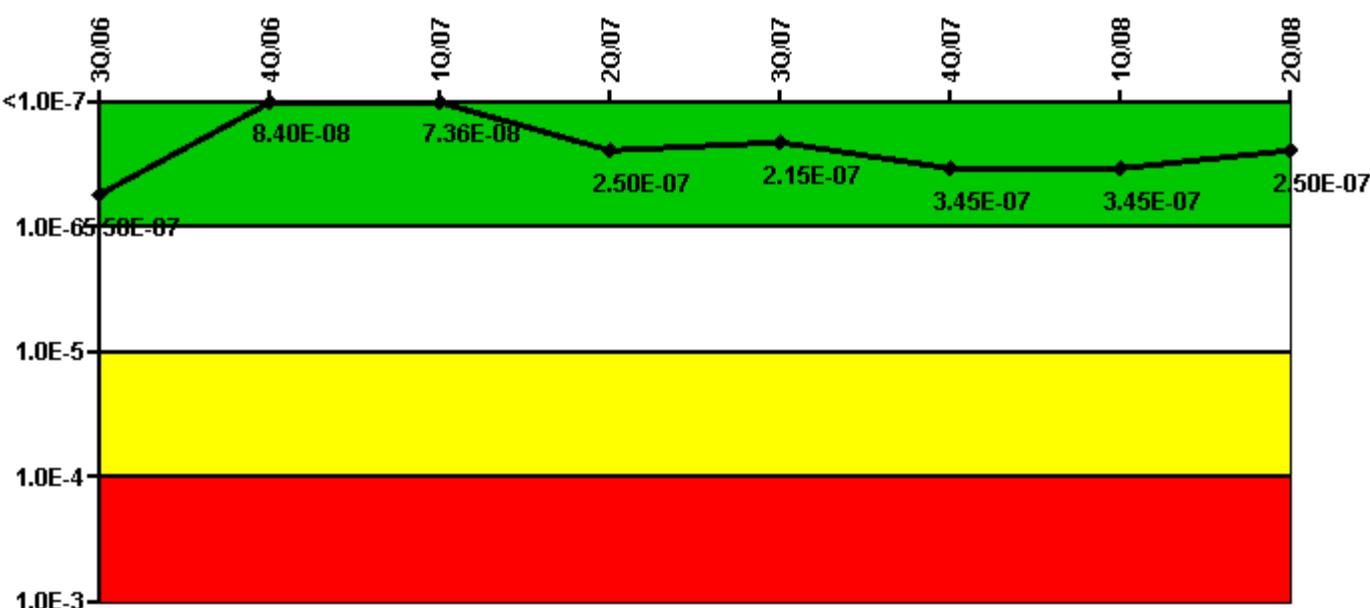
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	2	2	1	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



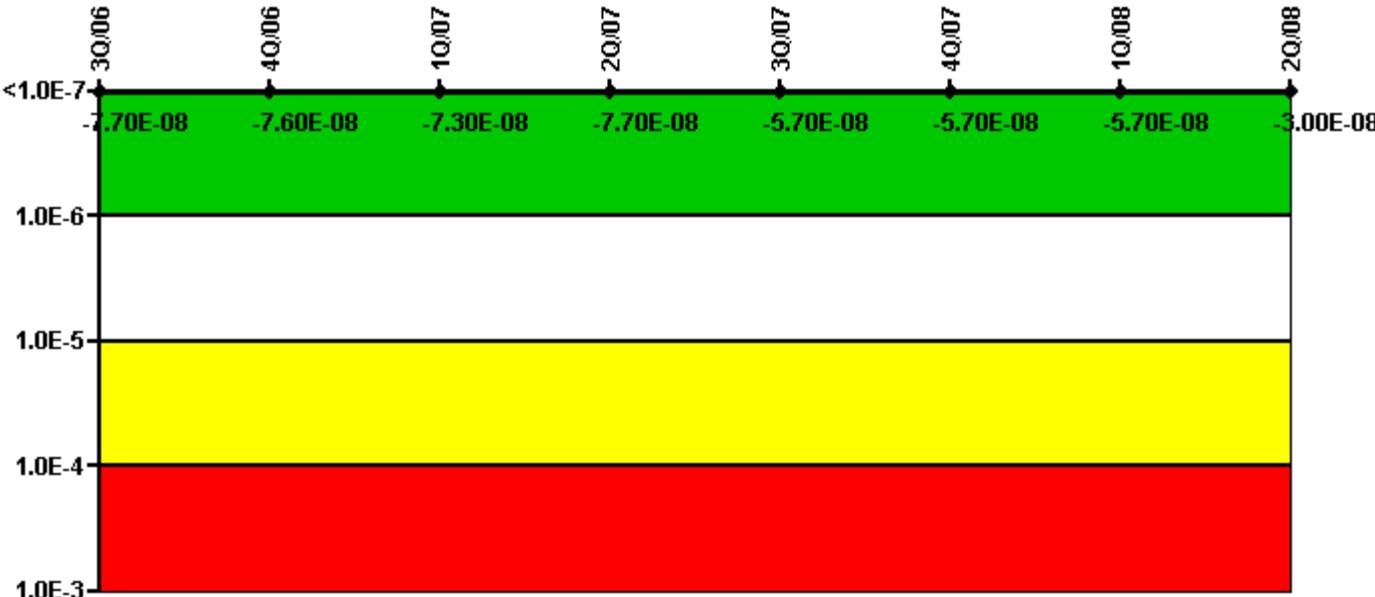
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (Δ CDF)	9.80E-08	1.20E-08	1.60E-09	1.00E-08	5.40E-09	5.00E-09	4.90E-09	-2.80E-11
URI (Δ CDF)	4.60E-07	7.20E-08	7.20E-08	2.40E-07	2.10E-07	3.40E-07	3.40E-07	2.50E-07
PLE	NO							
Indicator value	5.58E-07	8.40E-08	7.36E-08	2.50E-07	2.15E-07	3.45E-07	3.45E-07	2.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



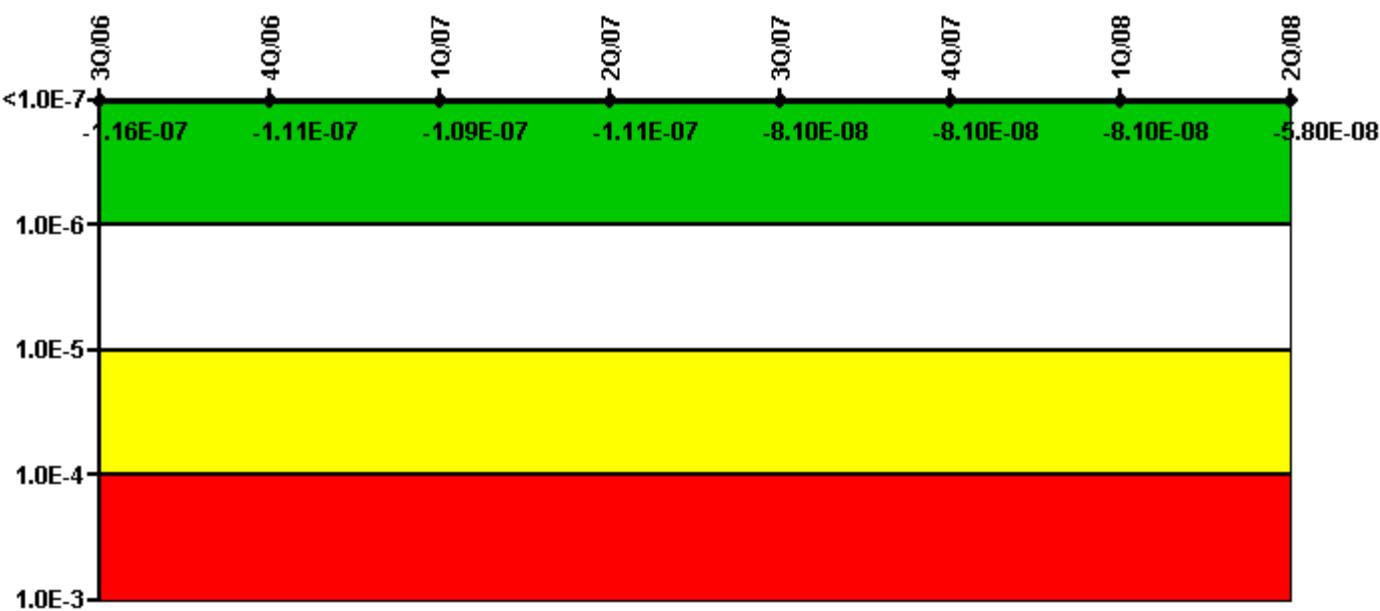
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (Δ CDF)	-2.90E-08	-3.40E-08	-3.10E-08	-3.50E-08	-2.20E-08	-2.20E-08	-2.20E-08	-4.40E-11
URI (Δ CDF)	-4.80E-08	-4.20E-08	-4.20E-08	-4.20E-08	-3.50E-08	-3.50E-08	-3.50E-08	-3.00E-08
PLE	NO							
Indicator value	-7.70E-08	-7.60E-08	-7.30E-08	-7.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-3.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



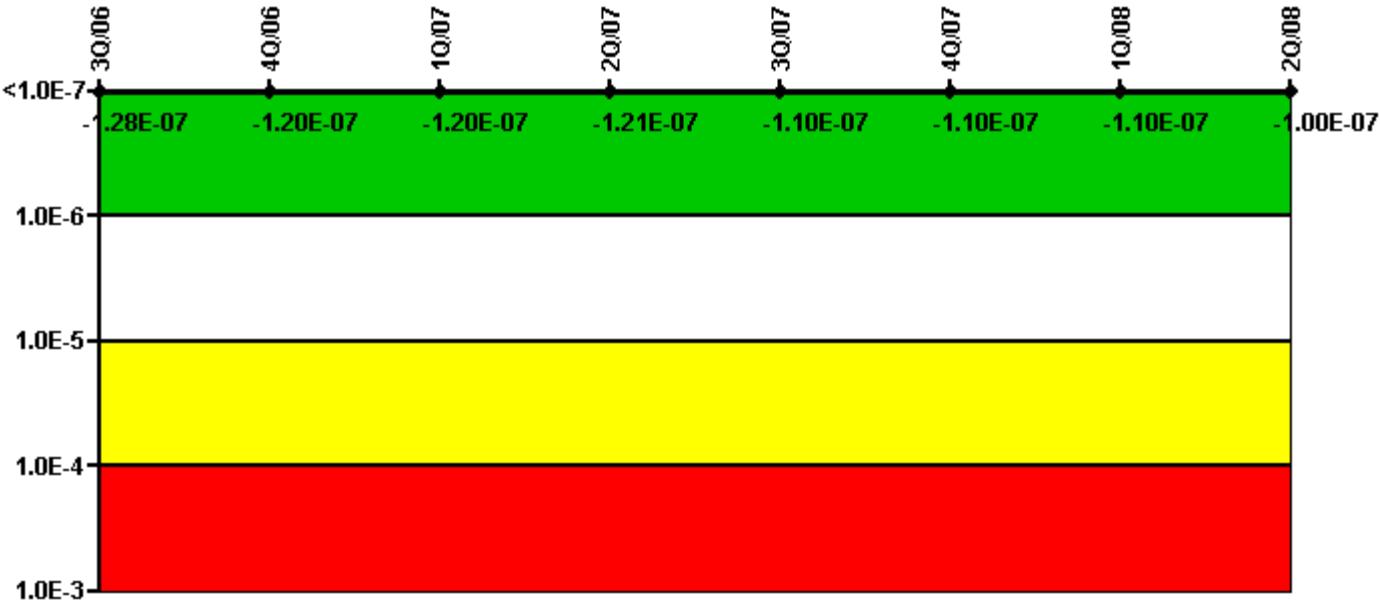
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (Δ CDF)	-2.30E-08	-3.00E-08	-3.00E-08	-3.40E-08	-2.20E-08	-2.20E-08	-2.20E-08	-4.00E-11
URI (Δ CDF)	-9.30E-08	-8.10E-08	-7.90E-08	-7.70E-08	-5.90E-08	-5.90E-08	-5.90E-08	-5.80E-08
PLE	NO							
Indicator value	-1.16E-07	-1.11E-07	-1.09E-07	-1.11E-07	-8.10E-08	-8.10E-08	-8.10E-08	-5.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



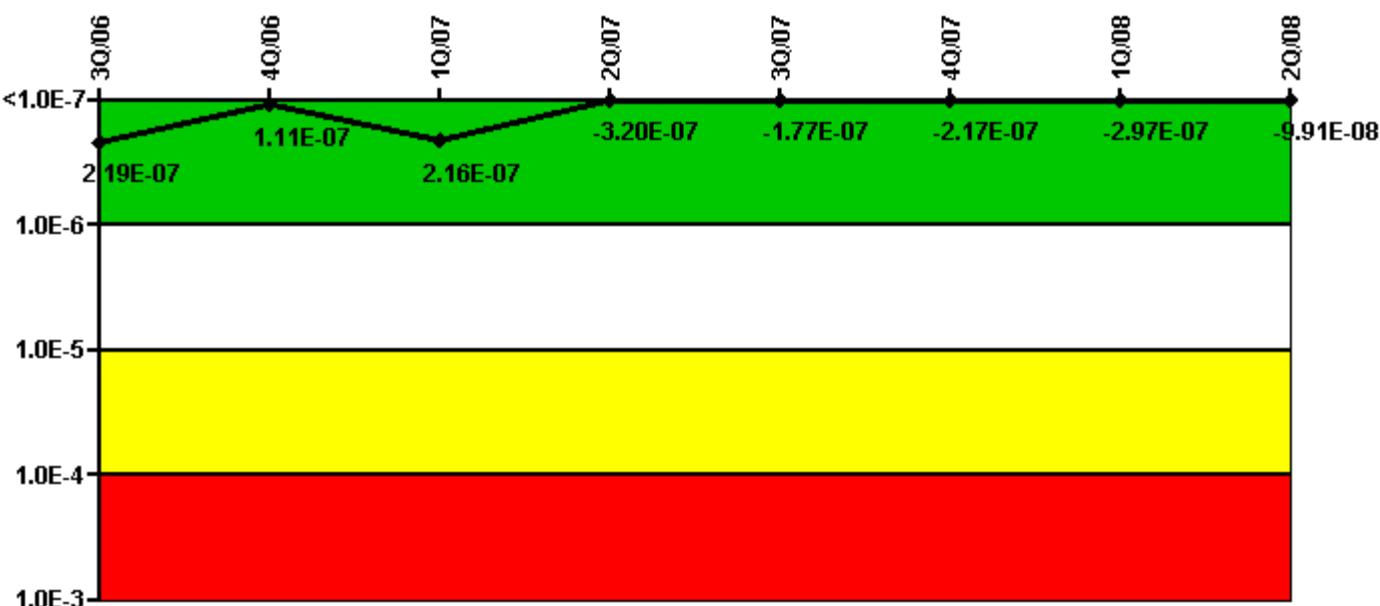
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (Δ CDF)	1.70E-09	-2.40E-10	-2.60E-10	-8.40E-10	-2.00E-10	-2.00E-10	-2.00E-10	-1.50E-13
URI (Δ CDF)	-1.30E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.00E-07
PLE	NO							
Indicator value	-1.28E-07	-1.20E-07	-1.20E-07	-1.21E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.00E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



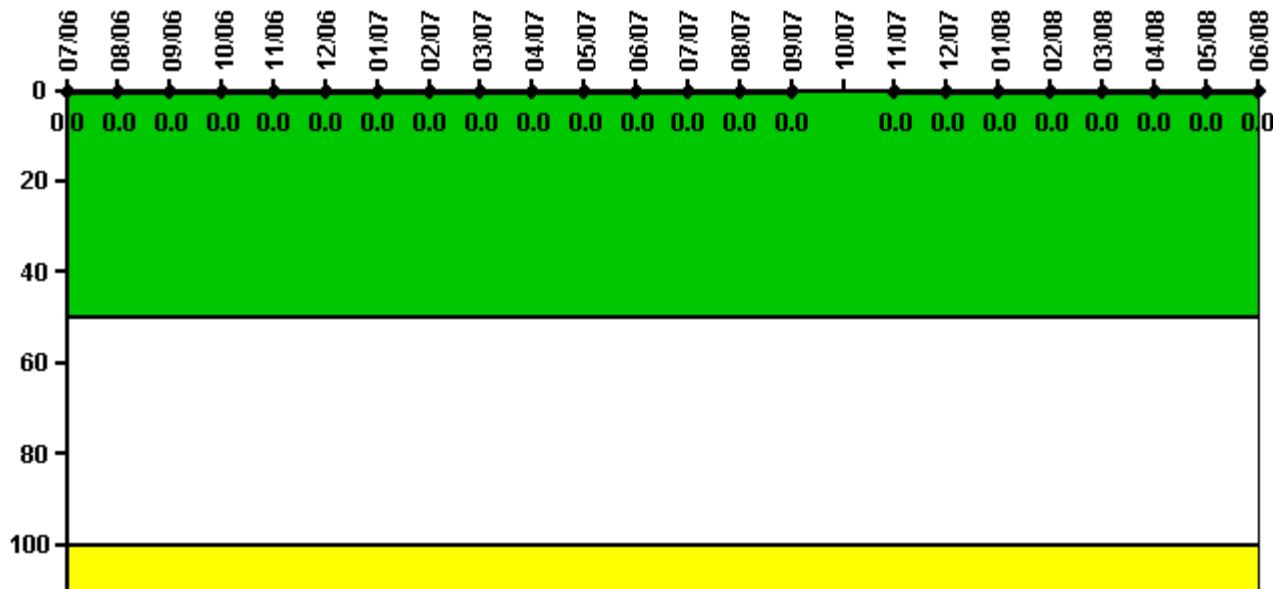
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	2.90E-08	-5.90E-08	4.60E-08	-1.10E-07	-1.00E-07	-1.40E-07	-2.20E-07	-7.80E-11
URI (ΔCDF)	1.90E-07	1.70E-07	1.70E-07	-2.10E-07	-7.70E-08	-7.70E-08	-7.70E-08	-9.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.19E-07	1.11E-07	2.16E-07	-3.20E-07	-1.77E-07	-2.17E-07	-2.97E-07	-9.91E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

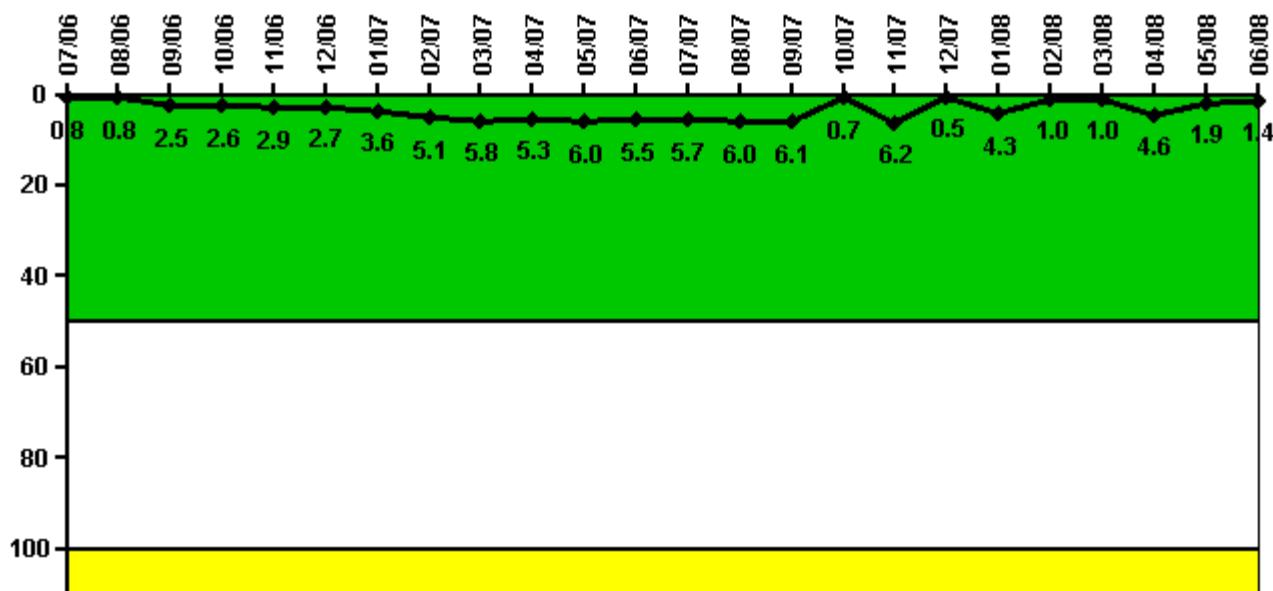
Notes

Reactor Coolant System Activity	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum activity	0.000132	0.000142	0.000168	0.000191	0.000152	0.000150	0.000148	0.000154	0.000177	0.000228	0.000223	0.000219
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum activity	0.000216	0.000295	0.000240	N/A	0.000114	0.000127	0.000120	0.000118	0.000141	0.000138	0.000138	0.000157
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	N/A	0	0	0	0	0	0	0	0

Licensee Comments:

6/08: Technical Specification limit on I-131 activity was administratively reduced to 0.167 as of 4th quarter 2007.

Reactor Coolant System Leakage



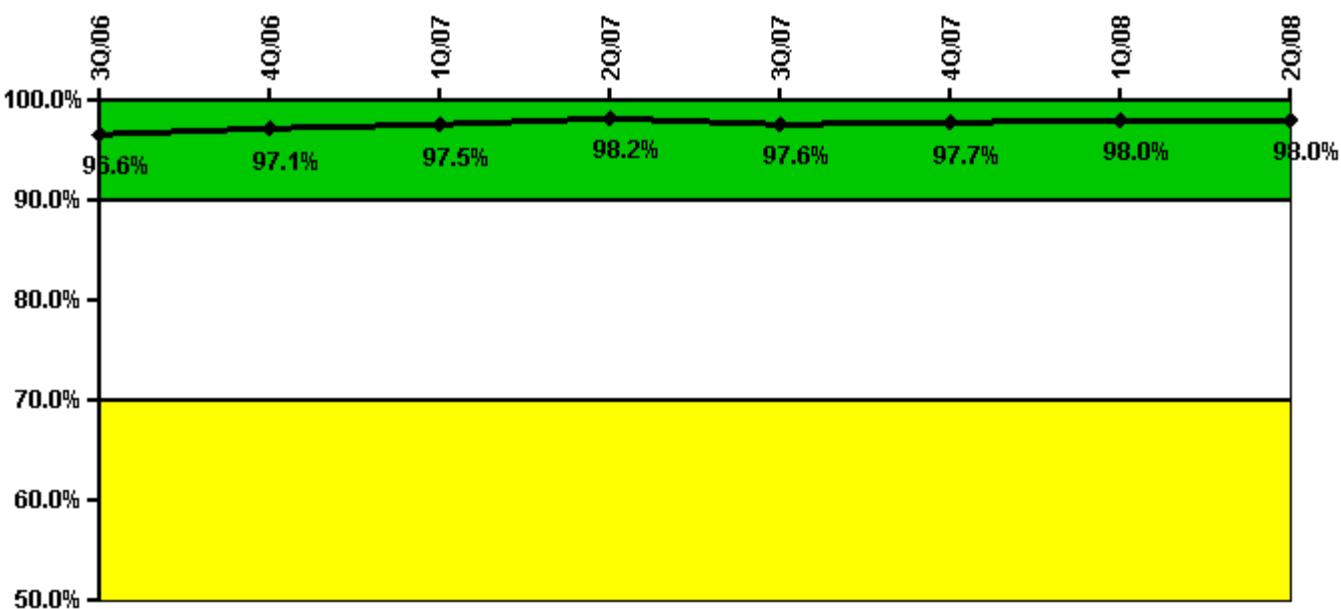
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum leakage	0.086	0.090	0.280	0.289	0.323	0.299	0.391	0.560	0.638	0.586	0.656	0.603
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.8	0.8	2.5	2.6	2.9	2.7	3.6	5.1	5.8	5.3	6.0	5.5
Reactor Coolant System Leakage	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum leakage	0.626	0.657	0.673	0.075	0.677	0.057	0.475	0.109	0.111	0.501	0.210	0.158
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	5.7	6.0	6.1	0.7	6.2	0.5	4.3	1.0	1.0	4.6	1.9	1.4

Licensee Comments: none

Drill/Exercise Performance



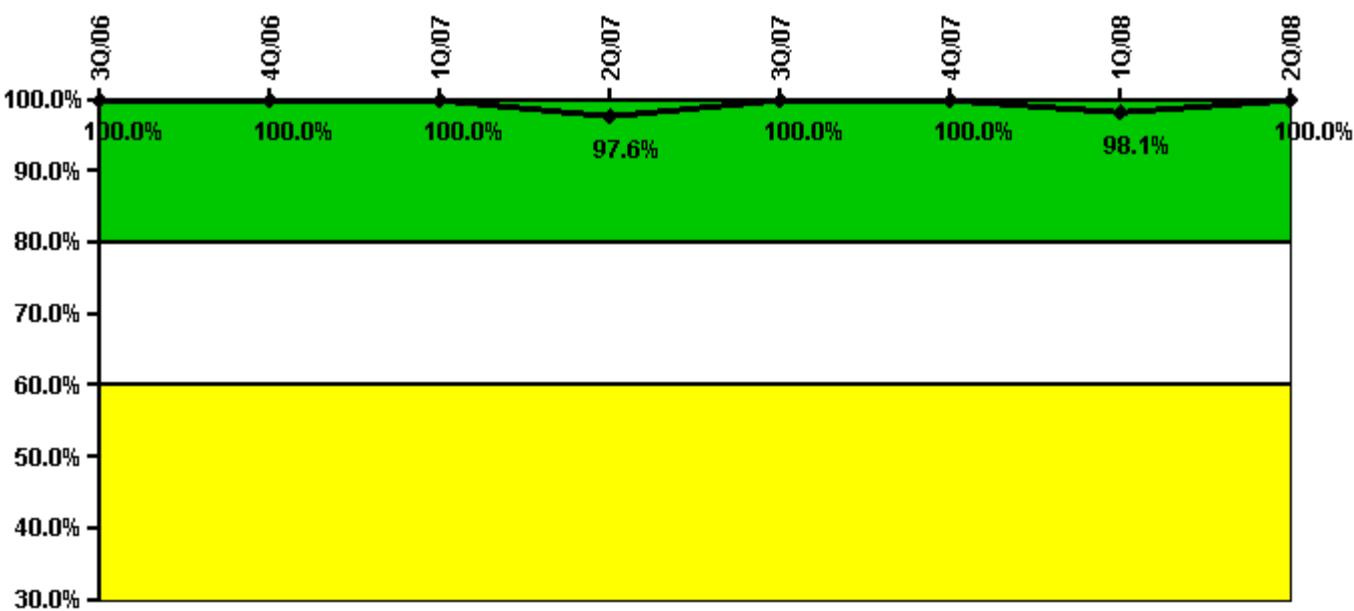
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful opportunities	57.0	130.0	113.0	121.0	43.0	51.0	87.0	27.0
Total opportunities	60.0	130.0	114.0	121.0	50.0	51.0	89.0	27.0
Indicator value	96.6%	97.1%	97.5%	98.2%	97.6%	97.7%	98.0%	98.0%

Licensee Comments: none

ERO Drill Participation



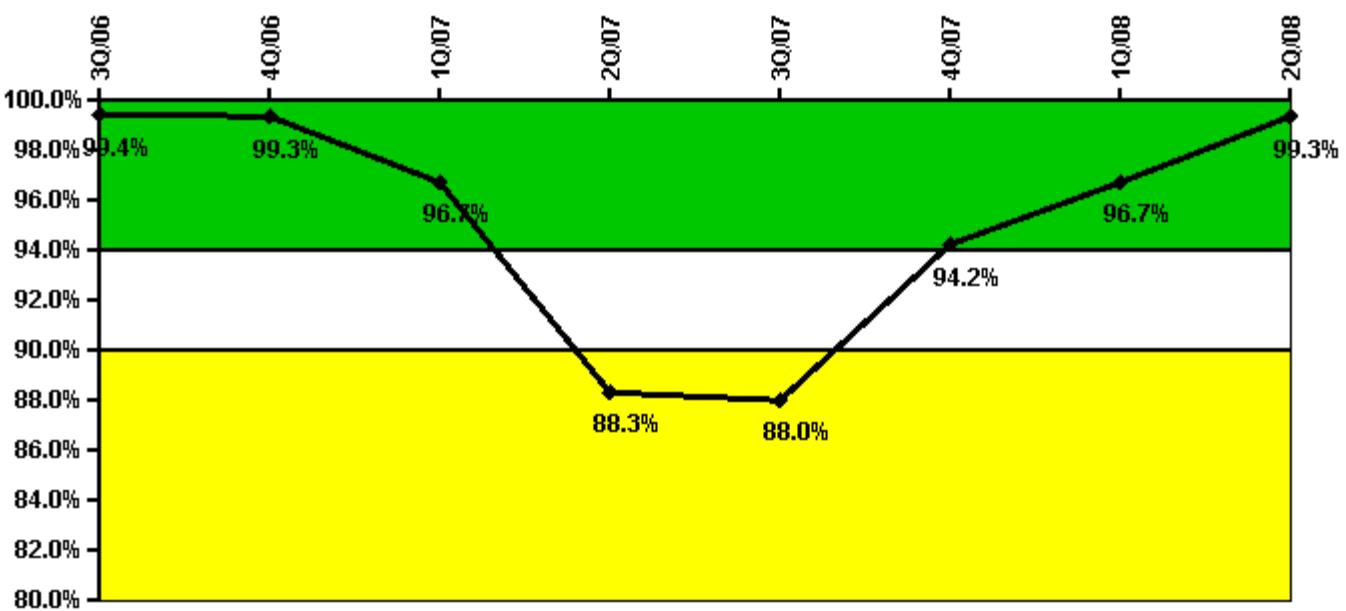
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Participating Key personnel	157.0	157.0	161.0	165.0	161.0	160.0	151.0	157.0
Total Key personnel	157.0	157.0	161.0	169.0	161.0	160.0	154.0	157.0
Indicator value	100.0%	100.0%	100.0%	97.6%	100.0%	100.0%	98.1%	100.0%

Licensee Comments: none

Alert & Notification System



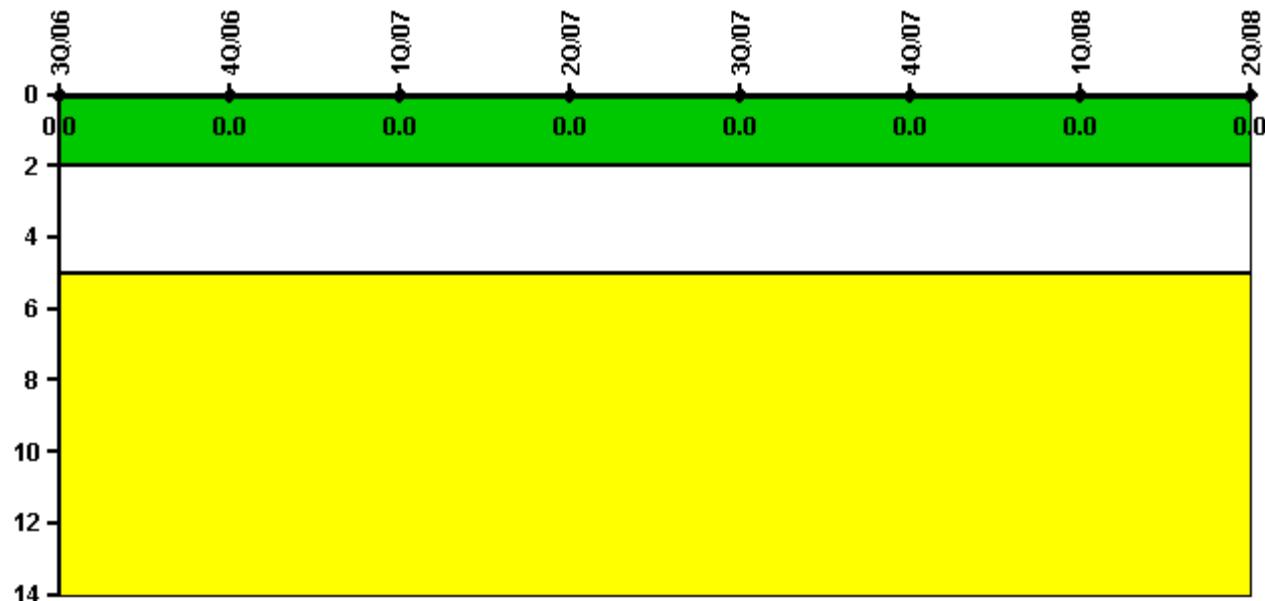
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful siren-tests	210	194	177	128	197	1108	1112	1112
Total sirens-tests	210	198	198	197	198	1116	1120	1119
Indicator value	99.4%	99.3%	96.7%	88.3%	88.0%	94.2%	96.7%	99.3%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Physical Protection](#) information not publicly available.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: August 4, 2008

D.C. Cook 2

3Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



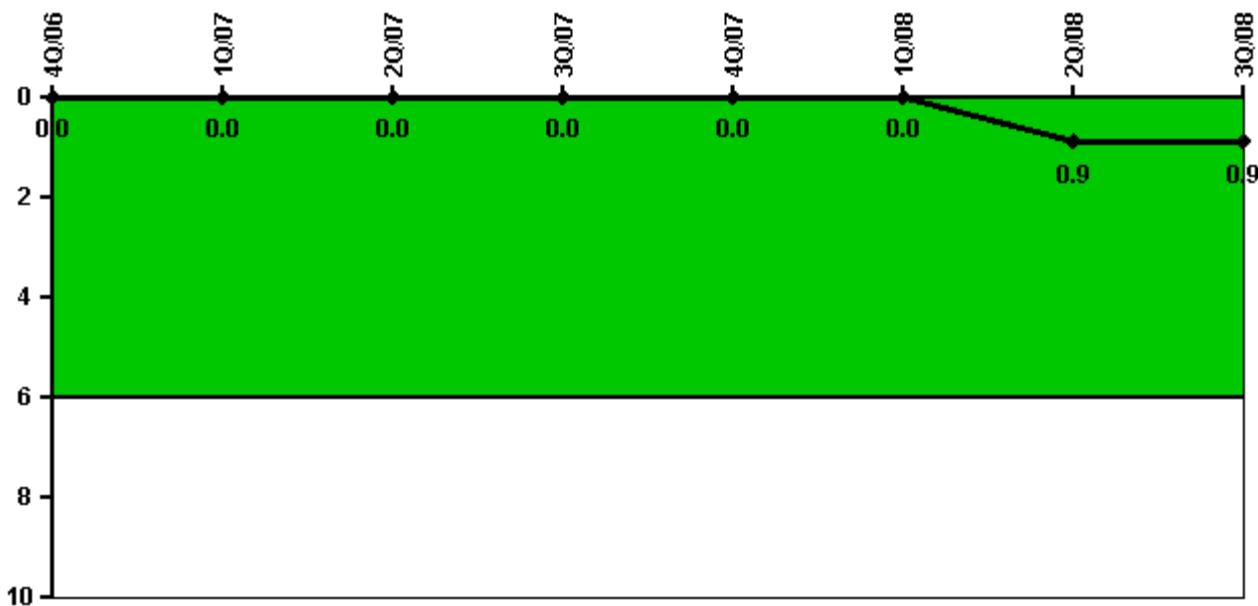
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	2184.0	1824.0	1340.3	2183.0	2184.0	2157.2
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



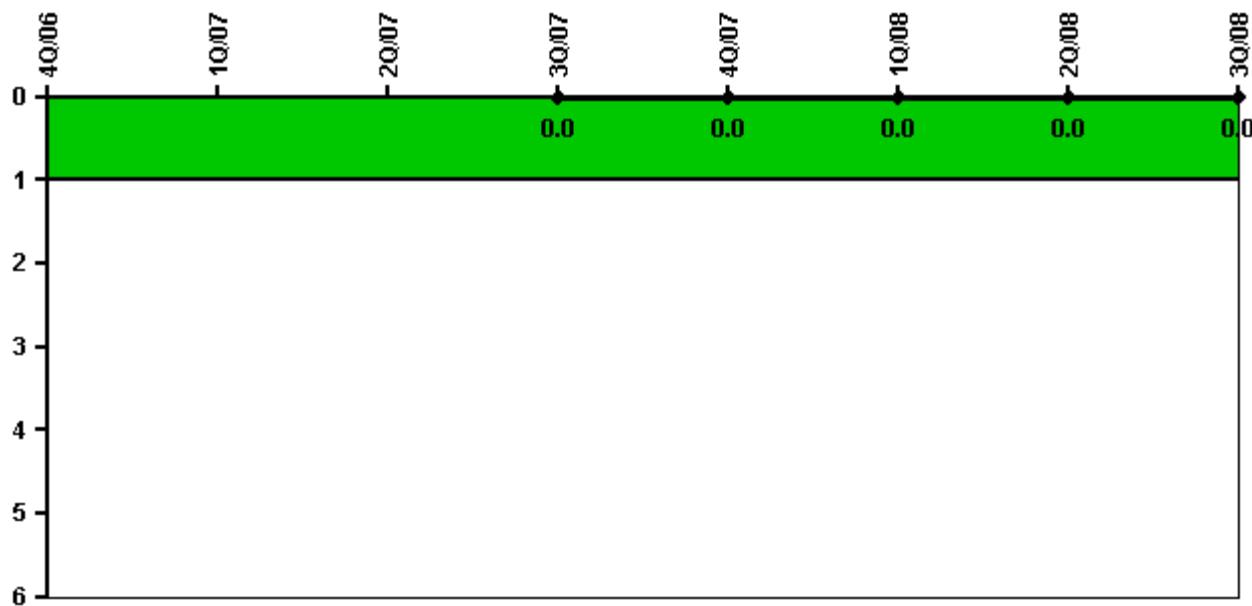
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2209.0	2159.0	2184.0	1824.0	1340.3	2183.0	2184.0	2157.2
Indicator value	0	0	0	0	0	0	0.9	0.9

Licensee Comments: none

Unplanned Scrams with Complications



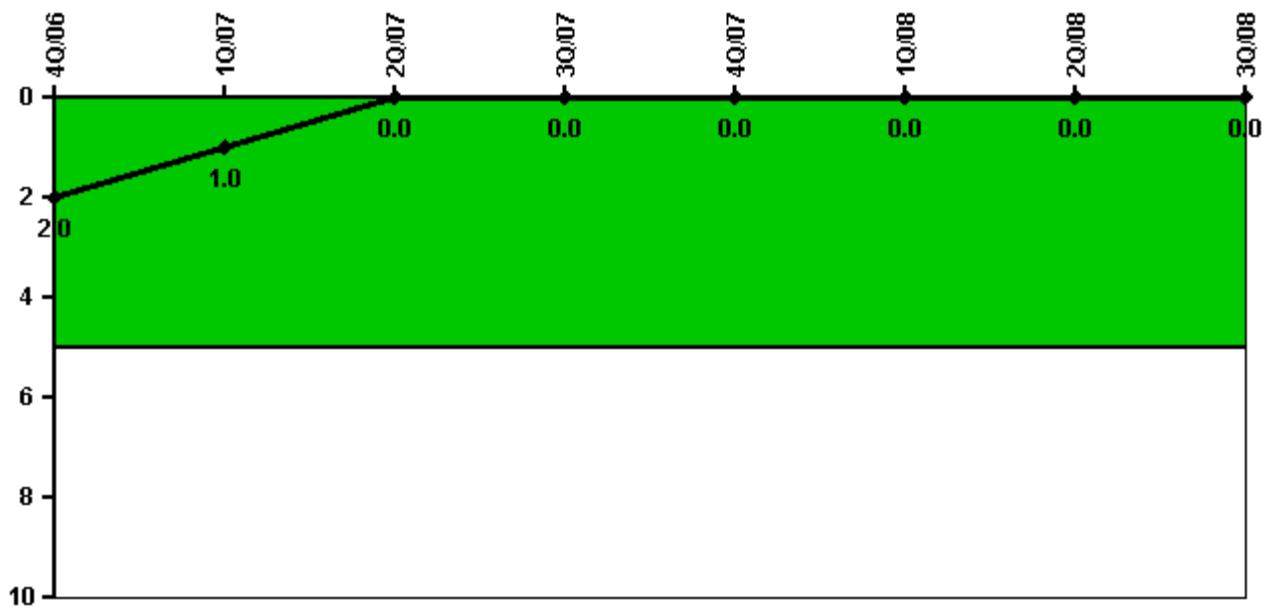
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value				0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



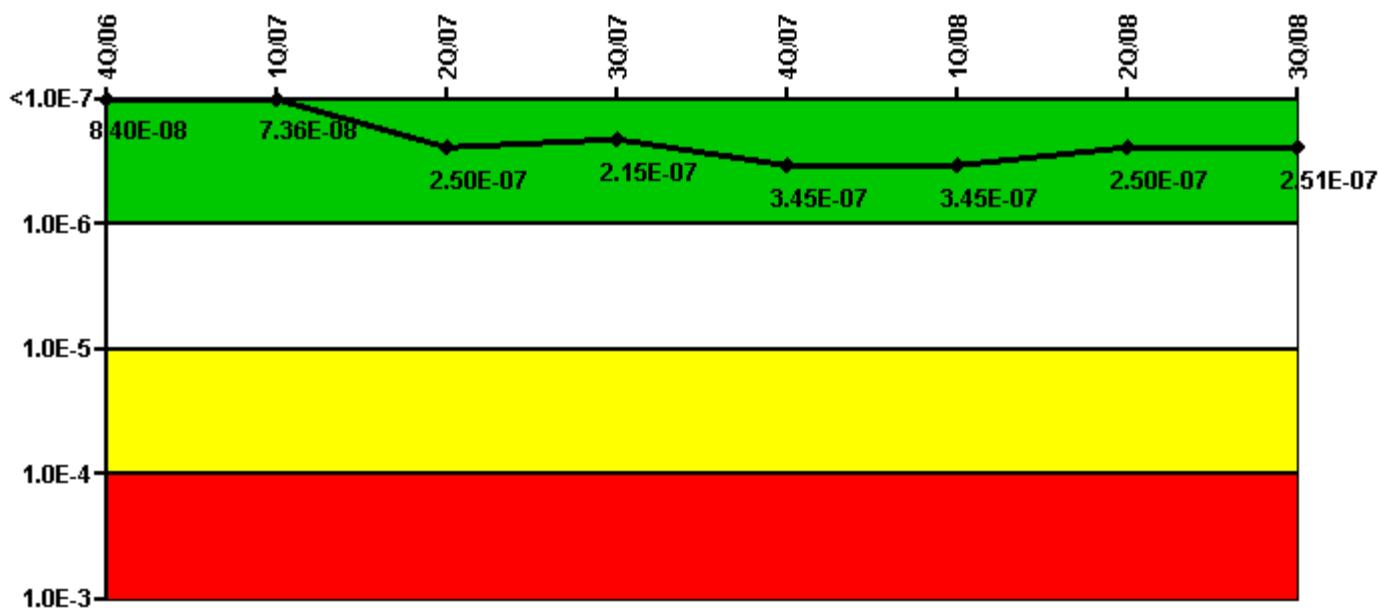
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	2	1	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



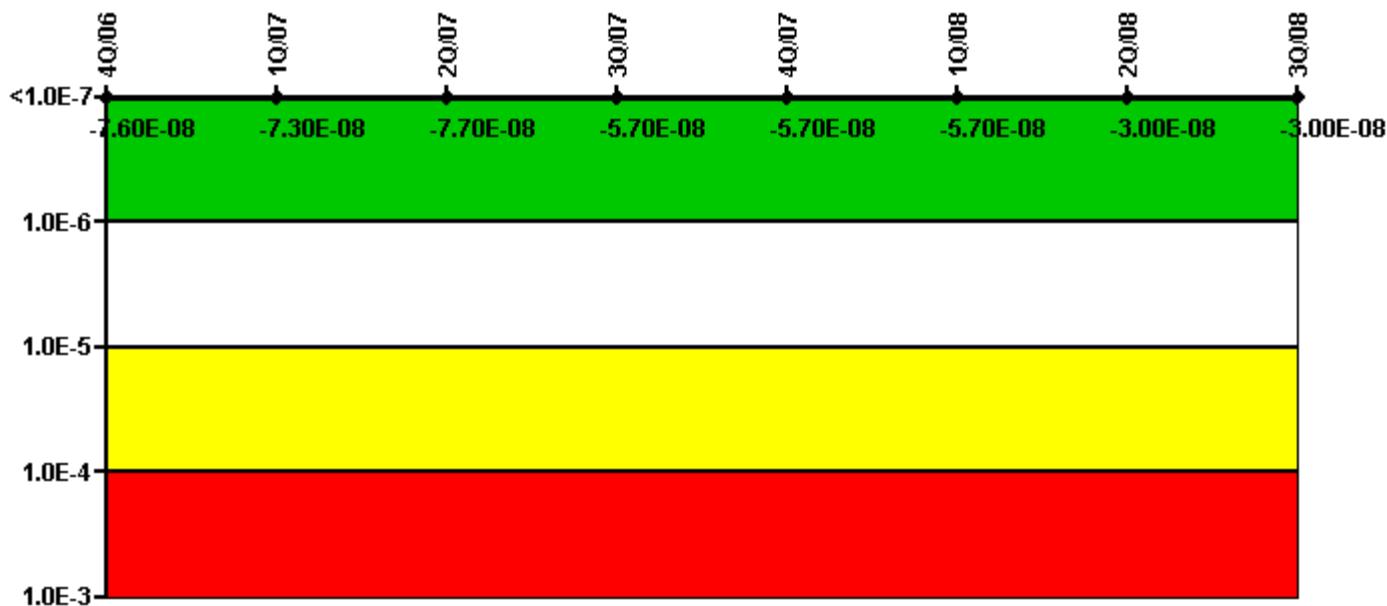
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (Δ CDF)	1.20E-08	1.60E-09	1.00E-08	5.40E-09	5.00E-09	4.90E-09	-2.80E-11	8.10E-10
URI (Δ CDF)	7.20E-08	7.20E-08	2.40E-07	2.10E-07	3.40E-07	3.40E-07	2.50E-07	2.50E-07
PLE	NO							
Indicator value	8.40E-08	7.36E-08	2.50E-07	2.15E-07	3.45E-07	3.45E-07	2.50E-07	2.51E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



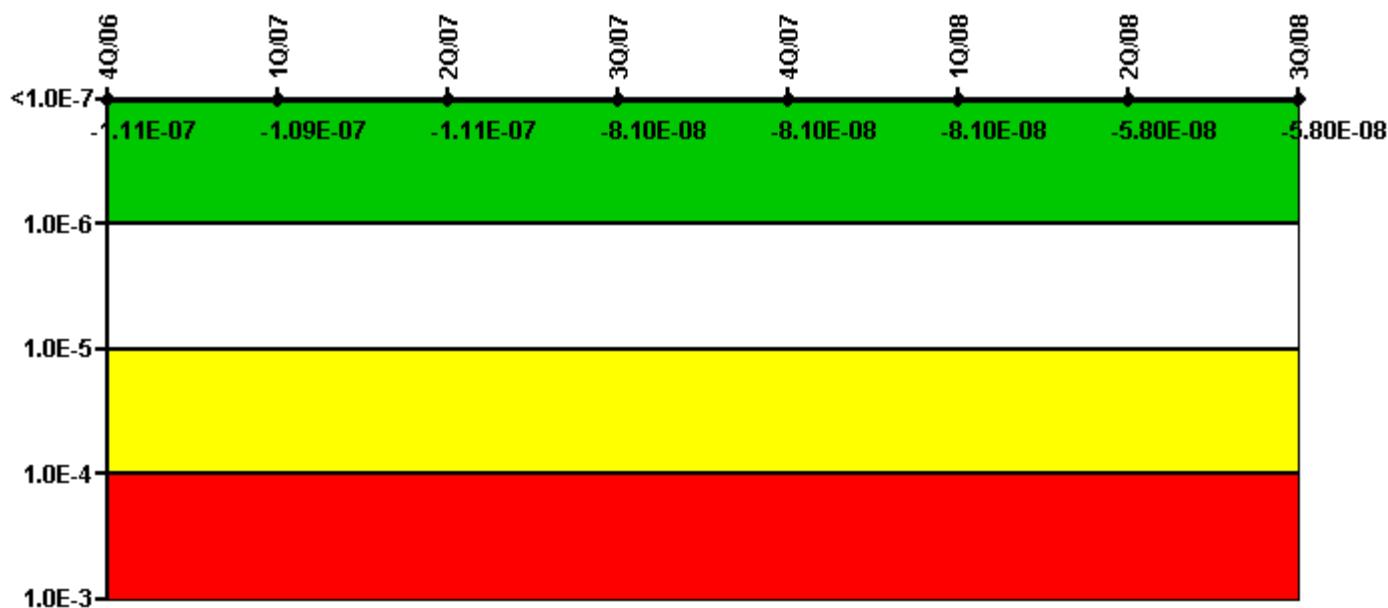
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (Δ CDF)	-3.40E-08	-3.10E-08	-3.50E-08	-2.20E-08	-2.20E-08	-2.20E-08	-4.40E-11	-4.10E-11
URI (Δ CDF)	-4.20E-08	-4.20E-08	-4.20E-08	-3.50E-08	-3.50E-08	-3.50E-08	-3.00E-08	-3.00E-08
PLE	NO							
Indicator value	-7.60E-08	-7.30E-08	-7.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-3.00E-08	-3.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



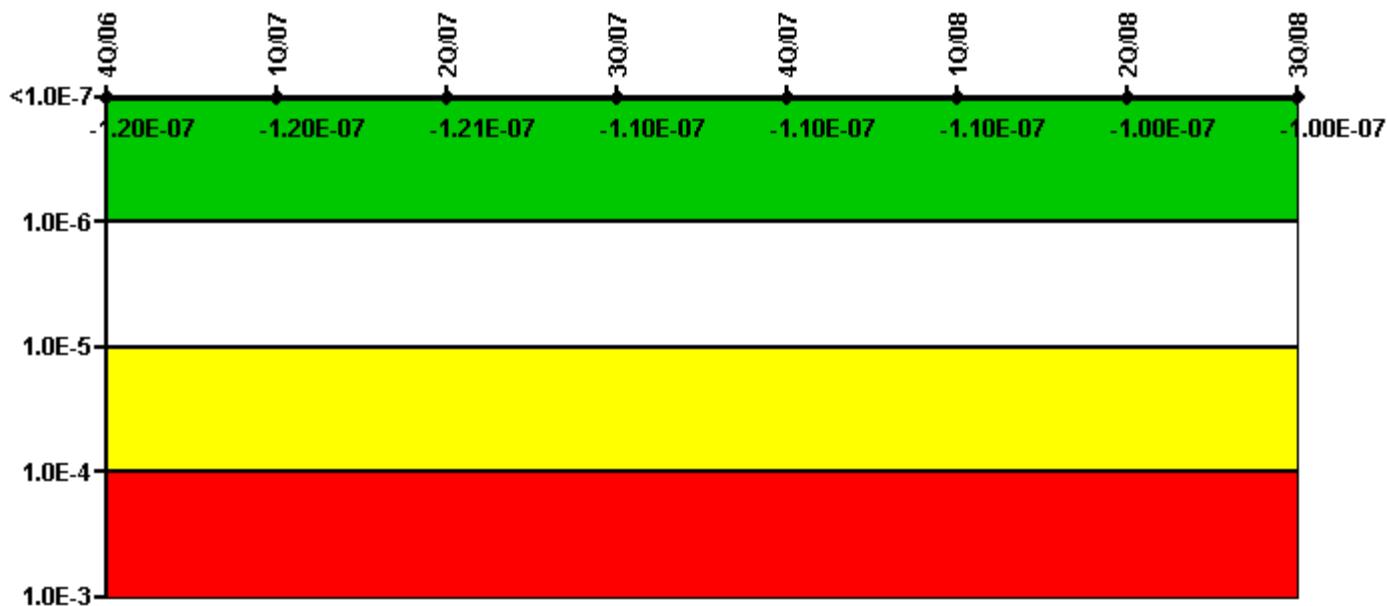
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (Δ CDF)	-3.00E-08	-3.00E-08	-3.40E-08	-2.20E-08	-2.20E-08	-2.20E-08	-4.00E-11	-4.00E-11
URI (Δ CDF)	-8.10E-08	-7.90E-08	-7.70E-08	-5.90E-08	-5.90E-08	-5.90E-08	-5.80E-08	-5.80E-08
PLE	NO							
Indicator value	-1.11E-07	-1.09E-07	-1.11E-07	-8.10E-08	-8.10E-08	-8.10E-08	-5.80E-08	-5.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



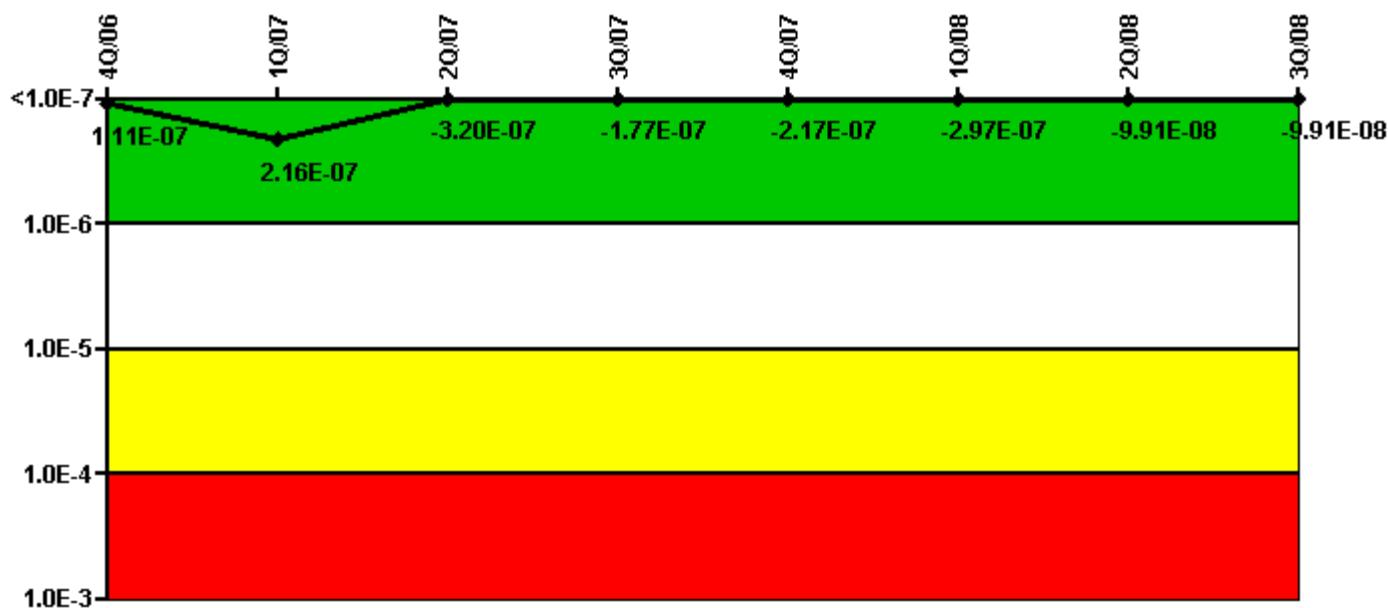
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (Δ CDF)	-2.40E-10	-2.60E-10	-8.40E-10	-2.00E-10	-2.00E-10	-2.00E-10	-1.50E-13	-2.50E-13
URI (Δ CDF)	-1.20E-07	-1.20E-07	-1.20E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07
PLE	NO							
Indicator value	-1.20E-07	-1.20E-07	-1.21E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



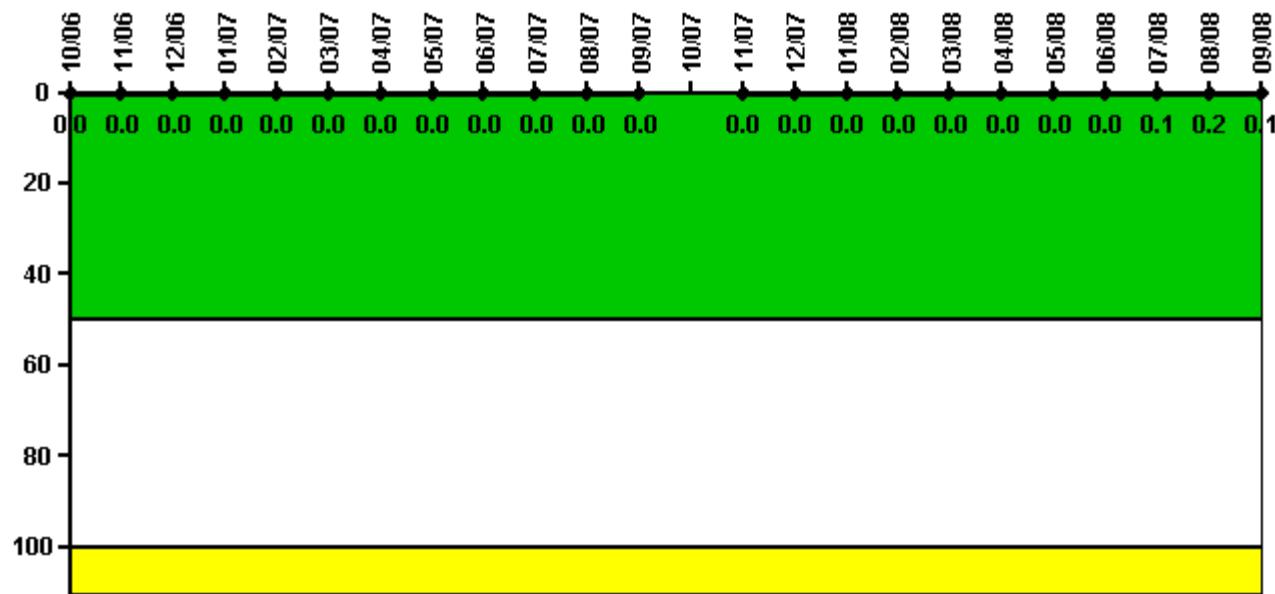
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (Δ CDF)	-5.90E-08	4.60E-08	-1.10E-07	-1.00E-07	-1.40E-07	-2.20E-07	-7.80E-11	-9.20E-11
URI (Δ CDF)	1.70E-07	1.70E-07	-2.10E-07	-7.70E-08	-7.70E-08	-7.70E-08	-9.90E-08	-9.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.11E-07	2.16E-07	-3.20E-07	-1.77E-07	-2.17E-07	-2.97E-07	-9.91E-08	-9.91E-08

Licensee Comments: none

Reactor Coolant System Activity



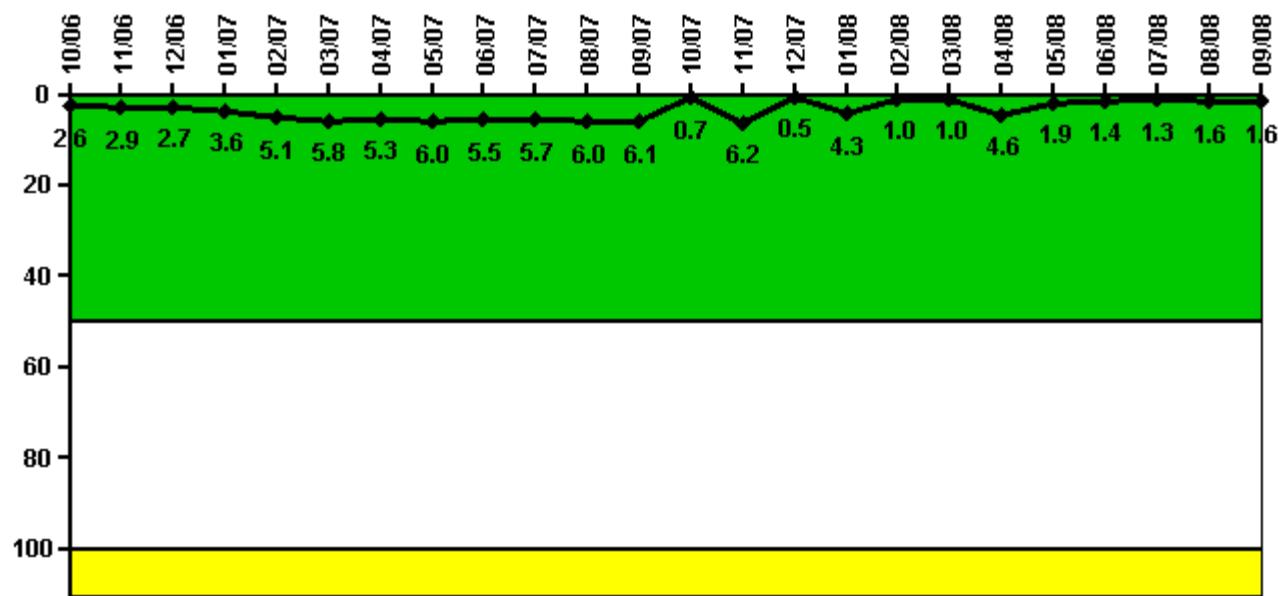
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum activity	0.000191	0.000152	0.000150	0.000148	0.000154	0.000177	0.000228	0.000223	0.000219	0.000216	0.000295	0.000240
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum activity	N/A	0.000114	0.000127	0.000120	0.000118	0.000141	0.000138	0.000138	0.000157	0.000161	0.000355	0.000168
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0.2	0.2
Indicator value	N/A	0	0	0	0	0	0	0	0	0.1	0.2	0.1

Licensee Comments: none

Reactor Coolant System Leakage



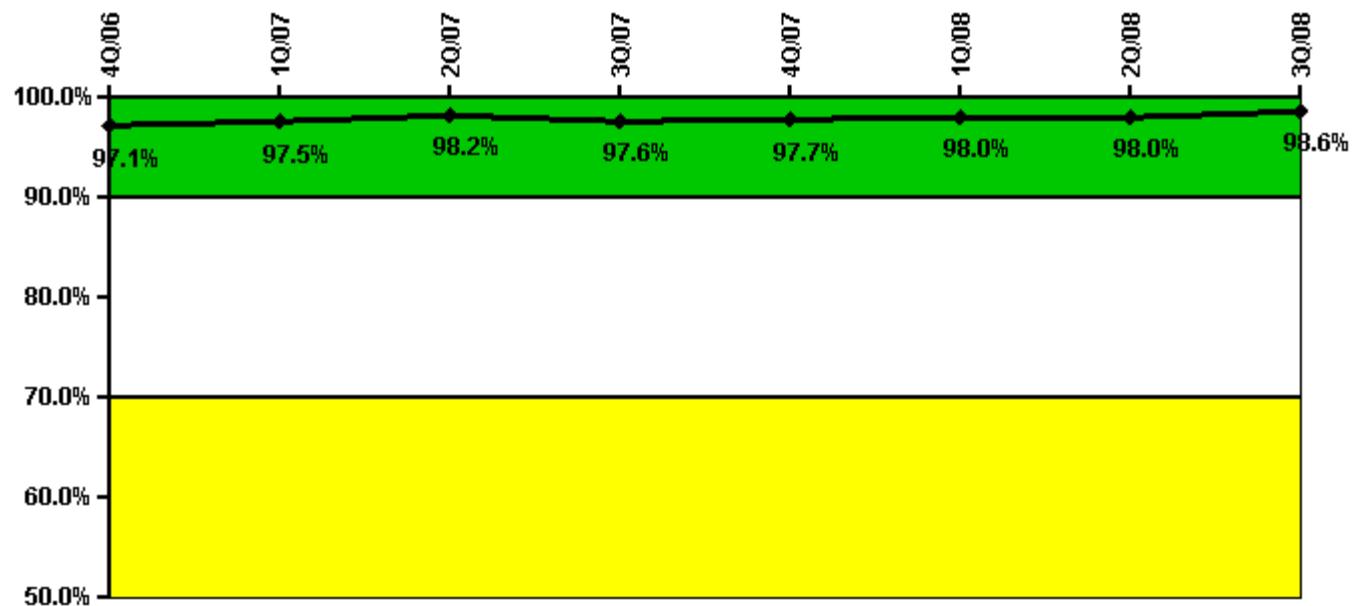
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum leakage	0.289	0.323	0.299	0.391	0.560	0.638	0.586	0.656	0.603	0.626	0.657	0.673
Indicator value	2.6	2.9	2.7	3.6	5.1	5.8	5.3	6.0	5.5	5.7	6.0	6.1
Reactor Coolant System Leakage	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum leakage	0.075	0.677	0.057	0.475	0.109	0.111	0.501	0.210	0.158	0.148	0.174	0.174
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.7	6.2	0.5	4.3	1.0	1.0	4.6	1.9	1.4	1.3	1.6	1.6

Licensee Comments: none

Drill/Exercise Performance



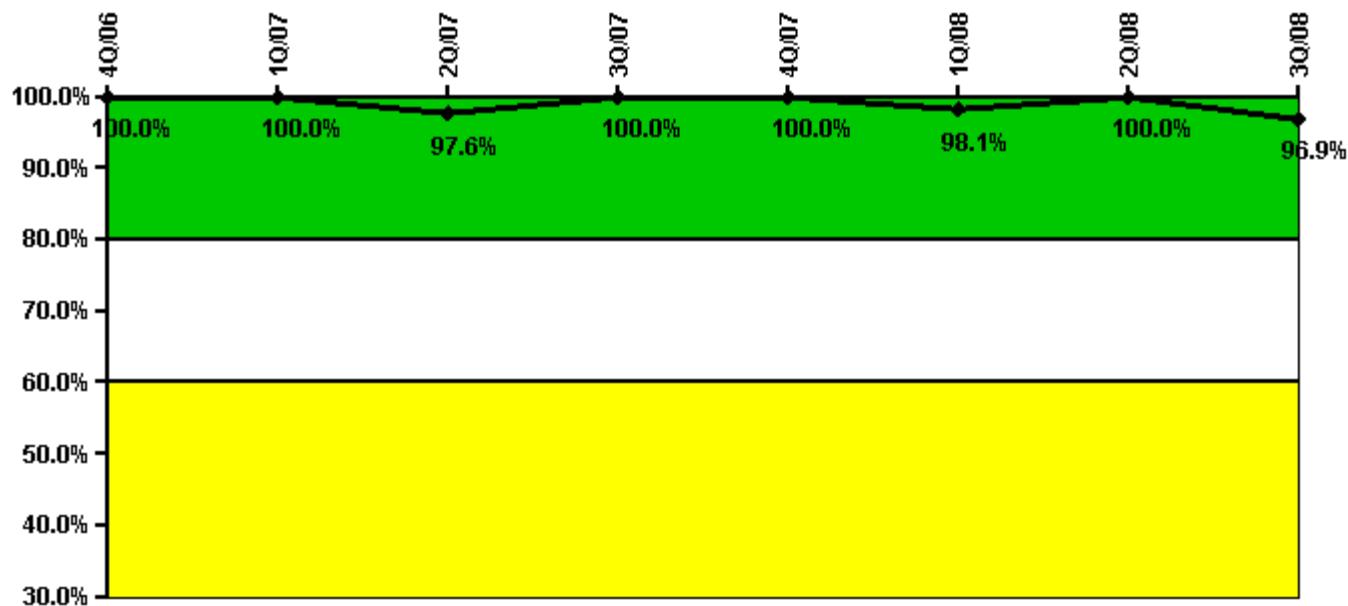
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful opportunities	130.0	113.0	121.0	43.0	51.0	87.0	27.0	132.0
Total opportunities	130.0	114.0	121.0	50.0	51.0	89.0	27.0	132.0
Indicator value	97.1%	97.5%	98.2%	97.6%	97.7%	98.0%	98.0%	98.6%

Licensee Comments: none

ERO Drill Participation



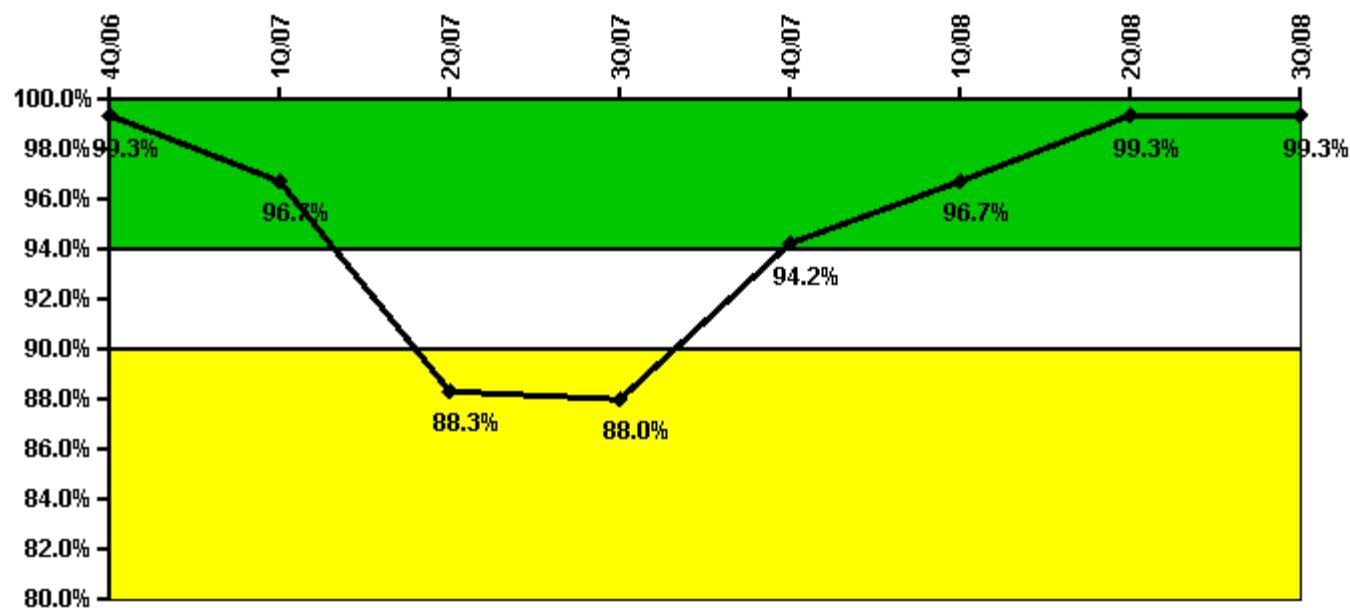
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Participating Key personnel	157.0	161.0	165.0	161.0	160.0	151.0	157.0	155.0
Total Key personnel	157.0	161.0	169.0	161.0	160.0	154.0	157.0	160.0
Indicator value	100.0%	100.0%	97.6%	100.0%	100.0%	98.1%	100.0%	96.9%

Licensee Comments: none

Alert & Notification System



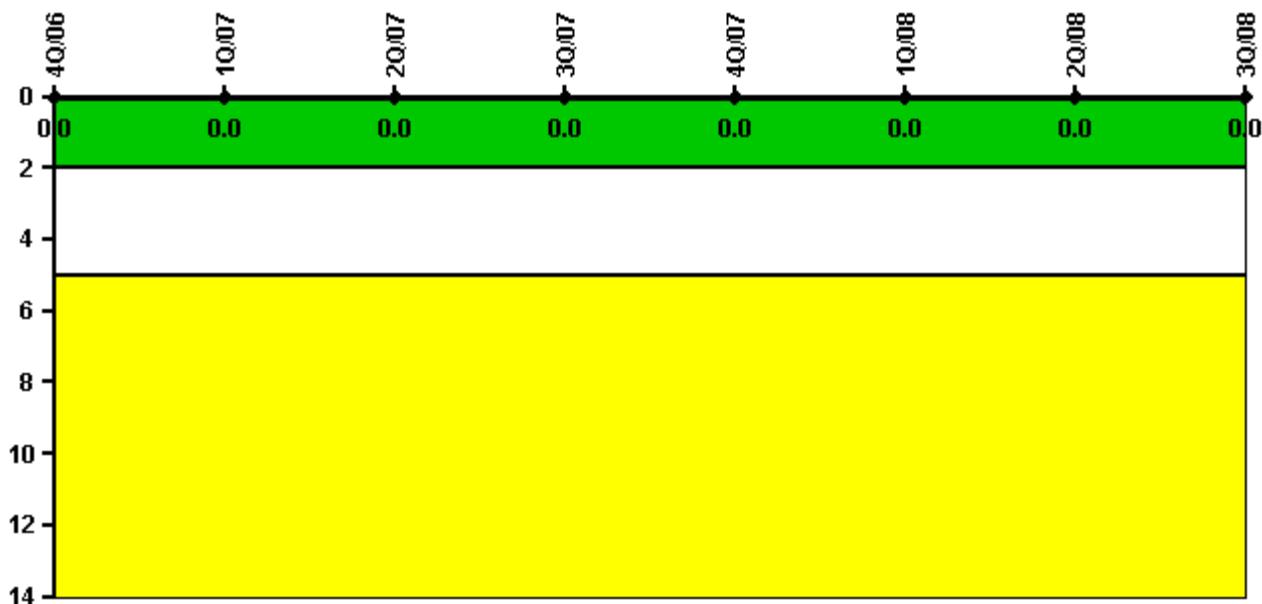
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful siren-tests	194	177	128	197	1108	1112	1112	1111
Total sirens-tests	198	198	197	198	1116	1120	1119	1120
Indicator value	99.3%	96.7%	88.3%	88.0%	94.2%	96.7%	99.3%	99.3%

Licensee Comments: none

Occupational Exposure Control Effectiveness



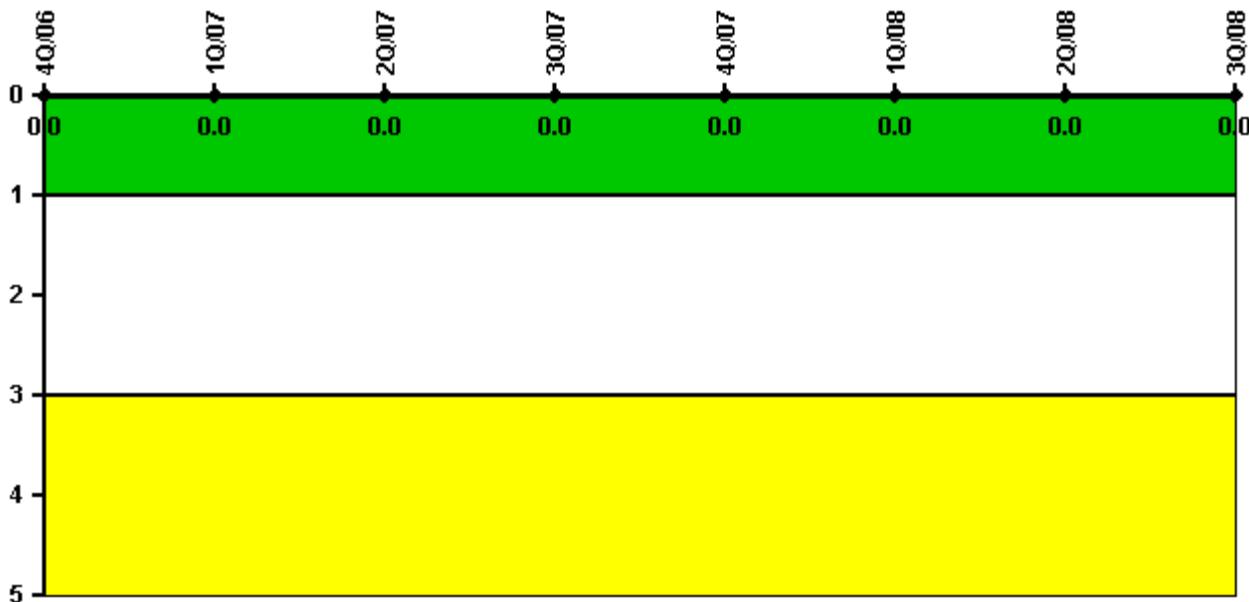
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Security](#) information not publicly available.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

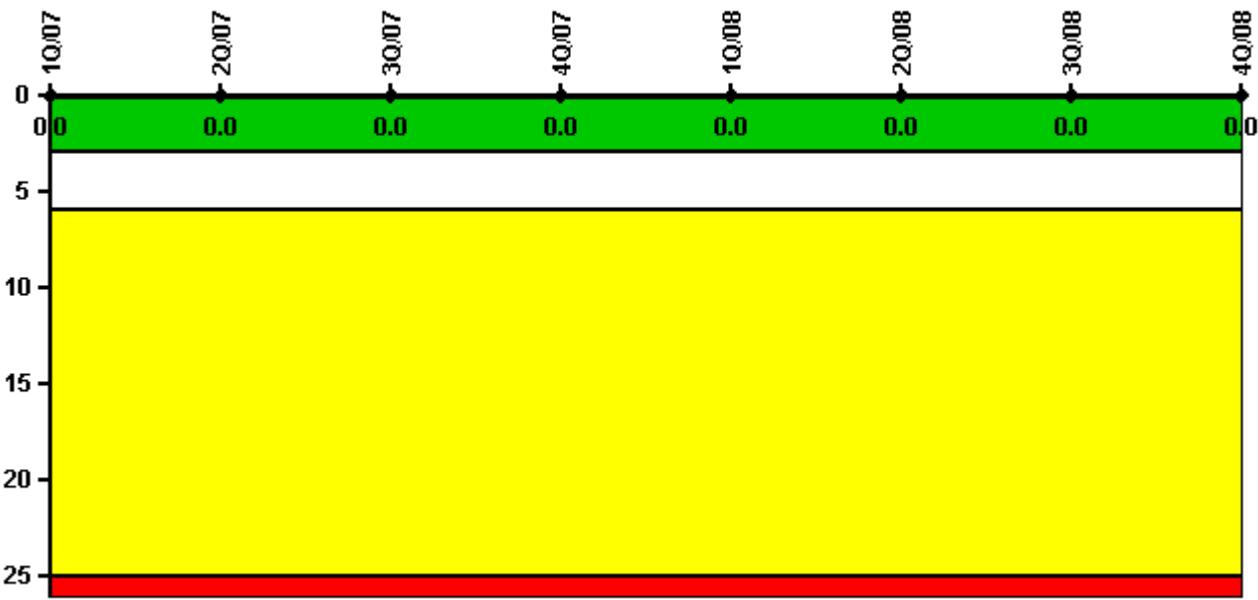
Last Modified: November 26, 2008

D.C. Cook 2

4Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



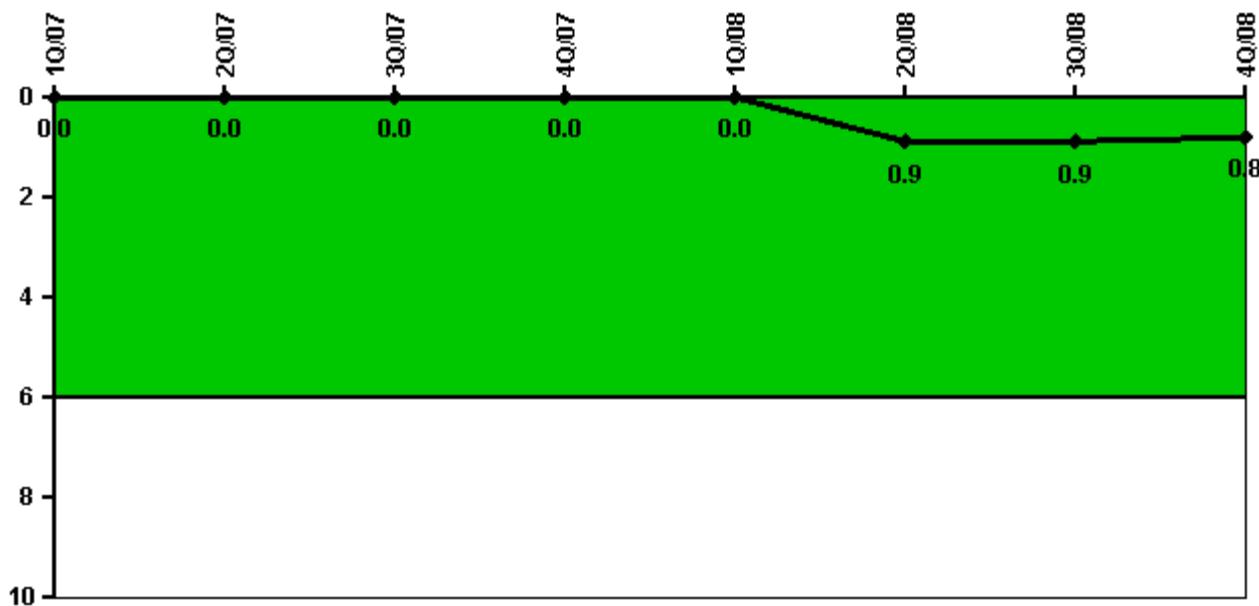
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	1824.0	1340.3	2183.0	2184.0	2157.2	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



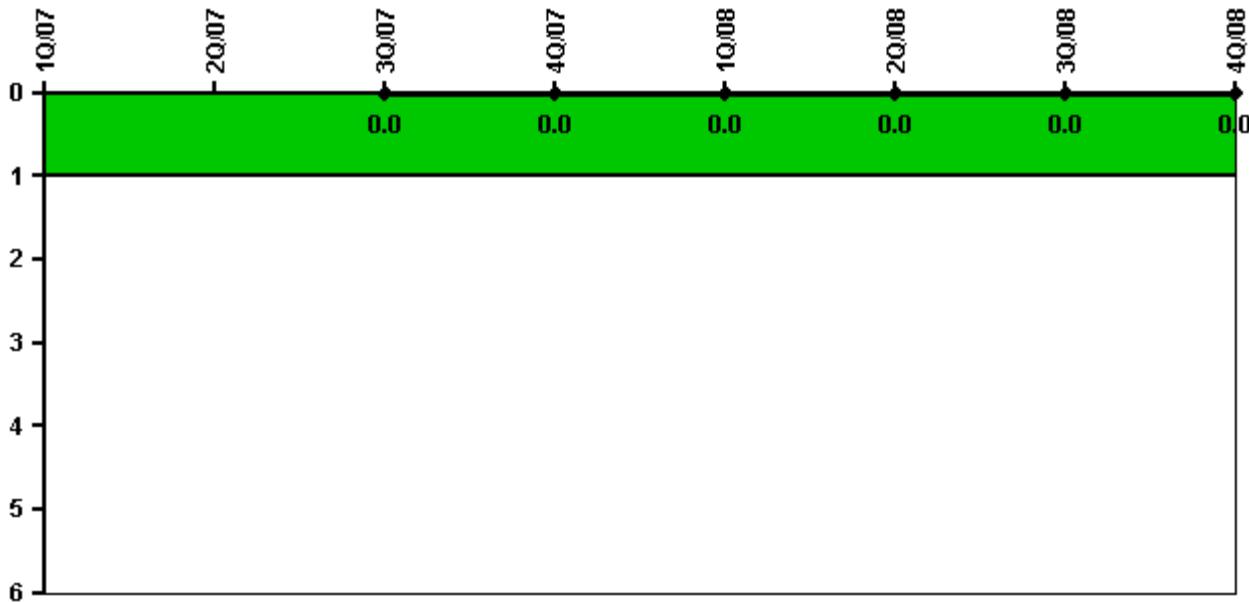
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2159.0	2184.0	1824.0	1340.3	2183.0	2184.0	2157.2	2209.0
Indicator value	0	0	0	0	0	0.9	0.9	0.8

Licensee Comments: none

Unplanned Scrams with Complications



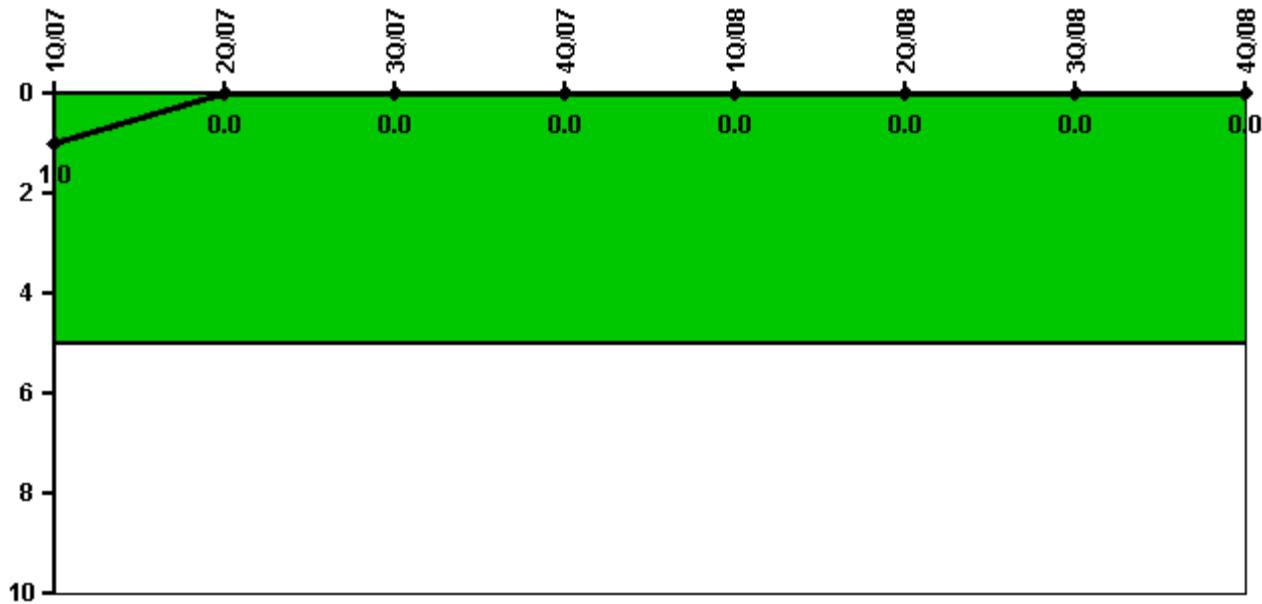
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value			0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



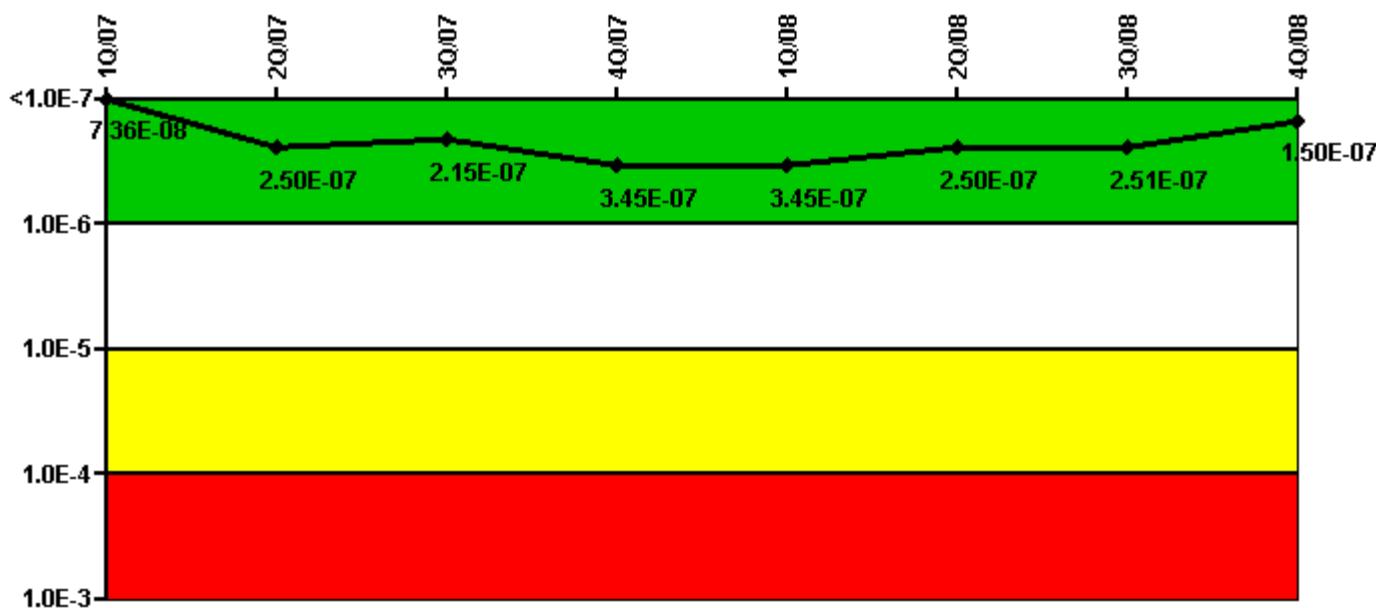
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	1	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



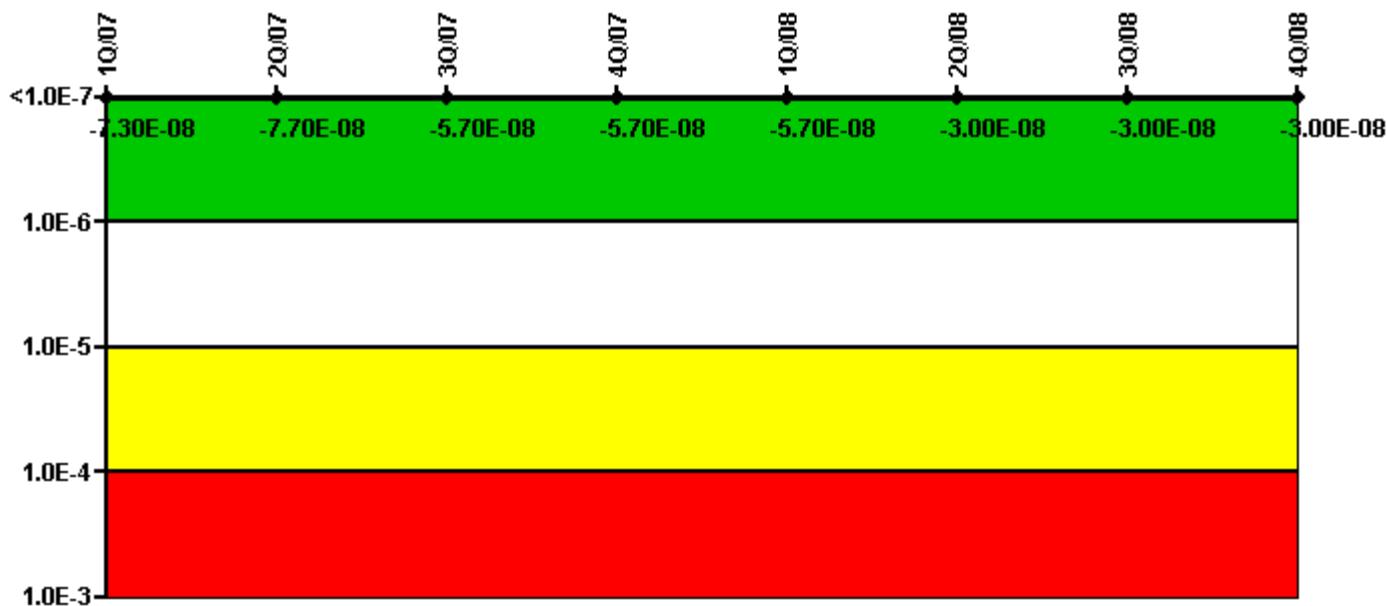
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (Δ CDF)	1.60E-09	1.00E-08	5.40E-09	5.00E-09	4.90E-09	-2.80E-11	8.10E-10	4.10E-10
URI (Δ CDF)	7.20E-08	2.40E-07	2.10E-07	3.40E-07	3.40E-07	2.50E-07	2.50E-07	1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.36E-08	2.50E-07	2.15E-07	3.45E-07	3.45E-07	2.50E-07	2.51E-07	1.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



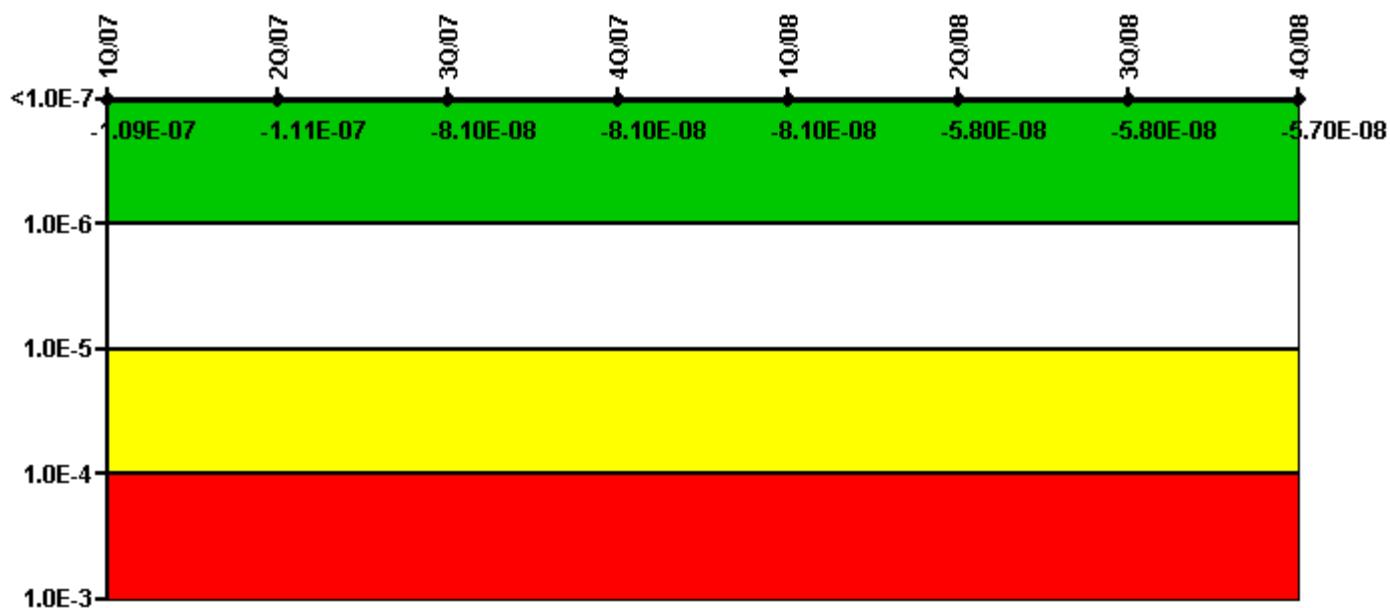
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (Δ CDF)	-3.10E-08	-3.50E-08	-2.20E-08	-2.20E-08	-2.20E-08	-4.40E-11	-4.10E-11	-4.40E-11
URI (Δ CDF)	-4.20E-08	-4.20E-08	-3.50E-08	-3.50E-08	-3.50E-08	-3.00E-08	-3.00E-08	-3.00E-08
PLE	NO							
Indicator value	-7.30E-08	-7.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-3.00E-08	-3.00E-08	-3.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



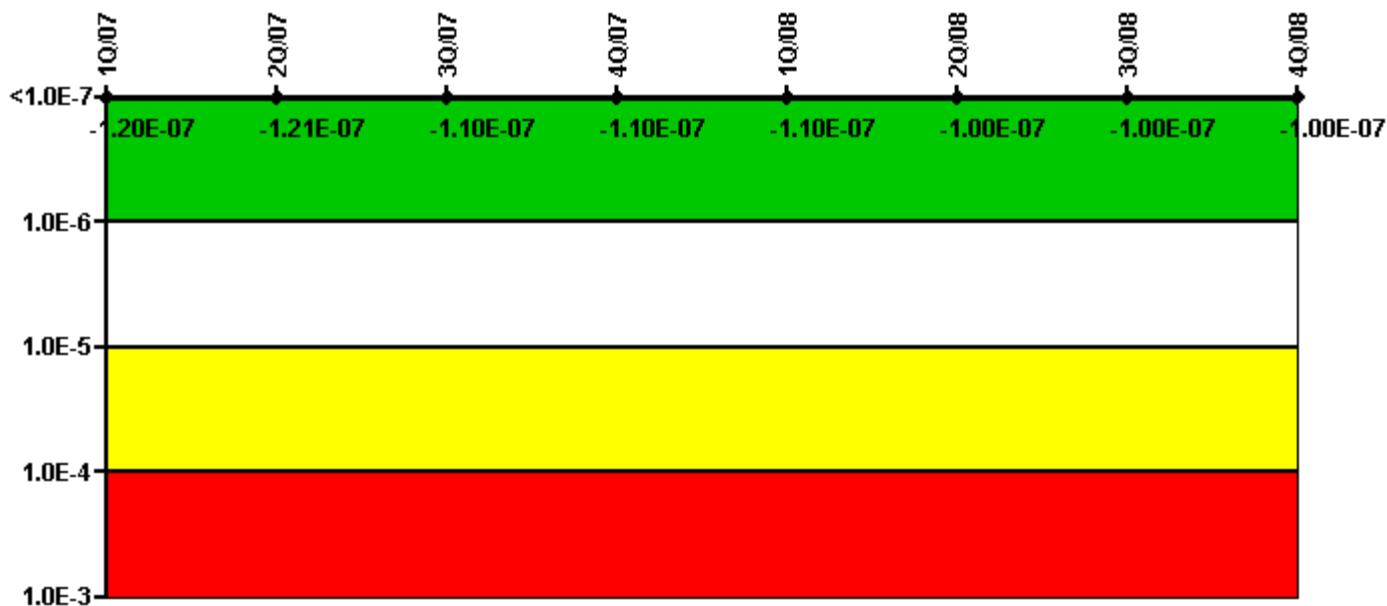
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	-3.00E-08	-3.40E-08	-2.20E-08	-2.20E-08	-2.20E-08	-4.00E-11	-4.00E-11	-4.00E-11
URI (ΔCDF)	-7.90E-08	-7.70E-08	-5.90E-08	-5.90E-08	-5.90E-08	-5.80E-08	-5.80E-08	-5.70E-08
PLE	NO							
Indicator value	-1.09E-07	-1.11E-07	-8.10E-08	-8.10E-08	-8.10E-08	-5.80E-08	-5.80E-08	-5.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



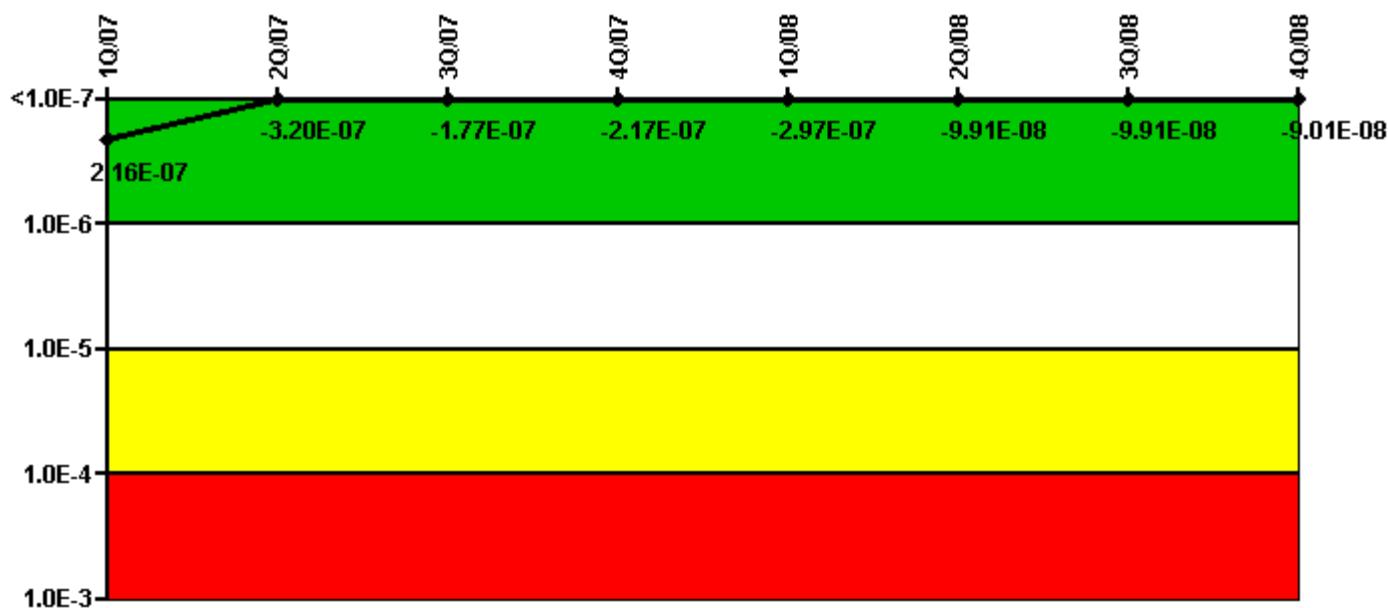
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (Δ CDF)	-2.60E-10	-8.40E-10	-2.00E-10	-2.00E-10	-2.00E-10	-1.50E-13	-2.50E-13	-2.50E-13
URI (Δ CDF)	-1.20E-07	-1.20E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07
PLE	NO							
Indicator value	-1.20E-07	-1.21E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



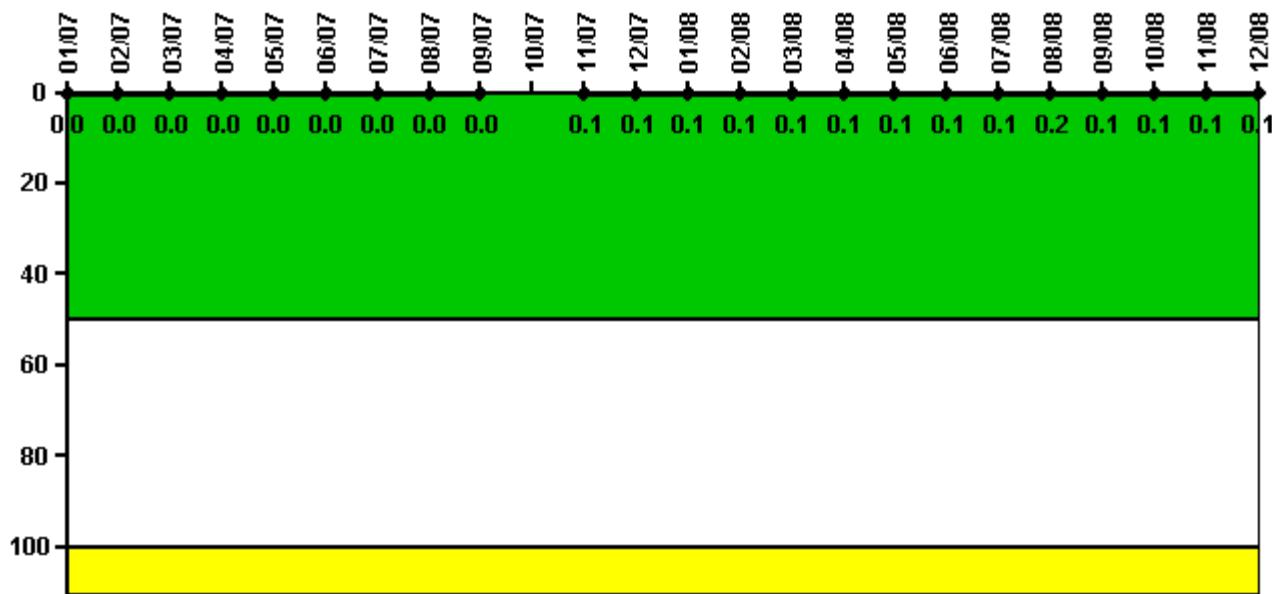
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	4.60E-08	-1.10E-07	-1.00E-07	-1.40E-07	-2.20E-07	-7.80E-11	-9.20E-11	-5.60E-11
URI (ΔCDF)	1.70E-07	-2.10E-07	-7.70E-08	-7.70E-08	-7.70E-08	-9.90E-08	-9.90E-08	-9.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.16E-07	-3.20E-07	-1.77E-07	-2.17E-07	-2.97E-07	-9.91E-08	-9.91E-08	-9.01E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

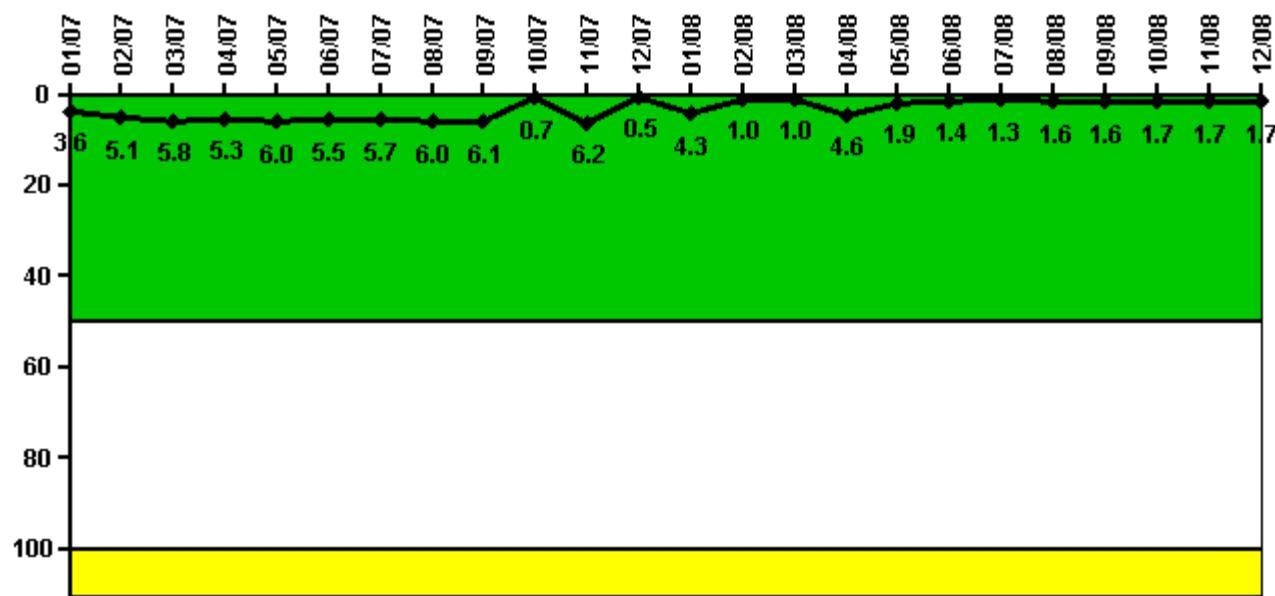
Notes

Reactor Coolant System Activity	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum activity	0.000148	0.000154	0.000177	0.000228	0.000223	0.000219	0.000216	0.000295	0.000240	N/A	0.000114	0.000127
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	0	0	0	N/A	0.1	0.1
Reactor Coolant System Activity	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum activity	0.000120	0.000118	0.000141	0.000138	0.000138	0.000157	0.000161	0.000355	0.000168	0.000171	0.000173	0.000179
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1

Licensee Comments:

6/08: Technical Specification limit on I-131 activity was administratively reduced to 0.167 as of 4th quarter 2007.

Reactor Coolant System Leakage



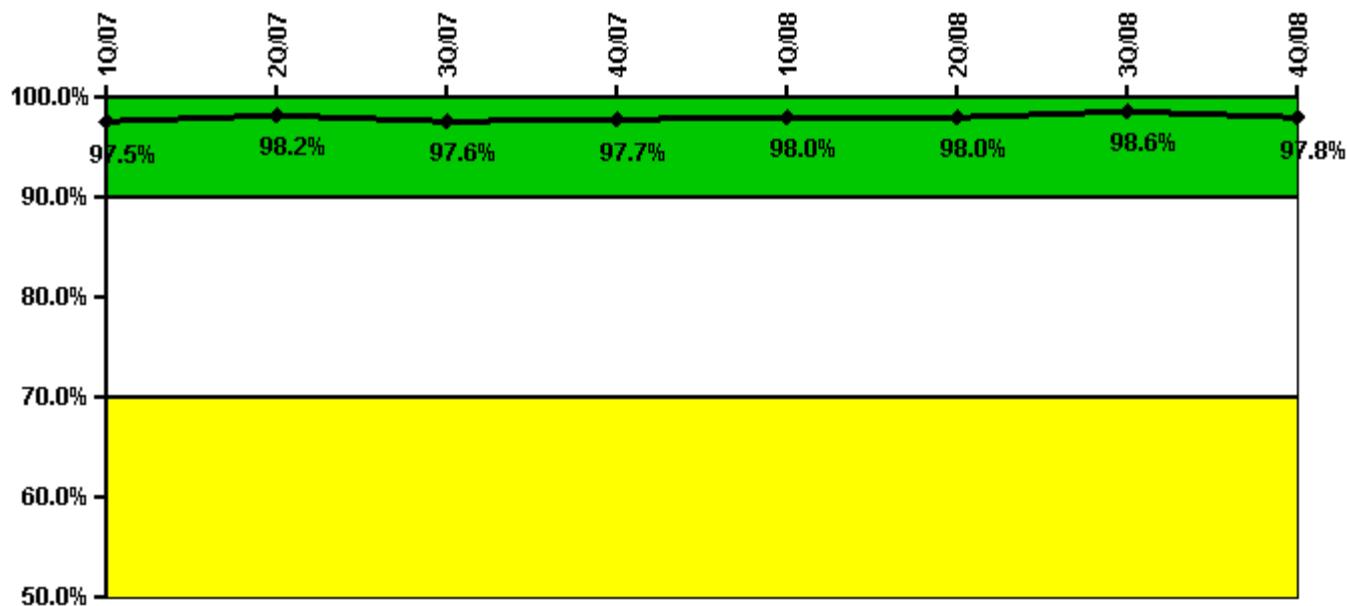
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum leakage	0.391	0.560	0.638	0.586	0.656	0.603	0.626	0.657	0.673	0.075	0.677	0.057
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	3.6	5.1	5.8	5.3	6.0	5.5	5.7	6.0	6.1	0.7	6.2	0.5
Reactor Coolant System Leakage	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum leakage	0.475	0.109	0.111	0.501	0.210	0.158	0.148	0.174	0.174	0.184	0.184	0.187
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	4.3	1.0	1.0	4.6	1.9	1.4	1.3	1.6	1.6	1.7	1.7	1.7

Licensee Comments: none

Drill/Exercise Performance



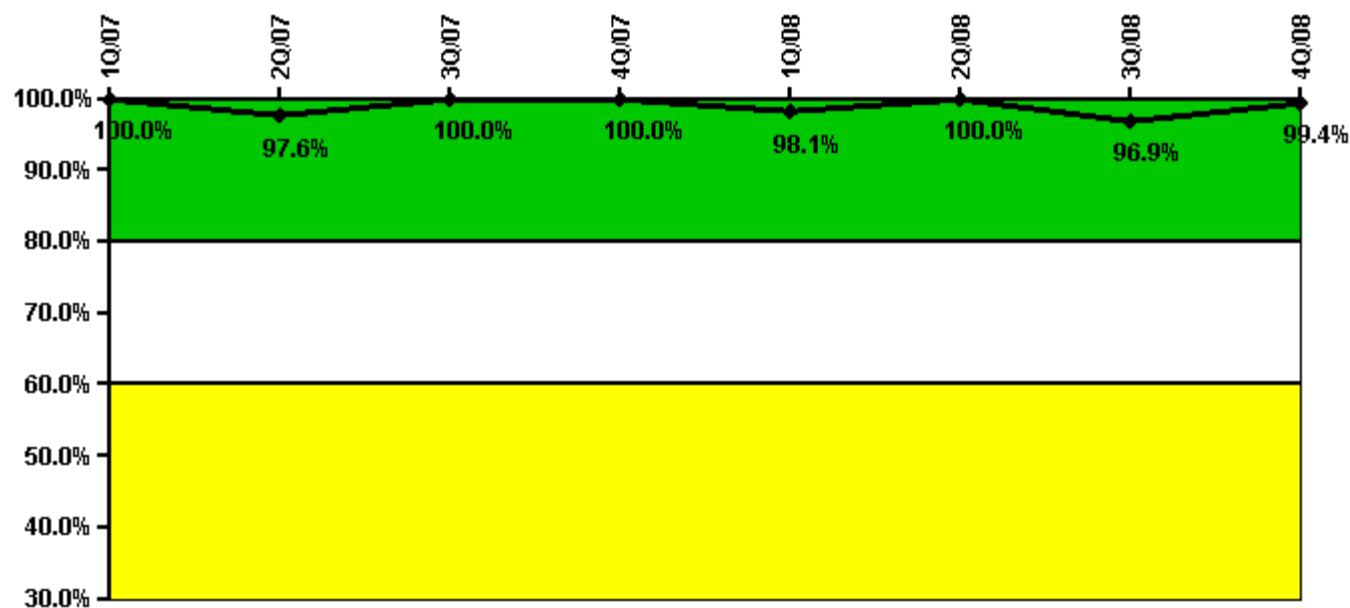
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful opportunities	113.0	121.0	43.0	51.0	87.0	27.0	132.0	96.0
Total opportunities	114.0	121.0	50.0	51.0	89.0	27.0	132.0	101.0
Indicator value	97.5%	98.2%	97.6%	97.7%	98.0%	98.0%	98.6%	97.8%

Licensee Comments: none

ERO Drill Participation



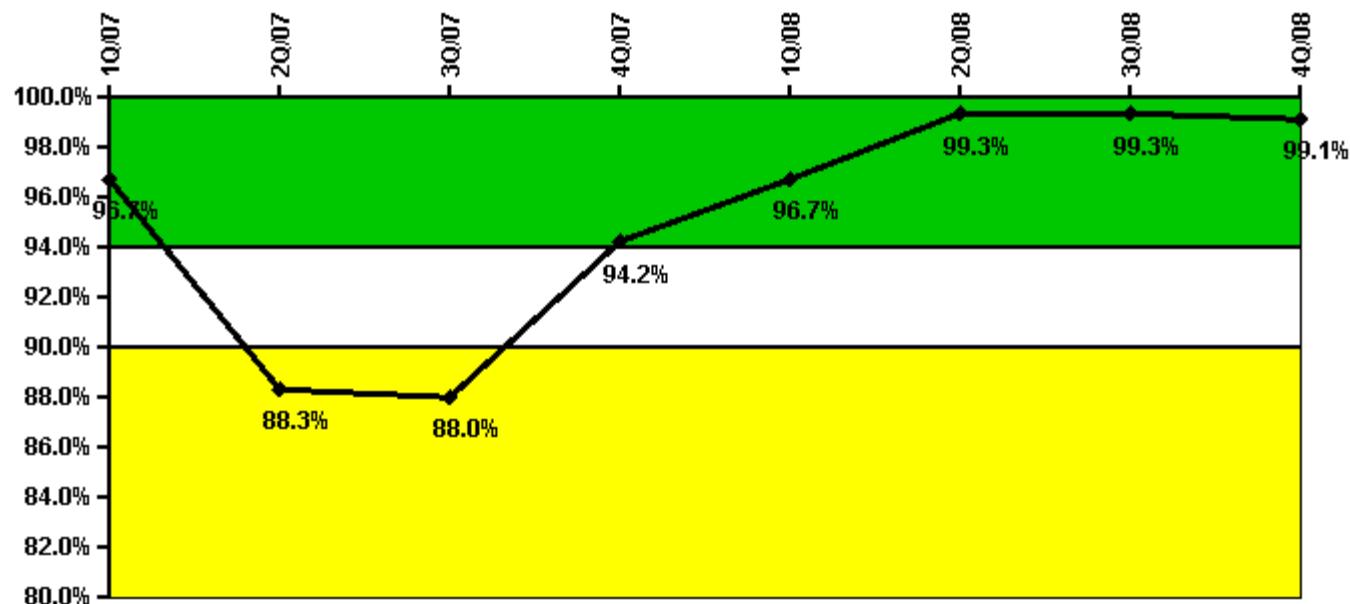
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Participating Key personnel	161.0	165.0	161.0	160.0	151.0	157.0	155.0	153.0
Total Key personnel	161.0	169.0	161.0	160.0	154.0	157.0	160.0	154.0
Indicator value	100.0%	97.6%	100.0%	100.0%	98.1%	100.0%	96.9%	99.4%

Licensee Comments: none

Alert & Notification System



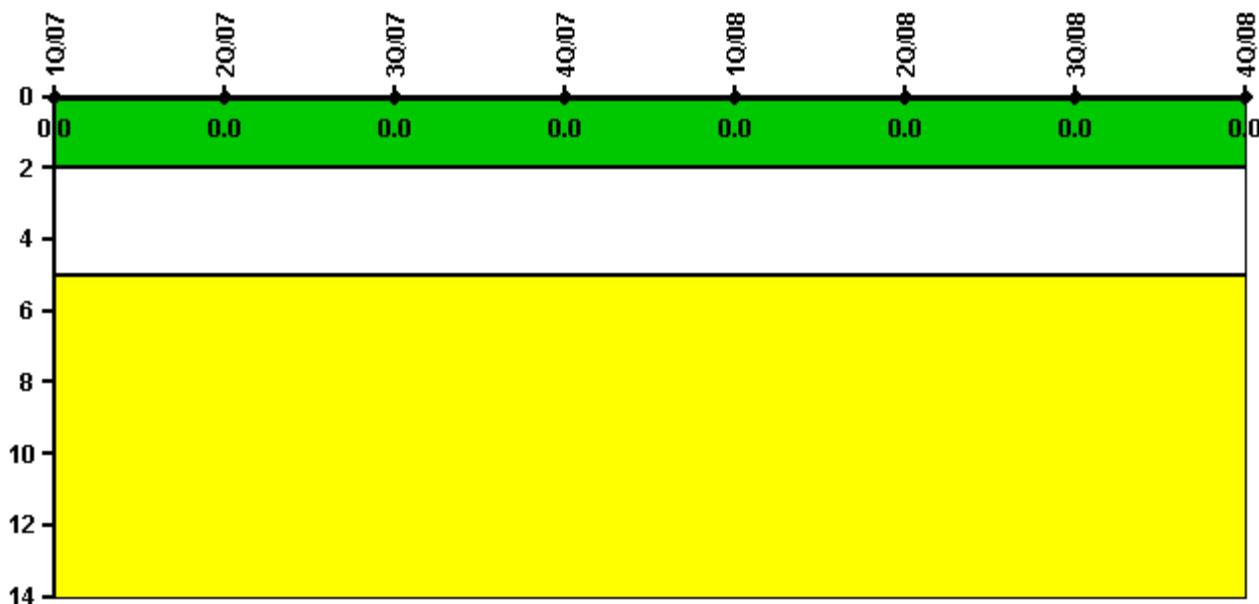
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful siren-tests	177	128	197	1108	1112	1112	1111	1171
Total sirens-tests	198	197	198	1116	1120	1119	1120	1190
Indicator value	96.7%	88.3%	88.0%	94.2%	96.7%	99.3%	99.3%	99.1%

Licensee Comments: none

Occupational Exposure Control Effectiveness



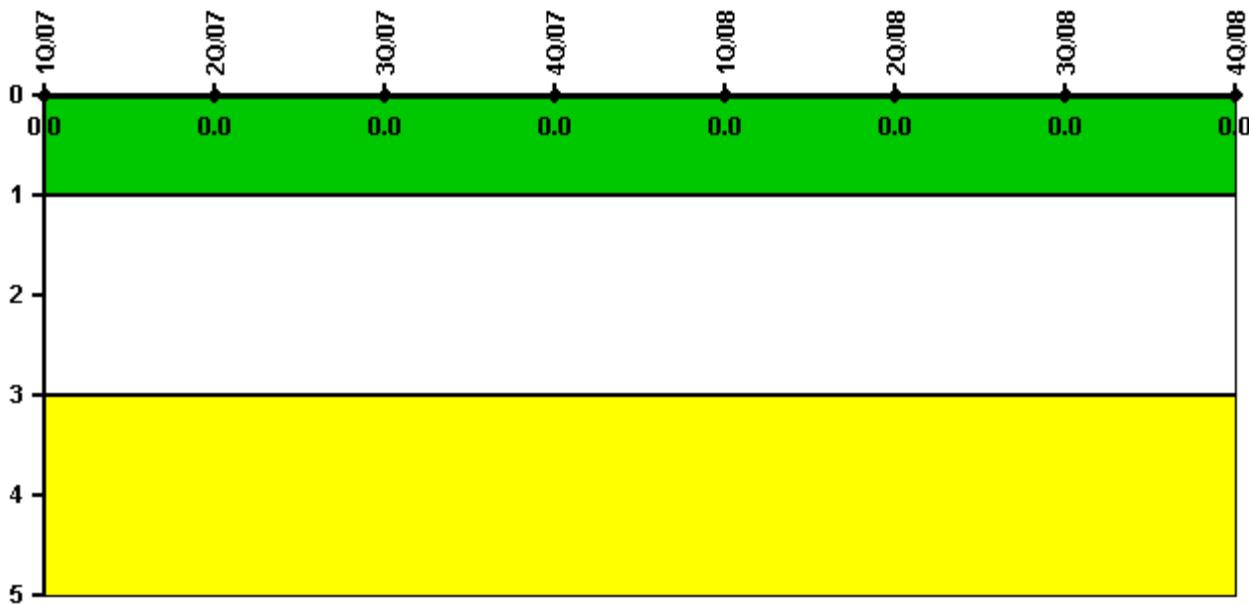
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

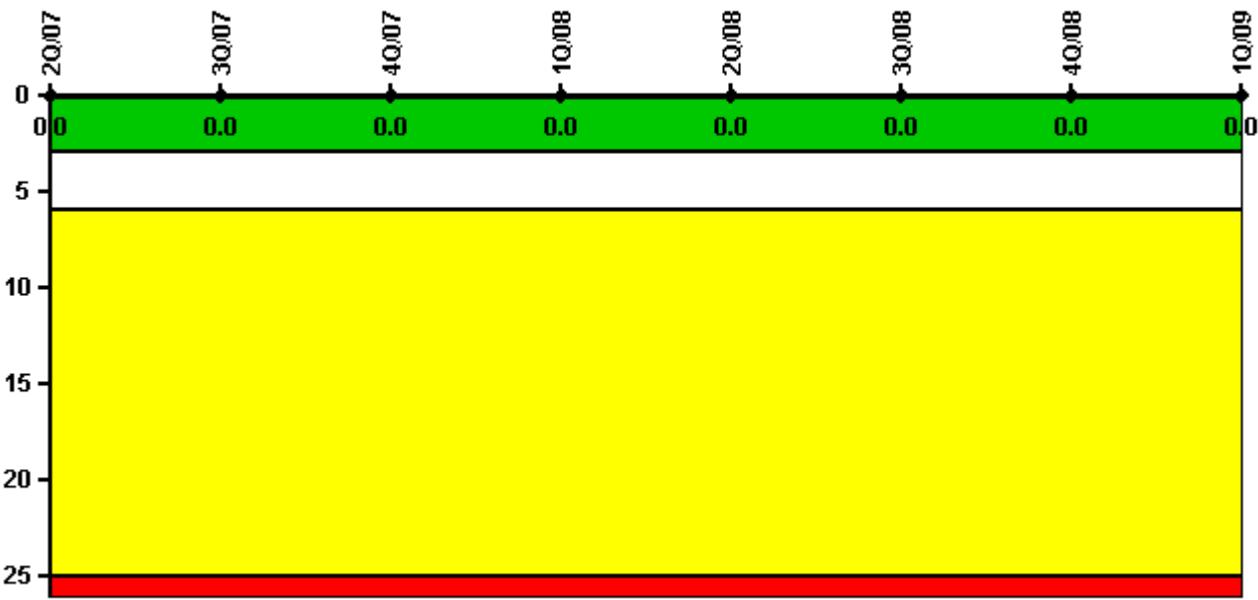
[Security](#) information not publicly available.

D.C. Cook 2

1Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



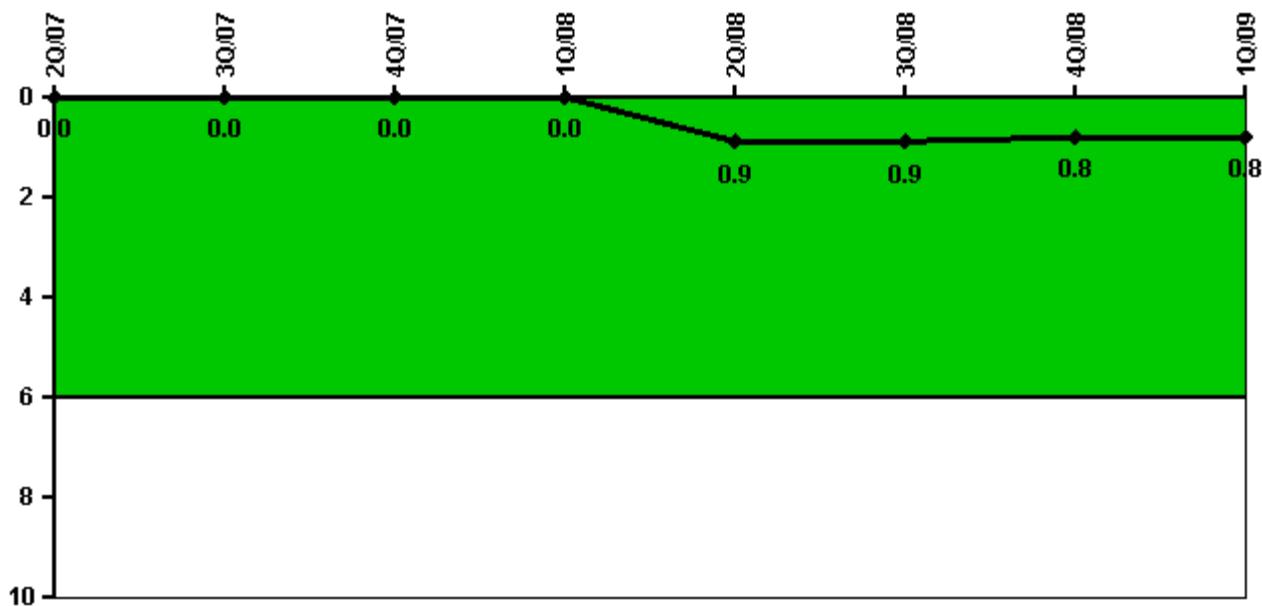
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	1824.0	1340.3	2183.0	2184.0	2157.2	2209.0	1991.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



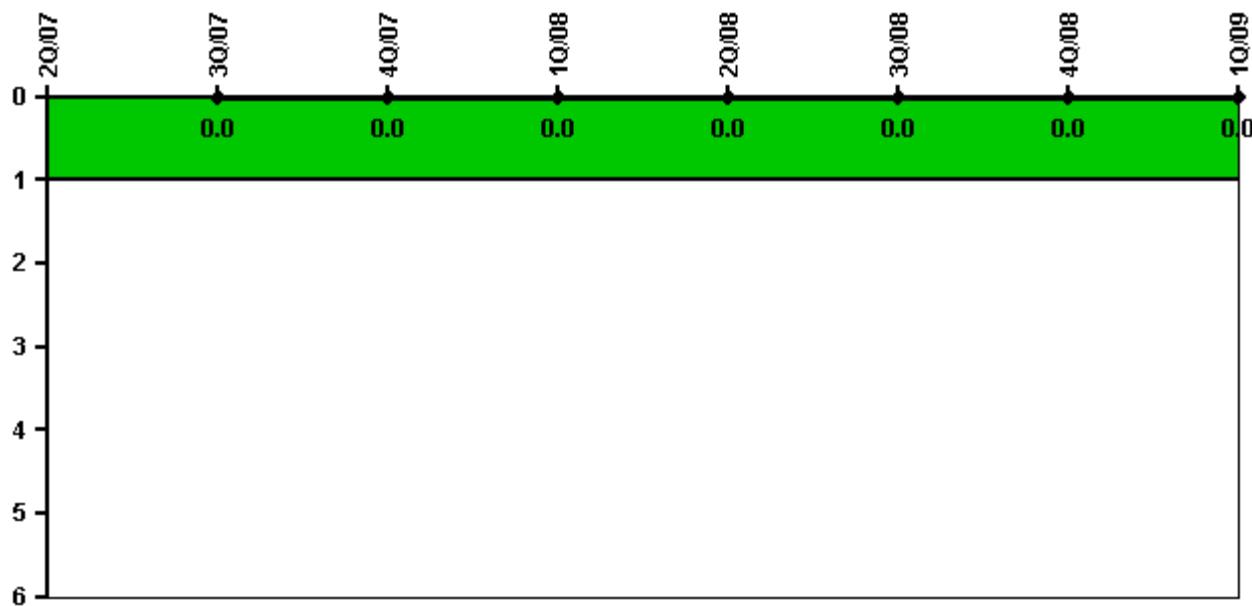
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2184.0	1824.0	1340.3	2183.0	2184.0	2157.2	2209.0	1991.0
Indicator value	0	0	0	0	0.9	0.9	0.8	0.8

Licensee Comments: none

Unplanned Scrams with Complications



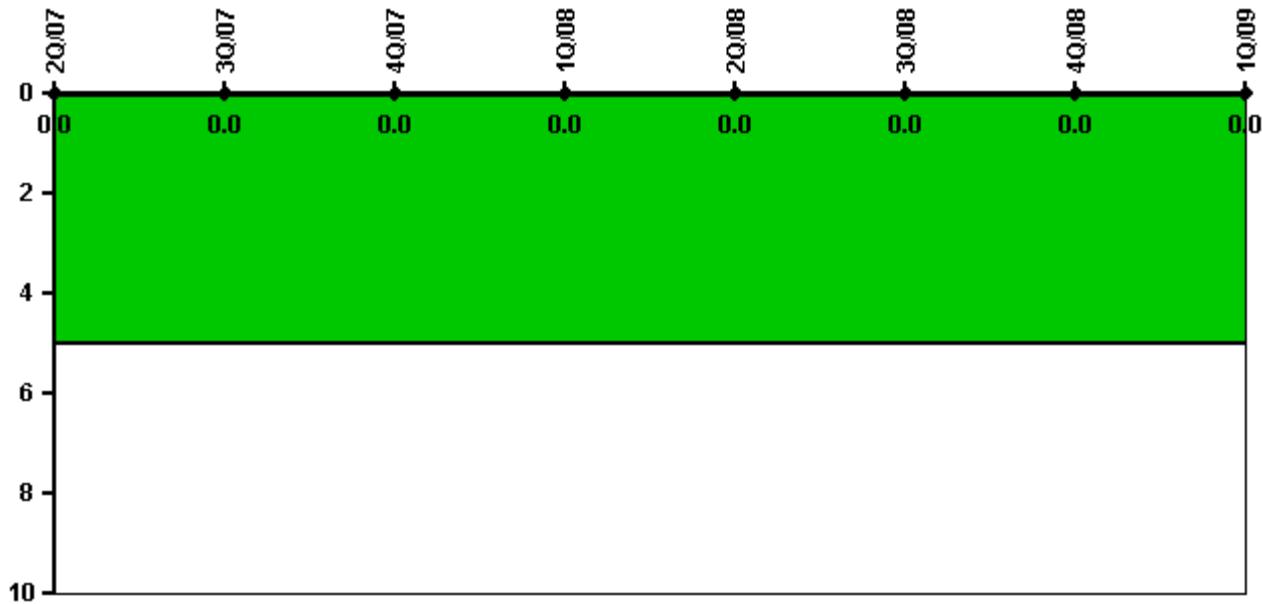
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value		0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



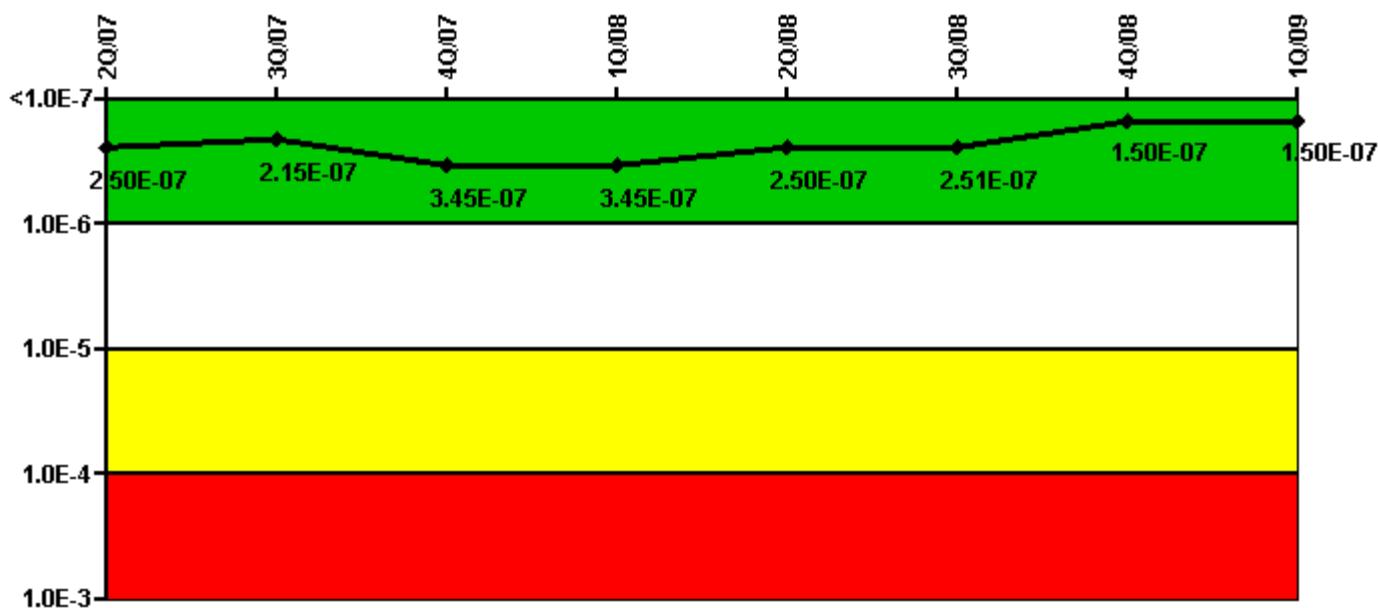
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



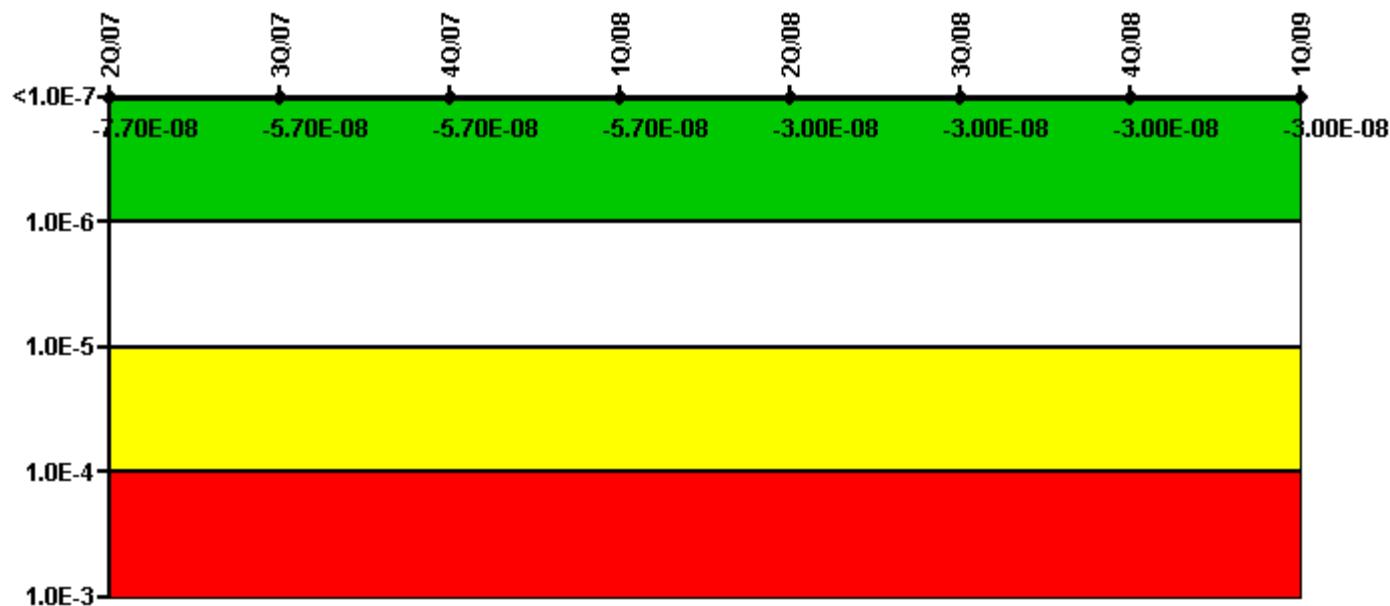
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (Δ CDF)	1.00E-08	5.40E-09	5.00E-09	4.90E-09	-2.80E-11	8.10E-10	4.10E-10	1.80E-10
URI (Δ CDF)	2.40E-07	2.10E-07	3.40E-07	3.40E-07	2.50E-07	2.50E-07	1.50E-07	1.50E-07
PLE	NO							
Indicator value	2.50E-07	2.15E-07	3.45E-07	3.45E-07	2.50E-07	2.51E-07	1.50E-07	1.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



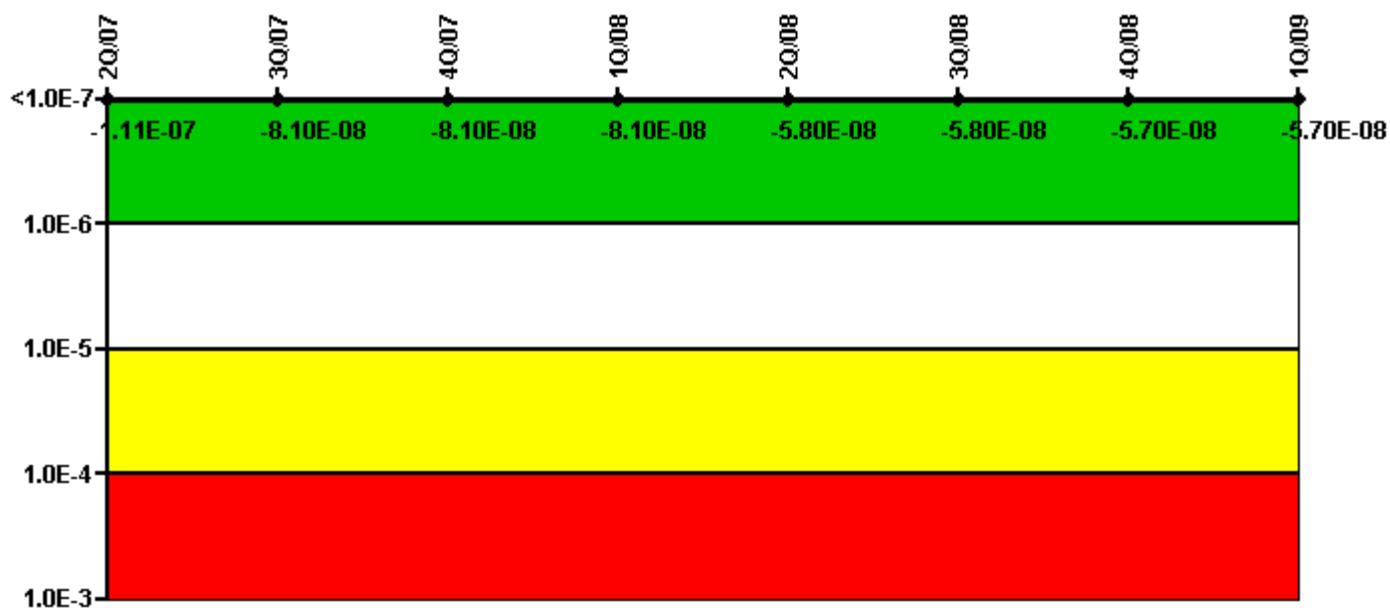
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (Δ CDF)	-3.50E-08	-2.20E-08	-2.20E-08	-2.20E-08	-4.40E-11	-4.10E-11	-4.40E-11	-4.40E-11
URI (Δ CDF)	-4.20E-08	-3.50E-08	-3.50E-08	-3.50E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08
PLE	NO							
Indicator value	-7.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



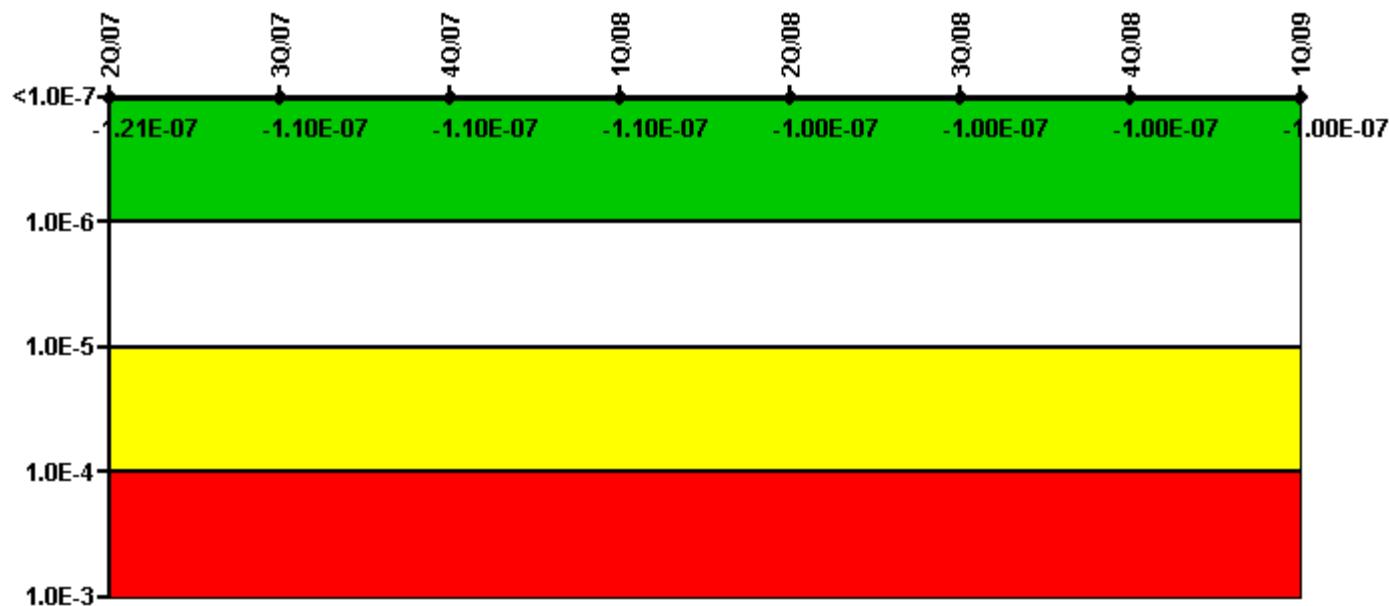
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	-3.40E-08	-2.20E-08	-2.20E-08	-2.20E-08	-4.00E-11	-4.00E-11	-4.00E-11	-4.00E-11
URI (ΔCDF)	-7.70E-08	-5.90E-08	-5.90E-08	-5.90E-08	-5.80E-08	-5.80E-08	-5.70E-08	-5.70E-08
PLE	NO							
Indicator value	-1.11E-07	-8.10E-08	-8.10E-08	-8.10E-08	-5.80E-08	-5.80E-08	-5.70E-08	-5.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



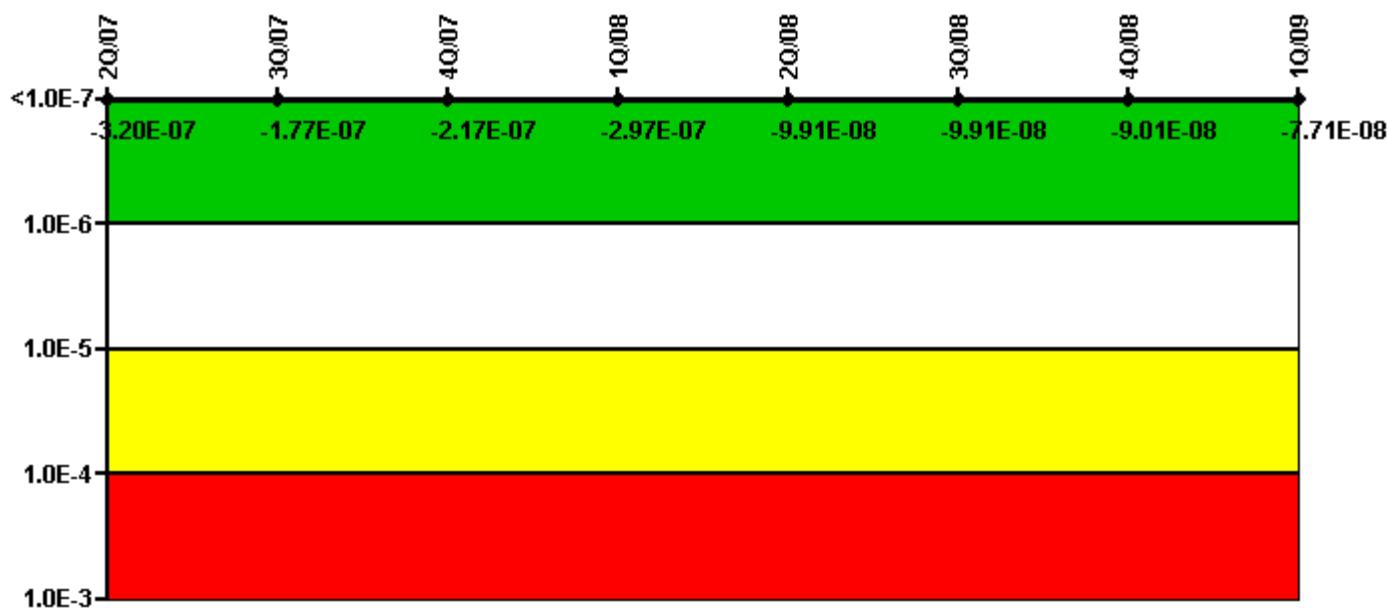
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (Δ CDF)	-8.40E-10	-2.00E-10	-2.00E-10	-2.00E-10	-1.50E-13	-2.50E-13	-2.50E-13	-2.50E-13
URI (Δ CDF)	-1.20E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07
PLE	NO							
Indicator value	-1.21E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



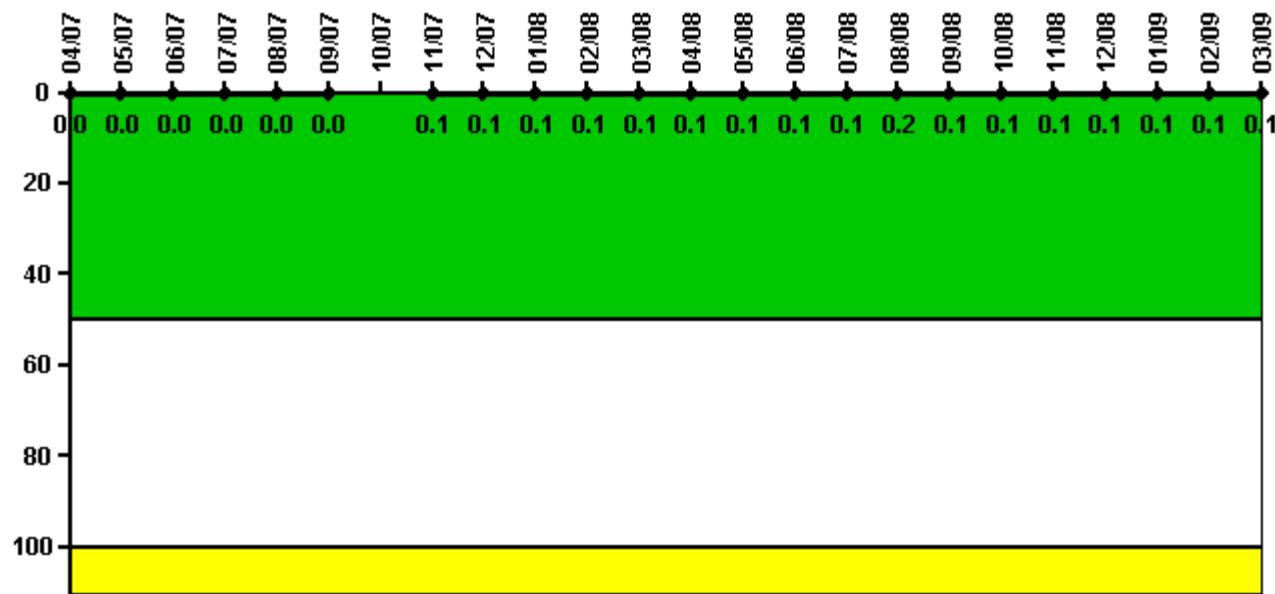
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (Δ CDF)	-1.10E-07	-1.00E-07	-1.40E-07	-2.20E-07	-7.80E-11	-9.20E-11	-5.60E-11	-5.30E-11
URI (Δ CDF)	-2.10E-07	-7.70E-08	-7.70E-08	-7.70E-08	-9.90E-08	-9.90E-08	-9.00E-08	-7.70E-08
PLE	NO							
Indicator value	-3.20E-07	-1.77E-07	-2.17E-07	-2.97E-07	-9.91E-08	-9.91E-08	-9.01E-08	-7.71E-08

Licensee Comments: none

Reactor Coolant System Activity



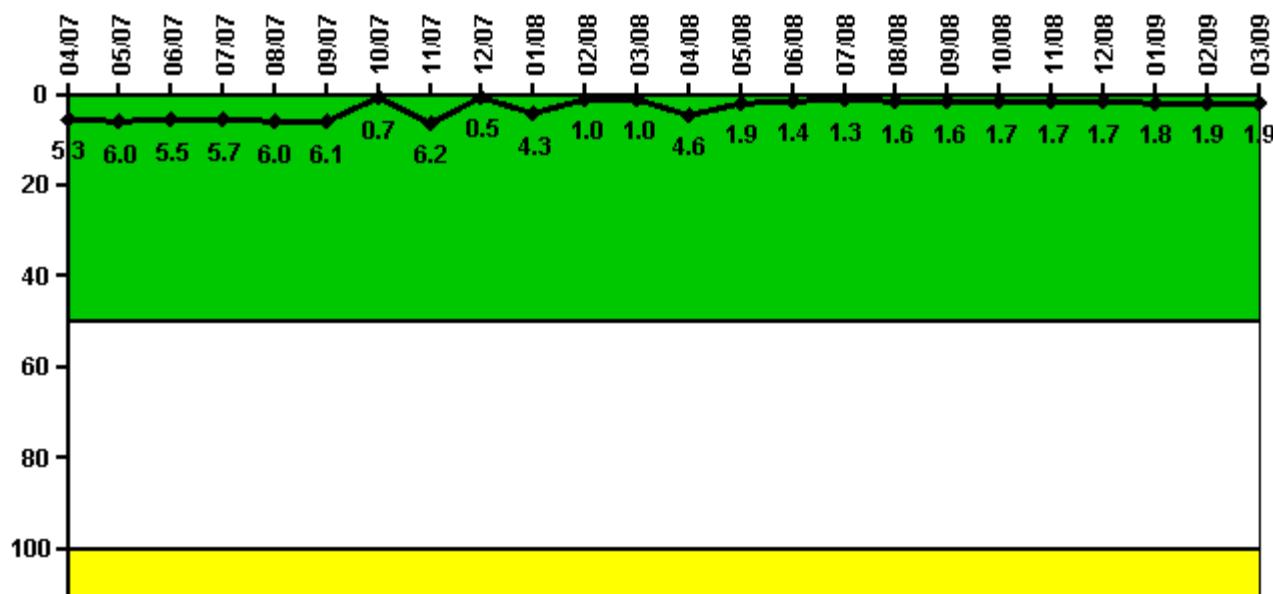
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum activity	0.000228	0.000223	0.000219	0.000216	0.000295	0.000240	N/A	0.000114	0.000127	0.000120	0.000118	0.000141
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	0	0	0	N/A	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum activity	0.000138	0.000138	0.000157	0.000161	0.000355	0.000168	0.000171	0.000173	0.000179	0.000188	0.000185	0.000249
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



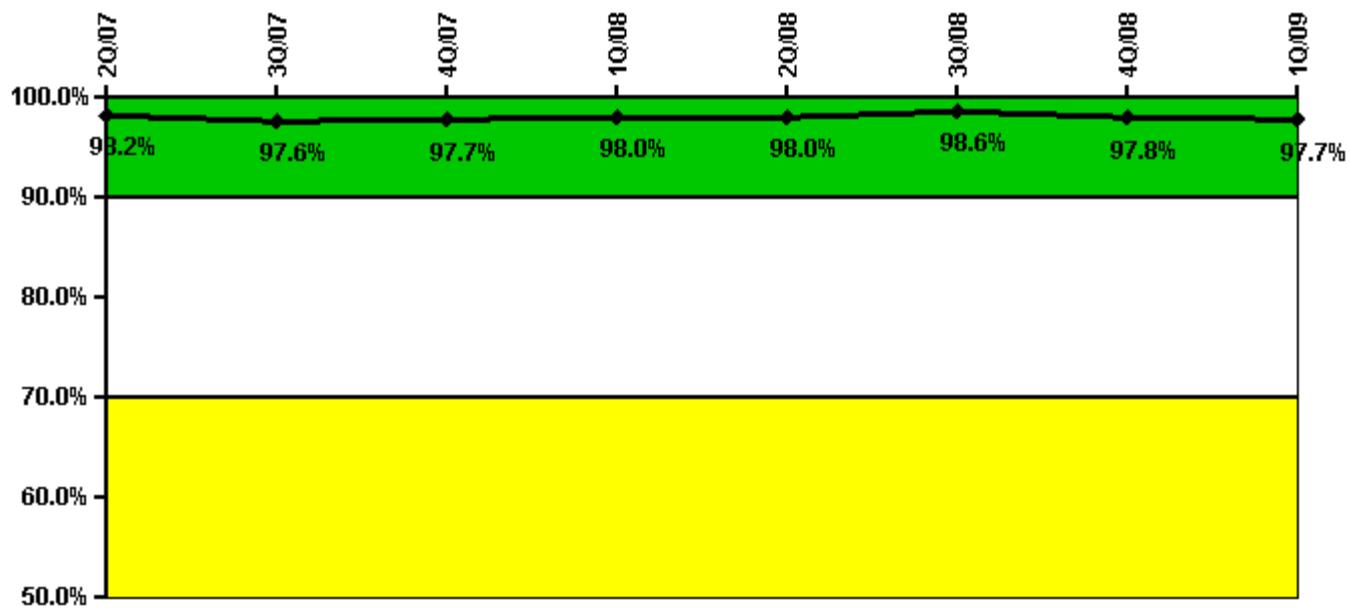
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum leakage	0.586	0.656	0.603	0.626	0.657	0.673	0.075	0.677	0.057	0.475	0.109	0.111
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	5.3	6.0	5.5	5.7	6.0	6.1	0.7	6.2	0.5	4.3	1.0	1.0
Reactor Coolant System Leakage	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum leakage	0.501	0.210	0.158	0.148	0.174	0.174	0.184	0.184	0.187	0.200	0.211	0.207
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	4.6	1.9	1.4	1.3	1.6	1.6	1.7	1.7	1.7	1.8	1.9	1.9

Licensee Comments: none

Drill/Exercise Performance



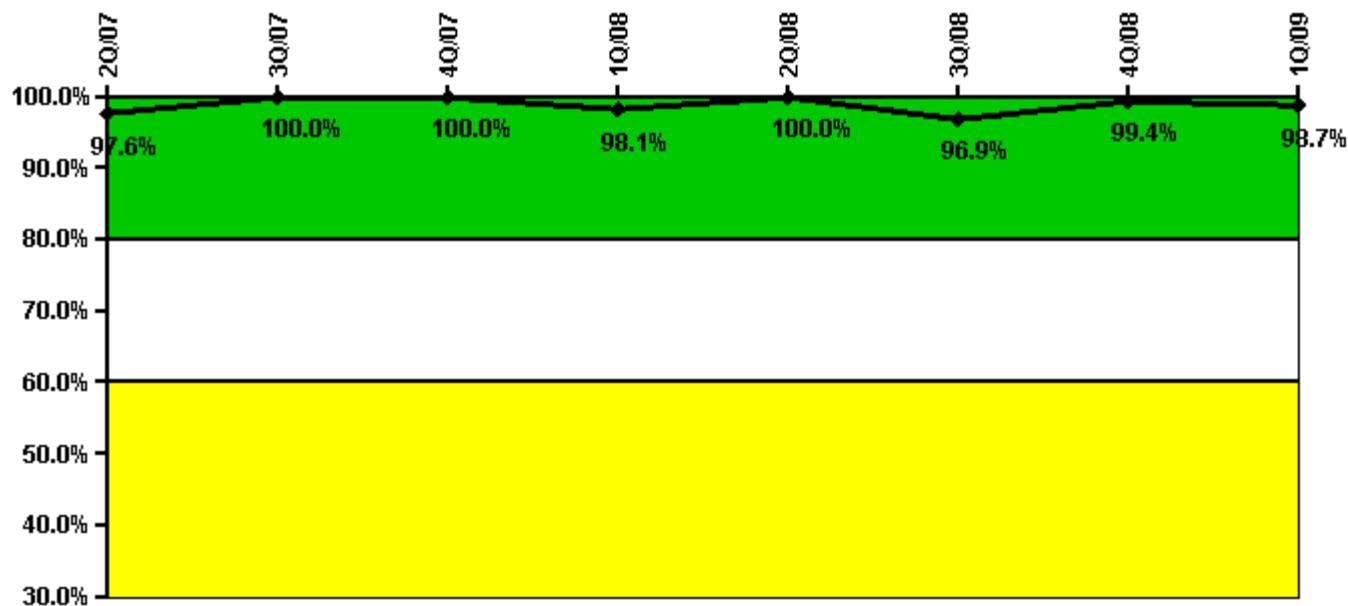
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful opportunities	121.0	43.0	51.0	87.0	27.0	132.0	96.0	47.0
Total opportunities	121.0	50.0	51.0	89.0	27.0	132.0	101.0	47.0
Indicator value	98.2%	97.6%	97.7%	98.0%	98.0%	98.6%	97.8%	97.7%

Licensee Comments: none

ERO Drill Participation



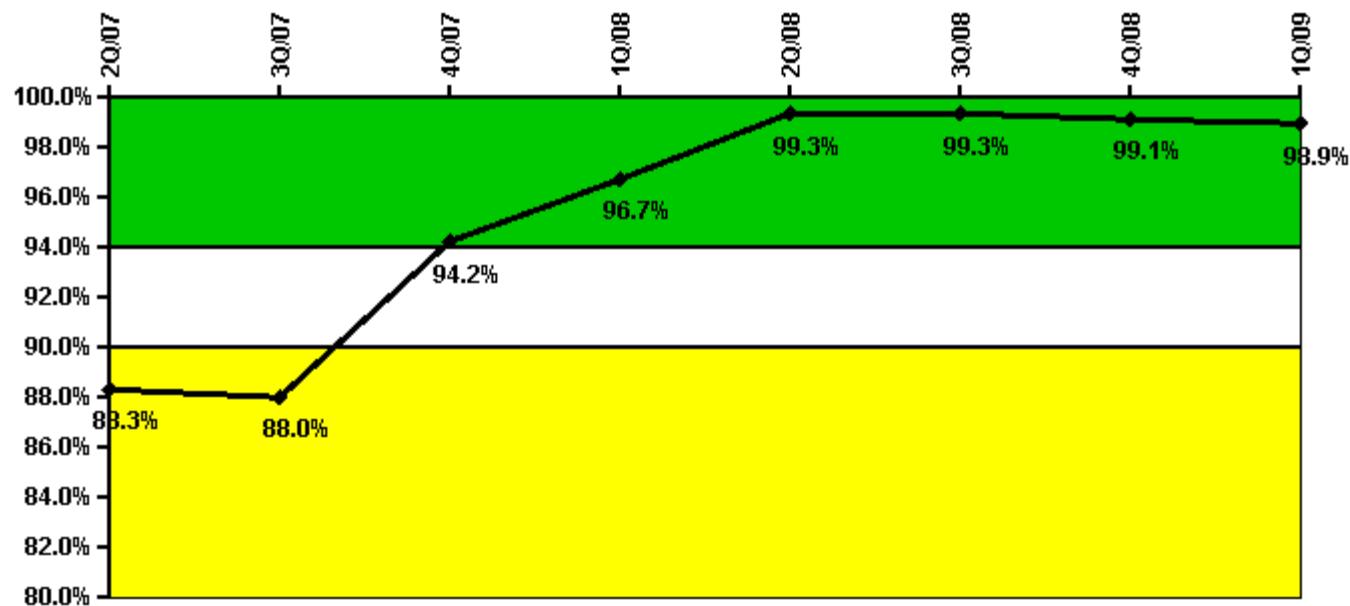
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Participating Key personnel	165.0	161.0	160.0	151.0	157.0	155.0	153.0	156.0
Total Key personnel	169.0	161.0	160.0	154.0	157.0	160.0	154.0	158.0
Indicator value	97.6%	100.0%	100.0%	98.1%	100.0%	96.9%	99.4%	98.7%

Licensee Comments: none

Alert & Notification System



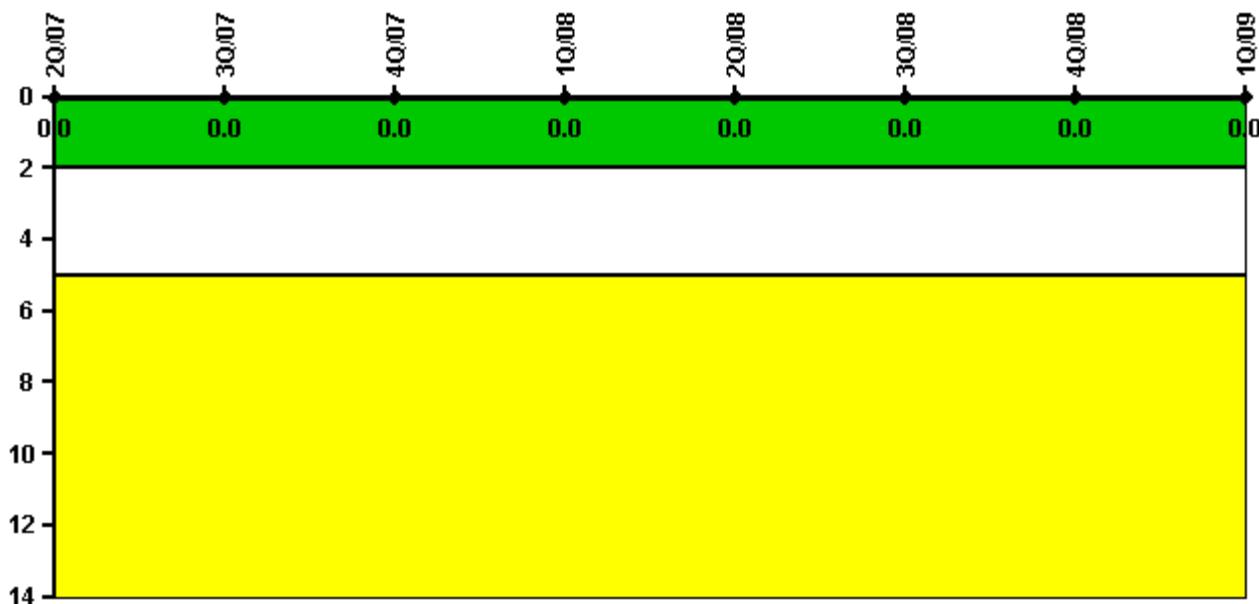
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful siren-tests	128	197	1108	1112	1112	1111	1171	1035
Total sirens-tests	197	198	1116	1120	1119	1120	1190	1050
Indicator value	88.3%	88.0%	94.2%	96.7%	99.3%	99.3%	99.1%	98.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



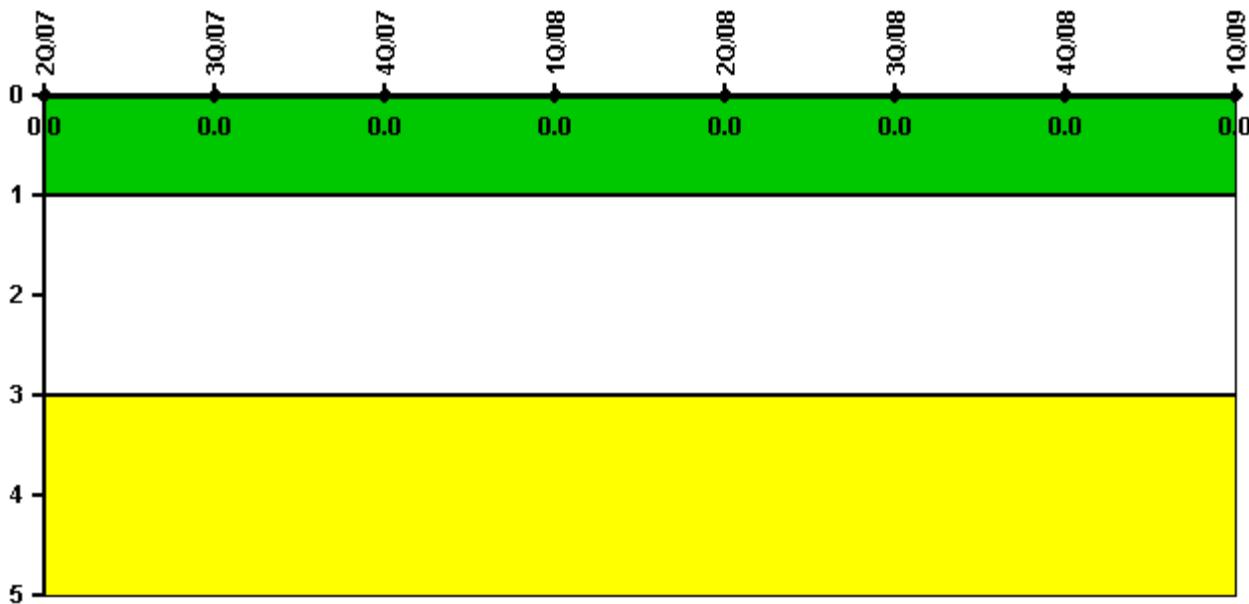
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Security](#) information not publicly available.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

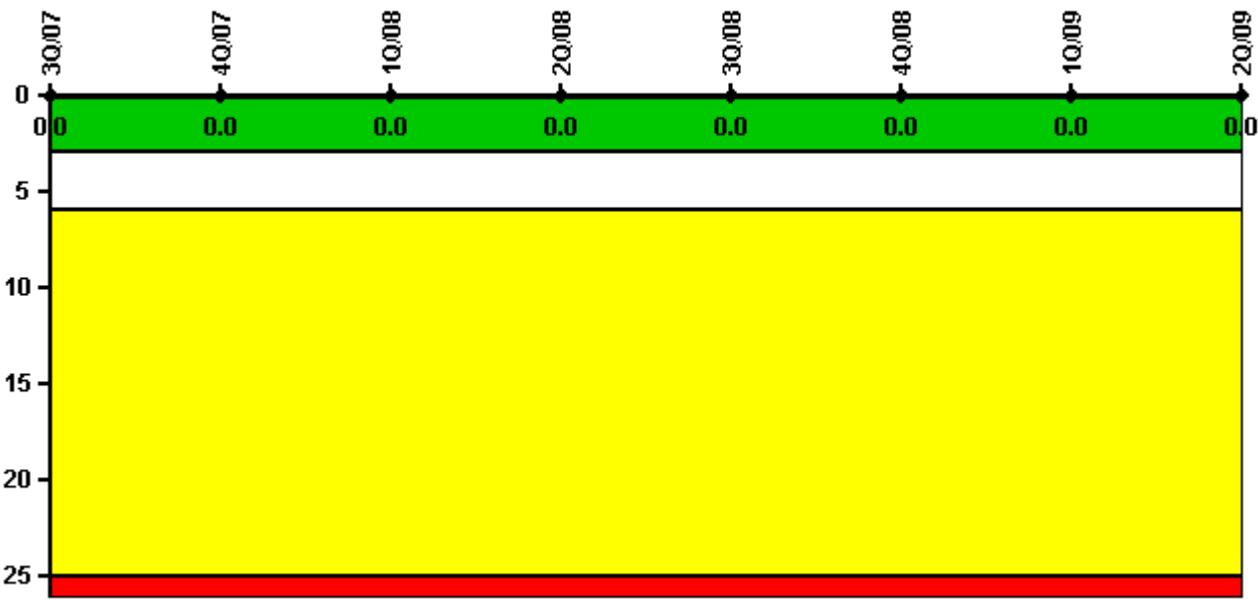
Last Modified: May 1, 2009

D.C. Cook 2

2Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



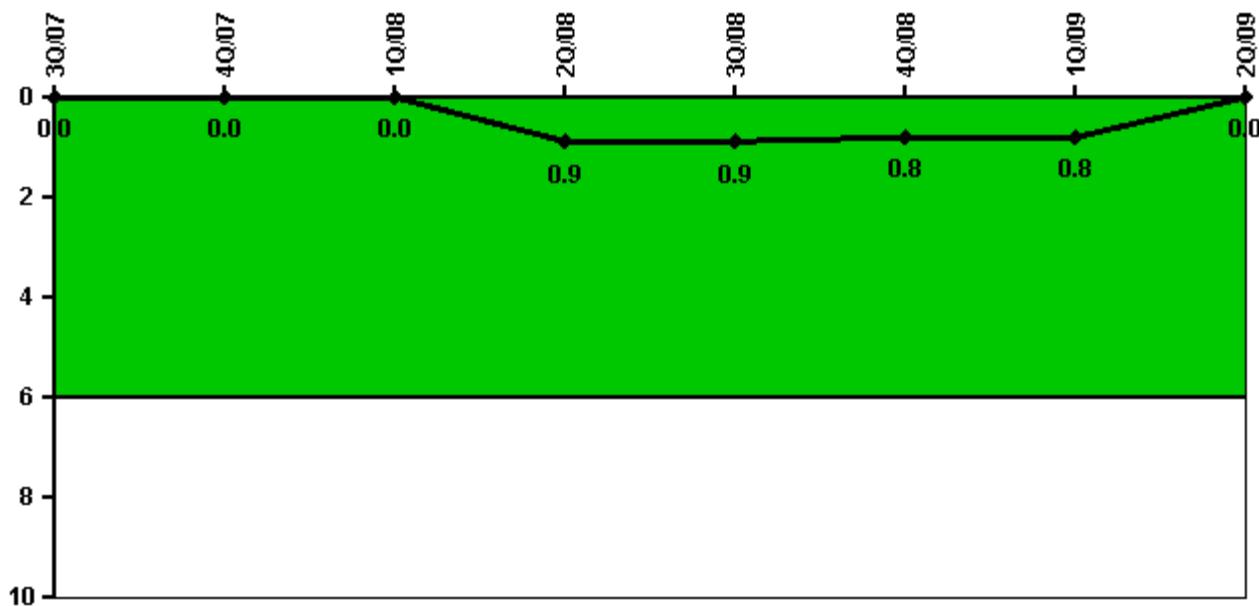
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1824.0	1340.3	2183.0	2184.0	2157.2	2209.0	1991.0	1489.3
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



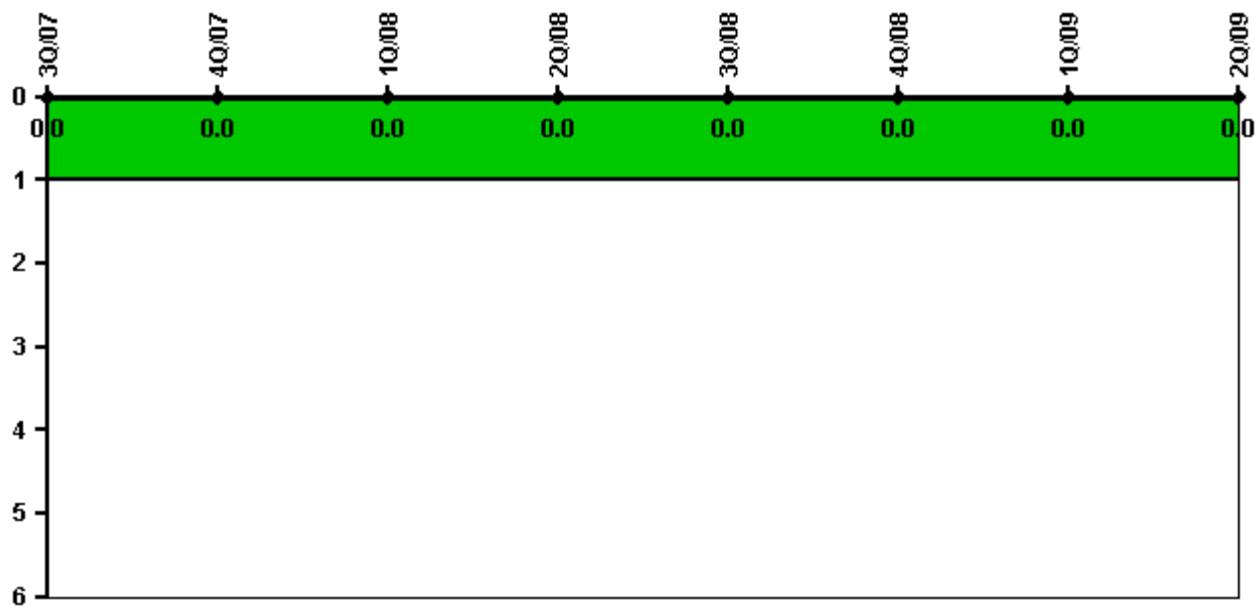
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	1824.0	1340.3	2183.0	2184.0	2157.2	2209.0	1991.0	1489.3
Indicator value	0	0	0	0.9	0.9	0.8	0.8	0

Licensee Comments: none

Unplanned Scrams with Complications



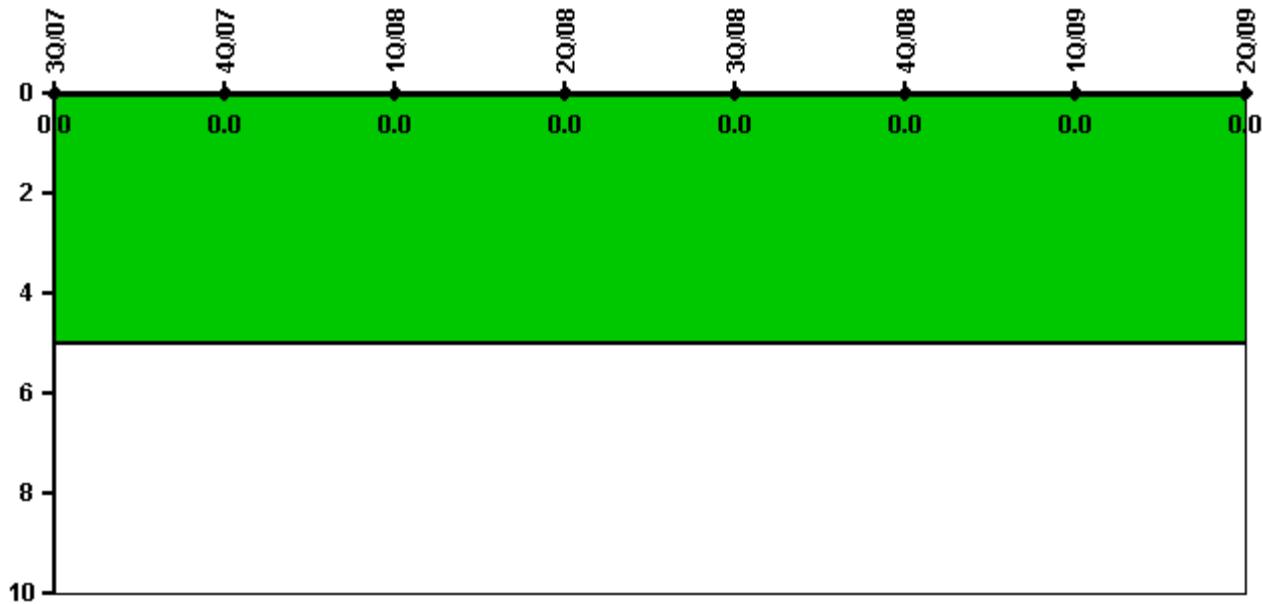
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



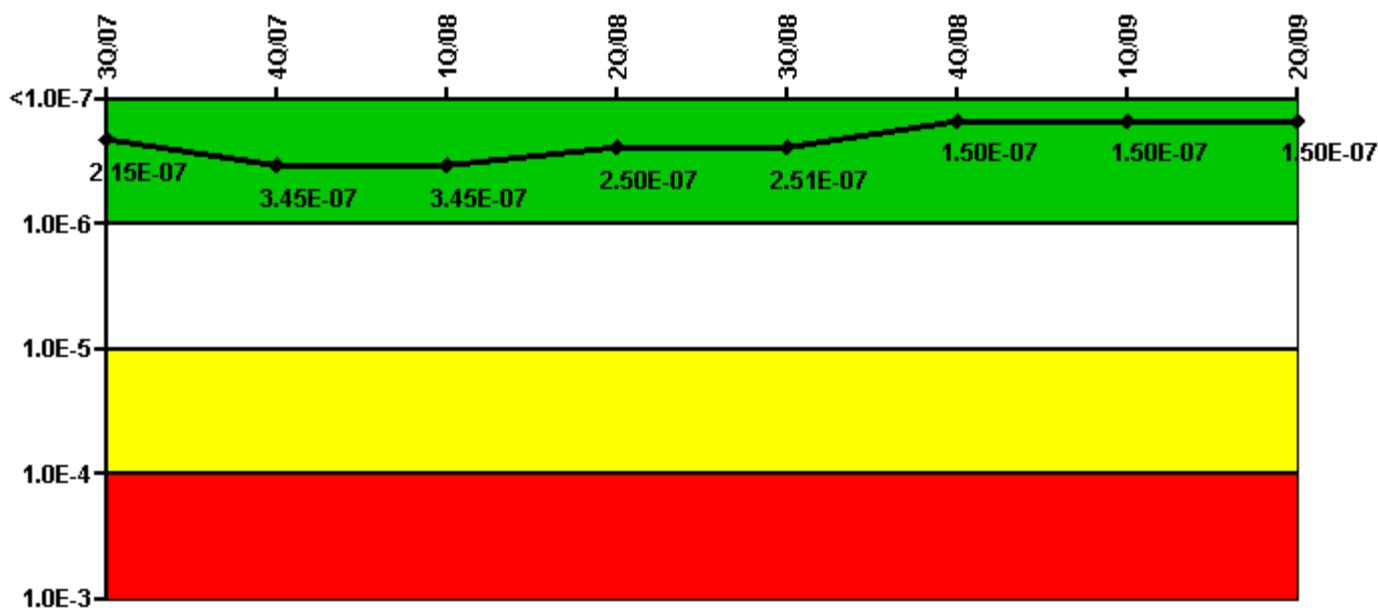
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



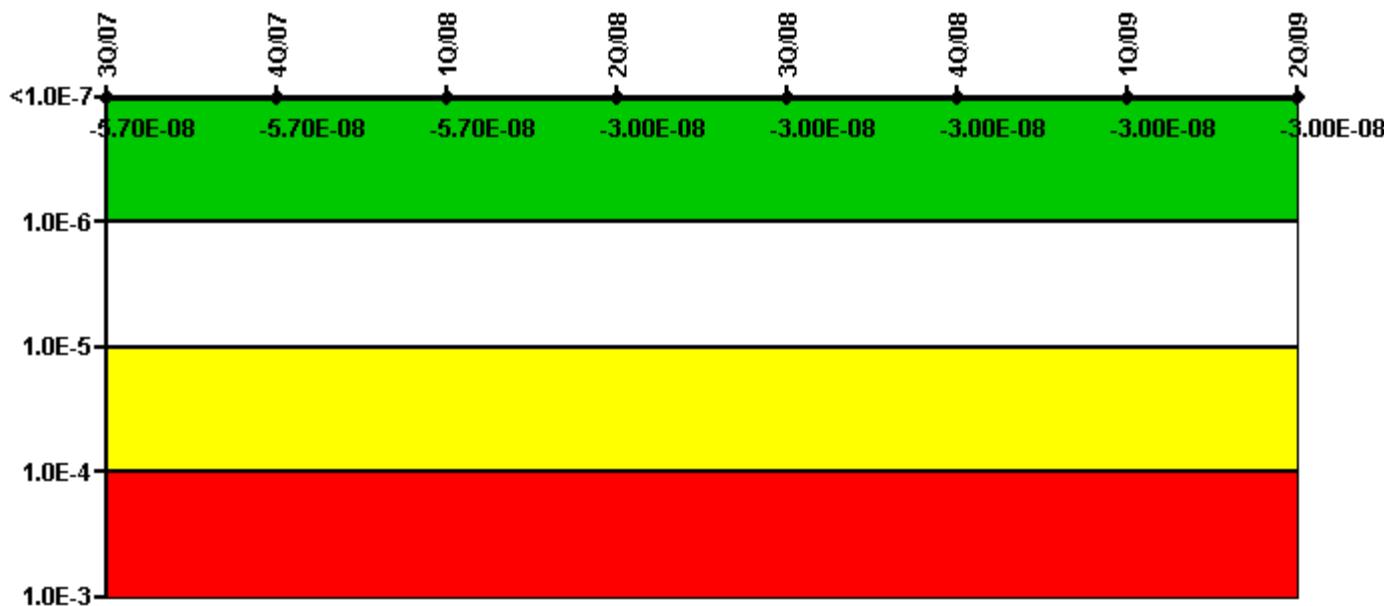
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (Δ CDF)	5.40E-09	5.00E-09	4.90E-09	-2.80E-11	8.10E-10	4.10E-10	1.80E-10	4.20E-10
URI (Δ CDF)	2.10E-07	3.40E-07	3.40E-07	2.50E-07	2.50E-07	1.50E-07	1.50E-07	1.50E-07
PLE	NO							
Indicator value	2.15E-07	3.45E-07	3.45E-07	2.50E-07	2.51E-07	1.50E-07	1.50E-07	1.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



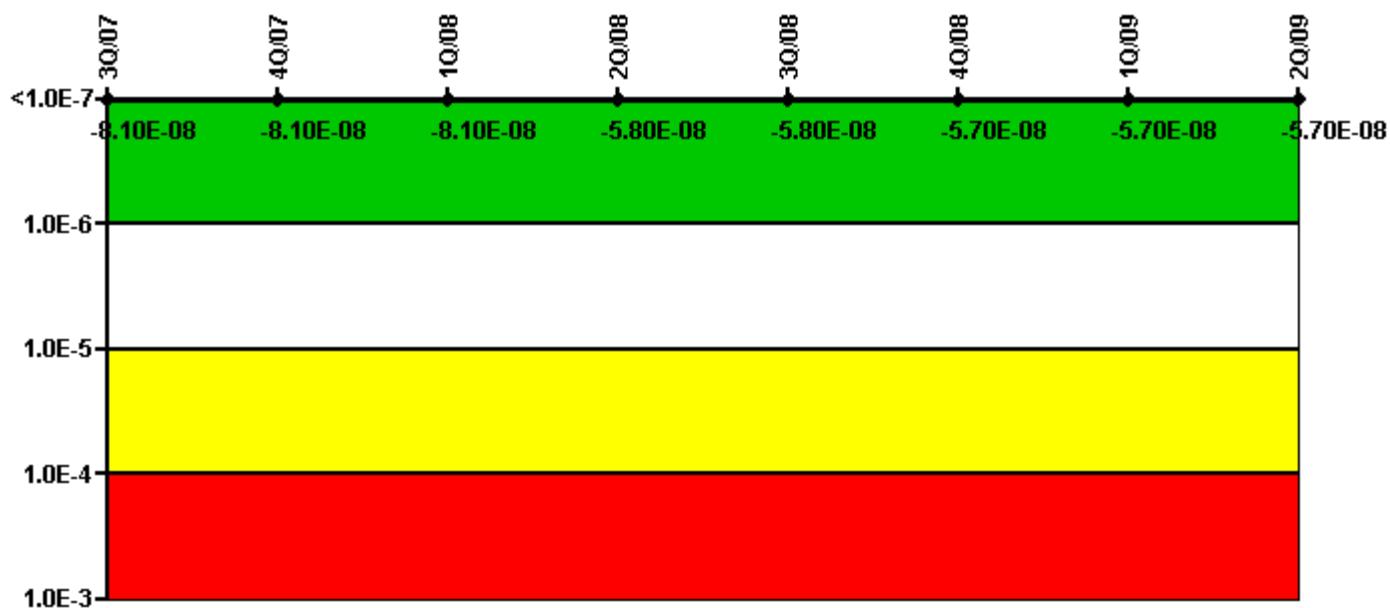
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (Δ CDF)	-2.20E-08	-2.20E-08	-2.20E-08	-4.40E-11	-4.10E-11	-4.40E-11	-4.40E-11	-4.40E-11
URI (Δ CDF)	-3.50E-08	-3.50E-08	-3.50E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08
PLE	NO							
Indicator value	-5.70E-08	-5.70E-08	-5.70E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



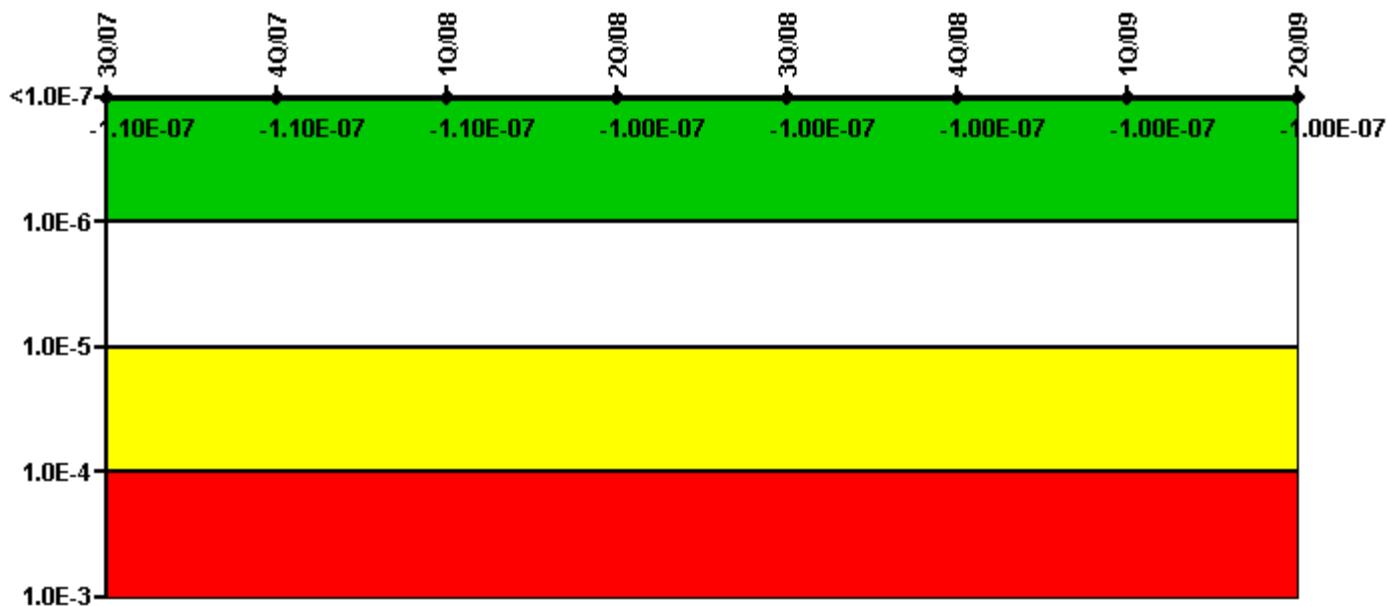
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-4.00E-11	-4.00E-11	-4.00E-11	-4.00E-11	-4.00E-11
URI (ΔCDF)	-5.90E-08	-5.90E-08	-5.90E-08	-5.80E-08	-5.80E-08	-5.70E-08	-5.70E-08	-5.70E-08
PLE	NO							
Indicator value	-8.10E-08	-8.10E-08	-8.10E-08	-5.80E-08	-5.80E-08	-5.70E-08	-5.70E-08	-5.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



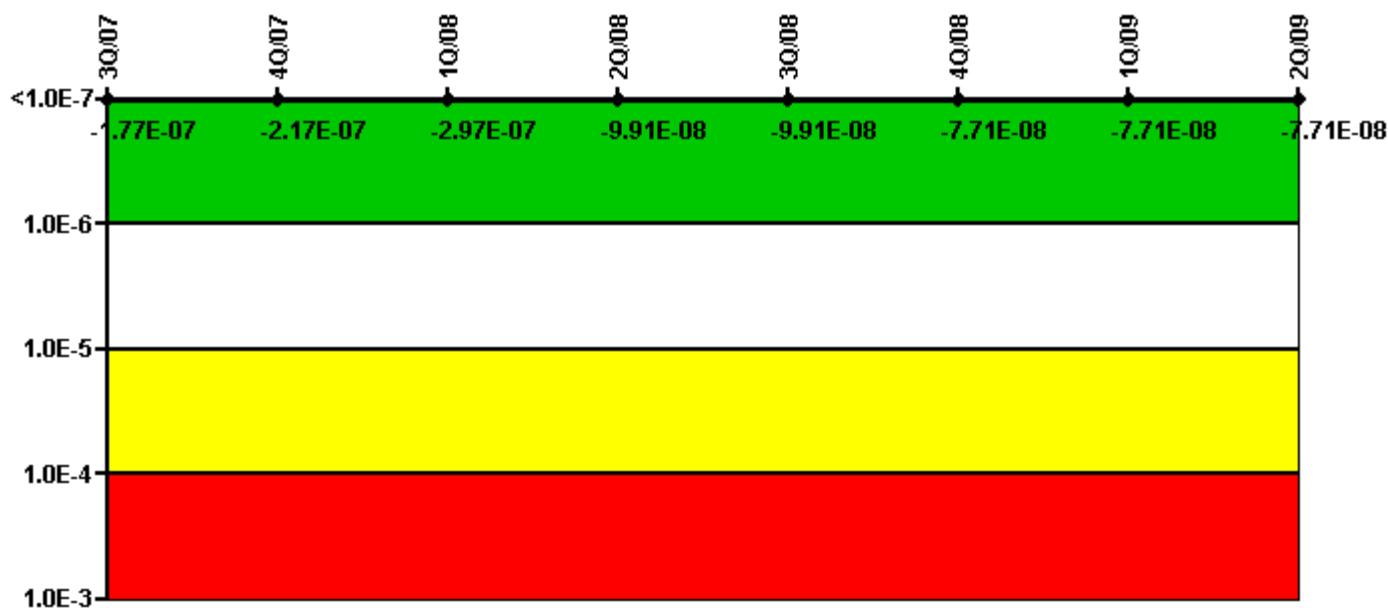
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (Δ CDF)	-2.00E-10	-2.00E-10	-2.00E-10	-1.50E-13	-2.50E-13	-2.50E-13	-2.50E-13	-2.50E-13
URI (Δ CDF)	-1.10E-07	-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07
PLE	NO							
Indicator value	-1.10E-07	-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



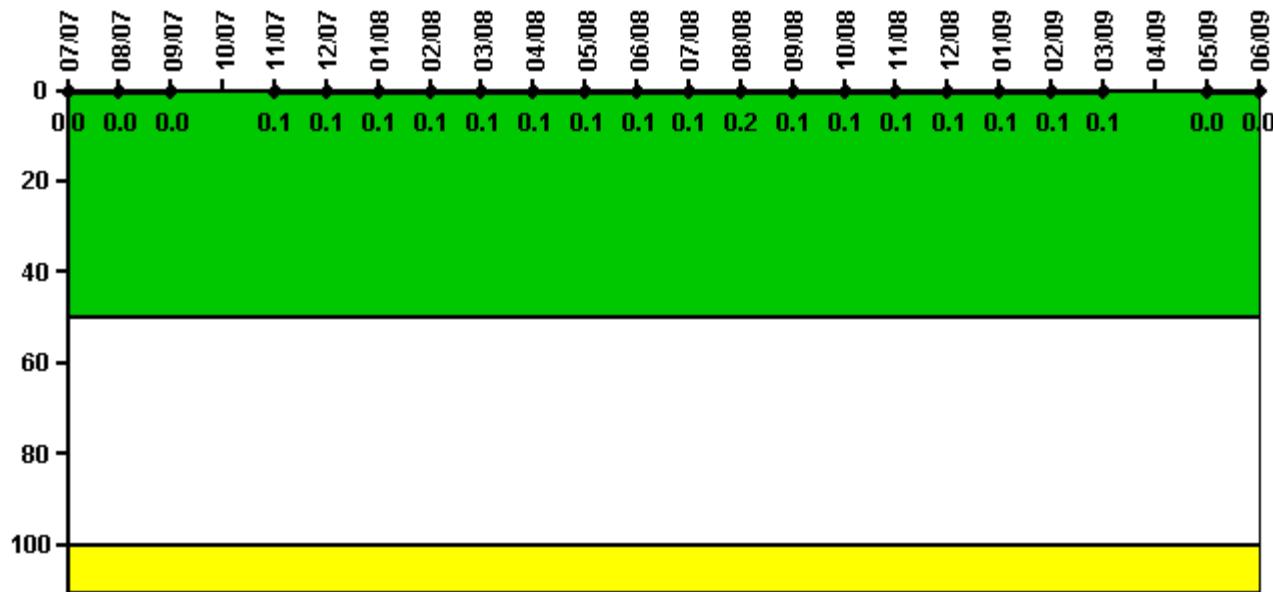
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	-1.00E-07	-1.40E-07	-2.20E-07	-7.80E-11	-9.20E-11	-5.60E-11	-5.30E-11	-5.40E-11
URI (ΔCDF)	-7.70E-08	-7.70E-08	-7.70E-08	-9.90E-08	-9.90E-08	-7.70E-08	-7.70E-08	-7.70E-08
PLE	NO							
Indicator value	-1.77E-07	-2.17E-07	-2.97E-07	-9.91E-08	-9.91E-08	-7.71E-08	-7.71E-08	-7.71E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

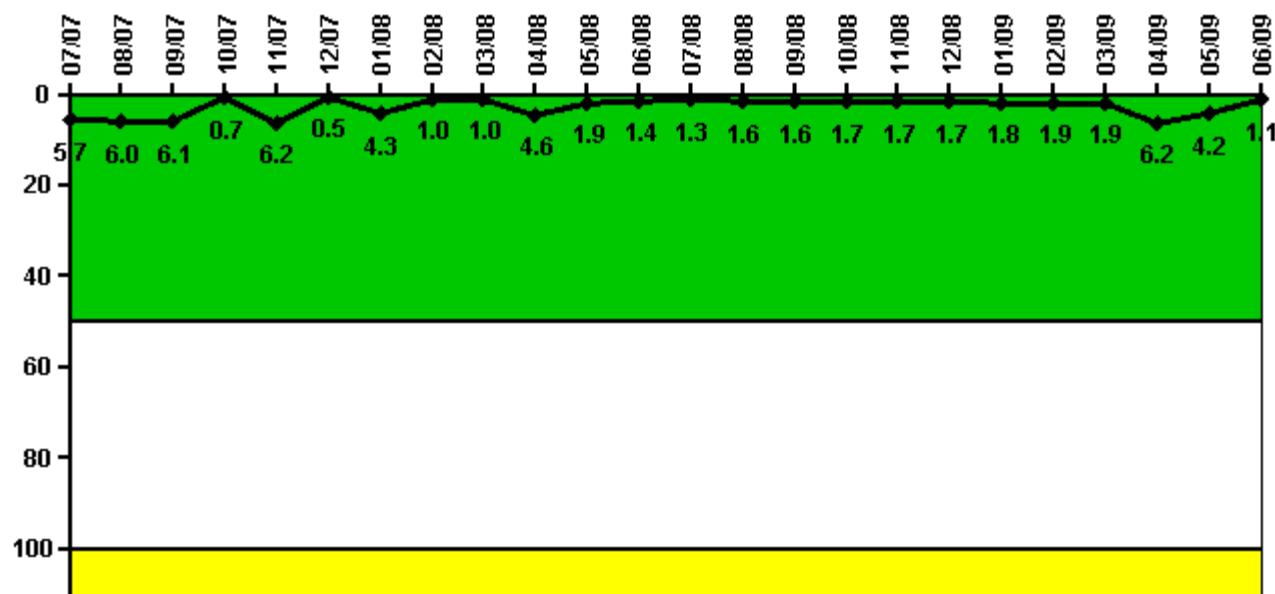
Notes

Reactor Coolant System Activity	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum activity	0.0000216	0.0000295	0.0000240	N/A	0.0000114	0.0000127	0.0000120	0.0000118	0.0000141	0.0000138	0.0000138	0.0000157
Technical specification limit	1.0	1.0	1.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum activity	0.000161	0.000355	0.000168	0.000171	0.000173	0.000179	0.000188	0.000185	0.000249	N/A	0.000135	0.000124
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.0	1.0	1.0
Indicator value	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N/A	0	0

Licensee Comments:

6/09: Unit 2 was in a refueling outage during April 2009 - No data provided

Reactor Coolant System Leakage



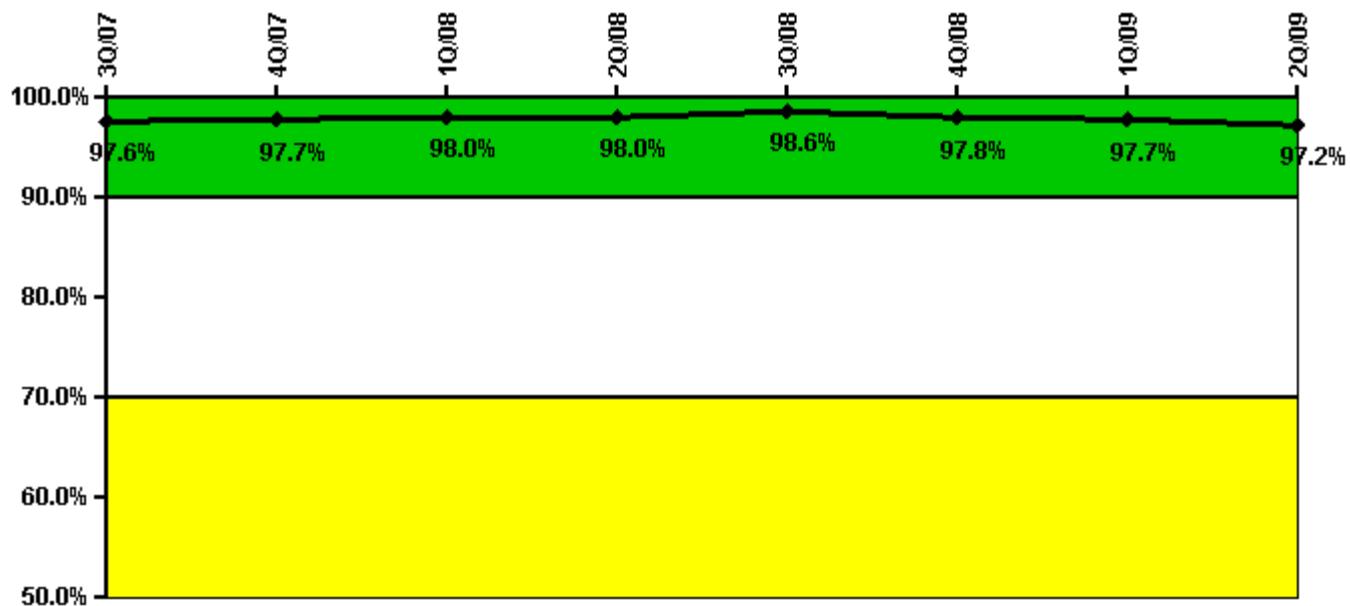
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum leakage	0.626	0.657	0.673	0.075	0.677	0.057	0.475	0.109	0.111	0.501	0.210	0.158
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	5.7	6.0	6.1	0.7	6.2	0.5	4.3	1.0	1.0	4.6	1.9	1.4
Reactor Coolant System Leakage	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum leakage	0.148	0.174	0.174	0.184	0.184	0.187	0.200	0.211	0.207	0.677	0.465	0.118
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	1.3	1.6	1.6	1.7	1.7	1.7	1.8	1.9	1.9	6.2	4.2	1.1

Licensee Comments: none

Drill/Exercise Performance



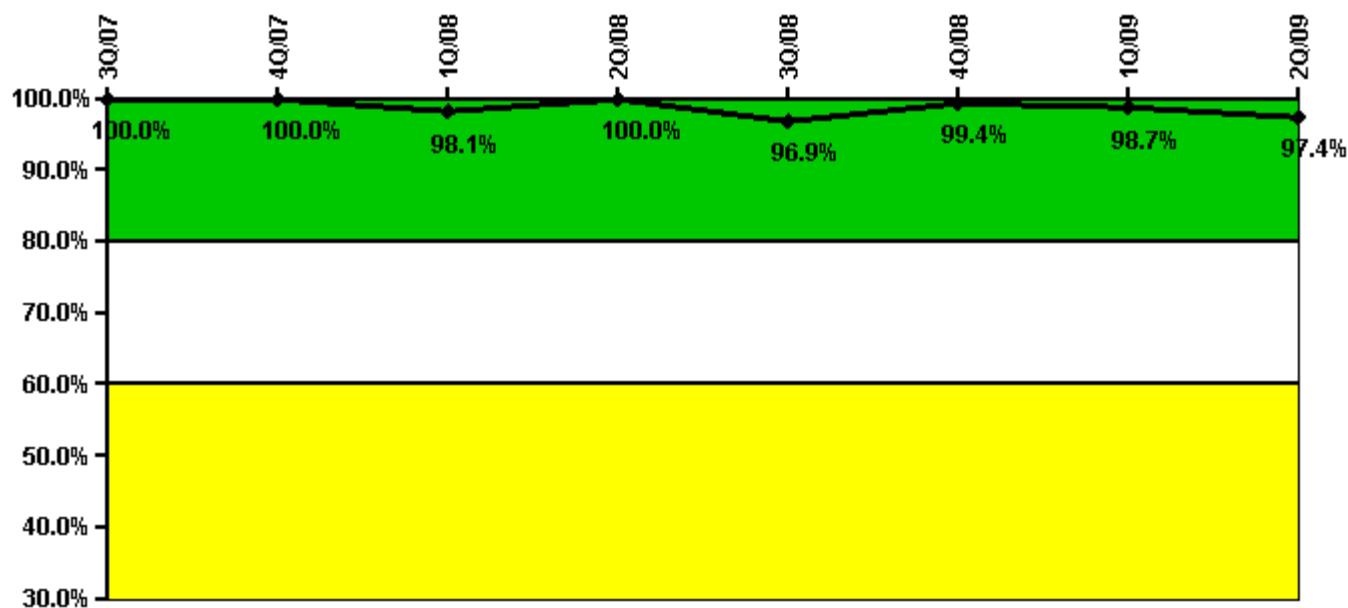
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful opportunities	43.0	51.0	87.0	27.0	132.0	96.0	47.0	5.0
Total opportunities	50.0	51.0	89.0	27.0	132.0	101.0	47.0	5.0
Indicator value	97.6%	97.7%	98.0%	98.0%	98.6%	97.8%	97.7%	97.2%

Licensee Comments: none

ERO Drill Participation



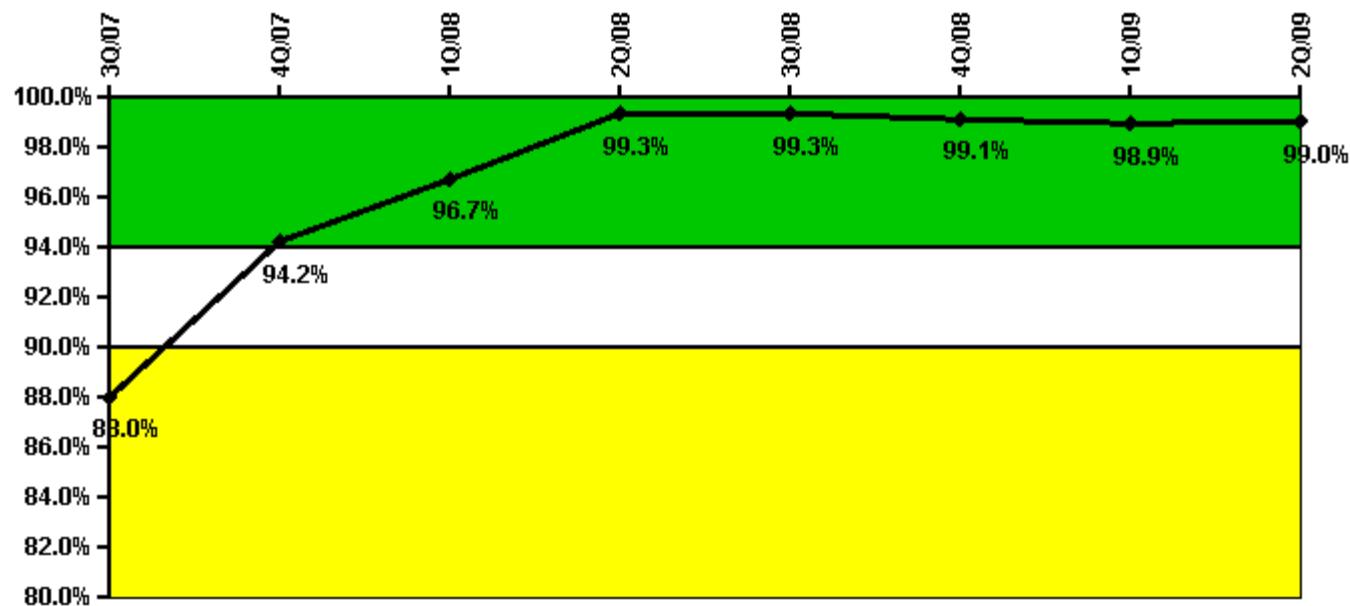
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Participating Key personnel	161.0	160.0	151.0	157.0	155.0	153.0	156.0	152.0
Total Key personnel	161.0	160.0	154.0	157.0	160.0	154.0	158.0	156.0
Indicator value	100.0%	100.0%	98.1%	100.0%	96.9%	99.4%	98.7%	97.4%

Licensee Comments: none

Alert & Notification System



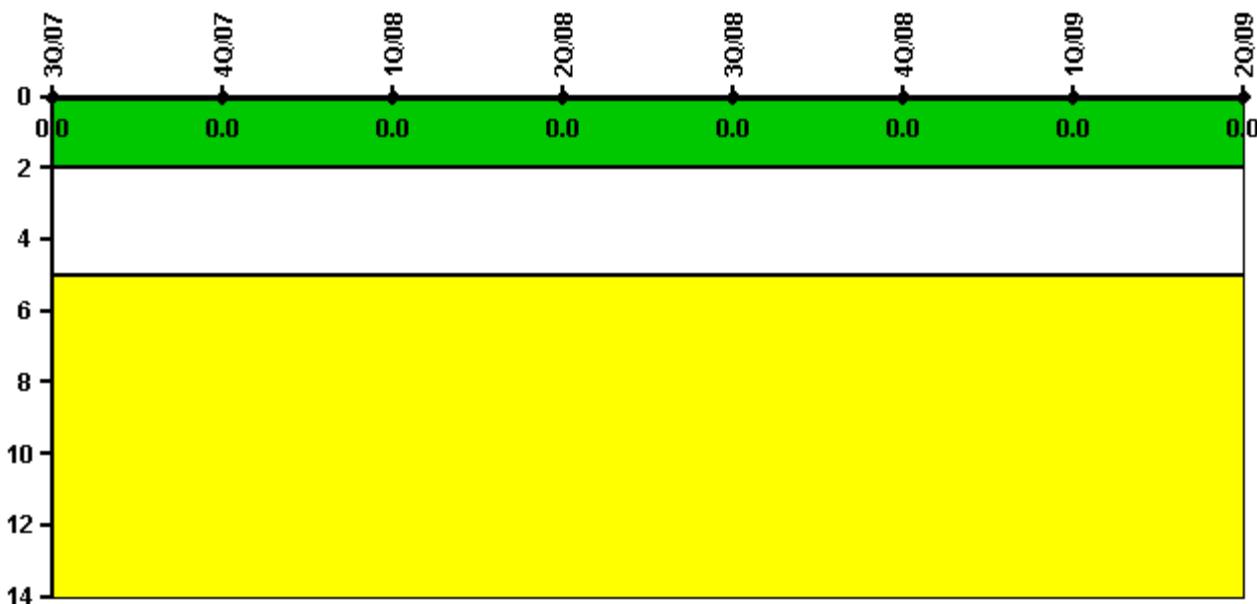
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful siren-tests	197	1108	1112	1112	1111	1171	1035	1117
Total sirens-tests	198	1116	1120	1119	1120	1190	1050	1119
Indicator value	88.0%	94.2%	96.7%	99.3%	99.3%	99.1%	98.9%	99.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



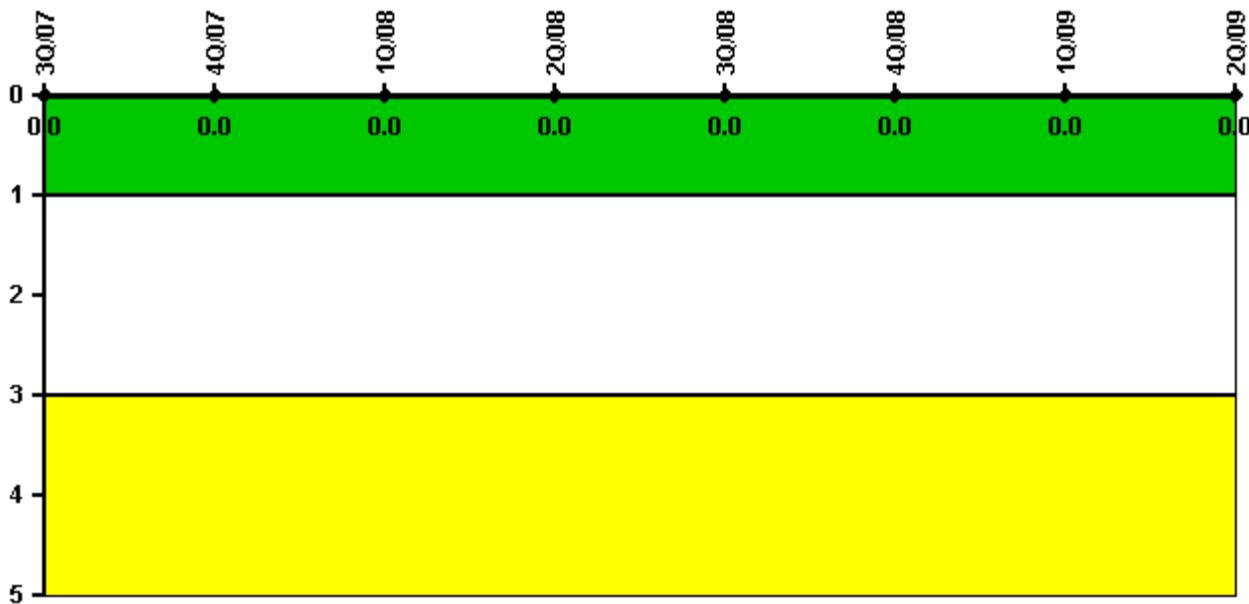
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Security](#) information not publicly available.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

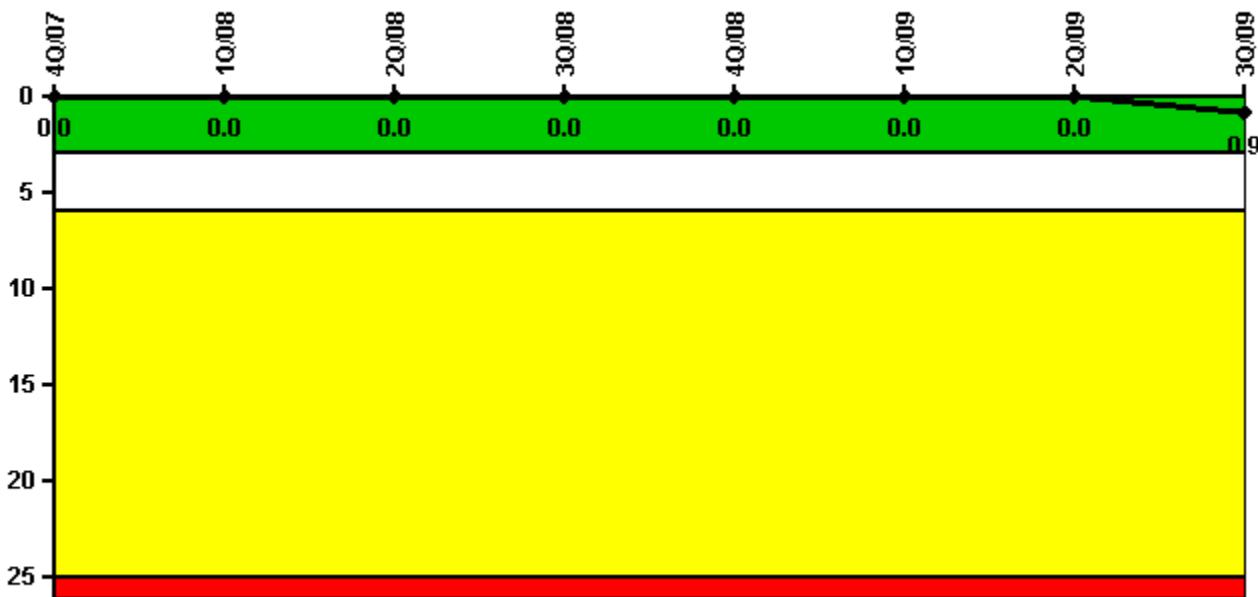
Last Modified: July 22, 2009

D.C. Cook 2

3Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

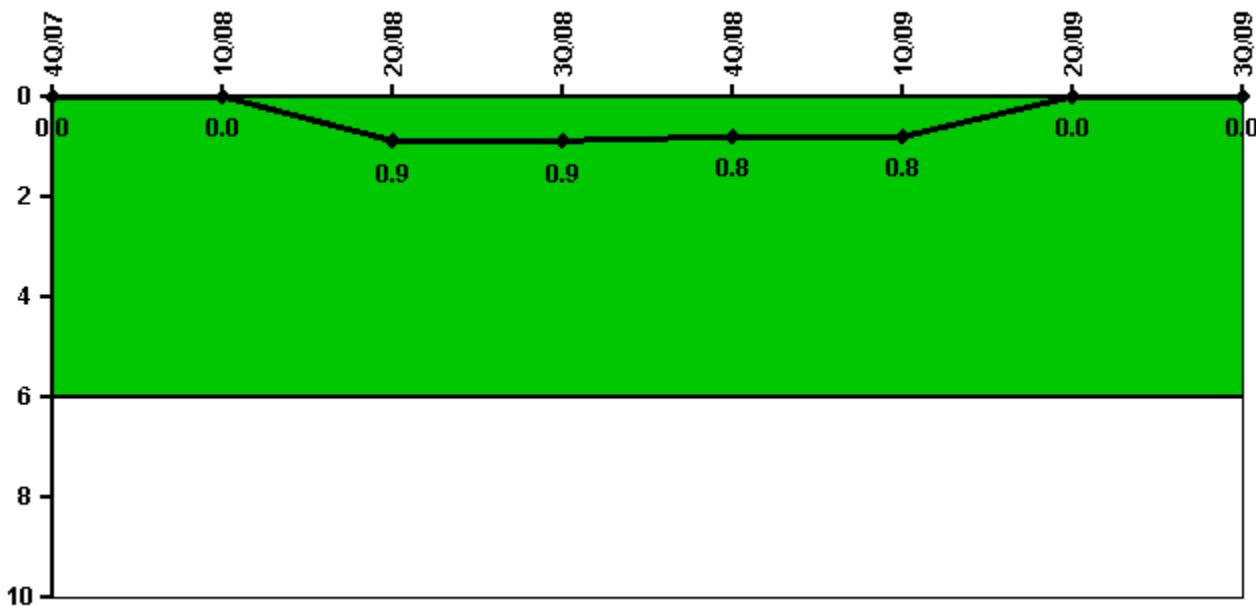
Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	1340.3	2183.0	2184.0	2157.2	2209.0	1991.0	1489.3	1908.0
Indicator value	0	0	0	0	0	0	0	0.9

Licensee Comments:

3Q/09: Reactor manually tripped on July 26 due to reactor coolant pump seal failure.

Unplanned Power Changes per 7000 Critical Hrs



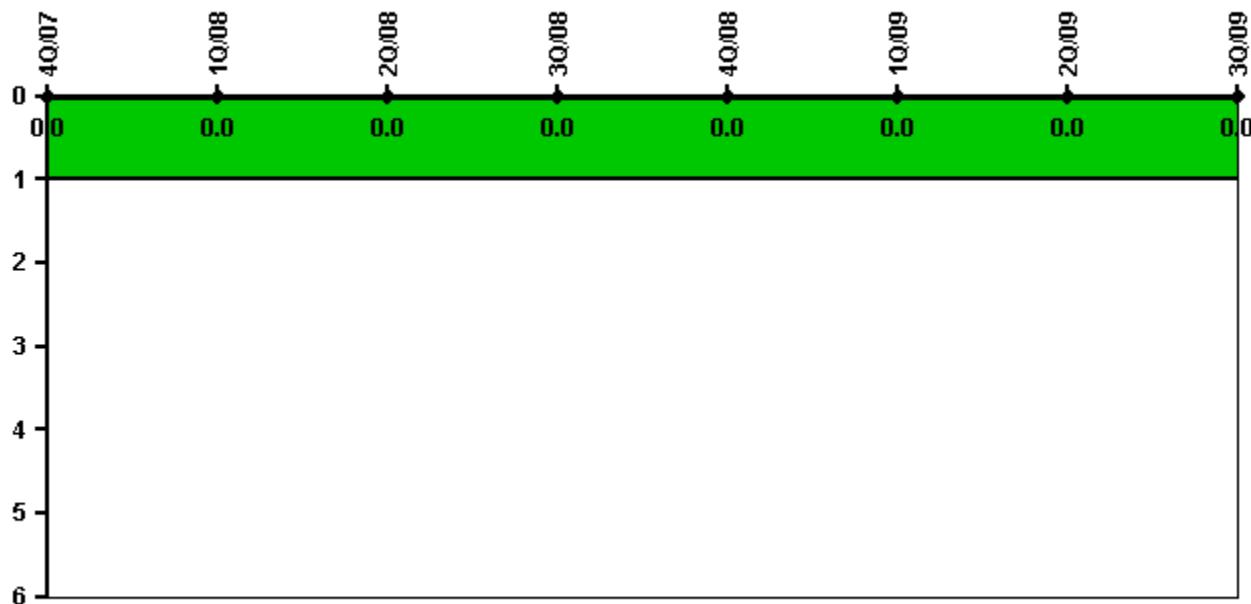
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	1340.3	2183.0	2184.0	2157.2	2209.0	1991.0	1489.3	1908.0
Indicator value	0	0	0.9	0.9	0.8	0.8	0	0

Licensee Comments: none

Unplanned Scrams with Complications



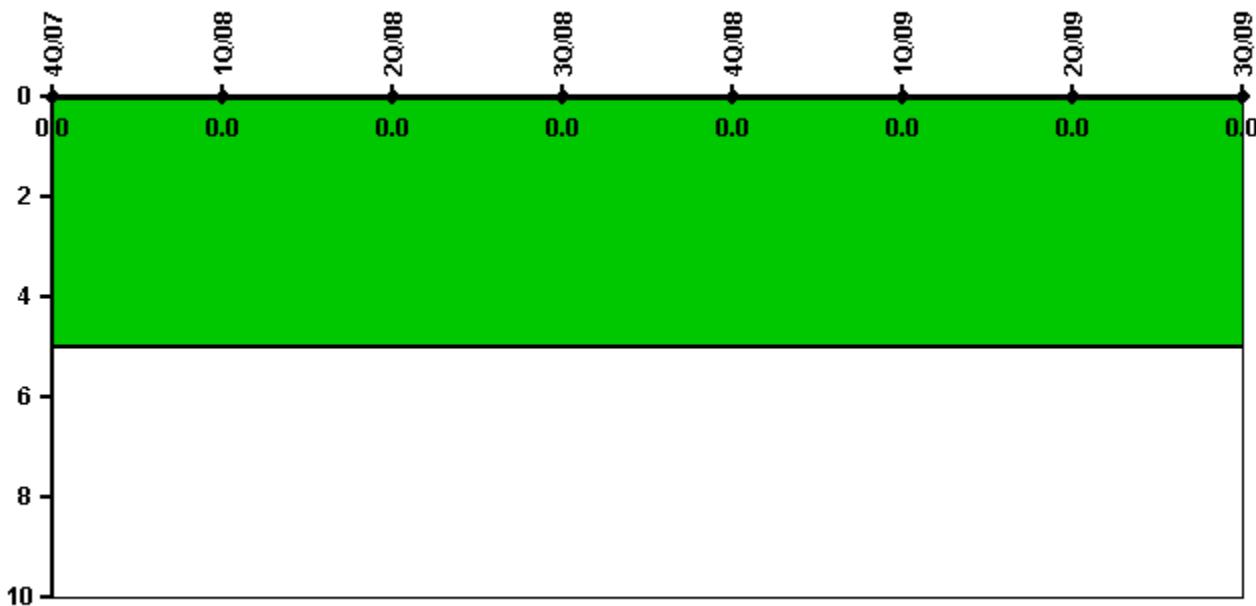
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



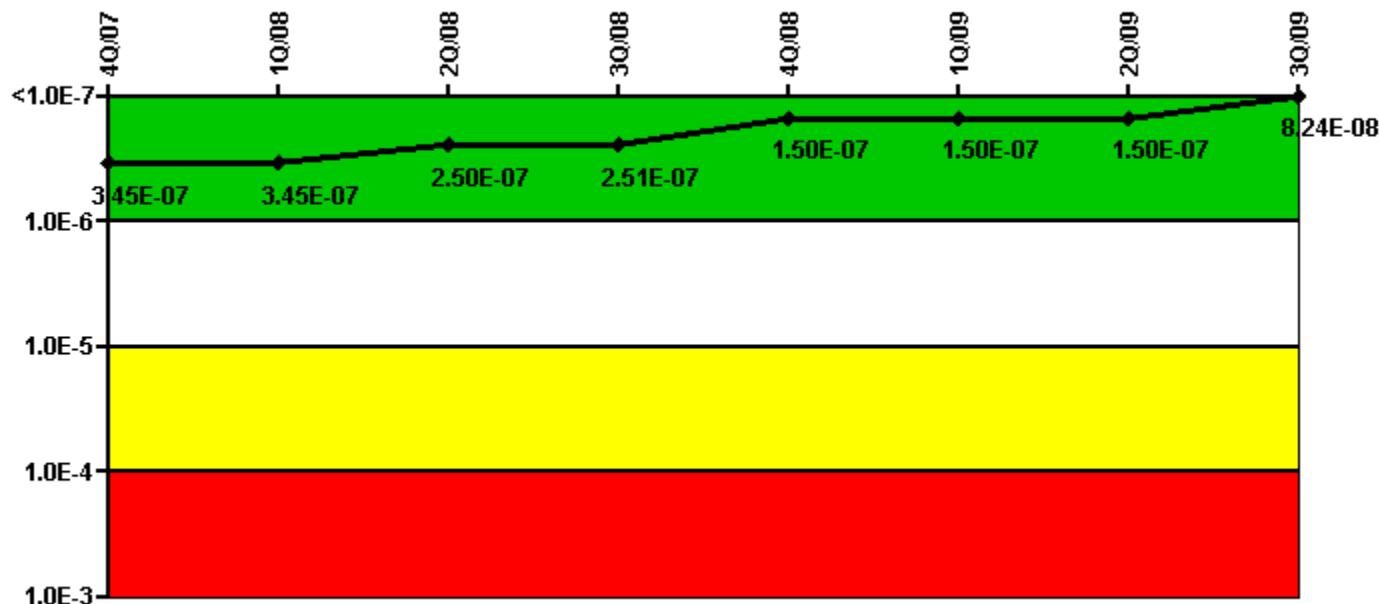
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



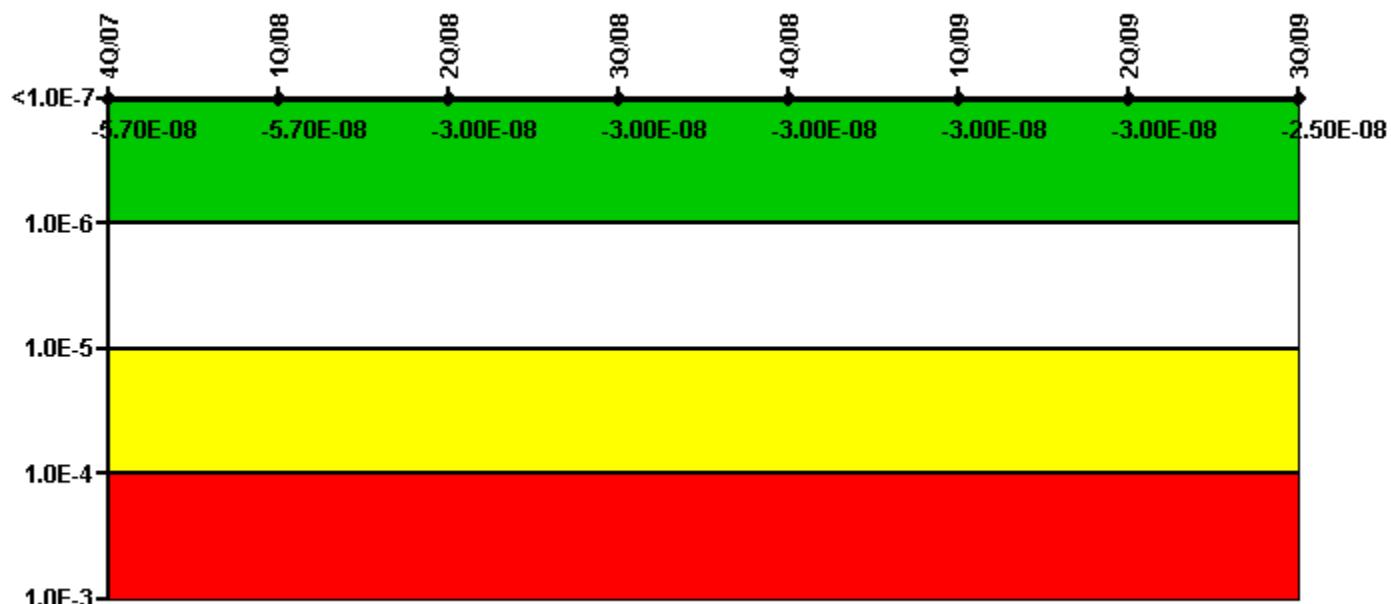
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (Δ CDF)	5.00E-09	4.90E-09	-2.80E-11	8.10E-10	4.10E-10	1.80E-10	4.20E-10	3.80E-10
URI (Δ CDF)	3.40E-07	3.40E-07	2.50E-07	2.50E-07	1.50E-07	1.50E-07	1.50E-07	8.20E-08
PLE	NO							
Indicator value	3.45E-07	3.45E-07	2.50E-07	2.51E-07	1.50E-07	1.50E-07	1.50E-07	8.24E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



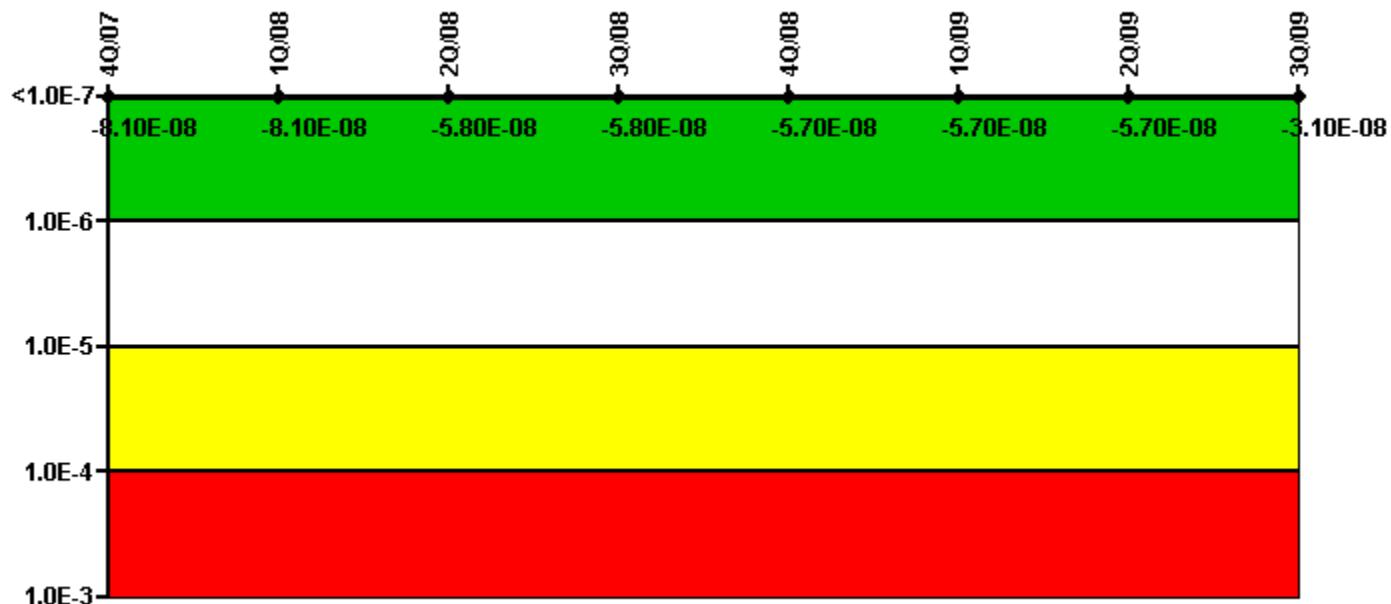
Thresholds: White > $1.00\text{E-}6$ Yellow > $1.00\text{E-}5$ Red > $1.00\text{E-}4$

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	$-2.20\text{E-}08$	$-2.20\text{E-}08$	$-4.40\text{E-}11$	$-4.10\text{E-}11$	$-4.40\text{E-}11$	$-4.40\text{E-}11$	$-4.40\text{E-}11$	$-2.70\text{E-}11$
URI (ΔCDF)	$-3.50\text{E-}08$	$-3.50\text{E-}08$	$-3.00\text{E-}08$	$-3.00\text{E-}08$	$-3.00\text{E-}08$	$-3.00\text{E-}08$	$-3.00\text{E-}08$	$-2.50\text{E-}08$
PLE	NO							
Indicator value	$-5.70\text{E-}08$	$-5.70\text{E-}08$	$-3.00\text{E-}08$	$-3.00\text{E-}08$	$-3.00\text{E-}08$	$-3.00\text{E-}08$	$-3.00\text{E-}08$	$-2.50\text{E-}08$

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



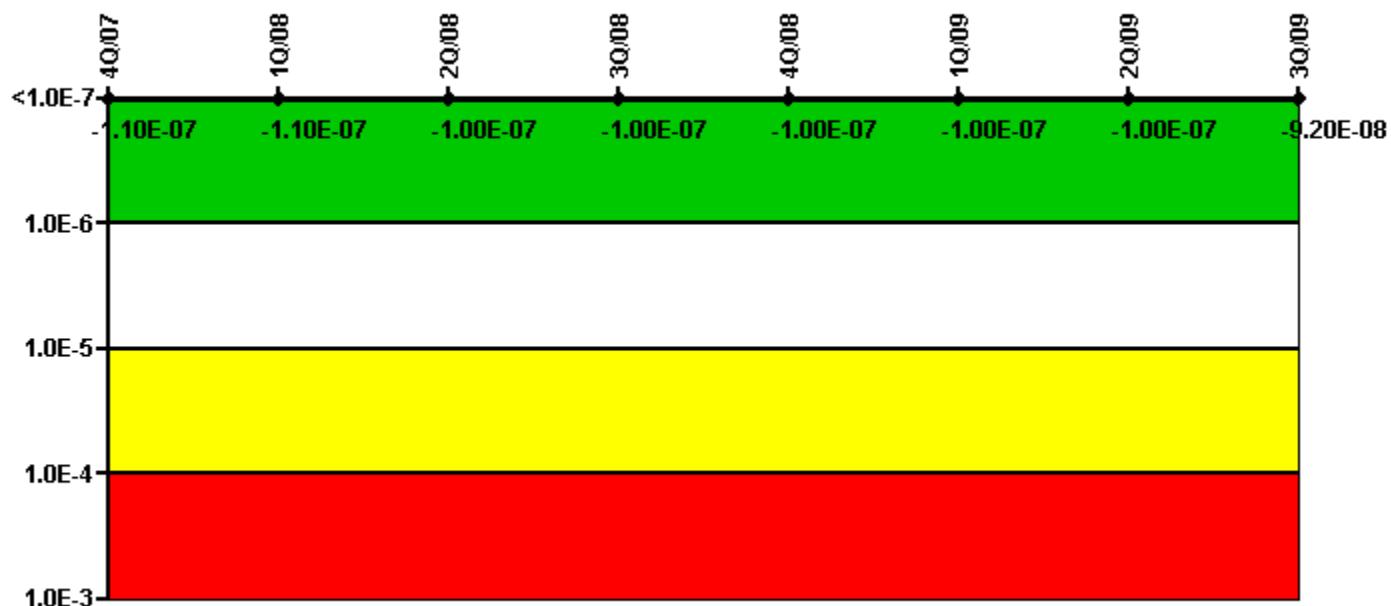
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (Δ CDF)	-2.20E-08	-2.20E-08	-4.00E-11	-4.00E-11	-4.00E-11	-4.00E-11	-4.00E-11	-2.90E-11
URI (Δ CDF)	-5.90E-08	-5.90E-08	-5.80E-08	-5.80E-08	-5.70E-08	-5.70E-08	-5.70E-08	-3.10E-08
PLE	NO							
Indicator value	-8.10E-08	-8.10E-08	-5.80E-08	-5.80E-08	-5.70E-08	-5.70E-08	-5.70E-08	-3.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



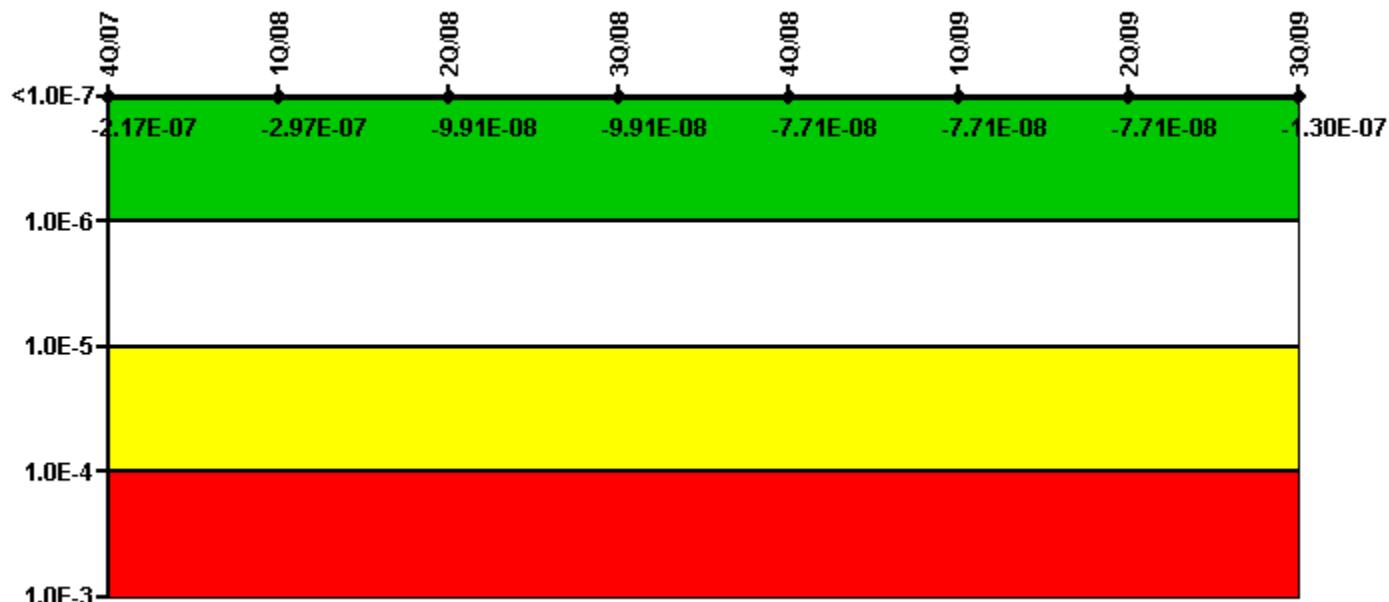
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (Δ CDF)	-2.00E-10	-2.00E-10	-1.50E-13	-2.50E-13	-2.50E-13	-2.50E-13	-2.50E-13	-3.20E-13
URI (Δ CDF)	-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-9.20E-08
PLE	NO							
Indicator value	-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-9.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



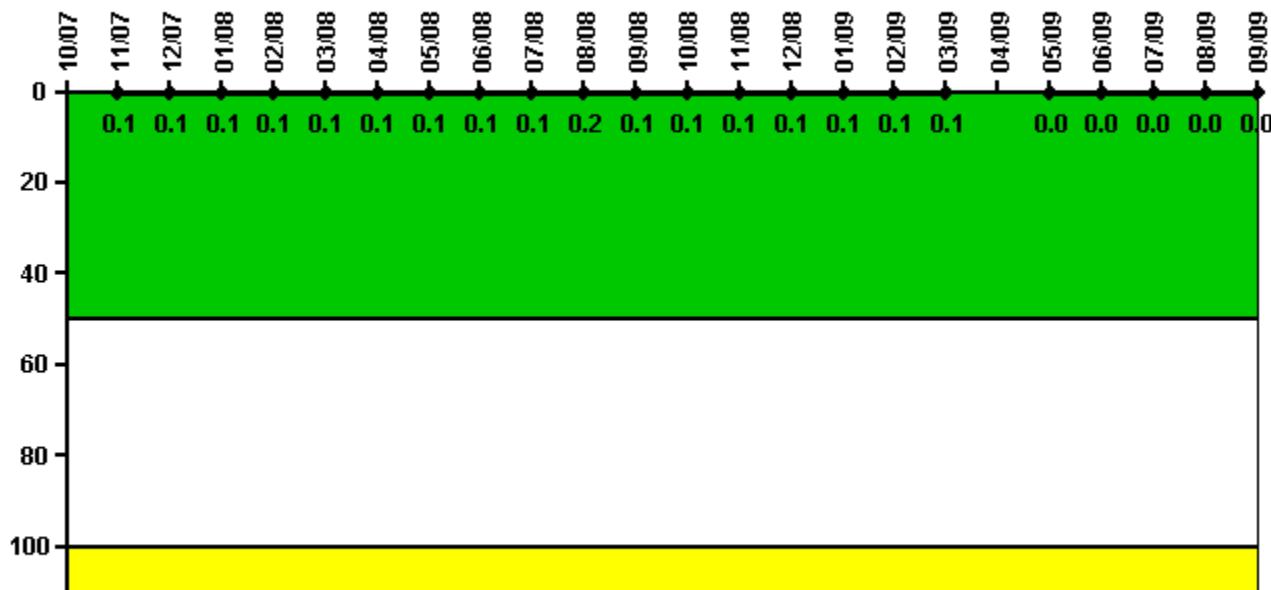
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (Δ CDF)	-1.40E-07	-2.20E-07	-7.80E-11	-9.20E-11	-5.60E-11	-5.30E-11	-5.40E-11	-3.30E-11
URI (Δ CDF)	-7.70E-08	-7.70E-08	-9.90E-08	-9.90E-08	-7.70E-08	-7.70E-08	-7.70E-08	-1.30E-07
PLE	NO							
Indicator value	-2.17E-07	-2.97E-07	-9.91E-08	-9.91E-08	-7.71E-08	-7.71E-08	-7.71E-08	-1.30E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

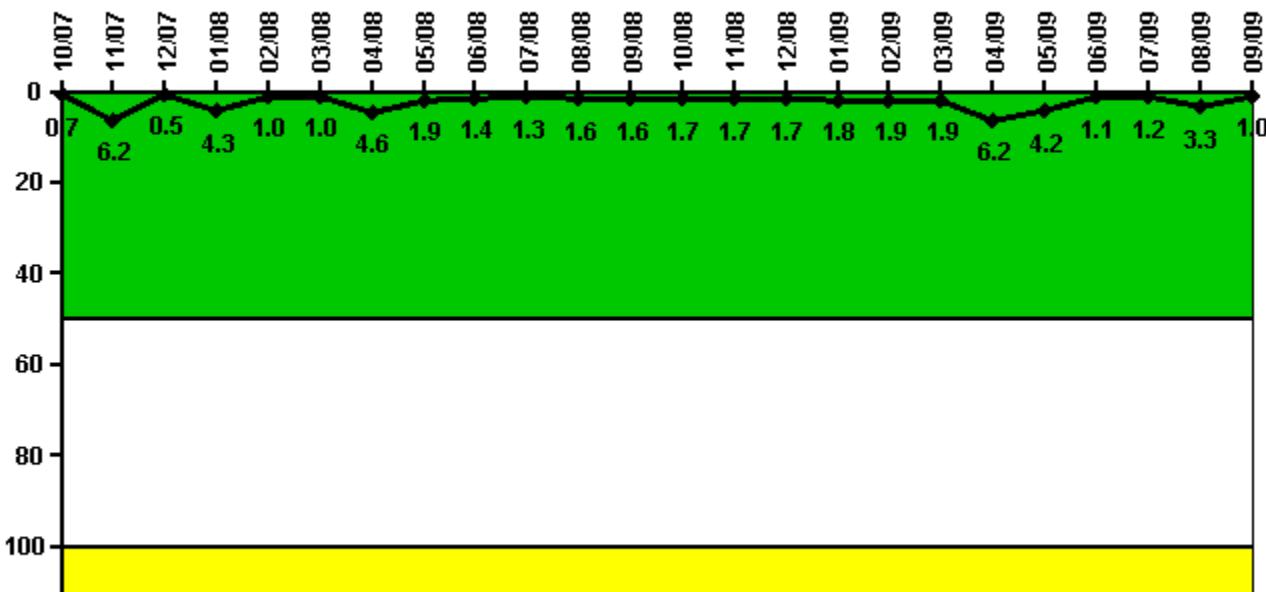
Notes

Reactor Coolant System Activity	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum activity	N/A	0.000114	0.000127	0.000120	0.000118	0.000141	0.000138	0.000138	0.000157	0.000161	0.000355	0.000168
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1

Reactor Coolant System Activity	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum activity	0.000171	0.000173	0.000179	0.000188	0.000185	0.000249	N/A	0.000135	0.000124	0.000127	0.000123	0.000130
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	N/A	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

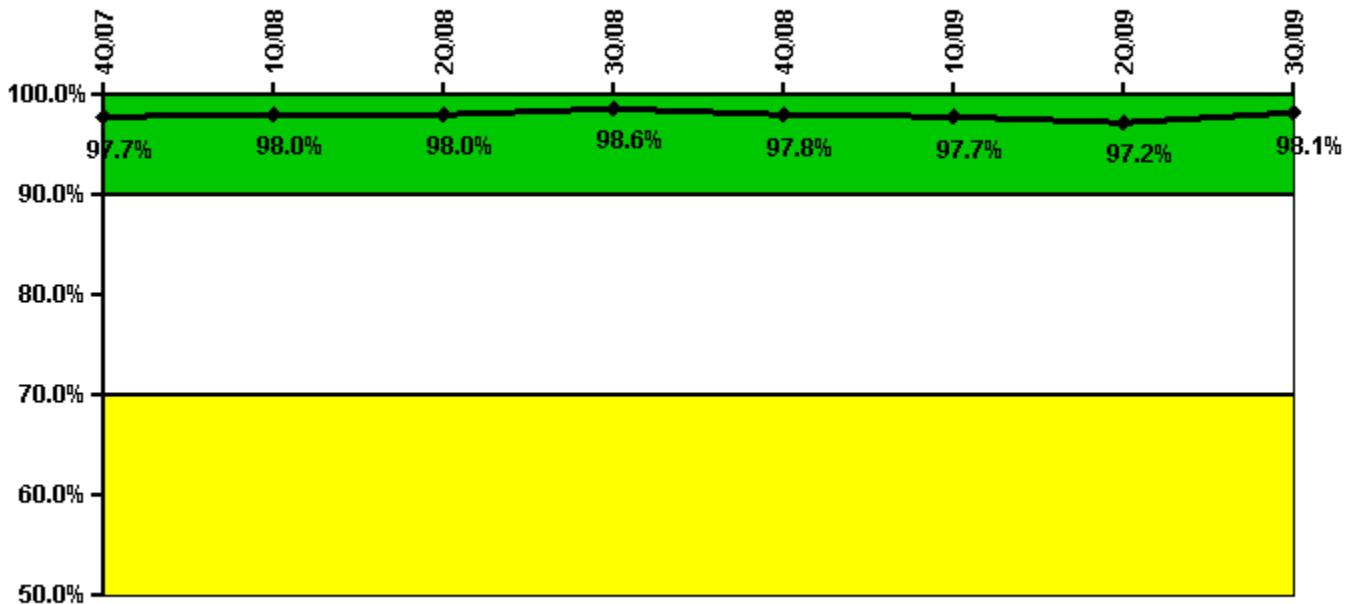
Notes

Reactor Coolant System Leakage	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum leakage	0.075	0.677	0.057	0.475	0.109	0.111	0.501	0.210	0.158	0.148	0.174	0.174
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.7	6.2	0.5	4.3	1.0	1.0	4.6	1.9	1.4	1.3	1.6	1.6
Reactor Coolant System Leakage	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum leakage	0.184	0.184	0.187	0.200	0.211	0.207	0.677	0.465	0.118	0.127	0.362	0.108
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	1.7	1.7	1.7	1.8	1.9	1.9	6.2	4.2	1.1	1.2	3.3	1.0

Licensee Comments:

9/09: Regarding August 2009 data: The highest leak rate identified for August reflects leakage to the North Chemical & Volume Control System Hold-up Tank due to the associated tank selection valve leaking by. Additional leak rate measurements confirmed this leakage path. The leakby has been corrected.

Drill/Exercise Performance



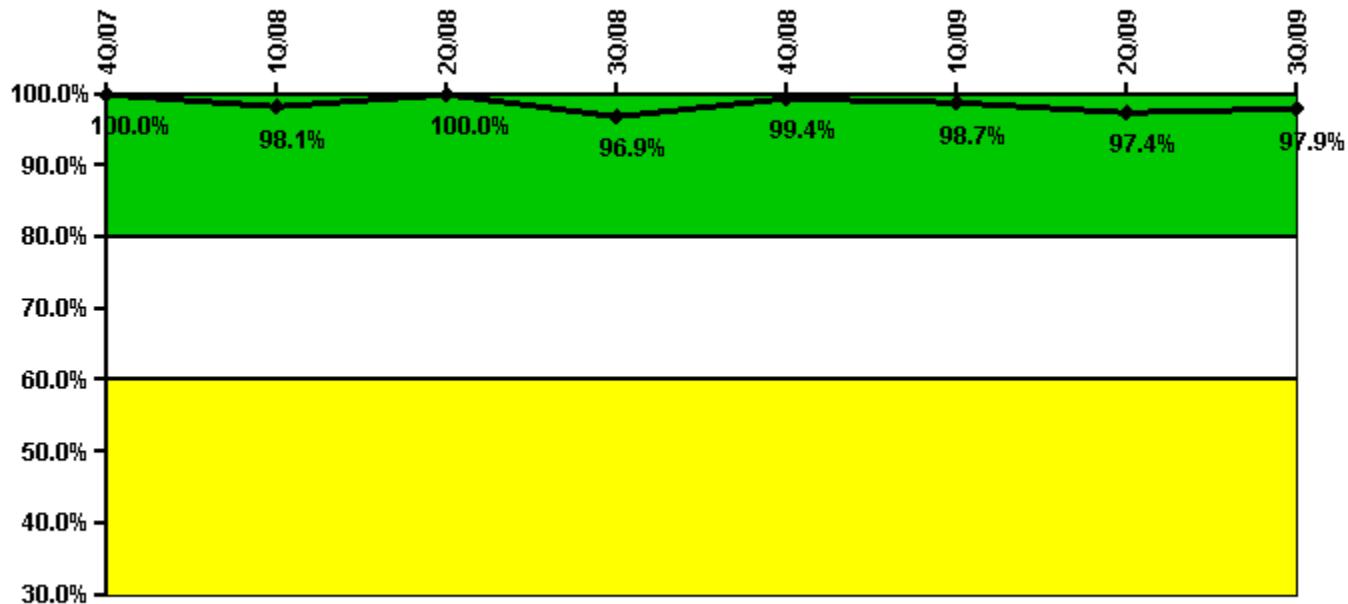
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful opportunities	51.0	87.0	27.0	132.0	96.0	47.0	5.0	82.0
Total opportunities	51.0	89.0	27.0	132.0	101.0	47.0	5.0	85.0
Indicator value	97.7%	98.0%	98.0%	98.6%	97.8%	97.7%	97.2%	98.1%

Licensee Comments: none

ERO Drill Participation



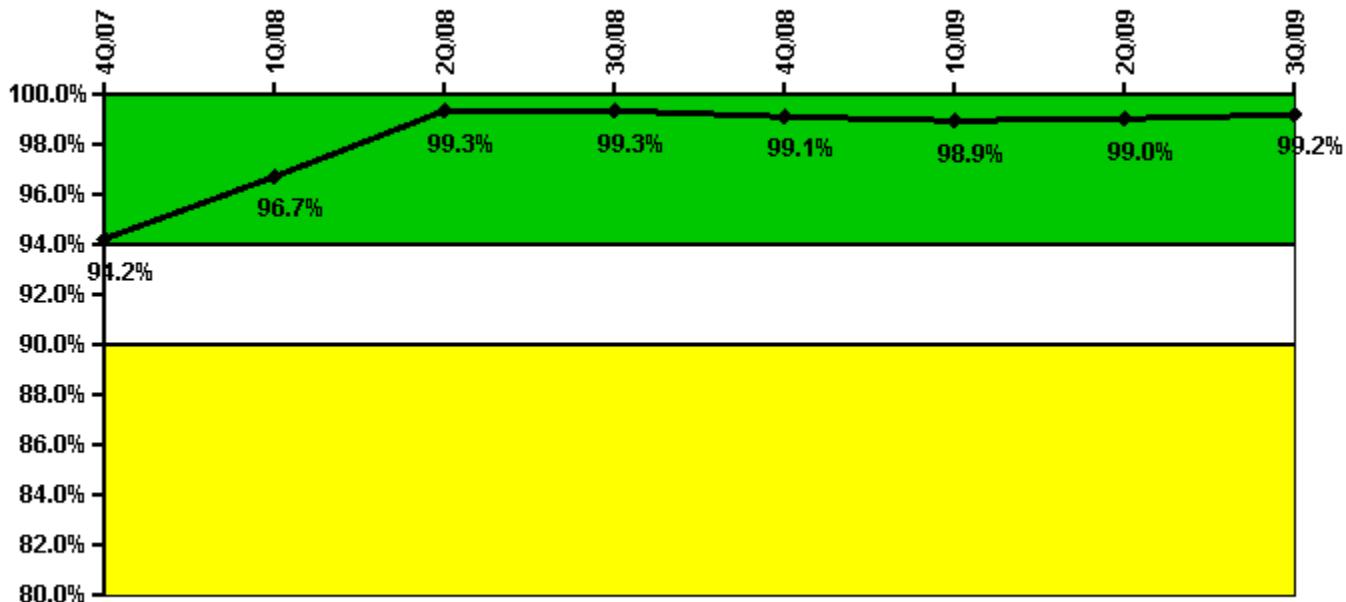
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Participating Key personnel	160.0	151.0	157.0	155.0	153.0	156.0	152.0	140.0
Total Key personnel	160.0	154.0	157.0	160.0	154.0	158.0	156.0	143.0
Indicator value	100.0%	98.1%	100.0%	96.9%	99.4%	98.7%	97.4%	97.9%

Licensee Comments: none

Alert & Notification System



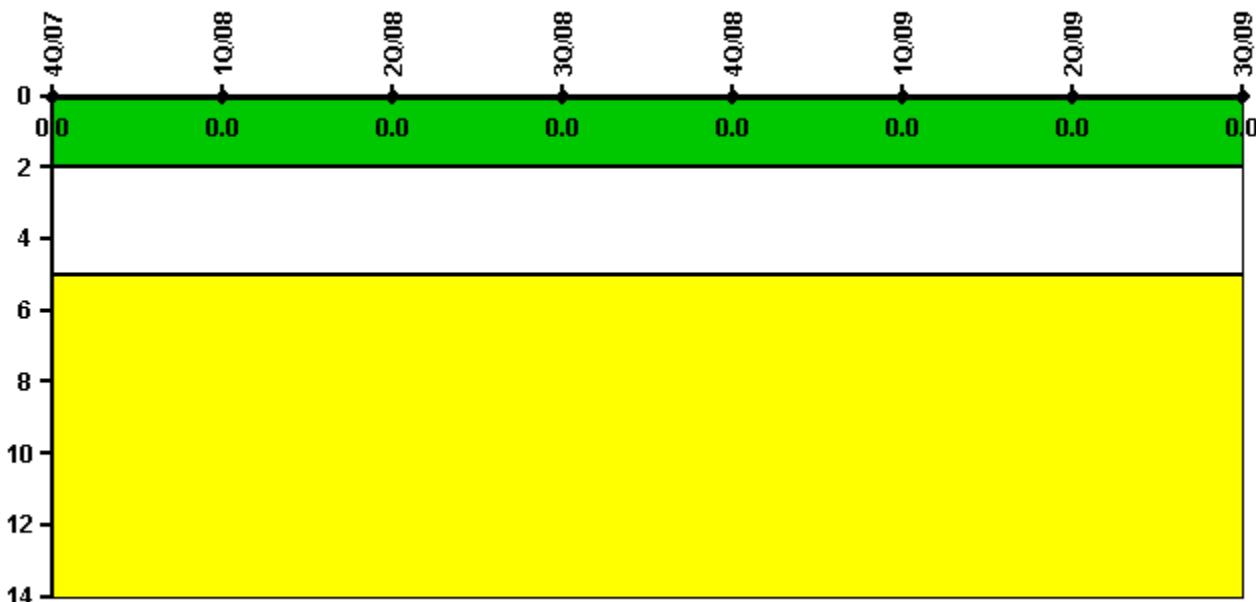
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful siren-tests	1108	1112	1112	1111	1171	1035	1117	1190
Total sirens-tests	1116	1120	1119	1120	1190	1050	1119	1190
Indicator value	94.2%	96.7%	99.3%	99.3%	99.1%	98.9%	99.0%	99.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness



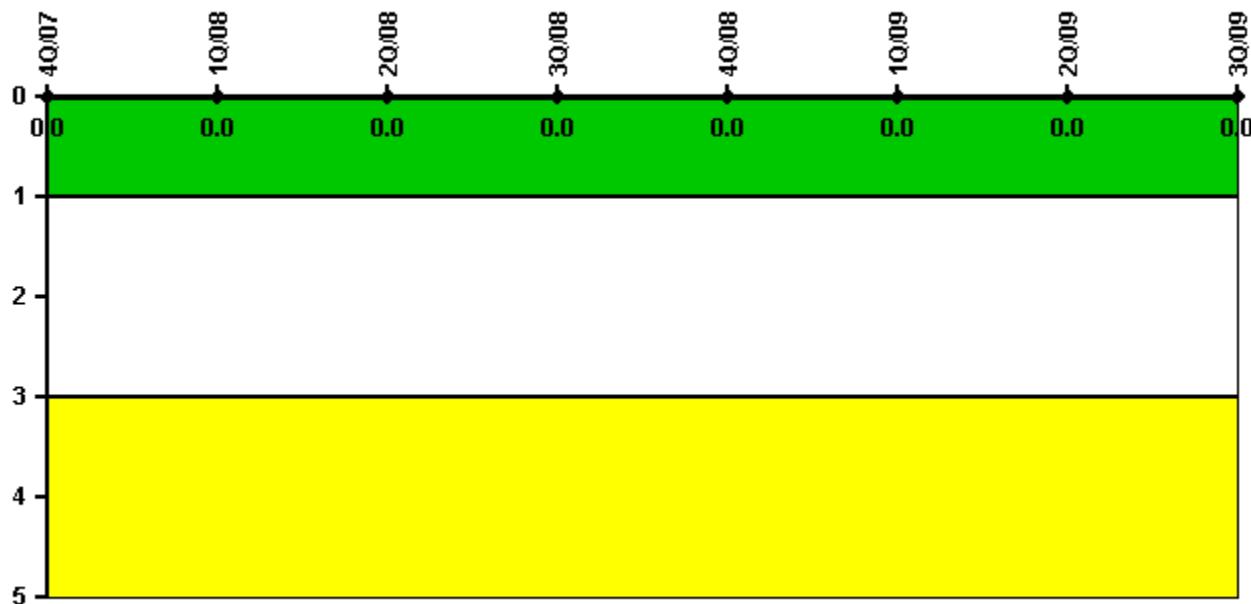
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

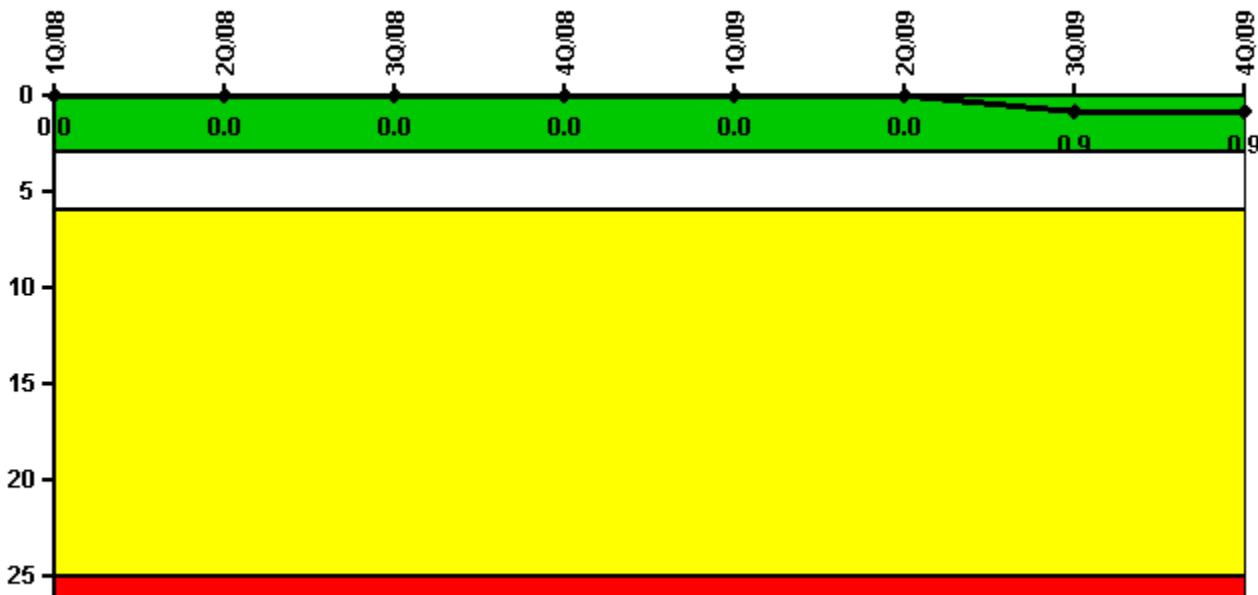
[Security](#) information not publicly available.

D.C. Cook 2

4Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



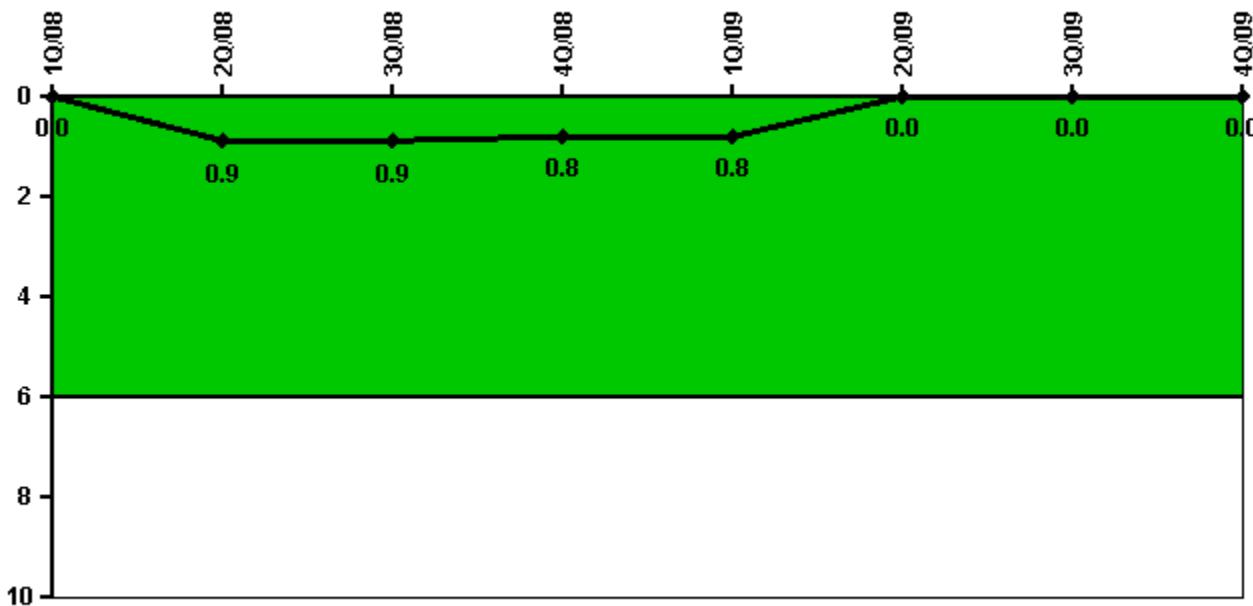
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2183.0	2184.0	2157.2	2209.0	1991.0	1489.3	1908.0	2209.0
Indicator value	0	0	0	0	0	0	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



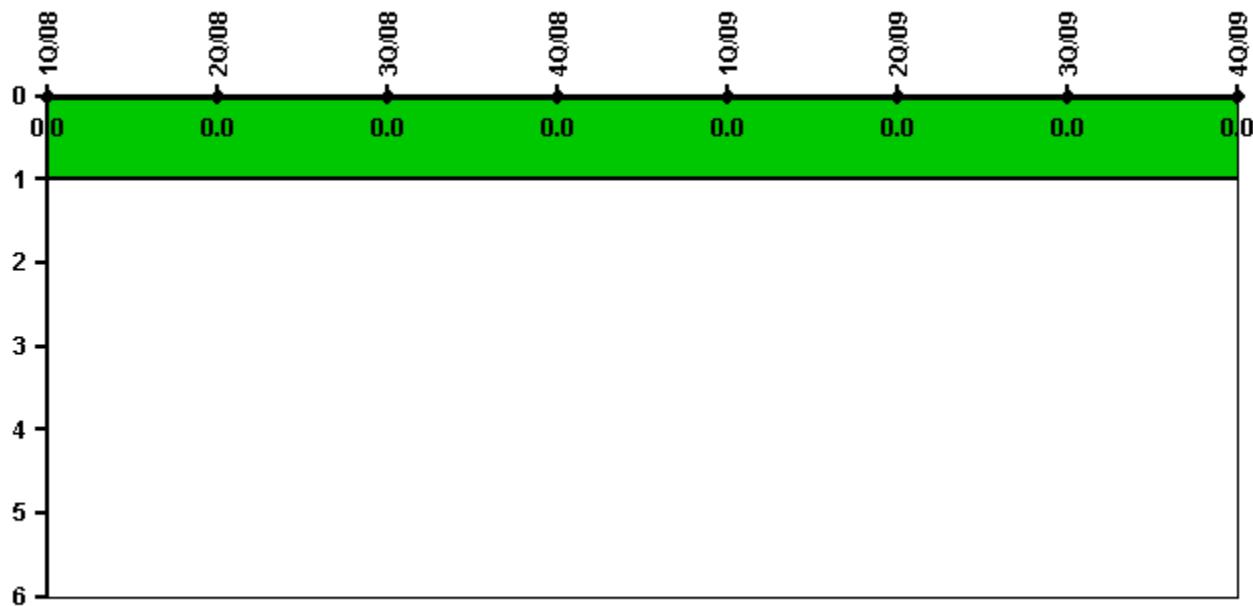
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2157.2	2209.0	1991.0	1489.3	1908.0	2209.0
Indicator value	0	0.9	0.9	0.8	0.8	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



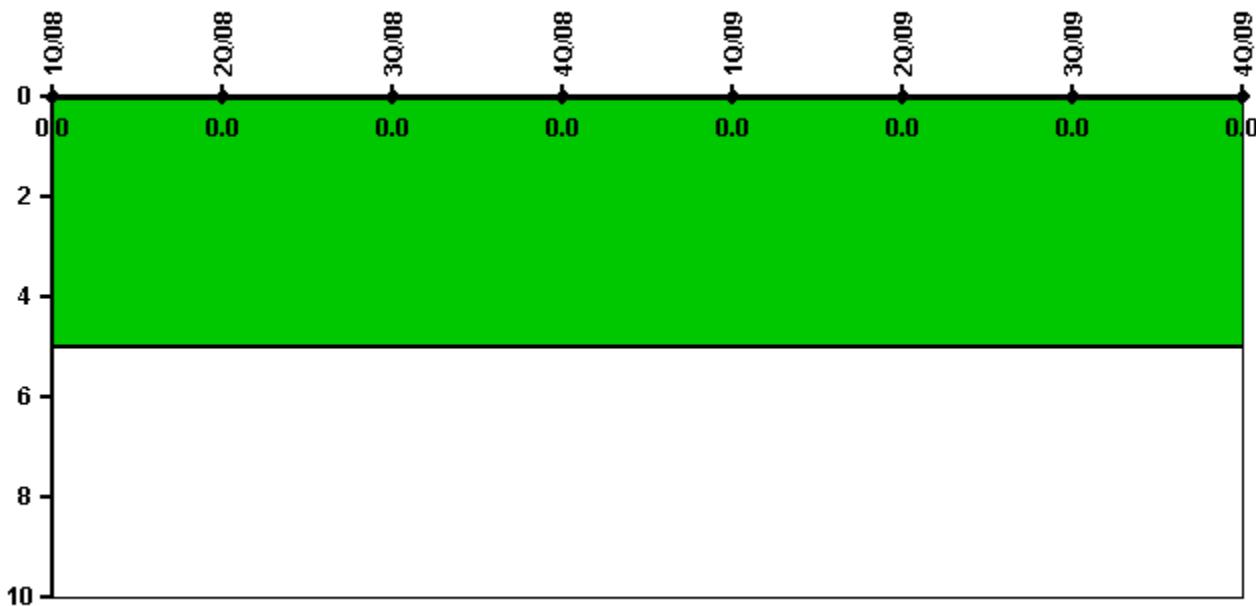
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



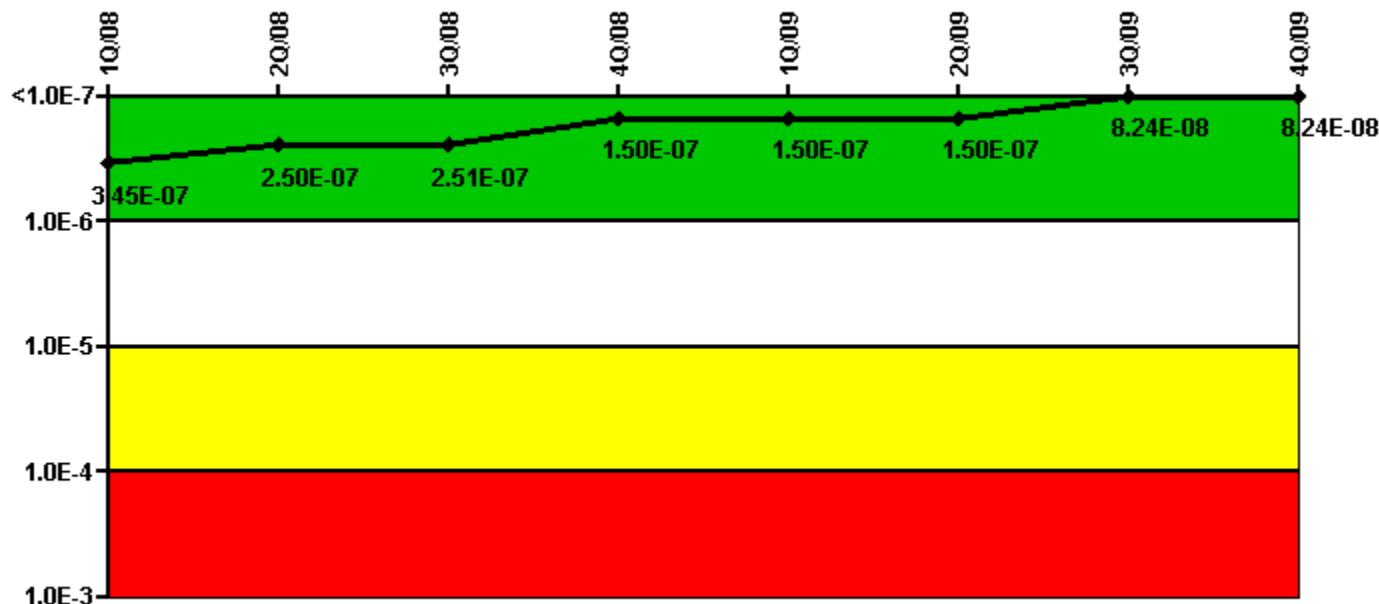
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



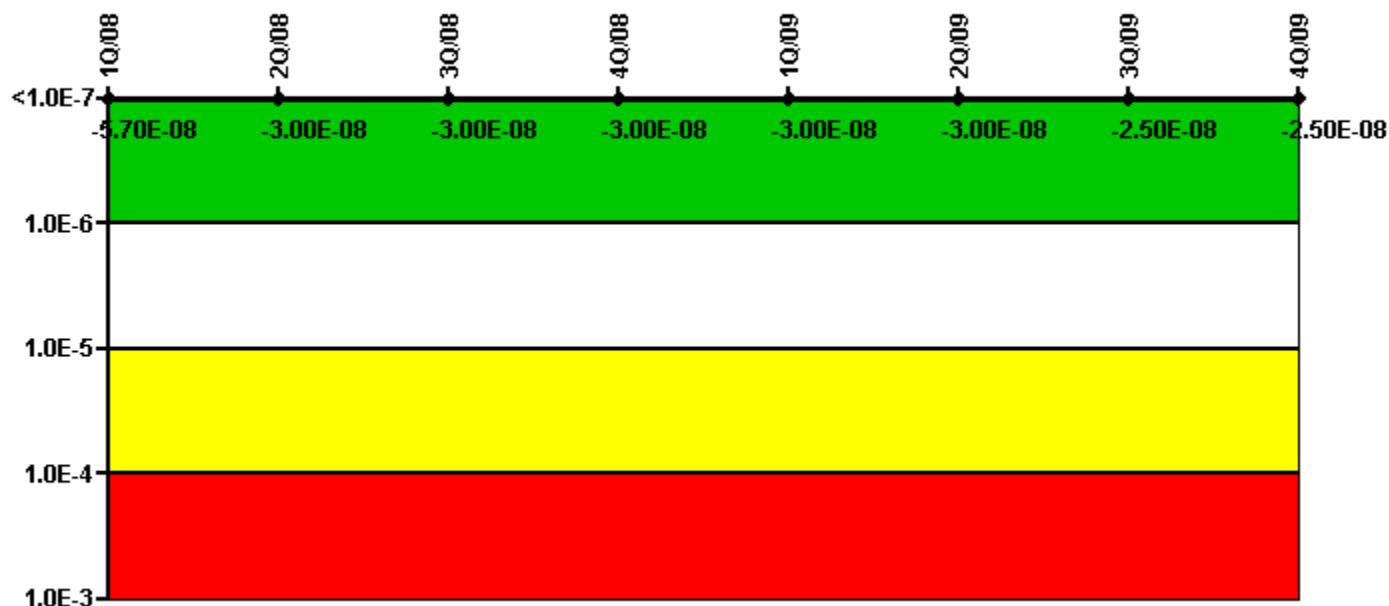
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	4.90E-09	-2.80E-11	8.10E-10	4.10E-10	1.80E-10	4.20E-10	3.80E-10	3.70E-10
URI (Δ CDF)	3.40E-07	2.50E-07	2.50E-07	1.50E-07	1.50E-07	1.50E-07	8.20E-08	8.20E-08
PLE	NO							
Indicator value	3.45E-07	2.50E-07	2.51E-07	1.50E-07	1.50E-07	1.50E-07	8.24E-08	8.24E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



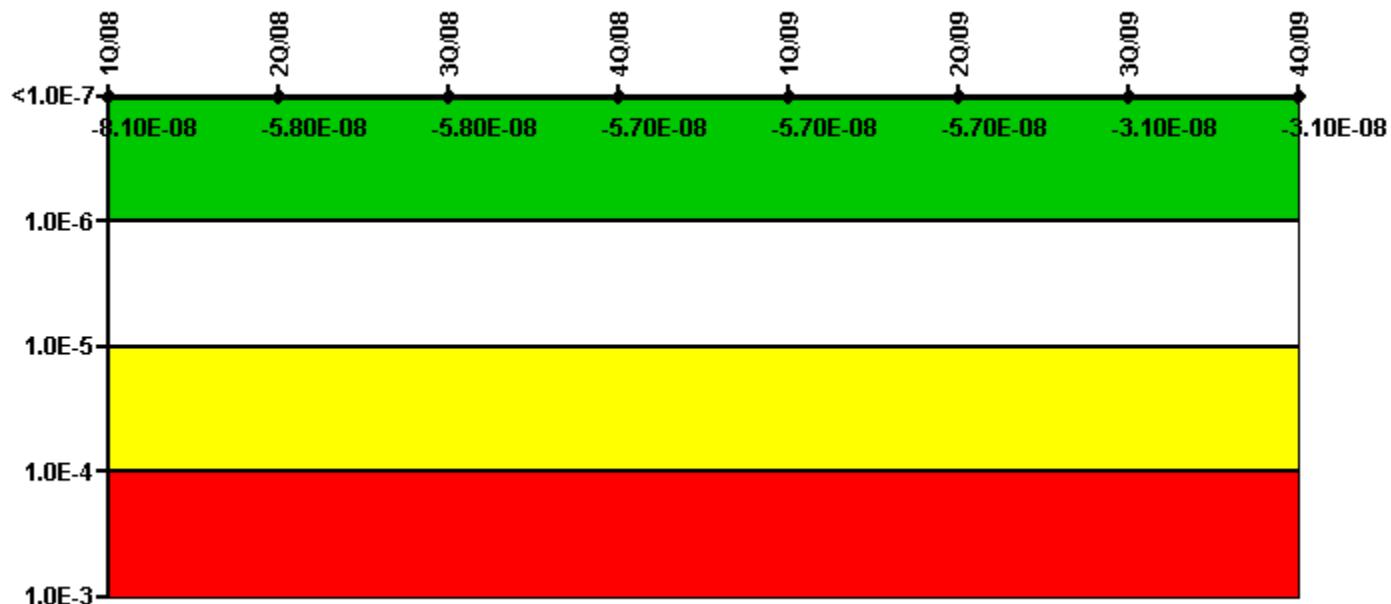
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	-2.20E-08	-4.40E-11	-4.10E-11	-4.40E-11	-4.40E-11	-4.40E-11	-2.70E-11	-2.70E-11
URI (Δ CDF)	-3.50E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-2.50E-08	-2.50E-08
PLE	NO							
Indicator value	-5.70E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-2.50E-08	-2.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



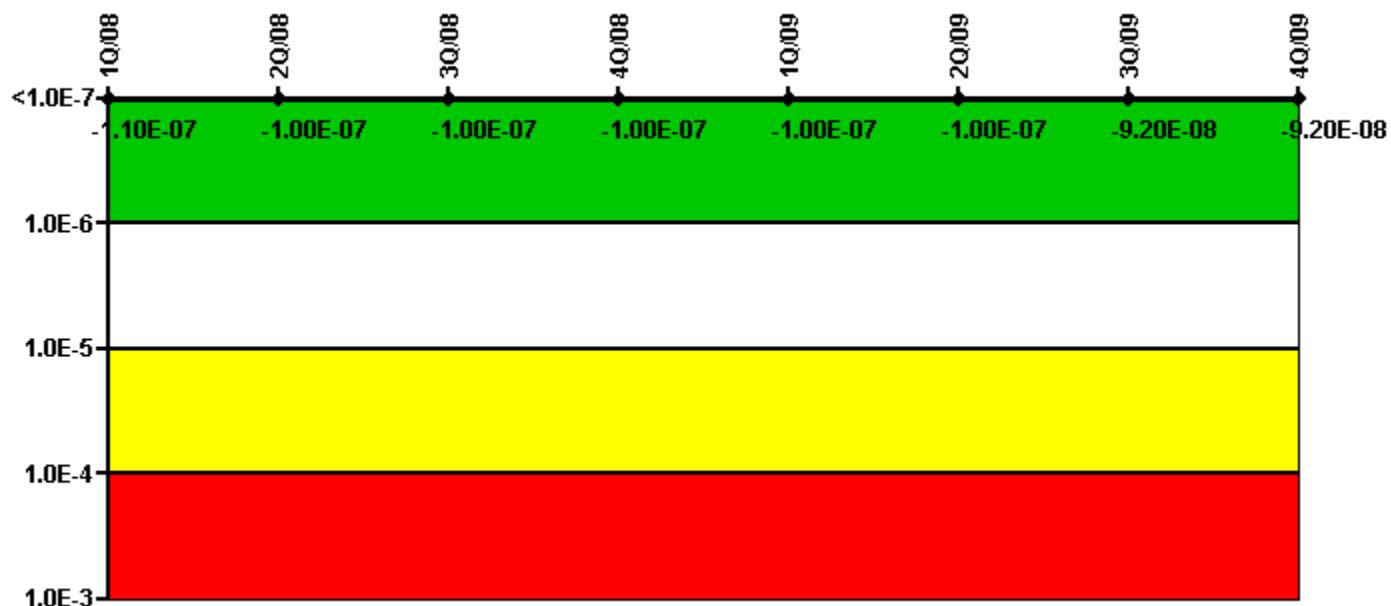
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	-2.20E-08	-4.00E-11	-4.00E-11	-4.00E-11	-4.00E-11	-4.00E-11	-2.90E-11	-2.90E-11
URI (Δ CDF)	-5.90E-08	-5.80E-08	-5.80E-08	-5.70E-08	-5.70E-08	-5.70E-08	-3.10E-08	-3.10E-08
PLE	NO							
Indicator value	-8.10E-08	-5.80E-08	-5.80E-08	-5.70E-08	-5.70E-08	-5.70E-08	-3.10E-08	-3.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



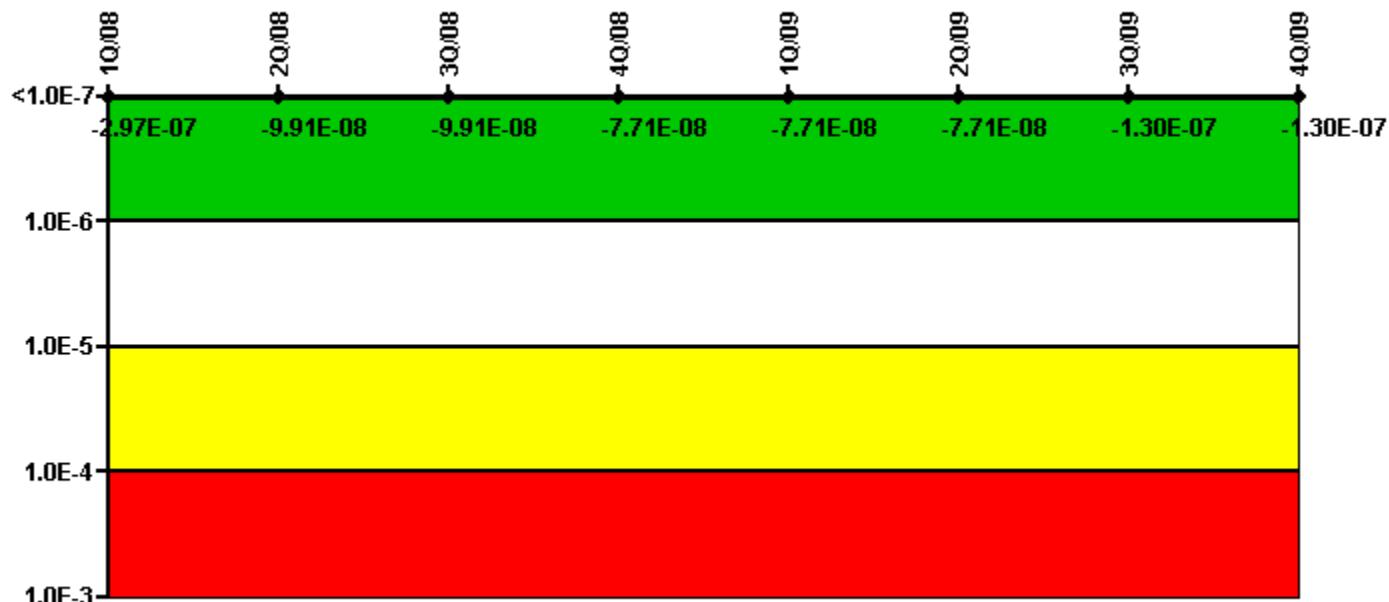
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	-2.00E-10	-1.50E-13	-2.50E-13	-2.50E-13	-2.50E-13	-2.50E-13	-3.20E-13	-3.20E-13
URI (Δ CDF)	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-9.20E-08	-9.20E-08
PLE	NO							
Indicator value	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-9.20E-08	-9.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



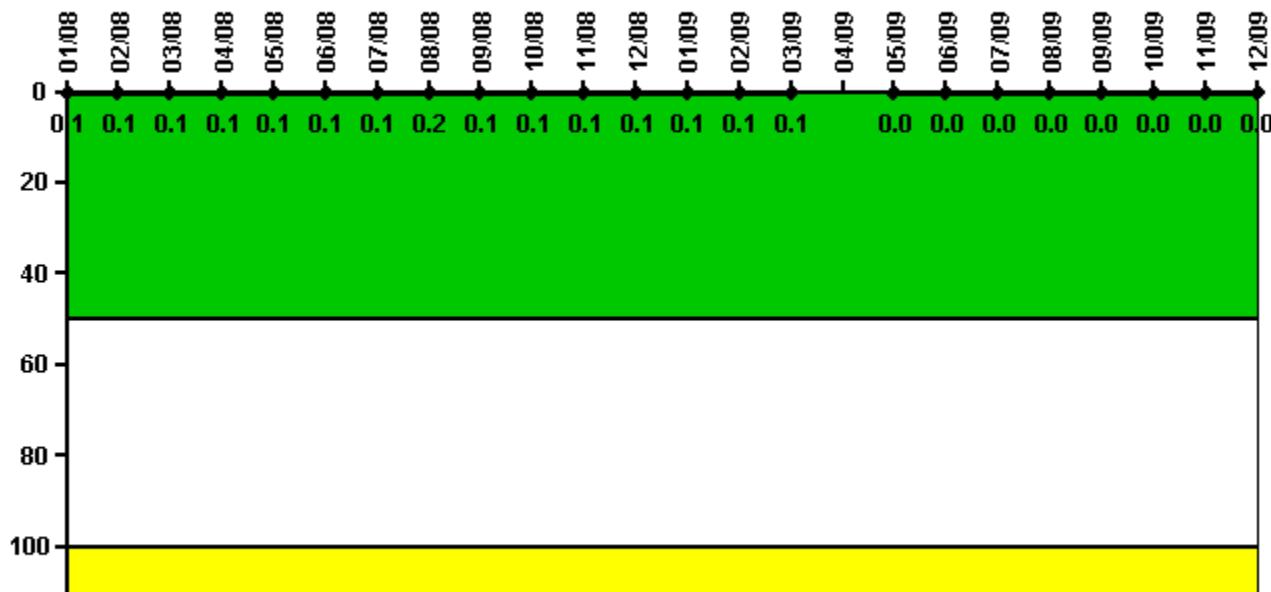
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	-2.20E-07	-7.80E-11	-9.20E-11	-5.60E-11	-5.30E-11	-5.40E-11	-3.30E-11	-3.50E-11
URI (Δ CDF)	-7.70E-08	-9.90E-08	-9.90E-08	-7.70E-08	-7.70E-08	-7.70E-08	-1.30E-07	-1.30E-07
PLE	NO							
Indicator value	-2.97E-07	-9.91E-08	-9.91E-08	-7.71E-08	-7.71E-08	-7.71E-08	-1.30E-07	-1.30E-07

Licensee Comments: none

Reactor Coolant System Activity



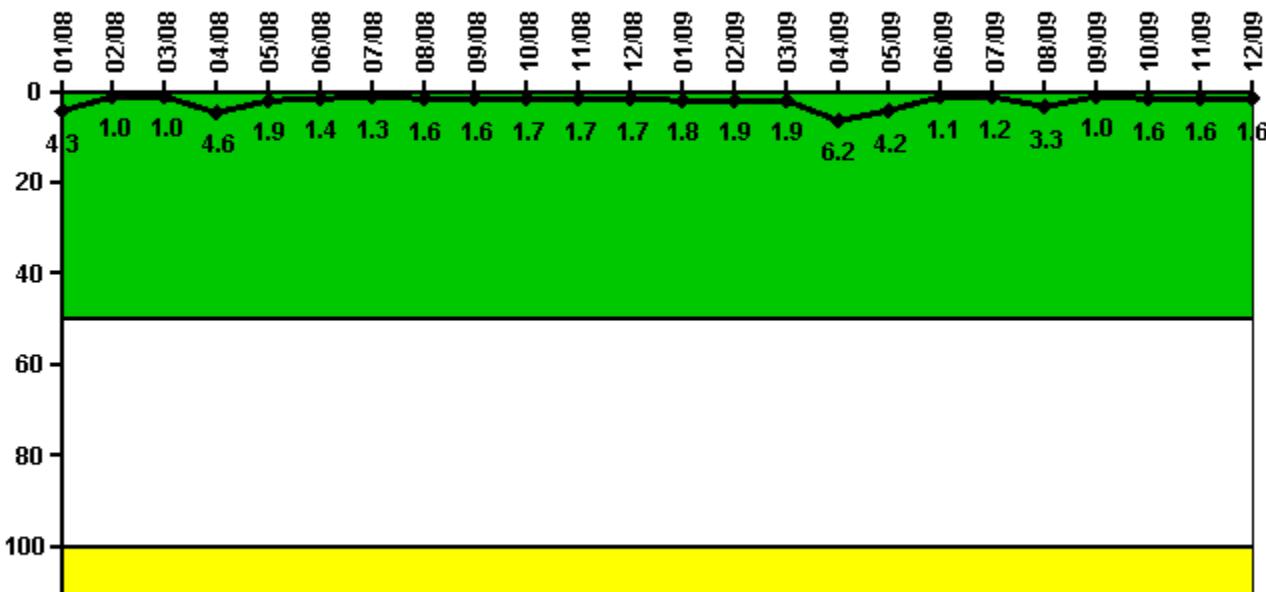
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum activity	0.000120	0.000118	0.000141	0.000138	0.000138	0.000157	0.000161	0.000355	0.000168	0.000171	0.000173	0.000179
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum activity	0.000188	0.000185	0.000249	N/A	0.000135	0.000124	0.000127	0.000123	0.000130	0.000139	0.000143	0.000148
Technical specification limit	0.2	0.2	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	N/A	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



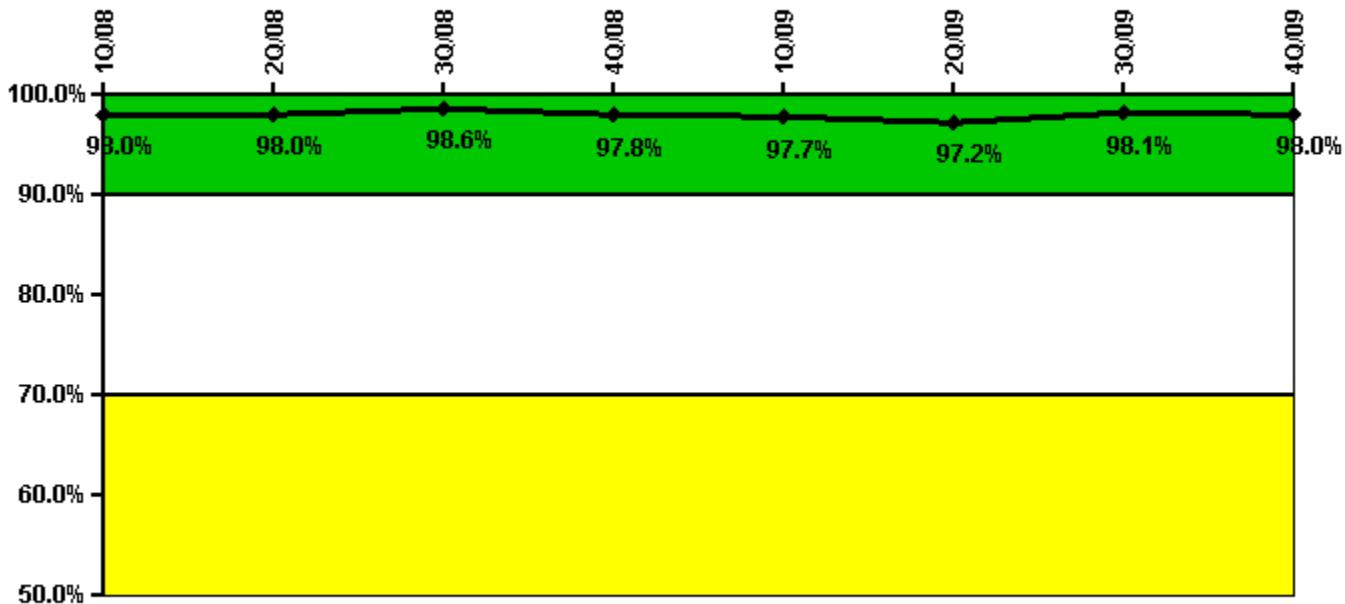
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum leakage	0.475	0.109	0.111	0.501	0.210	0.158	0.148	0.174	0.174	0.184	0.184	0.187
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	4.3	1.0	1.0	4.6	1.9	1.4	1.3	1.6	1.6	1.7	1.7	1.7
Reactor Coolant System Leakage	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum leakage	0.200	0.211	0.207	0.677	0.465	0.118	0.127	0.362	0.108	0.171	0.176	0.181
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	1.8	1.9	1.9	6.2	4.2	1.1	1.2	3.3	1.0	1.6	1.6	1.6

Licensee Comments: none

Drill/Exercise Performance



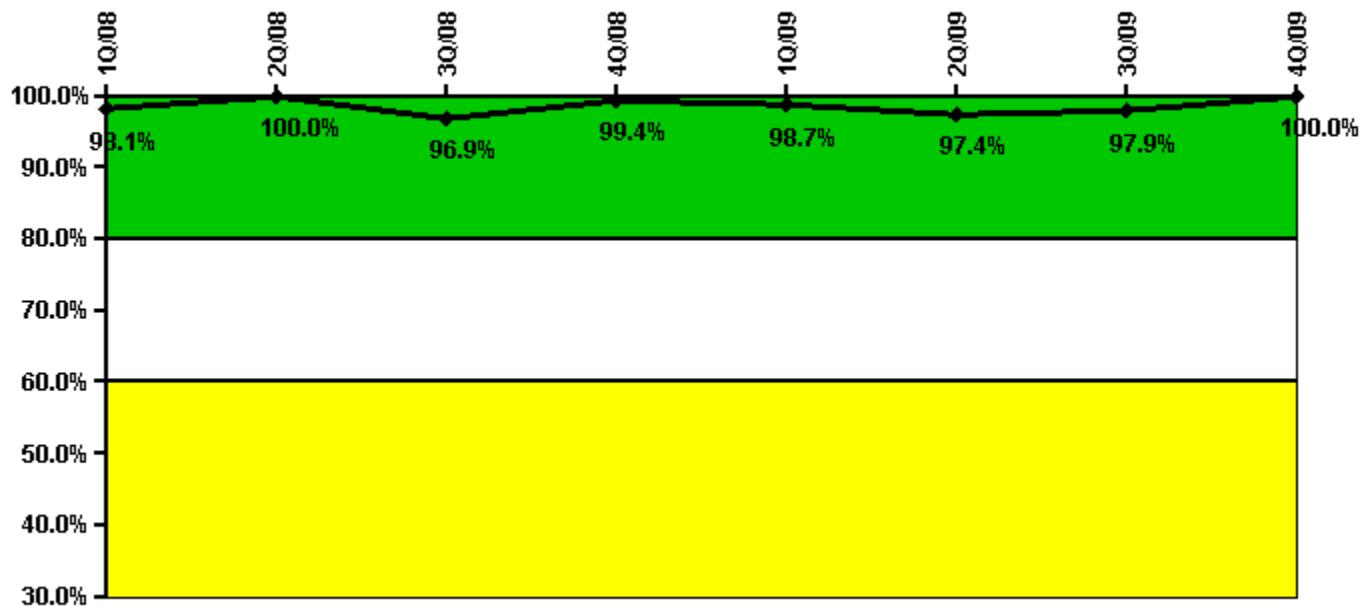
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful opportunities	87.0	27.0	132.0	96.0	47.0	5.0	82.0	16.0
Total opportunities	89.0	27.0	132.0	101.0	47.0	5.0	85.0	16.0
Indicator value	98.0%	98.0%	98.6%	97.8%	97.7%	97.2%	98.1%	98.0%

Licensee Comments: none

ERO Drill Participation



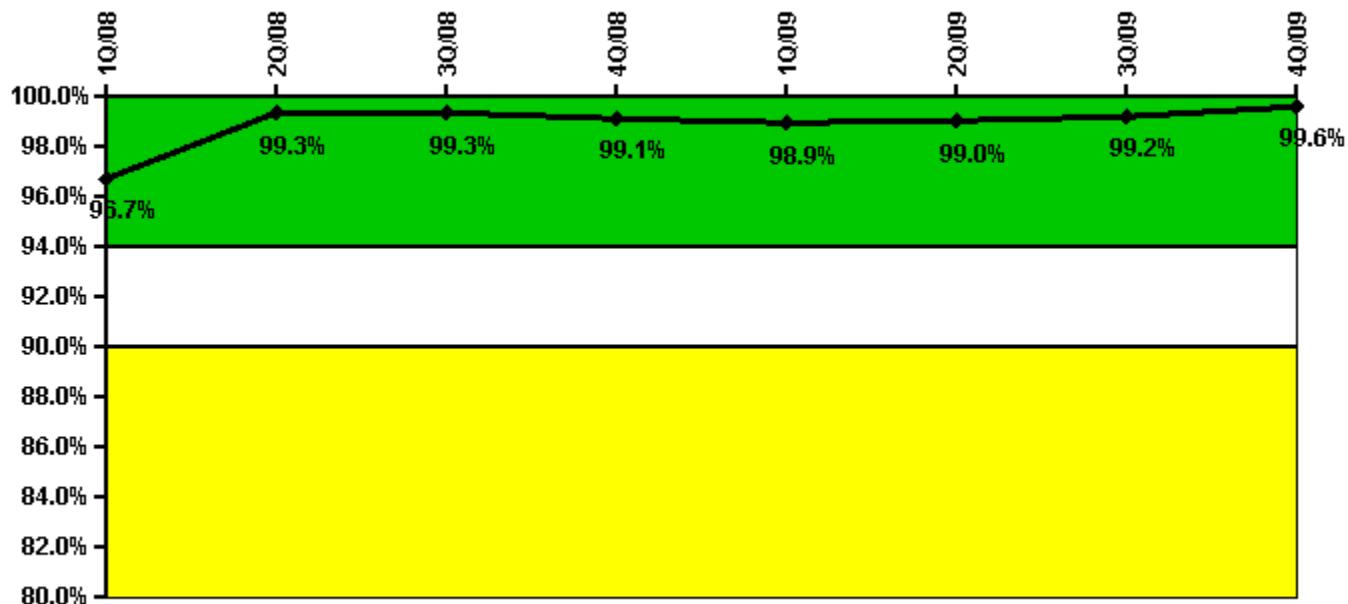
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Participating Key personnel	151.0	157.0	155.0	153.0	156.0	152.0	140.0	144.0
Total Key personnel	154.0	157.0	160.0	154.0	158.0	156.0	143.0	144.0
Indicator value	98.1%	100.0%	96.9%	99.4%	98.7%	97.4%	97.9%	100.0%

Licensee Comments: none

Alert & Notification System



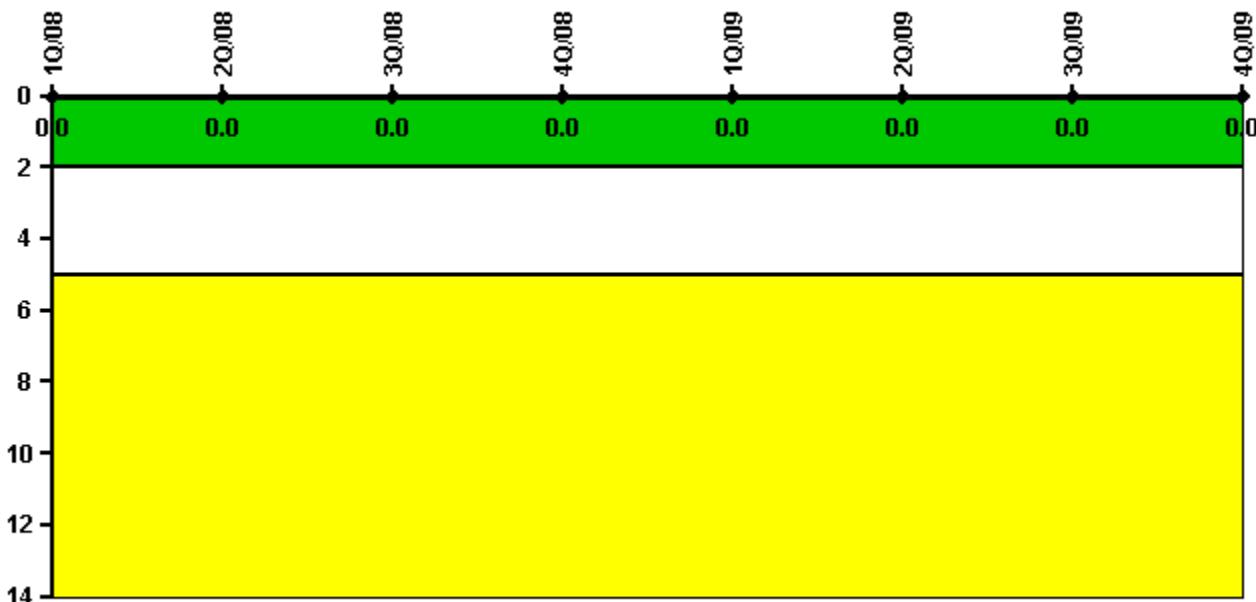
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful siren-tests	1112	1112	1111	1171	1035	1117	1190	1115
Total sirens-tests	1120	1119	1120	1190	1050	1119	1190	1116
Indicator value	96.7%	99.3%	99.3%	99.1%	98.9%	99.0%	99.2%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



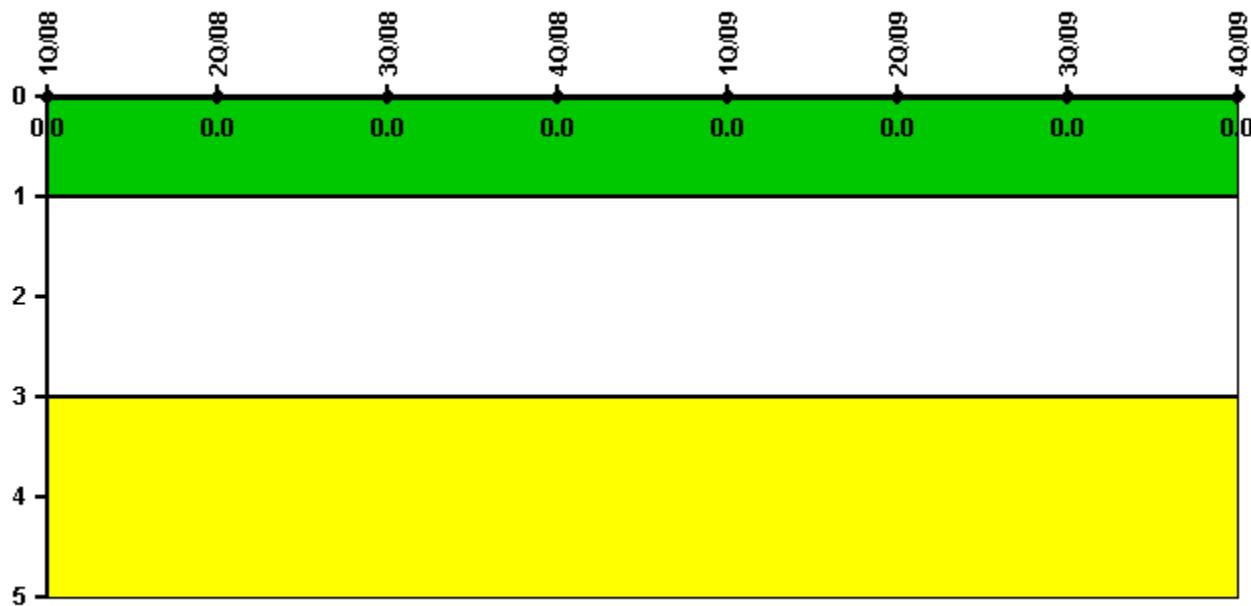
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Security](#) information not publicly available.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

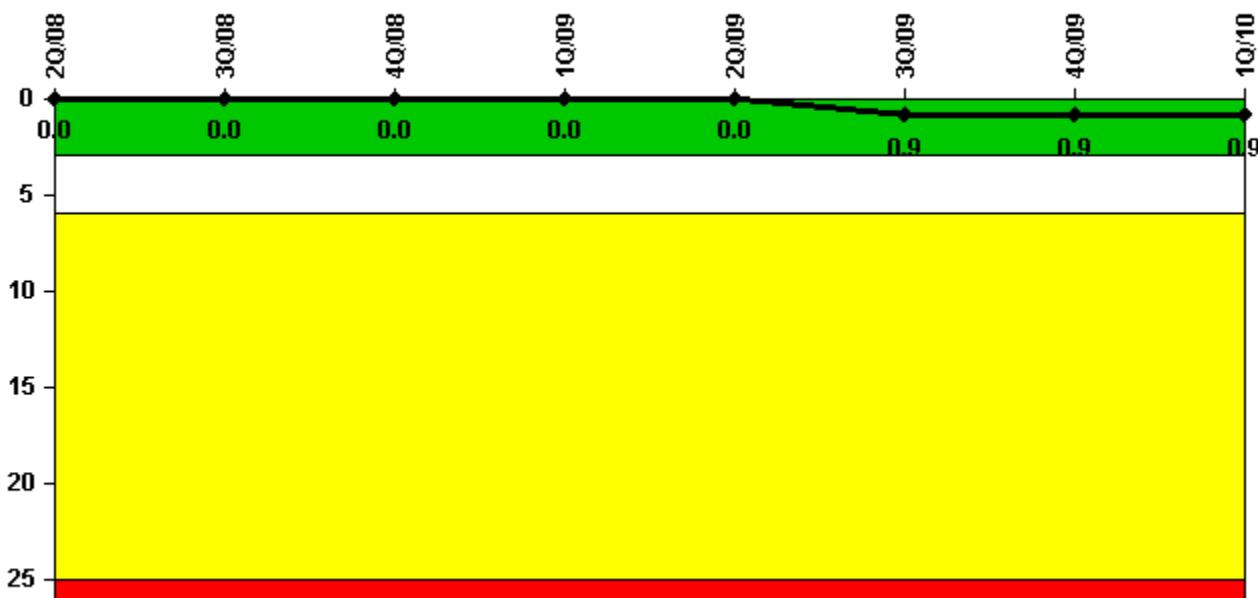
Last Modified: January 22, 2010

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1Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



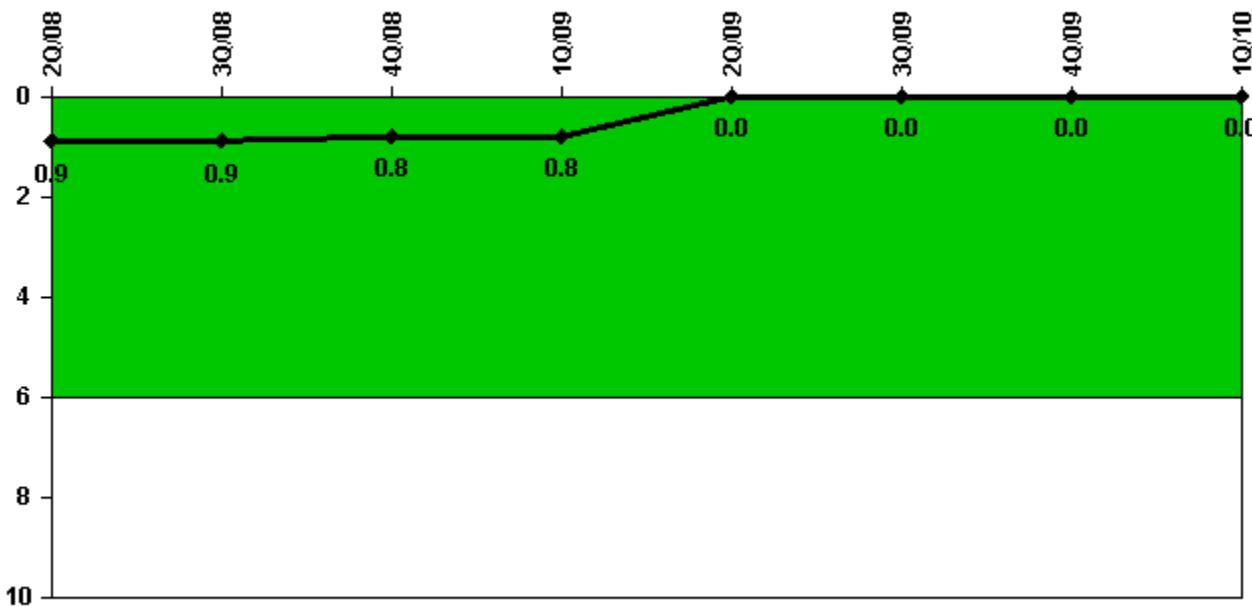
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2184.0	2157.2	2209.0	1991.0	1489.3	1908.0	2209.0	2159.0
Indicator value	0	0	0	0	0	0.9	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



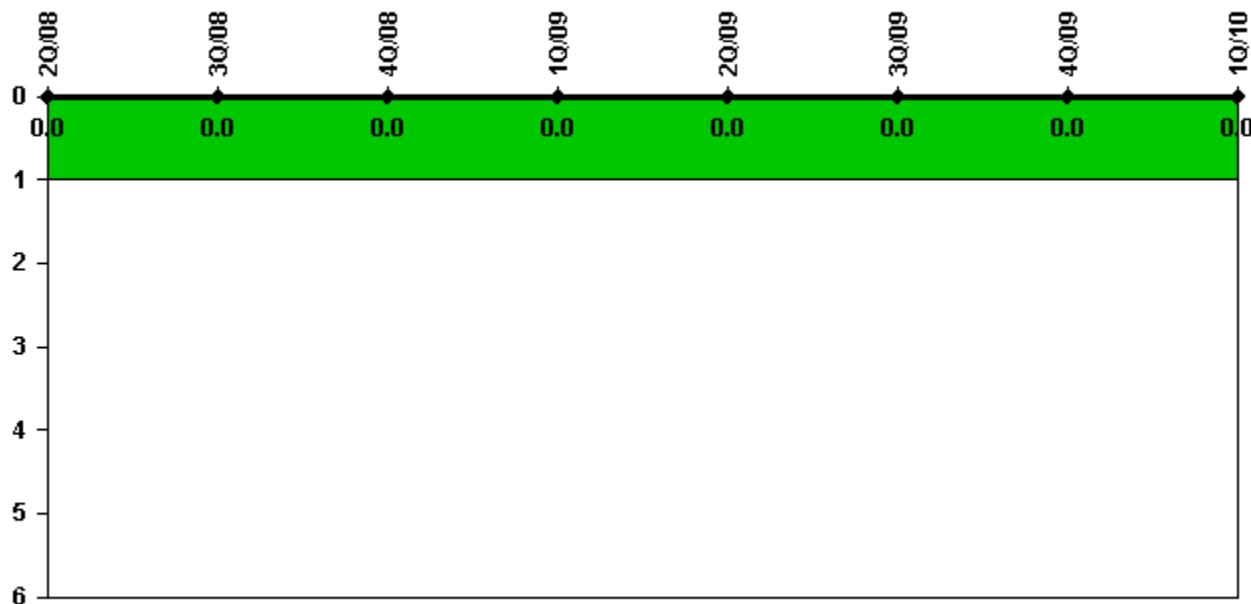
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2184.0	2157.2	2209.0	1991.0	1489.3	1908.0	2209.0	2159.0
Indicator value	0.9	0.9	0.8	0.8	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



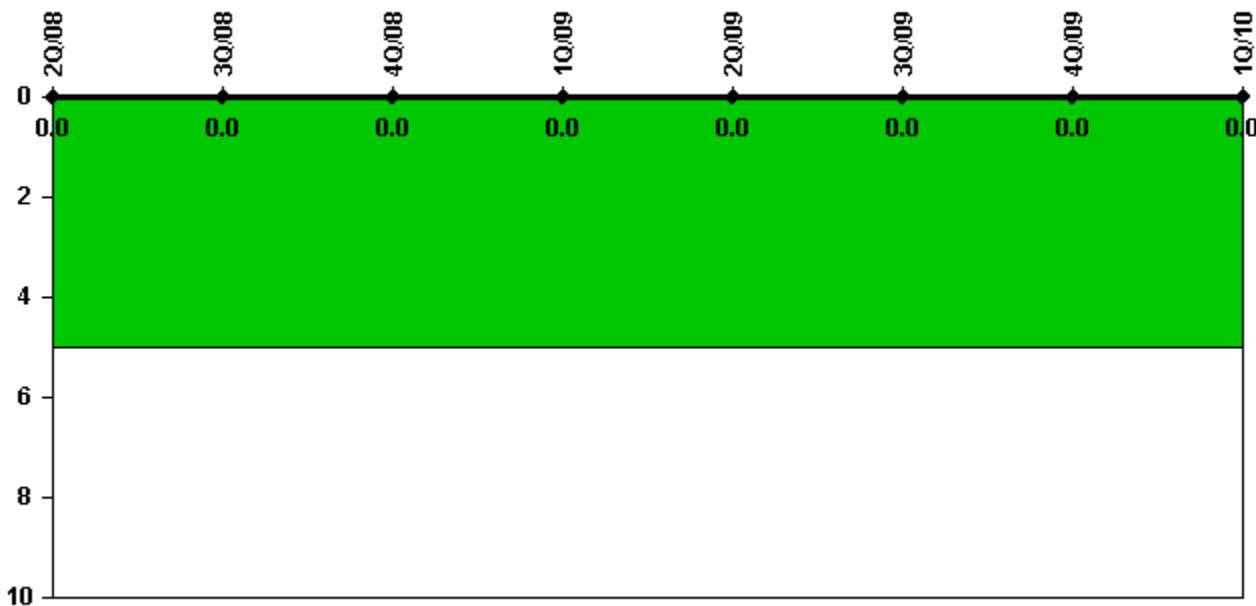
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



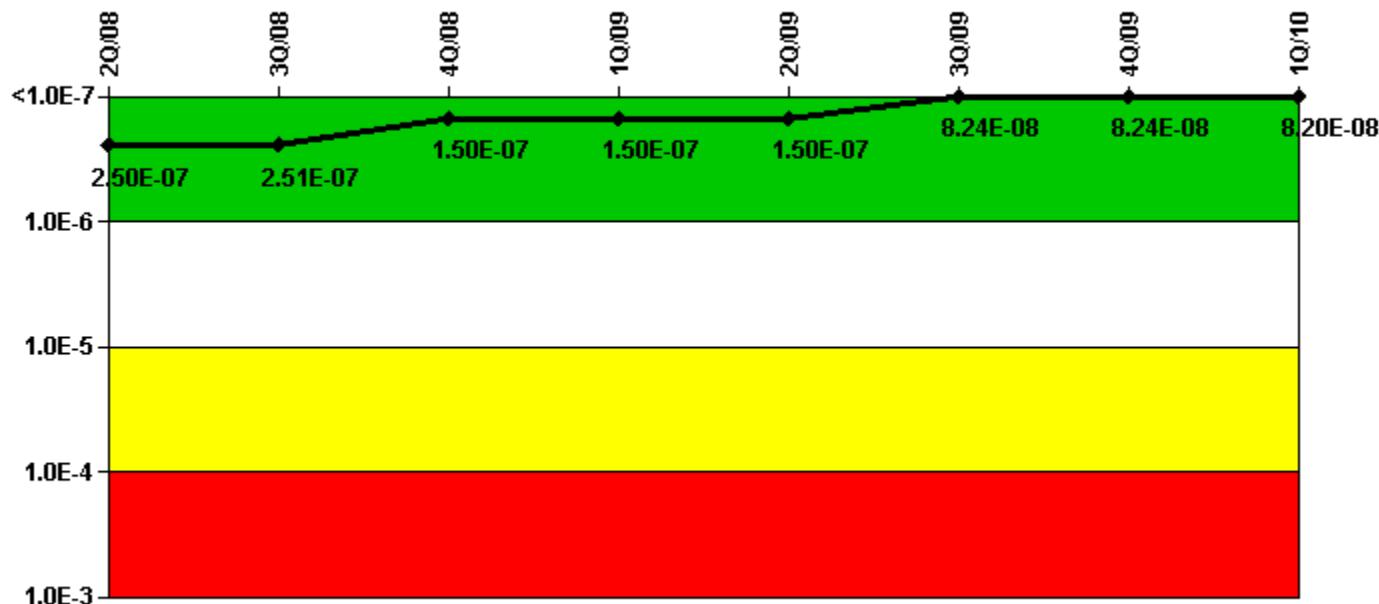
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



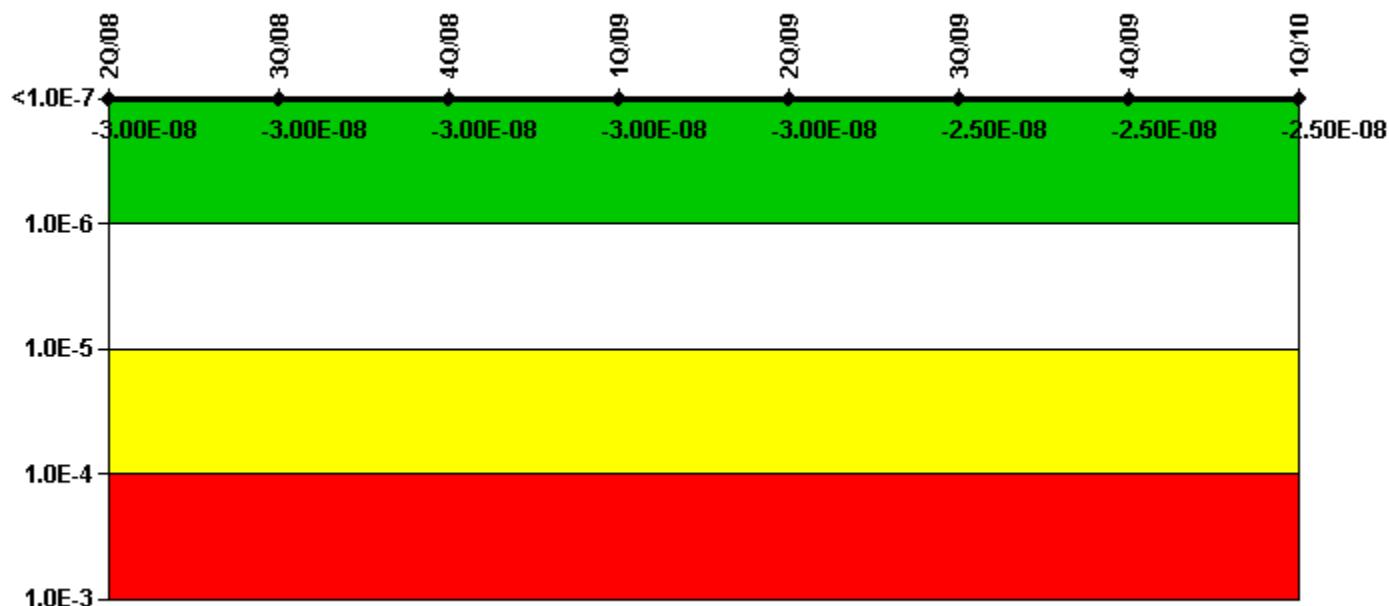
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-2.80E-11	8.10E-10	4.10E-10	1.80E-10	4.20E-10	3.80E-10	3.70E-10	3.49E-10
URI (Δ CDF)	2.50E-07	2.50E-07	1.50E-07	1.50E-07	1.50E-07	8.20E-08	8.20E-08	8.16E-08
PLE	NO							
Indicator value	2.50E-07	2.51E-07	1.50E-07	1.50E-07	1.50E-07	8.24E-08	8.24E-08	8.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



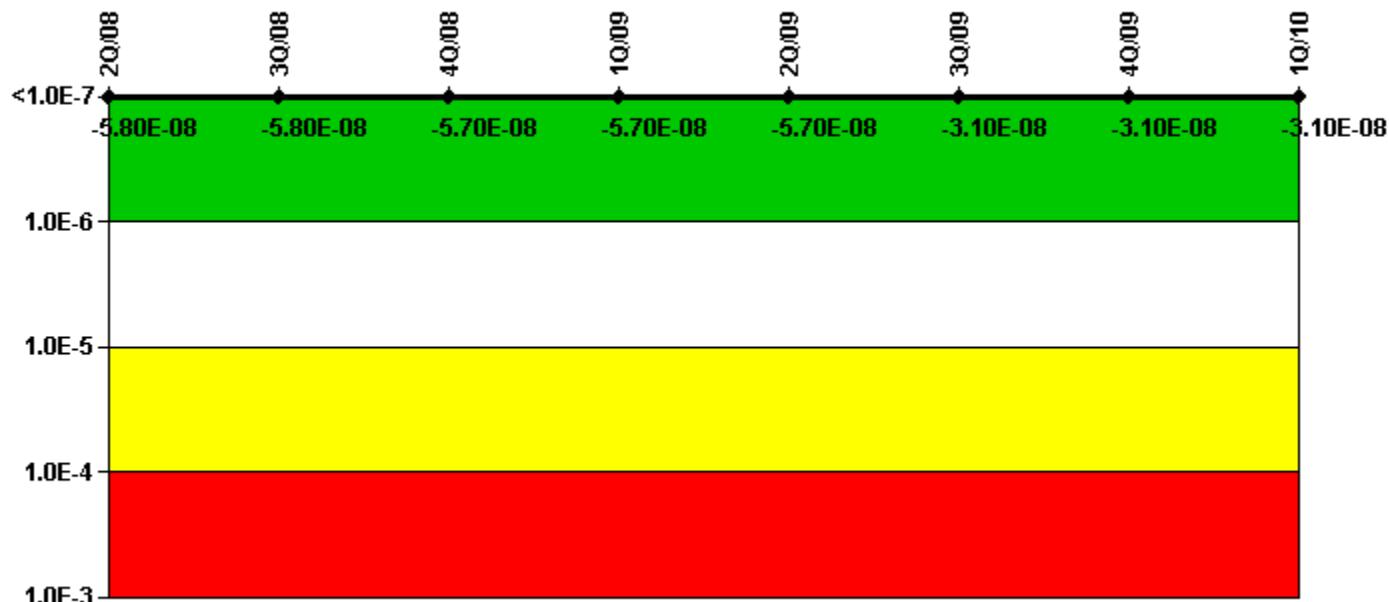
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-4.40E-11	-4.10E-11	-4.40E-11	-4.40E-11	-4.40E-11	-2.70E-11	-2.70E-11	-2.66E-11
URI (Δ CDF)	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-2.50E-08	-2.50E-08	-2.49E-08
PLE	NO							
Indicator value	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-2.50E-08	-2.50E-08	-2.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



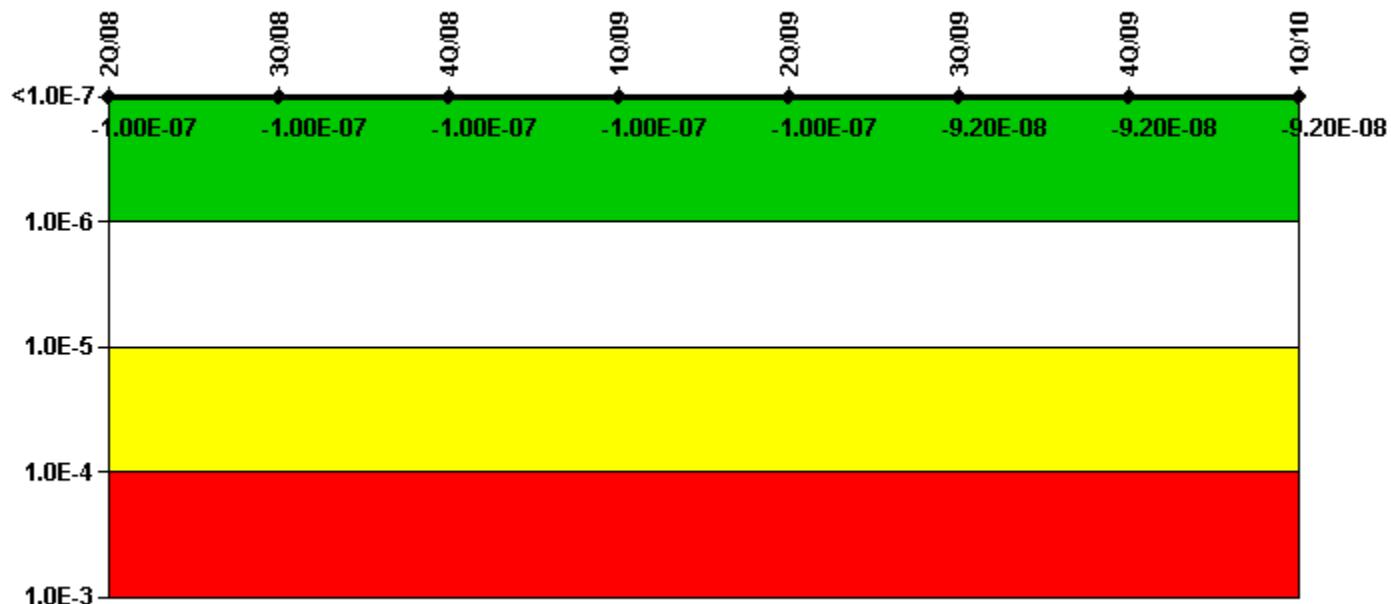
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-4.00E-11	-4.00E-11	-4.00E-11	-4.00E-11	-4.00E-11	-2.90E-11	-2.90E-11	-2.85E-11
URI (Δ CDF)	-5.80E-08	-5.80E-08	-5.70E-08	-5.70E-08	-5.70E-08	-3.10E-08	-3.10E-08	-3.05E-08
PLE	NO							
Indicator value	-5.80E-08	-5.80E-08	-5.70E-08	-5.70E-08	-5.70E-08	-3.10E-08	-3.10E-08	-3.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



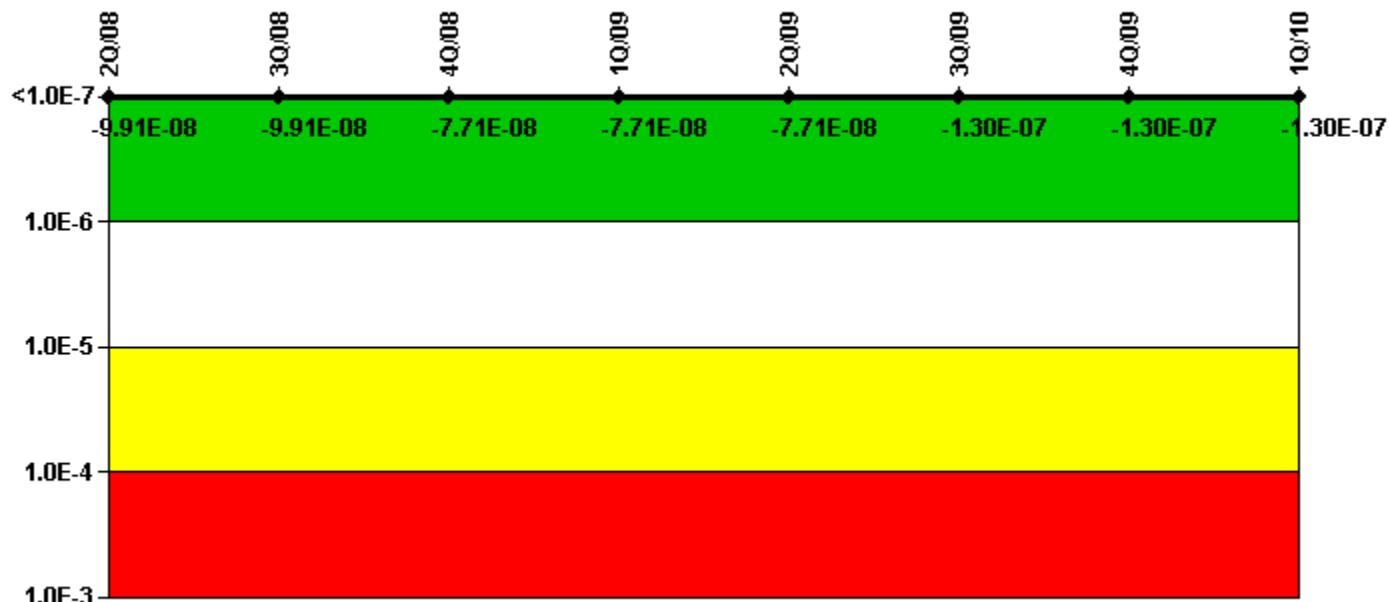
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-1.50E-13	-2.50E-13	-2.50E-13	-2.50E-13	-2.50E-13	-3.20E-13	-3.20E-13	-3.23E-13
URI (Δ CDF)	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-9.20E-08	-9.20E-08	-9.20E-08
PLE	NO							
Indicator value	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-9.20E-08	-9.20E-08	-9.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



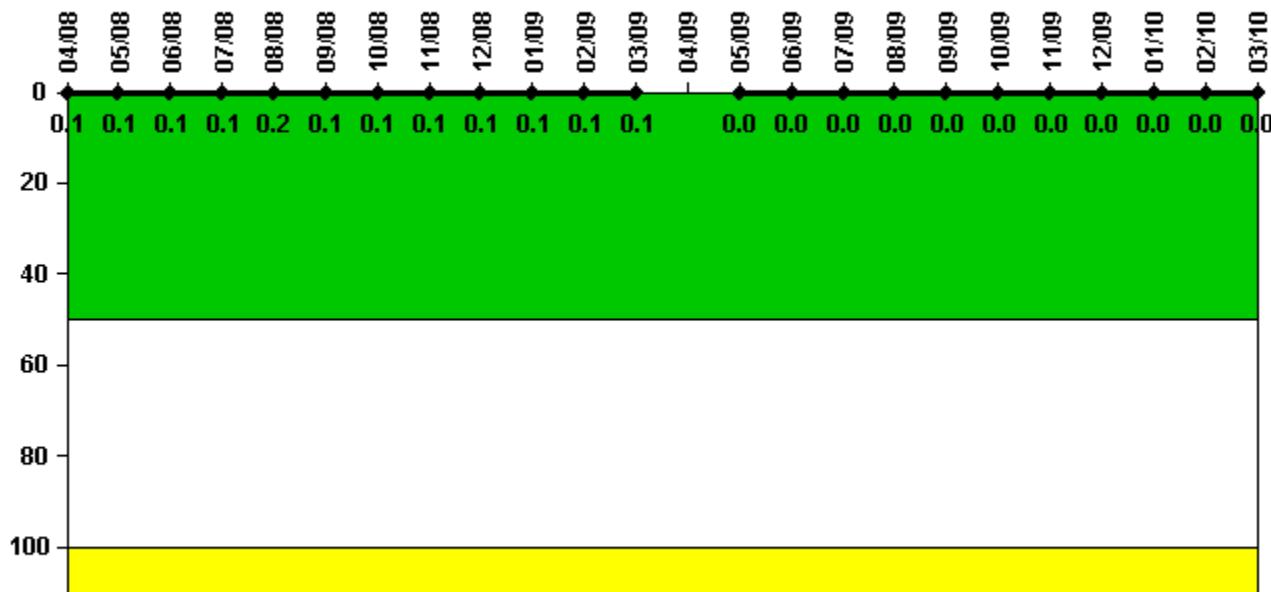
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-7.80E-11	-9.20E-11	-5.60E-11	-5.30E-11	-5.40E-11	-3.30E-11	-3.50E-11	-2.20E-12
URI (Δ CDF)	-9.90E-08	-9.90E-08	-7.70E-08	-7.70E-08	-7.70E-08	-1.30E-07	-1.30E-07	-1.27E-07
PLE	NO							
Indicator value	-9.91E-08	-9.91E-08	-7.71E-08	-7.71E-08	-7.71E-08	-1.30E-07	-1.30E-07	-1.30E-07

Licensee Comments: none

Reactor Coolant System Activity



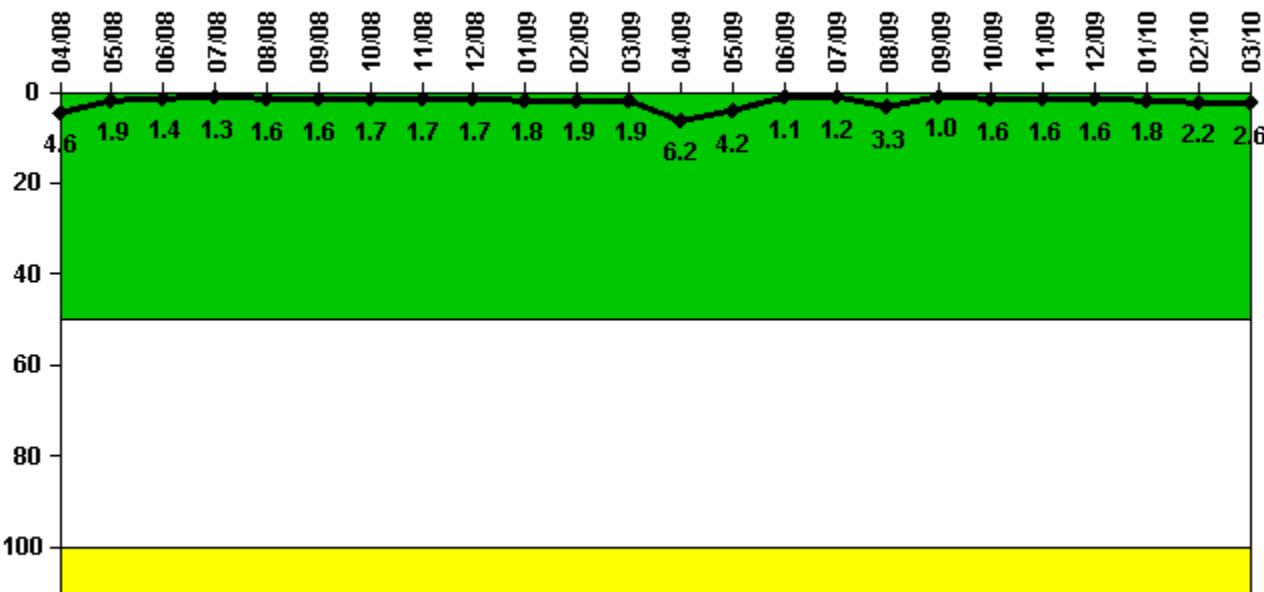
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum activity	0.000138	0.000138	0.000157	0.000161	0.000355	0.000168	0.000171	0.000173	0.000179	0.000188	0.000185	0.000249
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.1	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum activity	N/A	0.000135	0.000124	0.000127	0.000123	0.000130	0.000139	0.000143	0.000148	0.000151	0.000164	0.000162
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



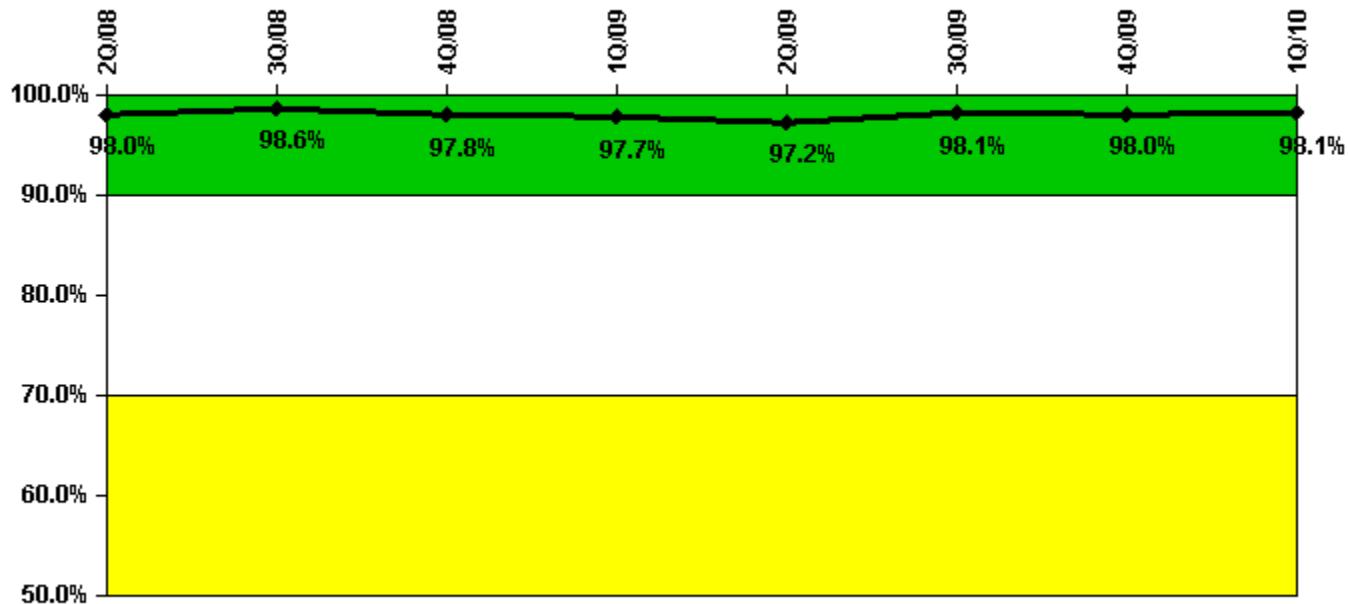
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum leakage	0.501	0.210	0.158	0.148	0.174	0.174	0.184	0.184	0.187	0.200	0.211	0.207
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	4.6	1.9	1.4	1.3	1.6	1.6	1.7	1.7	1.7	1.7	1.8	1.9
Reactor Coolant System Leakage	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum leakage	0.677	0.465	0.118	0.127	0.362	0.108	0.171	0.176	0.181	0.201	0.243	0.291
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	6.2	4.2	1.1	1.2	3.3	1.0	1.6	1.6	1.6	1.8	2.2	2.6

Licensee Comments: none

Drill/Exercise Performance



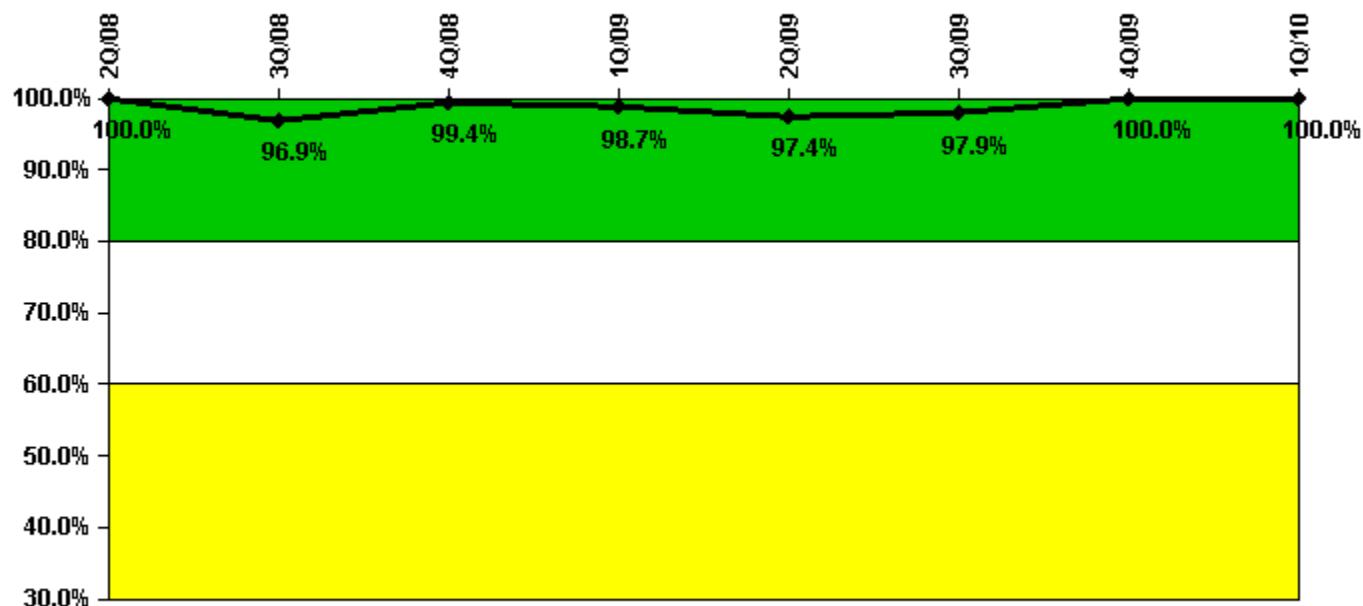
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful opportunities	27.0	132.0	96.0	47.0	5.0	82.0	16.0	12.0
Total opportunities	27.0	132.0	101.0	47.0	5.0	85.0	16.0	12.0
Indicator value	98.0%	98.6%	97.8%	97.7%	97.2%	98.1%	98.0%	98.1%

Licensee Comments: none

ERO Drill Participation



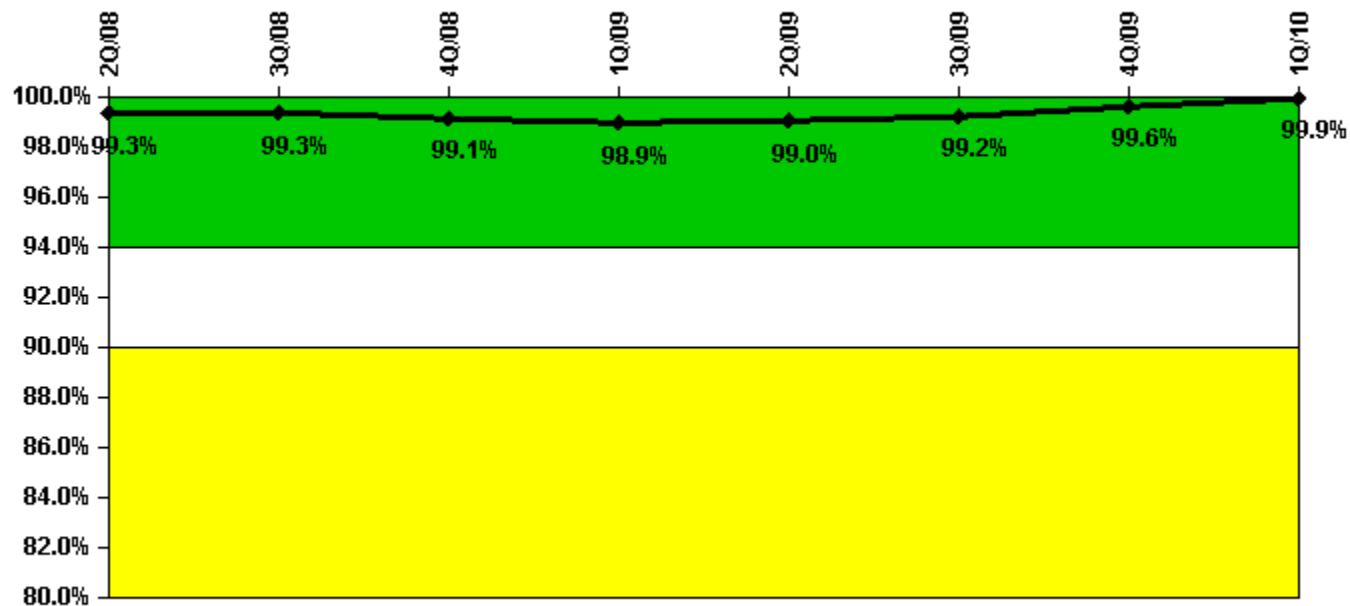
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Participating Key personnel	157.0	155.0	153.0	156.0	152.0	140.0	144.0	95.0
Total Key personnel	157.0	160.0	154.0	158.0	156.0	143.0	144.0	95.0
Indicator value	100.0%	96.9%	99.4%	98.7%	97.4%	97.9%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



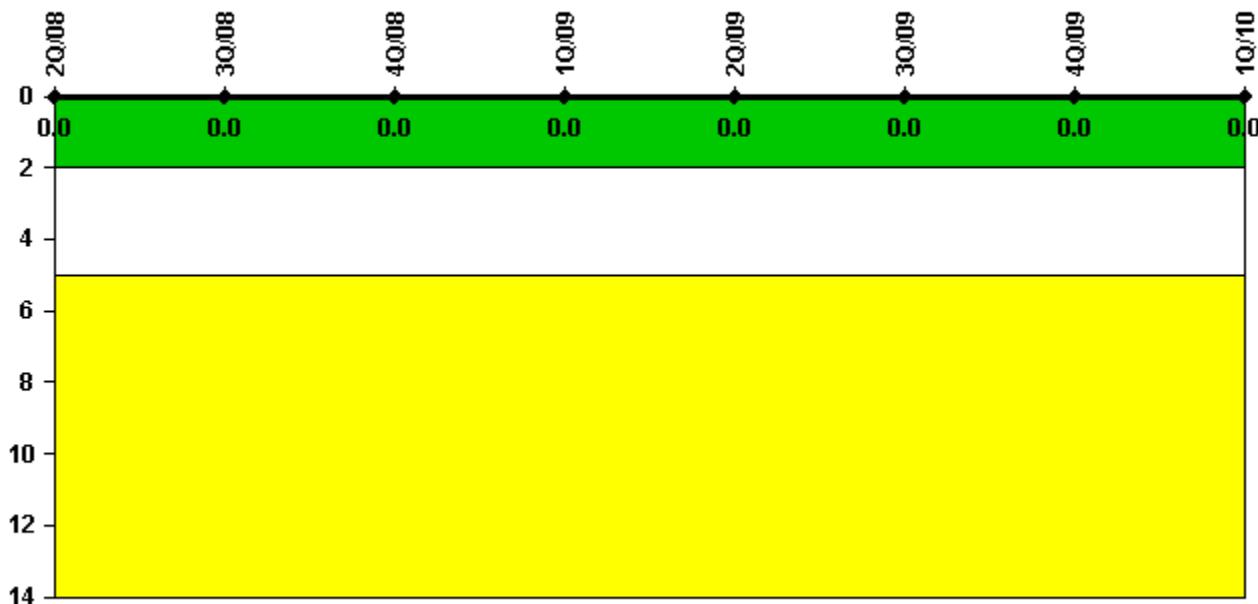
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful siren-tests	1112	1111	1171	1035	1117	1190	1115	1119
Total sirens-tests	1119	1120	1190	1050	1119	1190	1116	1119
Indicator value	99.3%	99.3%	99.1%	98.9%	99.0%	99.2%	99.6%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



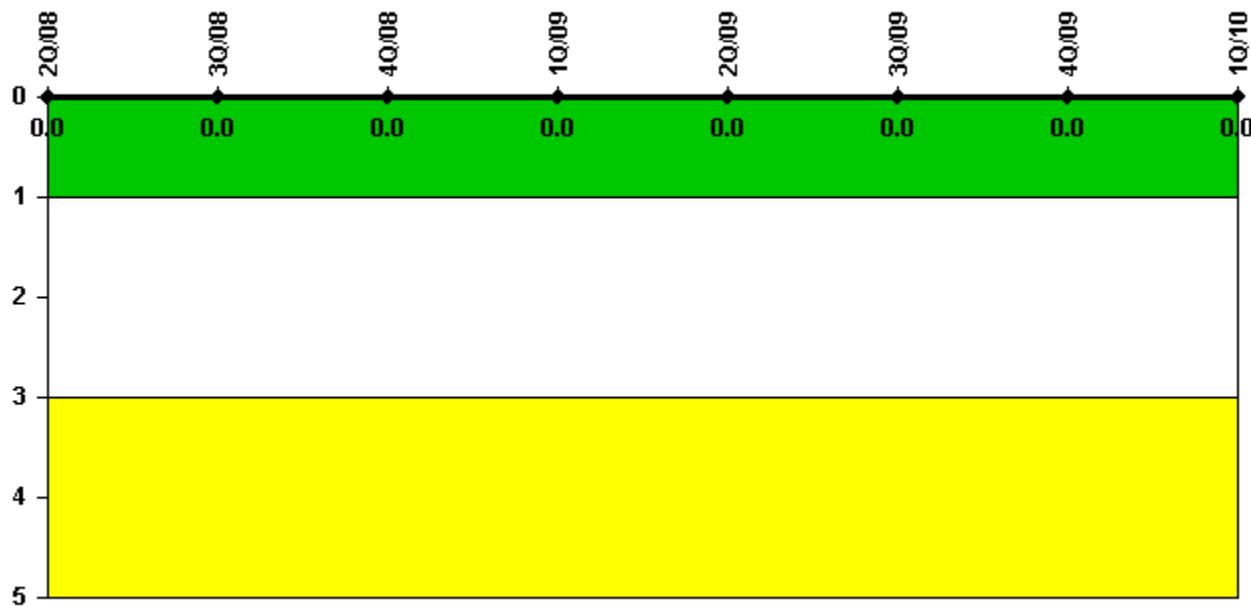
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Security](#) information not publicly available.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

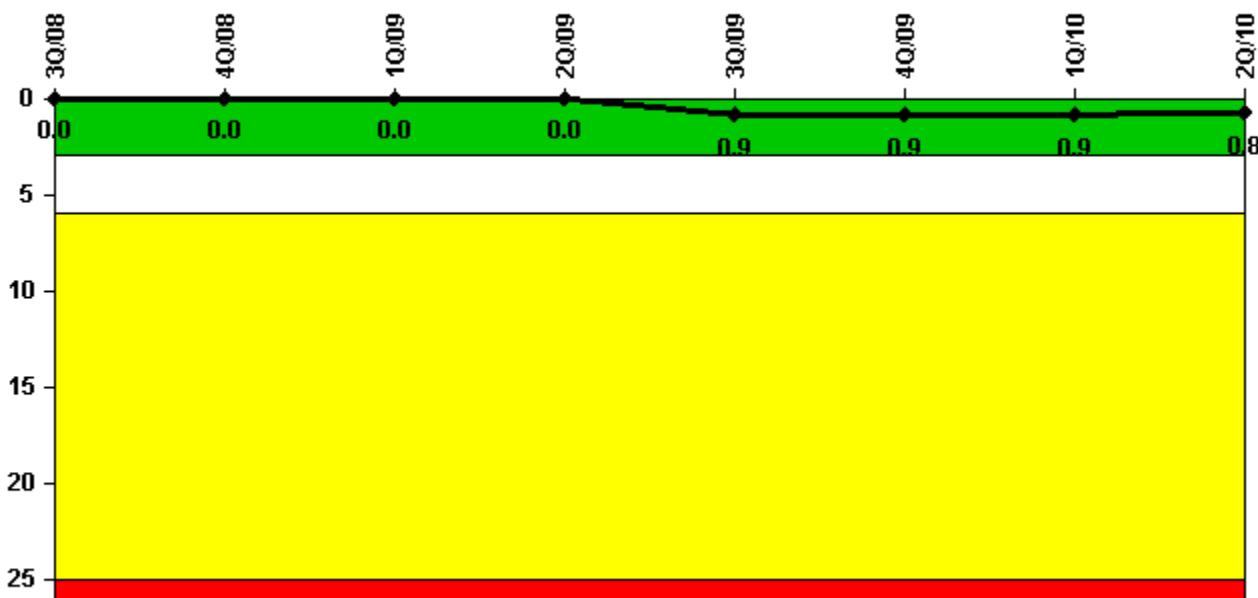
Last Modified: April 26, 2010

D.C. Cook 2

2Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



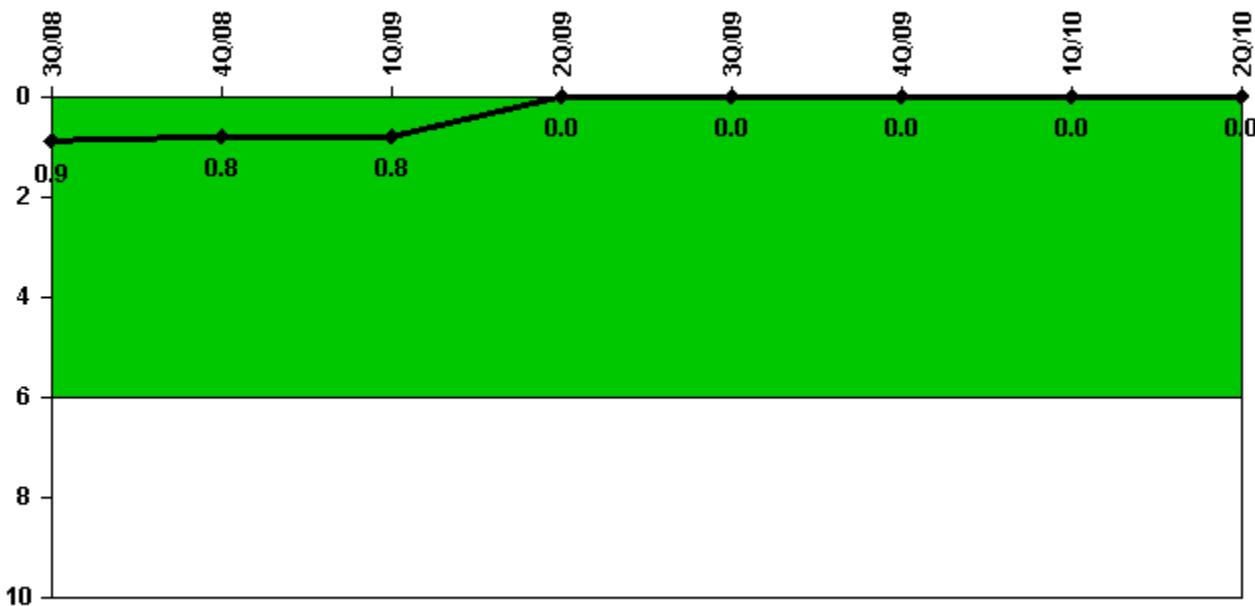
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2157.2	2209.0	1991.0	1489.3	1908.0	2209.0	2159.0	2184.0
Indicator value	0	0	0	0	0.9	0.9	0.9	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



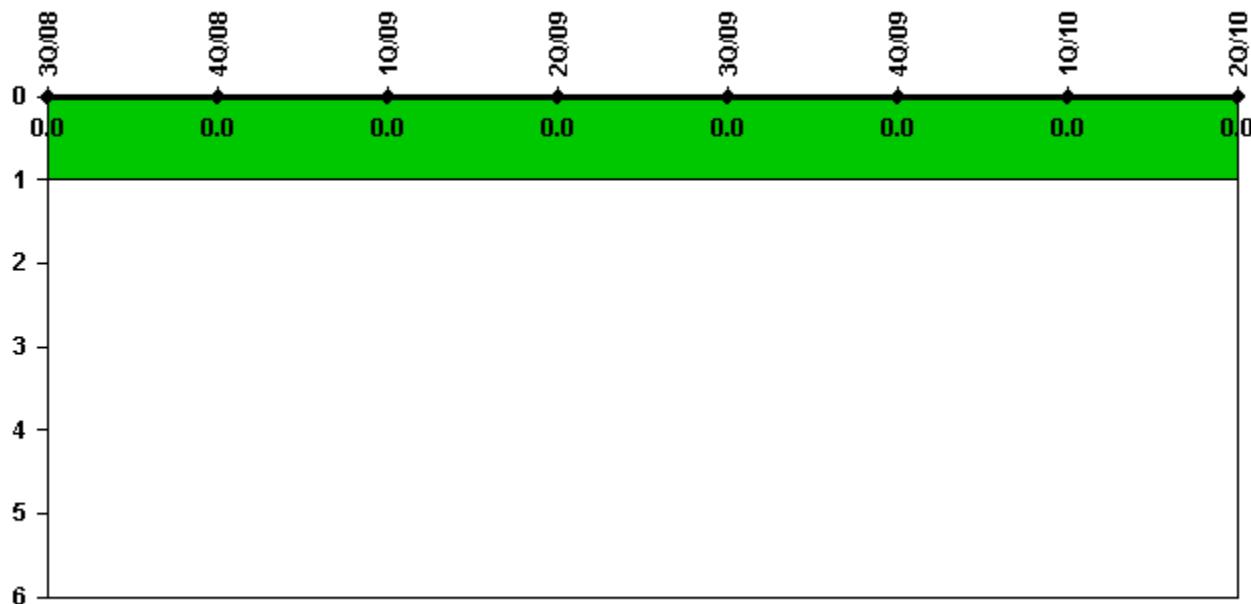
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2157.2	2209.0	1991.0	1489.3	1908.0	2209.0	2159.0	2184.0
Indicator value	0.9	0.8	0.8	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



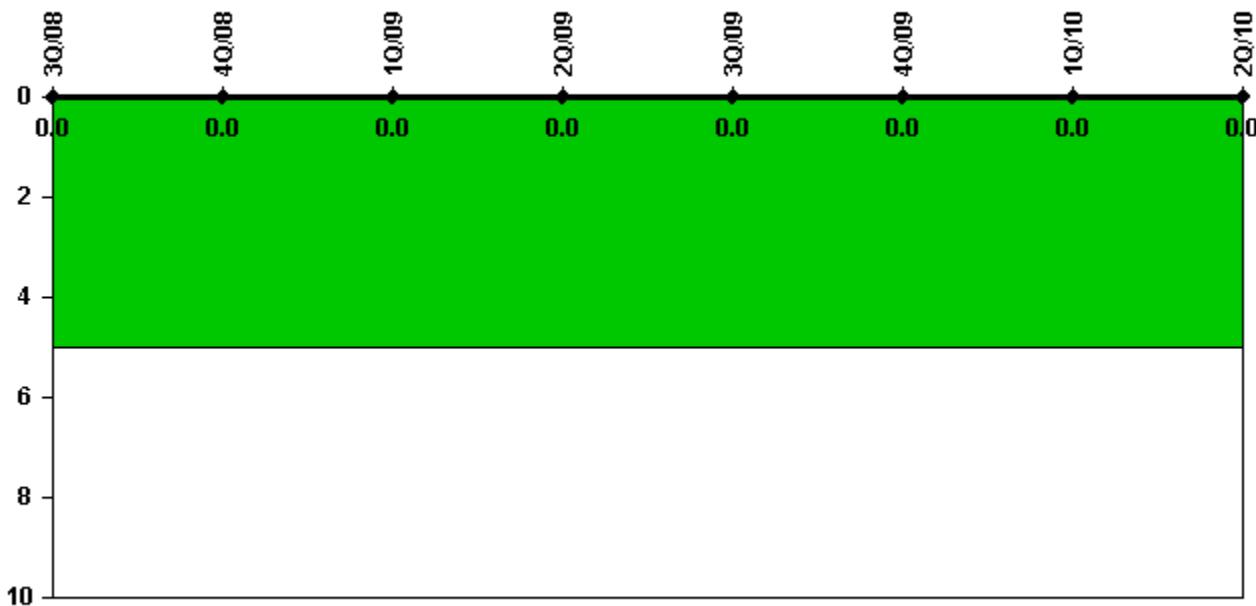
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



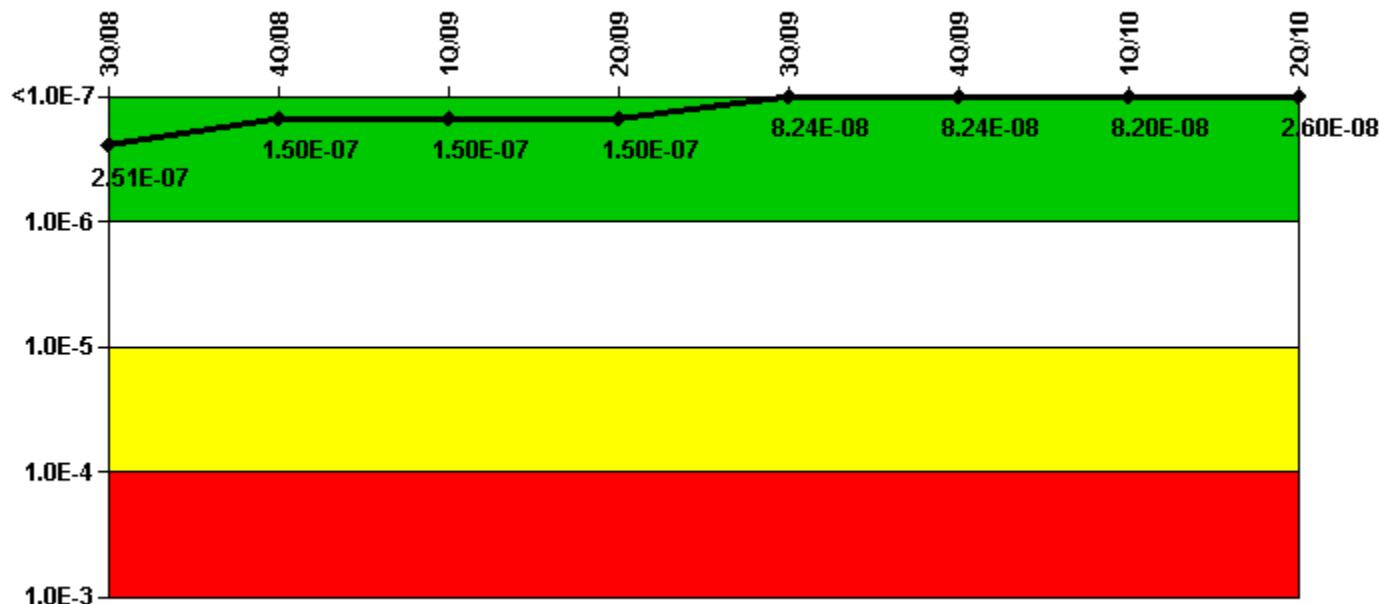
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



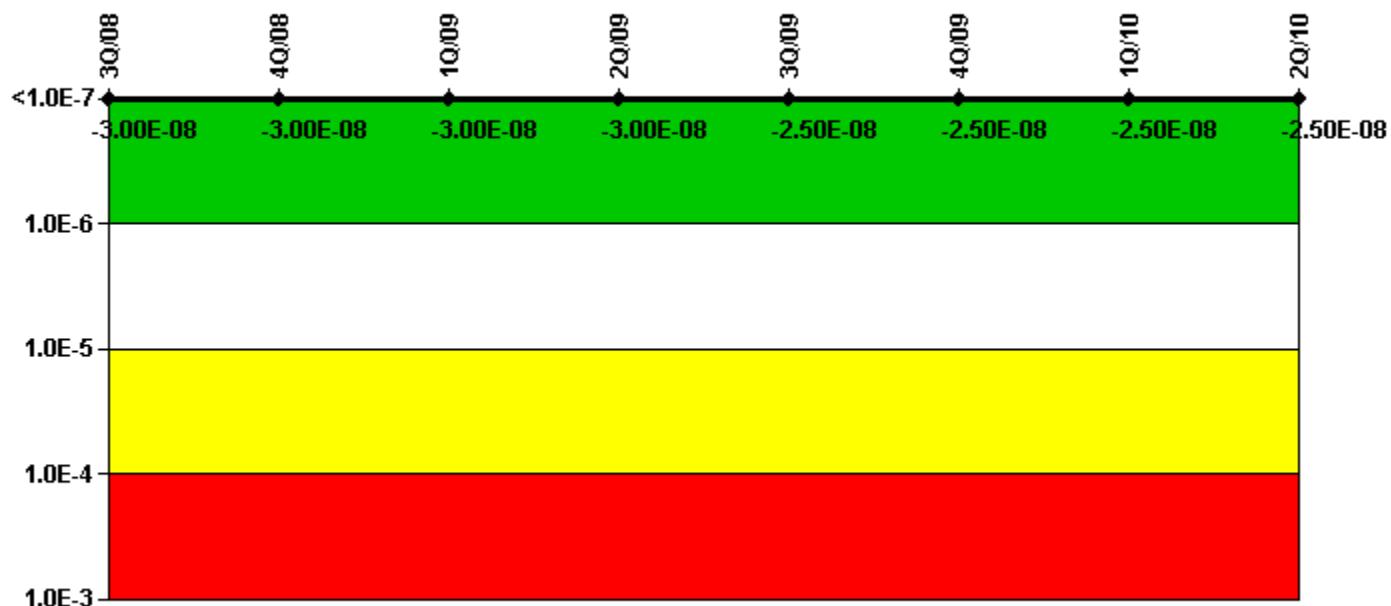
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	8.10E-10	4.10E-10	1.80E-10	4.20E-10	3.80E-10	3.70E-10	3.49E-10	2.06E-10
URI (Δ CDF)	2.50E-07	1.50E-07	1.50E-07	1.50E-07	8.20E-08	8.20E-08	8.16E-08	2.58E-08
PLE	NO							
Indicator value	2.51E-07	1.50E-07	1.50E-07	1.50E-07	8.24E-08	8.24E-08	8.20E-08	2.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



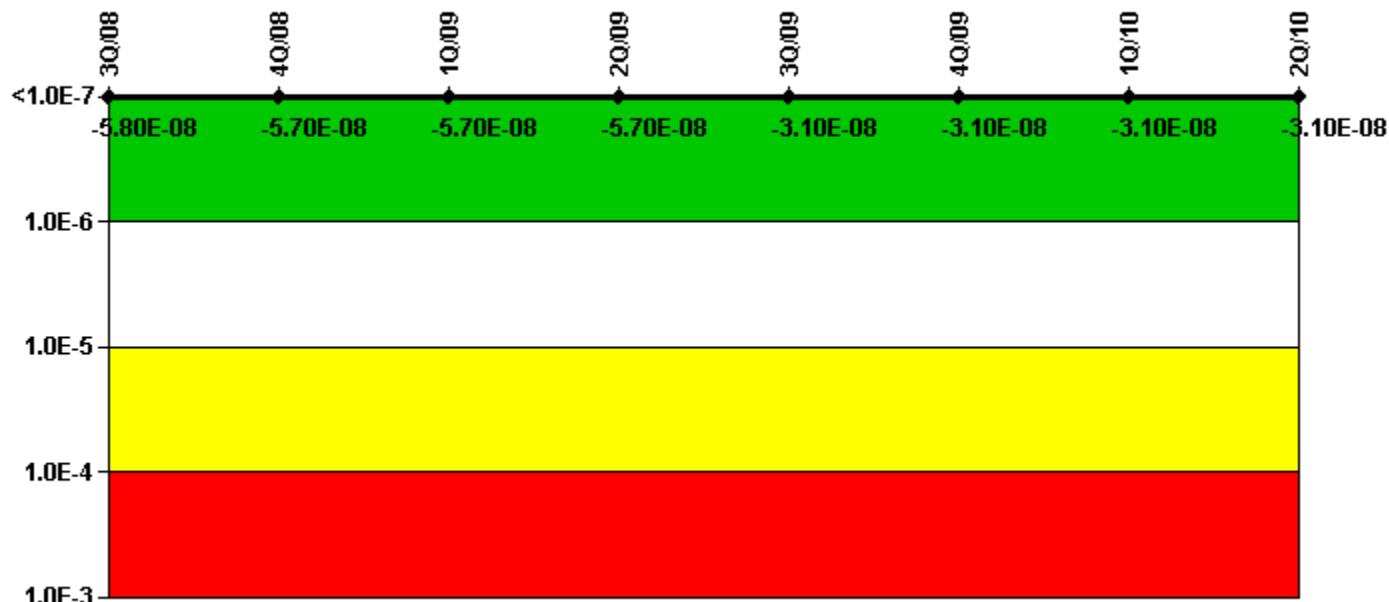
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	-4.10E-11	-4.40E-11	-4.40E-11	-4.40E-11	-2.70E-11	-2.70E-11	-2.66E-11	-2.66E-11
URI (Δ CDF)	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-2.50E-08	-2.50E-08	-2.49E-08	-2.49E-08
PLE	NO							
Indicator value	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-2.50E-08	-2.50E-08	-2.50E-08	-2.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



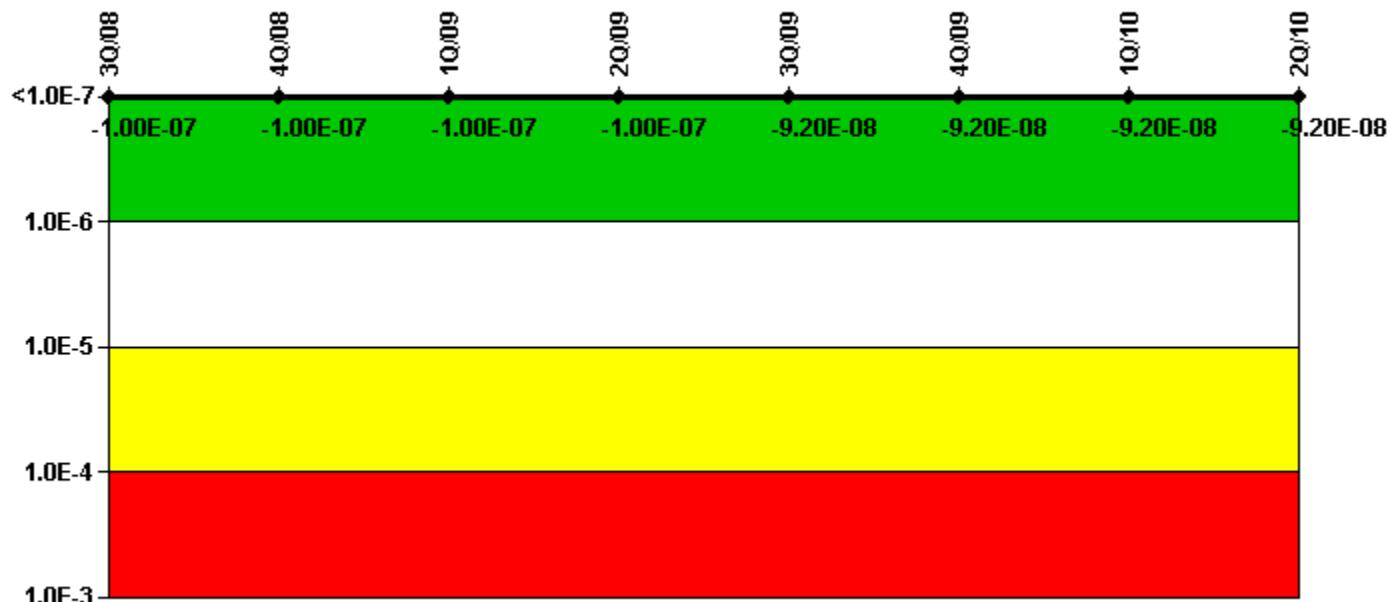
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	-4.00E-11	-4.00E-11	-4.00E-11	-4.00E-11	-2.90E-11	-2.90E-11	-2.85E-11	-2.85E-11
URI (Δ CDF)	-5.80E-08	-5.70E-08	-5.70E-08	-5.70E-08	-3.10E-08	-3.10E-08	-3.05E-08	-3.05E-08
PLE	NO							
Indicator value	-5.80E-08	-5.70E-08	-5.70E-08	-5.70E-08	-3.10E-08	-3.10E-08	-3.10E-08	-3.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



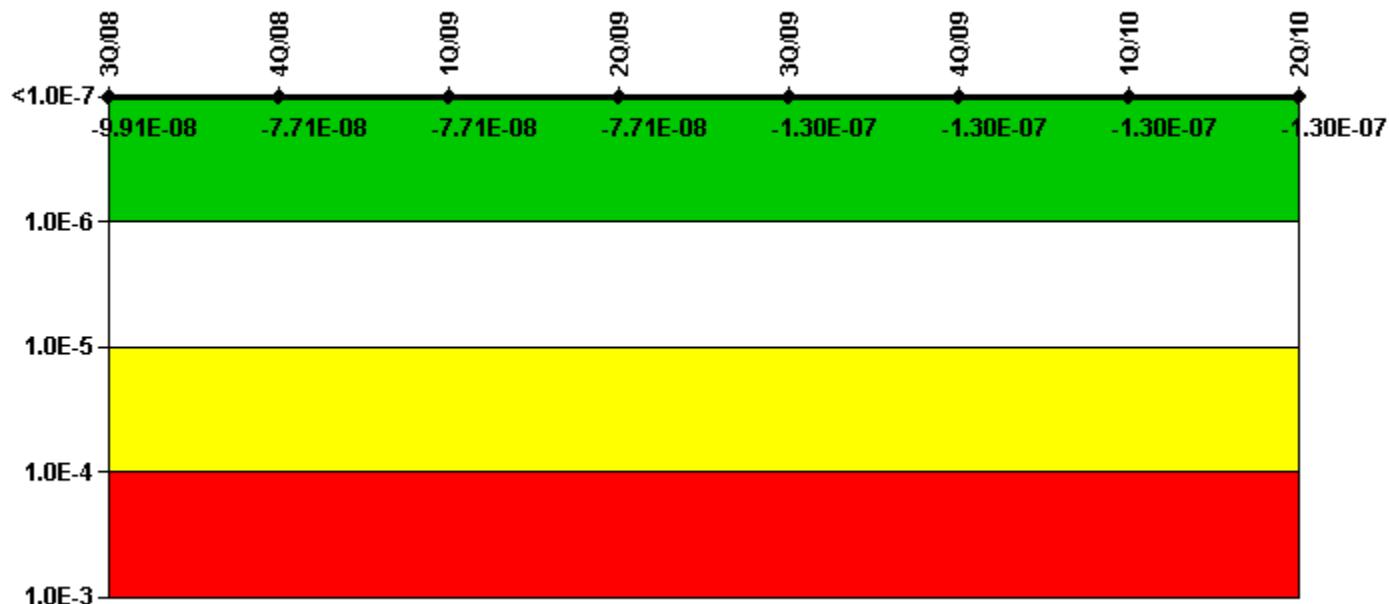
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	-2.50E-13	-2.50E-13	-2.50E-13	-2.50E-13	-3.20E-13	-3.20E-13	-3.23E-13	-3.23E-13
URI (Δ CDF)	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08
PLE	NO							
Indicator value	-1.00E-07	-1.00E-07	-1.00E-07	-1.00E-07	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



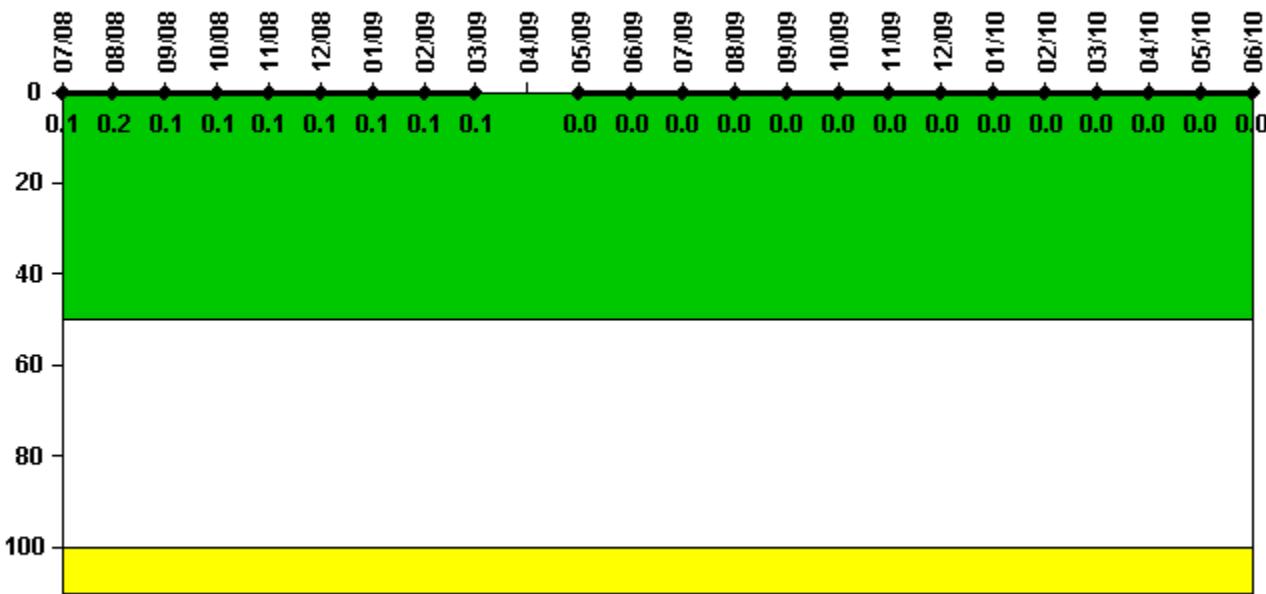
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	-9.20E-11	-5.60E-11	-5.30E-11	-5.40E-11	-3.30E-11	-3.50E-11	-2.20E-12	-6.80E-12
URI (Δ CDF)	-9.90E-08	-7.70E-08	-7.70E-08	-7.70E-08	-1.30E-07	-1.30E-07	-1.27E-07	-1.27E-07
PLE	NO							
Indicator value	-9.91E-08	-7.71E-08	-7.71E-08	-7.71E-08	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07

Licensee Comments: none

Reactor Coolant System Activity



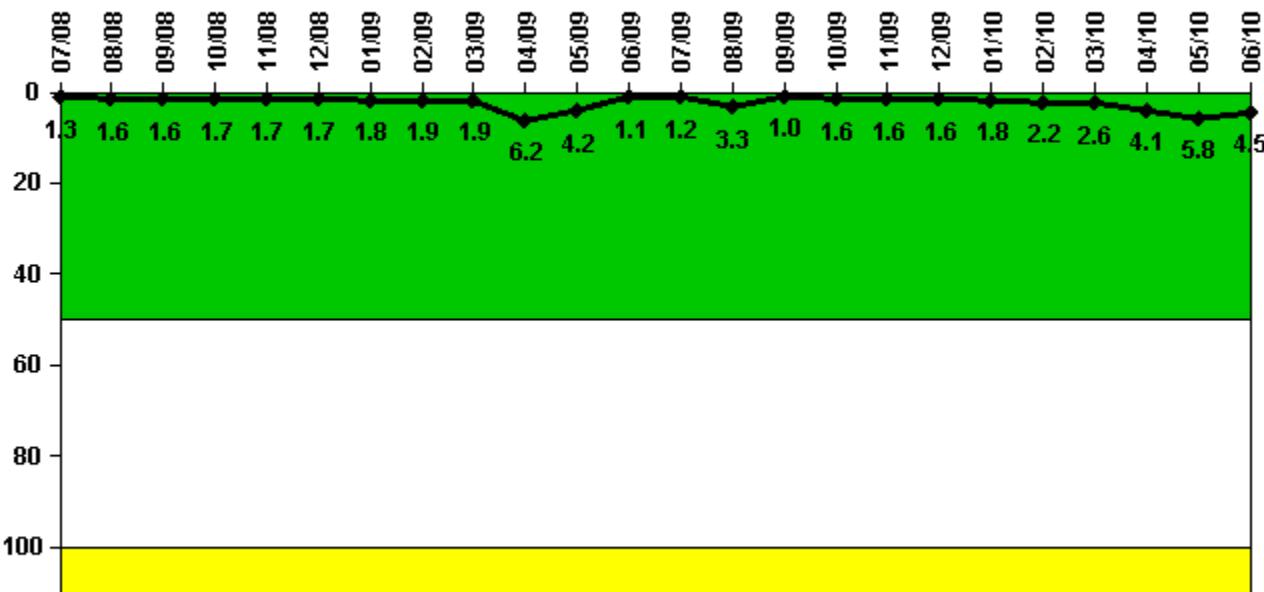
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum activity	0.000161	0.000355	0.000168	0.000171	0.000173	0.000179	0.000188	0.000185	0.000249	N/A	0.000135	0.000124
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	1.0	1.0	1.0
Indicator value	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N/A	0	0
Reactor Coolant System Activity	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum activity	0.000127	0.000123	0.000130	0.000139	0.000143	0.000148	0.000151	0.000164	0.000162	0.000163	0.000180	0.000171
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



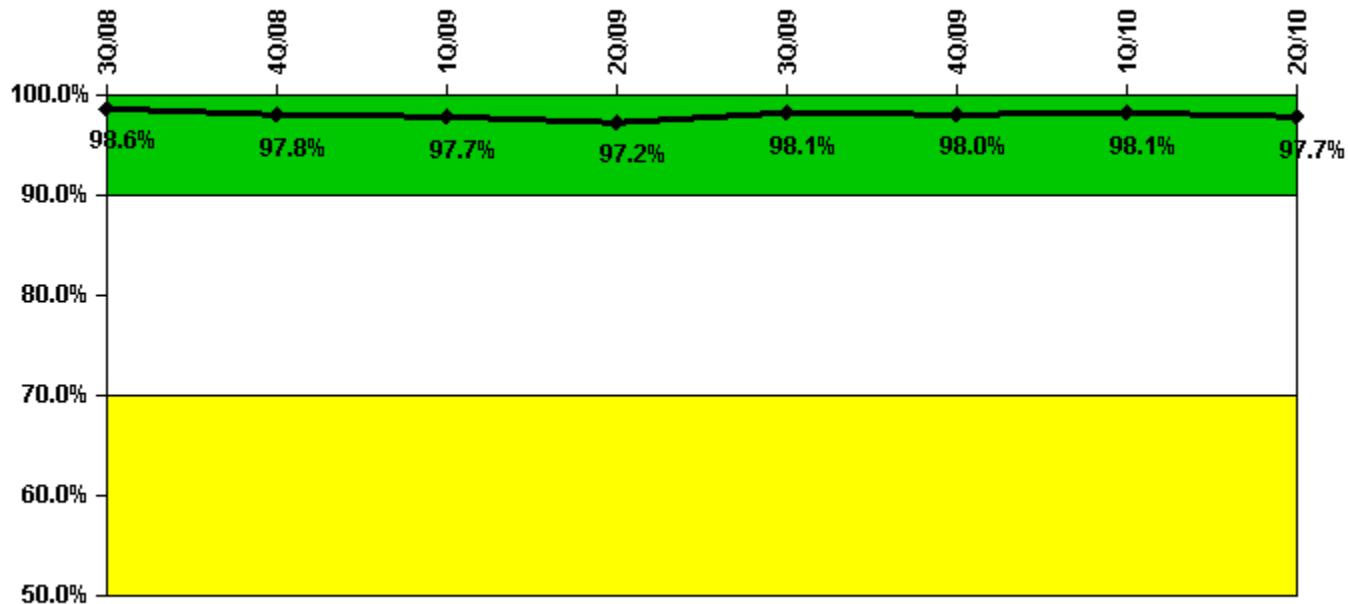
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum leakage	0.148	0.174	0.174	0.184	0.184	0.187	0.200	0.211	0.207	0.677	0.465	0.118
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	1.3	1.6	1.6	1.7	1.7	1.7	1.8	1.9	1.9	6.2	4.2	1.1
Reactor Coolant System Leakage	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum leakage	0.127	0.362	0.108	0.171	0.176	0.181	0.201	0.243	0.291	0.447	0.636	0.500
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	1.2	3.3	1.0	1.6	1.6	1.6	1.8	2.2	2.6	4.1	5.8	4.5

Licensee Comments: none

Drill/Exercise Performance



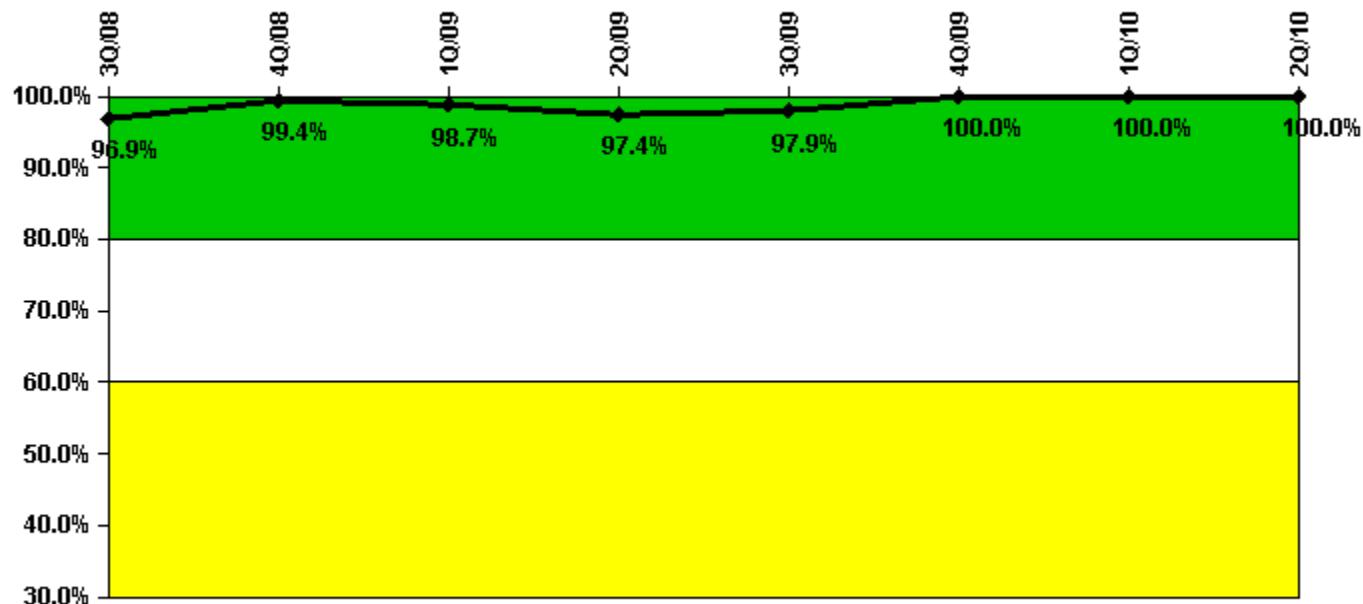
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful opportunities	132.0	96.0	47.0	5.0	82.0	16.0	12.0	26.0
Total opportunities	132.0	101.0	47.0	5.0	85.0	16.0	12.0	28.0
Indicator value	98.6%	97.8%	97.7%	97.2%	98.1%	98.0%	98.1%	97.7%

Licensee Comments: none

ERO Drill Participation



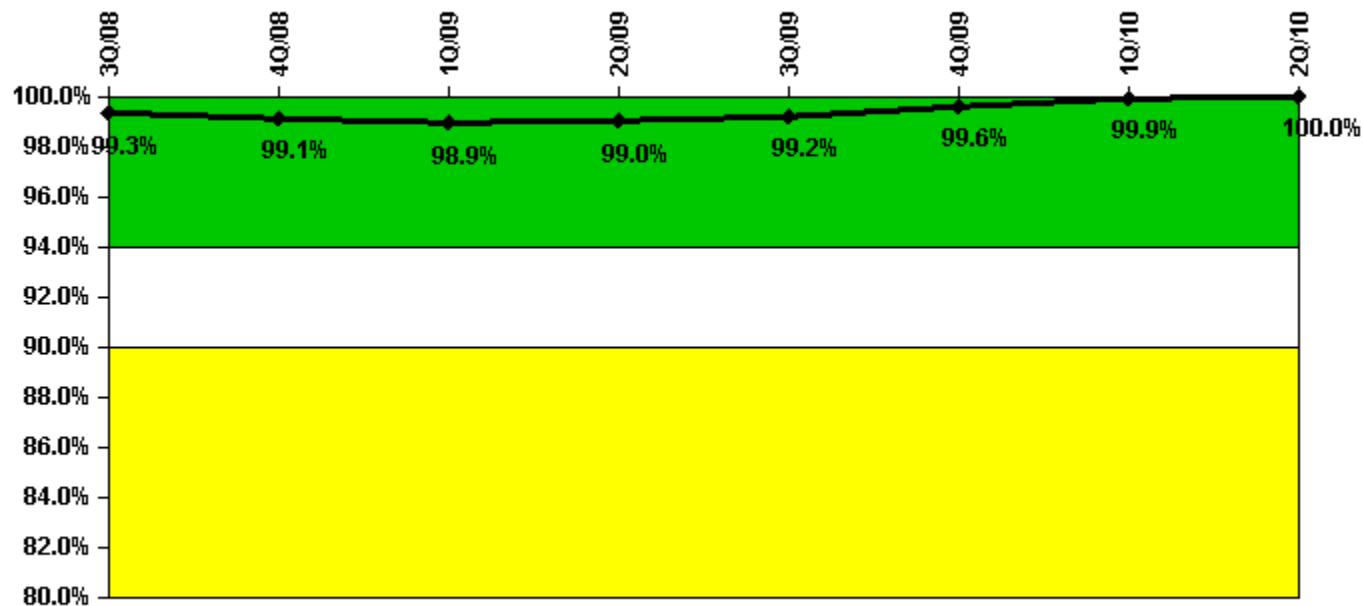
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Participating Key personnel	155.0	153.0	156.0	152.0	140.0	144.0	95.0	96.0
Total Key personnel	160.0	154.0	158.0	156.0	143.0	144.0	95.0	96.0
Indicator value	96.9%	99.4%	98.7%	97.4%	97.9%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



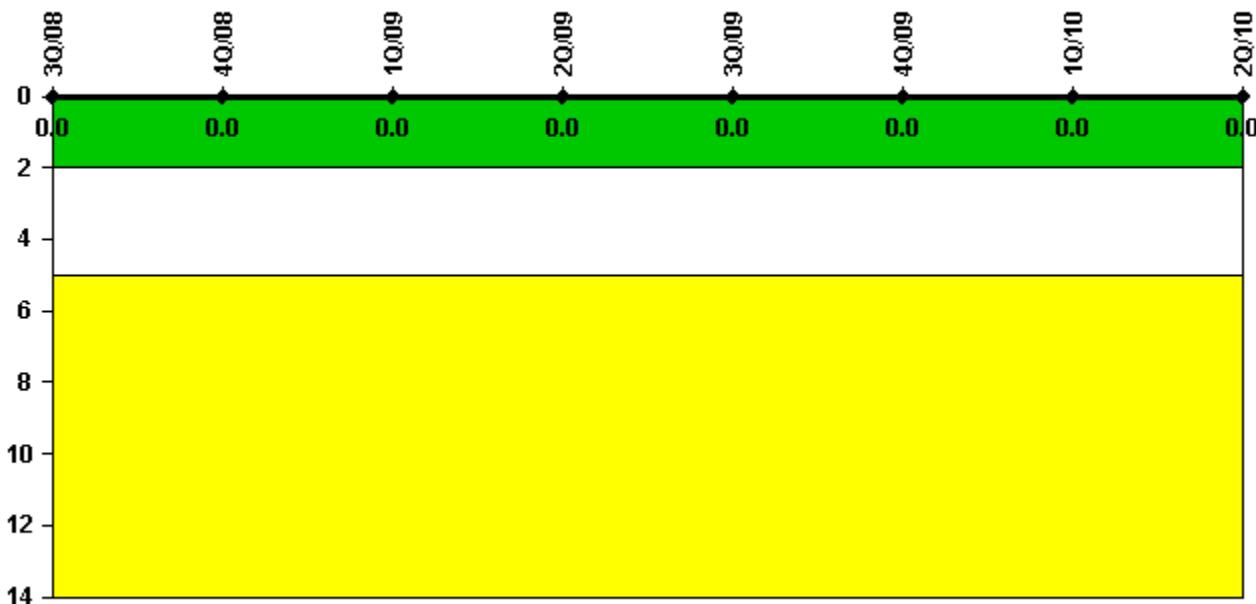
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful siren-tests	1111	1171	1035	1117	1190	1115	1119	1119
Total sirens-tests	1120	1190	1050	1119	1190	1116	1119	1119
Indicator value	99.3%	99.1%	98.9%	99.0%	99.2%	99.6%	99.9%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



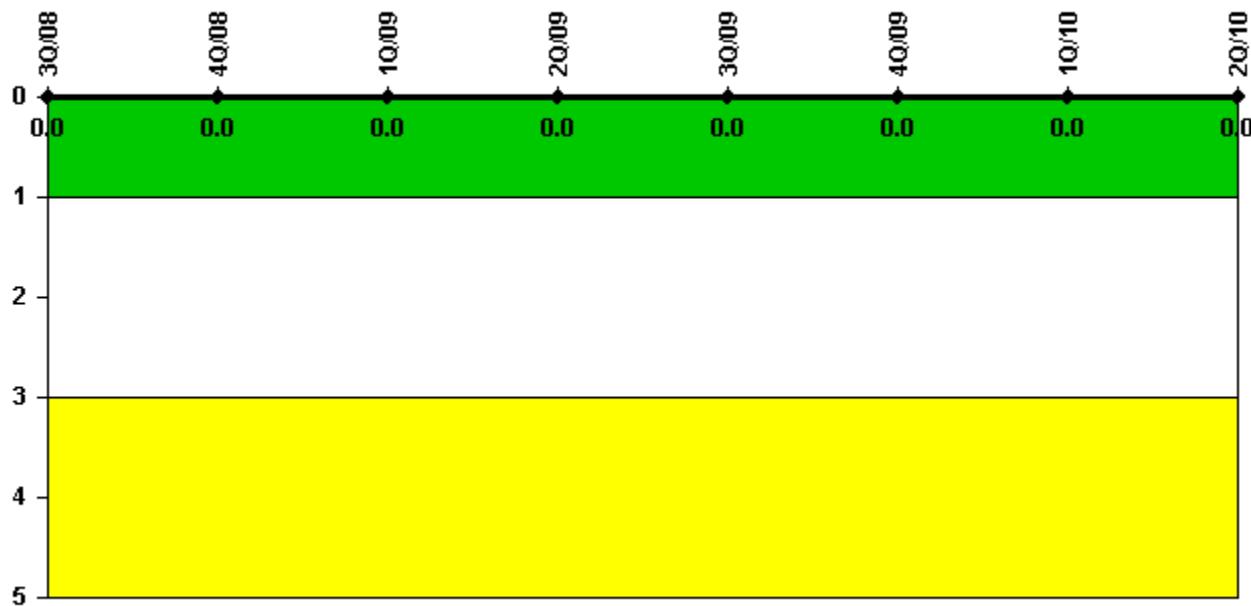
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Security information not publicly available.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

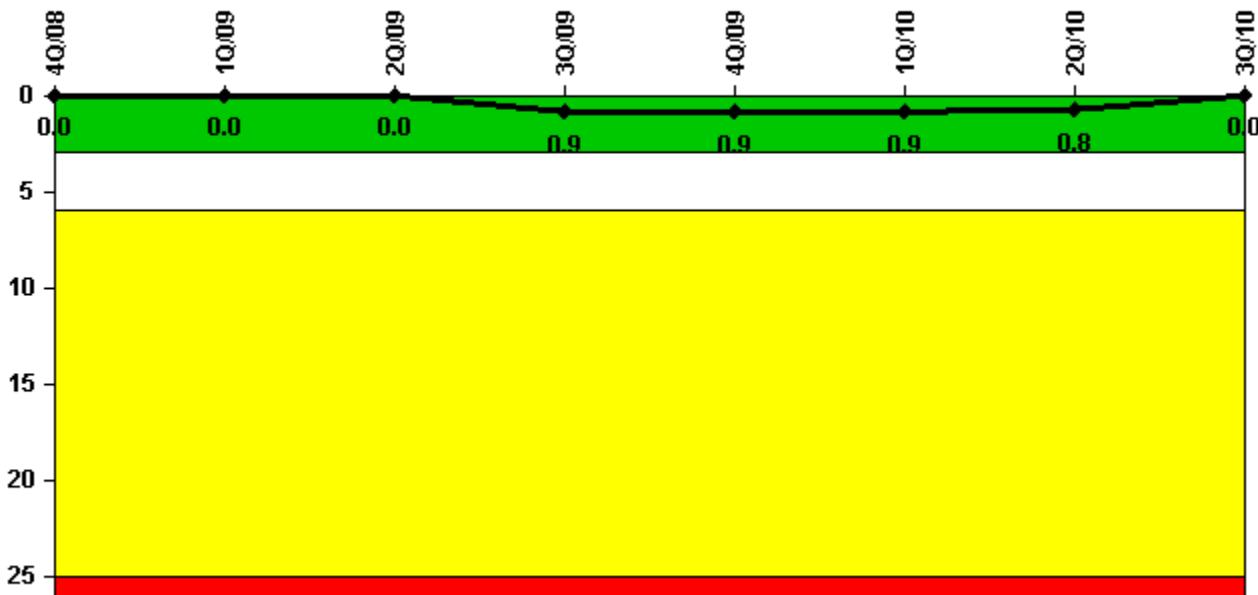
Last Modified: July 26, 2010

D.C. Cook 2

3Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



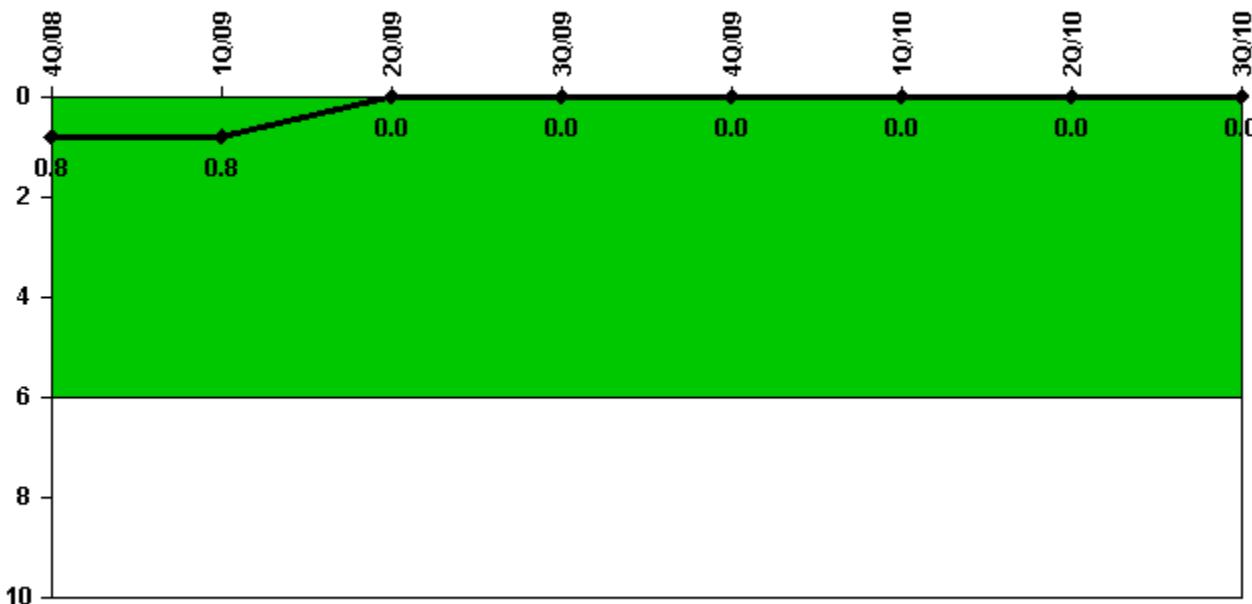
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2209.0	1991.0	1489.3	1908.0	2209.0	2159.0	2184.0	2208.0
Indicator value	0	0	0	0.9	0.9	0.9	0.8	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



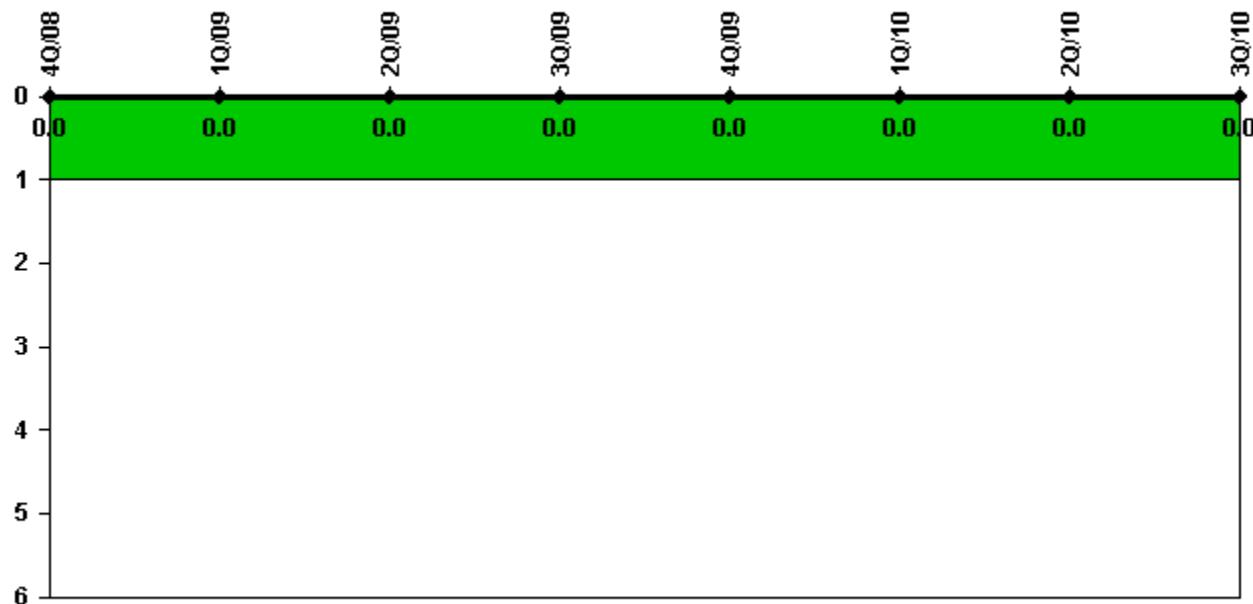
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	1991.0	1489.3	1908.0	2209.0	2159.0	2184.0	2208.0
Indicator value	0.8	0.8	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



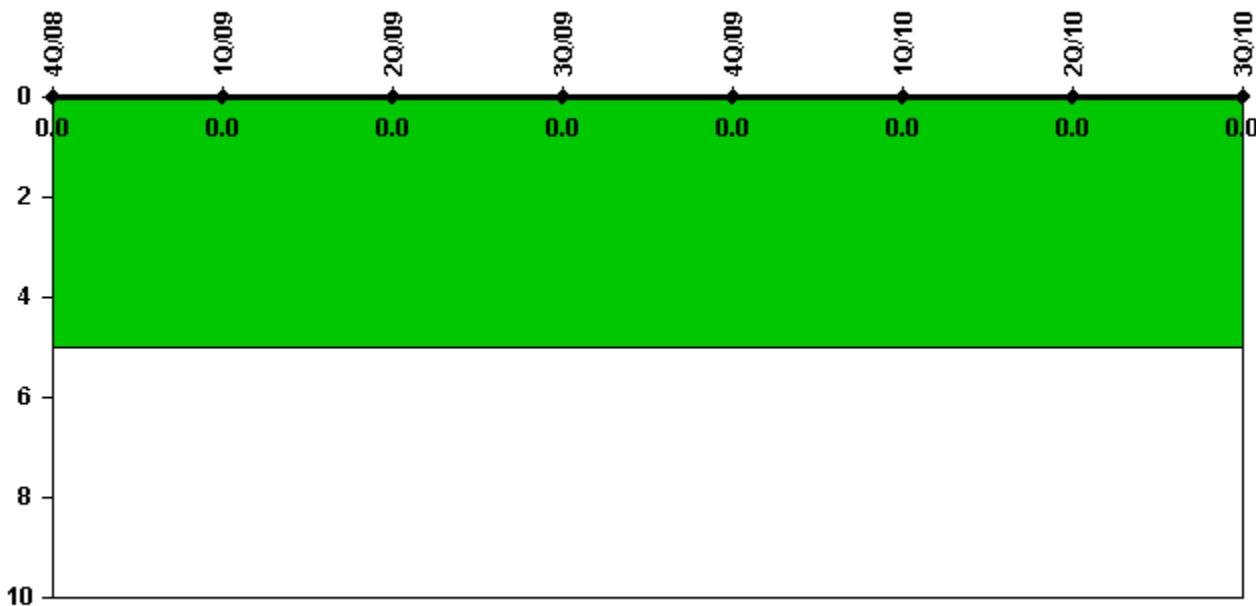
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



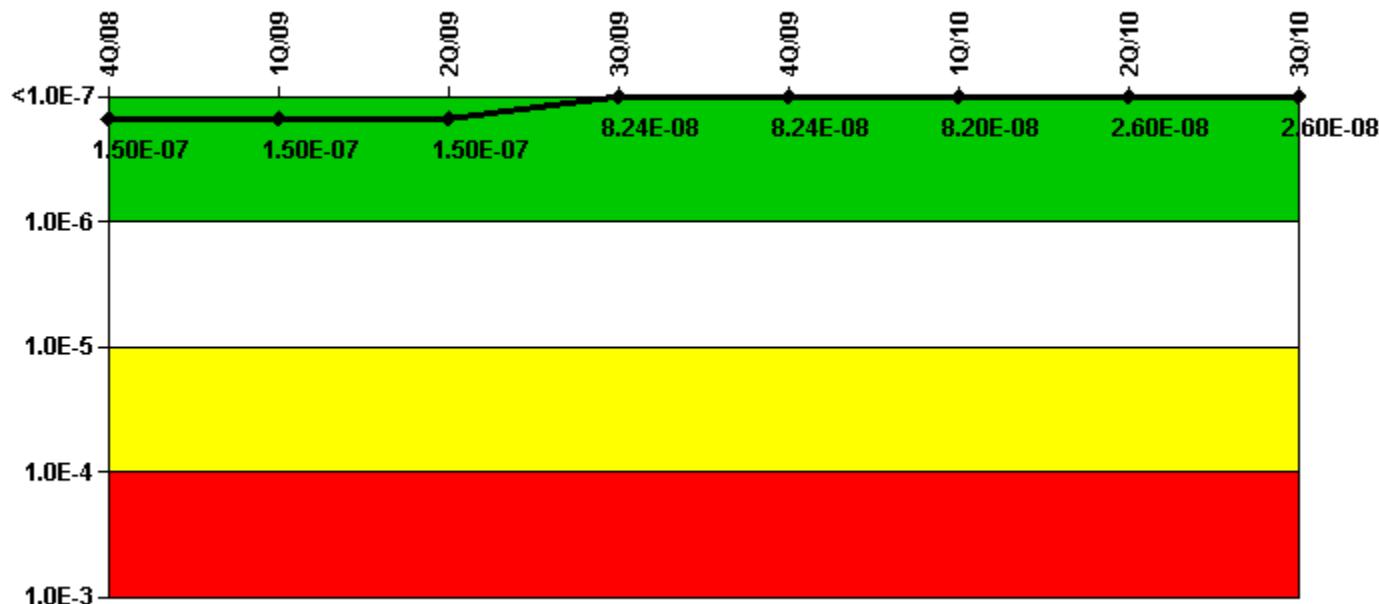
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



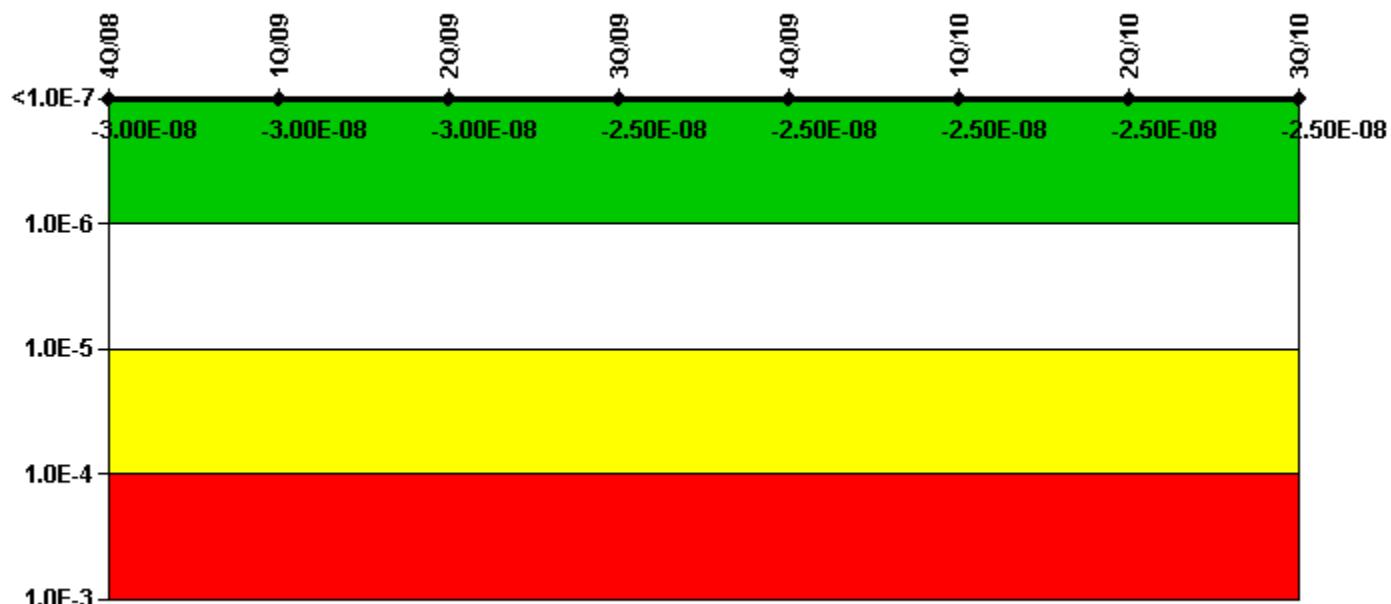
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	4.10E-10	1.80E-10	4.20E-10	3.80E-10	3.70E-10	3.49E-10	2.06E-10	5.69E-10
URI (Δ CDF)	1.50E-07	1.50E-07	1.50E-07	8.20E-08	8.20E-08	8.16E-08	2.58E-08	2.58E-08
PLE	NO							
Indicator value	1.50E-07	1.50E-07	1.50E-07	8.24E-08	8.24E-08	8.20E-08	2.60E-08	2.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



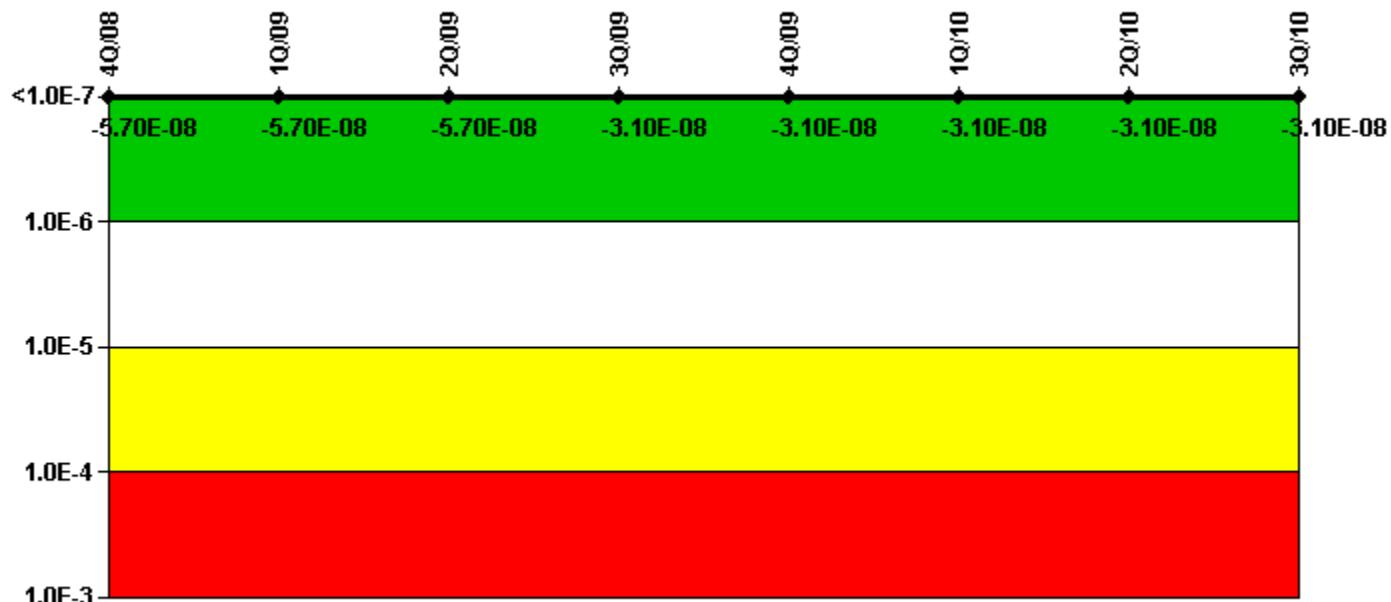
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	-4.40E-11	-4.40E-11	-4.40E-11	-2.70E-11	-2.70E-11	-2.66E-11	-2.66E-11	-2.66E-11
URI (Δ CDF)	-3.00E-08	-3.00E-08	-3.00E-08	-2.50E-08	-2.50E-08	-2.49E-08	-2.49E-08	-2.49E-08
PLE	NO							
Indicator value	-3.00E-08	-3.00E-08	-3.00E-08	-2.50E-08	-2.50E-08	-2.50E-08	-2.50E-08	-2.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



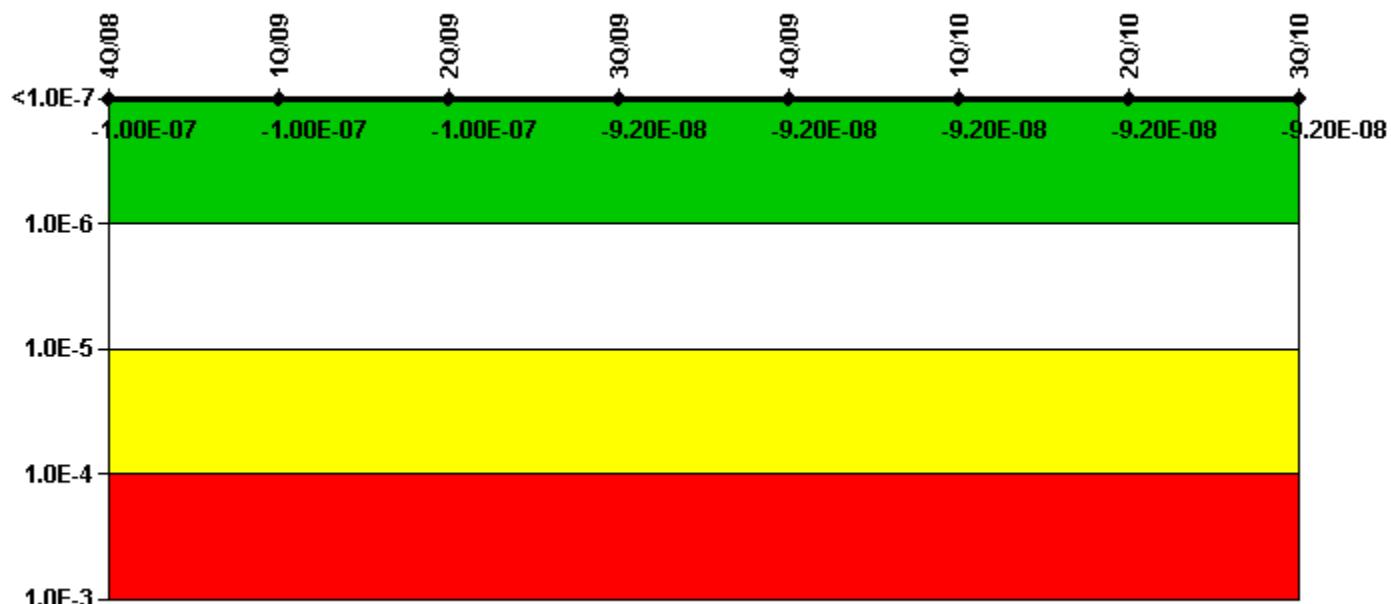
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	-4.00E-11	-4.00E-11	-4.00E-11	-2.90E-11	-2.90E-11	-2.85E-11	-2.85E-11	-2.85E-11
URI (Δ CDF)	-5.70E-08	-5.70E-08	-5.70E-08	-3.10E-08	-3.10E-08	-3.05E-08	-3.05E-08	-3.05E-08
PLE	NO							
Indicator value	-5.70E-08	-5.70E-08	-5.70E-08	-3.10E-08	-3.10E-08	-3.10E-08	-3.10E-08	-3.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



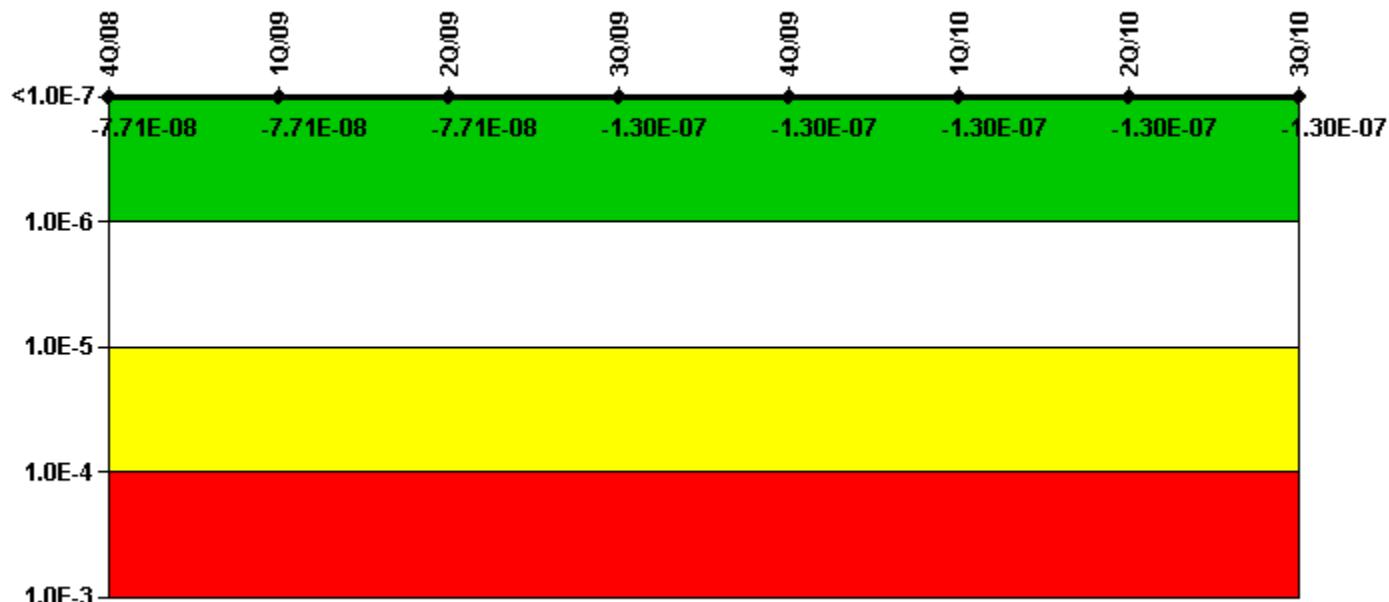
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	-2.50E-13	-2.50E-13	-2.50E-13	-3.20E-13	-3.20E-13	-3.23E-13	-3.23E-13	-3.23E-13
URI (Δ CDF)	-1.00E-07	-1.00E-07	-1.00E-07	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08
PLE	NO							
Indicator value	-1.00E-07	-1.00E-07	-1.00E-07	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



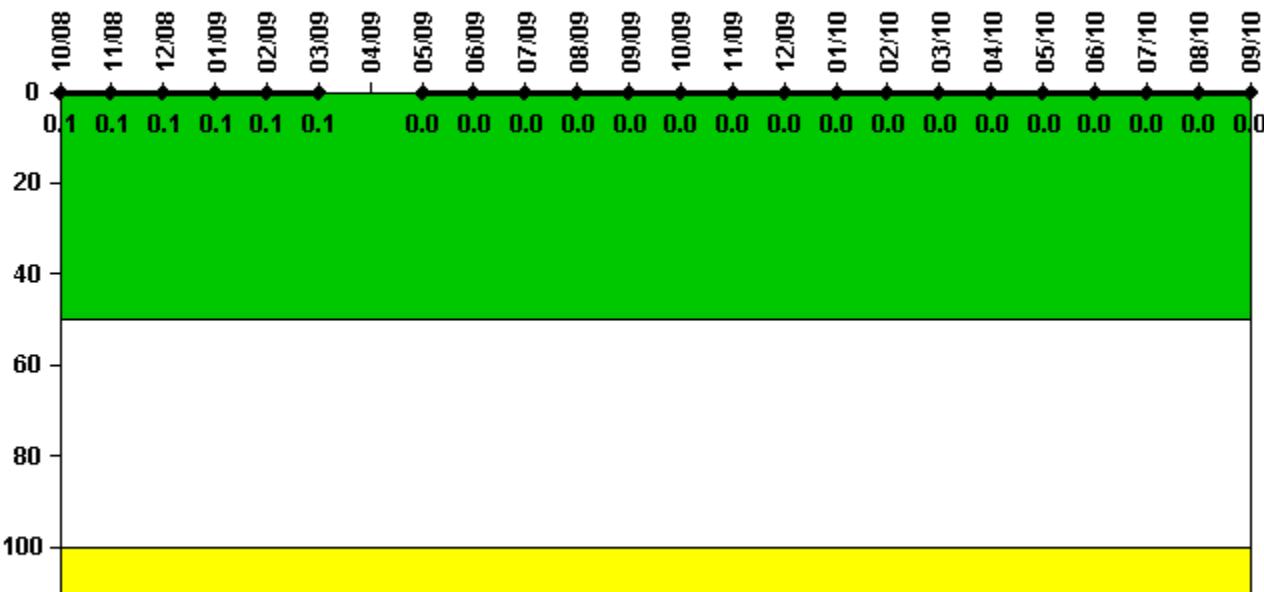
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	-5.60E-11	-5.30E-11	-5.40E-11	-3.30E-11	-3.50E-11	-2.20E-12	-6.80E-12	-3.53E-11
URI (Δ CDF)	-7.70E-08	-7.70E-08	-7.70E-08	-1.30E-07	-1.30E-07	-1.27E-07	-1.27E-07	-1.27E-07
PLE	NO							
Indicator value	-7.71E-08	-7.71E-08	-7.71E-08	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07

Licensee Comments: none

Reactor Coolant System Activity

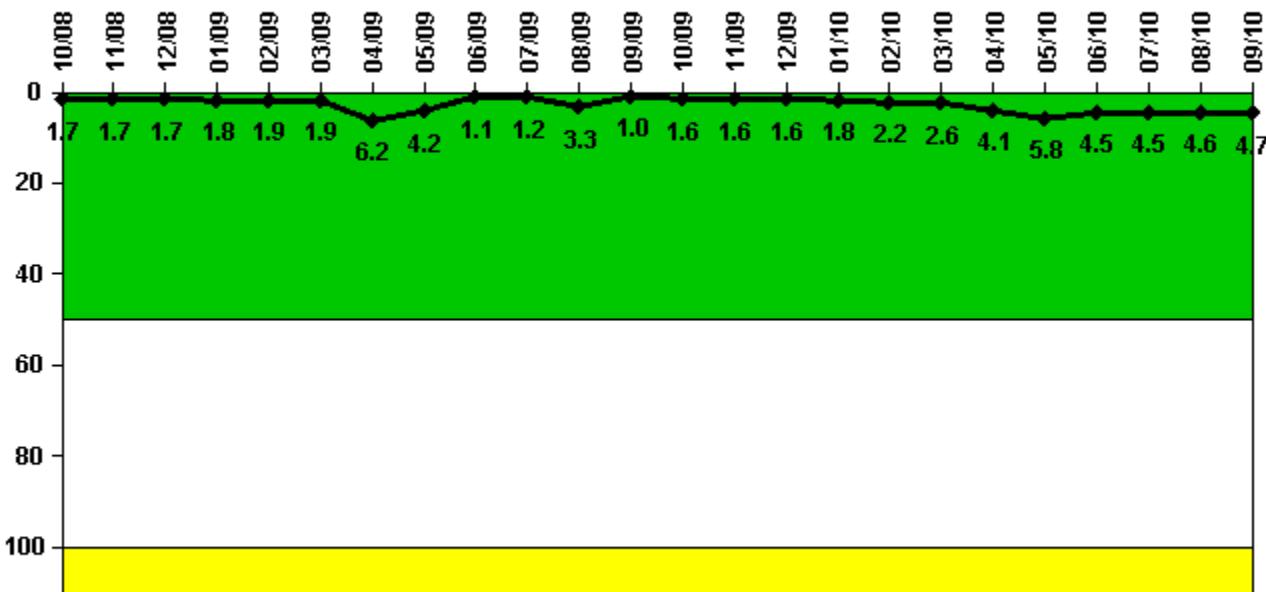


Thresholds: White > 50.0 Yellow > 100.0

Notes

Licensee Comments: none

Reactor Coolant System Leakage



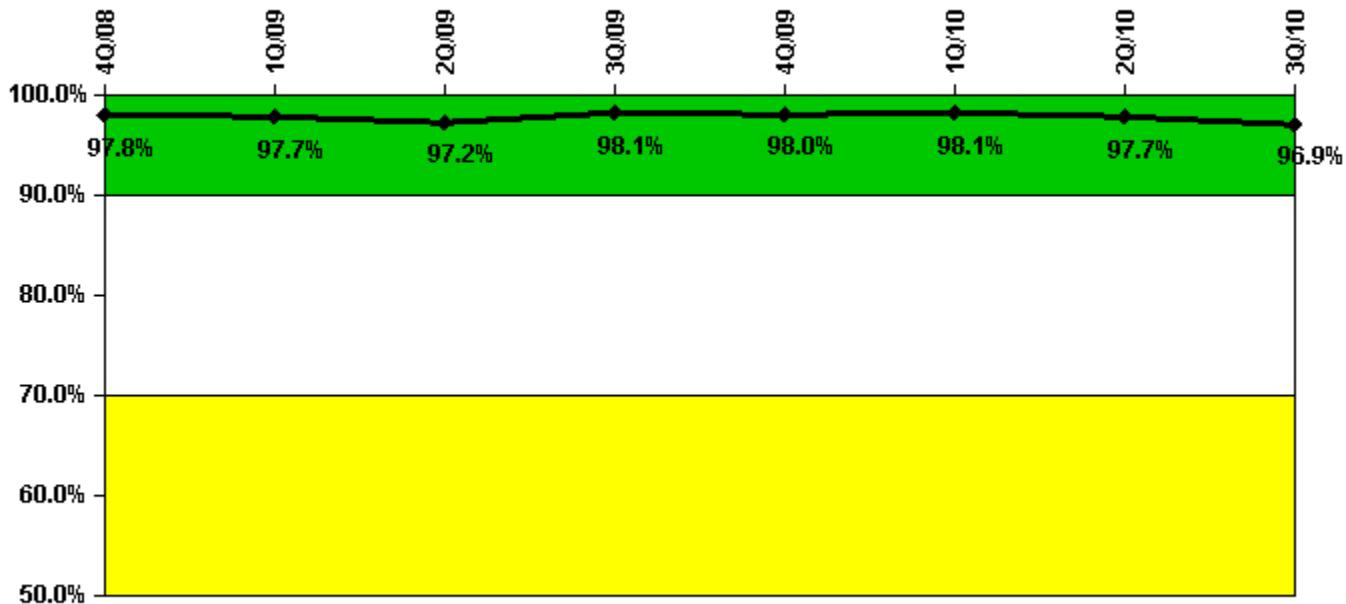
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum leakage	0.184	0.184	0.187	0.200	0.211	0.207	0.677	0.465	0.118	0.127	0.362	0.108
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	1.7	1.7	1.7	1.8	1.9	1.9	6.2	4.2	1.1	1.2	3.3	1.0
Reactor Coolant System Leakage	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum leakage	0.171	0.176	0.181	0.201	0.243	0.291	0.447	0.636	0.500	0.497	0.502	0.515
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	1.6	1.6	1.6	1.8	2.2	2.6	4.1	5.8	4.5	4.5	4.6	4.7

Licensee Comments: none

Drill/Exercise Performance



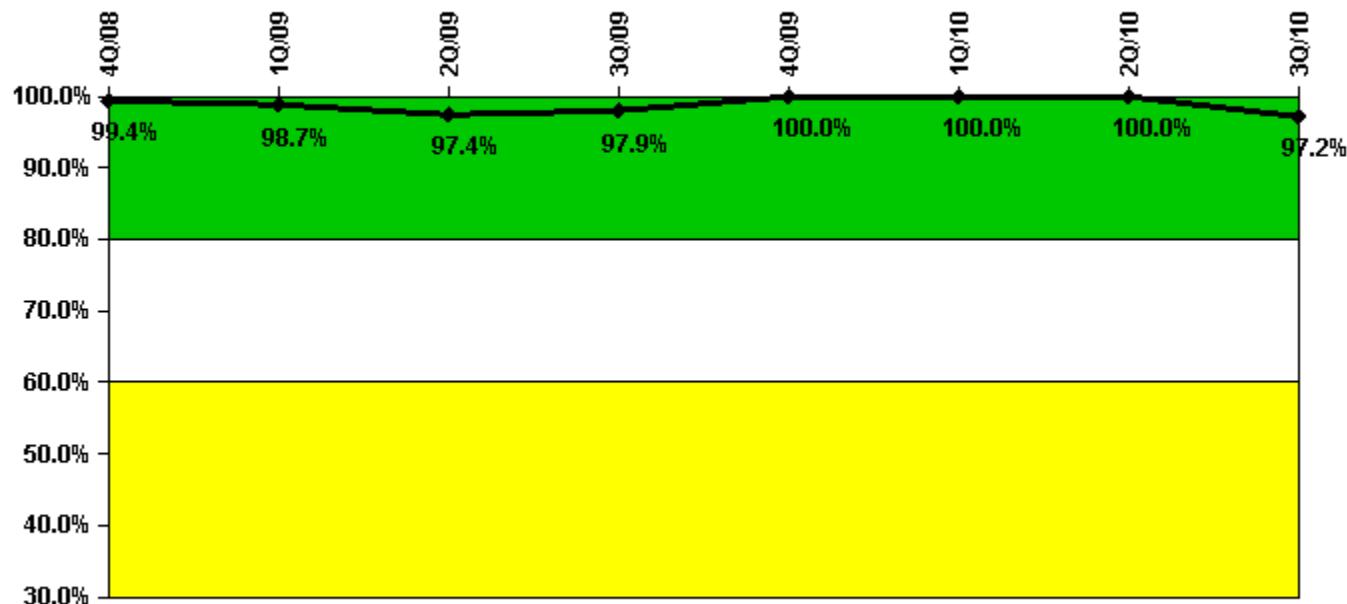
Thresholds: White > 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful opportunities	96.0	47.0	5.0	82.0	16.0	12.0	26.0	29.0
Total opportunities	101.0	47.0	5.0	85.0	16.0	12.0	28.0	29.0
Indicator value	97.8%	97.7%	97.2%	98.1%	98.0%	98.1%	97.7%	96.9%

Licensee Comments: none

ERO Drill Participation



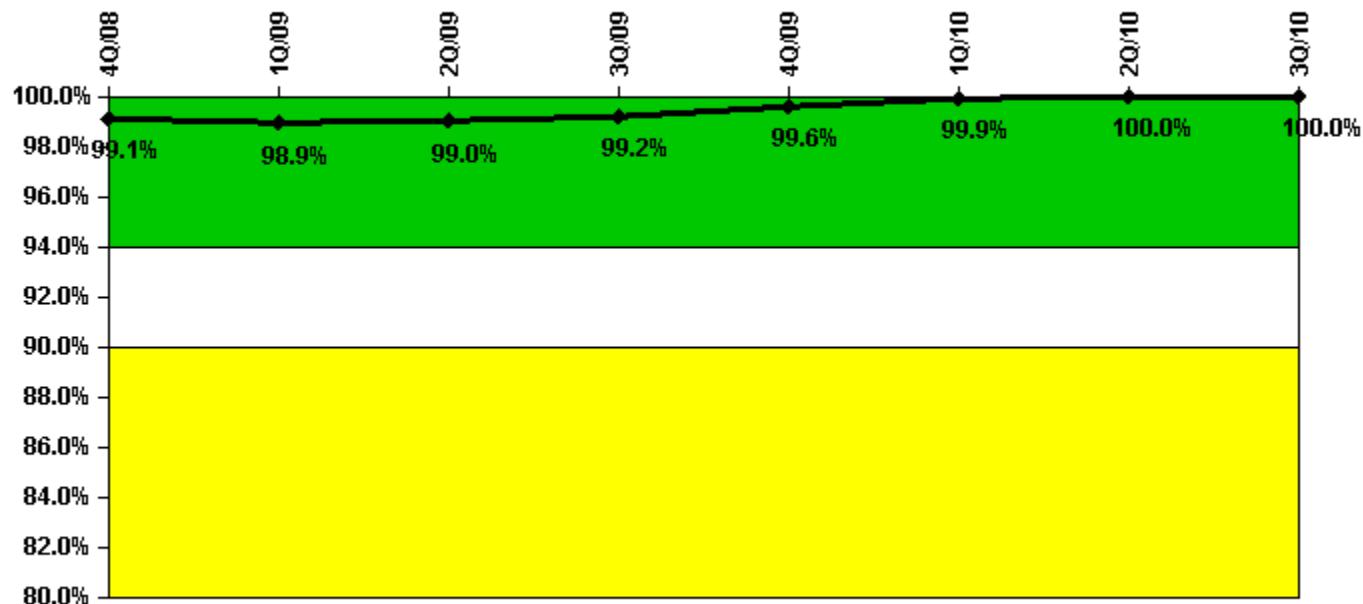
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Participating Key personnel	153.0	156.0	152.0	140.0	144.0	95.0	96.0	103.0
Total Key personnel	154.0	158.0	156.0	143.0	144.0	95.0	96.0	106.0
Indicator value	99.4%	98.7%	97.4%	97.9%	100.0%	100.0%	100.0%	97.2%

Licensee Comments: none

Alert & Notification System



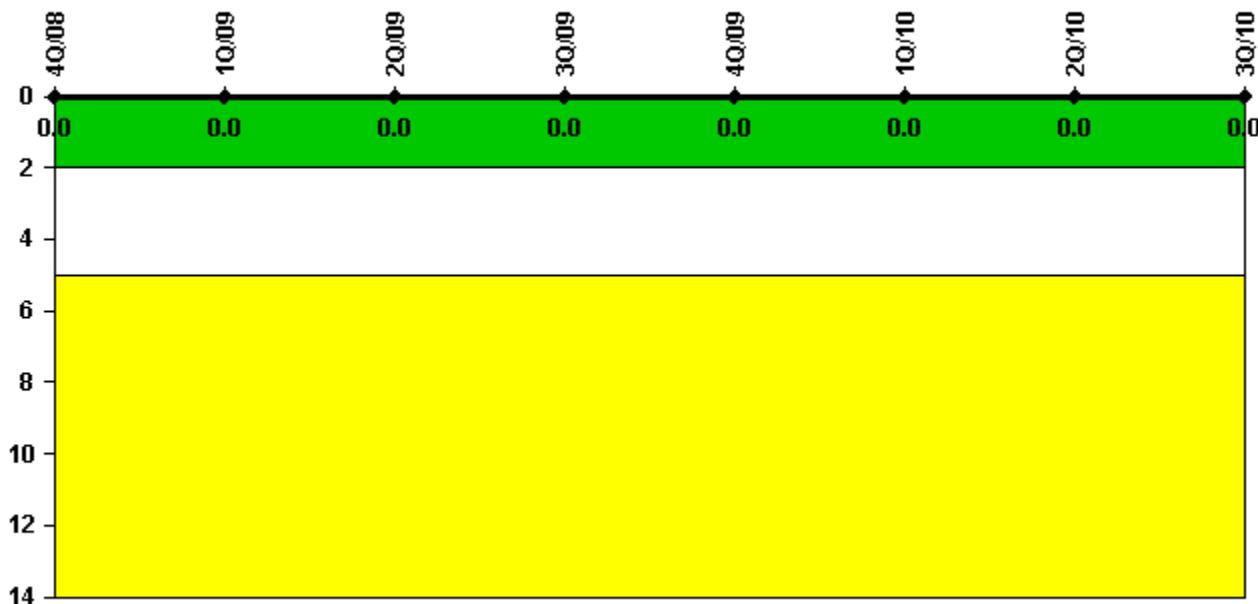
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful siren-tests	1171	1035	1117	1190	1115	1119	1119	1118
Total sirens-tests	1190	1050	1119	1190	1116	1119	1119	1119
Indicator value	99.1%	98.9%	99.0%	99.2%	99.6%	99.9%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



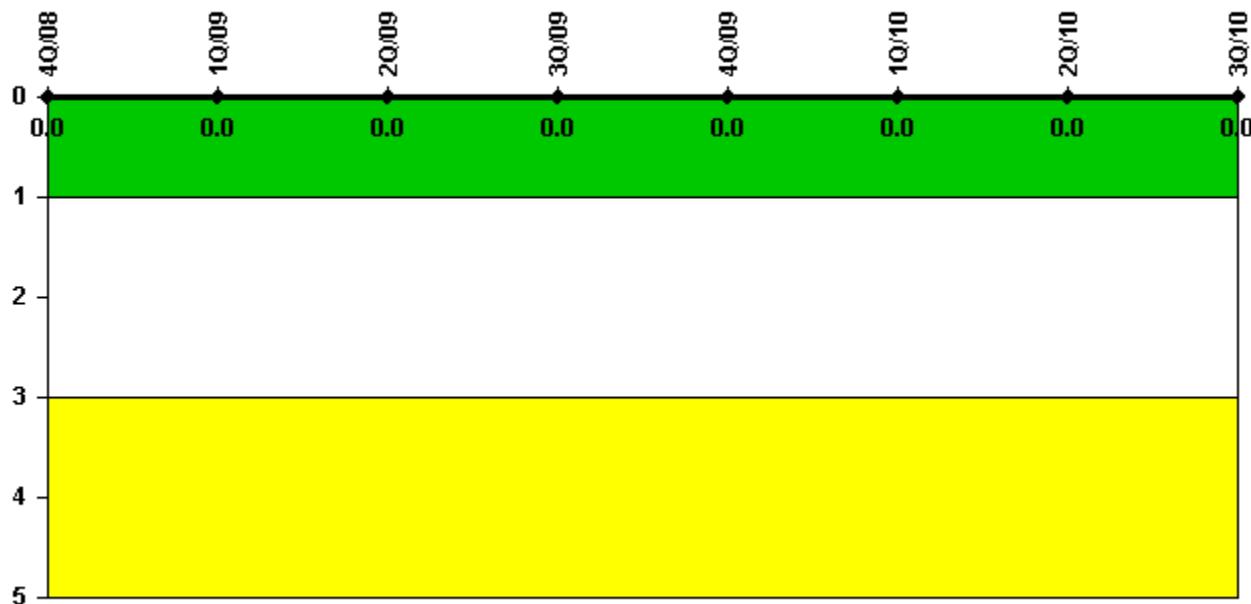
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Security information not publicly available.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

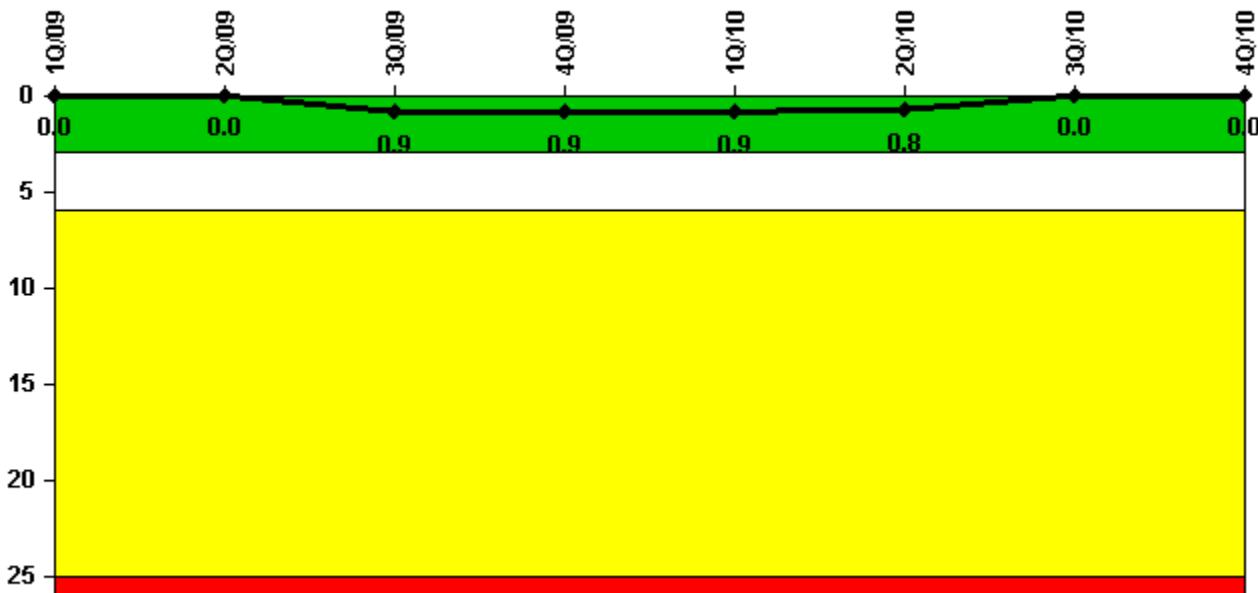
Last Modified: October 25, 2010

D.C. Cook 2

4Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



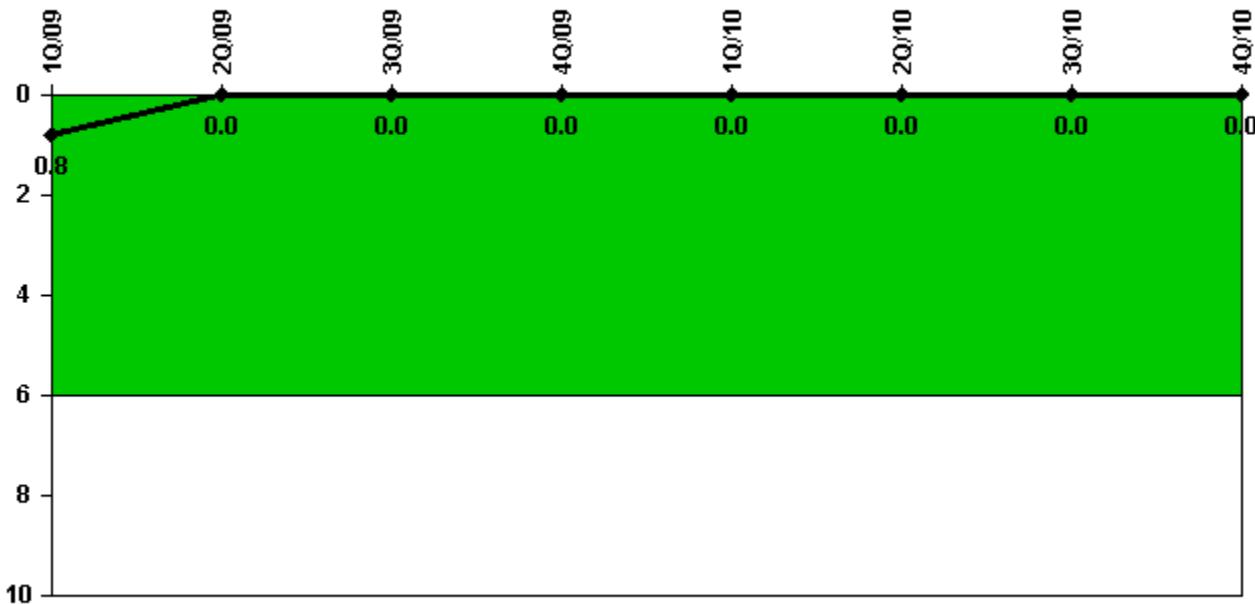
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	1991.0	1489.3	1908.0	2209.0	2159.0	2184.0	2208.0	767.4
Indicator value	0	0	0.9	0.9	0.9	0.8	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



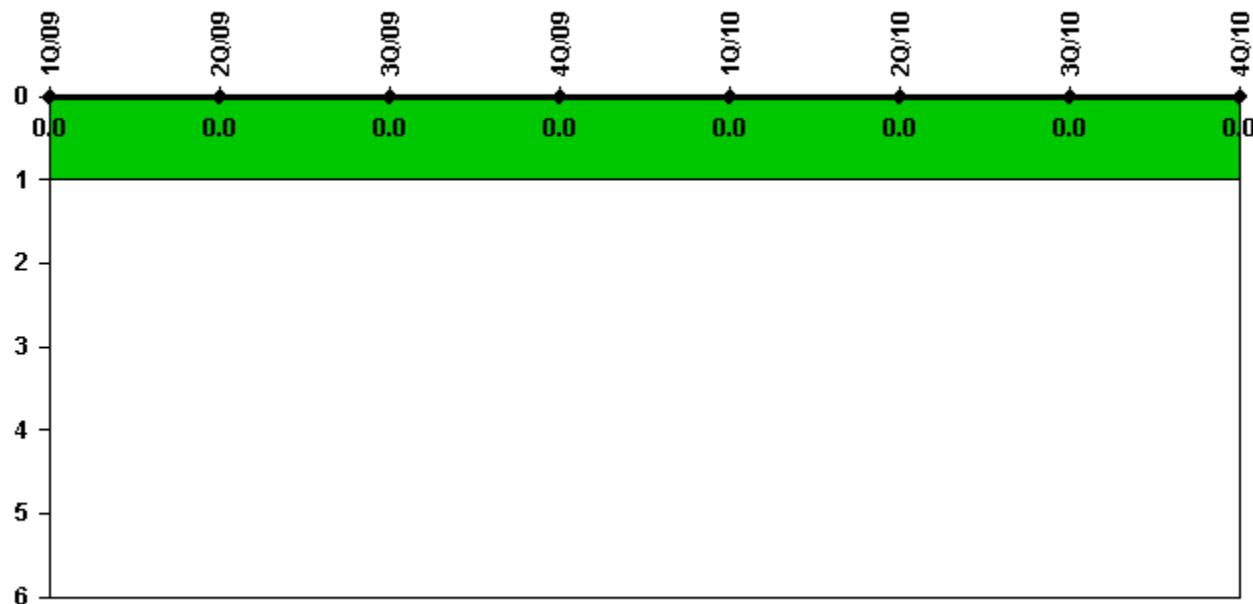
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1991.0	1489.3	1908.0	2209.0	2159.0	2184.0	2208.0	767.4
Indicator value	0.8	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



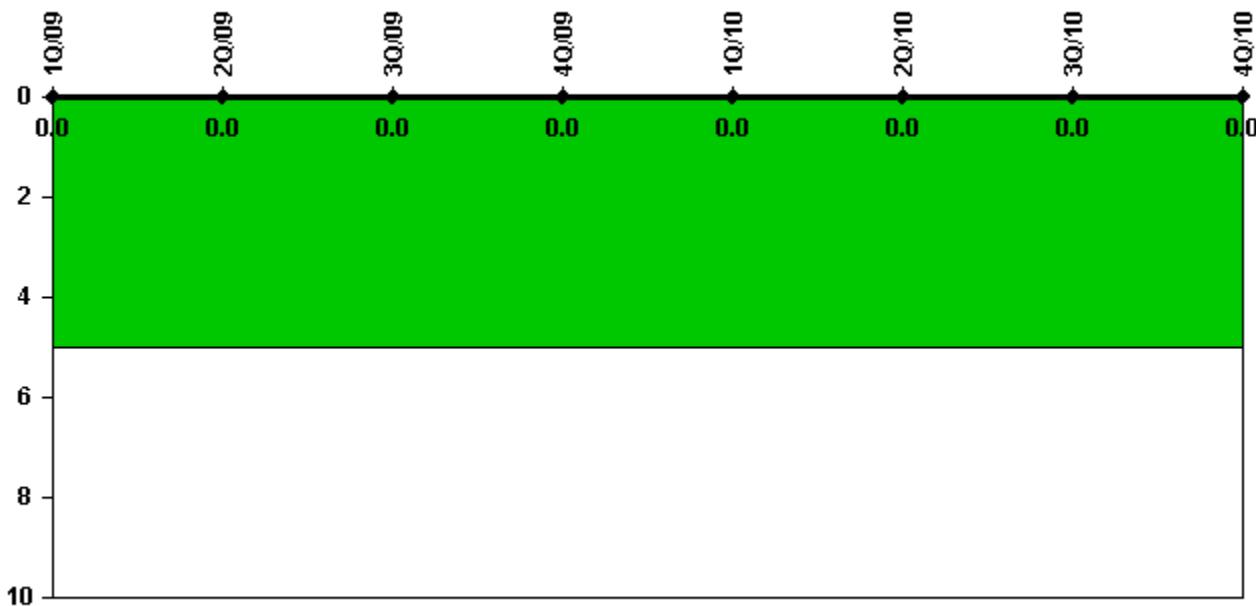
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



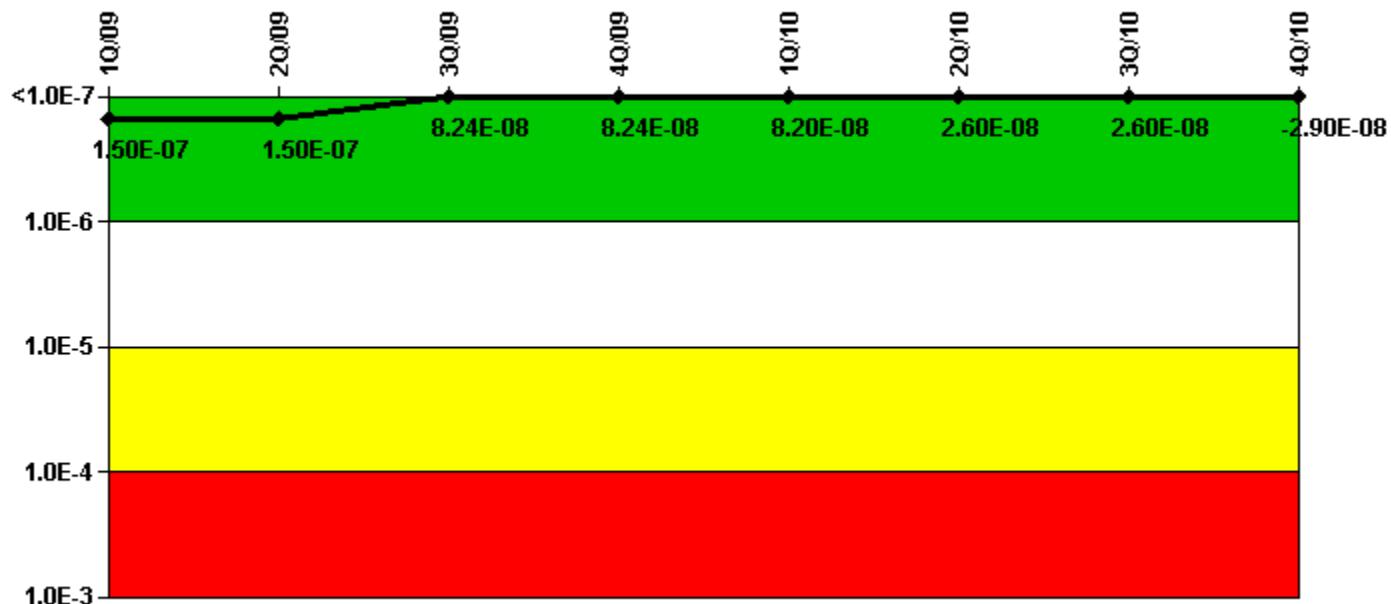
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



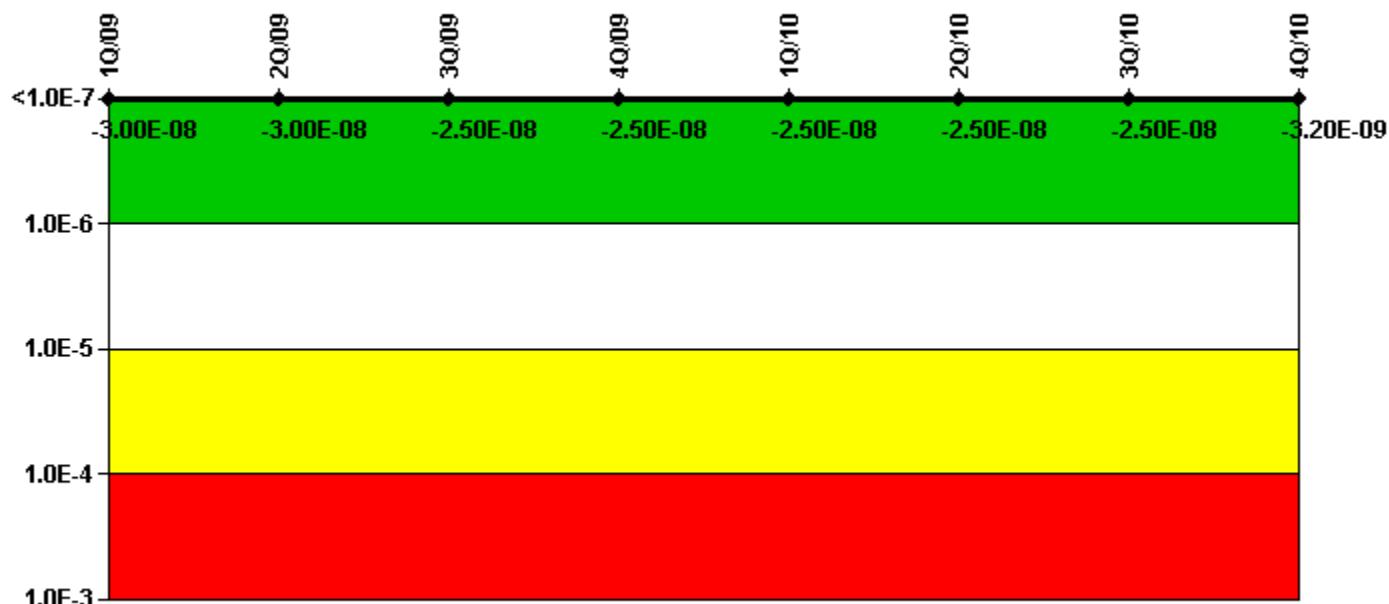
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	1.80E-10	4.20E-10	3.80E-10	3.70E-10	3.49E-10	2.06E-10	5.69E-10	5.80E-10
URI (Δ CDF)	1.50E-07	1.50E-07	8.20E-08	8.20E-08	8.16E-08	2.58E-08	2.58E-08	-2.99E-08
PLE	NO							
Indicator value	1.50E-07	1.50E-07	8.24E-08	8.24E-08	8.20E-08	2.60E-08	2.60E-08	-2.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



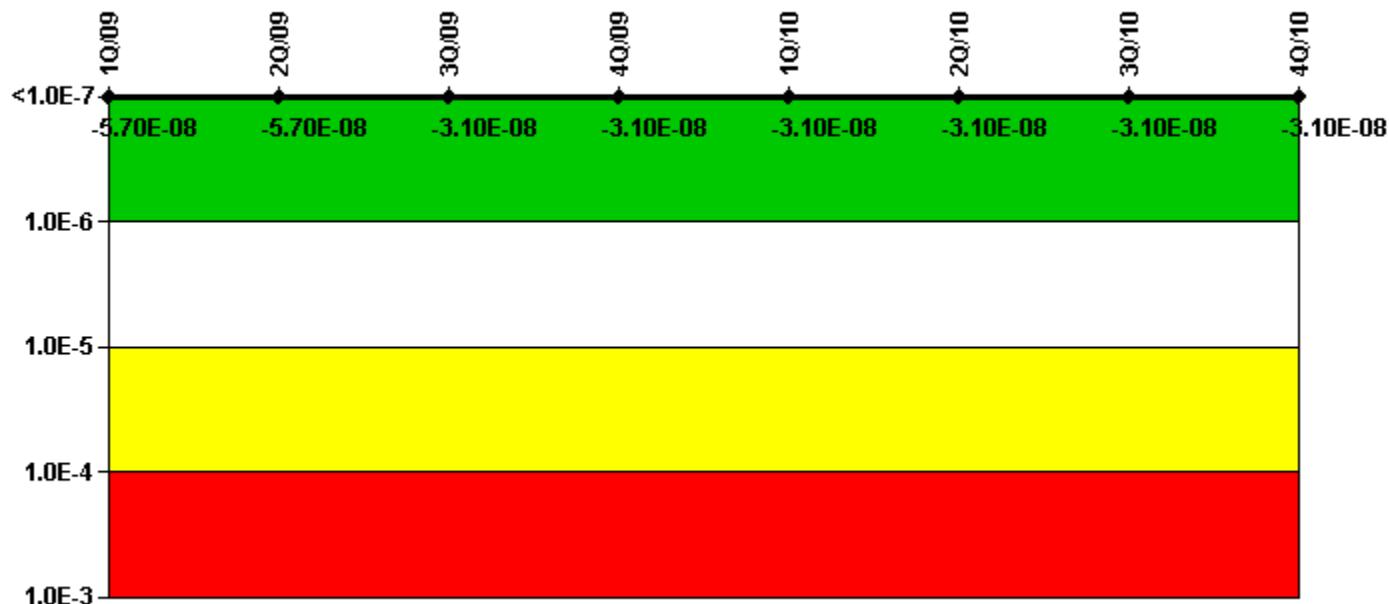
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	-4.40E-11	-4.40E-11	-2.70E-11	-2.70E-11	-2.66E-11	-2.66E-11	-2.66E-11	-2.66E-11
URI (Δ CDF)	-3.00E-08	-3.00E-08	-2.50E-08	-2.50E-08	-2.49E-08	-2.49E-08	-2.49E-08	-3.19E-09
PLE	NO							
Indicator value	-3.00E-08	-3.00E-08	-2.50E-08	-2.50E-08	-2.50E-08	-2.50E-08	-2.50E-08	-3.20E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



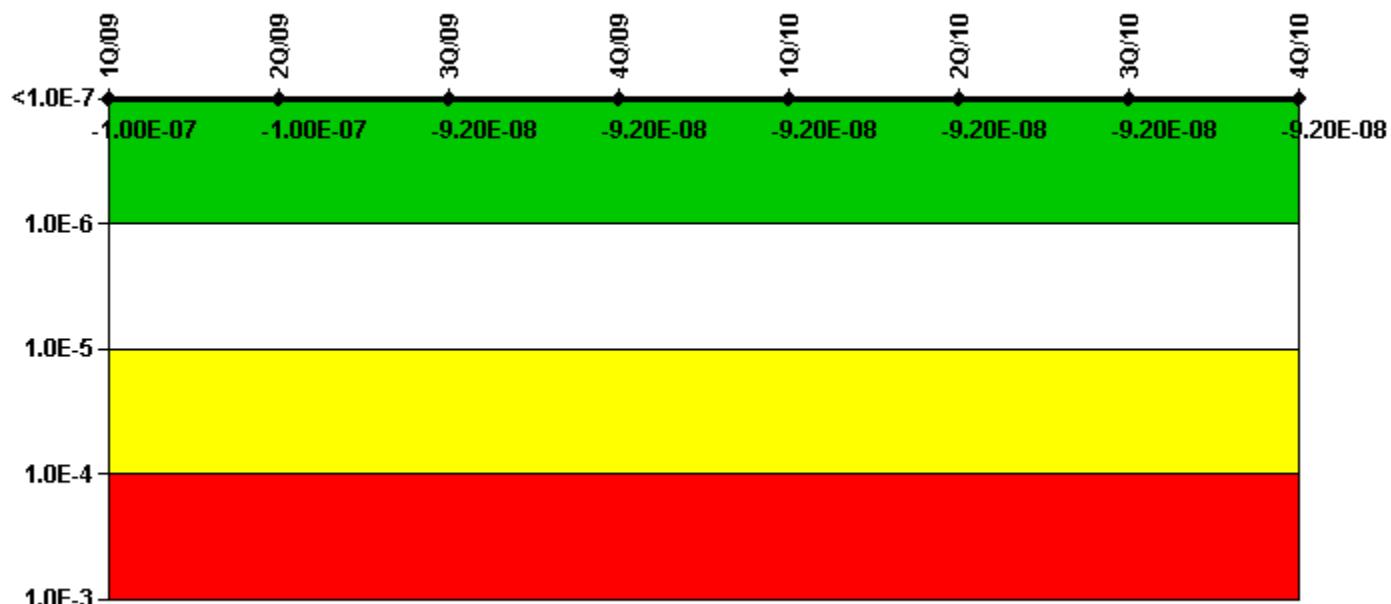
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	-4.00E-11	-4.00E-11	-2.90E-11	-2.90E-11	-2.85E-11	-2.85E-11	-2.85E-11	-2.85E-11
URI (Δ CDF)	-5.70E-08	-5.70E-08	-3.10E-08	-3.10E-08	-3.05E-08	-3.05E-08	-3.05E-08	-3.12E-08
PLE	NO							
Indicator value	-5.70E-08	-5.70E-08	-3.10E-08	-3.10E-08	-3.10E-08	-3.10E-08	-3.10E-08	-3.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



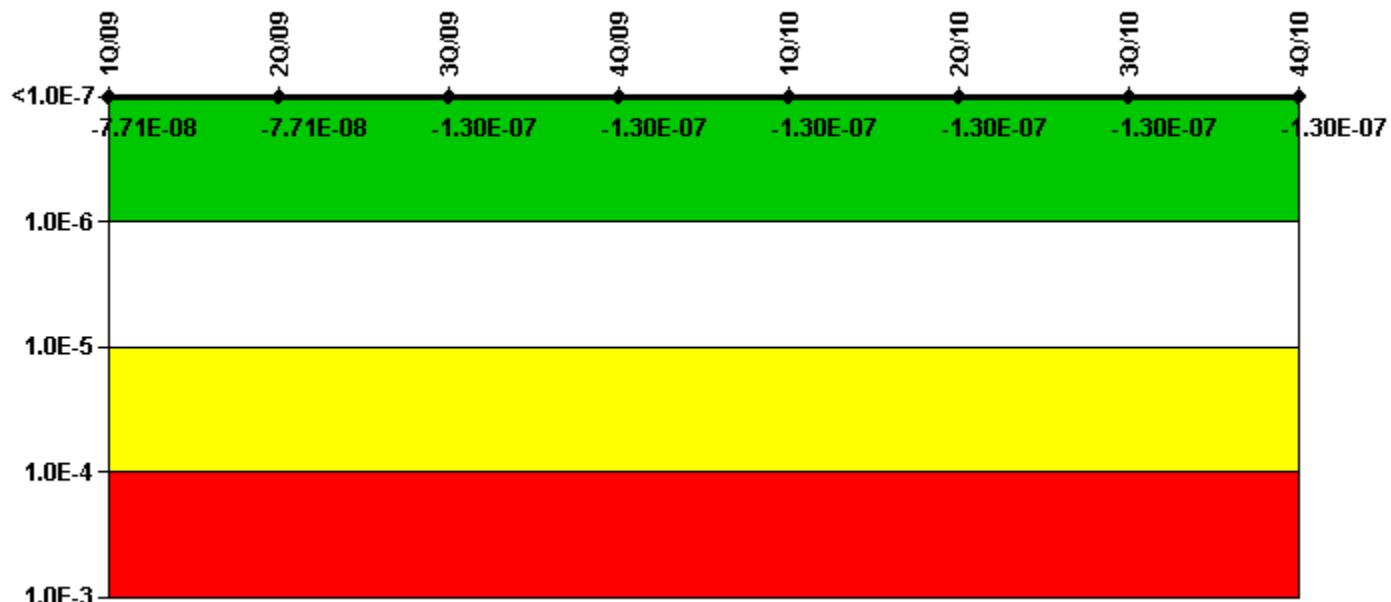
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	-2.50E-13	-2.50E-13	-3.20E-13	-3.20E-13	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13
URI (Δ CDF)	-1.00E-07	-1.00E-07	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08
PLE	NO							
Indicator value	-1.00E-07	-1.00E-07	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



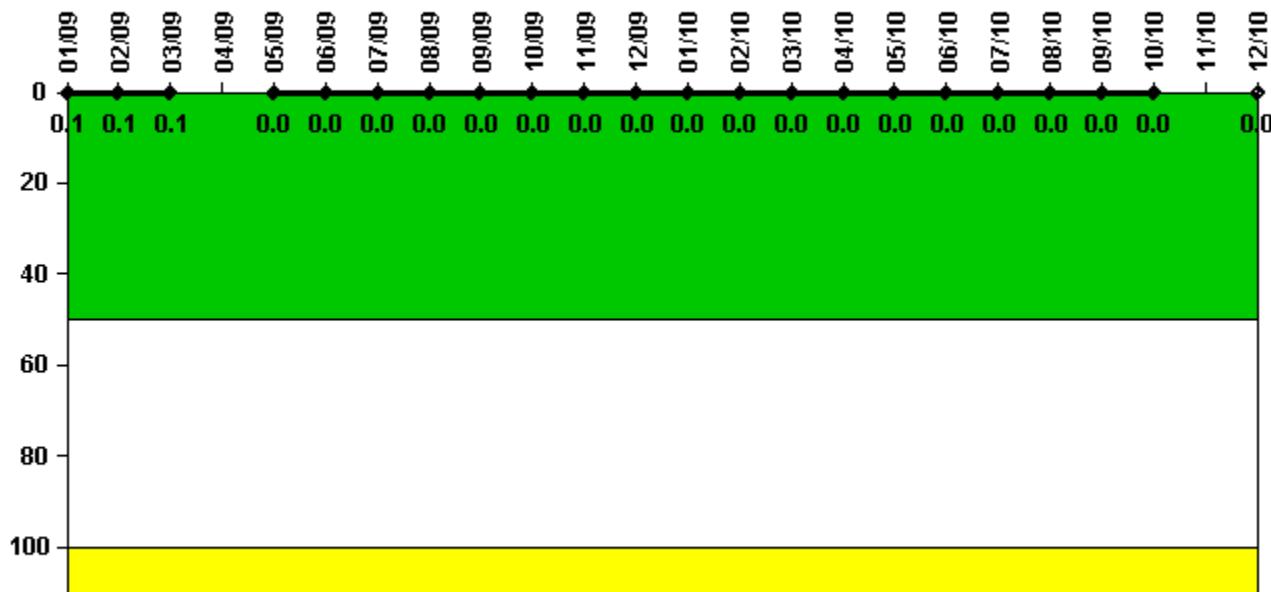
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	-5.30E-11	-5.40E-11	-3.30E-11	-3.50E-11	-2.20E-12	-6.80E-12	-3.53E-11	-3.31E-11
URI (Δ CDF)	-7.70E-08	-7.70E-08	-1.30E-07	-1.30E-07	-1.27E-07	-1.27E-07	-1.27E-07	-1.27E-07
PLE	NO							
Indicator value	-7.71E-08	-7.71E-08	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

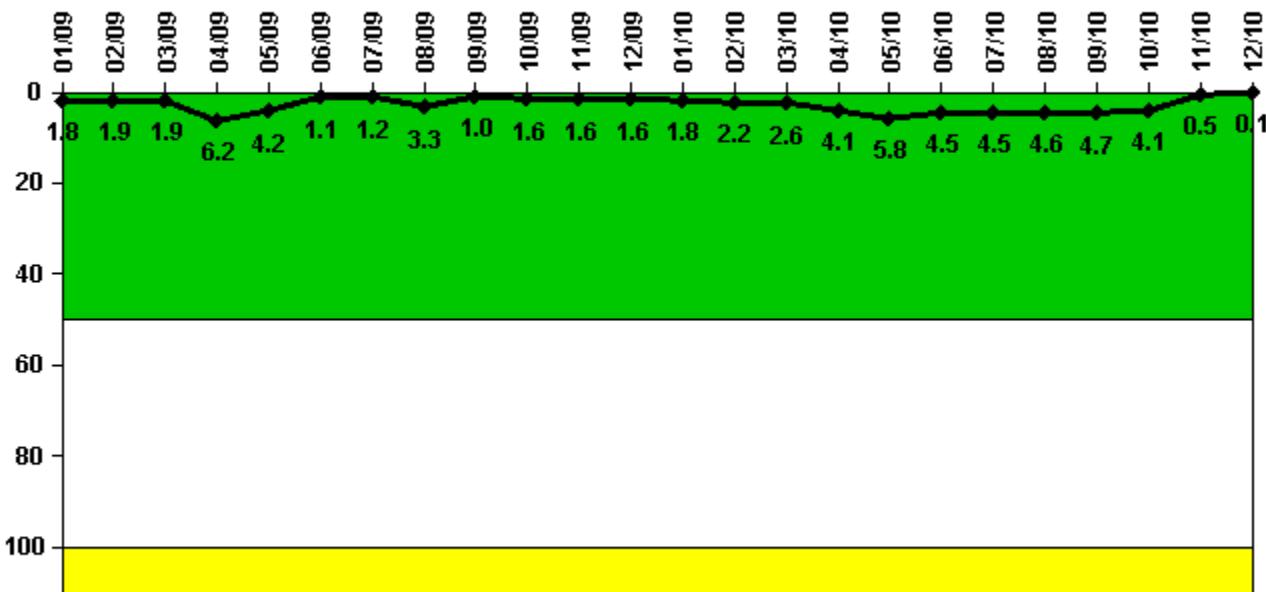
Notes

Reactor Coolant System Activity	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum activity	0.000188	0.000185	0.000249	N/A	0.000135	0.000124	0.000127	0.000123	0.000130	0.000139	0.000143	0.000148
Technical specification limit	0.2	0.2	0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	N/A	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum activity	0.000151	0.000164	0.000162	0.000163	0.000180	0.000171	0.000178	0.000178	0.000205	0.000350	N/A	0.000168
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	N/A	0

Licensee Comments:

12/10: Unit 2 remained shut down through November for a refueling outage. No RCS activity data is available for that month.

Reactor Coolant System Leakage



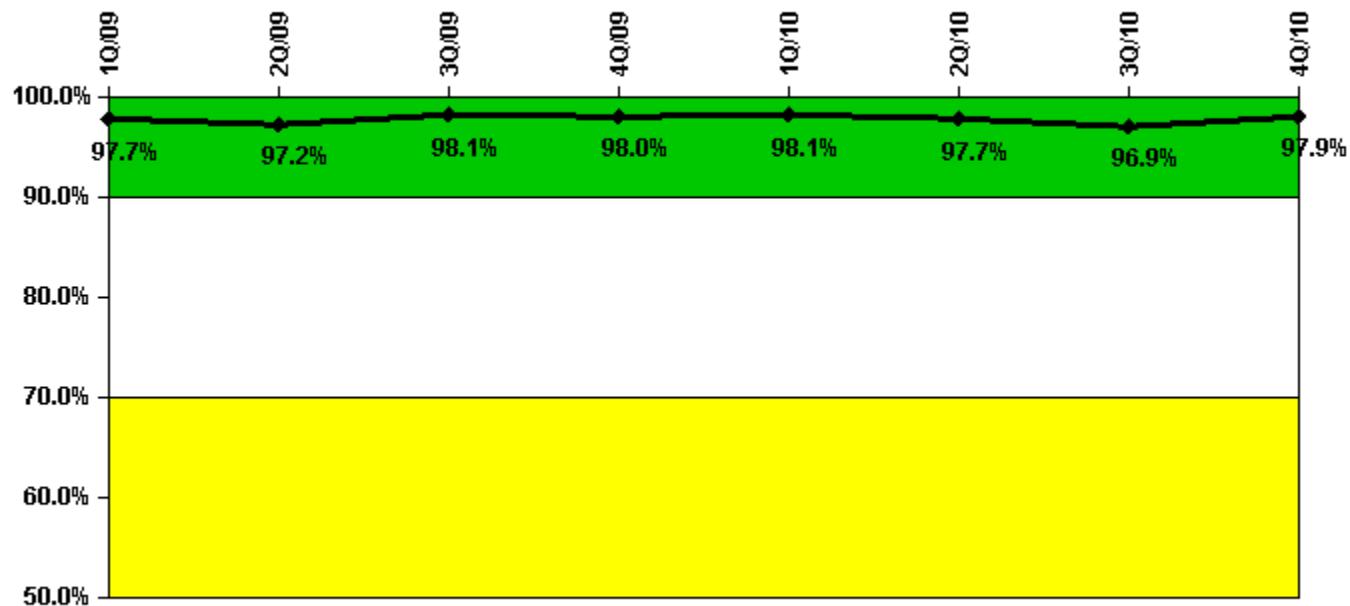
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum leakage	0.200	0.211	0.207	0.677	0.465	0.118	0.127	0.362	0.108	0.171	0.176	0.181
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	1.8	1.9	1.9	6.2	4.2	1.1	1.2	3.3	1.0	1.6	1.6	1.6
Reactor Coolant System Leakage	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum leakage	0.201	0.243	0.291	0.447	0.636	0.500	0.497	0.502	0.515	0.448	0.050	0.016
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	1.8	2.2	2.6	4.1	5.8	4.5	4.5	4.6	4.7	4.1	0.5	0.1

Licensee Comments: none

Drill/Exercise Performance



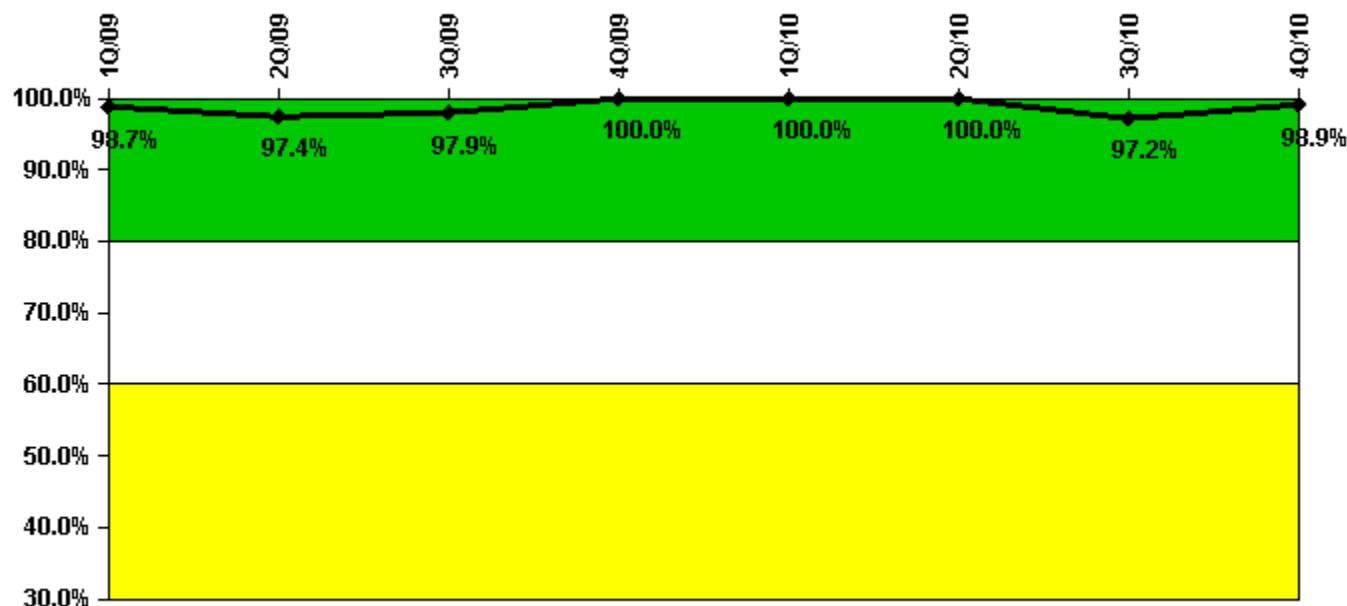
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful opportunities	47.0	5.0	82.0	16.0	12.0	26.0	29.0	19.0
Total opportunities	47.0	5.0	85.0	16.0	12.0	28.0	29.0	19.0
Indicator value	97.7%	97.2%	98.1%	98.0%	98.1%	97.7%	96.9%	97.9%

Licensee Comments: none

ERO Drill Participation



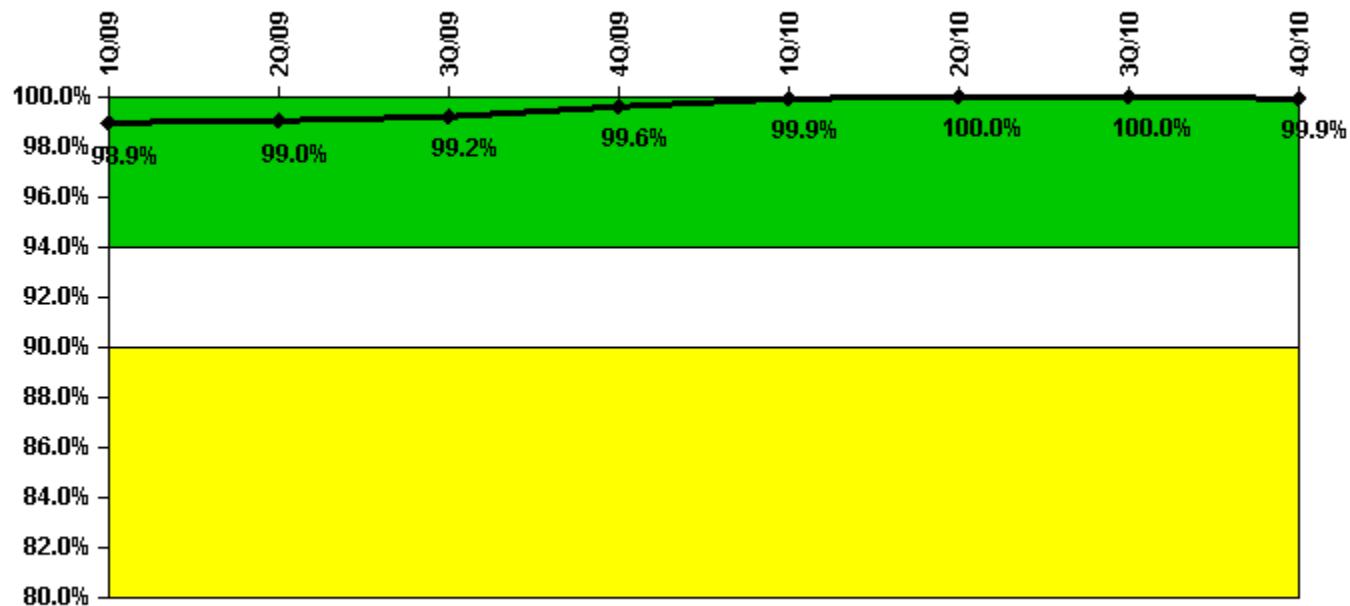
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Participating Key personnel	156.0	152.0	140.0	144.0	95.0	96.0	103.0	94.0
Total Key personnel	158.0	156.0	143.0	144.0	95.0	96.0	106.0	95.0
Indicator value	98.7%	97.4%	97.9%	100.0%	100.0%	100.0%	97.2%	98.9%

Licensee Comments: none

Alert & Notification System



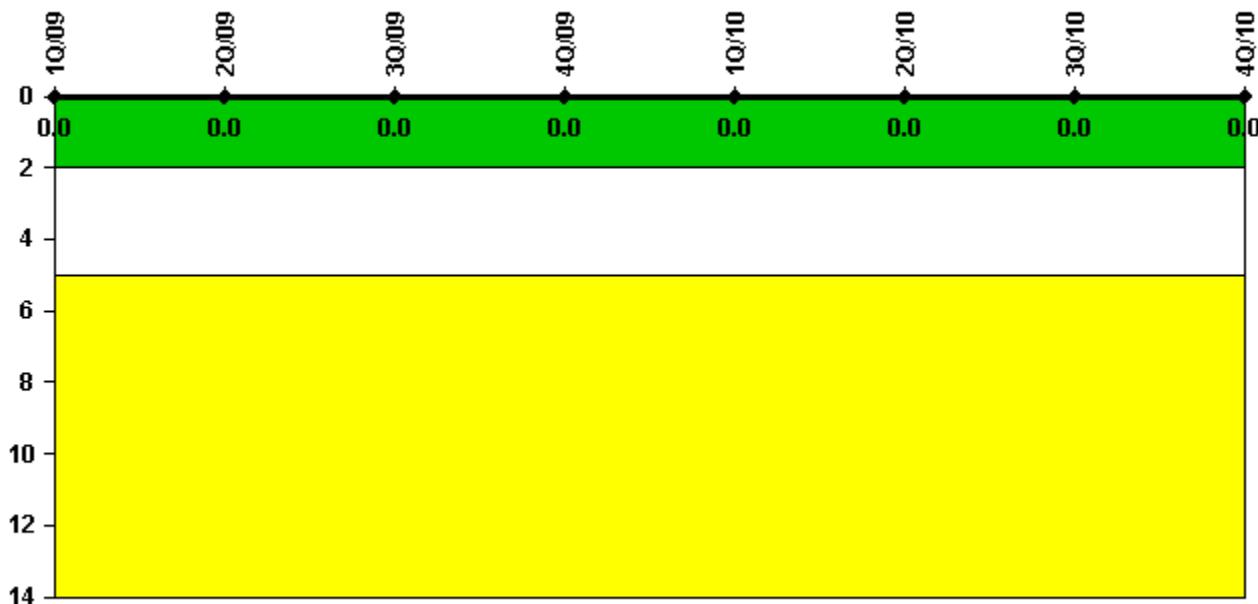
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful siren-tests	1035	1117	1190	1115	1119	1119	1118	1118
Total sirens-tests	1050	1119	1190	1116	1119	1119	1119	1120
Indicator value	98.9%	99.0%	99.2%	99.6%	99.9%	100.0%	100.0%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



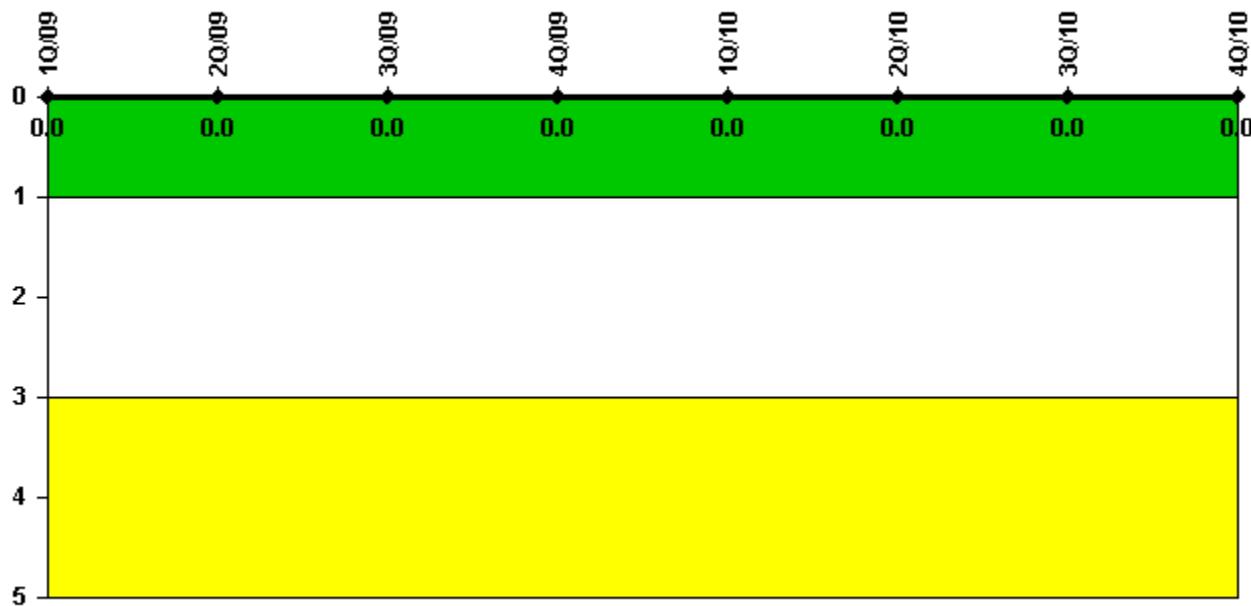
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

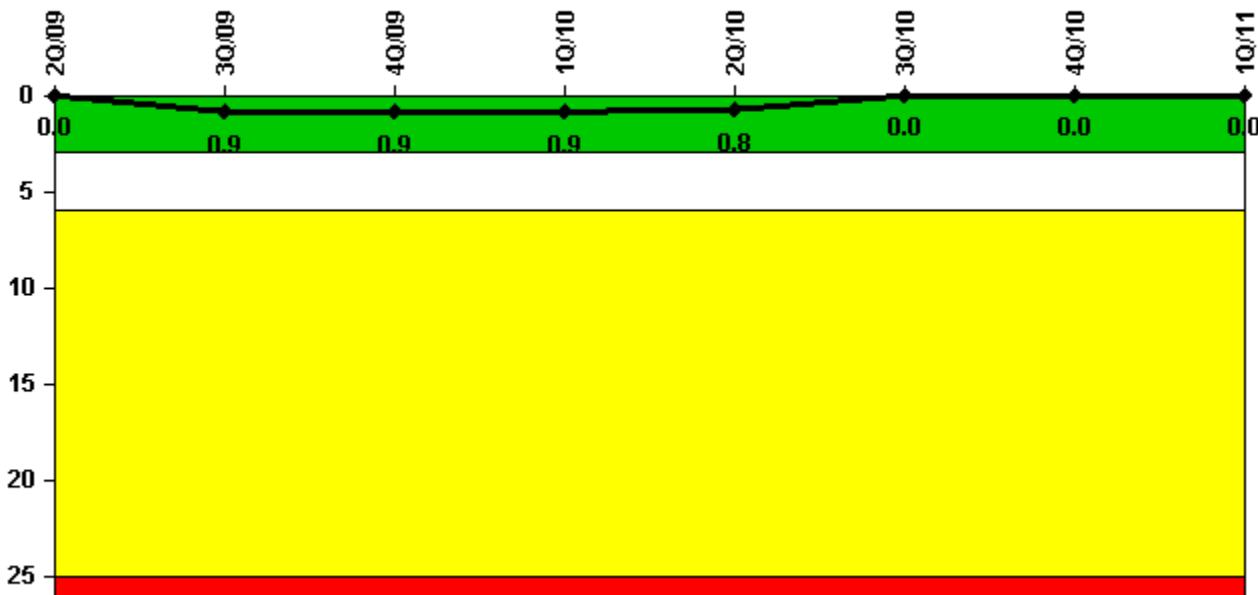
[Security](#) information not publicly available.

D.C. Cook 2

1Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



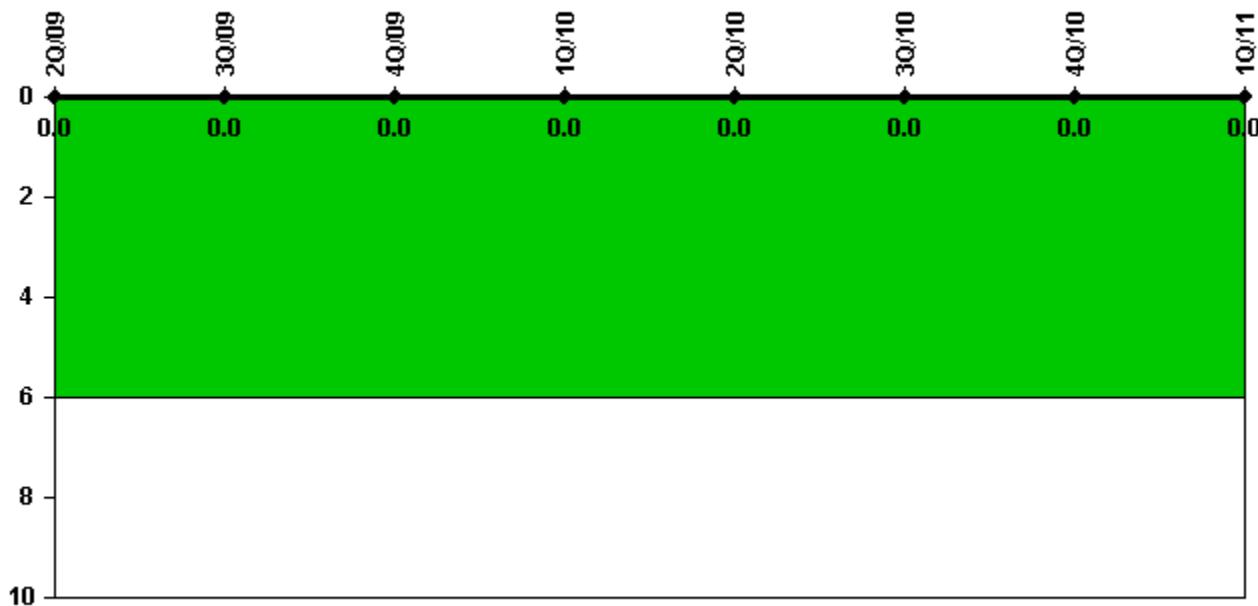
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	1489.3	1908.0	2209.0	2159.0	2184.0	2208.0	767.4	2159.0
Indicator value	0	0.9	0.9	0.9	0.8	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



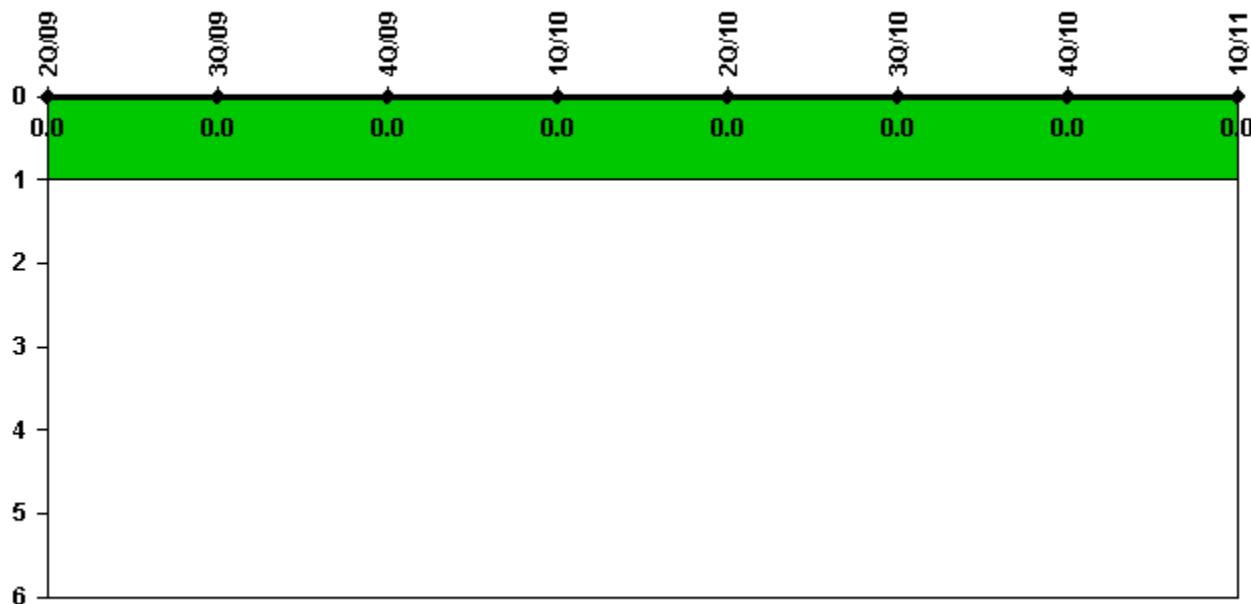
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1489.3	1908.0	2209.0	2159.0	2184.0	2208.0	767.4	2159.0
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



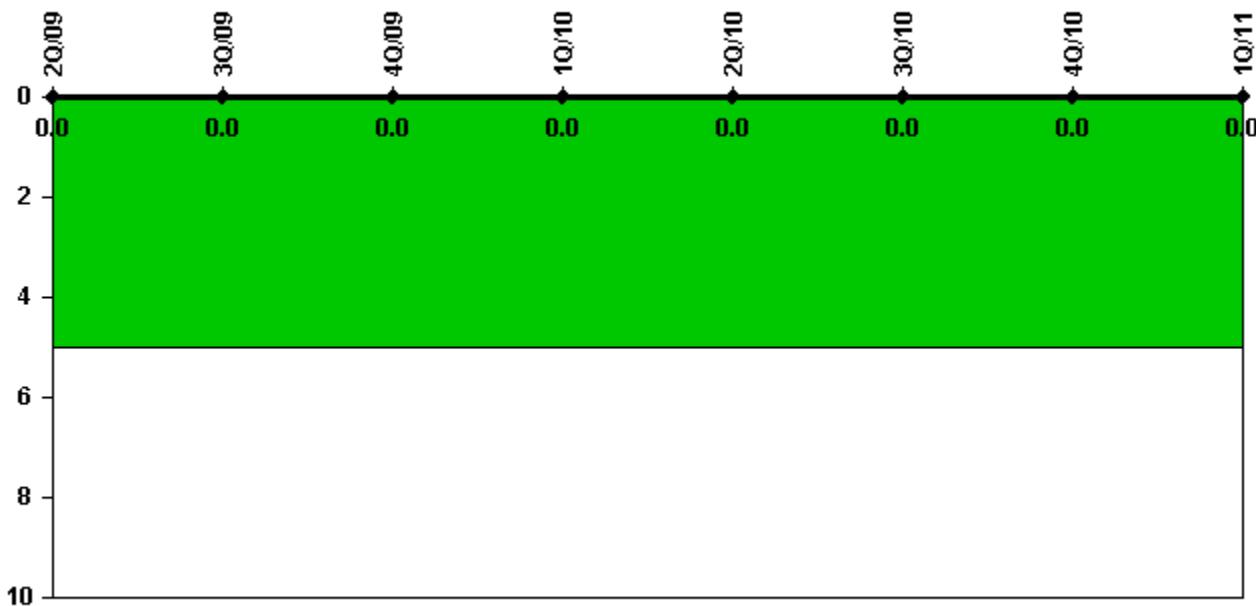
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



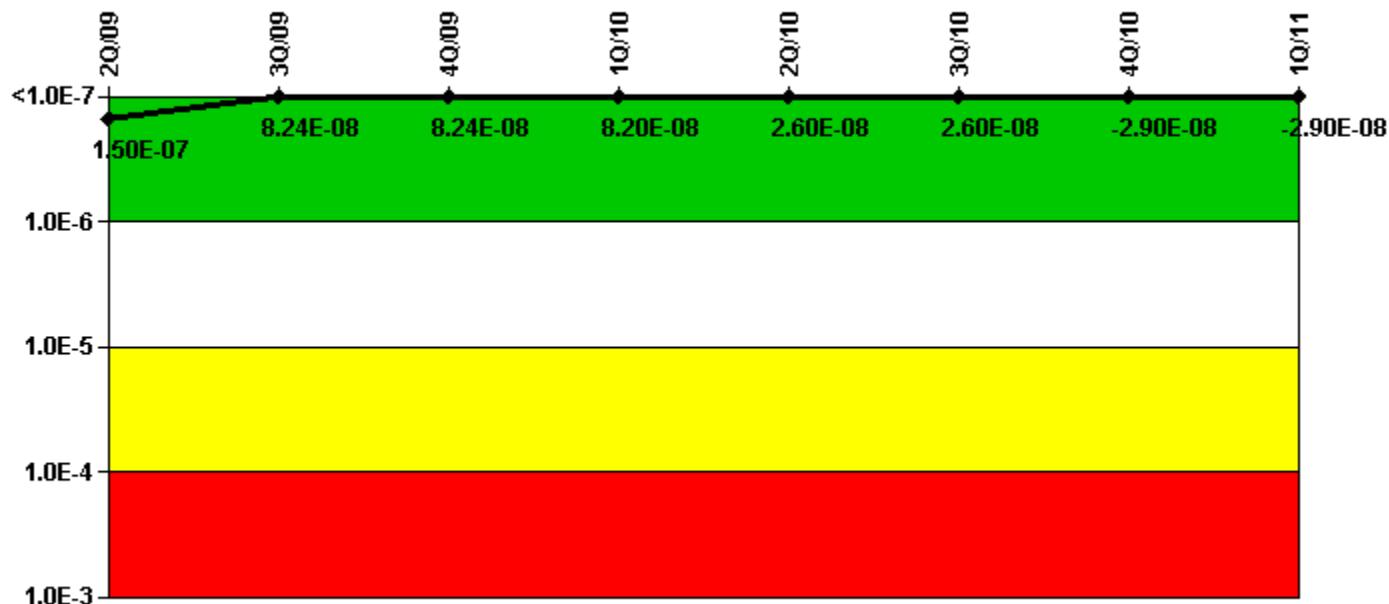
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



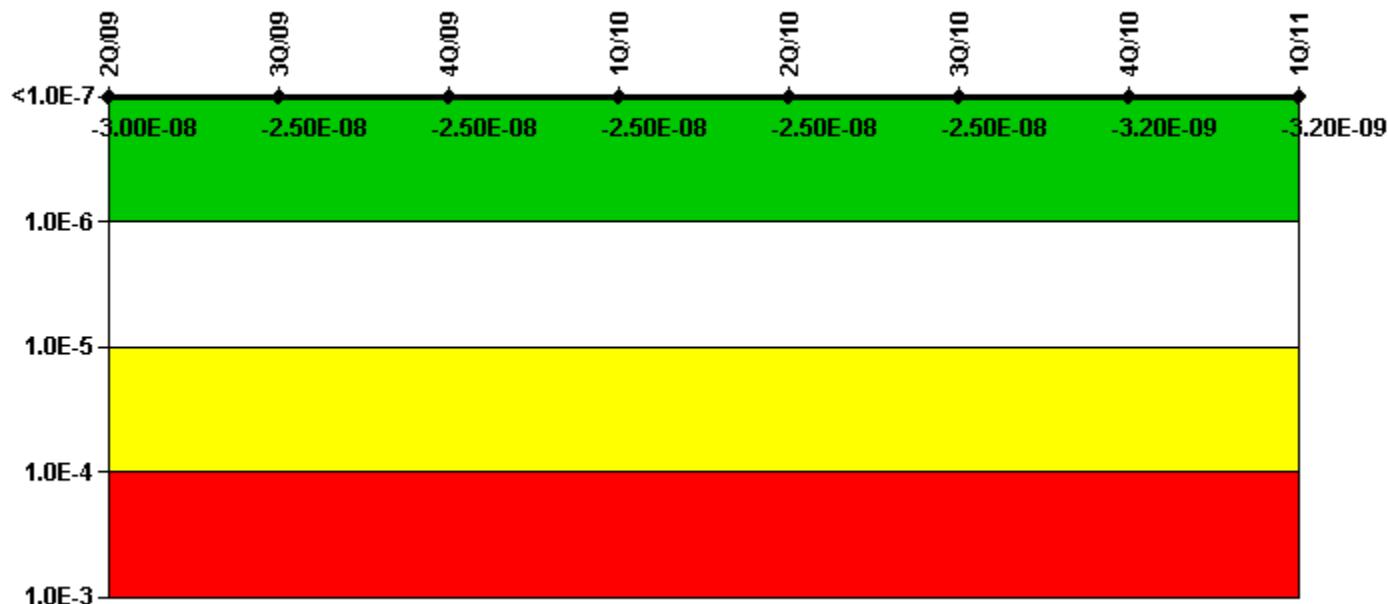
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	4.20E-10	3.80E-10	3.70E-10	3.49E-10	2.06E-10	5.69E-10	5.80E-10	6.00E-10
URI (Δ CDF)	1.50E-07	8.20E-08	8.20E-08	8.16E-08	2.58E-08	2.58E-08	-2.99E-08	-2.99E-08
PLE	NO	NO						
Indicator value	1.50E-07	8.24E-08	8.24E-08	8.20E-08	2.60E-08	2.60E-08	-2.90E-08	-2.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



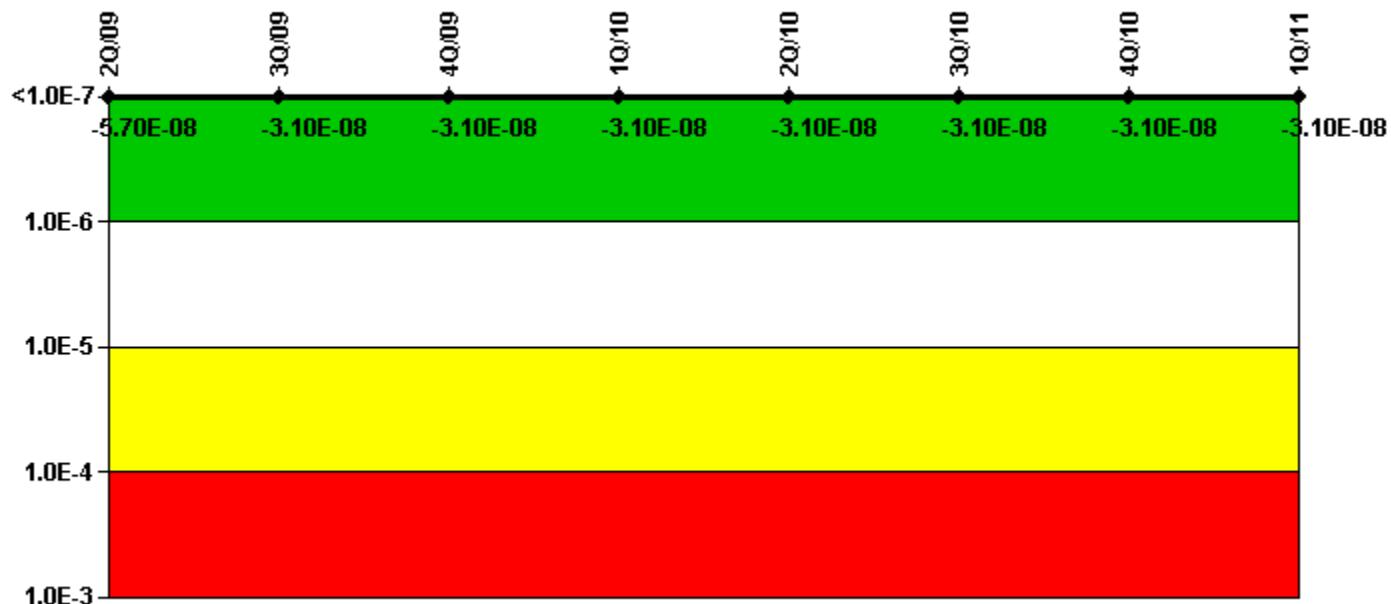
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	-4.40E-11	-2.70E-11	-2.70E-11	-2.66E-11	-2.66E-11	-2.66E-11	-2.66E-11	-2.66E-11
URI (Δ CDF)	-3.00E-08	-2.50E-08	-2.50E-08	-2.49E-08	-2.49E-08	-2.49E-08	-3.19E-09	-3.19E-09
PLE	NO							
Indicator value	-3.00E-08	-2.50E-08	-2.50E-08	-2.50E-08	-2.50E-08	-2.50E-08	-3.20E-09	-3.20E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



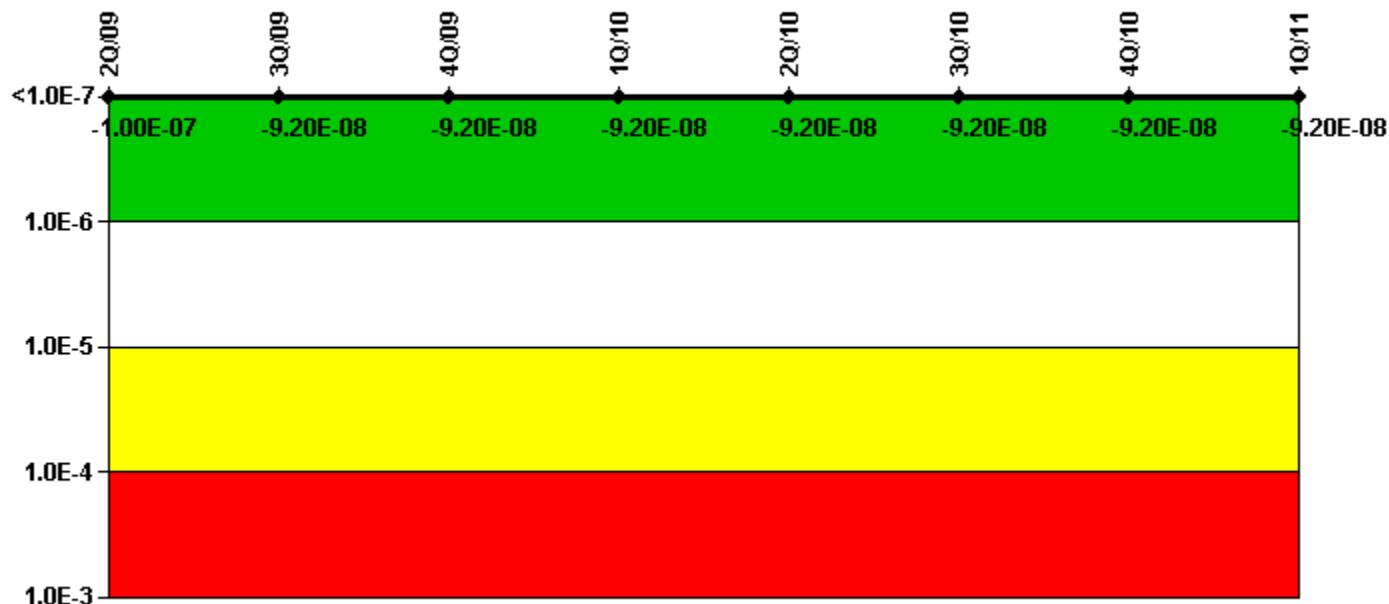
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	-4.00E-11	-2.90E-11	-2.90E-11	-2.85E-11	-2.85E-11	-2.85E-11	-2.85E-11	-2.85E-11
URI (Δ CDF)	-5.70E-08	-3.10E-08	-3.10E-08	-3.05E-08	-3.05E-08	-3.05E-08	-3.12E-08	-3.12E-08
PLE	NO							
Indicator value	-5.70E-08	-3.10E-08						

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



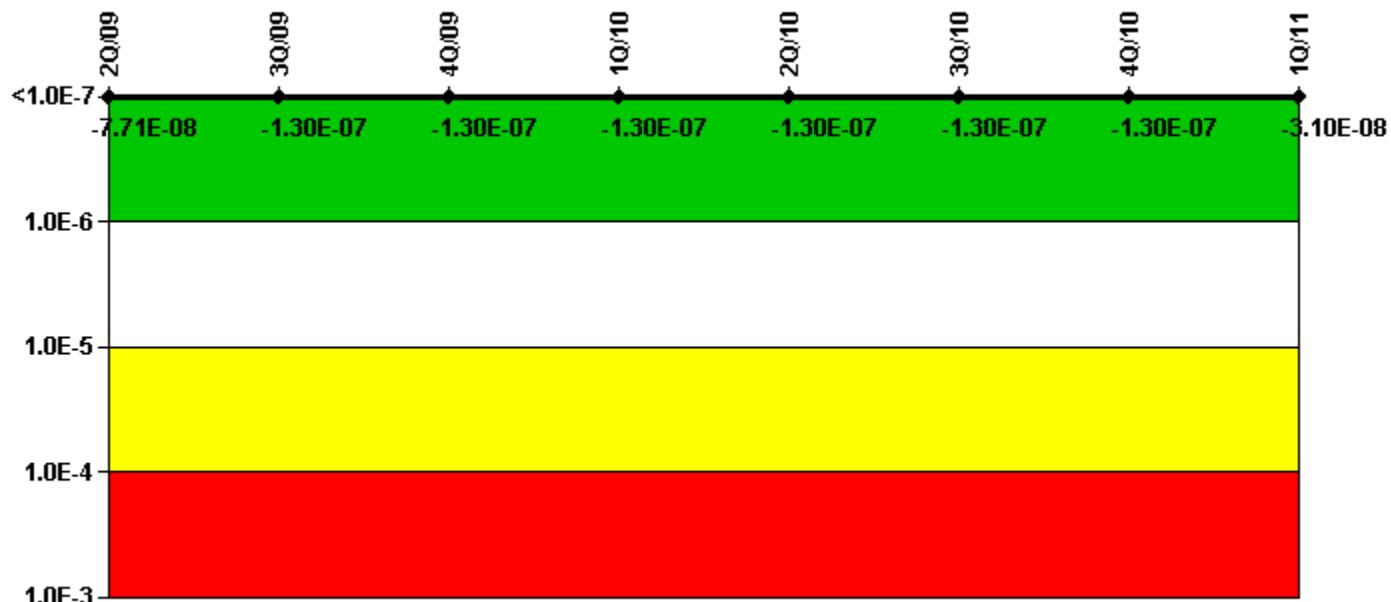
Thresholds: White > 1.00×10^{-6} Yellow > 1.00×10^{-5} Red > 1.00×10^{-4}

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	-2.50E-13	-3.20E-13	-3.20E-13	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13
URI (Δ CDF)	-1.00E-07	-9.20E-08						
PLE	NO							
Indicator value	-1.00E-07	-9.20E-08						

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



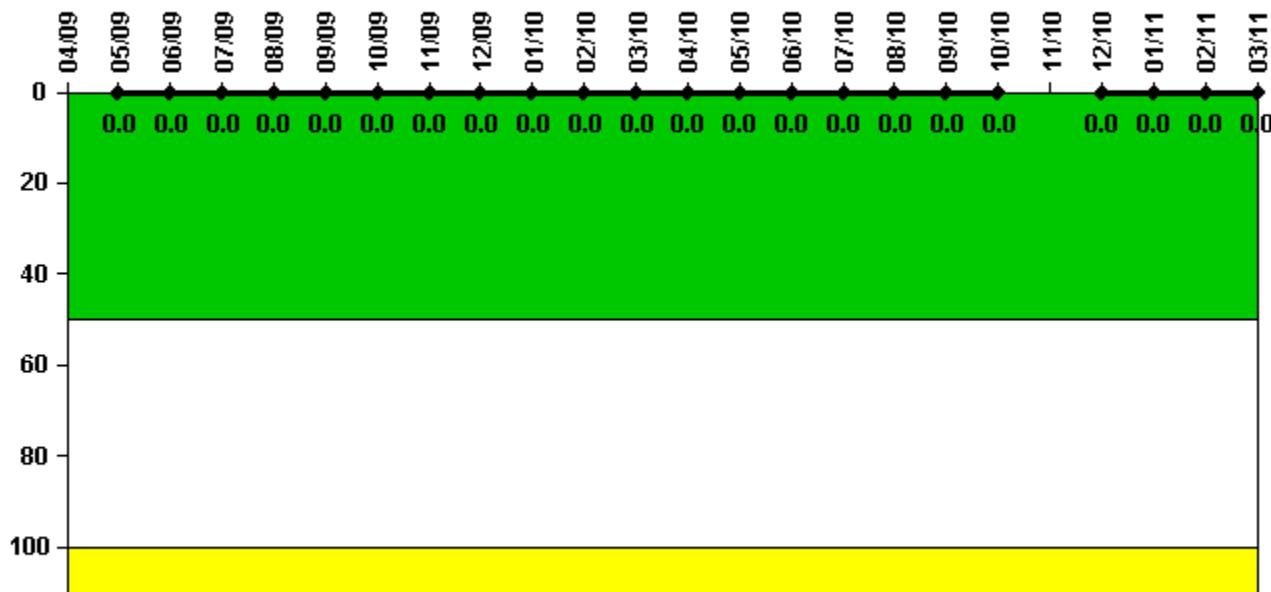
Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	-5.40E-11	-3.30E-11	-3.50E-11	-2.20E-12	-6.80E-12	-3.53E-11	-3.31E-11	8.50E-12
URI (Δ CDF)	-7.70E-08	-1.30E-07	-1.30E-07	-1.27E-07	-1.27E-07	-1.27E-07	-1.27E-07	-3.06E-08
PLE	NO							
Indicator value	-7.71E-08	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-3.10E-08

Licensee Comments: none

Reactor Coolant System Activity



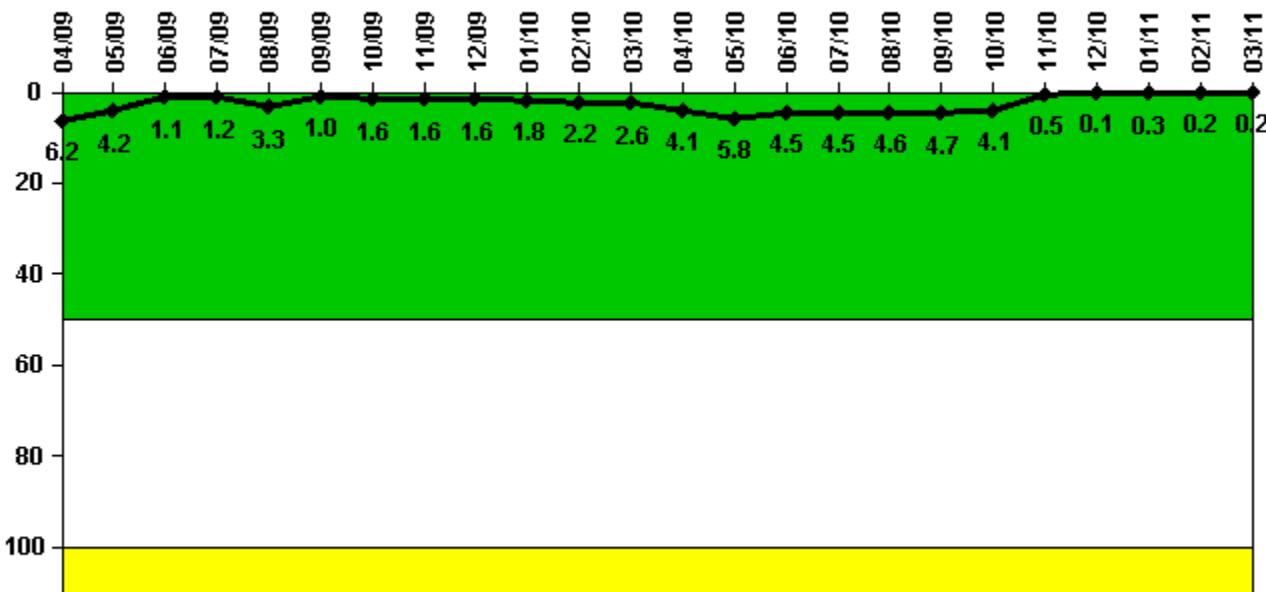
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum activity	N/A	0.000135	0.000124	0.000127	0.000123	0.000130	0.000139	0.000143	0.000148	0.000151	0.000164	0.000162
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum activity	0.000163	0.000180	0.000171	0.000178	0.000178	0.000205	0.000350	N/A	0.000168	0.000094	0.000098	0.000100
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	N/A	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



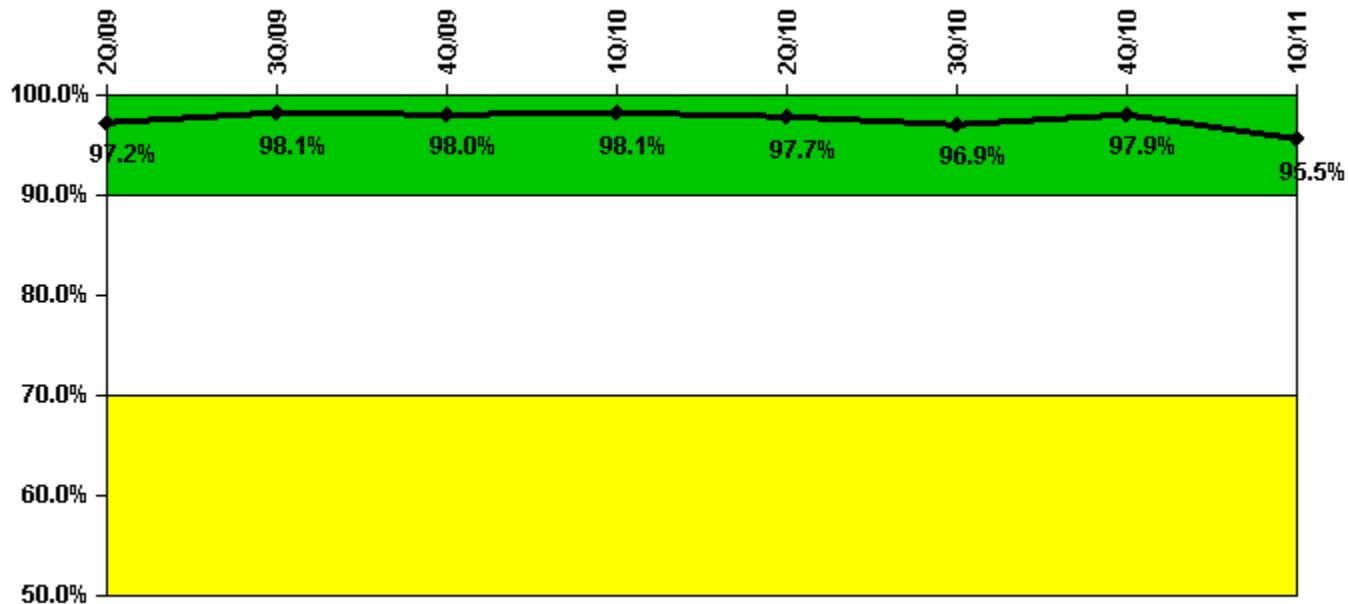
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum leakage	0.677	0.465	0.118	0.127	0.362	0.108	0.171	0.176	0.181	0.201	0.243	0.291
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	6.2	4.2	1.1	1.2	3.3	1.0	1.6	1.6	1.6	1.8	2.2	2.6
Reactor Coolant System Leakage	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum leakage	0.447	0.636	0.500	0.497	0.502	0.515	0.448	0.050	0.016	0.038	0.027	0.025
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	4.1	5.8	4.5	4.5	4.6	4.7	4.1	0.5	0.1	0.3	0.2	0.2

Licensee Comments: none

Drill/Exercise Performance



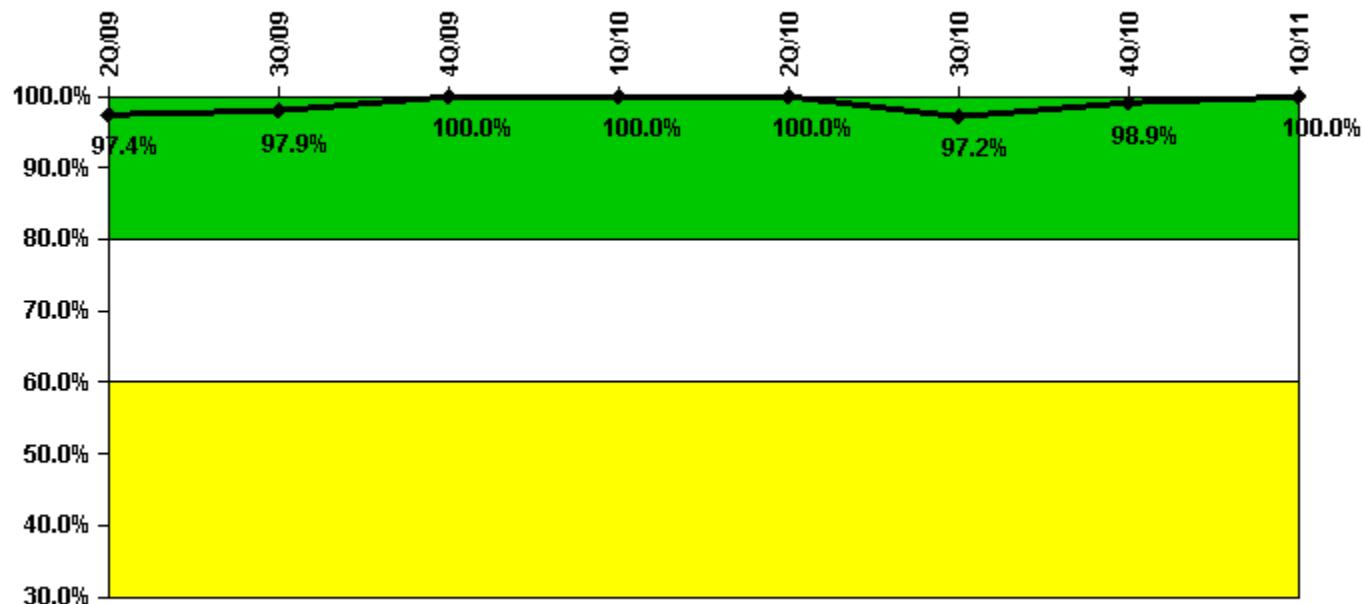
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful opportunities	5.0	82.0	16.0	12.0	26.0	29.0	19.0	44.0
Total opportunities	5.0	85.0	16.0	12.0	28.0	29.0	19.0	50.0
Indicator value	97.2%	98.1%	98.0%	98.1%	97.7%	96.9%	97.9%	95.5%

Licensee Comments: none

ERO Drill Participation



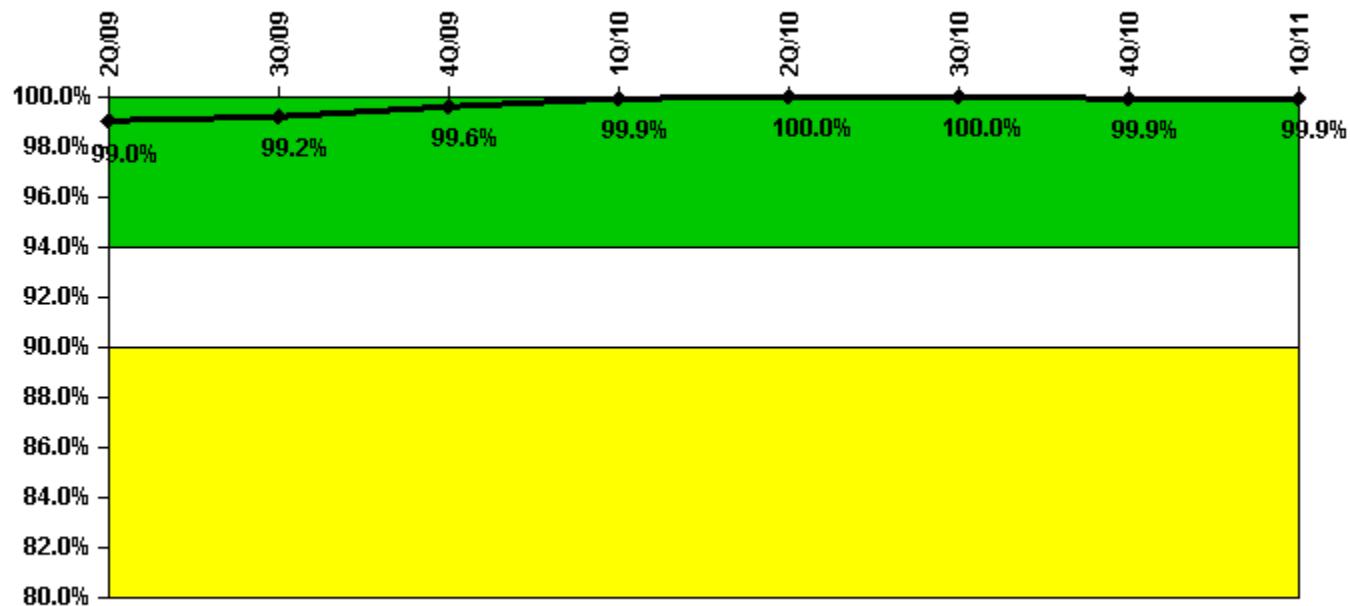
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Participating Key personnel	152.0	140.0	144.0	95.0	96.0	103.0	94.0	92.0
Total Key personnel	156.0	143.0	144.0	95.0	96.0	106.0	95.0	92.0
Indicator value	97.4%	97.9%	100.0%	100.0%	100.0%	97.2%	98.9%	100.0%

Licensee Comments: none

Alert & Notification System



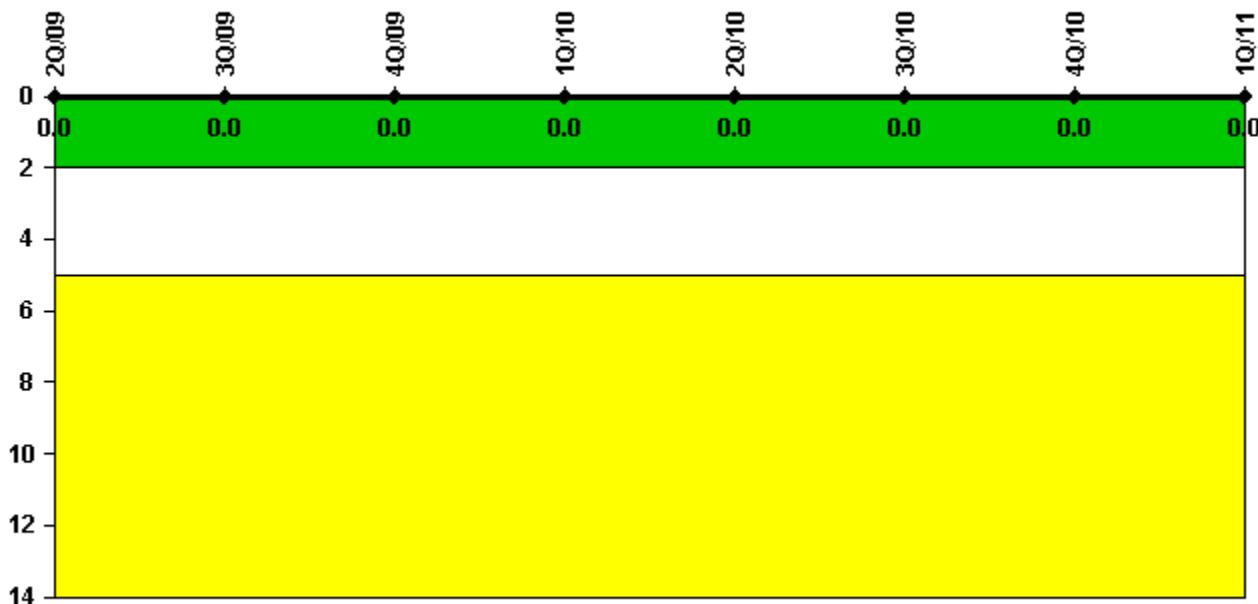
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful siren-tests	1117	1190	1115	1119	1119	1118	1118	1119
Total sirens-tests	1119	1190	1116	1119	1119	1119	1120	1120
Indicator value	99.0%	99.2%	99.6%	99.9%	100.0%	100.0%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



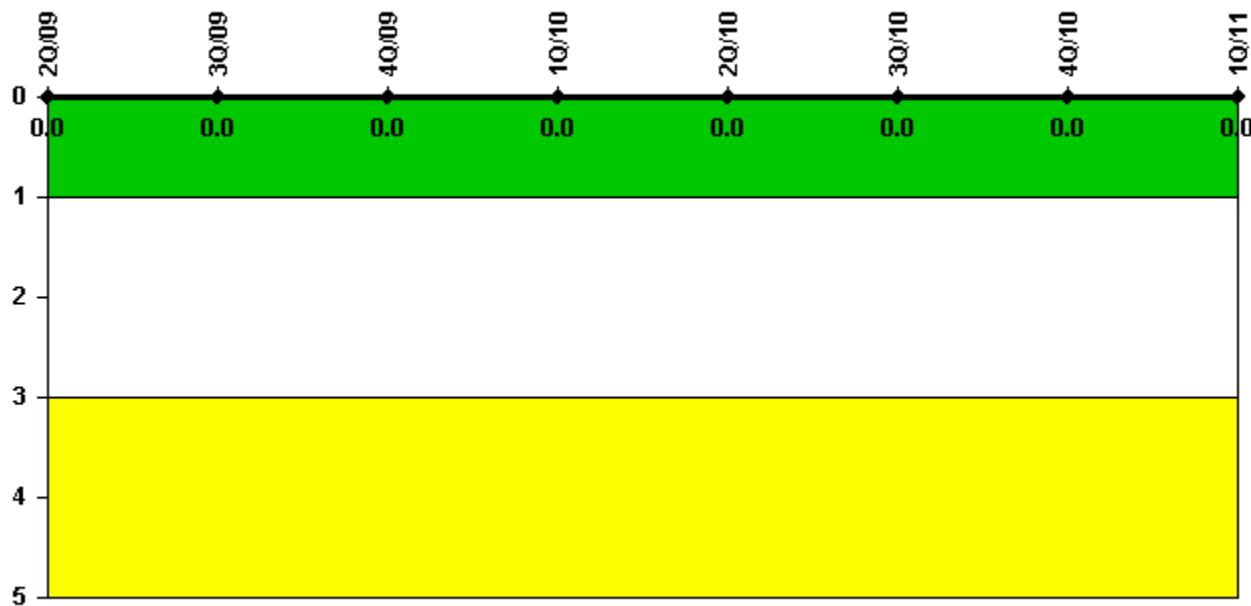
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

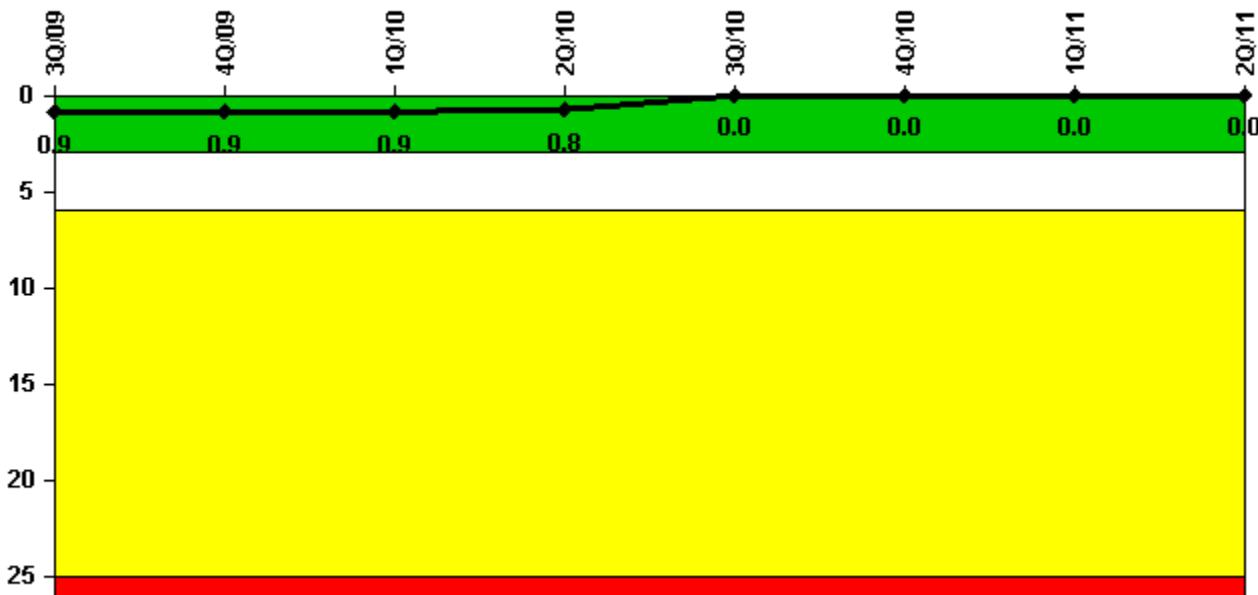
[Security](#) information not publicly available.

D.C. Cook 2

2Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



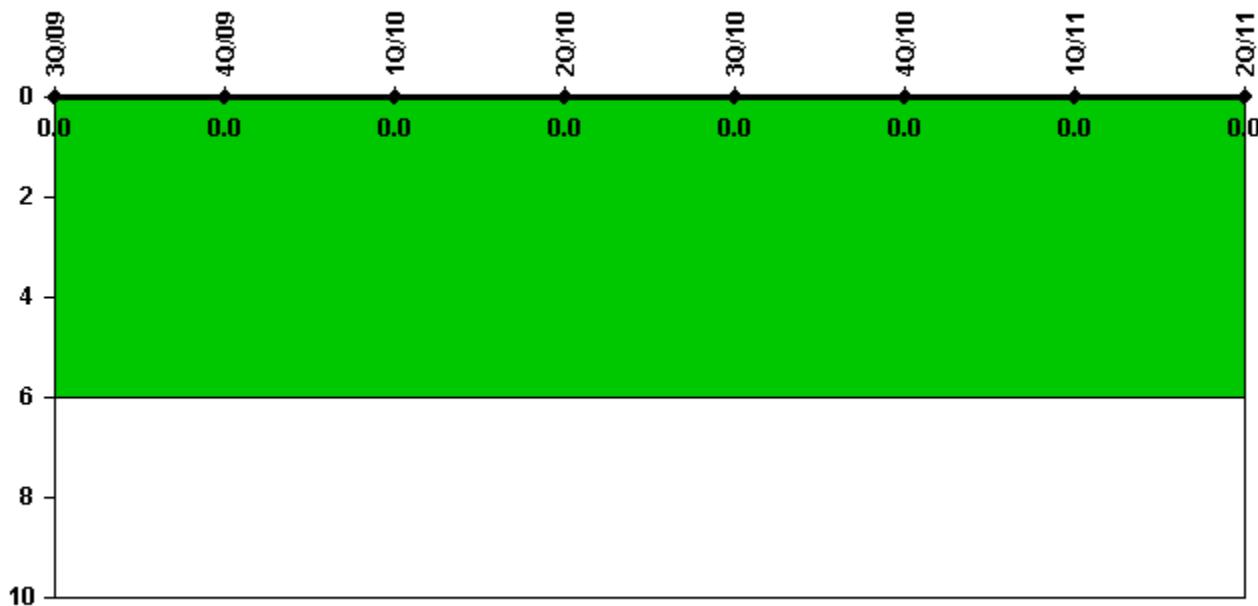
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	1908.0	2209.0	2159.0	2184.0	2208.0	767.4	2159.0	2184.0
Indicator value	0.9	0.9	0.9	0.8	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



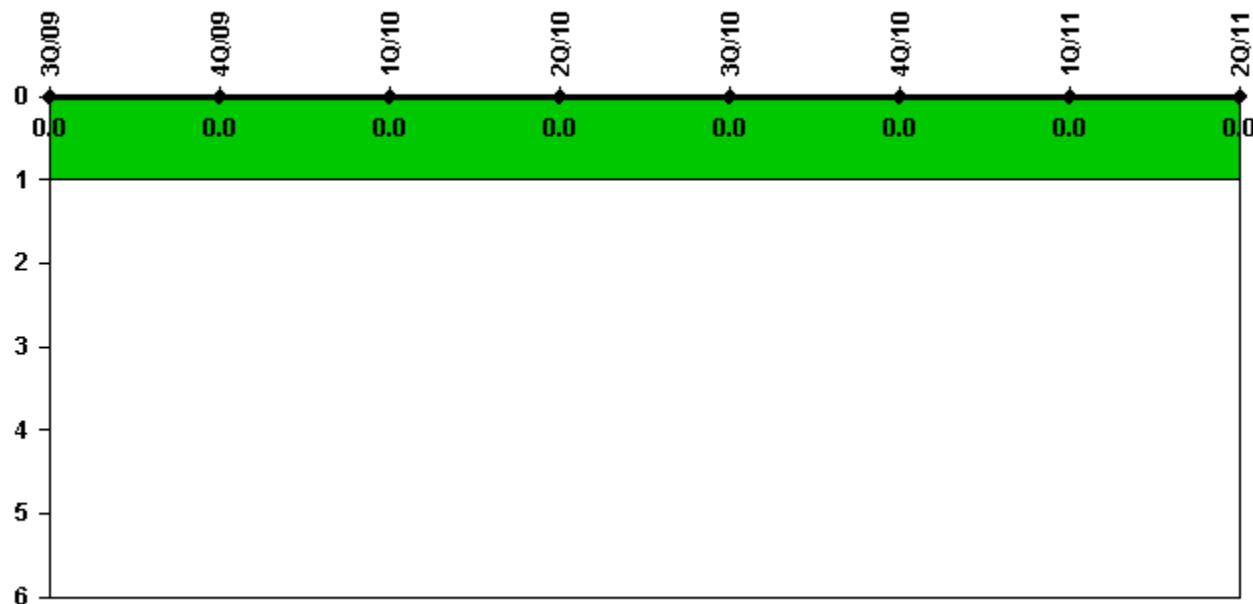
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1908.0	2209.0	2159.0	2184.0	2208.0	767.4	2159.0	2184.0
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



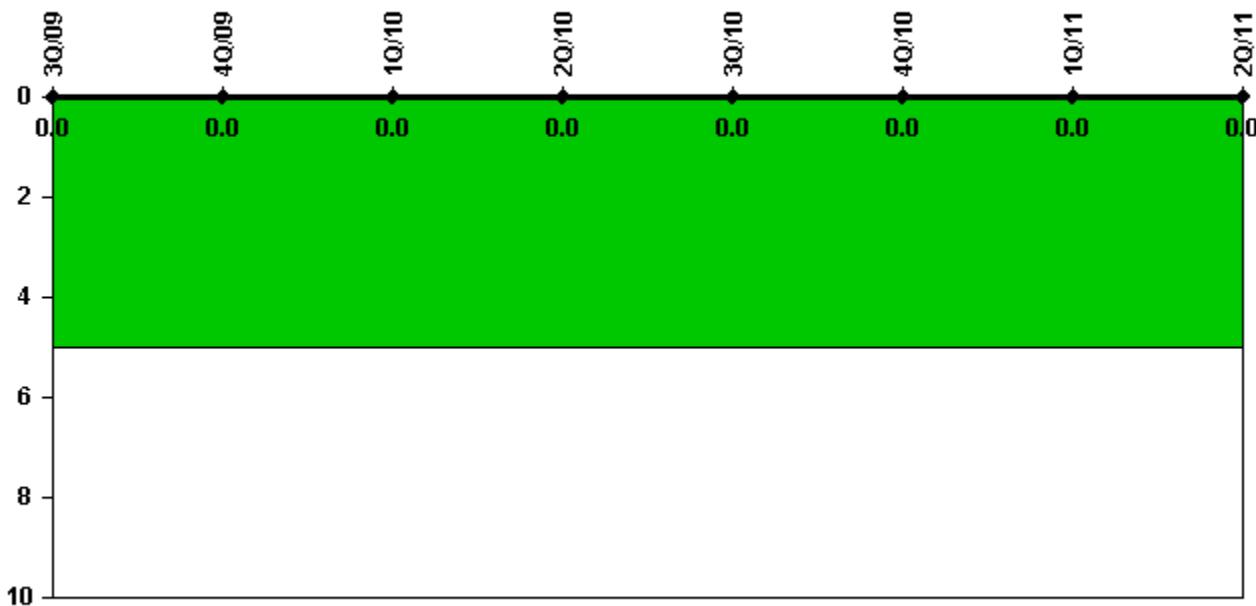
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



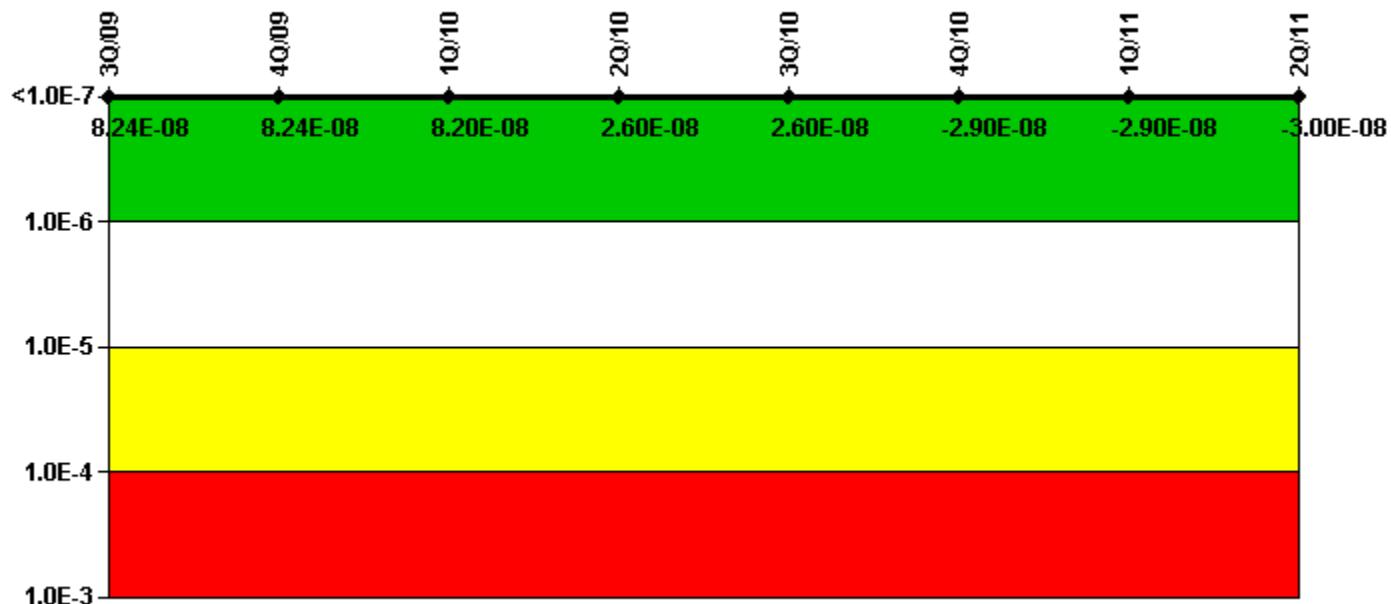
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



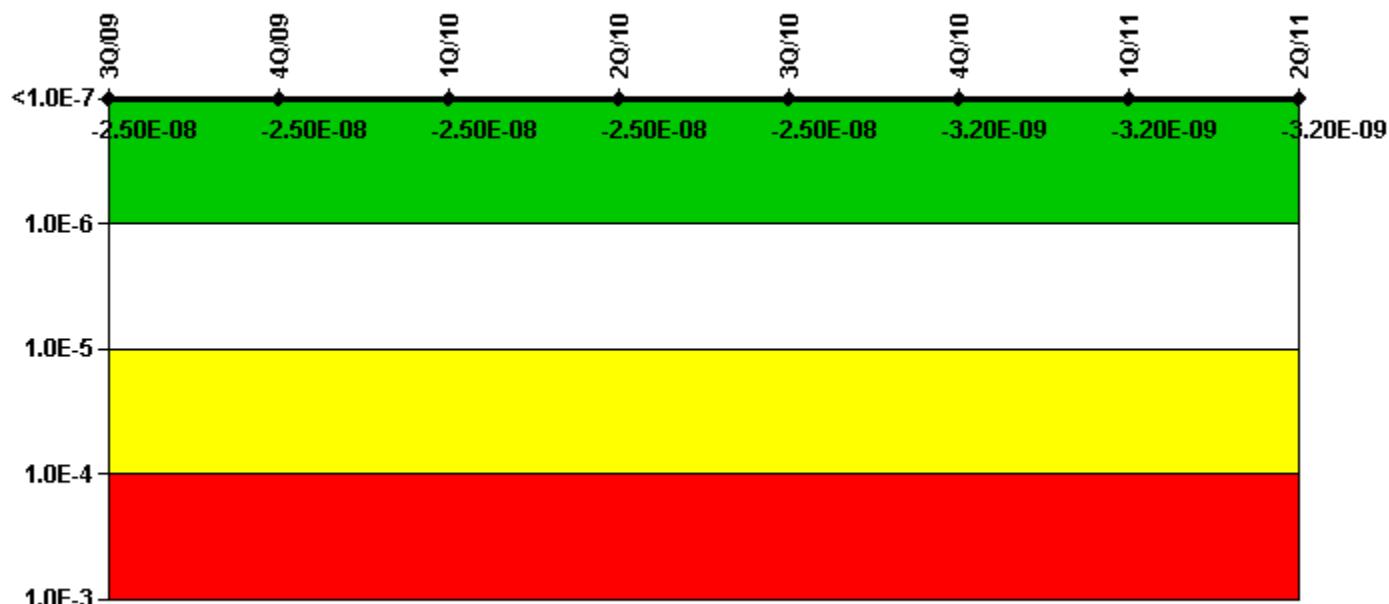
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	3.80E-10	3.70E-10	3.49E-10	2.06E-10	5.69E-10	5.80E-10	6.00E-10	3.07E-10
URI (Δ CDF)	8.20E-08	8.20E-08	8.16E-08	2.58E-08	2.58E-08	-2.99E-08	-2.99E-08	-2.99E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.24E-08	8.24E-08	8.20E-08	2.60E-08	2.60E-08	-2.90E-08	-2.90E-08	-3.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



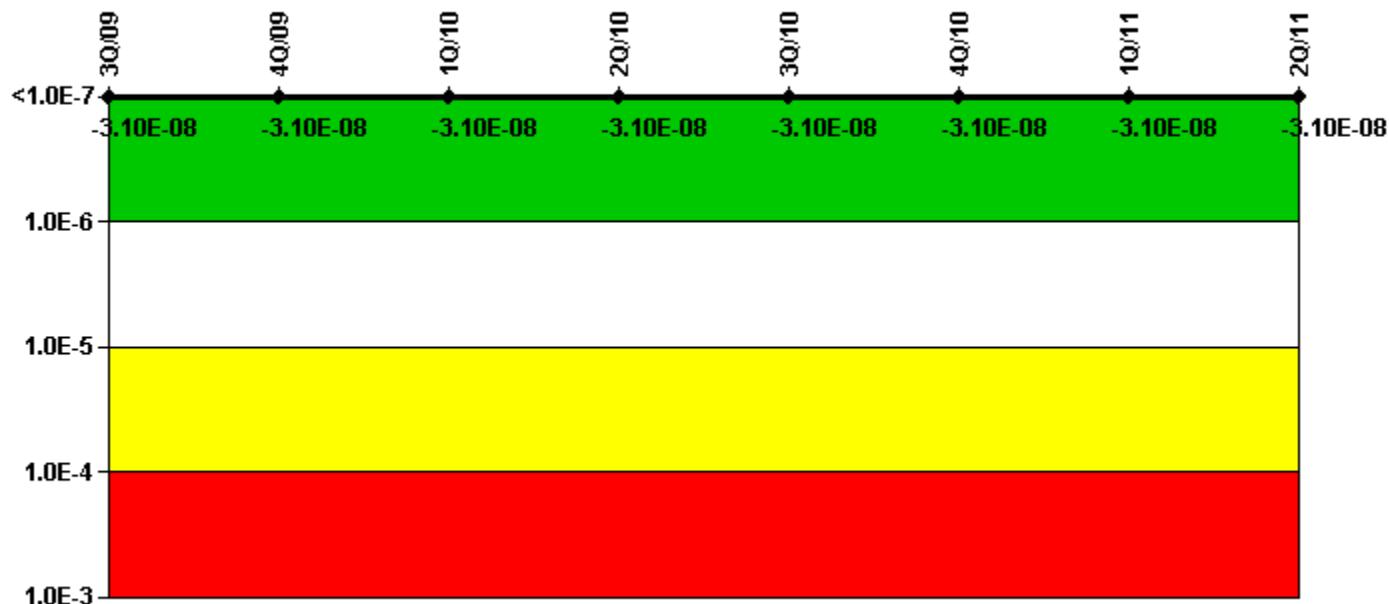
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	-2.70E-11	-2.70E-11	-2.66E-11	-2.66E-11	-2.66E-11	-2.66E-11	-2.66E-11	-2.66E-11
URI (Δ CDF)	-2.50E-08	-2.50E-08	-2.49E-08	-2.49E-08	-2.49E-08	-3.19E-09	-3.19E-09	-3.19E-09
PLE	NO							
Indicator value	-2.50E-08	-2.50E-08	-2.50E-08	-2.50E-08	-2.50E-08	-3.20E-09	-3.20E-09	-3.20E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



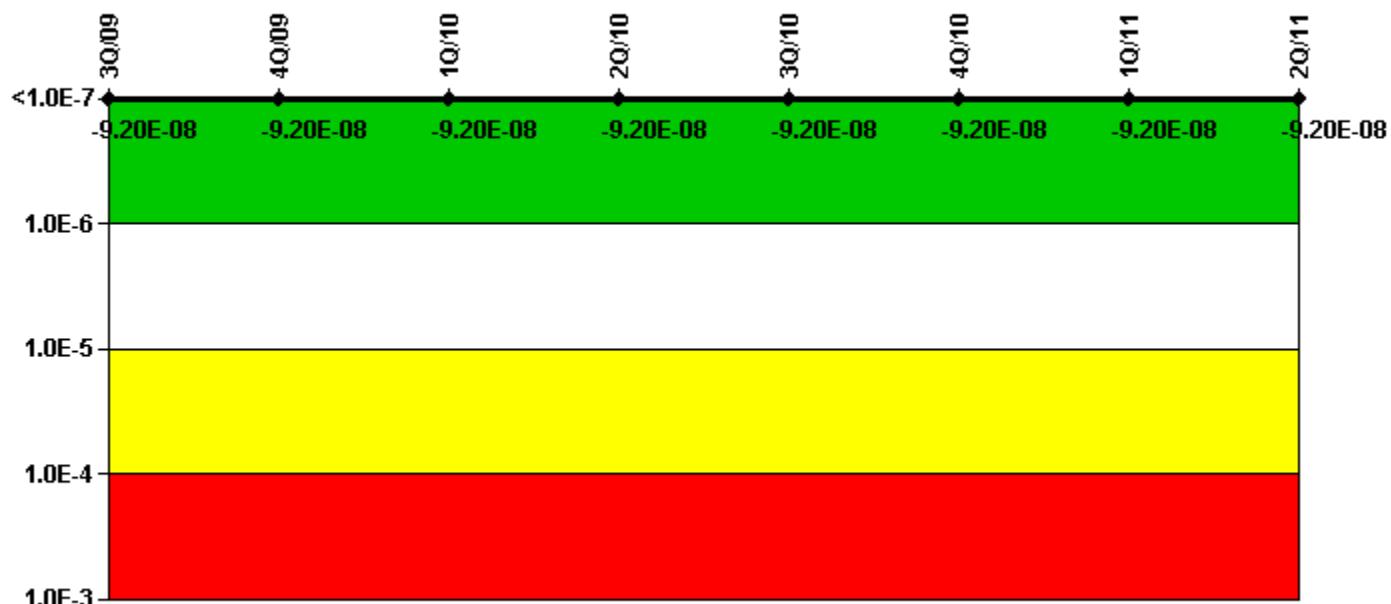
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	-2.90E-11	-2.90E-11	-2.85E-11	-2.85E-11	-2.85E-11	-2.85E-11	-2.85E-11	-2.85E-11
URI (Δ CDF)	-3.10E-08	-3.10E-08	-3.05E-08	-3.05E-08	-3.05E-08	-3.12E-08	-3.12E-08	-3.12E-08
PLE	NO							
Indicator value	-3.10E-08							

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



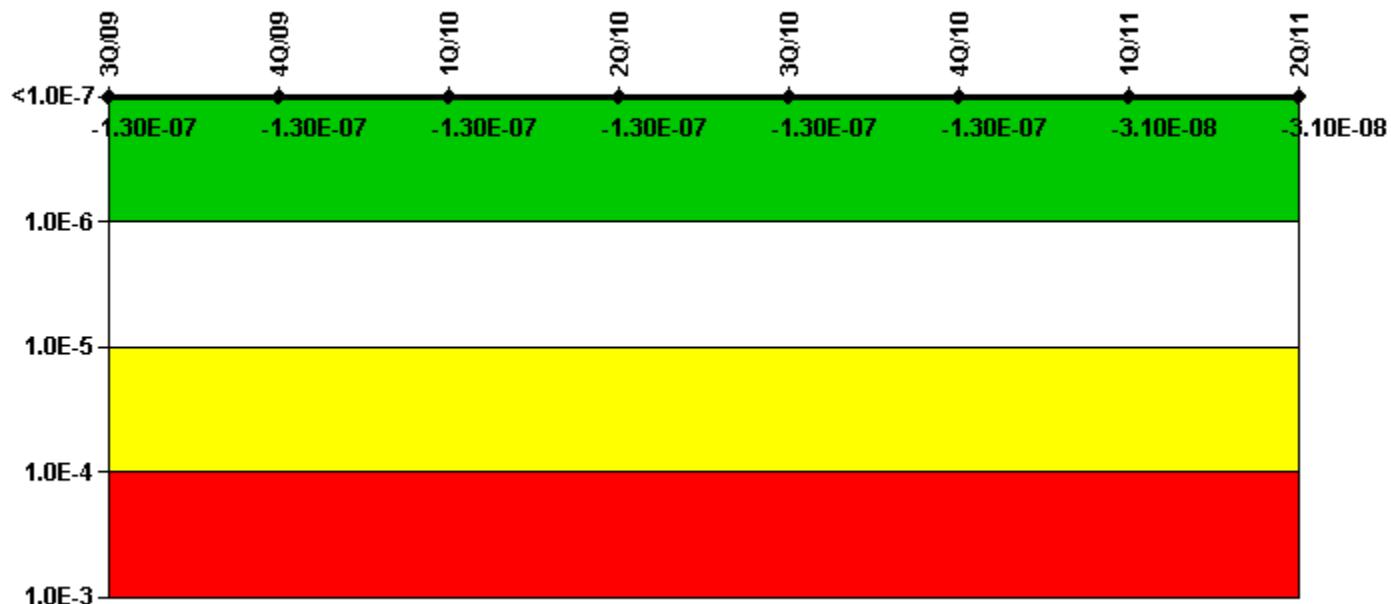
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	-3.20E-13	-3.20E-13	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13
URI (Δ CDF)	-9.20E-08							
PLE	NO							
Indicator value	-9.20E-08							

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



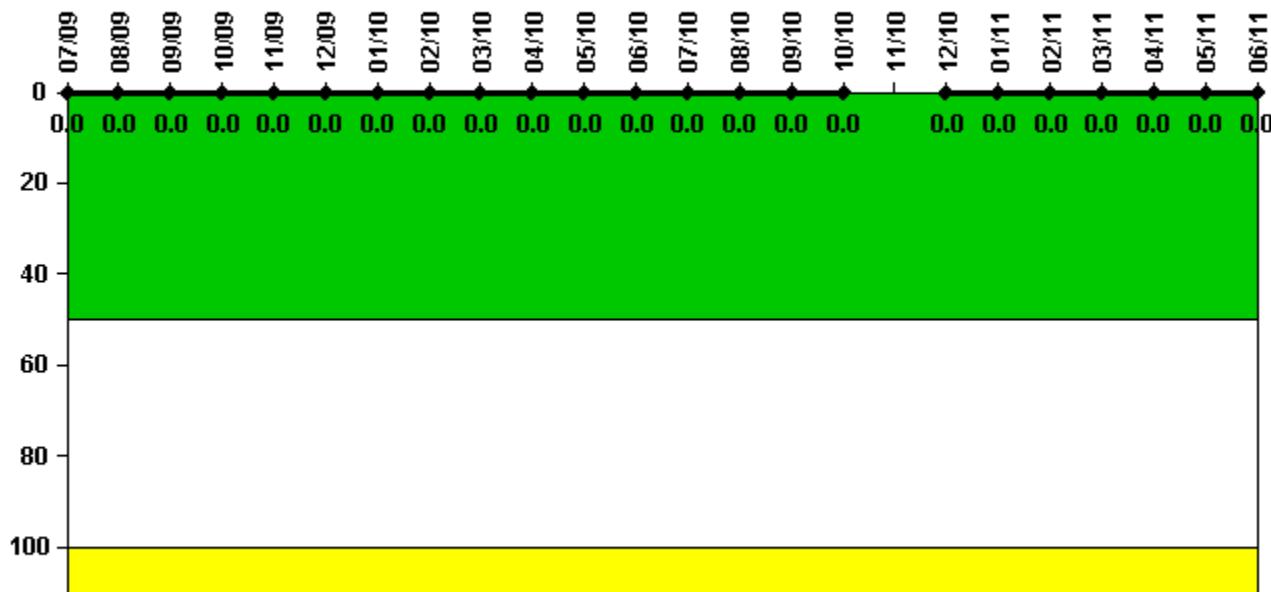
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	-3.30E-11	-3.50E-11	-2.20E-12	-6.80E-12	-3.53E-11	-3.31E-11	8.50E-12	8.50E-12
URI (Δ CDF)	-1.30E-07	-1.30E-07	-1.27E-07	-1.27E-07	-1.27E-07	-1.27E-07	-3.06E-08	-3.07E-08
PLE	NO							
Indicator value	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-3.10E-08	-3.10E-08

Licensee Comments: none

Reactor Coolant System Activity



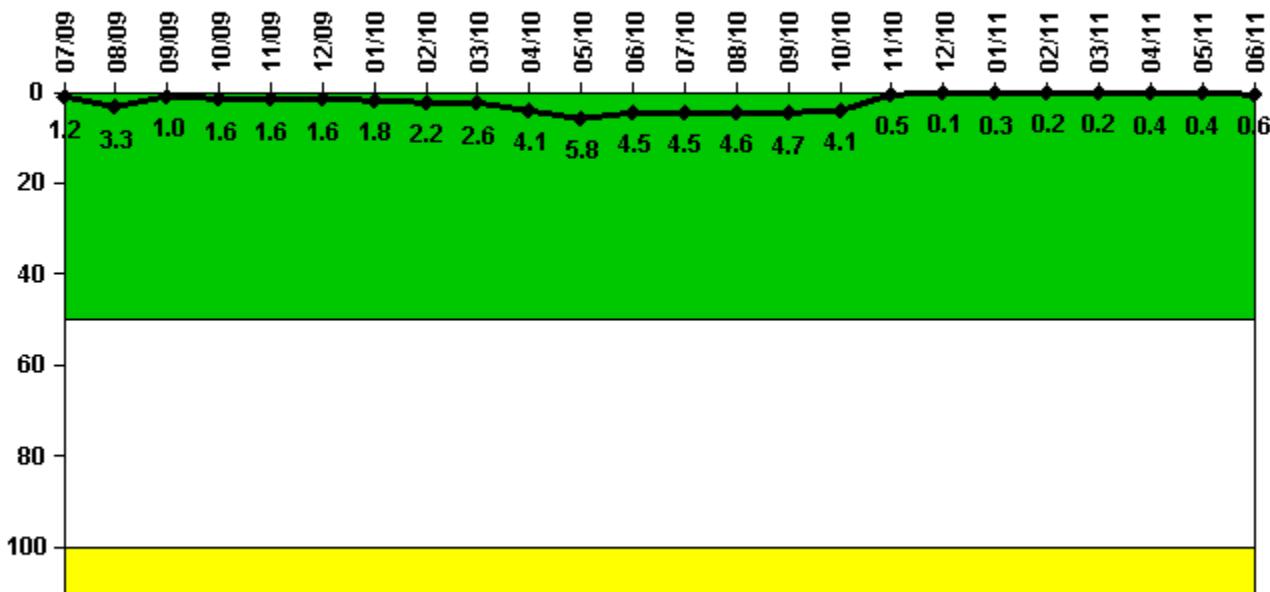
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum activity	0.000127	0.000123	0.000130	0.000139	0.000143	0.000148	0.000151	0.000164	0.000162	0.000163	0.000180	0.000171
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.000178	0.000178	0.000205	0.000350	N/A	0.000168	0.000094	0.000098	0.000100	0.000146	0.000152	0.000167
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	N/A	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



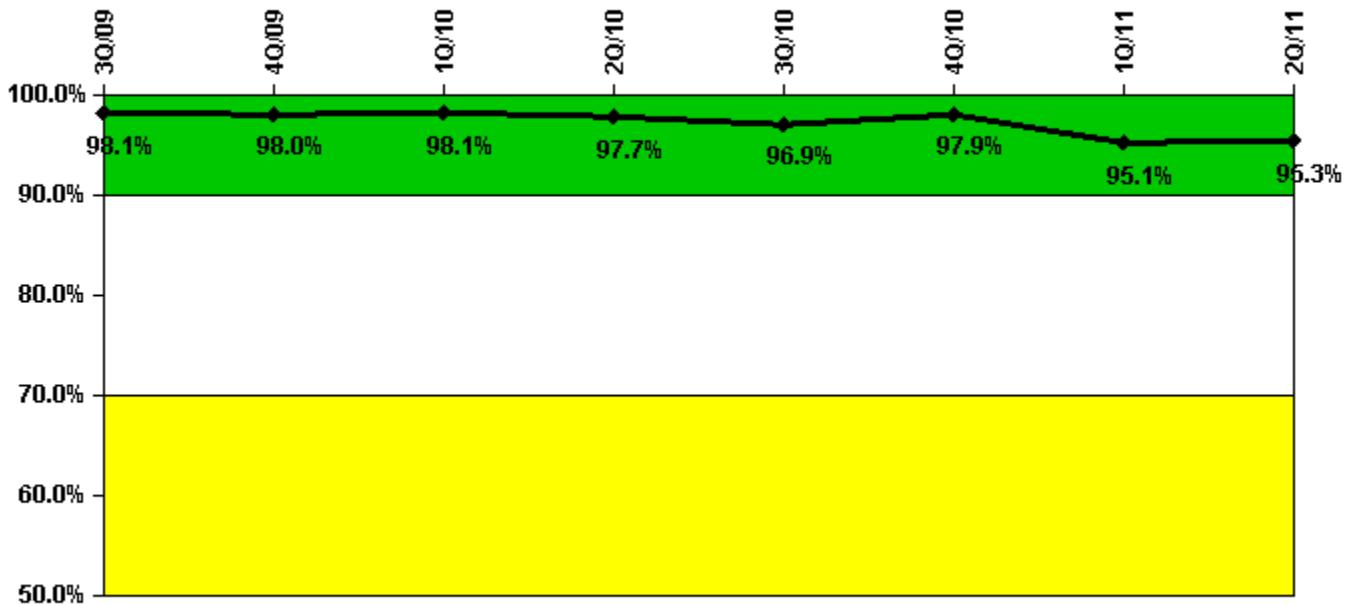
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum leakage	0.127	0.362	0.108	0.171	0.176	0.181	0.201	0.243	0.291	0.447	0.636	0.500
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	1.2	3.3	1.0	1.6	1.6	1.6	1.8	2.2	2.6	4.1	5.8	4.5
Reactor Coolant System Leakage	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum leakage	0.497	0.502	0.515	0.448	0.050	0.016	0.038	0.027	0.025	0.041	0.048	0.061
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	4.5	4.6	4.7	4.1	0.5	0.1	0.3	0.2	0.2	0.4	0.4	0.6

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

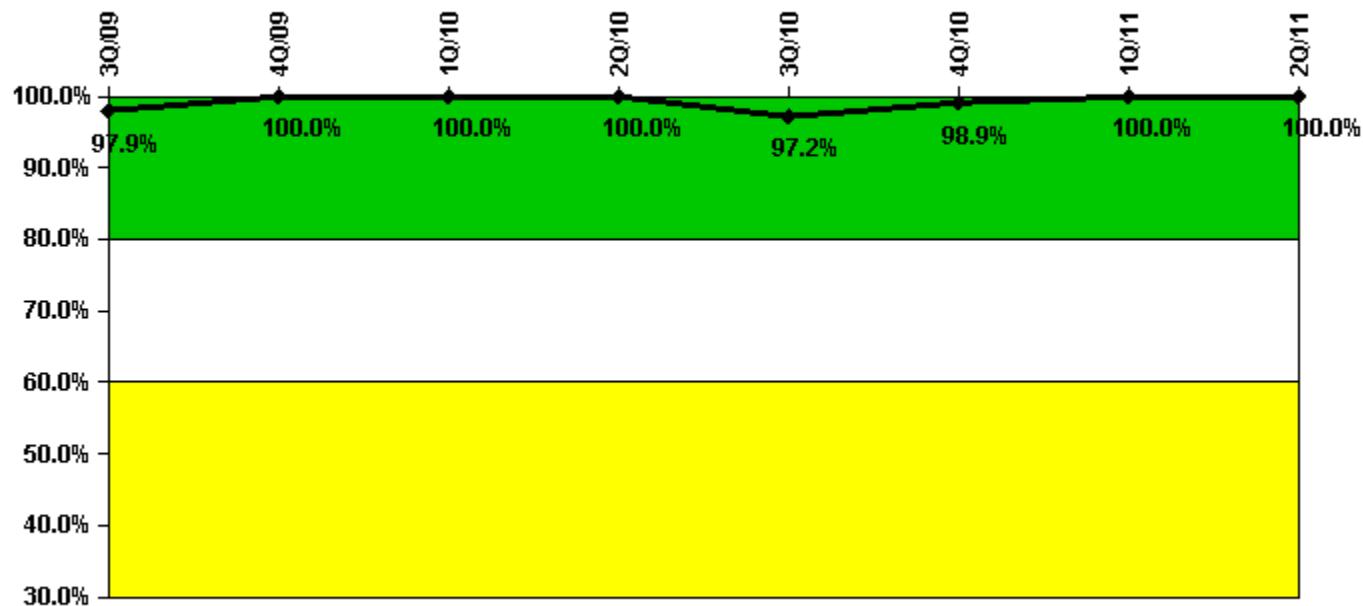
Notes

Drill/Exercise Performance	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful opportunities	82.0	16.0	12.0	26.0	29.0	19.0	43.0	16.0
Total opportunities	85.0	16.0	12.0	28.0	29.0	19.0	50.0	16.0
Indicator value	98.1%	98.0%	98.1%	97.7%	96.9%	97.9%	95.1%	95.3%

Licensee Comments:

1Q/11: Previously submitted data for February 2011 was revised to correct an error in grading drill results. Data was changed from "19 of 21 successful" to "18 of 21 successful". This changes the first quarter 2011 total from "44 of 50 successful" to "43 of 50 successful". This change has no impact on performance indicator color.

ERO Drill Participation



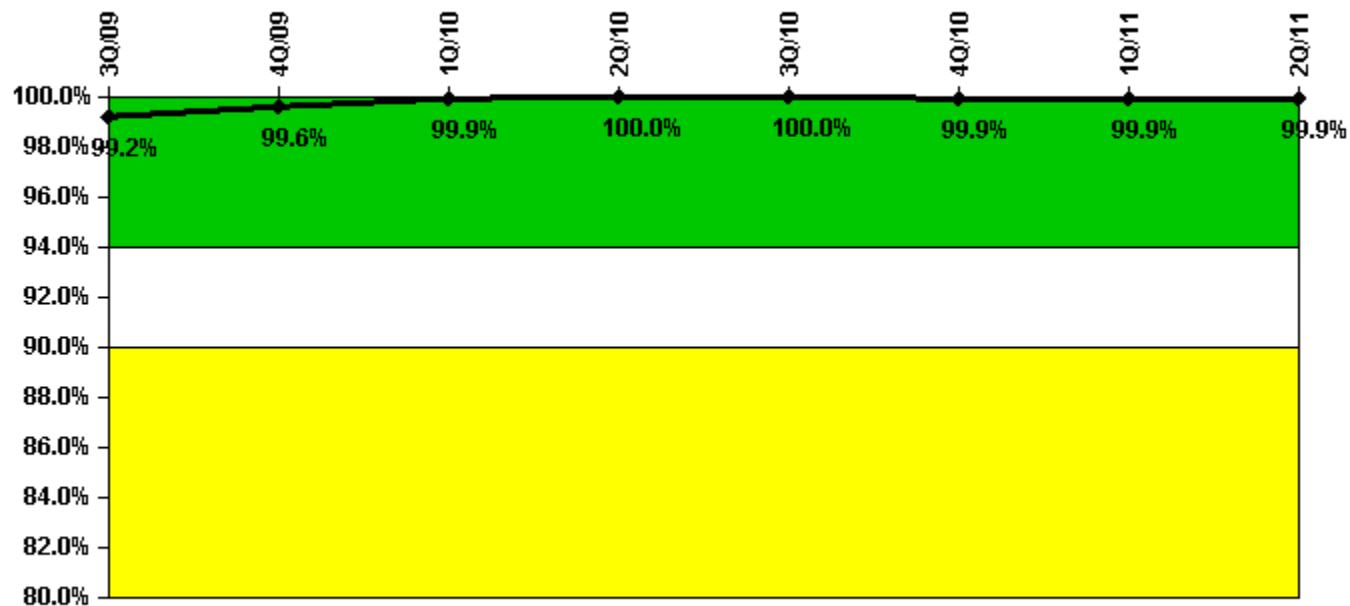
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Participating Key personnel	140.0	144.0	95.0	96.0	103.0	94.0	92.0	92.0
Total Key personnel	143.0	144.0	95.0	96.0	106.0	95.0	92.0	92.0
Indicator value	97.9%	100.0%	100.0%	100.0%	97.2%	98.9%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



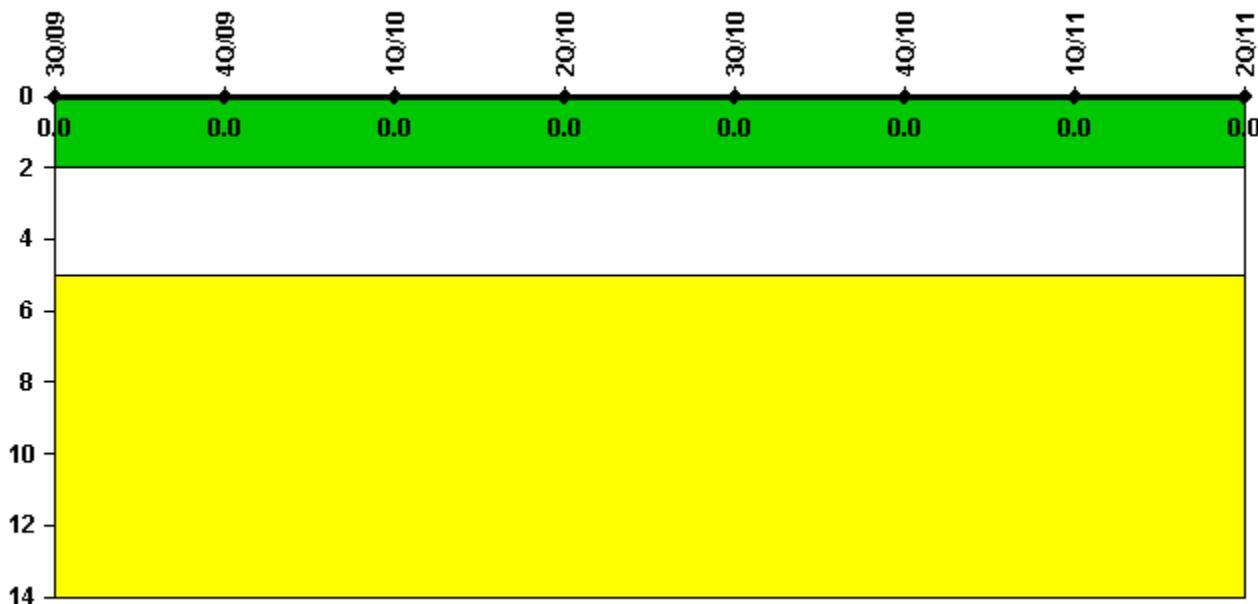
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful siren-tests	1190	1115	1119	1119	1118	1118	1119	1117
Total sirens-tests	1190	1116	1119	1119	1119	1120	1120	1119
Indicator value	99.2%	99.6%	99.9%	100.0%	100.0%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



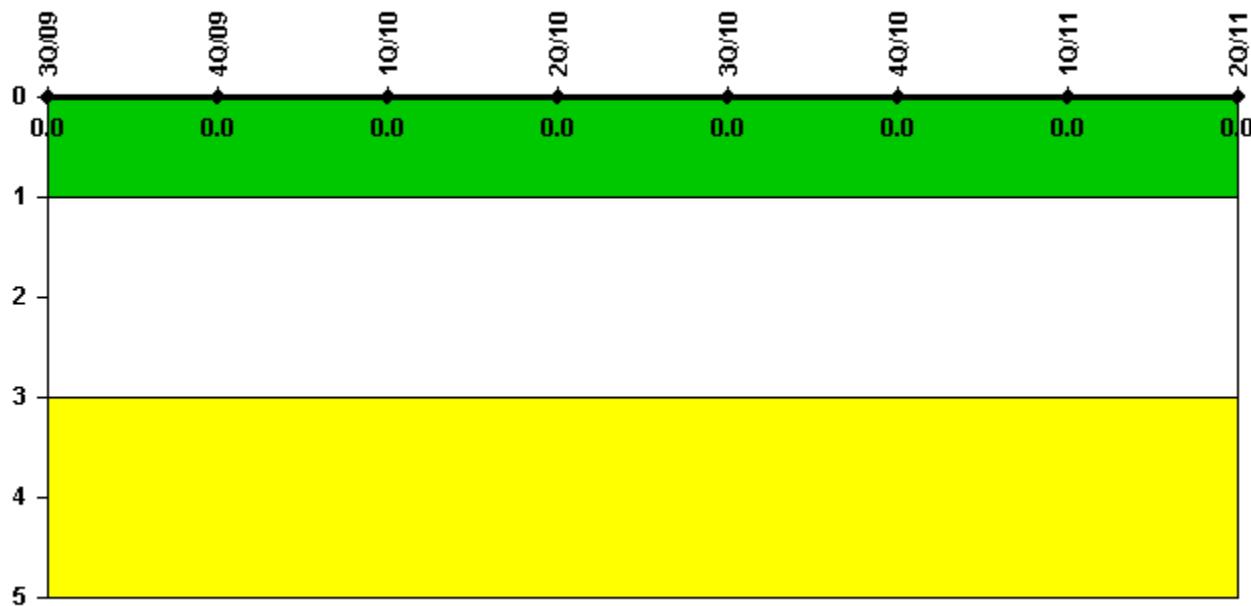
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Security](#) information not publicly available.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

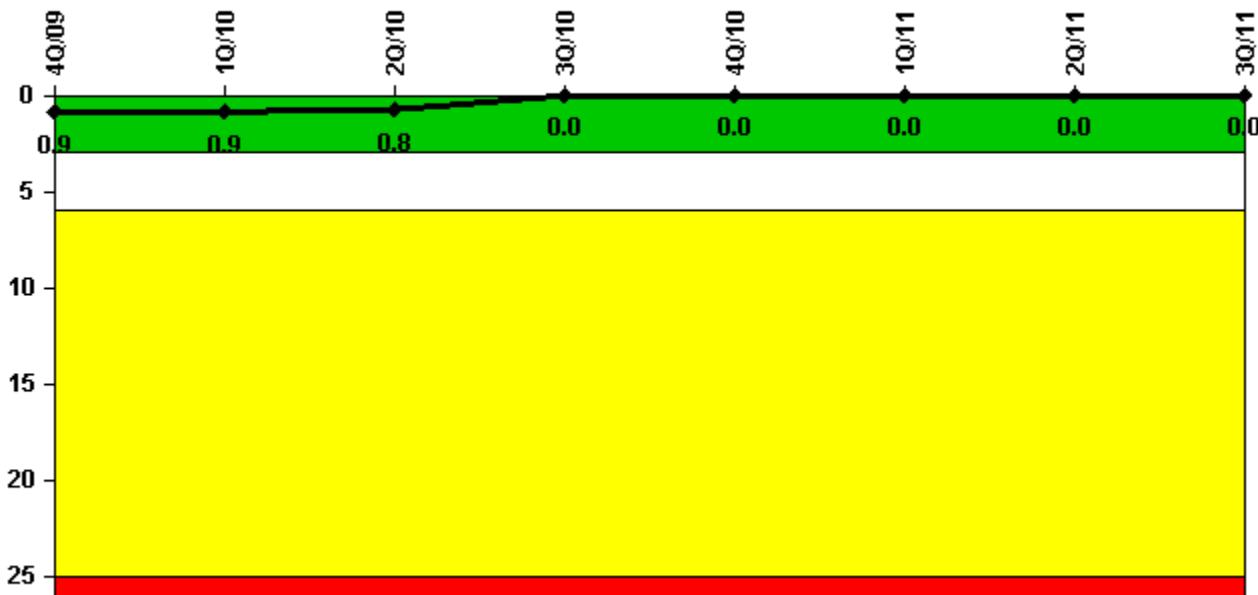
Last Modified: July 22, 2011

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3Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



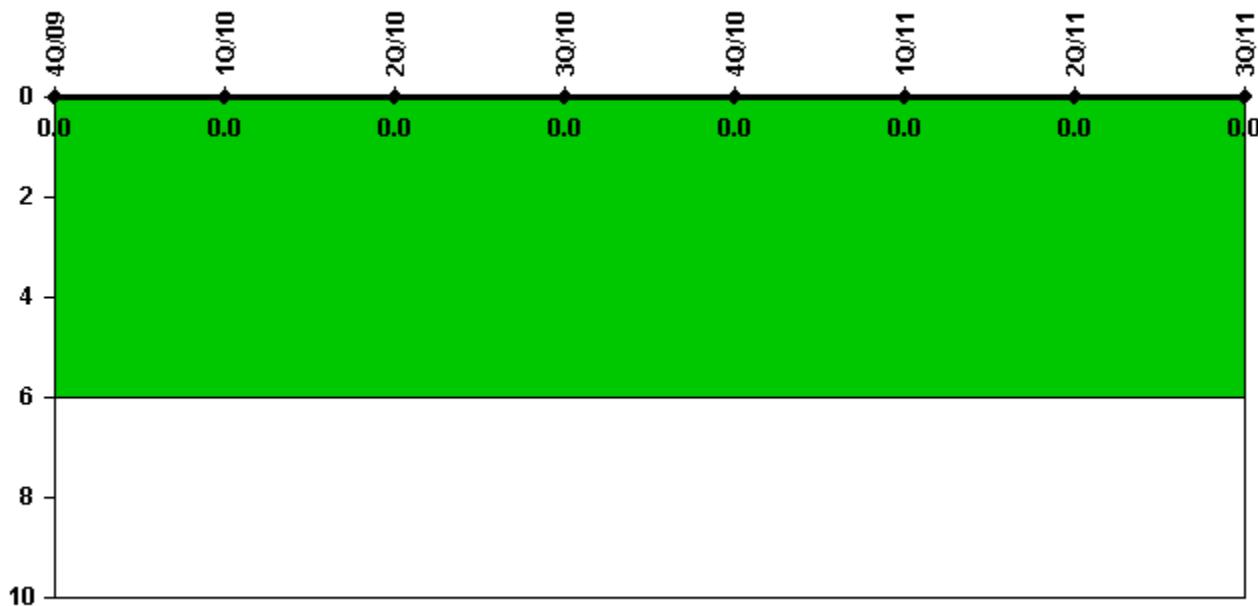
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	767.4	2159.0	2184.0	2208.0
Indicator value	0.9	0.9	0.8	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



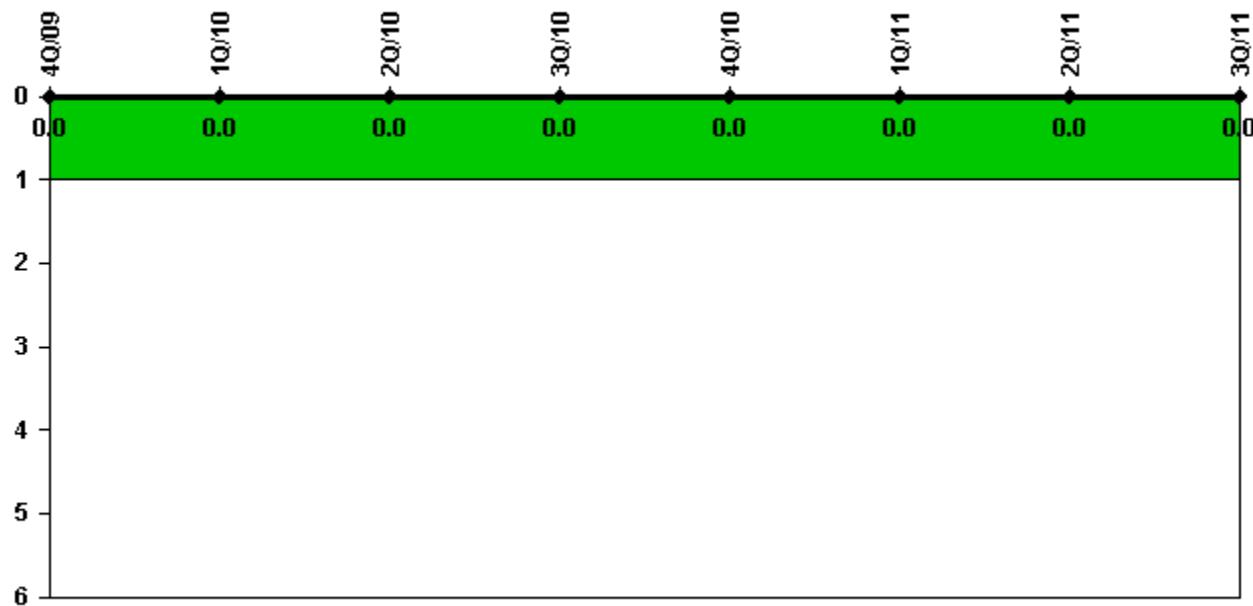
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	767.4	2159.0	2184.0	2208.0
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



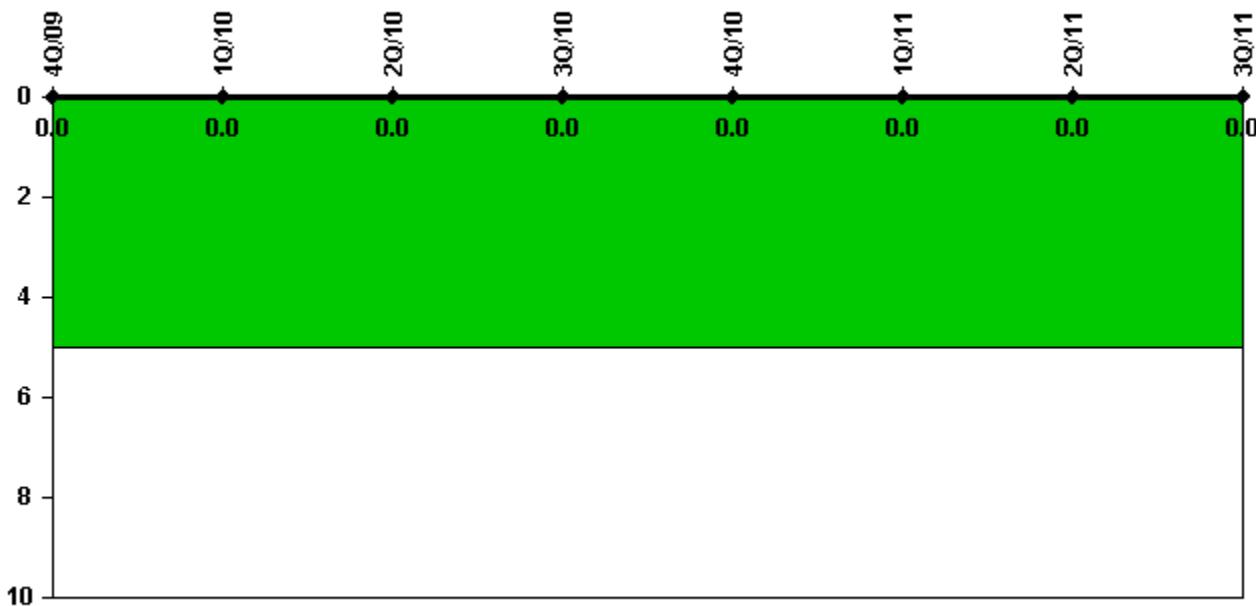
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



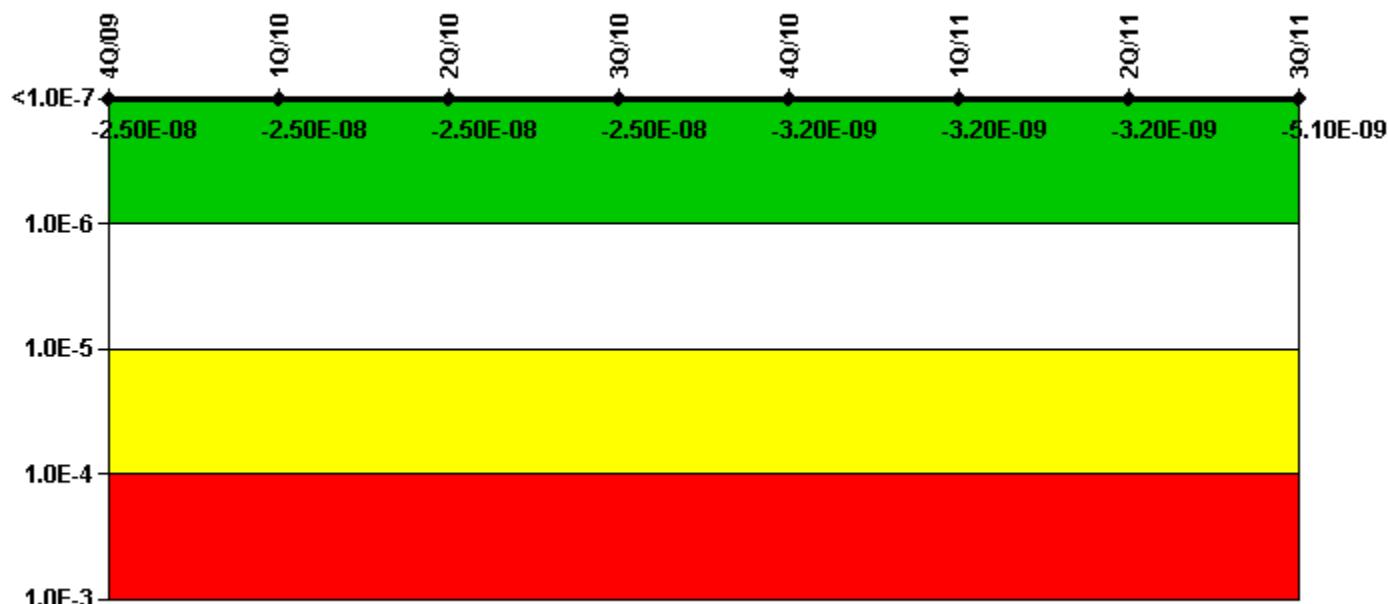
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	3.70E-10	3.49E-10	2.06E-10	5.69E-10	5.80E-10	6.00E-10	3.07E-10	-2.13E-10
URI (Δ CDF)	8.20E-08	8.16E-08	2.58E-08	2.58E-08	-2.99E-08	-2.99E-08	-2.99E-08	-3.11E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.24E-08	8.20E-08	2.60E-08	2.60E-08	-2.90E-08	-2.90E-08	-3.00E-08	-3.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



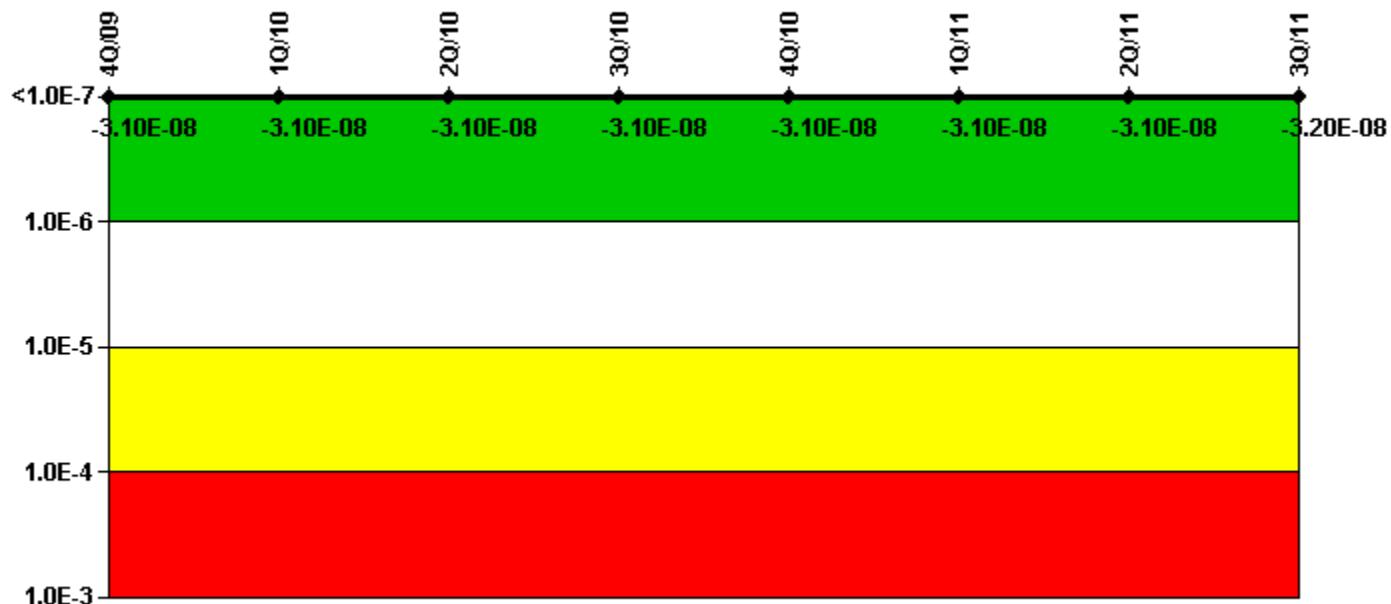
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	-2.70E-11	-2.66E-11						
URI (Δ CDF)	-2.50E-08	-2.49E-08	-2.49E-08	-2.49E-08	-3.19E-09	-3.19E-09	-3.19E-09	-5.04E-09
PLE	NO							
Indicator value	-2.50E-08	-2.50E-08	-2.50E-08	-2.50E-08	-3.20E-09	-3.20E-09	-3.20E-09	-5.10E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



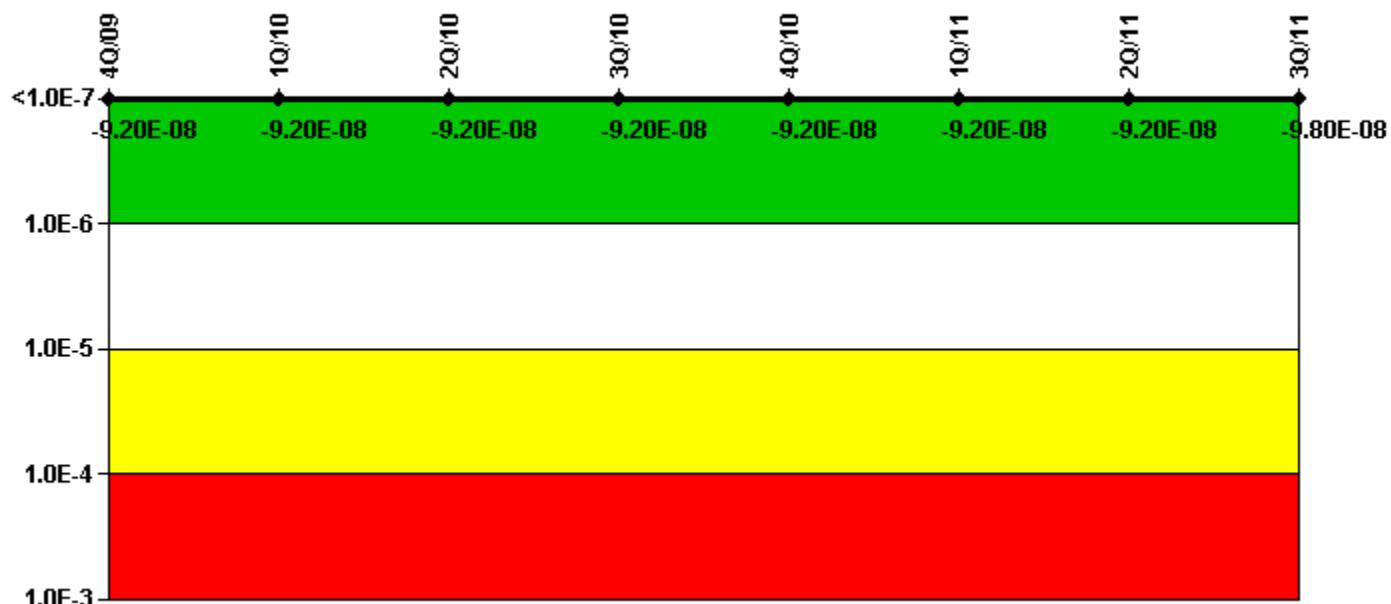
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	-2.90E-11	-2.85E-11						
URI (Δ CDF)	-3.10E-08	-3.05E-08	-3.05E-08	-3.05E-08	-3.12E-08	-3.12E-08	-3.12E-08	-3.20E-08
PLE	NO							
Indicator value	-3.10E-08	-3.20E-08						

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



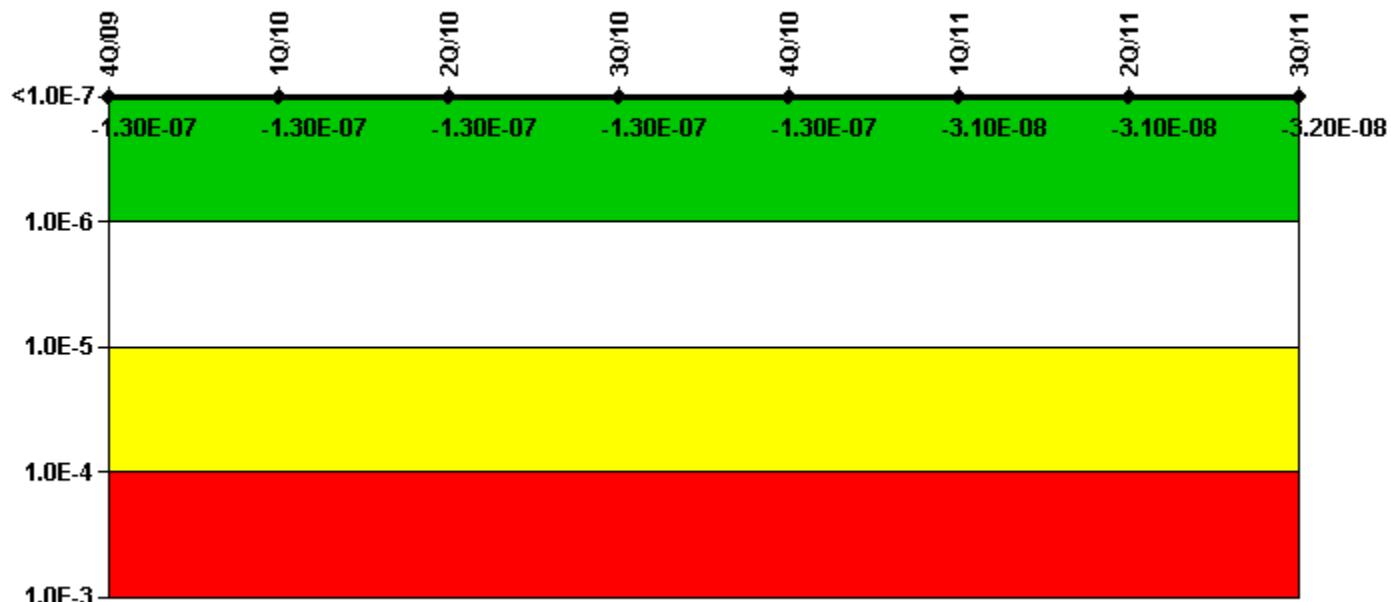
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	-3.20E-13	-3.23E-13						
URI (Δ CDF)	-9.20E-08	-9.83E-08						
PLE	NO							
Indicator value	-9.20E-08	-9.80E-08						

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



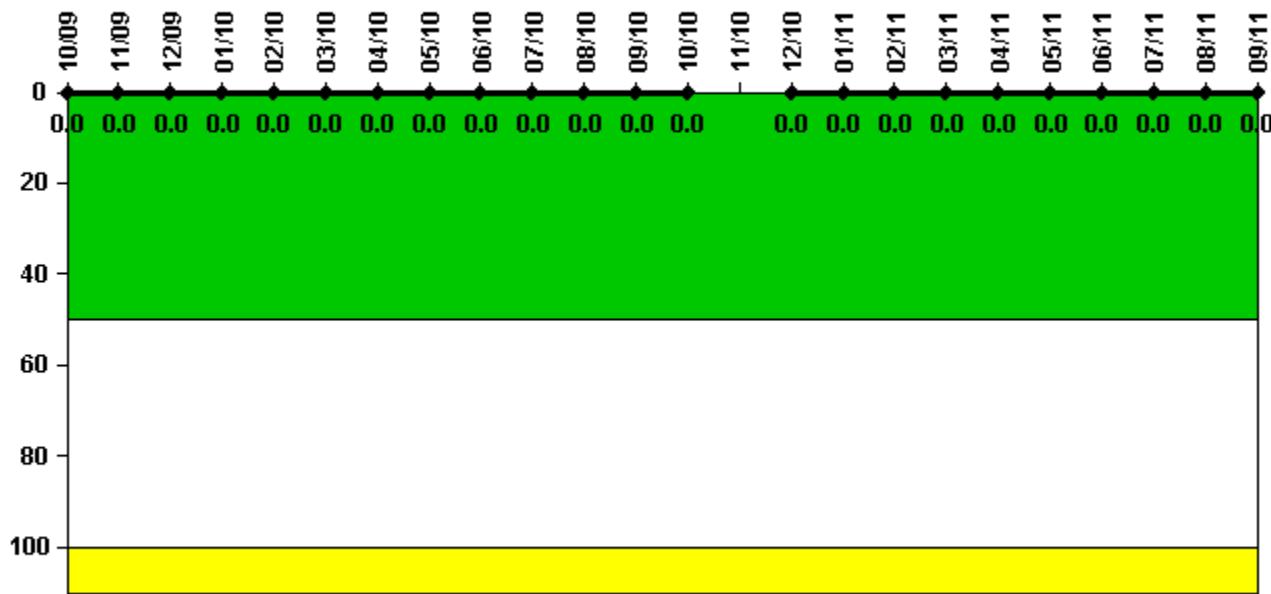
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	-3.50E-11	-2.20E-12	-6.80E-12	-3.53E-11	-3.31E-11	8.50E-12	8.50E-12	2.08E-12
URI (Δ CDF)	-1.30E-07	-1.27E-07	-1.27E-07	-1.27E-07	-1.27E-07	-3.06E-08	-3.07E-08	-3.19E-08
PLE	NO							
Indicator value	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-3.10E-08	-3.10E-08	-3.20E-08

Licensee Comments: none

Reactor Coolant System Activity



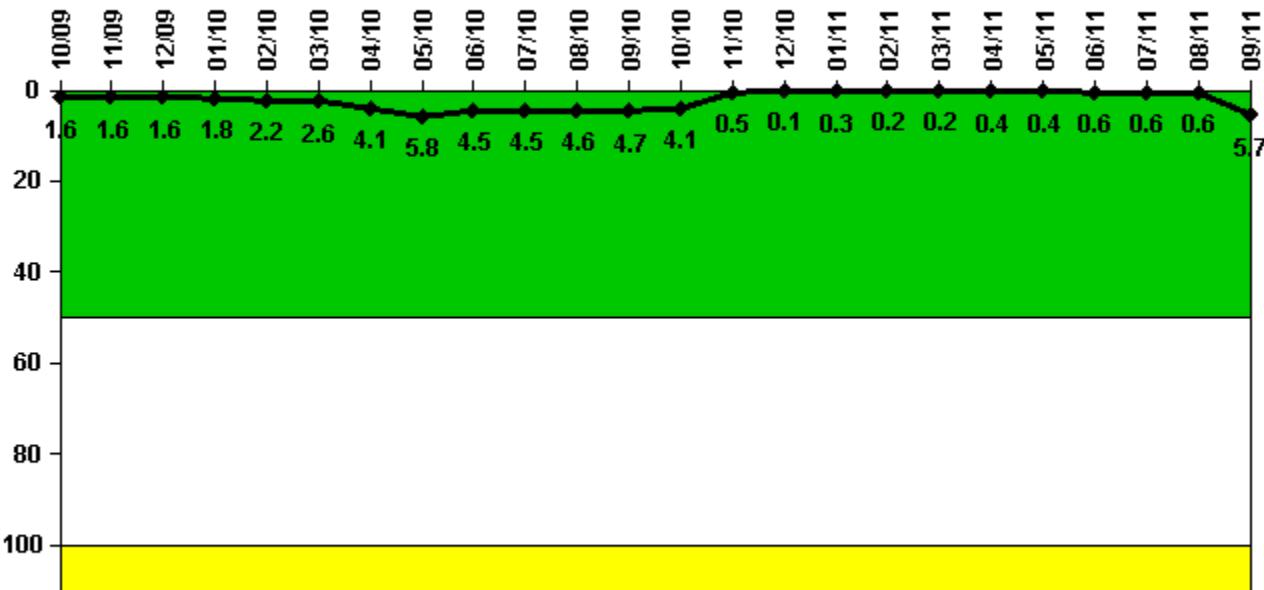
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum activity	0.0000139	0.0000143	0.0000148	0.0000151	0.0000164	0.0000162	0.0000163	0.0000180	0.0000171	0.0000178	0.0000178	0.0000205
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum activity	0.0000350	N/A	0.0000168	0.0000094	0.0000098	0.0000100	0.0000146	0.0000152	0.0000167	0.0000163	0.0000167	0.0000170
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	N/A	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

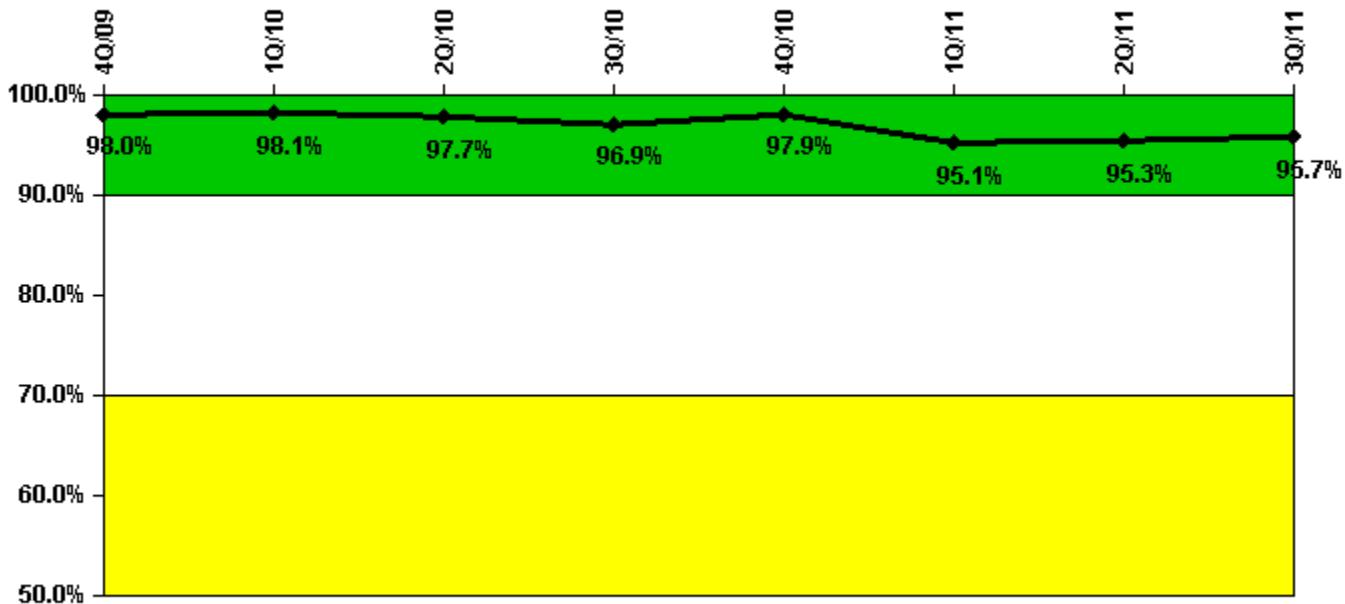
Notes

Reactor Coolant System Leakage	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum leakage	0.171	0.176	0.181	0.201	0.243	0.291	0.447	0.636	0.500	0.497	0.502	0.515
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	1.6	1.6	1.6	1.8	2.2	2.6	4.1	5.8	4.5	4.5	4.6	4.7
Reactor Coolant System Leakage	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum leakage	0.448	0.050	0.016	0.038	0.027	0.025	0.041	0.048	0.061	0.062	0.068	0.622
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	4.1	0.5	0.1	0.3	0.2	0.2	0.4	0.4	0.6	0.6	0.6	5.7

Licensee Comments:

9/11: Elevated (0.6 gpm) RCS leak rate in September due to apparent packing leak occurring during pressurizer PORV block valve stroke test on September 22; leak was isolated the following day.

Drill/Exercise Performance



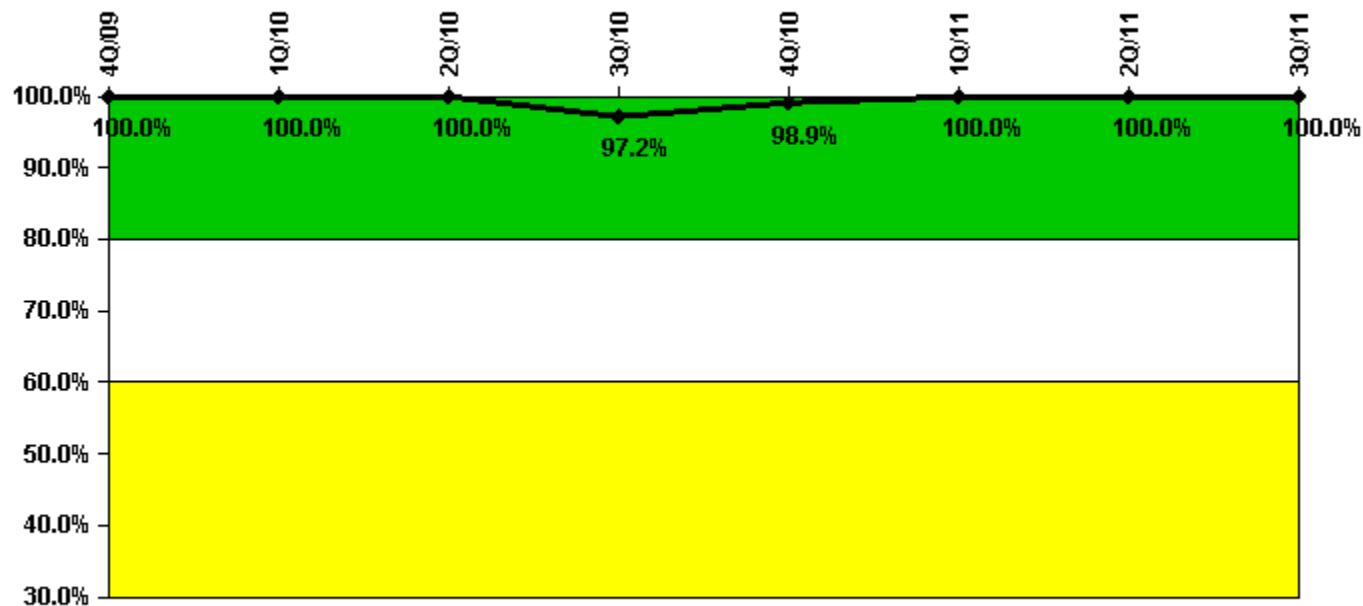
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful opportunities	16.0	12.0	26.0	29.0	19.0	43.0	16.0	41.0
Total opportunities	16.0	12.0	28.0	29.0	19.0	50.0	16.0	41.0
Indicator value	98.0%	98.1%	97.7%	96.9%	97.9%	95.1%	95.3%	95.7%

Licensee Comments: none

ERO Drill Participation



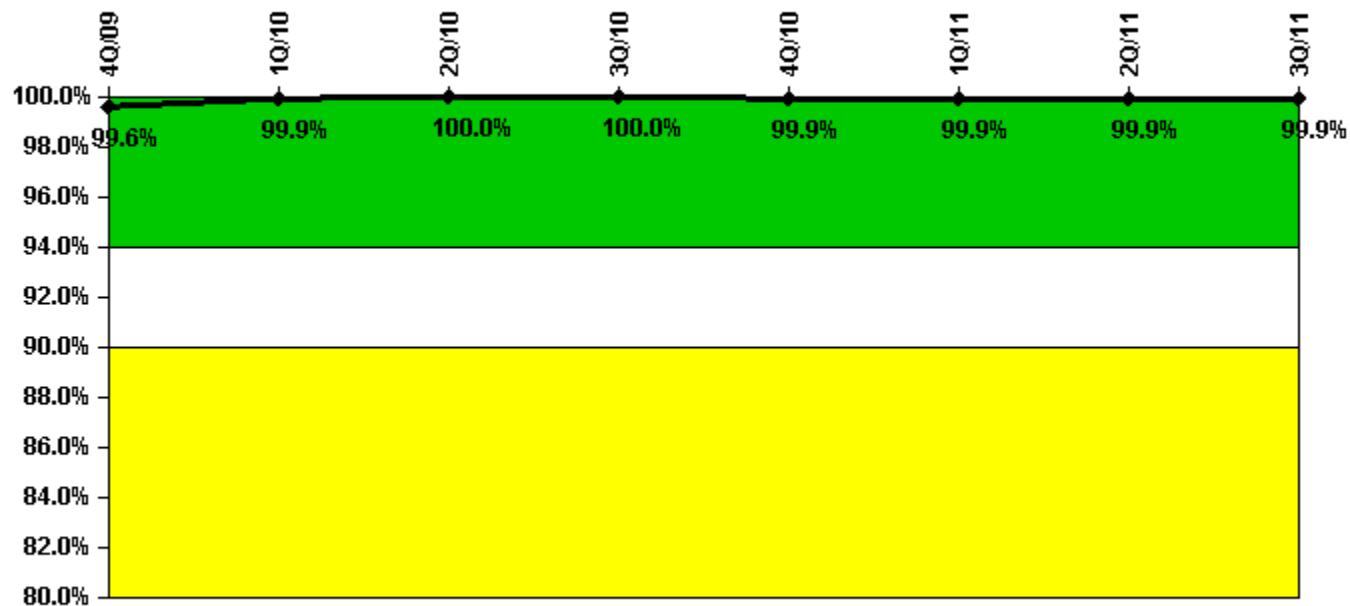
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Participating Key personnel	144.0	95.0	96.0	103.0	94.0	92.0	92.0	91.0
Total Key personnel	144.0	95.0	96.0	106.0	95.0	92.0	92.0	91.0
Indicator value	100.0%	100.0%	100.0%	97.2%	98.9%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



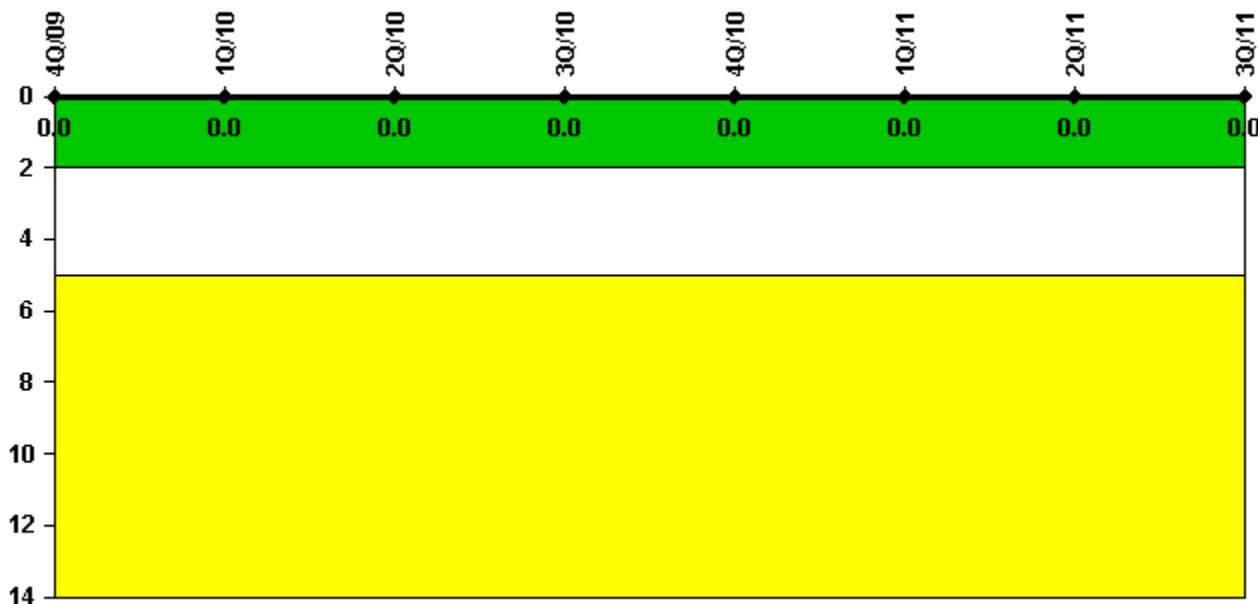
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful siren-tests	1115	1119	1119	1118	1118	1119	1117	1120
Total sirens-tests	1116	1119	1119	1119	1120	1120	1119	1120
Indicator value	99.6%	99.9%	100.0%	100.0%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



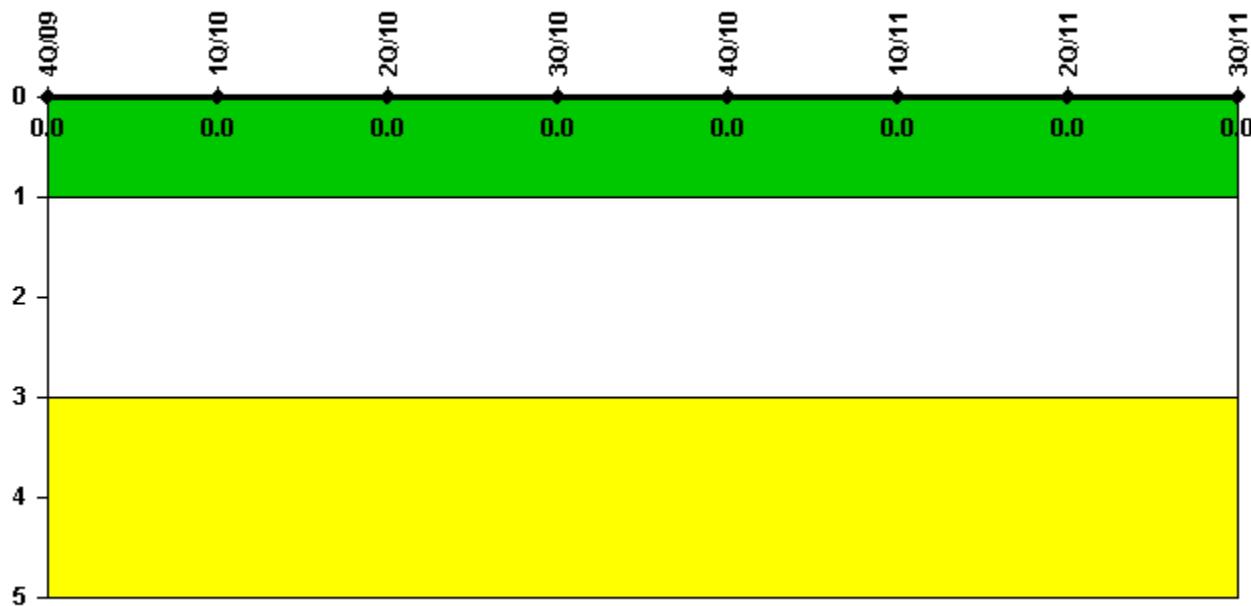
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Security](#) information not publicly available.

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4Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



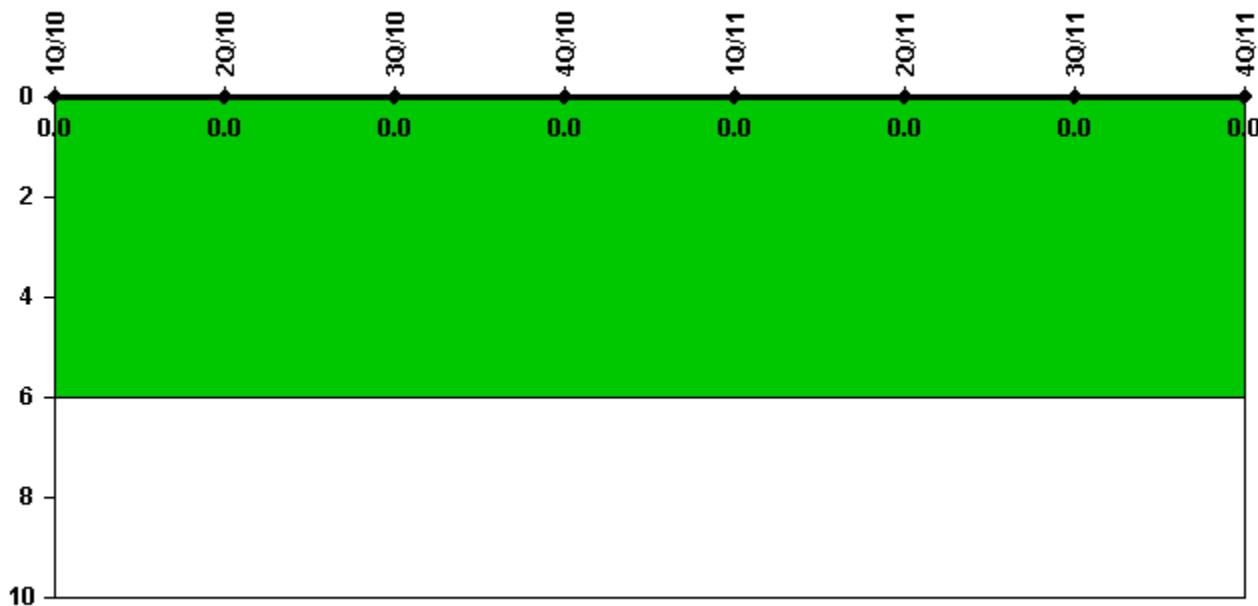
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	767.4	2159.0	2184.0	2208.0	2209.0
Indicator value	0.9	0.8	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



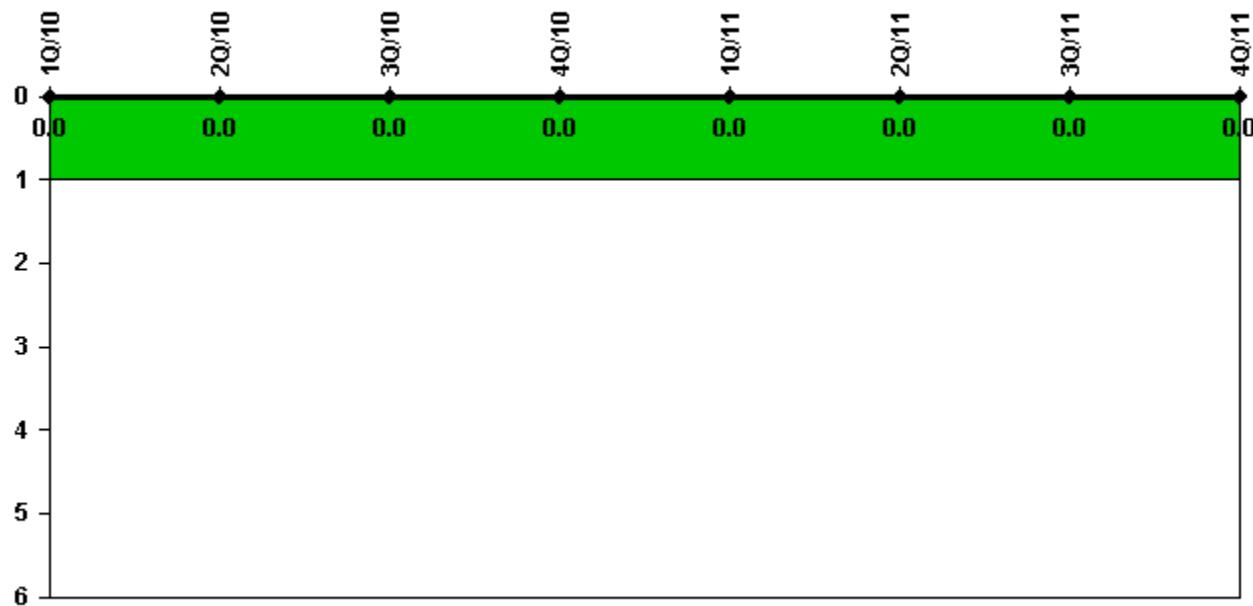
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	767.4	2159.0	2184.0	2208.0	2209.0
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



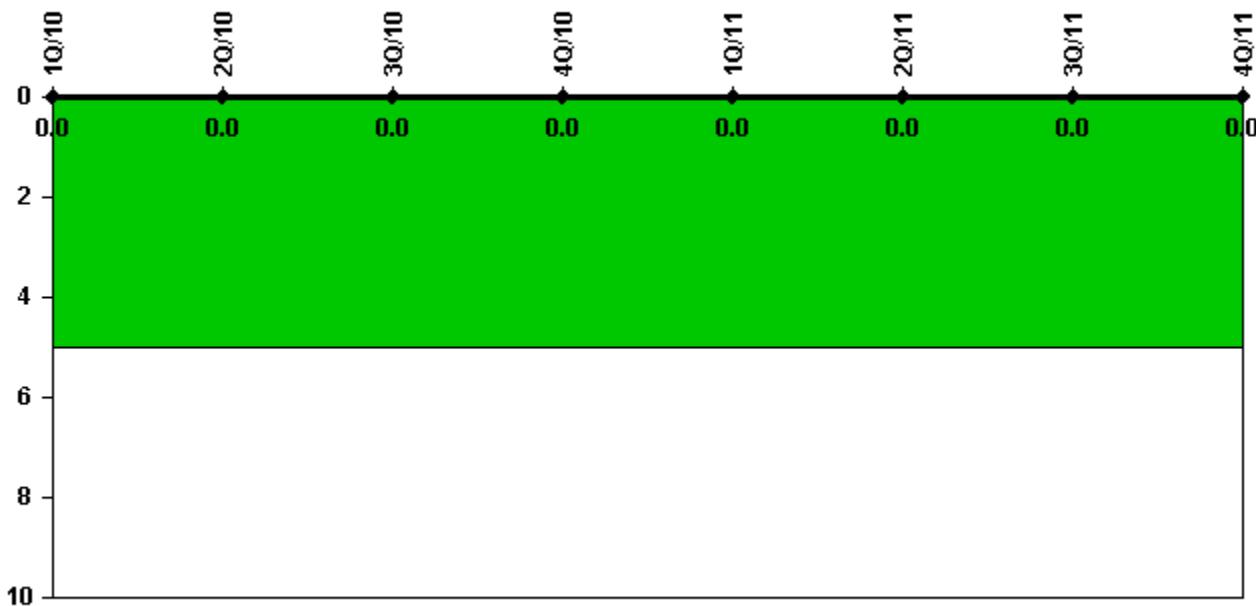
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



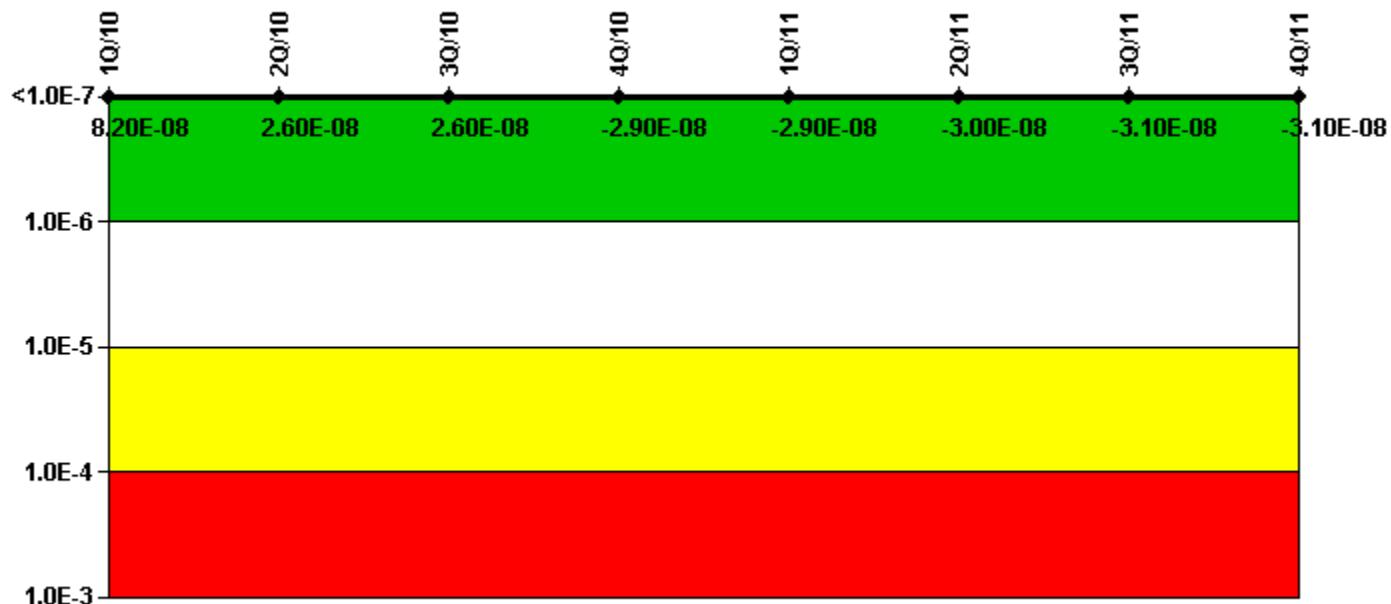
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



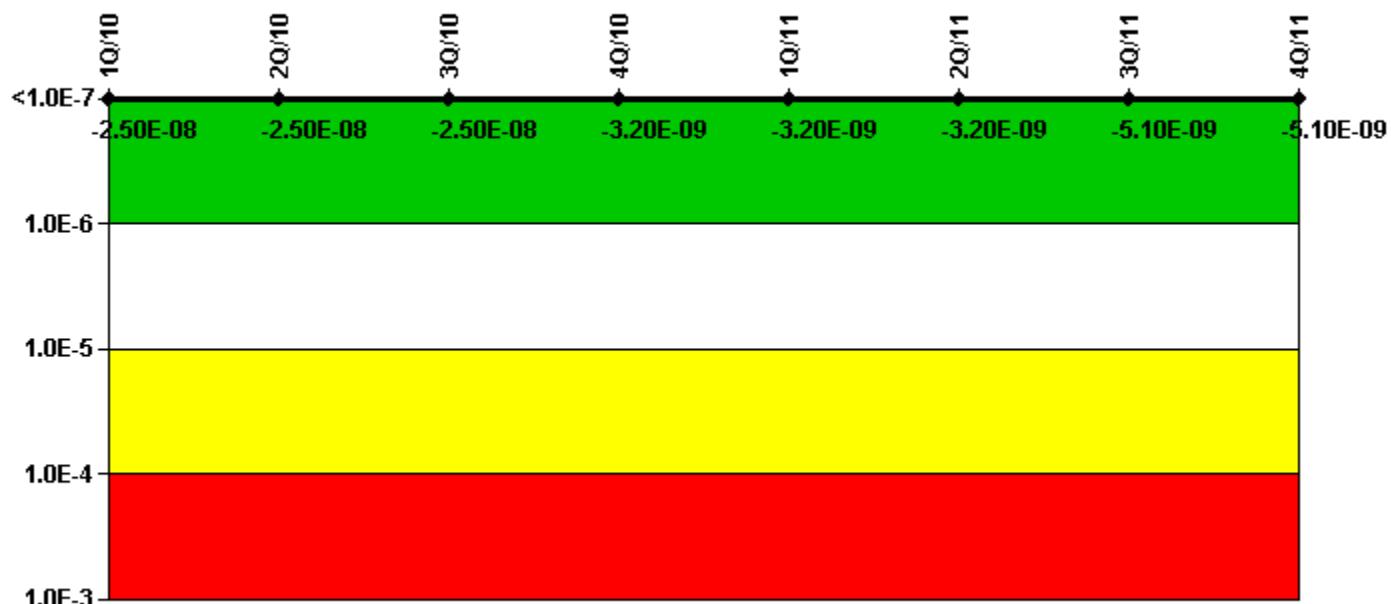
Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	3.49E-10	2.06E-10	5.69E-10	5.80E-10	6.00E-10	3.07E-10	-2.13E-10	-2.39E-10
URI (Δ CDF)	8.16E-08	2.58E-08	2.58E-08	-2.99E-08	-2.99E-08	-2.99E-08	-3.11E-08	-3.11E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.20E-08	2.60E-08	2.60E-08	-2.90E-08	-2.90E-08	-3.00E-08	-3.10E-08	-3.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



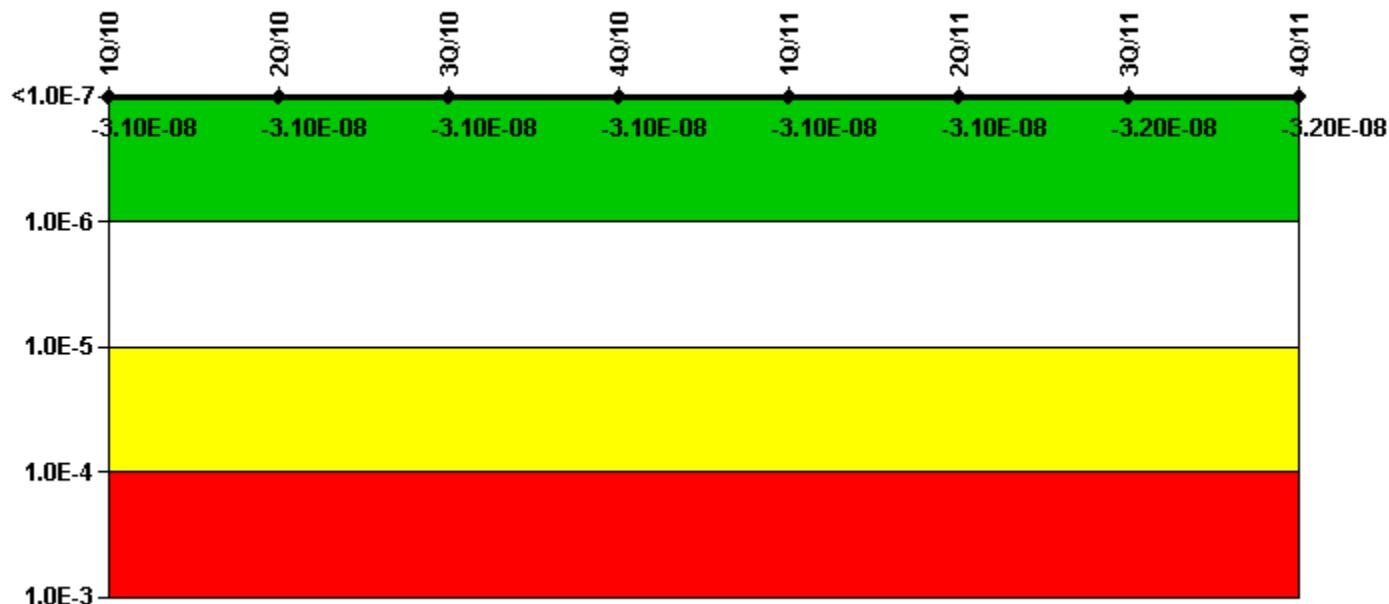
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	-2.66E-11							
URI (Δ CDF)	-2.49E-08	-2.49E-08	-2.49E-08	-3.19E-09	-3.19E-09	-3.19E-09	-5.04E-09	-5.04E-09
PLE	NO							
Indicator value	-2.50E-08	-2.50E-08	-2.50E-08	-3.20E-09	-3.20E-09	-3.20E-09	-5.10E-09	-5.10E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



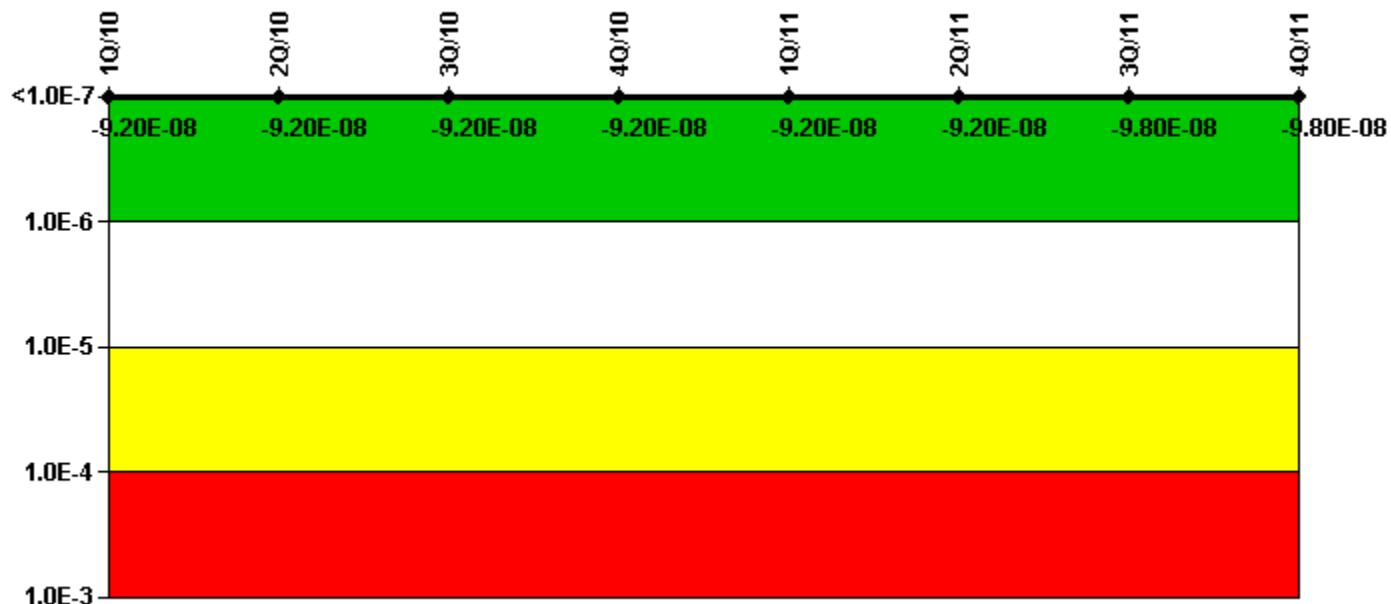
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	-2.85E-11							
URI (Δ CDF)	-3.05E-08	-3.05E-08	-3.05E-08	-3.12E-08	-3.12E-08	-3.12E-08	-3.20E-08	-3.20E-08
PLE	NO							
Indicator value	-3.10E-08	-3.10E-08	-3.10E-08	-3.10E-08	-3.10E-08	-3.10E-08	-3.20E-08	-3.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



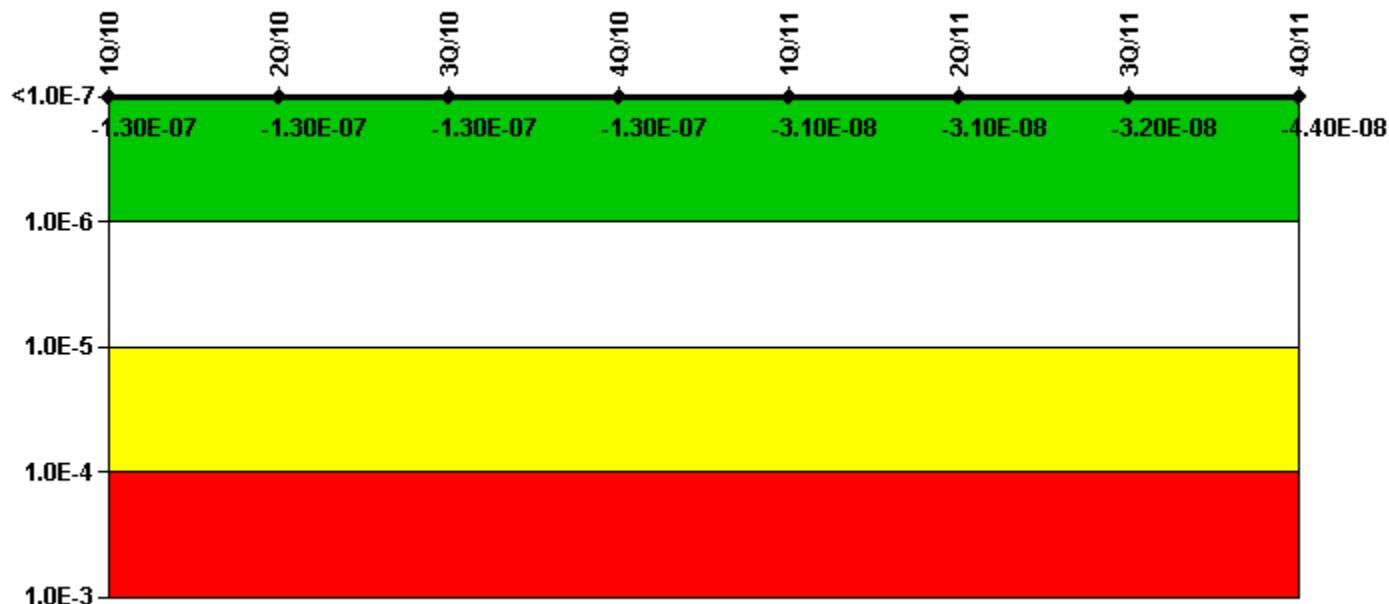
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	-3.23E-13							
URI (Δ CDF)	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.83E-08	-9.83E-08
PLE	NO							
Indicator value	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.80E-08	-9.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



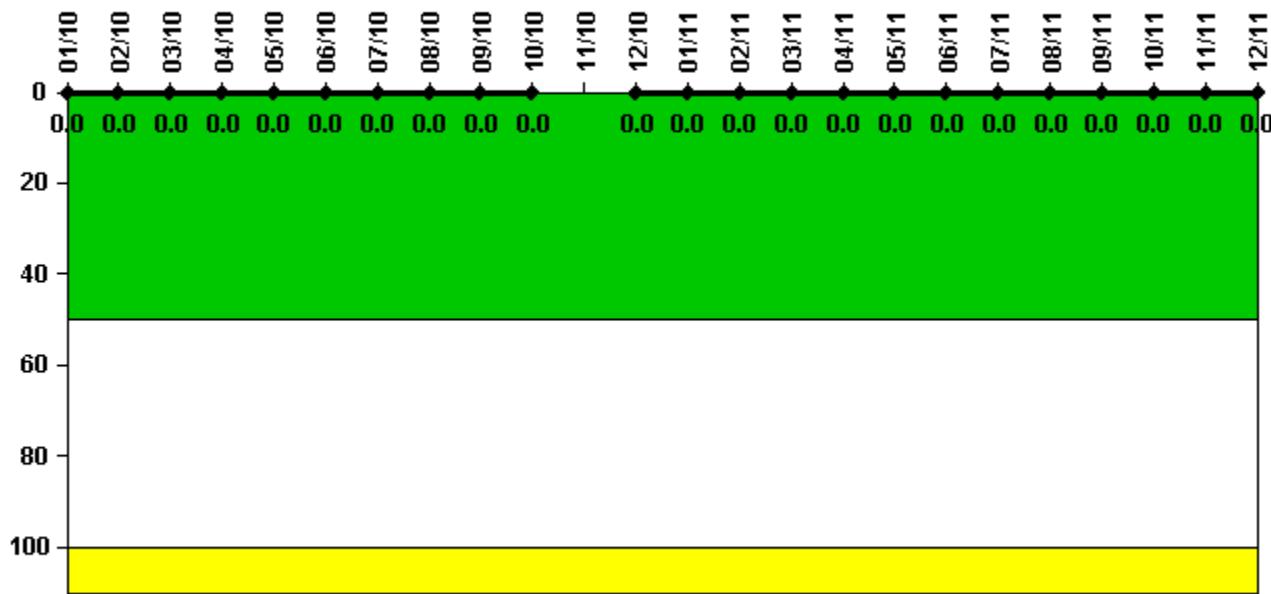
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	-2.20E-12	-6.80E-12	-3.53E-11	-3.31E-11	8.50E-12	8.50E-12	2.08E-12	-1.29E-11
URI (Δ CDF)	-1.27E-07	-1.27E-07	-1.27E-07	-1.27E-07	-3.06E-08	-3.07E-08	-3.19E-08	-4.36E-08
PLE	NO							
Indicator value	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-3.10E-08	-3.10E-08	-3.20E-08	-4.40E-08

Licensee Comments: none

Reactor Coolant System Activity



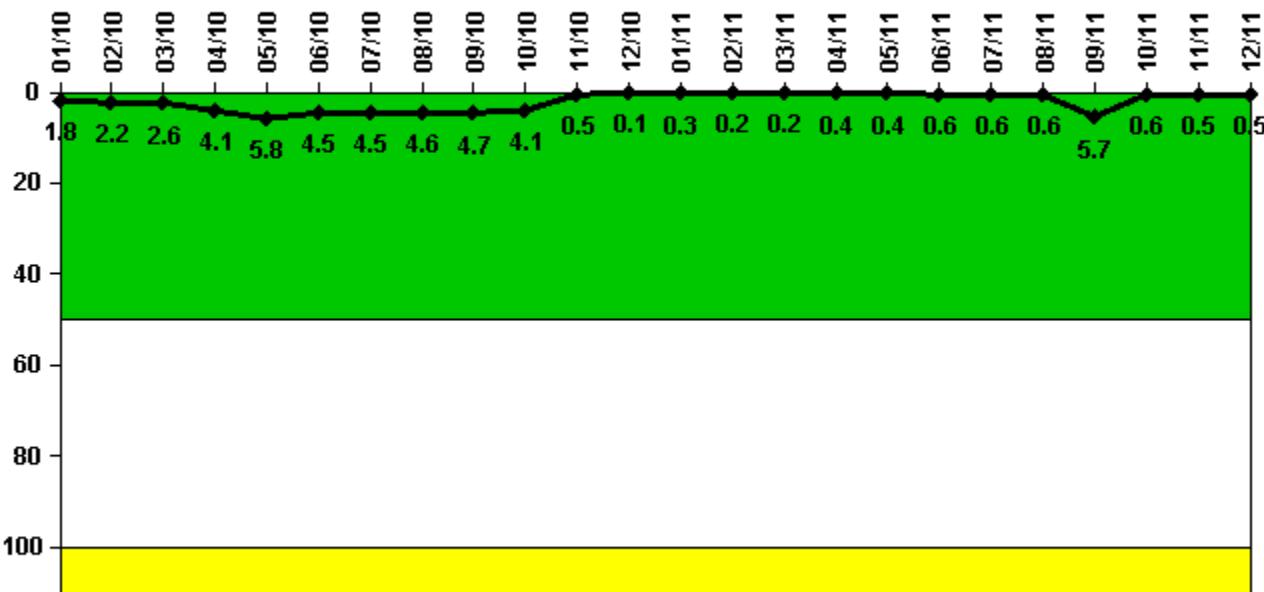
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum activity	0.000151	0.000164	0.000162	0.000163	0.000180	0.000171	0.000178	0.000178	0.000205	0.000350	N/A	0.000168
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	N/A	0
Reactor Coolant System Activity	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum activity	0.000094	0.000098	0.000100	0.000146	0.000152	0.000167	0.000163	0.000167	0.000170	0.000188	0.000190	0.000203
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



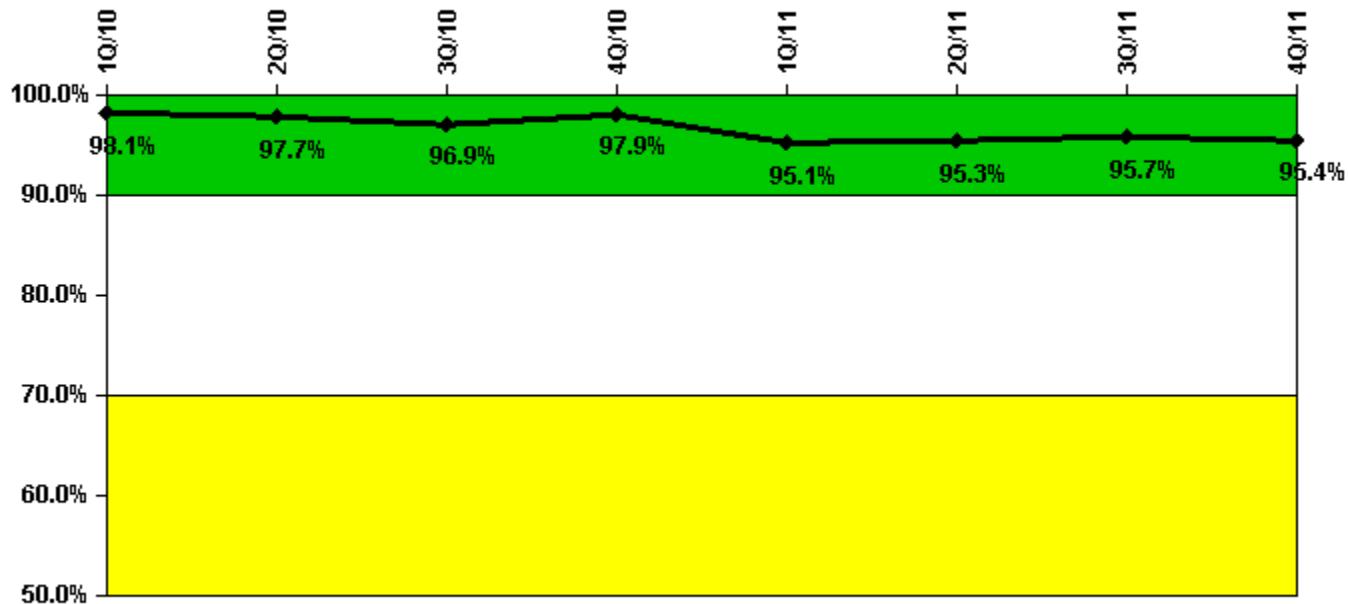
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum leakage	0.201	0.243	0.291	0.447	0.636	0.500	0.497	0.502	0.515	0.448	0.050	0.016
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	1.8	2.2	2.6	4.1	5.8	4.5	4.5	4.6	4.7	4.1	0.5	0.1
Reactor Coolant System Leakage	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum leakage	0.038	0.027	0.025	0.041	0.048	0.061	0.062	0.068	0.622	0.066	0.056	0.056
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.3	0.2	0.2	0.4	0.4	0.6	0.6	0.6	5.7	0.6	0.5	0.5

Licensee Comments: none

Drill/Exercise Performance



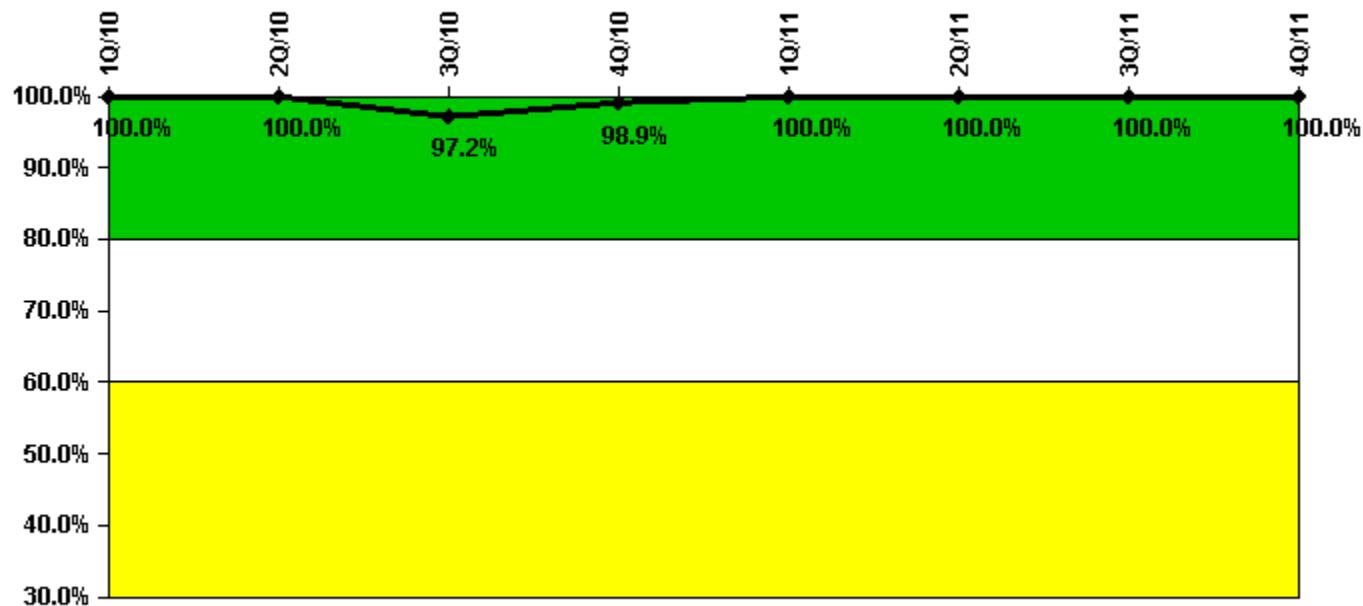
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful opportunities	12.0	26.0	29.0	19.0	43.0	16.0	41.0	0
Total opportunities	12.0	28.0	29.0	19.0	50.0	16.0	41.0	0
Indicator value	98.1%	97.7%	96.9%	97.9%	95.1%	95.3%	95.7%	95.4%

Licensee Comments: none

ERO Drill Participation



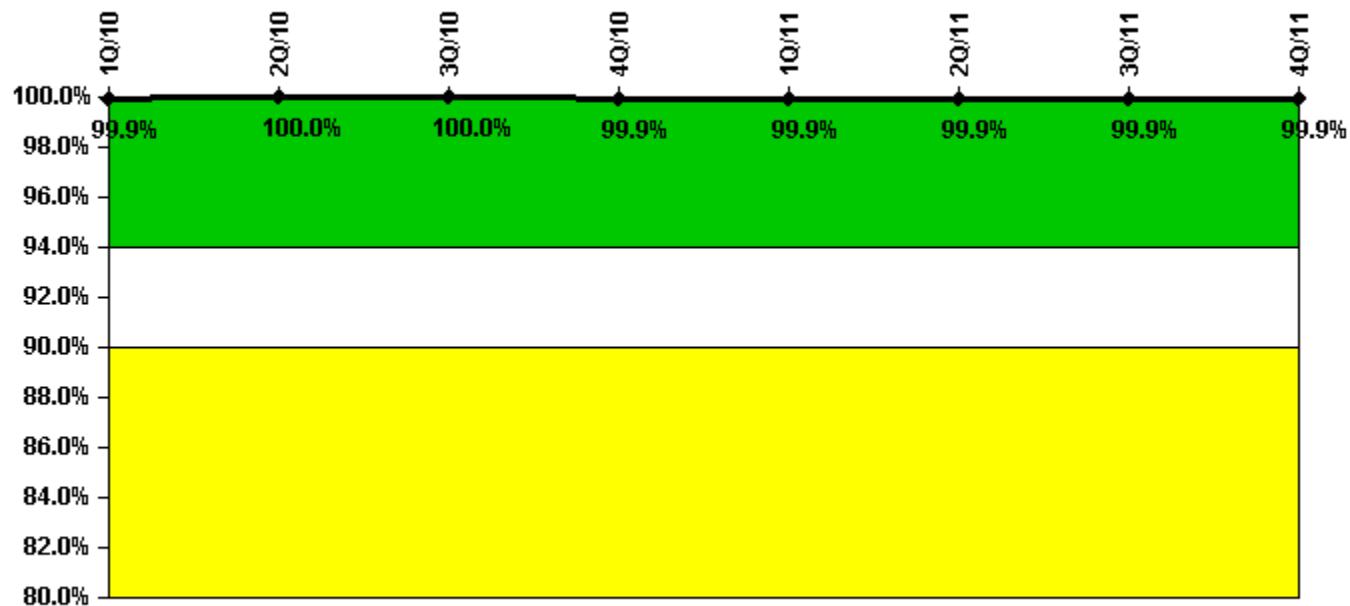
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Participating Key personnel	95.0	96.0	103.0	94.0	92.0	92.0	91.0	91.0
Total Key personnel	95.0	96.0	106.0	95.0	92.0	92.0	91.0	91.0
Indicator value	100.0%	100.0%	97.2%	98.9%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



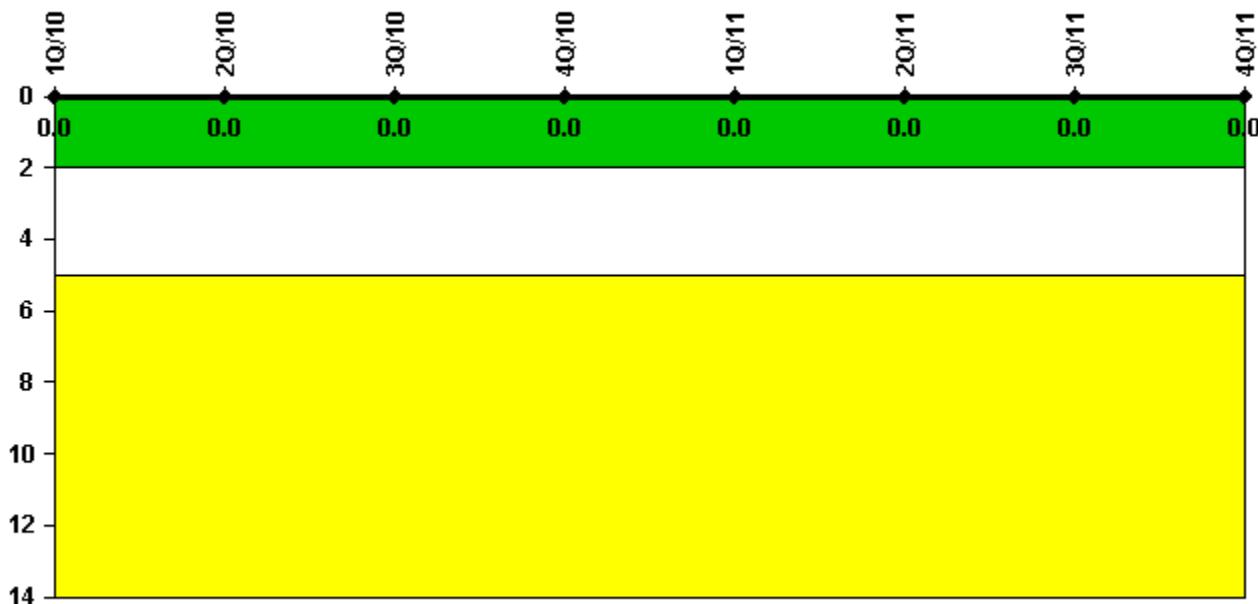
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful siren-tests	1119	1119	1118	1118	1119	1117	1120	1120
Total sirens-tests	1119	1119	1119	1120	1120	1119	1120	1120
Indicator value	99.9%	100.0%	100.0%	99.9%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



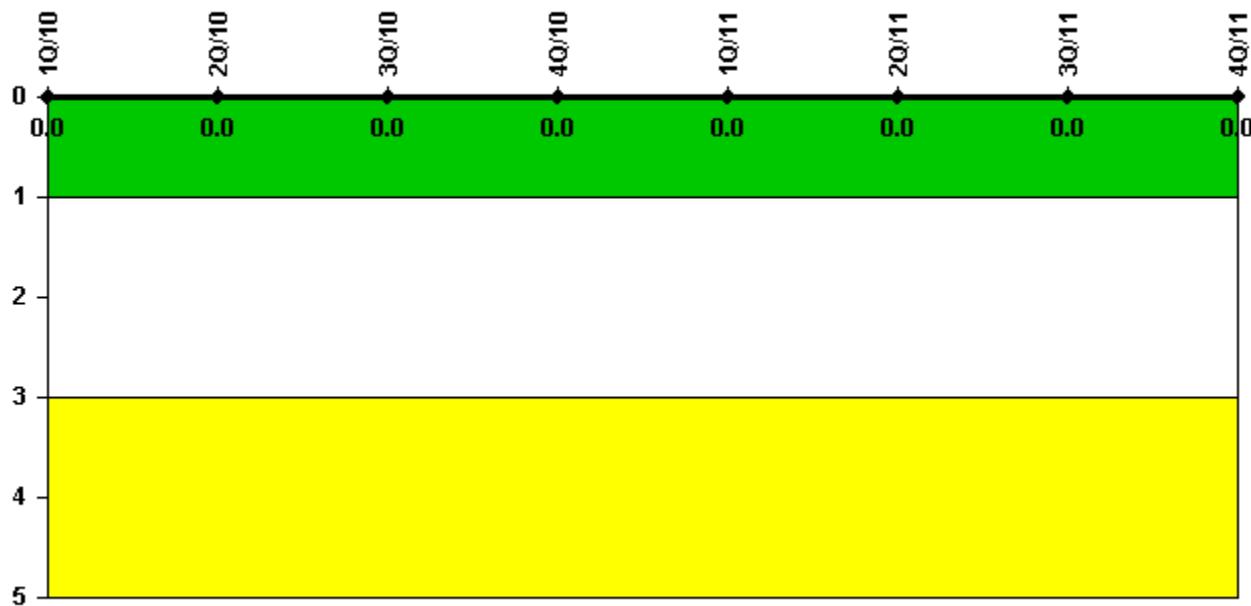
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

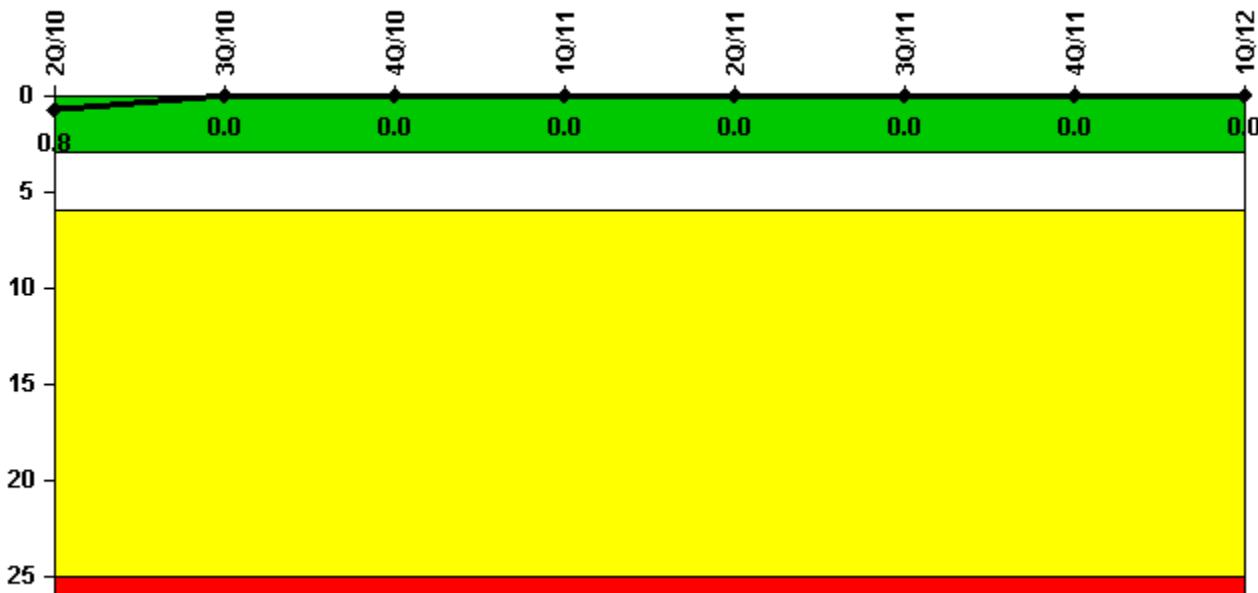
Security information not publicly available.

D.C. Cook 2

1Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



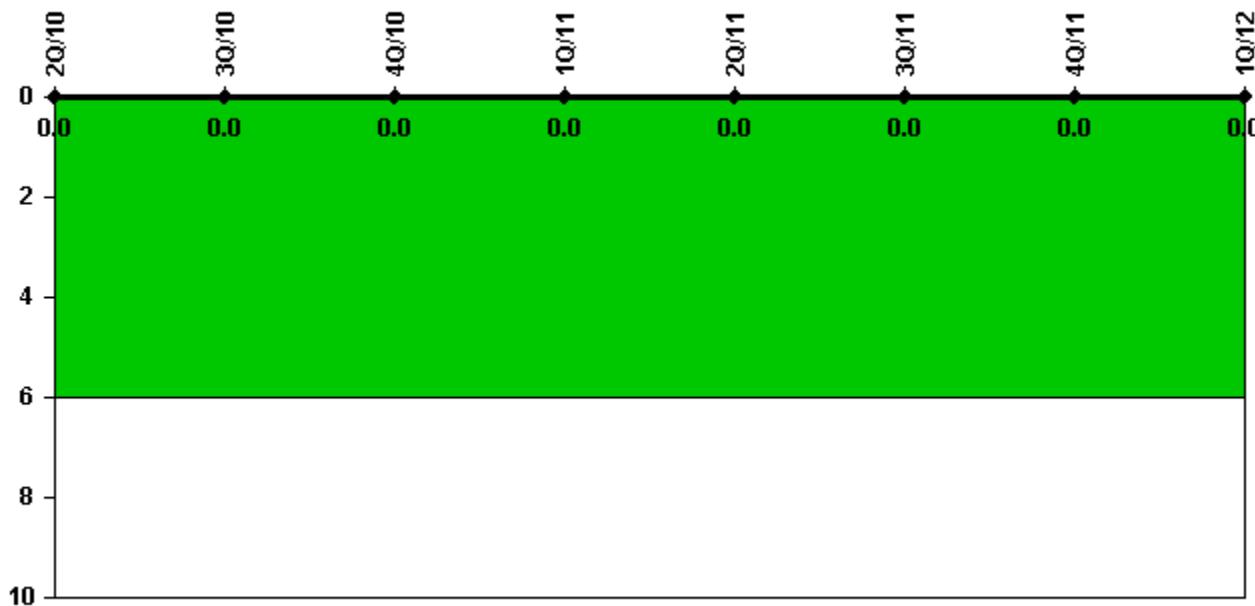
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	767.4	2159.0	2184.0	2208.0	2209.0	1919.0
Indicator value	0.8	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



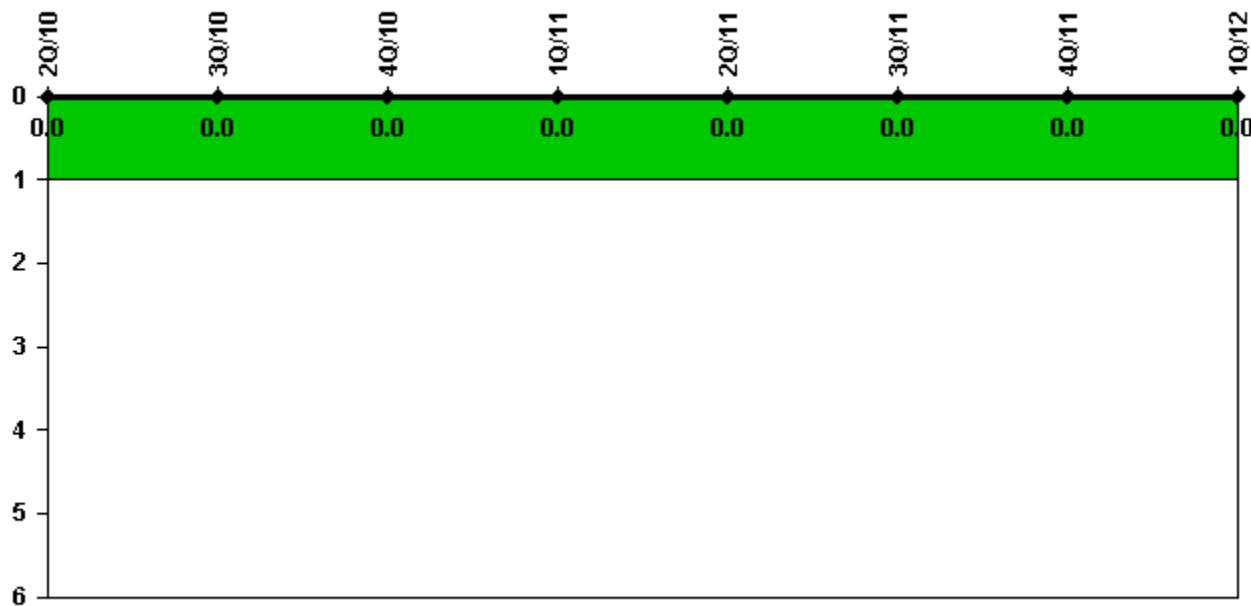
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	767.4	2159.0	2184.0	2208.0	2209.0	1919.0
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



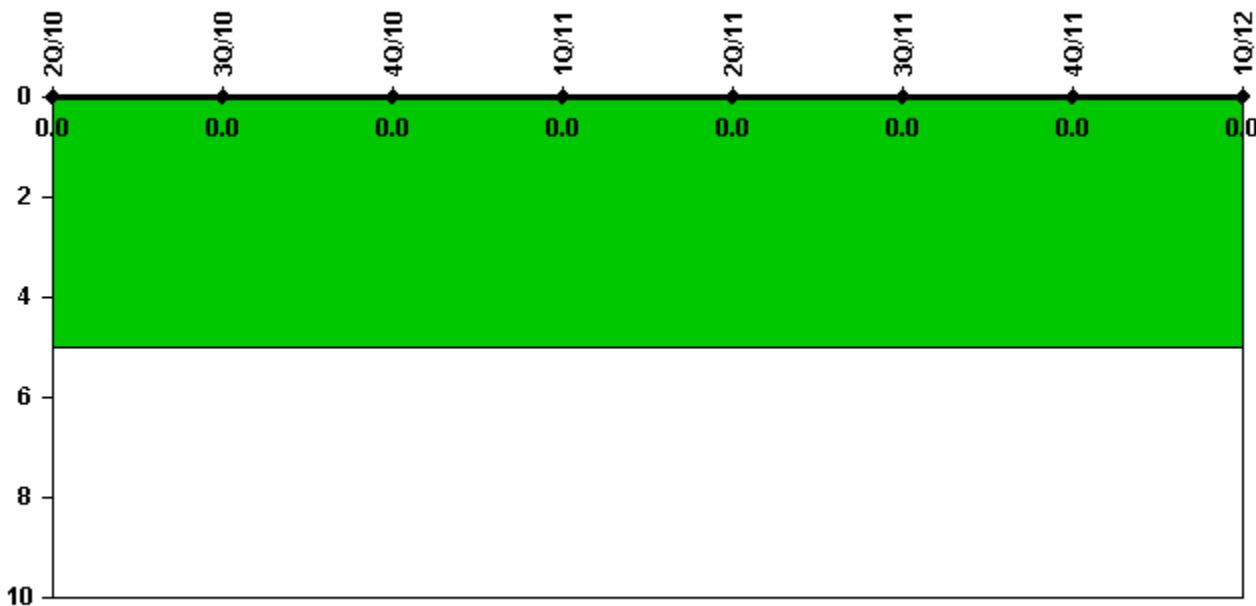
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0							

Licensee Comments: none

Safety System Functional Failures (PWR)



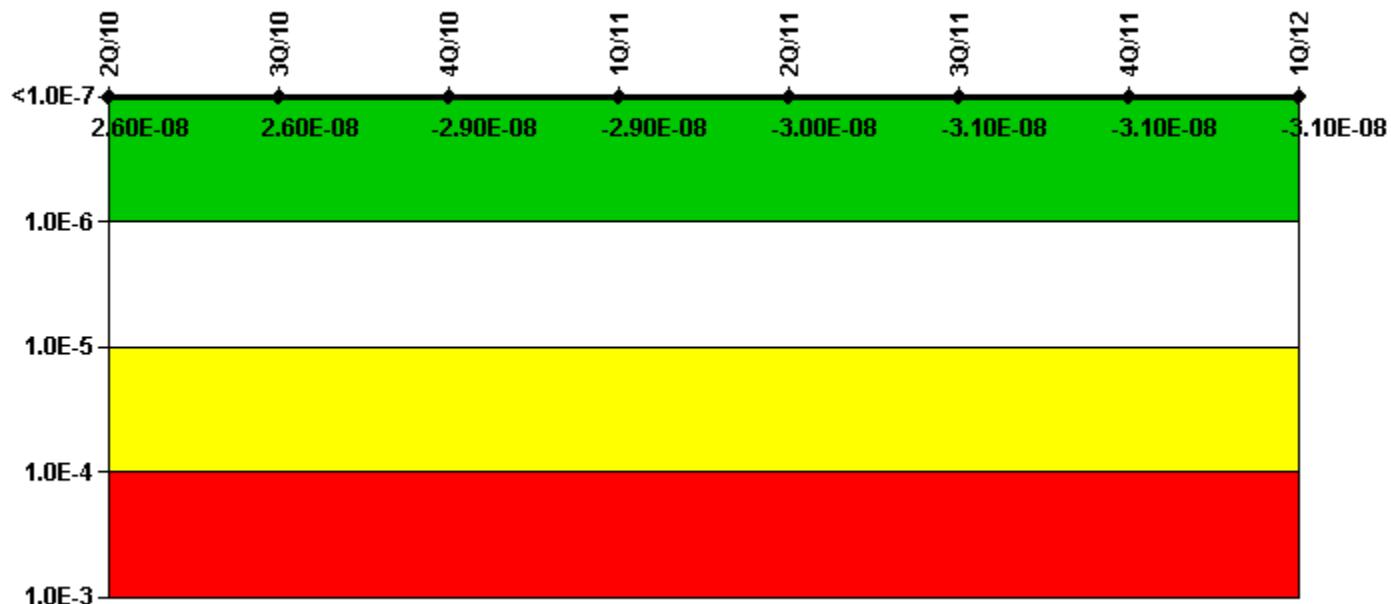
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



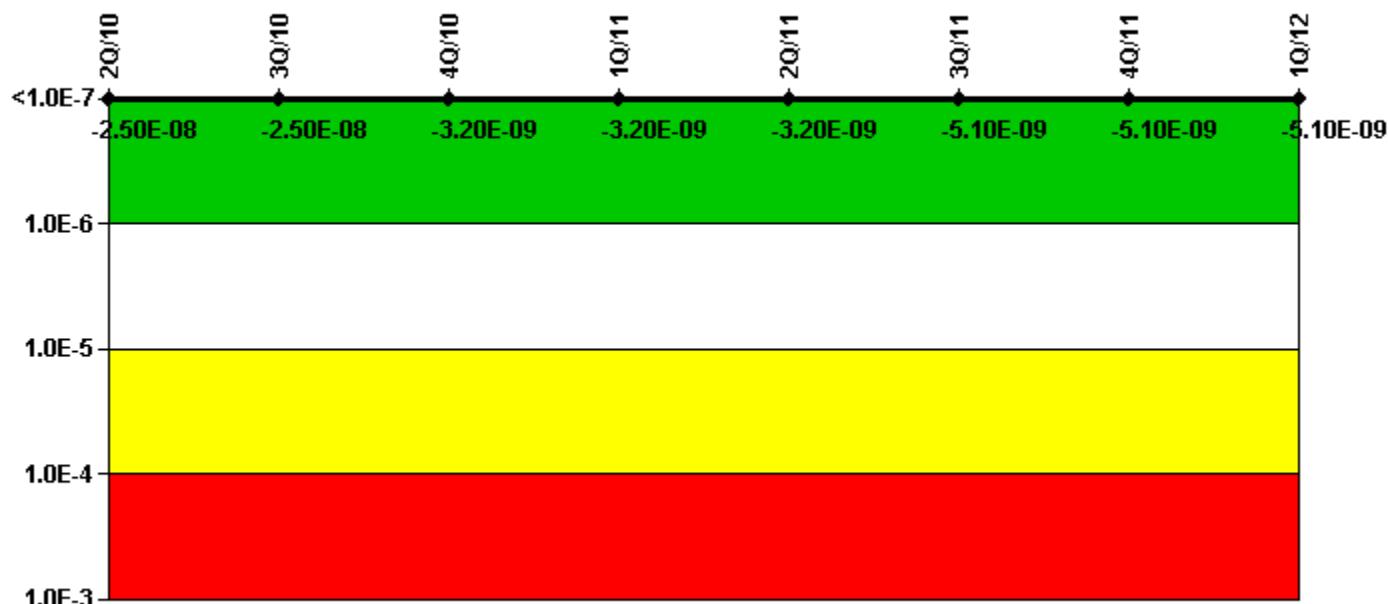
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	2.06E-10	5.69E-10	5.80E-10	6.00E-10	3.07E-10	-2.13E-10	-2.39E-10	-2.32E-10
URI (Δ CDF)	2.58E-08	2.58E-08	-2.99E-08	-2.99E-08	-2.99E-08	-3.11E-08	-3.11E-08	-3.11E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.60E-08	2.60E-08	-2.90E-08	-2.90E-08	-3.00E-08	-3.10E-08	-3.10E-08	-3.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



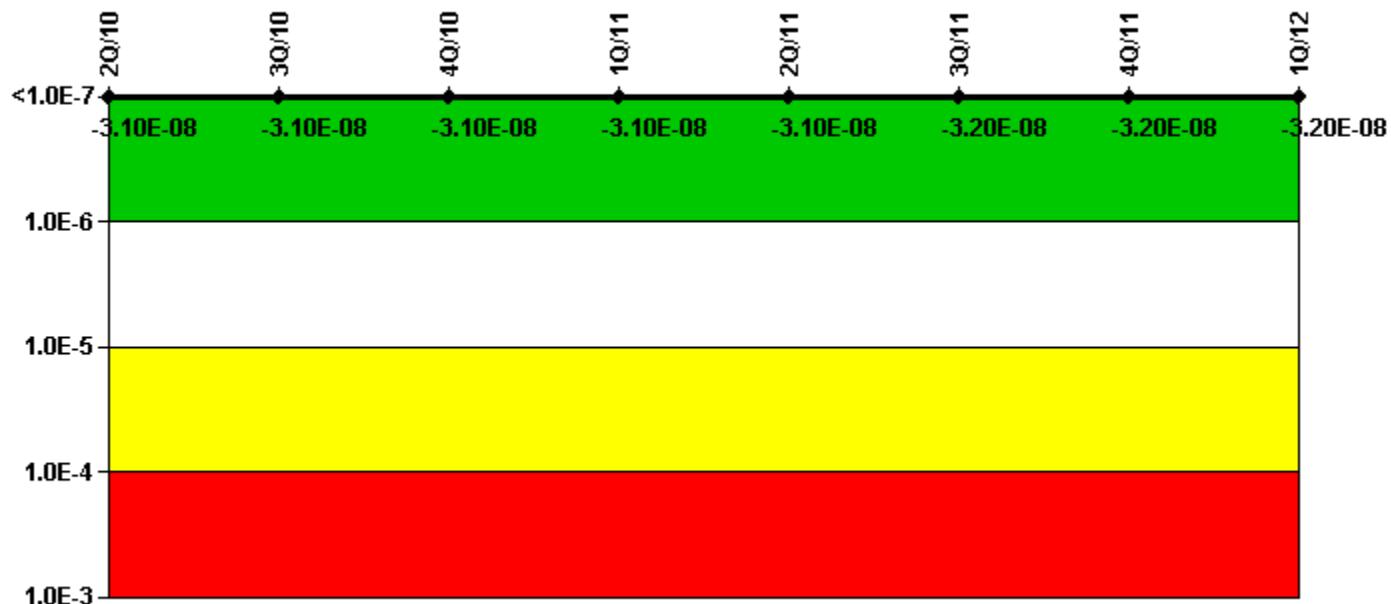
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	-2.66E-11							
URI (Δ CDF)	-2.49E-08	-2.49E-08	-3.19E-09	-3.19E-09	-3.19E-09	-5.04E-09	-5.04E-09	-5.04E-09
PLE	NO							
Indicator value	-2.50E-08	-2.50E-08	-3.20E-09	-3.20E-09	-3.20E-09	-5.10E-09	-5.10E-09	-5.10E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



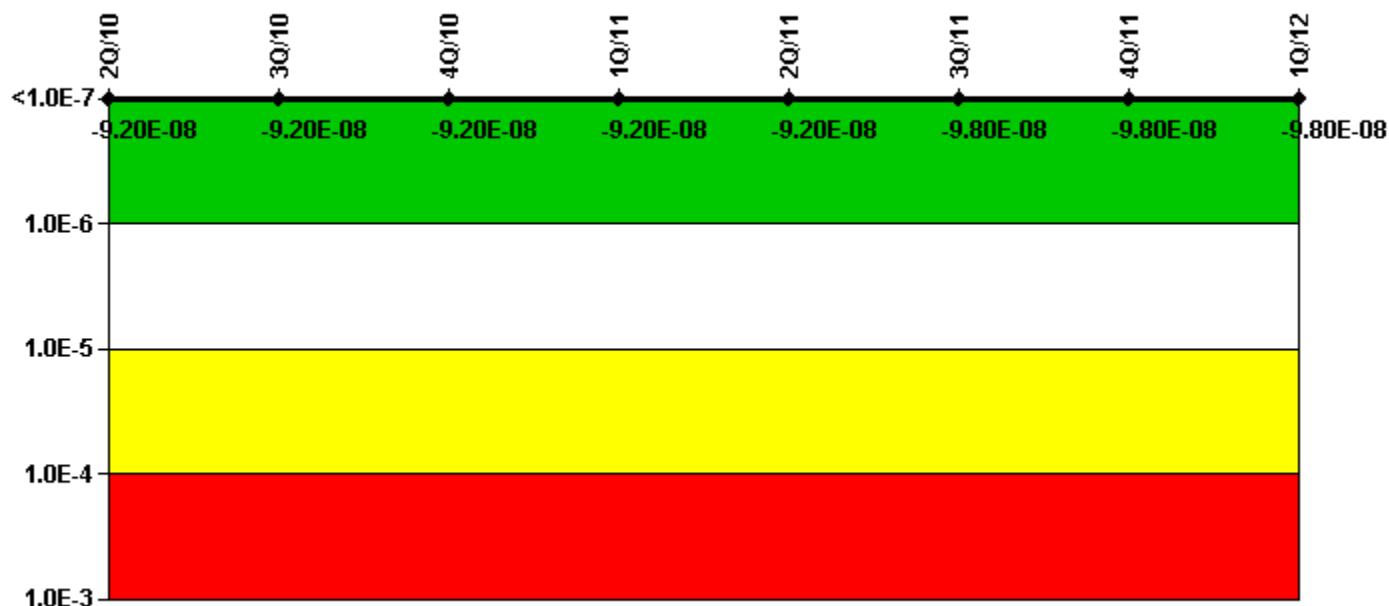
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	-2.85E-11	-2.70E-11						
URI (Δ CDF)	-3.05E-08	-3.05E-08	-3.12E-08	-3.12E-08	-3.12E-08	-3.20E-08	-3.20E-08	-3.20E-08
PLE	NO							
Indicator value	-3.10E-08	-3.10E-08	-3.10E-08	-3.10E-08	-3.10E-08	-3.20E-08	-3.20E-08	-3.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

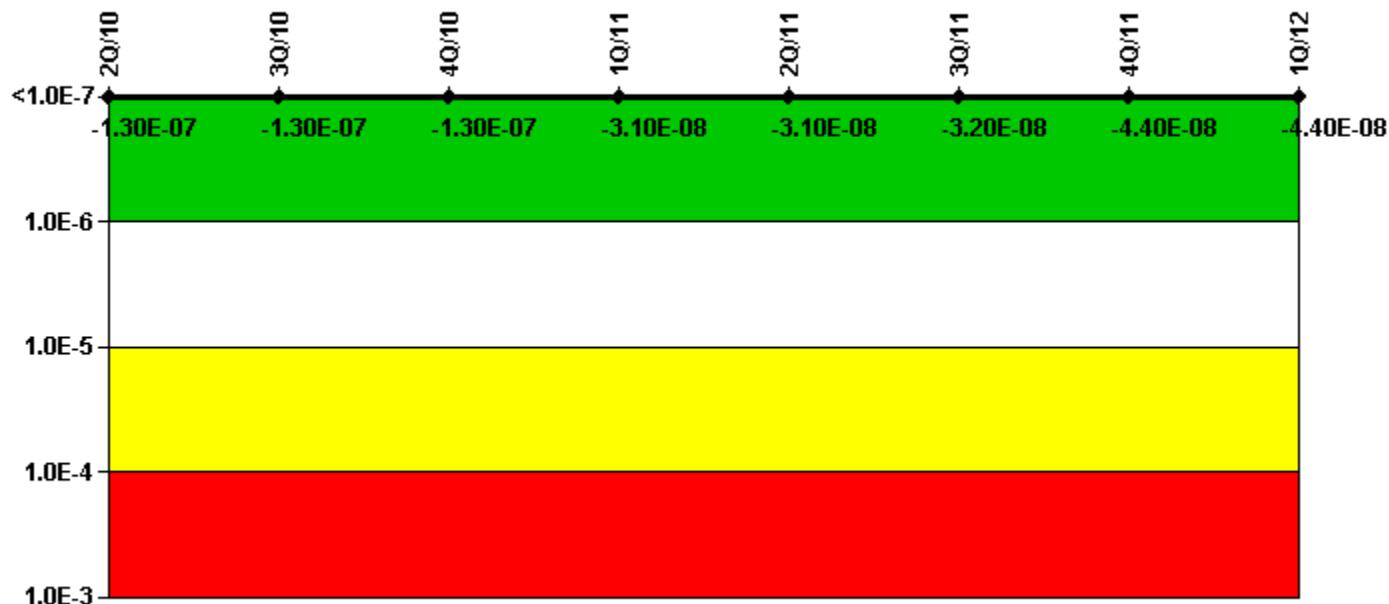
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	-3.23E-13							
URI (Δ CDF)	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.83E-08	-9.83E-08	-9.83E-08
PLE	NO							
Indicator value	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.80E-08	-9.80E-08	-9.80E-08

Licensee Comments:

1Q/12: March 31, 2012 test results for valve 2-CMO-429 are currently being evaluated to determine if a failure occurred per MSPI criteria. If it is determined that an MSPI equipment failure occurred, a change report will be submitted.

Mitigating Systems Performance Index, Cooling Water Systems



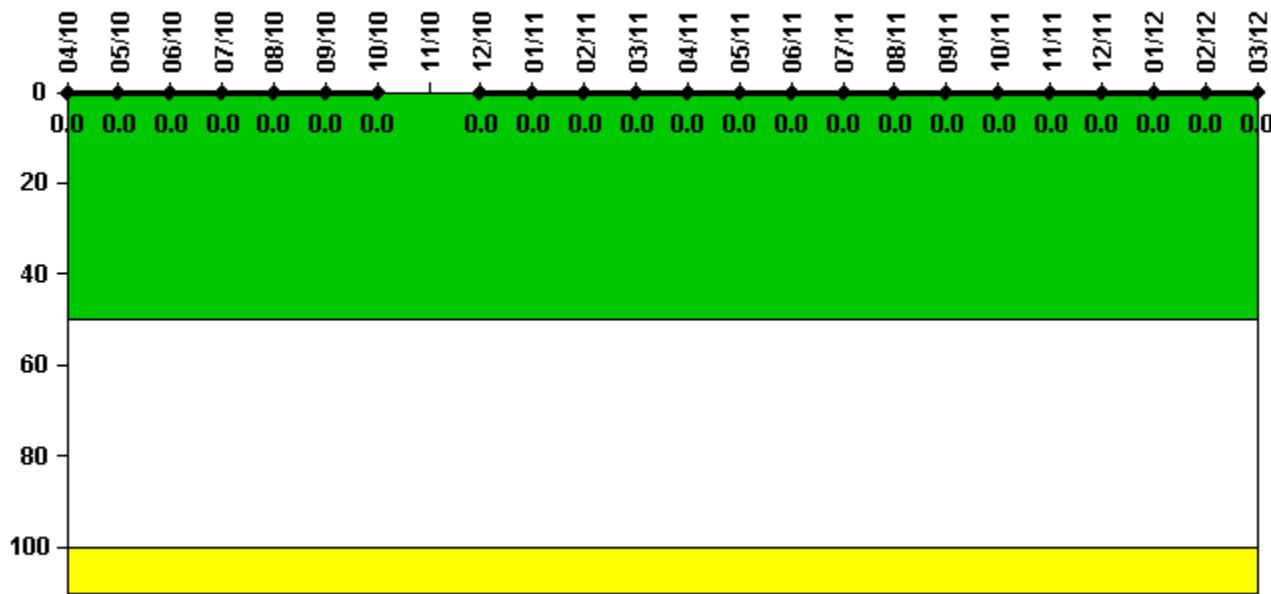
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	-6.80E-12	-3.53E-11	-3.31E-11	8.50E-12	8.50E-12	2.08E-12	-1.29E-11	3.37E-11
URI (Δ CDF)	-1.27E-07	-1.27E-07	-1.27E-07	-3.06E-08	-3.07E-08	-3.19E-08	-4.36E-08	-4.36E-08
PLE	NO							
Indicator value	-1.30E-07	-1.30E-07	-1.30E-07	-3.10E-08	-3.10E-08	-3.20E-08	-4.40E-08	-4.40E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

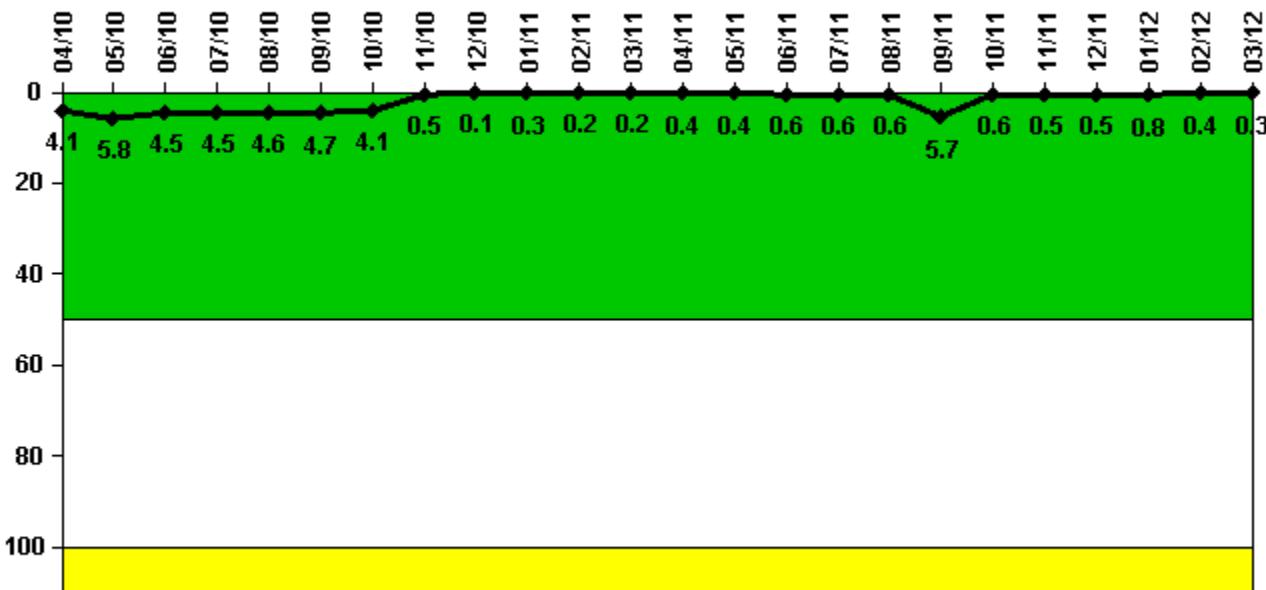
Notes

Reactor Coolant System Activity	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum activity	0.000163	0.000180	0.000171	0.000178	0.000178	0.000205	0.000350	N/A	0.000168	0.000094	0.000098	0.000100
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	N/A	0	0	0	0
Reactor Coolant System Activity	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum activity	0.000146	0.000152	0.000167	0.000163	0.000167	0.000170	0.000188	0.000190	0.000203	0.000200	0.000211	0.000152
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments:

12/10: Unit 2 remained shut down through November for a refueling outage. No RCS activity data is available for that month.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

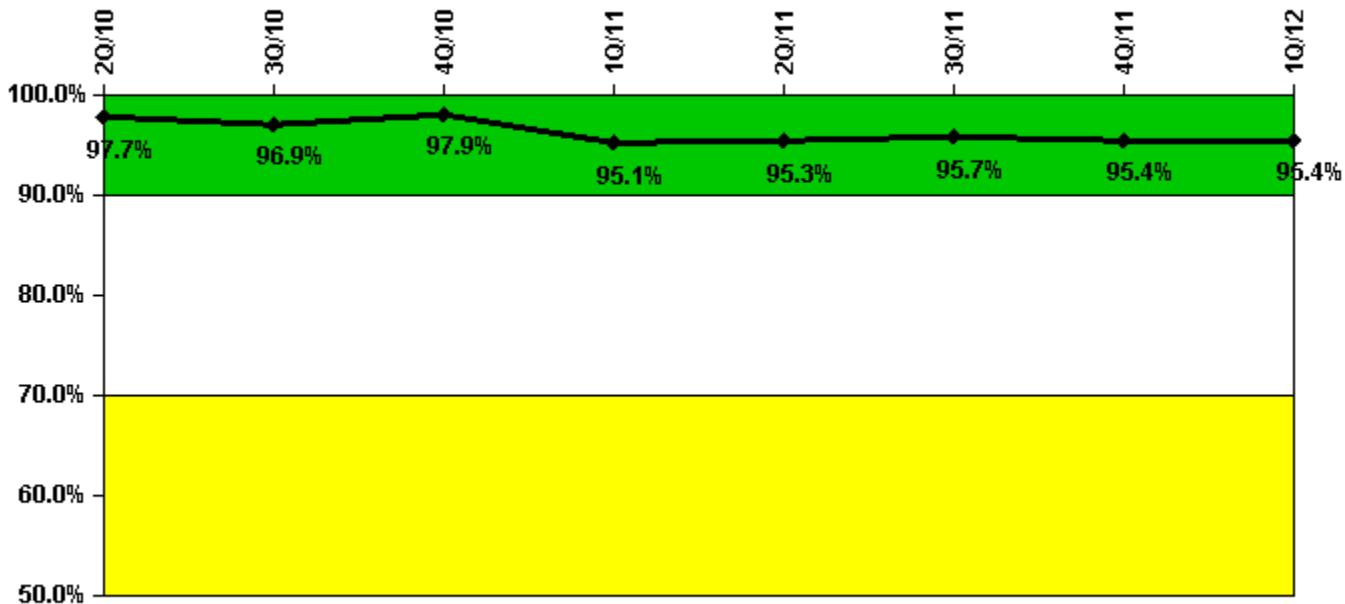
Notes

Reactor Coolant System Leakage	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum leakage	0.447	0.636	0.500	0.497	0.502	0.515	0.448	0.050	0.016	0.038	0.027	0.025
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	4.1	5.8	4.5	4.5	4.6	4.7	4.1	0.5	0.1	0.3	0.2	0.2
Reactor Coolant System Leakage	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum leakage	0.041	0.048	0.061	0.062	0.068	0.622	0.066	0.056	0.056	0.085	0.045	0.036
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.4	0.4	0.6	0.6	0.6	5.7	0.6	0.5	0.5	0.8	0.4	0.3

Licensee Comments:

9/11: Elevated (0.6 gpm) RCS leak rate in September due to apparent packing leak occurring during pressurizer PORV block valve stroke test on September 22; leak was isolated the following day.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

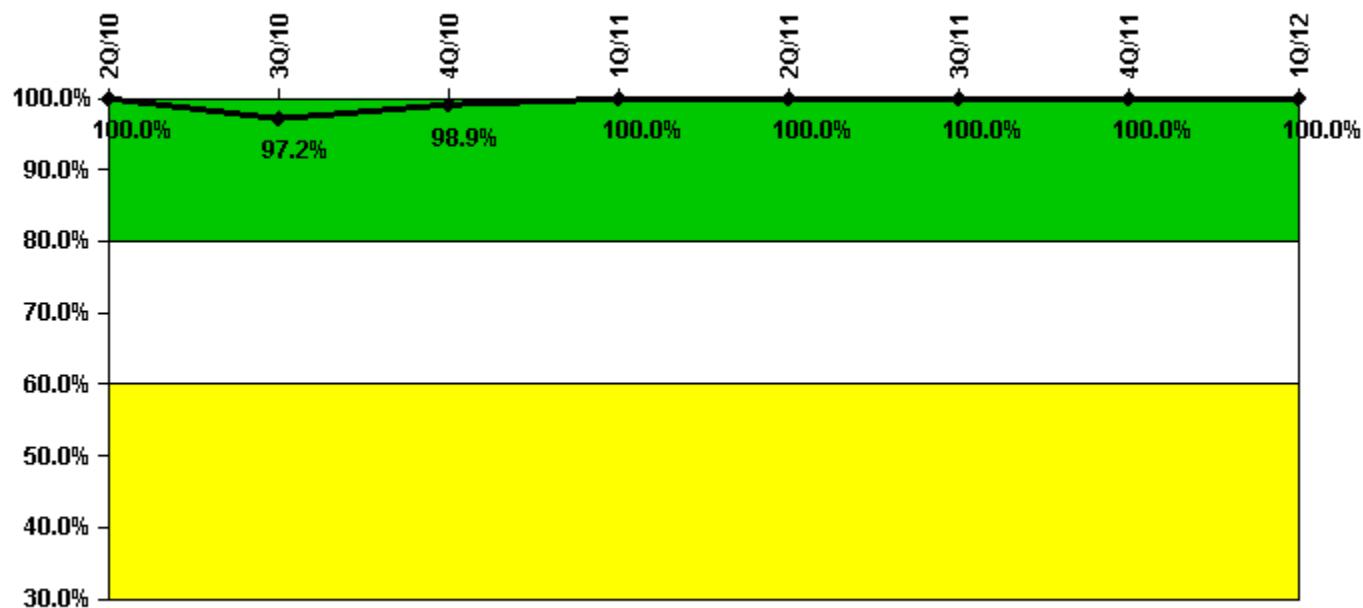
Notes

Drill/Exercise Performance	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful opportunities	26.0	29.0	19.0	43.0	16.0	41.0	0	34.0
Total opportunities	28.0	29.0	19.0	50.0	16.0	41.0	0	35.0
Indicator value	97.7%	96.9%	97.9%	95.1%	95.3%	95.7%	95.4%	95.4%

Licensee Comments:

1Q/11: Previously submitted data for February 2011 was revised to correct an error in grading drill results. Data was changed from "19 of 21 successful" to "18 of 21 successful". This changes the first quarter 2011 total from "44 of 50 successful" to "43 of 50 successful". This change has no impact on performance indicator color.

ERO Drill Participation



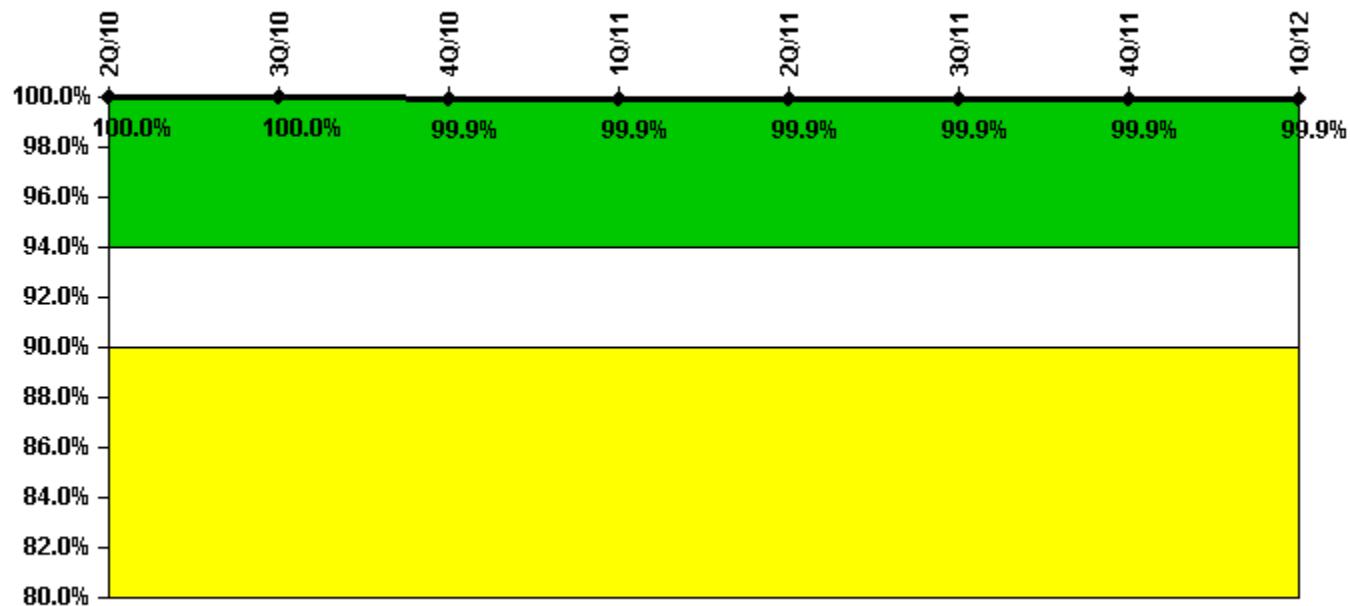
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Participating Key personnel	96.0	103.0	94.0	92.0	92.0	91.0	91.0	91.0
Total Key personnel	96.0	106.0	95.0	92.0	92.0	91.0	91.0	91.0
Indicator value	100.0%	97.2%	98.9%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



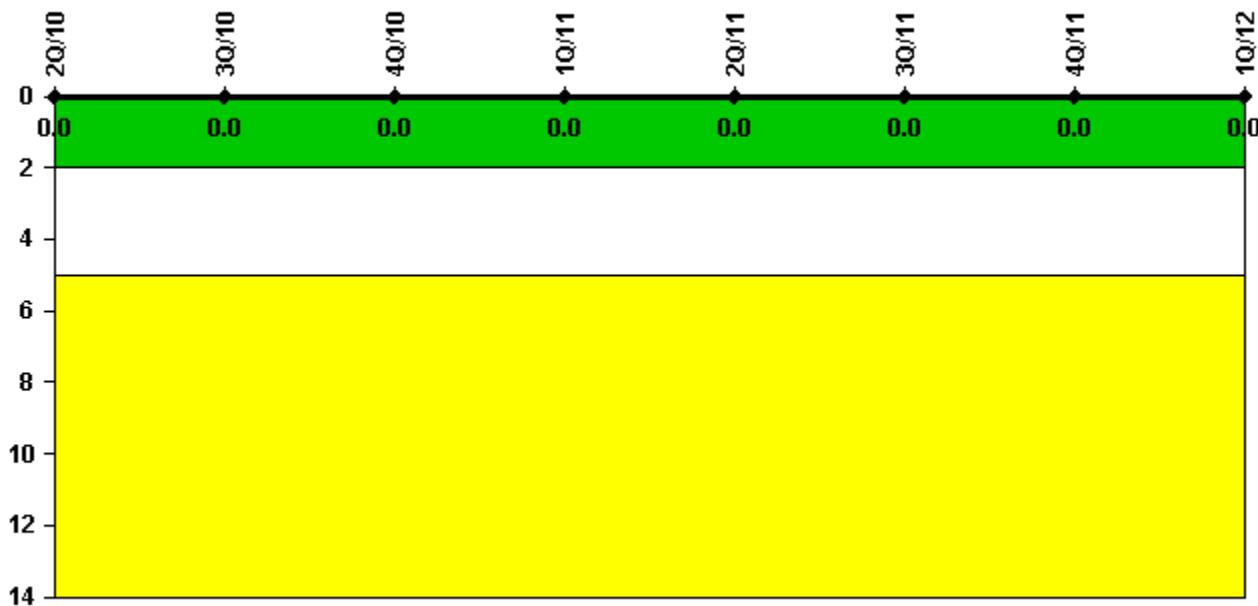
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful siren-tests	1119	1118	1118	1119	1117	1120	1120	1118
Total sirens-tests	1119	1119	1120	1120	1119	1120	1120	1120
Indicator value	100.0%	100.0%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



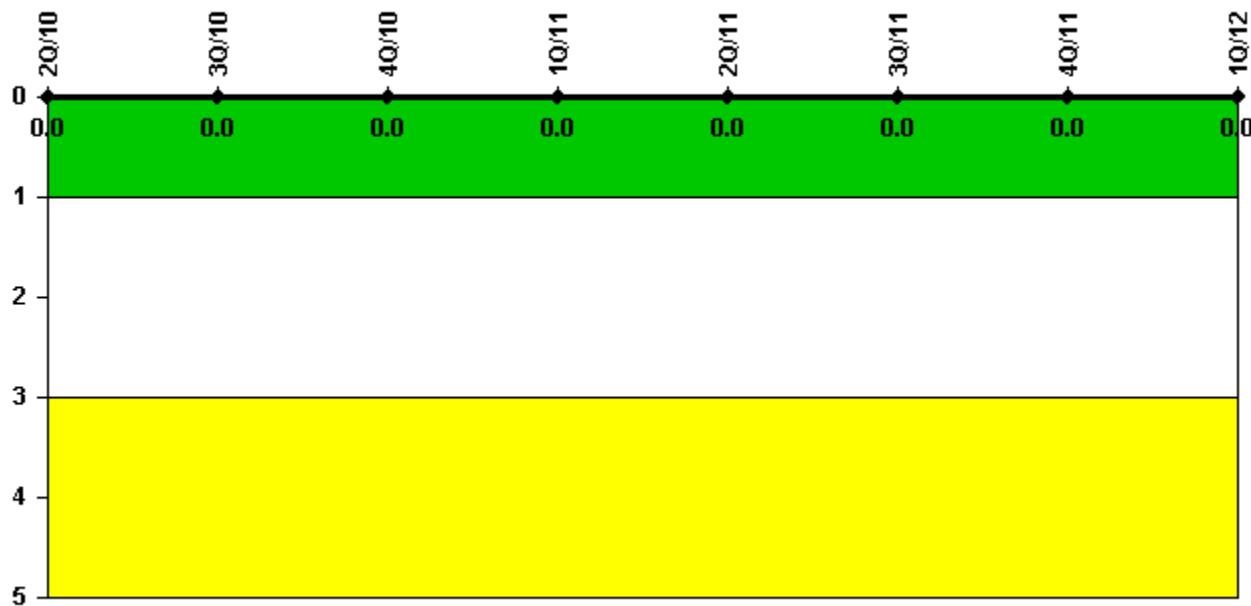
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Security](#) information not publicly available.

D.C. Cook 2

2Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

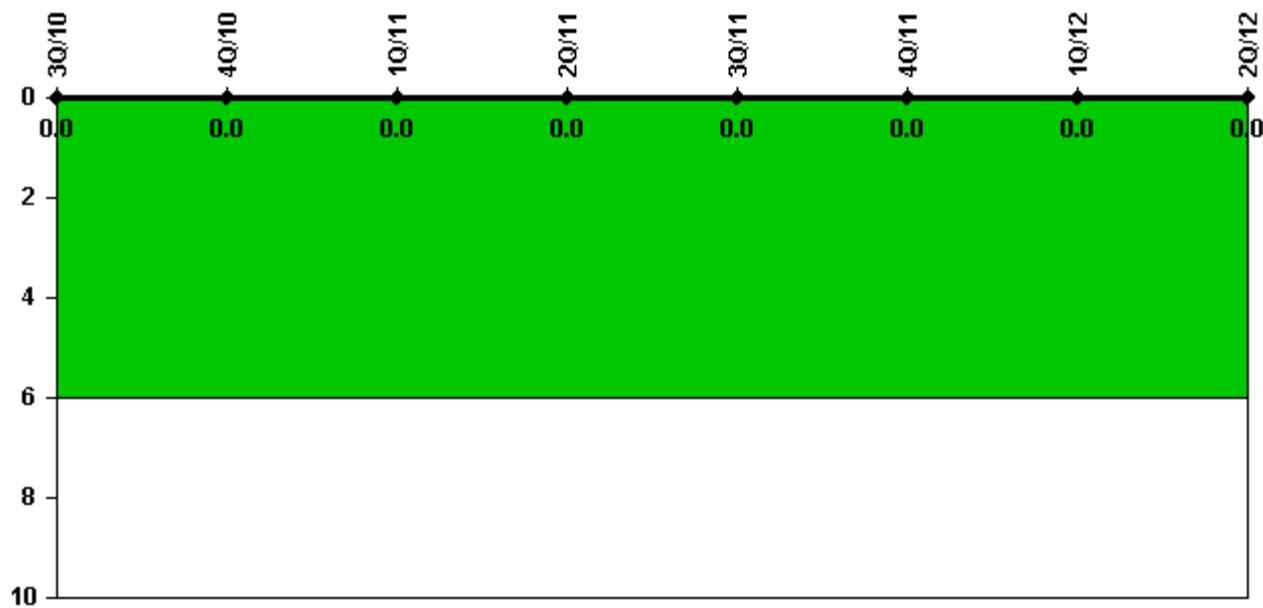
Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	2208.0	767.4	2159.0	2184.0	2208.0	2209.0	1919.0	1510.6
Indicator value	0	0	0	0	0	0	0	0.9

Licensee Comments:

2Q/12: On April 30, the reactor automatically tripped due to a main generator trip caused by an incorrect protective relay setting.

Unplanned Power Changes per 7000 Critical Hrs



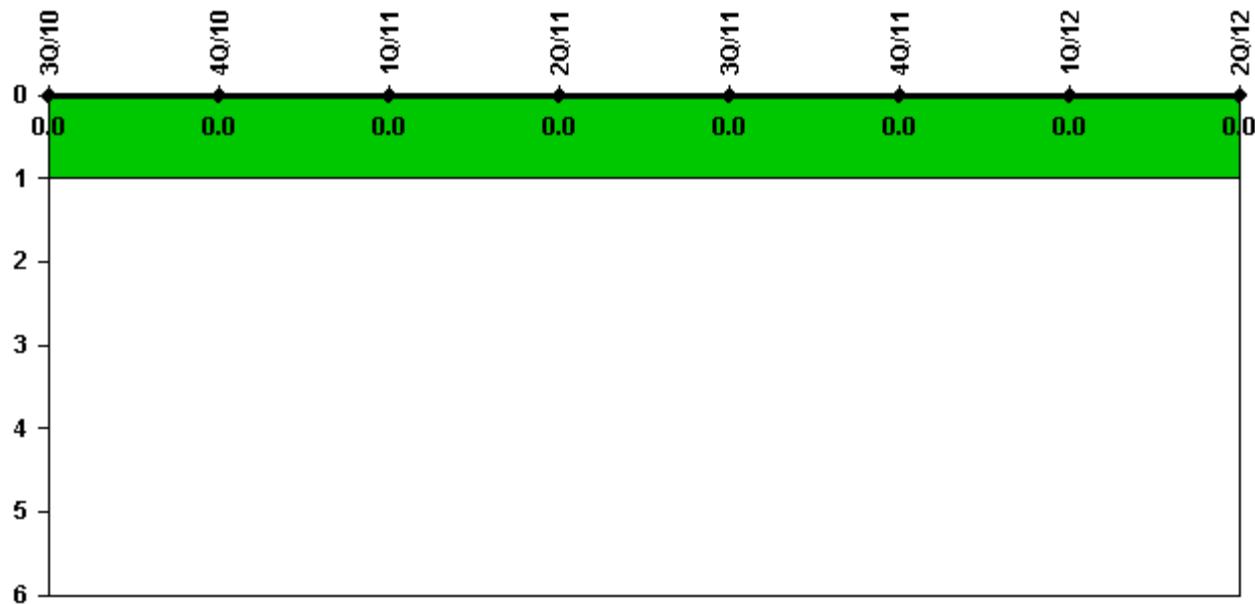
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	767.4	2159.0	2184.0	2208.0	2209.0	1919.0	1510.6
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



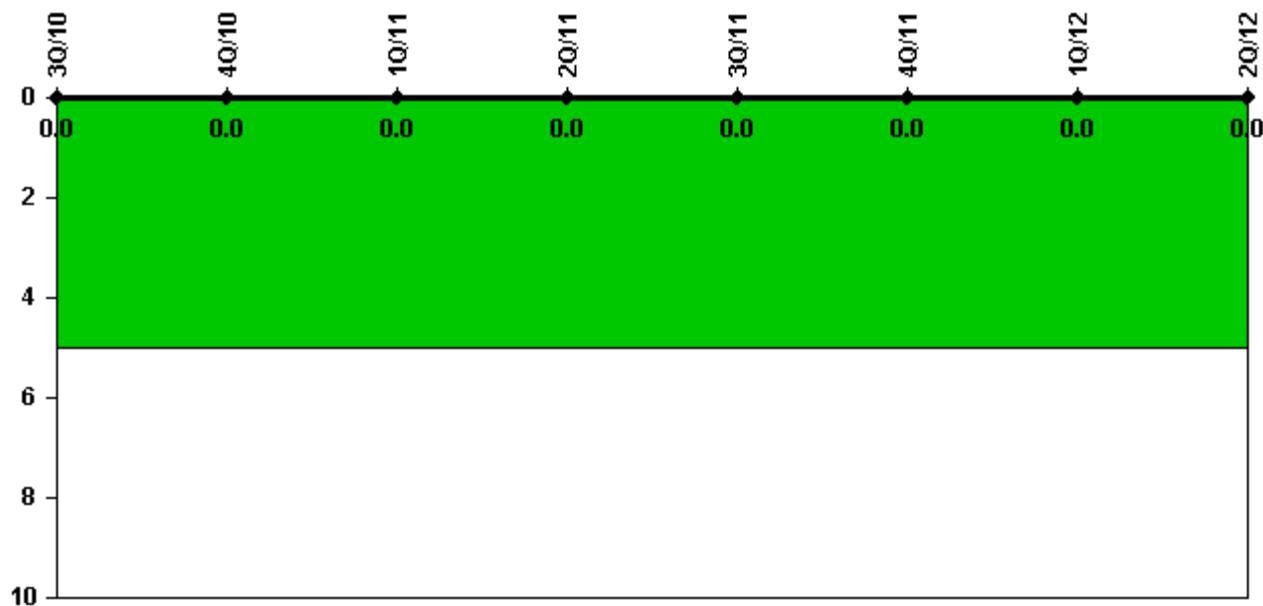
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0							

Licensee Comments: none

Safety System Functional Failures (PWR)



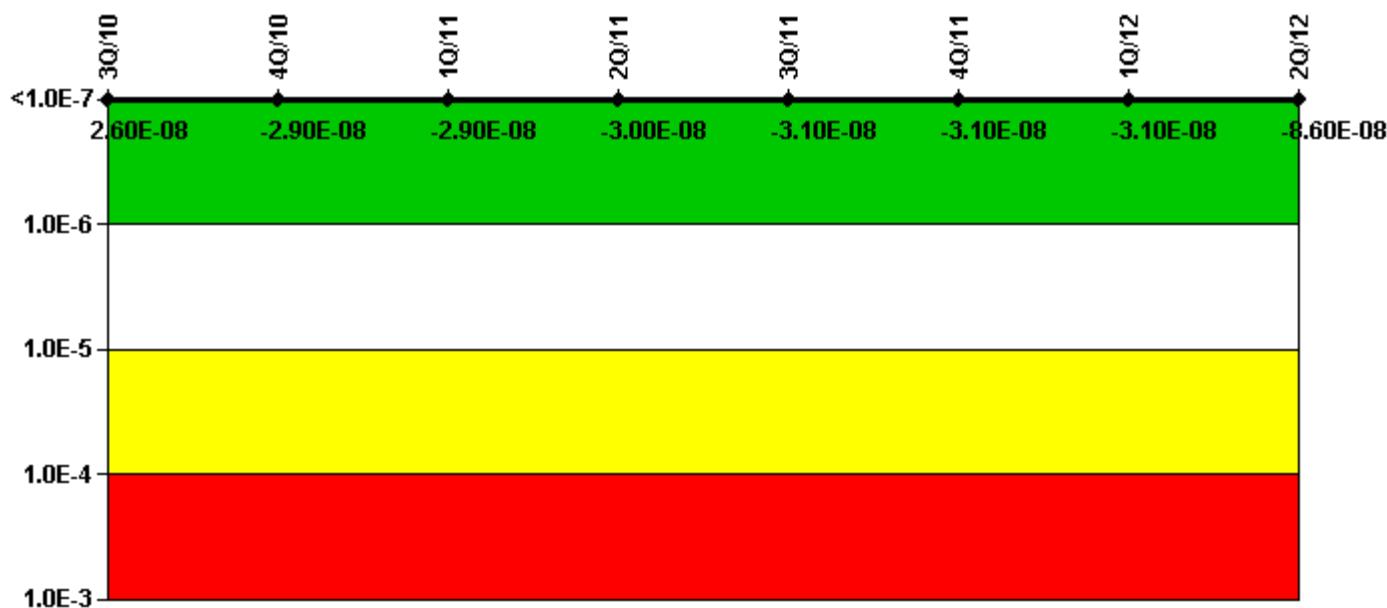
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



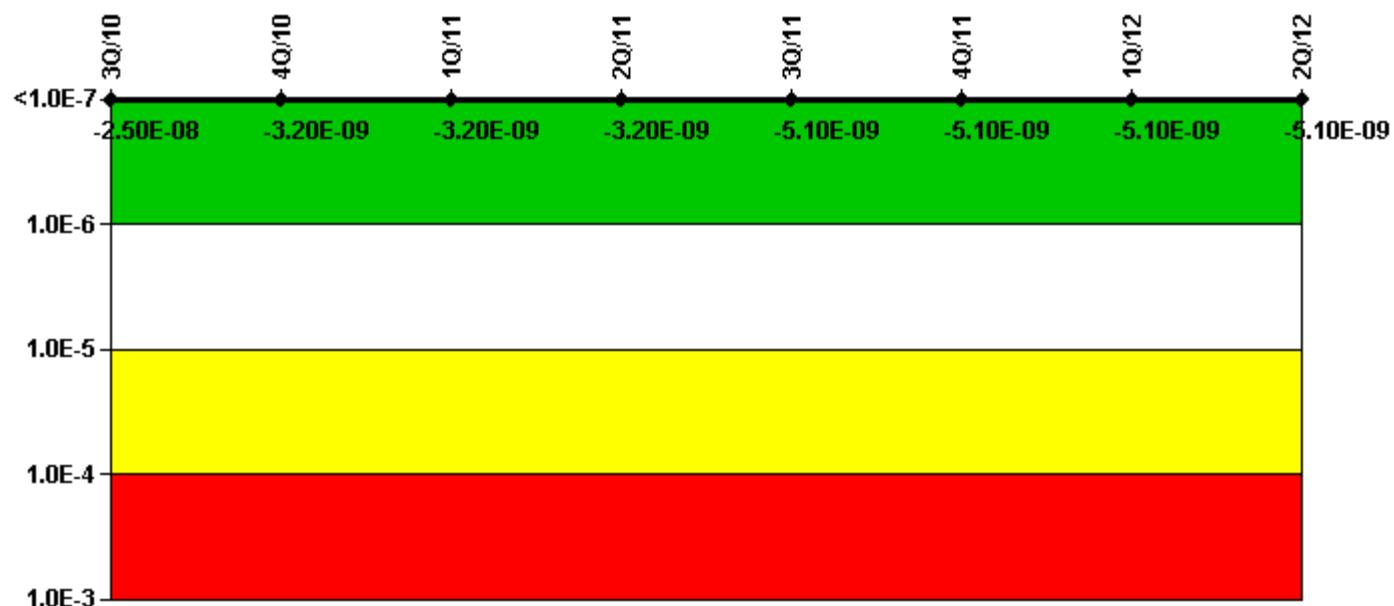
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	5.69E-10	5.80E-10	6.00E-10	3.07E-10	-2.13E-10	-2.39E-10	-2.32E-10	2.06E-10
URI (ΔCDF)	2.58E-08	-2.99E-08	-2.99E-08	-2.99E-08	-3.11E-08	-3.11E-08	-3.11E-08	-8.64E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.60E-08	-2.90E-08	-2.90E-08	-3.00E-08	-3.10E-08	-3.10E-08	-3.10E-08	-8.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



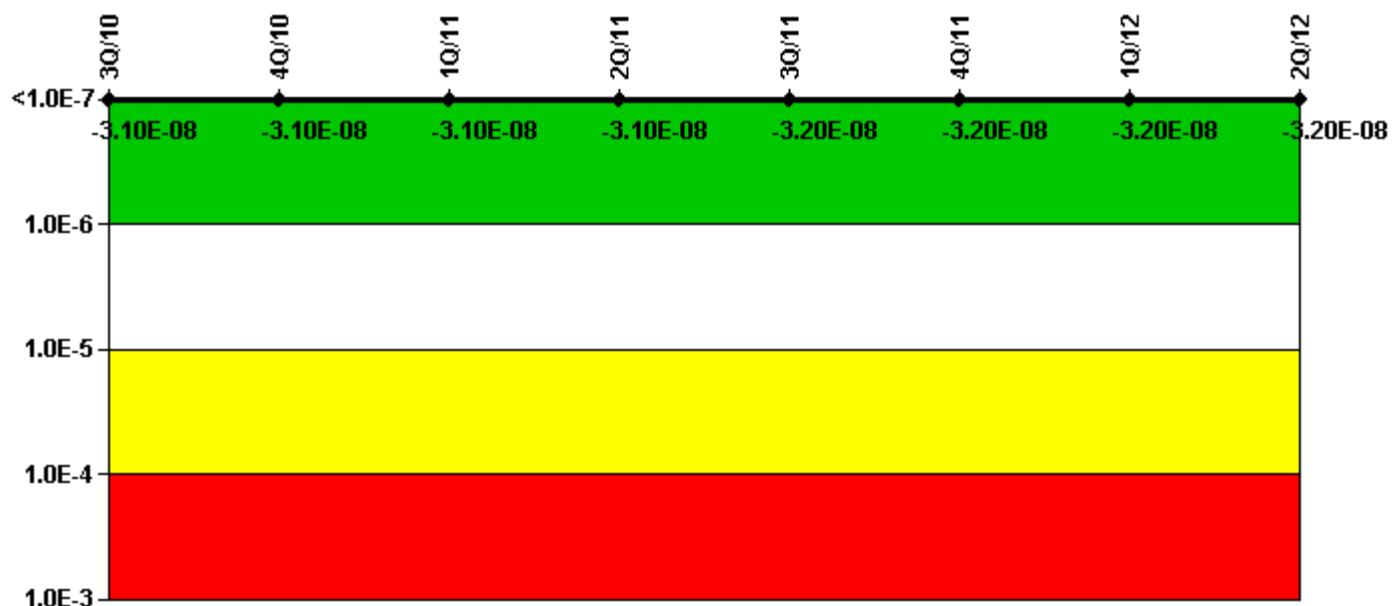
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-2.66E-11							
URI (ΔCDF)	-2.49E-08	-3.19E-09	-3.19E-09	-3.19E-09	-5.04E-09	-5.04E-09	-5.04E-09	-5.04E-09
PLE	NO							
Indicator value	-2.50E-08	-3.20E-09	-3.20E-09	-3.20E-09	-5.10E-09	-5.10E-09	-5.10E-09	-5.10E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



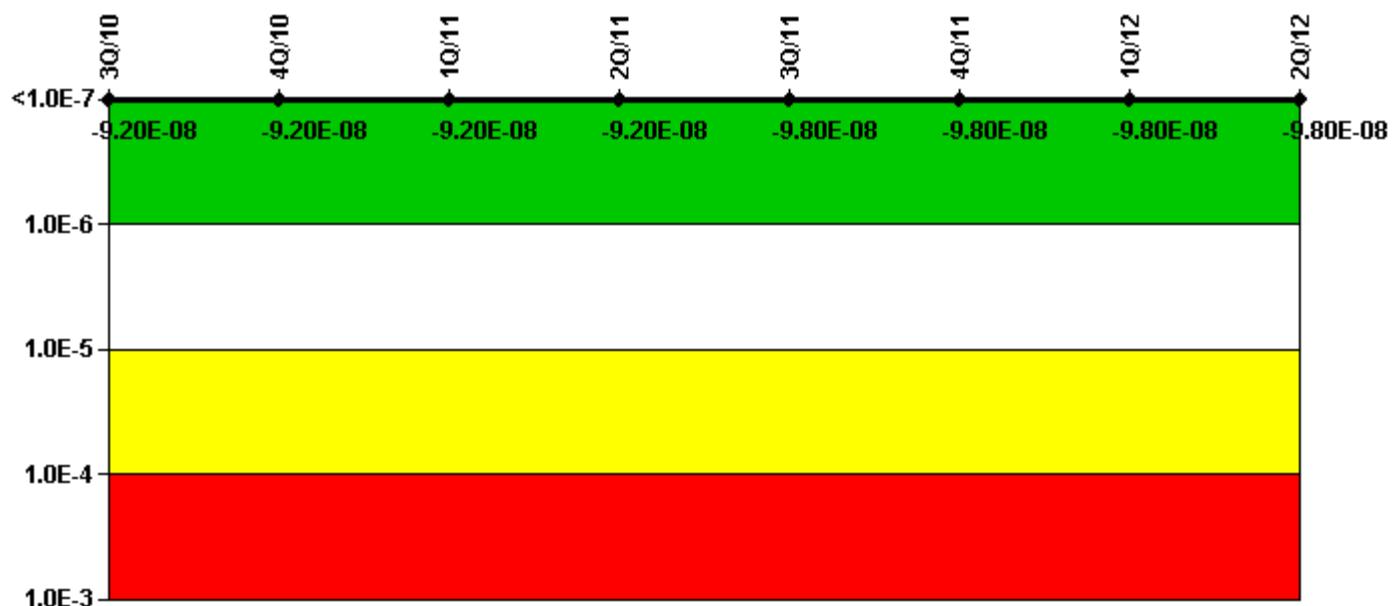
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-2.85E-11	-2.85E-11	-2.85E-11	-2.85E-11	-2.85E-11	-2.85E-11	-2.70E-11	-2.70E-11
URI (ΔCDF)	-3.05E-08	-3.12E-08	-3.12E-08	-3.12E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08
PLE	NO							
Indicator value	-3.10E-08	-3.10E-08	-3.10E-08	-3.10E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

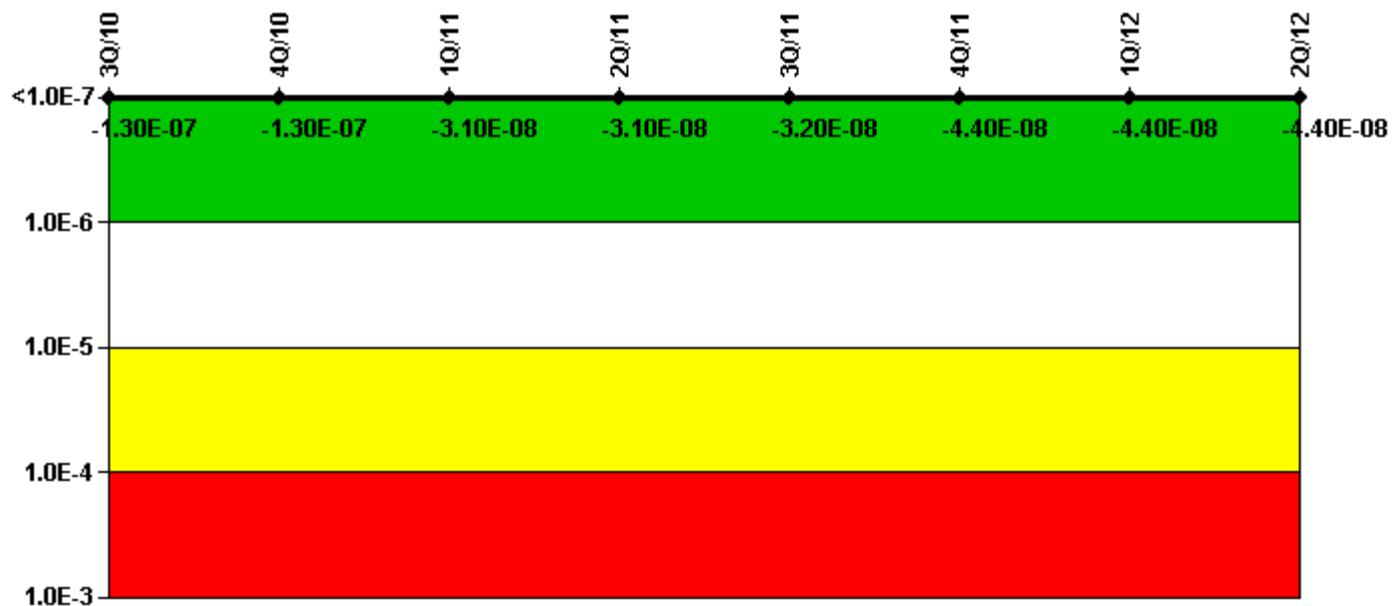
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-3.23E-13							
URI (ΔCDF)	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.83E-08	-9.83E-08	-9.83E-08	-9.83E-08
PLE	NO							
Indicator value	-9.20E-08	-9.20E-08	-9.20E-08	-9.20E-08	-9.80E-08	-9.80E-08	-9.80E-08	-9.80E-08

Licensee Comments:

2Q/12: The MSPI Basis document was revised to exclude two Unit 2 RHR heat exchanger CCW outlet valves from monitoring based on their Birnbaum importance.

1Q/12: March 31, 2012 test results for valve 2-CMO-429 are currently being evaluated to determine if a failure occurred per MSPI criteria. If it is determined that an MSPI equipment failure occurred, a change report will be submitted.

Mitigating Systems Performance Index, Cooling Water Systems



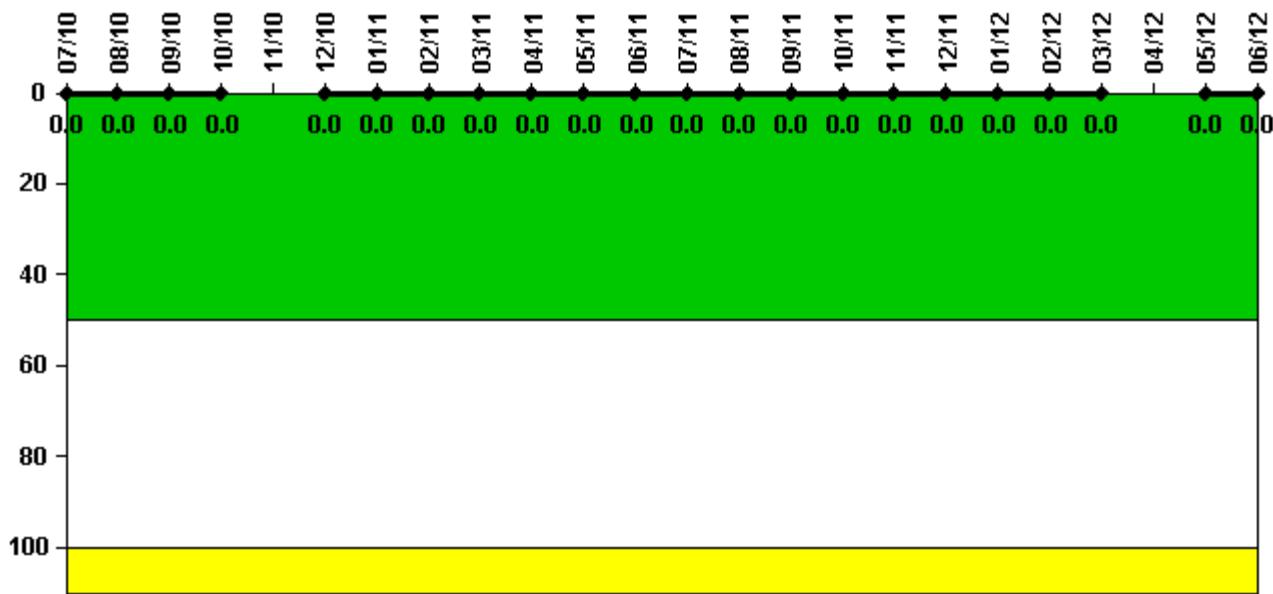
Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-3.53E-11	-3.31E-11	8.50E-12	8.50E-12	2.08E-12	-1.29E-11	3.37E-11	3.33E-11
URI (ΔCDF)	-1.27E-07	-1.27E-07	-3.06E-08	-3.07E-08	-3.19E-08	-4.36E-08	-4.36E-08	-4.36E-08
PLE	NO							
Indicator value	-1.30E-07	-1.30E-07	-3.10E-08	-3.10E-08	-3.20E-08	-4.40E-08	-4.40E-08	-4.40E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

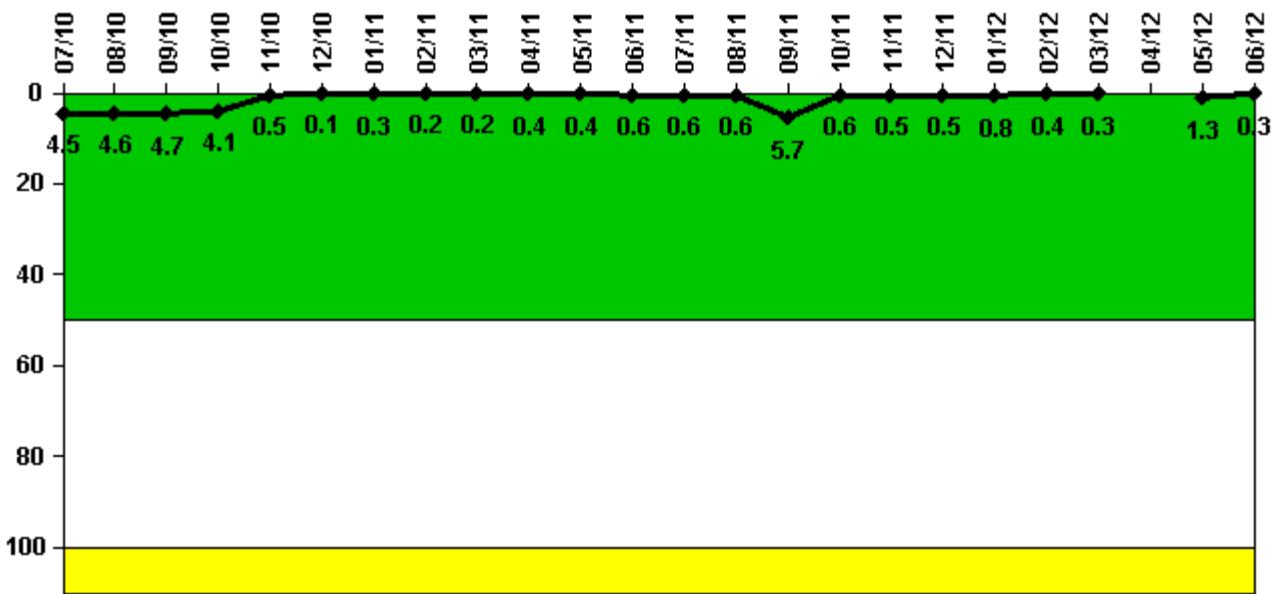
Reactor Coolant System Activity	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.000178	0.000178	0.000205	0.000350	N/A	0.000168	0.000094	0.000098	0.000100	0.000146	0.000152	0.000167
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	N/A	0	0	0	0	0	0	0
Reactor Coolant System Activity	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum activity	0.000163	0.000167	0.000170	0.000188	0.000190	0.000203	0.000200	0.000211	0.000152	N/A	0.000097	0.000099
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	N/A	0

Licensee Comments:

6/12: Due to a refueling outage followed by power escalation, no RCS activity data is available for April.

12/10: Unit 2 remained shut down through November for a refueling outage. No RCS activity data is available for that month.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

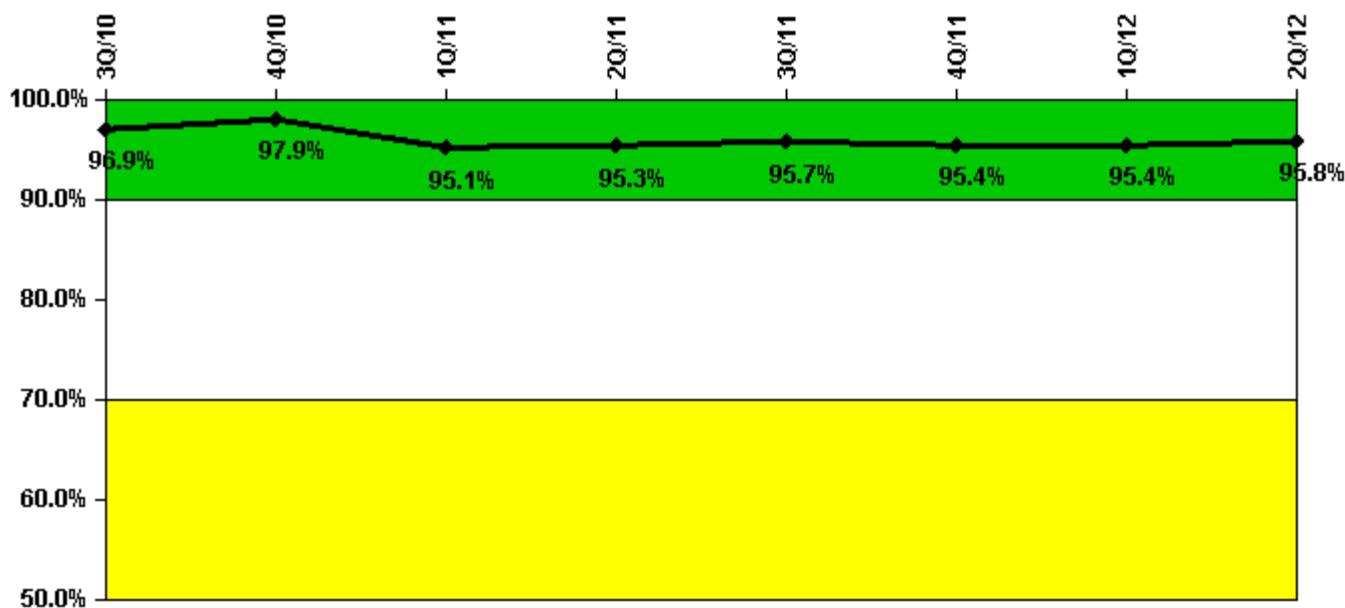
Reactor Coolant System Leakage	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum leakage	0.497	0.502	0.515	0.448	0.050	0.016	0.038	0.027	0.025	0.041	0.048	0.061
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	4.5	4.6	4.7	4.1	0.5	0.1	0.3	0.2	0.2	0.4	0.4	0.6
Reactor Coolant System Leakage	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum leakage	0.062	0.068	0.622	0.066	0.056	0.056	0.085	0.045	0.036	N/A	0.147	0.031
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.6	0.6	5.7	0.6	0.5	0.5	0.8	0.4	0.3	N/A	1.3	0.3

Licensee Comments:

6/12: Due to a refueling outage followed by power escalation, no RCS leakage data is available for April.

9/11: Elevated (0.6 gpm) RCS leak rate in September due to apparent packing leak occurring during pressurizer PORV block valve stroke test on September 22; leak was isolated the following day.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

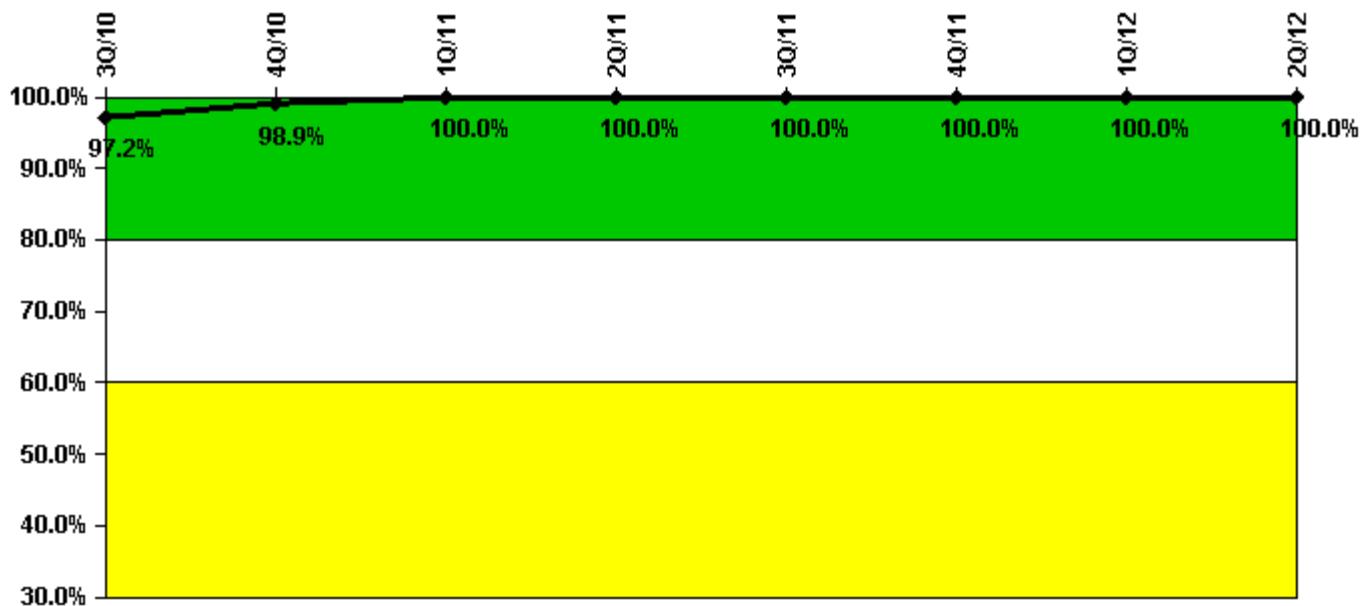
Notes

Drill/Exercise Performance	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful opportunities	29.0	19.0	43.0	16.0	41.0	0	34.0	24.0
Total opportunities	29.0	19.0	50.0	16.0	41.0	0	35.0	25.0
Indicator value	96.9%	97.9%	95.1%	95.3%	95.7%	95.4%	95.4%	95.8%

Licensee Comments:

1Q/11: Previously submitted data for February 2011 was revised to correct an error in grading drill results. Data was changed from "19 of 21 successful" to "18 of 21 successful". This changes the first quarter 2011 total from "44 of 50 successful" to "43 of 50 successful". This change has no impact on performance indicator color.

ERO Drill Participation



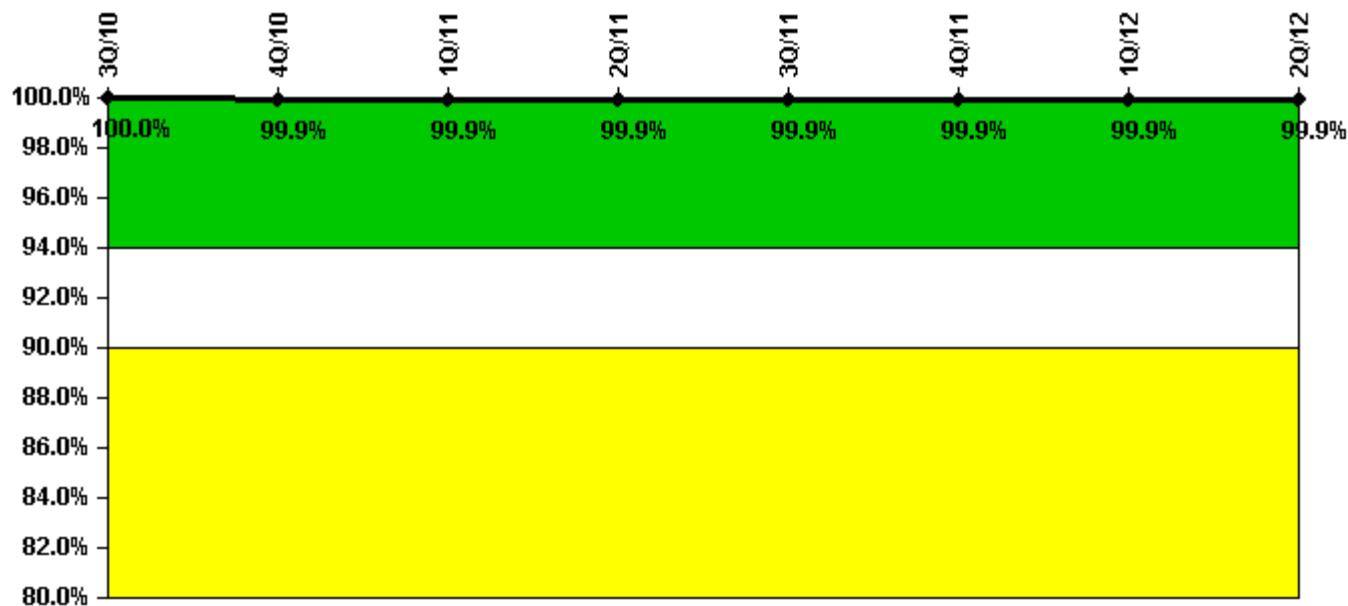
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Participating Key personnel	103.0	94.0	92.0	92.0	91.0	91.0	91.0	89.0
Total Key personnel	106.0	95.0	92.0	92.0	91.0	91.0	91.0	89.0
Indicator value	97.2%	98.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



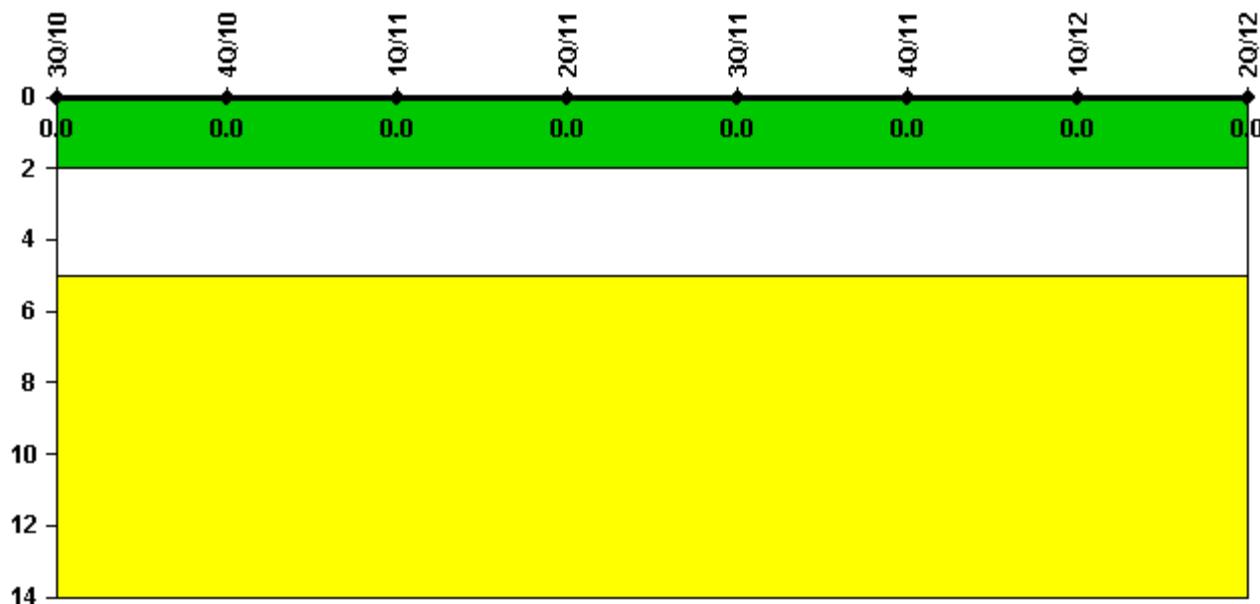
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful siren-tests	1118	1118	1119	1117	1120	1120	1118	1118
Total sirens-tests	1119	1120	1120	1119	1120	1120	1120	1119
Indicator value	100.0%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



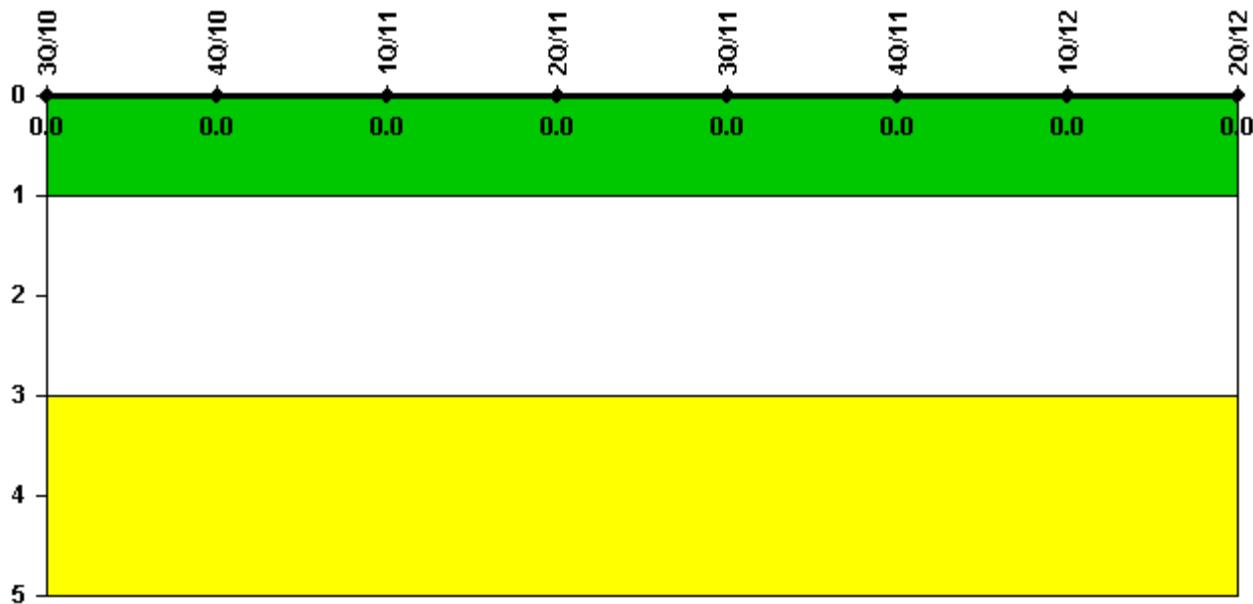
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

D.C. Cook 2**3Q/2012 Performance Indicators**

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

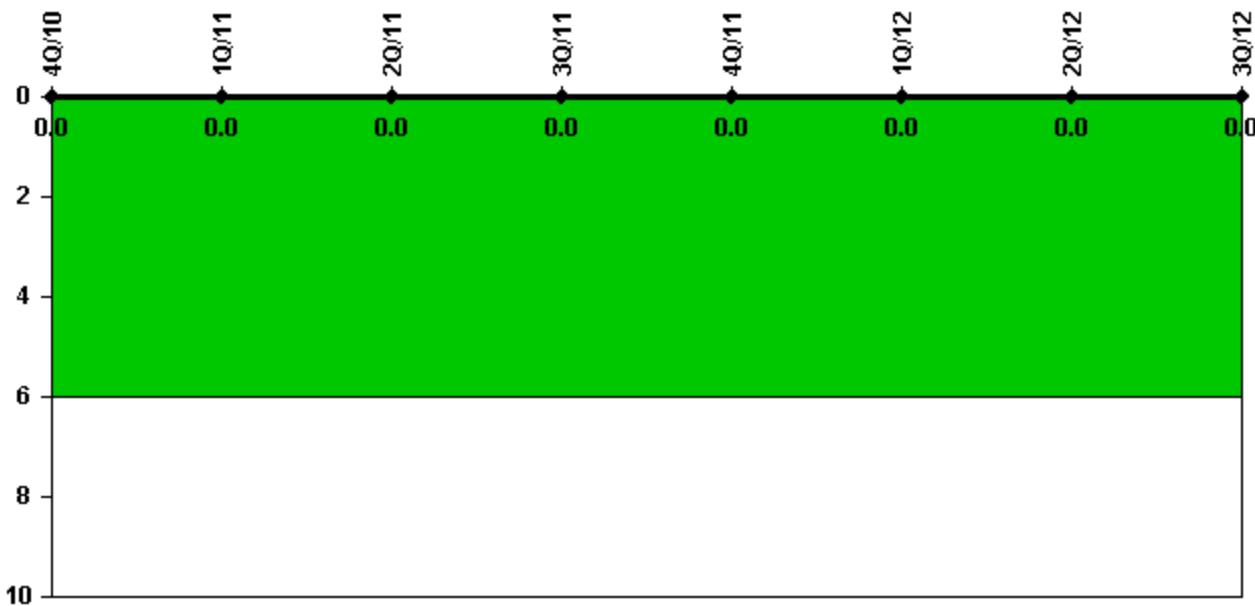
Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	767.4	2159.0	2184.0	2208.0	2209.0	1919.0	1510.6	2208.0
Indicator value	0	0	0	0	0	0	0.9	0.9

Licensee Comments:

2Q/12: On April 30, the reactor automatically tripped due to a main generator trip caused by an incorrect protective relay setting.

Unplanned Power Changes per 7000 Critical Hrs



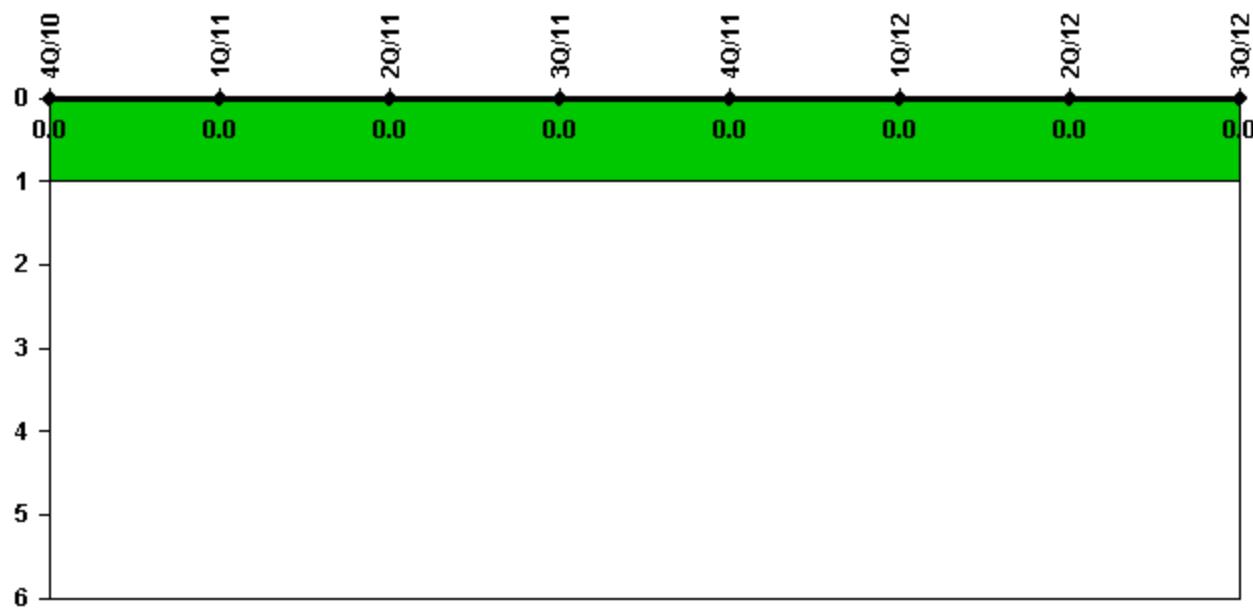
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	767.4	2159.0	2184.0	2208.0	2209.0	1919.0	1510.6	2208.0
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



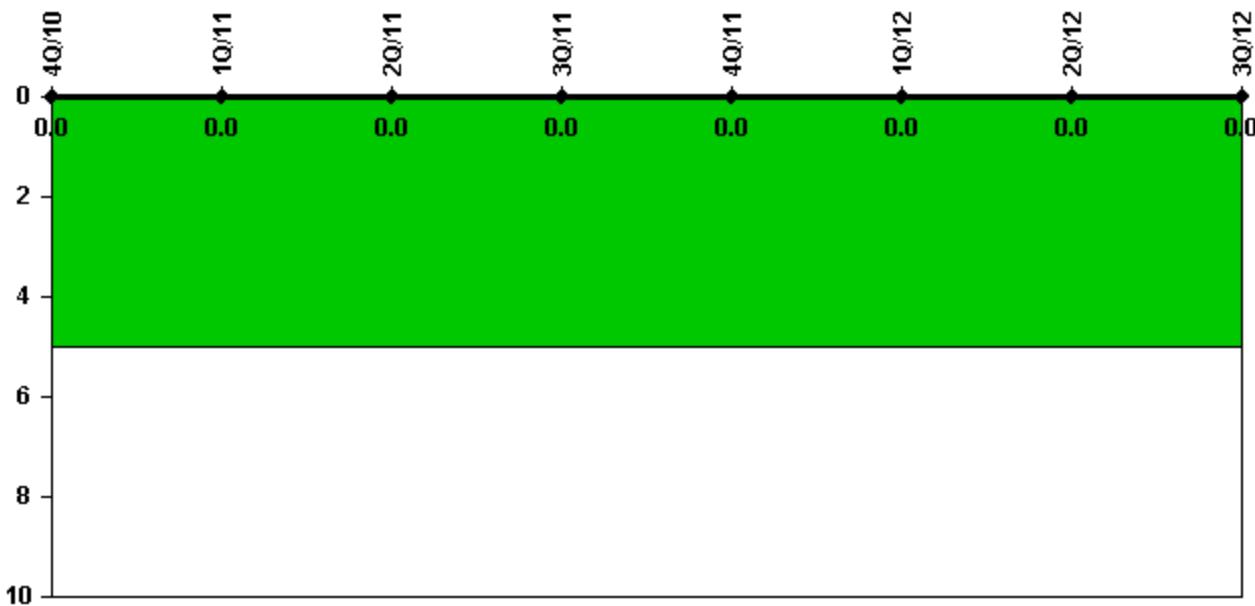
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0							

Licensee Comments: none

Safety System Functional Failures (PWR)



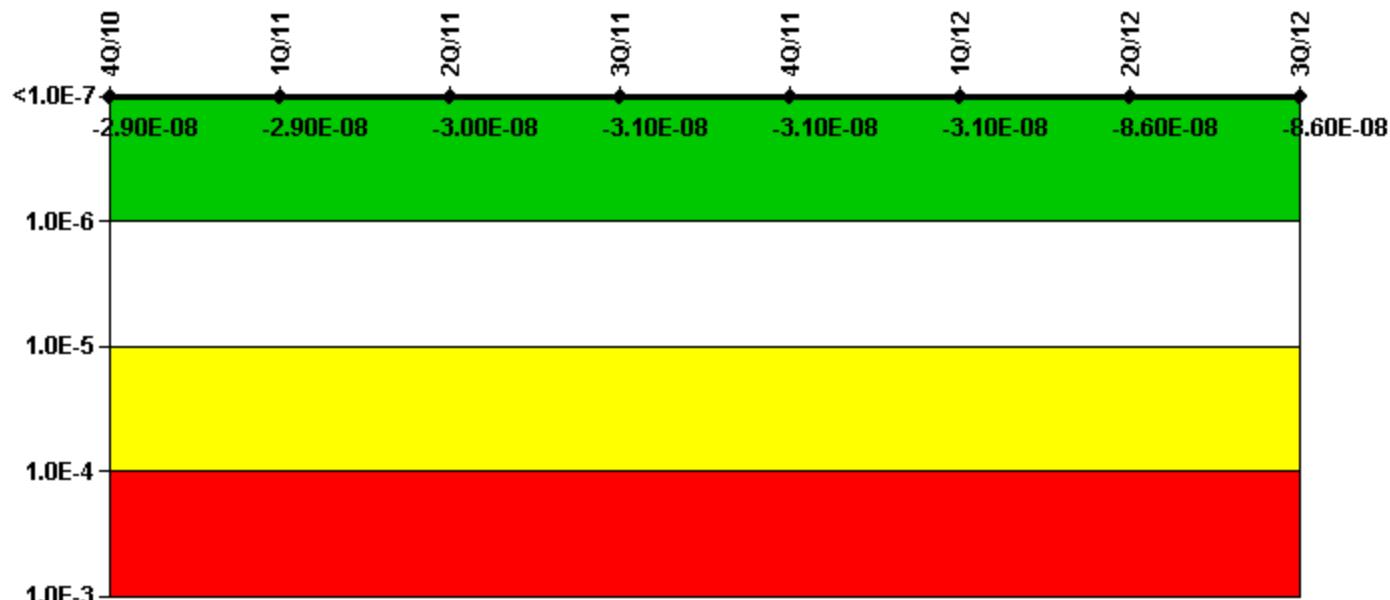
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



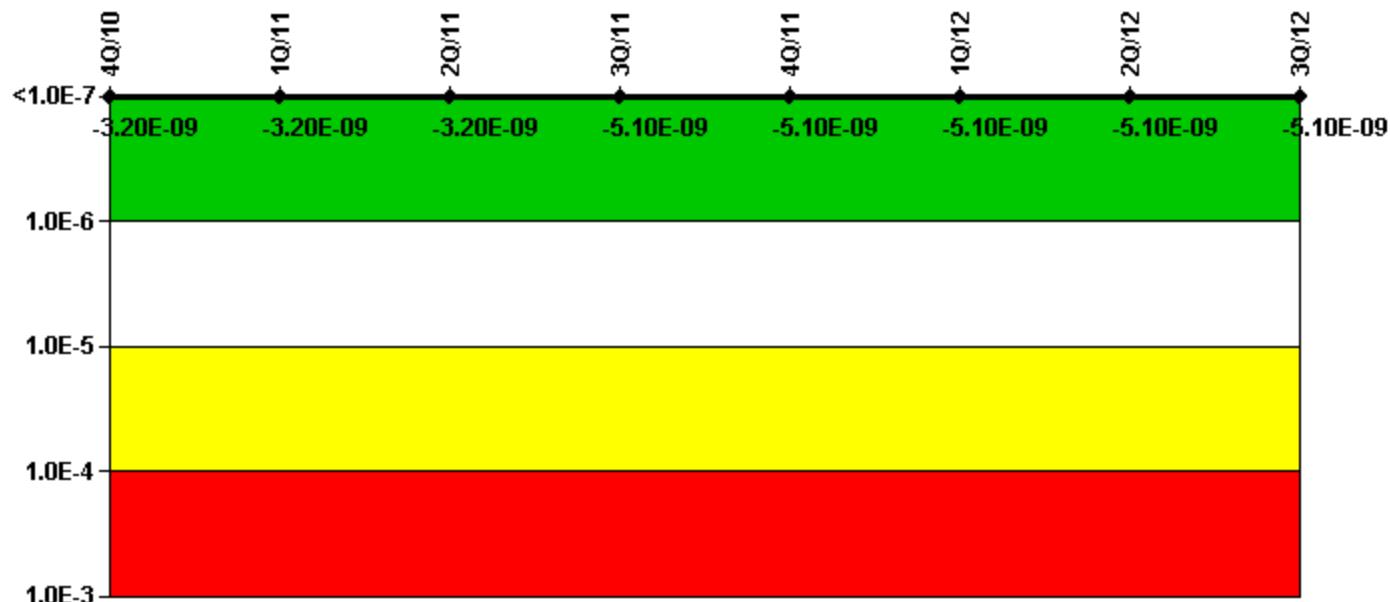
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	5.80E-10	6.00E-10	3.07E-10	-2.13E-10	-2.39E-10	-2.32E-10	2.06E-10	-5.99E-11
URI (Δ CDF)	-2.99E-08	-2.99E-08	-2.99E-08	-3.11E-08	-3.11E-08	-3.11E-08	-8.64E-08	-8.64E-08
PLE	NO							
Indicator value	-2.90E-08	-2.90E-08	-3.00E-08	-3.10E-08	-3.10E-08	-3.10E-08	-8.60E-08	-8.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



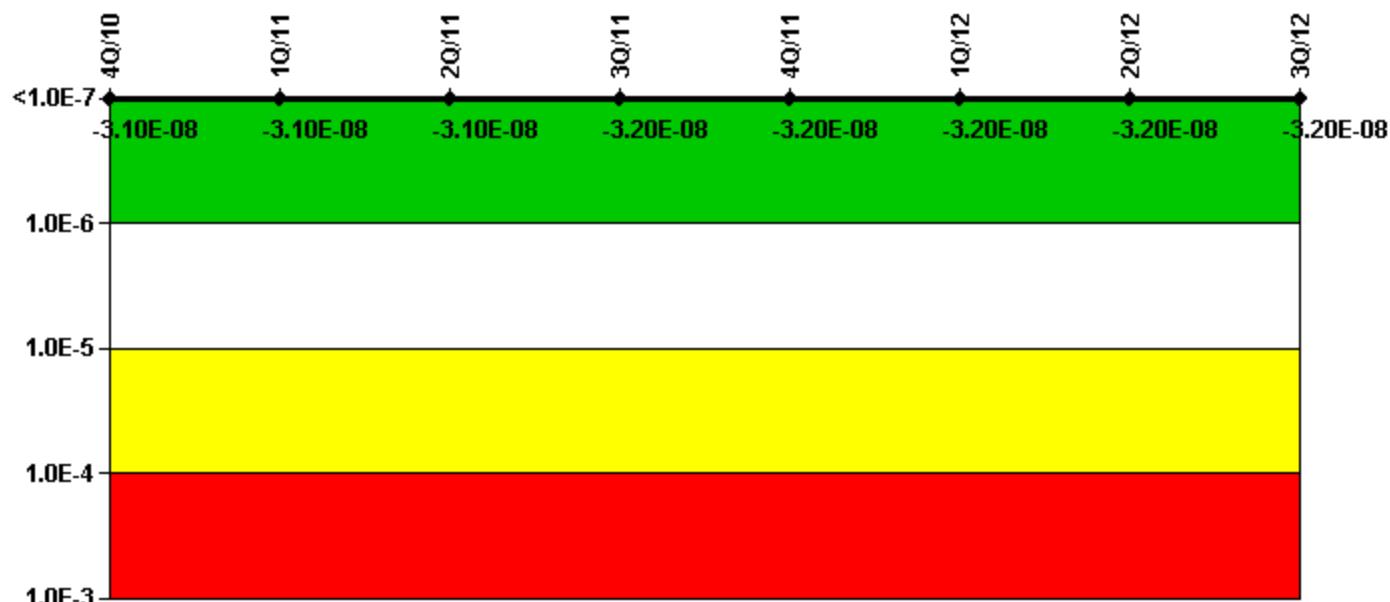
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	-2.66E-11							
URI (Δ CDF)	-3.19E-09	-3.19E-09	-3.19E-09	-5.04E-09	-5.04E-09	-5.04E-09	-5.04E-09	-5.04E-09
PLE	NO							
Indicator value	-3.20E-09	-3.20E-09	-3.20E-09	-5.10E-09	-5.10E-09	-5.10E-09	-5.10E-09	-5.10E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



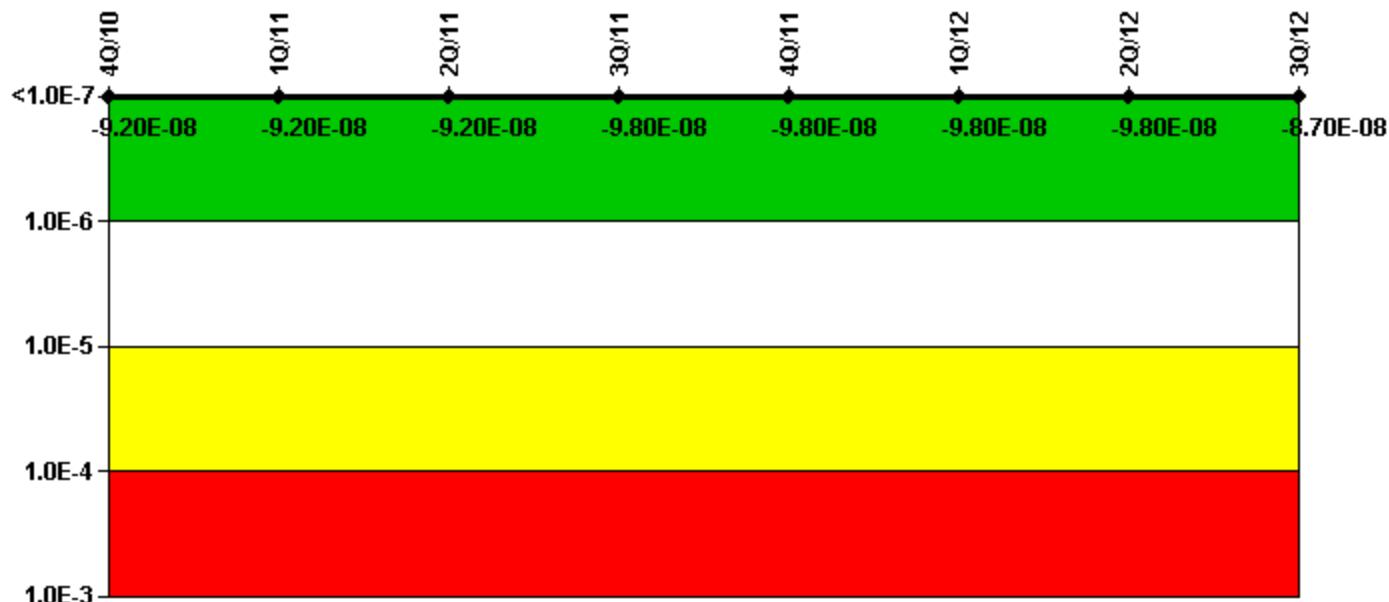
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	-2.85E-11	-2.85E-11	-2.85E-11	-2.85E-11	-2.85E-11	-2.70E-11	-2.70E-11	-7.22E-12
URI (Δ CDF)	-3.12E-08	-3.12E-08	-3.12E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08
PLE	NO							
Indicator value	-3.10E-08	-3.10E-08	-3.10E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

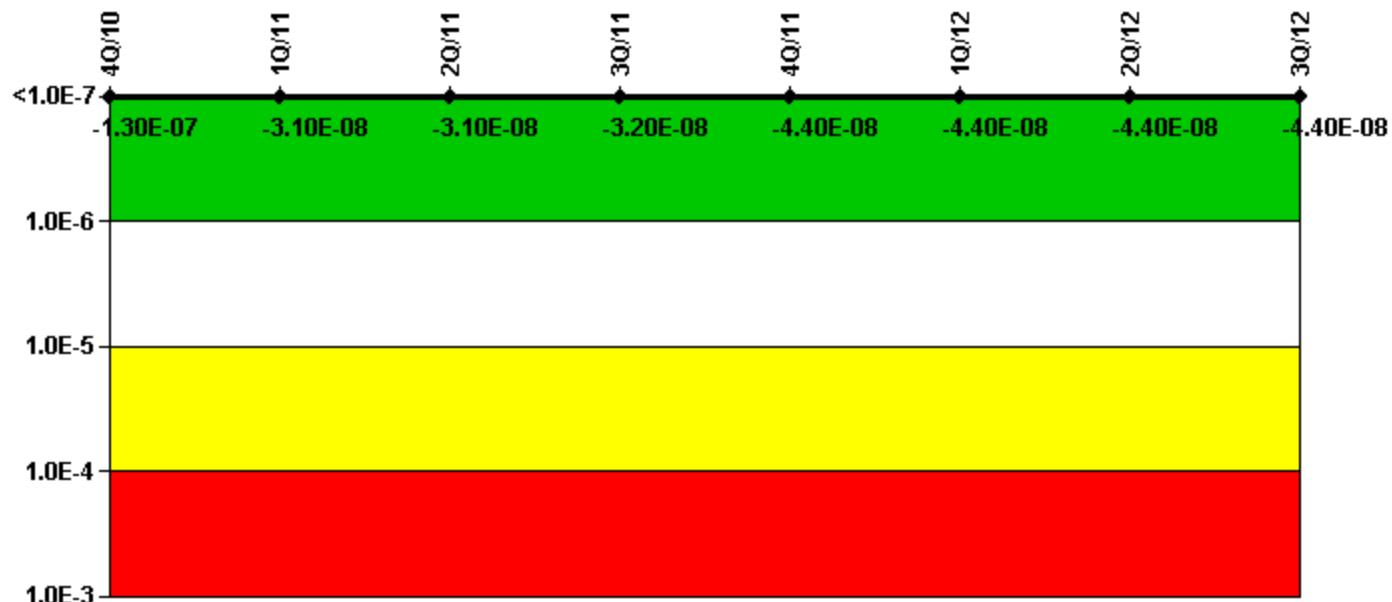
Mitigating Systems Performance Index, Residual Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	-3.23E-13	-1.68E-13						
URI (Δ CDF)	-9.20E-08	-9.20E-08	-9.20E-08	-9.83E-08	-9.83E-08	-9.83E-08	-9.83E-08	-8.69E-08
PLE	NO							
Indicator value	-9.20E-08	-9.20E-08	-9.20E-08	-9.80E-08	-9.80E-08	-9.80E-08	-9.80E-08	-8.70E-08

Licensee Comments:

2Q/12: The MSPI Basis document was revised to exclude two Unit 2 RHR heat exchanger CCW outlet valves from monitoring based on their Birnbaum importance.

1Q/12: March 31, 2012 test results for valve 2-CMO-429 are currently being evaluated to determine if a failure occurred per MSPI criteria. If it is determined that an MSPI equipment failure occurred, a change report will be submitted.

Mitigating Systems Performance Index, Cooling Water Systems



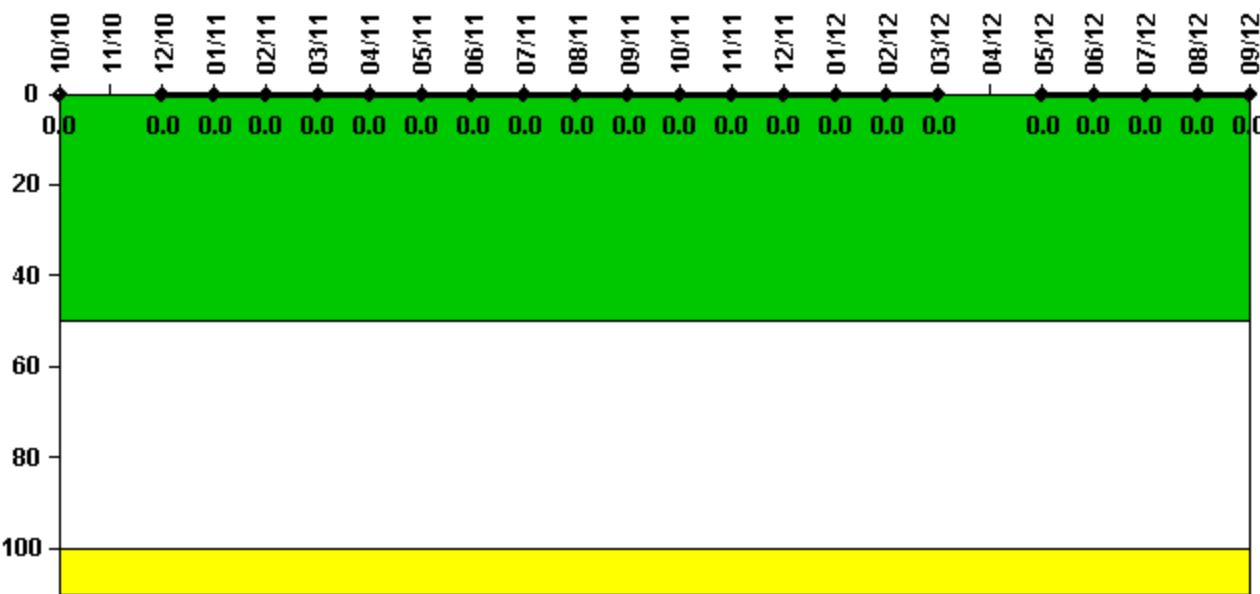
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	-3.31E-11	8.50E-12	8.50E-12	2.08E-12	-1.29E-11	3.37E-11	3.33E-11	6.99E-11
URI (Δ CDF)	-1.27E-07	-3.06E-08	-3.07E-08	-3.19E-08	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08
PLE	NO							
Indicator value	-1.30E-07	-3.10E-08	-3.10E-08	-3.20E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

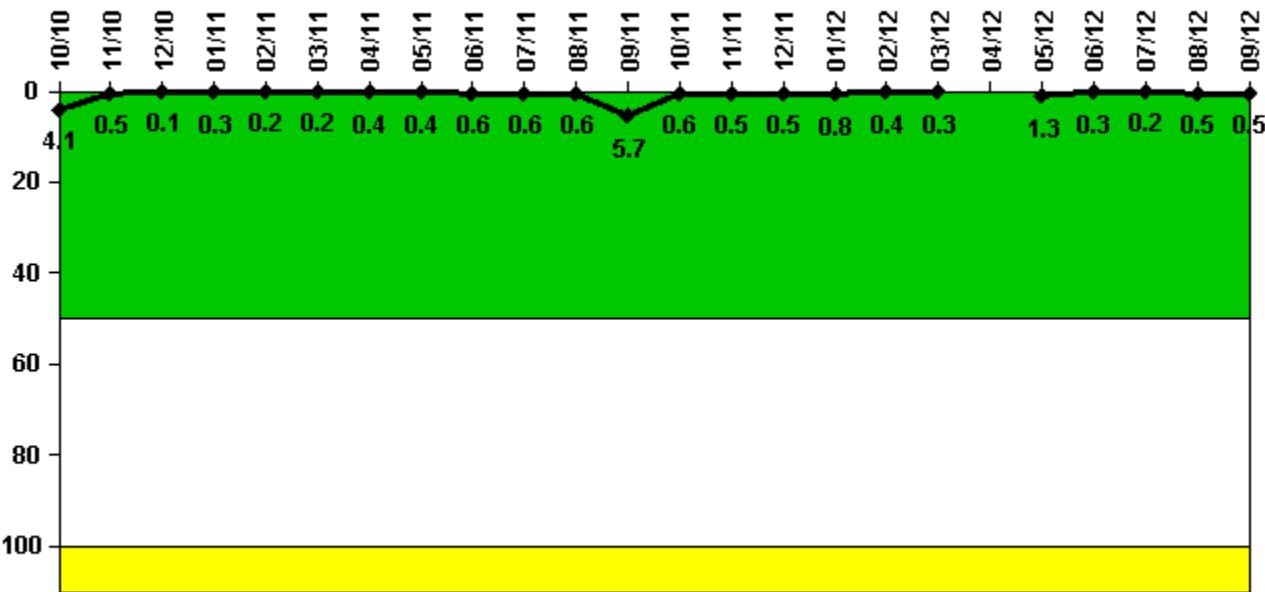
Reactor Coolant System Activity	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum activity	0.000350	N/A	0.000168	0.000094	0.000098	0.000100	0.000146	0.000152	0.000167	0.000163	0.000167	0.000170
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	N/A	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum activity	0.000188	0.000190	0.000203	0.000200	0.000211	0.000152	N/A	0.000097	0.000099	0.000104	0.000205	0.000120
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	N/A	0	0	0	0	0

Licensee Comments:

6/12: Due to a refueling outage followed by power escalation, no RCS activity data is available for April.

12/10: Unit 2 remained shut down through November for a refueling outage. No RCS activity data is available for that month.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum leakage	0.448	0.050	0.016	0.038	0.027	0.025	0.041	0.048	0.061	0.062	0.068	0.622
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	4.1	0.5	0.1	0.3	0.2	0.2	0.4	0.4	0.6	0.6	0.6	5.7

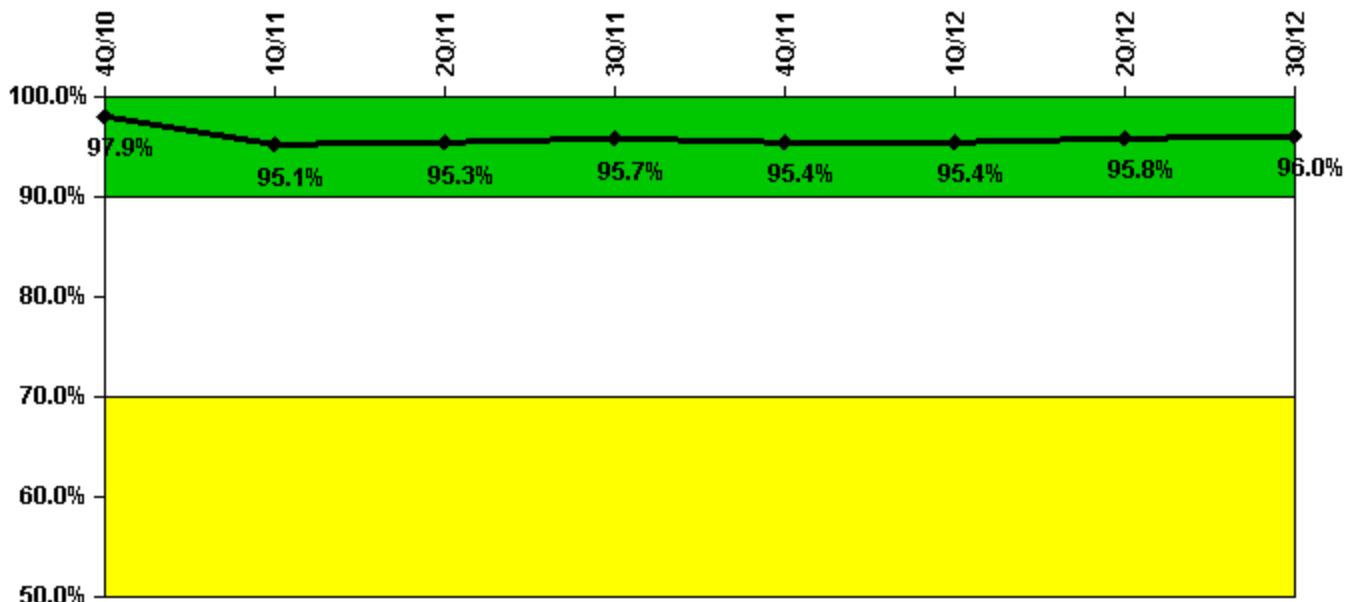
Reactor Coolant System Leakage	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum leakage	0.066	0.056	0.056	0.085	0.045	0.036	N/A	0.147	0.031	0.023	0.050	0.055
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.6	0.5	0.5	0.8	0.4	0.3	N/A	1.3	0.3	0.2	0.5	0.5

Licensee Comments:

6/12: Due to a refueling outage followed by power escalation, no RCS leakage data is available for April.

9/11: Elevated (0.6 gpm) RCS leak rate in September due to apparent packing leak occurring during pressurizer PORV block valve stroke test on September 22; leak was isolated the following day.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

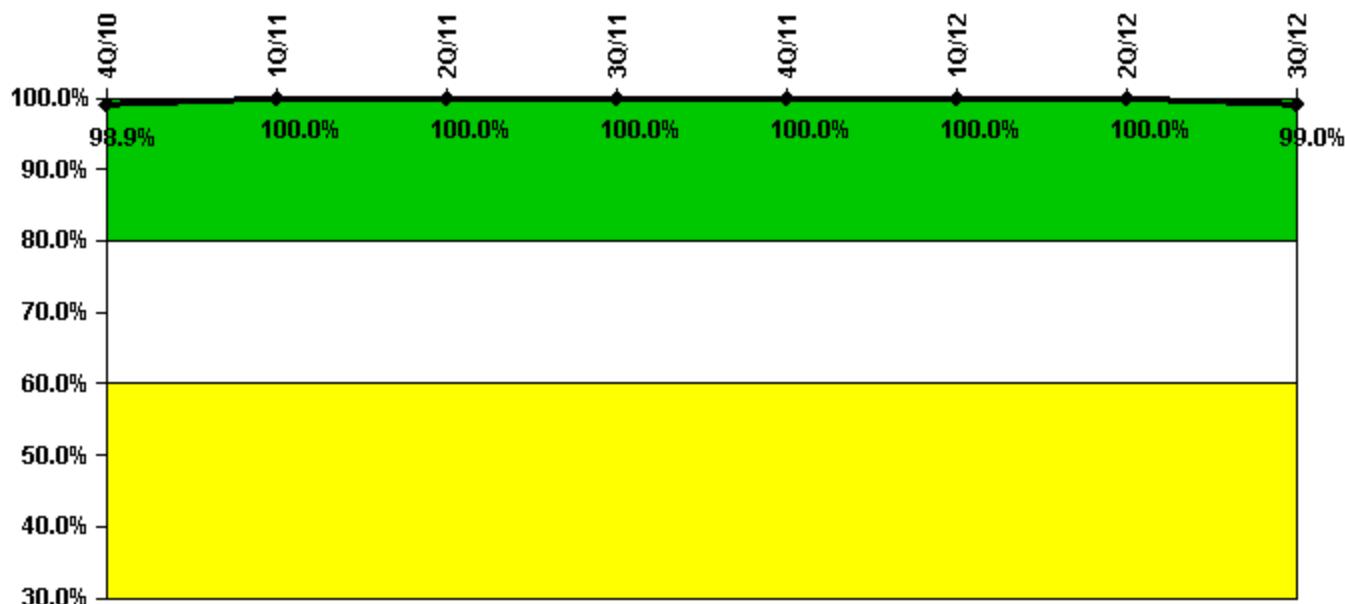
Notes

Drill/Exercise Performance	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful opportunities	19.0	43.0	16.0	41.0	0	34.0	24.0	41.0
Total opportunities	19.0	50.0	16.0	41.0	0	35.0	25.0	41.0
Indicator value	97.9%	95.1%	95.3%	95.7%	95.4%	95.4%	95.8%	96.0%

Licensee Comments:

1Q/11: Previously submitted data for February 2011 was revised to correct an error in grading drill results. Data was changed from "19 of 21 successful" to "18 of 21 successful". This changes the first quarter 2011 total from "44 of 50 successful" to "43 of 50 successful". This change has no impact on performance indicator color.

ERO Drill Participation



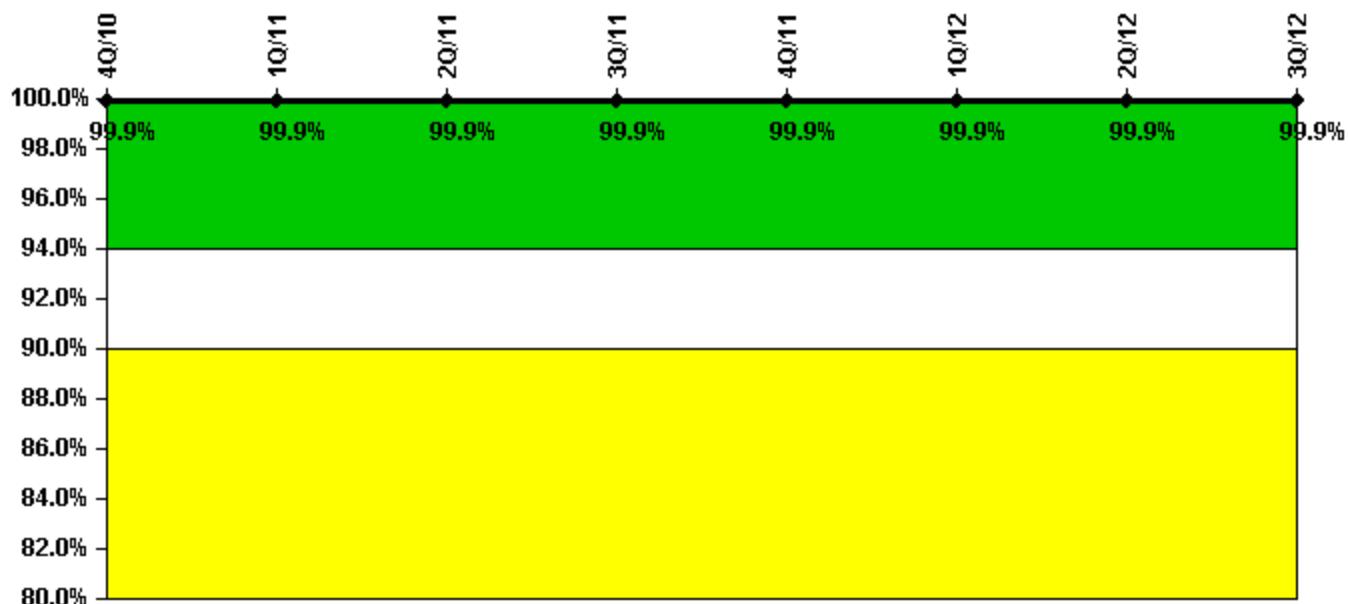
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Participating Key personnel	94.0	92.0	92.0	91.0	91.0	91.0	89.0	95.0
Total Key personnel	95.0	92.0	92.0	91.0	91.0	91.0	89.0	96.0
Indicator value	98.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.0%

Licensee Comments: none

Alert & Notification System



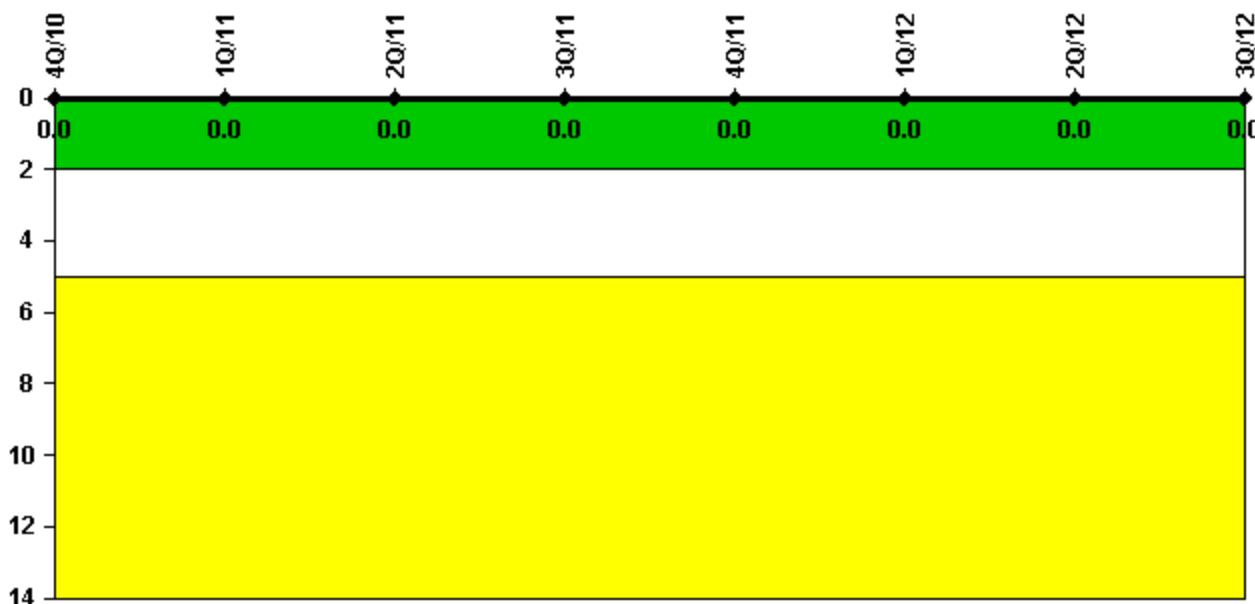
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful siren-tests	1118	1119	1117	1120	1120	1118	1118	1120
Total sirens-tests	1120	1120	1119	1120	1120	1120	1119	1120
Indicator value	99.9%							

Licensee Comments: none

Occupational Exposure Control Effectiveness



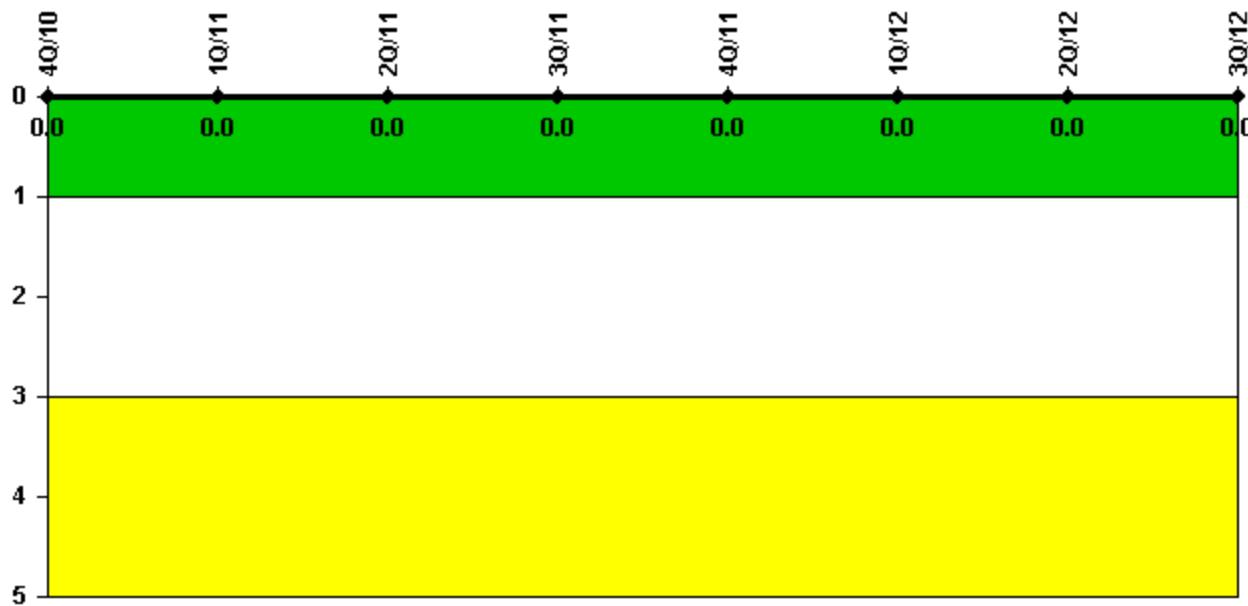
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

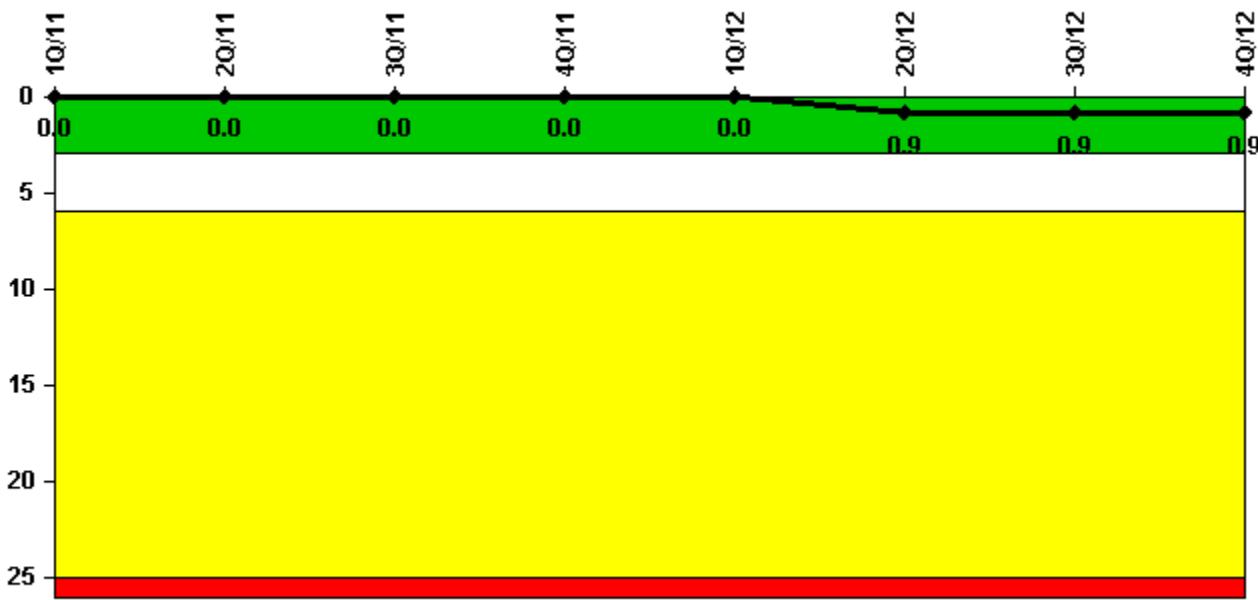


[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: October 24, 2012

D.C. Cook 2**4Q/2012 Performance Indicators**

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

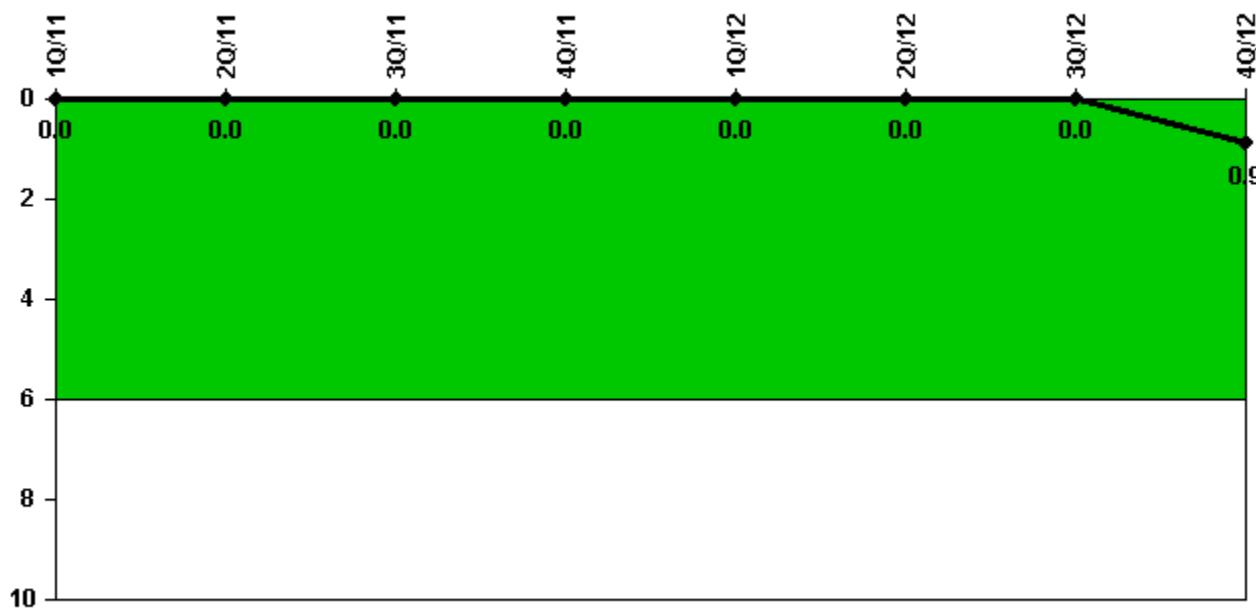
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2159.0	2184.0	2208.0	2209.0	1919.0	1510.6	2208.0	2209.0
Indicator value	0	0	0	0	0	0.9	0.9	0.9

Licensee Comments:

2Q/12: On April 30, the reactor automatically tripped due to a main generator trip caused by an incorrect protective relay setting.

Unplanned Power Changes per 7000 Critical Hrs

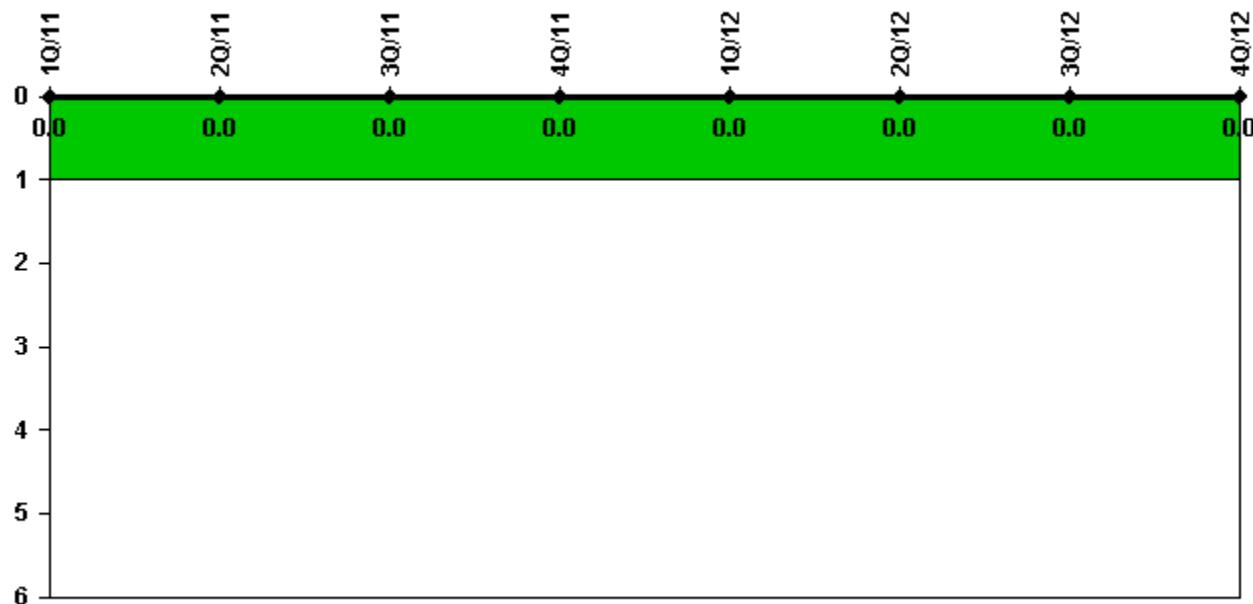
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2159.0	2184.0	2208.0	2209.0	1919.0	1510.6	2208.0	2209.0
Indicator value	0	0.9						

Licensee Comments:

4Q/12: Downpower to 19% due to 2-BLP-130, Steam Generator Narrow Range Level Transmitter, leak on 11/28/12.

Unplanned Scrams with Complications

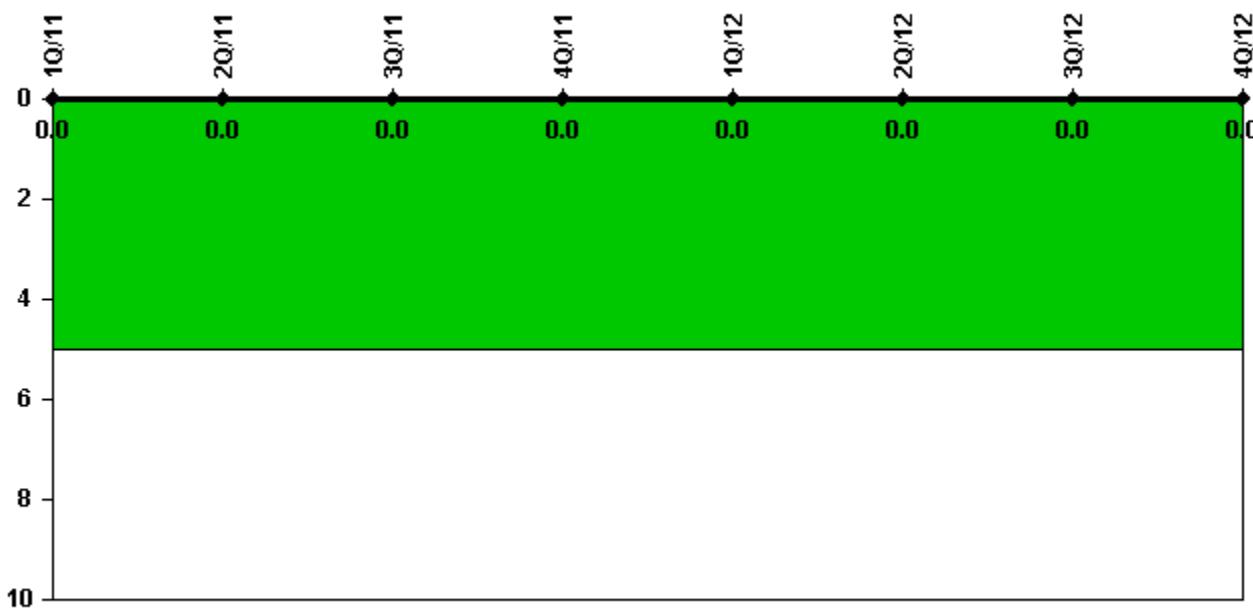
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0							

Licensee Comments: none

Safety System Functional Failures (PWR)

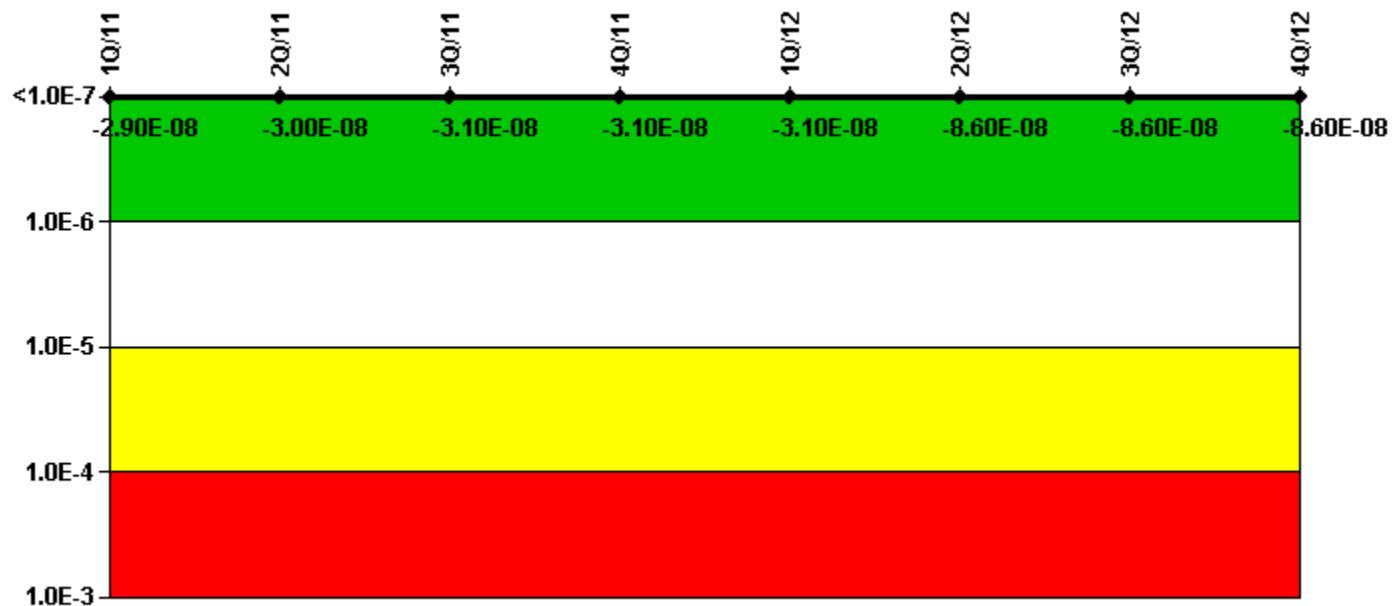


Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

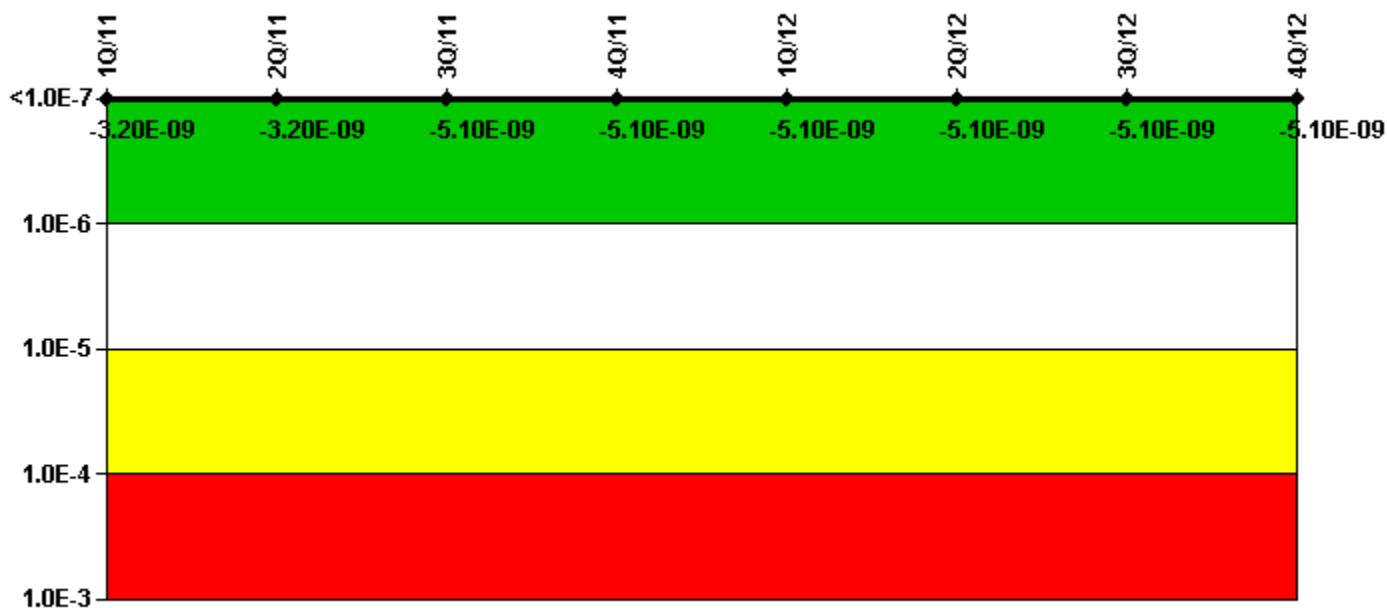
Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	6.00E-10	3.07E-10	-2.13E-10	-2.39E-10	-2.32E-10	2.06E-10	-5.99E-11	-6.18E-11
URI (Δ CDF)	-2.99E-08	-2.99E-08	-3.11E-08	-3.11E-08	-3.11E-08	-8.64E-08	-8.64E-08	-8.64E-08
PLE	NO							
Indicator value	-2.90E-08	-3.00E-08	-3.10E-08	-3.10E-08	-3.10E-08	-8.60E-08	-8.60E-08	-8.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



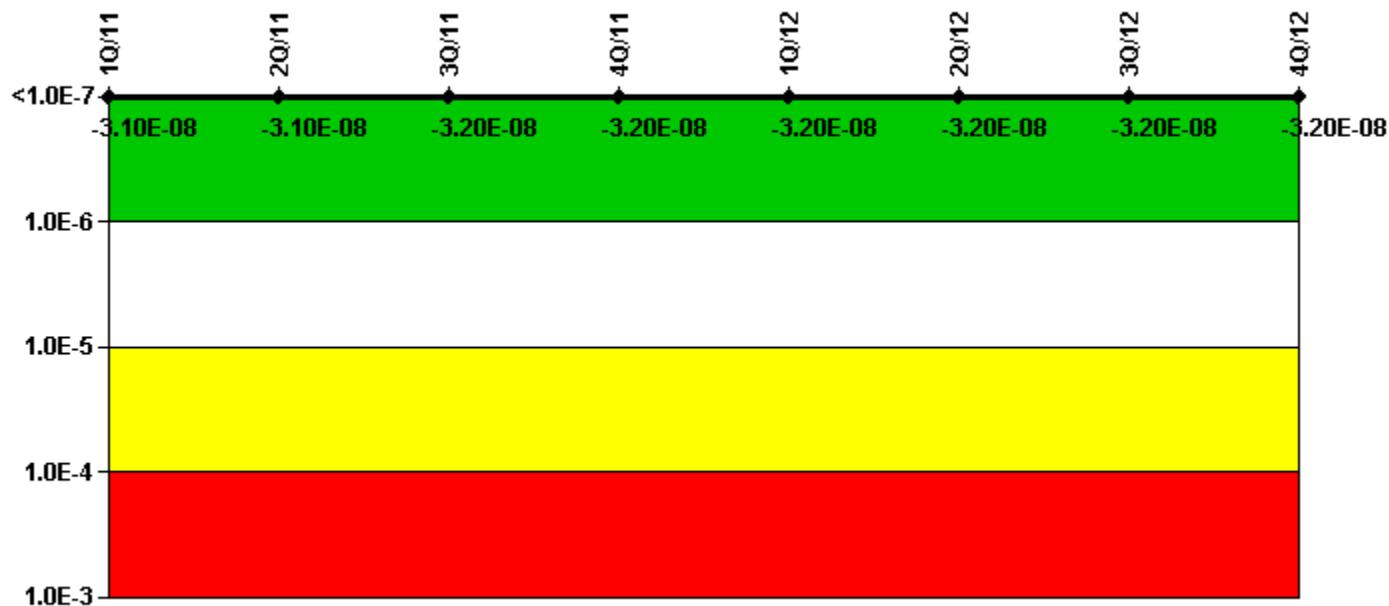
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	-2.66E-11							
URI (Δ CDF)	-3.19E-09	-3.19E-09	-5.04E-09	-5.04E-09	-5.04E-09	-5.04E-09	-5.04E-09	-5.04E-09
PLE	NO							
Indicator value	-3.20E-09	-3.20E-09	-5.10E-09	-5.10E-09	-5.10E-09	-5.10E-09	-5.10E-09	-5.10E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



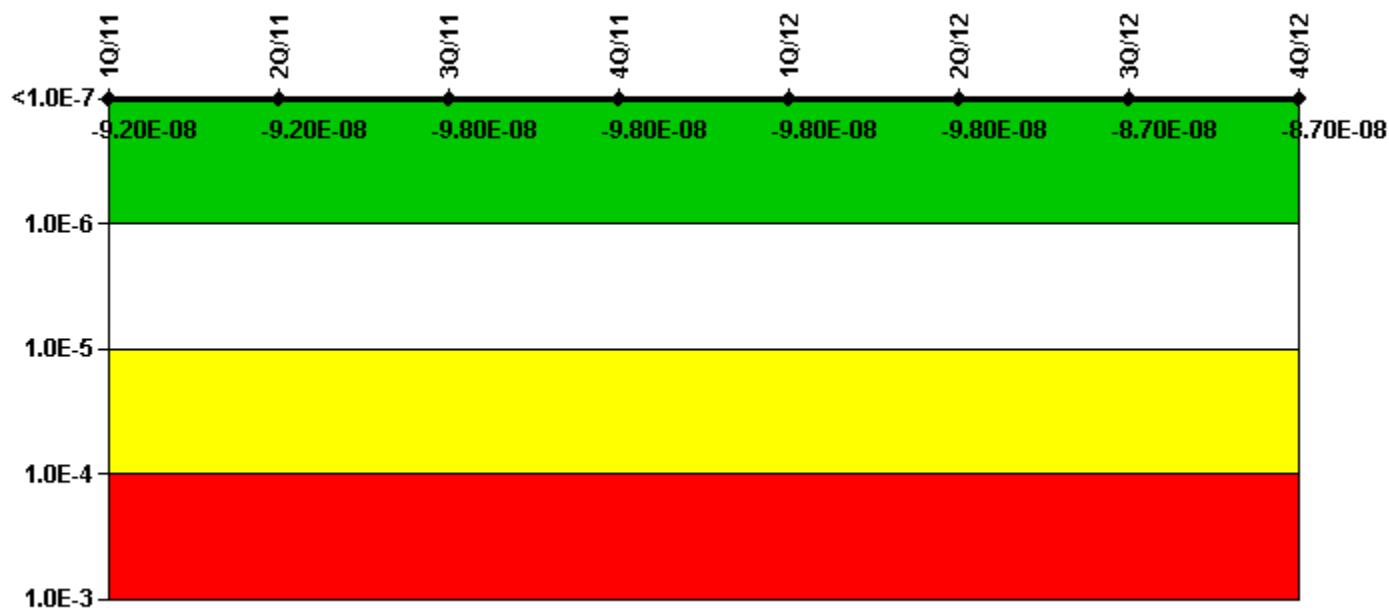
Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	$-2.85E-11$	$-2.85E-11$	$-2.85E-11$	$-2.85E-11$	$-2.70E-11$	$-2.70E-11$	$-7.22E-12$	$-7.22E-12$
URI (Δ CDF)	$-3.12E-08$	$-3.12E-08$	$-3.20E-08$	$-3.20E-08$	$-3.20E-08$	$-3.20E-08$	$-3.20E-08$	$-3.20E-08$
PLE	NO							
Indicator value	$-3.10E-08$	$-3.10E-08$	$-3.20E-08$	$-3.20E-08$	$-3.20E-08$	$-3.20E-08$	$-3.20E-08$	$-3.20E-08$

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

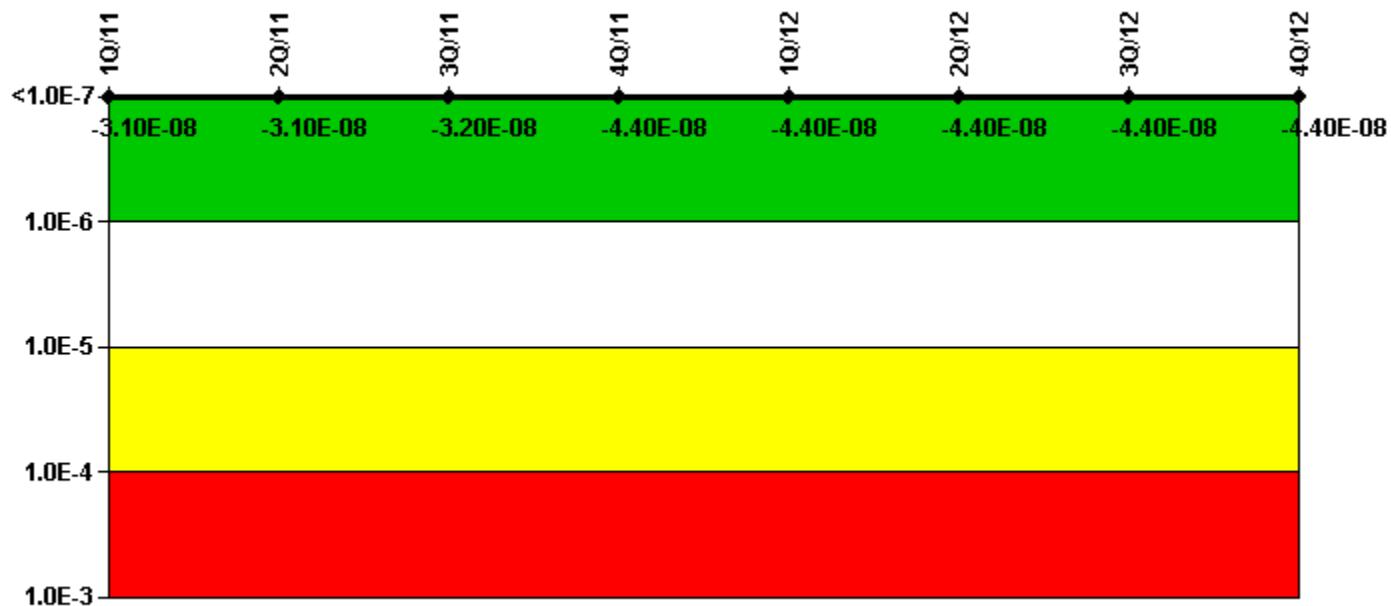
Mitigating Systems Performance Index, Residual Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13	-1.68E-13	-2.07E-13
URI (Δ CDF)	-9.20E-08	-9.20E-08	-9.83E-08	-9.83E-08	-9.83E-08	-9.83E-08	-8.69E-08	-8.69E-08
PLE	NO							
Indicator value	-9.20E-08	-9.20E-08	-9.80E-08	-9.80E-08	-9.80E-08	-9.80E-08	-8.70E-08	-8.70E-08

Licensee Comments:

2Q/12: The MSPI Basis document was revised to exclude two Unit 2 RHR heat exchanger CCW outlet valves from monitoring based on their Birnbaum importance.

1Q/12: March 31, 2012 test results for valve 2-CMO-429 are currently being evaluated to determine if a failure occurred per MSPI criteria. If it is determined that an MSPI equipment failure occurred, a change report will be submitted.

Mitigating Systems Performance Index, Cooling Water Systems



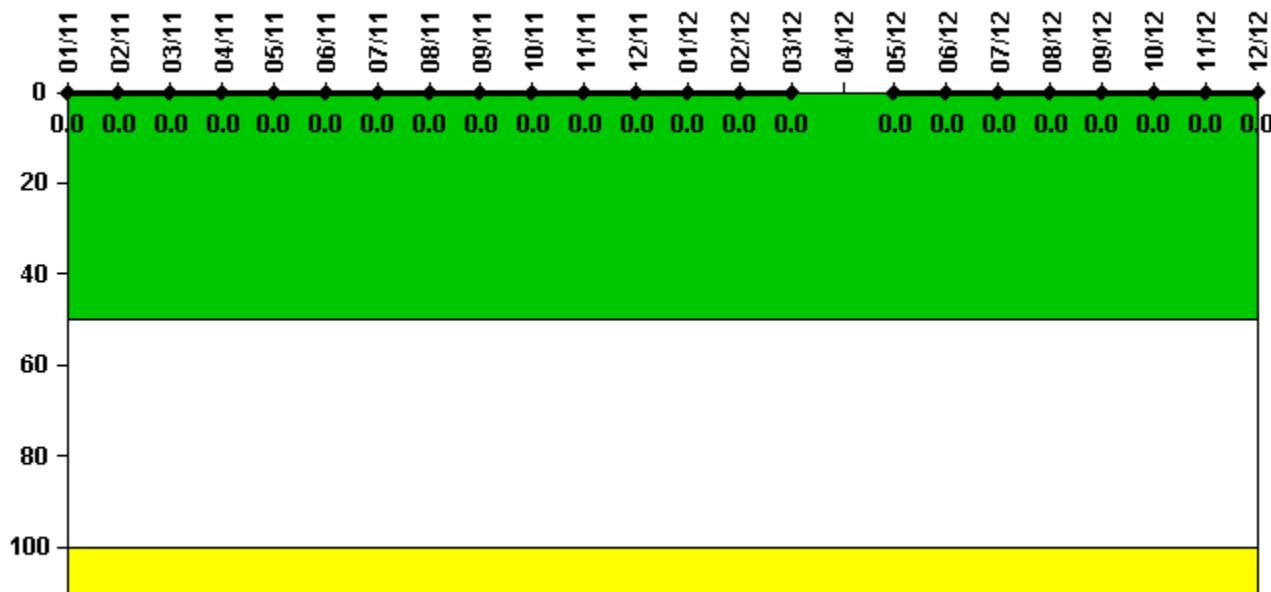
Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	8.50E-12	8.50E-12	2.08E-12	-1.29E-11	3.37E-11	3.33E-11	6.99E-11	6.99E-11
URI (Δ CDF)	-3.06E-08	-3.07E-08	-3.19E-08	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08
PLE	NO							
Indicator value	-3.10E-08	-3.10E-08	-3.20E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

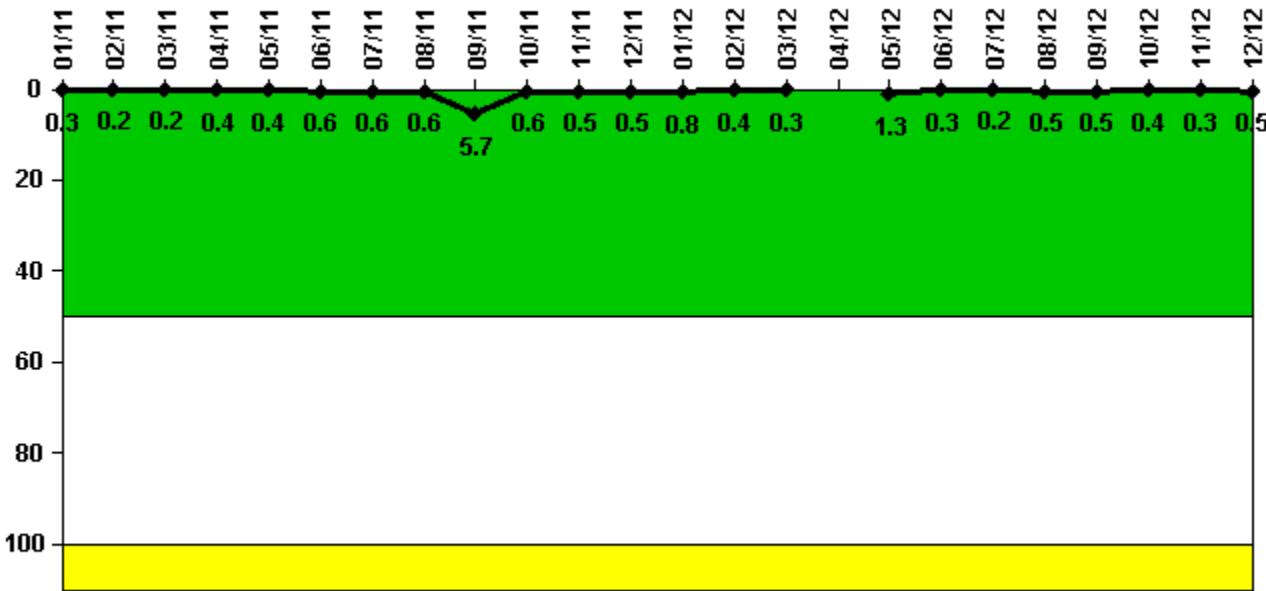
Notes

Reactor Coolant System Activity	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum activity	0.000094	0.000098	0.000100	0.000146	0.000152	0.000167	0.000163	0.000167	0.000170	0.000188	0.000190	0.000203
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum activity	0.000200	0.000211	0.000152	N/A	0.000097	0.000099	0.000104	0.000205	0.000120	0.000123	0.000160	0.000130
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	N/A	0	0	0	0	0	0	0	0

Licensee Comments:

6/12: Due to a refueling outage followed by power escalation, no RCS activity data is available for April.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

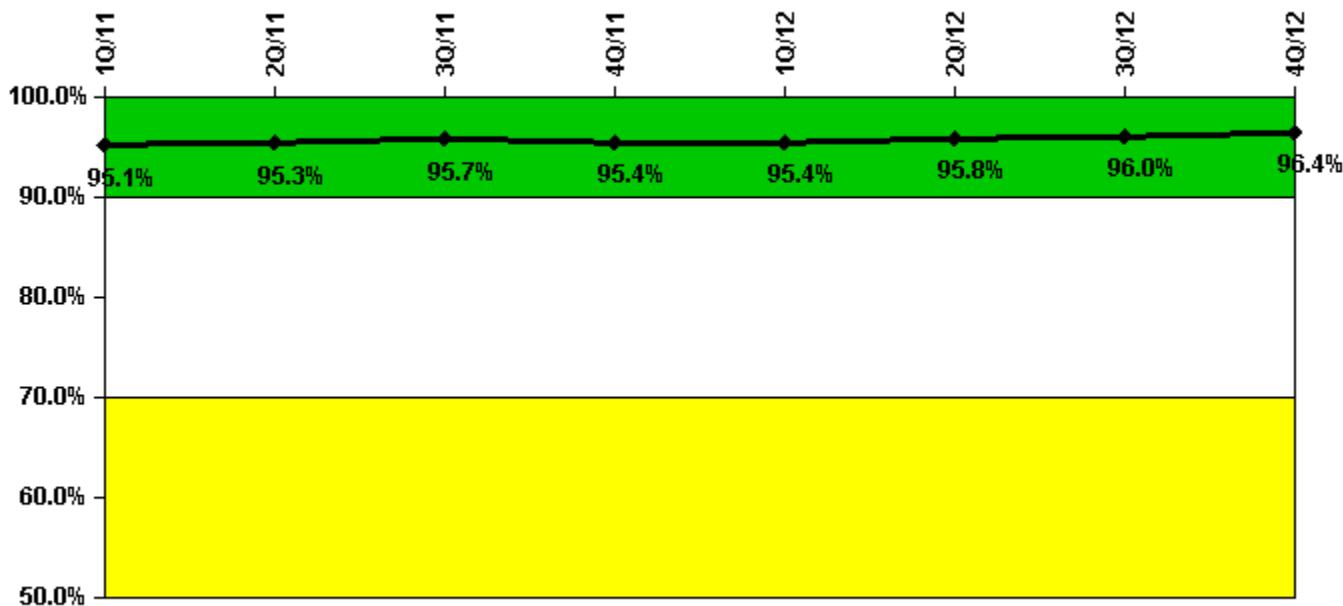
Notes

Reactor Coolant System Leakage	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum leakage	0.038	0.027	0.025	0.041	0.048	0.061	0.062	0.068	0.622	0.066	0.056	0.056
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.3	0.2	0.2	0.4	0.4	0.6	0.6	0.6	5.7	0.6	0.5	0.5
Reactor Coolant System Leakage	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum leakage	0.085	0.045	0.036	N/A	0.147	0.031	0.023	0.050	0.055	0.040	0.034	0.057
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.8	0.4	0.3	N/A	1.3	0.3	0.2	0.5	0.5	0.4	0.3	0.5

Licensee Comments:

6/12: Due to a refueling outage followed by power escalation, no RCS leakage data is available for April.

9/11: Elevated (0.6 gpm) RCS leak rate in September due to apparent packing leak occurring during pressurizer PORV block valve stroke test on September 22; leak was isolated the following day.

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

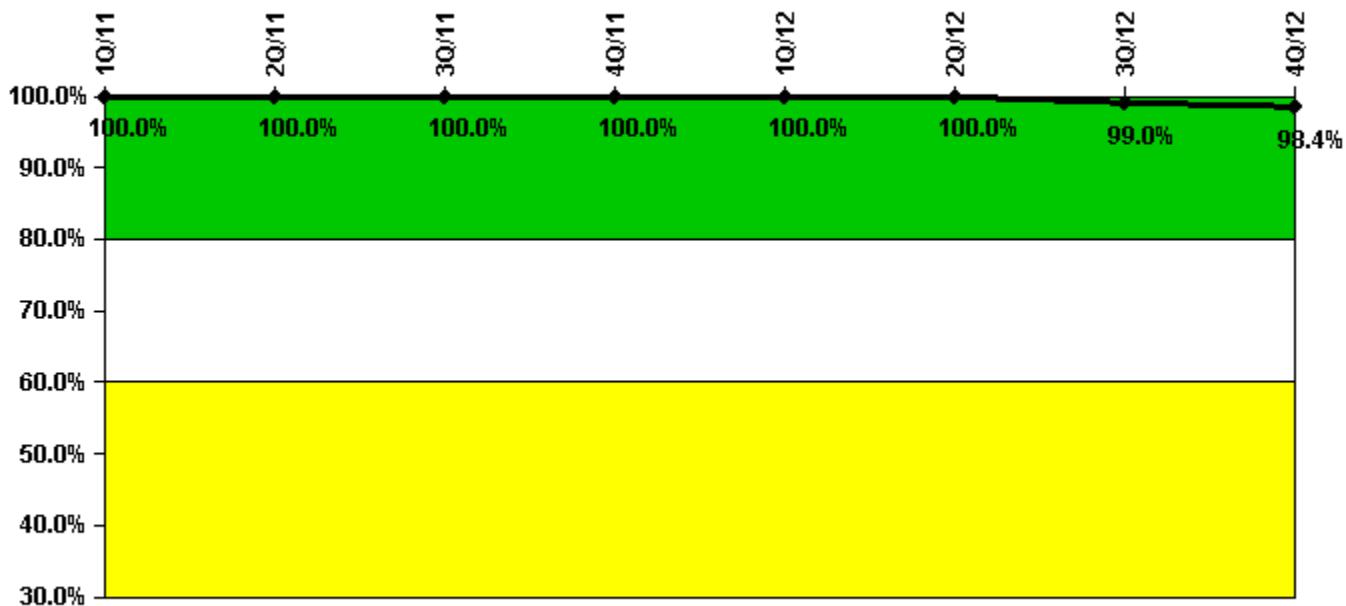
Notes

Drill/Exercise Performance	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful opportunities	43.0	16.0	41.0	0	34.0	24.0	41.0	66.0
Total opportunities	50.0	16.0	41.0	0	35.0	25.0	41.0	67.0
Indicator value	95.1%	95.3%	95.7%	95.4%	95.4%	95.8%	96.0%	96.4%

Licensee Comments:

1Q/11: Previously submitted data for February 2011 was revised to correct an error in grading drill results. Data was changed from "19 of 21 successful" to "18 of 21 successful". This changes the first quarter 2011 total from "44 of 50 successful" to "43 of 50 successful". This change has no impact on performance indicator color.

ERO Drill Participation



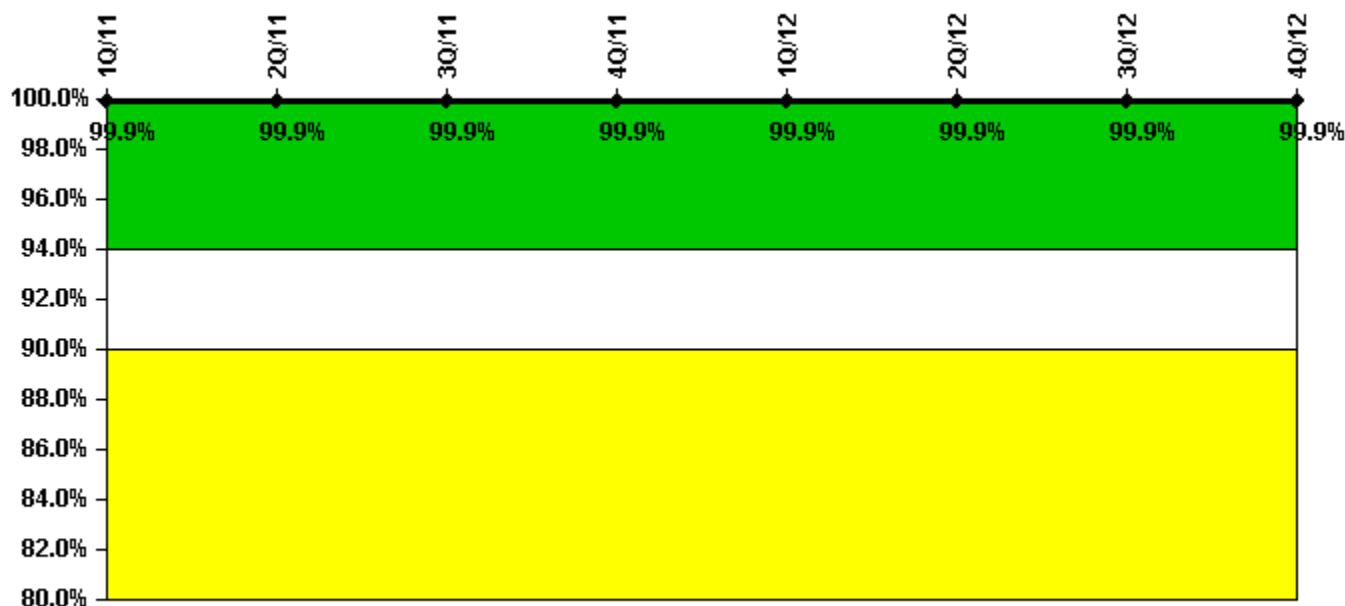
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Participating Key personnel	92.0	92.0	91.0	91.0	91.0	89.0	95.0	126.0
Total Key personnel	92.0	92.0	91.0	91.0	91.0	89.0	96.0	128.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.0%	98.4%

Licensee Comments: none

Alert & Notification System



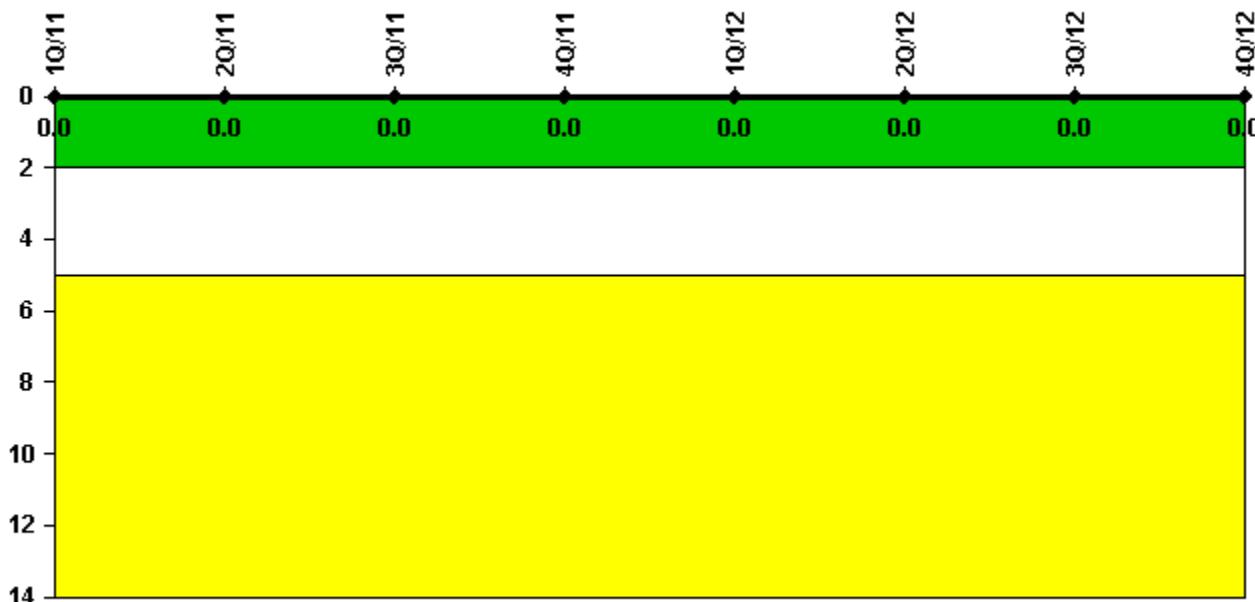
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful siren-tests	1119	1117	1120	1120	1118	1118	1120	1120
Total sirens-tests	1120	1119	1120	1120	1120	1119	1120	1120
Indicator value	99.9%							

Licensee Comments: none

Occupational Exposure Control Effectiveness

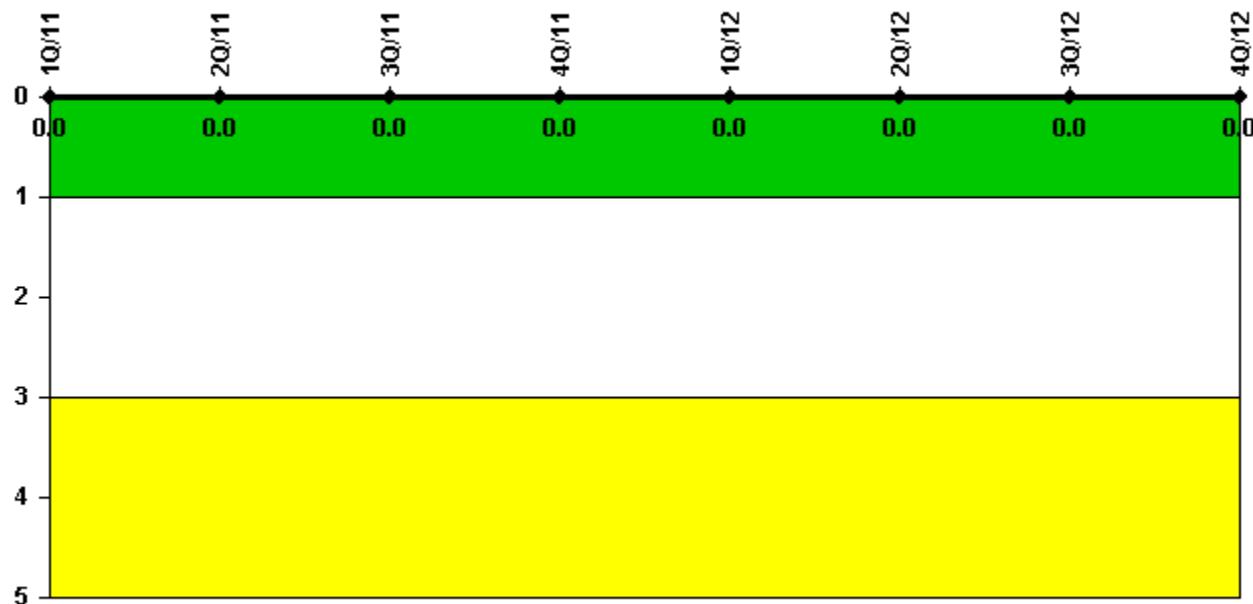


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

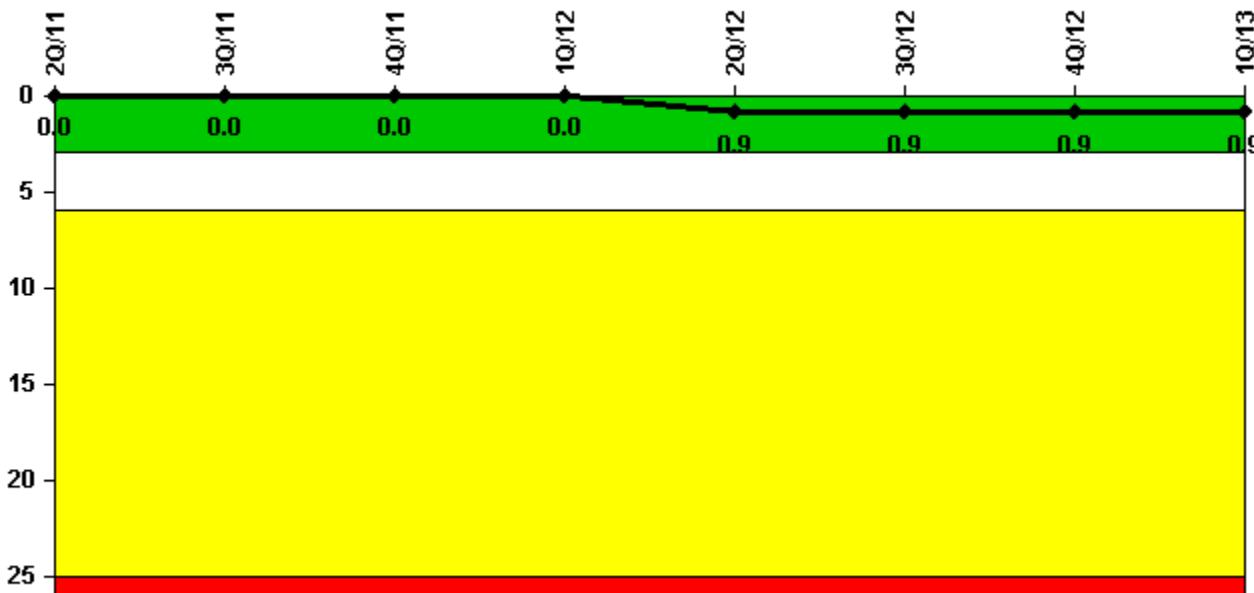
Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

D.C. Cook 2**1Q/2013 Performance Indicators**

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

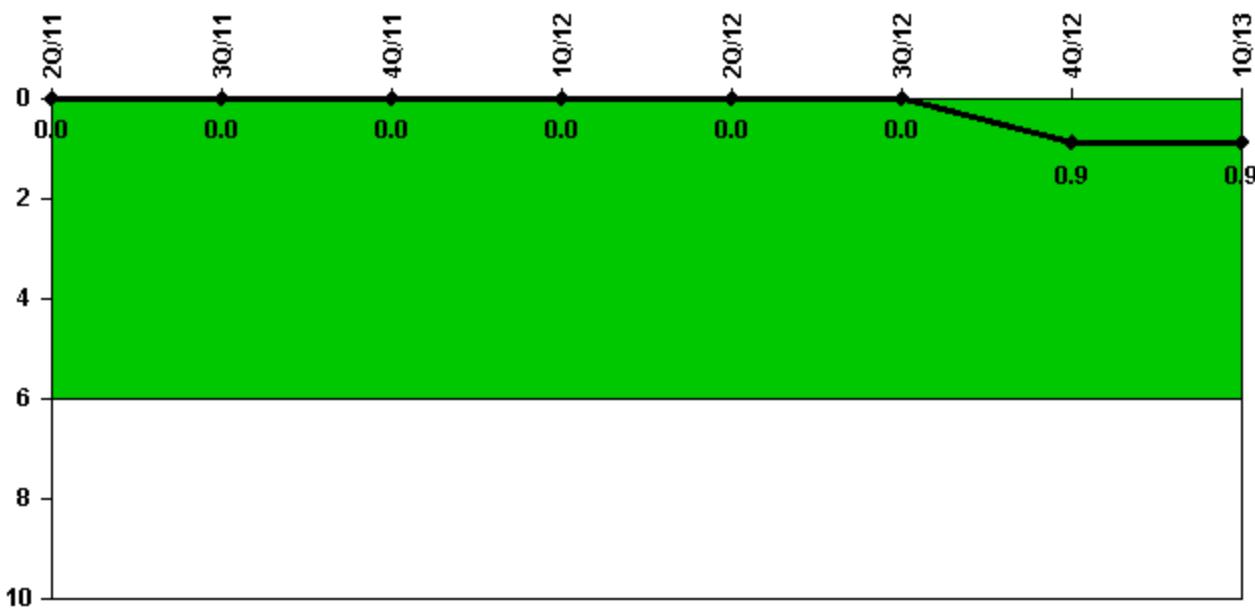
Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2184.0	2208.0	2209.0	1919.0	1510.6	2208.0	2209.0	2159.0
Indicator value	0	0	0	0	0.9	0.9	0.9	0.9

Licensee Comments:

2Q/12: On April 30, the reactor automatically tripped due to a main generator trip caused by an incorrect protective relay setting.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

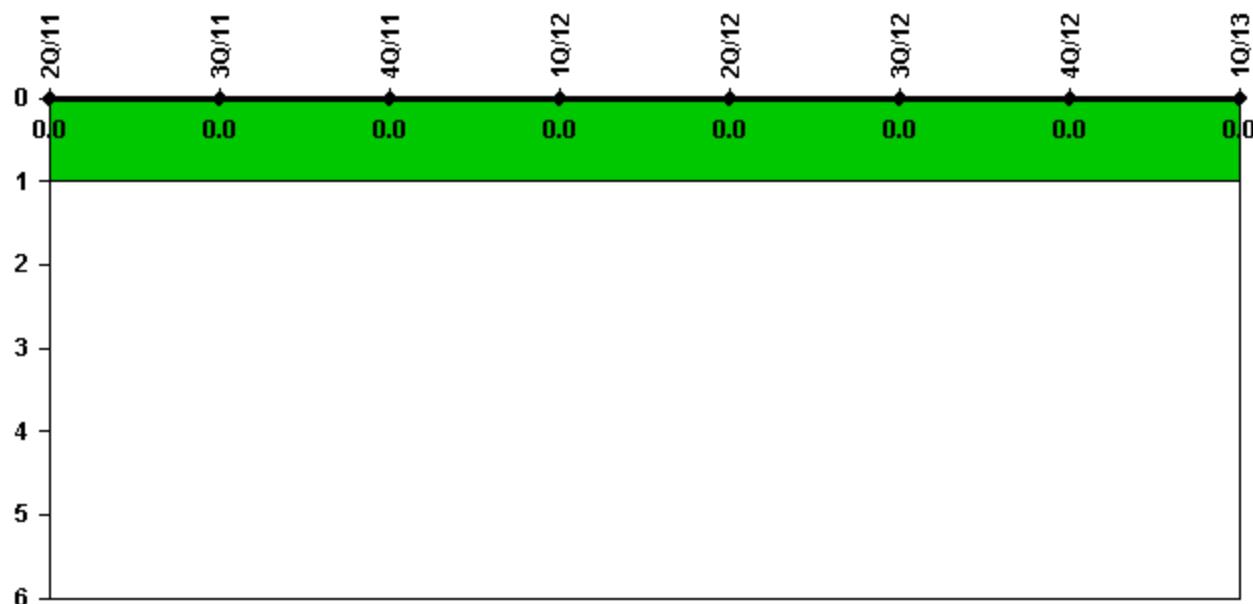
Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2184.0	2208.0	2209.0	1919.0	1510.6	2208.0	2209.0	2159.0
Indicator value	0	0	0	0	0	0	0.9	0.9

Licensee Comments:

4Q/12: Downpower to 19% due to 2-BLP-130, Steam Generator Narrow Range Level Transmitter, leak on 11/28/12.

Unplanned Scrams with Complications



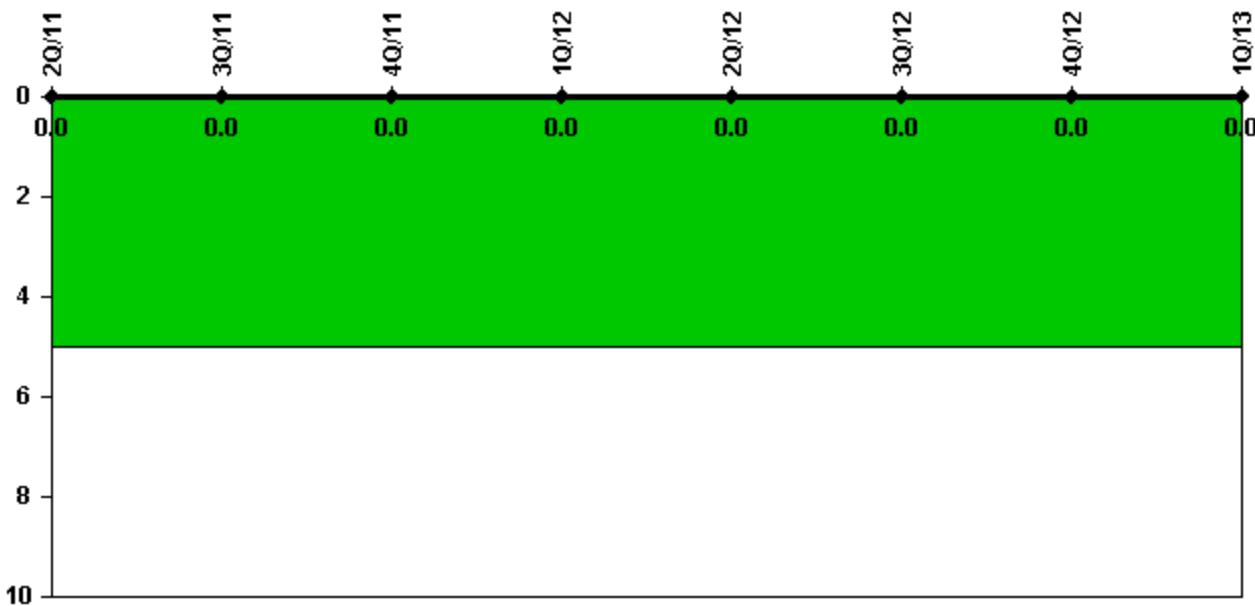
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0							

Licensee Comments: none

Safety System Functional Failures (PWR)



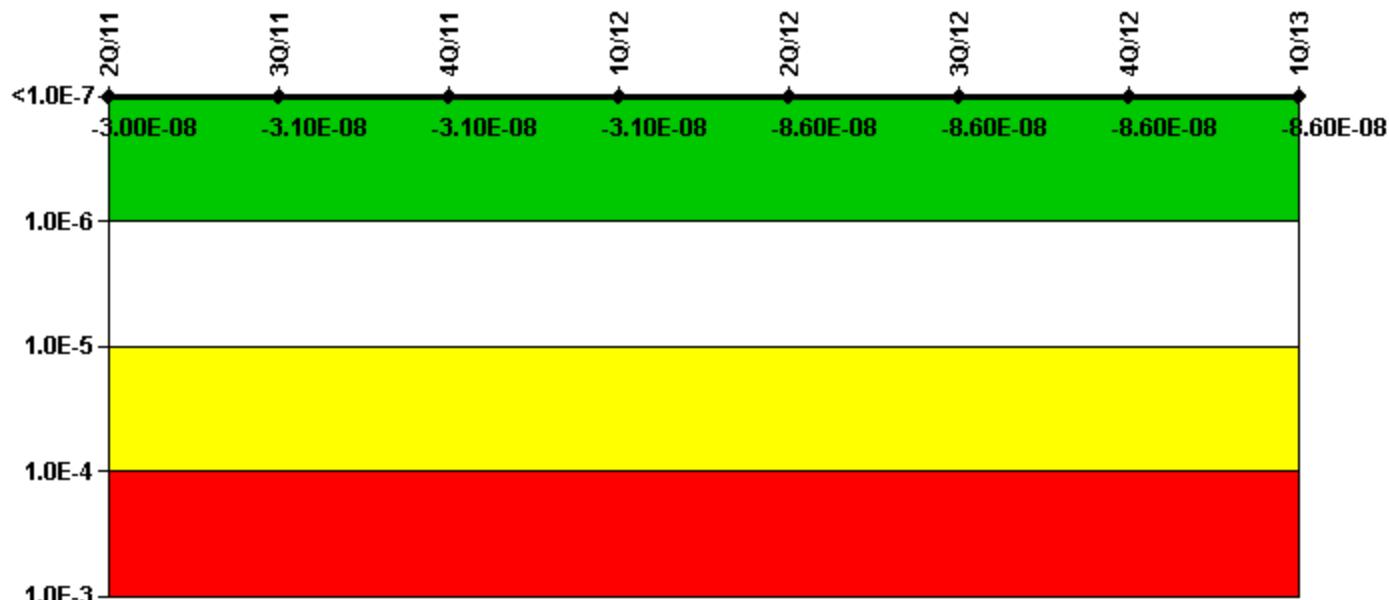
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



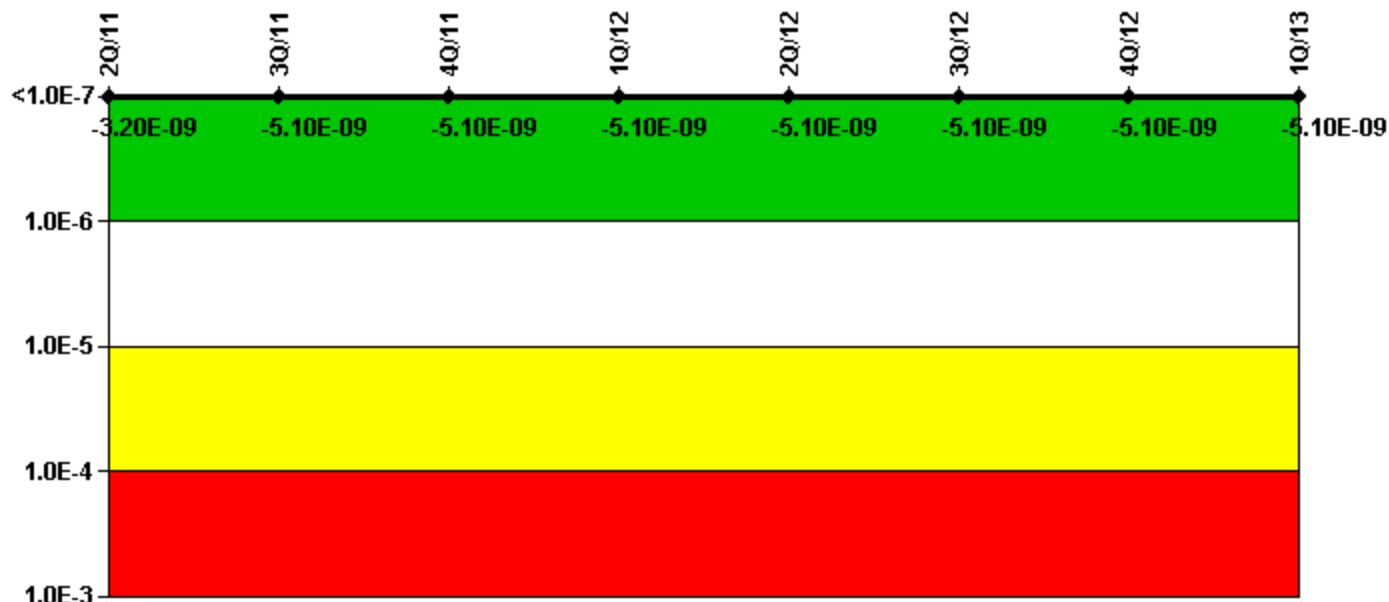
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	3.07E-10	-2.13E-10	-2.39E-10	-2.32E-10	2.06E-10	-5.99E-11	-6.18E-11	-4.62E-11
URI (Δ CDF)	-2.99E-08	-3.11E-08	-3.11E-08	-3.11E-08	-8.64E-08	-8.64E-08	-8.64E-08	-8.64E-08
PLE	NO							
Indicator value	-3.00E-08	-3.10E-08	-3.10E-08	-3.10E-08	-8.60E-08	-8.60E-08	-8.60E-08	-8.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



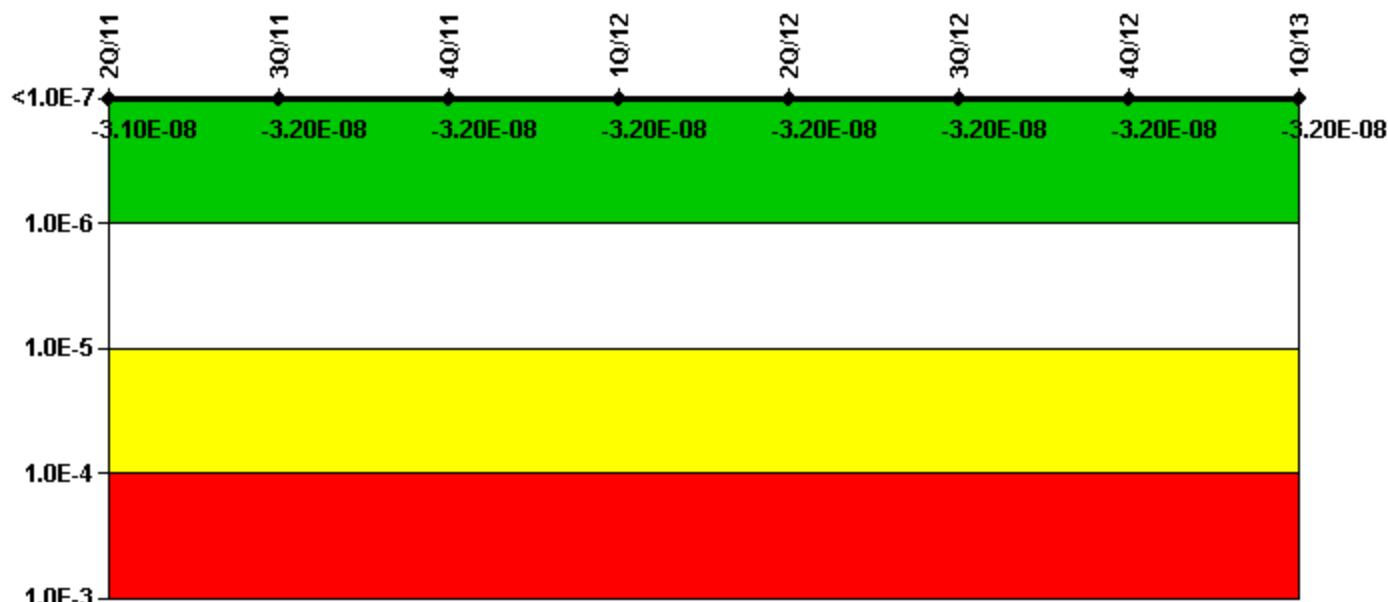
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	-2.66E-11							
URI (Δ CDF)	-3.19E-09	-5.04E-09						
PLE	NO							
Indicator value	-3.20E-09	-5.10E-09						

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



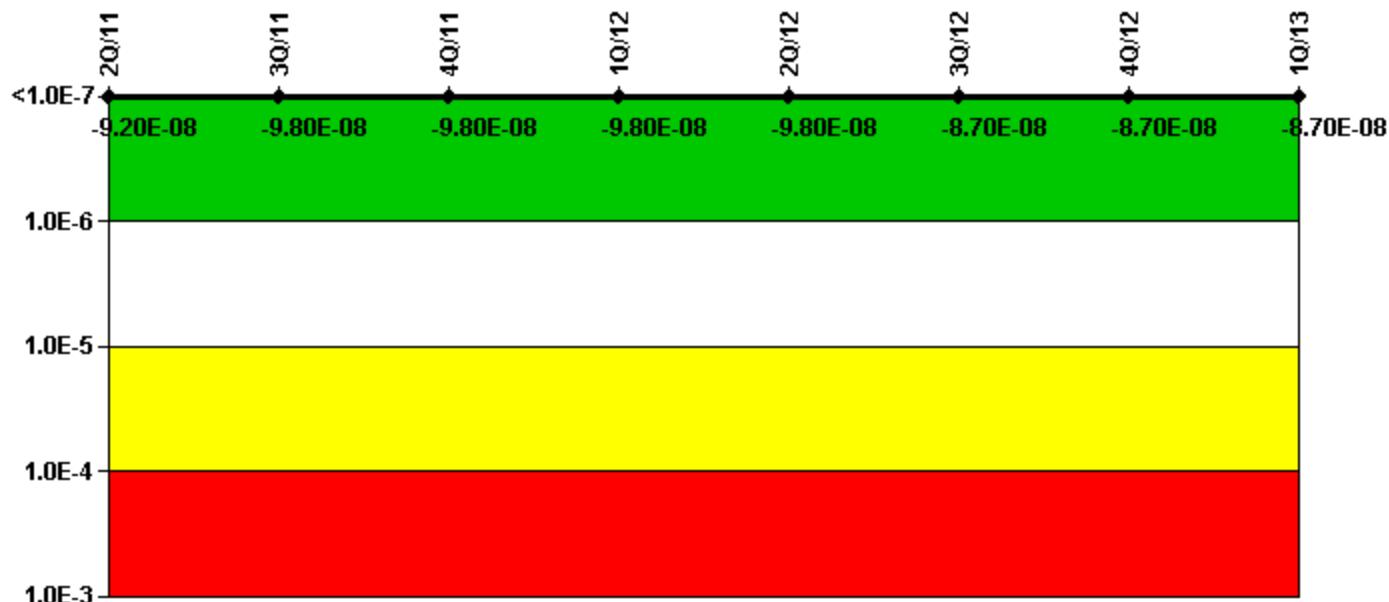
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	-2.85E-11	-2.85E-11	-2.85E-11	-2.70E-11	-2.70E-11	-7.22E-12	-7.22E-12	-9.86E-12
URI (Δ CDF)	-3.12E-08	-3.20E-08						
PLE	NO							
Indicator value	-3.10E-08	-3.20E-08						

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

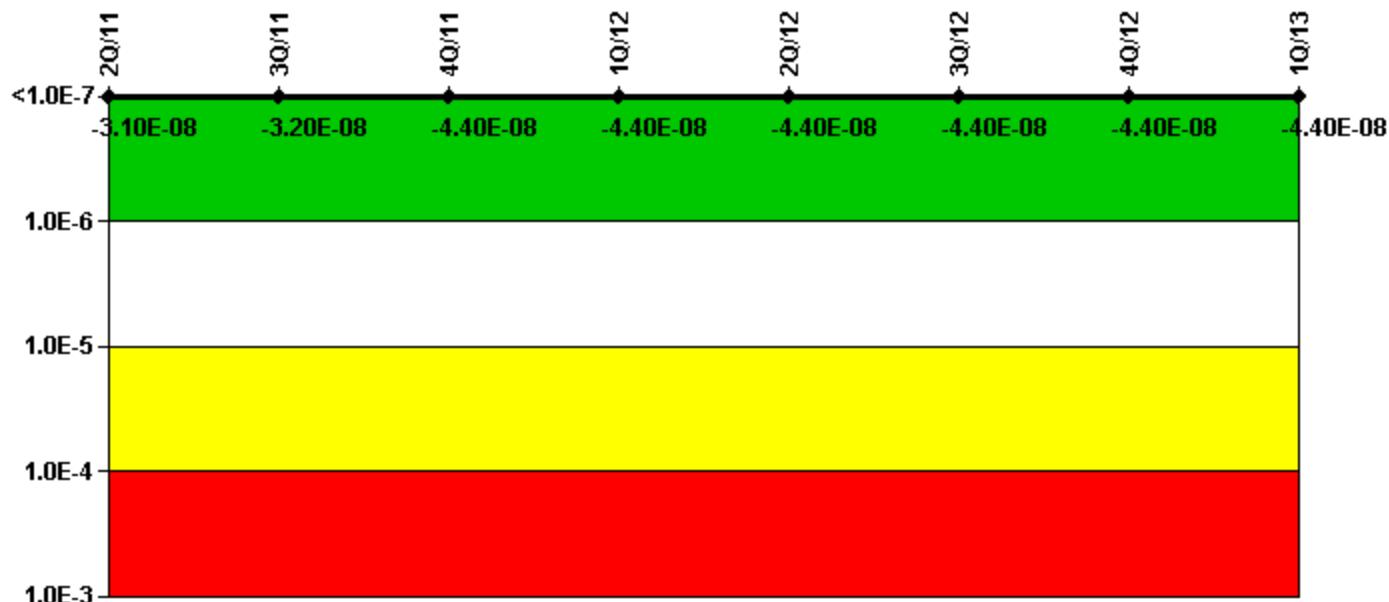
Mitigating Systems Performance Index, Residual Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13	-1.68E-13	-2.07E-13	-2.07E-13
URI (Δ CDF)	-9.20E-08	-9.83E-08	-9.83E-08	-9.83E-08	-9.83E-08	-8.69E-08	-8.69E-08	-8.69E-08
PLE	NO							
Indicator value	-9.20E-08	-9.80E-08	-9.80E-08	-9.80E-08	-9.80E-08	-8.70E-08	-8.70E-08	-8.70E-08

Licensee Comments:

2Q/12: The MSPI Basis document was revised to exclude two Unit 2 RHR heat exchanger CCW outlet valves from monitoring based on their Birnbaum importance.

1Q/12: March 31, 2012 test results for valve 2-CMO-429 are currently being evaluated to determine if a failure occurred per MSPI criteria. If it is determined that an MSPI equipment failure occurred, a change report will be submitted.

Mitigating Systems Performance Index, Cooling Water Systems



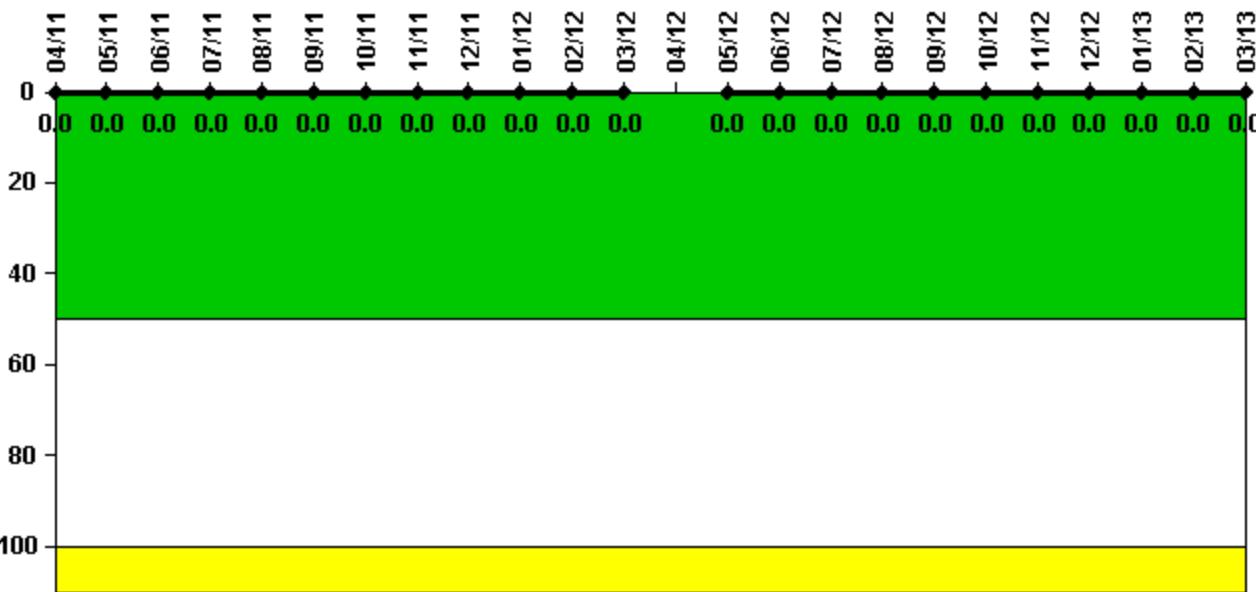
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	8.50E-12	2.08E-12	-1.29E-11	3.37E-11	3.33E-11	6.99E-11	6.99E-11	-2.61E-12
URI (Δ CDF)	-3.07E-08	-3.19E-08	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08
PLE	NO							
Indicator value	-3.10E-08	-3.20E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

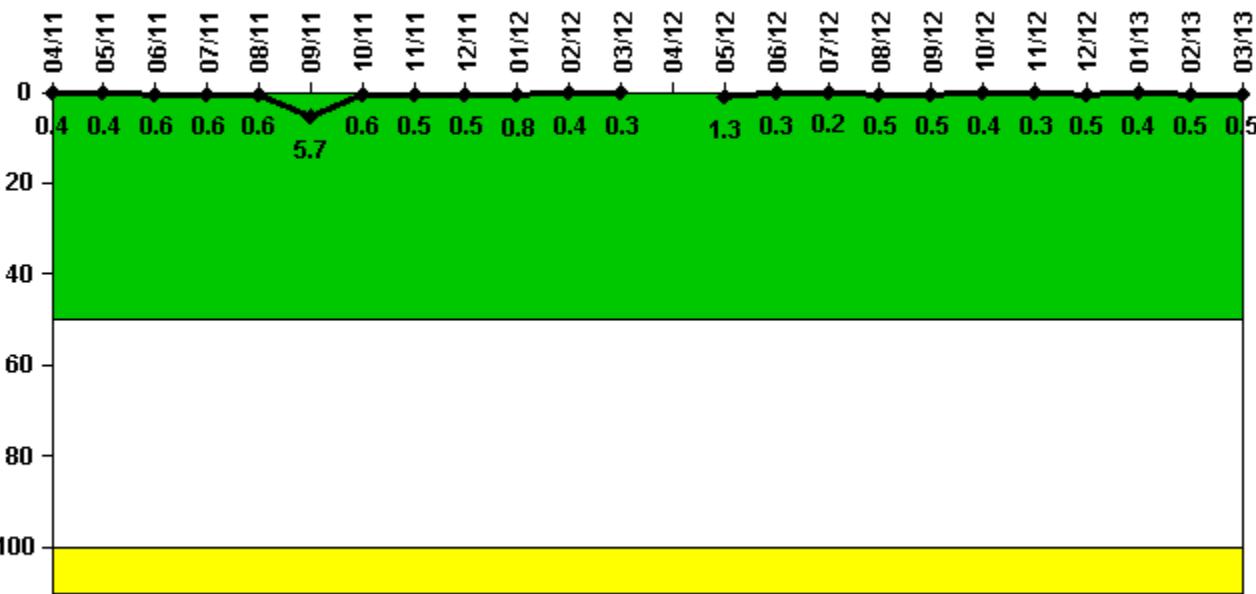
Notes

Reactor Coolant System Activity	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum activity	0.000146	0.000152	0.000167	0.000163	0.000167	0.000170	0.000188	0.000190	0.000203	0.000200	0.000211	0.000152
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum activity	N/A	0.000097	0.000099	0.000104	0.000205	0.000120	0.000123	0.000160	0.000130	0.000213	0.000190	0.000176
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments:

6/12: Due to a refueling outage followed by power escalation, no RCS activity data is available for April.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

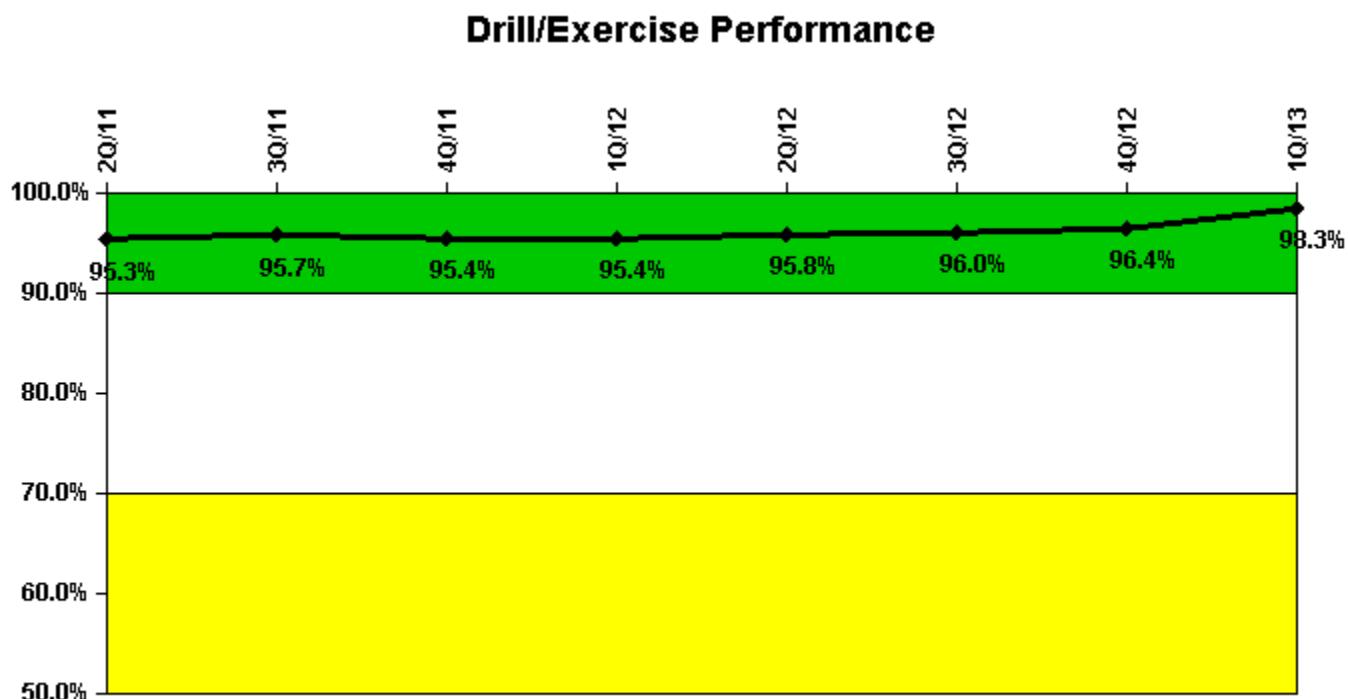
Notes

Reactor Coolant System Leakage	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum leakage	0.041	0.048	0.061	0.062	0.068	0.622	0.066	0.056	0.056	0.085	0.045	0.036
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.4	0.4	0.6	0.6	0.6	5.7	0.6	0.5	0.5	0.8	0.4	0.3
Reactor Coolant System Leakage	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum leakage	N/A	0.147	0.031	0.023	0.050	0.055	0.040	0.034	0.057	0.039	0.054	0.056
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	N/A	1.3	0.3	0.2	0.5	0.5	0.4	0.3	0.5	0.4	0.5	0.5

Licensee Comments:

6/12: Due to a refueling outage followed by power escalation, no RCS leakage data is available for April.

9/11: Elevated (0.6 gpm) RCS leak rate in September due to apparent packing leak occurring during pressurizer PORV block valve stroke test on September 22; leak was isolated the following day.



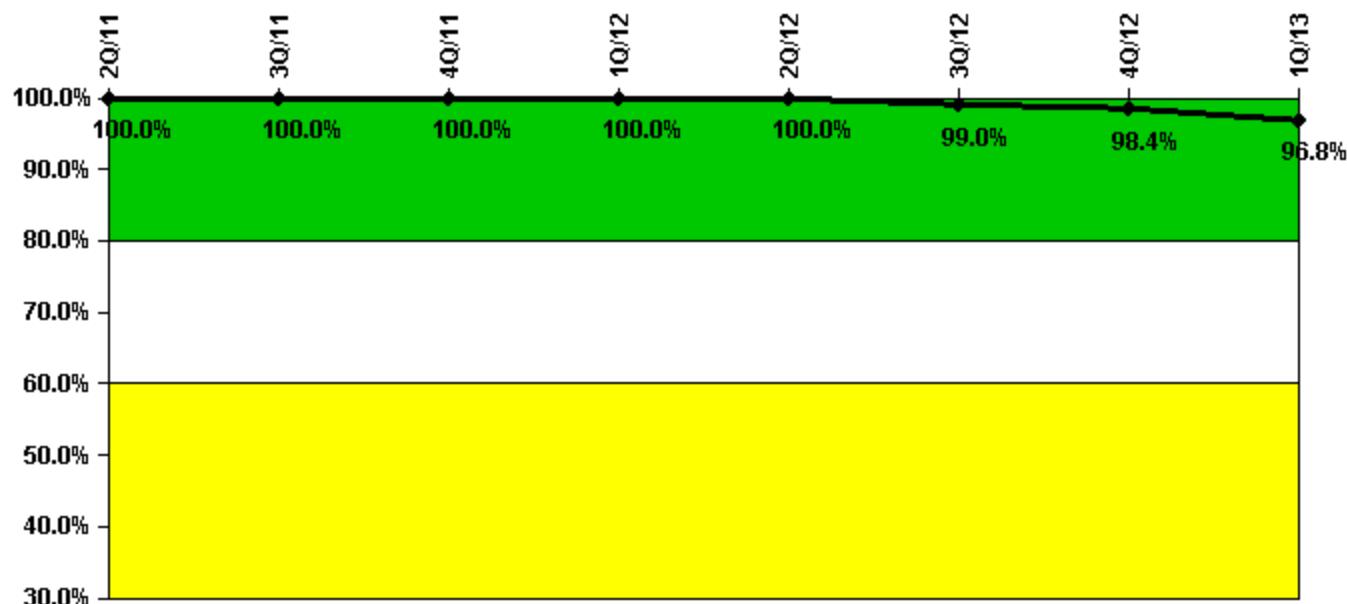
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful opportunities	16.0	41.0	0	34.0	24.0	41.0	66.0	68.0
Total opportunities	16.0	41.0	0	35.0	25.0	41.0	67.0	70.0
Indicator value	95.3%	95.7%	95.4%	95.4%	95.8%	96.0%	96.4%	98.3%

Licensee Comments: none

ERO Drill Participation



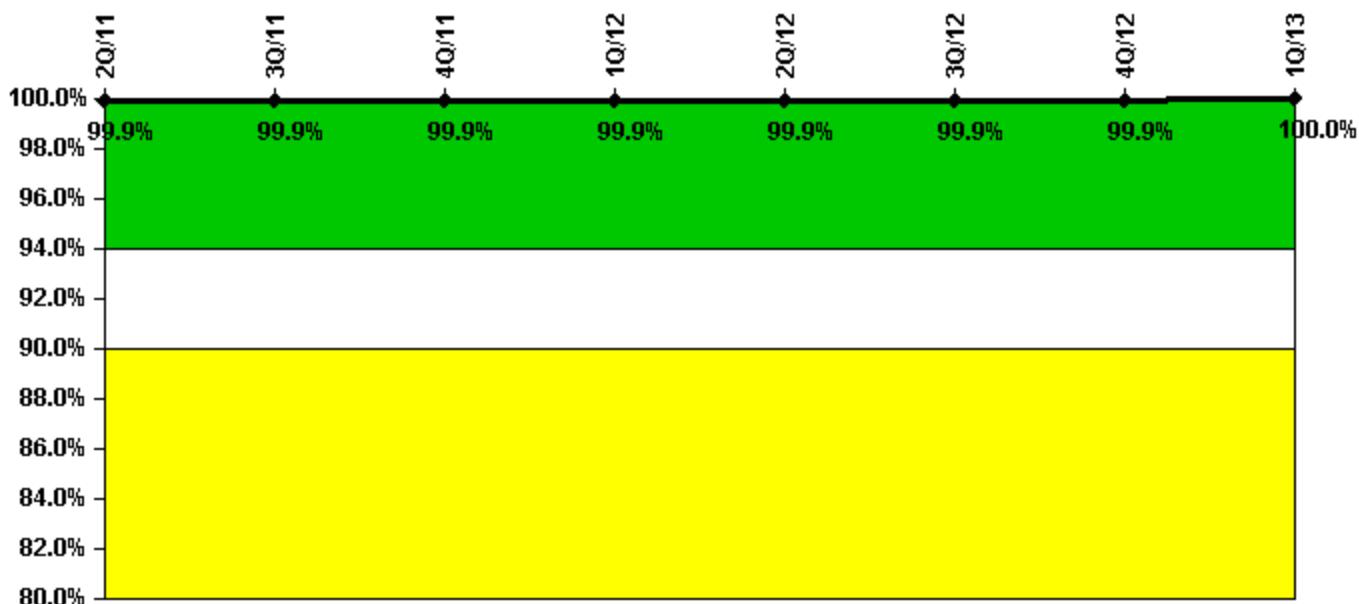
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Participating Key personnel	92.0	91.0	91.0	91.0	89.0	95.0	126.0	120.0
Total Key personnel	92.0	91.0	91.0	91.0	89.0	96.0	128.0	124.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	99.0%	98.4%	96.8%

Licensee Comments: none

Alert & Notification System



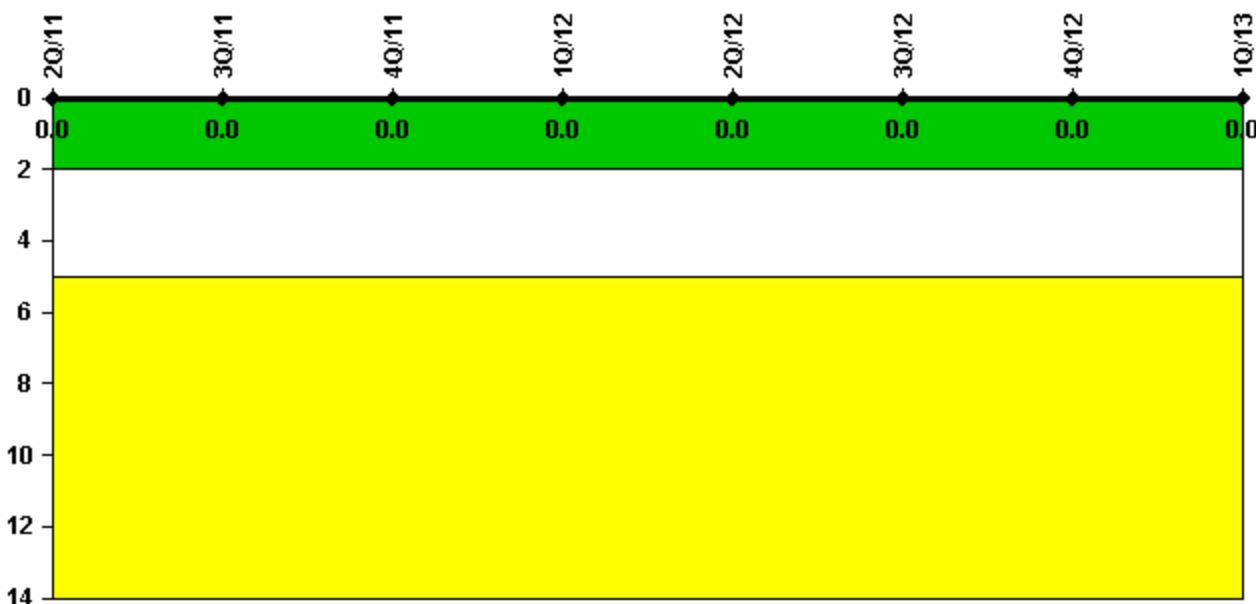
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful siren-tests	1117	1120	1120	1118	1118	1120	1120	1120
Total sirens-tests	1119	1120	1120	1120	1119	1120	1120	1120
Indicator value	99.9%	100.0%						

Licensee Comments: none

Occupational Exposure Control Effectiveness



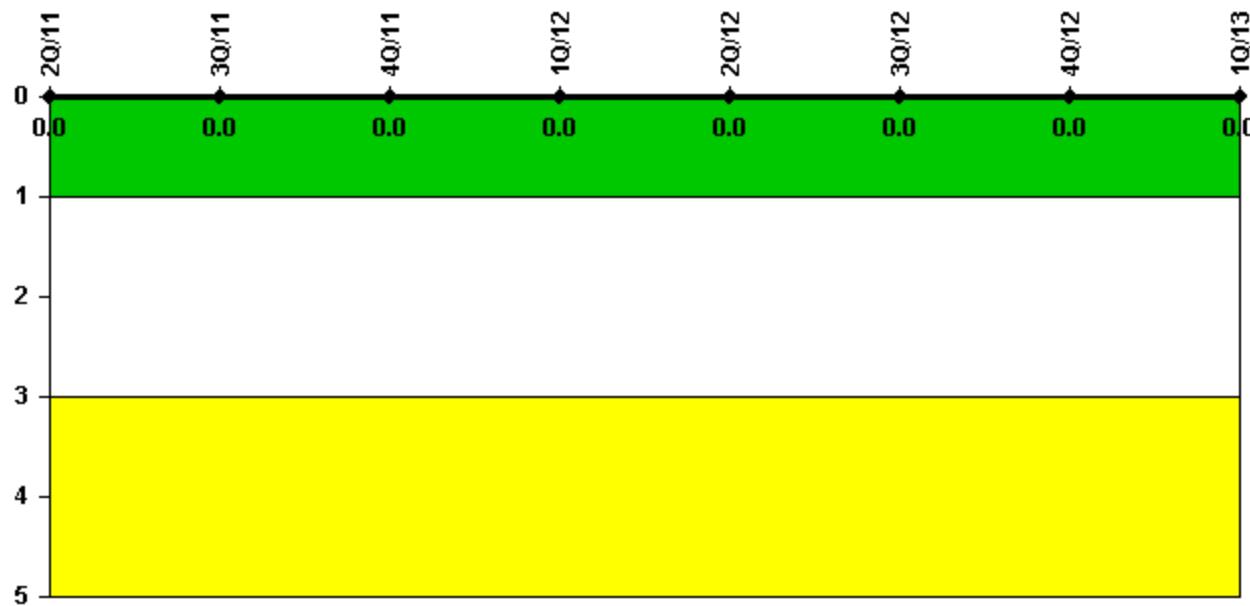
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: April 23, 2013

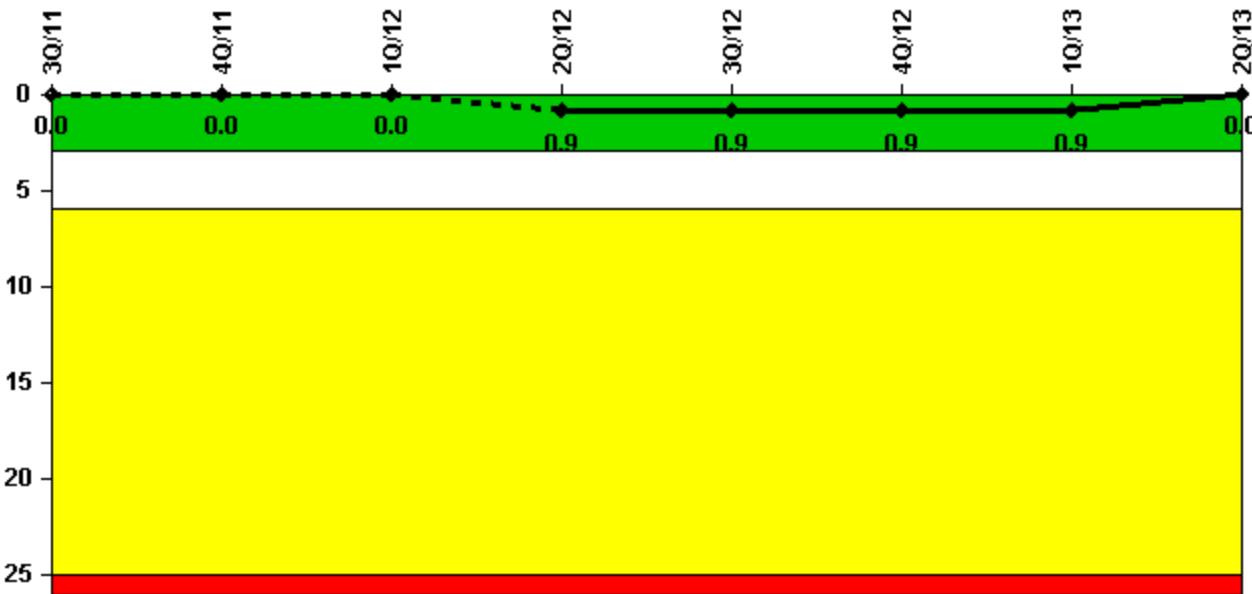
D.C. Cook 2

2Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

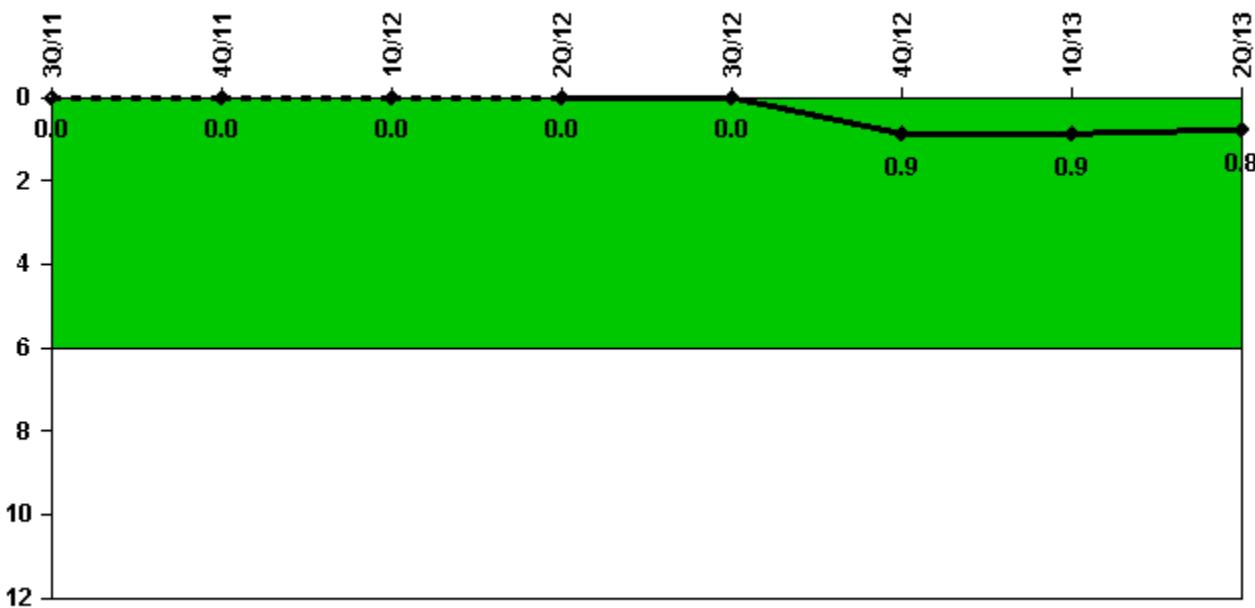
Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2208.0	2209.0	1919.0	1510.6	2208.0	2209.0	2159.0	2184.0
Indicator value	0	0	0	0.9	0.9	0.9	0.9	0

Licensee Comments:

2Q/12: On April 30, the reactor automatically tripped due to a main generator trip caused by an incorrect protective relay setting.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

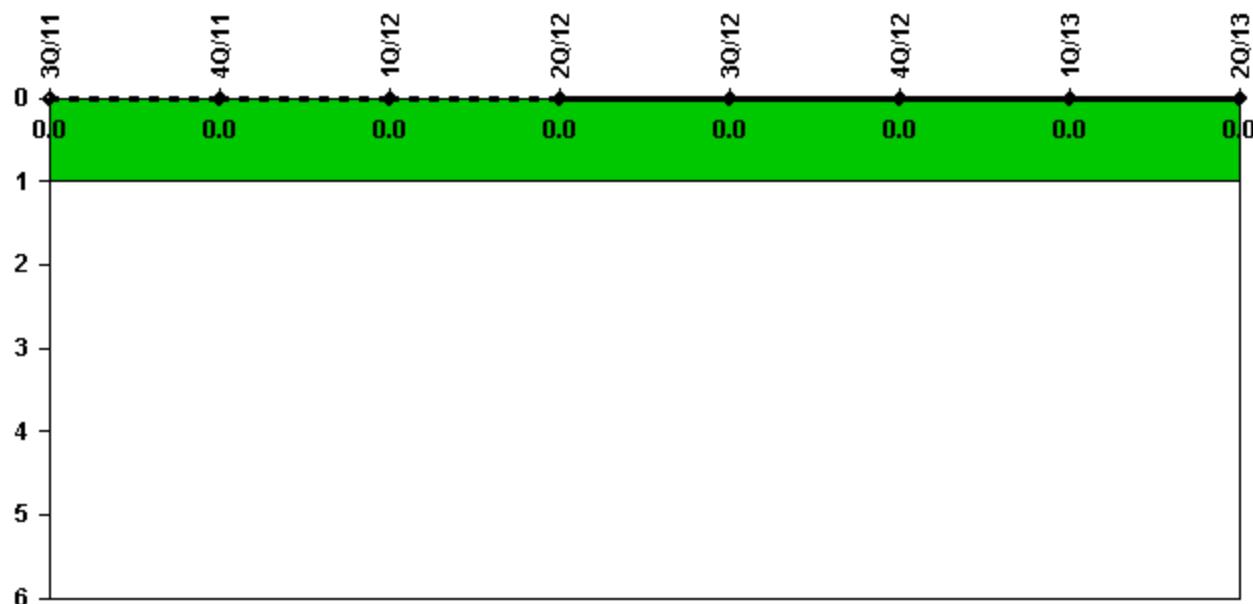
Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	1919.0	1510.6	2208.0	2209.0	2159.0	2184.0
Indicator value	0	0	0	0	0	0.9	0.9	0.8

Licensee Comments:

4Q/12: Downpower to 19% due to 2-BLP-130, Steam Generator Narrow Range Level Transmitter, leak on 11/28/12.

Unplanned Scrams with Complications



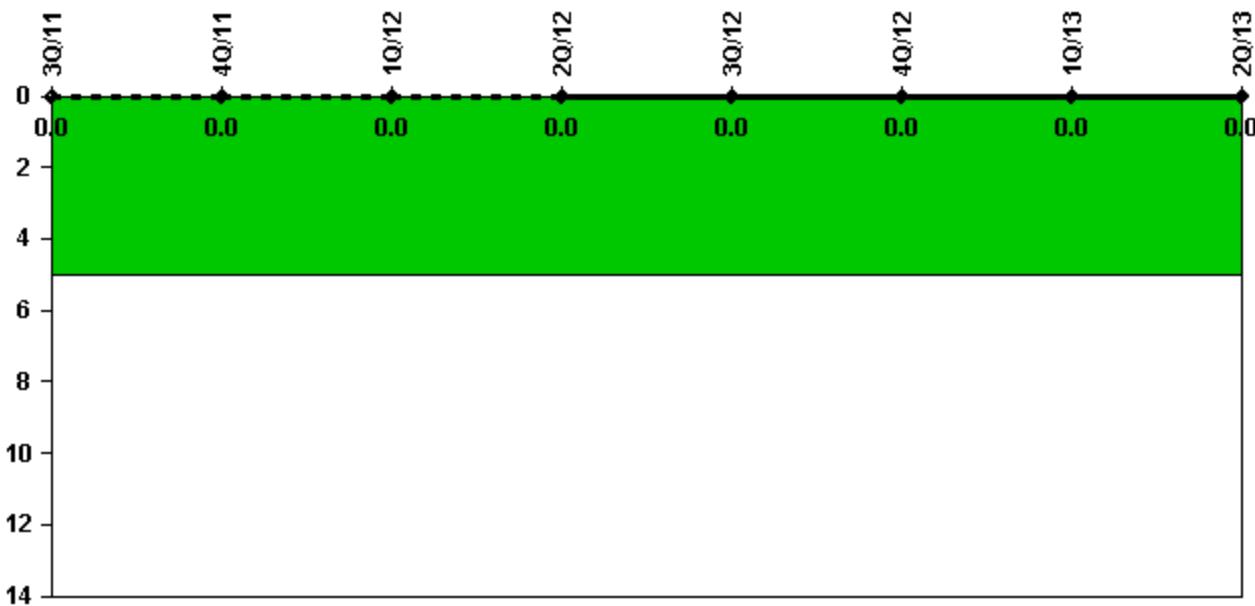
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0							

Licensee Comments: none

Safety System Functional Failures (PWR)



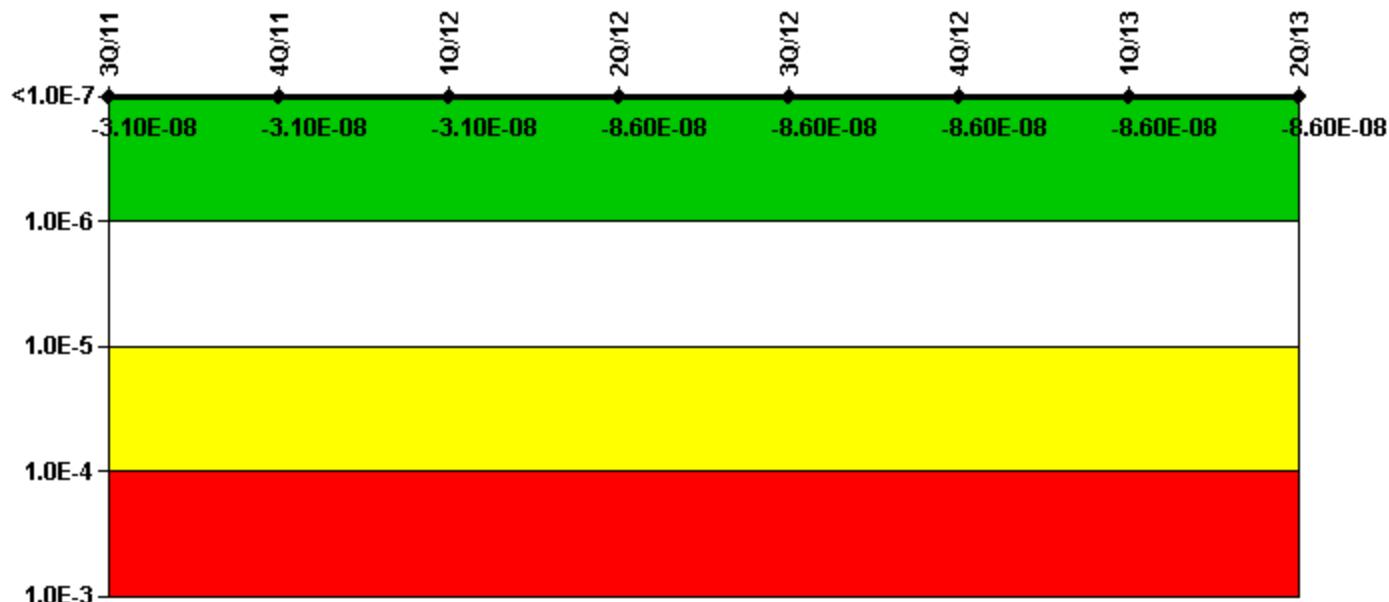
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



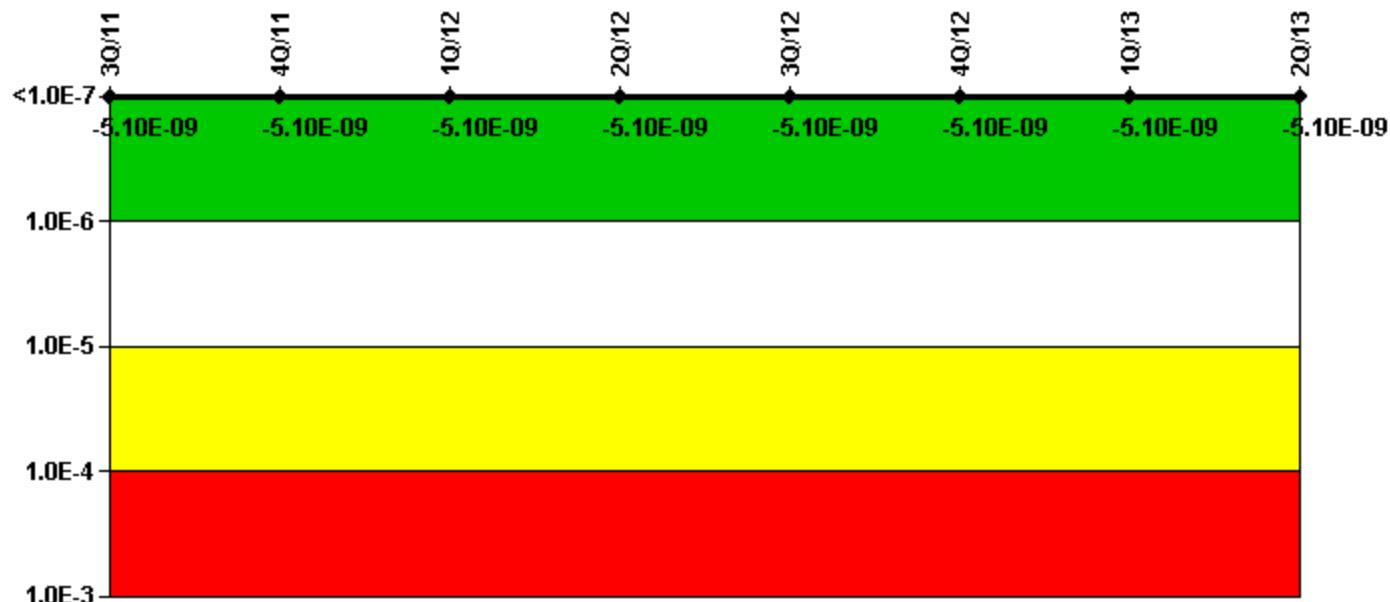
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	-2.13E-10	-2.39E-10	-2.32E-10	2.06E-10	-5.99E-11	-6.18E-11	-4.62E-11	-4.69E-11
URI (Δ CDF)	-3.11E-08	-3.11E-08	-3.11E-08	-8.64E-08	-8.64E-08	-8.64E-08	-8.64E-08	-8.64E-08
PLE	NO							
Indicator value	-3.10E-08	-3.10E-08	-3.10E-08	-8.60E-08	-8.60E-08	-8.60E-08	-8.60E-08	-8.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



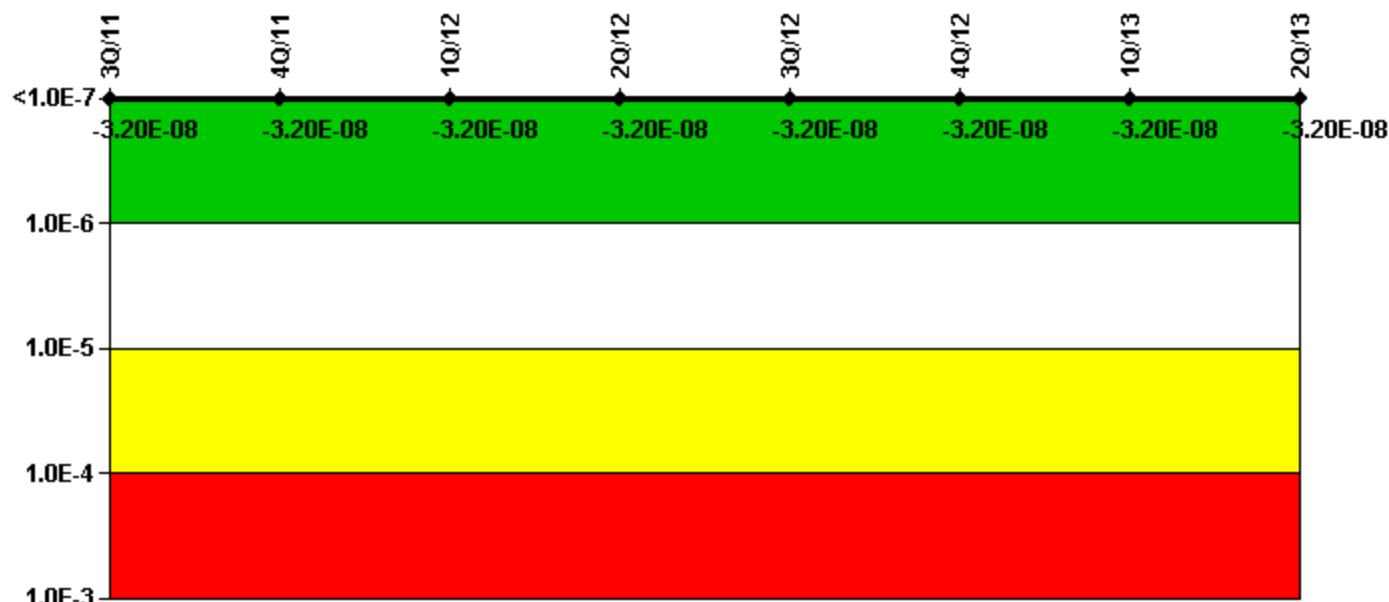
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	-2.66E-11							
URI (Δ CDF)	-5.04E-09							
PLE	NO							
Indicator value	-5.10E-09							

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



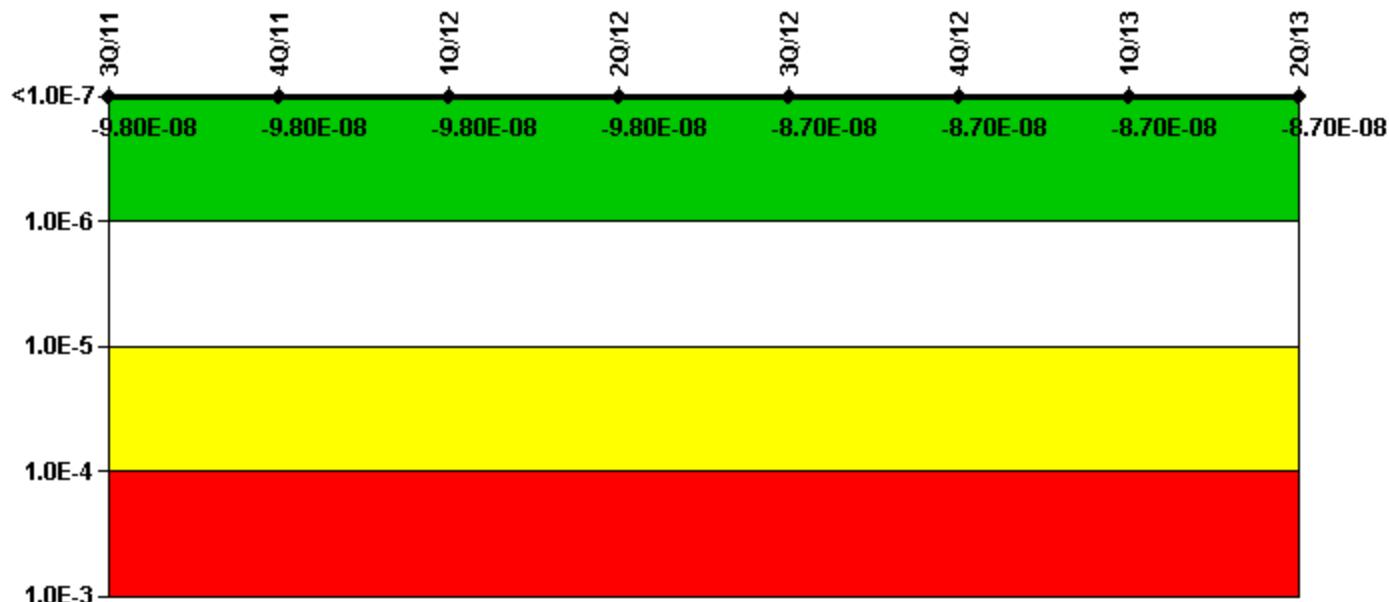
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	-2.85E-11	-2.85E-11	-2.70E-11	-2.70E-11	-7.22E-12	-7.22E-12	-9.86E-12	-9.86E-12
URI (Δ CDF)	-3.20E-08							
PLE	NO							
Indicator value	-3.20E-08							

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

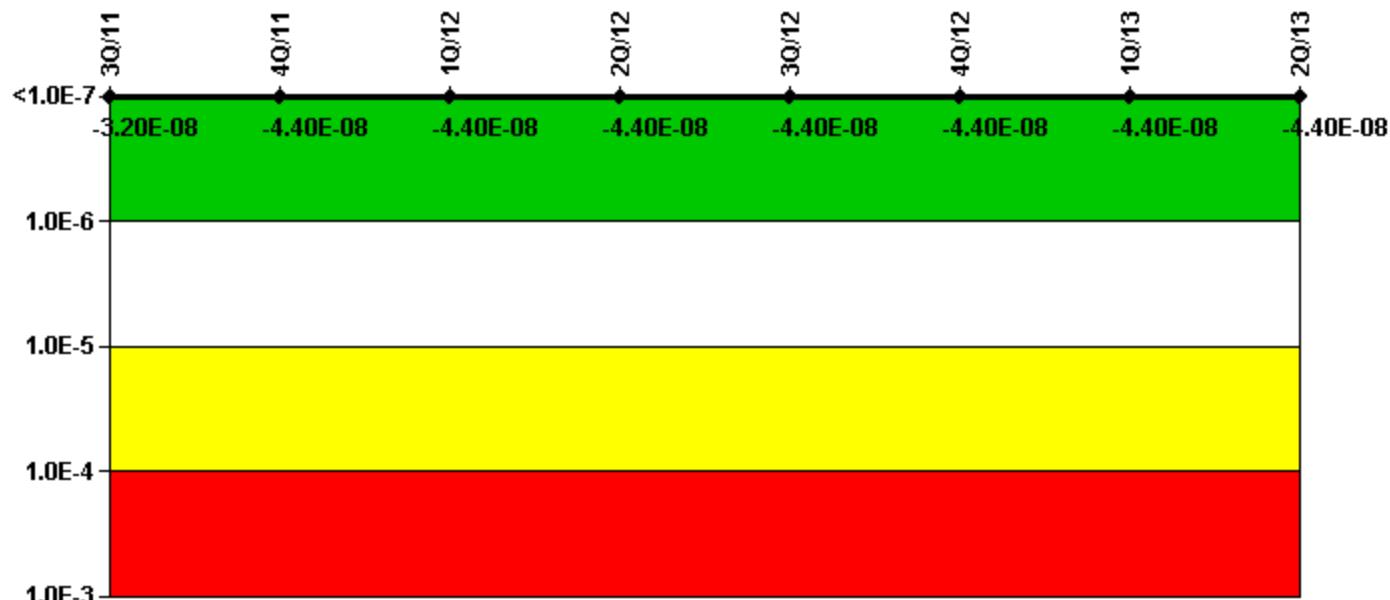
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	$-3.23E-13$	$-3.23E-13$	$-3.23E-13$	$-3.23E-13$	$-1.68E-13$	$-2.07E-13$	$-2.07E-13$	$-3.23E-13$
URI (Δ CDF)	$-9.83E-08$	$-9.83E-08$	$-9.83E-08$	$-9.83E-08$	$-8.69E-08$	$-8.69E-08$	$-8.69E-08$	$-8.69E-08$
PLE	NO							
Indicator value	$-9.80E-08$	$-9.80E-08$	$-9.80E-08$	$-9.80E-08$	$-8.70E-08$	$-8.70E-08$	$-8.70E-08$	$-8.70E-08$

Licensee Comments:

2Q/12: The MSPI Basis document was revised to exclude two Unit 2 RHR heat exchanger CCW outlet valves from monitoring based on their Birnbaum importance.

1Q/12: March 31, 2012 test results for valve 2-CMO-429 are currently being evaluated to determine if a failure occurred per MSPI criteria. If it is determined that an MSPI equipment failure occurred, a change report will be submitted.

Mitigating Systems Performance Index, Cooling Water Systems



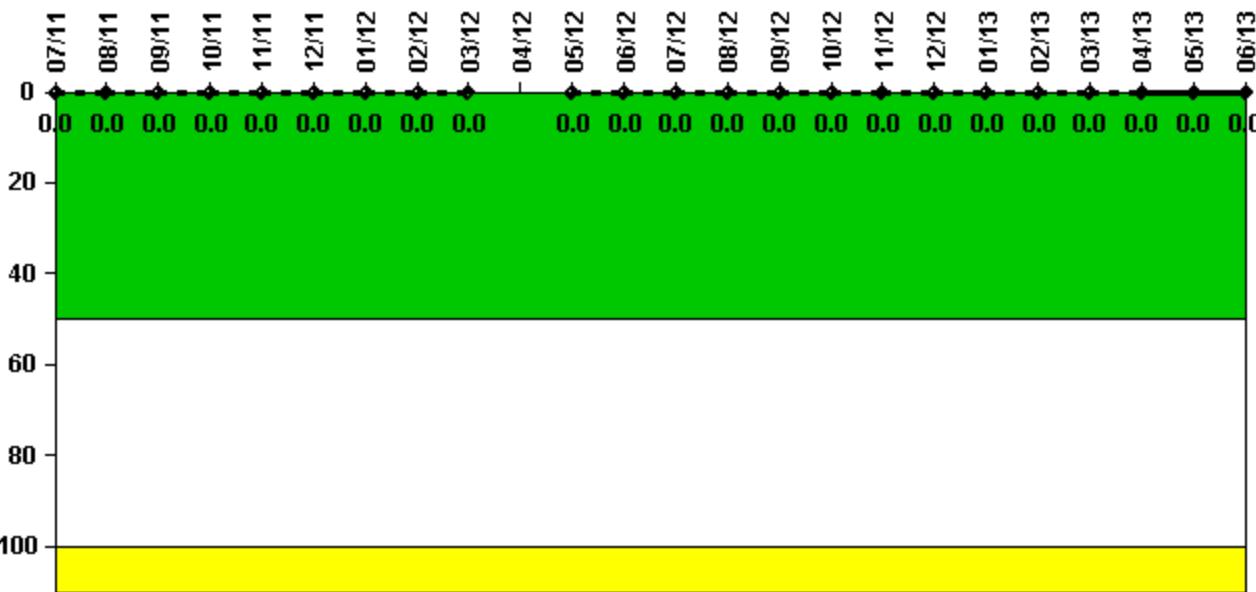
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	2.08E-12	-1.29E-11	3.37E-11	3.33E-11	6.99E-11	6.99E-11	-2.61E-12	-2.61E-12
URI (Δ CDF)	-3.19E-08	-4.36E-08						
PLE	NO							
Indicator value	-3.20E-08	-4.40E-08						

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

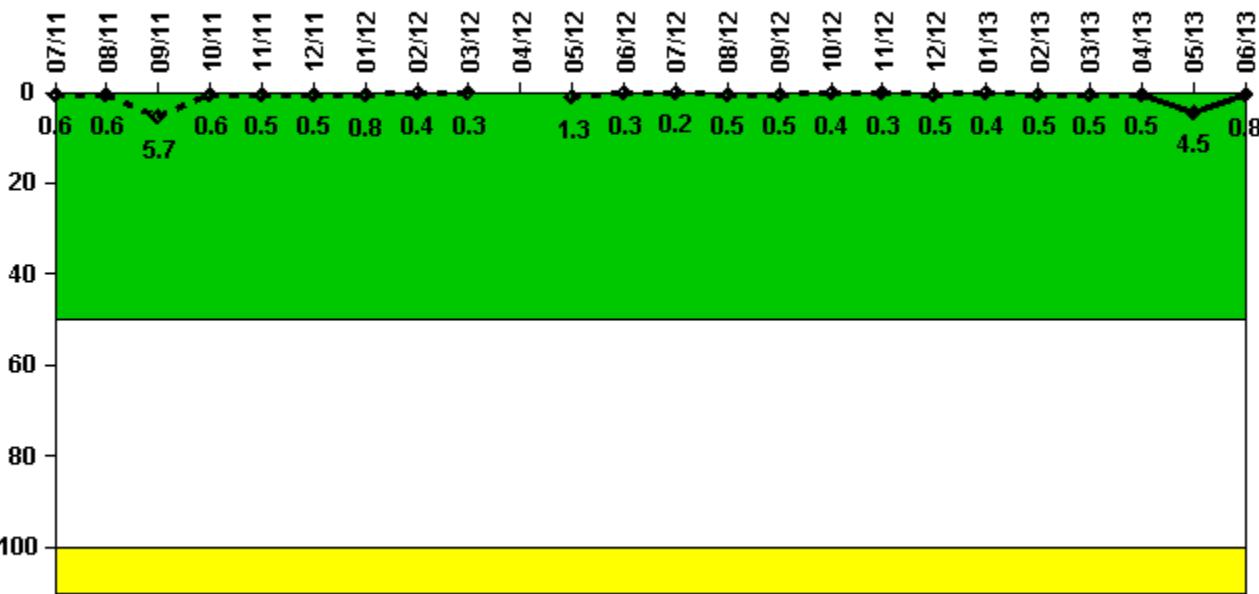
Notes

Reactor Coolant System Activity	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum activity	0.000163	0.000167	0.000170	0.000188	0.000190	0.000203	0.000200	0.000211	0.000152	N/A	0.000097	0.000099
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	N/A	0	0
Reactor Coolant System Activity	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum activity	0.000104	0.000205	0.000120	0.000123	0.000160	0.000130	0.000213	0.000190	0.000176	0.000162	0.000168	0.000175
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments:

6/12: Due to a refueling outage followed by power escalation, no RCS activity data is available for April.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

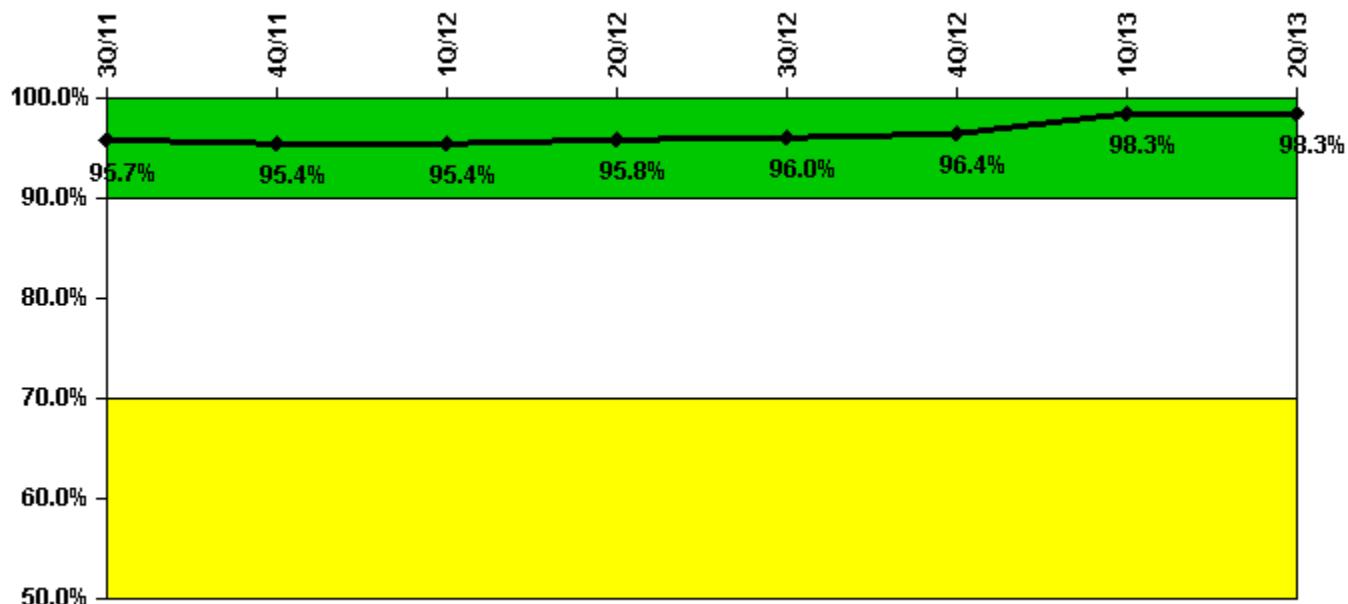
Reactor Coolant System Leakage	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum leakage	0.062	0.068	0.622	0.066	0.056	0.056	0.085	0.045	0.036	N/A	0.147	0.031
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.6	0.6	5.7	0.6	0.5	0.5	0.8	0.4	0.3	N/A	1.3	0.3
Reactor Coolant System Leakage	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum leakage	0.023	0.050	0.055	0.040	0.034	0.057	0.039	0.054	0.056	0.050	0.490	0.085
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.2	0.5	0.5	0.4	0.3	0.5	0.4	0.5	0.5	0.5	4.5	0.8

Licensee Comments:

6/12: Due to a refueling outage followed by power escalation, no RCS leakage data is available for April.

9/11: Elevated (0.6 gpm) RCS leak rate in September due to apparent packing leak occurring during pressurizer PORV block valve stroke test on September 22; leak was isolated the following day.

Drill/Exercise Performance



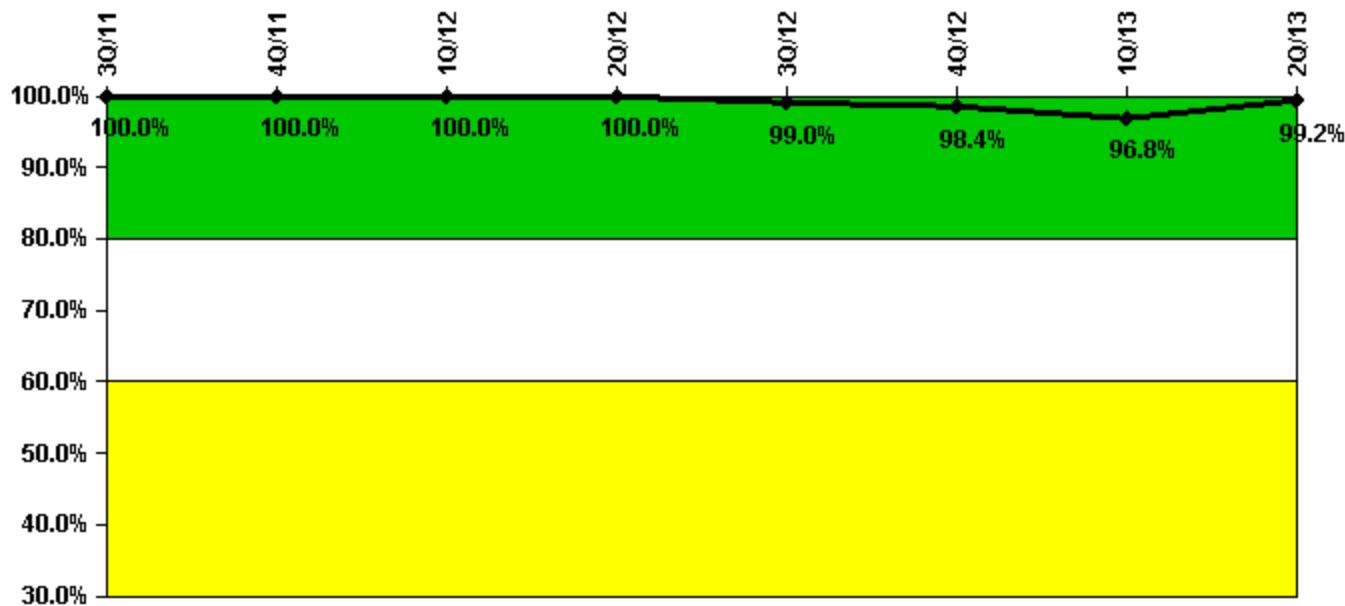
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful opportunities	41.0	0	34.0	24.0	41.0	66.0	68.0	20.0
Total opportunities	41.0	0	35.0	25.0	41.0	67.0	70.0	20.0
Indicator value	95.7%	95.4%	95.4%	95.8%	96.0%	96.4%	98.3%	98.3%

Licensee Comments: none

ERO Drill Participation



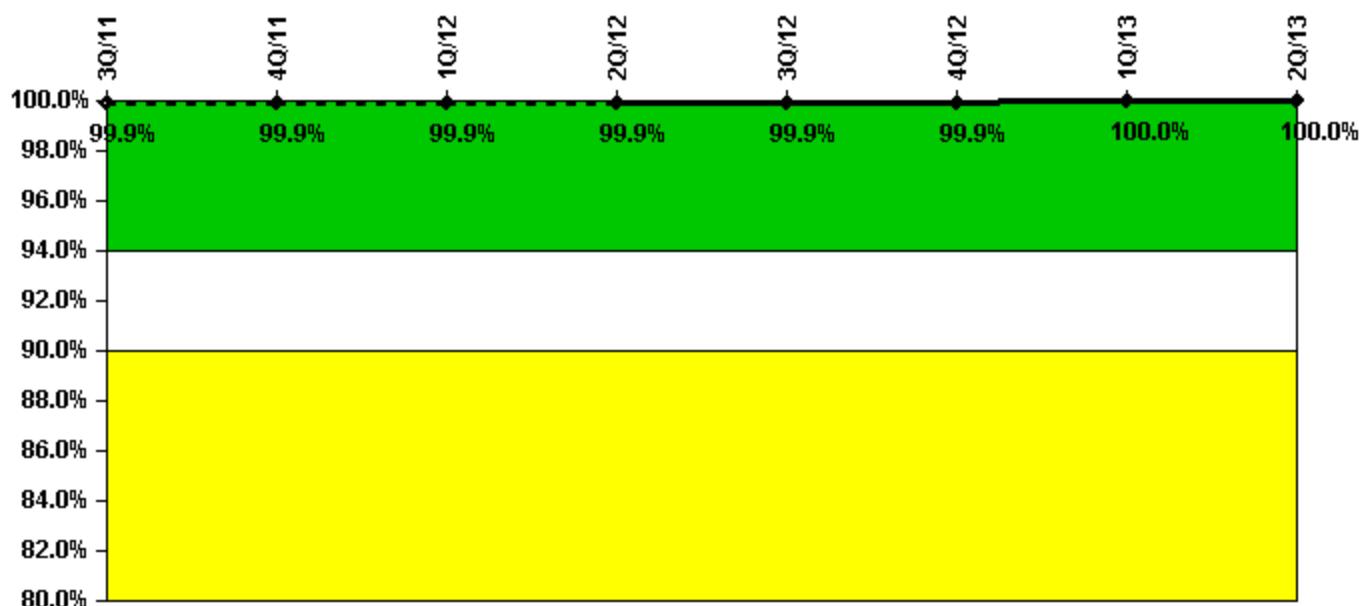
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Participating Key personnel	91.0	91.0	91.0	89.0	95.0	126.0	120.0	121.0
Total Key personnel	91.0	91.0	91.0	89.0	96.0	128.0	124.0	122.0
Indicator value	100.0%	100.0%	100.0%	100.0%	99.0%	98.4%	96.8%	99.2%

Licensee Comments: none

Alert & Notification System



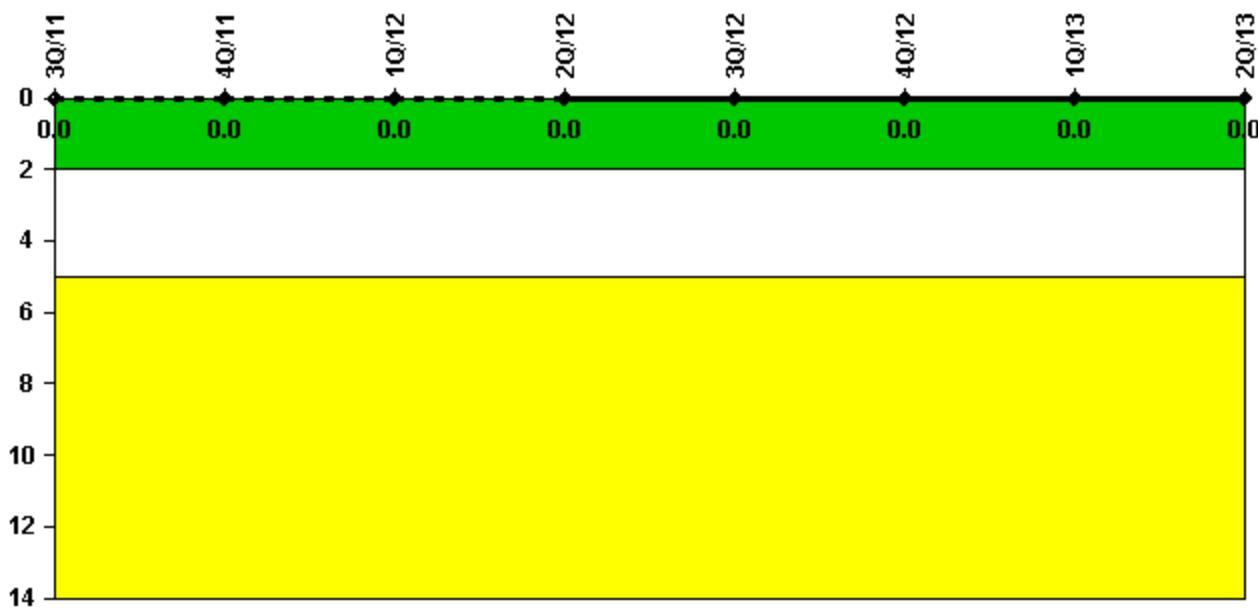
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful siren-tests	1120	1120	1118	1118	1120	1120	1120	1119
Total sirens-tests	1120	1120	1120	1119	1120	1120	1120	1119
Indicator value	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



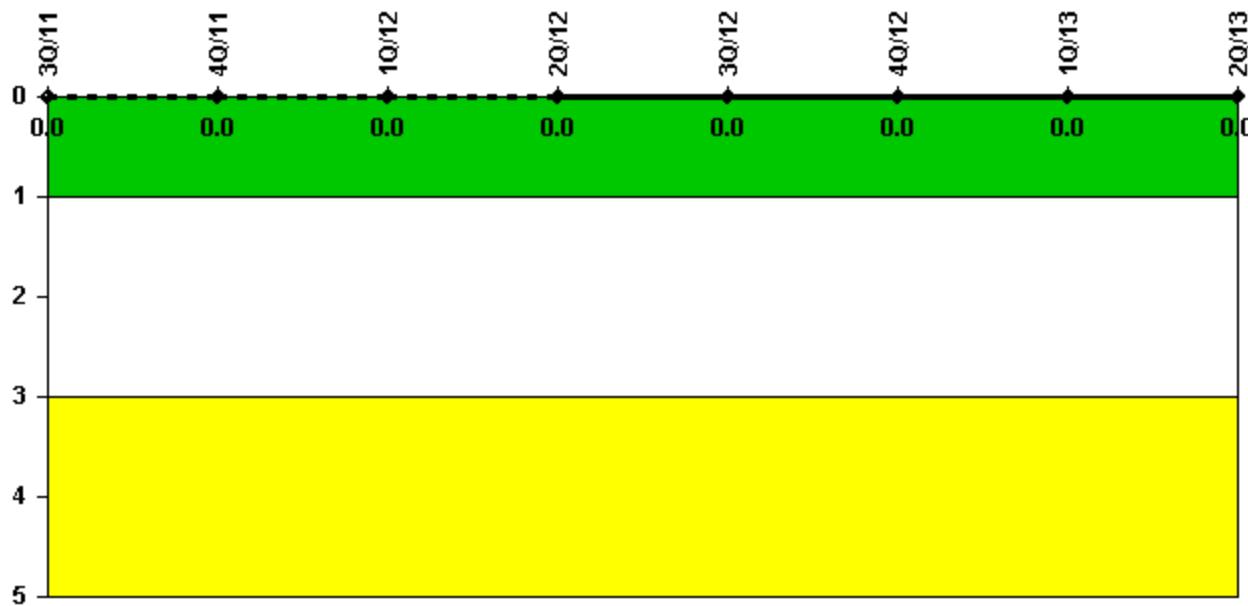
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: August 19, 2013

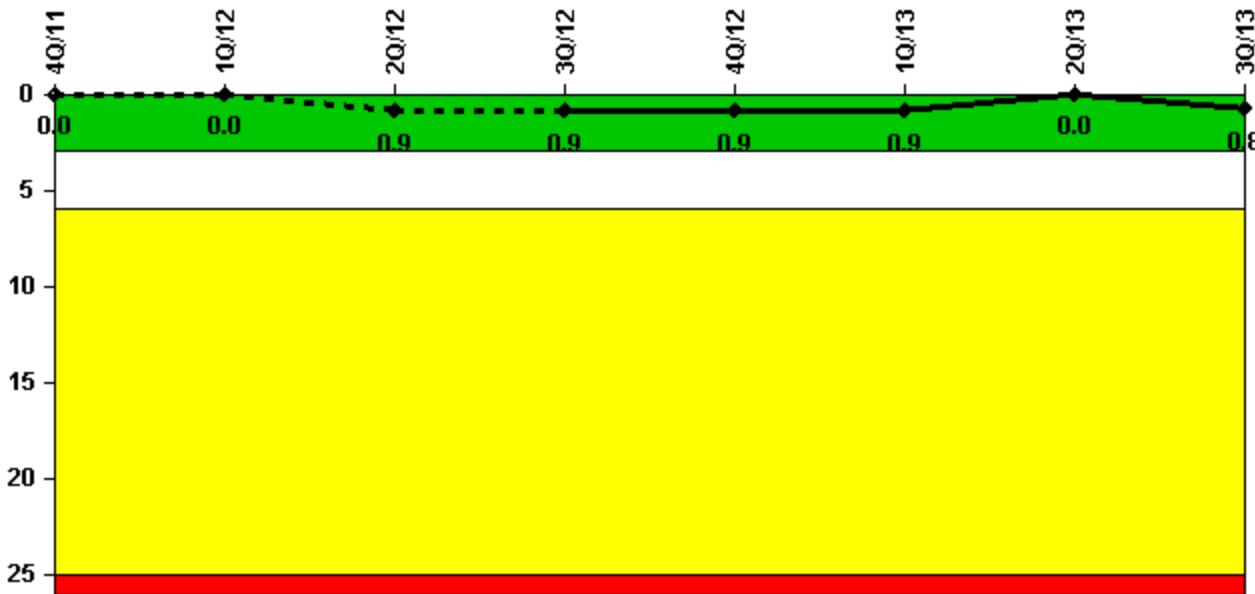
D.C. Cook 2

3Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

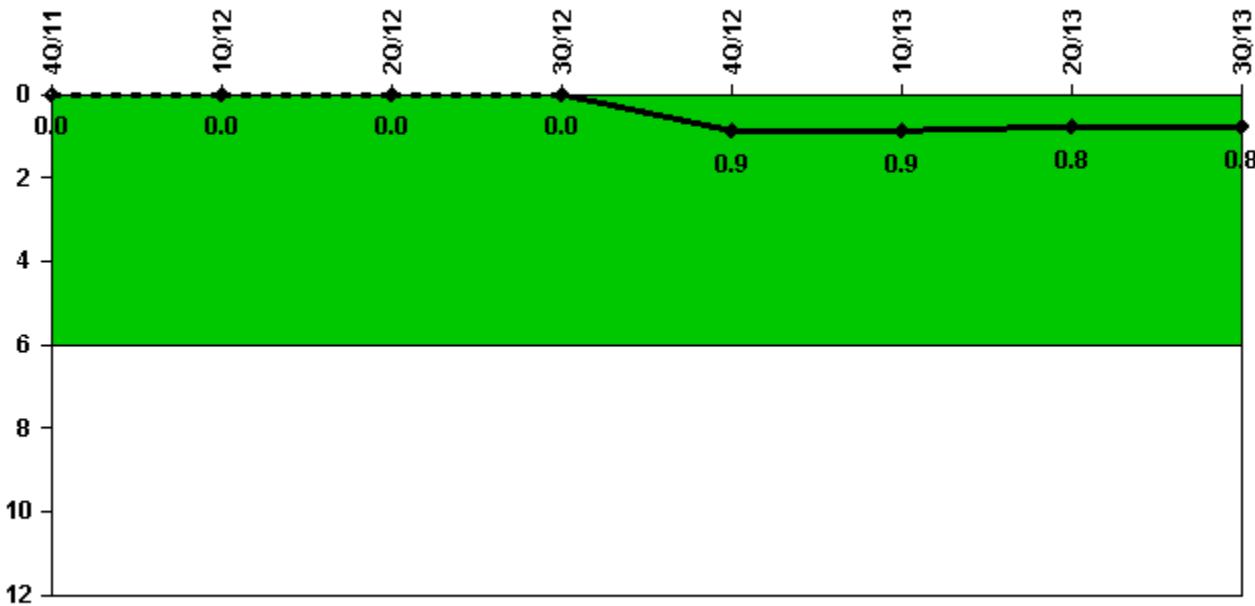
Unplanned Scrams per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned scrams	0	0	1.0	0	0	0	0	1.0
Critical hours	2209.0	1919.0	1510.6	2208.0	2209.0	2159.0	2184.0	2161.1
Indicator value	0	0	0.9	0.9	0.9	0.9	0	0.8

Licensee Comments:

3Q/13: A reactor trip due to a turbine generator trip occurred on 7/28/2013 at 1018 due to an incorrect controller setpoint on the Condensate Heater Bypass Control Valve. Subsequently, the reactor was taken critical on 7/30/2013 at 0914.

2Q/12: On April 30, the reactor automatically tripped due to a main generator trip caused by an incorrect protective relay setting.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

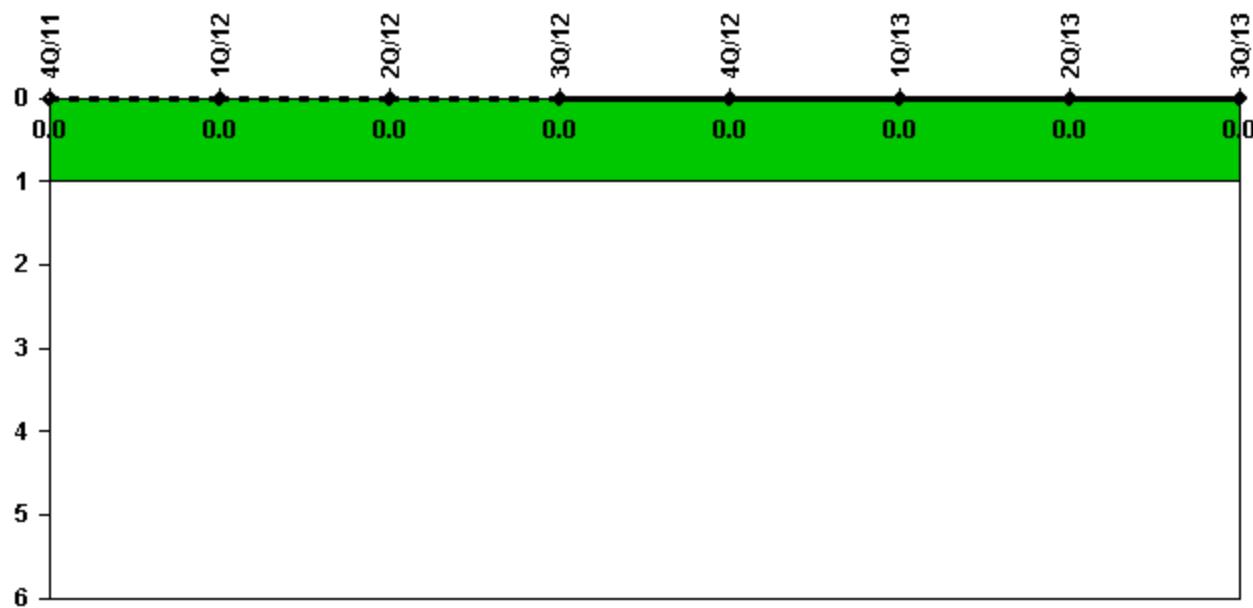
Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2209.0	1919.0	1510.6	2208.0	2209.0	2159.0	2184.0	2161.1
Indicator value	0	0	0	0	0.9	0.9	0.8	0.8

Licensee Comments:

4Q/12: Downpower to 19% due to 2-BLP-130, Steam Generator Narrow Range Level Transmitter, leak on 11/28/12.

Unplanned Scrams with Complications



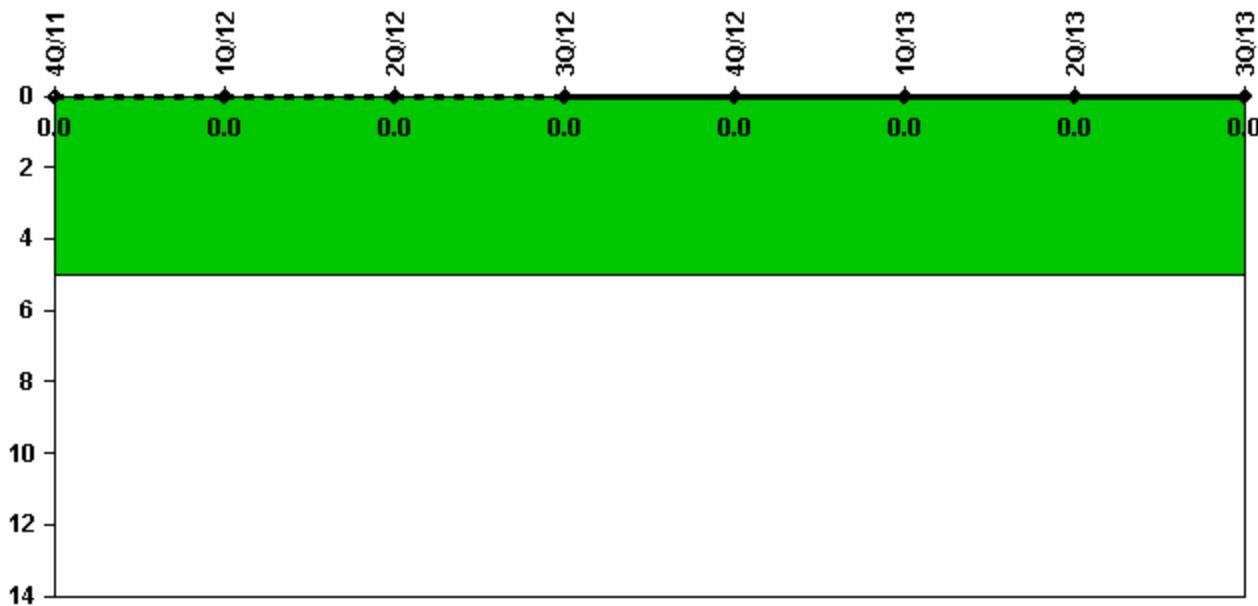
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0							

Licensee Comments: none

Safety System Functional Failures (PWR)



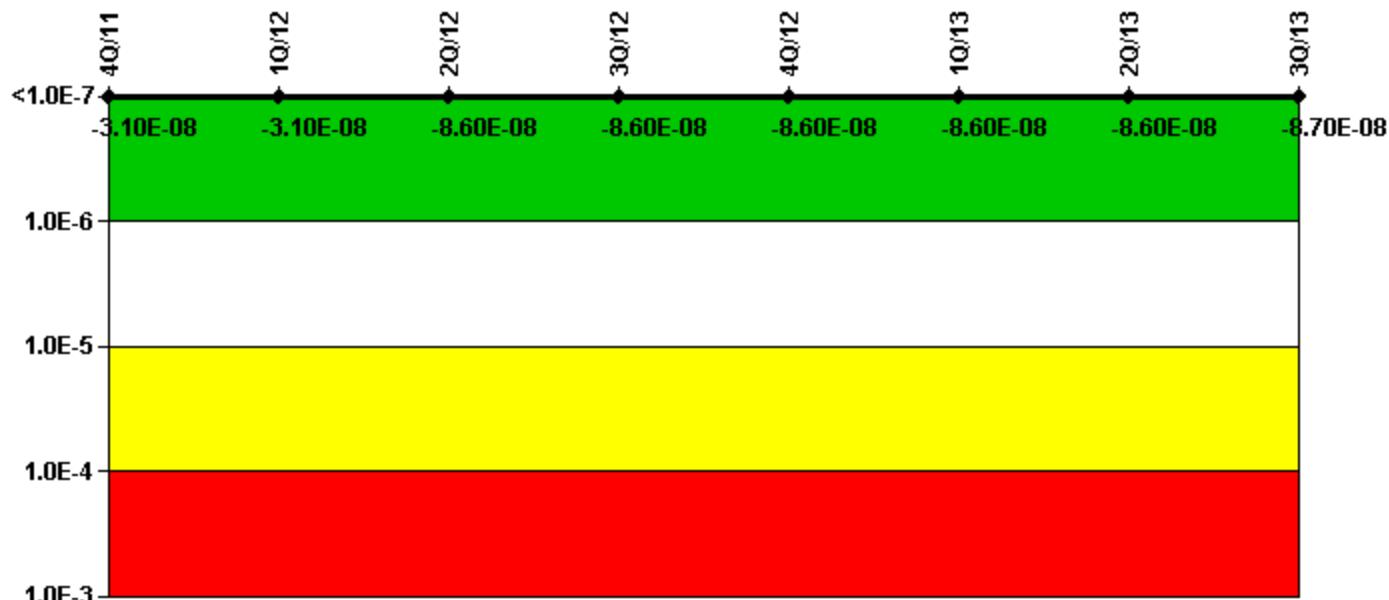
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



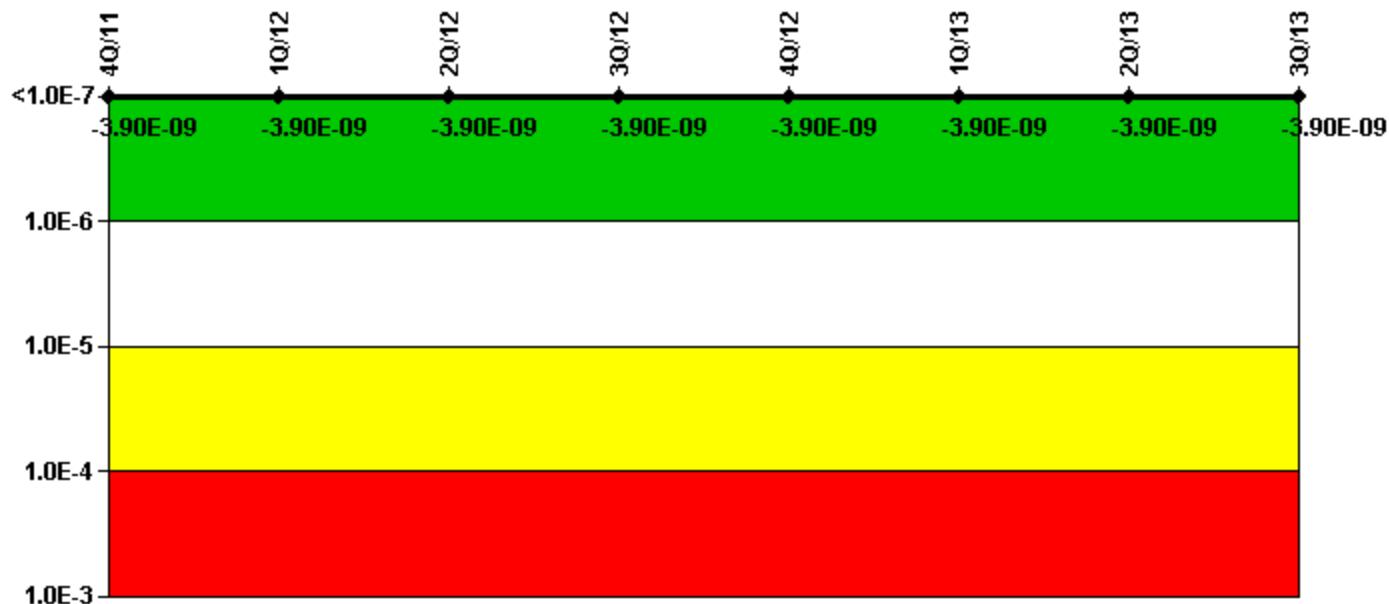
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	-2.39E-10	-2.32E-10	2.06E-10	-5.99E-11	-6.18E-11	-4.62E-11	-4.69E-11	-2.43E-10
URI (Δ CDF)	-3.11E-08	-3.11E-08	-8.64E-08	-8.64E-08	-8.64E-08	-8.64E-08	-8.64E-08	-8.64E-08
PLE	NO							
Indicator value	-3.10E-08	-3.10E-08	-8.60E-08	-8.60E-08	-8.60E-08	-8.60E-08	-8.60E-08	-8.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	-2.66E-11							
URI (Δ CDF)	-3.82E-09							
PLE	NO							
Indicator value	-3.90E-09							

Licensee Comments:

3Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < $1.0 E-06$. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

2Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < $1.0 E-06$. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

1Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these

valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

4Q/12: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

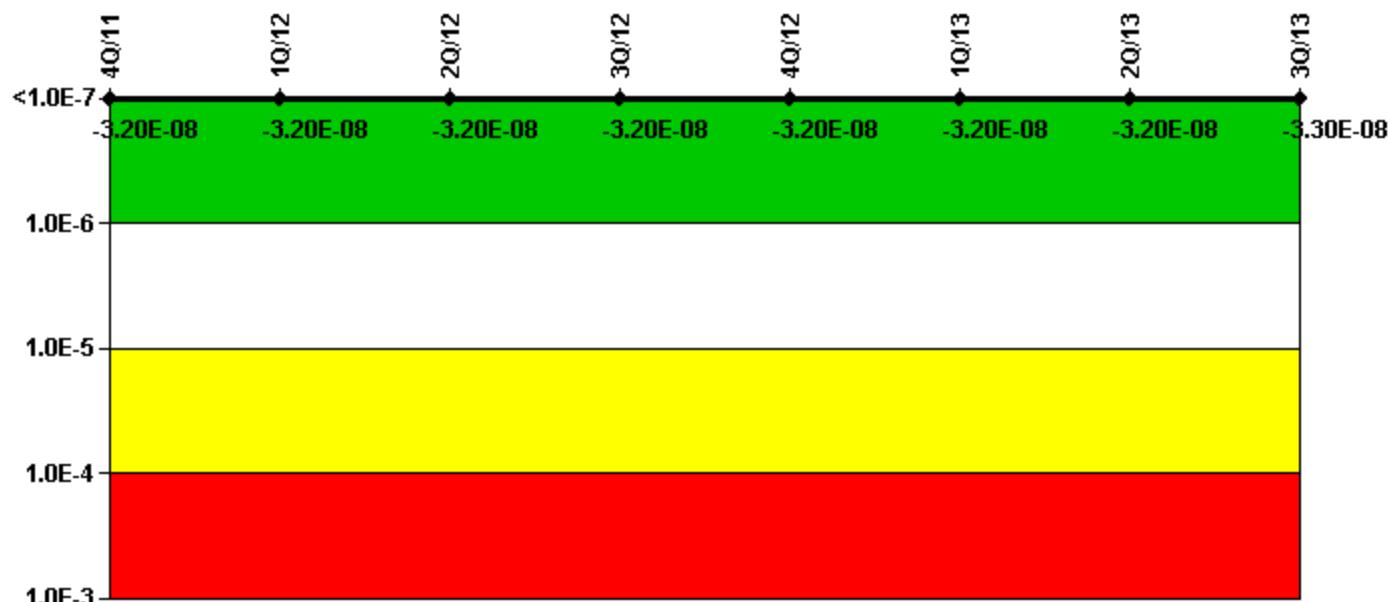
3Q/12: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

2Q/12: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

1Q/12: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

4Q/11: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

Mitigating Systems Performance Index, Heat Removal System



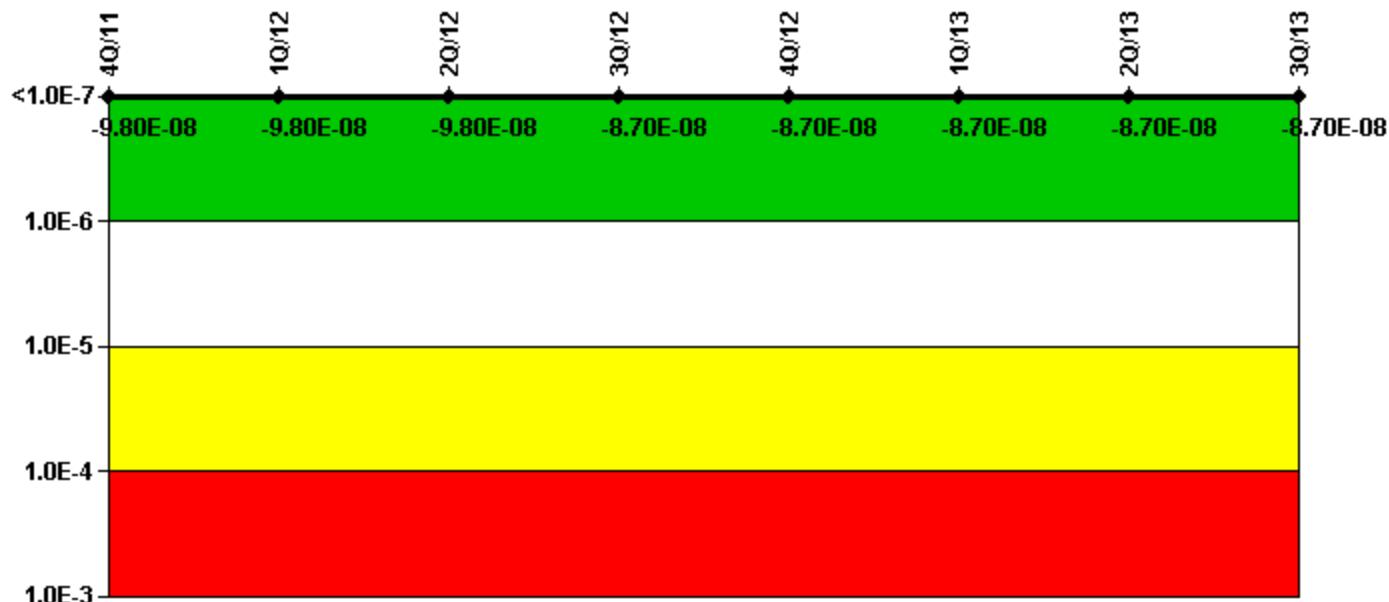
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	-2.85E-11	-2.70E-11	-2.70E-11	-7.22E-12	-7.22E-12	-9.86E-12	-9.86E-12	-1.28E-11
URI (Δ CDF)	-3.20E-08	-3.30E-08						
PLE	NO							
Indicator value	-3.20E-08	-3.30E-08						

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

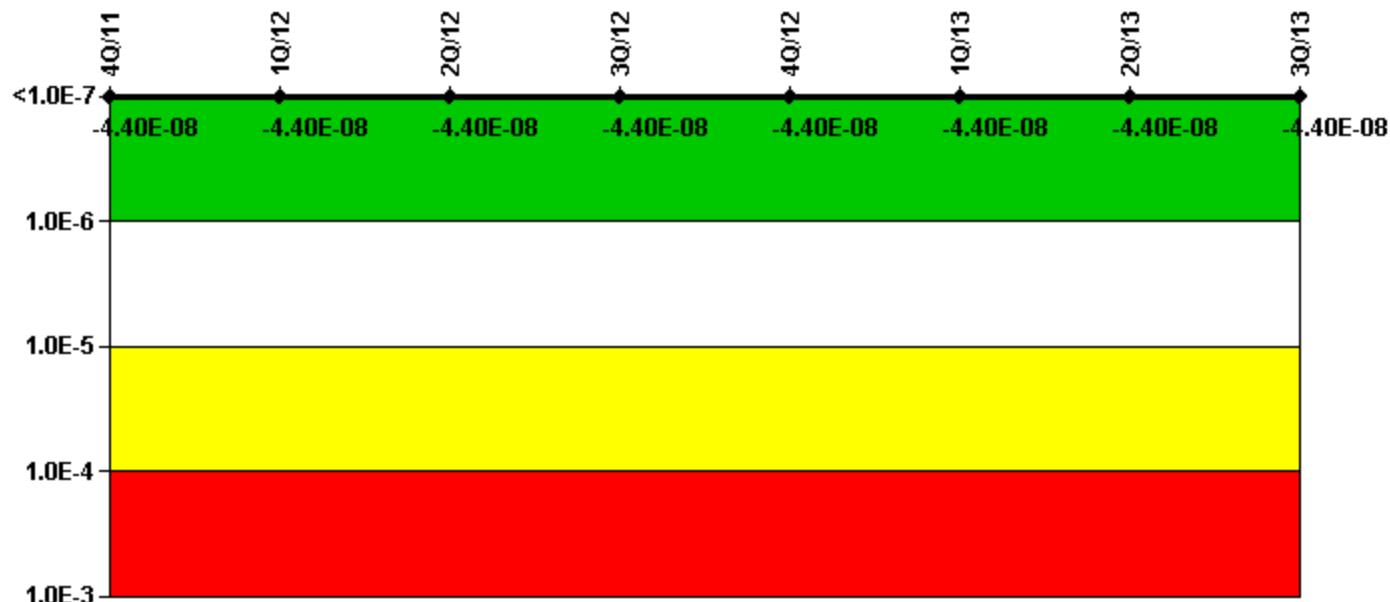
Mitigating Systems Performance Index, Residual Heat Removal System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	-3.23E-13	-3.23E-13	-3.23E-13	-1.68E-13	-2.07E-13	-2.07E-13	-3.23E-13	-3.23E-13
URI (Δ CDF)	-9.83E-08	-9.83E-08	-9.83E-08	-8.69E-08	-8.69E-08	-8.69E-08	-8.69E-08	-8.69E-08
PLE	NO							
Indicator value	-9.80E-08	-9.80E-08	-9.80E-08	-8.70E-08	-8.70E-08	-8.70E-08	-8.70E-08	-8.70E-08

Licensee Comments:

2Q/12: The MSPI Basis document was revised to exclude two Unit 2 RHR heat exchanger CCW outlet valves from monitoring based on their Birnbaum importance.

1Q/12: March 31, 2012 test results for valve 2-CMO-429 are currently being evaluated to determine if a failure occurred per MSPI criteria. If it is determined that an MSPI equipment failure occurred, a change report will be submitted.

Mitigating Systems Performance Index, Cooling Water Systems



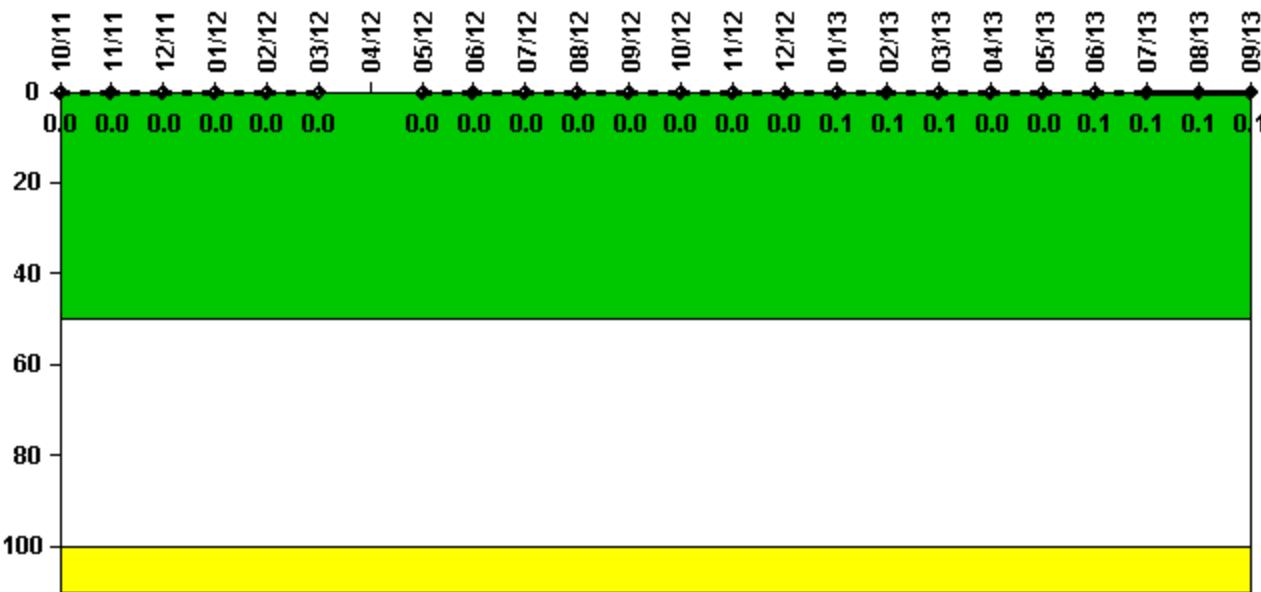
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	-1.29E-11	3.37E-11	3.33E-11	6.99E-11	6.99E-11	-2.61E-12	-2.61E-12	-2.33E-12
URI (Δ CDF)	-4.36E-08							
PLE	NO							
Indicator value	-4.40E-08							

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

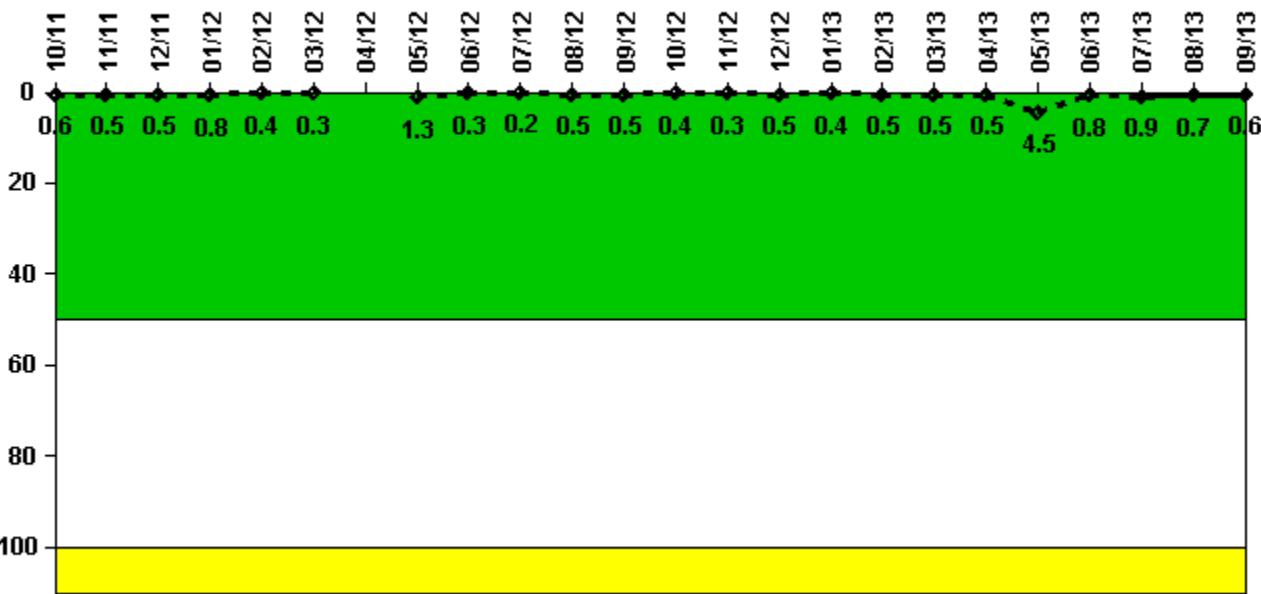
Notes

Reactor Coolant System Activity	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum activity	0.000188	0.000190	0.000203	0.000200	0.000211	0.000152	N/A	0.000097	0.000099	0.000104	0.000205	0.000120
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	N/A	0	0	0	0	0
Reactor Coolant System Activity	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum activity	0.000123	0.000160	0.000130	0.000213	0.000190	0.000176	0.000162	0.000168	0.000175	0.000183	0.000191	0.000382
Technical specification limit	1.0	1.0	1.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0	0.1	0.1	0.1	0	0	0.1	0.1	0.1	0.1

Licensee Comments:

6/12: Due to a refueling outage followed by power escalation, no RCS activity data is available for April.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

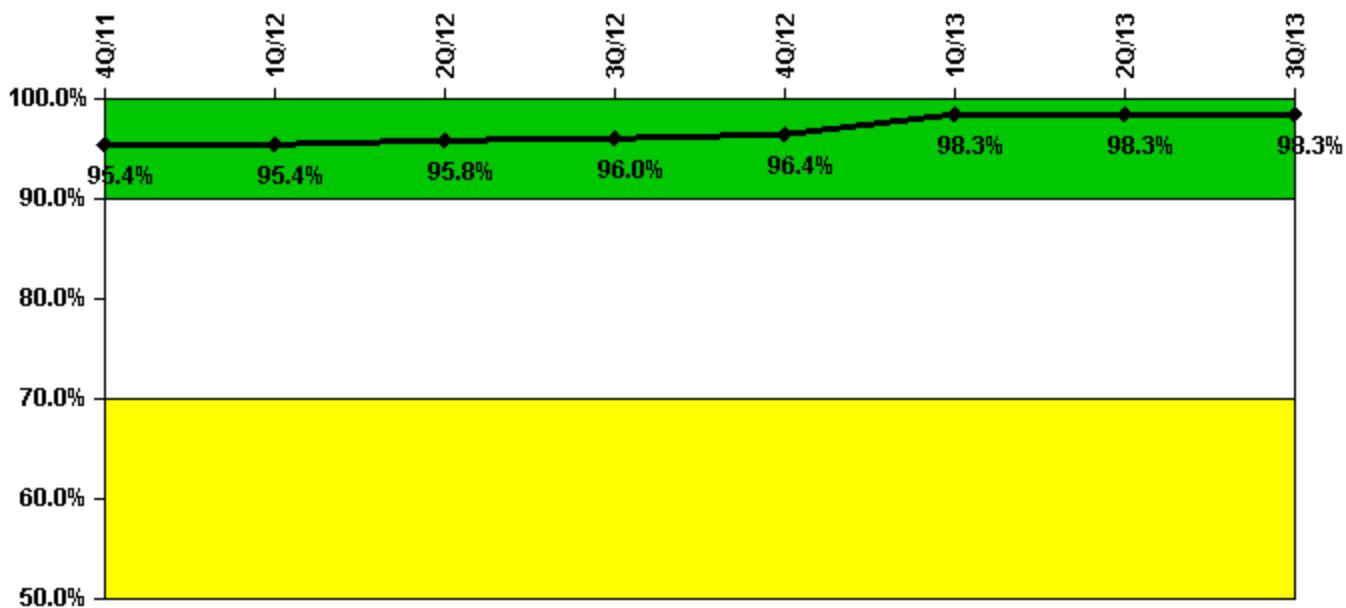
Notes

Reactor Coolant System Leakage	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum leakage	0.066	0.056	0.056	0.085	0.045	0.036	N/A	0.147	0.031	0.023	0.050	0.055
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.6	0.5	0.5	0.8	0.4	0.3	N/A	1.3	0.3	0.2	0.5	0.5
Reactor Coolant System Leakage	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum leakage	0.040	0.034	0.057	0.039	0.054	0.056	0.050	0.490	0.085	0.096	0.073	0.067
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.4	0.3	0.5	0.4	0.5	0.5	0.5	4.5	0.8	0.9	0.7	0.6

Licensee Comments:

6/12: Due to a refueling outage followed by power escalation, no RCS leakage data is available for April.

Drill/Exercise Performance



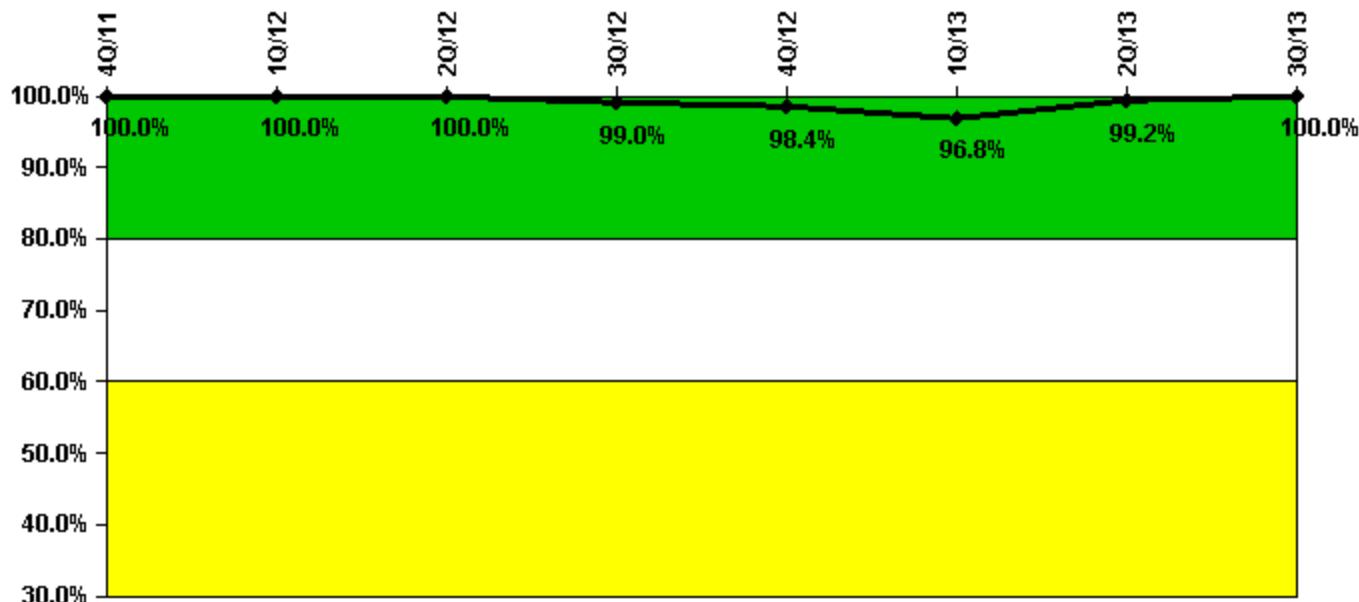
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful opportunities	0	34.0	24.0	41.0	66.0	68.0	20.0	44.0
Total opportunities	0	35.0	25.0	41.0	67.0	70.0	20.0	44.0
Indicator value	95.4%	95.4%	95.8%	96.0%	96.4%	98.3%	98.3%	98.3%

Licensee Comments: none

ERO Drill Participation



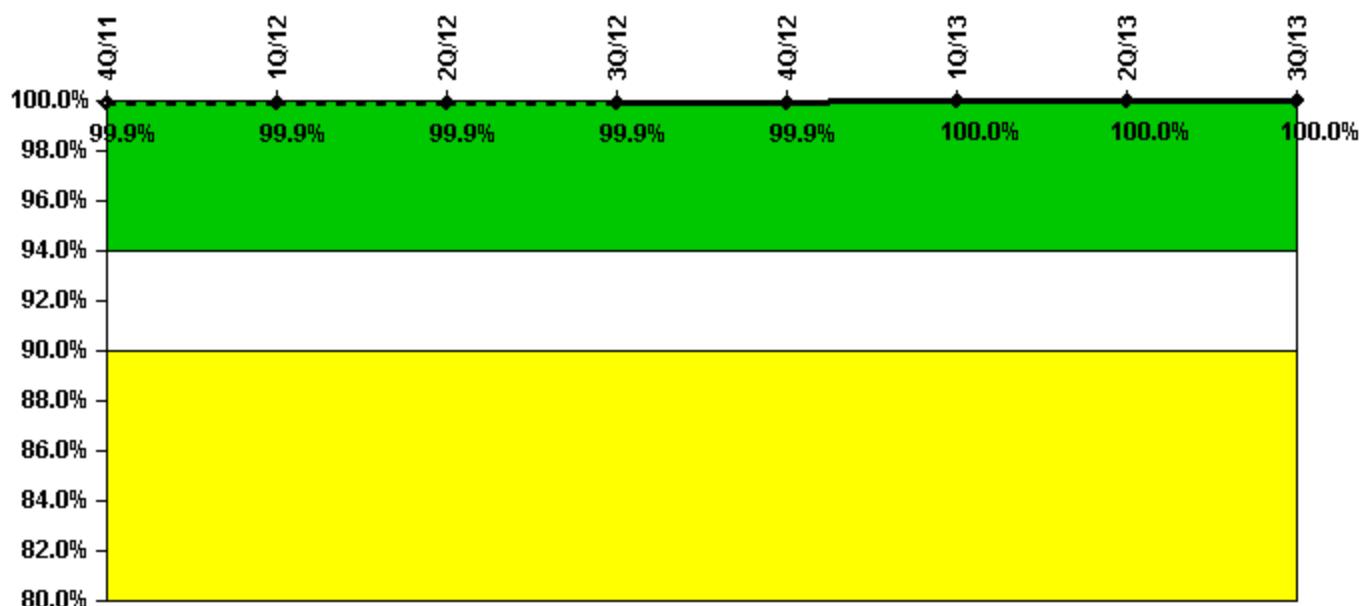
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Participating Key personnel	91.0	91.0	89.0	95.0	126.0	120.0	121.0	118.0
Total Key personnel	91.0	91.0	89.0	96.0	128.0	124.0	122.0	118.0
Indicator value	100.0%	100.0%	100.0%	99.0%	98.4%	96.8%	99.2%	100.0%

Licensee Comments: none

Alert & Notification System



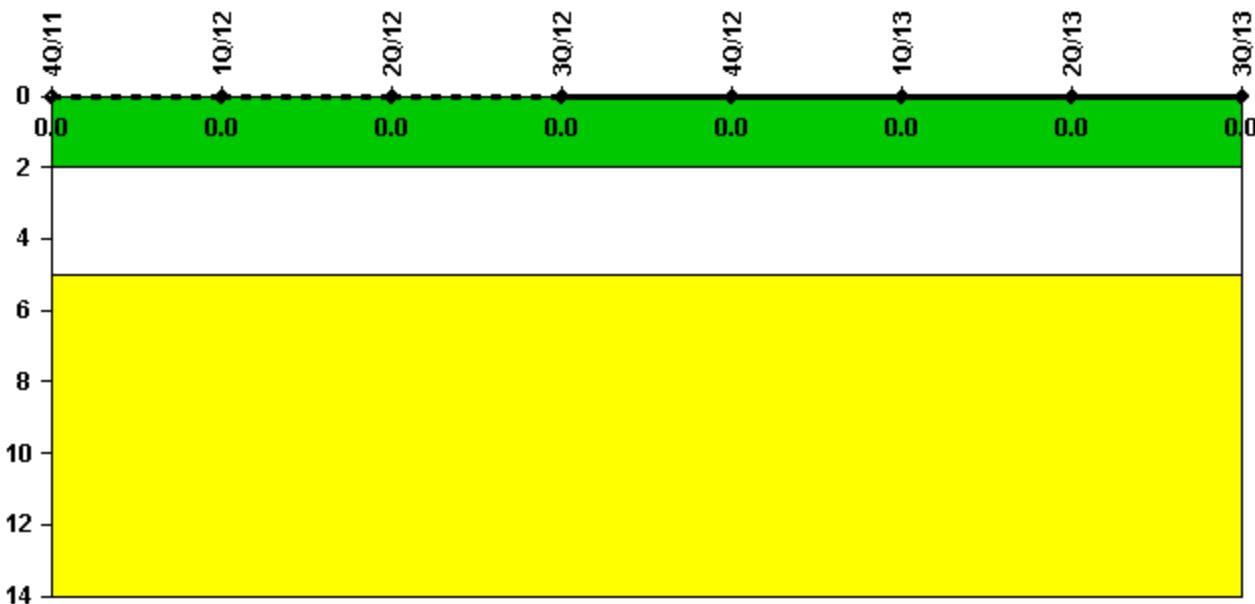
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful siren-tests	1120	1118	1118	1120	1120	1120	1119	1120
Total sirens-tests	1120	1120	1119	1120	1120	1120	1119	1120
Indicator value	99.9%	99.9%	99.9%	99.9%	99.9%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



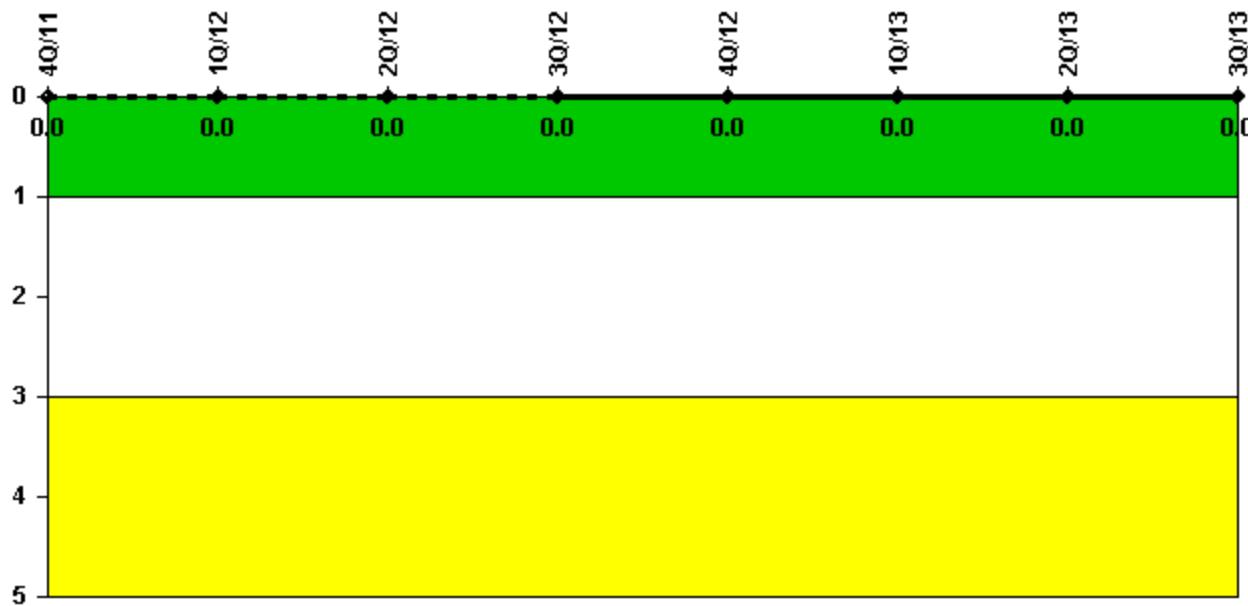
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: October 22, 2013

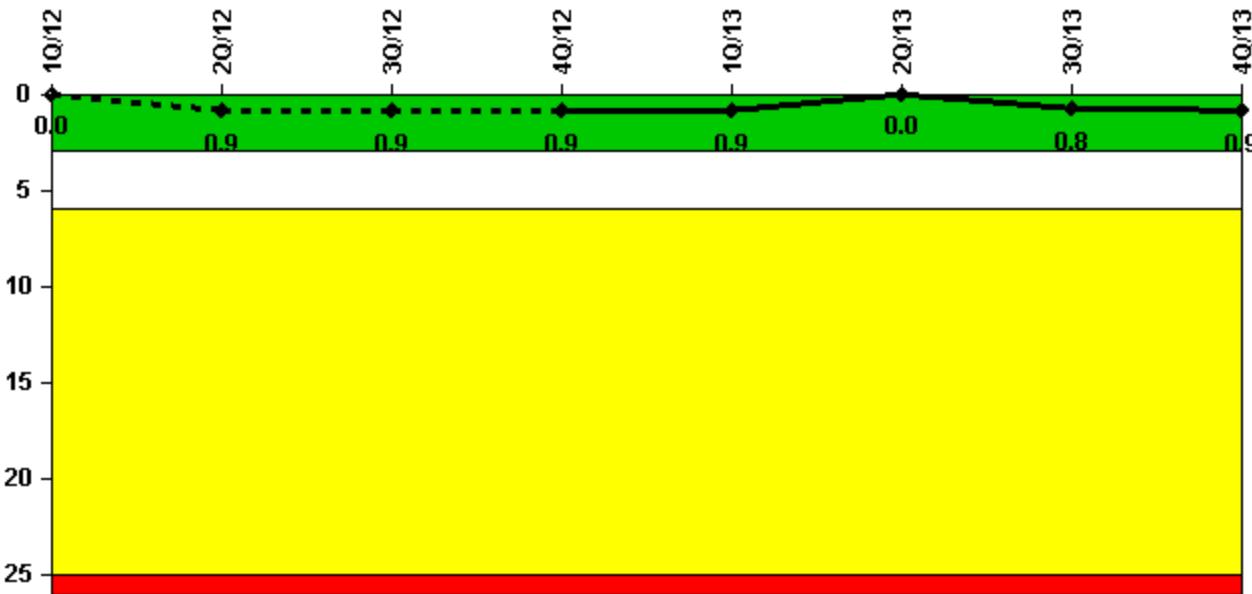
D.C. Cook 2

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

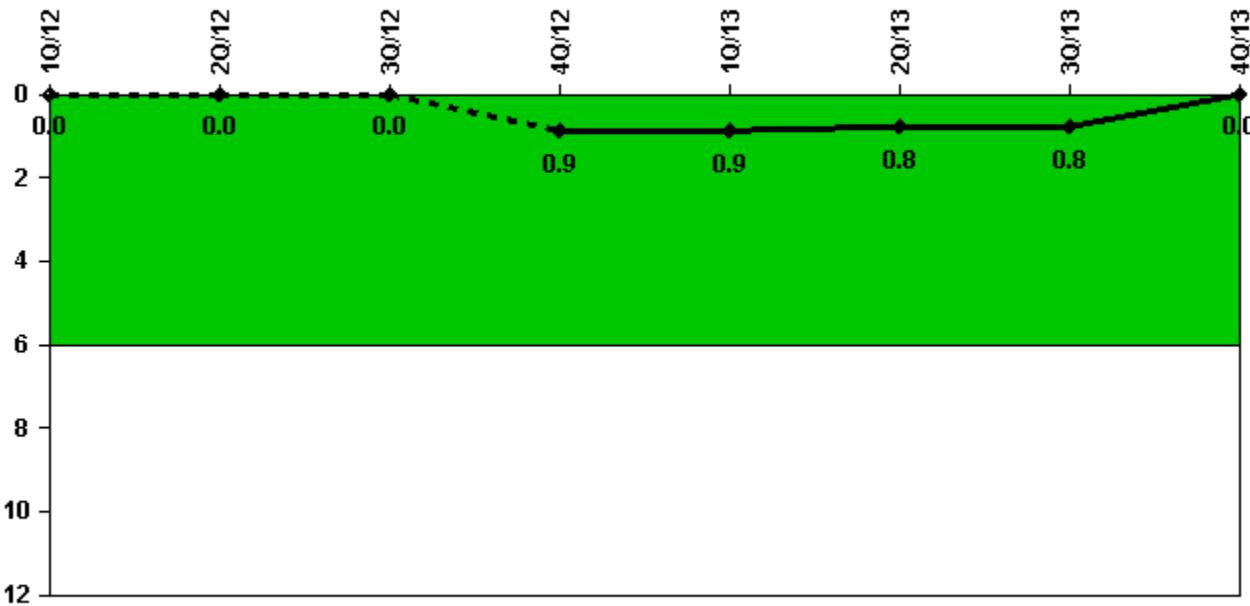
Unplanned Scrams per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned scrams	0	1.0	0	0	0	0	1.0	0
Critical hours	1919.0	1510.6	2208.0	2209.0	2159.0	2184.0	2161.1	1238.6
Indicator value	0	0.9	0.9	0.9	0.9	0	0.8	0.9

Licensee Comments:

3Q/13: A reactor trip due to a turbine generator trip occurred on 7/28/2013 at 1018 due to an incorrect controller setpoint on the Condensate Heater Bypass Control Valve. Subsequently, the reactor was taken critical on 7/30/2013 at 0914.

2Q/12: On April 30, the reactor automatically tripped due to a main generator trip caused by an incorrect protective relay setting.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

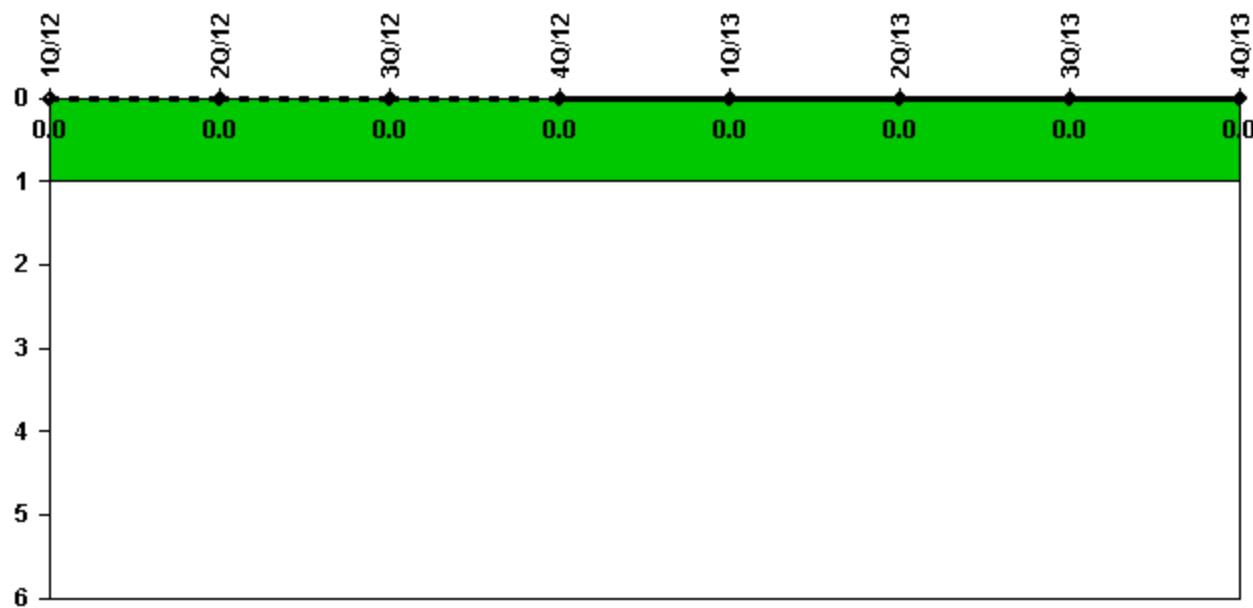
Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	1919.0	1510.6	2208.0	2209.0	2159.0	2184.0	2161.1	1238.6
Indicator value	0	0	0	0.9	0.9	0.8	0.8	0

Licensee Comments:

4Q/12: Downpower to 19% due to 2-BLP-130, Steam Generator Narrow Range Level Transmitter, leak on 11/28/12.

Unplanned Scrams with Complications



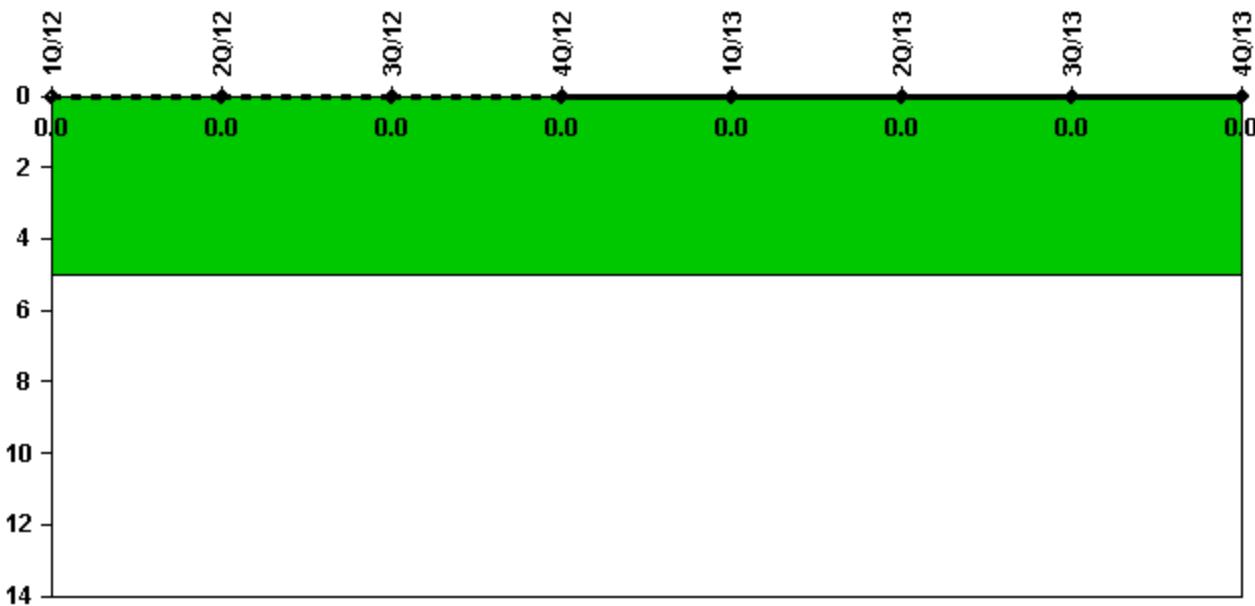
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0							

Licensee Comments: none

Safety System Functional Failures (PWR)



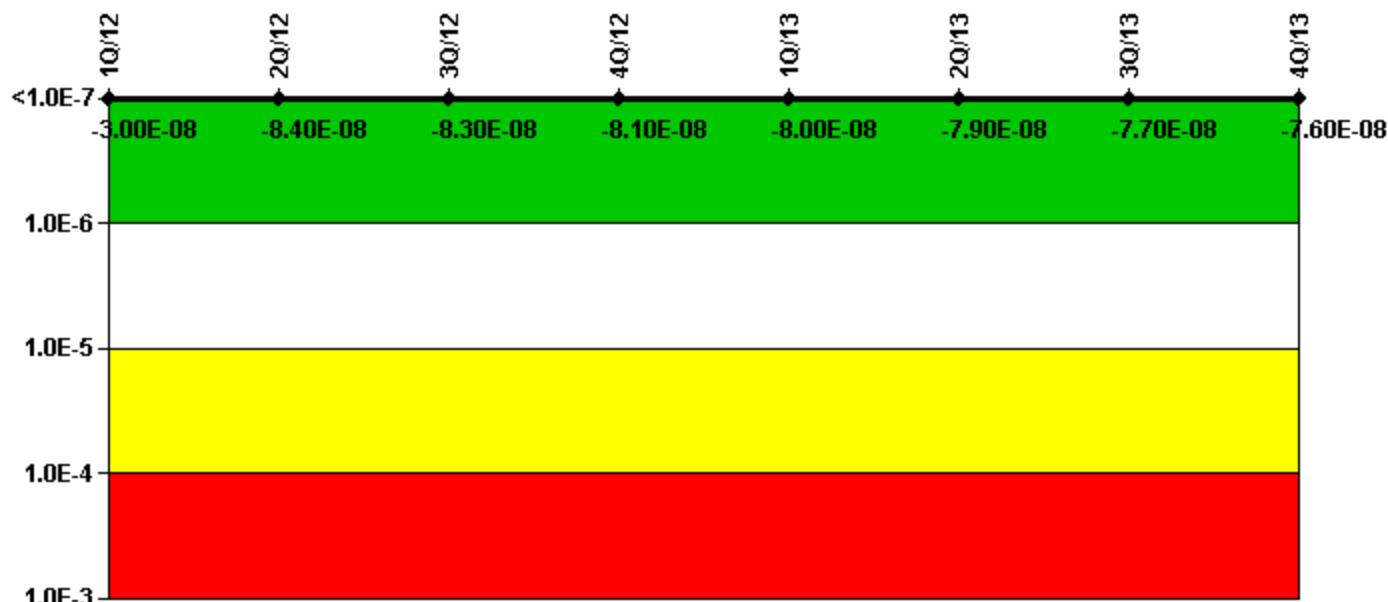
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-2.32E-10	2.06E-10	-5.99E-11	-6.18E-11	-4.62E-11	-4.69E-11	-2.43E-10	-2.54E-10
URI (Δ CDF)	-2.99E-08	-8.40E-08	-8.27E-08	-8.14E-08	-8.00E-08	-7.86E-08	-7.71E-08	-7.56E-08
PLE	NO							
Indicator value	-3.00E-08	-8.40E-08	-8.30E-08	-8.10E-08	-8.00E-08	-7.90E-08	-7.70E-08	-7.60E-08

Licensee Comments:

4Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

3Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

2Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

1Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This

change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

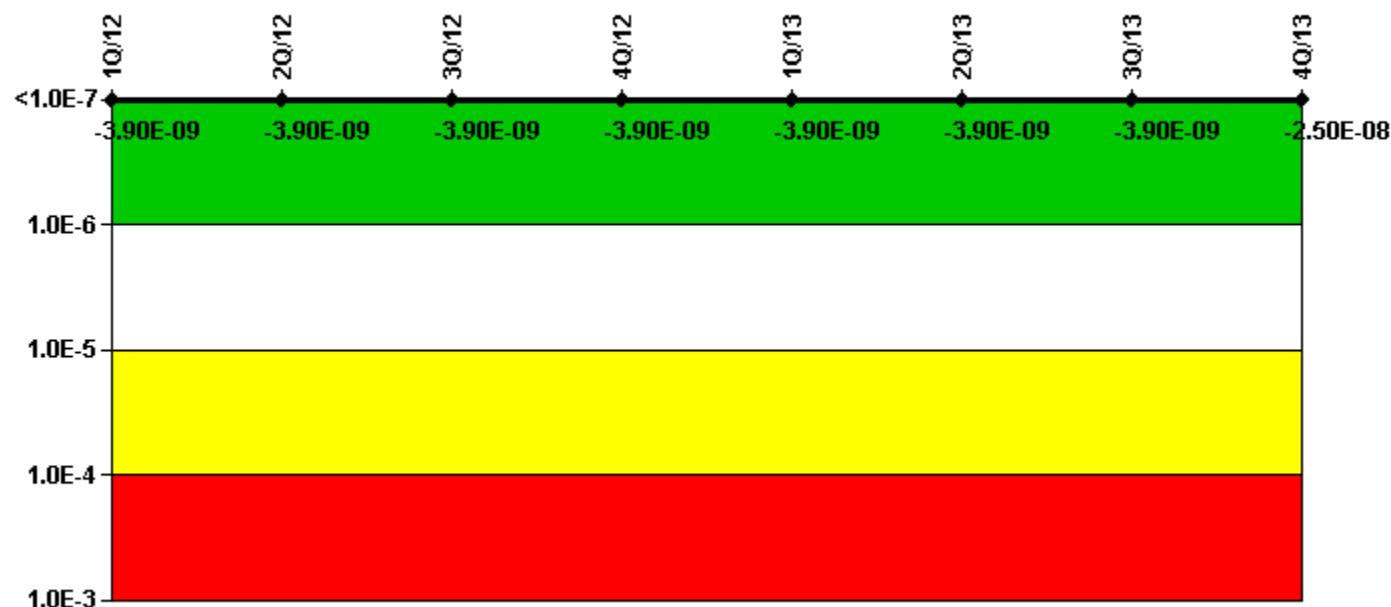
4Q/12: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

3Q/12: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

2Q/12: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

1Q/12: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-2.66E-11							

URI (Δ CDF)	-3.82E-09	-2.54E-08						
PLE	NO							
Indicator value	-3.90E-09	-2.50E-08						

Licensee Comments:

3Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

2Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

1Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

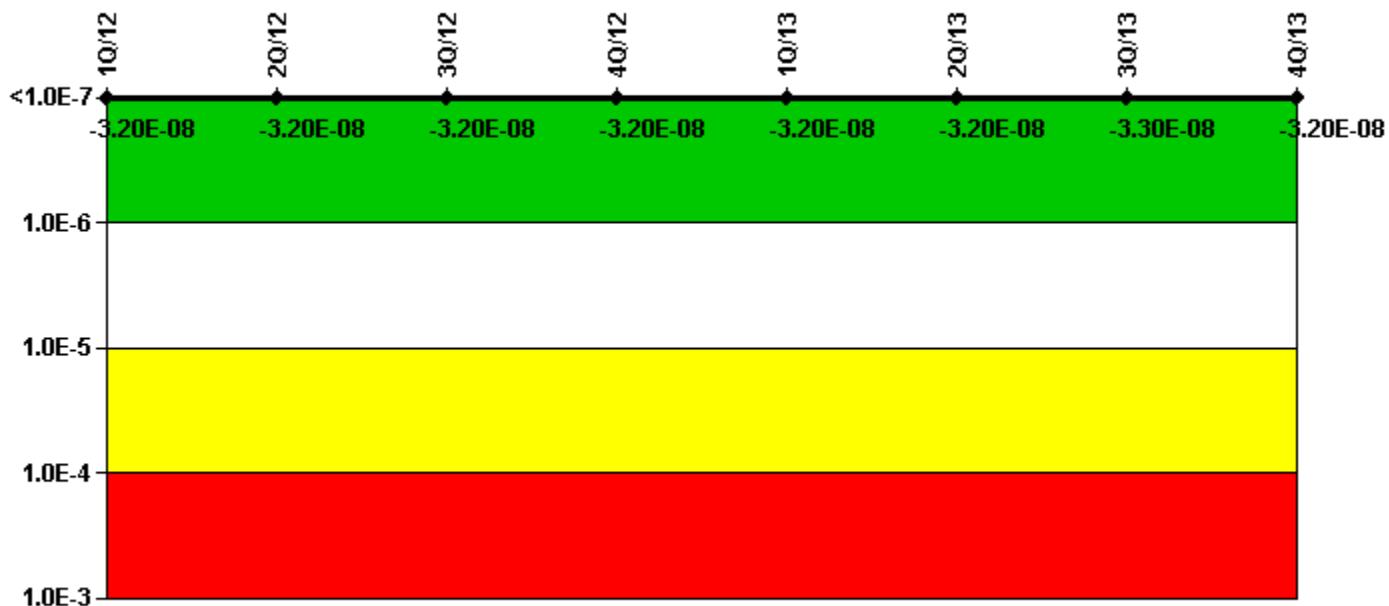
4Q/12: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

3Q/12: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

2Q/12: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

1Q/12: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

Mitigating Systems Performance Index, Heat Removal System



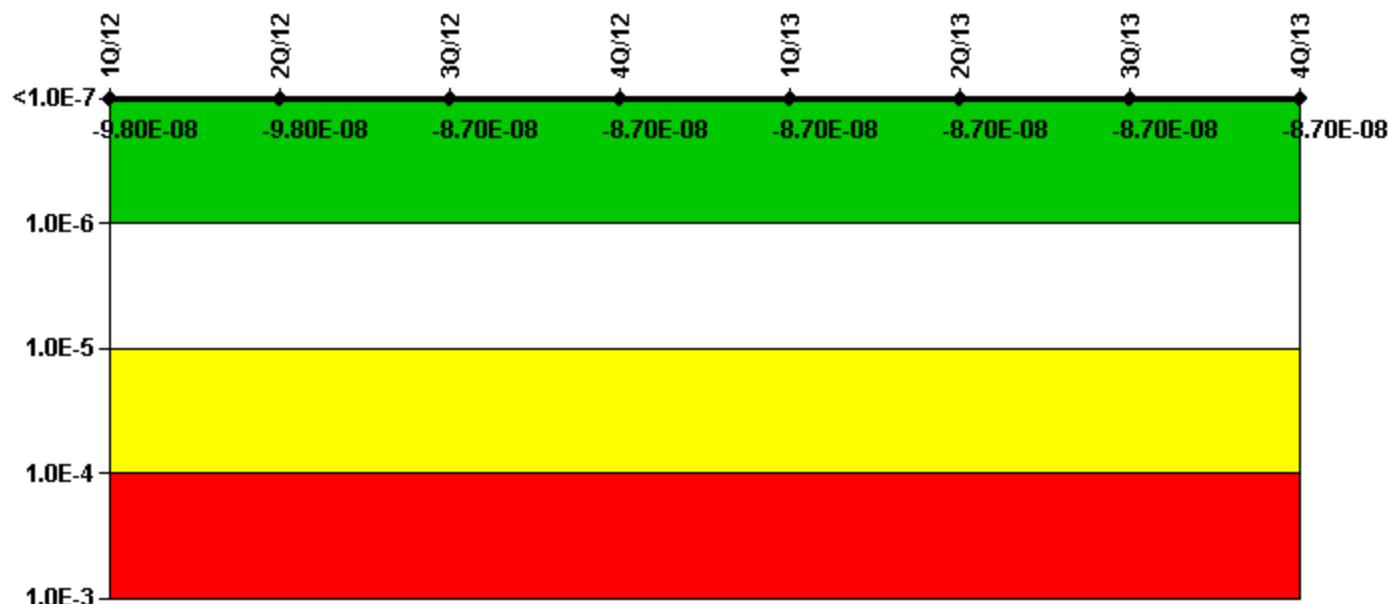
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-2.70E-11	-2.70E-11	-7.22E-12	-7.22E-12	-9.86E-12	-9.86E-12	-1.28E-11	-1.34E-11
URI (Δ CDF)	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.30E-08	-3.23E-08
PLE	NO							
Indicator value	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.30E-08	-3.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

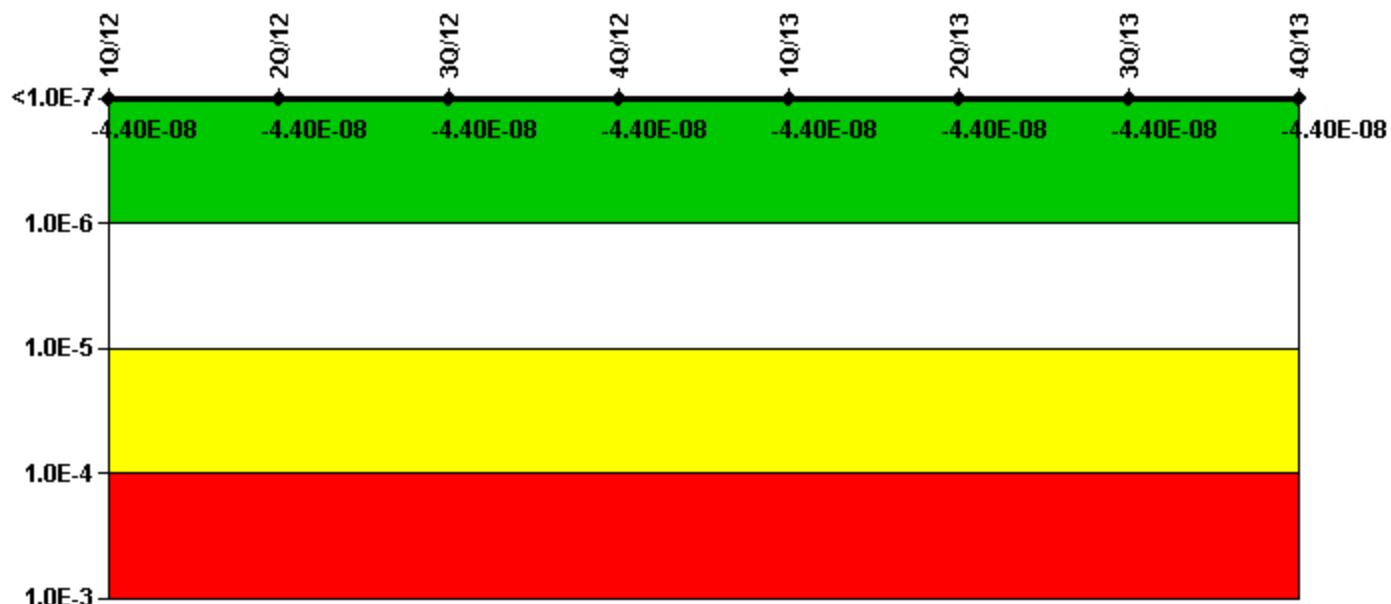
Mitigating Systems Performance Index, Residual Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-3.23E-13	-3.23E-13	-1.68E-13	-2.07E-13	-2.07E-13	-3.23E-13	-3.23E-13	-3.23E-13
URI (Δ CDF)	-9.83E-08	-9.83E-08	-8.69E-08	-8.69E-08	-8.69E-08	-8.69E-08	-8.69E-08	-8.69E-08
PLE	NO							
Indicator value	-9.80E-08	-9.80E-08	-8.70E-08	-8.70E-08	-8.70E-08	-8.70E-08	-8.70E-08	-8.70E-08

Licensee Comments:

2Q/12: The MSPI Basis document was revised to exclude two Unit 2 RHR heat exchanger CCW outlet valves from monitoring based on their Birnbaum importance.

1Q/12: March 31, 2012 test results for valve 2-CMO-429 are currently being evaluated to determine if a failure occurred per MSPI criteria. If it is determined that an MSPI equipment failure occurred, a change report will be submitted.

Mitigating Systems Performance Index, Cooling Water Systems



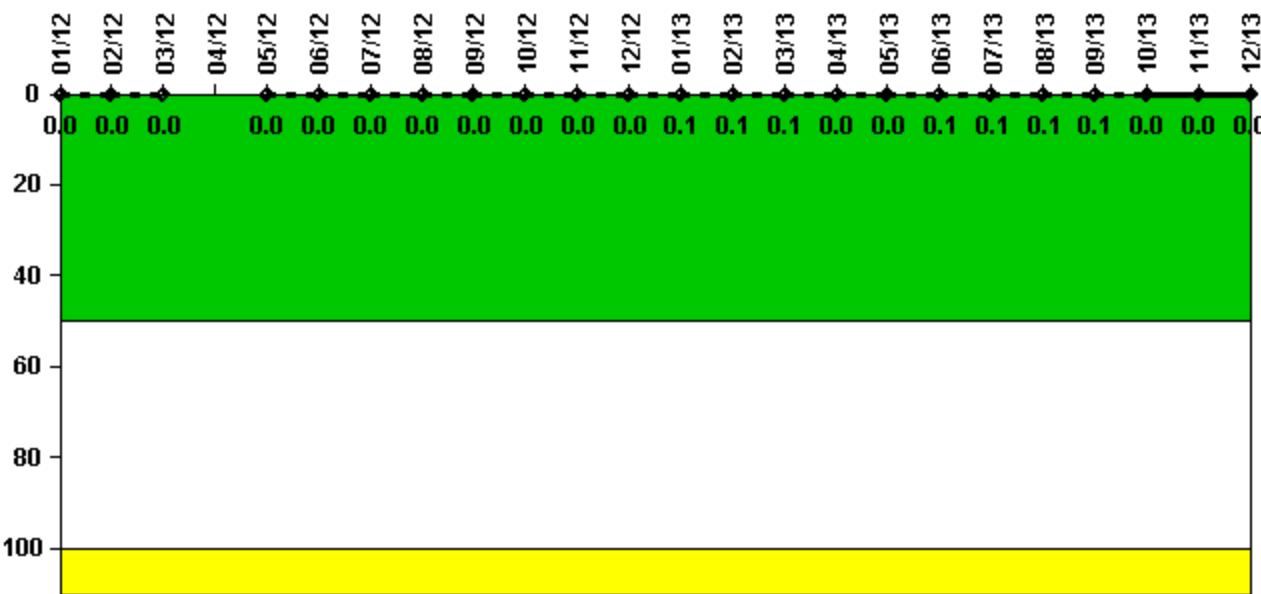
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	3.37E-11	3.33E-11	6.99E-11	6.99E-11	-2.61E-12	-2.61E-12	-2.33E-12	1.17E-12
URI (Δ CDF)	-4.36E-08							
PLE	NO							
Indicator value	-4.40E-08							

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

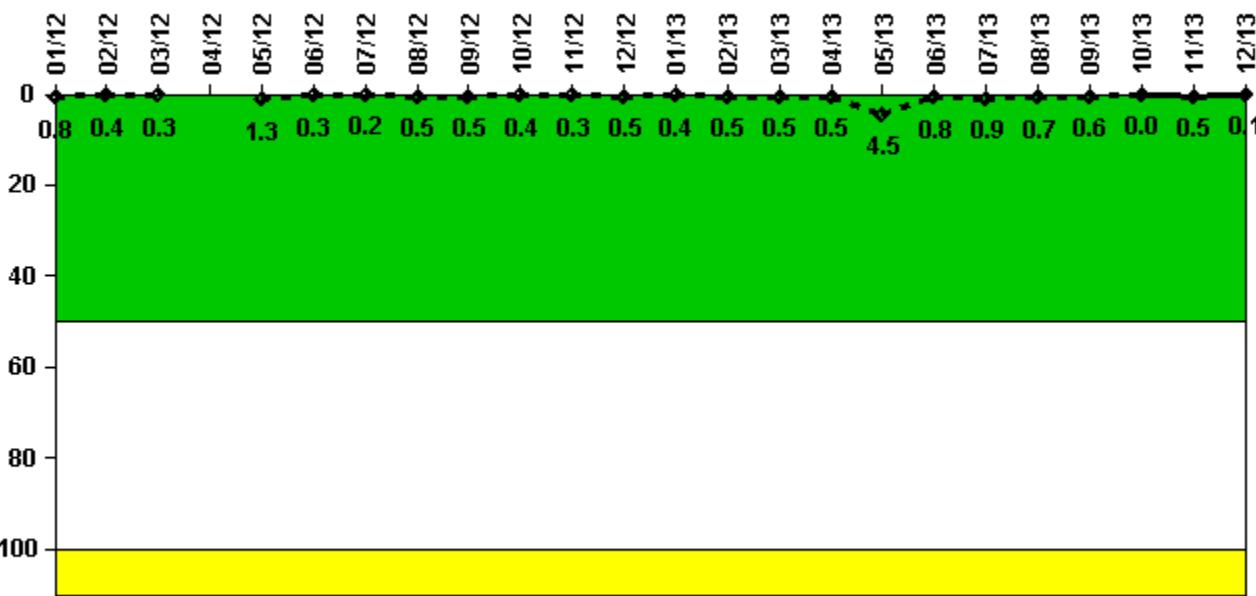
Notes

Reactor Coolant System Activity	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum activity	0.000200	0.000211	0.000152	N/A	0.000097	0.000099	0.000104	0.000205	0.000120	0.000123	0.000160	0.000130
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	N/A	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum activity	0.000213	0.000190	0.000176	0.000162	0.000168	0.000175	0.000183	0.000191	0.000382	0.000164	0.000068	0.000090
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0.1	0.1	0.1	0	0	0.1	0.1	0.1	0.1	0	0	0

Licensee Comments:

6/12: Due to a refueling outage followed by power escalation, no RCS activity data is available for April.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

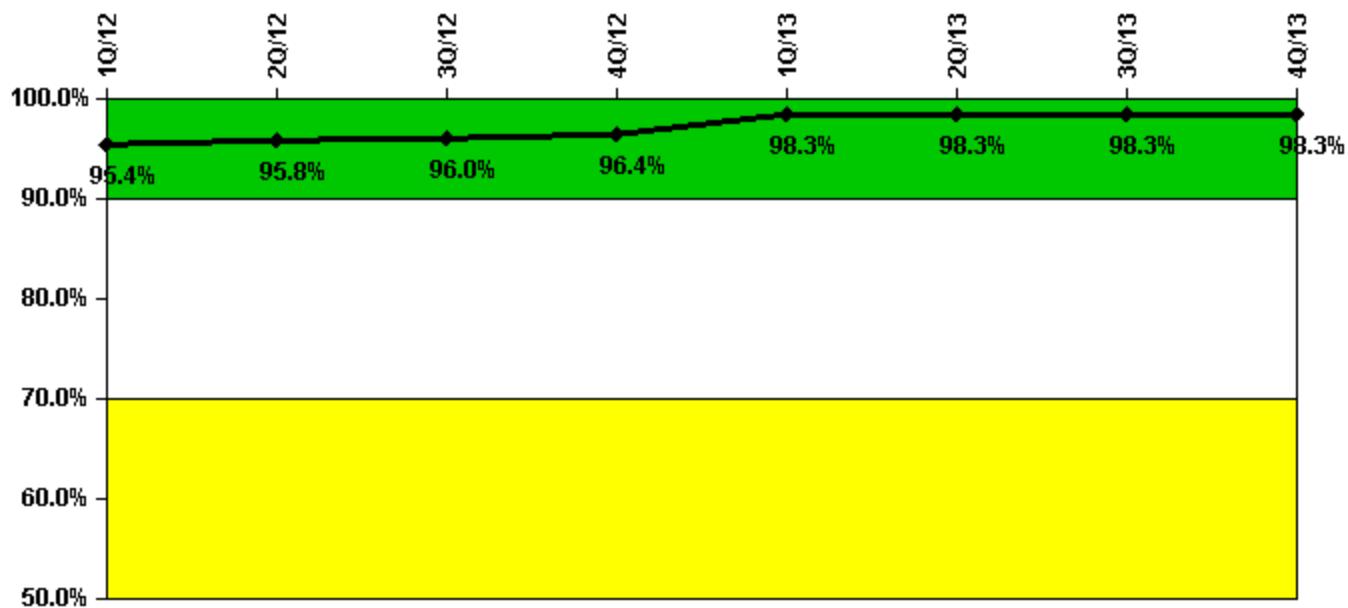
Notes

Reactor Coolant System Leakage	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum leakage	0.085	0.045	0.036	N/A	0.147	0.031	0.023	0.050	0.055	0.040	0.034	0.057
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.8	0.4	0.3	N/A	1.3	0.3	0.2	0.5	0.5	0.4	0.3	0.5
Reactor Coolant System Leakage	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum leakage	0.039	0.054	0.056	0.050	0.490	0.085	0.096	0.073	0.067	0	0.052	0.010
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.4	0.5	0.5	0.5	4.5	0.8	0.9	0.7	0.6	0	0.5	0.1

Licensee Comments:

6/12: Due to a refueling outage followed by power escalation, no RCS leakage data is available for April.

Drill/Exercise Performance



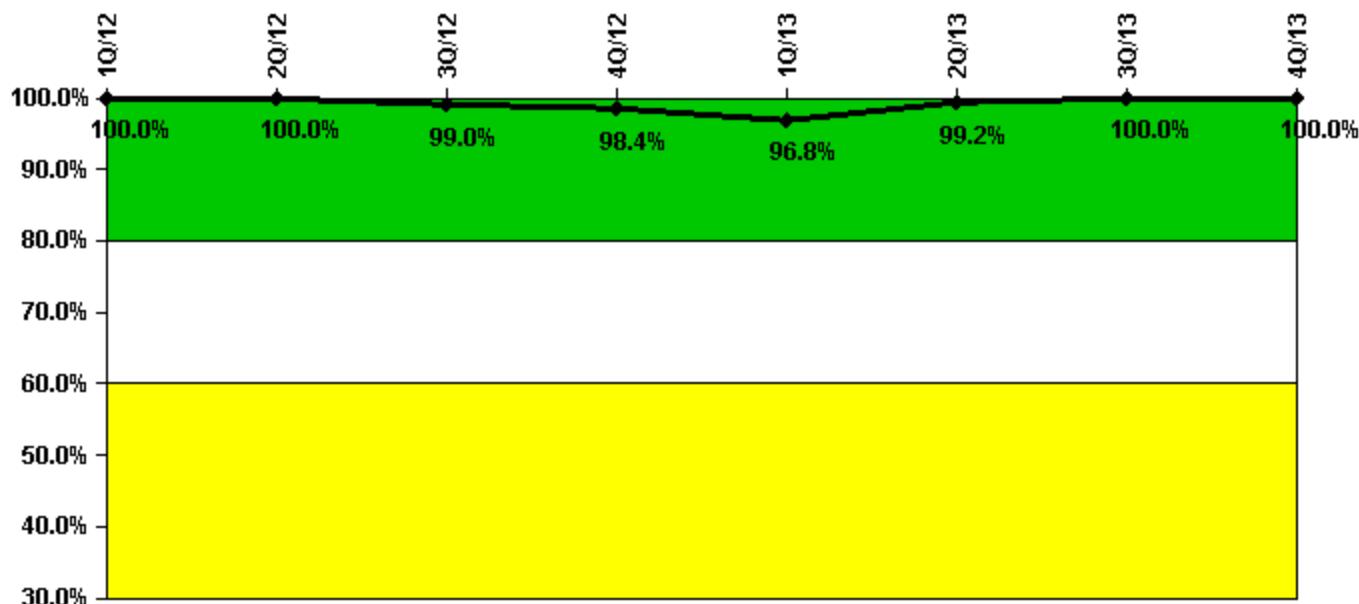
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful opportunities	34.0	24.0	41.0	66.0	68.0	20.0	44.0	0
Total opportunities	35.0	25.0	41.0	67.0	70.0	20.0	44.0	0
Indicator value	95.4%	95.8%	96.0%	96.4%	98.3%	98.3%	98.3%	98.3%

Licensee Comments: none

ERO Drill Participation



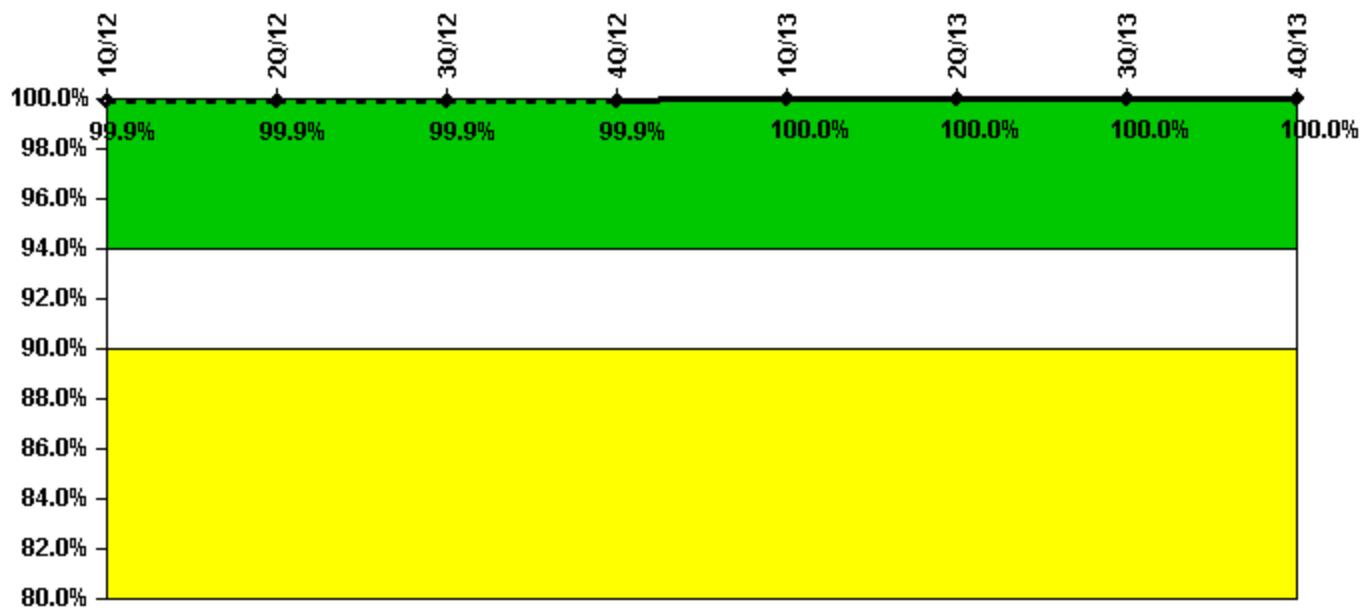
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Participating Key personnel	91.0	89.0	95.0	126.0	120.0	121.0	118.0	118.0
Total Key personnel	91.0	89.0	96.0	128.0	124.0	122.0	118.0	118.0
Indicator value	100.0%	100.0%	99.0%	98.4%	96.8%	99.2%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



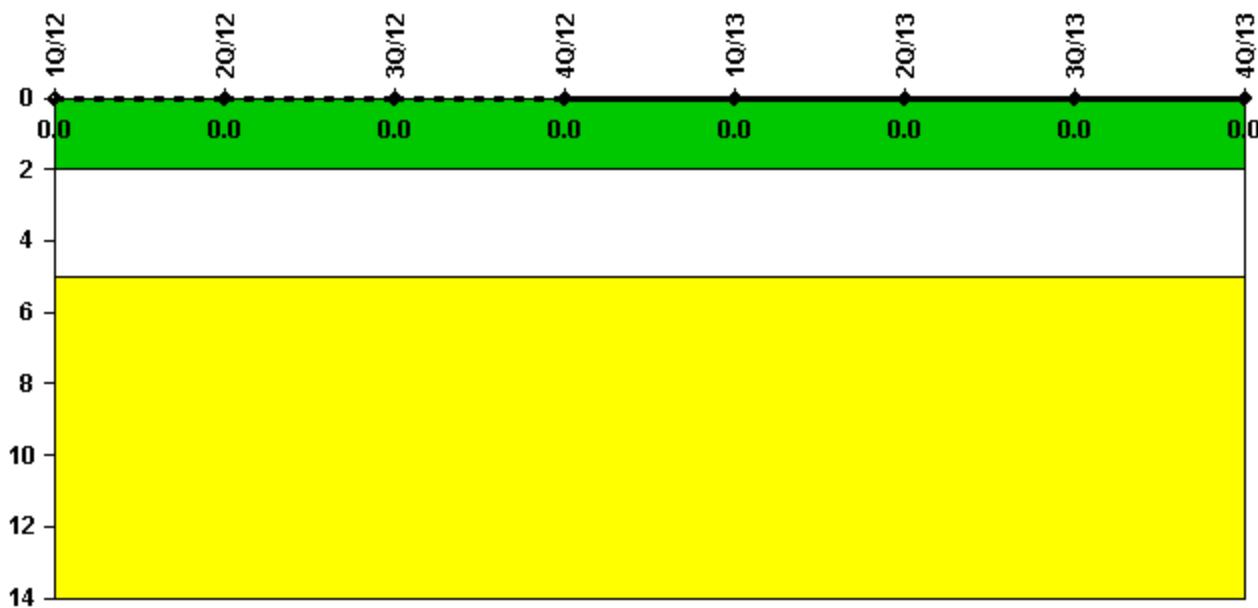
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful siren-tests	1118	1118	1120	1120	1120	1119	1120	1120
Total sirens-tests	1120	1119	1120	1120	1120	1119	1120	1120
Indicator value	99.9%	99.9%	99.9%	99.9%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



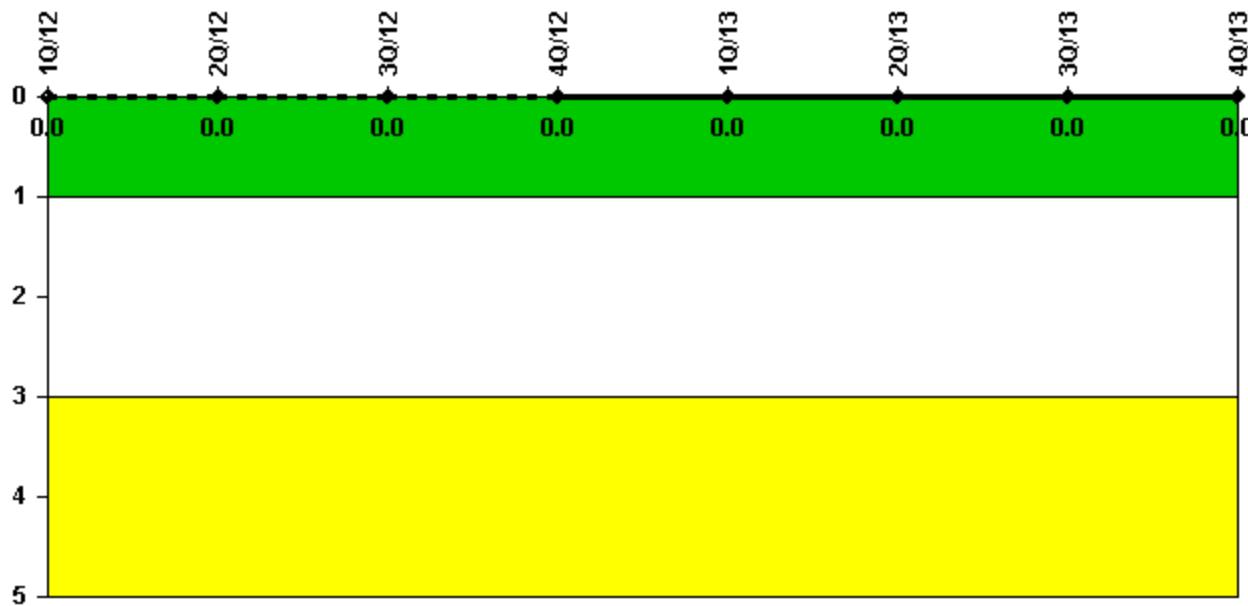
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



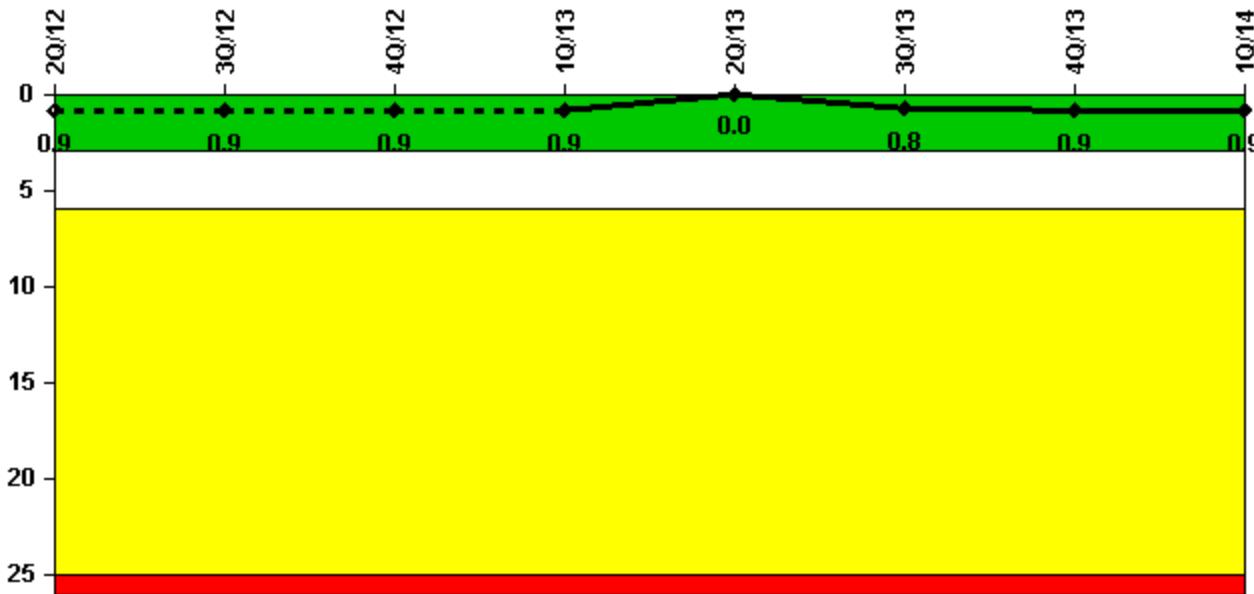
[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: January 22, 2014

D.C. Cook 2**1Q/2014 Performance Indicators**

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

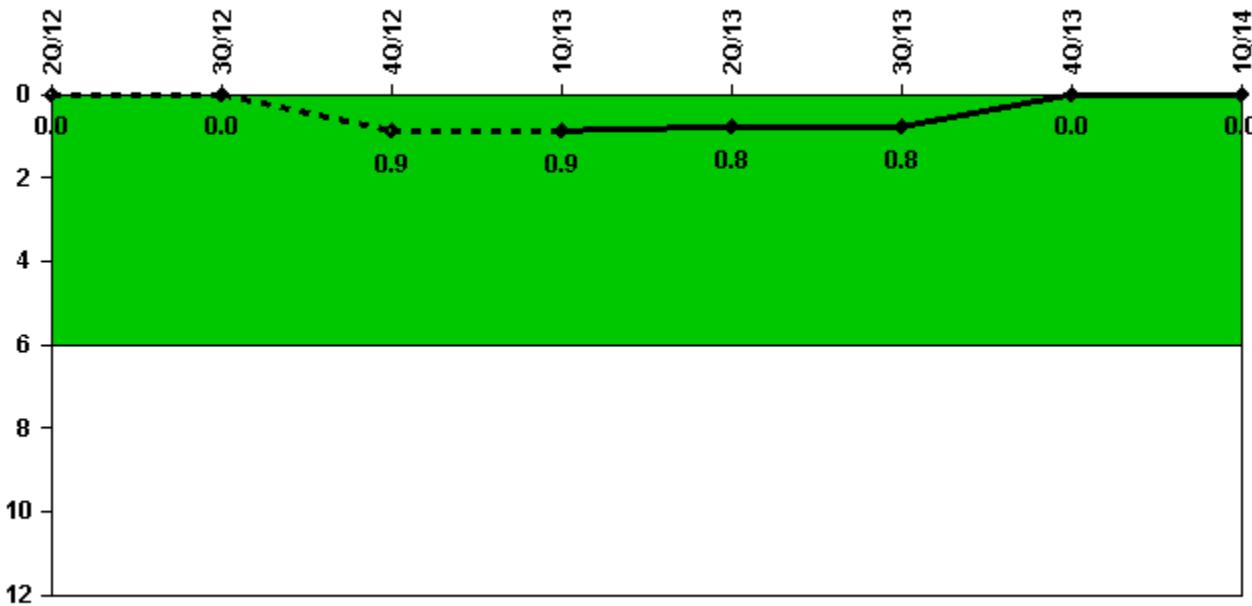
Unplanned Scrams per 7000 Critical Hrs	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Unplanned scrams	1.0	0	0	0	0	1.0	0	0
Critical hours	1510.6	2208.0	2209.0	2159.0	2184.0	2161.1	1238.6	2159.0
Indicator value	0.9	0.9	0.9	0.9	0	0.8	0.9	0.9

Licensee Comments:

3Q/13: A reactor trip due to a turbine generator trip occurred on 7/28/2013 at 1018 due to an incorrect controller setpoint on the Condensate Heater Bypass Control Valve. Subsequently, the reactor was taken critical on 7/30/2013 at 0914.

2Q/12: On April 30, the reactor automatically tripped due to a main generator trip caused by an incorrect protective relay setting.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

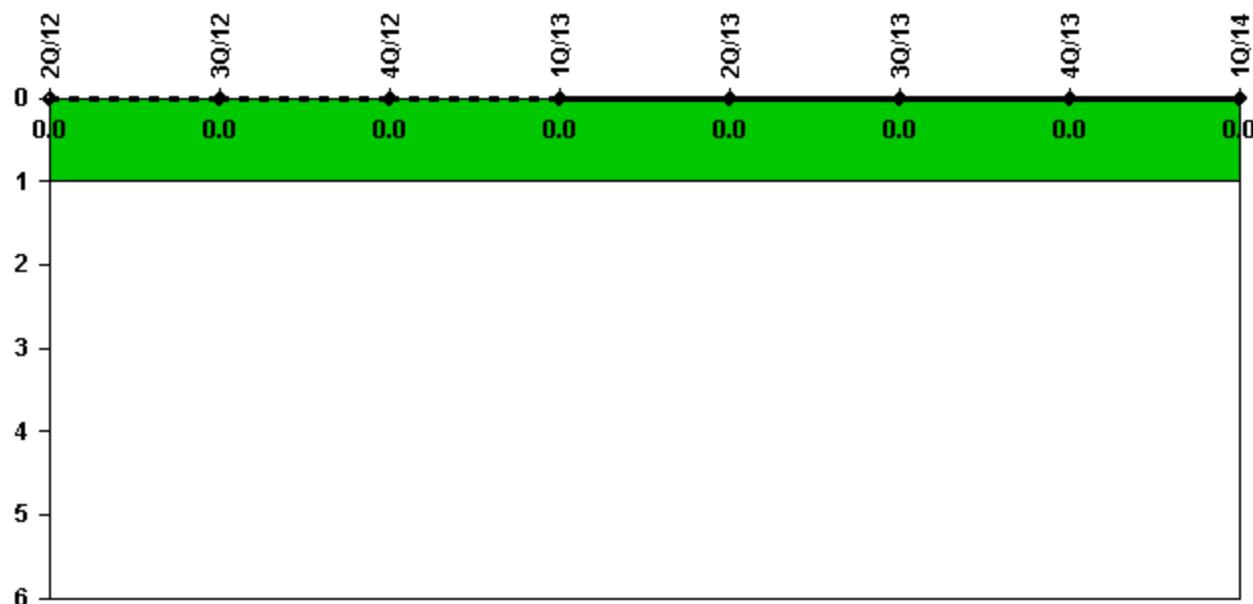
Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	1510.6	2208.0	2209.0	2159.0	2184.0	2161.1	1238.6	2159.0
Indicator value	0	0	0.9	0.9	0.8	0.8	0	0

Licensee Comments:

4Q/12: Downpower to 19% due to 2-BLP-130, Steam Generator Narrow Range Level Transmitter, leak on 11/28/12.

Unplanned Scrams with Complications



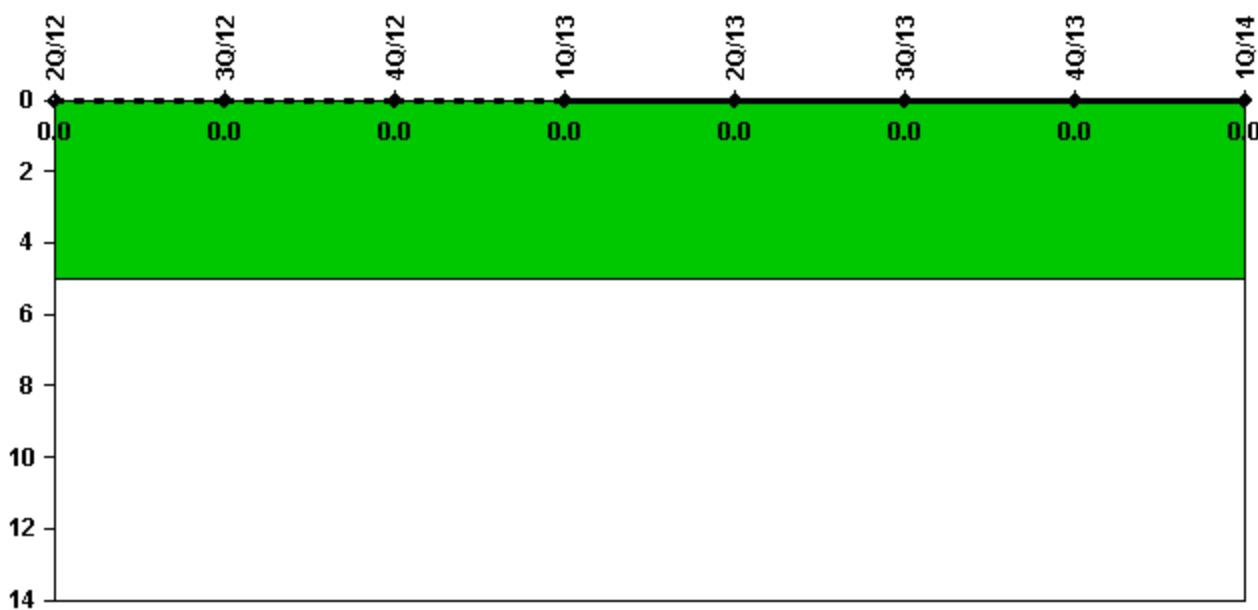
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0							

Licensee Comments: none

Safety System Functional Failures (PWR)



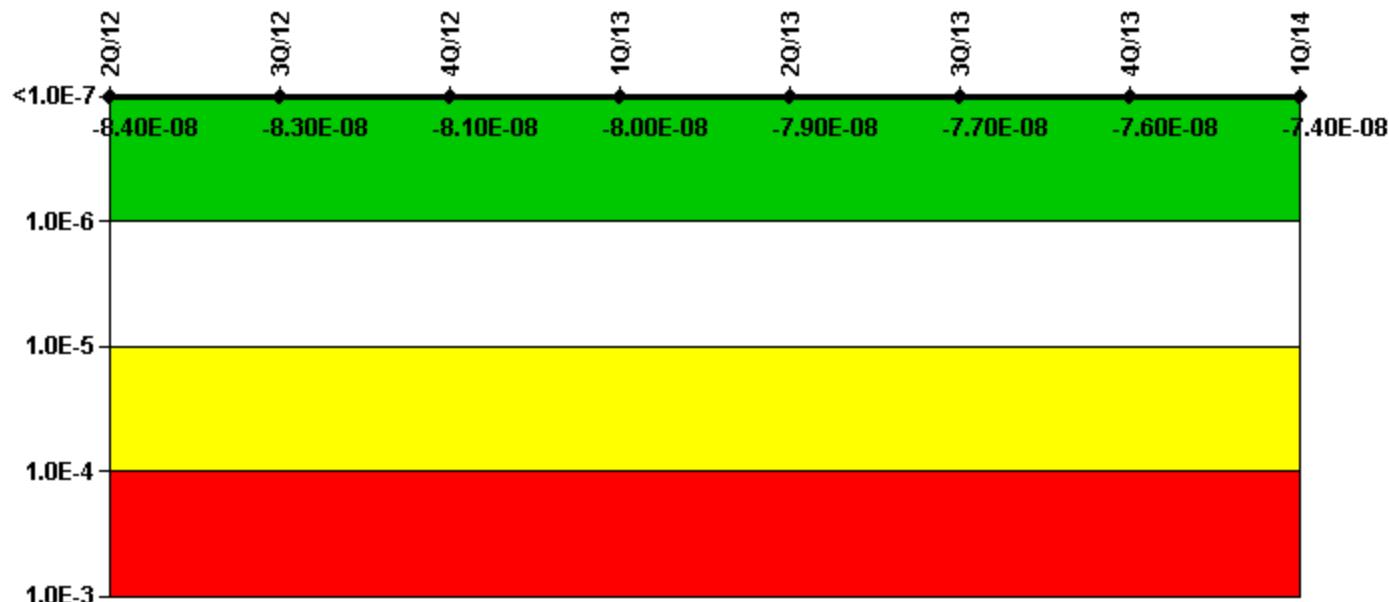
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (Δ CDF)	2.06E-10	-5.99E-11	-6.18E-11	-4.62E-11	-4.69E-11	-2.43E-10	-2.54E-10	-2.69E-10
URI (Δ CDF)	-8.40E-08	-8.27E-08	-8.14E-08	-8.00E-08	-7.86E-08	-7.71E-08	-7.56E-08	-7.41E-08
PLE	NO							
Indicator value	-8.40E-08	-8.30E-08	-8.10E-08	-8.00E-08	-7.90E-08	-7.70E-08	-7.60E-08	-7.40E-08

Licensee Comments:

1Q/14: Revised MSPI Basis Document to update Emergency Diesel Generator Load Run Test Demand estimates.

4Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

3Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

2Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

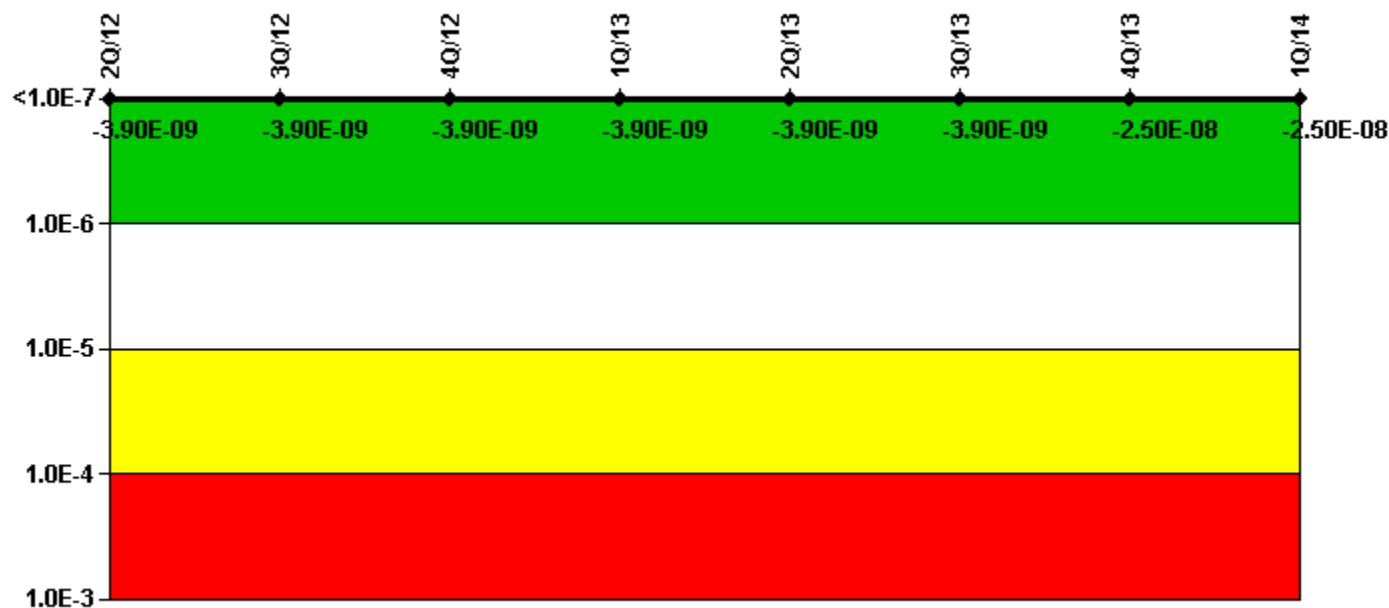
1Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

4Q/12: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

3Q/12: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

2Q/12: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (Δ CDF)	-2.66E-11							
URI (Δ CDF)	-3.82E-09	-3.82E-09	-3.82E-09	-3.82E-09	-3.82E-09	-3.82E-09	-2.54E-08	-2.54E-08

PLE	NO							
Indicator value	-3.90E-09	-3.90E-09	-3.90E-09	-3.90E-09	-3.90E-09	-3.90E-09	-2.50E-08	-2.50E-08

Licensee Comments:

3Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

2Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

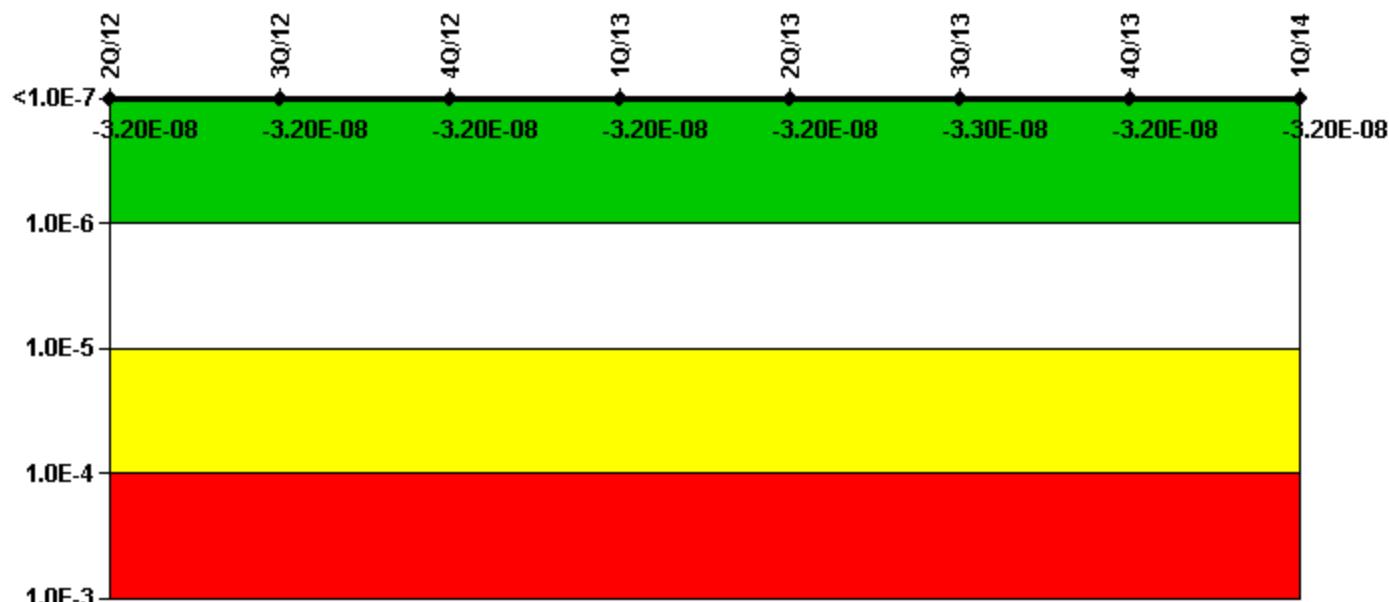
1Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

4Q/12: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

3Q/12: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

2Q/12: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

Mitigating Systems Performance Index, Heat Removal System



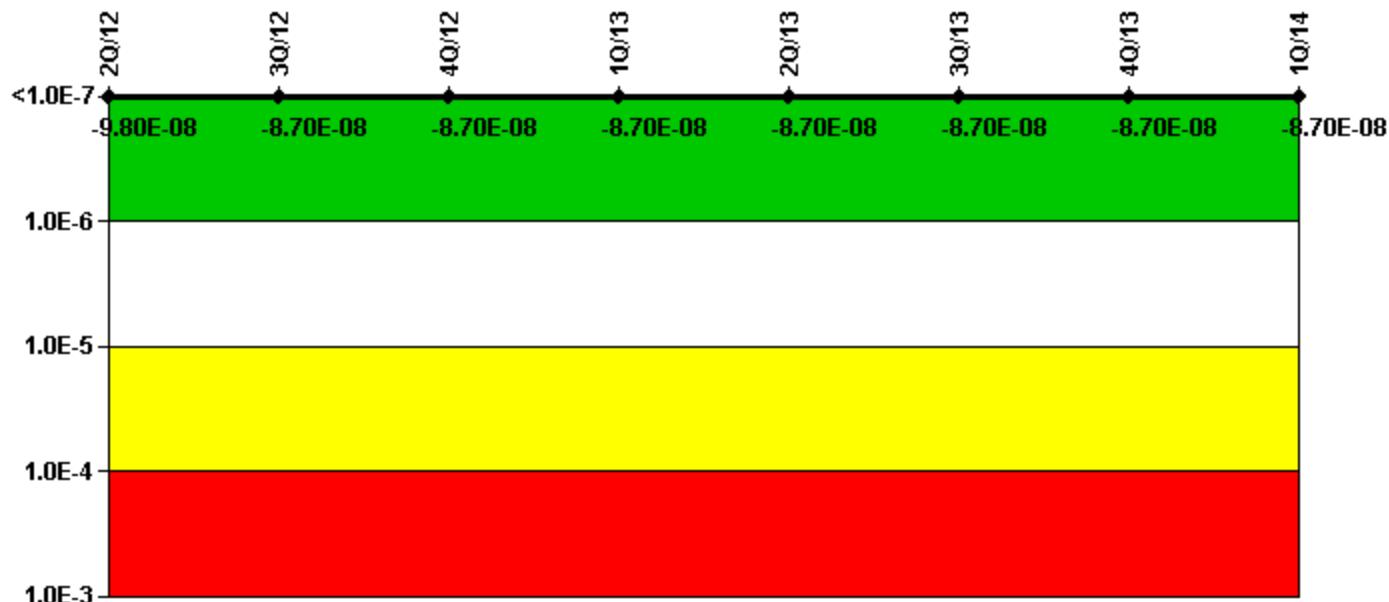
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (Δ CDF)	-2.70E-11	-7.22E-12	-7.22E-12	-9.86E-12	-9.86E-12	-1.28E-11	-1.34E-11	-1.34E-11
URI (Δ CDF)	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.30E-08	-3.23E-08	-3.23E-08
PLE	NO							
Indicator value	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.30E-08	-3.20E-08	-3.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

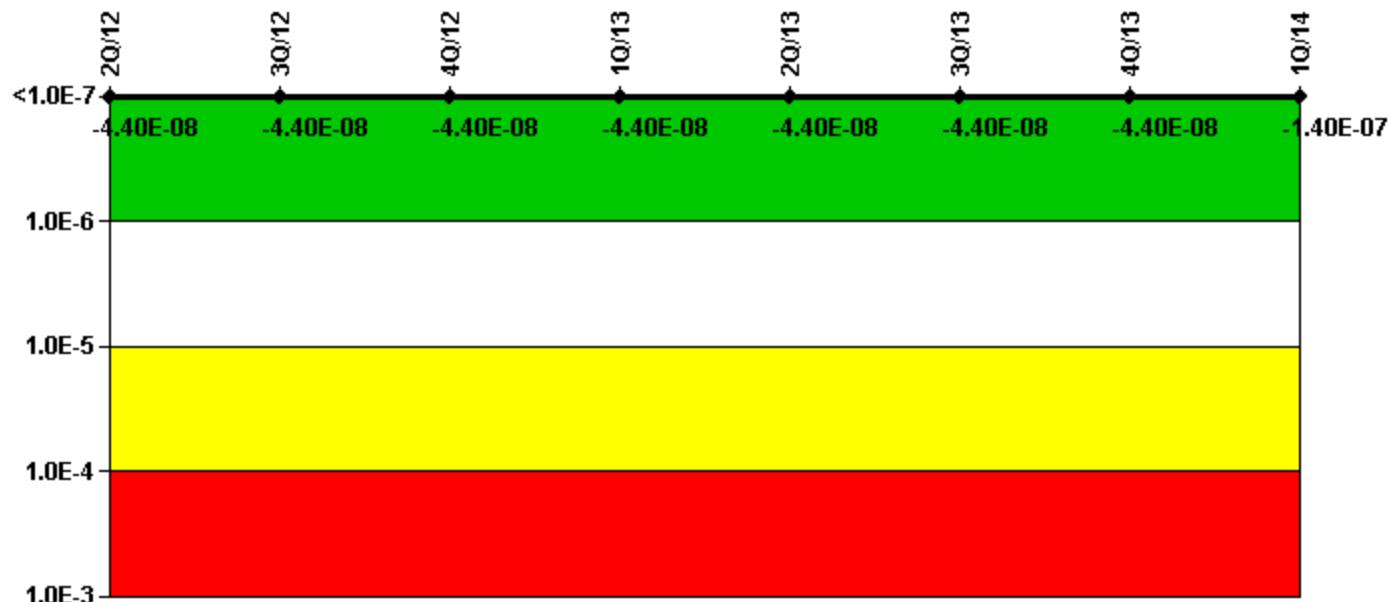
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (Δ CDF)	-3.23E-13	-1.68E-13	-2.07E-13	-2.07E-13	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13
URI (Δ CDF)	-9.83E-08	-8.69E-08						
PLE	NO							
Indicator value	-9.80E-08	-8.70E-08						

Licensee Comments:

2Q/12: The MSPI Basis document was revised to exclude two Unit 2 RHR heat exchanger CCW outlet valves from monitoring based on their Birnbaum importance.

Mitigating Systems Performance Index, Cooling Water Systems



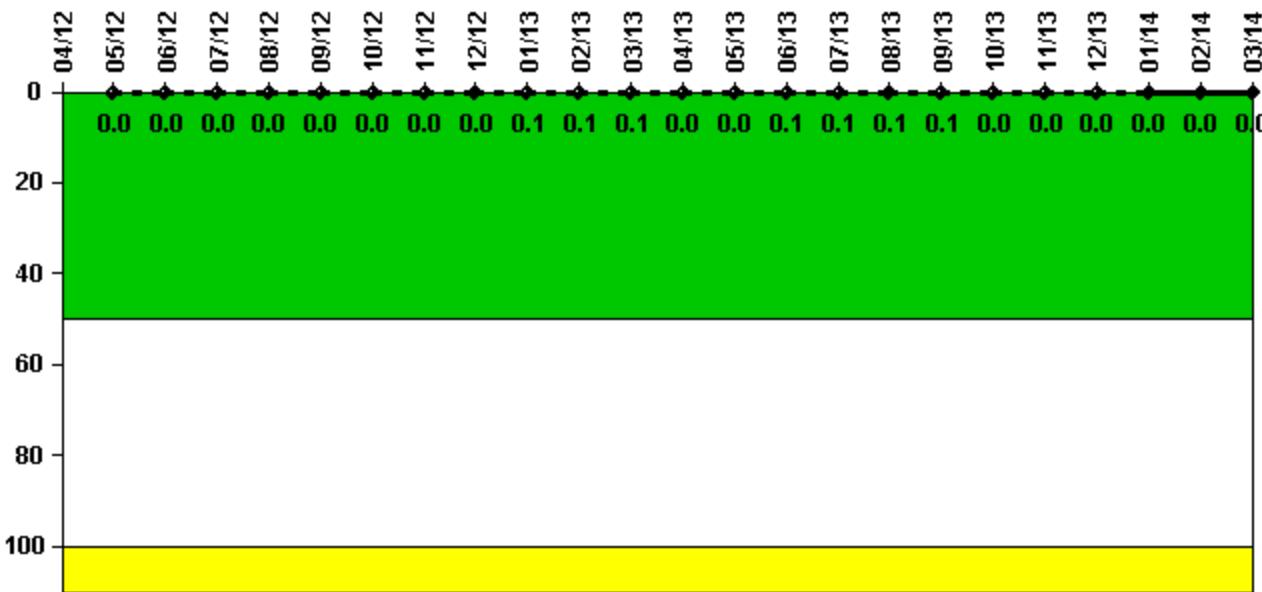
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (Δ CDF)	3.33E-11	6.99E-11	6.99E-11	-2.61E-12	-2.61E-12	-2.33E-12	1.17E-12	-3.82E-11
URI (Δ CDF)	-4.36E-08	-1.40E-07						
PLE	NO							
Indicator value	-4.40E-08	-1.40E-07						

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

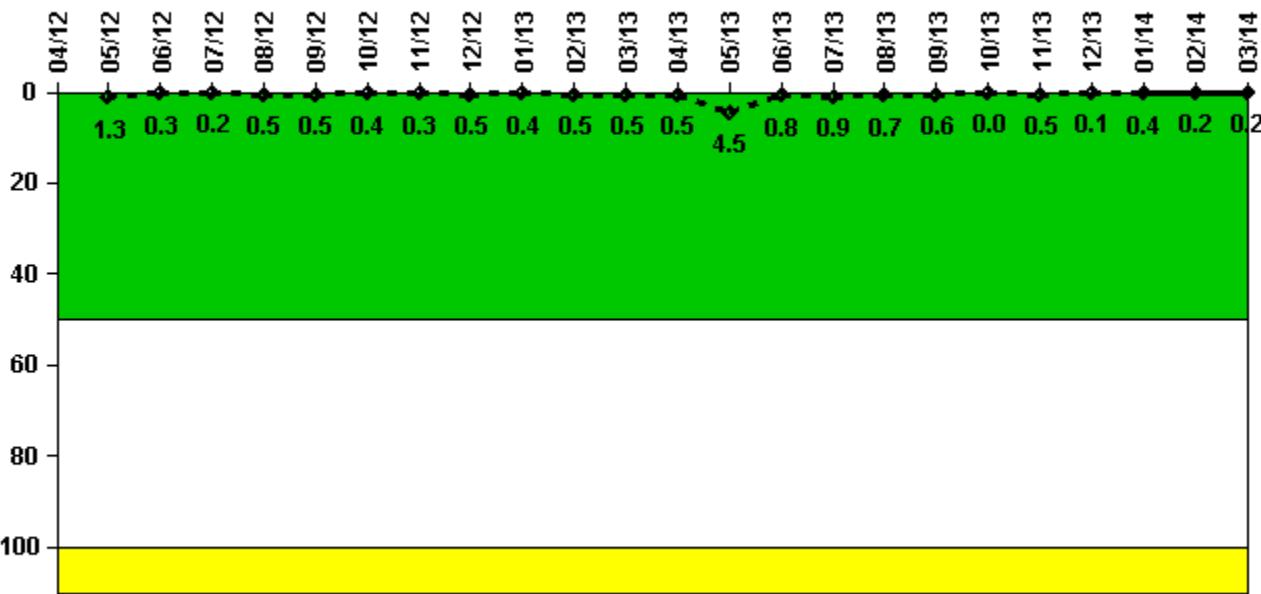
Notes

Reactor Coolant System Activity	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum activity	N/A	0.000097	0.000099	0.000104	0.000205	0.000120	0.000123	0.000160	0.000130	0.000213	0.000190	0.000176
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.4	0.4	0.4
Indicator value	N/A	0	0	0	0	0	0	0	0	0.1	0.1	0.1
Reactor Coolant System Activity	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum activity	0.000162	0.000168	0.000175	0.000183	0.000191	0.000382	0.000164	0.000068	0.000090	0.000095	0.000099	0.000102
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0

Licensee Comments:

6/12: Due to a refueling outage followed by power escalation, no RCS activity data is available for April.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

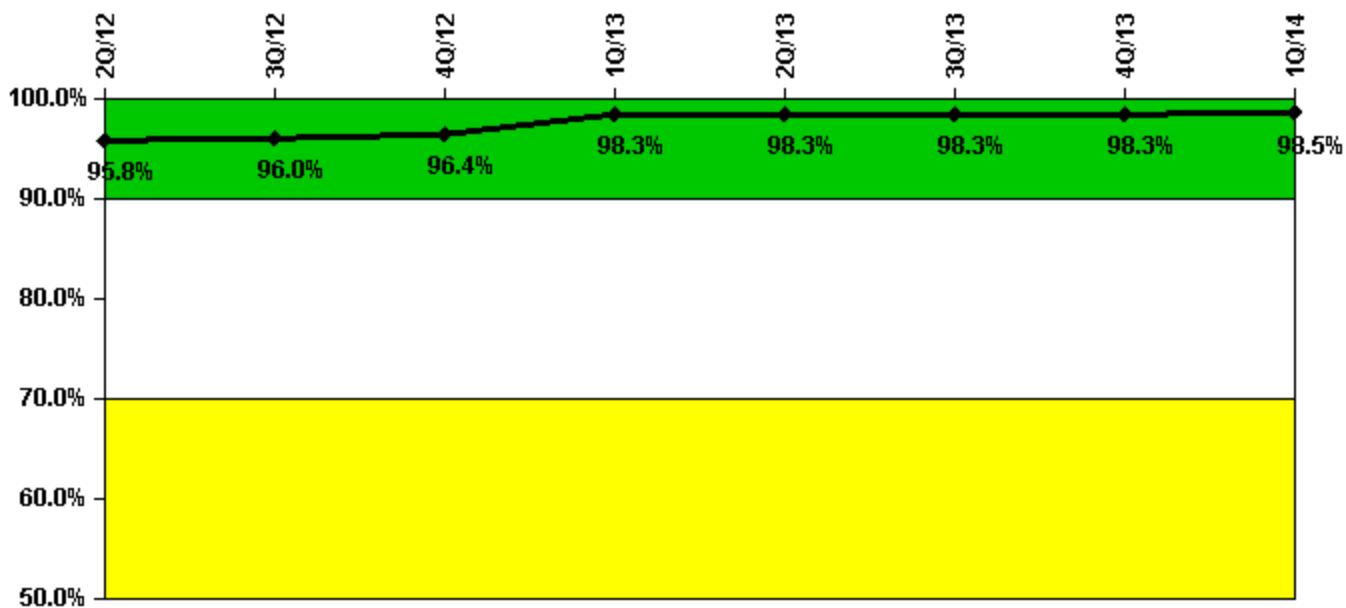
Notes

Reactor Coolant System Leakage	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum leakage	N/A	0.147	0.031	0.023	0.050	0.055	0.040	0.034	0.057	0.039	0.054	0.056
Indicator value	N/A	1.3	0.3	0.2	0.5	0.5	0.4	0.3	0.5	0.4	0.5	0.5
Reactor Coolant System Leakage	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum leakage	0.050	0.490	0.085	0.096	0.073	0.067	0	0.052	0.010	0.045	0.026	0.024
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.5	4.5	0.8	0.9	0.7	0.6	0	0.5	0.1	0.4	0.2	0.2

Licensee Comments:

6/12: Due to a refueling outage followed by power escalation, no RCS leakage data is available for April.

Drill/Exercise Performance



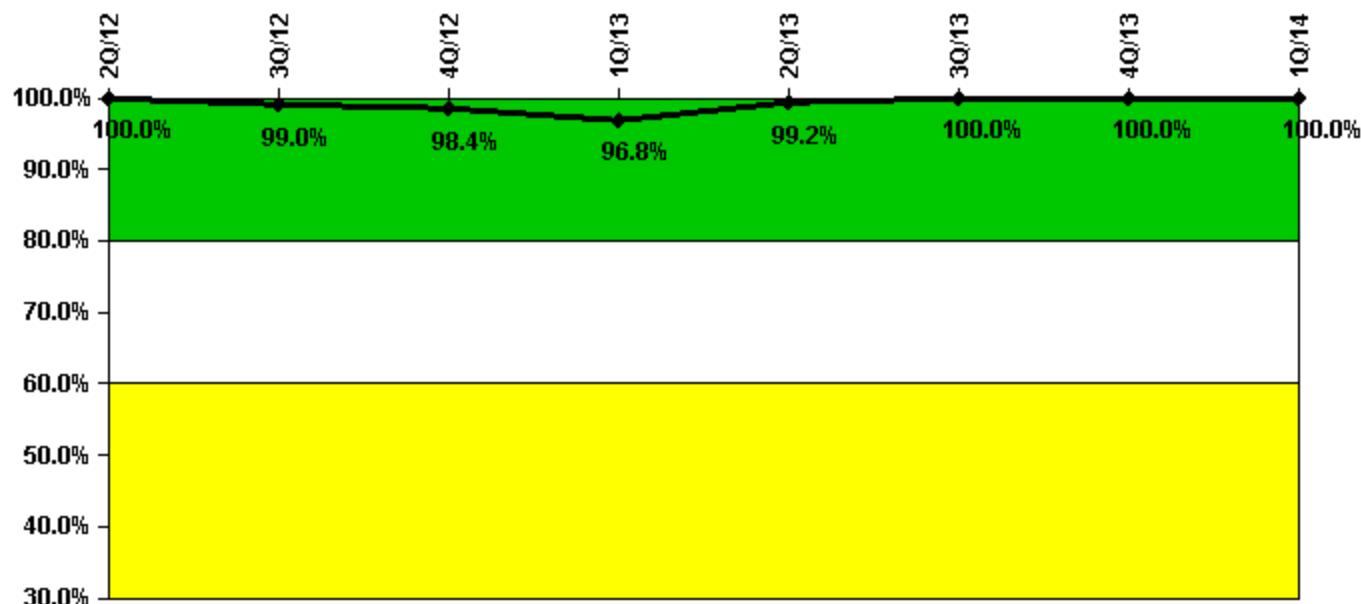
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful opportunities	24.0	41.0	66.0	68.0	20.0	44.0	0	55.0
Total opportunities	25.0	41.0	67.0	70.0	20.0	44.0	0	56.0
Indicator value	95.8%	96.0%	96.4%	98.3%	98.3%	98.3%	98.3%	98.5%

Licensee Comments: none

ERO Drill Participation



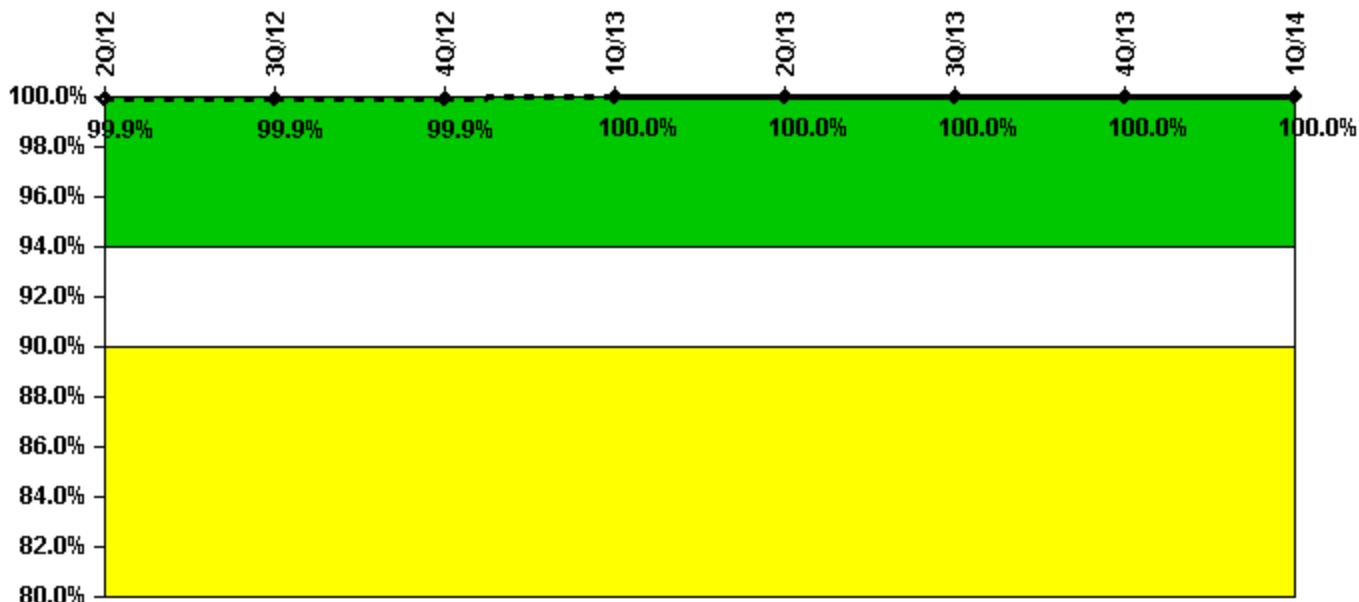
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Participating Key personnel	89.0	95.0	126.0	120.0	121.0	118.0	118.0	120.0
Total Key personnel	89.0	96.0	128.0	124.0	122.0	118.0	118.0	120.0
Indicator value	100.0%	99.0%	98.4%	96.8%	99.2%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



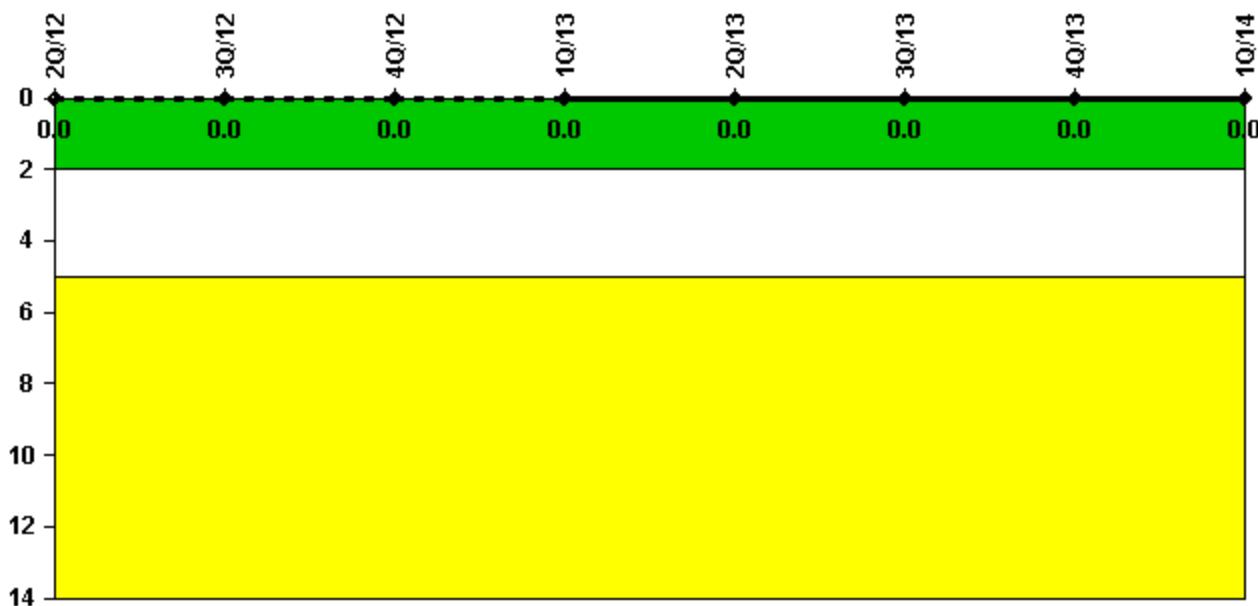
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful siren-tests	1118	1120	1120	1120	1119	1120	1120	1120
Total sirens-tests	1119	1120	1120	1120	1119	1120	1120	1120
Indicator value	99.9%	99.9%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



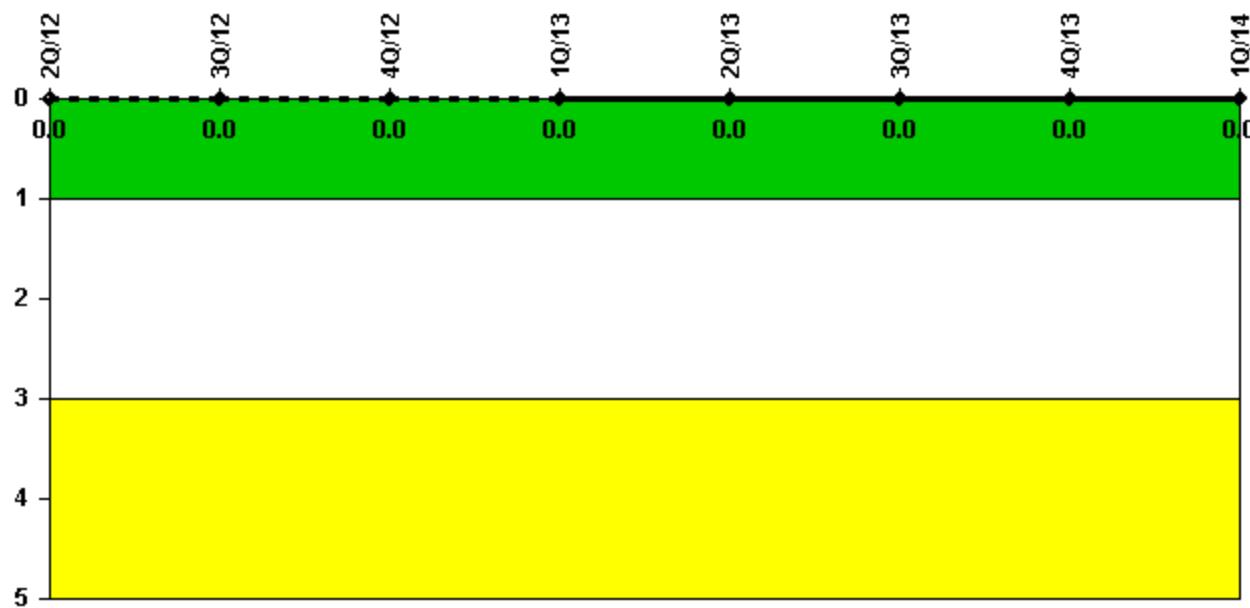
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



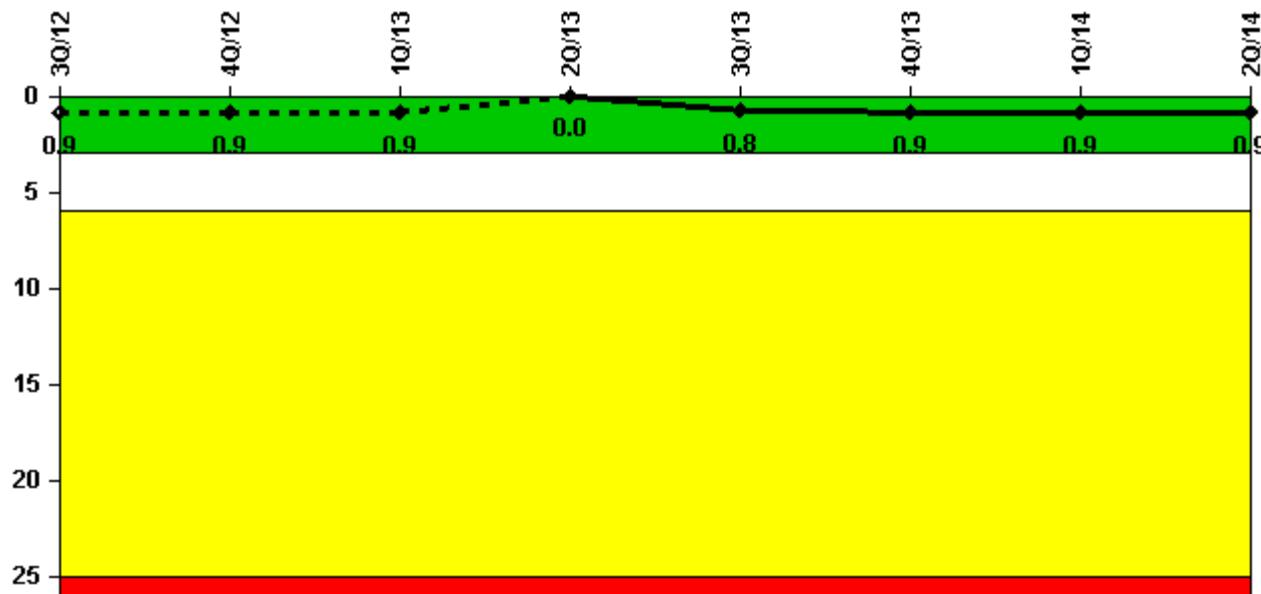
[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: April 23, 2014

D.C. Cook 2**2Q/2014 Performance Indicators**

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

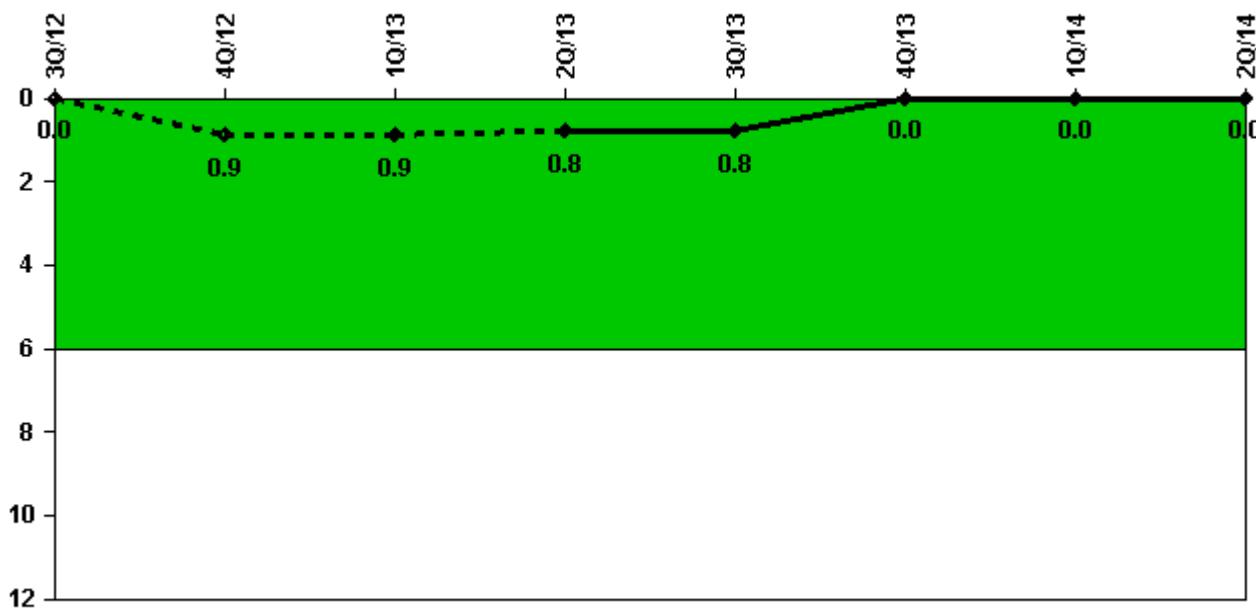
Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	2161.1	1238.6	2159.0	2184.0
Indicator value	0.9	0.9	0.9	0	0.8	0.9	0.9	0.9

Licensee Comments:

3Q/13: A reactor trip due to a turbine generator trip occurred on 7/28/2013 at 1018 due to an incorrect controller setpoint on the Condensate Heater Bypass Control Valve. Subsequently, the reactor was taken critical on 7/30/2013 at 0914.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

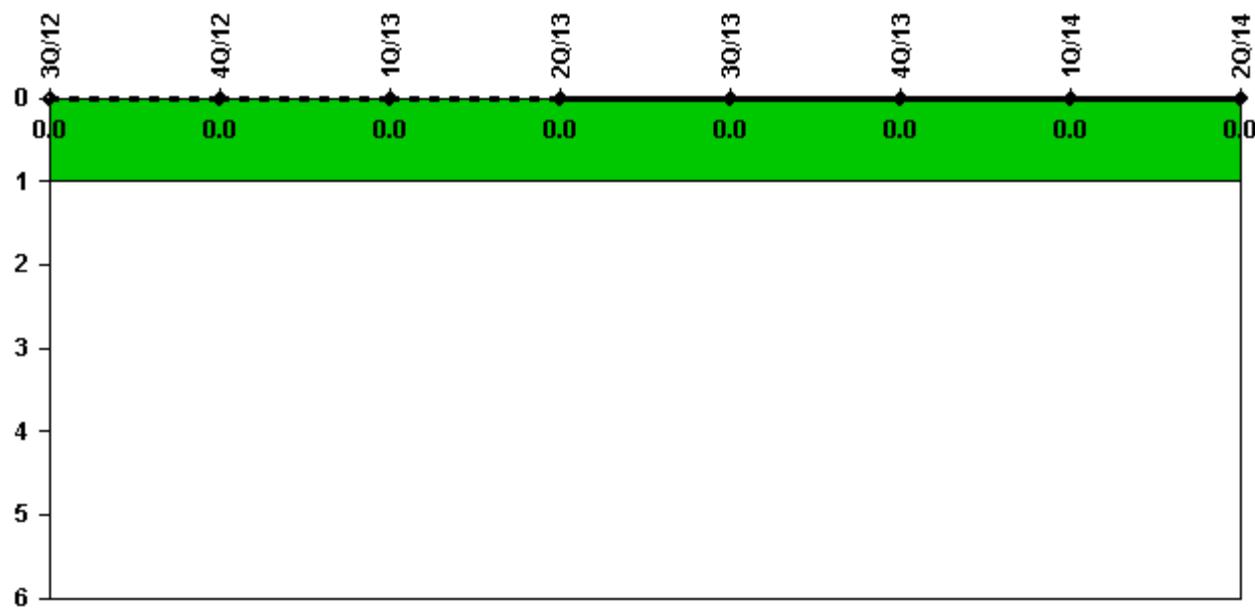
Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	2161.1	1238.6	2159.0	2184.0
Indicator value	0	0.9	0.9	0.8	0.8	0	0	0

Licensee Comments:

4Q/12: Downpower to 19% due to 2-BLP-130, Steam Generator Narrow Range Level Transmitter, leak on 11/28/12.

Unplanned Scrams with Complications



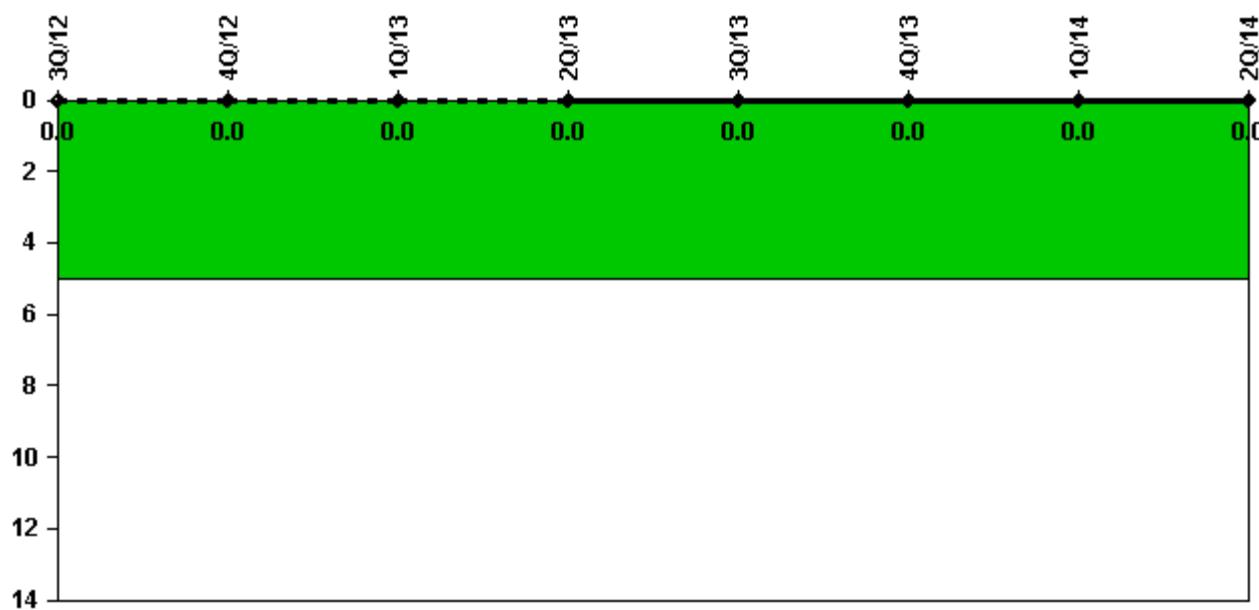
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0							

Licensee Comments: none

Safety System Functional Failures (PWR)



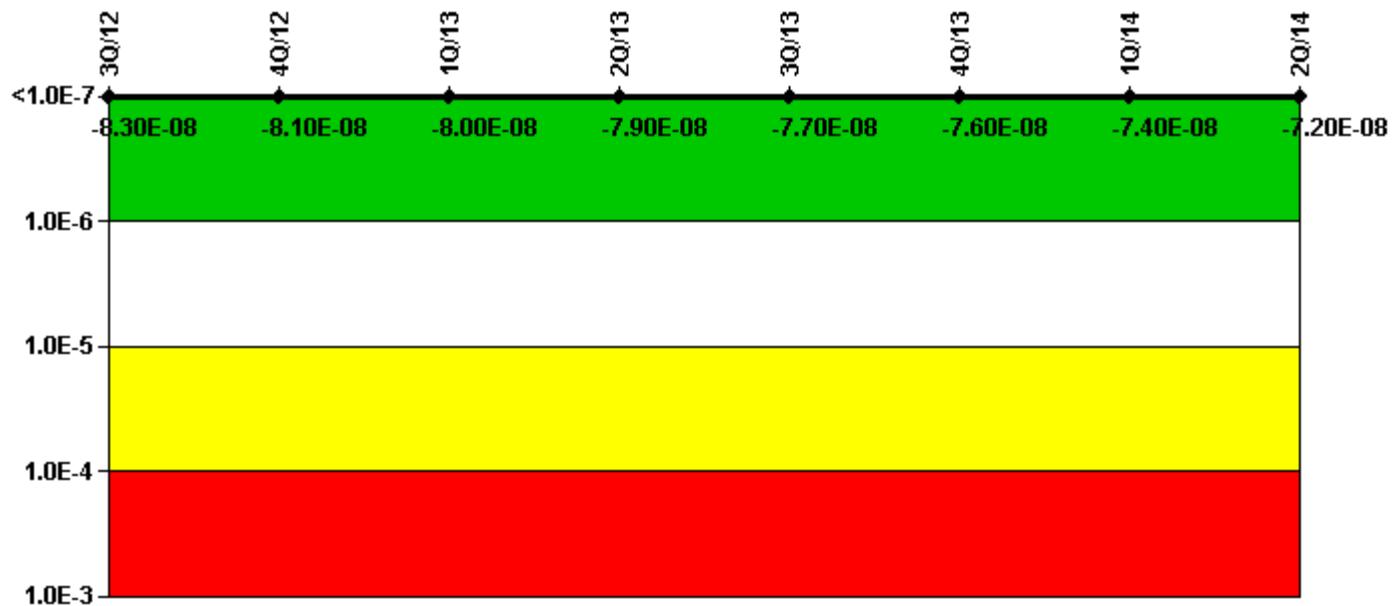
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (Δ CDF)	-5.99E-11	-6.18E-11	-4.62E-11	-4.69E-11	-2.43E-10	-2.54E-10	-2.69E-10	2.45E-10
URI (Δ CDF)	-8.27E-08	-8.14E-08	-8.00E-08	-7.86E-08	-7.71E-08	-7.56E-08	-7.41E-08	-7.25E-08
PLE	NO							
Indicator value	-8.30E-08	-8.10E-08	-8.00E-08	-7.90E-08	-7.70E-08	-7.60E-08	-7.40E-08	-7.20E-08

Licensee Comments:

1Q/14: Revised MSPI Basis Document to update Emergency Diesel Generator Load Run Test Demand estimates.

4Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

3Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

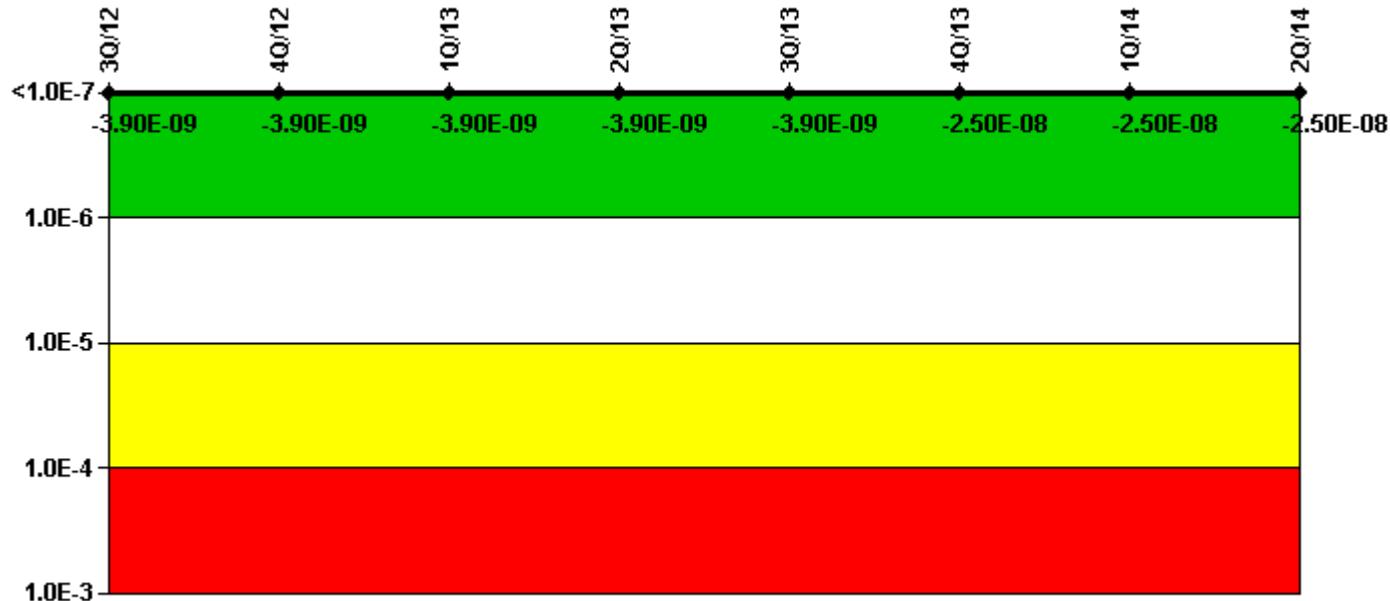
2Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

1Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

4Q/12: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

3Q/12: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (Δ CDF)	-2.66E-11							
URI (Δ CDF)	-3.82E-09	-3.82E-09	-3.82E-09	-3.82E-09	-3.82E-09	-2.54E-08	-2.54E-08	-2.54E-08
PLE	NO							
Indicator value	-3.90E-09	-3.90E-09	-3.90E-09	-3.90E-09	-3.90E-09	-2.50E-08	-2.50E-08	-2.50E-08

Licensee Comments:

3Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

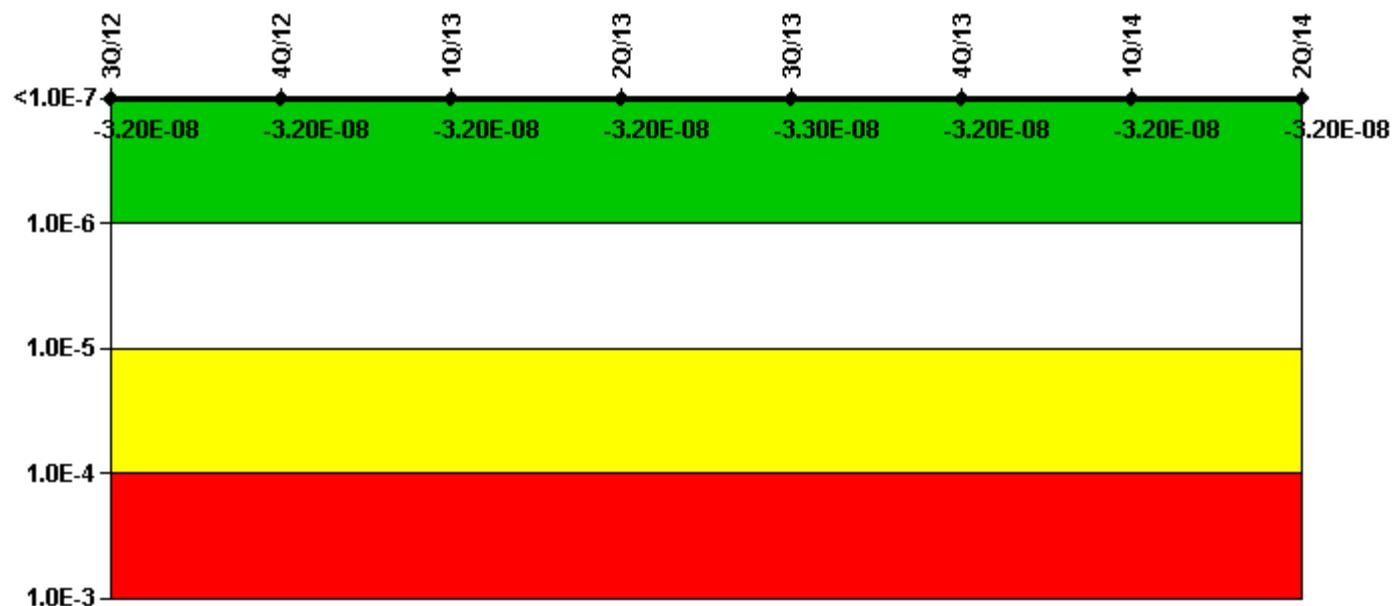
2Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

1Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

4Q/12: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

3Q/12: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

Mitigating Systems Performance Index, Heat Removal System



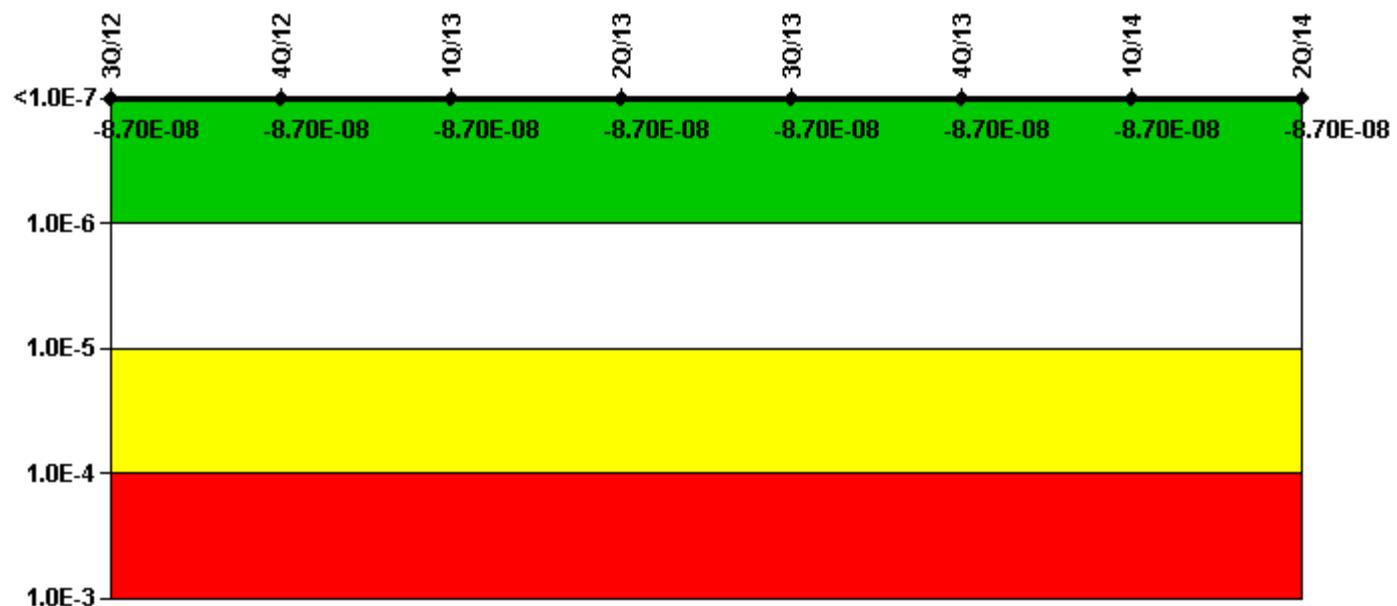
Thresholds: White $> 1.00E-6$ Yellow $> 1.00E-5$ Red $> 1.00E-4$

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (Δ CDF)	-7.22E-12	-7.22E-12	-9.86E-12	-9.86E-12	-1.28E-11	-1.34E-11	-1.34E-11	8.06E-12
URI (Δ CDF)	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.30E-08	-3.23E-08	-3.23E-08	-3.23E-08
PLE	NO							
Indicator value	-3.20E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.30E-08	-3.20E-08	-3.20E-08	-3.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



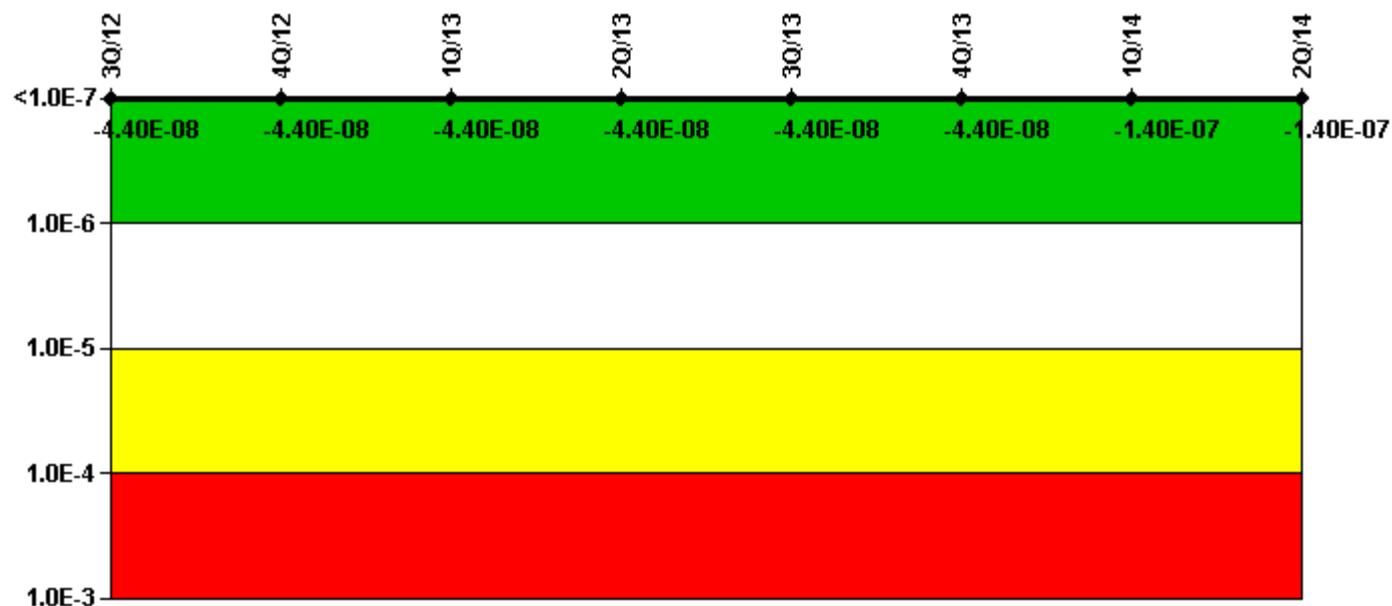
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (Δ CDF)	-1.68E-13	-2.07E-13	-2.07E-13	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13	-2.16E-13
URI (Δ CDF)	-8.69E-08							
PLE	NO							
Indicator value	-8.70E-08							

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



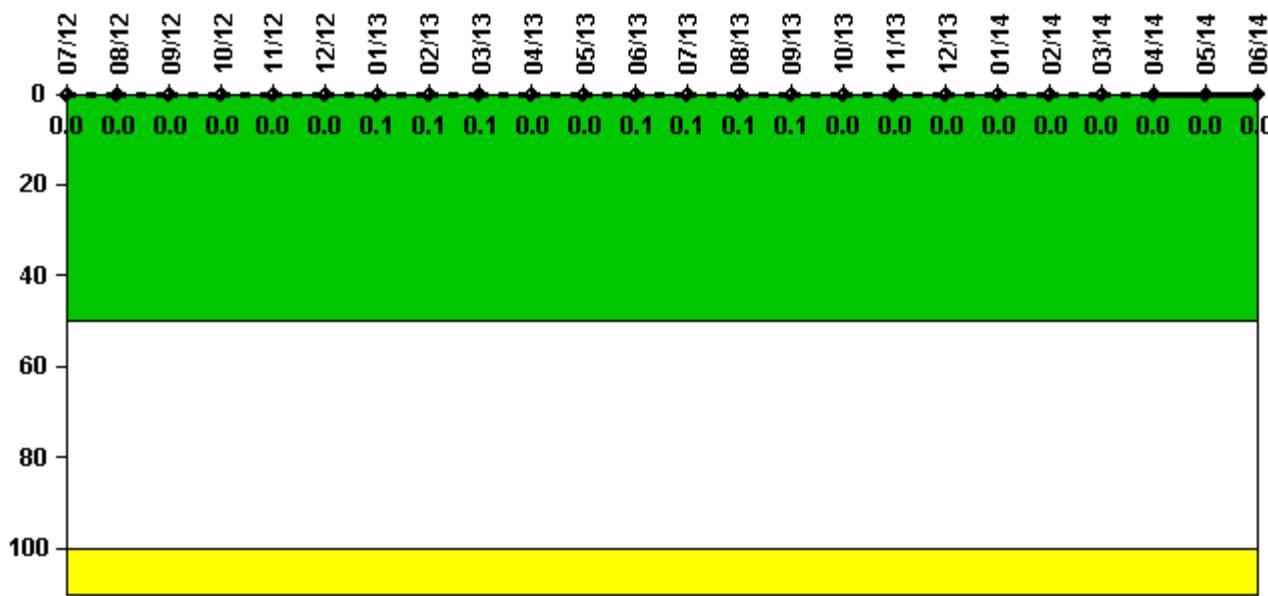
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (Δ CDF)	6.99E-11	6.99E-11	-2.61E-12	-2.61E-12	-2.33E-12	1.17E-12	-3.82E-11	-3.82E-11
URI (Δ CDF)	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08	-1.40E-07	-1.40E-07
PLE	NO							
Indicator value	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-1.40E-07	-1.40E-07

Licensee Comments: none

Reactor Coolant System Activity



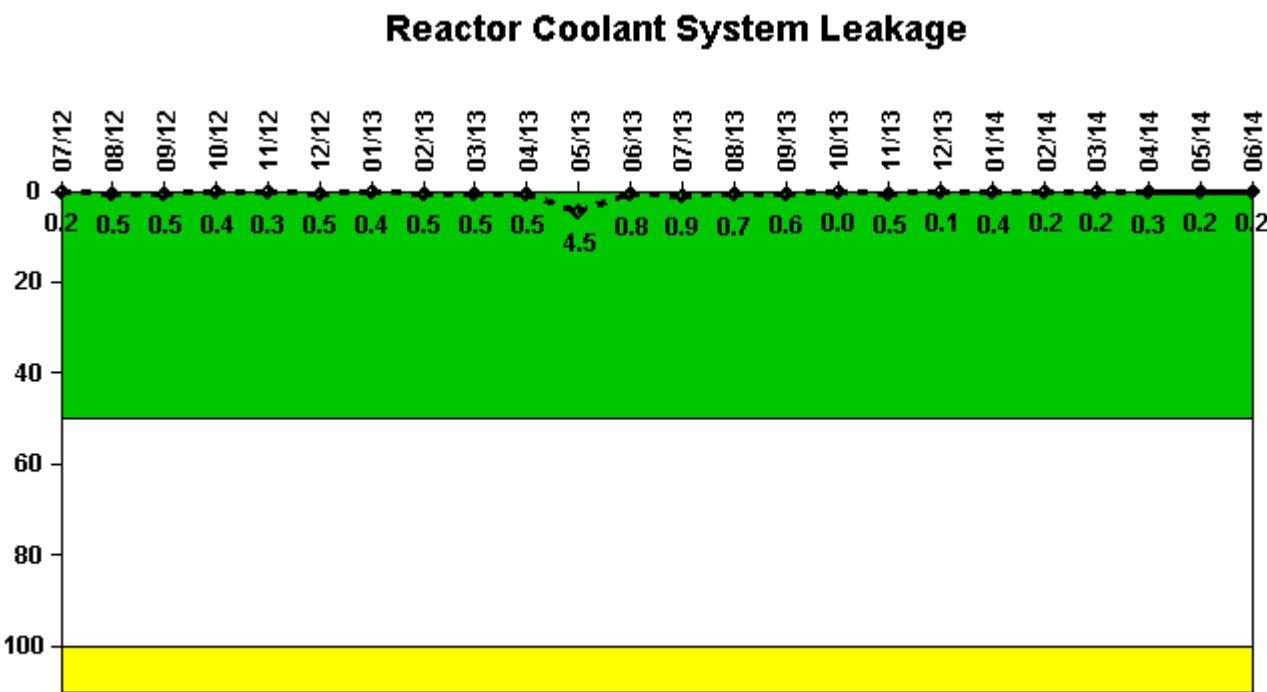
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum activity	0.000104	0.000205	0.000120	0.000123	0.000160	0.000130	0.000213	0.000190	0.000176	0.000162	0.000168	0.000175
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0	0	0	0	0.1	0.1	0.1	0	0	0.1

Reactor Coolant System Activity	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum activity	0.000183	0.000191	0.000382	0.000164	0.000068	0.000090	0.000095	0.000099	0.000102	0.000115	0.000111	0.000114
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0

Licensee Comments: none



Thresholds: White > 50.0 Yellow > 100.0

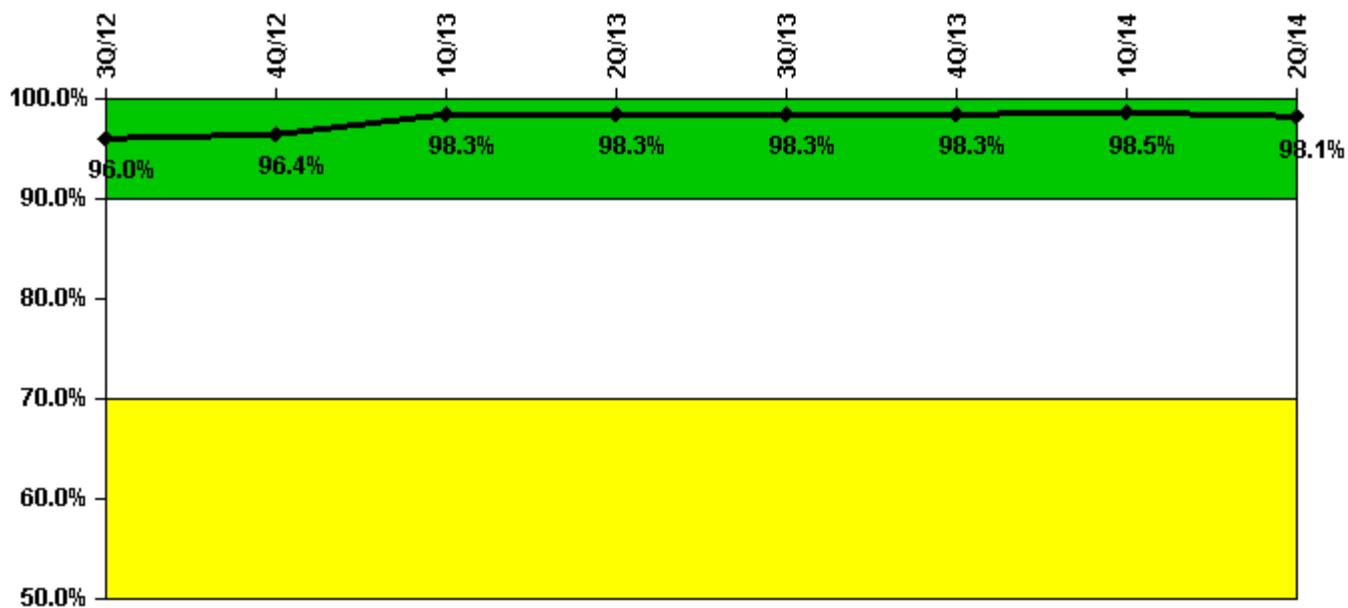
Notes

Reactor Coolant System Leakage	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum leakage	0.023	0.050	0.055	0.040	0.034	0.057	0.039	0.054	0.056	0.050	0.490	0.085
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.2	0.5	0.5	0.4	0.3	0.5	0.4	0.5	0.5	0.5	4.5	0.8

Reactor Coolant System Leakage	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum leakage	0.096	0.073	0.067	0	0.052	0.010	0.045	0.026	0.024	0.028	0.023	0.024
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.9	0.7	0.6	0	0.5	0.1	0.4	0.2	0.2	0.3	0.2	0.2

Licensee Comments: none

Drill/Exercise Performance



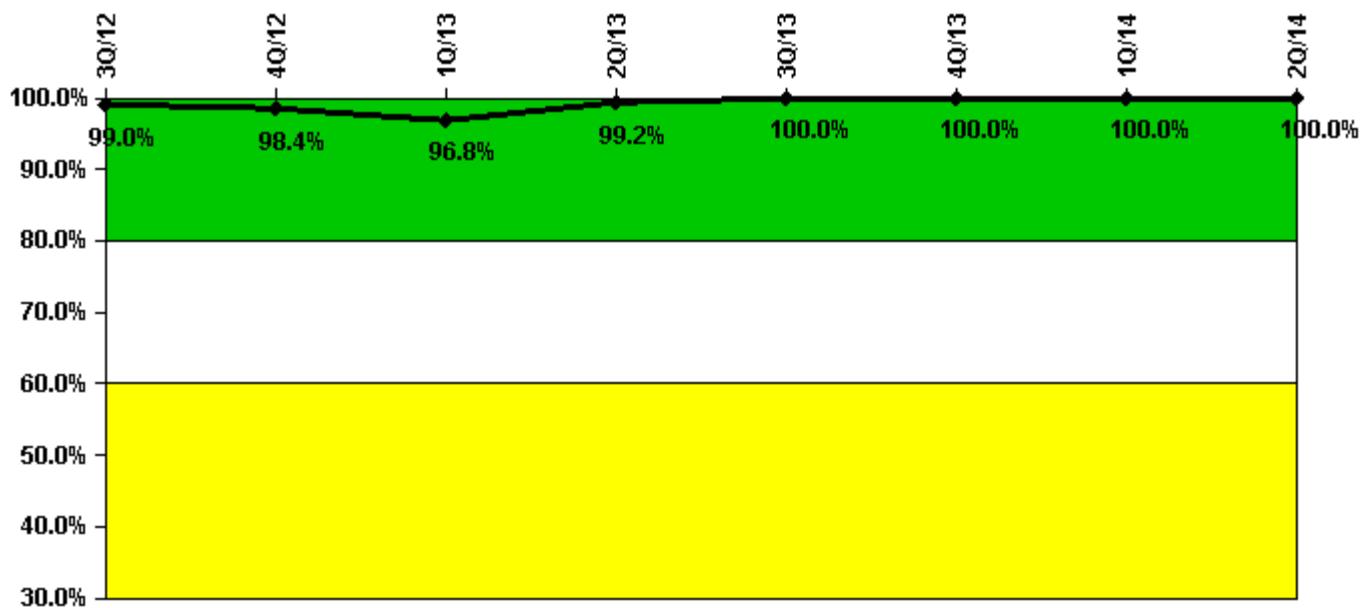
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful opportunities	41.0	66.0	68.0	20.0	44.0	0	55.0	23.0
Total opportunities	41.0	67.0	70.0	20.0	44.0	0	56.0	25.0
Indicator value	96.0%	96.4%	98.3%	98.3%	98.3%	98.3%	98.5%	98.1%

Licensee Comments: none

ERO Drill Participation



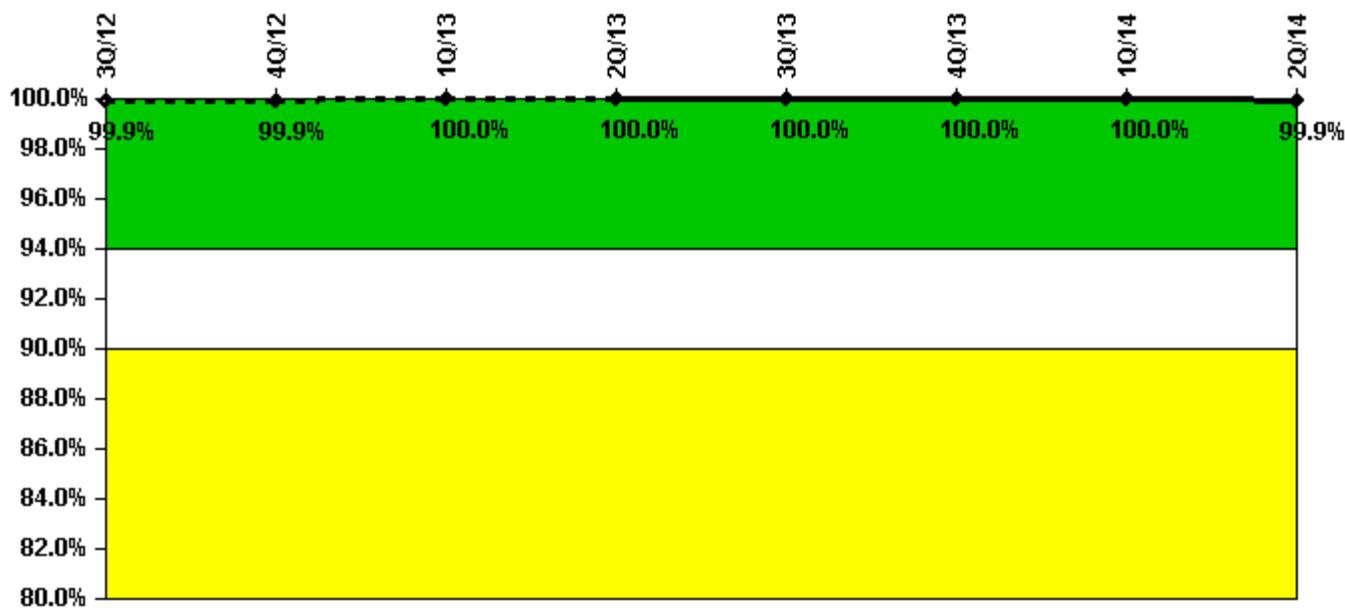
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Participating Key personnel	95.0	126.0	120.0	121.0	118.0	118.0	120.0	118.0
Total Key personnel	96.0	128.0	124.0	122.0	118.0	118.0	120.0	118.0
Indicator value	99.0%	98.4%	96.8%	99.2%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



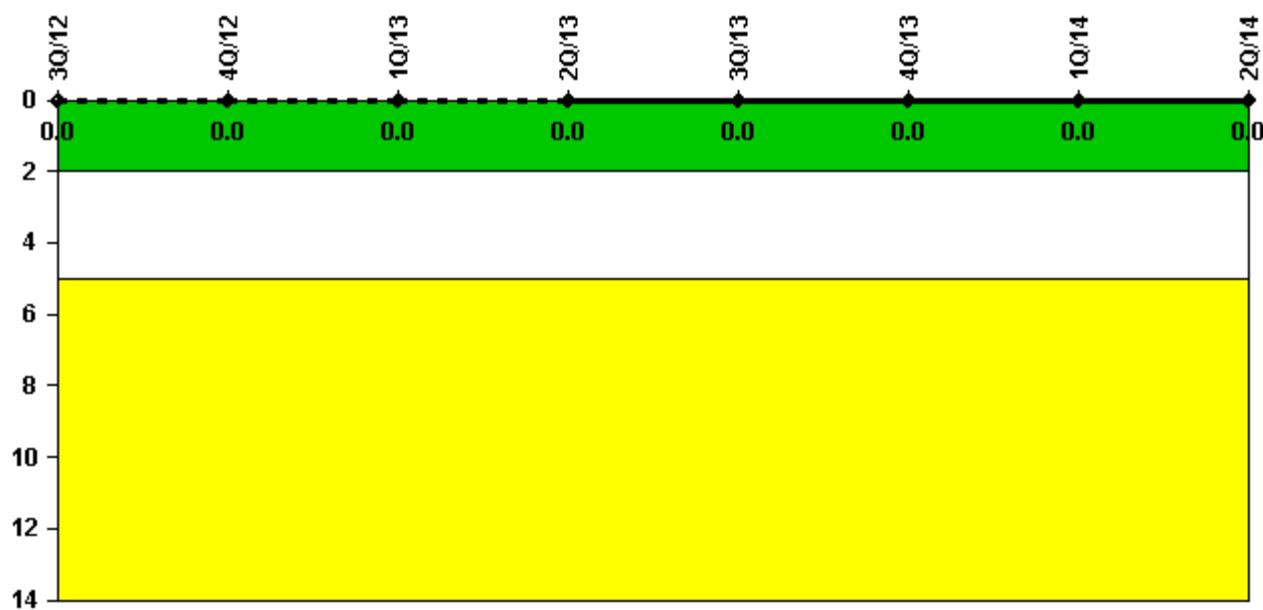
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful siren-tests	1120	1120	1120	1119	1120	1120	1119	1116
Total sirens-tests	1120	1120	1120	1119	1120	1120	1120	1119
Indicator value	99.9%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



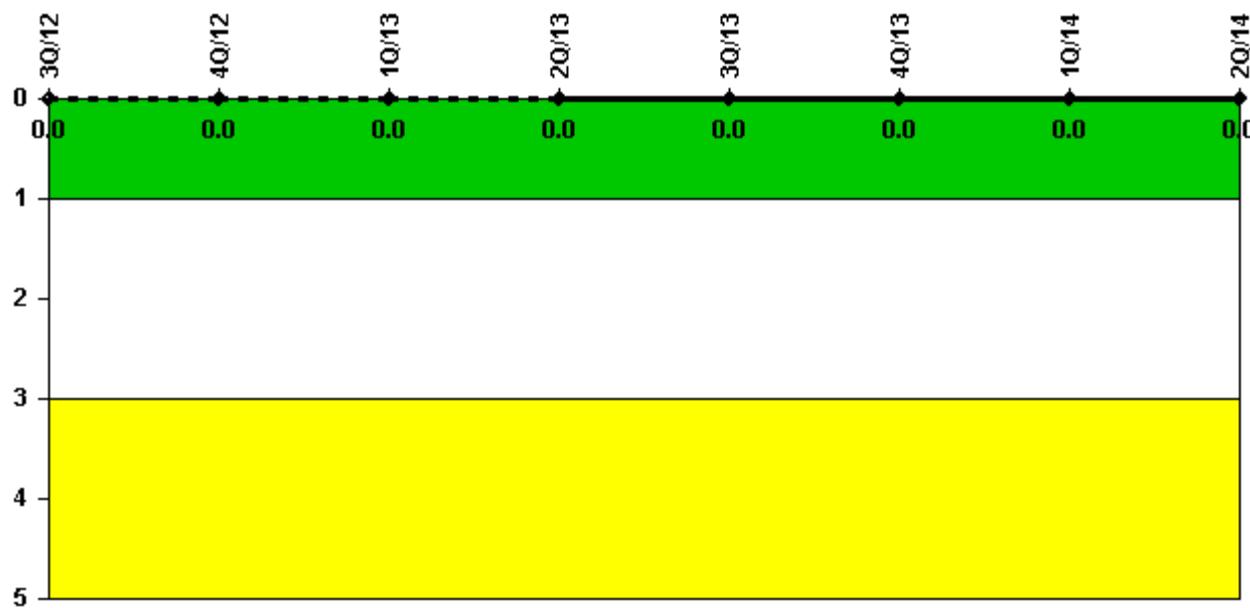
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

 [Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: July 31, 2014

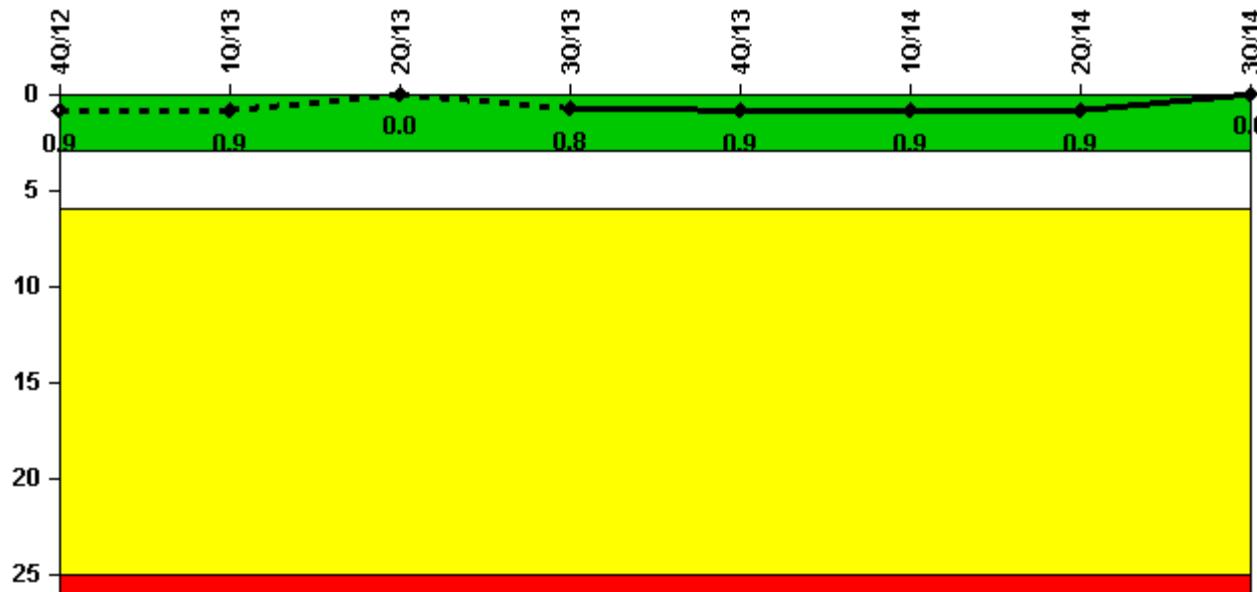
D.C. Cook 2

3Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

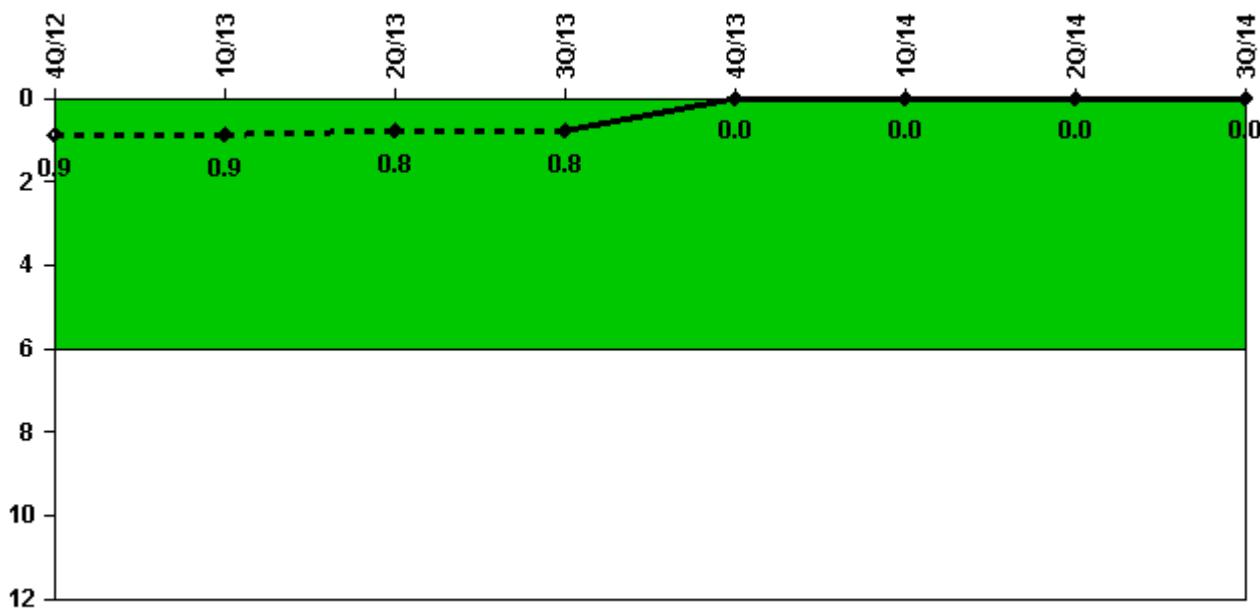
Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2209.0	2159.0	2184.0	2161.1	1238.6	2159.0	2184.0	2208.0
Indicator value	0.9	0.9	0	0.8	0.9	0.9	0.9	0

Licensee Comments:

3Q/13: A reactor trip due to a turbine generator trip occurred on 7/28/2013 at 1018 due to an incorrect controller setpoint on the Condensate Heater Bypass Control Valve. Subsequently, the reactor was taken critical on 7/30/2013 at 0914.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

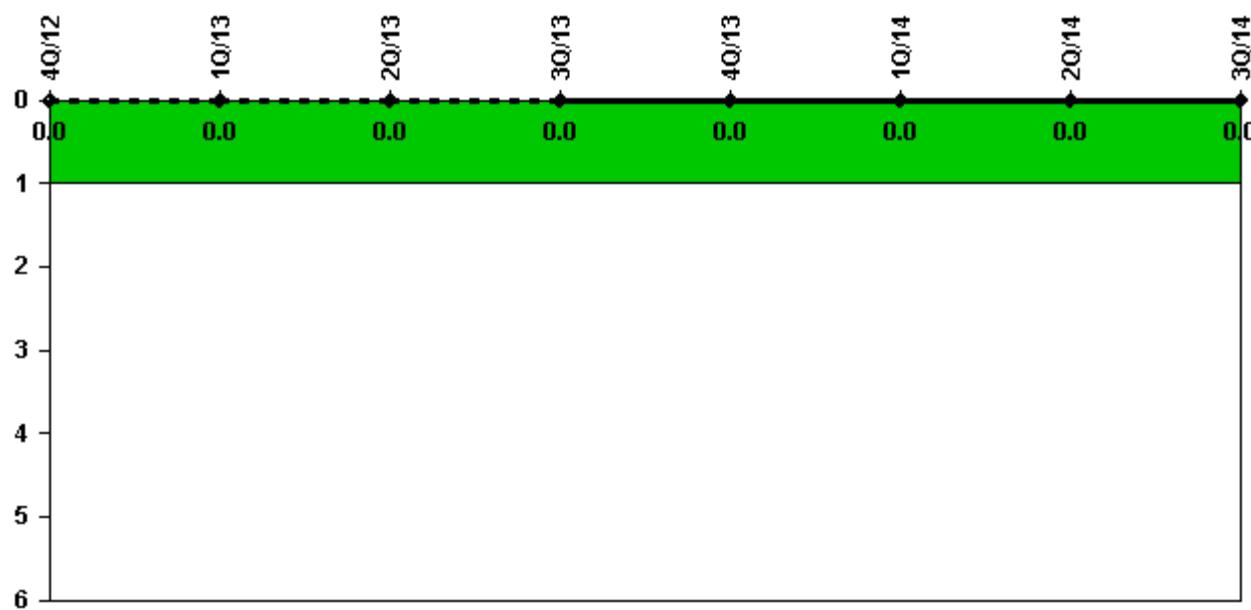
Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	2184.0	2161.1	1238.6	2159.0	2184.0	2208.0
Indicator value	0.9	0.9	0.8	0.8	0	0	0	0

Licensee Comments:

4Q/12: Downpower to 19% due to 2-BLP-130, Steam Generator Narrow Range Level Transmitter, leak on 11/28/12.

Unplanned Scrams with Complications



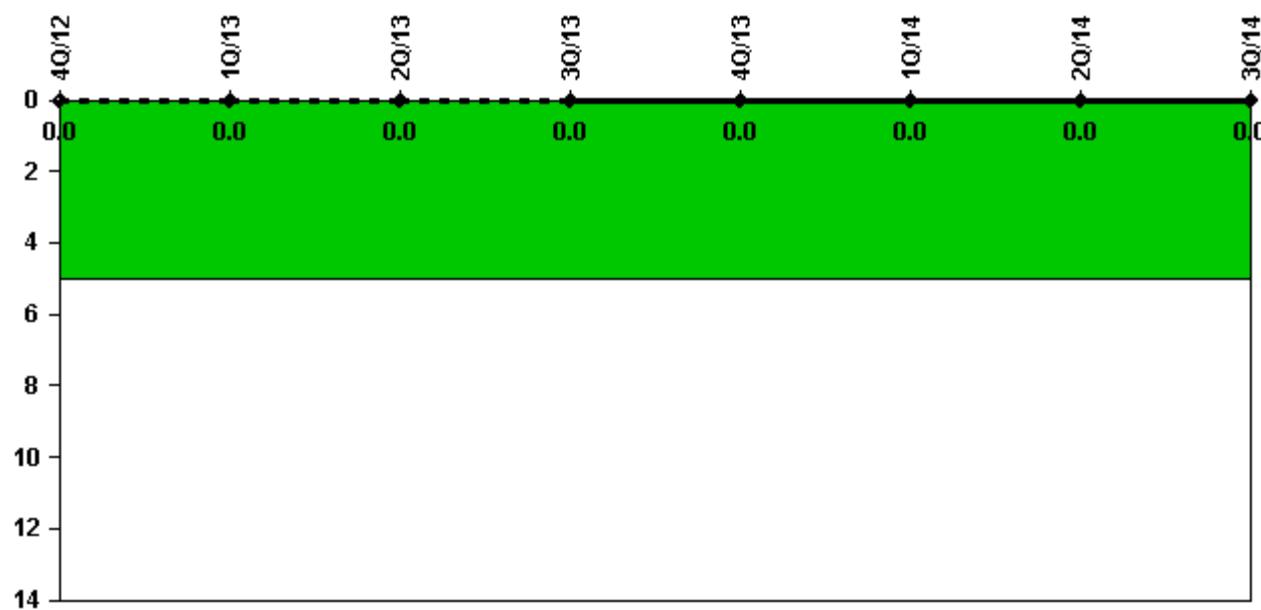
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0							

Licensee Comments: none

Safety System Functional Failures (PWR)



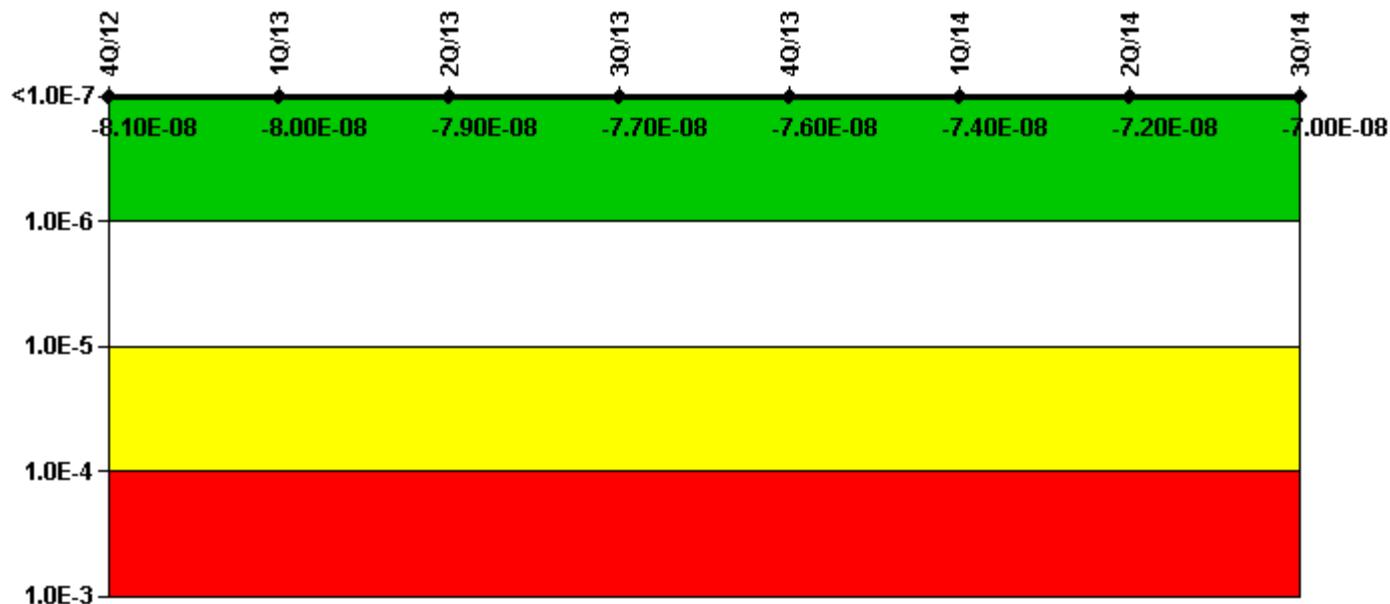
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	-6.18E-11	-4.62E-11	-4.69E-11	-2.43E-10	-2.54E-10	-2.69E-10	2.45E-10	3.29E-10
URI (Δ CDF)	-8.14E-08	-8.00E-08	-7.86E-08	-7.71E-08	-7.56E-08	-7.41E-08	-7.25E-08	-7.00E-08
PLE	NO							
Indicator value	-8.10E-08	-8.00E-08	-7.90E-08	-7.70E-08	-7.60E-08	-7.40E-08	-7.20E-08	-7.00E-08

Licensee Comments:

1Q/14: Revised MSPI Basis Document to update Emergency Diesel Generator Load Run Test Demand estimates.

4Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

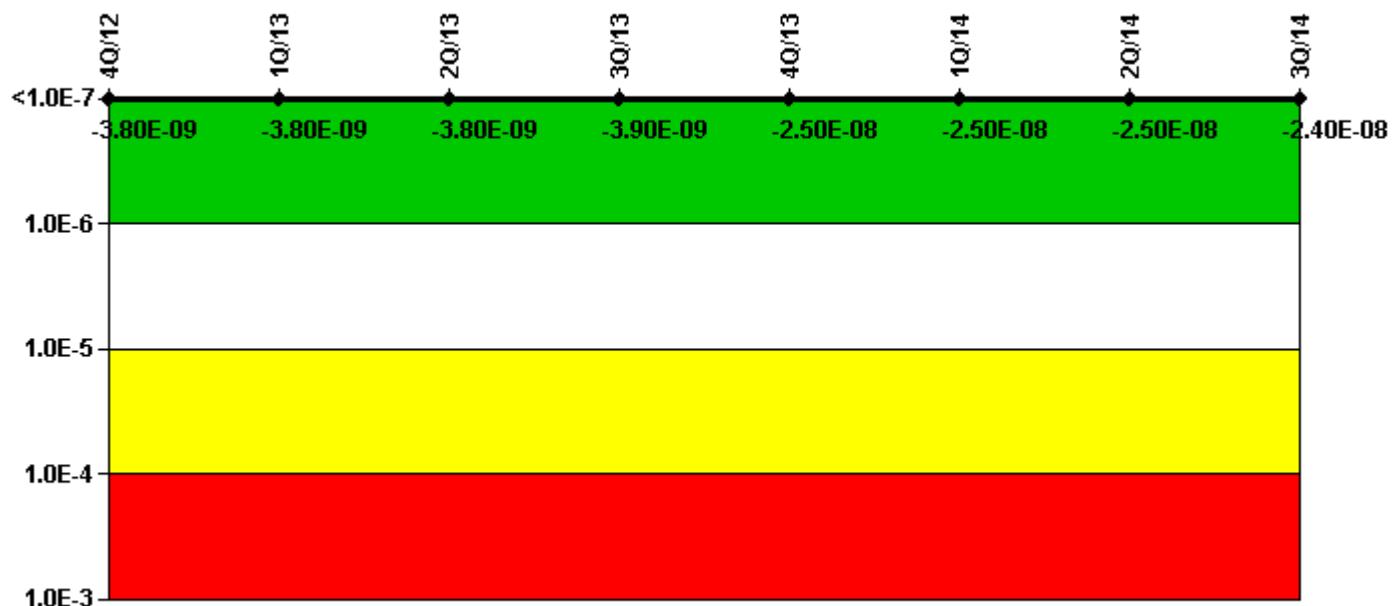
3Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

2Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

1Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

4Q/12: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	-2.49E-11	-2.44E-11	-2.44E-11	-2.66E-11	-2.66E-11	-2.66E-11	-2.66E-11	-2.12E-11
URI (Δ CDF)	-3.82E-09	-3.82E-09	-3.82E-09	-3.82E-09	-2.54E-08	-2.54E-08	-2.54E-08	-2.39E-08
PLE	NO							
Indicator value	-3.80E-09	-3.80E-09	-3.80E-09	-3.90E-09	-2.50E-08	-2.50E-08	-2.50E-08	-2.40E-08

Licensee Comments:

2Q/14: The High Pressure Injection System MS07 data has been corrected to include an additional 16.62 hours

of unavailability for Unit 2 A East CCP Train that were not reported in the 2Q14 submittal. This data change did not result in a change to the indicator color.

3Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

2Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

2Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

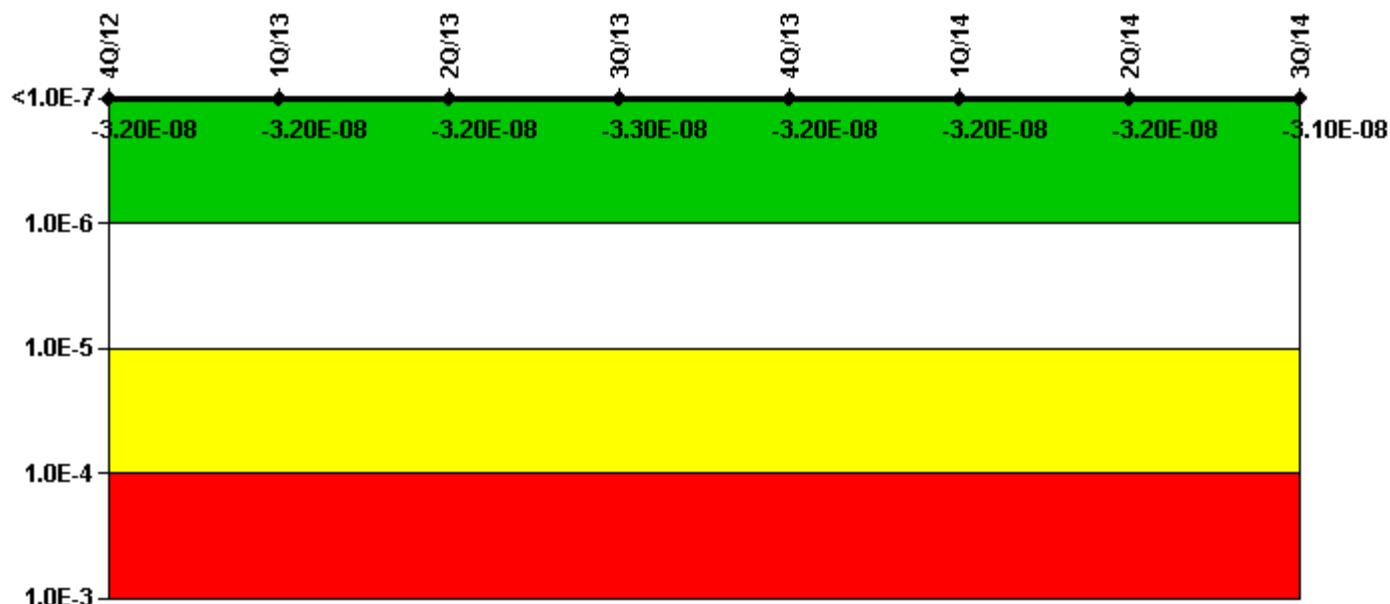
1Q/13: The High Pressure Injection System MS07 data has been corrected to include additional unavailability hours that were not reported in the 1Q13 submittal. An additional 2.07 hours of unavailability in February 2013 were counted for Unit 2 A North SI Train and B West CCP Train. These changes did not result in a change in indicator color.

1Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

4Q/12: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

4Q/12: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

Mitigating Systems Performance Index, Heat Removal System



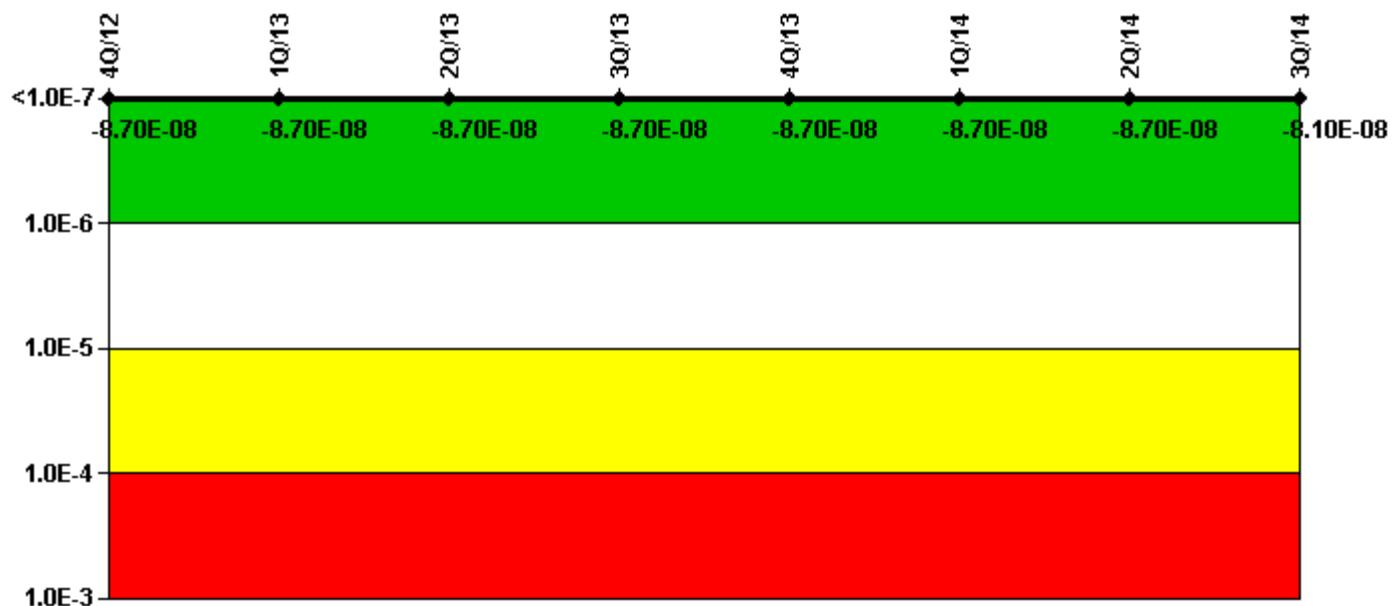
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	-7.22E-12	-9.86E-12	-9.86E-12	-1.28E-11	-1.34E-11	-1.34E-11	8.06E-12	1.64E-11
URI (Δ CDF)	-3.20E-08	-3.20E-08	-3.20E-08	-3.30E-08	-3.23E-08	-3.23E-08	-3.23E-08	-3.15E-08
PLE	NO							
Indicator value	-3.20E-08	-3.20E-08	-3.20E-08	-3.30E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



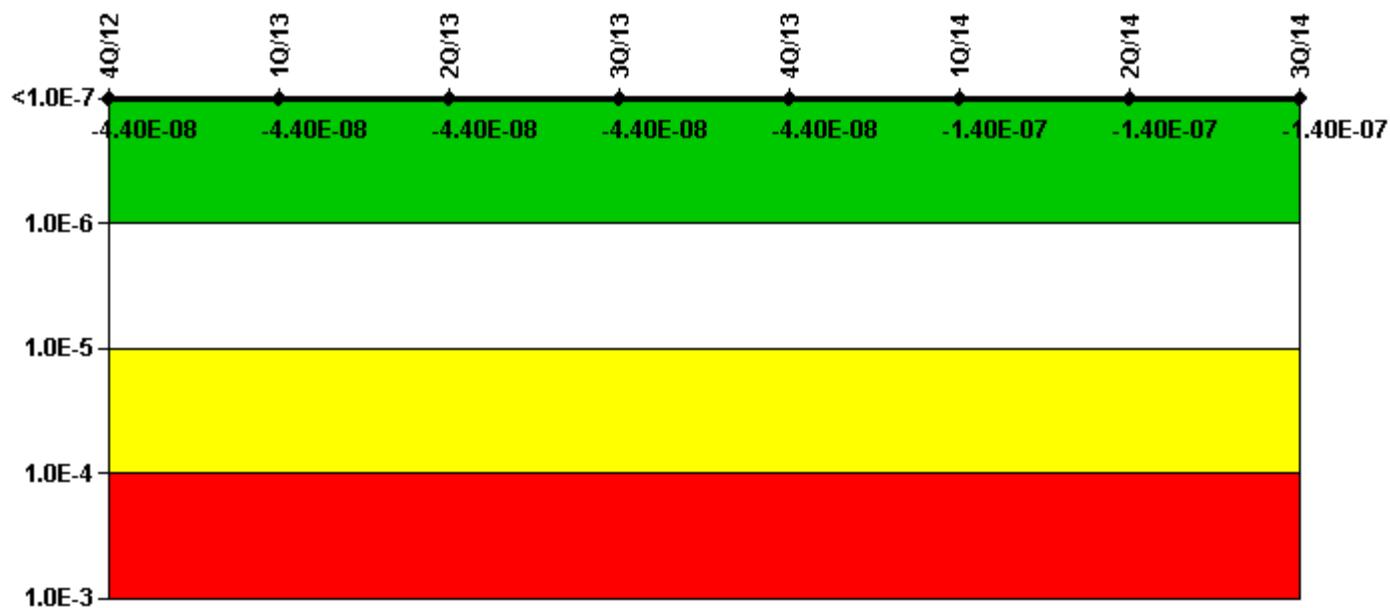
Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	-2.07E-13	-2.07E-13	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13	-2.16E-13	7.55E-13
URI (Δ CDF)	-8.69E-08	-8.12E-08						
PLE	NO							
Indicator value	-8.70E-08	-8.10E-08						

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



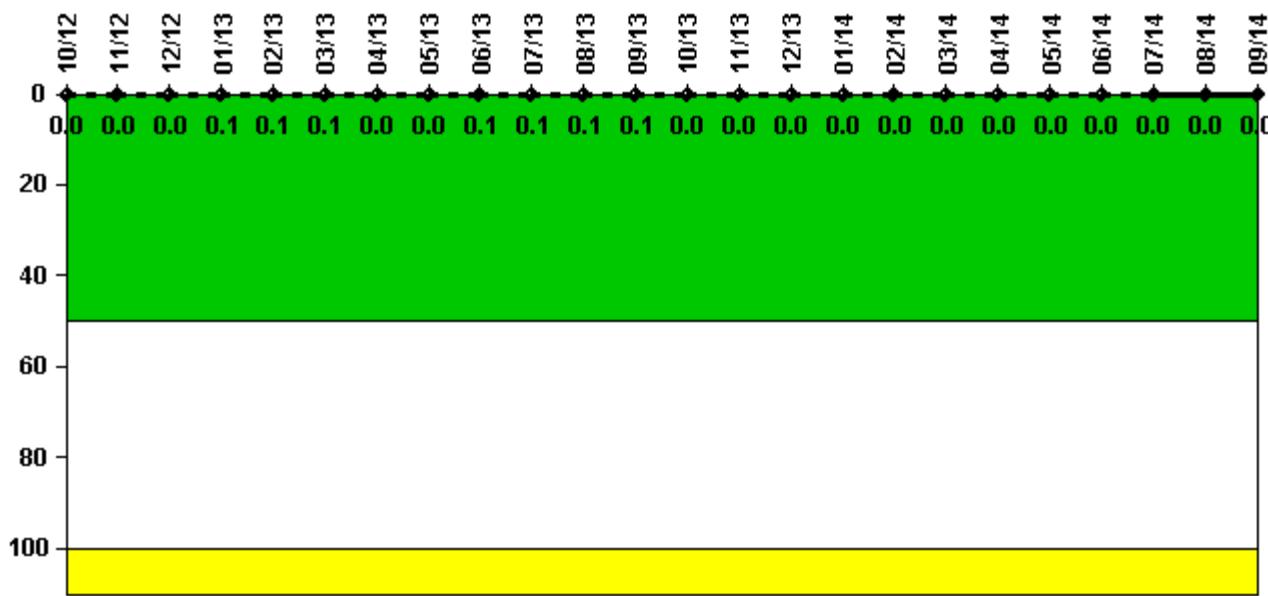
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	6.99E-11	-2.61E-12	-2.61E-12	-2.33E-12	1.17E-12	-3.82E-11	-3.82E-11	-3.78E-11
URI (Δ CDF)	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08	-1.40E-07	-1.40E-07	-1.39E-07
PLE	NO							
Indicator value	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-1.40E-07	-1.40E-07	-1.40E-07

Licensee Comments: none

Reactor Coolant System Activity



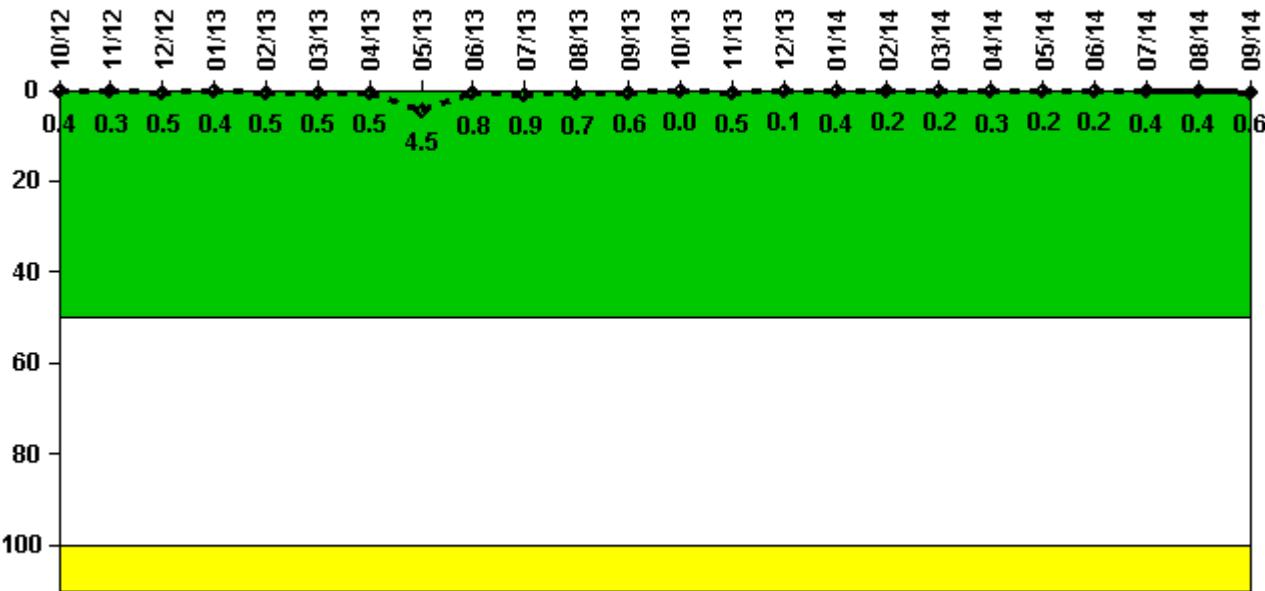
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum activity	0.000123	0.000160	0.000130	0.000213	0.000190	0.000176	0.000162	0.000168	0.000175	0.000183	0.000191	0.000382
Technical specification limit	1.0	1.0	1.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0	0.1	0.1	0.1	0	0	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum activity	0.000164	0.000068	0.000090	0.000095	0.000099	0.000102	0.000115	0.000111	0.000114	0.000121	0.000125	0.000127
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



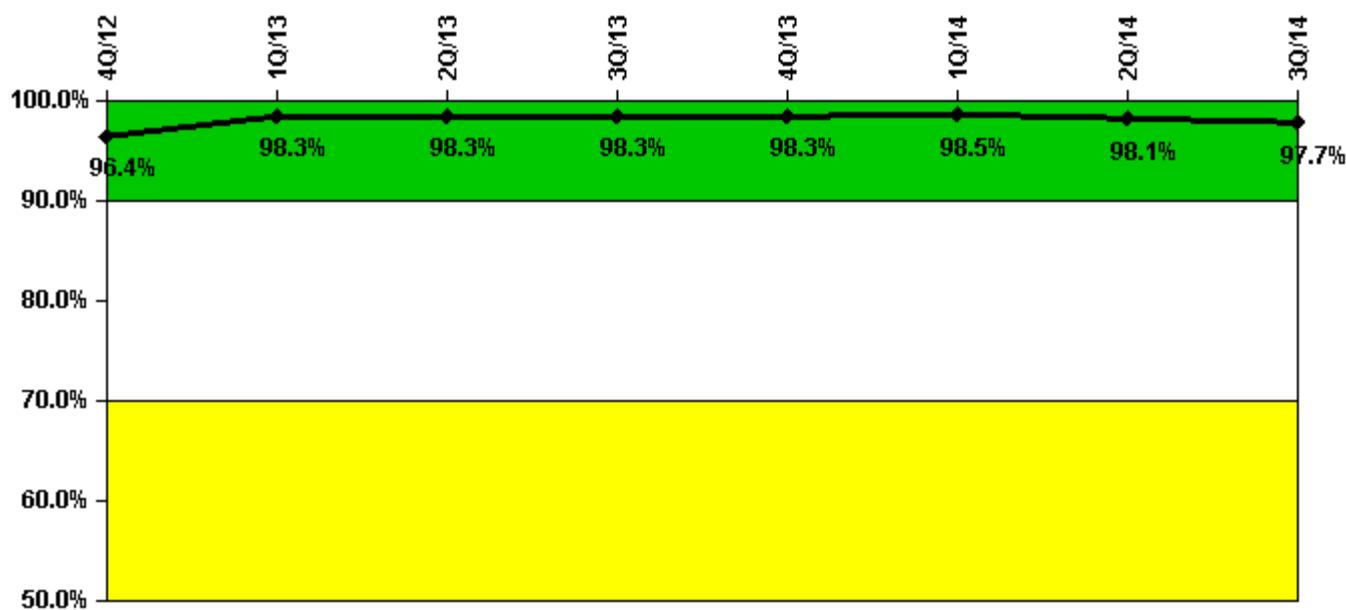
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum leakage	0.040	0.034	0.057	0.039	0.054	0.056	0.050	0.490	0.085	0.096	0.073	0.067
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.4	0.3	0.5	0.4	0.5	0.5	0.5	4.5	0.8	0.9	0.7	0.6
Reactor Coolant System Leakage	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum leakage	0	0.052	0.010	0.045	0.026	0.024	0.028	0.023	0.024	0.039	0.048	0.071
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0	0.5	0.1	0.4	0.2	0.2	0.3	0.2	0.2	0.4	0.4	0.6

Licensee Comments: none

Drill/Exercise Performance



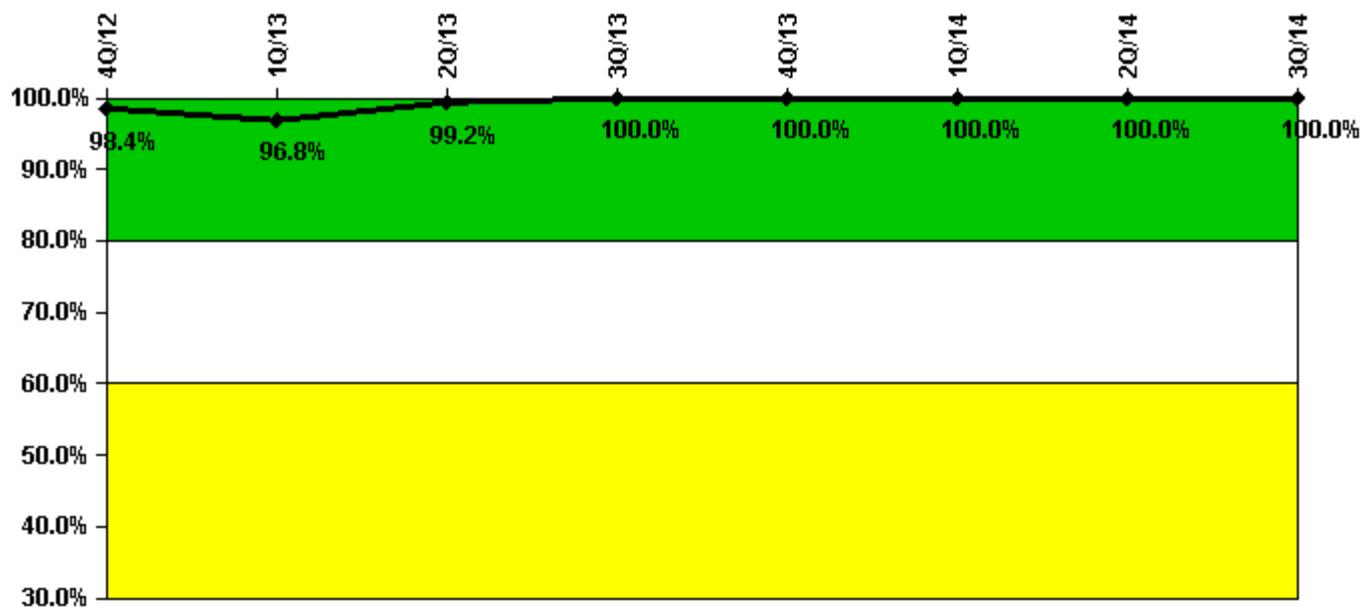
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful opportunities	66.0	68.0	20.0	44.0	0	55.0	23.0	59.0
Total opportunities	67.0	70.0	20.0	44.0	0	56.0	25.0	61.0
Indicator value	96.4%	98.3%	98.3%	98.3%	98.3%	98.5%	98.1%	97.7%

Licensee Comments: none

ERO Drill Participation



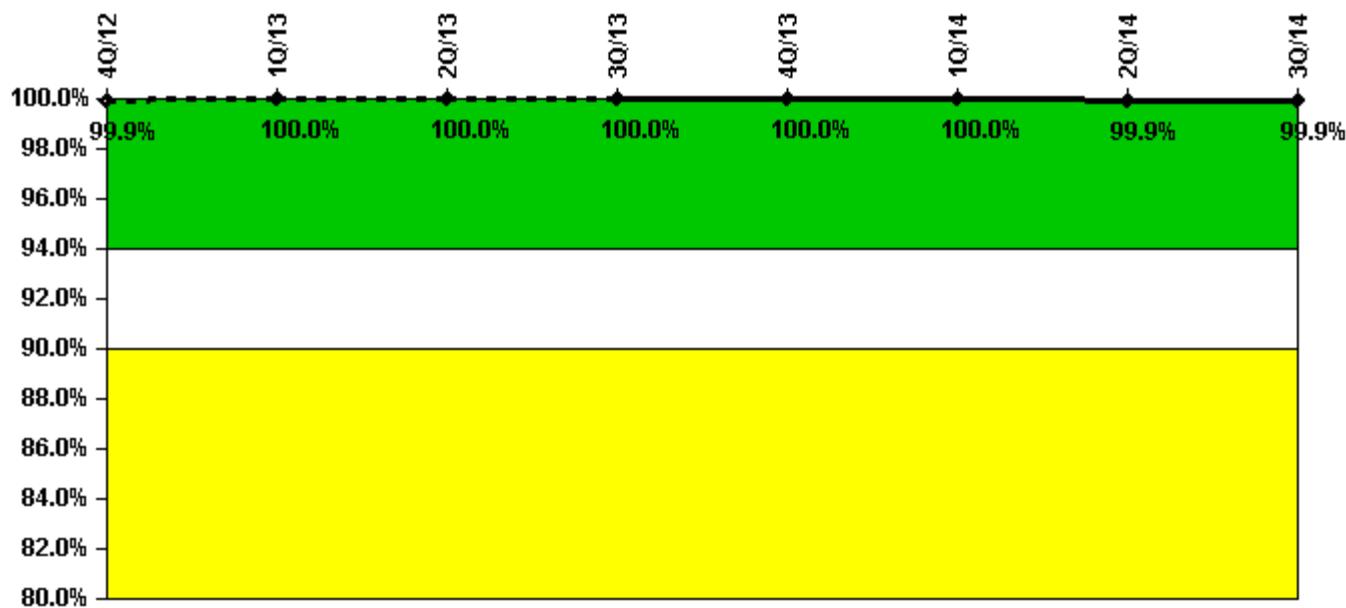
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Participating Key personnel	126.0	120.0	121.0	118.0	118.0	120.0	118.0	123.0
Total Key personnel	128.0	124.0	122.0	118.0	118.0	120.0	118.0	123.0
Indicator value	98.4%	96.8%	99.2%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



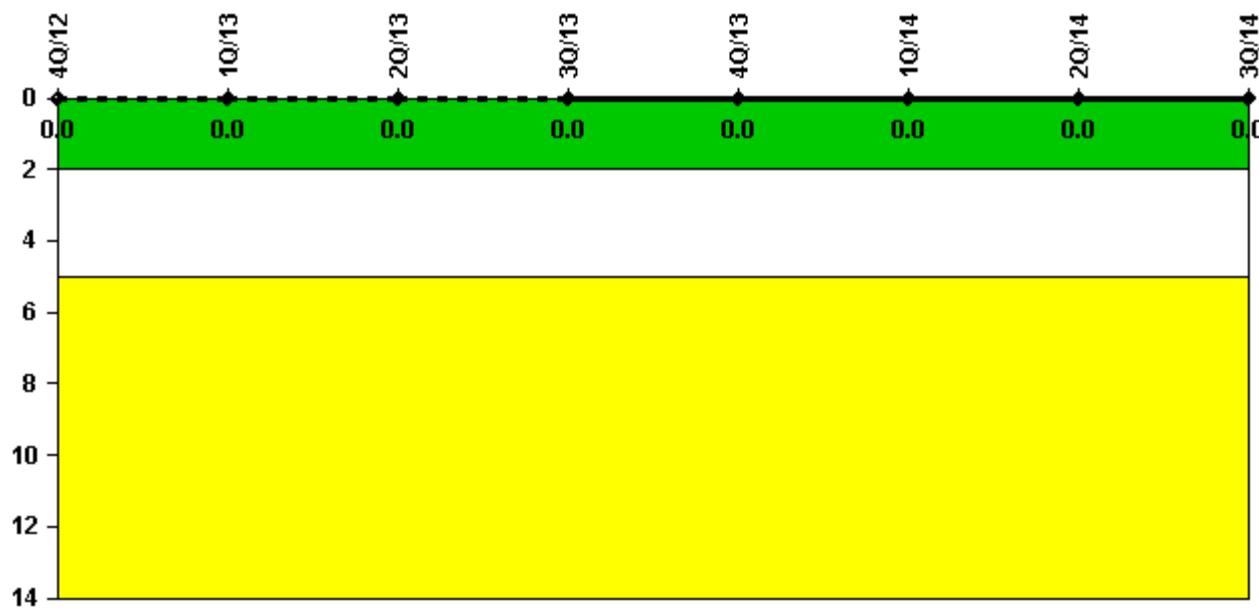
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful siren-tests	1120	1120	1119	1120	1120	1119	1116	1119
Total sirens-tests	1120	1120	1119	1120	1120	1120	1119	1120
Indicator value	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



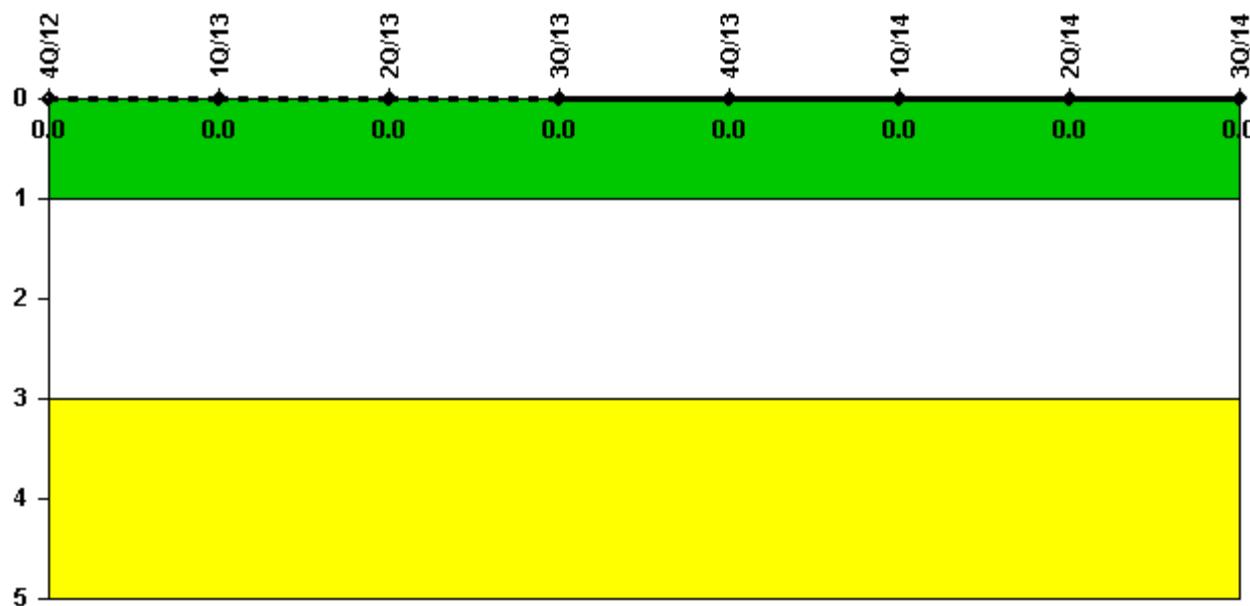
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

 [Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: November 3, 2014

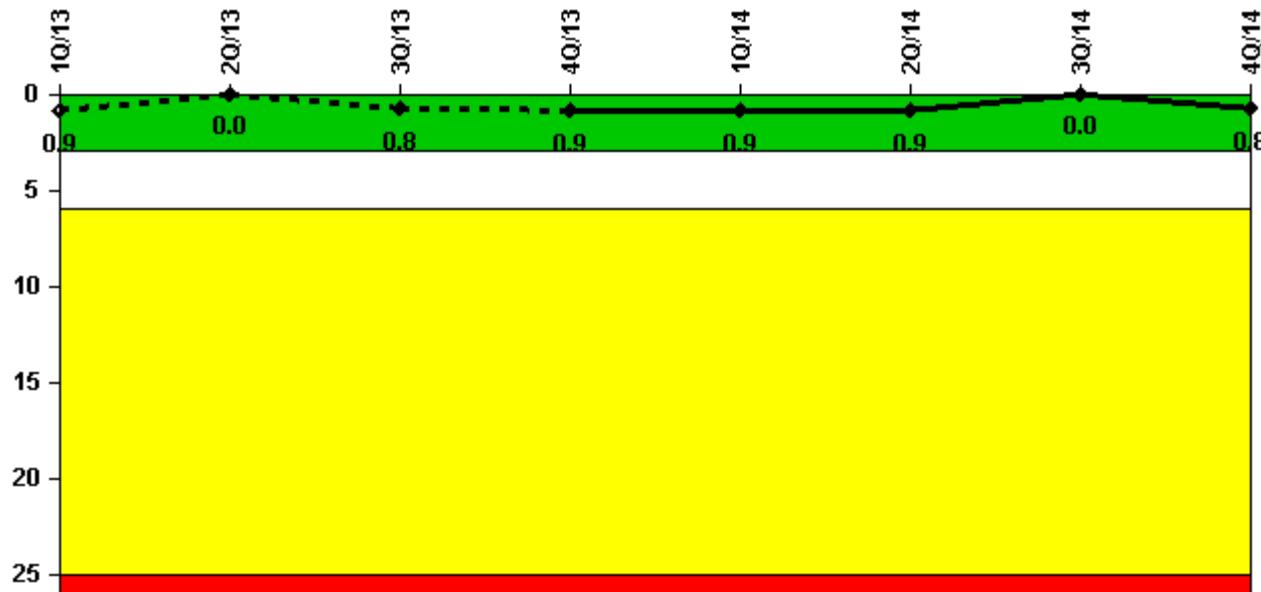
D.C. Cook 2

4Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

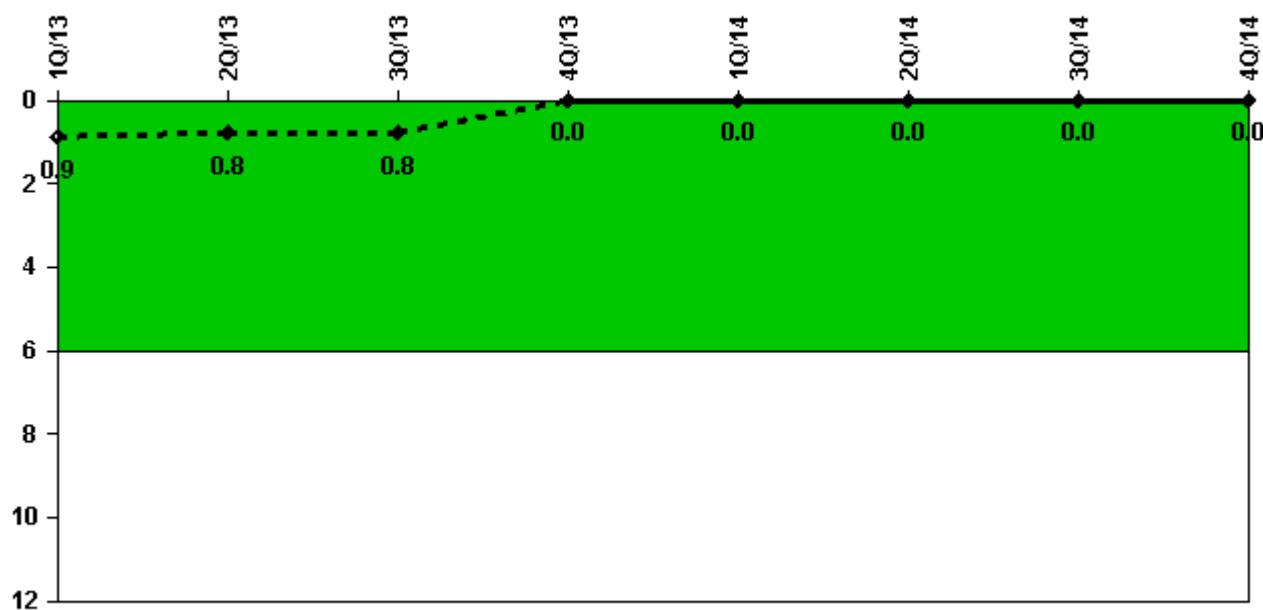
Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned scrams	0	0	1.0	0	0	0	0	1.0
Critical hours	2159.0	2184.0	2161.1	1238.6	2159.0	2184.0	2208.0	1975.7
Indicator value	0.9	0	0.8	0.9	0.9	0.9	0	0.8

Licensee Comments:

3Q/13: A reactor trip due to a turbine generator trip occurred on 7/28/2013 at 1018 due to an incorrect controller setpoint on the Condensate Heater Bypass Control Valve. Subsequently, the reactor was taken critical on 7/30/2013 at 0914.

Unplanned Power Changes per 7000 Critical Hrs



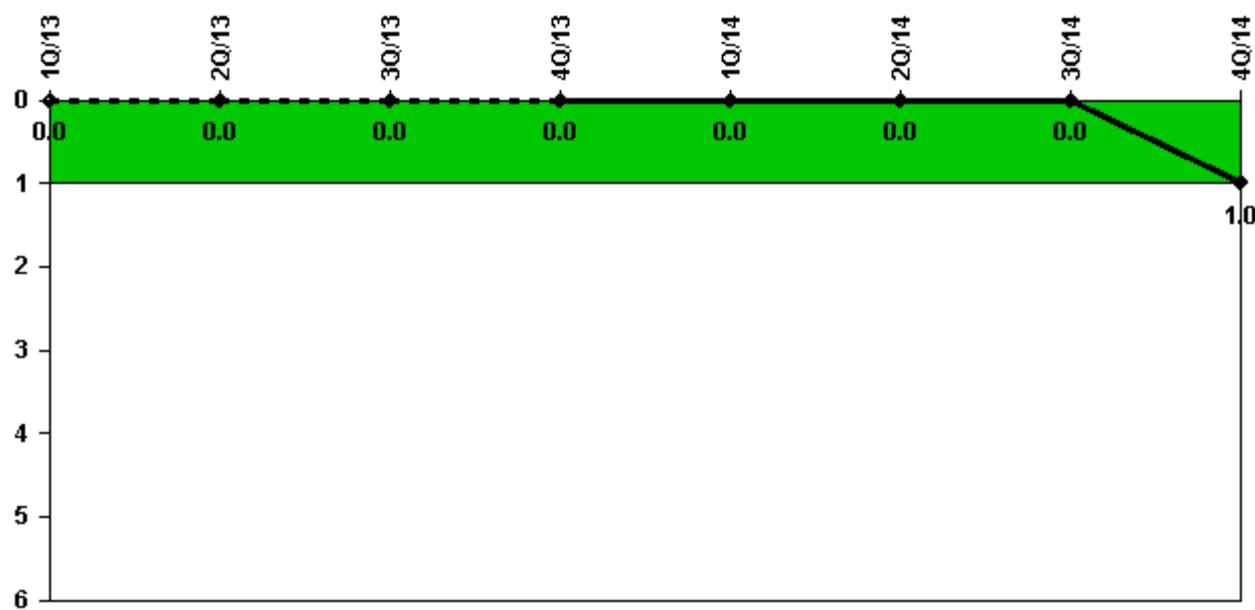
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2161.1	1238.6	2159.0	2184.0	2208.0	1975.7
Indicator value	0.9	0.8	0.8	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



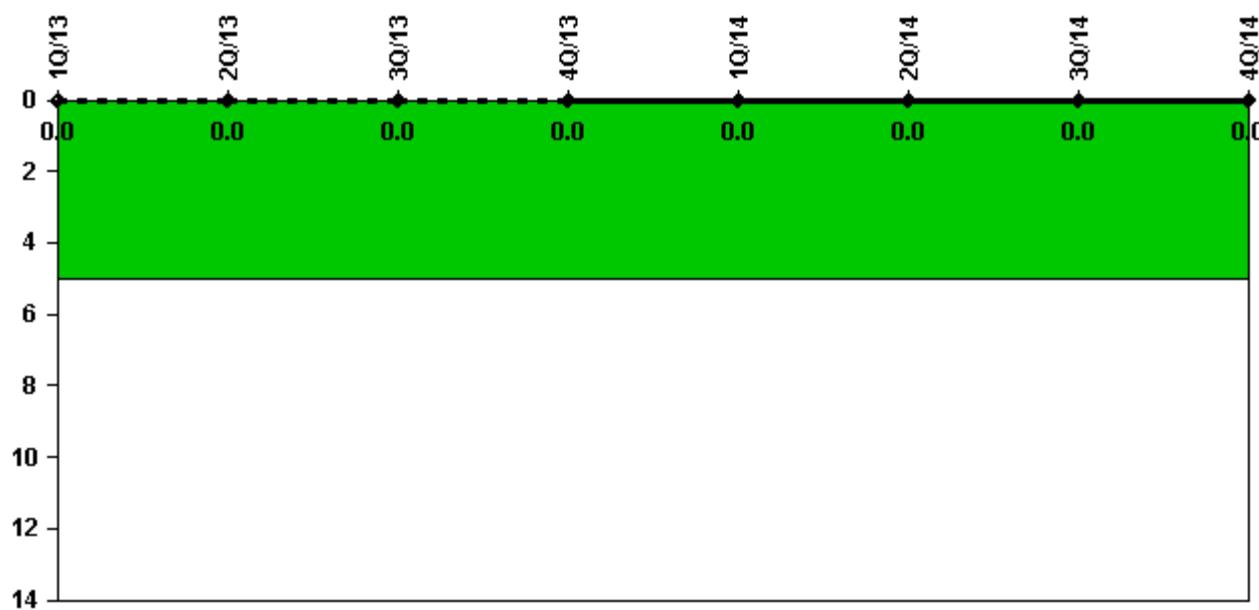
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Scrams with complications	0	0	0	0	0	0	0	1.0
Indicator value	0.0	1.0						

Licensee Comments: none

Safety System Functional Failures (PWR)



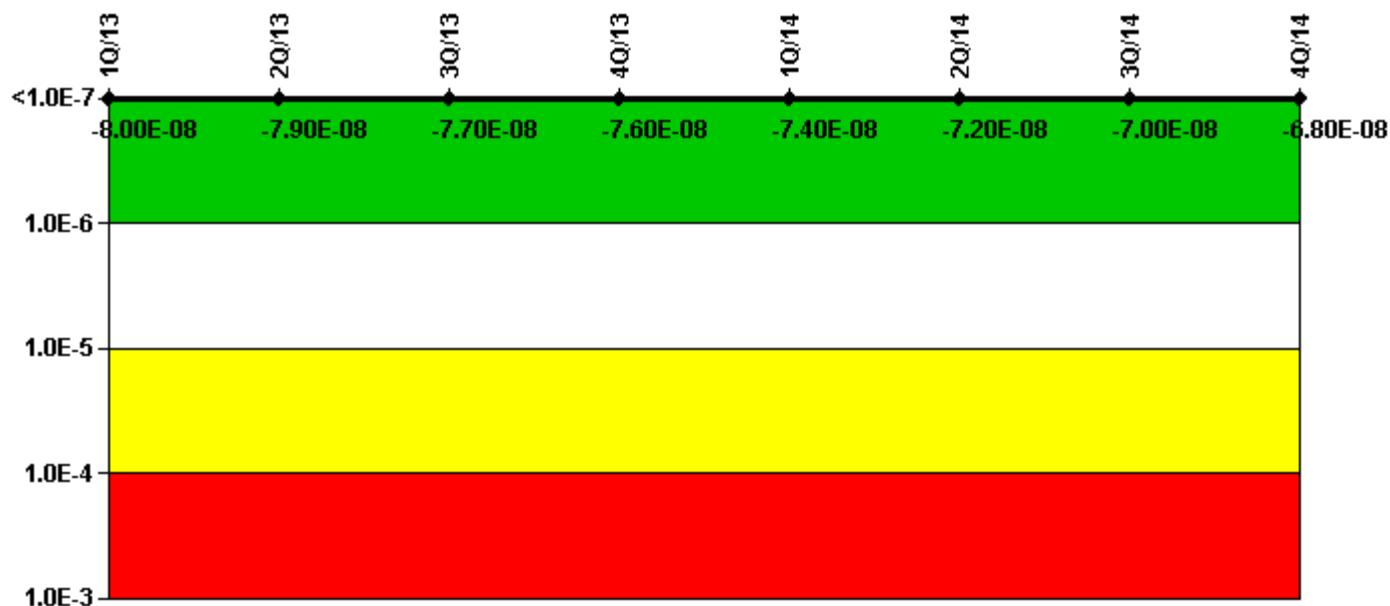
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	-4.62E-11	-4.69E-11	-2.43E-10	-2.54E-10	-2.69E-10	2.45E-10	3.29E-10	4.27E-10
URI (Δ CDF)	-8.00E-08	-7.86E-08	-7.71E-08	-7.56E-08	-7.41E-08	-7.25E-08	-7.00E-08	-6.83E-08
PLE	NO							
Indicator value	-8.00E-08	-7.90E-08	-7.70E-08	-7.60E-08	-7.40E-08	-7.20E-08	-7.00E-08	-6.80E-08

Licensee Comments:

1Q/14: Revised MSPI Basis Document to update Emergency Diesel Generator Load Run Test Demand estimates.

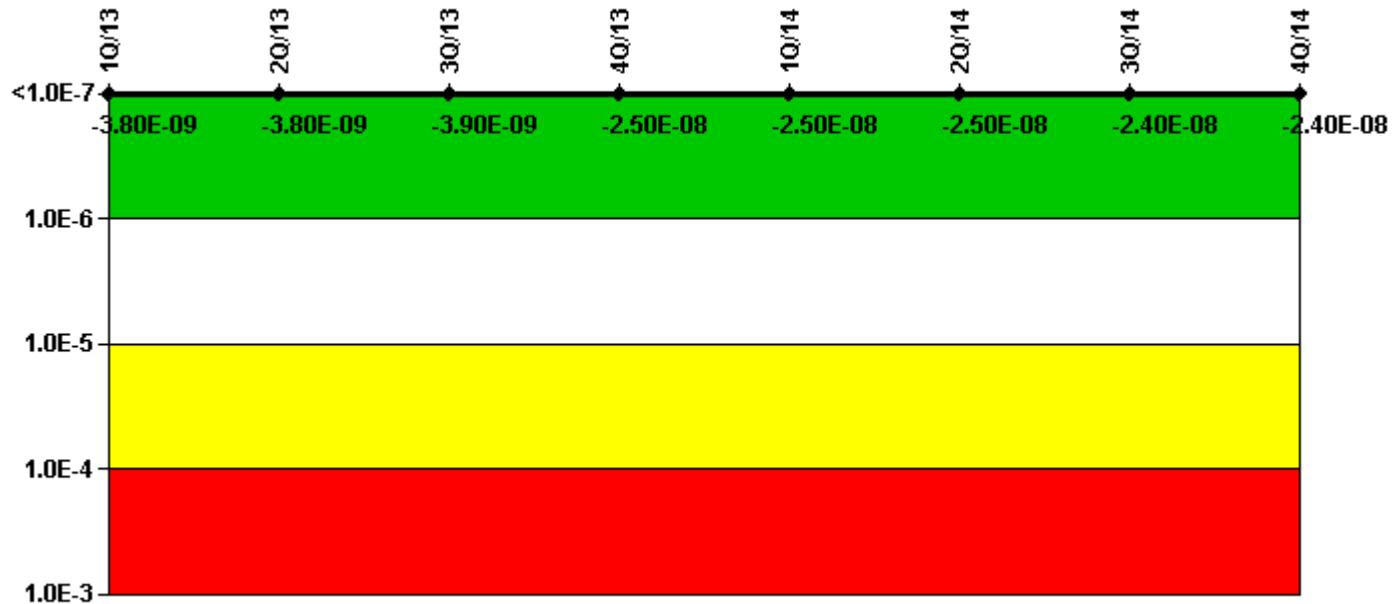
4Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

3Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

2Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

1Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	-2.44E-11	-2.44E-11	-2.66E-11	-2.66E-11	-2.66E-11	-2.66E-11	-2.12E-11	-2.11E-11
URI (Δ CDF)	-3.82E-09	-3.82E-09	-3.82E-09	-2.54E-08	-2.54E-08	-2.54E-08	-2.39E-08	-2.39E-08
PLE	NO							
Indicator value	-3.80E-09	-3.80E-09	-3.90E-09	-2.50E-08	-2.50E-08	-2.50E-08	-2.40E-08	-2.40E-08

Licensee Comments:

2Q/14: The High Pressure Injection System MS07 data has been corrected to include an additional 16.62 hours of unavailability for Unit 2 A East CCP Train that were not reported in the 2Q14 submittal. This data change did not result in a change to the indicator color.

3Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove

two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

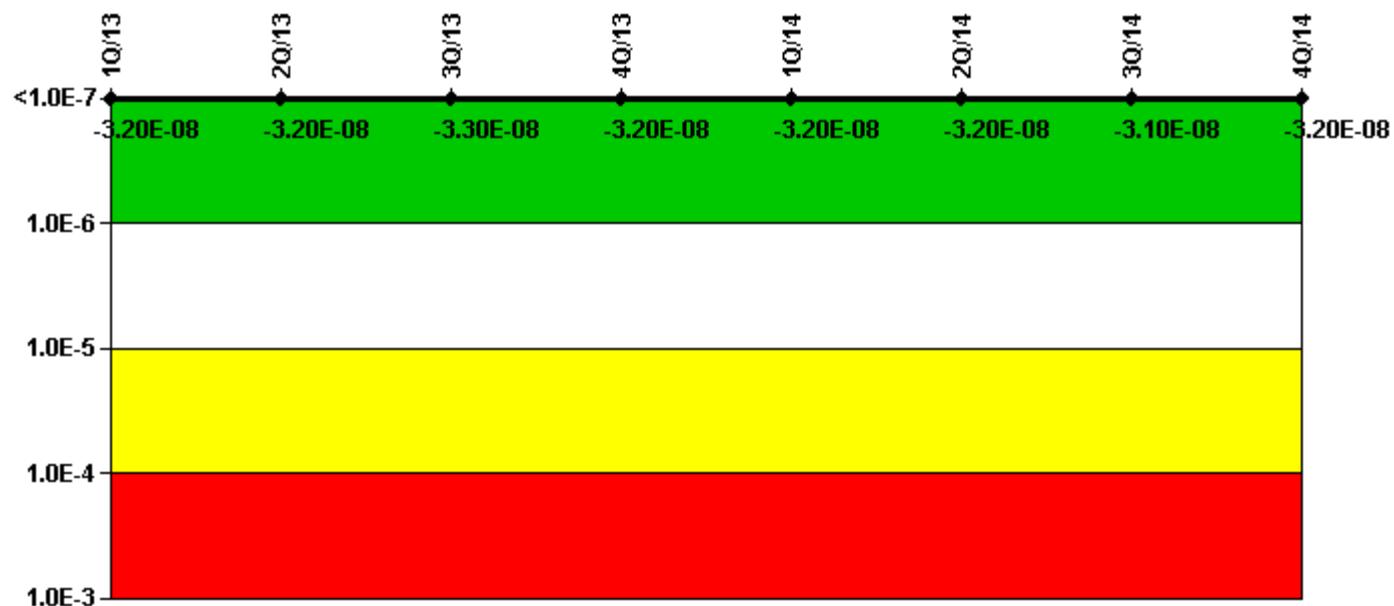
2Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

2Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

1Q/13: The High Pressure Injection System MS07 data has been corrected to include additional unavailability hours that were not reported in the 1Q13 submittal. An additional 2.07 hours of unavailability in February 2013 were counted for Unit 2 A North SI Train and B West CCP Train. These changes did not result in a change in indicator color.

1Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

Mitigating Systems Performance Index, Heat Removal System



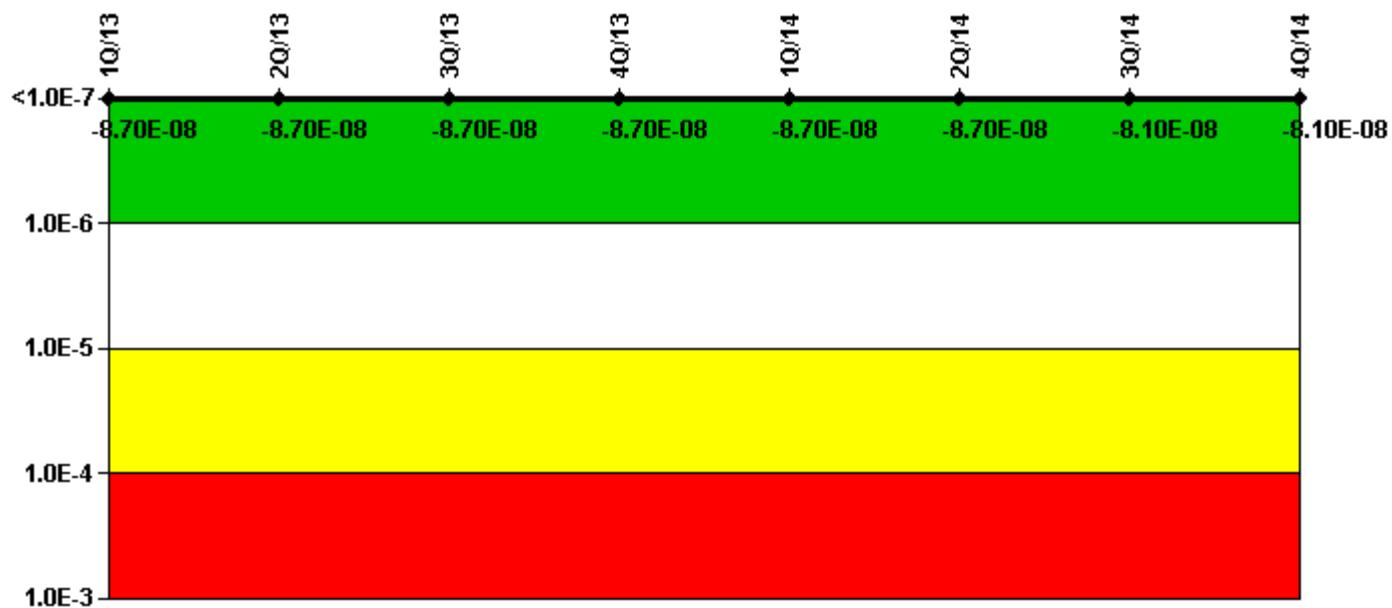
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	-9.86E-12	-9.86E-12	-1.28E-11	-1.34E-11	-1.34E-11	8.06E-12	1.64E-11	1.79E-11
URI (Δ CDF)	-3.20E-08	-3.20E-08	-3.30E-08	-3.23E-08	-3.23E-08	-3.23E-08	-3.15E-08	-3.23E-08
PLE	NO							
Indicator value	-3.20E-08	-3.20E-08	-3.30E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.10E-08	-3.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



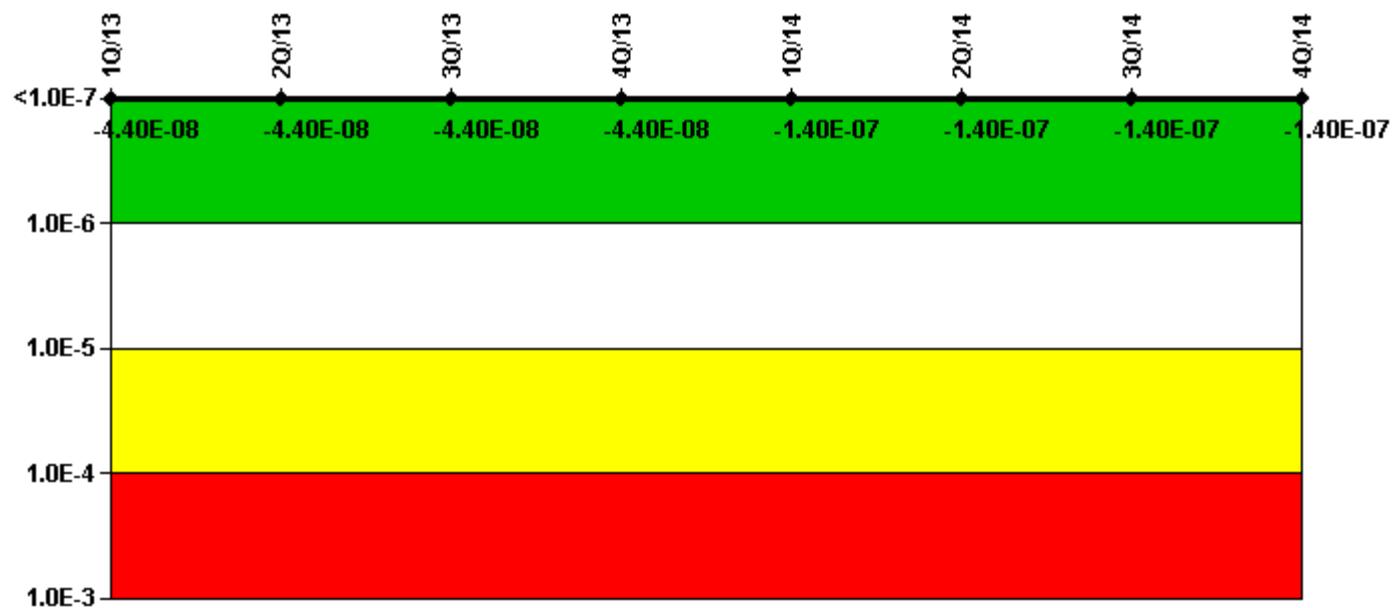
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	-2.07E-13	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13	-2.16E-13	7.55E-13	7.84E-13
URI (Δ CDF)	-8.69E-08	-8.69E-08	-8.69E-08	-8.69E-08	-8.69E-08	-8.69E-08	-8.12E-08	-8.12E-08
PLE	NO							
Indicator value	-8.70E-08	-8.70E-08	-8.70E-08	-8.70E-08	-8.70E-08	-8.70E-08	-8.10E-08	-8.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



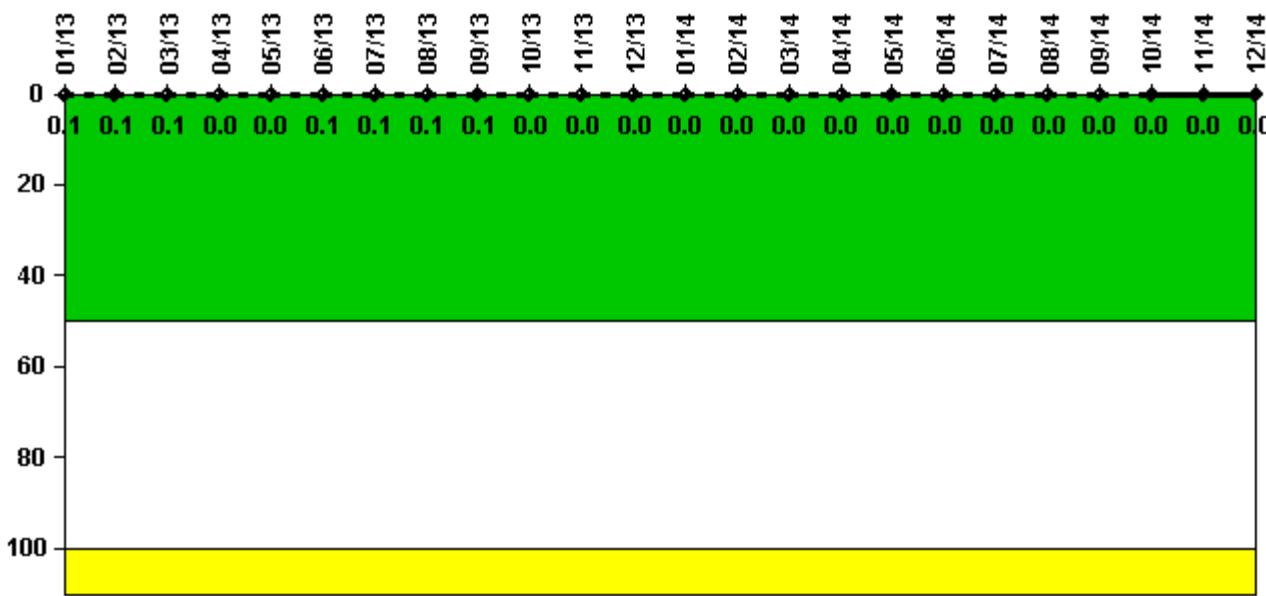
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	-2.61E-12	-2.61E-12	-2.33E-12	1.17E-12	-3.82E-11	-3.82E-11	-3.78E-11	-3.46E-11
URI (Δ CDF)	-4.36E-08	-4.36E-08	-4.36E-08	-4.36E-08	-1.40E-07	-1.40E-07	-1.39E-07	-1.39E-07
PLE	NO							
Indicator value	-4.40E-08	-4.40E-08	-4.40E-08	-4.40E-08	-1.40E-07	-1.40E-07	-1.40E-07	-1.40E-07

Licensee Comments: none

Reactor Coolant System Activity



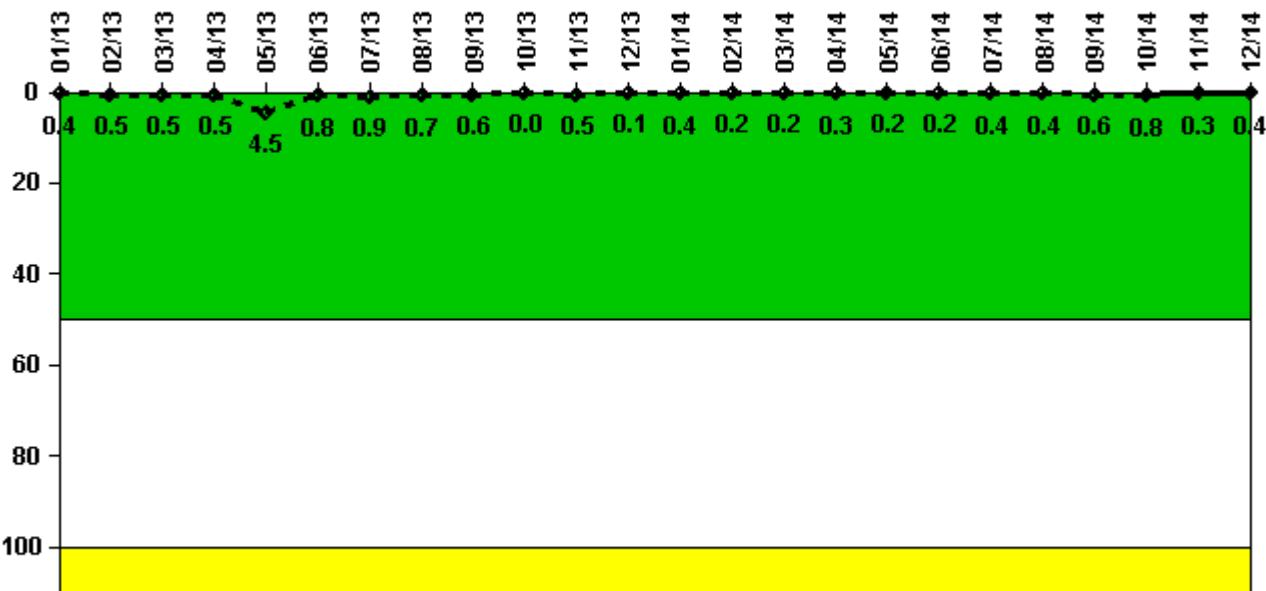
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum activity	0.000213	0.000190	0.000176	0.000162	0.000168	0.000175	0.000183	0.000191	0.000382	0.000164	0.000068	0.000090
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0.1	0.1	0.1	0	0	0.1	0.1	0.1	0.1	0	0	0
Reactor Coolant System Activity	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum activity	0.000095	0.000099	0.000102	0.000115	0.000111	0.000114	0.000121	0.000125	0.000127	0.000131	0.000137	0.000162
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



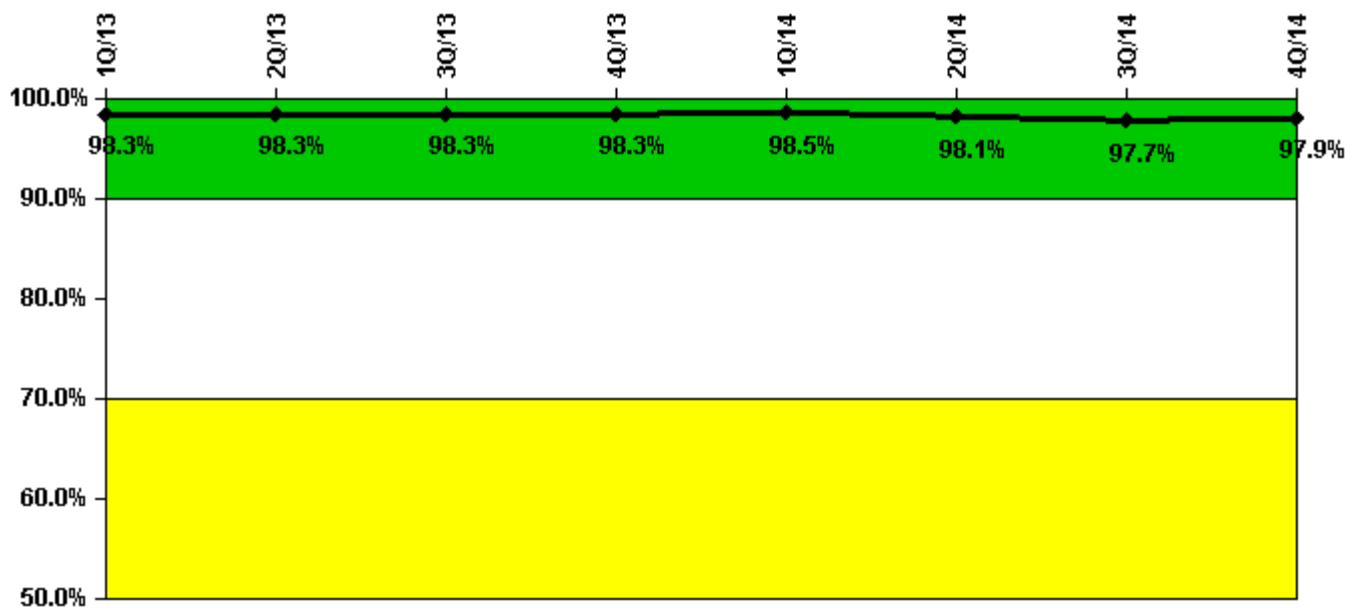
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum leakage	0.039	0.054	0.056	0.050	0.490	0.085	0.096	0.073	0.067	0	0.052	0.010
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.4	0.5	0.5	0.5	4.5	0.8	0.9	0.7	0.6	0	0.5	0.1
Reactor Coolant System Leakage	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum leakage	0.045	0.026	0.024	0.028	0.023	0.024	0.039	0.048	0.071	0.084	0.028	0.041
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.4	0.2	0.2	0.3	0.2	0.2	0.4	0.4	0.6	0.8	0.3	0.4

Licensee Comments: none

Drill/Exercise Performance



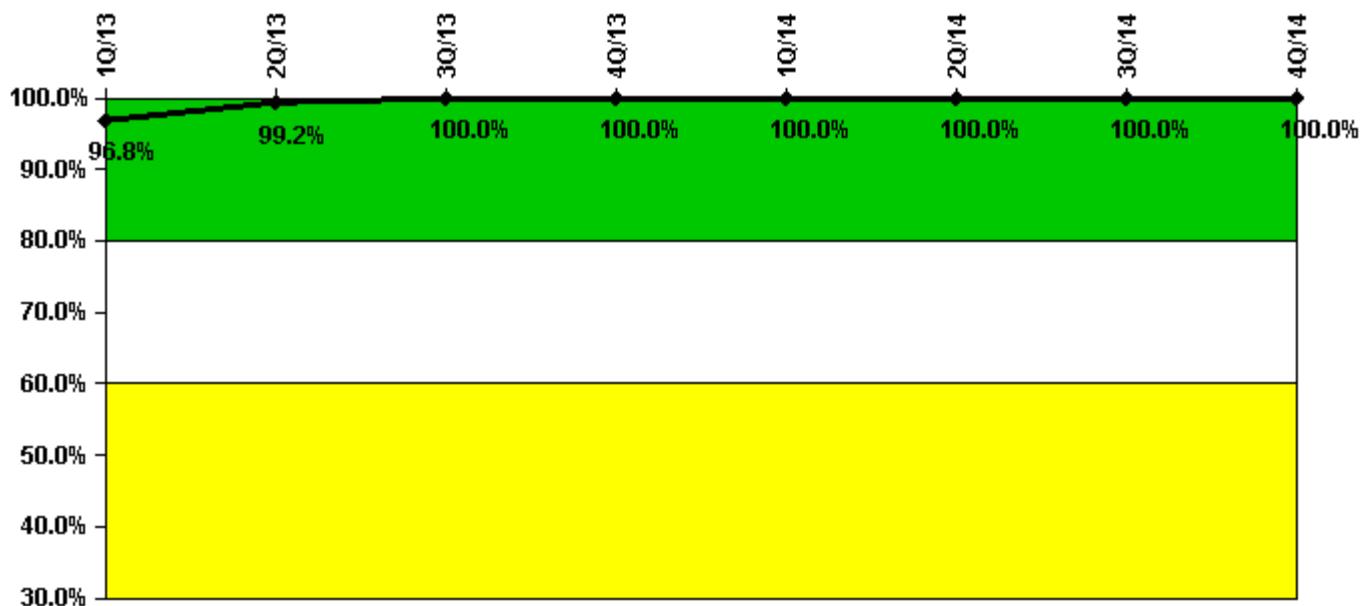
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful opportunities	68.0	20.0	44.0	0	55.0	23.0	59.0	56.0
Total opportunities	70.0	20.0	44.0	0	56.0	25.0	61.0	56.0
Indicator value	98.3%	98.3%	98.3%	98.3%	98.5%	98.1%	97.7%	97.9%

Licensee Comments: none

ERO Drill Participation



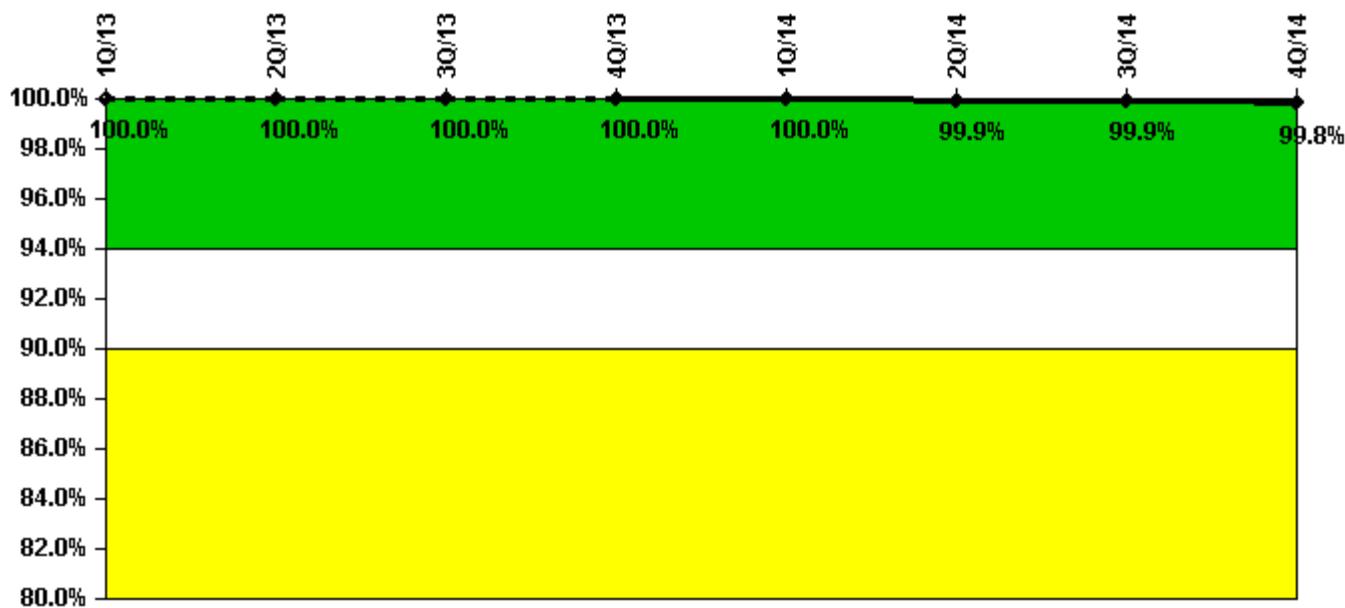
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Participating Key personnel	120.0	121.0	118.0	118.0	120.0	118.0	123.0	128.0
Total Key personnel	124.0	122.0	118.0	118.0	120.0	118.0	123.0	128.0
Indicator value	96.8%	99.2%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



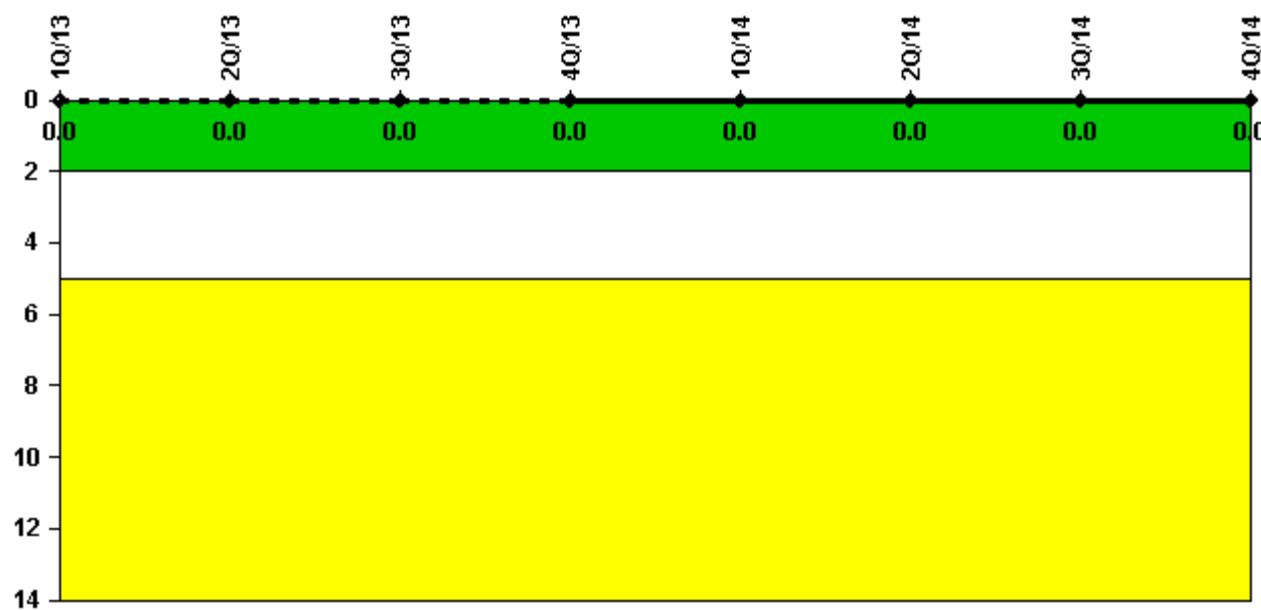
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful siren-tests	1120	1119	1120	1120	1119	1116	1119	1187
Total sirens-tests	1120	1119	1120	1120	1120	1119	1120	1190
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	99.9%	99.9%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



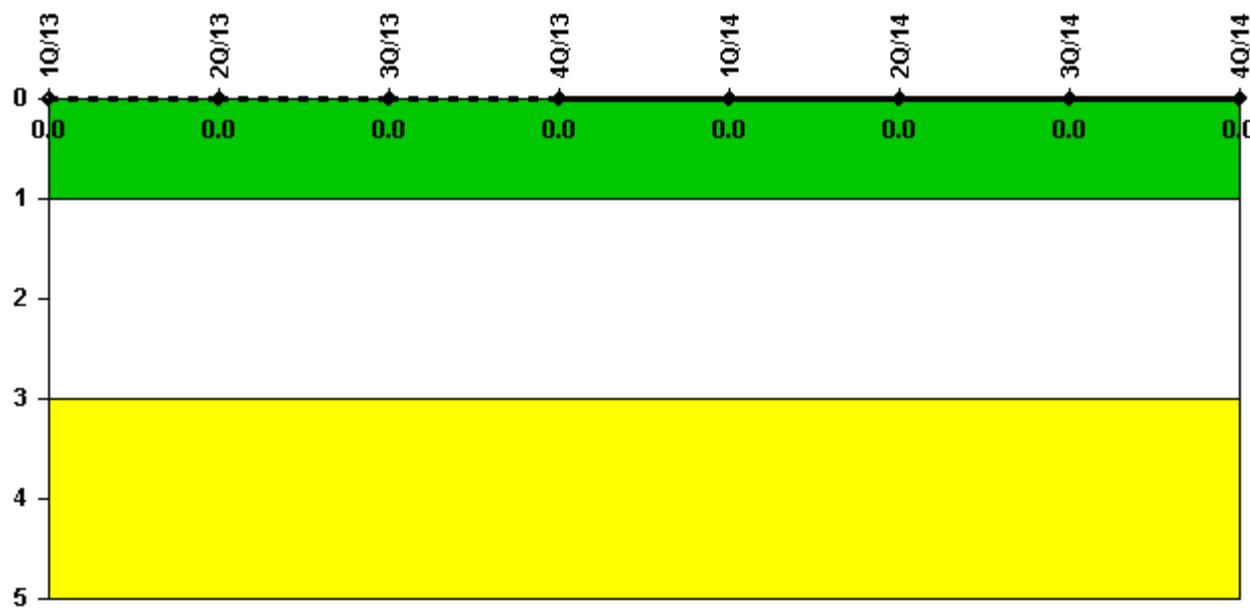
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

 [Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: February 3, 2015

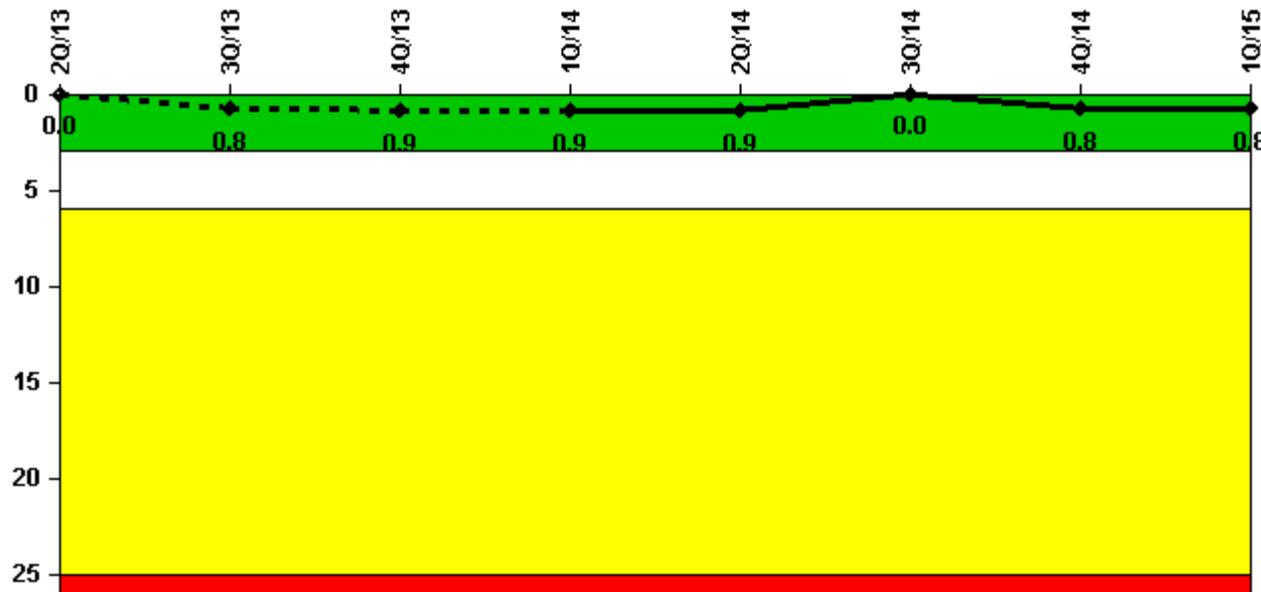
D.C. Cook 2

1Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

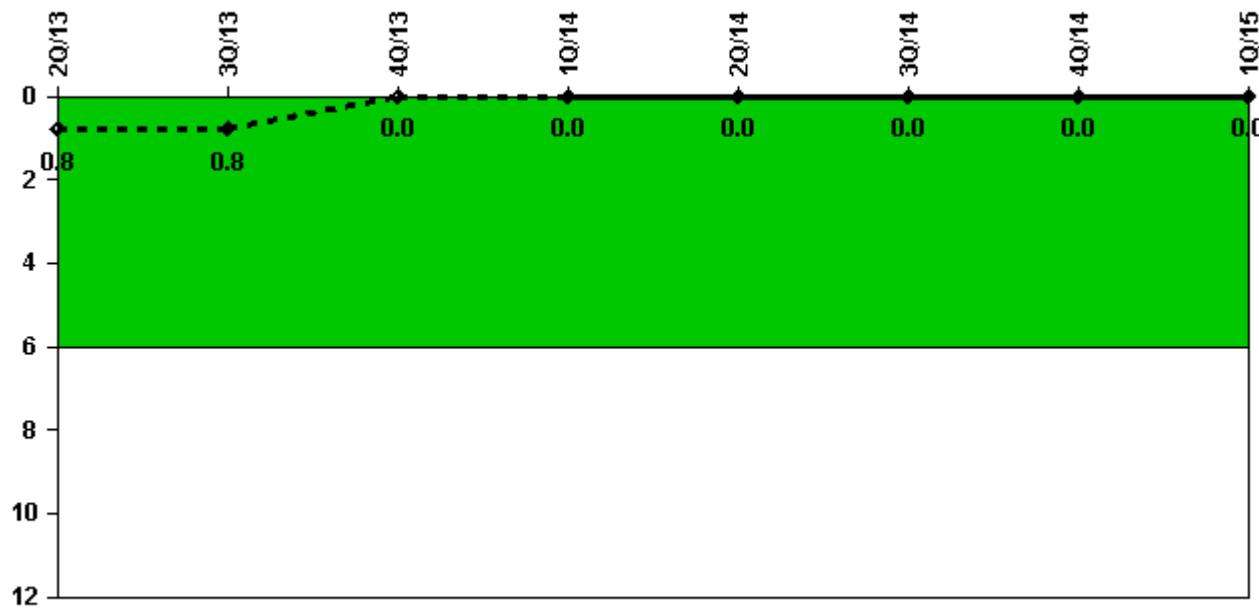
Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned scrams	0	1.0	0	0	0	0	1.0	0
Critical hours	2184.0	2161.1	1238.6	2159.0	2184.0	2208.0	1975.7	1991.0
Indicator value	0	0.8	0.9	0.9	0.9	0	0.8	0.8

Licensee Comments:

3Q/13: A reactor trip due to a turbine generator trip occurred on 7/28/2013 at 1018 due to an incorrect controller setpoint on the Condensate Heater Bypass Control Valve. Subsequently, the reactor was taken critical on 7/30/2013 at 0914.

Unplanned Power Changes per 7000 Critical Hrs



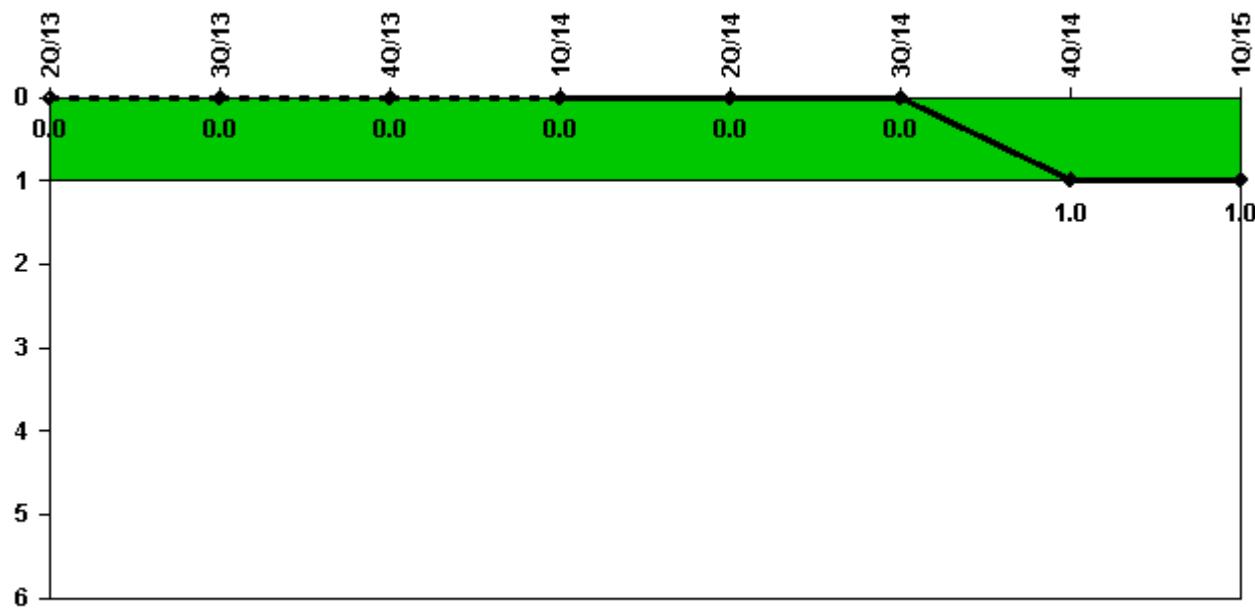
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2184.0	2161.1	1238.6	2159.0	2184.0	2208.0	1975.7	1991.0
Indicator value	0.8	0.8	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



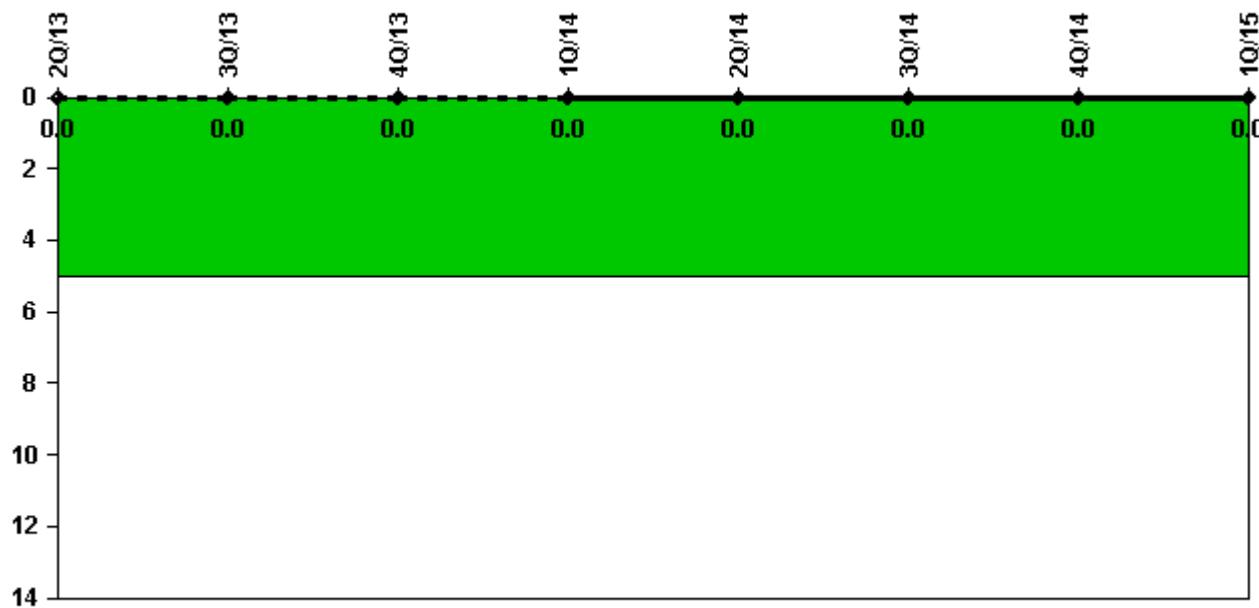
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Scrams with complications	0	0	0	0	0	0	1.0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0

Licensee Comments: none

Safety System Functional Failures (PWR)



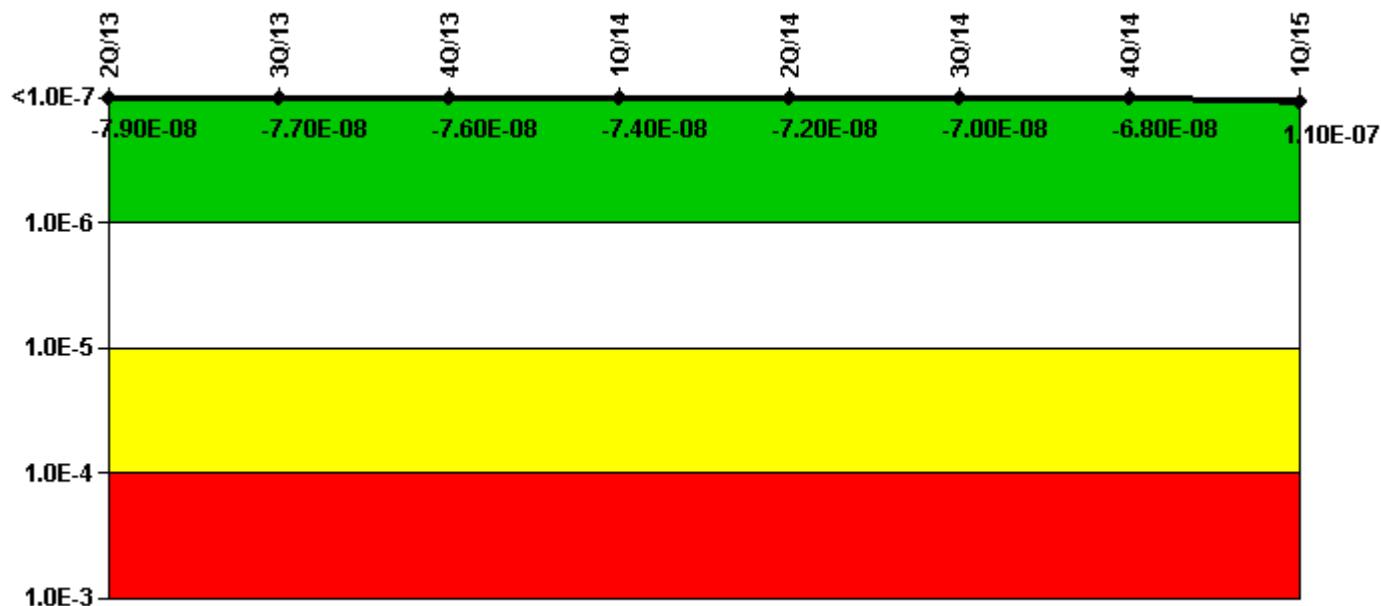
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	-4.69E-11	-2.43E-10	-2.54E-10	-2.69E-10	2.45E-10	3.29E-10	4.27E-10	4.20E-10
URI (Δ CDF)	-7.86E-08	-7.71E-08	-7.56E-08	-7.41E-08	-7.25E-08	-7.00E-08	-6.83E-08	1.13E-07
PLE	NO	NO						
Indicator value	-7.90E-08	-7.70E-08	-7.60E-08	-7.40E-08	-7.20E-08	-7.00E-08	-6.80E-08	1.10E-07

Licensee Comments:

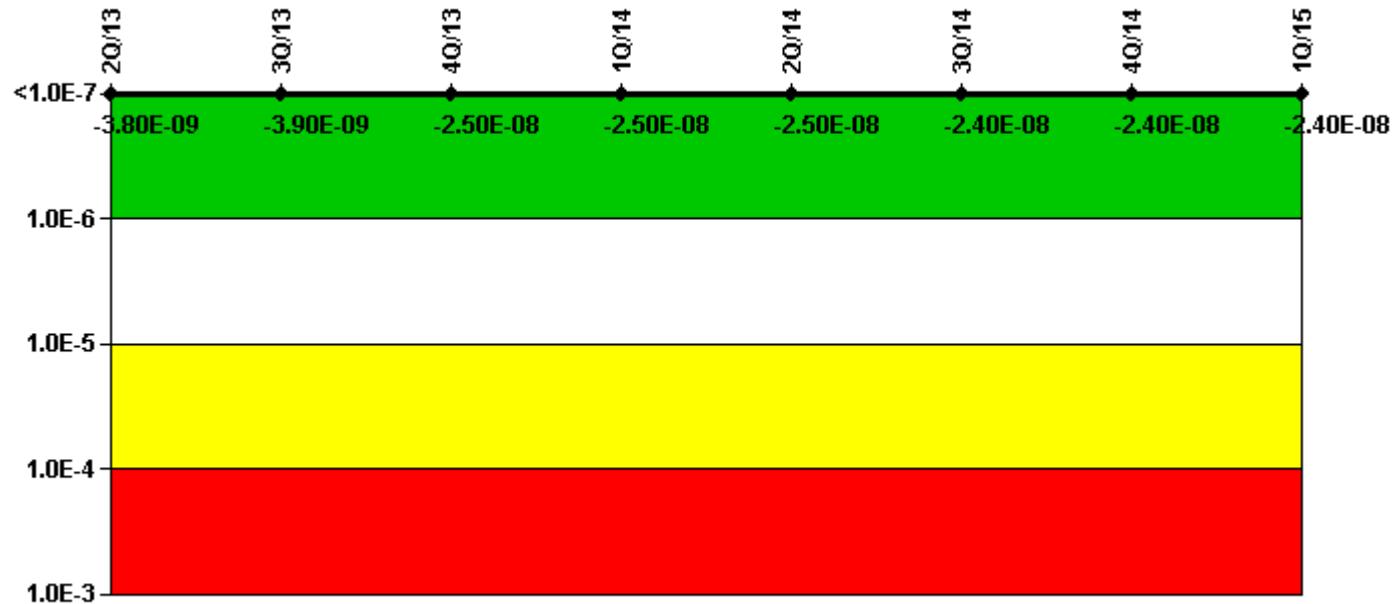
1Q/14: Revised MSPI Basis Document to update Emergency Diesel Generator Load Run Test Demand estimates.

4Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

3Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

2Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	-2.44E-11	-2.66E-11	-2.66E-11	-2.66E-11	-2.66E-11	-2.12E-11	-2.11E-11	-2.11E-11
URI (Δ CDF)	-3.82E-09	-3.82E-09	-2.54E-08	-2.54E-08	-2.54E-08	-2.39E-08	-2.39E-08	-2.39E-08
PLE	NO							
Indicator value	-3.80E-09	-3.90E-09	-2.50E-08	-2.50E-08	-2.50E-08	-2.40E-08	-2.40E-08	-2.40E-08

Licensee Comments:

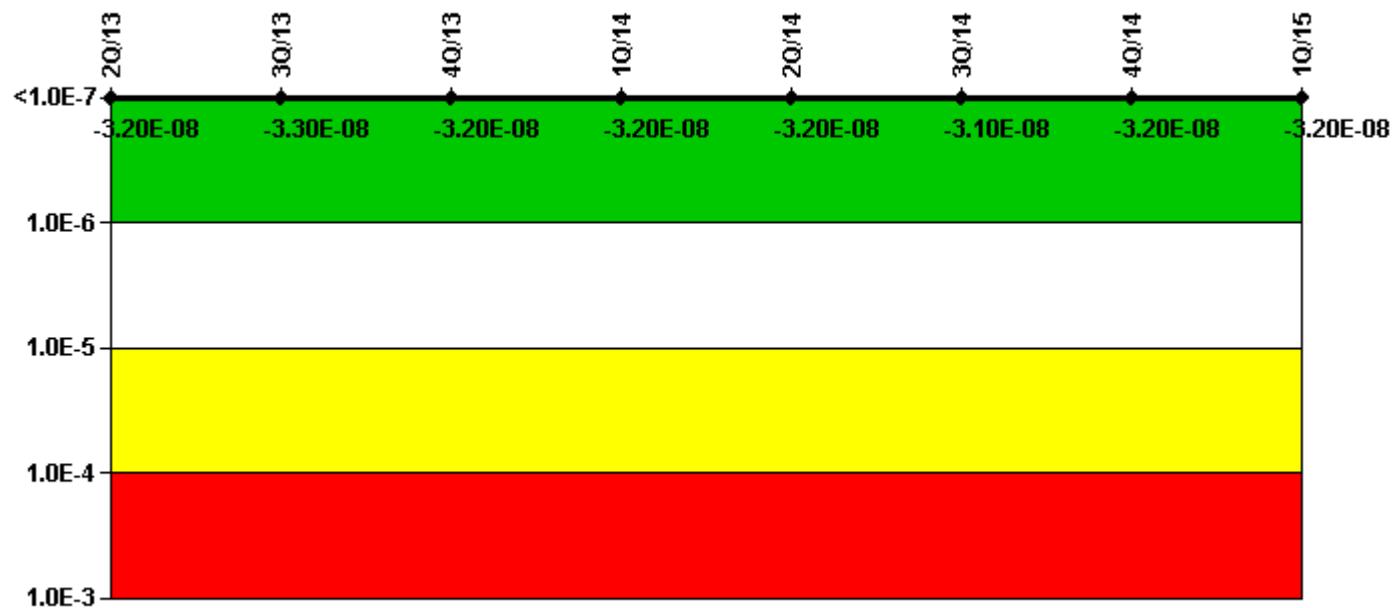
2Q/14: The High Pressure Injection System MS07 data has been corrected to include an additional 16.62 hours of unavailability for Unit 2 A East CCP Train that were not reported in the 2Q14 submittal. This data change did not result in a change to the indicator color.

3Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

2Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

2Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

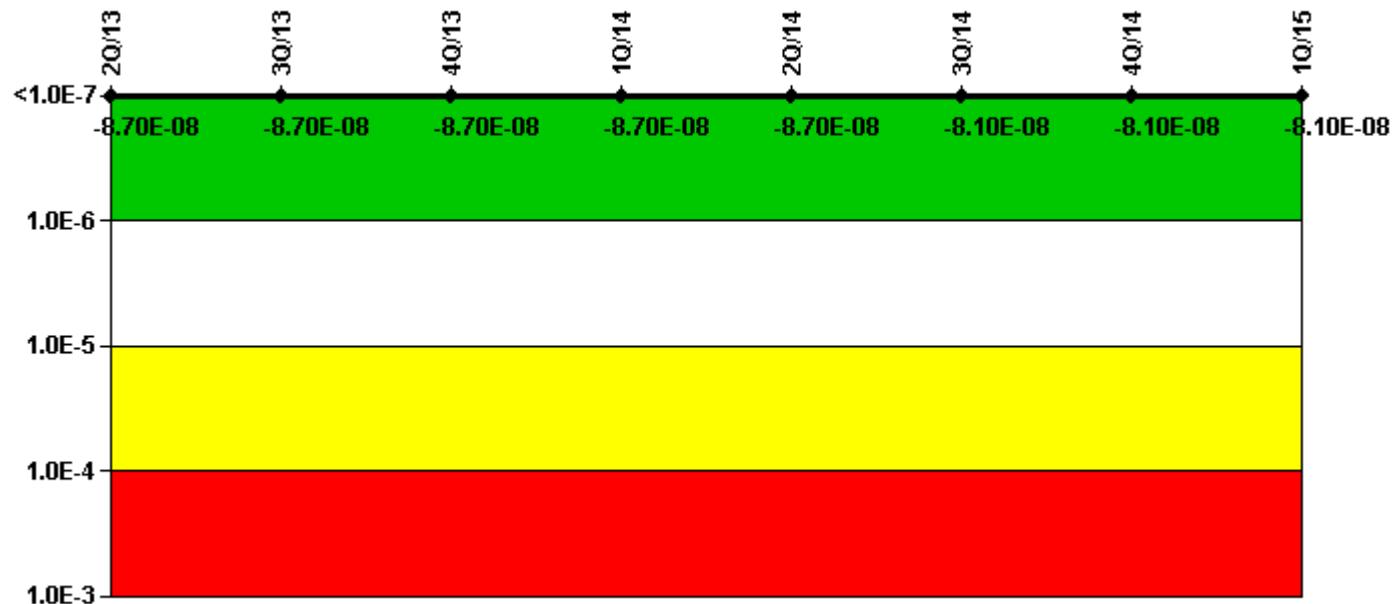
Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	-9.86E-12	-1.28E-11	-1.34E-11	-1.34E-11	8.06E-12	1.64E-11	1.79E-11	8.84E-12
URI (Δ CDF)	-3.20E-08	-3.30E-08	-3.23E-08	-3.23E-08	-3.23E-08	-3.15E-08	-3.23E-08	-3.23E-08
PLE	NO							
	-3.20E-	-3.30E-	-3.20E-	-3.20E-	-3.20E-	-3.10E-	-3.20E-	-3.20E-

Indicator value		08	08	08	08	08	08	08	08
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Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



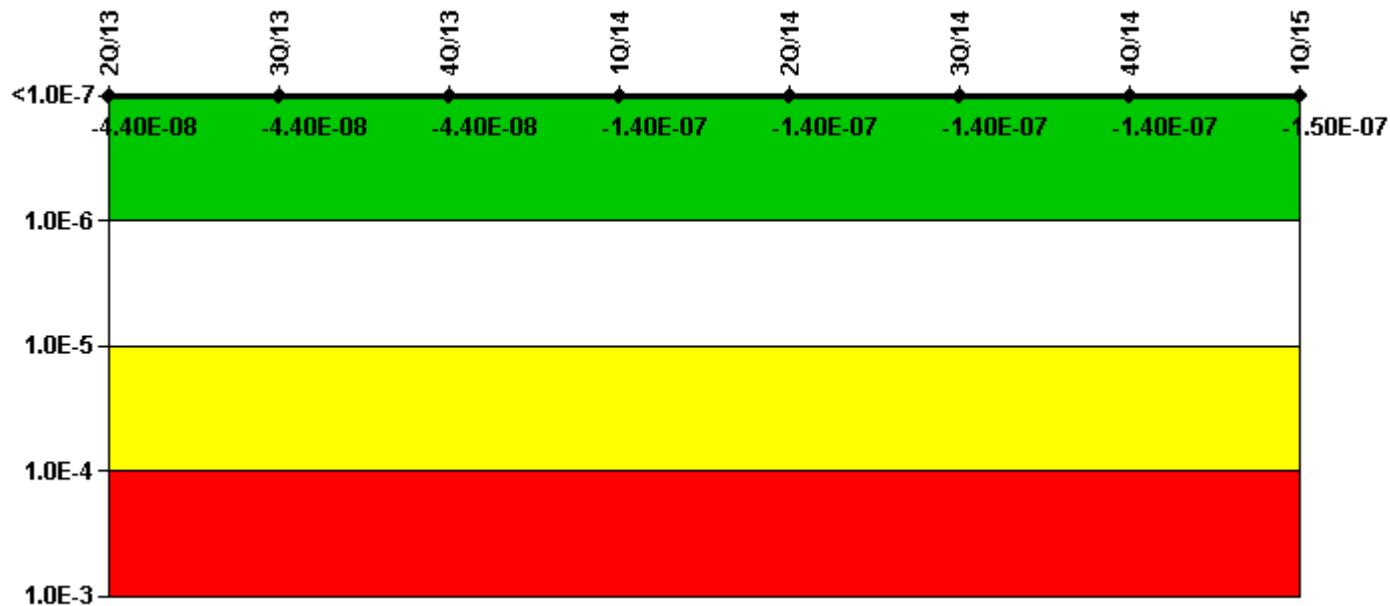
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	-3.23E-13	-3.23E-13	-3.23E-13	-3.23E-13	-2.16E-13	7.55E-13	7.84E-13	7.46E-13
URI (Δ CDF)	-8.69E-08	-8.69E-08	-8.69E-08	-8.69E-08	-8.69E-08	-8.12E-08	-8.12E-08	-8.12E-08
PLE	NO							
Indicator value	-8.70E-08	-8.70E-08	-8.70E-08	-8.70E-08	-8.70E-08	-8.10E-08	-8.10E-08	-8.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

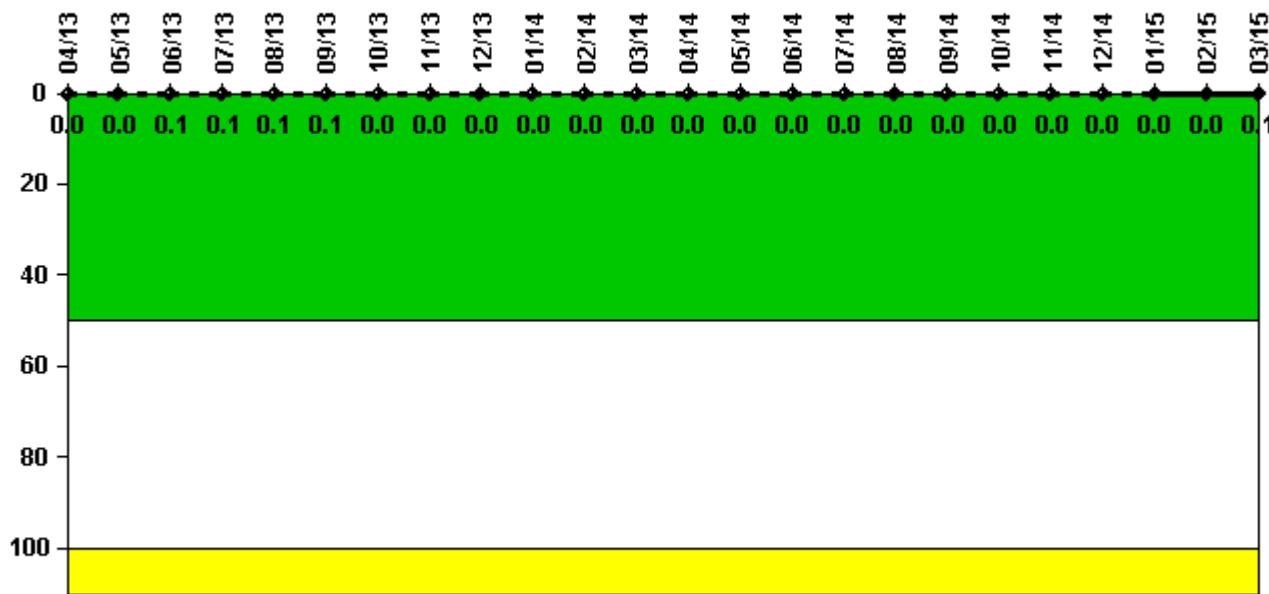
Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	-2.61E-12	-2.33E-12	1.17E-12	-3.82E-11	-3.82E-11	-3.78E-11	-3.46E-11	-5.33E-11
URI (Δ CDF)	-4.36E-08	-4.36E-08	-4.36E-08	-1.40E-07	-1.40E-07	-1.39E-07	-1.39E-07	-1.48E-07
PLE	NO							
Indicator value	-4.40E-08	-4.40E-08	-4.40E-08	-1.40E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.50E-07

Licensee Comments:

1Q/15: The MSPI Basis Document was updated in the 4th Quarter 2014 to reflect 2009 PRA model of record error that the PRA model incorrectly removed cutsets associated with failure of the CCW heat exchanger CCW outlet valves (2-CMO-410 & 420) opening from model results. As a result, these valves have been incorporated in the Unit 2 Cooling Water System scope of monitored components.

Reactor Coolant System Activity



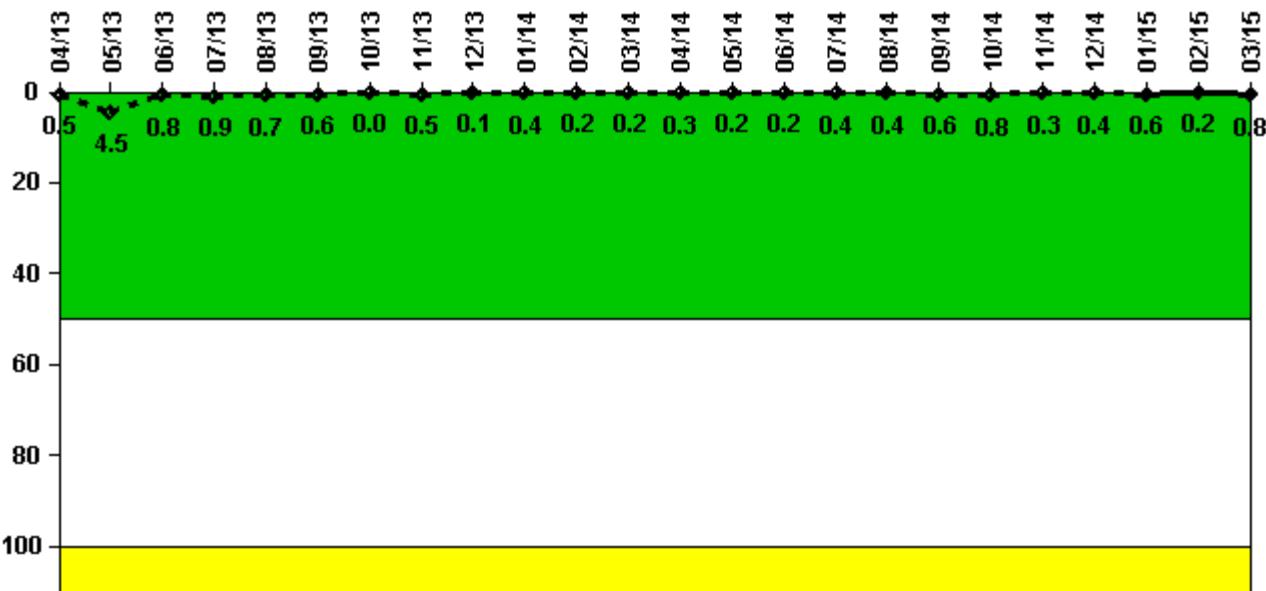
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum activity	0.0000162	0.0000168	0.0000175	0.0000183	0.0000191	0.0000382	0.0000164	0.0000068	0.0000090	0.0000095	0.0000099	0.0000102
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0.1	0.1	0.1	0.1	0	0	0	0	0	0
Reactor Coolant System Activity	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum activity	0.0000115	0.0000111	0.0000114	0.0000121	0.0000125	0.0000127	0.0000131	0.0000137	0.0000162	0.0000145	0.0000149	0.0000197
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0.1

Licensee Comments: none

Reactor Coolant System Leakage



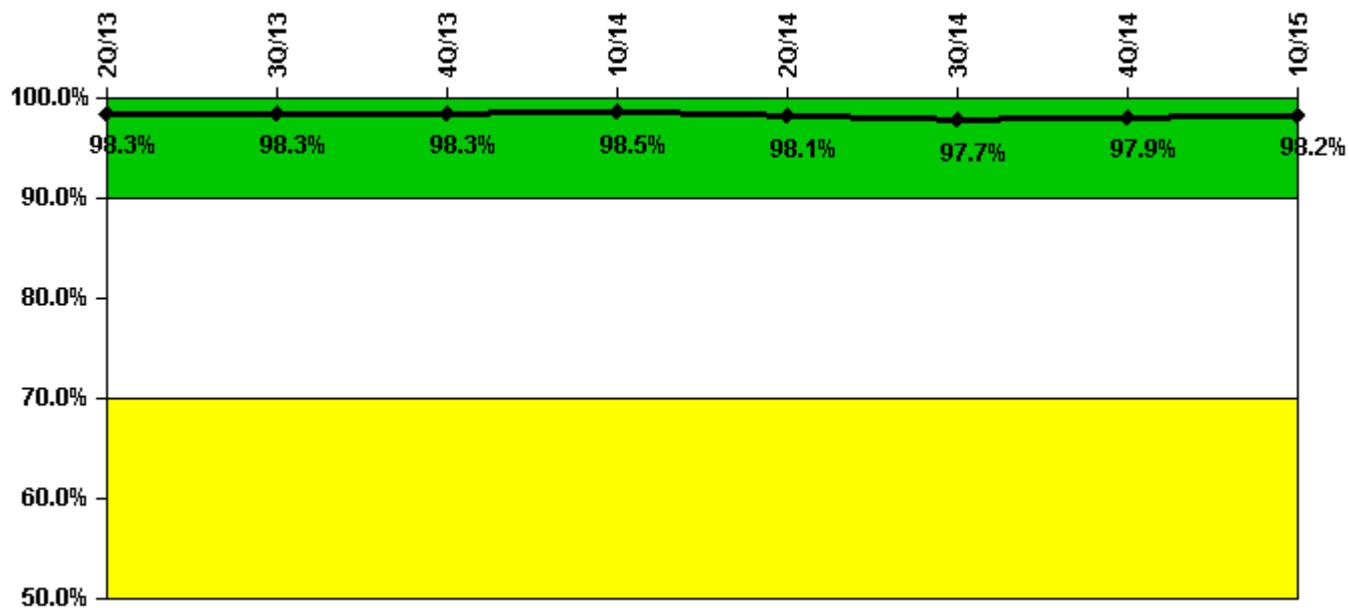
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum leakage	0.050	0.490	0.085	0.096	0.073	0.067	0	0.052	0.010	0.045	0.026	0.024
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.5	4.5	0.8	0.9	0.7	0.6	0	0.5	0.1	0.4	0.2	0.2
Reactor Coolant System Leakage	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum leakage	0.028	0.023	0.024	0.039	0.048	0.071	0.084	0.028	0.041	0.064	0.025	0.085
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.3	0.2	0.2	0.4	0.4	0.6	0.8	0.3	0.4	0.6	0.2	0.8

Licensee Comments: none

Drill/Exercise Performance



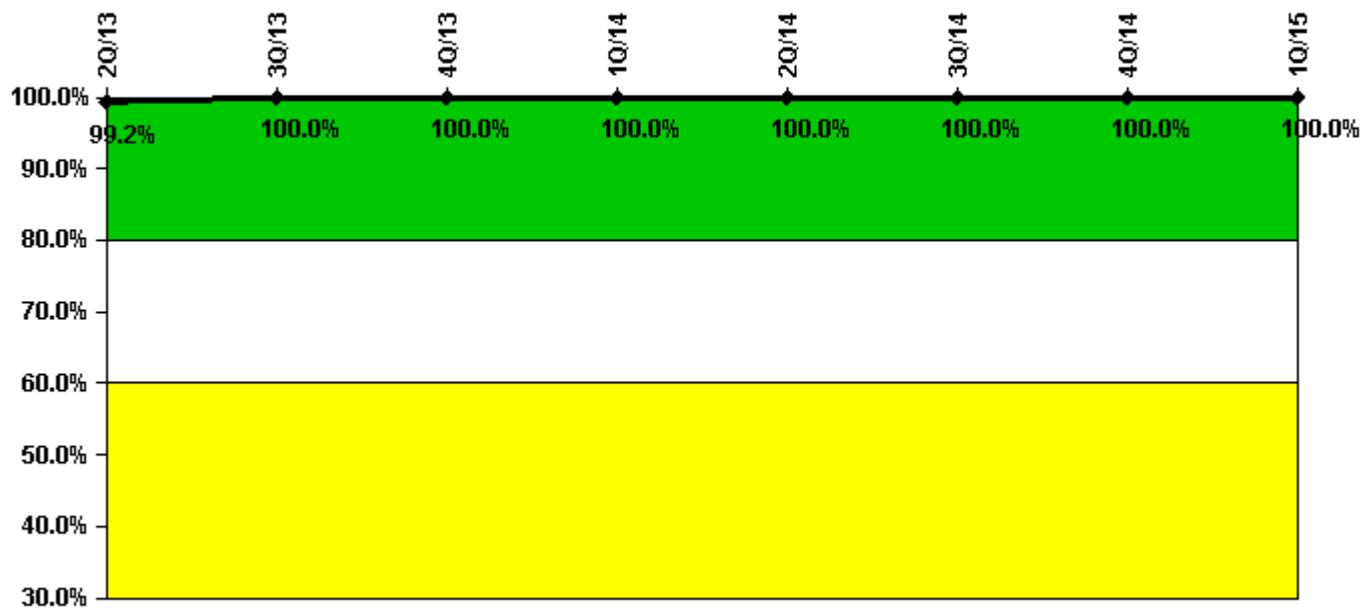
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful opportunities	20.0	44.0	0	55.0	23.0	59.0	56.0	68.0
Total opportunities	20.0	44.0	0	56.0	25.0	61.0	56.0	69.0
Indicator value	98.3%	98.3%	98.3%	98.5%	98.1%	97.7%	97.9%	98.2%

Licensee Comments: none

ERO Drill Participation



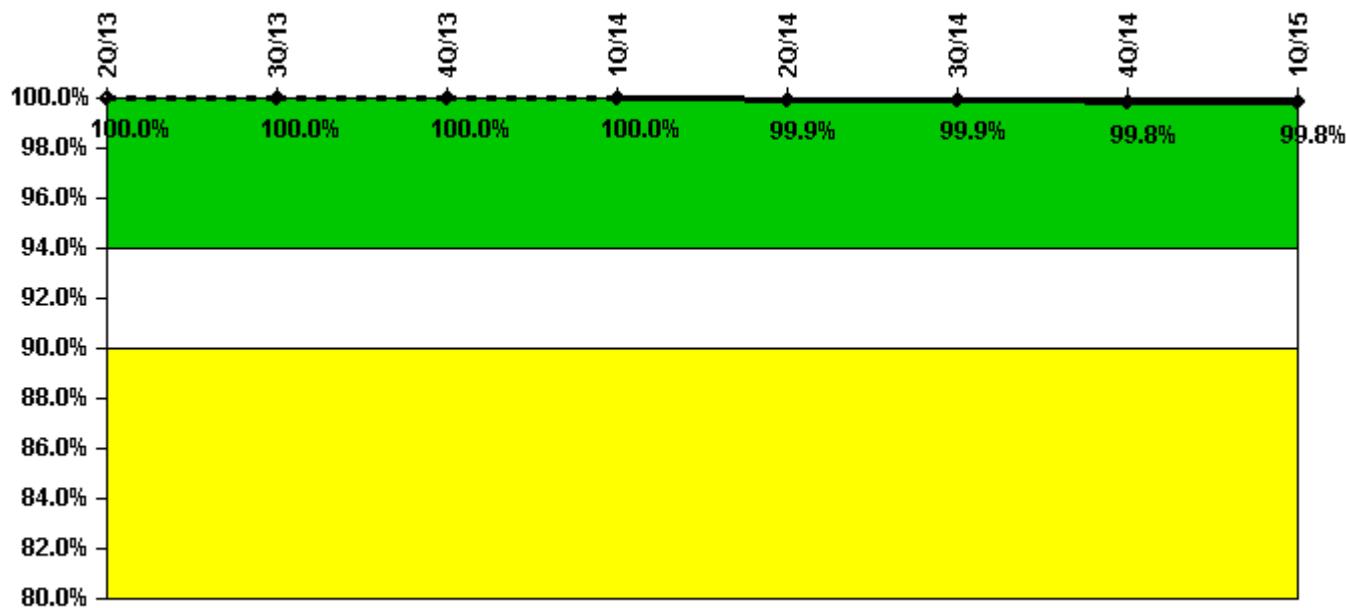
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Participating Key personnel	121.0	118.0	118.0	120.0	118.0	123.0	128.0	133.0
Total Key personnel	122.0	118.0	118.0	120.0	118.0	123.0	128.0	133.0
Indicator value	99.2%	100.0%						

Licensee Comments: none

Alert & Notification System



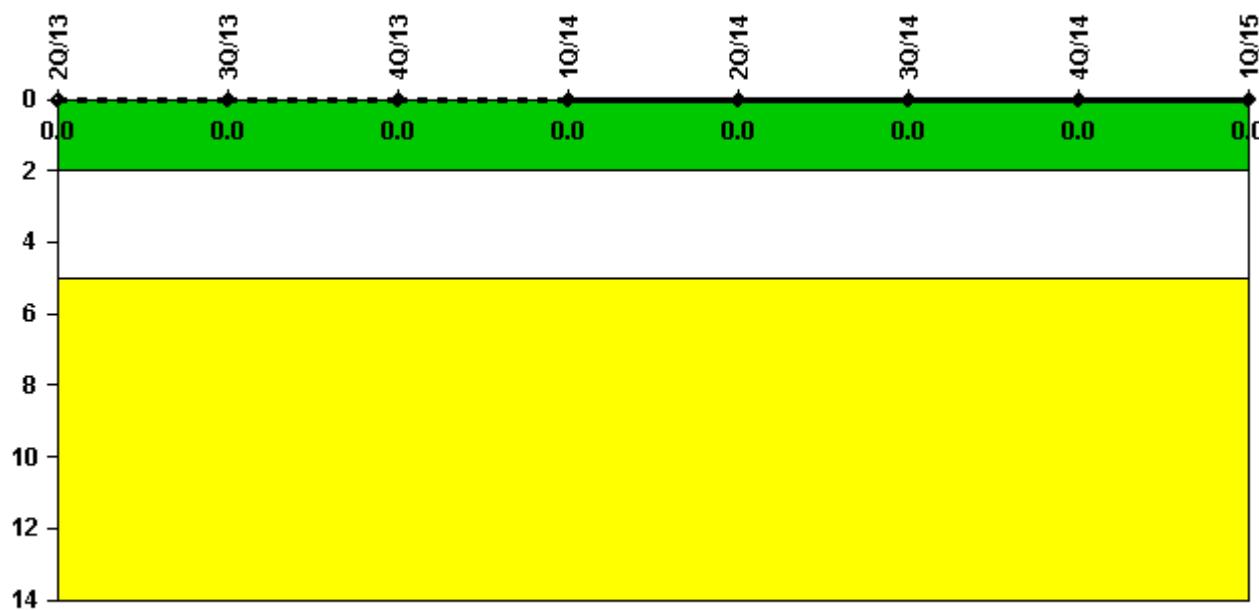
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful siren-tests	1119	1120	1120	1119	1116	1119	1187	1050
Total sirens-tests	1119	1120	1120	1120	1119	1120	1190	1050
Indicator value	100.0%	100.0%	100.0%	100.0%	99.9%	99.9%	99.8%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



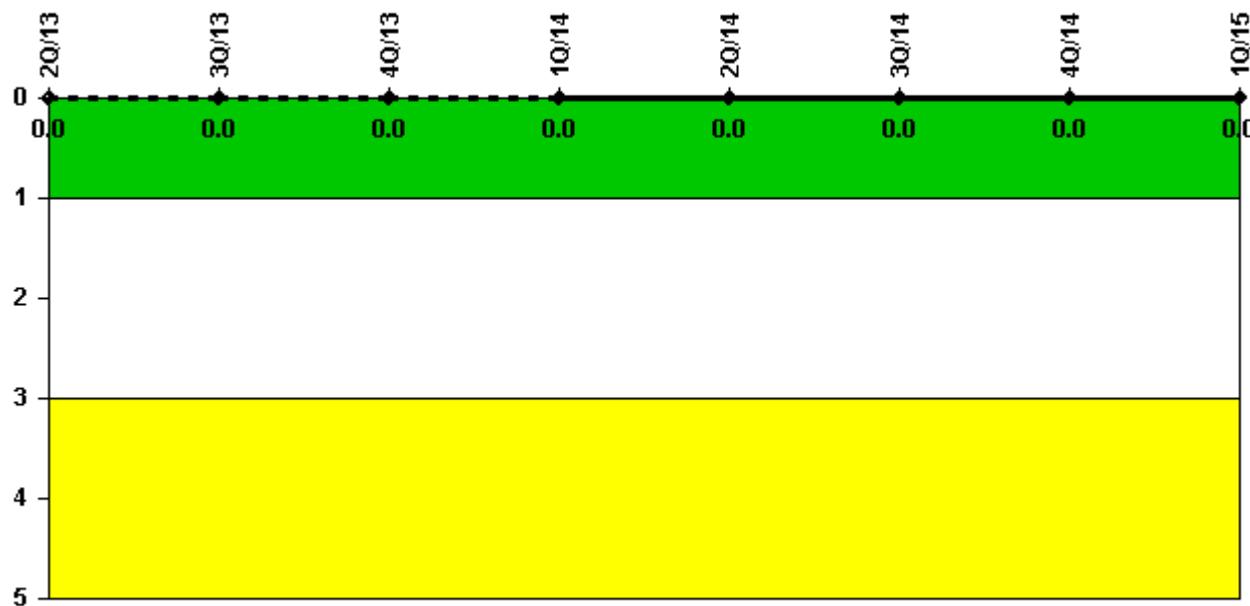
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



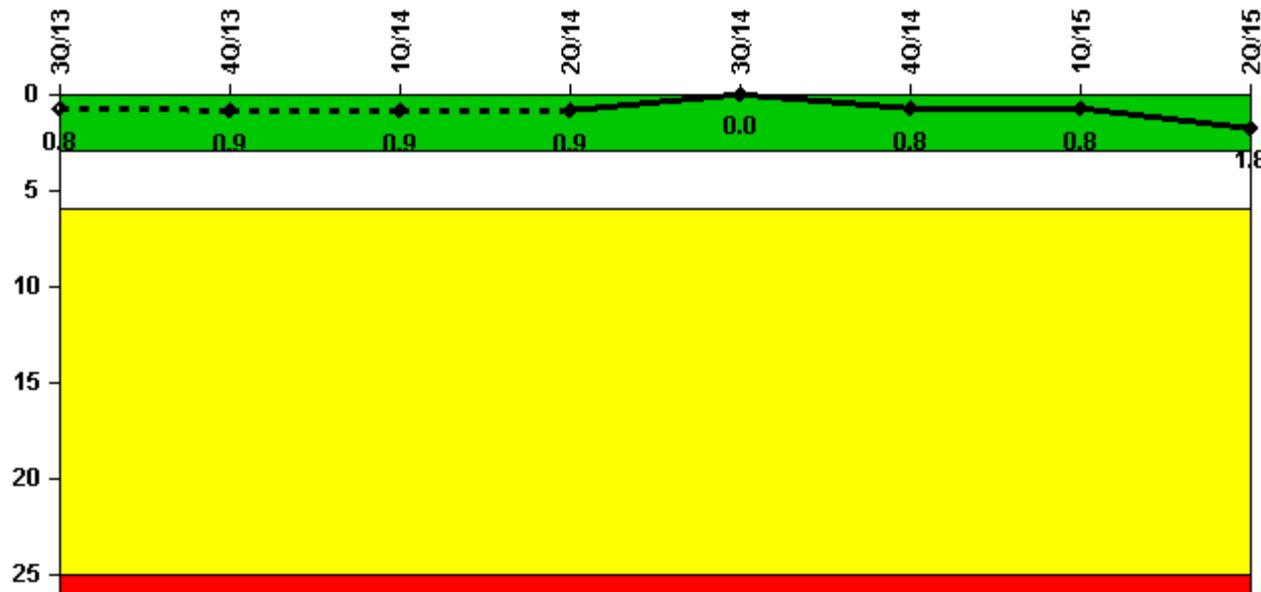
[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: April 23, 2015

D.C. Cook 2**2Q/2015 Performance Indicators**

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

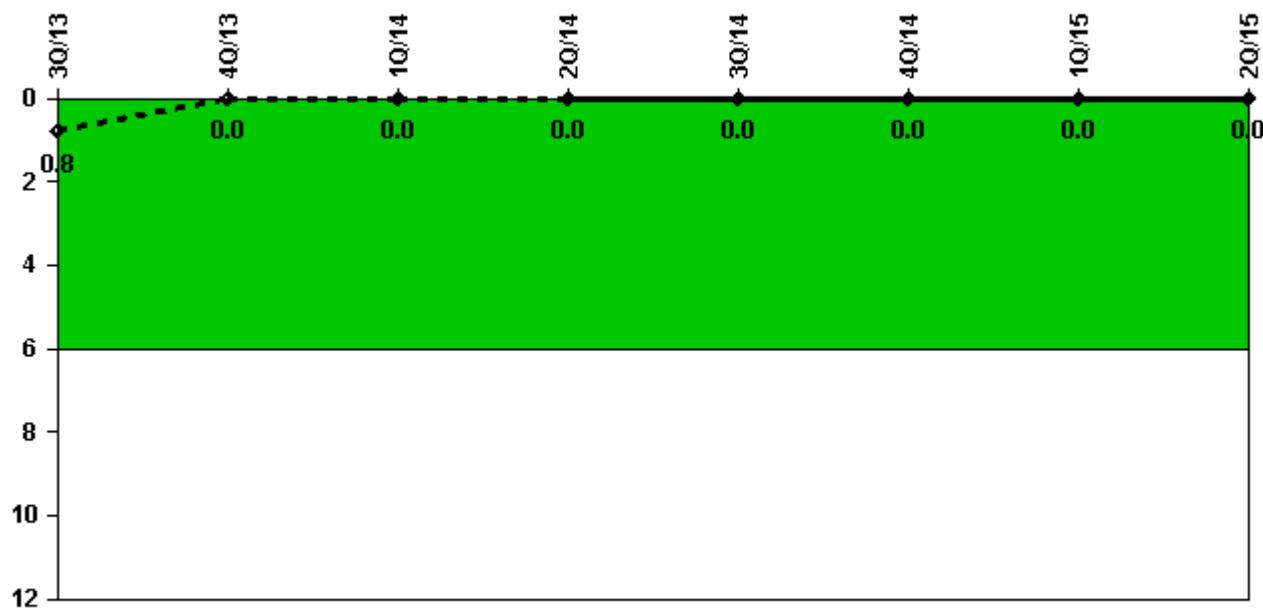
Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned scrams	1.0	0	0	0	0	1.0	0	1.0
Critical hours	2161.1	1238.6	2159.0	2184.0	2208.0	1975.7	1991.0	1552.2
Indicator value	0.8	0.9	0.9	0.9	0	0.8	0.8	1.8

Licensee Comments:

3Q/13: A reactor trip due to a turbine generator trip occurred on 7/28/2013 at 1018 due to an incorrect controller setpoint on the Condensate Heater Bypass Control Valve. Subsequently, the reactor was taken critical on 7/30/2013 at 0914.

Unplanned Power Changes per 7000 Critical Hrs



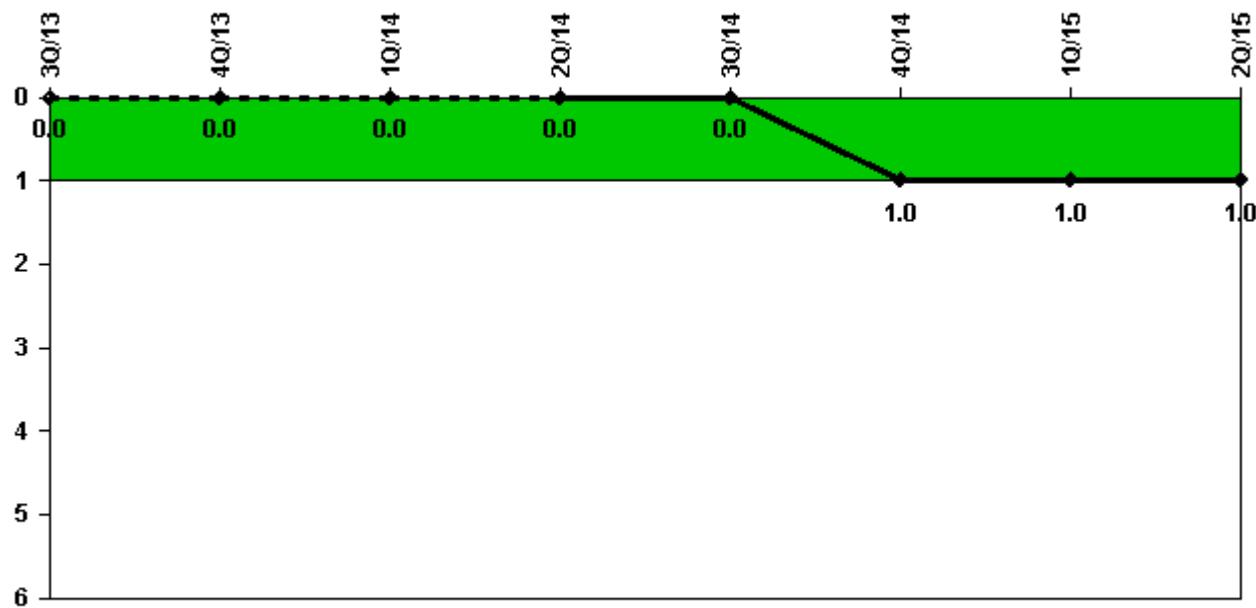
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2161.1	1238.6	2159.0	2184.0	2208.0	1975.7	1991.0	1552.2
Indicator value	0.8	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



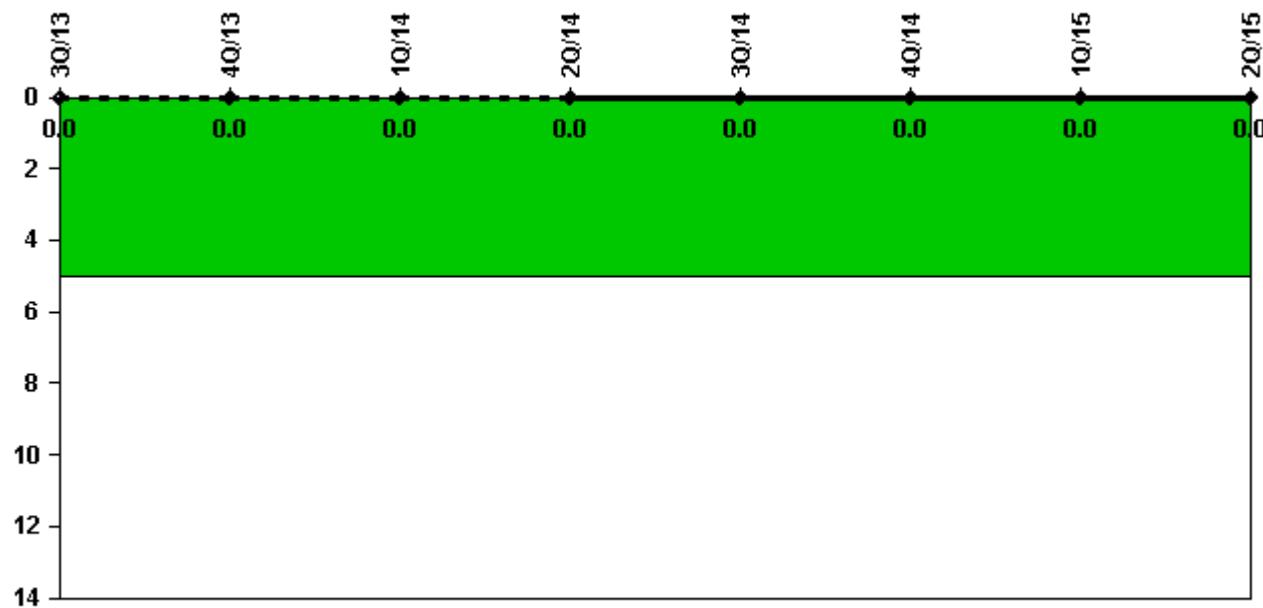
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Scrams with complications	0	0	0	0	0	1.0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0

Licensee Comments: none

Safety System Functional Failures (PWR)



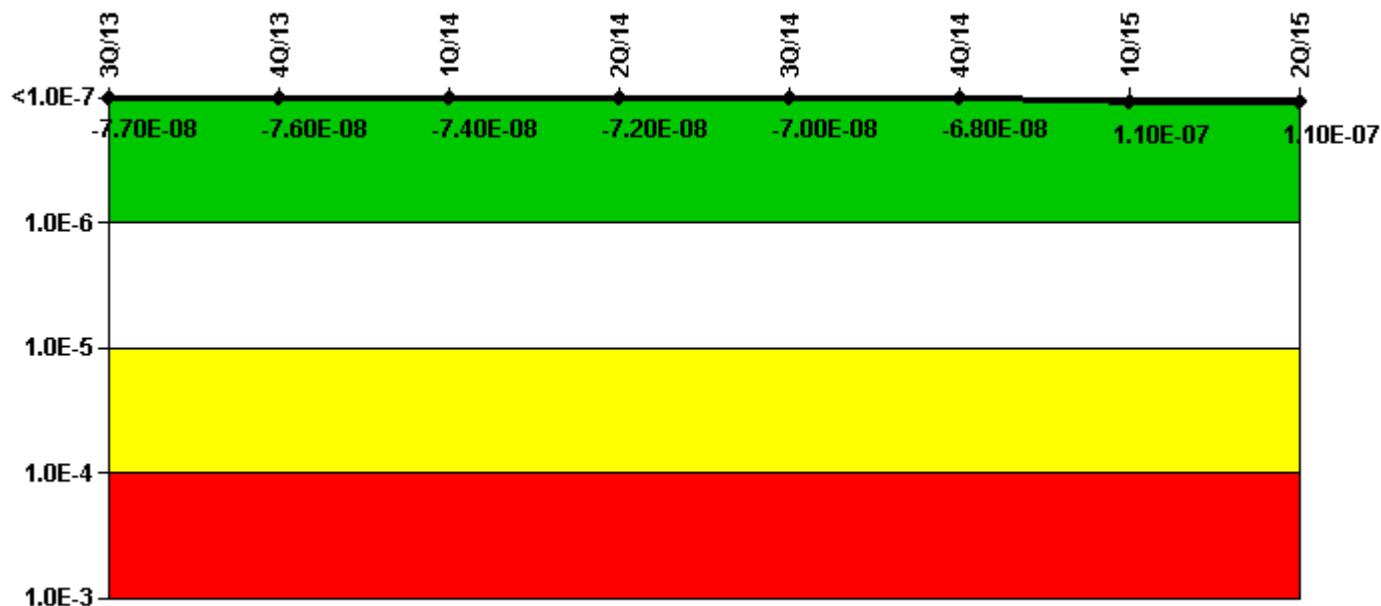
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (Δ CDF)	-2.43E-10	-2.54E-10	-2.69E-10	2.45E-10	3.29E-10	4.27E-10	4.20E-10	-1.54E-10
URI (Δ CDF)	-7.71E-08	-7.56E-08	-7.41E-08	-7.25E-08	-7.00E-08	-6.83E-08	1.13E-07	1.13E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.70E-08	-7.60E-08	-7.40E-08	-7.20E-08	-7.00E-08	-6.80E-08	1.10E-07	1.10E-07

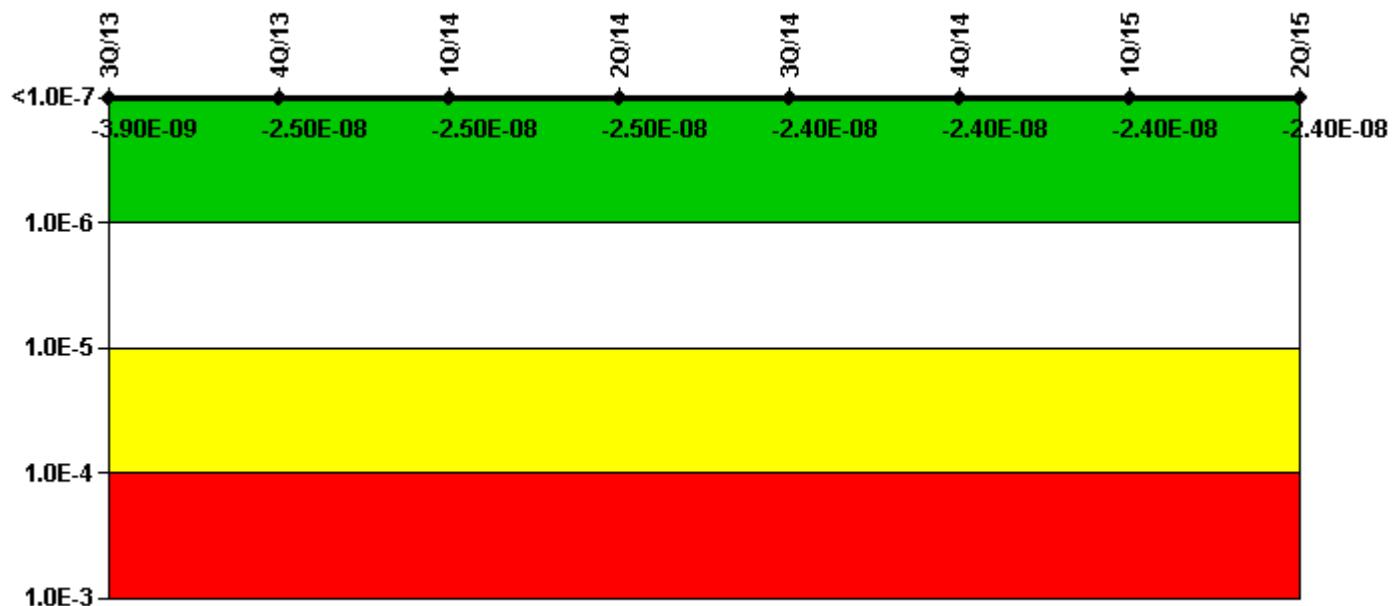
Licensee Comments:

1Q/14: Revised MSPI Basis Document to update Emergency Diesel Generator Load Run Test Demand estimates.

4Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

3Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

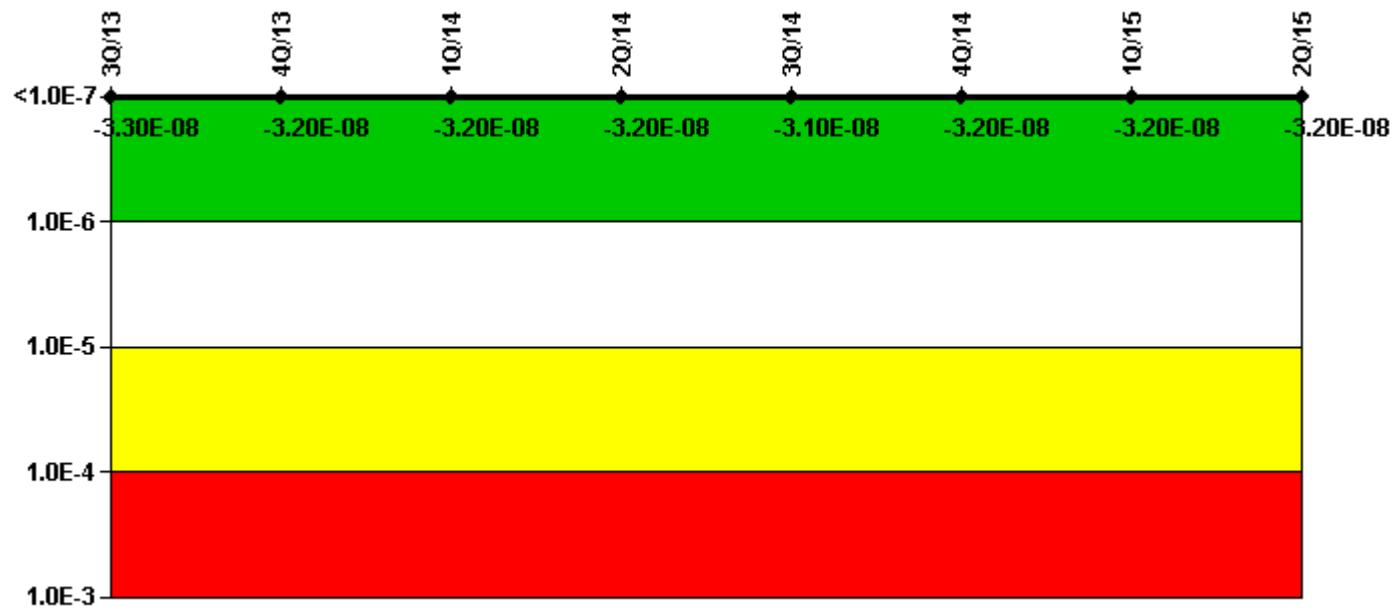
Mitigating Systems Performance Index, High Pressure Injection System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (Δ CDF)	-2.66E-11	-2.66E-11	-2.66E-11	-2.66E-11	-2.12E-11	-2.11E-11	-2.11E-11	-2.11E-11
URI (Δ CDF)	-3.82E-09	-2.54E-08	-2.54E-08	-2.54E-08	-2.39E-08	-2.39E-08	-2.39E-08	-2.39E-08
PLE	NO							
Indicator value	-3.90E-09	-2.50E-08	-2.50E-08	-2.50E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08

Licensee Comments:

2Q/14: The High Pressure Injection System MS07 data has been corrected to include an additional 16.62 hours of unavailability for Unit 2 A East CCP Train that were not reported in the 2Q14 submittal. This data change did not result in a change to the indicator color.

3Q/13: Revised the MSPI scope of monitored components for High Pressure Safety Injection HPSI to remove two injection pathway boundary valves, which was effective 2nd Quarter 2008. MSPI Basis document excludes these valves from the MSPI scope based on Birnbaum value < 1.0 E-06. The MSPI basis document was revised to make this change in the 1st Quarter 2008. This change does not affect "color" of the indicator from 2nd Quarter 2008 to present.

Mitigating Systems Performance Index, Heat Removal System



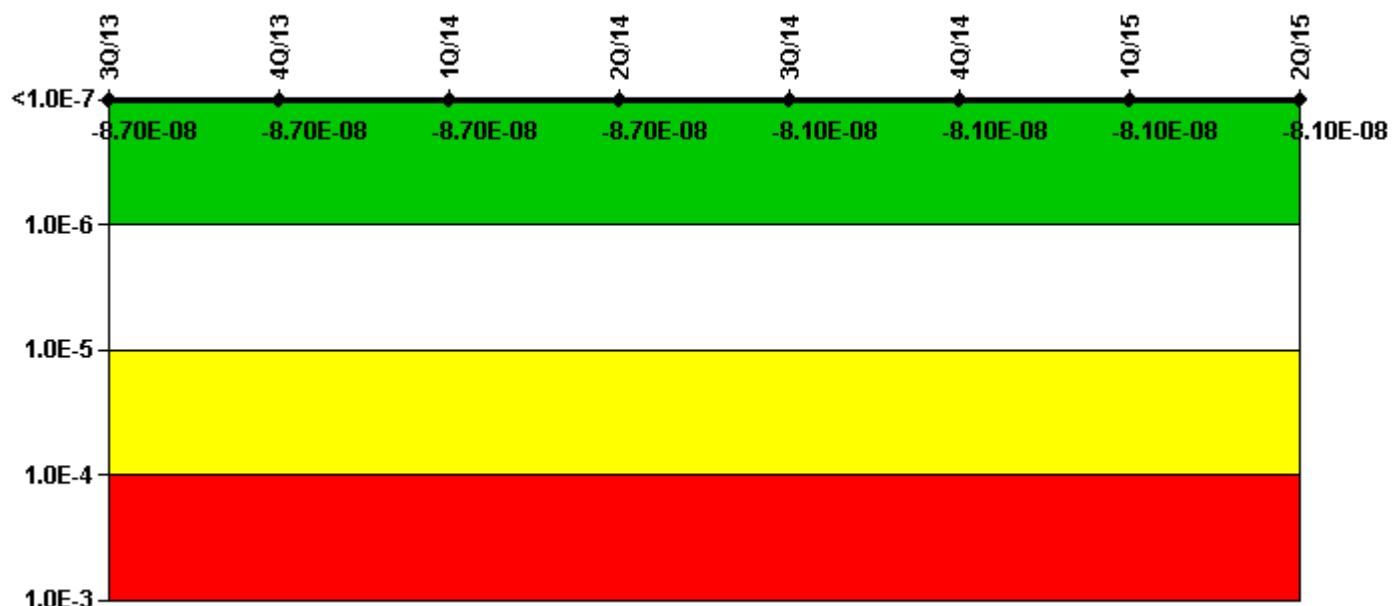
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (Δ CDF)	-1.28E-11	-1.34E-11	-1.34E-11	8.06E-12	1.64E-11	1.79E-11	8.84E-12	-1.34E-11
URI (Δ CDF)	-3.30E-08	-3.23E-08	-3.23E-08	-3.23E-08	-3.15E-08	-3.23E-08	-3.23E-08	-3.23E-08
PLE	NO							
Indicator value	-3.30E-08	-3.20E-08	-3.20E-08	-3.20E-08	-3.10E-08	-3.20E-08	-3.20E-08	-3.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



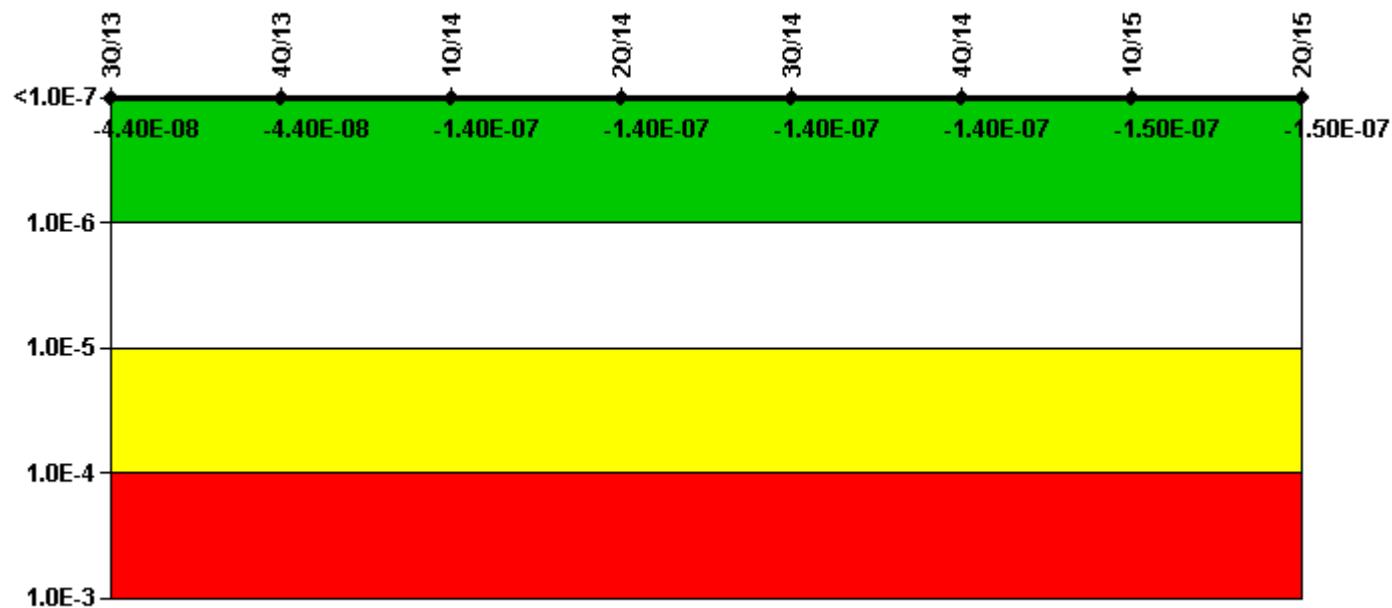
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (Δ CDF)	-3.23E-13	-3.23E-13	-3.23E-13	-2.16E-13	7.55E-13	7.84E-13	7.46E-13	4.76E-13
URI (Δ CDF)	-8.69E-08	-8.69E-08	-8.69E-08	-8.69E-08	-8.12E-08	-8.12E-08	-8.12E-08	-8.12E-08
PLE	NO							
Indicator value	-8.70E-08	-8.70E-08	-8.70E-08	-8.70E-08	-8.10E-08	-8.10E-08	-8.10E-08	-8.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

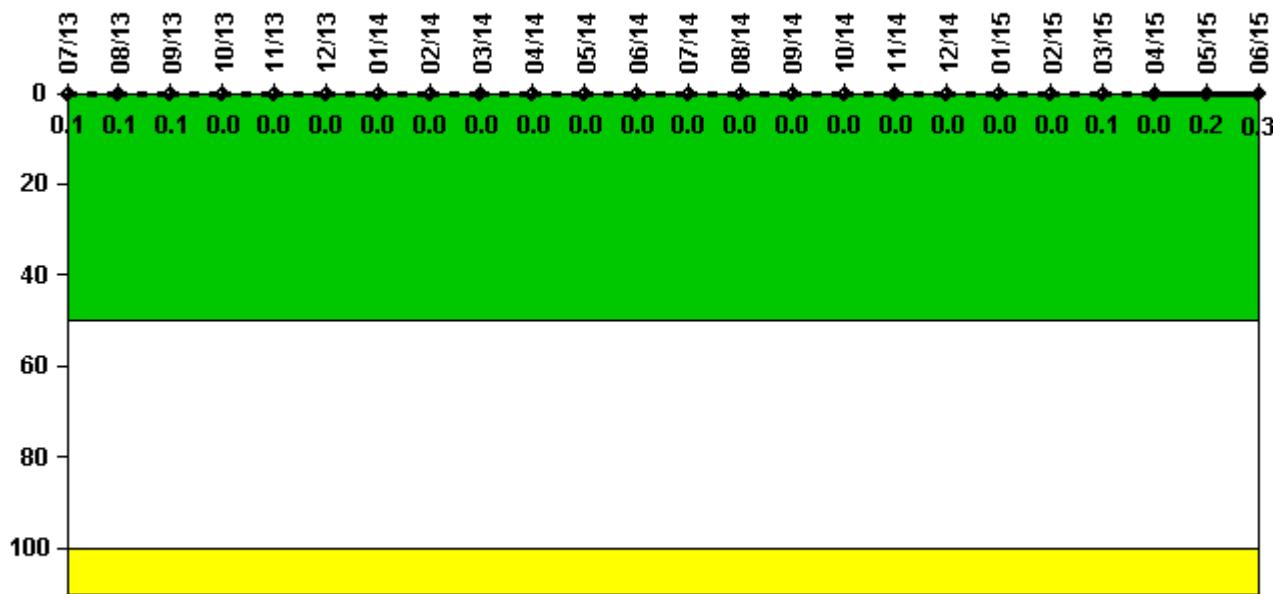
Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (Δ CDF)	-2.33E-12	1.17E-12	-3.82E-11	-3.82E-11	-3.78E-11	-3.46E-11	-5.33E-11	-5.34E-11
URI (Δ CDF)	-4.36E-08	-4.36E-08	-1.40E-07	-1.40E-07	-1.39E-07	-1.39E-07	-1.48E-07	-1.49E-07
PLE	NO							
Indicator value	-4.40E-08	-4.40E-08	-1.40E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.50E-07

Licensee Comments:

1Q/15: The MSPI Basis Document was updated in the 4th Quarter 2014 to reflect 2009 PRA model of record error that the PRA model incorrectly removed cutsets associated with failure of the CCW heat exchanger CCW outlet valves (2-CMO-410 & 420) opening from model results. As a result, these valves have been incorporated in the Unit 2 Cooling Water System scope of monitored components.

Reactor Coolant System Activity



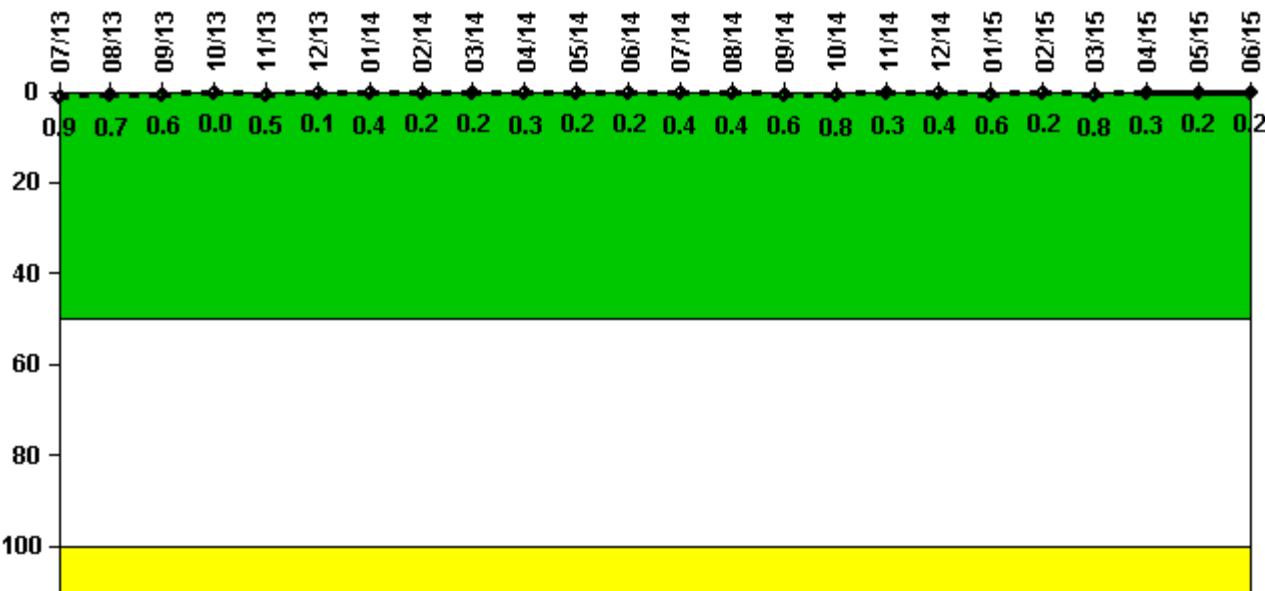
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum activity	0.000183	0.000191	0.000382	0.000164	0.000068	0.000090	0.000095	0.000099	0.000102	0.000115	0.000111	0.000114
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum activity	0.000121	0.000125	0.000127	0.000131	0.000137	0.000162	0.000145	0.000149	0.000197	0.000035	0.000662	0.001160
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0	0	0	0	0	0	0.1	0	0.2	0.3

Licensee Comments: none

Reactor Coolant System Leakage



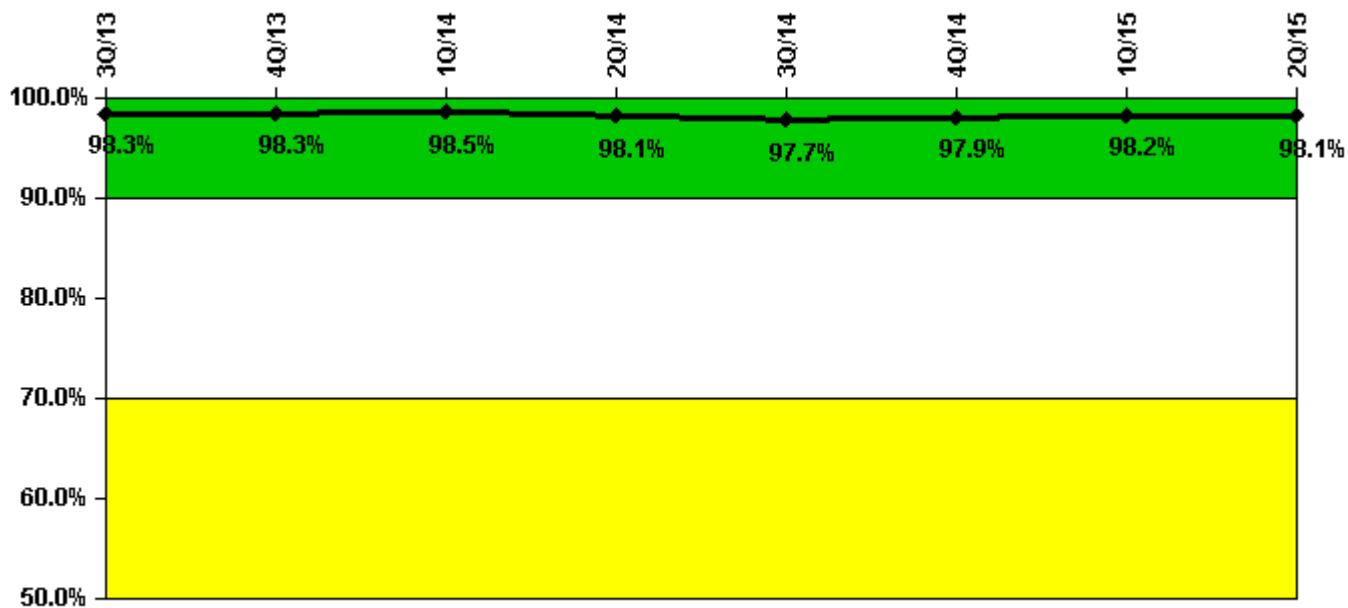
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum leakage	0.096	0.073	0.067	0	0.052	0.010	0.045	0.026	0.024	0.028	0.023	0.024
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.9	0.7	0.6	0	0.5	0.1	0.4	0.2	0.2	0.3	0.2	0.2
Reactor Coolant System Leakage	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum leakage	0.039	0.048	0.071	0.084	0.028	0.041	0.064	0.025	0.085	0.037	0.024	0.023
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.4	0.4	0.6	0.8	0.3	0.4	0.6	0.2	0.8	0.3	0.2	0.2

Licensee Comments: none

Drill/Exercise Performance



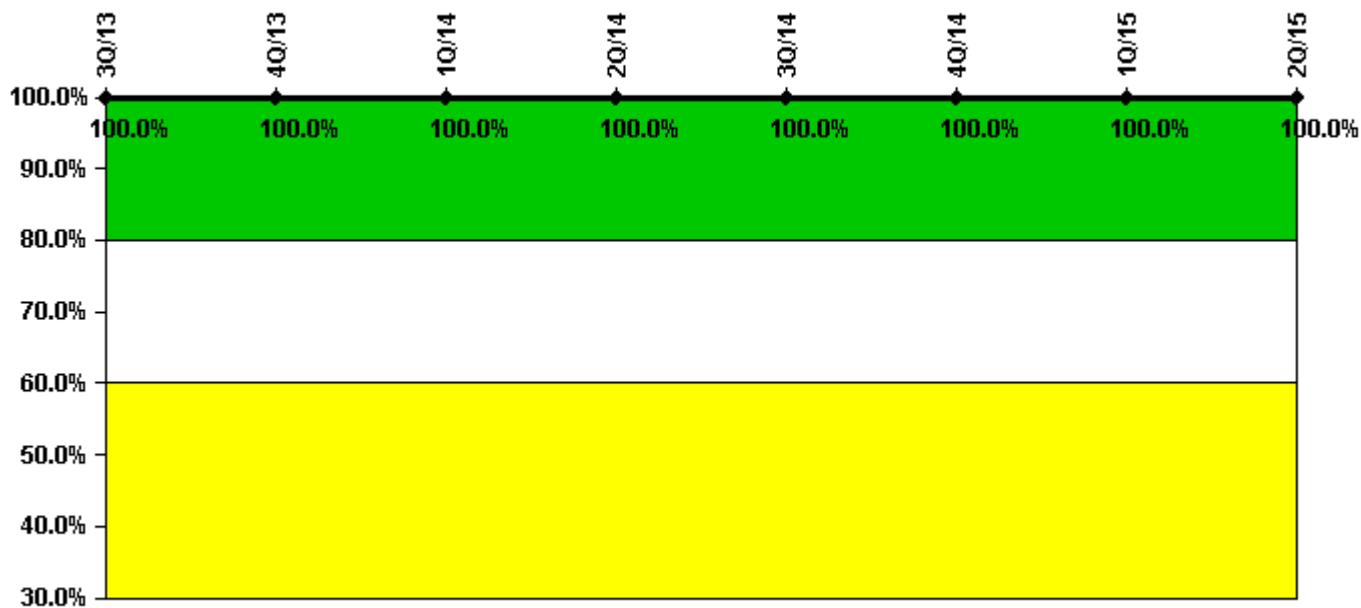
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful opportunities	44.0	0	55.0	23.0	59.0	56.0	68.0	12.0
Total opportunities	44.0	0	56.0	25.0	61.0	56.0	69.0	12.0
Indicator value	98.3%	98.3%	98.5%	98.1%	97.7%	97.9%	98.2%	98.1%

Licensee Comments: none

ERO Drill Participation



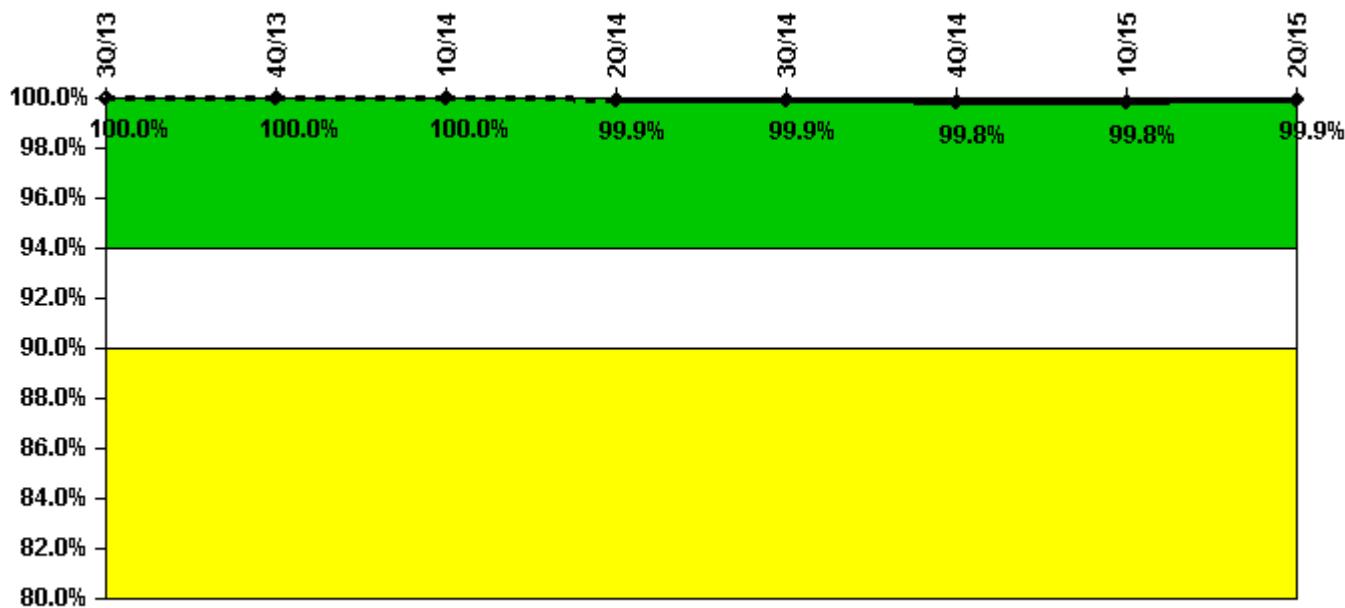
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Participating Key personnel	118.0	118.0	120.0	118.0	123.0	128.0	133.0	134.0
Total Key personnel	118.0	118.0	120.0	118.0	123.0	128.0	133.0	134.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



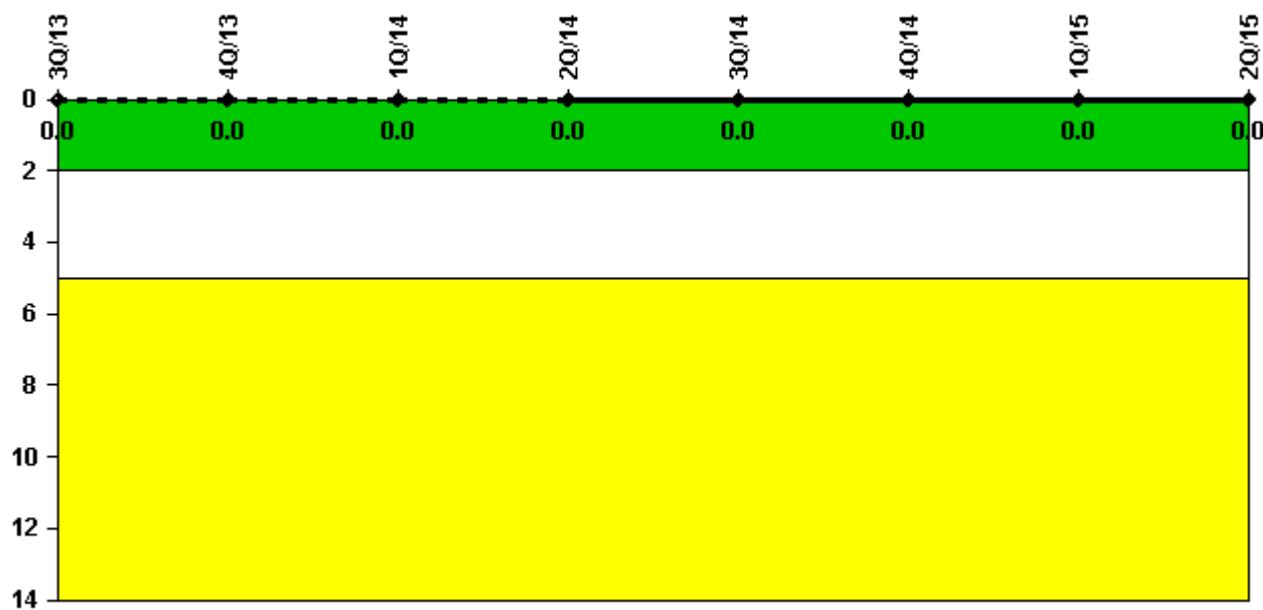
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful siren-tests	1120	1120	1119	1116	1119	1187	1050	1119
Total sirens-tests	1120	1120	1120	1119	1120	1190	1050	1119
Indicator value	100.0%	100.0%	100.0%	99.9%	99.9%	99.8%	99.8%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



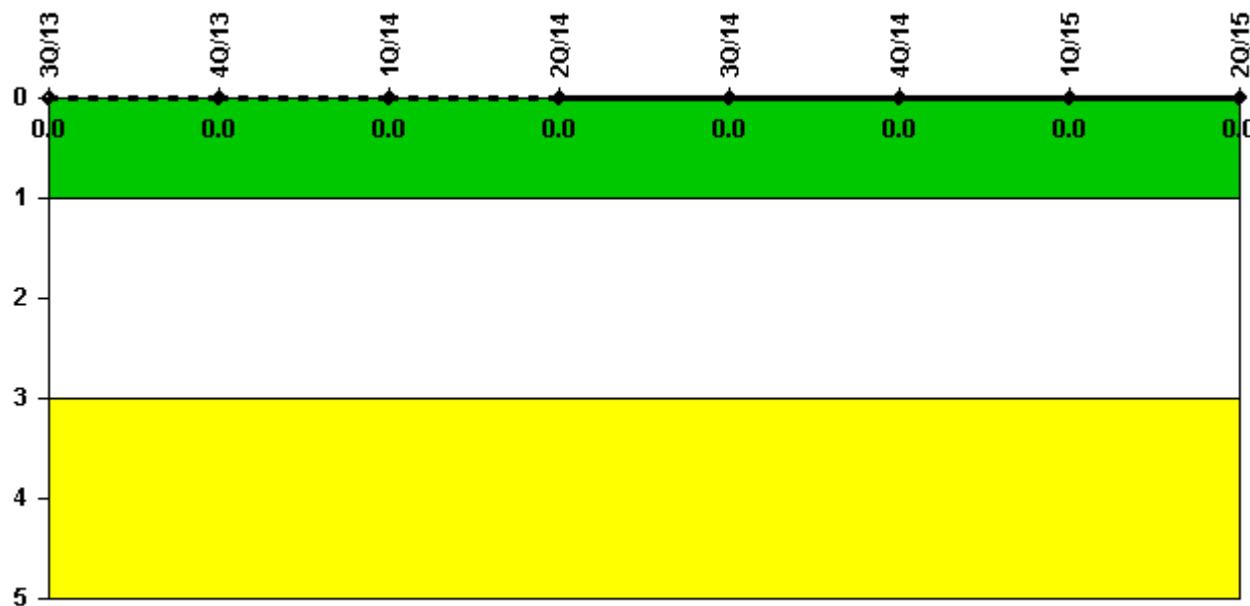
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

 [Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

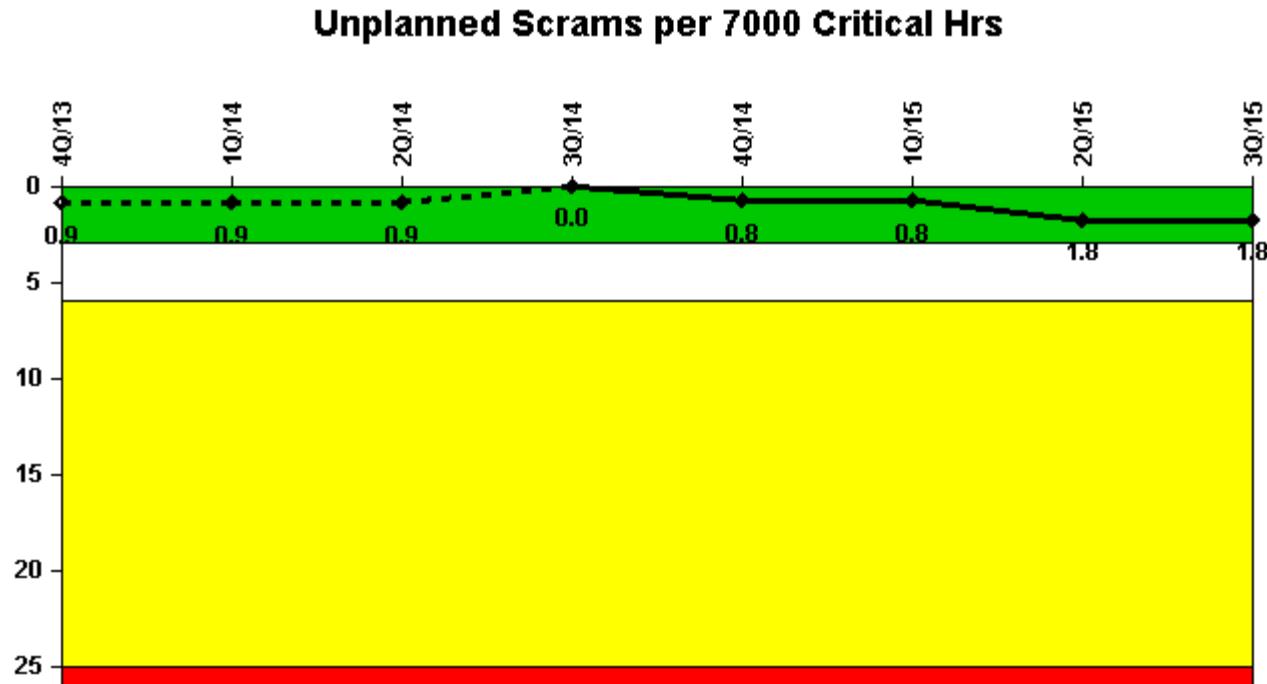
Last Modified: July 24, 2015

D.C. Cook 2

3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none



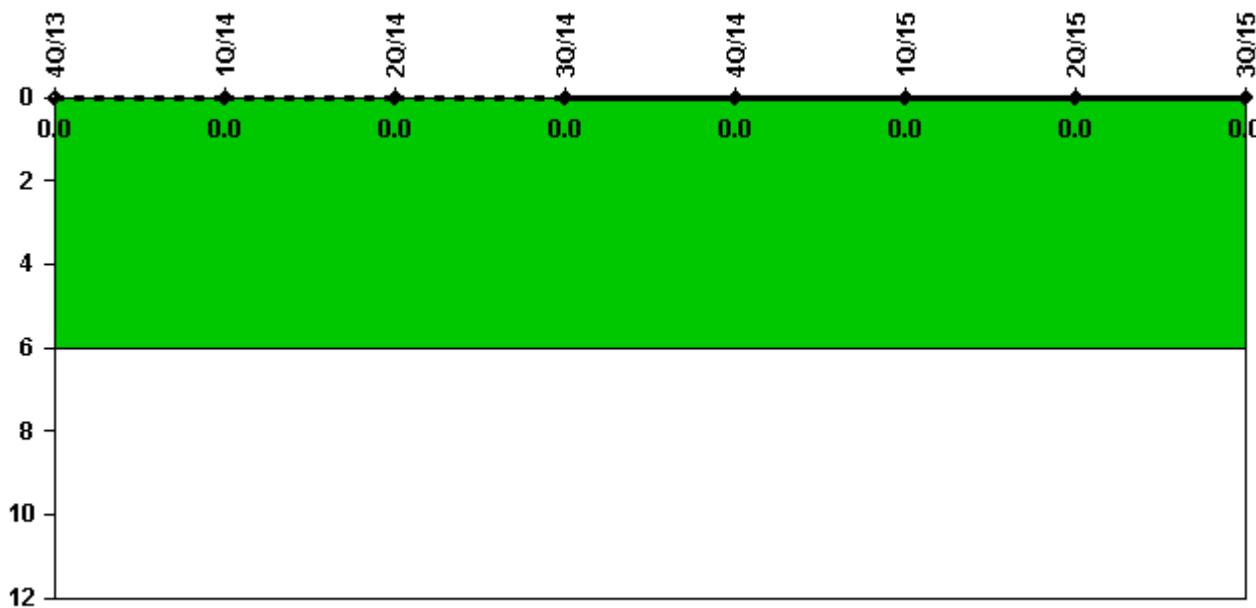
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned scrams	0	0	0	0	1.0	0	1.0	0
Critical hours	1238.6	2159.0	2184.0	2208.0	1975.7	1991.0	1552.2	2208.0
Indicator value	0.9	0.9	0.9	0	0.8	0.8	1.8	1.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



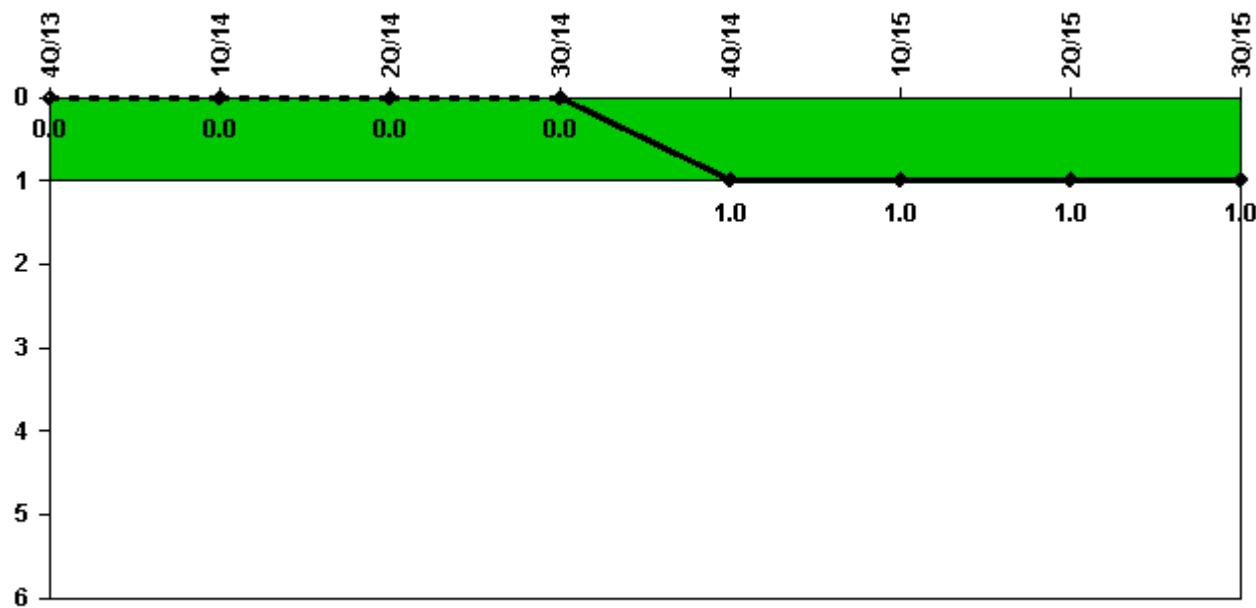
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1238.6	2159.0	2184.0	2208.0	1975.7	1991.0	1552.2	2208.0
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



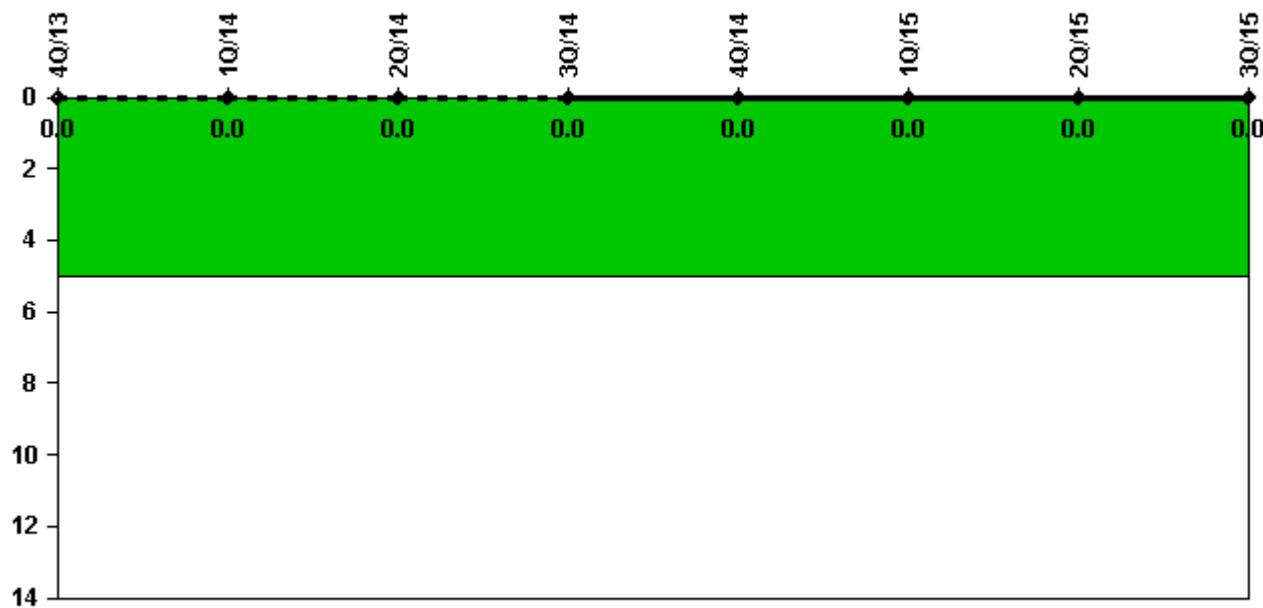
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Scrams with complications	0	0	0	0	1.0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Safety System Functional Failures (PWR)



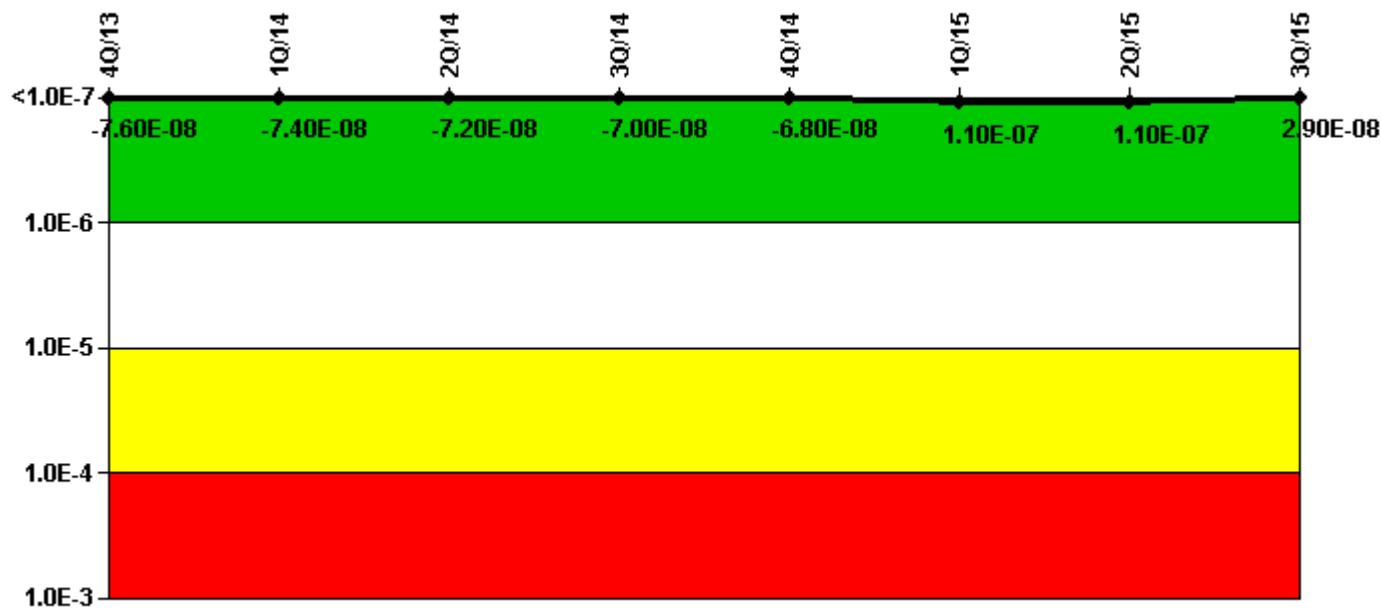
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	-2.54E-10	-2.69E-10	2.45E-10	3.29E-10	4.27E-10	4.20E-10	-1.54E-10	-5.74E-09
URI (Δ CDF)	-7.56E-08	-7.41E-08	-7.25E-08	-7.00E-08	-6.83E-08	1.13E-07	1.13E-07	3.47E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.60E-08	-7.40E-08	-7.20E-08	-7.00E-08	-6.80E-08	1.10E-07	1.10E-07	2.90E-08

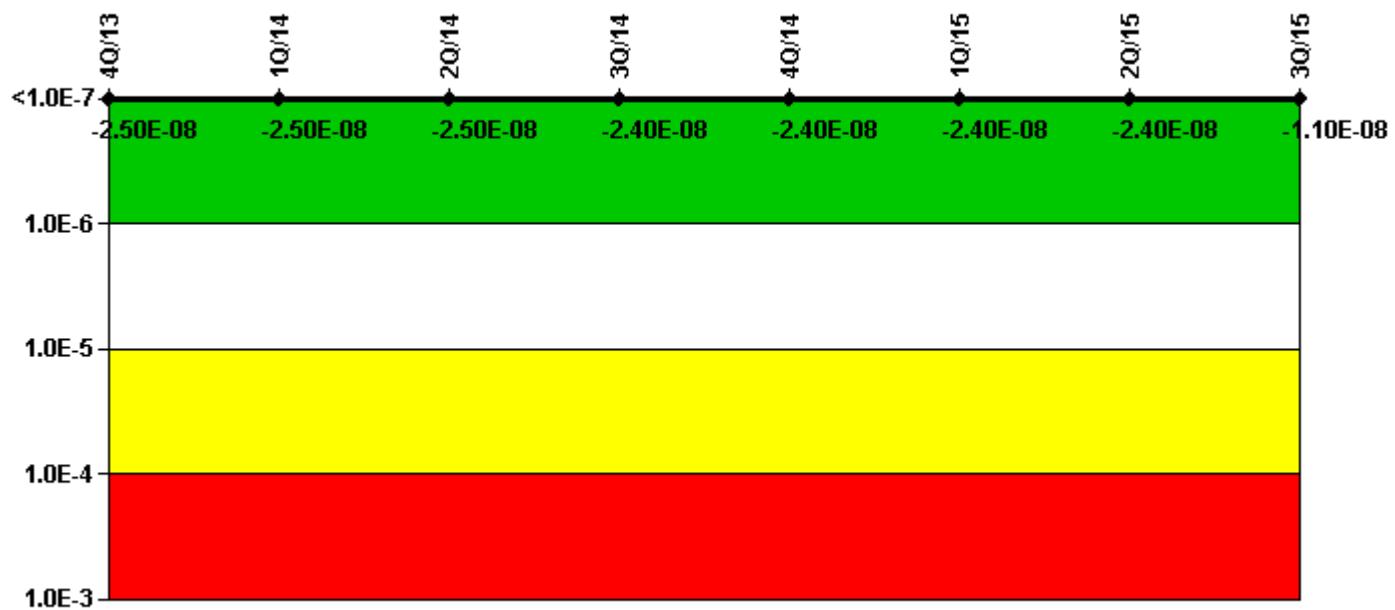
Licensee Comments:

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Revised MSPI Basis Document to update Emergency Diesel Generator Load Run Test Demand estimates.

4Q/13: Revised MSPI basis document to update Emergency Diesel Generator run hour estimates to exclude the run hours associated with (1) the first hour of run time after breaker closure and (2) unloaded run hours. This change does not affect the "color" of this indicator from 1st Quarter 2012 to present.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

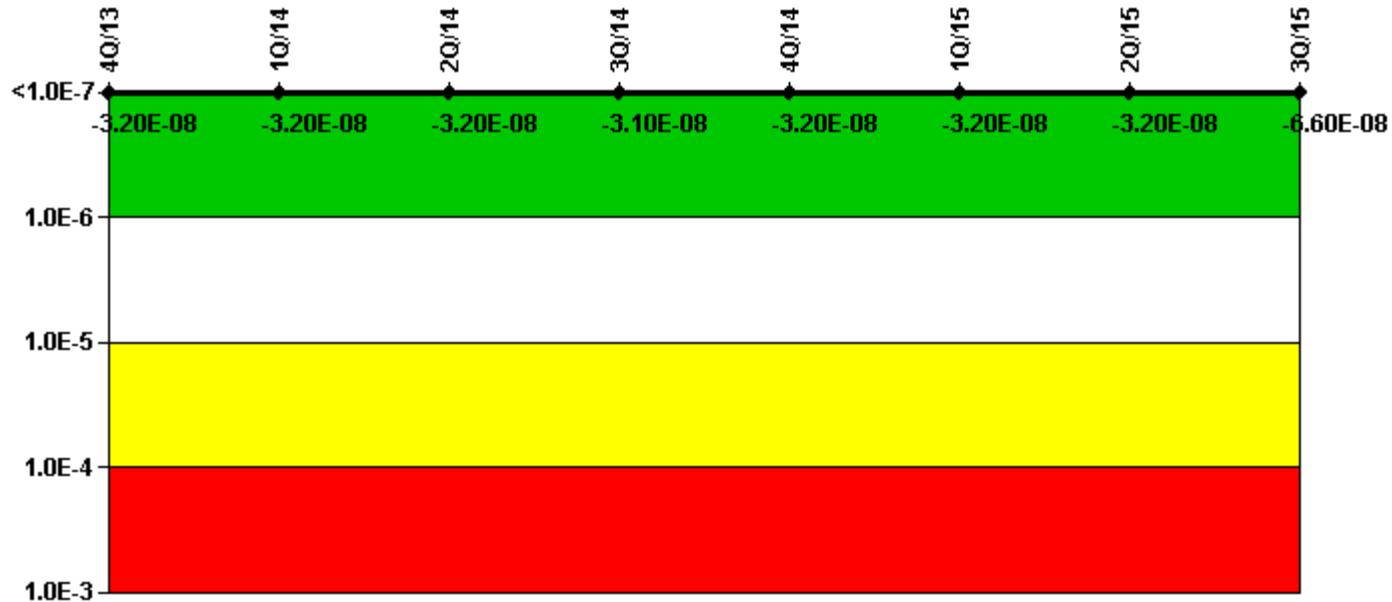
Mitigating Systems Performance Index, High Pressure Injection System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	-2.66E-11	-2.66E-11	-2.66E-11	-2.12E-11	-2.11E-11	-2.11E-11	-2.11E-11	-1.43E-09
URI (Δ CDF)	-2.54E-08	-2.54E-08	-2.54E-08	-2.39E-08	-2.39E-08	-2.39E-08	-2.39E-08	-9.11E-09
PLE	NO							
Indicator value	-2.50E-08	-2.50E-08	-2.50E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	-1.10E-08

Licensee Comments:

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

2Q/14: The High Pressure Injection System MS07 data has been corrected to include an additional 16.62 hours of unavailability for Unit 2 A East CCP Train that were not reported in the 2Q14 submittal. This data change did not result in a change to the indicator color.

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

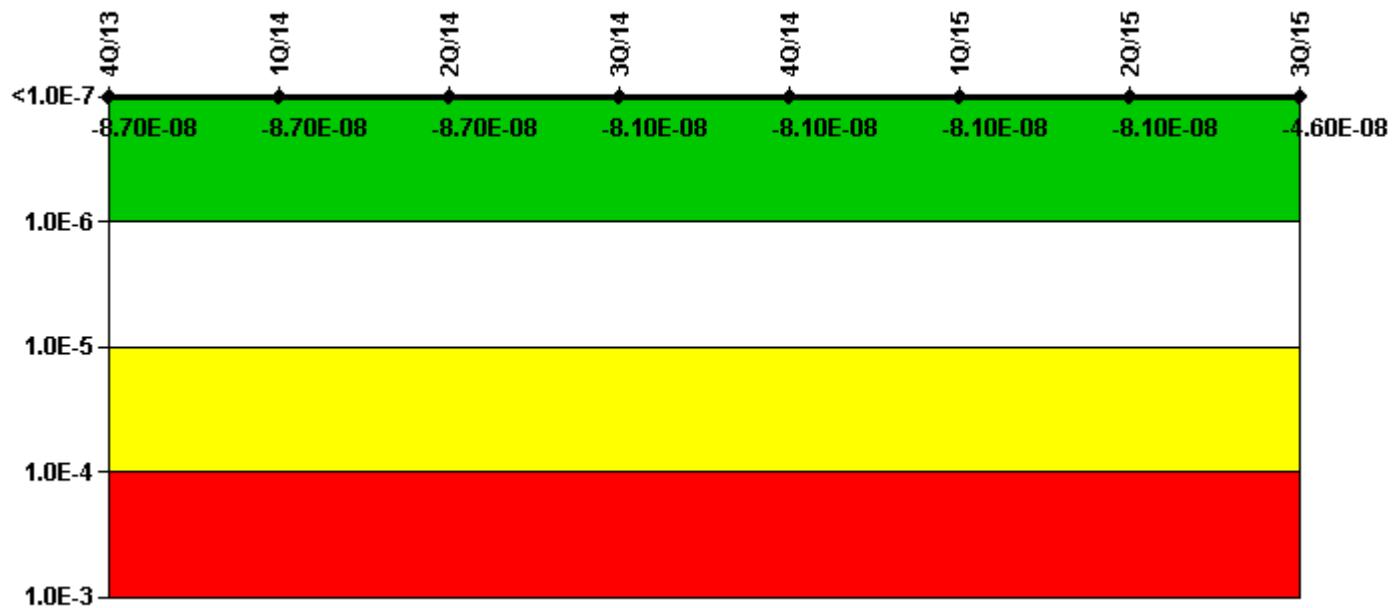
Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	-1.34E-11	-1.34E-11	8.06E-12	1.64E-11	1.79E-11	8.84E-12	-1.34E-11	-1.45E-08
URI (Δ CDF)	-3.23E-08	-3.23E-08	-3.23E-08	-3.15E-08	-3.23E-08	-3.23E-08	-3.23E-08	-5.15E-08
PLE	NO							
Indicator value	-3.20E-08	-3.20E-08	-3.20E-08	-3.10E-08	-3.20E-08	-3.20E-08	-3.20E-08	-6.60E-08

Licensee Comments:

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

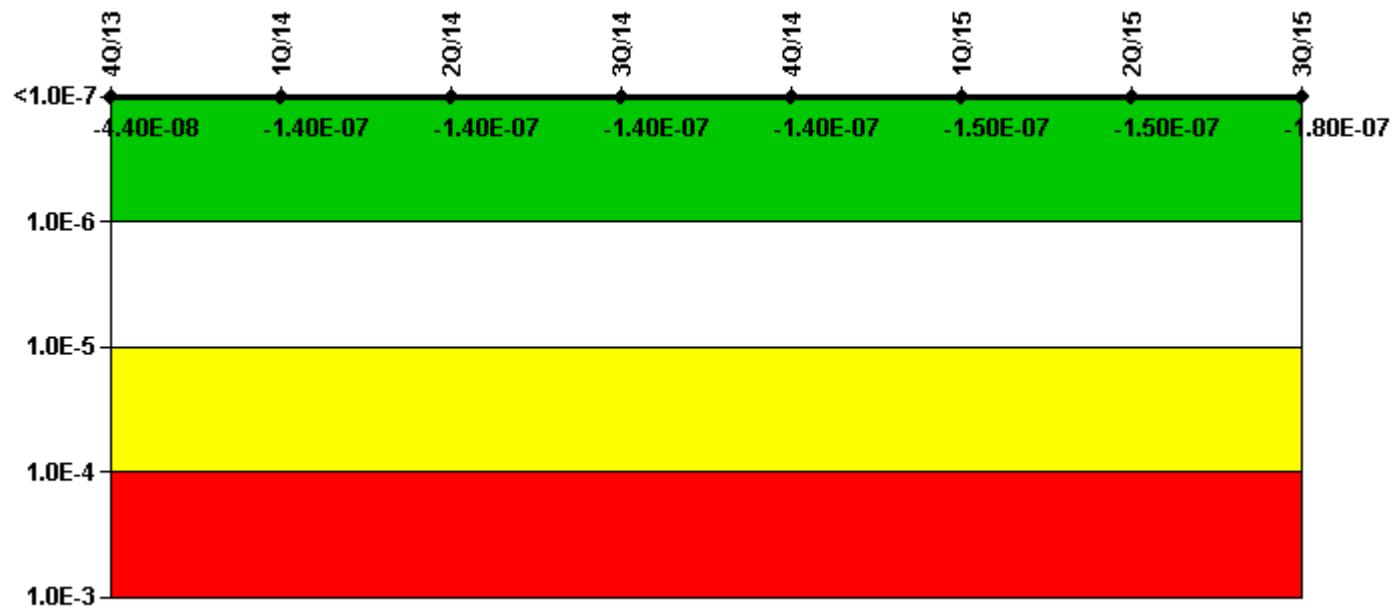
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	-3.23E-13	-3.23E-13	-2.16E-13	7.55E-13	7.84E-13	7.46E-13	4.76E-13	-2.83E-09
URI (Δ CDF)	-8.69E-08	-8.69E-08	-8.69E-08	-8.12E-08	-8.12E-08	-8.12E-08	-8.12E-08	-4.35E-08
PLE	NO							
Indicator value	-8.70E-08	-8.70E-08	-8.70E-08	-8.10E-08	-8.10E-08	-8.10E-08	-8.10E-08	-4.60E-08

Licensee Comments:

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised. The RHR scope of monitored components was revised. 1/2-CMO-419 and 1/2-CMO-429, RHR Heat Exchanger CCW Outlet Valves, are now included in the scope of monitored components based on their Birnbaum importance. 1/2-ICM-311 and 1/2-ICM-321, RHR Pump Discharge MOVs, are removed from the scope of monitored components since they do not have an active safety function modeled in the PRA.

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

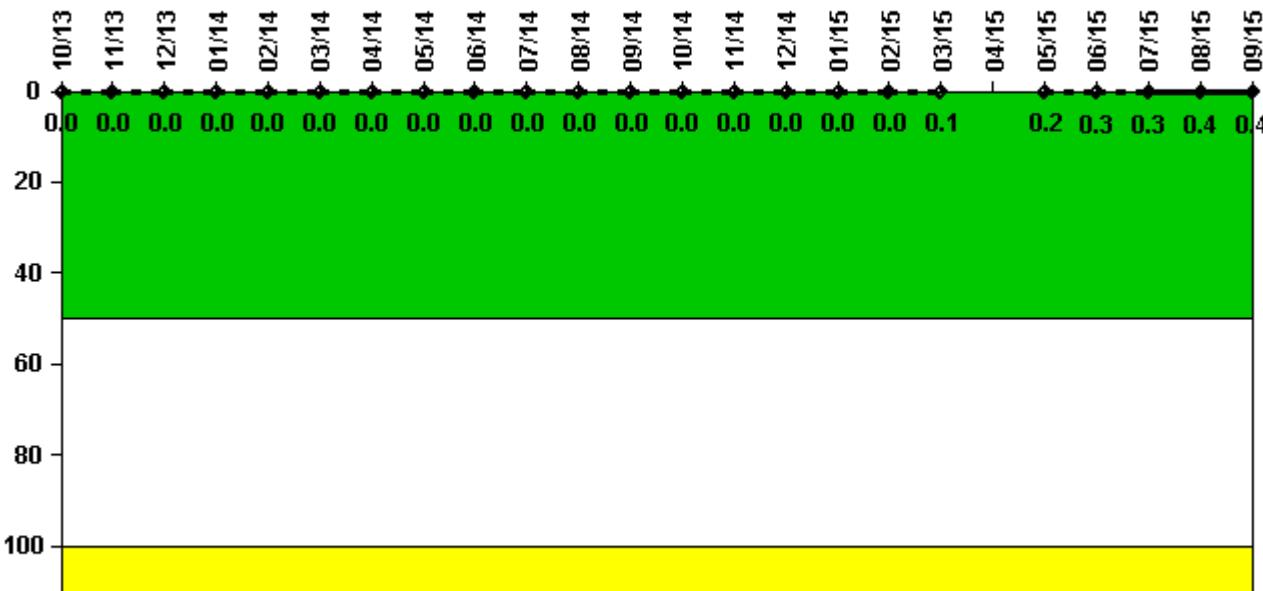
Mitigating Systems Performance Index, Cooling Water Systems	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	1.17E-12	-3.82E-11	-3.82E-11	-3.78E-11	-3.46E-11	-5.33E-11	-5.34E-11	-8.51E-08
URI (Δ CDF)	-4.36E-08	-1.40E-07	-1.40E-07	-1.39E-07	-1.39E-07	-1.48E-07	-1.49E-07	-9.27E-08
PLE	NO							
Indicator value	-4.40E-08	-1.40E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.80E-07

Licensee Comments:

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

1Q/15: The MSPI Basis Document was updated in the 4th Quarter 2014 to reflect 2009 PRA model of record error that the PRA model incorrectly removed cutsets associated with failure of the CCW heat exchanger CCW outlet valves (2-CMO-410 & 420) opening from model results. As a result, these valves have been incorporated in the Unit 2 Cooling Water System scope of monitored components.

Reactor Coolant System Activity



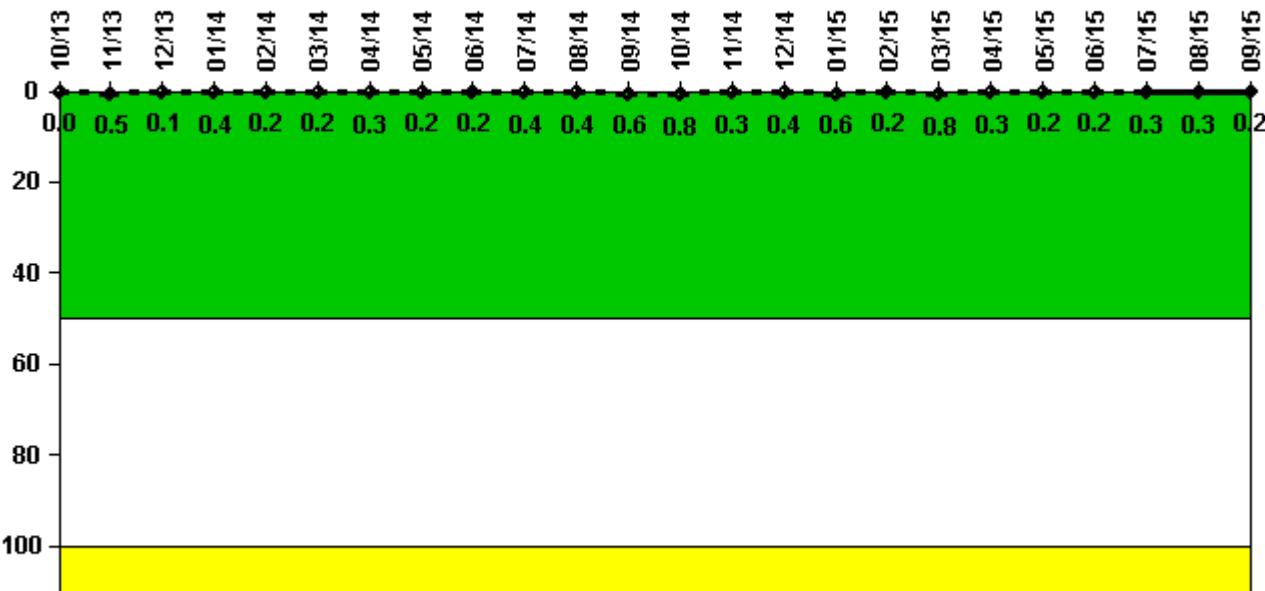
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum activity	0.000164	0.000068	0.000090	0.000095	0.000099	0.000102	0.000115	0.000111	0.000114	0.000121	0.000125	0.000127
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum activity	0.000131	0.000137	0.000162	0.000145	0.000149	0.000197	N/A	0.000662	0.001160	0.001090	0.001290	0.001420
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0	0	0	0.1	N/A	0.2	0.3	0.3	0.4	0.4

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

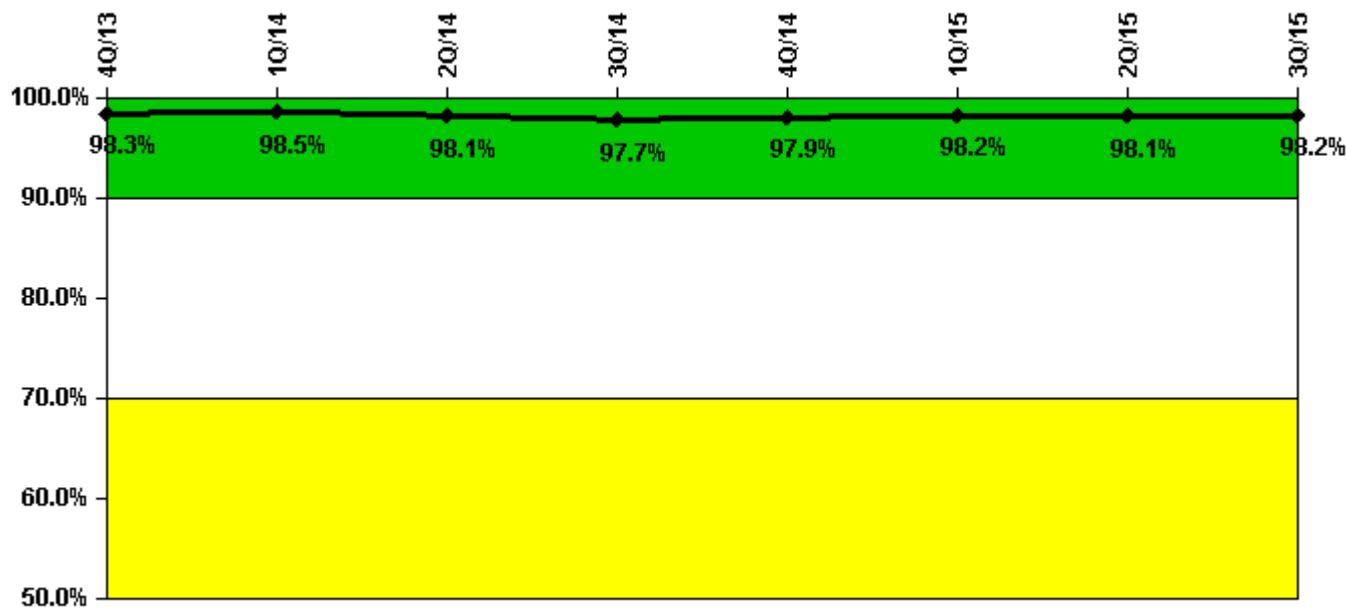
Notes

Reactor Coolant System Leakage	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum leakage	0	0.052	0.010	0.045	0.026	0.024	0.028	0.023	0.024	0.039	0.048	0.071
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0	0.5	0.1	0.4	0.2	0.2	0.3	0.2	0.2	0.4	0.4	0.6

Reactor Coolant System Leakage	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum leakage	0.084	0.028	0.041	0.064	0.025	0.085	0.037	0.024	0.023	0.028	0.031	0.018
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.8	0.3	0.4	0.6	0.2	0.8	0.3	0.2	0.2	0.3	0.3	0.2

Licensee Comments: none

Drill/Exercise Performance



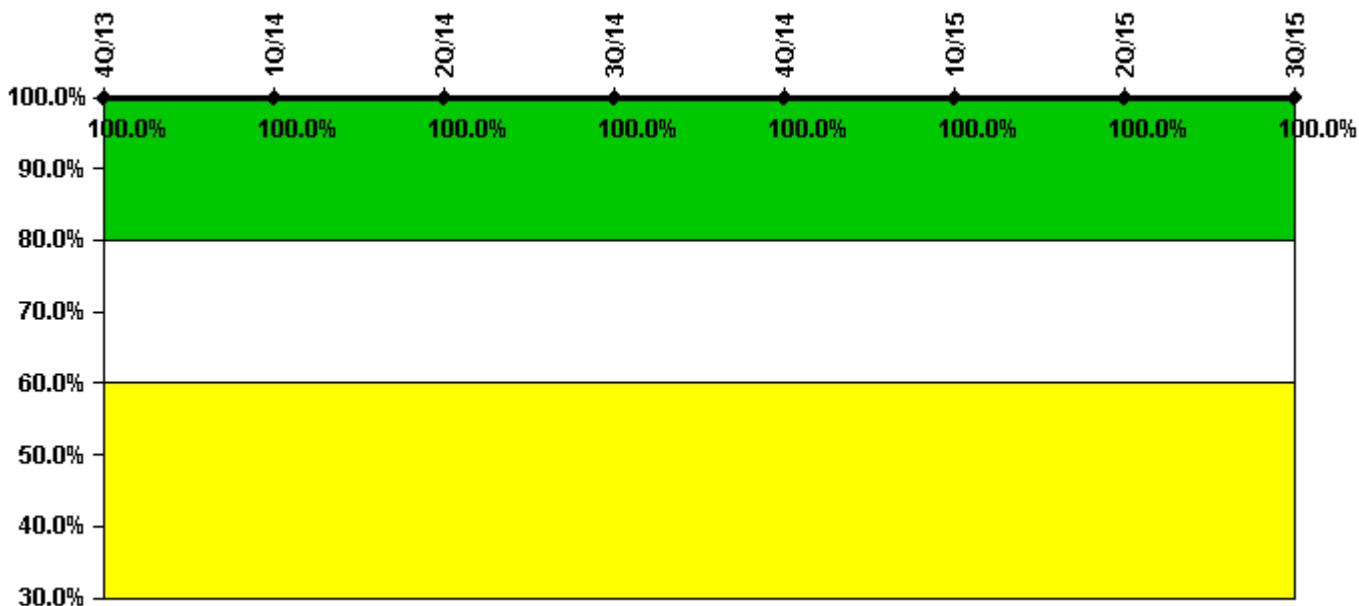
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful opportunities	0	55.0	23.0	59.0	56.0	68.0	12.0	62.0
Total opportunities	0	56.0	25.0	61.0	56.0	69.0	12.0	62.0
Indicator value	98.3%	98.5%	98.1%	97.7%	97.9%	98.2%	98.1%	98.2%

Licensee Comments: none

ERO Drill Participation



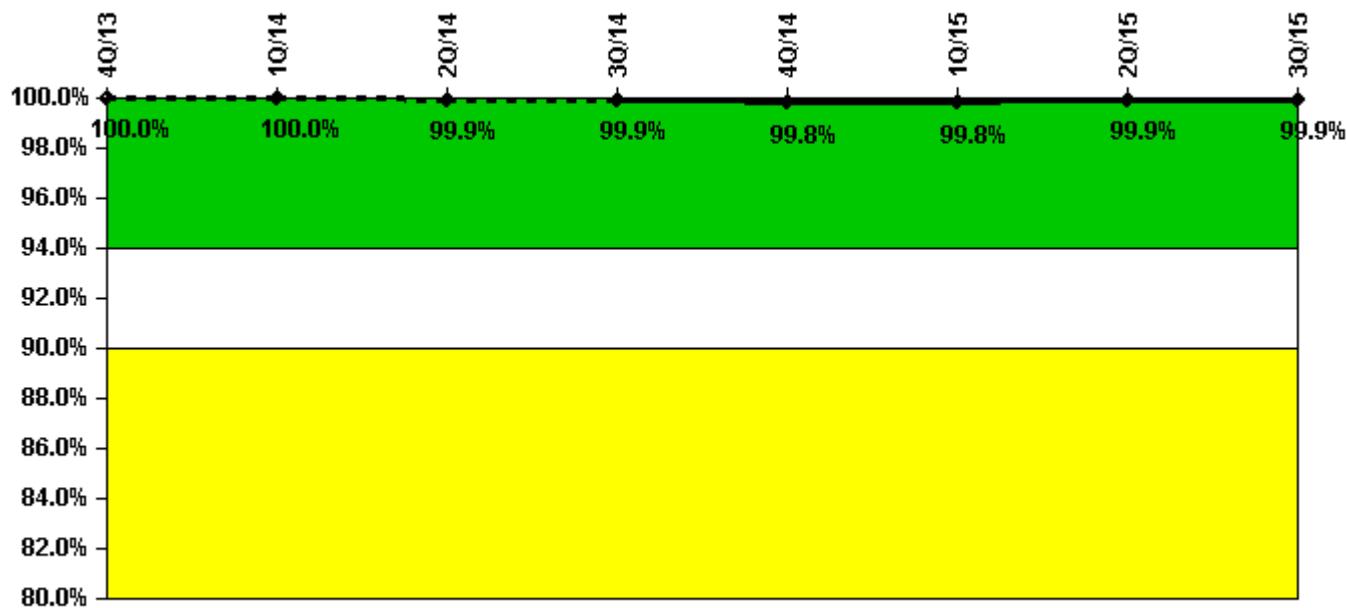
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Participating Key personnel	118.0	120.0	118.0	123.0	128.0	133.0	134.0	132.0
Total Key personnel	118.0	120.0	118.0	123.0	128.0	133.0	134.0	132.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



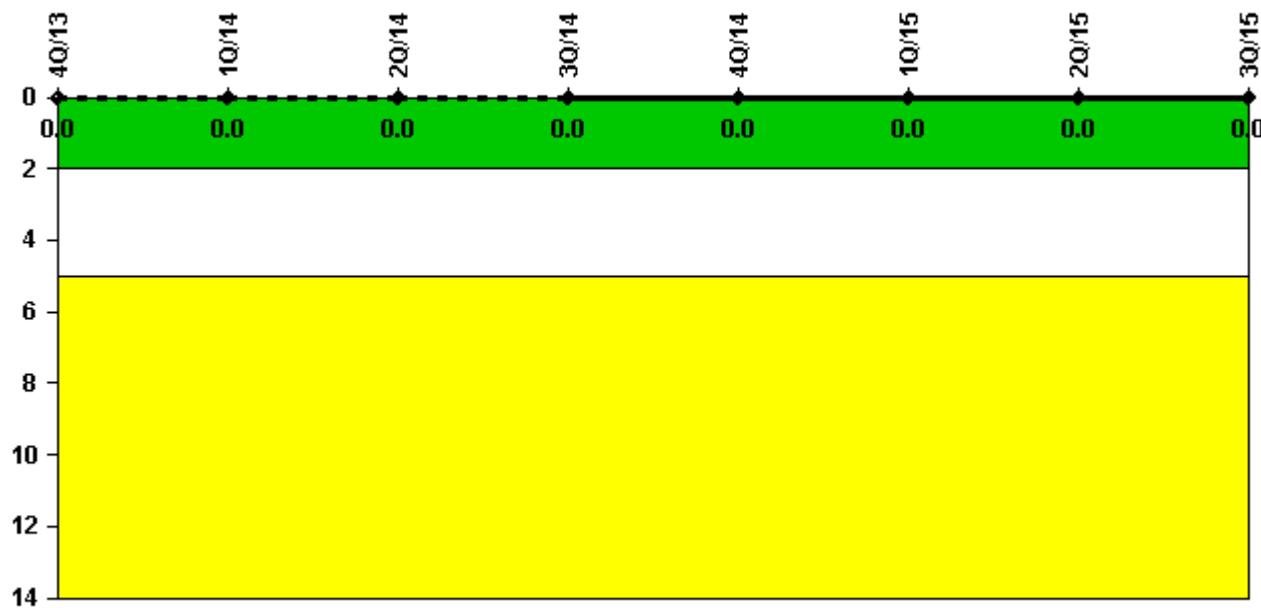
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful siren-tests	1120	1119	1116	1119	1187	1050	1119	1190
Total sirens-tests	1120	1120	1119	1120	1190	1050	1119	1190
Indicator value	100.0%	100.0%	99.9%	99.9%	99.8%	99.8%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



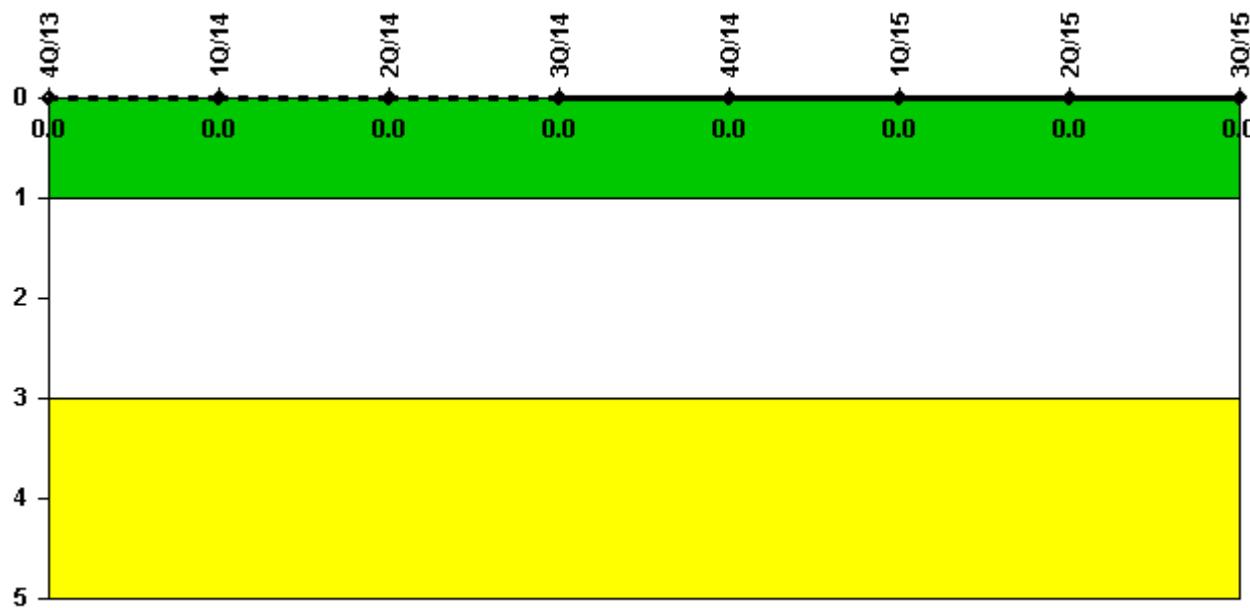
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

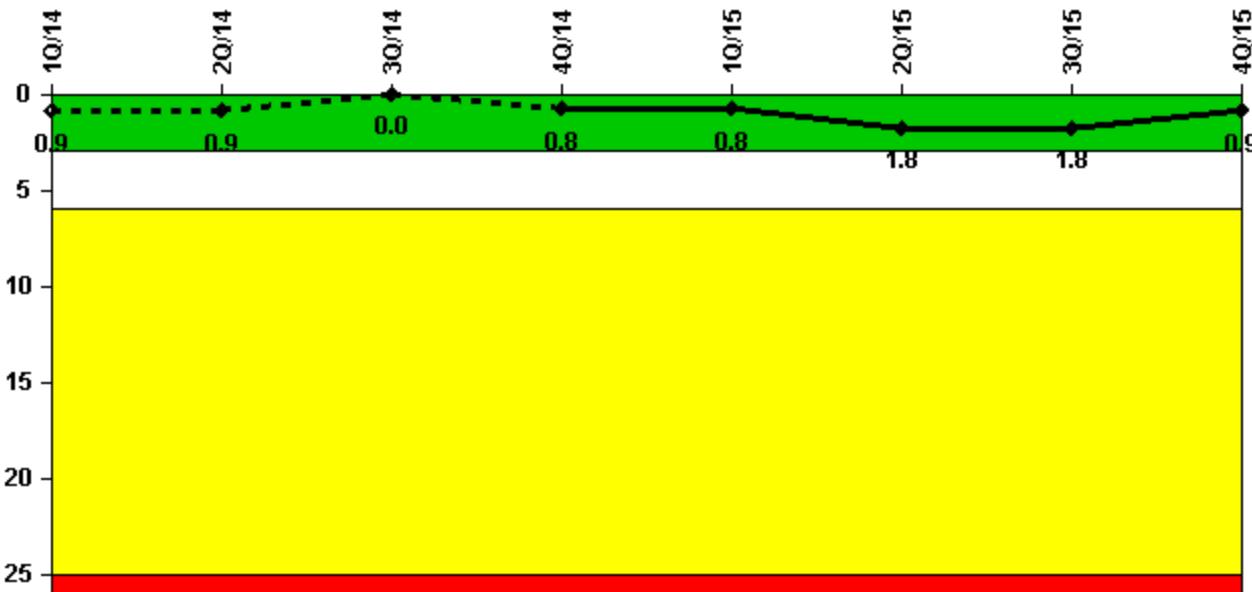
 [Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: December 15, 2015

D.C. Cook 2**4Q/2015 Performance Indicators**

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

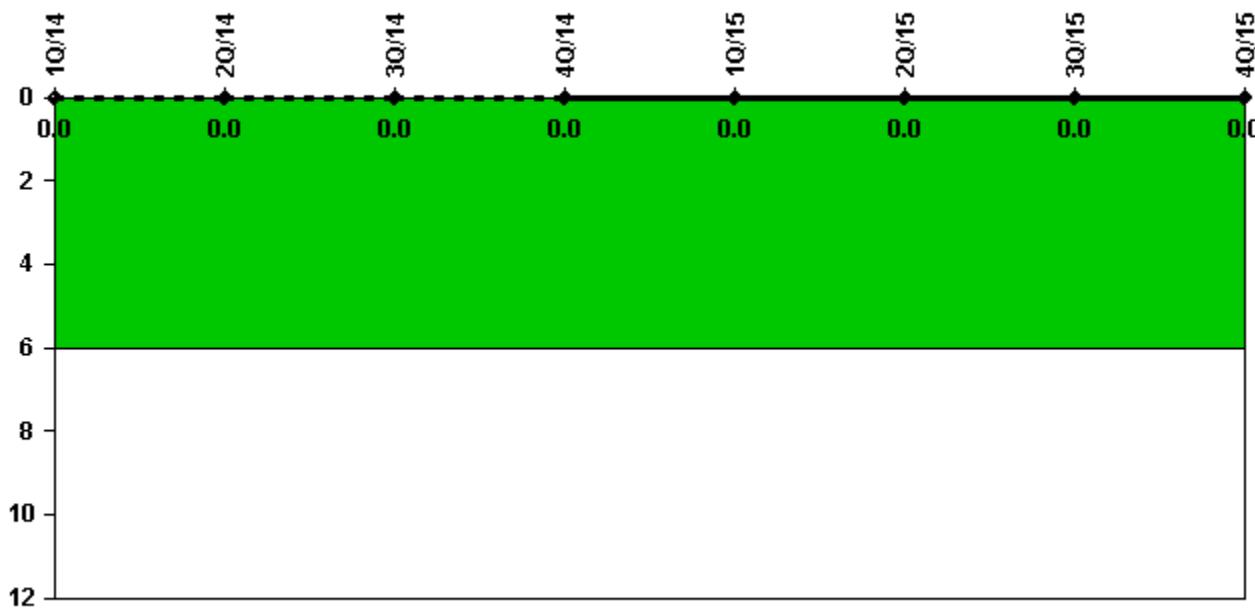
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned scrams	0	0	0	1.0	0	1.0	0	0
Critical hours	2159.0	2184.0	2208.0	1975.7	1991.0	1552.2	2208.0	2209.0
Indicator value	0.9	0.9	0	0.8	0.8	1.8	1.8	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



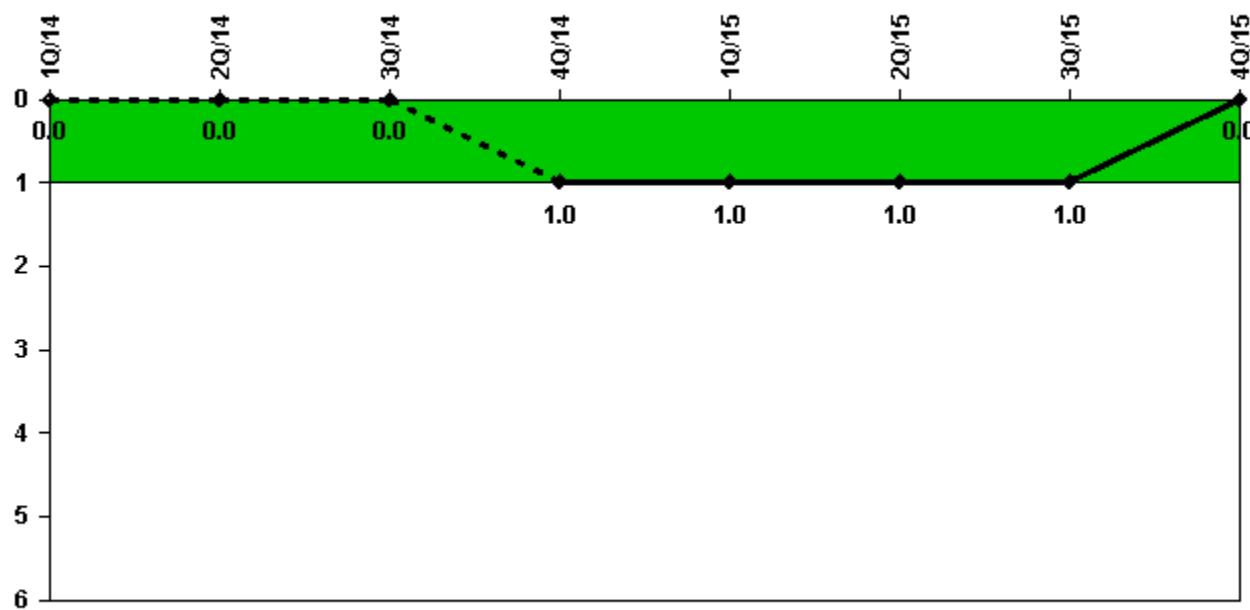
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	1975.7	1991.0	1552.2	2208.0	2209.0
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



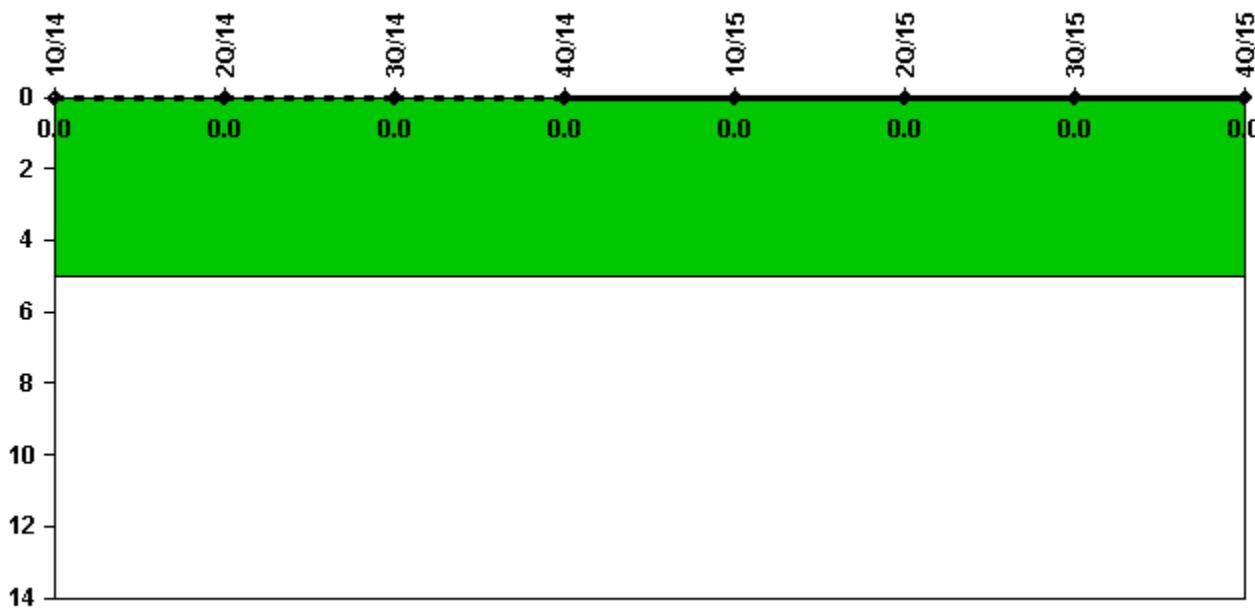
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Scrams with complications	0	0	0	1.0	0	0	0	0
Indicator value	0.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



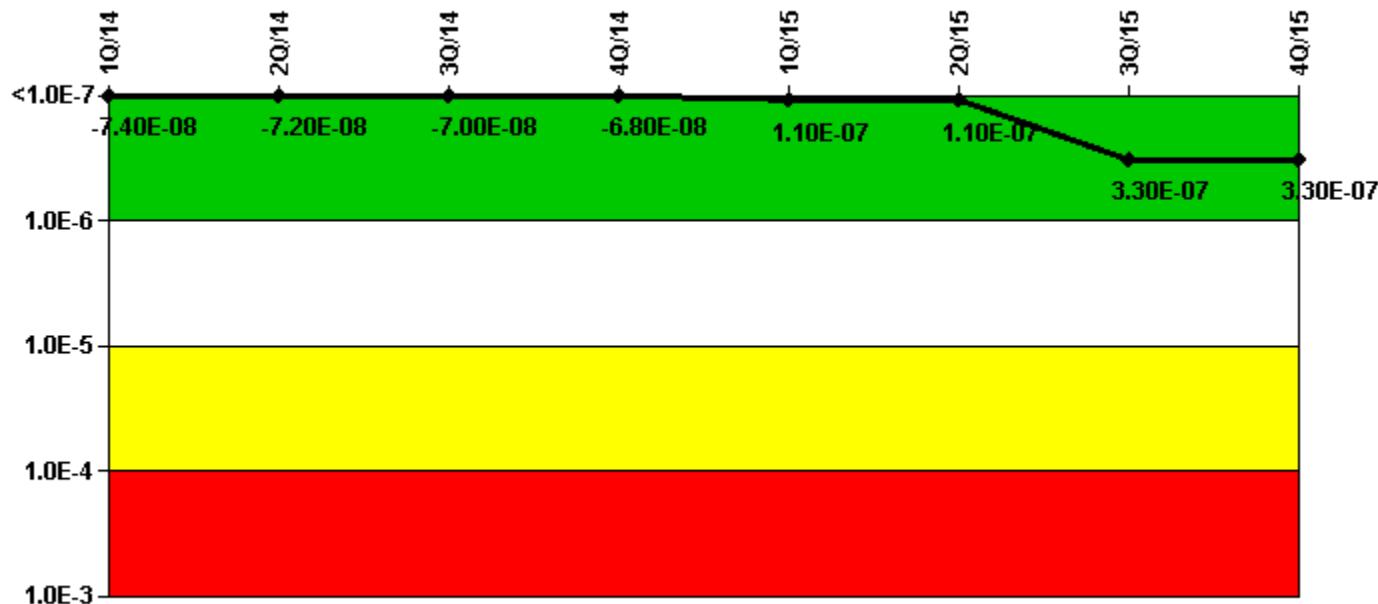
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	-2.69E-10	2.45E-10	3.29E-10	4.27E-10	4.20E-10	-1.54E-10	-5.74E-09	-1.81E-09
URI (Δ CDF)	-7.41E-08	-7.25E-08	-7.00E-08	-6.83E-08	1.13E-07	1.13E-07	3.36E-07	3.36E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.40E-08	-7.20E-08	-7.00E-08	-6.80E-08	1.10E-07	1.10E-07	3.30E-07	3.30E-07

Licensee Comments:

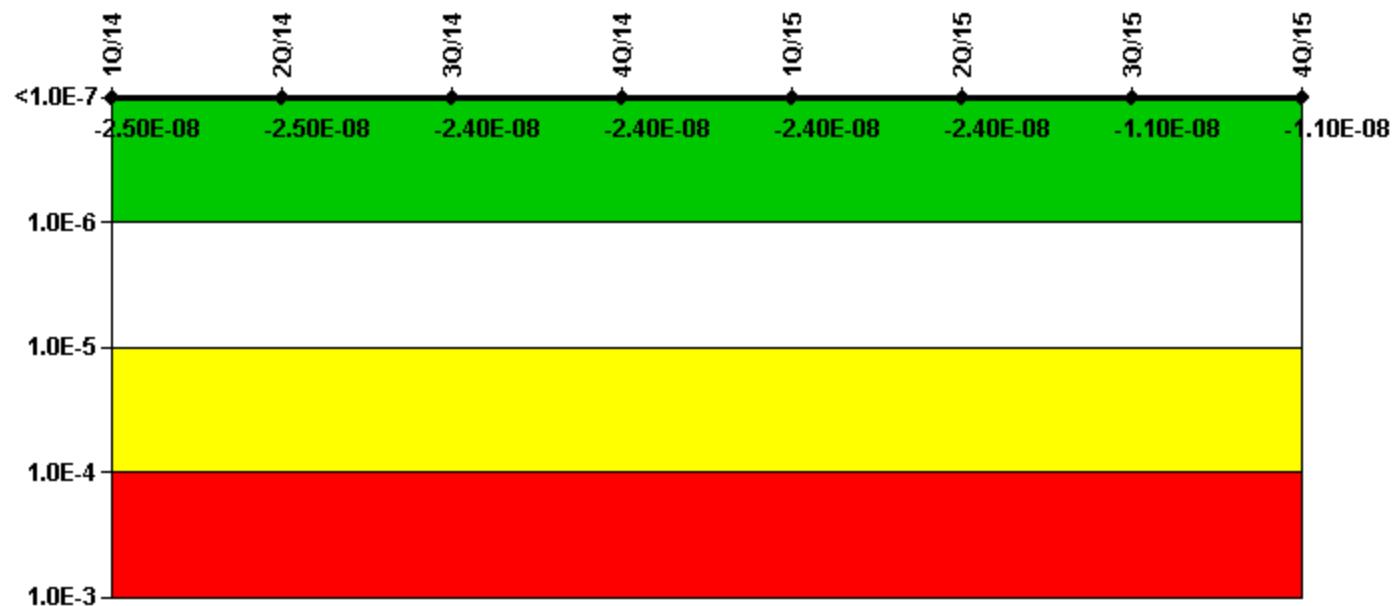
4Q/15: Changed PRA Parameter(s). An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). Data entry errors were identified in the third quarter 2015 MSPI Parameter update for Unit 2 Emergency AC Power following submittal. As a result, the FVURC and URPC values for 2-OME-150-AB (2AB Emergency Diesel Generator) and the Failure to Run FVURC value for 2-OME-150-CD (2CD Emergency Diesel Generator) were revised for the third quarter 2015. The Unit 2 EAC MSPI color remained green following this change.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Revised MSPI Basis Document to update Emergency Diesel Generator Load Run Test Demand estimates.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	-2.66E-11	-2.66E-11	-2.12E-11	-2.11E-11	-2.11E-11	-2.11E-11	-1.43E-09	-1.43E-09
URI (Δ CDF)	-2.54E-08	-2.54E-08	-2.39E-08	-2.39E-08	-2.39E-08	-2.39E-08	-9.11E-09	-9.11E-09
PLE	NO							
Indicator value	-2.50E-08	-2.50E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	-1.10E-08	-1.10E-08

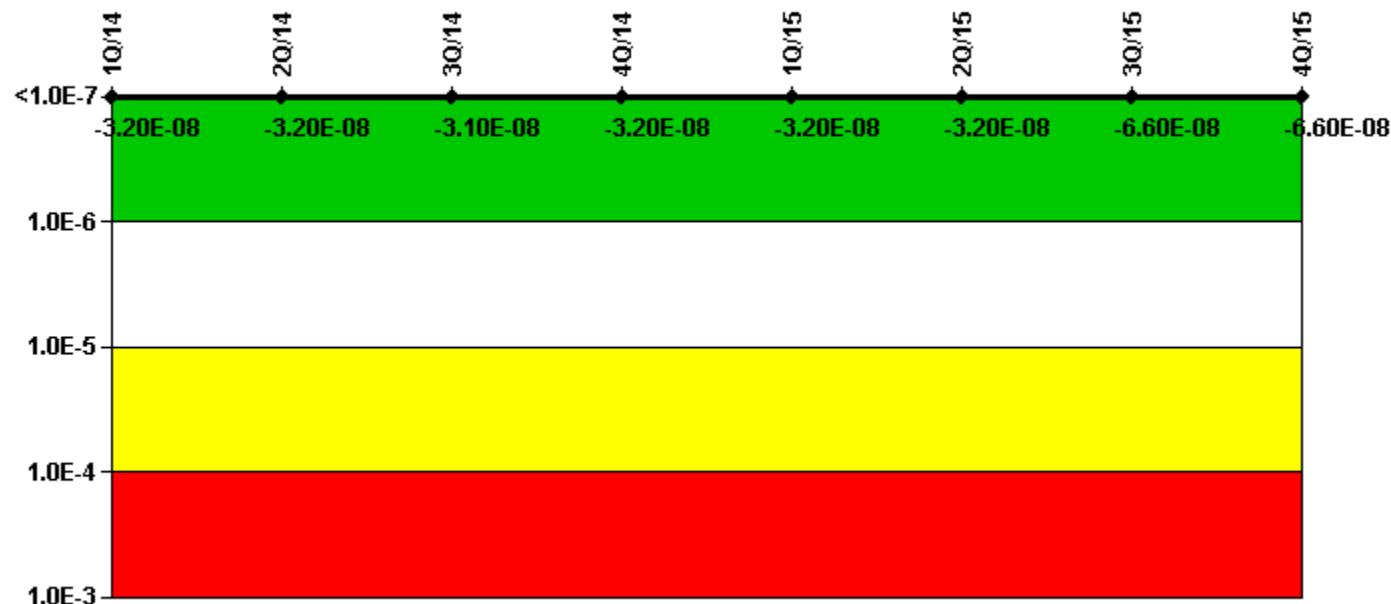
Licensee Comments:

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

2Q/14: The High Pressure Injection System MS07 data has been corrected to include an additional 16.62 hours of unavailability for Unit 2 A East CCP Train that were not reported in the 2Q14 submittal. This data change did not result in a change to the indicator color.

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	-1.34E-11	8.06E-12	1.64E-11	1.79E-11	8.84E-12	-1.34E-11	-1.45E-08	-1.45E-08
URI (Δ CDF)	-3.23E-08	-3.23E-08	-3.15E-08	-3.23E-08	-3.23E-08	-3.23E-08	-5.15E-08	-5.15E-08

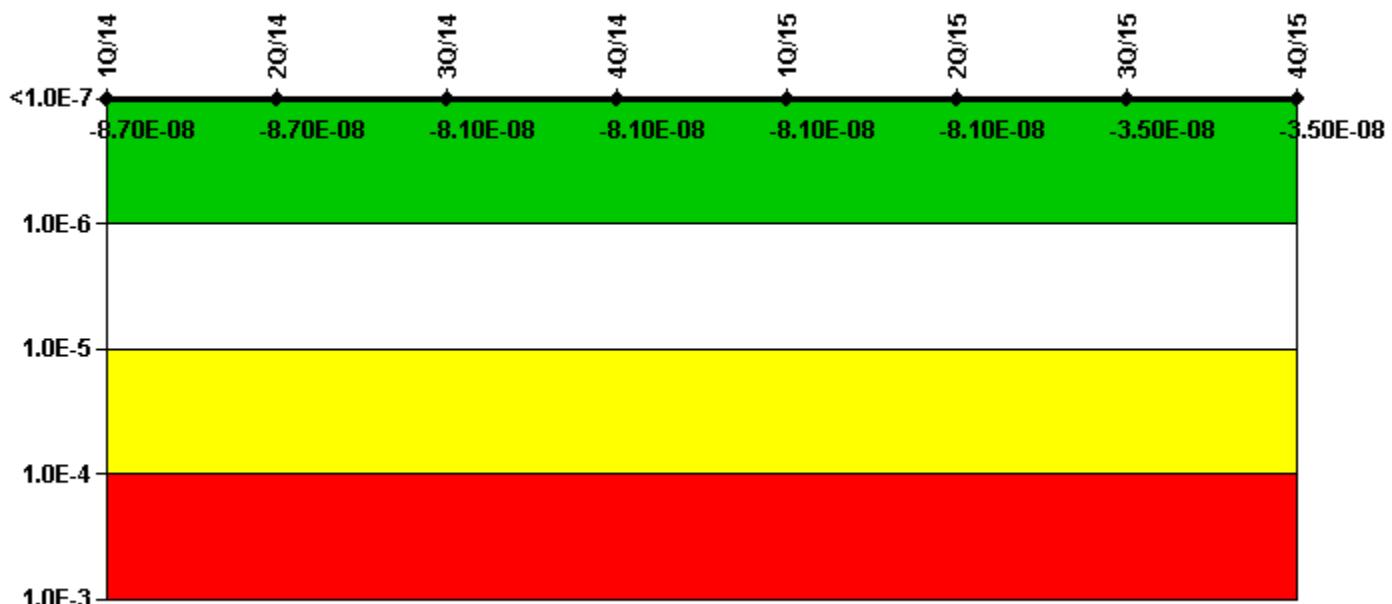
PLE	NO							
Indicator value	-3.20E-08	-3.20E-08	-3.10E-08	-3.20E-08	-3.20E-08	-3.20E-08	-6.60E-08	-6.60E-08

Licensee Comments:

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	-3.23E-13	-2.16E-13	7.55E-13	7.84E-13	7.46E-13	4.76E-13	-2.83E-09	-2.83E-09
URI (Δ CDF)	-8.69E-08	-8.69E-08	-8.12E-08	-8.12E-08	-8.12E-08	-8.12E-08	-3.18E-08	-3.22E-08
PLE	NO							
Indicator value	-8.70E-08	-8.70E-08	-8.10E-08	-8.10E-08	-8.10E-08	-8.10E-08	-3.50E-08	-3.50E-08

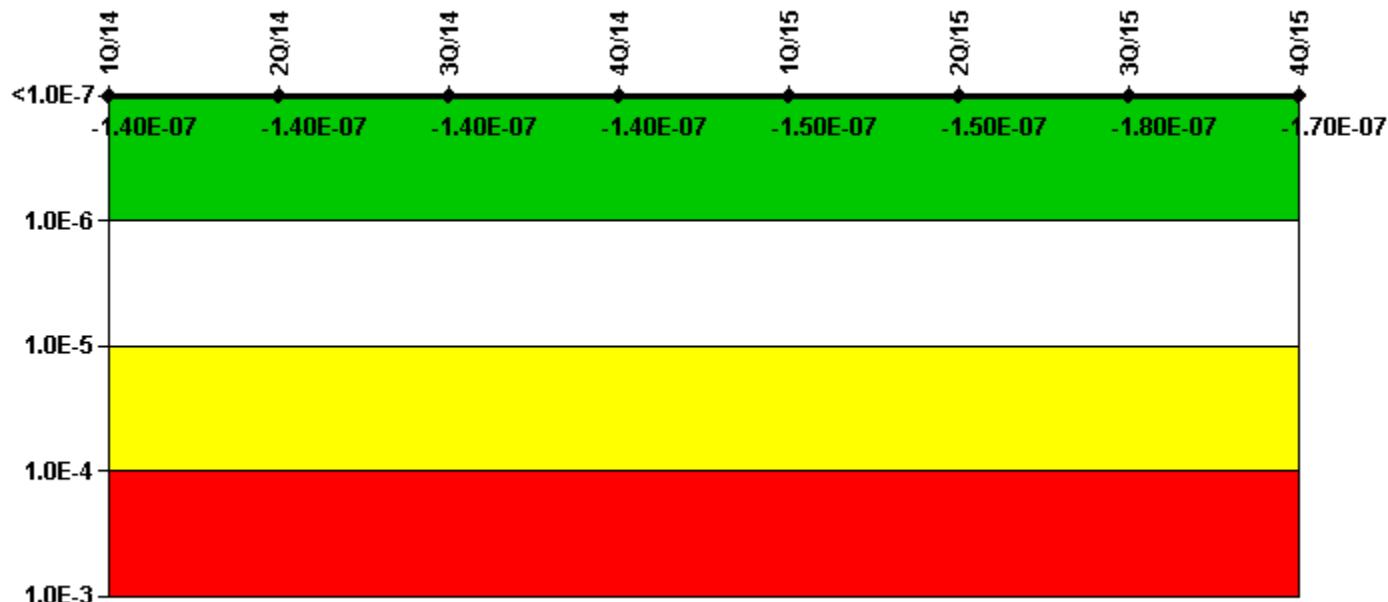
Licensee Comments:

4Q/15: Changed PRA Parameter(s). An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). Data entry errors were identified in the third quarter 2015 MSPI Parameter update for Unit 2 Residual Heat Removal following submittal. As a result, the FVURC and URPC values for 2-ICM-305 (Unit 2 Recirculation Sump to East RHR/CTS Pumps Suction Containment Isolation Valve), the FVURC and URPC values for 2-IMO-390 (Unit 2 Refueling Water Storage Tank TK-33 To Residual Heat Removal Pumps Suction Shutoff Valve), and the Common Cause Factor for 2-CMO-429 (Unit 2 West Residual Heat Removal Heat Exchanger Component Cooling Water outlet Shutoff Valve) were revised for the third quarter 2015. The Unit 2 RHR MSPI color remained green following these changes.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised. The RHR scope of monitored components was revised. 1/2-CMO-419 and 1/2-CMO-429, RHR Heat Exchanger CCW Outlet Valves, are now included in the scope of monitored components based on their Birnbaum importance. 1/2-ICM-311 and 1/2-ICM-321, RHR Pump Discharge MOVs, are removed from the scope of monitored components since they do not have an active safety function modeled in the PRA.

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	-3.82E-11	-3.82E-11	-3.78E-11	-3.46E-11	-5.33E-11	-5.34E-11	-8.51E-08	-8.01E-08
URI (Δ CDF)	-1.40E-07	-1.40E-07	-1.39E-07	-1.39E-07	-1.48E-07	-1.49E-07	-9.27E-08	-9.31E-08
PLE	NO							
Indicator value	-1.40E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.80E-07	-1.70E-07

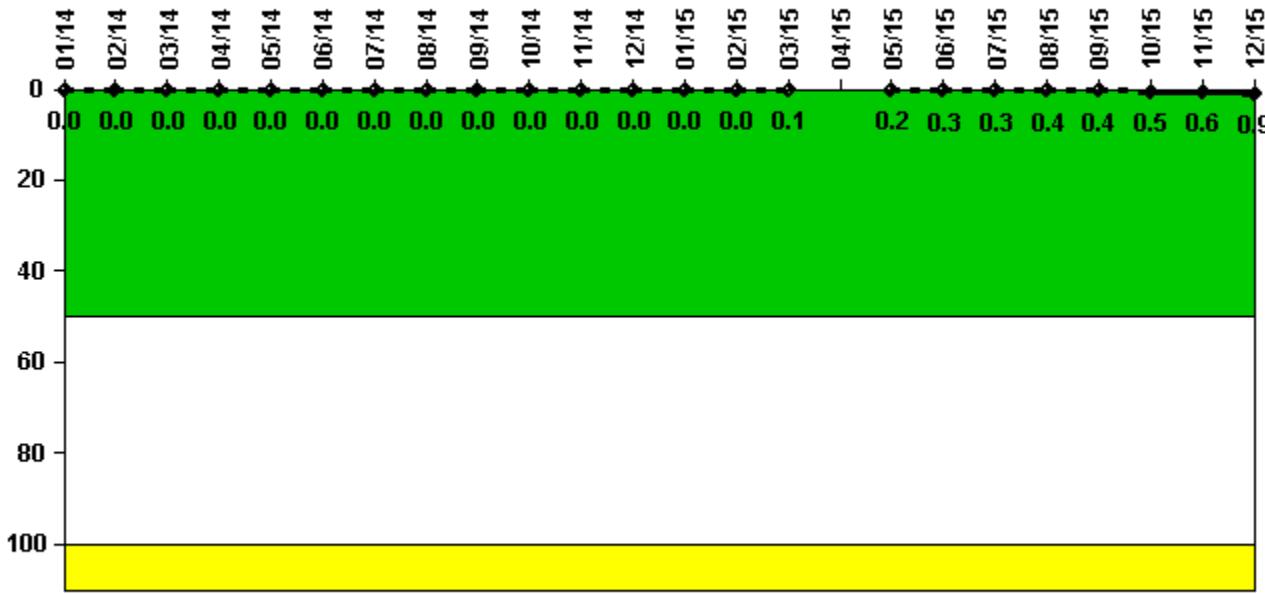
Licensee Comments:

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

1Q/15: The MSPI Basis Document was updated in the 4th Quarter 2014 to reflect 2009 PRA model of record error that the PRA model incorrectly removed cutsets associated with failure of the CCW heat exchanger CCW outlet valves (2-CMO-410 & 420) opening from model results. As a result, these valves have been incorporated in the Unit 2 Cooling Water System scope of monitored components.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

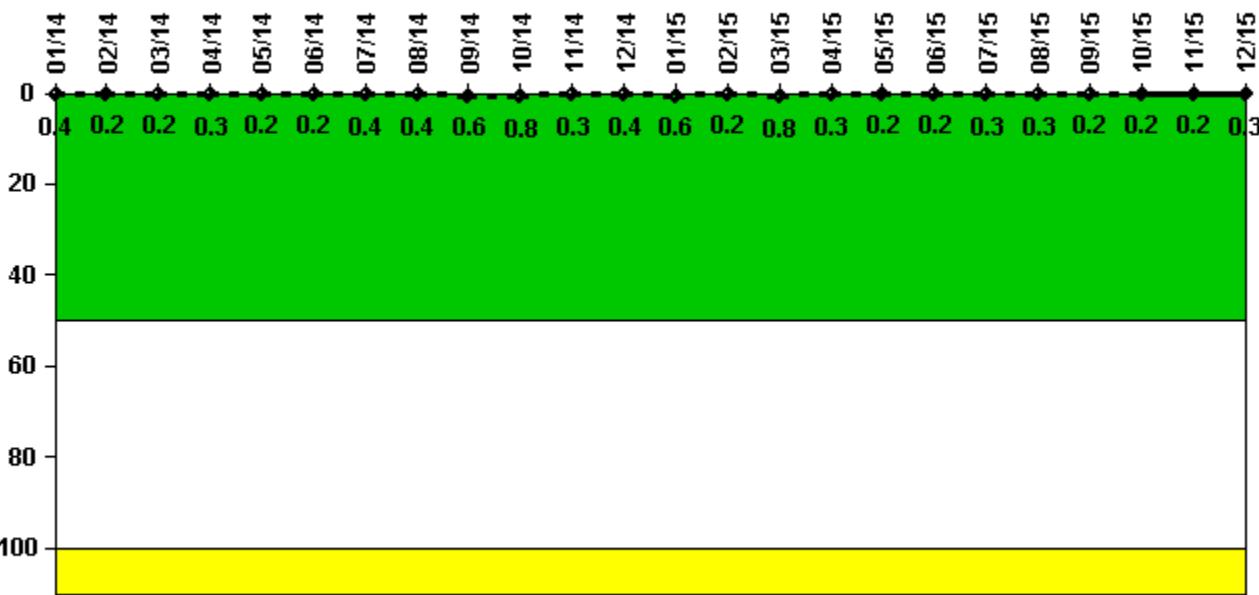
Notes

Reactor Coolant System Activity	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum activity	0.000095	0.000099	0.000102	0.000115	0.000111	0.000114	0.000121	0.000125	0.000127	0.000131	0.000137	0.000162
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum activity	0.000145	0.000149	0.000197	N/A	0.000662	0.001160	0.001090	0.001290	0.001420	0.001750	0.002240	0.003130
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

Indicator value	0	0	0.1	N/A	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.9
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Licensee Comments: none

Reactor Coolant System Leakage



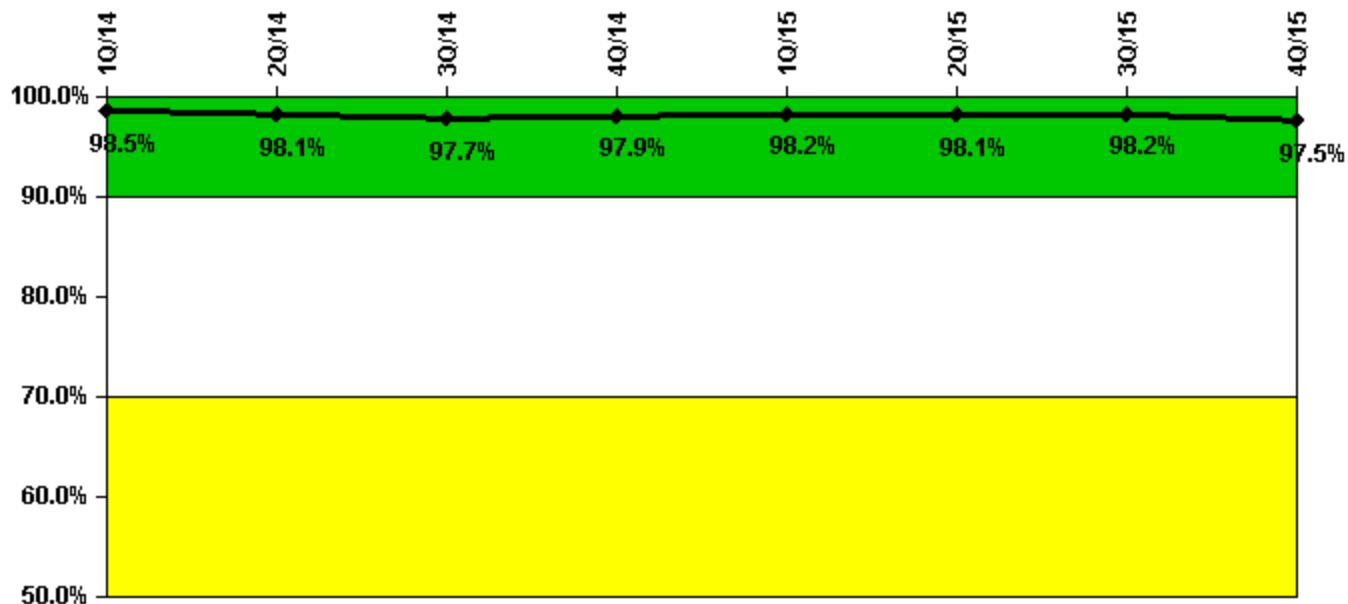
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum leakage	0.045	0.026	0.024	0.028	0.023	0.024	0.039	0.048	0.071	0.084	0.028	0.041
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.4	0.2	0.2	0.3	0.2	0.2	0.4	0.4	0.6	0.8	0.3	0.4
Reactor Coolant System Leakage	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum leakage	0.064	0.025	0.085	0.037	0.024	0.023	0.028	0.031	0.018	0.024	0.022	0.031
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.6	0.2	0.8	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3

Licensee Comments: none

Drill/Exercise Performance



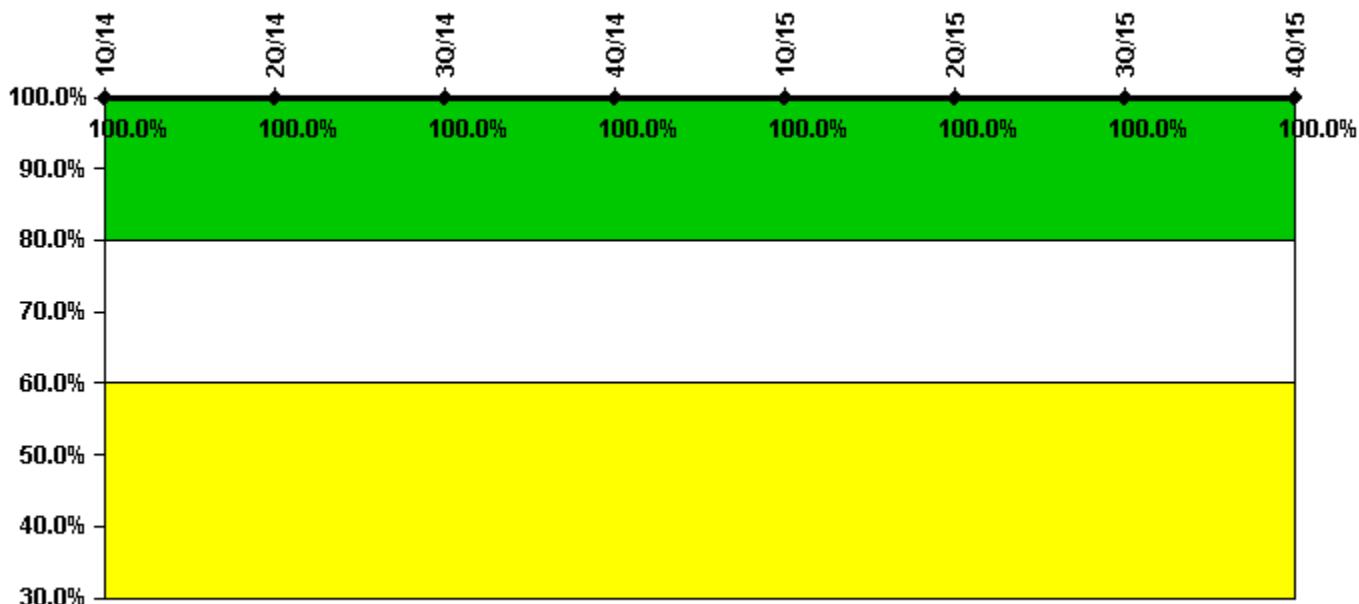
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful opportunities	55.0	23.0	59.0	56.0	68.0	12.0	62.0	56.0
Total opportunities	56.0	25.0	61.0	56.0	69.0	12.0	62.0	60.0
Indicator value	98.5%	98.1%	97.7%	97.9%	98.2%	98.1%	98.2%	97.5%

Licensee Comments: none

ERO Drill Participation



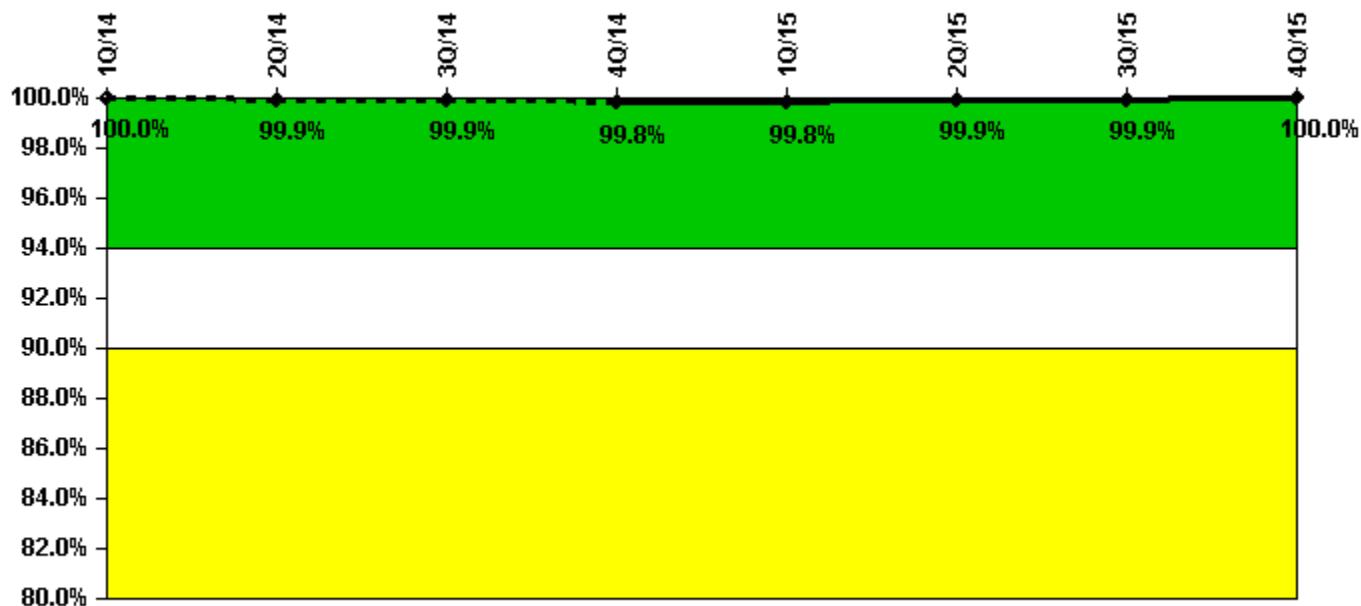
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Participating Key personnel	120.0	118.0	123.0	128.0	133.0	134.0	132.0	132.0
Total Key personnel	120.0	118.0	123.0	128.0	133.0	134.0	132.0	132.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

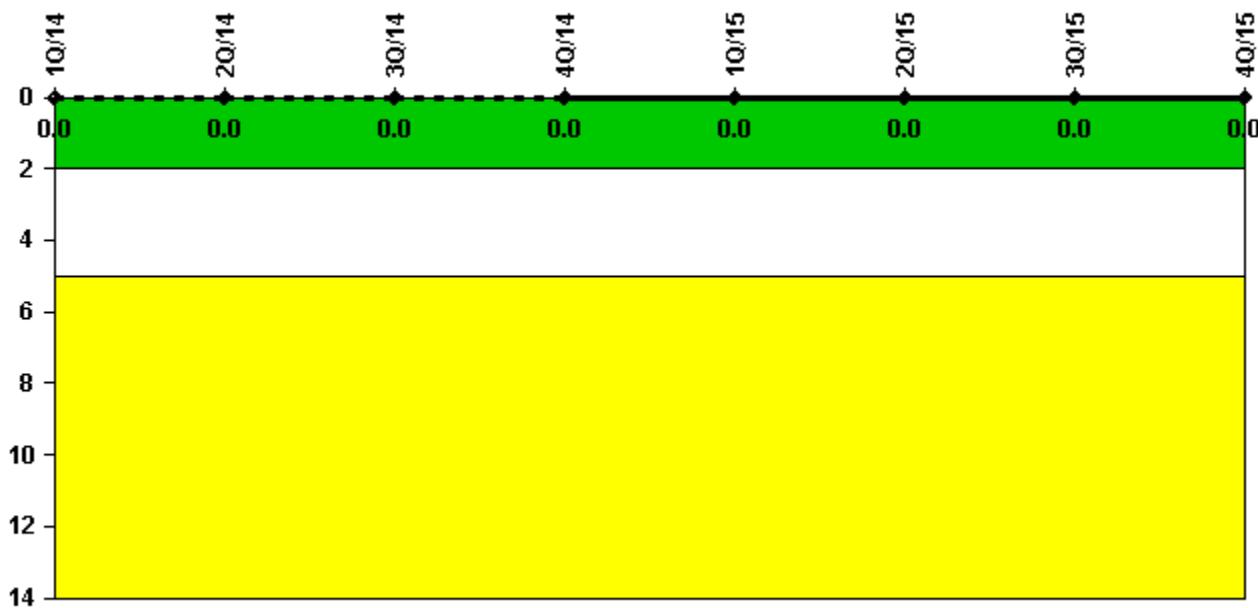
Notes

Alert & Notification System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful siren-tests	1119	1115	1119	1187	1050	1119	1190	1120
Total sirens-tests	1120	1119	1120	1190	1050	1119	1190	1120
Indicator value	100.0%	99.9%	99.9%	99.8%	99.8%	99.9%	99.9%	100.0%

Licensee Comments:

2Q/14: Data entry errors were noted for the June entry for the weekly siren test. ANS was reported as 70/70 and should have been 69/70. The ANS Reliability color remains Green following this change.

Occupational Exposure Control Effectiveness



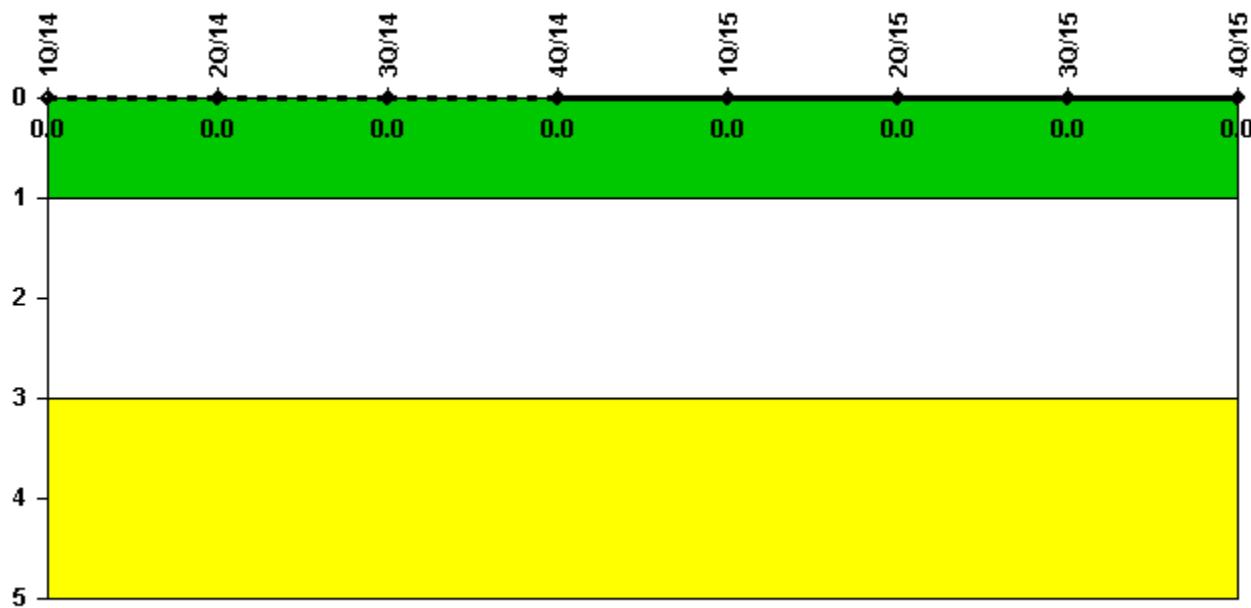
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 1, 2016

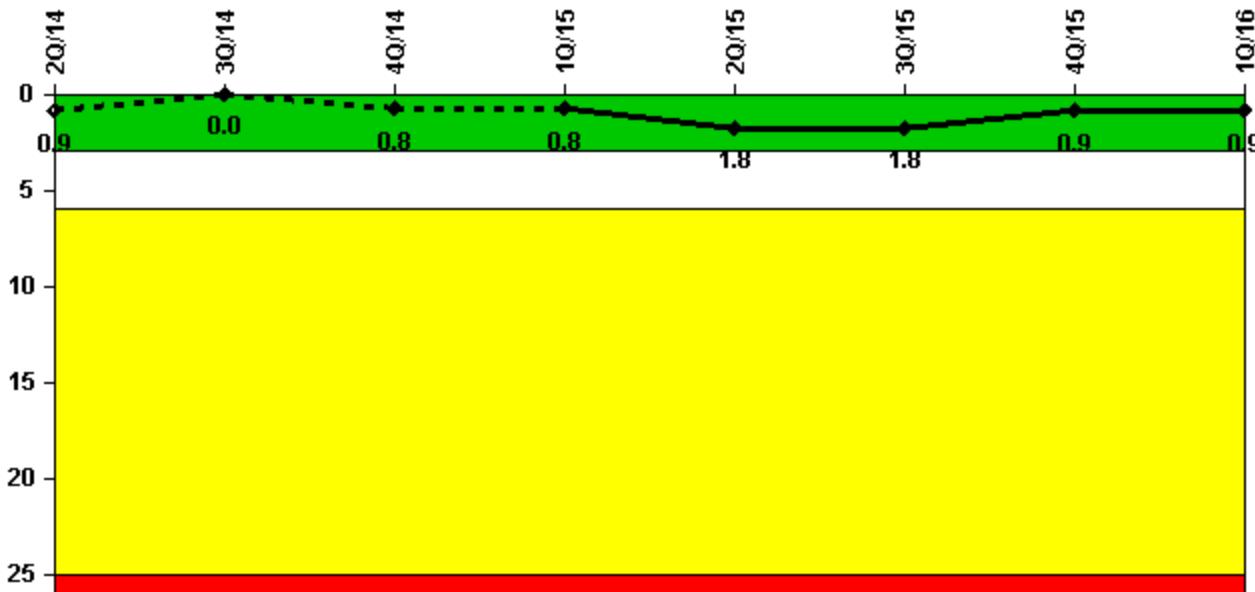
D.C. Cook 2

1Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



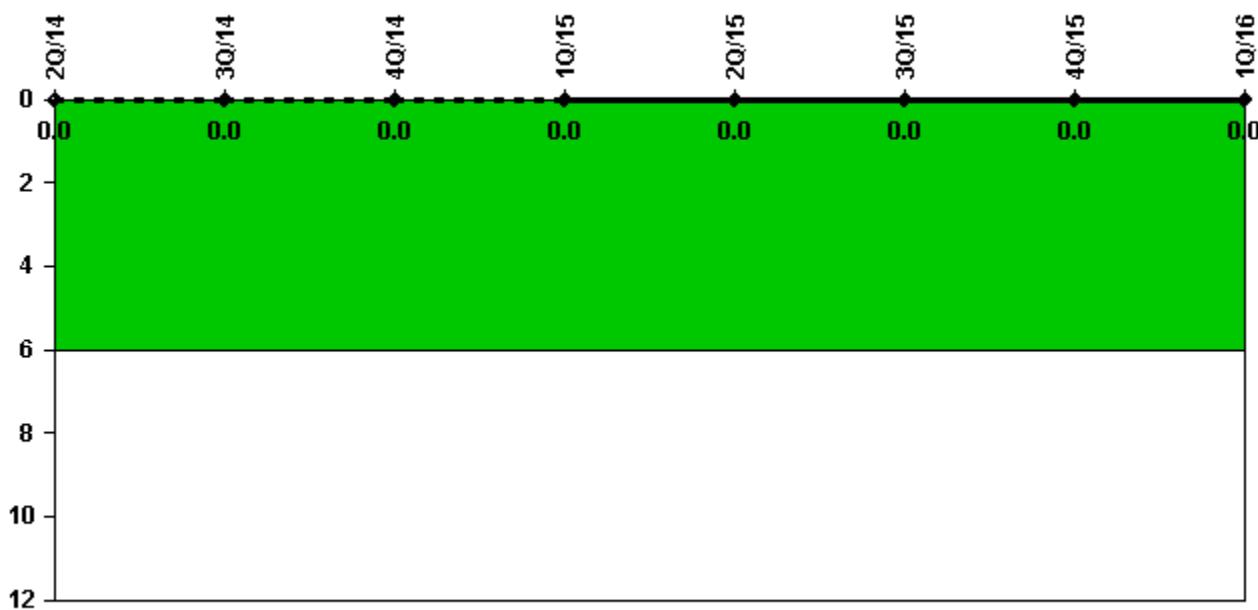
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned scrams	0	0	1.0	0	1.0	0	0	0
Critical hours	2184.0	2208.0	1975.7	1991.0	1552.2	2208.0	2209.0	2183.0
Indicator value	0.9	0	0.8	0.8	1.8	1.8	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



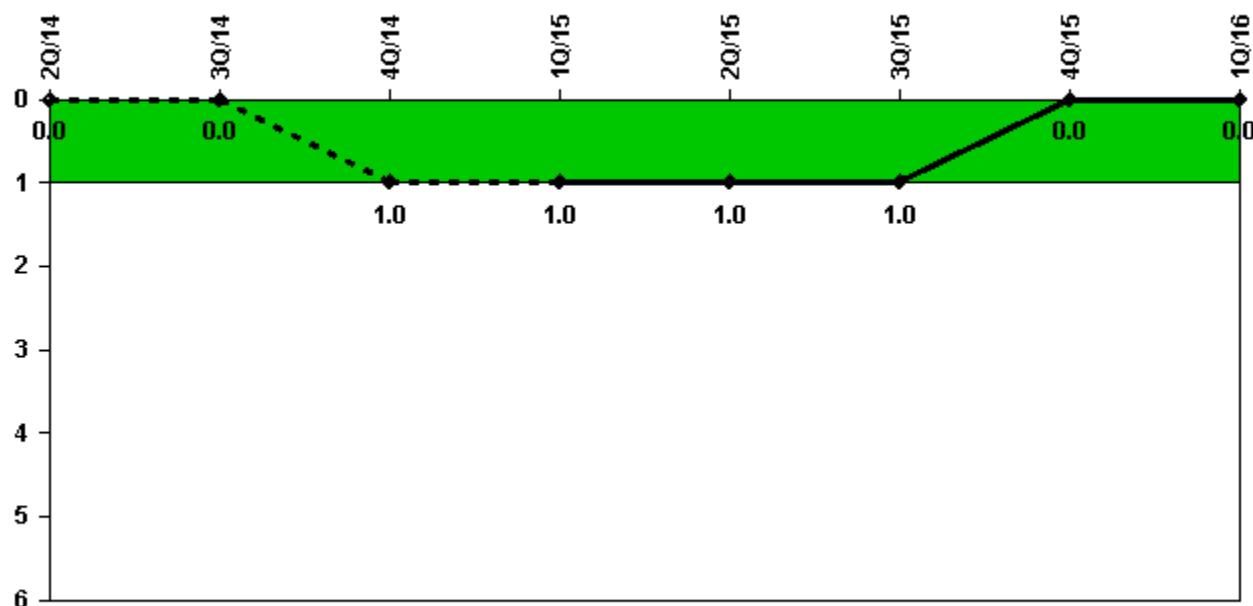
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	1975.7	1991.0	1552.2	2208.0	2209.0	2183.0
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



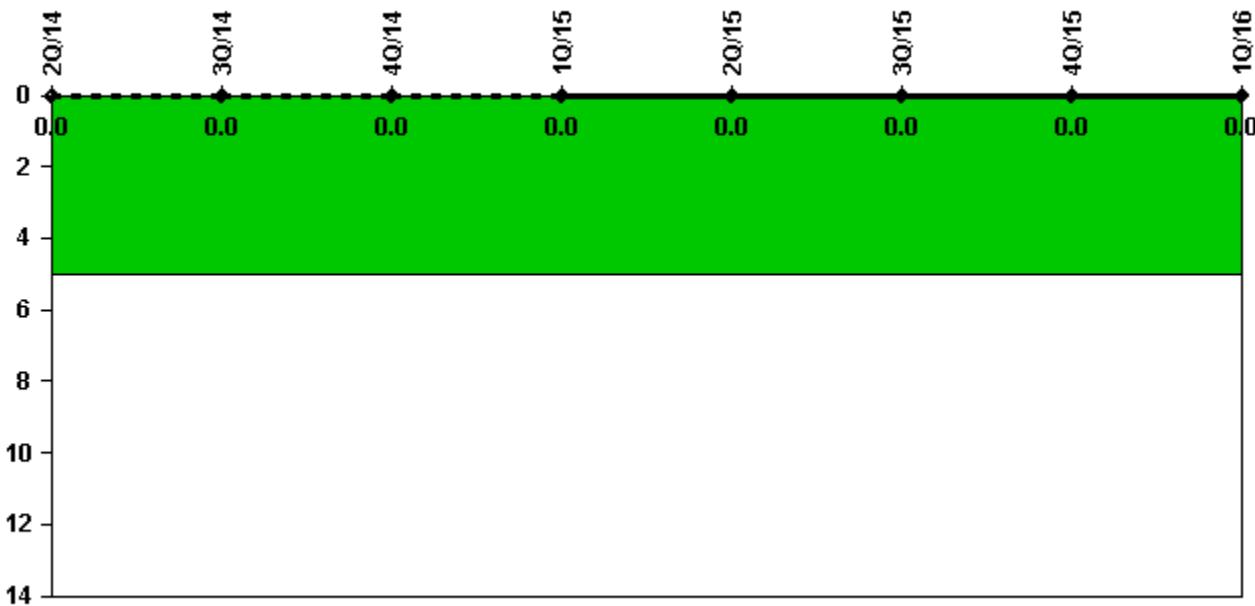
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Scrams with complications	0	0	1.0	0	0	0	0	0
Indicator value	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



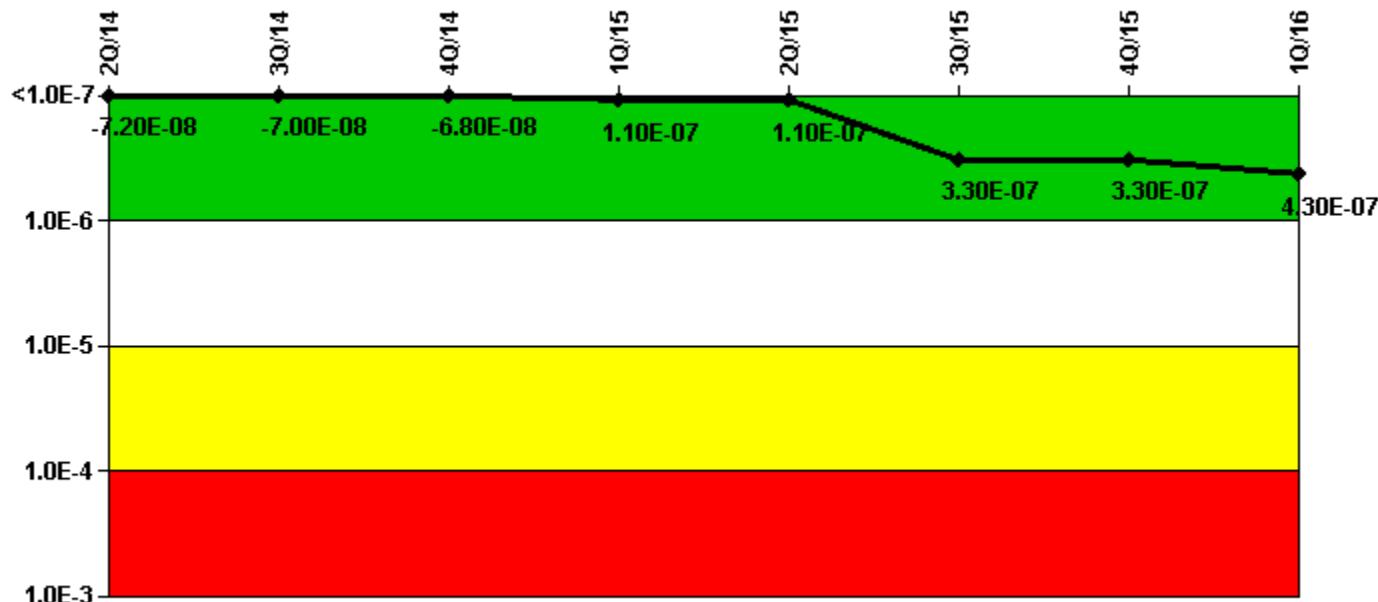
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	2.45E-10	3.29E-10	4.27E-10	4.20E-10	-1.54E-10	-5.74E-09	-1.81E-09	2.76E-09
URI (Δ CDF)	-7.25E-08	-7.00E-08	-6.83E-08	1.13E-07	1.13E-07	3.36E-07	3.36E-07	4.25E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.20E-08	-7.00E-08	-6.80E-08	1.10E-07	1.10E-07	3.30E-07	3.30E-07	4.30E-07

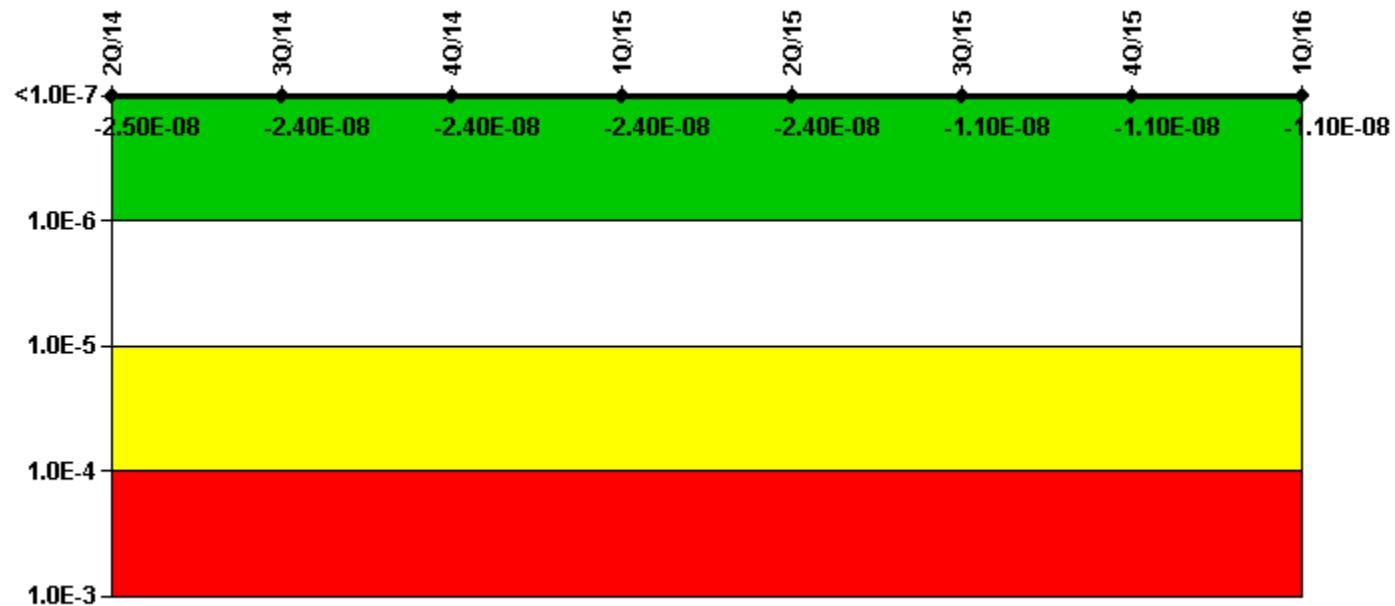
Licensee Comments:

4Q/15: Changed PRA Parameter(s). An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). Data entry errors were identified in the third quarter 2015 MSPI Parameter update for Unit 2 Emergency AC Power following submittal. As a result, the FVURC and URPC values for 2-OME-150-AB (2AB Emergency Diesel Generator) and the Failure to Run FVURC value for 2-OME-150-CD (2CD Emergency Diesel Generator) were revised for the third quarter 2015. The Unit 2 EAC MSPI color remained green following this change.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	-2.66E-11	-2.12E-11	-2.11E-11	-2.11E-11	-2.11E-11	-1.43E-09	-1.43E-09	-1.43E-09
URI (Δ CDF)	-2.54E-08	-2.39E-08	-2.39E-08	-2.39E-08	-2.39E-08	-9.11E-09	-9.11E-09	-9.11E-09
PLE	NO							
Indicator value	-2.50E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	-1.10E-08	-1.10E-08	-1.10E-08

Licensee Comments:

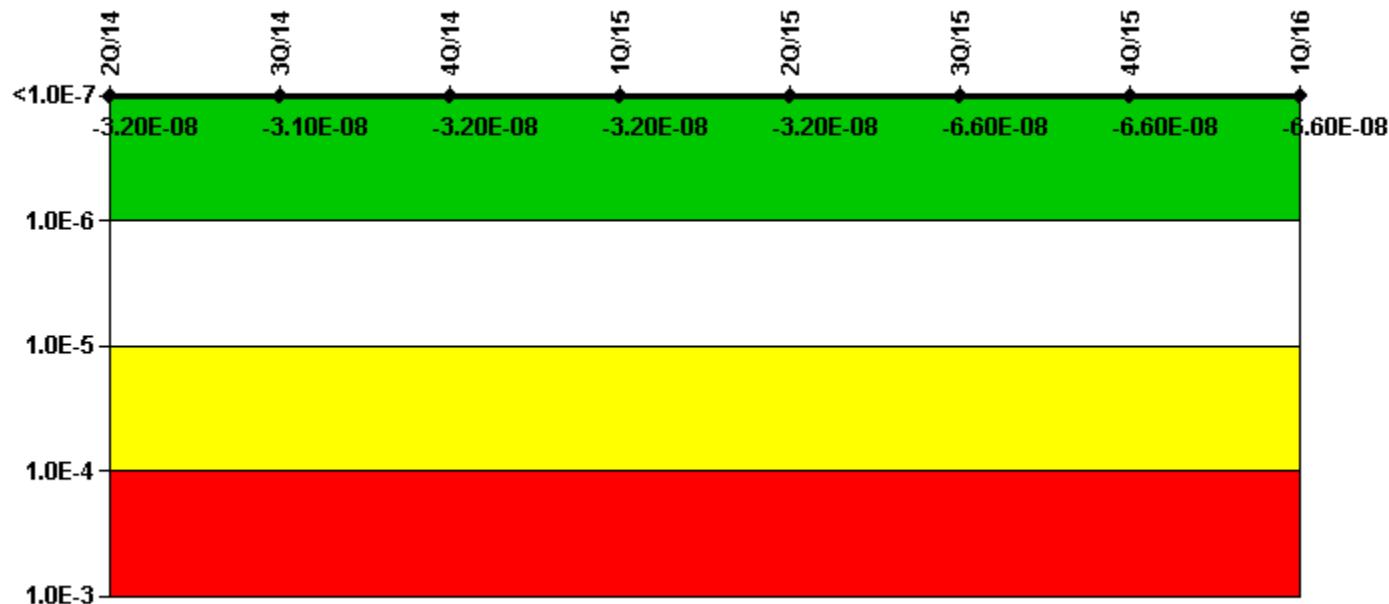
4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action

Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

2Q/14: The High Pressure Injection System MS07 data has been corrected to include an additional 16.62 hours of unavailability for Unit 2 A East CCP Train that were not reported in the 2Q14 submittal. This data change did not result in a change to the indicator color.

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	8.06E-12	1.64E-11	1.79E-11	8.84E-12	-1.34E-11	-1.45E-08	-1.45E-08	-1.45E-08
URI (Δ CDF)	-3.23E-08	-3.15E-08	-3.23E-08	-3.23E-08	-3.23E-08	-5.15E-08	-5.15E-08	-5.15E-08
PLE	NO							

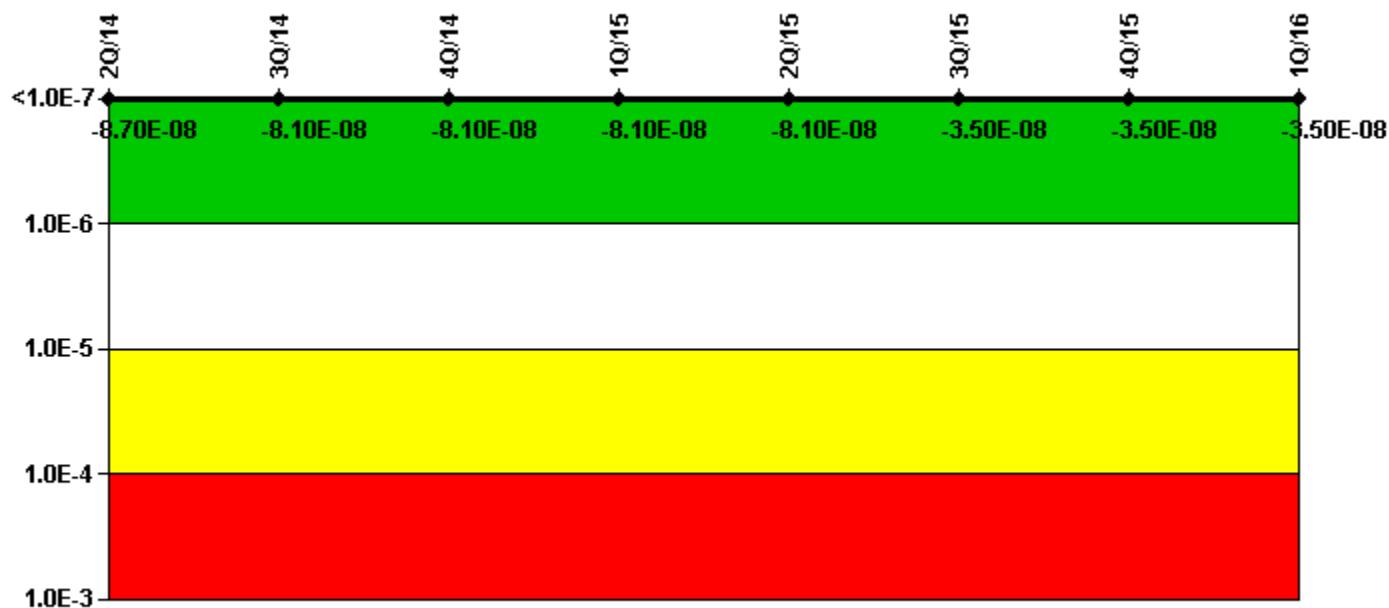
Indicator value	-3.20E-08	-3.10E-08	-3.20E-08	-3.20E-08	-3.20E-08	-6.60E-08	-6.60E-08	-6.60E-08
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Licensee Comments:

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
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UAI (Δ CDF)	-2.16E-13	7.55E-13	7.84E-13	7.46E-13	4.76E-13	-2.83E-09	-2.83E-09	-2.85E-09
URI (Δ CDF)	-8.69E-08	-8.12E-08	-8.12E-08	-8.12E-08	-8.12E-08	-3.18E-08	-3.22E-08	-3.25E-08
PLE	NO							
Indicator value	-8.70E-08	-8.10E-08	-8.10E-08	-8.10E-08	-8.10E-08	-3.50E-08	-3.50E-08	-3.50E-08

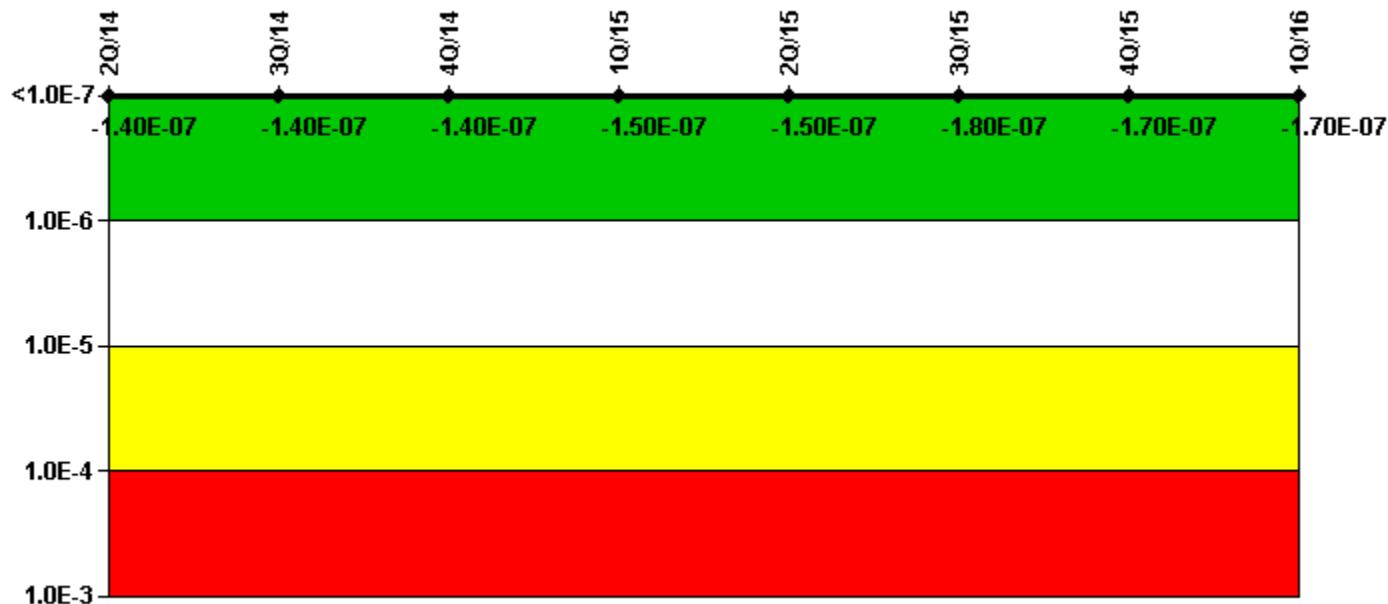
Licensee Comments:

4Q/15: Changed PRA Parameter(s). An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). Data entry errors were identified in the third quarter 2015 MSPI Parameter update for Unit 2 Residual Heat Removal following submittal. As a result, the FVURC and URPC values for 2-ICM-305 (Unit 2 Recirculation Sump to East RHR/CTS Pumps Suction Containment Isolation Valve), the FVURC and URPC values for 2-IMO-390 (Unit 2 Refueling Water Storage Tank TK-33 To Residual Heat Removal Pumps Suction Shutoff Valve), and the Common Cause Factor for 2-CMO-429 (Unit 2 West Residual Heat Removal Heat Exchanger Component Cooling Water outlet Shutoff Valve) were revised for the third quarter 2015. The Unit 2 RHR MSPI color remained green following these changes.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised. The RHR scope of monitored components was revised. 1/2-CMO-419 and 1/2-CMO-429, RHR Heat Exchanger CCW Outlet Valves, are now included in the scope of monitored components based on their Birnbaum importance. 1/2-ICM-311 and 1/2-ICM-321, RHR Pump Discharge MOVs, are removed from the scope of monitored components since they do not have an active safety function modeled in the PRA.

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	-3.82E-11	-3.78E-11	-3.46E-11	-5.33E-11	-5.34E-11	-8.51E-08	-8.01E-08	-7.27E-08
URI (Δ CDF)	-1.40E-07	-1.39E-07	-1.39E-07	-1.48E-07	-1.49E-07	-9.27E-08	-9.31E-08	-9.34E-08
PLE	NO							
Indicator value	-1.40E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.80E-07	-1.70E-07	-1.70E-07

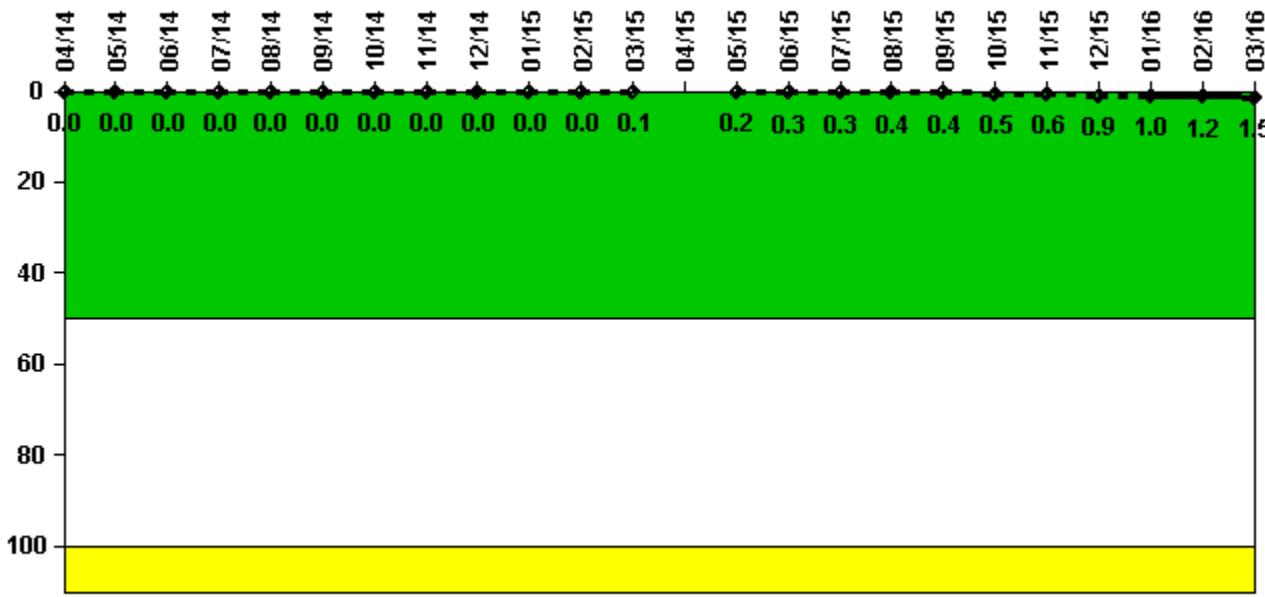
Licensee Comments:

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

1Q/15: The MSPI Basis Document was updated in the 4th Quarter 2014 to reflect 2009 PRA model of record error that the PRA model incorrectly removed cutsets associated with failure of the CCW heat exchanger CCW outlet valves (2-CMO-410 & 420) opening from model results. As a result, these valves have been incorporated in the Unit 2 Cooling Water System scope of monitored components.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

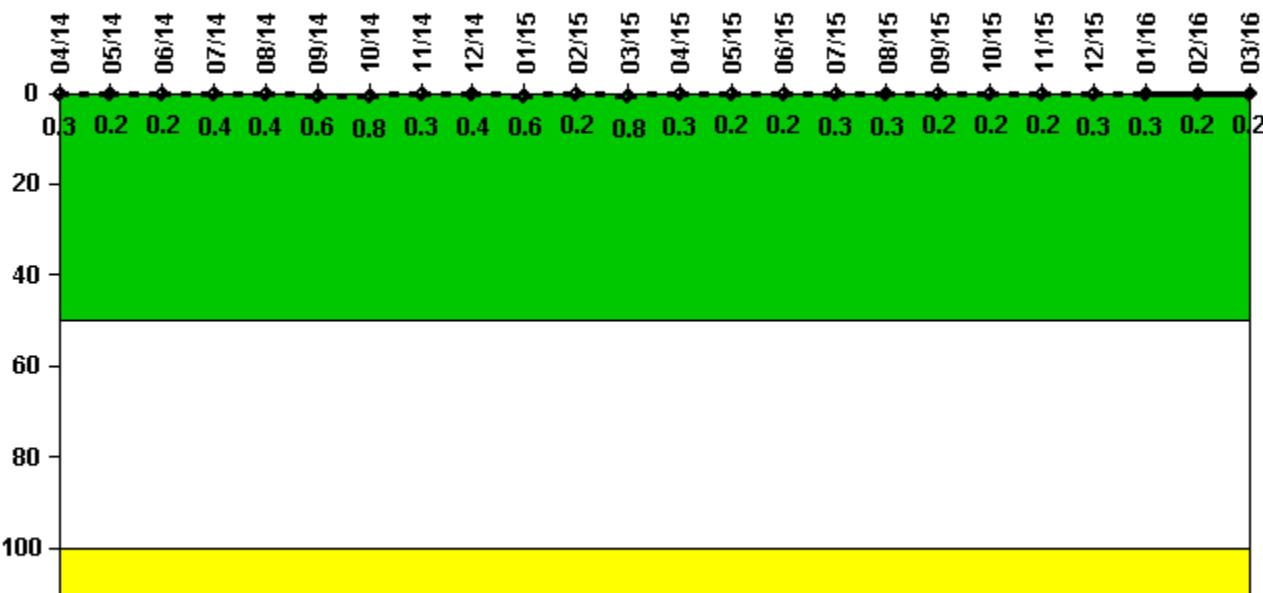
Notes

Reactor Coolant System Activity	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum activity	0.000115	0.000111	0.000114	0.000121	0.000125	0.000127	0.000131	0.000137	0.000162	0.000145	0.000149	0.000197
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0.1
Reactor Coolant System Activity	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum activity	N/A	0.000662	0.001160	0.001090	0.001290	0.001420	0.001750	0.002240	0.003130	0.003570	0.004090	0.005100
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

Indicator value	N/A	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.9	1.0	1.2	1.5
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Licensee Comments: none

Reactor Coolant System Leakage



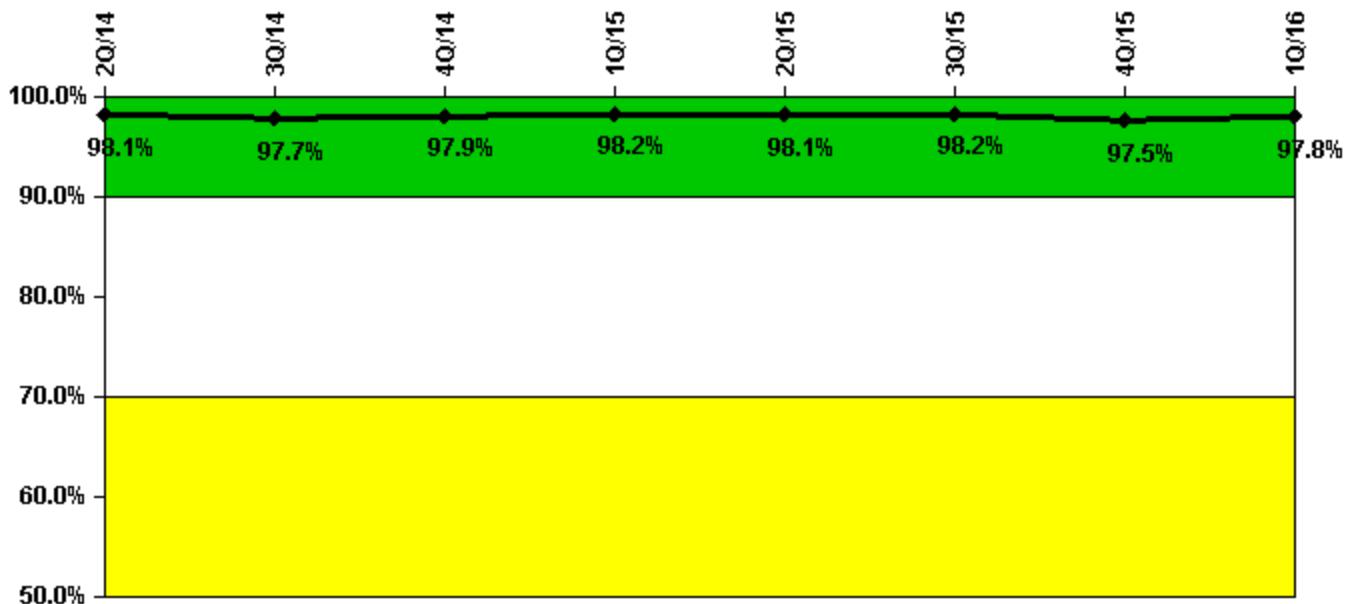
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum leakage	0.028	0.023	0.024	0.039	0.048	0.071	0.084	0.028	0.041	0.064	0.025	0.085
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.3	0.2	0.2	0.4	0.4	0.6	0.8	0.3	0.4	0.6	0.2	0.8
Reactor Coolant System Leakage	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum leakage	0.037	0.024	0.023	0.028	0.031	0.018	0.024	0.022	0.031	0.034	0.019	0.018
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2

Licensee Comments: none

Drill/Exercise Performance



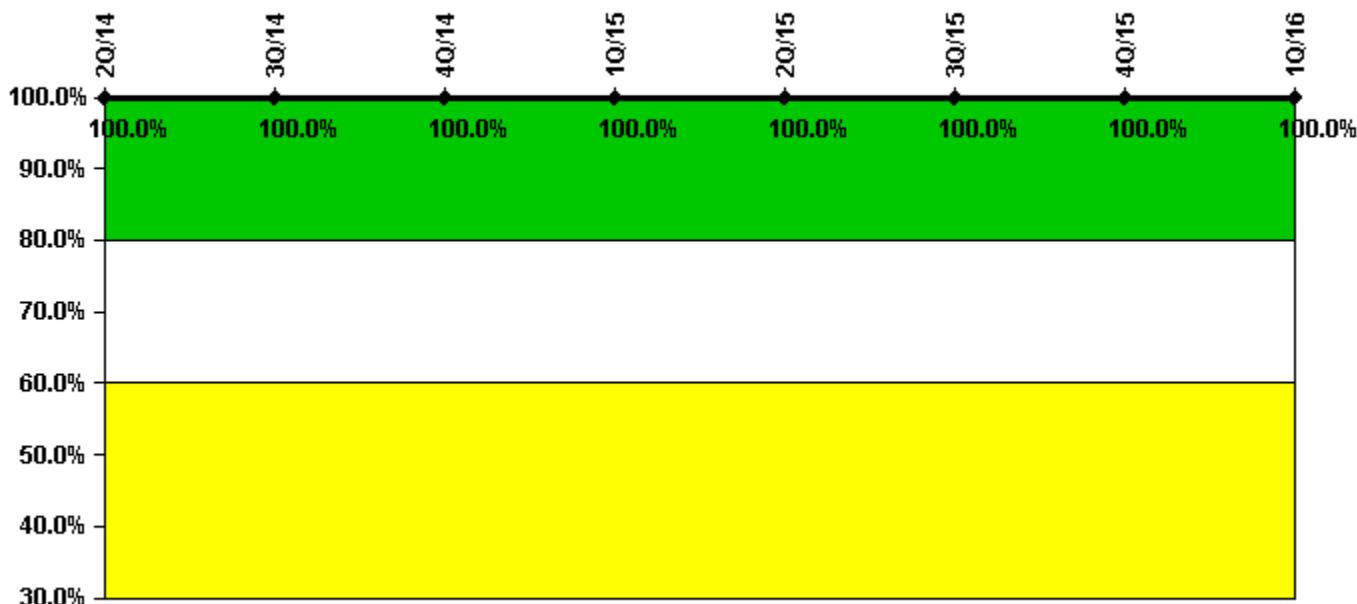
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful opportunities	23.0	59.0	56.0	68.0	12.0	62.0	56.0	62.0
Total opportunities	25.0	61.0	56.0	69.0	12.0	62.0	60.0	62.0
Indicator value	98.1%	97.7%	97.9%	98.2%	98.1%	98.2%	97.5%	97.8%

Licensee Comments: none

ERO Drill Participation



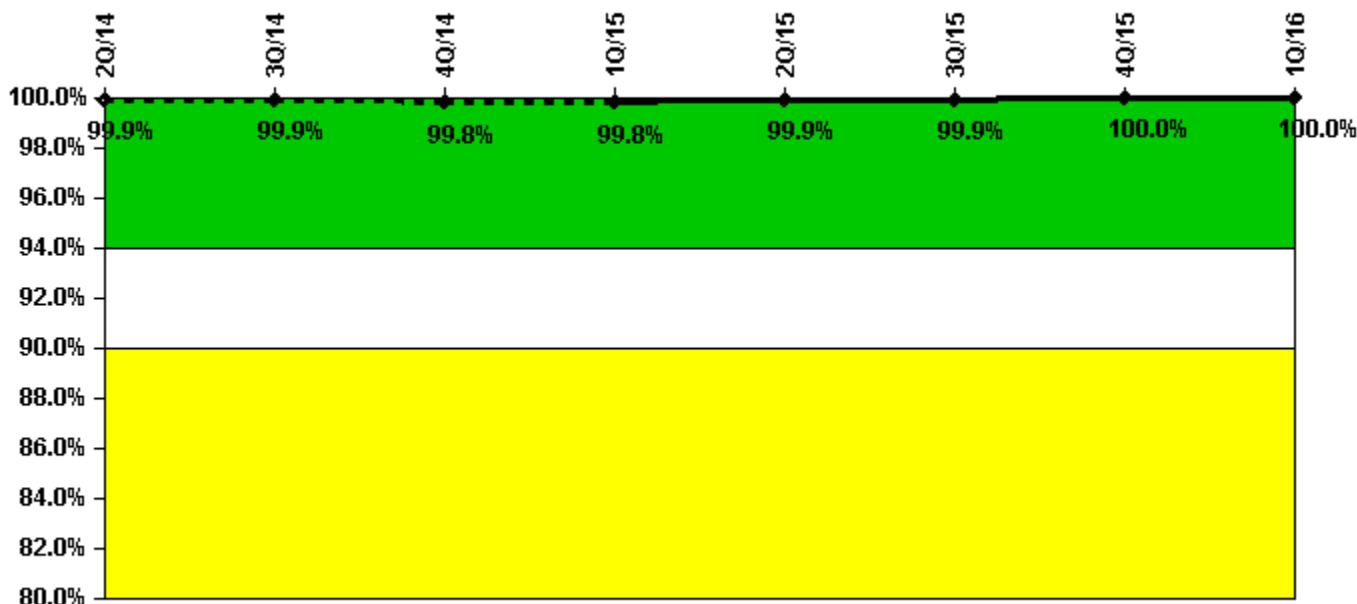
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Participating Key personnel	118.0	123.0	128.0	133.0	134.0	132.0	132.0	132.0
Total Key personnel	118.0	123.0	128.0	133.0	134.0	132.0	132.0	132.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

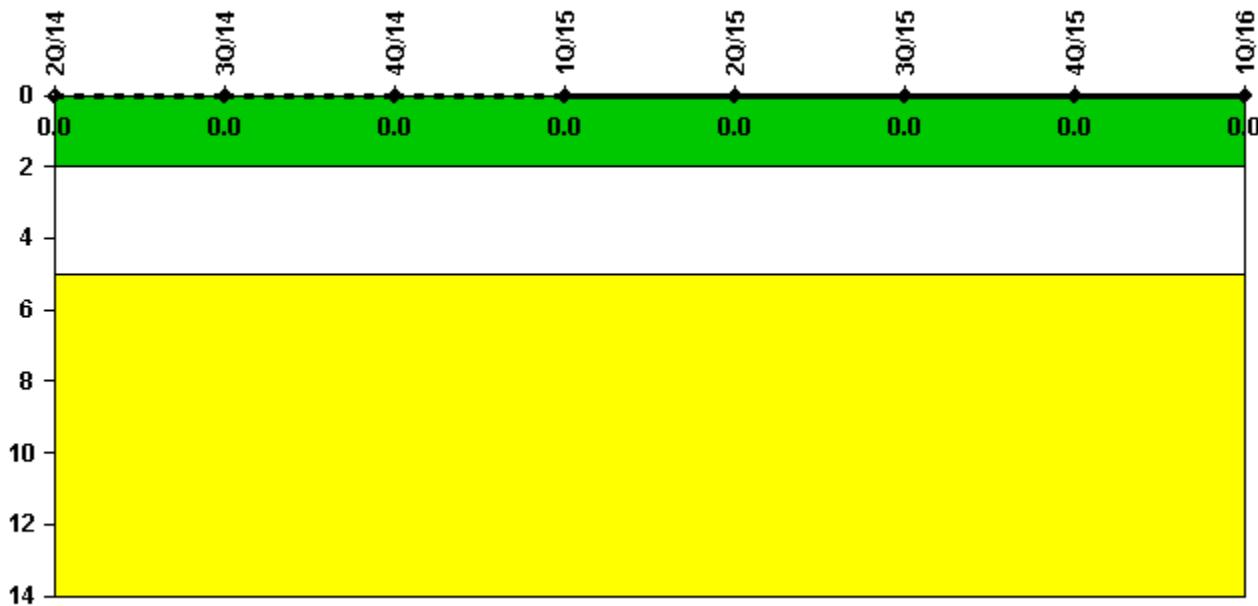
Notes

Alert & Notification System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful siren-tests	1115	1119	1187	1050	1119	1190	1120	1119
Total sirens-tests	1119	1120	1190	1050	1119	1190	1120	1120
Indicator value	99.9%	99.9%	99.8%	99.8%	99.9%	99.9%	100.0%	100.0%

Licensee Comments:

2Q/14: Data entry errors were noted for the June entry for the weekly siren test. ANS was reported as 70/70 and should have been 69/70. The ANS Reliability color remains Green following this change.

Occupational Exposure Control Effectiveness



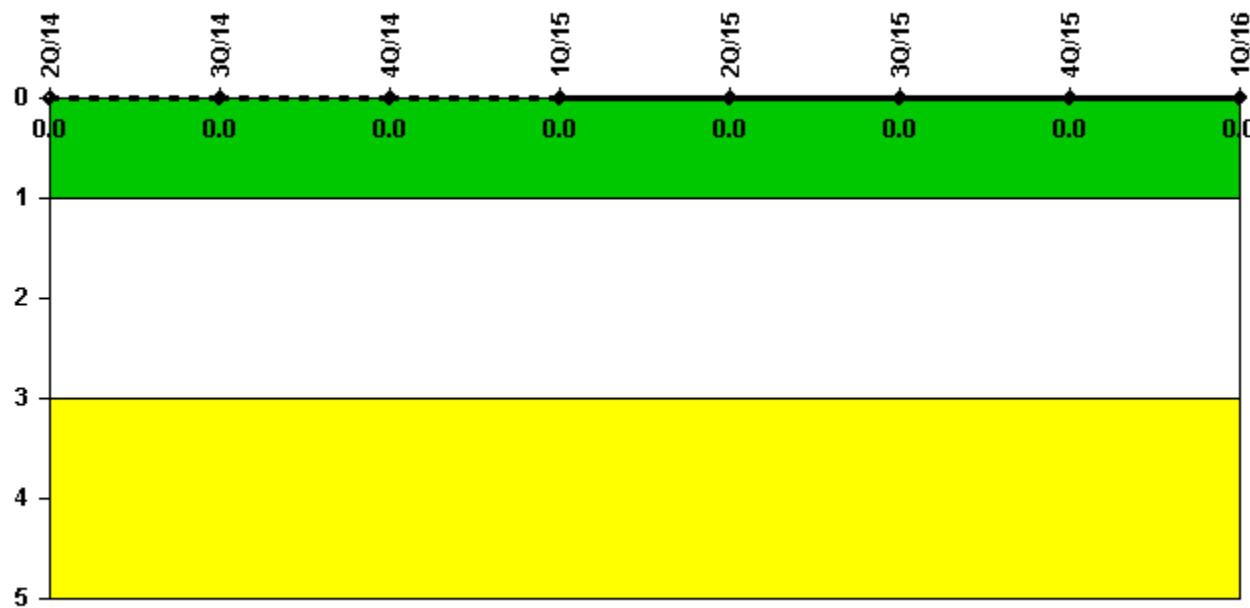
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: April 23, 2016

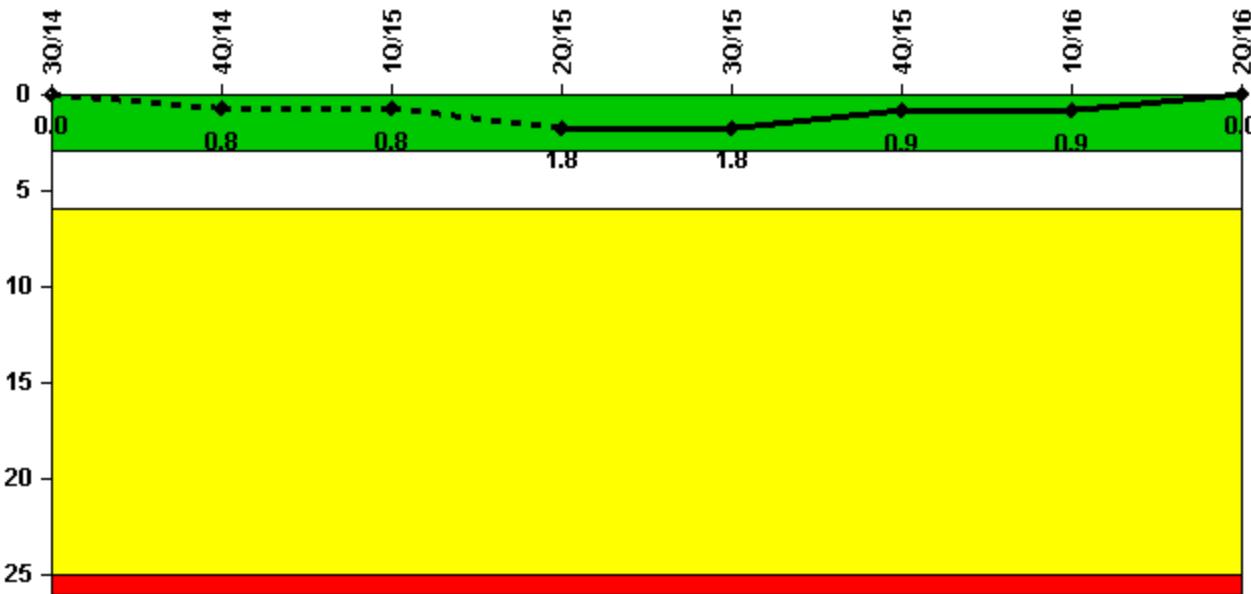
D.C. Cook 2

2Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



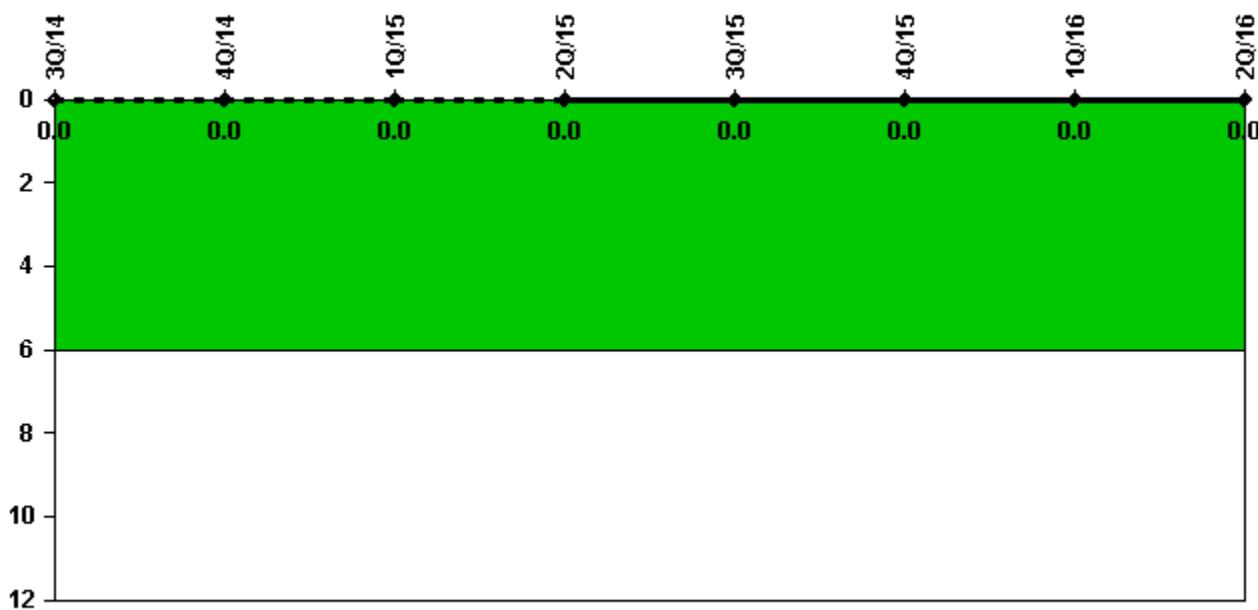
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned scrams	0	1.0	0	1.0	0	0	0	0
Critical hours	2208.0	1975.7	1991.0	1552.2	2208.0	2209.0	2183.0	2184.0
Indicator value	0	0.8	0.8	1.8	1.8	0.9	0.9	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



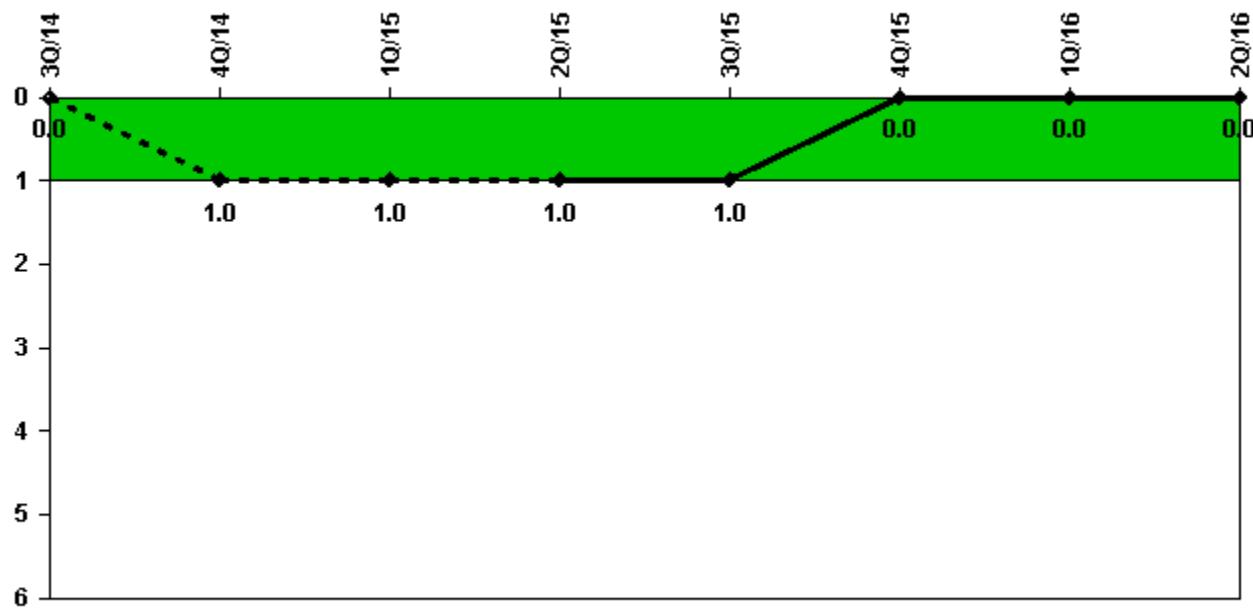
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	1975.7	1991.0	1552.2	2208.0	2209.0	2183.0	2184.0
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



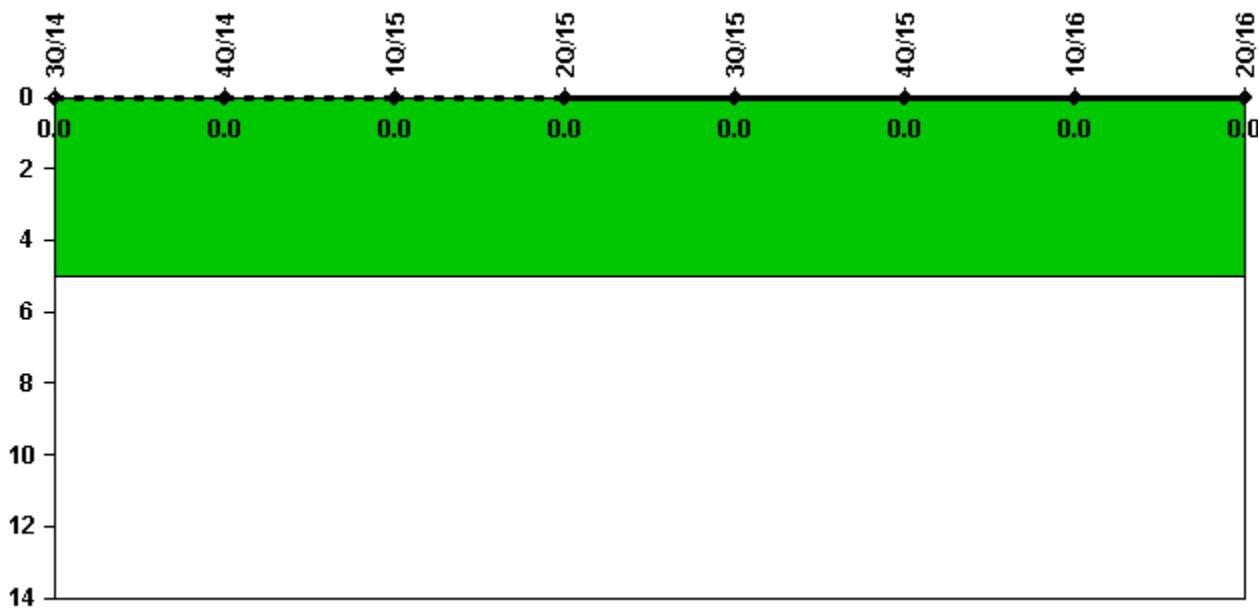
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Scrams with complications	0	1.0	0	0	0	0	0	0
Indicator value	0.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



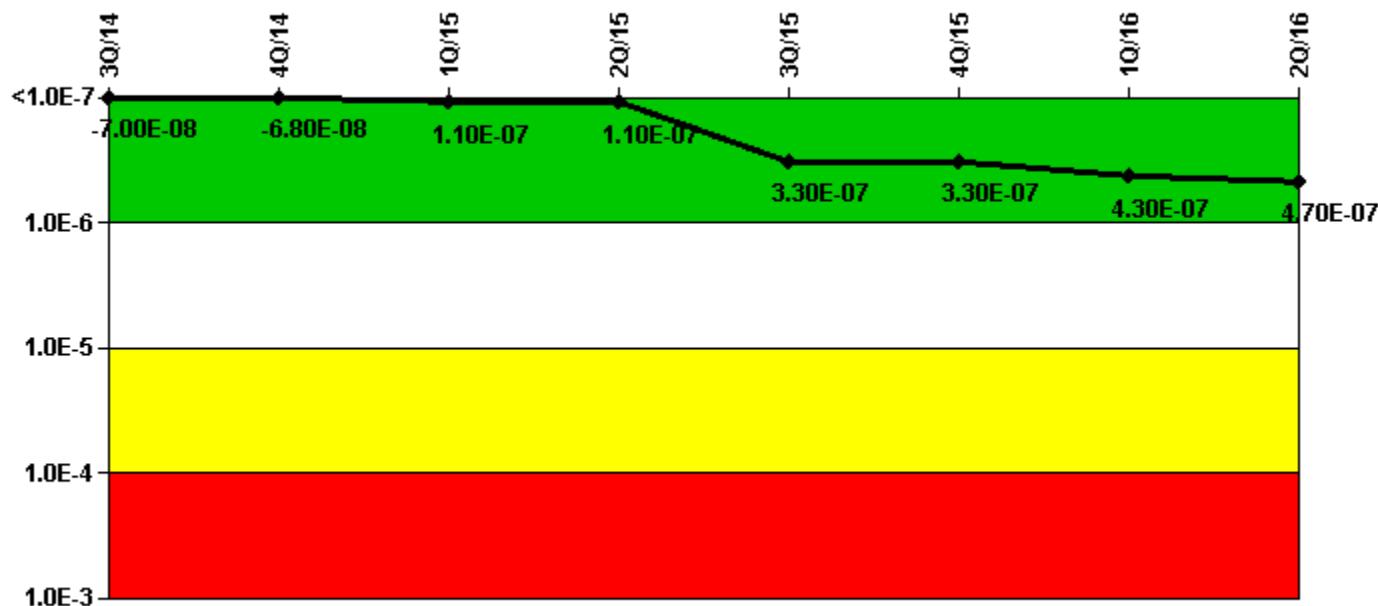
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	3.29E-10	4.27E-10	4.20E-10	-1.54E-10	-5.74E-09	-1.81E-09	2.76E-09	5.37E-09
URI (Δ CDF)	-7.00E-08	-6.83E-08	1.13E-07	1.13E-07	3.36E-07	3.36E-07	4.25E-07	4.69E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.00E-08	-6.80E-08	1.10E-07	1.10E-07	3.30E-07	3.30E-07	4.30E-07	4.70E-07

Licensee Comments:

2Q/16: Risk Cap Invoked. Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

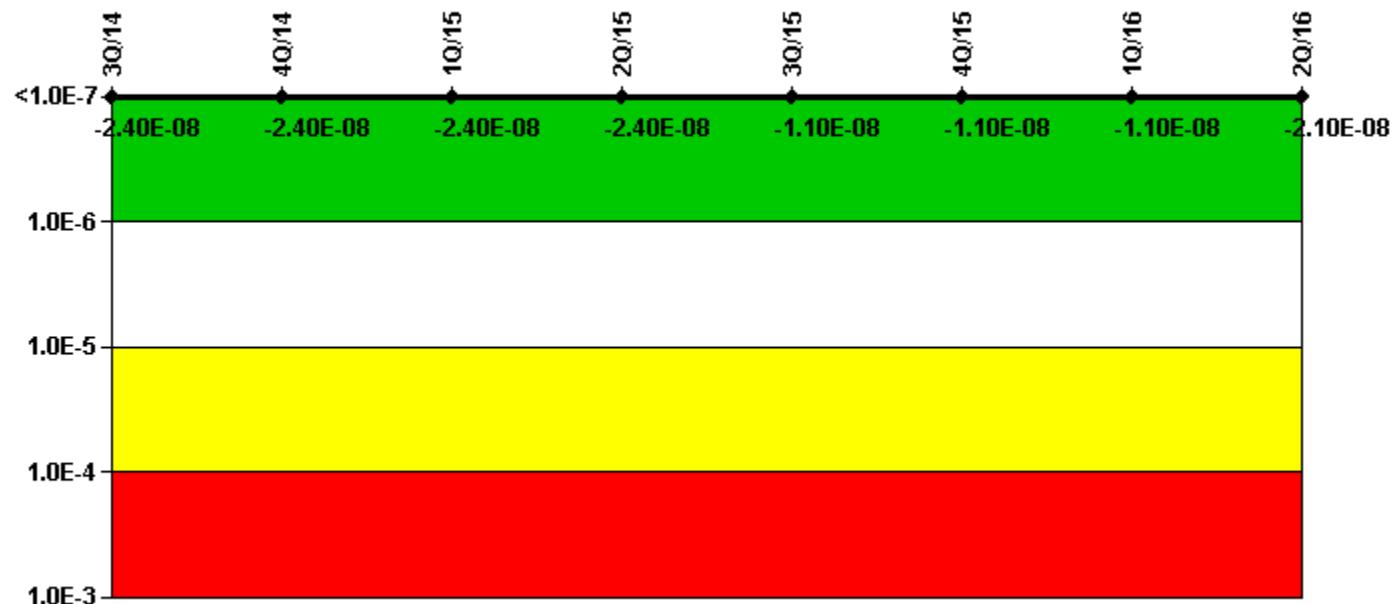
4Q/15: Changed PRA Parameter(s). An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the

PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). Data entry errors were identified in the third quarter 2015 MSPI Parameter update for Unit 2 Emergency AC Power following submittal. As a result, the FVURC and URPC values for 2-OME-150-AB (2AB Emergency Diesel Generator) and the Failure to Run FVURC value for 2-OME-150-CD (2CD Emergency Diesel Generator) were revised for the third quarter 2015. The Unit 2 EAC MSPI color remained green following this change.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	-2.12E-11	-2.11E-11	-2.11E-11	-2.11E-11	-1.43E-09	-1.43E-09	-1.43E-09	-3.81E-09

URI (Δ CDF)	-2.39E-08	-2.39E-08	-2.39E-08	-2.39E-08	-9.11E-09	-9.11E-09	-9.11E-09	-1.68E-08
PLE	NO							
Indicator value	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	-1.10E-08	-1.10E-08	-1.10E-08	-2.10E-08

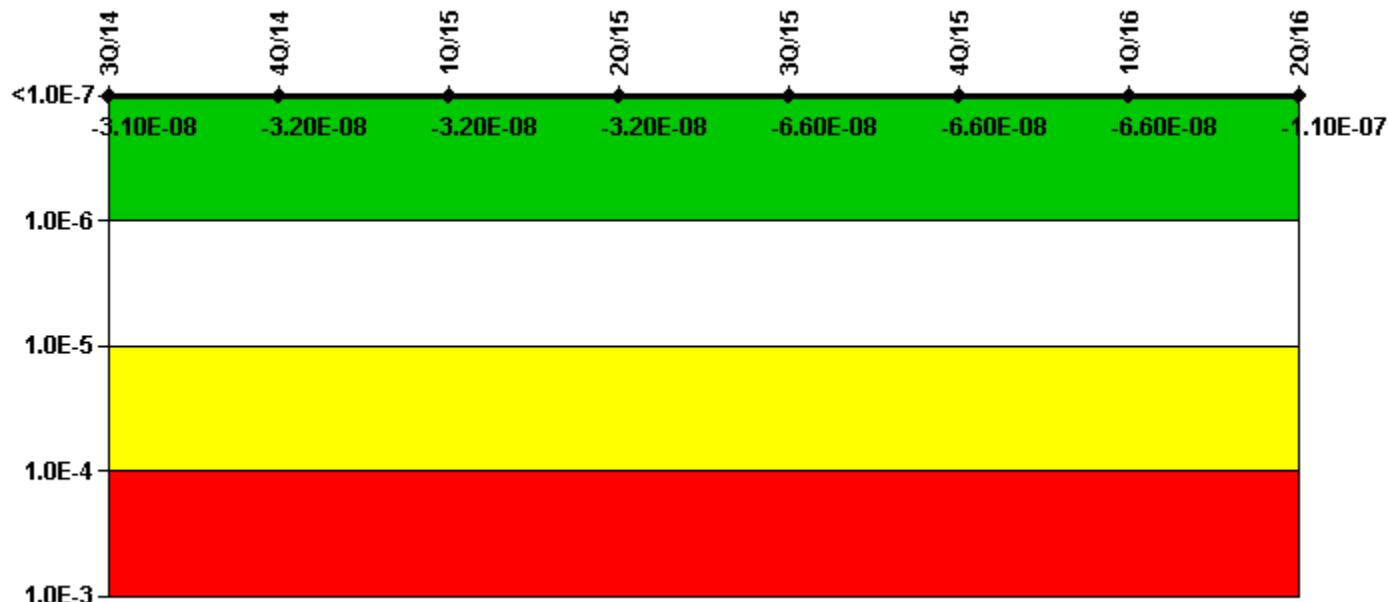
Licensee Comments:

2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	1.64E-11	1.79E-11	8.84E-12	-1.34E-11	-1.45E-08	-1.45E-08	-1.45E-08	-2.77E-08
URI (Δ CDF)	-3.15E-08	-3.23E-08	-3.23E-08	-3.23E-08	-5.15E-08	-5.15E-08	-5.15E-08	-7.92E-08
PLE	NO							
Indicator value	-3.10E-08	-3.20E-08	-3.20E-08	-3.20E-08	-6.60E-08	-6.60E-08	-6.60E-08	-1.10E-07

Licensee Comments:

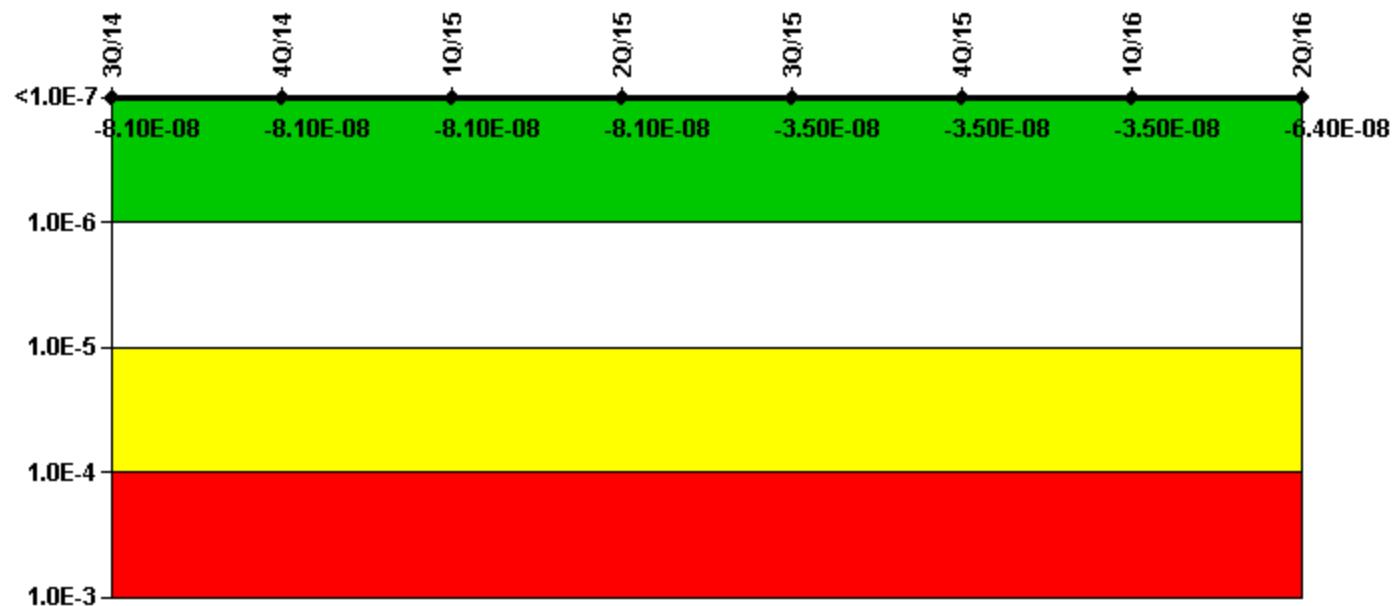
2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously

submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	7.55E-13	7.84E-13	7.46E-13	4.76E-13	-2.83E-09	-2.83E-09	-2.85E-09	1.57E-08
URI (Δ CDF)	-8.12E-08	-8.12E-08	-8.12E-08	-8.12E-08	-3.18E-08	-3.22E-08	-3.25E-08	-7.98E-08
PLE	NO							
Indicator value	-8.10E-08	-8.10E-08	-8.10E-08	-8.10E-08	-3.50E-08	-3.50E-08	-3.50E-08	-6.40E-08

Licensee Comments:

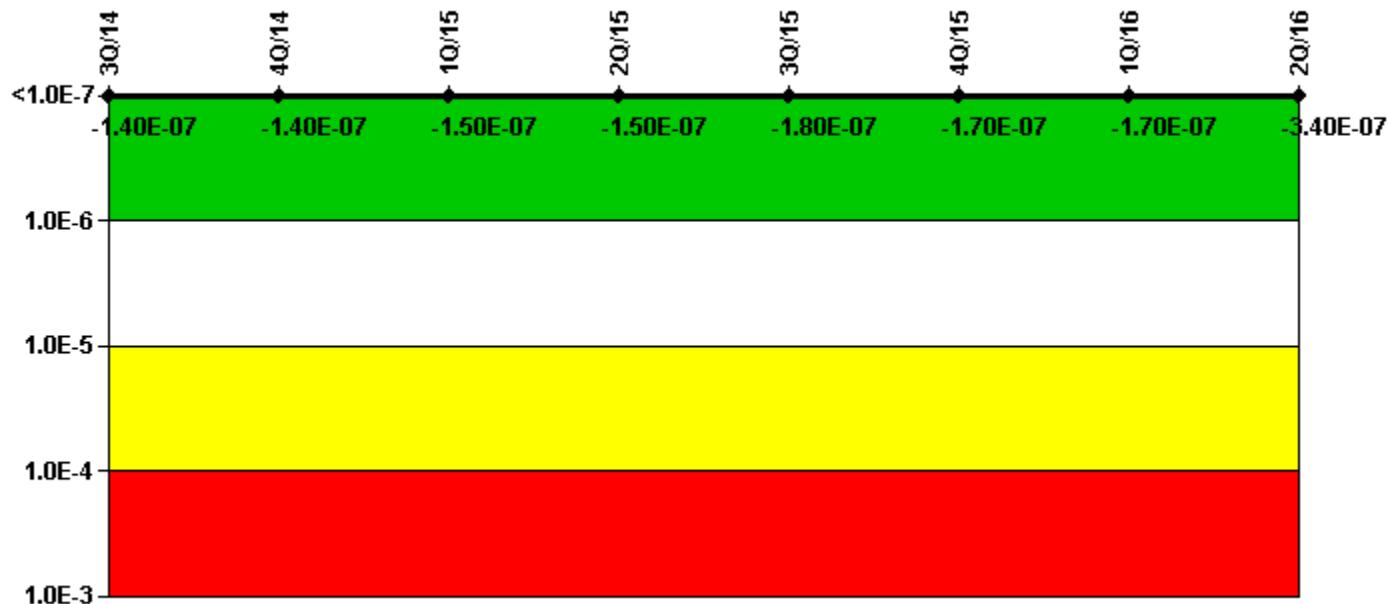
2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: Changed PRA Parameter(s). An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). Data entry errors were identified in the third quarter 2015 MSPI Parameter update for Unit 2 Residual Heat Removal following submittal. As a result, the FVURC and URPC values for 2-ICM-305 (Unit 2 Recirculation Sump to East RHR/CTS Pumps Suction Containment Isolation Valve), the FVURC and URPC values for 2-IMO-390 (Unit 2 Refueling Water Storage Tank TK-33 To Residual Heat Removal Pumps Suction Shutoff Valve), and the Common Cause Factor for 2-CMO-429 (Unit 2 West Residual Heat Removal Heat Exchanger Component Cooling Water outlet Shutoff Valve) were revised for the third quarter 2015. The Unit 2 RHR MSPI color remained green following these changes.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised. The RHR scope of monitored components was revised. 1/2-CMO-419 and 1/2-CMO-429, RHR Heat Exchanger CCW Outlet Valves, are now included in the scope of monitored components based on their Birnbaum importance. 1/2-ICM-311 and 1/2-ICM-321, RHR Pump Discharge MOVs, are removed from the scope of monitored components since they do not have an active safety function modeled in the PRA.

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	-3.78E-11	-3.46E-11	-5.33E-11	-5.34E-11	-8.51E-08	-8.01E-08	-7.27E-08	-1.57E-07
URI (Δ CDF)	-1.39E-07	-1.39E-07	-1.48E-07	-1.49E-07	-9.27E-08	-9.31E-08	-9.34E-08	-1.81E-07
PLE	NO							
Indicator value	-1.40E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.80E-07	-1.70E-07	-1.70E-07	-3.40E-07

Licensee Comments:

2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

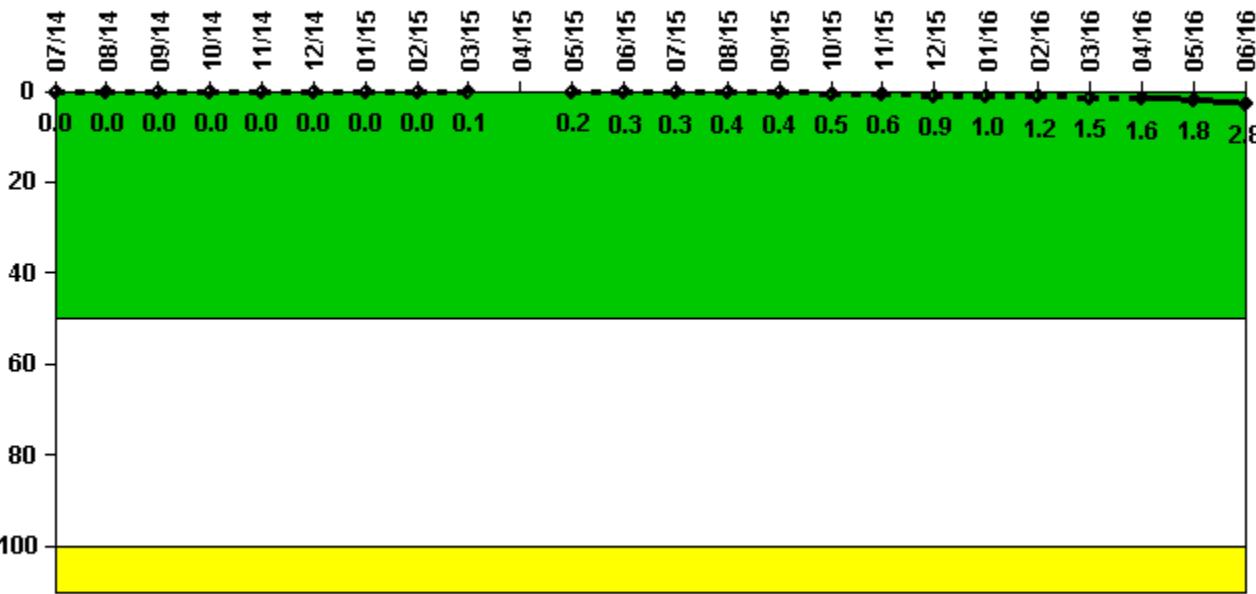
4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd

Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

1Q/15: The MSPI Basis Document was updated in the 4th Quarter 2014 to reflect 2009 PRA model of record error that the PRA model incorrectly removed cutsets associated with failure of the CCW heat exchanger CCW outlet valves (2-CMO-410 & 420) opening from model results. As a result, these valves have been incorporated in the Unit 2 Cooling Water System scope of monitored components.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

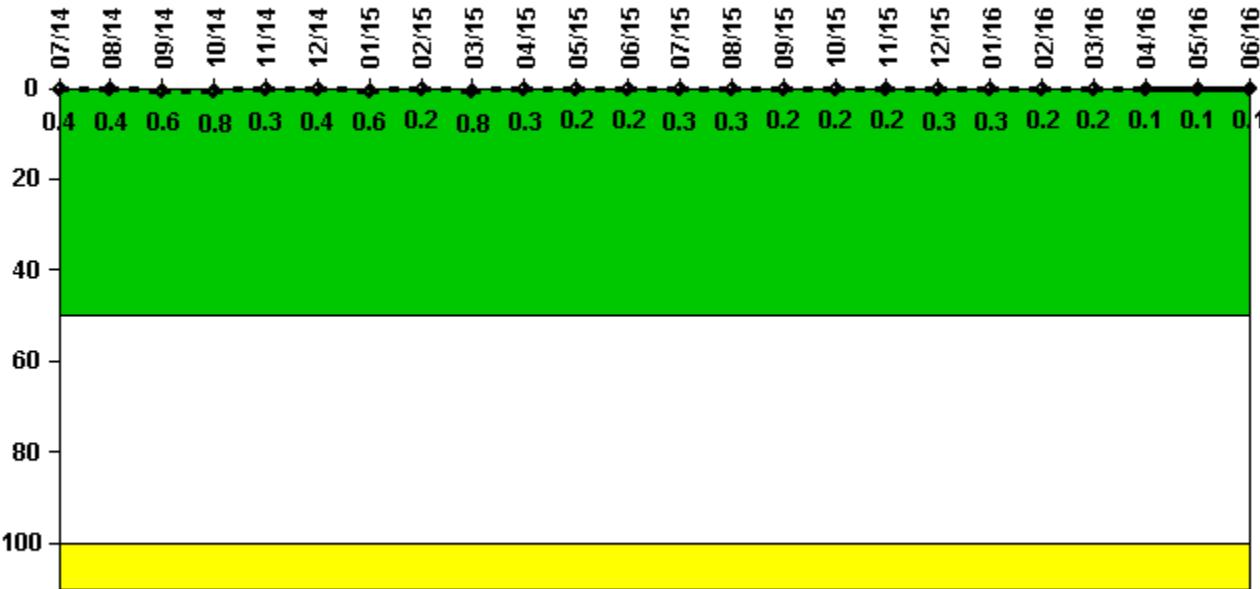
Notes

Reactor Coolant System Activity	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum activity	0.000121	0.000125	0.000127	0.000131	0.000137	0.000162	0.000145	0.000149	0.000197	N/A	0.000662	0.001160
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4

Indicator value	0	0	0	0	0	0	0	0	0	0.1	N/A	0.2	0.3
Reactor Coolant System Activity	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	
Maximum activity	0.001090	0.001290	0.001420	0.001750	0.002240	0.003130	0.003570	0.004090	0.005100	0.005680	0.006340	0.009910	
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0.3	0.4	0.4	0.5	0.6	0.9	1.0	1.2	1.5	1.6	1.8	2.8	

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

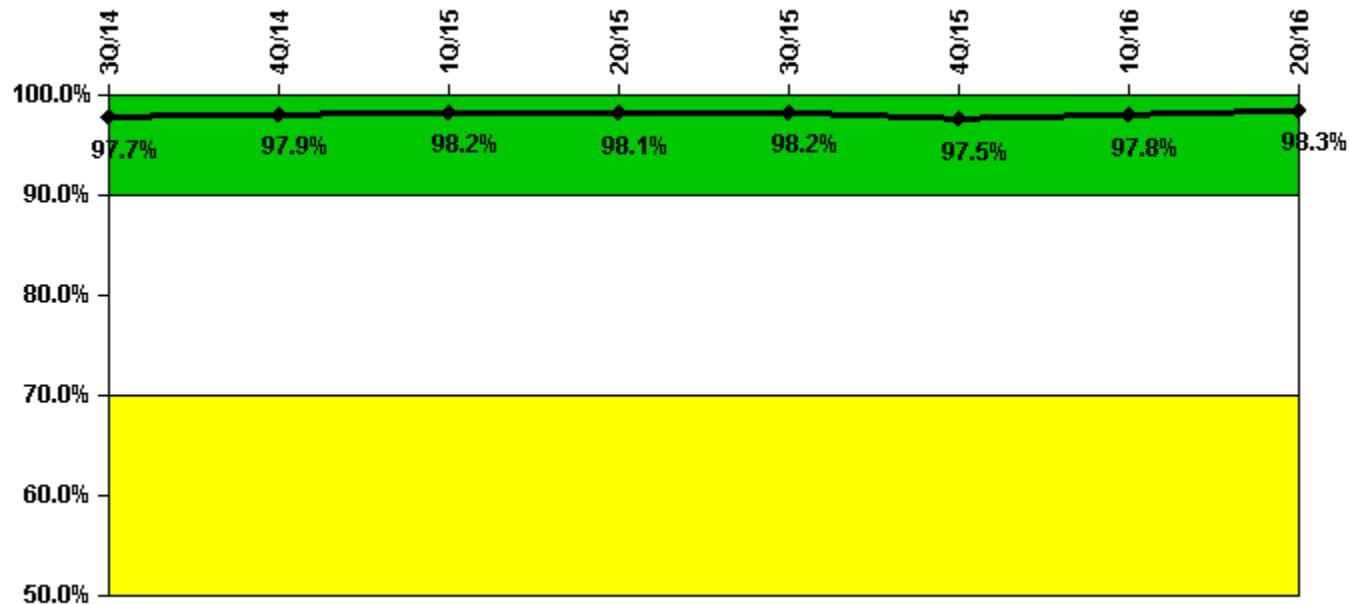
Notes

Reactor Coolant System Leakage	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum leakage	0.039	0.048	0.071	0.084	0.028	0.041	0.064	0.025	0.085	0.037	0.024	0.023
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.4	0.4	0.6	0.8	0.3	0.4	0.6	0.2	0.8	0.3	0.2	0.2

Reactor Coolant System Leakage	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum leakage	0.028	0.031	0.018	0.024	0.022	0.031	0.034	0.019	0.018	0.014	0.015	0.011
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1

Licensee Comments: none

Drill/Exercise Performance



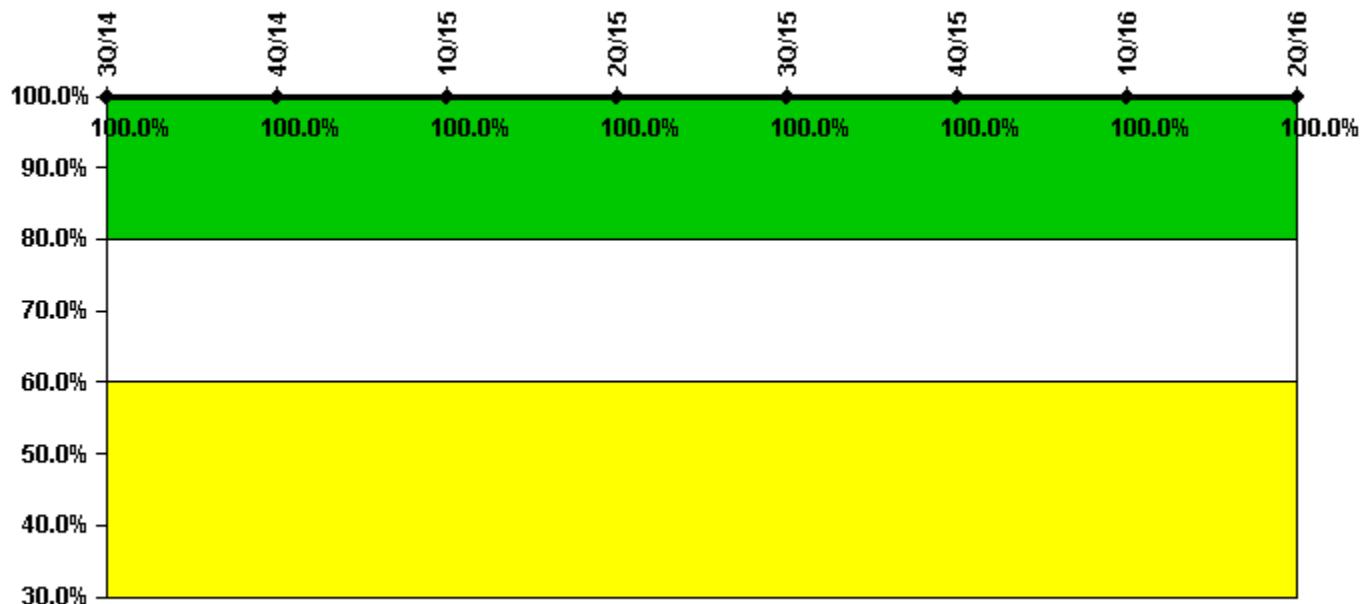
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful opportunities	59.0	56.0	68.0	12.0	62.0	56.0	62.0	34.0
Total opportunities	61.0	56.0	69.0	12.0	62.0	60.0	62.0	34.0
Indicator value	97.7%	97.9%	98.2%	98.1%	98.2%	97.5%	97.8%	98.3%

Licensee Comments: none

ERO Drill Participation



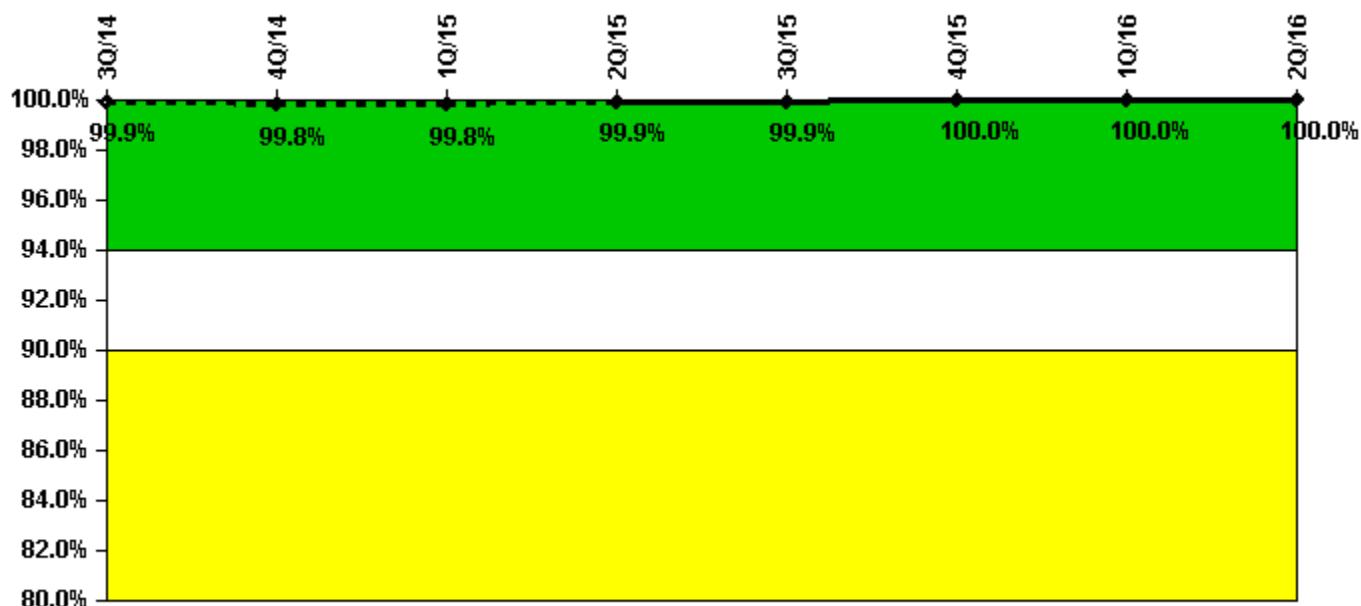
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Participating Key personnel	123.0	128.0	133.0	134.0	132.0	132.0	132.0	109.0
Total Key personnel	123.0	128.0	133.0	134.0	132.0	132.0	132.0	109.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



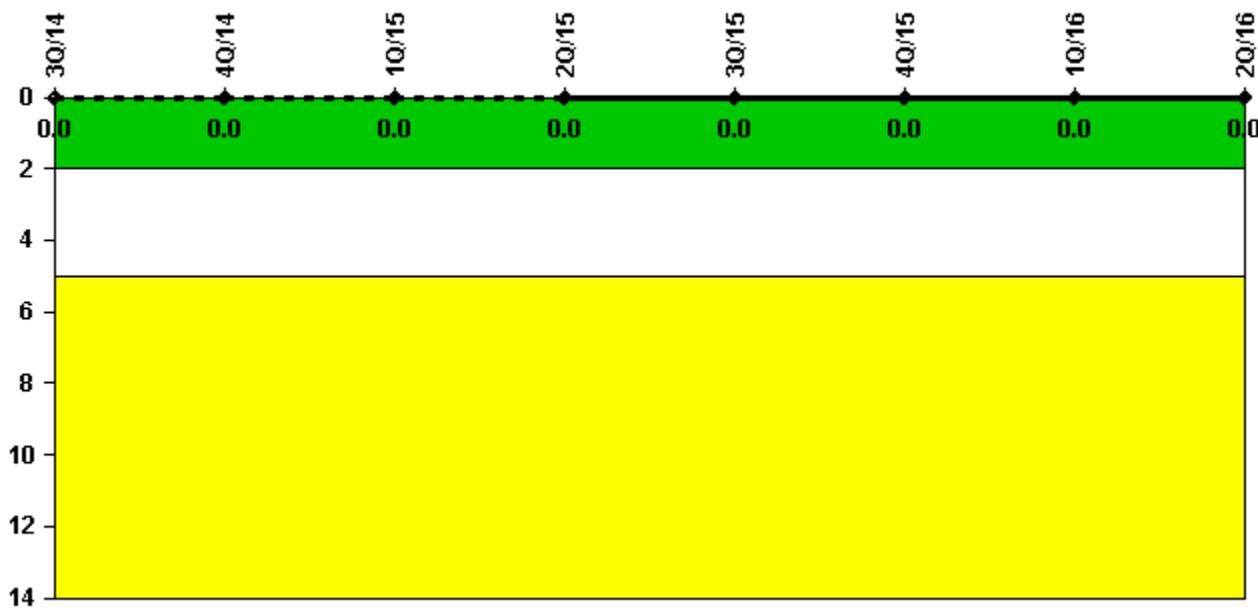
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful siren-tests	1119	1187	1050	1119	1190	1120	1119	1119
Total sirens-tests	1120	1190	1050	1119	1190	1120	1120	1119
Indicator value	99.9%	99.8%	99.8%	99.9%	99.9%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



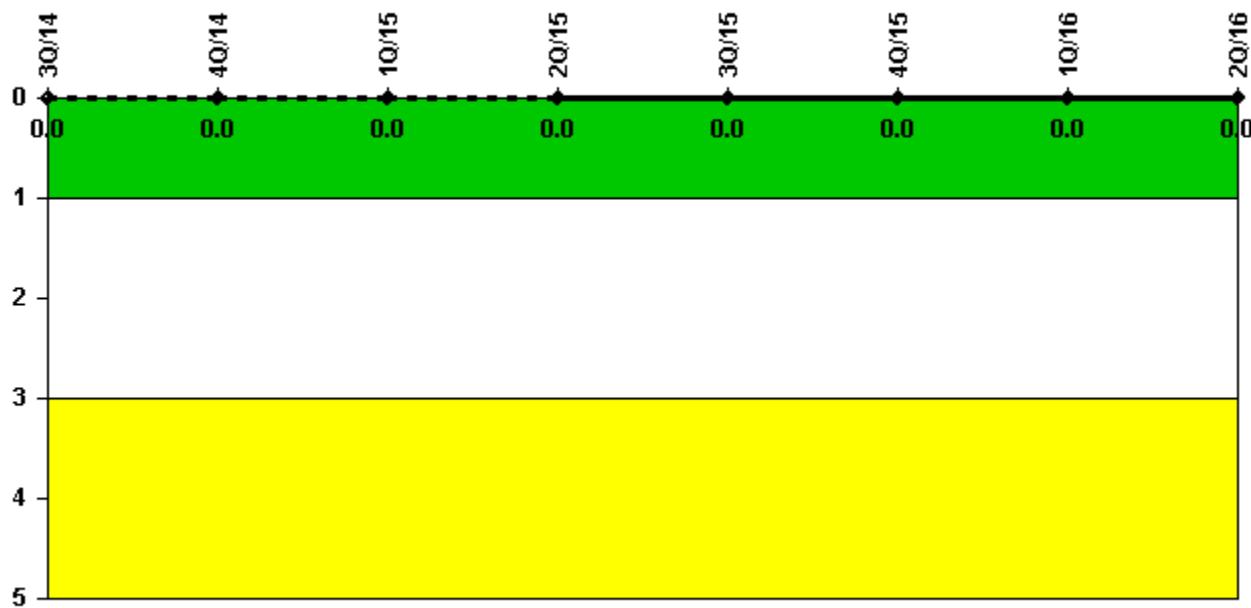
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: July 25, 2016

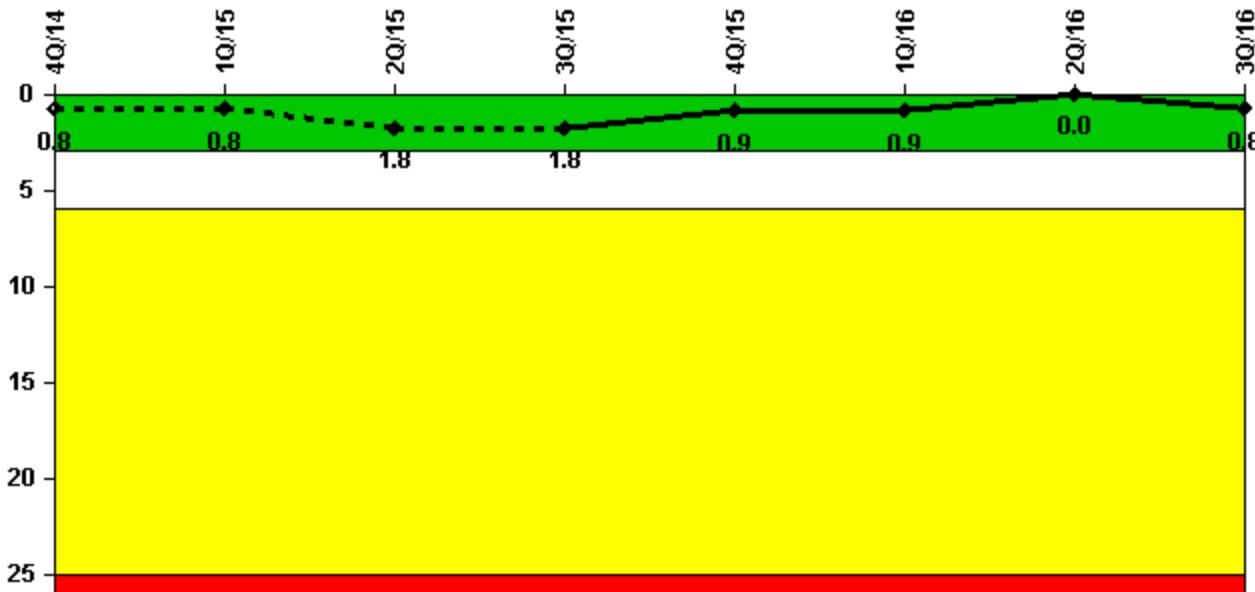
D.C. Cook 2

3Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



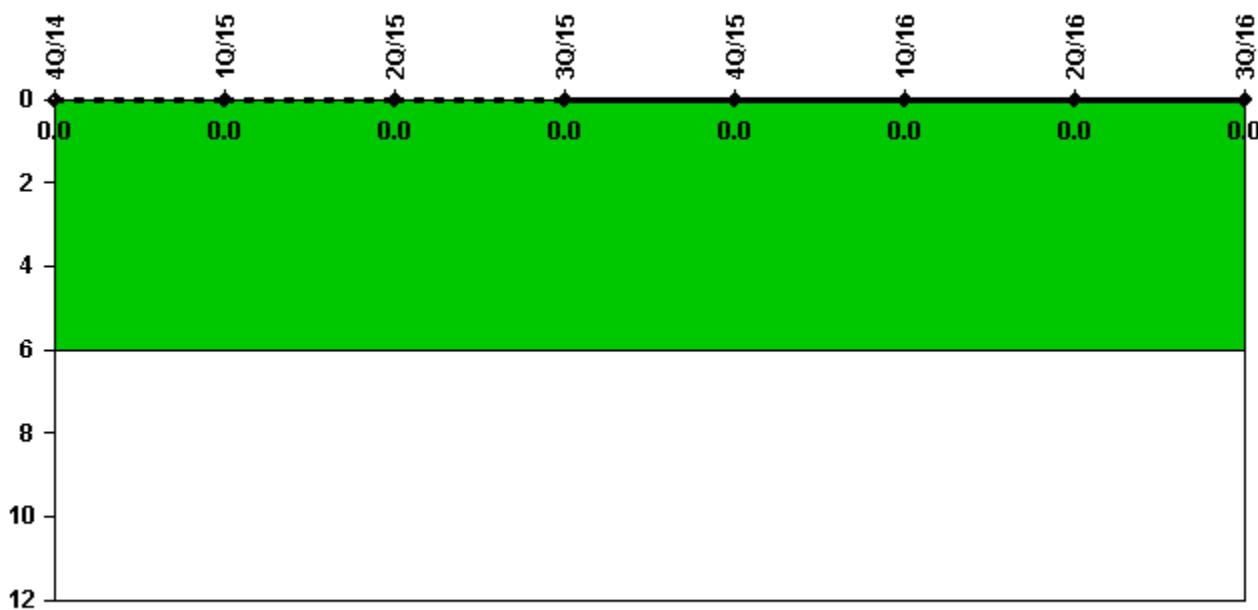
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned scrams	1.0	0	1.0	0	0	0	0	1.0
Critical hours	1975.7	1991.0	1552.2	2208.0	2209.0	2183.0	2184.0	2056.0
Indicator value	0.8	0.8	1.8	1.8	0.9	0.9	0	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



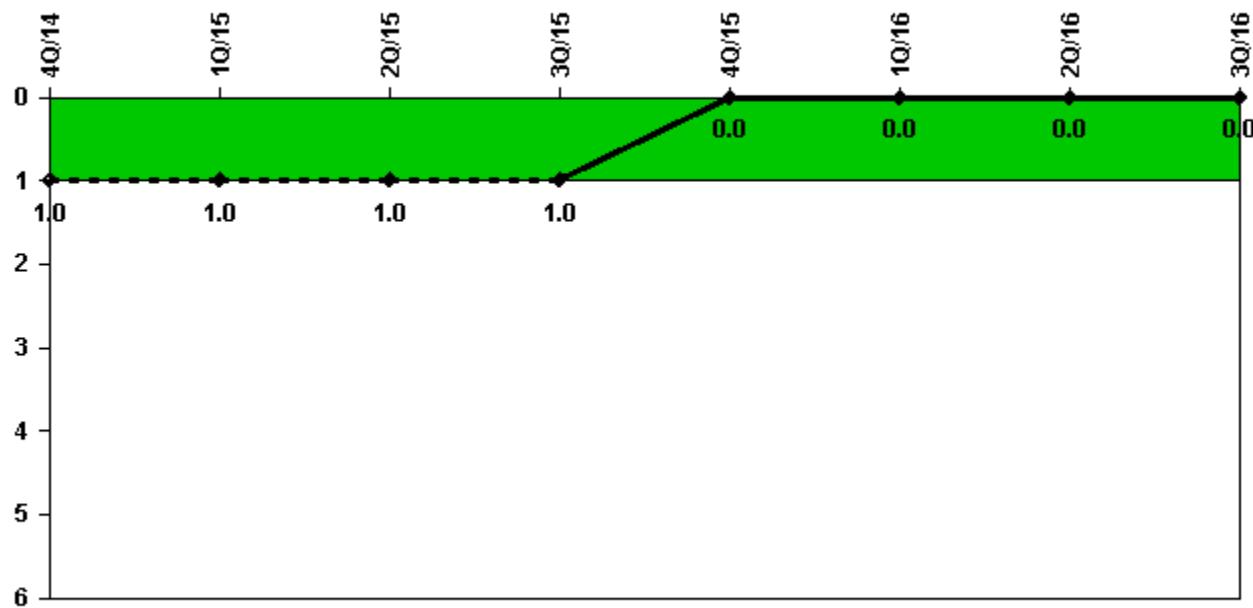
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1975.7	1991.0	1552.2	2208.0	2209.0	2183.0	2184.0	2056.0
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



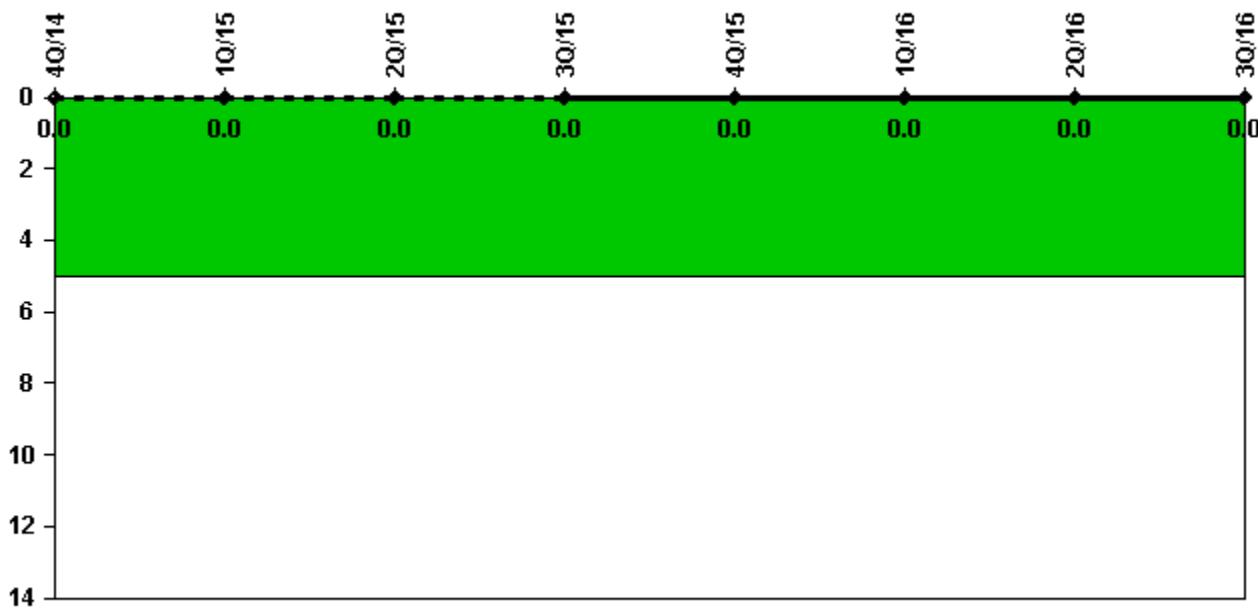
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Scrams with complications	1.0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



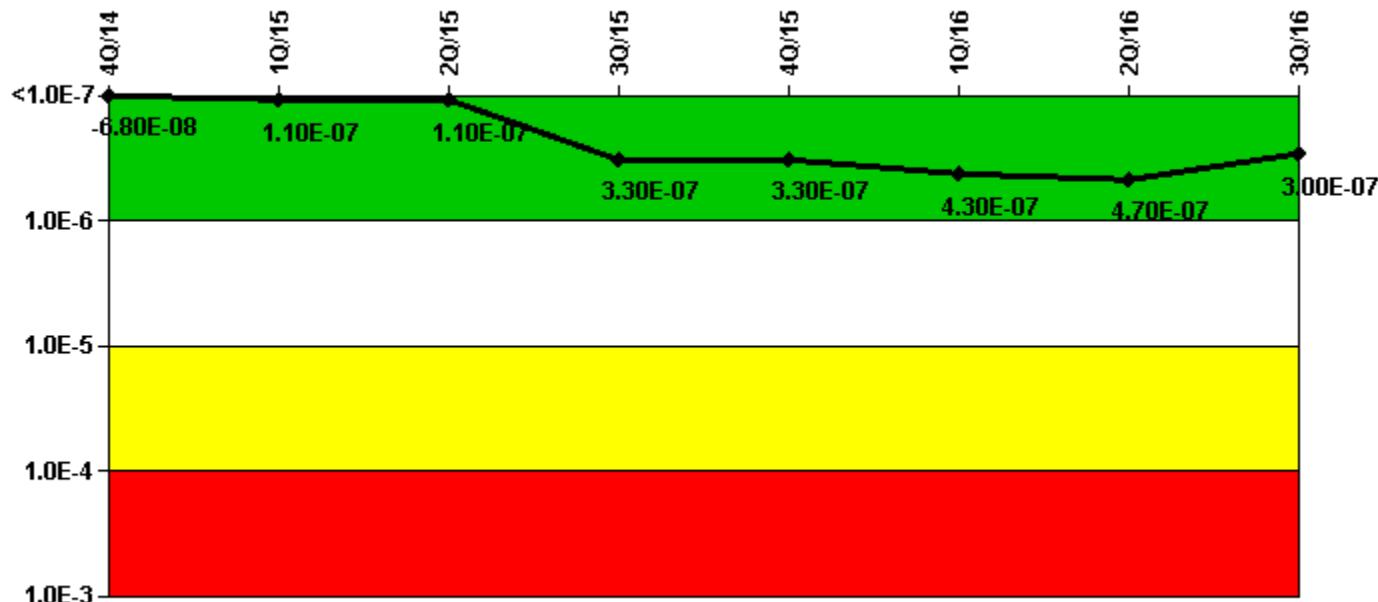
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	4.27E-10	4.20E-10	-1.54E-10	-5.74E-09	-1.81E-09	2.76E-09	5.37E-09	4.26E-09
URI (Δ CDF)	-6.83E-08	1.13E-07	1.13E-07	3.36E-07	3.36E-07	4.25E-07	4.69E-07	2.98E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.80E-08	1.10E-07	1.10E-07	3.30E-07	3.30E-07	4.30E-07	4.70E-07	3.00E-07

Licensee Comments:

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

2Q/16: Risk Cap Invoked. Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of

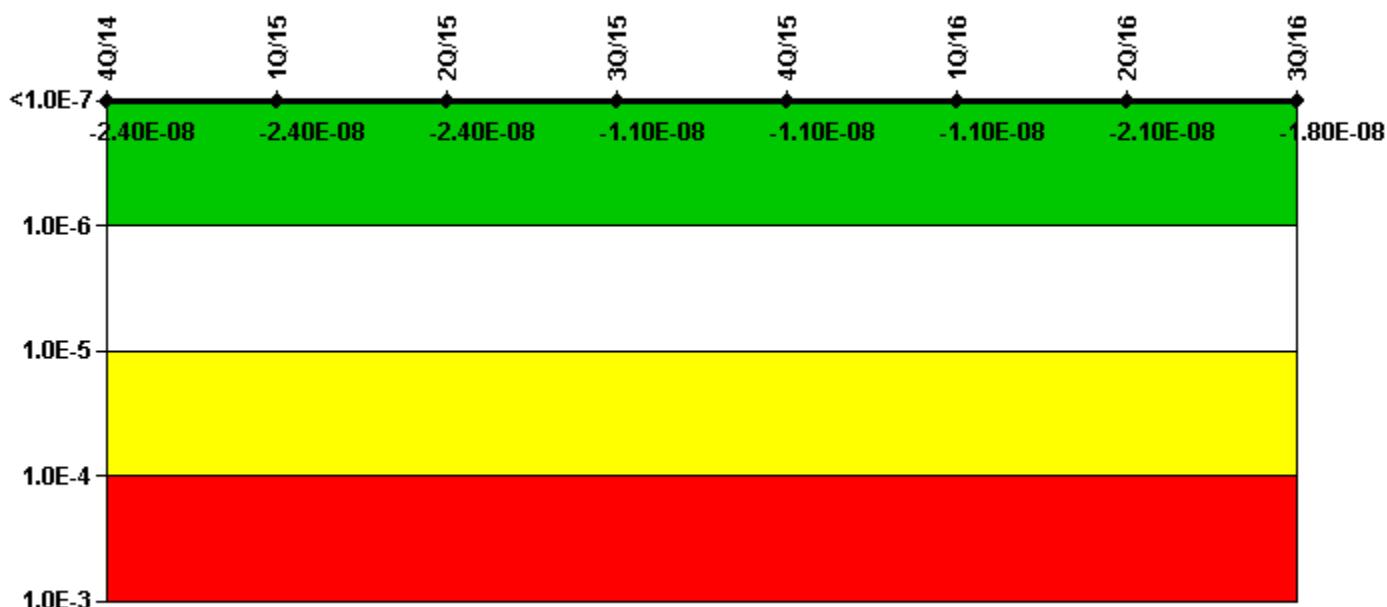
FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: Changed PRA Parameter(s). An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). Data entry errors were identified in the third quarter 2015 MSPI Parameter update for Unit 2 Emergency AC Power following submittal. As a result, the FVURC and URPC values for 2-OME-150-AB (2AB Emergency Diesel Generator) and the Failure to Run FVURC value for 2-OME-150-CD (2CD Emergency Diesel Generator) were revised for the third quarter 2015. The Unit 2 EAC MSPI color remained green following this change.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	-2.11E-11	-2.11E-11	-2.11E-11	-1.43E-09	-1.43E-09	-1.43E-09	-3.81E-09	-2.16E-09
URI (Δ CDF)	-2.39E-08	-2.39E-08	-2.39E-08	-9.11E-09	-9.11E-09	-9.11E-09	-1.68E-08	-1.61E-08
PLE	NO							
Indicator value	-2.40E-08	-2.40E-08	-2.40E-08	-1.10E-08	-1.10E-08	-1.10E-08	-2.10E-08	-1.80E-08

Licensee Comments:

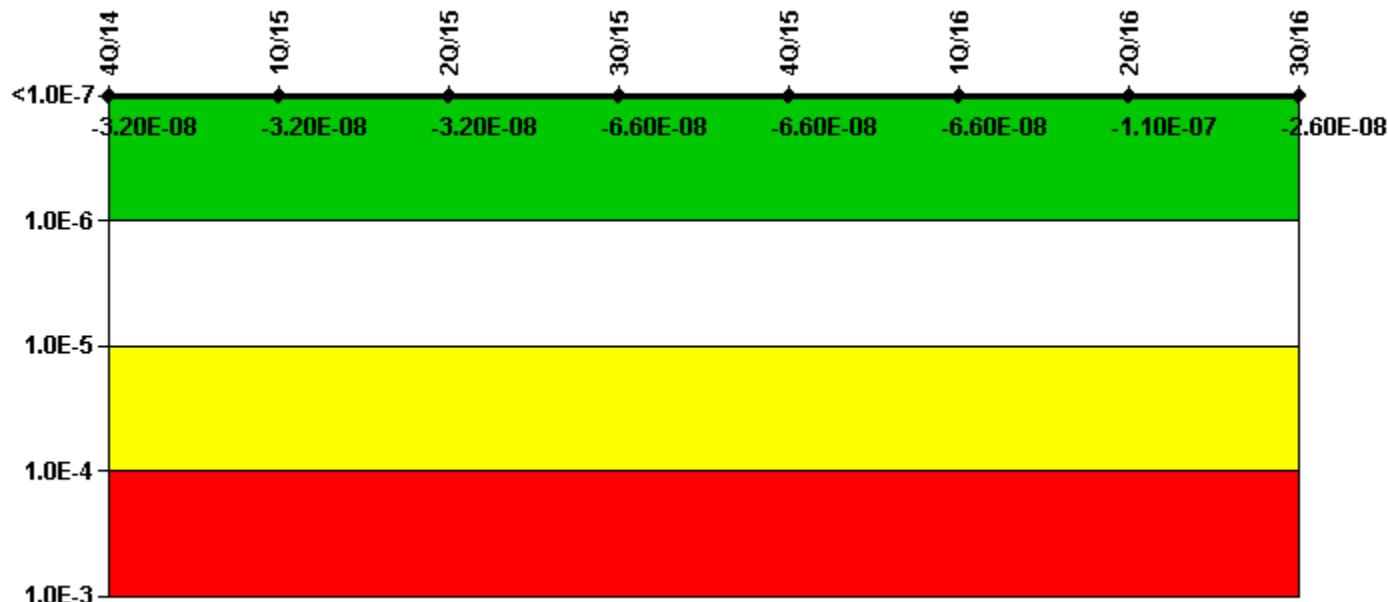
3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	1.79E-11	8.84E-12	-1.34E-11	-1.45E-08	-1.45E-08	-1.45E-08	-2.77E-08	-5.60E-09
URI (Δ CDF)	-3.23E-08	-3.23E-08	-3.23E-08	-5.15E-08	-5.15E-08	-5.15E-08	-7.92E-08	-2.01E-08
PLE	NO							
Indicator value	-3.20E-08	-3.20E-08	-3.20E-08	-6.60E-08	-6.60E-08	-6.60E-08	-1.10E-07	-2.60E-08

Licensee Comments:

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

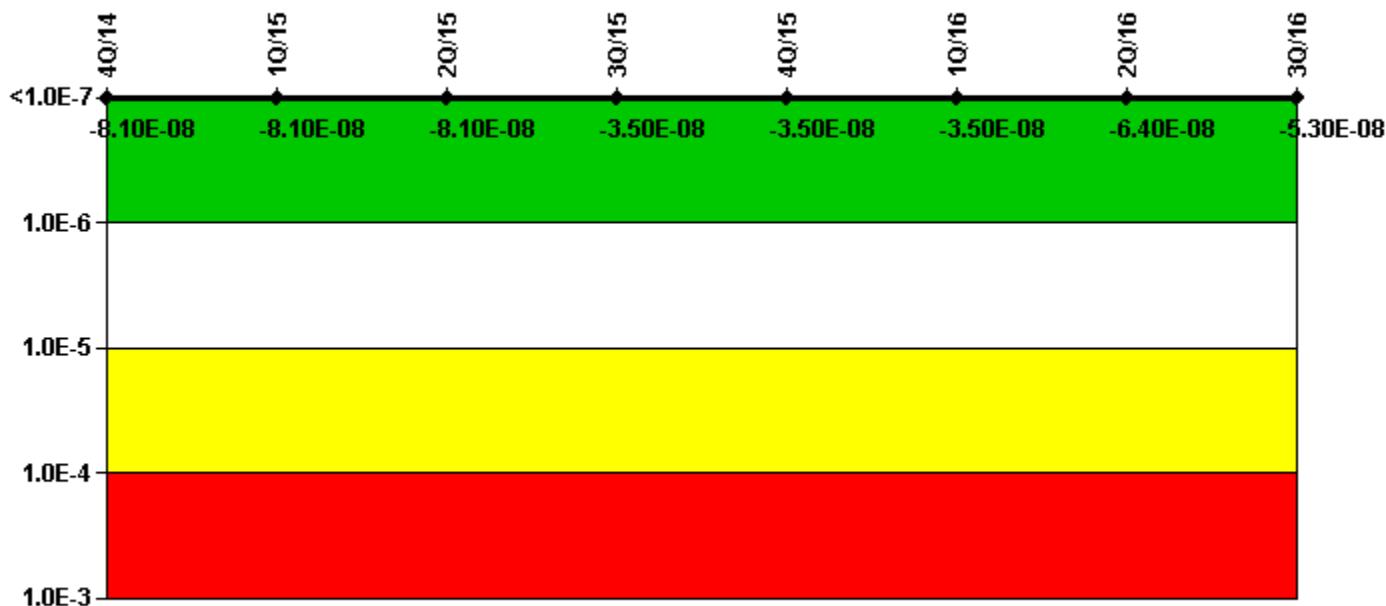
2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of

typographical errors and had no numerical or programmatic impact.

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	7.84E-13	7.46E-13	4.76E-13	-2.83E-09	-2.83E-09	-2.85E-09	1.57E-08	2.70E-08
URI (Δ CDF)	-8.12E-08	-8.12E-08	-8.12E-08	-3.18E-08	-3.22E-08	-3.25E-08	-7.98E-08	-8.02E-08

PLE	NO							
Indicator value	-8.10E-08	-8.10E-08	-8.10E-08	-3.50E-08	-3.50E-08	-3.50E-08	-6.40E-08	-5.30E-08

Licensee Comments:

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

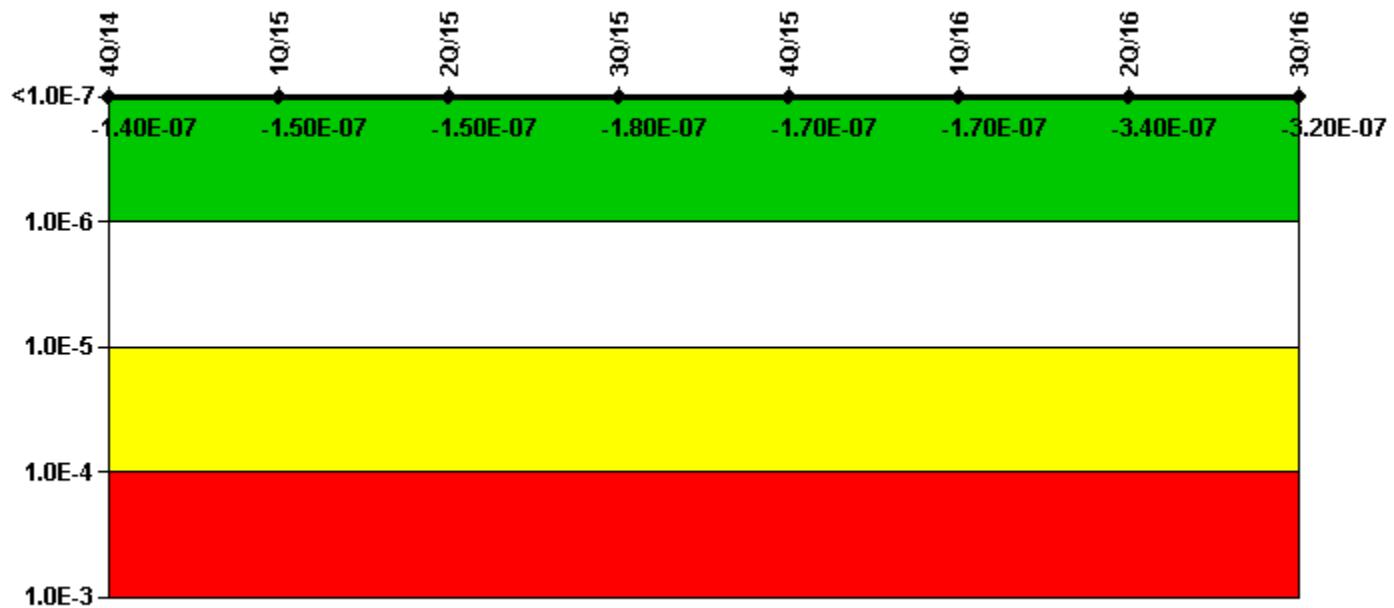
2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: Changed PRA Parameter(s). An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). Data entry errors were identified in the third quarter 2015 MSPI Parameter update for Unit 2 Residual Heat Removal following submittal. As a result, the FVURC and URPC values for 2-ICM-305 (Unit 2 Recirculation Sump to East RHR/CTS Pumps Suction Containment Isolation Valve), the FVURC and URPC values for 2-IMO-390 (Unit 2 Refueling Water Storage Tank TK-33 To Residual Heat Removal Pumps Suction Shutoff Valve), and the Common Cause Factor for 2-CMO-429 (Unit 2 West Residual Heat Removal Heat Exchanger Component Cooling Water outlet Shutoff Valve) were revised for the third quarter 2015. The Unit 2 RHR MSPI color remained green following these changes.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised. The RHR scope of monitored components was revised. 1/2-CMO-419 and 1/2-CMO-429, RHR Heat Exchanger CCW Outlet Valves, are now included in the scope of monitored components based on their Birnbaum importance. 1/2-ICM-311 and 1/2-ICM-321, RHR Pump Discharge MOVs, are removed from the scope of monitored components since they do not have an active safety function modeled in the PRA.

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	-3.46E-11	-5.33E-11	-5.34E-11	-8.51E-08	-8.01E-08	-7.27E-08	-1.57E-07	-1.47E-07
URI (Δ CDF)	-1.39E-07	-1.48E-07	-1.49E-07	-9.27E-08	-9.31E-08	-9.34E-08	-1.81E-07	-1.70E-07
PLE	NO							
Indicator value	-1.40E-07	-1.50E-07	-1.50E-07	-1.80E-07	-1.70E-07	-1.70E-07	-3.40E-07	-3.20E-07

Licensee Comments:

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and

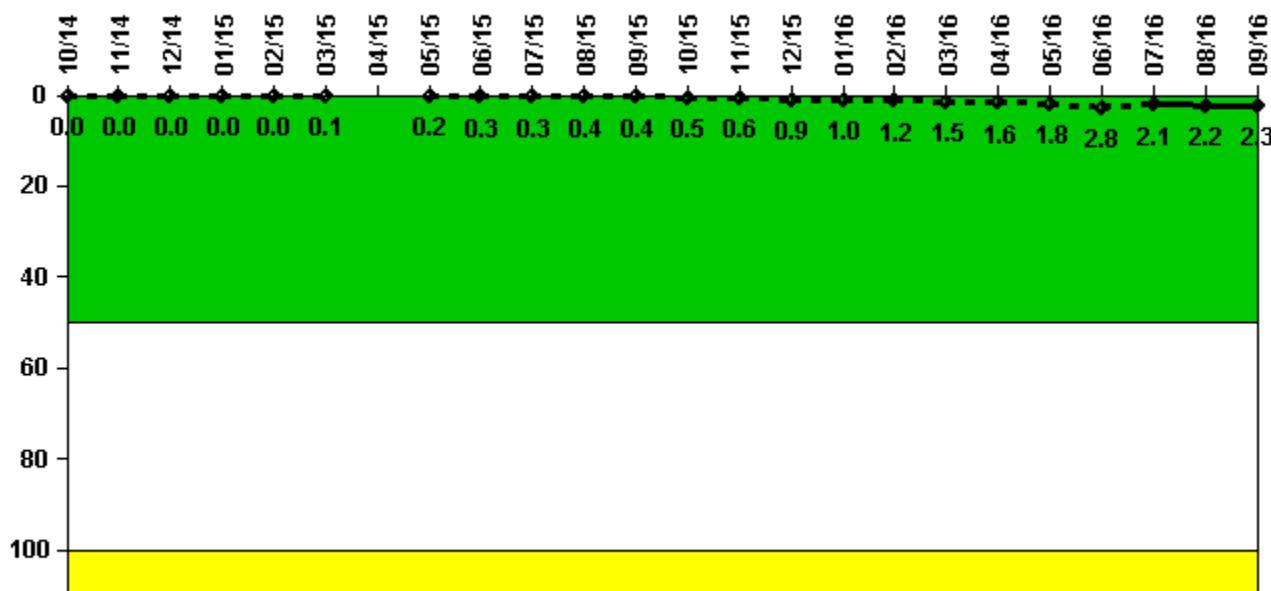
observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

1Q/15: The MSPI Basis Document was updated in the 4th Quarter 2014 to reflect 2009 PRA model of record error that the PRA model incorrectly removed cutsets associated with failure of the CCW heat exchanger CCW outlet valves (2-CMO-410 & 420) opening from model results. As a result, these valves have been incorporated in the Unit 2 Cooling Water System scope of monitored components.

Reactor Coolant System Activity

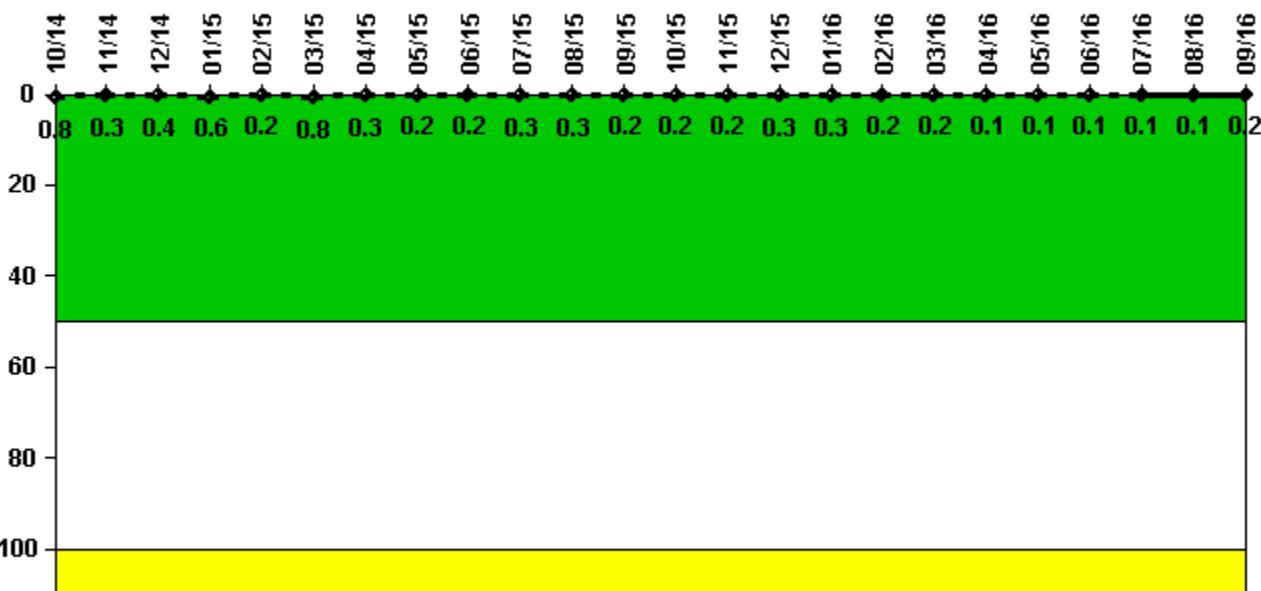


Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum activity	0.000131	0.000137	0.000162	0.000145	0.000149	0.000197	N/A	0.000662	0.001160	0.001090	0.001290	0.001420
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0	0	0	0.1	N/A	0.2	0.3	0.3	0.4	0.4
Reactor Coolant System Activity	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum activity	0.001750	0.002240	0.003130	0.003570	0.004090	0.005100	0.005680	0.006340	0.009910	0.007240	0.007810	0.008130
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0.5	0.6	0.9	1.0	1.2	1.5	1.6	1.8	2.8	2.1	2.2	2.3

Licensee Comments: none

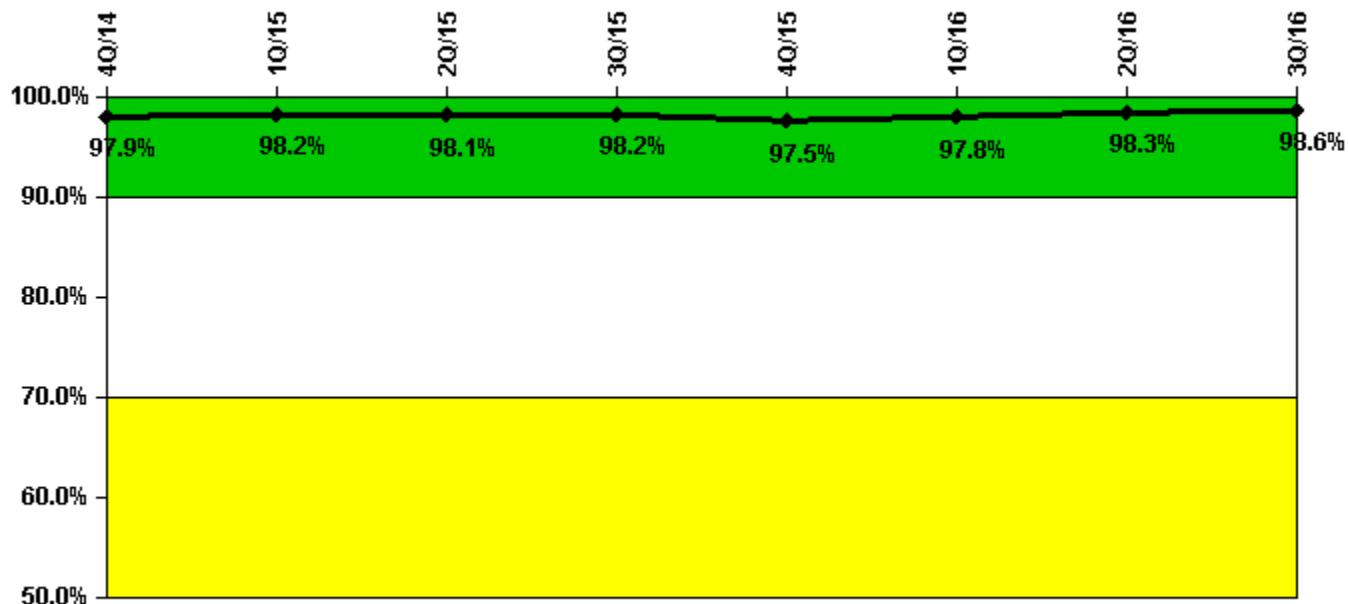
Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum leakage	0.084	0.028	0.041	0.064	0.025	0.085	0.037	0.024	0.023	0.028	0.031	0.018
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.8	0.3	0.4	0.6	0.2	0.8	0.3	0.2	0.2	0.3	0.3	0.2
Reactor Coolant System Leakage	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum leakage	0.024	0.022	0.031	0.034	0.019	0.018	0.014	0.015	0.011	0.010	0.007	0.025
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.2	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

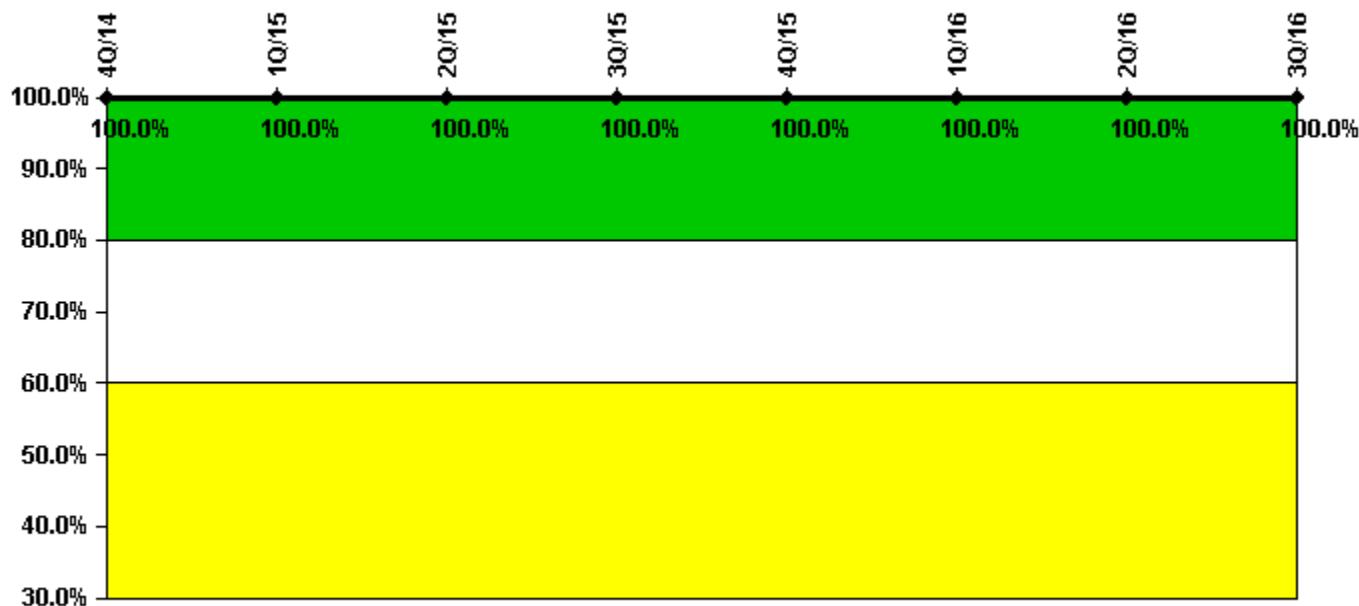
Notes

Drill/Exercise Performance	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful opportunities	56.0	68.0	12.0	62.0	56.0	62.0	34.0	81.0
Total opportunities	56.0	69.0	12.0	62.0	60.0	62.0	34.0	82.0

Indicator value	97.9%	98.2%	98.1%	98.2%	97.5%	97.8%	98.3%	98.6%
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Licensee Comments: none

ERO Drill Participation



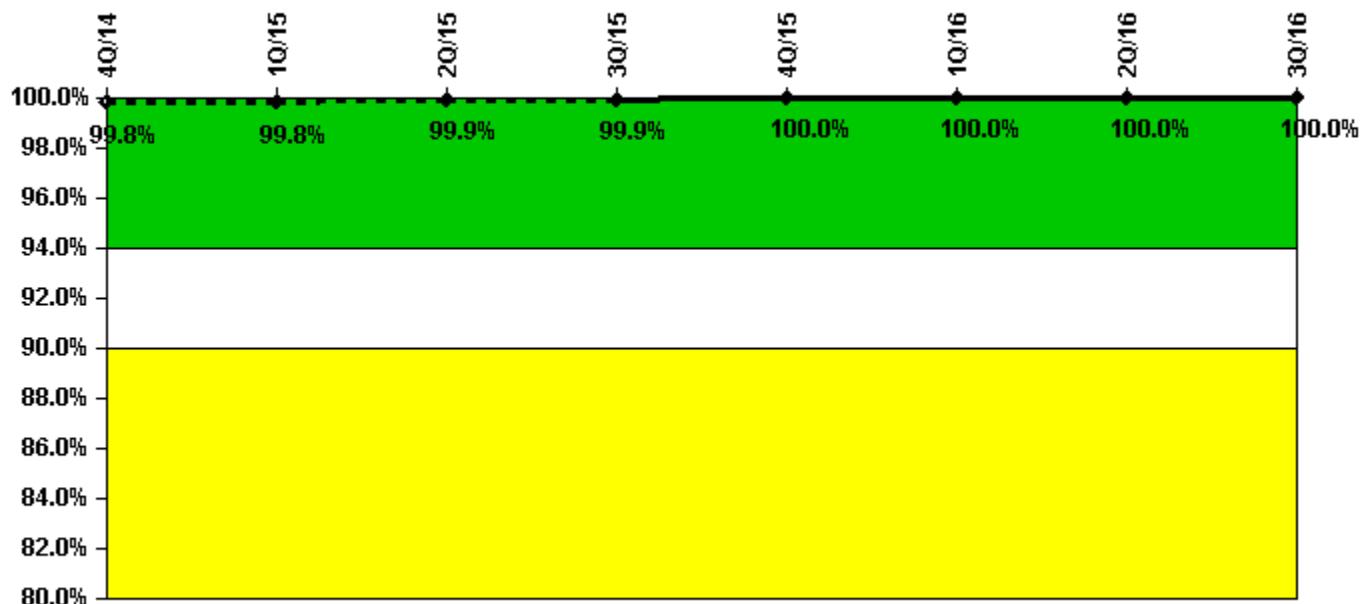
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Participating Key personnel	128.0	133.0	134.0	132.0	132.0	132.0	109.0	115.0
Total Key personnel	128.0	133.0	134.0	132.0	132.0	132.0	109.0	115.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



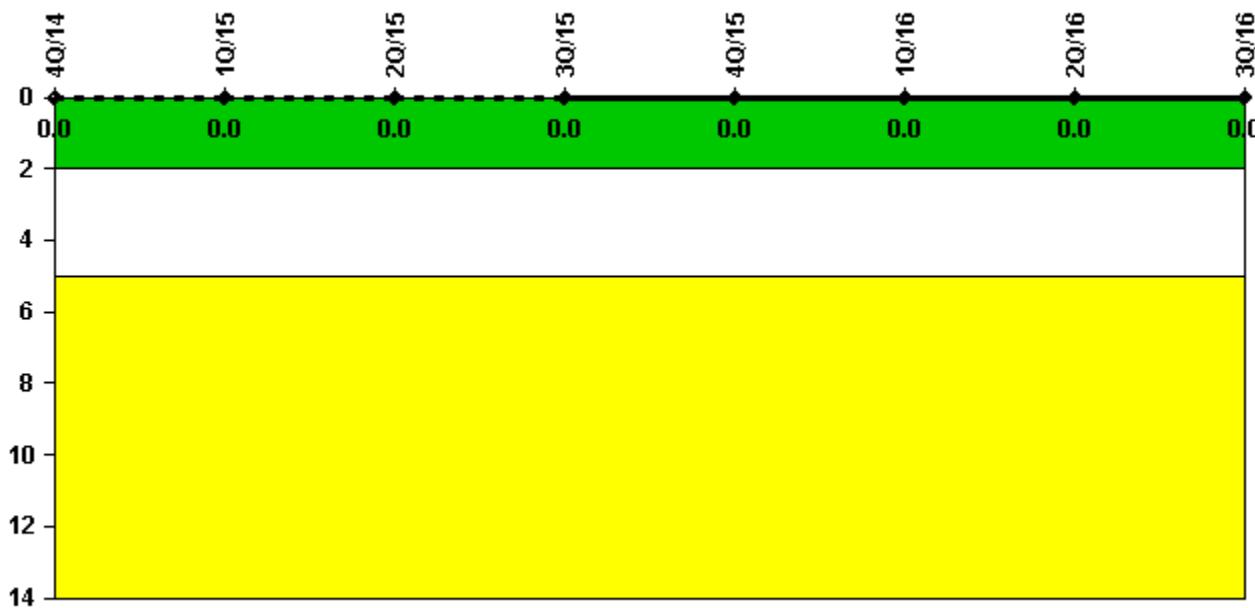
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful siren-tests	1187	1050	1119	1190	1120	1119	1119	1050
Total sirens-tests	1190	1050	1119	1190	1120	1120	1119	1050
Indicator value	99.8%	99.8%	99.9%	99.9%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



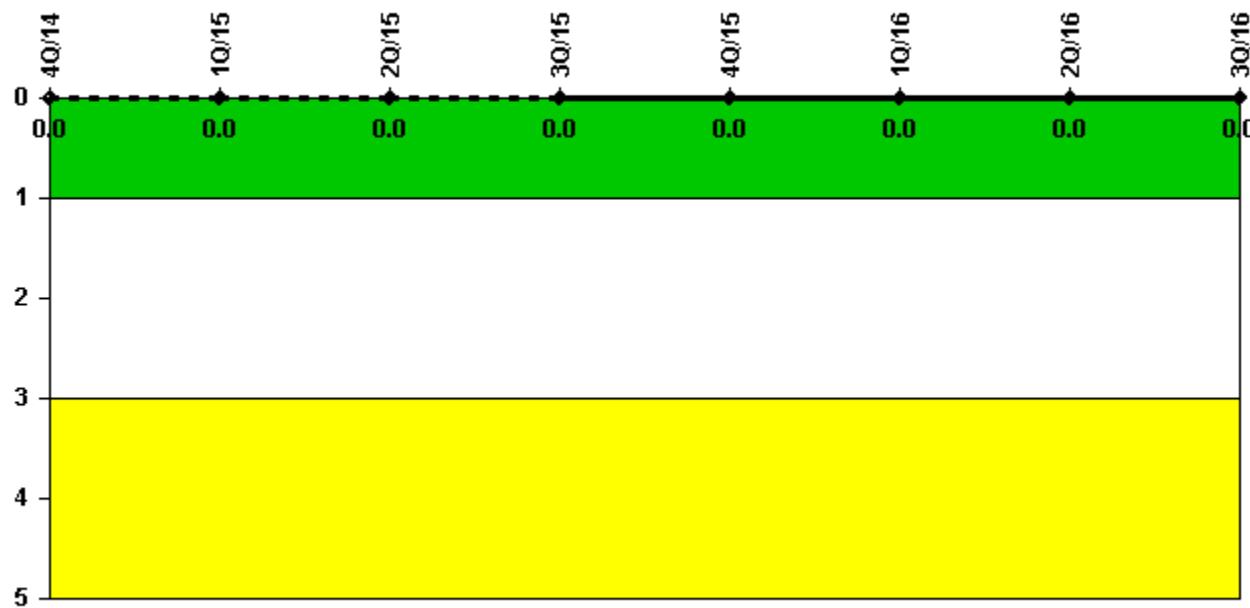
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: October 23, 2016

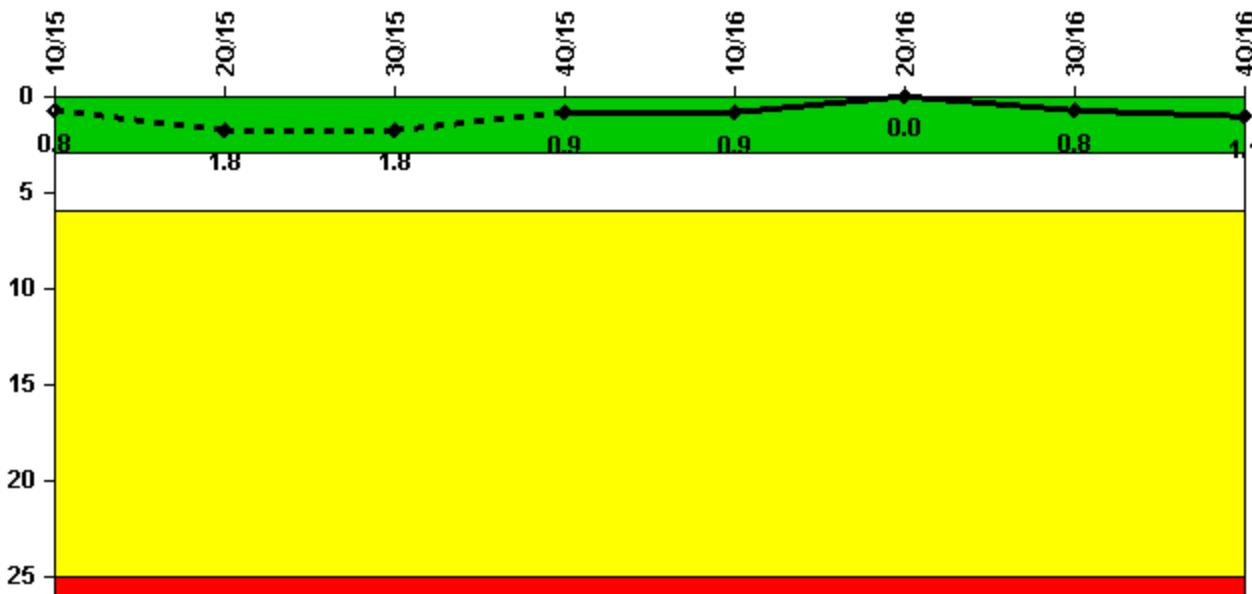
D.C. Cook 2

4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



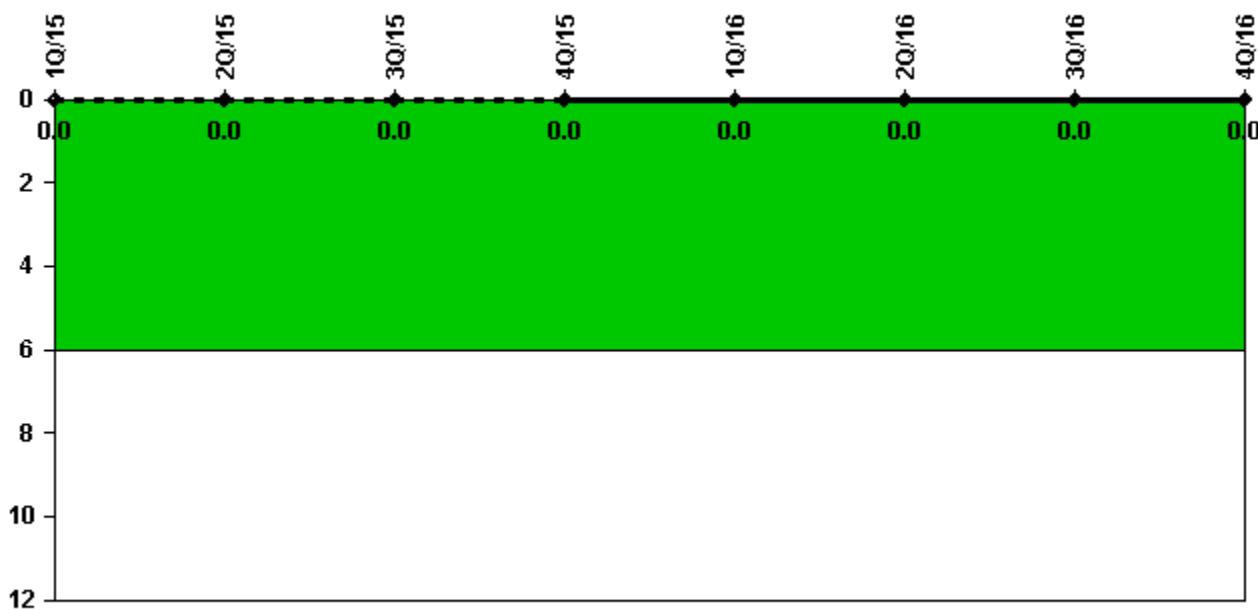
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned scrams	0	1.0	0	0	0	0	1.0	0
Critical hours	1991.0	1552.2	2208.0	2209.0	2183.0	2184.0	2056.0	96.0
Indicator value	0.8	1.8	1.8	0.9	0.9	0	0.8	1.1

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



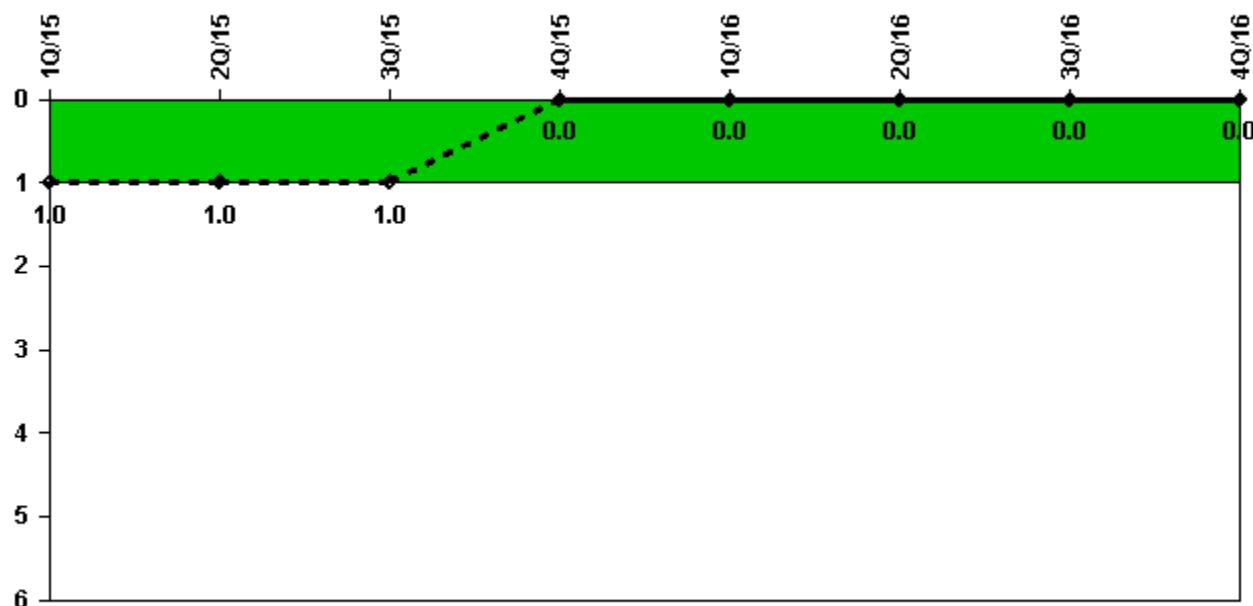
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1991.0	1552.2	2208.0	2209.0	2183.0	2184.0	2056.0	96.0
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



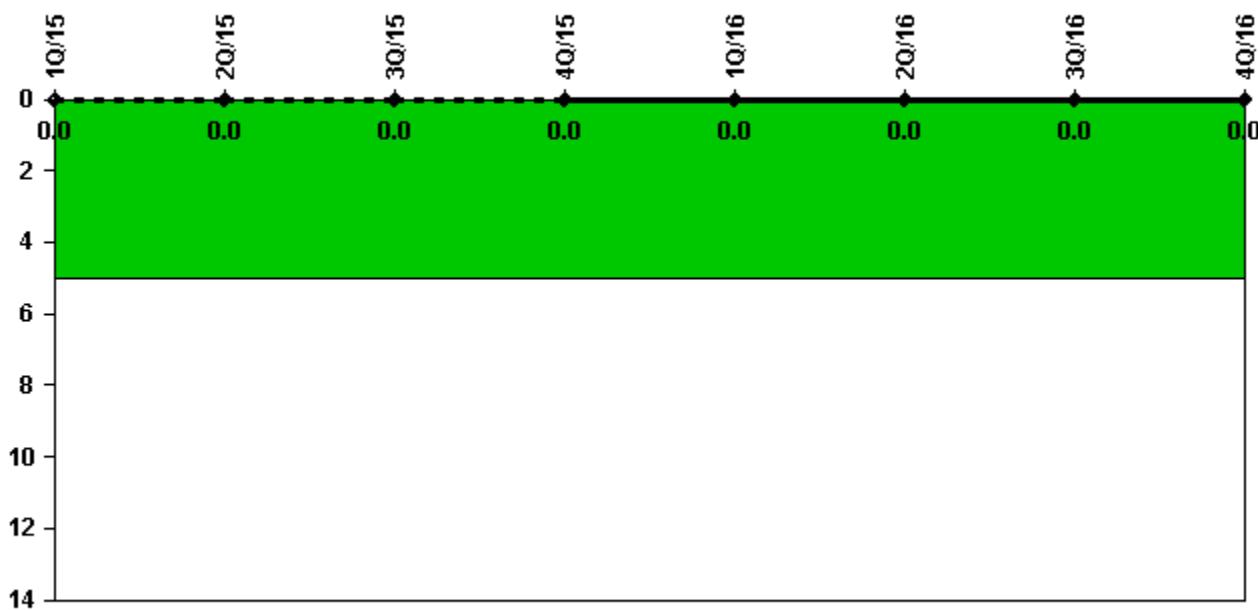
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



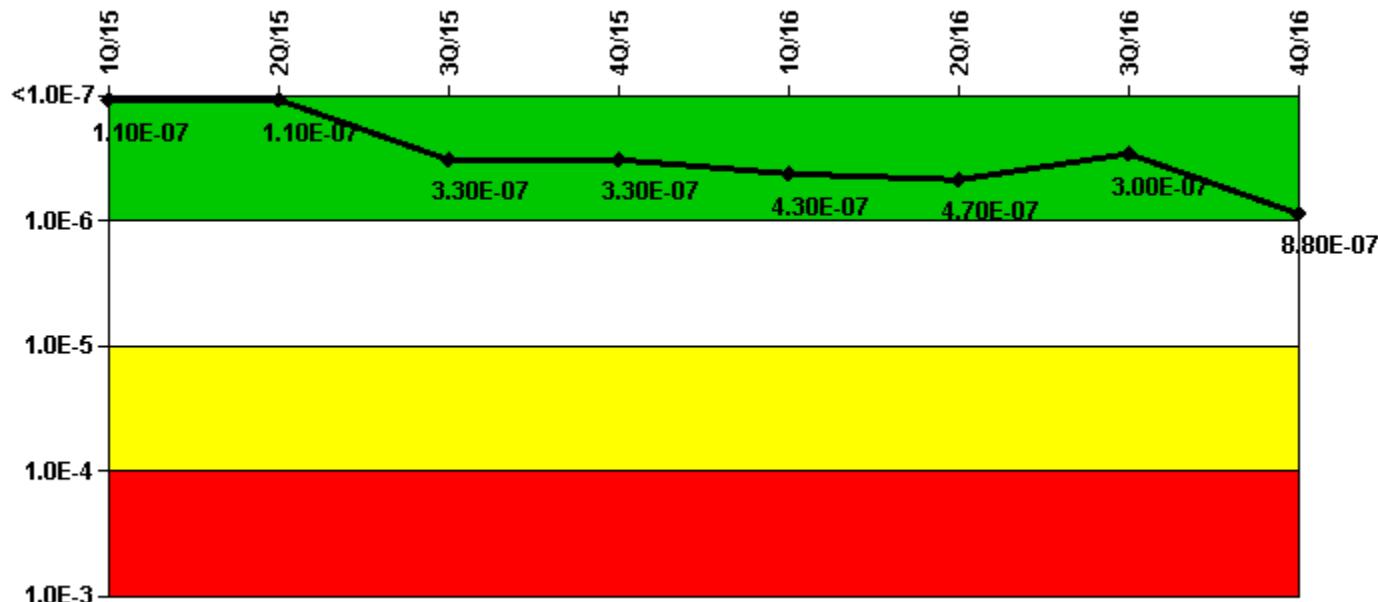
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	4.20E-10	-1.54E-10	-5.74E-09	-1.81E-09	2.76E-09	5.37E-09	4.26E-09	2.26E-09
URI (Δ CDF)	1.13E-07	1.13E-07	3.36E-07	3.36E-07	4.25E-07	4.69E-07	2.98E-07	8.77E-07
PLE	NO							
Indicator value	1.10E-07	1.10E-07	3.30E-07	3.30E-07	4.30E-07	4.70E-07	3.00E-07	8.80E-07

Licensee Comments:

4Q/16: Engineering testing is being conducted on the fuel injection pump delivery valve holders to evaluate a design and manufacturing issue which will determine the impact on the run time failures being reported. Run time failures are being reported conservatively pending the results of this testing.

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

2Q/16: Risk Cap Invoked. Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains

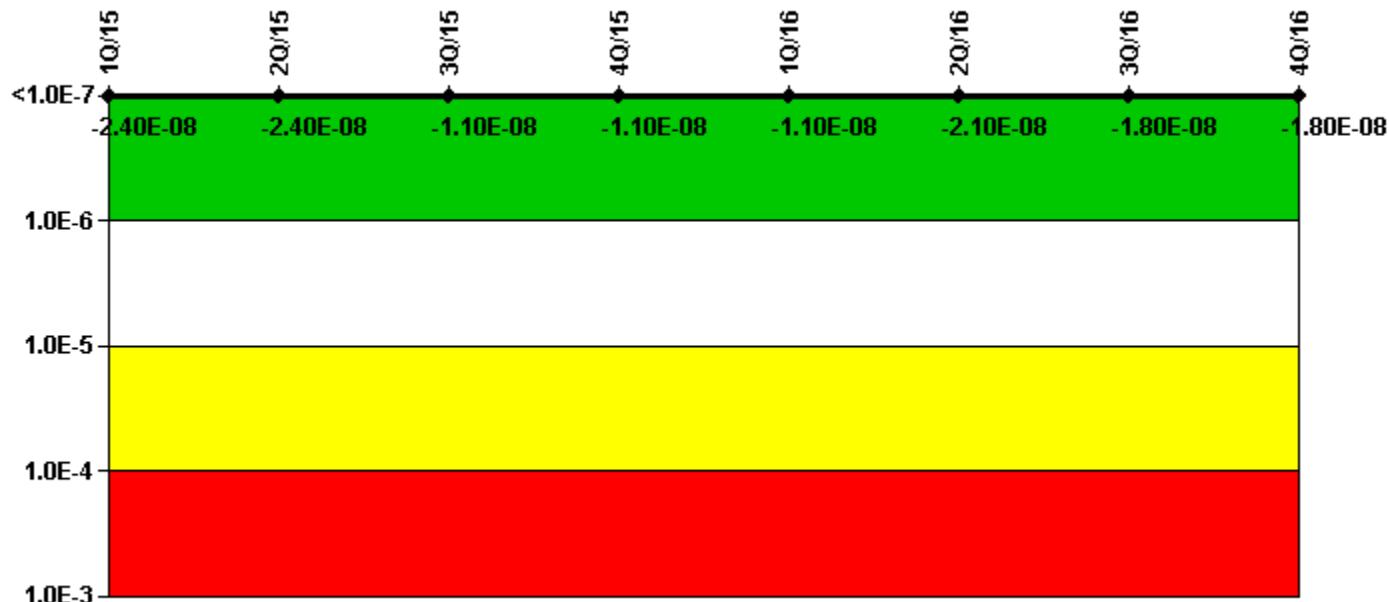
and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: Changed PRA Parameter(s). An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). Data entry errors were identified in the third quarter 2015 MSPI Parameter update for Unit 2 Emergency AC Power following submittal. As a result, the FVURC and URPC values for 2-OME-150-AB (2AB Emergency Diesel Generator) and the Failure to Run FVURC value for 2-OME-150-CD (2CD Emergency Diesel Generator) were revised for the third quarter 2015. The Unit 2 EAC MSPI color remained green following this change.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-2.11E-11	-2.11E-11	-1.43E-09	-1.43E-09	-1.43E-09	-3.81E-09	-2.16E-09	-1.92E-09
URI (Δ CDF)	-2.39E-08	-2.39E-08	-9.11E-09	-9.11E-09	-9.11E-09	-1.68E-08	-1.61E-08	-1.61E-08
PLE	NO							
Indicator value	-2.40E-08	-2.40E-08	-1.10E-08	-1.10E-08	-1.10E-08	-2.10E-08	-1.80E-08	-1.80E-08

Licensee Comments:

4Q/16: Changed PRA Parameter(s).

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

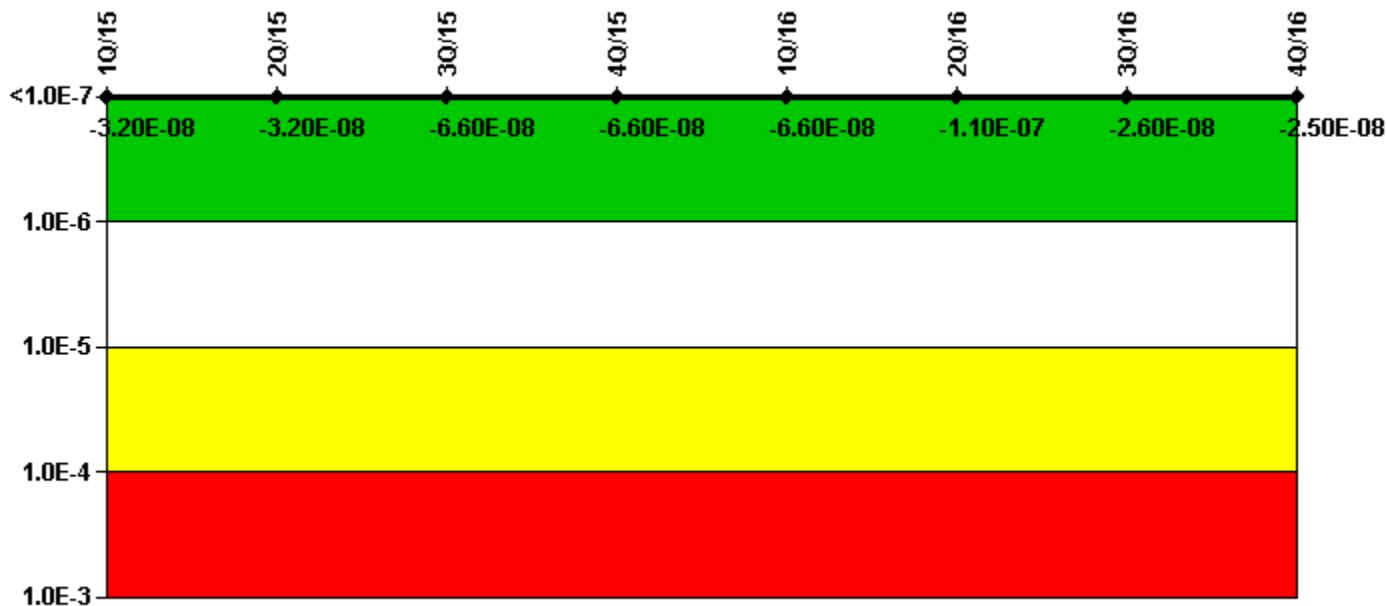
2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and

observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16

UAI (Δ CDF)	8.84E-12	-1.34E-11	-1.45E-08	-1.45E-08	-1.45E-08	-2.77E-08	-5.60E-09	-5.42E-09
URI (Δ CDF)	-3.23E-08	-3.23E-08	-5.15E-08	-5.15E-08	-5.15E-08	-7.92E-08	-2.01E-08	-2.01E-08
PLE	NO							
Indicator value	-3.20E-08	-3.20E-08	-6.60E-08	-6.60E-08	-6.60E-08	-1.10E-07	-2.60E-08	-2.50E-08

Licensee Comments:

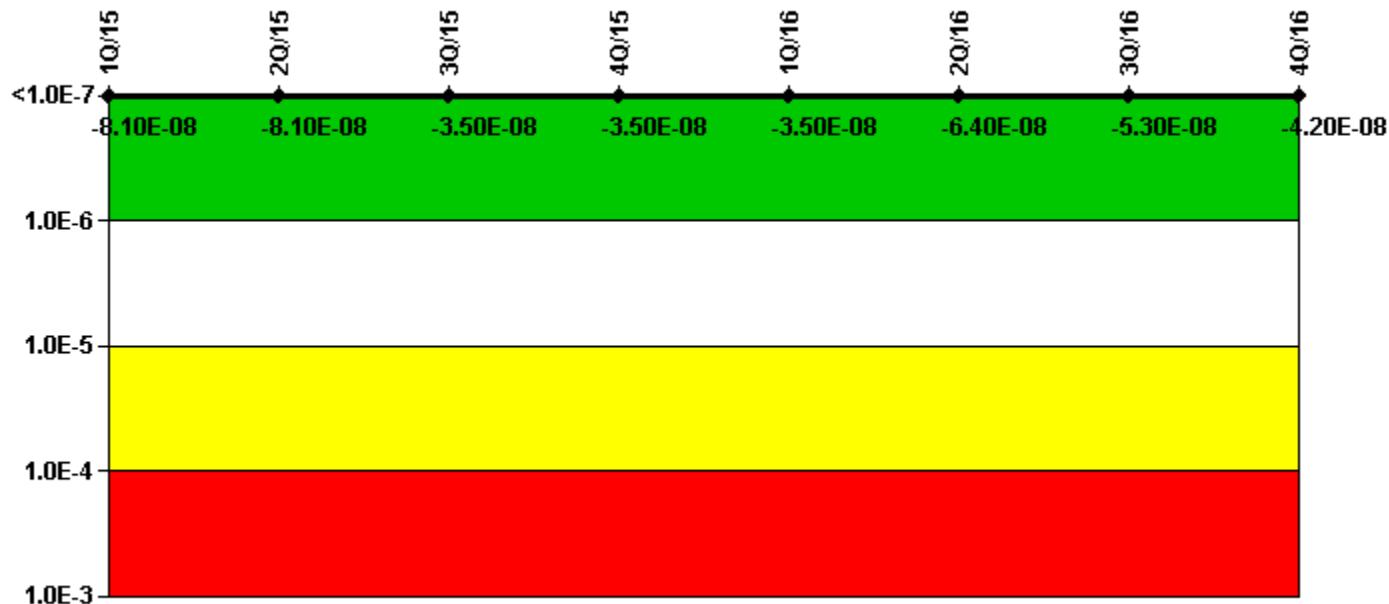
3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	7.46E-13	4.76E-13	-2.83E-09	-2.83E-09	-2.85E-09	1.57E-08	2.70E-08	3.95E-08
URI (Δ CDF)	-8.12E-08	-8.12E-08	-3.18E-08	-3.22E-08	-3.25E-08	-7.98E-08	-8.02E-08	-8.13E-08
PLE	NO							
Indicator value	-8.10E-08	-8.10E-08	-3.50E-08	-3.50E-08	-3.50E-08	-6.40E-08	-5.30E-08	-4.20E-08

Licensee Comments:

4Q/16: Changed PRA Parameter(s).

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and

observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: Changed PRA Parameter(s). An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). Data entry errors were identified in the third quarter 2015 MSPI Parameter update for Unit 2 Residual Heat Removal following submittal. As a result, the FVURC and URPC values for 2-ICM-305 (Unit 2 Recirculation Sump to East RHR/CTS Pumps Suction Containment Isolation Valve), the FVURC and URPC values for 2-IMO-390 (Unit 2 Refueling Water Storage Tank TK-33 To Residual Heat Removal Pumps Suction Shutoff Valve), and the Common Cause Factor for 2-CMO-429 (Unit 2 West Residual Heat Removal Heat Exchanger Component Cooling Water outlet Shutoff Valve) were revised for the third quarter 2015. The Unit 2 RHR MSPI color remained green following these changes.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised. The RHR scope of monitored components was revised. 1/2-CMO-419 and 1/2-CMO-429, RHR Heat Exchanger CCW Outlet Valves, are now included in the scope of monitored components based on their Birnbaum importance. 1/2-ICM-311 and 1/2-ICM-321, RHR Pump Discharge MOVs, are removed from the scope of monitored components since they do not have an active safety function modeled in the PRA.

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-5.33E-11	-5.34E-11	-8.51E-08	-8.01E-08	-7.27E-08	-1.57E-07	-1.47E-07	-1.45E-07
URI (Δ CDF)	-1.48E-07	-1.49E-07	-9.27E-08	-9.31E-08	-9.34E-08	-1.81E-07	-1.70E-07	-1.71E-07
PLE	NO							
Indicator value	-1.50E-07	-1.50E-07	-1.80E-07	-1.70E-07	-1.70E-07	-3.40E-07	-3.20E-07	-3.20E-07

Licensee Comments:

4Q/16: Changed PRA Parameter(s).

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and

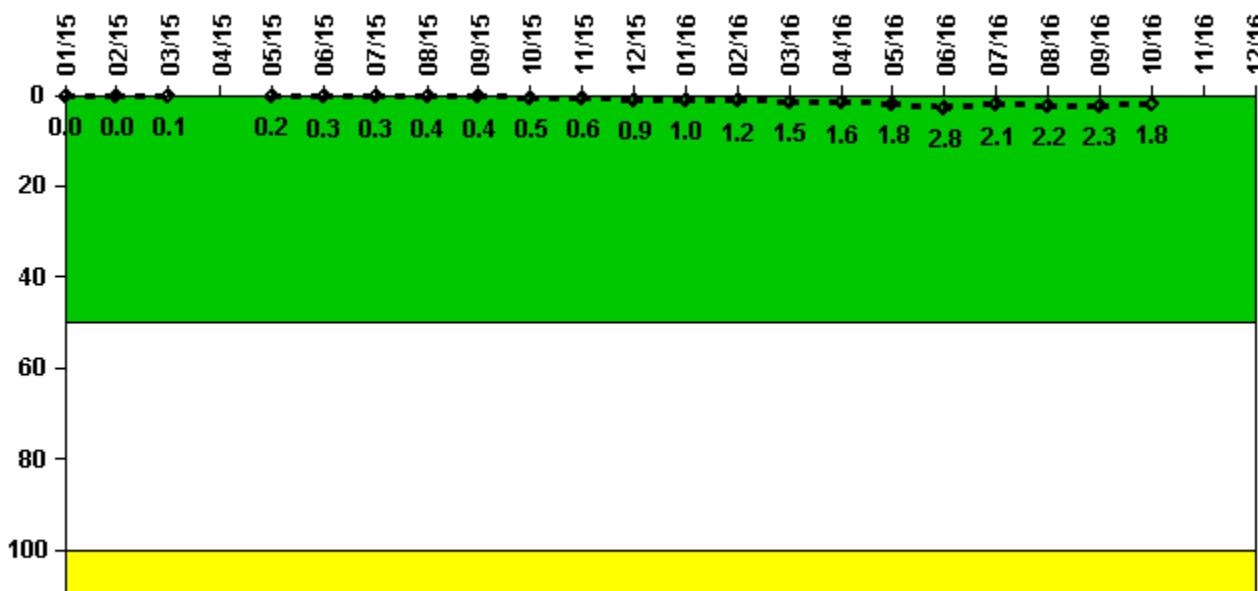
observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

1Q/15: The MSPI Basis Document was updated in the 4th Quarter 2014 to reflect 2009 PRA model of record error that the PRA model incorrectly removed cutsets associated with failure of the CCW heat exchanger CCW outlet valves (2-CMO-410 & 420) opening from model results. As a result, these valves have been incorporated in the Unit 2 Cooling Water System scope of monitored components.

Reactor Coolant System Activity

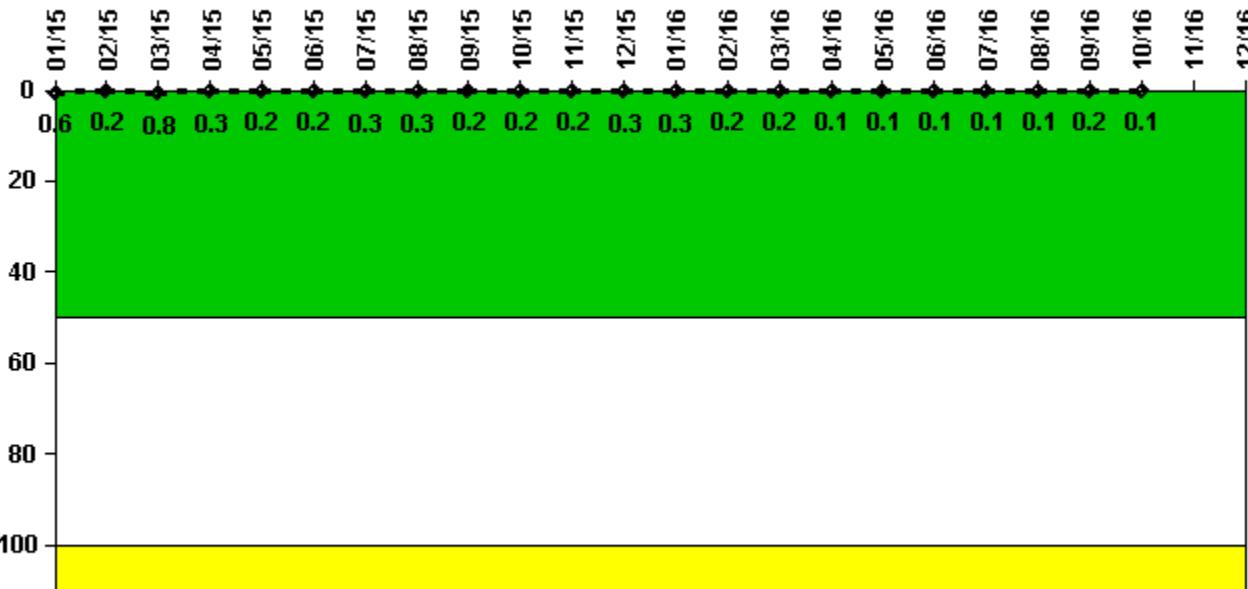


Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum activity	0.000145	0.000149	0.000197	N/A	0.000662	0.001160	0.001090	0.001290	0.001420	0.001750	0.002240	0.003130
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0	0	0.1	N/A	0.2	0.3	0.3	0.4	0.4	0.5	0.6	0.9
Reactor Coolant System Activity	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum activity	0.003570	0.004090	0.005100	0.005680	0.006340	0.009910	0.007240	0.007810	0.008130	0.006350	N/A	N/A
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	1.0	1.2	1.5	1.6	1.8	2.8	2.1	2.2	2.3	1.8	N/A	N/A

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

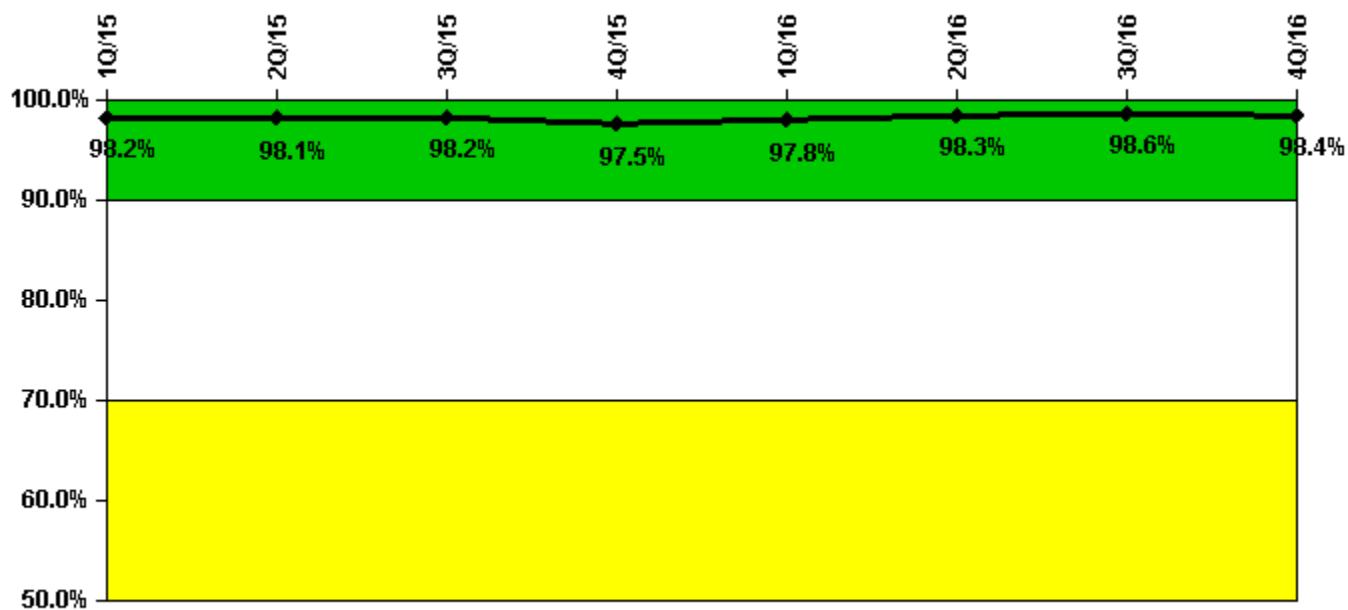
Notes

Reactor Coolant System Leakage	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15

Maximum leakage	0.064	0.025	0.085	0.037	0.024	0.023	0.028	0.031	0.018	0.024	0.022	0.031
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.6	0.2	0.8	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3
Reactor Coolant System Leakage	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum leakage	0.034	0.019	0.018	0.014	0.015	0.011	0.010	0.007	0.025	0.015	N/A	N/A
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
Indicator value	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.1	N/A	N/A

Licensee Comments: none

Drill/Exercise Performance



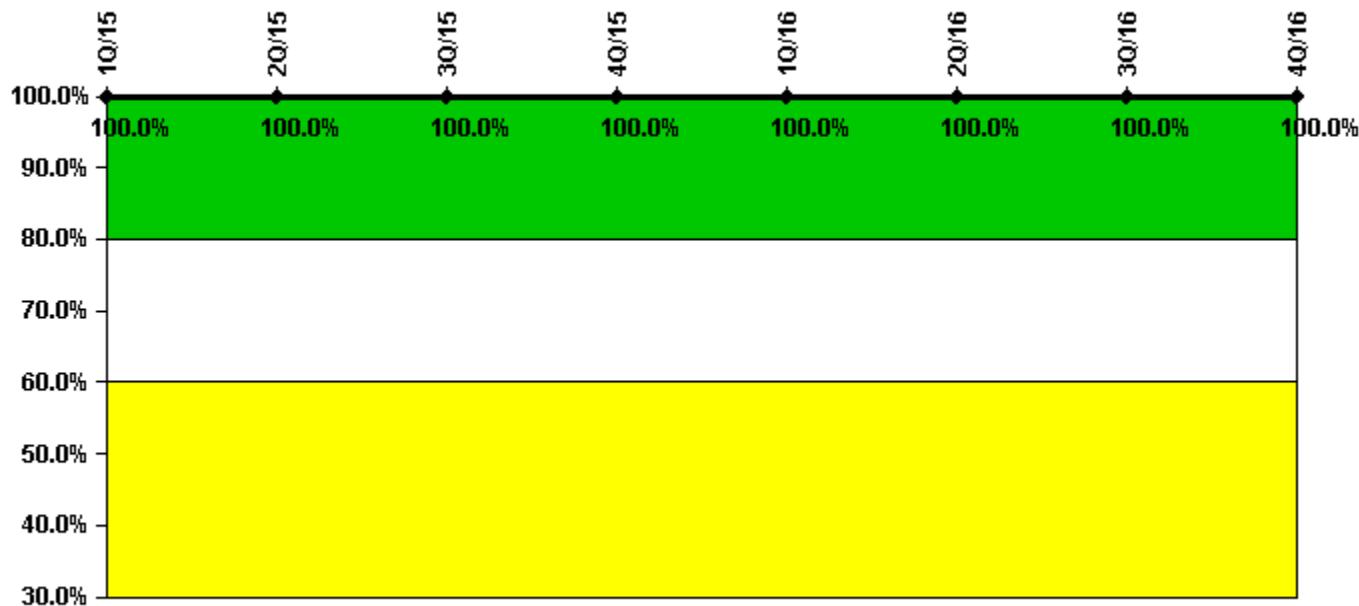
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful opportunities	68.0	12.0	62.0	56.0	62.0	34.0	81.0	1.0
Total opportunities	69.0	12.0	62.0	60.0	62.0	34.0	82.0	1.0
Indicator value	98.2%	98.1%	98.2%	97.5%	97.8%	98.3%	98.6%	98.4%

Licensee Comments: none

ERO Drill Participation



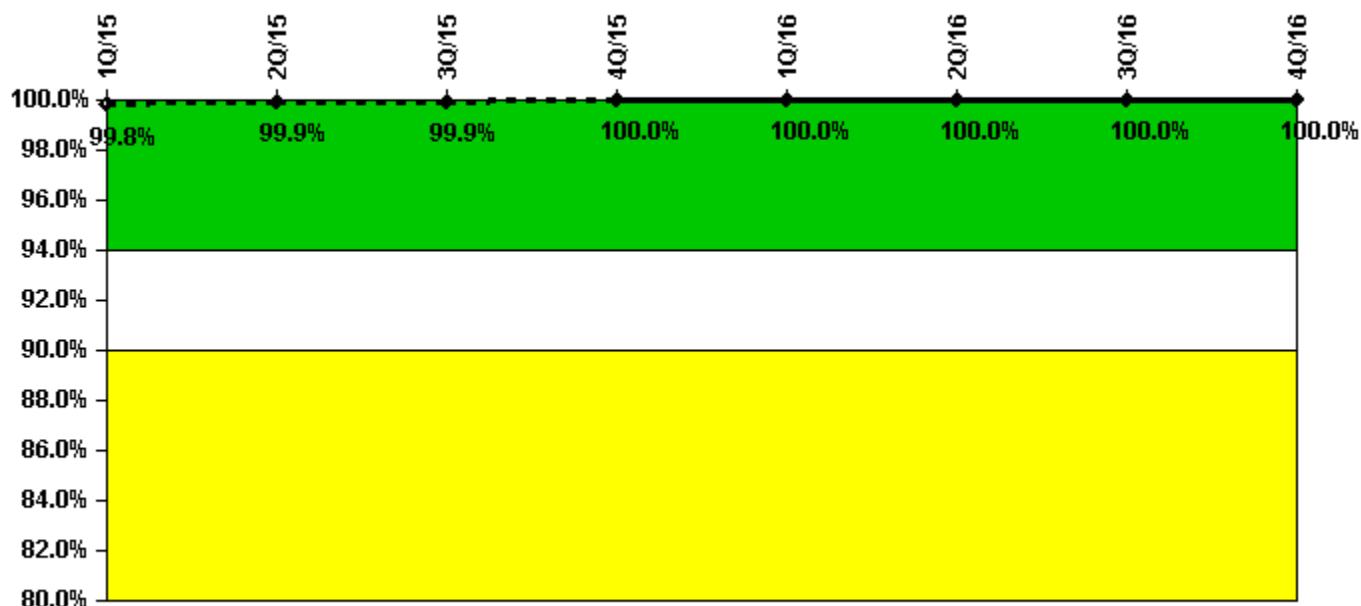
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Participating Key personnel	133.0	134.0	132.0	132.0	132.0	109.0	115.0	115.0
Total Key personnel	133.0	134.0	132.0	132.0	132.0	109.0	115.0	115.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



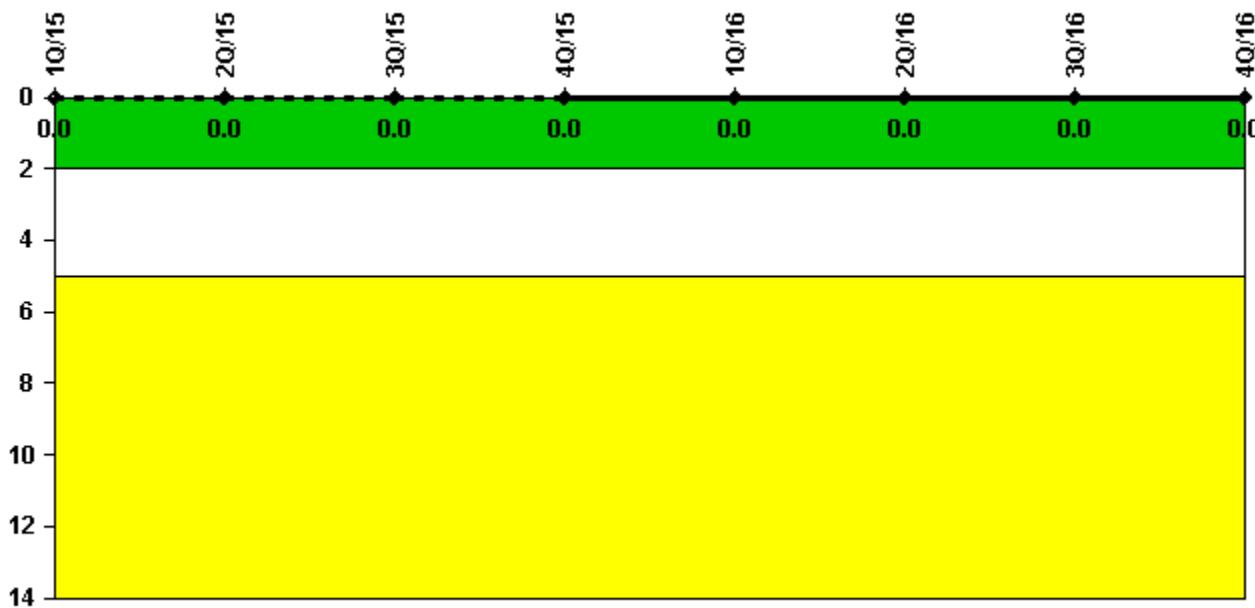
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful siren-tests	1050	1119	1190	1120	1119	1119	1050	1120
Total sirens-tests	1050	1119	1190	1120	1120	1119	1050	1120
Indicator value	99.8%	99.9%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



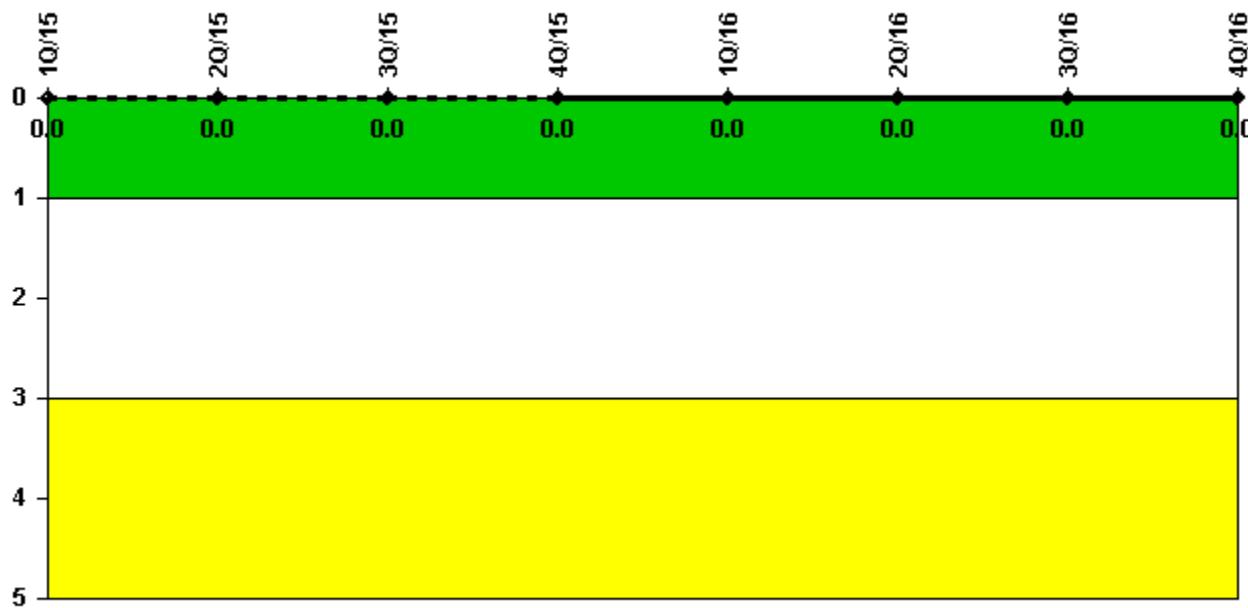
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: January 24, 2017



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries > D.C. Cook 2 > Quarterly Performance Indicators

D.C. Cook 2 – Quarterly Performance Indicators

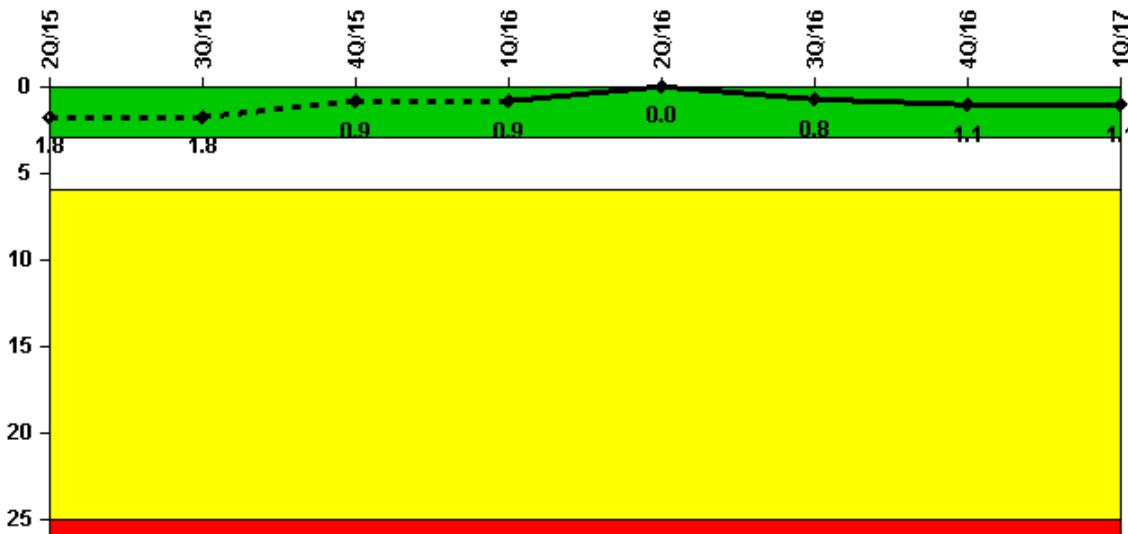
1Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes**Unplanned Scrams per 7000 Critical Hrs** 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17

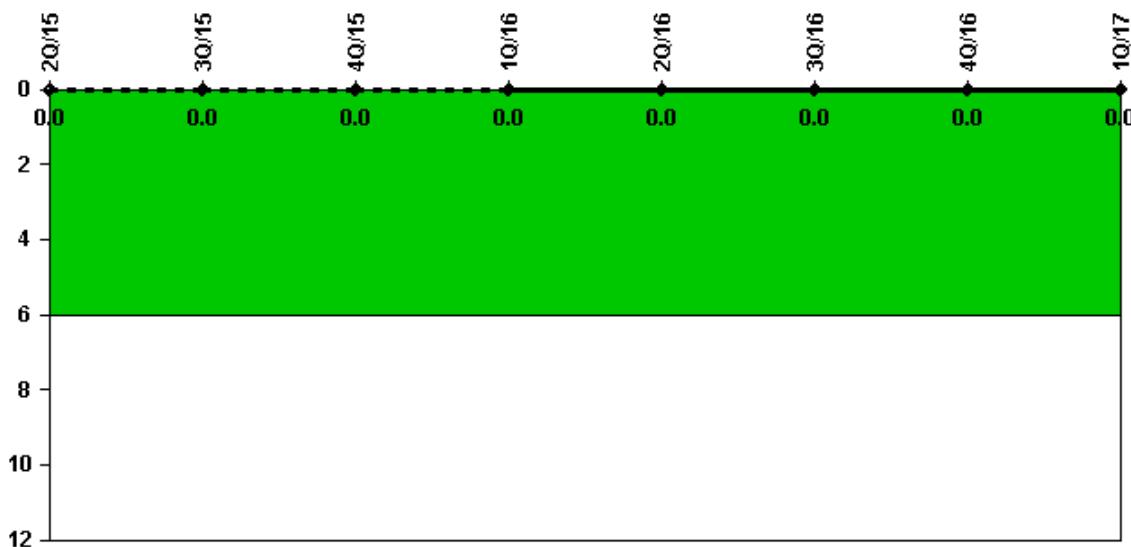
Unplanned scrams	1.0	0	0	0	0	1.0	0	0
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Critical hours	1552.2	2208.0	2209.0	2183.0	2184.0	2056.0	96.0	2152.9
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Indicator value	1.8	1.8	0.9	0.9	0	0.8	1.1	1.1
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Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

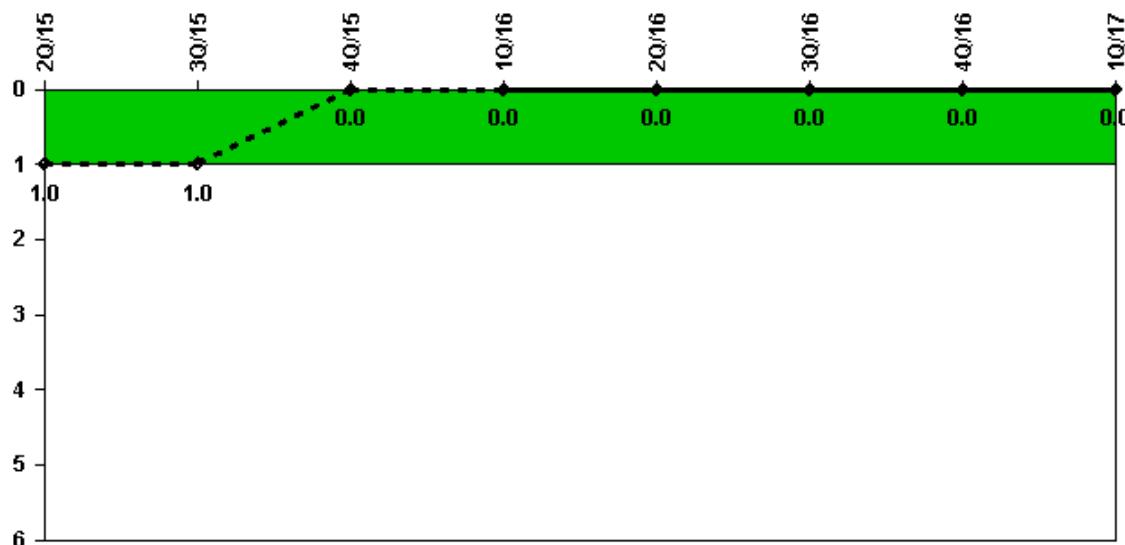
Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1552.2	2208.0	2209.0	2183.0	2184.0	2056.0	96.0	2152.9

Indicator value	0	0	0	0	0	0	0	0



Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

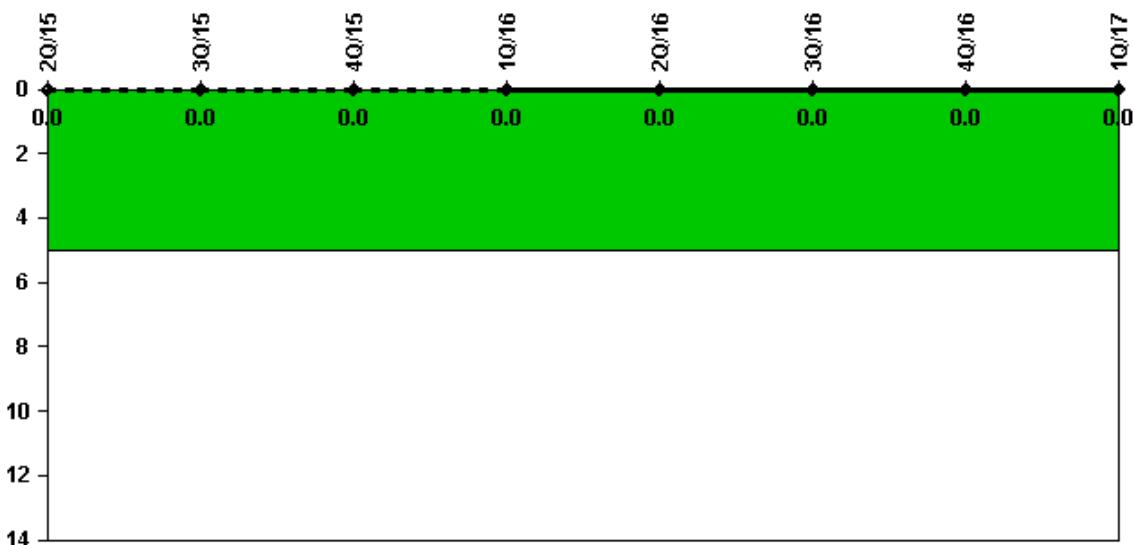
Notes

Unplanned Scrams with Complications 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17
Scrams with complications 0 0 0 0 0 0 0 0

Indicator value 1.0 1.0 0.0 0.0 0.0 0.0 0.0 0.0

TOP

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

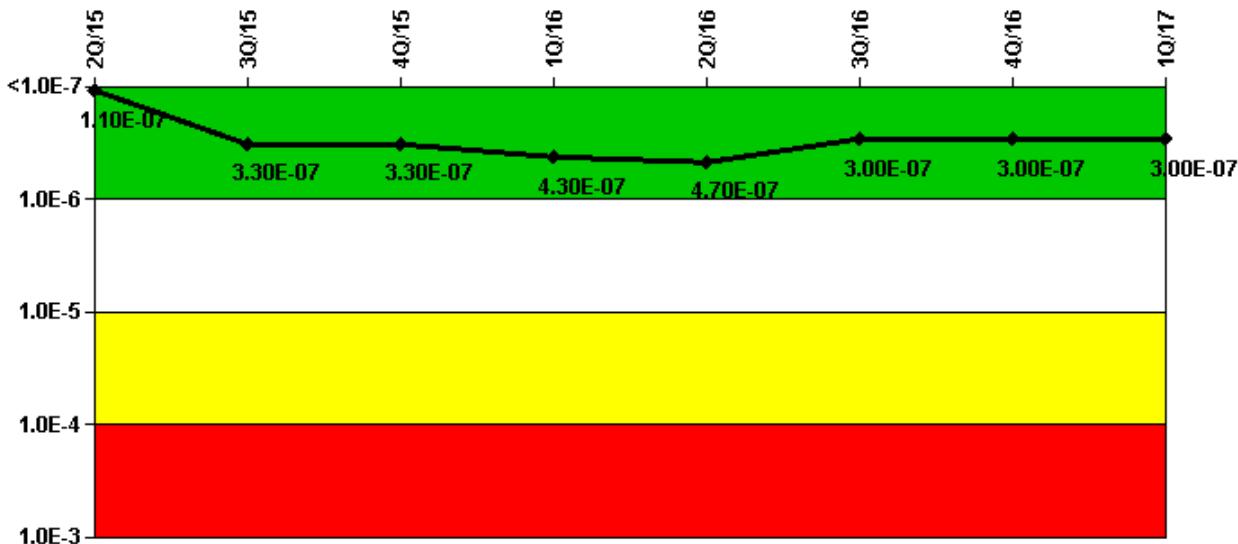
Safety System Functional Failures (PWR) 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17
Safety System Functional Failures 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

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Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (Δ CDF)	-1.54E-10	-5.74E-09	-1.81E-09	2.76E-09	5.37E-09	4.26E-09	2.26E-09	2.13E-09
URI (Δ CDF)	1.13E-07	3.36E-07	3.36E-07		4.25E-07	4.69E-07	2.98E-07	2.98E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.10E-07	3.30E-07	3.30E-07	4.30E-07	4.70E-07	3.00E-07	3.00E-07	3.00E-07

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Licensee Comments:

4Q/16: Engineering testing is being conducted on the fuel injection pump delivery valve holders to evaluate a design and manufacturing issue which will determine the impact on the run time failures being reported. Run time failures are being reported conservatively pending the results of this testing.

4Q/16: Engineering testing and analysis determined that the previously identified design and manufacturing issue with the fuel injection pump delivery valve holders did not result in a run time failure for any of the emergency diesel generators.

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

2Q/16: Risk Cap Invoked. Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from

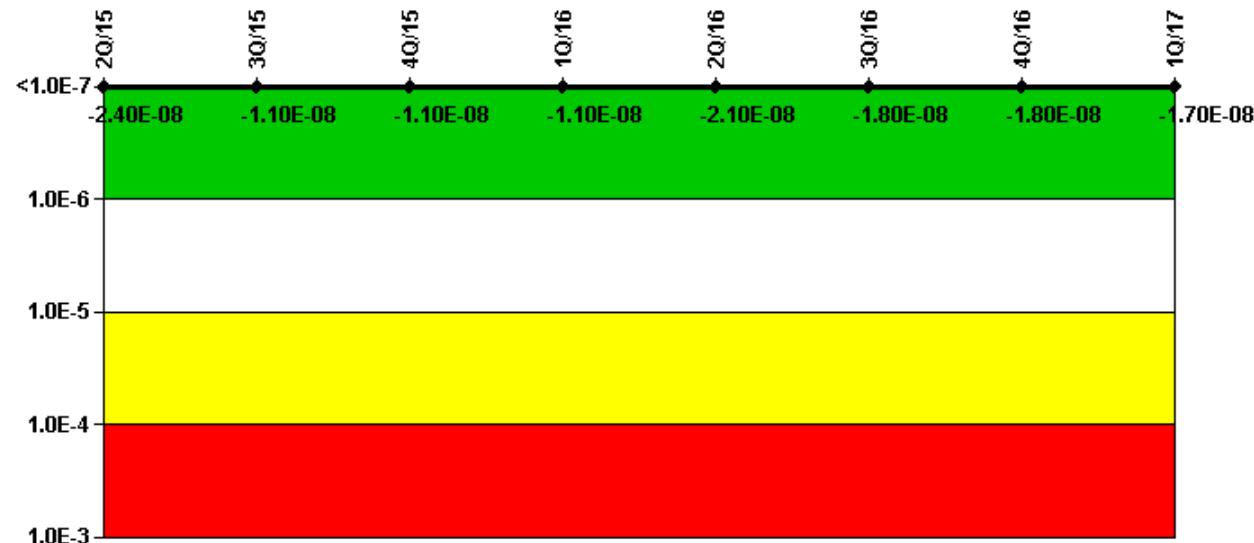
the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: Changed PRA Parameter(s). An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). Data entry errors were identified in the third quarter 2015 MSPI Parameter update for Unit 2 Emergency AC Power following submittal. As a result, the FVURC and URPC values for 2-OME-150-AB (2AB Emergency Diesel Generator) and the Failure to Run FVURC value for 2-OME-150-CD (2CD Emergency Diesel Generator) were revised for the third quarter 2015. The Unit 2 EAC MSPI color remained green following this change.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (Δ CDF)	-2.11E-11	-1.43E-09	-1.43E-09	-1.43E-09	-3.81E-09	-2.16E-09	-1.92E-09	-1.31E-09
URI (Δ CDF)	-2.39E-08	-9.11E-09	-9.11E-09	-9.11E-09	-1.68E-08	-1.61E-08	-1.61E-08	-1.61E-08
PLE	NO							

Indicator value	-2.40E-08	-1.10E-08	-1.10E-08	-1.10E-08	-2.10E-08	-1.80E-08	-1.80E-08	-1.70E-08
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Licensee Comments:

4Q/16: Changed PRA Parameter(s).

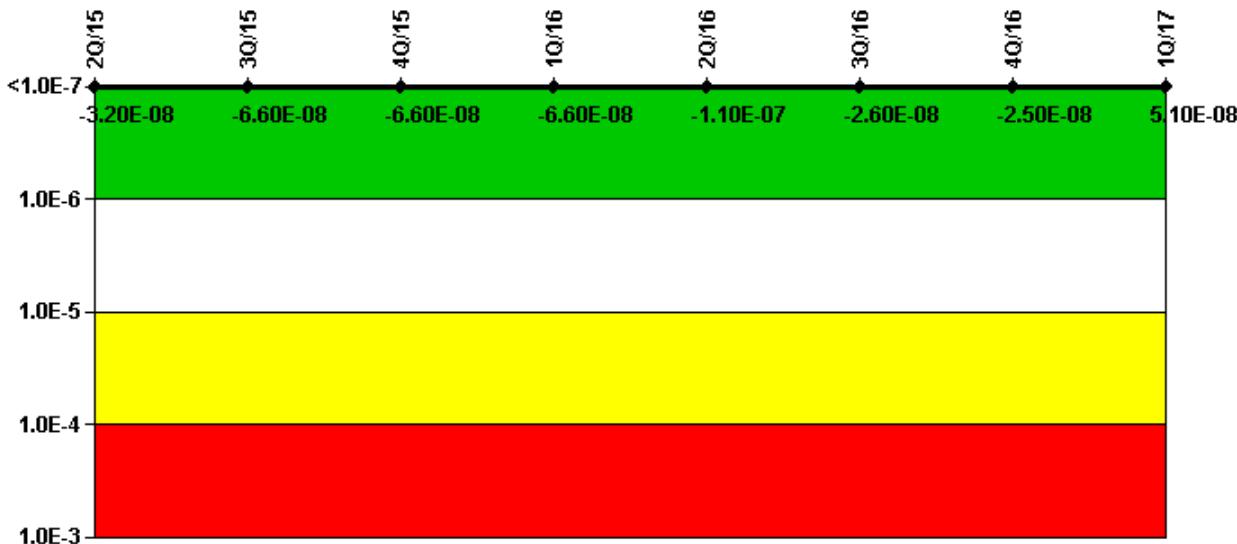
3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, Heat Removal System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (Δ CDF)	-1.34E-11	-1.45E-08	-1.45E-08	-1.45E-08	-2.77E-08	-5.60E-09	-5.42E-09	-1.94E-09
URI (Δ CDF)	-3.23E-08	-5.15E-08	-5.15E-08	-5.15E-08	-7.92E-08	-2.01E-08	-2.01E-08	5.29E-08
PLE	NO	NO						
Indicator value	-3.20E-08	-6.60E-08	-6.60E-08	-6.60E-08	-1.10E-07	-2.60E-08	-2.50E-08	5.10E-08

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Licensee Comments:

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

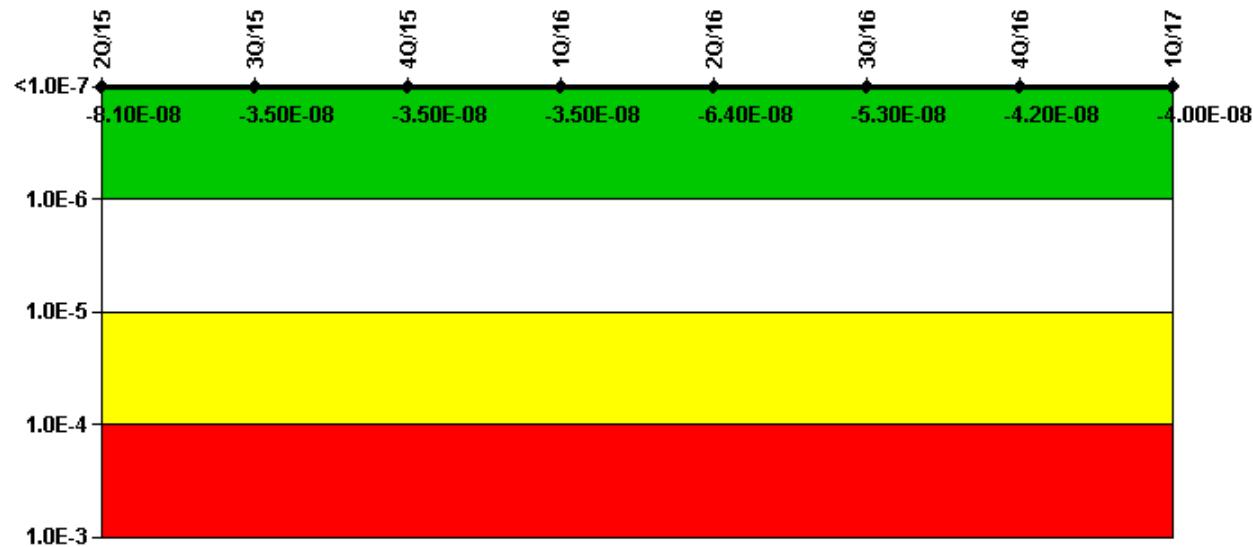
2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd

Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (Δ CDF)	4.76E-13	-2.83E-09	-2.83E-09	-2.85E-09	1.57E-08	2.70E-08	3.95E-08	4.20E-08
URI (Δ CDF)	-8.12E-08	-3.18E-08	-3.22E-08	-3.25E-08	-7.98E-08	-8.02E-08	-8.13E-08	-8.24E-08
PLE	NO							
Indicator value	-8.10E-08	-3.50E-08	-3.50E-08	-3.50E-08	-6.40E-08	-5.30E-08	-4.20E-08	-4.00E-08

TOP

Licensee Comments:

4Q/16: Changed PRA Parameter(s).

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios

that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

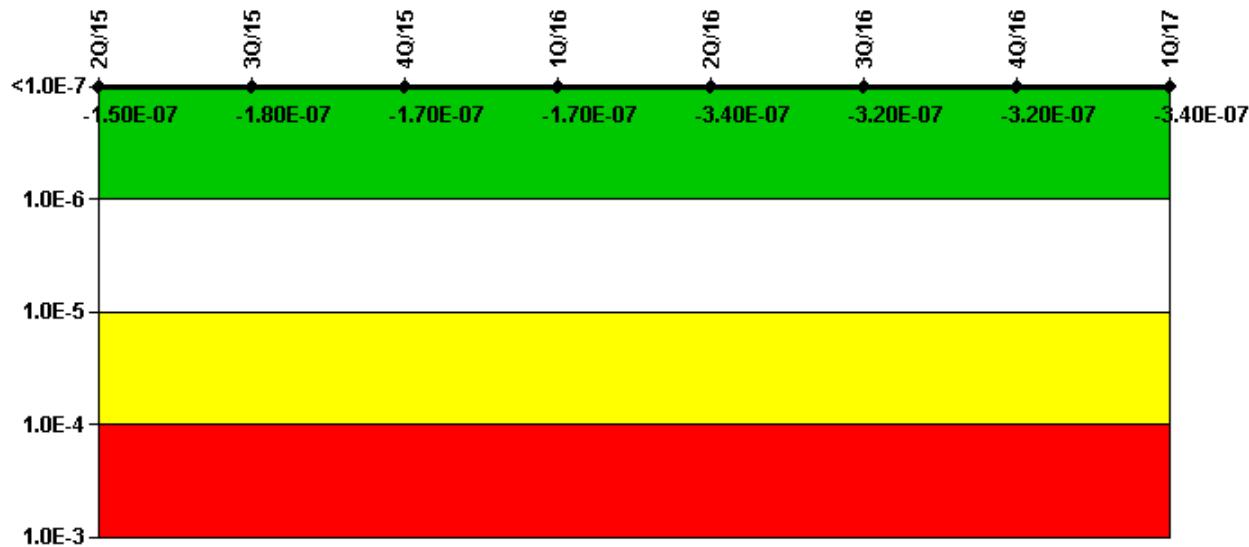
2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: Changed PRA Parameter(s). An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). Data entry errors were identified in the third quarter 2015 MSPI Parameter update for Unit 2 Residual Heat Removal following submittal. As a result, the FVURC and URPC values for 2-ICM-305 (Unit 2 Recirculation Sump to East RHR/CTS Pumps Suction Containment Isolation Valve), the FVURC and URPC values for 2-IMO-390 (Unit 2 Refueling Water Storage Tank TK-33 To Residual Heat Removal Pumps Suction Shutoff Valve), and the Common Cause Factor for 2-CMO-429 (Unit 2 West Residual Heat Removal Heat Exchanger Component Cooling Water outlet Shutoff Valve) were revised for the third quarter 2015. The Unit 2 RHR MSPI color remained green following these changes.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised. The RHR scope of monitored components was revised. 1/2-CMO-419 and 1/2-CMO-429, RHR Heat Exchanger CCW Outlet Valves, are now included in the scope of monitored components based on their Birnbaum importance. 1/2-ICM-311 and 1/2-ICM-321, RHR Pump Discharge MOVs, are removed from the scope of monitored components since they do not have an active safety function modeled in the PRA.

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (Δ CDF)	-5.34E-11	-8.51E-08	-8.01E-08	-7.27E-08	-1.57E-07	-1.47E-07	-1.45E-07	-1.71E-07
URI (Δ CDF)	-1.49E-07	-9.27E-08	-9.31E-08	-9.34E-08	-1.81E-07	-1.70E-07	-1.71E-07	-1.71E-07
PLE	NO							
Indicator value	-1.50E-07	-1.80E-07	-1.70E-07	-1.70E-07	-3.40E-07	-3.20E-07	-3.20E-07	-3.40E-07

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Licensee Comments:

4Q/16: Changed PRA Parameter(s).

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

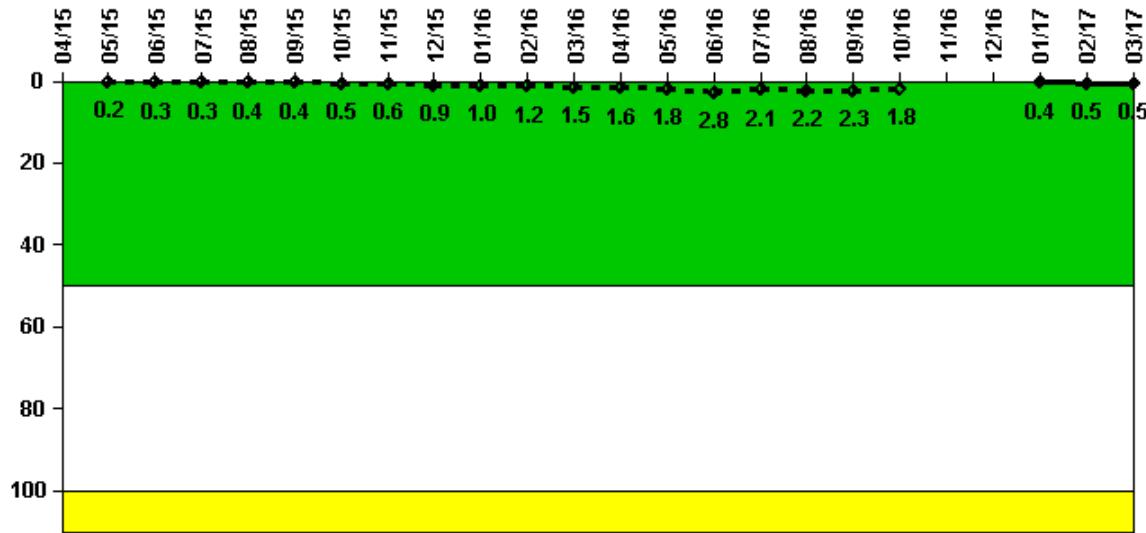
2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue

is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum activity	N/A	0.000662	0.001160	0.001090	0.001290	0.001420	0.001750	0.002240	0.003130	0.003570	0.004090	0.005100
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	N/A	0.2	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.9	1.0	1.2
Reactor Coolant System Activity	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum activity	0.005680	0.006340	0.009910	0.007240	0.007810	0.008130	0.006350	N/A	N/A	0.001320	0.001730	0.001790

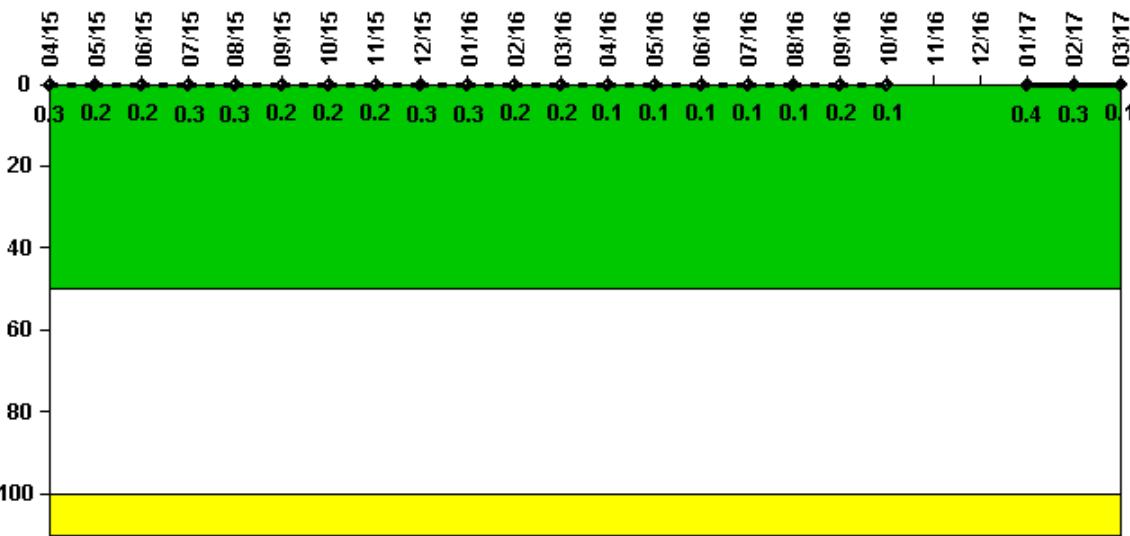
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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Indicator value	1.6	1.8	2.8	2.1	2.2	2.3	1.8	N/A	N/A	0.4	0.5	0.5
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Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum leakage	0.037	0.024	0.023	0.028	0.031	0.018	0.024	0.022	0.031	0.034	0.019	0.018
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0

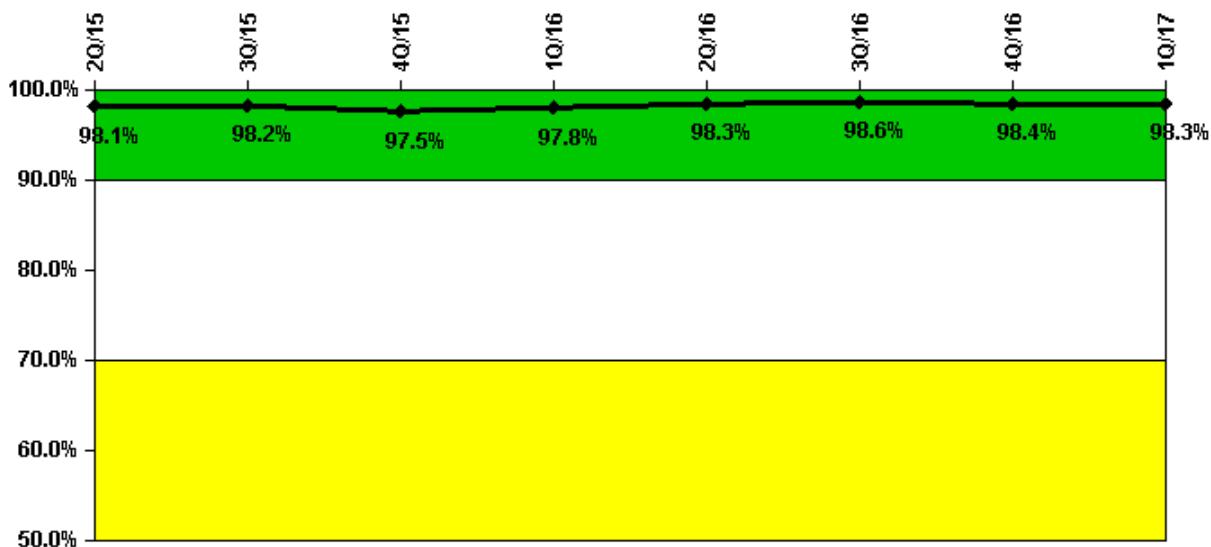
Indicator value	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.2	0.2
Reactor Coolant System Leakage	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum leakage	0.014	0.015	0.011	0.010	0.007	0.025	0.015	N/A	N/A	0.042	0.033	0.015
Technical specification limit	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0

Indicator value	0.1	0.1	0.1	0.1	0.1	0.2	0.1	N/A	N/A	0.4	0.3	0.1
------------------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------

▲ TOP

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17

Successful opportunities 12.0 62.0 56.0 62.0 34.0 81.0 1.0 48.0

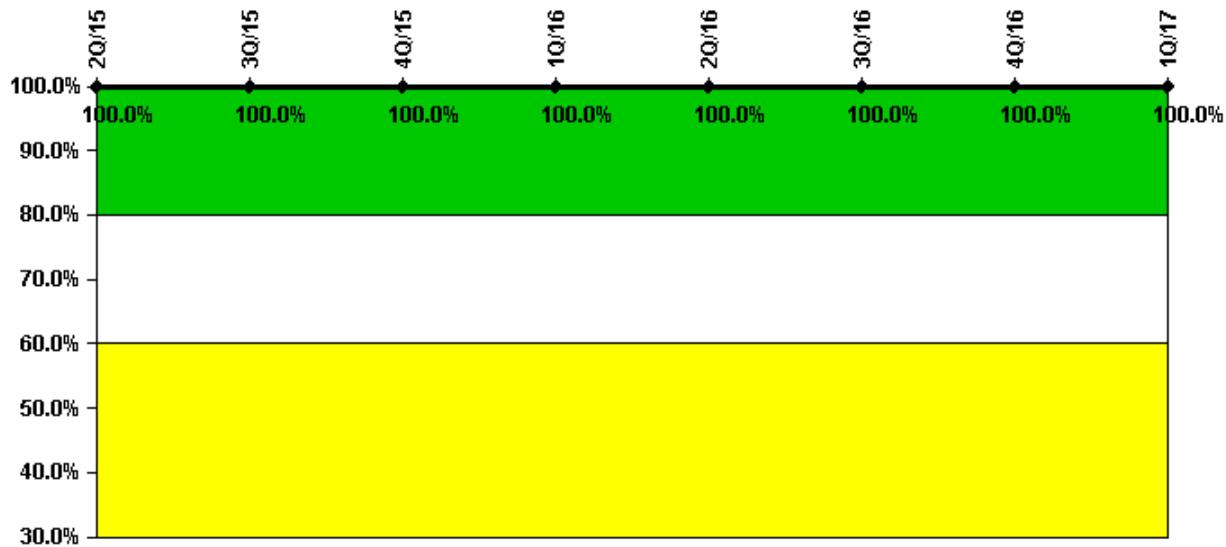
Total opportunities 12.0 62.0 60.0 62.0 34.0 82.0 1.0 49.0

Indicator value 98.1% 98.2% 97.5% 97.8% 98.3% 98.6% 98.4% 98.3%

▲ TOP

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17

Participating Key personnel 134.0 132.0 132.0 132.0 109.0 116.0 115.0 110.0

Total Key personnel 134.0 132.0 132.0 132.0 109.0 116.0 115.0 110.0

Indicator value 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%

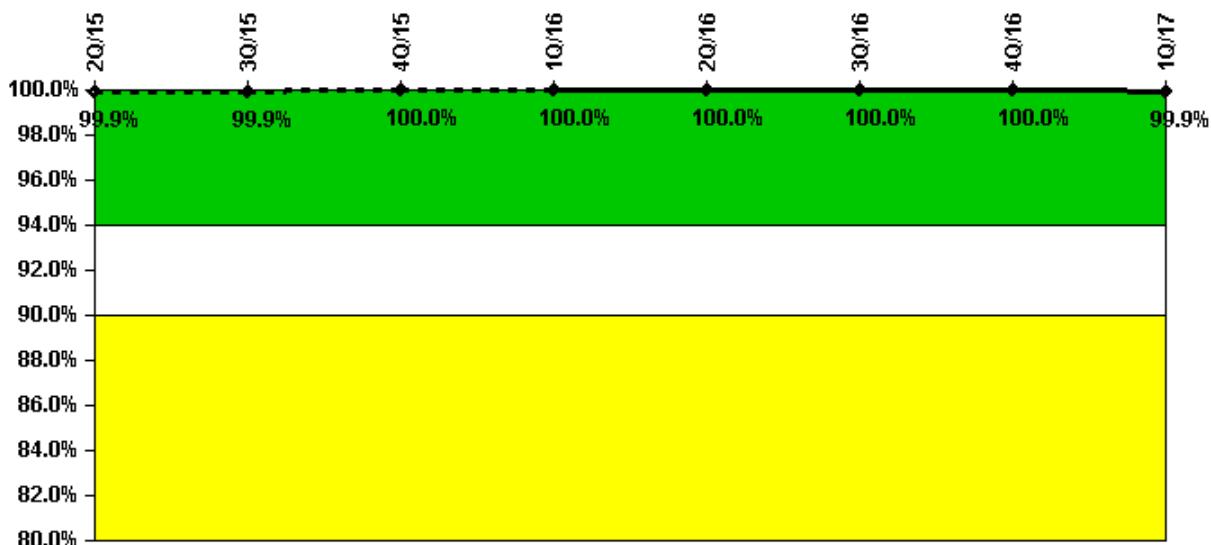
TOP

Licensee Comments:

4Q/16: Newly added drill participant was not counted. Data was corrected to reflect the change.

3Q/16: Newly added drill participant was not counted. Data was corrected to reflect the change.

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

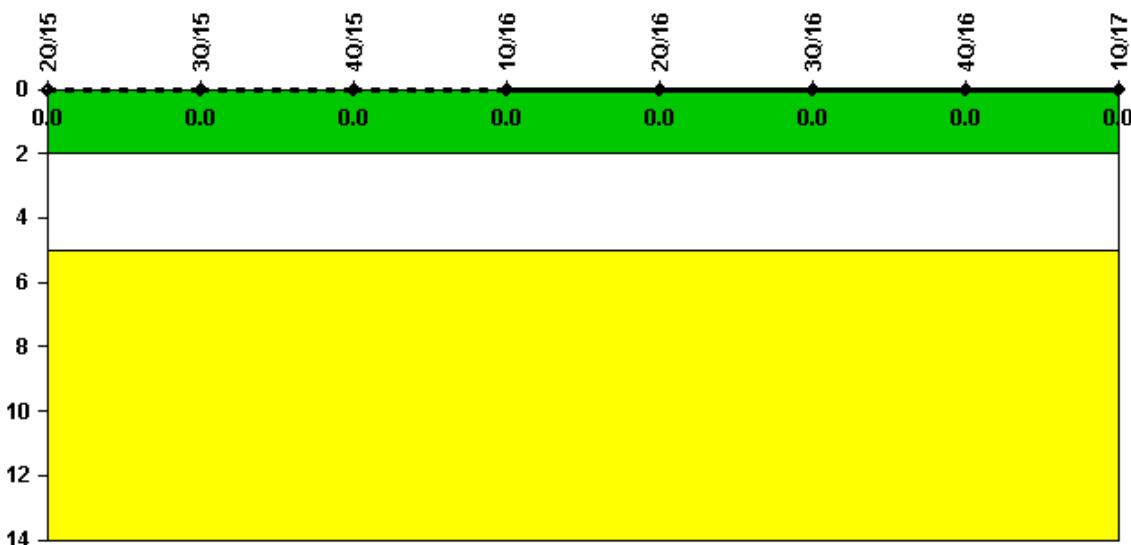
Notes

Alert & Notification System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful siren-tests	1119	1190	1120	1119	1119	1050	1120	1047
Total sirens-tests	1119	1190	1120	1120	1119	1050	1120	1050

Indicator value 99.9% 99.9% 100.0% 100.0% 100.0% 100.0% 100.0% 99.9%

TOP

Licensee Comments: none

Occupational Exposure Control Effectiveness

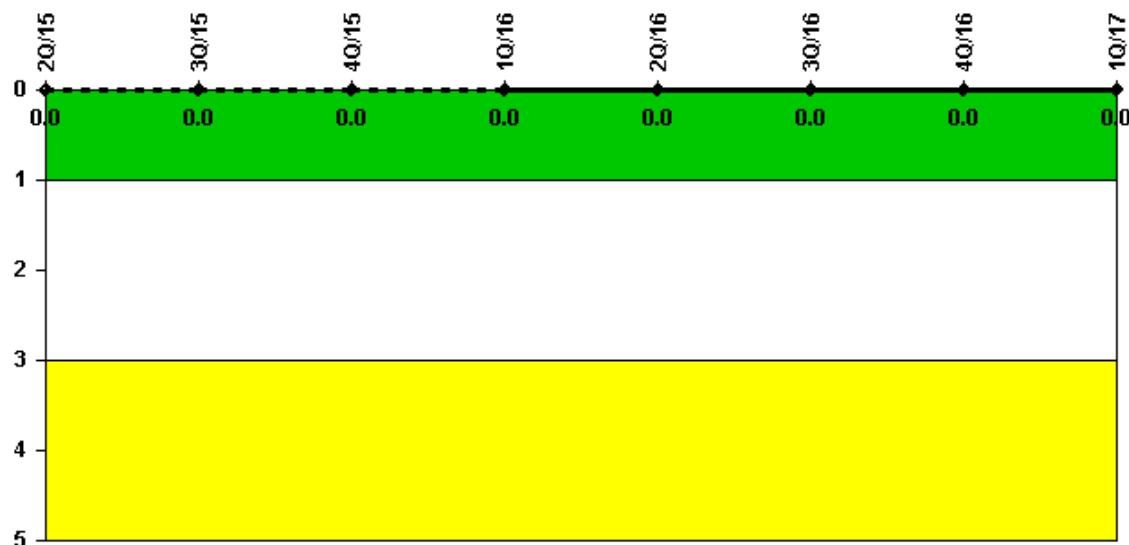
Thresholds: White > 2.0 Yellow > 5.0

Notes**Occupational Exposure Control Effectiveness** 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17

High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

▲ TOP

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17
 RETS/ODCM occurrences 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

TOP

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: May 5, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries > D.C. Cook 2 > Quarterly Performance Indicators

D.C. Cook 2 – Quarterly Performance Indicators

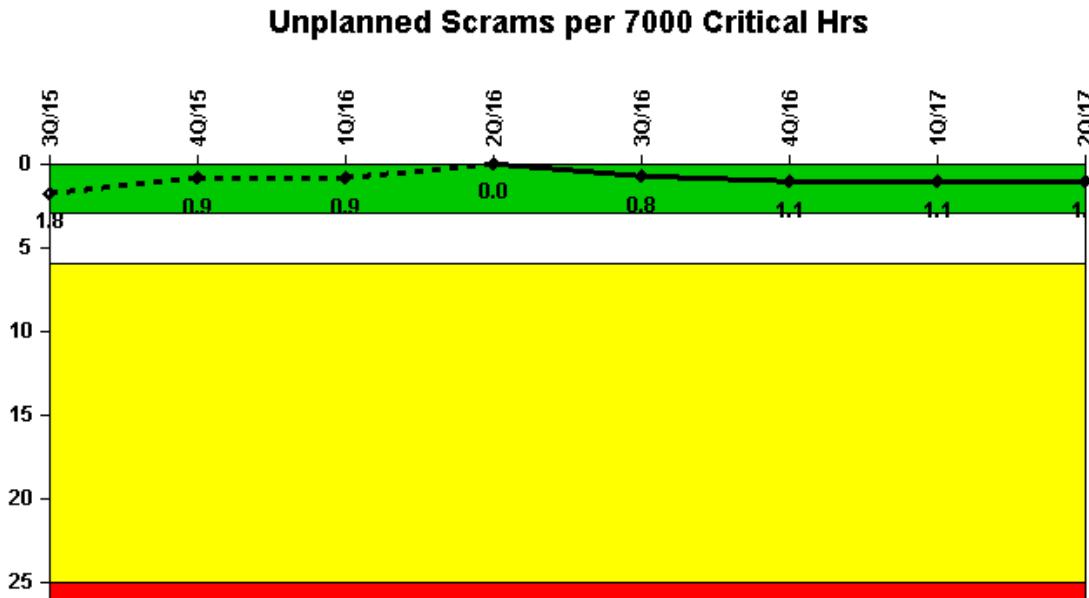
2Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

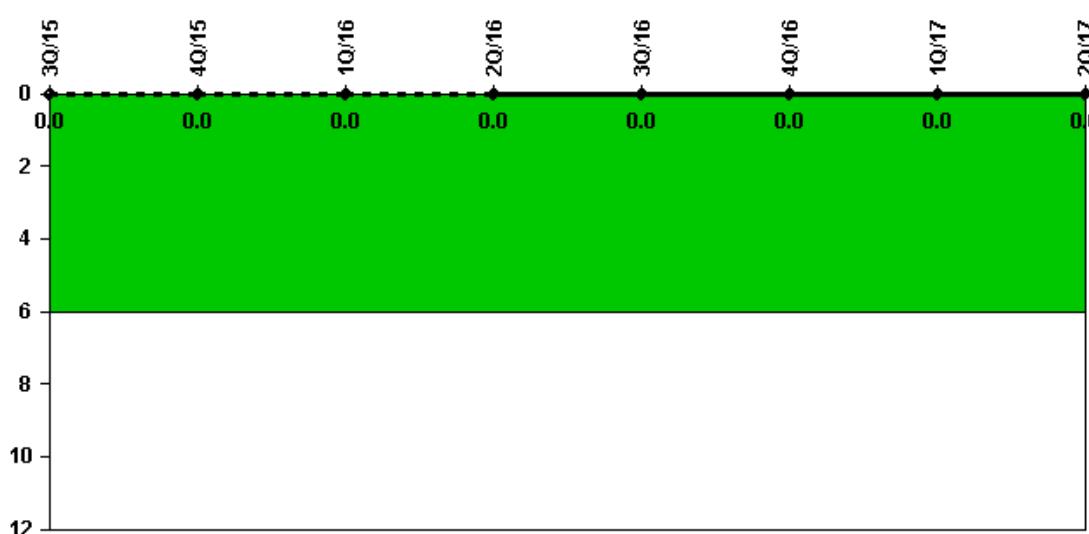
Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	2056.0	96.0	2152.9	2184.0

Indicator value



Licensee Comments: none



Thresholds: White > 6.0

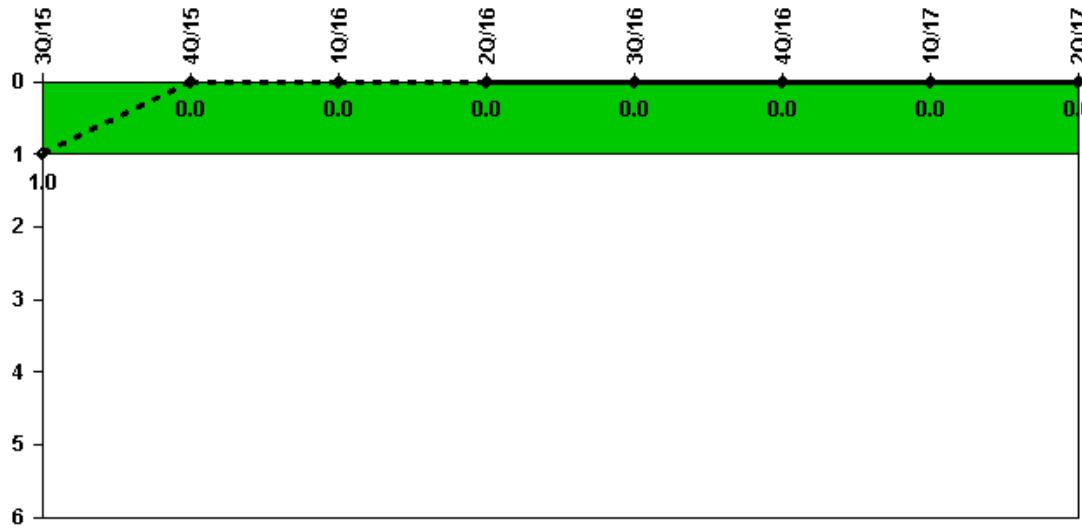
Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	2056.0	96.0	2152.9	2184.0

Indicator value **0 0 0 0 0 0 0 0**

 TOP

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

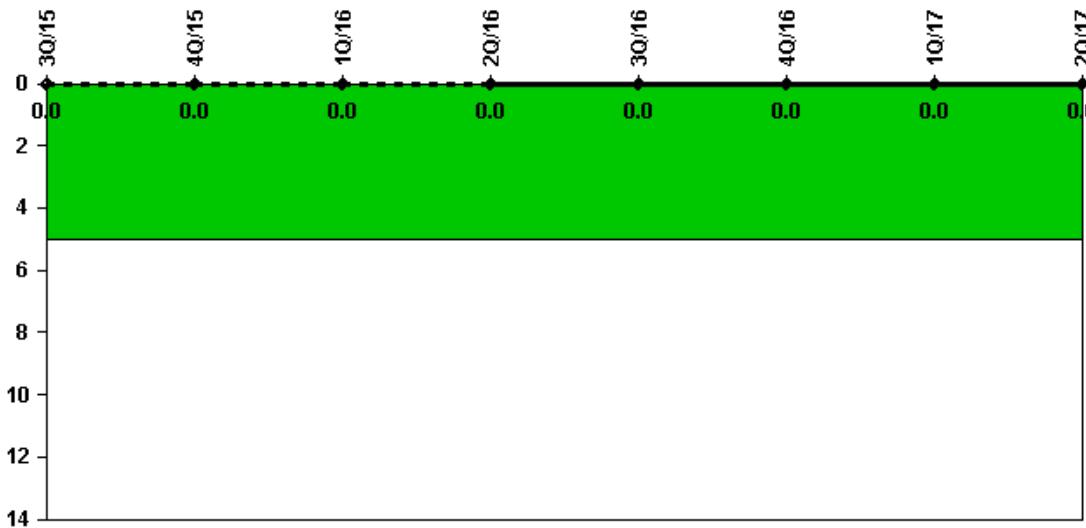
Notes

Unplanned Scrams with Complications	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Scrams with complications	0	0	0	0	0	0	0	0

Indicator value **1.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0**

 TOP

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

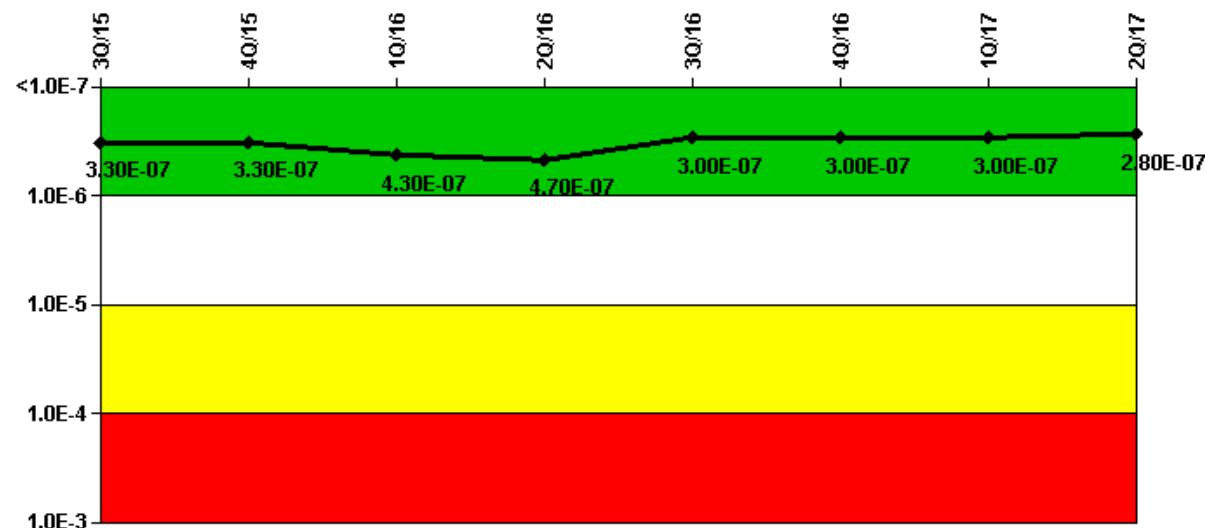
Notes

Safety System Functional Failures (PWR) 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17
Safety System Functional Failures 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

▲ TOP

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes**Mitigating Systems Performance Index, Emergency**

	AC Power System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)		-5.74E-09	-1.81E-09	2.76E-09	5.37E-09	4.26E-09	2.26E-09	2.13E-09	-1.50E-08
URI (Δ CDF)		3.36E-07	3.36E-07	4.25E-07	4.69E-07	2.98E-07	2.98E-07	2.98E-07	2.98E-07
PLE		NO	NO	NO	NO	NO	NO	NO	NO
Indicator value		3.30E-07	3.30E-07		4.30E-07	4.70E-07	3.00E-07	3.00E-07	3.00E-07

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Licensee Comments:

4Q/16: Engineering testing is being conducted on the fuel injection pump delivery valve holders to evaluate a design and manufacturing issue which will determine the impact on the run time failures being reported. Run time failures are being reported conservatively pending the results of this testing.

4Q/16: Engineering testing and analysis determined that the previously identified design and manufacturing issue with the fuel injection pump delivery valve holders did not result in a run time failure for any of the emergency diesel generators.

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

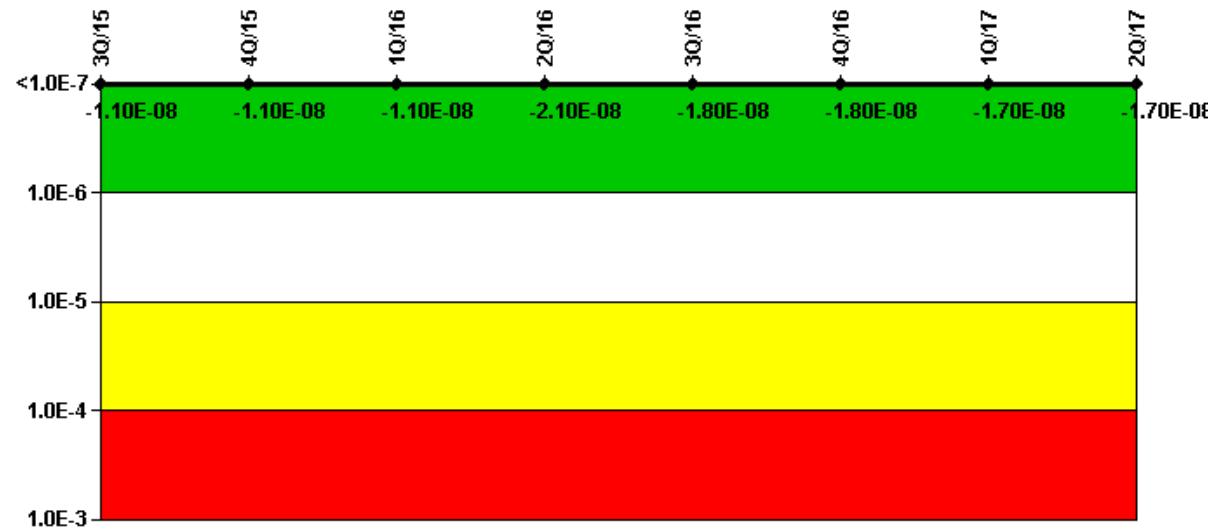
2Q/16: Risk Cap Invoked. Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: Changed PRA Parameter(s). An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). Data entry errors were identified in the third quarter 2015 MSPI Parameter update for Unit 2 Emergency AC Power following submittal. As a result, the FVURC and URPC values for 2-OME-150-AB (2AB Emergency Diesel Generator) and the Failure to Run FVURC value for 2-OME-150-CD (2CD Emergency Diesel Generator) were revised for the third quarter 2015. The Unit 2 EAC MSPI color remained green following this change.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	-1.43E-09	-1.43E-09	-1.43E-09	-3.81E-09	-2.16E-09	-1.92E-09	-1.31E-09	-1.31E-09
URI (Δ CDF)	-9.11E-09	-9.11E-09	-9.11E-09	-1.68E-08	-1.61E-08	-1.61E-08	-1.61E-08	-1.61E-08
PLE	NO							
Indicator value	-1.10E-08	-1.10E-08	-1.10E-08	-2.10E-08	-1.80E-08	-1.80E-08	-1.70E-08	-1.70E-08

TOP

Licensee Comments:

4Q/16: Changed PRA Parameter(s).

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

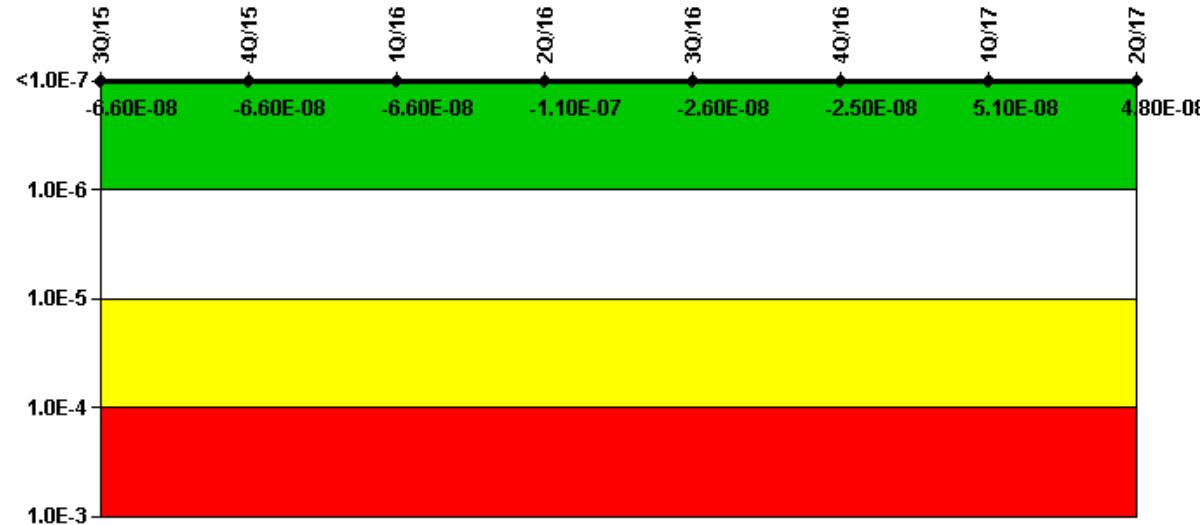
2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for

correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	-1.45E-08	-1.45E-08	-1.45E-08	-2.77E-08	-5.60E-09	-5.42E-09	-1.94E-09	-4.61E-09
URI (Δ CDF)	-5.15E-08	-5.15E-08	-5.15E-08	-7.92E-08	-2.01E-08	-2.01E-08	5.29E-08	5.29E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.60E-08	-6.60E-08	-6.60E-08	-1.10E-07	-2.60E-08	-2.50E-08	5.10E-08	4.80E-08

TOP

Licensee Comments:

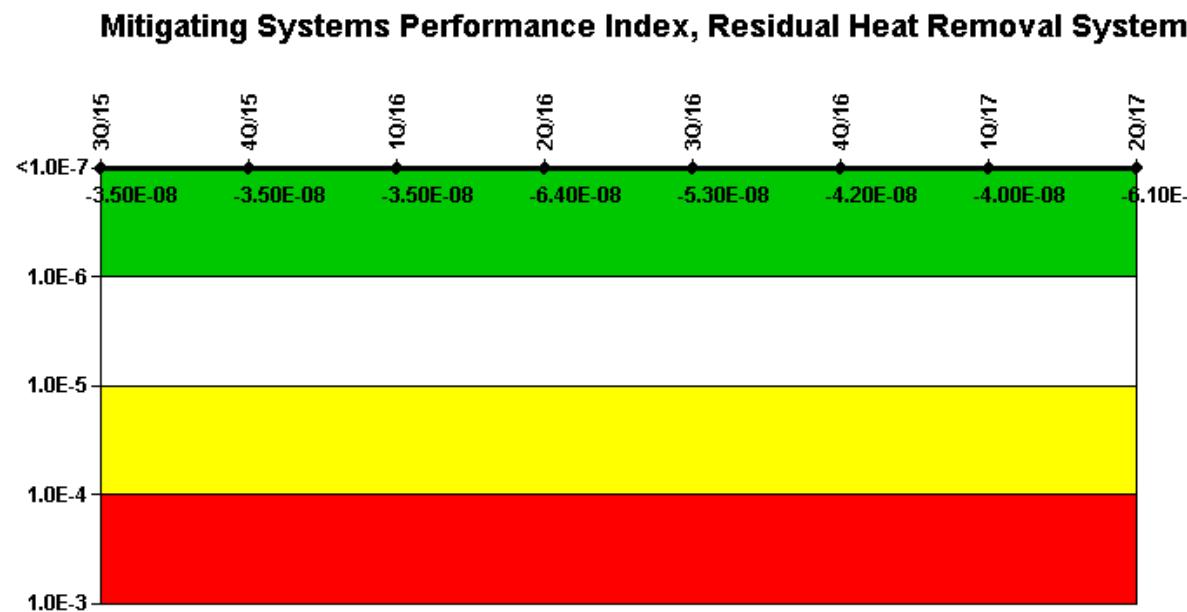
3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record

made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	-2.83E-09	-2.83E-09	-2.85E-09	1.57E-08	2.70E-08	3.95E-08	4.20E-08	2.29E-08
URI (Δ CDF)	-3.18E-08	-3.22E-08	-3.25E-08	-7.98E-08	-8.02E-08	-8.13E-08	-8.24E-08	-8.35E-08
PLE	NO							
Indicator value	-3.50E-08	-3.50E-08	-3.50E-08	-6.40E-08	-5.30E-08	-4.20E-08	-4.00E-08	-6.10E-08



Licensee Comments:

4Q/16: Changed PRA Parameter(s).

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

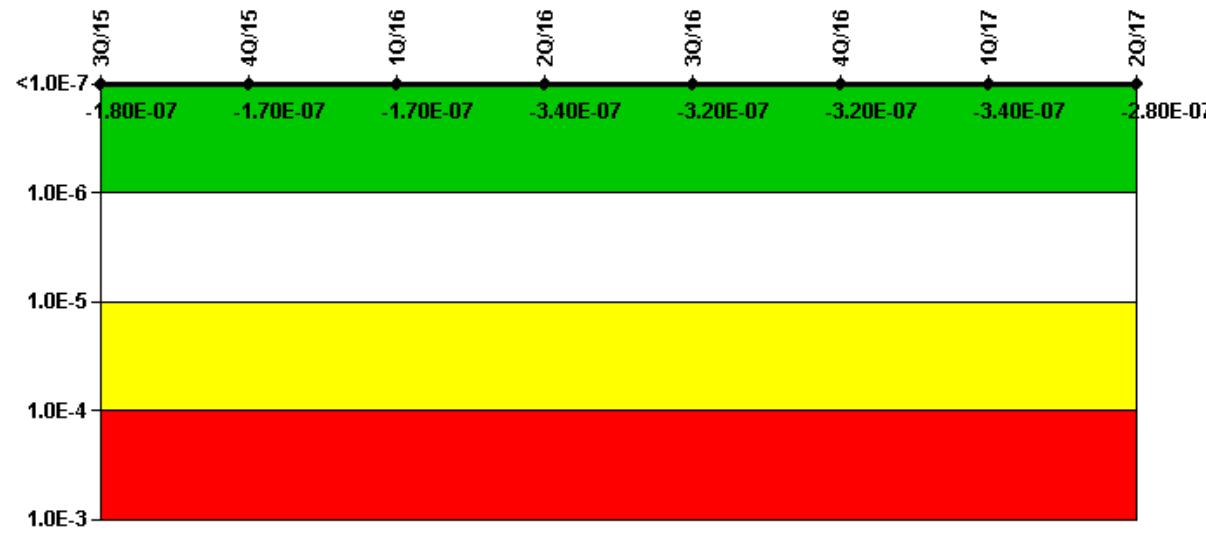
2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: Changed PRA Parameter(s). An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). Data entry errors were identified in the third quarter 2015 MSPI Parameter update for Unit 2 Residual Heat Removal following submittal. As a result, the FVURC and URPC values for 2-ICM-305 (Unit 2 Recirculation Sump to East RHR/CTS Pumps Suction Containment Isolation Valve), the FVURC and URPC values for 2-IMO-390 (Unit 2 Refueling Water Storage Tank TK-33 To Residual Heat Removal Pumps Suction Shutoff Valve), and the Common Cause Factor for 2-CMO-429 (Unit 2 West Residual Heat Removal Heat Exchanger Component Cooling Water outlet Shutoff Valve) were revised for the third quarter 2015. The Unit 2 RHR MSPI color remained green following these changes.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised. The RHR scope of monitored components was revised. 1/2-CMO-419 and 1/2-CMO-429, RHR Heat Exchanger CCW Outlet Valves, are now included in the scope of monitored components based on their Birnbaum importance. 1/2-ICM-311 and 1/2-ICM-321, RHR Pump Discharge MOVs, are removed from the scope of monitored components since they do not have an active safety function modeled in the PRA.

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	-8.51E-08	-8.01E-08	-7.27E-08	-1.57E-07	-1.47E-07	-1.45E-07	-1.71E-07	-1.06E-07
URI (Δ CDF)	-9.27E-08	-9.31E-08	-9.34E-08	-1.81E-07	-1.70E-07	-1.71E-07	-1.71E-07	-1.72E-07
PLE	NO							
Indicator value	-1.80E-07	-1.70E-07	-1.70E-07	-3.40E-07	-3.20E-07	-3.20E-07	-3.40E-07	-2.80E-07

▲ TOP

Licensee Comments:

4Q/15: Changed PRA Parameter(s).

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

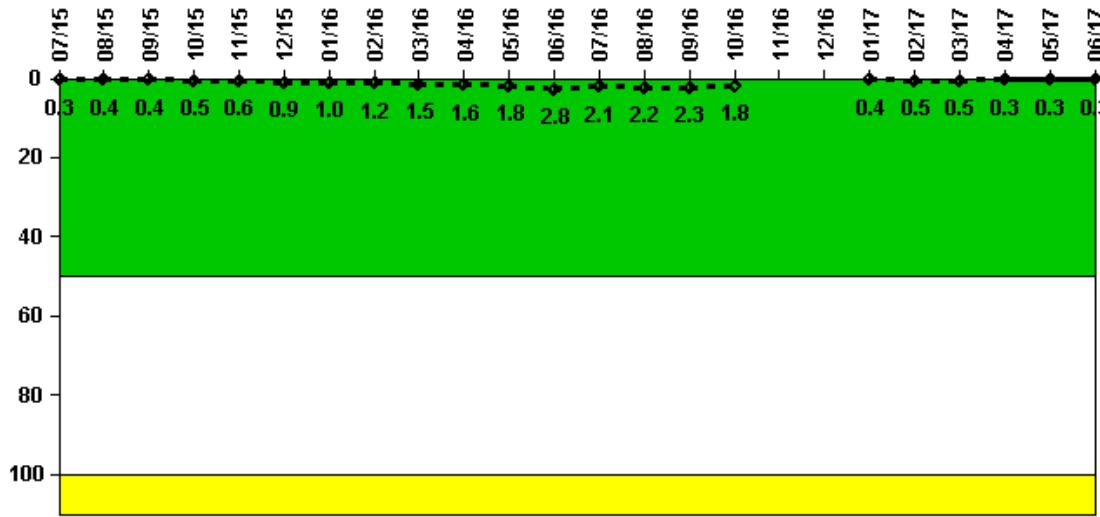
2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for

correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

3Q/15: Changed PRA Parameter(s). The 2015 DC Cook Internal Events PRA Model of Record was approved on 6/30/15 with a corresponding MSPI Basis Document Revision 9 approved on 10/01/15. The PRA model revision was a full-scope periodic update to the model which included a data update and correction of modeling issues identified in the 2009 model. As a result of the PRA model change, the CDF, Fussel-Vesely, and Basic Event Probabilities for all monitored trains and components were revised.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

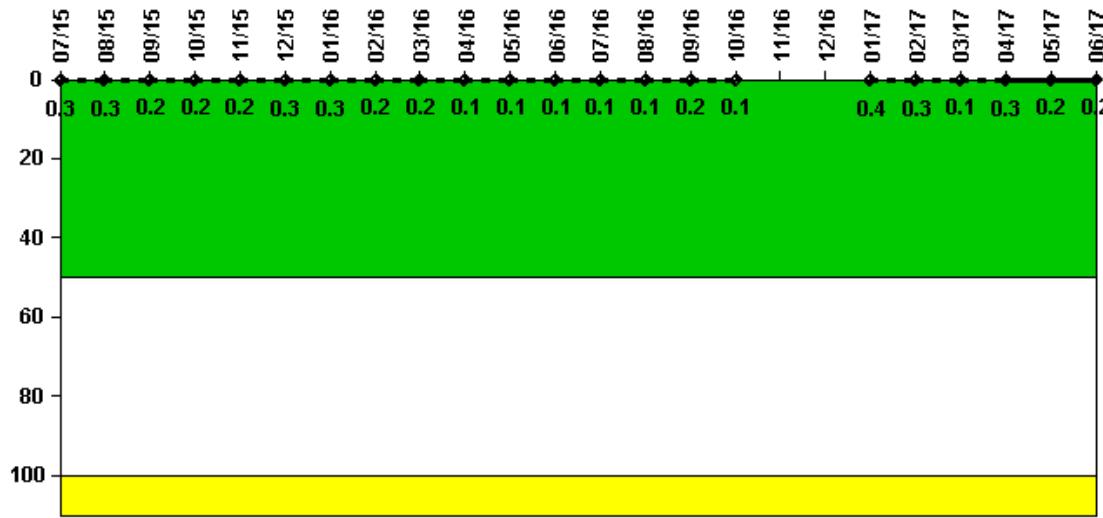
Notes

Reactor Coolant System Activity	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum activity	0.001090	0.001290	0.001420	0.001750	0.002240	0.003130	0.003570	0.004090	0.005100	0.005680	0.006340	0.009910
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0.3	0.4	0.4	0.5	0.6	0.9	1.0	1.2	1.5	1.6	1.8	2.8
Reactor Coolant System Activity	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17
Maximum activity	0.007240	0.007810	0.008130	0.006350	N/A	N/A	0.001320	0.001730	0.001790	0.000928	0.000981	0.001030
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	2.1	2.2	2.3	1.8	N/A	N/A	0.4	0.5	0.5	0.3	0.3	0.3

TOP

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

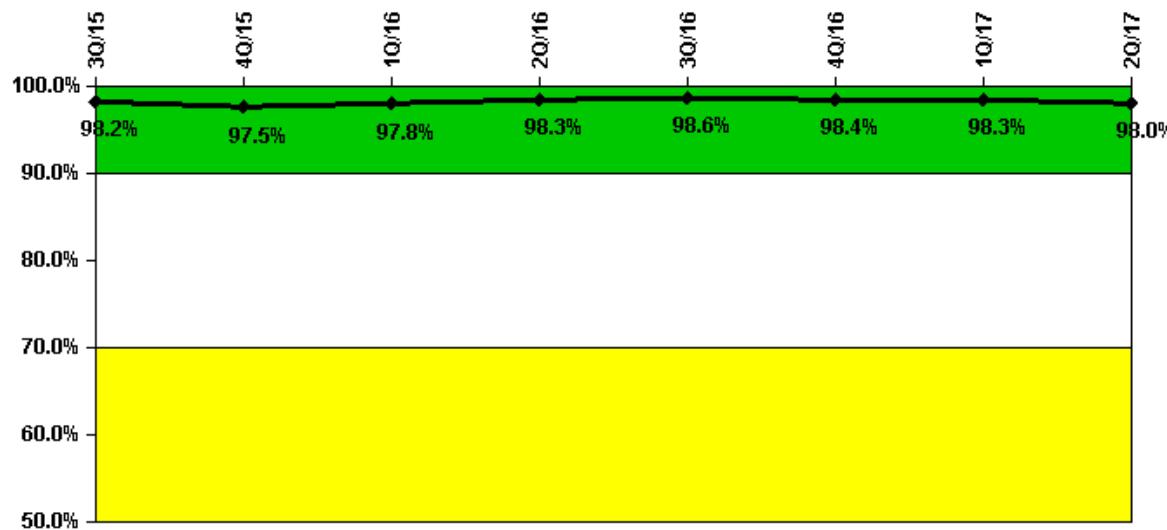
Reactor Coolant System Leakage 7/15 8/15 9/15 10/15 11/15 12/15 1/16 2/16 3/16 4/16 5/16 6/16
Maximum leakage 0.028 0.031 0.018 0.024 0.022 0.022 0.031 0.034 0.019 0.018 0.014 0.015 0.011
Technical specification limit 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0

Indicator value 0.3 0.3 0.2 0.2 0.2 0.3 0.3 0.3 0.2 0.2 0.1 0.1 0.1
Reactor Coolant System Leakage 7/16 8/16 9/16 10/16 11/16 12/16 1/17 2/17 3/17 4/17 5/17 6/17
Maximum leakage 0.010 0.007 0.025 0.015 N/A N/A 0.042 0.033 0.015 0.030 0.019 0.019
Technical specification limit 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0

Indicator value 0.1 0.1 0.2 0.1 N/A N/A 0.4 0.3 0.1 0.3 0.2 0.2

TOP

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

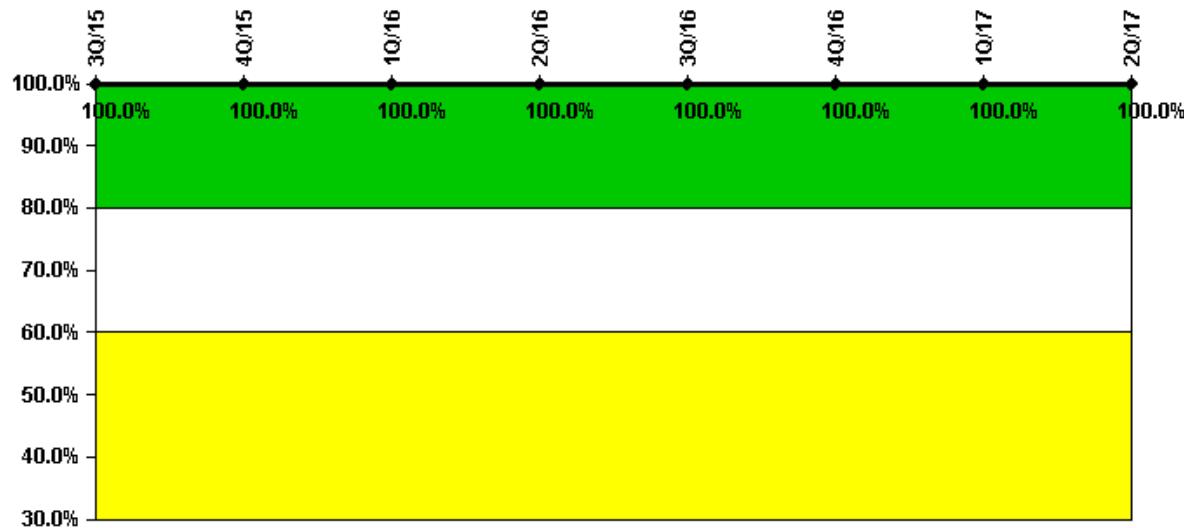
Notes

Drill/Exercise Performance	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful opportunities	62.0	56.0	62.0	34.0	81.0	1.0	48.0	58.0
Total opportunities	62.0	60.0	62.0	34.0	82.0	1.0	49.0	60.0

Indicator value **98.2% 97.5% 97.8% 98.3% 98.6% 98.4% 98.3% 98.0%**

TOP

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Participating Key personnel	132.0	132.0	132.0	109.0	116.0	115.0	110.0	110.0
Total Key personnel	132.0	132.0	132.0	109.0	116.0	115.0	110.0	110.0

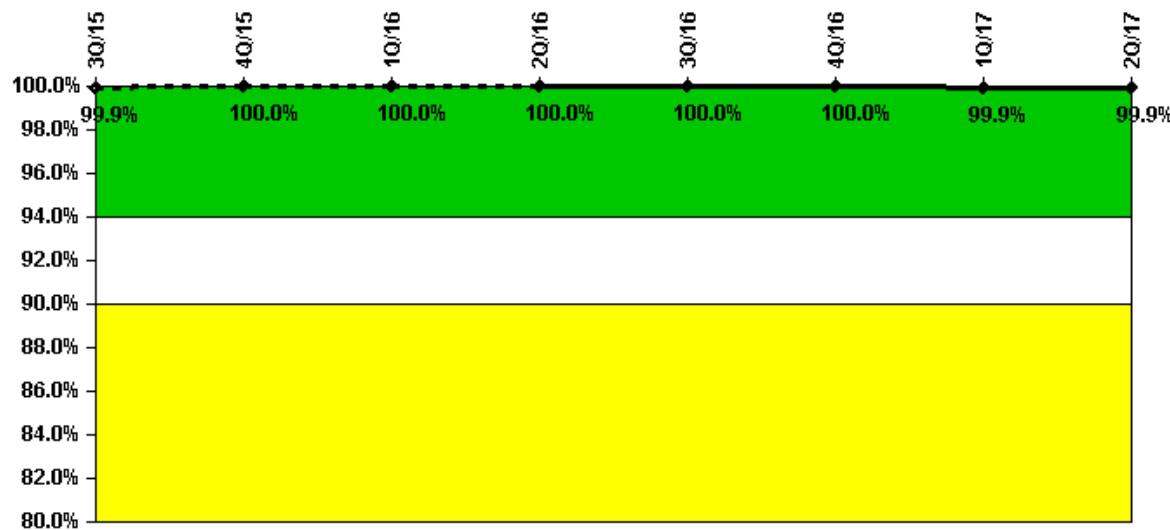
Indicator value 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%

TOP

Licensee Comments:

4Q/16: Newly added drill participant was not counted. Data was corrected to reflect the change.

3Q/16: Newly added drill participant was not counted. Data was corrected to reflect the change.

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

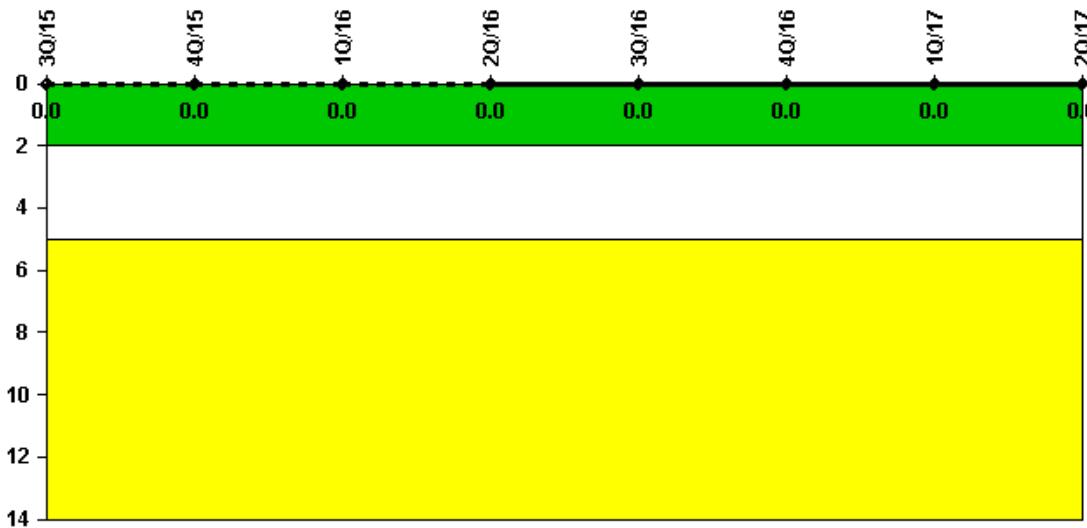
Notes

Alert & Notification System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful siren-tests	1190	1120	1119	1119	1050	1120	1047	1119
Total sirens-tests	1190	1120	1120	1119	1050	1120	1050	1119

Indicator value 99.9% 100.0% 100.0% 100.0% 100.0% 100.0% 99.9% 99.9%

TOP

Licensee Comments: none

Occupational Exposure Control Effectiveness

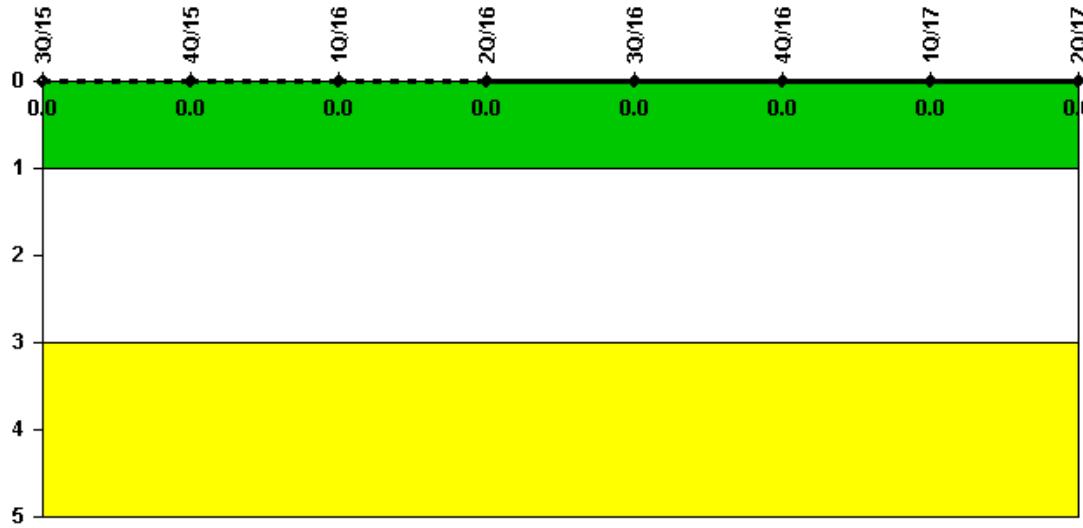
Thresholds: White > 2.0 Yellow > 5.0

Notes**Occupational Exposure Control Effectiveness**

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

▲ TOP

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17
RETS/ODCM occurrences 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

▲ TOP

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: July 26, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries > D.C. Cook 2 > Quarterly Performance Indicators

D.C. Cook 2 – Quarterly Performance Indicators

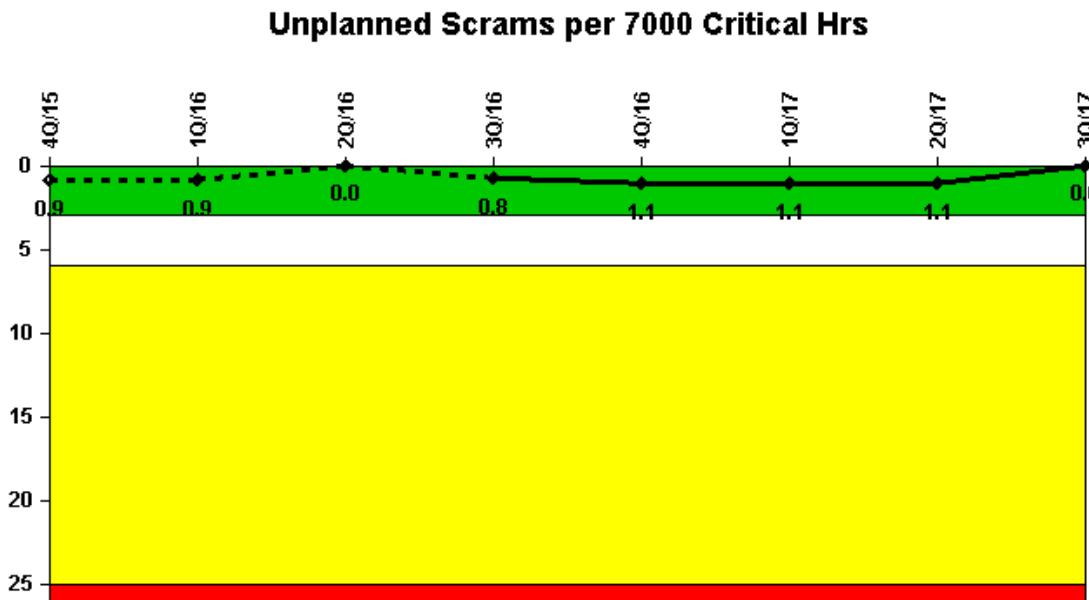
3Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

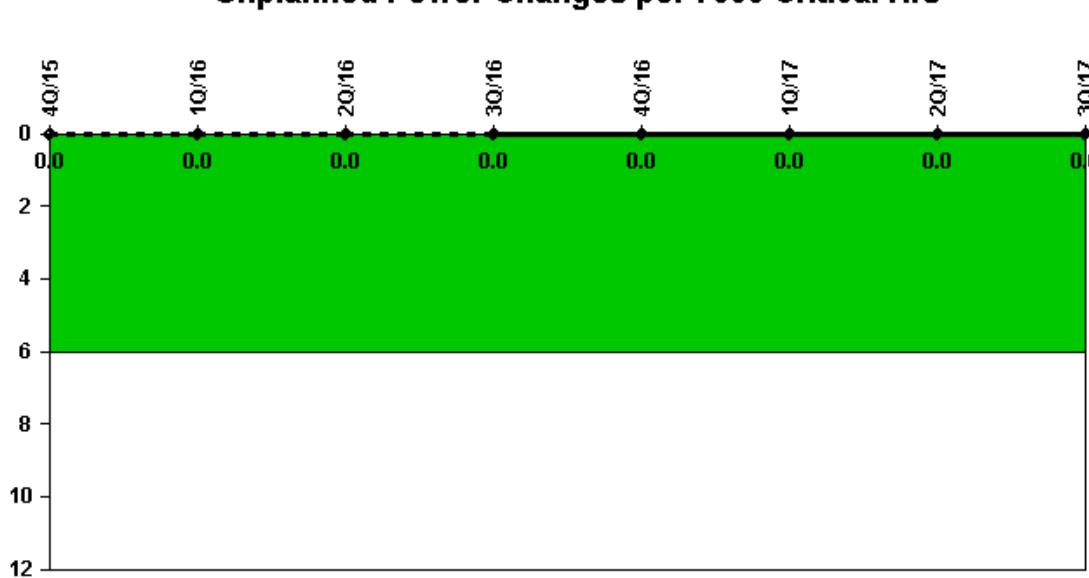
Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2209.0	2183.0	2184.0	2056.0	96.0	2152.9	2184.0	2208.0

Indicator value



Licensee Comments: none



Thresholds: White > 6.0

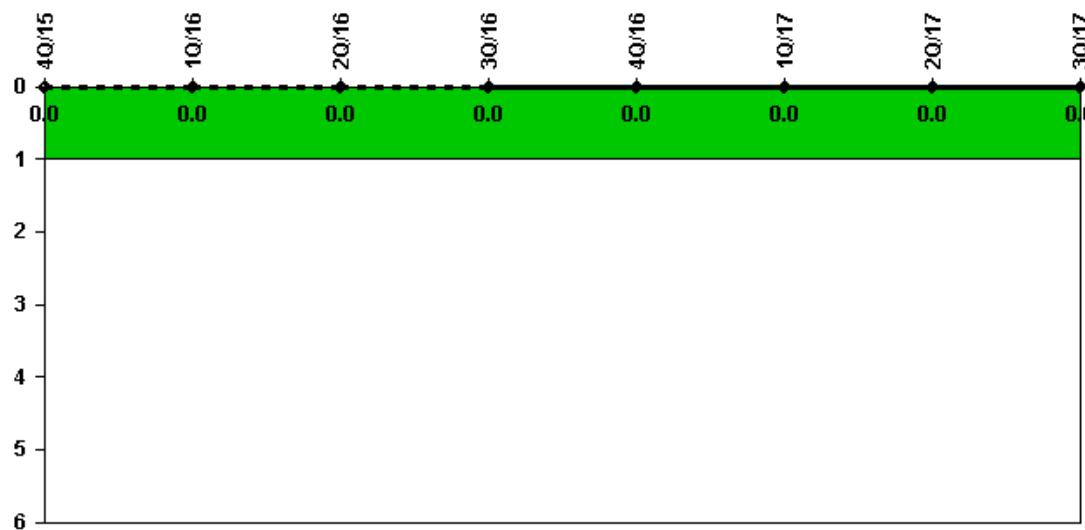
Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	2183.0	2184.0	2056.0	96.0	2152.9	2184.0	2208.0

Indicator value 0 0 0 0 0 0 0 0



Licensee Comments: none



Thresholds: White > 1.0

Notes

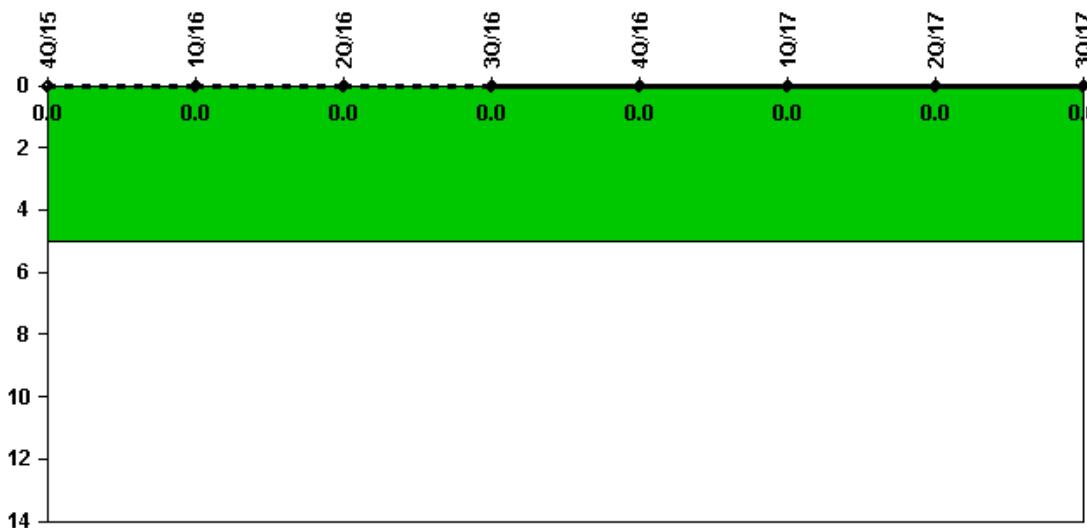
Unplanned Scrums with Complications 4Q/151Q/162Q/163Q/164Q/161Q/172Q/173Q/17
Scrums with complications 0 0 0 0 0 0 0 0 0

Indicator value 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0



Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

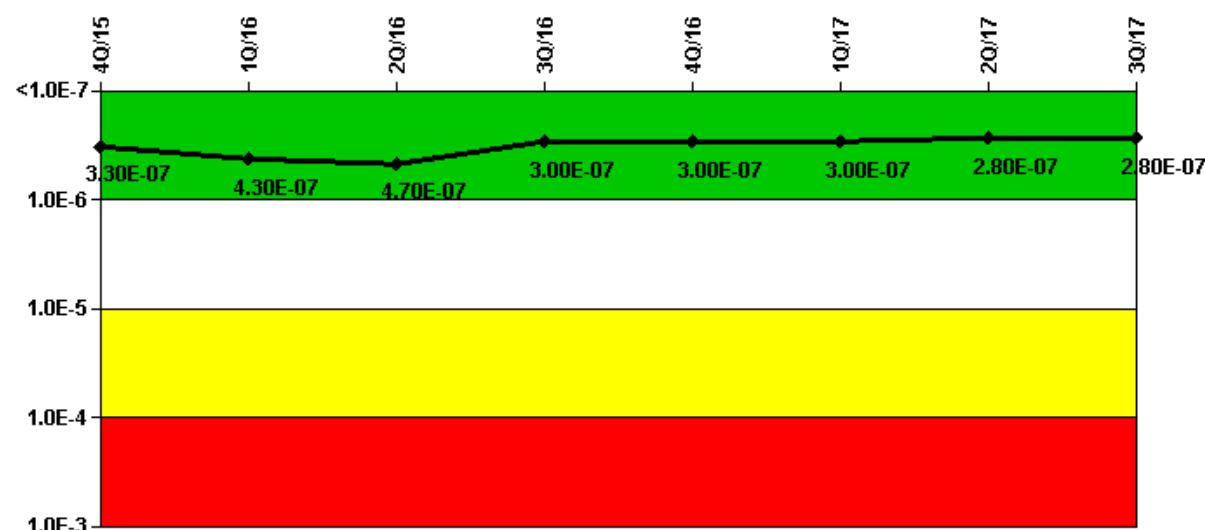
Safety System Functional Failures (PWR) 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17
Safety System Functional Failures 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

▲ TOP

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes**Mitigating Systems Performance Index, Emergency**

	AC Power System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)		-1.81E-09	2.76E-09	5.37E-09	4.26E-09	2.26E-09	2.13E-09	-1.50E-08	-1.49E-08
URI (Δ CDF)		3.36E-07	4.25E-07	4.69E-07	2.98E-07	2.98E-07	2.98E-07	2.98E-07	2.96E-07
PLE		NO							
Indicator value		3.30E-07	4.30E-07	4.70E-07	3.00E-07	3.00E-07	3.00E-07	2.80E-07	2.80E-07

 TOP

Licensee Comments:

3Q/17: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/17 with a corresponding MSPI Basis Document revision approved on 08/31/17. Revision 13 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which added flooding events that were initially screened out of the PRA. Because MSPI expressly excludes flooding from the analysis, these changes had no impact on PRA MSPI data. In addition to the flooding changes, this model of record incorporates the addition of failure modes to interfacing systems LOCA modeling in order to resolve F&Os from the 2015 peer review. Containment event trees for AFW were also modified in order to increase quantification efficiency.

4Q/16: Engineering testing is being conducted on the fuel injection pump delivery valve holders to evaluate a design and manufacturing issue which will determine the impact on the run time failures being reported. Run time failures are being reported conservatively pending the results of this testing.

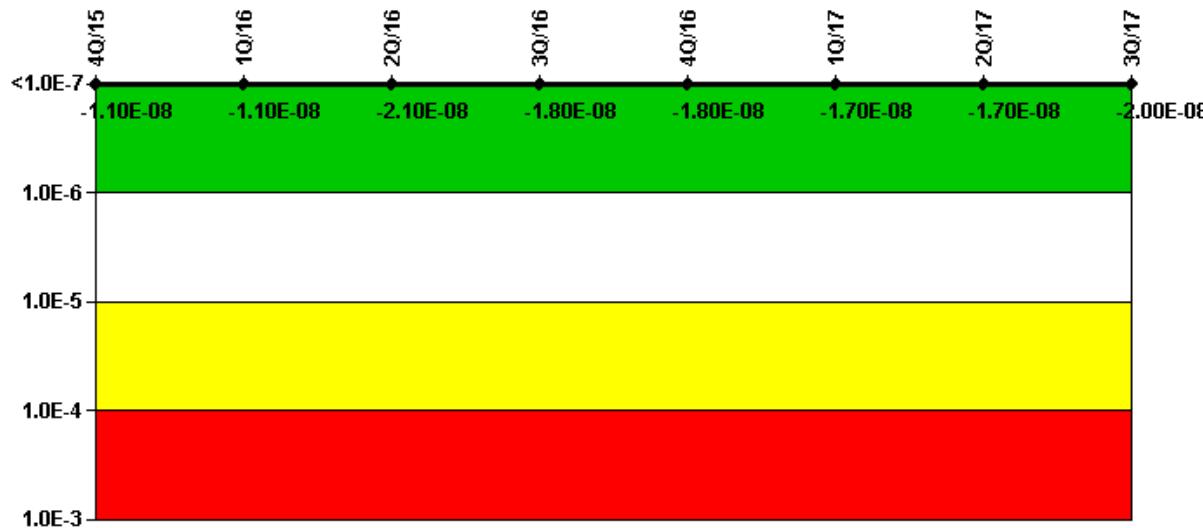
4Q/16: Engineering testing and analysis determined that the previously identified design and manufacturing issue with the fuel injection pump delivery valve holders did not result in a run time failure for any of the emergency diesel generators.

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

2Q/16: Risk Cap Invoked. Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

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Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-1.43E-09	-1.43E-09	-3.81E-09	-2.16E-09	-1.92E-09	-1.31E-09	-1.31E-09	-3.65E-09
URI (Δ CDF)	-9.11E-09	-9.11E-09	-1.68E-08	-1.61E-08	-1.61E-08	-1.61E-08	-1.61E-08	-1.60E-08
PLE	NO							
Indicator value	-1.10E-08	-1.10E-08	-2.10E-08	-1.80E-08	-1.80E-08	-1.70E-08	-1.70E-08	-2.00E-08

TOP

Licensee Comments:

3Q/17: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/17 with a corresponding MSPI Basis Document revision approved on 08/31/17. Revision 13 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which added flooding events that were initially screened out of the PRA. Because MSPI expressly excludes flooding from the analysis, these changes had no impact on PRA MSPI data. In addition to the flooding changes, this model of record incorporates the addition of failure modes to interfacing systems LOCA modeling in order to resolve F&Os from the 2015 peer review. Containment event trees for AFW were also modified in order to increase quantification efficiency.

4Q/16: Changed PRA Parameter(s).

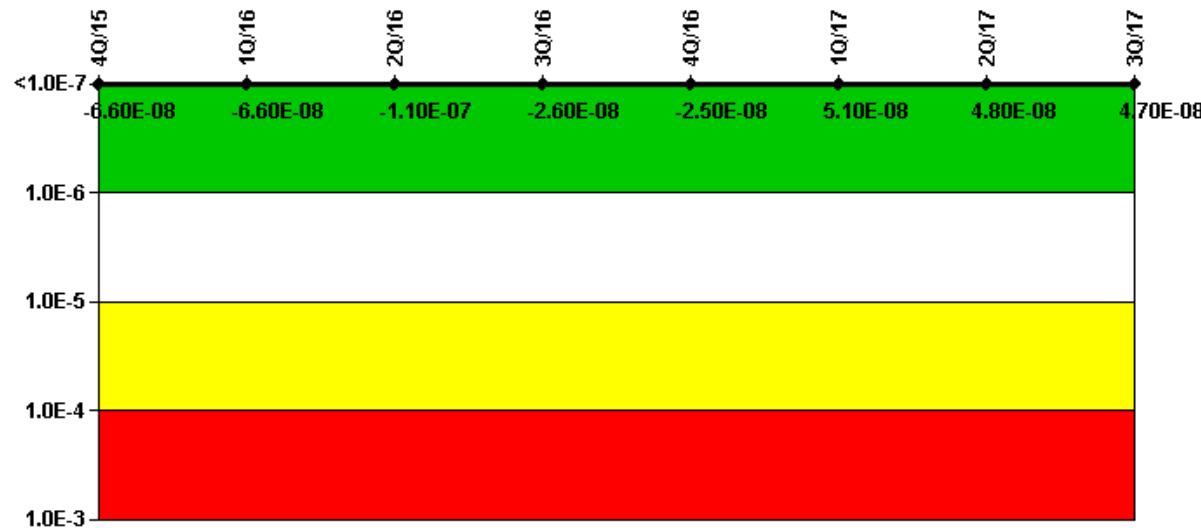
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Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-1.45E-08	-1.45E-08	-2.77E-08	-5.60E-09	-5.42E-09	-1.94E-09	-4.61E-09	-5.52E-09
URI (Δ CDF)	-5.15E-08	-5.15E-08	-7.92E-08	-2.01E-08	-2.01E-08	5.29E-08	5.29E-08	5.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.60E-08	-6.60E-08	-1.10E-07	-2.60E-08	-2.50E-08	5.10E-08	4.80E-08	4.70E-08

TOP

Licensee Comments:

3Q/17: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/17 with a corresponding MSPI Basis Document revision approved on 08/31/17. Revision 13 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which added flooding events that were initially screened out of the PRA. Because MSPI expressly excludes flooding from the analysis, these changes had no impact on PRA MSPI data. In addition to the flooding changes, this model of record incorporates the addition of failure modes to interfacing systems LOCA modeling in order to resolve F&Os from the 2015 peer review. Containment event trees for AFW were also modified in order to increase quantification efficiency.

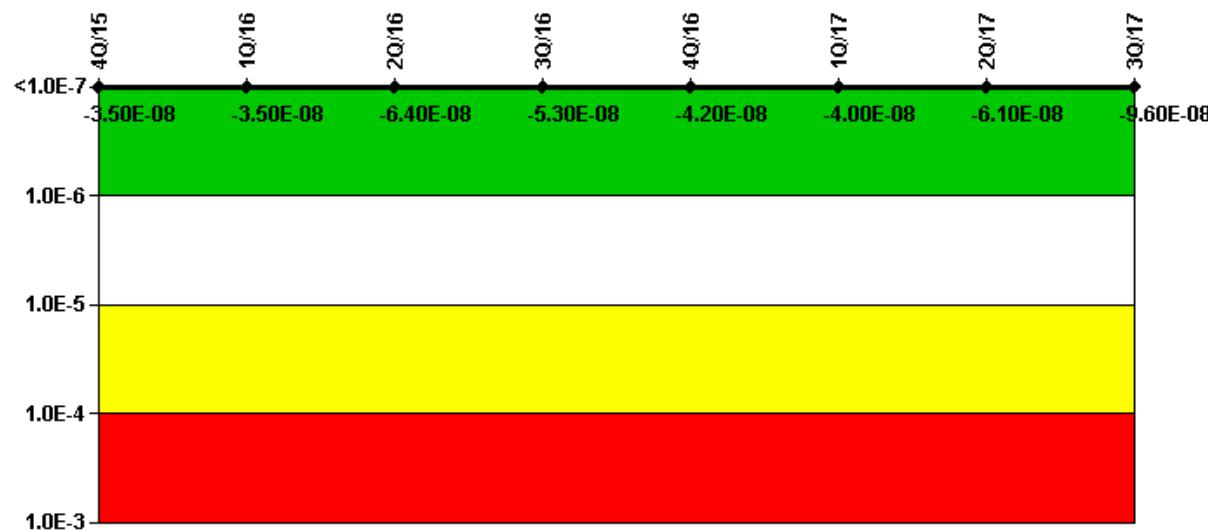
3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis

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Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-2.83E-09	-2.85E-09	1.57E-08	2.70E-08	3.95E-08	4.20E-08	2.29E-08	-1.21E-08
URI (Δ CDF)	-3.22E-08	-3.25E-08	-7.98E-08	-8.02E-08	-8.13E-08	-8.24E-08	-8.35E-08	-8.42E-08
PLE	NO							
Indicator value	-3.50E-08	-3.50E-08	-6.40E-08	-5.30E-08	-4.20E-08	-4.00E-08	-6.10E-08	-9.60E-08

 TOP

Licensee Comments:

3Q/17: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/17 with a corresponding MSPI Basis Document revision approved on 08/31/17. Revision 13 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which added flooding events that were initially screened out of the PRA. Because MSPI expressly excludes flooding from the analysis, these changes had no impact on PRA MSPI data. In addition to the flooding changes, this model of record incorporates the addition of failure modes to interfacing systems LOCA modeling in order to resolve F&Os from the 2015 peer review. Containment event trees for AFW were also modified in order to increase quantification efficiency.

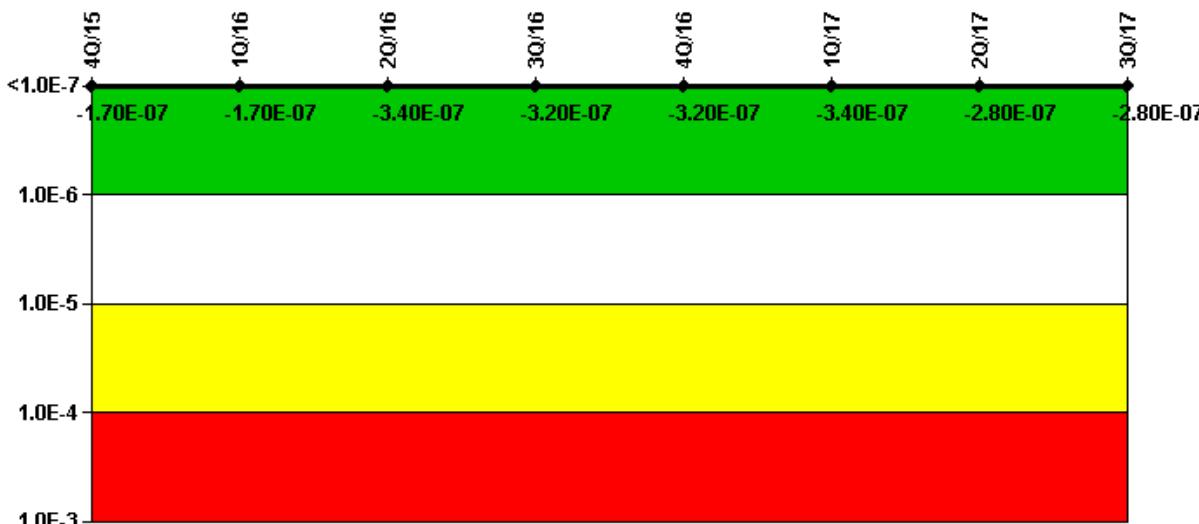
4Q/16: Changed PRA Parameter(s).

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

4Q/15: Changed PRA Parameter(s). An FAQ has been submitted due to an unresolved issue from the NRC 3rd Quarter Baseline Inspection. The unresolved issue is related to a PRA Modeling error discovered and entered into the Station Corrective Action Program and corrected in the 3rd Quarter 2015 submittal following approval of the PRA Model revision in the 2nd Quarter 2015. The NRC Resident Inspectors questioned why previously submitted MSPI data was not corrected when the error was discovered. The Station's understanding of NEI 99-02 guidance for correcting previously submitted data is that changes based on PRA Model revisions, including error correction, are implemented in the quarter following approval of the revised PRA Model and previously submitted data is not updated.

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-8.01E-08	-7.27E-08	-1.57E-07	-1.47E-07	-1.45E-07	-1.71E-07	-1.06E-07	-1.05E-07
URI (Δ CDF)	-9.31E-08	-9.34E-08	-1.81E-07	-1.70E-07	-1.71E-07	-1.71E-07	-1.72E-07	-1.72E-07
PLE	NO							
Indicator value	-1.70E-07	-1.70E-07	-3.40E-07	-3.20E-07	-3.20E-07	-3.40E-07	-2.80E-07	-2.80E-07

 TOP

Licensee Comments:

3Q/17: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/17 with a corresponding MSPI Basis Document revision approved on 08/31/17. Revision 13 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which added flooding events that were initially screened out of the PRA. Because MSPI expressly excludes flooding from the analysis, these changes had no impact on PRA MSPI data. In addition to the flooding changes, this model of record incorporates the addition of failure modes to interfacing systems LOCA modeling in order to resolve F&Os from the 2015 peer review. Containment event trees for AFW were also modified in order to increase quantification efficiency.

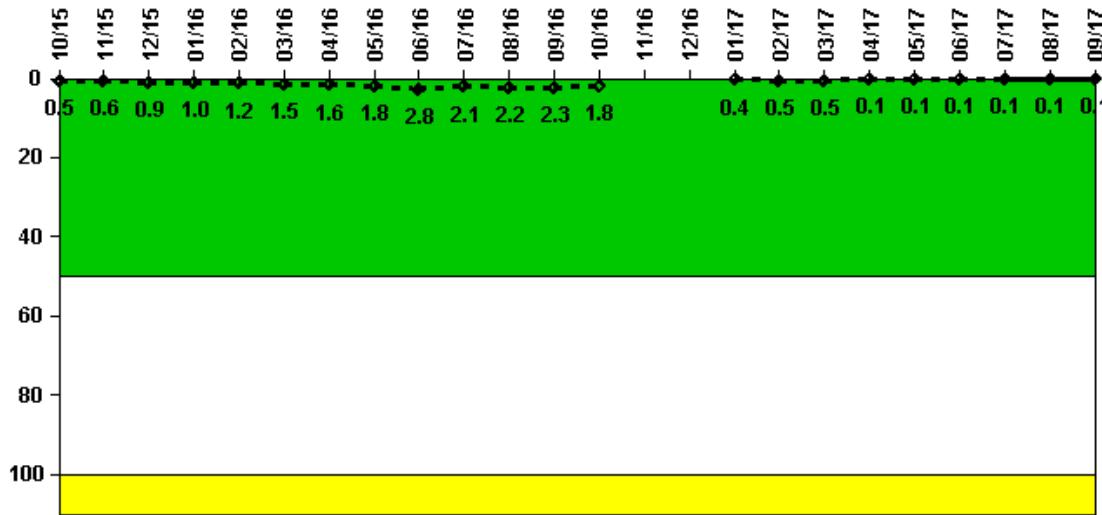
4Q/16: Changed PRA Parameter(s).

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2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

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Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

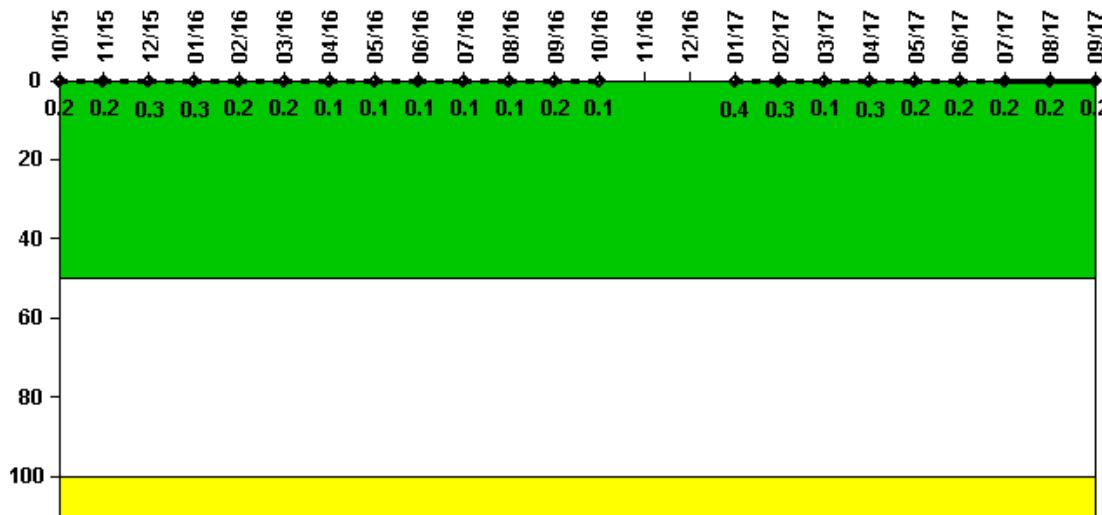
Reactor Coolant System Activity	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum activity	0.001750	0.002240	0.003130	0.003570	0.004090	0.005100	0.005680	0.006340	0.009910	0.007240	0.007810	0.008130
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	0.5	0.6	0.9	1.0	1.2	1.5	1.6	1.8	2.8	2.1	2.2	2.3
Reactor Coolant System Activity	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum activity	0.006350	N/A	N/A	0.001320	0.001730	0.001790	0.000928	0.000981	0.001030	0.001040	0.001060	0.001140
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.8	N/A	N/A	0.4	0.5	0.5	0.1	0.1	0.1	0.1	0.1	0.1

TOP

Licensee Comments:

6/17: Technical Specification Limit I-131 value was changed 3/31/17. This change is effective beginning with the second quarter 2017. This change did not result in a change in indicator color.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage 10/15 11/15 12/15 1/16 2/16 3/16 4/16 5/16 6/16 7/16 8/16 9/16

Maximum leakage 0.024 0.022 0.031 0.034 0.019 0.018 0.014 0.015 0.011 0.010 0.007 0.025

Technical specification limit 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0

Indicator value 0.2 0.2 0.3 0.3 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.2

Reactor Coolant System Leakage 10/16 11/16 12/16 1/17 2/17 3/17 4/17 5/17 6/17 7/17 8/17 9/17

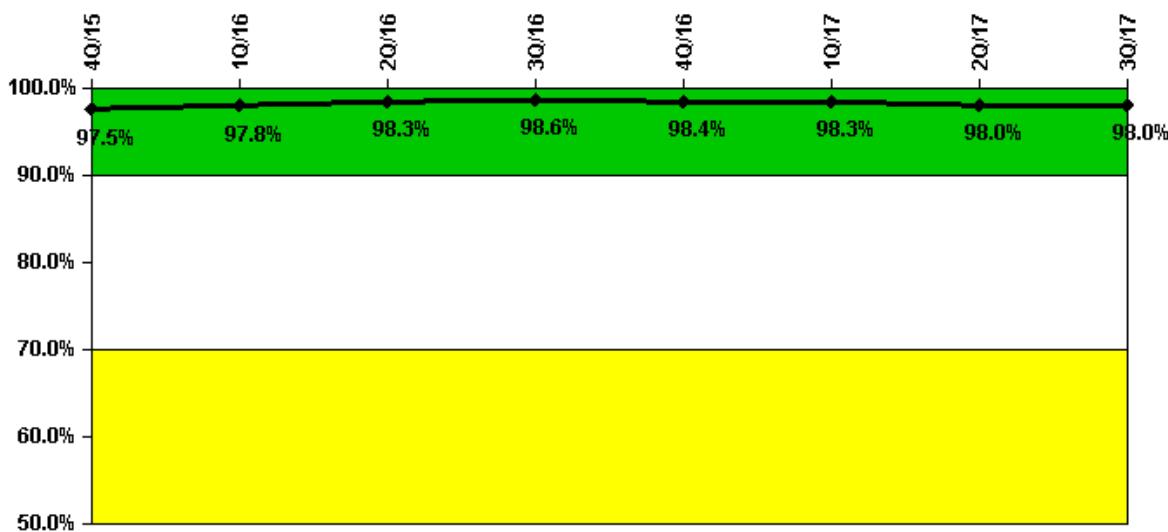
Maximum leakage 0.015 N/A N/A 0.042 0.033 0.015 0.030 0.019 0.019 0.018 0.018 0.026

Technical specification limit 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0

Indicator value 0.1 N/A N/A 0.4 0.3 0.1 0.3 0.2 0.2 0.2 0.2 0.2

TOP

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

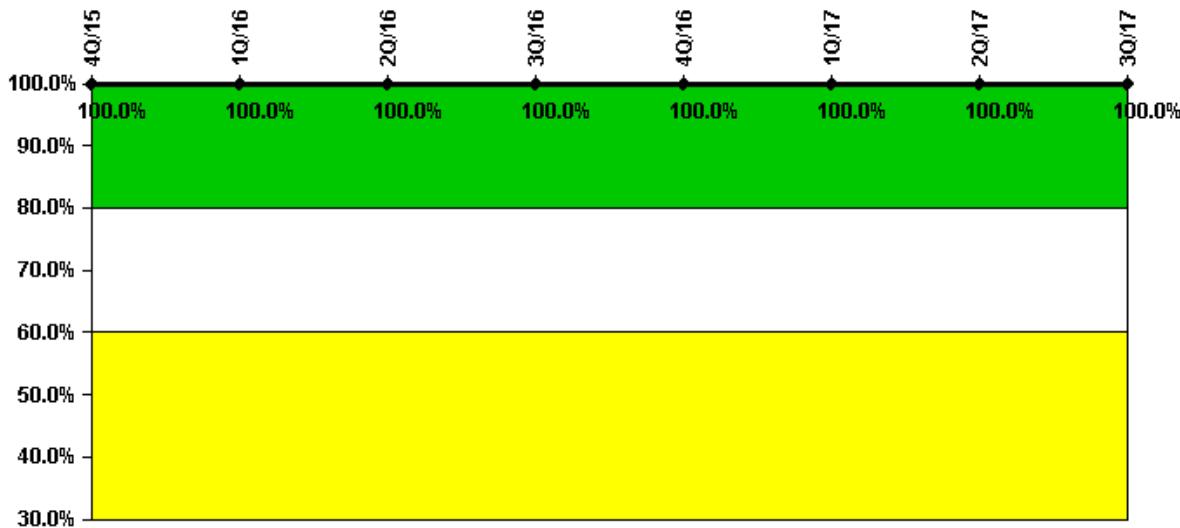
Drill/Exercise Performance	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful opportunities	56.0	62.0	34.0	81.0	1.0	48.0	58.0	51.0
Total opportunities	60.0	62.0	34.0	82.0	1.0	49.0	60.0	51.0

Indicator value **97.5% 97.8% 98.3% 98.6% 98.4% 98.3% 98.0% 98.0%**

TOP

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Participating Key personnel	132.0	132.0	109.0	116.0	115.0	110.0	110.0	110.0
Total Key personnel	132.0	132.0	109.0	116.0	115.0	110.0	110.0	110.0

Indicator value 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%

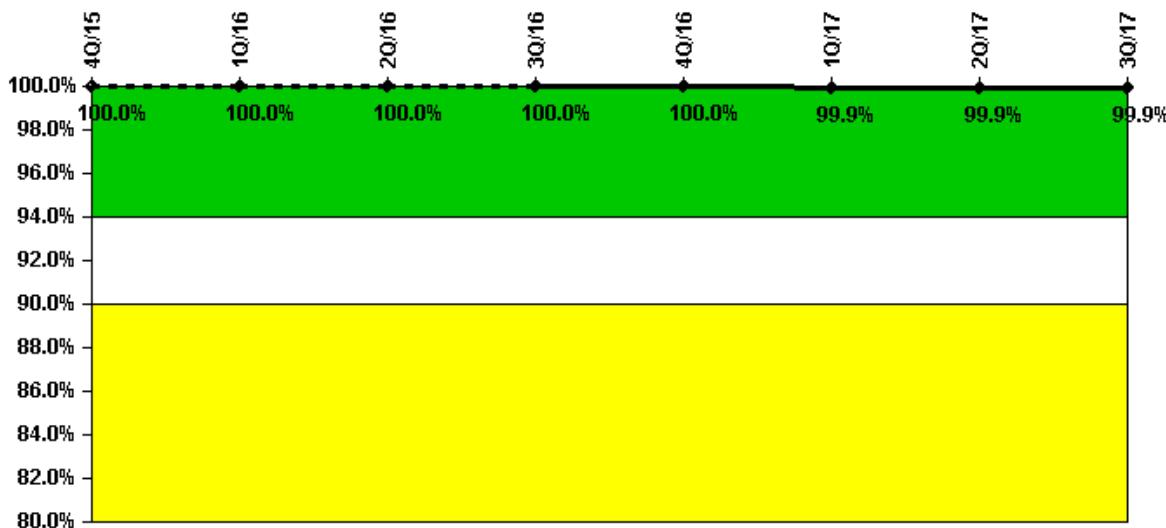
TOP

Licensee Comments:

4Q/16: Newly added drill participant was not counted. Data was corrected to reflect the change.

3Q/16: Newly added drill participant was not counted. Data was corrected to reflect the change.

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

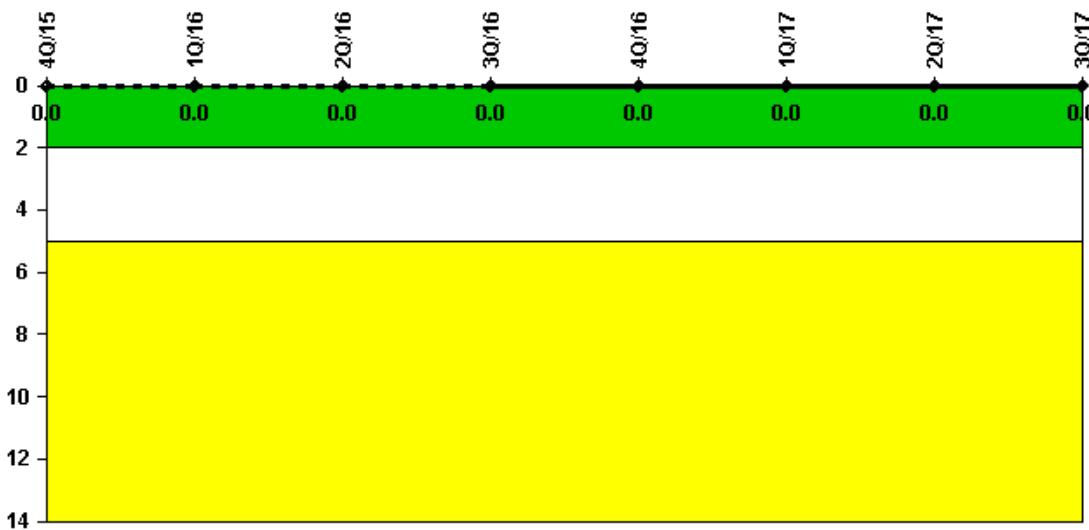
Notes

Alert & Notification System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful siren-tests	1120	1119	1119	1050	1120	1047	1119	1119
Total sirens-tests	1120	1120	1119	1050	1120	1050	1119	1120

Indicator value **100.0% 100.0% 100.0% 100.0% 100.0% 99.9% 99.9% 99.9%**

TOP

Licensee Comments: none

Occupational Exposure Control Effectiveness

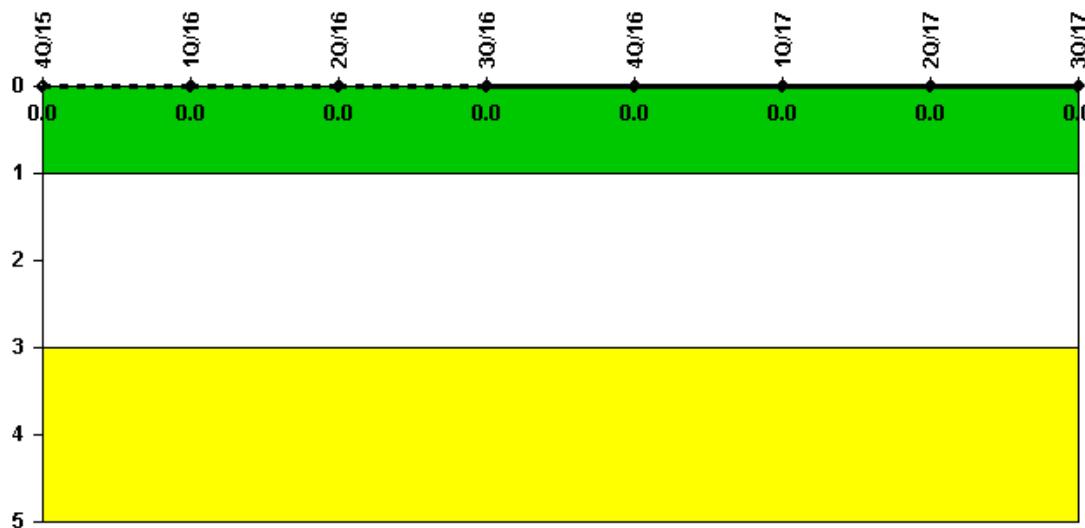
Thresholds: White > 2.0 Yellow > 5.0

Notes**Occupational Exposure Control Effectiveness** 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17

High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

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Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17
RETS/ODCM occurrences 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

TOP

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: October 31, 2017

Page Last Reviewed/Updated Monday, November 06, 2017



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries > D.C. Cook 2 > Quarterly Performance Indicators

D.C. Cook 2 – Quarterly Performance Indicators

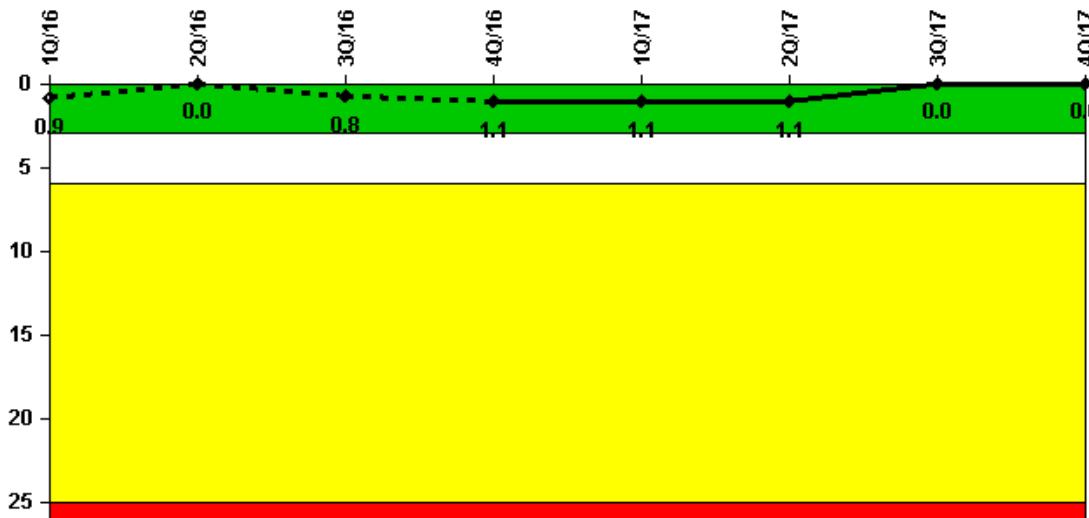
4Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

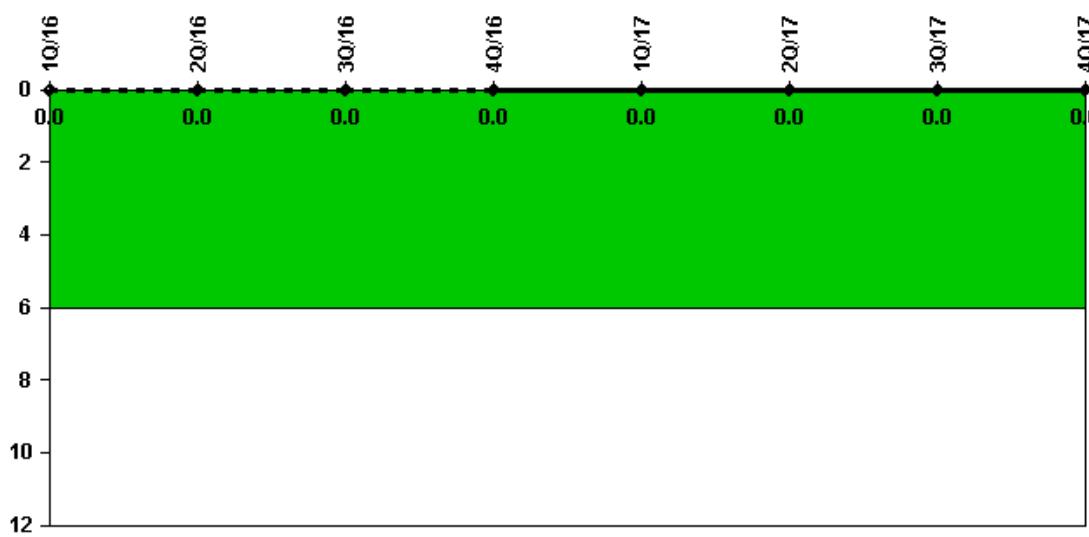
Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2183.0	2184.0	2056.0	96.0	2152.9	2184.0	2208.0	2209.0

Indicator value	0.9	0	0.8	1.1	1.1	1.1	0	0
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Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

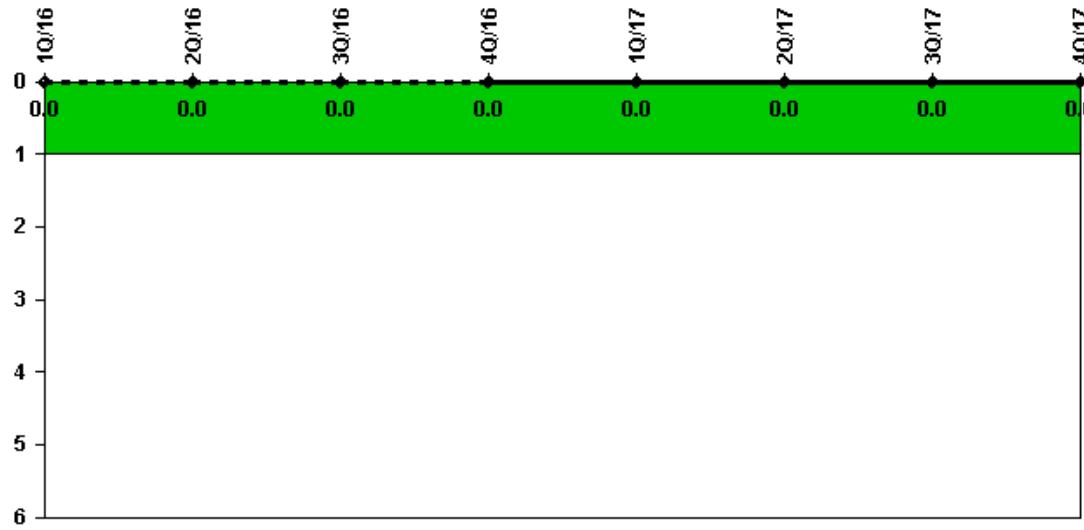
Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2056.0	96.0	2152.9	2184.0	2208.0	2209.0

Indicator value 0 0 0 0 0 0 0 0 0



Licensee Comments: none



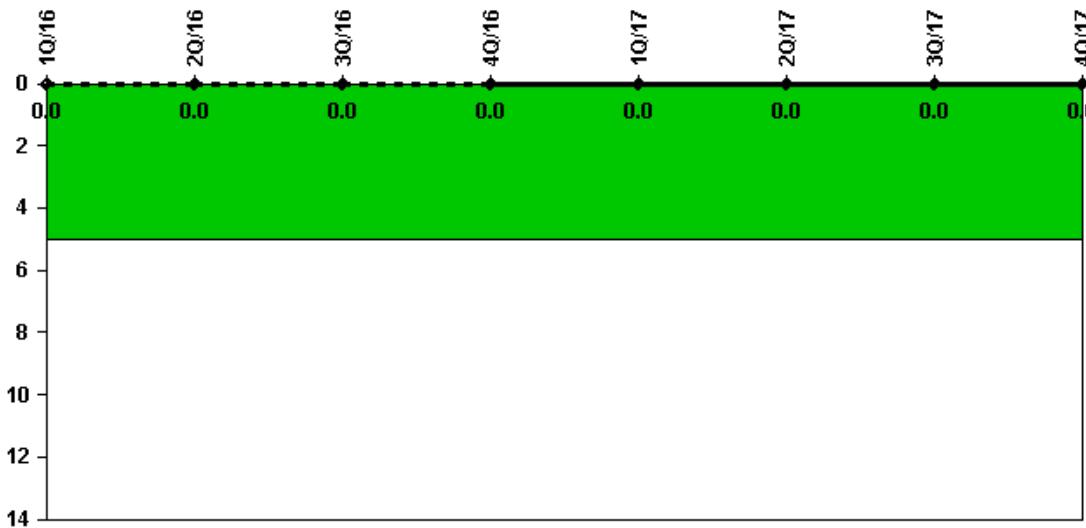
Thresholds: White > 1.0

Notes

Indicator value 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0



Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

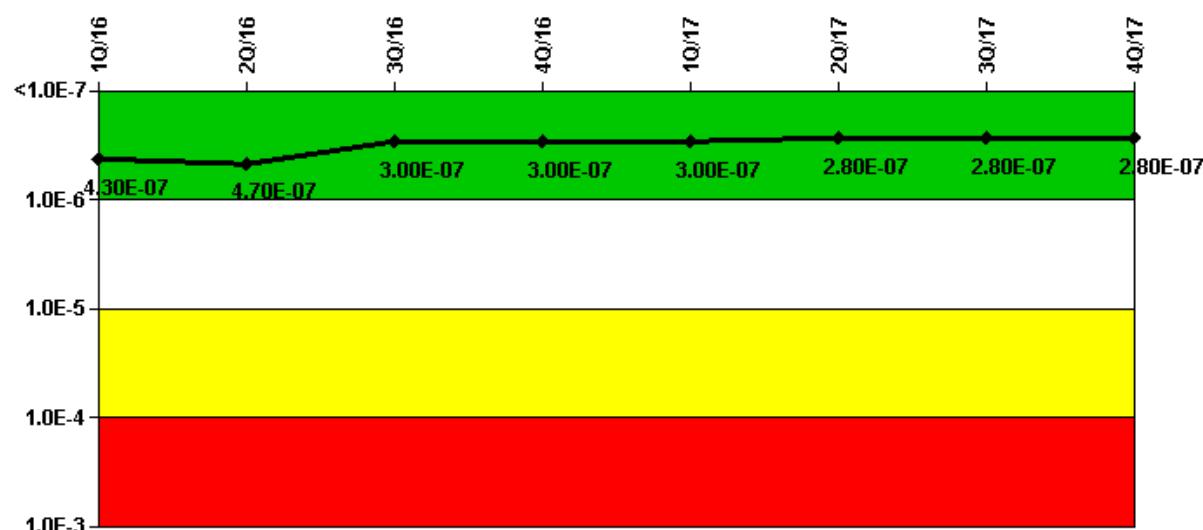
Notes

Safety System Functional Failures (PWR) 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17 4Q/17
Safety System Functional Failures 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

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Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes**Mitigating Systems Performance Index, Emergency****AC Power System**UAI (Δ CDF)**1Q/16** **2Q/16** **3Q/16** **4Q/16** **1Q/17** **2Q/17** **3Q/17** **4Q/17**

2.76E- 5.37E- 4.26E- 2.26E- 2.13E- -1.50E- -1.49E- -1.50E-

09 09 09 09 09 08 08 08

URI (Δ CDF)

4.25E- 4.69E- 2.98E- 2.98E- 2.98E-

07 07 07 07 07

PLE

NO NO NO NO NO NO NO NO

Indicator value **4.30E-07** **4.70E-07** **3.00E-07** **3.00E-07** **3.00E-07** **TOP****Licensee Comments:**

3Q/17: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/17 with a corresponding MSPI Basis Document revision approved on 08/31/17. Revision 13 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which added flooding events that were initially screened out of the PRA. Because MSPI expressly excludes flooding from the analysis, these changes had no impact on PRA MSPI data. In addition to the flooding changes, this model of record incorporates the addition of failure modes to interfacing systems LOCA modeling in order to resolve F&Os from the 2015 peer review. Containment event trees for AFW were also modified in order to increase quantification efficiency.

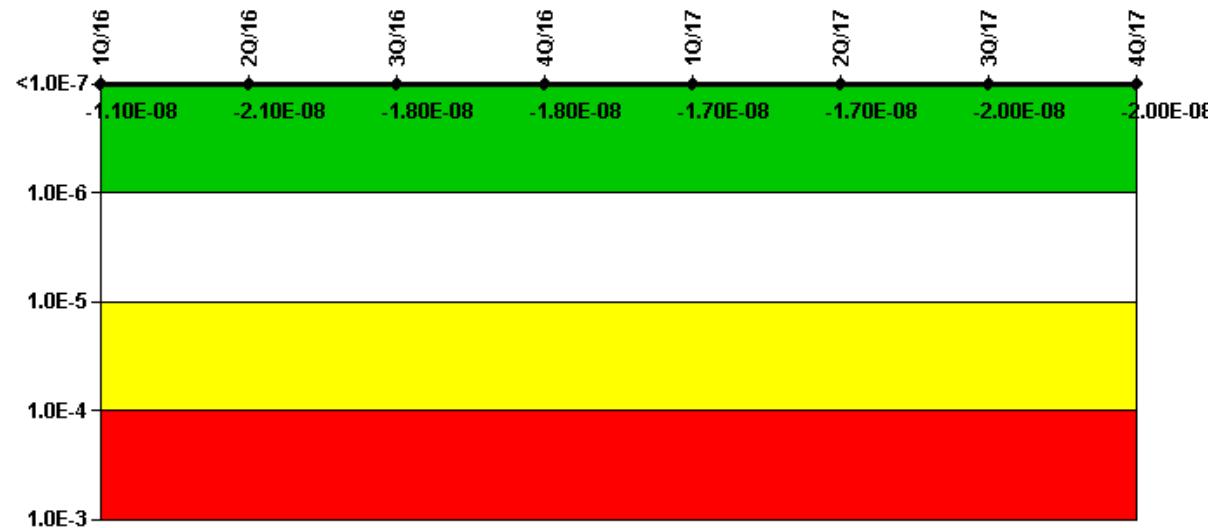
4Q/16: Engineering testing and analysis determined that the previously identified design and manufacturing issue with the fuel injection pump delivery valve holders did not result in a run time failure for any of the emergency diesel generators.

4Q/16: Engineering testing is being conducted on the fuel injection pump delivery valve holders to evaluate a design and manufacturing issue which will determine the impact on the run time failures being reported. Run time failures are being reported conservatively pending the results of this testing.

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

2Q/16: Risk Cap Invoked. Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (Δ CDF)	-1.43E-09	-3.81E-09	-2.16E-09	-1.92E-09	-1.31E-09	-1.31E-09	-3.65E-09	-3.69E-09
URI (Δ CDF)	-9.11E-09	-1.68E-08	-1.61E-08	-1.61E-08	-1.61E-08	-1.61E-08	-1.60E-08	-1.60E-08
PLE	NO							
Indicator value	-1.10E-08	-2.10E-08	-1.80E-08	-1.80E-08	-1.70E-08	-1.70E-08	-2.00E-08	-2.00E-08

TOP

Licensee Comments:

3Q/17: The D.C. Cook PRA Model revision was approved on 06/30/17 with a corresponding MSPI Basis Document revision approved on 08/31/17. Revision 13 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which added flooding events that were initially screened out of the PRA. Because MSPI expressly excludes flooding from the analysis, these changes had no impact on PRA MSPI data. In addition to the flooding changes, this model of record incorporates the addition of failure modes to interfacing systems LOCA modeling in order to resolve F&Os from the 2015 peer review. Containment event trees for AFW were also modified in order to increase quantification efficiency. Revision to previously reported unavailability hours to include surveillance which opens Charging Mini-Flow Breaker with valve in open position. Change affects 1 & 3 qtrs of 2015, 2016, and 2017. These changes do not result in MSPI color change.

3Q/17: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/17 with a corresponding MSPI Basis Document revision approved on 08/31/17. Revision 13 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which added flooding events that were initially screened out of the PRA. Because MSPI expressly excludes flooding from the analysis, these changes had no impact on PRA MSPI data. In addition to the flooding changes, this model of record incorporates the addition of failure modes to interfacing systems LOCA modeling in order to resolve F&Os from the 2015 peer review. Containment event trees for AFW were also modified in order to increase quantification efficiency.

1Q/17: Revision to previously reported unavailability hours to include surveillance which opens Charging Mini-Flow Breaker with valve in open position. Change affects 1 & 3 qtrs of 2015, 2016, and 2017. These changes do not result in MSPI color change.

4Q/16: Changed PRA Parameter(s).

3Q/16: The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved

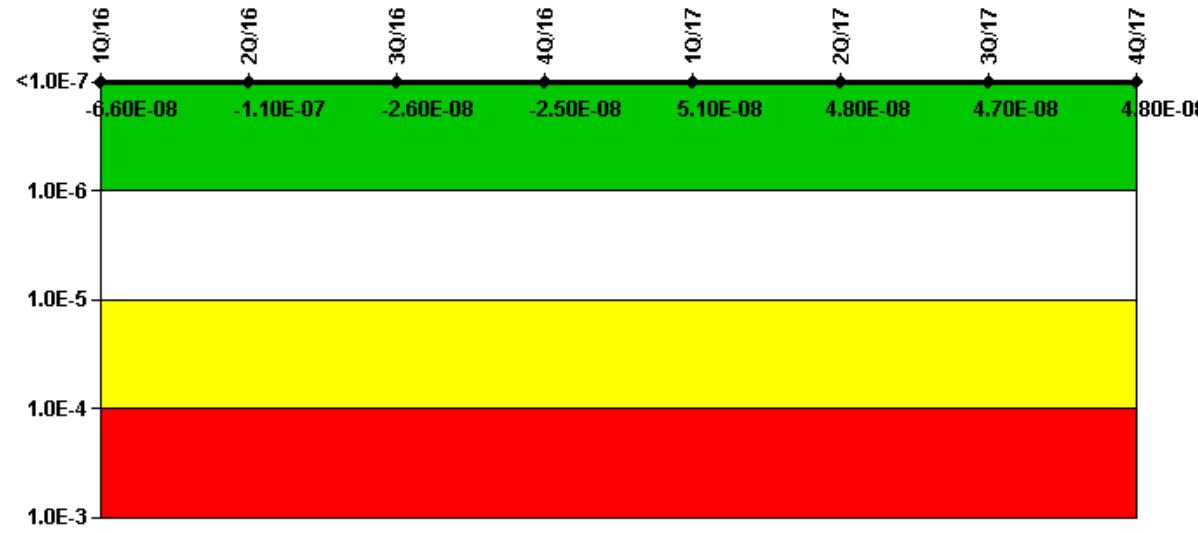
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1Q/16: Revision to previously reported unavailability hours to include surveillance which opens Charging Mini-Flow Breaker with valve in open position. Change affects 1 & 3 qtrs of 2015, 2016, and 2017. These changes do not result in MSPI color change.

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (Δ CDF)	-1.45E-08	-2.77E-08	-5.60E-09	-5.42E-09	-1.94E-09	-4.61E-09	-5.52E-09	-5.53E-09
URI (Δ CDF)	-5.15E-08	-7.92E-08	-2.01E-08	-2.01E-08	5.29E-08	5.29E-08	5.26E-08	5.40E-08
PLE	NO							

Indicator value	-6.60E-08	-1.10E-07	-2.60E-08	-2.50E-08	5.10E-08	4.80E-08	4.70E-08	4.80E-08

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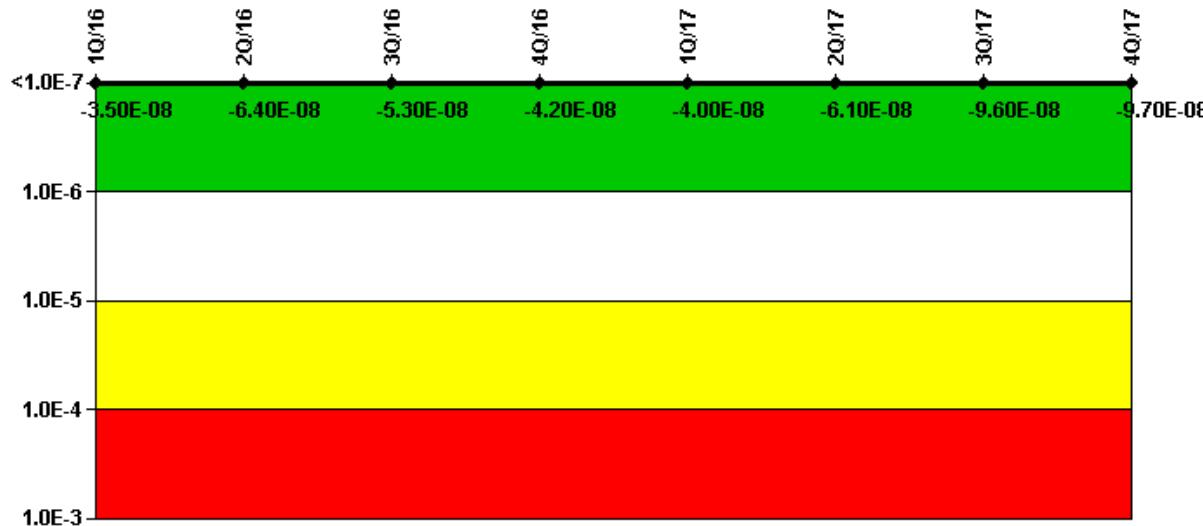
Licensee Comments:

3Q/17: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/17 with a corresponding MSPI Basis Document revision approved on 08/31/17. Revision 13 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which added flooding events that were initially screened out of the PRA. Because MSPI expressly excludes flooding from the analysis, these changes had no impact on PRA MSPI data. In addition to the flooding changes, this model of record incorporates the addition of failure modes to interfacing systems LOCA modeling in order to resolve F&Os from the 2015 peer review. Containment event trees for AFW were also modified in order to increase quantification efficiency.

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (Δ CDF)	-2.85E-09	1.57E-08	2.70E-08	3.95E-08	4.20E-08	2.29E-08	-1.21E-08	-1.21E-08
URI (Δ CDF)								

	-3.25E-08	-7.98E-08	-8.02E-08	-8.13E-08	-8.24E-08	-8.35E-08	-8.42E-08	-8.53E-08
PLE	NO							
Indicator value	-3.50E-08	-6.40E-08	-5.30E-08	-4.20E-08	-4.00E-08	-6.10E-08	-9.60E-08	-9.70E-08

 TOP

Licensee Comments:

3Q/17: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/17 with a corresponding MSPI Basis Document revision approved on 08/31/17. Revision 13 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which added flooding events that were initially screened out of the PRA. Because MSPI expressly excludes flooding from the analysis, these changes had no impact on PRA MSPI data. In addition to the flooding changes, this model of record incorporates the addition of failure modes to interfacing systems LOCA modeling in order to resolve F&Os from the 2015 peer review. Containment event trees for AFW were also modified in order to increase quantification efficiency.

4Q/16: Changed PRA Parameter(s).

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (Δ CDF)	-7.27E-08	-1.57E-07	-1.47E-07	-1.45E-07	-1.71E-07	-1.06E-07	-1.05E-07	-1.04E-07
URI (Δ CDF)	-9.34E-08	-1.81E-07	-1.70E-07	-1.71E-07	-1.71E-07	-1.72E-07	-1.72E-07	-1.72E-07
PLE	NO							
Indicator value	-1.70E-07	-3.40E-07	-3.20E-07	-3.20E-07	-3.40E-07	-2.80E-07	-2.80E-07	-2.80E-07

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Licensee Comments:

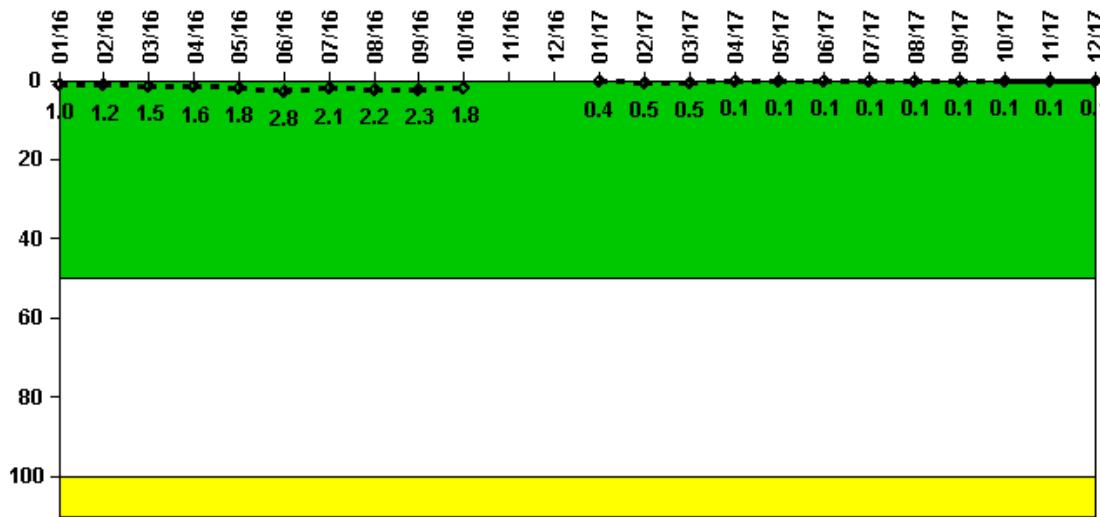
3Q/17: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/17 with a corresponding MSPI Basis Document revision approved on 08/31/17. Revision 13 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which added flooding events that were initially screened out of the PRA. Because MSPI expressly excludes flooding from the analysis, these changes had no impact on PRA MSPI data. In addition to the flooding changes, this model of record incorporates the addition of failure modes to interfacing systems LOCA modeling in order to resolve F&Os from the 2015 peer review. Containment event trees for AFW were also modified in order to increase quantification efficiency.

4Q/16: Changed PRA Parameter(s).

3Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model revision was approved on 06/30/16 with a corresponding MSPI Basis Document revision approved on 09/09/16. Revision 12 of the D.C. Cook MSPI Basis Document incorporates the update of the PRA. The PRA model revision was an update to the model which included crediting of offsite power recovery in accident scenarios that do not begin with a Loss of Offsite Power. As a result of the PRA model change, the CDF and Fussel-Vesely numbers for all monitored trains and components were revised.

2Q/16: Changed PRA Parameter(s). The D.C. Cook PRA Model Revision 2 was approved on 03/31/16 with a corresponding MSPI Basis Document Revision 10 approved on 06/02/16. New software was used to form the PRA model and to calculate risk importance to provide increased precision on the calculated metrics. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. Additionally, this revision includes changes to the model of record made to resolve facts and observations from the 2015 Peer Review of the D.C. Cook PRA model of record. The MSPI Basis Document was also updated to show compliance with the changes to NEI 99-02 Appendix G from the approval of FAQ 14-01. No new components were scoped into MSPI or excluded from monitoring due to the changes incorporated in this revision. MSPI Basis Document Revision 11 was approved on 06/29/16. This revision was for correction of typographical errors and had no numerical or programmatic impact.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

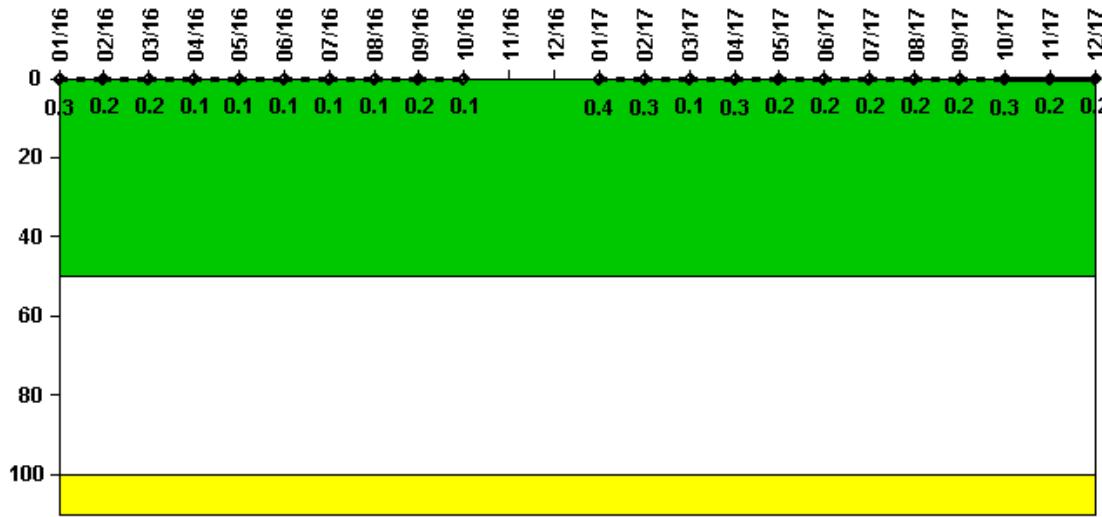
Reactor Coolant System Activity	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum activity	0.003570	0.004090	0.005100	0.005680	0.006340	0.009910	0.007240	0.007810	0.008130	0.006350	N/A	N/A
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	1.0	1.2	1.5	1.6	1.8	2.8	2.1	2.2	2.3	1.8	N/A	N/A
Reactor Coolant System Activity	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17	10/17	11/17	12/17
Maximum activity	0.001320	0.001730	0.001790	0.000928	0.000981	0.001030	0.001040	0.001060	0.001140	0.001130	0.001160	0.001180
Technical specification limit	0.4	0.4	0.4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.5	0.5	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

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Licensee Comments:

6/17: Technical Specification Limit I-131 value was changed 3/31/17. This change is effective beginning with the second quarter 2017. This change did not result in a change in indicator color.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage 1/16 2/16 3/16 4/16 5/16 6/16 7/16 8/16 9/16 10/16 11/16 12/16

Maximum leakage 0.034 0.019 0.018 0.014 0.015 0.011 0.010 0.007 0.025 0.015 N/A N/A

Technical specification limit 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0

Indicator value 0.3 0.2 0.2 0.1 0.1 0.1 0.1 0.1 0.2 0.1 N/A N/A

Reactor Coolant System Leakage 1/17 2/17 3/17 4/17 5/17 6/17 7/17 8/17 9/17 10/17 11/17 12/17

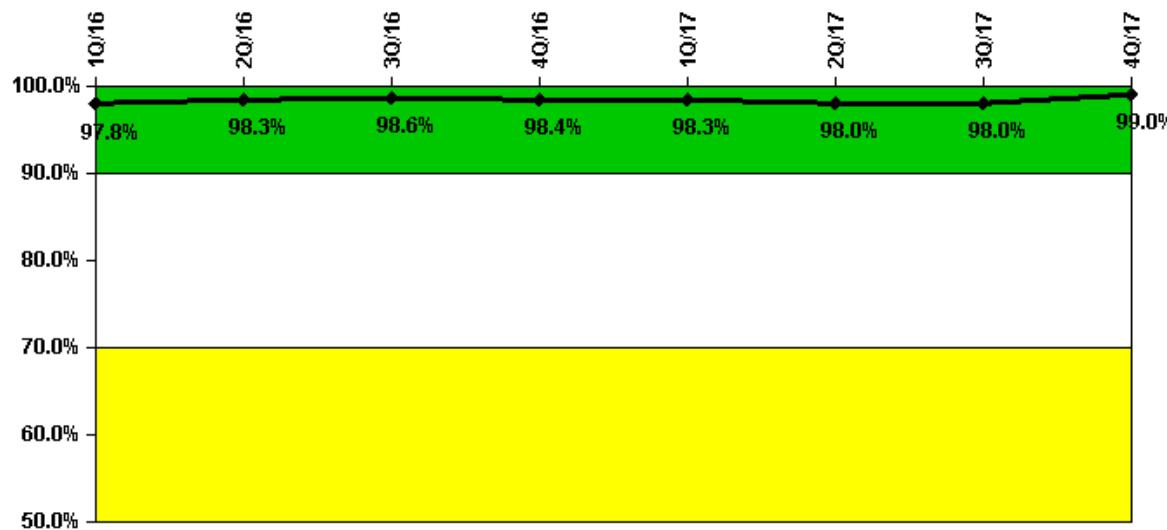
Maximum leakage 0.042 0.033 0.015 0.030 0.019 0.019 0.018 0.018 0.026 0.028 0.027 0.025

Technical specification limit 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0 11.0

Indicator value 0.4 0.3 0.1 0.3 0.2 0.2 0.2 0.2 0.2 0.3 0.2 0.2

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Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

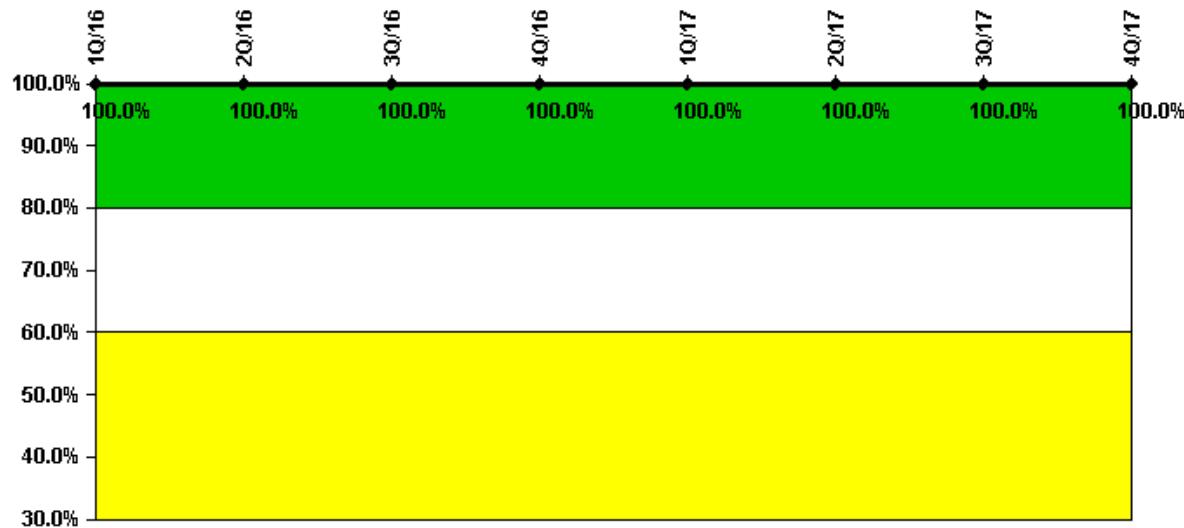
Notes

Drill/Exercise Performance	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful opportunities	62.0	34.0	81.0	1.0	48.0	58.0	51.0	74.0
Total opportunities	62.0	34.0	82.0	1.0	49.0	60.0	51.0	74.0

Indicator value 97.8% 98.3% 98.6% 98.4% 98.3% 98.0% 98.0% 99.0%

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Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Participating Key personnel	132.0	109.0	116.0	115.0	110.0	110.0	110.0	108.0
Total Key personnel	132.0	109.0	116.0	115.0	110.0	110.0	110.0	108.0

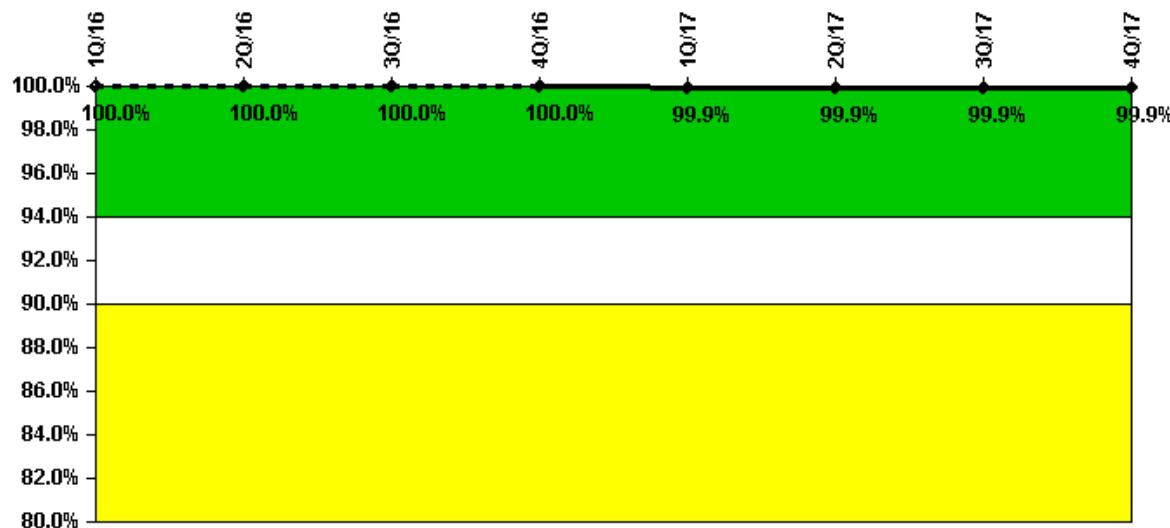
Indicator value 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%

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Licensee Comments:

4Q/16: Newly added drill participant was not counted. Data was corrected to reflect the change.

3Q/16: Newly added drill participant was not counted. Data was corrected to reflect the change.

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

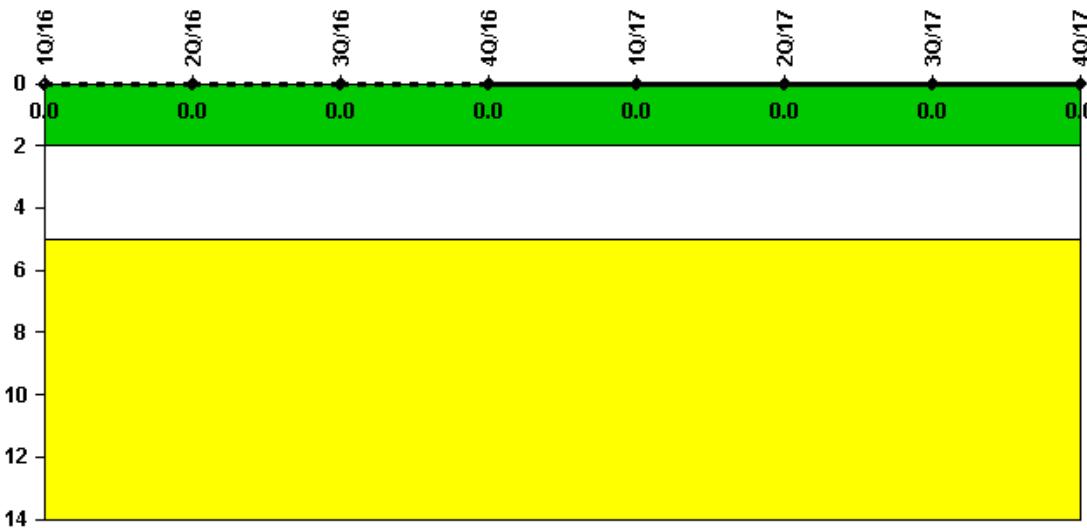
Notes

Alert & Notification System	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful siren-tests	1119	1119	1050	1120	1047	1119	1119	1119
Total sirens-tests	1120	1119	1050	1120	1050	1119	1120	1120

Indicator value 100.0% 100.0% 100.0% 100.0% 99.9% 99.9% 99.9% 99.9%

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Licensee Comments: none

Occupational Exposure Control Effectiveness

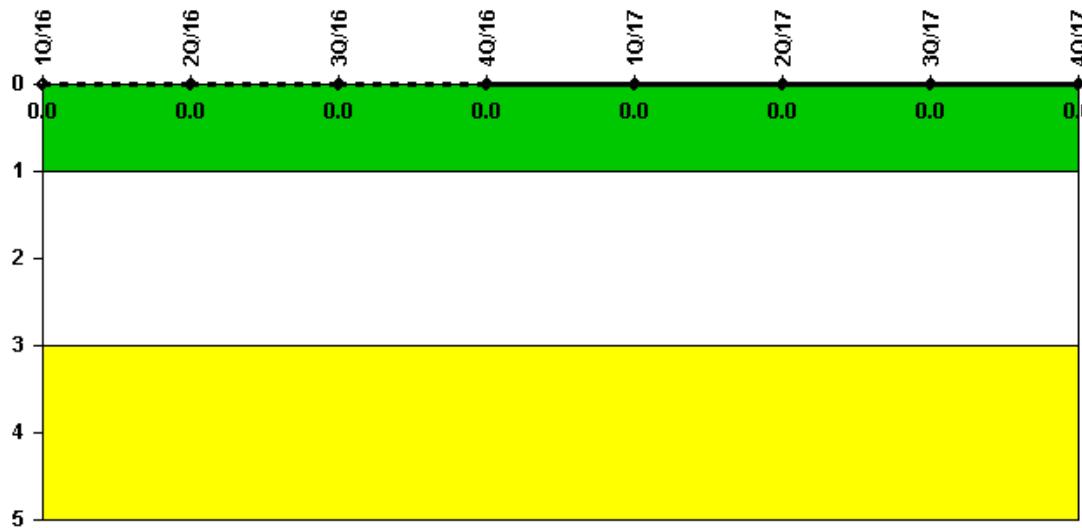
Thresholds: White > 2.0 Yellow > 5.0

Notes**Occupational Exposure Control Effectiveness** 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17 4Q/17

High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

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Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17 4Q/17
RETS/ODCM occurrences 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

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Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: February 1, 2018

Page Last Reviewed/Updated Monday, November 06, 2017