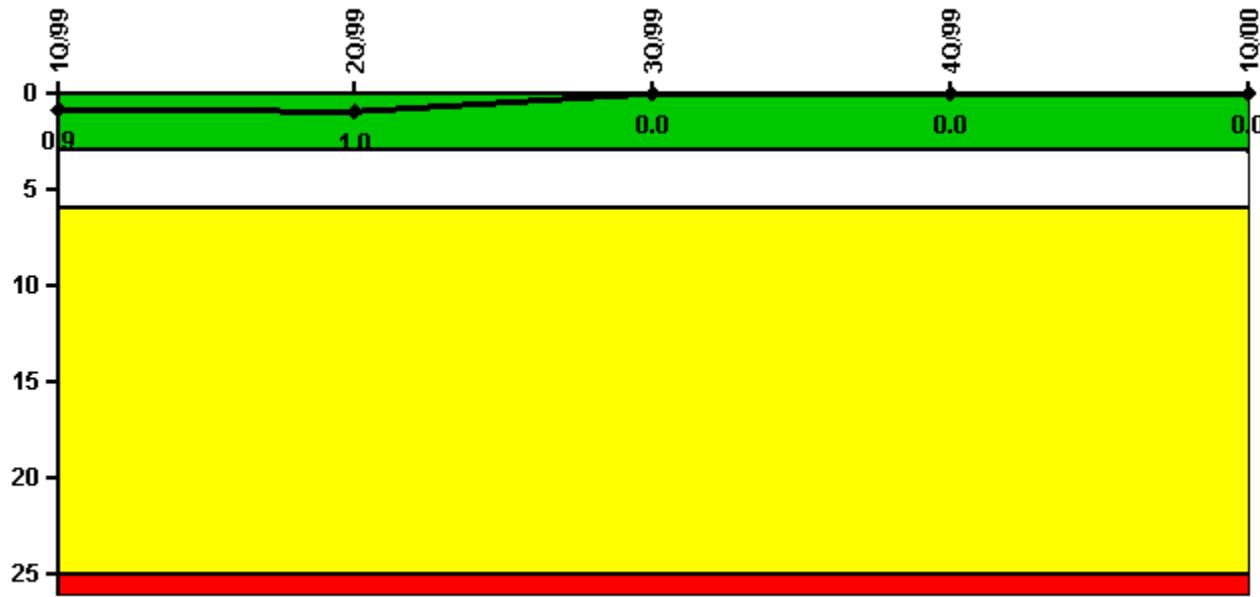


Calvert Cliffs 2**1Q/2000 Performance Indicators**

Licensee's General Comments: none

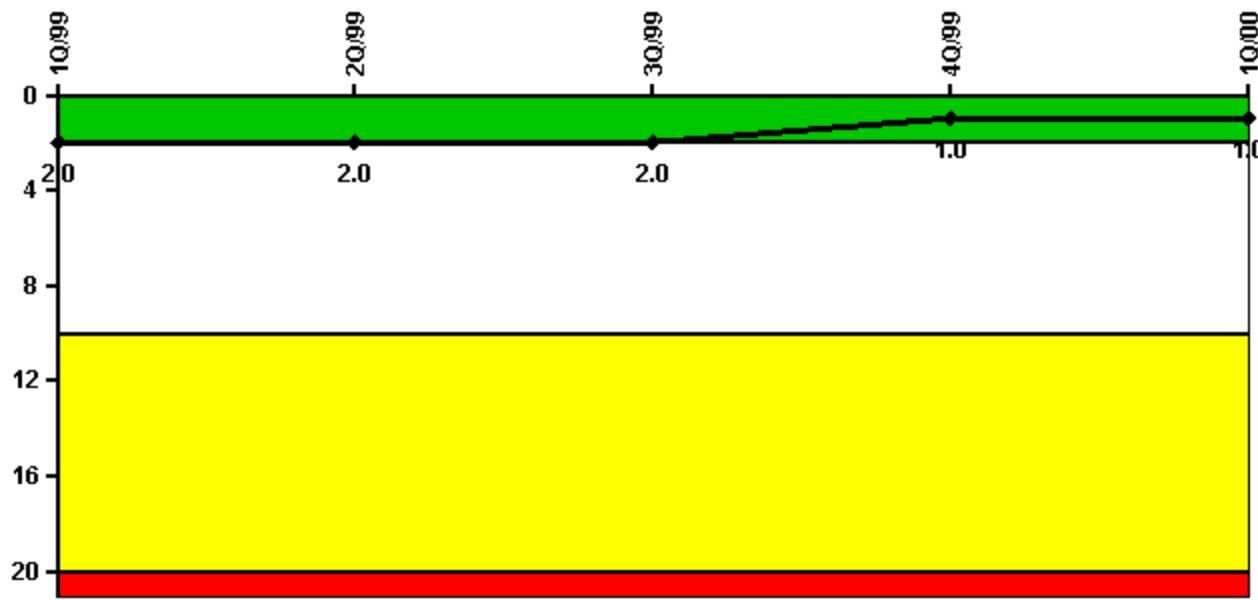
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned scrams	0	0	0	0	0
Critical hours	1704.4	1331.2	2208.0	2209.0	2019.8
Indicator value	0.9	1.0	0	0	0

Licensee Comments: none

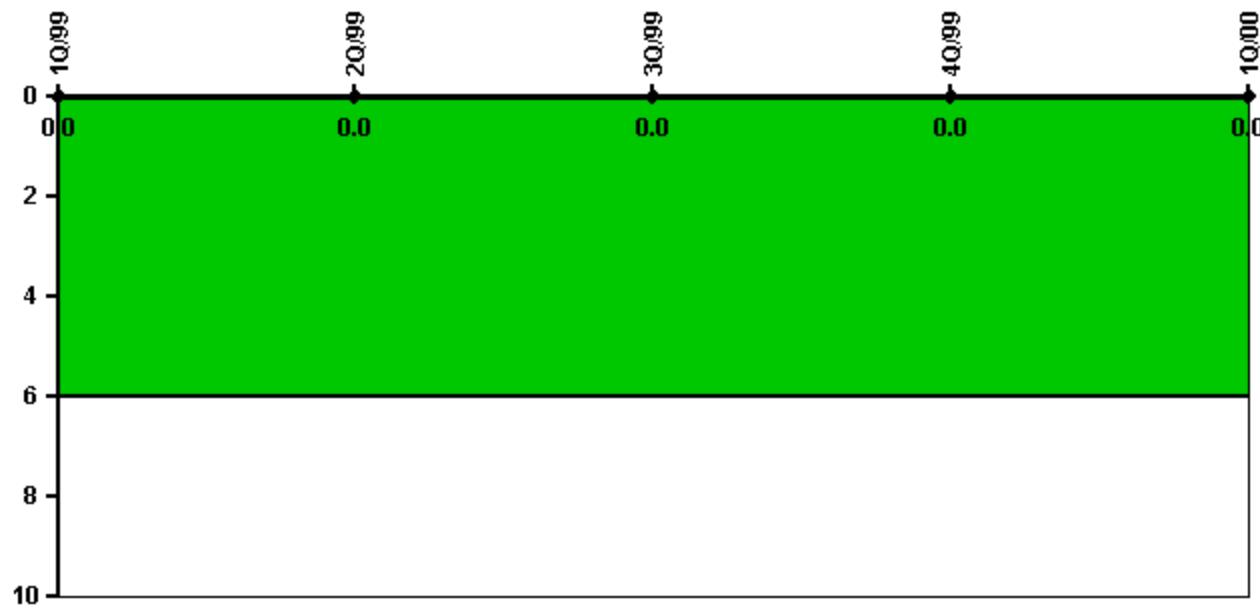
Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Scrams	0	0	0	0	0
Indicator value	2.0	2.0	2.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

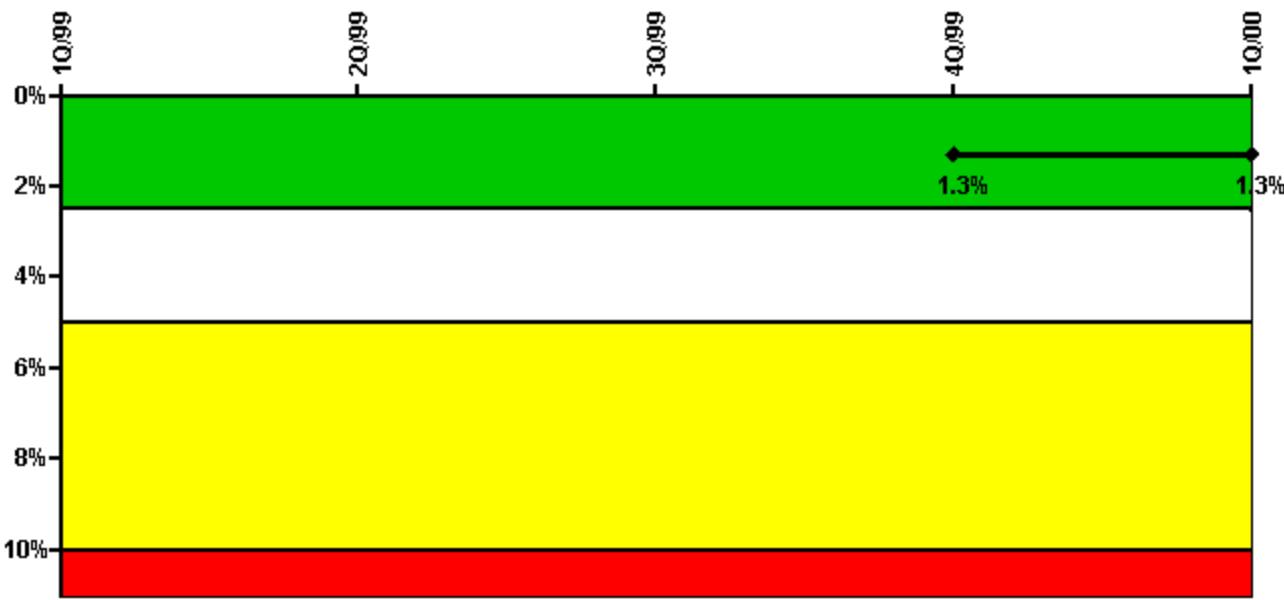
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned power changes	0	0	0	0	0
Critical hours	1704.4	1331.2	2208.0	2209.0	2019.8
Indicator value	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/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	37.98	2.33	0	2.15	31.00
Unplanned unavailable hours	0.33	0	2.75	10.83	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Train 2					
Planned unavailable hours	37.25	13.72	0	0.12	13.38
Unplanned unavailable hours	3.25	0	0	8.40	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value				1.3%	1.3%

Licensee Comments:

1Q/00: During a self-assessment, we identified unavailable hours that were not reported for the safety-related A or B train diesel generator being out-of-service. Previous reporting credited the station blackout OC diesel generator while the safety related diesel generator was out-of-service for maintenance. After reviewing Frequently Asked Questions 167 and 218, we have concluded that use of the OC diesel generator can not be credited. In addition, previous reporting of unavailable hours did not utilize the exclusion of planned overhaul hours because we were crediting the OC diesel generator. This change report also includes the exclusion of planned overhaul hours in our diesel generator unavailability reporting. This change does not change the color of the performance indicator.

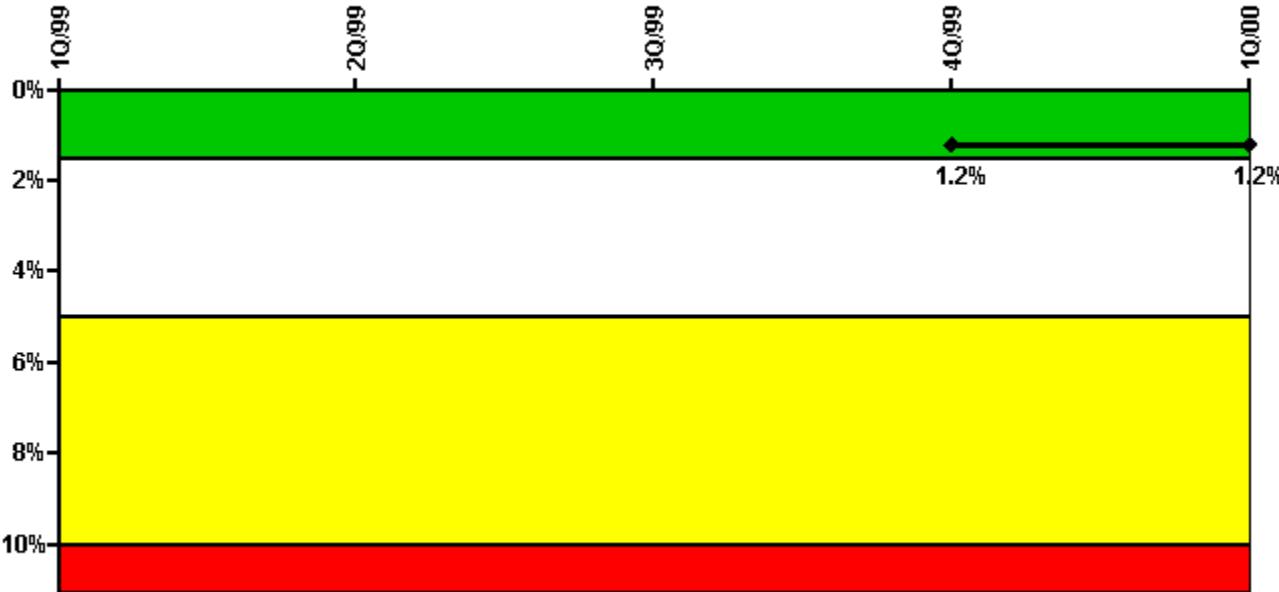
1Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

1Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Emergency AC Power system has changed to reflect a small increase in unavailable hours incurred during emergency diesel generator (EDG) testing. Specifically, unavailable hours are now incurred when performing barring of the EDG whether it is done manually or through the use of air barring. The change does not affect the "color" of the indicator.

4Q/99: During a self-assessment, we identified unavailable hours that were not reported for the safety-related A or B train diesel generator being out-of-service. Previous reporting credited the station blackout OC diesel generator while the safety related diesel generator was out-of-service for maintenance. After reviewing Frequently Asked Questions 167 and 218, we have concluded that use of the OC diesel generator can not be credited. In addition, previous reporting of unavailable hours did not utilize the exclusion of planned overhaul hours because we were crediting the OC diesel generator. This change report also includes the exclusion of planned overhaul hours in our diesel generator unavailability reporting. This change does not change the color of the performance indicator.

3Q/99: During a self-assessment, we identified unavailable hours that were not reported for the safety-related A or B train diesel generator being out-of-service. Previous reporting credited the station blackout OC diesel generator while the safety related diesel generator was out-of-service for maintenance. After reviewing Frequently Asked Questions 167 and 218, we have concluded that use of the OC diesel generator can not be credited. In addition, previous reporting of unavailable hours did not utilize the exclusion of planned overhaul hours because we were crediting the OC diesel generator. This change report also includes the exclusion of planned overhaul hours in our diesel generator unavailability reporting. This change does not change the color of the performance indicator.

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	35.68	4.08	1.13	18.03	17.50
Unplanned unavailable hours	0	0	0	10.83	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1704.40	1331.20	2208.00	2209.00	2019.80
Train 2					

Planned unavailable hours	38.26	16.05	36.79	1.66	12.84
Unplanned unavailable hours	3.25	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1704.40	1331.20	2208.00	2209.00	2019.80
Indicator value				1.2%	1.2%

Licensee Comments:

4Q/99: In accordance with NEI 99-02 Revision 0, performance indicator data submitted prior to the issuance of Revision 0 has been revised to reflect current guidance. The revised data (2Q1997 through 4Q1999) for the January 2000 historical data submittal for this indicator is provided with this change report.

1Q/98: During implementation of a new process to uniquely designate and identify unavailability records for the NRC performance indicators, we discovered some small errors in the unavailability data reported for 1998. These changes do not impact the color of the performance indicator.

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	22.00	9.25	1.00
Unplanned unavailable hours	0	0	0	0	5.12
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1704.40	1331.20	2208.00	2209.00	2019.80
Train 2					

Planned unavailable hours	0	0	22.42	9.25	1.00
Unplanned unavailable hours	0	0	4.00	0	5.12
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1704.40	1331.20	2208.00	2209.00	2019.80
Train 3					
Planned unavailable hours	0	1.72	5.25	11.00	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	1704.40	1331.20	2208.00	2209.00	2019.80
Indicator value				0.6%	0.5%

Licensee Comments:

1Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Auxiliary Feedwater (AFW) system has changed to reflect a small increase in unavailable hours incurred during AFW testing. Specifically, unavailable hours are now incurred when the AFW steam driven pumps are tripped until the steam valves are reset. The change does not affect the "color" of the indicator.

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	438.90	804.00	0	0	109.90
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	438.90	804.00	0	0	109.90
Train 3					
Planned unavailable hours	38.11	5.79	61.58	26.93	18.60
Unplanned unavailable hours	0	0	0	10.83	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1721.10	1379.00	2208.00	2209.00	2074.10
Train 4					
Planned unavailable hours	40.21	28.17	36.98	1.43	15.10
Unplanned unavailable hours	3.25	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1721.10	1379.00	2208.00	2209.00	2074.10
Indicator value				0.9%	0.8%

Licensee Comments:

1Q/00: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

1Q/00: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

4Q/99: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

4Q/99: In accordance with NEI 99-02 Revision 0, performance indicator data submitted prior to the issuance of Revision 0 has been revised to reflect current guidance. The revised data (2Q1997 through 4Q1999) for the January 2000 historical data submittal for this indicator is provided with this change report. This revised indicator data maintained the color of the indicator green in view of the revised indicator threshold.

4Q/99: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

3Q/99: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

3Q/99: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

2Q/99: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

2Q/99: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

1Q/99: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

1Q/99: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

4Q/98: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

4Q/98: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

3Q/98: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

3Q/98: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

2Q/98: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

2Q/98: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

1Q/98: During implementation of a new process to uniquely designate and identify unavailability records for the NRC performance indicators, we discovered some small errors in the planned unavailability data reported for 1998. These changes do not change the color of the performance indicator.

1Q/98: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

1Q/98: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

4Q/97: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

4Q/97: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

3Q/97: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

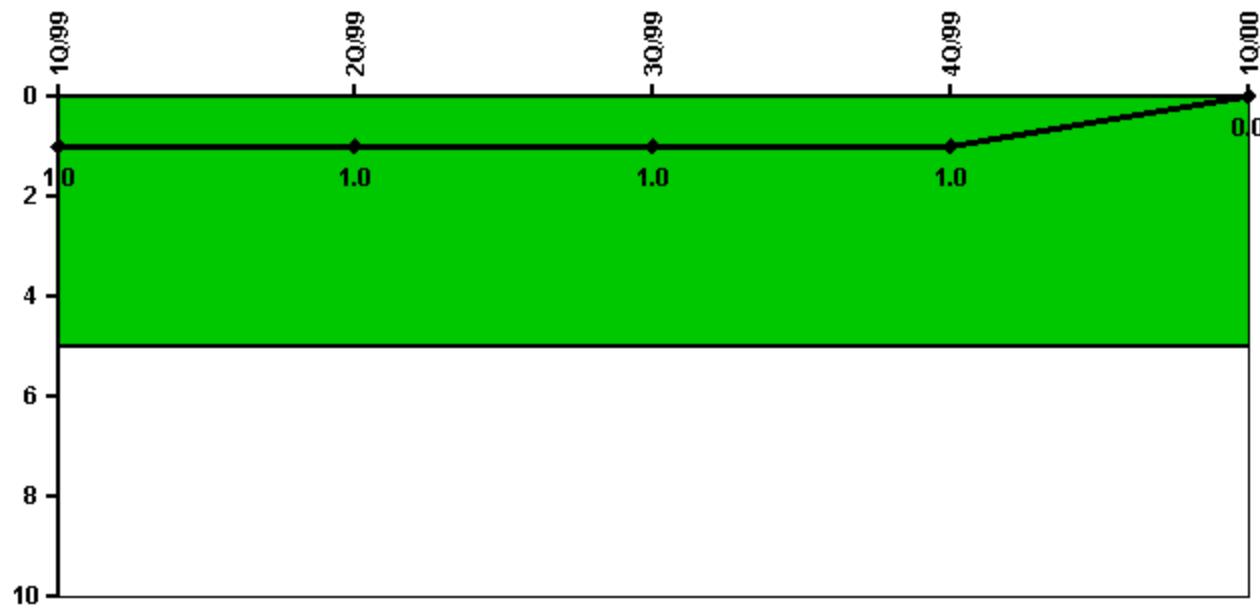
3Q/97: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

2Q/97: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

2Q/97: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

1Q/97: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

1Q/97: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

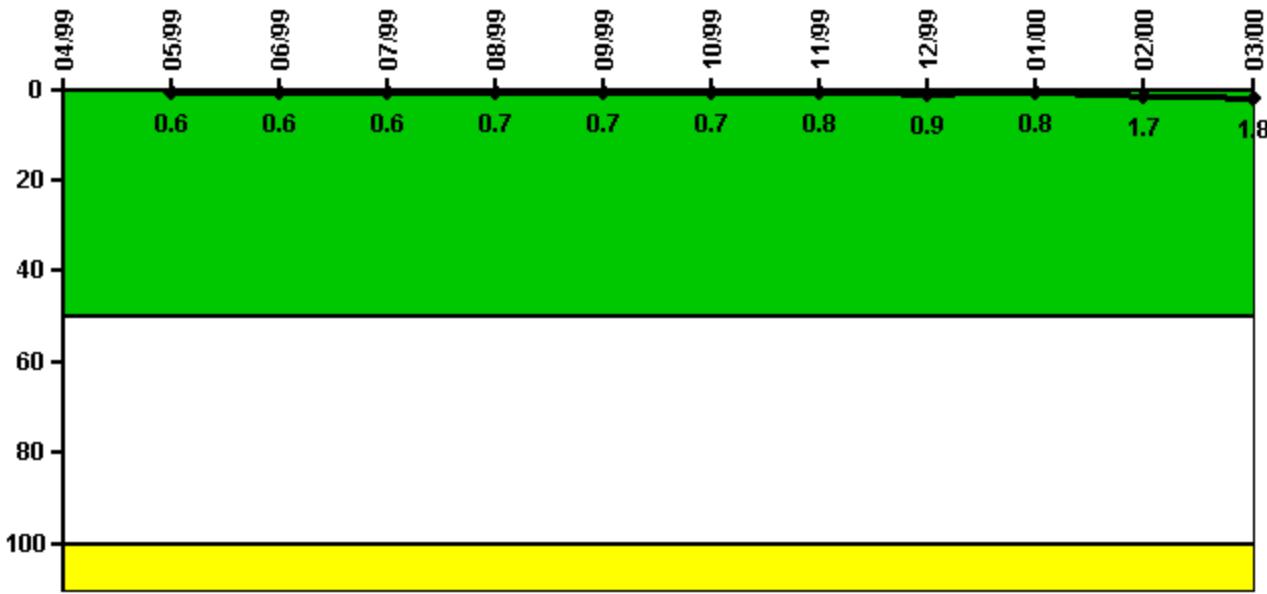
Safety System Functional Failures (PWR)

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	0	0	0	0
Indicator value	1	1	1	1	0

Licensee Comments: none

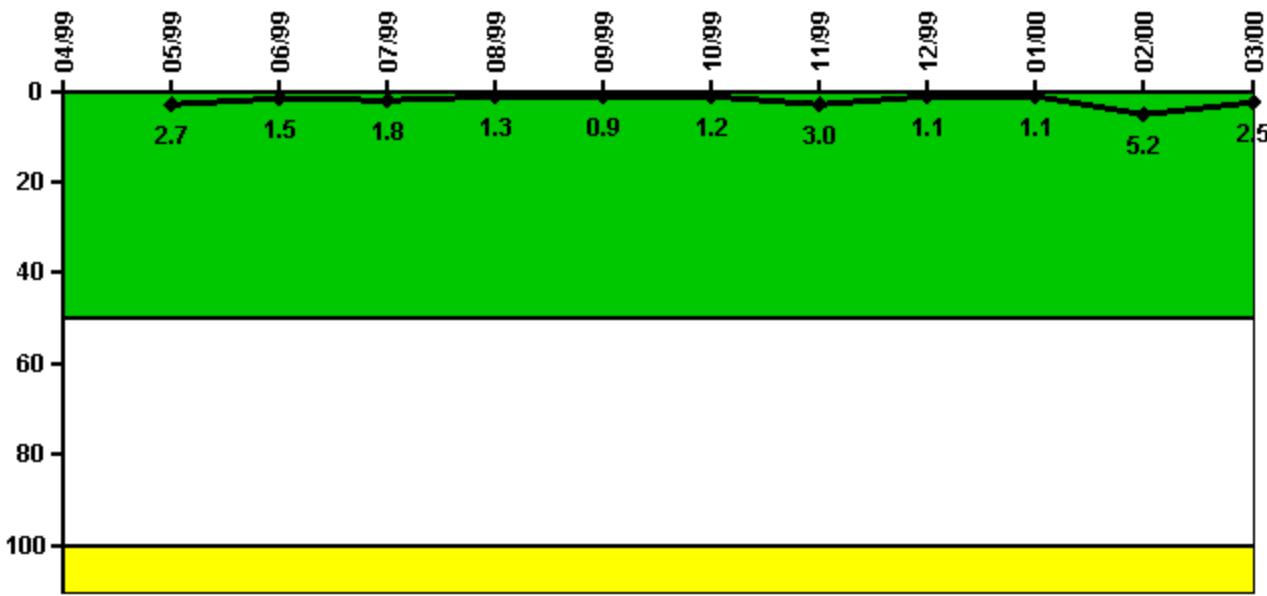
Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum activity	N/A	0.006140	0.005890	0.006330	0.006750	0.007350	0.006880	0.007570	0.008840	0.008020	0.017200	0.018400
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	0.6	0.6	0.6	0.7	0.7	0.7	0.8	0.9	0.8	1.7	1.8

Licensee Comments: none

Reactor Coolant System Leakage

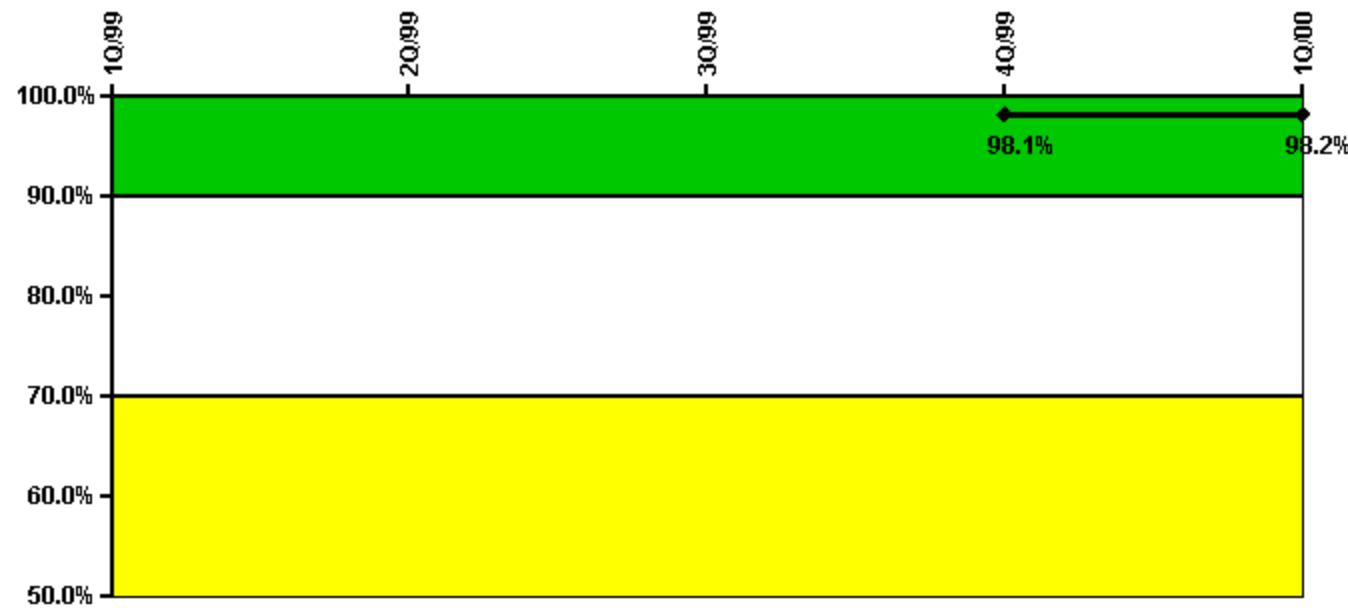
Thresholds: White > 50.0 Yellow > 100.0

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	N/A	0.270	0.150	0.180	0.130	0.090	0.120	0.305	0.110	0.114	0.521	0.254
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												

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

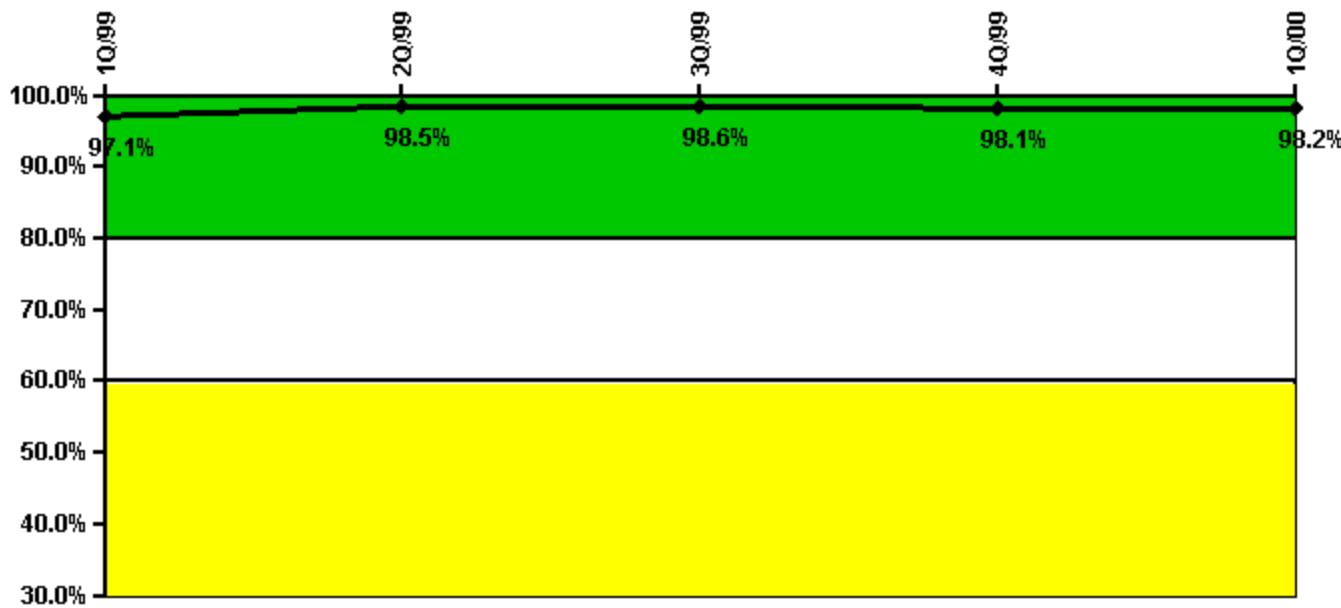
Drill/Exercise Performance	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful opportunities	24.0	29.0	34.0	57.0	10.0
Total opportunities	24.0	29.0	34.0	59.0	10.0
Indicator value				98.1%	98.2%

Licensee Comments:

1Q/00: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised from 16 to 10. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

4Q/99: Previously submitted data for the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

3Q/99: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised from 50 to 34. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

ERO Drill Participation

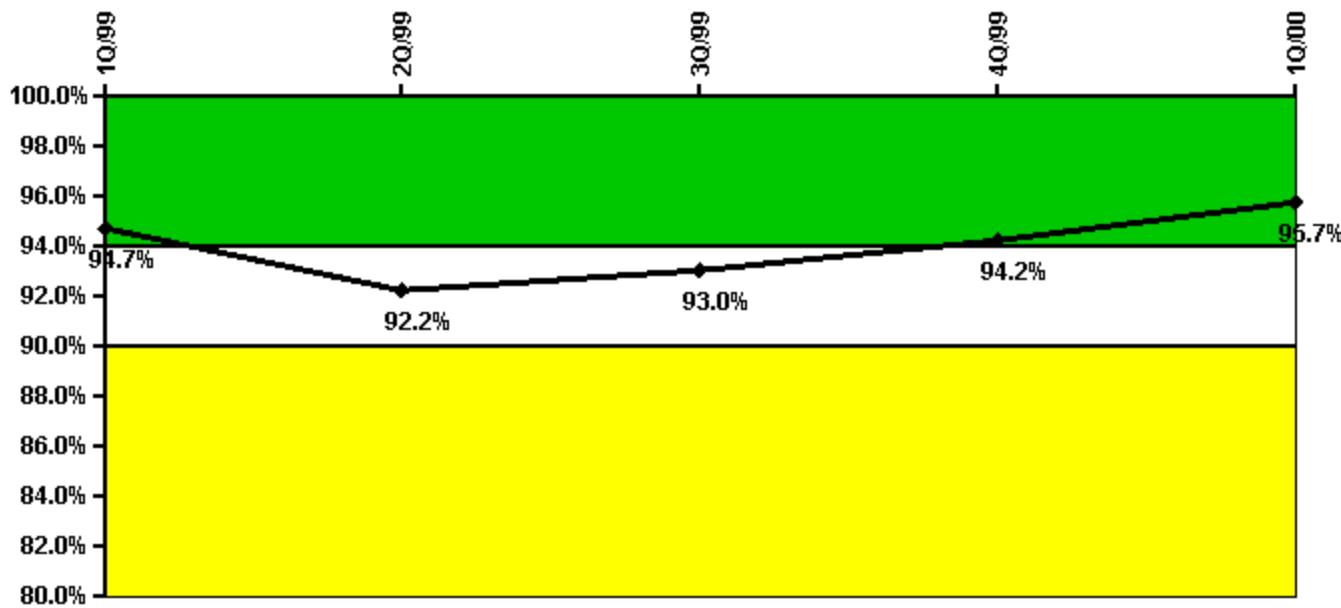
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Participating Key personnel	66.0	67.0	68.0	52.0	56.0
Total Key personnel	68.0	68.0	69.0	53.0	57.0
Indicator value	97.1%	98.5%	98.6%	98.1%	98.2%

Licensee Comments: none

Alert & Notification System



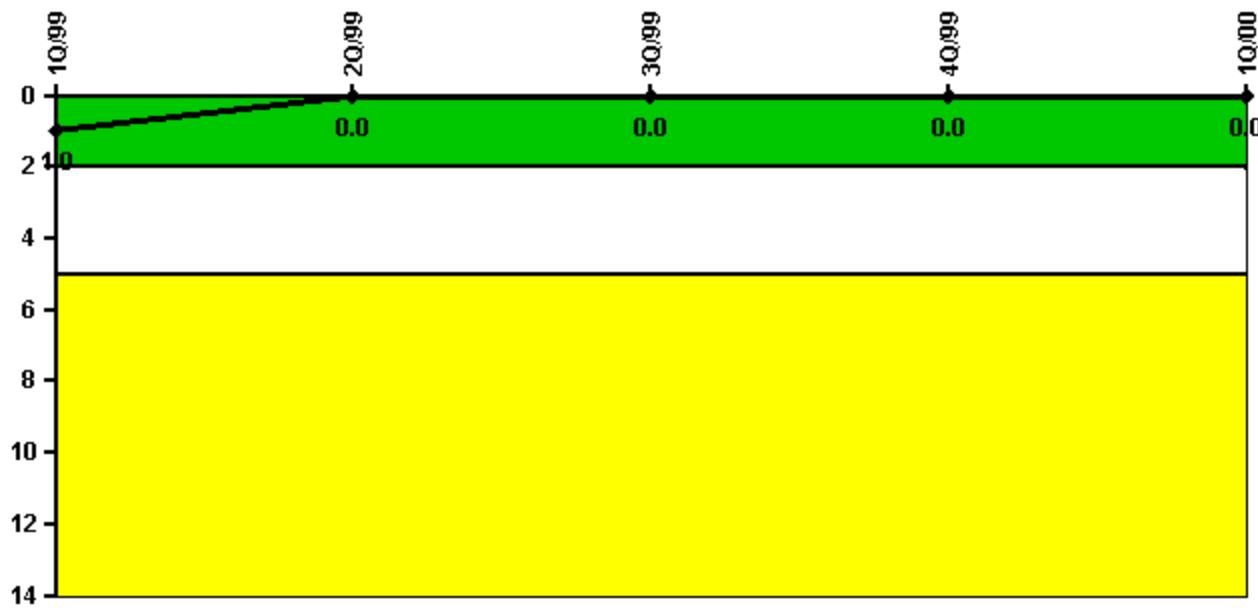
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful siren-tests	391	535	862	861	929
Total sirens-tests	432	598	896	885	950
Indicator value	94.7%	92.2%	93.0%	94.2%	95.7%

Licensee Comments:

4Q/99: Siren operability fell below the 94% GREEN threshold in the second quarter 1999 because of a county transmitter failure in April, 1999. The failed transmitter resulted in 89.5% success during the 2nd quarter 3 month period. Given the number of regular scheduled tests being performed at this time, overall system operability took two quarters to recover. On July 21, 2000, the Q4/1999 PI data was revised to reflect annual full cycle sound test data, which was mistakenly omitted from the previous data submittal. This change does not affect the "color" of the indicator.

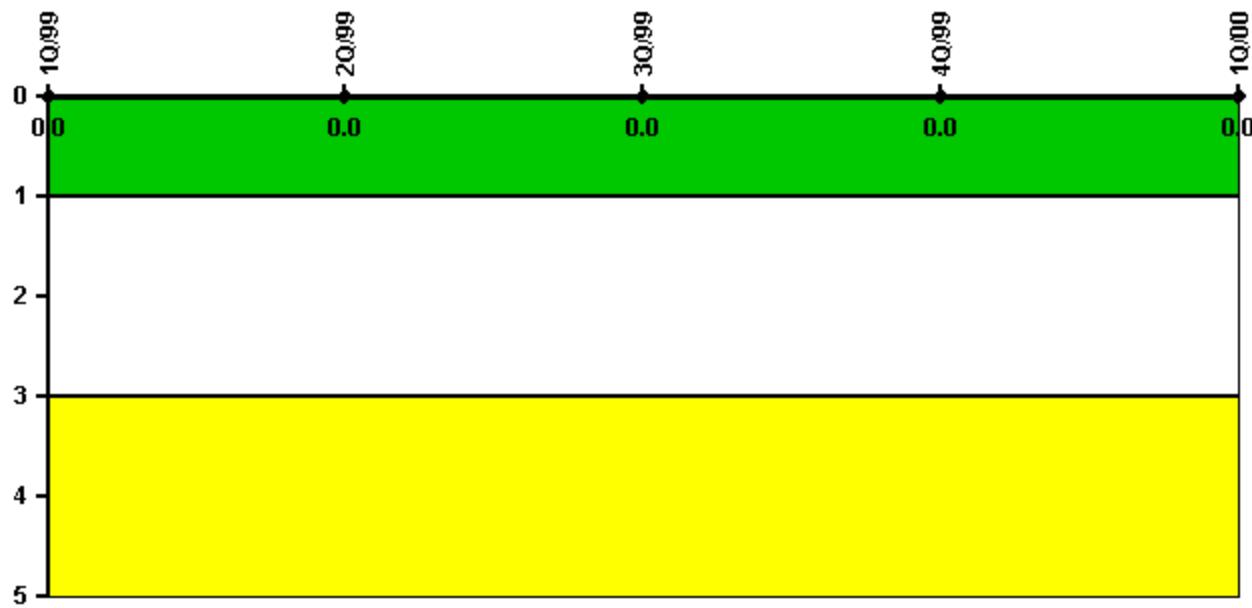
Occupational Exposure Control Effectiveness

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	1	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

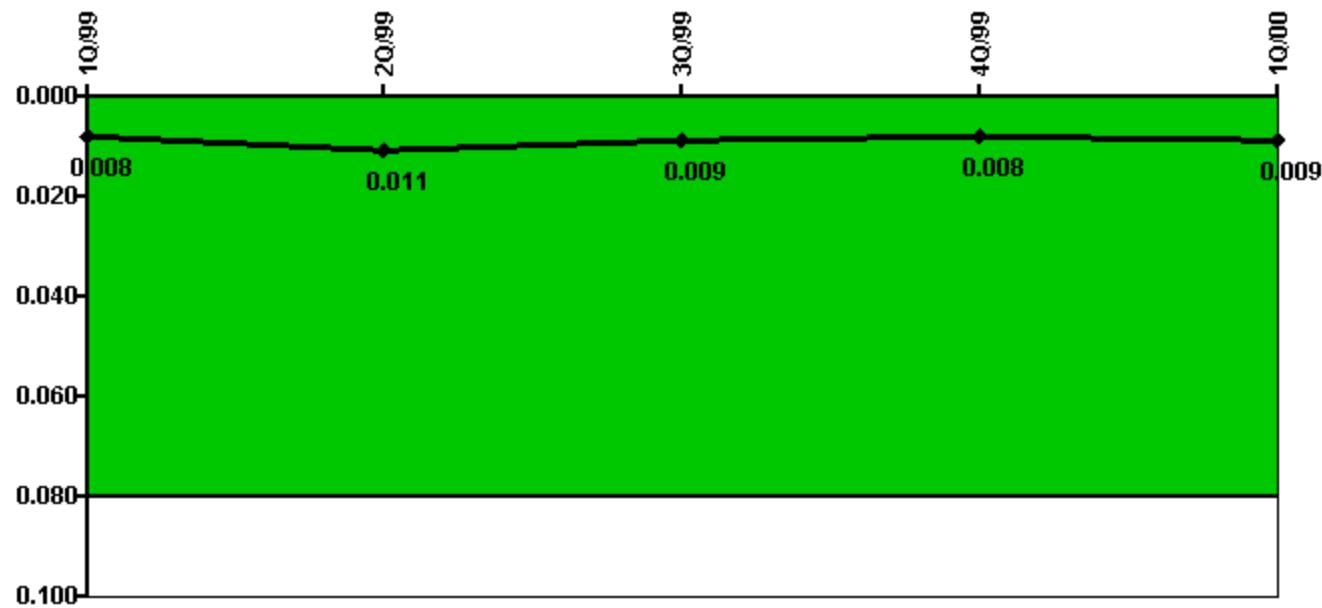
Thresholds: White > 1.0 Yellow > 3.0

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



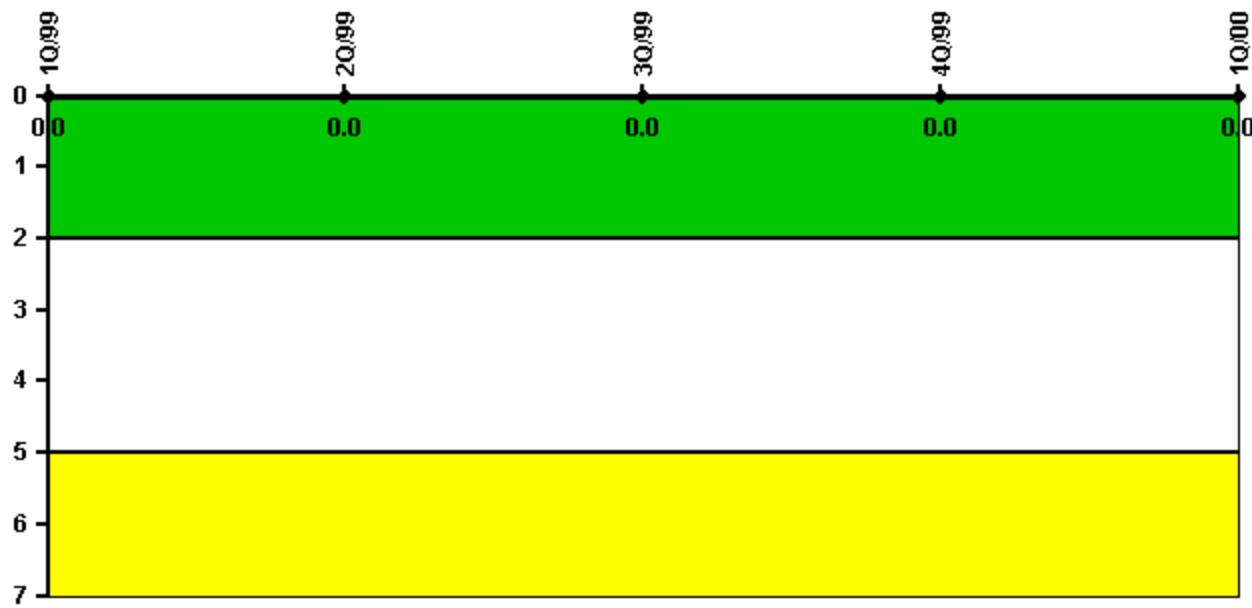
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
IDS compensatory hours	31.70	93.30	24.40	50.10	46.00
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2
Index Value	0.008	0.011	0.009	0.008	0.009

Licensee Comments: none

Personnel Screening Program

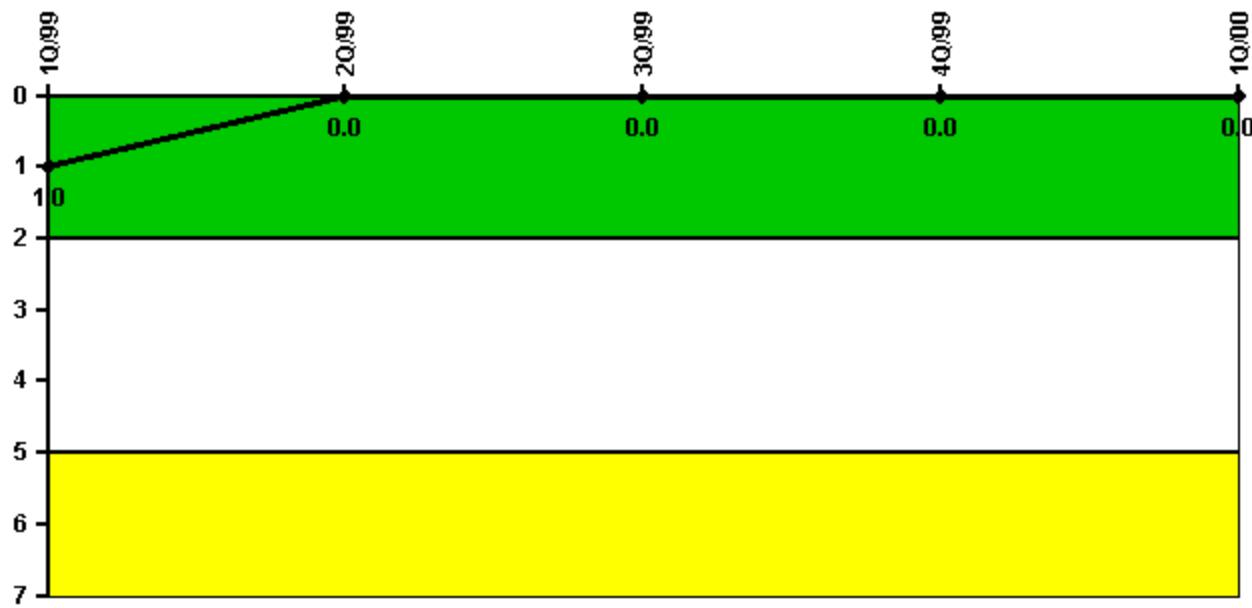


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

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	1	0	0	0	0

Licensee Comments: none

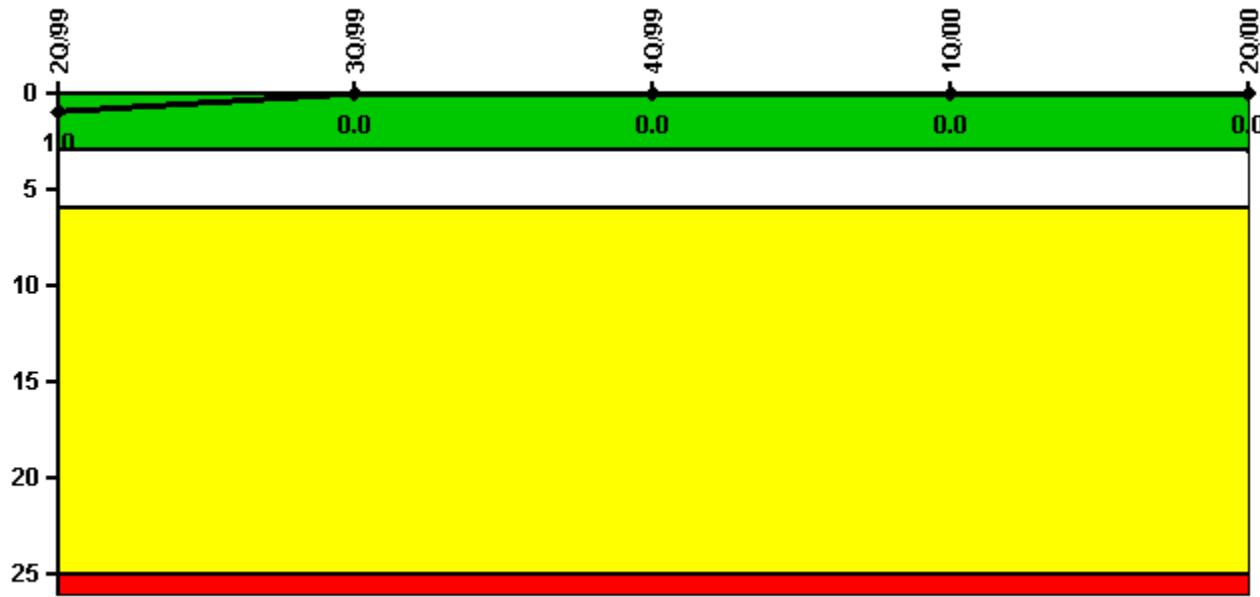


[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

Last Modified: April 1, 2002

Calvert Cliffs 2**2Q/2000 Performance Indicators**

Licensee's General Comments: none

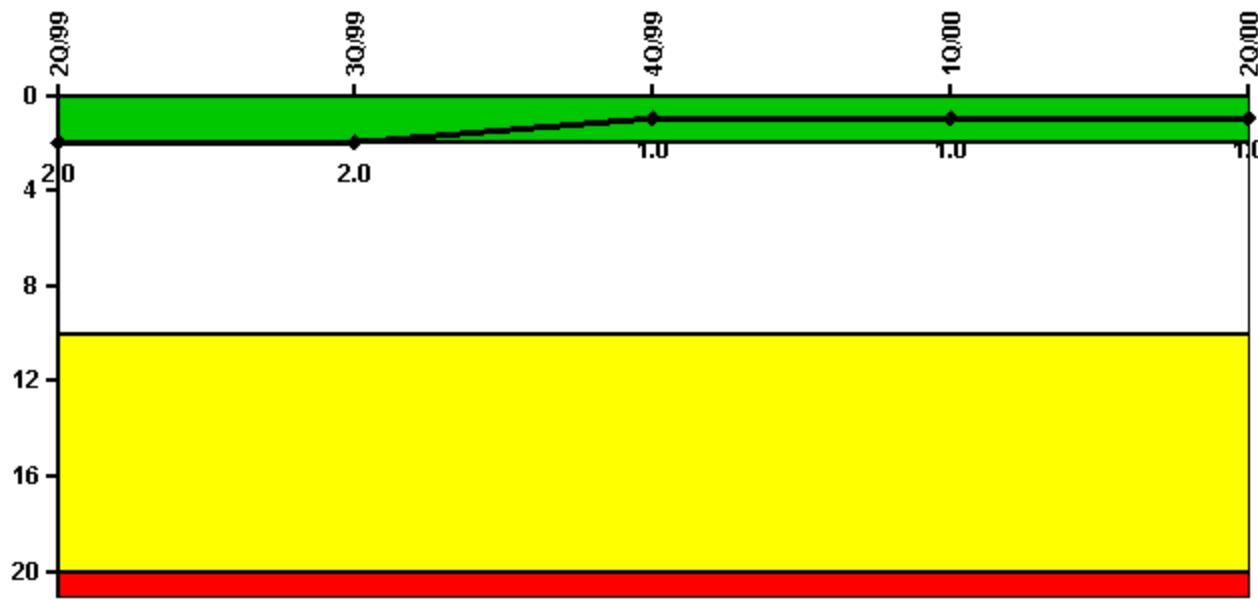
Unplanned Scrams per 7000 Critical Hrs

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	1331.2	2208.0	2209.0	2019.8	2183.0
Indicator value	1.0	0	0	0	0

Licensee Comments: none

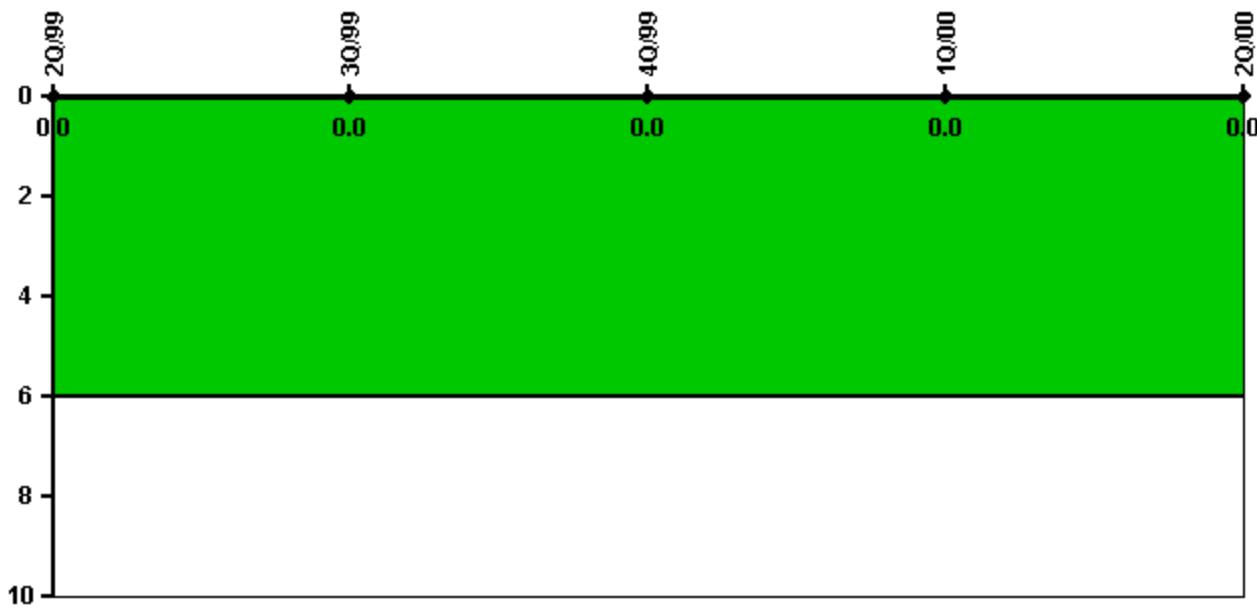
Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Scrams	0	0	0	0	0
Indicator value	2.0	2.0	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

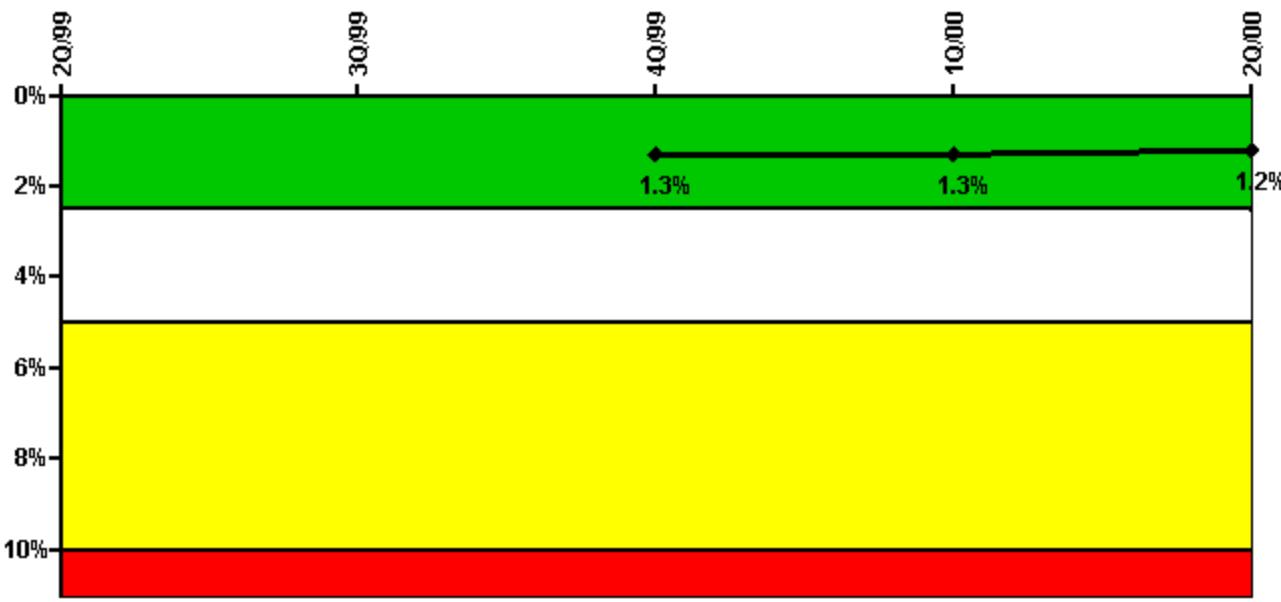
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned power changes	0	0	0	0	0
Critical hours	1331.2	2208.0	2209.0	2019.8	2183.0
Indicator value	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	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	2.33	0	2.15	31.00	0
Unplanned unavailable hours	0	2.75	10.83	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00
Train 2					
Planned unavailable hours	13.72	0	0.12	13.38	0
Unplanned unavailable hours	0	0	8.40	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00
Indicator value			1.3%	1.3%	1.2%

Licensee Comments:

2Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Emergency AC Power system has changed to reflect a small increase in unavailable hours incurred during emergency diesel generator (EDG) testing. Specifically, unavailable hours are now incurred when performing barring of the EDG whether it is done manually or through the use of air barring. The change does not affect the "color" of the indicator.

2Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

1Q/00: During a self-assessment, we identified unavailable hours that were not reported for the safety-related A or B train diesel generator being out-of-service. Previous reporting credited the station blackout OC diesel generator while the safety related diesel generator was out-of-

service for maintenance. After reviewing Frequently Asked Questions 167 and 218, we have concluded that use of the OC diesel generator can not be credited. In addition, previous reporting of unavailable hours did not utilize the exclusion of planned overhaul hours because we were crediting the OC diesel generator. This change report also includes the exclusion of planned overhaul hours in our diesel generator unavailability reporting. This change does not change the color of the performance indicator.

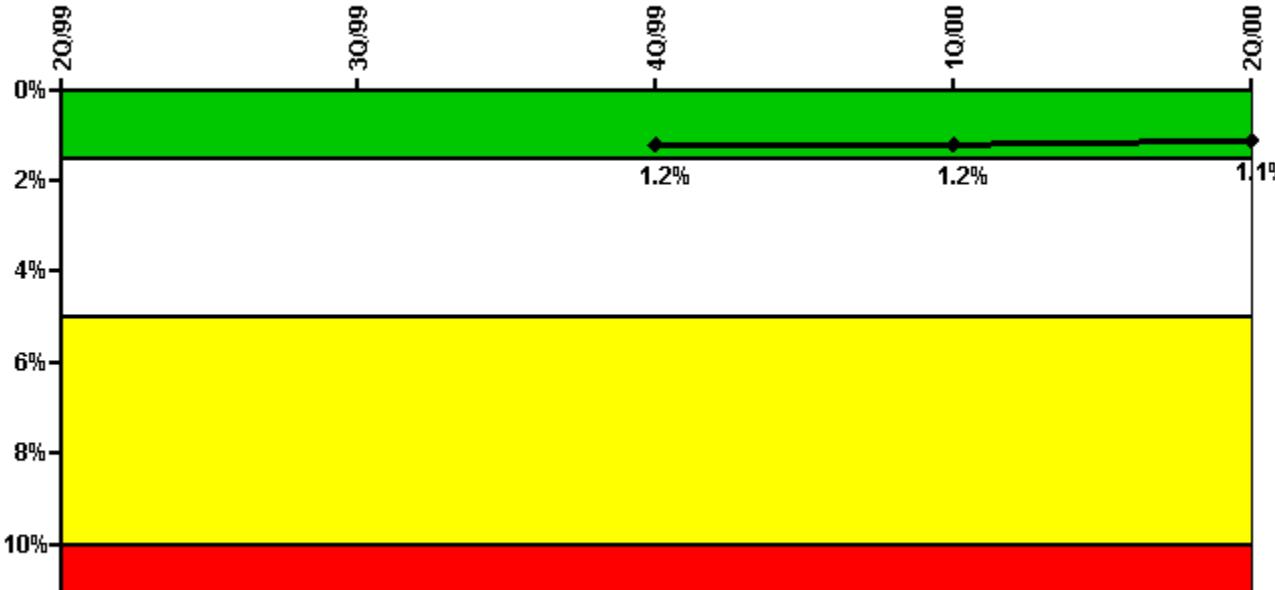
1Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

1Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Emergency AC Power system has changed to reflect a small increase in unavailable hours incurred during emergency diesel generator (EDG) testing. Specifically, unavailable hours are now incurred when performing barring of the EDG whether it is done manually or through the use of air barring. The change does not affect the "color" of the indicator.

4Q/99: During a self-assessment, we identified unavailable hours that were not reported for the safety-related A or B train diesel generator being out-of-service. Previous reporting credited the station blackout OC diesel generator while the safety related diesel generator was out-of-service for maintenance. After reviewing Frequently Asked Questions 167 and 218, we have concluded that use of the OC diesel generator can not be credited. In addition, previous reporting of unavailable hours did not utilize the exclusion of planned overhaul hours because we were crediting the OC diesel generator. This change report also includes the exclusion of planned overhaul hours in our diesel generator unavailability reporting. This change does not change the color of the performance indicator.

3Q/99: During a self-assessment, we identified unavailable hours that were not reported for the safety-related A or B train diesel generator being out-of-service. Previous reporting credited the station blackout OC diesel generator while the safety related diesel generator was out-of-service for maintenance. After reviewing Frequently Asked Questions 167 and 218, we have concluded that use of the OC diesel generator can not be credited. In addition, previous reporting of unavailable hours did not utilize the exclusion of planned overhaul hours because we were crediting the OC diesel generator. This change report also includes the exclusion of planned overhaul hours in our diesel generator unavailability reporting. This change does not change the color of the performance indicator.

Safety System Unavailability, High Pressure Injection System (HPSI)



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

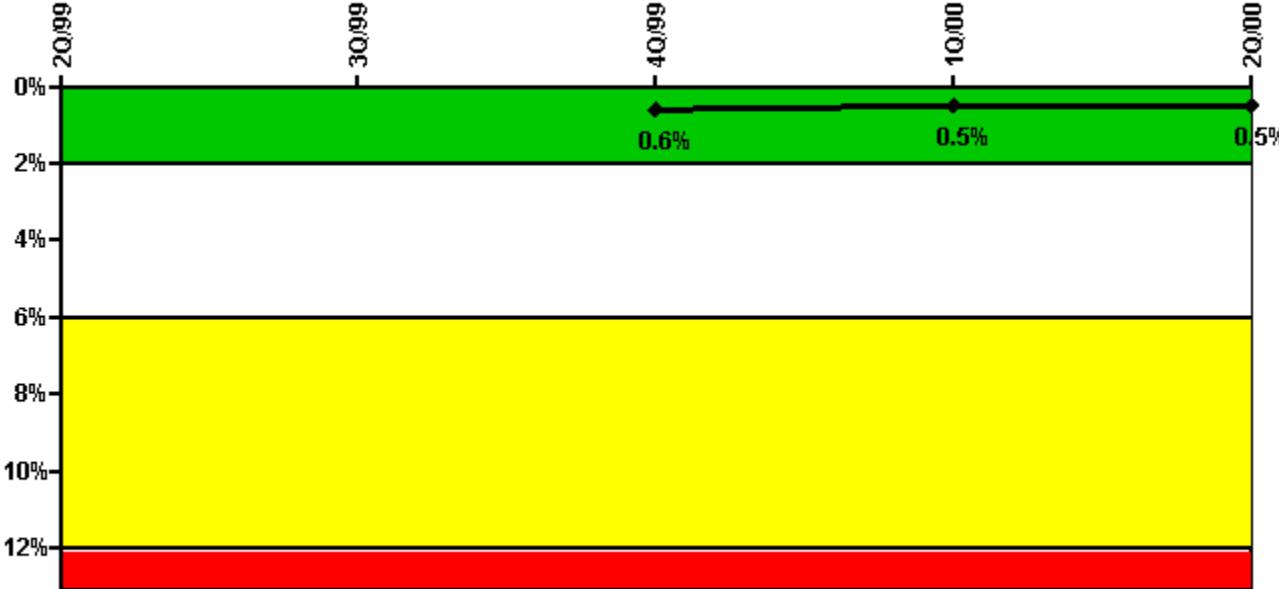
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	4.08	1.13	18.03	17.50	0.54
Unplanned unavailable hours	0	0	10.83	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1331.20	2208.00	2209.00	2019.80	2183.00
Train 2					
Planned unavailable hours	16.05	36.79	1.66	12.84	0.62
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	1331.20	2208.00	2209.00	2019.80	2183.00
Indicator value				1.2%	1.2%
					1.1%

Licensee Comments:

1Q/98: During implementation of a new process to uniquely designate and identify unavailability records for the NRC performance indicators, we discovered some small errors in the unavailability data reported for 1998. These changes do not impact the color of the performance indicator.

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	22.00	9.25	1.00	1.00

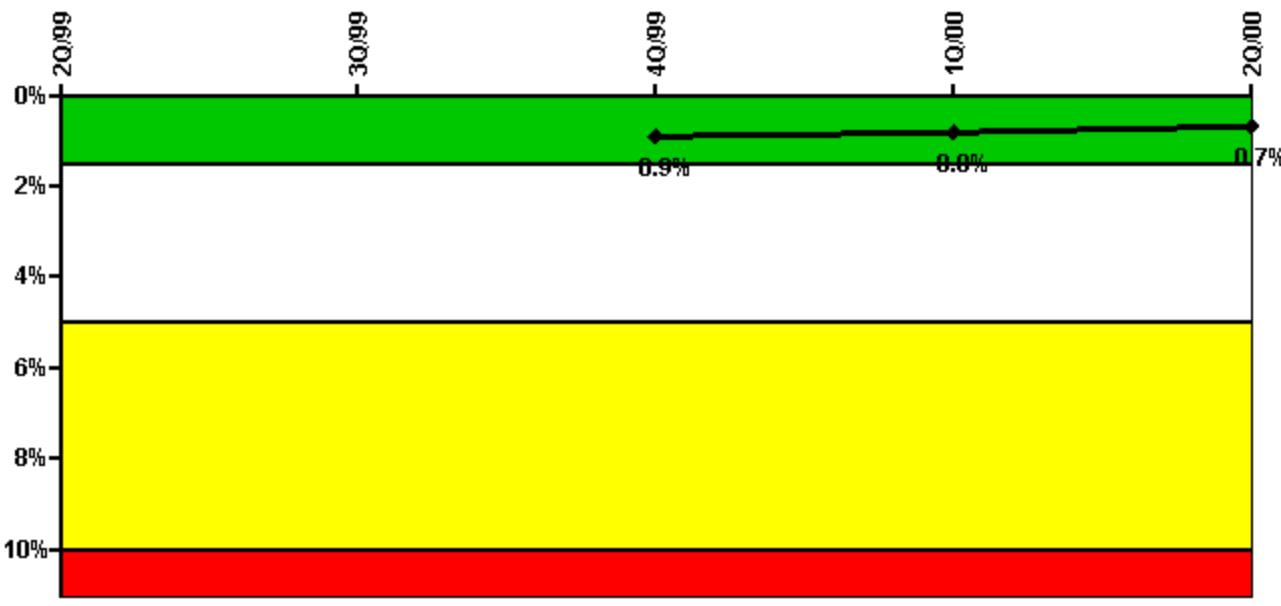
Unplanned unavailable hours	0	0	0	5.12	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1331.20	2208.00	2209.00	2019.80	2183.00
Train 2					
Planned unavailable hours	0	22.42	9.25	1.00	1.00
Unplanned unavailable hours	0	4.00	0	5.12	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1331.20	2208.00	2209.00	2019.80	2183.00
Train 3					
Planned unavailable hours	1.72	5.25	11.00	0	1.50
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	1331.20	2208.00	2209.00	2019.80	2183.00
Indicator value			0.6%	0.5%	0.5%

Licensee Comments:

2Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Auxiliary Feedwater (AFW) system has changed to reflect a small increase in unavailable hours incurred during AFW testing. Specifically, unavailable hours are now incurred when the AFW steam driven pumps are tripped until the steam valves are reset. The change does not affect the "color" of the indicator.

1Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Auxiliary Feedwater (AFW) system has changed to reflect a small increase in unavailable hours incurred during AFW testing. Specifically, unavailable hours are now incurred when the AFW steam driven pumps are tripped until the steam valves are reset. The change does not affect the "color" of the indicator.

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		804.00	0	0	109.90	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		804.00	0	0	109.90	0
Train 3						
Planned unavailable hours		5.79	61.58	26.93	18.60	1.88
Unplanned unavailable hours		0	0	10.83	0	0
Fault exposure hours		0	0	0	0	0
Effective Reset hours		0	0	0	0	0
Required hours		1379.00	2208.00	2209.00	2074.10	2183.00
Train 4						
Planned unavailable hours		28.17	36.98	1.43	15.10	1.36
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		1379.00	2208.00	2209.00	2074.10	2183.00
Indicator value				0.9%	0.8%	0.7%

Licensee Comments:

2Q/00: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

1Q/00: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

1Q/00: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

4Q/99: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

4Q/99: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

3Q/99: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

3Q/99: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

2Q/99: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

2Q/99: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

1Q/99: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

1Q/99: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

4Q/98: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

4Q/98: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

3Q/98: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

3Q/98: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

2Q/98: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

2Q/98: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

1Q/98: During implementation of a new process to uniquely designate and identify unavailability records for the NRC performance indicators, we discovered some small errors in the planned unavailability data reported for 1998. These changes do not change the color of the performance indicator.

1Q/98: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

1Q/98: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

4Q/97: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

4Q/97: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

3Q/97: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

3Q/97: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

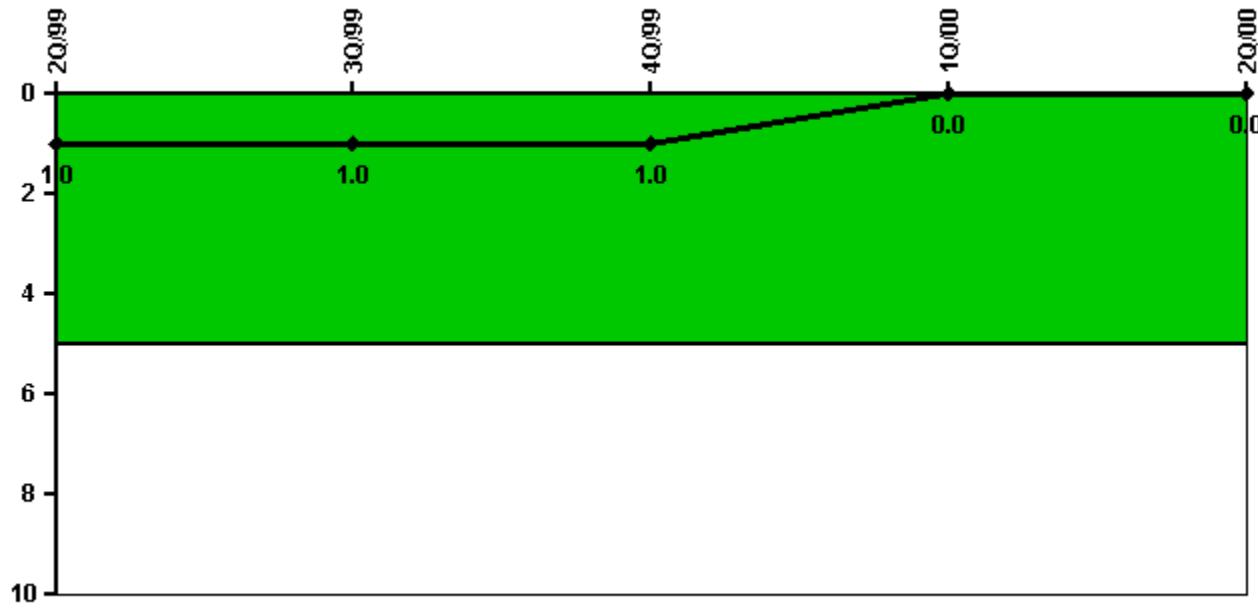
2Q/97: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

2Q/97: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

1Q/97: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

1Q/97: The data has been recalculated and revised using the guidance in Frequently Asked Question No. 172.

Safety System Functional Failures (PWR)

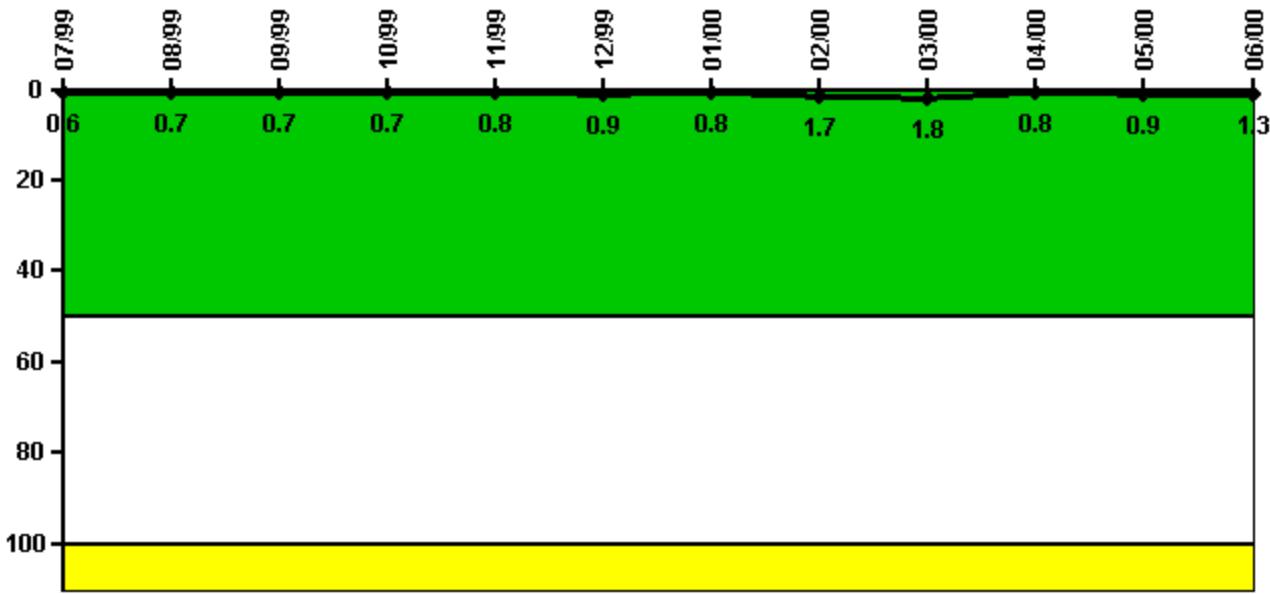


Thresholds: White > 5.0

Notes

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

Licensee Comments: none

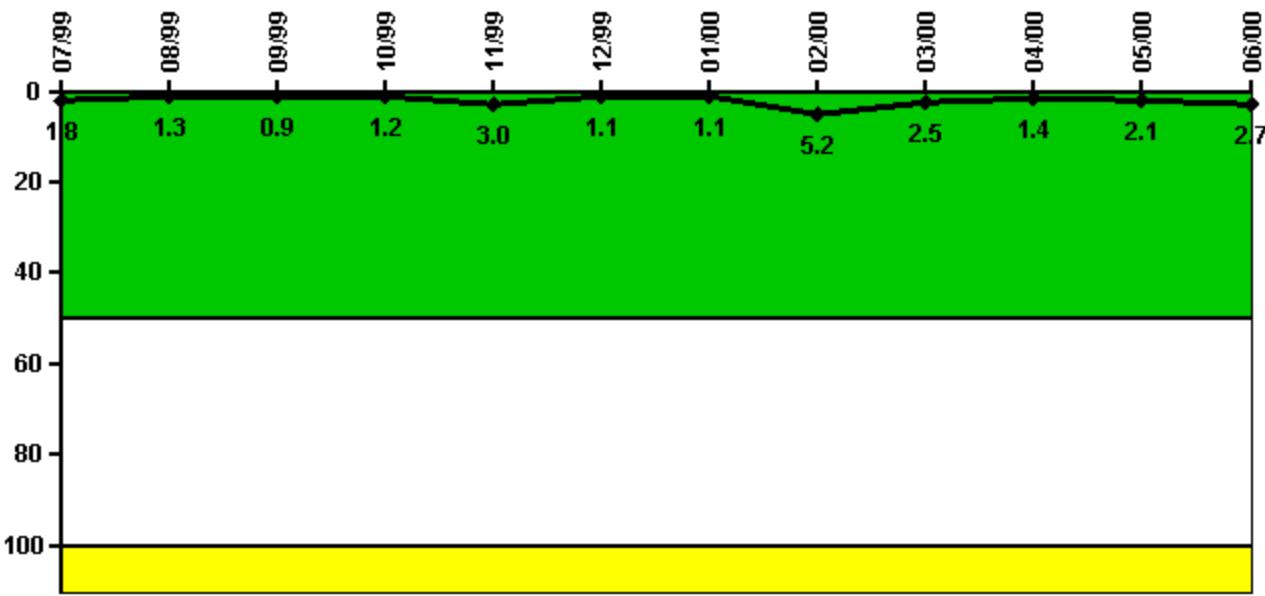
Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum activity	0.006330	0.006750	0.007350	0.006880	0.007570	0.008840	0.008020	0.017200	0.018400	0.008250	0.008750	0.012700
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	0.6	0.7	0.7	0.7	0.8	0.9	0.8	1.7	1.8	0.8	0.9	1.3

Licensee Comments: none

Reactor Coolant System Leakage

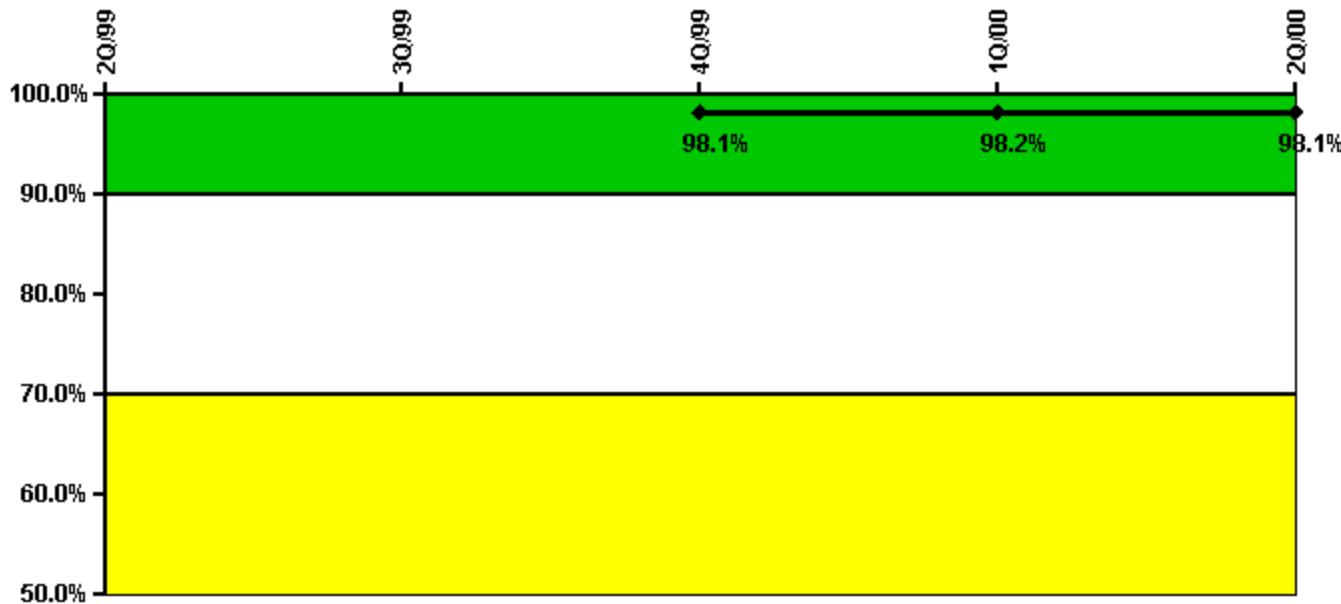
Thresholds: White > 50.0 Yellow > 100.0

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	0.180	0.130	0.090	0.120	0.305	0.110	0.114	0.521	0.254	0.142	0.207	0.267
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	1.8	1.3	0.9	1.2	3.0	1.1	1.1	5.2	2.5	1.4	2.1	2.7

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	29.0	34.0	57.0	10.0	19.0
Total opportunities	29.0	34.0	59.0	10.0	19.0
Indicator value			98.1%	98.2%	98.1%

Licensee Comments:

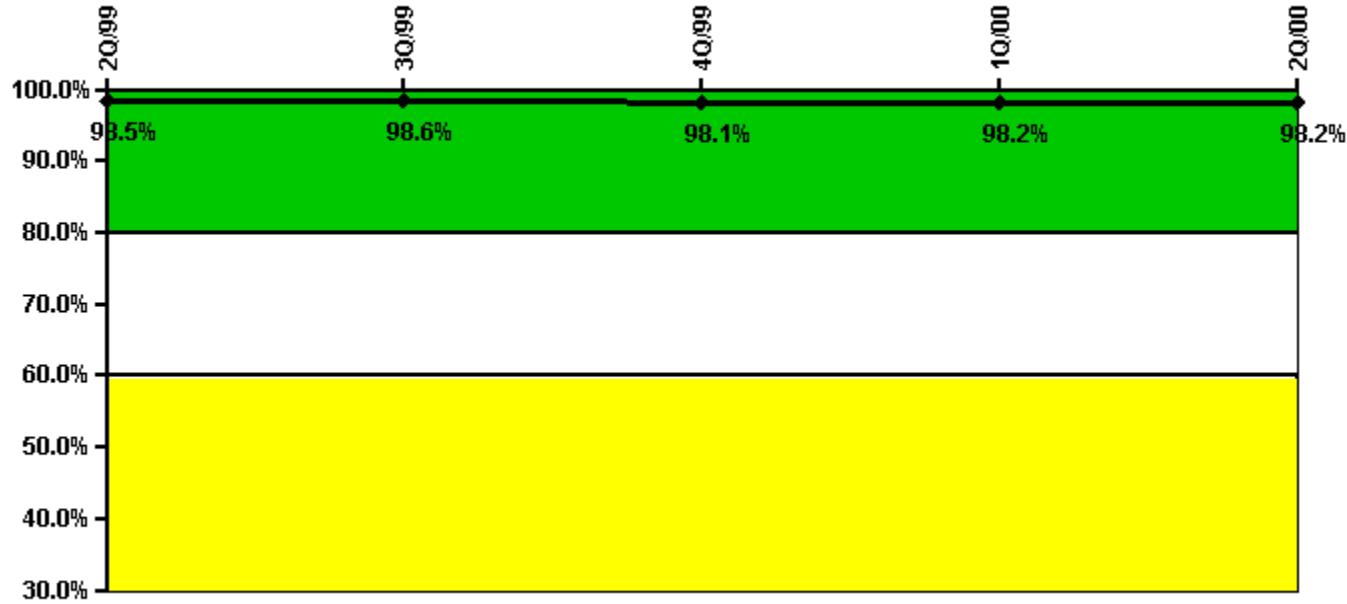
2Q/00: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised from 26 to 19. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

1Q/00: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised from 16 to 10. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

4Q/99: Previously submitted data for the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

3Q/99: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised from 50 to 34. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

ERO Drill Participation



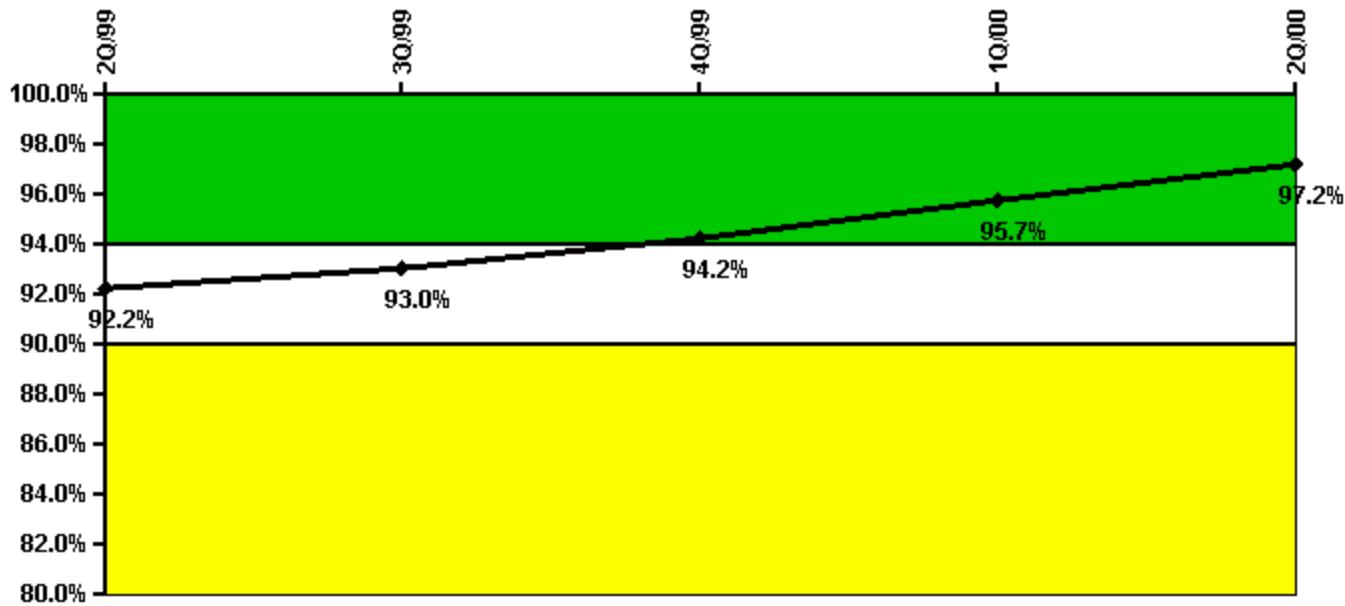
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Participating Key personnel	67.0	68.0	52.0	56.0	56.0
Total Key personnel	68.0	69.0	53.0	57.0	57.0
Indicator value	98.5%	98.6%	98.1%	98.2%	98.2%

Licensee Comments: none

Alert & Notification System



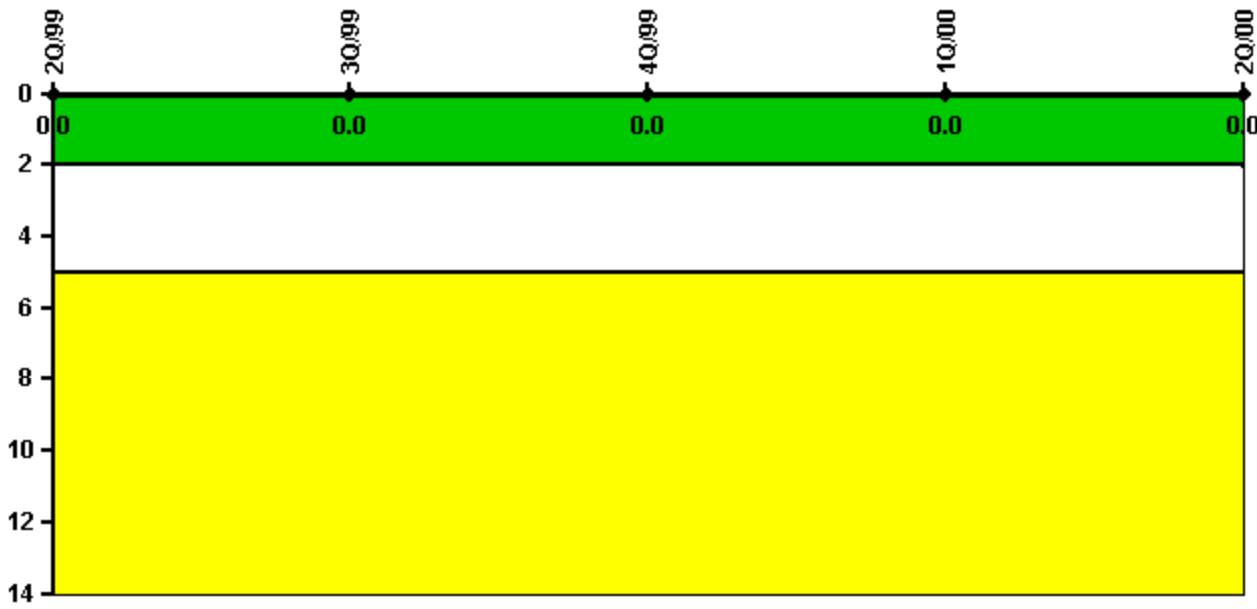
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful siren-tests	535	862	861	929	929
Total sirens-tests	598	896	885	950	955
Indicator value	92.2%	93.0%	94.2%	95.7%	97.2%

Licensee Comments:

4Q/99: Siren operability fell below the 94% GREEN threshold in the second quarter 1999 because of a county transmitter failure in April, 1999. The failed transmitter resulted in 89.5% success during the 2nd quarter 3 month period. Given the number of regular scheduled tests being performed at this time, overall system operability took two quarters to recover. On July 21, 2000, the Q4/1999 PI data was revised to reflect annual full cycle sound test data, which was mistakenly omitted from the previous data submittal. This change does not affect the "color" of the indicator.

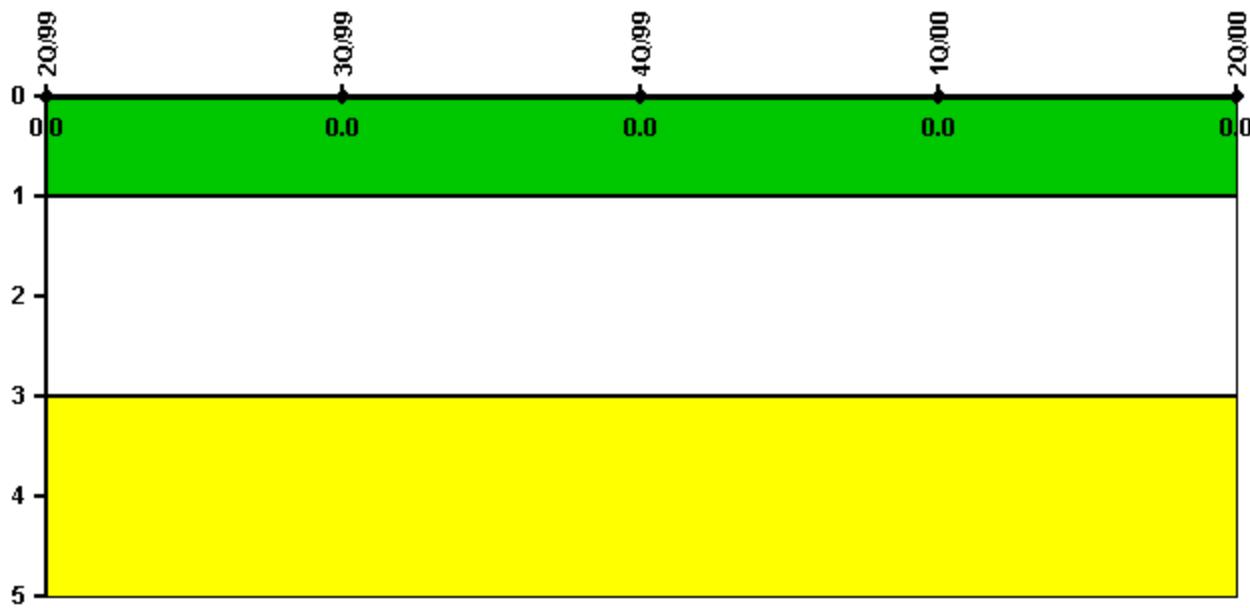
Occupational Exposure Control Effectiveness

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

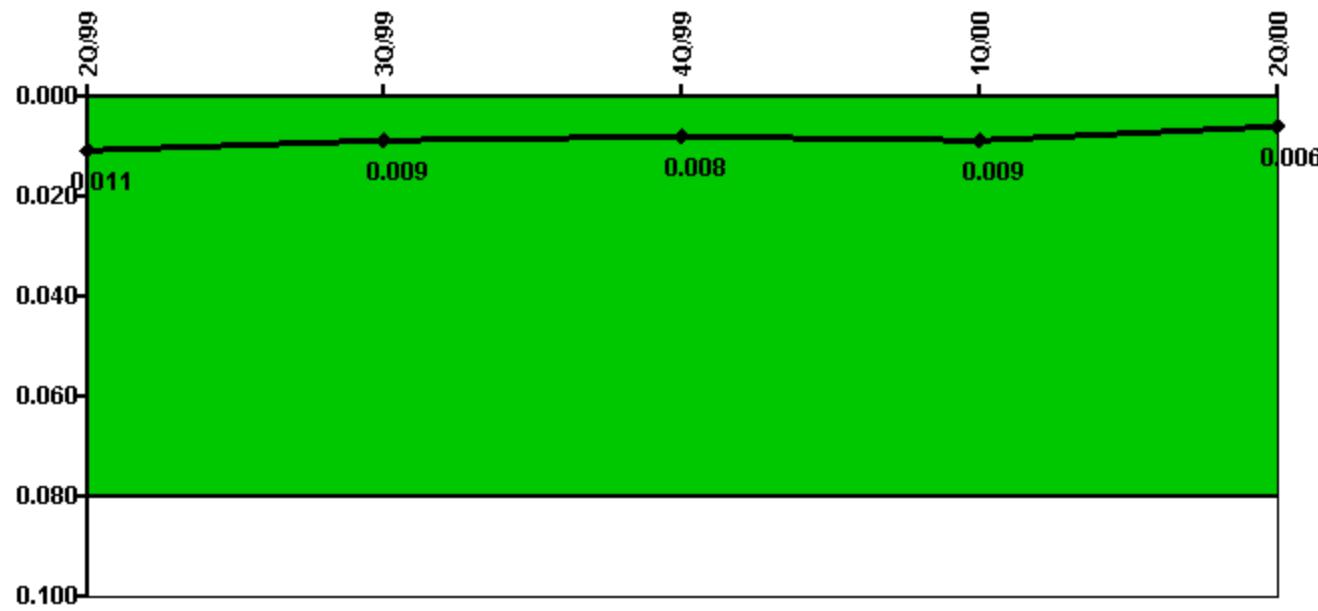
Thresholds: White > 1.0 Yellow > 3.0

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



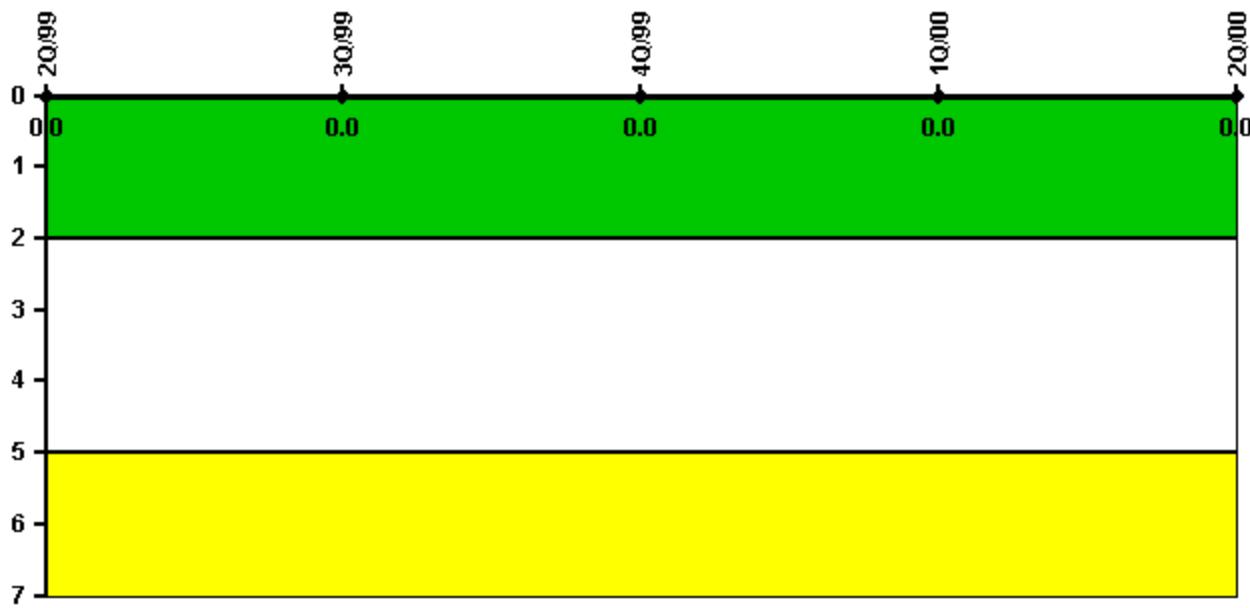
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
IDS compensatory hours	93.30	24.40	50.10	46.00	38.60
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2
Index Value	0.011	0.009	0.008	0.009	0.006

Licensee Comments: none

Personnel Screening Program

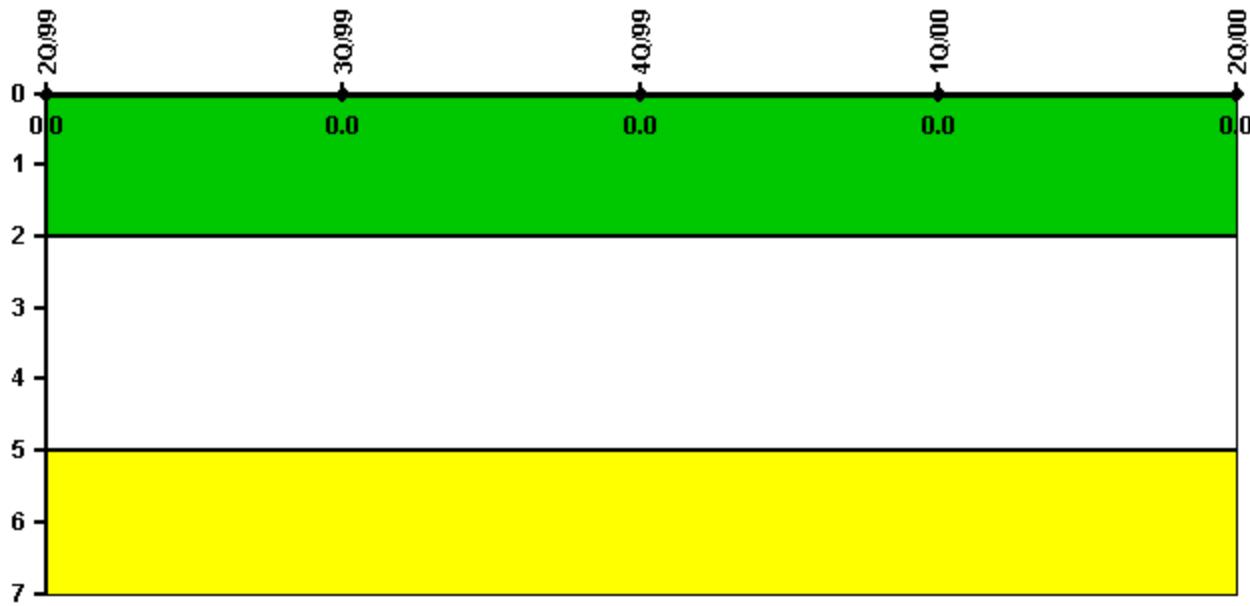


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

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

Calvert Cliffs 2**3Q/2000 Performance Indicators**

Licensee's General Comments: A "mid-quarter" change report has been submitted. The change report does not change the color of any performance indicator. These changes were identified just prior to the due date for submitting the third quarter 2000 performance indicator quarterly report and reviews could not be completed in time for the changes to be submitted along with the third quarter report. The necessary reviews of the change report are now complete and the change report is now submitted.

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	2208.0	2209.0	2019.8	2183.0	2208.0
Indicator value	0	0	0	0	0

Licensee Comments: none

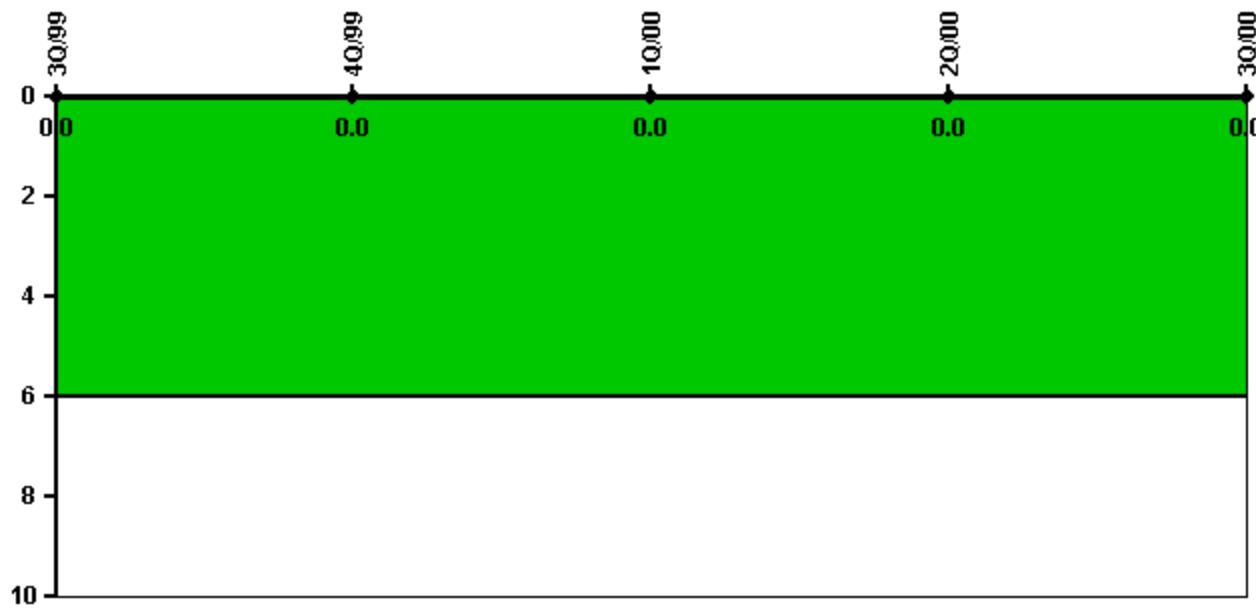
Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Scrams	0	0	0	0	0
Indicator value	2.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

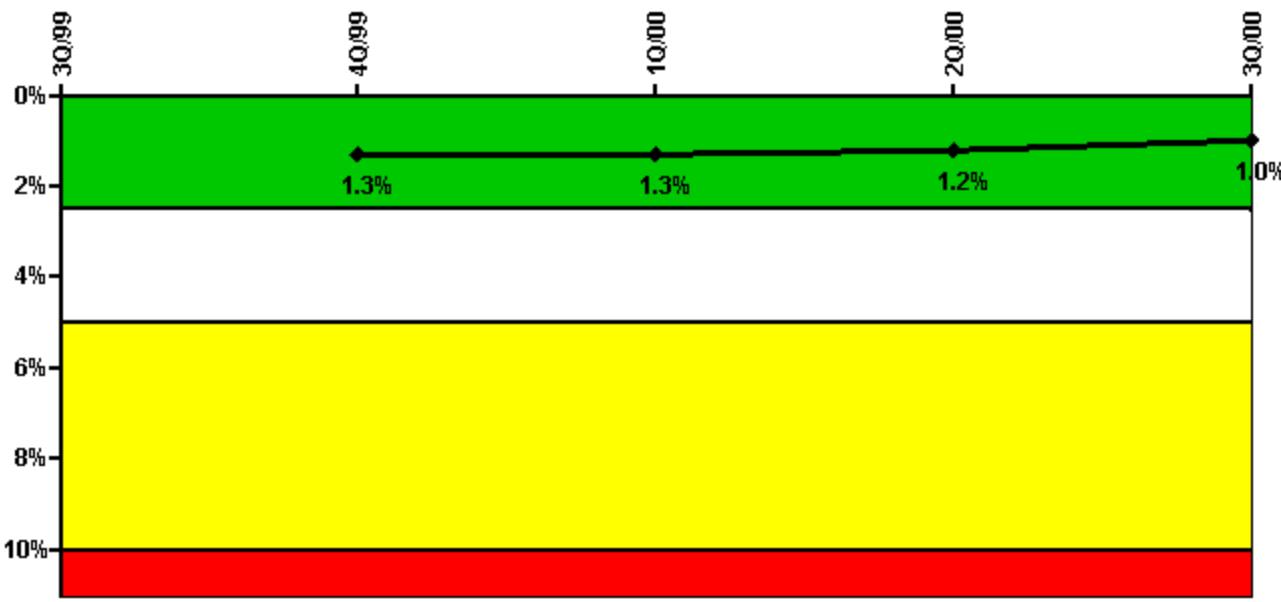
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned power changes	0	0	0	0	0
Critical hours	2208.0	2209.0	2019.8	2183.0	2208.0
Indicator value	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	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	0	2.15	31.00	0	0
Unplanned unavailable hours	2.75	10.83	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2					
Planned unavailable hours	0	0.12	13.38	0	0
Unplanned unavailable hours	0	8.40	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value		1.3%	1.3%	1.2%	1.0%

Licensee Comments:

3Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

3Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Emergency AC Power system has changed to reflect a small increase in unavailable hours incurred during emergency diesel generator (EDG) testing. Specifically, unavailable hours are now incurred when performing barring of the EDG whether it is done manually or through the use of air barring. The change does not affect the "color" of the indicator.

2Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air

barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

2Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Emergency AC Power system has changed to reflect a small increase in unavailable hours incurred during emergency diesel generator (EDG) testing. Specifically, unavailable hours are now incurred when performing barring of the EDG whether it is done manually or through the use of air barring. The change does not affect the "color" of the indicator.

1Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Emergency AC Power system has changed to reflect a small increase in unavailable hours incurred during emergency diesel generator (EDG) testing. Specifically, unavailable hours are now incurred when performing barring of the EDG whether it is done manually or through the use of air barring. The change does not affect the "color" of the indicator.

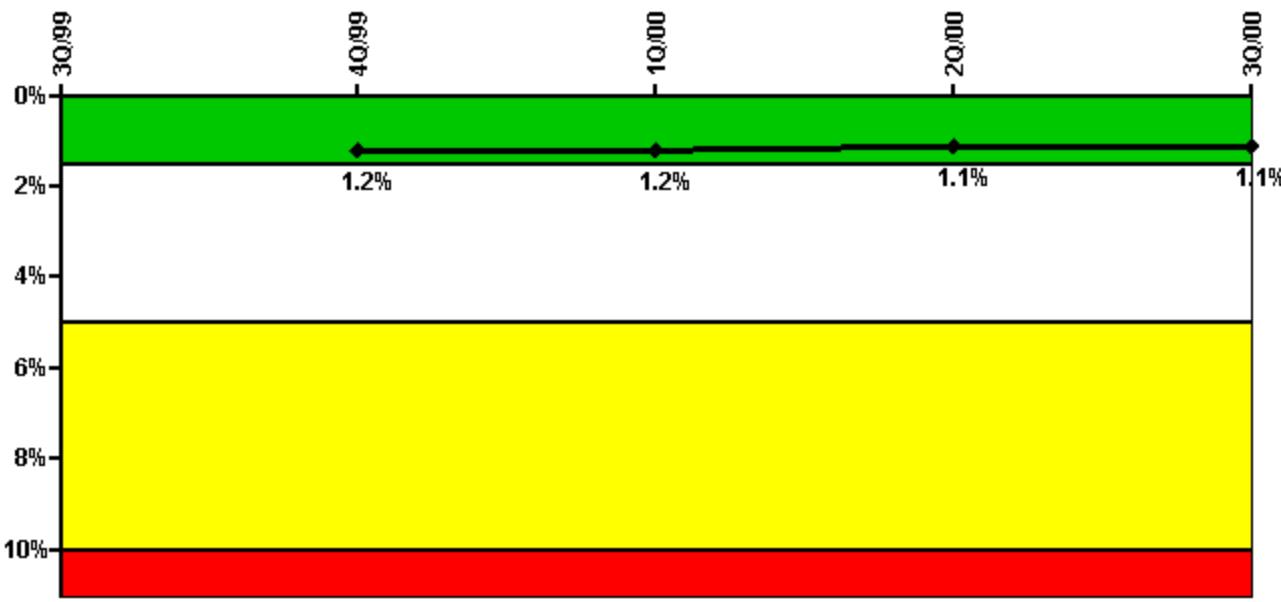
1Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

1Q/00: During a self-assessment, we identified unavailable hours that were not reported for the safety-related A or B train diesel generator being out-of-service. Previous reporting credited the station blackout OC diesel generator while the safety related diesel generator was out-of-service for maintenance. After reviewing Frequently Asked Questions 167 and 218, we have concluded that use of the OC diesel generator can not be credited. In addition, previous reporting of unavailable hours did not utilize the exclusion of planned overhaul hours because we were crediting the OC diesel generator. This change report also includes the exclusion of planned overhaul hours in our diesel generator unavailability reporting. This change does not change the color of the performance indicator.

4Q/99: During a self-assessment, we identified unavailable hours that were not reported for the safety-related A or B train diesel generator being out-of-service. Previous reporting credited the station blackout OC diesel generator while the safety related diesel generator was out-of-service for maintenance. After reviewing Frequently Asked Questions 167 and 218, we have concluded that use of the OC diesel generator can not be credited. In addition, previous reporting of unavailable hours did not utilize the exclusion of planned overhaul hours because we were crediting the OC diesel generator. This change report also includes the exclusion of planned overhaul hours in our diesel generator unavailability reporting. This change does not change the color of the performance indicator.

3Q/99: During a self-assessment, we identified unavailable hours that were not reported for the safety-related A or B train diesel generator being out-of-service. Previous reporting credited the station blackout OC diesel generator while the safety related diesel generator was out-of-service for maintenance. After reviewing Frequently Asked Questions 167 and 218, we have concluded that use of the OC diesel generator can not be credited. In addition, previous reporting of unavailable hours did not utilize the exclusion of planned overhaul hours because we were crediting the OC diesel generator. This change report also includes the exclusion of planned overhaul hours in our diesel generator unavailability reporting. This change does not change the color of the performance indicator.

Safety System Unavailability, High Pressure Injection System (HPSI)



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

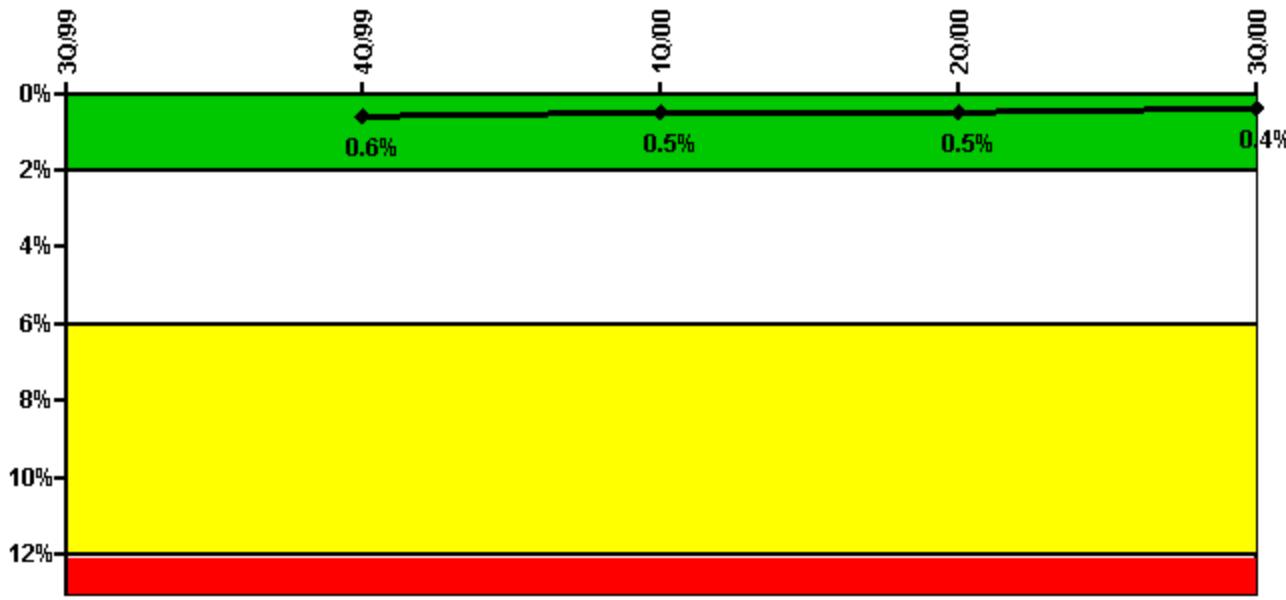
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	1.13	18.03	17.50	0.54	1.35
Unplanned unavailable hours	0	10.83	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2019.80	2183.00	2208.00
Train 2					
Planned unavailable hours	36.79	1.66	12.84	0.62	26.17
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	2208.00	2209.00	2019.80	2183.00	2208.00
Indicator value		1.2%	1.2%	1.1%	1.1%

Licensee Comments:

1Q/98: During implementation of a new process to uniquely designate and identify unavailability records for the NRC performance indicators, we discovered some small errors in the unavailability data reported for 1998. These changes do not impact the color of the performance indicator.

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	22.00	9.25	1.00	1.00	1.00
Unplanned unavailable hours	0	0	5.12	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2019.80	2183.00	2208.00
Train 2					
Planned unavailable hours	22.42	9.25	1.00	1.00	1.00
Unplanned unavailable hours	4.00	0	5.12	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2019.80	2183.00	2208.00
Train 3					
Planned unavailable hours	5.25	11.00	0	1.50	5.23
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	2208.00	2209.00	2019.80	2183.00	2208.00
Indicator value		0.6%	0.5%	0.5%	0.4%

Licensee Comments:

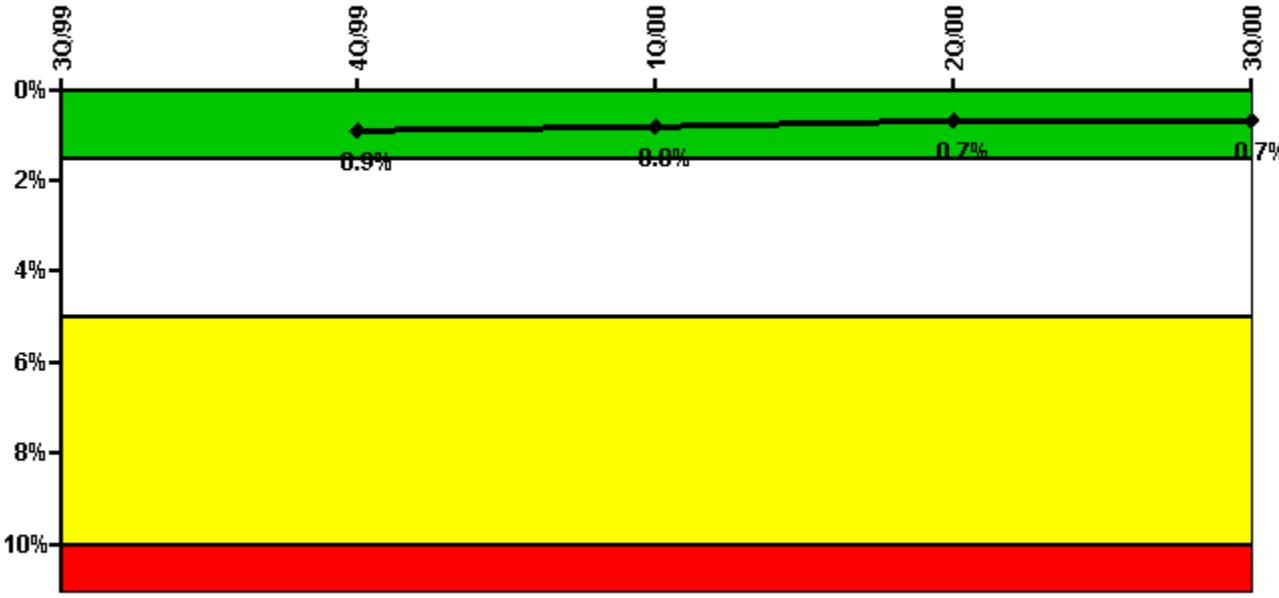
3Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Auxiliary Feedwater (AFW) system has changed to reflect a small increase in unavailable hours incurred during AFW testing. Specifically, unavailable hours are now incurred when the AFW steam driven pumps are tripped until the steam valves are reset. The change does not affect the "color" of the indicator.

2Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains

1 and 2 of the Auxiliary Feedwater (AFW) system has changed to reflect a small increase in unavailable hours incurred during AFW testing. Specifically, unavailable hours are now incurred when the AFW steam driven pumps are tripped until the steam valves are reset. The change does not affect the "color" of the indicator.

1Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Auxiliary Feedwater (AFW) system has changed to reflect a small increase in unavailable hours incurred during AFW testing. Specifically, unavailable hours are now incurred when the AFW steam driven pumps are tripped until the steam valves are reset. The change does not affect the "color" of the indicator.

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	109.90	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	109.90	0	0
Train 3						
Planned unavailable hours		61.58	26.93	18.60	1.88	1.42
Unplanned unavailable hours		0	10.83	0	0	0

Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2074.10	2183.00	2208.00
Train 4					
Planned unavailable hours	36.98	1.43	15.10	1.36	26.41
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	2208.00	2209.00	2074.10	2183.00	2208.00
Indicator value					
		0.9%	0.8%	0.7%	0.7%

Licensee Comments:

2Q/00: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

1Q/00: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

4Q/99: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

3Q/99: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

2Q/99: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

1Q/99: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

4Q/98: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

3Q/98: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

2Q/98: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

1Q/98: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

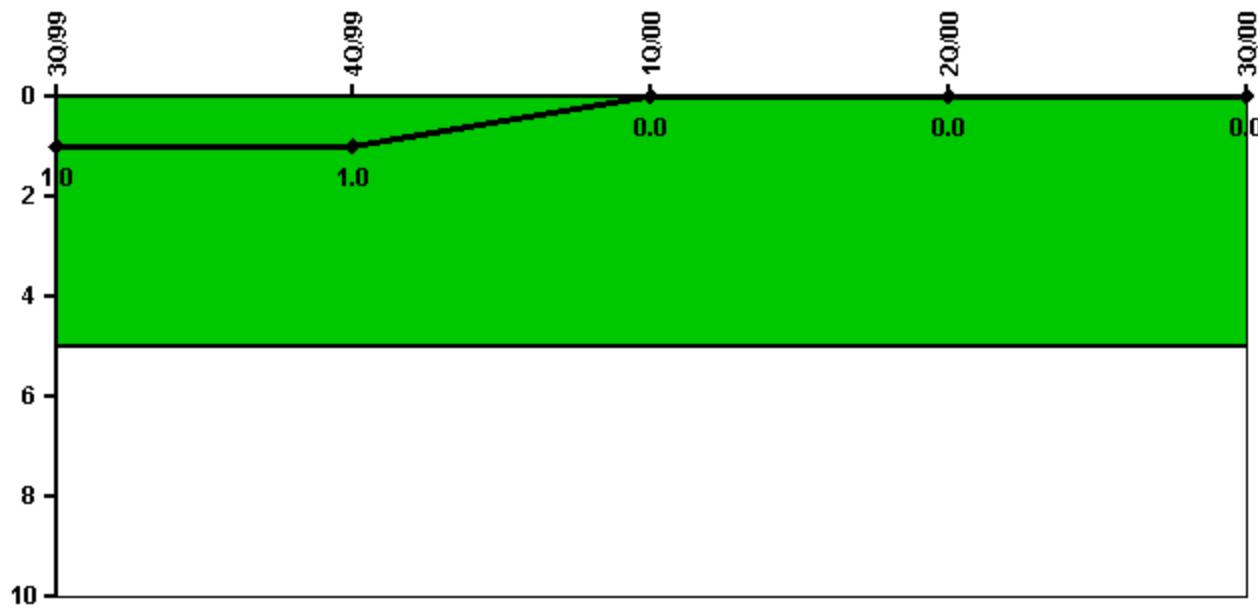
1Q/98: During implementation of a new process to uniquely designate and identify unavailability records for the NRC performance indicators, we discovered some small errors in the planned unavailability data reported for 1998. These changes do not change the color of the performance indicator.

4Q/97: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

3Q/97: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

2Q/97: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

1Q/97: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

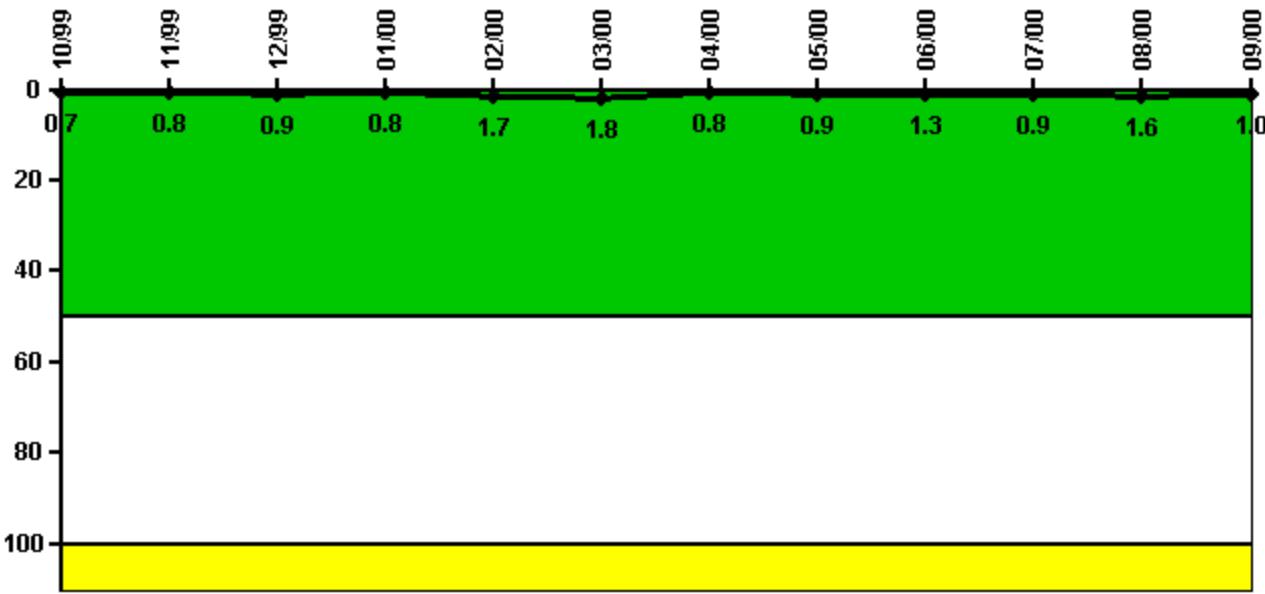
Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

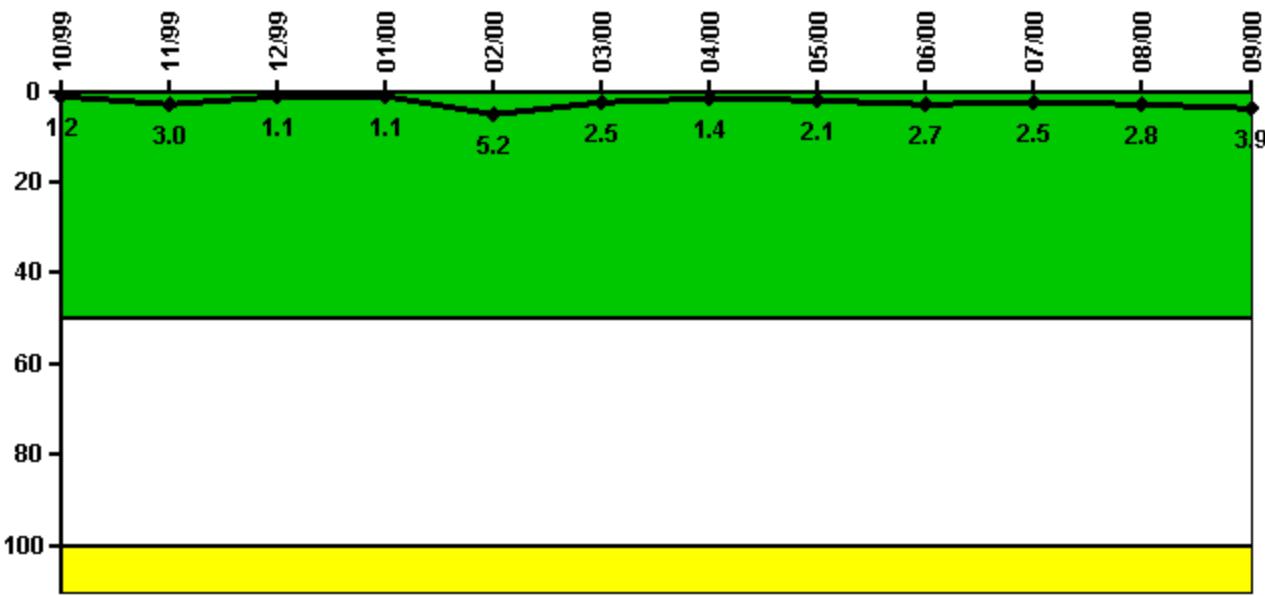
Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.006880	0.007570	0.008840	0.008020	0.017200	0.018400	0.008250	0.008750	0.012700	0.008910	0.016400	0.009940
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	0.7	0.8	0.9	0.8	1.7	1.8	0.8	0.9	1.3	0.9	1.6	1.0

Licensee Comments: none

Reactor Coolant System Leakage

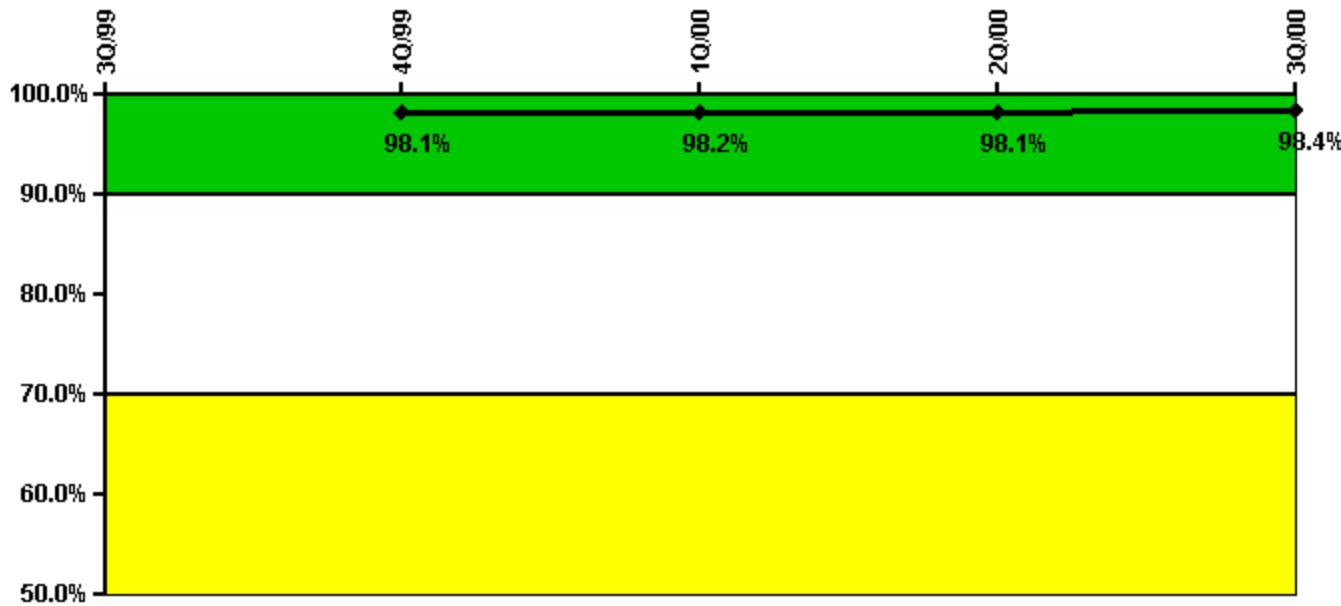
Thresholds: White > 50.0 Yellow > 100.0

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	0.120	0.305	0.110	0.114	0.521	0.254	0.142	0.207	0.267	0.254	0.277	0.393
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	1.2	3.0	1.1	1.1	5.2	2.5	1.4	2.1	2.7	2.5	2.8	3.9

Licensee Comments: none

Drill/Exercise Performance



Notes

Drill/Exercise Performance	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful opportunities	34.0	57.0	10.0	19.0	32.0
Total opportunities	34.0	59.0	10.0	19.0	33.0
Indicator value		98.1%	98.2%	98.1%	98.4%

Licensee Comments:

3Q/00: Previously submitted data for the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

2Q/00: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised from 26 to 19. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

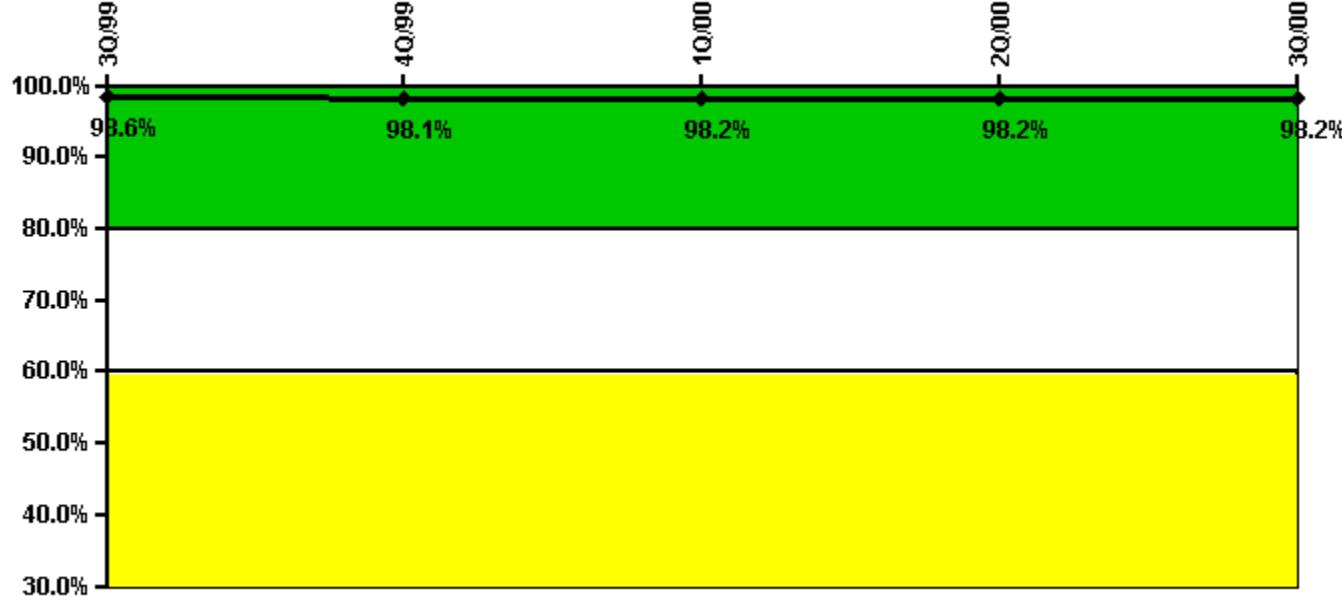
1Q/00: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised from 16 to 10. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

4Q/99: Previously submitted data for the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

3Q/99: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of

opportunities during the quarter has been revised from 50 to 34. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

ERO Drill Participation



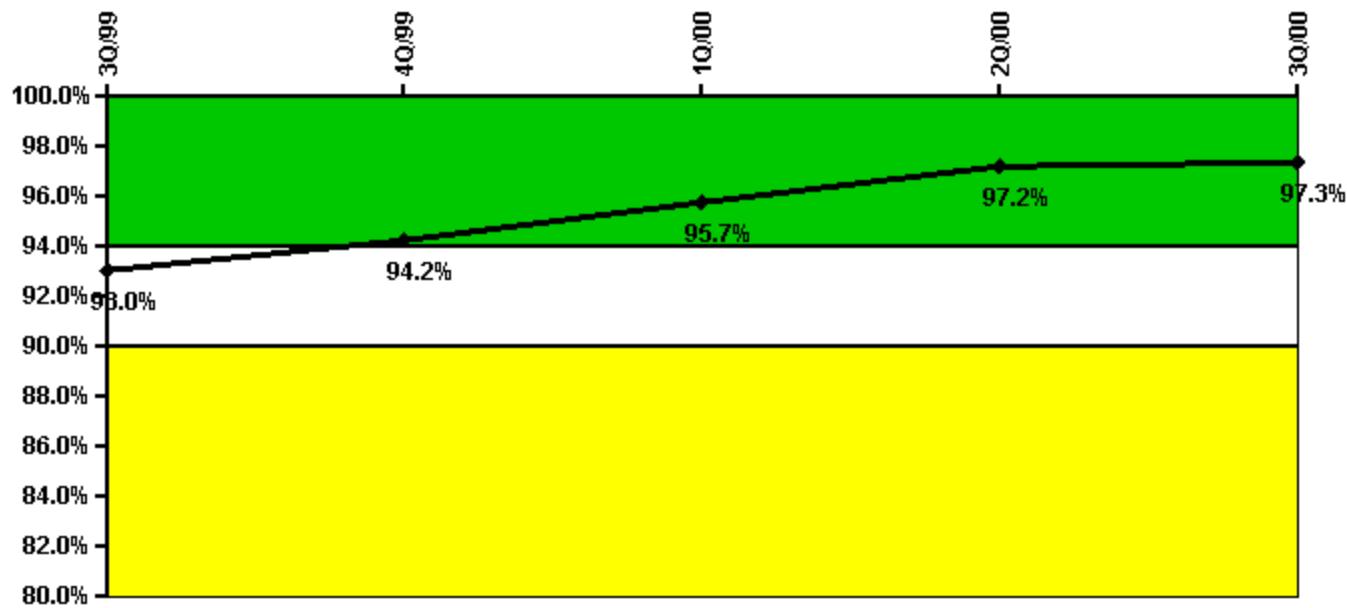
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Participating Key personnel	68.0	52.0	56.0	56.0	55.0
Total Key personnel	69.0	53.0	57.0	57.0	56.0
Indicator value	98.6%	98.1%	98.2%	98.2%	98.2%

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	862	861	929	929	906
Total sirens-tests	896	885	950	955	936
Indicator value	93.0%	94.2%	95.7%	97.2%	97.3%

Licensee Comments: none

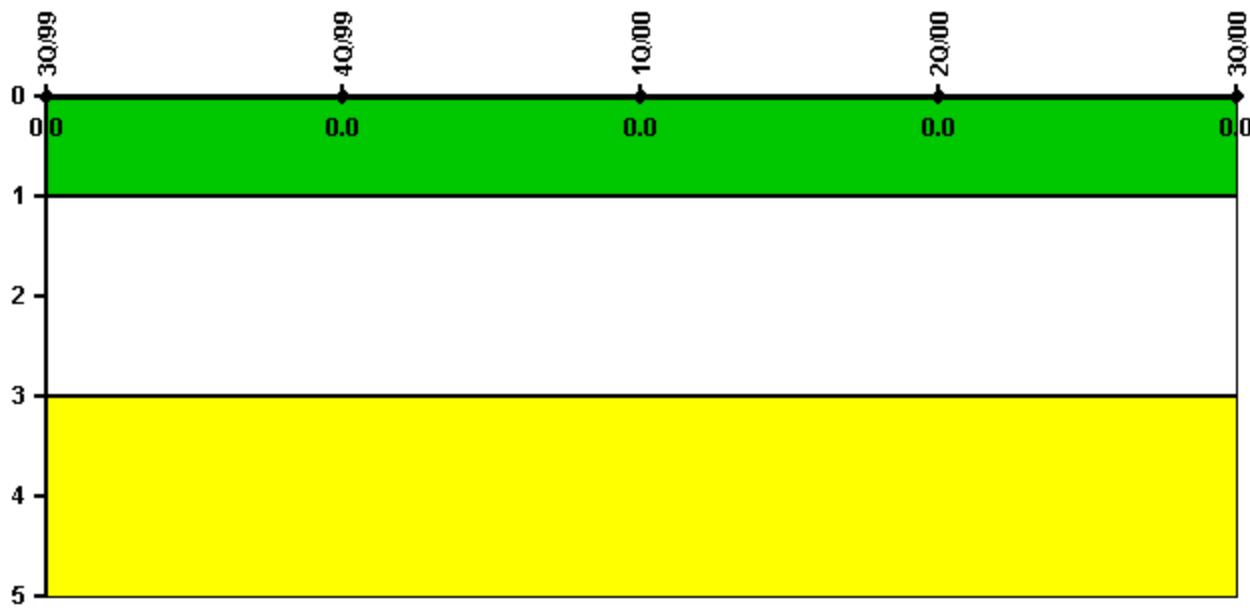
Occupational Exposure Control Effectiveness

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

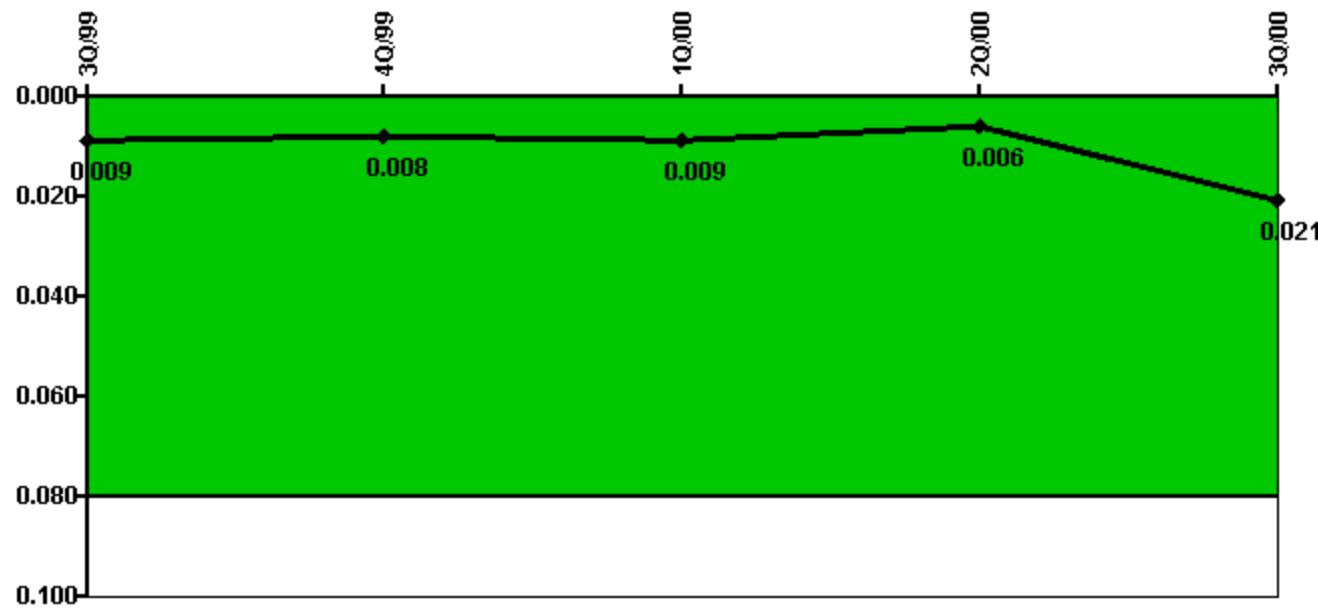
Thresholds: White > 1.0 Yellow > 3.0

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



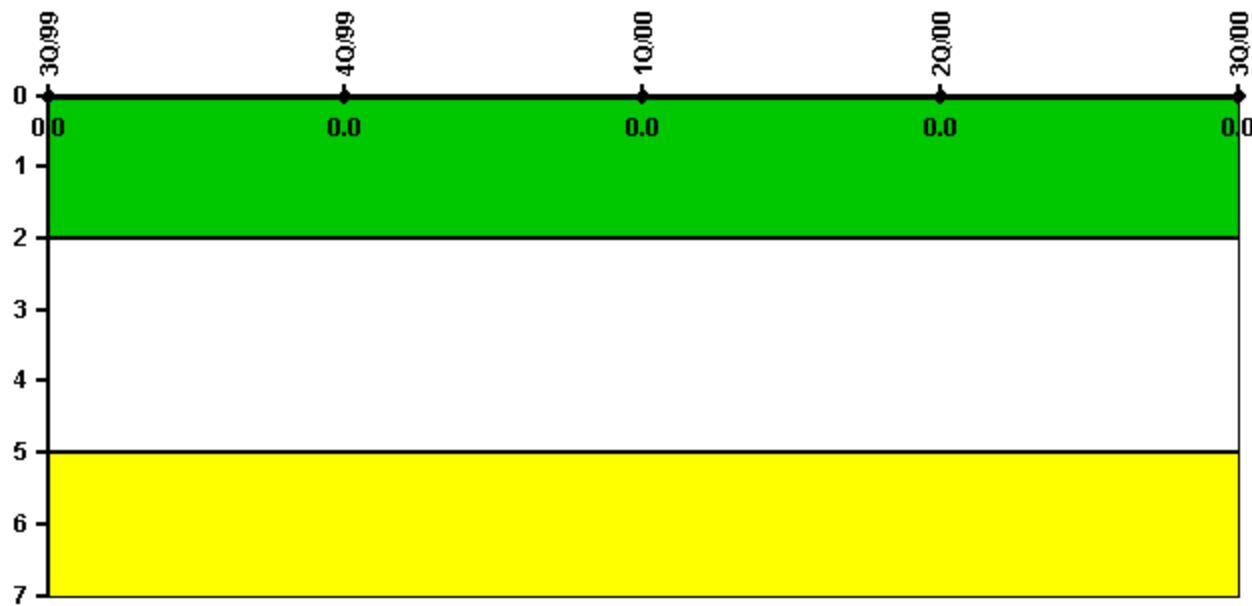
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
IDS compensatory hours	24.40	50.10	46.00	38.60	390.70
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2
Index Value	0.009	0.008	0.009	0.006	0.021

Licensee Comments: none

Personnel Screening Program

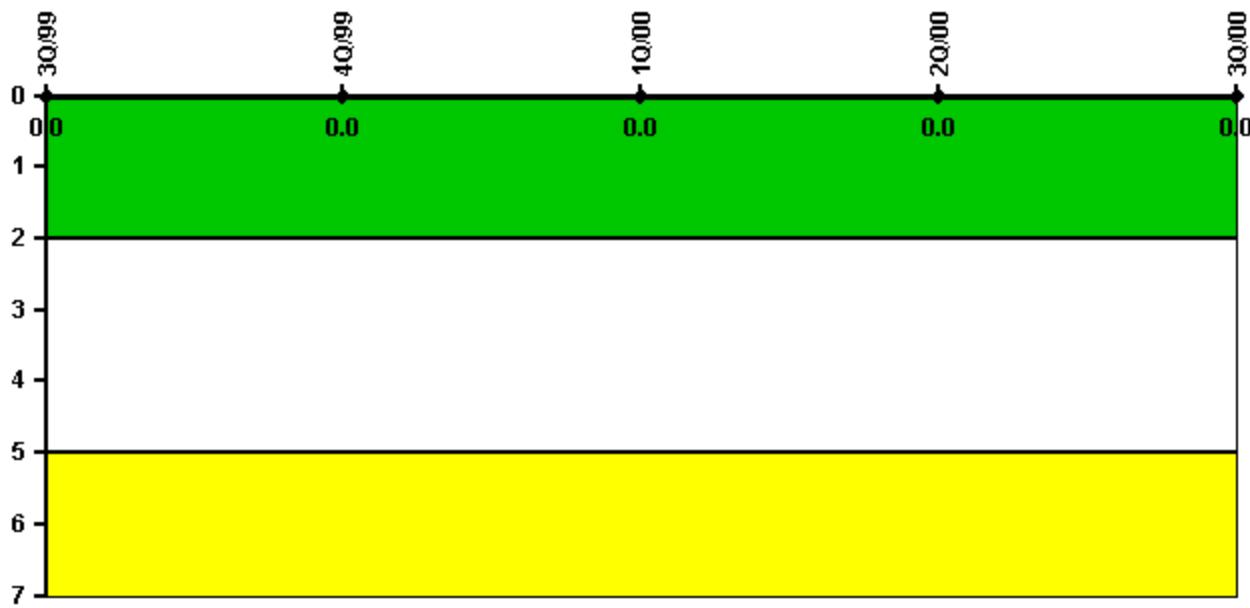


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

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

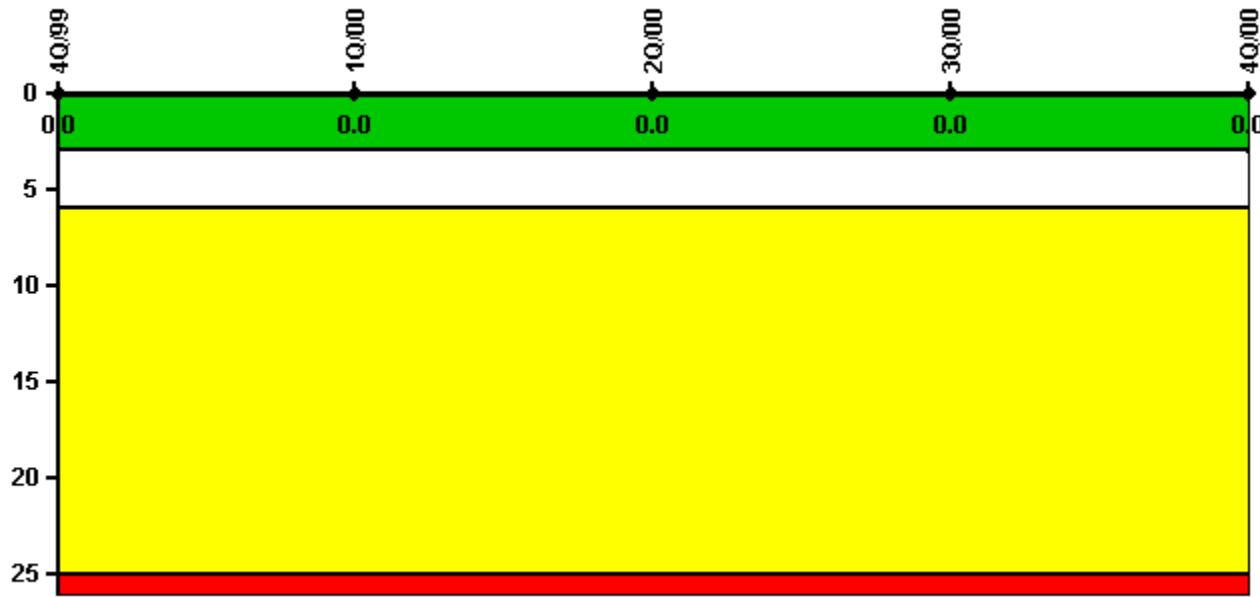


[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 29, 2002

Calvert Cliffs 2**4Q/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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned scrams	0	0	0	0	0
Critical hours	2209.0	2019.8	2183.0	2208.0	2209.0
Indicator value	0	0	0	0	0

Licensee Comments: none

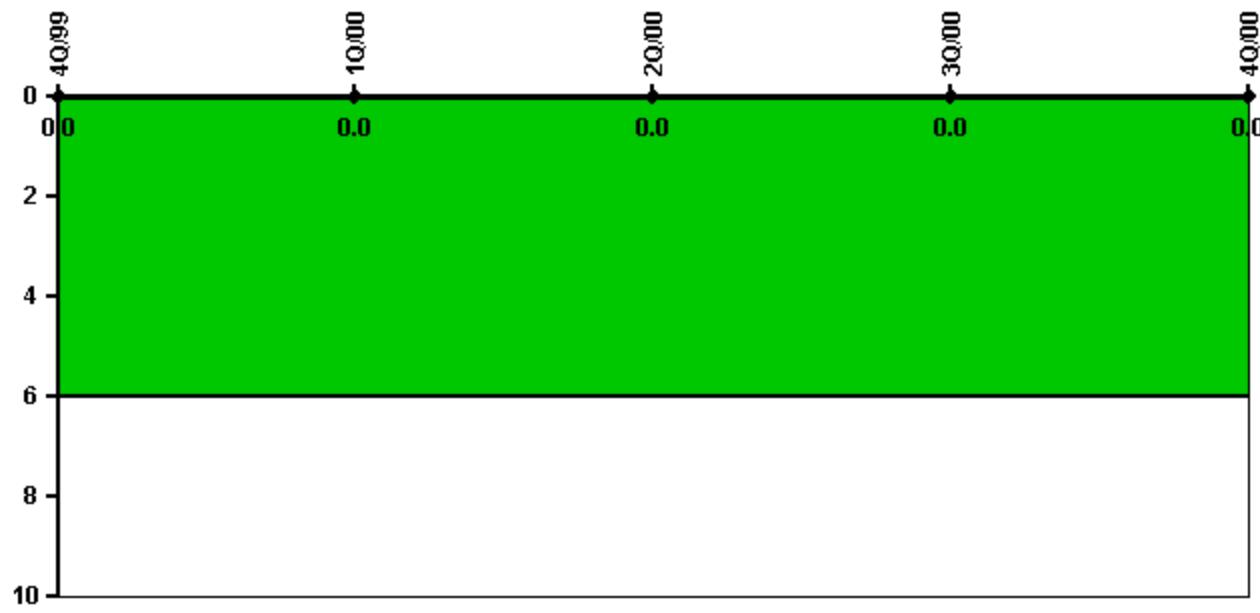
Scrams with Loss of Normal Heat Removal

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
Scrams	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

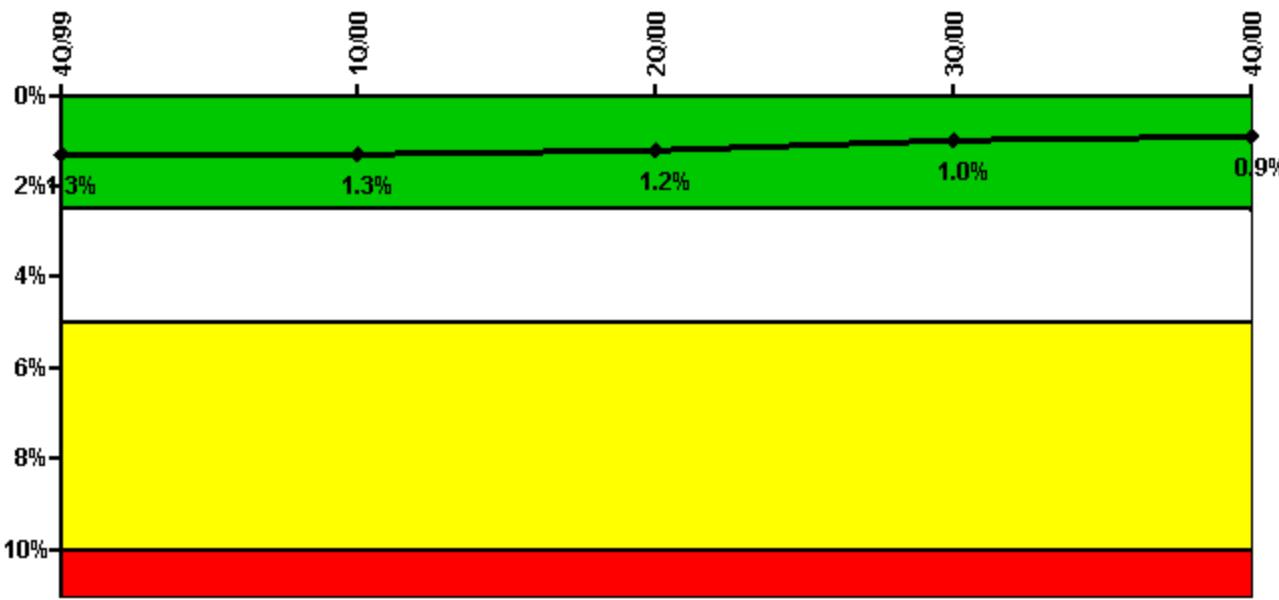
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned power changes	0	0	0	0	0
Critical hours	2209.0	2019.8	2183.0	2208.0	2209.0
Indicator value	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/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	2.15	31.00	0	0	0
Unplanned unavailable hours	10.83	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Train 2					
Planned unavailable hours	0.12	13.38	0	0	0.50
Unplanned unavailable hours	8.40	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Indicator value	1.3%	1.3%	1.2%	1.0%	0.9%

Licensee Comments:

4Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Emergency AC Power system has changed to reflect a small increase in unavailable hours incurred during emergency diesel generator (EDG) testing. Specifically, unavailable hours are now incurred when performing barring of the EDG whether it is done manually or through the use of air barring. The change does not affect the "color" of the indicator.

4Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

3Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Emergency AC Power system has changed to reflect a small increase in unavailable hours incurred during emergency diesel

generator (EDG) testing. Specifically, unavailable hours are now incurred when performing barring of the EDG whether it is done manually or through the use of air barring. The change does not affect the "color" of the indicator.

3Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

2Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Emergency AC Power system has changed to reflect a small increase in unavailable hours incurred during emergency diesel generator (EDG) testing. Specifically, unavailable hours are now incurred when performing barring of the EDG whether it is done manually or through the use of air barring. The change does not affect the "color" of the indicator.

2Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

1Q/00: During a self-assessment, we identified unavailable hours that were not reported for the safety-related A or B train diesel generator being out-of-service. Previous reporting credited the station blackout OC diesel generator while the safety related diesel generator was out-of-service for maintenance. After reviewing Frequently Asked Questions 167 and 218, we have concluded that use of the OC diesel generator can not be credited. In addition, previous reporting of unavailable hours did not utilize the exclusion of planned overhaul hours because we were crediting the OC diesel generator. This change report also includes the exclusion of planned overhaul hours in our diesel generator unavailability reporting. This change does not change the color of the performance indicator.

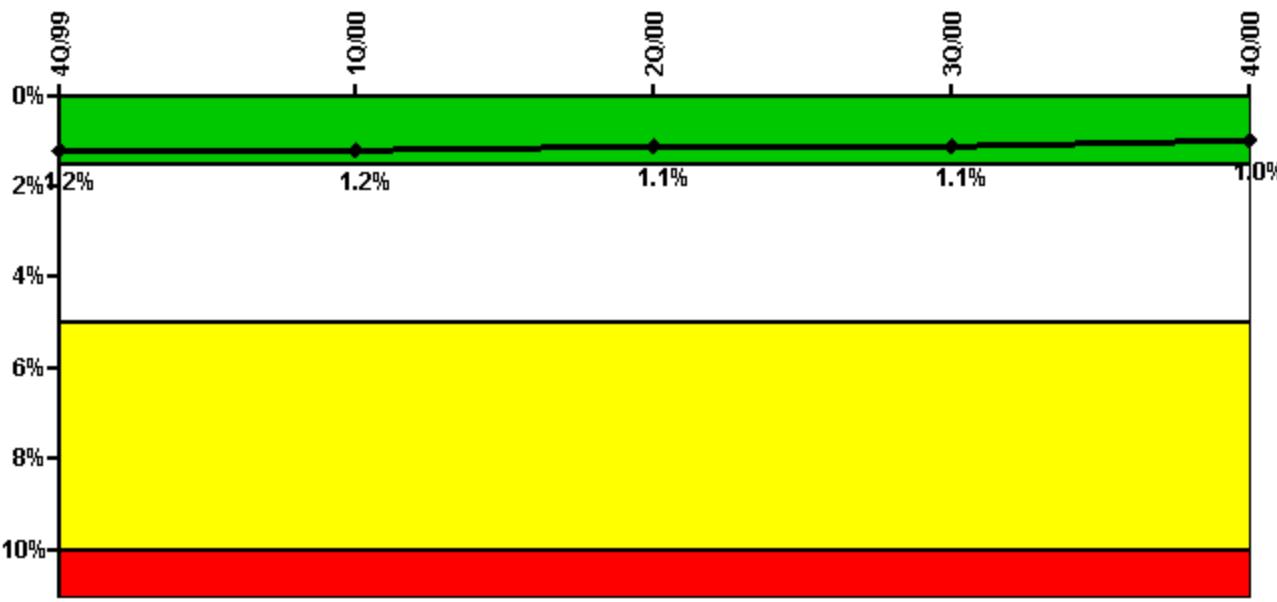
1Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

1Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Emergency AC Power system has changed to reflect a small increase in unavailable hours incurred during emergency diesel generator (EDG) testing. Specifically, unavailable hours are now incurred when performing barring of the EDG whether it is done manually or through the use of air barring. The change does not affect the "color" of the indicator.

4Q/99: During a self-assessment, we identified unavailable hours that were not reported for the safety-related A or B train diesel generator being out-of-service. Previous reporting credited the station blackout OC diesel generator while the safety related diesel generator was out-of-service for maintenance. After reviewing Frequently Asked Questions 167 and 218, we have concluded that use of the OC diesel generator can not be credited. In addition, previous reporting of unavailable hours did not utilize the exclusion of planned overhaul hours because we were crediting the OC diesel generator. This change report also includes the exclusion of planned overhaul hours in our diesel generator unavailability reporting. This change does not change the color of the performance indicator.

3Q/99: During a self-assessment, we identified unavailable hours that were not reported for the safety-related A or B train diesel generator being out-of-service. Previous reporting credited the station blackout OC diesel generator while the safety related diesel generator was out-of-service for maintenance. After reviewing Frequently Asked Questions 167 and 218, we have concluded that use of the OC diesel generator can not be credited. In addition, previous reporting of unavailable hours did not utilize the exclusion of planned overhaul hours because we were crediting the OC diesel generator. This change report also includes the exclusion of planned overhaul hours in our diesel generator unavailability reporting. This change does not change the color of the performance indicator.

Safety System Unavailability, High Pressure Injection System (HPSI)



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

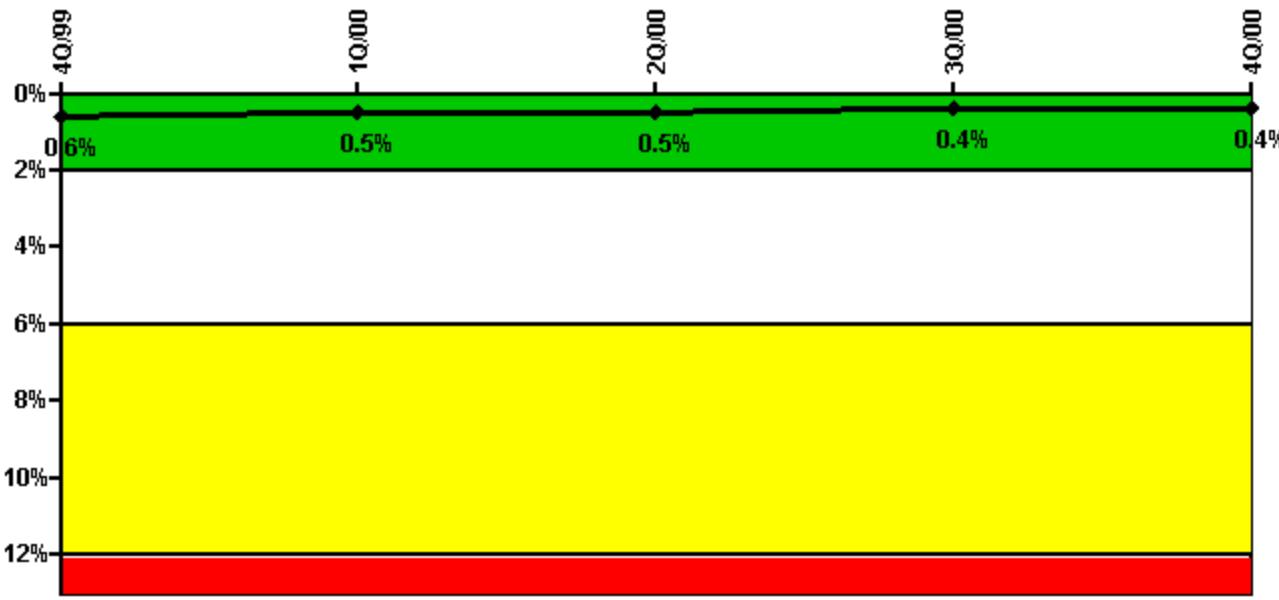
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	18.03	17.50	0.54	1.35	15.63
Unplanned unavailable hours	10.83	0	0	0	7.33
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2019.80	2183.00	2208.00	2209.00
Train 2					
Planned unavailable hours	1.66	12.84	0.62	26.17	1.13
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	2209.00	2019.80	2183.00	2208.00	2209.00
Indicator value	1.2%	1.2%	1.1%	1.1%	1.0%

Licensee Comments:

1Q/98: During implementation of a new process to uniquely designate and identify unavailability records for the NRC performance indicators, we discovered some small errors in the unavailability data reported for 1998. These changes do not impact the color of the performance indicator.

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	9.25	1.00	1.00	1.00	2.75
Unplanned unavailable hours	0	5.12	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2019.80	2183.00	2208.00	2209.00
Train 2					
Planned unavailable hours	9.25	1.00	1.00	1.00	2.75
Unplanned unavailable hours	0	5.12	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2019.80	2183.00	2208.00	2209.00
Train 3					
Planned unavailable hours	11.00	0	1.50	5.23	3.83
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	2209.00	2019.80	2183.00	2208.00	2209.00
Indicator value	0.6%	0.5%	0.5%	0.4%	0.4%

Licensee Comments:

4Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Auxiliary Feedwater (AFW) system has changed to reflect a small increase in unavailable hours incurred during AFW testing. Specifically, unavailable hours are now incurred when the AFW steam driven pumps are tripped until the steam valves are reset. The change does not affect the "color" of the indicator.

3Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains

1 and 2 of the Auxiliary Feedwater (AFW) system has changed to reflect a small increase in unavailable hours incurred during AFW testing. Specifically, unavailable hours are now incurred when the AFW steam driven pumps are tripped until the steam valves are reset. The change does not affect the "color" of the indicator.

2Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Auxiliary Feedwater (AFW) system has changed to reflect a small increase in unavailable hours incurred during AFW testing. Specifically, unavailable hours are now incurred when the AFW steam driven pumps are tripped until the steam valves are reset. The change does not affect the "color" of the indicator.

1Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Auxiliary Feedwater (AFW) system has changed to reflect a small increase in unavailable hours incurred during AFW testing. Specifically, unavailable hours are now incurred when the AFW steam driven pumps are tripped until the steam valves are reset. The change does not affect the "color" of the indicator.

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	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	109.90	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	109.90	0	0	0
Train 3					
Planned unavailable hours	26.93	18.60	1.88	1.42	17.30
Unplanned unavailable hours	10.83	0	0	0	7.33
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2074.10	2183.00	2208.00	2209.00
Train 4					
Planned unavailable hours	1.43	15.10	1.36	26.41	2.23
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	2209.00	2074.10	2183.00	2208.00	2209.00
Indicator value	0.9%	0.8%	0.7%	0.7%	0.7%

Licensee Comments:

2Q/00: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

1Q/00: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

4Q/99: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

3Q/99: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

2Q/99: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

1Q/99: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

4Q/98: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

3Q/98: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

2Q/98: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

1Q/98: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

1Q/98: During implementation of a new process to uniquely designate and identify unavailability records for the NRC performance indicators, we discovered some small errors in the planned unavailability data reported for 1998. These changes do not change the color of the performance indicator.

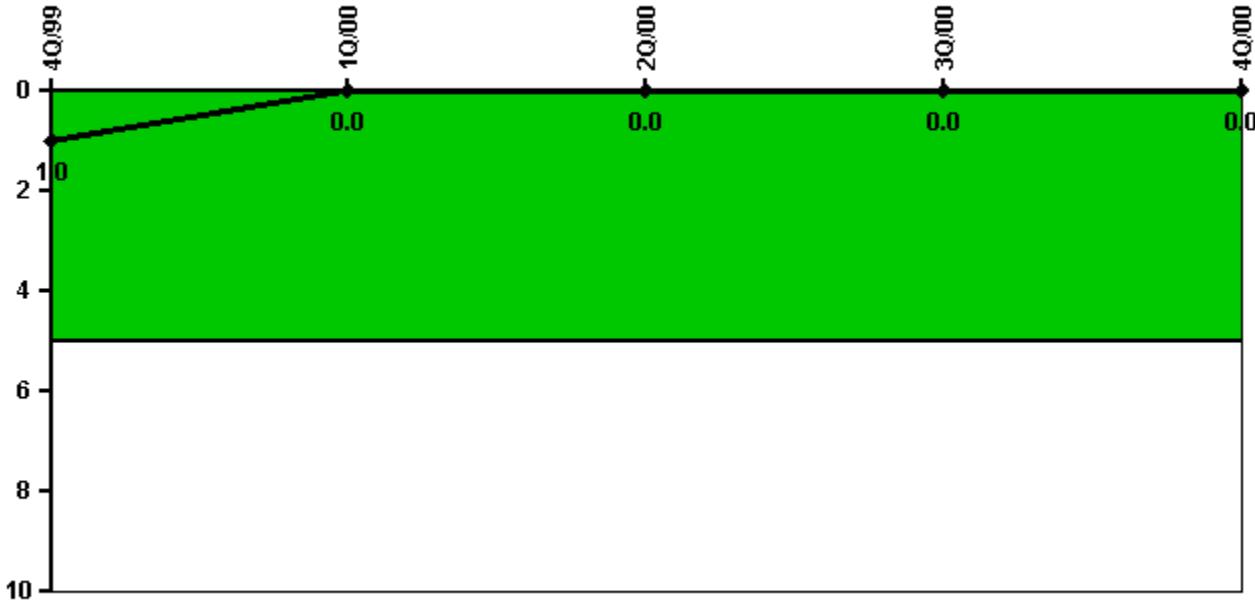
4Q/97: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

3Q/97: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

2Q/97: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

1Q/97: The revision reports additional unavailable hours that were recently discovered after recognizing that some surveillance testing hours were not adequately captured. This issue is being resolved and the hours are now reported.

Safety System Functional Failures (PWR)

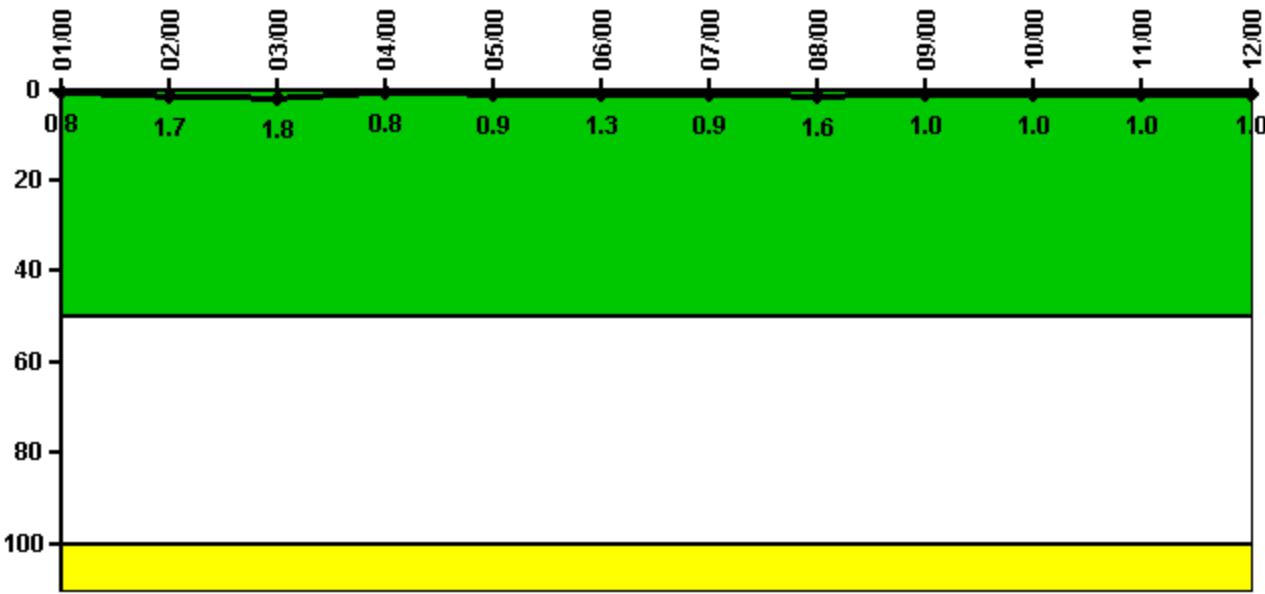


Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

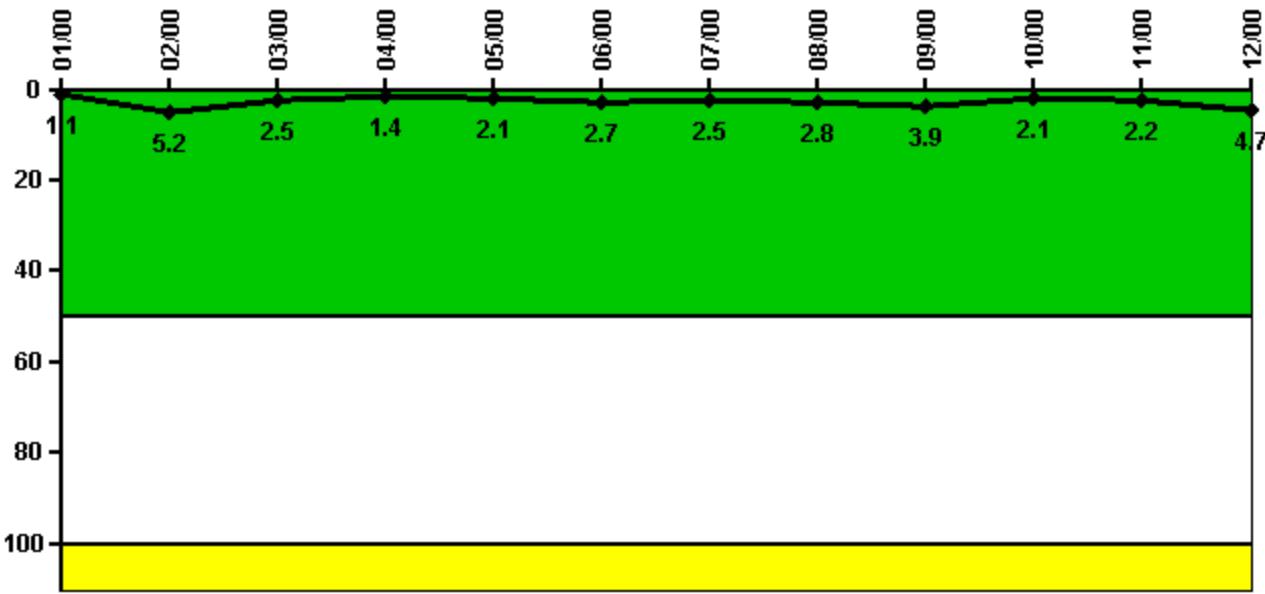
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum activity	0.008020	0.017200	0.018400	0.008250	0.008750	0.012700	0.008910	0.016400	0.009940	0.009960	0.010200	0.010400
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	0.8	1.7	1.8	0.8	0.9	1.3	0.9	1.6	1.0	1.0	1.0	1.0

Licensee Comments: none

Reactor Coolant System Leakage



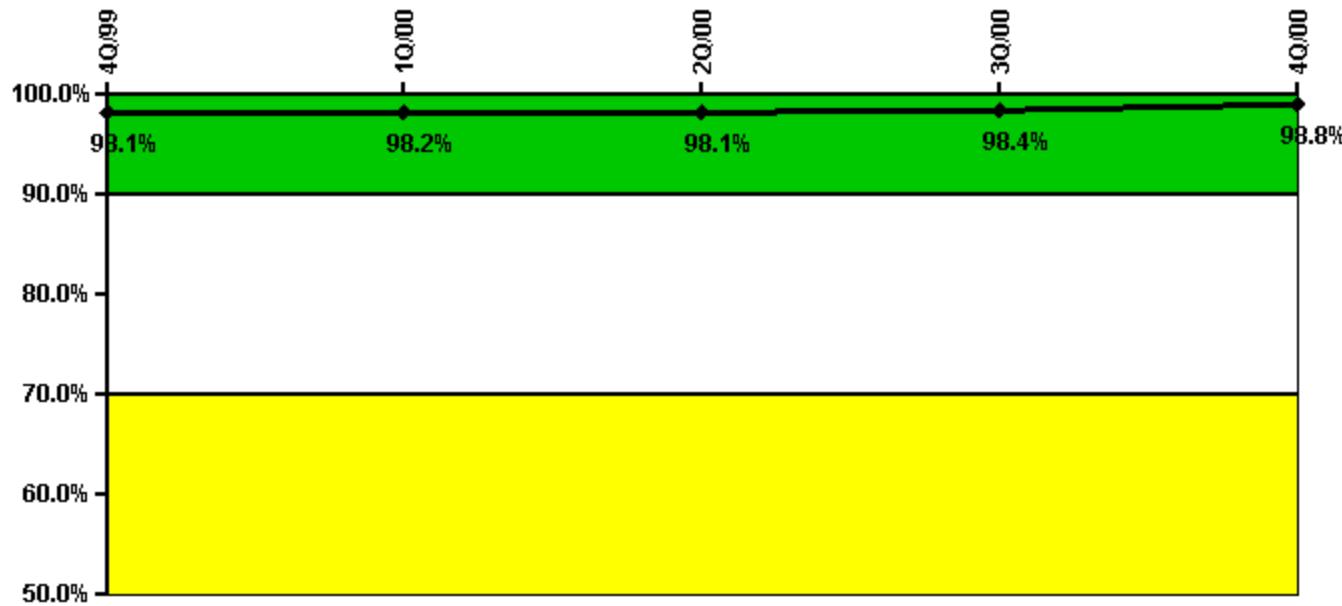
Thresholds: White > 50.0 Yellow > 100.0

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	0.114	0.521	0.254	0.142	0.207	0.267	0.254	0.277	0.393	0.212	0.224	0.471
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	1.1	5.2	2.5	1.4	2.1	2.7	2.5	2.8	3.9	2.1	2.2	4.7

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	57.0	10.0	19.0	32.0	33.0
Total opportunities	59.0	10.0	19.0	33.0	33.0
Indicator value	98.1%	98.2%	98.1%	98.4%	98.8%

Licensee Comments:

4Q/00: Previously submitted data for the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

3Q/00: Previously submitted data for the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

2Q/00: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised from 26 to 19. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

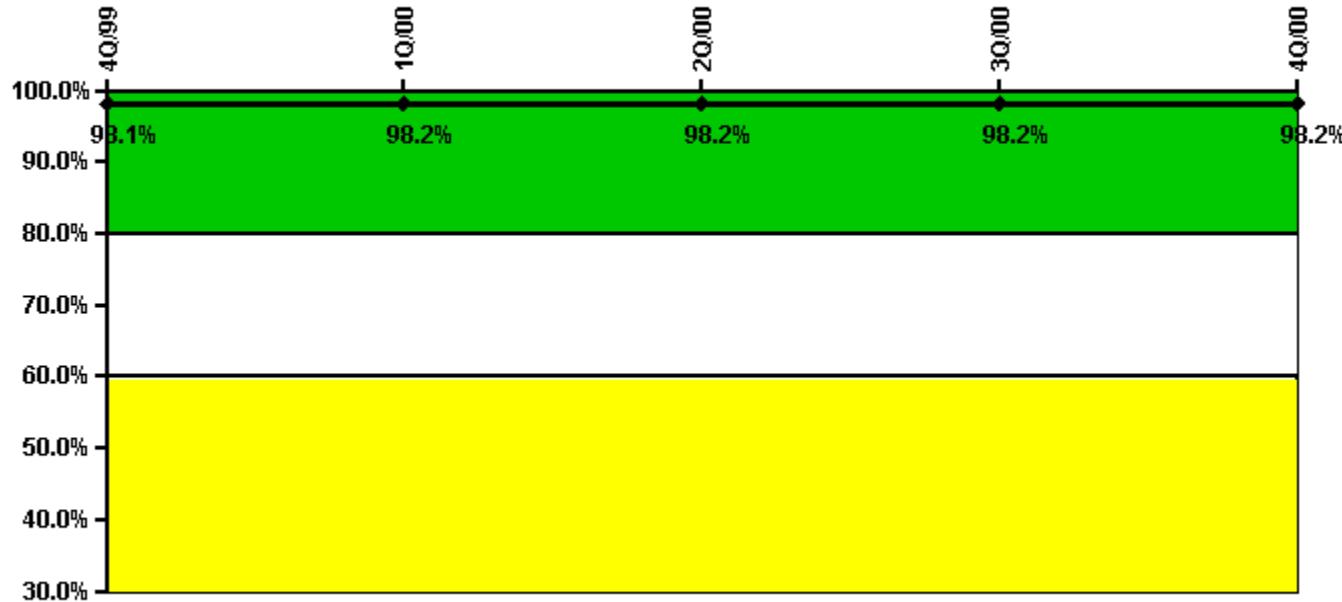
1Q/00: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised from 16 to 10. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

4Q/99: Previously submitted data for the number of opportunities performed timely and accurately during the quarter, and the number of

opportunities during the quarter has been revised. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

3Q/99: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised from 50 to 34. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

ERO Drill Participation

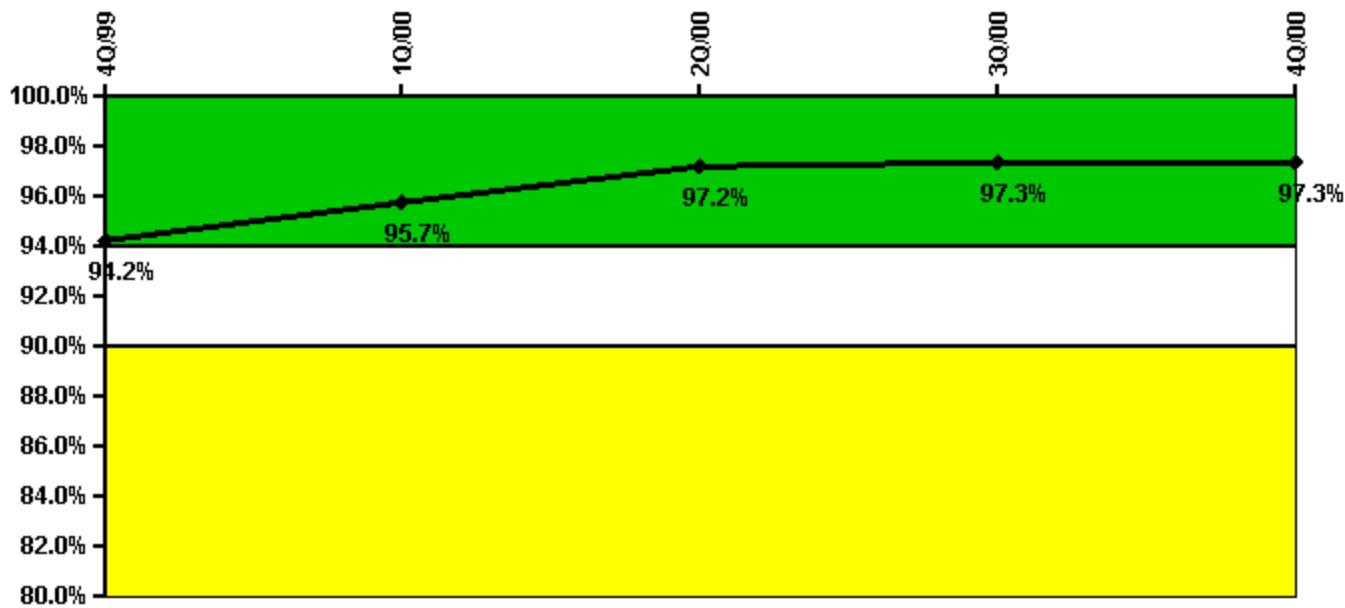


Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Participating Key personnel	52.0	56.0	56.0	55.0	54.0
Total Key personnel	53.0	57.0	57.0	56.0	55.0
Indicator value	98.1%	98.2%	98.2%	98.2%	98.2%

Licensee Comments: none

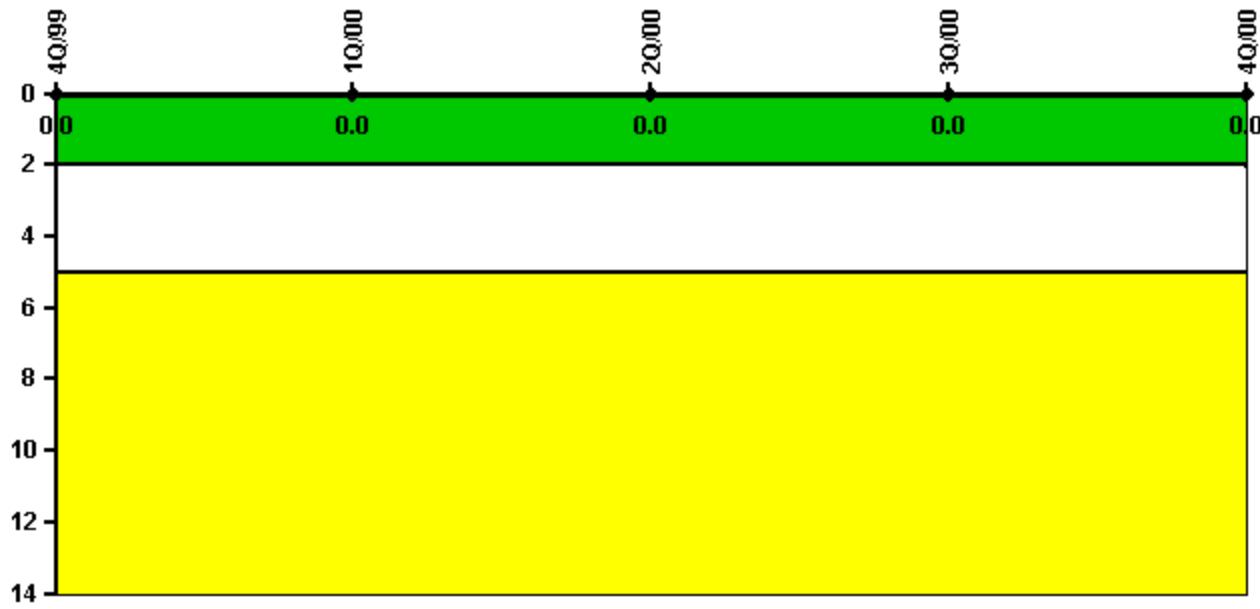
Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Successful siren-tests	861	929	929	906	1039
Total sirens-tests	885	950	955	936	1068
Indicator value	94.2%	95.7%	97.2%	97.3%	97.3%

Licensee Comments: none

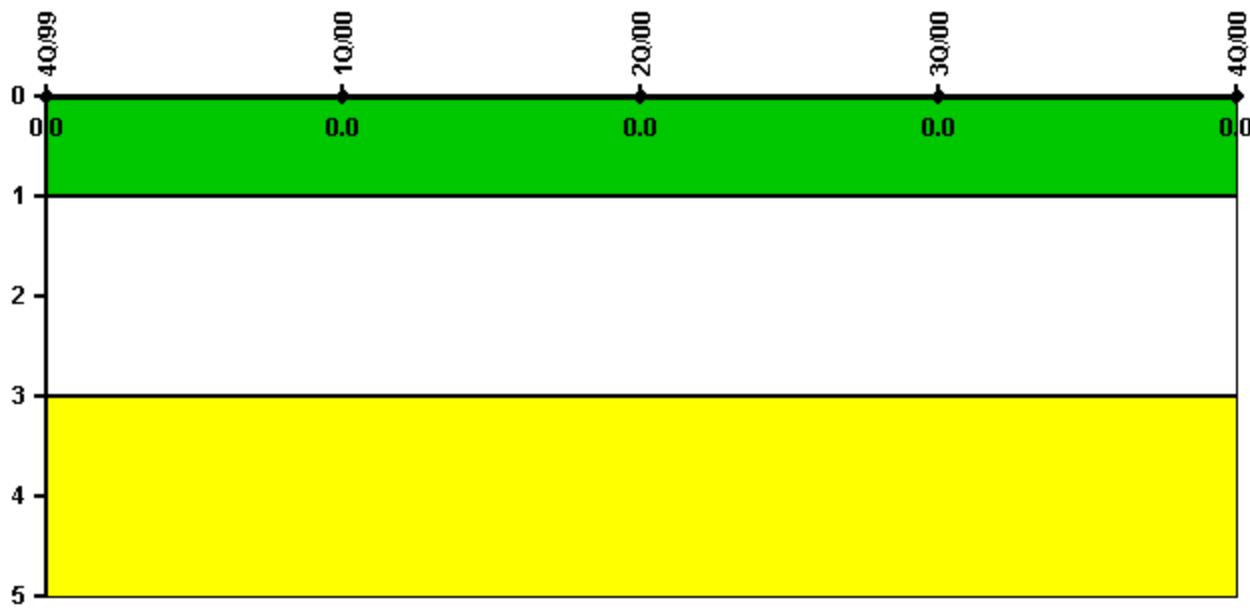
Occupational Exposure Control Effectiveness

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

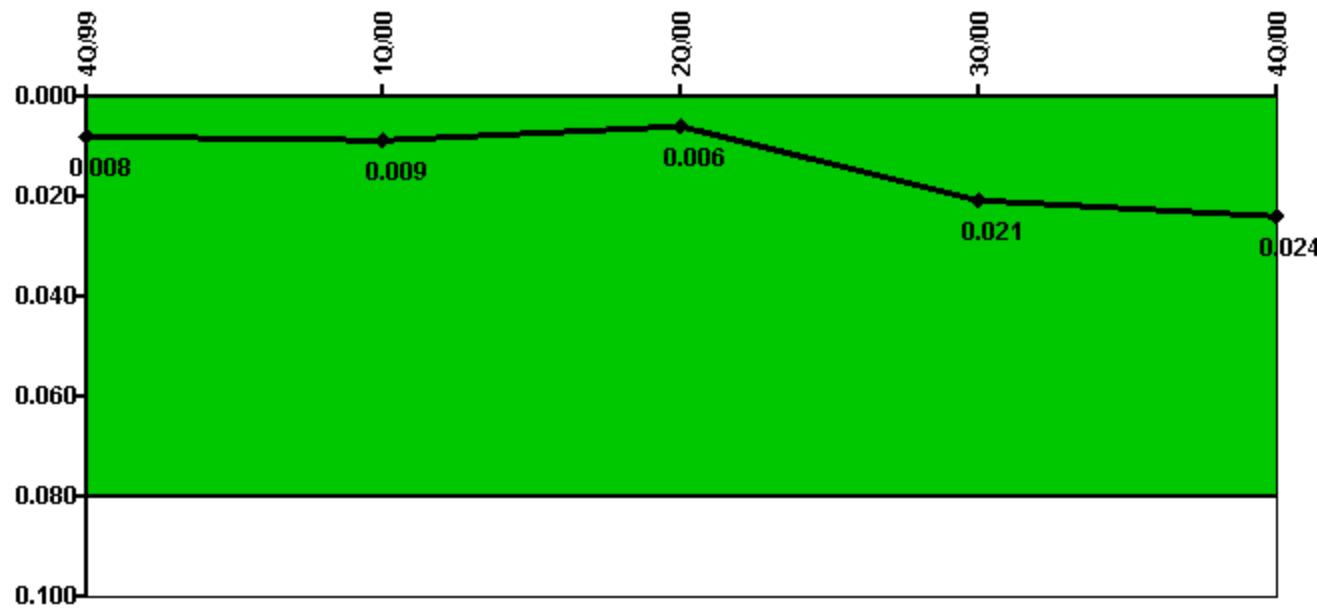
Thresholds: White > 1.0 Yellow > 3.0

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



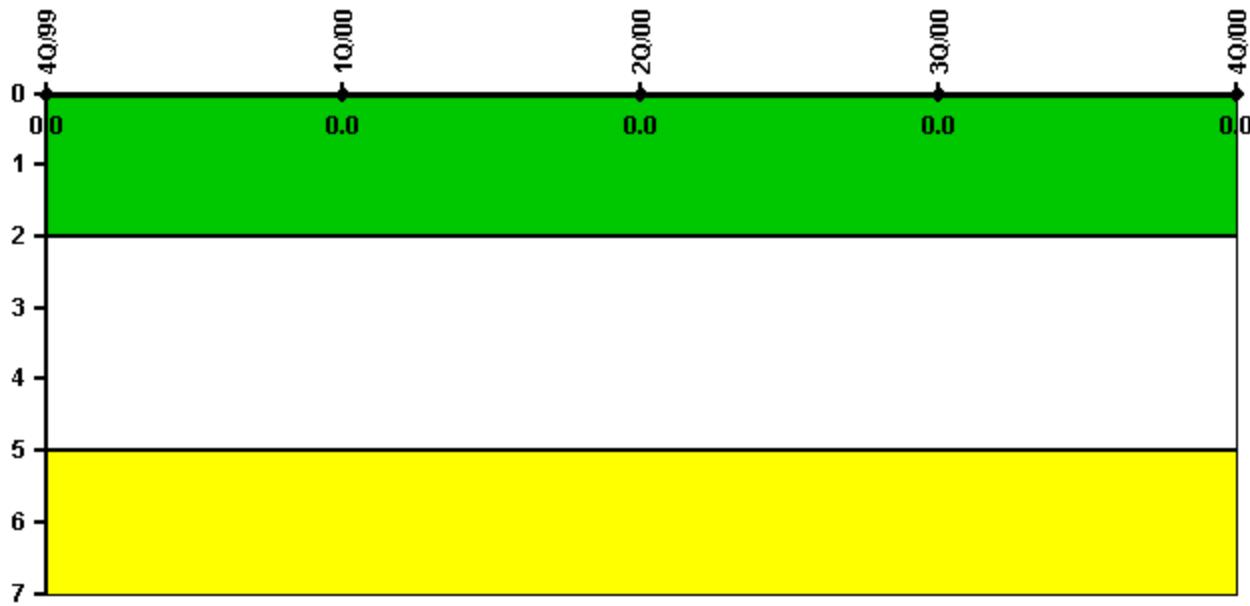
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
IDS compensatory hours	50.10	46.00	38.60	390.70	116.70
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2
Index Value	0.008	0.009	0.006	0.021	0.024

Licensee Comments: none

Personnel Screening Program

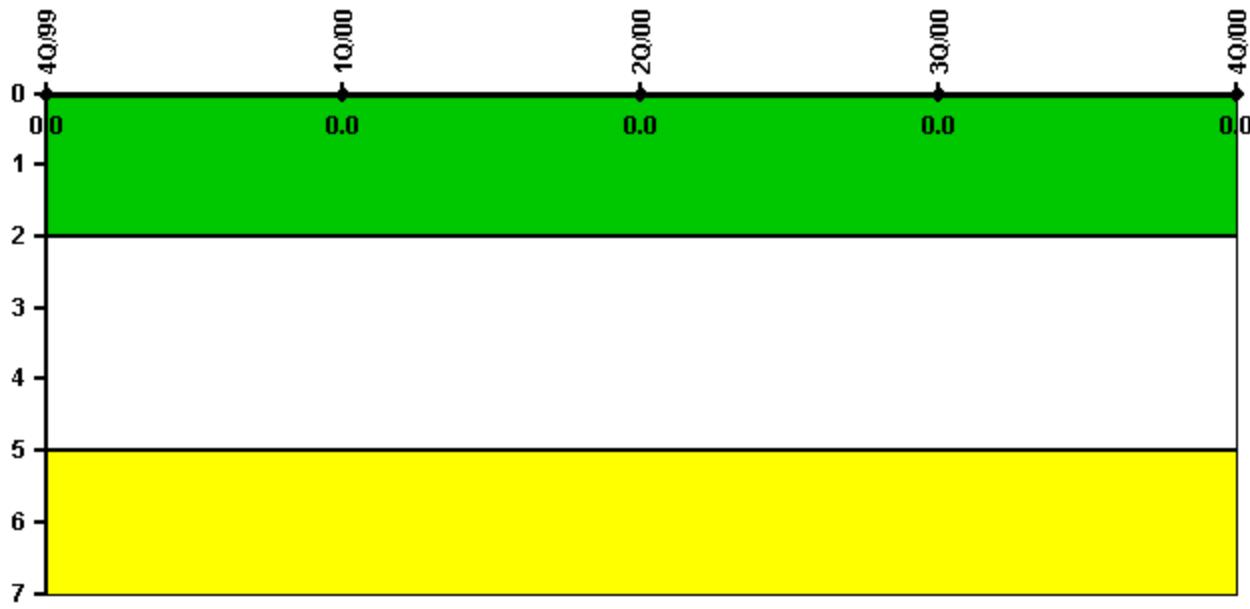


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

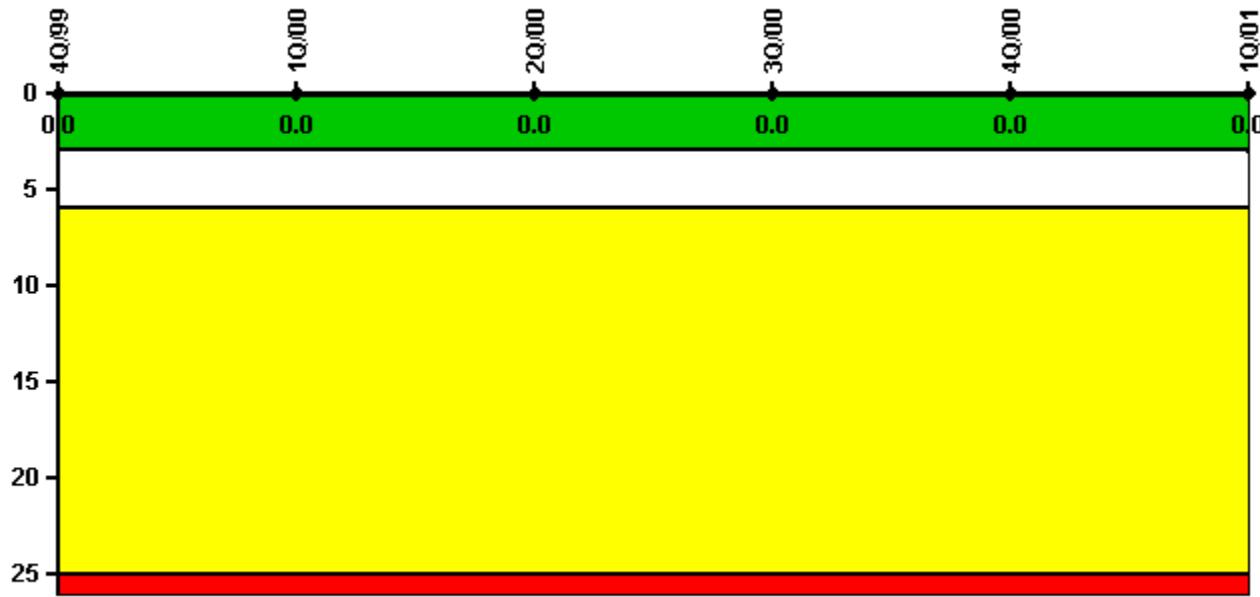


[PI Summary](#) | [Inspection Findings Summary](#) | [Action Matrix Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 28, 2002

Calvert Cliffs 2**1Q/2001 Performance Indicators**

Licensee's General Comments: none

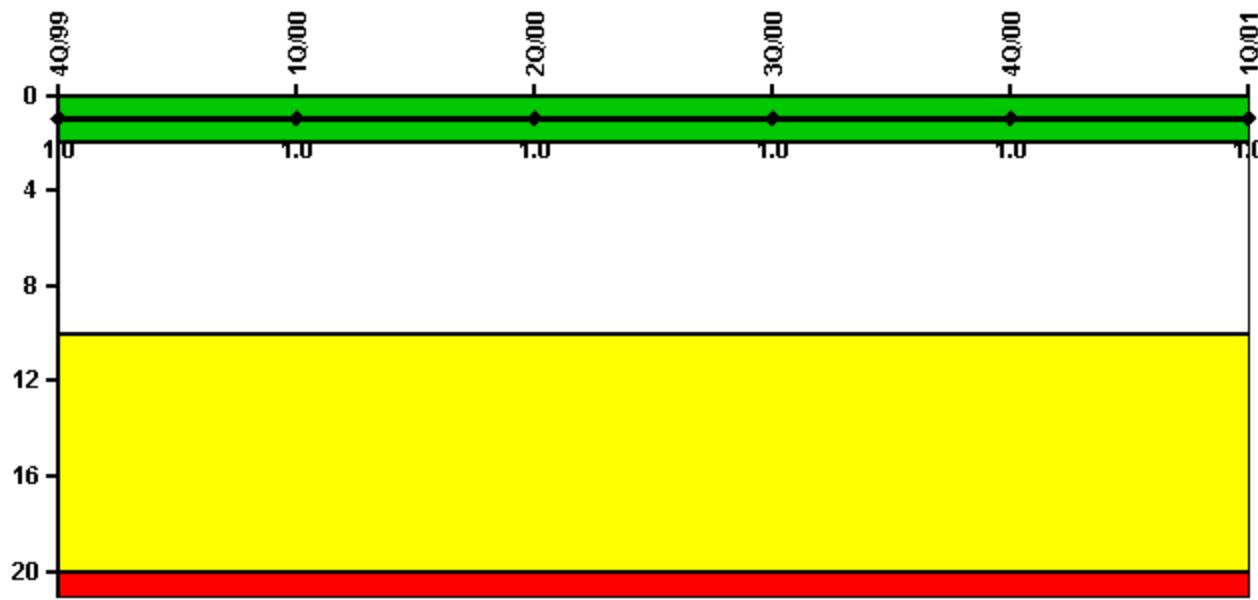
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned scrams	0	0	0	0	0	0
Critical hours	2209.0	2019.8	2183.0	2208.0	2209.0	1800.0
Indicator value	0	0	0	0	0	0

Licensee Comments: none

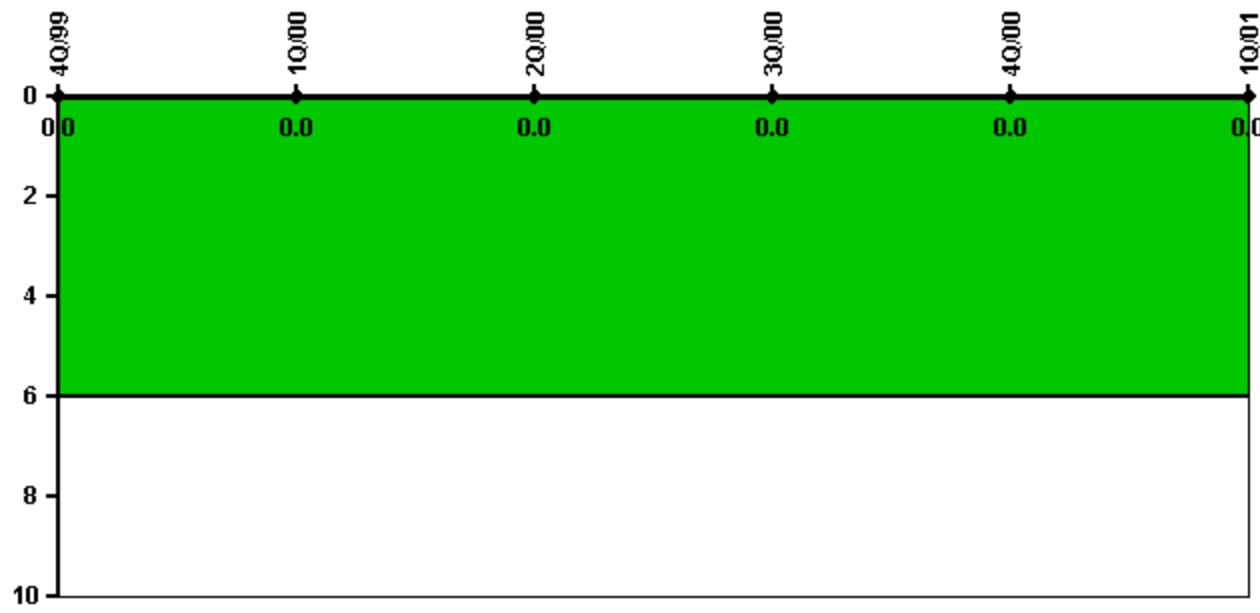
Scrams with Loss of Normal Heat Removal

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
Scrams	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

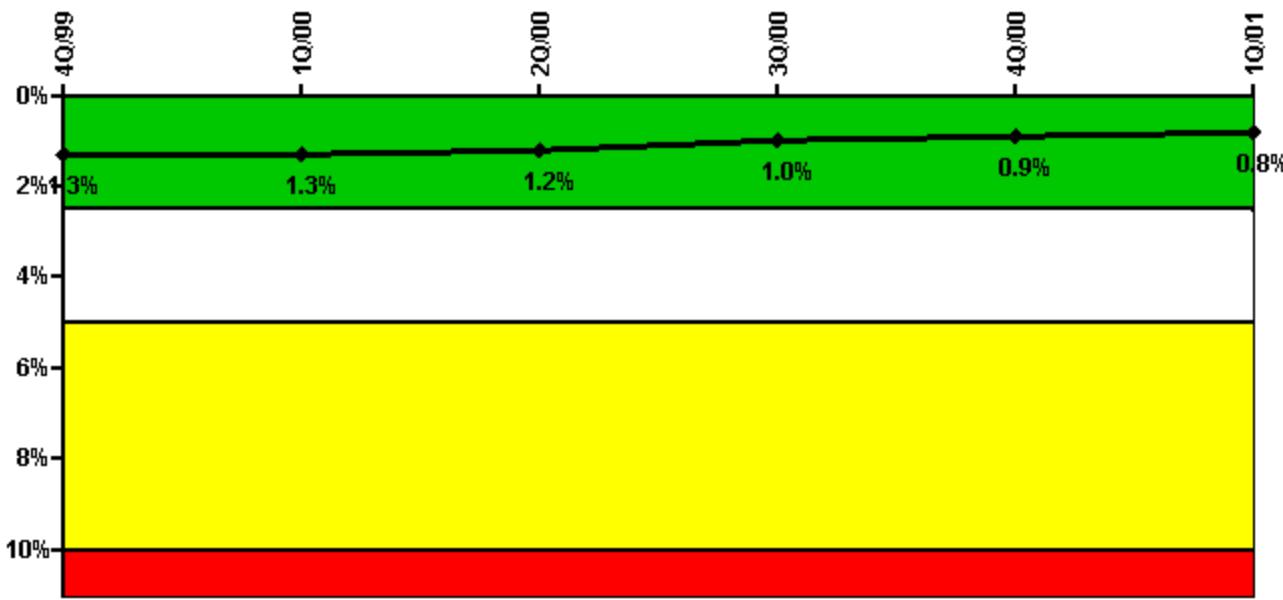
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned power changes	0	0	0	0	0	0
Critical hours	2209.0	2019.8	2183.0	2208.0	2209.0	1800.0
Indicator value	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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	2.15	31.00	0	0	0	15.33
Unplanned unavailable hours	10.83	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	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	0.12	13.38	0	0	0.50	37.40
Unplanned unavailable hours	8.40	0	0	0	0	0.25
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	1.3%	1.3%	1.2%	1.0%	0.9%	0.8%

Licensee Comments:

1Q/01: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

4Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

4Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains

1 and 2 of the Emergency AC Power system has changed to reflect a small increase in unavailable hours incurred during emergency diesel generator (EDG) testing. Specifically, unavailable hours are now incurred when performing barring of the EDG whether it is done manually or through the use of air barring. The change does not affect the "color" of the indicator.

3Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

3Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Emergency AC Power system has changed to reflect a small increase in unavailable hours incurred during emergency diesel generator (EDG) testing. Specifically, unavailable hours are now incurred when performing barring of the EDG whether it is done manually or through the use of air barring. The change does not affect the "color" of the indicator.

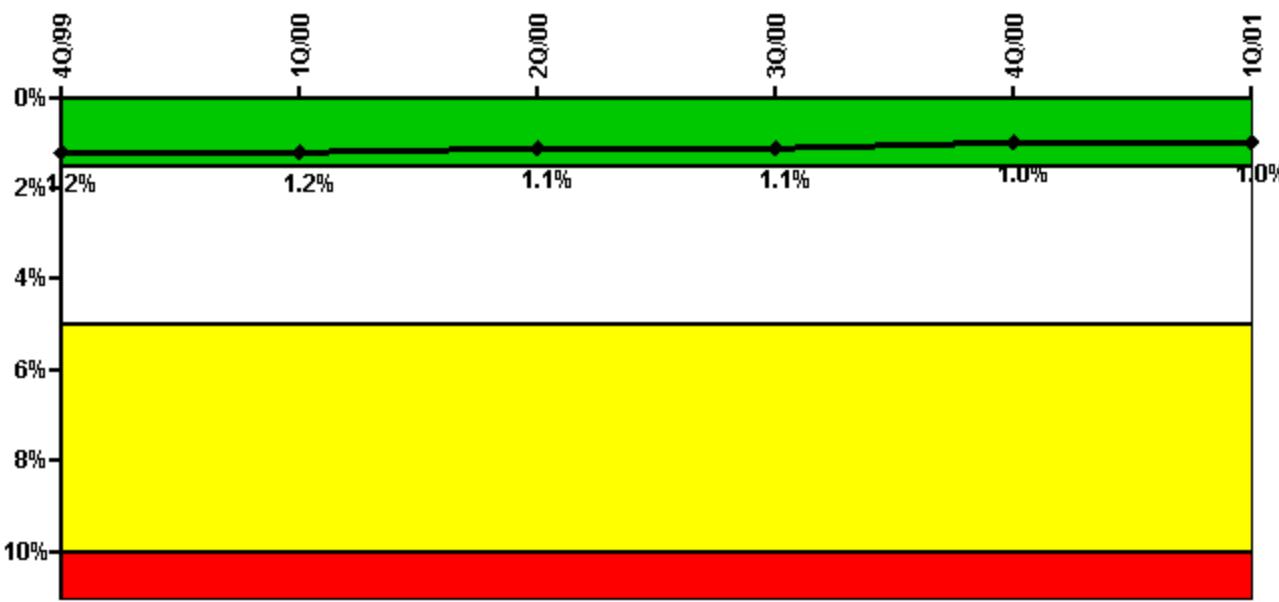
2Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Emergency AC Power system has changed to reflect a small increase in unavailable hours incurred during emergency diesel generator (EDG) testing. Specifically, unavailable hours are now incurred when performing barring of the EDG whether it is done manually or through the use of air barring. The change does not affect the "color" of the indicator.

2Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

1Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

1Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Emergency AC Power system has changed to reflect a small increase in unavailable hours incurred during emergency diesel generator (EDG) testing. Specifically, unavailable hours are now incurred when performing barring of the EDG whether it is done manually or through the use of air barring. The change does not affect the "color" of the indicator.

Safety System Unavailability, High Pressure Injection System (HPSI)



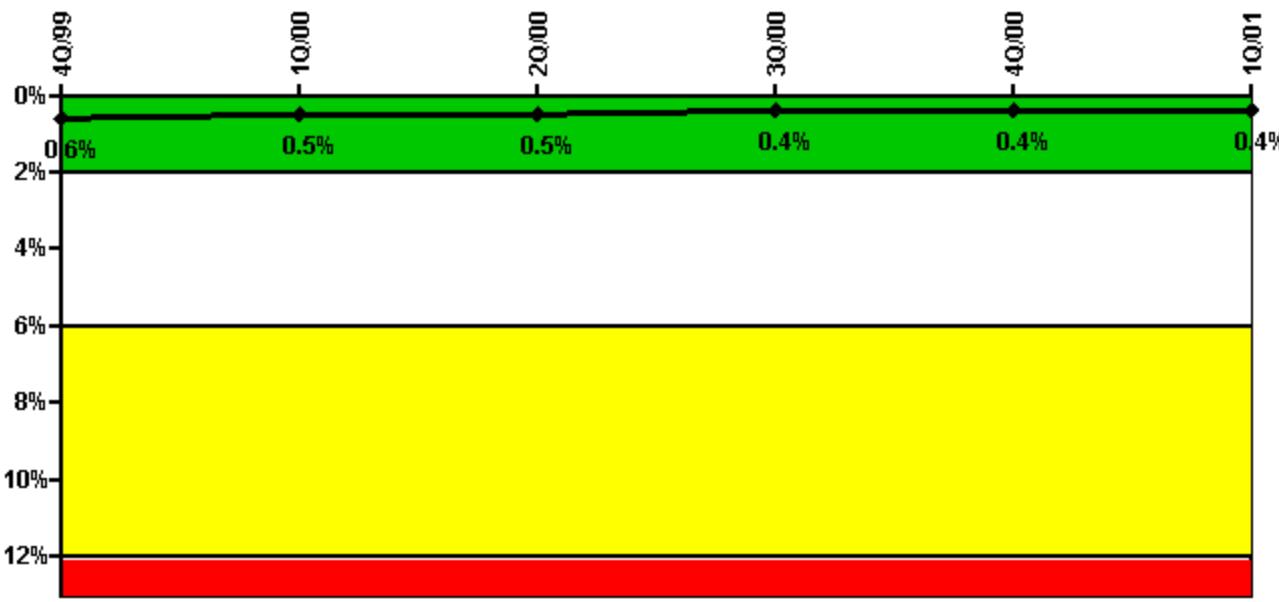
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	18.03	17.50	0.54	1.35	15.63	36.34
Unplanned unavailable hours	10.83	0	0	0	7.33	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2019.80	2183.00	2208.00	2209.00	1800.00
Train 2						
Planned unavailable hours	1.66	12.84	0.62	26.17	1.13	19.27
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	2209.00	2019.80	2183.00	2208.00	2209.00	1800.00
Indicator value	1.2%	1.2%	1.1%	1.1%	1.0%	1.0%

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/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1							
Planned unavailable hours		9.25	1.00	1.00	1.00	2.75	2.33
Unplanned unavailable hours		0	5.12	0	0	0	0
Fault exposure hours		0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0
Required hours		2209.00	2019.80	2183.00	2208.00	2209.00	1800.00
Train 2							
Planned unavailable hours		9.25	1.00	1.00	1.00	2.75	2.33
Unplanned unavailable hours		0	5.12	0	0	0	0
Fault exposure hours		0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0
Required hours		2209.00	2019.80	2183.00	2208.00	2209.00	1800.00
Train 3							
Planned unavailable hours		11.00	0	1.50	5.23	3.83	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		2209.00	2019.80	2183.00	2208.00	2209.00	1800.00
Indicator value		0.6%	0.5%	0.5%	0.4%	0.4%	0.4%

Licensee Comments:

4Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Auxiliary Feedwater (AFW) system has changed to reflect a small increase in unavailable hours incurred during AFW testing. Specifically, unavailable hours are now incurred when the AFW steam driven pumps are tripped until the steam valves are reset. The change does not affect the "color" of the indicator.

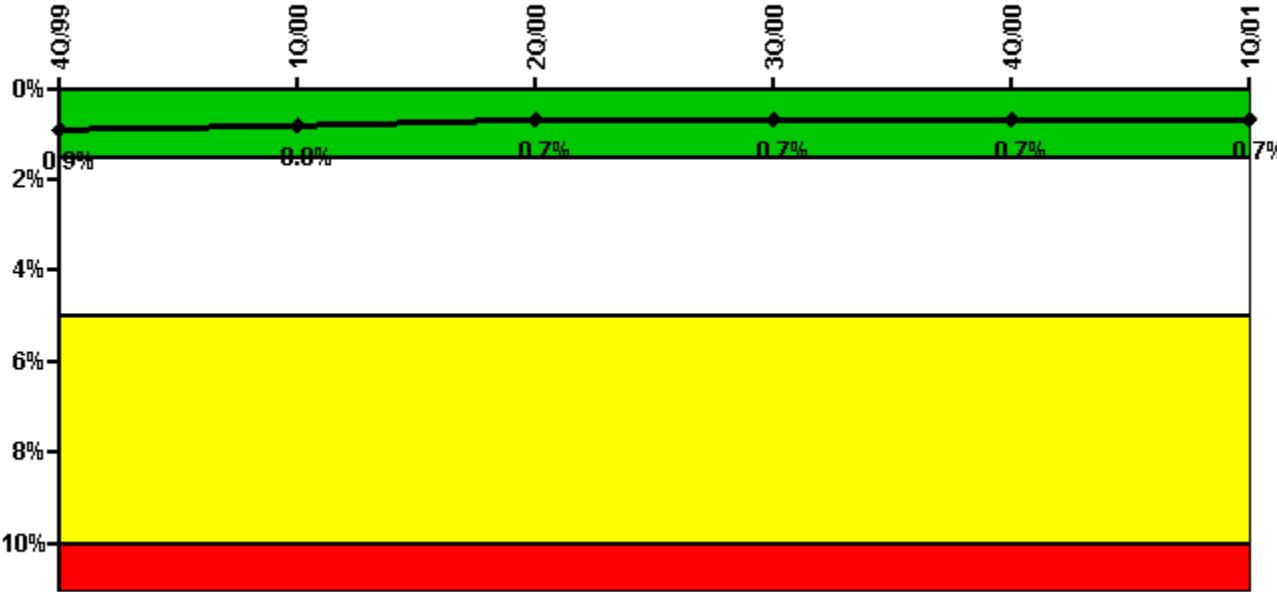
3Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains

1 and 2 of the Auxiliary Feedwater (AFW) system has changed to reflect a small increase in unavailable hours incurred during AFW testing. Specifically, unavailable hours are now incurred when the AFW steam driven pumps are tripped until the steam valves are reset. The change does not affect the "color" of the indicator.

2Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Auxiliary Feedwater (AFW) system has changed to reflect a small increase in unavailable hours incurred during AFW testing. Specifically, unavailable hours are now incurred when the AFW steam driven pumps are tripped until the steam valves are reset. The change does not affect the "color" of the indicator.

1Q/00: The number of planned unavailable hours previously submitted for the first quarter of 2000 through the fourth quarter of 2000 for trains 1 and 2 of the Auxiliary Feedwater (AFW) system has changed to reflect a small increase in unavailable hours incurred during AFW testing. Specifically, unavailable hours are now incurred when the AFW steam driven pumps are tripped until the steam valves are reset. The change does not affect the "color" of the indicator.

Safety System Unavailability, Residual Heat Removal System



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

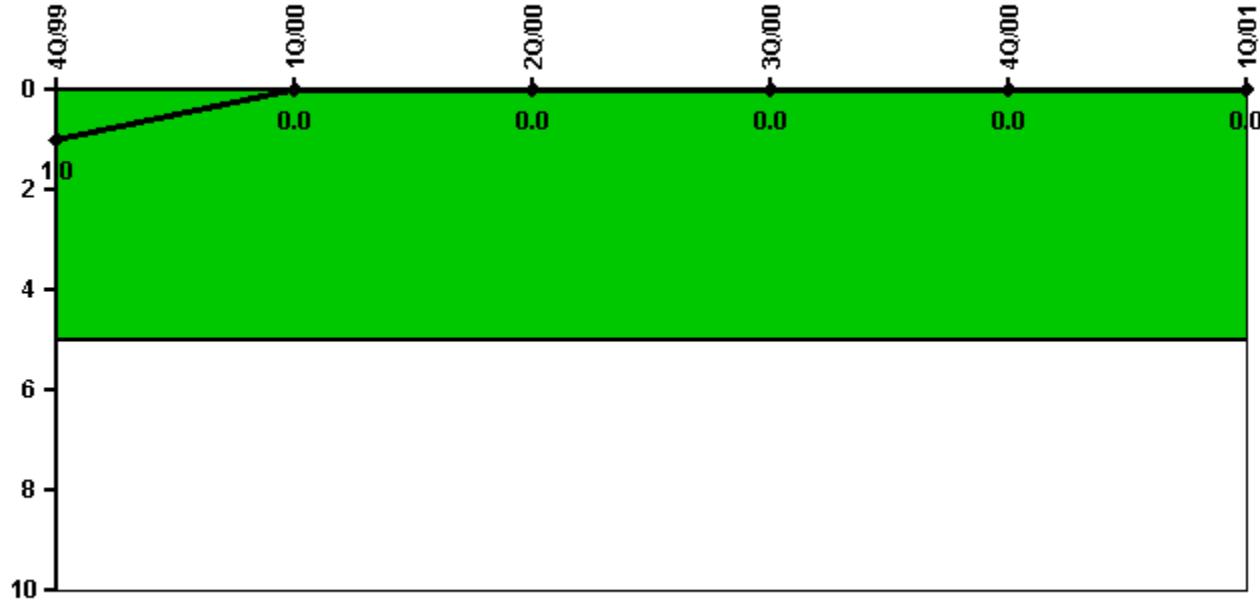
Notes

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	0	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	109.90	0	0	0	336.80
Train 2						
Planned unavailable hours	0	0	0	0	0	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	109.90	0	0	0	336.80
Train 3						
Planned unavailable hours	26.93	18.60	1.88	1.42	17.30	34.49
Unplanned unavailable hours	10.83	0	0	0	7.33	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2074.10	2183.00	2208.00	2209.00	1823.20
Train 4						
Planned unavailable hours	1.43	15.10	1.36	26.41	2.23	28.40
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	2209.00	2074.10	2183.00	2208.00	2209.00	1823.20
Indicator value	0.9%	0.8%	0.7%	0.7%	0.7%	0.7%

Licensee Comments: none

Safety System Functional Failures (PWR)



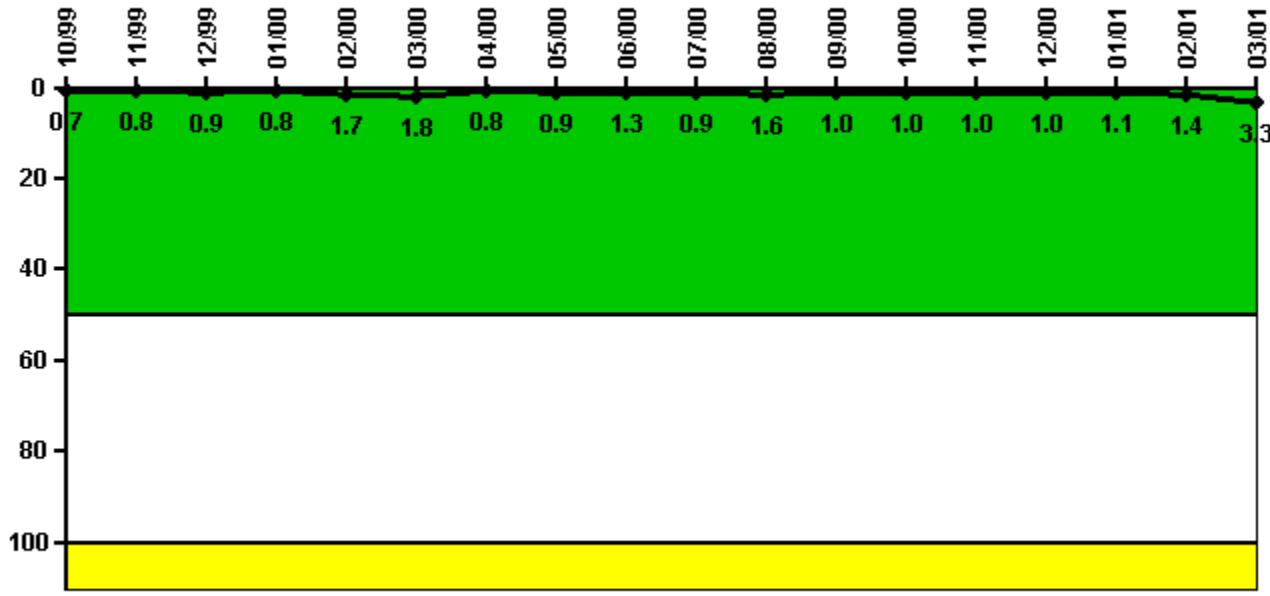
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

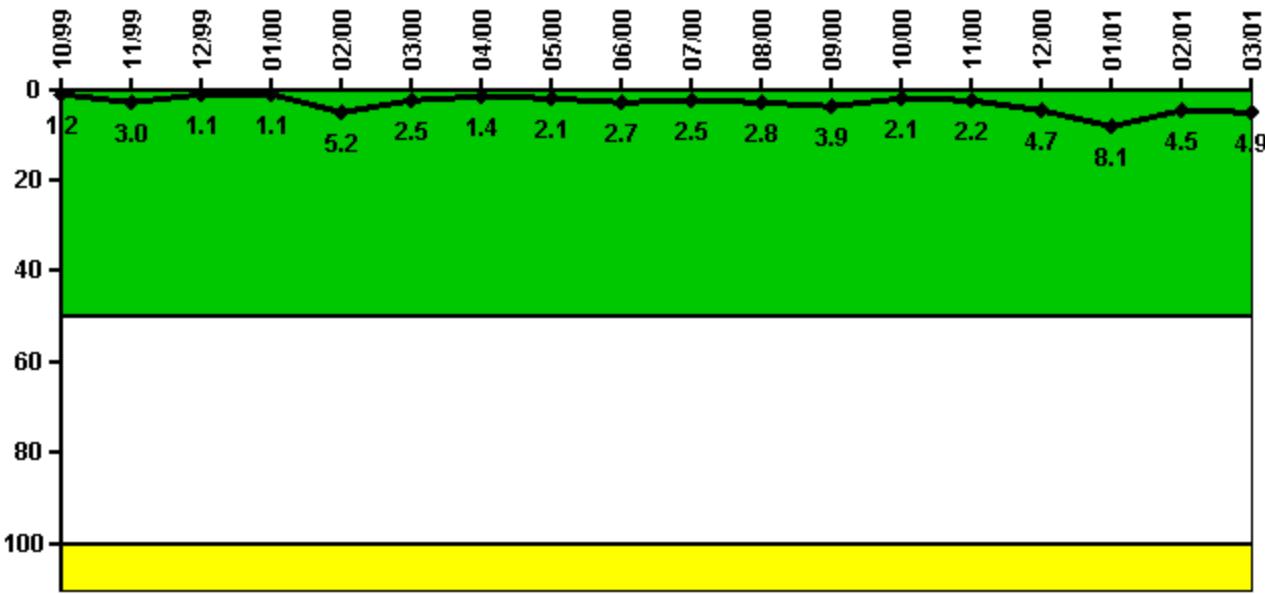
Notes

Reactor Coolant System Activity	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	0.006880	0.007570	0.008840	0.008020	0.017200	0.018400	0.008250	0.008750	0.012700	0.008910	0.016400	0.009940
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	0.7	0.8	0.9	0.8	1.7	1.8	0.8	0.9	1.3	0.9	1.6	1.0

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.009960	0.010200	0.010400	0.011200	0.013600	0.032800
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.0	1.0	1.0	1.1	1.4	3.3

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

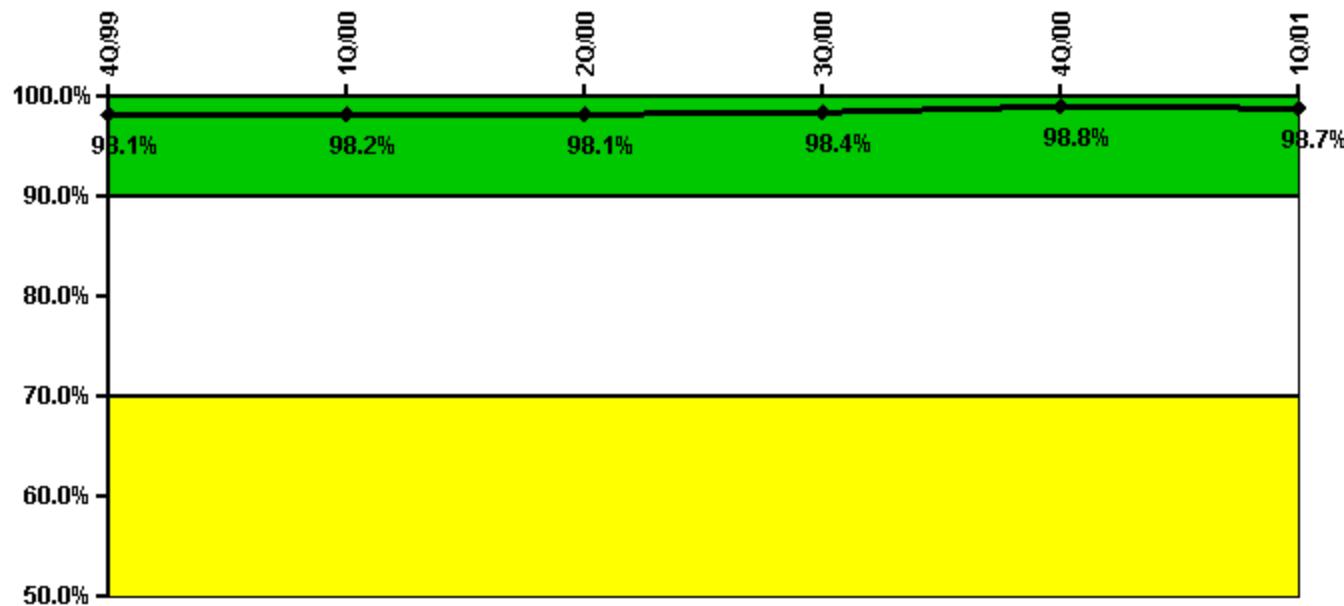
Notes

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	0.120	0.305	0.110	0.114	0.521	0.254	0.142	0.207	0.267	0.254	0.277	0.393
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	1.2	3.0	1.1	1.1	5.2	2.5	1.4	2.1	2.7	2.5	2.8	3.9

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	0.212	0.224	0.471	0.814	0.450	0.488
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.1	2.2	4.7	8.1	4.5	4.9

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	57.0	10.0	19.0	32.0	33.0	11.0
Total opportunities	59.0	10.0	19.0	33.0	33.0	11.0
Indicator value	98.1%	98.2%	98.1%	98.4%	98.8%	98.7%

Licensee Comments:

1Q/01: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised from 16 to 11. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

4Q/00: Previously submitted data for the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

3Q/00: Previously submitted data for the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

2Q/00: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised from 26 to 19. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

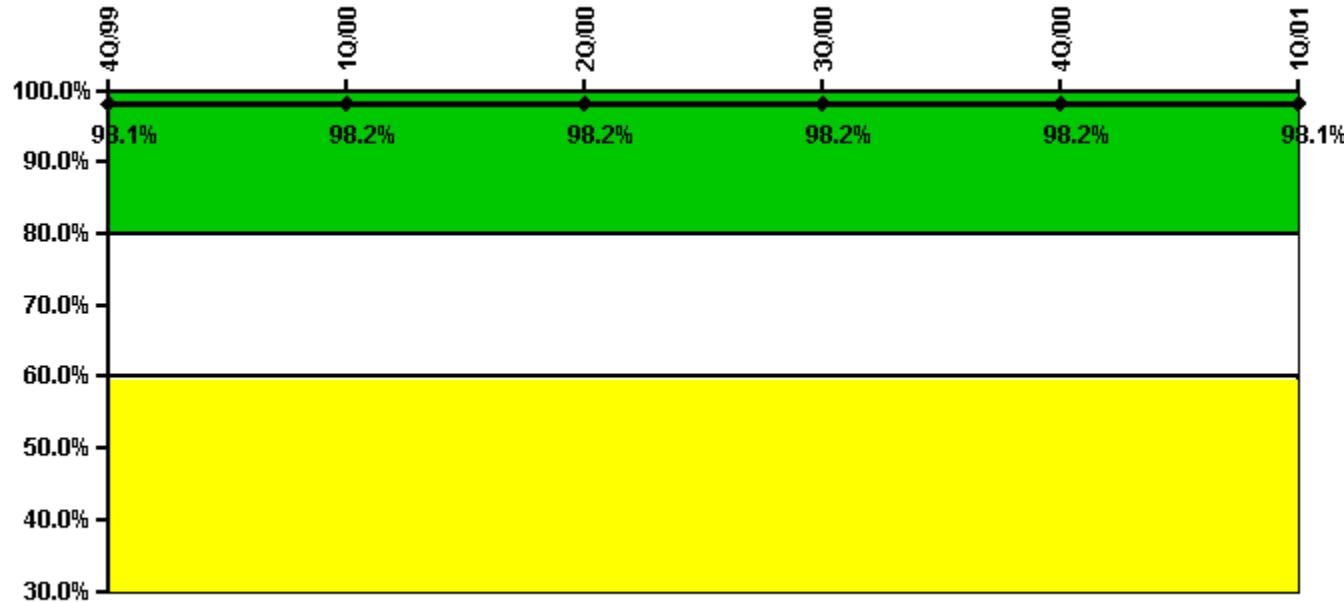
1Q/00: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of

opportunities during the quarter has been revised from 16 to 10. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

4Q/99: Previously submitted data for the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

3Q/99: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised from 50 to 34. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

ERO Drill Participation



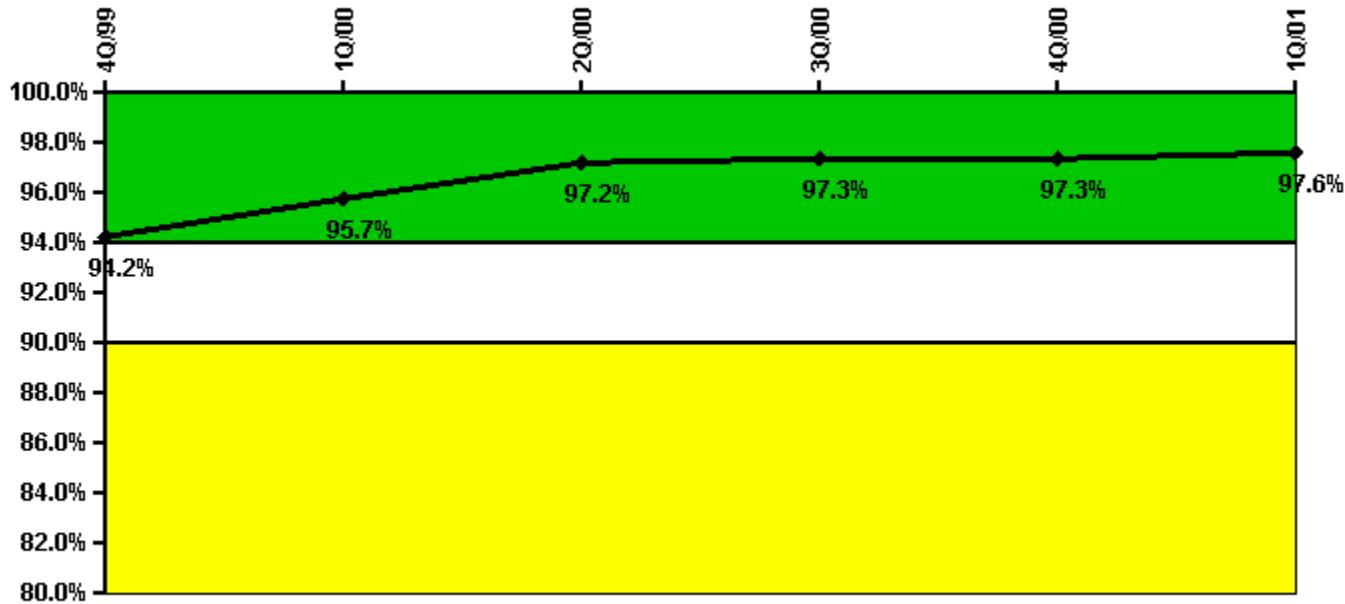
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Participating Key personnel	52.0	56.0	56.0	55.0	54.0	53.0
Total Key personnel	53.0	57.0	57.0	56.0	55.0	54.0
Indicator value	98.1%	98.2%	98.2%	98.2%	98.2%	98.1%

Licensee Comments: none

Alert & Notification System

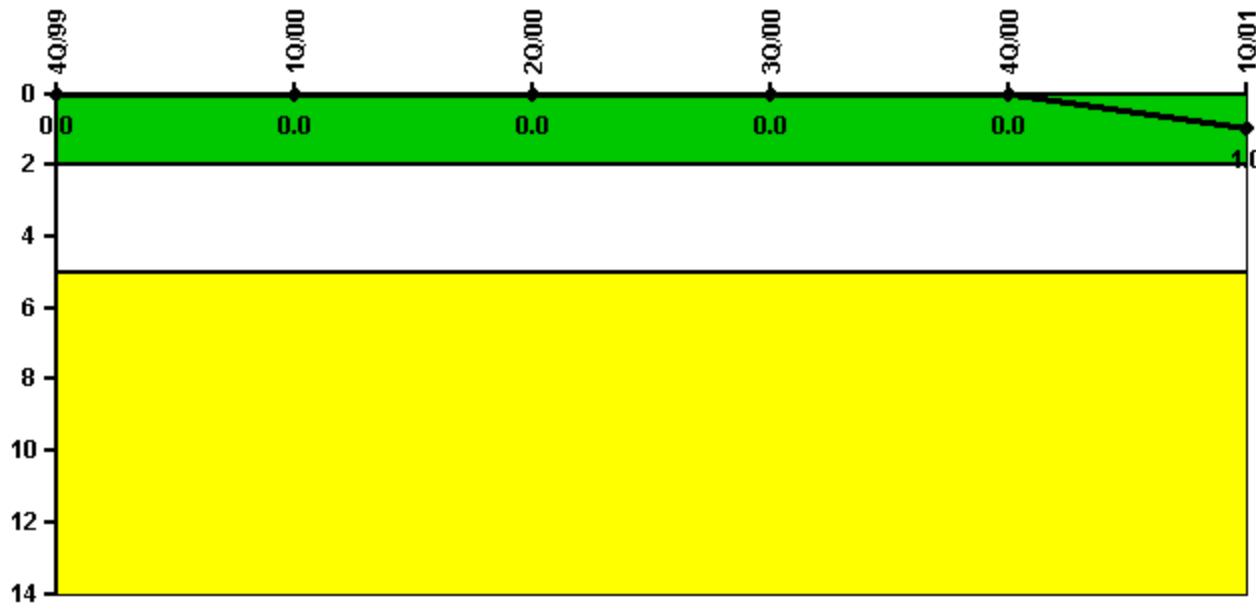


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful siren-tests	861	929	929	906	1039	990
Total sirens-tests	885	950	955	936	1068	1002
Indicator value	94.2%	95.7%	97.2%	97.3%	97.3%	97.6%

Licensee Comments: none

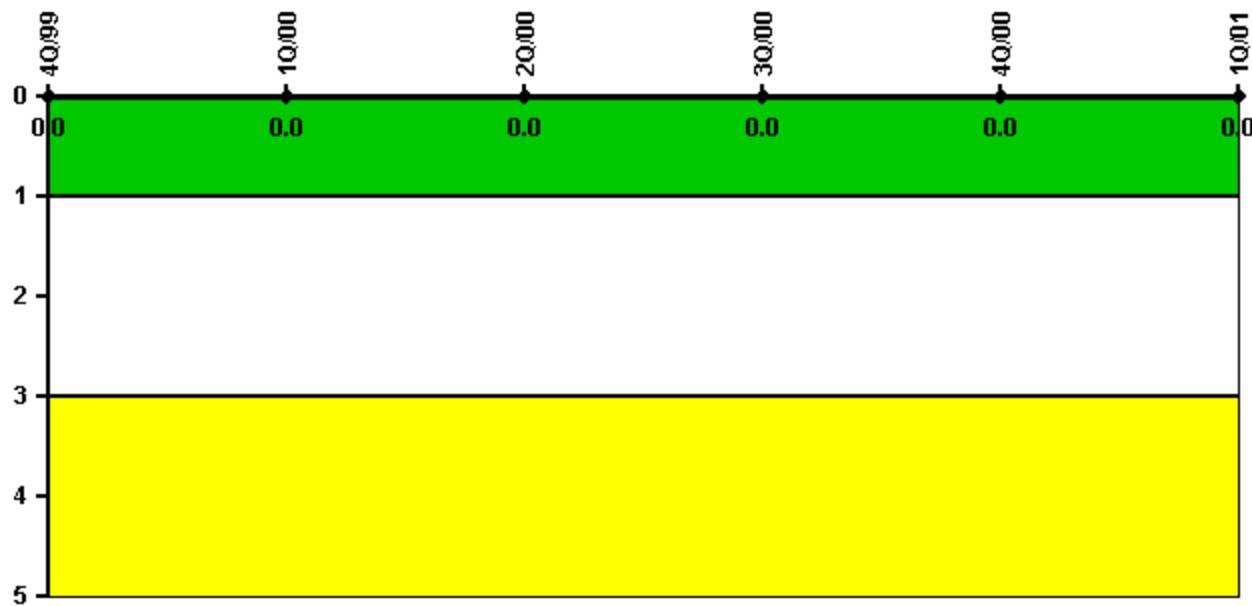
Occupational Exposure Control Effectiveness

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	1
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	1

Licensee Comments: none

RETS/ODCM Radiological Effluent

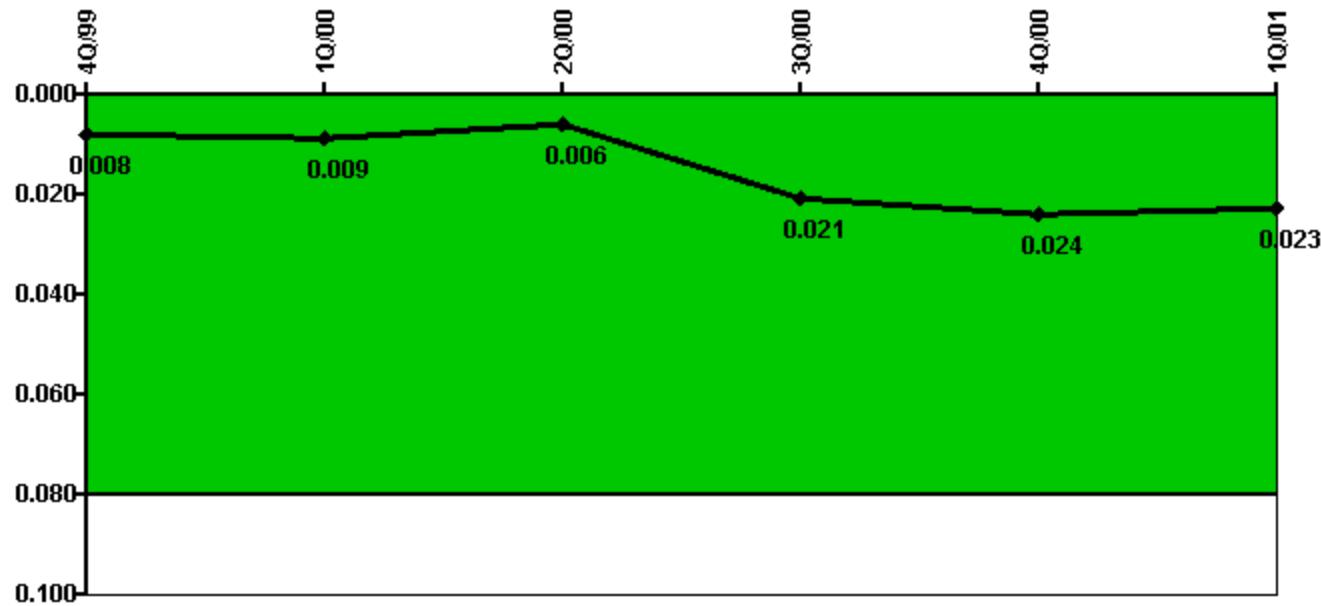
Thresholds: White > 1.0 Yellow > 3.0

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	50.10	46.00	38.60	390.70	116.70	14.80
CCTV compensatory hours	0	0	0	0	0	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2	1.2
Index Value	0.008	0.009	0.006	0.021	0.024	0.023

Licensee Comments: none

Personnel Screening Program

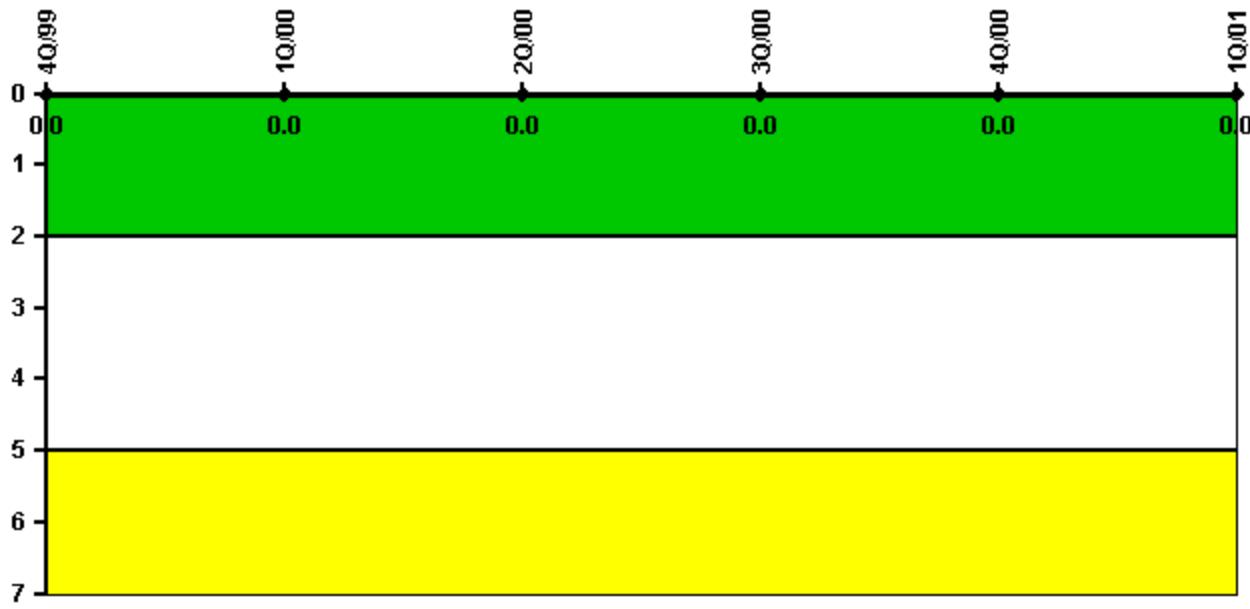


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

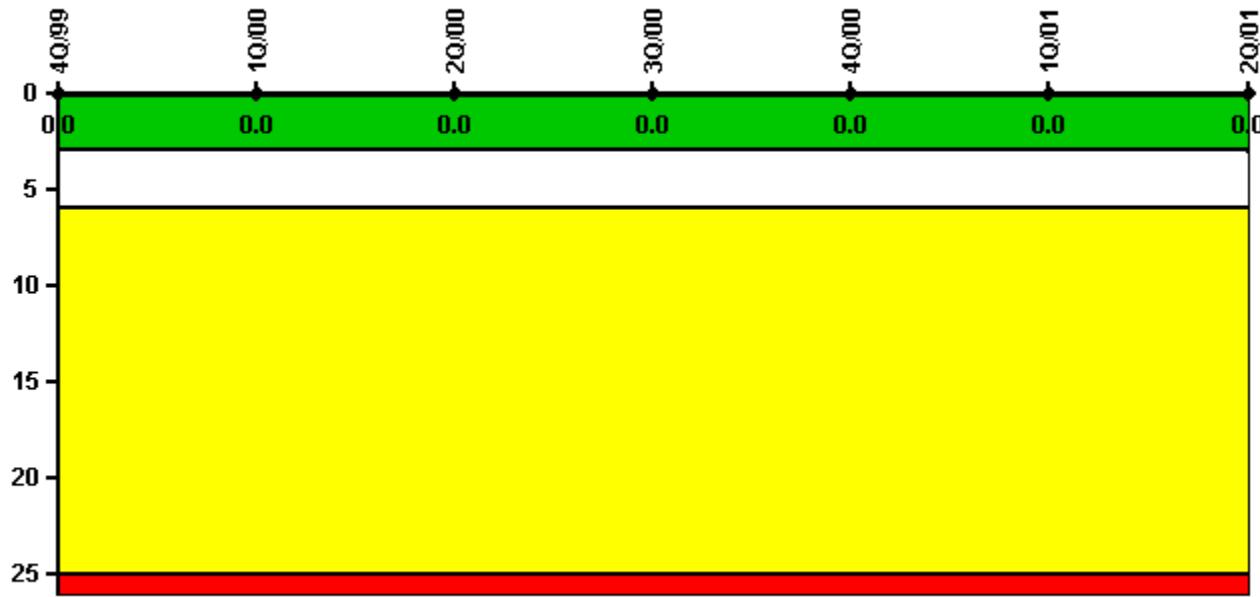


[PI Summary](#) | [Inspection Findings Summary](#) | [Action Matrix Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 28, 2002

Calvert Cliffs 2**2Q/2001 Performance Indicators**

Licensee's General Comments: none

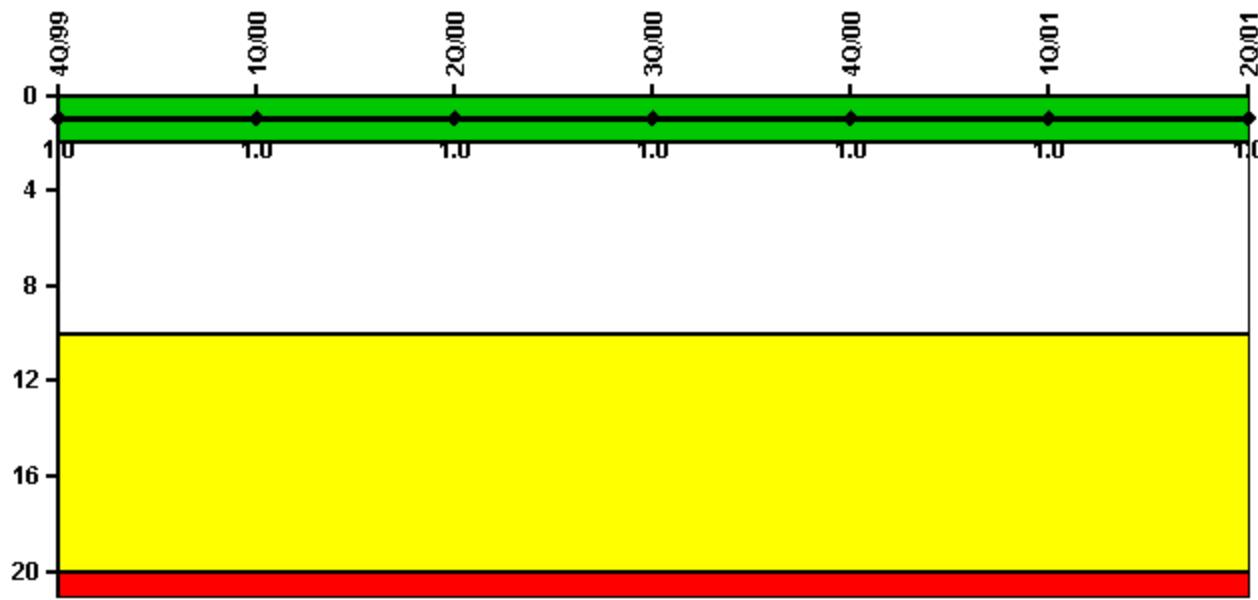
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	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	2209.0	2019.8	2183.0	2208.0	2209.0	1800.0	1163.4
Indicator value	0	0	0	0	0	0	0

Licensee Comments: none

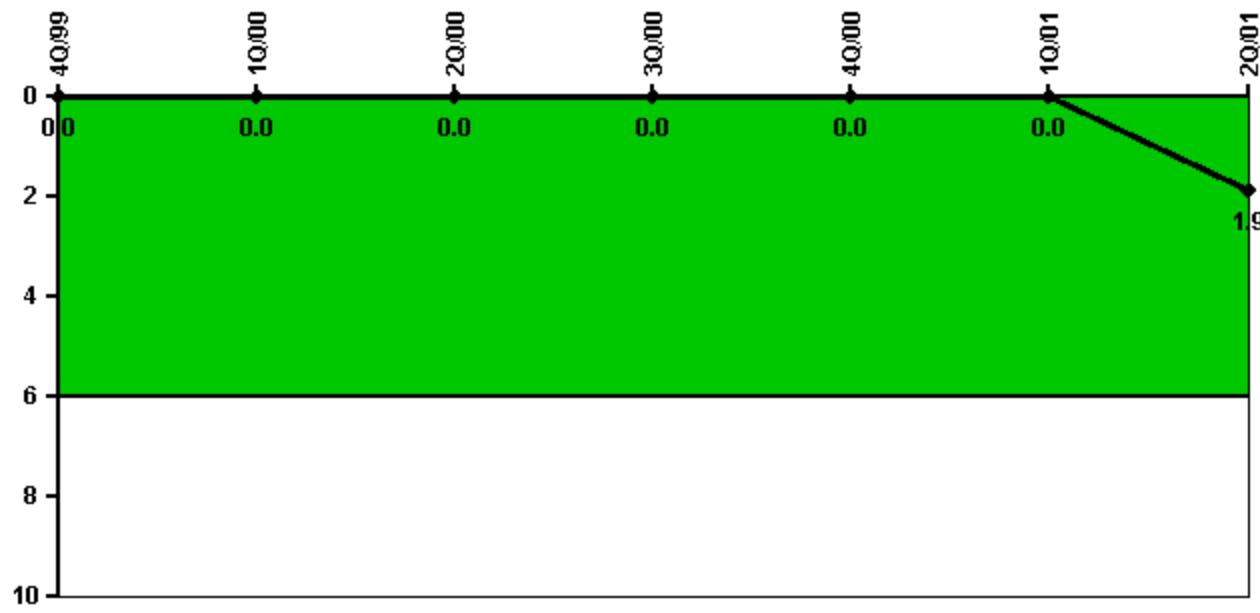
Scrams with Loss of Normal Heat Removal

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
Scrams	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

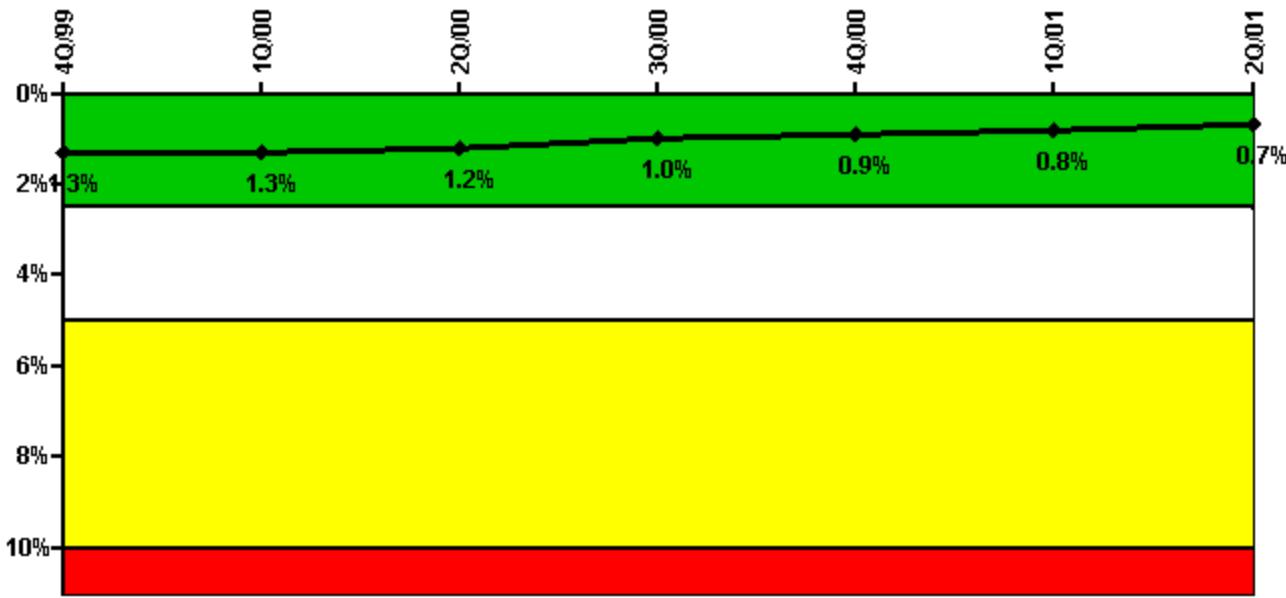
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned power changes	0	0	0	0	0	0	2.0
Critical hours	2209.0	2019.8	2183.0	2208.0	2209.0	1800.0	1163.4
Indicator value	0	0	0	0	0	0	1.9

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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	2.15	31.00	0	0	0	15.33	0.83
Unplanned unavailable hours	10.83	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	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	0.12	13.38	0	0	0.50	37.40	0
Unplanned unavailable hours	8.40	0	0	0	0	0.25	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	1.3%	1.3%	1.2%	1.0%	0.9%	0.8%	0.7%

Licensee Comments:

1Q/01: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

4Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

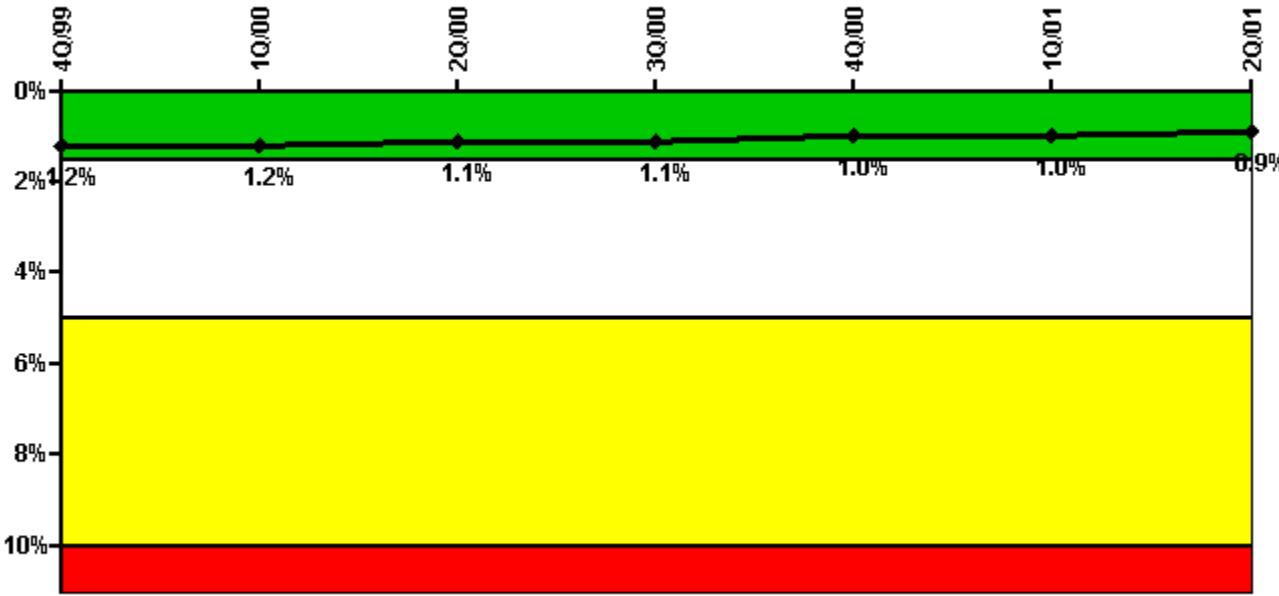
3Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that

were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

2Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

1Q/00: This change removes planned unavailable hours in 1Q/2000 through 1Q/2001 for trains 1 and 2 of the Emergency AC Power system that were previously submitted that accounted for unavailable hours incurred during emergency diesel generator (EDG) testing when performing air barring of the EDG. Calvert Cliffs has reversed its decision and has determined that air barring of the EDG during testing does not render the EDG unavailable because restoration actions are virtually certain to be successful during accident conditions. Excluding air barring as a cause of planned unavailable hours during EDG testing meets all requirements in NEI 99-02. The change does not affect the "color" of the indicator.

Safety System Unavailability, High Pressure Injection System (HPSI)



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

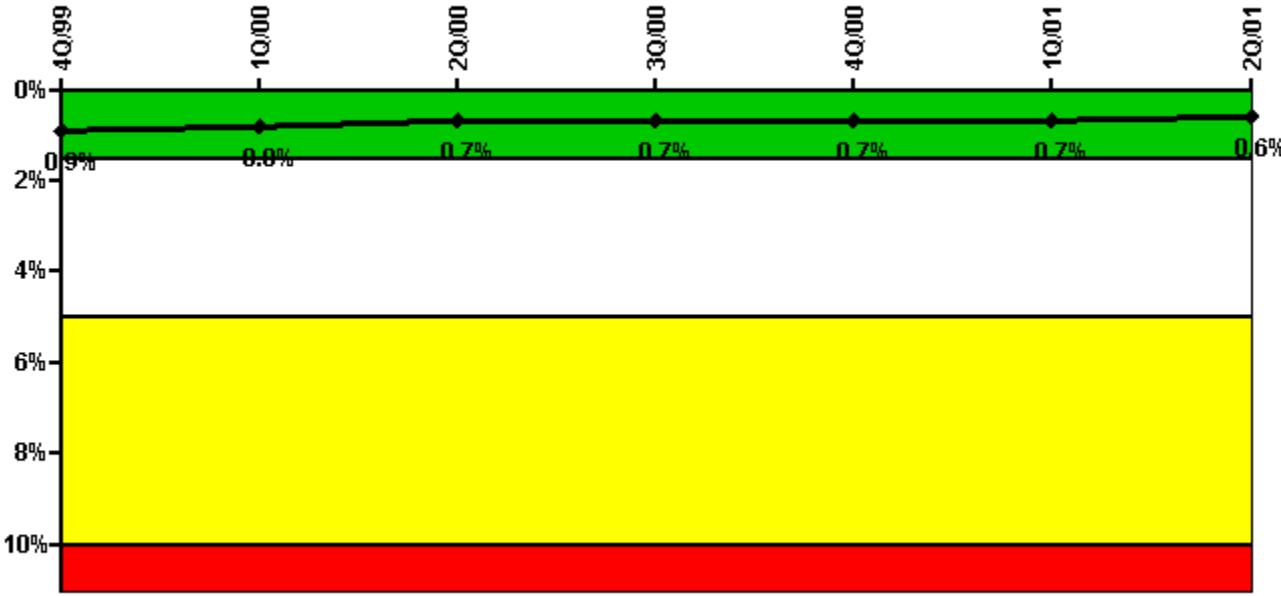
Notes

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		18.03	17.50	0.54	1.35	15.63	36.34	1.54
Unplanned unavailable hours		10.83	0	0	0	7.33	0	0
Fault exposure hours		0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0
Required hours		2209.00	2019.80	2183.00	2208.00	2209.00	1800.00	1163.30
Train 2								
Planned unavailable hours		1.66	12.84	0.62	26.17	1.13	19.27	1.54

Planned unavailable hours	11.00	0	1.50	5.23	3.83	0	31.95
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	2209.00	2019.80	2183.00	2208.00	2209.00	1800.00	1163.30
Indicator value	0.6%	0.5%	0.5%	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%

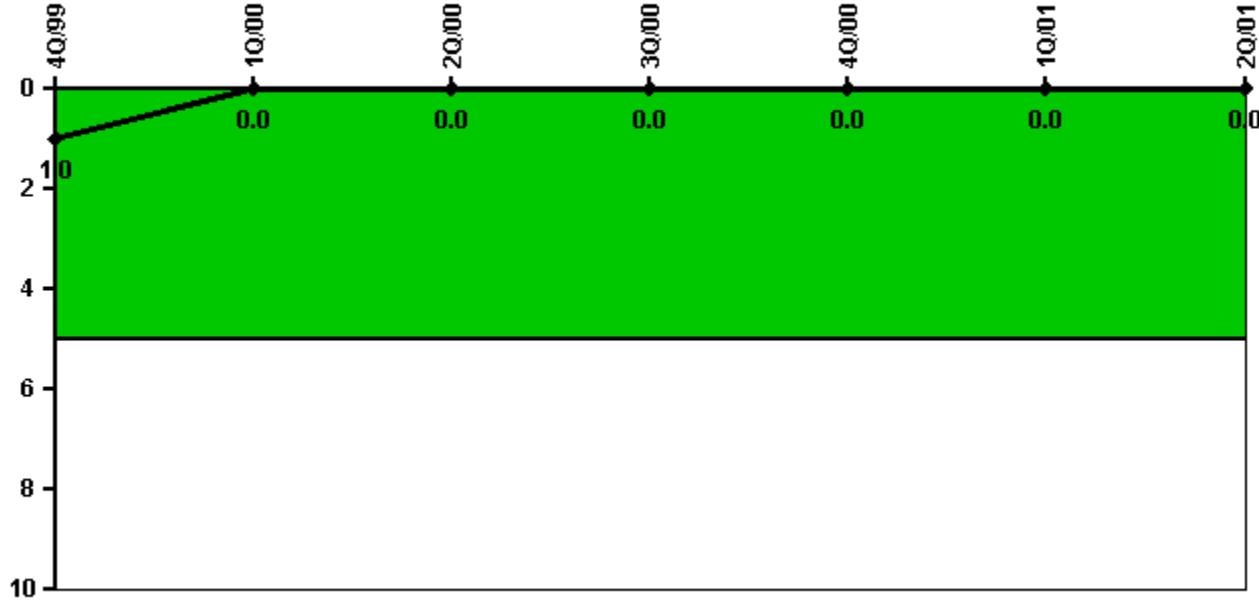
Notes

Safety System Unavailability, Residual Heat Removal System							
	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	0	0	0	0	0	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	109.90	0	0	0	336.80	935.40
Train 2							
Planned unavailable hours	0	0	0	0	0	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	109.90	0	0	0	336.80	935.40

Train 3							
Planned unavailable hours	26.93	18.60	1.88	1.42	17.30	34.49	4.24
Unplanned unavailable hours	10.83	0	0	0	7.33	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2074.10	2183.00	2208.00	2209.00	1823.20	1247.60
Train 4							
Planned unavailable hours	1.43	15.10	1.36	26.41	2.23	28.40	4.52
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	2209.00	2074.10	2183.00	2208.00	2209.00	1823.20	1247.60
Indicator value	0.9%	0.8%	0.7%	0.7%	0.7%	0.7%	0.6%

Licensee Comments: none

Safety System Functional Failures (PWR)



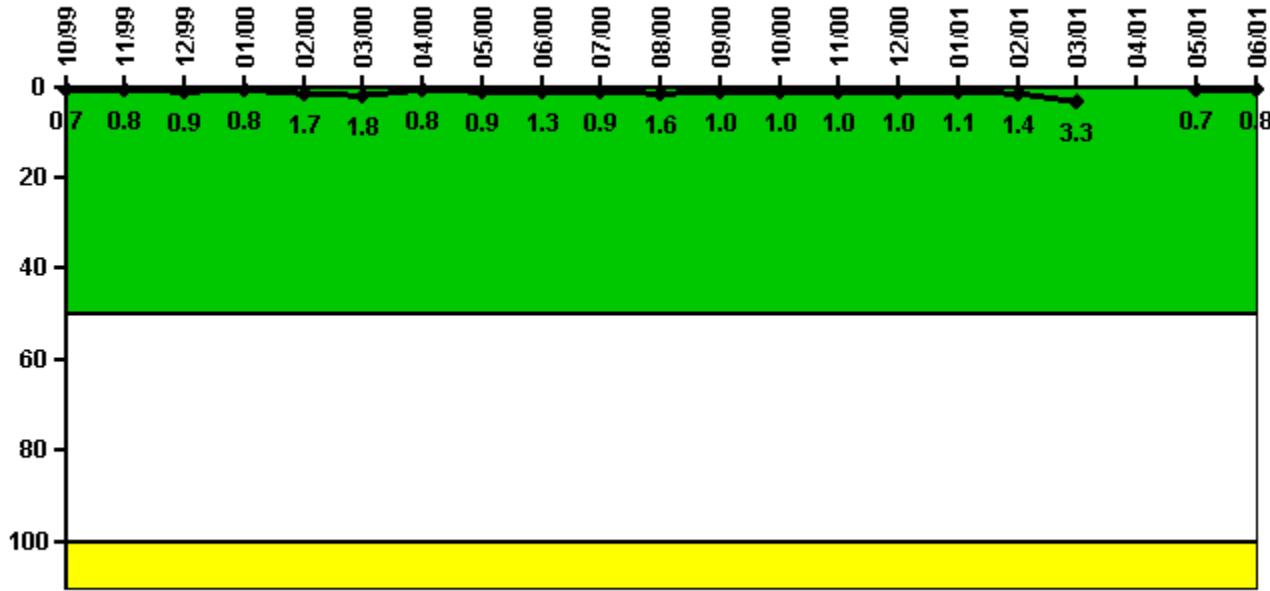
Thresholds: White > 5.0

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	0	0	0	0	0	0
Indicator value	1	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

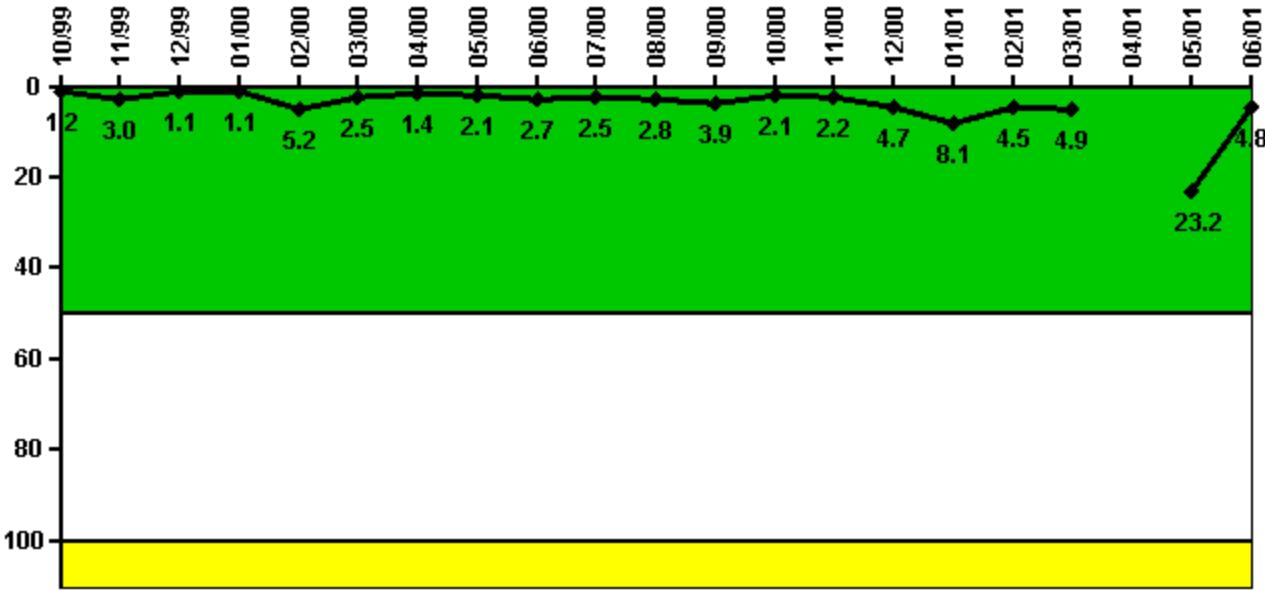
Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.006880	0.007570	0.008840	0.008020	0.017200	0.018400	0.008250	0.008750	0.012700	0.008910	0.016400	0.009940
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.7	0.8	0.9	0.8	1.7	1.8	0.8	0.9	1.3	0.9	1.6	1.0

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.009960	0.010200	0.010400	0.011200	0.013600	0.032800	N/A	0.007460	0.007800
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.0	1.0	1.0	1.1	1.4	3.3	N/A	0.7	0.8

Licensee Comments:

6/01: Reactor Coolant System Activity data for April 2001 is not available due to plant conditions that did not require this data to be calculated. In this case, Unit 2 was shutdown for a planned refueling outage for the entire month.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

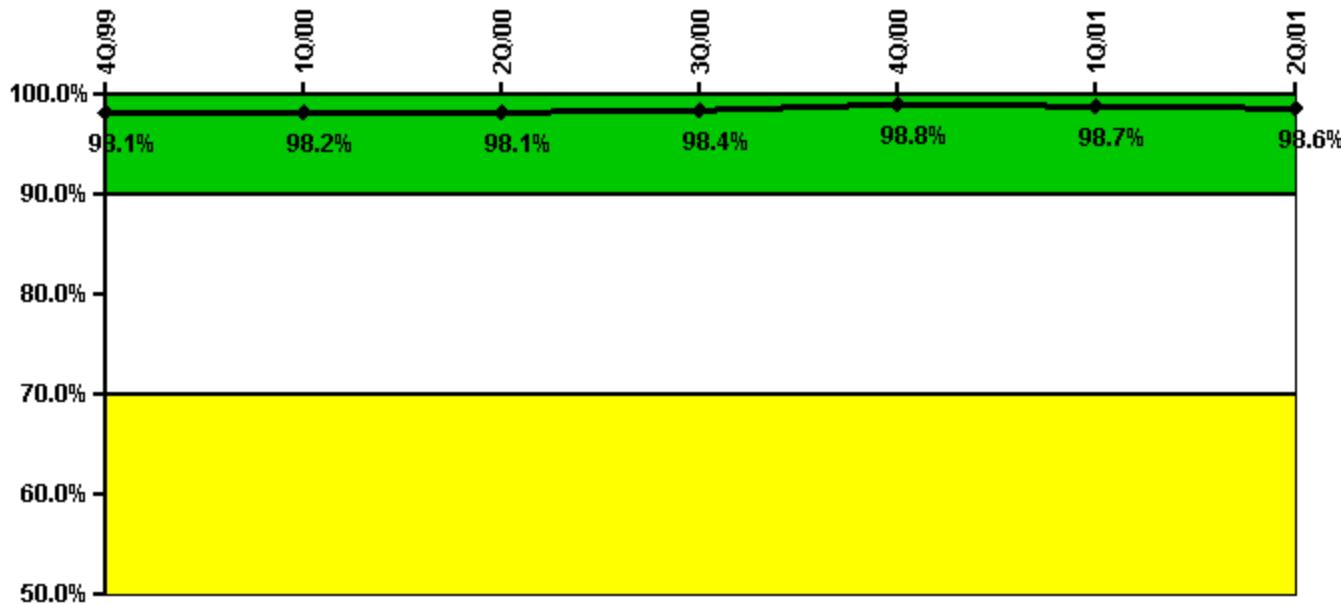
Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.120	0.305	0.110	0.114	0.521	0.254	0.142	0.207	0.267	0.254	0.277	0.393
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.2	3.0	1.1	1.1	5.2	2.5	1.4	2.1	2.7	2.5	2.8	3.9

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	0.212	0.224	0.471	0.814	0.450	0.488	N/A	2.320	0.480
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.1	2.2	4.7	8.1	4.5	4.9	N/A	23.2	4.8

Licensee Comments:

6/01: Reactor Coolant System identified leak rate data for April 2001 is not available due to plant conditions that did not require this data to be calculated. In this case, Unit 2 was shutdown for a planned refueling outage for the entire month.

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	57.0	10.0	19.0	32.0	33.0	11.0	22.0
Total opportunities	59.0	10.0	19.0	33.0	33.0	11.0	22.0
Indicator value	98.1%	98.2%	98.1%	98.4%	98.8%	98.7%	98.6%

Licensee Comments:

1Q/01: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised from 16 to 11. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

4Q/00: Previously submitted data for the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

3Q/00: Previously submitted data for the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

2Q/00: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised from 26 to 19. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

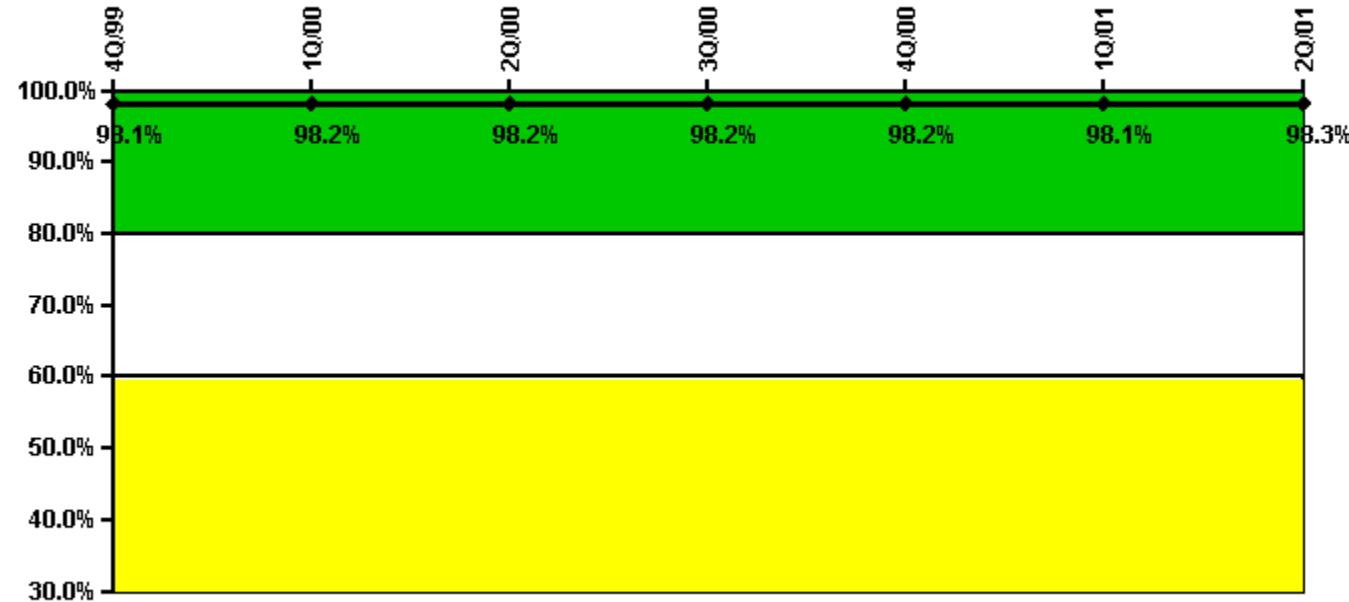
1Q/00: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of

opportunities during the quarter has been revised from 16 to 10. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

4Q/99: Previously submitted data for the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

3Q/99: Previously submitted data for both the number of opportunities performed timely and accurately during the quarter, and the number of opportunities during the quarter has been revised from 50 to 34. This change is necessary following discovery that previously reported data included data regarding licensed operators who participated in evaluated scenarios in the role of Shift Manager or Shift Manager Alternate to maintain active Reactor Operator and Senior Reactor Operator licenses, who were not designated as qualified Shift Managers and Shift Manager Alternates. The time periods affected by this change include 3Q/1999 through 1Q/2001. This change does not affect the color of this indicator.

ERO Drill Participation



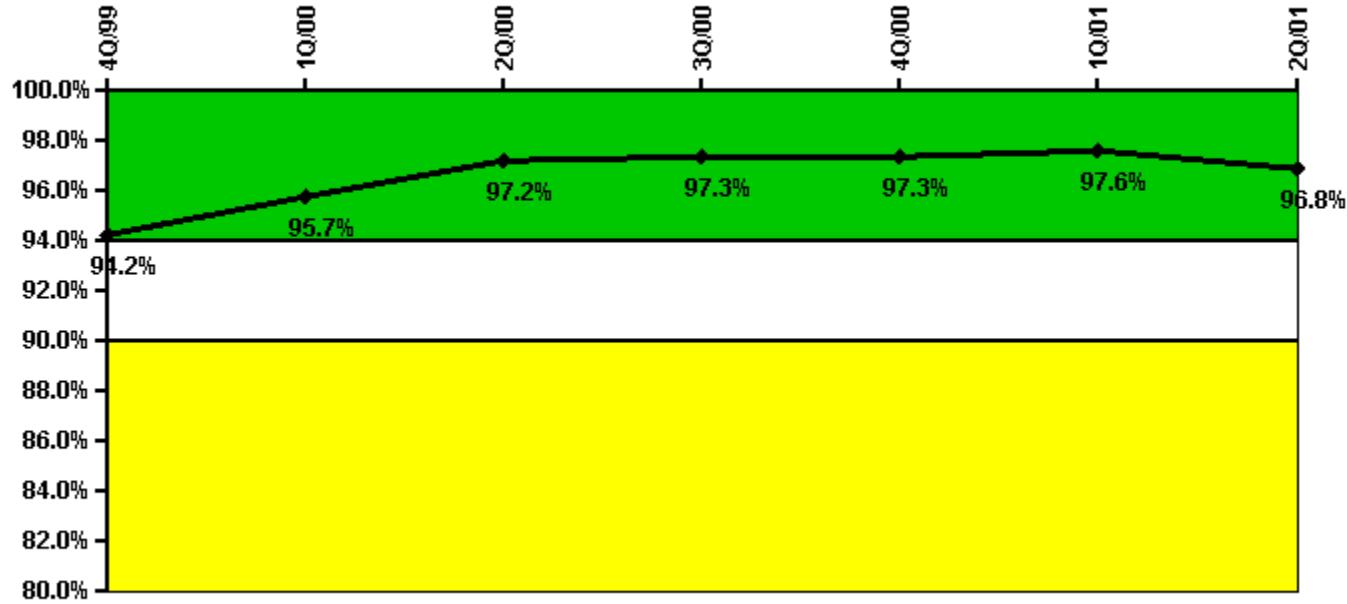
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Participating Key personnel	52.0	56.0	56.0	55.0	54.0	53.0	59.0
Total Key personnel	53.0	57.0	57.0	56.0	55.0	54.0	60.0
Indicator value	98.1%	98.2%	98.2%	98.2%	98.2%	98.1%	98.3%

Licensee Comments: none

Alert & Notification System

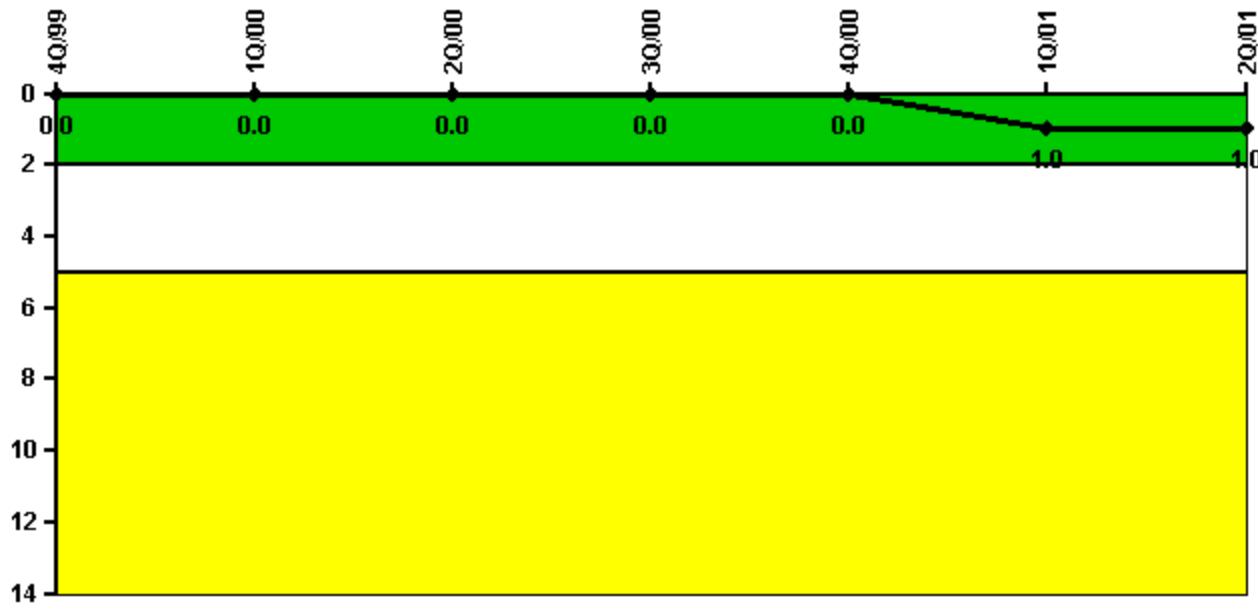


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Successful siren-tests	861	929	929	906	1039	990	944
Total sirens-tests	885	950	955	936	1068	1002	1002
Indicator value	94.2%	95.7%	97.2%	97.3%	97.3%	97.6%	96.8%

Licensee Comments: none

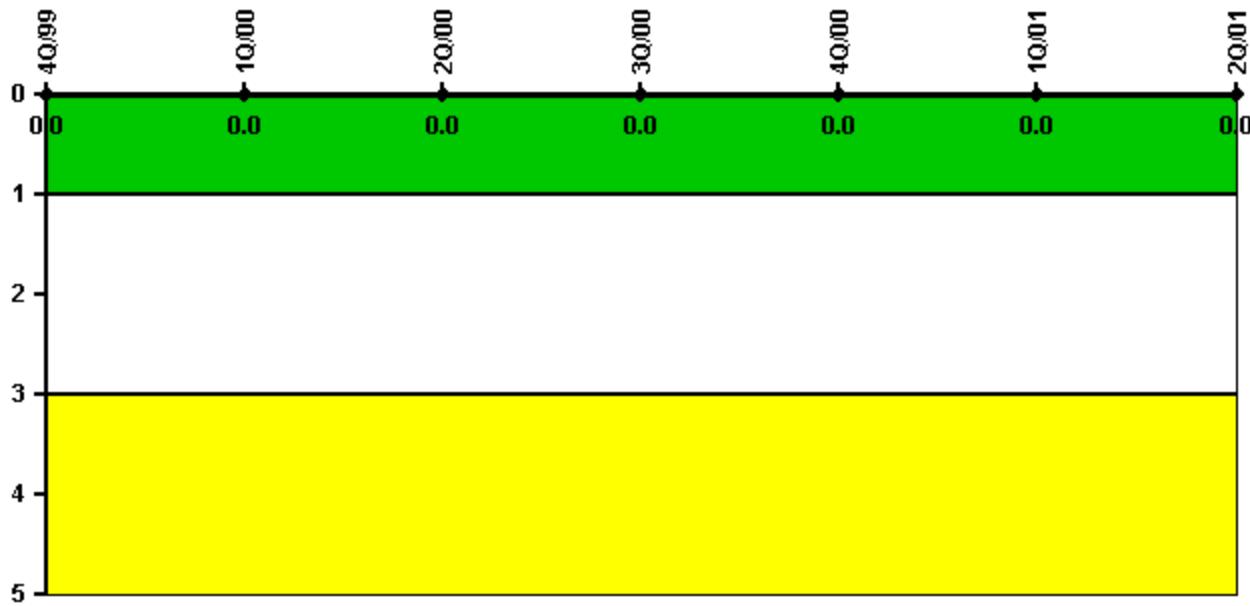
Occupational Exposure Control Effectiveness

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	1	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	1	1

Licensee Comments: none

RETS/ODCM Radiological Effluent

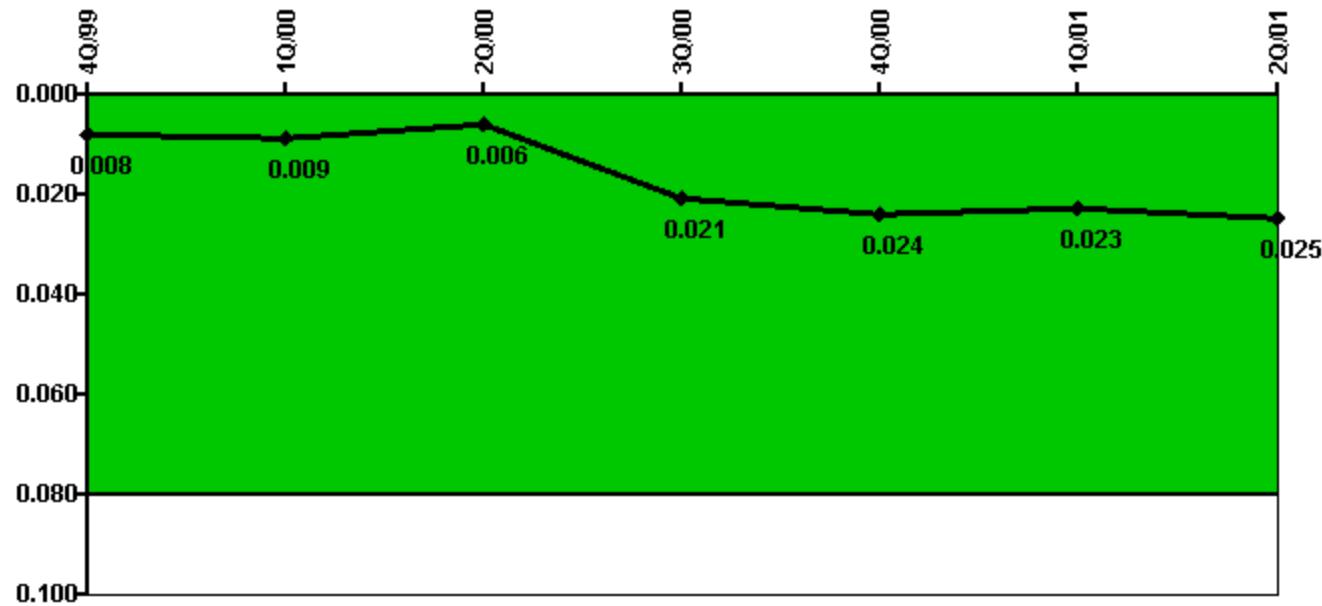
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
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



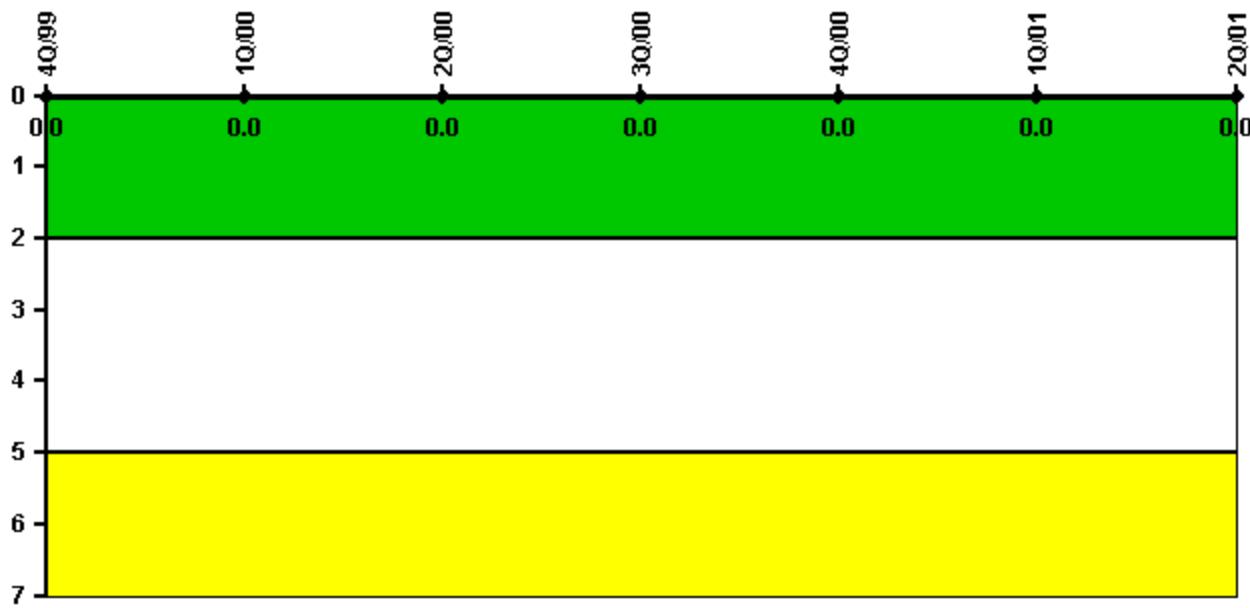
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
IDS compensatory hours	50.10	46.00	38.60	390.70	116.70	14.80	85.60
CCTV compensatory hours	0	0	0	0	0	0	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Index Value	0.008	0.009	0.006	0.021	0.024	0.023	0.025

Licensee Comments: none

Personnel Screening Program

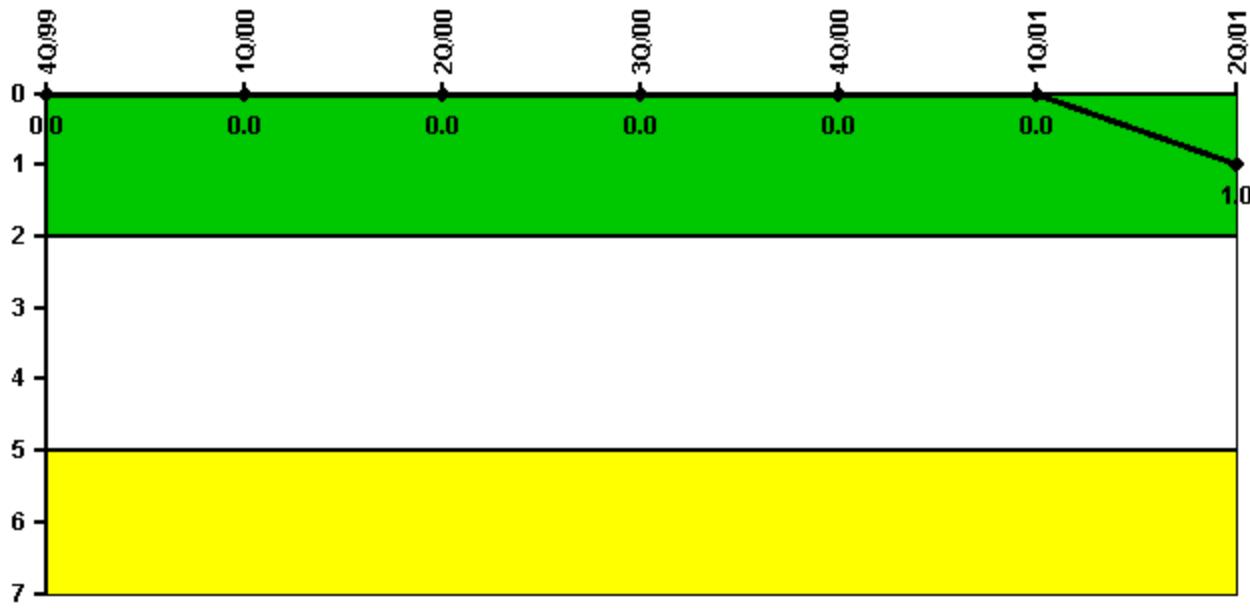


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments:

2Q/01: A reportable event occurred in May 2001, which was inadvertently omitted from the 2Q/2001 indicator report. This change does not change the color of the indicator.

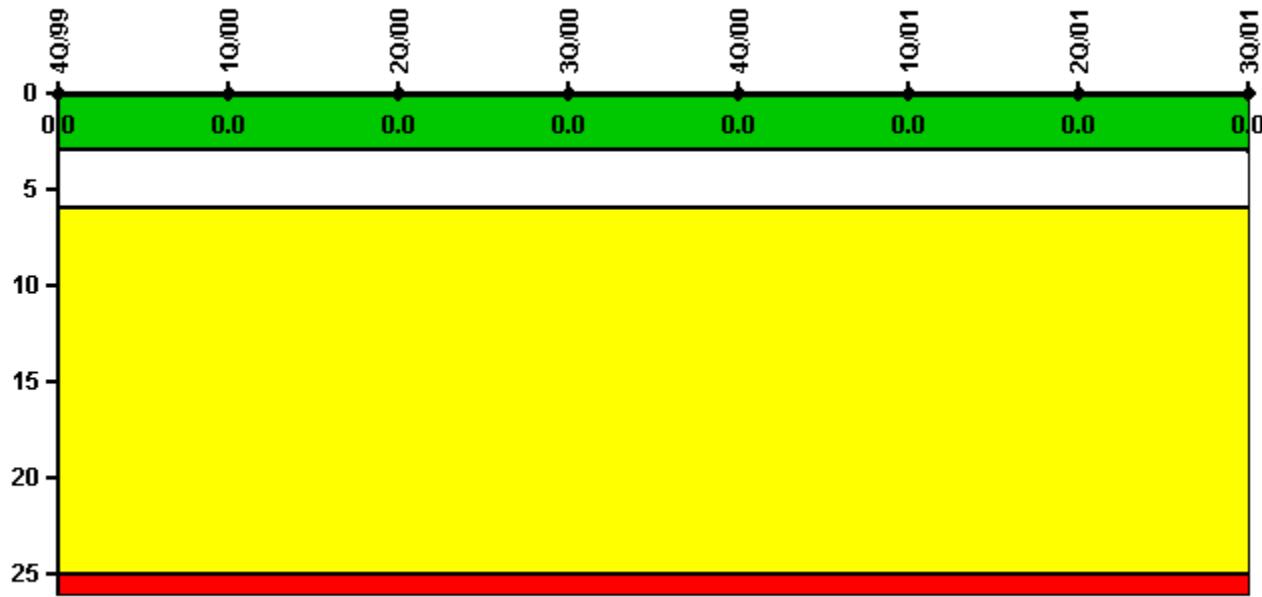


[PI Summary](#) | [Inspection Findings Summary](#) | [Action Matrix Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 27, 2002

Calvert Cliffs 2**3Q/2001 Performance Indicators**

Licensee's General Comments: none

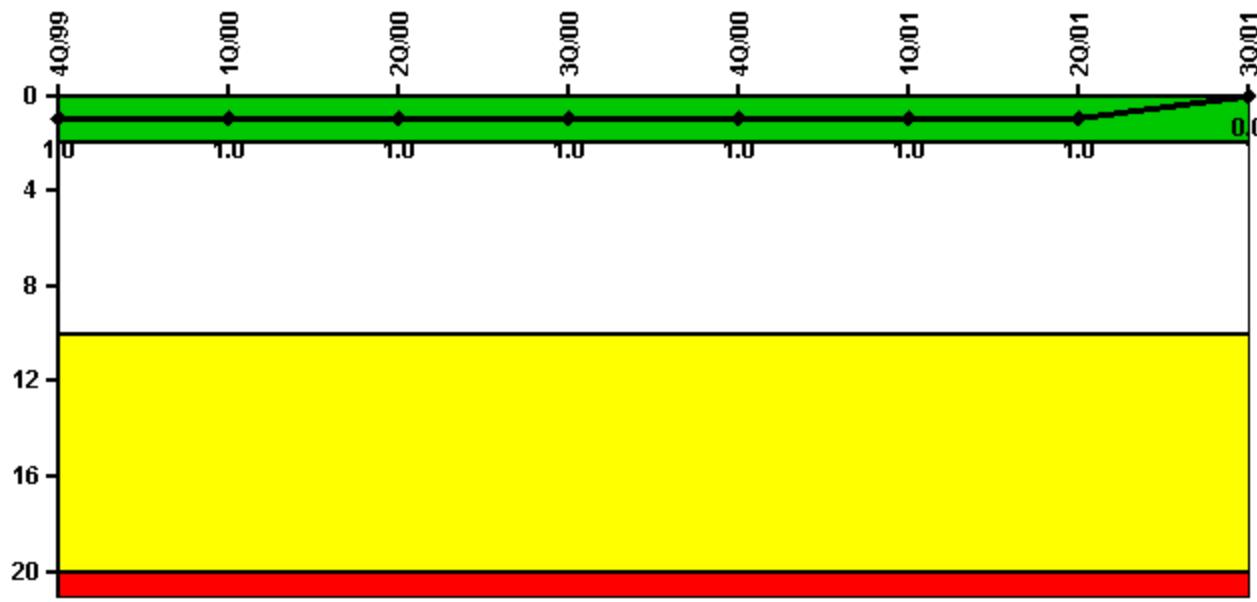
Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	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	2209.0	2019.8	2183.0	2208.0	2209.0	1800.0	1163.4	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

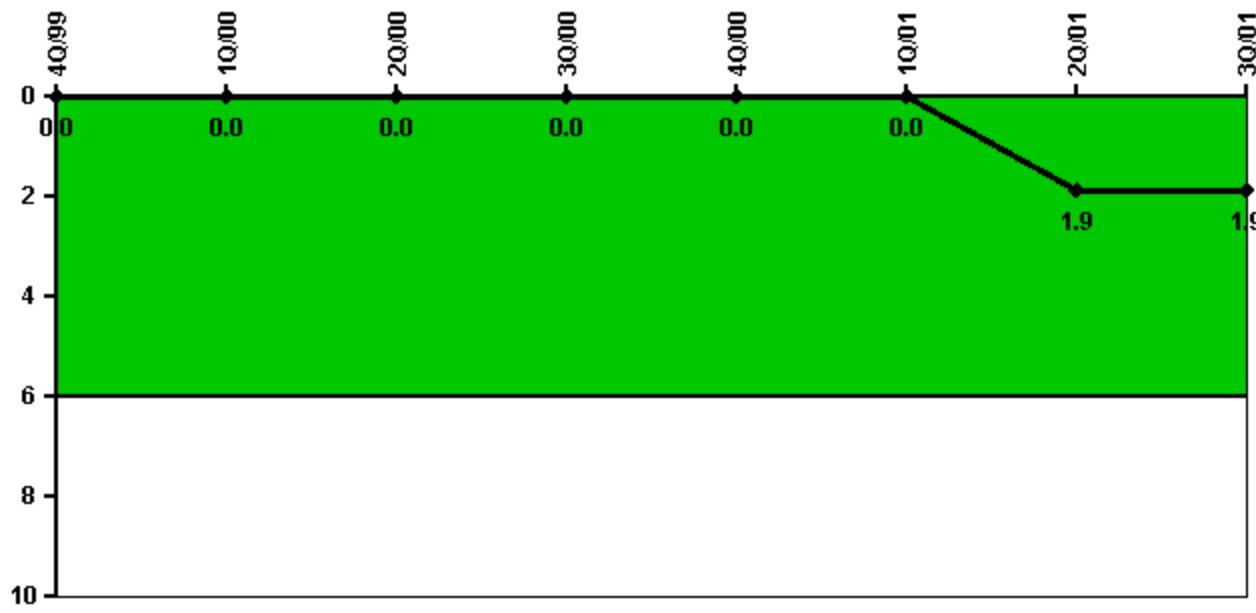
Scrams with Loss of Normal Heat Removal

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	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

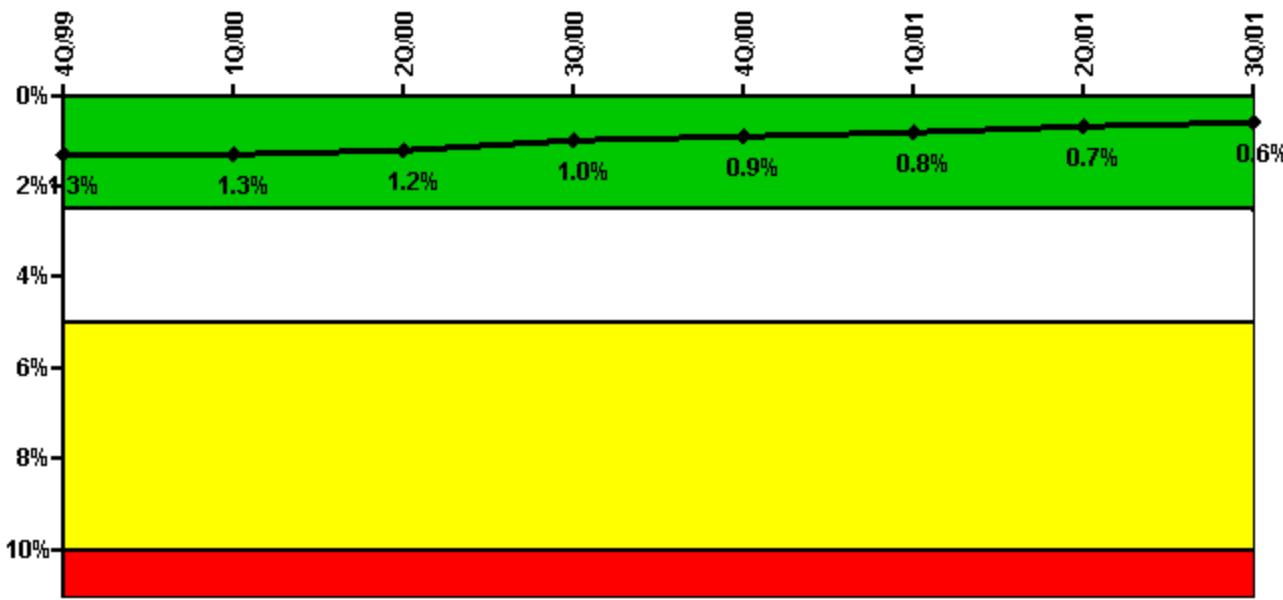
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned power changes	0	0	0	0	0	0	2.0	0
Critical hours	2209.0	2019.8	2183.0	2208.0	2209.0	1800.0	1163.4	2208.0
Indicator value	0	0	0	0	0	0	1.9	1.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



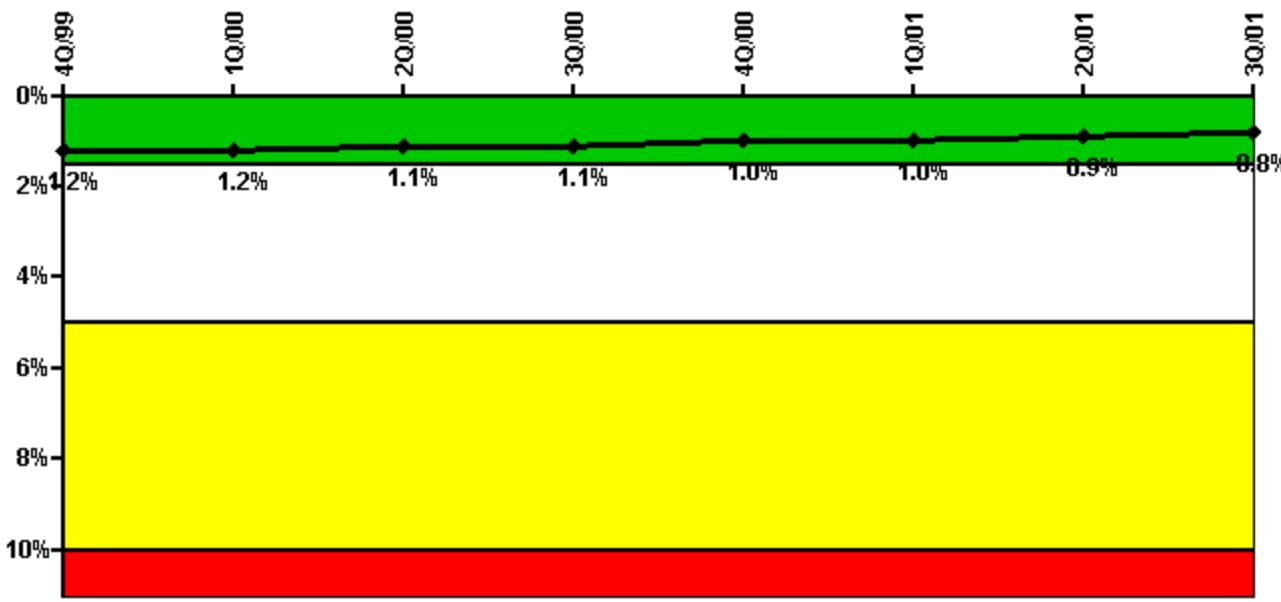
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	2.15	31.00	0	0	0	15.33	0.83	34.50
Unplanned unavailable hours	10.83	0	0	0	0	0	0	17.27
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	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0.12	13.38	0	0	0.50	37.40	0	0
Unplanned unavailable hours	8.40	0	0	0	0	0.25	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	2209.00	2160.00	2183.00	2208.00
Indicator value	1.3%	1.3%	1.2%	1.0%	0.9%	0.8%	0.7%	0.6%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



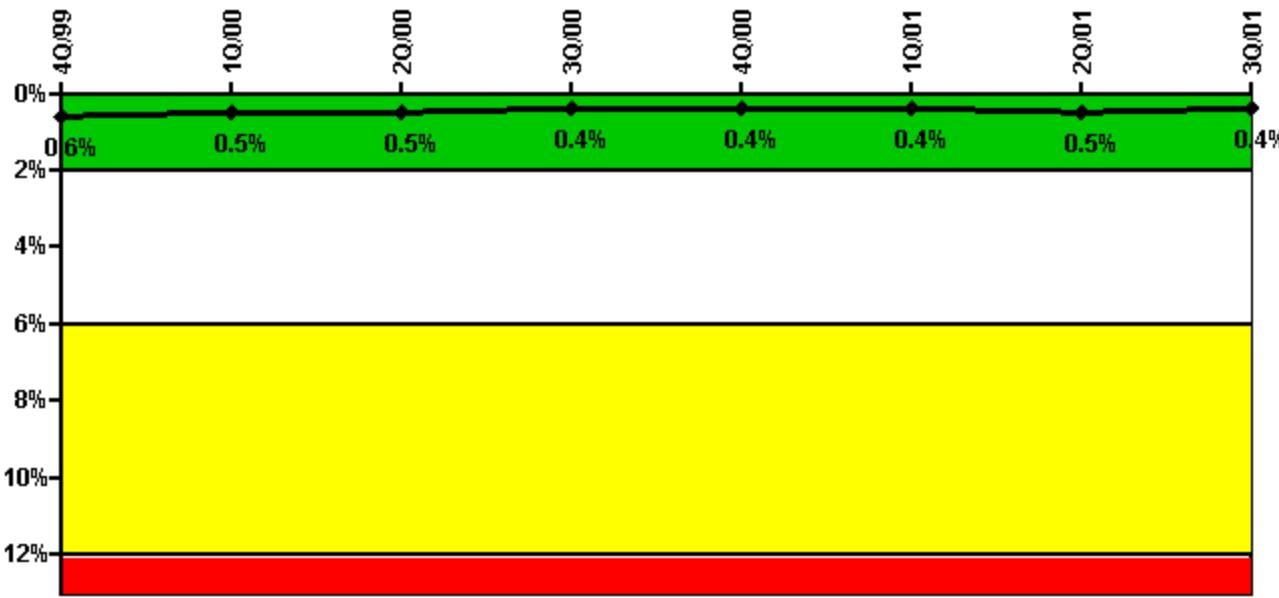
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	18.03	17.50	0.54	1.35	15.63	36.34	1.54	0.27
Unplanned unavailable hours	10.83	0	0	0	7.33	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	2209.00	2019.80	2183.00	2208.00	2209.00	1800.00	1163.30	2208.00
Train 2								
Planned unavailable hours	1.66	12.84	0.62	26.17	1.13	19.27	1.54	17.47
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	2019.80	2183.00	2208.00	2209.00	1800.00	1163.30	2208.00
Indicator value	1.2%	1.2%	1.1%	1.1%	1.0%	1.0%	0.9%	0.8%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



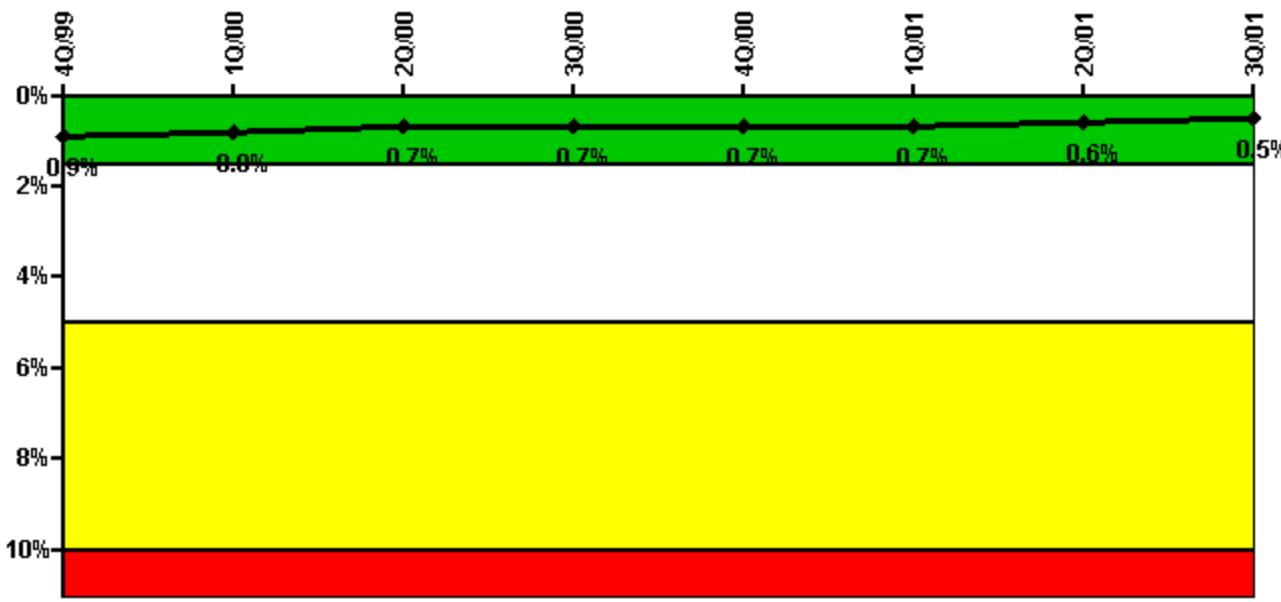
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)		4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1									
Planned unavailable hours		9.25	1.00	1.00	1.00	2.75	2.33	18.04	8.91
Unplanned unavailable hours		0	5.12	0	0	0	0	0	6.58
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2209.00	2019.80	2183.00	2208.00	2209.00	1800.00	1163.30	2208.00
Train 2									
Planned unavailable hours		9.25	1.00	1.00	1.00	2.75	2.33	22.28	13.67
Unplanned unavailable hours		0	5.12	0	0	0	0	0	6.58
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2209.00	2019.80	2183.00	2208.00	2209.00	1800.00	1163.30	2208.00
Train 3									
Planned unavailable hours		11.00	0	1.50	5.23	3.83	0	31.95	38.92
Unplanned unavailable hours		0	0	0	0	0	0	0	0.58
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2209.00	2019.80	2183.00	2208.00	2209.00	1800.00	1163.30	2208.00
Indicator value		0.6%	0.5%	0.5%	0.4%	0.4%	0.4%	0.5%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



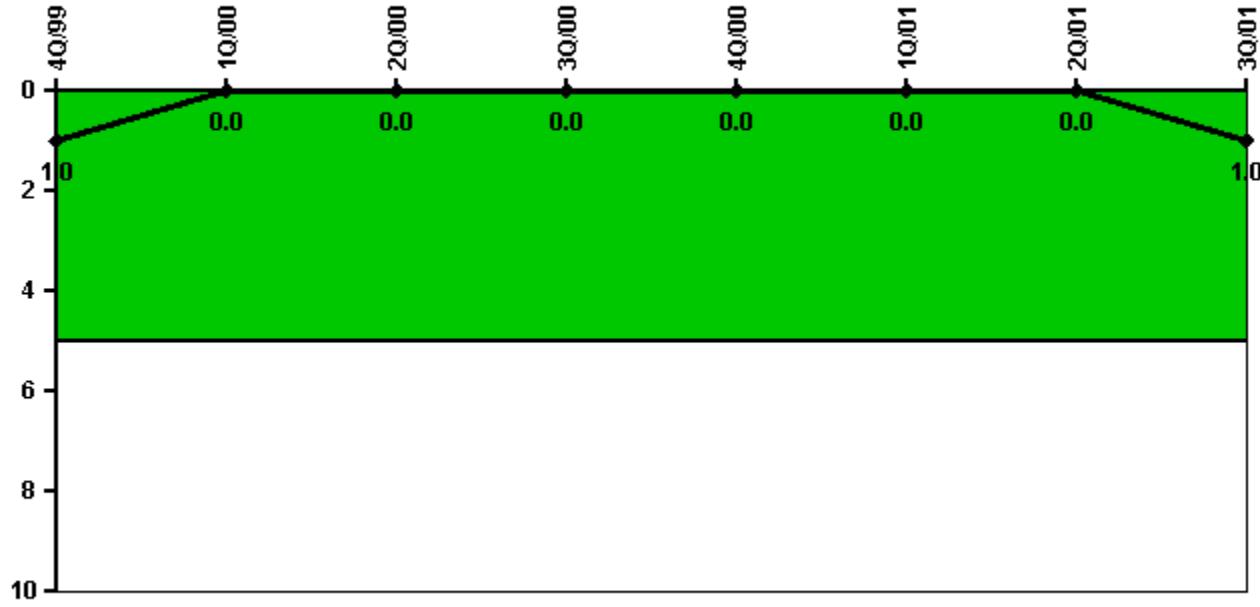
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	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	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	0	109.90	0	0	0	336.80	935.40	0
Train 2								
Planned unavailable hours	0	0	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	0	109.90	0	0	0	336.80	935.40	0
Train 3								
Planned unavailable hours	26.93	18.60	1.88	1.42	17.30	34.49	4.24	2.62
Unplanned unavailable hours	10.83	0	0	0	7.33	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	2209.00	2074.10	2183.00	2208.00	2209.00	1823.20	1247.60	2208.00
Train 4								
Planned unavailable hours	1.43	15.10	1.36	26.41	2.23	28.40	4.52	22.54
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	2074.10	2183.00	2208.00	2209.00	1823.20	1247.60	2208.00
Indicator value	0.9%	0.8%	0.7%	0.7%	0.7%	0.7%	0.6%	0.5%

Licensee Comments: none

Safety System Functional Failures (PWR)



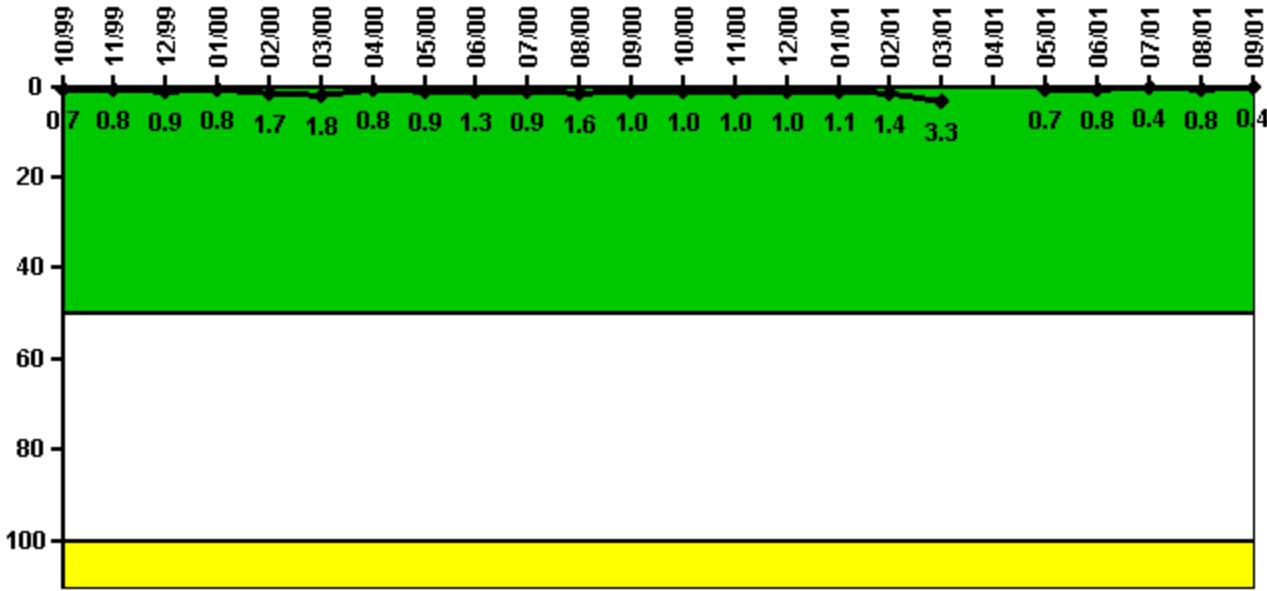
Thresholds: White > 5.0

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	0	0	0	0	0	0	1
Indicator value	1	0	0	0	0	0	0	1

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

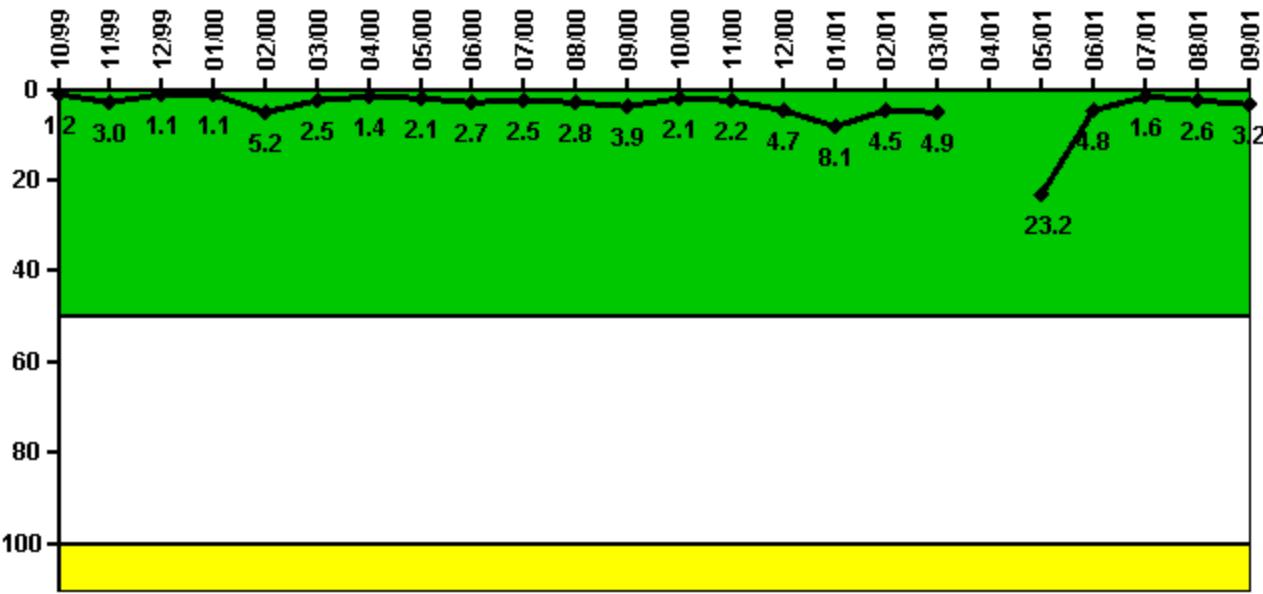
Notes

Reactor Coolant System Activity	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	0.006880	0.007570	0.008840	0.008020	0.017200	0.018400	0.008250	0.008750	0.012700	0.008910	0.016400	0.009940
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	0.7	0.8	0.9	0.8	1.7	1.8	0.8	0.9	1.3	0.9	1.6	1.0

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	0.009960	0.010200	0.010400	0.011200	0.013600	0.032800	N/A	0.007460	0.007800	0.003780	0.007770	0.004230
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	1.0	1.0	1.0	1.1	1.4	3.3	N/A	0.7	0.8	0.4	0.8	0.4

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

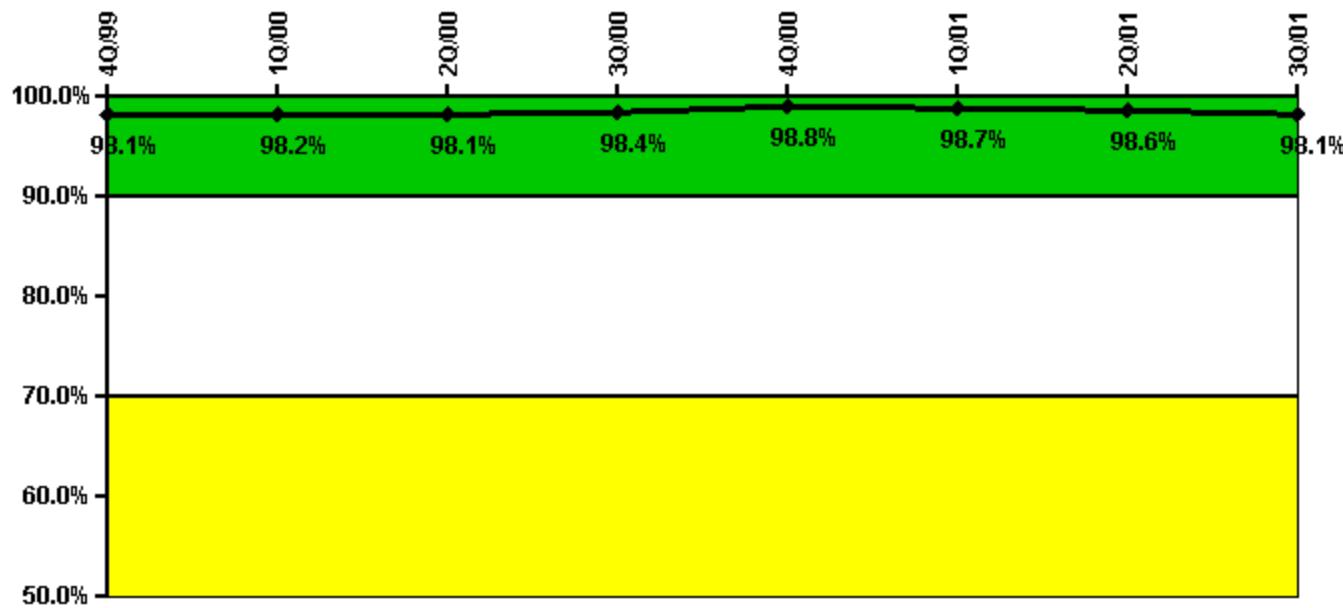
Notes

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	0.120	0.305	0.110	0.114	0.521	0.254	0.142	0.207	0.267	0.254	0.277	0.393
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	1.2	3.0	1.1	1.1	5.2	2.5	1.4	2.1	2.7	2.5	2.8	3.9

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	0.212	0.224	0.471	0.814	0.450	0.488	N/A	2.320	0.480	0.155	0.260	0.317
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	2.1	2.2	4.7	8.1	4.5	4.9	N/A	23.2	4.8	1.6	2.6	3.2

Licensee Comments: none

Drill/Exercise Performance



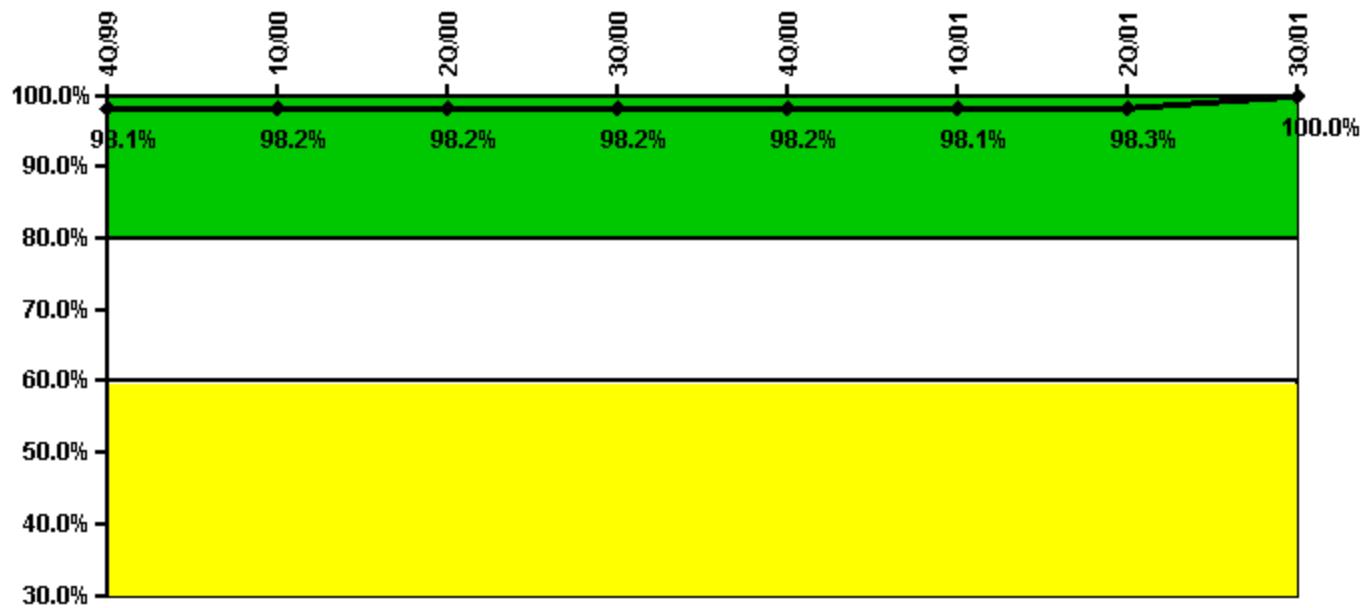
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Successful opportunities	57.0	10.0	19.0	32.0	33.0	11.0	22.0	27.0
Total opportunities	59.0	10.0	19.0	33.0	33.0	11.0	22.0	28.0
Indicator value	98.1%	98.2%	98.1%	98.4%	98.8%	98.7%	98.6%	98.1%

Licensee Comments:

3Q/01: During an NRC Resident Inspector observation of License Operator Requalification Training (LORT) in the plant control room simulator, it was noted that certain scenarios contained more than one opportunity within the simulation. Analysis revealed two scenarios in the LORT library had multiple opportunities. These scenarios were used on 10 occasions in the past 8 quarters, the period over which this indicator is calculated. Although no data exists to evaluate whether these opportunities were performed timely and accurately, a worst case accounting would not cause the color of the indicator to change in any previous reporting period. This issue has been entered into the site corrective action program to prevent recurrence of this data error.

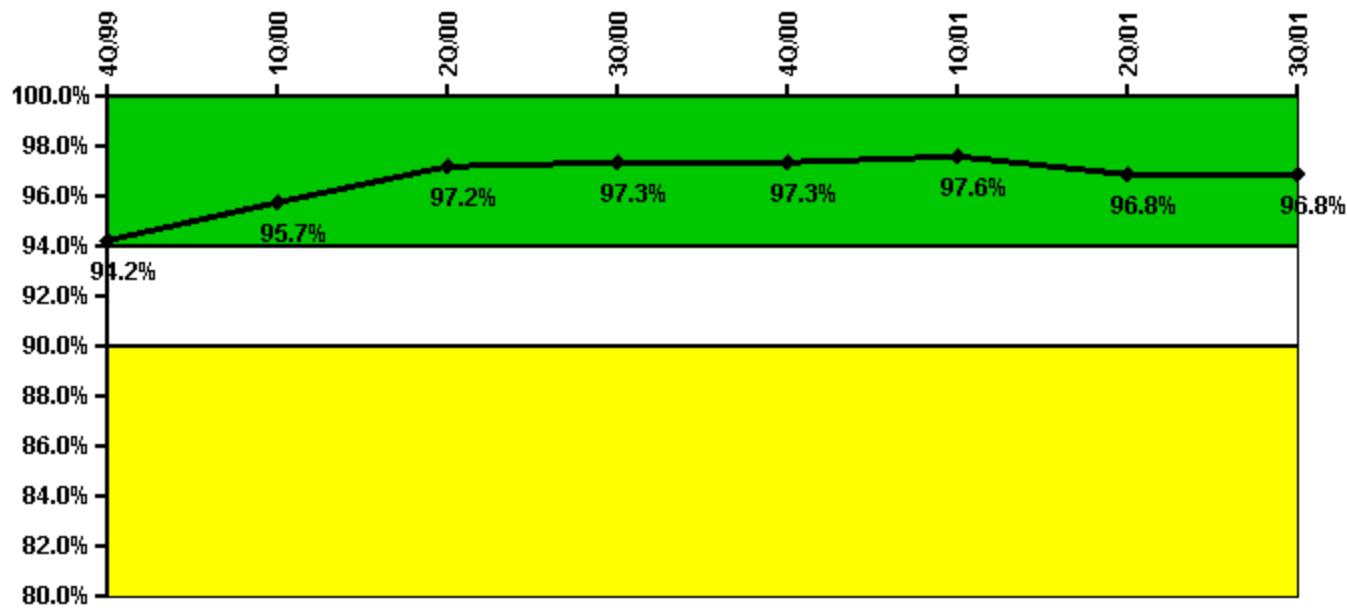
ERO Drill Participation

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	52.0	56.0	56.0	55.0	54.0	53.0	59.0	57.0
Total Key personnel	53.0	57.0	57.0	56.0	55.0	54.0	60.0	57.0
Indicator value	98.1%	98.2%	98.2%	98.2%	98.2%	98.1%	98.3%	100.0%

Licensee Comments: none

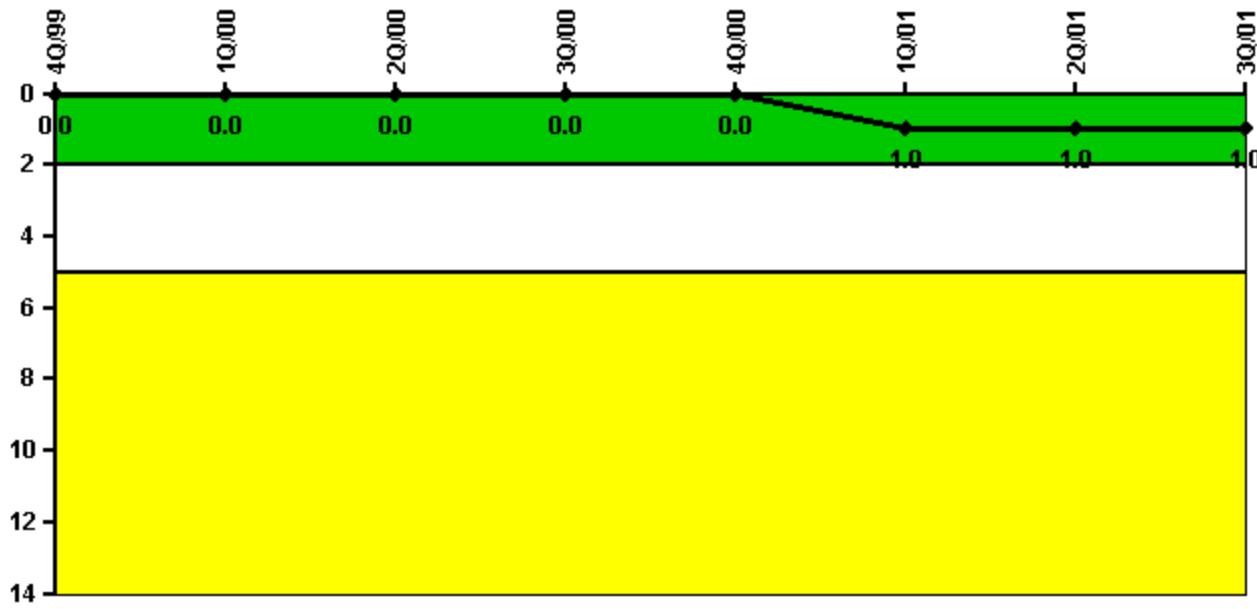
Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Successful siren-tests	861	929	929	906	1039	990	944	969
Total sirens-tests	885	950	955	936	1068	1002	1002	1002
Indicator value	94.2%	95.7%	97.2%	97.3%	97.3%	97.6%	96.8%	96.8%

Licensee Comments: none

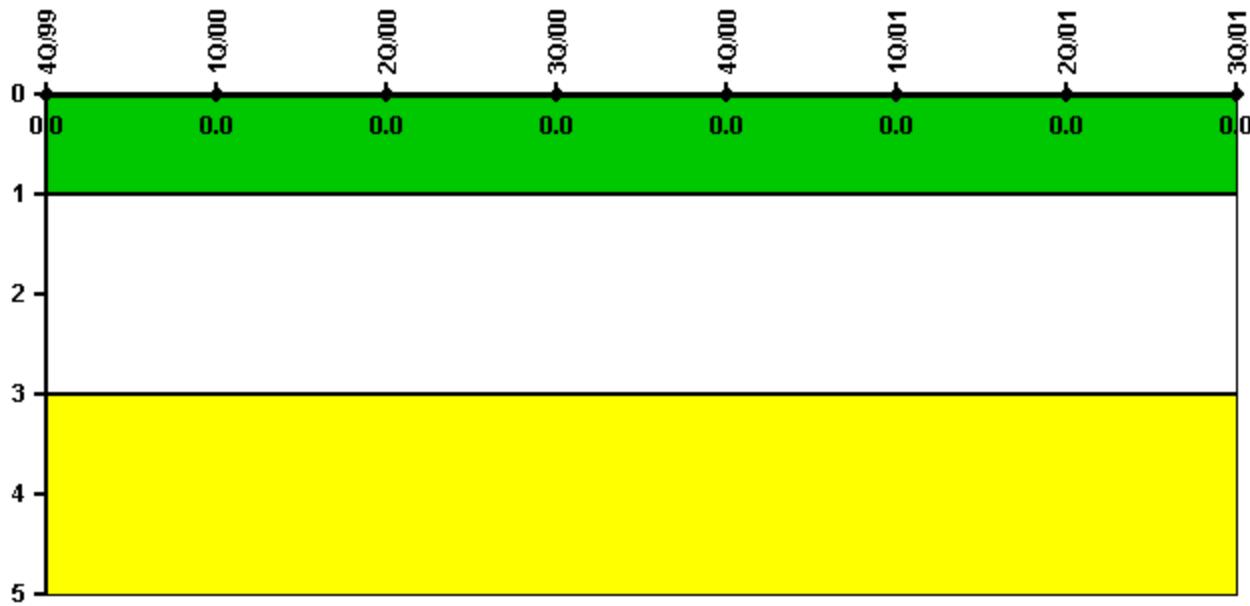
Occupational Exposure Control Effectiveness

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	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	0	0	0	0	0	1	1	1

Licensee Comments: none

RETS/ODCM Radiological Effluent

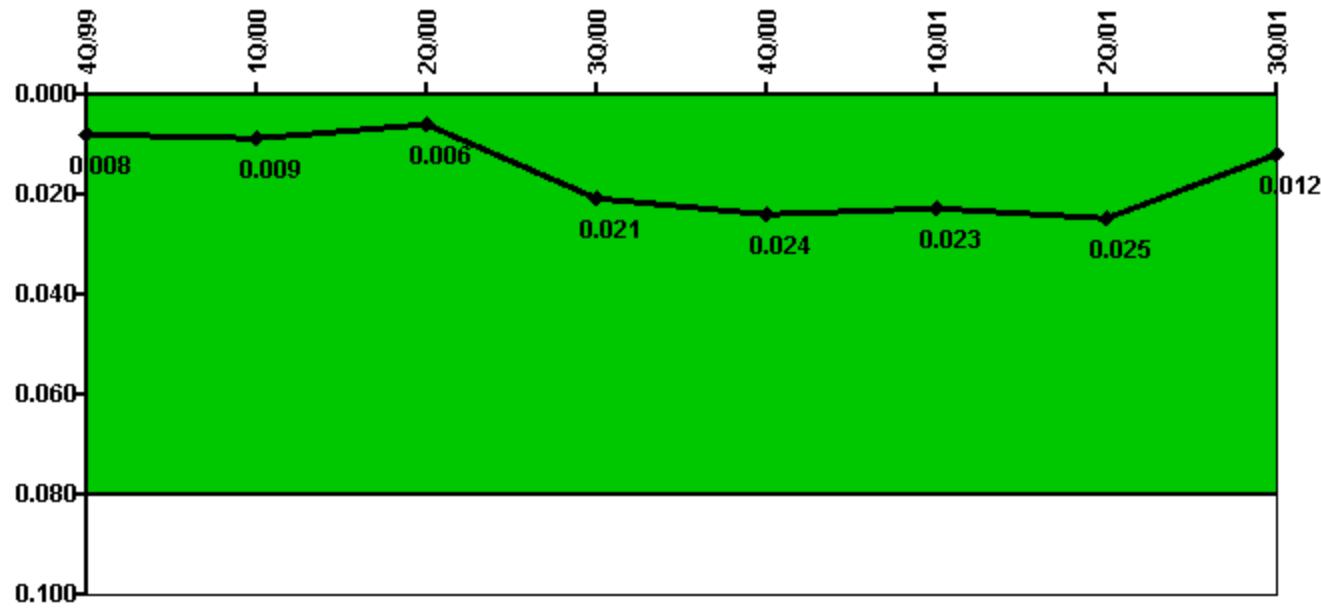
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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



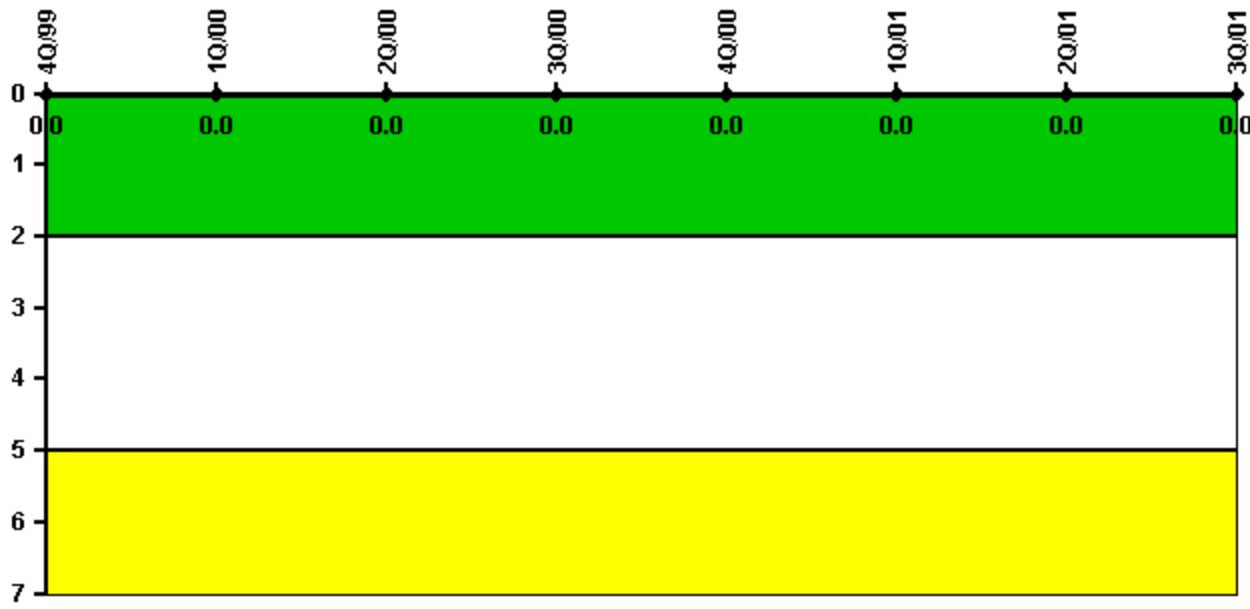
Thresholds: White > 0.080

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	50.10	46.00	38.60	390.70	116.70	14.80	85.60	69.60
CCTV compensatory hours	0	0	0	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	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Index Value	0.008	0.009	0.006	0.021	0.024	0.023	0.025	0.012

Licensee Comments: none

Personnel Screening Program



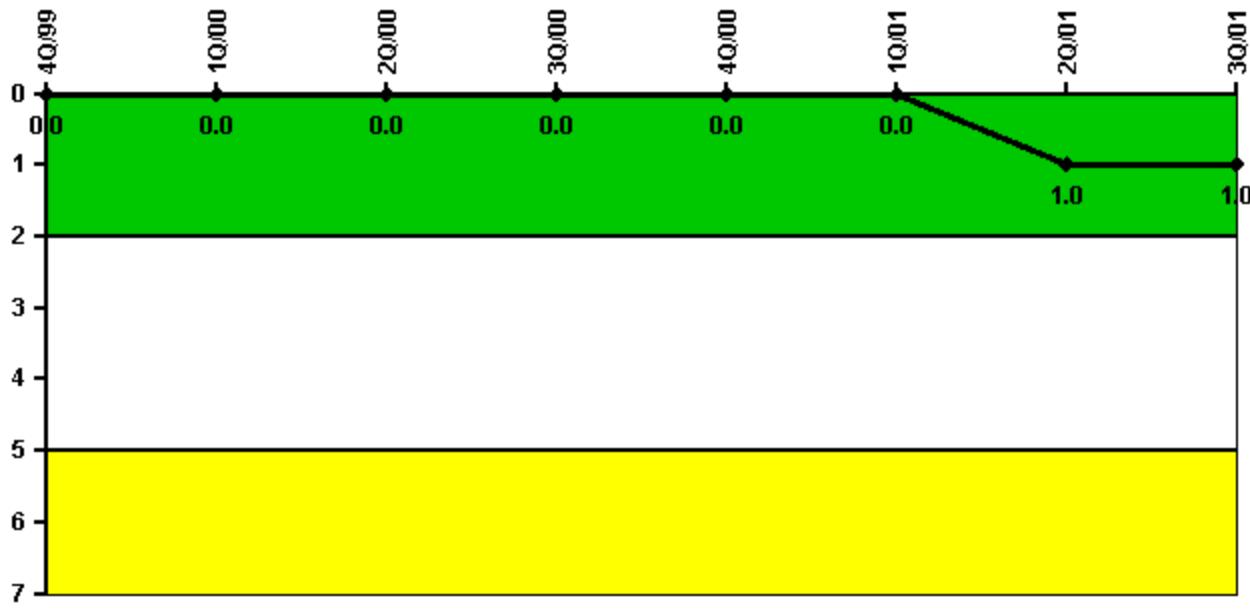
Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	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

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	1	0
Indicator value	0	0	0	0	0	0	1	1

Licensee Comments:

3Q/01: A change report affecting previously reported data for 2Q/2001 has been submitted with this quarterly report. This change makes the 2Q/2001 indicator value different than previously reported.

2Q/01: A reportable event occurred in May 2001, which was inadvertently omitted from the 2Q/2001 indicator report. This change does not change the color of the indicator.

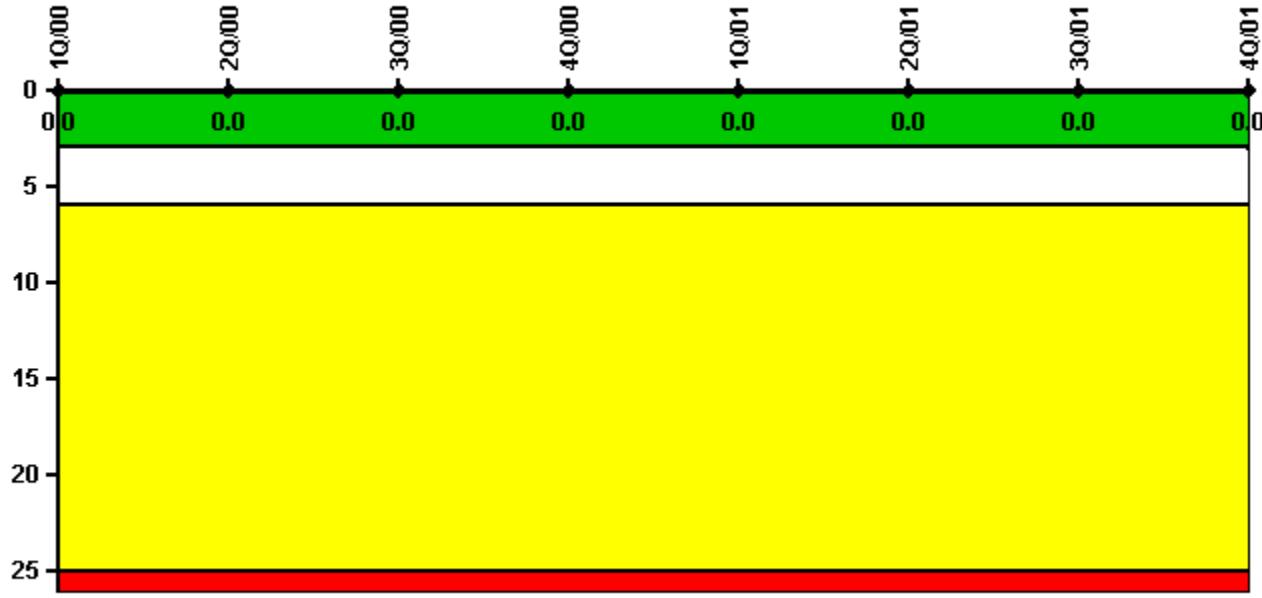


[PI Summary](#) | [Inspection Findings Summary](#) | [Action Matrix Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 26, 2002

Calvert Cliffs 2**4Q/2001 Performance Indicators**

Licensee's General Comments: none

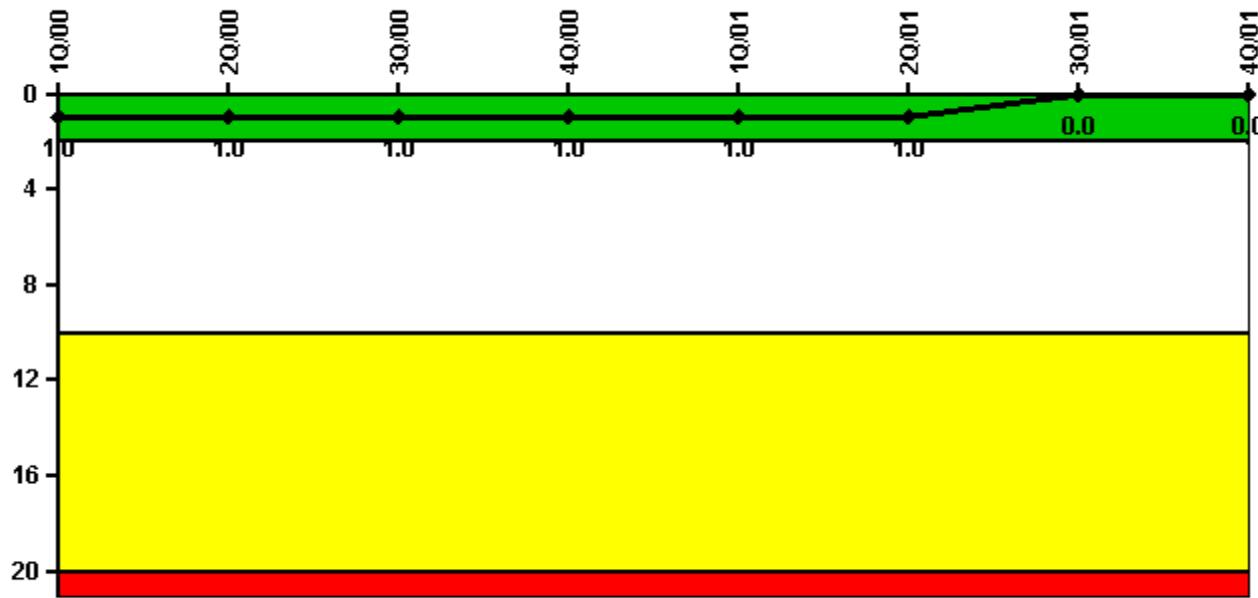
Unplanned Scrams per 7000 Critical Hrs

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	0
Critical hours	2019.8	2183.0	2208.0	2209.0	1800.0	1163.4	2208.0	2162.9
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

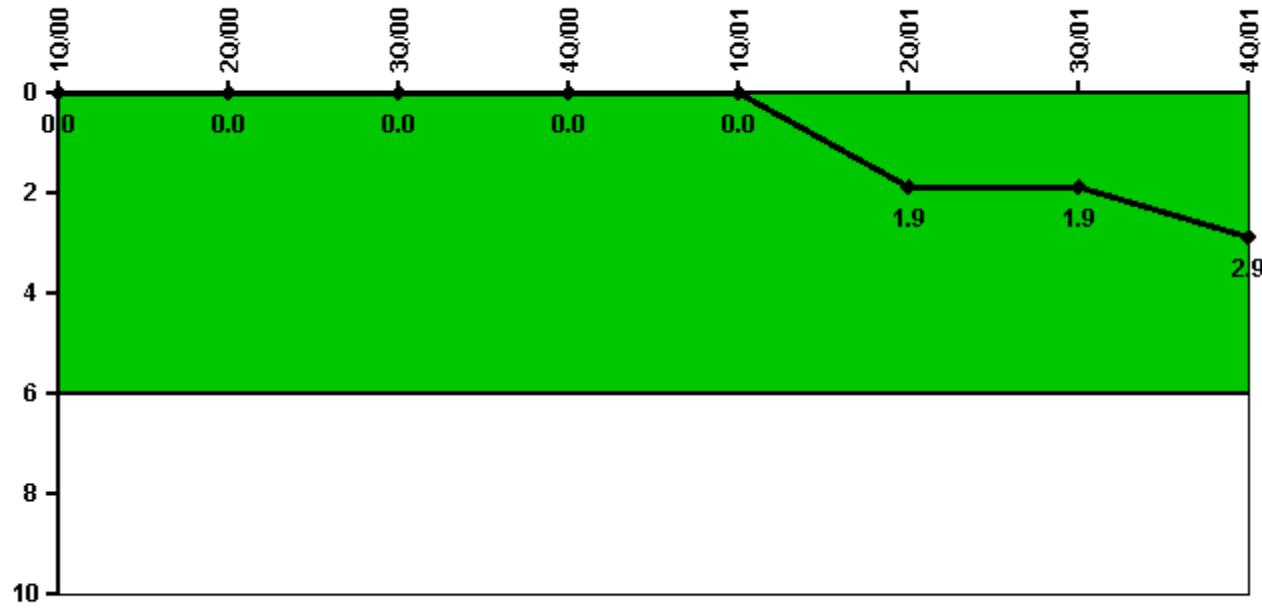
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	1.0	1.0	1.0	1.0	1.0	1.0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



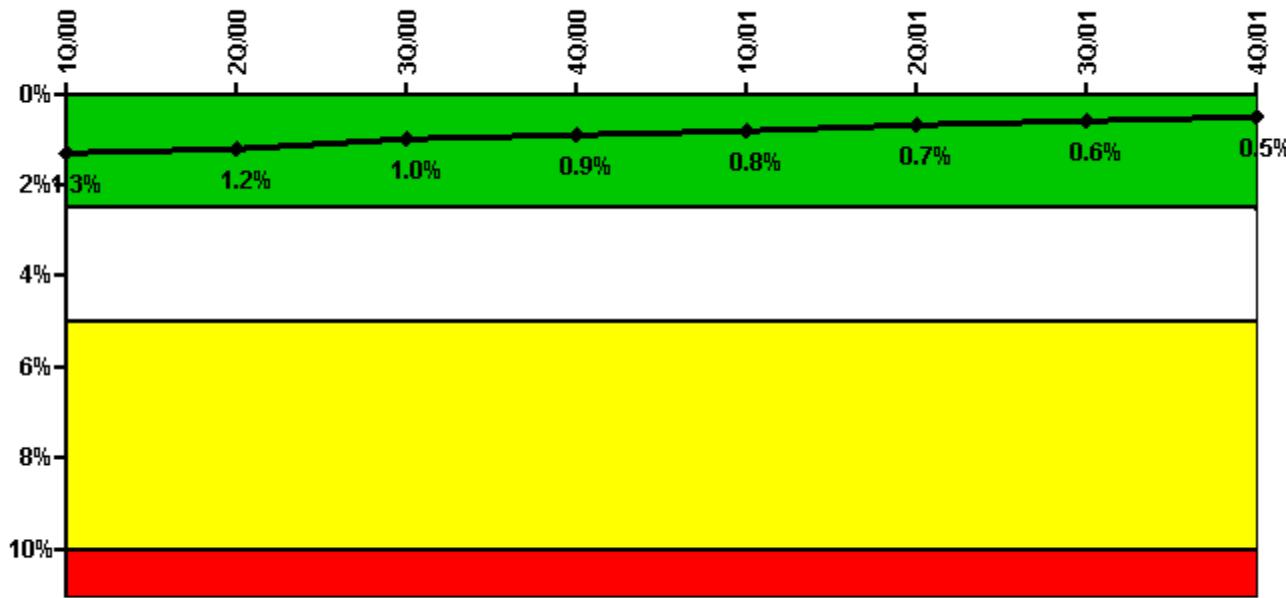
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned power changes	0	0	0	0	0	2.0	0	1.0
Critical hours	2019.8	2183.0	2208.0	2209.0	1800.0	1163.4	2208.0	2162.9
Indicator value	0	0	0	0	0	1.9	1.9	2.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



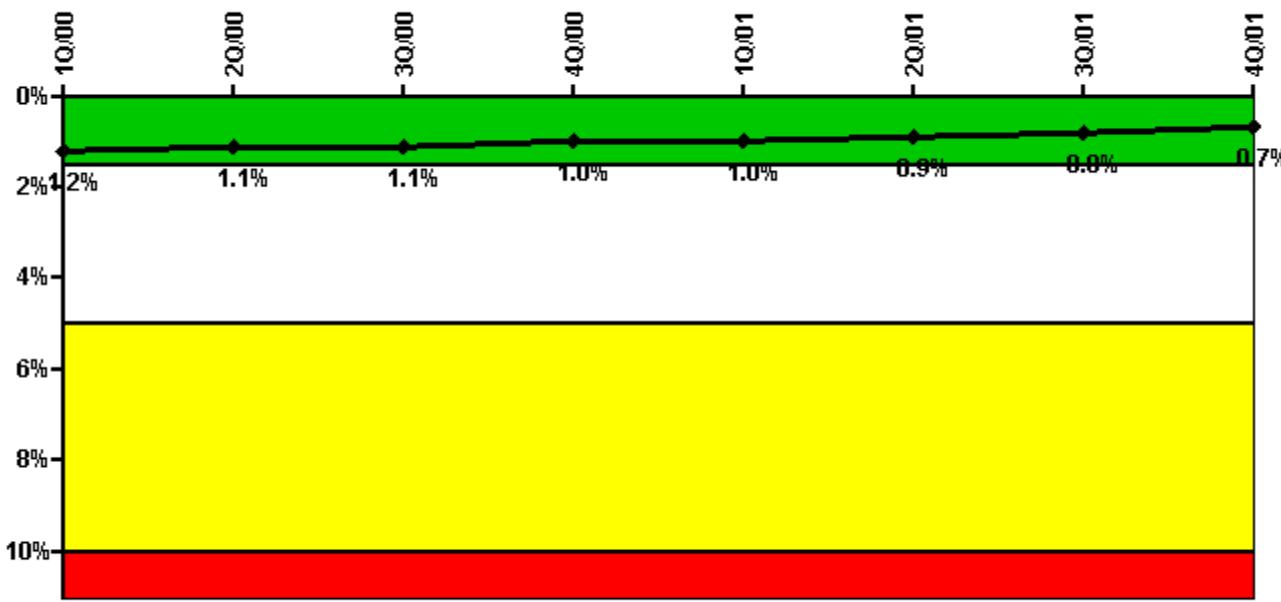
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	31.00	0	0	0	15.33	0.83	34.50	0.50
Unplanned unavailable hours	0	0	0	0	0	0	17.27	9.27
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	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	13.38	0	0	0.50	37.40	0	0	0.25
Unplanned unavailable hours	0	0	0	0	0.25	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	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	1.3%	1.2%	1.0%	0.9%	0.8%	0.7%	0.6%	0.5%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



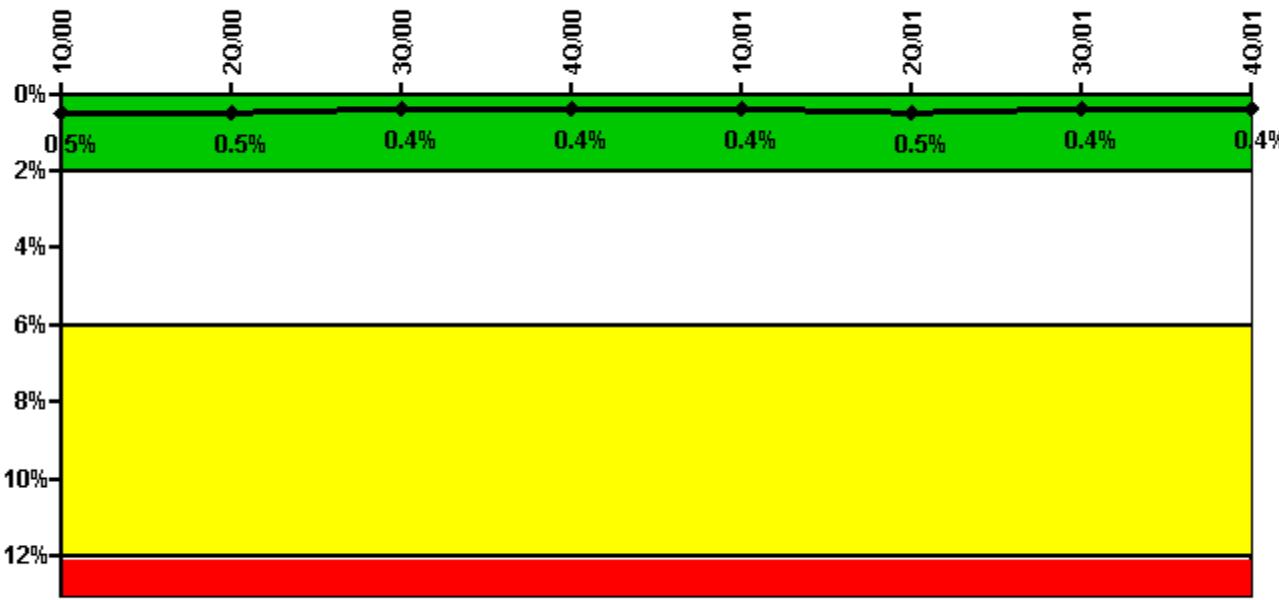
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)		1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1									
Planned unavailable hours		17.50	0.54	1.35	15.63	36.34	1.54	0.27	9.94
Unplanned unavailable hours		0	0	0	7.33	0	0	0	9.27
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2019.80	2183.00	2208.00	2209.00	1800.00	1163.30	2208.00	2162.90
Train 2									
Planned unavailable hours		12.84	0.62	26.17	1.13	19.27	1.54	17.47	0.54
Unplanned unavailable hours		0	0	0	0	0	0	0	0.47
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2019.80	2183.00	2208.00	2209.00	1800.00	1163.30	2208.00	2162.90
Indicator value		1.2%	1.1%	1.1%	1.0%	1.0%	0.9%	0.8%	0.7%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



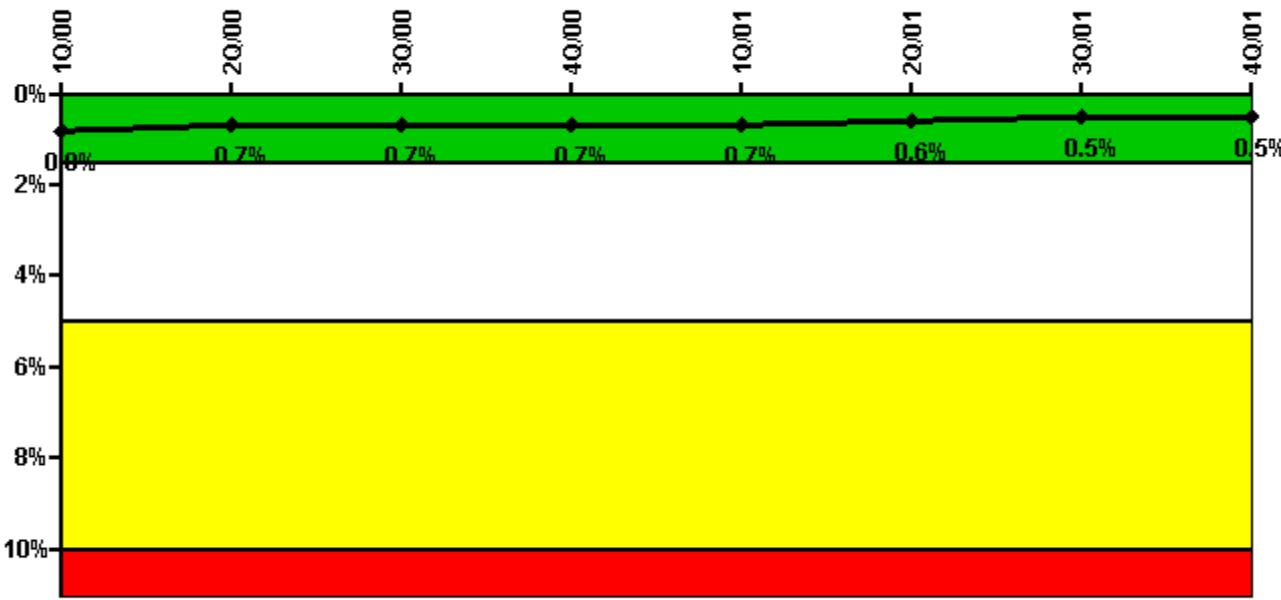
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	1.00	1.00	1.00	2.75	2.33	18.04	8.91	0.08
Unplanned unavailable hours	5.12	0	0	0	0	0	6.58	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	2019.80	2183.00	2208.00	2209.00	1800.00	1163.30	2208.00	2162.90
Train 2								
Planned unavailable hours	1.00	1.00	1.00	2.75	2.33	22.28	13.67	0.17
Unplanned unavailable hours	5.12	0	0	0	0	0	6.58	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	2019.80	2183.00	2208.00	2209.00	1800.00	1163.30	2208.00	2162.90
Train 3								
Planned unavailable hours	0	1.50	5.23	3.83	0	31.95	38.92	13.07
Unplanned unavailable hours	0	0	0	0	0	0	0.58	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	2019.80	2183.00	2208.00	2209.00	1800.00	1163.30	2208.00	2162.90
Indicator value	0.5%	0.5%	0.4%	0.4%	0.4%	0.5%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

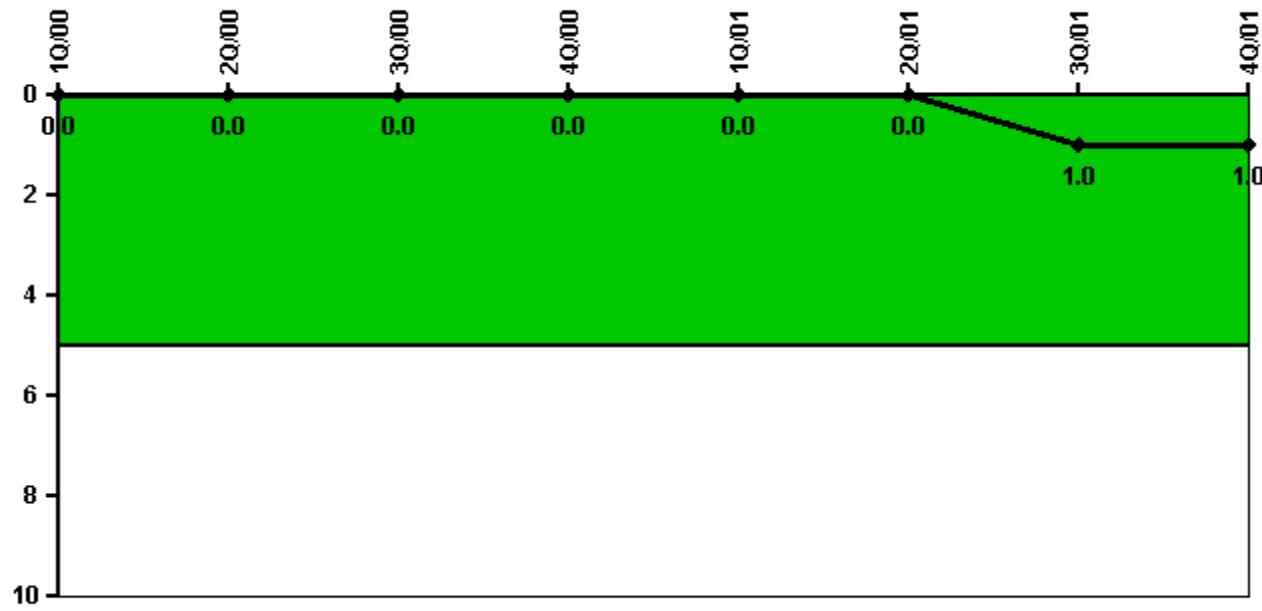


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System		1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1									
Planned unavailable hours		0	0	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		109.90	0	0	0	336.80	935.40	0	19.30
Train 2									
Planned unavailable hours		0	0	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		109.90	0	0	0	336.80	935.40	0	19.30
Train 3									
Planned unavailable hours		18.60	1.88	1.42	17.30	34.49	4.24	2.62	25.68
Unplanned unavailable hours		0	0	0	7.33	0	0	0	9.27
Fault exposure hours		0	0	0	0	0	0	0	0
Effective Reset hours		0	0	0	0	0	0	0	0
Required hours		2074.10	2183.00	2208.00	2209.00	1823.20	1247.60	2208.00	2189.70
Train 4									
Planned unavailable hours		15.10	1.36	26.41	2.23	28.40	4.52	22.54	1.91
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		2074.10	2183.00	2208.00	2209.00	1823.20	1247.60	2208.00	2189.70
Indicator value		0.8%	0.7%	0.7%	0.7%	0.7%	0.6%	0.5%	0.5%

Licensee Comments: none

Safety System Functional Failures (PWR)

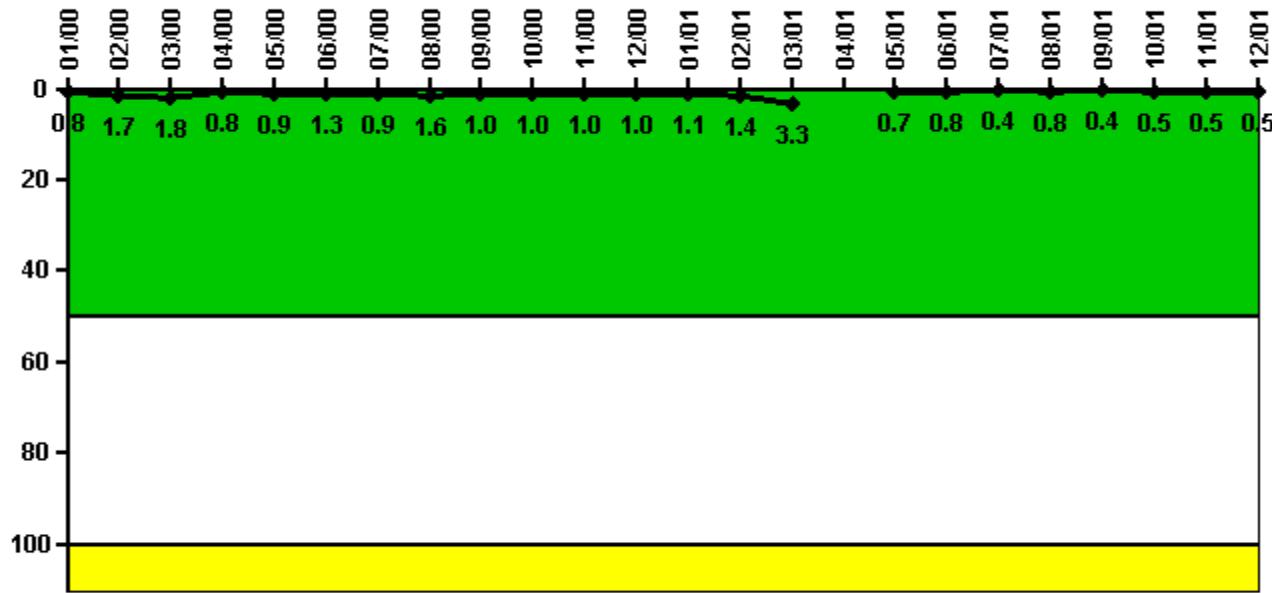
Thresholds: White > 5.0

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	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

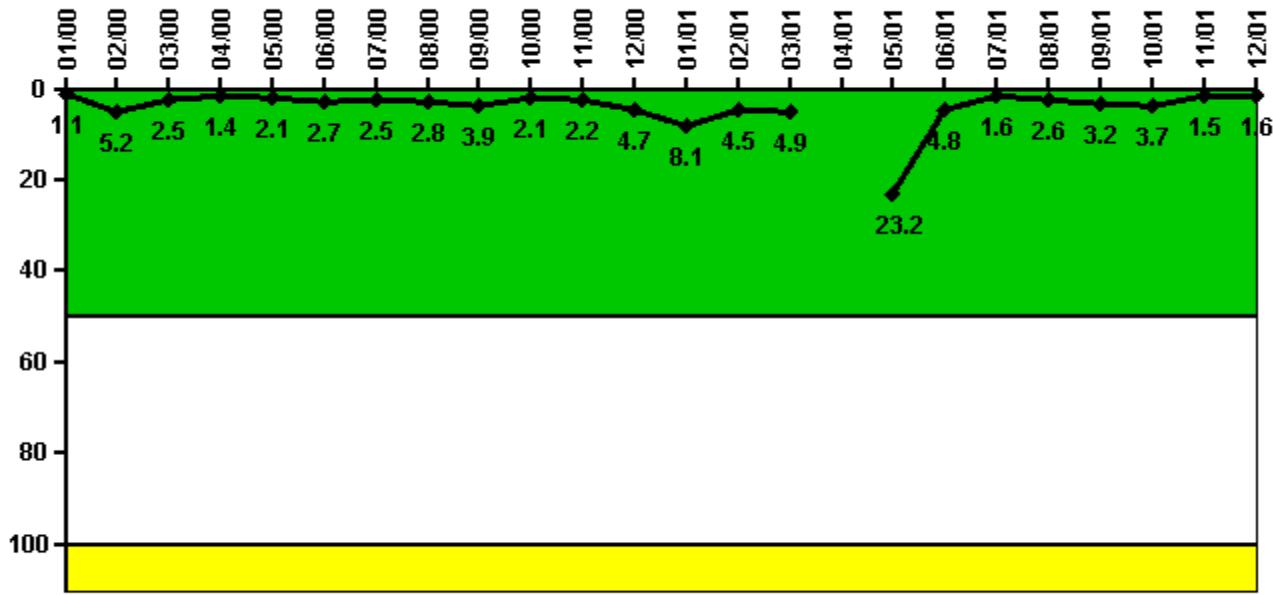
Notes

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	0.008020	0.017200	0.018400	0.008250	0.008750	0.012700	0.008910	0.016400	0.009940	0.009960	0.010200	0.010400
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	0.8	1.7	1.8	0.8	0.9	1.3	0.9	1.6	1.0	1.0	1.0	1.0

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	0.011200	0.013600	0.032800	N/A	0.007460	0.007800	0.003780	0.007770	0.004230	0.004620	0.004720	0.005170
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	1.1	1.4	3.3	N/A	0.7	0.8	0.4	0.8	0.4	0.5	0.5	0.5

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

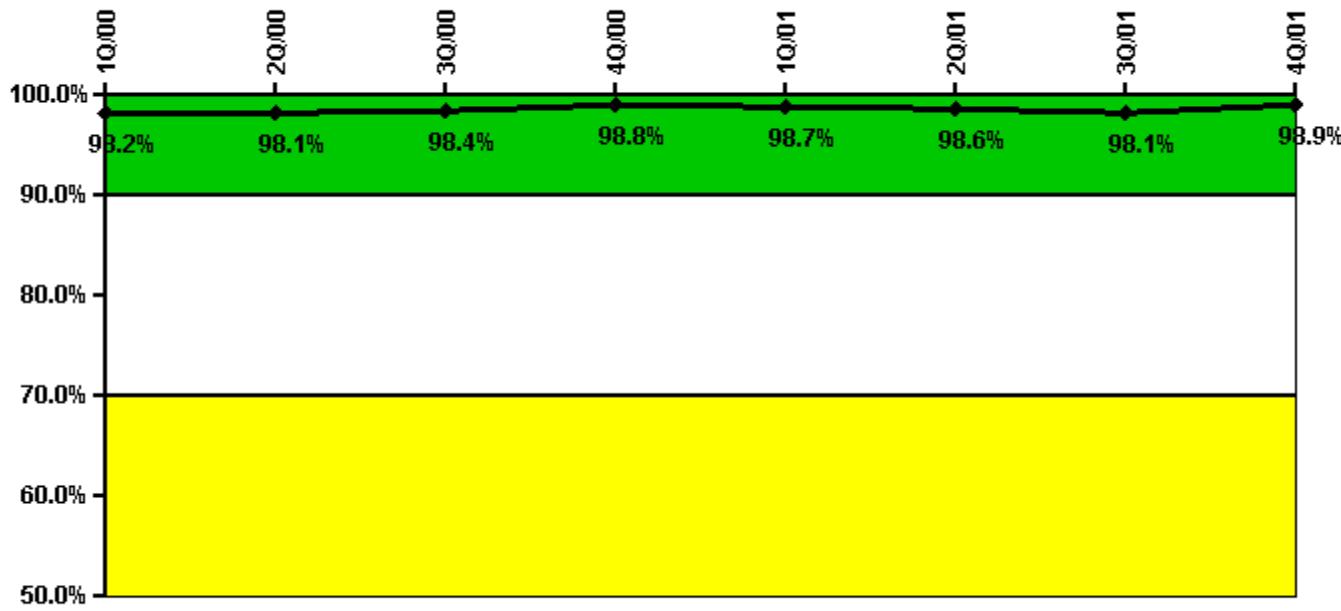
Notes

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	0.114	0.521	0.254	0.142	0.207	0.267	0.254	0.277	0.393	0.212	0.224	0.471
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	1.1	5.2	2.5	1.4	2.1	2.7	2.5	2.8	3.9	2.1	2.2	4.7

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	0.814	0.450	0.488	N/A	2.320	0.480	0.155	0.260	0.317	0.370	0.150	0.160
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	8.1	4.5	4.9	N/A	23.2	4.8	1.6	2.6	3.2	3.7	1.5	1.6

Licensee Comments: none

Drill/Exercise Performance



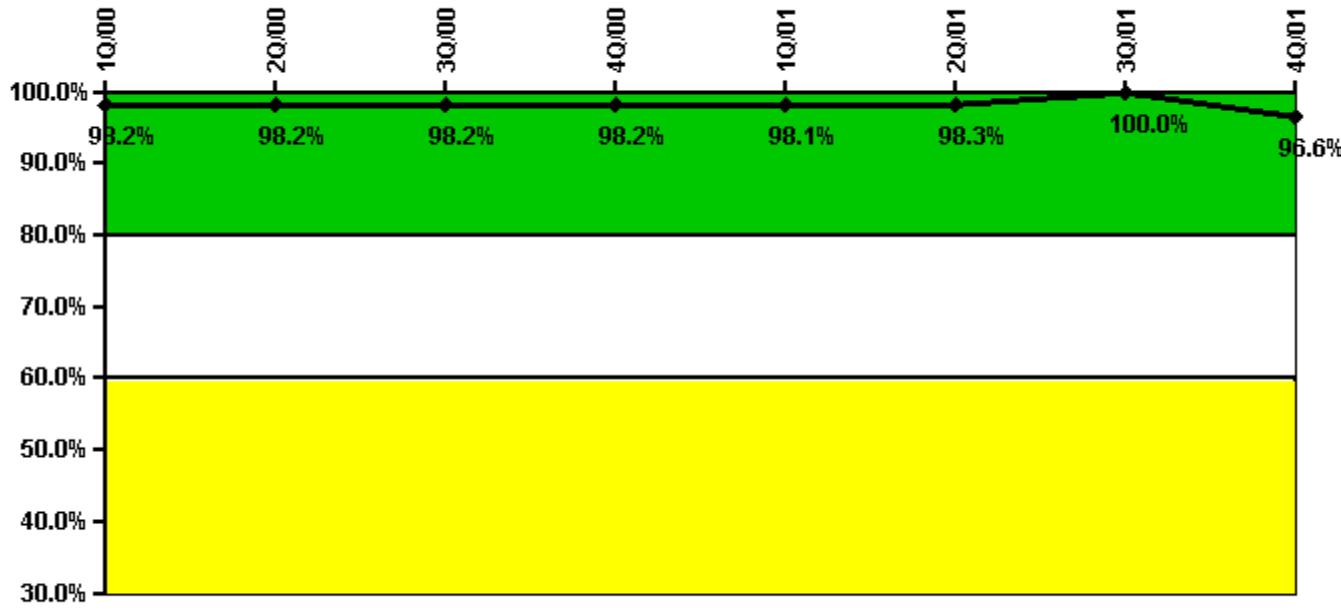
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful opportunities	10.0	19.0	32.0	33.0	11.0	22.0	27.0	25.0
Total opportunities	10.0	19.0	33.0	33.0	11.0	22.0	28.0	25.0
Indicator value	98.2%	98.1%	98.4%	98.8%	98.7%	98.6%	98.1%	98.9%

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

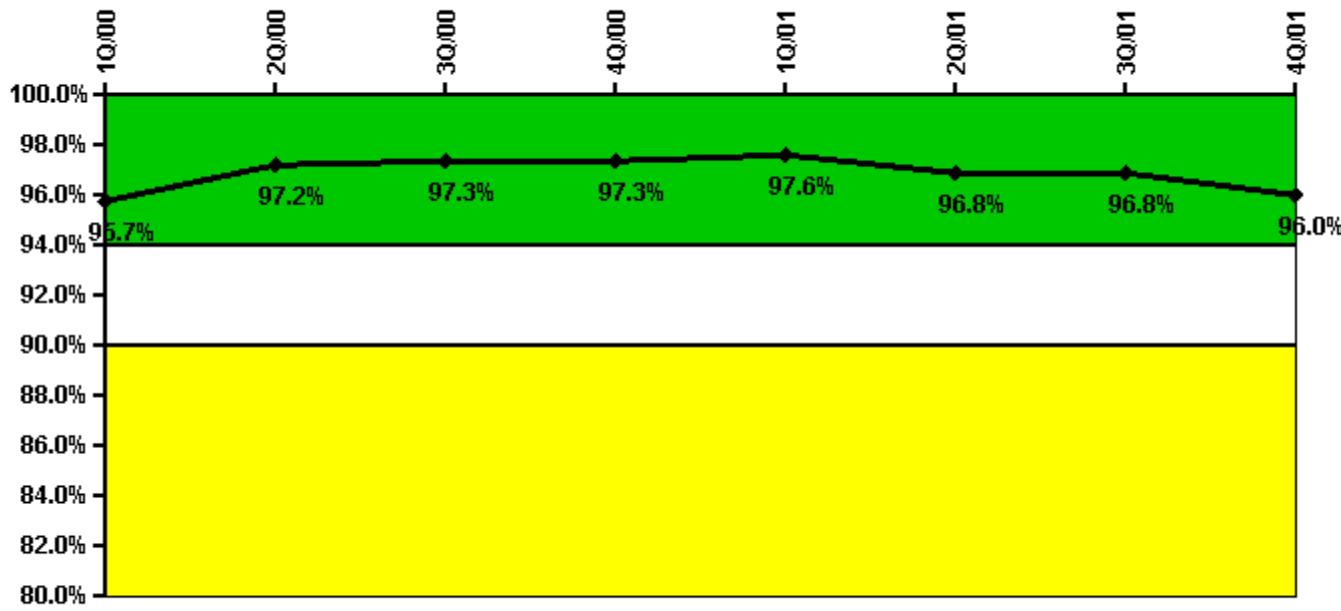
Notes

ERO Drill Participation	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Participating Key personnel	56.0	56.0	55.0	54.0	53.0	59.0	57.0	57.0
Total Key personnel	57.0	57.0	56.0	55.0	54.0	60.0	57.0	59.0
Indicator value	98.2%	98.2%	98.2%	98.2%	98.1%	98.3%	100.0%	96.6%

Licensee Comments:

4Q/01: During review of the data for preparation of the fourth quarter 2001 performance indicator submittal, an error was discovered that affects the indicator values for the second and third quarter 2001. Thus, the indicator value for second and third quarter 2001 are different than previously reported. The error in the second quarter and third quarter 2001 data has been determined not to change the indicator color; the indicator values remain in the green band for this performance indicator. The fourth quarter indicator data includes the corrected second and third quarter 2001 data.

Alert & Notification System

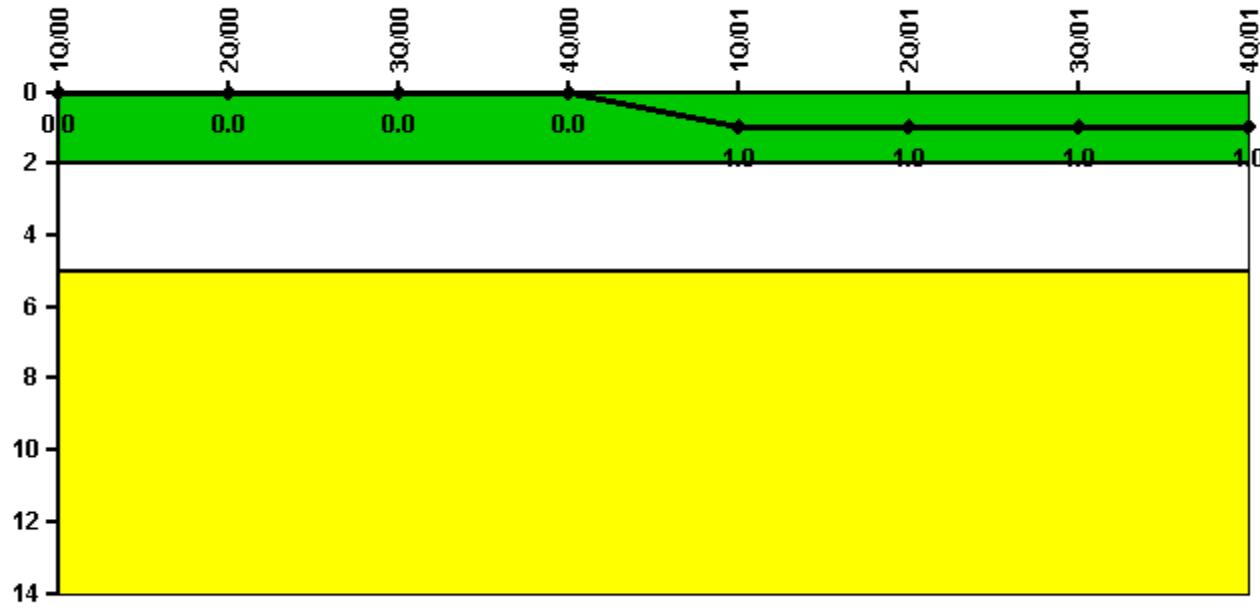


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful siren-tests	929	929	906	1039	990	944	969	1078
Total sirens-tests	950	955	936	1068	1002	1002	1002	1140
Indicator value	95.7%	97.2%	97.3%	97.3%	97.6%	96.8%	96.8%	96.0%

Licensee Comments: none

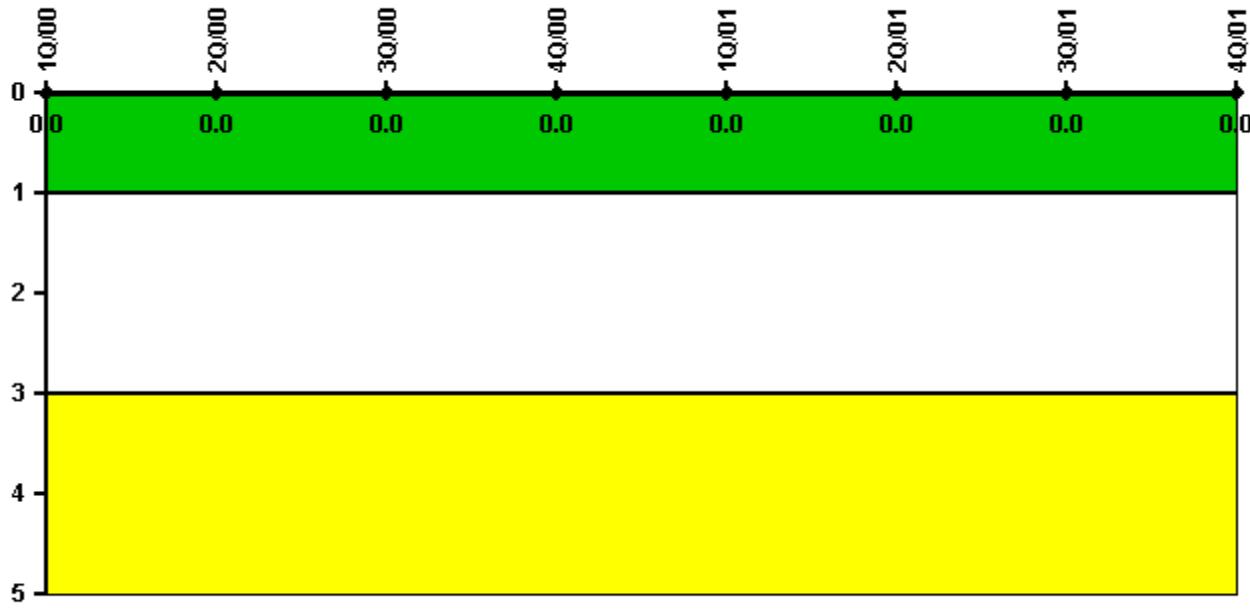
Occupational Exposure Control Effectiveness

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	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

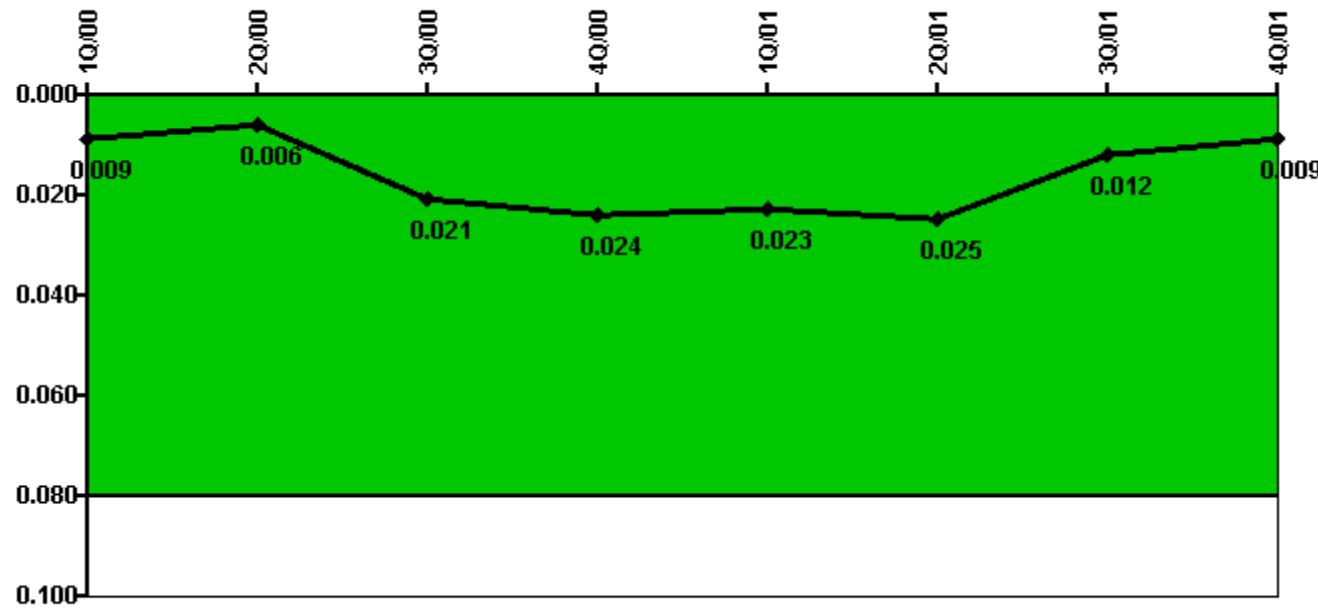
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

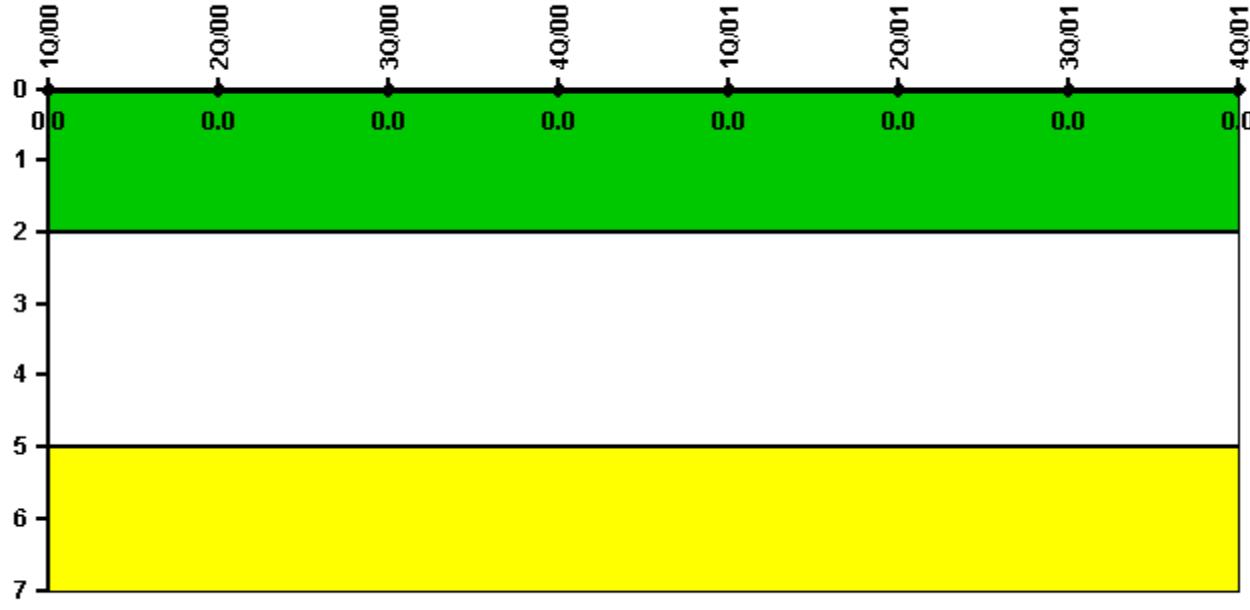


Thresholds: White > 0.080

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	46.00	38.60	390.70	116.70	14.80	85.60	69.60	39.90
CCTV compensatory hours	0	0	0	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	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Index Value	0.009	0.006	0.021	0.024	0.023	0.025	0.012	0.009

Licensee Comments: none

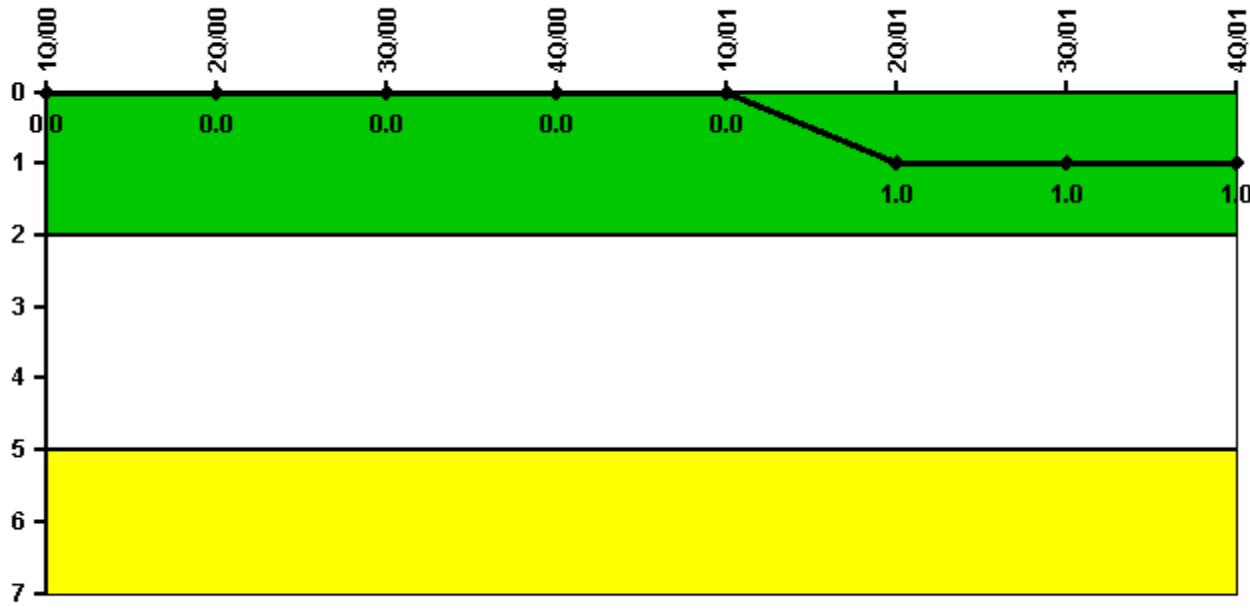
Personnel Screening Program

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	0	0
Indicator value	0	0	0	0	0	0	0	0

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	1	0	0
Indicator value	0	0	0	0	0	1	1	1

Licensee Comments: none

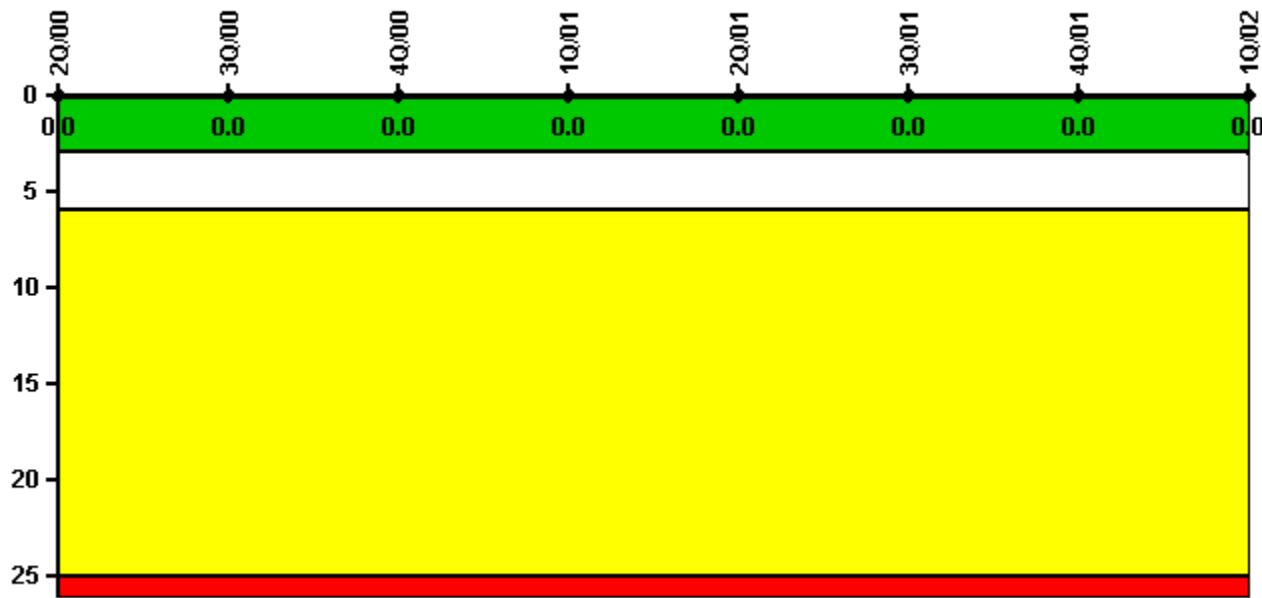


[PI Summary](#) | [Inspection Findings Summary](#) | [Action Matrix Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 15, 2002

Calvert Cliffs 2**1Q/2002 Performance Indicators**

Licensee's General Comments: none

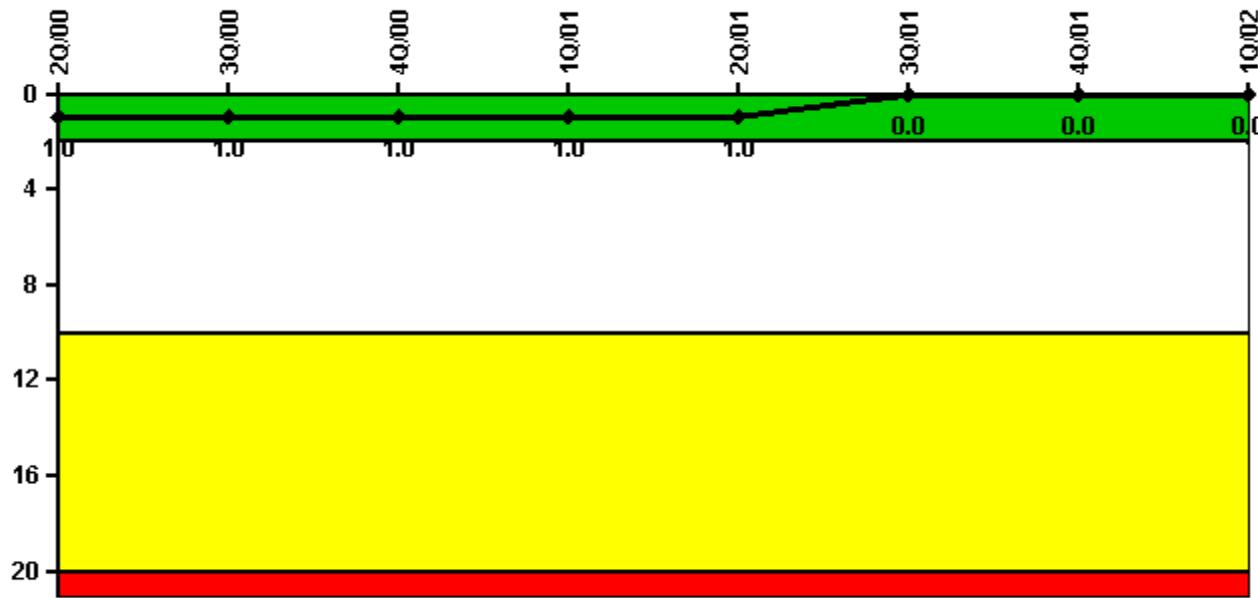
Unplanned Scrams per 7000 Critical Hrs

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	0	0
Critical hours	2183.0	2208.0	2209.0	1800.0	1163.4	2208.0	2162.9	2160.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

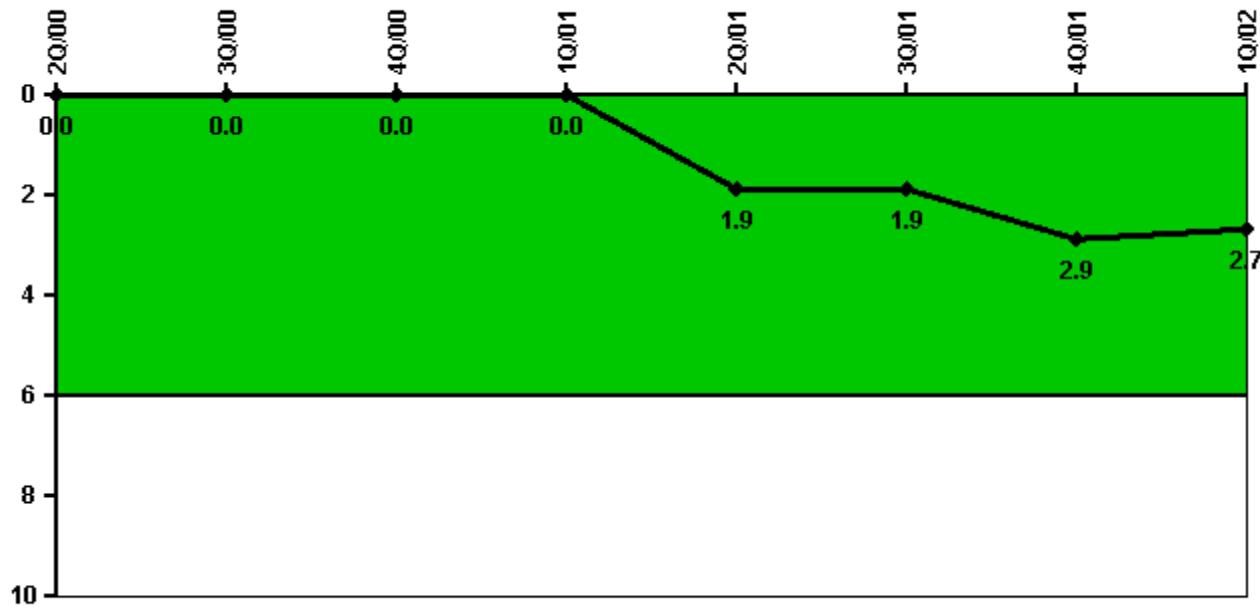
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	1.0	1.0	1.0	1.0	1.0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



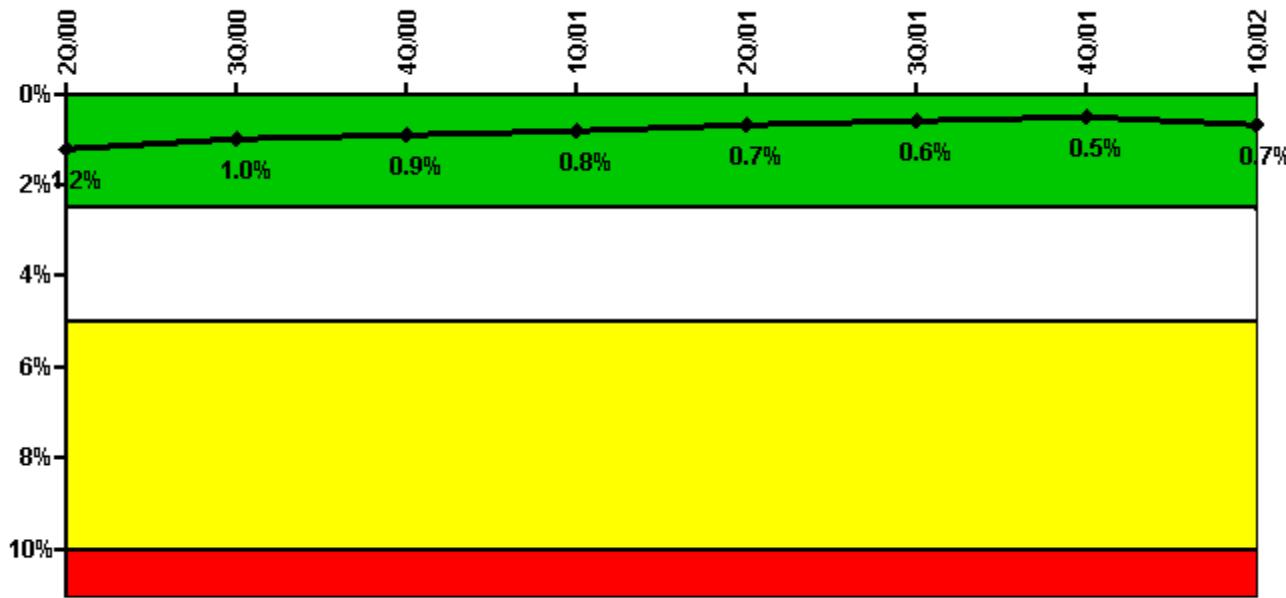
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned power changes	0	0	0	0	2.0	0	1.0	0
Critical hours	2183.0	2208.0	2209.0	1800.0	1163.4	2208.0	2162.9	2160.0
Indicator value	0	0	0	0	1.9	1.9	2.9	2.7

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



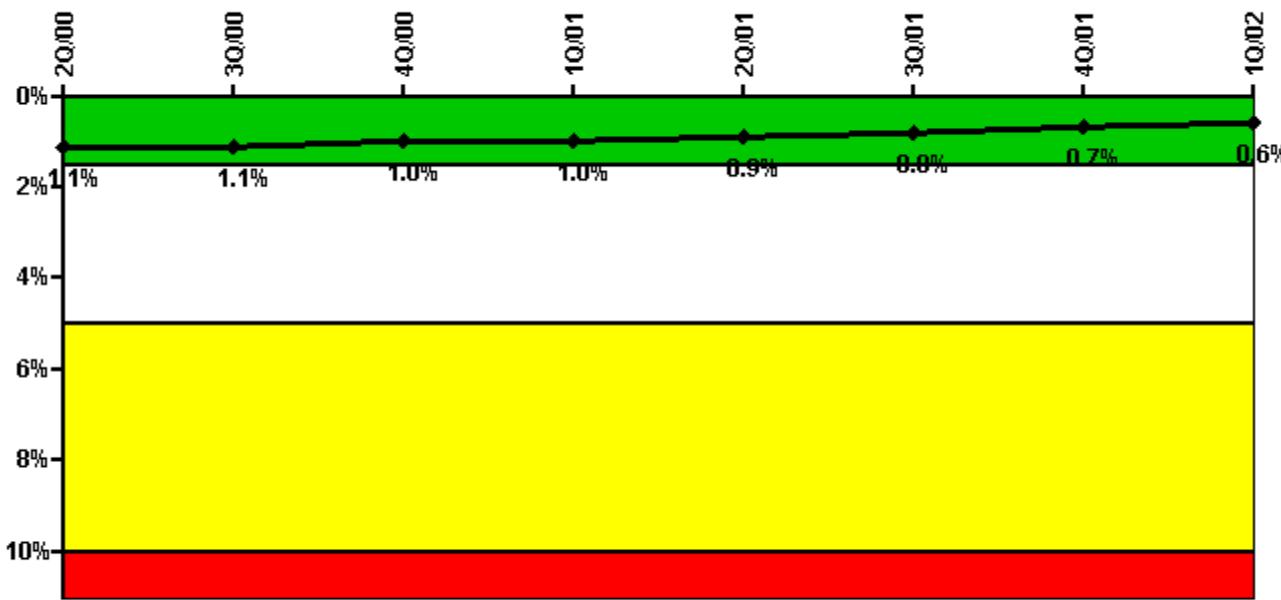
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

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	0	0	0	15.33	0.83	34.50	0.50	1.33
Unplanned unavailable hours	0	0	0	0	0	17.27	9.27	143.98
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	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	0	0	0.50	37.40	0	0	0.25	0
Unplanned unavailable hours	0	0	0	0.25	0	0	0	12.25
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	2183.00	2208.00	2209.00	2160.00
Indicator value	1.2%	1.0%	0.9%	0.8%	0.7%	0.6%	0.5%	0.7%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



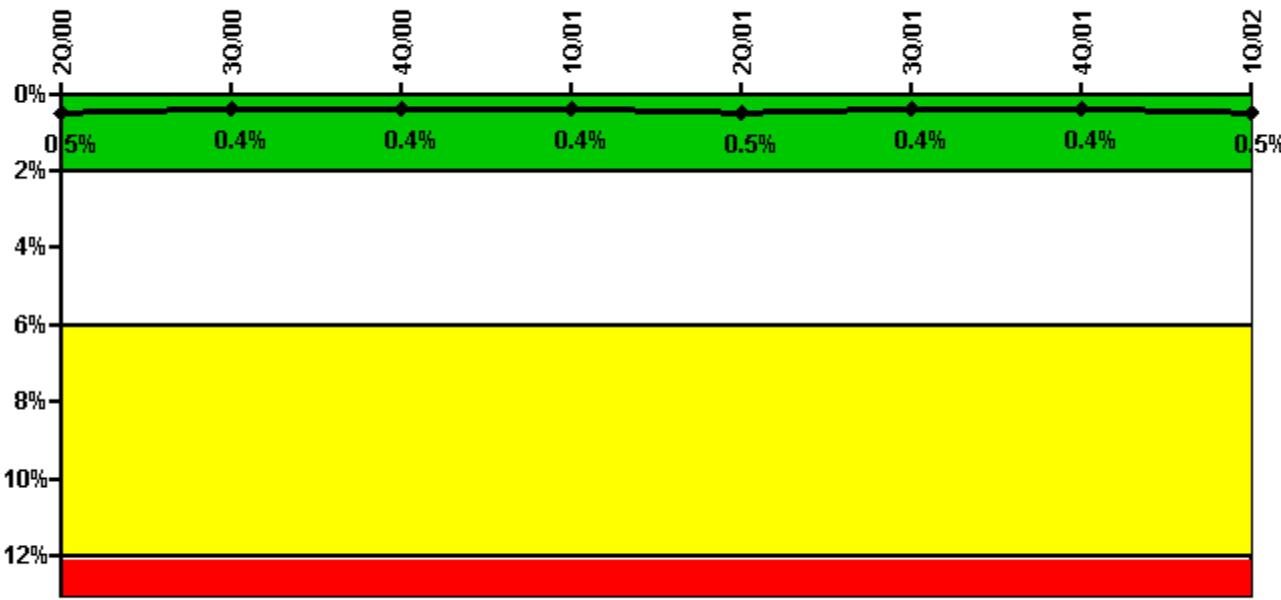
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	0.54	1.35	15.63	36.34	1.54	0.27	9.94	20.17
Unplanned unavailable hours	0	0	7.33	0	0	0	9.27	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	1800.00	1163.30	2208.00	2162.90	2160.00
Train 2								
Planned unavailable hours	0.62	26.17	1.13	19.27	1.54	17.47	0.54	17.45
Unplanned unavailable hours	0	0	0	0	0	0	0.47	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	1800.00	1163.30	2208.00	2162.90	2160.00
Indicator value	1.1%	1.1%	1.0%	1.0%	0.9%	0.8%	0.7%	0.6%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



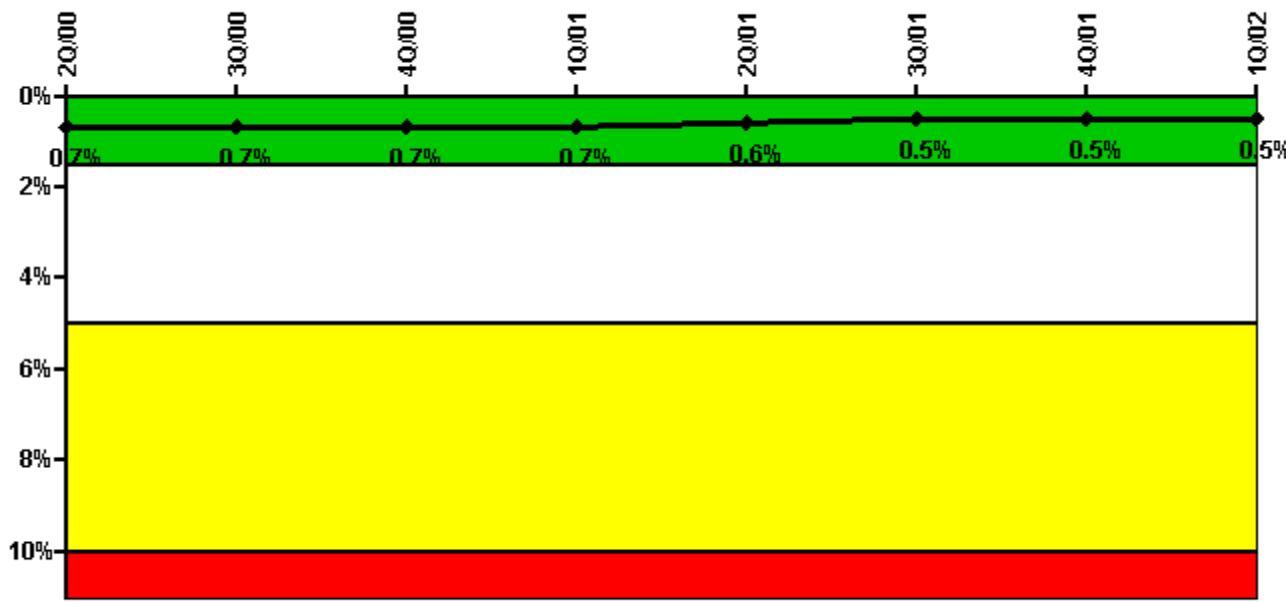
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	1.00	1.00	2.75	2.33	18.04	8.91	0.08	22.42
Unplanned unavailable hours	0	0	0	0	0	6.58	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	2183.00	2208.00	2209.00	1800.00	1163.30	2208.00	2162.90	2160.00
Train 2								
Planned unavailable hours	1.00	1.00	2.75	2.33	22.28	13.67	0.17	22.42
Unplanned unavailable hours	0	0	0	0	0	6.58	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	2183.00	2208.00	2209.00	1800.00	1163.30	2208.00	2162.90	2160.00
Train 3								
Planned unavailable hours	1.50	5.23	3.83	0	31.95	38.92	13.07	0
Unplanned unavailable hours	0	0	0	0	0	0.58	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	2183.00	2208.00	2209.00	1800.00	1163.30	2208.00	2162.90	2160.00
Indicator value	0.5%	0.4%	0.4%	0.4%	0.5%	0.4%	0.4%	0.5%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

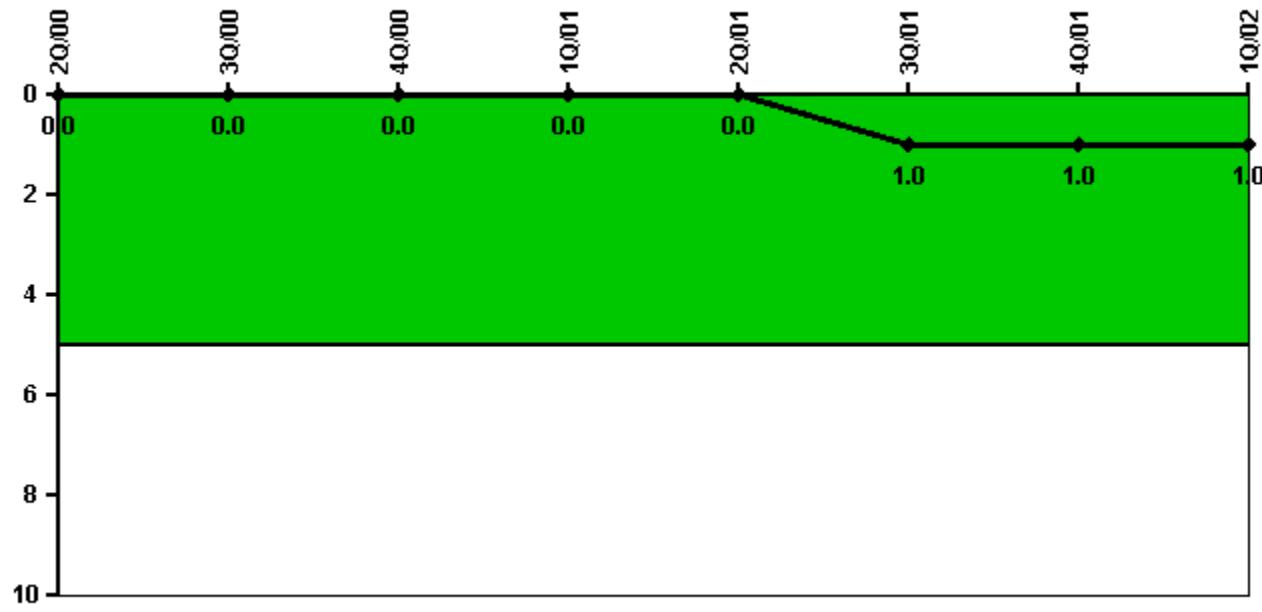


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	0	0	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	0	0	0	336.80	935.40	0	19.30	0
Train 2								
Planned unavailable hours	0	0	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	0	0	0	336.80	935.40	0	19.30	0
Train 3								
Planned unavailable hours	1.88	1.42	17.30	34.49	4.24	2.62	25.68	21.59
Unplanned unavailable hours	0	0	7.33	0	0	0	9.27	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	1823.20	1247.60	2208.00	2189.70	2160.00
Train 4								
Planned unavailable hours	1.36	26.41	2.23	28.40	4.52	22.54	1.91	18.47
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	1823.20	1247.60	2208.00	2189.70	2160.00
Indicator value	0.7%	0.7%	0.7%	0.7%	0.6%	0.5%	0.5%	0.5%

Licensee Comments: none

Safety System Functional Failures (PWR)

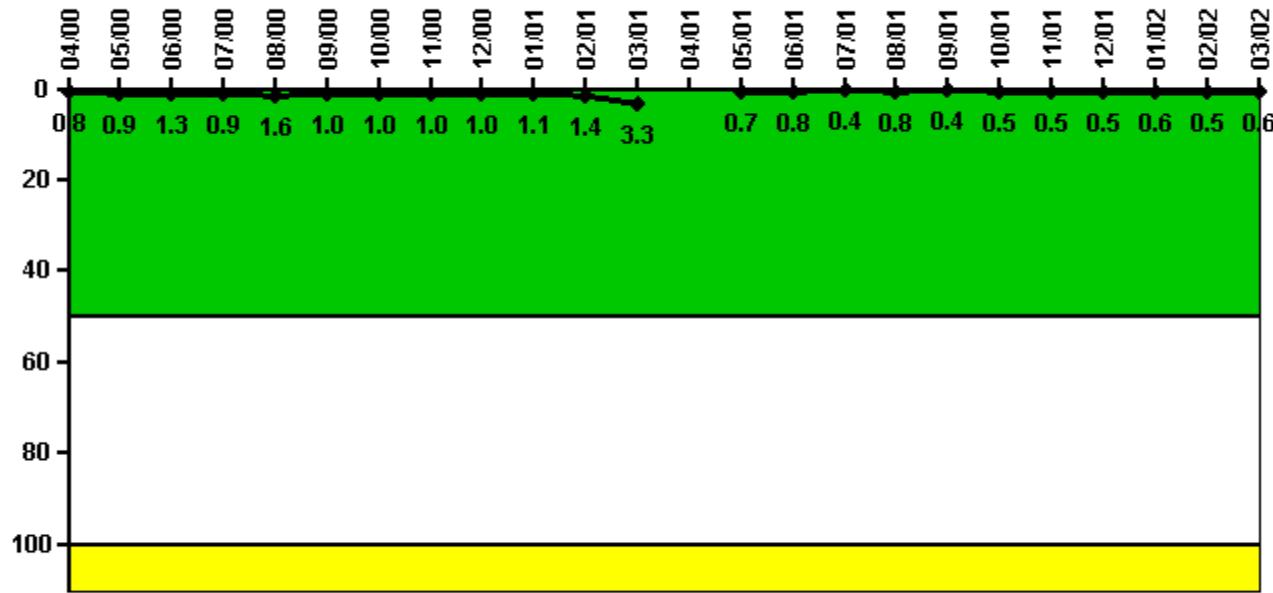
Thresholds: White > 5.0

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	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

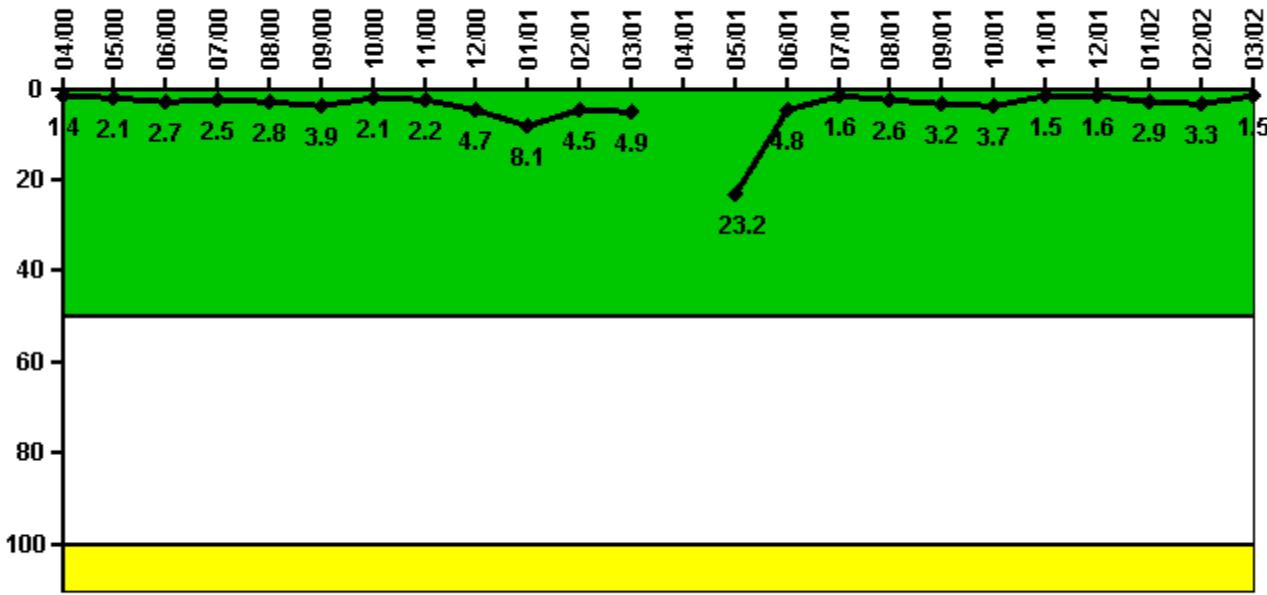
Notes

Reactor Coolant System Activity	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	0.008250	0.008750	0.012700	0.008910	0.016400	0.009940	0.009960	0.010200	0.010400	0.011200	0.013600	0.032800
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	0.8	0.9	1.3	0.9	1.6	1.0	1.0	1.0	1.0	1.1	1.4	3.3

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	N/A	0.007460	0.007800	0.003780	0.007770	0.004230	0.004620	0.004720	0.005170	0.005730	0.005470	0.005600
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	0.7	0.8	0.4	0.8	0.4	0.5	0.5	0.5	0.6	0.5	0.6

Licensee Comments: none

Reactor Coolant System Leakage



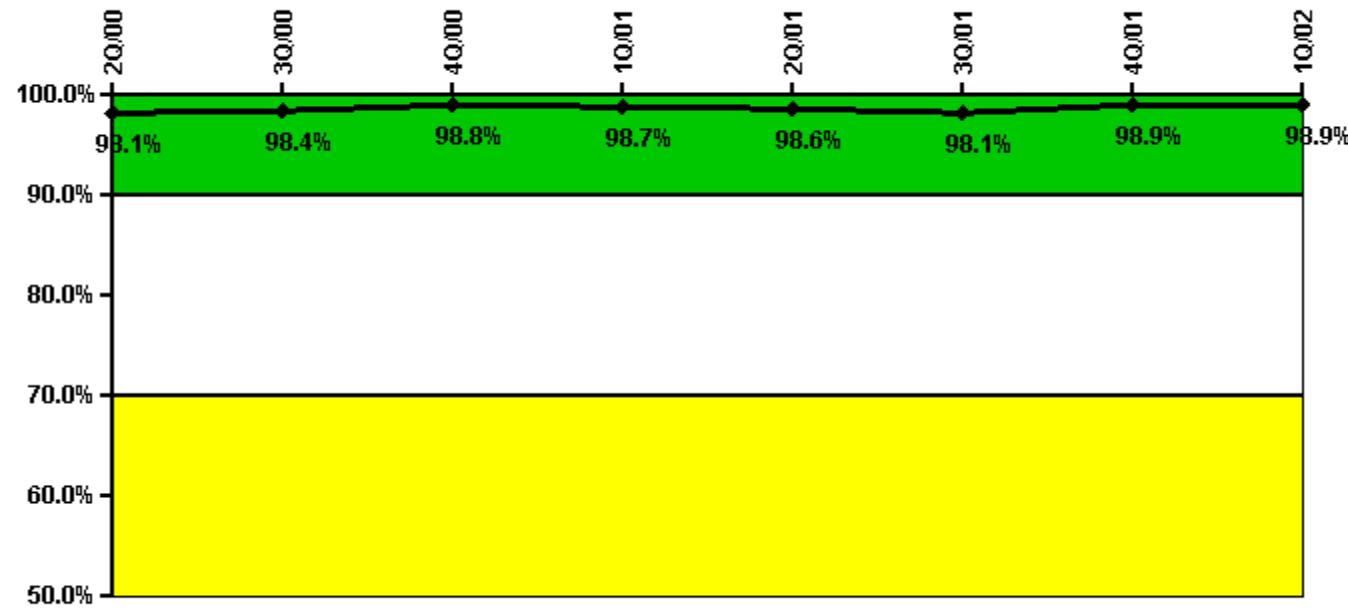
Thresholds: White > 50.0 Yellow > 100.0

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	0.142	0.207	0.267	0.254	0.277	0.393	0.212	0.224	0.471	0.814	0.450	0.488
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	1.4	2.1	2.7	2.5	2.8	3.9	2.1	2.2	4.7	8.1	4.5	4.9

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	N/A	2.320	0.480	0.155	0.260	0.317	0.370	0.150	0.160	0.289	0.331	0.145
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	23.2	4.8	1.6	2.6	3.2	3.7	1.5	1.6	2.9	3.3	1.5

Licensee Comments: none

Drill/Exercise Performance

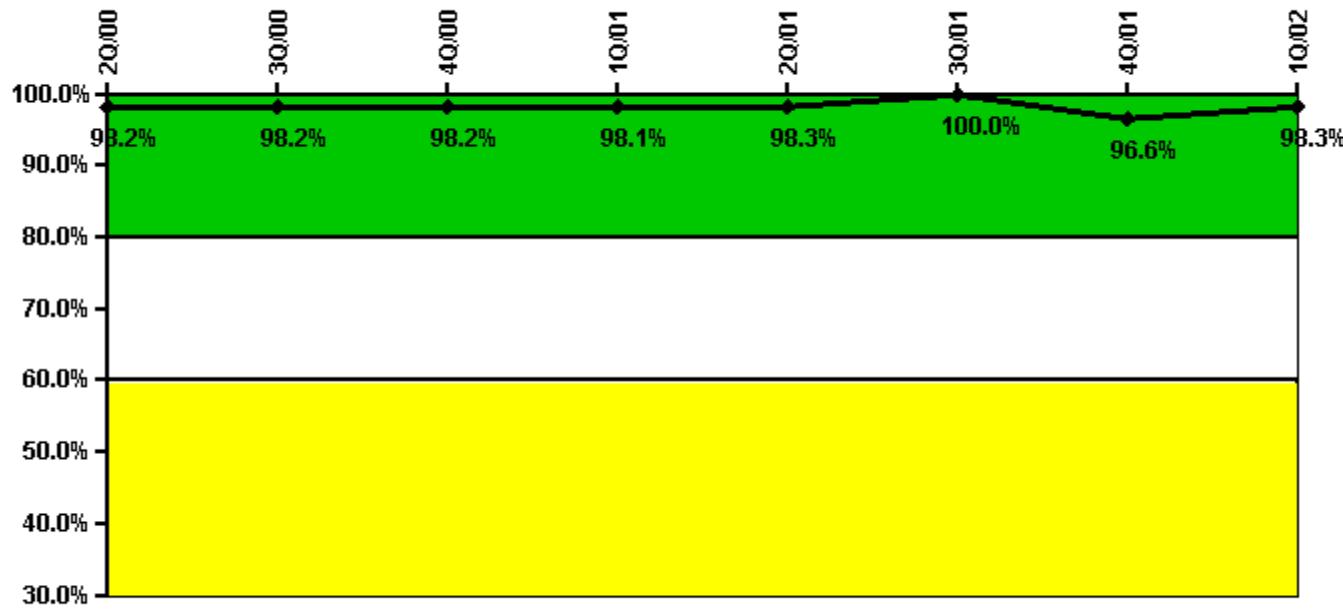
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful opportunities	19.0	32.0	33.0	11.0	22.0	27.0	25.0	14.0
Total opportunities	19.0	33.0	33.0	11.0	22.0	28.0	25.0	14.0
Indicator value	98.1%	98.4%	98.8%	98.7%	98.6%	98.1%	98.9%	98.9%

Licensee Comments: none

ERO Drill Participation



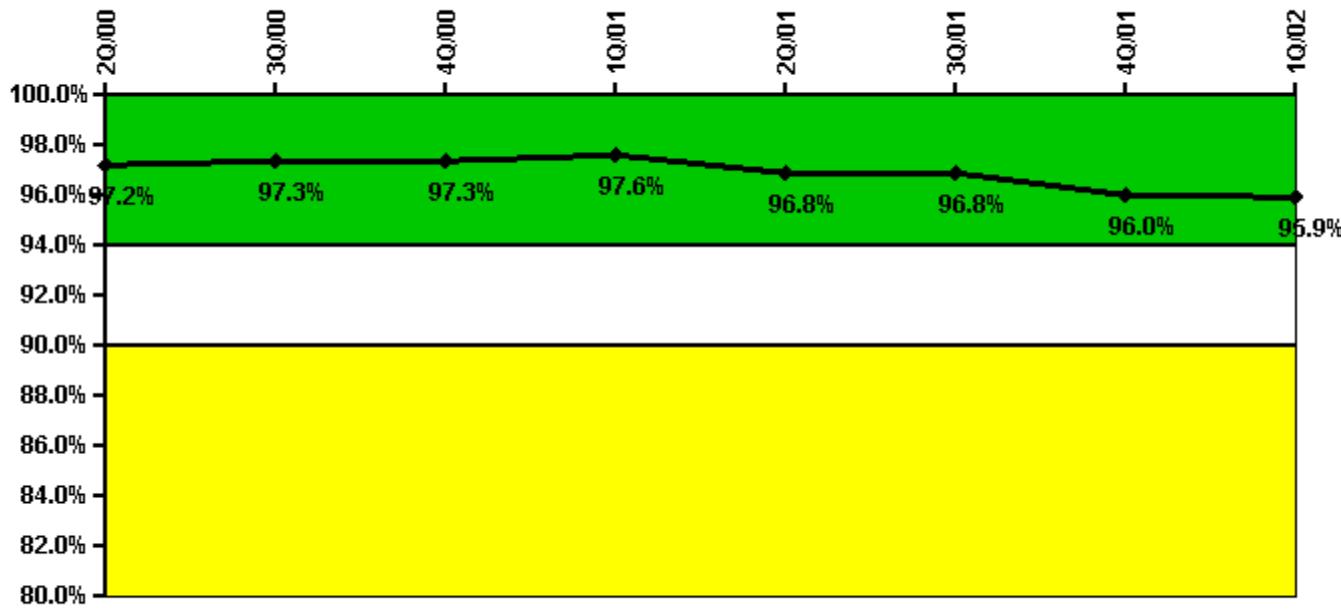
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Participating Key personnel	56.0	55.0	54.0	53.0	59.0	57.0	57.0	58.0
Total Key personnel	57.0	56.0	55.0	54.0	60.0	57.0	59.0	59.0
Indicator value	98.2%	98.2%	98.2%	98.1%	98.3%	100.0%	96.6%	98.3%

Licensee Comments: none

Alert & Notification System

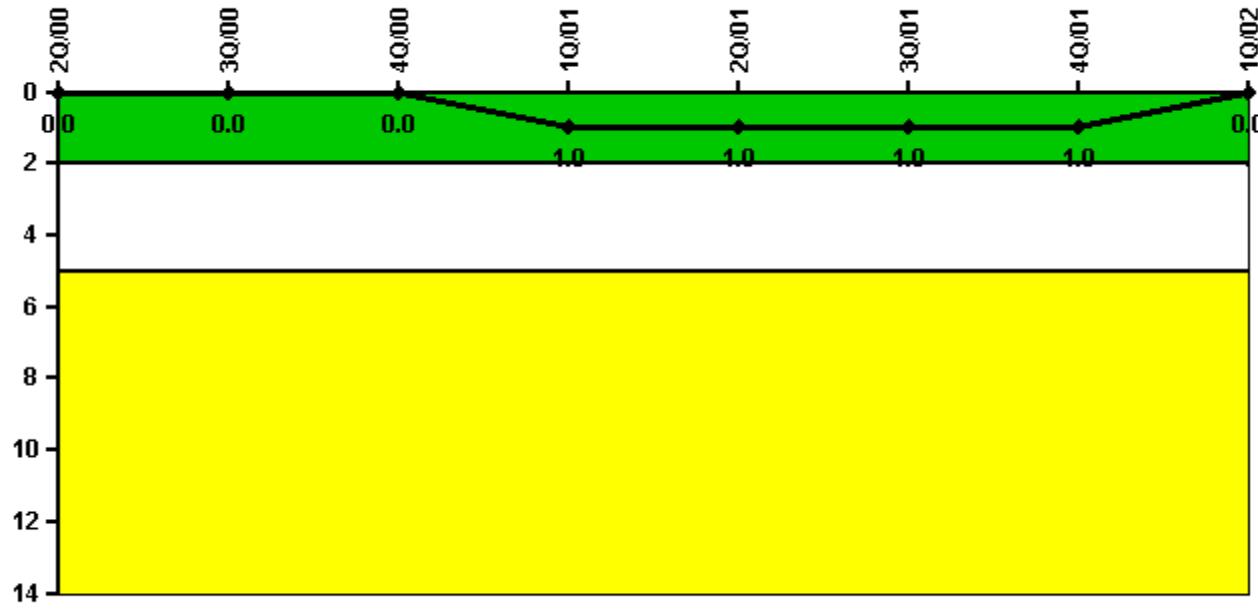


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful siren-tests	929	906	1039	990	944	969	1078	918
Total sirens-tests	955	936	1068	1002	1002	1002	1140	930
Indicator value	97.2%	97.3%	97.3%	97.6%	96.8%	96.8%	96.0%	95.9%

Licensee Comments: none

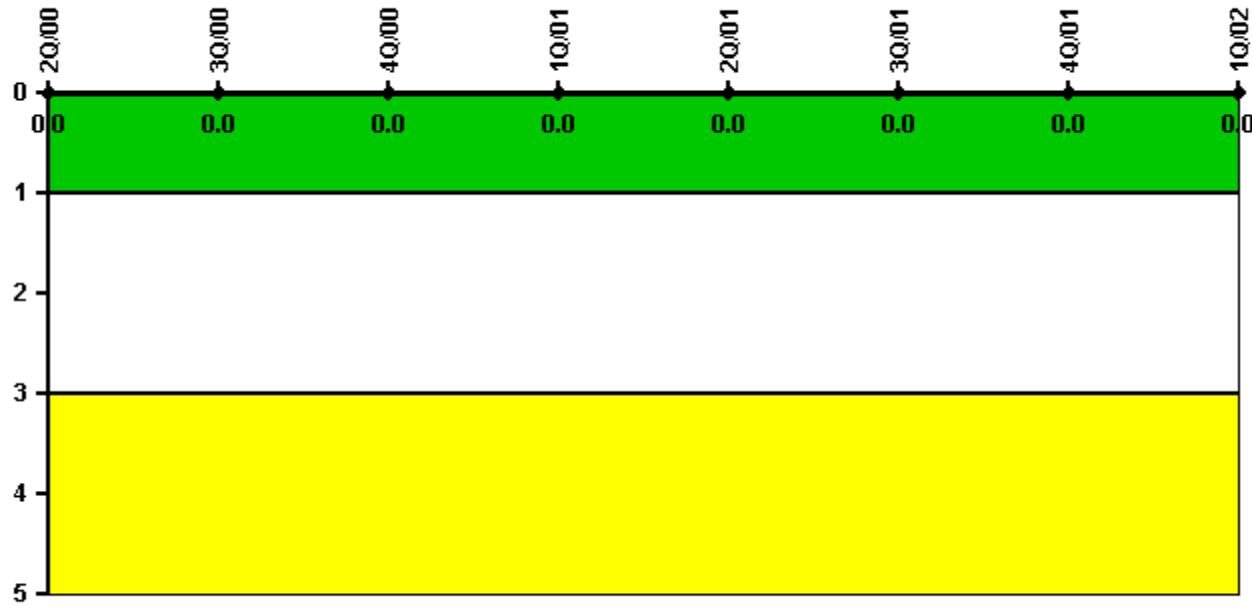
Occupational Exposure Control Effectiveness

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	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

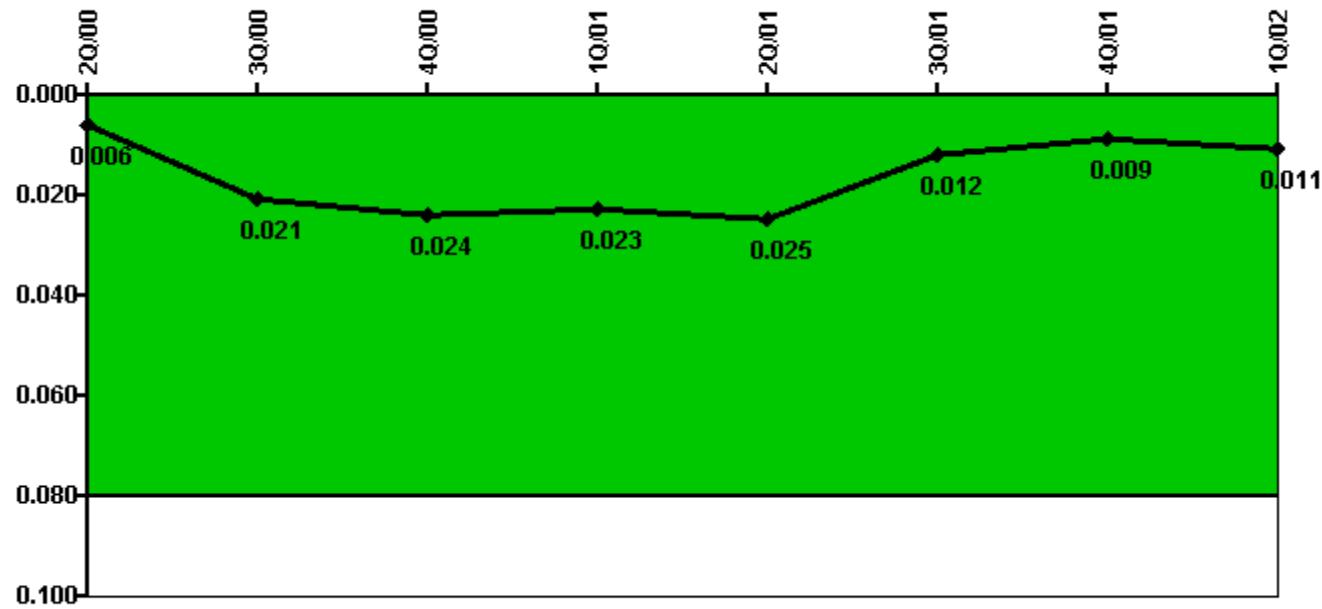
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

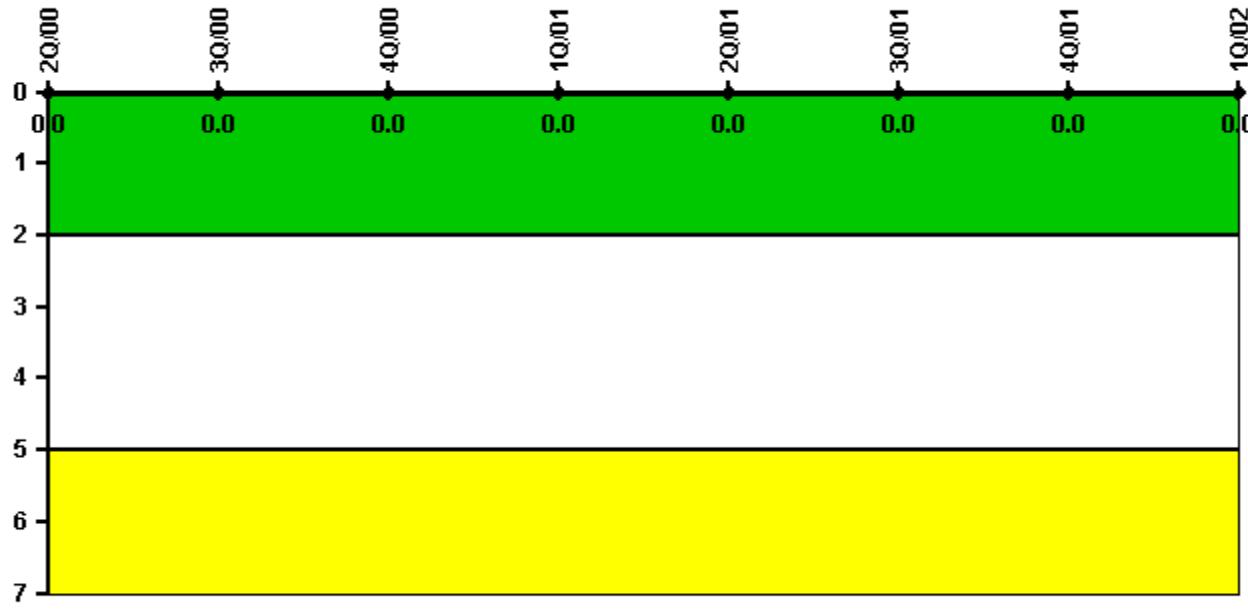


Thresholds: White > 0.080

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	38.60	390.70	116.70	14.80	85.60	69.60	39.90	51.10
CCTV compensatory hours	0	0	0	0	0	0	0	19.5
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Index Value	0.006	0.021	0.024	0.023	0.025	0.012	0.009	0.011

Licensee Comments: none

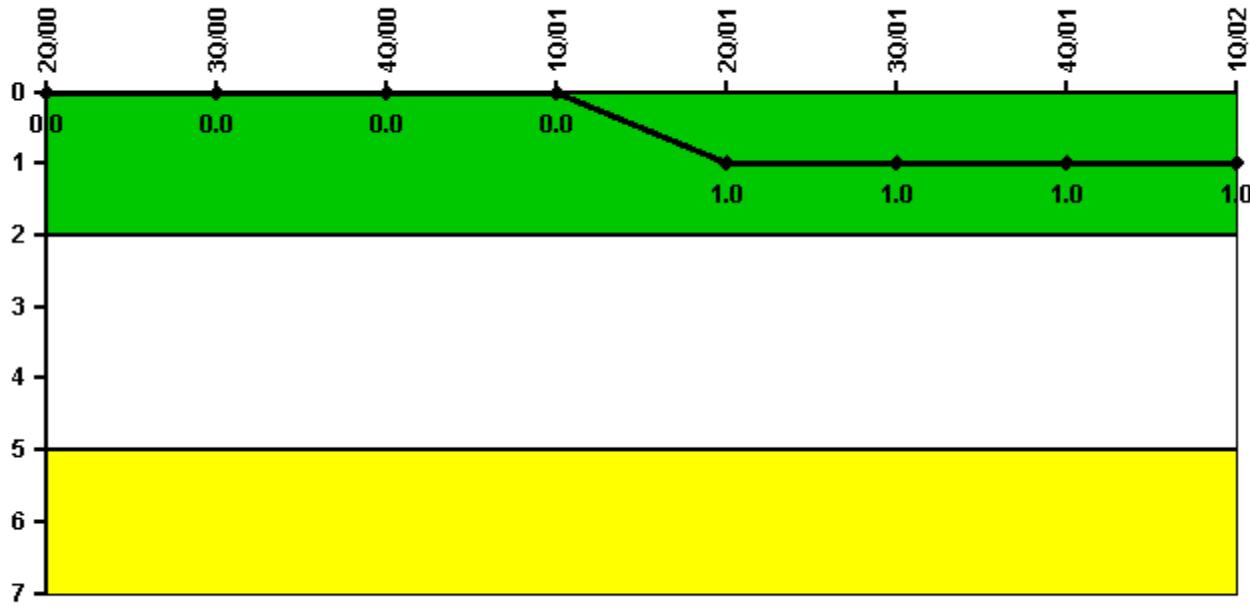
Personnel Screening Program

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

Licensee Comments: none



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

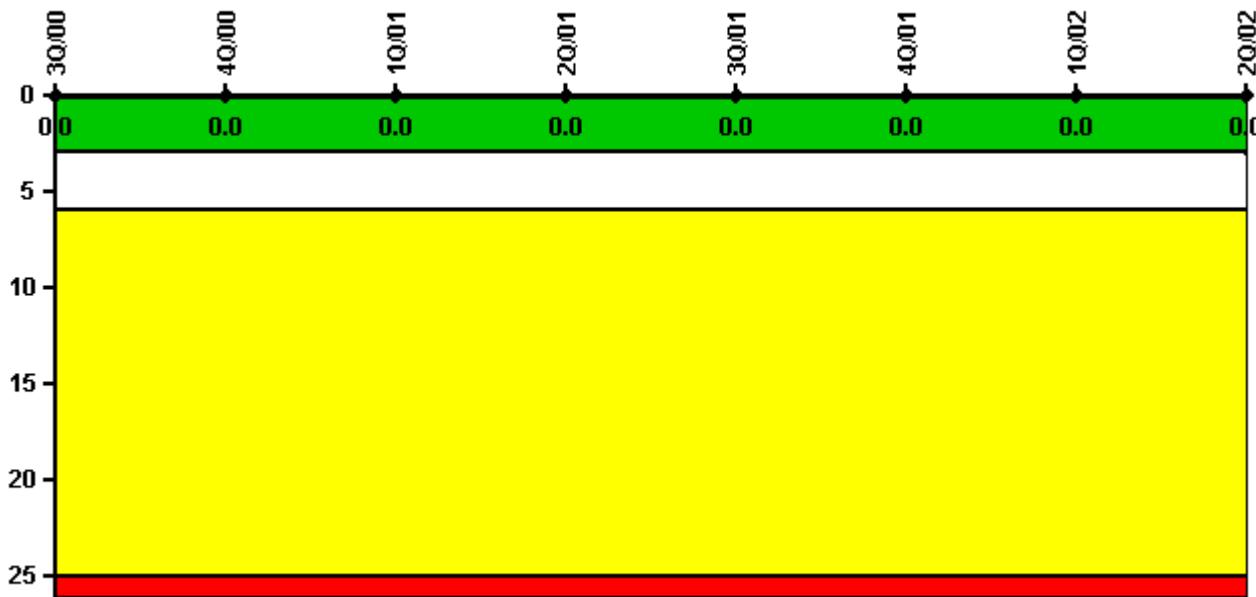
Last Modified: May 1, 2002

Calvert Cliffs 2

2Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

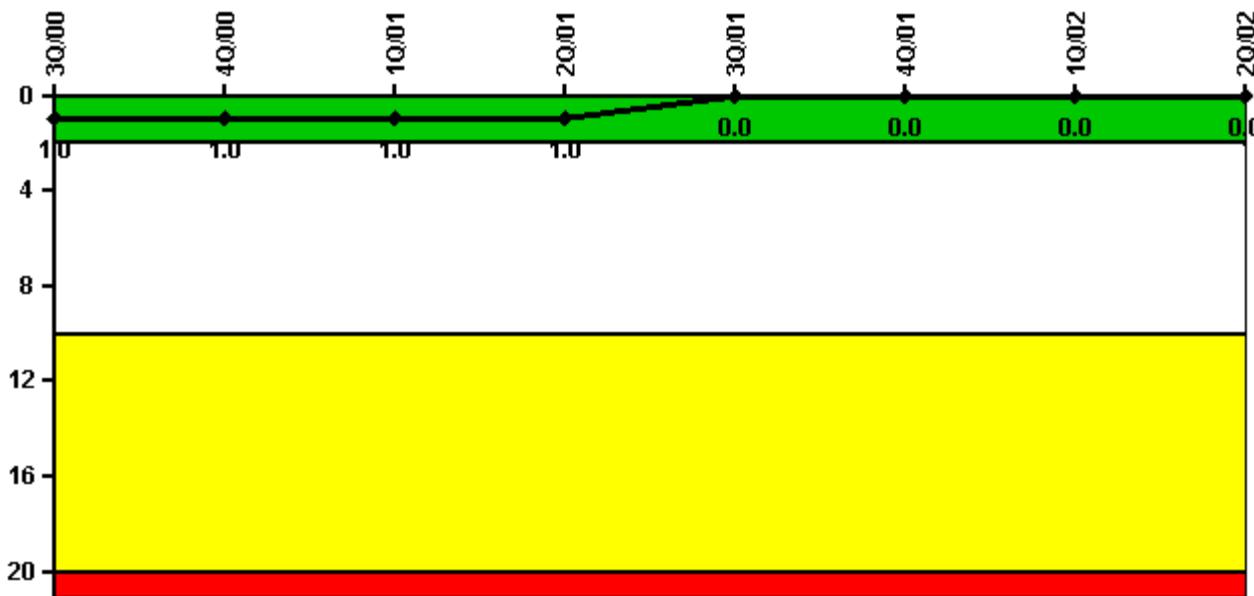


Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0
Critical hours	2208.0	2209.0	1800.0	1163.4	2208.0	2162.9	2160.0	2183.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

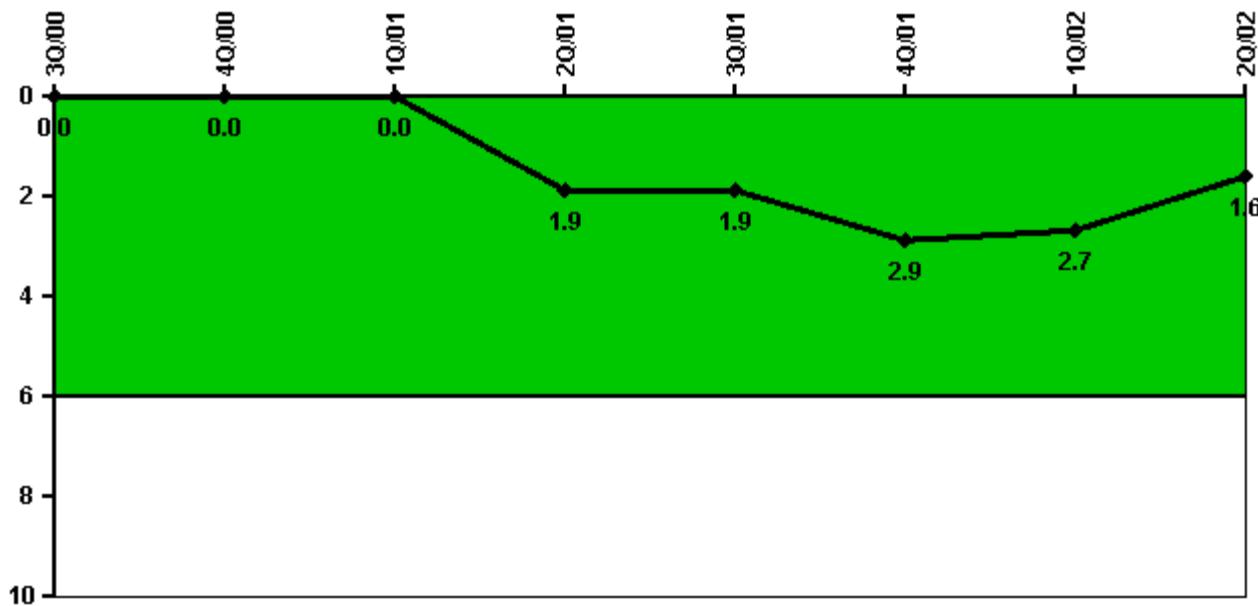
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



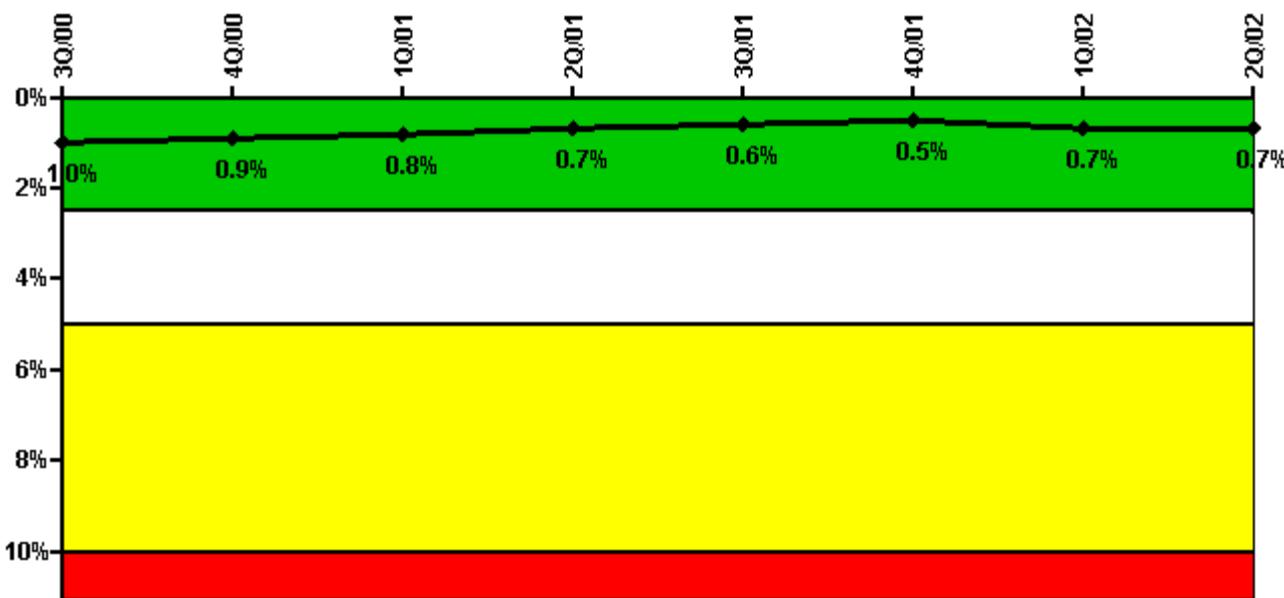
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned power changes	0	0	0	2.0	0	1.0	0	1.0
Critical hours	2208.0	2209.0	1800.0	1163.4	2208.0	2162.9	2160.0	2183.0
Indicator value	0	0	0	1.9	1.9	2.9	2.7	1.6

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



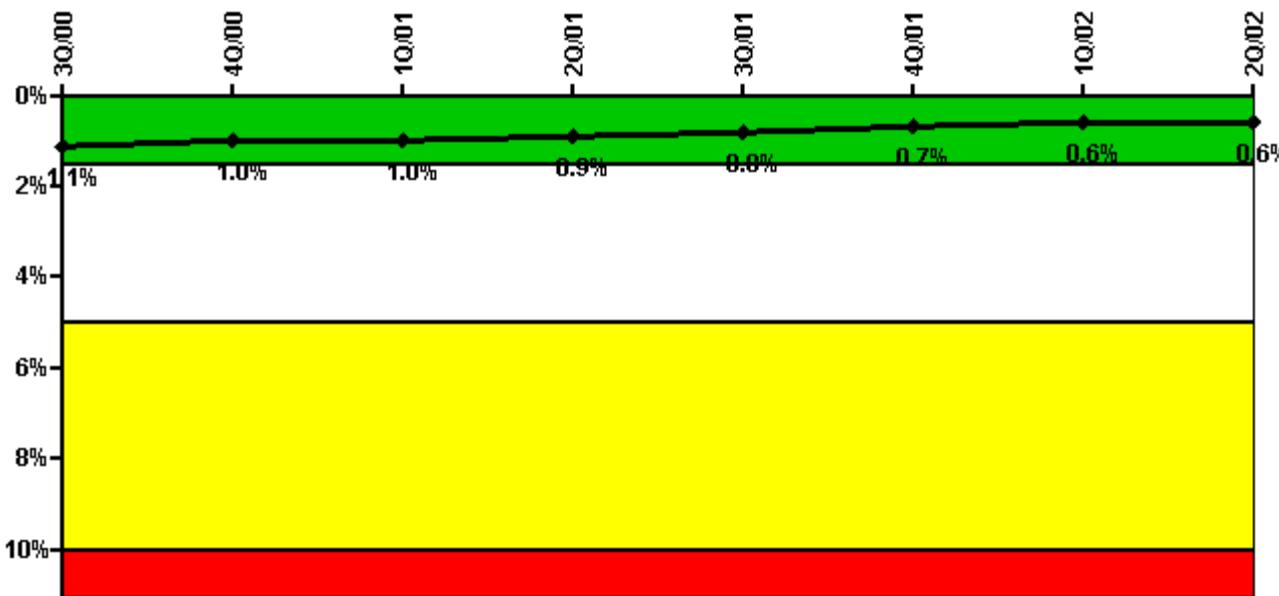
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	0	0	15.33	0.83	34.50	0.50	1.33	13.50
Unplanned unavailable hours	0	0	0	0	17.27	9.27	143.98	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	2160.00	2183.00
Train 2								
Planned unavailable hours	0	0.50	37.40	0	0	0.25	0	2.70
Unplanned unavailable hours	0	0	0.25	0	0	0	12.25	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	2160.00	2183.00
Indicator value	1.0%	0.9%	0.8%	0.7%	0.6%	0.5%	0.7%	0.7%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



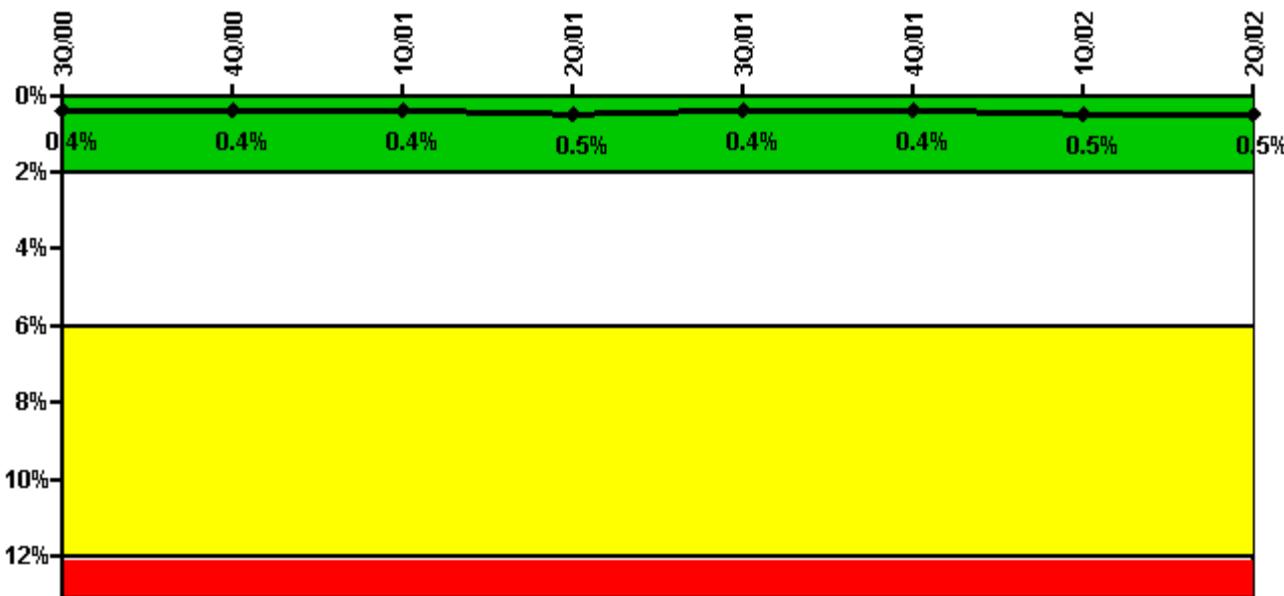
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	1.35	15.63	36.34	1.54	0.27	9.94	20.17	0.30
Unplanned unavailable hours	0	7.33	0	0	0	9.27	0	11.70
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	1800.00	1163.30	2208.00	2162.90	2160.00	2183.00
Train 2								
Planned unavailable hours	26.17	1.13	19.27	1.54	17.47	0.54	17.45	0.30
Unplanned unavailable hours	0	0	0	0	0	0.47	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	1800.00	1163.30	2208.00	2162.90	2160.00	2183.00
Indicator value	1.1%	1.0%	1.0%	0.9%	0.8%	0.7%	0.6%	0.6%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



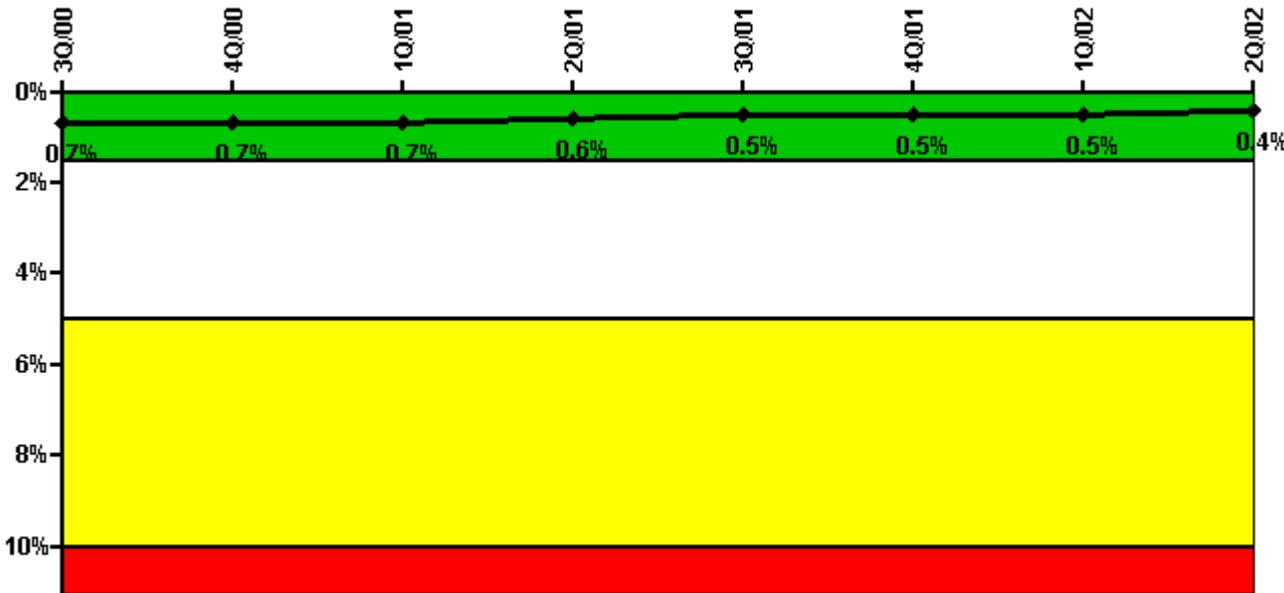
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	1.00	2.75	2.33	18.04	8.91	0.08	22.42	2.20
Unplanned unavailable hours	0	0	0	0	6.58	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	2208.00	2209.00	1800.00	1163.30	2208.00	2162.90	2160.00	2183.00
Train 2								
Planned unavailable hours	1.00	2.75	2.33	22.28	13.67	0.17	22.42	2.70
Unplanned unavailable hours	0	0	0	0	6.58	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	2208.00	2209.00	1800.00	1163.30	2208.00	2162.90	2160.00	2183.00
Train 3								
Planned unavailable hours	5.23	3.83	0	31.95	38.92	13.07	0	4.60
Unplanned unavailable hours	0	0	0	0	0.58	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	2208.00	2209.00	1800.00	1163.30	2208.00	2162.90	2160.00	2183.00
Indicator value	0.4%	0.4%	0.4%	0.5%	0.4%	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%

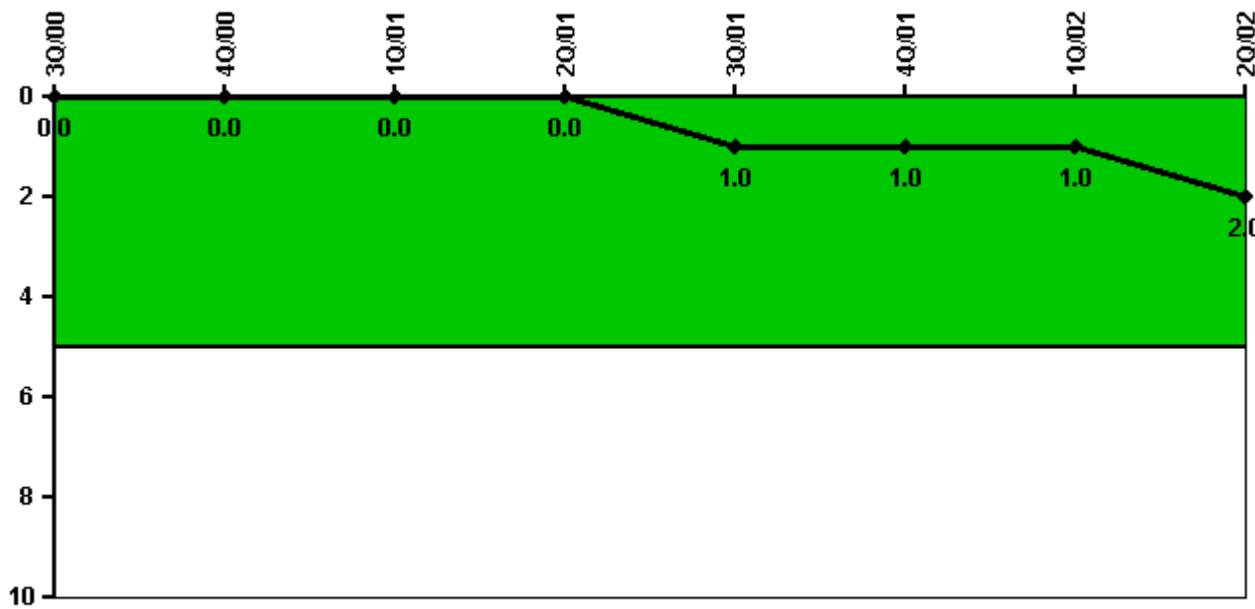
Notes

Safety System Unavailability, Residual Heat Removal System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	0	0	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	0	0	336.80	935.40	0	19.30	0	0
Train 2								
Planned unavailable hours	0	0	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	0	0	336.80	935.40	0	19.30	0	0
Train 3								
Planned unavailable hours	1.42	17.30	34.49	4.24	2.62	25.68	21.59	18.10
Unplanned unavailable hours	0	7.33	0	0	0	9.27	0	11.70
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	1823.20	1247.60	2208.00	2189.70	2160.00	2183.00
Train 4								
Planned unavailable hours	26.41	2.23	28.40	4.52	22.54	1.91	18.47	6.40

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	1823.20	1247.60	2208.00	2189.70	2160.00	2183.00
Indicator value	0.7%	0.7%	0.7%	0.6%	0.5%	0.5%	0.5%	0.4%

Licensee Comments: none

Safety System Functional Failures (PWR)



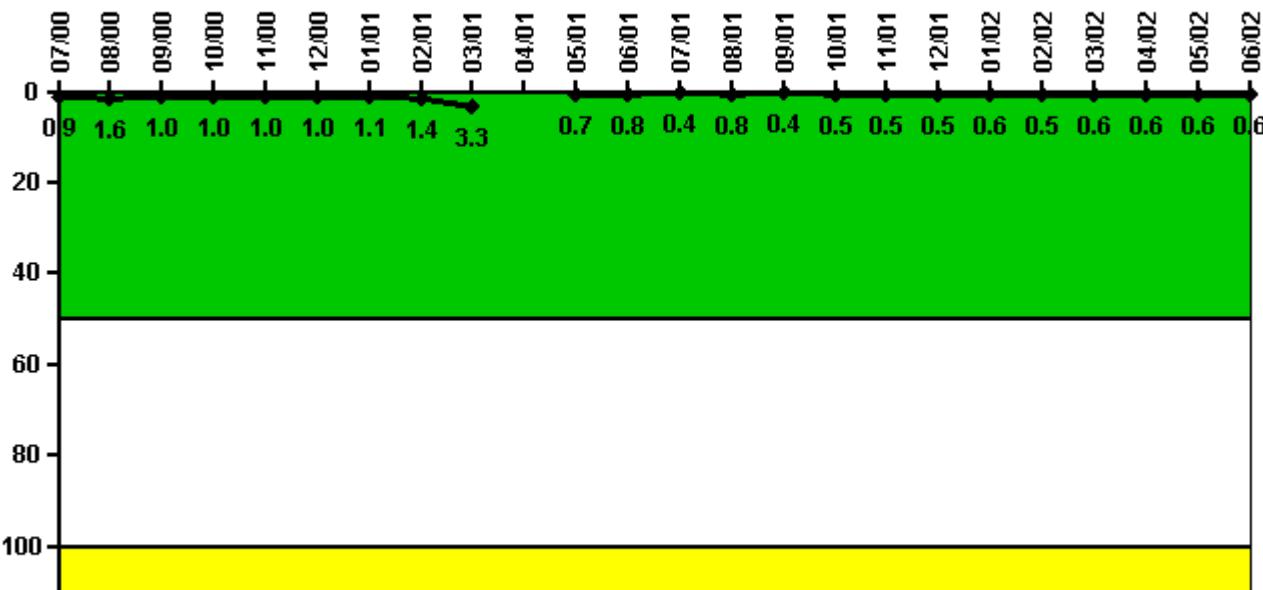
Thresholds: White > 5.0

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	0	0	1	0	0	1
Indicator value	0	0	0	0	1	1	1	2

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

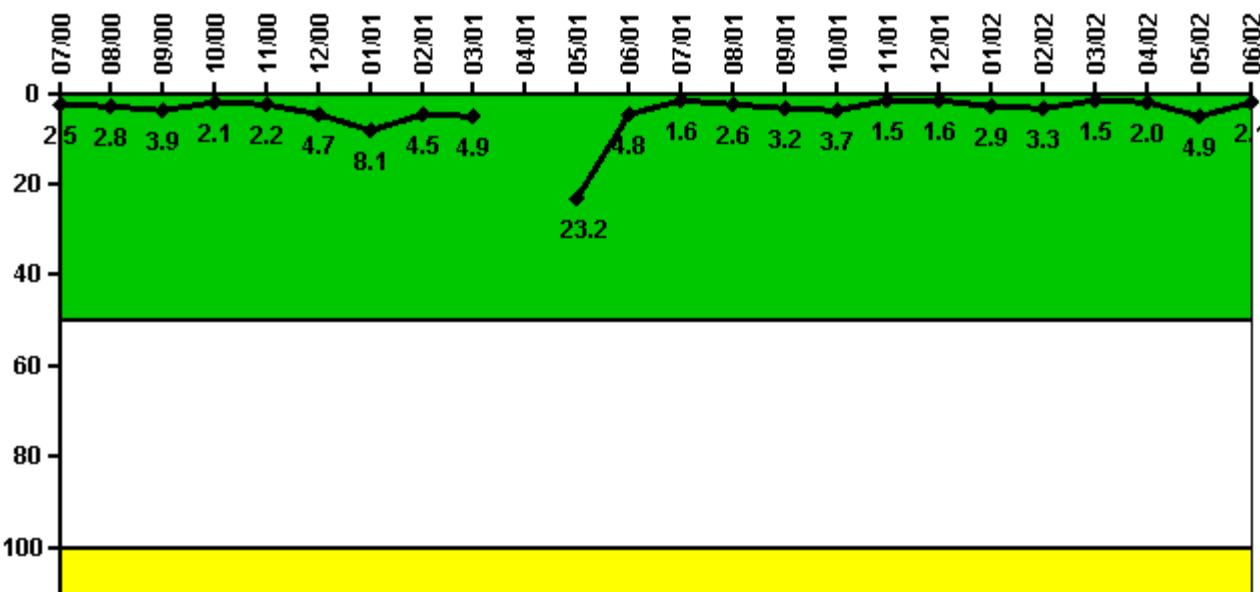
Notes

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	0.008910	0.016400	0.009940	0.009960	0.010200	0.010400	0.011200	0.013600	0.032800	N/A	0.007460	0.007800
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	0.9	1.6	1.0	1.0	1.0	1.0	1.1	1.4	3.3	N/A	0.7	0.8

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	0.003780	0.007770	0.004230	0.004620	0.004720	0.005170	0.005730	0.005470	0.005600	0.005600	0.006010	0.006200
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	0.4	0.8	0.4	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.6

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

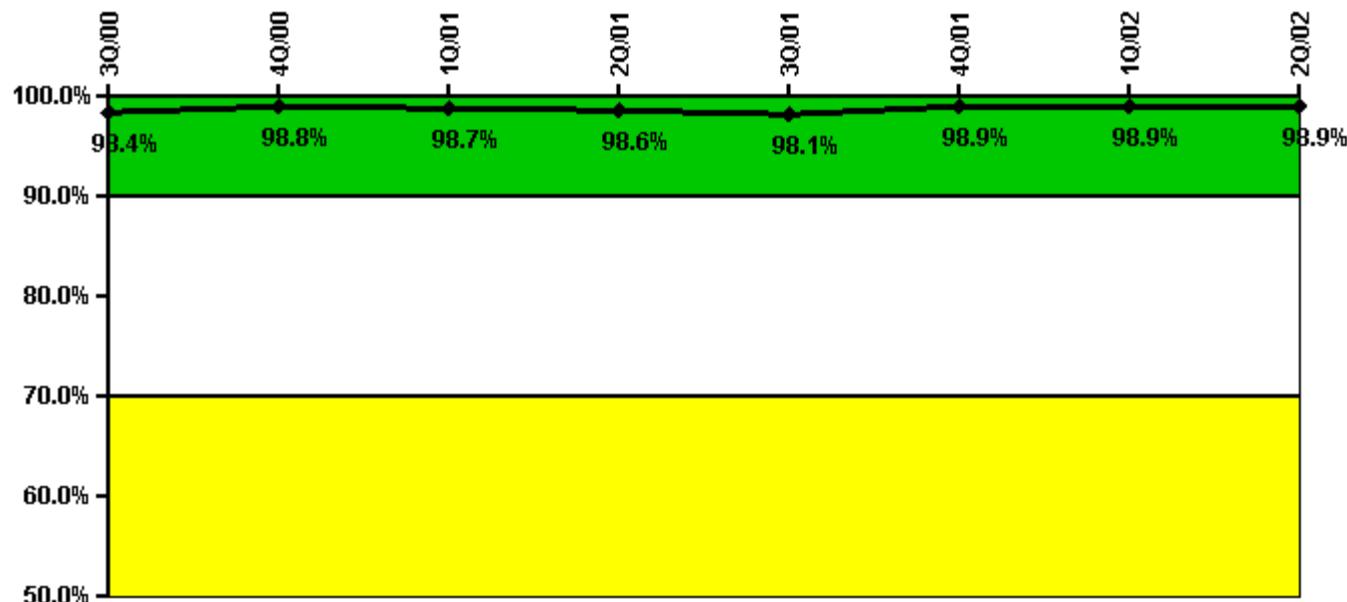
Notes

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	0.254	0.277	0.393	0.212	0.224	0.471	0.814	0.450	0.488	N/A	2.320	0.480
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	2.5	2.8	3.9	2.1	2.2	4.7	8.1	4.5	4.9	N/A	23.2	4.8

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	0.155	0.260	0.317	0.370	0.150	0.160	0.289	0.331	0.145	0.200	0.486	0.211
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	1.6	2.6	3.2	3.7	1.5	1.6	2.9	3.3	1.5	2.0	4.9	2.1

Licensee Comments: none

Drill/Exercise Performance



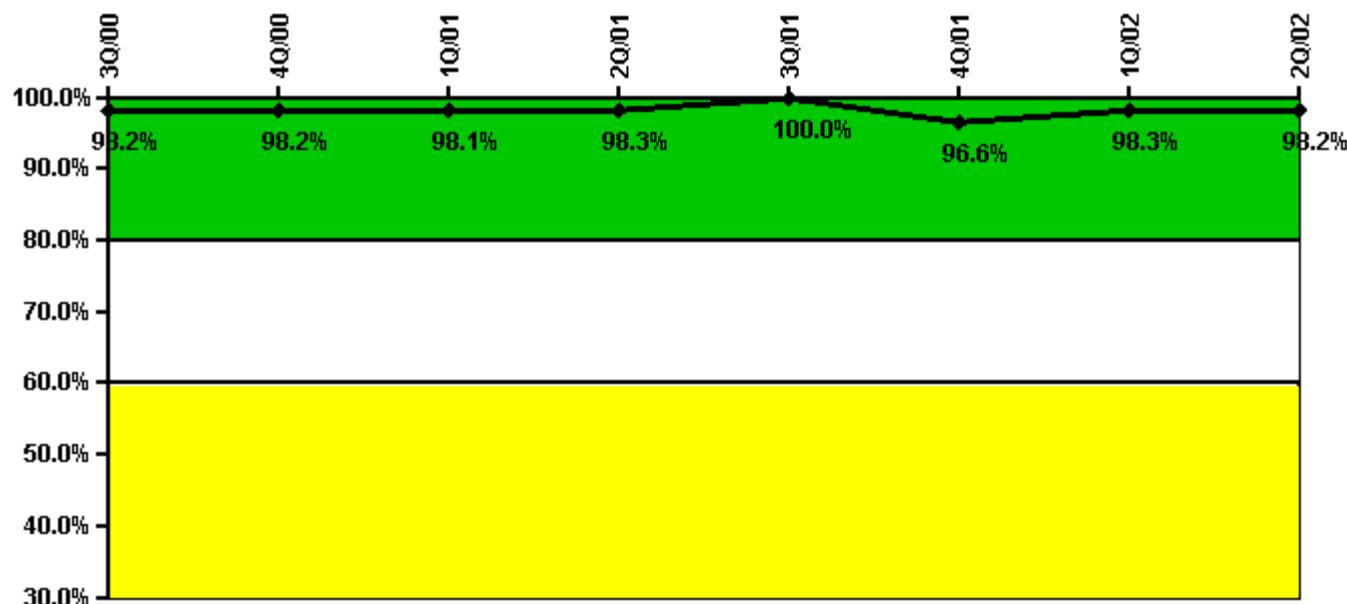
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful opportunities	32.0	33.0	11.0	22.0	27.0	25.0	14.0	8.0
Total opportunities	33.0	33.0	11.0	22.0	28.0	25.0	14.0	8.0
Indicator value	98.4%	98.8%	98.7%	98.6%	98.1%	98.9%	98.9%	98.9%

Licensee Comments: none

ERO Drill Participation



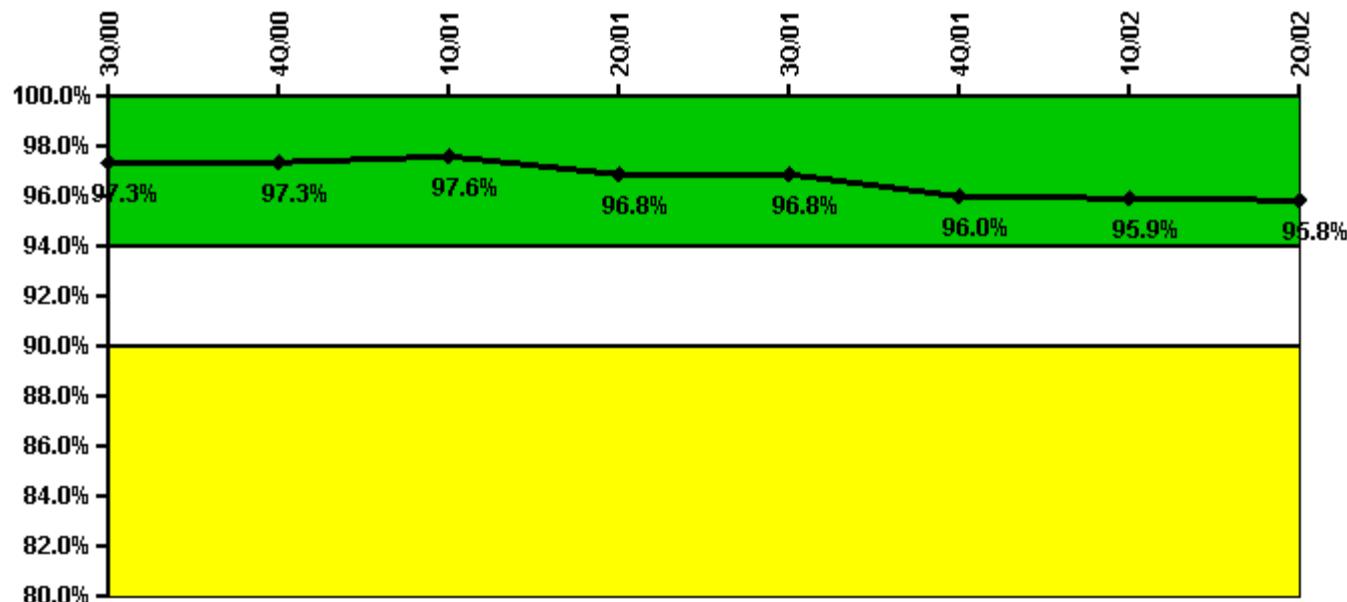
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Participating Key personnel	55.0	54.0	53.0	59.0	57.0	57.0	58.0	54.0
Total Key personnel	56.0	55.0	54.0	60.0	57.0	59.0	59.0	55.0
Indicator value	98.2%	98.2%	98.1%	98.3%	100.0%	96.6%	98.3%	98.2%

Licensee Comments: none

Alert & Notification System



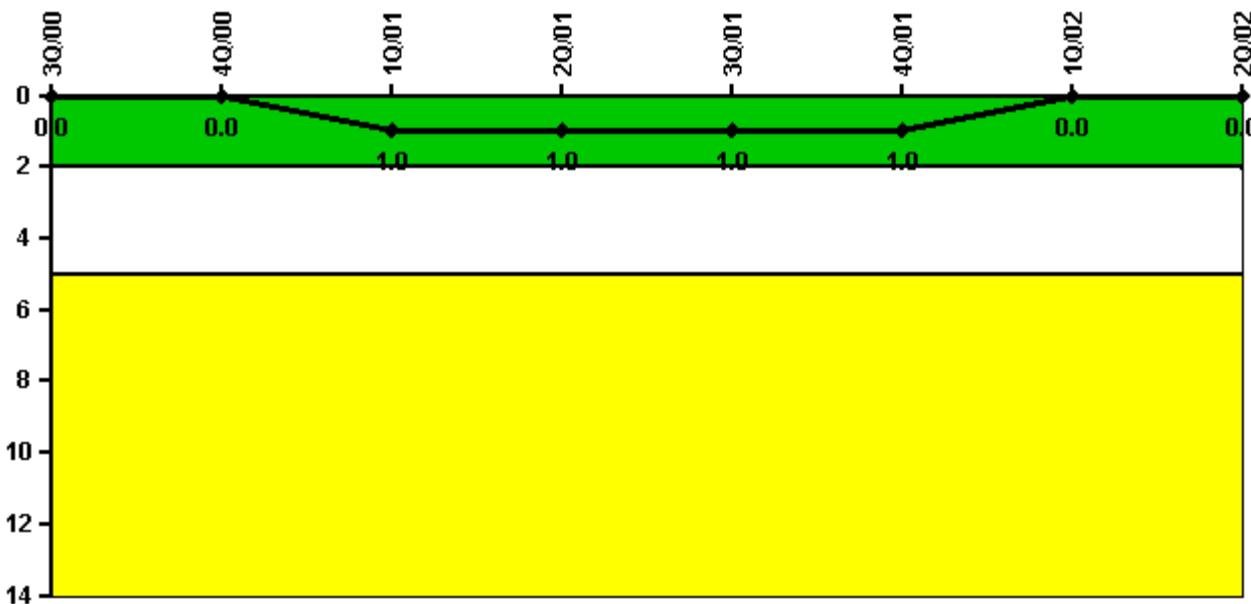
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful siren-tests	906	1039	990	944	969	1078	918	956
Total sirens-tests	936	1068	1002	1002	1002	1140	930	1019
Indicator value	97.3%	97.3%	97.6%	96.8%	96.8%	96.0%	95.9%	95.8%

Licensee Comments:

2Q/02: Calvert Cliffs Nuclear Power Plant is planning to submit a FAQ to resolve an issue concerning how to report multiple siren signal transmissions and receipts during silent testing.

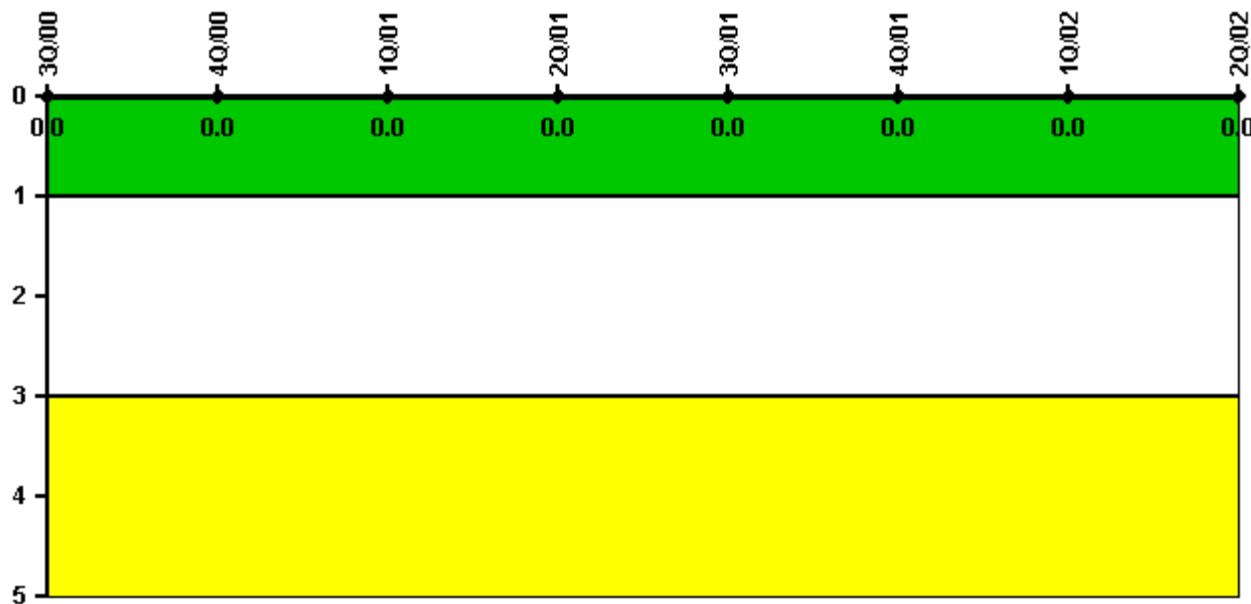
Occupational Exposure Control Effectiveness

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	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

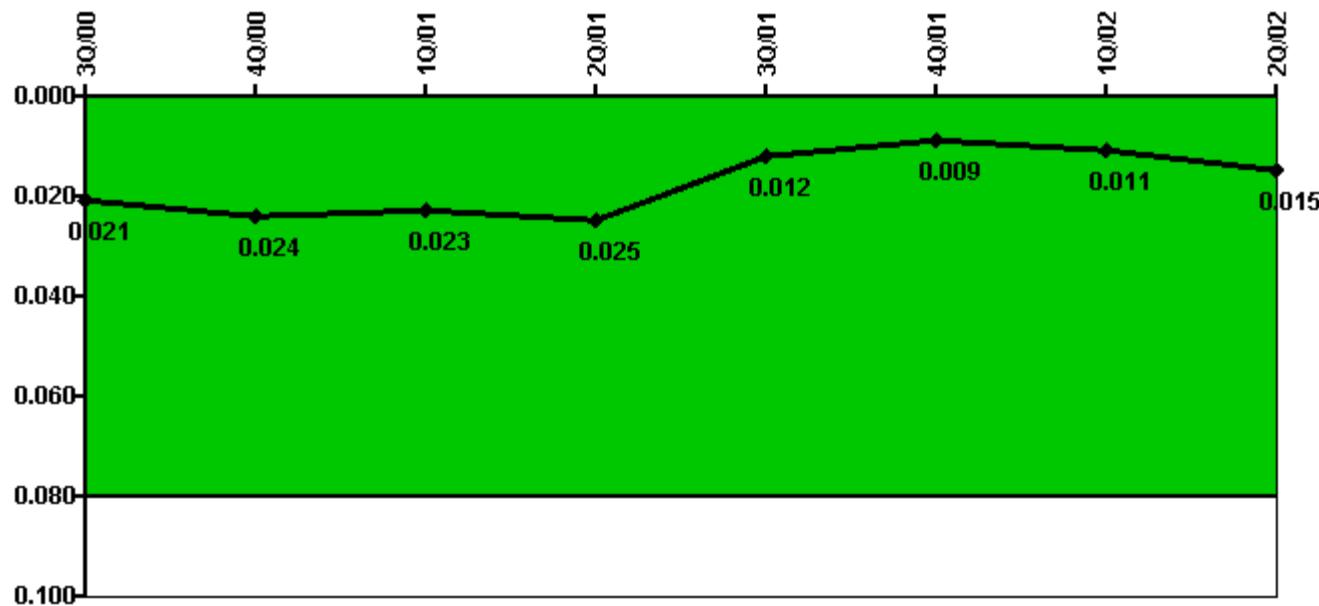
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

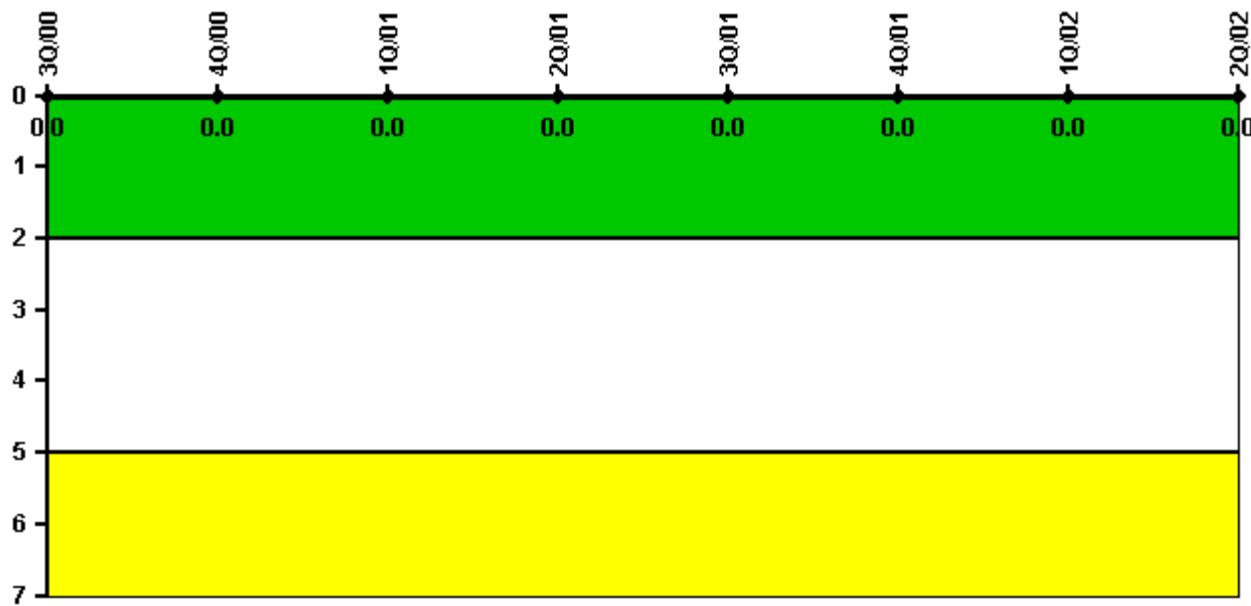


Thresholds: White > 0.080

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	390.70	116.70	14.80	85.60	69.60	39.90	51.10	162.40
CCTV compensatory hours	0	0	0	0	0	0	19.5	19.5
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Index Value	0.021	0.024	0.023	0.025	0.012	0.009	0.011	0.015

Licensee Comments: none

Personnel Screening Program

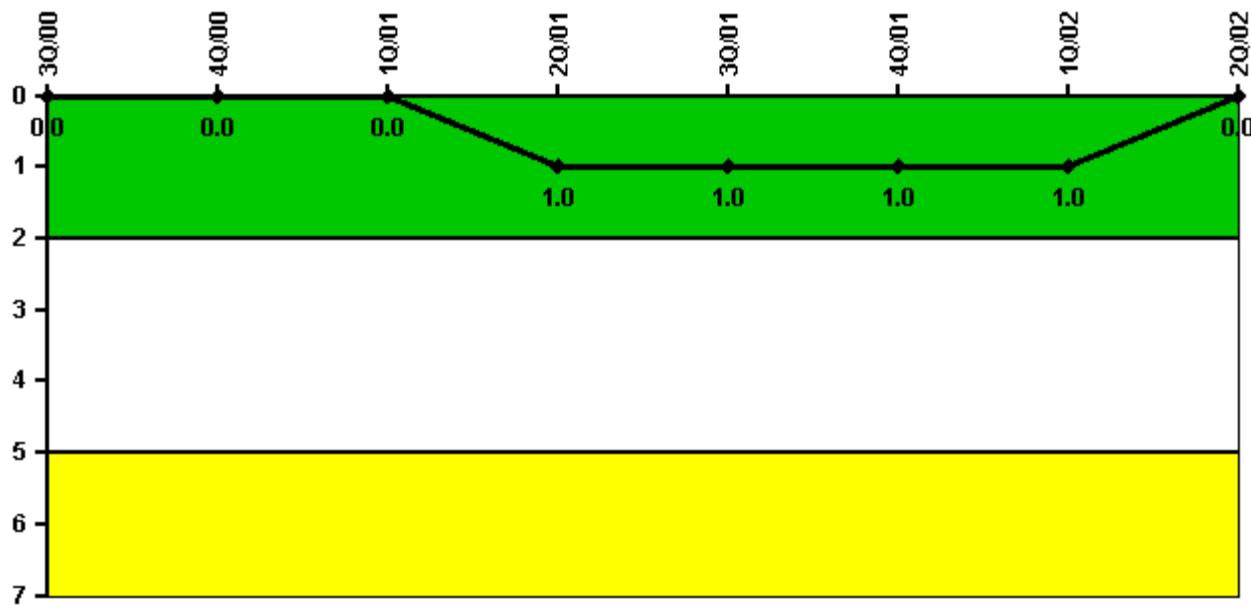
Thresholds: White > 2.0 Yellow > 5.0

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	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

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	1	0	0	0	0
Indicator value	0	0	0	1	1	1	1	0

Licensee Comments: none



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

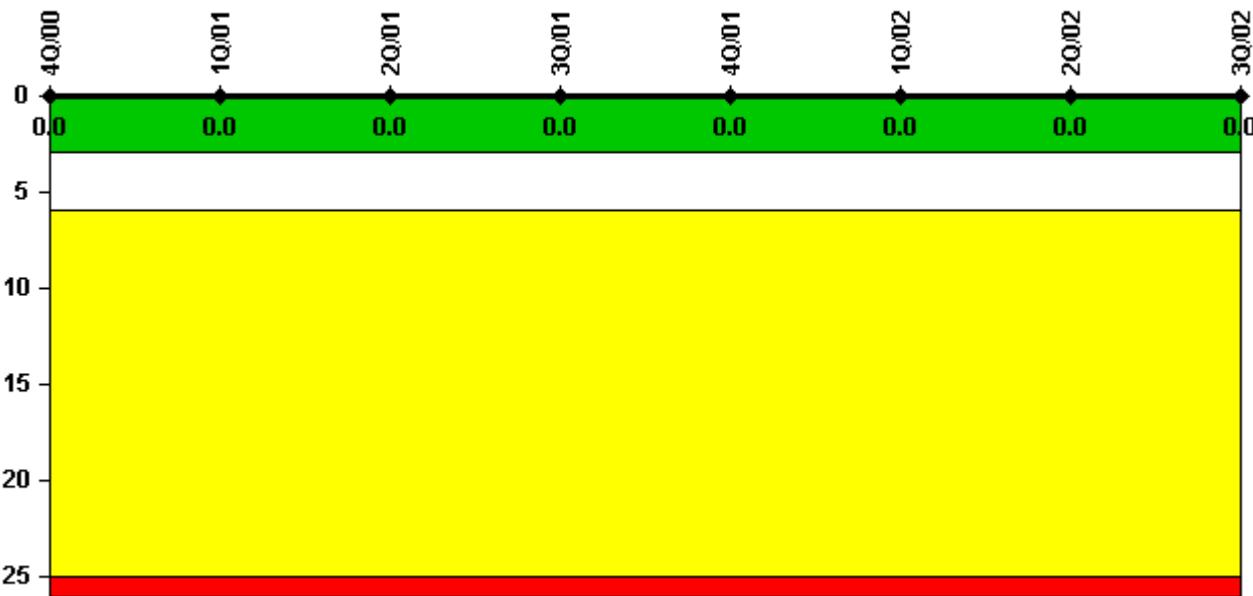
Last Modified: July 31, 2002

Calvert Cliffs 2

3Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

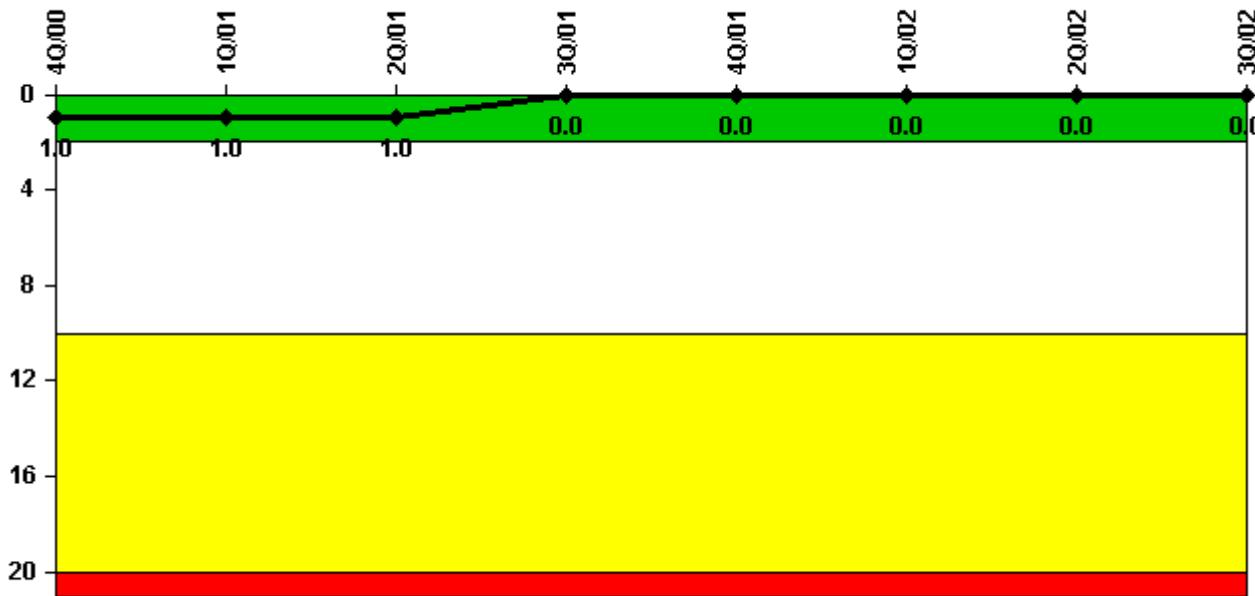


Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0
Critical hours	2209.0	1800.0	1163.4	2208.0	2162.9	2160.0	2183.0	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

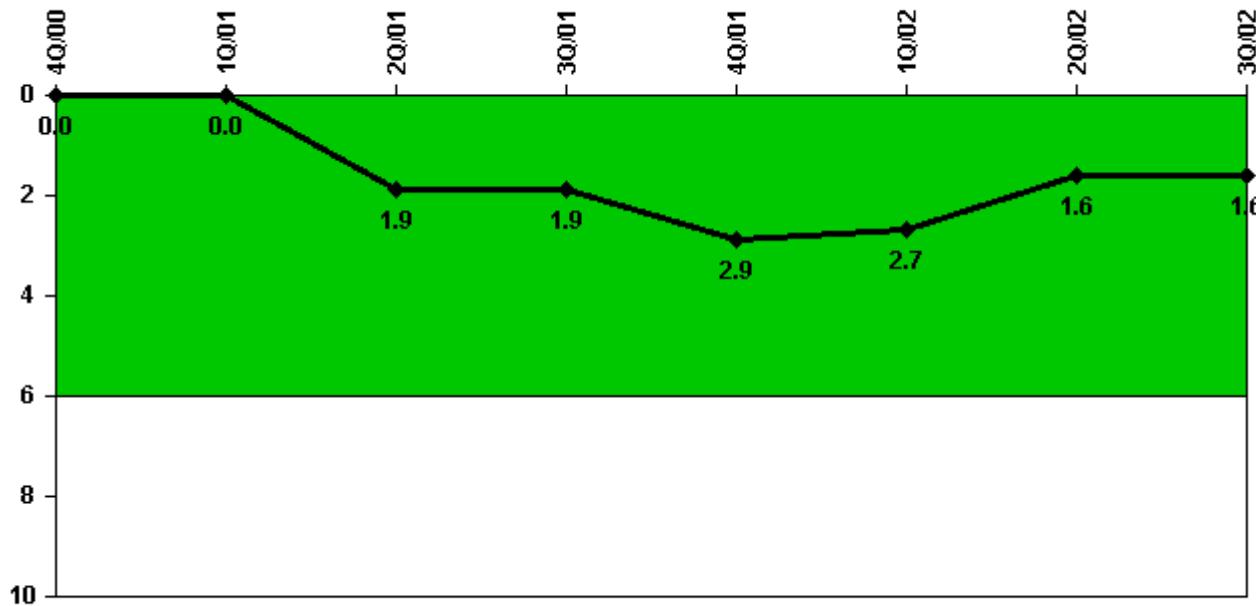
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



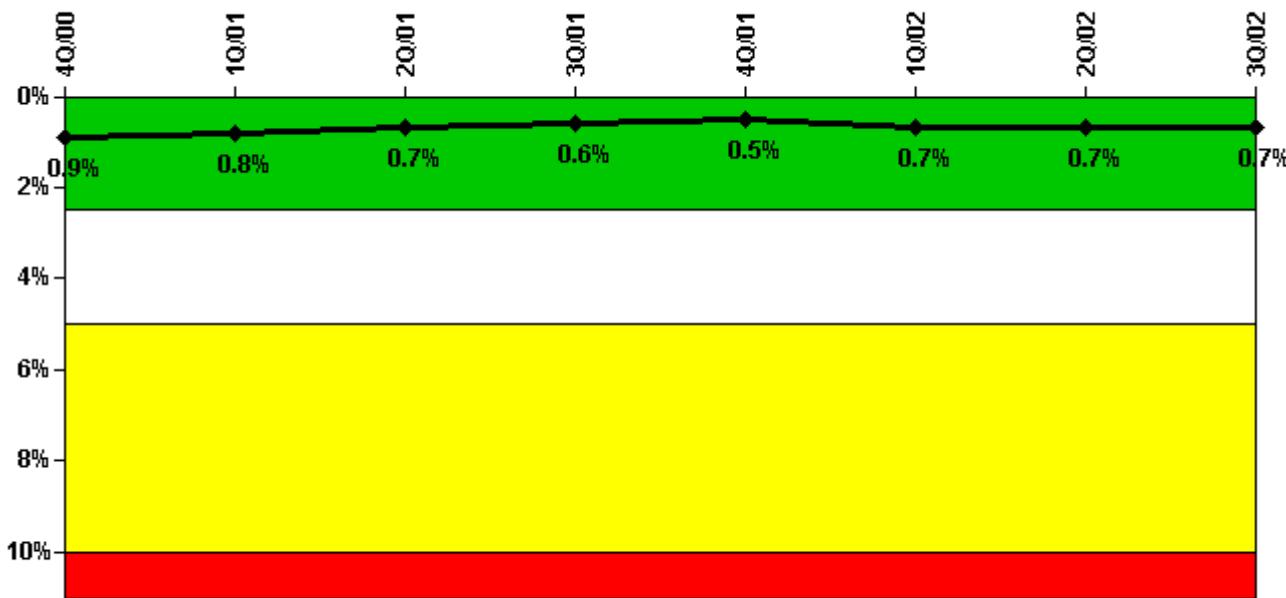
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned power changes	0	0	2.0	0	1.0	0	1.0	0
Critical hours	2209.0	1800.0	1163.4	2208.0	2162.9	2160.0	2183.0	2208.0
Indicator value	0	0	1.9	1.9	2.9	2.7	1.6	1.6

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



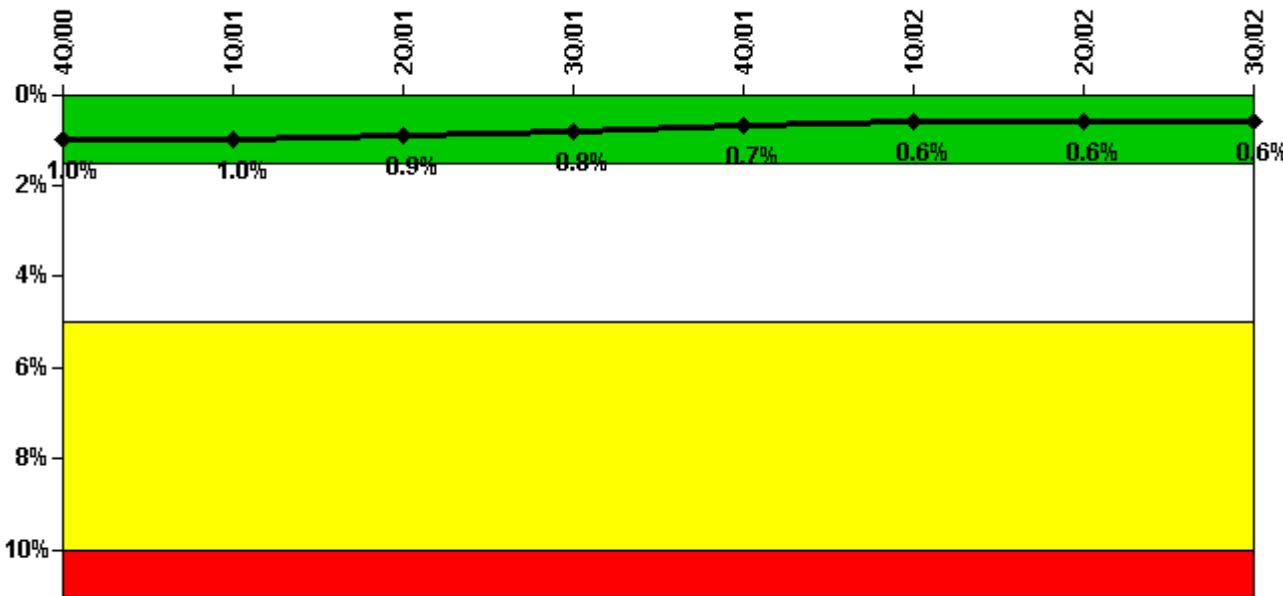
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	0	15.33	0.83	34.50	0.50	1.33	13.50	0
Unplanned unavailable hours	0	0	0	17.27	9.27	143.98	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	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0.50	37.40	0	0	0.25	0	2.70	13.27
Unplanned unavailable hours	0	0.25	0	0	0	12.25	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	2160.00	2183.00	2208.00
Indicator value	0.9%	0.8%	0.7%	0.6%	0.5%	0.7%	0.7%	0.7%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



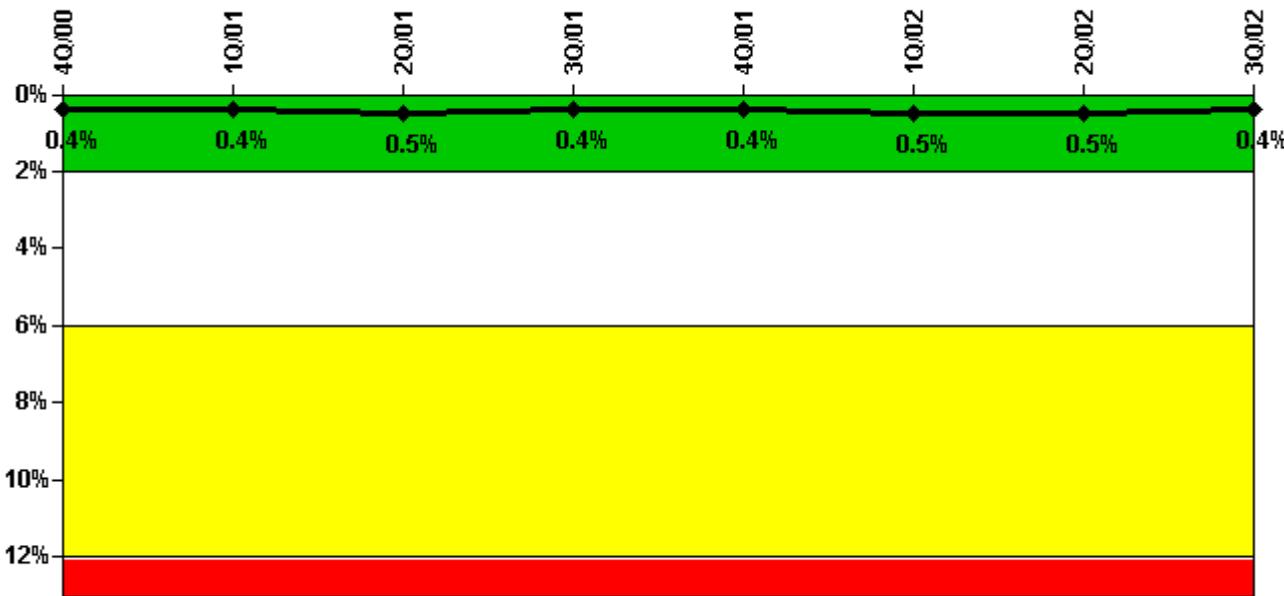
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	15.63	36.34	1.54	0.27	9.94	20.17	0.30	2.42
Unplanned unavailable hours	7.33	0	0	0	9.27	0	11.70	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	1800.00	1163.30	2208.00	2162.90	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	1.13	19.27	1.54	17.47	0.54	17.45	0.30	34.49
Unplanned unavailable hours	0	0	0	0	0.47	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	1800.00	1163.30	2208.00	2162.90	2160.00	2183.00	2208.00
Indicator value	1.0%	1.0%	0.9%	0.8%	0.7%	0.6%	0.6%	0.6%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



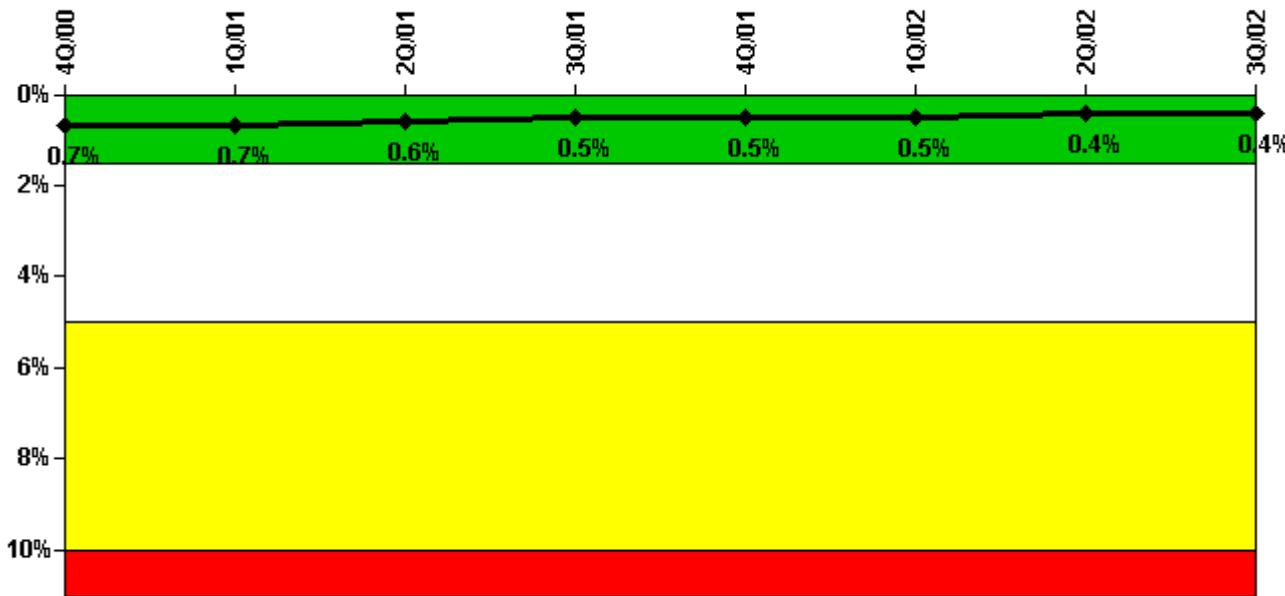
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	2.75	2.33	18.04	8.91	0.08	22.42	2.20	0
Unplanned unavailable hours	0	0	0	6.58	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	2209.00	1800.00	1163.30	2208.00	2162.90	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	2.75	2.33	22.28	13.67	0.17	22.42	2.70	0.47
Unplanned unavailable hours	0	0	0	6.58	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	2209.00	1800.00	1163.30	2208.00	2162.90	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	3.83	0	31.95	38.92	13.07	0	4.60	0
Unplanned unavailable hours	0	0	0	0.58	0	0	0	23.38
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	1800.00	1163.30	2208.00	2162.90	2160.00	2183.00	2208.00
Indicator value	0.4%	0.4%	0.5%	0.4%	0.4%	0.5%	0.5%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

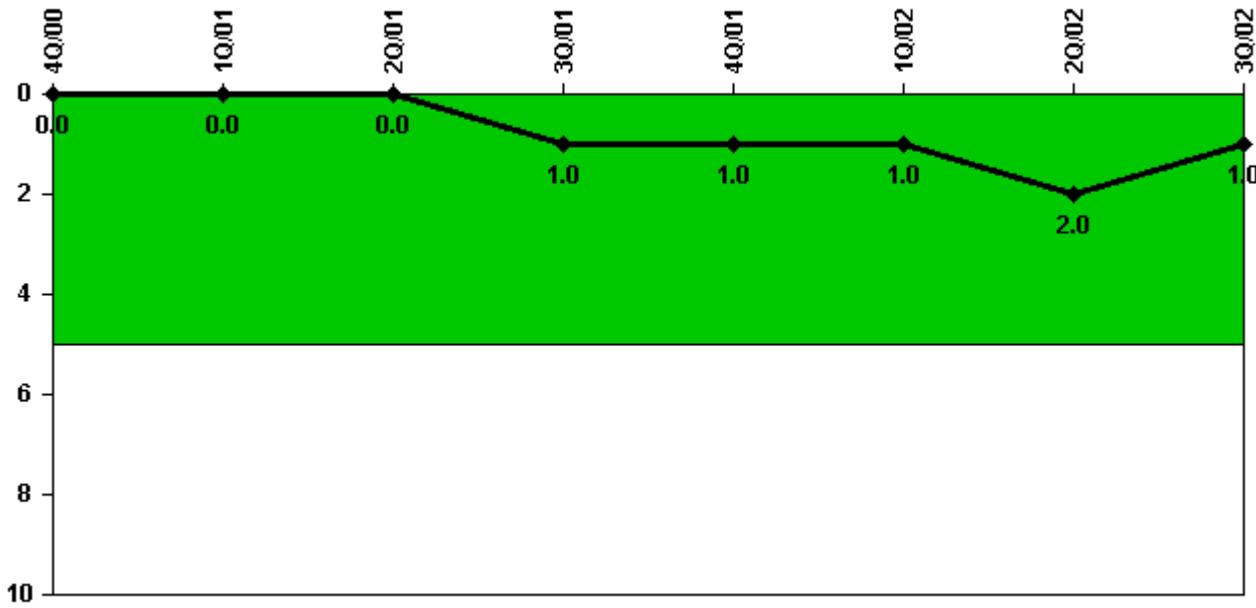


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	0	0	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	0	336.80	935.40	0	19.30	0	0	0
Train 2								
Planned unavailable hours	0	0	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	0	336.80	935.40	0	19.30	0	0	0
Train 3								
Planned unavailable hours	17.30	34.49	4.24	2.62	25.68	21.59	18.10	2.49
Unplanned unavailable hours	7.33	0	0	0	9.27	0	11.70	1.92
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	1823.20	1247.60	2208.00	2189.70	2160.00	2183.00	2208.00
Train 4								
Planned unavailable hours	2.23	28.40	4.52	22.54	1.91	18.47	6.40	42.50
Unplanned unavailable hours	0	0	0	0	0	0	0	3.15
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	1823.20	1247.60	2208.00	2189.70	2160.00	2183.00	2208.00
Indicator value	0.7%	0.7%	0.6%	0.5%	0.5%	0.5%	0.4%	0.4%

Licensee Comments: none

Safety System Functional Failures (PWR)

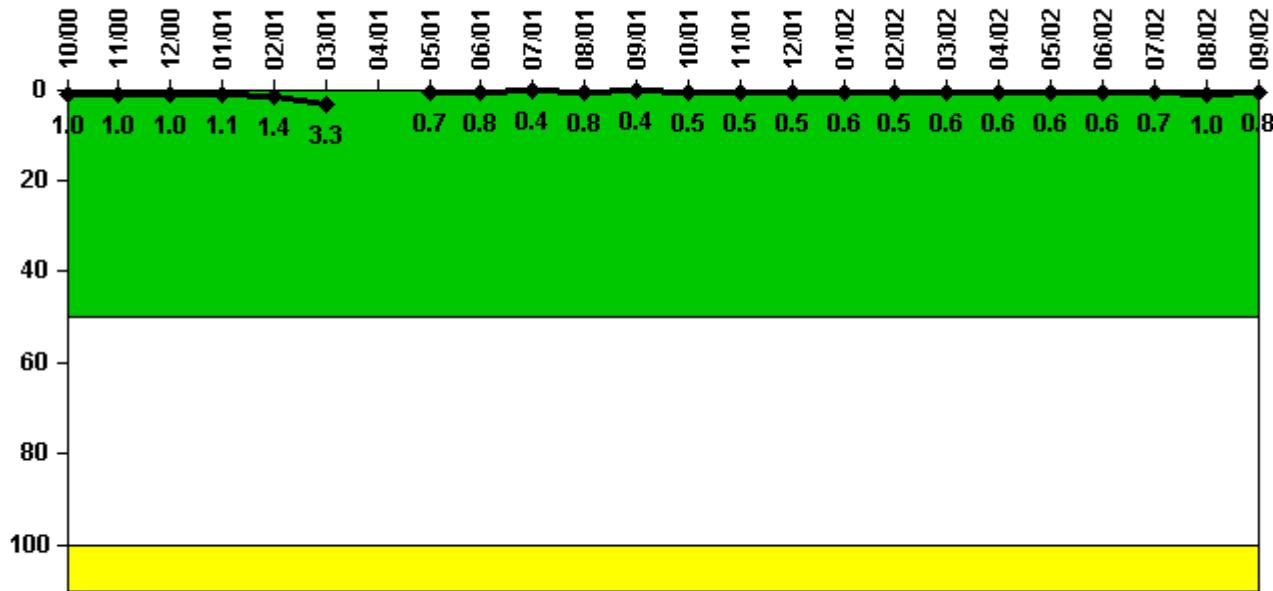
Thresholds: White > 5.0

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	0	0	1	0	0	1	0
Indicator value	0	0	0	1	1	1	2	1

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

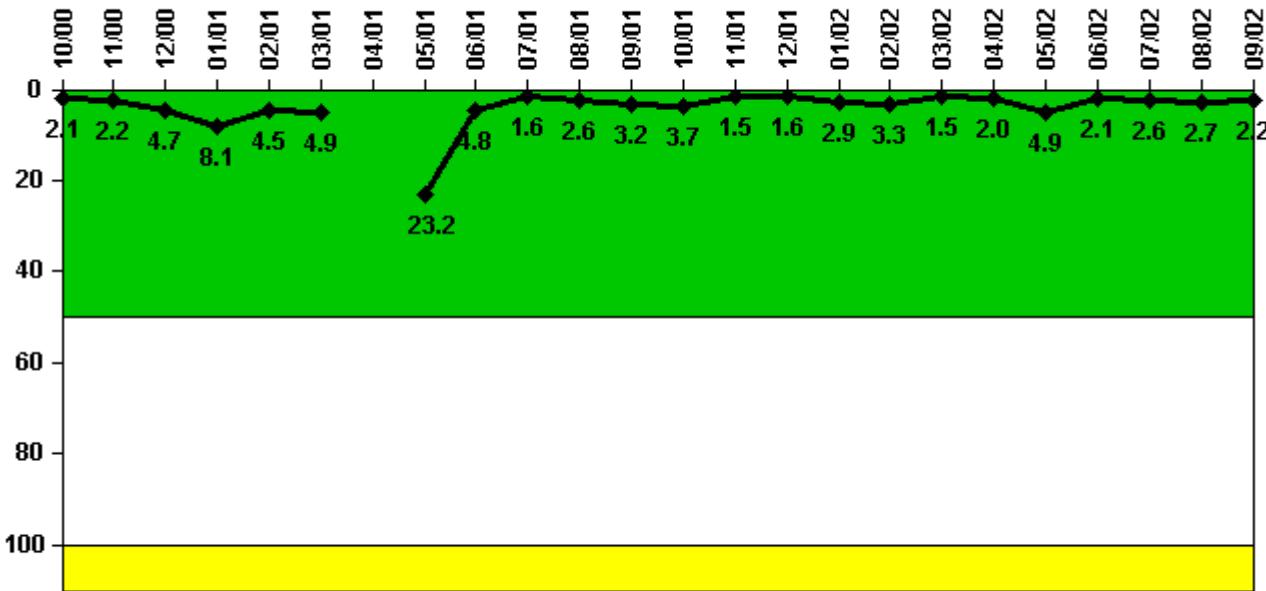
Notes

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	0.009960	0.010200	0.010400	0.011200	0.013600	0.032800	N/A	0.007460	0.007800	0.003780	0.007770	0.004230
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	1.0	1.0	1.0	1.1	1.4	3.3	N/A	0.7	0.8	0.4	0.8	0.4

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	0.004620	0.004720	0.005170	0.005730	0.005470	0.005600	0.005600	0.006010	0.006200	0.006550	0.009630	0.007900
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	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.7	1.0	0.8

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

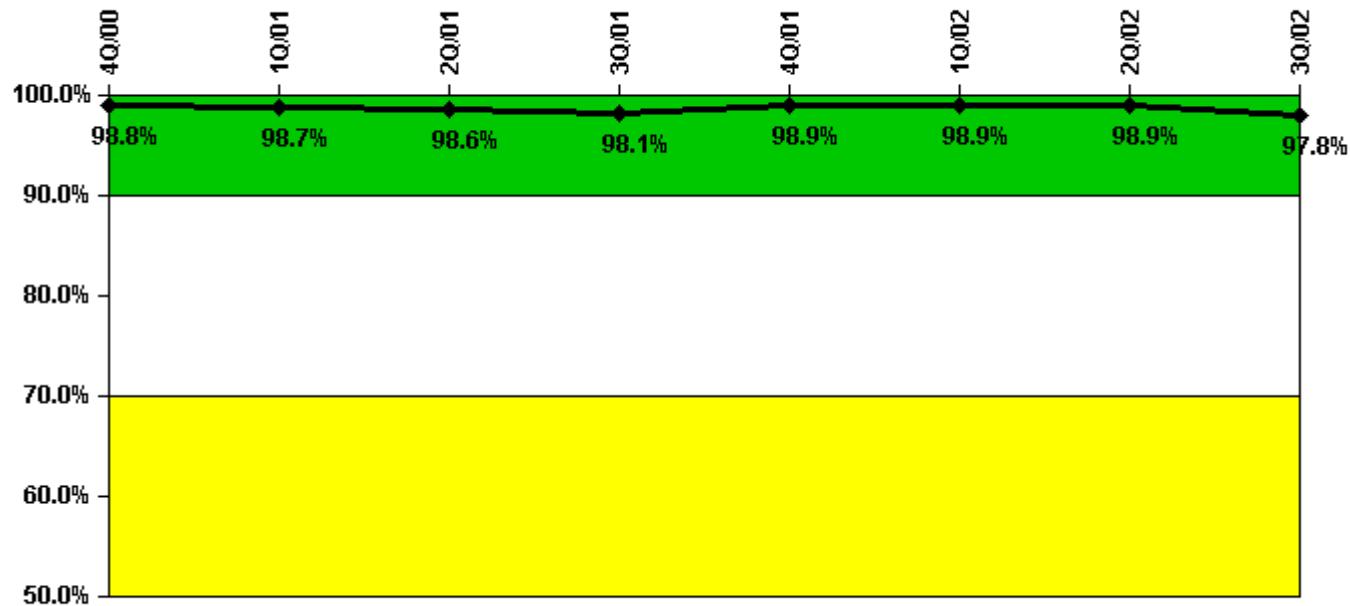
Notes

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	0.212	0.224	0.471	0.814	0.450	0.488	N/A	2.320	0.480	0.155	0.260	0.317
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	2.1	2.2	4.7	8.1	4.5	4.9	N/A	23.2	4.8	1.6	2.6	3.2

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	0.370	0.150	0.160	0.289	0.331	0.145	0.200	0.486	0.211	0.262	0.273	0.220
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	3.7	1.5	1.6	2.9	3.3	1.5	2.0	4.9	2.1	2.6	2.7	2.2

Licensee Comments: none

Drill/Exercise Performance



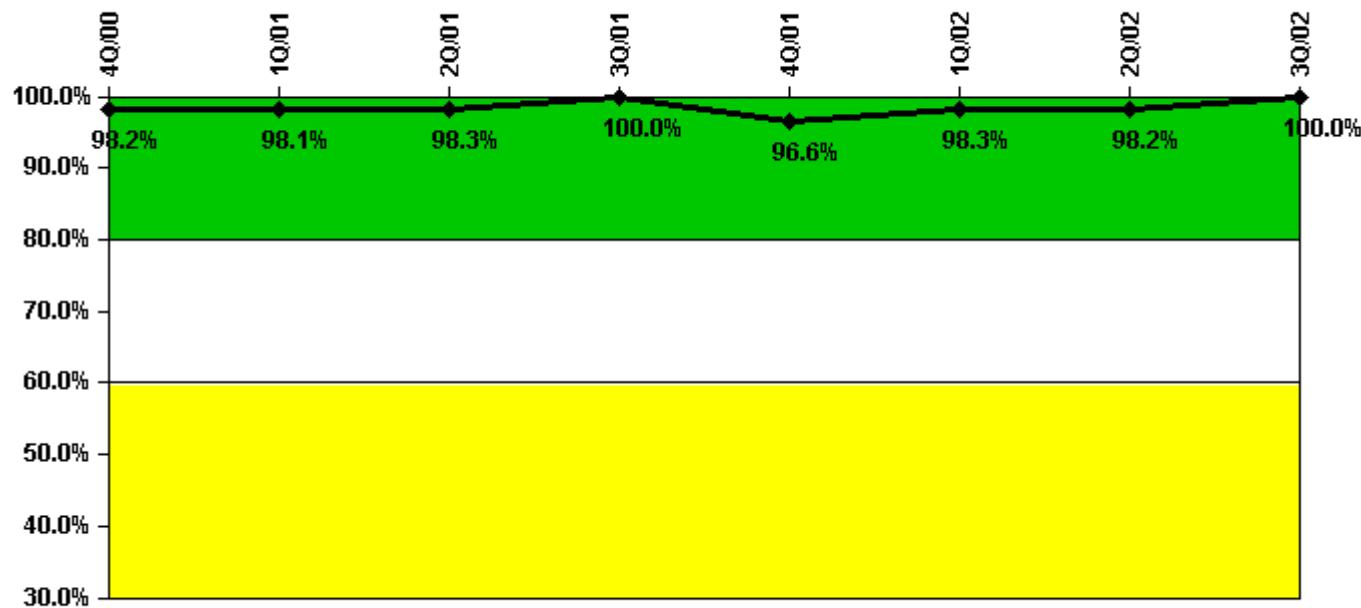
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful opportunities	33.0	11.0	22.0	27.0	25.0	14.0	8.0	34.0
Total opportunities	33.0	11.0	22.0	28.0	25.0	14.0	8.0	37.0
Indicator value	98.8%	98.7%	98.6%	98.1%	98.9%	98.9%	98.9%	97.8%

Licensee Comments: none

ERO Drill Participation



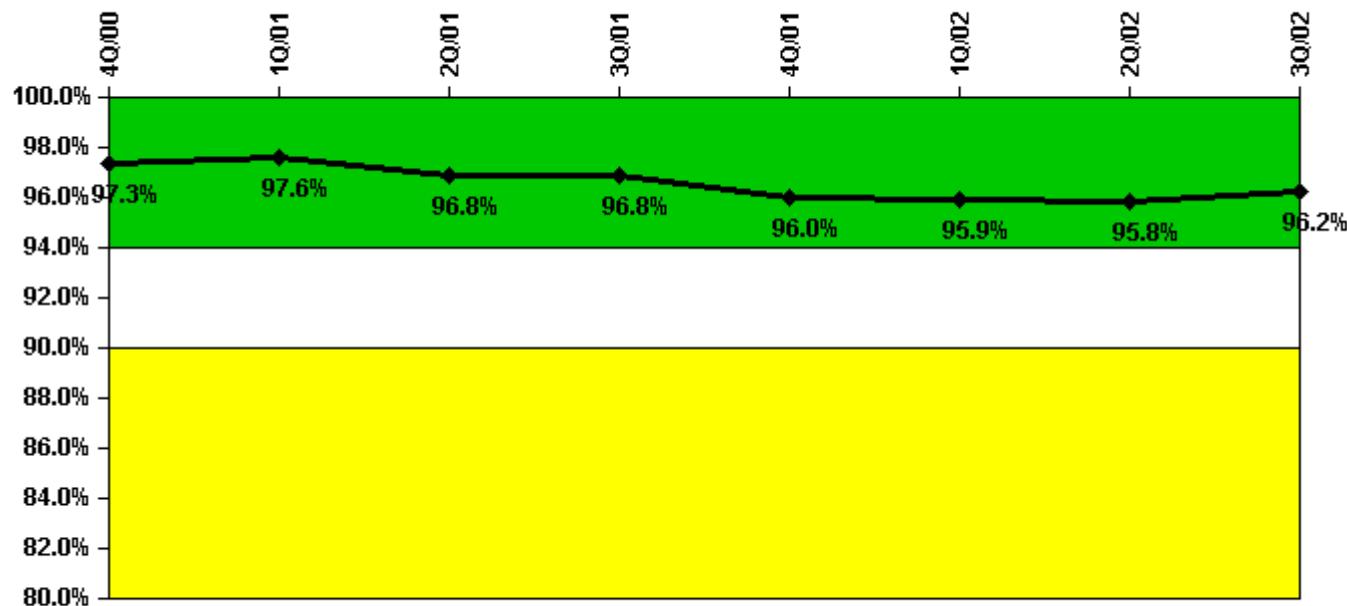
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Participating Key personnel	54.0	53.0	59.0	57.0	57.0	58.0	54.0	58.0
Total Key personnel	55.0	54.0	60.0	57.0	59.0	59.0	55.0	58.0
Indicator value	98.2%	98.1%	98.3%	100.0%	96.6%	98.3%	98.2%	100.0%

Licensee Comments: none

Alert & Notification System



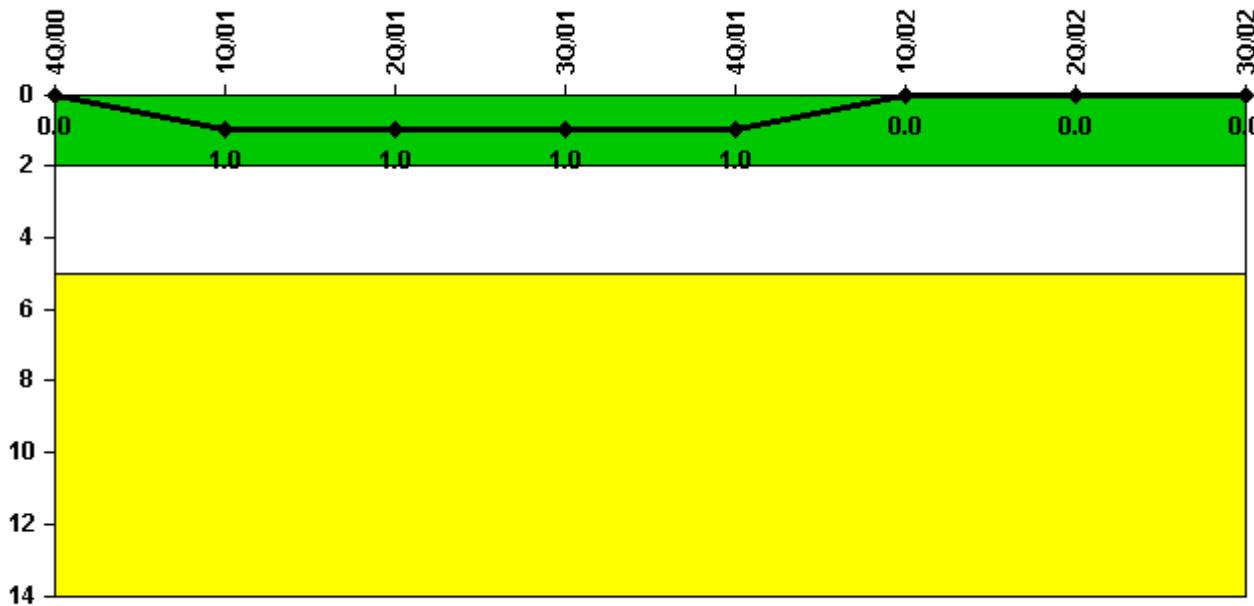
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful siren-tests	1039	990	944	969	1078	918	956	1035
Total sirens-tests	1068	1002	1002	1002	1140	930	1019	1057
Indicator value	97.3%	97.6%	96.8%	96.8%	96.0%	95.9%	95.8%	96.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness

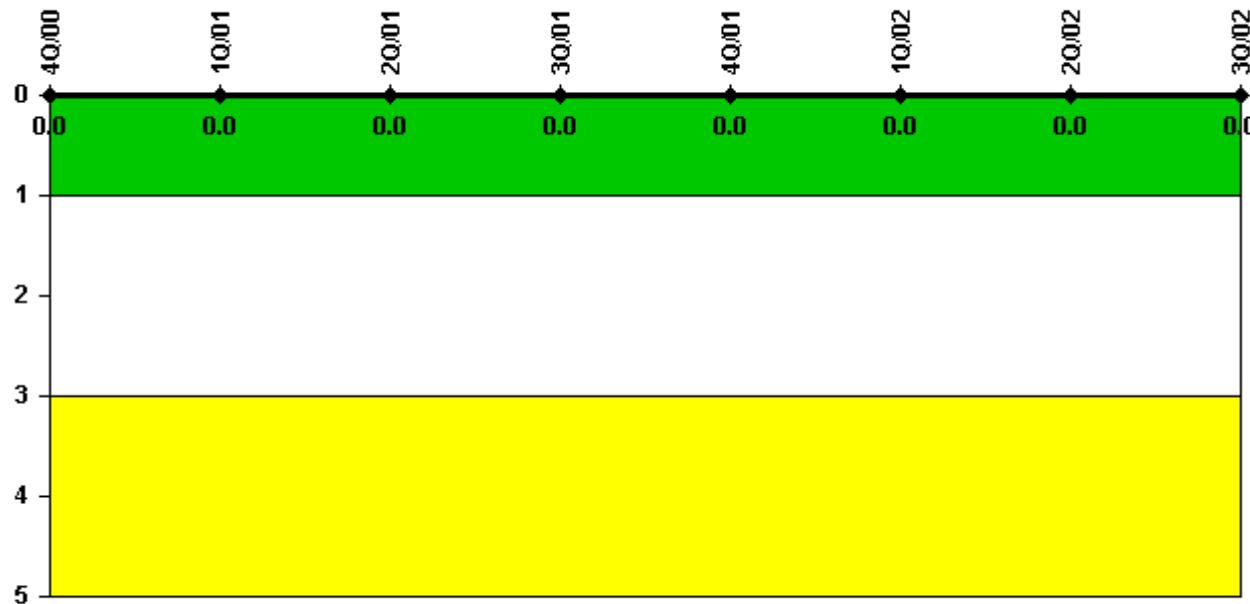


Thresholds: White > 2.0 Yellow > 5.0

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	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

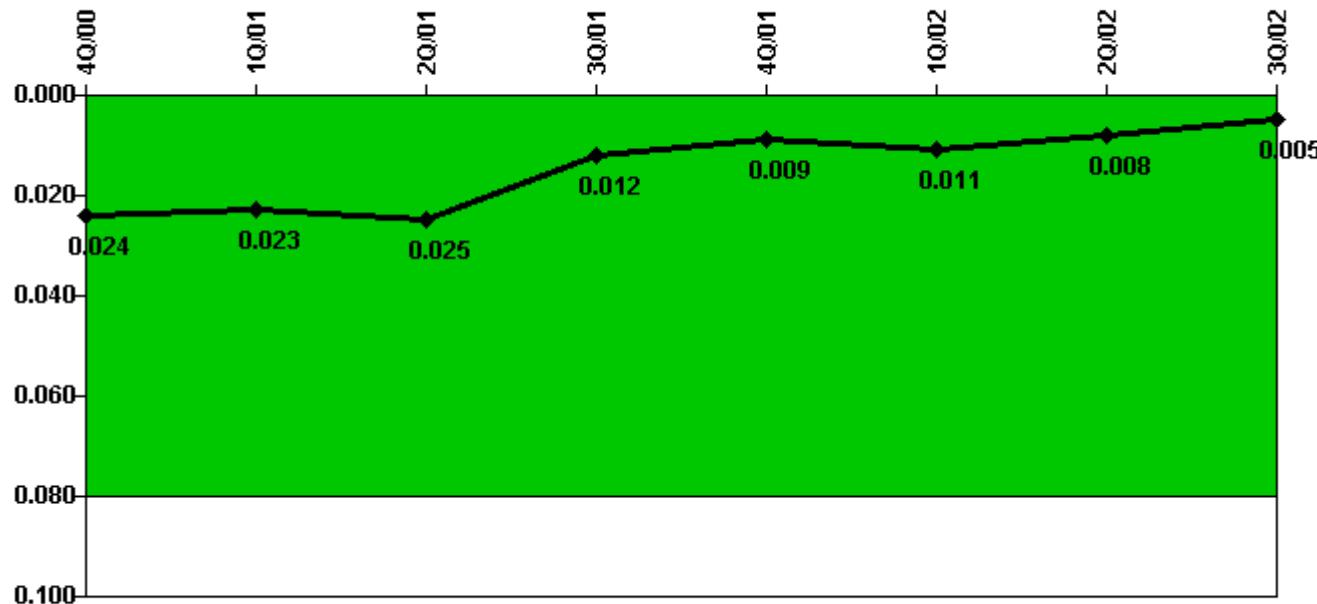
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

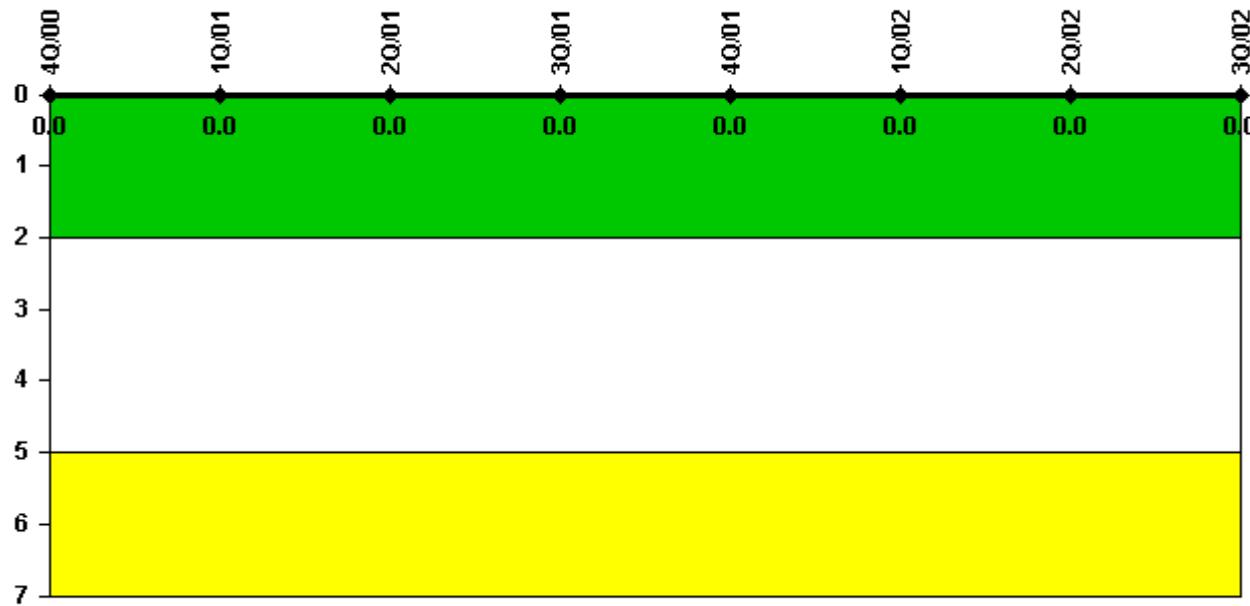
Notes

Protected Area Security Performance Index	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
IDS compensatory hours	116.70	14.80	85.60	69.60	39.90	51.10	1.80	7.80
CCTV compensatory hours	0	0	0	0	0	19.5	0	0
IDS normalization factor	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40
CCTV normalization factor	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Index Value	0.024	0.023	0.025	0.012	0.009	0.011	0.008	0.005

Licensee Comments:

3Q/02: The indicator value for Q2/2002 is different than previously reported as a result of a change report submitted to correct Q2/2002 data for CCTV and IDS compensatory hours.

2Q/02: The number of IDS Compensatory Hours during the last 4 quarters and CCTV Compensatory Hours during the last 4 quarters were inadvertently reported for the number of IDS Compensatory Hours during the quarter and CCTV Compensatory Hours during the quarter, respectively. This change affects the Q2/2002 report only and does not affect the color of the indicator.

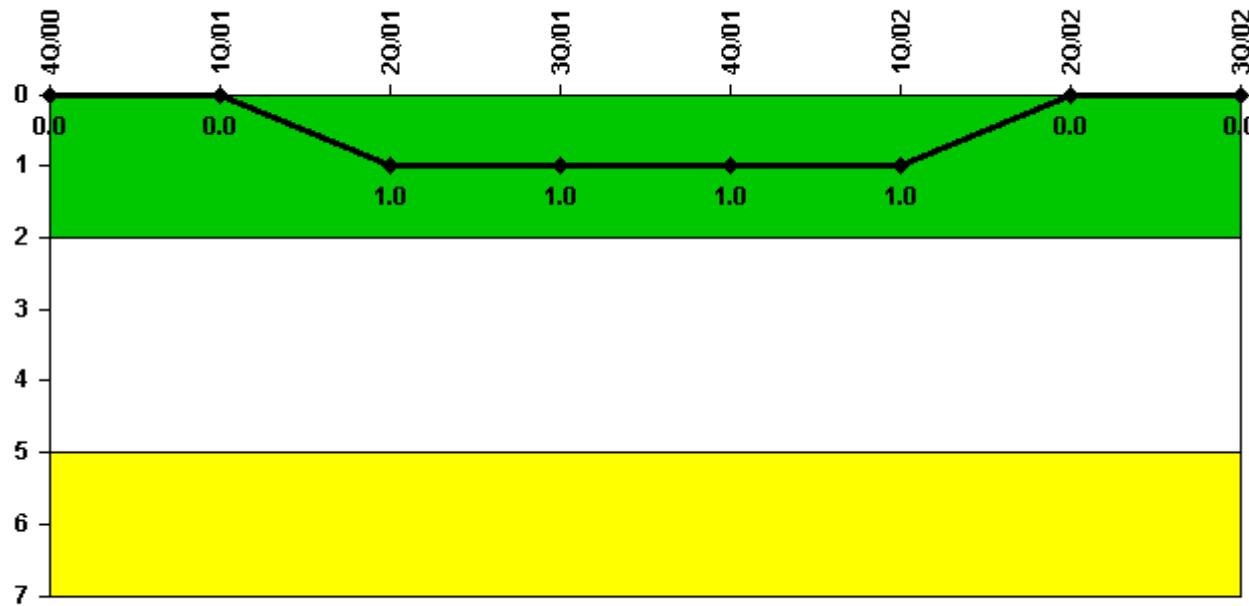
Personnel Screening Program

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	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	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	1	0	0	0	0	0
Indicator value	0	0	1	1	1	1	0	0

Licensee Comments: none

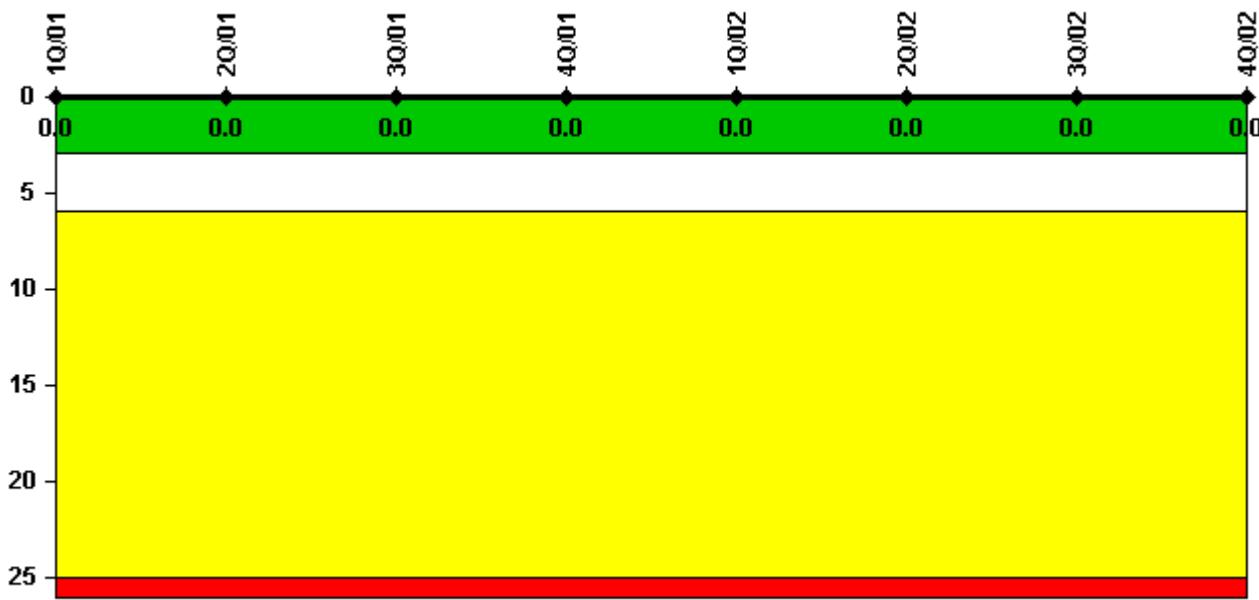


[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

Last Modified: October 22, 2002

Calvert Cliffs 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	0	0	0	0	0
Critical hours	1800.0	1163.4	2208.0	2162.9	2160.0	2183.0	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

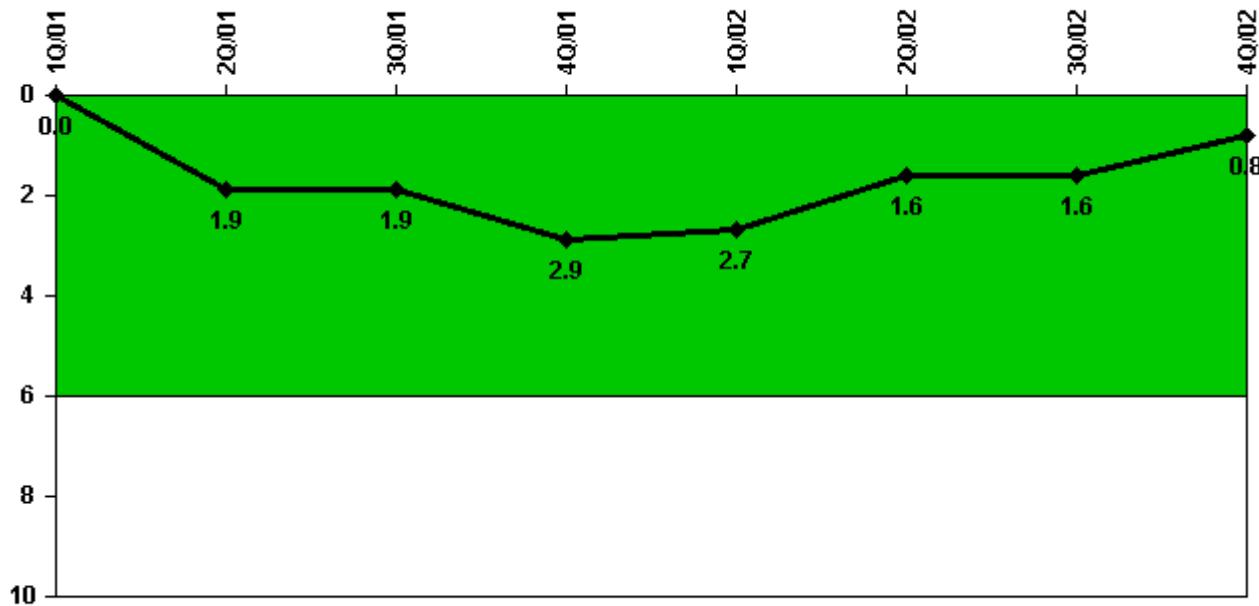
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



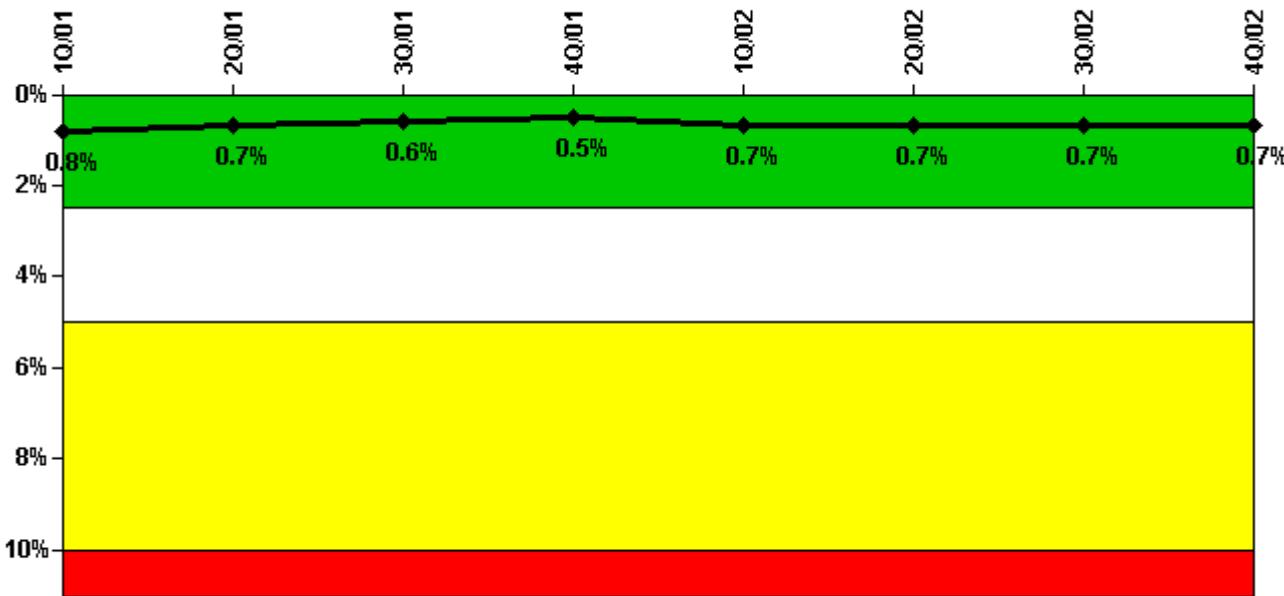
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned power changes	0	2.0	0	1.0	0	1.0	0	0
Critical hours	1800.0	1163.4	2208.0	2162.9	2160.0	2183.0	2208.0	2209.0
Indicator value	0	1.9	1.9	2.9	2.7	1.6	1.6	0.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



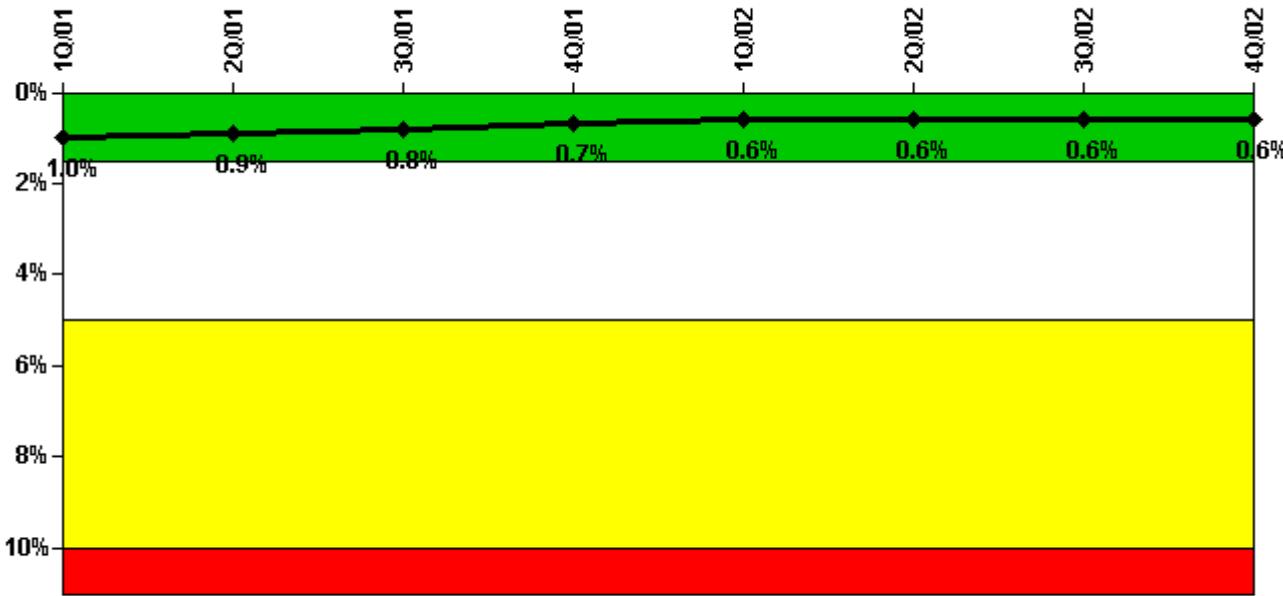
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	15.33	0.83	34.50	0.50	1.33	13.50	0	0
Unplanned unavailable hours	0	0	17.27	9.27	143.98	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	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	37.40	0	0	0.25	0	2.70	13.27	6.30
Unplanned unavailable hours	0.25	0	0	0	12.25	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	2160.00	2183.00	2208.00	2209.00
Indicator value	0.8%	0.7%	0.6%	0.5%	0.7%	0.7%	0.7%	0.7%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



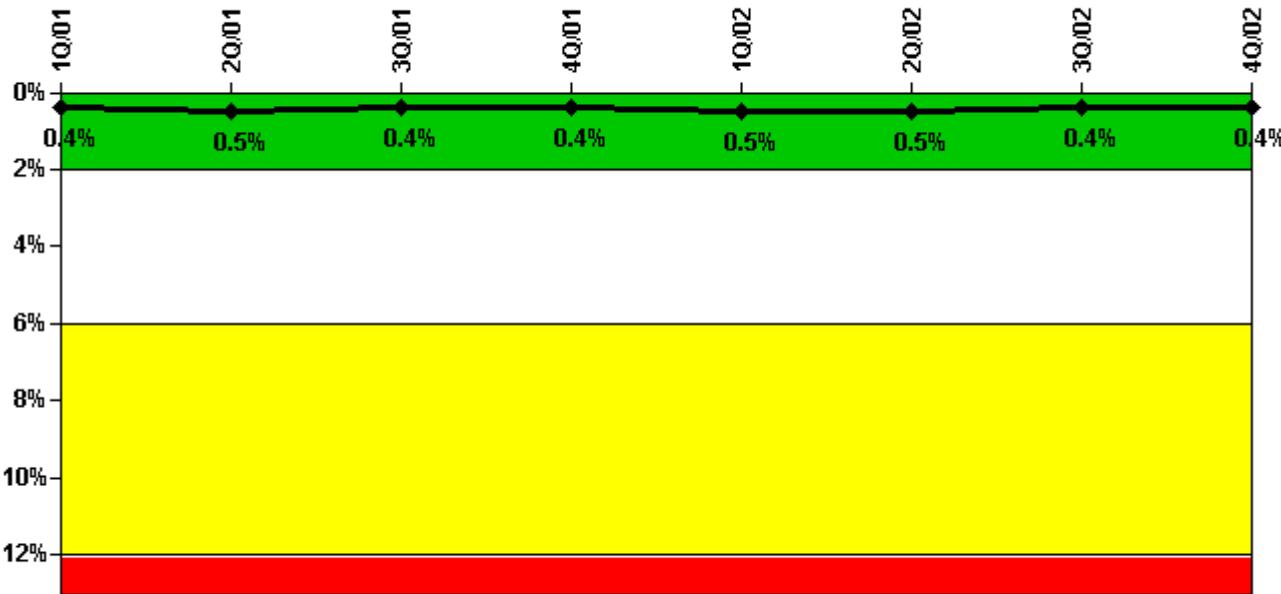
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	36.34	1.54	0.27	9.94	20.17	0.30	2.42	25.99
Unplanned unavailable hours	0	0	0	9.27	0	11.70	0	0.77
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1800.00	1163.30	2208.00	2162.90	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	19.27	1.54	17.47	0.54	17.45	0.30	34.49	1.23
Unplanned unavailable hours	0	0	0	0.47	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	1800.00	1163.30	2208.00	2162.90	2160.00	2183.00	2208.00	2209.00
Indicator value	1.0%	0.9%	0.8%	0.7%	0.6%	0.6%	0.6%	0.6%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



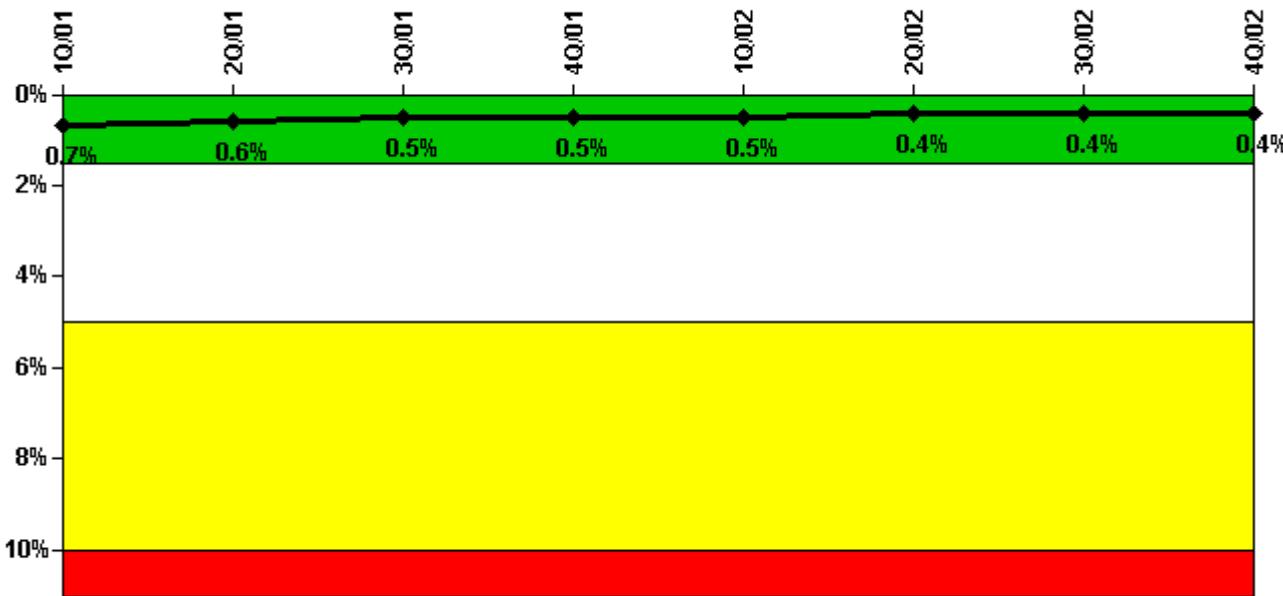
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	2.33	18.04	8.91	0.08	22.42	2.20	0	0.40
Unplanned unavailable hours	0	0	6.58	0	0	0	0	0.37
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1800.00	1163.30	2208.00	2162.90	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	2.33	22.28	13.67	0.17	22.42	2.70	0.47	1.07
Unplanned unavailable hours	0	0	6.58	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	1800.00	1163.30	2208.00	2162.90	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0	31.95	38.92	13.07	0	4.60	0	0
Unplanned unavailable hours	0	0	0.58	0	0	0	23.38	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	1800.00	1163.30	2208.00	2162.90	2160.00	2183.00	2208.00	2209.00
Indicator value	0.4%	0.5%	0.4%	0.4%	0.5%	0.5%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



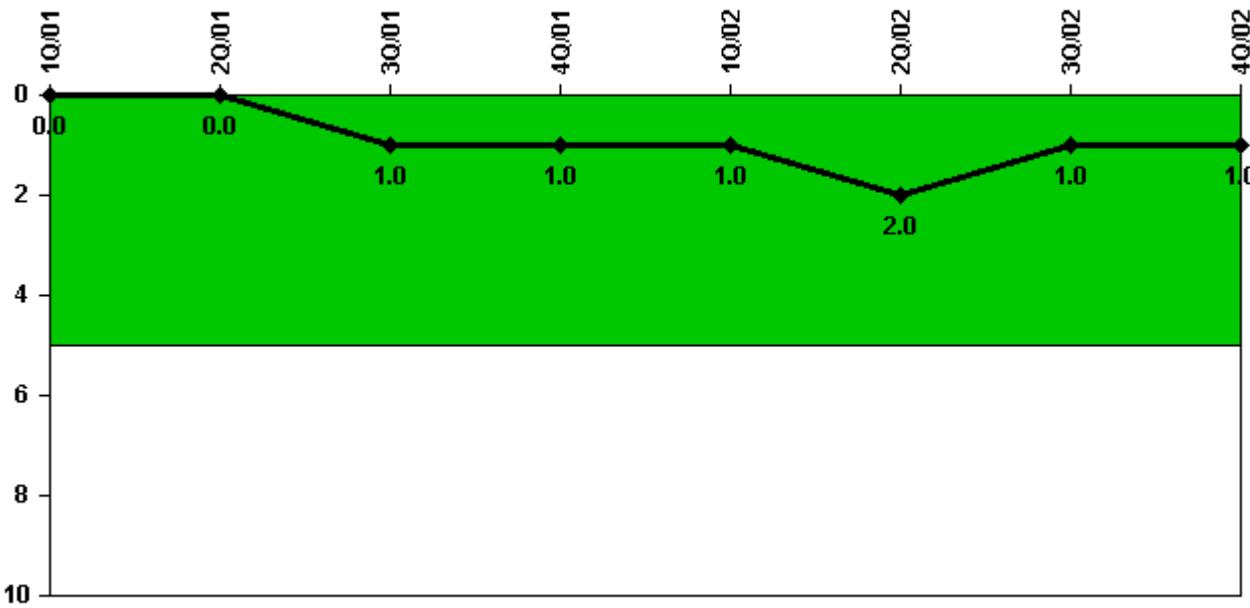
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	0	0	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	336.80	935.40	0	19.30	0	0	0	0
Train 2								
Planned unavailable hours	0	0	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	336.80	935.40	0	19.30	0	0	0	0
Train 3								
Planned unavailable hours	34.49	4.24	2.62	25.68	21.59	18.10	2.49	3.66
Unplanned unavailable hours	0	0	0	9.27	0	11.70	1.92	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	1823.20	1247.60	2208.00	2189.70	2160.00	2183.00	2208.00	2209.00
Train 4								
Planned unavailable hours	28.40	4.52	22.54	1.91	18.47	6.40	42.50	3.06
Unplanned unavailable hours	0	0	0	0	0	0	3.15	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	1823.20	1247.60	2208.00	2189.70	2160.00	2183.00	2208.00	2209.00
Indicator value	0.7%	0.6%	0.5%	0.5%	0.5%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Functional Failures (PWR)



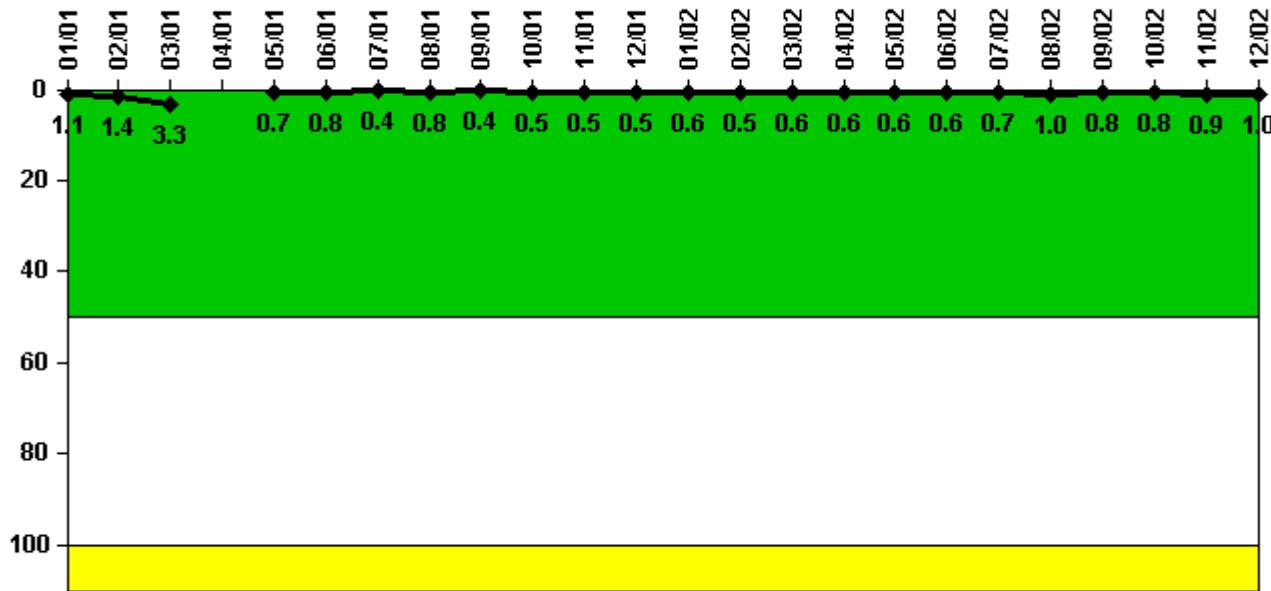
Thresholds: White > 5.0

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	0	0	1	0	0	1	0	0
Indicator value	0	0	1	1	1	2	1	1

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

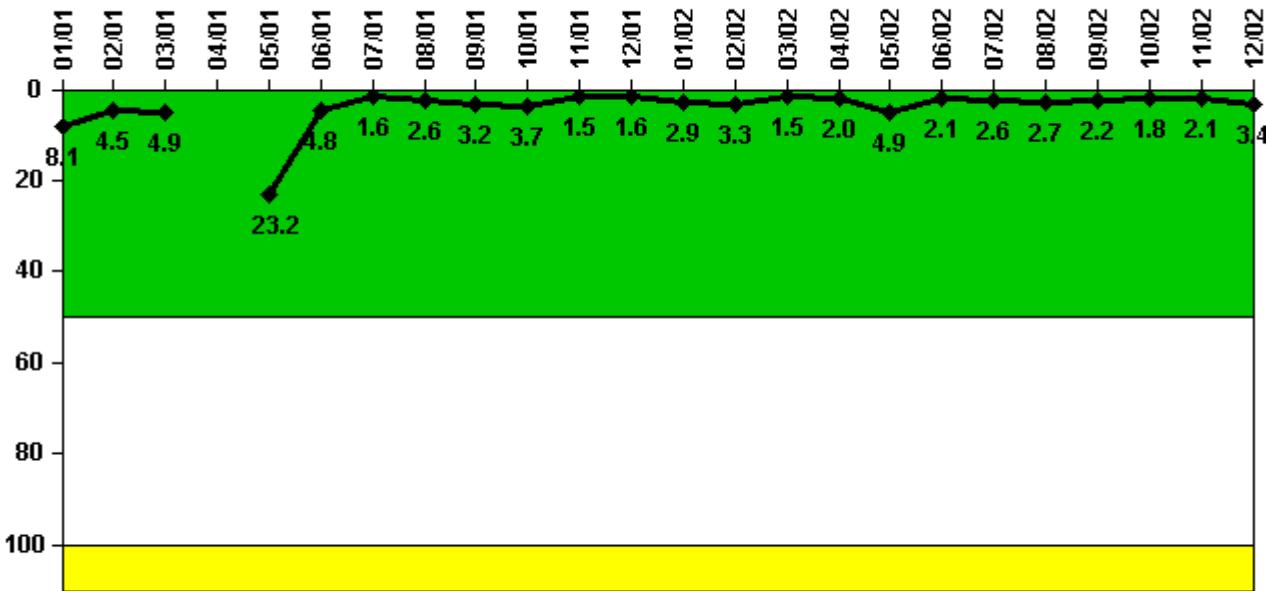
Notes

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	0.011200	0.013600	0.032800	N/A	0.007460	0.007800	0.003780	0.007770	0.004230	0.004620	0.004720	0.005170
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	1.1	1.4	3.3	N/A	0.7	0.8	0.4	0.8	0.4	0.5	0.5	0.5

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	0.005730	0.005470	0.005600	0.005600	0.006010	0.006200	0.006550	0.009630	0.007900	0.007980	0.008700	0.009630
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	0.6	0.5	0.6	0.6	0.6	0.6	0.7	1.0	0.8	0.8	0.9	1.0

Licensee Comments: none

Reactor Coolant System Leakage

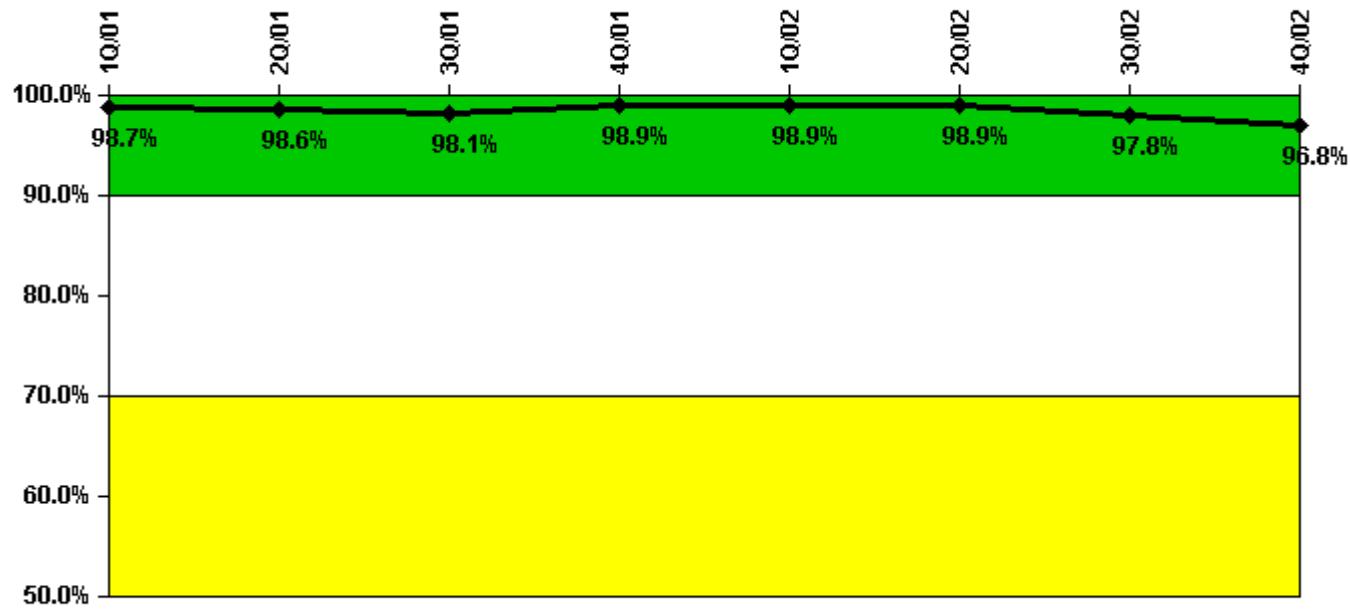


Thresholds: White > 50.0 Yellow > 100.0

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	0.814	0.450	0.488	N/A	2.320	0.480	0.155	0.260	0.317	0.370	0.150	0.160
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	8.1	4.5	4.9	N/A	23.2	4.8	1.6	2.6	3.2	3.7	1.5	1.6
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	0.289	0.331	0.145	0.200	0.486	0.211	0.262	0.273	0.220	0.177	0.210	0.338
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	2.9	3.3	1.5	2.0	4.9	2.1	2.6	2.7	2.2	1.8	2.1	3.4

Licensee Comments: none

Drill/Exercise Performance

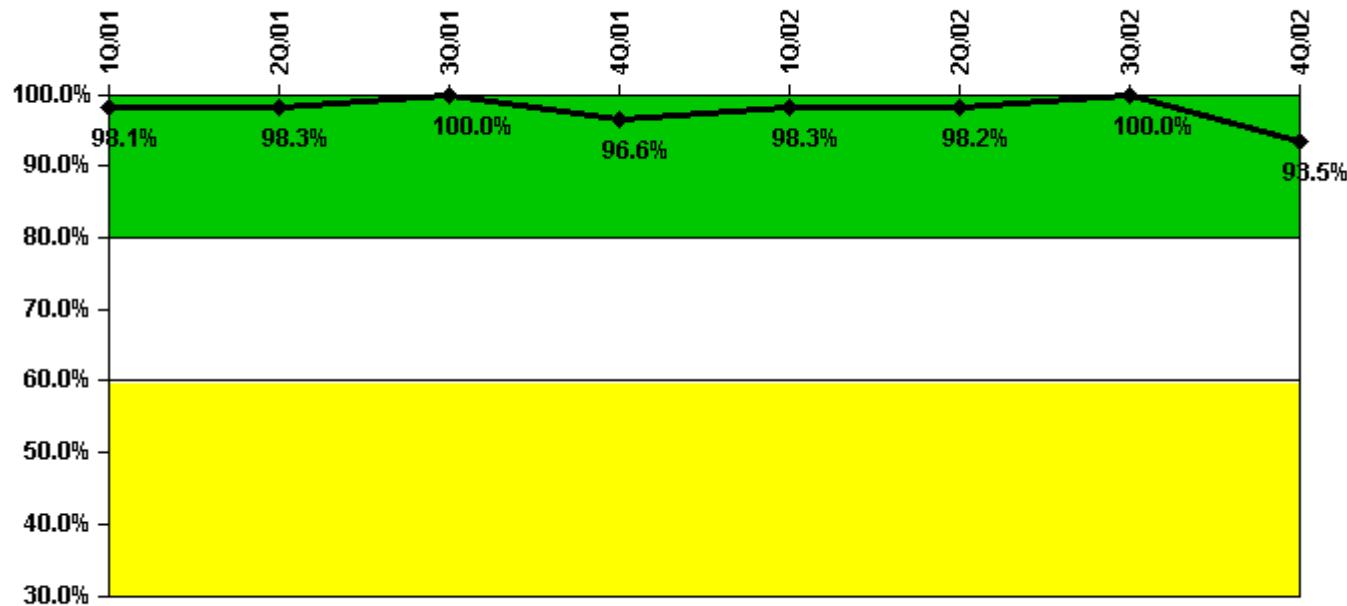
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful opportunities	11.0	22.0	27.0	25.0	14.0	8.0	34.0	39.0
Total opportunities	11.0	22.0	28.0	25.0	14.0	8.0	37.0	41.0
Indicator value	98.7%	98.6%	98.1%	98.9%	98.9%	98.9%	97.8%	96.8%

Licensee Comments: none

ERO Drill Participation



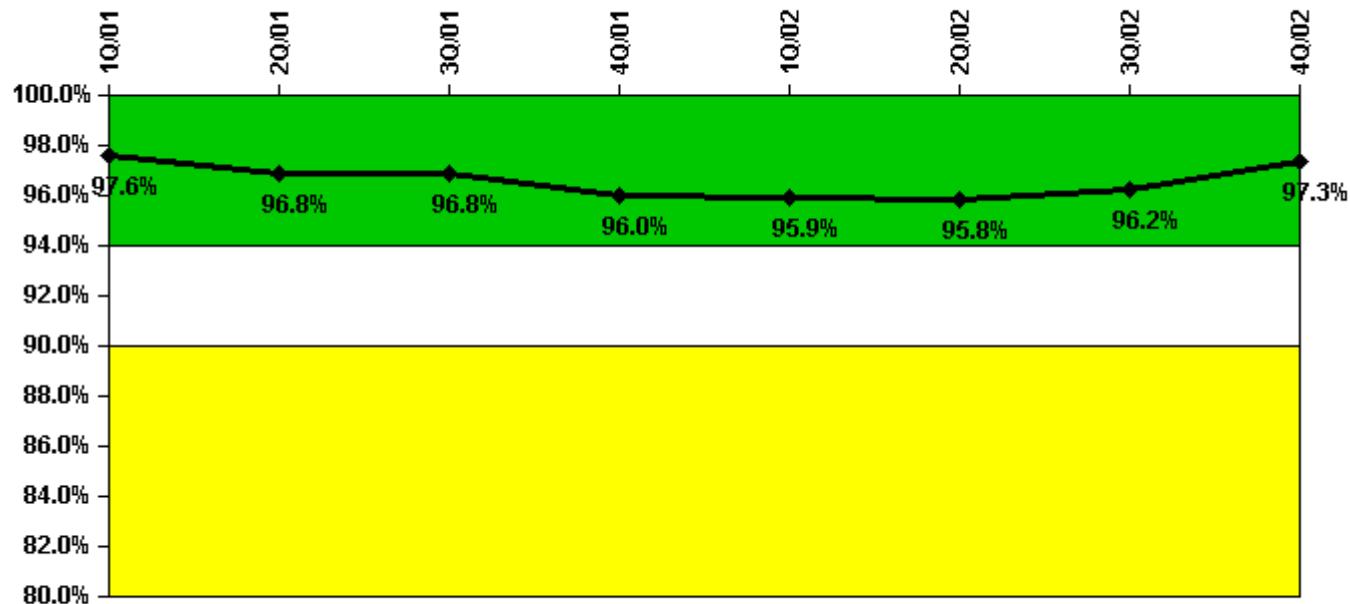
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Participating Key personnel	53.0	59.0	57.0	57.0	58.0	54.0	58.0	58.0
Total Key personnel	54.0	60.0	57.0	59.0	59.0	55.0	58.0	62.0
Indicator value	98.1%	98.3%	100.0%	96.6%	98.3%	98.2%	100.0%	93.5%

Licensee Comments: none

Alert & Notification System

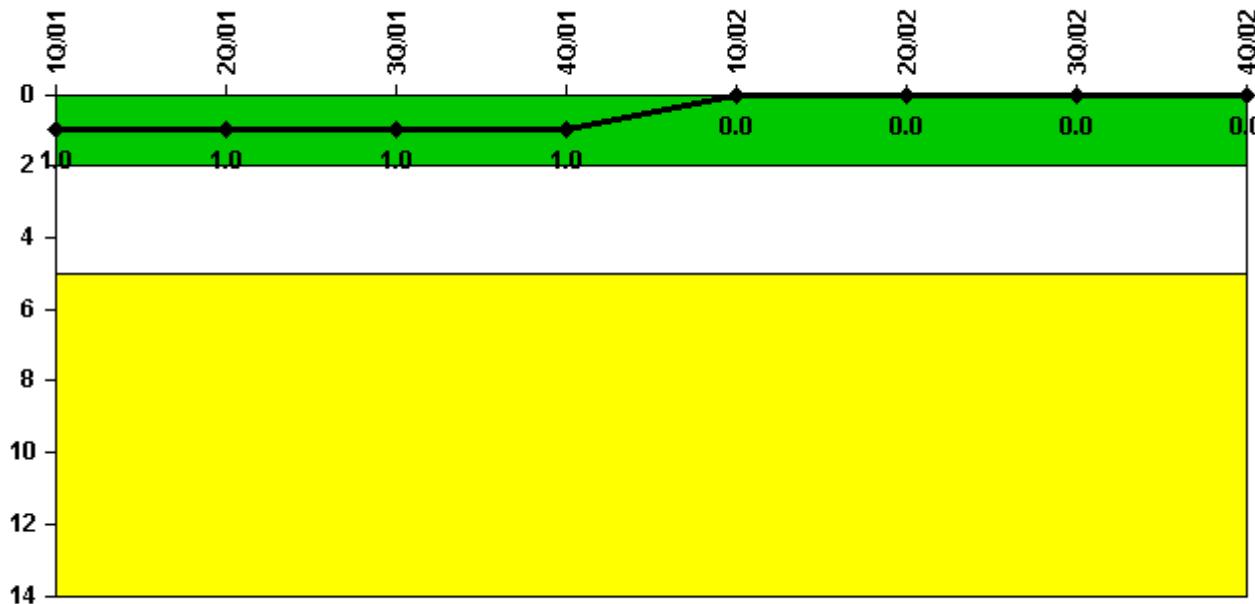


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful siren-tests	990	944	969	1078	918	956	1035	1007
Total sirens-tests	1002	1002	1002	1140	930	1019	1057	1019
Indicator value	97.6%	96.8%	96.8%	96.0%	95.9%	95.8%	96.2%	97.3%

Licensee Comments: none

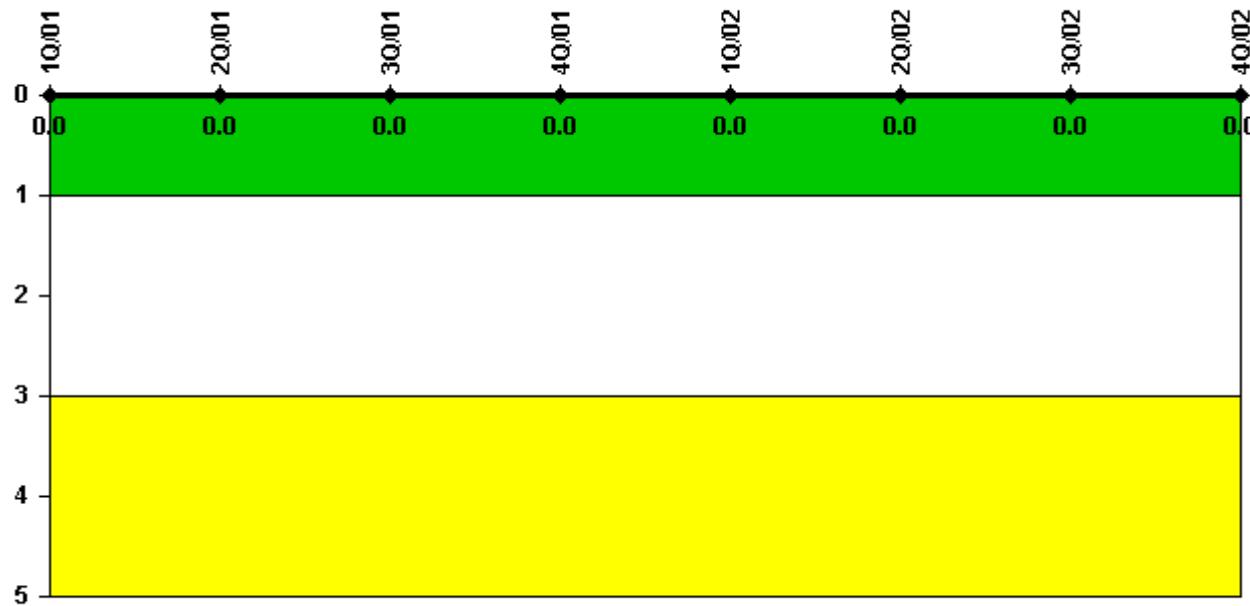
Occupational Exposure Control Effectiveness

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	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

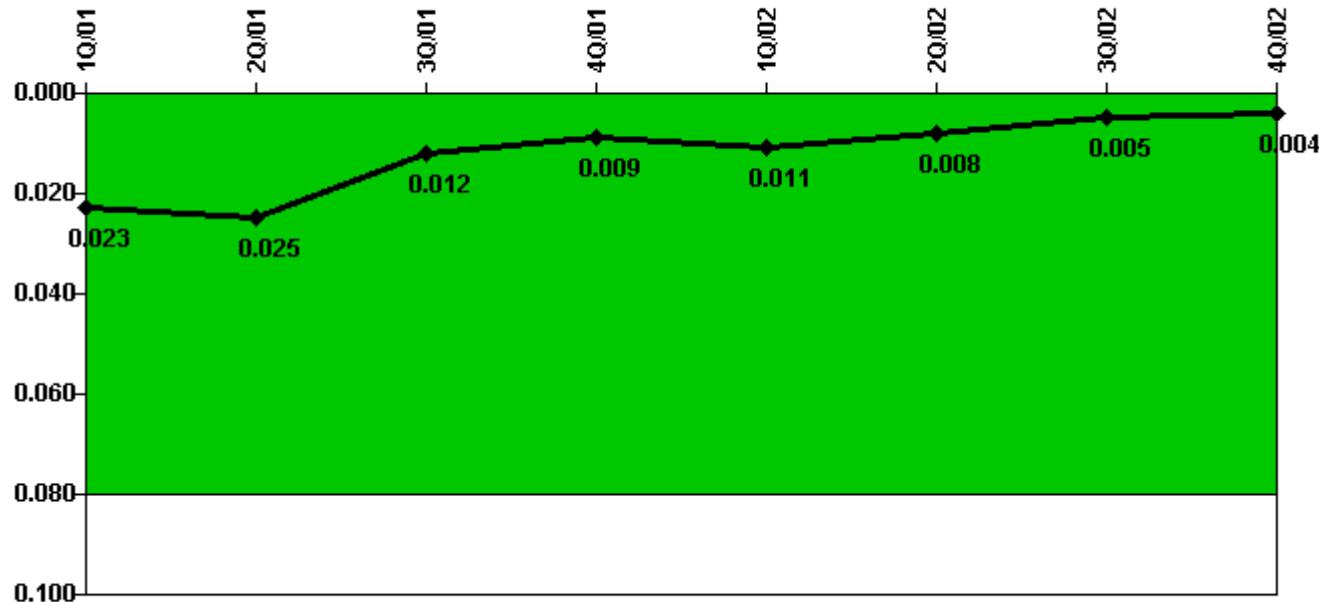
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

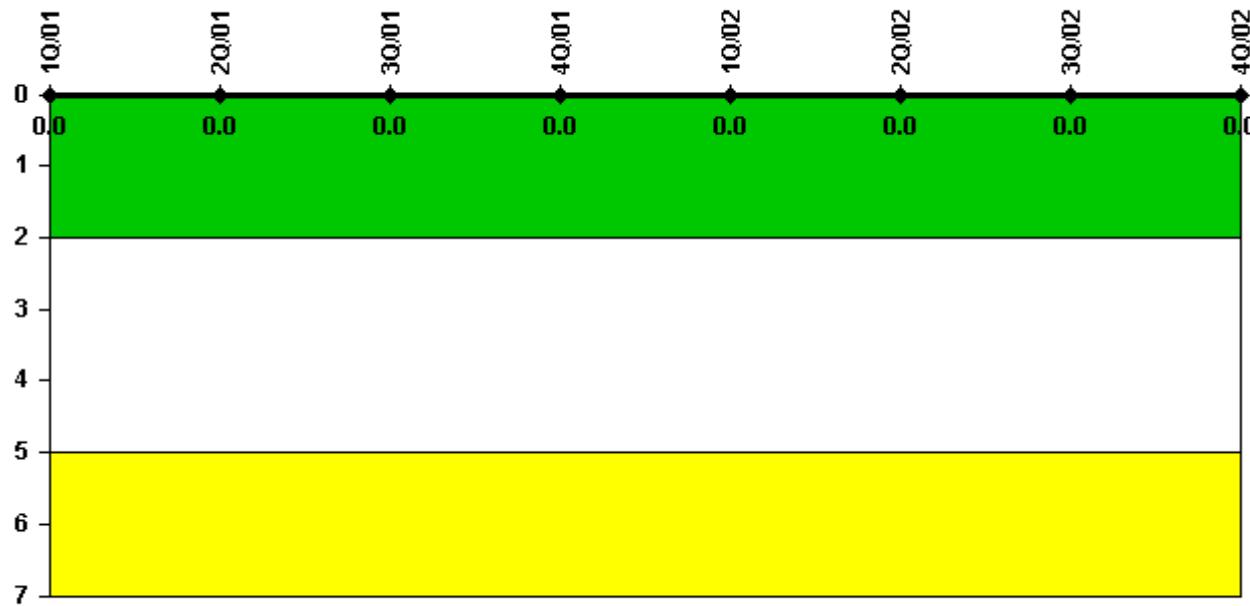


Thresholds: White > 0.080

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	14.80	85.60	69.60	39.90	51.10	1.80	7.80	14.20
CCTV compensatory hours	0	0	0	0	19.5	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	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Index Value	0.023	0.025	0.012	0.009	0.011	0.008	0.005	0.004

Licensee Comments: none

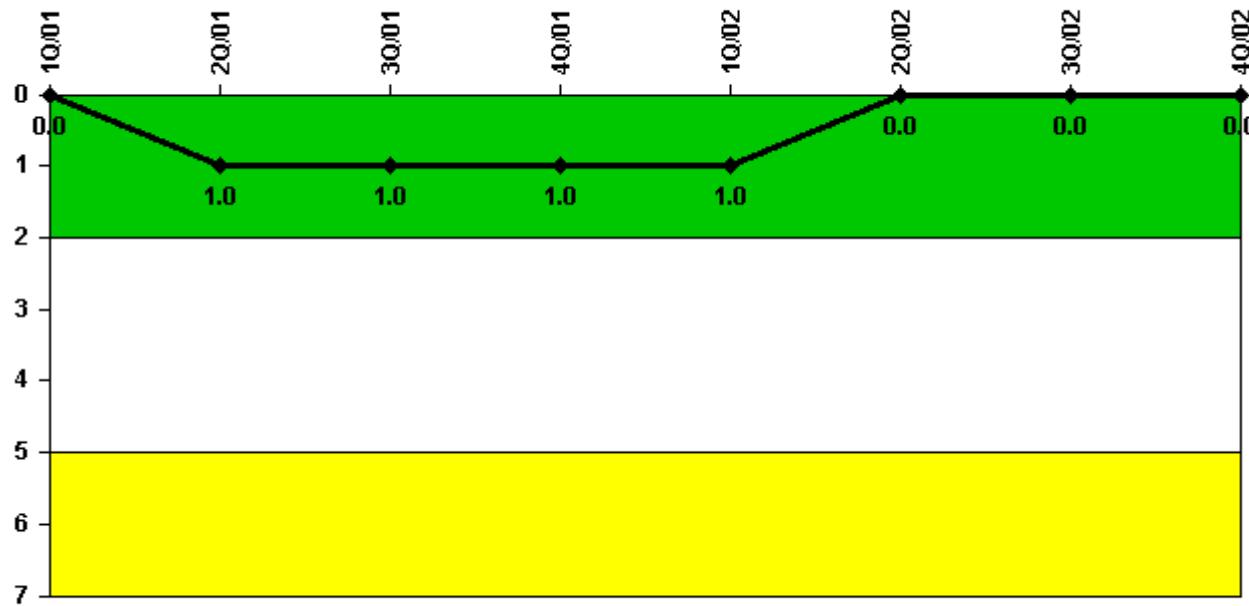
Personnel Screening Program

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	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	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	1	0	0	0	0	0	0
Indicator value	0	1	1	1	1	0	0	0

Licensee Comments: none



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

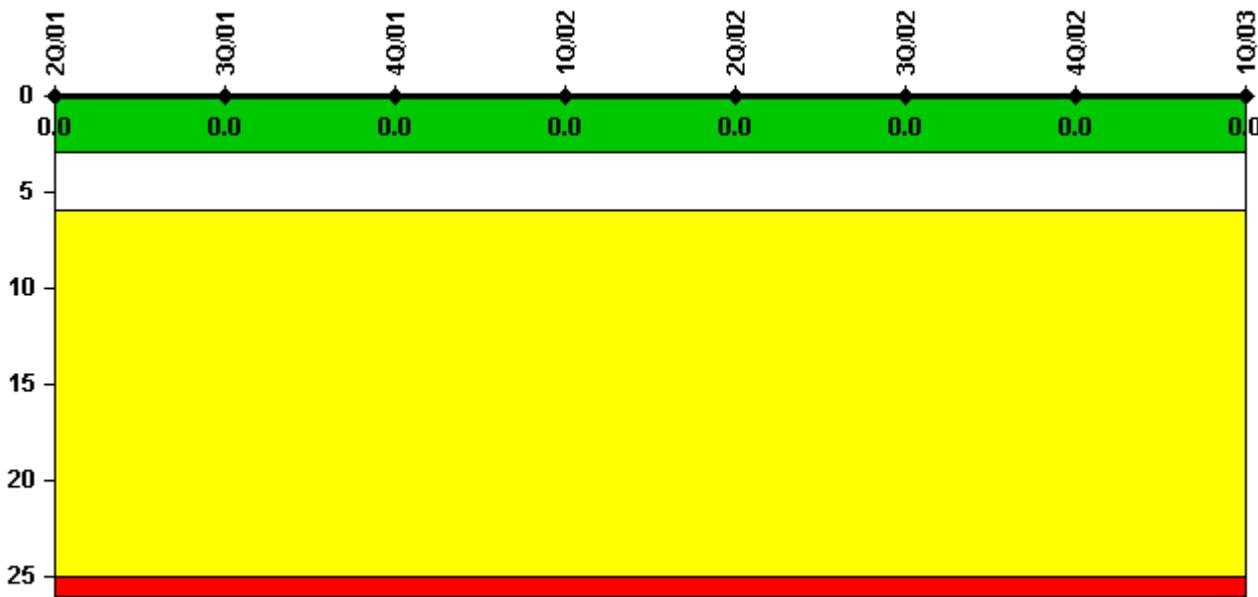
Last Modified: January 30, 2003

Calvert Cliffs 2

1Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

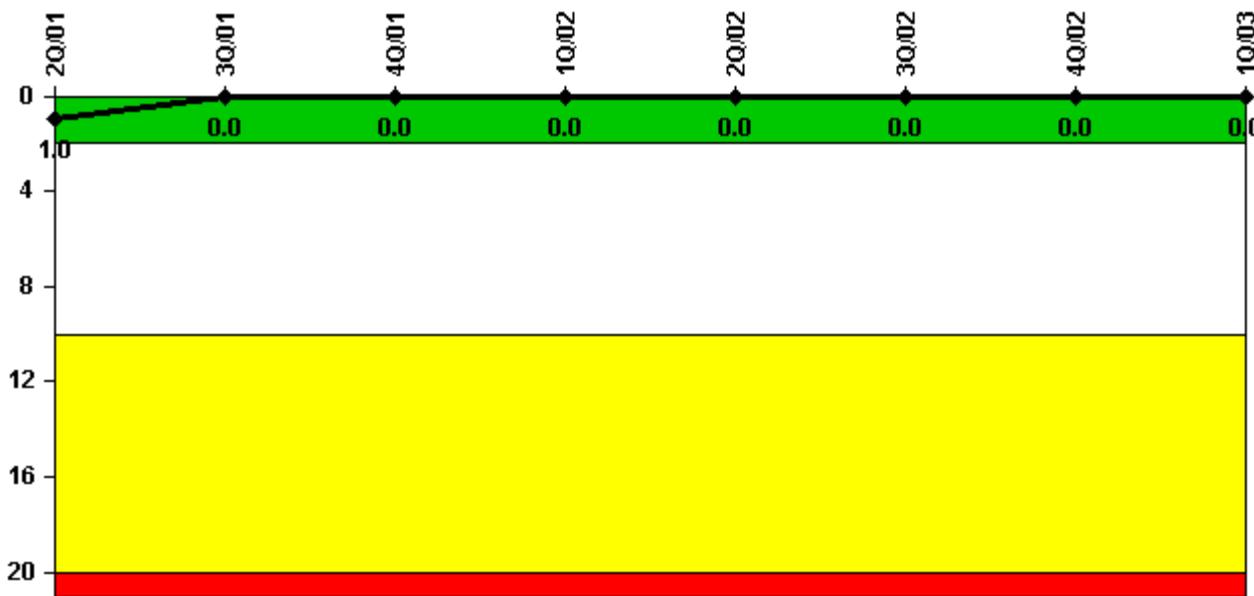


Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	0	0
Critical hours	1163.4	2208.0	2162.9	2160.0	2183.0	2208.0	2209.0	1079.4
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

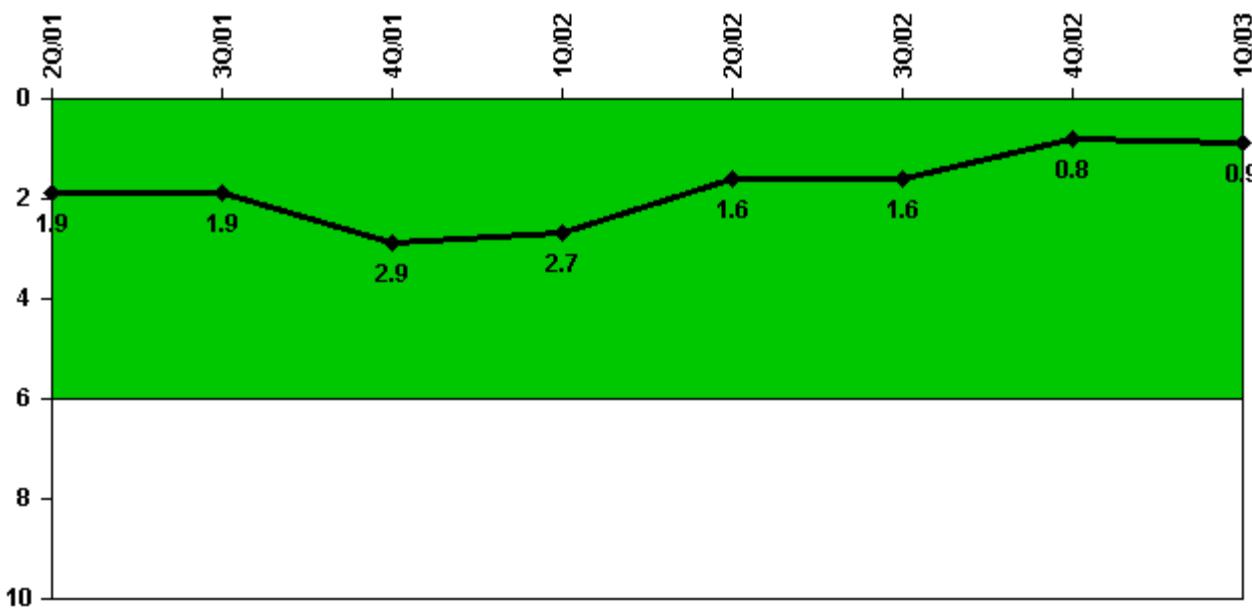
Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

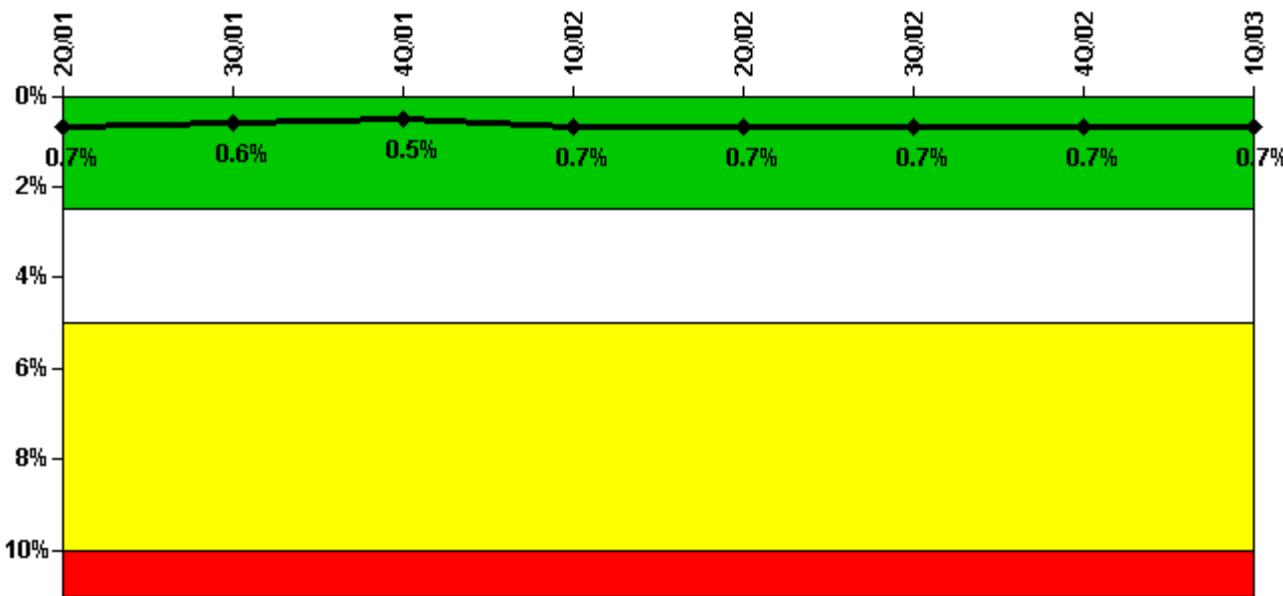
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned power changes	2.0	0	1.0	0	1.0	0	0	0
Critical hours	1163.4	2208.0	2162.9	2160.0	2183.0	2208.0	2209.0	1079.4
Indicator value	1.9	1.9	2.9	2.7	1.6	1.6	0.8	0.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



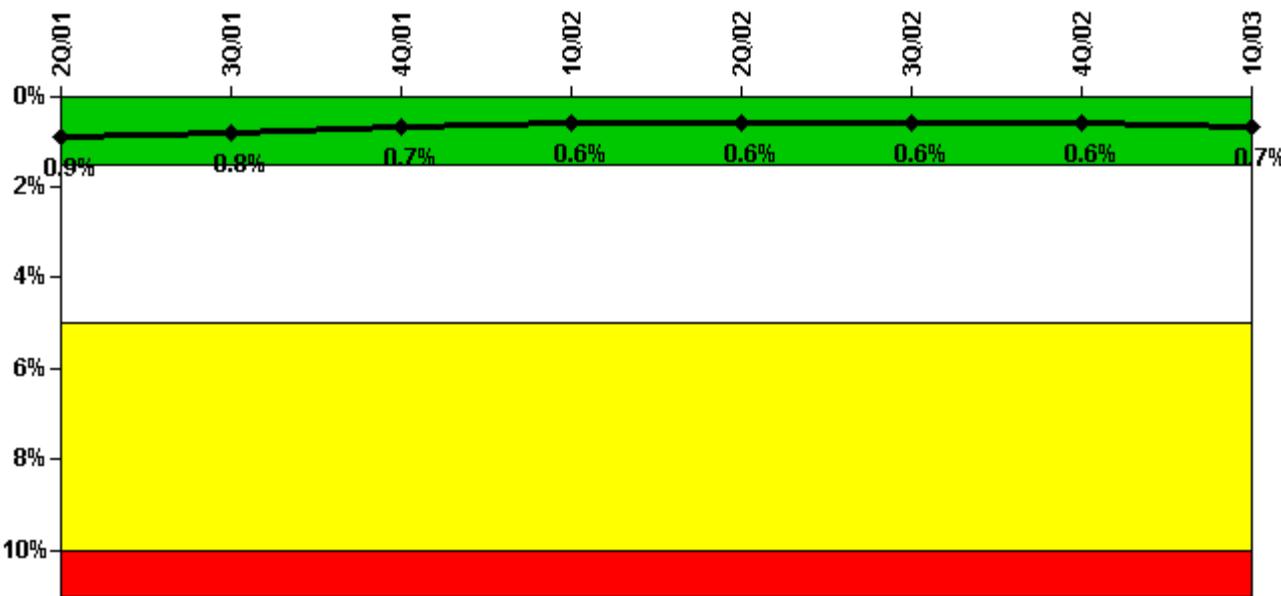
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0.83	34.50	0.50	1.33	13.50	0	0	20.18
Unplanned unavailable hours	0	17.27	9.27	143.98	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	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	0	0	0.25	0	2.70	13.27	6.30	34.39
Unplanned unavailable hours	0	0	0	12.25	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	2183.00	2208.00	2209.00	2160.00
Indicator value	0.7%	0.6%	0.5%	0.7%	0.7%	0.7%	0.7%	0.7%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



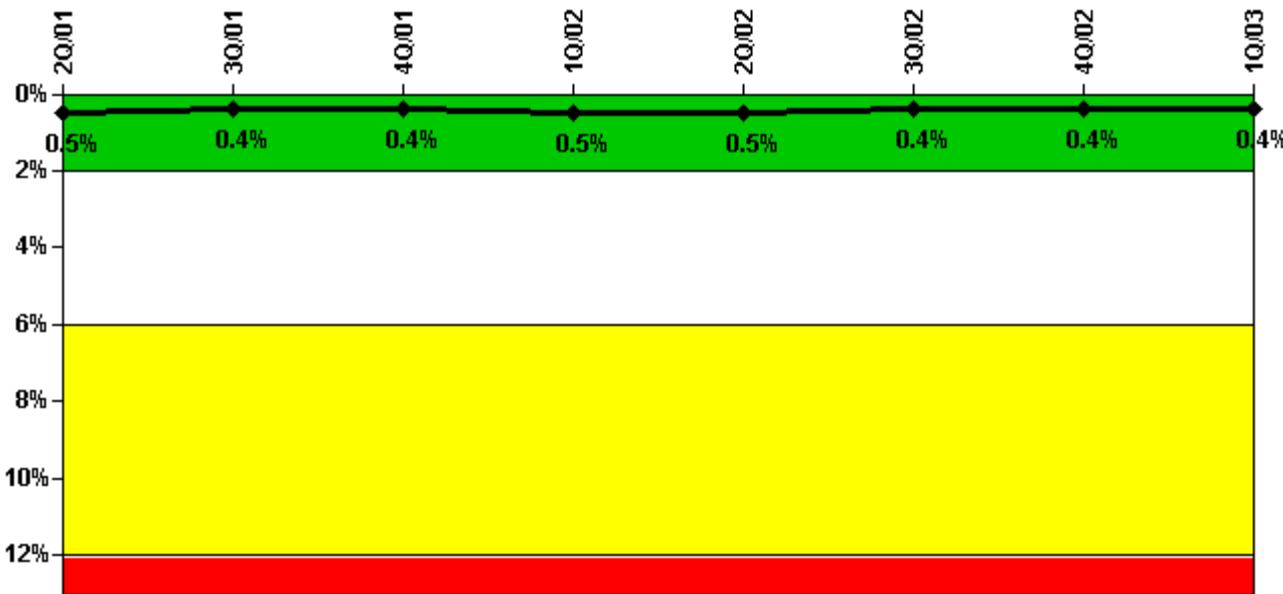
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	1.54	0.27	9.94	20.17	0.30	2.42	25.99	18.68
Unplanned unavailable hours	0	0	9.27	0	11.70	0	0.77	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	1163.30	2208.00	2162.90	2160.00	2183.00	2208.00	2209.00	1079.40
Train 2								
Planned unavailable hours	1.54	17.47	0.54	17.45	0.30	34.49	1.23	33.78
Unplanned unavailable hours	0	0	0.47	0	0	0	0	3.40
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1163.30	2208.00	2162.90	2160.00	2183.00	2208.00	2209.00	1079.40
Indicator value	0.9%	0.8%	0.7%	0.6%	0.6%	0.6%	0.6%	0.7%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



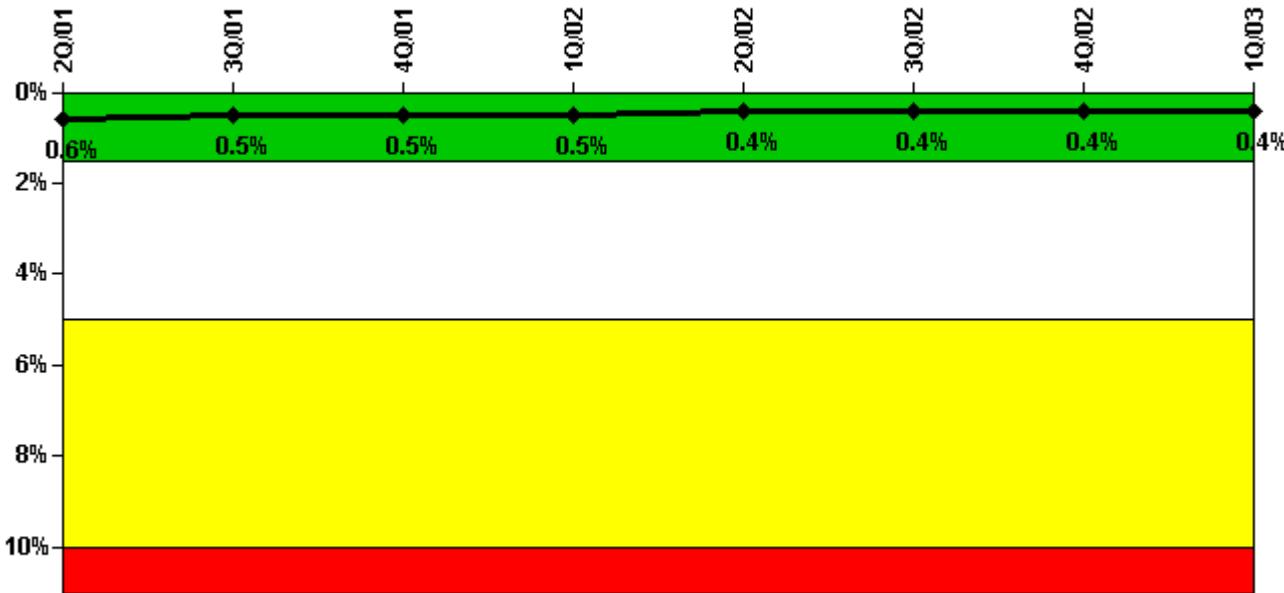
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	18.04	8.91	0.08	22.42	2.20	0	0.40	0
Unplanned unavailable hours	0	6.58	0	0	0	0	0.37	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	1163.30	2208.00	2162.90	2160.00	2183.00	2208.00	2209.00	1079.40
Train 2								
Planned unavailable hours	22.28	13.67	0.17	22.42	2.70	0.47	1.07	0
Unplanned unavailable hours	0	6.58	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	1163.30	2208.00	2162.90	2160.00	2183.00	2208.00	2209.00	1079.40
Train 3								
Planned unavailable hours	31.95	38.92	13.07	0	4.60	0	0	0.52
Unplanned unavailable hours	0	0.58	0	0	0	23.38	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	1163.30	2208.00	2162.90	2160.00	2183.00	2208.00	2209.00	1079.40
Indicator value	0.5%	0.4%	0.4%	0.5%	0.5%	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%

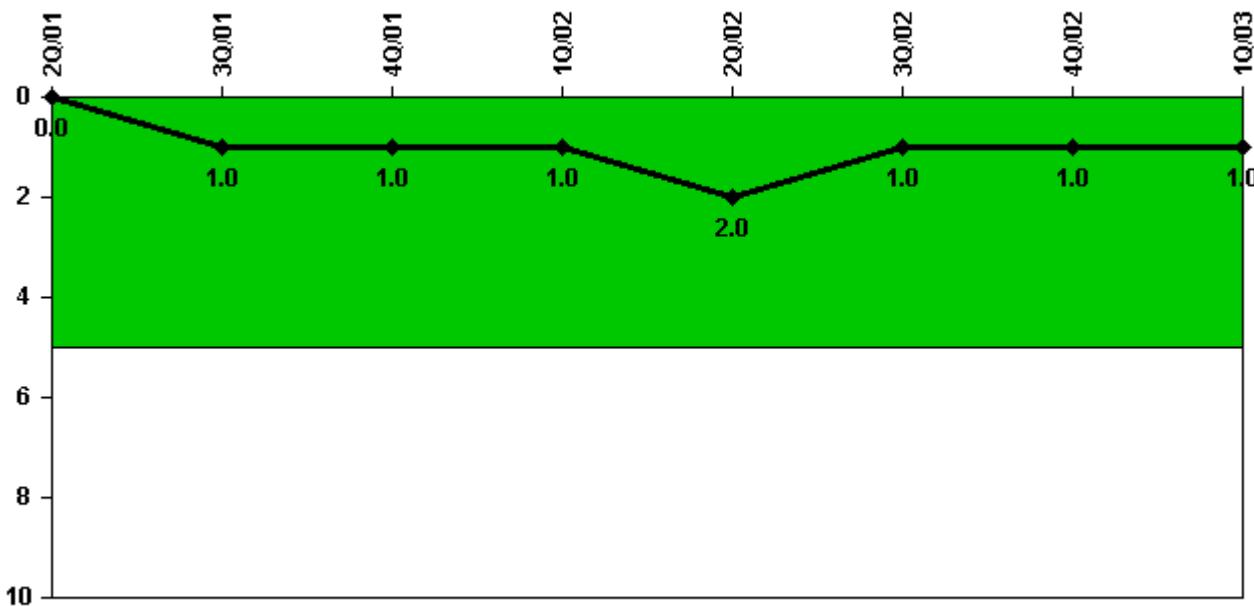
Notes

Safety System Unavailability, Residual Heat Removal System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0	0	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	935.40	0	19.30	0	0	0	0	304.50
Train 2								
Planned unavailable hours	0	0	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	935.40	0	19.30	0	0	0	0	304.50
Train 3								
Planned unavailable hours	4.24	2.62	25.68	21.59	18.10	2.49	3.66	18.24
Unplanned unavailable hours	0	0	9.27	0	11.70	1.92	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	1247.60	2208.00	2189.70	2160.00	2183.00	2208.00	2209.00	1090.30
Train 4								
Planned unavailable hours	4.52	22.54	1.91	18.47	6.40	42.50	3.06	33.74

Unplanned unavailable hours	0	0	0	0	0	3.15	0	3.40
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1247.60	2208.00	2189.70	2160.00	2183.00	2208.00	2209.00	1090.30
Indicator value	0.6%	0.5%	0.5%	0.5%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Functional Failures (PWR)



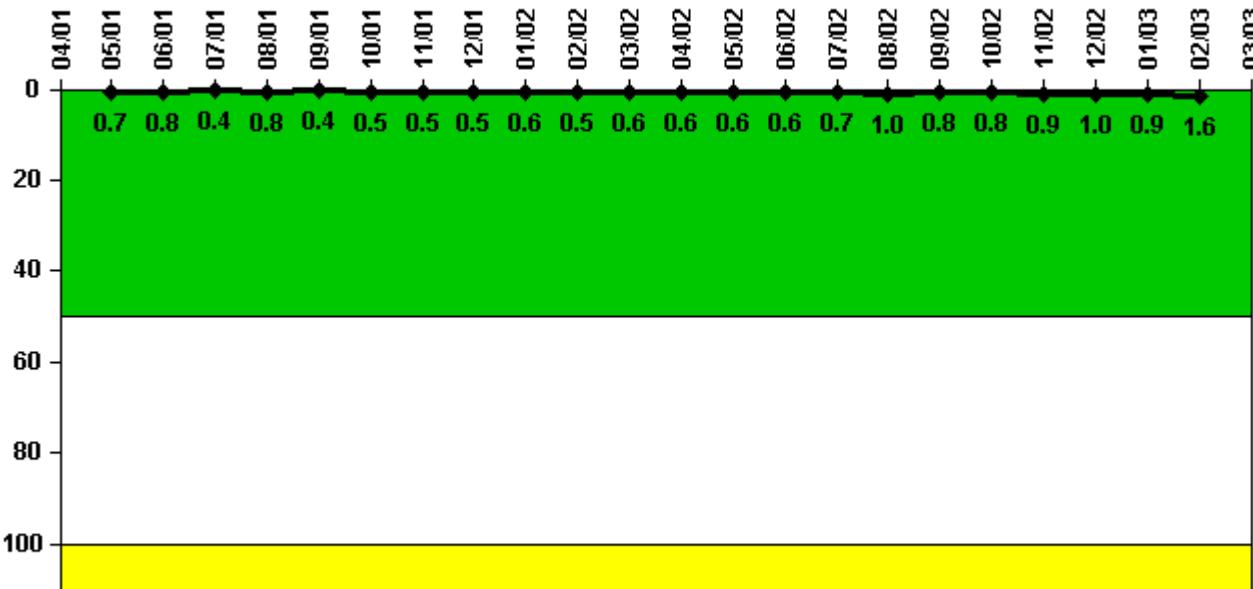
Thresholds: White > 5.0

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	1	0	0	1	0	0	0
Indicator value	0	1	1	1	2	1	1	1

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	N/A	0.007460	0.007800	0.003780	0.007770	0.004230	0.004620	0.004720	0.005170	0.005730	0.005470	0.005600
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	0.7	0.8	0.4	0.8	0.4	0.5	0.5	0.5	0.6	0.5	0.6

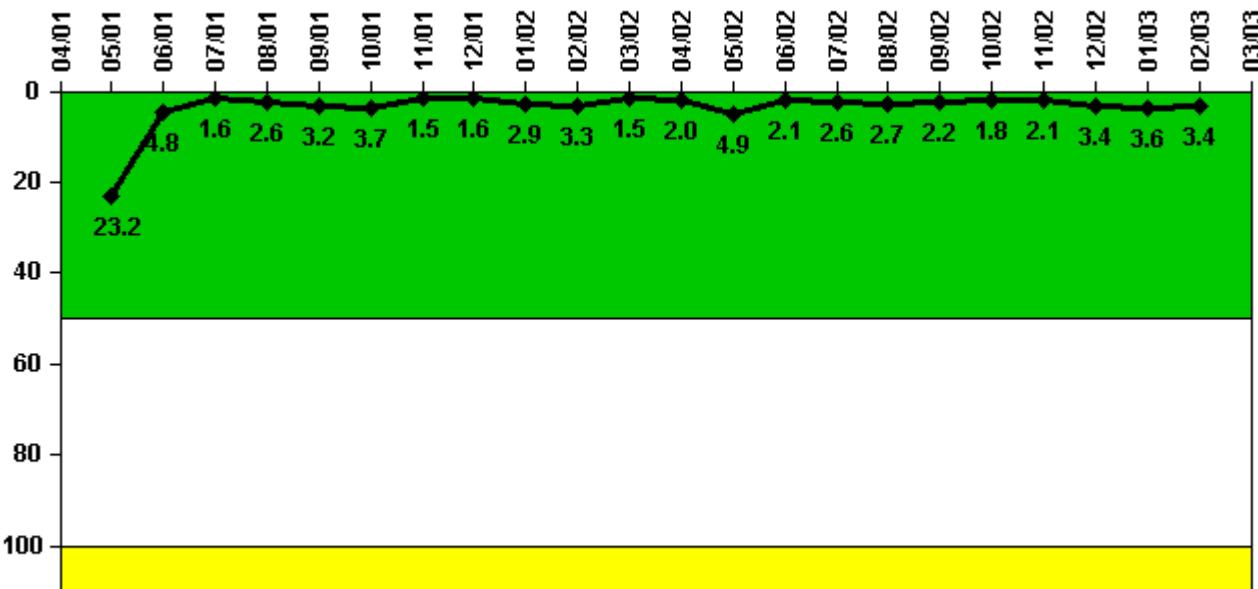
Reactor Coolant System Activity	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum activity	0.005600	0.006010	0.006200	0.006550	0.009630	0.007900	0.007980	0.008700	0.009630	0.008560	0.015900	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.6	0.6	0.6	0.7	1.0	0.8	0.8	0.9	1.0	0.9	1.6	N/A

Licensee Comments:

3/03: Refueling outage shutdown started 02/14/03. Unit 2 was in a refueling outage for the entire month of March.

3/03: Refueling outage shutdown started 02/14/03. Unit 2 was in a refueling outage for the entire month of March.

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	N/A	2.320	0.480	0.155	0.260	0.317	0.370	0.150	0.160	0.289	0.331	0.145
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	23.2	4.8	1.6	2.6	3.2	3.7	1.5	1.6	2.9	3.3	1.5

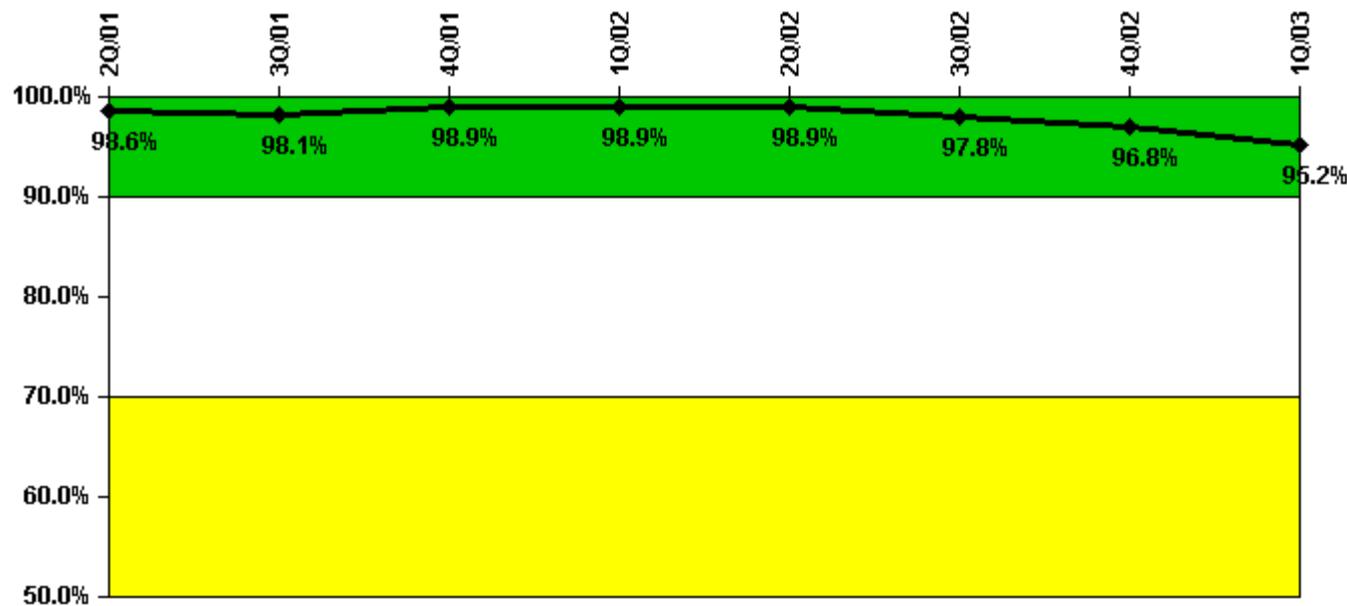
Reactor Coolant System Leakage	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum leakage	0.200	0.486	0.211	0.262	0.273	0.220	0.177	0.210	0.338	0.360	0.340	N/A
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.0	4.9	2.1	2.6	2.7	2.2	1.8	2.1	3.4	3.6	3.4	N/A

Licensee Comments:

3/03: Unit 2 shut down for refueling 02/14/03.

3/03: Unit 2 shut down for refueling 02/14/03.

Drill/Exercise Performance



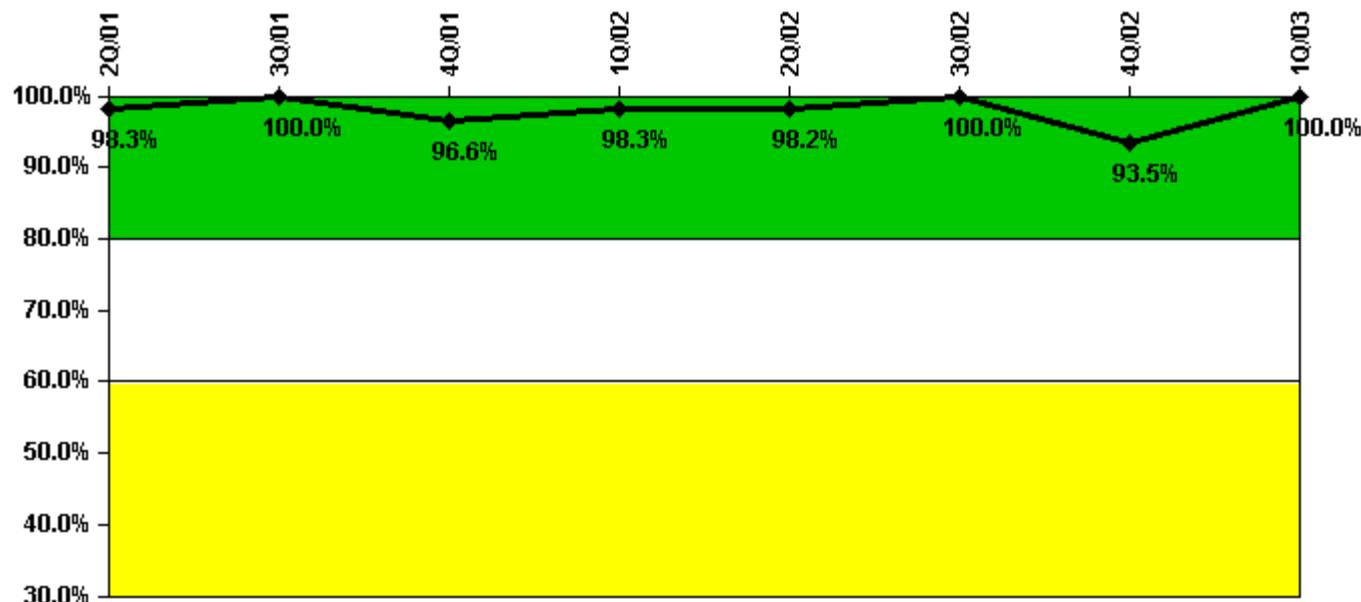
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful opportunities	22.0	27.0	25.0	14.0	8.0	34.0	39.0	9.0
Total opportunities	22.0	28.0	25.0	14.0	8.0	37.0	41.0	12.0
Indicator value	98.6%	98.1%	98.9%	98.9%	98.9%	97.8%	96.8%	95.2%

Licensee Comments: none

ERO Drill Participation



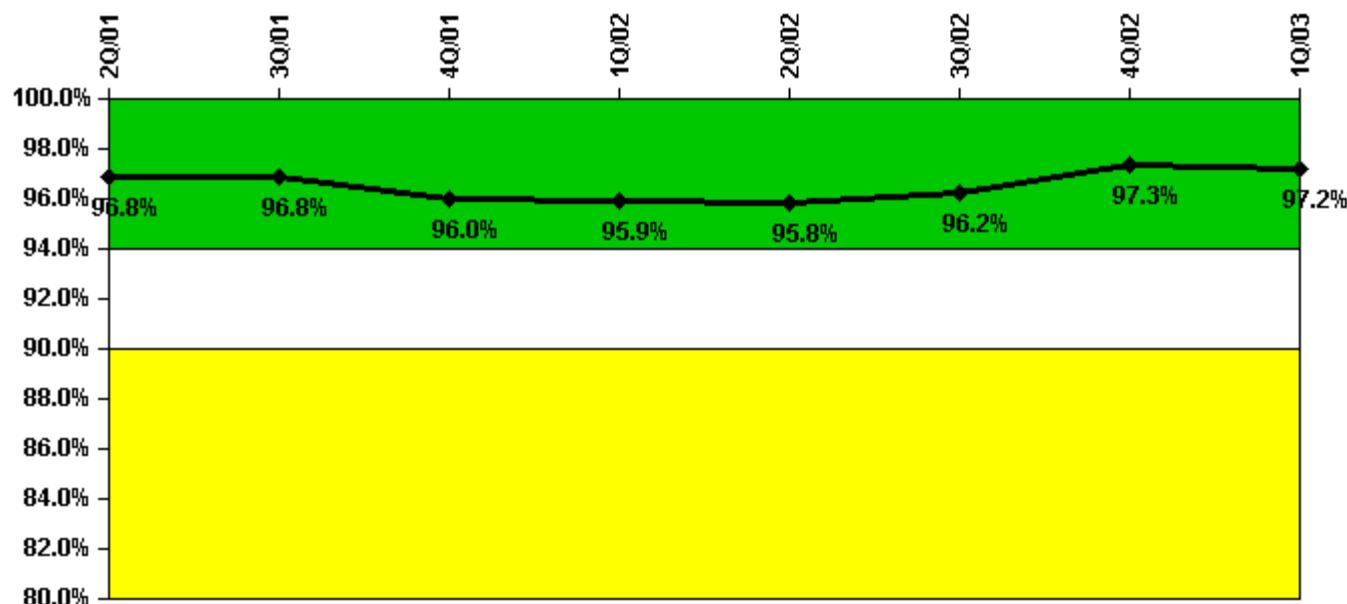
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Participating Key personnel	59.0	57.0	57.0	58.0	54.0	58.0	58.0	57.0
Total Key personnel	60.0	57.0	59.0	59.0	55.0	58.0	62.0	57.0
Indicator value	98.3%	100.0%	96.6%	98.3%	98.2%	100.0%	93.5%	100.0%

Licensee Comments: none

Alert & Notification System



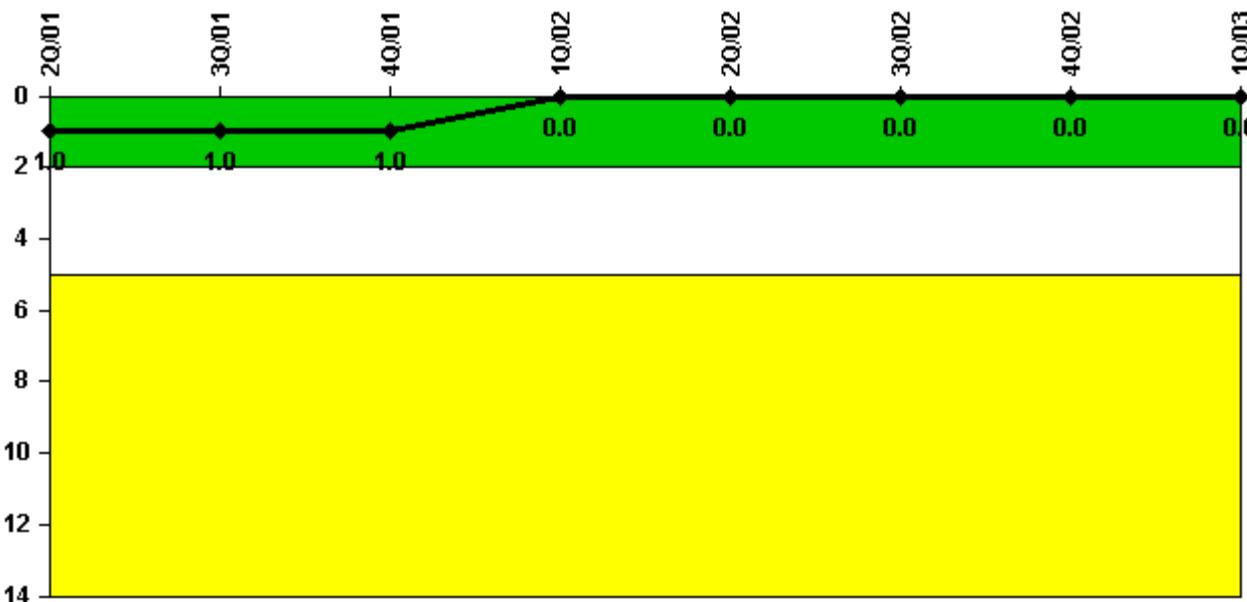
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful siren-tests	944	969	1078	918	956	1035	1007	914
Total sirens-tests	1002	1002	1140	930	1019	1057	1019	930
Indicator value	96.8%	96.8%	96.0%	95.9%	95.8%	96.2%	97.3%	97.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness

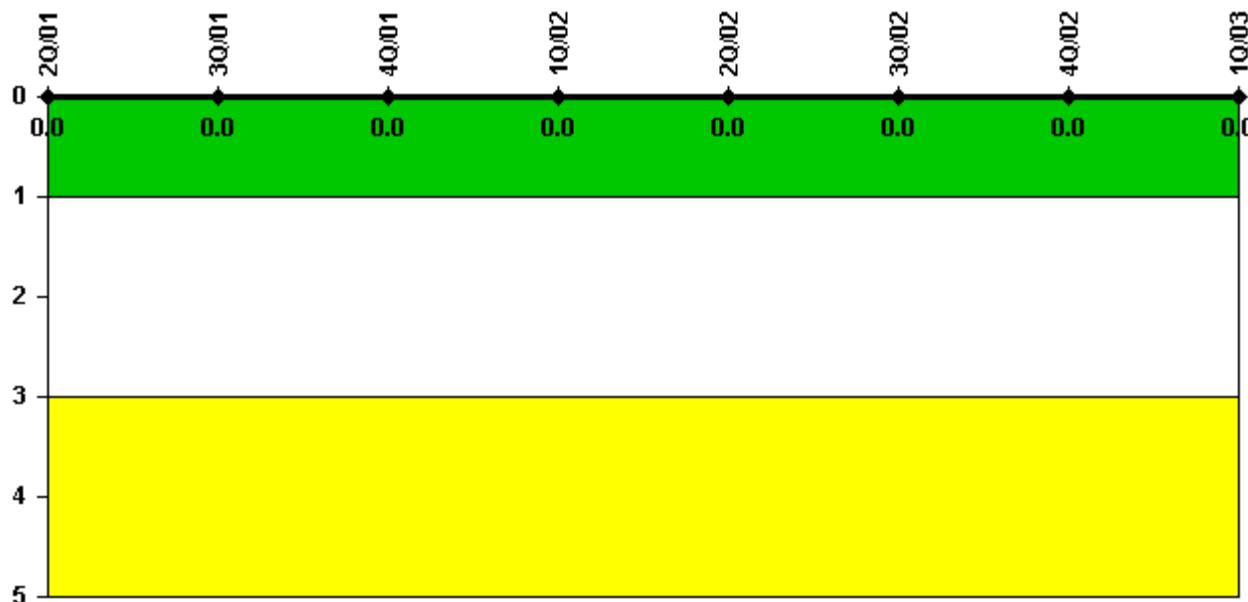


Thresholds: White > 2.0 Yellow > 5.0

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	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

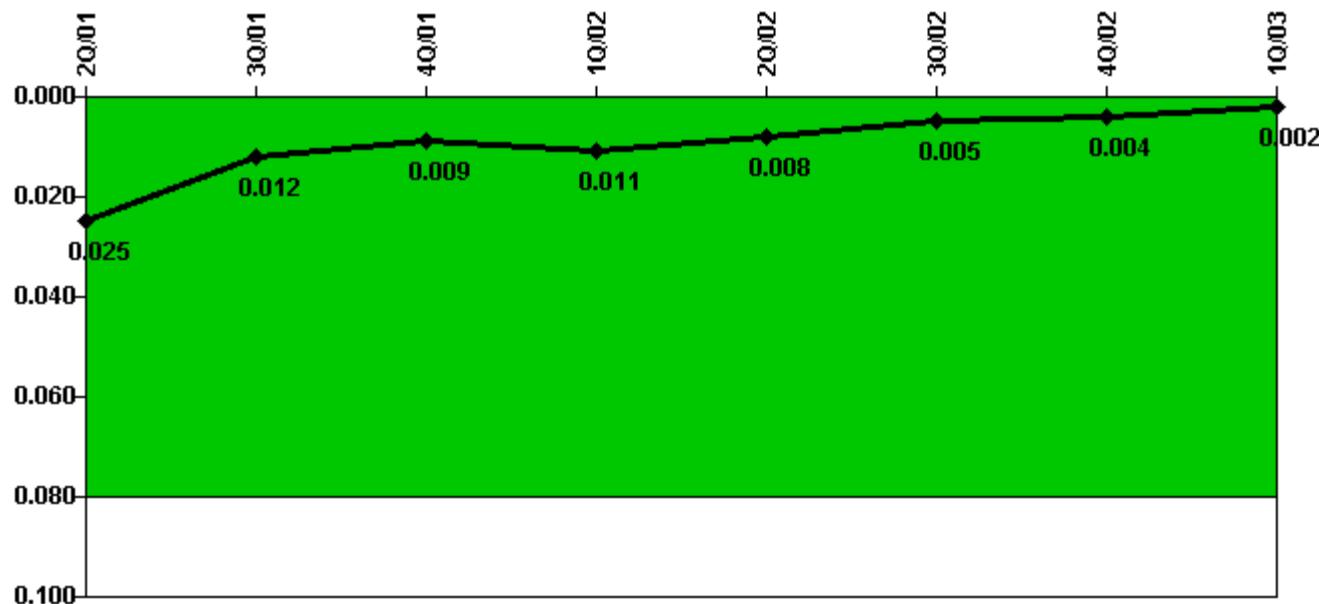
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

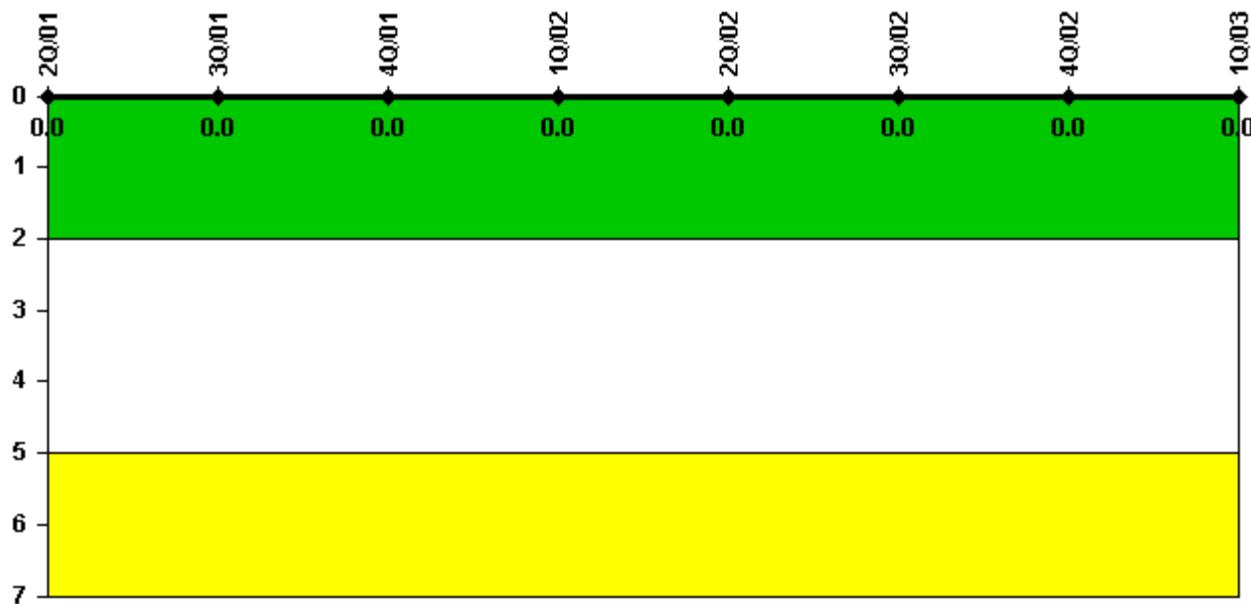


Thresholds: White > 0.080

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	85.60	69.60	39.90	51.10	1.80	7.80	14.20	24.90
CCTV compensatory hours	0	0	0	19.5	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	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Index Value	0.025	0.012	0.009	0.011	0.008	0.005	0.004	0.002

Licensee Comments: none

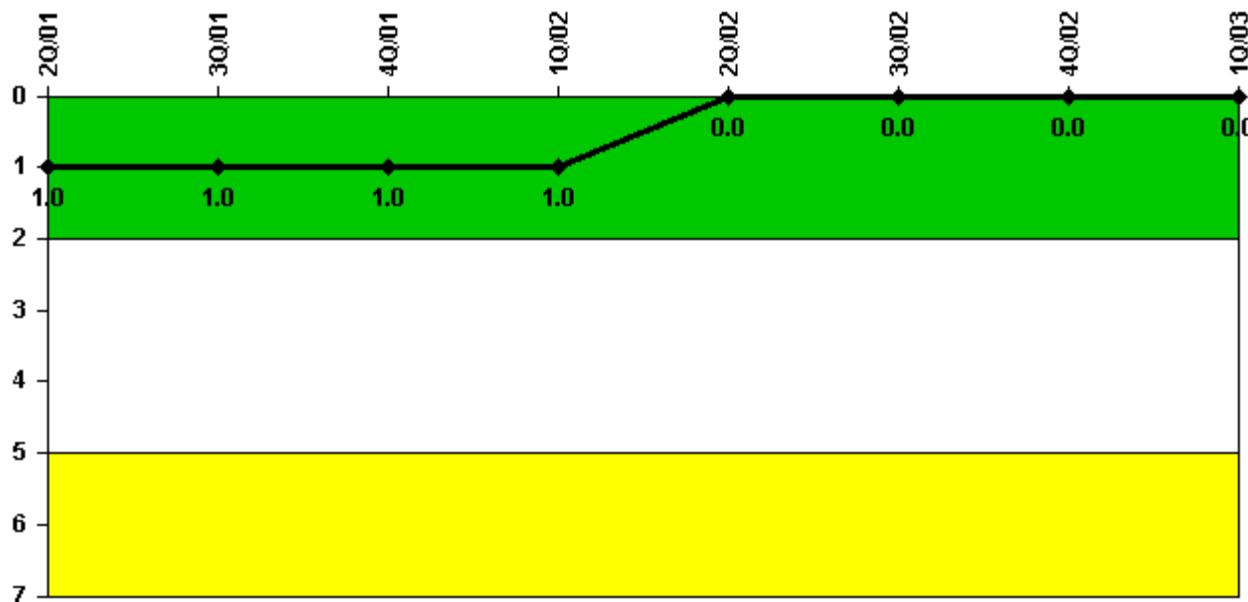
Personnel Screening Program

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

Licensee Comments: none



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

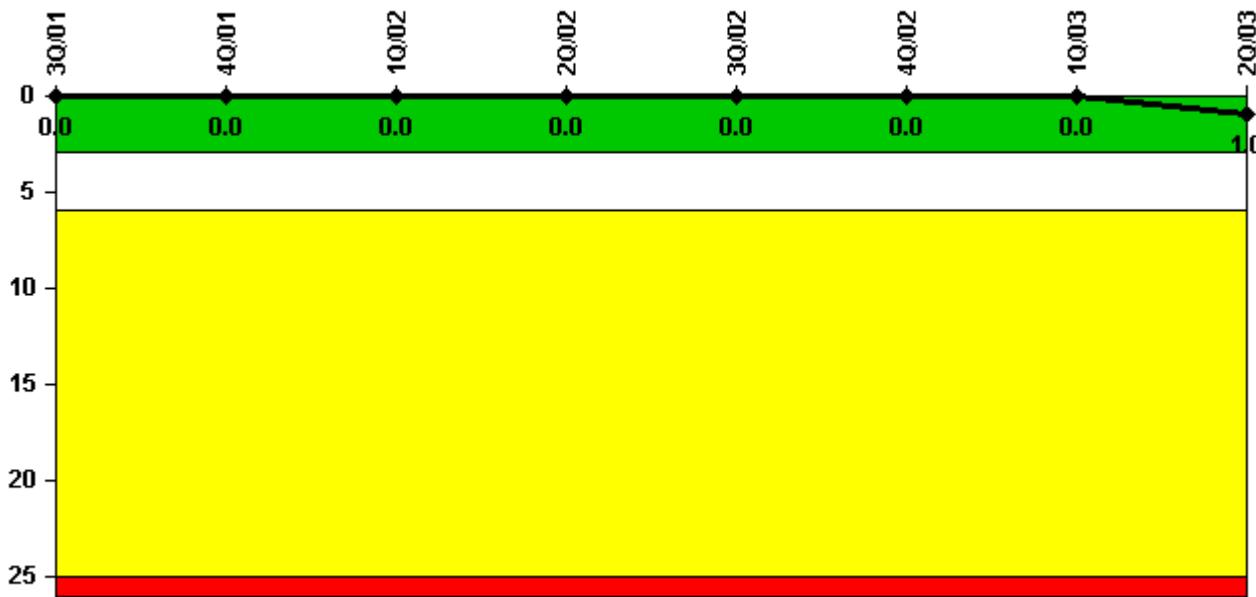
Last Modified: April 30, 2003

Calvert Cliffs 2

2Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



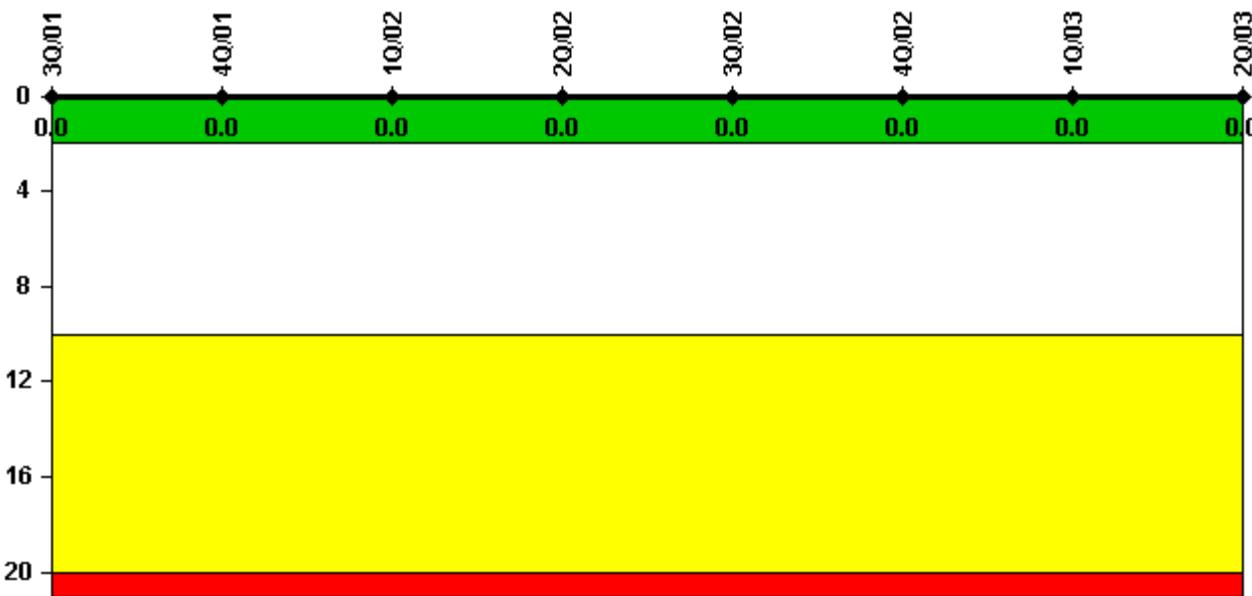
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	0	0	1.0
Critical hours	2208.0	2162.9	2160.0	2183.0	2208.0	2209.0	1079.4	1670.6
Indicator value	0	0	0	0	0	0	0	1.0

Licensee Comments:

2Q/03: 05/28/2003 - Automatic reactor trip from 100 percent power due to troubleshooting in cabinet 2T11. LER 318-03-003 applies.

Scrams with Loss of Normal Heat Removal

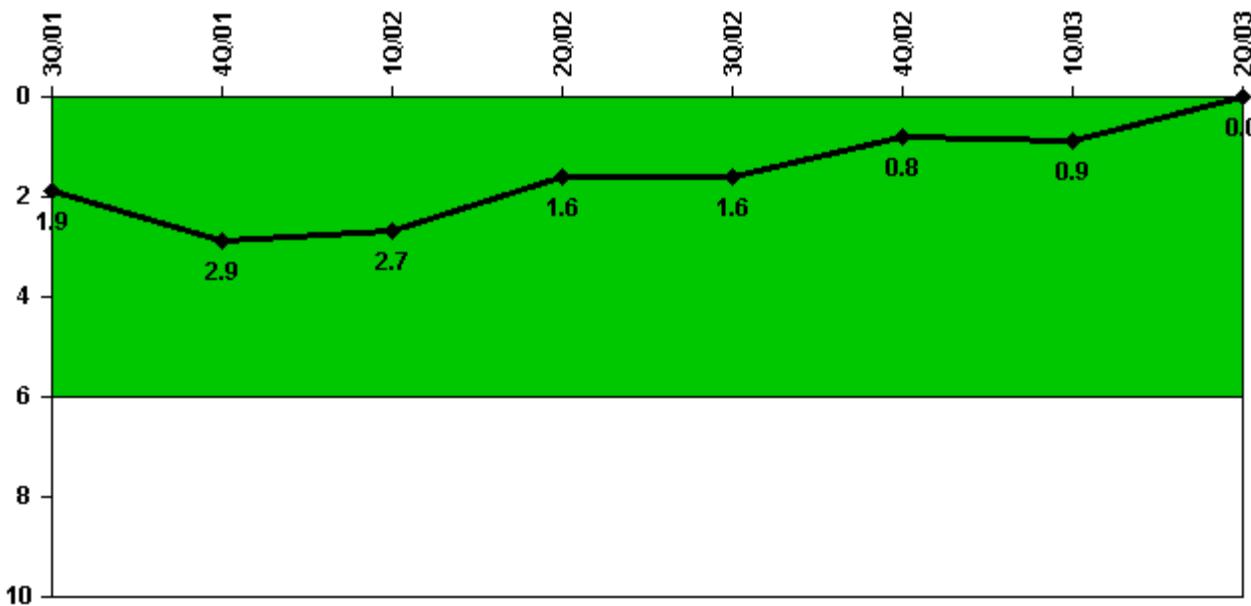
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

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	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	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned power changes	0	1.0	0	1.0	0	0	0	0
Critical hours	2208.0	2162.9	2160.0	2183.0	2208.0	2209.0	1079.4	1670.6
Indicator value	1.9	2.9	2.7	1.6	1.6	0.8	0.9	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



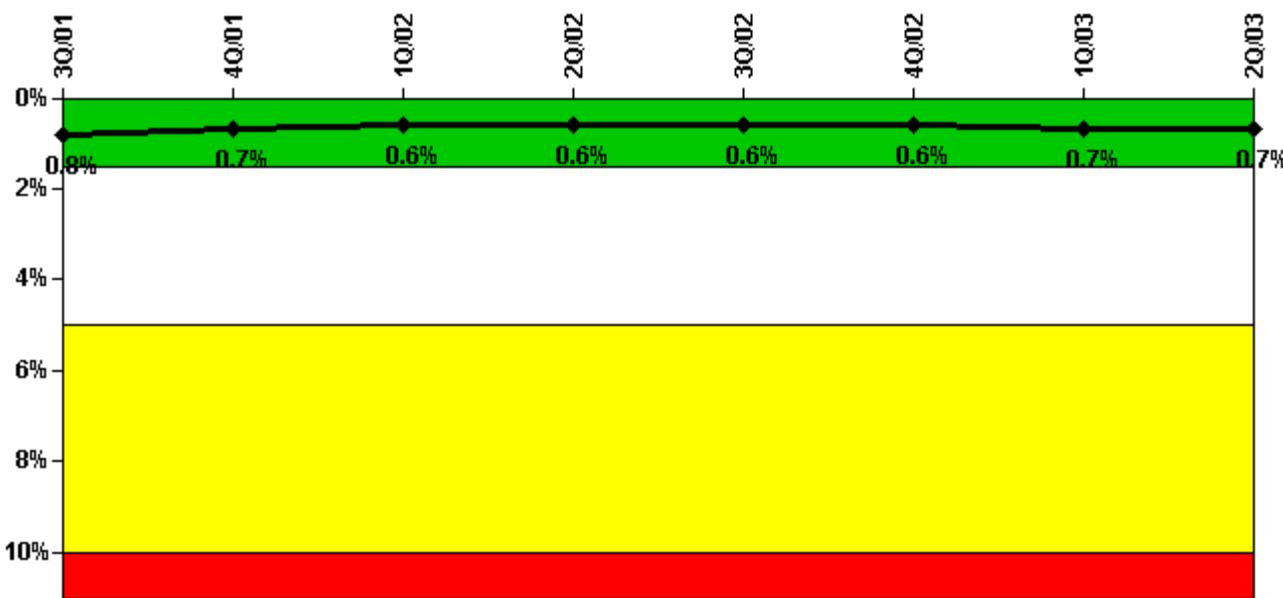
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	34.50	0.50	1.33	13.50	0	0	20.18	0
Unplanned unavailable hours	17.27	9.27	143.98	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	2160.00	2183.00
Train 2								
Planned unavailable hours	0	0.25	0	2.70	13.27	6.30	34.39	1.05
Unplanned unavailable hours	0	0	12.25	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	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	0.6%	0.5%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



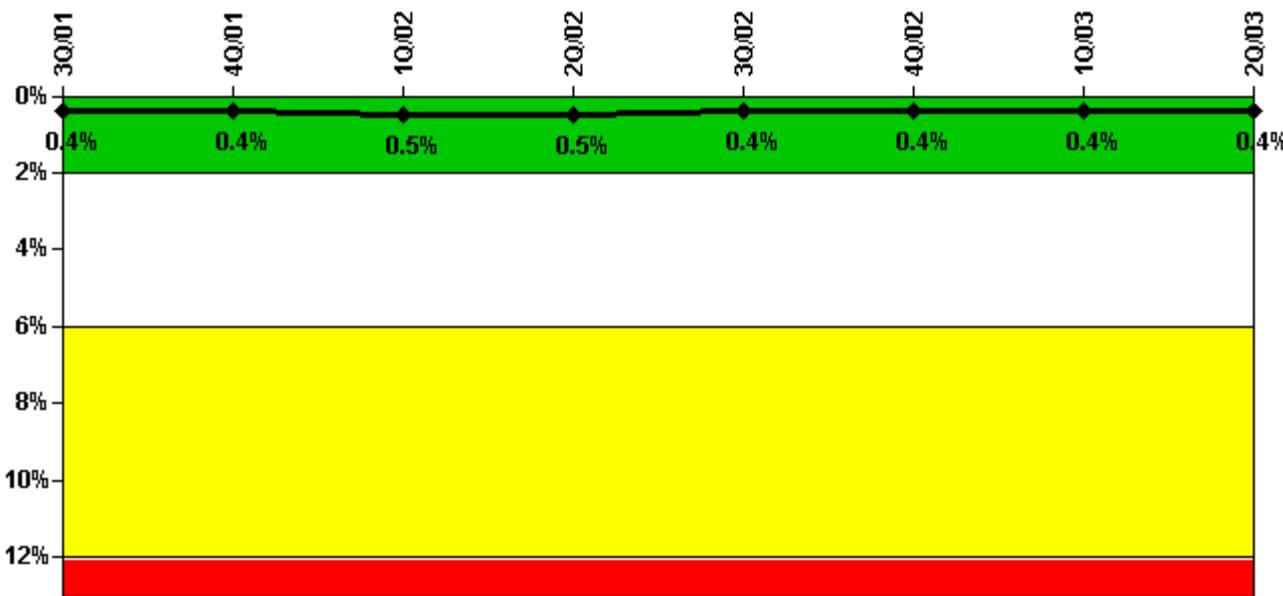
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	0.27	9.94	20.17	0.30	2.42	25.99	18.68	2.11
Unplanned unavailable hours	0	9.27	0	11.70	0	0.77	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	2208.00	2162.90	2160.00	2183.00	2208.00	2209.00	1079.40	1670.60
Train 2								
Planned unavailable hours	17.47	0.54	17.45	0.30	34.49	1.23	33.78	3.98
Unplanned unavailable hours	0	0.47	0	0	0	0	3.40	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	2162.90	2160.00	2183.00	2208.00	2209.00	1079.40	1670.60
Indicator value	0.8%	0.7%	0.6%	0.6%	0.6%	0.6%	0.7%	0.7%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



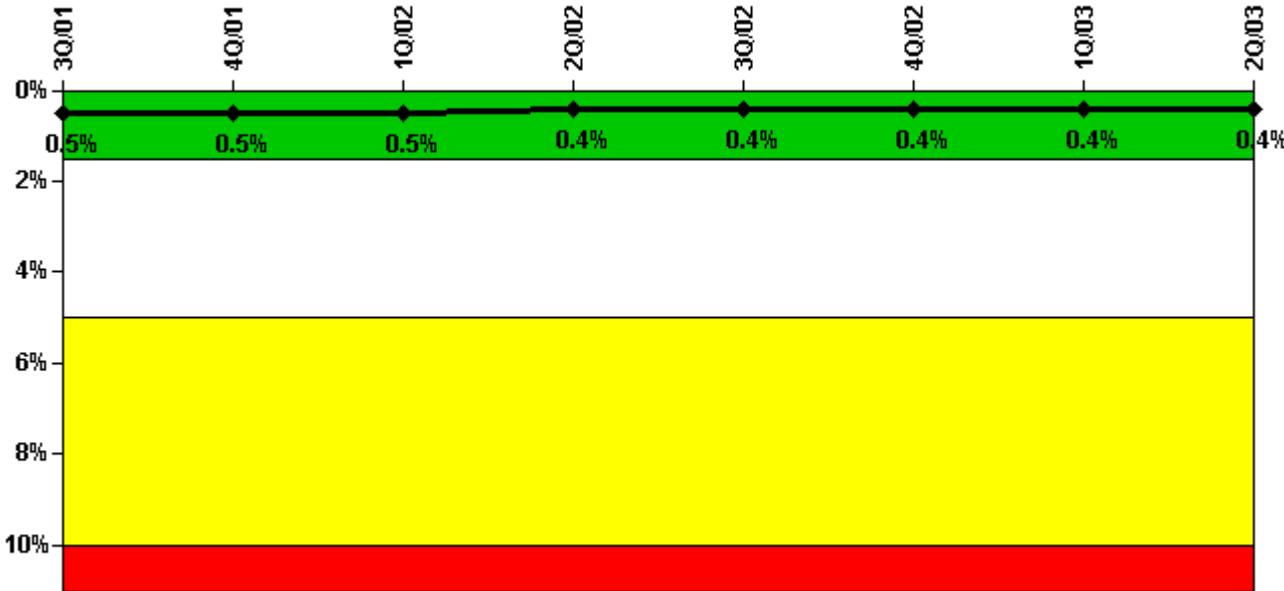
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	8.91	0.08	22.42	2.20	0	0.40	0	0.92
Unplanned unavailable hours	6.58	0	0	0	0	0.37	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	2162.90	2160.00	2183.00	2208.00	2209.00	1079.40	1670.60
Train 2								
Planned unavailable hours	13.67	0.17	22.42	2.70	0.47	1.07	0	0.42
Unplanned unavailable hours	6.58	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	2208.00	2162.90	2160.00	2183.00	2208.00	2209.00	1079.40	1670.60
Train 3								
Planned unavailable hours	38.92	13.07	0	4.60	0	0	0.52	0
Unplanned unavailable hours	0.58	0	0	0	23.38	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	2162.90	2160.00	2183.00	2208.00	2209.00	1079.40	1670.60
Indicator value	0.4%	0.4%	0.5%	0.5%	0.4%	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%

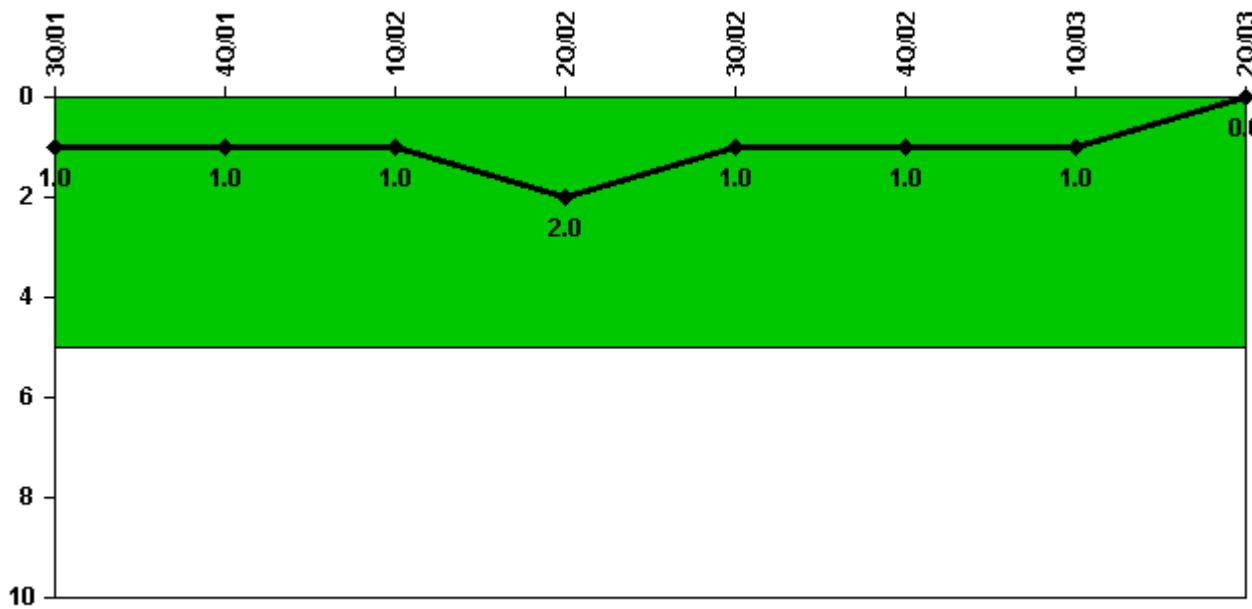
Notes

Safety System Unavailability, Residual Heat Removal System	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	0	0	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	0	19.30	0	0	0	0	304.50	300.00
Train 2								
Planned unavailable hours	0	0	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	0	19.30	0	0	0	0	304.50	300.00
Train 3								
Planned unavailable hours	2.62	25.68	21.59	18.10	2.49	3.66	18.24	6.55
Unplanned unavailable hours	0	9.27	0	11.70	1.92	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	2189.70	2160.00	2183.00	2208.00	2209.00	1090.30	1741.90
Train 4								
Planned unavailable hours	22.54	1.91	18.47	6.40	42.50	3.06	33.74	19.05

Unplanned unavailable hours	0	0	0	0	3.15	0	3.40	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	2189.70	2160.00	2183.00	2208.00	2209.00	1090.30	1741.90
Indicator value	0.5%	0.5%	0.5%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Functional Failures (PWR)



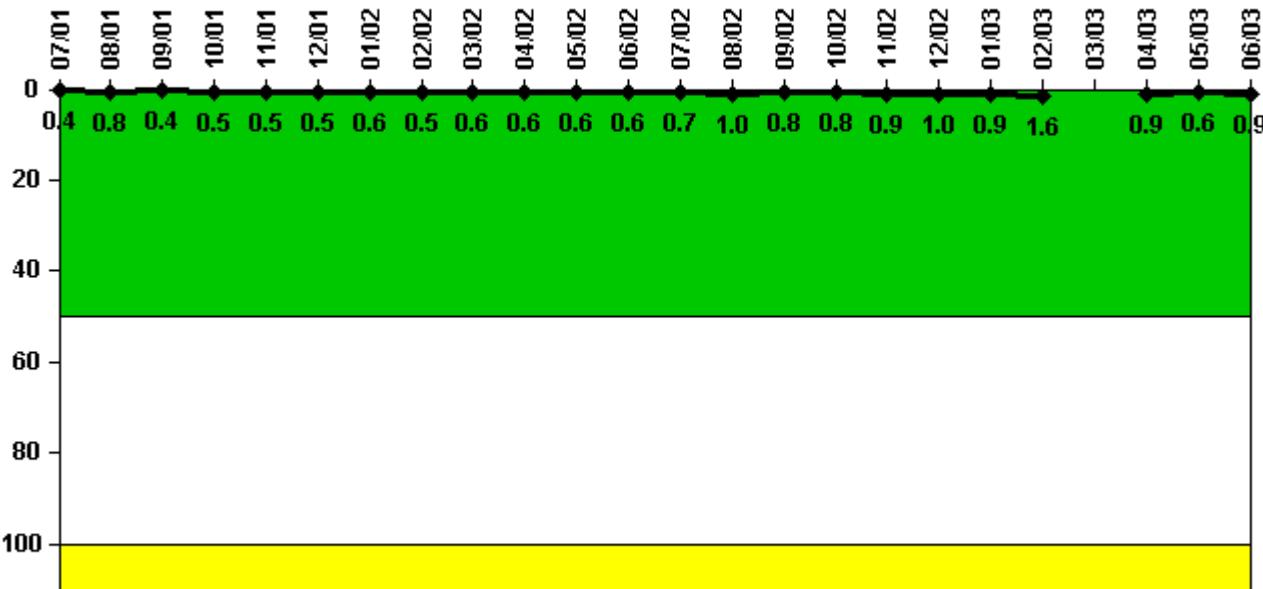
Thresholds: White > 5.0

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	1	0	0	1	0	0	0	0
Indicator value	1	1	1	2	1	1	1	0

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

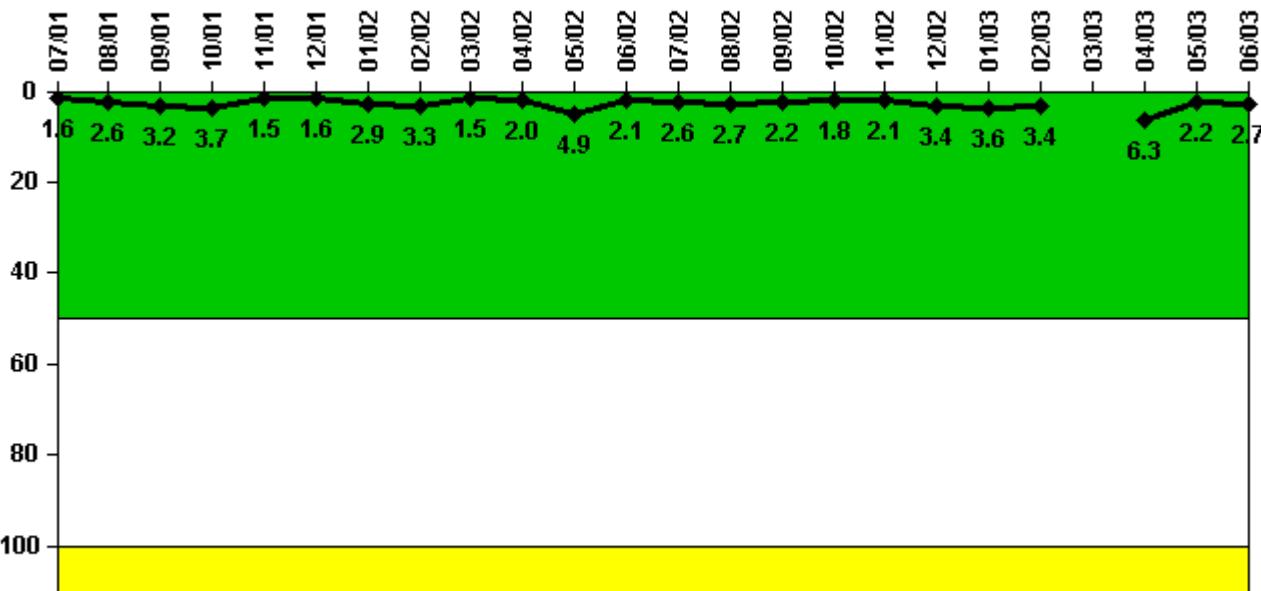
Reactor Coolant System Activity	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum activity	0.003780	0.007770	0.004230	0.004620	0.004720	0.005170	0.005730	0.005470	0.005600	0.005600	0.006010	0.006200
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.8	0.4	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.6
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	0.006550	0.009630	0.007900	0.007980	0.008700	0.009630	0.008560	0.015900	N/A	0.009480	0.005990	0.008670
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	0.7	1.0	0.8	0.8	0.9	1.0	0.9	1.6	N/A	0.9	0.6	0.9

Licensee Comments:

6/03: Cycle 15 startup 04/21/03. Unit 2 reactor in Mode 3 05/28/2003 due to main turbine trip. Started up on 05/29/2003. Increased to 100% power on 05/30/2003.

3/03: Refueling outage shutdown started 02/14/03. Unit 2 was in a refueling outage for the entire month of March.

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	0.155	0.260	0.317	0.370	0.150	0.160	0.289	0.331	0.145	0.200	0.486	0.211
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	1.6	2.6	3.2	3.7	1.5	1.6	2.9	3.3	1.5	2.0	4.9	2.1

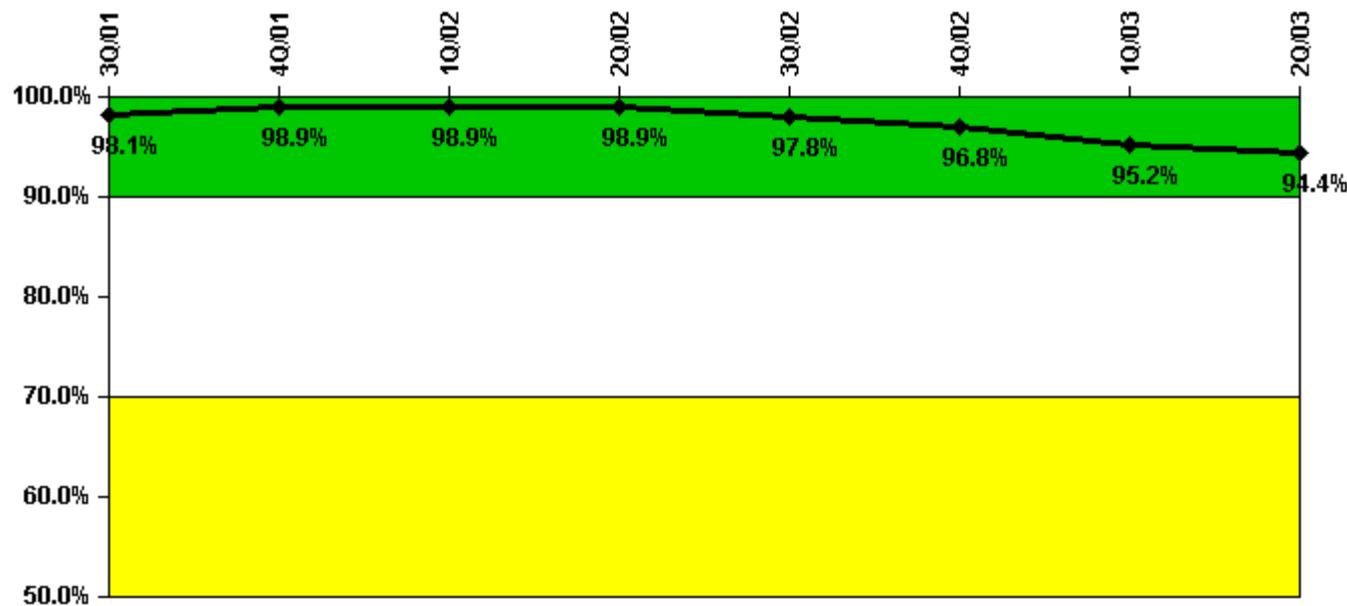
Reactor Coolant System Leakage	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum leakage	0.262	0.273	0.220	0.177	0.210	0.338	0.360	0.340	N/A	0.630	0.220	0.270
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.6	2.7	2.2	1.8	2.1	3.4	3.6	3.4	N/A	6.3	2.2	2.7

Licensee Comments:

6/03: The 0.63 gpm leak rate was recorded during plant startup.

3/03: Unit 2 shut down for refueling 02/14/03.

Drill/Exercise Performance

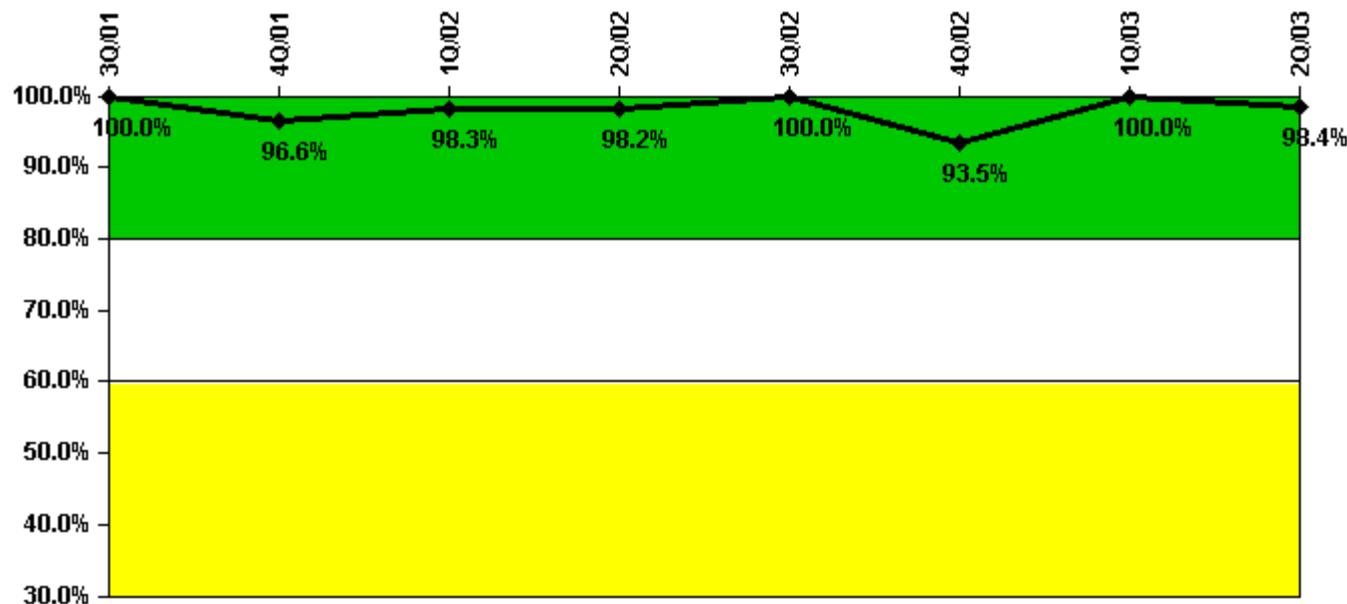


Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Successful opportunities	27.0	25.0	14.0	8.0	34.0	39.0	9.0	14.0
Total opportunities	28.0	25.0	14.0	8.0	37.0	41.0	12.0	15.0
Indicator value	98.1%	98.9%	98.9%	98.9%	97.8%	96.8%	95.2%	94.4%

Licensee Comments: none

ERO Drill Participation

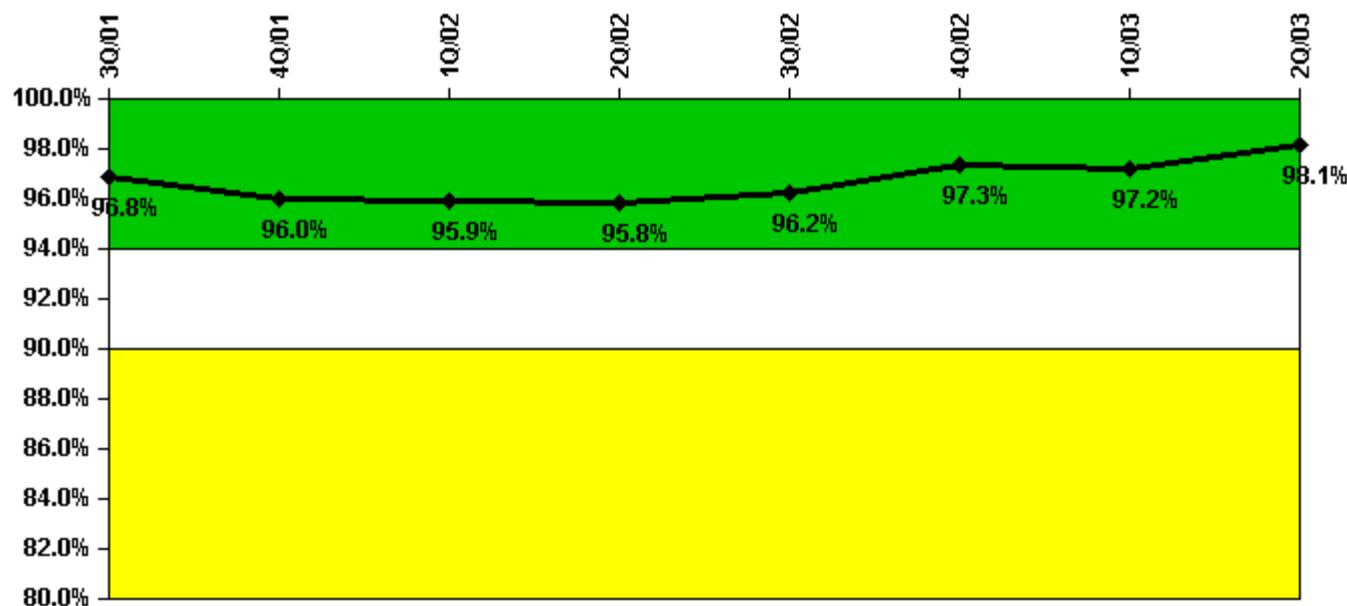
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Participating Key personnel	57.0	57.0	58.0	54.0	58.0	58.0	57.0	63.0
Total Key personnel	57.0	59.0	59.0	55.0	58.0	62.0	57.0	64.0
Indicator value	100.0%	96.6%	98.3%	98.2%	100.0%	93.5%	100.0%	98.4%

Licensee Comments: none

Alert & Notification System



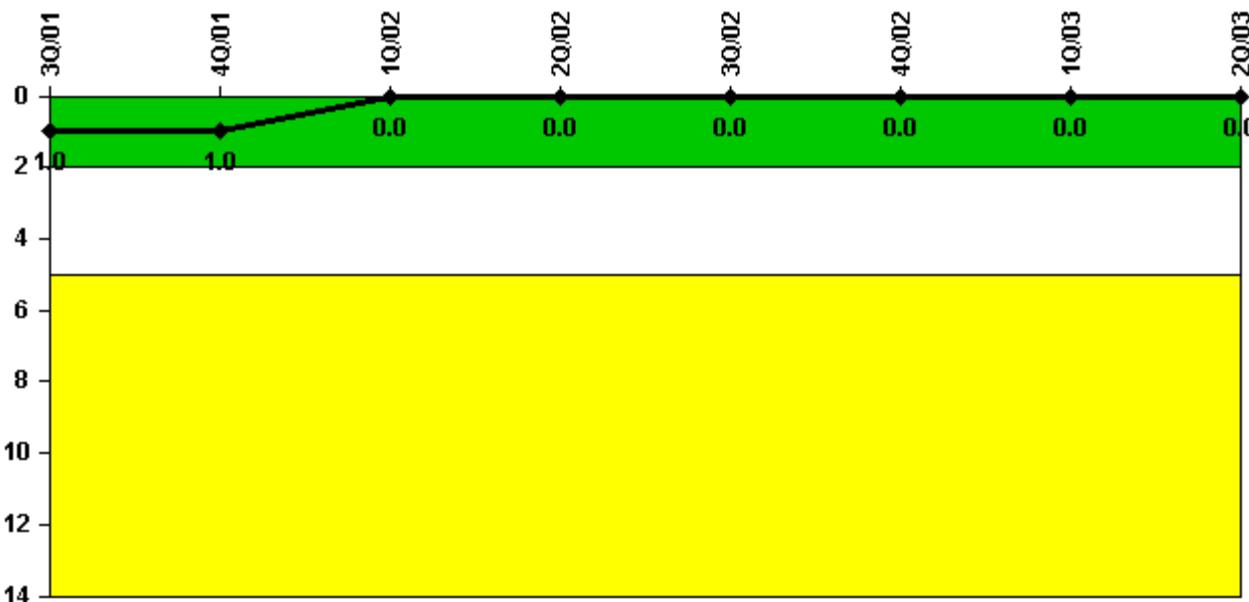
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Successful siren-tests	969	1078	918	956	1035	1007	914	3992
Total sirens-tests	1002	1140	930	1019	1057	1019	930	4080
Indicator value	96.8%	96.0%	95.9%	95.8%	96.2%	97.3%	97.2%	98.1%

Licensee Comments: none

Occupational Exposure Control Effectiveness

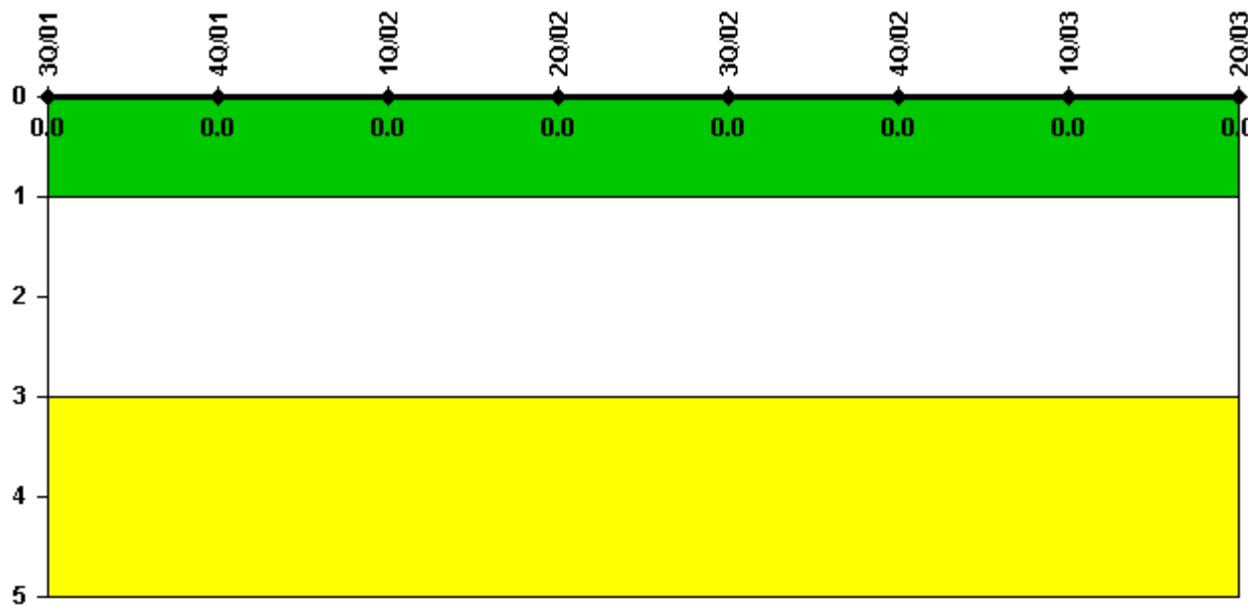


Thresholds: White > 2.0 Yellow > 5.0

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	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

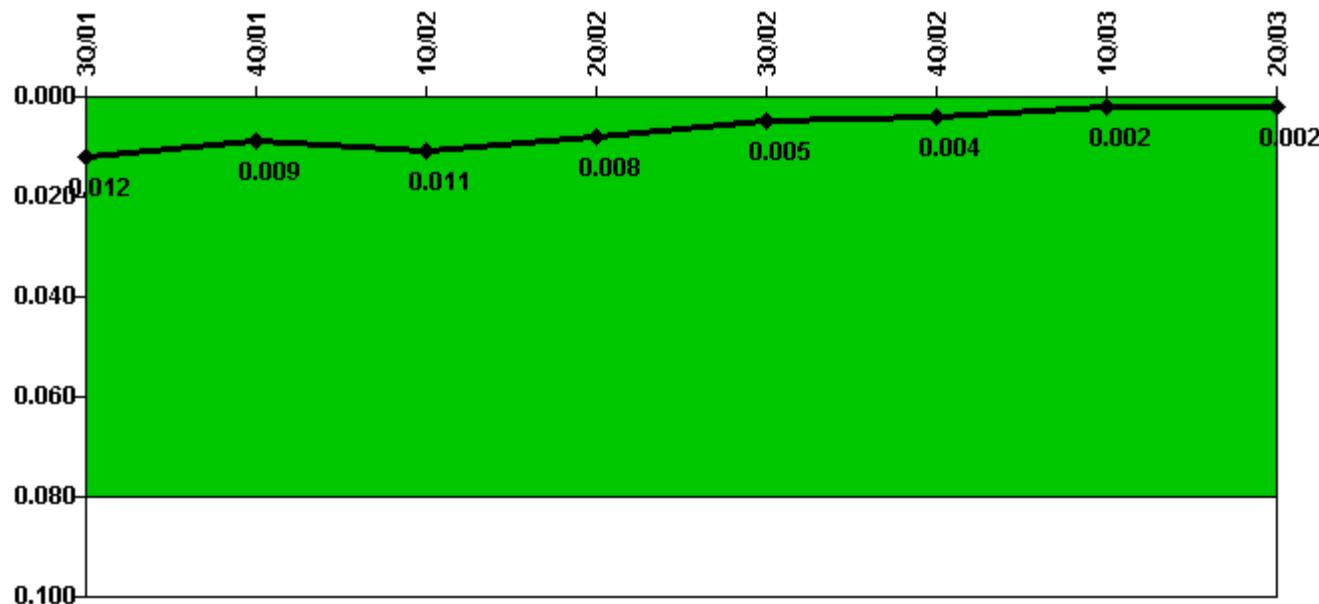
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

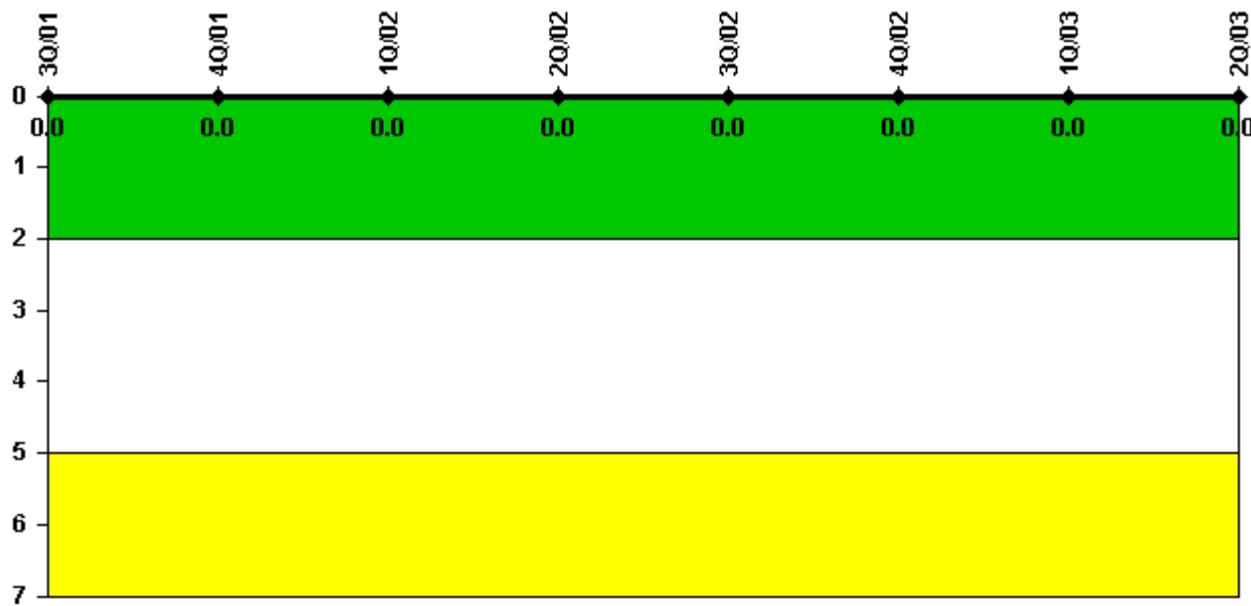


Thresholds: White > 0.080

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	69.60	39.90	51.10	1.80	7.80	14.20	24.90	11.70
CCTV compensatory hours	0	0	19.5	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	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Index Value	0.012	0.009	0.011	0.008	0.005	0.004	0.002	0.002

Licensee Comments: none

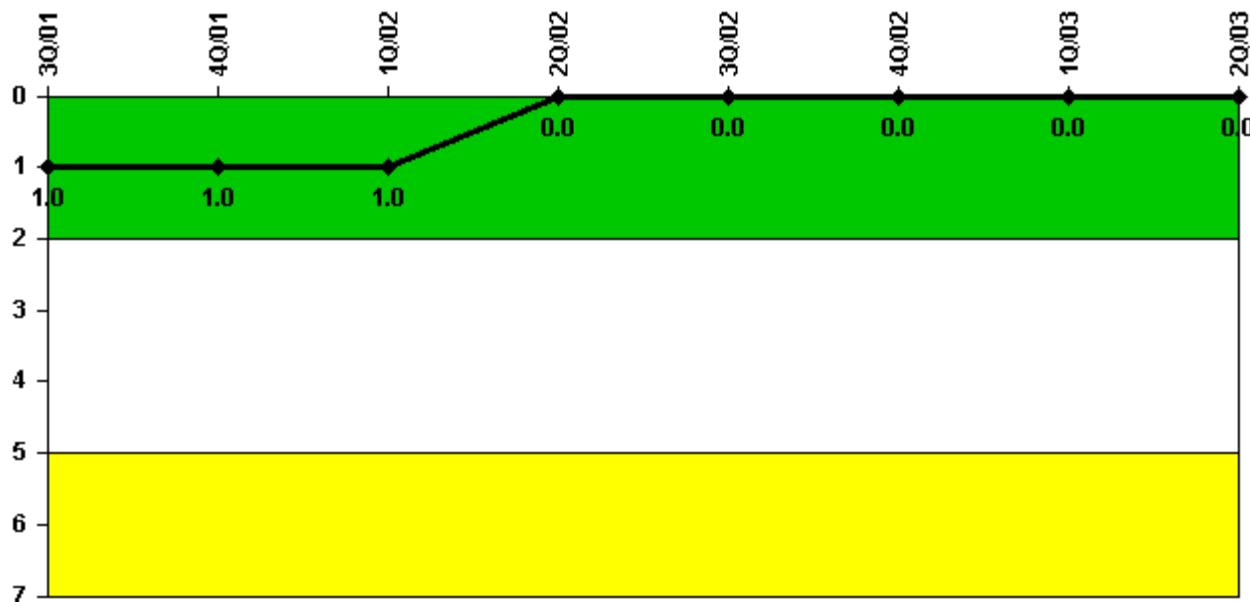
Personnel Screening Program

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	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	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	1	1	1	0	0	0	0	0

Licensee Comments: none



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

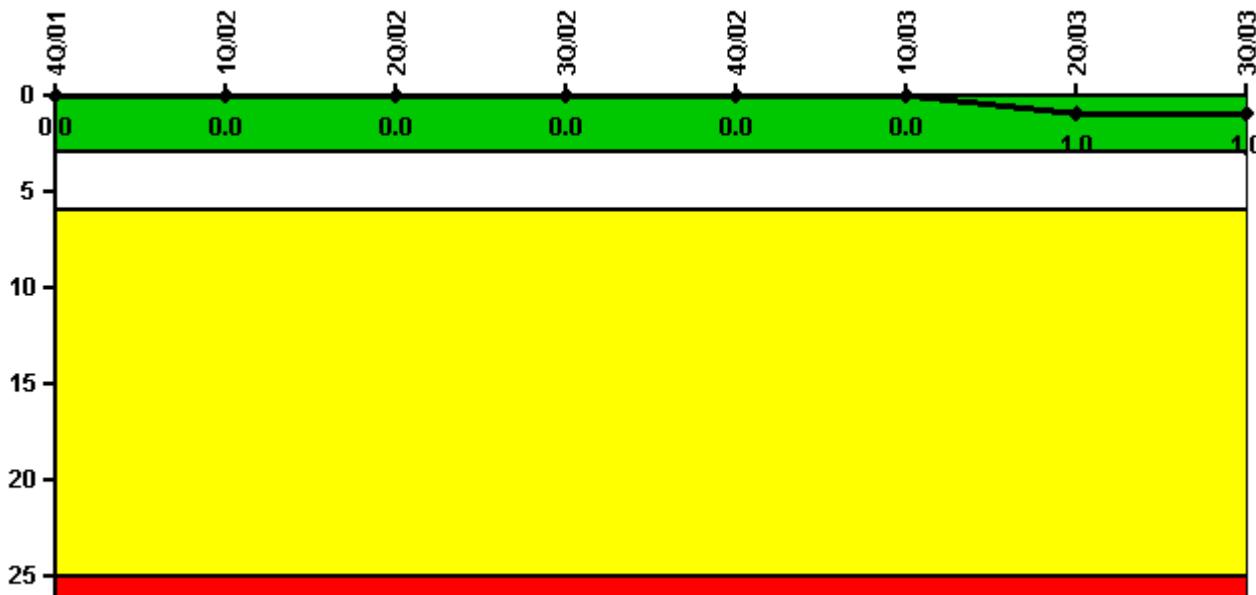
Last Modified: July 22, 2003

Calvert Cliffs 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	0	0	0	0	0	0	1.0	0
Critical hours	2162.9	2160.0	2183.0	2208.0	2209.0	1079.4	1670.6	2208.0
Indicator value	0	0	0	0	0	0	1.0	1.0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

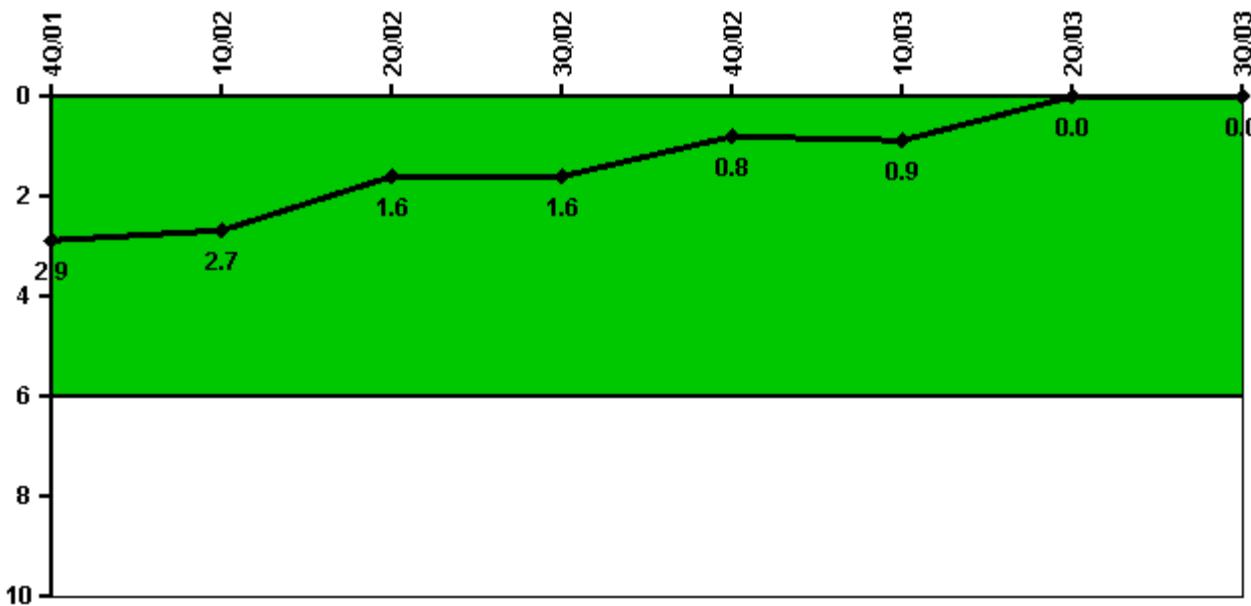
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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



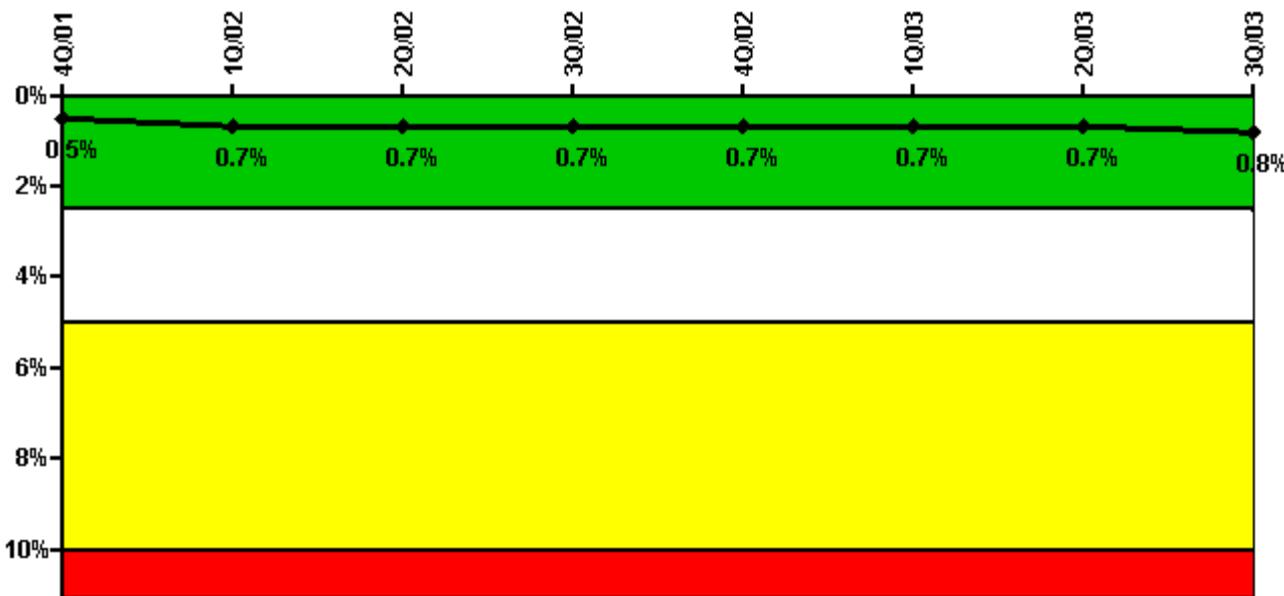
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned power changes	1.0	0	1.0	0	0	0	0	0
Critical hours	2162.9	2160.0	2183.0	2208.0	2209.0	1079.4	1670.6	2208.0
Indicator value	2.9	2.7	1.6	1.6	0.8	0.9	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



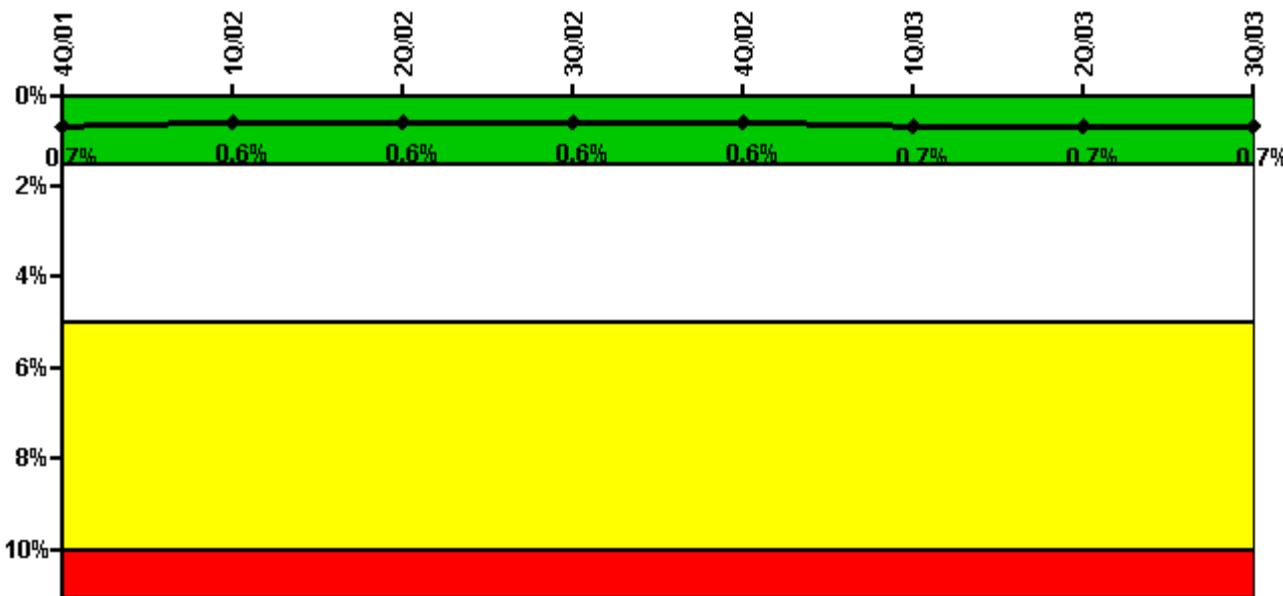
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0.50	1.33	13.50	0	0	20.18	0	0
Unplanned unavailable hours	9.27	143.98	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	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0.25	0	2.70	13.27	6.30	34.39	1.05	32.42
Unplanned unavailable hours	0	12.25	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	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	0.5%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.8%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



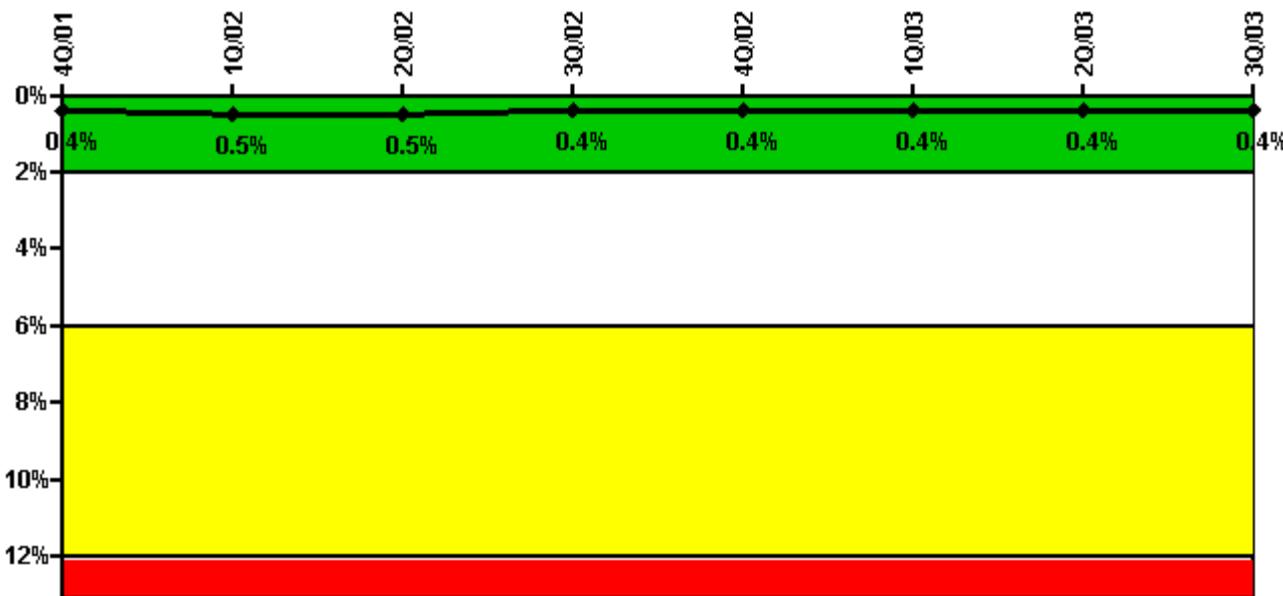
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	9.94	20.17	0.30	2.42	25.99	18.68	2.11	2.58
Unplanned unavailable hours	9.27	0	11.70	0	0.77	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	2162.90	2160.00	2183.00	2208.00	2209.00	1079.40	1670.60	2208.00
Train 2								
Planned unavailable hours	0.54	17.45	0.30	34.49	1.23	33.78	3.98	35.00
Unplanned unavailable hours	0.47	0	0	0	0	3.40	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	2162.90	2160.00	2183.00	2208.00	2209.00	1079.40	1670.60	2208.00
Indicator value	0.7%	0.6%	0.6%	0.6%	0.6%	0.7%	0.7%	0.7%

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	0.08	22.42	2.20	0	0.40	0	0.92	0
Unplanned unavailable hours	0	0	0	0	0.37	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	2162.90	2160.00	2183.00	2208.00	2209.00	1079.40	1670.60	2208.00
Train 2								
Planned unavailable hours	0.17	22.42	2.70	0.47	1.07	0	0.42	0.97
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	2162.90	2160.00	2183.00	2208.00	2209.00	1079.40	1670.60	2208.00
Train 3								
Planned unavailable hours	13.07	0	4.60	0	0	0.52	0	0
Unplanned unavailable hours	0	0	0	23.38	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	2162.90	2160.00	2183.00	2208.00	2209.00	1079.40	1670.60	2208.00
Indicator value	0.4%	0.5%	0.5%	0.4%	0.4%	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%

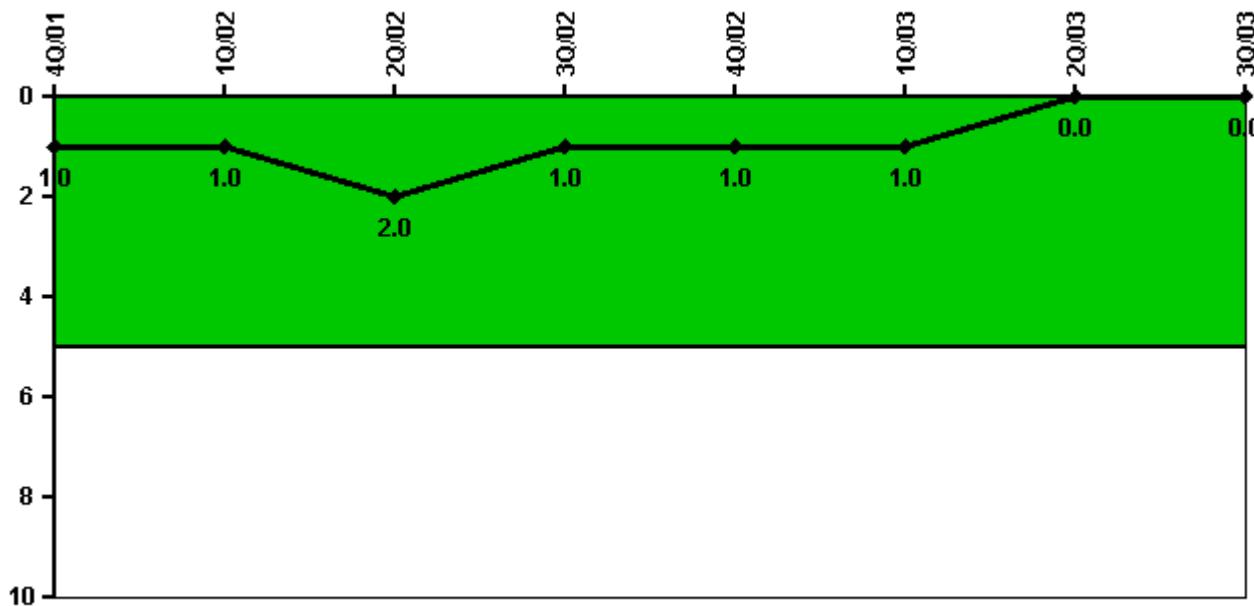
Notes

Safety System Unavailability, Residual Heat Removal System	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0	0	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	19.30	0	0	0	0	304.50	300.00	0
Train 2								
Planned unavailable hours	0	0	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	19.30	0	0	0	0	304.50	300.00	0
Train 3								
Planned unavailable hours	25.68	21.59	18.10	2.49	3.66	18.24	6.55	3.43
Unplanned unavailable hours	9.27	0	11.70	1.92	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	2189.70	2160.00	2183.00	2208.00	2209.00	1090.30	1741.90	2208.00
Train 4								
Planned unavailable hours	1.91	18.47	6.40	42.50	3.06	33.74	19.05	34.77

Unplanned unavailable hours	0	0	0	3.15	0	3.40	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	2189.70	2160.00	2183.00	2208.00	2209.00	1090.30	1741.90	2208.00
Indicator value	0.5%	0.5%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Functional Failures (PWR)



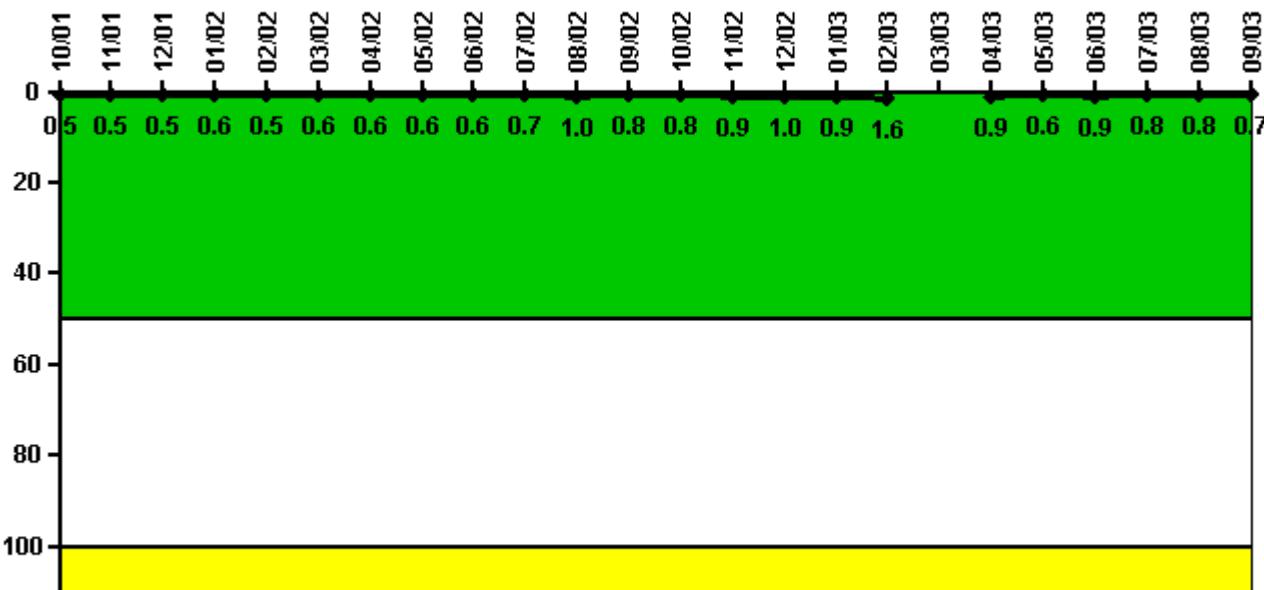
Thresholds: White > 5.0

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	1	0	0	0	0	0
Indicator value	1	1	2	1	1	1	0	0

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

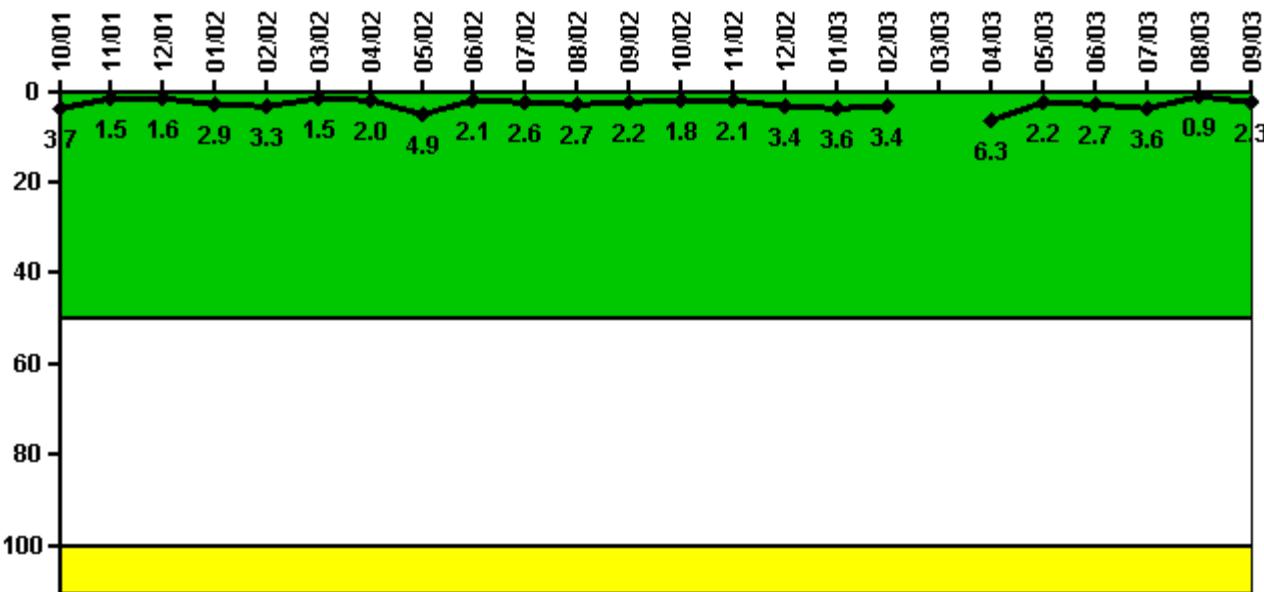
Notes

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	0.004620	0.004720	0.005170	0.005730	0.005470	0.005600	0.005600	0.006010	0.006200	0.006550	0.009630	0.007900
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	0.5	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.7	1.0	0.8

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	0.007980	0.008700	0.009630	0.008560	0.015900	N/A	0.009480	0.005990	0.008670	0.007940	0.007550	0.006680
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	0.8	0.9	1.0	0.9	1.6	N/A	0.9	0.6	0.9	0.8	0.8	0.7

Licensee Comments: none

Reactor Coolant System Leakage



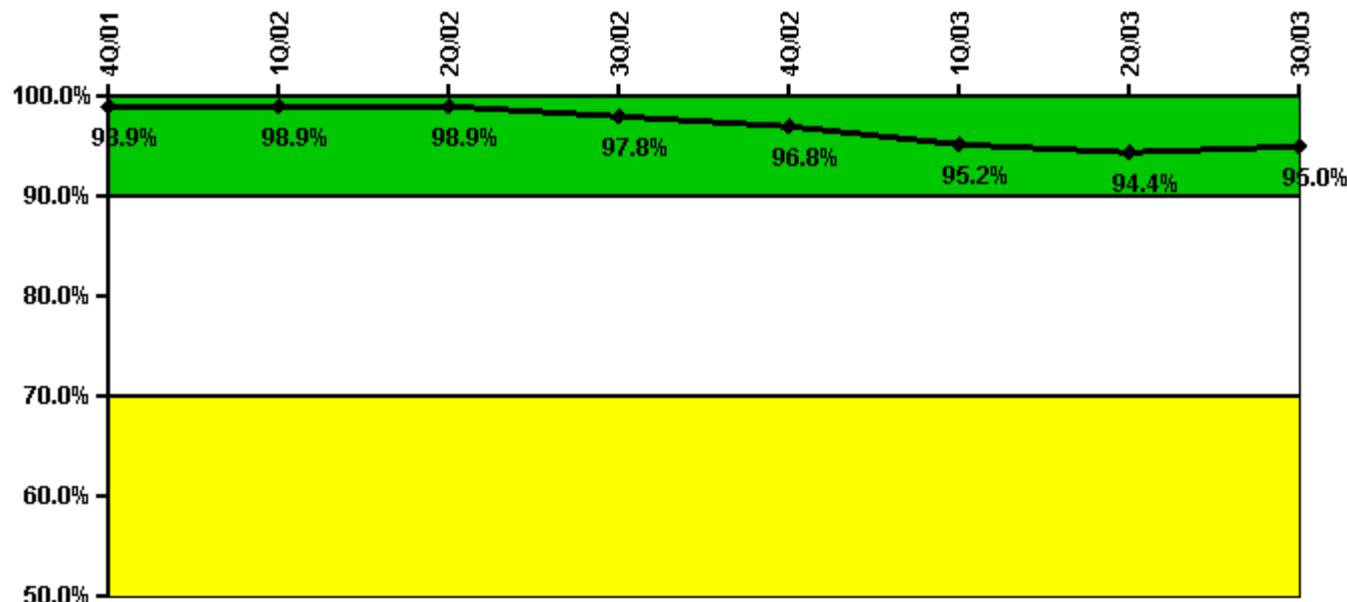
Thresholds: White > 50.0 Yellow > 100.0

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	0.370	0.150	0.160	0.289	0.331	0.145	0.200	0.486	0.211	0.262	0.273	0.220
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	3.7	1.5	1.6	2.9	3.3	1.5	2.0	4.9	2.1	2.6	2.7	2.2

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	0.177	0.210	0.338	0.360	0.340	N/A	0.630	0.220	0.270	0.357	0.094	0.228
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	1.8	2.1	3.4	3.6	3.4	N/A	6.3	2.2	2.7	3.6	0.9	2.3

Licensee Comments: none

Drill/Exercise Performance

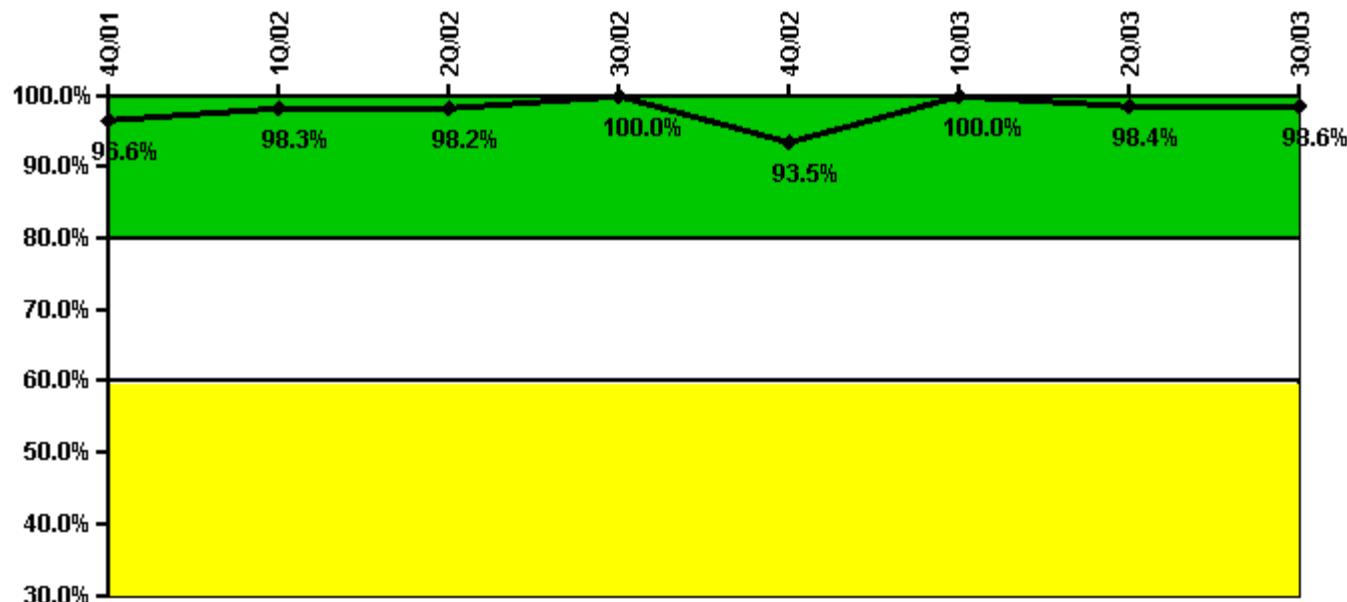
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Successful opportunities	25.0	14.0	8.0	34.0	39.0	9.0	14.0	29.0
Total opportunities	25.0	14.0	8.0	37.0	41.0	12.0	15.0	29.0
Indicator value	98.9%	98.9%	98.9%	97.8%	96.8%	95.2%	94.4%	95.0%

Licensee Comments: none

ERO Drill Participation



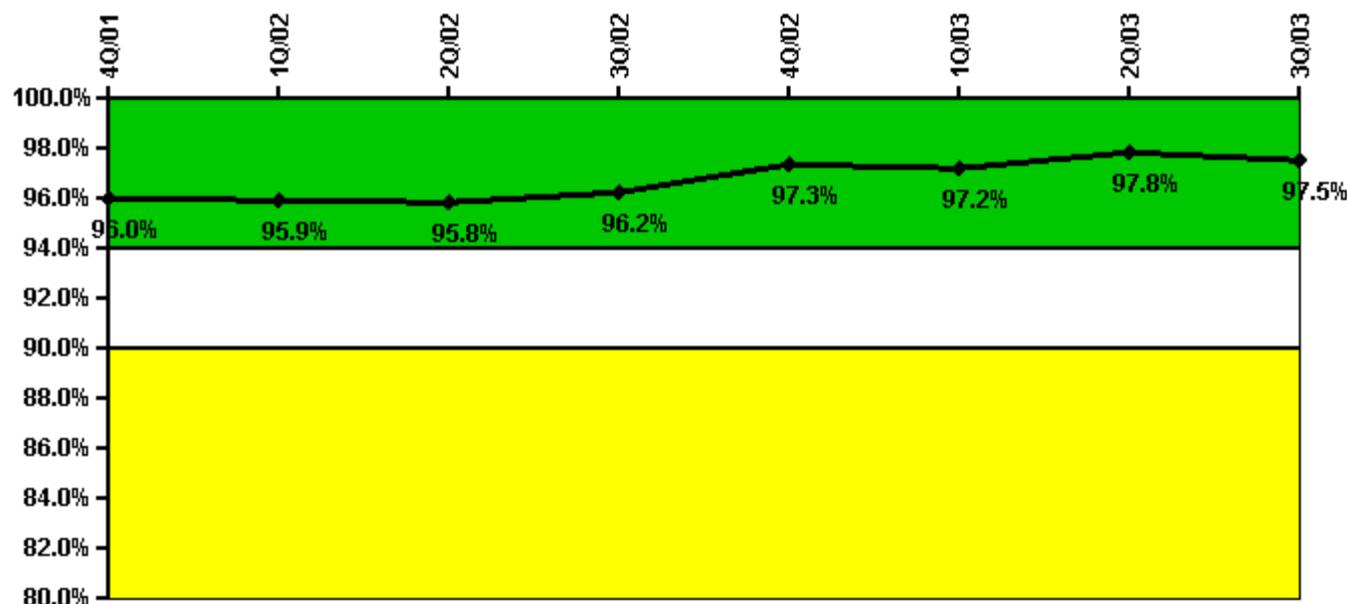
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Participating Key personnel	57.0	58.0	54.0	58.0	58.0	57.0	63.0	68.0
Total Key personnel	59.0	59.0	55.0	58.0	62.0	57.0	64.0	69.0
Indicator value	96.6%	98.3%	98.2%	100.0%	93.5%	100.0%	98.4%	98.6%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

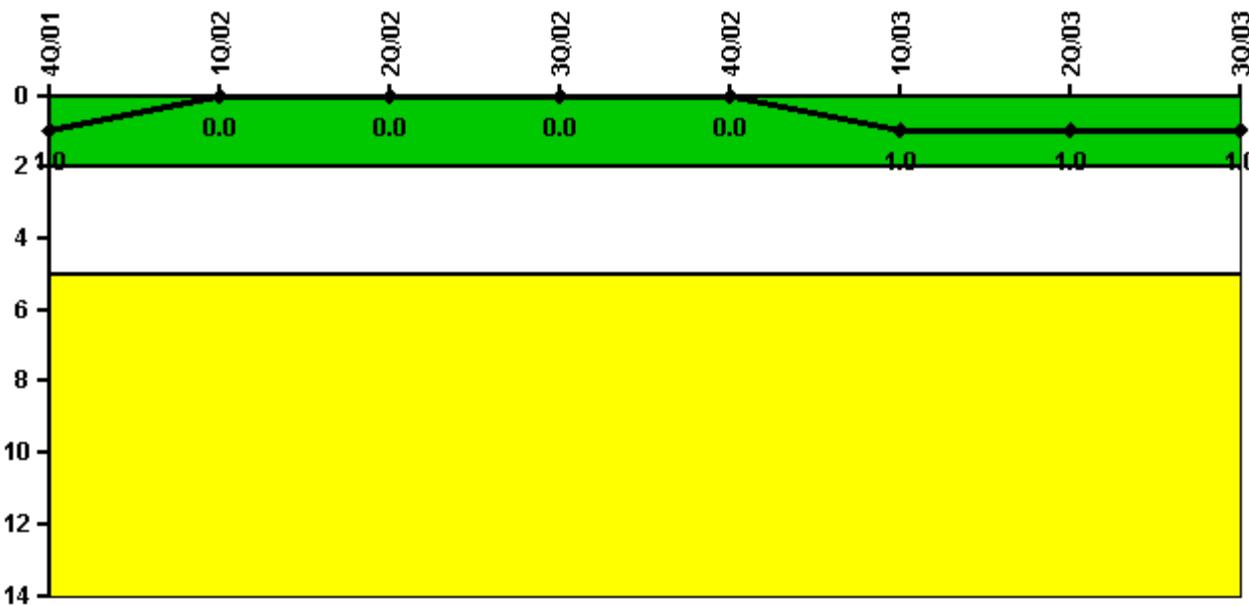
Notes

Alert & Notification System	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Successful siren-tests	1078	918	956	1035	1007	914	1036	963
Total sirens-tests	1140	930	1019	1057	1019	930	1074	996
Indicator value	96.0%	95.9%	95.8%	96.2%	97.3%	97.2%	97.8%	97.5%

Licensee Comments:

2Q/03: The 2Q2003 ANS Reliability Performance Indicator contained data for four quarters instead of only the current quarter. The data is being amended at this time. This does not cause a color change for the ANS Reliability Performance Indicator.

Occupational Exposure Control Effectiveness



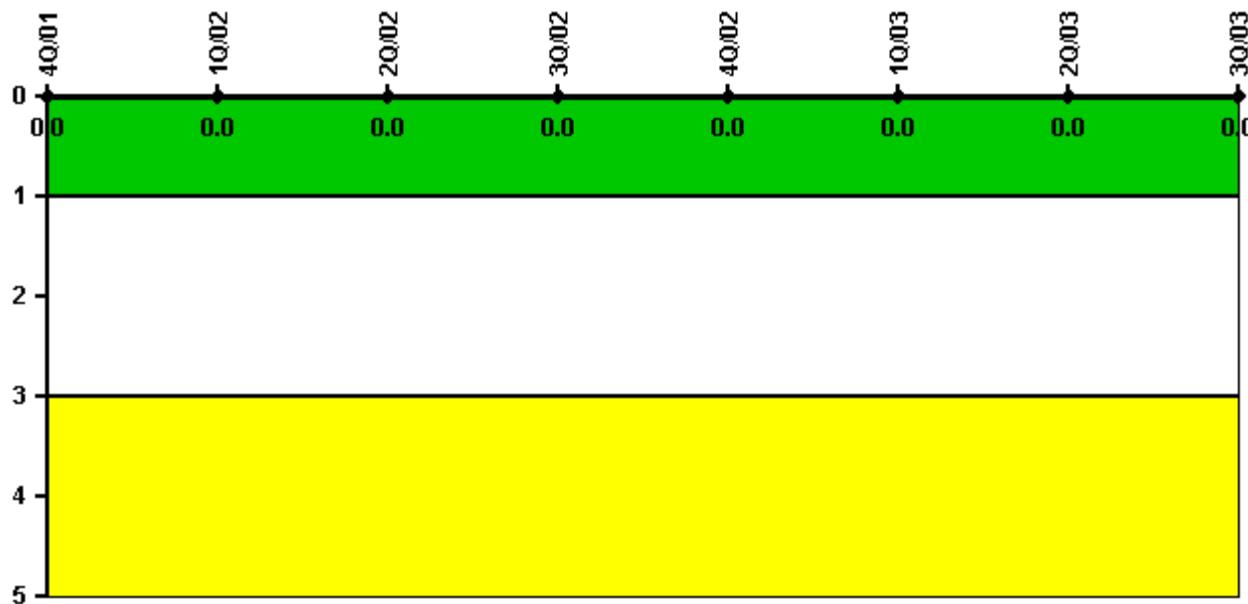
Thresholds: White > 2.0 Yellow > 5.0

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	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:

1Q/03: There was one Technical Specification high radiation area violation that occurred in March 2003. This instance was not reported on the 1Q2003 data collection form and is being amended at this time. The occurrence does not cause a color change for the Occupational Exposure Control Effectiveness Performance Indicator.

RETS/ODCM Radiological Effluent

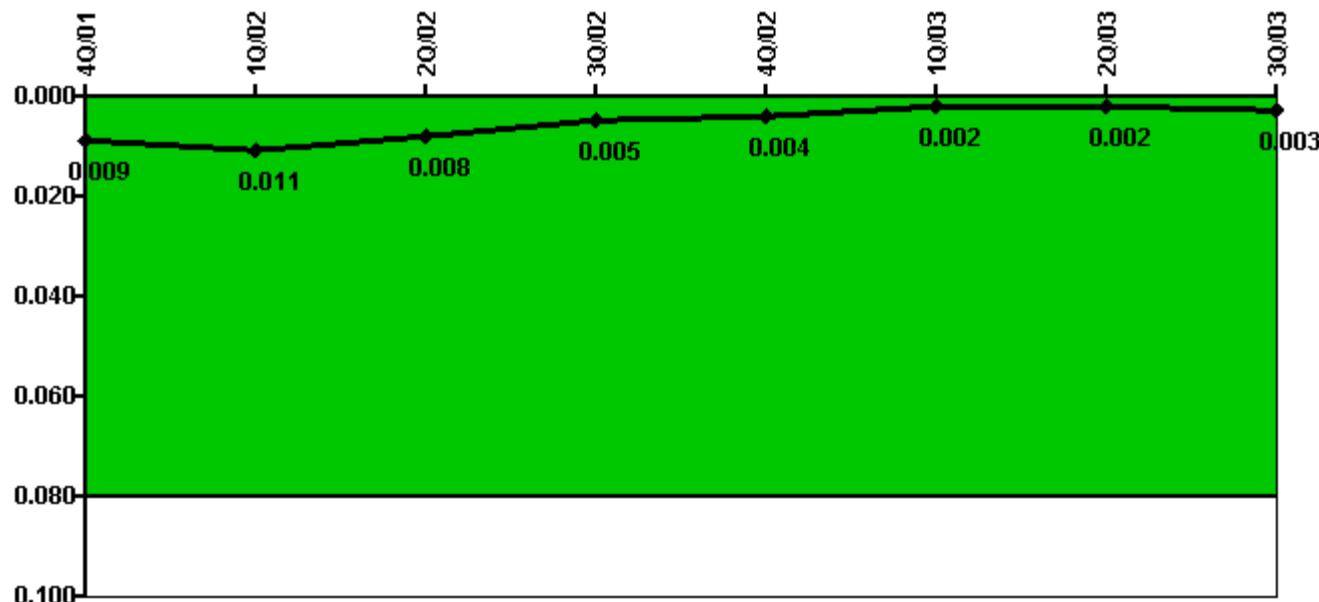
Thresholds: White > 1.0 Yellow > 3.0

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

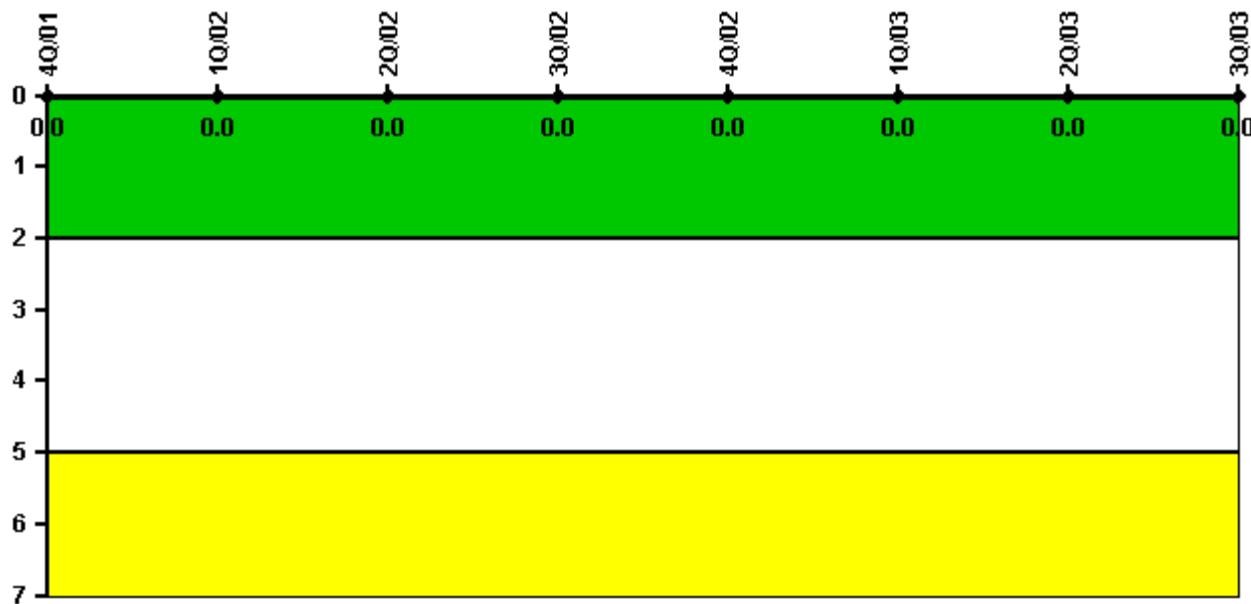


Thresholds: White > 0.080

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	39.90	51.10	1.80	7.80	14.20	24.90	11.70	25.40
CCTV compensatory hours	0	19.5	0	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	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Index Value	0.009	0.011	0.008	0.005	0.004	0.002	0.002	0.003

Licensee Comments: none

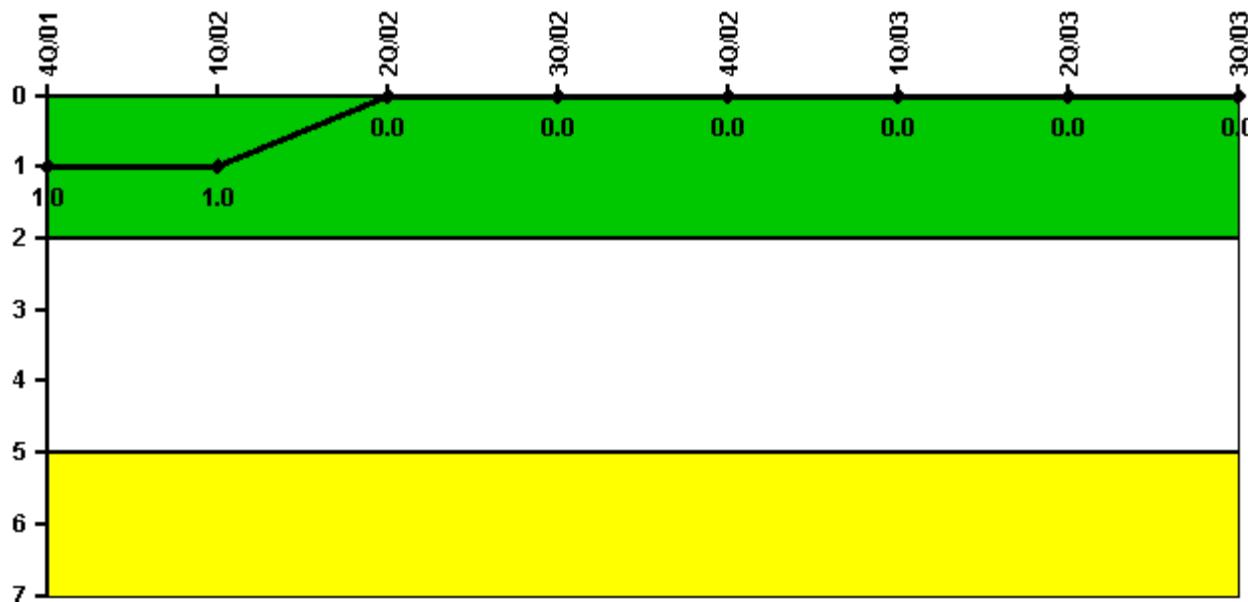
Personnel Screening Program

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	0	0	0	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	1	1	0	0	0	0	0	0

Licensee Comments: none



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

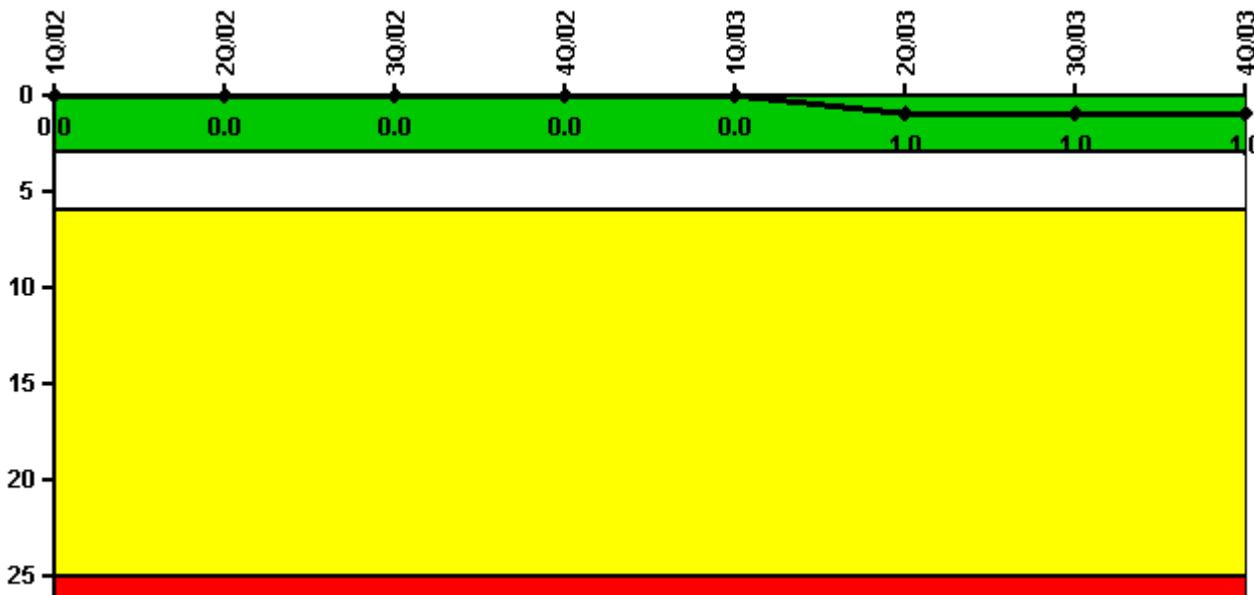
Last Modified: October 22, 2003

Calvert Cliffs 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	0	0	0	0	1.0	0	0
Critical hours	2160.0	2183.0	2208.0	2209.0	1079.4	1670.6	2208.0	2209.0
Indicator value	0	0	0	0	0	1.0	1.0	1.0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

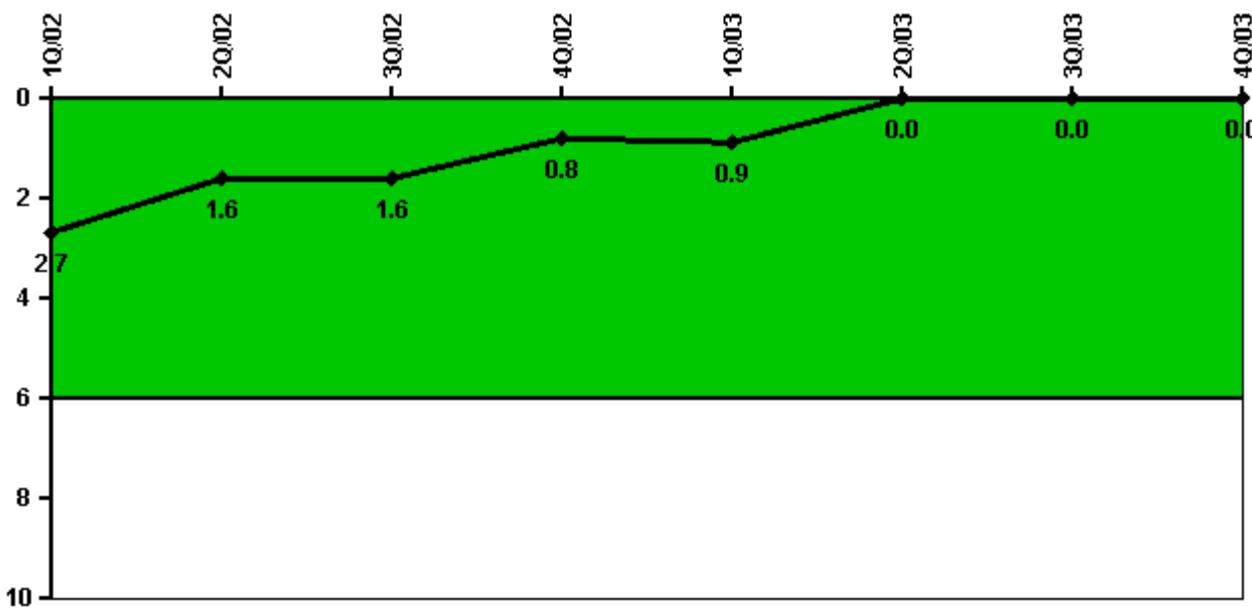
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
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



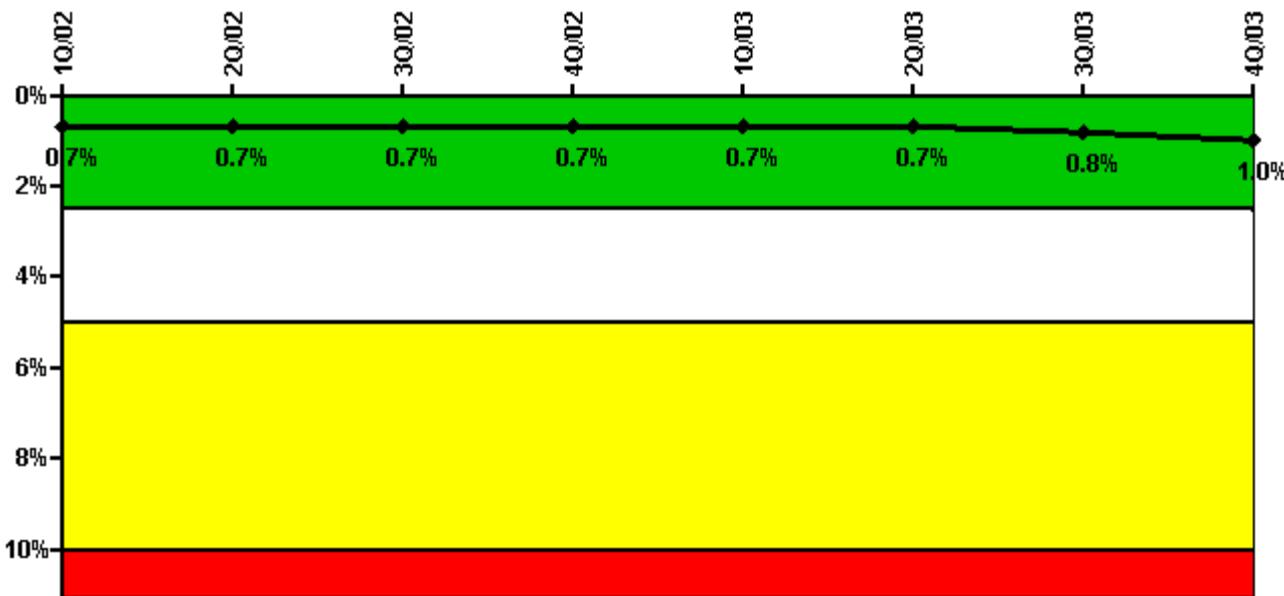
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2160.0	2183.0	2208.0	2209.0	1079.4	1670.6	2208.0	2209.0
Indicator value	2.7	1.6	1.6	0.8	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	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	1.33	13.50	0	0	20.18	0	0	27.13
Unplanned unavailable hours	143.98	0	0	0	0	0	0	117.97
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	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0	2.70	13.27	6.30	34.39	1.05	32.42	8.68
Unplanned unavailable hours	12.25	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	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.8%	1.0%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

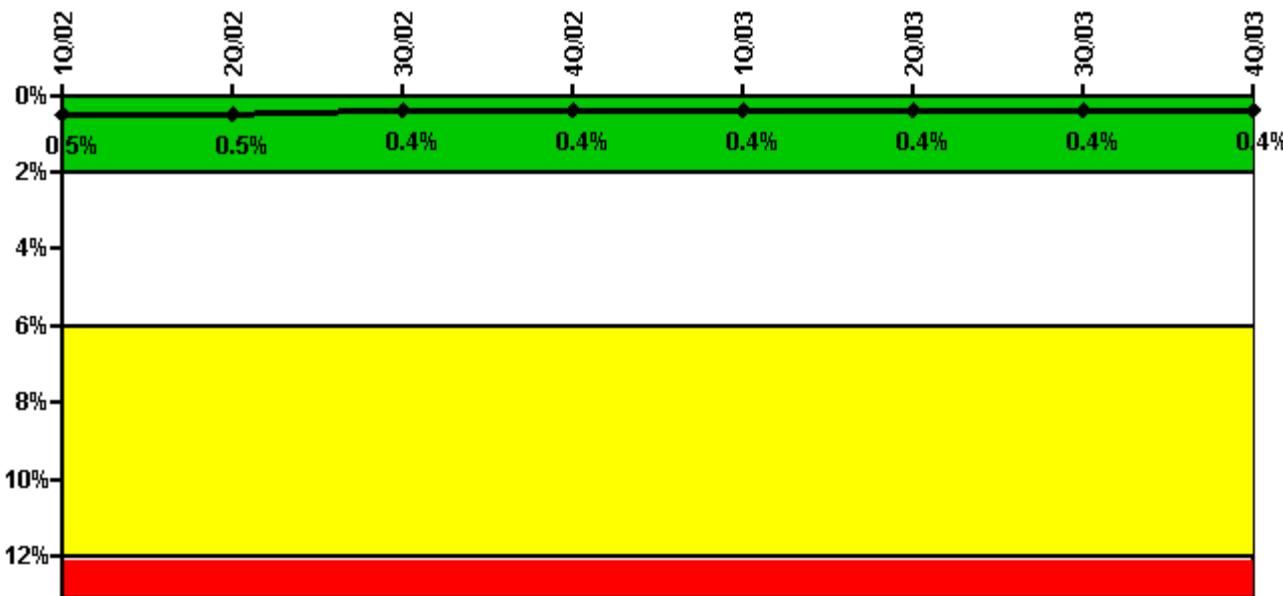


Notes

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	20.17	0.30	2.42	25.99	18.68	2.11	2.58	29.17
Unplanned unavailable hours	0	11.70	0	0.77	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	2160.00	2183.00	2208.00	2209.00	1079.40	1670.60	2208.00	2209.00
Train 2								
Planned unavailable hours	17.45	0.30	34.49	1.23	33.78	3.98	35.00	2.04
Unplanned unavailable hours	0	0	0	0	3.40	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	1079.40	1670.60	2208.00	2209.00
Indicator value	0.6%	0.6%	0.6%	0.6%	0.7%	0.7%	0.7%	0.7%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



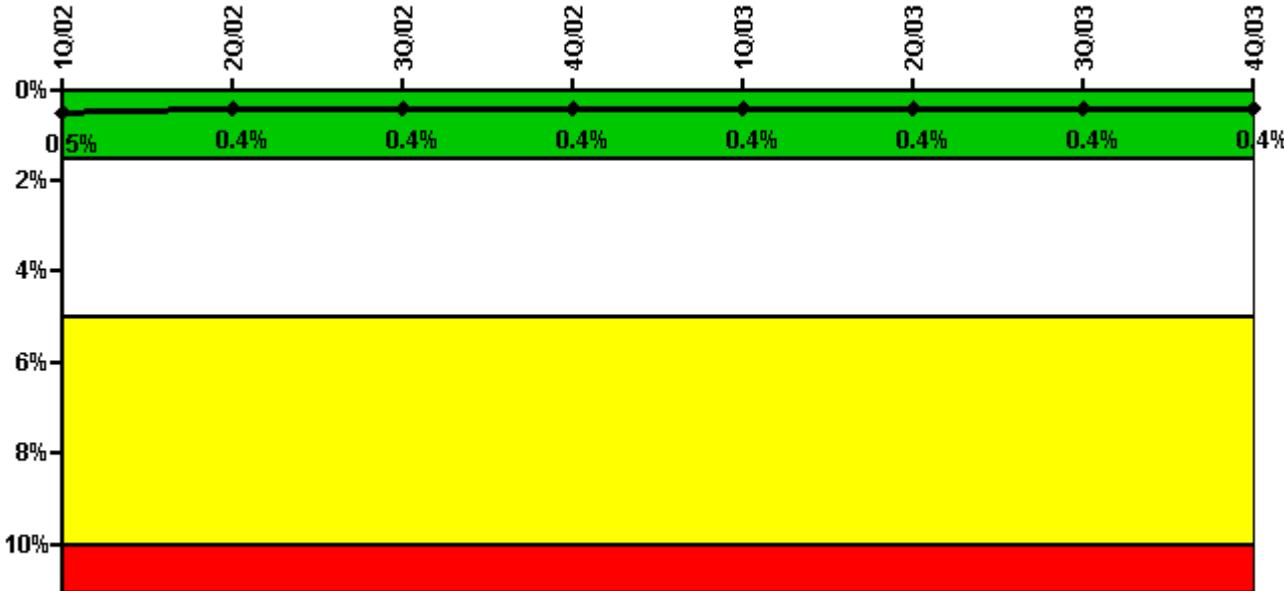
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	22.42	2.20	0	0.40	0	0.92	0	14.50
Unplanned unavailable hours	0	0	0	0.37	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	1079.40	1670.60	2208.00	2209.00
Train 2								
Planned unavailable hours	22.42	2.70	0.47	1.07	0	0.42	0.97	14.82
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	2160.00	2183.00	2208.00	2209.00	1079.40	1670.60	2208.00	2209.00
Train 3								
Planned unavailable hours	0	4.60	0	0	0.52	0	0	0
Unplanned unavailable hours	0	0	23.38	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	1079.40	1670.60	2208.00	2209.00
Indicator value	0.5%	0.5%	0.4%	0.4%	0.4%	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%

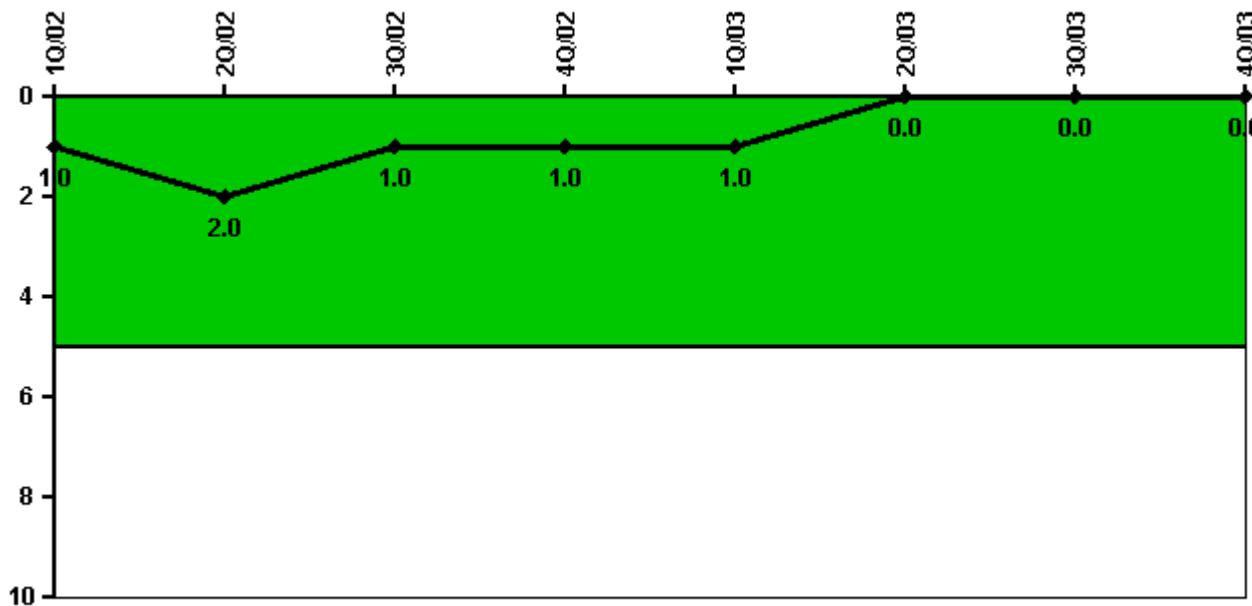
Notes

Safety System Unavailability, Residual Heat Removal System	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	0	0	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	0	0	0	0	304.50	300.00	0	0
Train 2								
Planned unavailable hours	0	0	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	0	0	0	0	304.50	300.00	0	0
Train 3								
Planned unavailable hours	21.59	18.10	2.49	3.66	18.24	6.55	3.43	28.88
Unplanned unavailable hours	0	11.70	1.92	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	1090.30	1741.90	2208.00	2209.00
Train 4								
Planned unavailable hours	18.47	6.40	42.50	3.06	33.74	19.05	34.77	1.25

Unplanned unavailable hours	0	0	3.15	0	3.40	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	1090.30	1741.90	2208.00	2209.00
Indicator value	0.5%	0.4%						

Licensee Comments: none

Safety System Functional Failures (PWR)



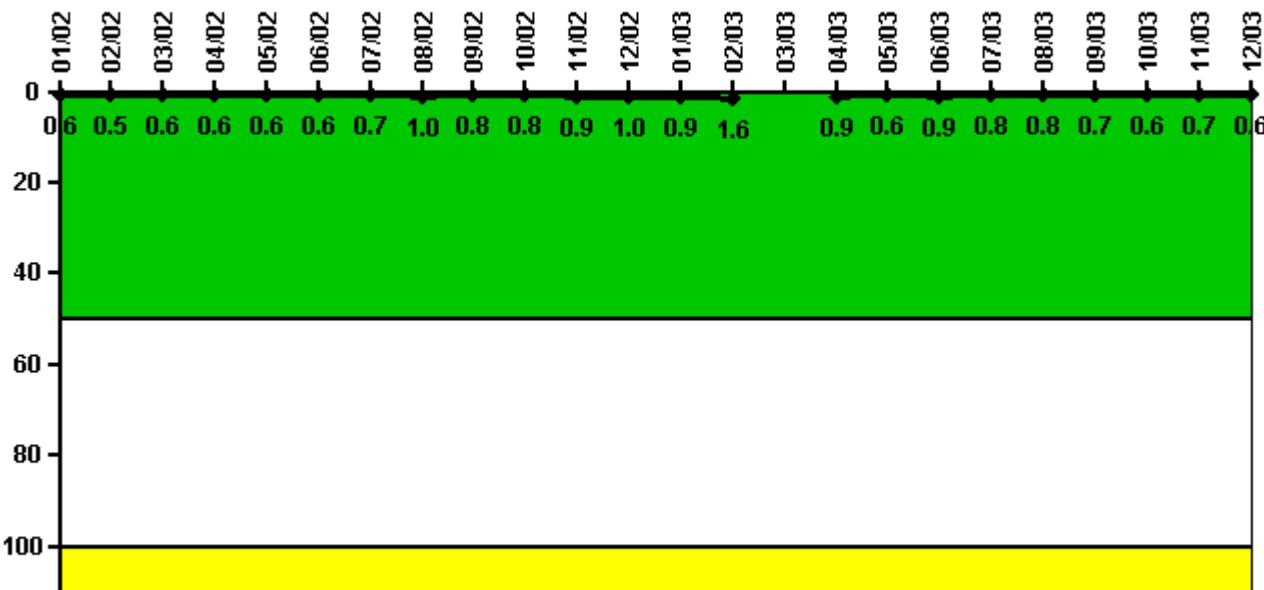
Thresholds: White > 5.0

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	1	0	0	0	0	0	0
Indicator value	1	2	1	1	1	0	0	0

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

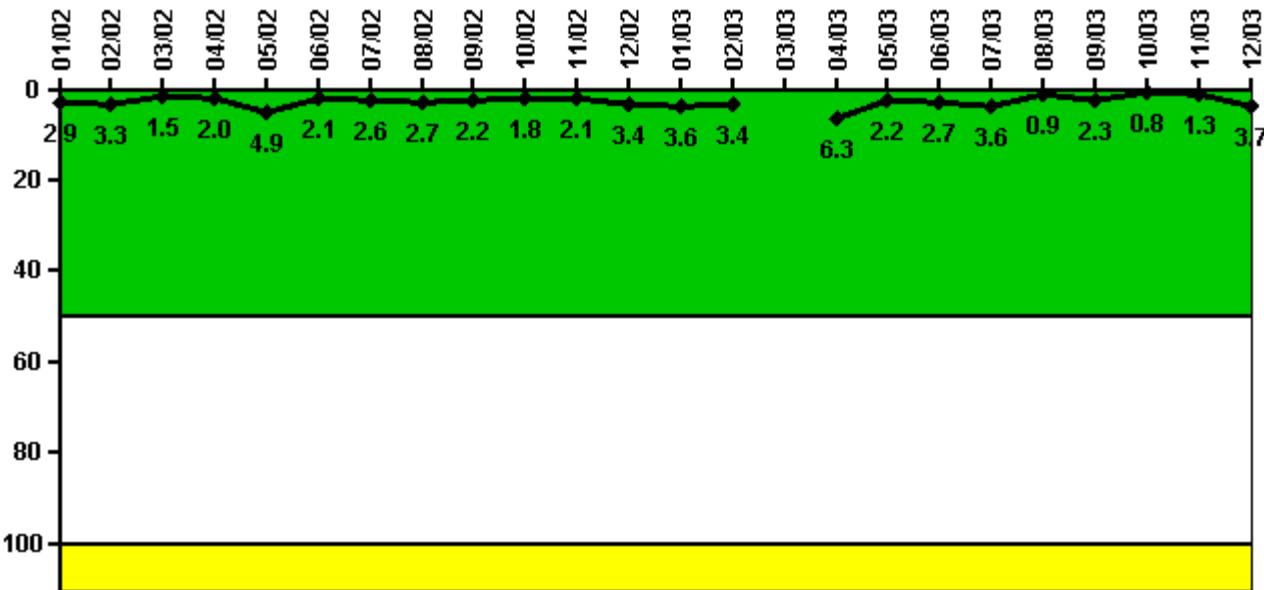
Notes

Reactor Coolant System Activity	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	0.005730	0.005470	0.005600	0.005600	0.006010	0.006200	0.006550	0.009630	0.007900	0.007980	0.008700	0.009630
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	0.6	0.5	0.6	0.6	0.6	0.6	0.7	1.0	0.8	0.8	0.9	1.0

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	0.008560	0.015900	N/A	0.009480	0.005990	0.008670	0.007940	0.007550	0.006680	0.006480	0.006510	0.006060
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	0.9	1.6	N/A	0.9	0.6	0.9	0.8	0.8	0.7	0.6	0.7	0.6

Licensee Comments: none

Reactor Coolant System Leakage



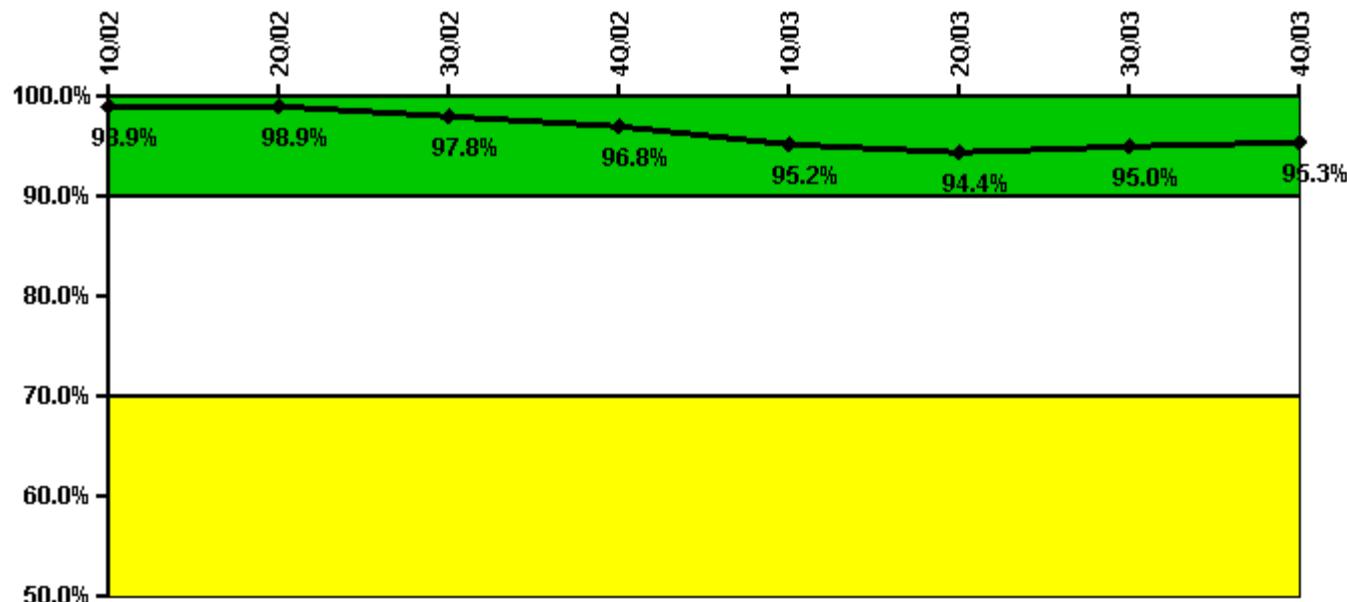
Thresholds: White > 50.0 Yellow > 100.0

Notes

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	0.289	0.331	0.145	0.200	0.486	0.211	0.262	0.273	0.220	0.177	0.210	0.338
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	2.9	3.3	1.5	2.0	4.9	2.1	2.6	2.7	2.2	1.8	2.1	3.4

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	0.360	0.340	N/A	0.630	0.220	0.270	0.357	0.094	0.228	0.077	0.129	0.367
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	3.6	3.4	N/A	6.3	2.2	2.7	3.6	0.9	2.3	0.8	1.3	3.7

Licensee Comments: none

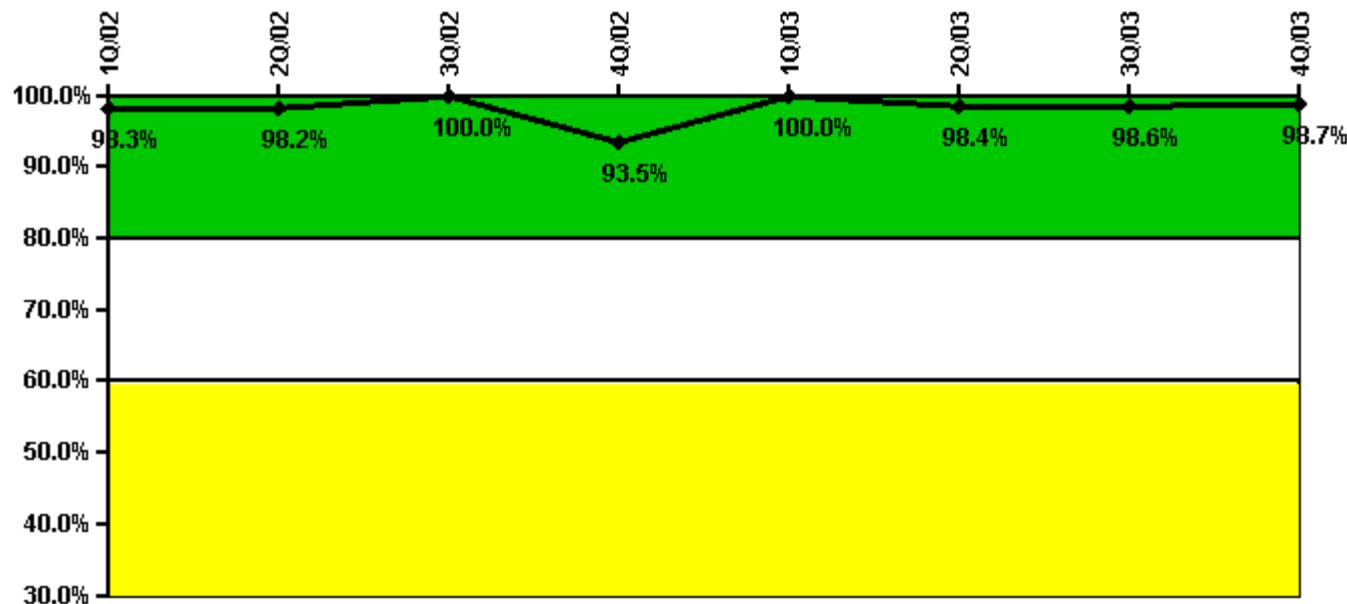
Drill/Exercise Performance

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	14.0	8.0	34.0	39.0	9.0	14.0	29.0	56.0
Total opportunities	14.0	8.0	37.0	41.0	12.0	15.0	29.0	57.0
Indicator value	98.9%	98.9%	97.8%	96.8%	95.2%	94.4%	95.0%	95.3%

Licensee Comments: none

ERO Drill Participation

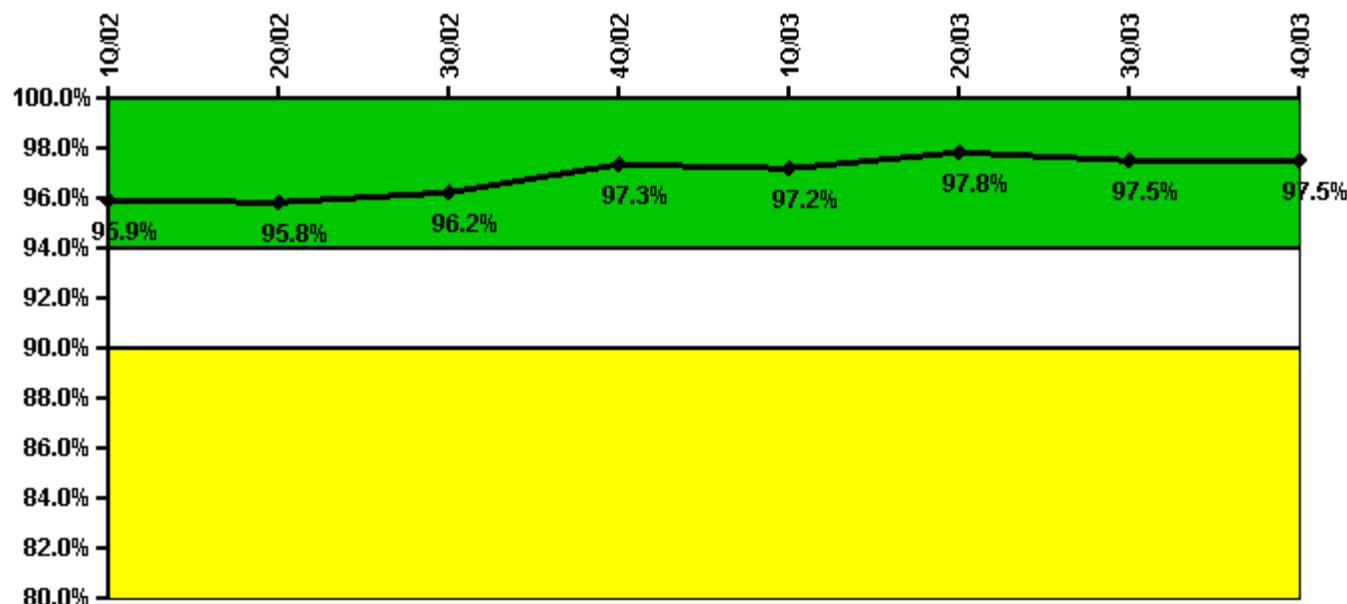
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Participating Key personnel	58.0	54.0	58.0	58.0	57.0	63.0	68.0	77.0
Total Key personnel	59.0	55.0	58.0	62.0	57.0	64.0	69.0	78.0
Indicator value	98.3%	98.2%	100.0%	93.5%	100.0%	98.4%	98.6%	98.7%

Licensee Comments: none

Alert & Notification System

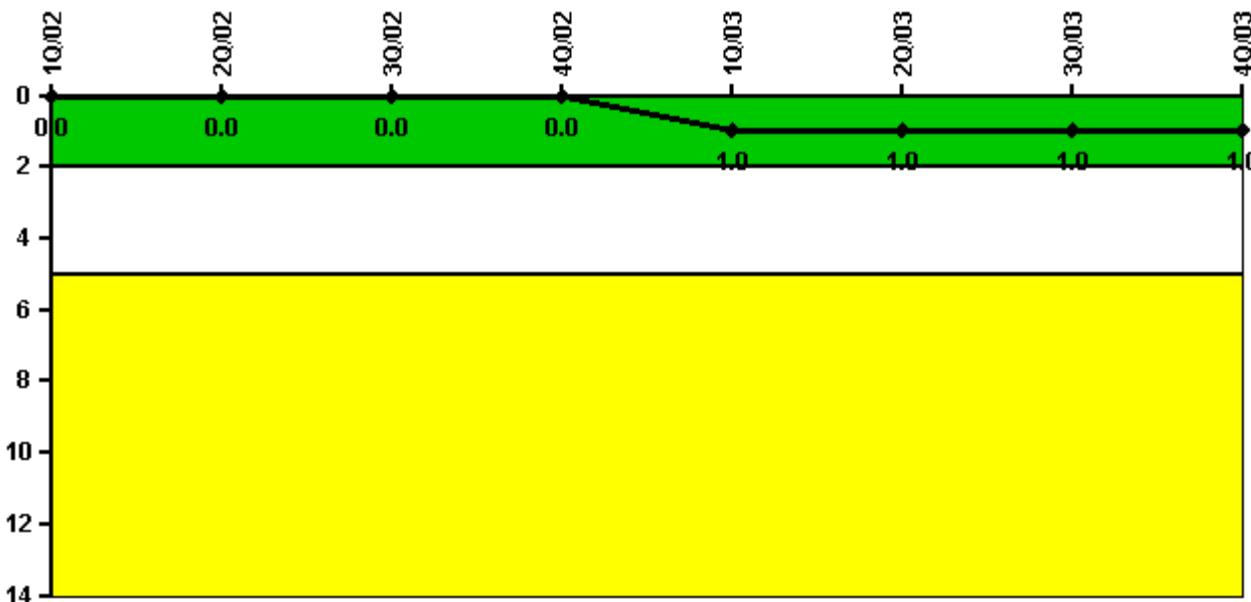


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Successful siren-tests	918	956	1035	1007	914	1036	963	1007
Total sirens-tests	930	1019	1057	1019	930	1074	996	1019
Indicator value	95.9%	95.8%	96.2%	97.3%	97.2%	97.8%	97.5%	97.5%

Licensee Comments: none

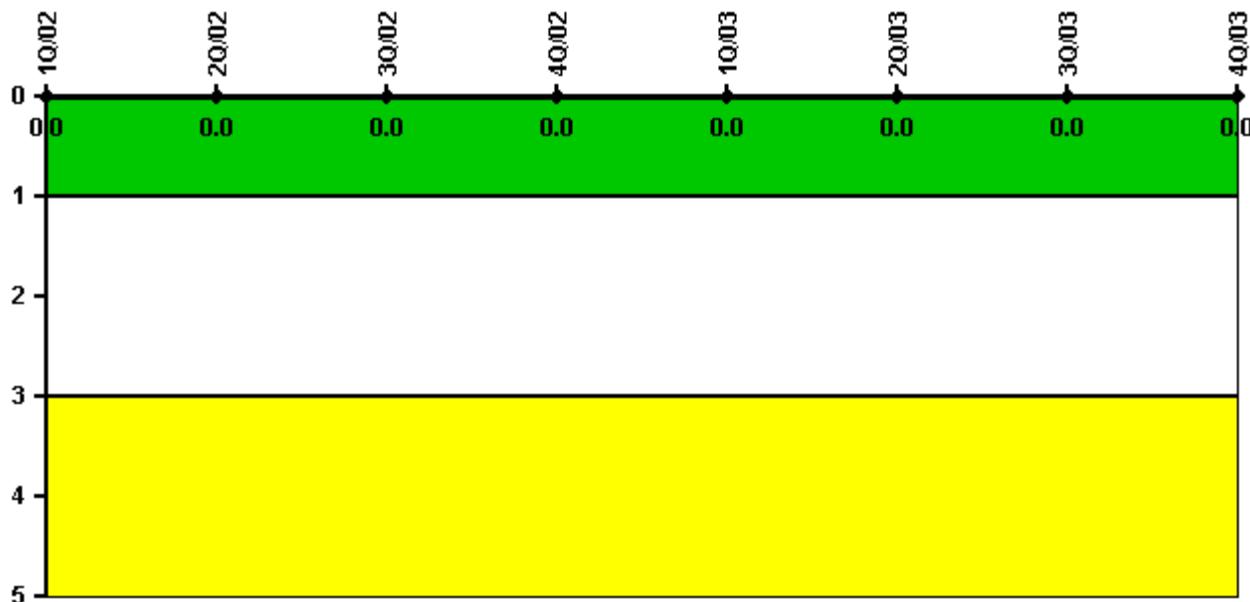
Occupational Exposure Control Effectiveness

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	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

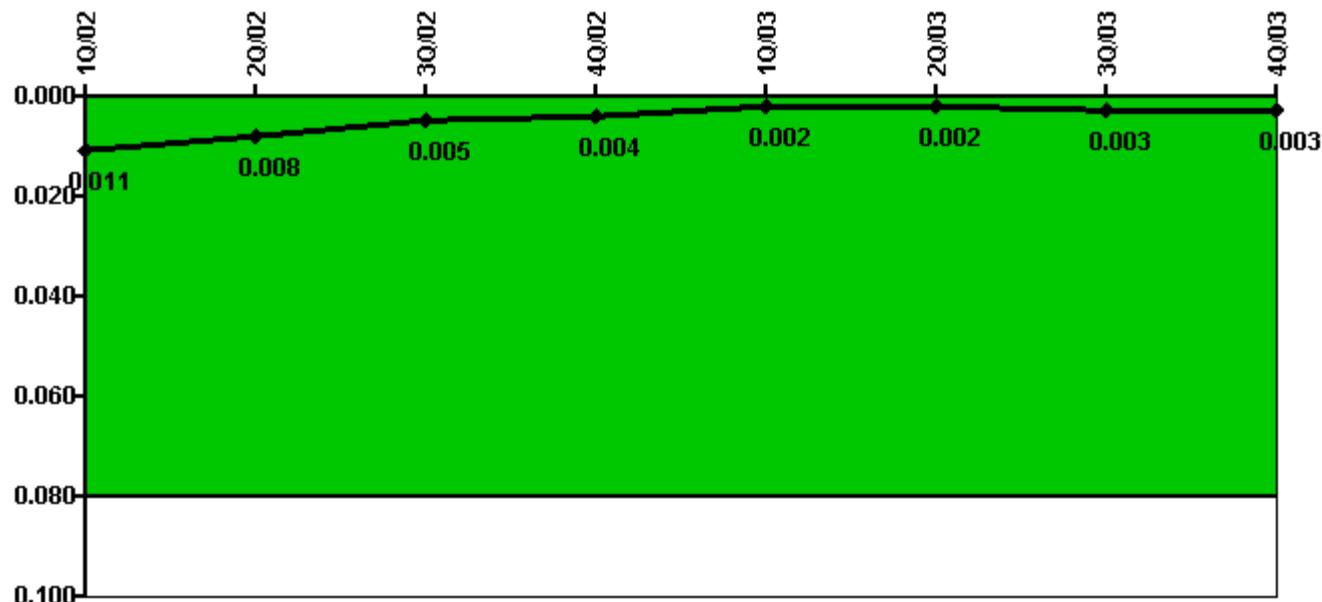
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

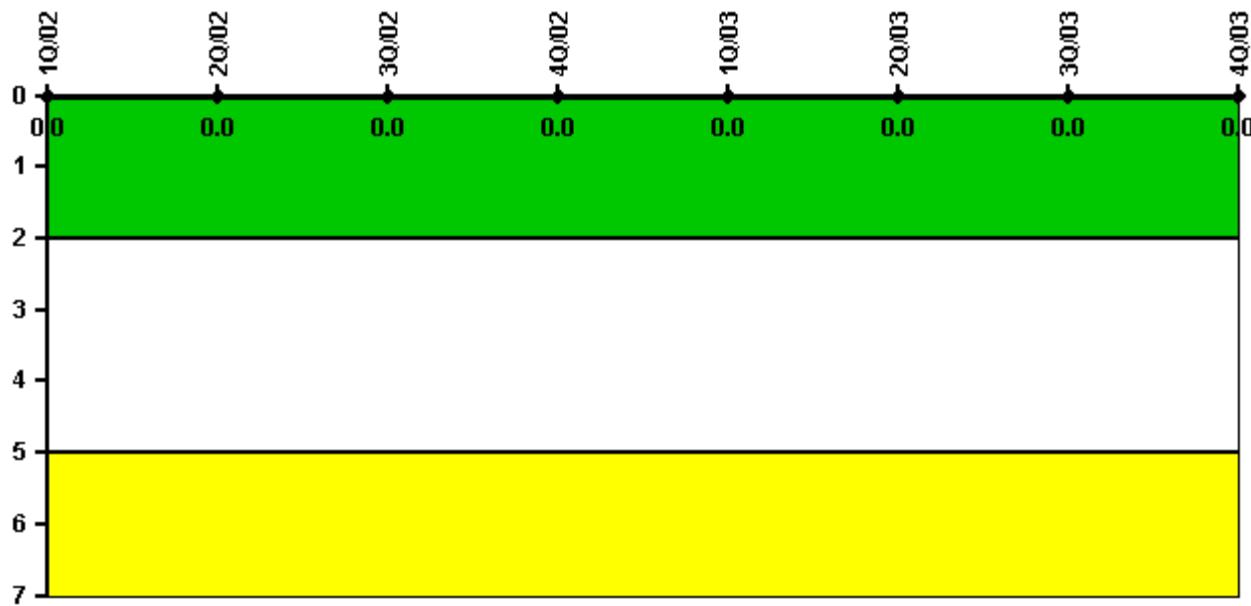


Thresholds: White > 0.080

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	51.10	1.80	7.80	14.20	24.90	11.70	25.40	20.00
CCTV compensatory hours	19.5	0	0	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	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Index Value	0.011	0.008	0.005	0.004	0.002	0.002	0.003	0.003

Licensee Comments: none

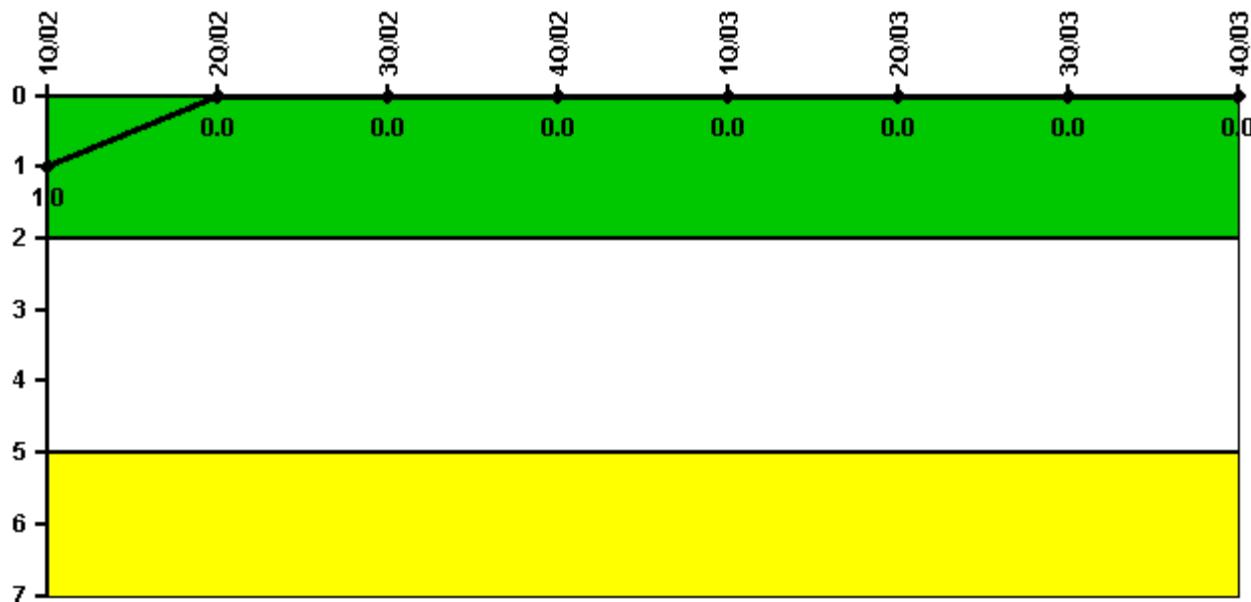
Personnel Screening Program

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	0	0	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	1	0	0	0	0	0	0	0

Licensee Comments: none

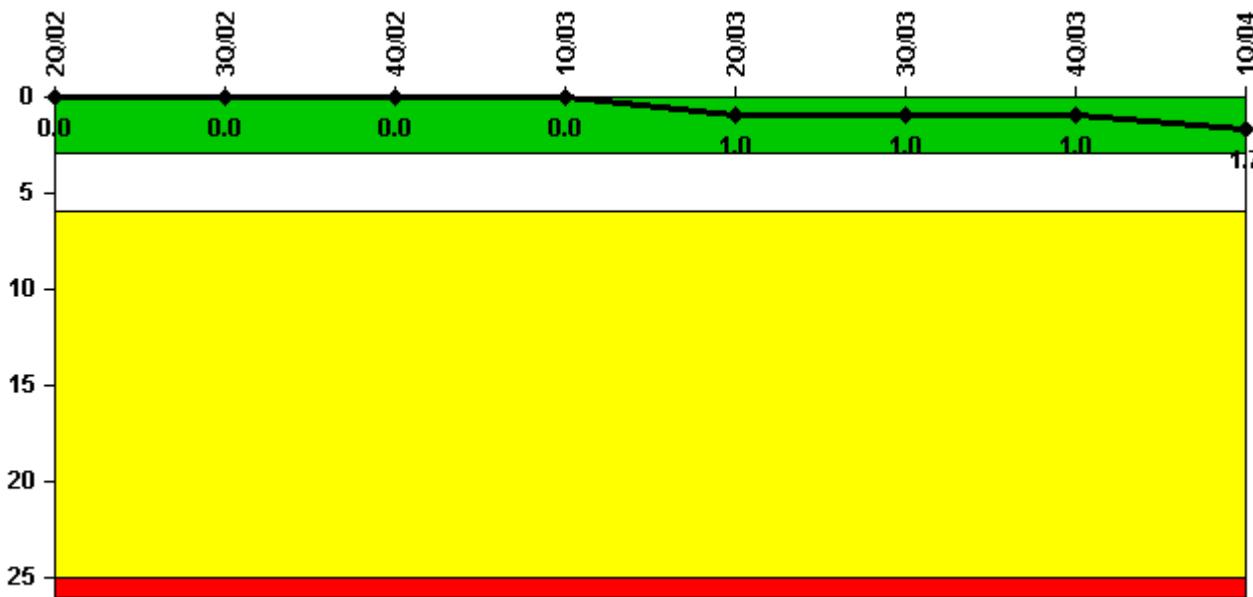


[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

Last Modified: January 23, 2004

Calvert Cliffs 2**1Q/2004 Performance Indicators**

Licensee's General Comments: none

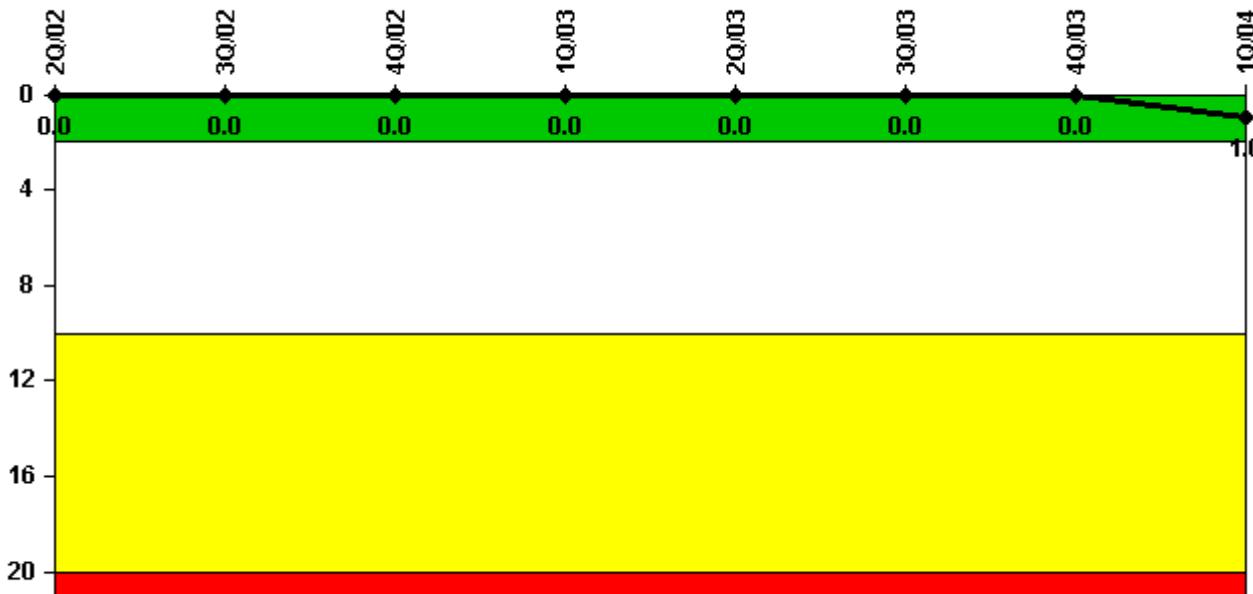
Unplanned Scrams per 7000 Critical Hrs

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	0	0	0	0	1.0	0	0	1.0
Critical hours	2183.0	2208.0	2209.0	1079.4	1670.6	2208.0	2209.0	2134.4
Indicator value	0	0	0	0	1.0	1.0	1.0	1.7

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

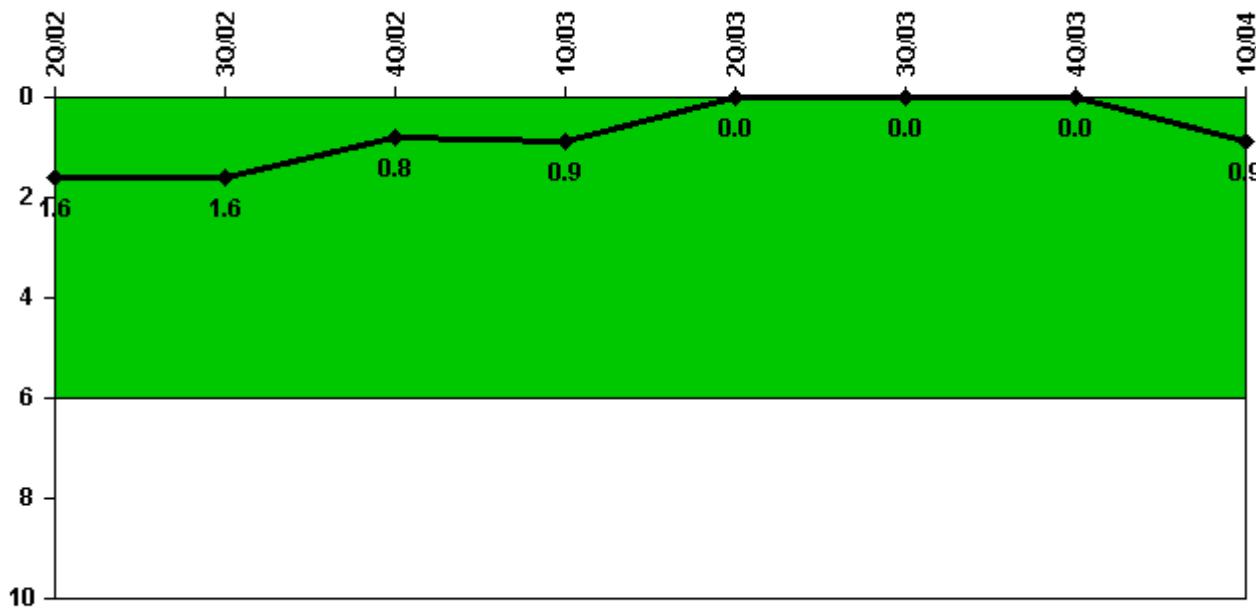
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

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	0	0	0	0	0	0	0	1.0
Indicator value	0	0	0	0	0	0	0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



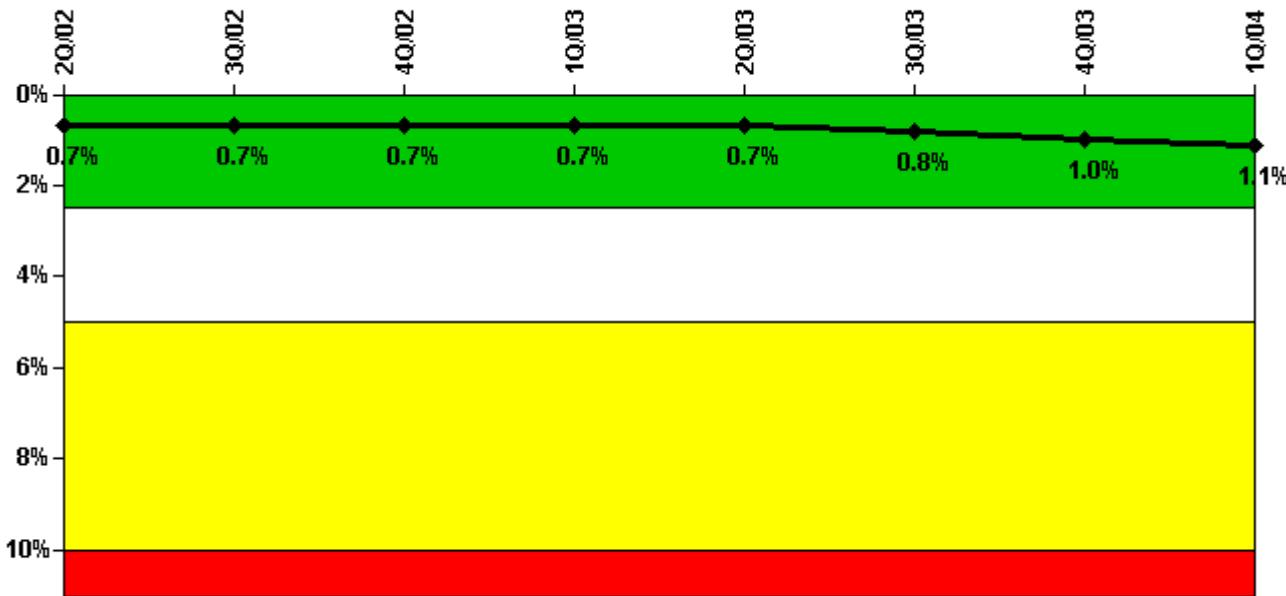
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned power changes	1.0	0	0	0	0	0	0	1.0
Critical hours	2183.0	2208.0	2209.0	1079.4	1670.6	2208.0	2209.0	2134.4
Indicator value	1.6	1.6	0.8	0.9	0	0	0	0.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

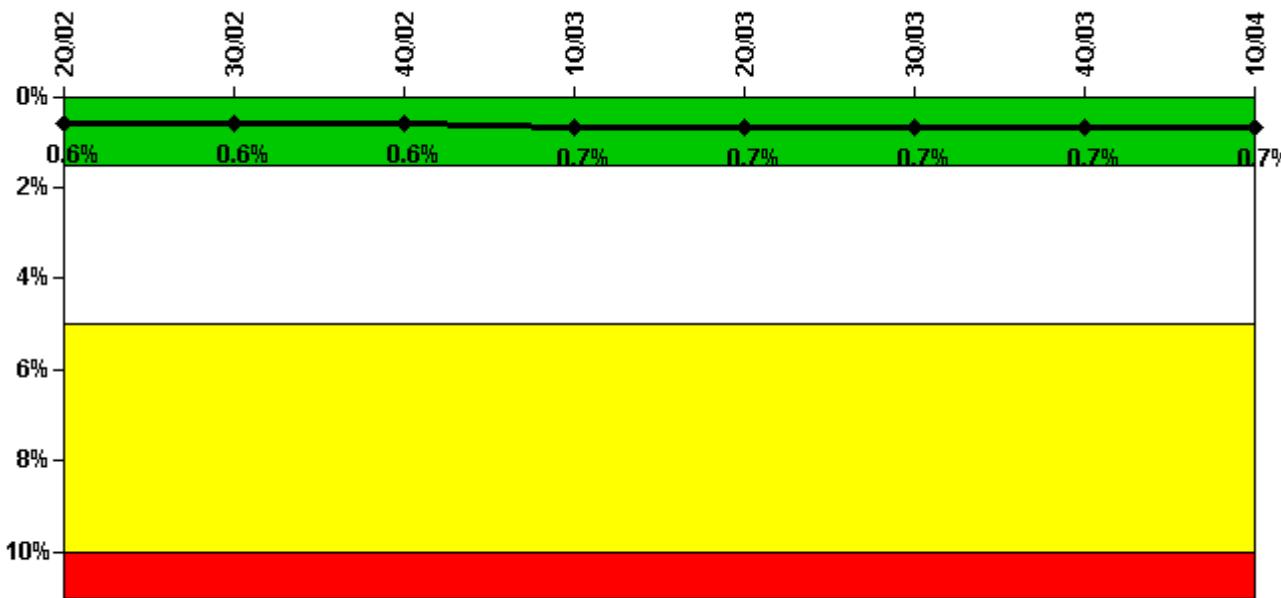
Notes

Safety System Unavailability, Emergency AC Power	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	13.50	0	0	20.18	0	0	27.13	22.65
Unplanned unavailable hours	0	0	0	0	0	0	117.97	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	2183.00	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	2.70	13.27	6.30	34.39	1.05	32.42	8.68	27.27
Unplanned unavailable hours	0	0	0	0	0	0	0	20.00
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	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value	0.7%	0.7%	0.7%	0.7%	0.7%	0.8%	1.0%	1.1%

Licensee Comments:

1Q/04: 03/08/2004: The train-2 Diesel Generator failed to load after starting. The load failure was due to an output breaker relay failing resulting in 337.06 T/2 fault exposure hours.

Safety System Unavailability, High Pressure Injection System (HPSI)



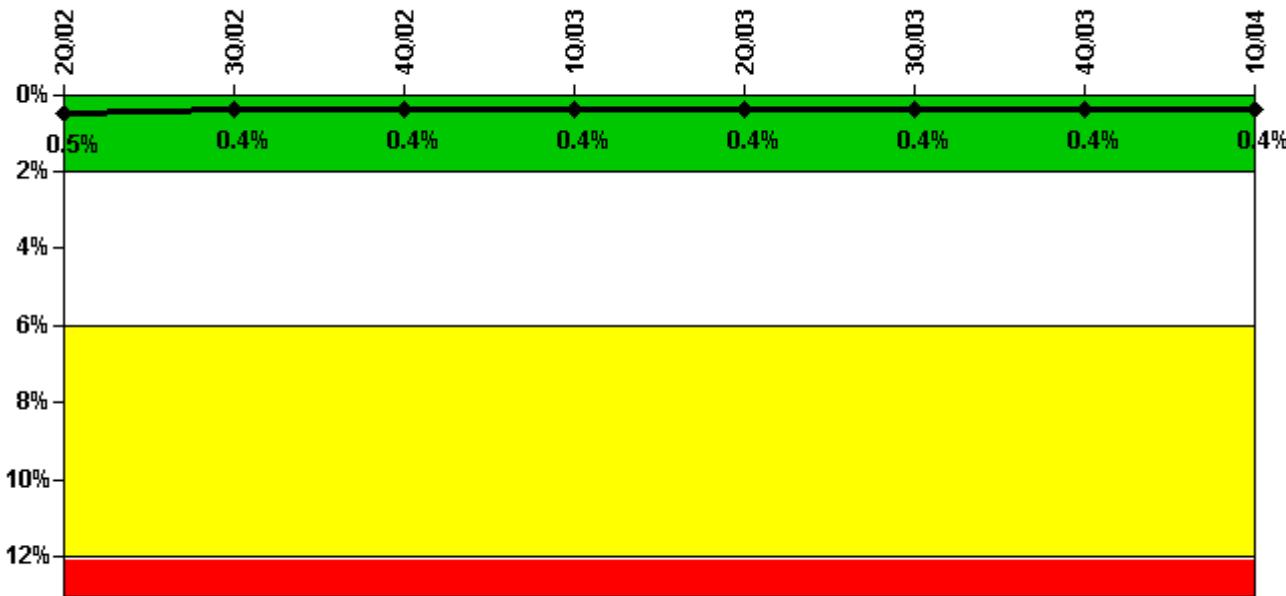
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	0.30	2.42	25.99	18.68	2.11	2.58	29.17	25.15
Unplanned unavailable hours	11.70	0	0.77	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	1079.40	1670.60	2208.00	2209.00	2134.40
Train 2								
Planned unavailable hours	0.30	34.49	1.23	33.78	3.98	35.00	2.04	31.72
Unplanned unavailable hours	0	0	0	3.40	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	1079.40	1670.60	2208.00	2209.00	2134.40
Indicator value	0.6%	0.6%	0.6%	0.7%	0.7%	0.7%	0.7%	0.7%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



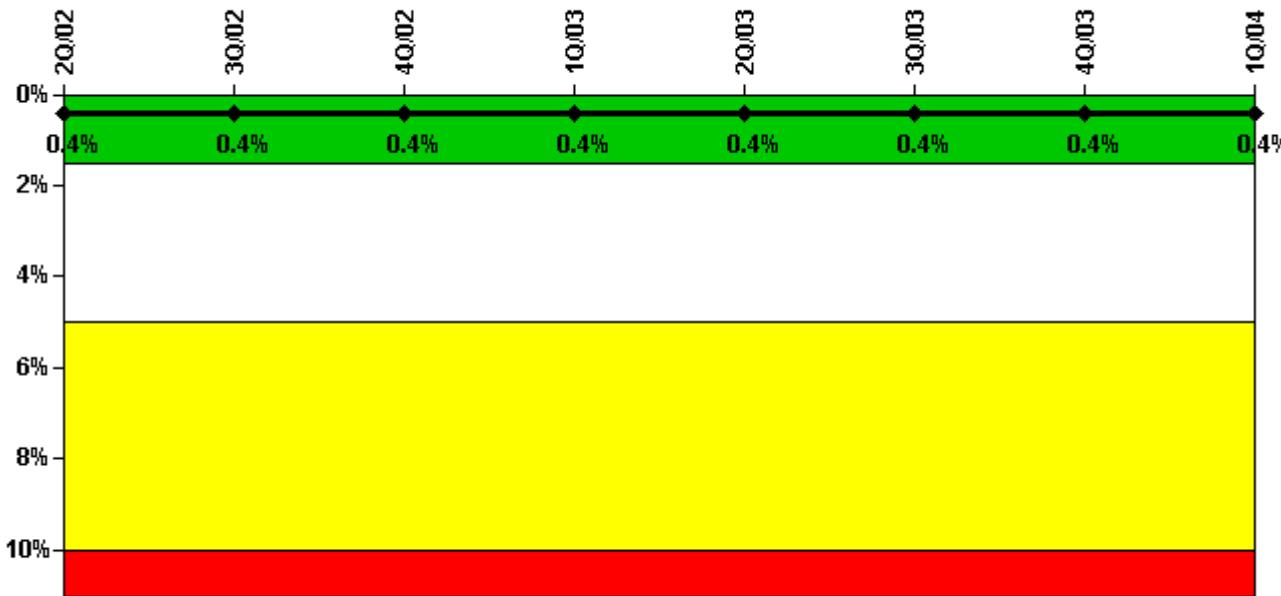
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	2.20	0	0.40	0	0.92	0	14.50	0.67
Unplanned unavailable hours	0	0	0.37	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	1079.40	1670.60	2208.00	2209.00	2134.40
Train 2								
Planned unavailable hours	2.70	0.47	1.07	0	0.42	0.97	14.82	0.45
Unplanned unavailable hours	0	0	0.90	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	1079.40	1670.60	2208.00	2209.00	2134.40
Train 3								
Planned unavailable hours	4.60	0	0	0.52	0	0	0	4.57
Unplanned unavailable hours	0	23.38	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	1079.40	1670.60	2208.00	2209.00	2134.40
Indicator value	0.5%	0.4%						

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



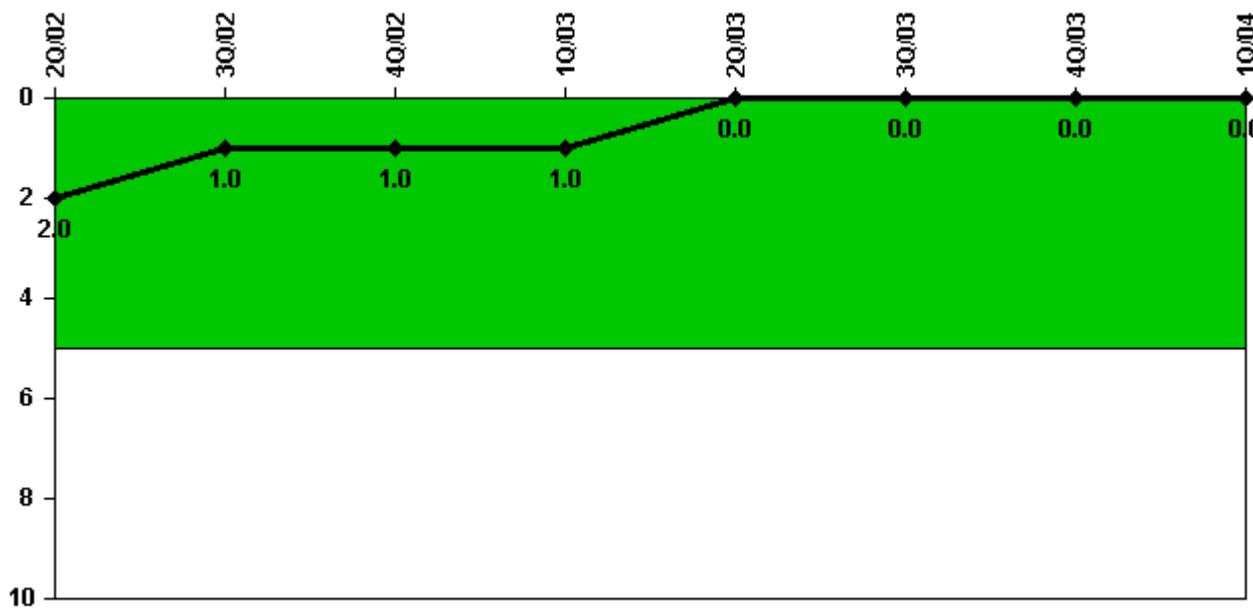
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0	0	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	0	0	0	304.50	300.00	0	0	0
Train 2								
Planned unavailable hours	0	0	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	0	0	0	304.50	300.00	0	0	0
Train 3								
Planned unavailable hours	18.10	2.49	3.66	18.24	6.55	3.43	28.88	28.26
Unplanned unavailable hours	11.70	1.92	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	1090.30	1741.90	2208.00	2209.00	2184.00
Train 4								
Planned unavailable hours	6.40	42.50	3.06	33.74	19.05	34.77	1.25	28.35
Unplanned unavailable hours	0	3.15	0	3.40	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	1090.30	1741.90	2208.00	2209.00	2184.00
Indicator value	0.4%							

Licensee Comments: none

Safety System Functional Failures (PWR)



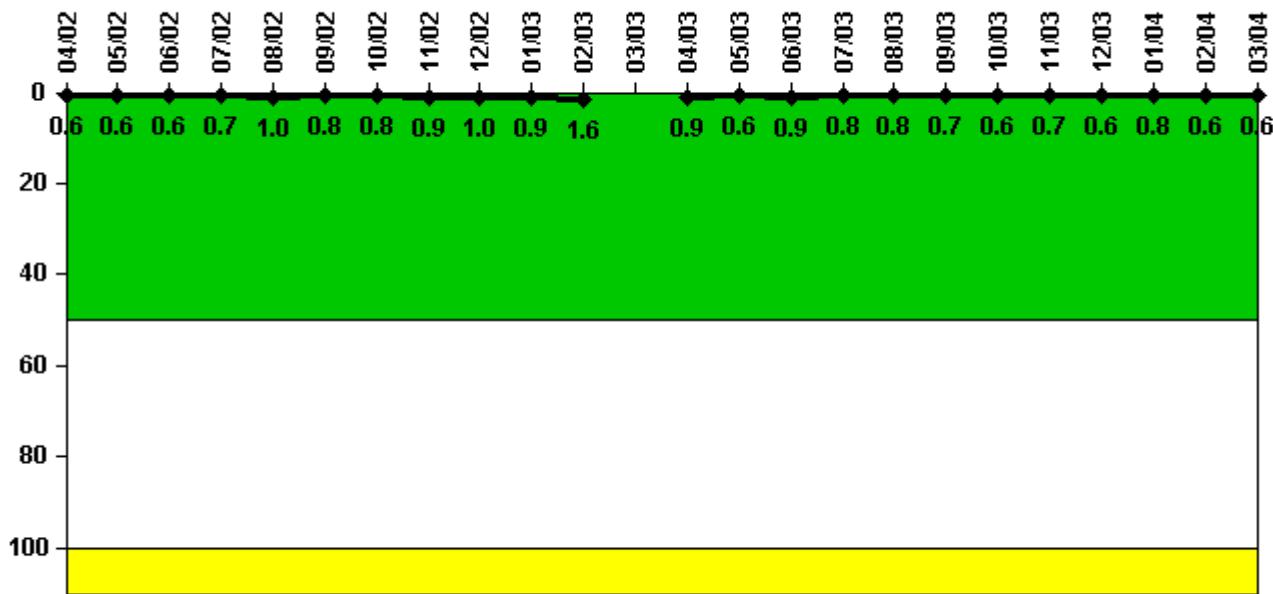
Thresholds: White > 5.0

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	1	0	0	0	0	0	0	0
Indicator value	2	1	1	1	0	0	0	0

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

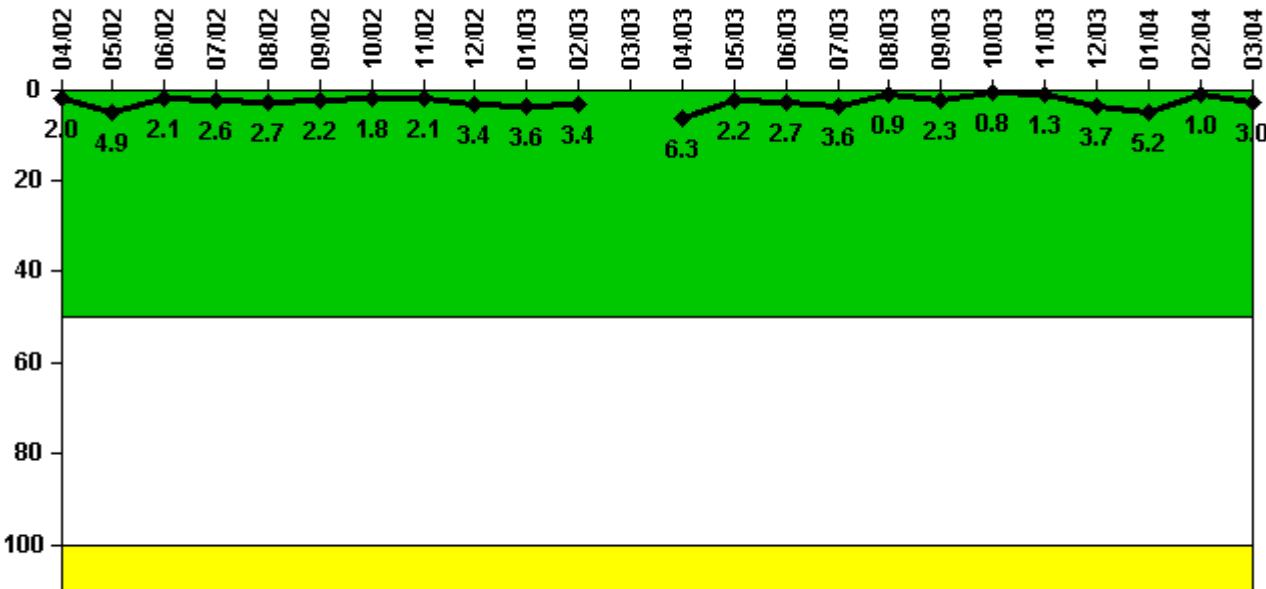
Notes

Reactor Coolant System Activity	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	0.005600	0.006010	0.006200	0.006550	0.009630	0.007900	0.007980	0.008700	0.009630	0.008560	0.015900	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	0.6	0.6	0.6	0.7	1.0	0.8	0.8	0.9	1.0	0.9	1.6	N/A

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	0.009480	0.005990	0.008670	0.007940	0.007550	0.006680	0.006480	0.006510	0.006060	0.008230	0.006480	0.006130
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	0.9	0.6	0.9	0.8	0.8	0.7	0.6	0.7	0.6	0.8	0.6	0.6

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

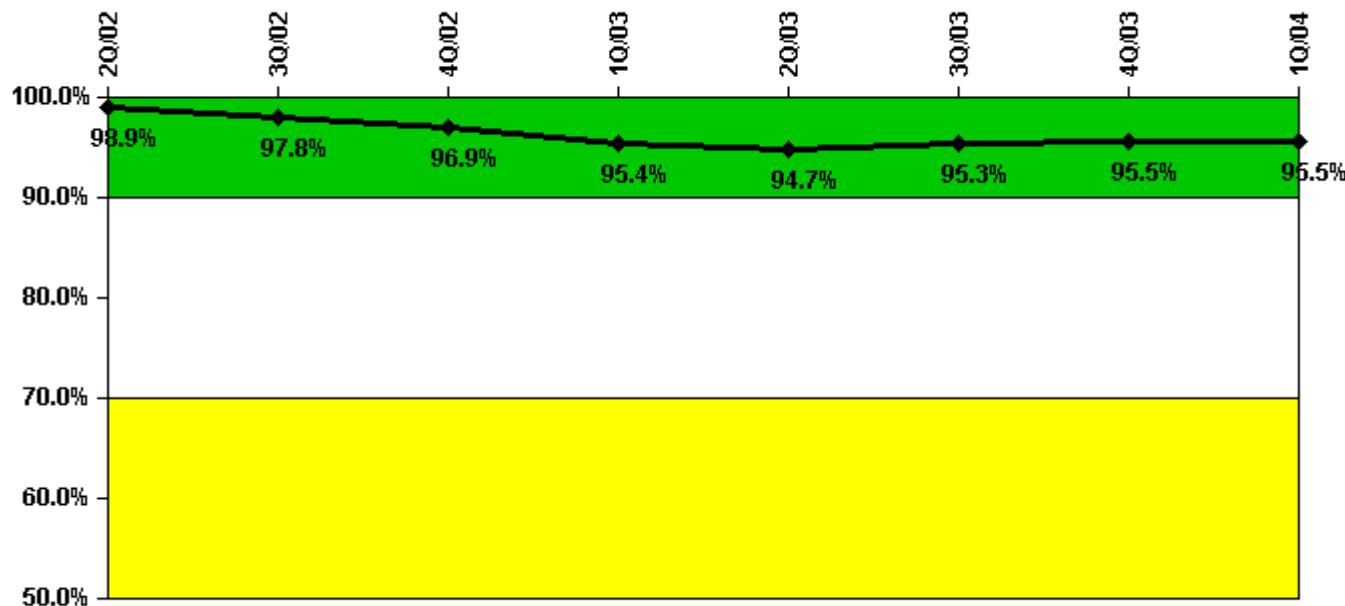
Notes

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	0.200	0.486	0.211	0.262	0.273	0.220	0.177	0.210	0.338	0.360	0.340	N/A
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	2.0	4.9	2.1	2.6	2.7	2.2	1.8	2.1	3.4	3.6	3.4	N/A

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	0.630	0.220	0.270	0.357	0.094	0.228	0.077	0.129	0.367	0.520	0.100	0.300
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	6.3	2.2	2.7	3.6	0.9	2.3	0.8	1.3	3.7	5.2	1.0	3.0

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	8.0	35.0	45.0	9.0	14.0	29.0	56.0	18.0
Total opportunities	8.0	38.0	47.0	12.0	15.0	29.0	57.0	18.0
Indicator value	98.9%	97.8%	96.9%	95.4%	94.7%	95.3%	95.5%	95.5%

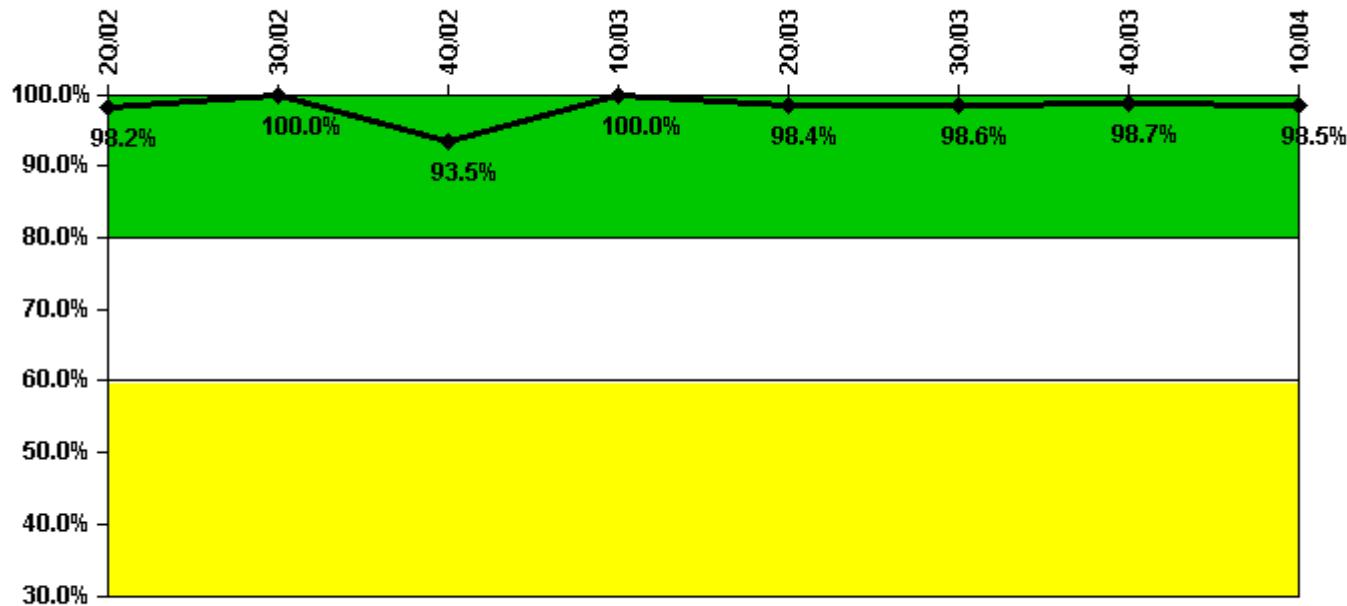
Licensee Comments:

4Q/02: Change Reports are being submitted for the Drill/Exercise Performance for the first, third and fourth quarters 2002 to correct data inputs. Changes in data reflect a change completed in August 2003 for the third quarter submittal, but the change was not correctly incorporated into other affected quarters. Fourth quarter data was also corrected to reflect two additional successful drill exercise opportunities. Drill/Exercise Performance remained within the green band.

3Q/02: Change Reports are being submitted for the Drill/Exercise Performance for the first, third and fourth quarters 2002 to correct data inputs. Changes in data reflect a change completed in August 2003 for the third quarter submittal, but the change was not correctly incorporated into other affected quarters. Drill/Exercise Performance remained within the green band.

1Q/02: Change Reports are being submitted for the Drill/Exercise Performance for the first, third and fourth quarters 2002 to correct data inputs. Changes in data reflect a change completed in August 2003 for the third quarter submittal, but the change was not correctly incorporated into other affected quarters. Drill/Exercise Performance remained within the green band.

ERO Drill Participation



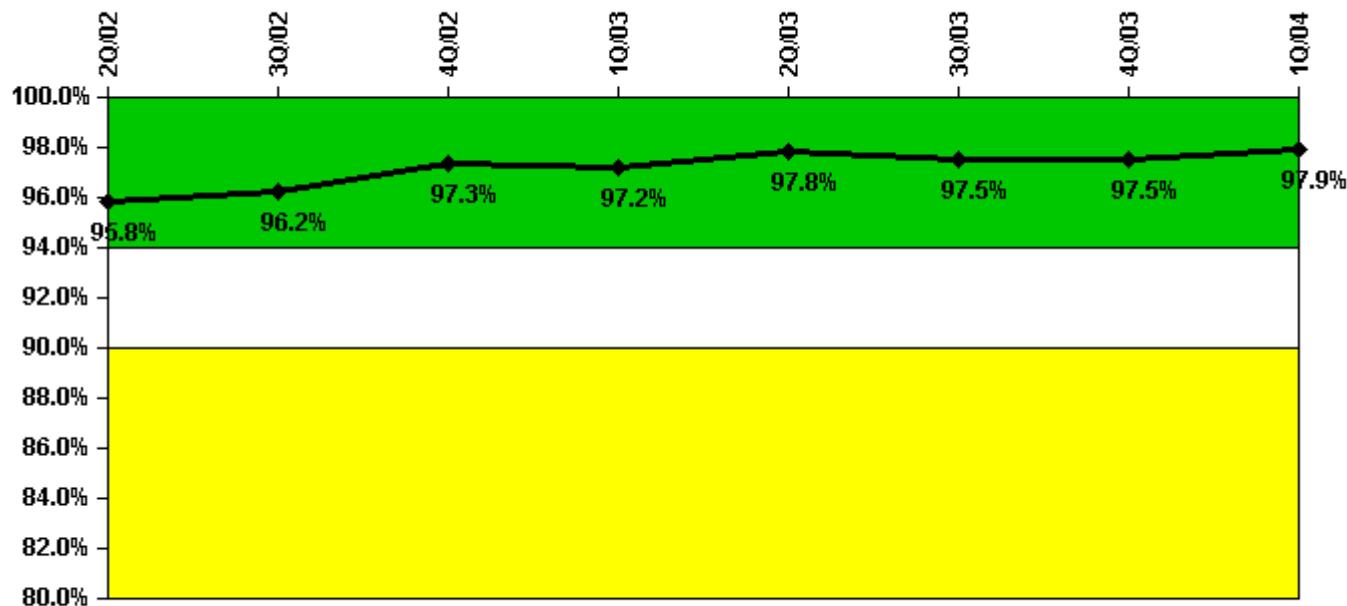
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Participating Key personnel	54.0	58.0	58.0	57.0	63.0	68.0	77.0	65.0
Total Key personnel	55.0	58.0	62.0	57.0	64.0	69.0	78.0	66.0
Indicator value	98.2%	100.0%	93.5%	100.0%	98.4%	98.6%	98.7%	98.5%

Licensee Comments: none

Alert & Notification System



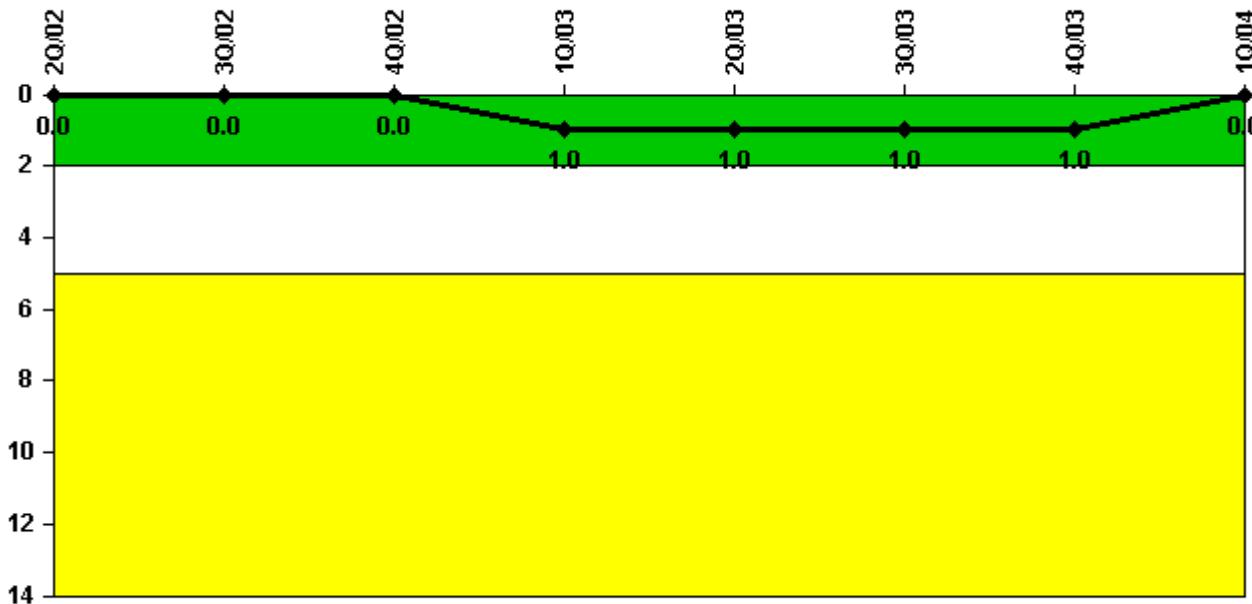
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Successful siren-tests	956	1035	1007	914	1036	963	1007	935
Total sirens-tests	1019	1057	1019	930	1074	996	1019	936
Indicator value	95.8%	96.2%	97.3%	97.2%	97.8%	97.5%	97.5%	97.9%

Licensee Comments:

1Q/04: Calvert Cliffs Units 1 & 2 implemented a change in test/activation methodology affecting 2 of 3 Counties in the EPZ during 2Q/2001. This change increased the number of pushbutton actuations during testing and actual activations from one to three times to improve the reliability of the existing system. This change mimics the operation of newer, automated systems. Calvert Cliffs replaced the original PANS in 4Q/2003 with a new alert and notification system incorporating automatic polling to further enhance the reliability of this safety function.

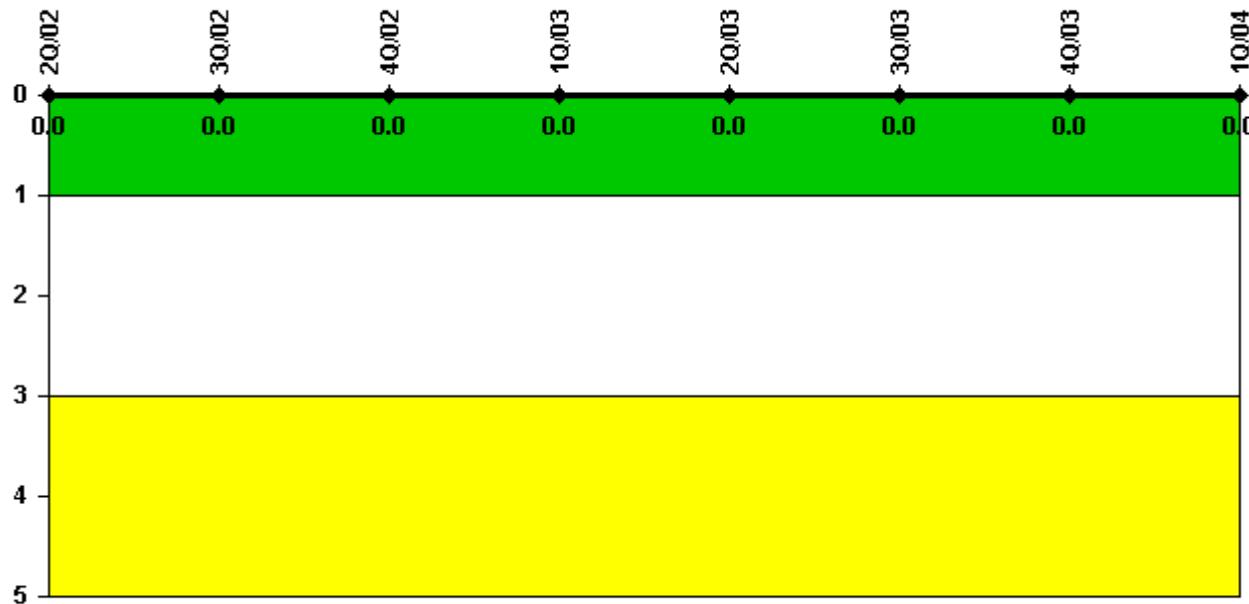
Occupational Exposure Control Effectiveness

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	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	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

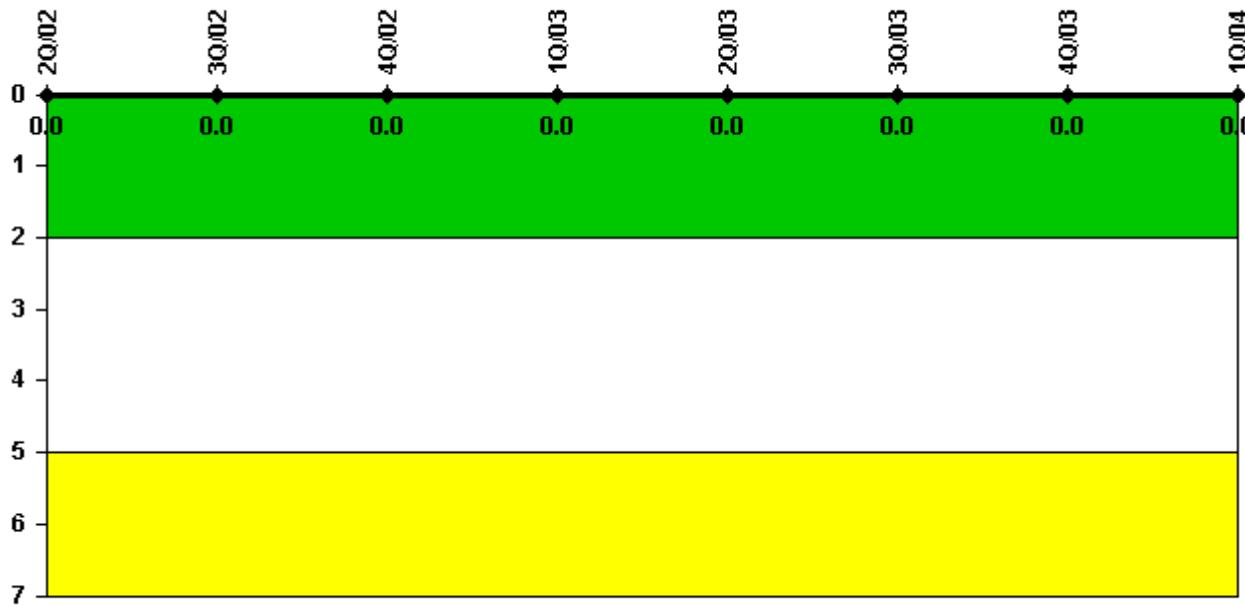


Thresholds: White > 0.080

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	1.80	7.80	14.20	24.90	11.70	25.40	20.00	0
CCTV compensatory hours	0	0	0	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	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Index Value	0.008	0.005	0.004	0.002	0.002	0.003	0.003	0.002

Licensee Comments: none

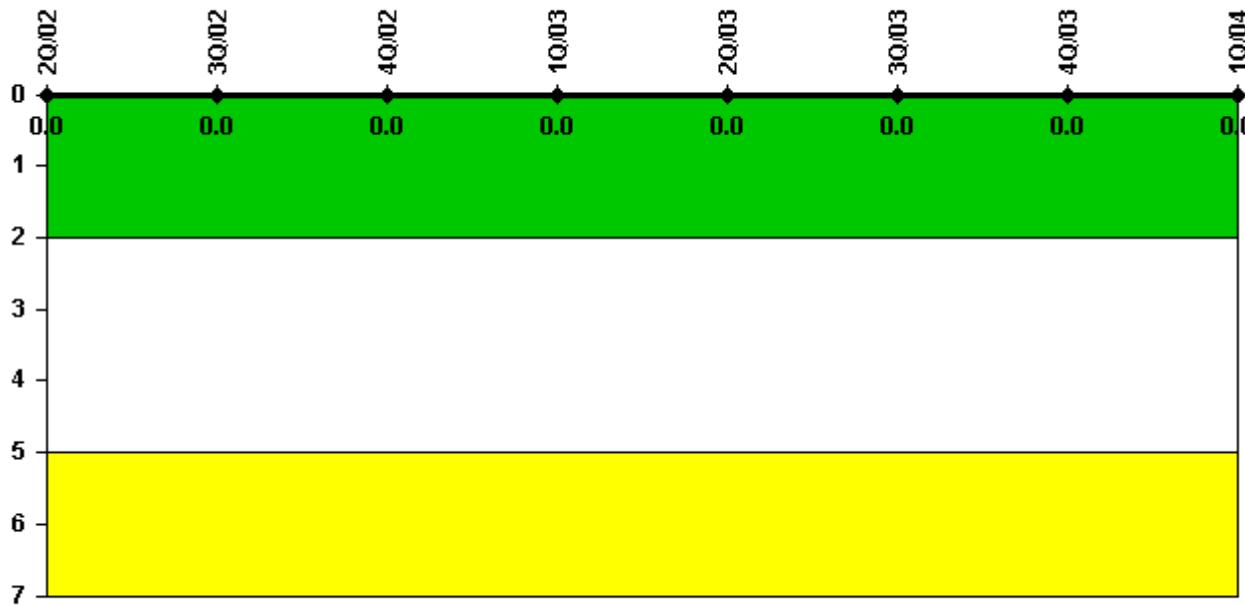
Personnel Screening Program

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	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

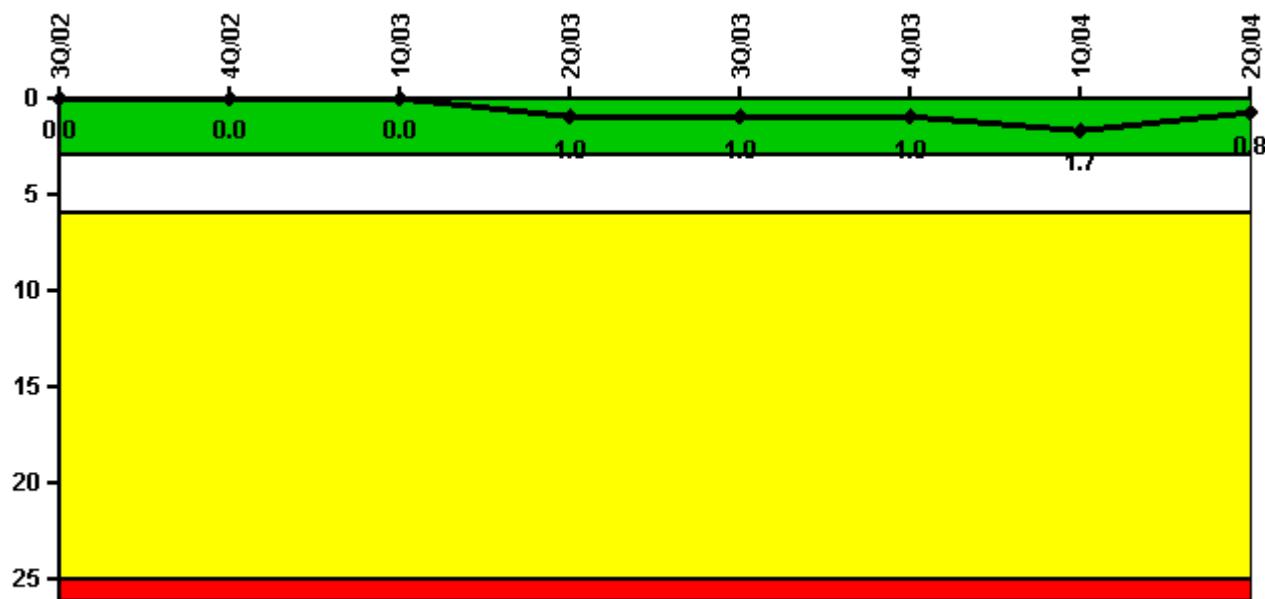


[PI Summary](#) | [Inspection Findings Summary](#) | [Reactor Oversight Process](#)

Last Modified: April 22, 2004

Calvert Cliffs 2**2Q/2004 Performance Indicators**

Licensee's General Comments: none

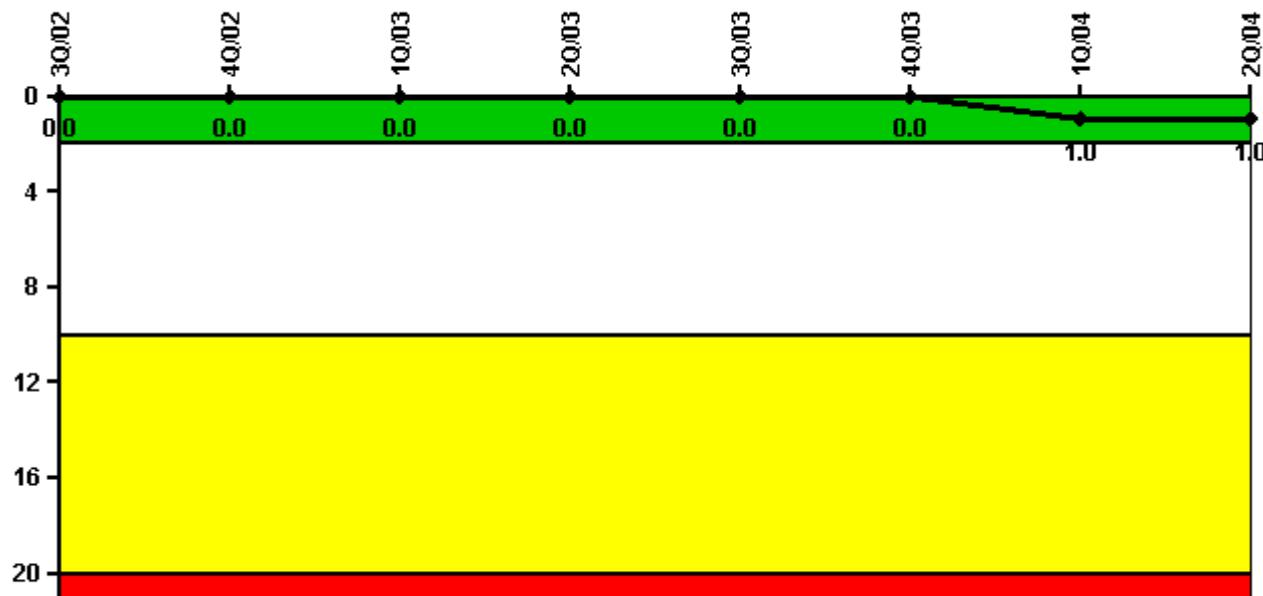
Unplanned Scrams per 7000 Critical Hrs

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	0	0	0	1.0	0	0	1.0	0
Critical hours	2208.0	2209.0	1079.4	1670.6	2208.0	2209.0	2134.4	2183.0
Indicator value	0	0	0	1.0	1.0	1.0	1.7	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

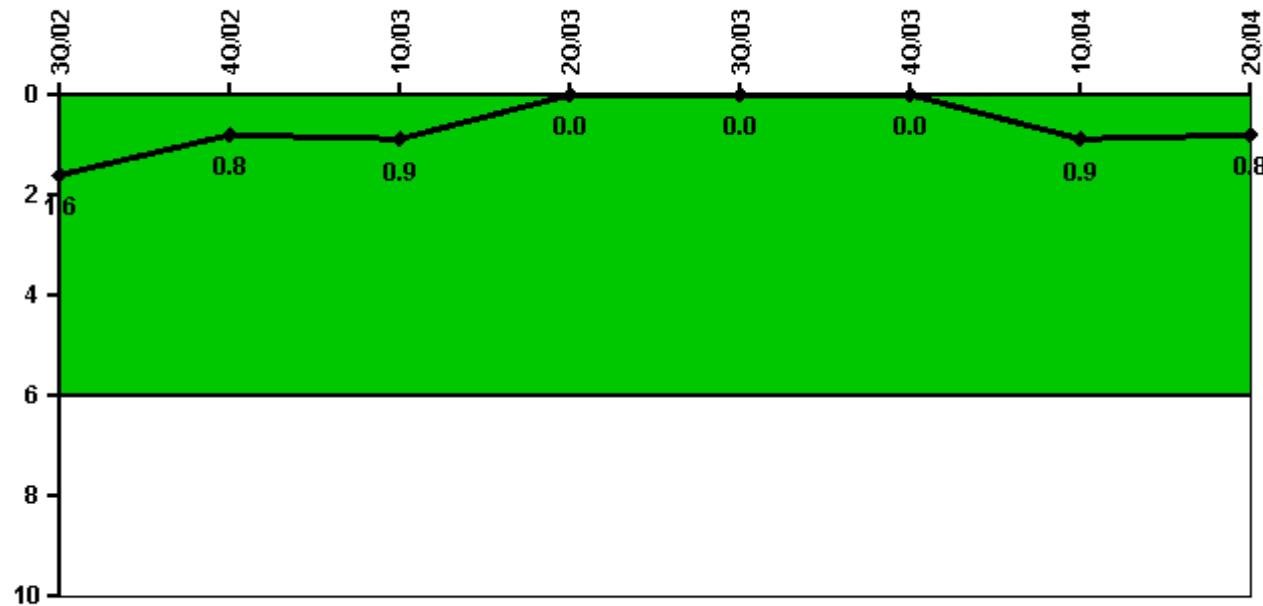
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



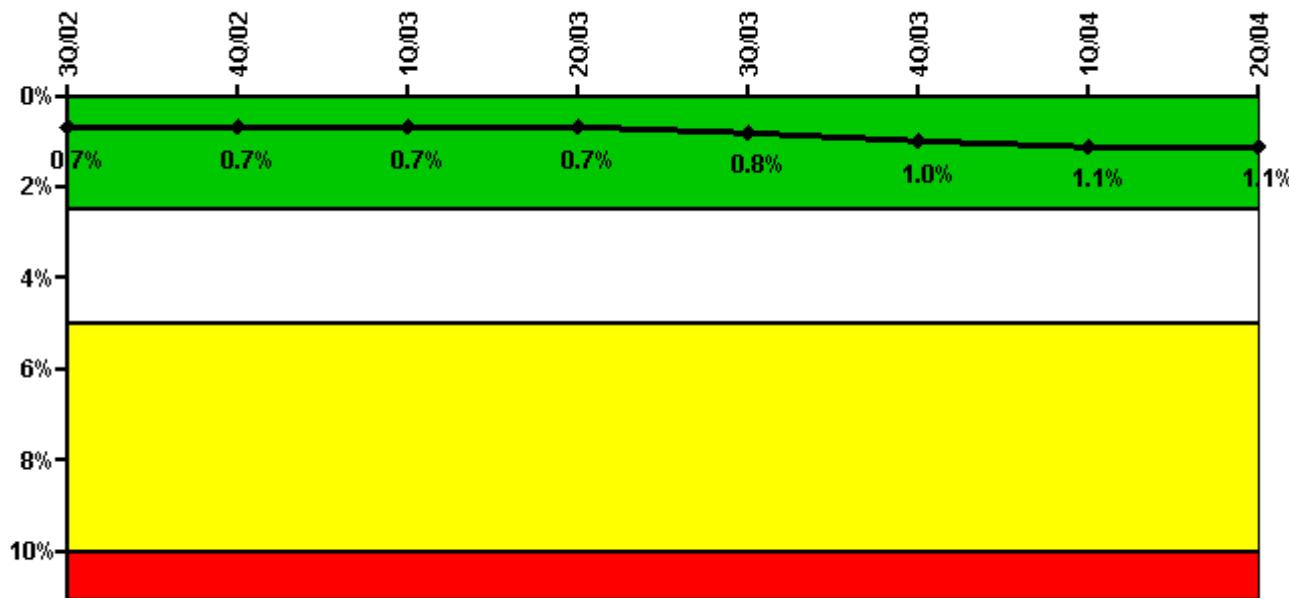
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2208.0	2209.0	1079.4	1670.6	2208.0	2209.0	2134.4	2183.0
Indicator value	1.6	0.8	0.9	0	0	0	0.9	0.8

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	0	20.18	0	0	27.13	22.65	0
Unplanned unavailable hours	0	0	0	0	0	117.97	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	2184.00	2183.00
Train 2								
Planned unavailable hours	13.27	6.30	34.39	1.05	32.42	8.68	27.27	11.61
Unplanned unavailable hours	0	0	0	0	0	0	20.00	0.91
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	2184.00	2183.00
Indicator value	0.7%	0.7%	0.7%	0.7%	0.8%	1.0%	1.1%	1.1%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



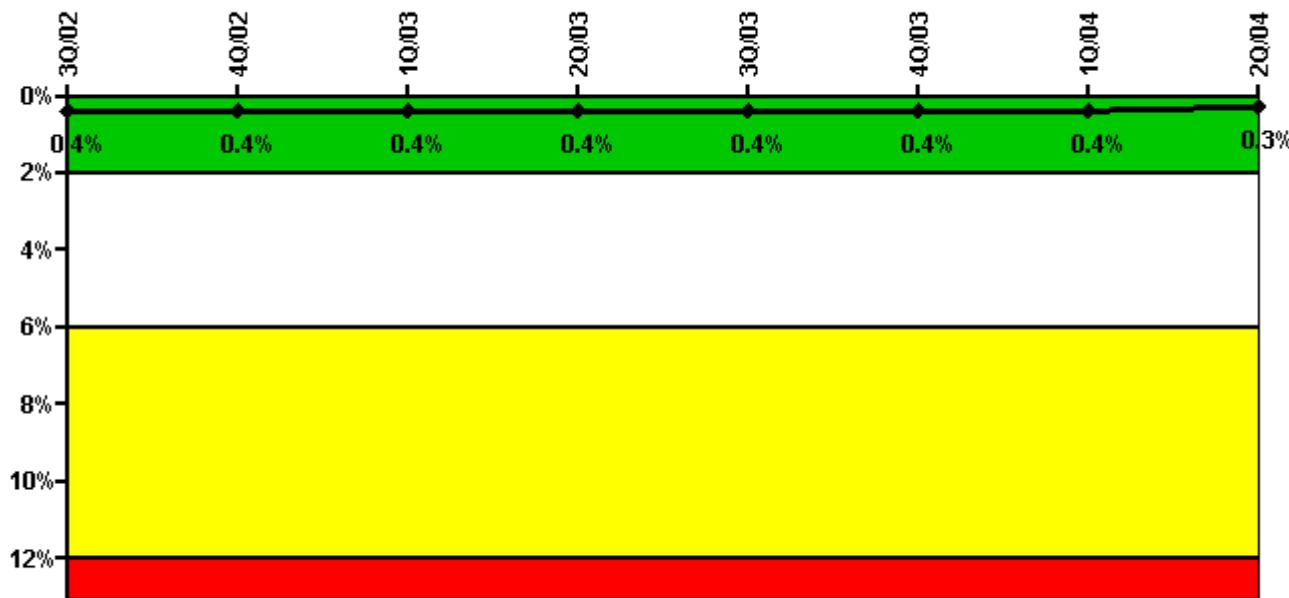
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	2.42	25.99	18.68	2.11	2.58	29.17	25.15	3.00
Unplanned unavailable hours	0	0.77	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	1079.40	1670.60	2208.00	2209.00	2134.40	2183.00
Train 2								
Planned unavailable hours	34.49	1.23	33.78	3.98	35.00	2.04	31.72	3.00
Unplanned unavailable hours	0	0	3.40	0	0	0	0	0.33
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1079.40	1670.60	2208.00	2209.00	2134.40	2183.00
Indicator value	0.6%	0.6%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



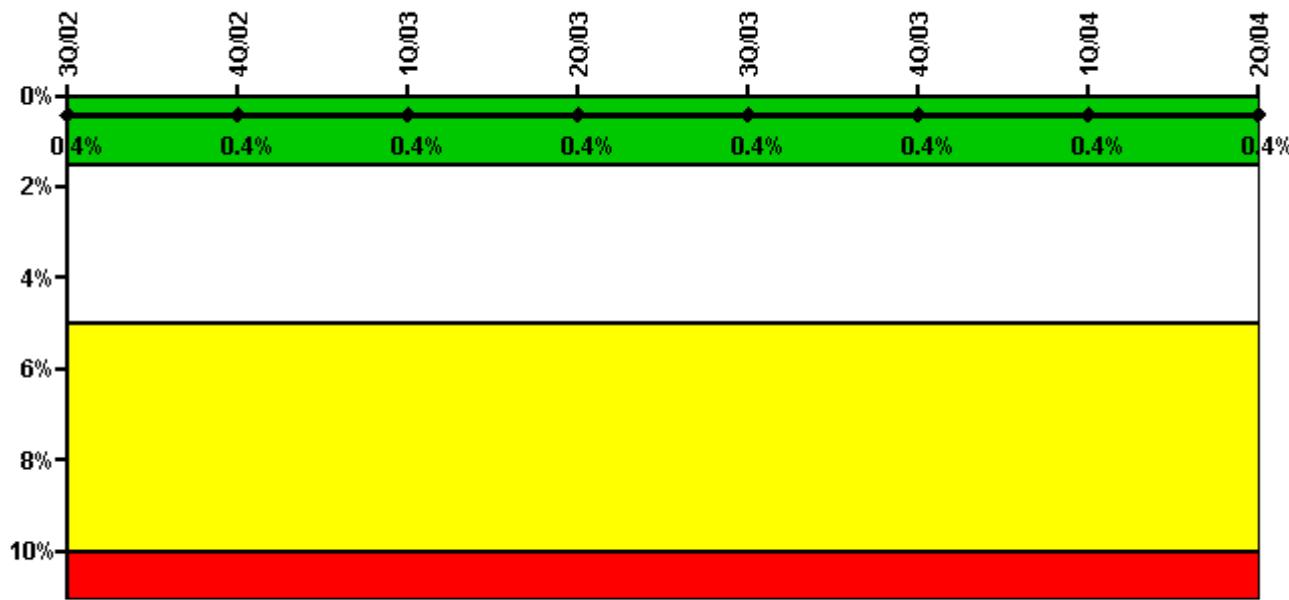
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	0	0.40	0	0.92	0	14.50	0.67	2.79
Unplanned unavailable hours	0	0.37	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	1079.40	1670.60	2208.00	2209.00	2134.40	2183.00
Train 2								
Planned unavailable hours	0.47	1.07	0	0.42	0.97	14.82	0.45	0
Unplanned unavailable hours	0	0.90	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	1079.40	1670.60	2208.00	2209.00	2134.40	2183.00
Train 3								
Planned unavailable hours	0	0	0.52	0	0	0	4.57	0
Unplanned unavailable hours	23.38	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	1079.40	1670.60	2208.00	2209.00	2134.40	2183.00
Indicator value	0.4%	0.3%						

Licensee Comments: none

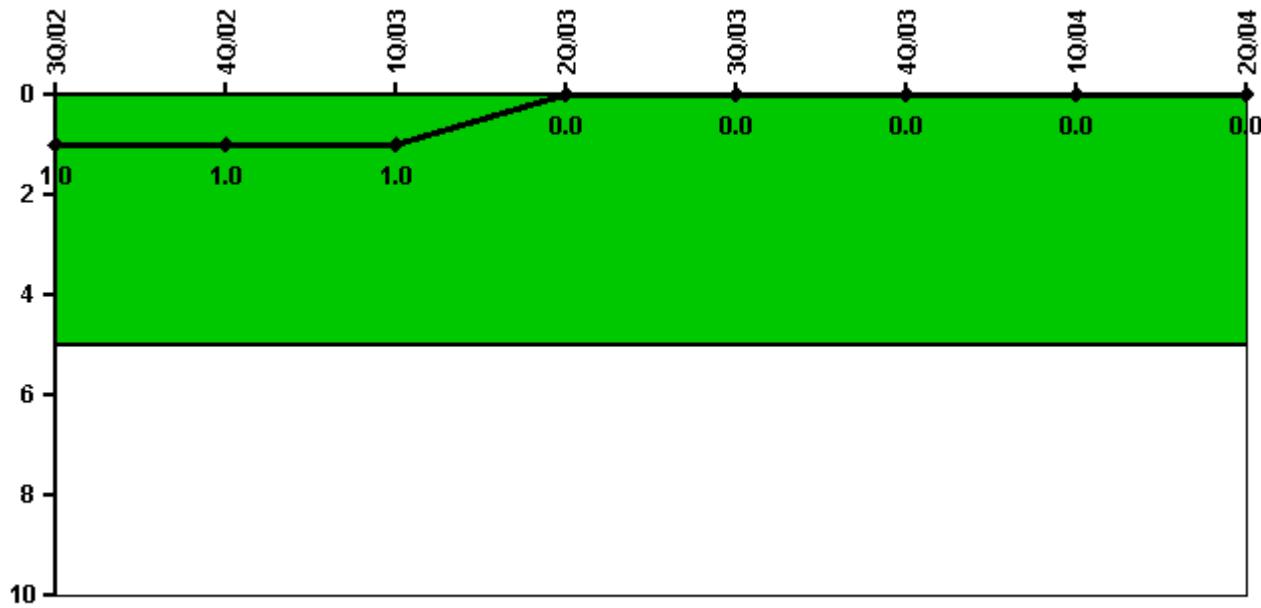
Safety System Unavailability, Residual Heat Removal System



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

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	0	0	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	0	0	304.50	300.00	0	0	0	0
Train 2								
Planned unavailable hours	0	0	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	0	0	304.50	300.00	0	0	0	0
Train 3								
Planned unavailable hours	2.49	3.66	18.24	6.55	3.43	28.88	28.26	1.38
Unplanned unavailable hours	1.92	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	1090.30	1741.90	2208.00	2209.00	2184.00	2183.00
Train 4								
Planned unavailable hours	42.50	3.06	33.74	19.05	34.77	1.25	28.35	1.17
Unplanned unavailable hours	3.15	0	3.40	0	0	0	0	0.33
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1090.30	1741.90	2208.00	2209.00	2184.00	2183.00
Indicator value	0.4%							

Safety System Functional Failures (PWR)

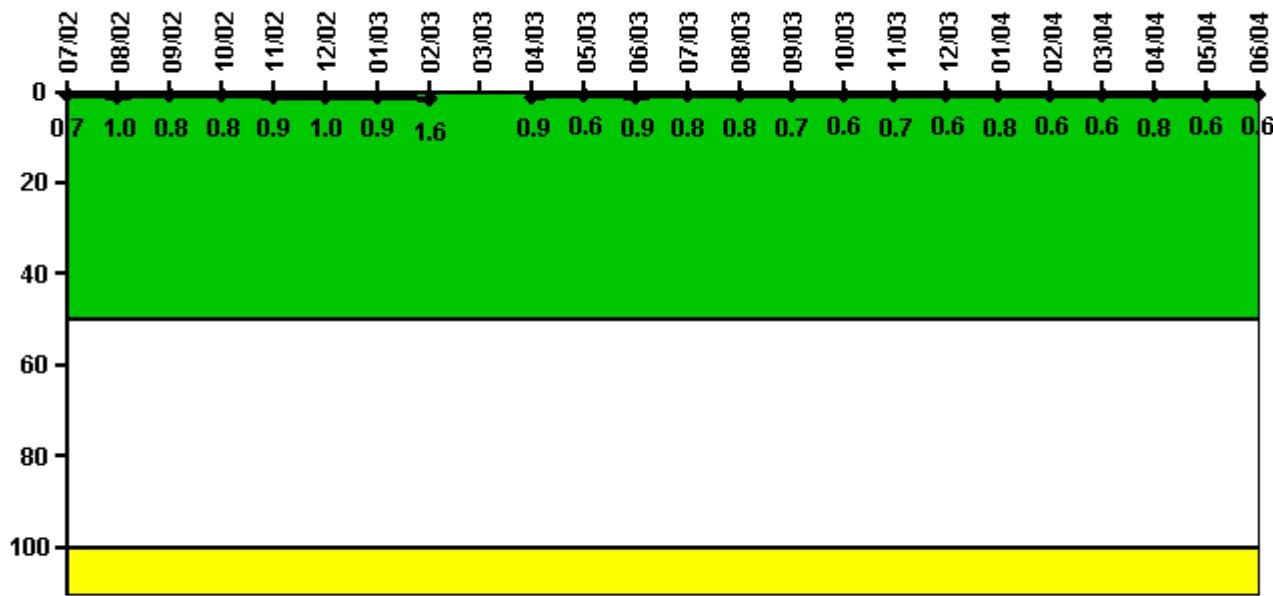
Thresholds: White > 5.0

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	1	1	1	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

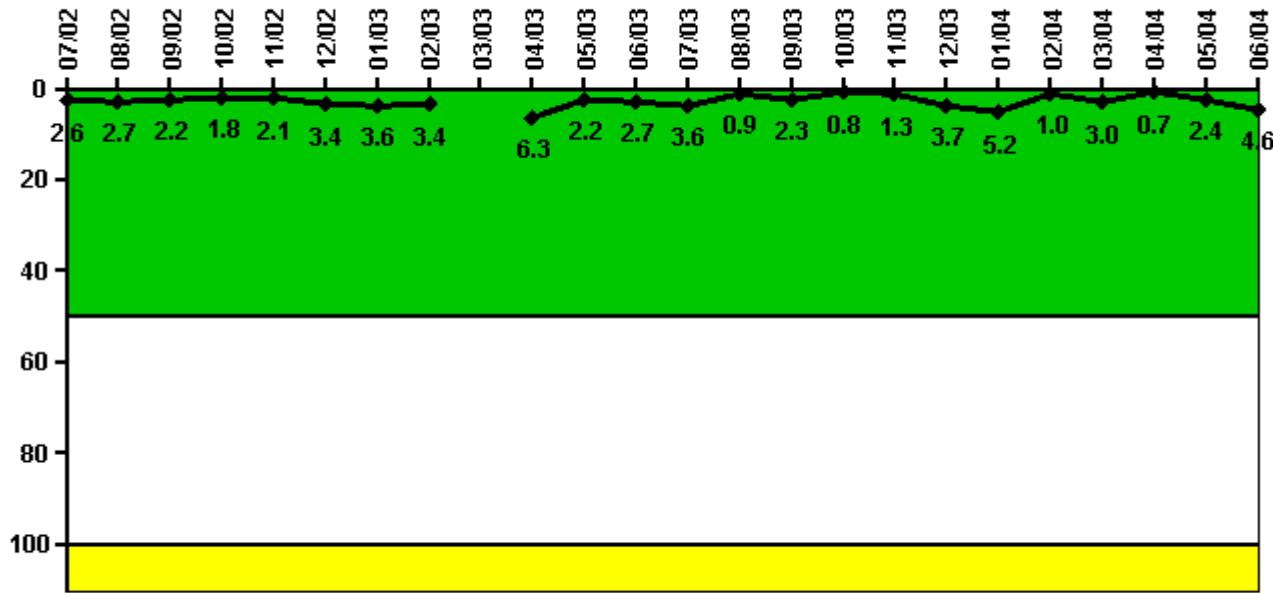
Notes

Reactor Coolant System Activity	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	0.006550	0.009630	0.007900	0.007980	0.008700	0.009630	0.008560	0.015900	N/A	0.009480	0.005990	0.008670
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	0.7	1.0	0.8	0.8	0.9	1.0	0.9	1.6	N/A	0.9	0.6	0.9

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	0.007940	0.007550	0.006680	0.006480	0.006510	0.006060	0.008230	0.006480	0.006130	0.007520	0.005780	0.006260
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	0.8	0.8	0.7	0.6	0.7	0.6	0.8	0.6	0.6	0.8	0.6	0.6

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

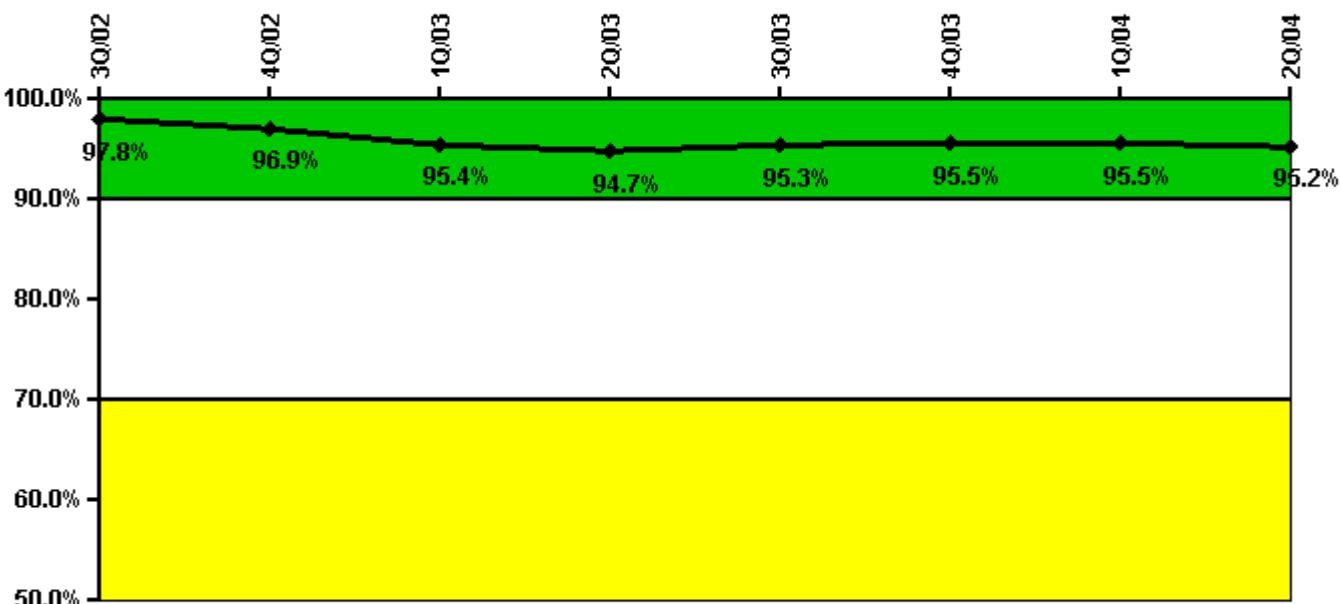
Notes

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	0.262	0.273	0.220	0.177	0.210	0.338	0.360	0.340	N/A	0.630	0.220	0.270
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	2.6	2.7	2.2	1.8	2.1	3.4	3.6	3.4	N/A	6.3	2.2	2.7

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	0.357	0.094	0.228	0.077	0.129	0.367	0.520	0.100	0.300	0.070	0.240	0.460
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	3.6	0.9	2.3	0.8	1.3	3.7	5.2	1.0	3.0	0.7	2.4	4.6

Licensee Comments: none

Drill/Exercise Performance



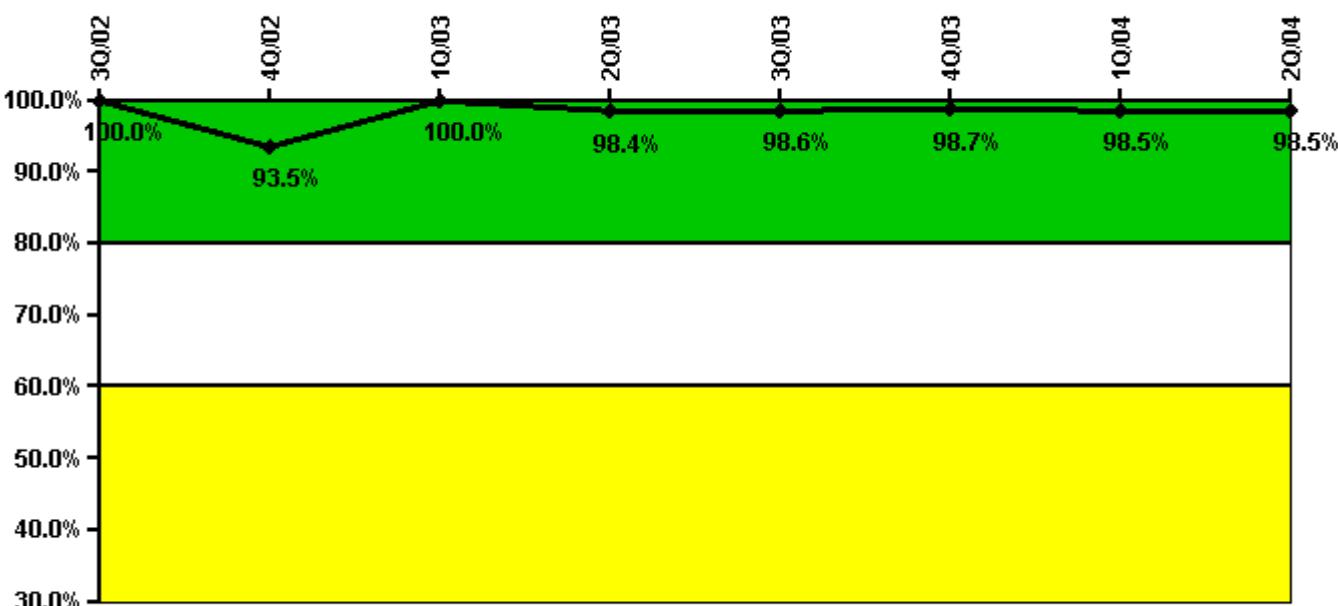
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful opportunities	35.0	45.0	9.0	14.0	29.0	56.0	18.0	14.0
Total opportunities	38.0	47.0	12.0	15.0	29.0	57.0	18.0	15.0
Indicator value	97.8%	96.9%	95.4%	94.7%	95.3%	95.5%	95.5%	95.2%

Licensee Comments: none

ERO Drill Participation



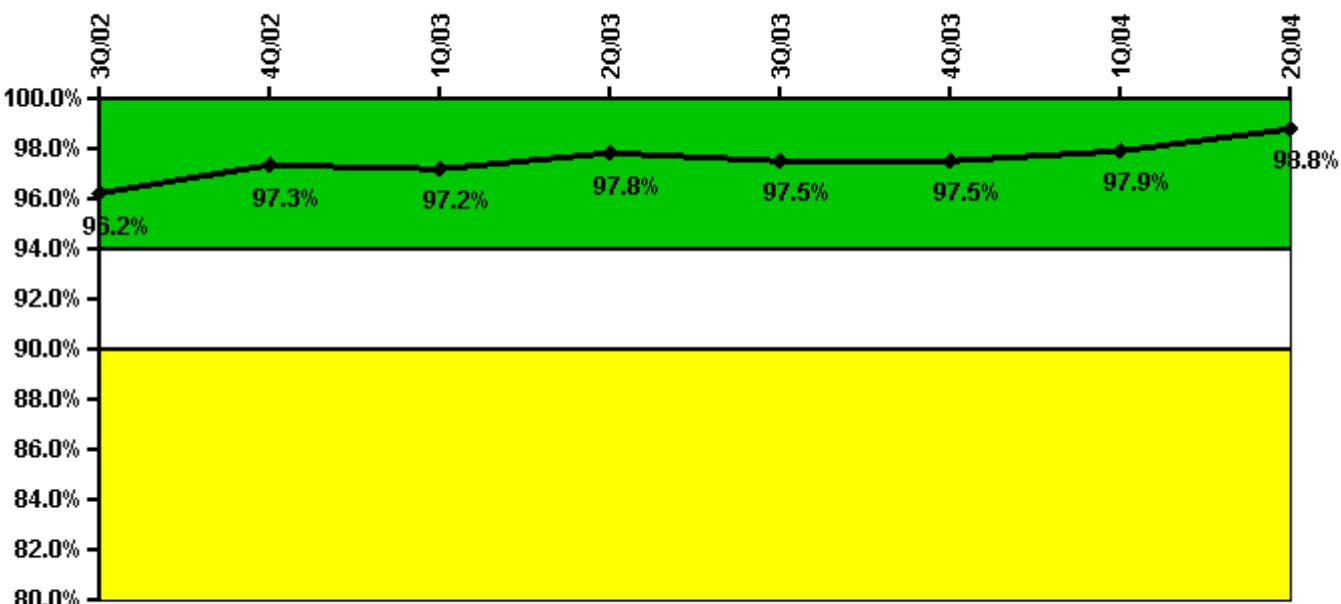
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Participating Key personnel	58.0	58.0	57.0	63.0	68.0	77.0	65.0	65.0
Total Key personnel	58.0	62.0	57.0	64.0	69.0	78.0	66.0	66.0
Indicator value	100.0%	93.5%	100.0%	98.4%	98.6%	98.7%	98.5%	98.5%

Licensee Comments: none

Alert & Notification System



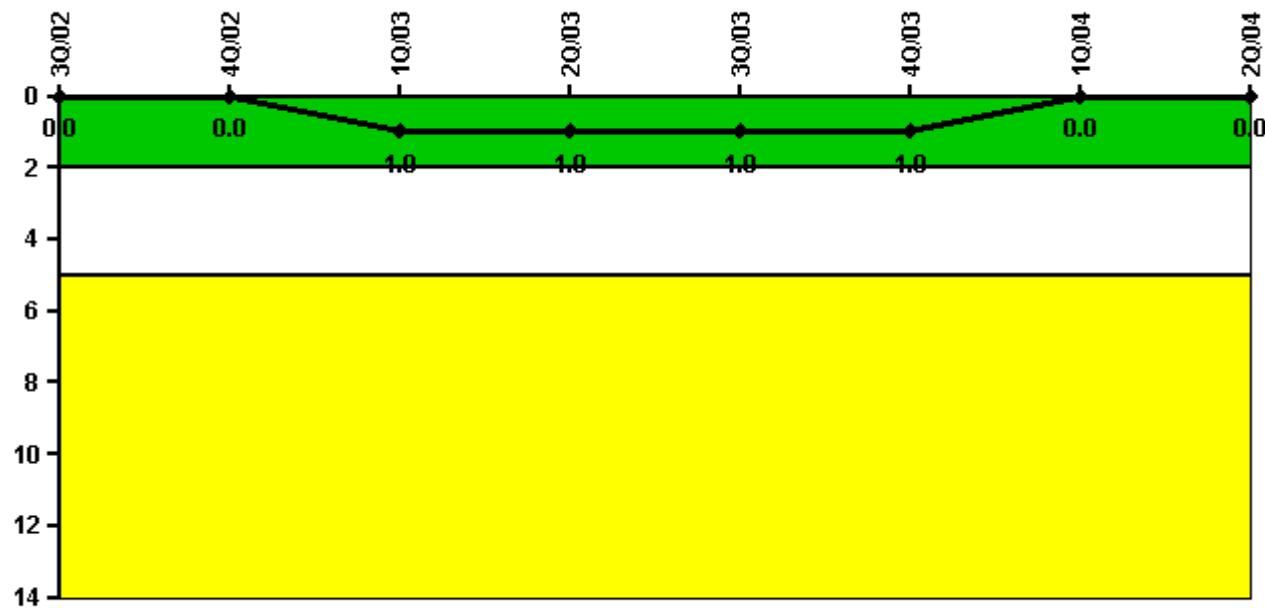
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful siren-tests	1035	1007	914	1036	963	1007	935	934
Total sirens-tests	1057	1019	930	1074	996	1019	936	936
Indicator value	96.2%	97.3%	97.2%	97.8%	97.5%	97.5%	97.9%	98.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



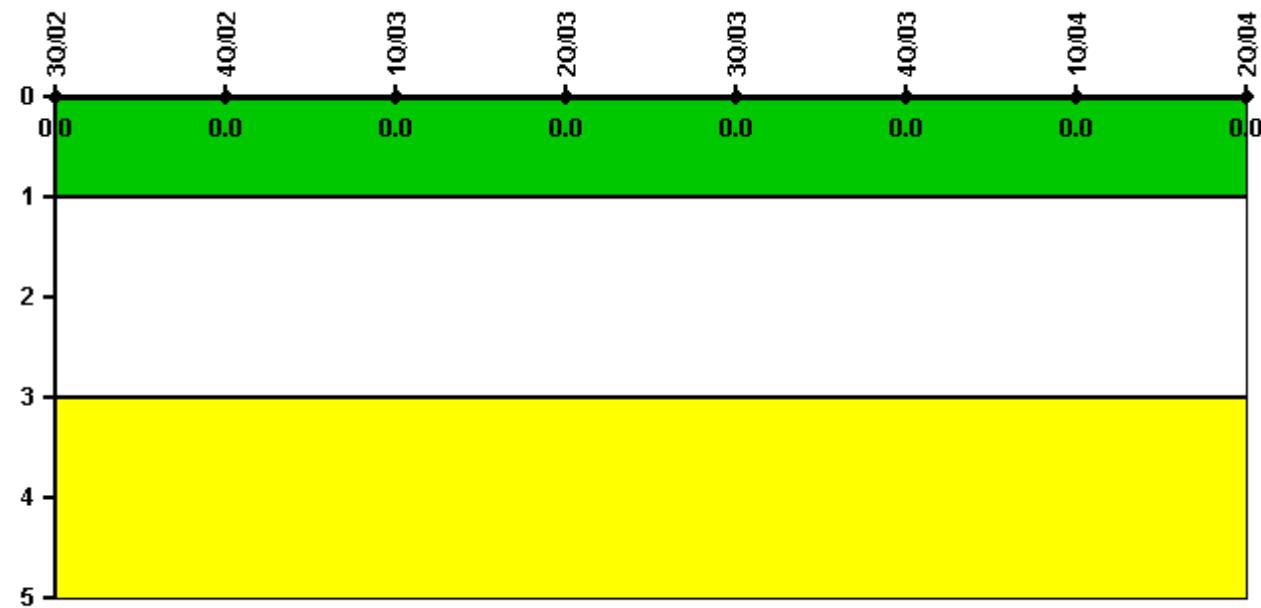
Thresholds: White > 2.0 Yellow > 5.0

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	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



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.

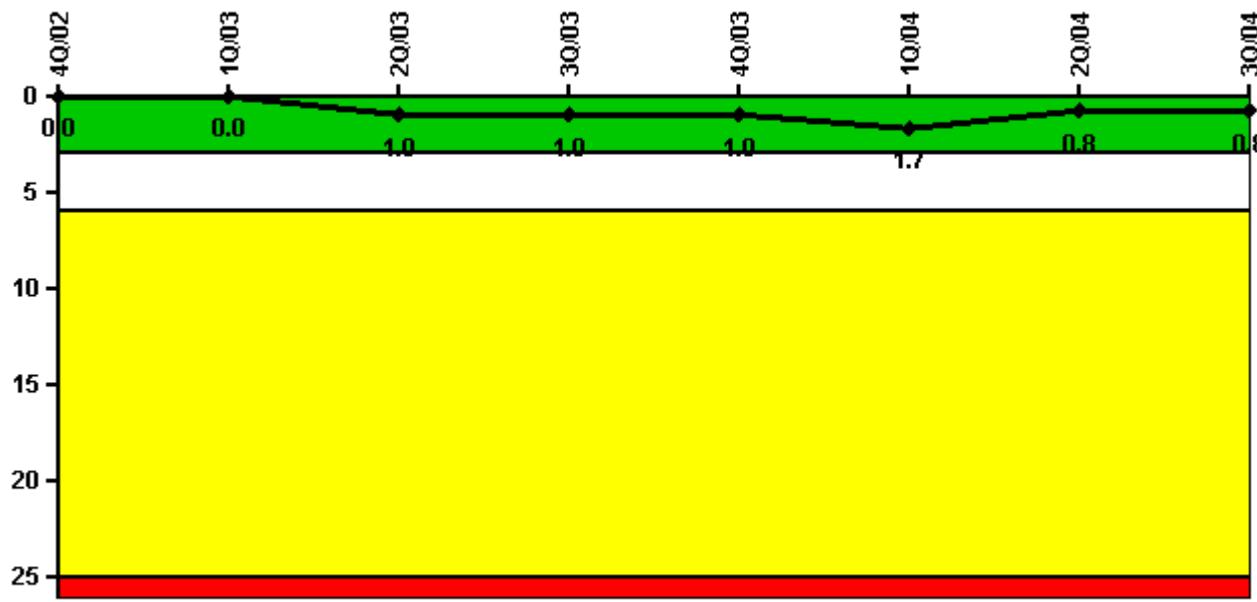


[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: September 8, 2004

Calvert Cliffs 2**3Q/2004 Performance Indicators**

Licensee's General Comments: none

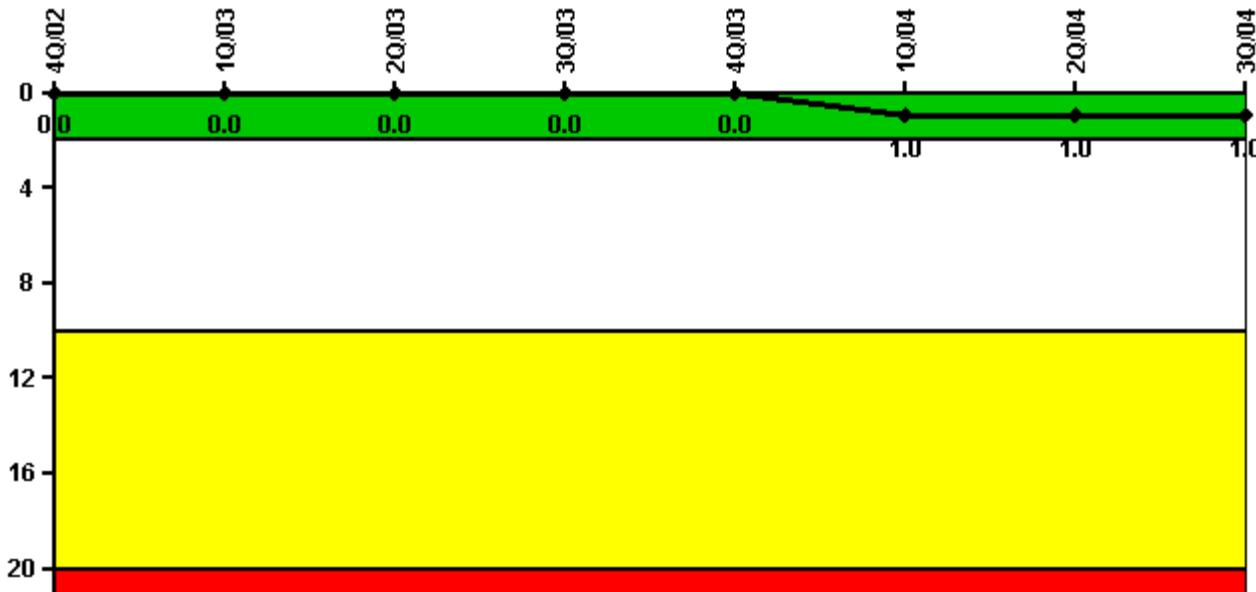
Unplanned Scrams per 7000 Critical Hrs

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	0	1.0	0	0	1.0	0	0
Critical hours	2209.0	1079.4	1670.6	2208.0	2209.0	2134.4	2183.0	2208.0
Indicator value	0	0	1.0	1.0	1.0	1.7	0.8	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

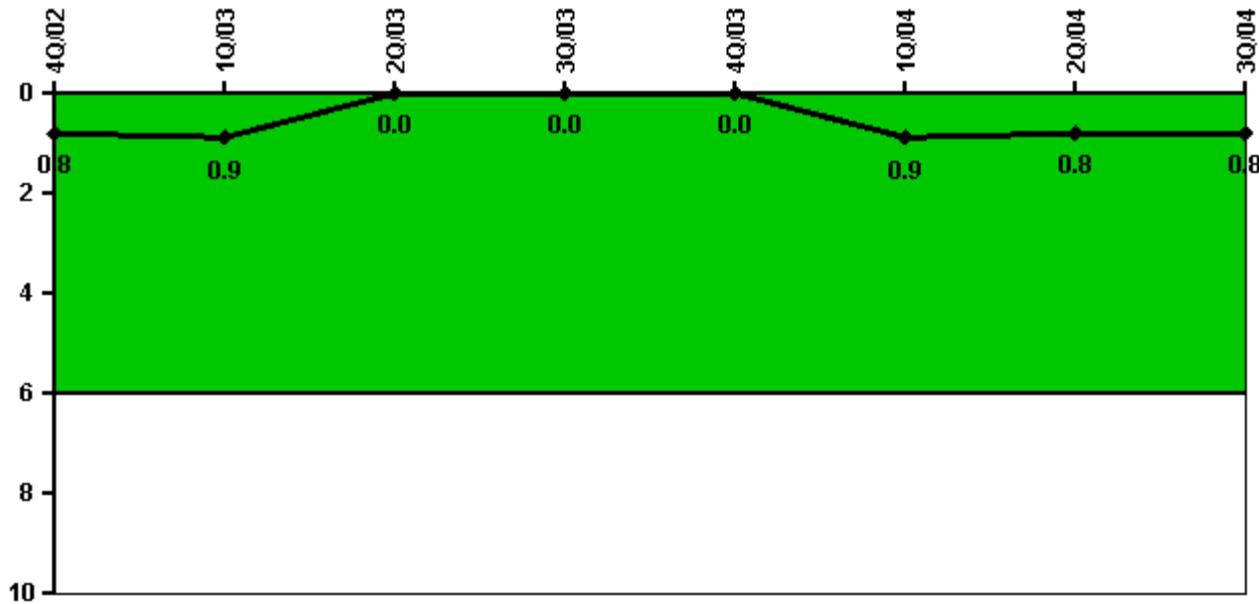
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
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: none

Unplanned Power Changes per 7000 Critical Hrs



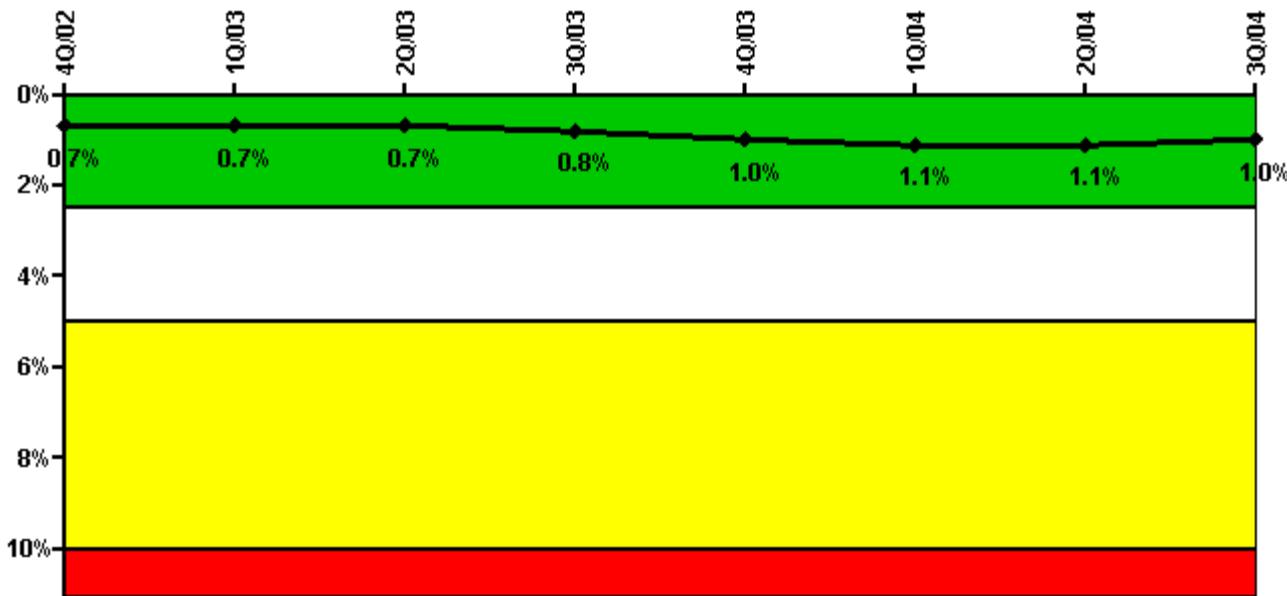
Thresholds: White > 6.0

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	0	0	0	0	1.0	0	0
Critical hours	2209.0	1079.4	1670.6	2208.0	2209.0	2134.4	2183.0	2208.0
Indicator value	0.8	0.9	0	0	0	0.9	0.8	0.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



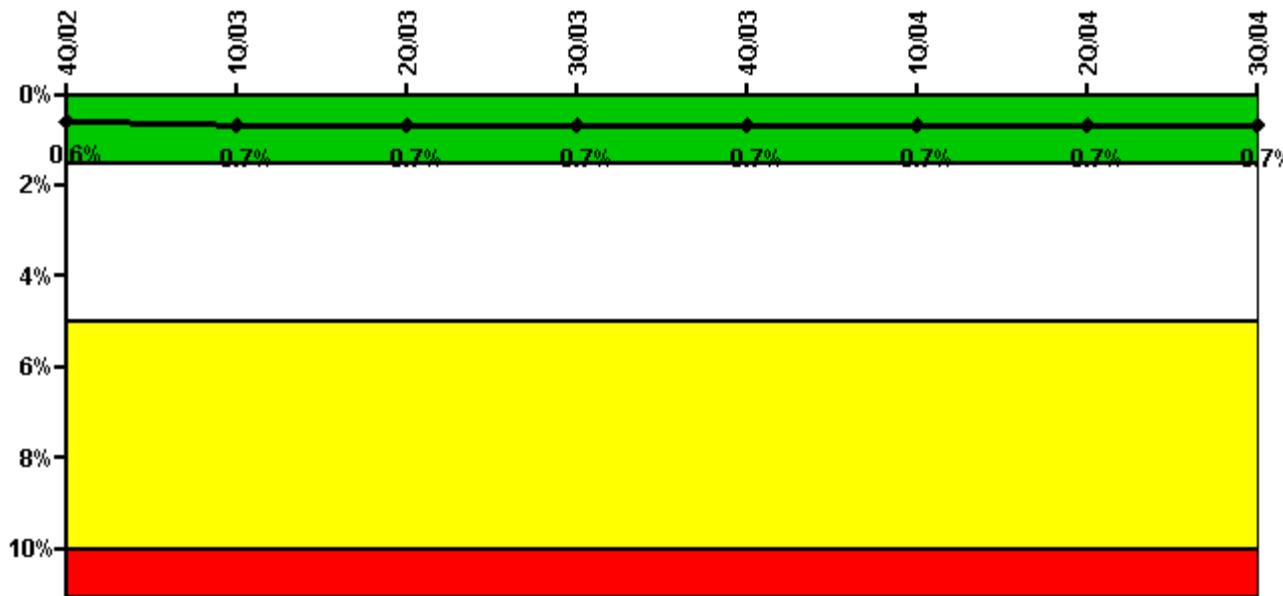
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

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	20.18	0	0	27.13	22.65	0	0
Unplanned unavailable hours	0	0	0	0	117.97	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	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	6.30	34.39	1.05	32.42	8.68	27.27	11.61	18.84
Unplanned unavailable hours	0	0	0	0	0	20.00	0.91	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	2184.00	2183.00	2208.00
Indicator value	0.7%	0.7%	0.7%	0.8%	1.0%	1.1%	1.1%	1.0%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



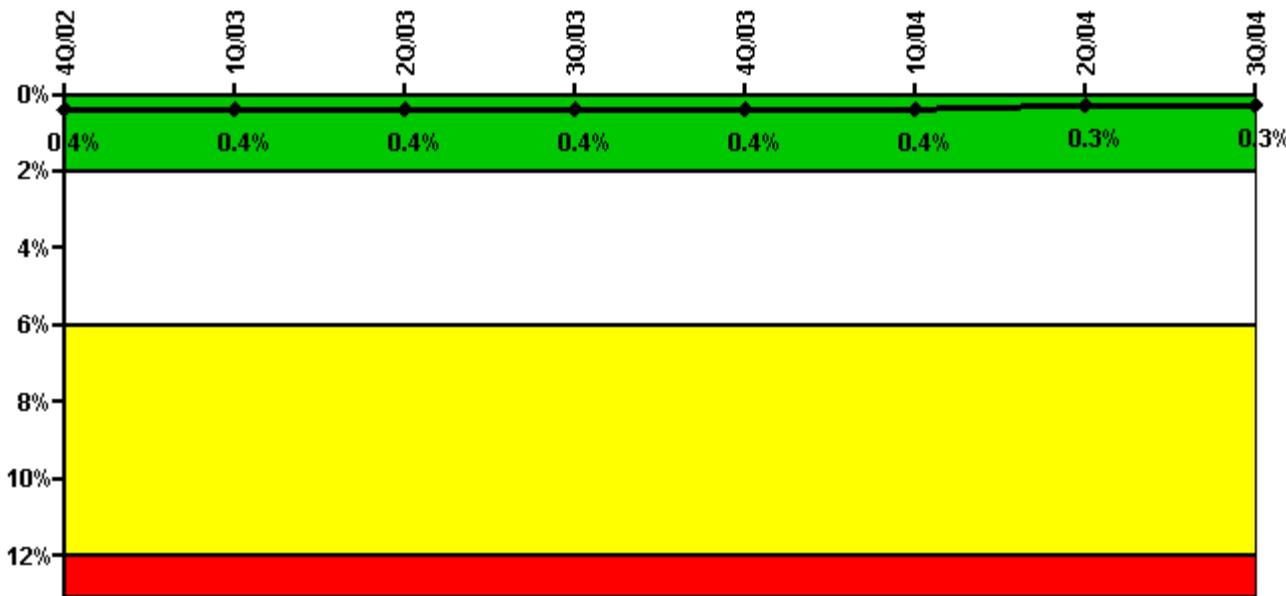
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	25.99	18.68	2.11	2.58	29.17	25.15	3.00	0.59
Unplanned unavailable hours	0.77	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	1079.40	1670.60	2208.00	2209.00	2134.40	2183.00	2208.00
Train 2								
Planned unavailable hours	1.23	33.78	3.98	35.00	2.04	31.72	3.00	24.01
Unplanned unavailable hours	0	3.40	0	0	0	0	0.33	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	2209.00	1079.40	1670.60	2208.00	2209.00	2134.40	2183.00	2208.00
Indicator value	0.6%	0.7%						

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



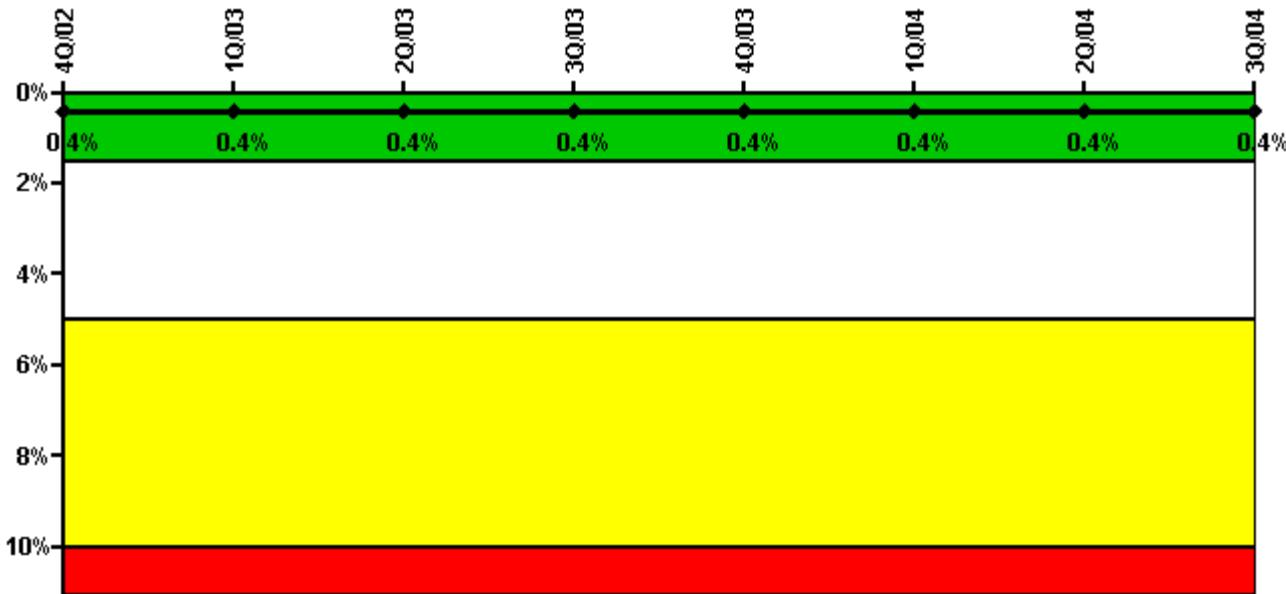
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	0.40	0	0.92	0	14.50	0.67	2.79	0.68
Unplanned unavailable hours	0.37	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	1079.40	1670.60	2208.00	2209.00	2134.40	2183.00	2208.00
Train 2								
Planned unavailable hours	1.07	0	0.42	0.97	14.82	0.45	0	4.77
Unplanned unavailable hours	0.90	0	0	0	0	0	0	4.25
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	1079.40	1670.60	2208.00	2209.00	2134.40	2183.00	2208.00
Train 3								
Planned unavailable hours	0	0.52	0	0	0	4.57	0	43.08
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	1079.40	1670.60	2208.00	2209.00	2134.40	2183.00	2208.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

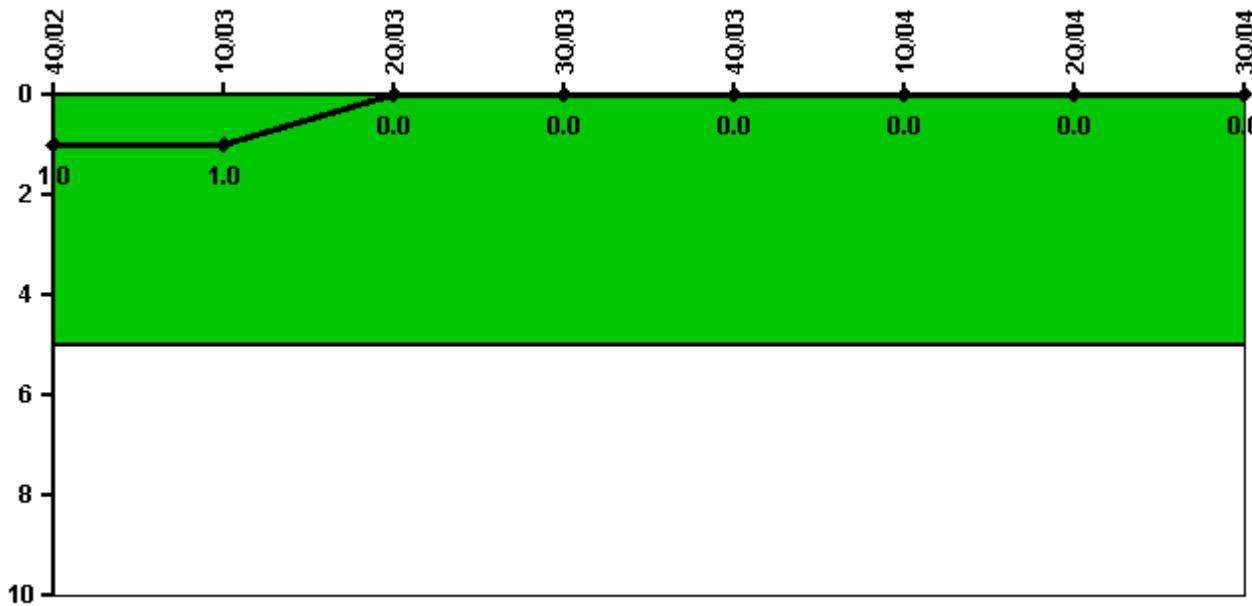


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Licensee Comments: none

Safety System Functional Failures (PWR)



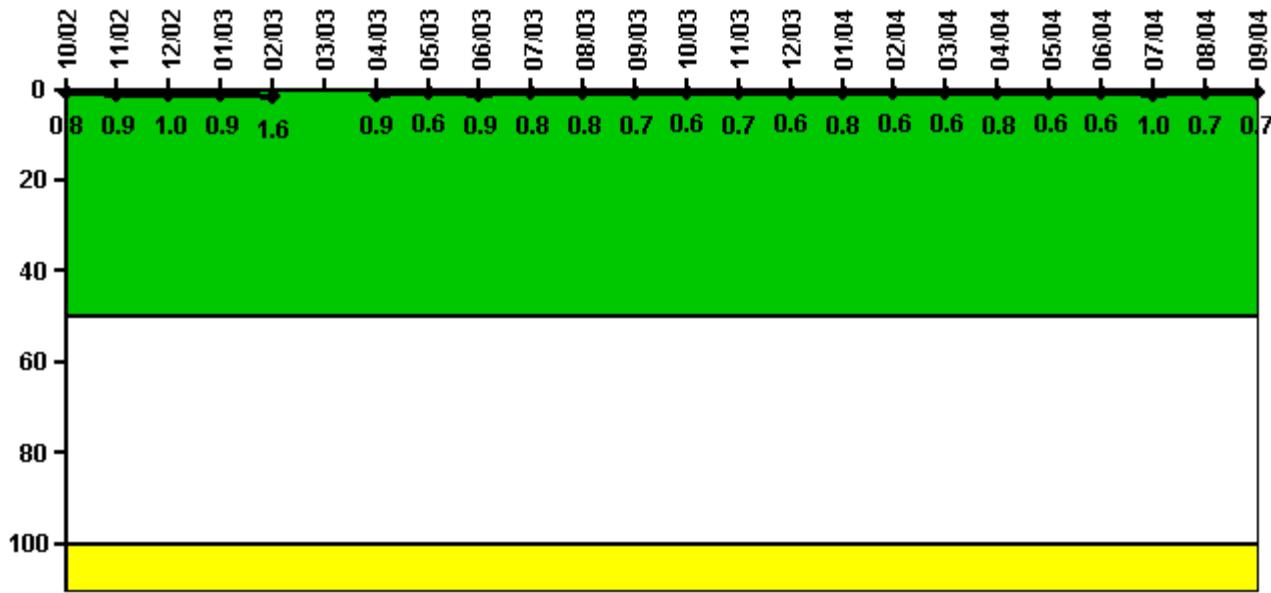
Thresholds: White > 5.0

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	1	1	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Activity



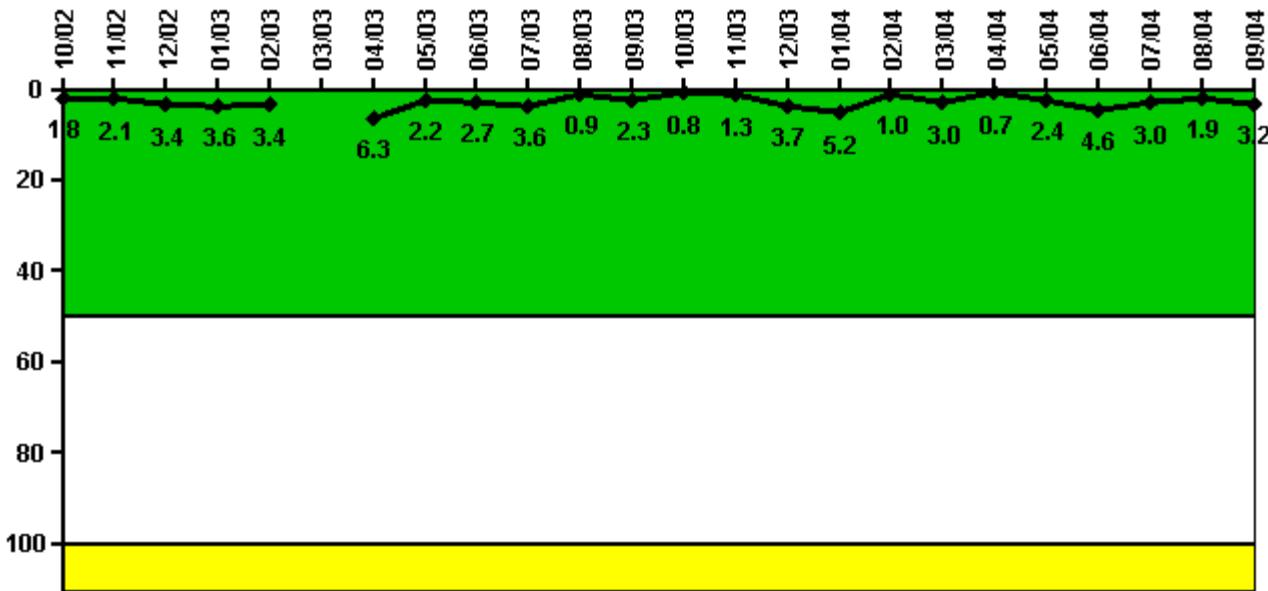
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity		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		0.007980	0.008700	0.009630	0.008560	0.015900	N/A	0.009480	0.005990	0.008670	0.007940	0.007550	0.006680
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		0.8	0.9	1.0	0.9	1.6	N/A	0.9	0.6	0.9	0.8	0.8	0.7
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		0.006480	0.006510	0.006060	0.008230	0.006480	0.006130	0.007520	0.005780	0.006260	0.010300	0.007170	0.006560
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		0.6	0.7	0.6	0.8	0.6	0.6	0.8	0.6	0.6	1.0	0.7	0.7

Licensee Comments: none

Reactor Coolant System Leakage

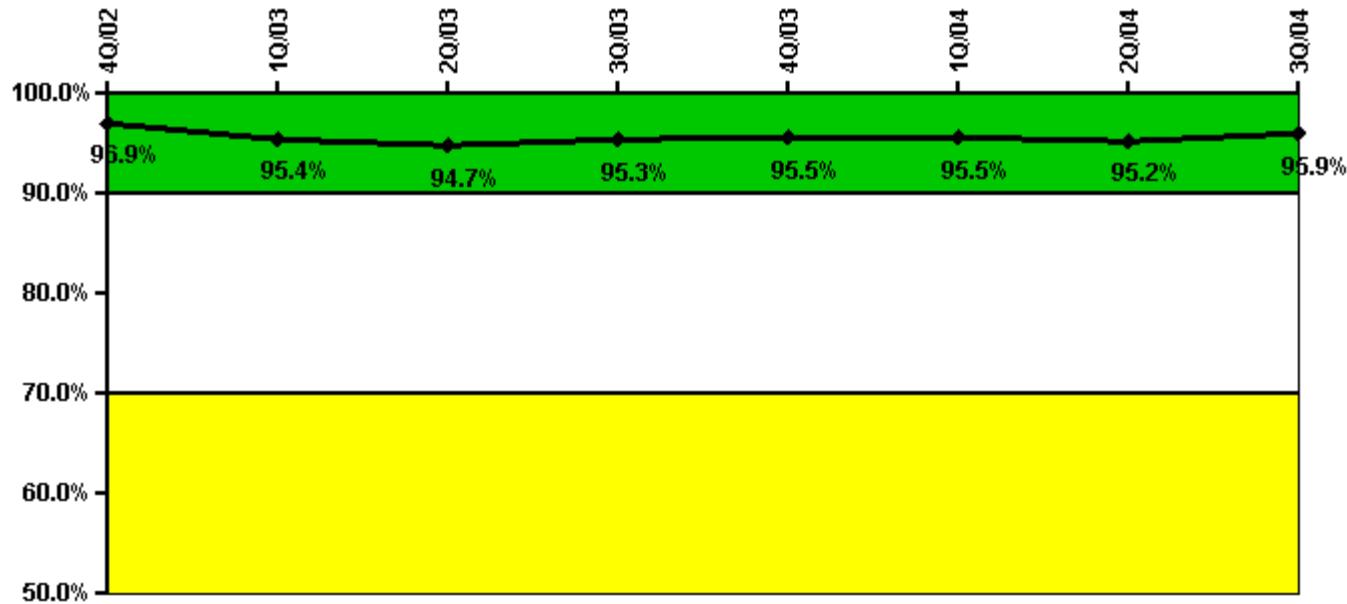


Thresholds: White > 50.0 Yellow > 100.0

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	0.177	0.210	0.338	0.360	0.340	N/A	0.630	0.220	0.270	0.357	0.094	0.228
Indicator value	1.8	2.1	3.4	3.6	3.4	N/A	6.3	2.2	2.7	3.6	0.9	2.3
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	0.077	0.129	0.367	0.520	0.100	0.300	0.070	0.240	0.460	0.300	0.190	0.320
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	0.8	1.3	3.7	5.2	1.0	3.0	0.7	2.4	4.6	3.0	1.9	3.2

Licensee Comments: none

Drill/Exercise Performance

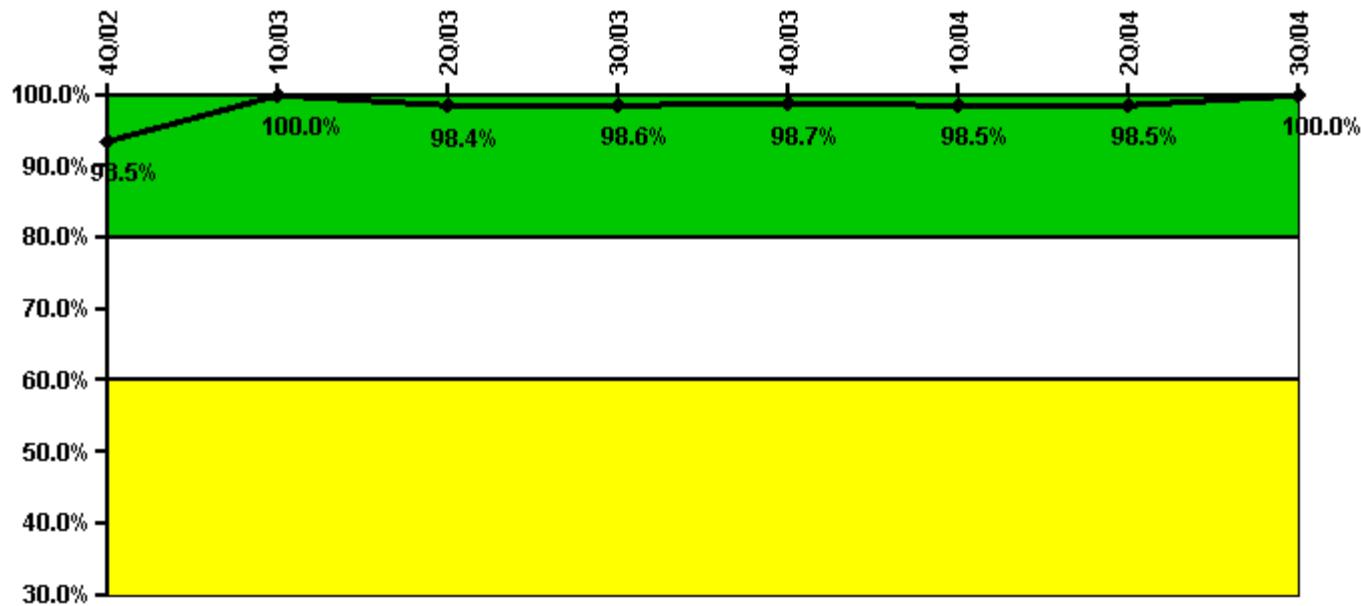
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful opportunities	45.0	9.0	14.0	29.0	56.0	18.0	14.0	26.0
Total opportunities	47.0	12.0	15.0	29.0	57.0	18.0	15.0	27.0
Indicator value	96.9%	95.4%	94.7%	95.3%	95.5%	95.5%	95.2%	95.9%

Licensee Comments: none

ERO Drill Participation



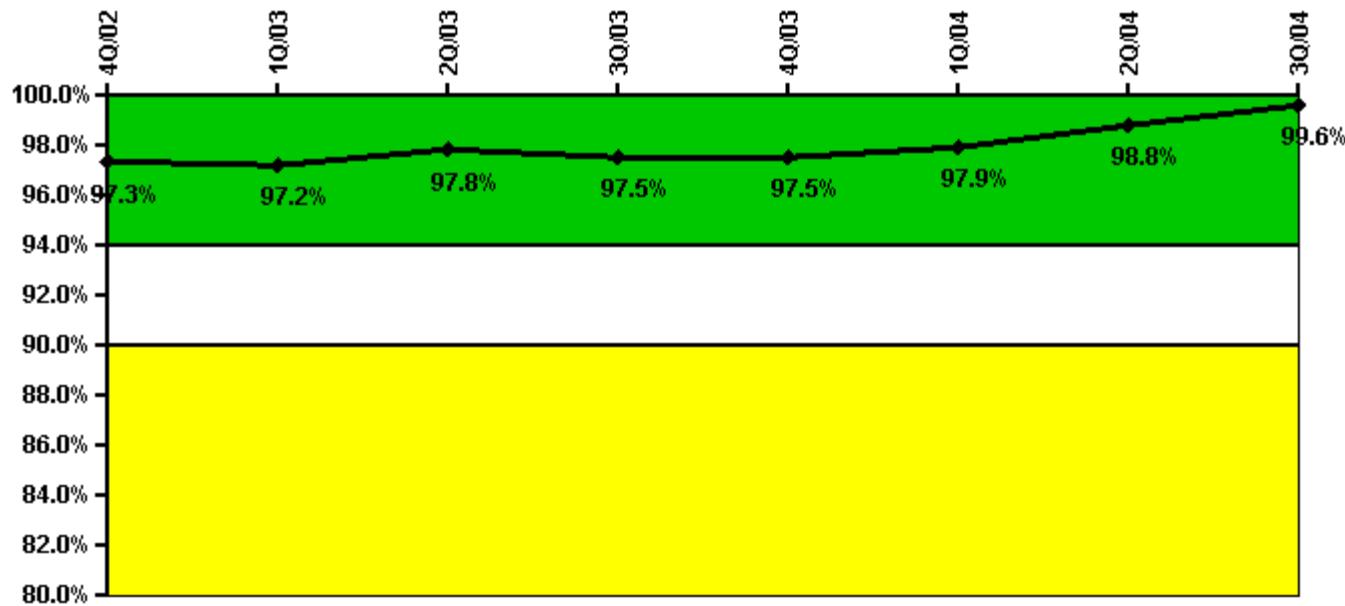
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Participating Key personnel	58.0	57.0	63.0	68.0	77.0	65.0	65.0	68.0
Total Key personnel	62.0	57.0	64.0	69.0	78.0	66.0	66.0	68.0
Indicator value	93.5%	100.0%	98.4%	98.6%	98.7%	98.5%	98.5%	100.0%

Licensee Comments: none

Alert & Notification System



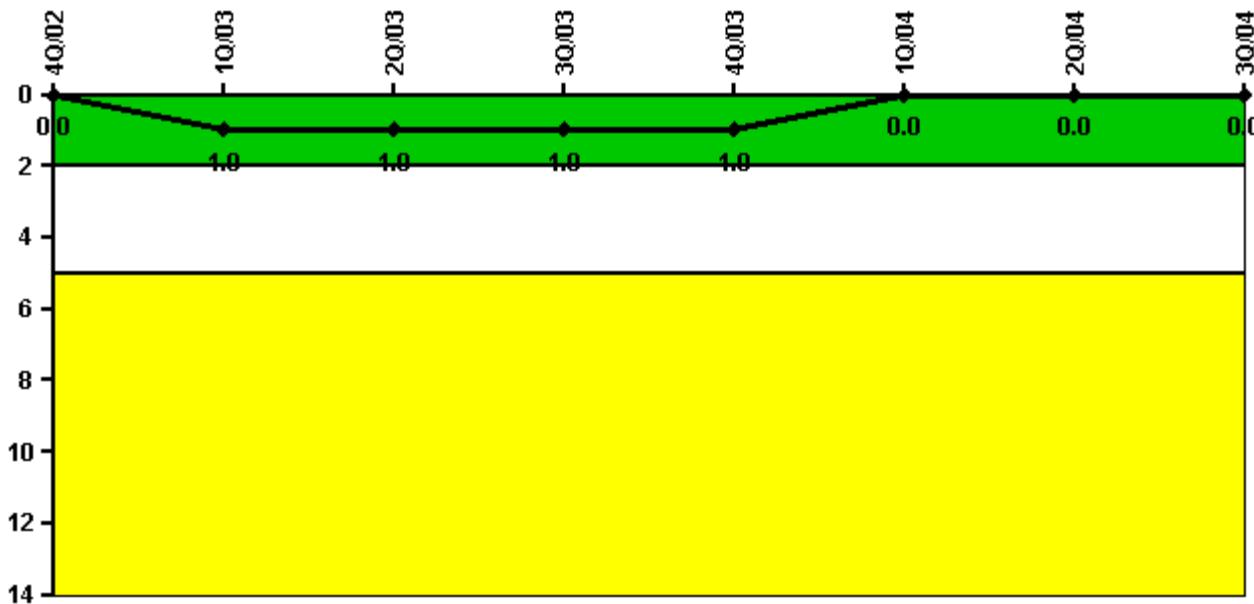
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful siren-tests	1007	914	1036	963	1007	935	934	934
Total sirens-tests	1019	930	1074	996	1019	936	936	936
Indicator value	97.3%	97.2%	97.8%	97.5%	97.5%	97.9%	98.8%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness

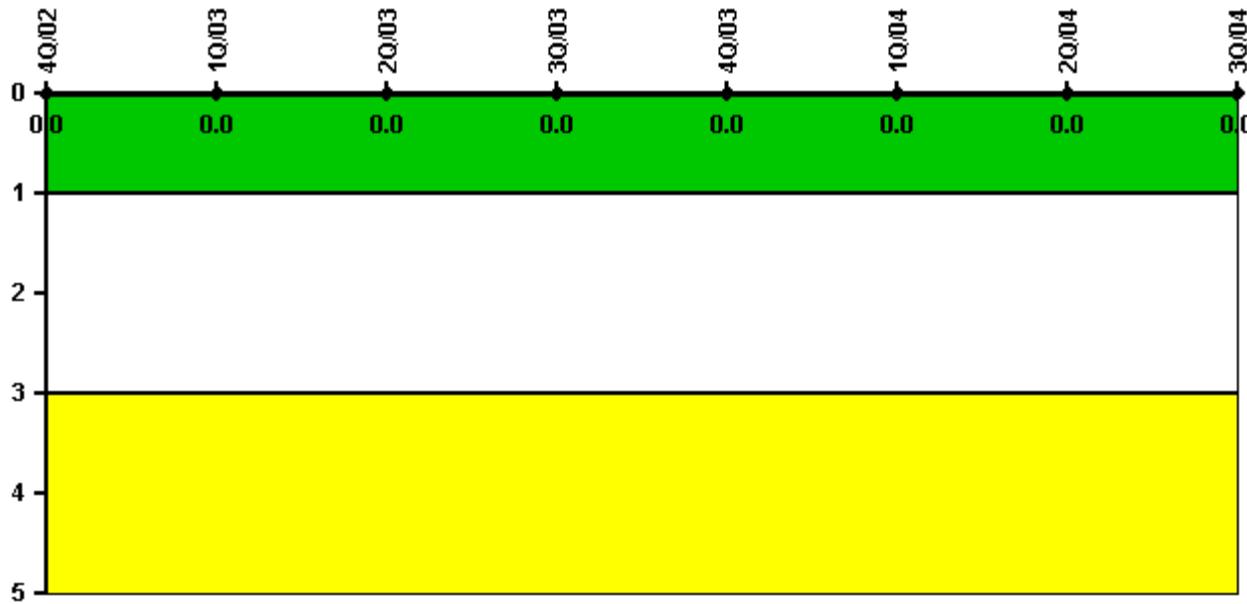


Thresholds: White > 2.0 Yellow > 5.0

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	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	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.

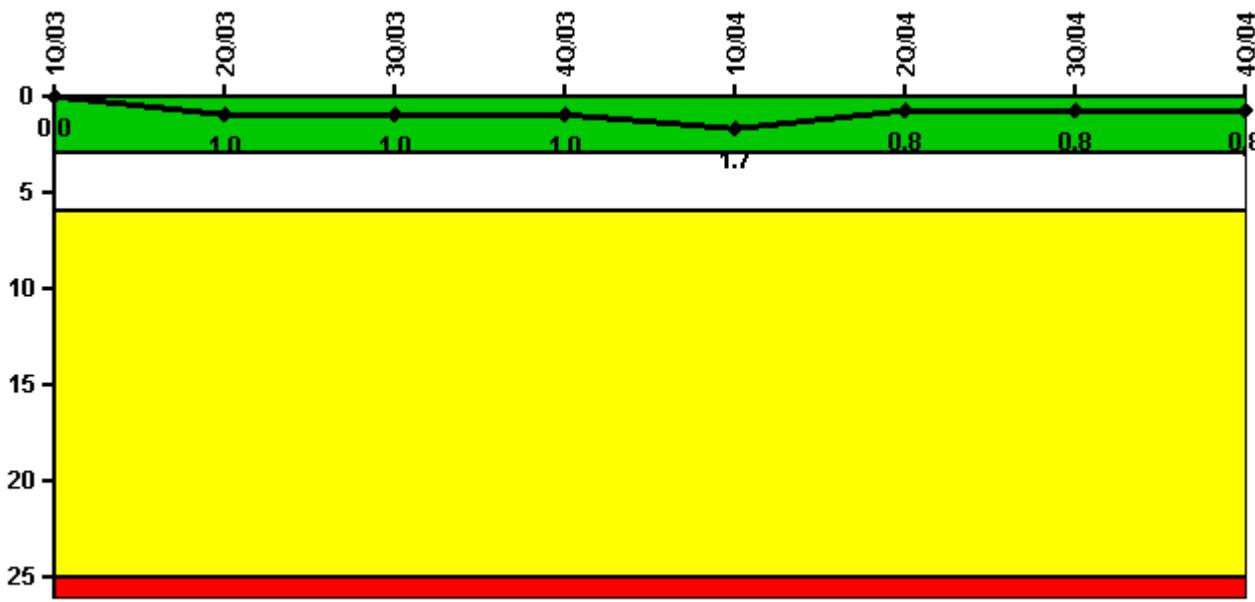


[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: October 25, 2004

Calvert Cliffs 2**4Q/2004 Performance Indicators**

Licensee's General Comments: none

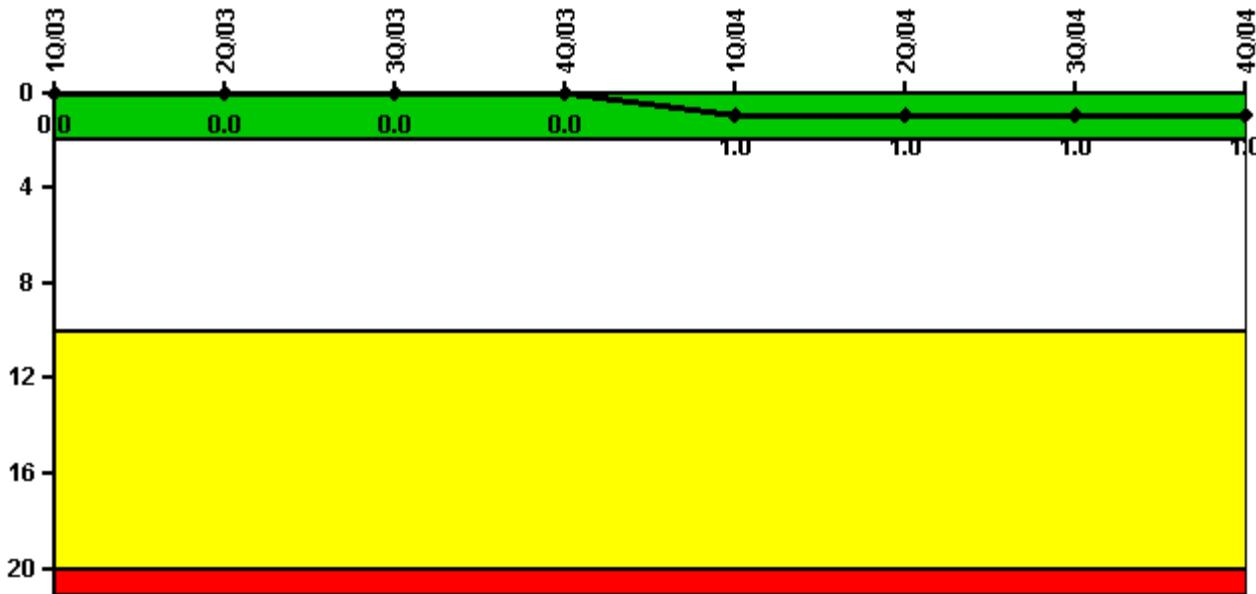
Unplanned Scrams per 7000 Critical Hrs

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	0	1.0	0	0	1.0	0	0	0
Critical hours	1079.4	1670.6	2208.0	2209.0	2134.4	2183.0	2208.0	2209.0
Indicator value	0	1.0	1.0	1.0	1.7	0.8	0.8	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

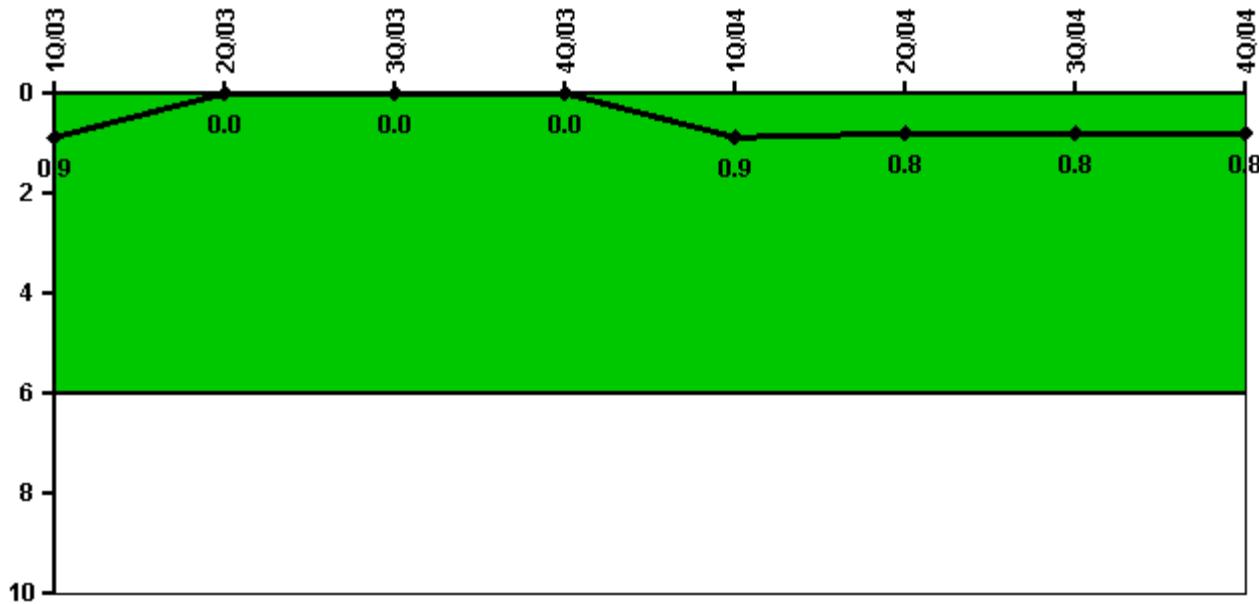
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
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: none

Unplanned Power Changes per 7000 Critical Hrs



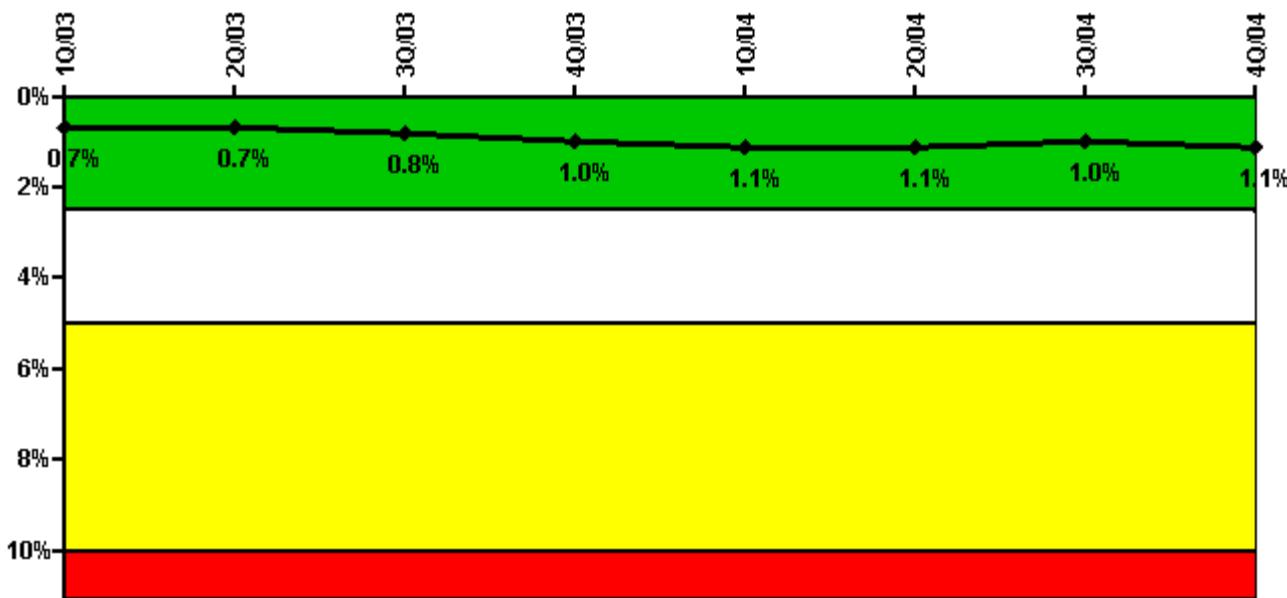
Thresholds: White > 6.0

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	0	0	0	0	1.0	0	0	0
Critical hours	1079.4	1670.6	2208.0	2209.0	2134.4	2183.0	2208.0	2209.0
Indicator value	0.9	0	0	0	0.9	0.8	0.8	0.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



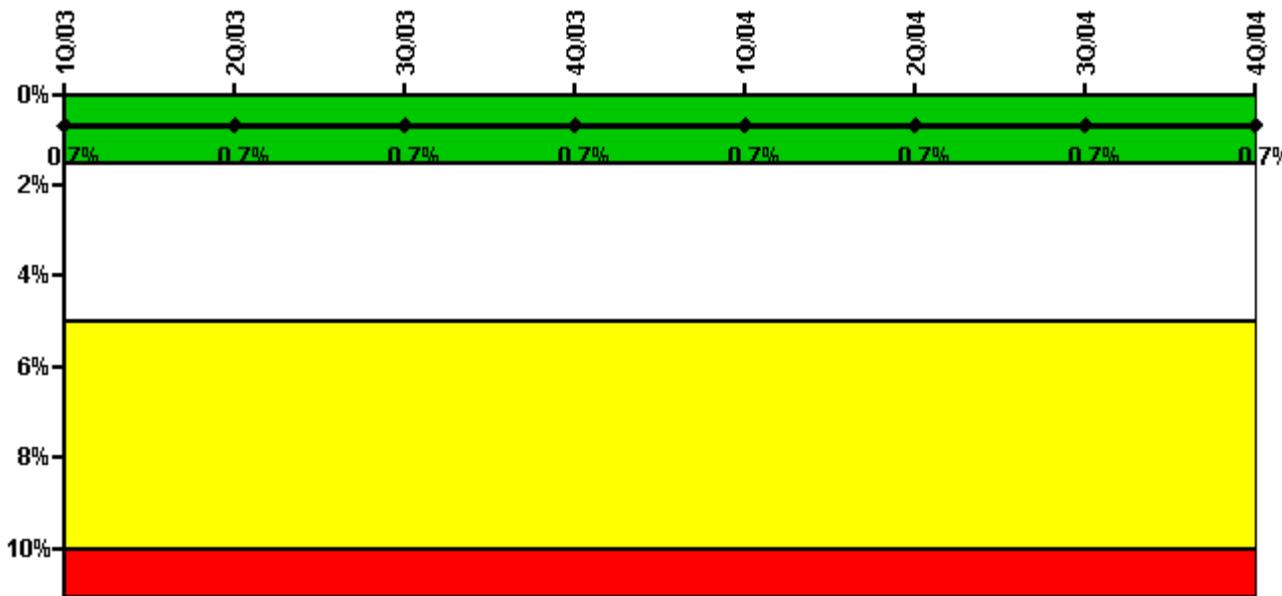
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

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	20.18	0	0	27.13	22.65	0	0	16.81
Unplanned unavailable hours	0	0	0	117.97	0	0	0	16.00
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	34.39	1.05	32.42	8.68	27.27	11.61	18.84	2.90
Unplanned unavailable hours	0	0	0	0	20.00	0.91	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	2184.00	2183.00	2208.00	2209.00
Indicator value	0.7%	0.7%	0.8%	1.0%	1.1%	1.1%	1.0%	1.1%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



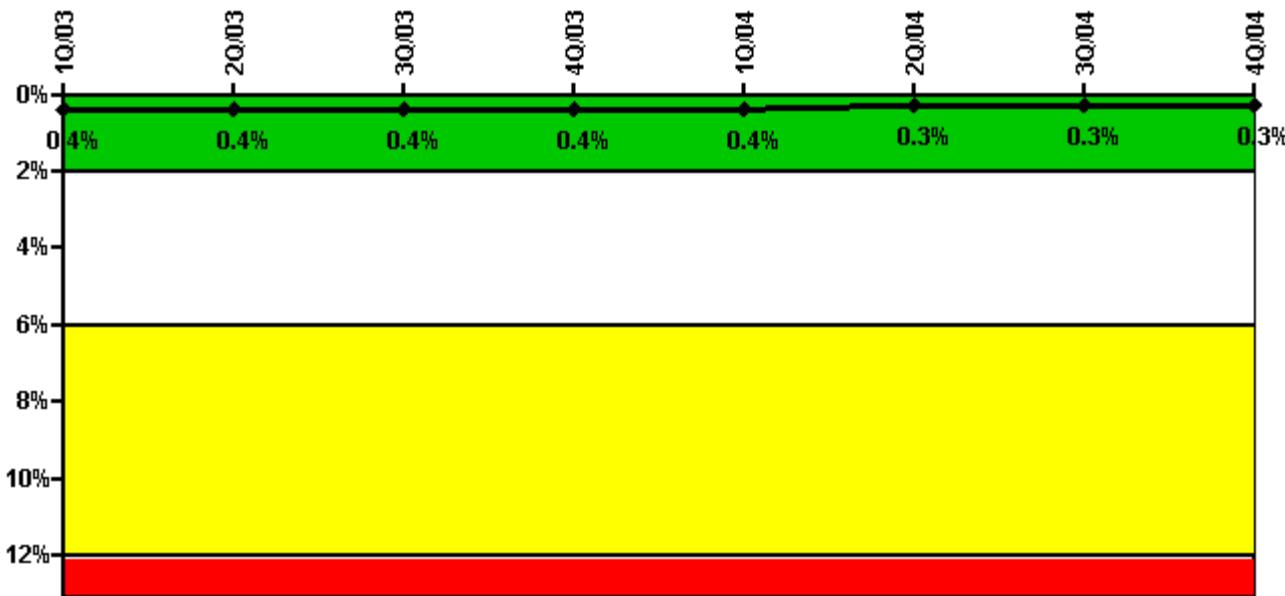
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	18.68	2.11	2.58	29.17	25.15	3.00	0.59	9.35
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	1079.40	1670.60	2208.00	2209.00	2134.40	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	33.78	3.98	35.00	2.04	31.72	3.00	24.01	1.00
Unplanned unavailable hours	3.40	0	0	0	0	0.33	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	1079.40	1670.60	2208.00	2209.00	2134.40	2183.00	2208.00	2209.00
Indicator value	0.7%							

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



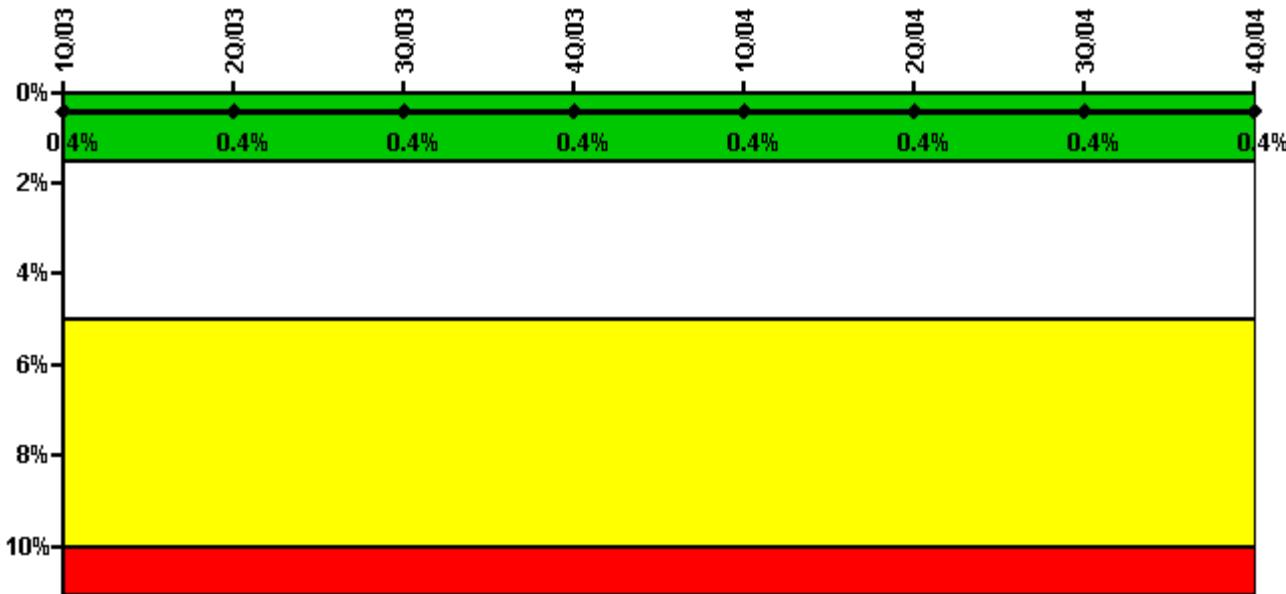
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	0	0.92	0	14.50	0.67	2.79	0.68	5.82
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	1079.40	1670.60	2208.00	2209.00	2134.40	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0	0.42	0.97	14.82	0.45	0	4.77	1.02
Unplanned unavailable hours	0	0	0	0	0	0	4.25	11.03
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1079.40	1670.60	2208.00	2209.00	2134.40	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0.52	0	0	0	4.57	0	43.08	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	1079.40	1670.60	2208.00	2209.00	2134.40	2183.00	2208.00	2209.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

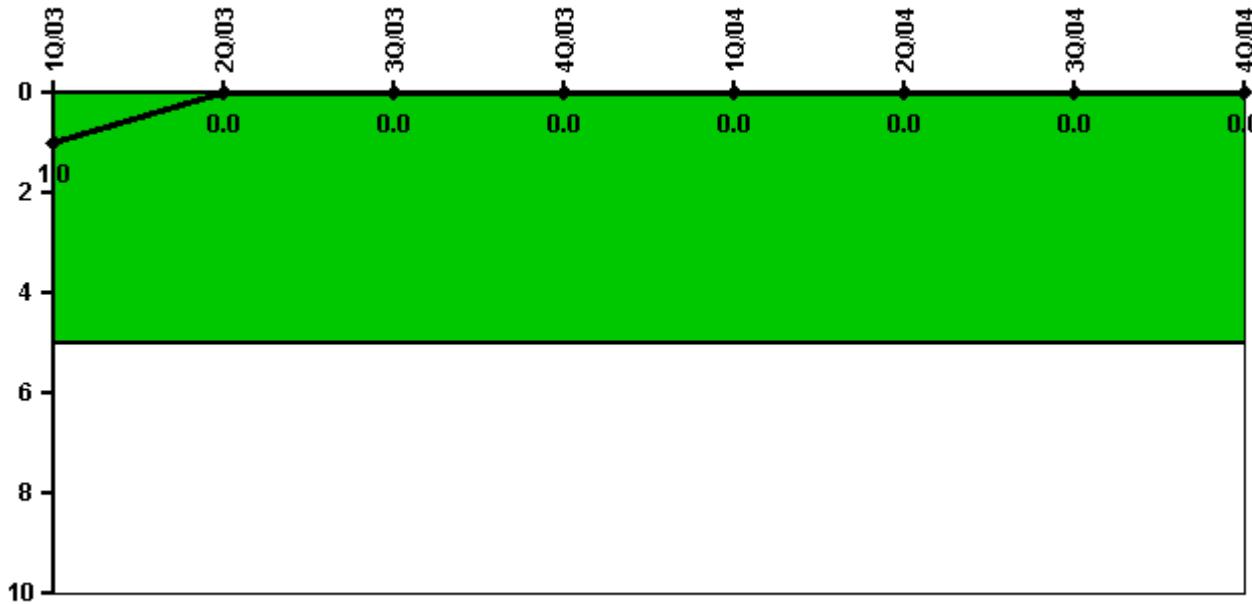


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Licensee Comments: none

Safety System Functional Failures (PWR)



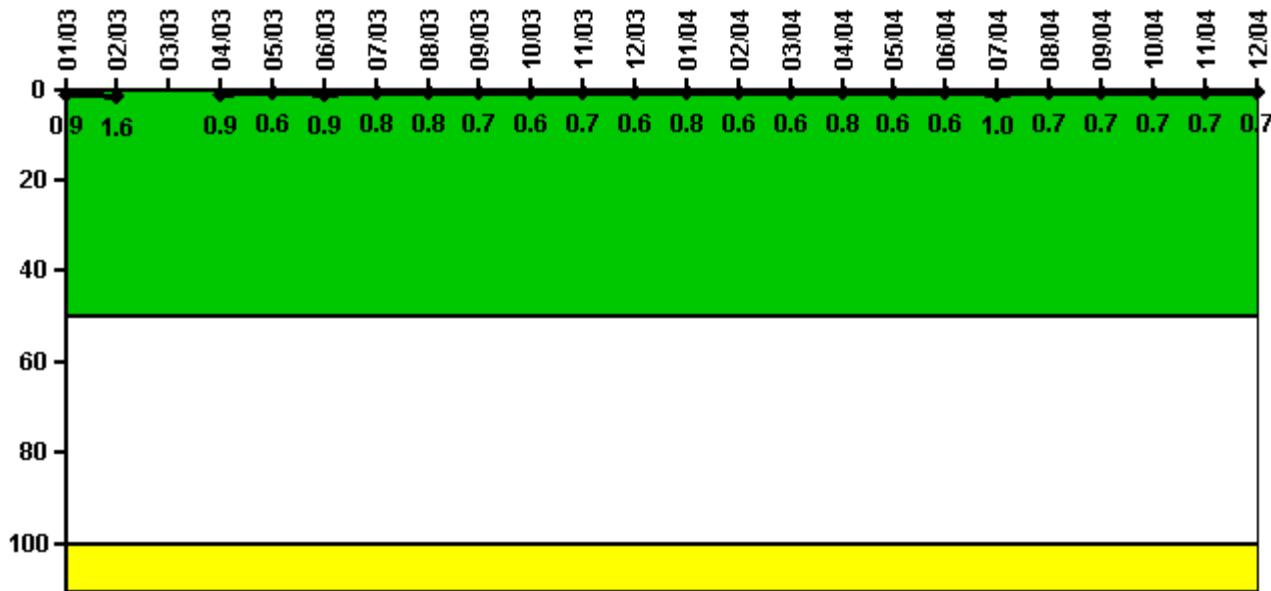
Thresholds: White > 5.0

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	0
Indicator value	1	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Activity



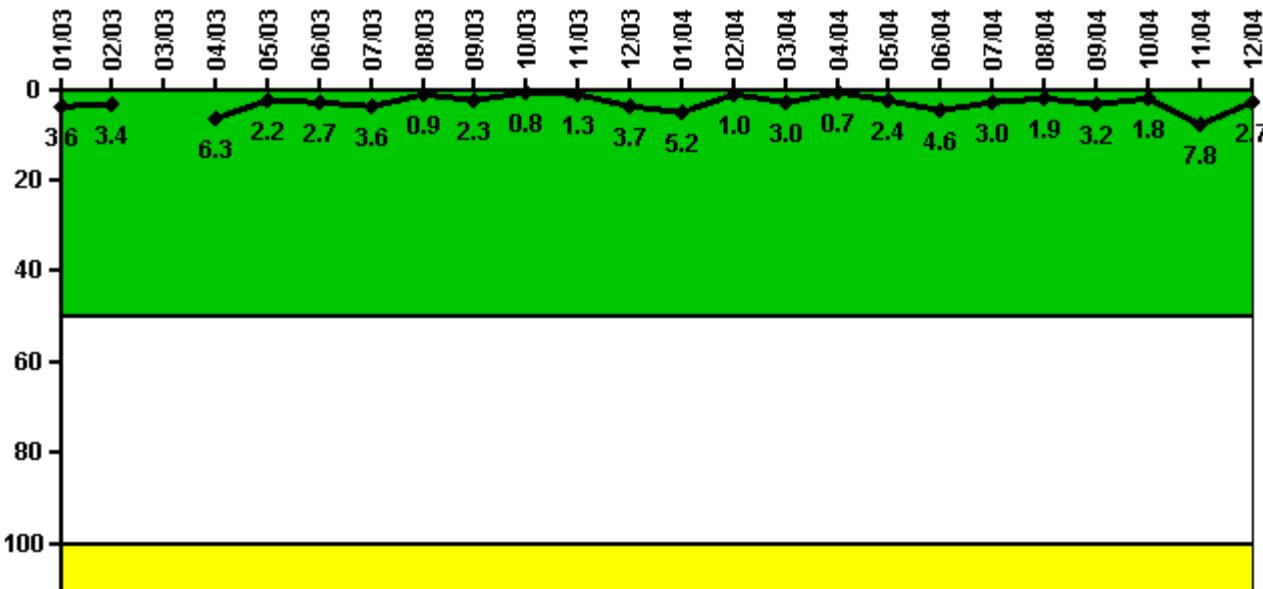
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity		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		0.008560	0.015900	N/A	0.009480	0.005990	0.008670	0.007940	0.007550	0.006680	0.006480	0.006510	0.006060
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		0.9	1.6	N/A	0.9	0.6	0.9	0.8	0.8	0.7	0.6	0.7	0.6
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		0.008230	0.006480	0.006130	0.007520	0.005780	0.006260	0.010300	0.007170	0.006560	0.007020	0.007020	0.006850
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		0.8	0.6	0.6	0.8	0.6	0.6	1.0	0.7	0.7	0.7	0.7	0.7

Licensee Comments: none

Reactor Coolant System Leakage



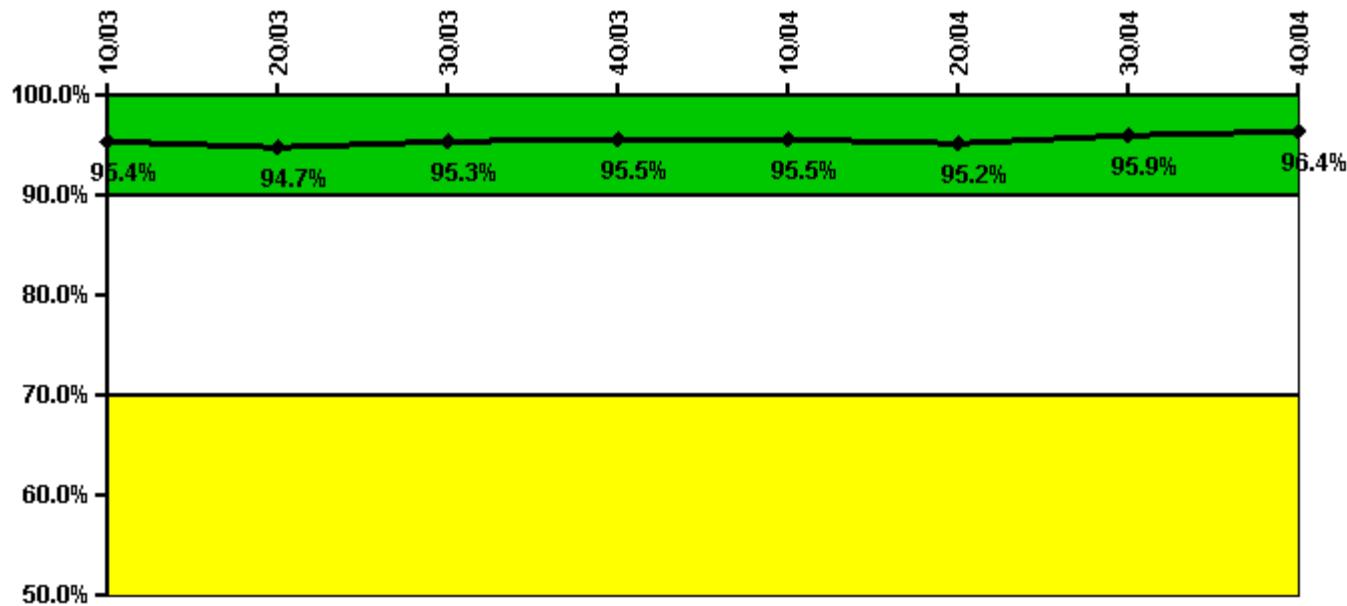
Thresholds: White > 50.0 Yellow > 100.0

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	0.360	0.340	N/A	0.630	0.220	0.270	0.357	0.094	0.228	0.077	0.129	0.367
Indicator value	3.6	3.4	N/A	6.3	2.2	2.7	3.6	0.9	2.3	0.8	1.3	3.7
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	0.520	0.100	0.300	0.070	0.240	0.460	0.300	0.190	0.320	0.176	0.783	0.269
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	5.2	1.0	3.0	0.7	2.4	4.6	3.0	1.9	3.2	1.8	7.8	2.7

Licensee Comments: none

Drill/Exercise Performance



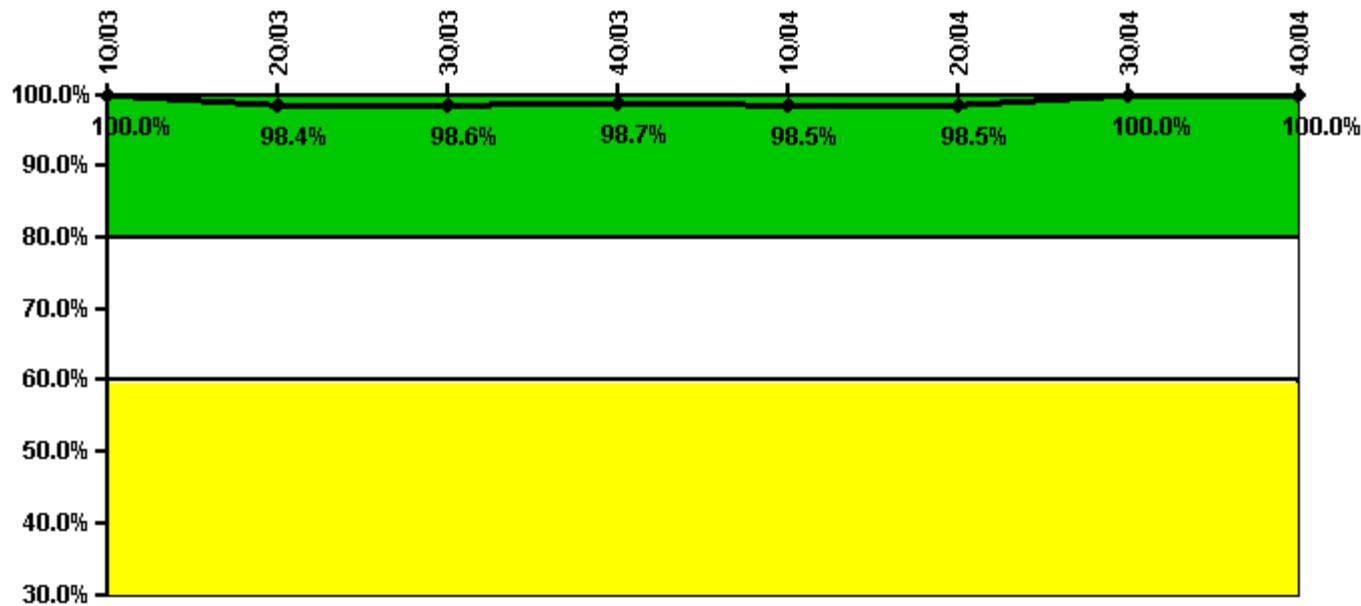
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful opportunities	9.0	14.0	29.0	56.0	18.0	14.0	26.0	72.0
Total opportunities	12.0	15.0	29.0	57.0	18.0	15.0	27.0	74.0
Indicator value	95.4%	94.7%	95.3%	95.5%	95.5%	95.2%	95.9%	96.4%

Licensee Comments: none

ERO Drill Participation



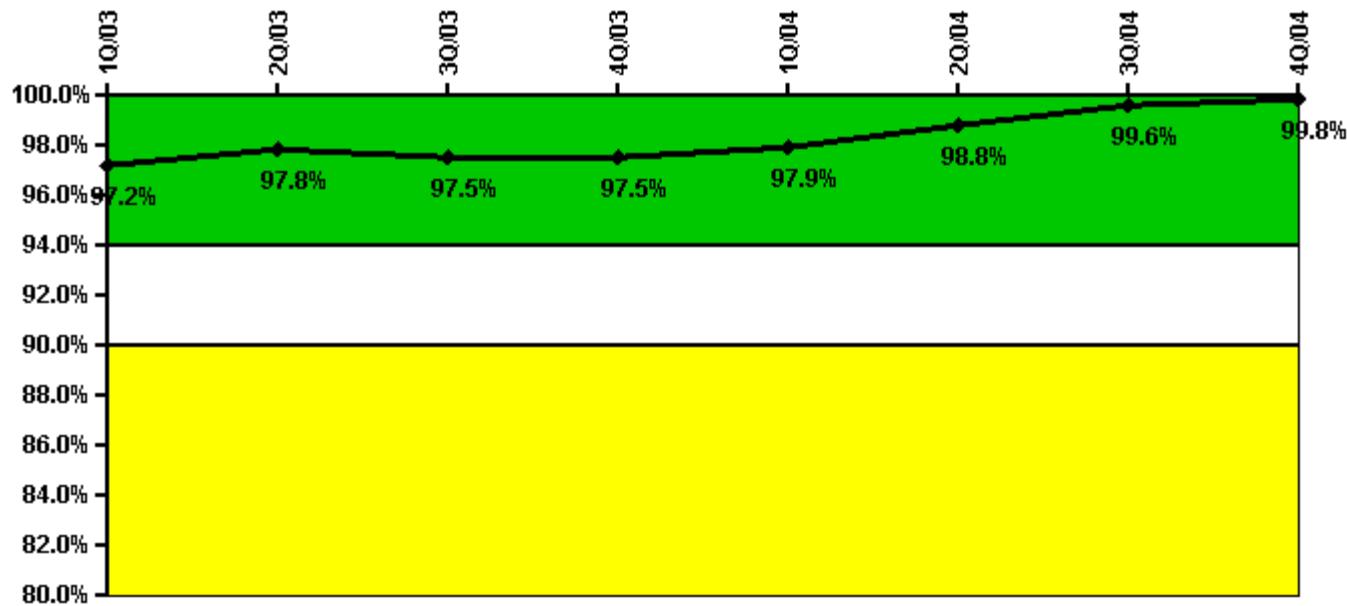
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Participating Key personnel	57.0	63.0	68.0	77.0	65.0	65.0	68.0	68.0
Total Key personnel	57.0	64.0	69.0	78.0	66.0	66.0	68.0	68.0
Indicator value	100.0%	98.4%	98.6%	98.7%	98.5%	98.5%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



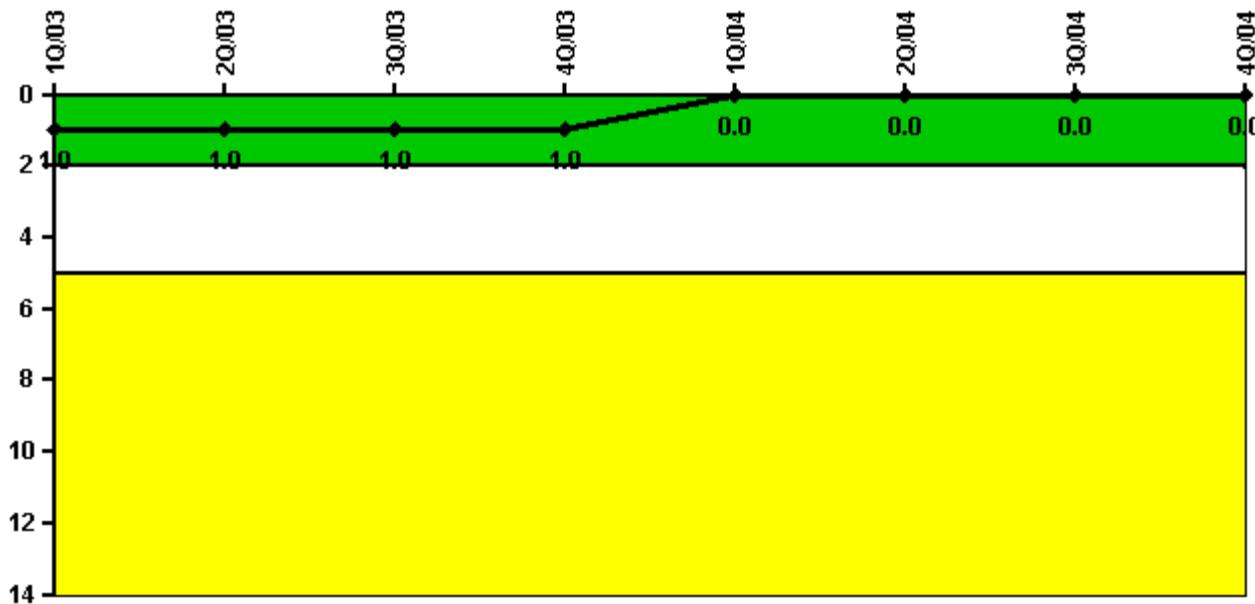
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful siren-tests	914	1036	963	1007	935	934	934	948
Total sirens-tests	930	1074	996	1019	936	936	936	949
Indicator value	97.2%	97.8%	97.5%	97.5%	97.9%	98.8%	99.6%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness

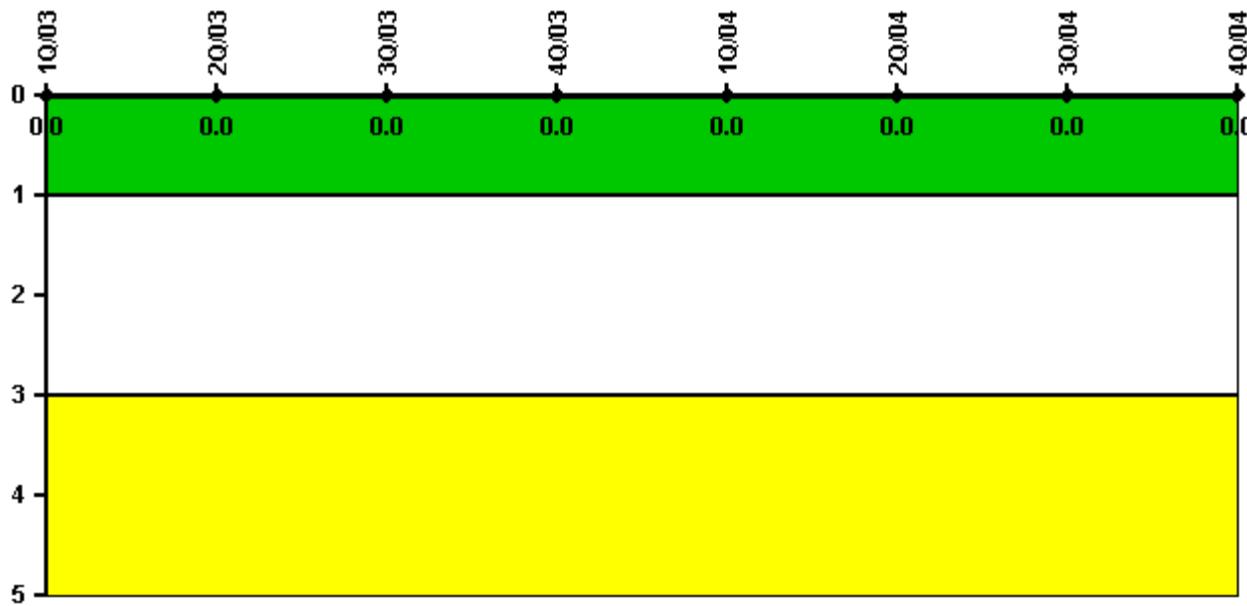


Thresholds: White > 2.0 Yellow > 5.0

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	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	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.

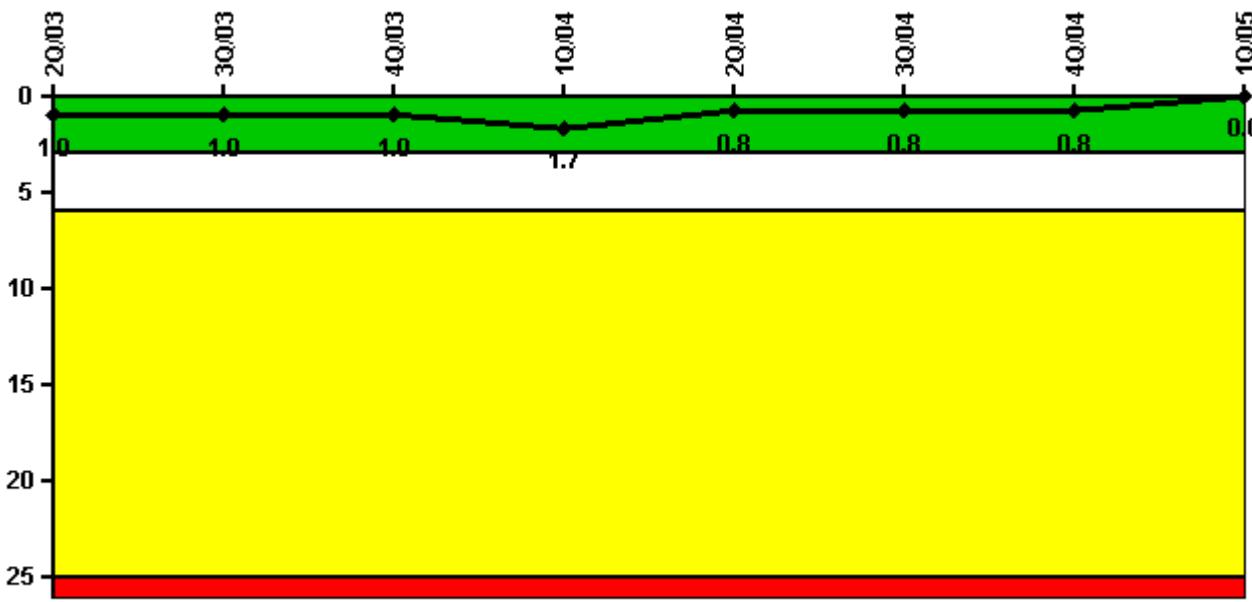


[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: March 9, 2005

Calvert Cliffs 2**1Q/2005 Performance Indicators**

Licensee's General Comments: none

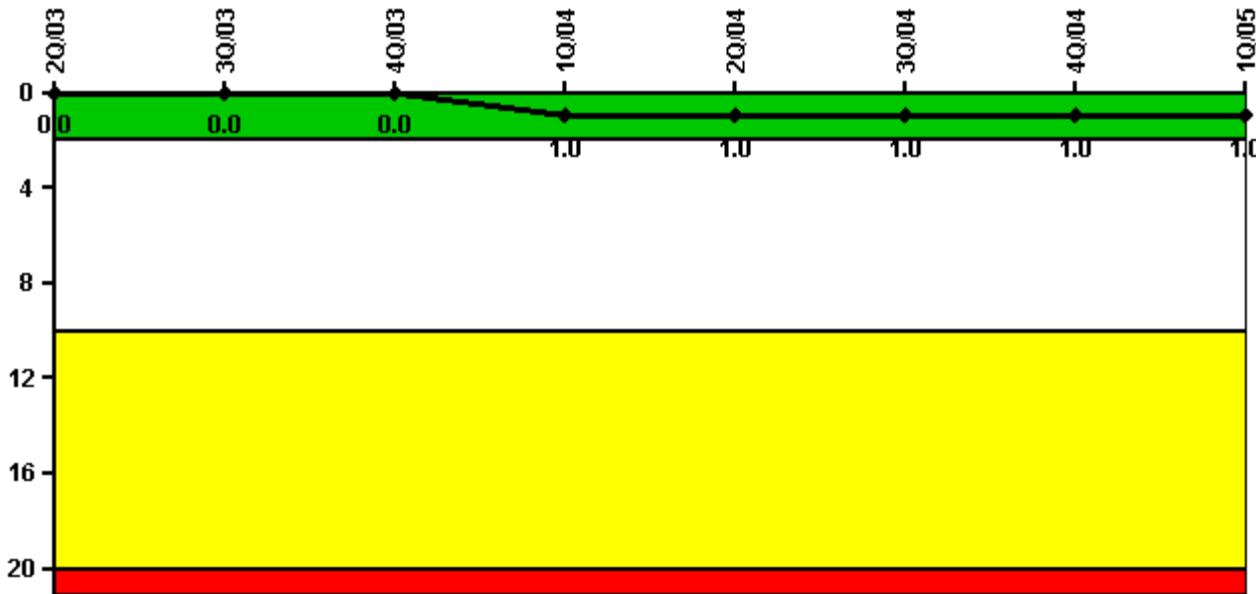
Unplanned Scrams per 7000 Critical Hrs

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	0	1.0	0	0	0	0
Critical hours	1670.6	2208.0	2209.0	2134.4	2183.0	2208.0	2209.0	1685.9
Indicator value	1.0	1.0	1.0	1.7	0.8	0.8	0.8	0

Licensee Comments: none

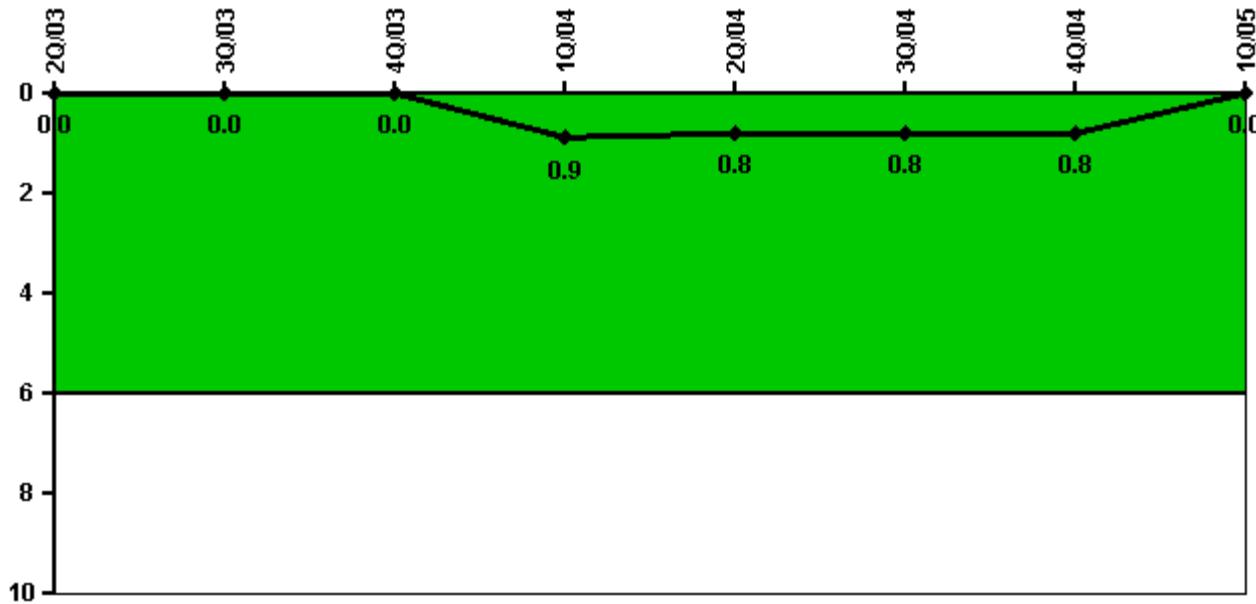
Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Scrams	0	0	0	1.0	0	0	0	0
Indicator value	0	0	0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

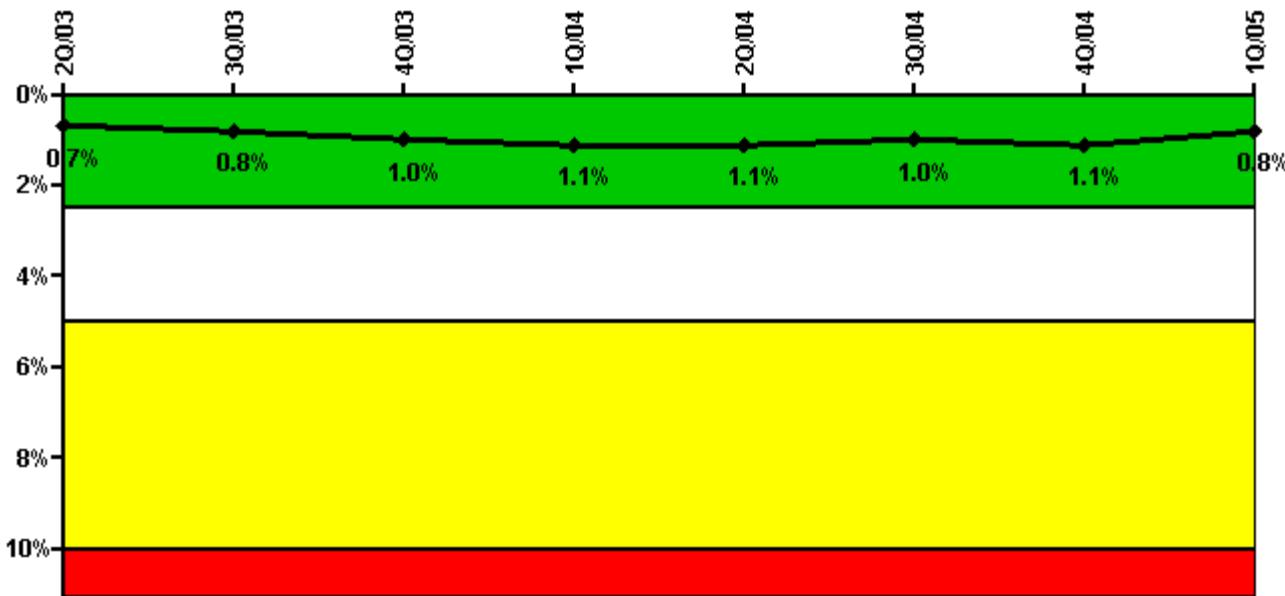
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	1670.6	2208.0	2209.0	2134.4	2183.0	2208.0	2209.0	1685.9
Indicator value	0	0	0	0.9	0.8	0.8	0.8	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



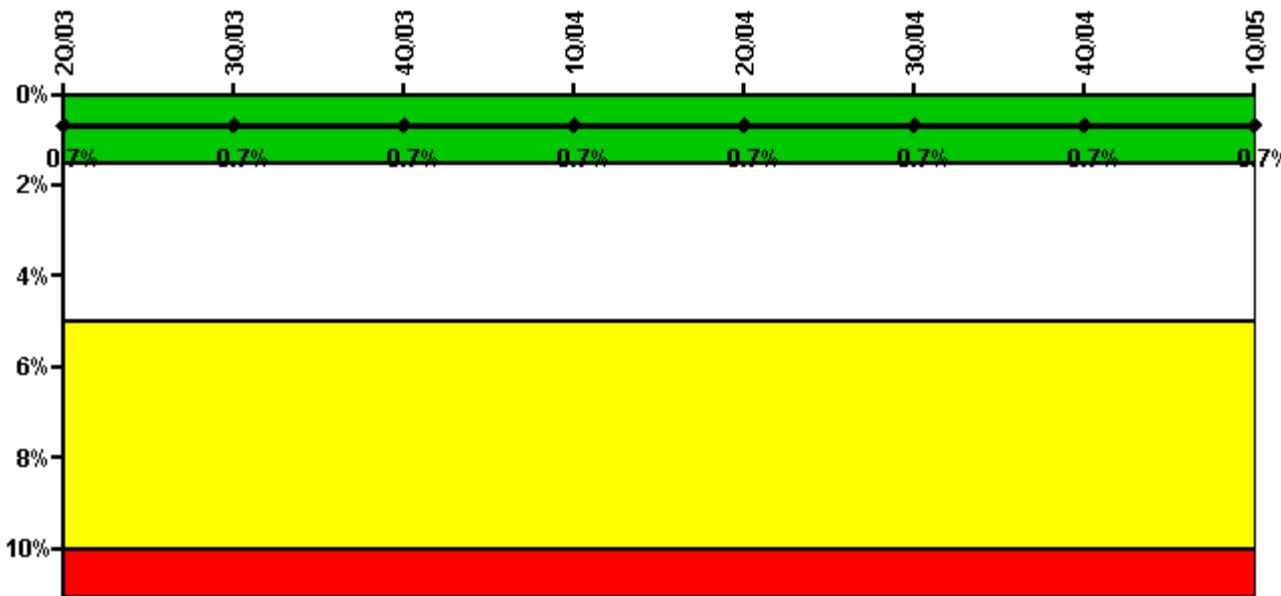
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

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	0	27.13	22.65	0	0	16.81	0
Unplanned unavailable hours	0	0	117.97	0	0	0	16.00	8.07
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	1.05	32.42	8.68	27.27	11.61	18.84	2.90	0
Unplanned unavailable hours	0	0	0	20.00	0.91	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	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	0.7%	0.8%	1.0%	1.1%	1.1%	1.0%	1.1%	0.8%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



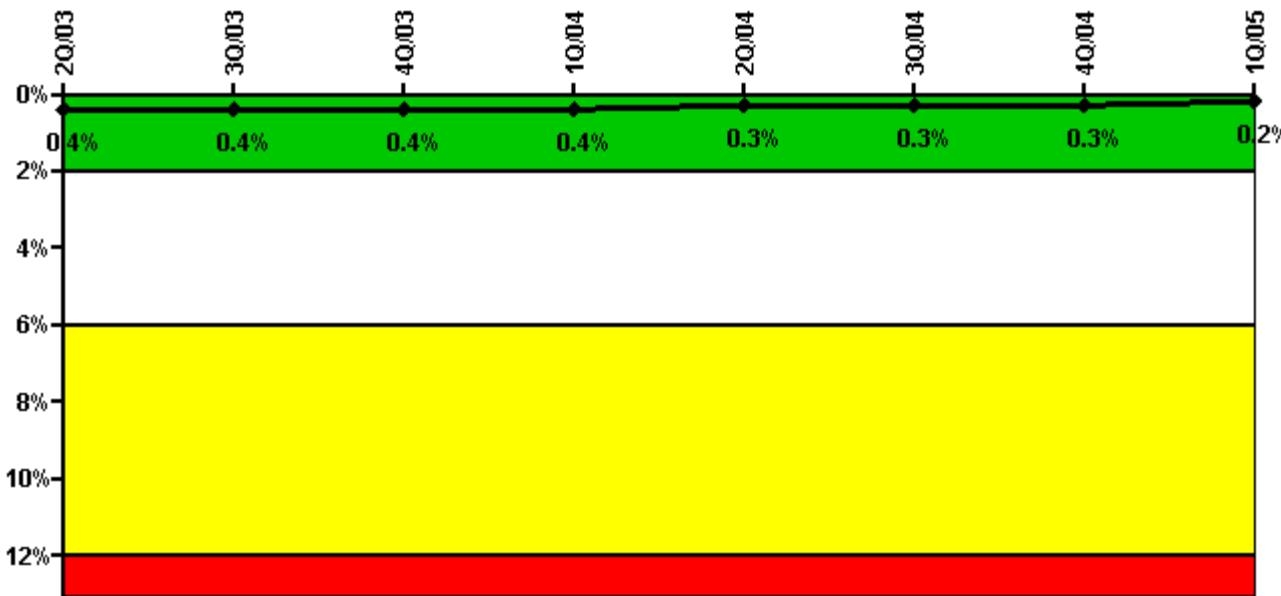
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	2.11	2.58	29.17	25.15	3.00	0.59	9.35	18.92
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	1670.60	2208.00	2209.00	2134.40	2183.00	2208.00	2209.00	1685.89
Train 2								
Planned unavailable hours	3.98	35.00	2.04	31.72	3.00	24.01	1.00	15.30
Unplanned unavailable hours	0	0	0	0	0.33	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	1670.60	2208.00	2209.00	2134.40	2183.00	2208.00	2209.00	1685.89
Indicator value	0.7%							

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



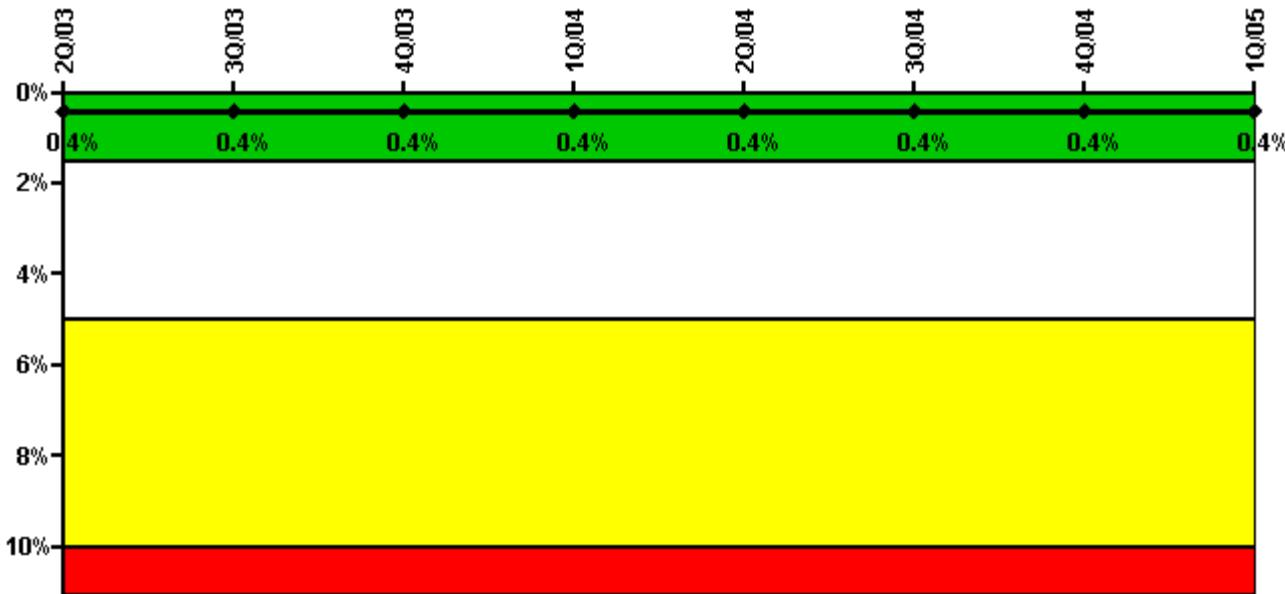
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	0.92	0	14.50	0.67	2.79	0.68	5.82	0.78
Unplanned unavailable hours	0	0	0	0	0	0	0	1.00
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1670.60	2208.00	2209.00	2134.40	2183.00	2208.00	2209.00	1685.89
Train 2								
Planned unavailable hours	0.42	0.97	14.82	0.45	0	4.77	1.02	0.43
Unplanned unavailable hours	0	0	0	0	0	4.25	11.03	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	1670.60	2208.00	2209.00	2134.40	2183.00	2208.00	2209.00	1685.89
Train 3								
Planned unavailable hours	0	0	0	4.57	0	43.08	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	1670.60	2208.00	2209.00	2134.40	2183.00	2208.00	2209.00	1685.89
Indicator value	0.4%	0.4%	0.4%	0.4%	0.3%	0.3%	0.3%	0.2%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

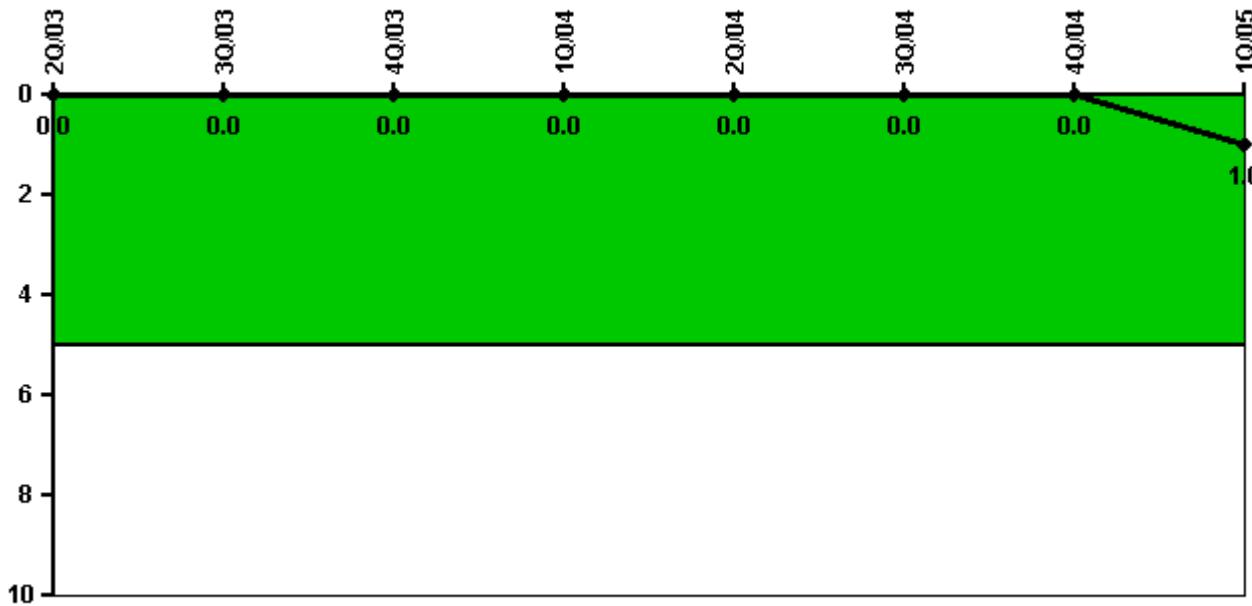


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Licensee Comments: none

Safety System Functional Failures (PWR)



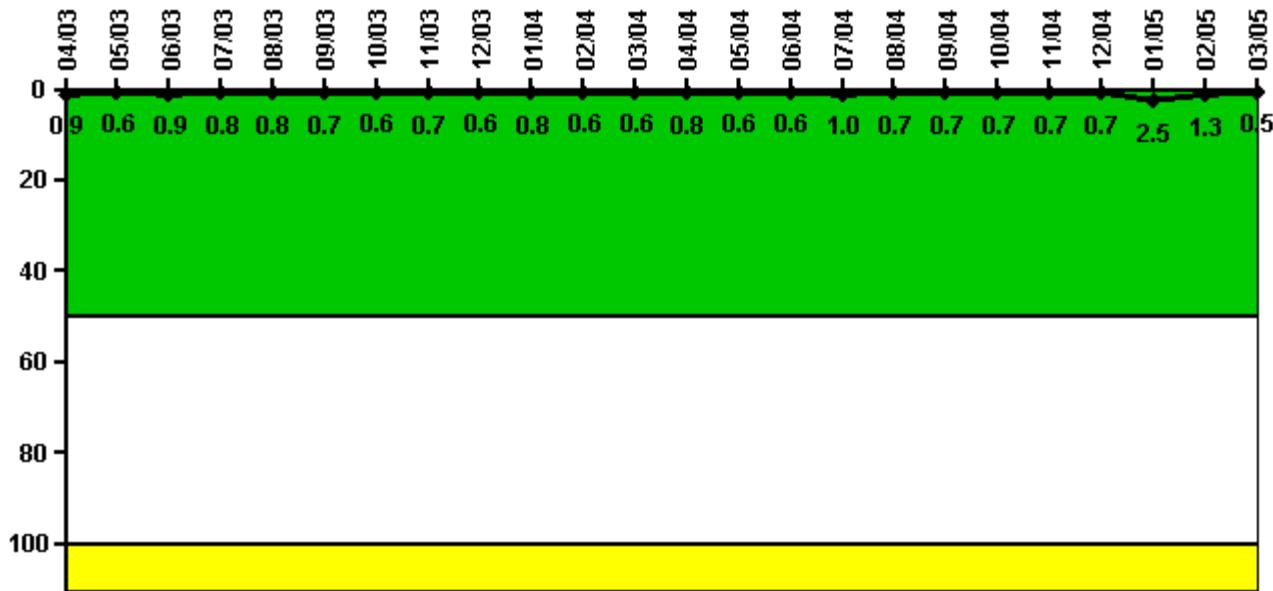
Thresholds: White > 5.0

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	0	1
Indicator value	0	0	0	0	0	0	0	1

Licensee Comments: none

Reactor Coolant System Activity



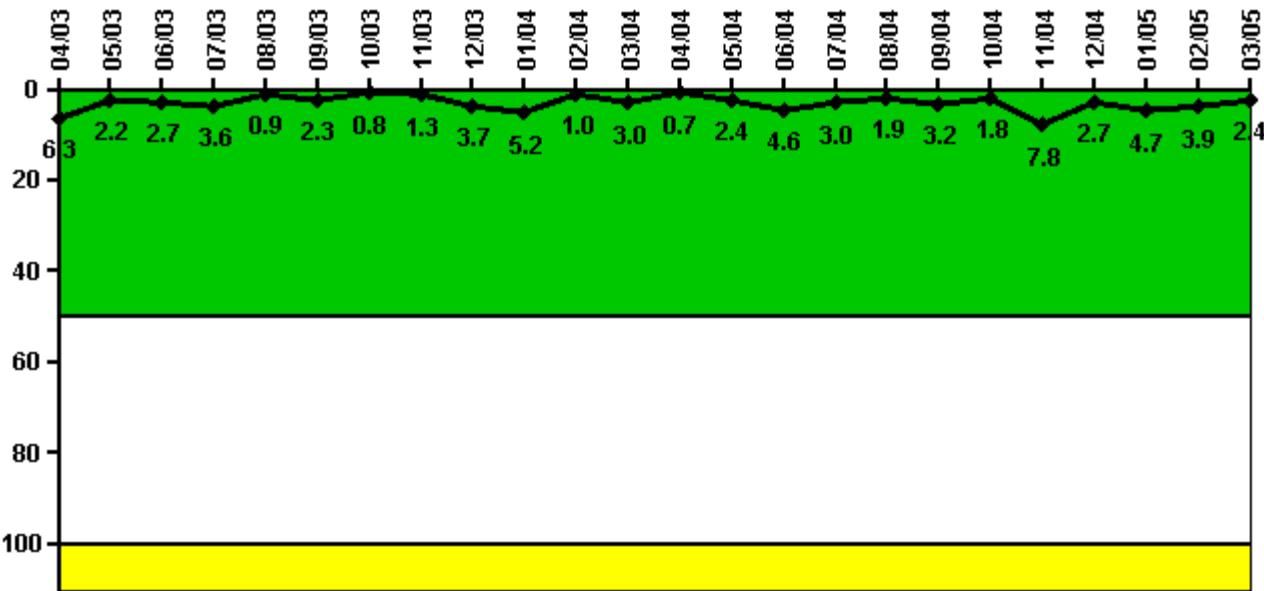
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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	0.009480	0.005990	0.008670	0.007940	0.007550	0.006680	0.006480	0.006510	0.006060	0.008230	0.006480	0.006130
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	0.9	0.6	0.9	0.8	0.8	0.7	0.6	0.7	0.6	0.8	0.6	0.6
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	0.007520	0.005780	0.006260	0.010300	0.007170	0.006560	0.007020	0.007020	0.006850	0.025100	0.012700	0.005490
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	0.8	0.6	0.6	1.0	0.7	0.7	0.7	0.7	0.7	2.5	1.3	0.5

Licensee Comments: none

Reactor Coolant System Leakage



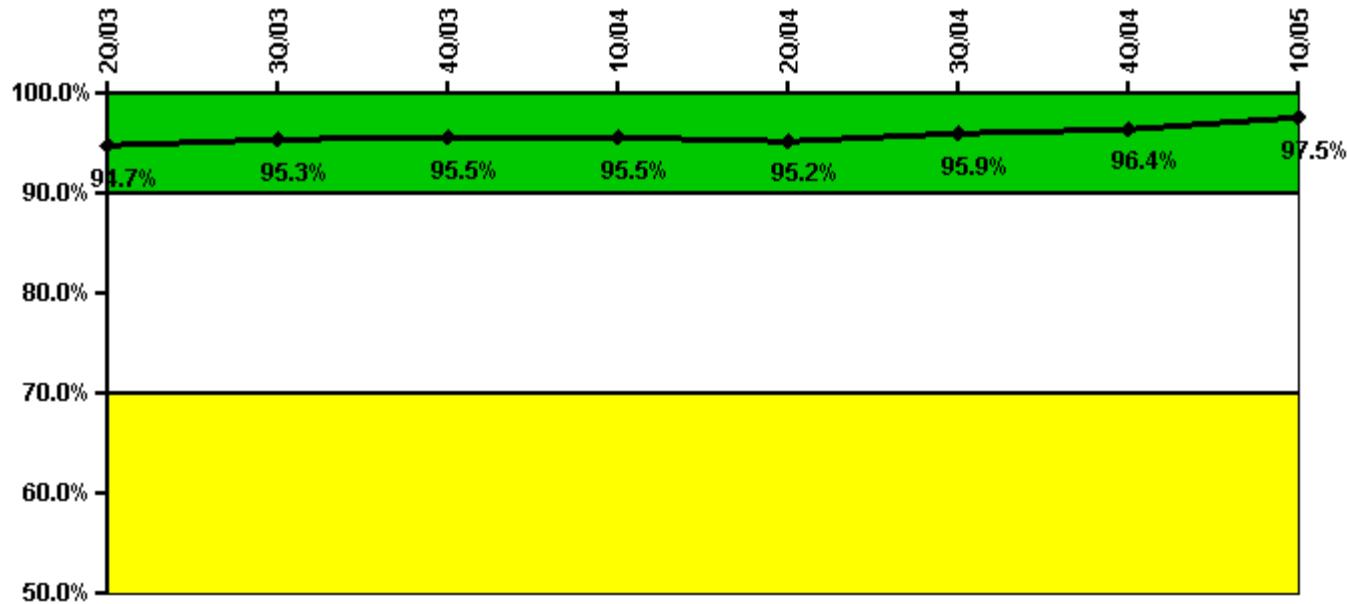
Thresholds: White > 50.0 Yellow > 100.0

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	0.630	0.220	0.270	0.357	0.094	0.228	0.077	0.129	0.367	0.520	0.100	0.300
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	6.3	2.2	2.7	3.6	0.9	2.3	0.8	1.3	3.7	5.2	1.0	3.0
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	0.070	0.240	0.460	0.300	0.190	0.320	0.176	0.783	0.269	0.470	0.392	0.236
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	0.7	2.4	4.6	3.0	1.9	3.2	1.8	7.8	2.7	4.7	3.9	2.4

Licensee Comments: none

Drill/Exercise Performance

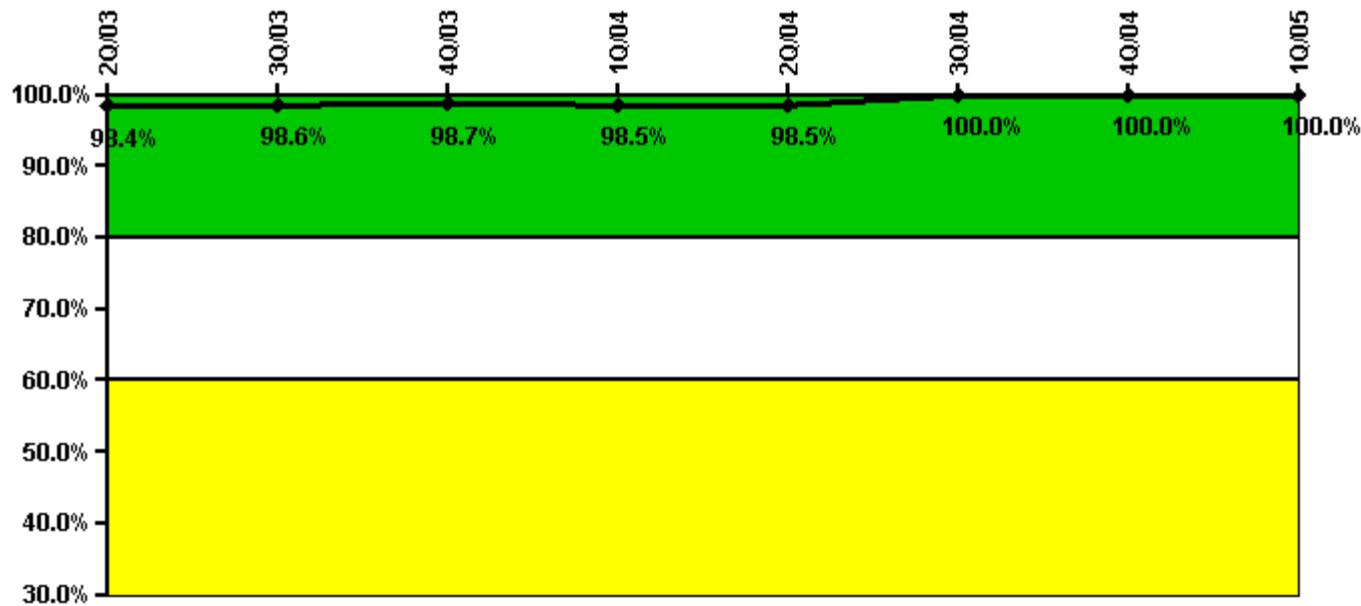


Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful opportunities	14.0	29.0	56.0	18.0	14.0	26.0	72.0	1.0
Total opportunities	15.0	29.0	57.0	18.0	15.0	27.0	74.0	1.0
Indicator value	94.7%	95.3%	95.5%	95.5%	95.2%	95.9%	96.4%	97.5%

Licensee Comments: none

ERO Drill Participation

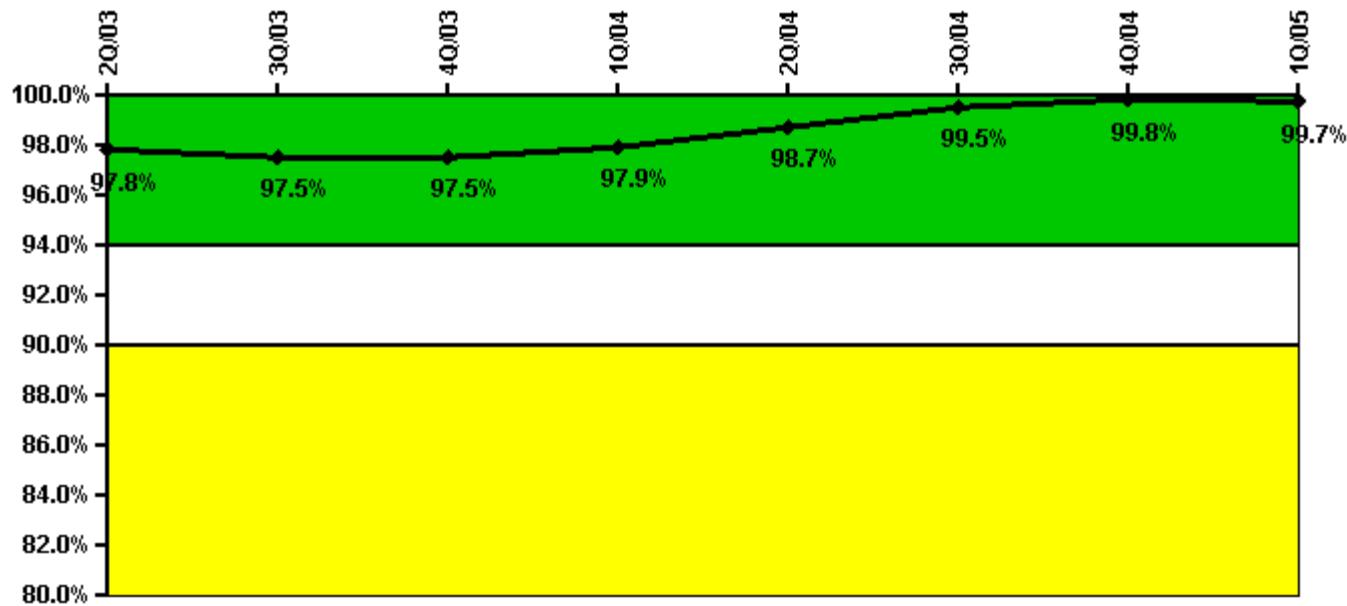
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Participating Key personnel	63.0	68.0	77.0	65.0	65.0	68.0	68.0	65.0
Total Key personnel	64.0	69.0	78.0	66.0	66.0	68.0	68.0	65.0
Indicator value	98.4%	98.6%	98.7%	98.5%	98.5%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



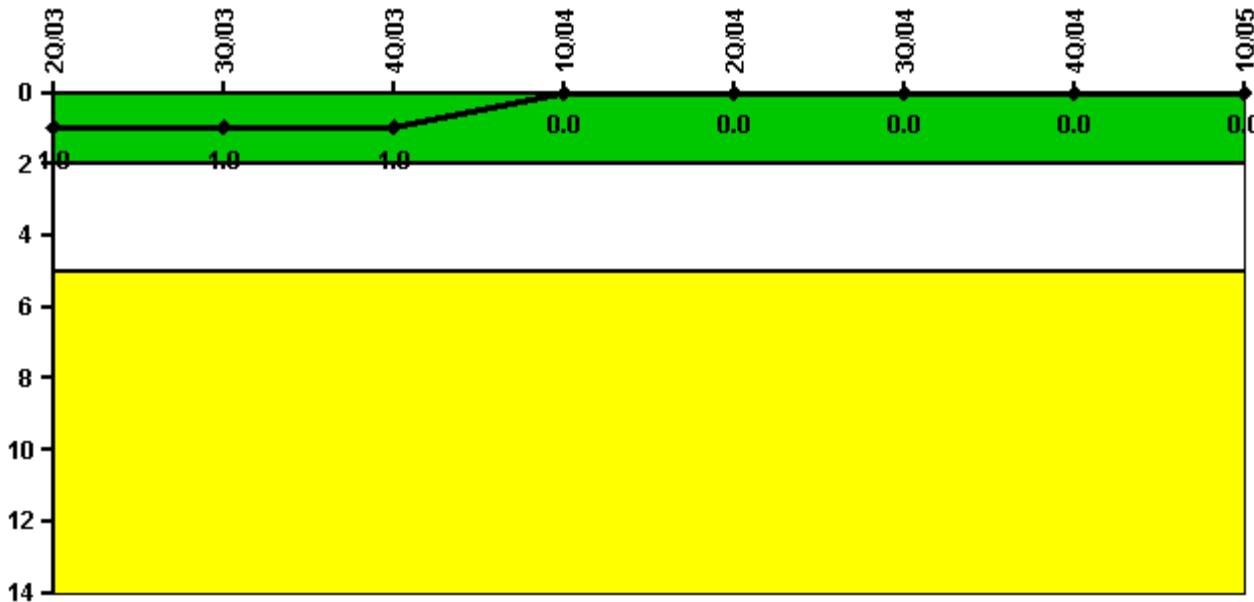
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful siren-tests	1036	963	1007	935	932	934	948	944
Total sirens-tests	1074	996	1019	936	936	936	949	949
Indicator value	97.8%	97.5%	97.5%	97.9%	98.7%	99.5%	99.8%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness

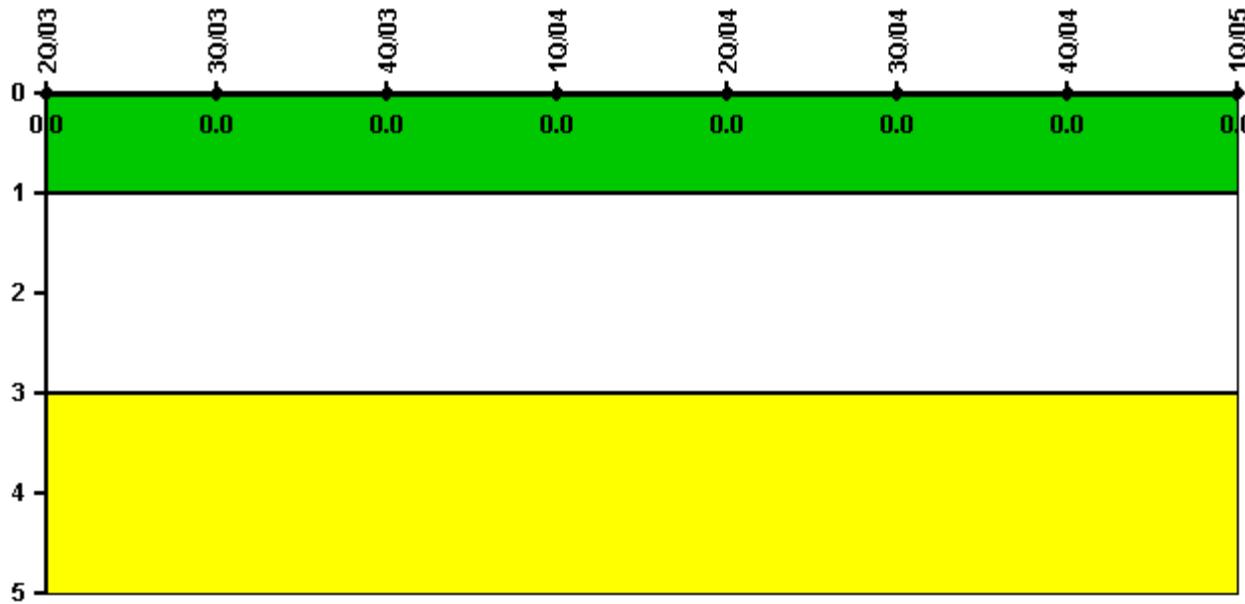


Thresholds: White > 2.0 Yellow > 5.0

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	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	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	0	0	0	0	0	0	0

Licensee Comments: none

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

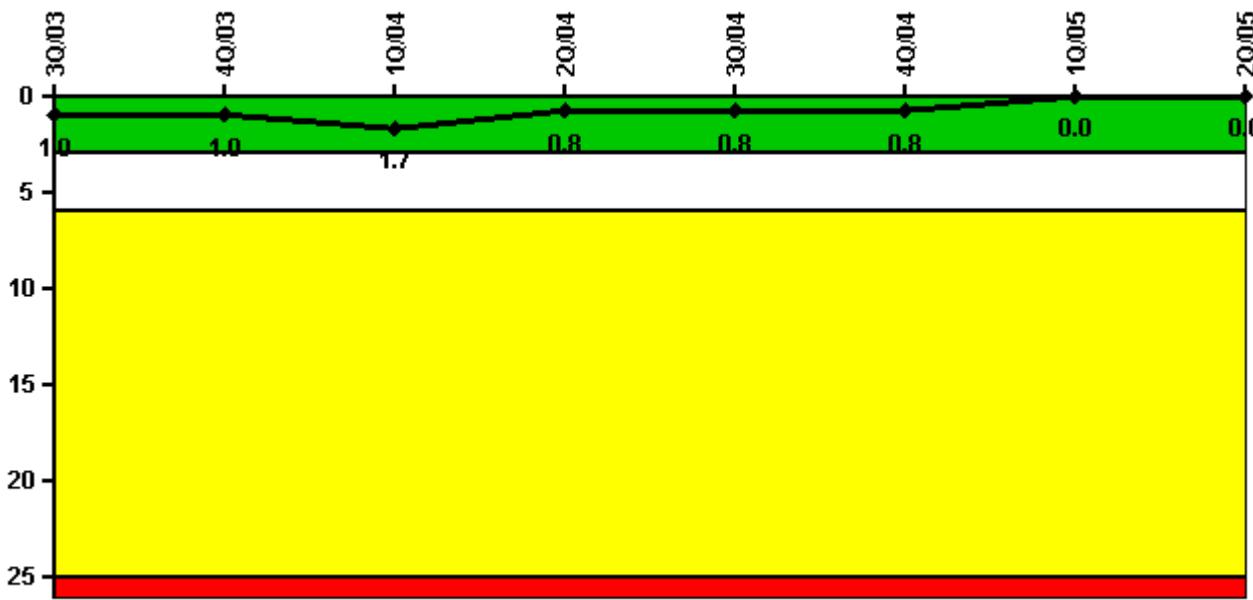


[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: June 17, 2005

Calvert Cliffs 2**2Q/2005 Performance Indicators**

Licensee's General Comments: none

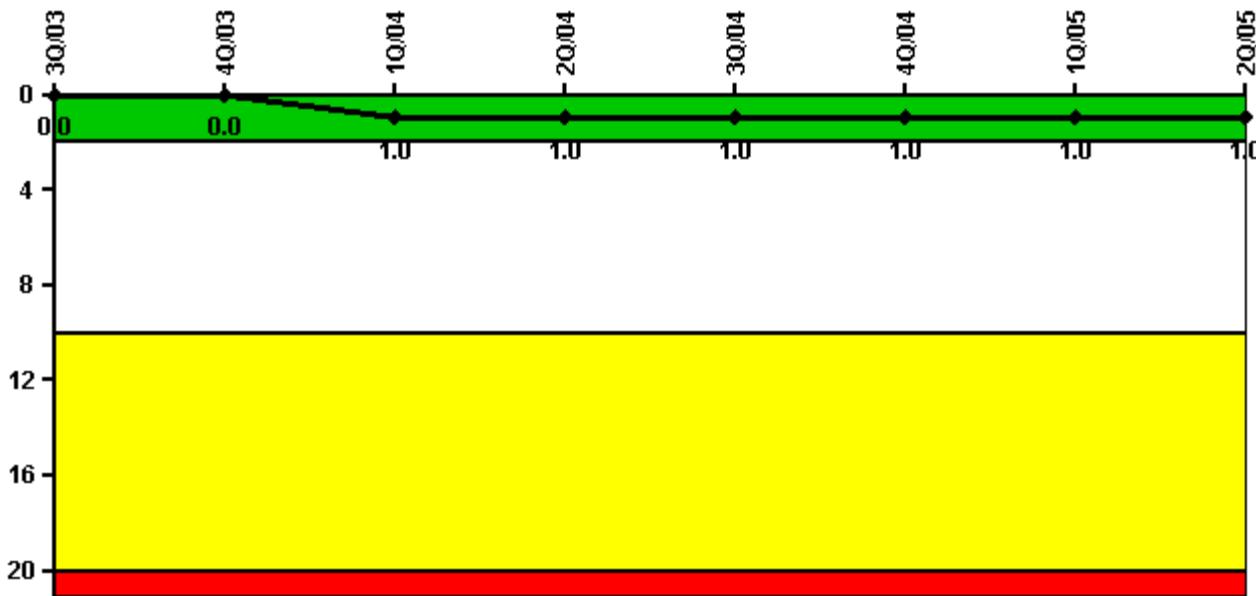
Unplanned Scrams per 7000 Critical Hrs

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	0	1.0	0	0	0	0	0
Critical hours	2208.0	2209.0	2134.4	2183.0	2208.0	2209.0	1685.9	2183.0
Indicator value	1.0	1.0	1.7	0.8	0.8	0.8	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

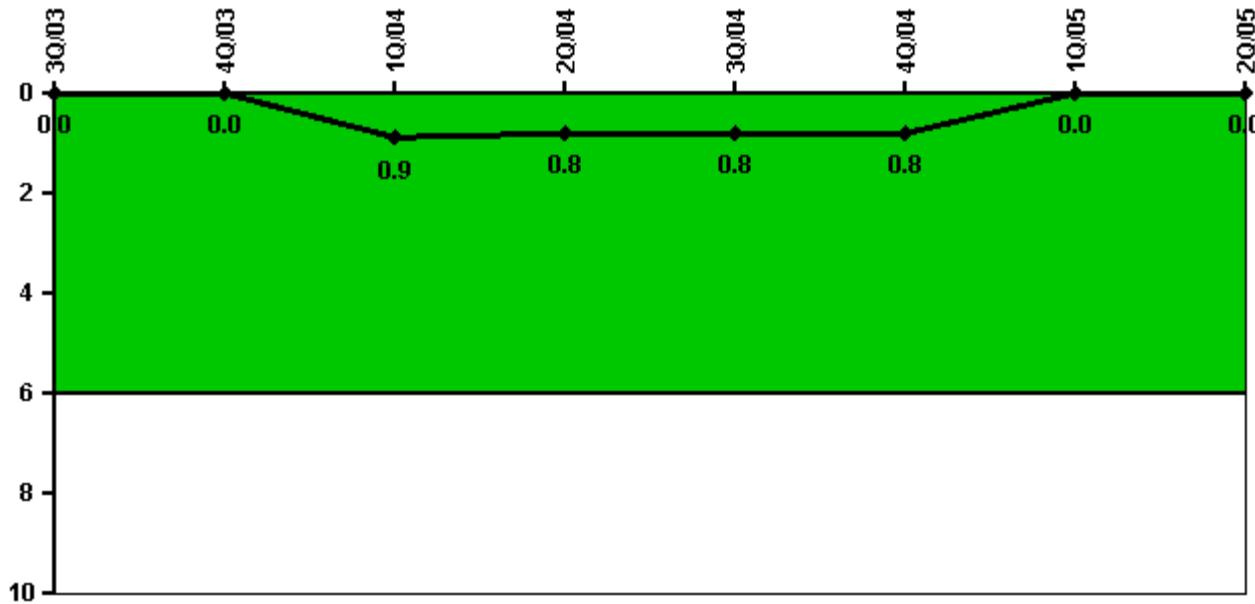
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Scrams	0	0	1.0	0	0	0	0	0
Indicator value	0	0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



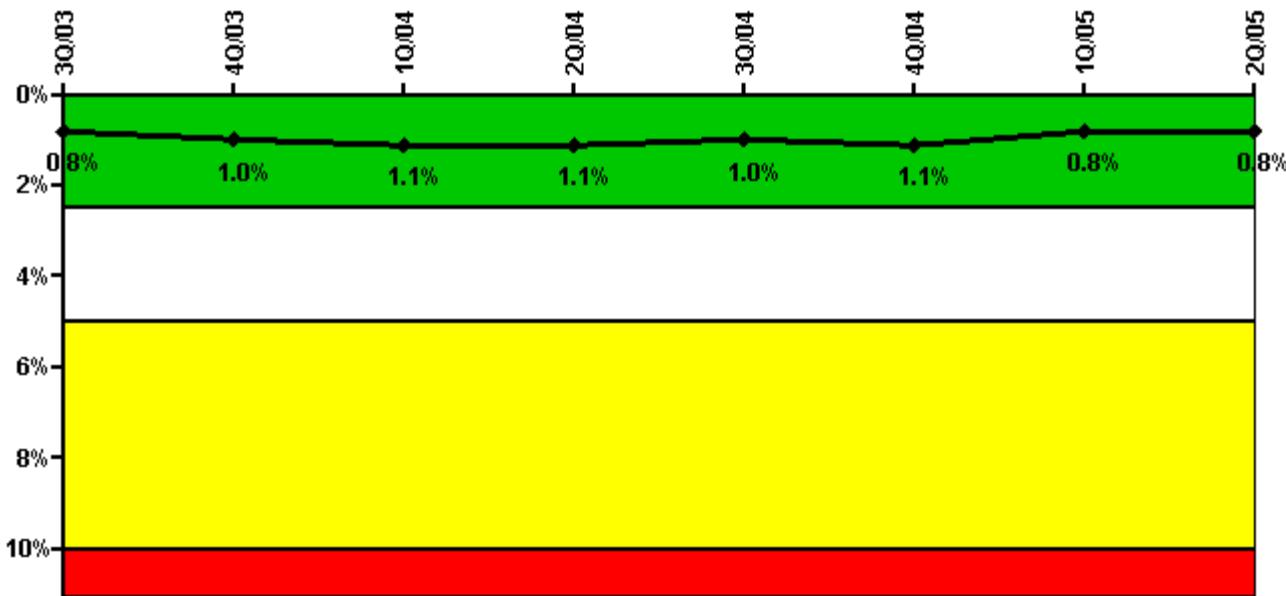
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	2208.0	2209.0	2134.4	2183.0	2208.0	2209.0	1685.9	2183.0
Indicator value	0	0	0.9	0.8	0.8	0.8	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	0	27.13	22.65	0	0	16.81	0	1.50
Unplanned unavailable hours	0	117.97	0	0	0	16.00	8.07	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	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	32.42	8.68	27.27	11.61	18.84	2.90	0	13.35
Unplanned unavailable hours	0	0	20.00	0.91	0	0	0	0.25
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	2209.00	2160.00	2183.00
Indicator value	0.8%	1.0%	1.1%	1.1%	1.0%	1.1%	0.8%	0.8%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



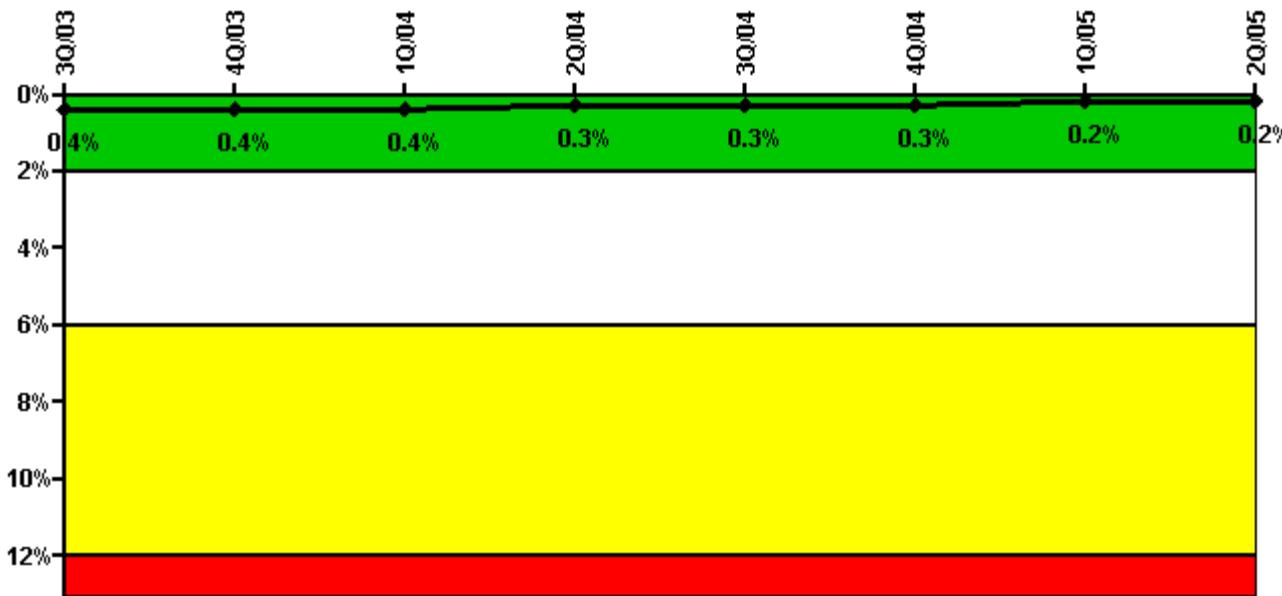
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	2.58	29.17	25.15	3.00	0.59	9.35	18.92	3.38
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	2134.40	2183.00	2208.00	2209.00	1685.89	2183.00
Train 2								
Planned unavailable hours	35.00	2.04	31.72	3.00	24.01	1.00	15.30	1.88
Unplanned unavailable hours	0	0	0	0.33	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	2208.00	2209.00	2134.40	2183.00	2208.00	2209.00	1685.89	2183.00
Indicator value	0.7%							

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



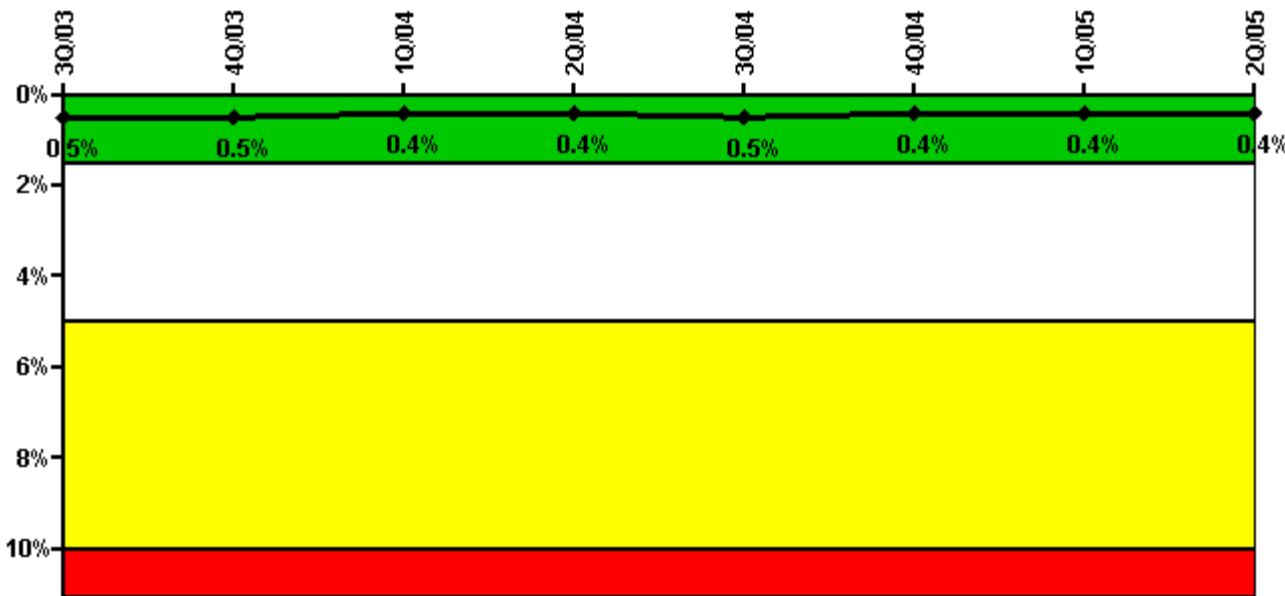
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	0	14.50	0.67	2.79	0.68	5.82	0.78	0.63
Unplanned unavailable hours	0	0	0	0	0	0	1.00	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	2134.40	2183.00	2208.00	2209.00	1685.89	2183.00
Train 2								
Planned unavailable hours	0.97	14.82	0.45	0	4.77	1.02	0.43	9.80
Unplanned unavailable hours	0	0	0	0	4.25	11.03	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	2134.40	2183.00	2208.00	2209.00	1685.89	2183.00
Train 3								
Planned unavailable hours	0	0	4.57	0	43.08	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	2134.40	2183.00	2208.00	2209.00	1685.89	2183.00
Indicator value	0.4%	0.4%	0.4%	0.3%	0.3%	0.3%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



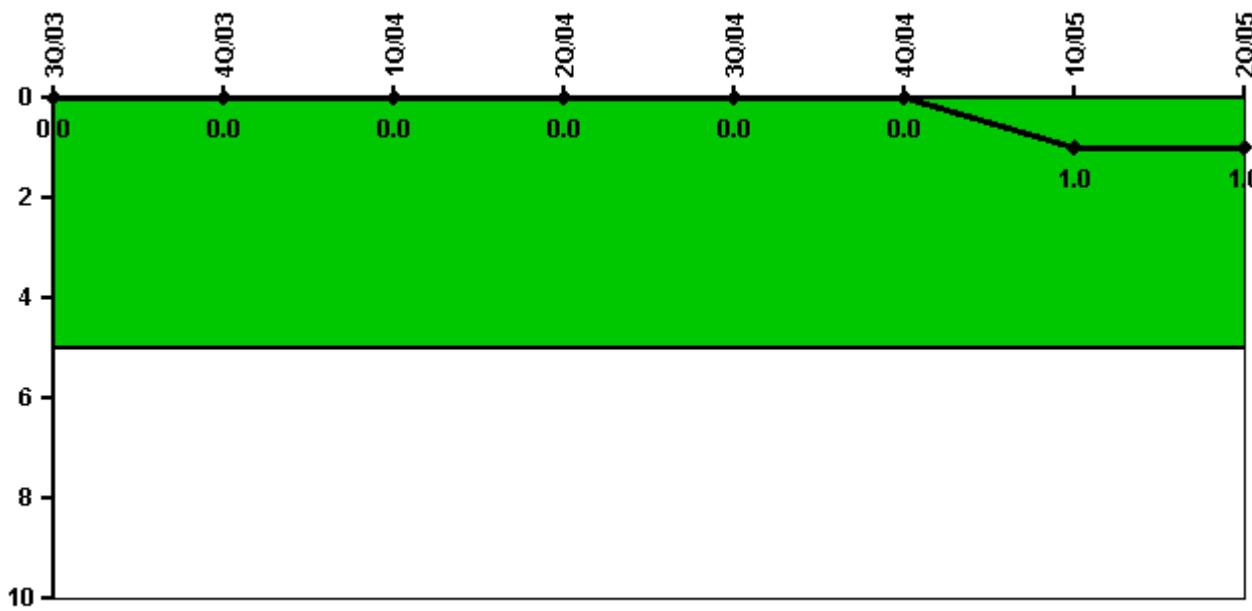
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	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	0	0	0	0	0	0	430.89	0
Train 2								
Planned unavailable hours	0	0	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	0	0	0	0	0	0	430.89	0
Train 3								
Planned unavailable hours	3.43	28.88	28.26	1.38	12.73	15.64	21.30	3.00
Unplanned unavailable hours	0	0	0	0	4.60	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	2209.00	1729.11	2183.00
Train 4								
Planned unavailable hours	34.77	1.25	28.35	1.17	32.52	2.92	19.73	2.77
Unplanned unavailable hours	0	0	0	0.33	4.82	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	2209.00	1729.11	2183.00
Indicator value								
Indicator value	0.5%	0.5%	0.4%	0.4%	0.5%	0.4%	0.4%	0.4%

Licensee Comments:

4Q/02: A typographical error was identified on 21 Containment Spray Pump unavailability for October 2002. The reported unavailability was 1.43 hours, the corrected period is 25.43 hours. No unavailability thresholds were exceeded as a result of this error.

Safety System Functional Failures (PWR)

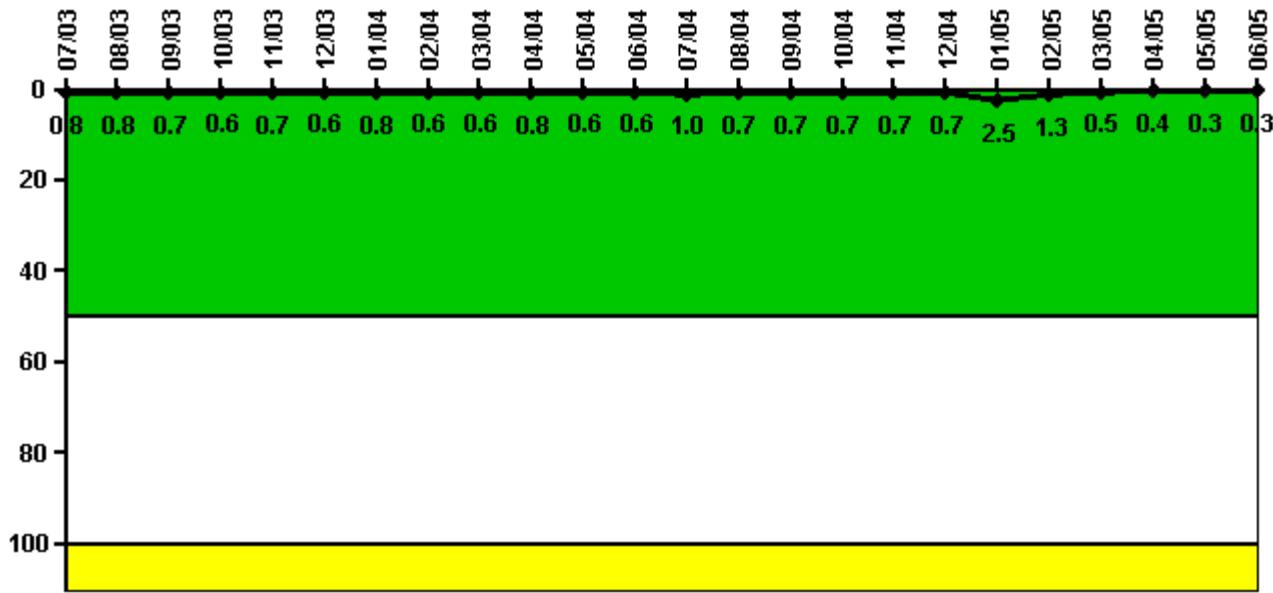
Thresholds: White > 5.0

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	0	1	0
Indicator value	0	0	0	0	0	0	1	1

Licensee Comments: none

Reactor Coolant System Activity



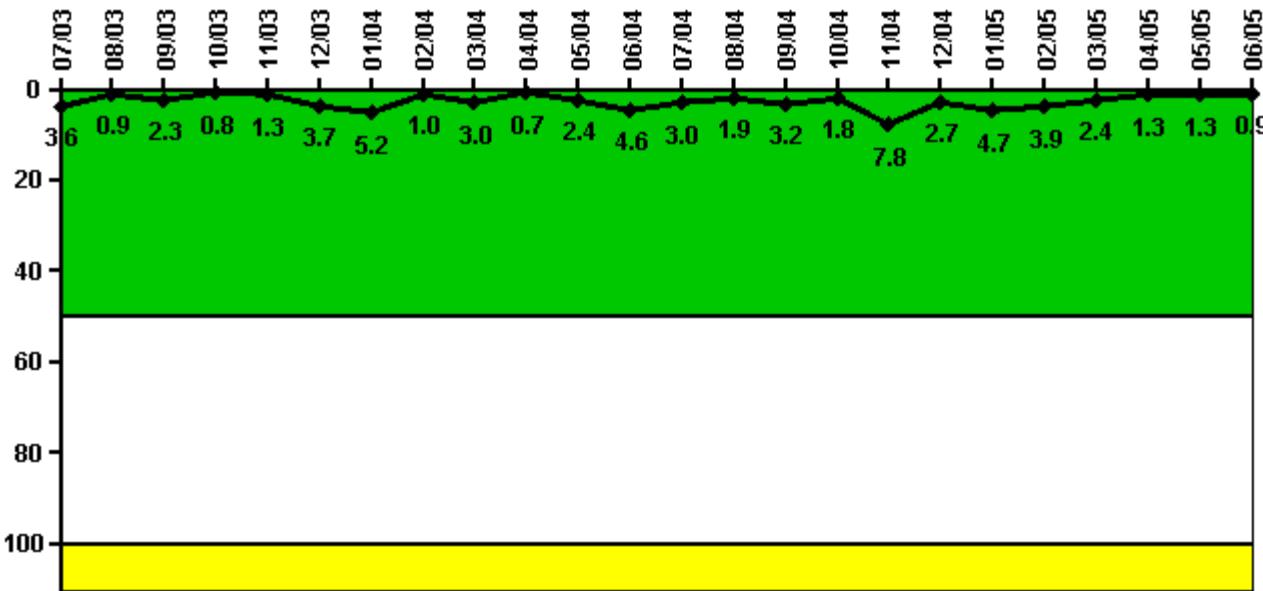
Thresholds: White > 50.0 Yellow > 100.0

Notes

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	0.007940	0.007550	0.006680	0.006480	0.006510	0.006060	0.008230	0.006480	0.006130	0.007520	0.005780	0.006260
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	0.8	0.8	0.7	0.6	0.7	0.6	0.8	0.6	0.6	0.8	0.6	0.6
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	0.010300	0.007170	0.006560	0.007020	0.007020	0.006850	0.025100	0.012700	0.005490	0.003780	0.003410	0.003020
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	1.0	0.7	0.7	0.7	0.7	0.7	2.5	1.3	0.5	0.4	0.3	0.3

Licensee Comments: none

Reactor Coolant System Leakage



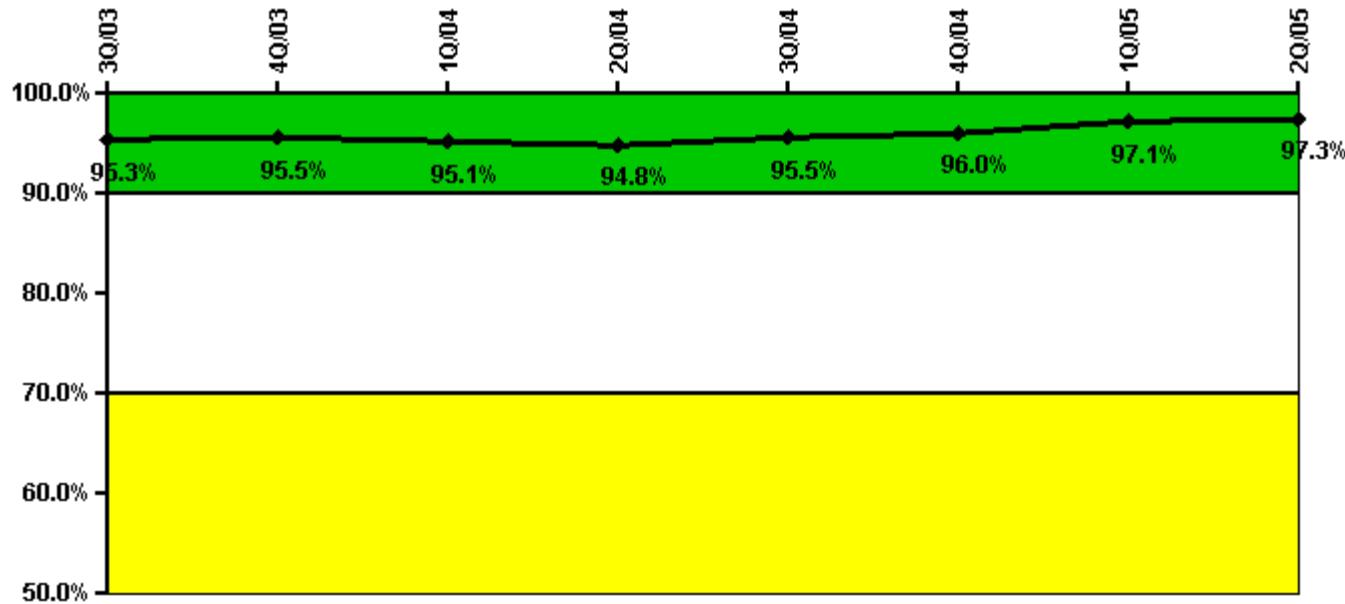
Thresholds: White > 50.0 Yellow > 100.0

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	0.357	0.094	0.228	0.077	0.129	0.367	0.520	0.100	0.300	0.070	0.240	0.460
Indicator value	3.6	0.9	2.3	0.8	1.3	3.7	5.2	1.0	3.0	0.7	2.4	4.6
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	0.300	0.190	0.320	0.176	0.783	0.269	0.470	0.392	0.236	0.130	0.130	0.090
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	3.0	1.9	3.2	1.8	7.8	2.7	4.7	3.9	2.4	1.3	1.3	0.9

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

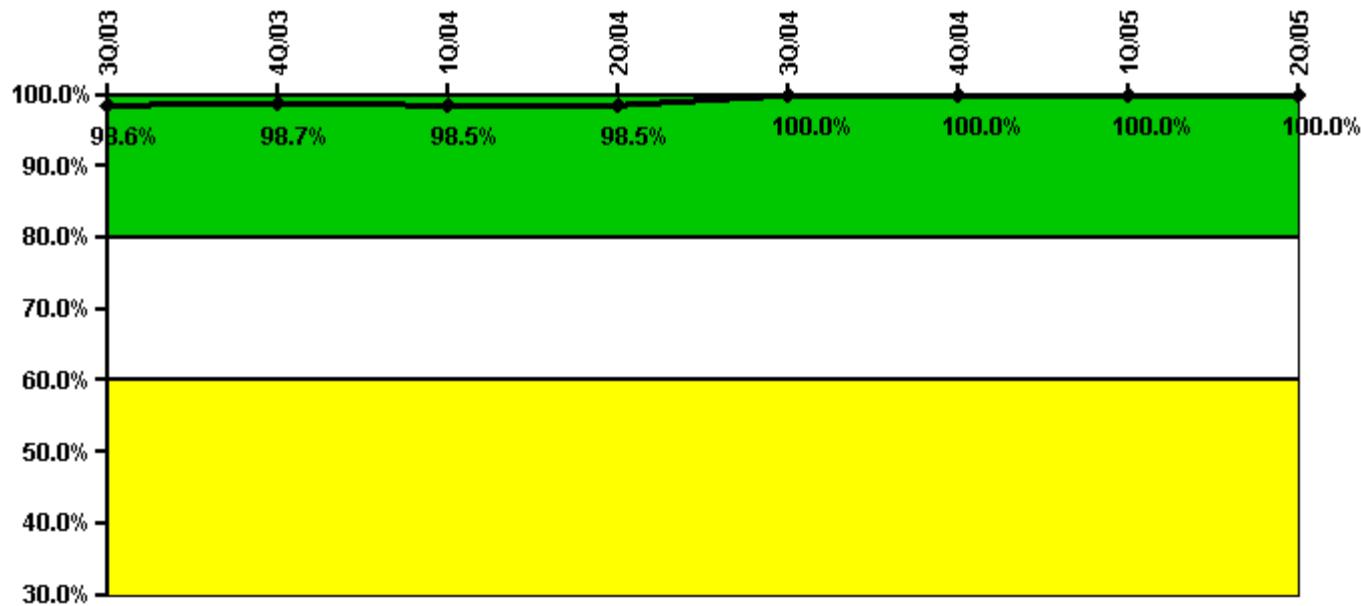
Drill/Exercise Performance	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful opportunities	29.0	56.0	18.0	14.0	26.0	72.0	2.0	0
Total opportunities	29.0	57.0	19.0	15.0	27.0	74.0	2.0	0
Indicator value	95.3%	95.5%	95.1%	94.8%	95.5%	96.0%	97.1%	97.3%

Licensee Comments:

1Q/05: The 1Q2005 PI Data was revised to include an additional successful opportunity in the January 2005 monthly data. The associated performance indicator remains green.

1Q/04: The 1Q2004 PI Data was revised to include a missed opportunity in the January 2004 monthly data. The associated performance indicator remains green.

ERO Drill Participation



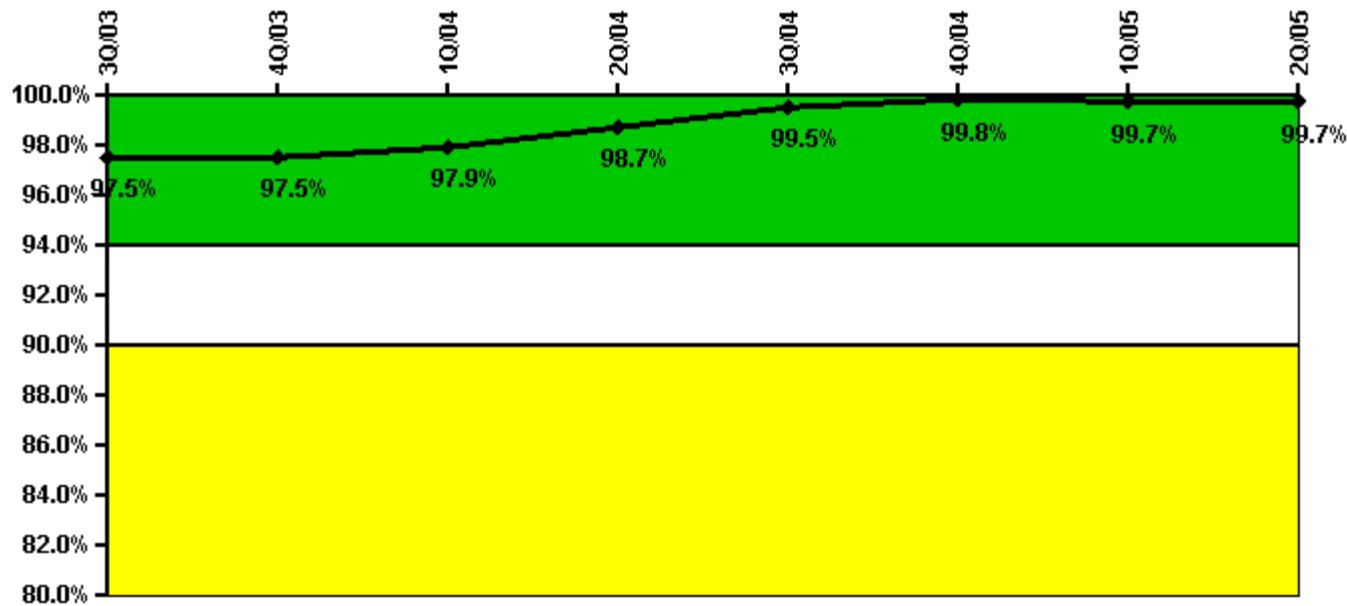
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Participating Key personnel	68.0	77.0	65.0	65.0	68.0	68.0	65.0	62.0
Total Key personnel	69.0	78.0	66.0	66.0	68.0	68.0	65.0	62.0
Indicator value	98.6%	98.7%	98.5%	98.5%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System

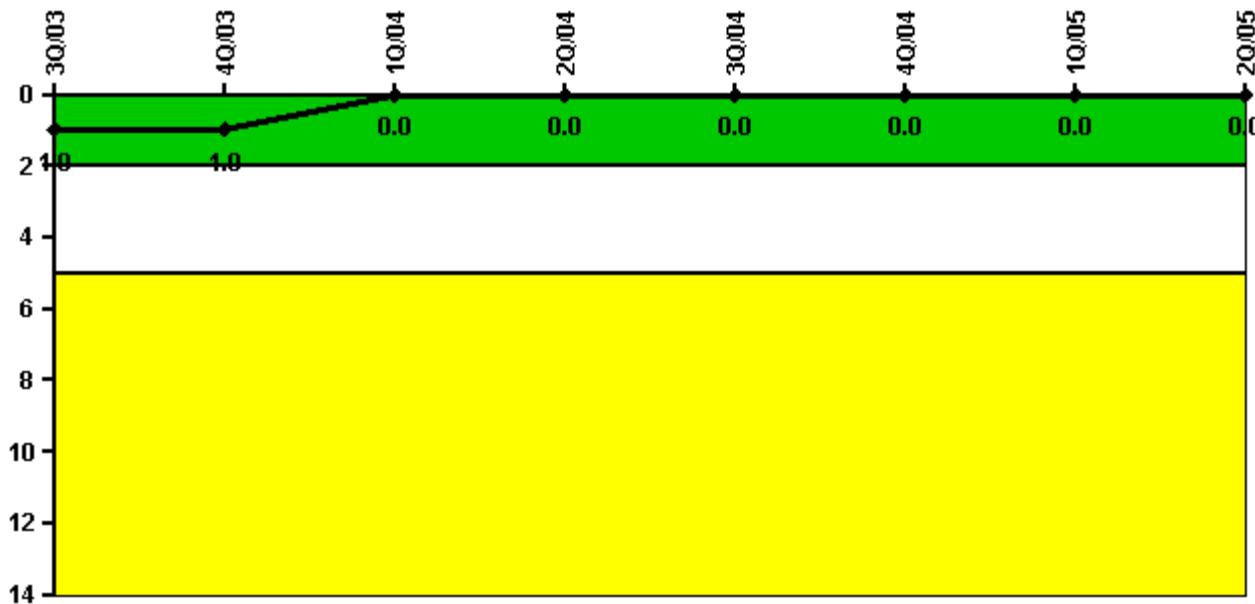


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful siren-tests	963	1007	935	932	934	948	944	944
Total sirens-tests	996	1019	936	936	936	949	949	949
Indicator value	97.5%	97.5%	97.9%	98.7%	99.5%	99.8%	99.7%	99.7%

Licensee Comments: none

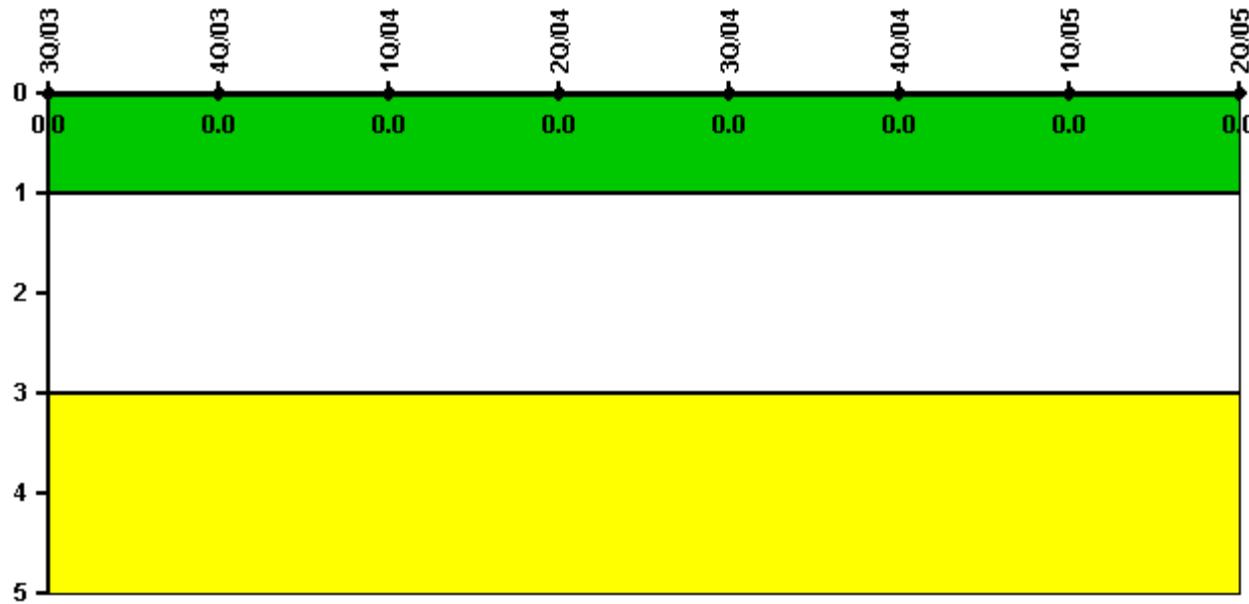
Occupational Exposure Control Effectiveness

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	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/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.

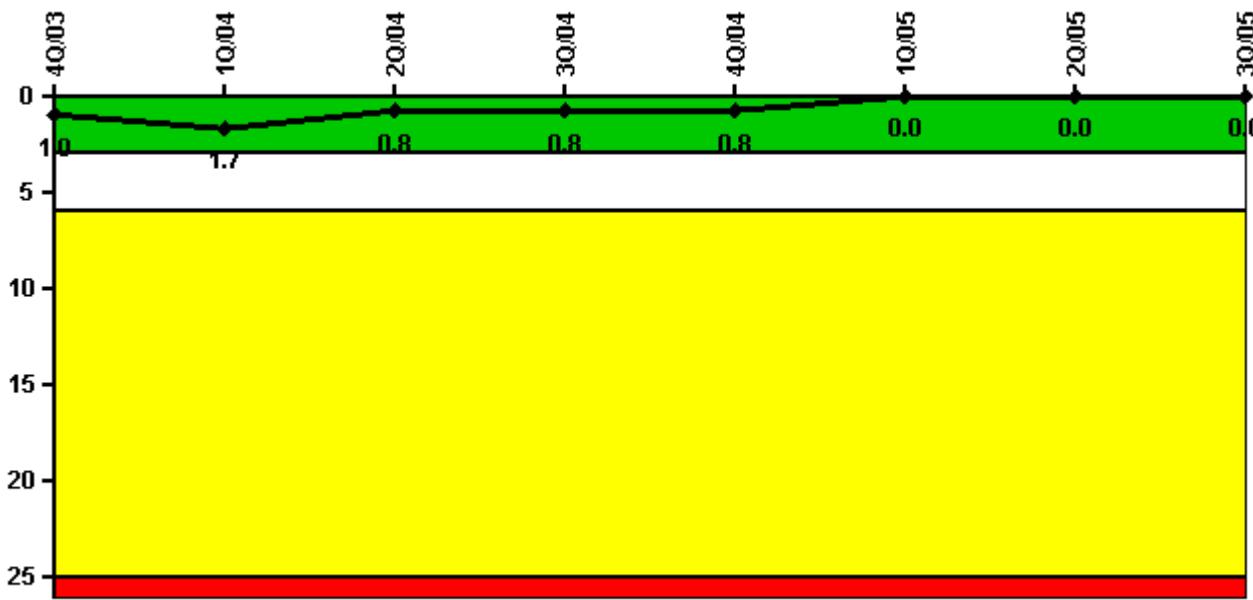


[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: August 3, 2005

Calvert Cliffs 2**3Q/2005 Performance Indicators**

Licensee's General Comments: none

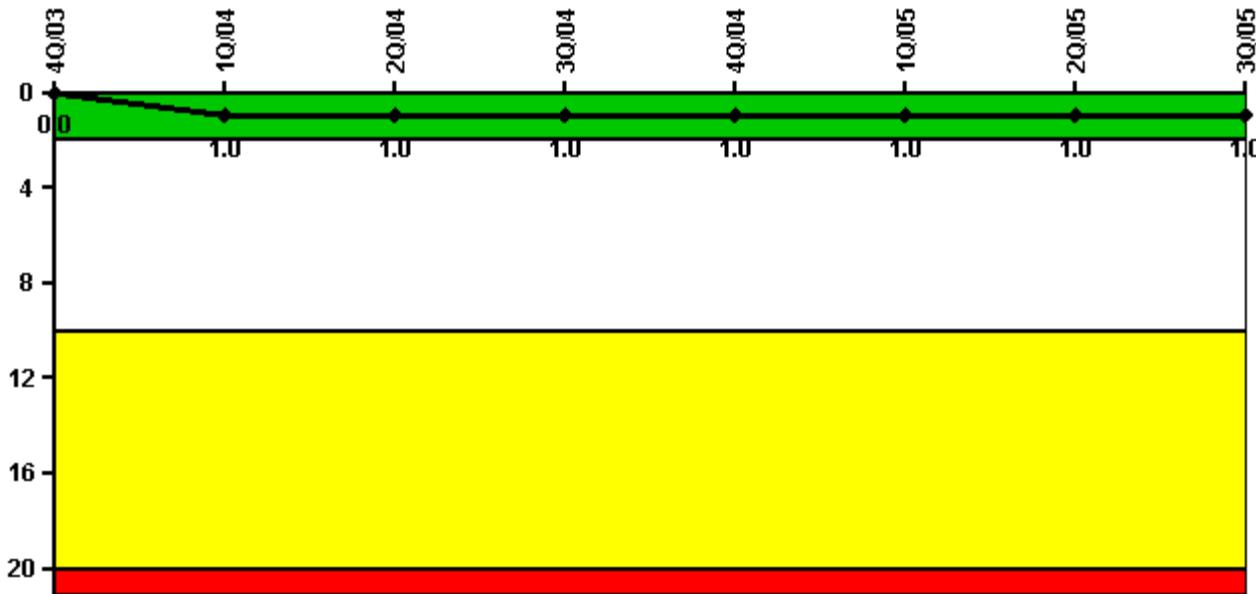
Unplanned Scrams per 7000 Critical Hrs

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	0	1.0	0	0	0	0	0	0
Critical hours	2209.0	2134.4	2183.0	2208.0	2209.0	1685.9	2183.0	2208.0
Indicator value	1.0	1.7	0.8	0.8	0.8	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

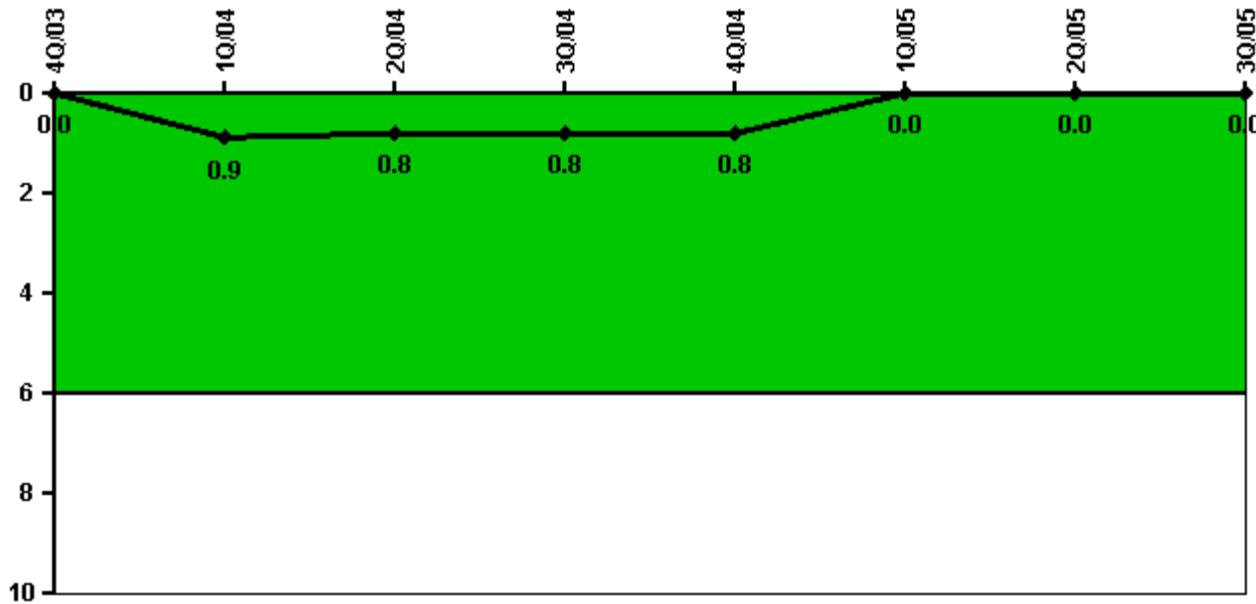
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Scrams	0	1.0	0	0	0	0	0	0
Indicator value	0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



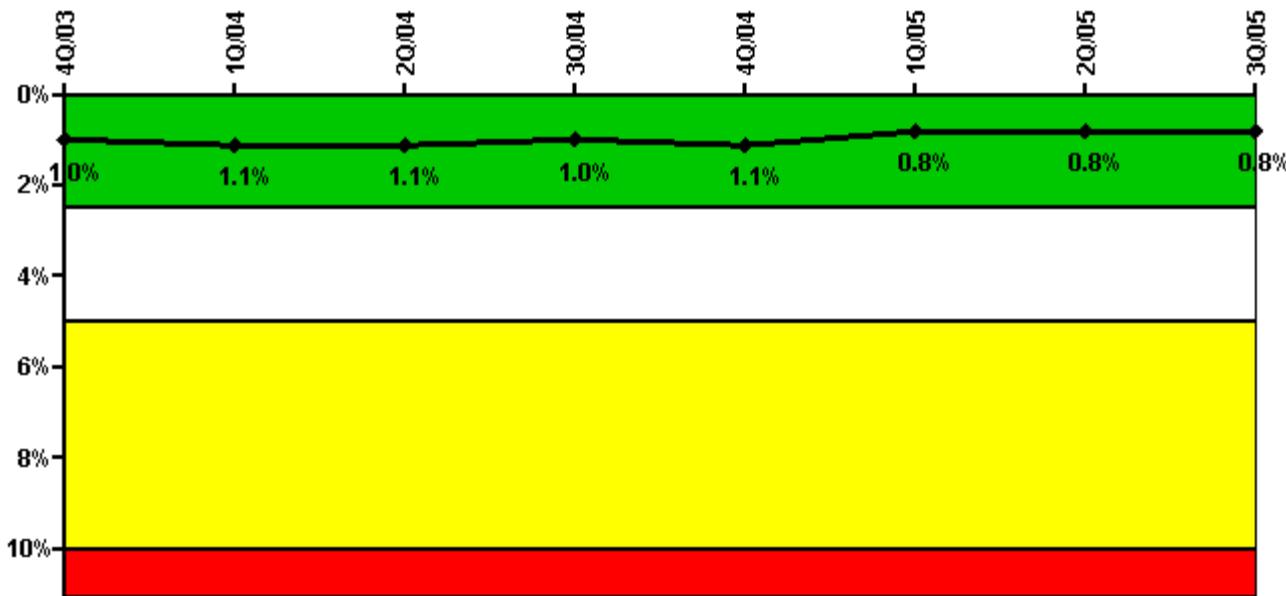
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2209.0	2134.4	2183.0	2208.0	2209.0	1685.9	2183.0	2208.0
Indicator value	0	0.9	0.8	0.8	0.8	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



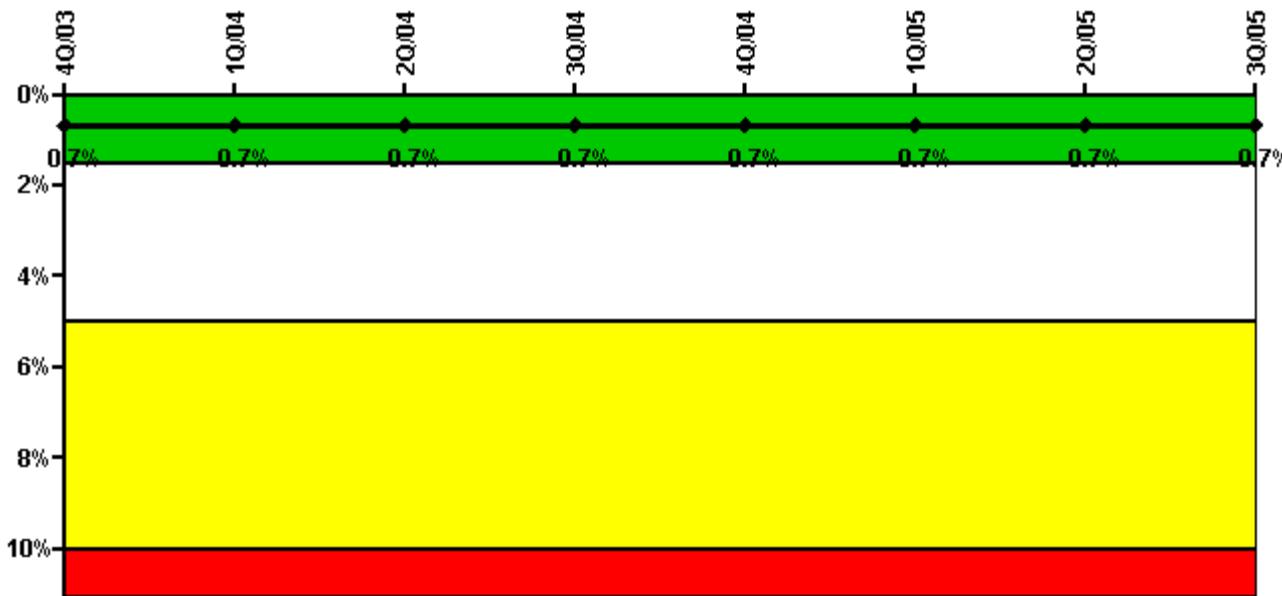
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

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	27.13	22.65	0	0	16.81	0	1.50	0
Unplanned unavailable hours	117.97	0	0	0	16.00	8.07	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	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	8.68	27.27	11.61	18.84	2.90	0	13.35	0
Unplanned unavailable hours	0	20.00	0.91	0	0	0	0.25	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	2209.00	2160.00	2183.00	2208.00
Indicator value	1.0%	1.1%	1.1%	1.0%	1.1%	0.8%	0.8%	0.8%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



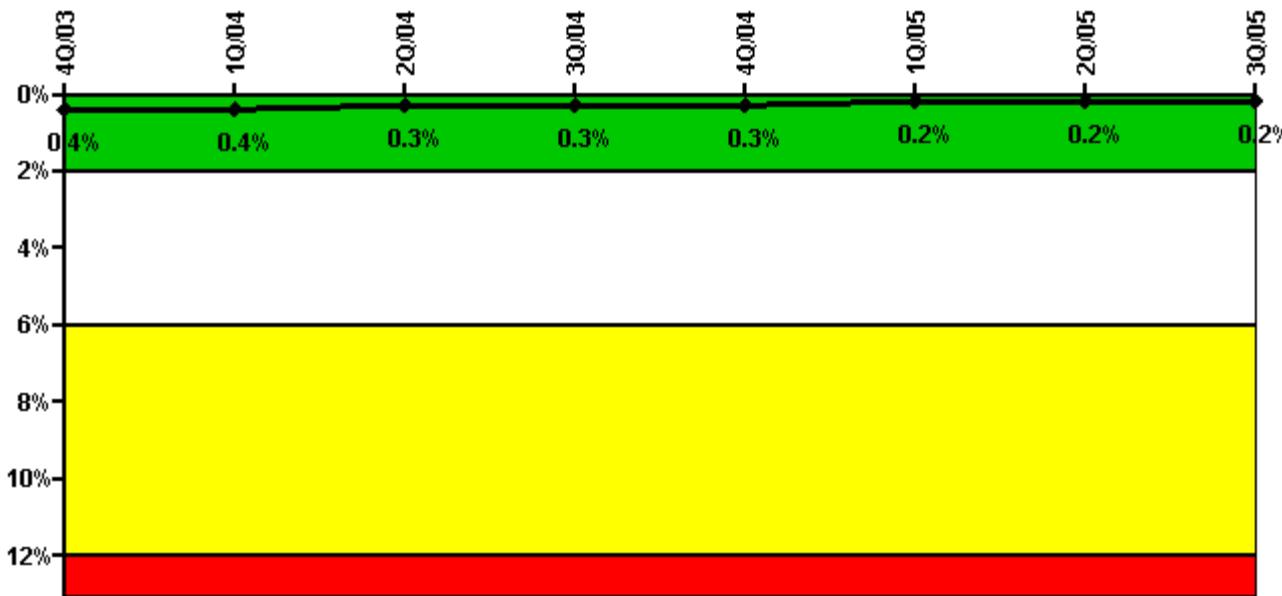
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	29.17	25.15	3.00	0.59	9.35	18.92	3.38	2.48
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	2134.40	2183.00	2208.00	2209.00	1685.89	2183.00	2208.00
Train 2								
Planned unavailable hours	2.04	31.72	3.00	24.01	1.00	15.30	1.88	23.73
Unplanned unavailable hours	0	0	0.33	0	0	0	0	12.80
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2134.40	2183.00	2208.00	2209.00	1685.89	2183.00	2208.00
Indicator value	0.7%							

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



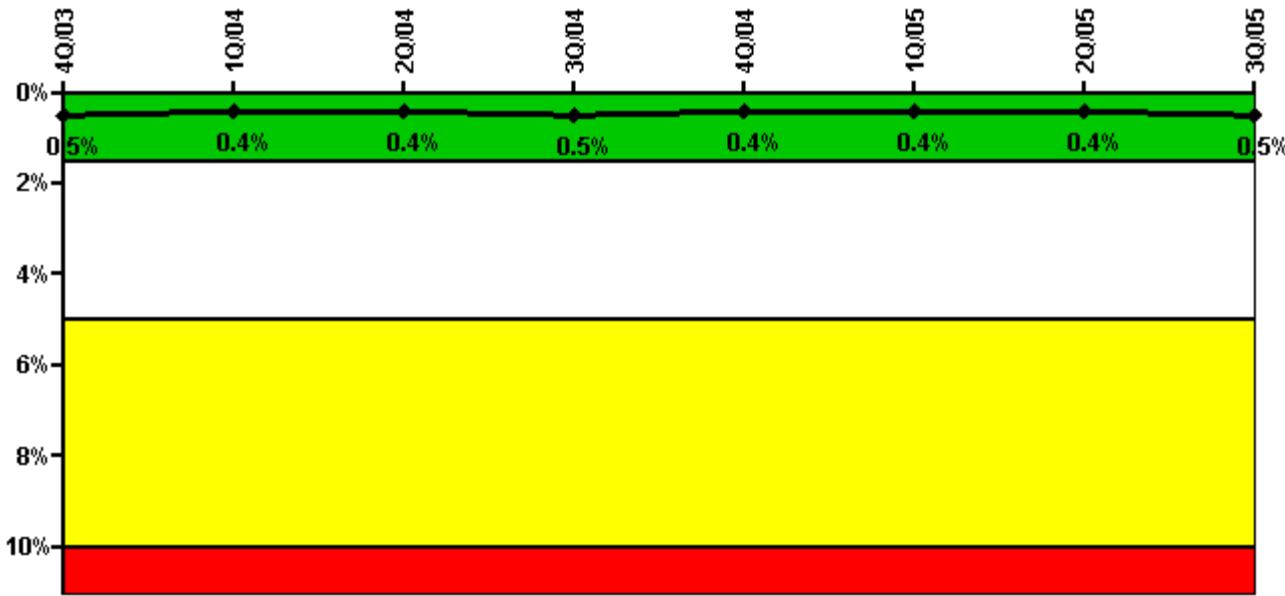
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	14.50	0.67	2.79	0.68	5.82	0.78	0.63	0
Unplanned unavailable hours	0	0	0	0	0	1.00	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	2134.40	2183.00	2208.00	2209.00	1685.89	2183.00	2208.00
Train 2								
Planned unavailable hours	14.82	0.45	0	4.77	1.02	0.43	9.80	1.10
Unplanned unavailable hours	0	0	0	4.25	11.03	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	2134.40	2183.00	2208.00	2209.00	1685.89	2183.00	2208.00
Train 3								
Planned unavailable hours	0	4.57	0	43.08	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	9.69
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	2134.40	2183.00	2208.00	2209.00	1685.89	2183.00	2208.00
Indicator value	0.4%	0.4%	0.3%	0.3%	0.3%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



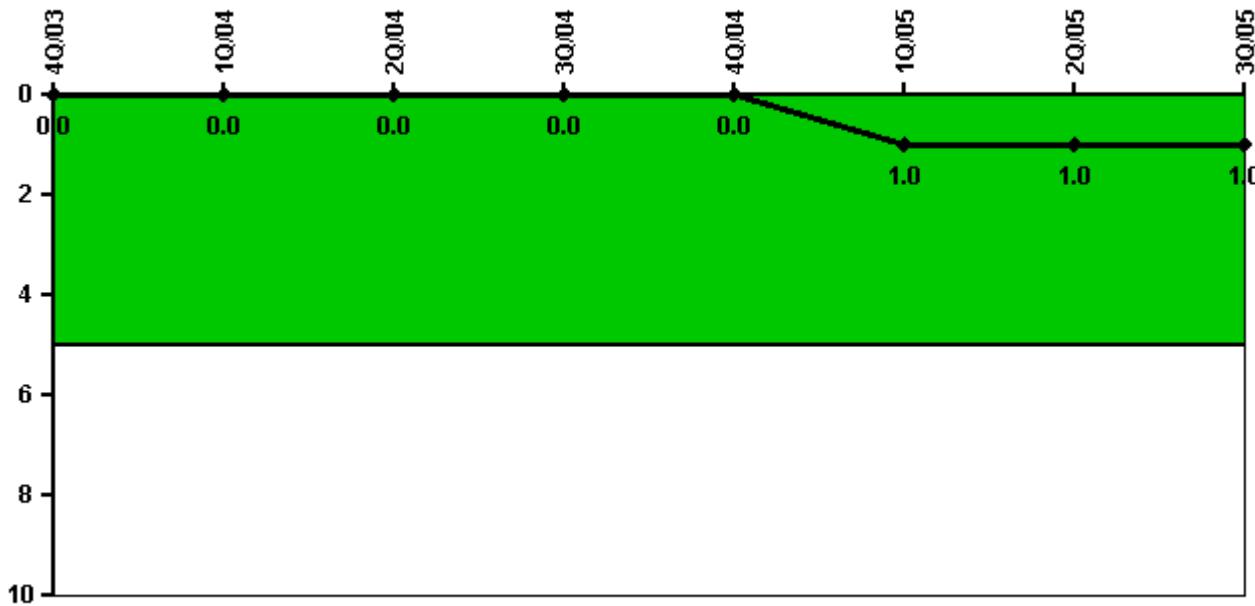
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	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	0	0	0	0	0	430.89	0	0
Train 2								
Planned unavailable hours	0	0	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	0	0	0	0	0	430.89	0	0
Train 3								
Planned unavailable hours	28.88	28.26	1.38	12.73	15.64	21.30	3.00	34.11
Unplanned unavailable hours	0	0	0	4.60	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	2209.00	1729.11	2183.00	2208.00
Train 4								
Planned unavailable hours	1.25	28.35	1.17	32.52	2.92	19.73	2.77	41.25
Unplanned unavailable hours	0	0	0.33	4.82	0	0	0	14.40
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	2209.00	1729.11	2183.00	2208.00
Indicator value								
Indicator value	0.5%	0.4%	0.4%	0.5%	0.4%	0.4%	0.4%	0.5%

Licensee Comments: none

Safety System Functional Failures (PWR)



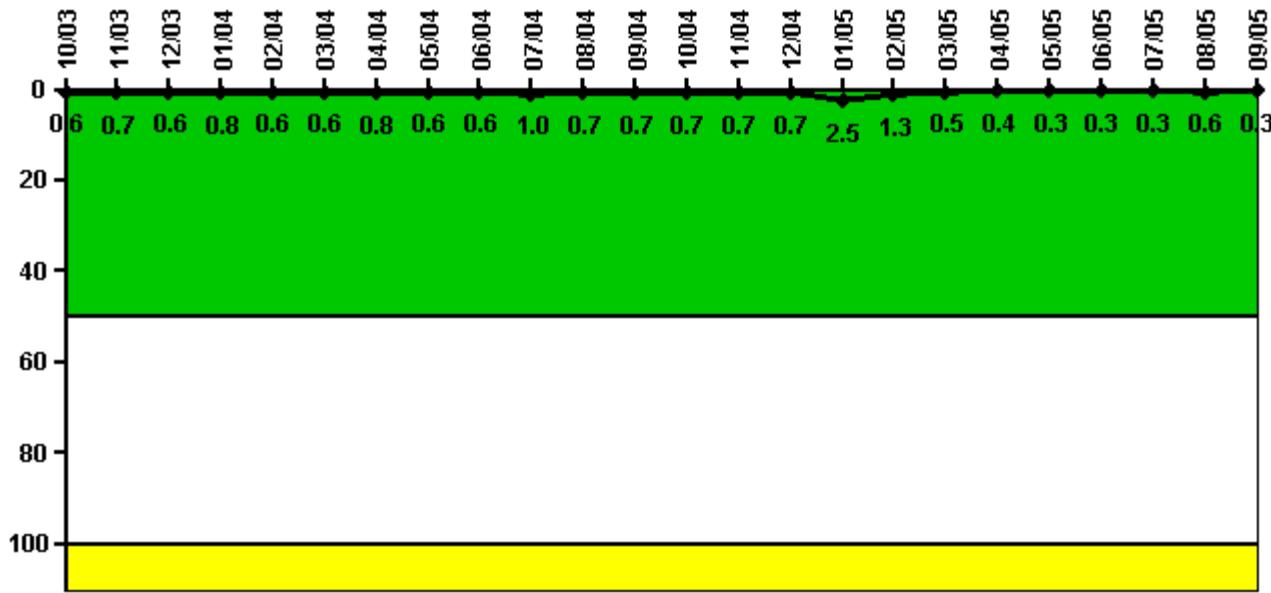
Thresholds: White > 5.0

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	0	1	0	0
Indicator value	0	0	0	0	0	1	1	1

Licensee Comments: none

Reactor Coolant System Activity



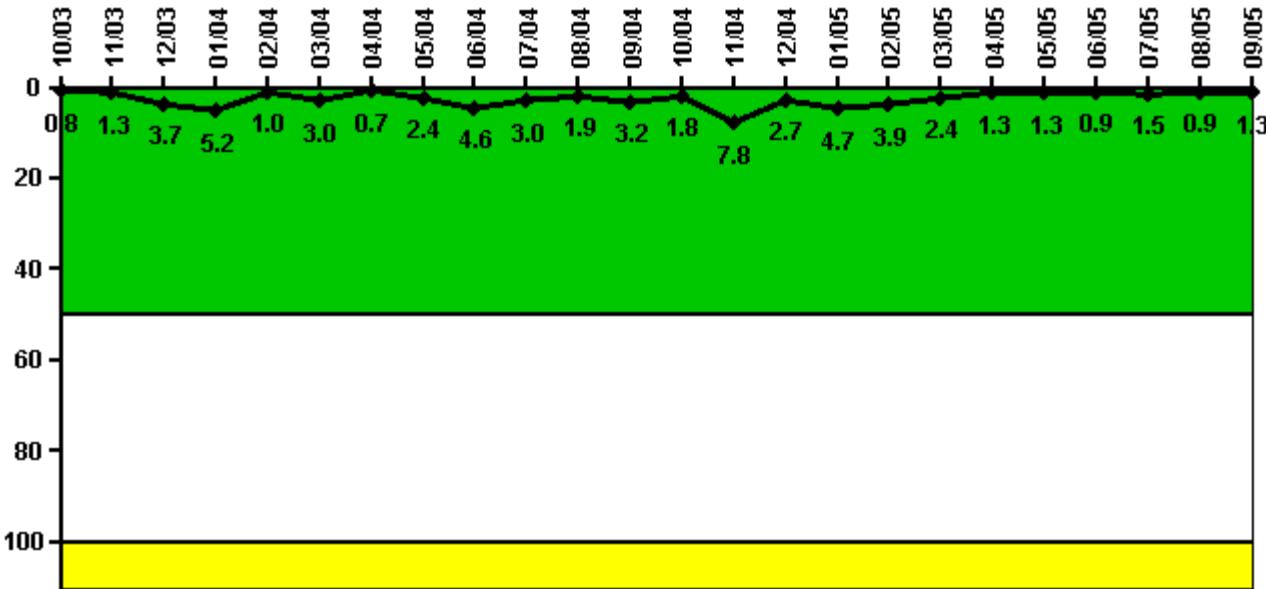
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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	0.006480	0.006510	0.006060	0.008230	0.006480	0.006130	0.007520	0.005780	0.006260	0.010300	0.007170	0.006560
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	0.6	0.7	0.6	0.8	0.6	0.6	0.8	0.6	0.6	1.0	0.7	0.7
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	0.007020	0.007020	0.006850	0.025100	0.012700	0.005490	0.003780	0.003410	0.003020	0.003010	0.005790	0.003180
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	0.7	0.7	0.7	2.5	1.3	0.5	0.4	0.3	0.3	0.3	0.6	0.3

Licensee Comments: none

Reactor Coolant System Leakage



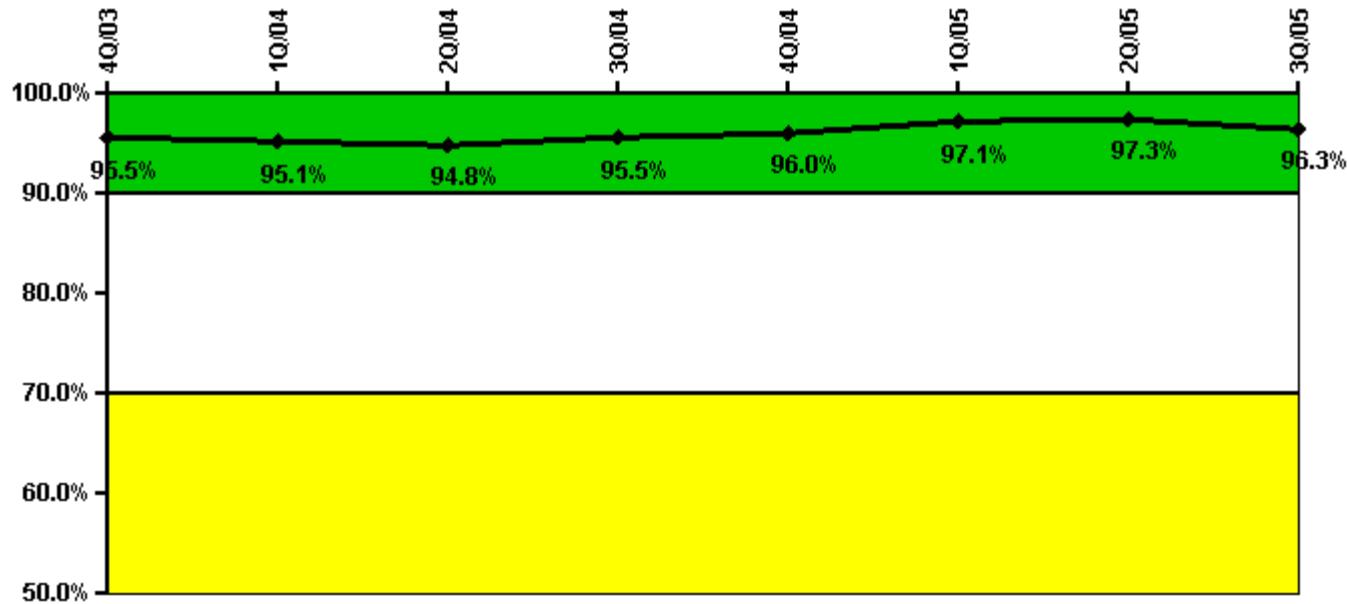
Thresholds: White > 50.0 Yellow > 100.0

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	0.077	0.129	0.367	0.520	0.100	0.300	0.070	0.240	0.460	0.300	0.190	0.320
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	0.8	1.3	3.7	5.2	1.0	3.0	0.7	2.4	4.6	3.0	1.9	3.2
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	0.176	0.783	0.269	0.470	0.392	0.236	0.130	0.130	0.090	0.147	0.093	0.134
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	1.8	7.8	2.7	4.7	3.9	2.4	1.3	1.3	0.9	1.5	0.9	1.3

Licensee Comments: none

Drill/Exercise Performance



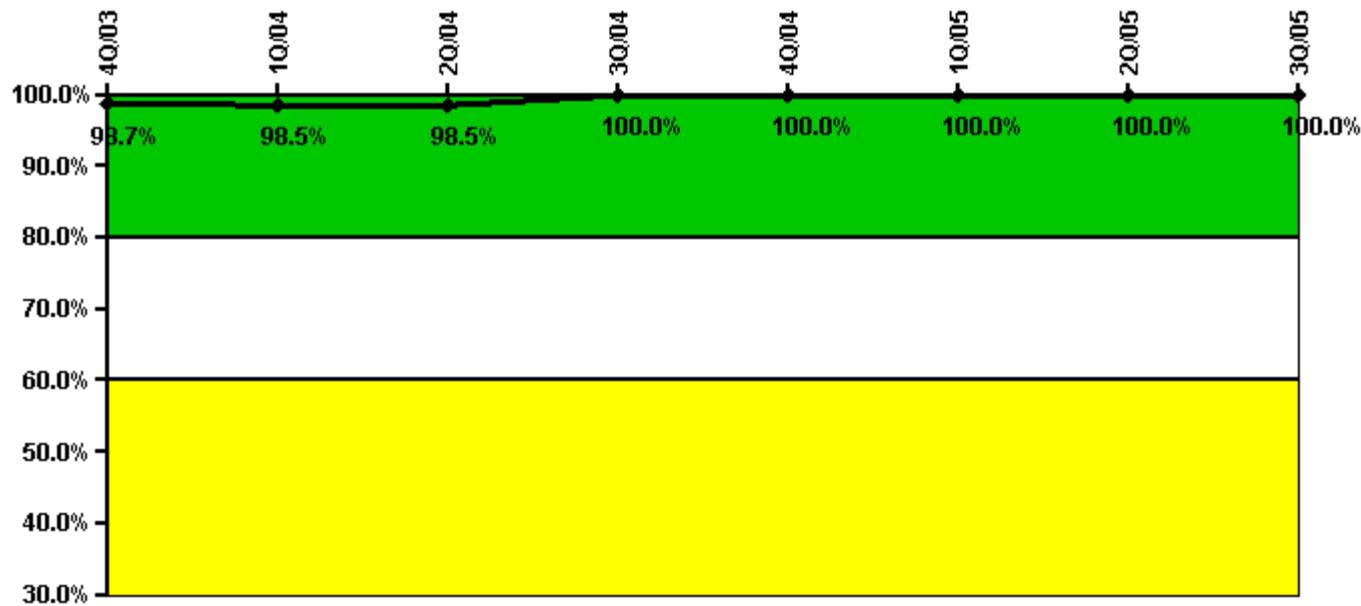
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Successful opportunities	56.0	18.0	14.0	26.0	72.0	2.0	0	49.0
Total opportunities	57.0	19.0	15.0	27.0	74.0	2.0	0	52.0
Indicator value	95.5%	95.1%	94.8%	95.5%	96.0%	97.1%	97.3%	96.3%

Licensee Comments: none

ERO Drill Participation



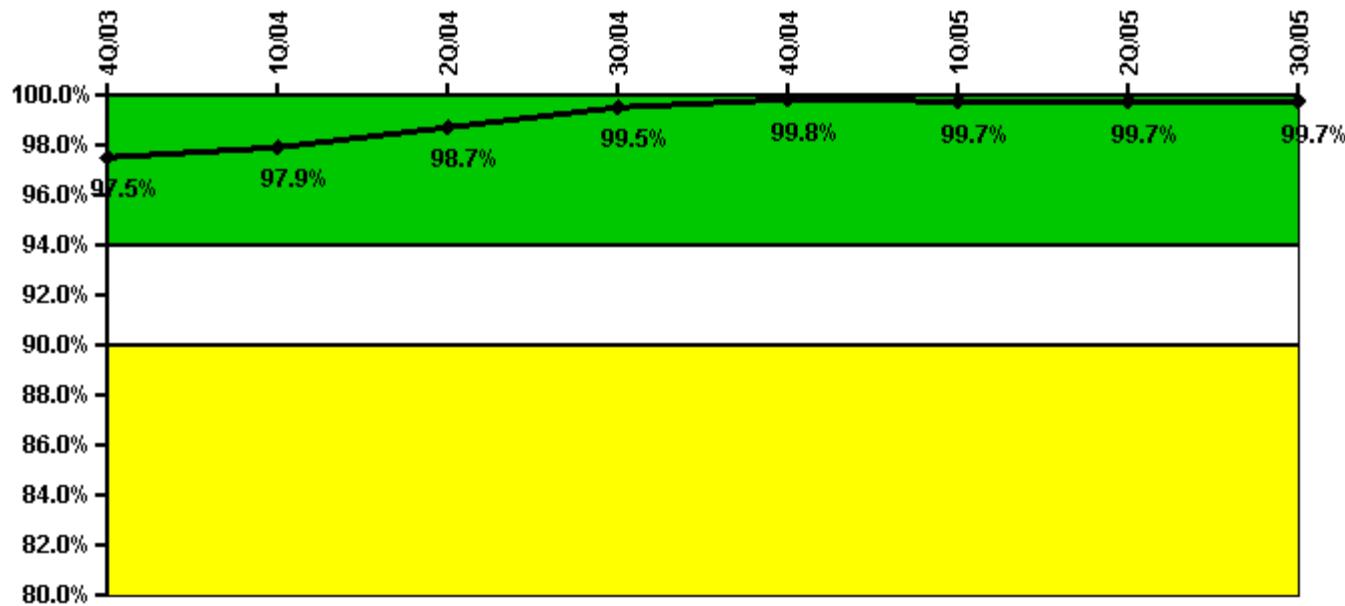
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Participating Key personnel	77.0	65.0	65.0	68.0	68.0	65.0	62.0	62.0
Total Key personnel	78.0	66.0	66.0	68.0	68.0	65.0	62.0	62.0
Indicator value	98.7%	98.5%	98.5%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System

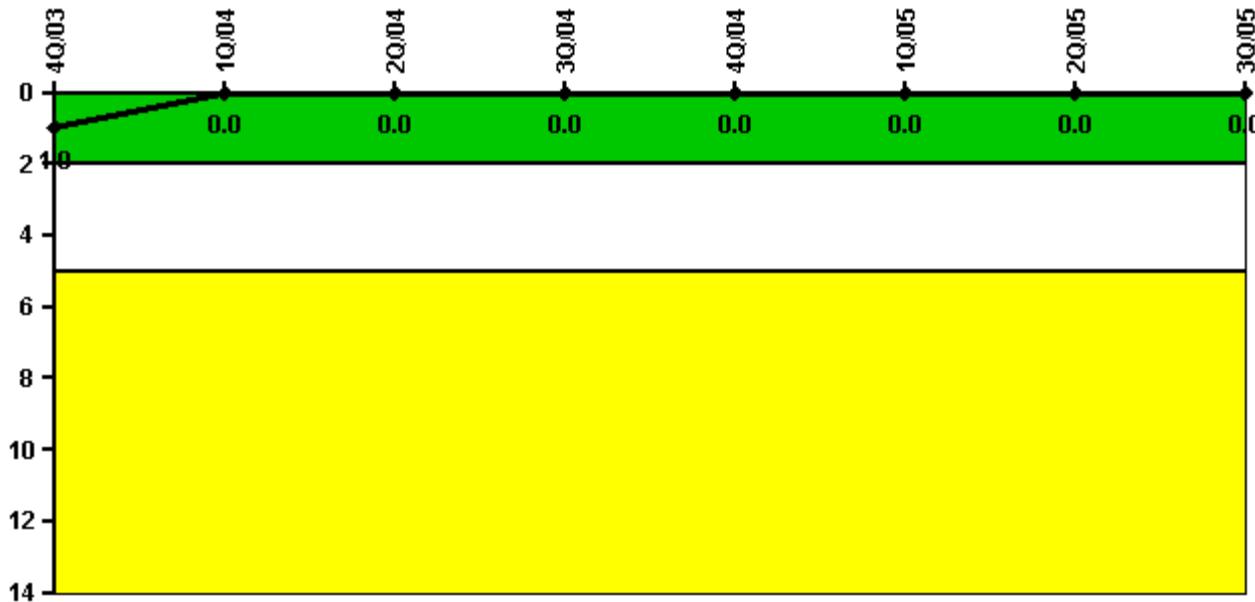


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Successful siren-tests	1007	935	932	934	948	944	944	949
Total sirens-tests	1019	936	936	936	949	949	949	949
Indicator value	97.5%	97.9%	98.7%	99.5%	99.8%	99.7%	99.7%	99.7%

Licensee Comments: none

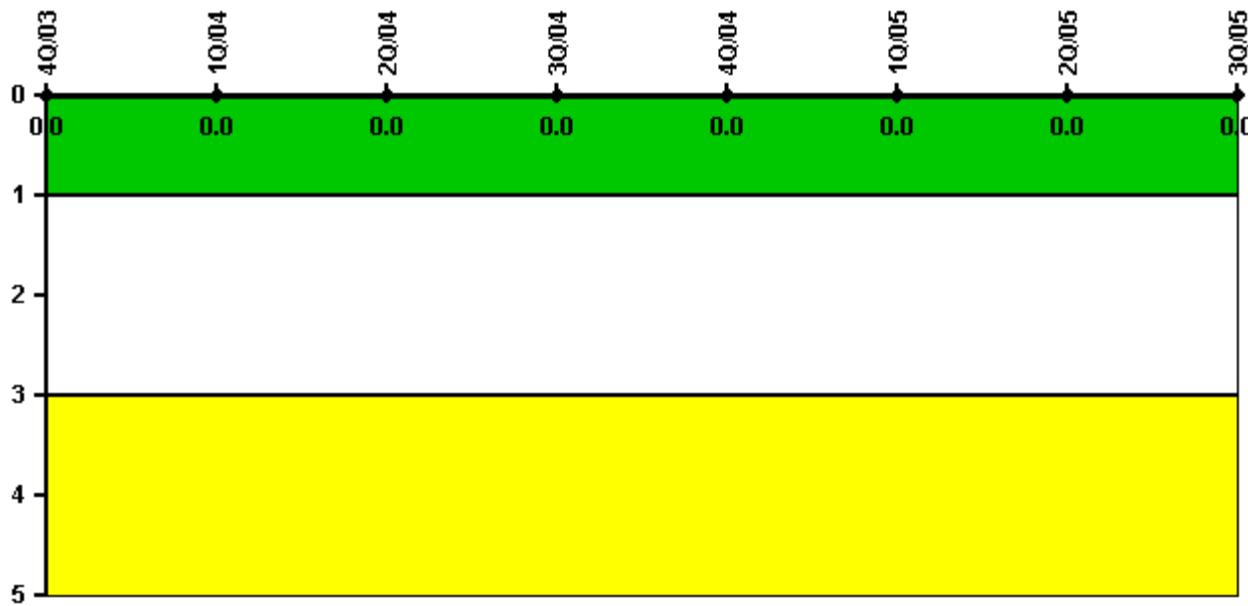
Occupational Exposure Control Effectiveness

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	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	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.

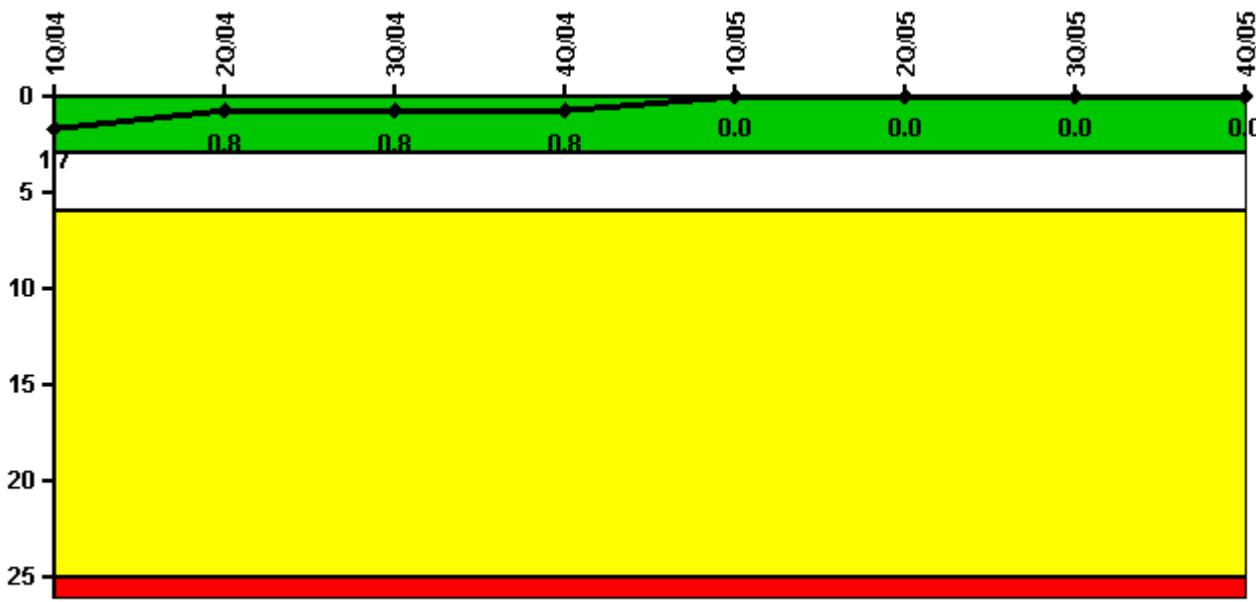


[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: November 3, 2005

Calvert Cliffs 2**4Q/2005 Performance Indicators**

Licensee's General Comments: none

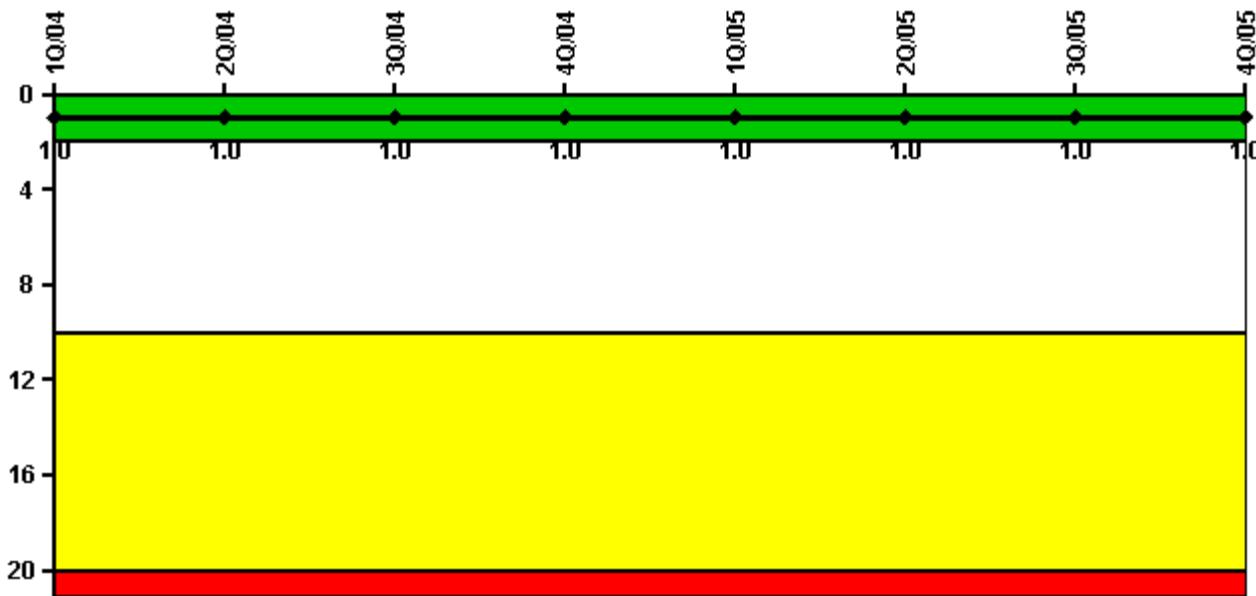
Unplanned Scrams per 7000 Critical Hrs

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	0	0	0	0	0	0	0
Critical hours	2134.4	2183.0	2208.0	2209.0	1685.9	2183.0	2208.0	2209.0
Indicator value	1.7	0.8	0.8	0.8	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

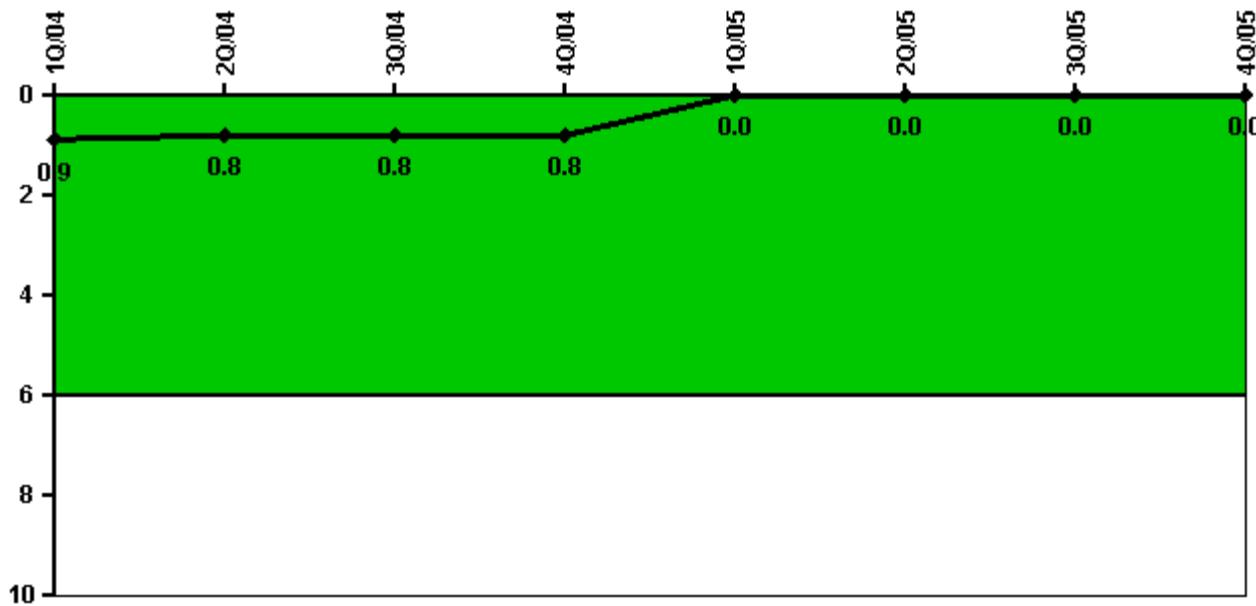
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Scrams	1.0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



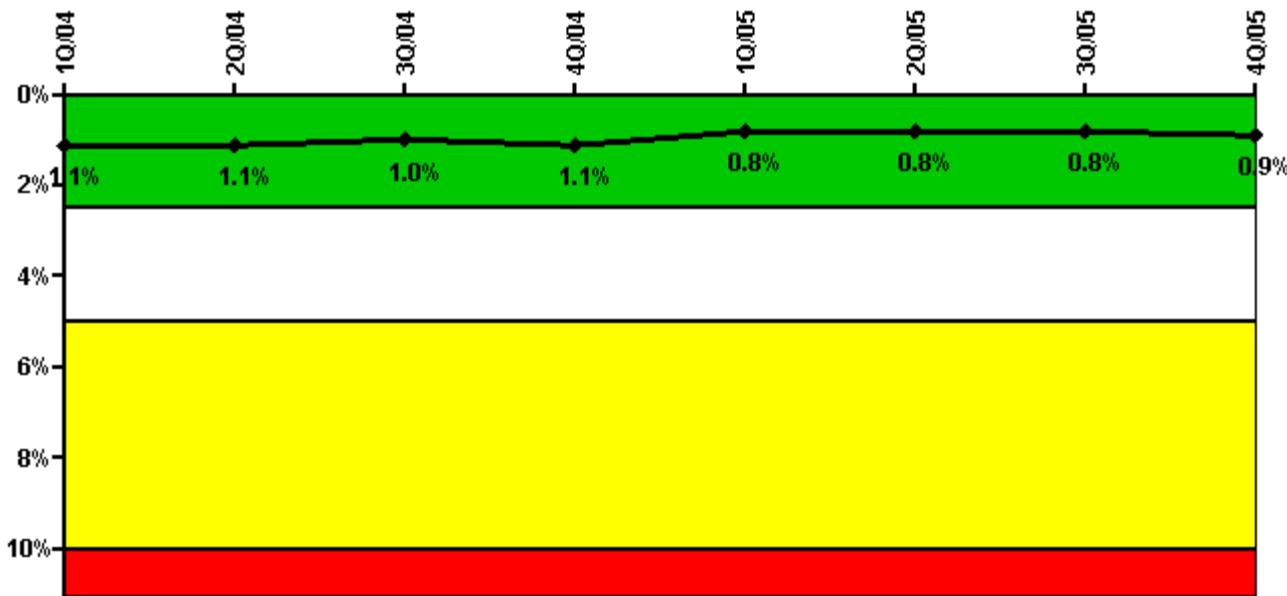
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2134.4	2183.0	2208.0	2209.0	1685.9	2183.0	2208.0	2209.0
Indicator value	0.9	0.8	0.8	0.8	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



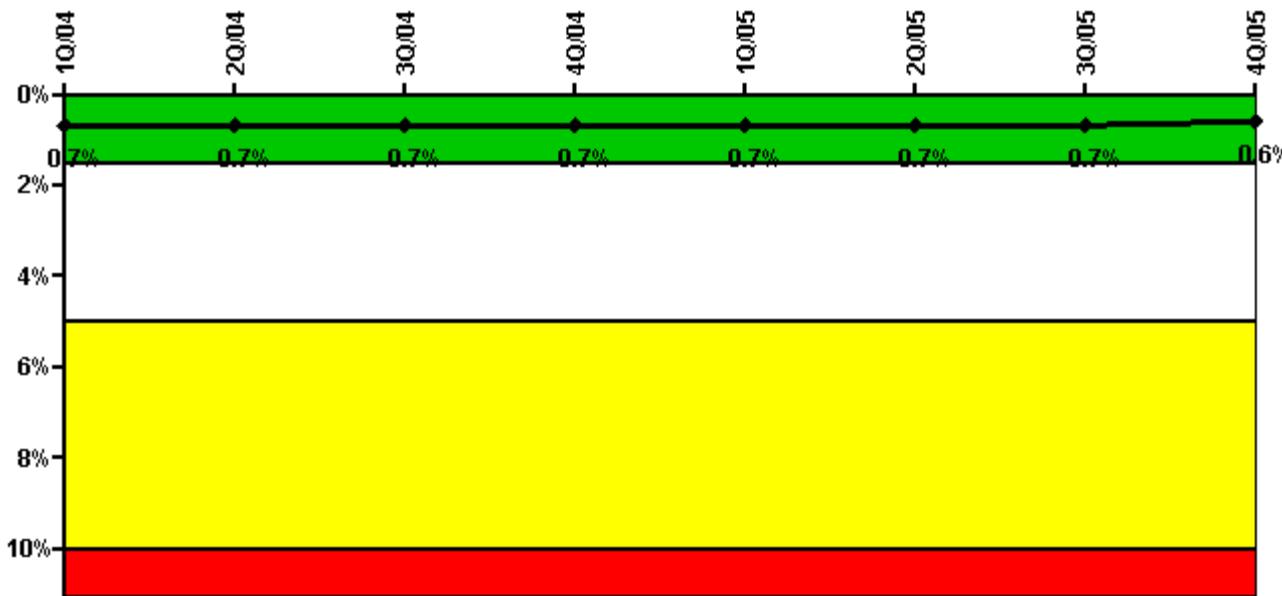
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

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	22.65	0	0	16.81	0	1.50	0	42.00
Unplanned unavailable hours	0	0	0	16.00	8.07	0	0	47.05
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	27.27	11.61	18.84	2.90	0	13.35	0	0
Unplanned unavailable hours	20.00	0.91	0	0	0	0.25	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	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	1.1%	1.1%	1.0%	1.1%	0.8%	0.8%	0.8%	0.9%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



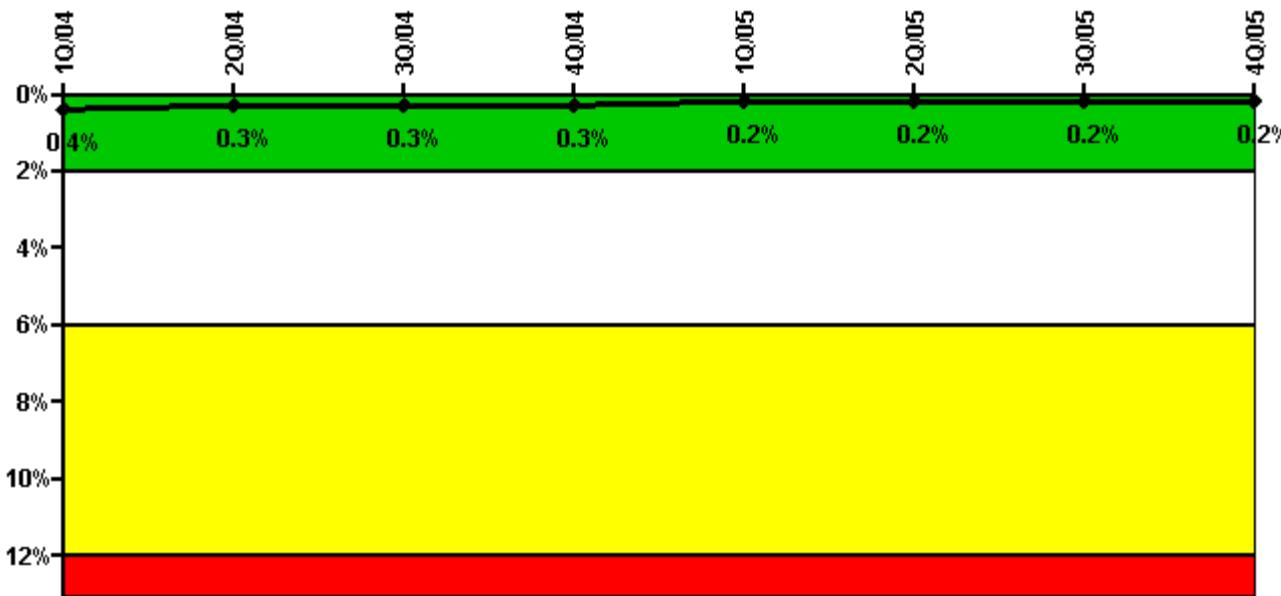
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	25.15	3.00	0.59	9.35	18.92	3.38	2.48	1.61
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	2134.40	2183.00	2208.00	2209.00	1685.89	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	31.72	3.00	24.01	1.00	15.30	1.88	23.73	1.61
Unplanned unavailable hours	0	0.33	0	0	0	0	12.80	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	2134.40	2183.00	2208.00	2209.00	1685.89	2183.00	2208.00	2209.00
Indicator value	0.7%	0.6%						

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



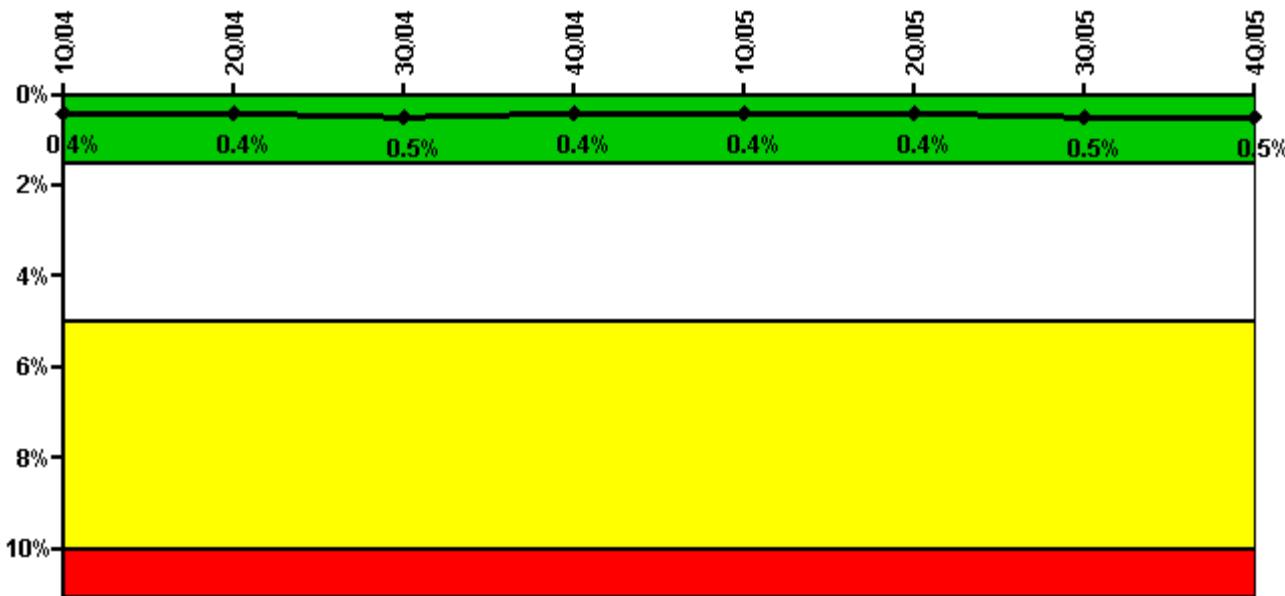
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	0.67	2.79	0.68	5.82	0.78	0.63	0	1.08
Unplanned unavailable hours	0	0	0	0	1.00	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	2134.40	2183.00	2208.00	2209.00	1685.89	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0.45	0	4.77	1.02	0.43	9.80	1.10	0.75
Unplanned unavailable hours	0	0	4.25	11.03	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	2134.40	2183.00	2208.00	2209.00	1685.89	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	4.57	0	43.08	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	9.69	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	2134.40	2183.00	2208.00	2209.00	1685.89	2183.00	2208.00	2209.00
Indicator value	0.4%	0.3%	0.3%	0.3%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



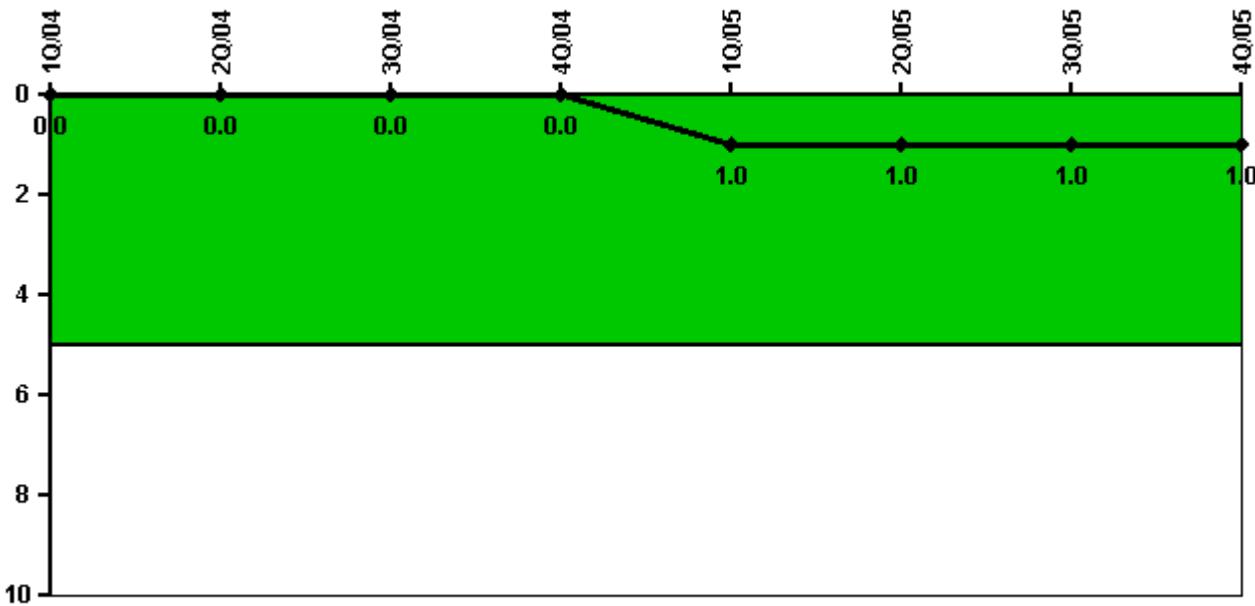
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	0	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	0	0	0	0	430.89	0	0	0
Train 2								
Planned unavailable hours	0	0	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	0	0	0	0	430.89	0	0	0
Train 3								
Planned unavailable hours	28.26	1.38	12.73	15.64	21.30	3.00	34.11	19.95
Unplanned unavailable hours	0	0	4.60	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	2209.00	1729.11	2183.00	2208.00	2209.00
Train 4								
Planned unavailable hours	28.35	1.17	32.52	2.92	19.73	2.77	41.25	3.93
Unplanned unavailable hours	0	0.33	4.82	0	0	0	14.40	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	2209.00	1729.11	2183.00	2208.00	2209.00
Indicator value	0.4%	0.4%	0.5%	0.4%	0.4%	0.4%	0.5%	0.5%

Licensee Comments: none

Safety System Functional Failures (PWR)



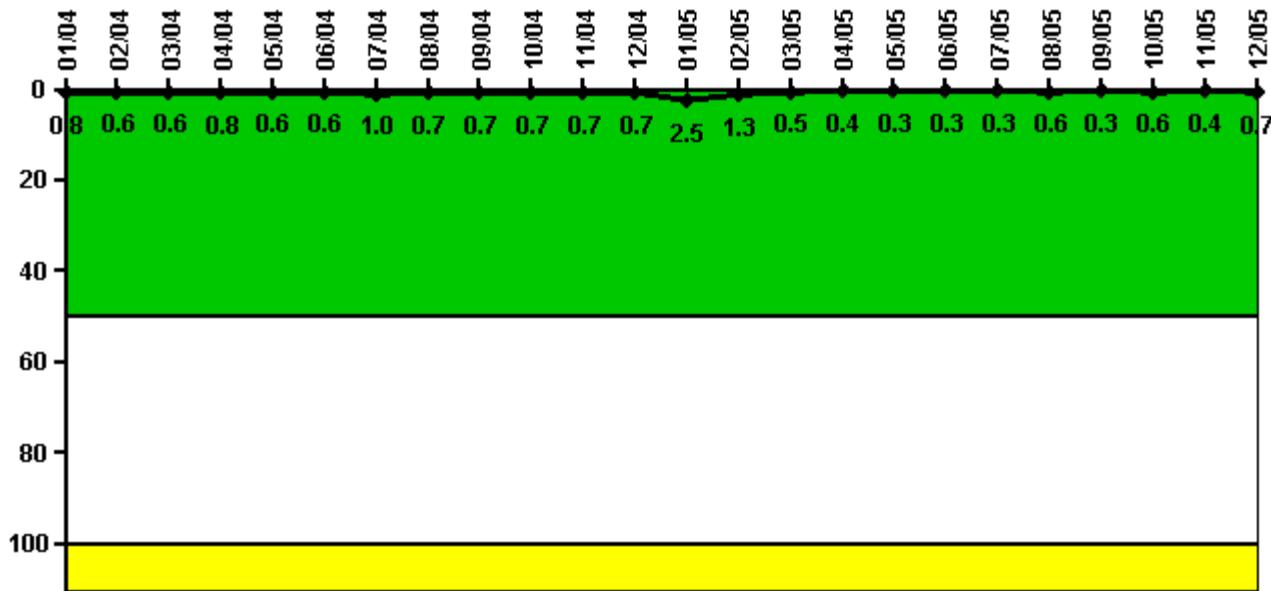
Thresholds: White > 5.0

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	0	1	0	0	0
Indicator value	0	0	0	0	1	1	1	1

Licensee Comments: none

Reactor Coolant System Activity



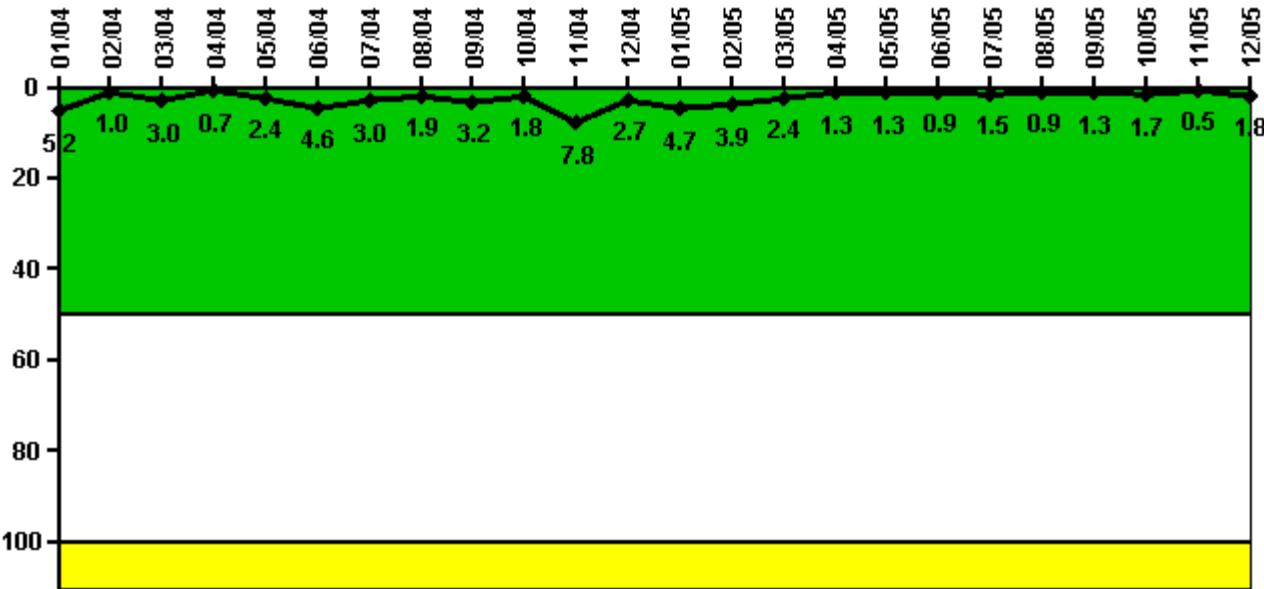
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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	0.008230	0.006480	0.006130	0.007520	0.005780	0.006260	0.010300	0.007170	0.006560	0.007020	0.007020	0.006850
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	0.8	0.6	0.6	0.8	0.6	0.6	1.0	0.7	0.7	0.7	0.7	0.7
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	0.025100	0.012700	0.005490	0.003780	0.003410	0.003020	0.003010	0.005790	0.003180	0.005620	0.004070	0.006690
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	2.5	1.3	0.5	0.4	0.3	0.3	0.3	0.6	0.3	0.6	0.4	0.7

Licensee Comments: none

Reactor Coolant System Leakage



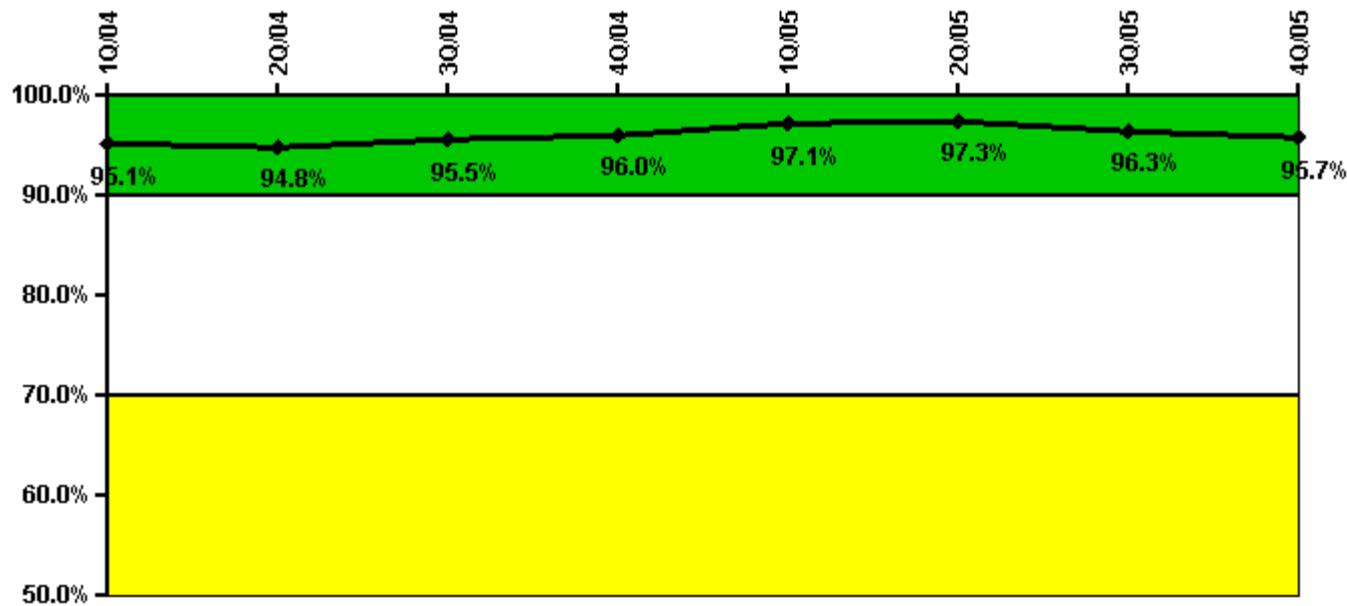
Thresholds: White > 50.0 Yellow > 100.0

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	0.520	0.100	0.300	0.070	0.240	0.460	0.300	0.190	0.320	0.176	0.783	0.269
Indicator value	5.2	1.0	3.0	0.7	2.4	4.6	3.0	1.9	3.2	1.8	7.8	2.7
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	0.470	0.392	0.236	0.130	0.130	0.090	0.147	0.093	0.134	0.170	0.050	0.180
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	4.7	3.9	2.4	1.3	1.3	0.9	1.5	0.9	1.3	1.7	0.5	1.8

Licensee Comments: none

Drill/Exercise Performance



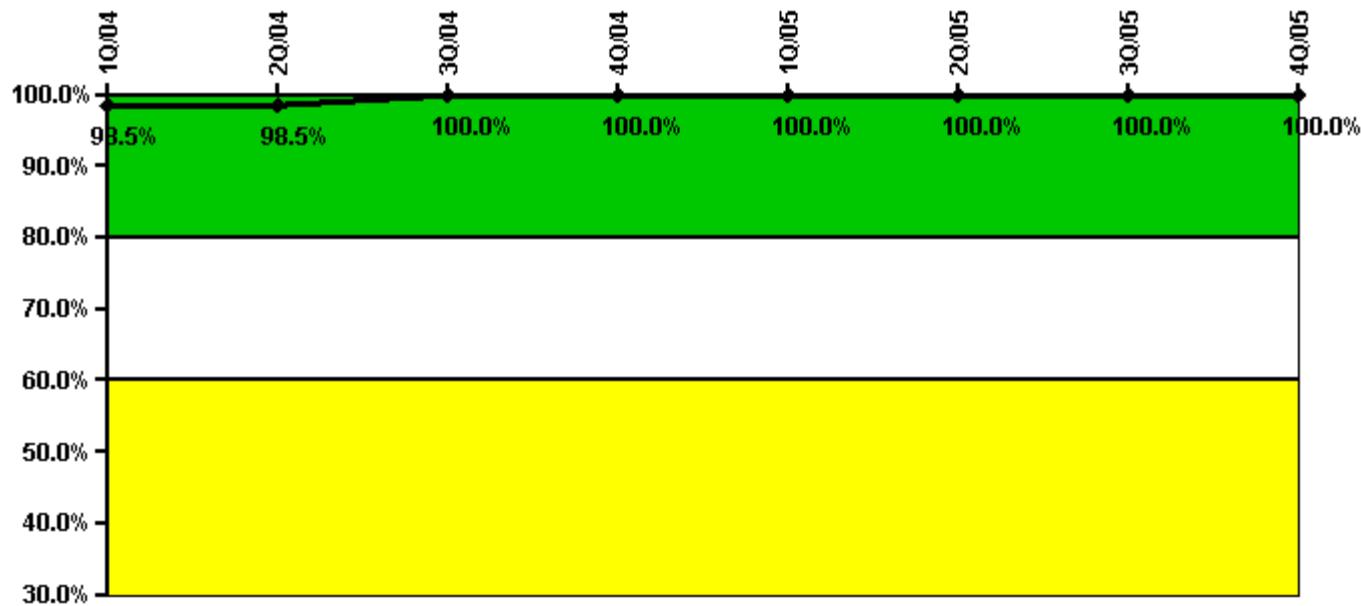
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful opportunities	18.0	14.0	26.0	72.0	2.0	0	49.0	107.0
Total opportunities	19.0	15.0	27.0	74.0	2.0	0	52.0	112.0
Indicator value	95.1%	94.8%	95.5%	96.0%	97.1%	97.3%	96.3%	95.7%

Licensee Comments: none

ERO Drill Participation



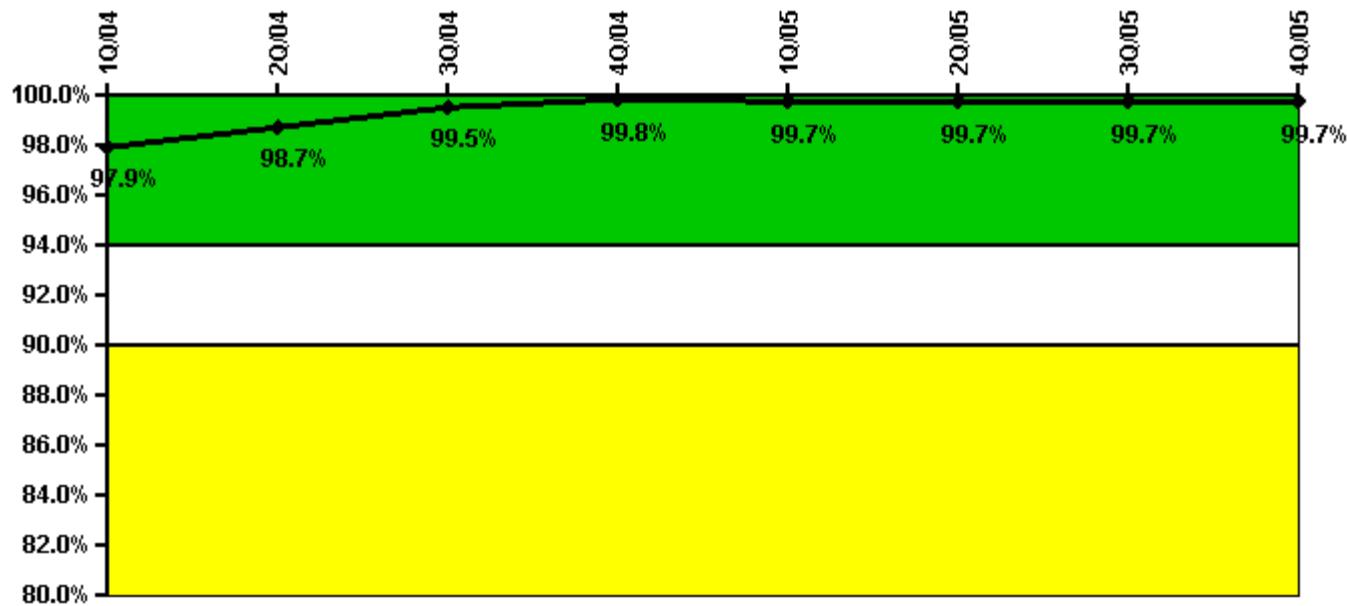
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Participating Key personnel	65.0	65.0	68.0	68.0	65.0	62.0	62.0	59.0
Total Key personnel	66.0	66.0	68.0	68.0	65.0	62.0	62.0	59.0
Indicator value	98.5%	98.5%	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/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful siren-tests	935	932	934	948	944	944	949	946
Total sirens-tests	936	936	936	949	949	949	949	949
Indicator value	97.9%	98.7%	99.5%	99.8%	99.7%	99.7%	99.7%	99.7%

Licensee Comments: none

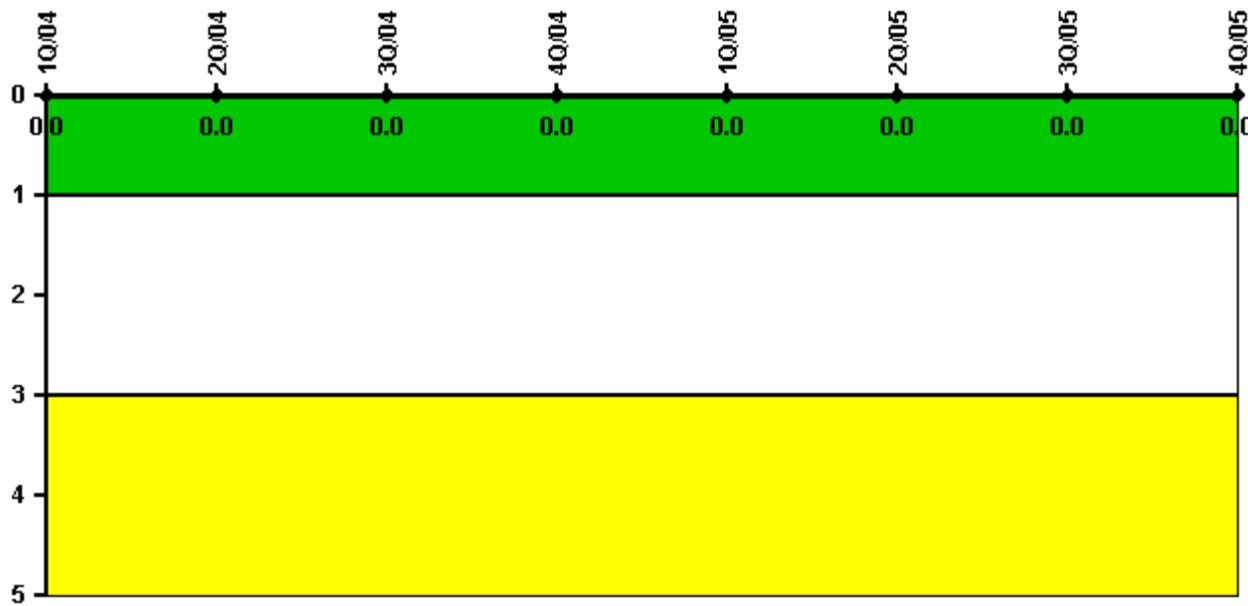
Occupational Exposure Control Effectiveness

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	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/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](#)

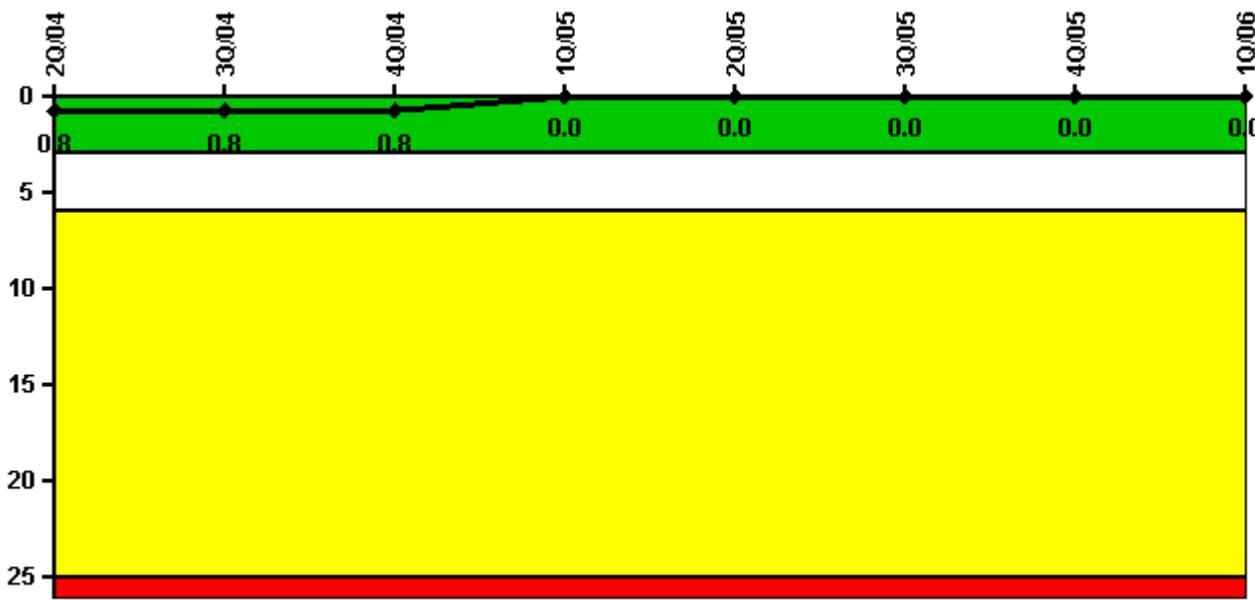
Last Modified: January 30, 2006

Calvert Cliffs 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	0	0	0	0	0	0	0	0
Critical hours	2183.0	2208.0	2209.0	1685.9	2183.0	2208.0	2209.0	2160.0
Indicator value	0.8	0.8	0.8	0	0	0	0	0

Licensee Comments: none

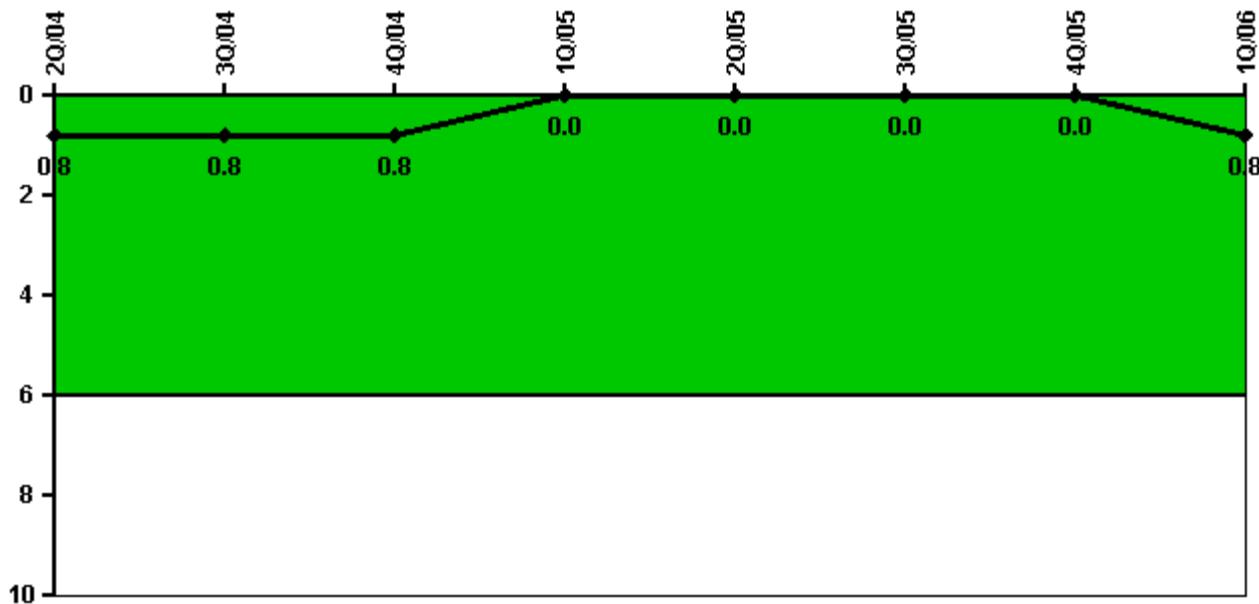
Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

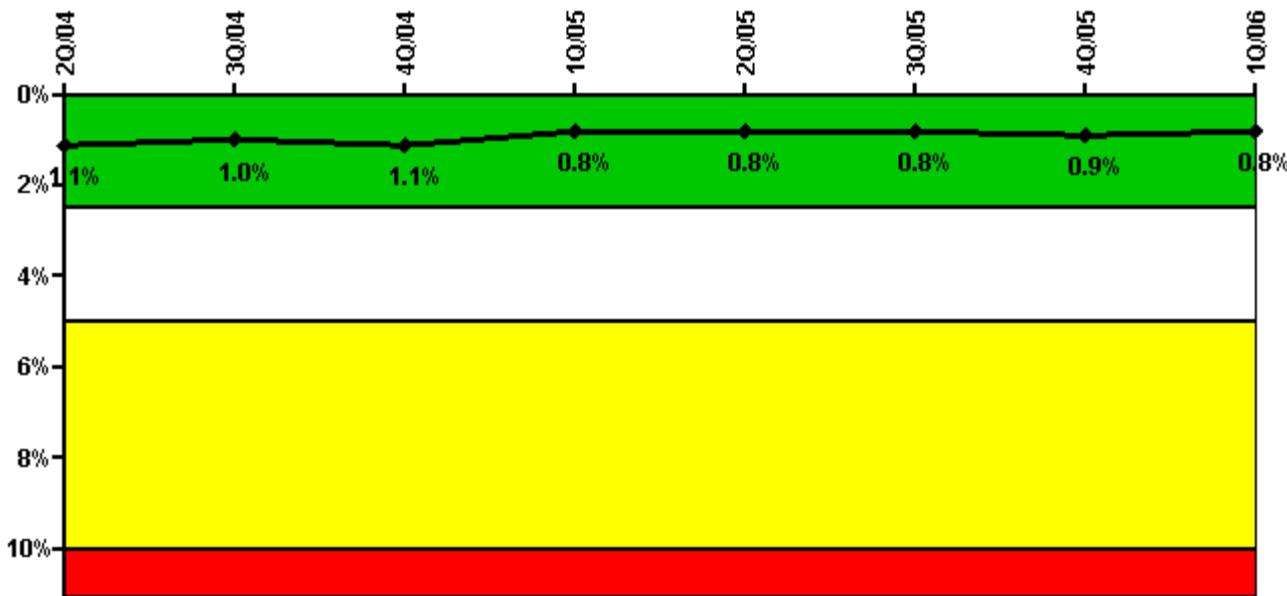
Thresholds: White > 6.0

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	1.0
Critical hours	2183.0	2208.0	2209.0	1685.9	2183.0	2208.0	2209.0	2160.0
Indicator value	0.8	0.8	0.8	0	0	0	0	0.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



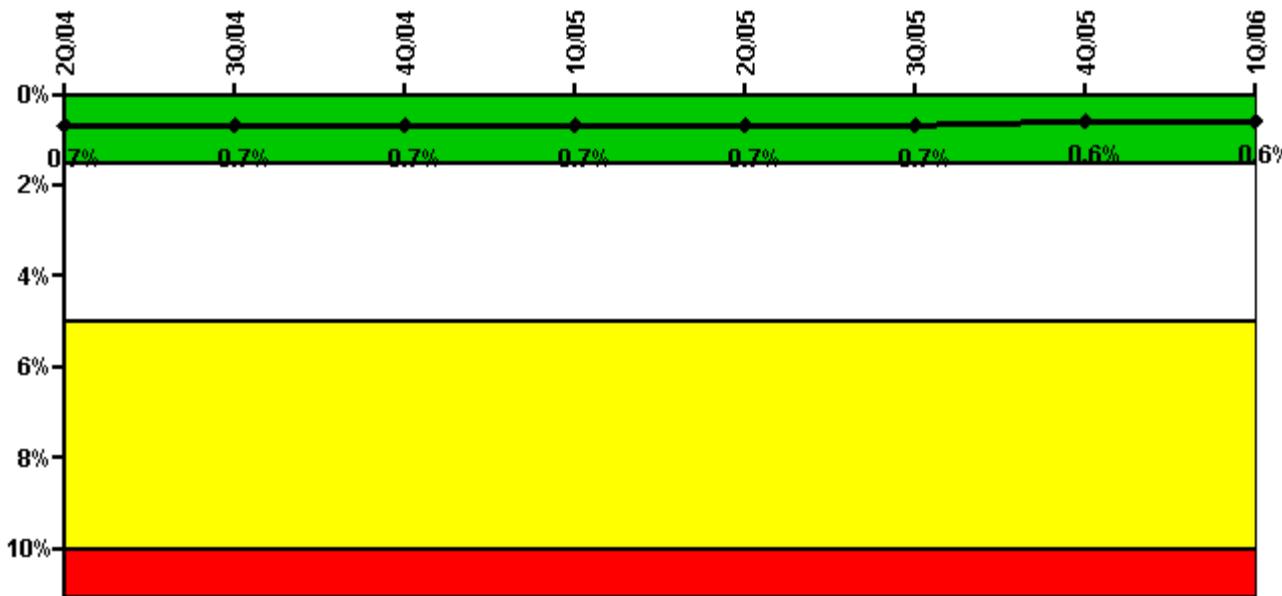
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

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	0	0	16.81	0	1.50	0	42.00	0
Unplanned unavailable hours	0	0	16.00	8.07	0	0	47.05	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	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	11.61	18.84	2.90	0	13.35	0	0	0
Unplanned unavailable hours	0.91	0	0	0	0.25	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	2183.00	2208.00	2209.00	2160.00
Indicator value	1.1%	1.0%	1.1%	0.8%	0.8%	0.8%	0.9%	0.8%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



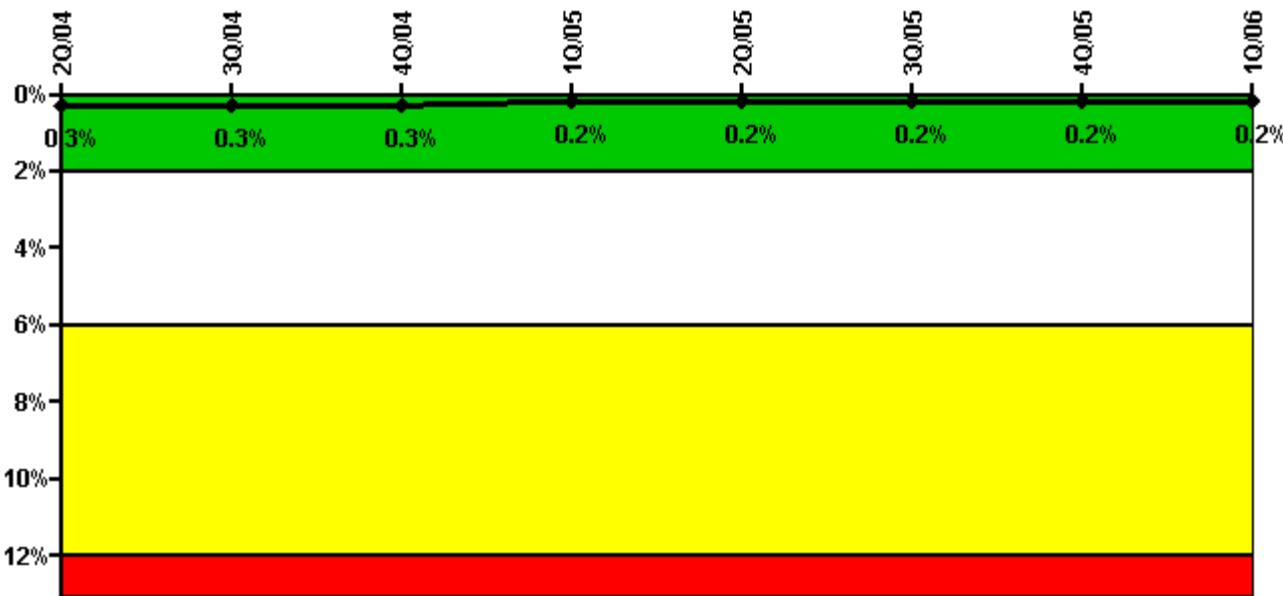
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	3.00	0.59	9.35	18.92	3.38	2.48	1.61	17.78
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	2183.00	2208.00	2209.00	1685.89	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	3.00	24.01	1.00	15.30	1.88	23.73	1.61	25.25
Unplanned unavailable hours	0.33	0	0	0	0	12.80	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	2183.00	2208.00	2209.00	1685.89	2183.00	2208.00	2209.00	2160.00
Indicator value	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.6%	0.6%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



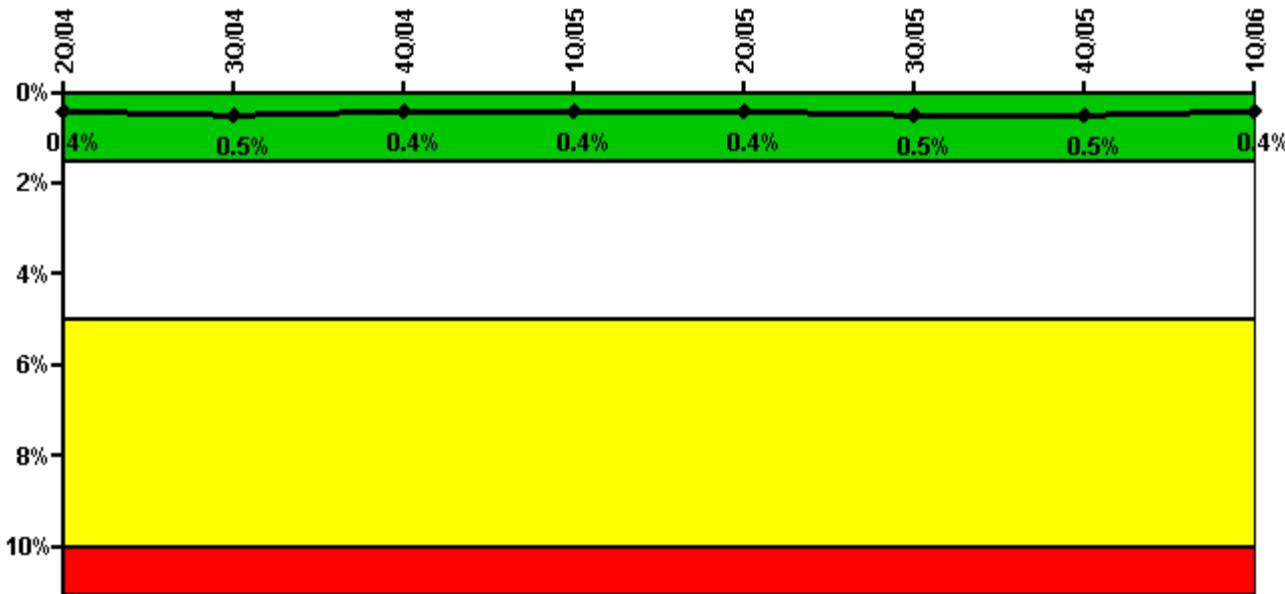
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	2.79	0.68	5.82	0.78	0.63	0	1.08	0.75
Unplanned unavailable hours	0	0	0	1.00	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	1685.89	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	0	4.77	1.02	0.43	9.80	1.10	0.75	0.45
Unplanned unavailable hours	0	4.25	11.03	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	1685.89	2183.00	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	0	43.08	0	0	0	0	0	16.30
Unplanned unavailable hours	0	0	0	0	0	9.69	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	1685.89	2183.00	2208.00	2209.00	2160.00
Indicator value	0.3%	0.3%	0.3%	0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



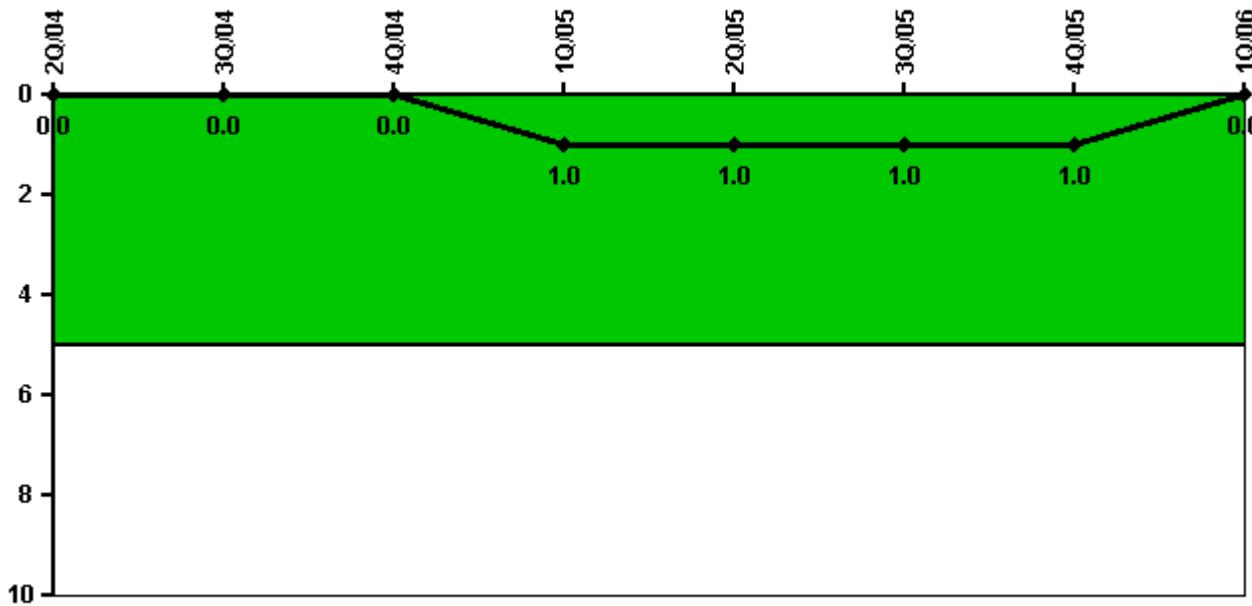
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	0	0	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	0	0	0	430.89	0	0	0	0
Train 2								
Planned unavailable hours	0	0	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	0	0	0	430.89	0	0	0	0
Train 3								
Planned unavailable hours	1.38	12.73	15.64	21.30	3.00	34.11	19.95	25.28
Unplanned unavailable hours	0	4.60	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	1729.11	2183.00	2208.00	2209.00	2160.00
Train 4								
Planned unavailable hours	1.17	32.52	2.92	19.73	2.77	41.25	3.93	27.79
Unplanned unavailable hours	0.33	4.82	0	0	0	14.40	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	1729.11	2183.00	2208.00	2209.00	2160.00
Indicator value								
	0.4%	0.5%	0.4%	0.4%	0.4%	0.5%	0.5%	0.4%

Licensee Comments: none

Safety System Functional Failures (PWR)



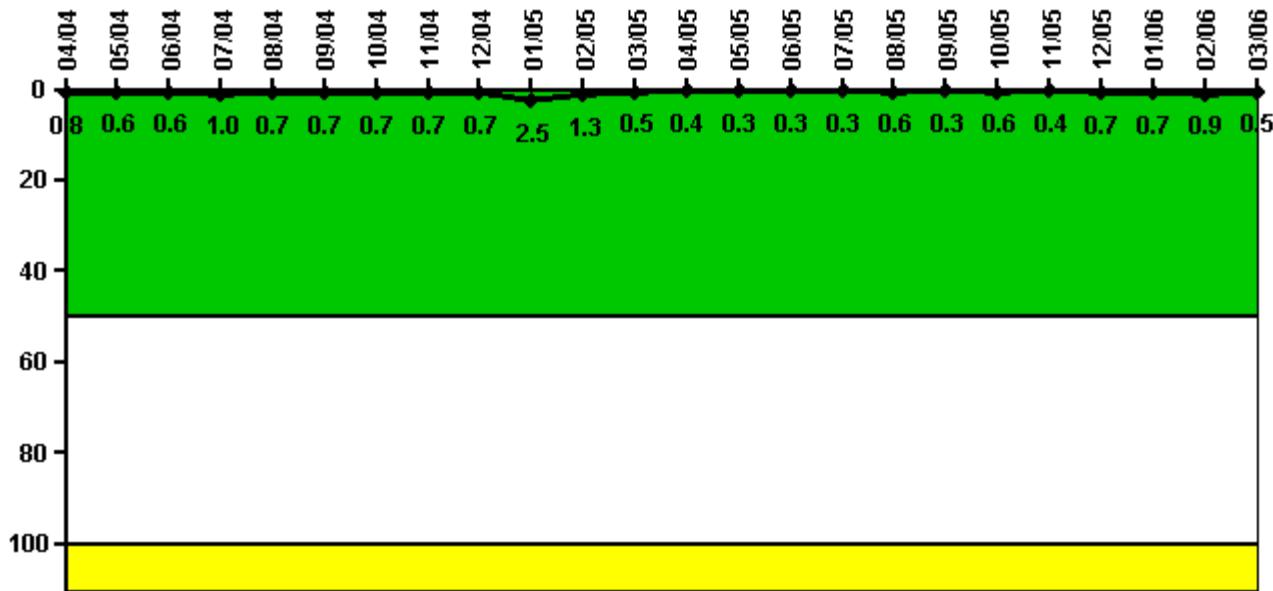
Thresholds: White > 5.0

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	0	1	0	0	0	0
Indicator value	0	0	0	1	1	1	1	0

Licensee Comments: none

Reactor Coolant System Activity



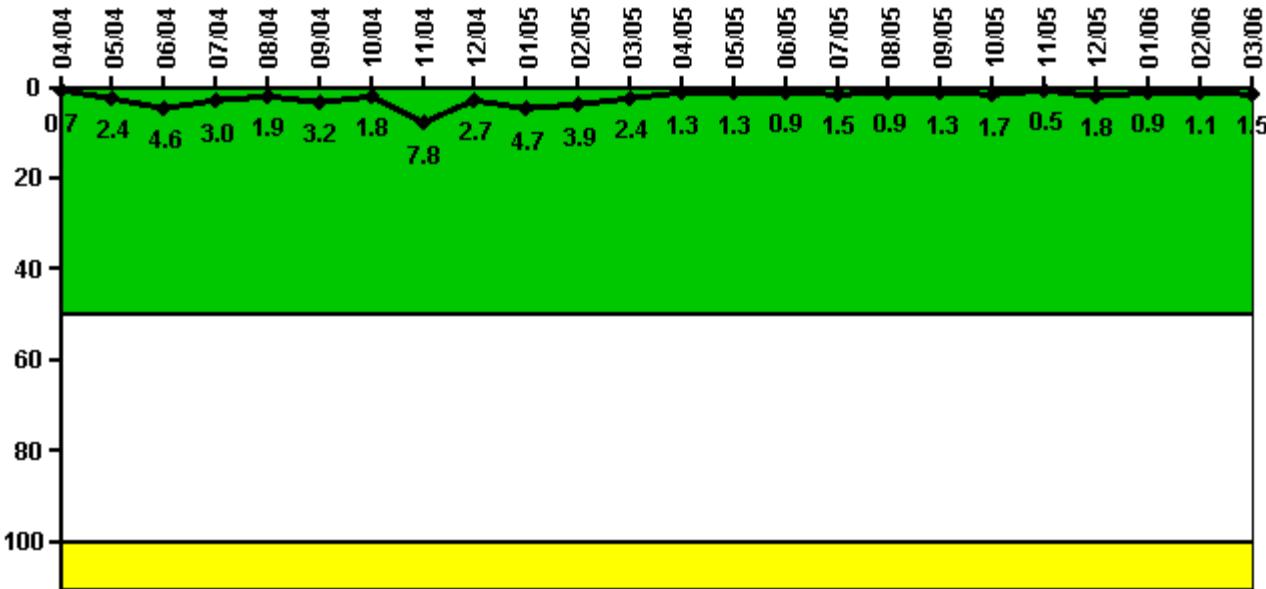
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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	0.007520	0.005780	0.006260	0.010300	0.007170	0.006560	0.007020	0.007020	0.006850	0.025100	0.012700	0.005490
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	0.8	0.6	0.6	1.0	0.7	0.7	0.7	0.7	0.7	2.5	1.3	0.5
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	0.003780	0.003410	0.003020	0.003010	0.005790	0.003180	0.005620	0.004070	0.006690	0.006580	0.008720	0.005310
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	0.4	0.3	0.3	0.3	0.6	0.3	0.6	0.4	0.7	0.7	0.9	0.5

Licensee Comments: none

Reactor Coolant System Leakage



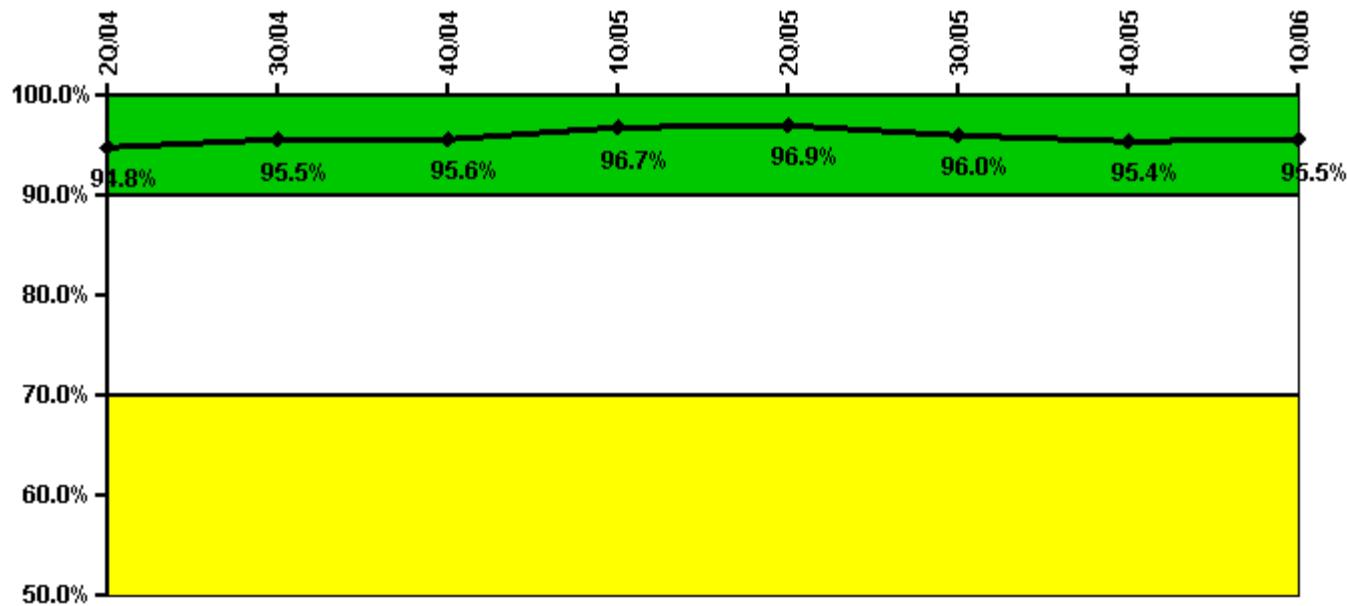
Thresholds: White > 50.0 Yellow > 100.0

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	0.070	0.240	0.460	0.300	0.190	0.320	0.176	0.783	0.269	0.470	0.392	0.236
Indicator value	0.7	2.4	4.6	3.0	1.9	3.2	1.8	7.8	2.7	4.7	3.9	2.4
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	0.130	0.130	0.090	0.147	0.093	0.134	0.170	0.050	0.180	0.086	0.105	0.153
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	1.3	1.3	0.9	1.5	0.9	1.3	1.7	0.5	1.8	0.9	1.1	1.5

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

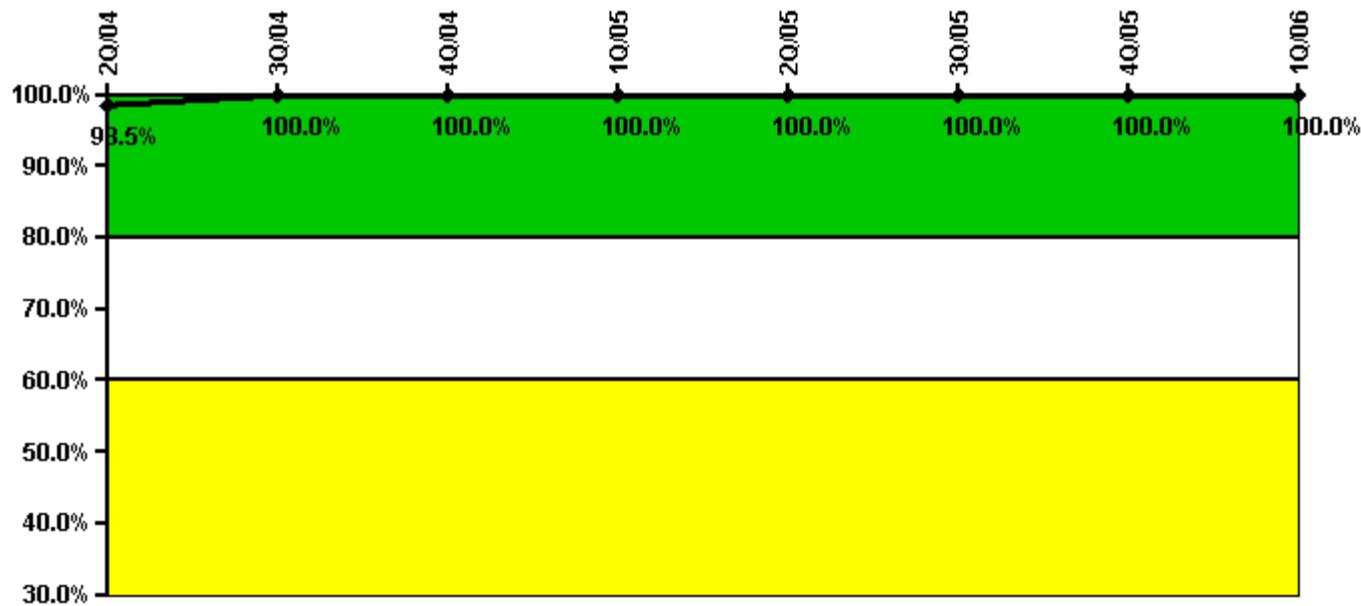
Notes

Drill/Exercise Performance	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful opportunities	14.0	26.0	72.0	2.0	0	49.0	107.0	4.0
Total opportunities	15.0	27.0	75.0	2.0	0	52.0	112.0	4.0
Indicator value	94.8%	95.5%	95.6%	96.7%	96.9%	96.0%	95.4%	95.5%

Licensee Comments:

4Q/04: November 2004 Drill and Exercise Performance has been revised to show one additional opportunity to perform classifications, notifications and PARs.

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	65.0	68.0	68.0	65.0	62.0	62.0	59.0	56.0
Total Key personnel	66.0	68.0	68.0	65.0	62.0	62.0	59.0	56.0
Indicator value	98.5%	100.0%						

Licensee Comments: none

Alert & Notification System

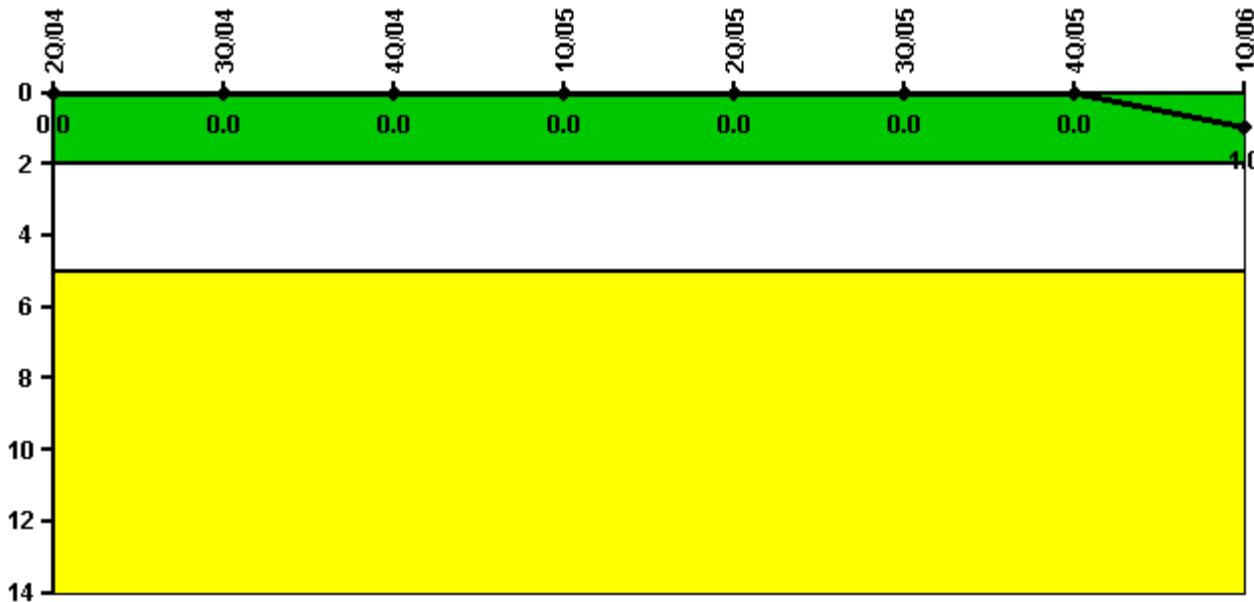


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful siren-tests	932	934	948	944	944	949	946	947
Total sirens-tests	936	936	949	949	949	949	949	949
Indicator value	98.7%	99.5%	99.8%	99.7%	99.7%	99.7%	99.7%	99.7%

Licensee Comments: none

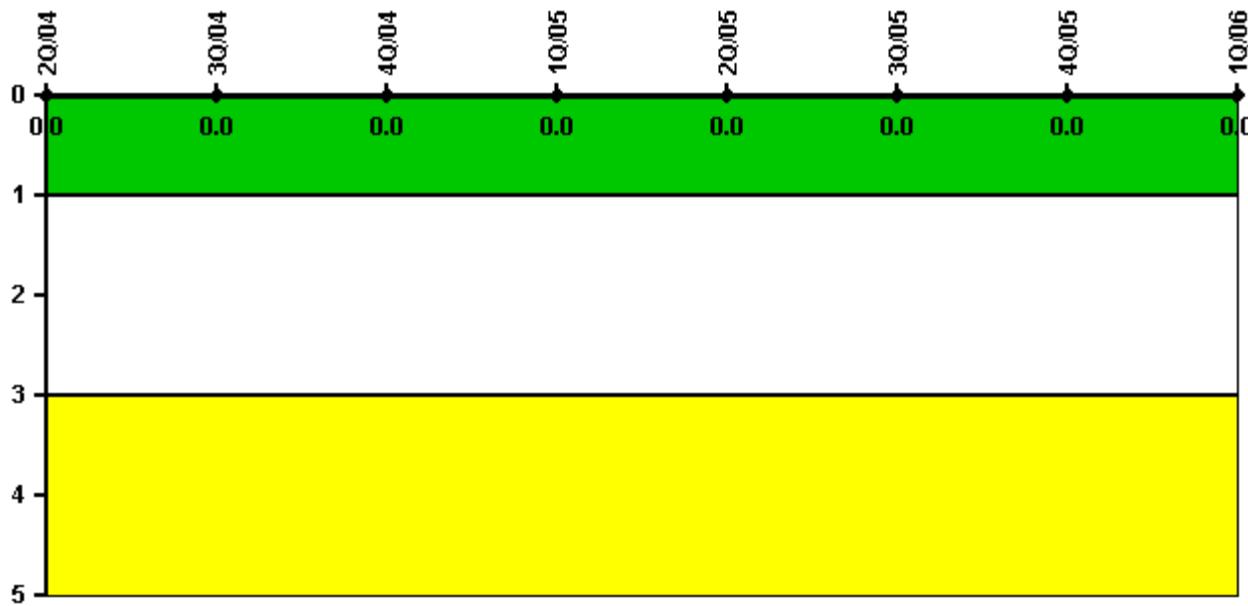
Occupational Exposure Control Effectiveness

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	0	0	0	1
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						

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.

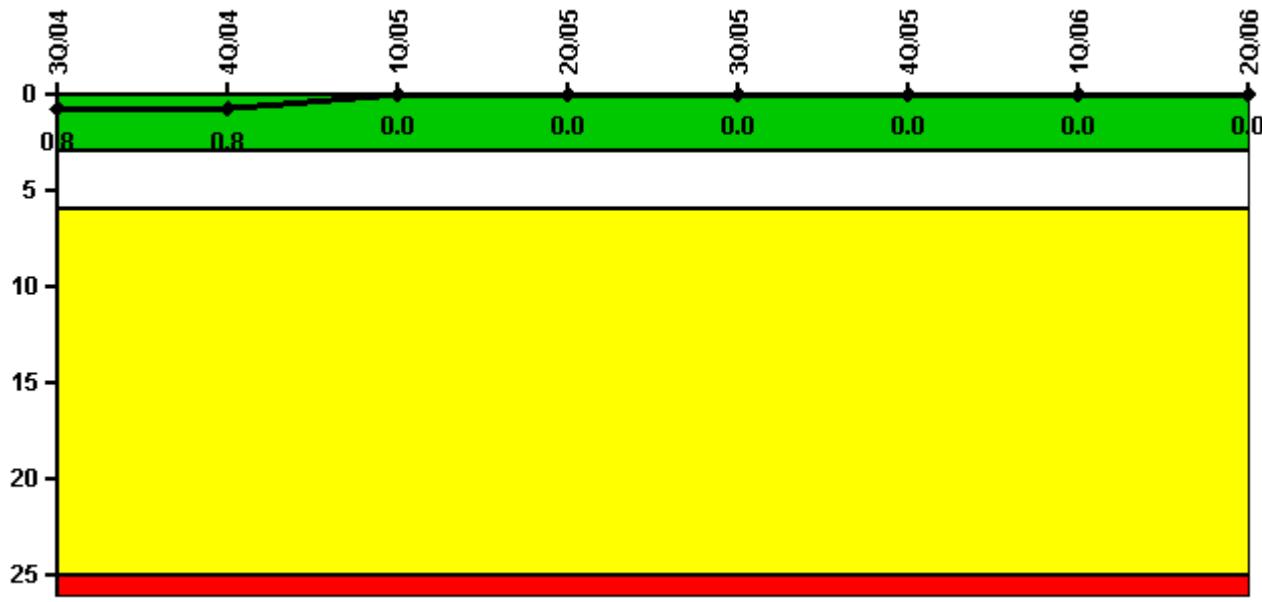


[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: May 5, 2006

Calvert Cliffs 2**2Q/2006 Performance Indicators**

Licensee's General Comments: none

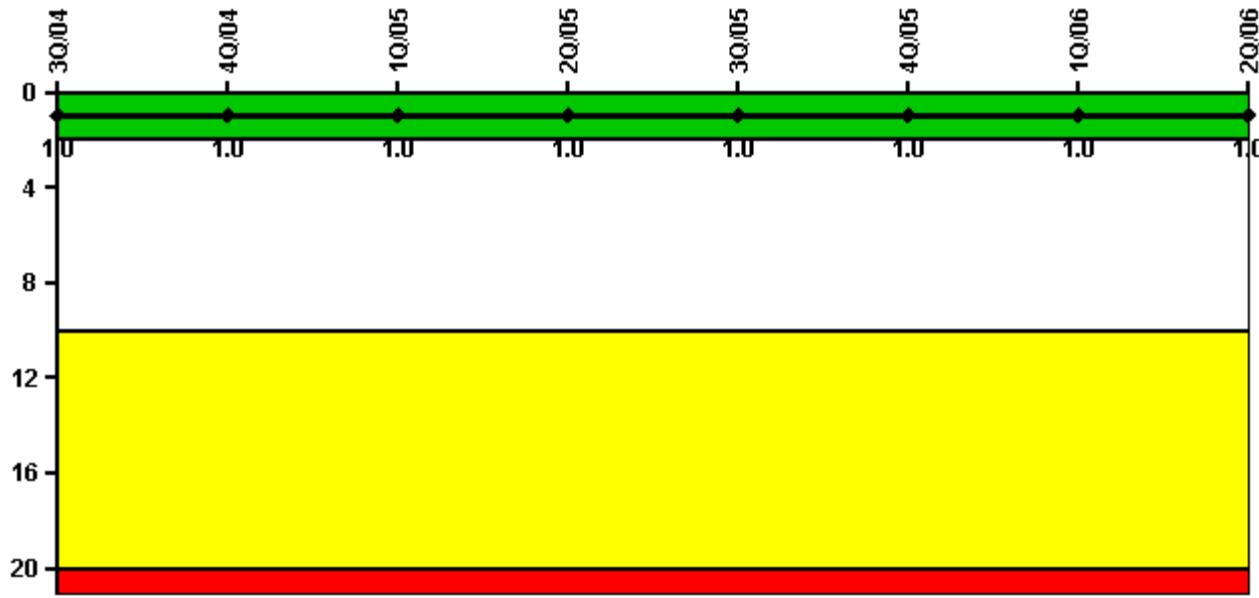
Unplanned Scrams per 7000 Critical Hrs

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	0	0	0
Critical hours	2208.0	2209.0	1685.9	2183.0	2208.0	2209.0	2160.0	2183.0
Indicator value	0.8	0.8	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

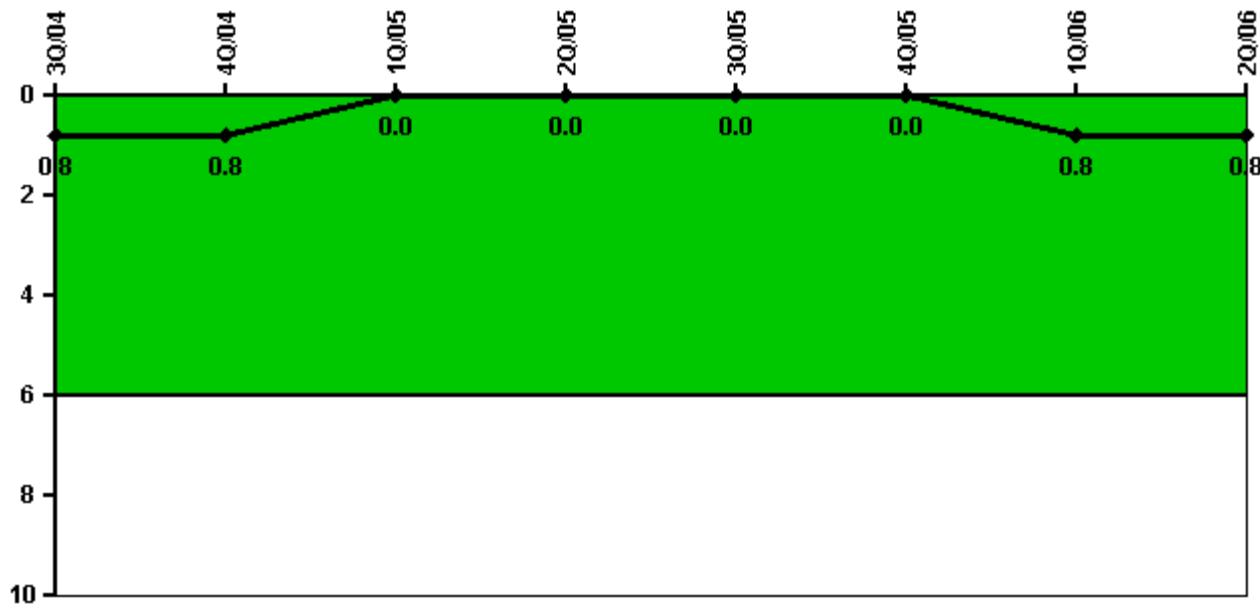
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

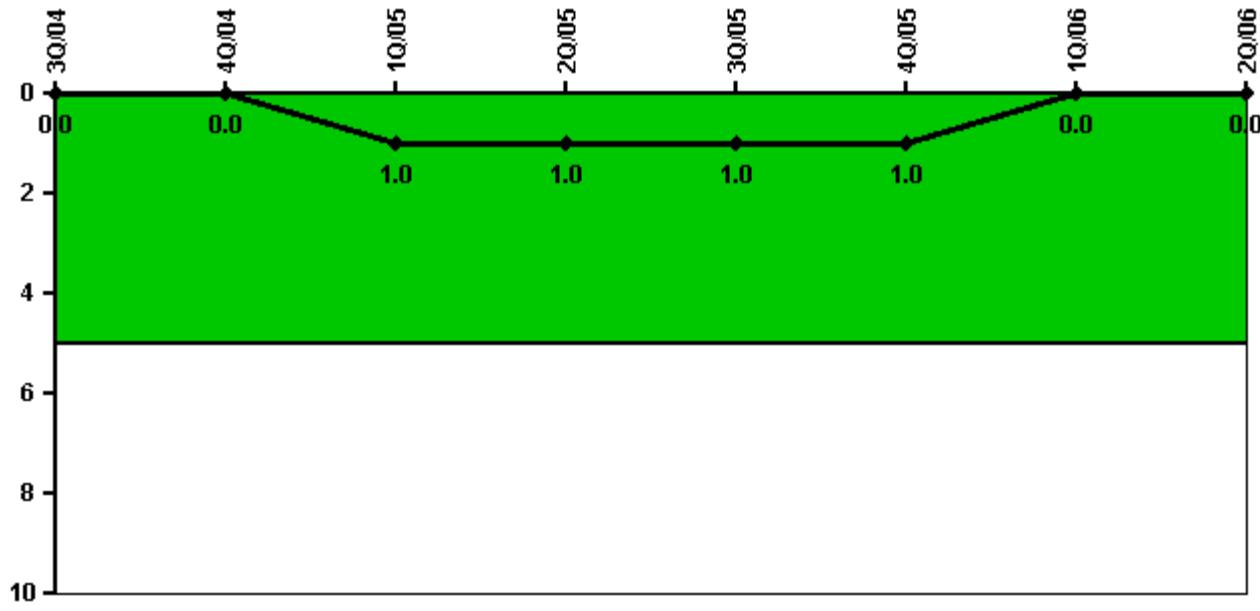


Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	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	1.0	0
Critical hours	2208.0	2209.0	1685.9	2183.0	2208.0	2209.0	2160.0	2183.0
Indicator value	0.8	0.8	0	0	0	0	0.8	0.8

Licensee Comments: none

Safety System Functional Failures (PWR)

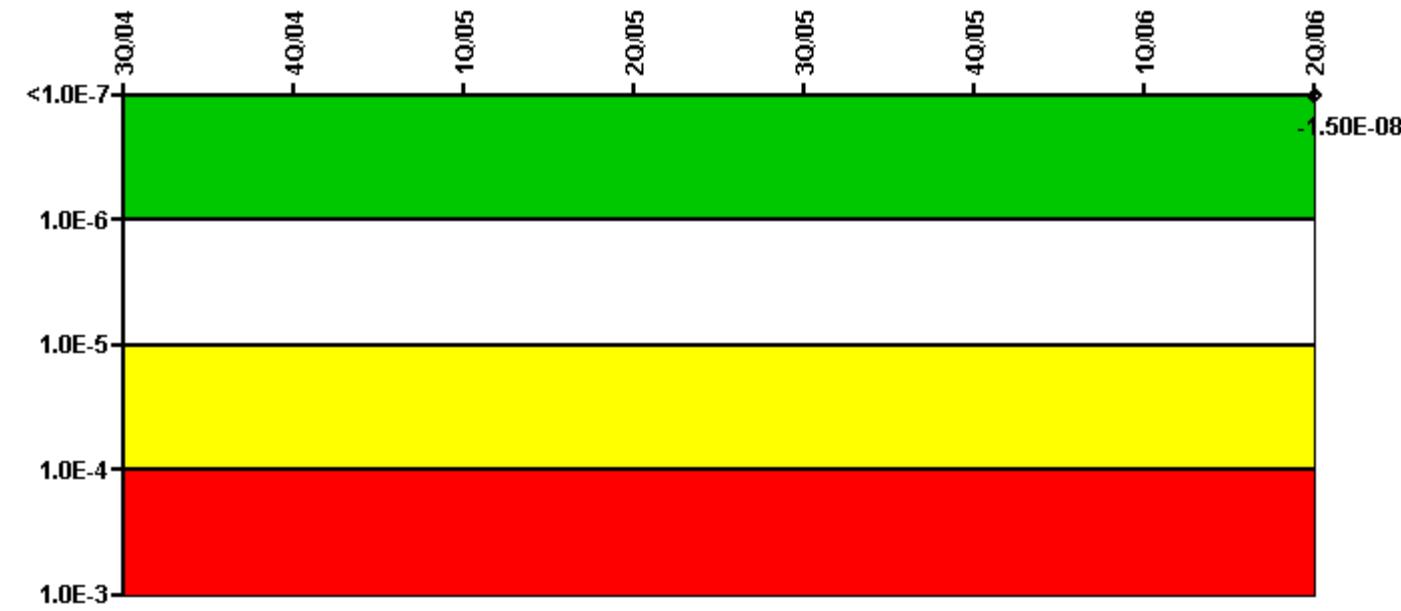
Thresholds: White > 5.0

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	0	1	0	0	0	0	0
Indicator value	0	0	1	1	1	1	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



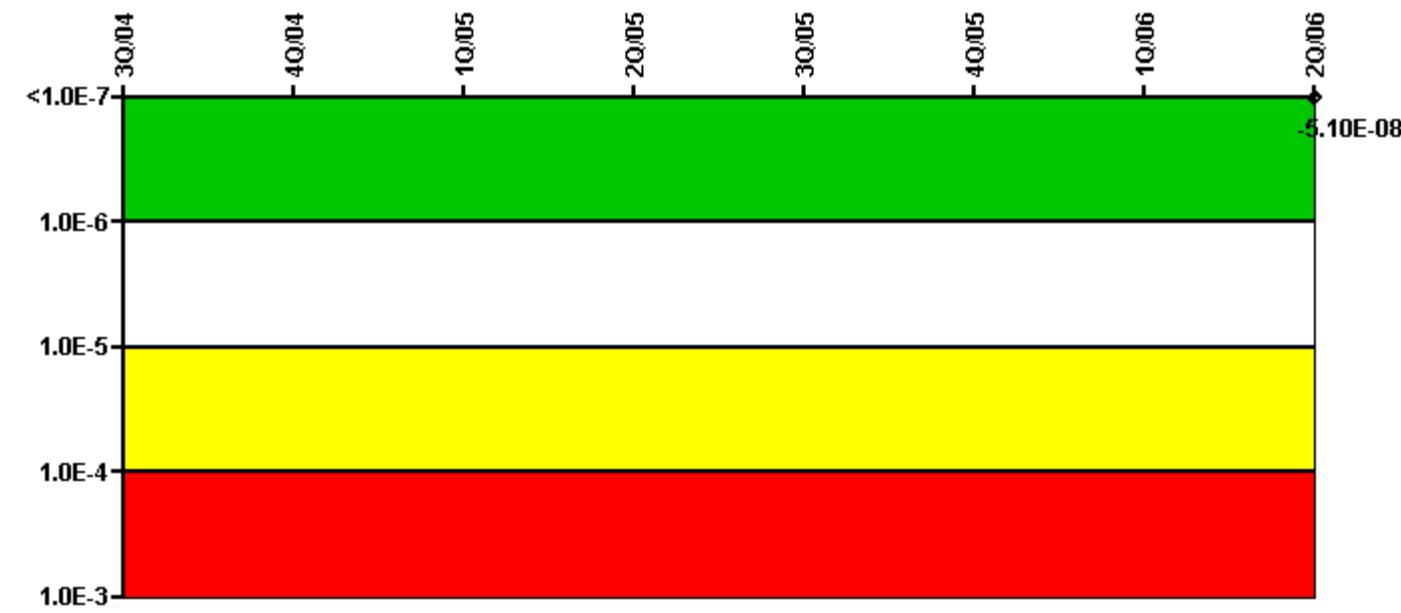
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (Δ CDF)								3.10E-08
URI (Δ CDF)								-4.60E-08
PLE								NO
Indicator value								-1.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



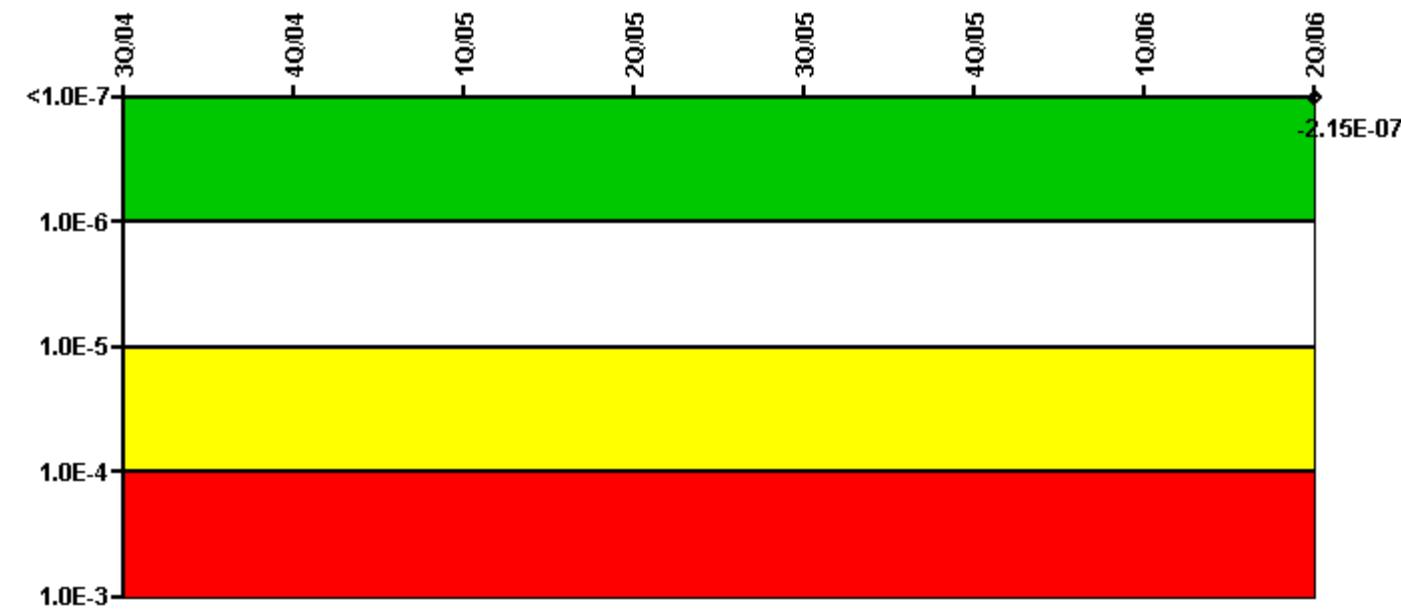
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (Δ CDF)								2.80E-08
URI (Δ CDF)								-7.90E-08
PLE								NO
Indicator value								-5.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



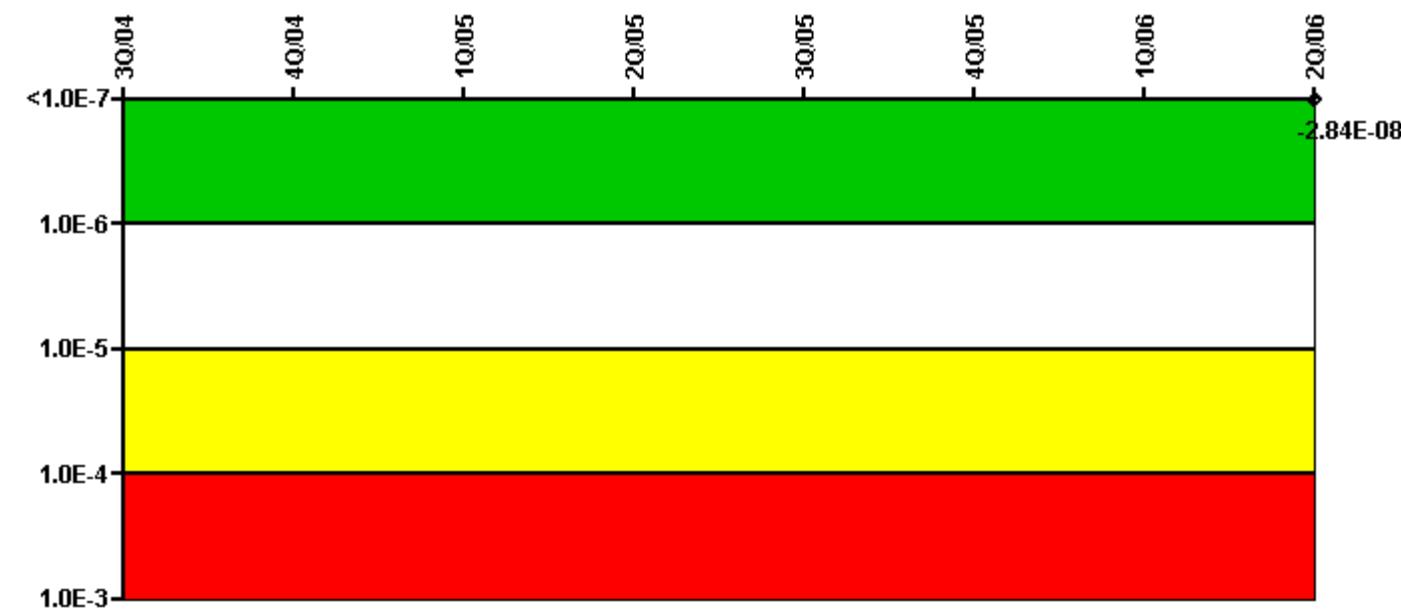
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)								2.50E-08
URI (Δ CDF)								-2.40E-07
PLE								NO
Indicator value								-2.15E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



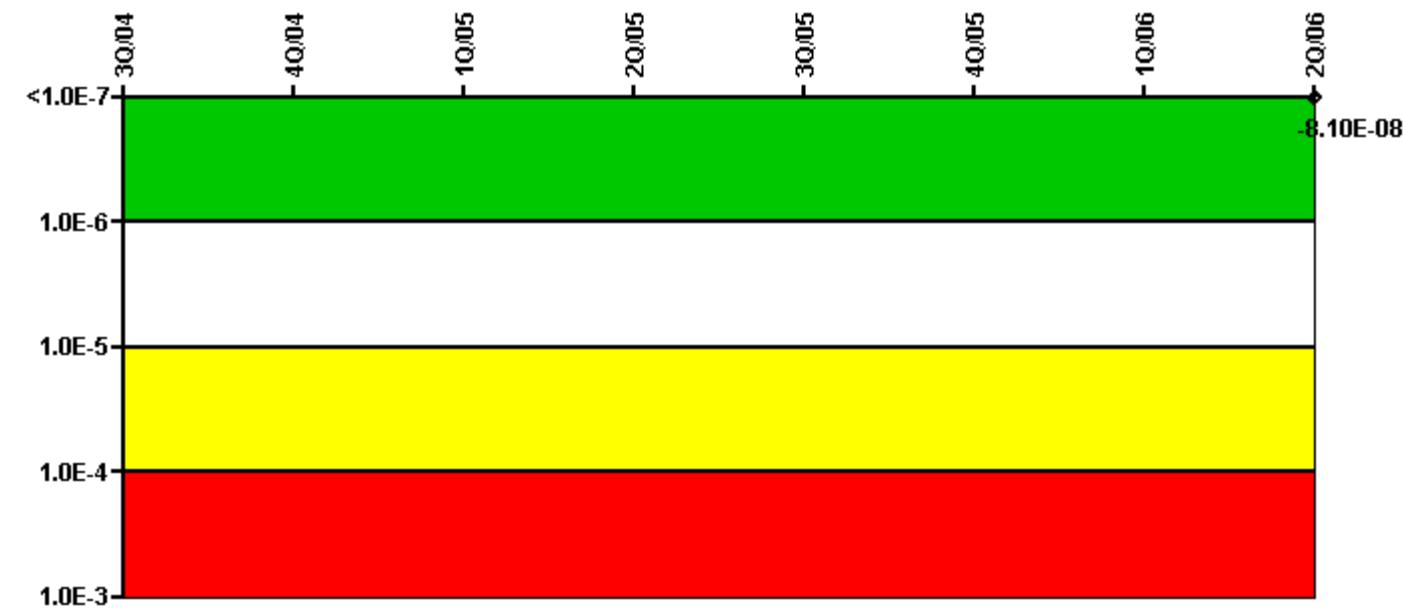
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)								-2.40E-08
URI (Δ CDF)								-4.40E-09
PLE								NO
Indicator value								-2.84E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



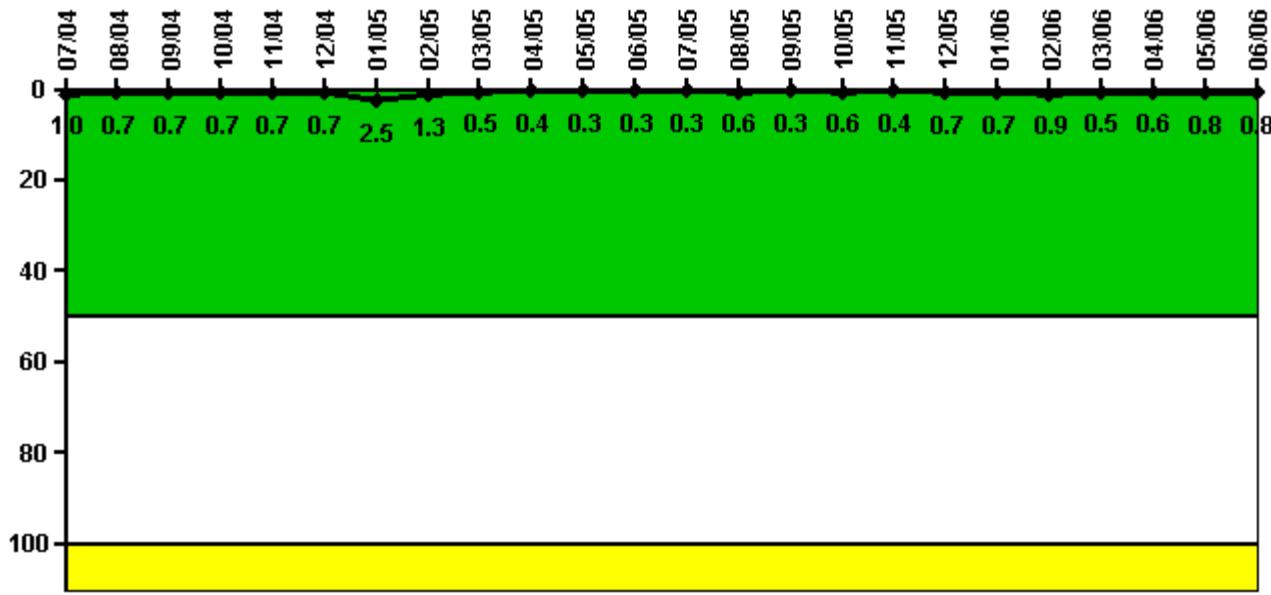
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (Δ CDF)								1.00E-08
URI (Δ CDF)								-9.10E-08
PLE								NO
Indicator value								-8.10E-08

Licensee Comments: none

Reactor Coolant System Activity



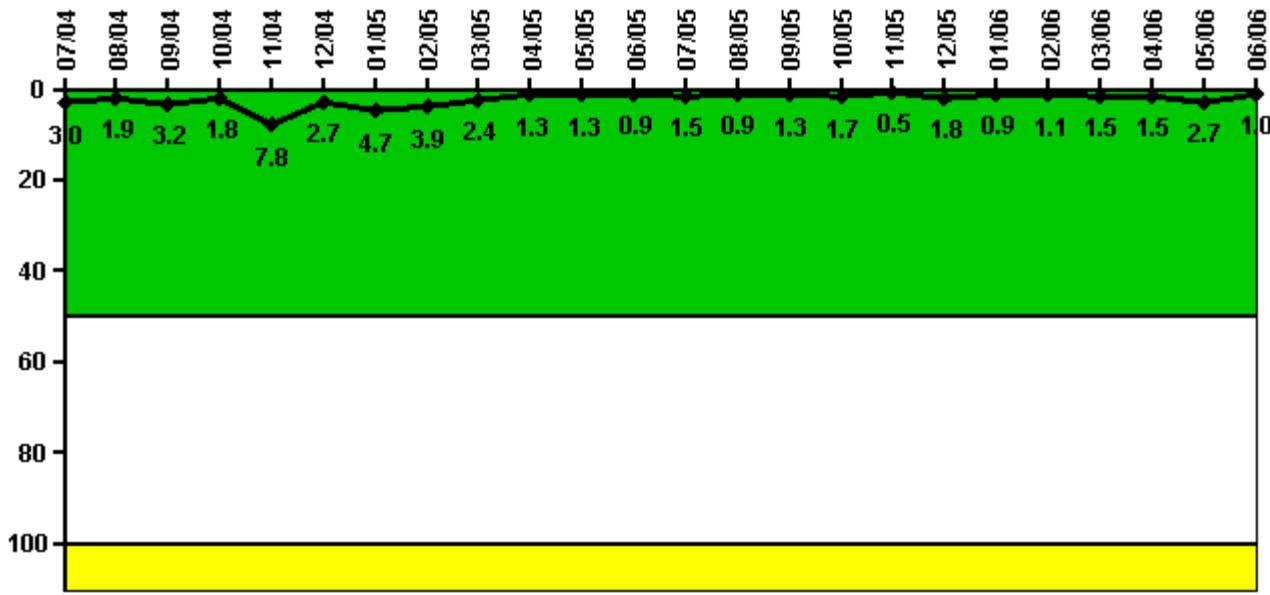
Thresholds: White > 50.0 Yellow > 100.0

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	0.010300	0.007170	0.006560	0.007020	0.007020	0.006850	0.025100	0.012700	0.005490	0.003780	0.003410	0.003020
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	1.0	0.7	0.7	0.7	0.7	0.7	2.5	1.3	0.5	0.4	0.3	0.3
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	0.003010	0.005790	0.003180	0.005620	0.004070	0.006690	0.006580	0.008720	0.005310	0.005820	0.007540	0.008390
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	0.3	0.6	0.3	0.6	0.4	0.7	0.7	0.9	0.5	0.6	0.8	0.8

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

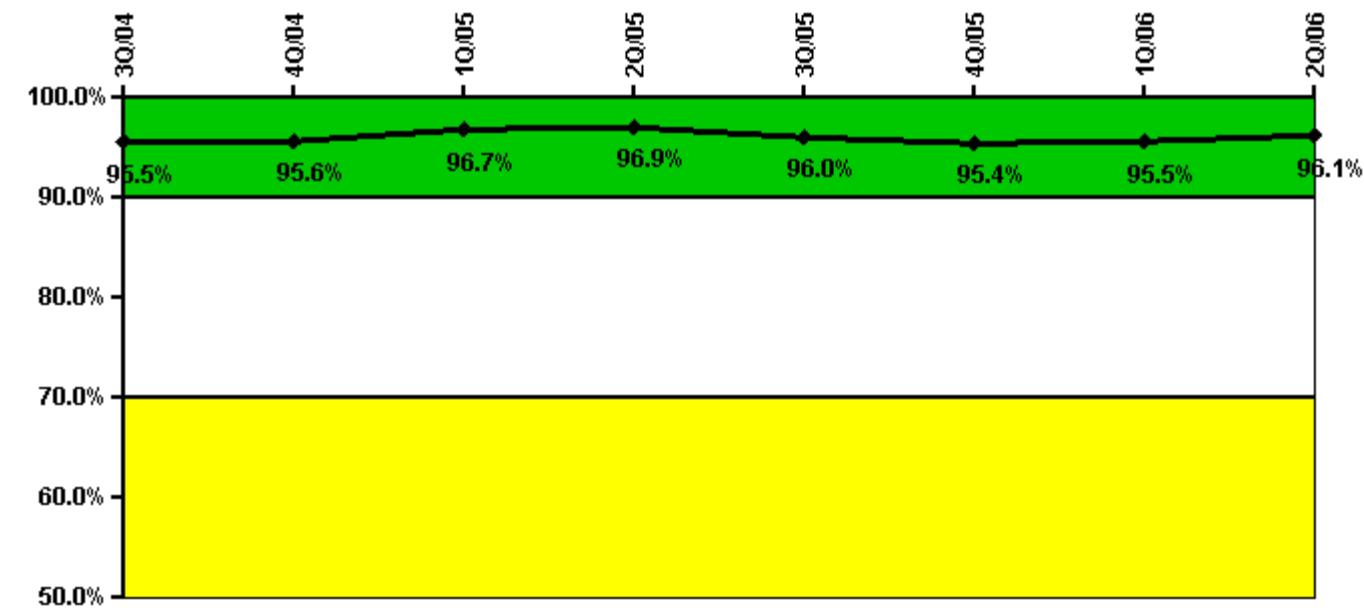
Notes

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	0.300	0.190	0.320	0.176	0.783	0.269	0.470	0.392	0.236	0.130	0.130	0.090
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	3.0	1.9	3.2	1.8	7.8	2.7	4.7	3.9	2.4	1.3	1.3	0.9

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	0.147	0.093	0.134	0.170	0.050	0.180	0.086	0.105	0.153	0.150	0.273	0.097
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	1.5	0.9	1.3	1.7	0.5	1.8	0.9	1.1	1.5	1.5	2.7	1.0

Licensee Comments: none

Drill/Exercise Performance

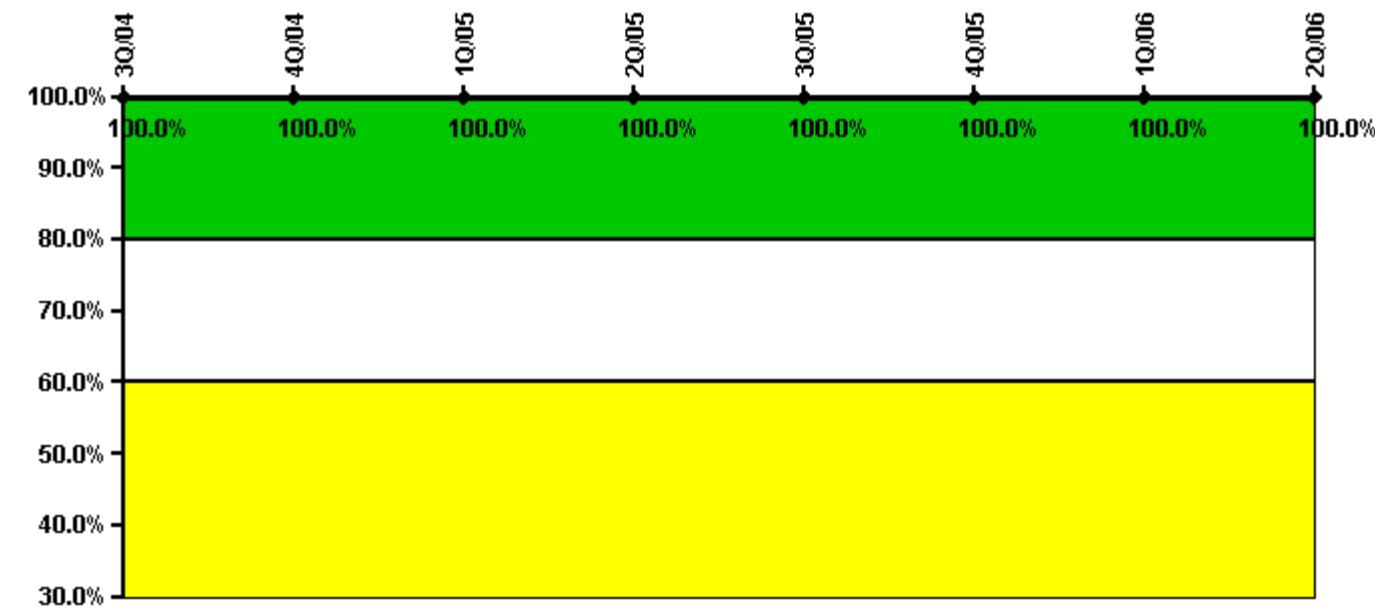


Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful opportunities	26.0	72.0	2.0	0	49.0	107.0	4.0	58.0
Total opportunities	27.0	75.0	2.0	0	52.0	112.0	4.0	59.0
Indicator value	95.5%	95.6%	96.7%	96.9%	96.0%	95.4%	95.5%	96.1%

Licensee Comments: none

ERO Drill Participation

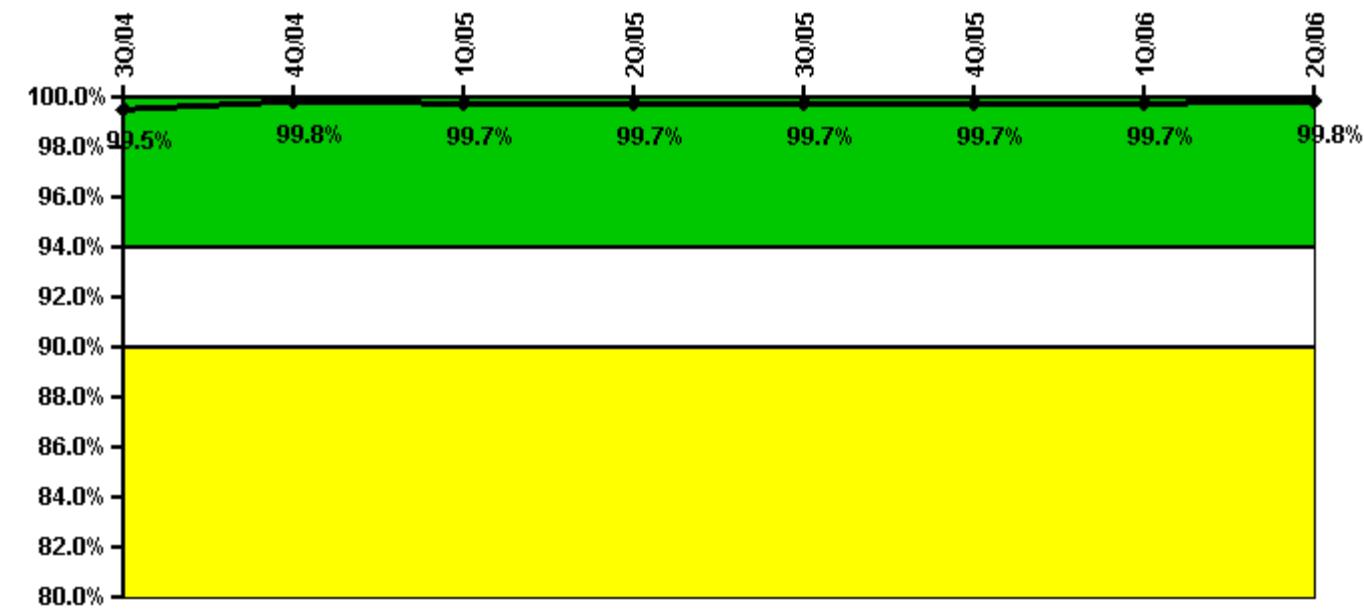
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Participating Key personnel	68.0	68.0	65.0	62.0	62.0	59.0	56.0	68.0
Total Key personnel	68.0	68.0	65.0	62.0	62.0	59.0	56.0	68.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System

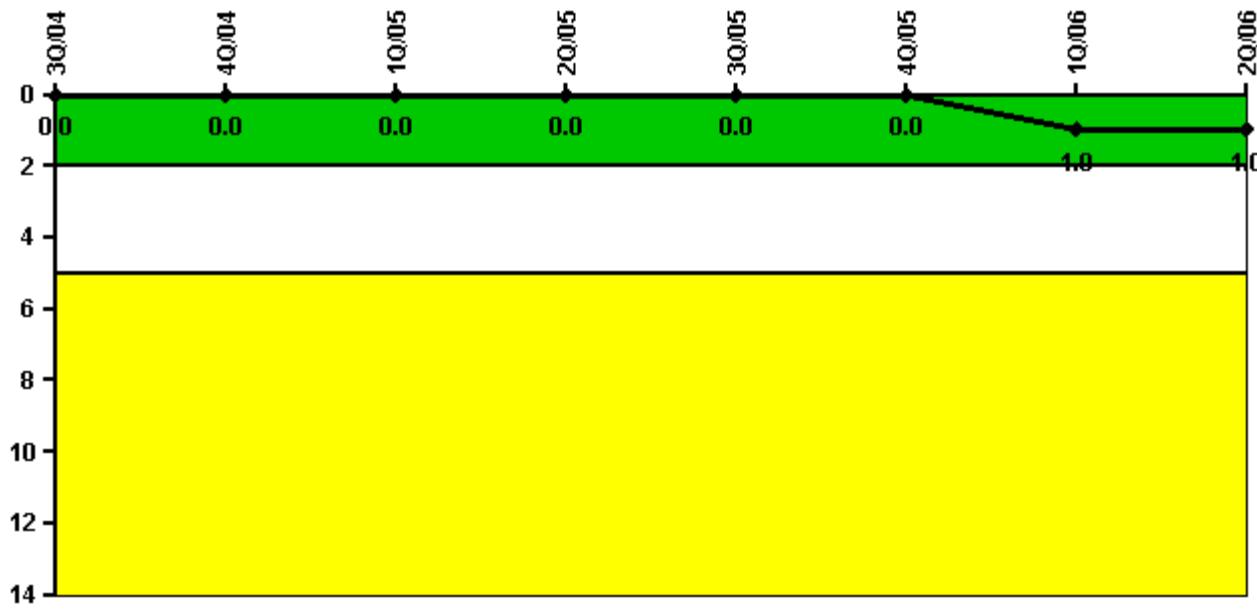


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful siren-tests	934	948	944	944	949	946	947	948
Total sirens-tests	936	949	949	949	949	949	949	949
Indicator value	99.5%	99.8%	99.7%	99.7%	99.7%	99.7%	99.7%	99.8%

Licensee Comments: none

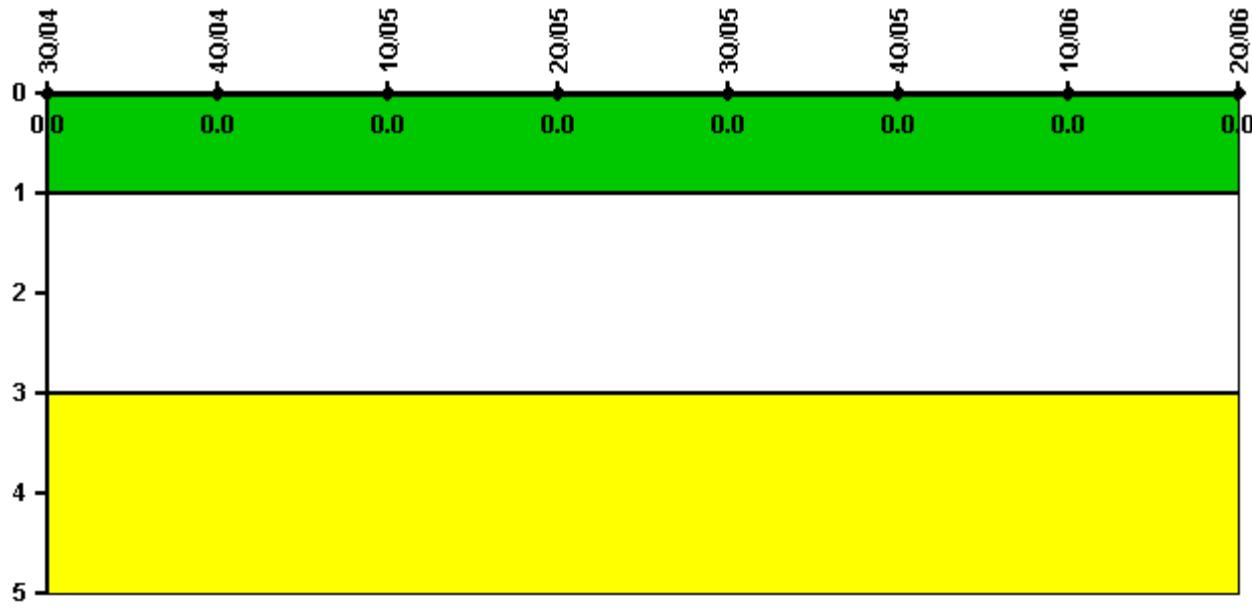
Occupational Exposure Control Effectiveness

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	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	0	0	0	0	0	0	1	1

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](#)

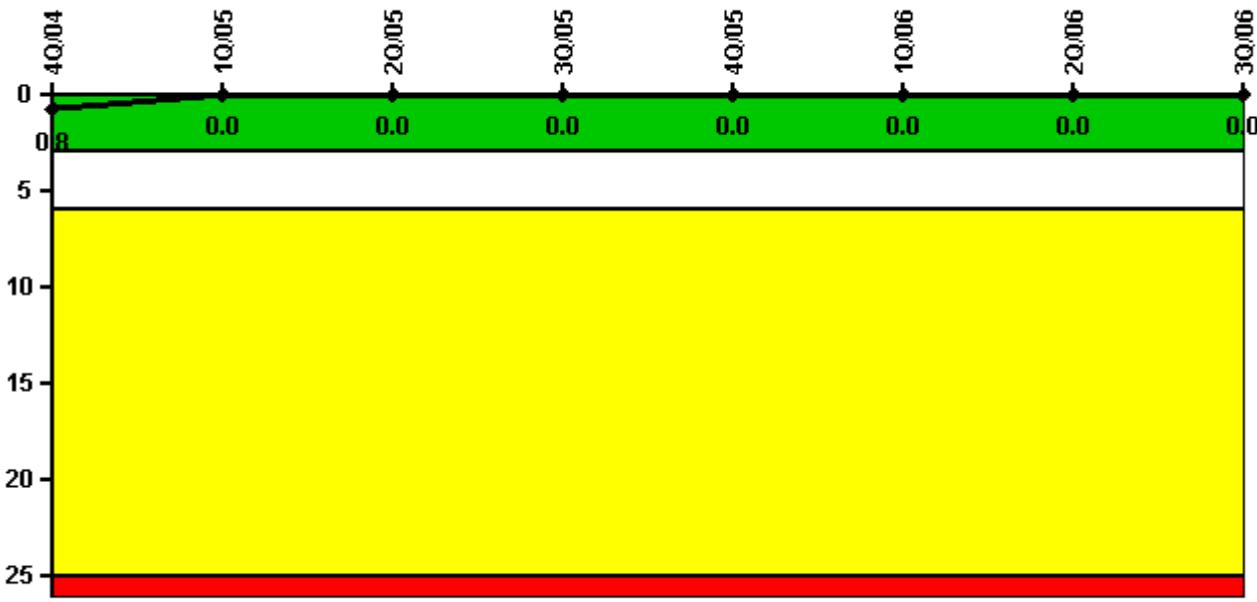
Last Modified: August 2, 2006

Calvert Cliffs 2

3Q/2006 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

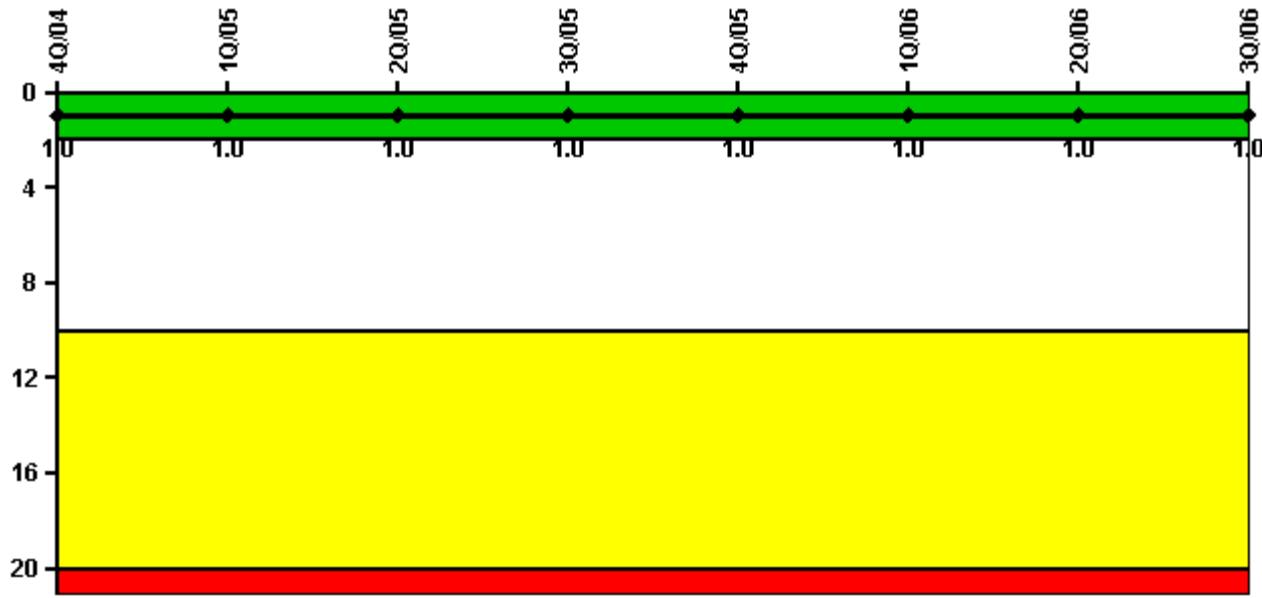


Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0
Critical hours	2209.0	1685.9	2183.0	2208.0	2209.0	2160.0	2183.0	2208.0
Indicator value	0.8	0						

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

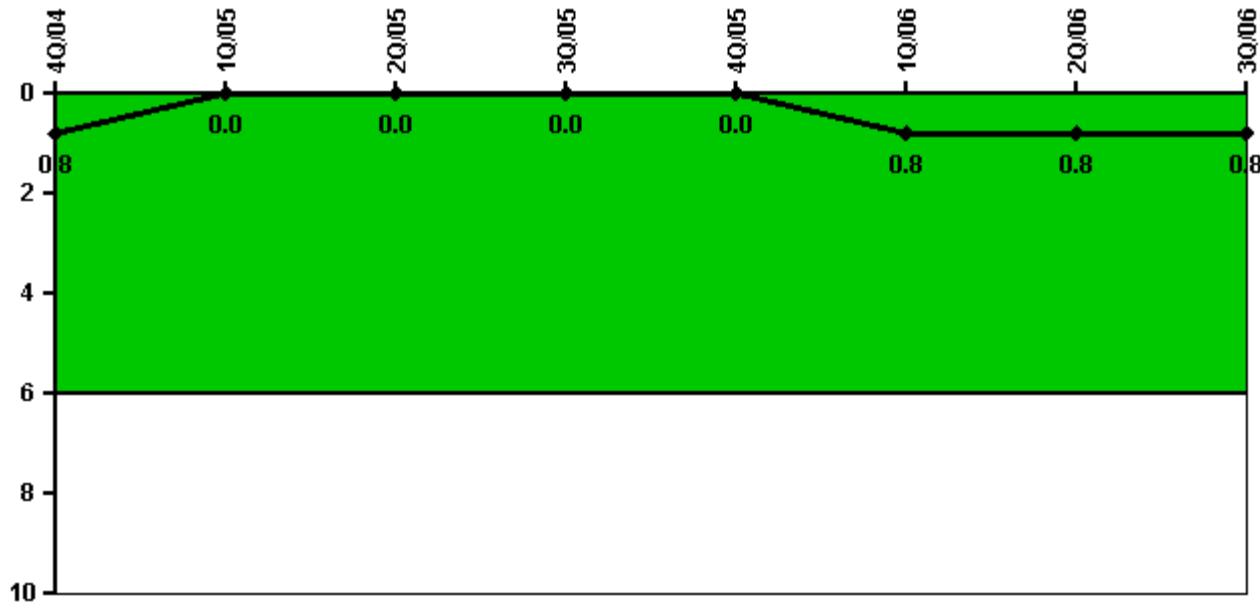
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/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	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

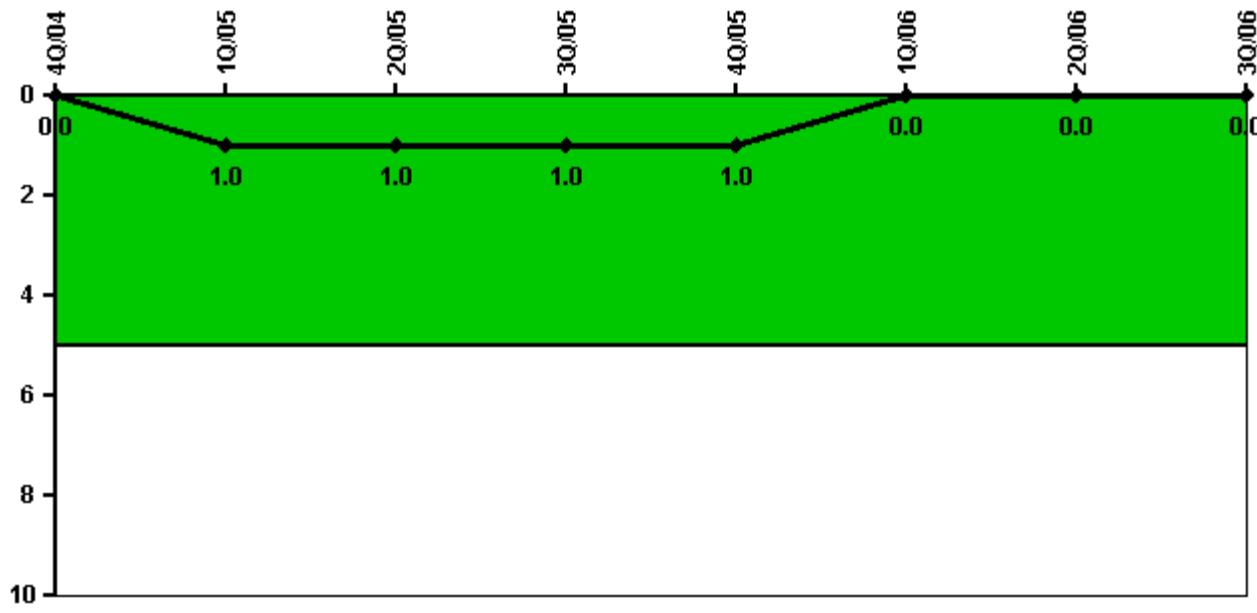


Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2209.0	1685.9	2183.0	2208.0	2209.0	2160.0	2183.0	2208.0
Indicator value	0.8	0	0	0	0	0.8	0.8	0.8

Licensee Comments: none

Safety System Functional Failures (PWR)

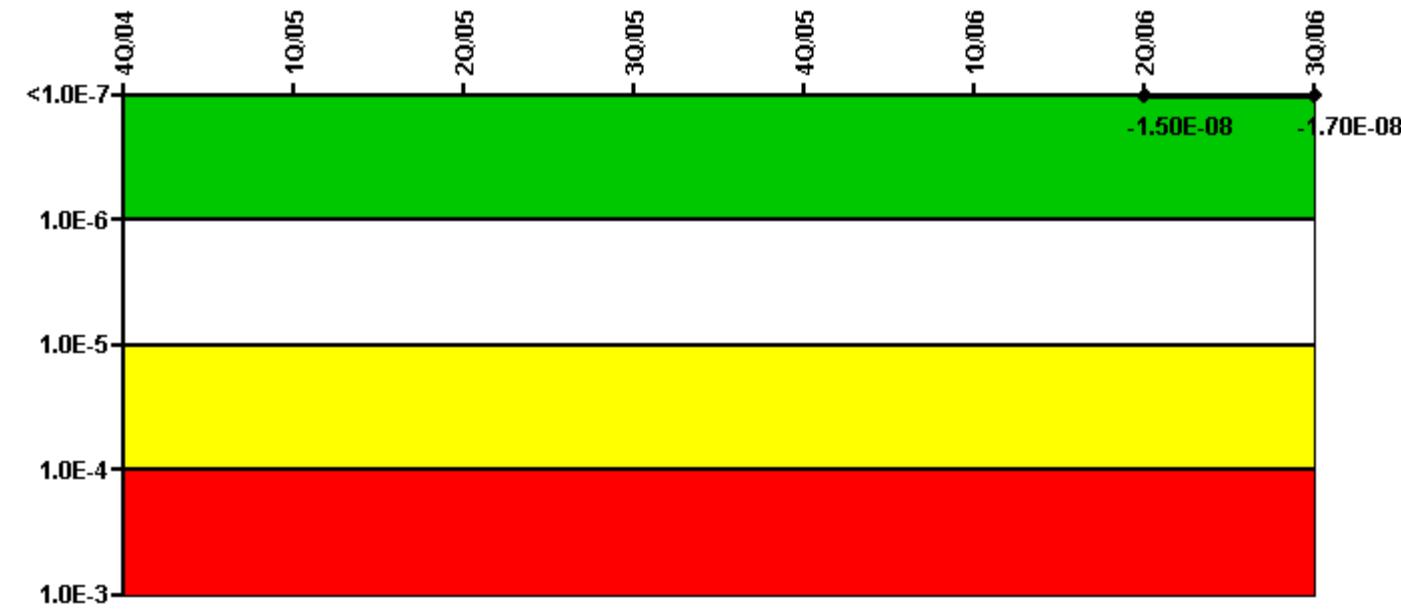
Thresholds: White > 5.0

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	0	1	0	0	0	0	0	0
Indicator value	0	1	1	1	1	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



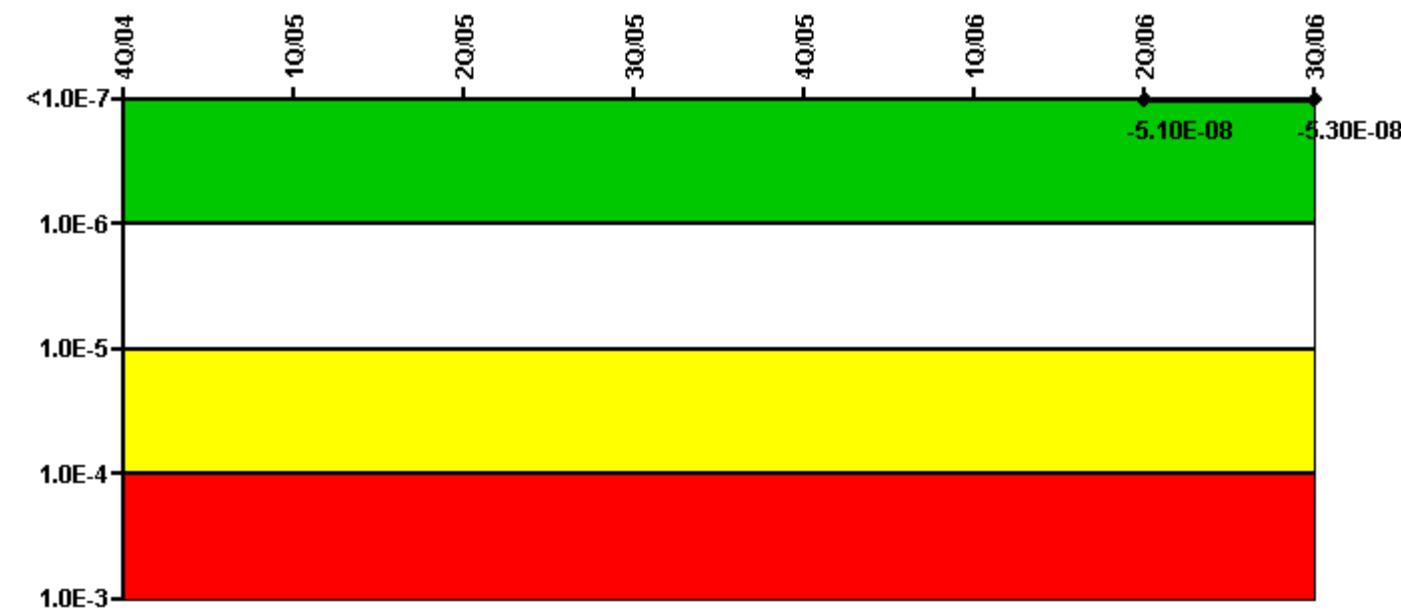
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							3.10E-08	2.90E-08
URI (ΔCDF)							-4.60E-08	-4.60E-08
PLE							NO	NO
Indicator value							-1.50E-08	-1.70E-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/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (Δ CDF)							2.80E-08	2.60E-08
URI (Δ CDF)							-7.90E-08	-7.90E-08
PLE							NO	NO
Indicator value							-5.10E-08	-5.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



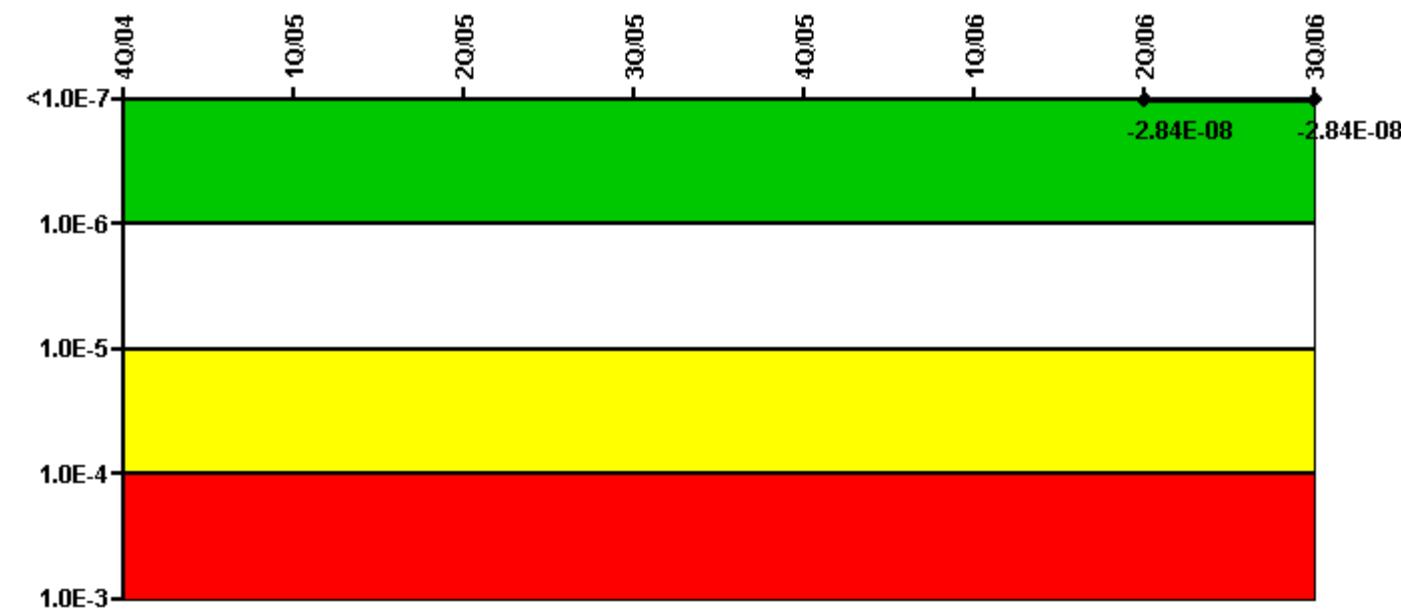
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							2.50E-08	4.50E-08
URI (ΔCDF)							-2.40E-07	-2.30E-07
PLE							NO	NO
Indicator value							-2.15E-07	-1.85E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



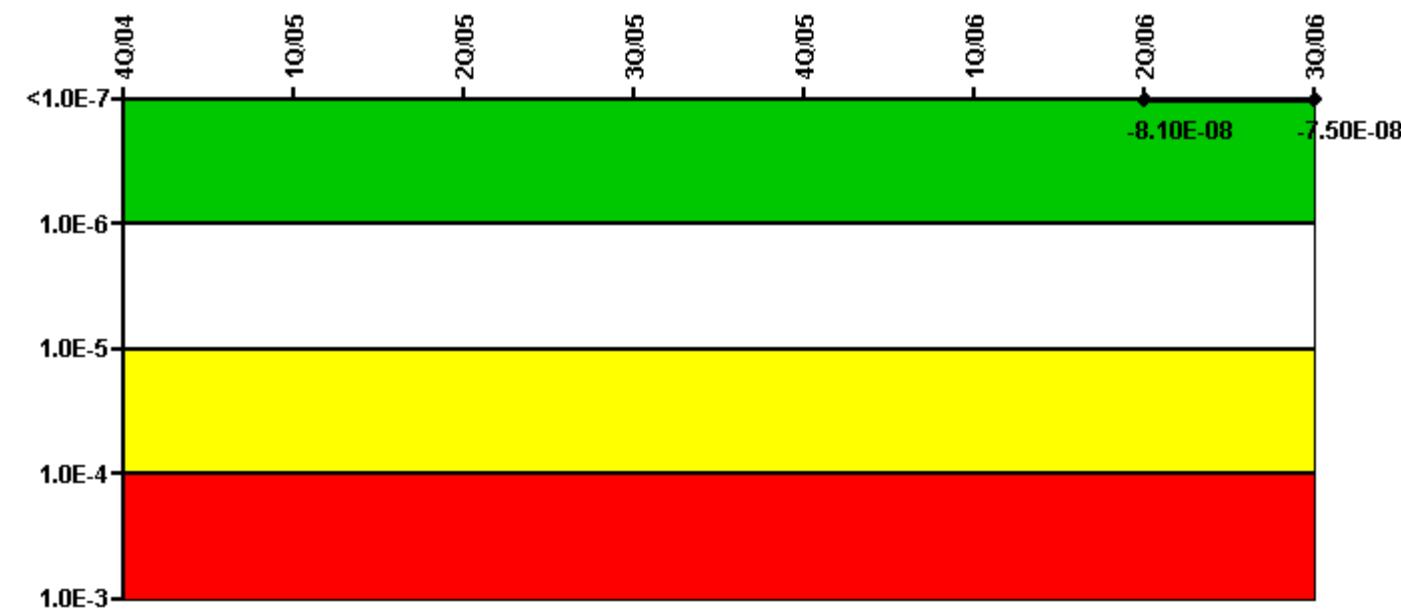
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)							-2.40E-08	-2.40E-08
URI (Δ CDF)							-4.40E-09	-4.40E-09
PLE							NO	NO
Indicator value							-2.84E-08	-2.84E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



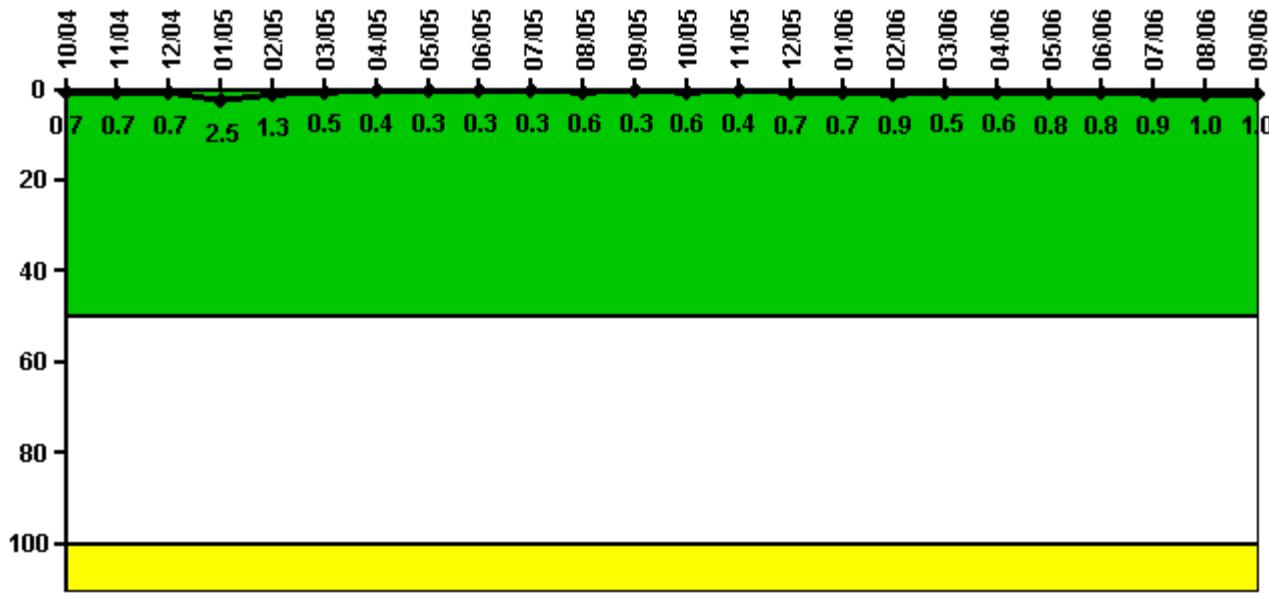
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							1.00E-08	1.50E-08
URI (ΔCDF)							-9.10E-08	-9.00E-08
PLE							NO	NO
Indicator value							-8.10E-08	-7.50E-08

Licensee Comments: none

Reactor Coolant System Activity



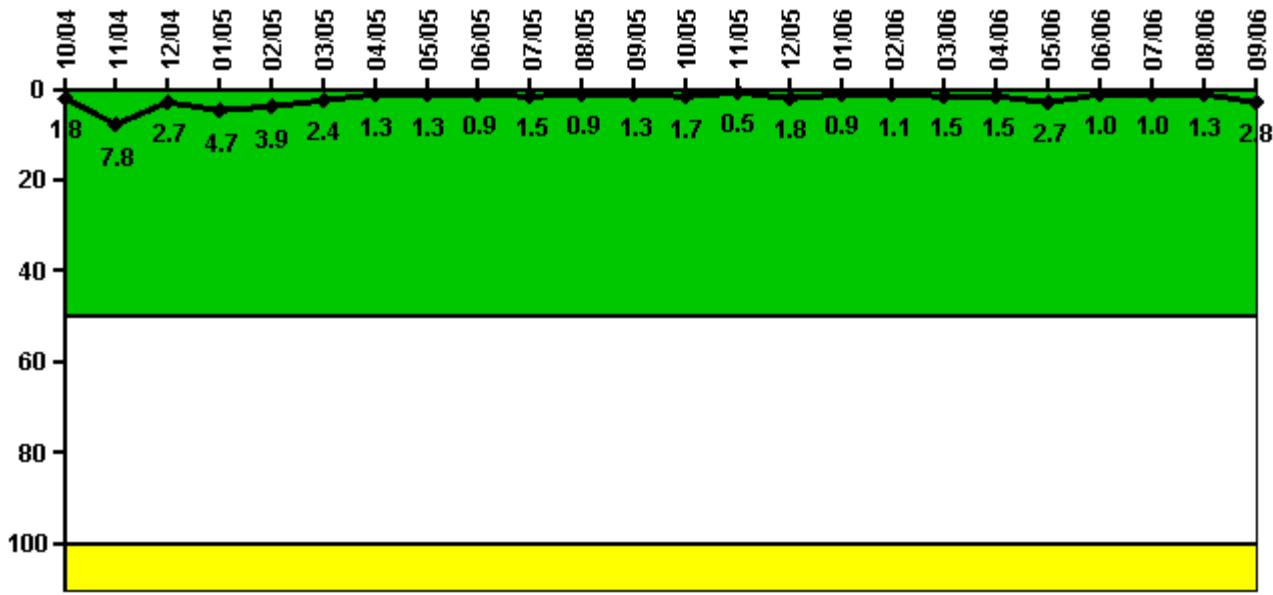
Thresholds: White > 50.0 Yellow > 100.0

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	0.007020	0.007020	0.006850	0.025100	0.012700	0.005490	0.003780	0.003410	0.003020	0.003010	0.005790	0.003180
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	0.7	0.7	0.7	2.5	1.3	0.5	0.4	0.3	0.3	0.3	0.6	0.3
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	0.005620	0.004070	0.006690	0.006580	0.008720	0.005310	0.005820	0.007540	0.008390	0.009170	0.009820	0.009930
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	0.6	0.4	0.7	0.7	0.9	0.5	0.6	0.8	0.8	0.9	1.0	1.0

Licensee Comments: none

Reactor Coolant System Leakage



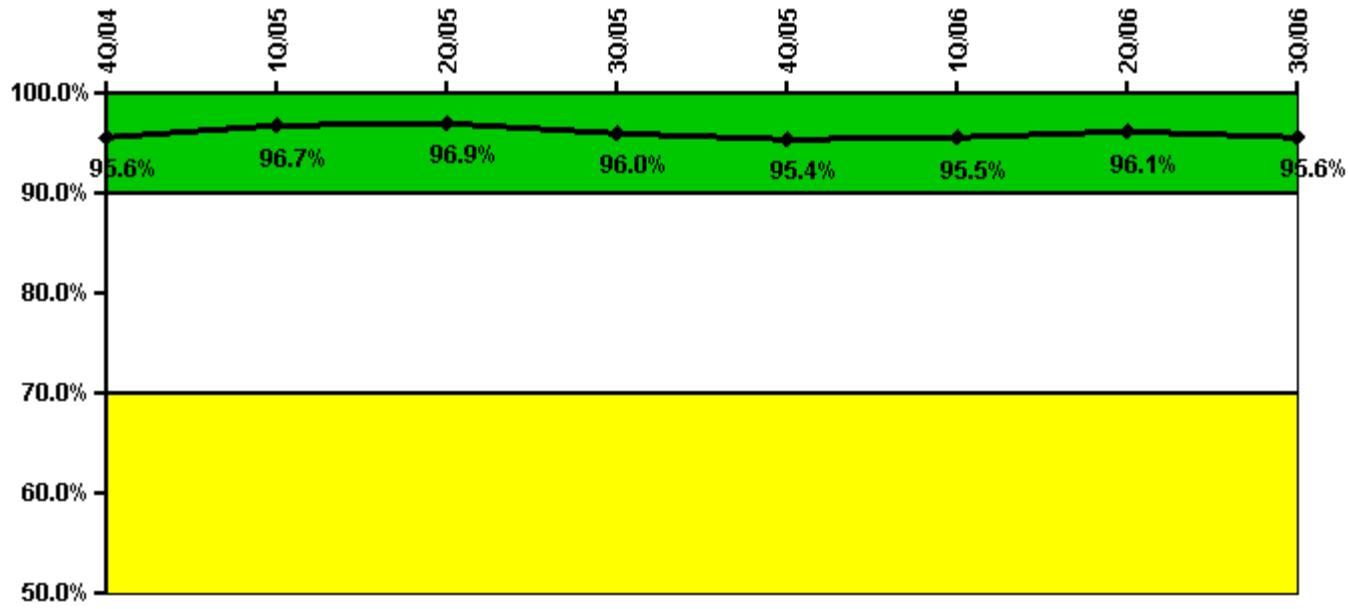
Thresholds: White > 50.0 Yellow > 100.0

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	0.176	0.783	0.269	0.470	0.392	0.236	0.130	0.130	0.090	0.147	0.093	0.134
Indicator value	1.8	7.8	2.7	4.7	3.9	2.4	1.3	1.3	0.9	1.5	0.9	1.3
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	0.170	0.050	0.180	0.086	0.105	0.153	0.150	0.273	0.097	0.100	0.130	0.283
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	1.7	0.5	1.8	0.9	1.1	1.5	1.5	2.7	1.0	1.0	1.3	2.8

Licensee Comments: none

Drill/Exercise Performance



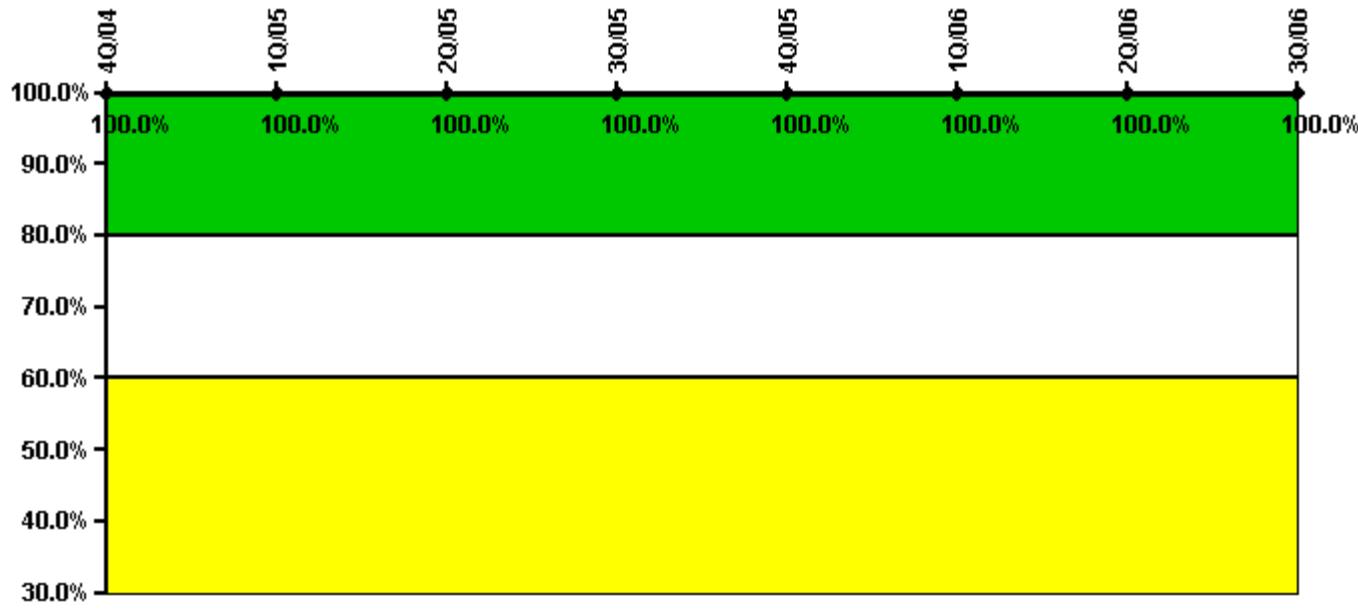
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful opportunities	72.0	2.0	0	49.0	107.0	4.0	58.0	56.0
Total opportunities	75.0	2.0	0	52.0	112.0	4.0	59.0	60.0
Indicator value	95.6%	96.7%	96.9%	96.0%	95.4%	95.5%	96.1%	95.6%

Licensee Comments: none

ERO Drill Participation



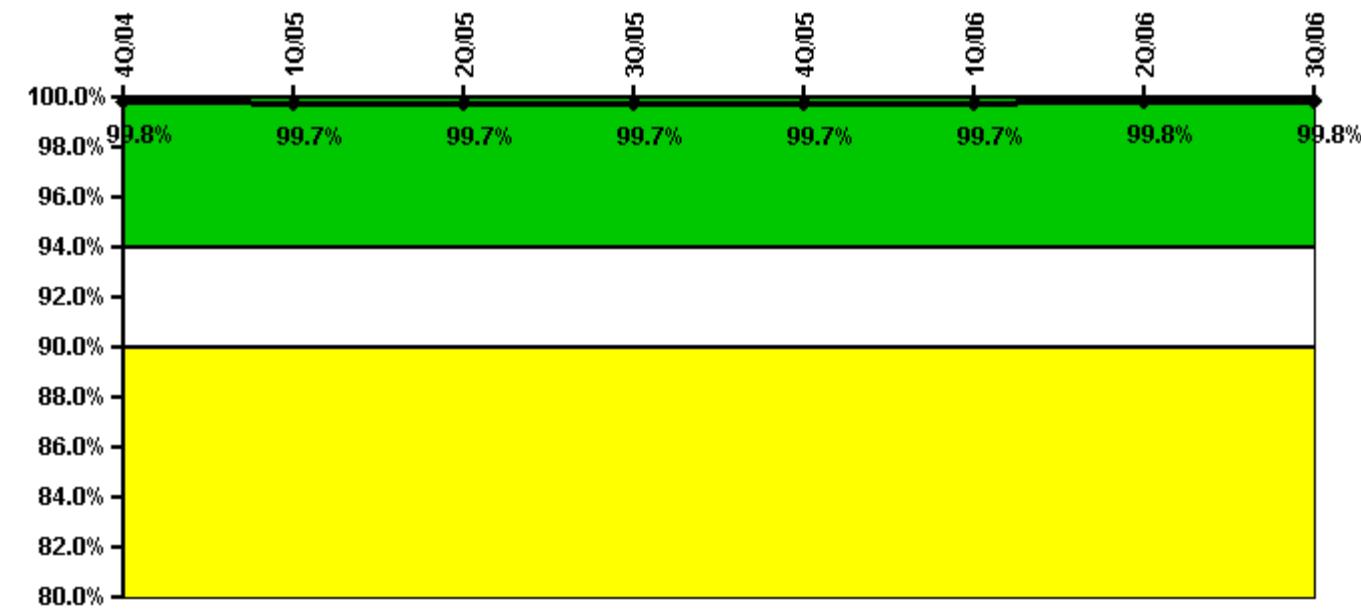
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Participating Key personnel	68.0	65.0	62.0	62.0	59.0	56.0	68.0	66.0
Total Key personnel	68.0	65.0	62.0	62.0	59.0	56.0	68.0	66.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System

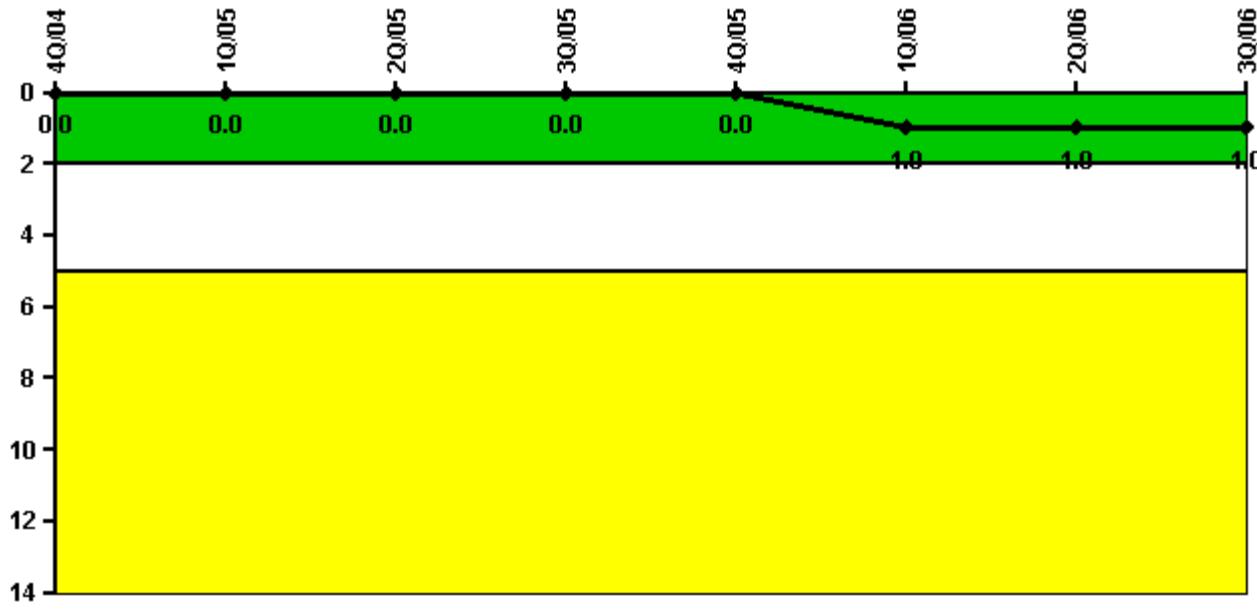


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful siren-tests	948	944	944	949	946	947	948	946
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.8%	99.7%	99.7%	99.7%	99.7%	99.7%	99.8%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness

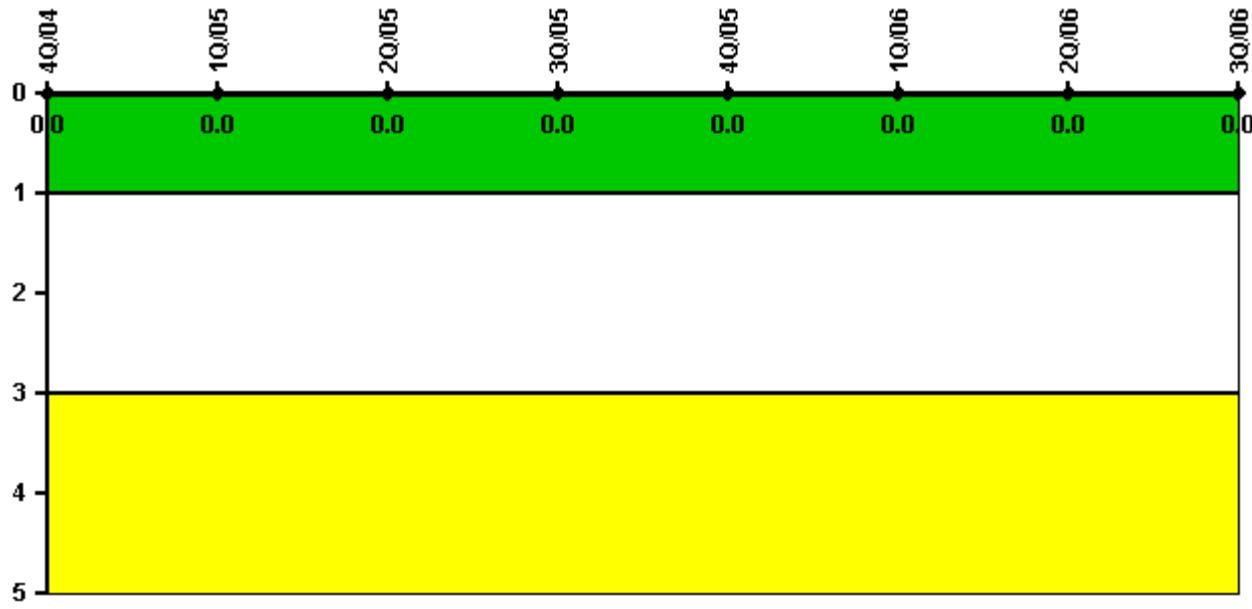
Thresholds: White > 2.0 Yellow > 5.0

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	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	0	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	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.



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

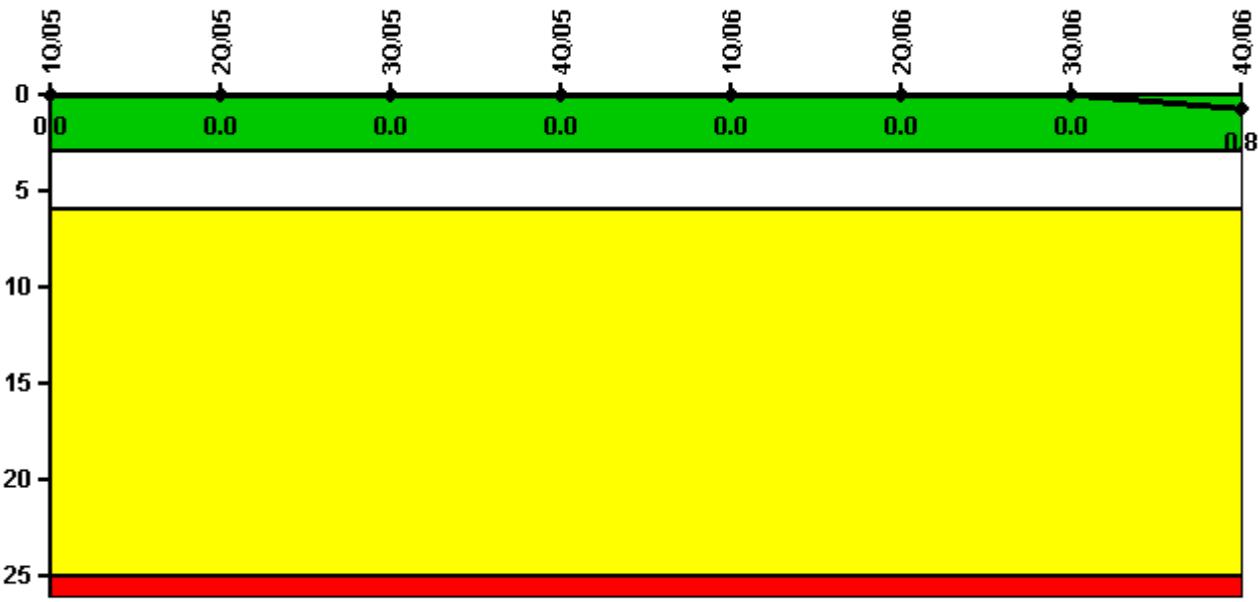
Last Modified: November 6, 2006

Calvert Cliffs 2

4Q/2006 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

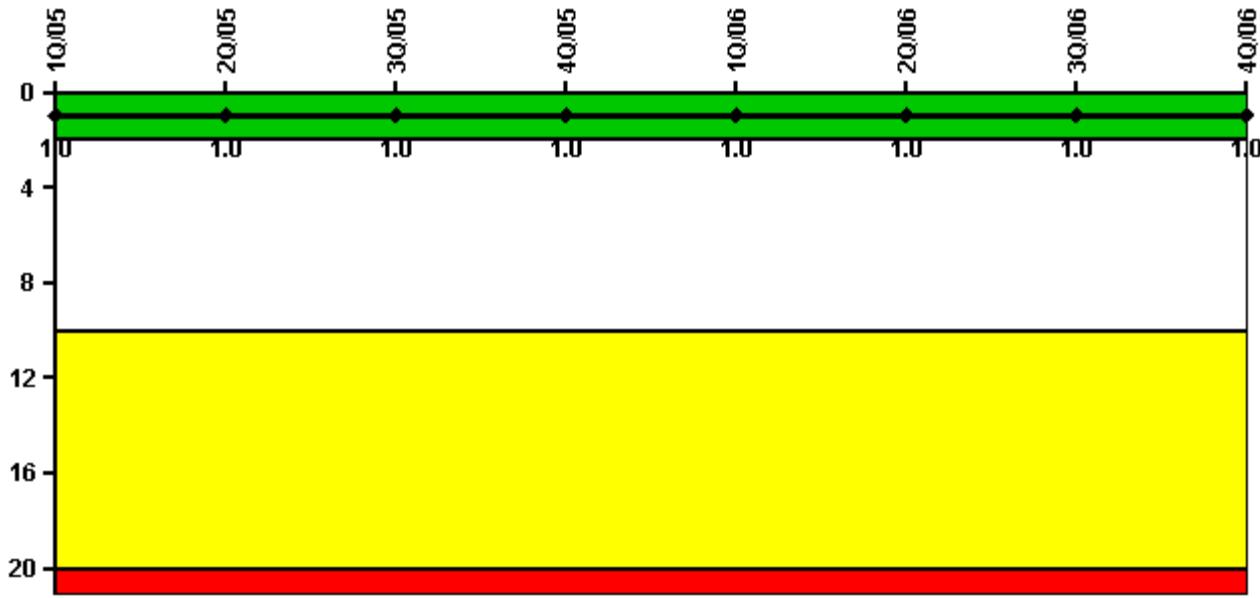


Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	1.0
Critical hours	1685.9	2183.0	2208.0	2209.0	2160.0	2183.0	2208.0	2090.8
Indicator value	0	0.8						

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

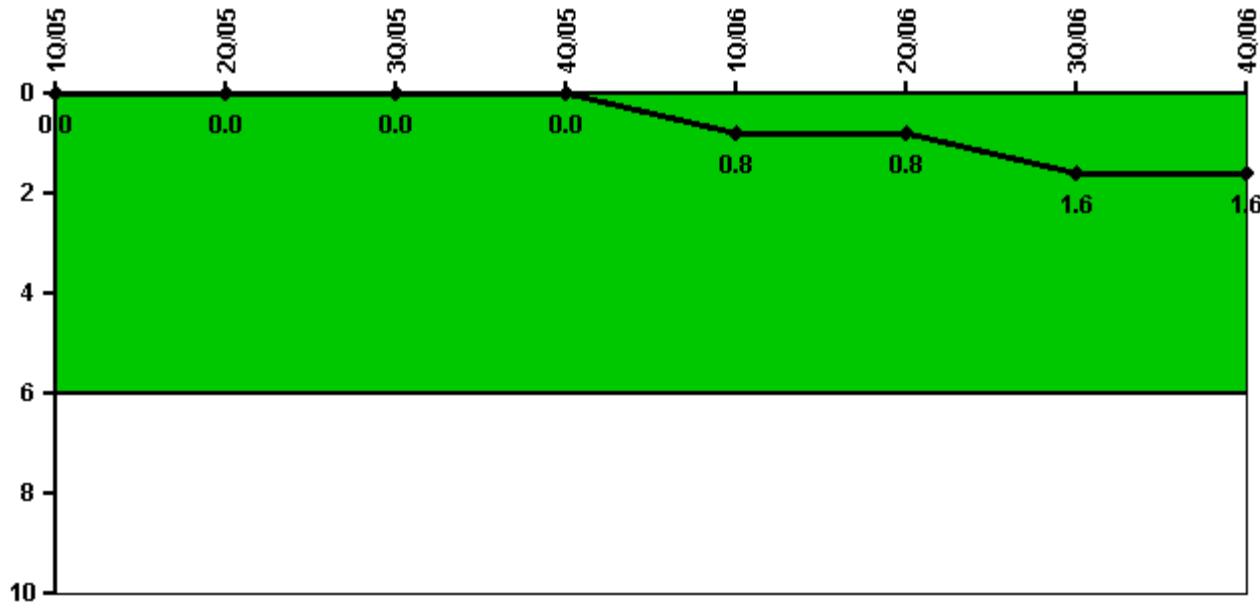
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/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	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



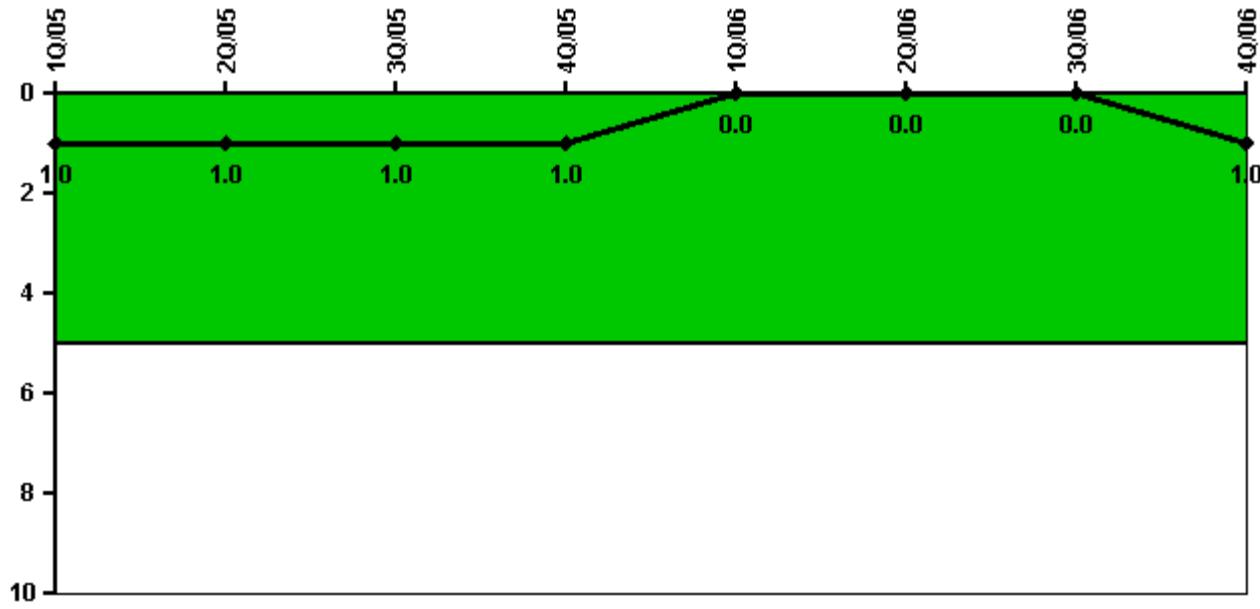
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned power changes	0	0	0	0	1.0	0	1.0	0
Critical hours	1685.9	2183.0	2208.0	2209.0	2160.0	2183.0	2208.0	2090.8
Indicator value	0	0	0	0	0.8	0.8	1.6	1.6

Licensee Comments:

3Q/06: On 09/02/2006 Unit 2 commenced a rapid down power due to decreasing condenser vacuum caused by storm related debris caused by Tropical Storm Ernesto. Power was reduced to 78%.

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

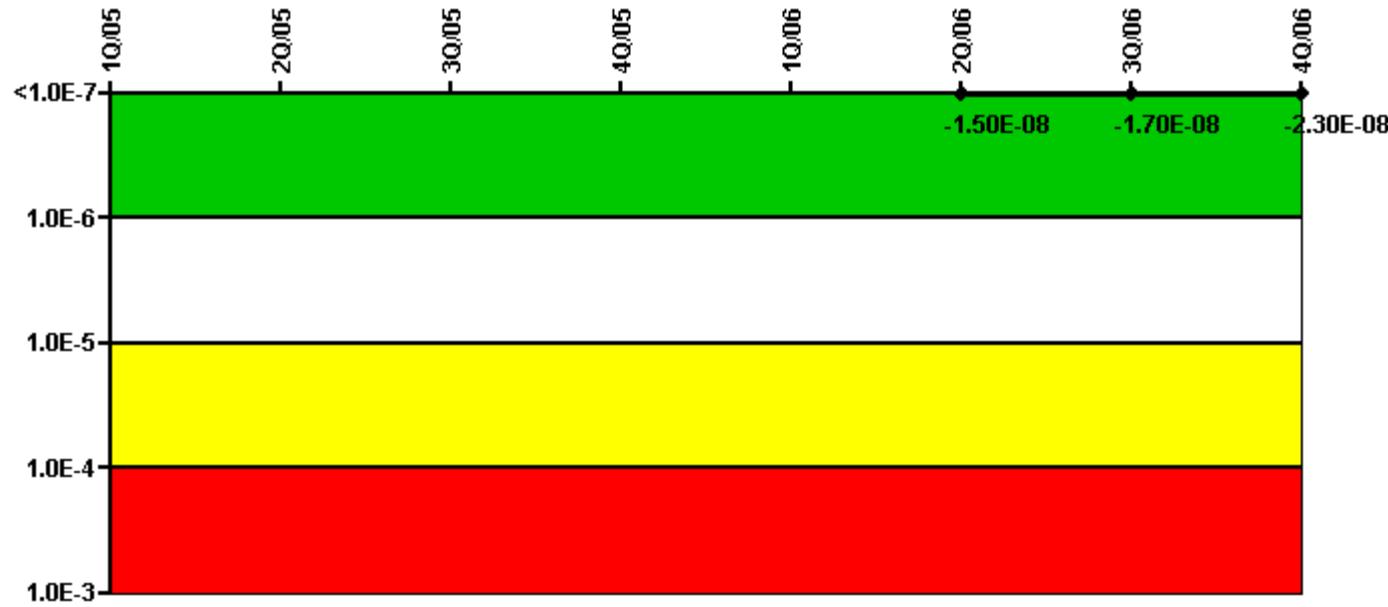
Notes

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	1	0	0	0	0	0	0	1
Indicator value	1	1	1	1	0	0	0	1

Licensee Comments:

4Q/06: LER 2006-003

Mitigating Systems Performance Index, Emergency AC Power System



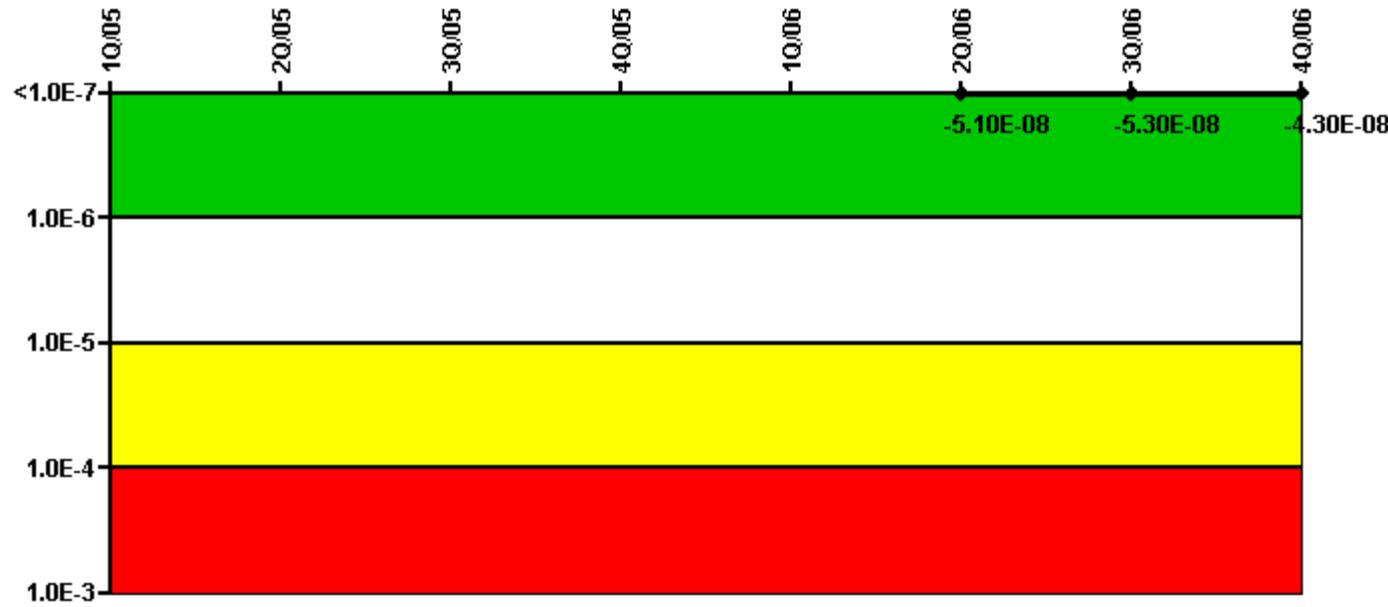
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)						3.10E-08	2.90E-08	1.50E-08
URI (Δ CDF)						-4.60E-08	-4.60E-08	-3.80E-08
PLE						NO	NO	NO
Indicator value						-1.50E-08	-1.70E-08	-2.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



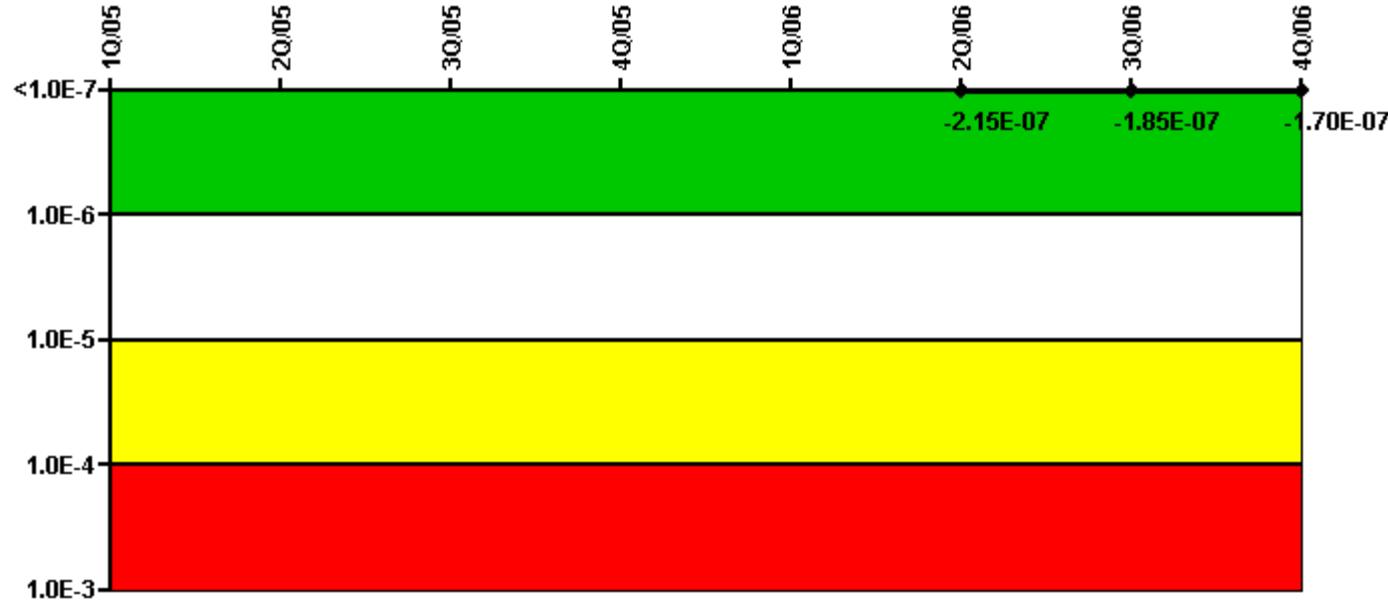
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)						2.80E-08	2.60E-08	3.90E-08
URI (Δ CDF)						-7.90E-08	-7.90E-08	-8.20E-08
PLE						NO	NO	NO
Indicator value						-5.10E-08	-5.30E-08	-4.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



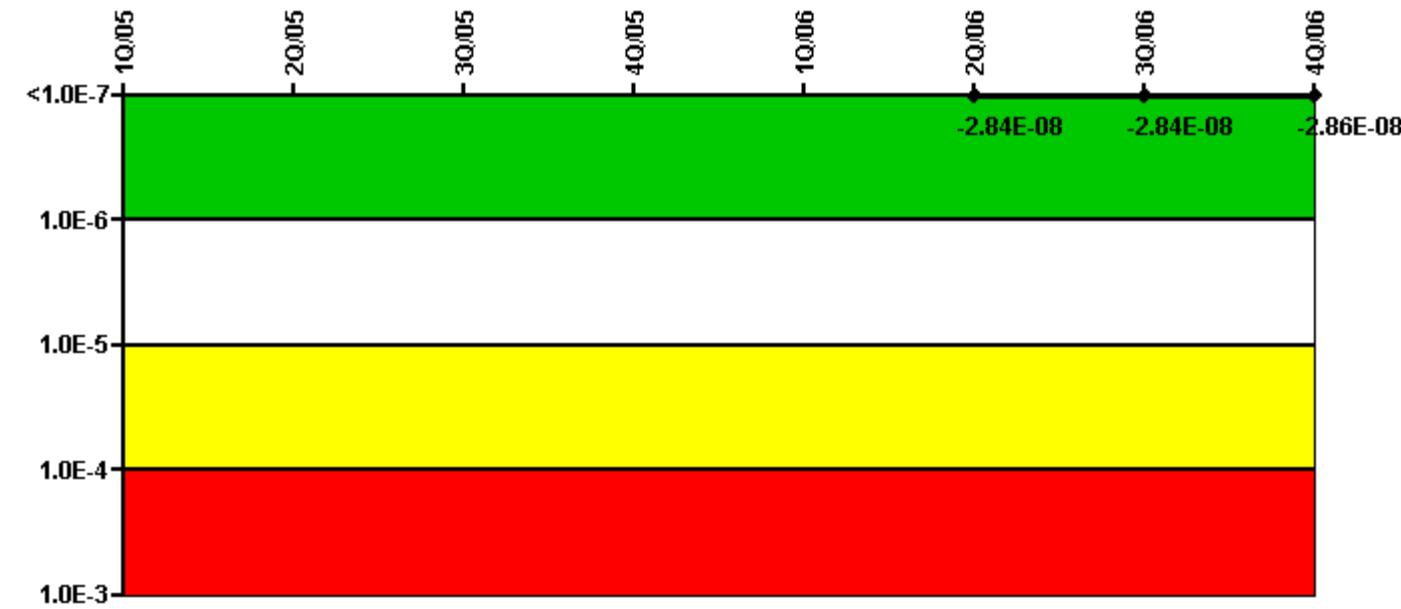
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						2.50E-08	4.50E-08	6.00E-08
URI (ΔCDF)						-2.40E-07	-2.30E-07	-2.30E-07
PLE						NO	NO	NO
Indicator value						-2.15E-07	-1.85E-07	-1.70E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



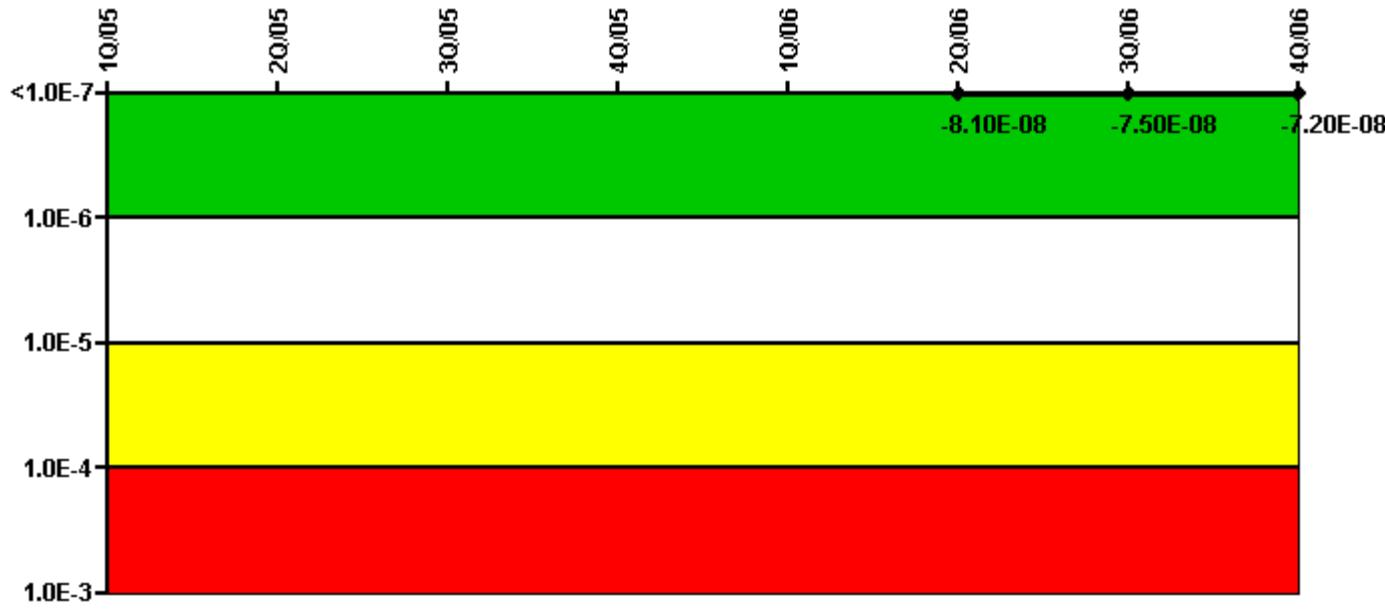
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)						-2.40E-08	-2.40E-08	-2.40E-08
URI (Δ CDF)						-4.40E-09	-4.40E-09	-4.60E-09
PLE						NO	NO	NO
Indicator value						-2.84E-08	-2.84E-08	-2.86E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



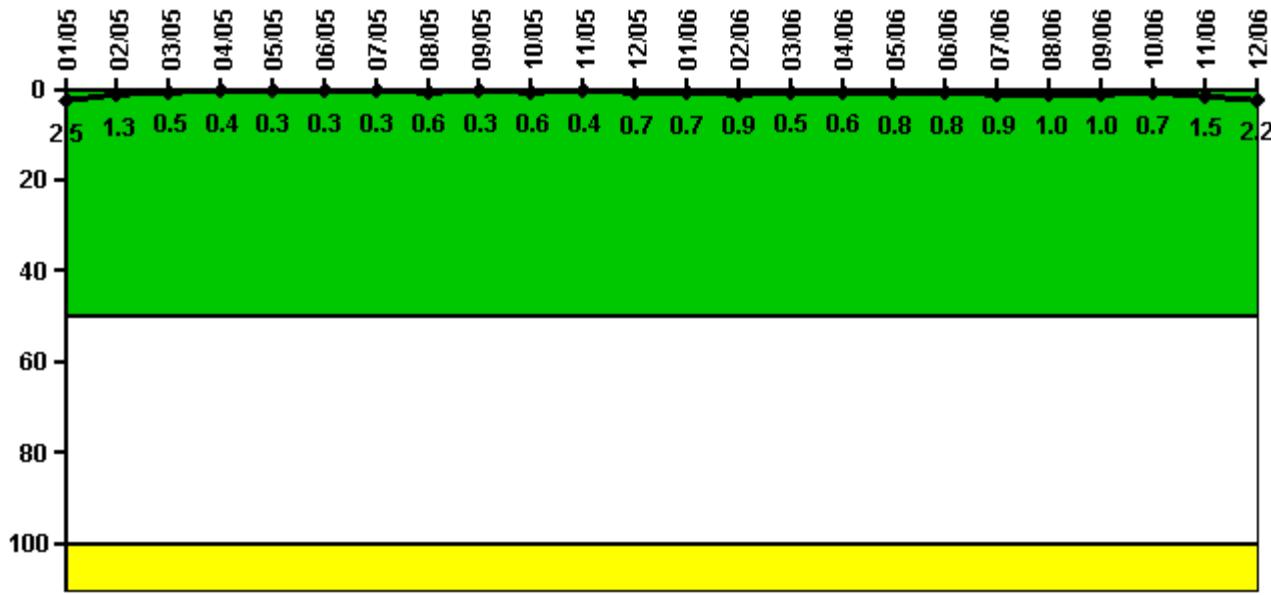
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						1.00E-08	1.50E-08	1.80E-08
URI (ΔCDF)						-9.10E-08	-9.00E-08	-9.00E-08
PLE						NO	NO	NO
Indicator value						-8.10E-08	-7.50E-08	-7.20E-08

Licensee Comments: none

Reactor Coolant System Activity



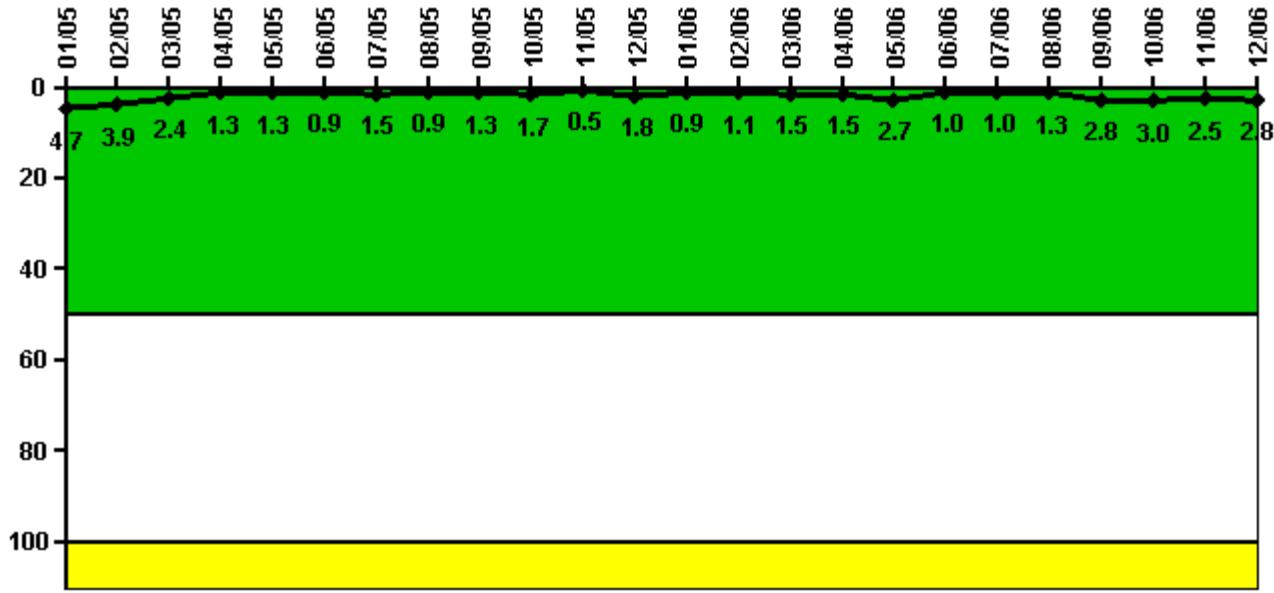
Thresholds: White > 50.0 Yellow > 100.0

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	0.025100	0.012700	0.005490	0.003780	0.003410	0.003020	0.003010	0.005790	0.003180	0.005620	0.004070	0.006690
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	2.5	1.3	0.5	0.4	0.3	0.3	0.3	0.6	0.3	0.6	0.4	0.7
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	0.006580	0.008720	0.005310	0.005820	0.007540	0.008390	0.009170	0.009820	0.009930	0.007360	0.014800	0.022400
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	0.7	0.9	0.5	0.6	0.8	0.8	0.9	1.0	1.0	0.7	1.5	2.2

Licensee Comments: none

Reactor Coolant System Leakage



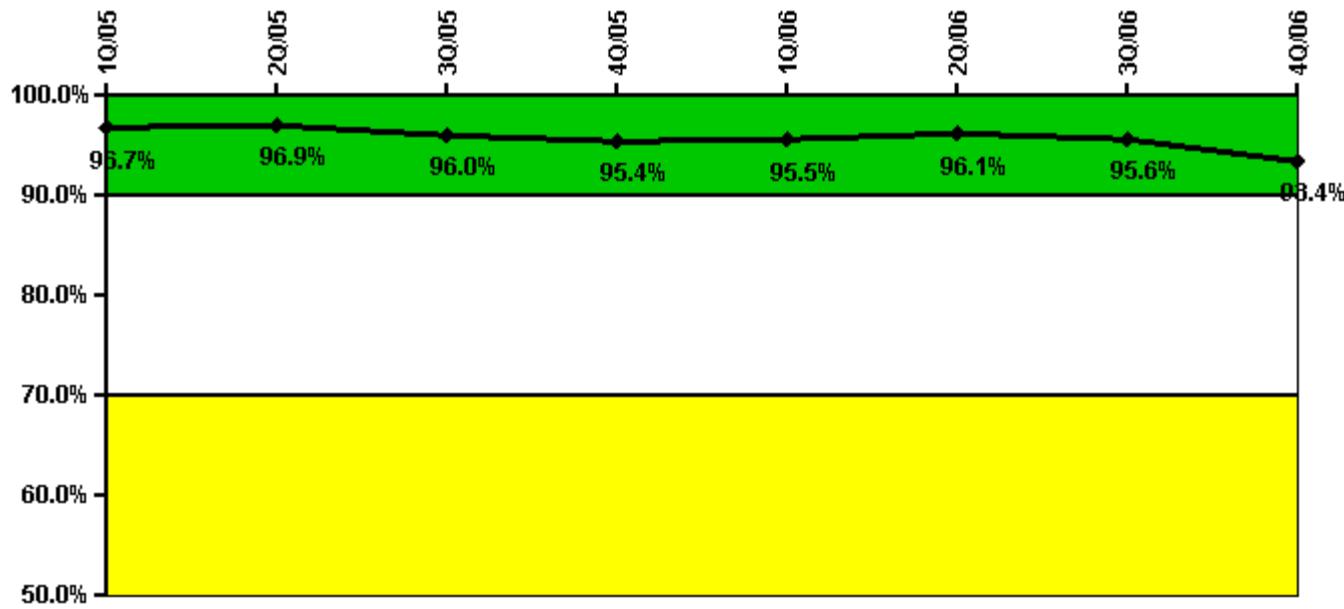
Thresholds: White > 50.0 Yellow > 100.0

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	0.470	0.392	0.236	0.130	0.130	0.090	0.147	0.093	0.134	0.170	0.050	0.180
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	4.7	3.9	2.4	1.3	1.3	0.9	1.5	0.9	1.3	1.7	0.5	1.8
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	0.086	0.105	0.153	0.150	0.273	0.097	0.100	0.130	0.283	0.299	0.250	0.281
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	0.9	1.1	1.5	1.5	2.7	1.0	1.0	1.3	2.8	3.0	2.5	2.8

Licensee Comments: none

Drill/Exercise Performance



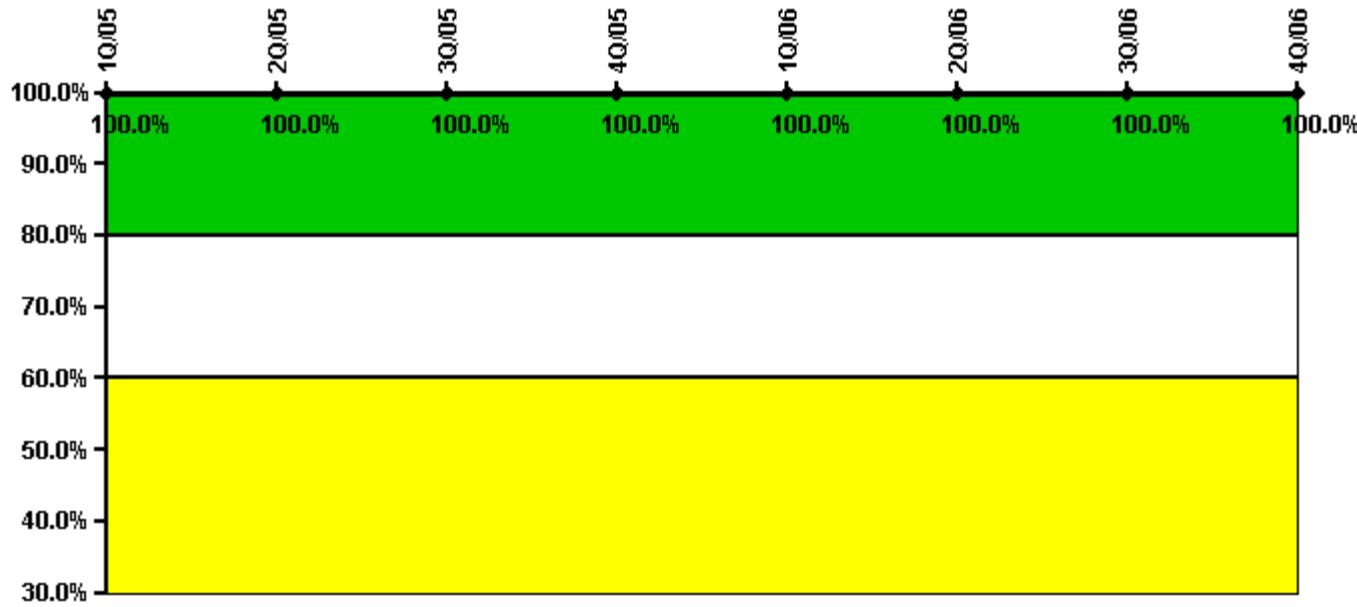
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful opportunities	2.0	0	49.0	107.0	4.0	58.0	56.0	78.0
Total opportunities	2.0	0	52.0	112.0	4.0	59.0	60.0	90.0
Indicator value	96.7%	96.9%	96.0%	95.4%	95.5%	96.1%	95.6%	93.4%

Licensee Comments: none

ERO Drill Participation



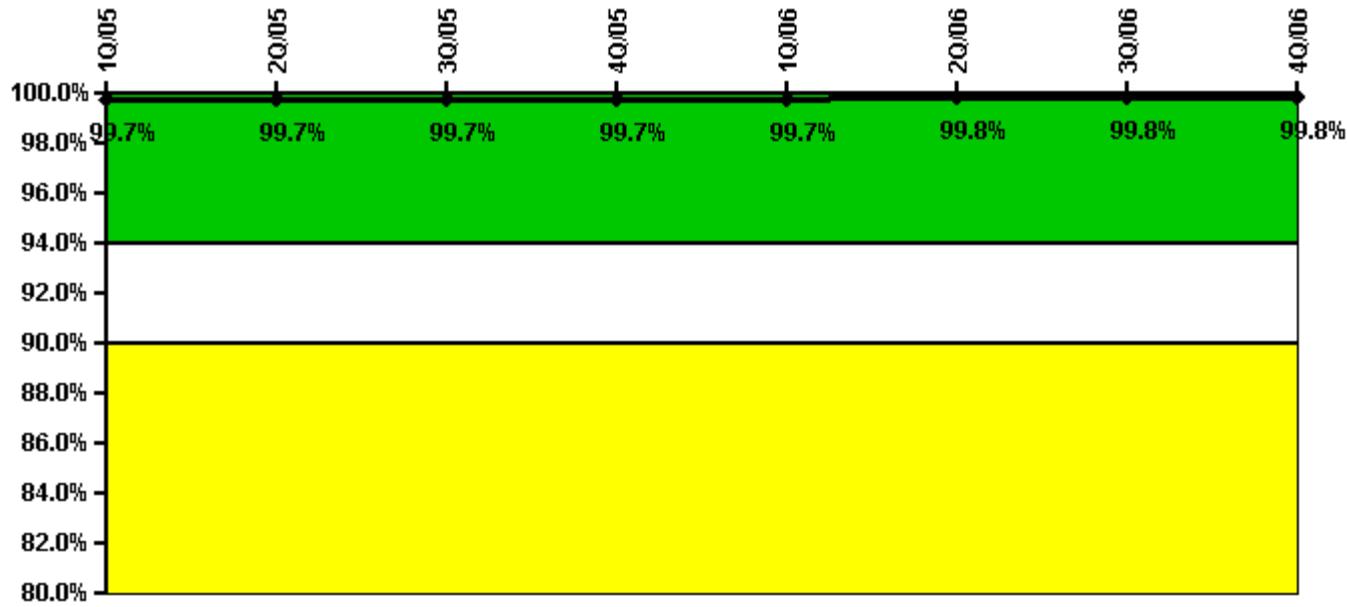
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Participating Key personnel	65.0	62.0	62.0	59.0	56.0	68.0	66.0	68.0
Total Key personnel	65.0	62.0	62.0	59.0	56.0	68.0	66.0	68.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System

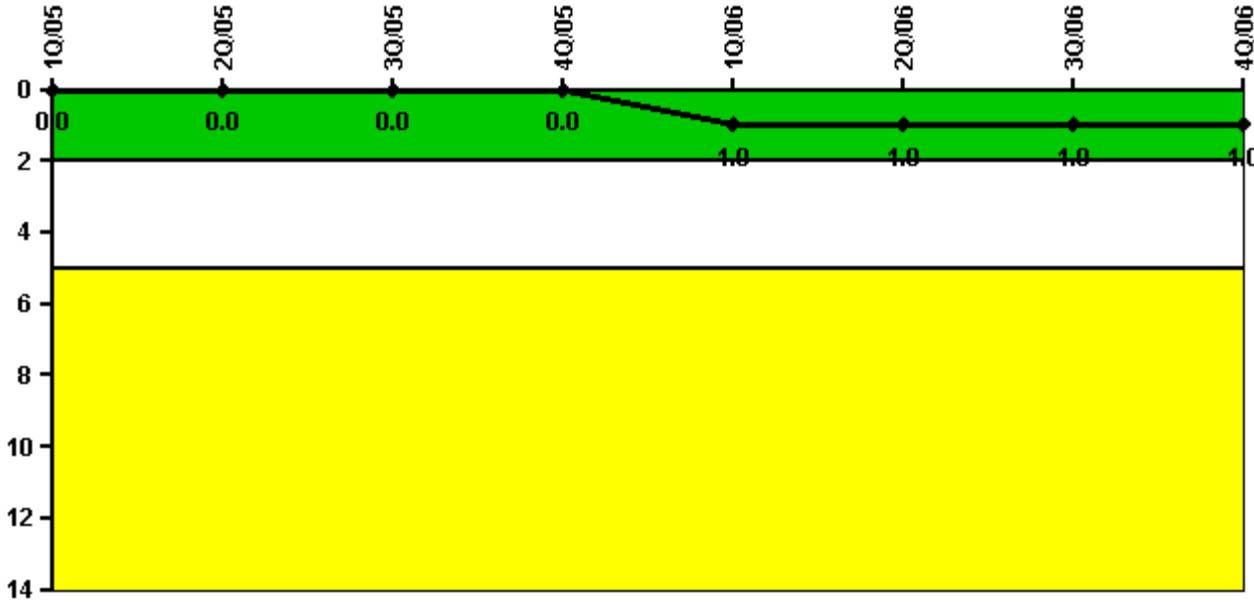


Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful siren-tests	944	944	949	946	947	948	946	948
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.7%	99.7%	99.7%	99.7%	99.7%	99.8%	99.8%	99.8%

Licensee Comments: none

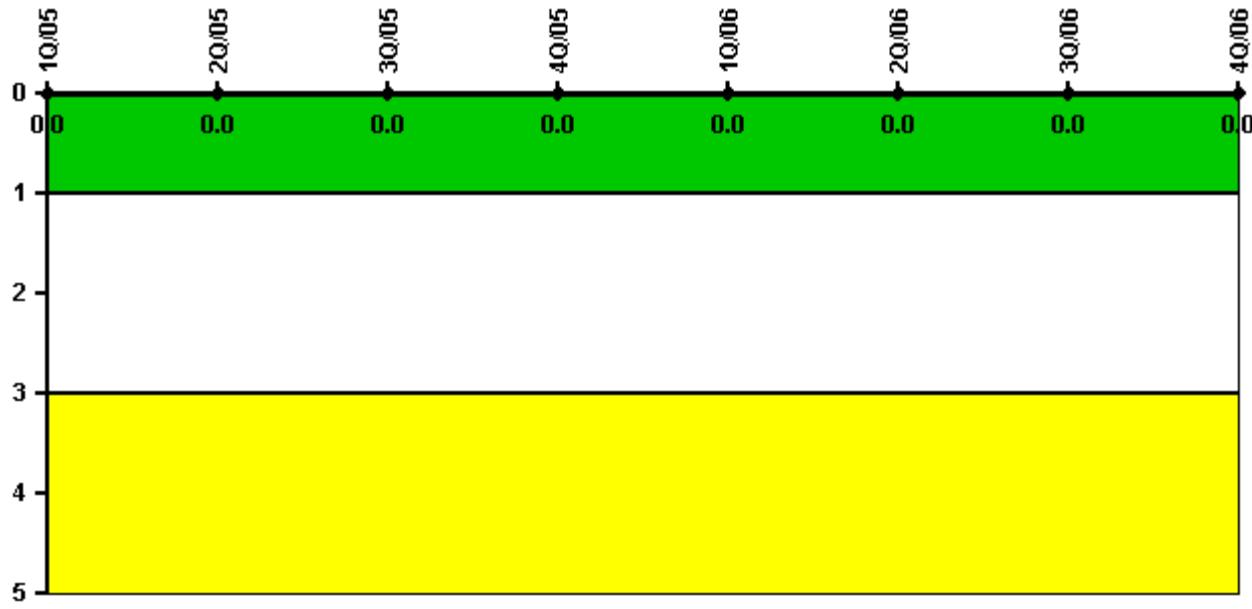
Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/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	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.

Calvert Cliffs 2

1Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



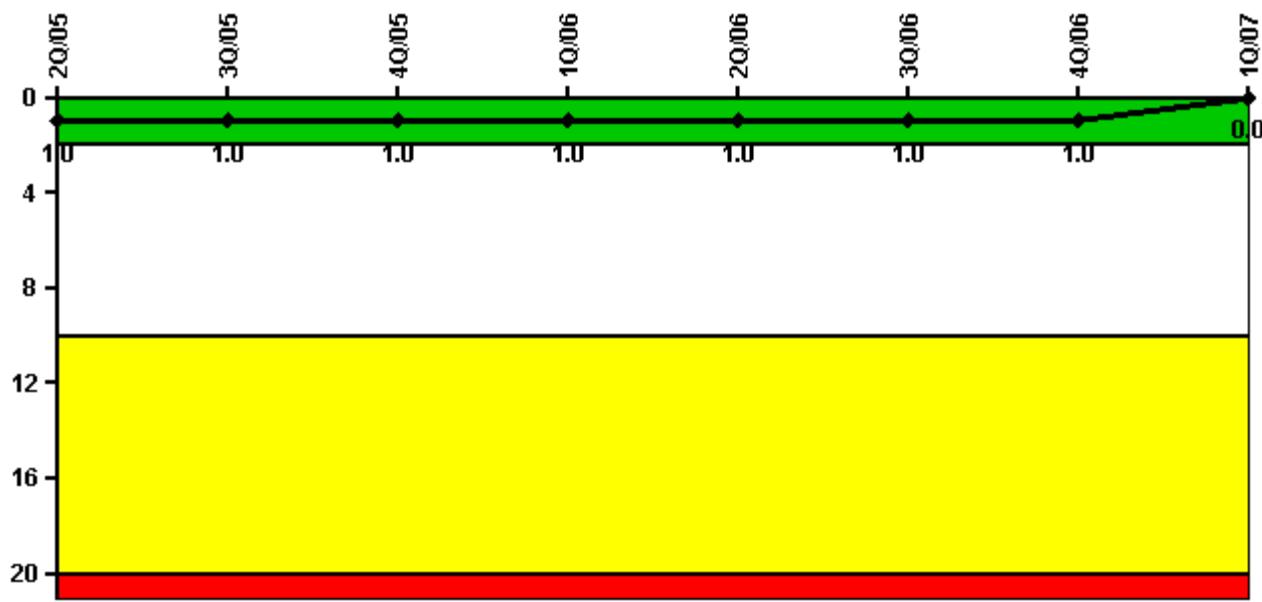
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	1.0	0
Critical hours	2183.0	2208.0	2209.0	2160.0	2183.0	2208.0	2090.8	1341.5
Indicator value	0	0	0	0	0	0	0.8	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



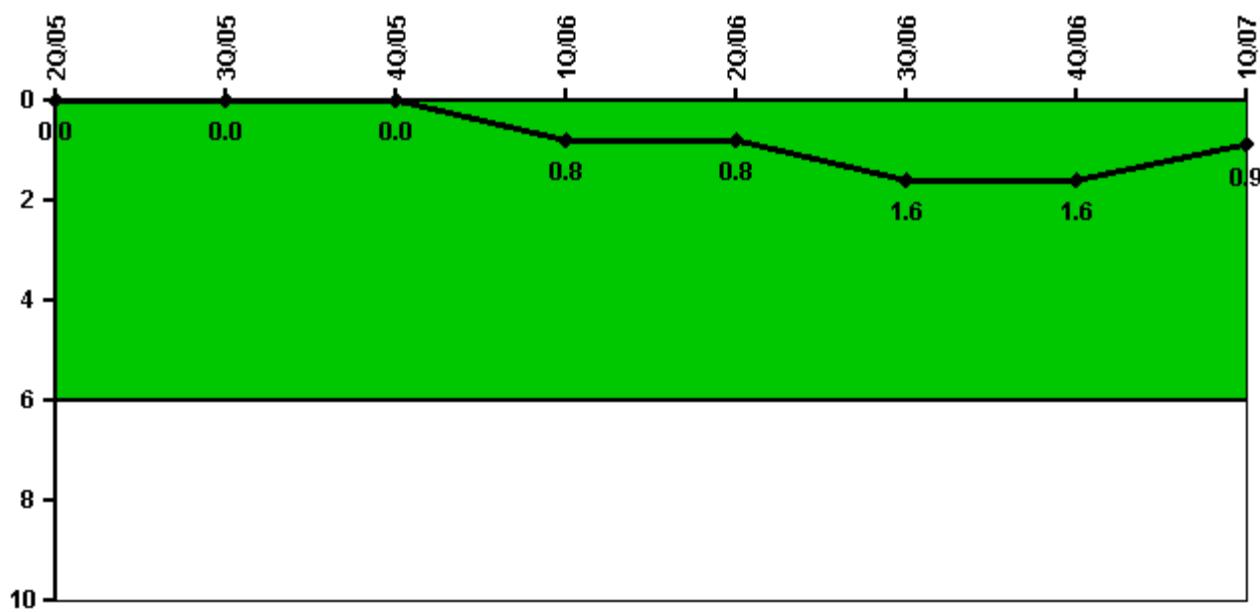
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/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	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



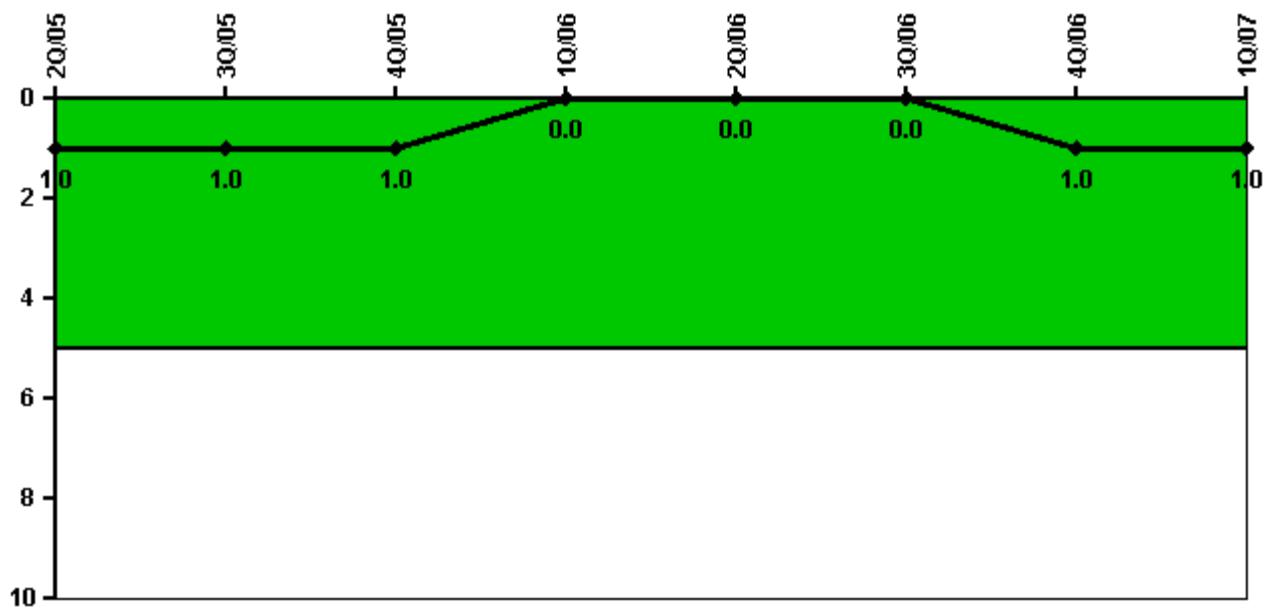
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned power changes	0	0	0	1.0	0	1.0	0	0
Critical hours	2183.0	2208.0	2209.0	2160.0	2183.0	2208.0	2090.8	1341.5
Indicator value	0	0	0	0.8	0.8	1.6	1.6	0.9

Licensee Comments: none

Safety System Functional Failures (PWR)



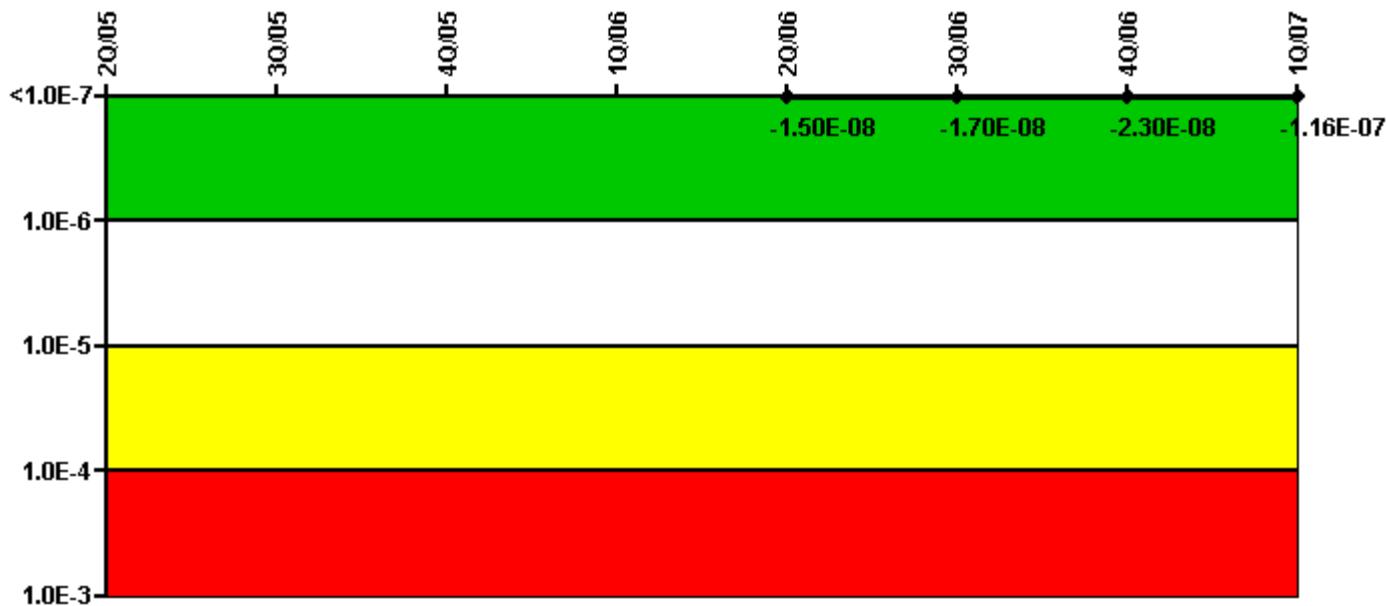
Thresholds: White > 5.0

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	0	0	0	1	0
Indicator value	1	1	1	0	0	0	1	1

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



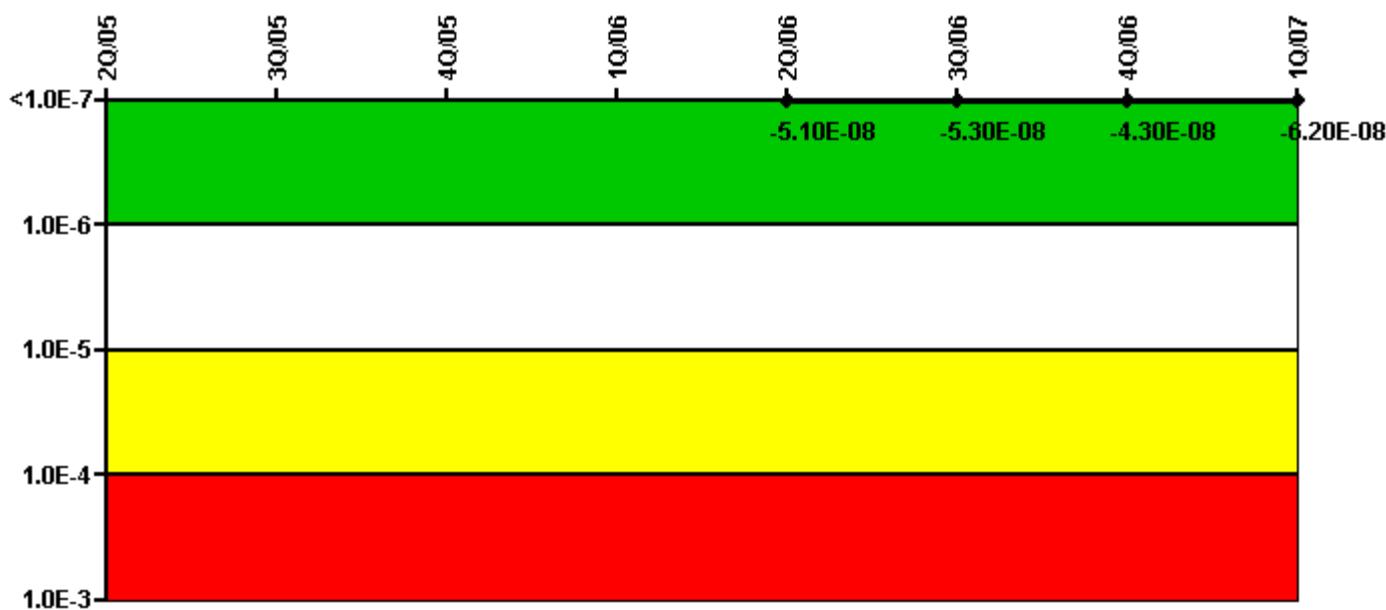
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)					3.10E-08	2.90E-08	1.50E-08	1.40E-08
URI (Δ CDF)					-4.60E-08	-4.60E-08	-3.80E-08	-1.30E-07
PLE					NO	NO	NO	NO
Indicator value					-1.50E-08	-1.70E-08	-2.30E-08	-1.16E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



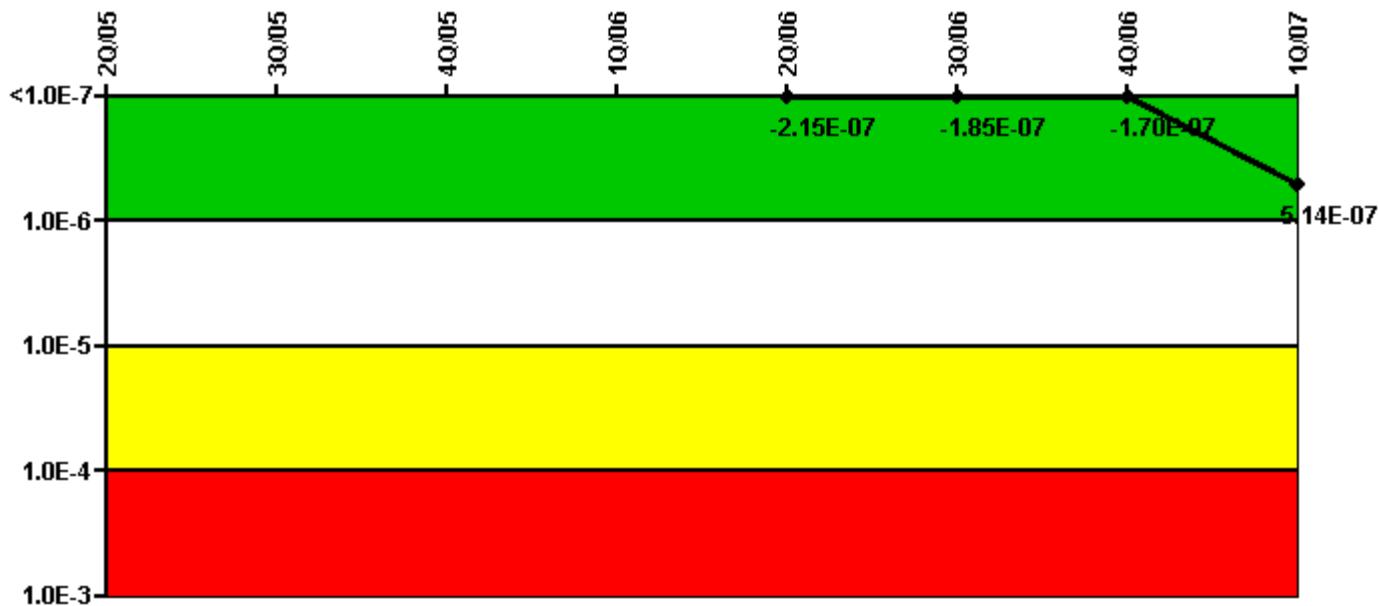
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (Δ CDF)					2.80E-08	2.60E-08	3.90E-08	3.00E-08
URI (Δ CDF)					-7.90E-08	-7.90E-08	-8.20E-08	-9.20E-08
PLE					NO	NO	NO	NO
Indicator value					-5.10E-08	-5.30E-08	-4.30E-08	-6.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



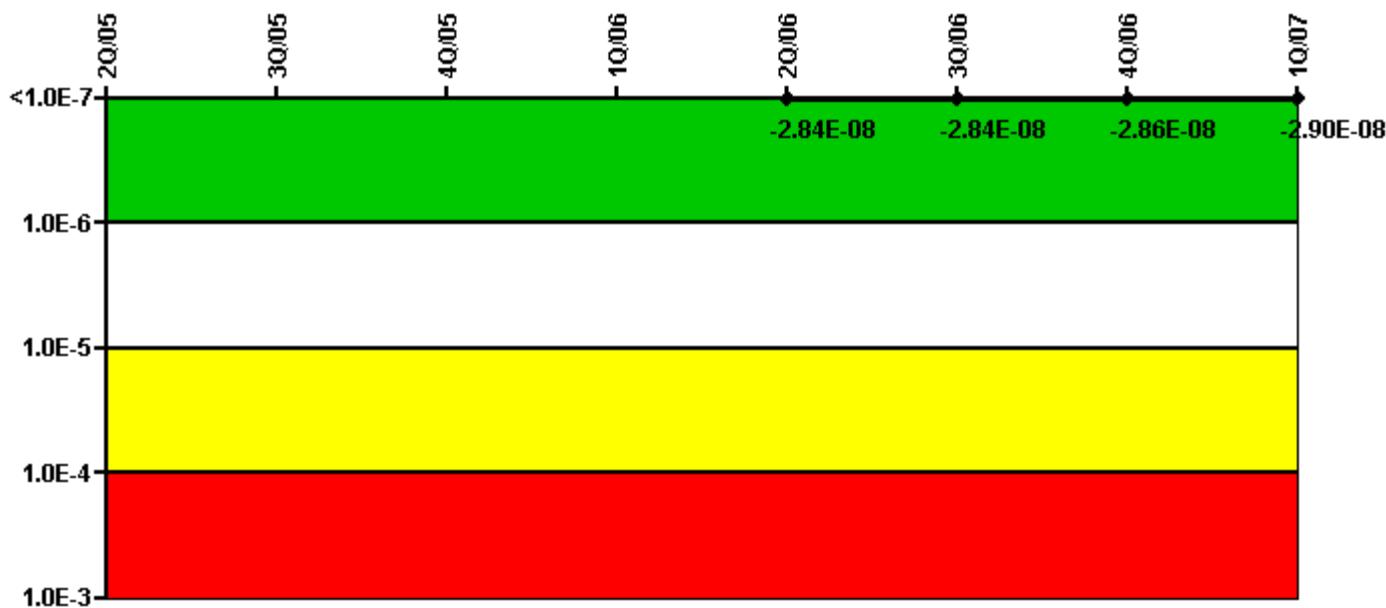
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)					2.50E-08	4.50E-08	6.00E-08	7.40E-08
URI (Δ CDF)					-2.40E-07	-2.30E-07	-2.30E-07	4.40E-07
PLE					NO	NO	NO	NO
Indicator value					-2.15E-07	-1.85E-07	-1.70E-07	5.14E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



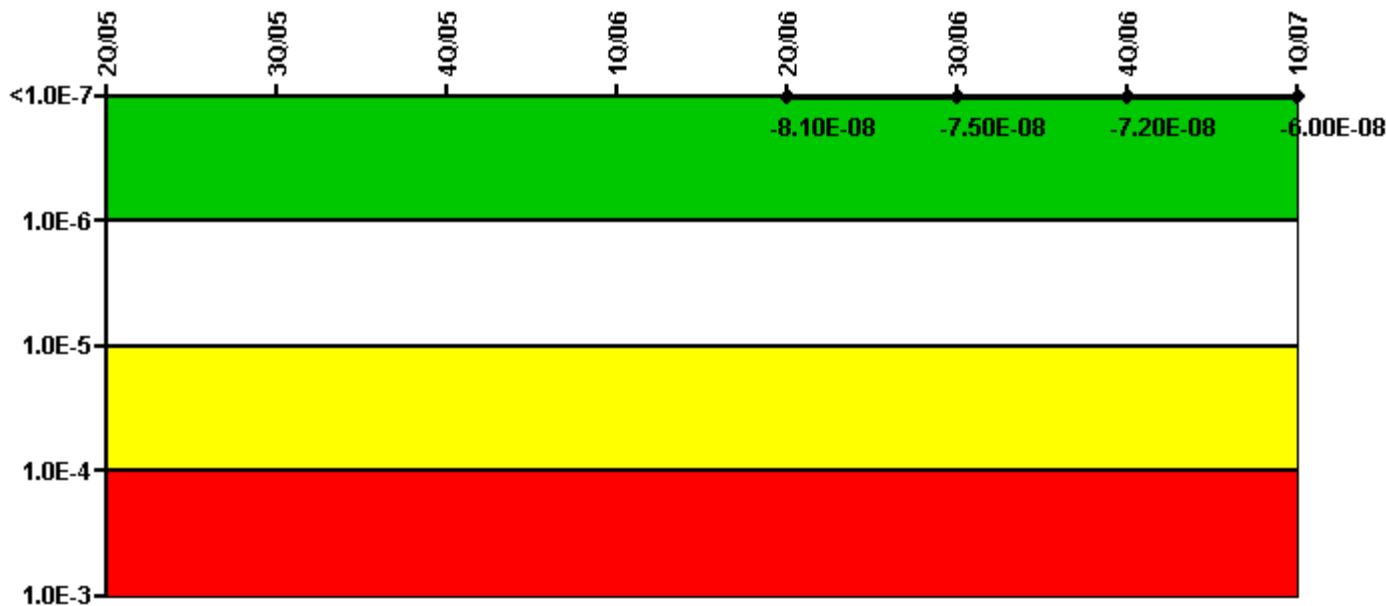
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)					-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08
URI (Δ CDF)					-4.40E-09	-4.40E-09	-4.60E-09	-5.00E-09
PLE					NO	NO	NO	NO
Indicator value					-2.84E-08	-2.84E-08	-2.86E-08	-2.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



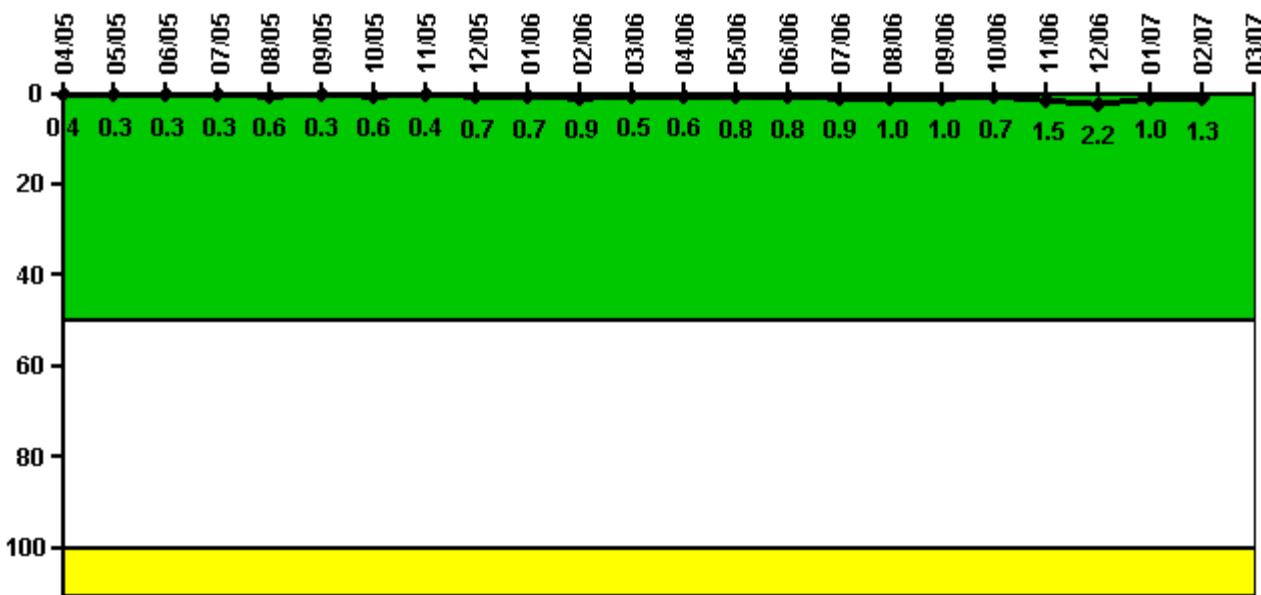
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (Δ CDF)					1.00E-08	1.50E-08	1.80E-08	3.00E-08
URI (Δ CDF)					-9.10E-08	-9.00E-08	-9.00E-08	-9.00E-08
PLE					NO	NO	NO	NO
Indicator value					-8.10E-08	-7.50E-08	-7.20E-08	-6.00E-08

Licensee Comments: none

Reactor Coolant System Activity



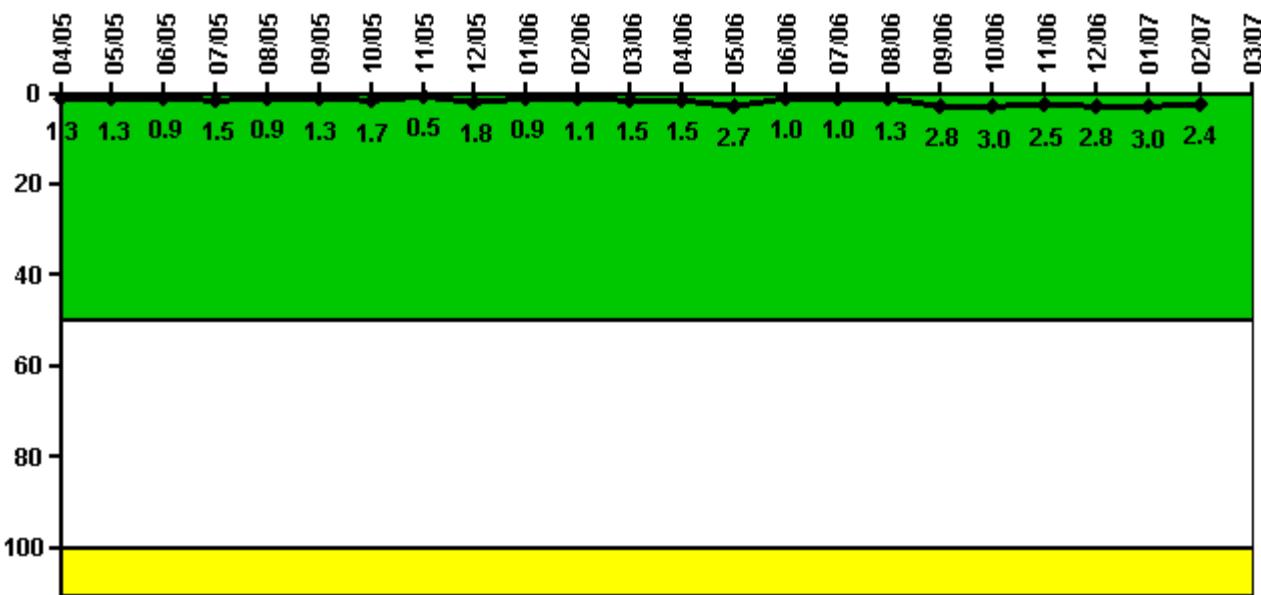
Thresholds: White > 50.0 Yellow > 100.0

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	0.003780	0.003410	0.003020	0.003010	0.005790	0.003180	0.005620	0.004070	0.006690	0.006580	0.008720	0.005310
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	0.4	0.3	0.3	0.3	0.6	0.3	0.6	0.4	0.7	0.7	0.9	0.5
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	0.005820	0.007540	0.008390	0.009170	0.009820	0.009930	0.007360	0.014800	0.022400	0.009950	0.013400	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	0.6	0.8	0.8	0.9	1.0	1.0	0.7	1.5	2.2	1.0	1.3	N/A

Licensee Comments: none

Reactor Coolant System Leakage



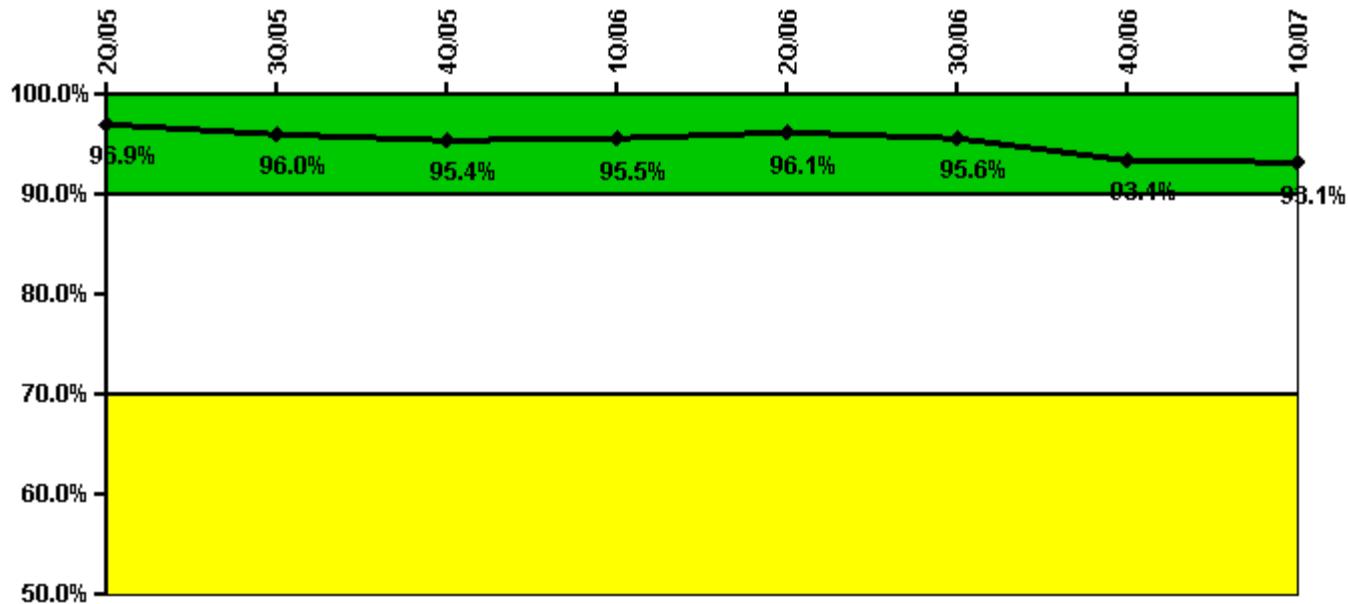
Thresholds: White > 50.0 Yellow > 100.0

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	0.130	0.130	0.090	0.147	0.093	0.134	0.170	0.050	0.180	0.086	0.105	0.153
Indicator value	1.3	1.3	0.9	1.5	0.9	1.3	1.7	0.5	1.8	0.9	1.1	1.5
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	0.150	0.273	0.097	0.100	0.130	0.283	0.299	0.250	0.281	0.297	0.241	N/A
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	1.5	2.7	1.0	1.0	1.3	2.8	3.0	2.5	2.8	3.0	2.4	N/A

Licensee Comments: none

Drill/Exercise Performance



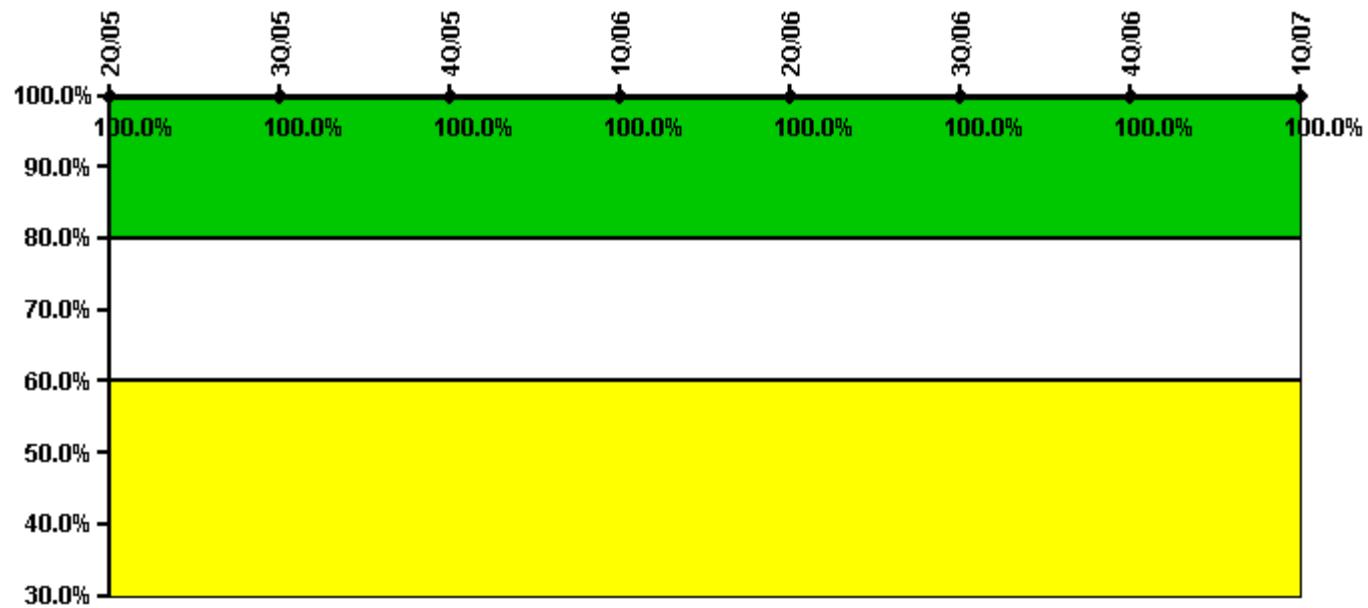
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful opportunities	0	49.0	107.0	4.0	58.0	56.0	78.0	1.0
Total opportunities	0	52.0	112.0	4.0	59.0	60.0	90.0	2.0
Indicator value	96.9%	96.0%	95.4%	95.5%	96.1%	95.6%	93.4%	93.1%

Licensee Comments: none

ERO Drill Participation



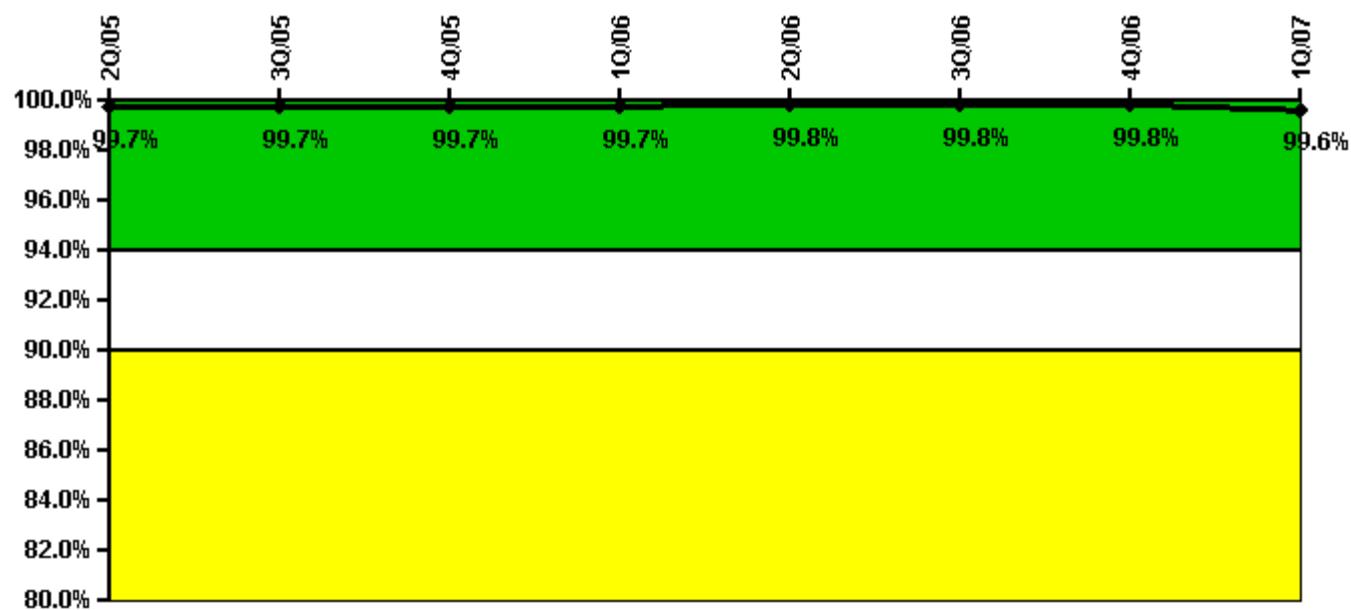
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Participating Key personnel	62.0	62.0	59.0	56.0	68.0	66.0	68.0	64.0
Total Key personnel	62.0	62.0	59.0	56.0	68.0	66.0	68.0	64.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



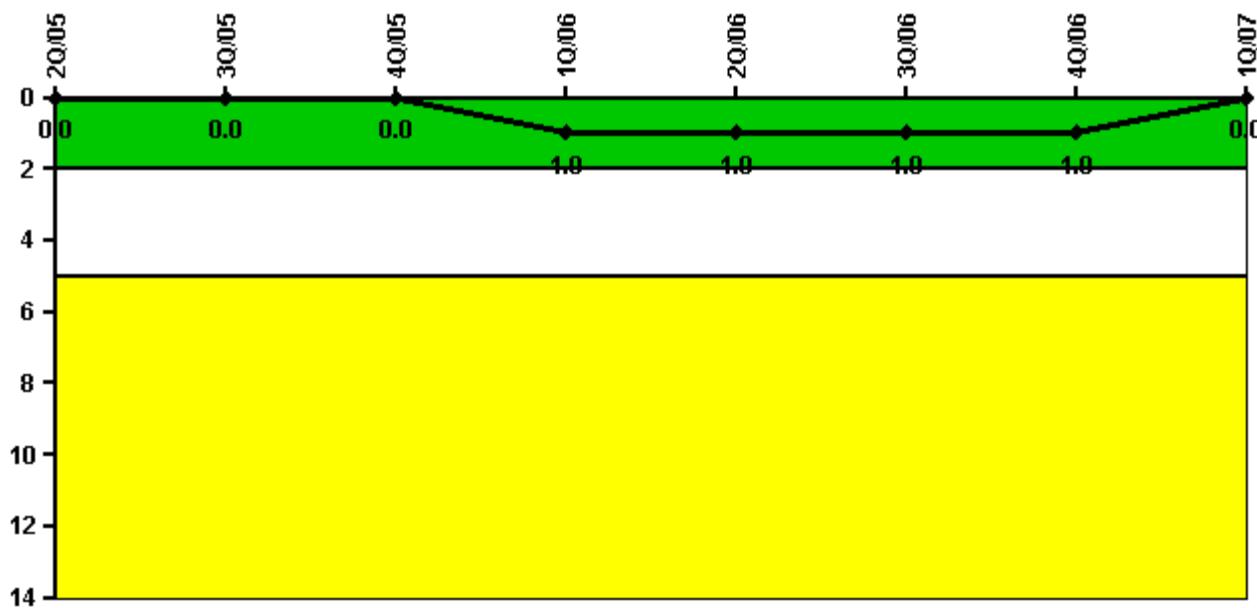
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful siren-tests	944	949	946	947	948	946	948	940
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.7%	99.7%	99.7%	99.7%	99.8%	99.8%	99.8%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



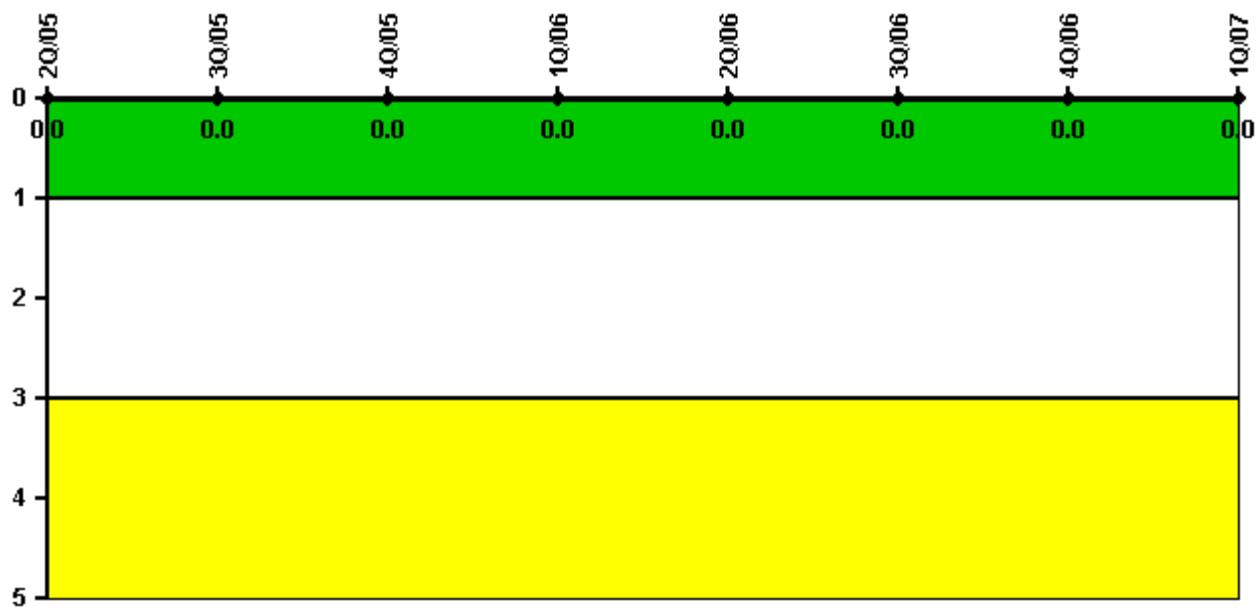
Thresholds: White > 2.0 Yellow > 5.0

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	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	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

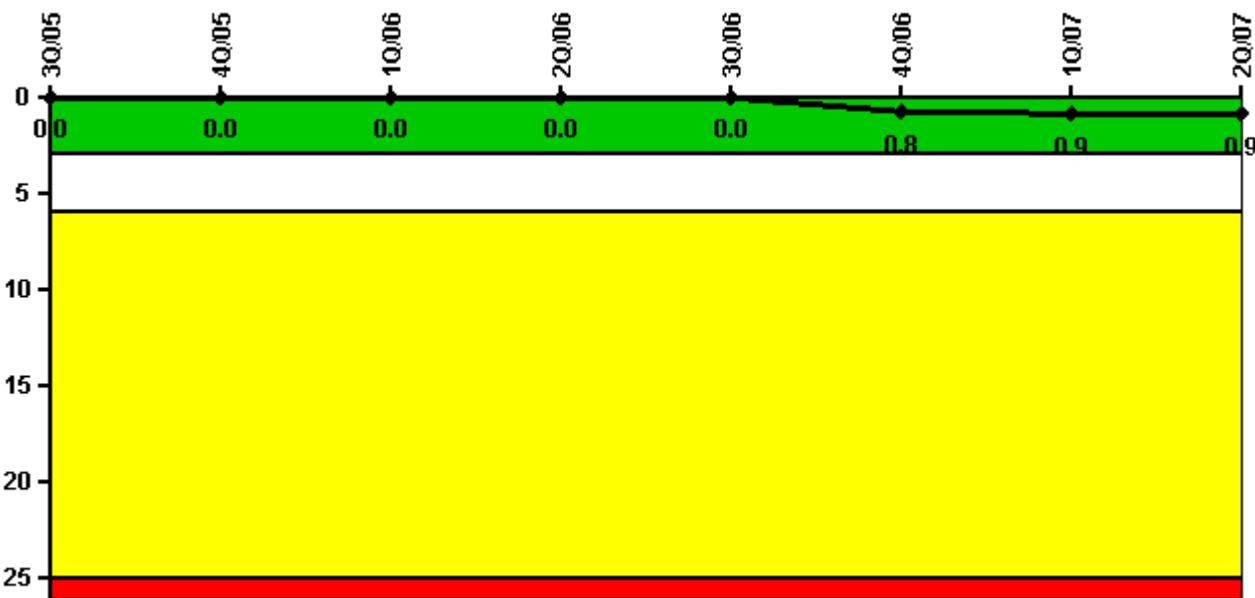
[Physical Protection](#) information not publicly available.

Calvert Cliffs 2

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	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	2160.0	2183.0	2208.0	2090.8	1341.5	2162.4
Indicator value	0	0	0	0	0	0.8	0.9	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



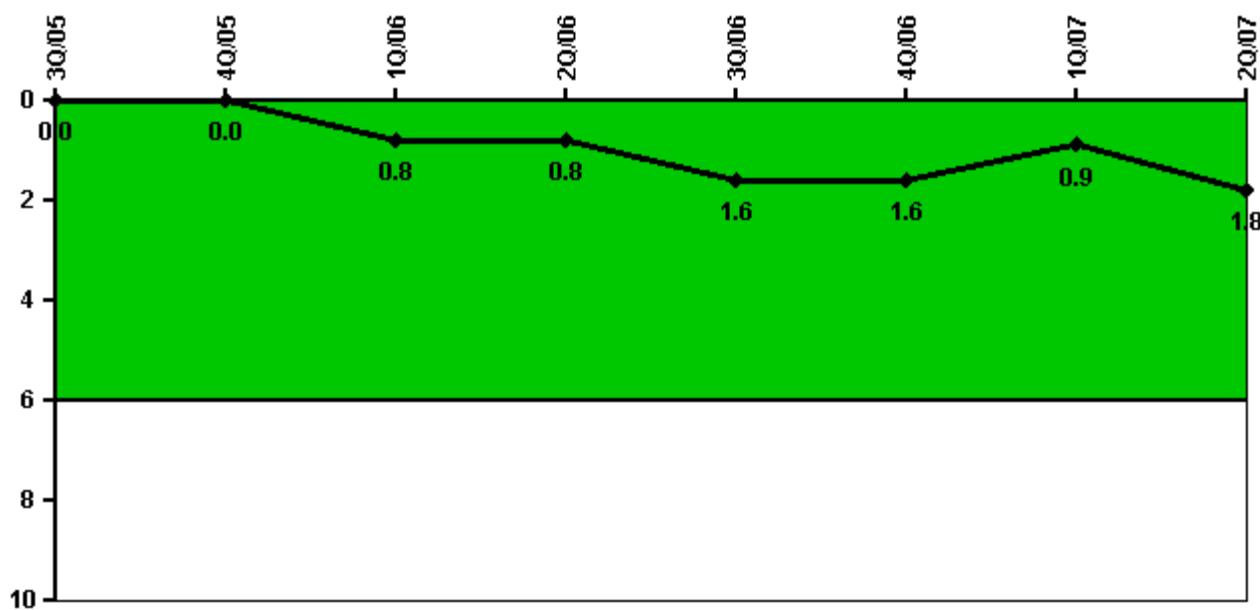
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	1.0	1.0	1.0	1.0	1.0	1.0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



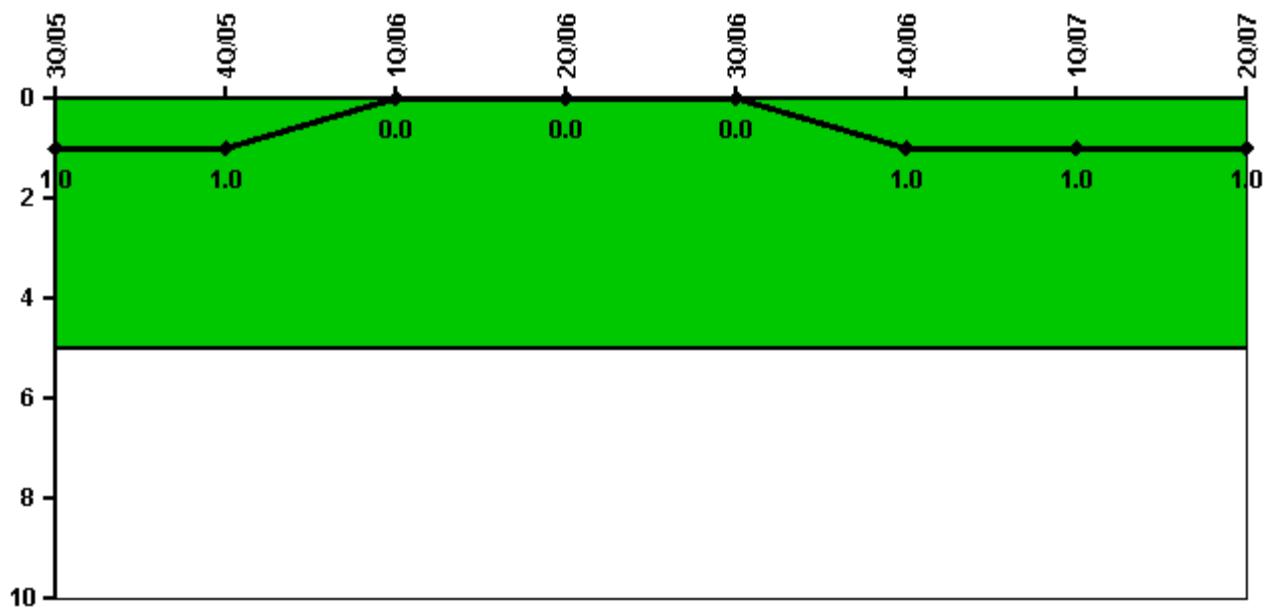
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned power changes	0	0	1.0	0	1.0	0	0	1.0
Critical hours	2208.0	2209.0	2160.0	2183.0	2208.0	2090.8	1341.5	2162.4
Indicator value	0	0	0.8	0.8	1.6	1.6	0.9	1.8

Licensee Comments: none

Safety System Functional Failures (PWR)



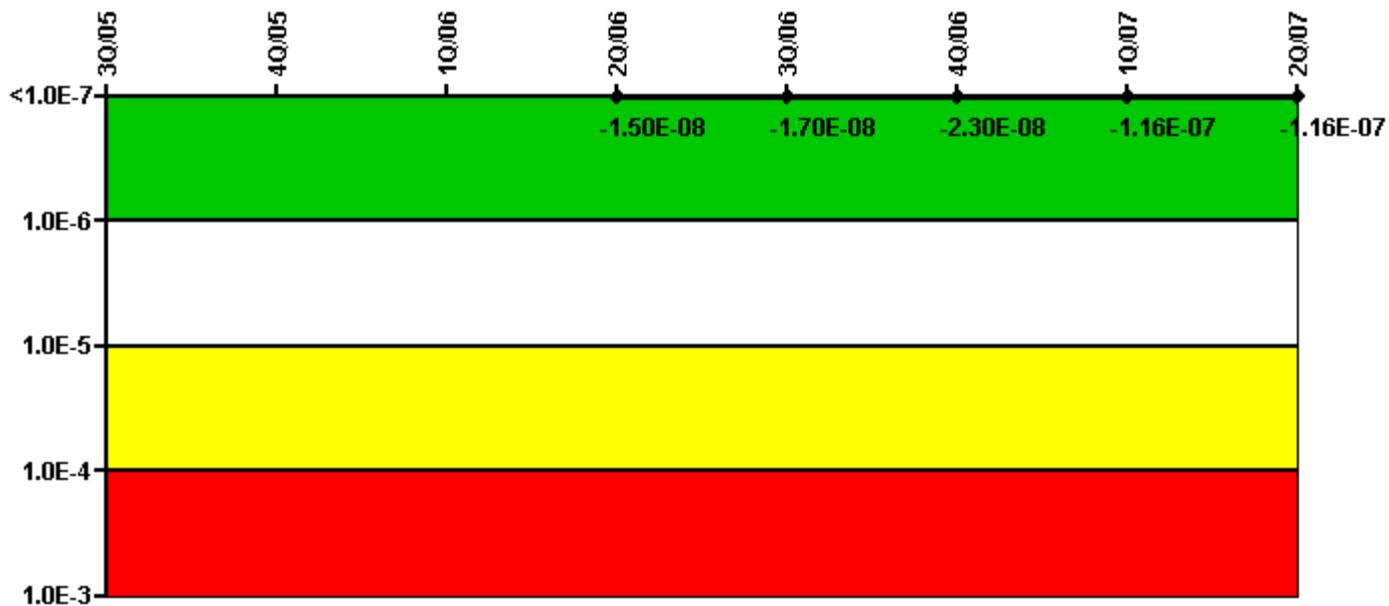
Thresholds: White > 5.0

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	0	0	0	1	0	0
Indicator value	1	1	0	0	0	1	1	1

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



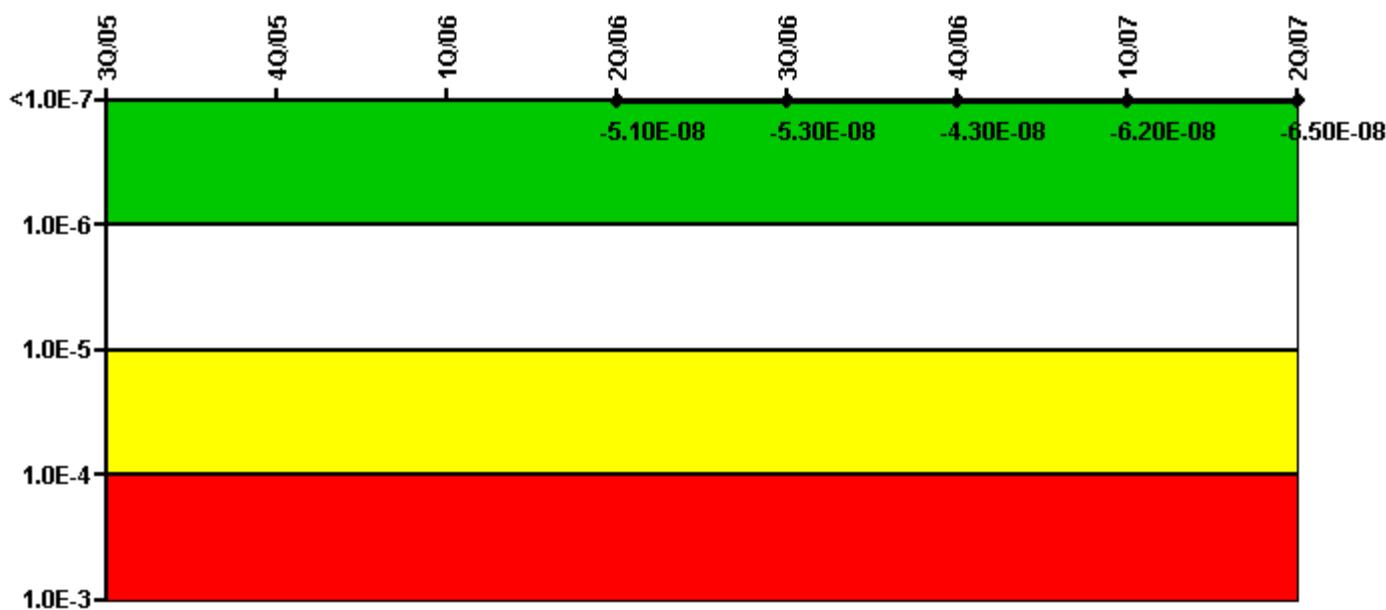
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (Δ CDF)				3.10E-08	2.90E-08	1.50E-08	1.40E-08	1.40E-08
URI (Δ CDF)				-4.60E-08	-4.60E-08	-3.80E-08	-1.30E-07	-1.30E-07
PLE				NO	NO	NO	NO	NO
Indicator value				-1.50E-08	-1.70E-08	-2.30E-08	-1.16E-07	-1.16E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



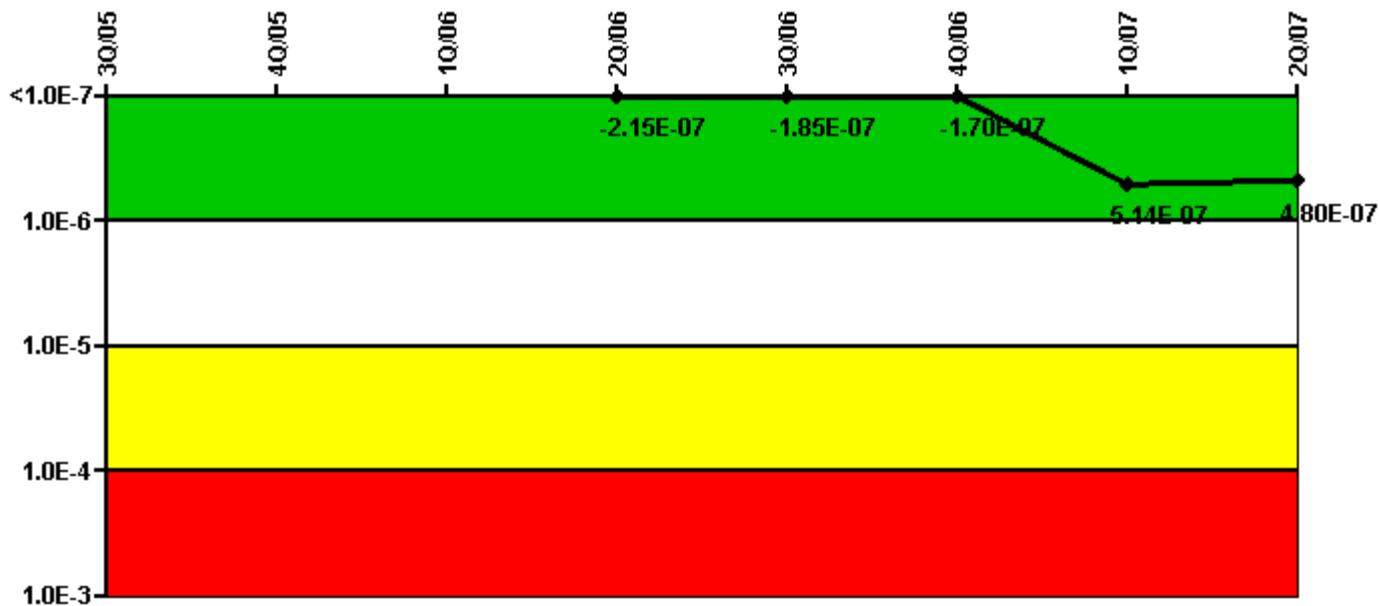
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)				2.80E-08	2.60E-08	3.90E-08	3.00E-08	2.60E-08
URI (Δ CDF)				-7.90E-08	-7.90E-08	-8.20E-08	-9.20E-08	-9.10E-08
PLE				NO	NO	NO	NO	NO
Indicator value				-5.10E-08	-5.30E-08	-4.30E-08	-6.20E-08	-6.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



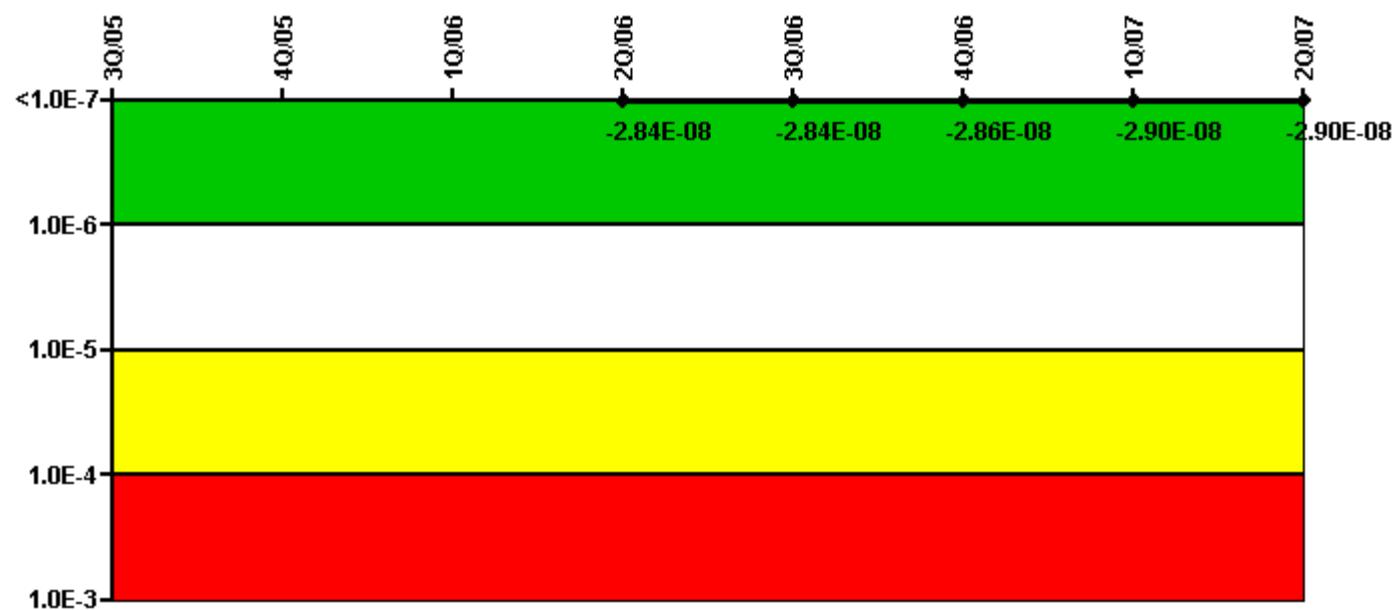
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (Δ CDF)				2.50E-08	4.50E-08	6.00E-08	7.40E-08	1.00E-07
URI (Δ CDF)				-2.40E-07	-2.30E-07	-2.30E-07	4.40E-07	3.80E-07
PLE				NO	NO	NO	NO	NO
Indicator value				-2.15E-07	-1.85E-07	-1.70E-07	5.14E-07	4.80E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



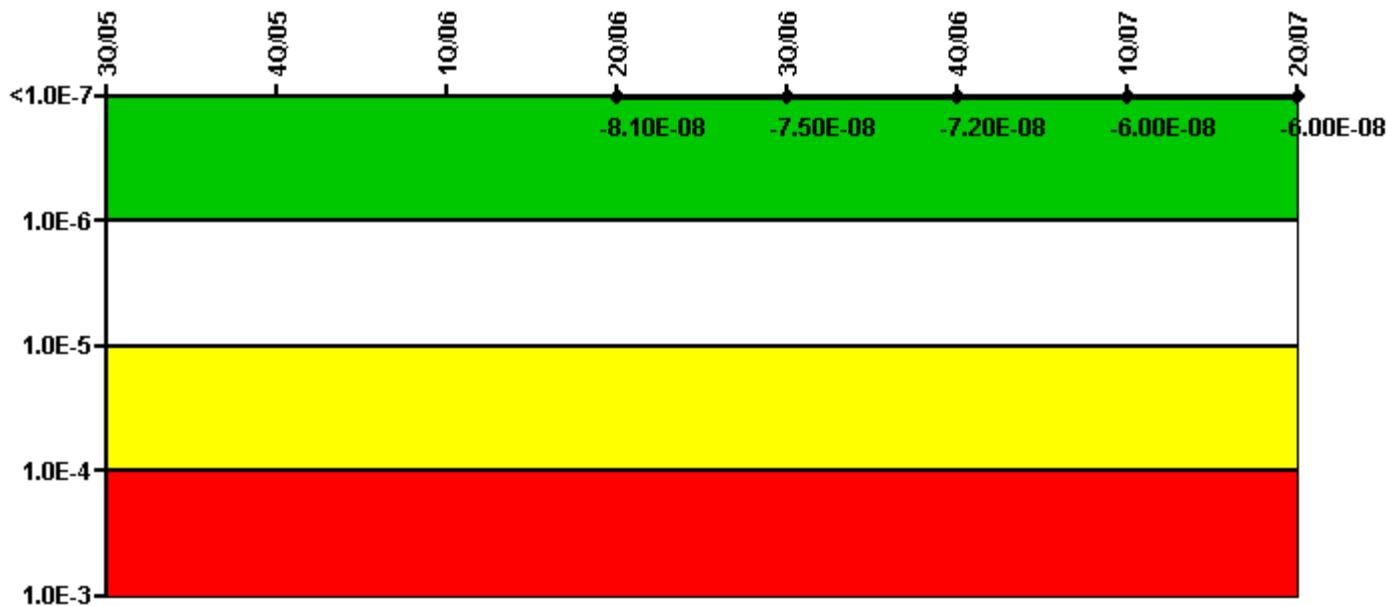
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)				-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08
URI (Δ CDF)				-4.40E-09	-4.40E-09	-4.60E-09	-5.00E-09	-5.00E-09
PLE				NO	NO	NO	NO	NO
Indicator value				-2.84E-08	-2.84E-08	-2.86E-08	-2.90E-08	-2.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



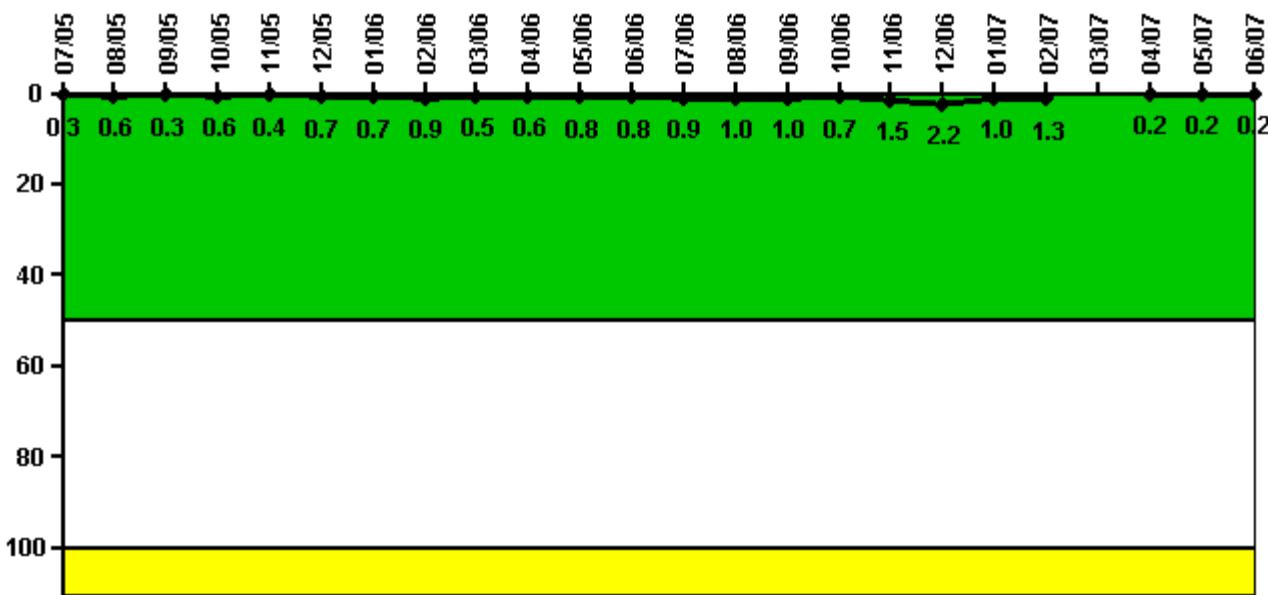
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (Δ CDF)				1.00E-08	1.50E-08	1.80E-08	3.00E-08	3.00E-08
URI (Δ CDF)				-9.10E-08	-9.00E-08	-9.00E-08	-9.00E-08	-9.00E-08
PLE				NO	NO	NO	NO	NO
Indicator value				-8.10E-08	-7.50E-08	-7.20E-08	-6.00E-08	-6.00E-08

Licensee Comments: none

Reactor Coolant System Activity



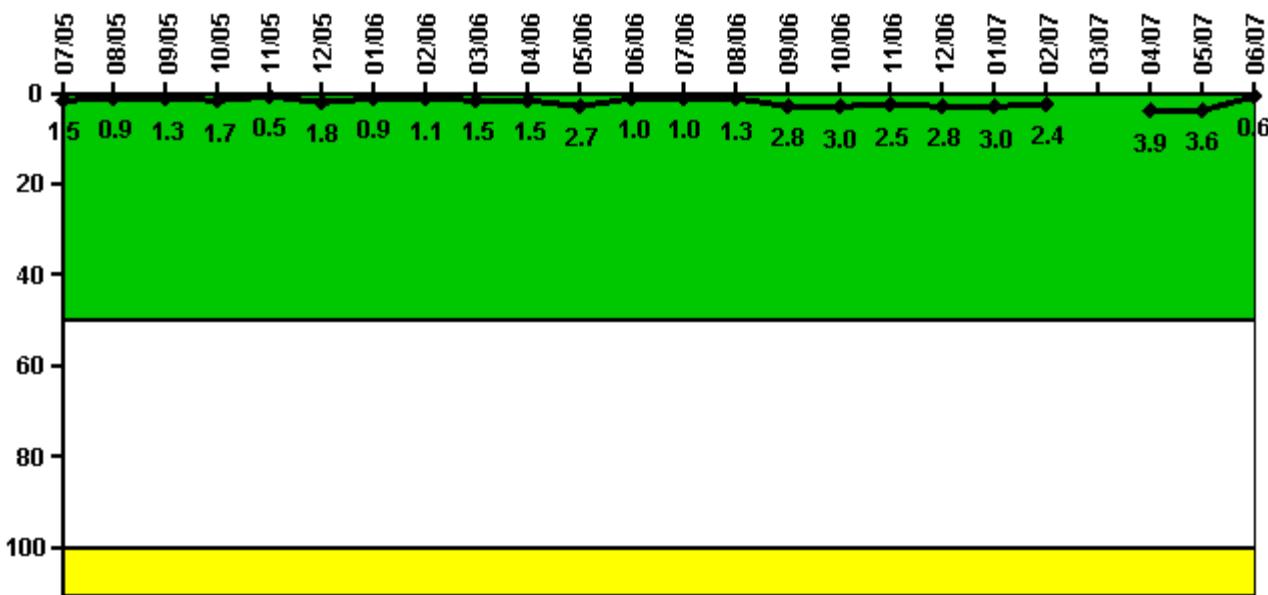
Thresholds: White > 50.0 Yellow > 100.0

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	0.003010	0.005790	0.003180	0.005620	0.004070	0.006690	0.006580	0.008720	0.005310	0.005820	0.007540	0.008390
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	0.3	0.6	0.3	0.6	0.4	0.7	0.7	0.9	0.5	0.6	0.8	0.8
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	0.009170	0.009820	0.009930	0.007360	0.014800	0.022400	0.009950	0.013400	N/A	0.001730	0.001650	0.001770
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	0.9	1.0	1.0	0.7	1.5	2.2	1.0	1.3	N/A	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



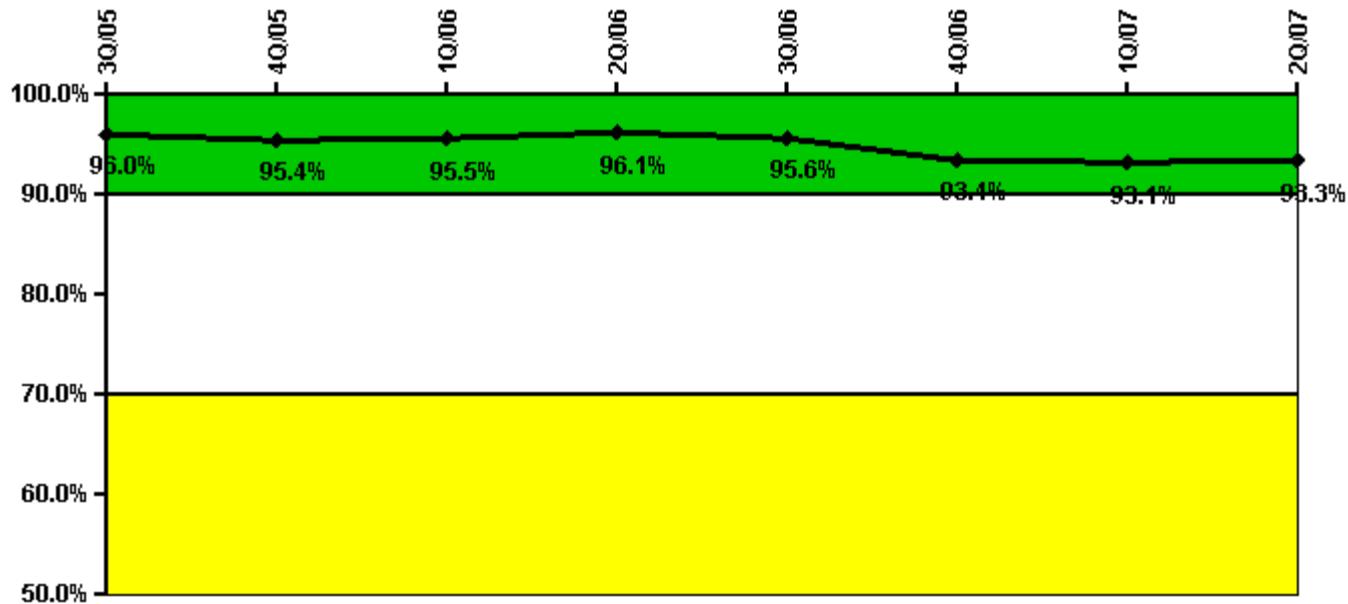
Thresholds: White > 50.0 Yellow > 100.0

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	0.147	0.093	0.134	0.170	0.050	0.180	0.086	0.105	0.153	0.150	0.273	0.097
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	1.5	0.9	1.3	1.7	0.5	1.8	0.9	1.1	1.5	1.5	2.7	1.0
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	0.100	0.130	0.283	0.299	0.250	0.281	0.297	0.241	N/A	0.390	0.360	0.060
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	1.0	1.3	2.8	3.0	2.5	2.8	3.0	2.4	N/A	3.9	3.6	0.6

Licensee Comments: none

Drill/Exercise Performance



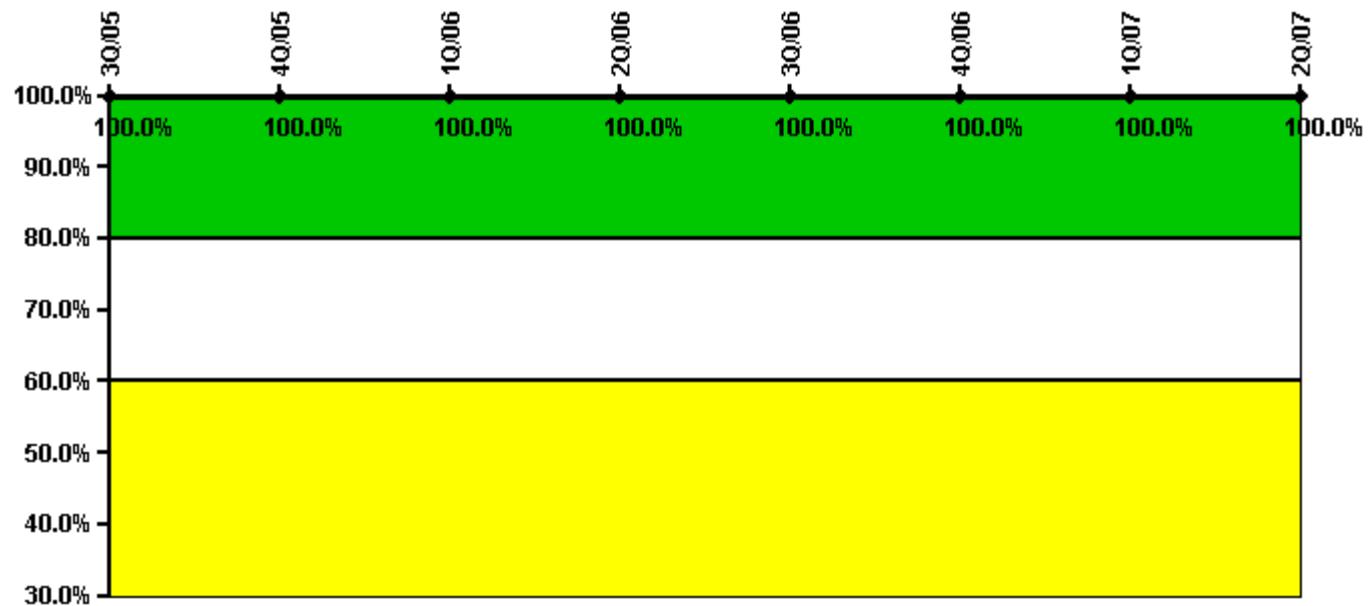
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful opportunities	49.0	107.0	4.0	58.0	56.0	78.0	1.0	21.0
Total opportunities	52.0	112.0	4.0	59.0	60.0	90.0	2.0	22.0
Indicator value	96.0%	95.4%	95.5%	96.1%	95.6%	93.4%	93.1%	93.3%

Licensee Comments: none

ERO Drill Participation



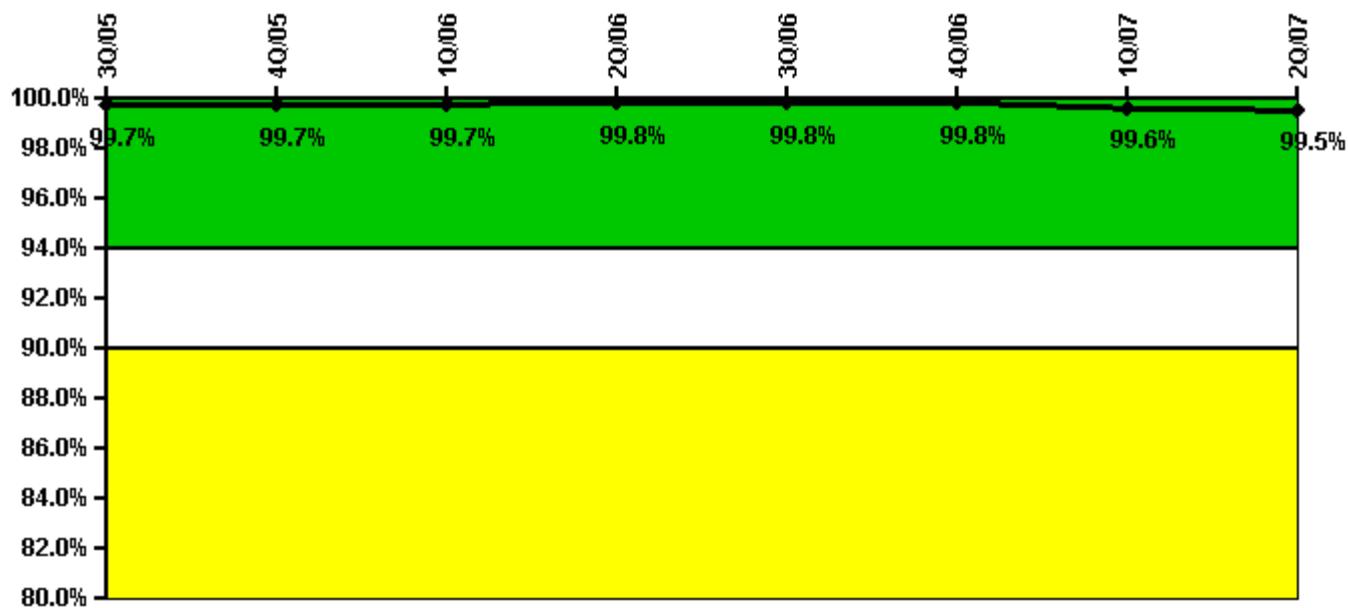
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Participating Key personnel	62.0	59.0	56.0	68.0	66.0	68.0	64.0	66.0
Total Key personnel	62.0	59.0	56.0	68.0	66.0	68.0	64.0	66.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



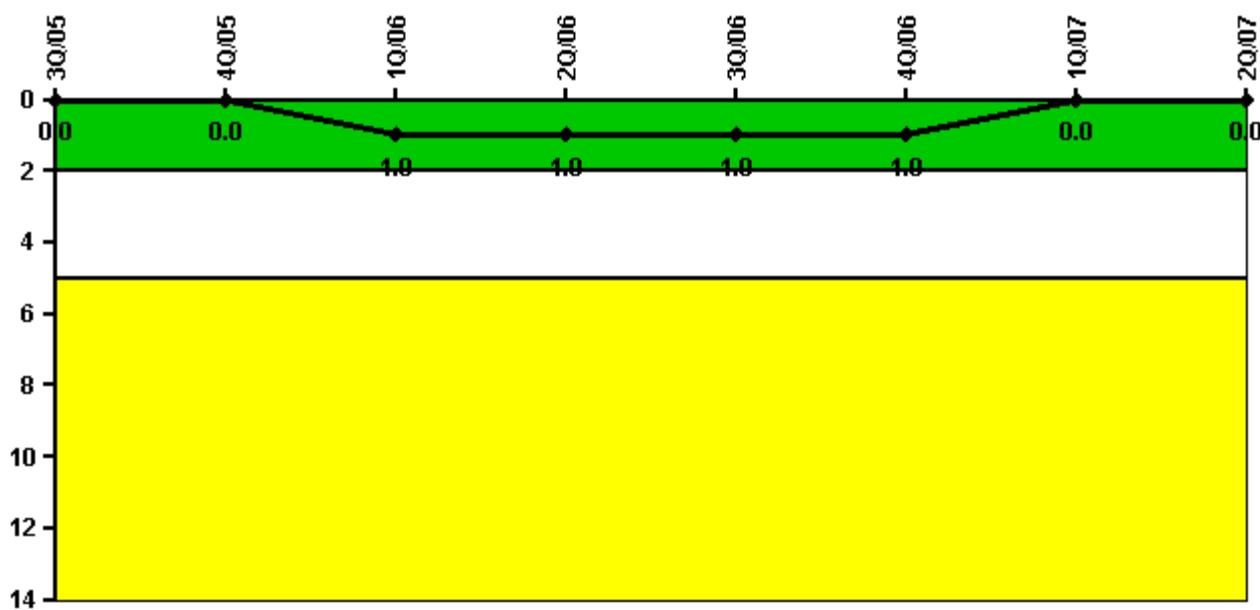
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful siren-tests	949	946	947	948	946	948	940	944
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.7%	99.7%	99.7%	99.8%	99.8%	99.8%	99.6%	99.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness



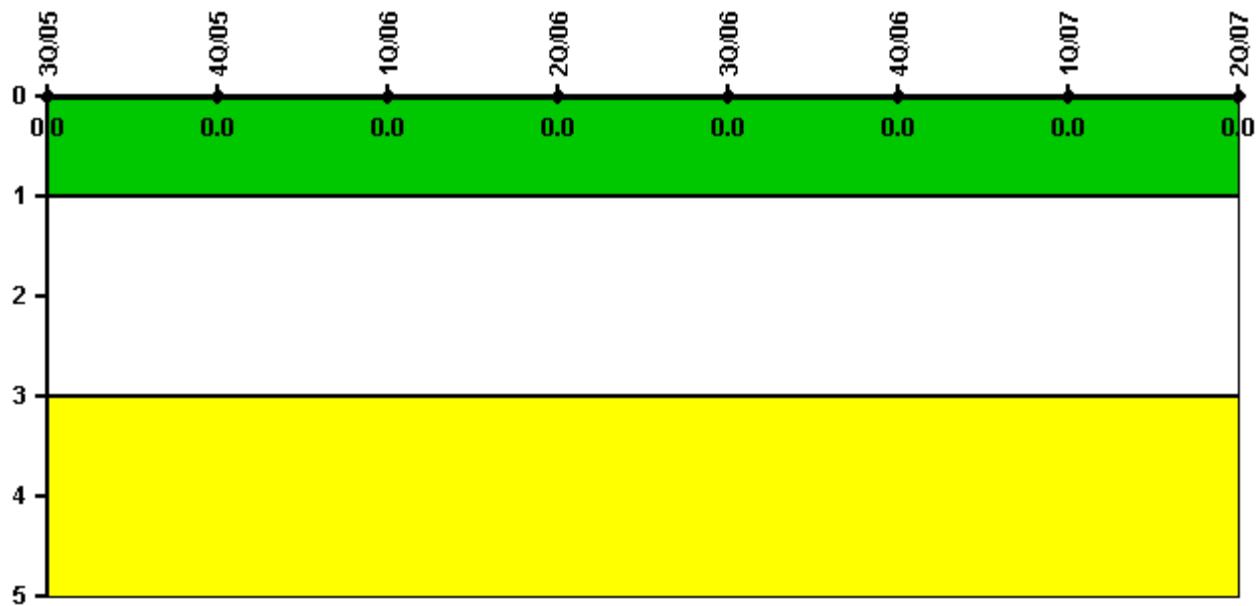
Thresholds: White > 2.0 Yellow > 5.0

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	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	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

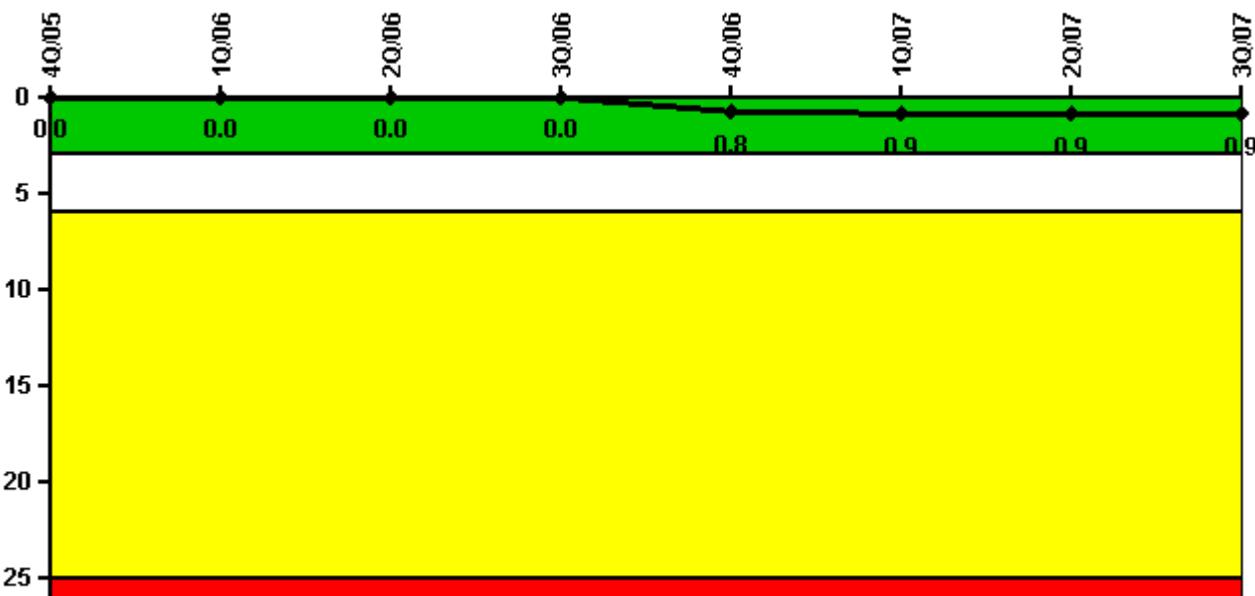
[Physical Protection](#) information not publicly available.

Calvert Cliffs 2

3Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

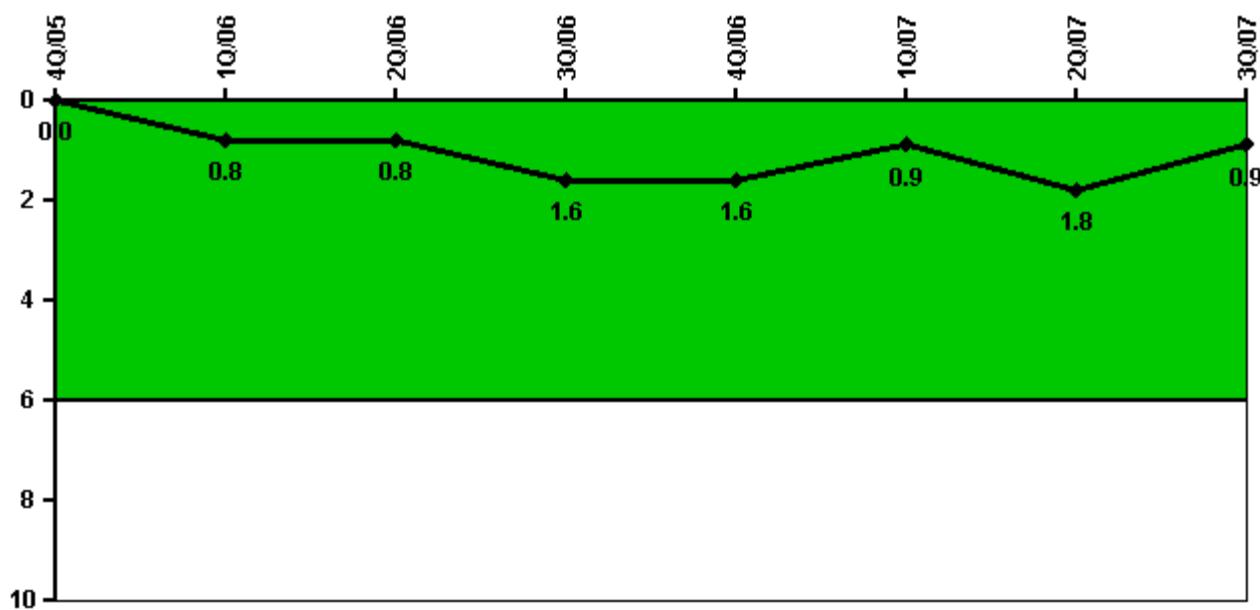


Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2209.0	2160.0	2183.0	2208.0	2090.8	1341.5	2162.4	2208.0
Indicator value	0	0	0	0	0.8	0.9	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



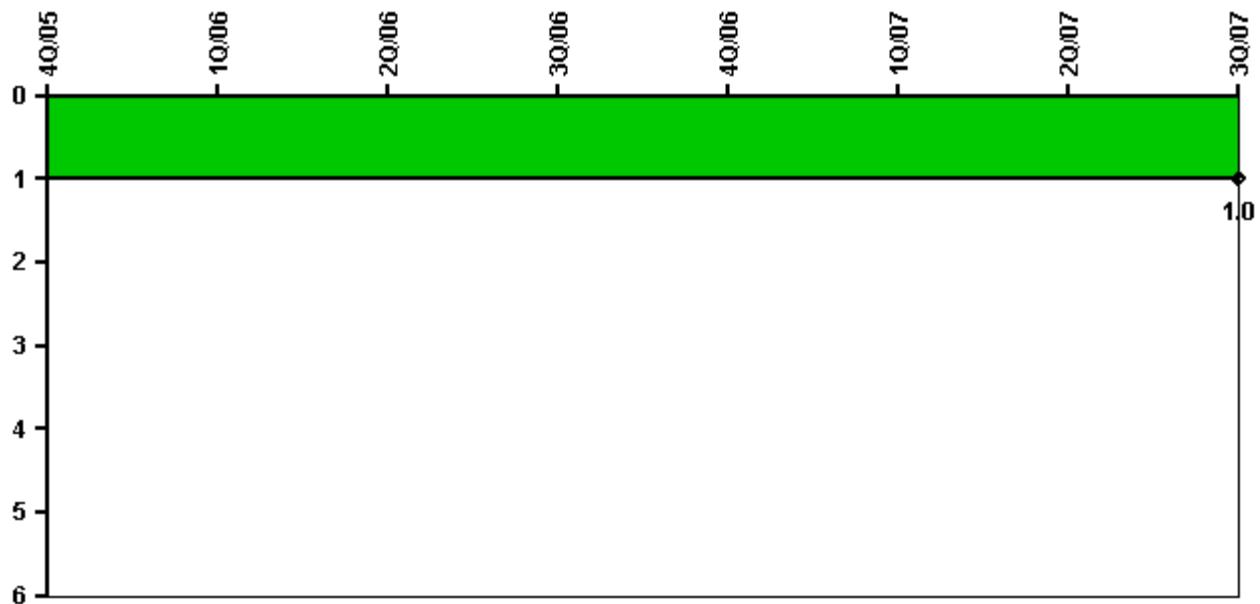
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned power changes	0	1.0	0	1.0	0	0	1.0	0
Critical hours	2209.0	2160.0	2183.0	2208.0	2090.8	1341.5	2162.4	2208.0
Indicator value	0	0.8	0.8	1.6	1.6	0.9	1.8	0.9

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

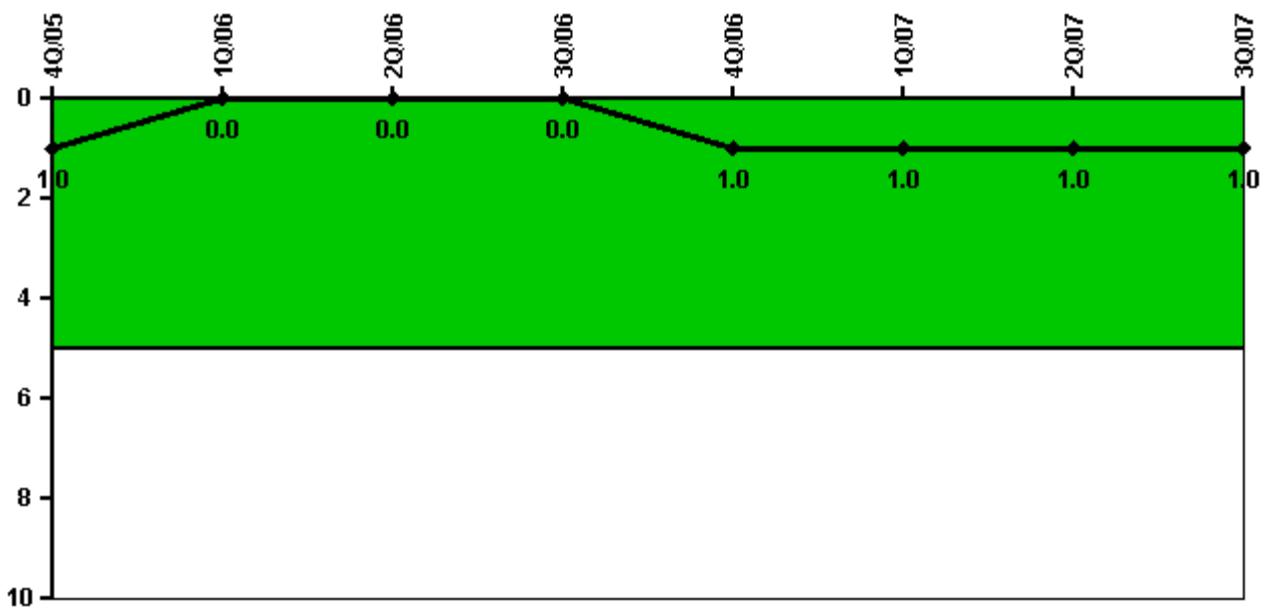
Notes

Unplanned Scrams with Complications	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Scrams with complications					1.0	0	0	0
Indicator value								1.0

Licensee Comments:

4Q/06: The Unit 2 reactor scram that occurred on 11/16/2006 meets the new criteria for Scrams with Complications. The specific criteria "Was a Safety Injection Signal received?" was met.

Safety System Functional Failures (PWR)



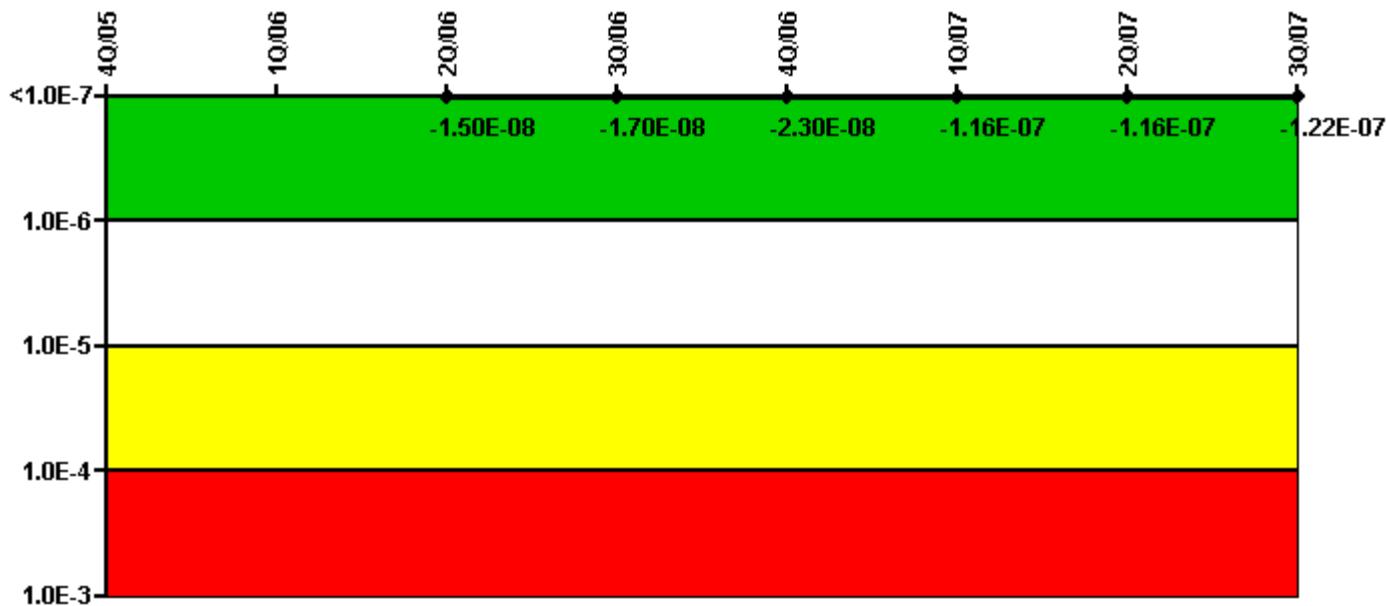
Thresholds: White > 5.0

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	0	0	0	1	0	0	0
Indicator value	1	0	0	0	1	1	1	1

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



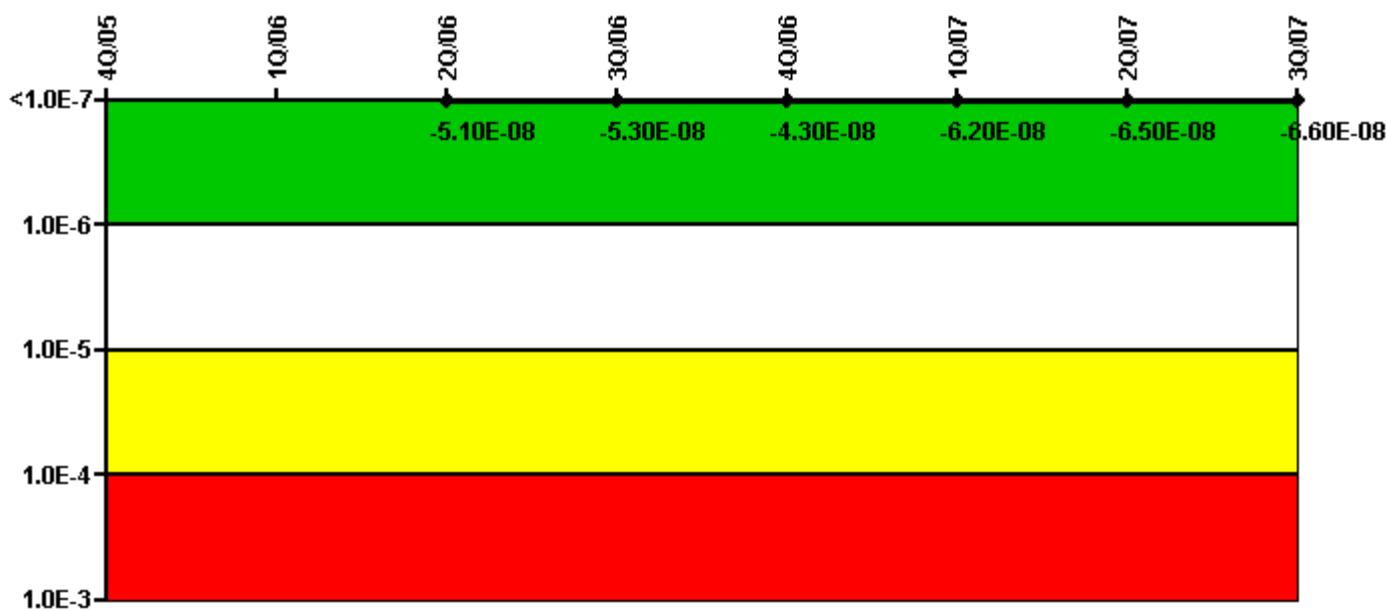
Thresholds: White > $1.00\text{E-}6$ Yellow > $1.00\text{E-}5$ Red > $1.00\text{E-}4$

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (Δ CDF)				$3.10\text{E-}08$	$2.90\text{E-}08$	$1.50\text{E-}08$	$1.40\text{E-}08$	$1.40\text{E-}08$
URI (Δ CDF)				$-4.60\text{E-}08$	$-4.60\text{E-}08$	$-3.80\text{E-}08$	$-1.30\text{E-}07$	$-1.30\text{E-}07$
PLE				NO	NO	NO	NO	NO
Indicator value				$-1.50\text{E-}08$	$-1.70\text{E-}08$	$-2.30\text{E-}08$	$-1.16\text{E-}07$	$-1.16\text{E-}07$
								$-1.22\text{E-}07$

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



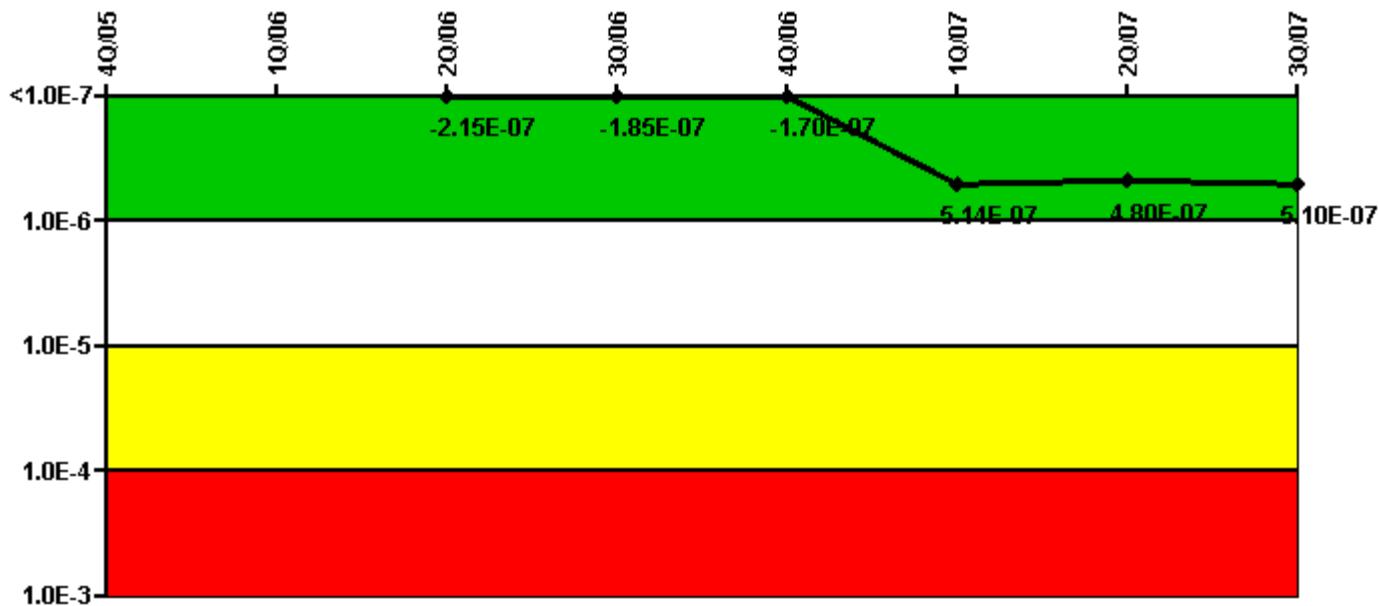
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)			2.80E-08	2.60E-08	3.90E-08	3.00E-08	2.60E-08	2.70E-08
URI (ΔCDF)			-7.90E-08	-7.90E-08	-8.20E-08	-9.20E-08	-9.10E-08	-9.30E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-5.10E-08	-5.30E-08	-4.30E-08	-6.20E-08	-6.50E-08	-6.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



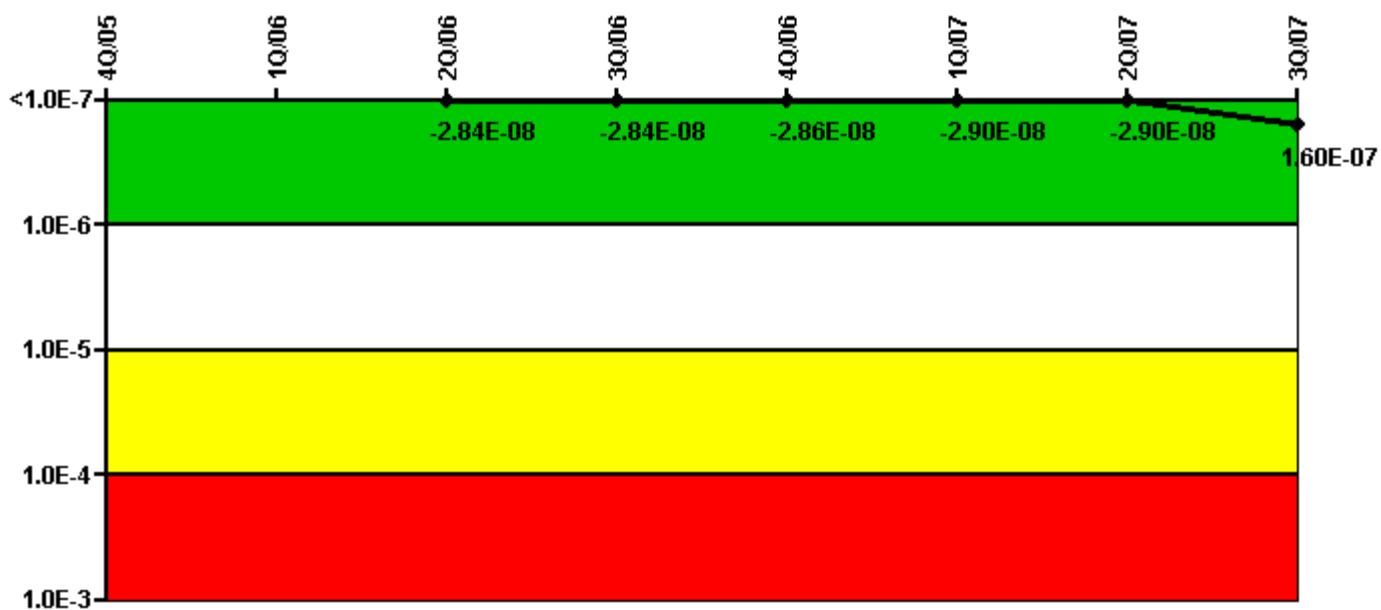
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			2.50E-08	4.50E-08	6.00E-08	7.40E-08	1.00E-07	1.70E-07
URI (ΔCDF)			-2.40E-07	-2.30E-07	-2.30E-07	4.40E-07	3.80E-07	3.40E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-2.15E-07	-1.85E-07	-1.70E-07	5.14E-07	4.80E-07	5.10E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



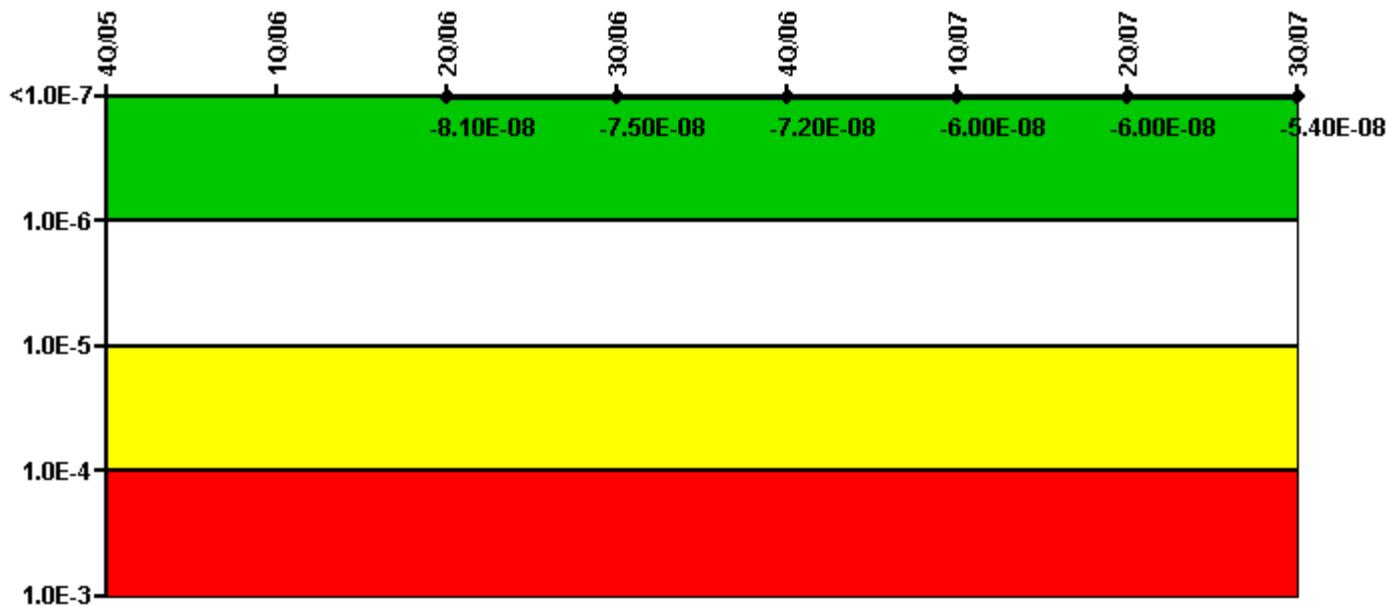
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	1.10E-07
URI (ΔCDF)			-4.40E-09	-4.40E-09	-4.60E-09	-5.00E-09	-5.00E-09	5.00E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-2.84E-08	-2.84E-08	-2.86E-08	-2.90E-08	-2.90E-08	1.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



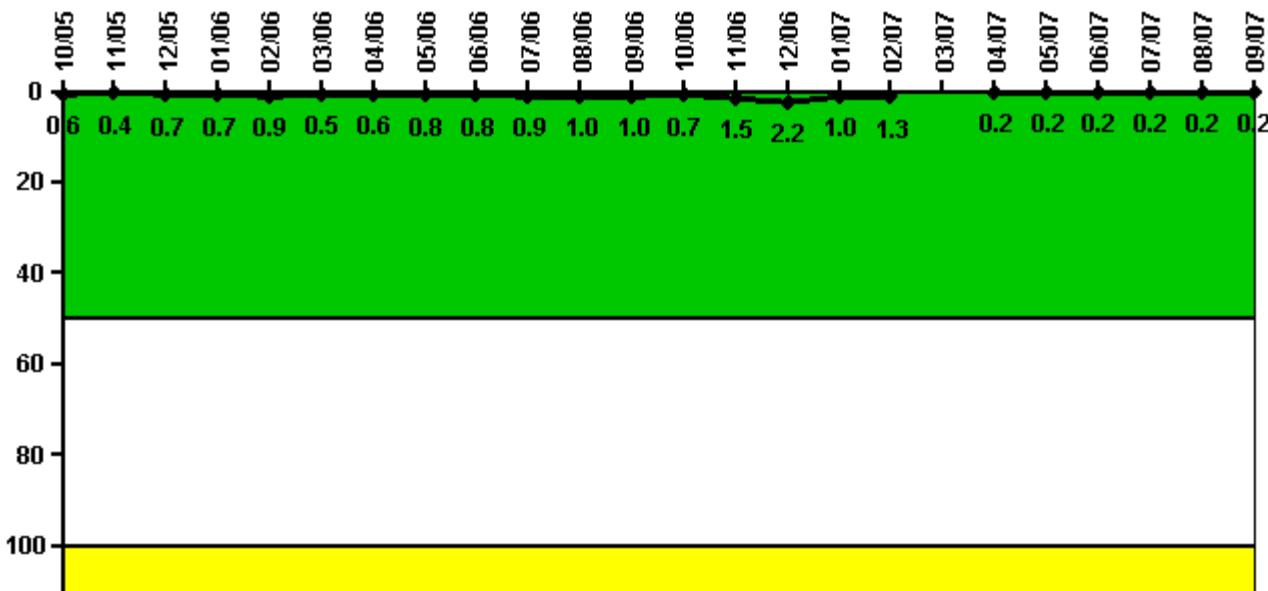
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (ΔCDF)			1.00E-08	1.50E-08	1.80E-08	3.00E-08	3.00E-08	3.60E-08
URI (ΔCDF)			-9.10E-08	-9.00E-08	-9.00E-08	-9.00E-08	-9.00E-08	-9.00E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-8.10E-08	-7.50E-08	-7.20E-08	-6.00E-08	-6.00E-08	-5.40E-08

Licensee Comments: none

Reactor Coolant System Activity



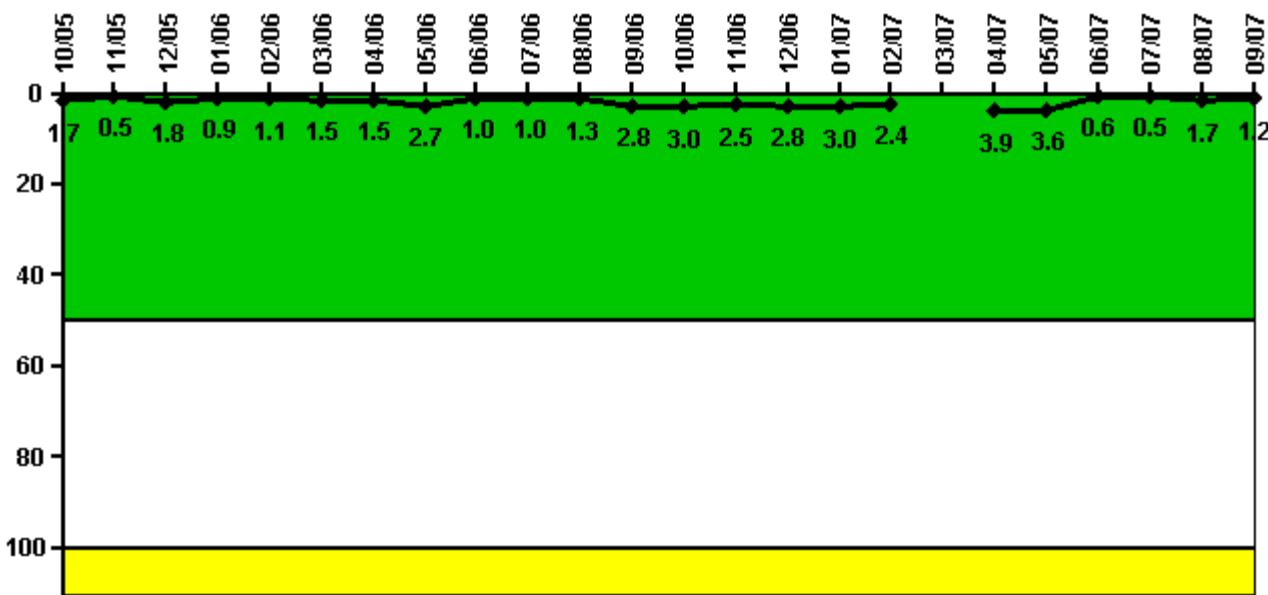
Thresholds: White > 50.0 Yellow > 100.0

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	0.005620	0.004070	0.006690	0.006580	0.008720	0.005310	0.005820	0.007540	0.008390	0.009170	0.009820	0.009930
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	0.6	0.4	0.7	0.7	0.9	0.5	0.6	0.8	0.8	0.9	1.0	1.0
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	0.007360	0.014800	0.022400	0.009950	0.013400	N/A	0.001730	0.001650	0.001770	0.001940	0.002000	0.002210
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	0.7	1.5	2.2	1.0	1.3	N/A	0.2	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



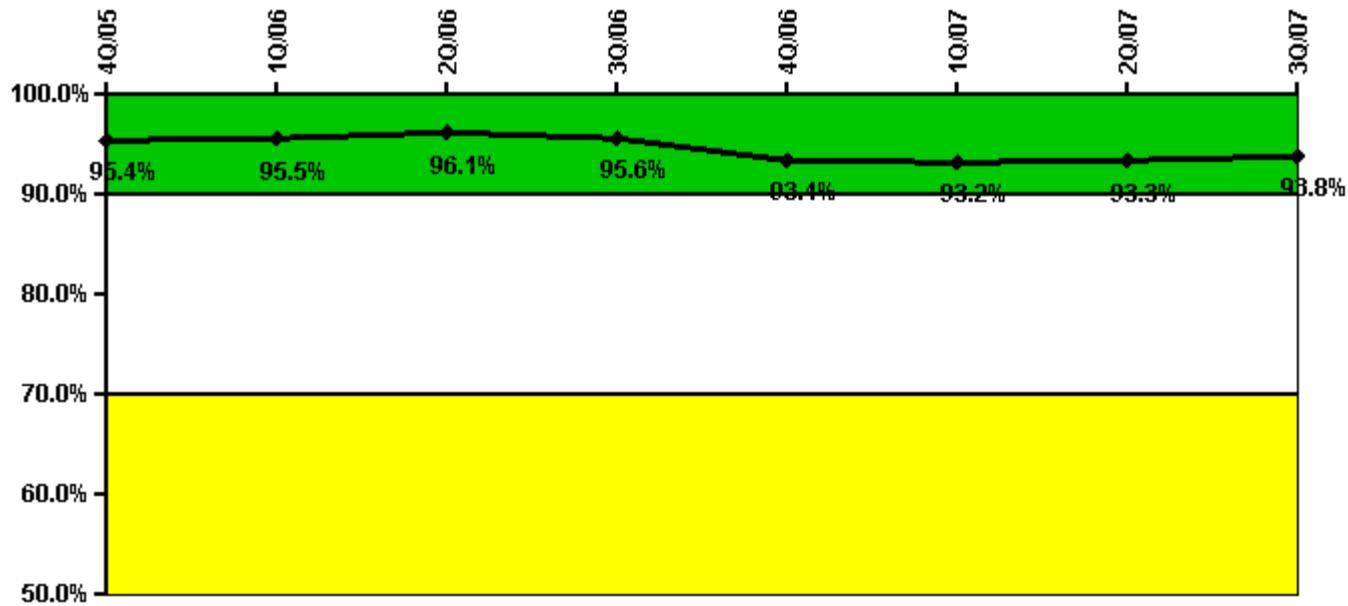
Thresholds: White > 50.0 Yellow > 100.0

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	0.170	0.050	0.180	0.086	0.105	0.153	0.150	0.273	0.097	0.100	0.130	0.283
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	1.7	0.5	1.8	0.9	1.1	1.5	1.5	2.7	1.0	1.0	1.3	2.8
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	0.299	0.250	0.281	0.297	0.241	N/A	0.390	0.360	0.060	0.050	0.170	0.120
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	3.0	2.5	2.8	3.0	2.4	N/A	3.9	3.6	0.6	0.5	1.7	1.2

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

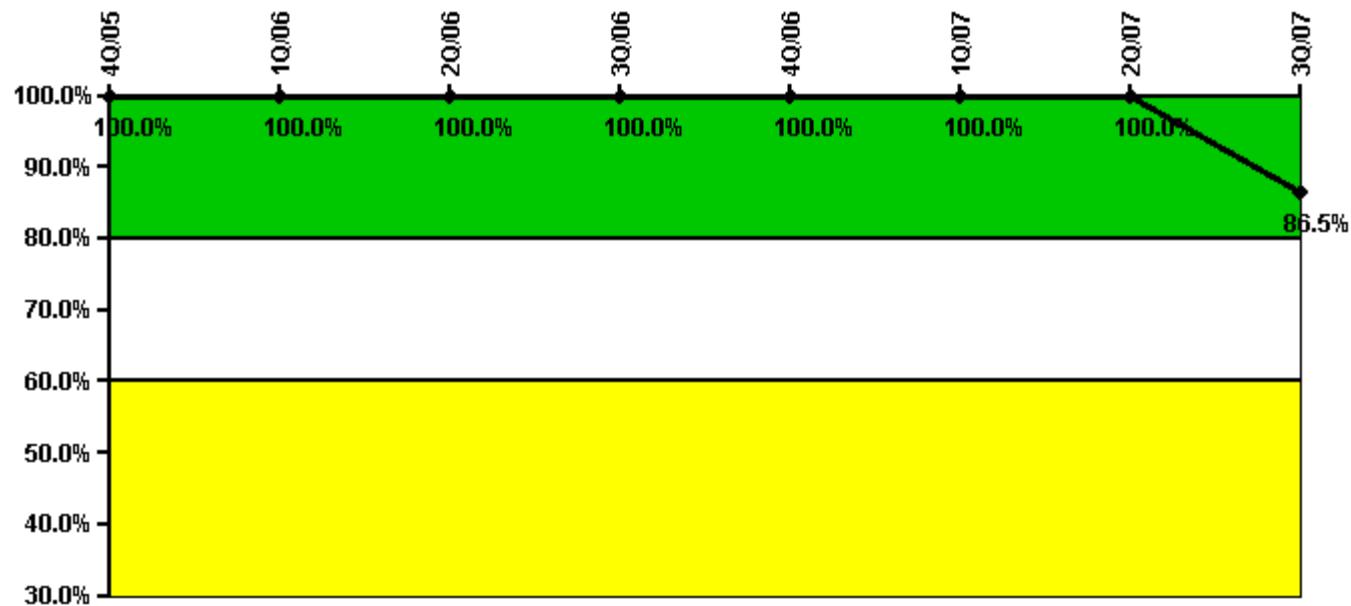
Notes

Drill/Exercise Performance	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful opportunities	107.0	4.0	58.0	56.0	78.0	2.0	21.0	36.0
Total opportunities	112.0	4.0	59.0	60.0	90.0	3.0	22.0	36.0
Indicator value	95.4%	95.5%	96.1%	95.6%	93.4%	93.2%	93.3%	93.8%

Licensee Comments:

1Q/07: EP reported 1 success out of 2 opportunities in January, whereas there were 2 successes out of 3.

ERO Drill Participation



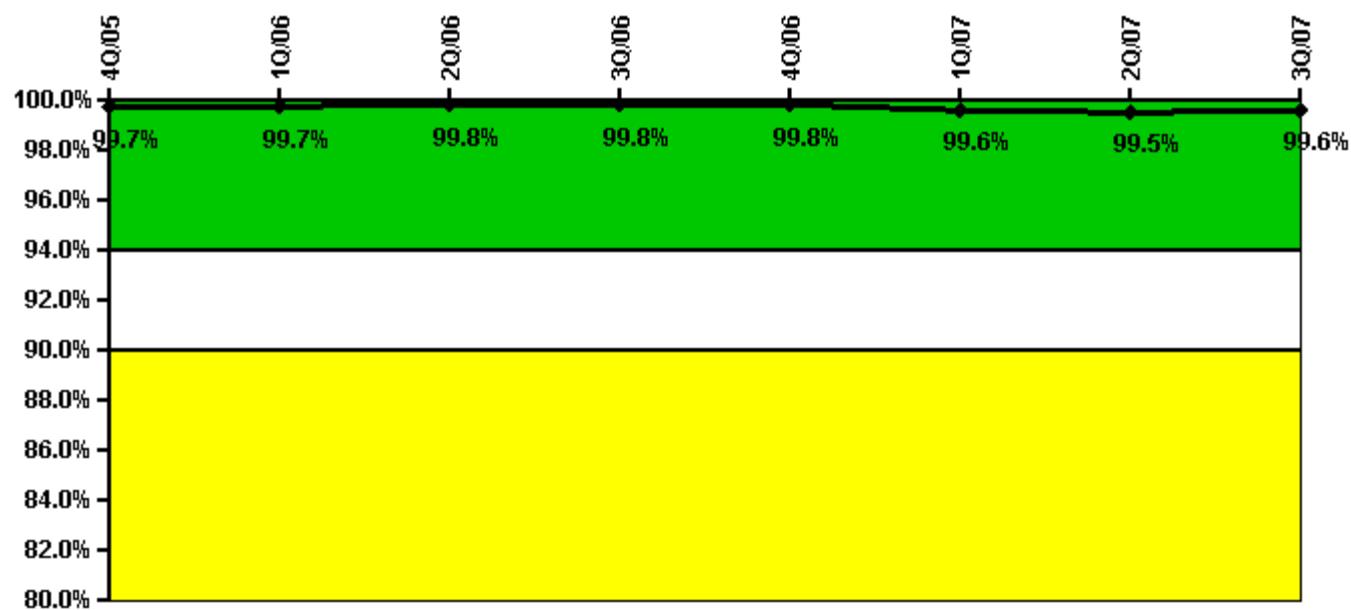
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Participating Key personnel	59.0	56.0	68.0	66.0	68.0	64.0	66.0	77.0
Total Key personnel	59.0	56.0	68.0	66.0	68.0	64.0	66.0	89.0
Indicator value	100.0%	86.5%						

Licensee Comments: none

Alert & Notification System



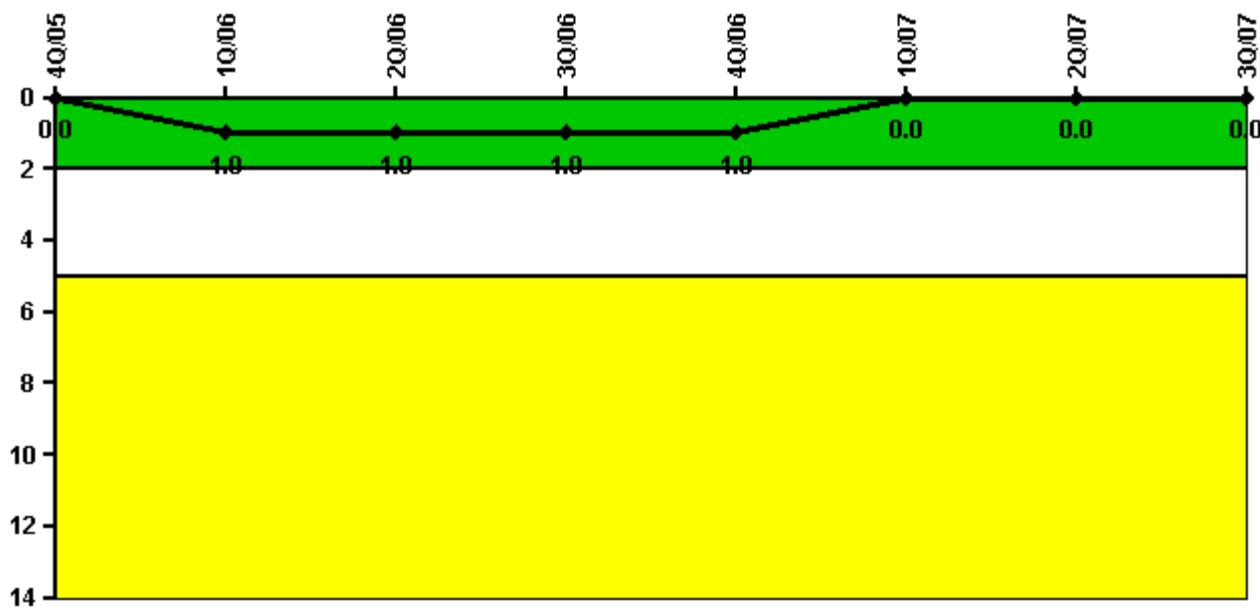
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful siren-tests	946	947	948	946	948	940	944	947
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.7%	99.7%	99.8%	99.8%	99.8%	99.6%	99.5%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



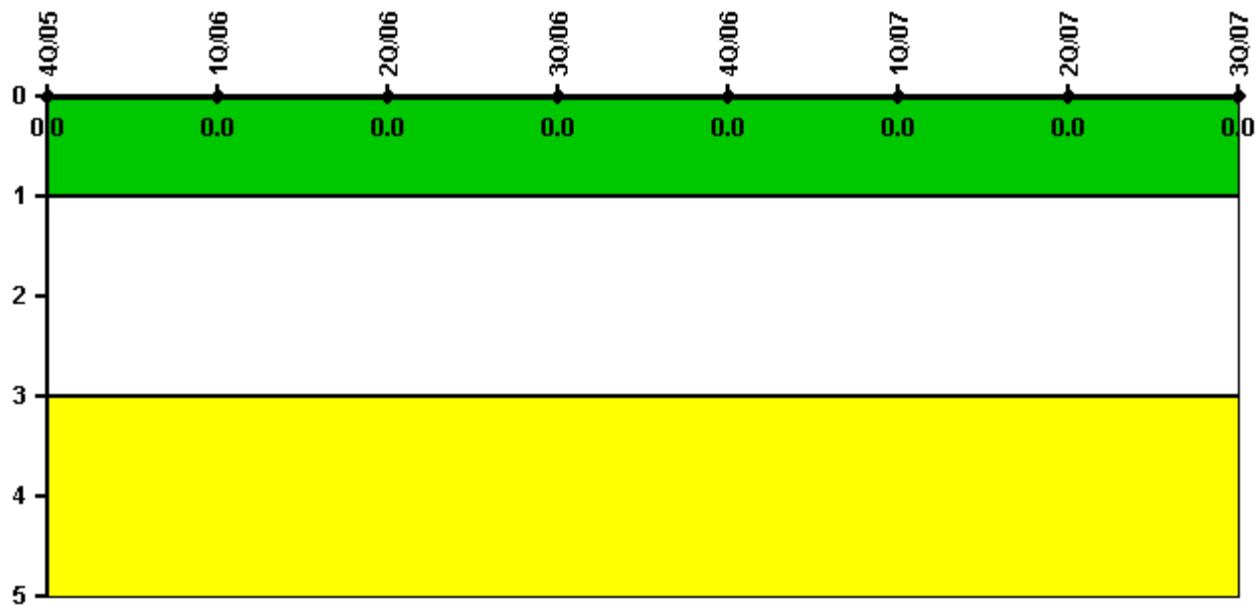
Thresholds: White > 2.0 Yellow > 5.0

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	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	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

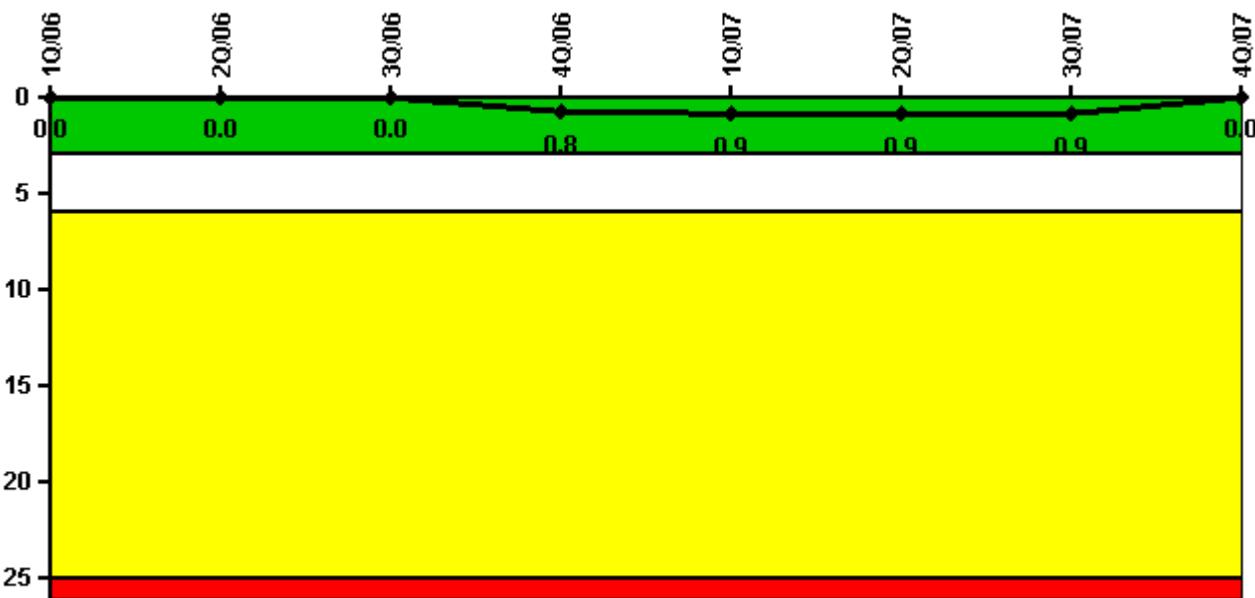
[Physical Protection](#) information not publicly available.

Calvert Cliffs 2

4Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



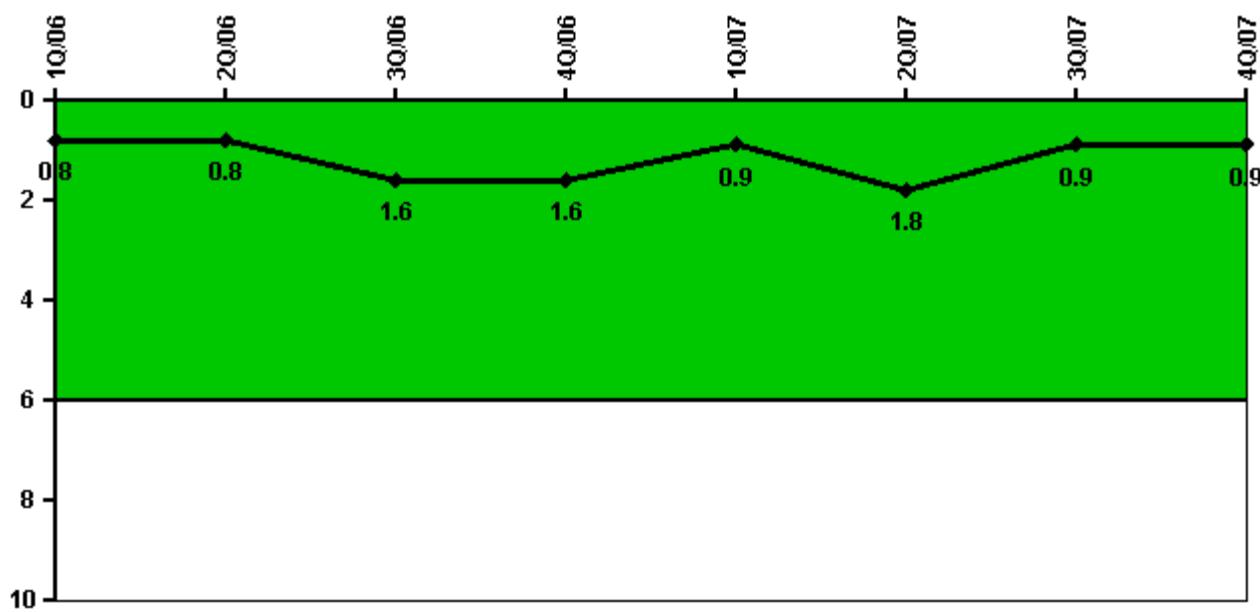
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	0
Critical hours	2160.0	2183.0	2208.0	2090.8	1341.5	2162.4	2208.0	2209.0
Indicator value	0	0	0	0.8	0.9	0.9	0.9	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



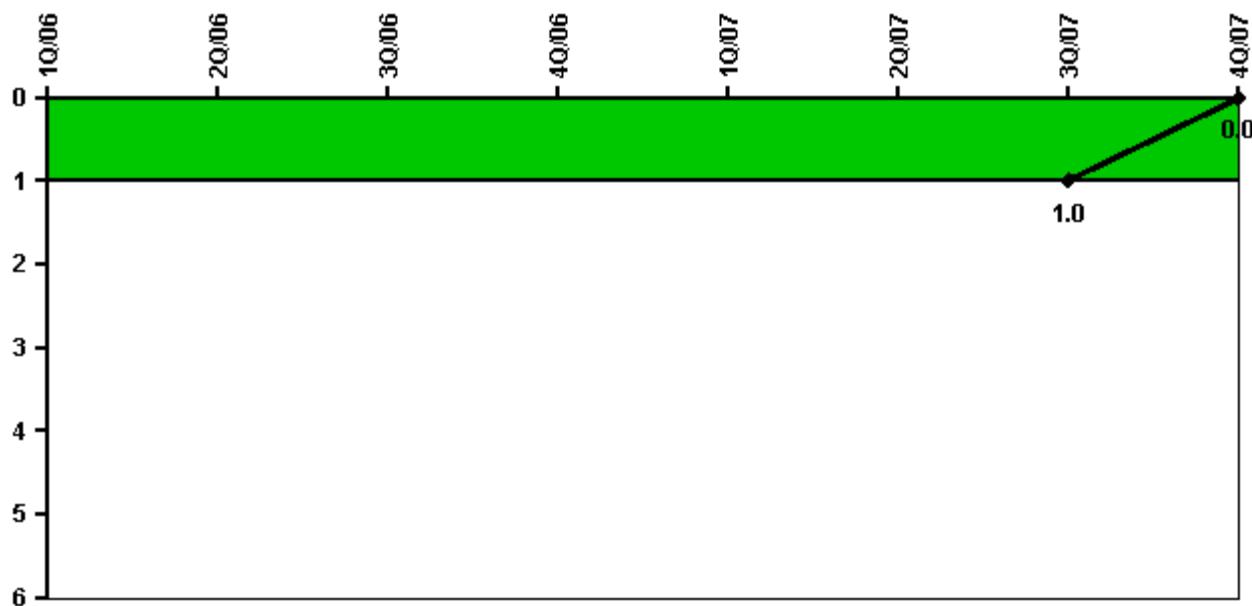
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned power changes	1.0	0	1.0	0	0	1.0	0	0
Critical hours	2160.0	2183.0	2208.0	2090.8	1341.5	2162.4	2208.0	2209.0
Indicator value	0.8	0.8	1.6	1.6	0.9	1.8	0.9	0.9

Licensee Comments: none

Unplanned Scrams with Complications



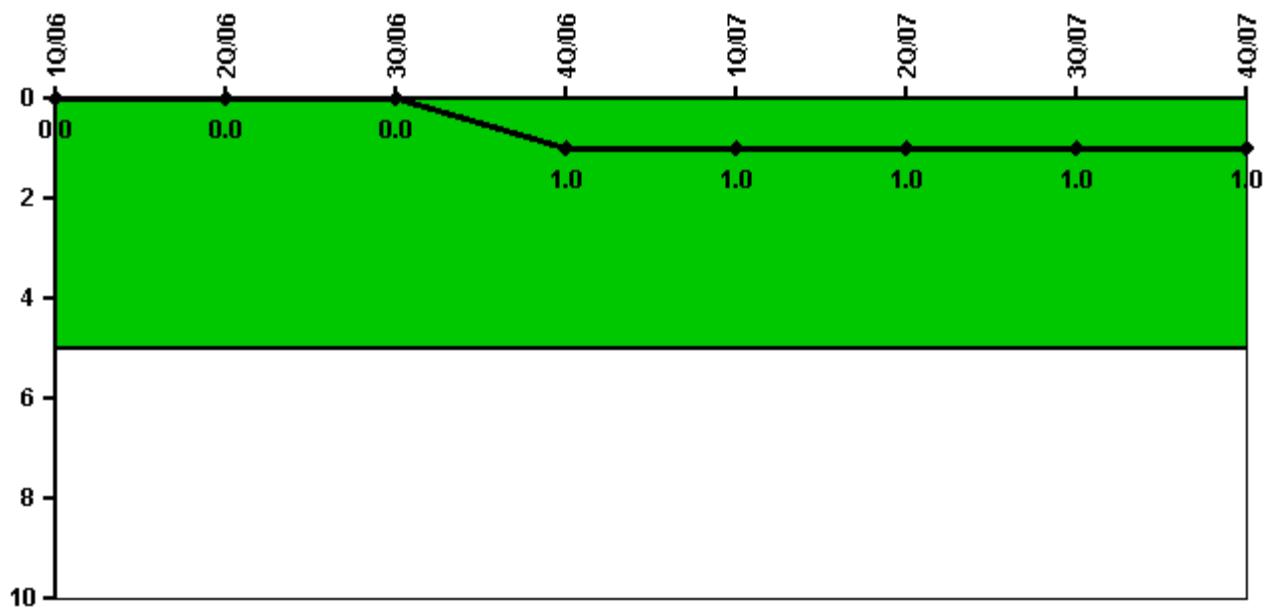
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Scrams with complications				1.0	0	0	0	0
Indicator value							1.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

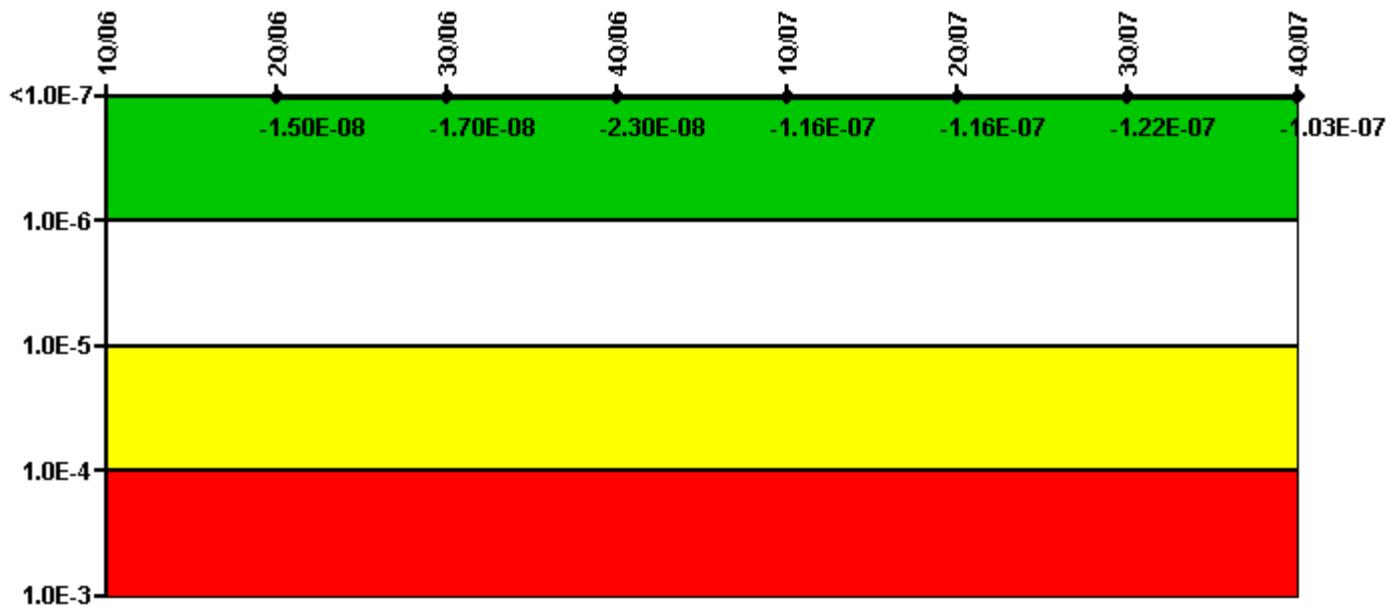
Notes

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	0	0	0	1	0	0	0	1
Indicator value	0	0	0	1	1	1	1	1

Licensee Comments:

4Q/07: LER 2007-002.

Mitigating Systems Performance Index, Emergency AC Power System



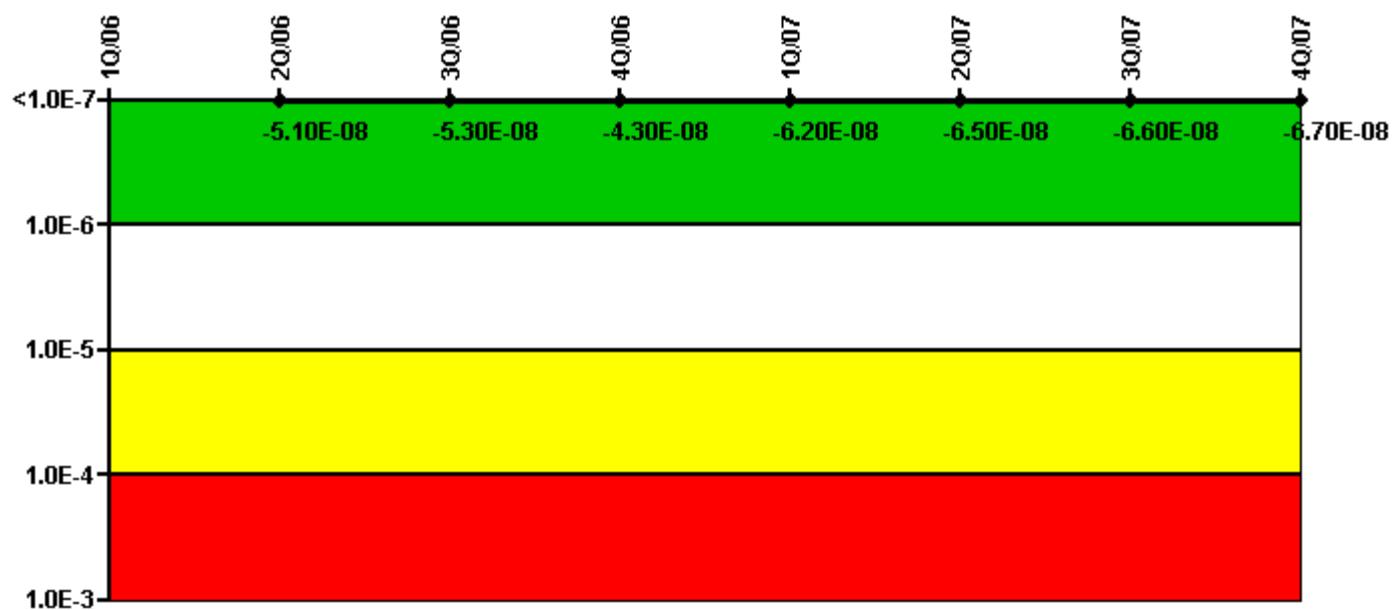
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)		3.10E-08	2.90E-08	1.50E-08	1.40E-08	1.40E-08	7.80E-09	2.70E-08
URI (Δ CDF)		-4.60E-08	-4.60E-08	-3.80E-08	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07
PLE		NO						
Indicator value		-1.50E-08	-1.70E-08	-2.30E-08	-1.16E-07	-1.16E-07	-1.22E-07	-1.03E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



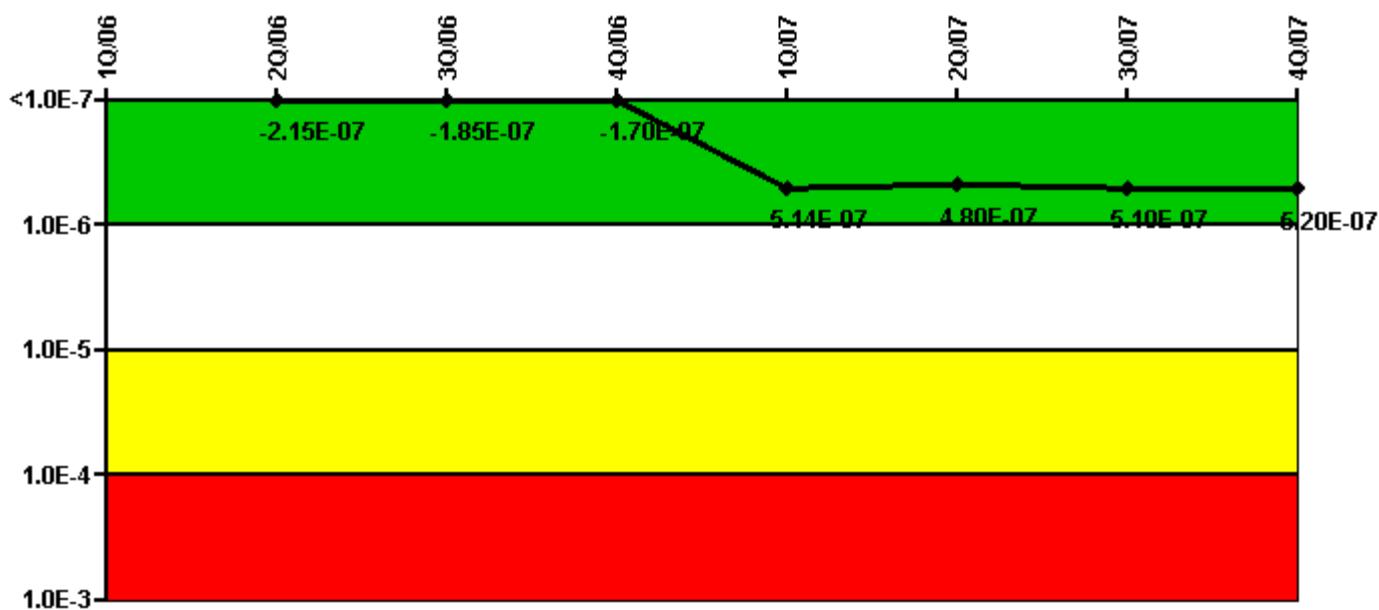
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)		2.80E-08	2.60E-08	3.90E-08	3.00E-08	2.60E-08	2.70E-08	2.80E-08
URI (Δ CDF)		-7.90E-08	-7.90E-08	-8.20E-08	-9.20E-08	-9.10E-08	-9.30E-08	-9.50E-08
PLE		NO						
Indicator value		-5.10E-08	-5.30E-08	-4.30E-08	-6.20E-08	-6.50E-08	-6.60E-08	-6.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



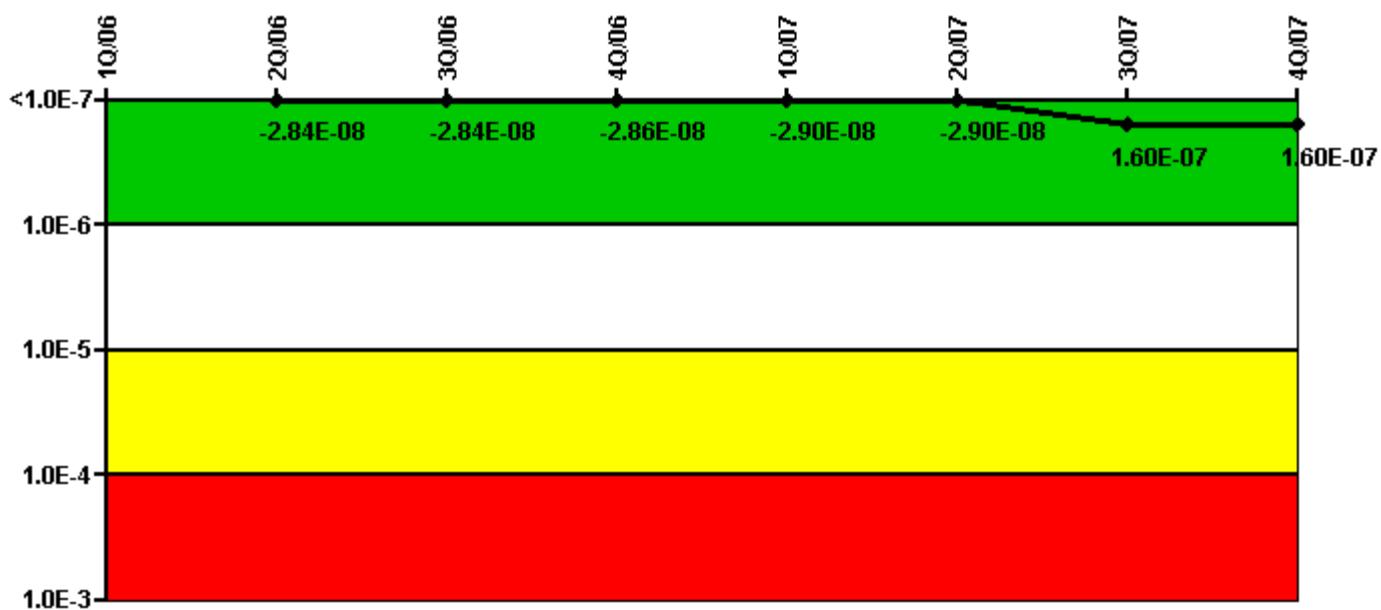
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (Δ CDF)		2.50E-08	4.50E-08	6.00E-08	7.40E-08	1.00E-07	1.70E-07	1.70E-07
URI (Δ CDF)		-2.40E-07	-2.30E-07	-2.30E-07	4.40E-07	3.80E-07	3.40E-07	3.50E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-2.15E-07	-1.85E-07	-1.70E-07	5.14E-07	4.80E-07	5.10E-07	5.20E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



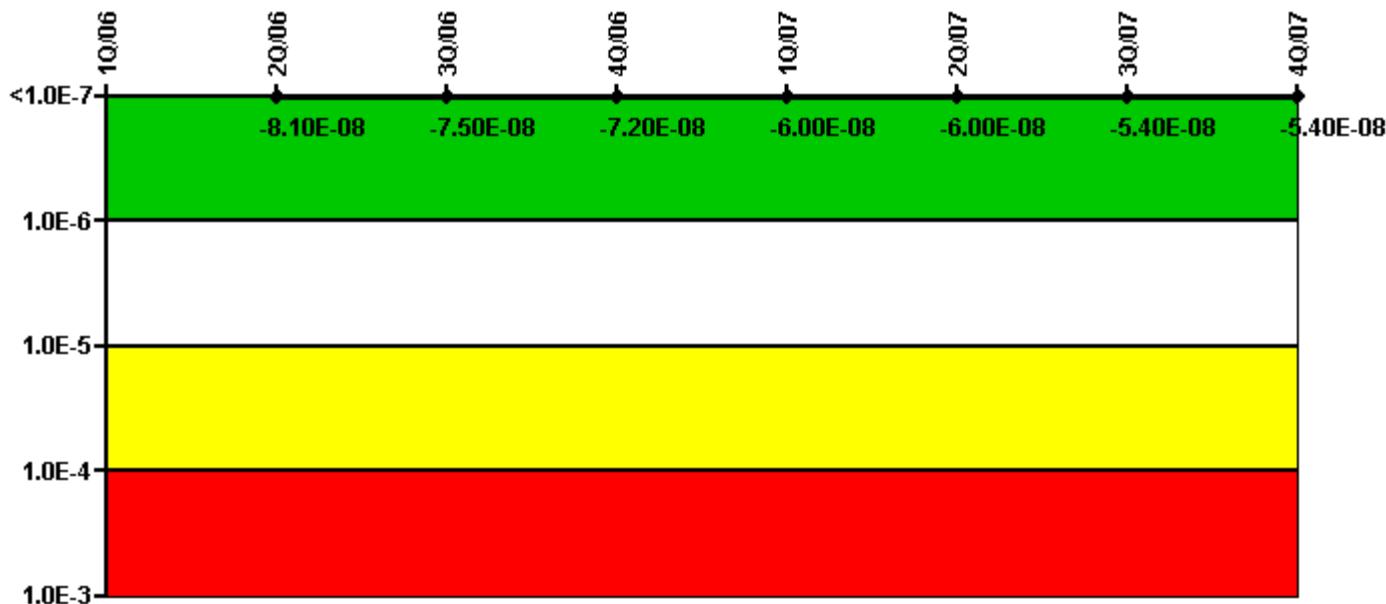
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (Δ CDF)		-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	1.10E-07	1.10E-07
URI (Δ CDF)		-4.40E-09	-4.40E-09	-4.60E-09	-5.00E-09	-5.00E-09	5.00E-08	5.00E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-2.84E-08	-2.84E-08	-2.86E-08	-2.90E-08	-2.90E-08	1.60E-07	1.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



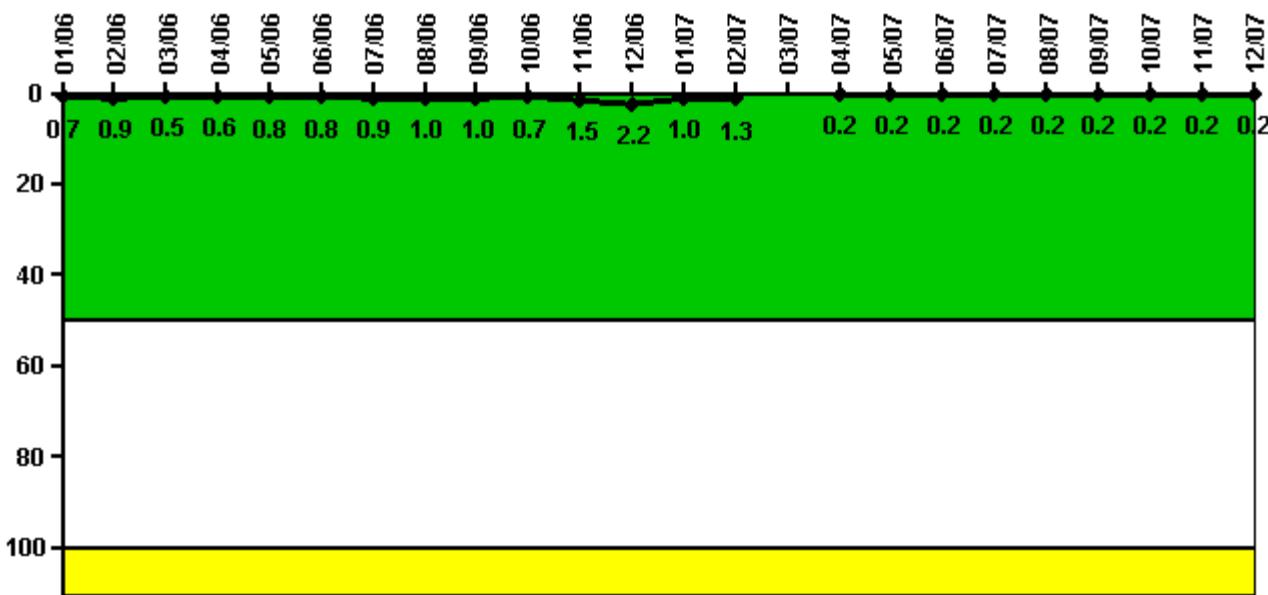
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)		1.00E-08	1.50E-08	1.80E-08	3.00E-08	3.00E-08	3.60E-08	3.60E-08
URI (Δ CDF)		-9.10E-08	-9.00E-08	-9.00E-08	-9.00E-08	-9.00E-08	-9.00E-08	-9.00E-08
PLE		NO						
Indicator value		-8.10E-08	-7.50E-08	-7.20E-08	-6.00E-08	-6.00E-08	-5.40E-08	-5.40E-08

Licensee Comments: none

Reactor Coolant System Activity



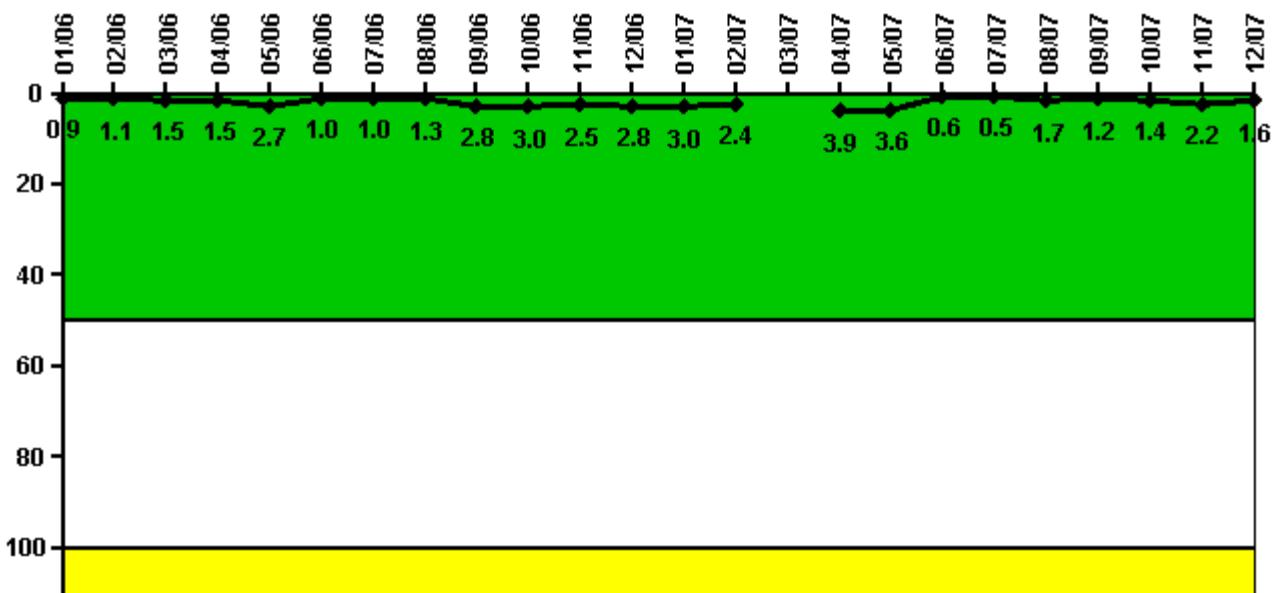
Thresholds: White > 50.0 Yellow > 100.0

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	0.006580	0.008720	0.005310	0.005820	0.007540	0.008390	0.009170	0.009820	0.009930	0.007360	0.014800	0.022400
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	0.7	0.9	0.5	0.6	0.8	0.8	0.9	1.0	1.0	0.7	1.5	2.2
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	0.009950	0.013400	N/A	0.001730	0.001650	0.001770	0.001940	0.002000	0.002210	0.002240	0.002230	0.002350
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	1.0	1.3	N/A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



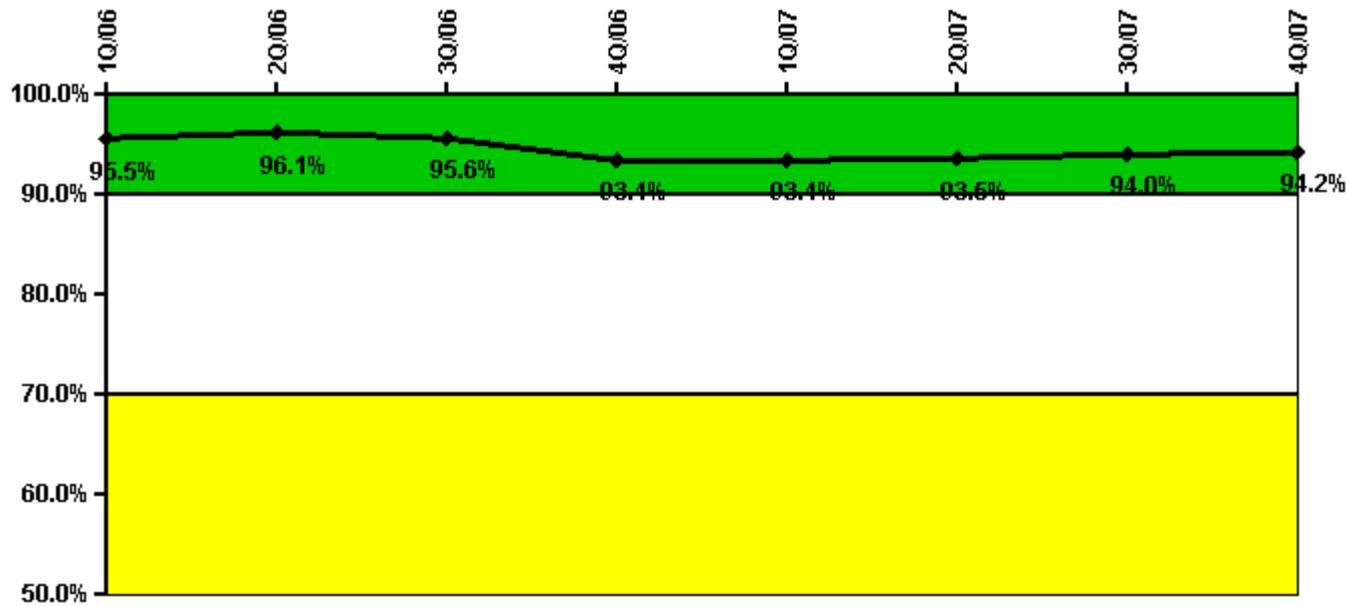
Thresholds: White > 50.0 Yellow > 100.0

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	0.086	0.105	0.153	0.150	0.273	0.097	0.100	0.130	0.283	0.299	0.250	0.281
Indicator value	0.9	1.1	1.5	1.5	2.7	1.0	1.0	1.3	2.8	3.0	2.5	2.8
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	0.297	0.241	N/A	0.390	0.360	0.060	0.050	0.170	0.120	0.140	0.218	0.160
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	3.0	2.4	N/A	3.9	3.6	0.6	0.5	1.7	1.2	1.4	2.2	1.6

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

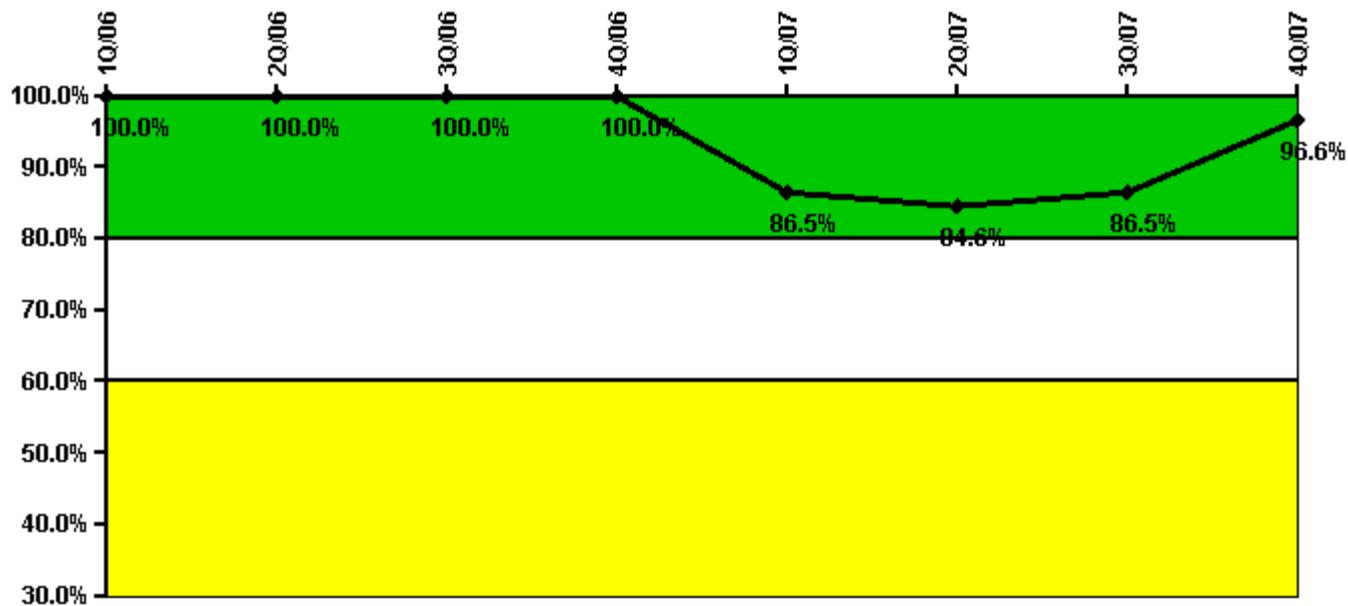
Notes

Drill/Exercise Performance	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful opportunities	4.0	58.0	56.0	78.0	3.0	21.0	36.0	69.0
Total opportunities	4.0	59.0	60.0	90.0	3.0	22.0	36.0	71.0
Indicator value	95.5%	96.1%	95.6%	93.4%	93.4%	93.5%	94.0%	94.2%

Licensee Comments:

1Q/07: EP reported 1 success out of 2 opportunities in January, whereas there were 2 successes out of 3.

ERO Drill Participation



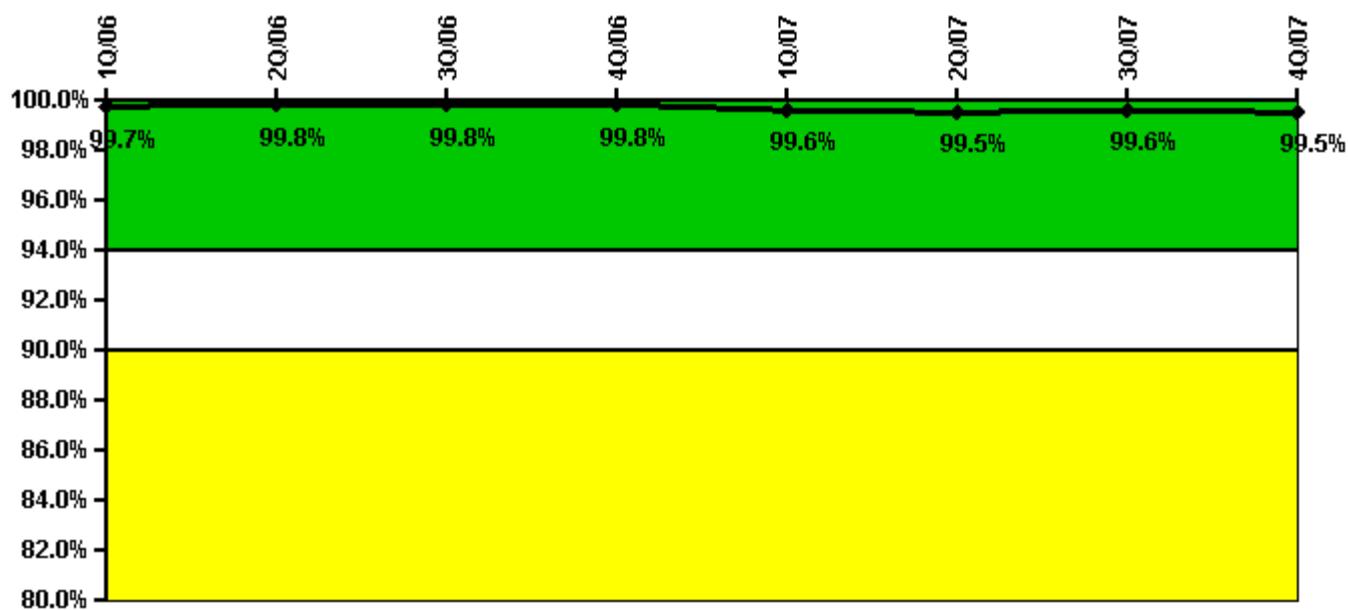
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Participating Key personnel	56.0	68.0	66.0	68.0	77.0	77.0	77.0	85.0
Total Key personnel	56.0	68.0	66.0	68.0	89.0	91.0	89.0	88.0
Indicator value	100.0%	100.0%	100.0%	100.0%	86.5%	84.6%	86.5%	96.6%

Licensee Comments: none

Alert & Notification System



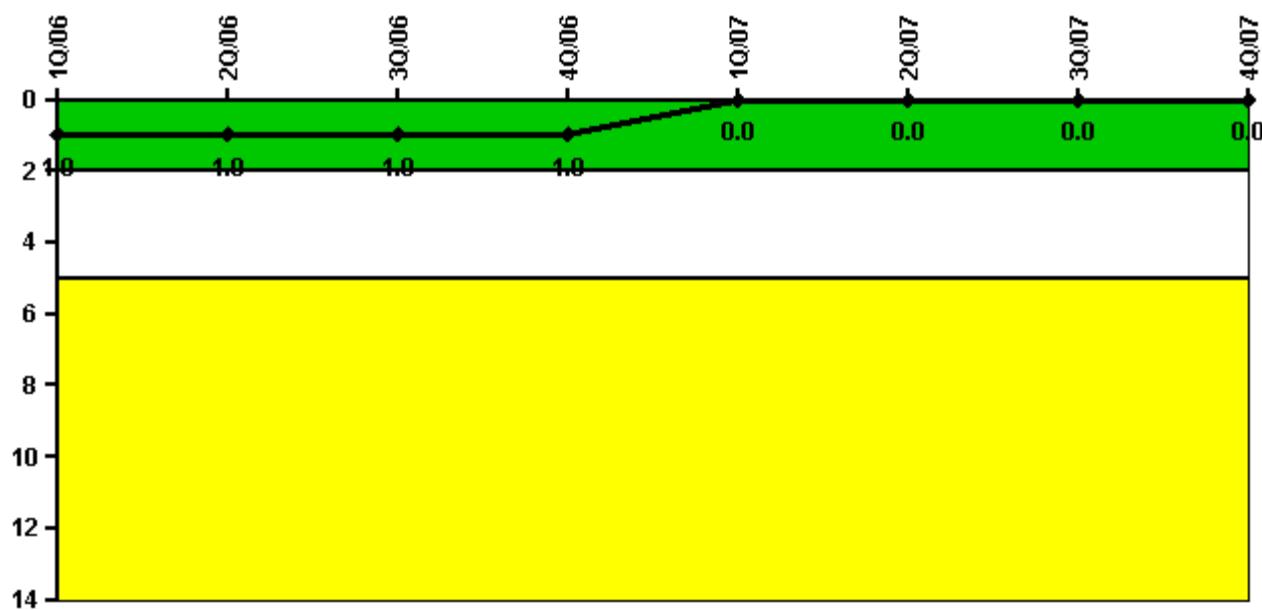
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful siren-tests	947	948	946	948	940	944	947	1019
Total sirens-tests	949	949	949	949	949	949	949	1022
Indicator value	99.7%	99.8%	99.8%	99.8%	99.6%	99.5%	99.6%	99.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness



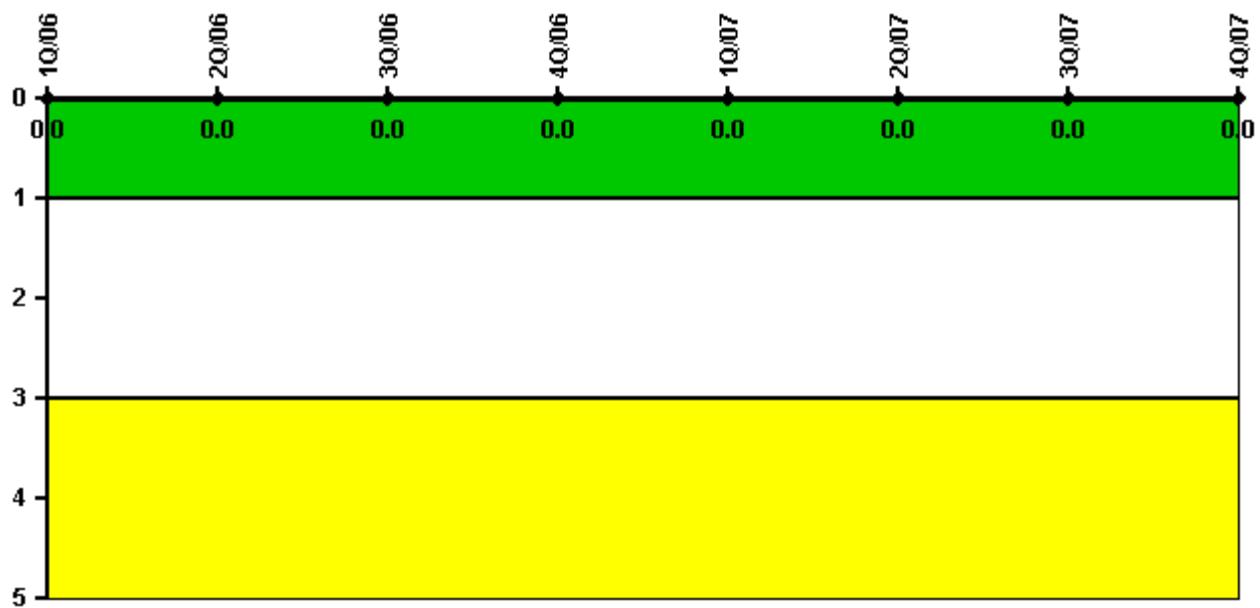
Thresholds: White > 2.0 Yellow > 5.0

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	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	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.

Calvert Cliffs 2

1Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



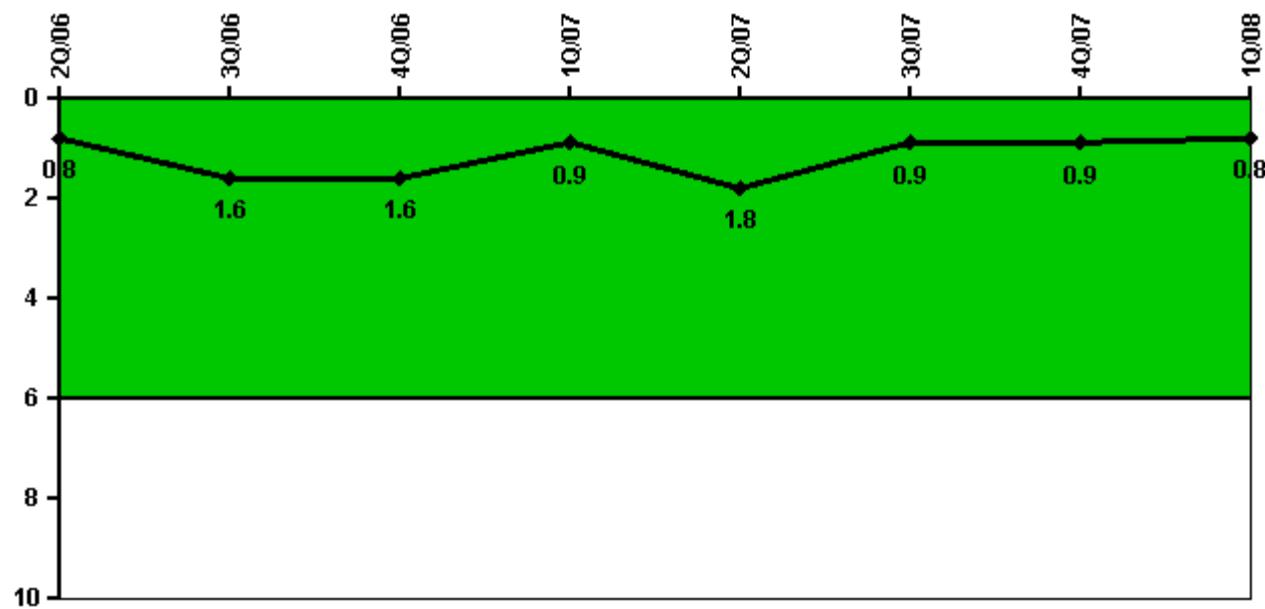
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	0	0
Critical hours	2183.0	2208.0	2090.8	1341.5	2162.4	2208.0	2209.0	2183.0
Indicator value	0	0	0.8	0.9	0.9	0.9	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



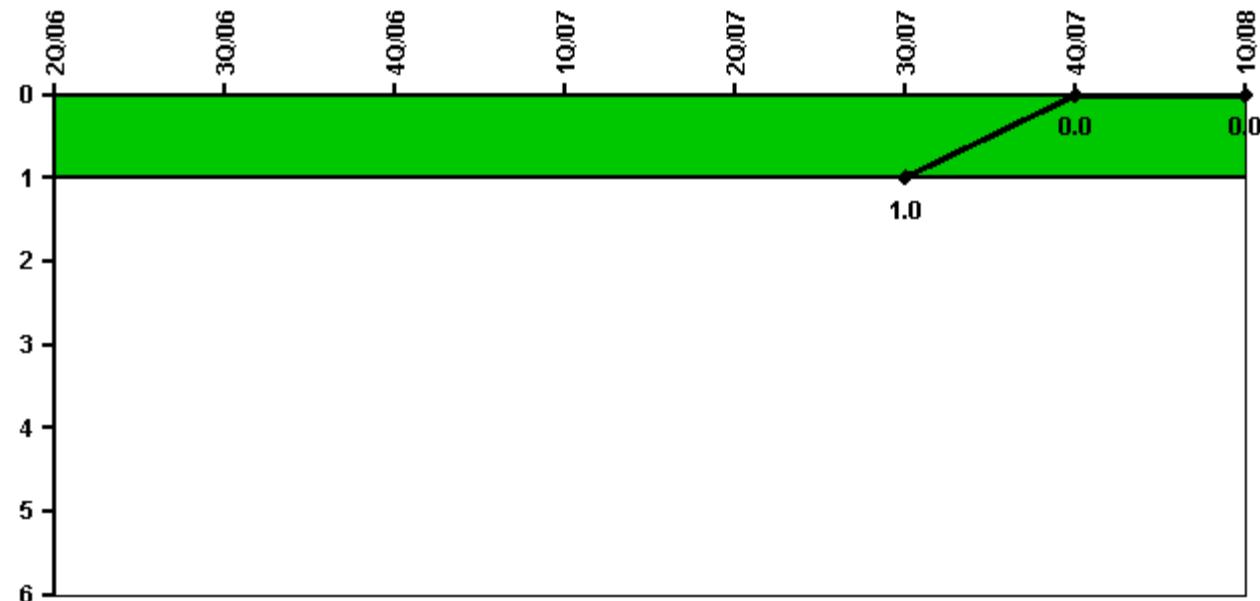
Thresholds: White > 6.0

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	1.0	0	0	1.0	0	0	0
Critical hours	2183.0	2208.0	2090.8	1341.5	2162.4	2208.0	2209.0	2183.0
Indicator value	0.8	1.6	1.6	0.9	-1.8	0.9	0.9	0.8

Licensee Comments: none

Unplanned Scrams with Complications



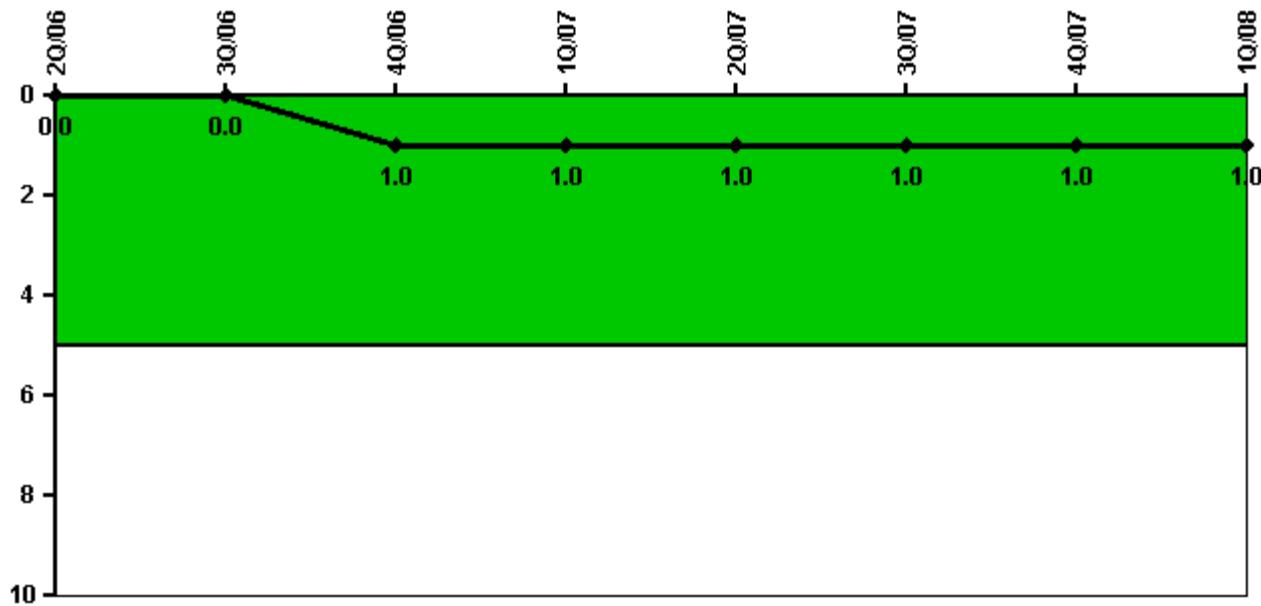
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Scrams with complications				1.0	0	0	0	0
Indicator value							1.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



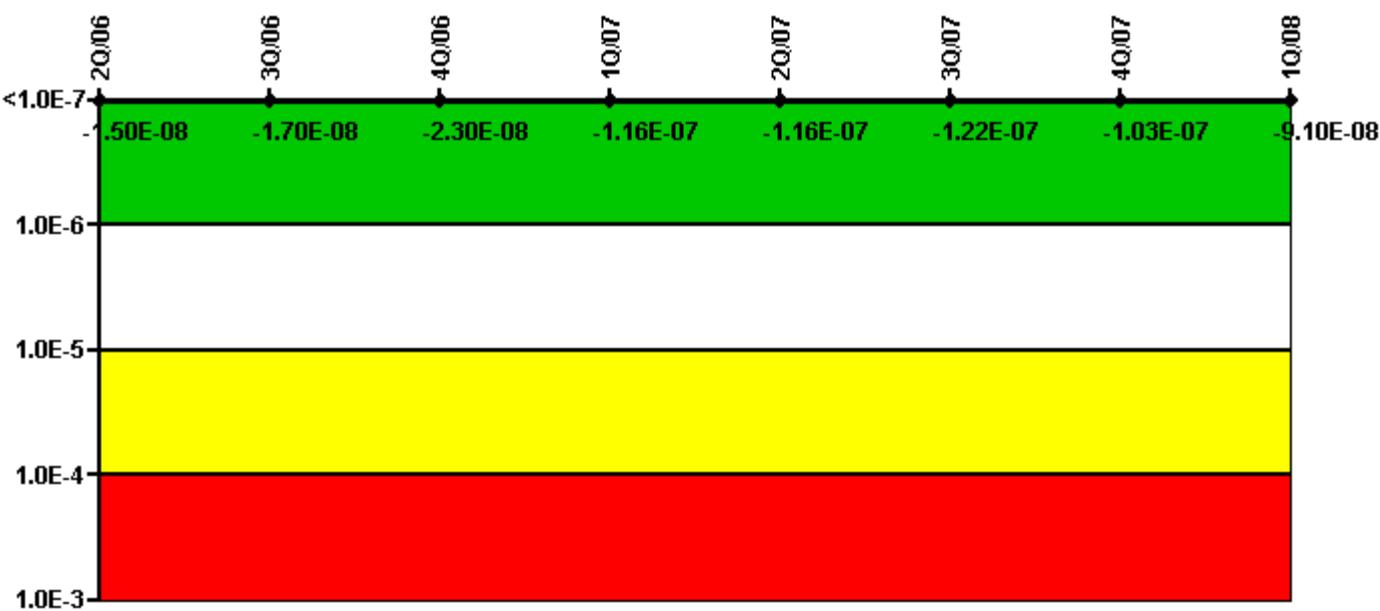
Thresholds: White > 5.0

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	0	0	1	0	0	0	1	0
Indicator value	0	0	1	1	1	1	1	1

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



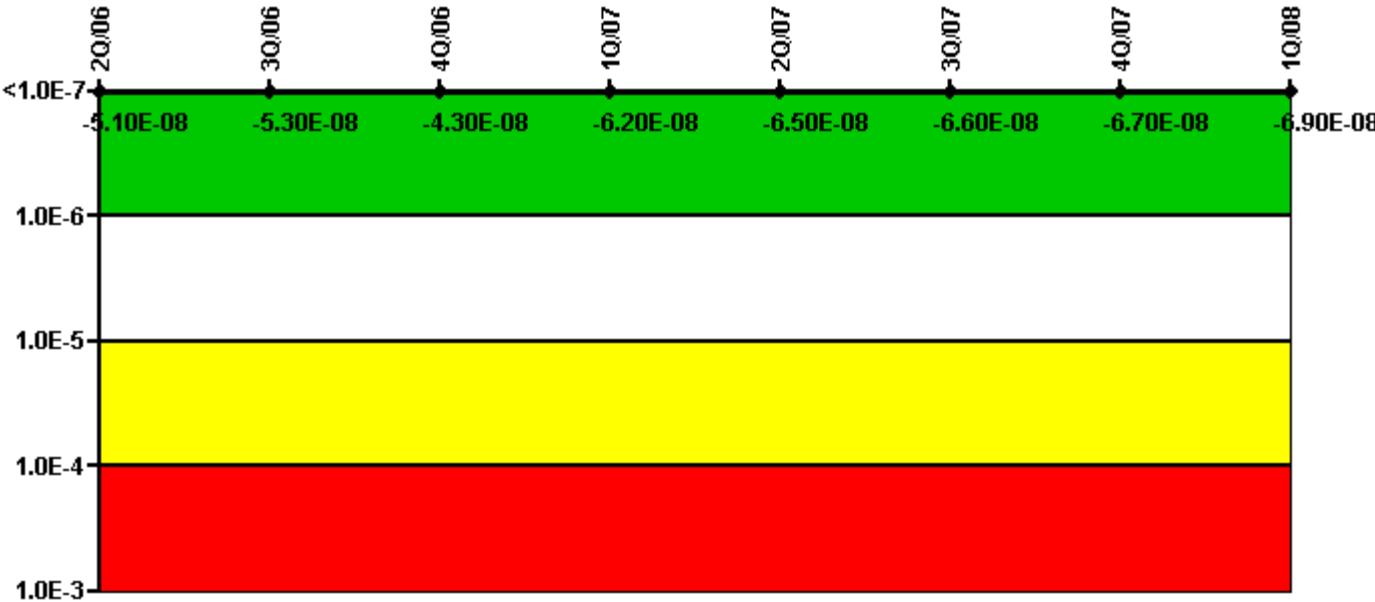
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (Δ CDF)	3.10E-08	2.90E-08	1.50E-08	1.40E-08	1.40E-08	7.80E-09	2.70E-08	2.90E-08
URI (Δ CDF)	-4.60E-08	-4.60E-08	-3.80E-08	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.20E-07
PLE	NO							
Indicator value	-1.50E-08	-1.70E-08	-2.30E-08	-1.16E-07	-1.16E-07	-1.22E-07	-1.03E-07	-9.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



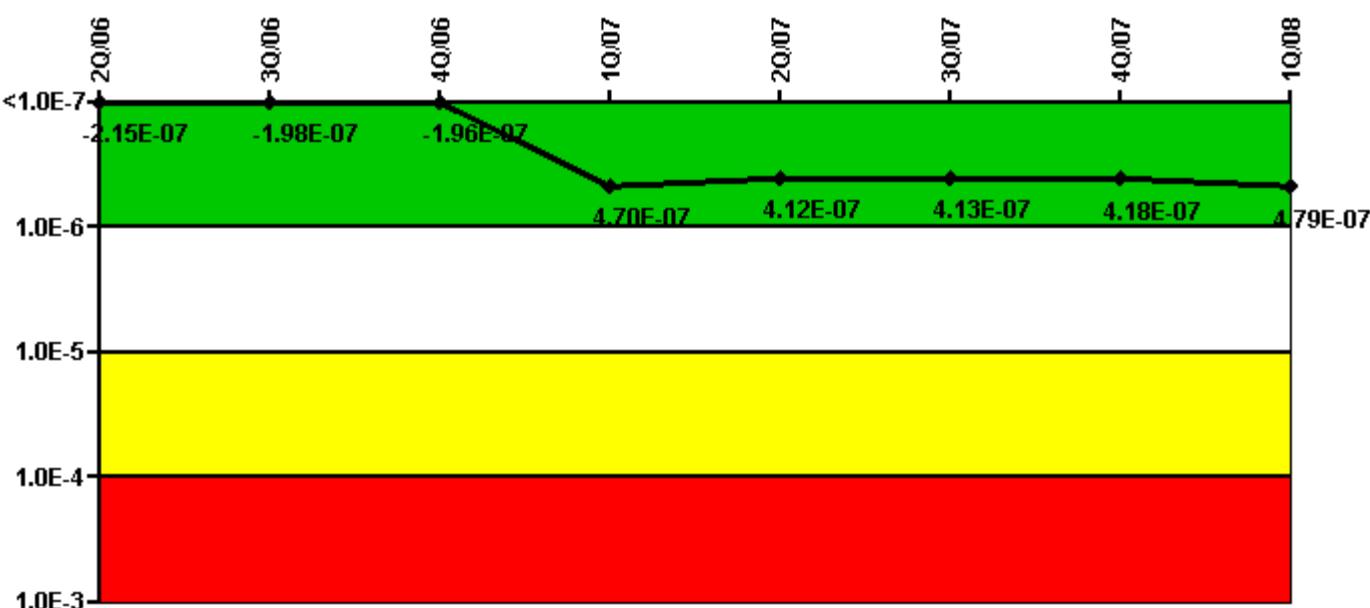
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (Δ CDF)	2.80E-08	2.60E-08	3.90E-08	3.00E-08	2.60E-08	2.70E-08	2.80E-08	2.00E-08
URI (Δ CDF)	-7.90E-08	-7.90E-08	-8.20E-08	-9.20E-08	-9.10E-08	-9.30E-08	-9.50E-08	-8.90E-08
PLE	NO							
Indicator value	-5.10E-08	-5.30E-08	-4.30E-08	-6.20E-08	-6.50E-08	-6.60E-08	-6.70E-08	-6.90E-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)	2.50E-08	3.20E-08	3.40E-08	3.00E-08	3.20E-08	7.30E-08	6.80E-08	6.90E-08
URI (Δ CDF)	-2.40E-07	-2.30E-07	-2.30E-07	4.40E-07	3.80E-07	3.40E-07	3.50E-07	4.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.15E-07	-1.98E-07	-1.96E-07	4.70E-07	4.12E-07	4.13E-07	4.18E-07	4.79E-07

Licensee Comments:

4Q/07: Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system.

3Q/07: Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system.

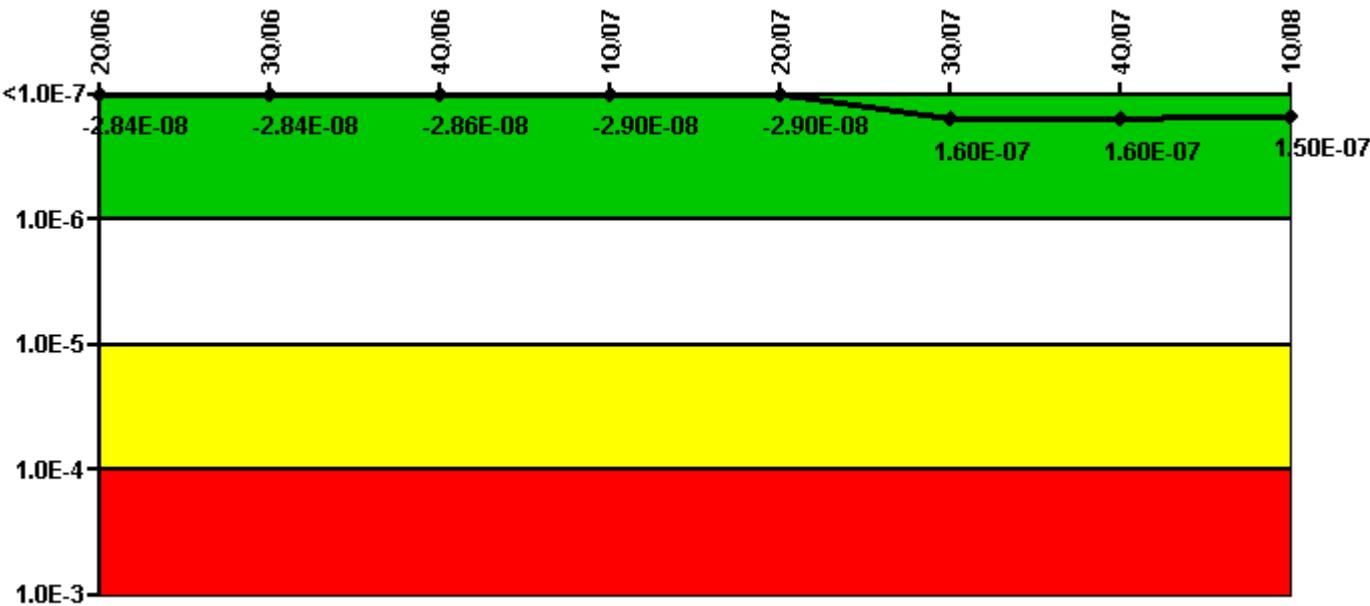
2Q/07: Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system.

1Q/07: Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system.

4Q/06: Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system.

3Q/06: Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system.

Mitigating Systems Performance Index, Residual Heat Removal System



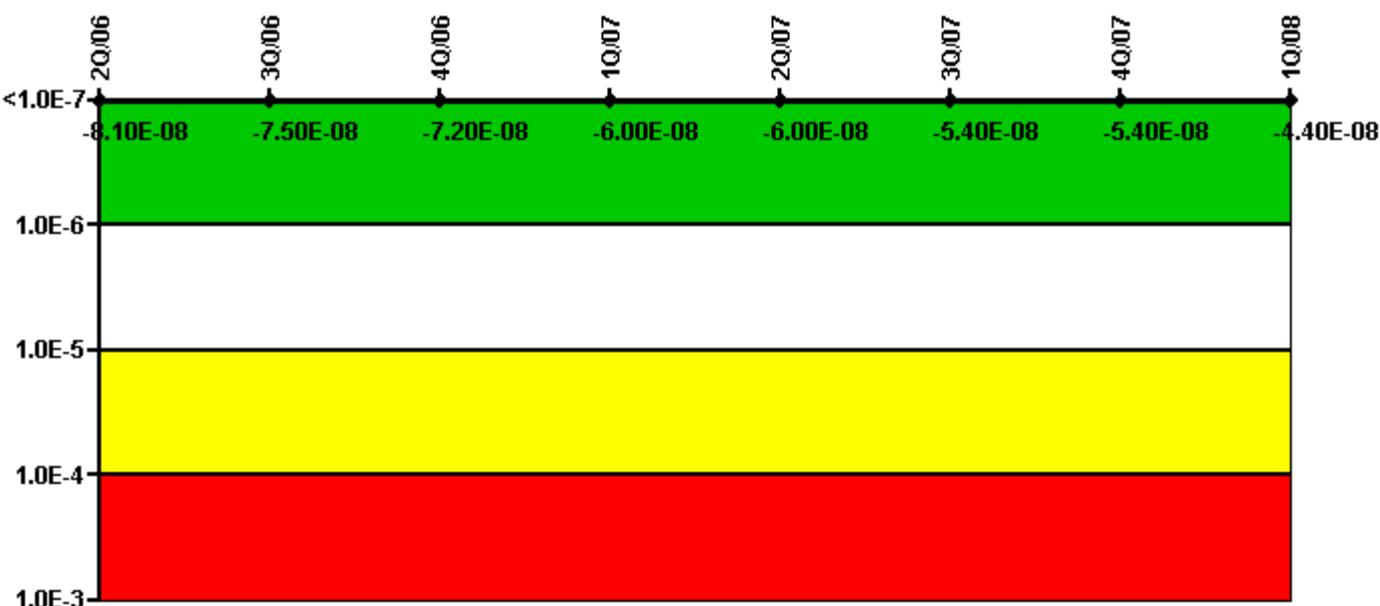
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (ACDF)	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	1.10E-07	1.10E-07	1.00E-07
URI (ACDF)	-4.40E-09	-4.40E-09	-4.60E-09	-5.00E-09	-5.00E-09	5.00E-08	5.00E-08	5.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.84E-08	-2.84E-08	-2.86E-08	-2.90E-08	-2.90E-08	1.60E-07	1.60E-07	1.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



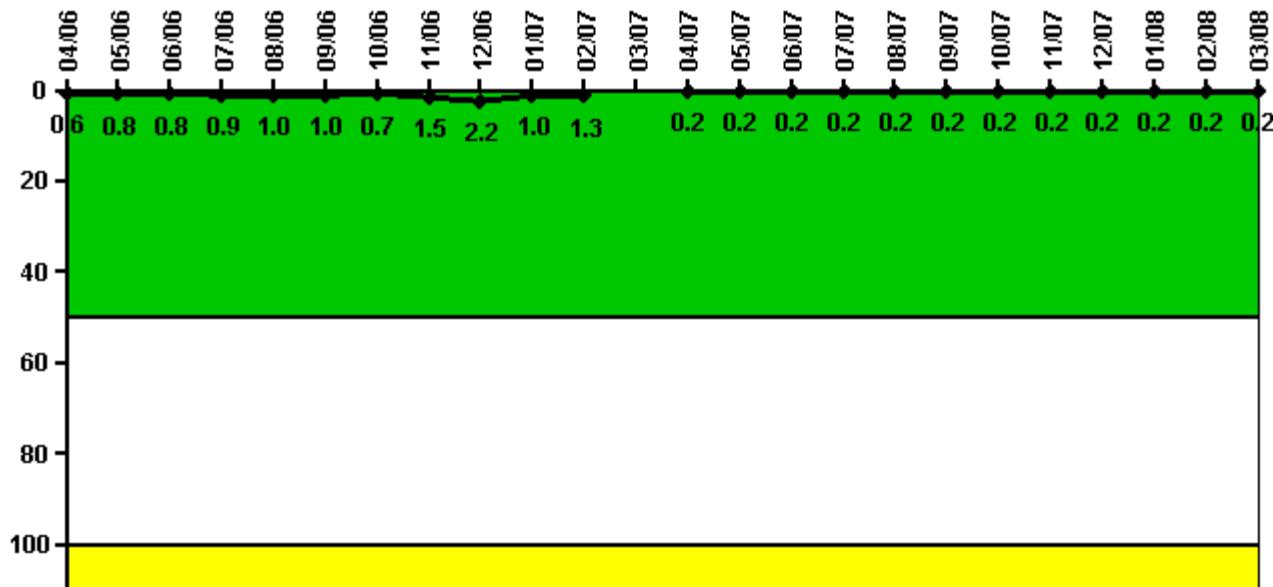
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.00E-08	1.50E-08	1.80E-08	3.00E-08	3.00E-08	3.60E-08	3.60E-08	4.70E-08
URI (Δ CDF)	-9.10E-08	-9.00E-08	-9.00E-08	-9.00E-08	-9.00E-08	-9.00E-08	-9.00E-08	-9.10E-08
PLE	NO							
Indicator value	-8.10E-08	-7.50E-08	-7.20E-08	-6.00E-08	-6.00E-08	-5.40E-08	-5.40E-08	-4.40E-08

Licensee Comments: none

Reactor Coolant System Activity



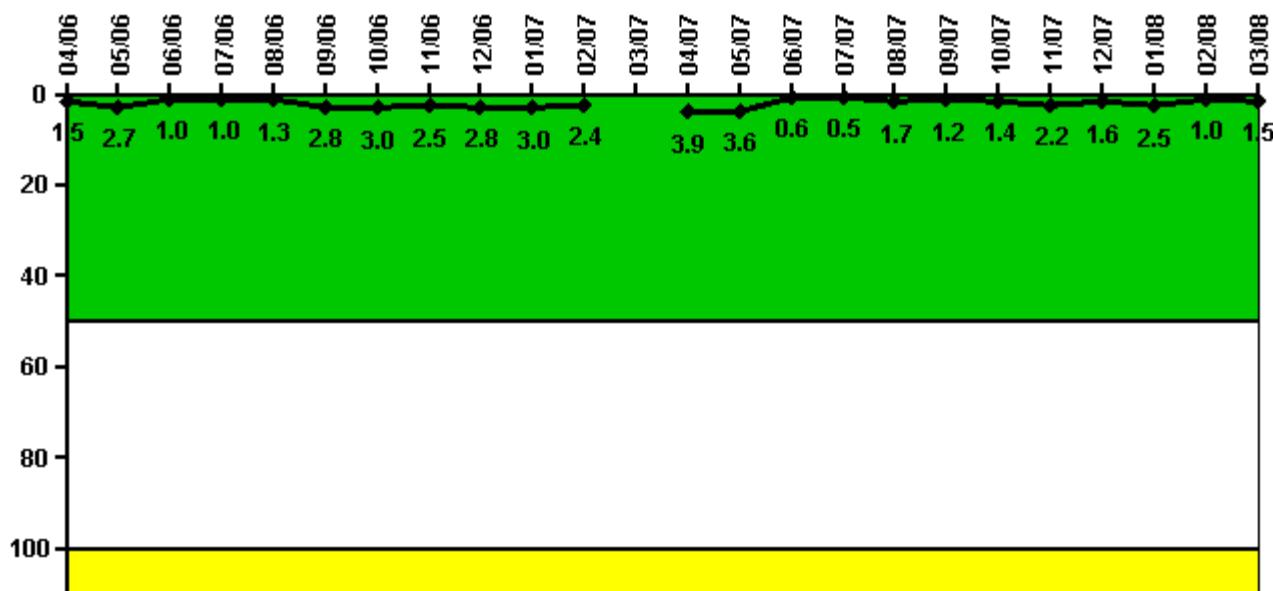
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum activity	0.005820	0.007540	0.008390	0.009170	0.009820	0.009930	0.007360	0.014800	0.022400	0.009950	0.013400	N/A
Indicator value	0.6	0.8	0.8	0.9	1.0	1.0	0.7	1.5	2.2	1.0	1.3	N/A
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	0.001730	0.001650	0.001770	0.001940	0.002000	0.002210	0.002240	0.002230	0.002350	0.001850	0.002210	0.002370
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



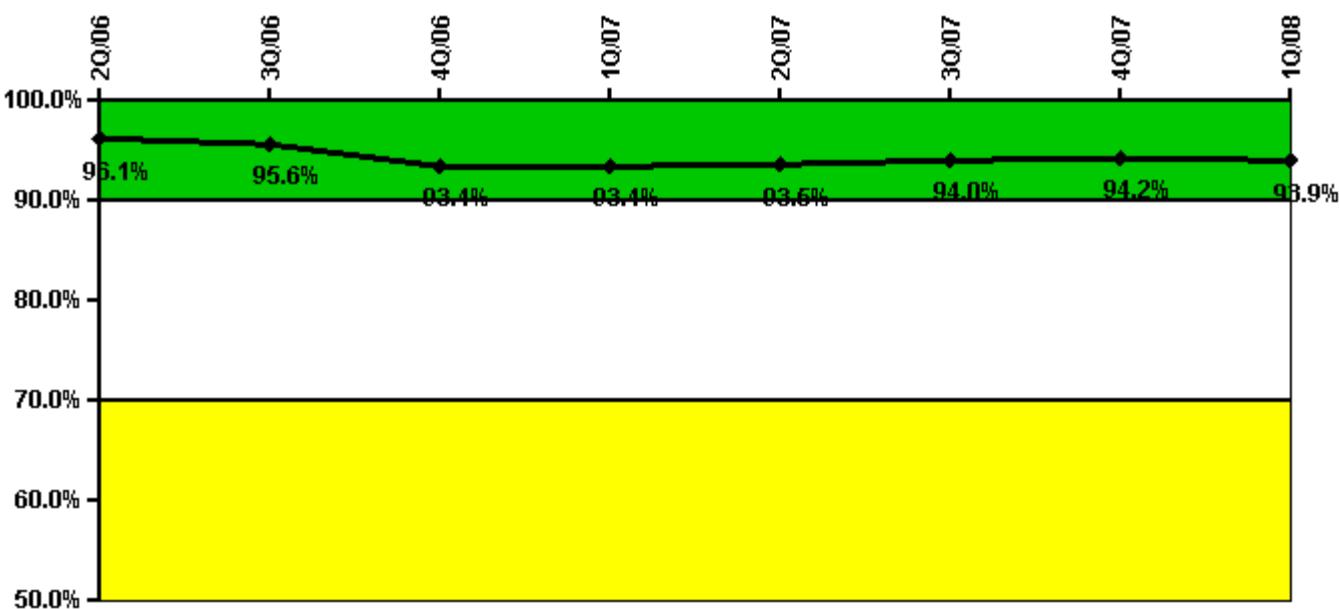
Thresholds: White > 50.0 Yellow > 100.0

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	0.150	0.273	0.097	0.100	0.130	0.283	0.299	0.250	0.281	0.297	0.241	N/A
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	1.5	2.7	1.0	1.0	1.3	2.8	3.0	2.5	2.8	3.0	2.4	N/A
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	0.390	0.360	0.060	0.050	0.170	0.120	0.140	0.218	0.160	0.250	0.100	0.150
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	3.9	3.6	0.6	0.5	1.7	1.2	1.4	2.2	1.6	2.5	1.0	1.5

Licensee Comments: none

Drill/Exercise Performance



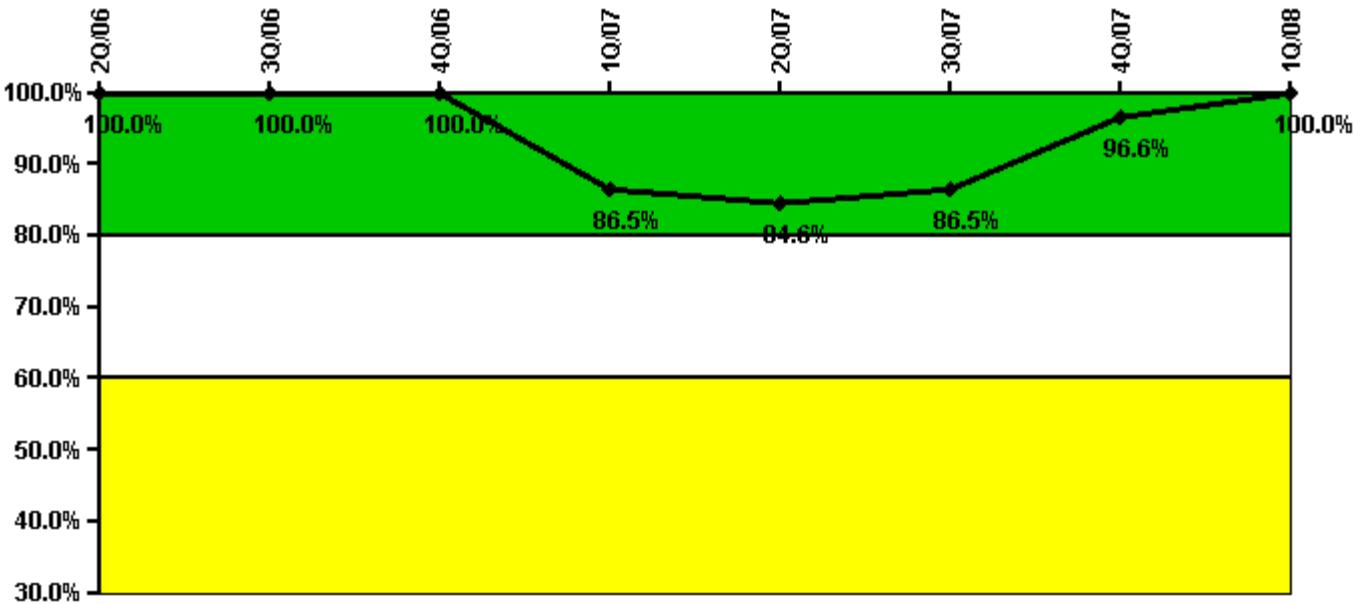
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful opportunities	58.0	56.0	78.0	3.0	21.0	36.0	69.0	4.0
Total opportunities	59.0	60.0	90.0	3.0	22.0	36.0	71.0	5.0
Indicator value	96.1%	95.6%	93.4%	93.4%	93.5%	94.0%	94.2%	93.9%

Licensee Comments: none

ERO Drill Participation



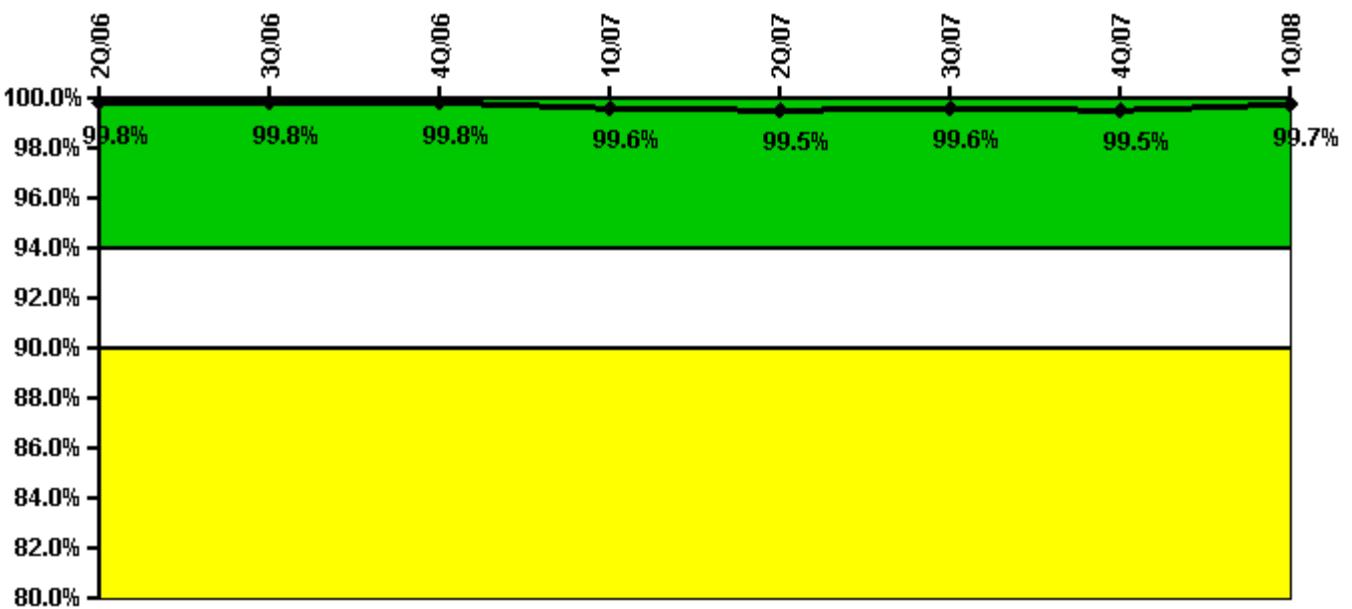
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Participating Key personnel	68.0	66.0	68.0	77.0	77.0	77.0	85.0	83.0
Total Key personnel	68.0	66.0	68.0	89.0	91.0	89.0	88.0	83.0
Indicator value	100.0%	100.0%	100.0%	86.5%	84.6%	86.5%	96.6%	100.0%

Licensee Comments: none

Alert & Notification System



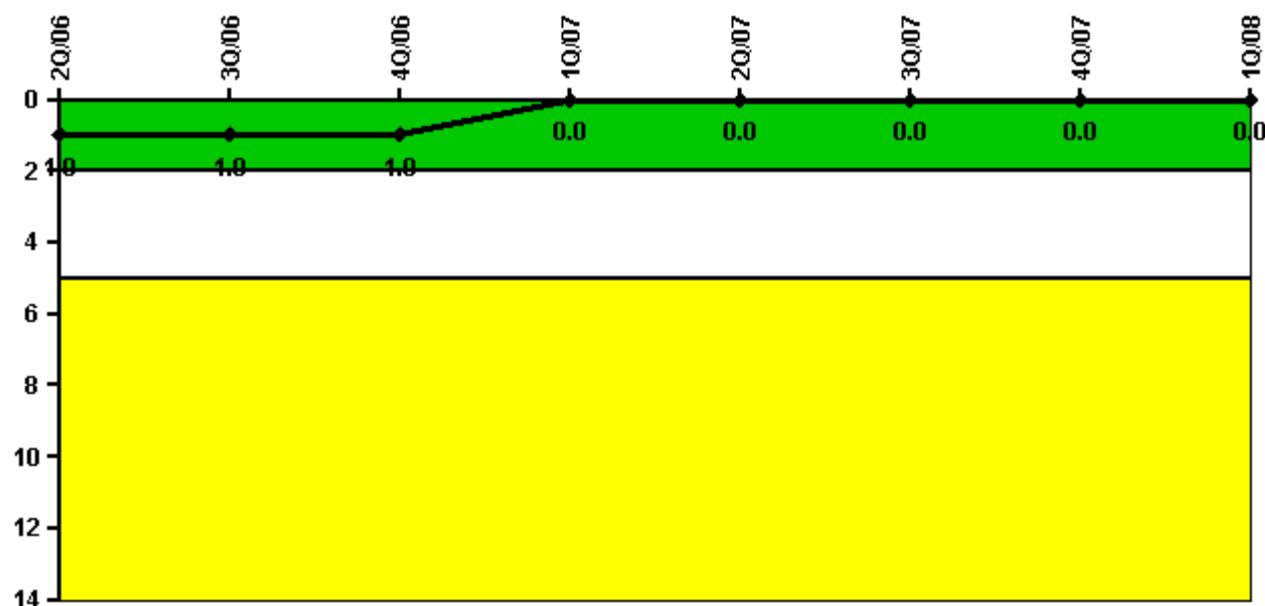
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful siren-tests	948	946	948	940	944	947	1019	947
Total sirens-tests	949	949	949	949	949	949	1022	949
Indicator value	99.8%	99.8%	99.8%	99.6%	99.5%	99.6%	99.5%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



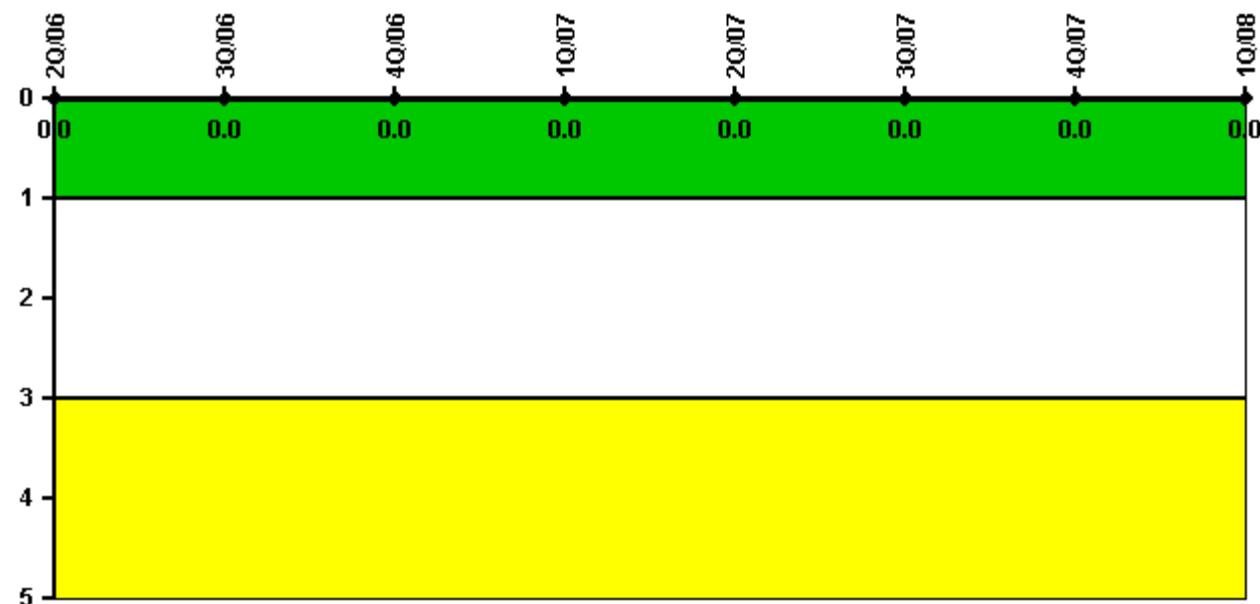
Thresholds: White > 2.0 Yellow > 5.0

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	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	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](#)

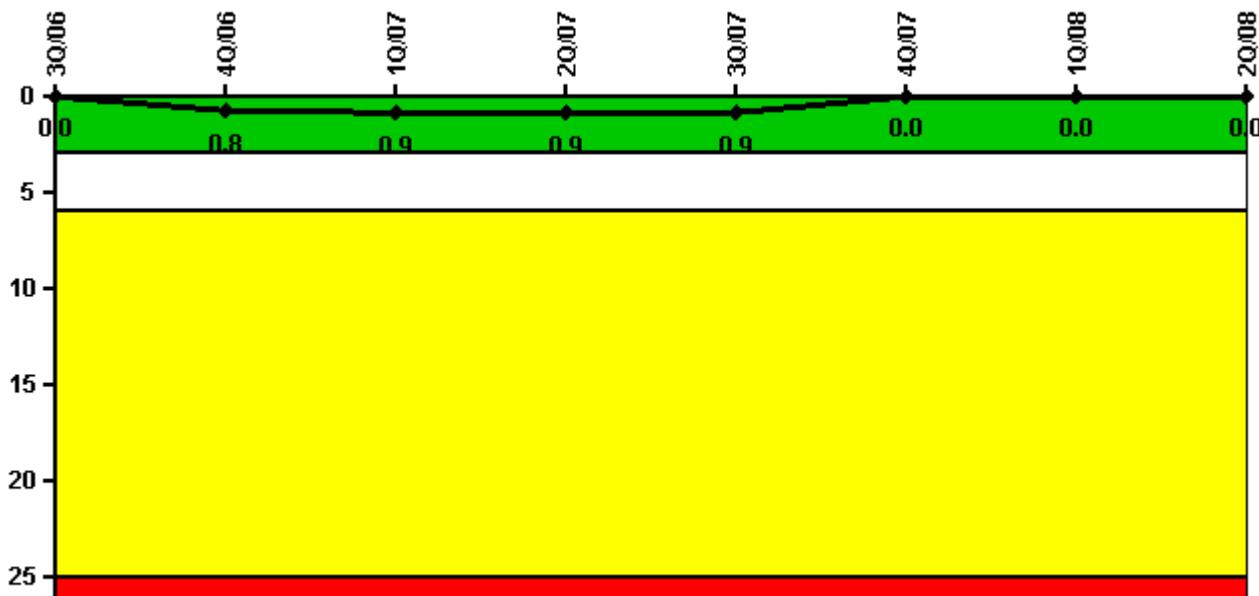
Last Modified: April 30, 2008

Calvert Cliffs 2

2Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



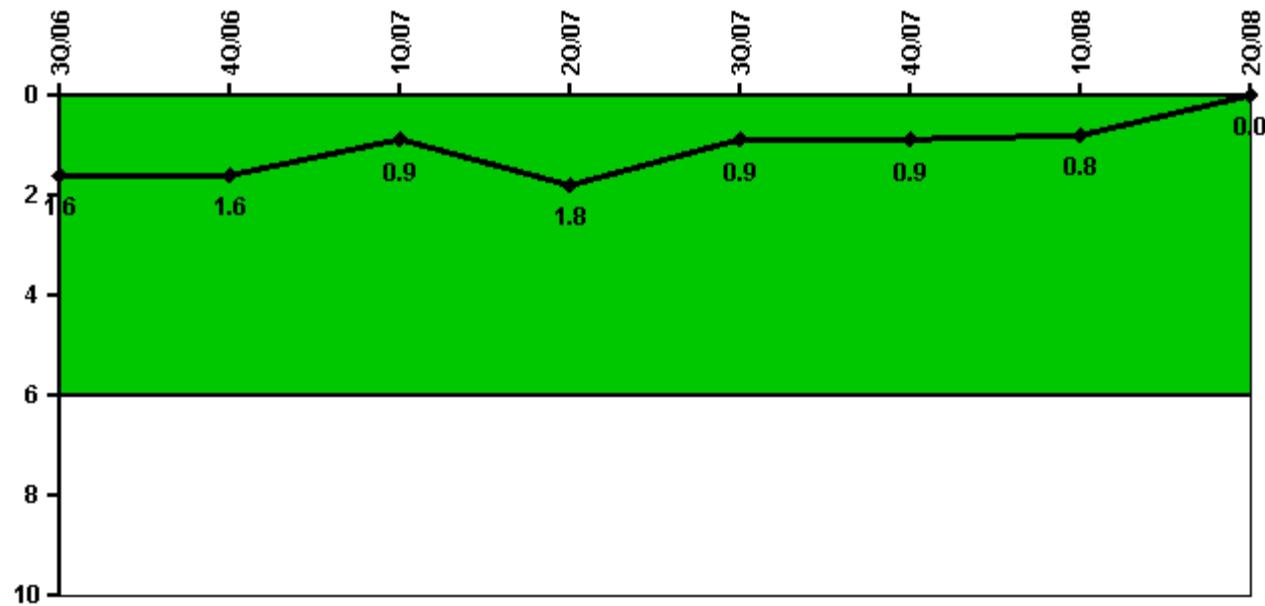
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	0	0	0
Critical hours	2208.0	2090.8	1341.5	2162.4	2208.0	2209.0	2183.0	2184.0
Indicator value	0	0.8	0.9	0.9	0.9	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



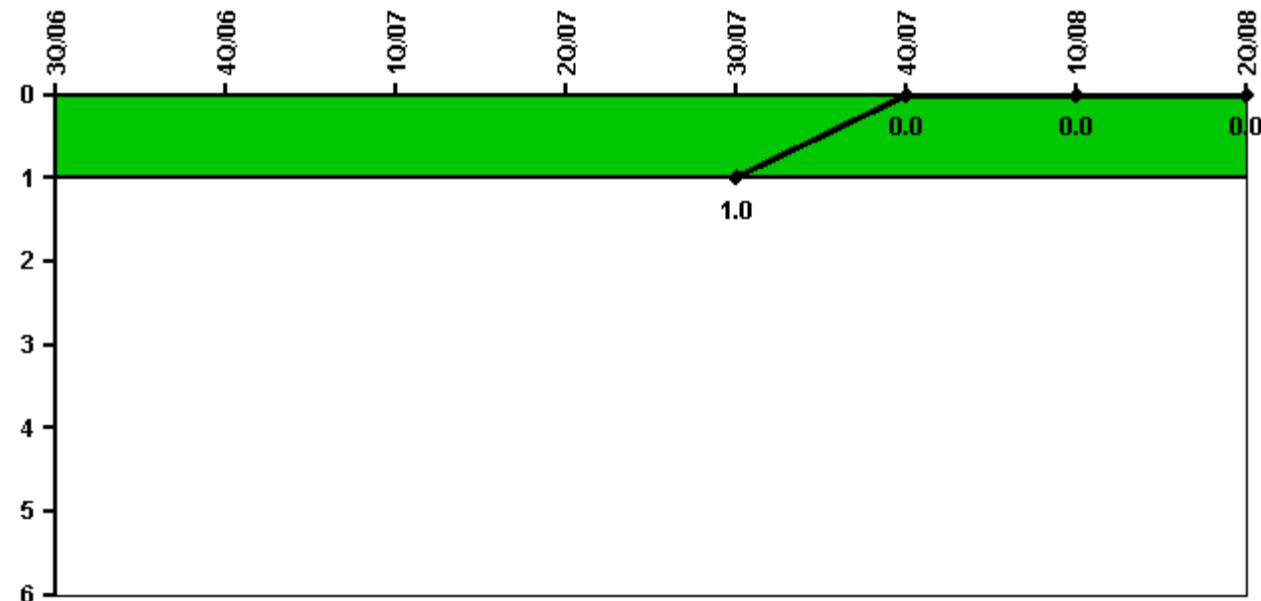
Thresholds: White > 6.0

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	1.0	0	0	1.0	0	0	0	0
Critical hours	2208.0	2090.8	1341.5	2162.4	2208.0	2209.0	2183.0	2184.0
Indicator value	1.6	1.6	0.9	1.8	0.9	0.9	0.8	0

Licensee Comments: none

Unplanned Scrams with Complications



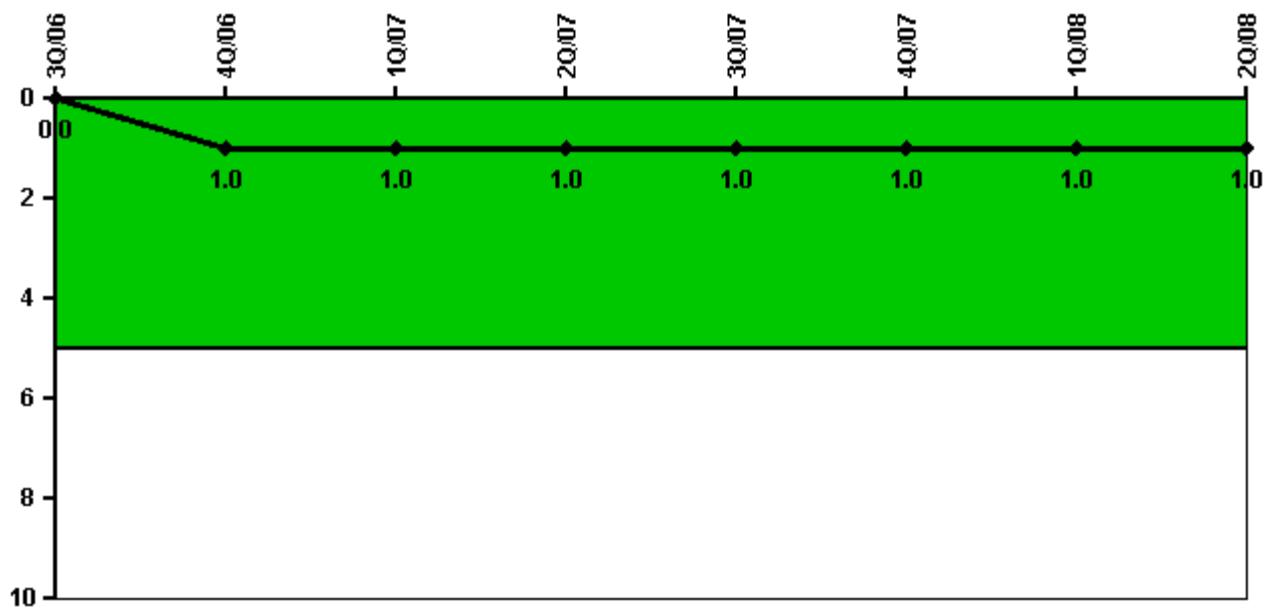
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Scrams with complications		1.0	0	0	0	0	0	0
Indicator value					1.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



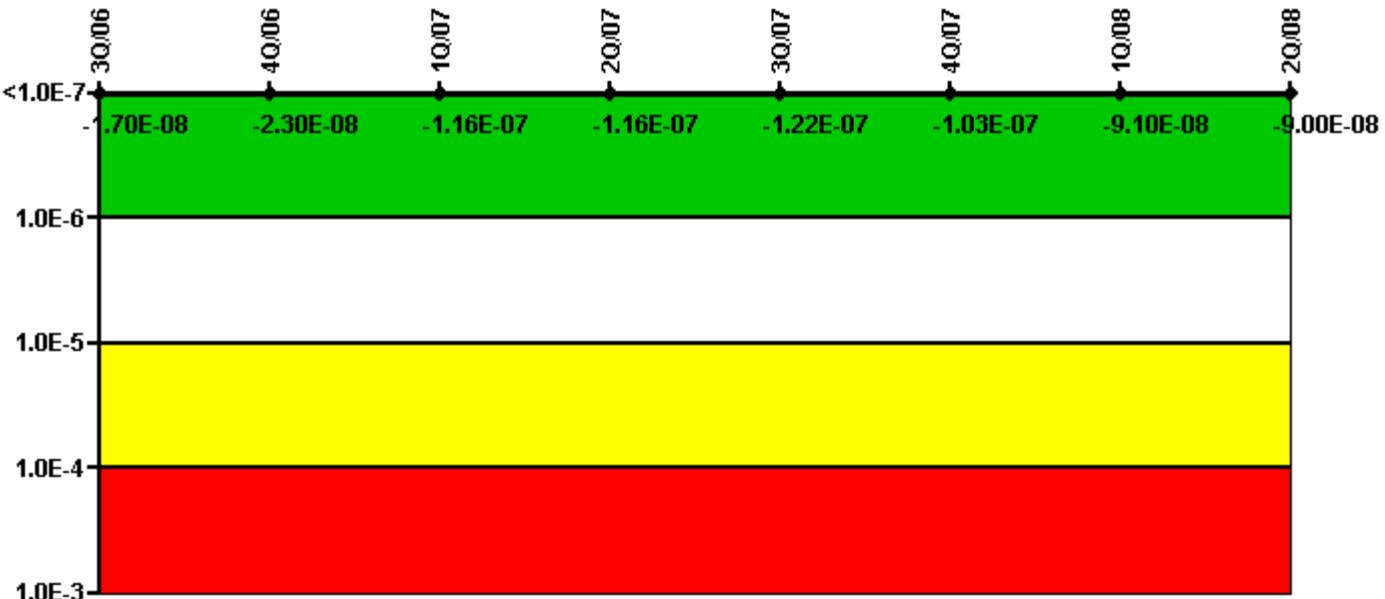
Thresholds: White > 5.0

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	1	0	0	0	1	0	0
Indicator value	0	1	1	1	1	1	1	1

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



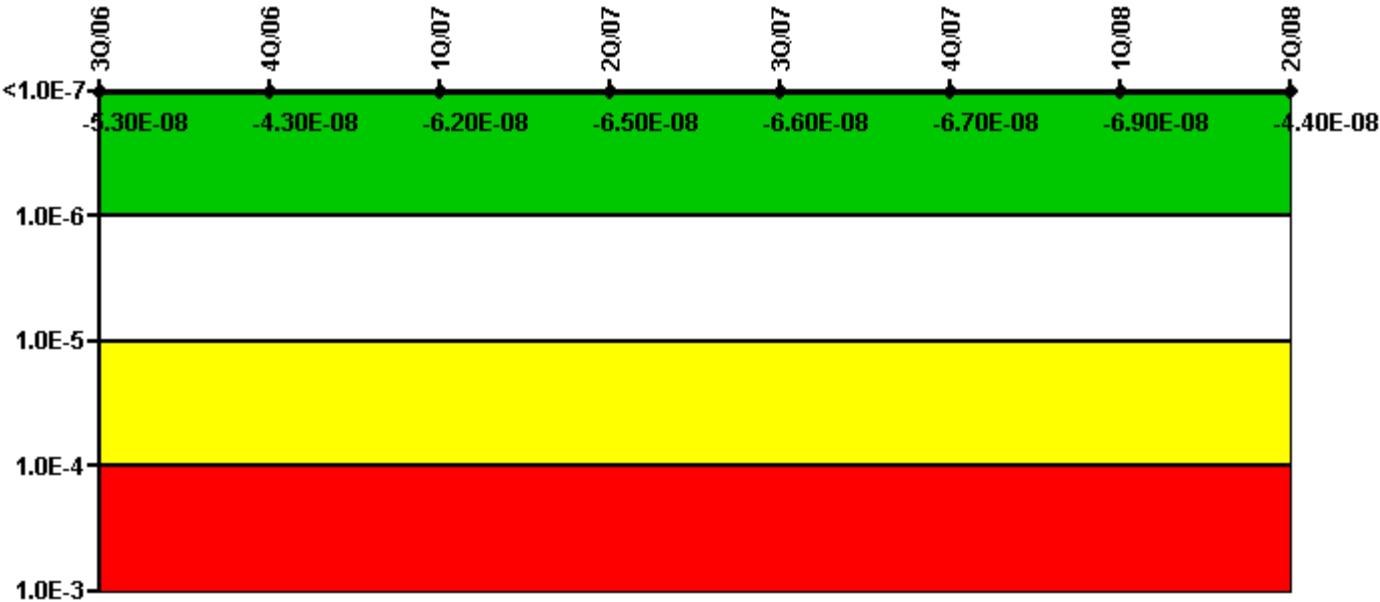
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (Δ CDF)	2.90E-08	1.50E-08	1.40E-08	1.40E-08	7.80E-09	2.70E-08	2.90E-08	4.00E-08
URI (Δ CDF)	-4.60E-08	-3.80E-08	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.20E-07	-1.30E-07
PLE	NO							
Indicator value	-1.70E-08	-2.30E-08	-1.16E-07	-1.16E-07	-1.22E-07	-1.03E-07	-9.10E-08	-9.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



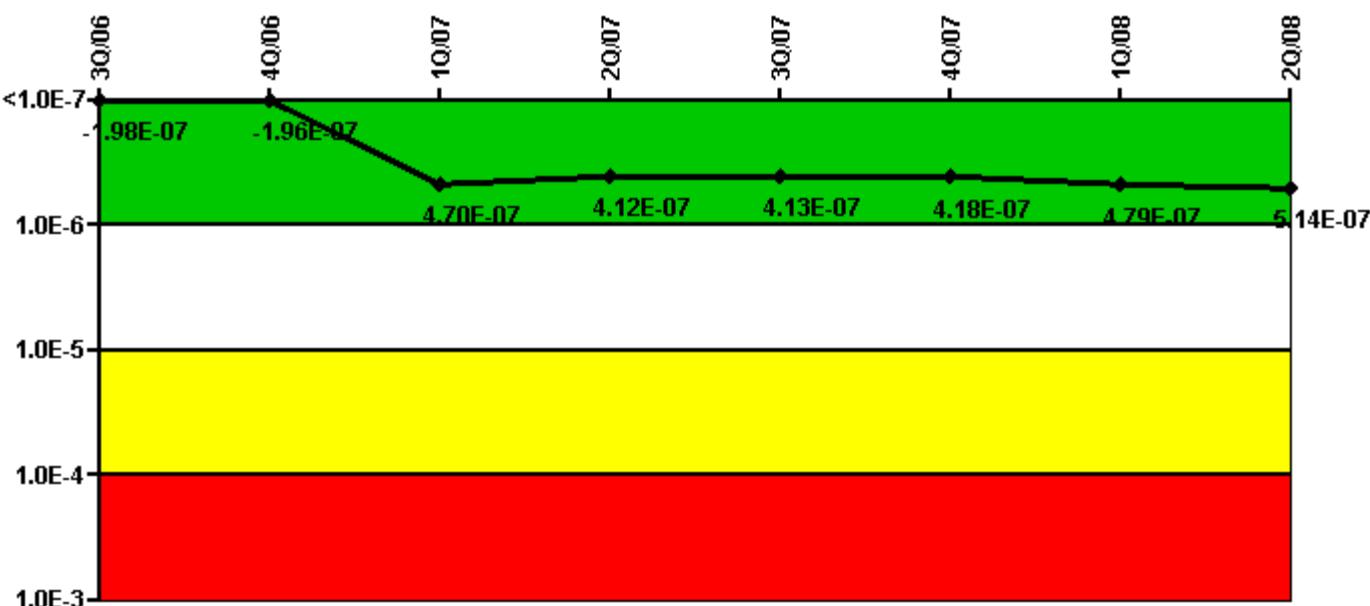
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (Δ CDF)	2.60E-08	3.90E-08	3.00E-08	2.60E-08	2.70E-08	2.80E-08	2.00E-08	4.80E-08
URI (Δ CDF)	-7.90E-08	-8.20E-08	-9.20E-08	-9.10E-08	-9.30E-08	-9.50E-08	-8.90E-08	-9.20E-08
PLE	NO							
Indicator value	-5.30E-08	-4.30E-08	-6.20E-08	-6.50E-08	-6.60E-08	-6.70E-08	-6.90E-08	-4.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



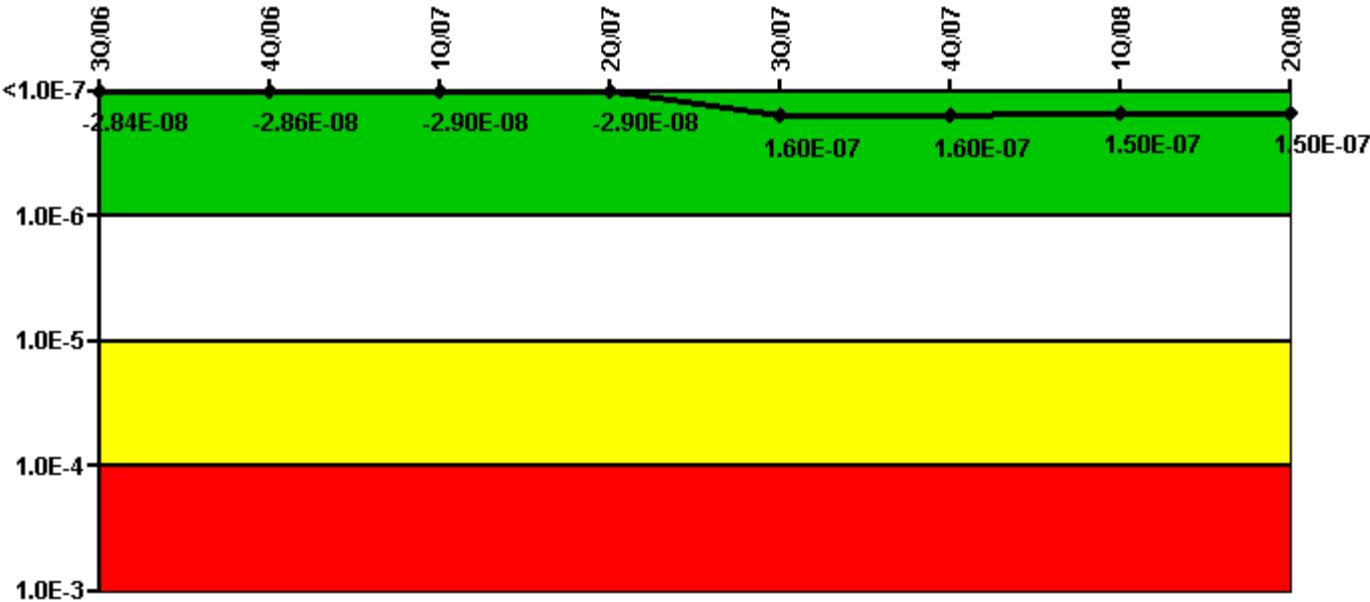
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	3.20E-08	3.40E-08	3.00E-08	3.20E-08	7.30E-08	6.80E-08	6.90E-08	9.40E-08
URI (Δ CDF)	-2.30E-07	-2.30E-07	4.40E-07	3.80E-07	3.40E-07	3.50E-07	4.10E-07	4.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.98E-07	-1.96E-07	4.70E-07	4.12E-07	4.13E-07	4.18E-07	4.79E-07	5.14E-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/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (Δ CDF)	-2.40E-08	-2.40E-08	-2.40E-08	-2.40E-08	1.10E-07	1.10E-07	1.00E-07	1.00E-07
URI (Δ CDF)	-4.40E-09	-4.60E-09	-5.00E-09	-5.00E-09	5.00E-08	5.00E-08	5.00E-08	5.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.84E-08	-2.86E-08	-2.90E-08	-2.90E-08	1.60E-07	1.60E-07	1.50E-07	1.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

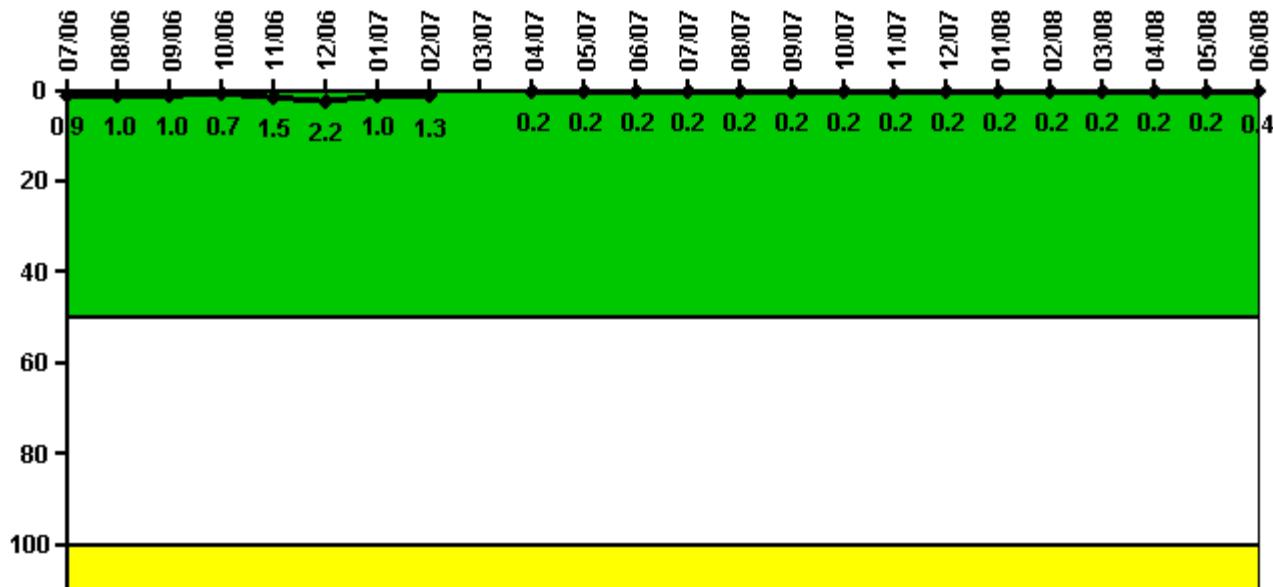
Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (Δ CDF)	1.50E-08	1.80E-08	3.00E-08	3.00E-08	3.60E-08	3.60E-08	4.70E-08	4.30E-08
URI (Δ CDF)	-9.00E-08	-9.00E-08	-9.00E-08	-9.00E-08	-9.00E-08	-9.00E-08	-4.00E-08	-4.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.50E-08	-7.20E-08	-6.00E-08	-6.00E-08	-5.40E-08	-5.40E-08	7.00E-09	2.00E-09

Licensee Comments:

1Q/08: Failure of 2CV5206 occurred late in 1st Q2008. Subsequent apparent cause evaluation determined that failure impacted MSPI function. Determination occurred just after 1st quarter data submittal. Impact of this failure did not change indicator color (green).

Reactor Coolant System Activity



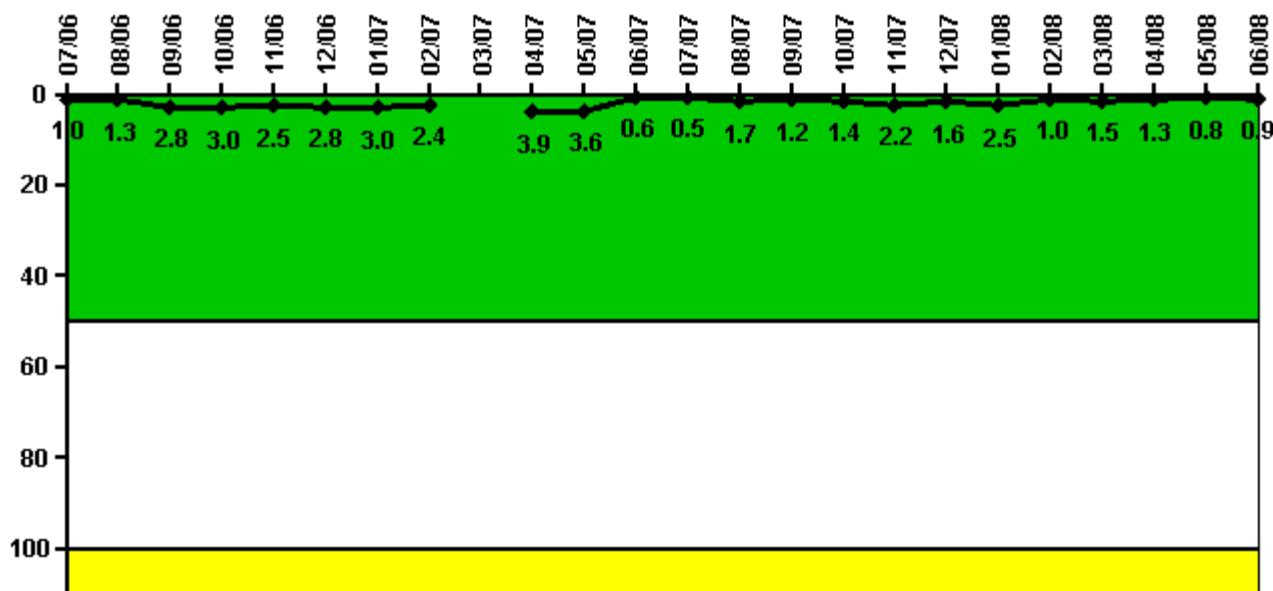
Thresholds: White > 50.0 Yellow > 100.0

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	0.009170	0.009820	0.009930	0.007360	0.014800	0.022400	0.009950	0.013400	N/A	0.001730	0.001650	0.001770
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	0.9	1.0	1.0	0.7	1.5	2.2	1.0	1.3	N/A	0.2	0.2	0.2
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	0.001940	0.002000	0.002210	0.002240	0.002230	0.002350	0.001850	0.002210	0.002370	0.002100	0.002290	0.003820
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4

Licensee Comments: none

Reactor Coolant System Leakage



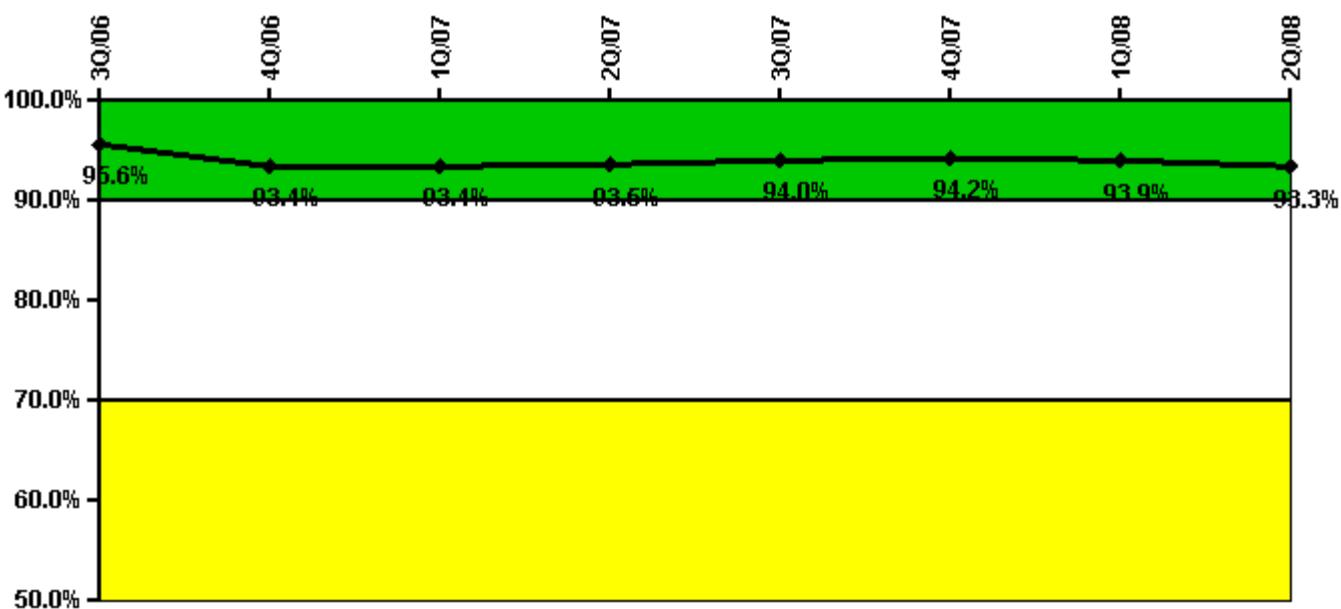
Thresholds: White > 50.0 Yellow > 100.0

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	0.100	0.130	0.283	0.299	0.250	0.281	0.297	0.241	N/A	0.390	0.360	0.060
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	1.0	1.3	2.8	3.0	2.5	2.8	3.0	2.4	N/A	3.9	3.6	0.6
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	0.050	0.170	0.120	0.140	0.218	0.160	0.250	0.100	0.150	0.130	0.080	0.090
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	0.5	1.7	1.2	1.4	2.2	1.6	2.5	1.0	1.5	1.3	0.8	0.9

Licensee Comments: none

Drill/Exercise Performance



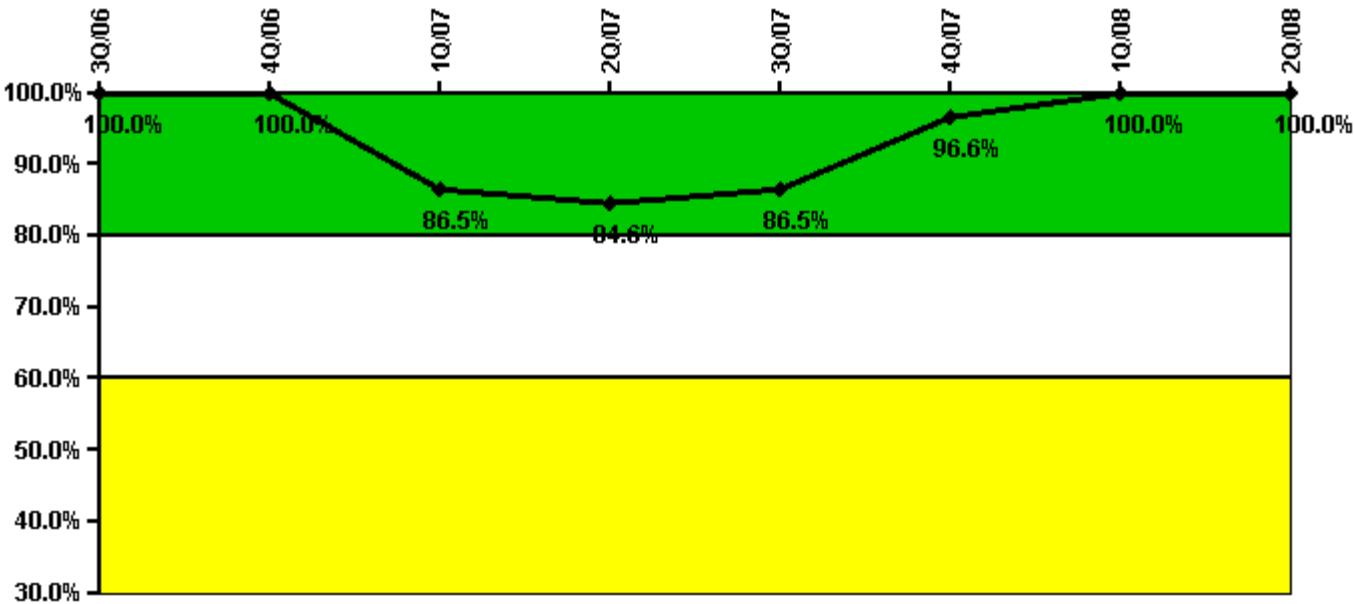
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful opportunities	56.0	78.0	3.0	21.0	36.0	69.0	4.0	26.0
Total opportunities	60.0	90.0	3.0	22.0	36.0	71.0	5.0	27.0
Indicator value	95.6%	93.4%	93.4%	93.5%	94.0%	94.2%	93.9%	93.3%

Licensee Comments: none

ERO Drill Participation



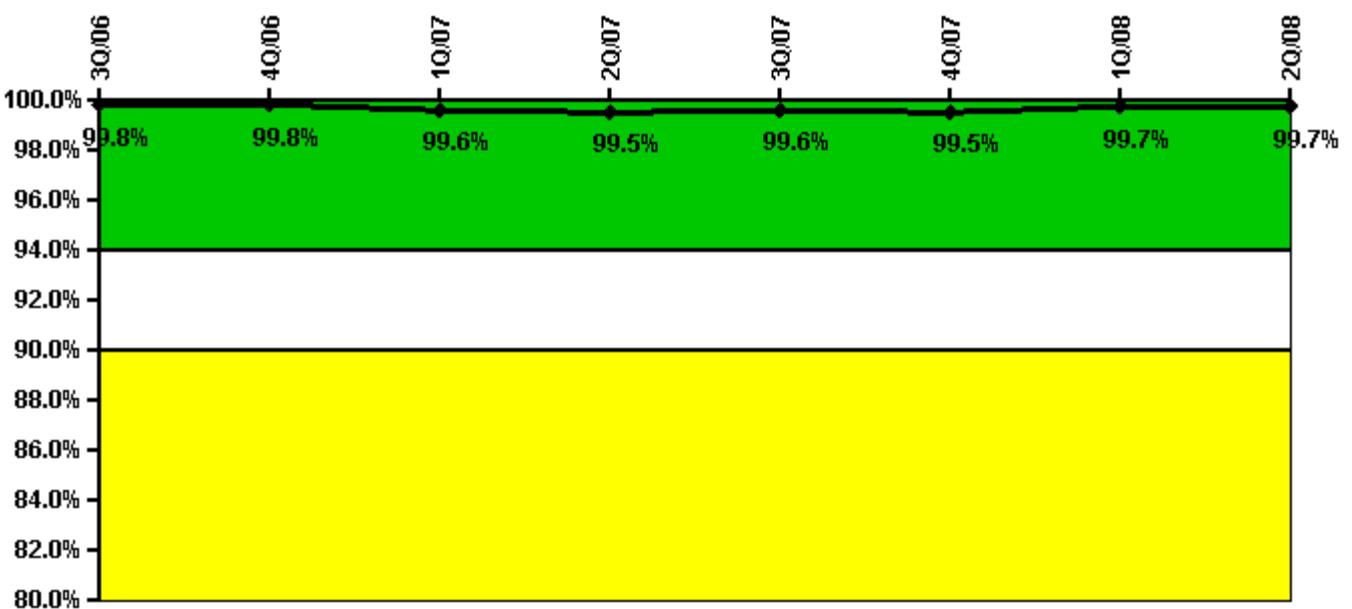
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Participating Key personnel	66.0	68.0	77.0	77.0	77.0	85.0	83.0	87.0
Total Key personnel	66.0	68.0	89.0	91.0	89.0	88.0	83.0	87.0
Indicator value	100.0%	100.0%	86.5%	84.6%	86.5%	96.6%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



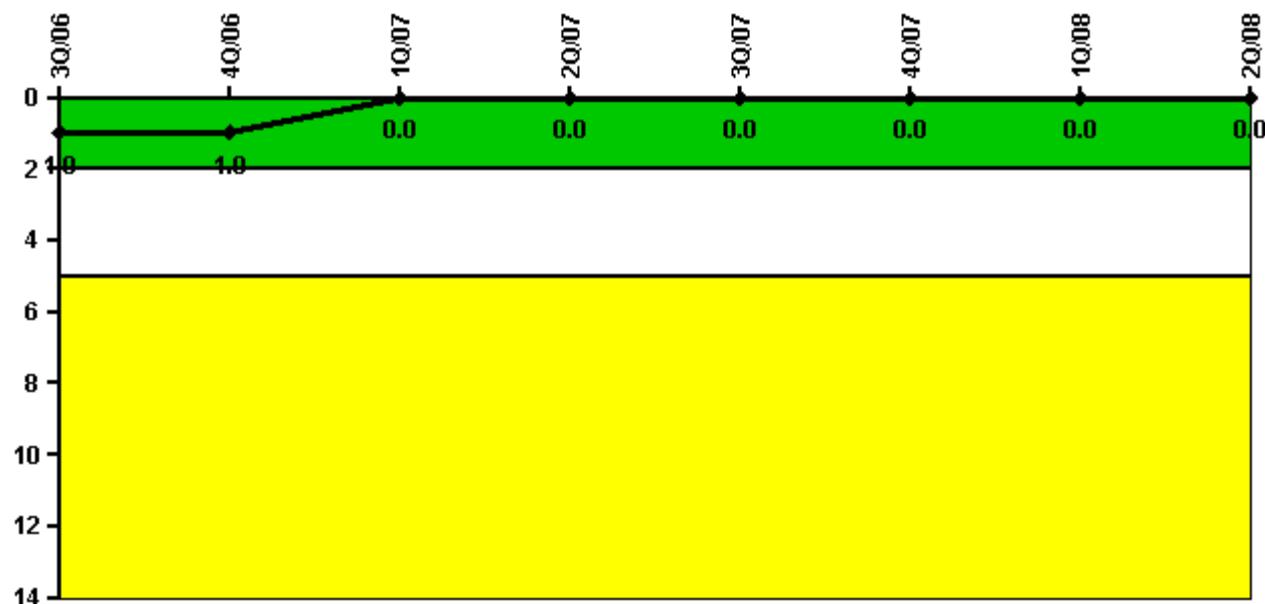
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful siren-tests	946	948	940	944	947	1019	947	946
Total sirens-tests	949	949	949	949	949	1022	949	949
Indicator value	99.8%	99.8%	99.6%	99.5%	99.6%	99.5%	99.7%	99.7%

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	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	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](#)

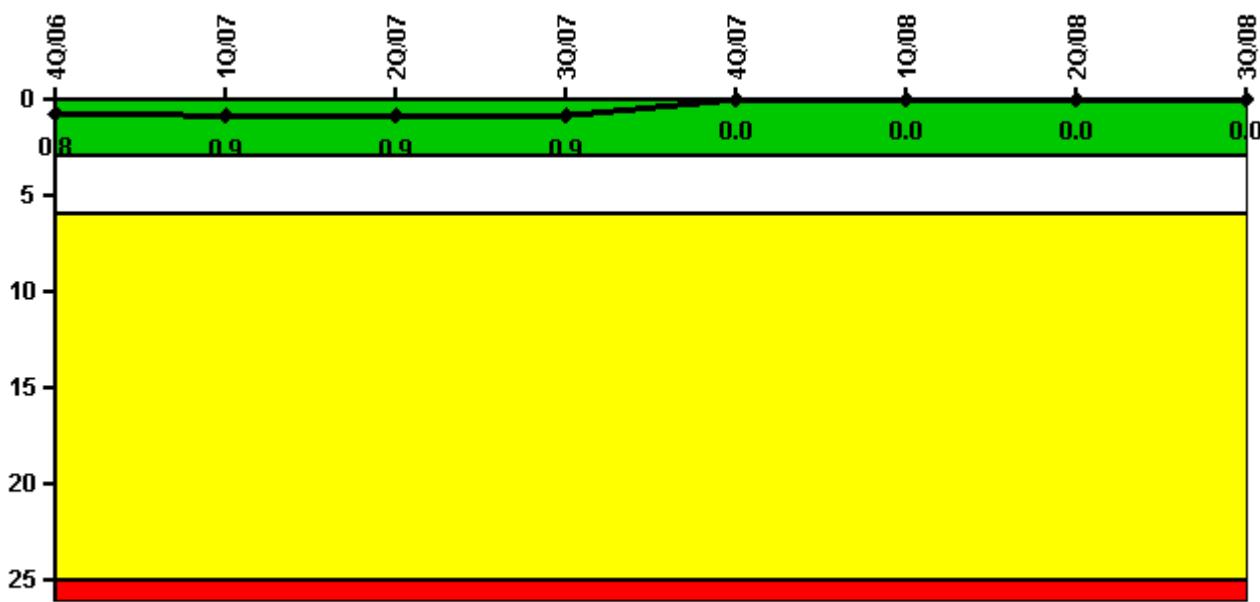
Last Modified: August 4, 2008

Calvert Cliffs 2

3Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



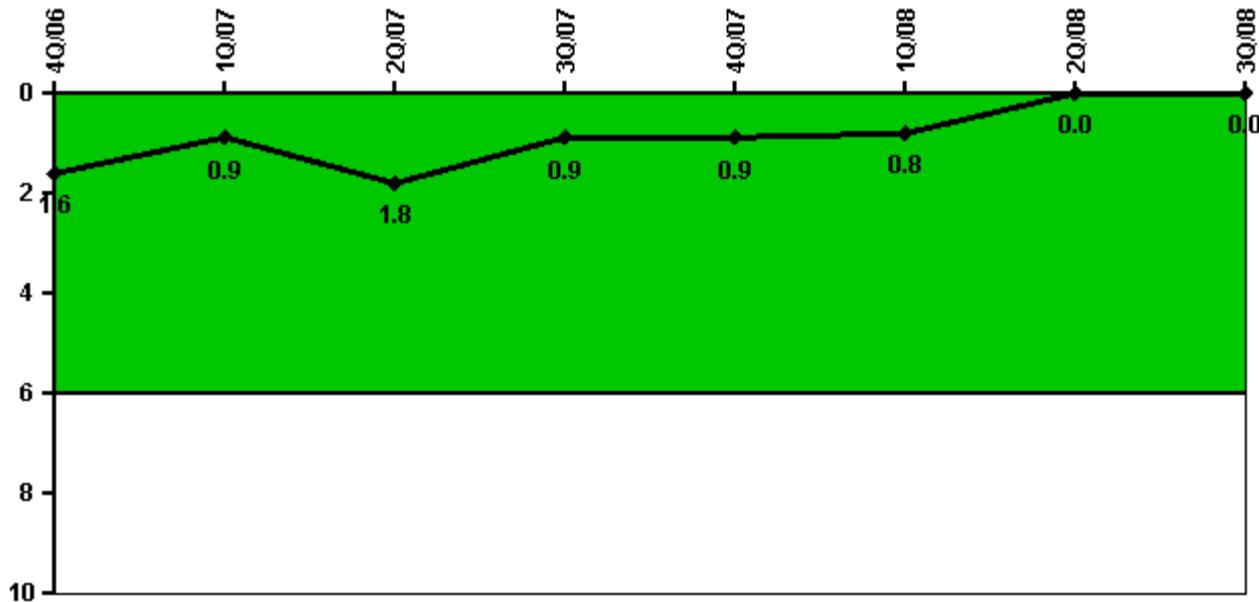
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	0	0	0	0
Critical hours	2090.8	1341.5	2162.4	2208.0	2209.0	2183.0	2184.0	2208.0
Indicator value	0.8	0.9	0.9	0.9	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



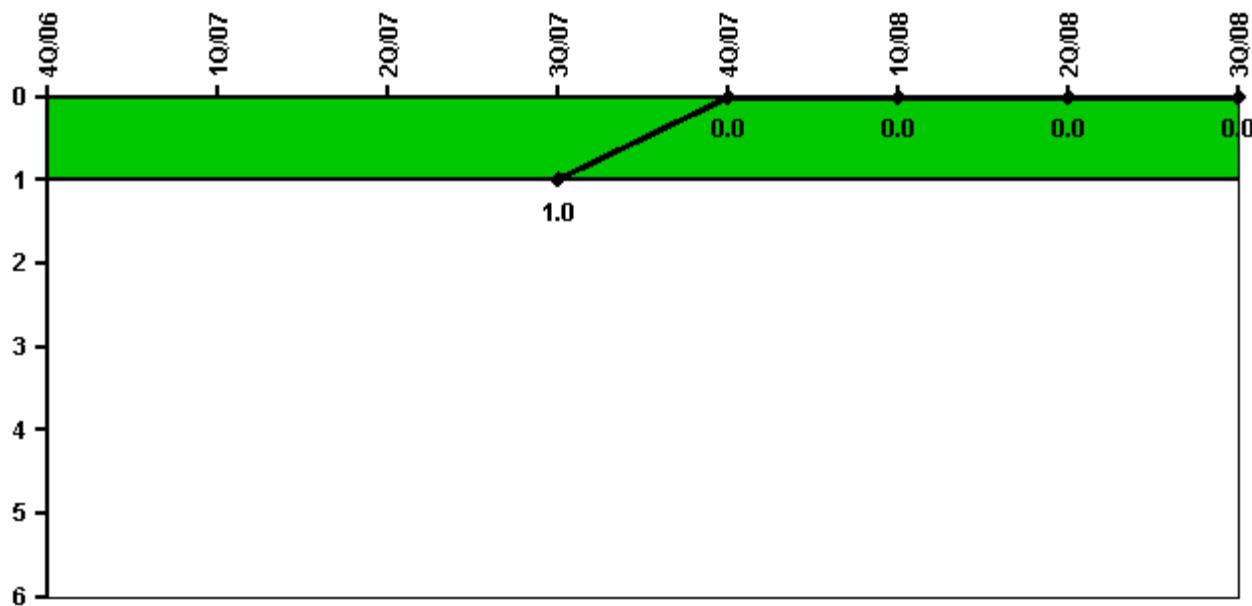
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	2090.8	1341.5	2162.4	2208.0	2209.0	2183.0	2184.0	2208.0
Indicator value	1.6	0.9	1.8	0.9	0.9	0.8	0	0

Licensee Comments: none

Unplanned Scrams with Complications



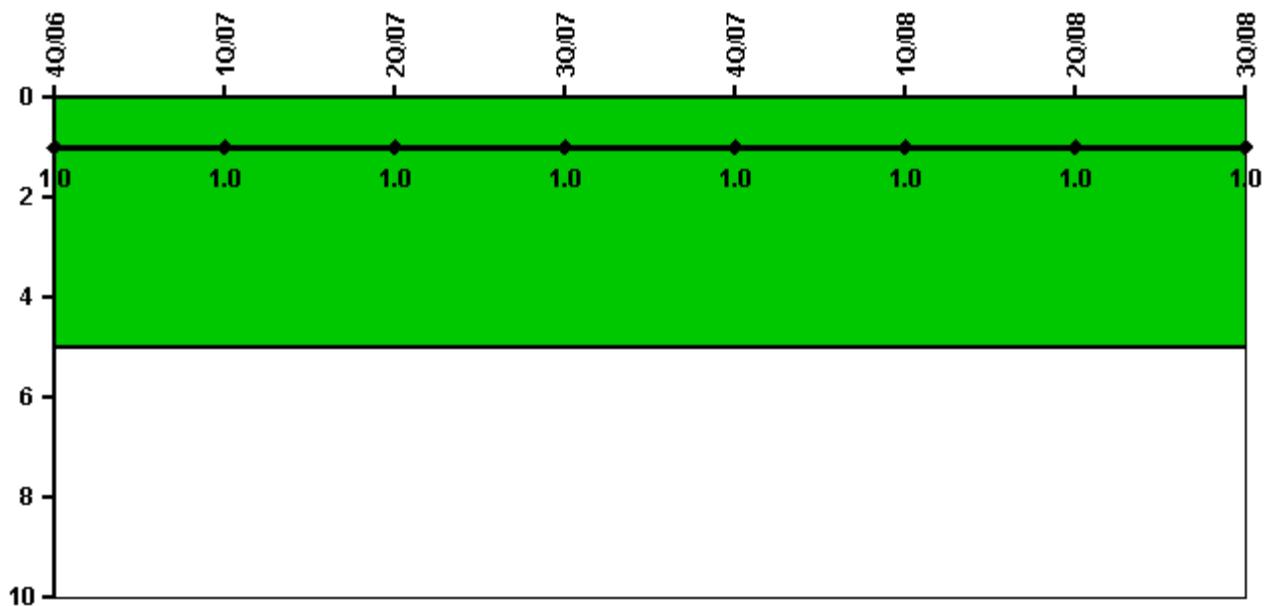
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Scrams with complications	1.0	0	0	0	0	0	0	0
Indicator value					1.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



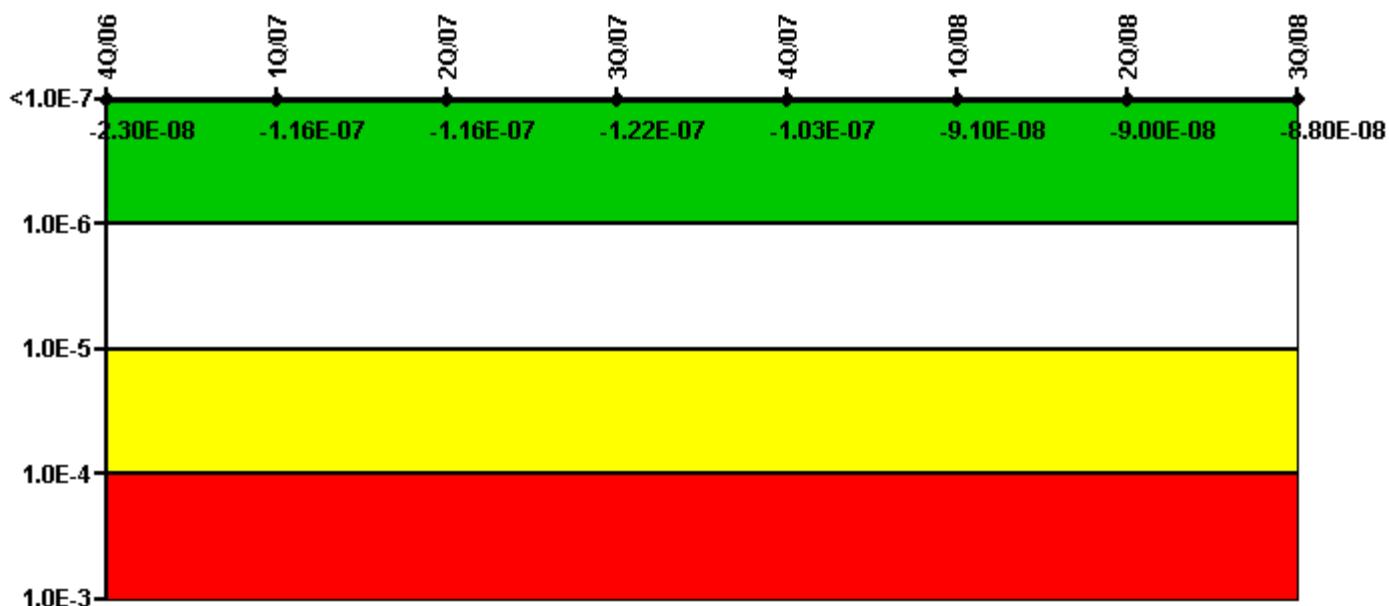
Thresholds: White > 5.0

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	1	0	0	0	1	0	0	0
Indicator value	1	1	1	1	1	1	1	1

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



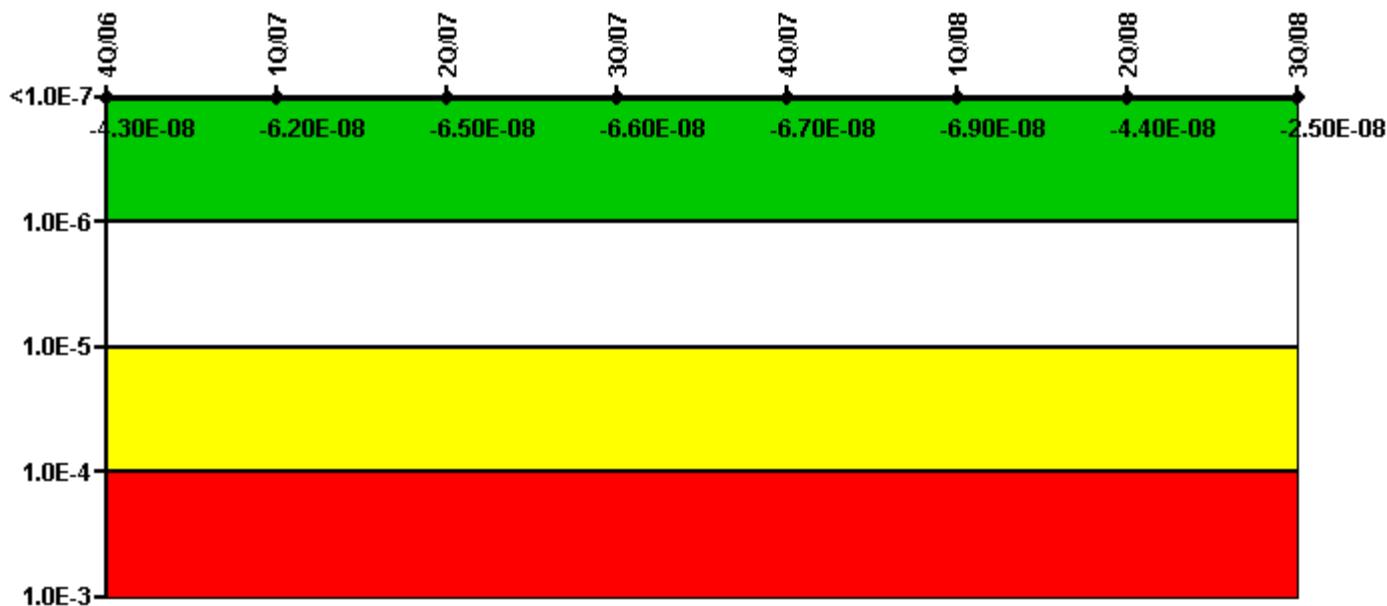
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (Δ CDF)	1.50E-08	1.40E-08	1.40E-08	7.80E-09	2.70E-08	2.90E-08	4.00E-08	4.20E-08
URI (Δ CDF)	-3.80E-08	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.20E-07	-1.30E-07	-1.30E-07
PLE	NO							
Indicator value	-2.30E-08	-1.16E-07	-1.16E-07	-1.22E-07	-1.03E-07	-9.10E-08	-9.00E-08	-8.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



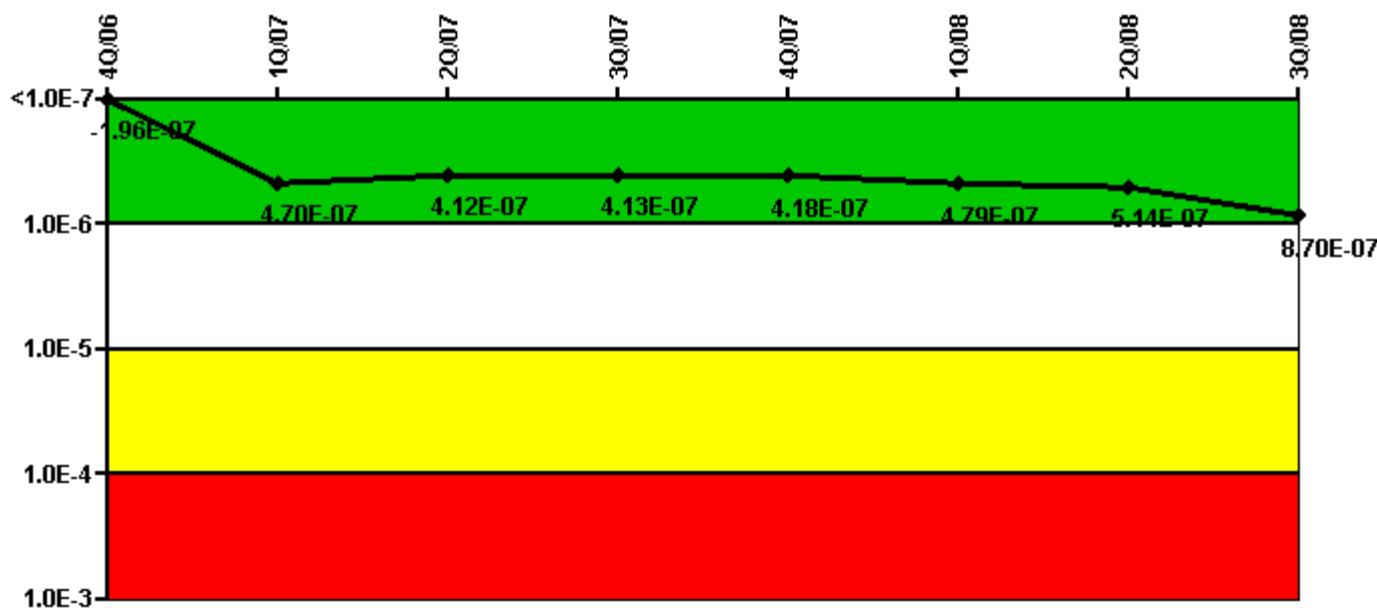
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	3.90E-08	3.00E-08	2.60E-08	2.70E-08	2.80E-08	2.00E-08	4.80E-08	6.50E-08
URI (ΔCDF)	-8.20E-08	-9.20E-08	-9.10E-08	-9.30E-08	-9.50E-08	-8.90E-08	-9.20E-08	-9.00E-08
PLE	NO							
Indicator value	-4.30E-08	-6.20E-08	-6.50E-08	-6.60E-08	-6.70E-08	-6.90E-08	-4.40E-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

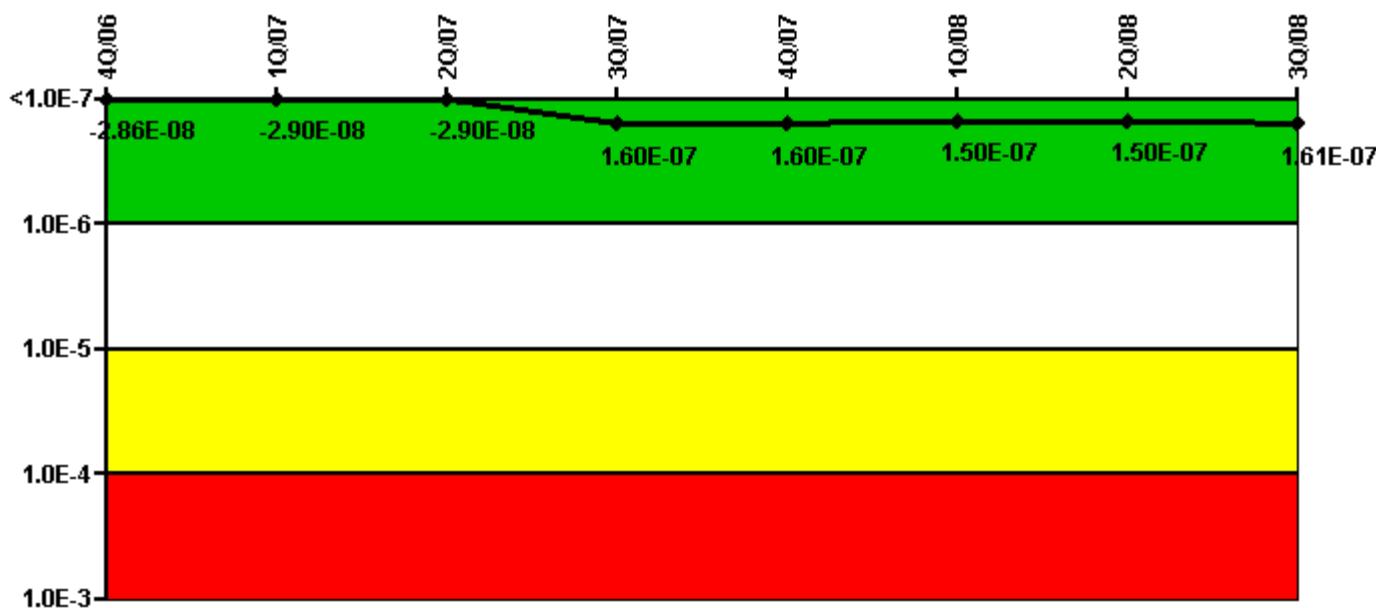
Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (Δ CDF)	3.40E-08	3.00E-08	3.20E-08	7.30E-08	6.80E-08	6.90E-08	9.40E-08	7.00E-08
URI (Δ CDF)	-2.30E-07	4.40E-07	3.80E-07	3.40E-07	3.50E-07	4.10E-07	4.20E-07	8.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.96E-07	4.70E-07	4.12E-07	4.13E-07	4.18E-07	4.79E-07	5.14E-07	8.70E-07

Licensee Comments:

3Q/08: Risk Cap Invoked.

Mitigating Systems Performance Index, Residual Heat Removal System



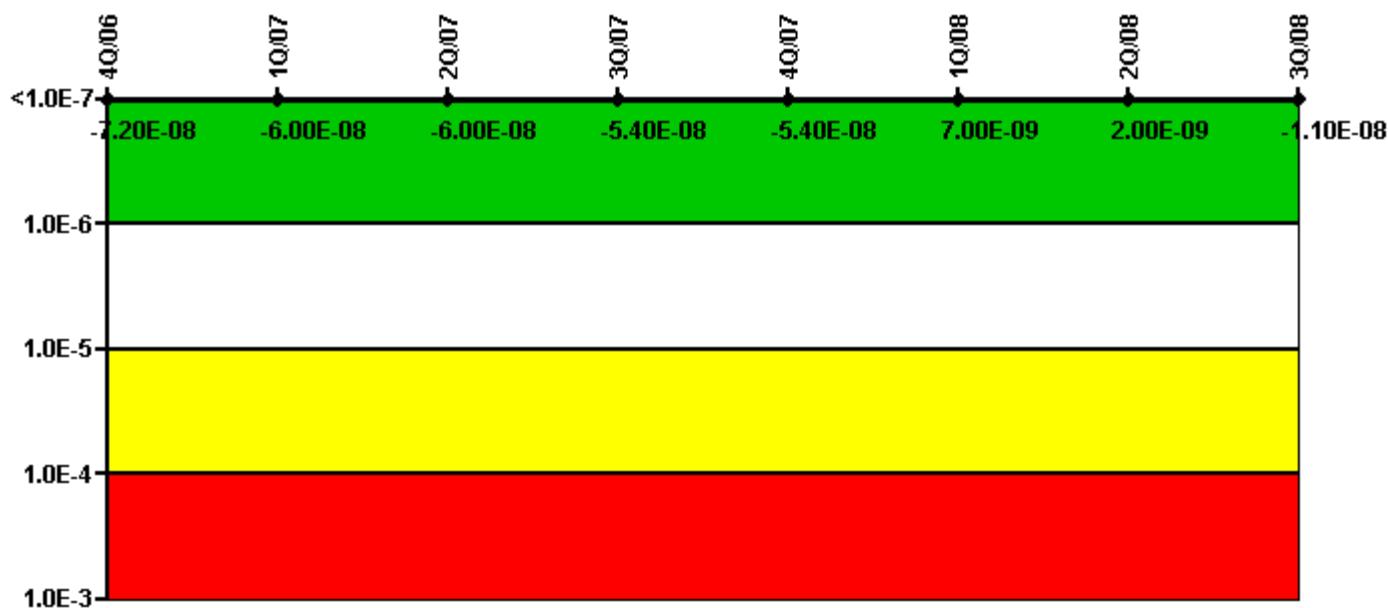
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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-08	-2.40E-08	-2.40E-08	1.10E-07	1.10E-07	1.00E-07	1.00E-07	1.10E-07
URI (Δ CDF)	-4.60E-09	-5.00E-09	-5.00E-09	5.00E-08	5.00E-08	5.00E-08	5.00E-08	5.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.86E-08	-2.90E-08	-2.90E-08	1.60E-07	1.60E-07	1.50E-07	1.50E-07	1.61E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



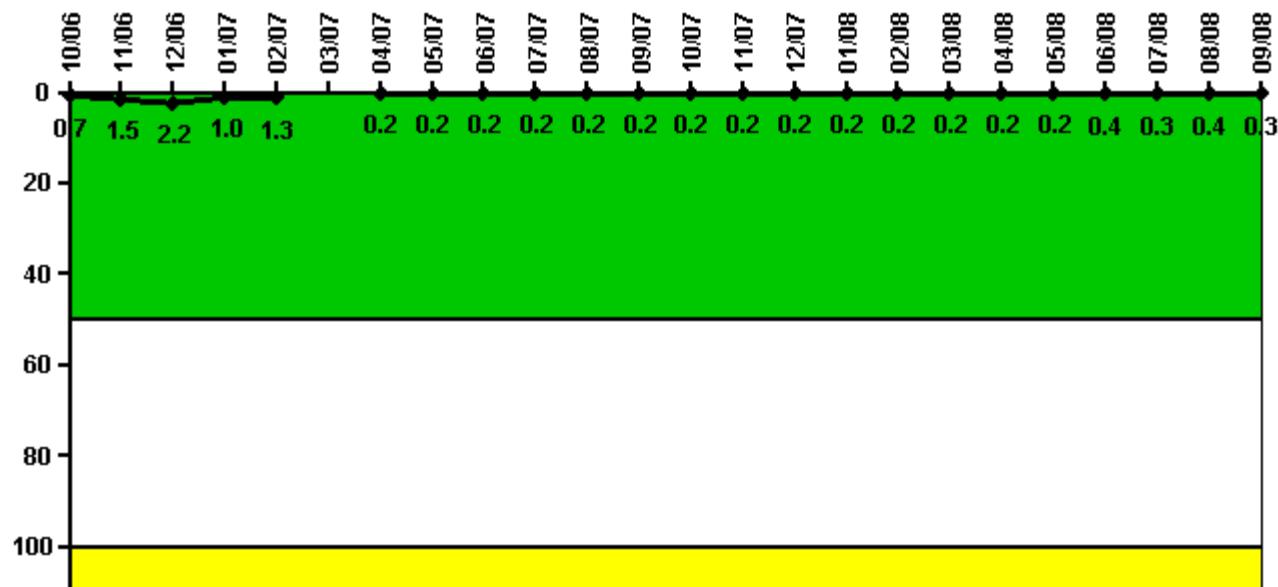
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.80E-08	3.00E-08	3.00E-08	3.60E-08	3.60E-08	4.70E-08	4.30E-08	3.10E-08
URI (Δ CDF)	-9.00E-08	-9.00E-08	-9.00E-08	-9.00E-08	-9.00E-08	-4.00E-08	-4.10E-08	-4.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.20E-08	-6.00E-08	-6.00E-08	-5.40E-08	-5.40E-08	7.00E-09	2.00E-09	-1.10E-08

Licensee Comments: none

Reactor Coolant System Activity



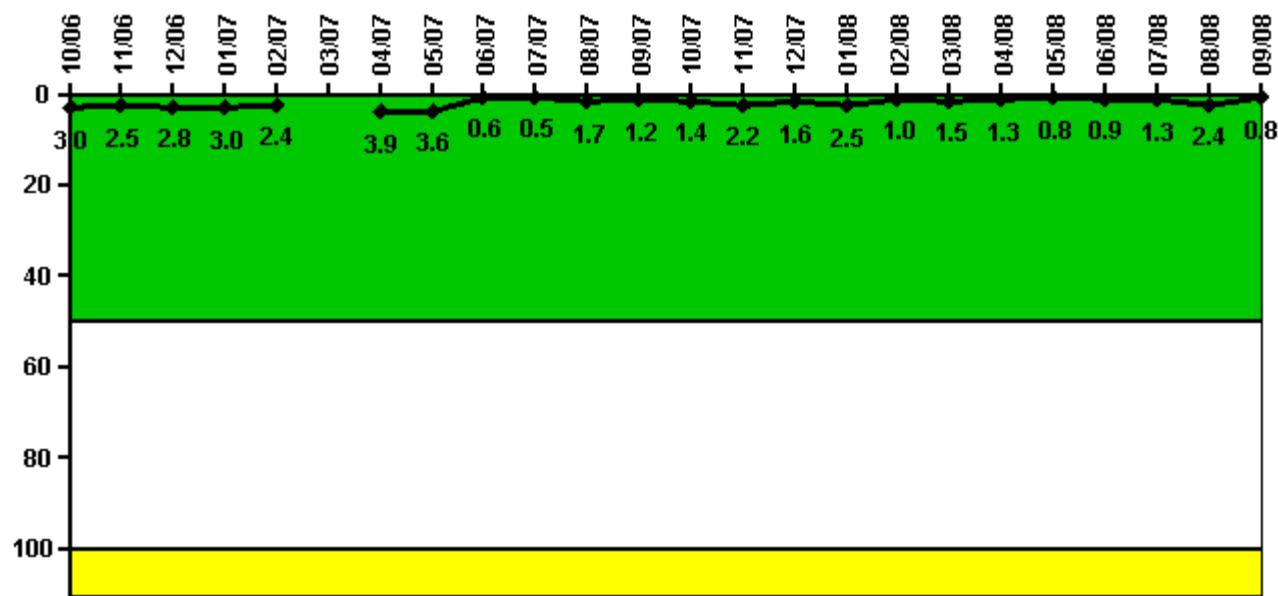
Thresholds: White > 50.0 Yellow > 100.0

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	0.007360	0.014800	0.022400	0.009950	0.013400	N/A	0.001730	0.001650	0.001770	0.001940	0.002000	0.002210
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	0.7	1.5	2.2	1.0	1.3	N/A	0.2	0.2	0.2	0.2	0.2	0.2
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	0.002240	0.002230	0.002350	0.001850	0.002210	0.002370	0.002100	0.002290	0.003820	0.003180	0.004380	0.003470
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	0.2	0.4	0.3	0.4	0.3							

Licensee Comments: none

Reactor Coolant System Leakage



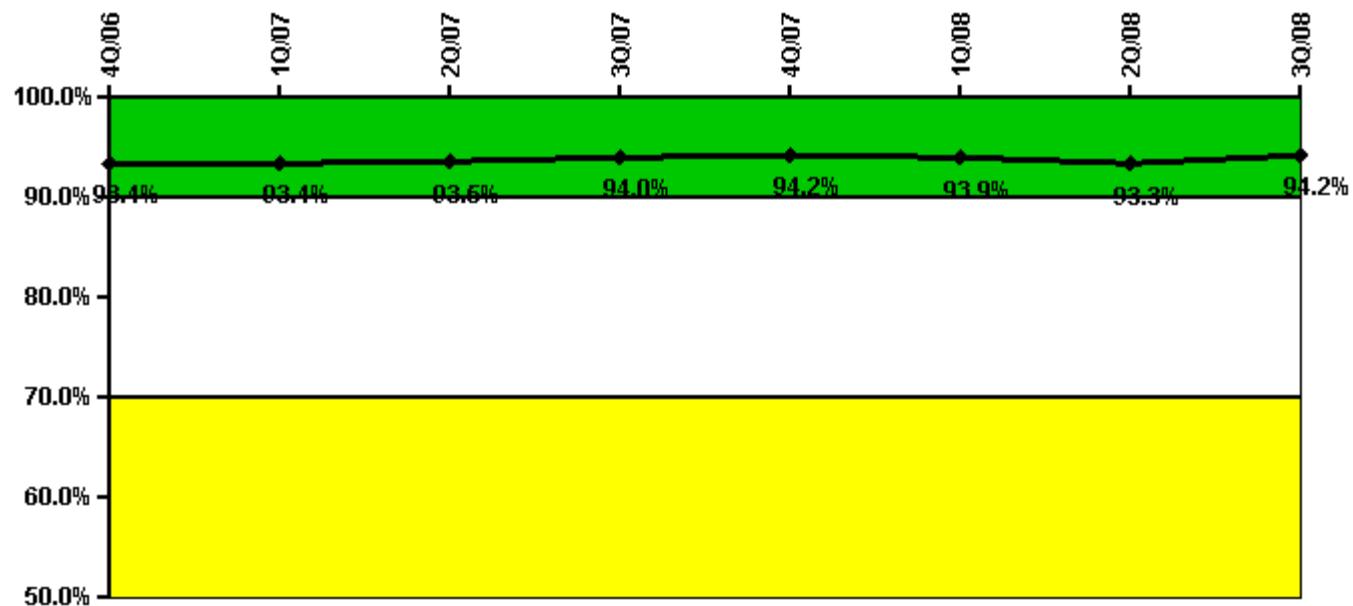
Thresholds: White > 50.0 Yellow > 100.0

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	0.299	0.250	0.281	0.297	0.241	N/A	0.390	0.360	0.060	0.050	0.170	0.120
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	3.0	2.5	2.8	3.0	2.4	N/A	3.9	3.6	0.6	0.5	1.7	1.2
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	0.140	0.218	0.160	0.250	0.100	0.150	0.130	0.080	0.090	0.130	0.240	0.080
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	1.4	2.2	1.6	2.5	1.0	1.5	1.3	0.8	0.9	1.3	2.4	0.8

Licensee Comments: none

Drill/Exercise Performance



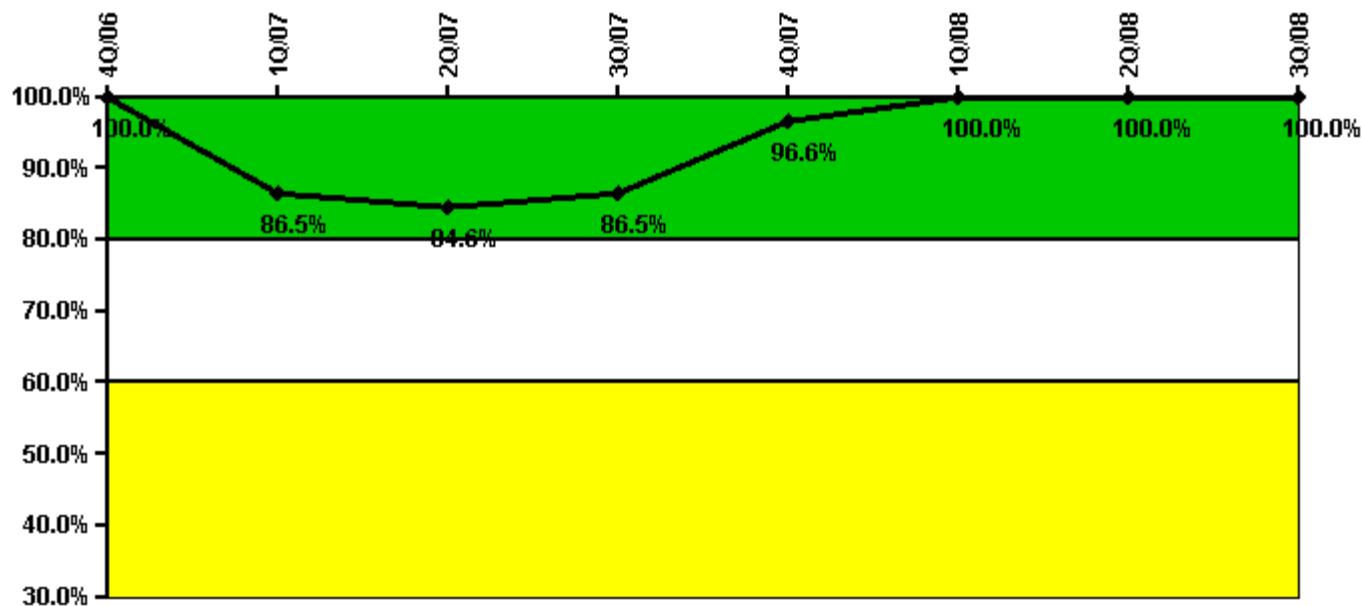
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful opportunities	78.0	3.0	21.0	36.0	69.0	4.0	26.0	40.0
Total opportunities	90.0	3.0	22.0	36.0	71.0	5.0	27.0	40.0
Indicator value	93.4%	93.4%	93.5%	94.0%	94.2%	93.9%	93.3%	94.2%

Licensee Comments: none

ERO Drill Participation



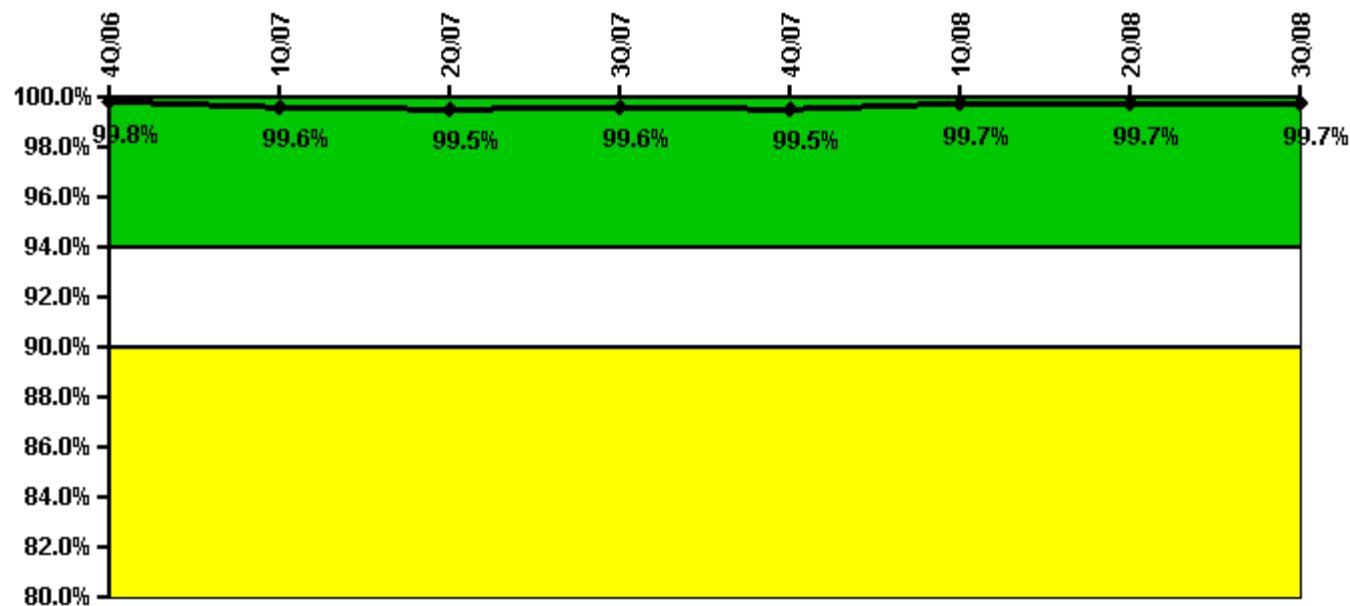
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Participating Key personnel	68.0	77.0	77.0	77.0	85.0	83.0	87.0	86.0
Total Key personnel	68.0	89.0	91.0	89.0	88.0	83.0	87.0	86.0
Indicator value	100.0%	86.5%	84.6%	86.5%	96.6%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



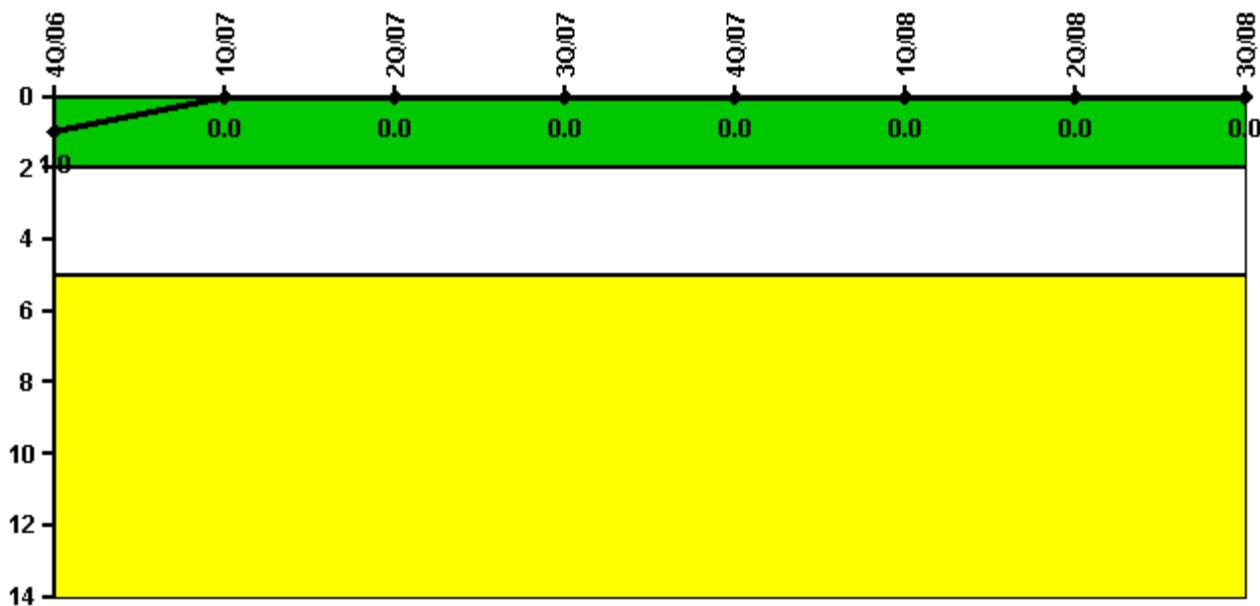
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful siren-tests	948	940	944	947	1019	947	946	946
Total sirens-tests	949	949	949	949	1022	949	949	949
Indicator value	99.8%	99.6%	99.5%	99.6%	99.5%	99.7%	99.7%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



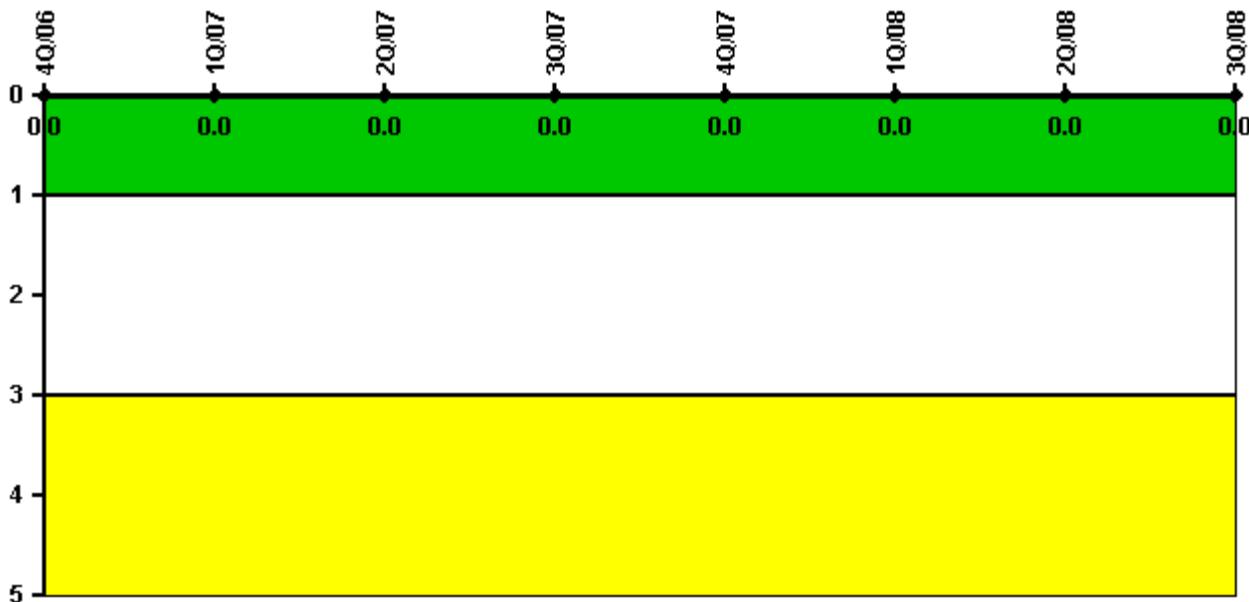
Thresholds: White > 2.0 Yellow > 5.0

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	1	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/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](#)

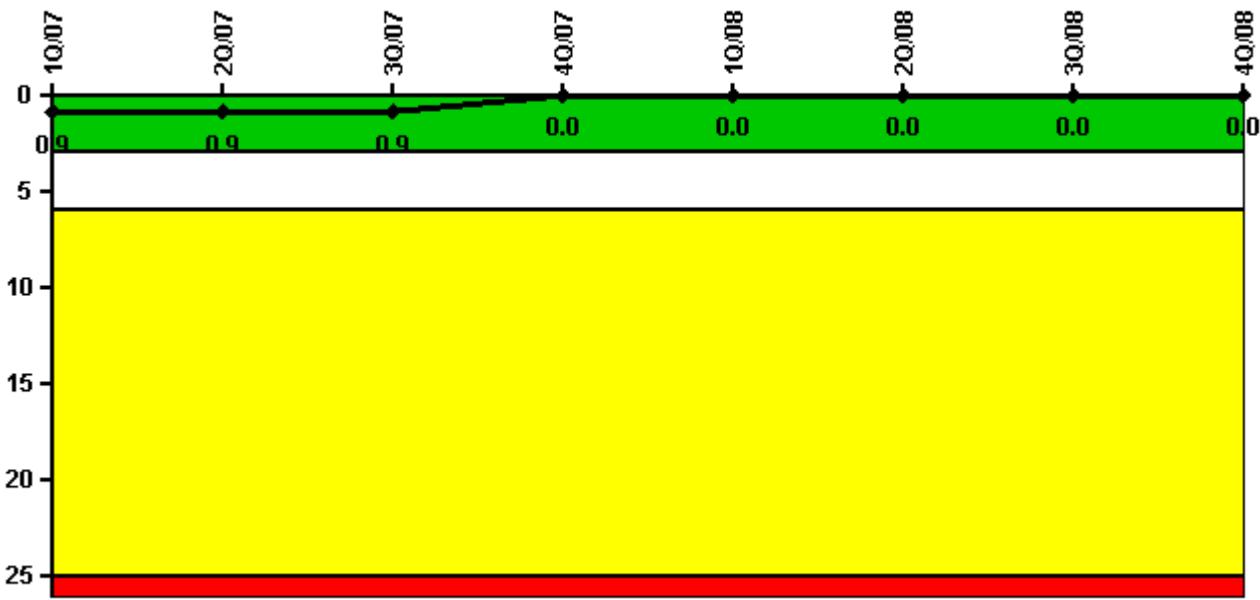
Last Modified: November 26, 2008

Calvert Cliffs 2

4Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



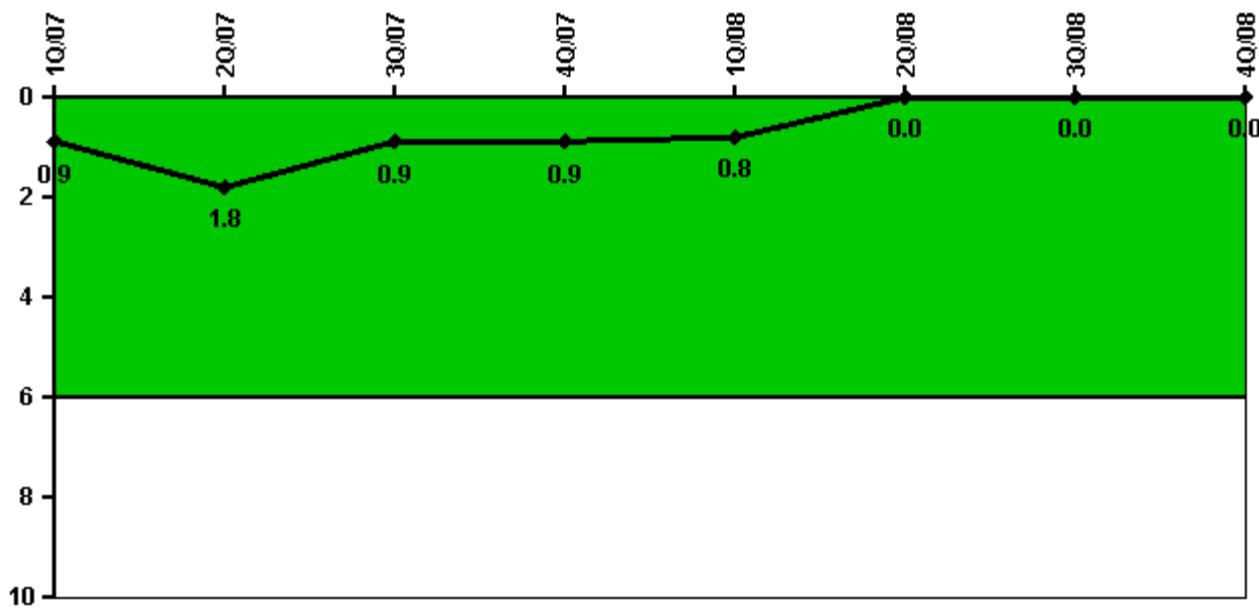
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1341.5	2162.4	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0
Indicator value	0.9	0.9	0.9	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



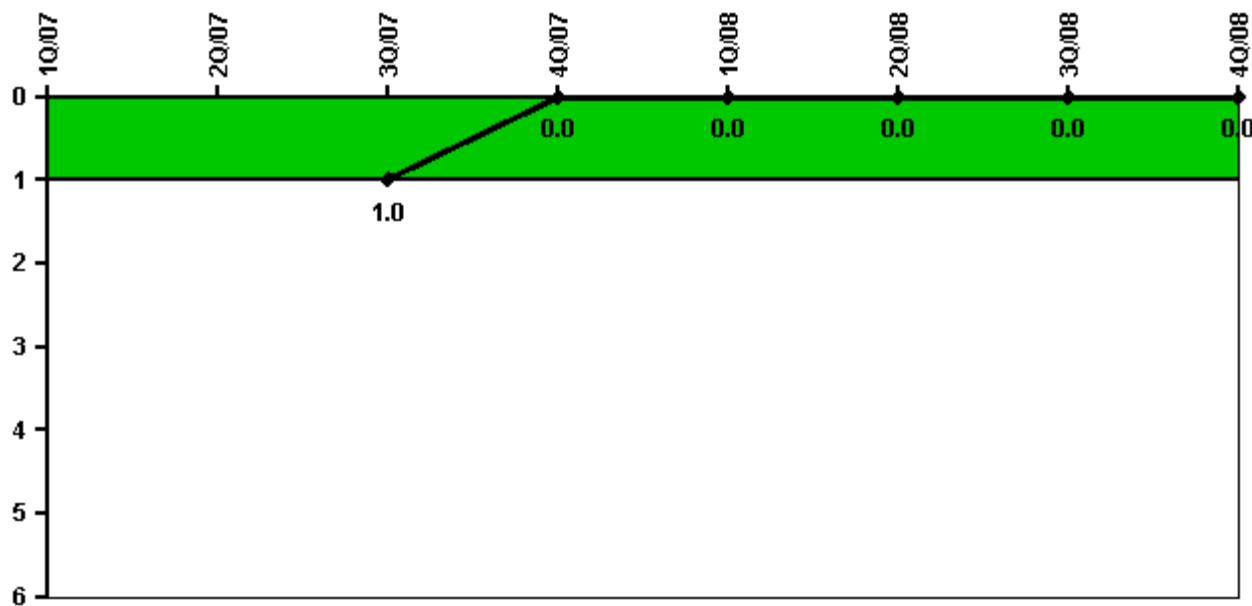
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	1341.5	2162.4	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0
Indicator value	0.9	1.8	0.9	0.9	0.8	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



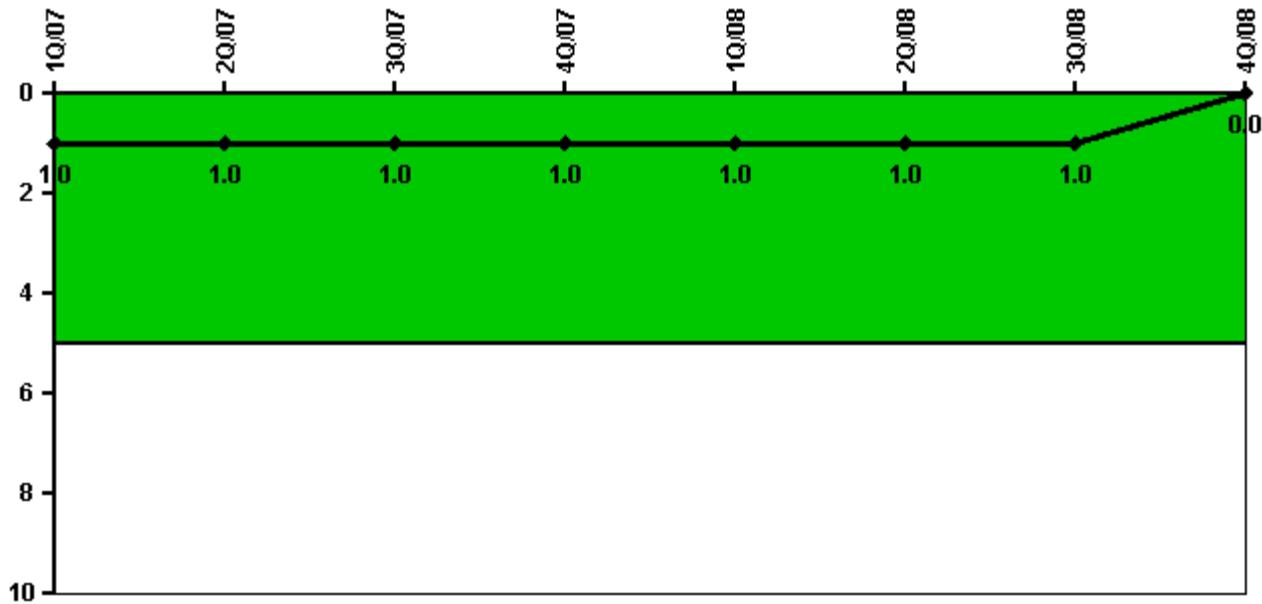
Thresholds: White > 1.0

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			1.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



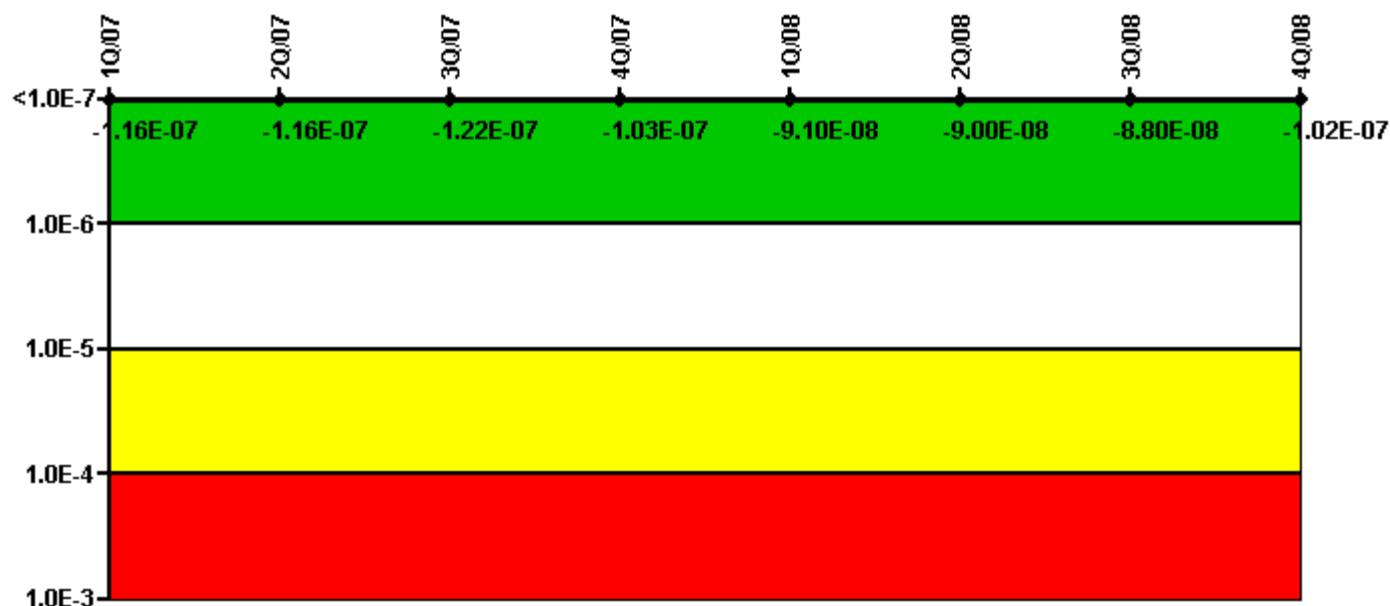
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Safety System Functional Failures	0	0	0	1	0	0	0	0
Indicator value	1	0						

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



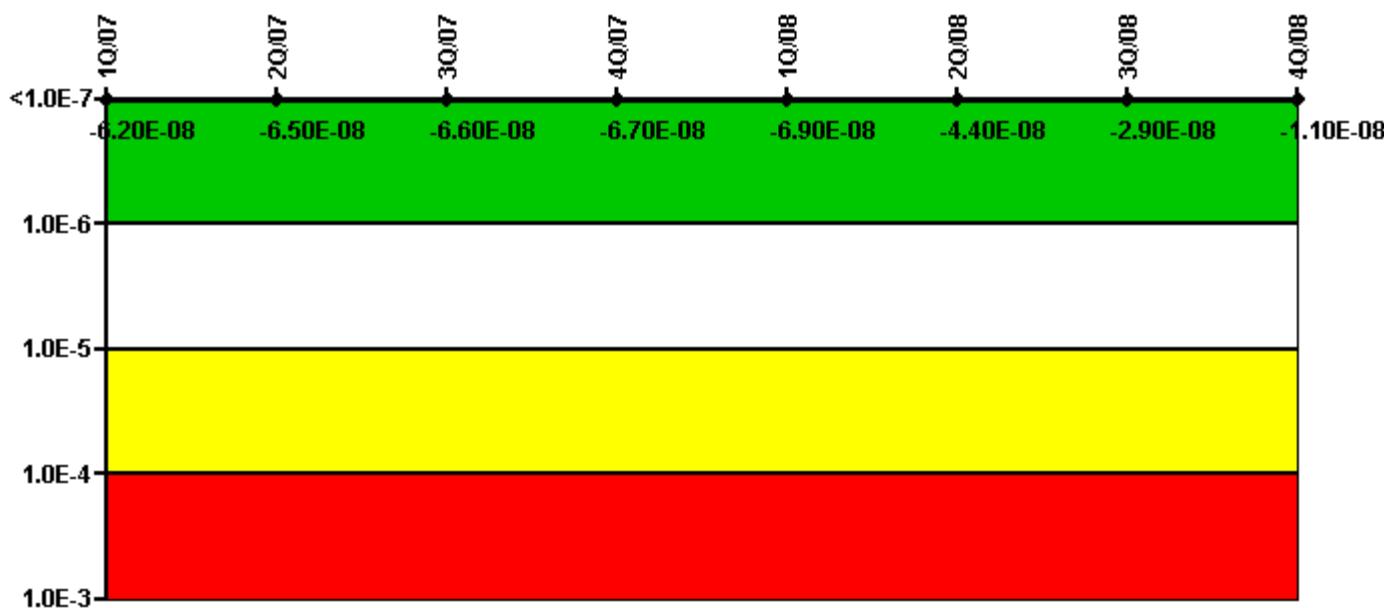
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	1.40E-08	1.40E-08	7.80E-09	2.70E-08	2.90E-08	4.00E-08	4.20E-08	1.80E-08
URI (ΔCDF)	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.20E-07	-1.30E-07	-1.30E-07	-1.20E-07
PLE	NO							
Indicator value	-1.16E-07	-1.16E-07	-1.22E-07	-1.03E-07	-9.10E-08	-9.00E-08	-8.80E-08	-1.02E-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

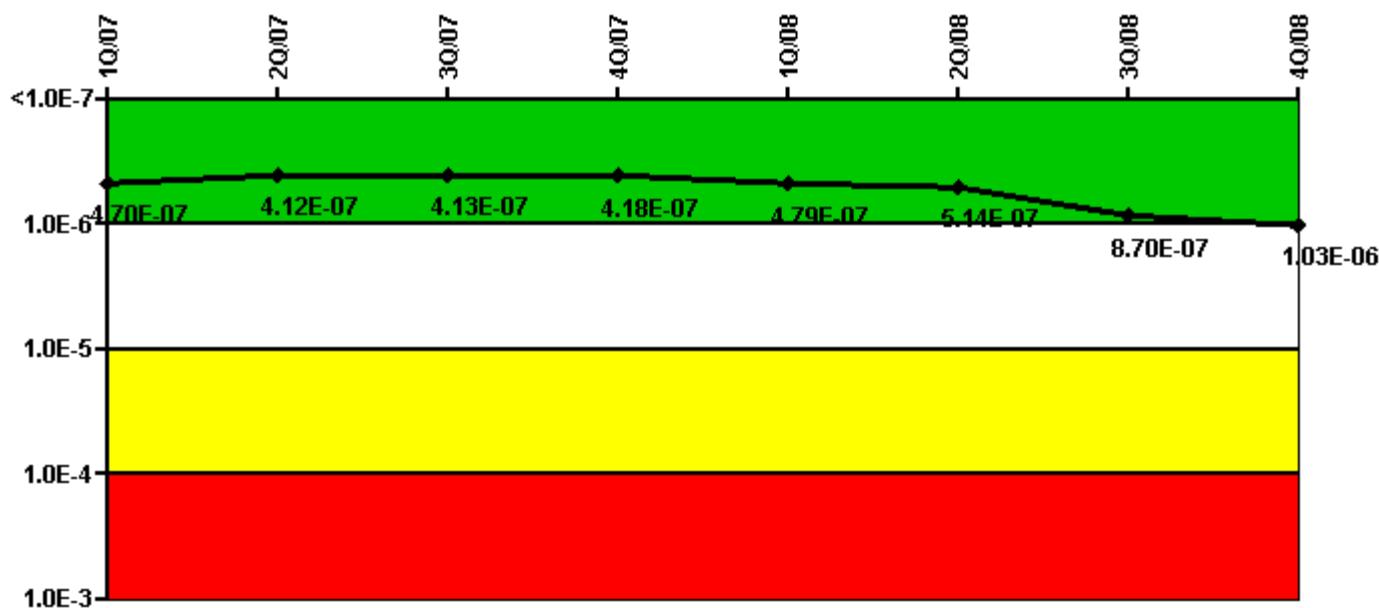
Mitigating Systems Performance Index, High Pressure Injection System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (Δ CDF)	3.00E-08	2.60E-08	2.70E-08	2.80E-08	2.00E-08	4.80E-08	6.10E-08	7.80E-08
URI (Δ CDF)	-9.20E-08	-9.10E-08	-9.30E-08	-9.50E-08	-8.90E-08	-9.20E-08	-9.00E-08	-8.90E-08
PLE	NO							
Indicator value	-6.20E-08	-6.50E-08	-6.60E-08	-6.70E-08	-6.90E-08	-4.40E-08	-2.90E-08	-1.10E-08

Licensee Comments:

4Q/08: Unavailable hours reported incorrectly for September 2008. Corrected hours input in November 2008. No indicator color change results from this change.

3Q/08: Unavailable hours reported incorrectly for September 2008. Corrected hours input in November 2008. No indicator color change results from this change.

Mitigating Systems Performance Index, Heat Removal System



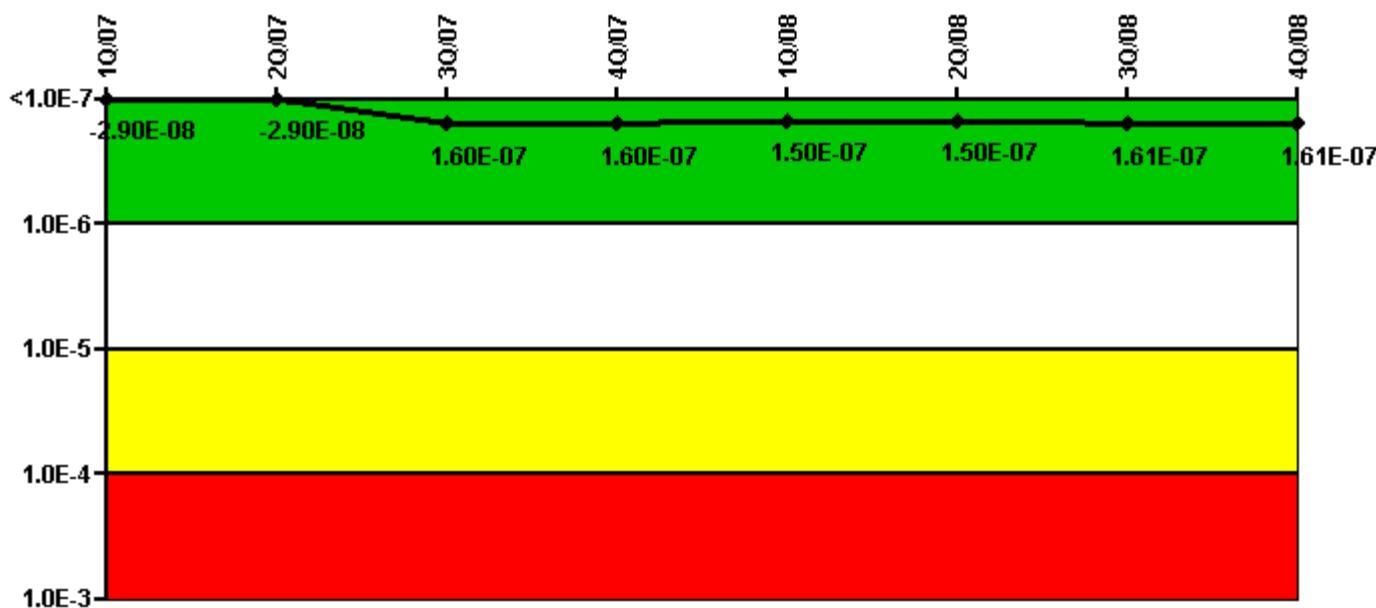
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	3.00E-08	3.20E-08	7.30E-08	6.80E-08	6.90E-08	9.40E-08	7.00E-08	6.90E-08
URI (ΔCDF)	4.40E-07	3.80E-07	3.40E-07	3.50E-07	4.10E-07	4.20E-07	8.00E-07	9.60E-07
PLE	NO							
Indicator value	4.70E-07	4.12E-07	4.13E-07	4.18E-07	4.79E-07	5.14E-07	8.70E-07	1.03E-06

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



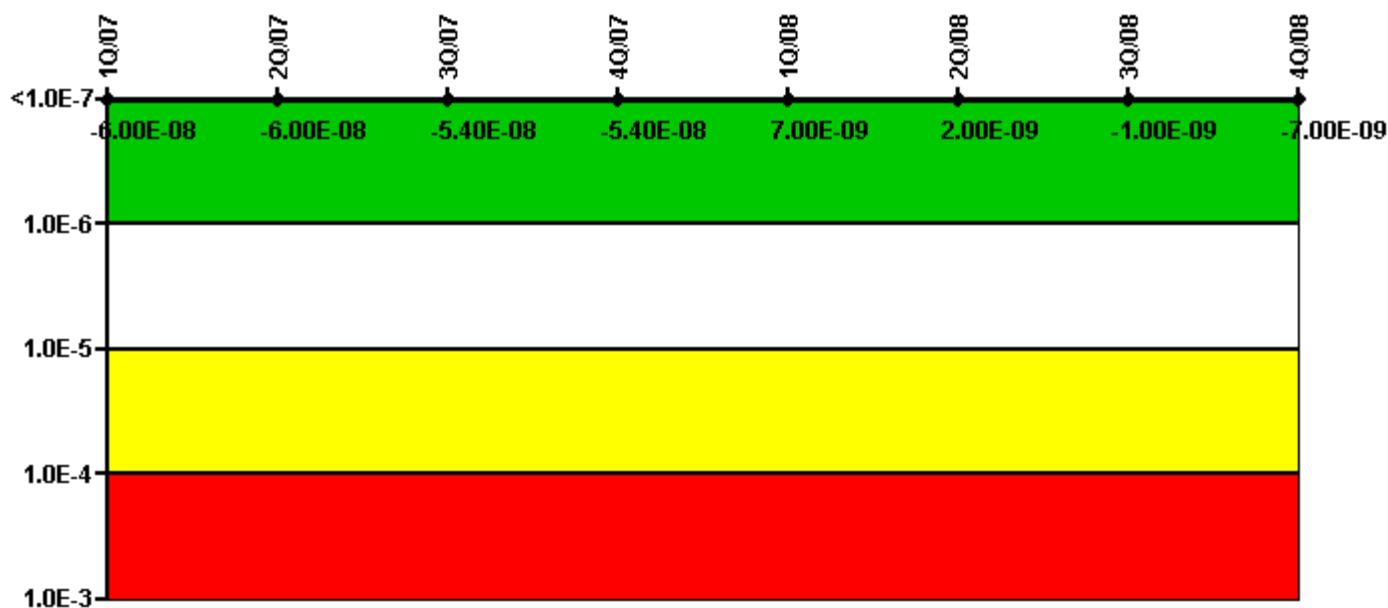
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (ΔCDF)	-2.40E-08	-2.40E-08	1.10E-07	1.10E-07	1.00E-07	1.00E-07	1.10E-07	1.10E-07
URI (ΔCDF)	-5.00E-09	-5.00E-09	5.00E-08	5.00E-08	5.00E-08	5.00E-08	5.10E-08	5.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-08	-2.90E-08	1.60E-07	1.60E-07	1.50E-07	1.50E-07	1.61E-07	1.61E-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

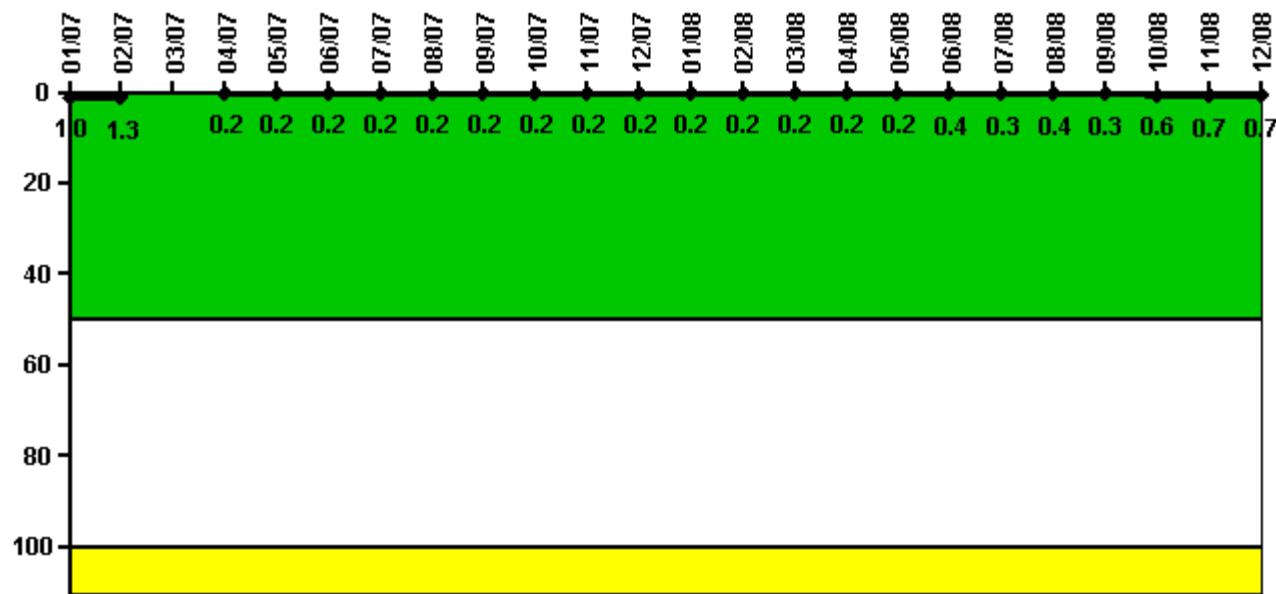
Mitigating Systems Performance Index, Cooling Water Systems	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (Δ CDF)	3.00E-08	3.00E-08	3.60E-08	3.60E-08	4.70E-08	4.30E-08	3.10E-08	2.60E-08
URI (Δ CDF)	-9.00E-08	-9.00E-08	-9.00E-08	-9.00E-08	-4.00E-08	-4.10E-08	-3.20E-08	-3.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.00E-08	-6.00E-08	-5.40E-08	-5.40E-08	7.00E-09	2.00E-09	-1.00E-09	-7.00E-09

Licensee Comments:

4Q/08: Change report due to Failure Report 1241 entered in EPIX on 12/18/2008 when the failure date was 9/12/2008. No indicator color change results from this change.

3Q/08: Change report due to Failure Report 1241 entered in EPIX on 12/18/2008 when the failure date was 9/12/2008. No indicator color change results from this change.

Reactor Coolant System Activity



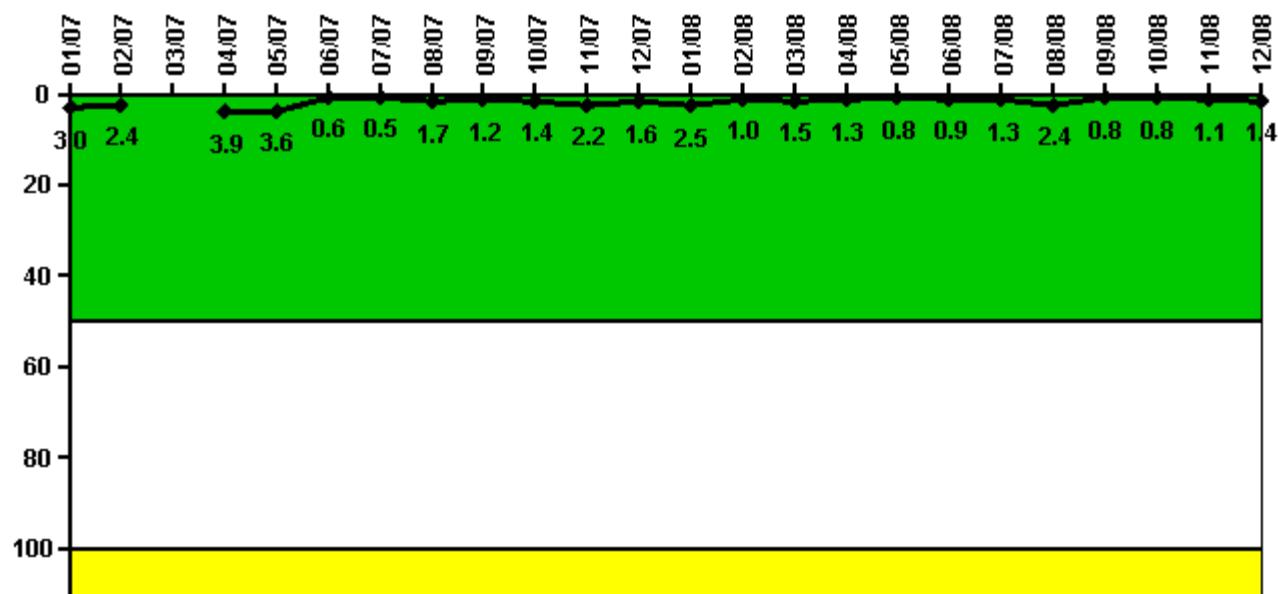
Thresholds: White > 50.0 Yellow > 100.0

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		0.009950	0.013400	N/A	0.001730	0.001650	0.001770	0.001940	0.002000	0.002210	0.002240	0.002230	0.002350
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		1.0	1.3	N/A	0.2								
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		0.001850	0.002210	0.002370	0.002100	0.002290	0.003820	0.003180	0.004380	0.003470	0.005590	0.007390	0.006710
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		0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.4	0.3	0.6	0.7	0.7

Licensee Comments: none

Reactor Coolant System Leakage



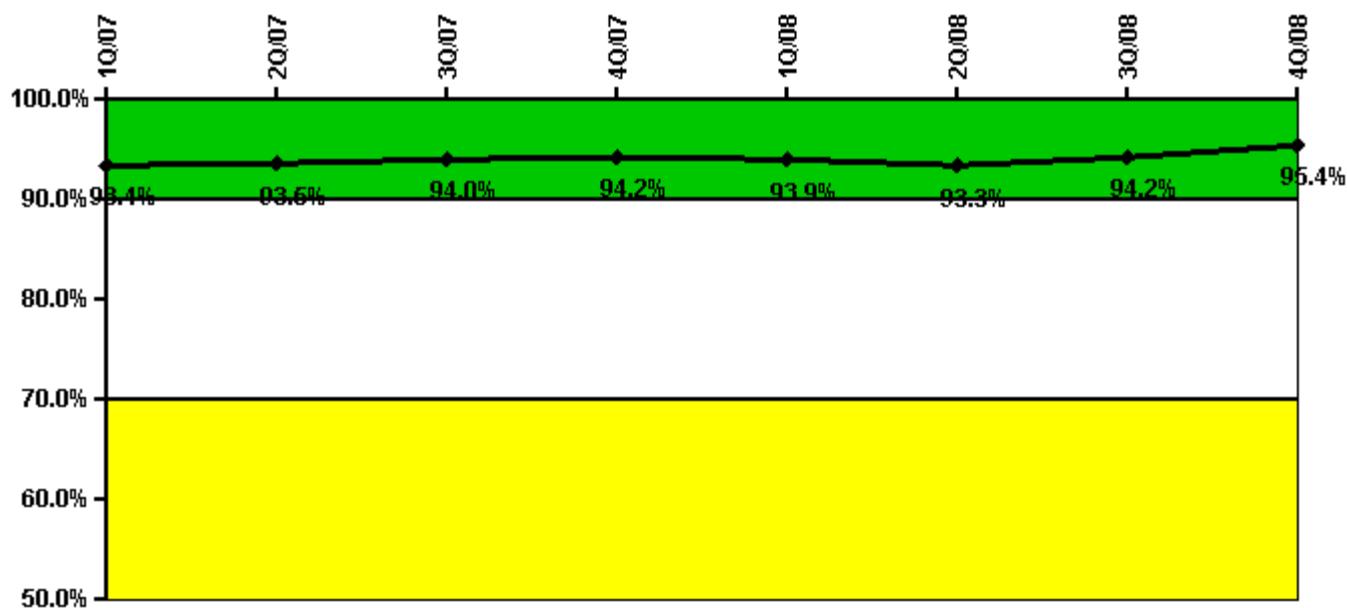
Thresholds: White > 50.0 Yellow > 100.0

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	0.297	0.241	N/A	0.390	0.360	0.060	0.050	0.170	0.120	0.140	0.218	0.160
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	3.0	2.4	N/A	3.9	3.6	0.6	0.5	1.7	1.2	1.4	2.2	1.6
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	0.250	0.100	0.150	0.130	0.080	0.090	0.130	0.240	0.080	0.080	0.110	0.140
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	2.5	1.0	1.5	1.3	0.8	0.9	1.3	2.4	0.8	0.8	1.1	1.4

Licensee Comments: none

Drill/Exercise Performance



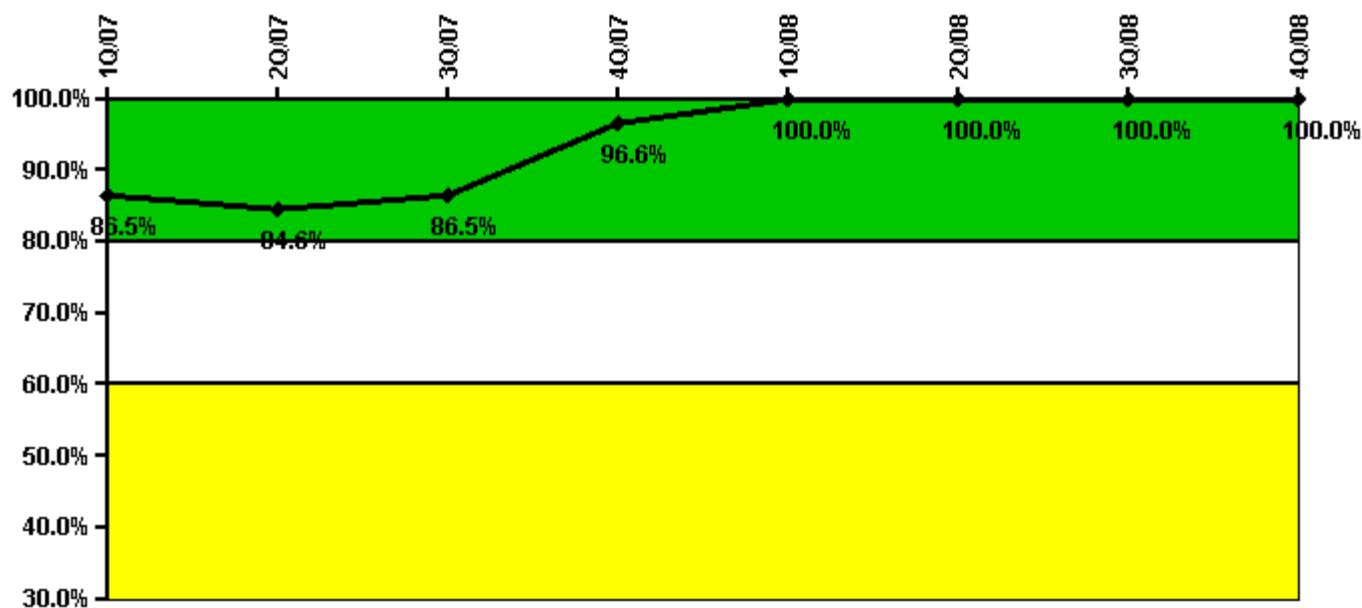
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful opportunities	3.0	21.0	36.0	69.0	4.0	26.0	40.0	52.0
Total opportunities	3.0	22.0	36.0	71.0	5.0	27.0	40.0	59.0
Indicator value	93.4%	93.5%	94.0%	94.2%	93.9%	93.3%	94.2%	95.4%

Licensee Comments: none

ERO Drill Participation



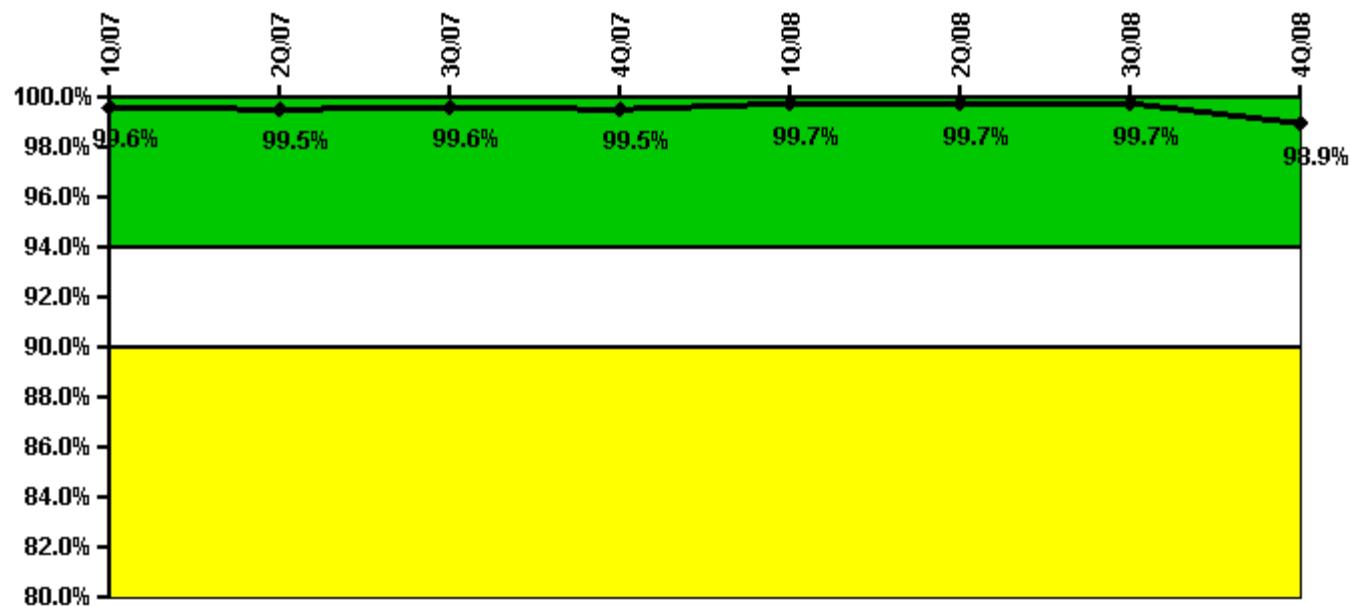
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Participating Key personnel	77.0	77.0	77.0	85.0	83.0	87.0	86.0	84.0
Total Key personnel	89.0	91.0	89.0	88.0	83.0	87.0	86.0	84.0
Indicator value	86.5%	84.6%	86.5%	96.6%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



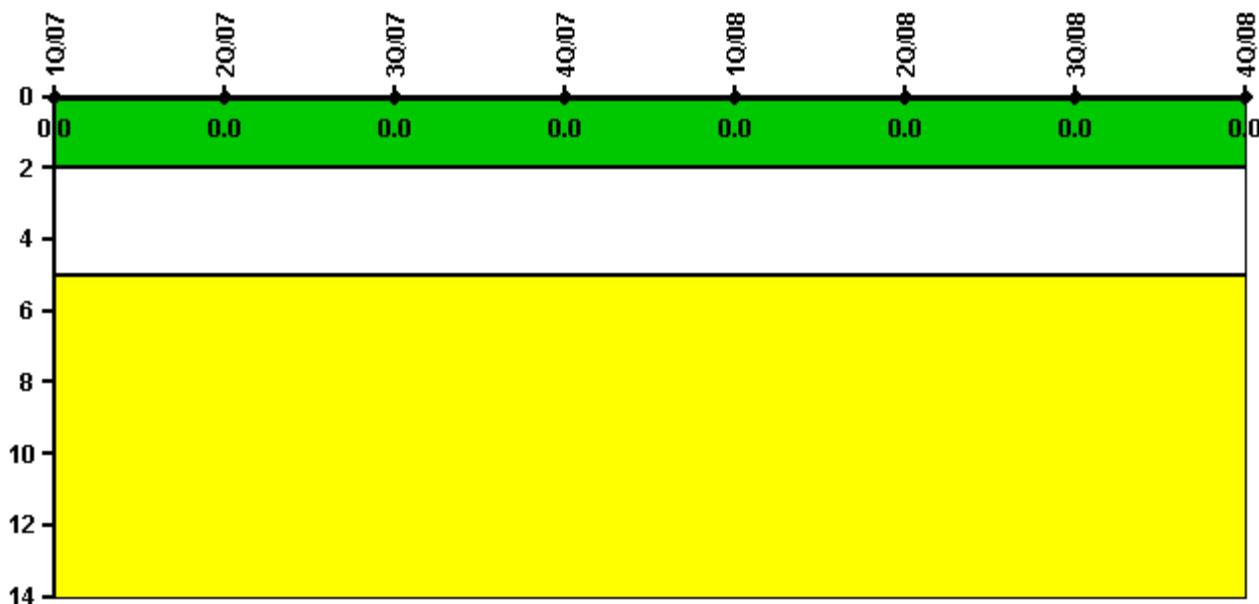
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful siren-tests	940	944	947	1019	947	946	946	916
Total sirens-tests	949	949	949	1022	949	949	949	949
Indicator value	99.6%	99.5%	99.6%	99.5%	99.7%	99.7%	99.7%	98.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



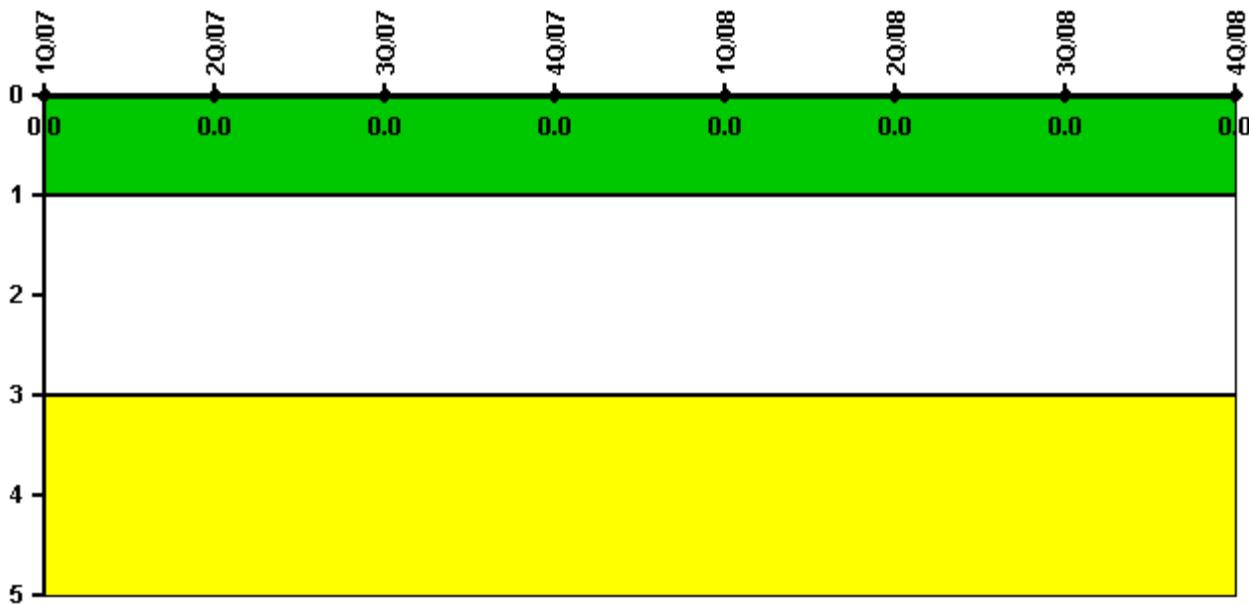
Thresholds: White > 2.0 Yellow > 5.0

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

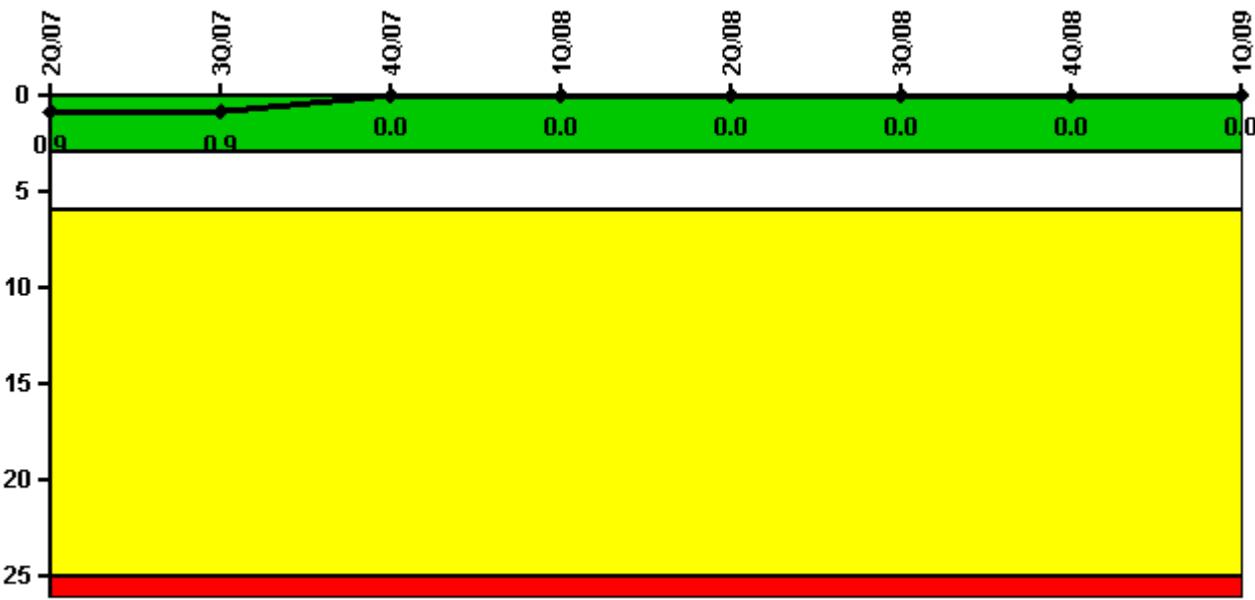
[Security](#) information not publicly available.

Calvert Cliffs 2

1Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



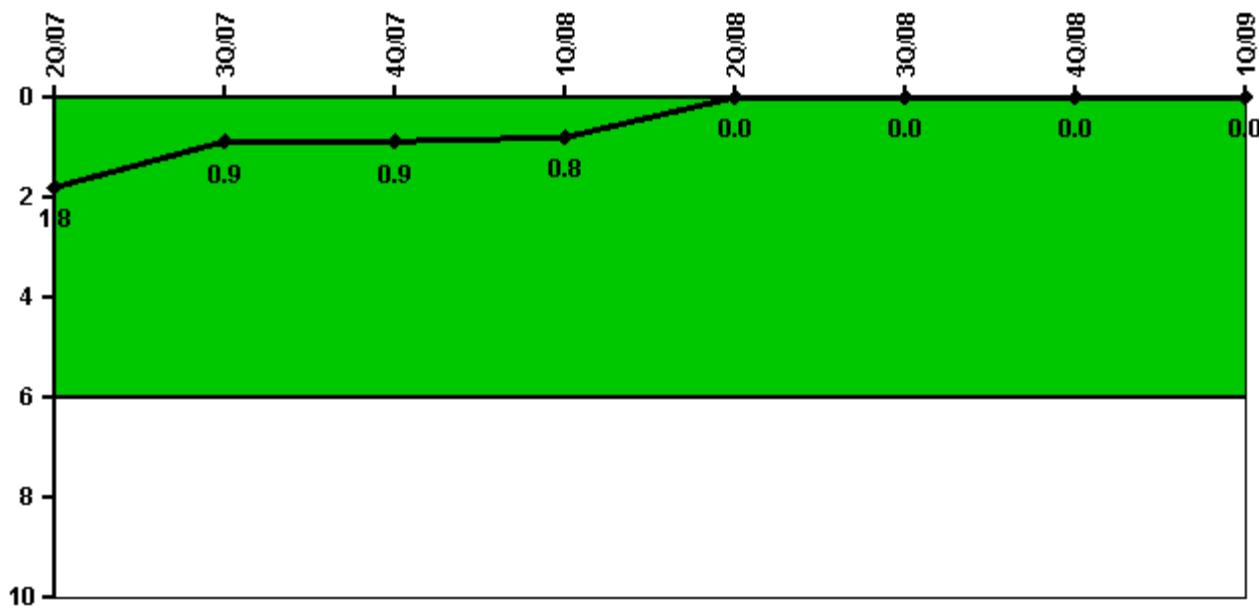
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	2162.4	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0	1657.0
Indicator value	0.9	0.9	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



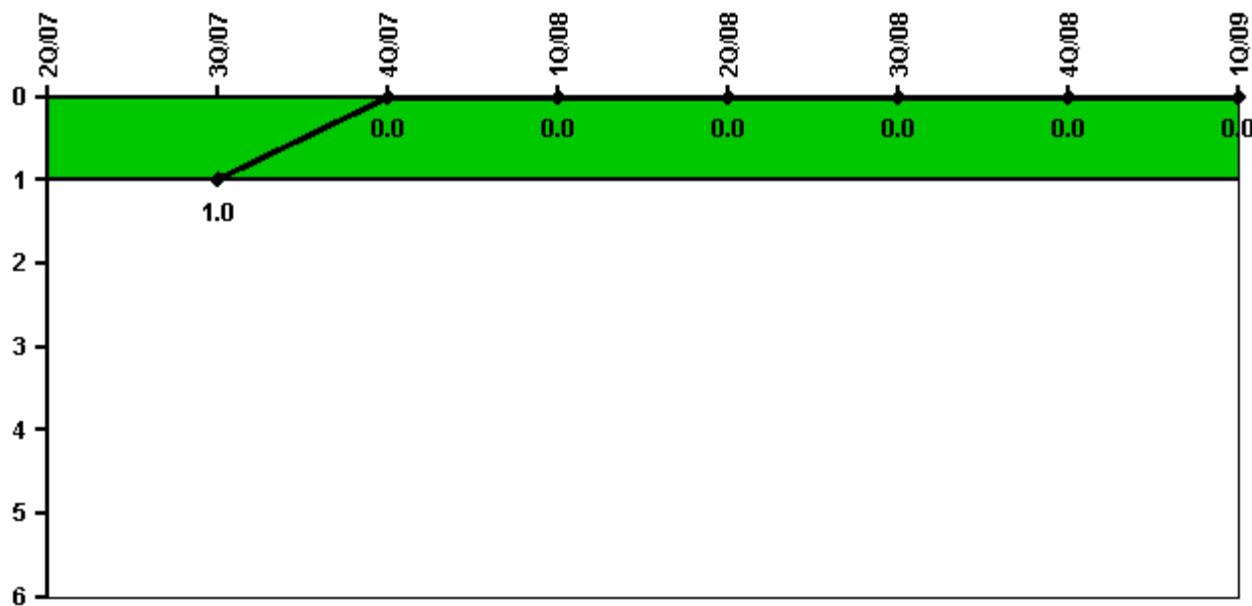
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2162.4	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0	1657.0
Indicator value	1.8	0.9	0.9	0.8	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



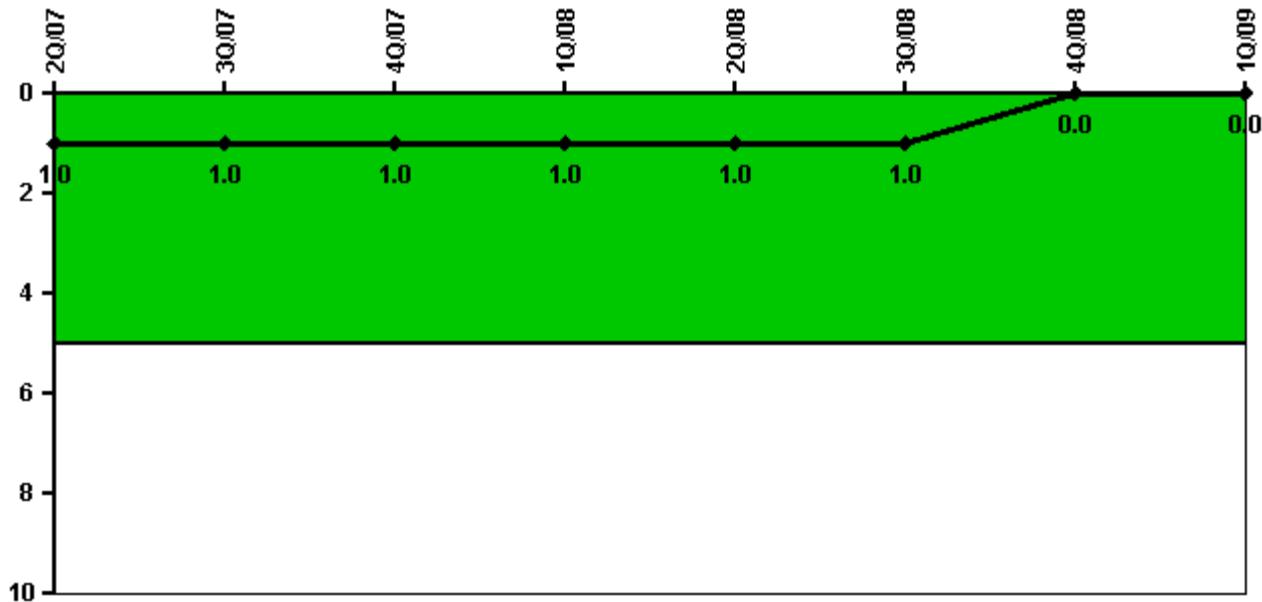
Thresholds: White > 1.0

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		1.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



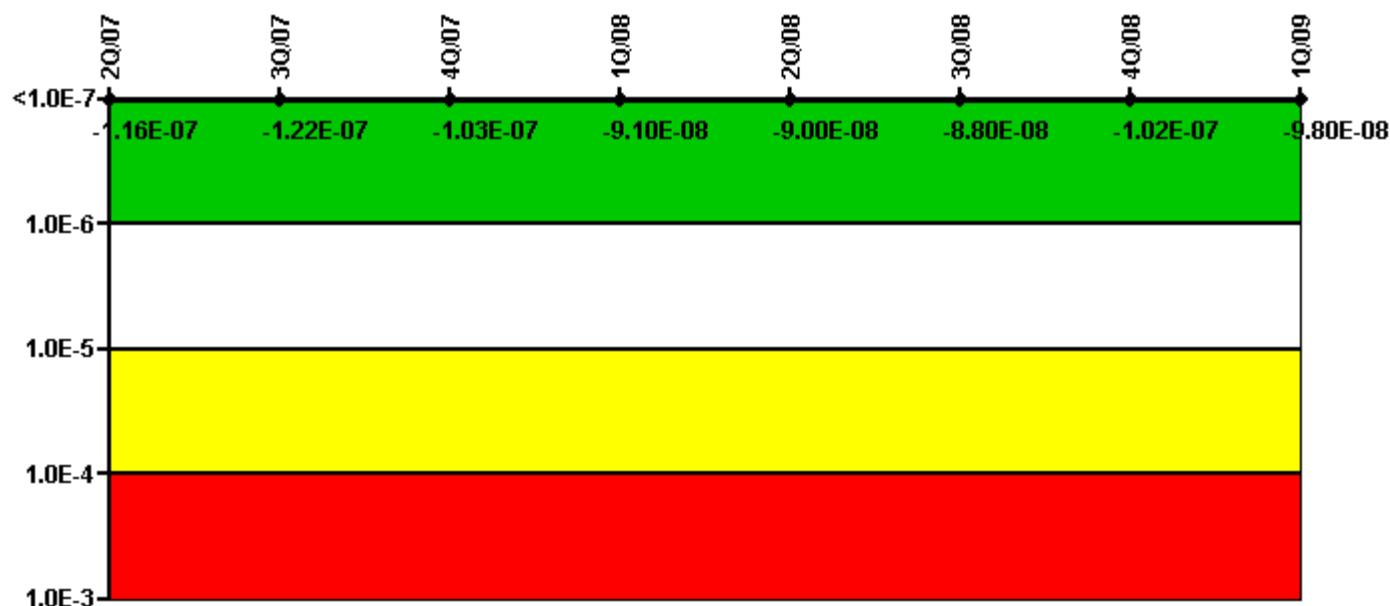
Thresholds: White > 5.0

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	1	0	0	0	0	0
Indicator value	1	1	1	1	1	1	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



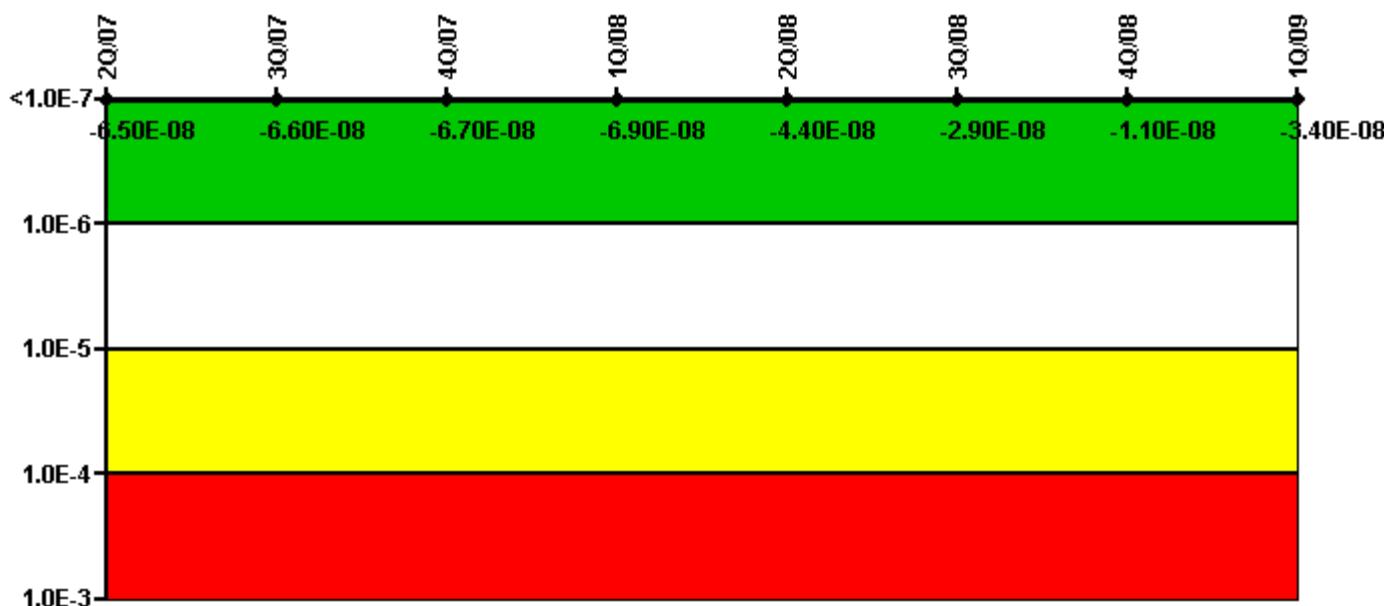
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	1.40E-08	7.80E-09	2.70E-08	2.90E-08	4.00E-08	4.20E-08	1.80E-08	2.20E-08
URI (ΔCDF)	-1.30E-07	-1.30E-07	-1.30E-07	-1.20E-07	-1.30E-07	-1.30E-07	-1.20E-07	-1.20E-07
PLE	NO							
Indicator value	-1.16E-07	-1.22E-07	-1.03E-07	-9.10E-08	-9.00E-08	-8.80E-08	-1.02E-07	-9.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



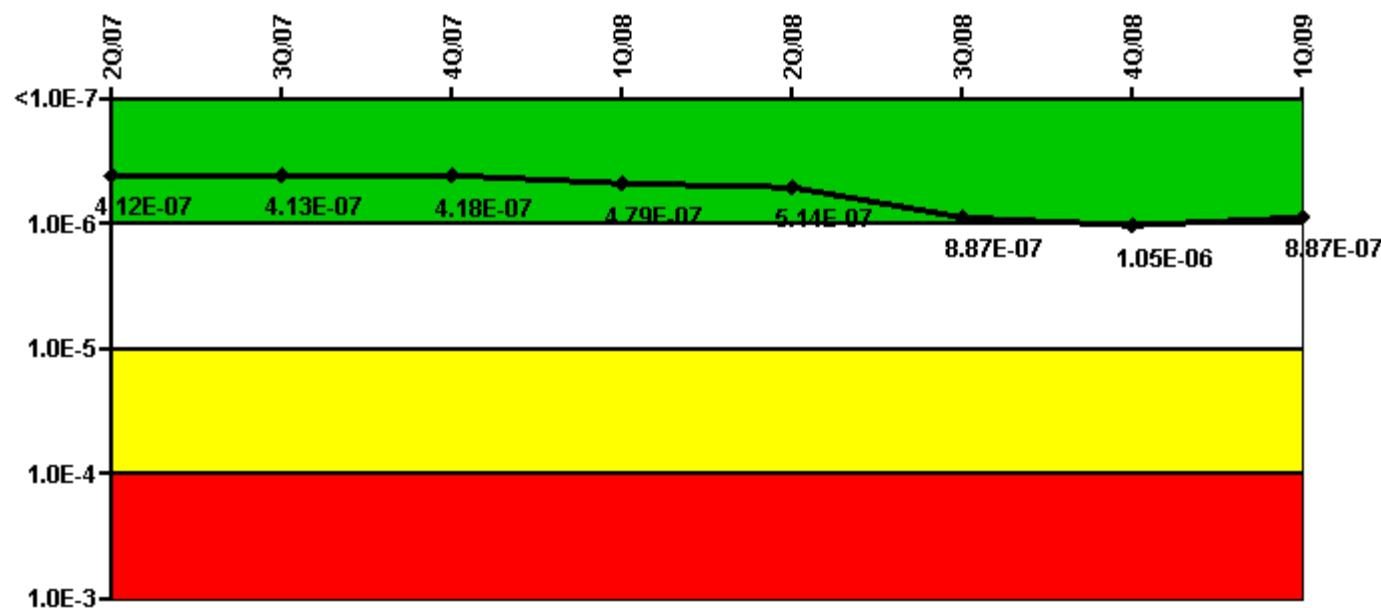
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (Δ CDF)	2.60E-08	2.70E-08	2.80E-08	2.00E-08	4.80E-08	6.10E-08	7.80E-08	6.00E-08
URI (Δ CDF)	-9.10E-08	-9.30E-08	-9.50E-08	-8.90E-08	-9.20E-08	-9.00E-08	-8.90E-08	-9.40E-08
PLE	NO							
Indicator value	-6.50E-08	-6.60E-08	-6.70E-08	-6.90E-08	-4.40E-08	-2.90E-08	-1.10E-08	-3.40E-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)	3.20E-08	7.30E-08	6.80E-08	6.90E-08	9.40E-08	8.70E-08	8.60E-08	4.70E-08
URI (ΔCDF)	3.80E-07	3.40E-07	3.50E-07	4.10E-07	4.20E-07	8.00E-07	9.60E-07	8.40E-07
PLE	NO							
Indicator value	4.12E-07	4.13E-07	4.18E-07	4.79E-07	5.14E-07	8.87E-07	1.05E-06	8.87E-07

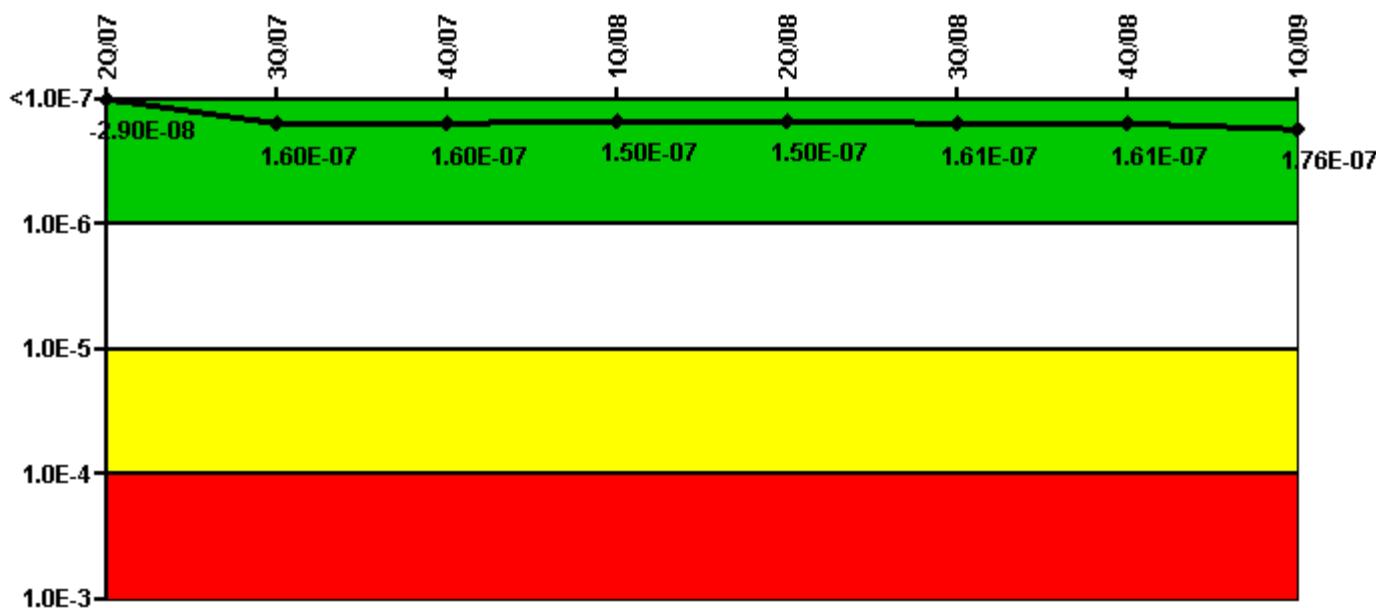
Licensee Comments:

1Q/09: Changed PRA Parameter(s).

4Q/08: Change in unavailable hours for 23 AFW pump because it was determined that the motor driven AFW flow paths to both Steam Generators were simultaneously isolated for routine maintenance, this effectively removed 23 AFW pump from service. Previous performance of this maintenance was performed on one flow path at a time, which did not remove the pump from service.

3Q/08: Risk Cap Invoked. Change in unavailable hours for 23 AFW pump because it was determined that the motor driven AFW flow paths to both Steam Generators were simultaneously isolated for routine maintenance, this effectively removed 23 AFW pump from service. Previous performance of this maintenance was performed on one flow path at a time, which did not remove the pump from service.

Mitigating Systems Performance Index, Residual Heat Removal System



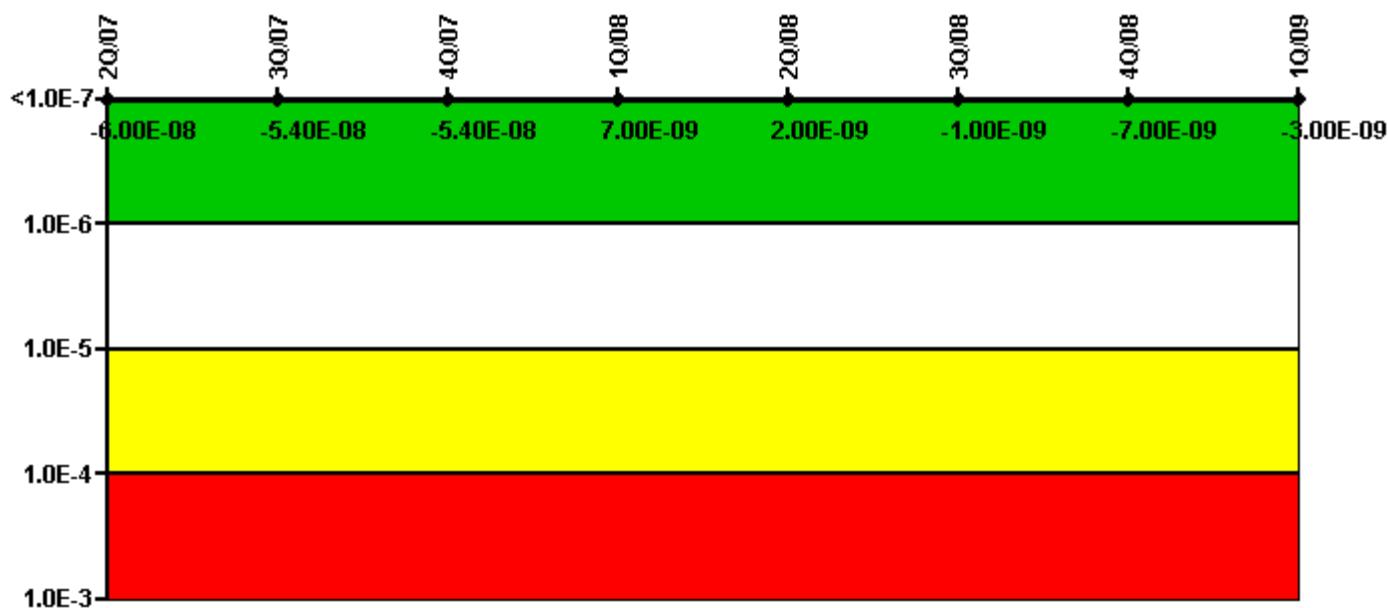
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (ΔCDF)	-2.40E-08	1.10E-07	1.10E-07	1.00E-07	1.00E-07	1.10E-07	1.10E-07	1.20E-07
URI (ΔCDF)	-5.00E-09	5.00E-08	5.00E-08	5.00E-08	5.00E-08	5.10E-08	5.10E-08	5.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-08	1.60E-07	1.60E-07	1.50E-07	1.50E-07	1.61E-07	1.61E-07	1.76E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



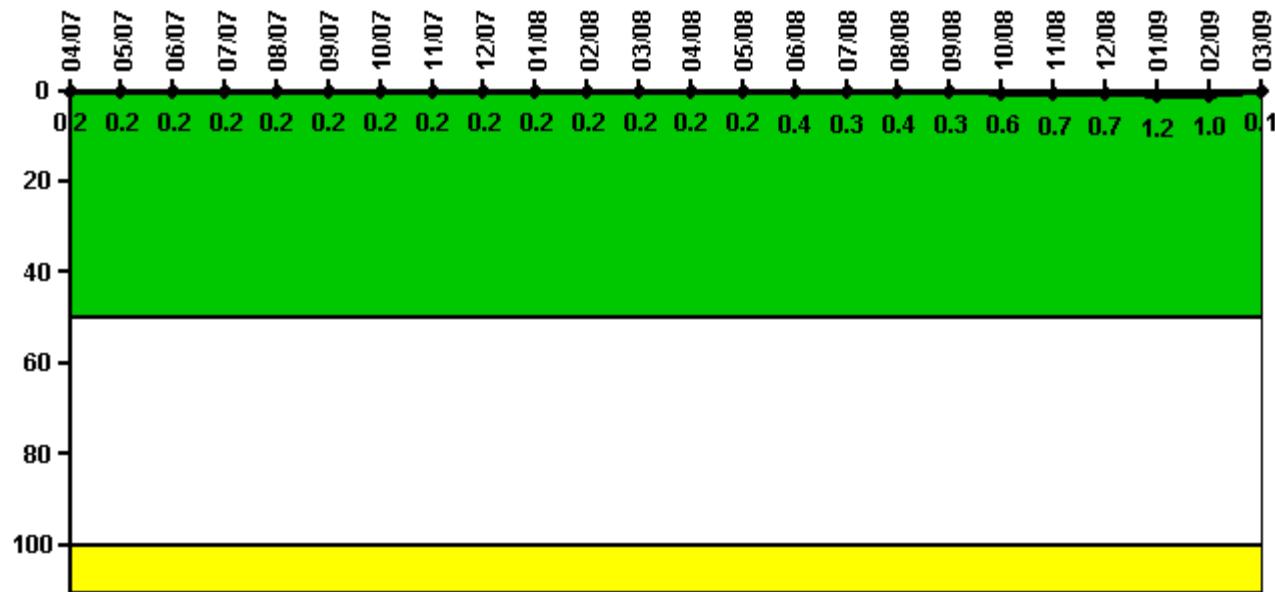
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	3.00E-08	3.60E-08	3.60E-08	4.70E-08	4.30E-08	3.10E-08	2.60E-08	3.10E-08
URI (Δ CDF)	-9.00E-08	-9.00E-08	-9.00E-08	-4.00E-08	-4.10E-08	-3.20E-08	-3.30E-08	-3.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.00E-08	-5.40E-08	-5.40E-08	7.00E-09	2.00E-09	-1.00E-09	-7.00E-09	-3.00E-09

Licensee Comments: none

Reactor Coolant System Activity



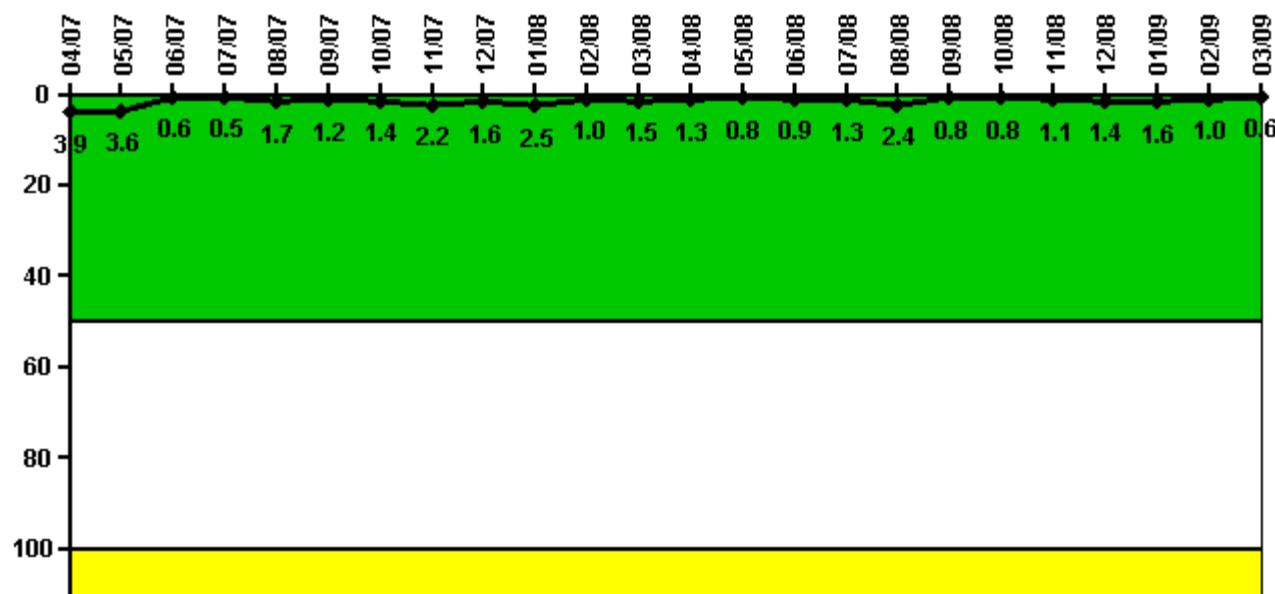
Thresholds: White > 50.0 Yellow > 100.0

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	0.001730	0.001650	0.001770	0.001940	0.002000	0.002210	0.002240	0.002230	0.002350	0.001850	0.002210	0.002370
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	0.2											
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	0.002100	0.002290	0.003820	0.003180	0.004380	0.003470	0.005590	0.007390	0.006710	0.012200	0.010200	0.001360
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	0.2	0.2	0.4	0.3	0.4	0.3	0.6	0.7	0.7	1.2	1.0	0.1

Licensee Comments: none

Reactor Coolant System Leakage



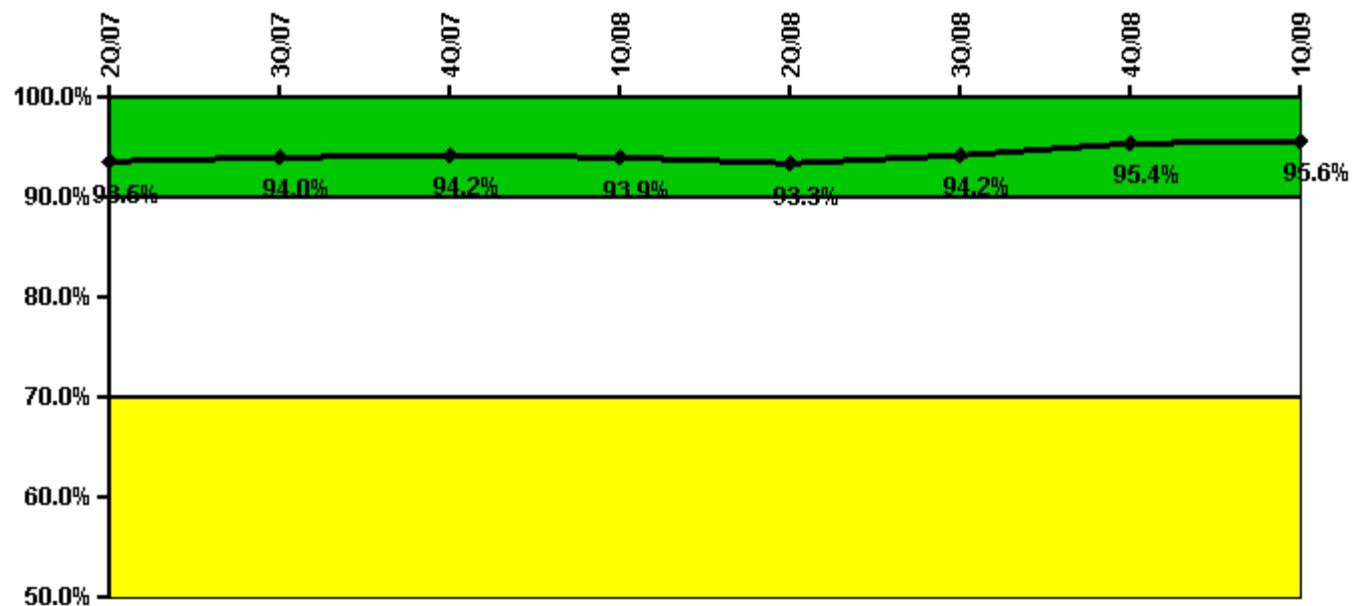
Thresholds: White > 50.0 Yellow > 100.0

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	0.390	0.360	0.060	0.050	0.170	0.120	0.140	0.218	0.160	0.250	0.100	0.150
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	3.9	3.6	0.6	0.5	1.7	1.2	1.4	2.2	1.6	2.5	1.0	1.5
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	0.130	0.080	0.090	0.130	0.240	0.080	0.080	0.110	0.140	0.160	0.100	0.060
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	1.3	0.8	0.9	1.3	2.4	0.8	0.8	1.1	1.4	1.6	1.0	0.6

Licensee Comments: none

Drill/Exercise Performance



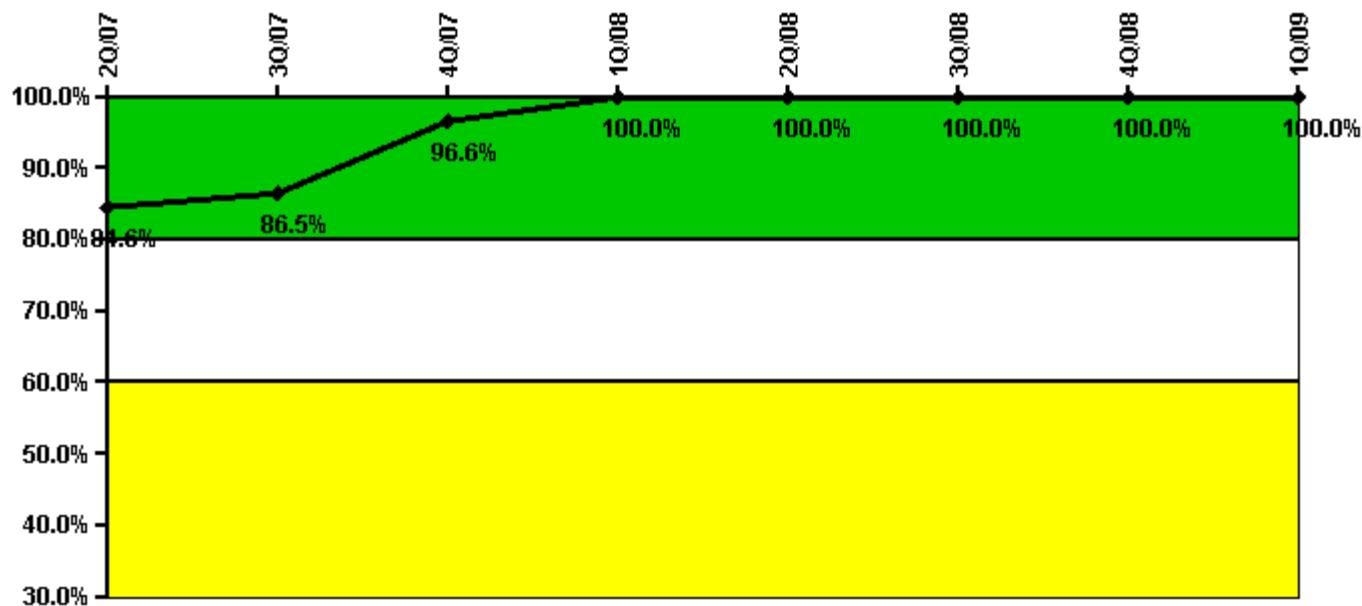
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful opportunities	21.0	36.0	69.0	4.0	26.0	40.0	52.0	10.0
Total opportunities	22.0	36.0	71.0	5.0	27.0	40.0	59.0	10.0
Indicator value	93.5%	94.0%	94.2%	93.9%	93.3%	94.2%	95.4%	95.6%

Licensee Comments: none

ERO Drill Participation



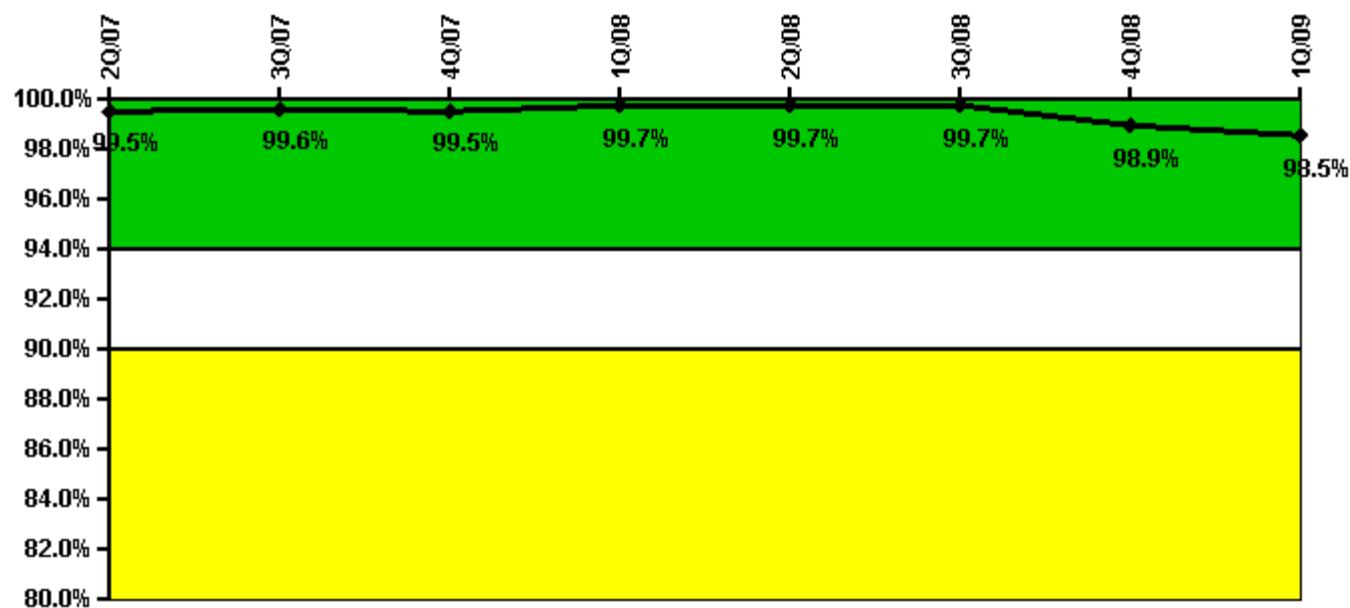
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Participating Key personnel	77.0	77.0	85.0	83.0	87.0	86.0	84.0	88.0
Total Key personnel	91.0	89.0	88.0	83.0	87.0	86.0	84.0	88.0
Indicator value	84.6%	86.5%	96.6%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



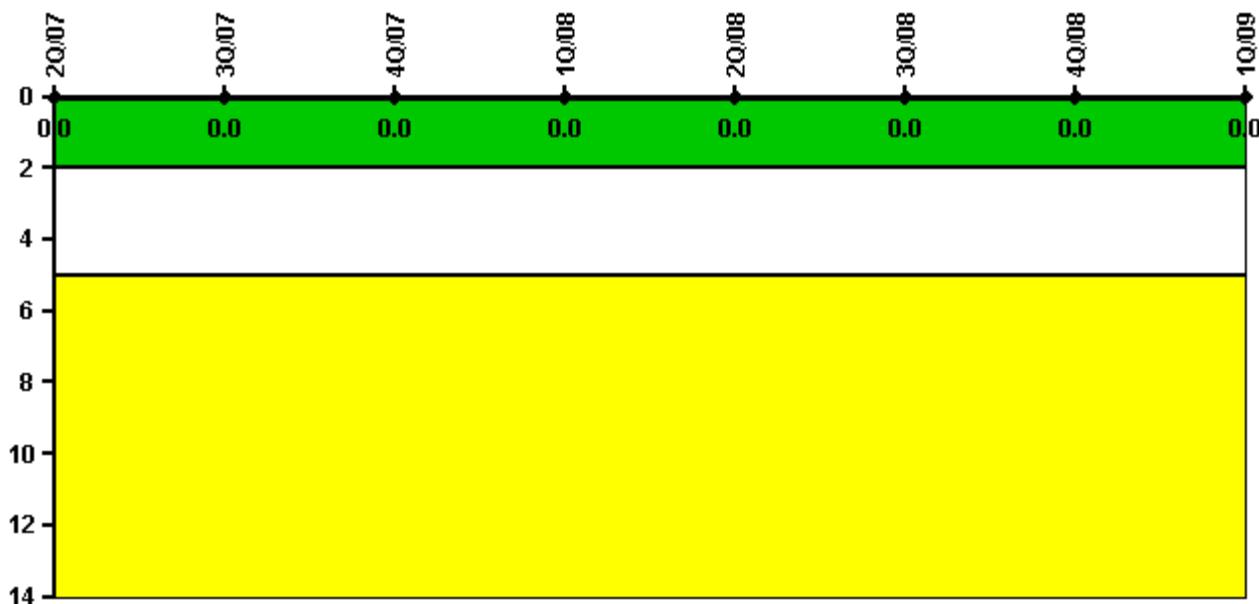
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful siren-tests	944	947	1019	947	946	946	916	932
Total sirens-tests	949	949	1022	949	949	949	949	949
Indicator value	99.5%	99.6%	99.5%	99.7%	99.7%	99.7%	98.9%	98.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness



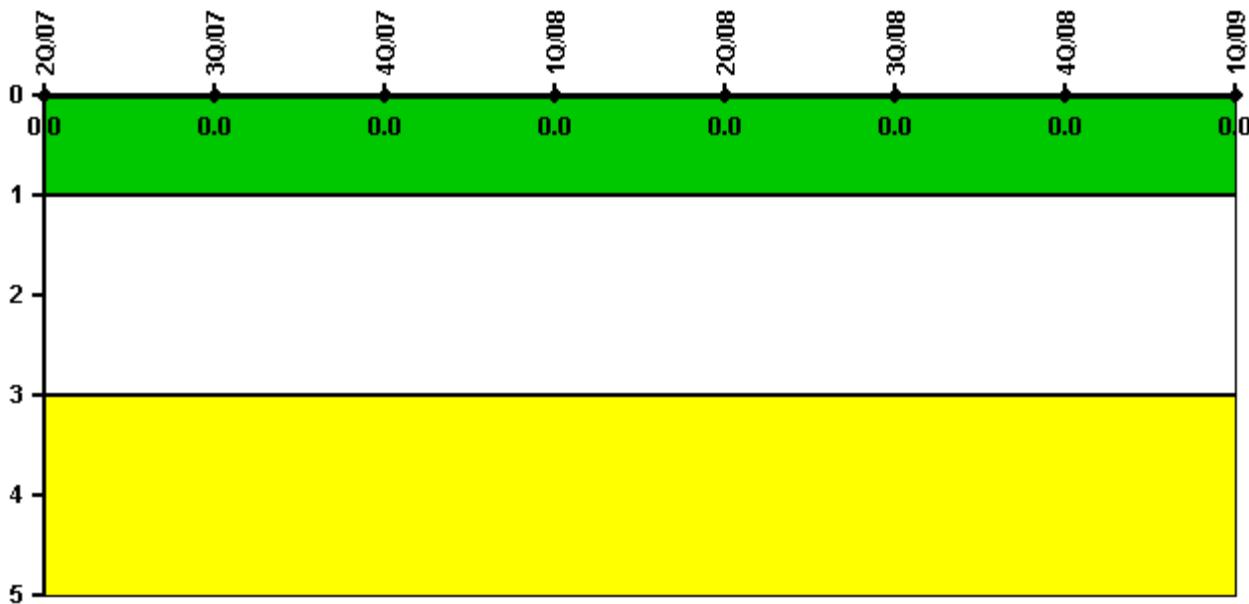
Thresholds: White > 2.0 Yellow > 5.0

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](#)

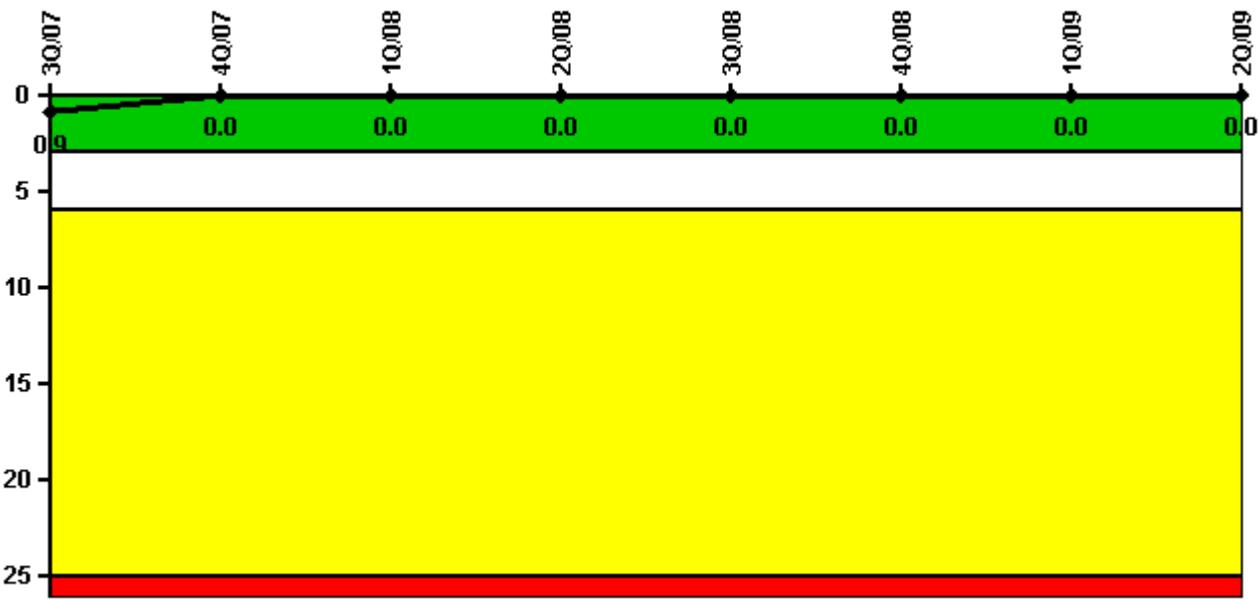
Last Modified: May 1, 2009

Calvert Cliffs 2

2Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



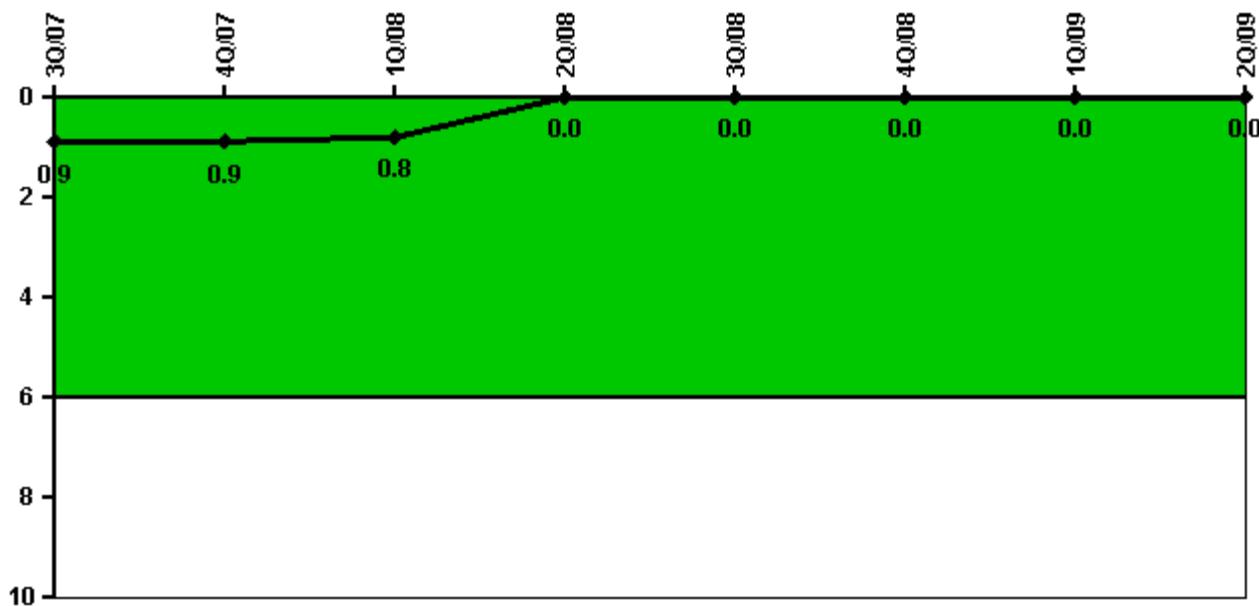
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0	1657.0	2184.0
Indicator value	0.9	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



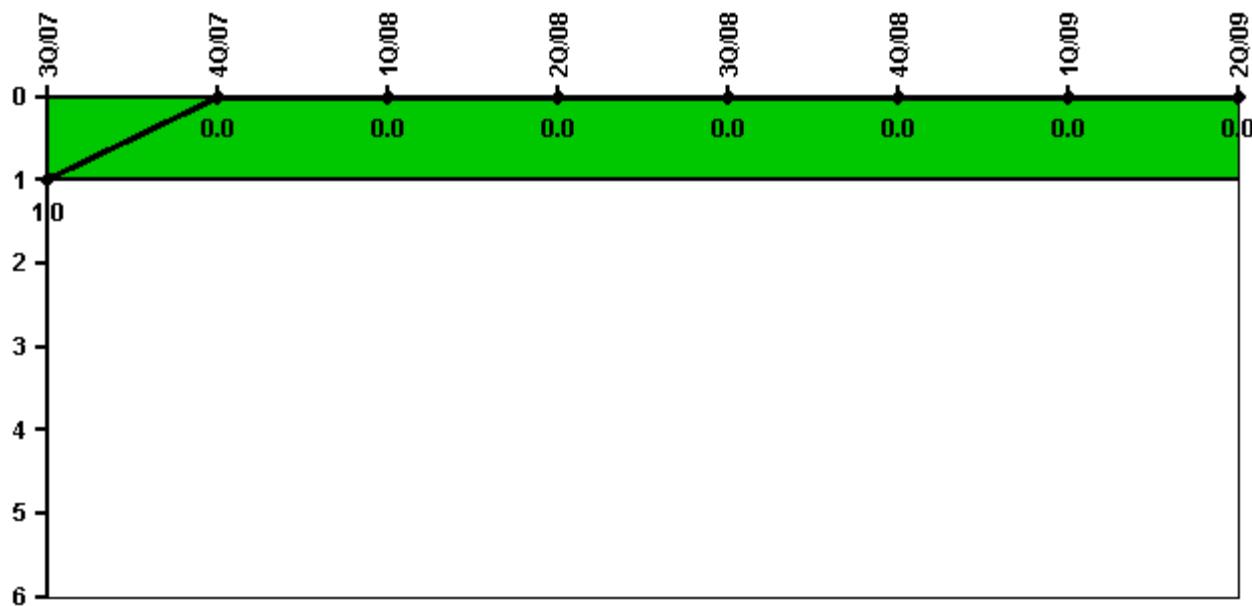
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0	1657.0	2184.0
Indicator value	0.9	0.9	0.8	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



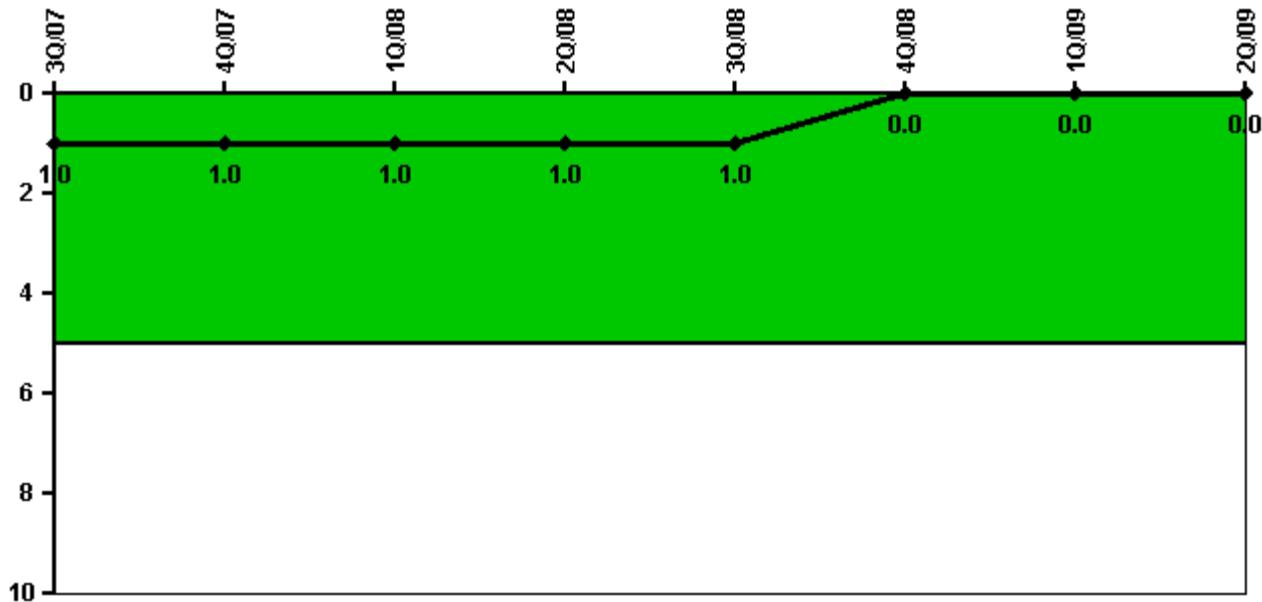
Thresholds: White > 1.0

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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



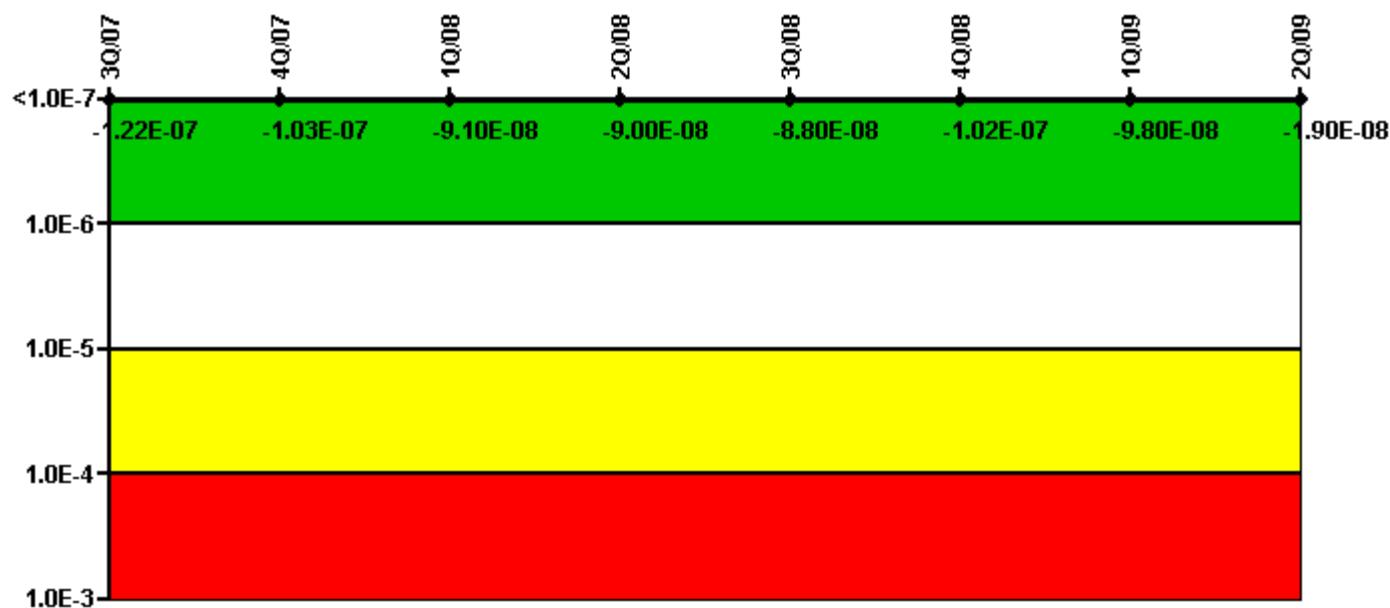
Thresholds: White > 5.0

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	1	0	0	0	0	0	0
Indicator value	1	1	1	1	1	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



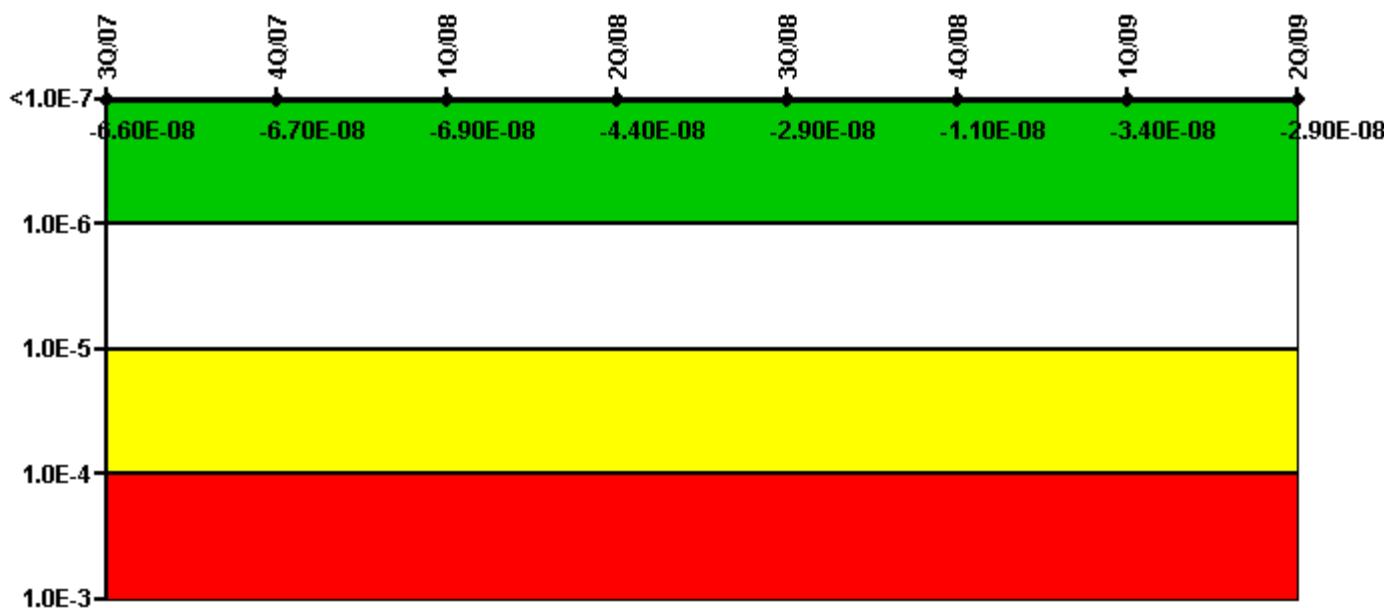
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	7.80E-09	2.70E-08	2.90E-08	4.00E-08	4.20E-08	1.80E-08	2.20E-08	5.50E-08
URI (ΔCDF)	-1.30E-07	-1.30E-07	-1.20E-07	-1.30E-07	-1.30E-07	-1.20E-07	-1.20E-07	-7.40E-08
PLE	NO							
Indicator value	-1.22E-07	-1.03E-07	-9.10E-08	-9.00E-08	-8.80E-08	-1.02E-07	-9.80E-08	-1.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



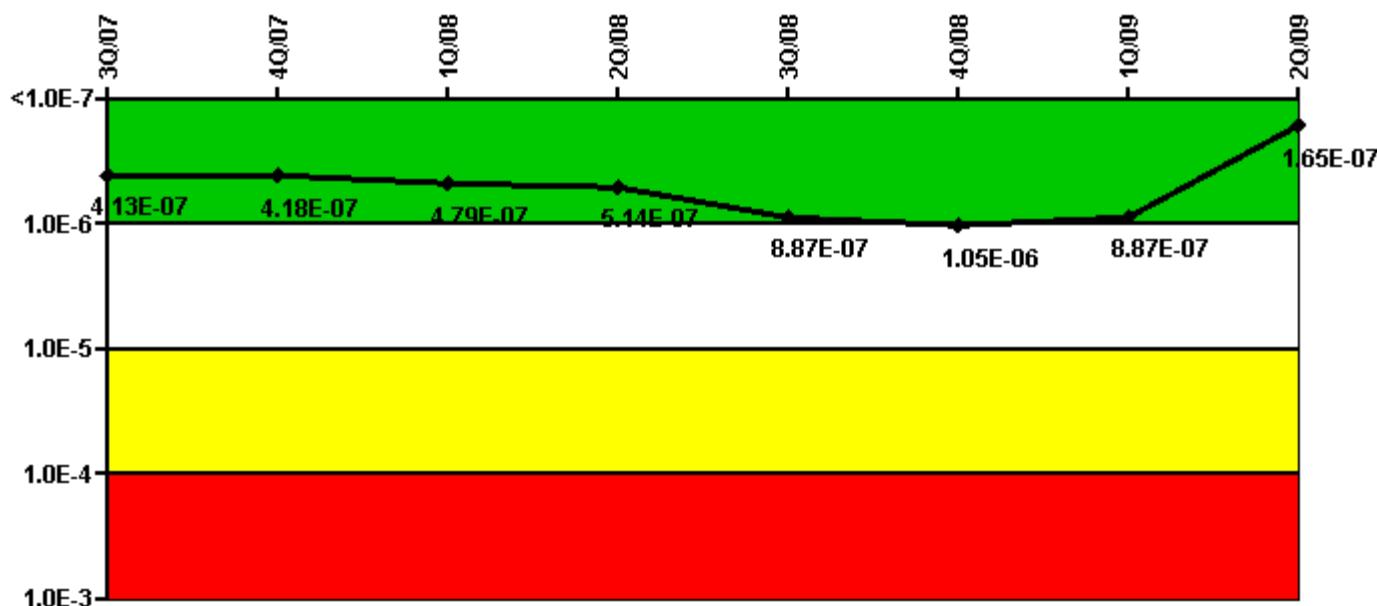
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (Δ CDF)	2.70E-08	2.80E-08	2.00E-08	4.80E-08	6.10E-08	7.80E-08	6.00E-08	4.60E-08
URI (Δ CDF)	-9.30E-08	-9.50E-08	-8.90E-08	-9.20E-08	-9.00E-08	-8.90E-08	-9.40E-08	-7.50E-08
PLE	NO							
Indicator value	-6.60E-08	-6.70E-08	-6.90E-08	-4.40E-08	-2.90E-08	-1.10E-08	-3.40E-08	-2.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



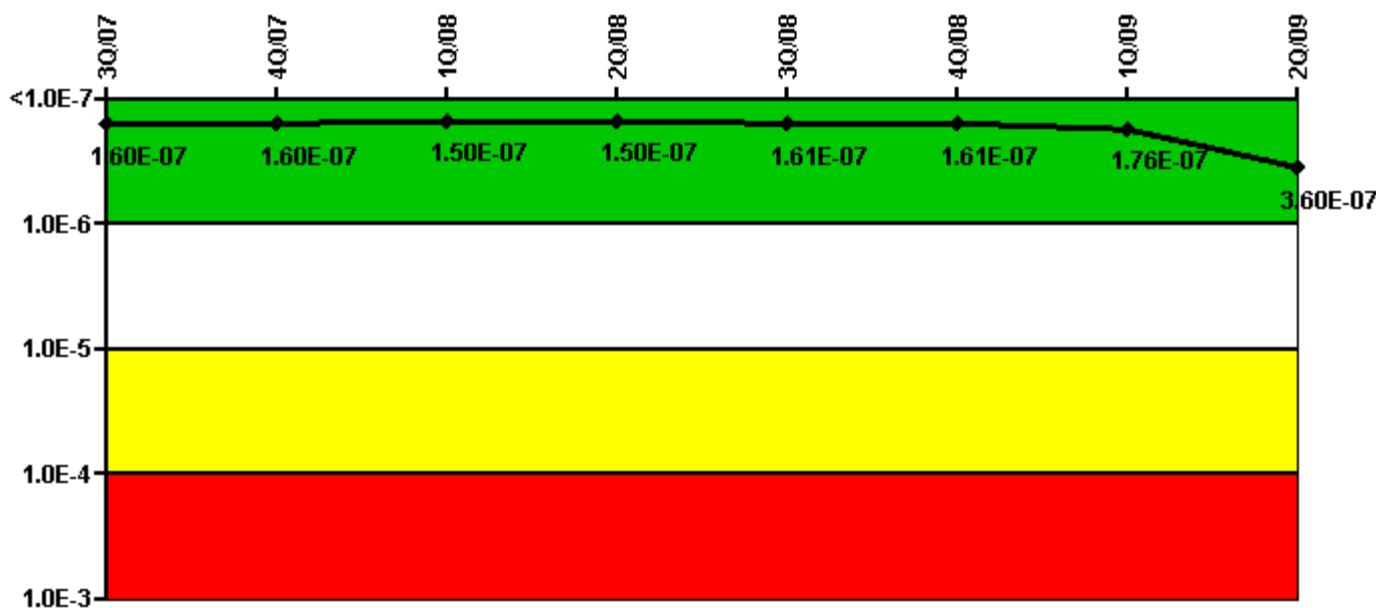
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	7.30E-08	6.80E-08	6.90E-08	9.40E-08	8.70E-08	8.60E-08	4.70E-08	4.90E-09
URI (ΔCDF)	3.40E-07	3.50E-07	4.10E-07	4.20E-07	8.00E-07	9.60E-07	8.40E-07	1.60E-07
PLE	NO							
Indicator value	4.13E-07	4.18E-07	4.79E-07	5.14E-07	8.87E-07	1.05E-06	8.87E-07	1.65E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



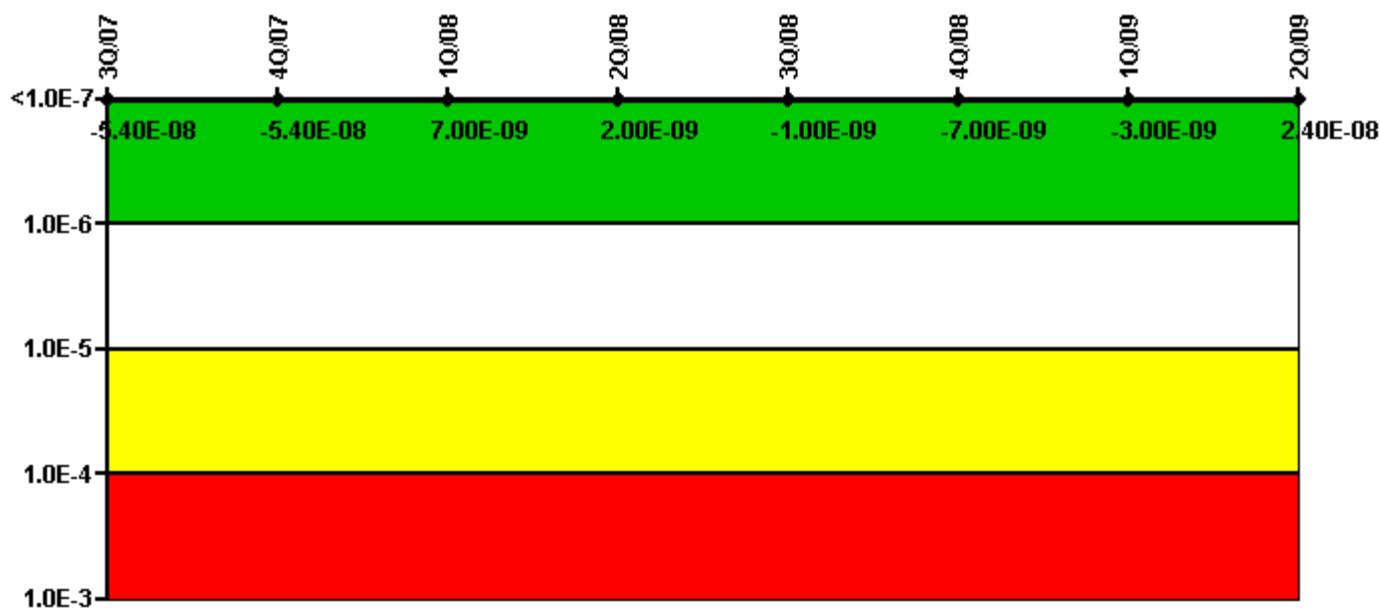
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	1.10E-07	1.10E-07	1.00E-07	1.00E-07	1.10E-07	1.10E-07	1.20E-07	2.40E-07
URI (ΔCDF)	5.00E-08	5.00E-08	5.00E-08	5.00E-08	5.10E-08	5.10E-08	5.60E-08	1.20E-07
PLE	NO							
Indicator value	1.60E-07	1.60E-07	1.50E-07	1.50E-07	1.61E-07	1.61E-07	1.76E-07	3.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



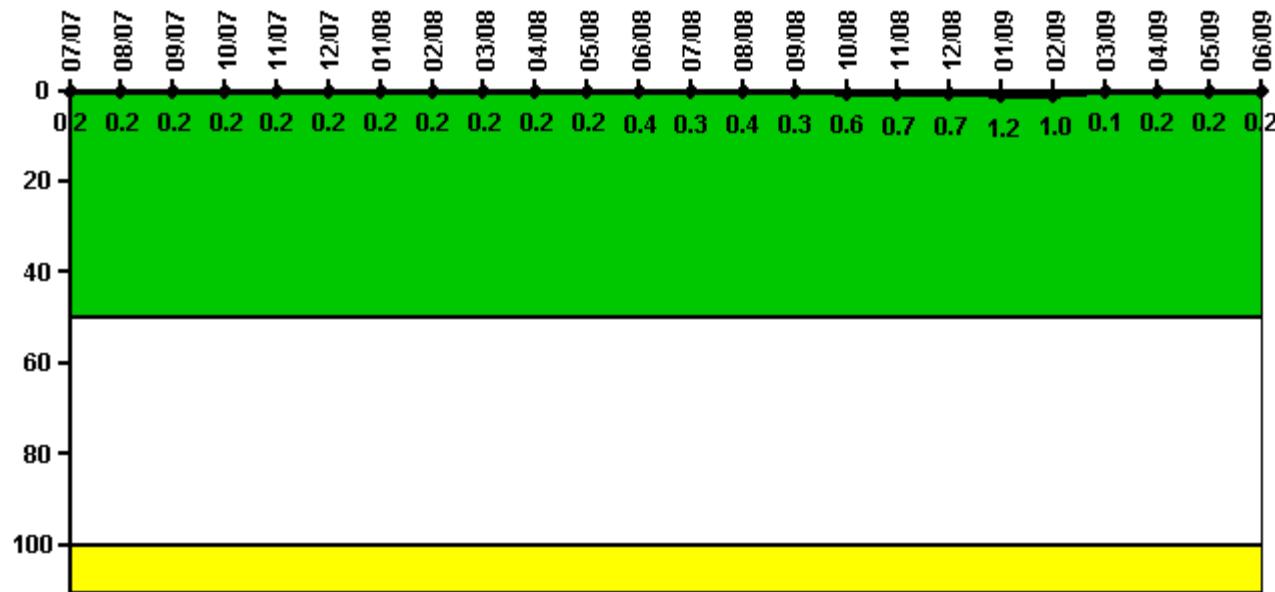
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	3.60E-08	3.60E-08	4.70E-08	4.30E-08	3.10E-08	2.60E-08	3.10E-08	4.20E-08
URI (Δ CDF)	-9.00E-08	-9.00E-08	-4.00E-08	-4.10E-08	-3.20E-08	-3.30E-08	-3.40E-08	-1.80E-08
PLE	NO							
Indicator value	-5.40E-08	-5.40E-08	7.00E-09	2.00E-09	-1.00E-09	-7.00E-09	-3.00E-09	2.40E-08

Licensee Comments: none

Reactor Coolant System Activity



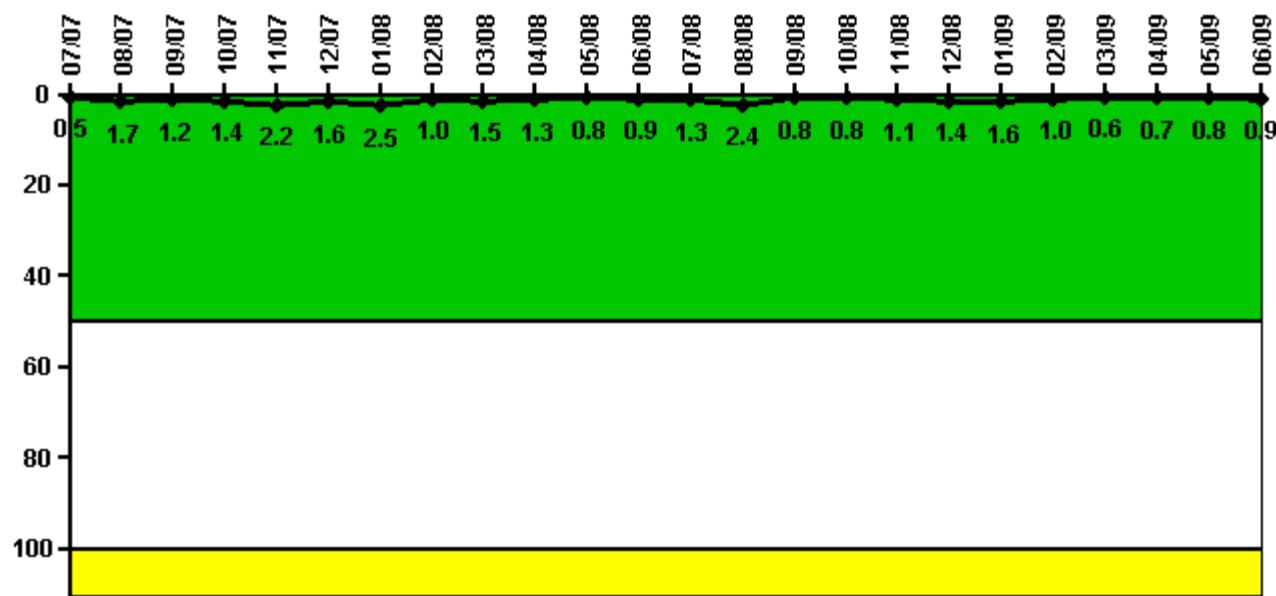
Thresholds: White > 50.0 Yellow > 100.0

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	0.001940	0.002000	0.002210	0.002240	0.002230	0.002350	0.001850	0.002210	0.002370	0.002100	0.002290	0.003820
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
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	0.003180	0.004380	0.003470	0.005590	0.007390	0.006710	0.012200	0.010200	0.001360	0.002030	0.002060	0.002060
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	0.3	0.4	0.3	0.6	0.7	0.7	1.2	1.0	0.1	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



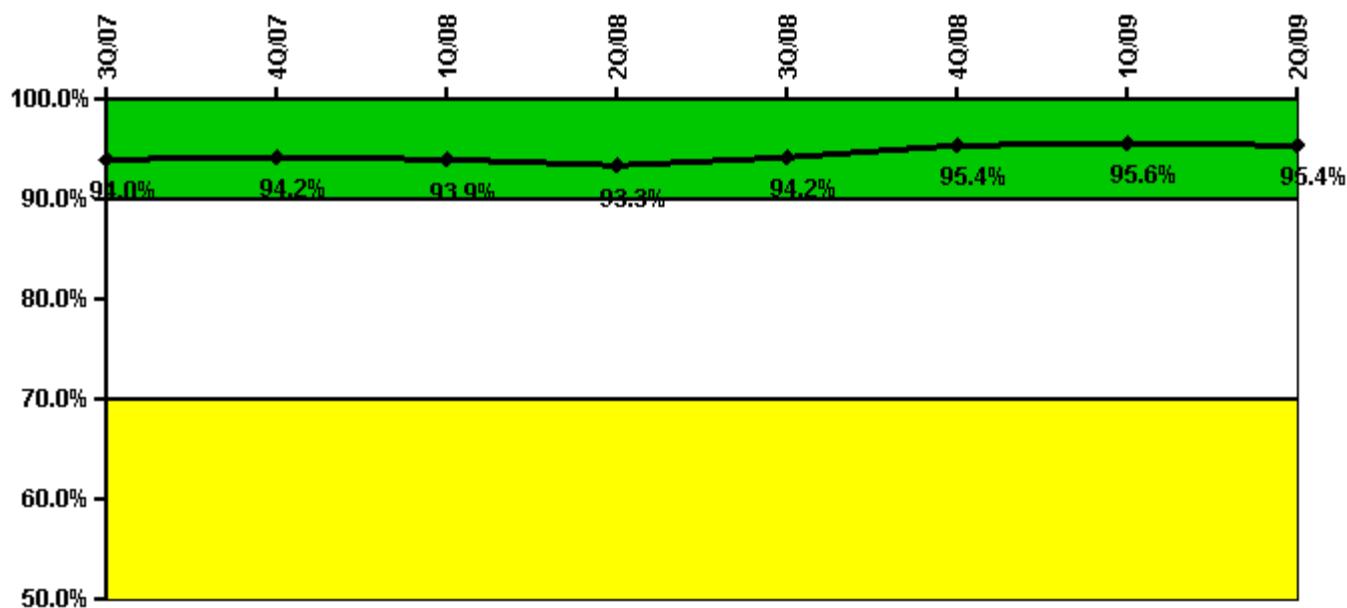
Thresholds: White > 50.0 Yellow > 100.0

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	0.050	0.170	0.120	0.140	0.218	0.160	0.250	0.100	0.150	0.130	0.080	0.090
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	0.5	1.7	1.2	1.4	2.2	1.6	2.5	1.0	1.5	1.3	0.8	0.9
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	0.130	0.240	0.080	0.080	0.110	0.140	0.160	0.100	0.060	0.070	0.080	0.090
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	1.3	2.4	0.8	0.8	1.1	1.4	1.6	1.0	0.6	0.7	0.8	0.9

Licensee Comments: none

Drill/Exercise Performance



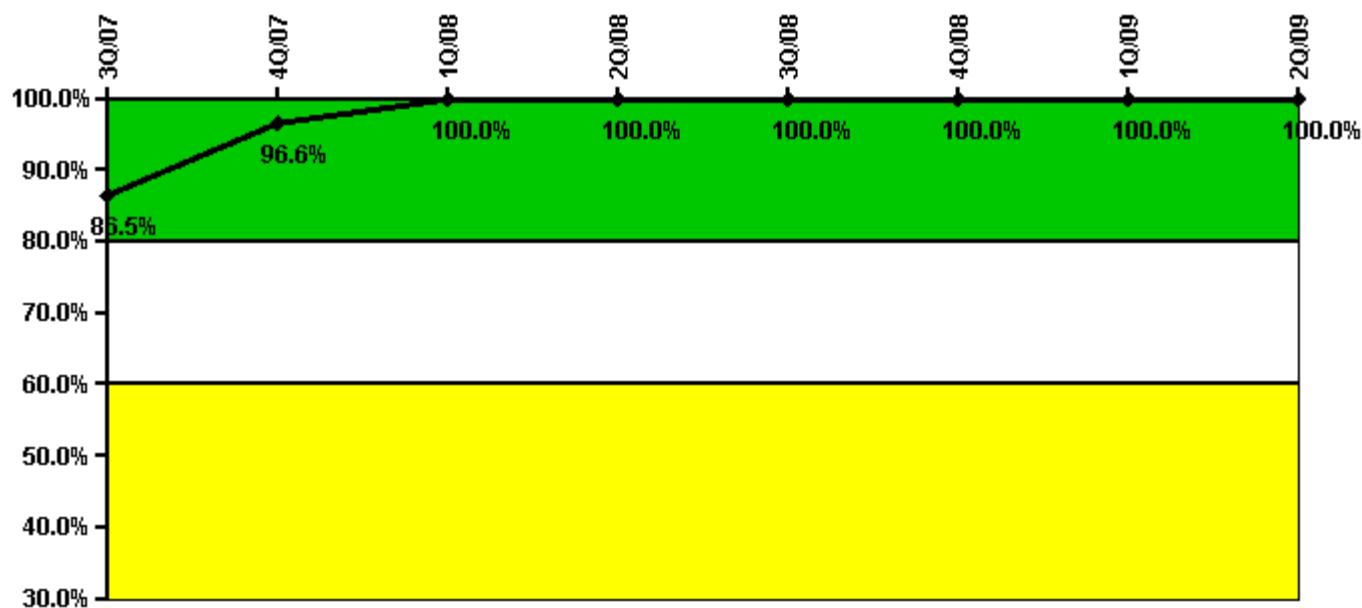
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful opportunities	36.0	69.0	4.0	26.0	40.0	52.0	10.0	30.0
Total opportunities	36.0	71.0	5.0	27.0	40.0	59.0	10.0	32.0
Indicator value	94.0%	94.2%	93.9%	93.3%	94.2%	95.4%	95.6%	95.4%

Licensee Comments: none

ERO Drill Participation



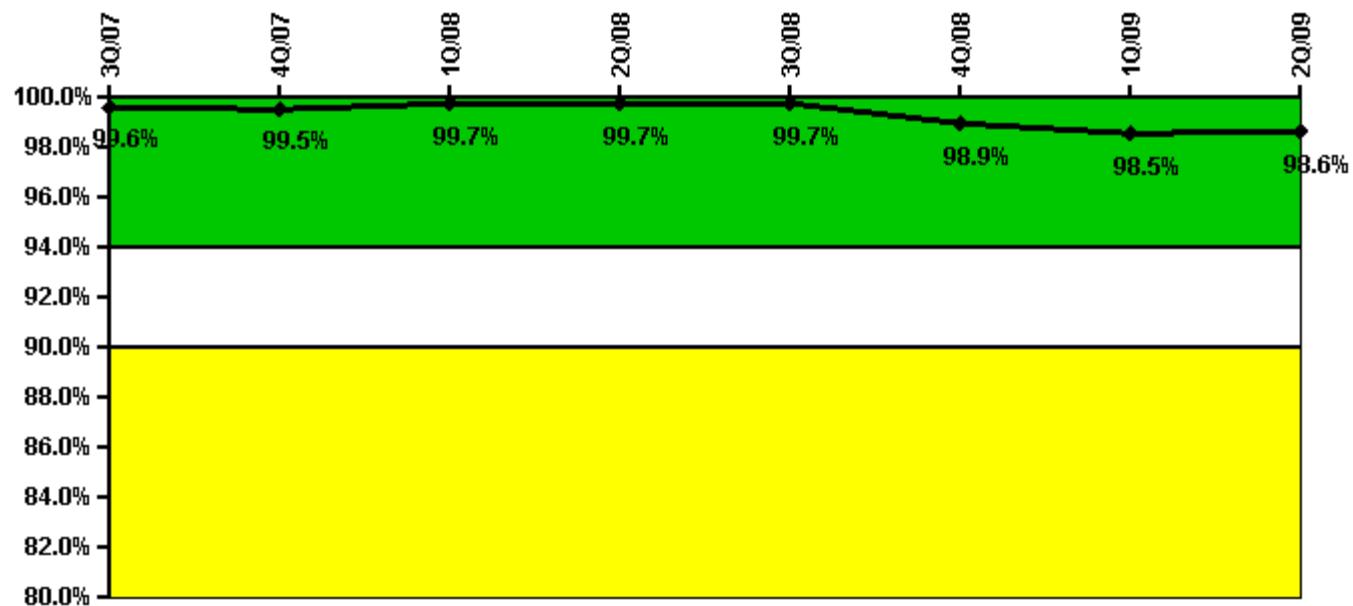
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Participating Key personnel	77.0	85.0	83.0	87.0	86.0	84.0	88.0	98.0
Total Key personnel	89.0	88.0	83.0	87.0	86.0	84.0	88.0	98.0
Indicator value	86.5%	96.6%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



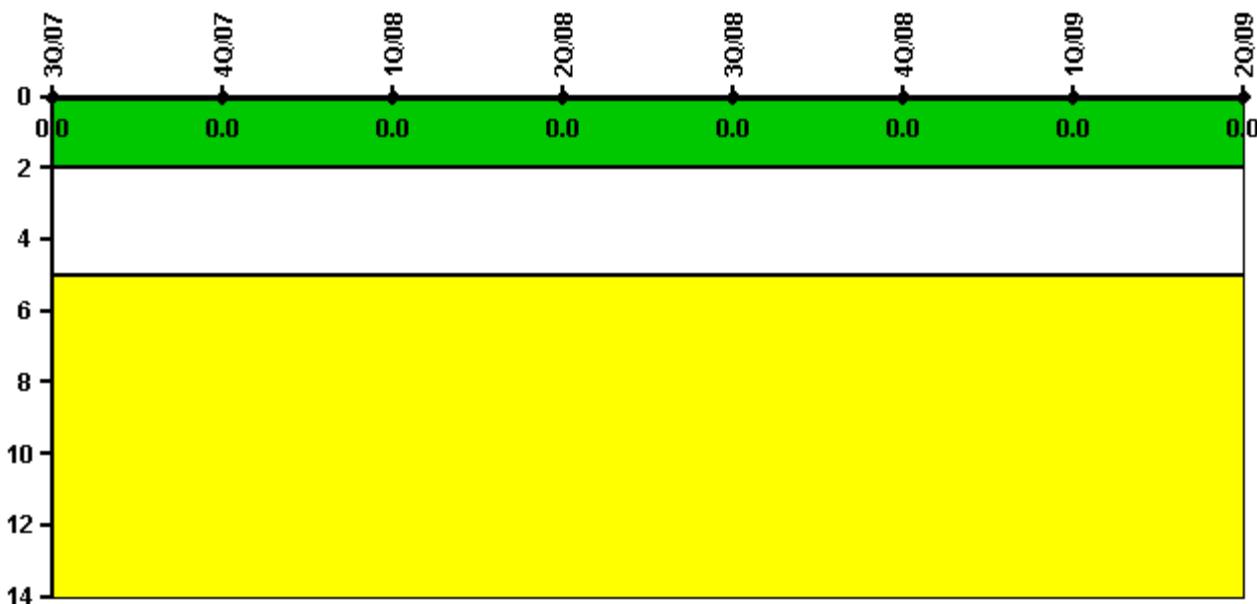
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful siren-tests	947	1019	947	946	946	916	932	948
Total sirens-tests	949	1022	949	949	949	949	949	949
Indicator value	99.6%	99.5%	99.7%	99.7%	99.7%	98.9%	98.5%	98.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



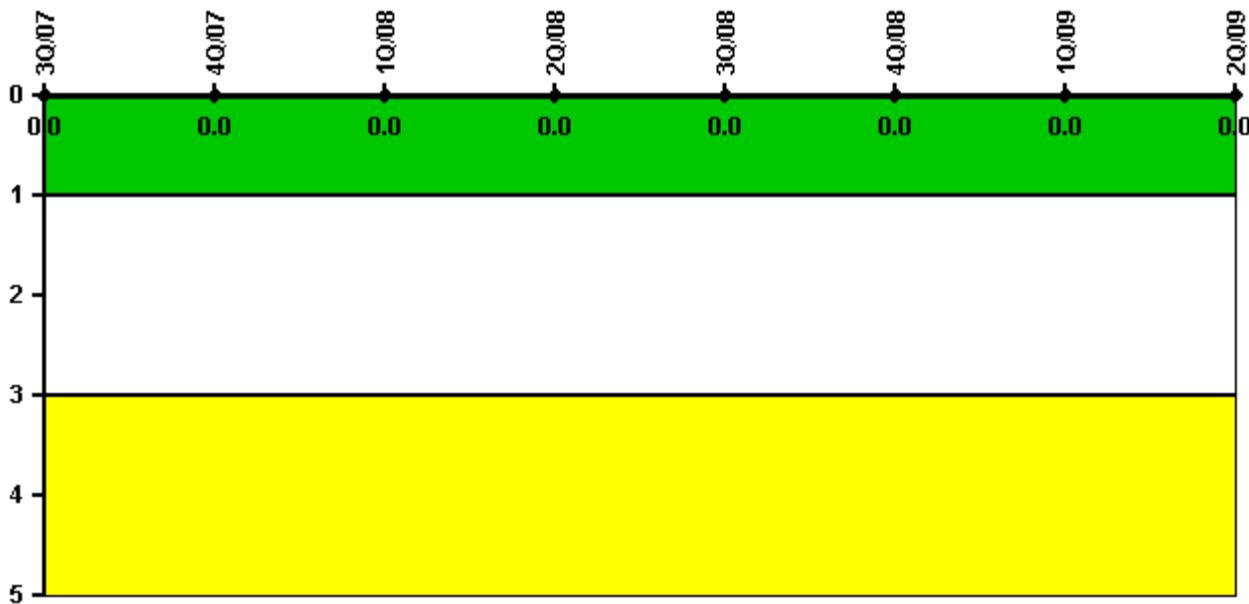
Thresholds: White > 2.0 Yellow > 5.0

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](#)

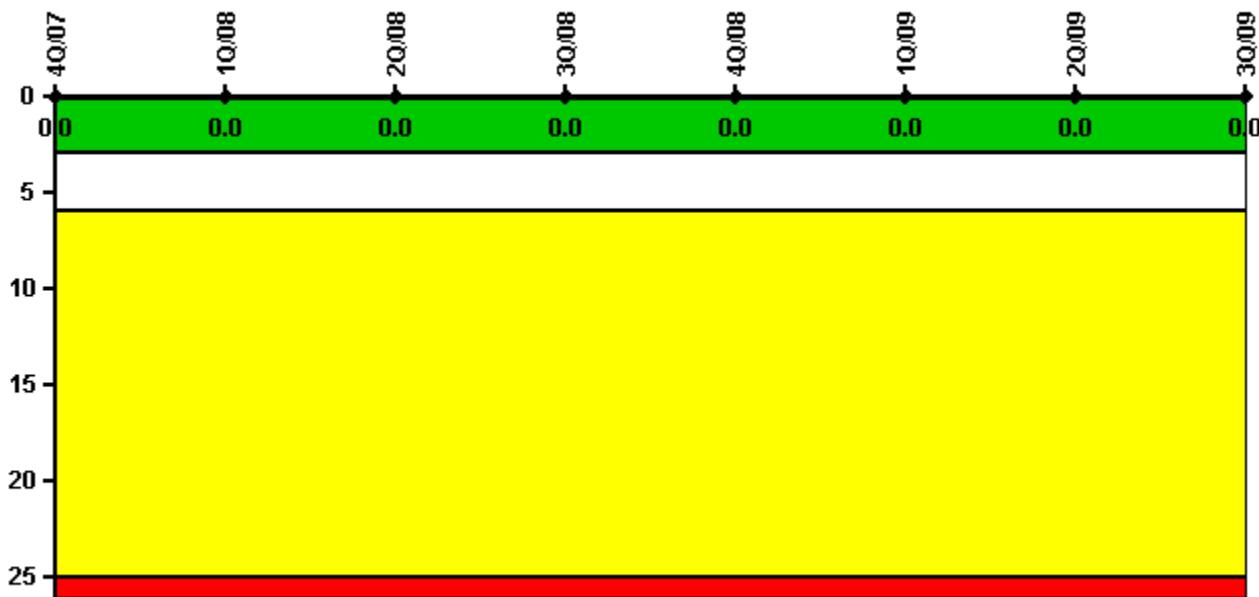
Last Modified: July 22, 2009

Calvert Cliffs 2

3Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



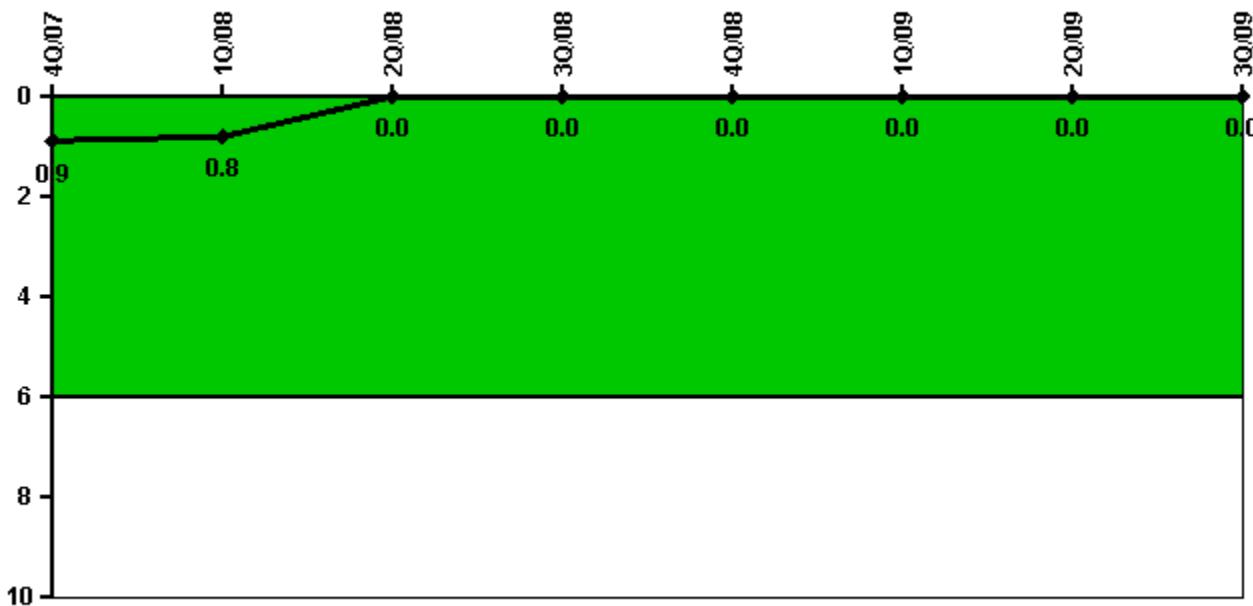
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0
Critical hours	2209.0	2183.0	2184.0	2208.0	2209.0	1657.0	2184.0	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



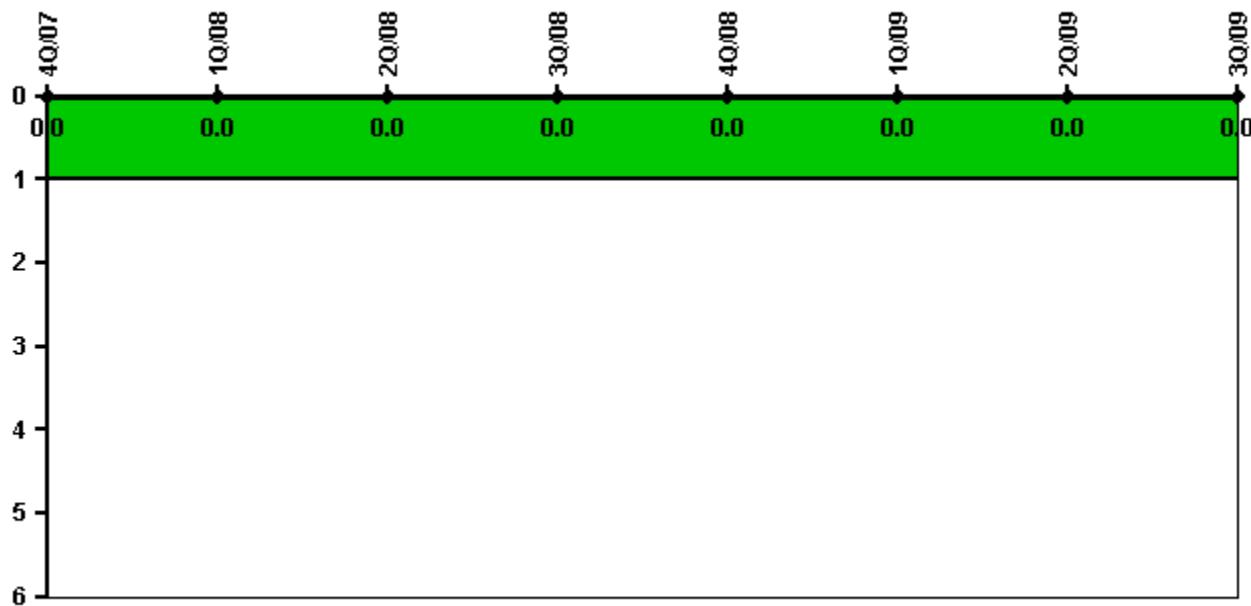
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	2183.0	2184.0	2208.0	2209.0	1657.0	2184.0	2208.0
Indicator value	0.9	0.8	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



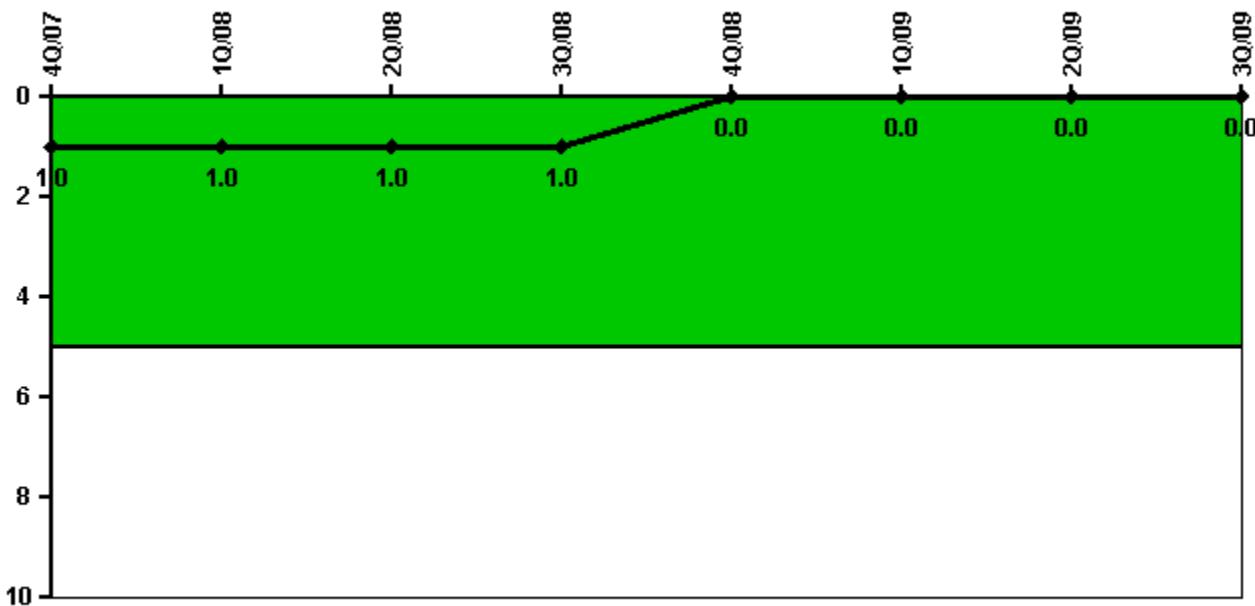
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/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)



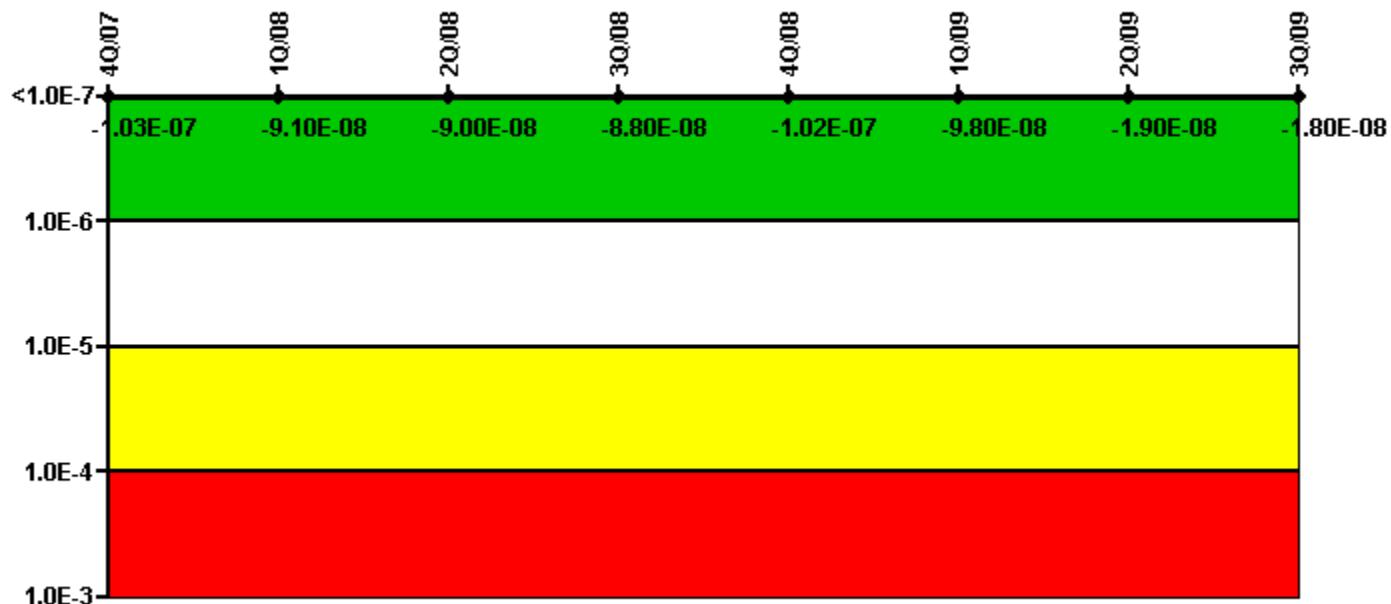
Thresholds: White > 5.0

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	1	0	0	0	0	0	0	0
Indicator value	1	1	1	1	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



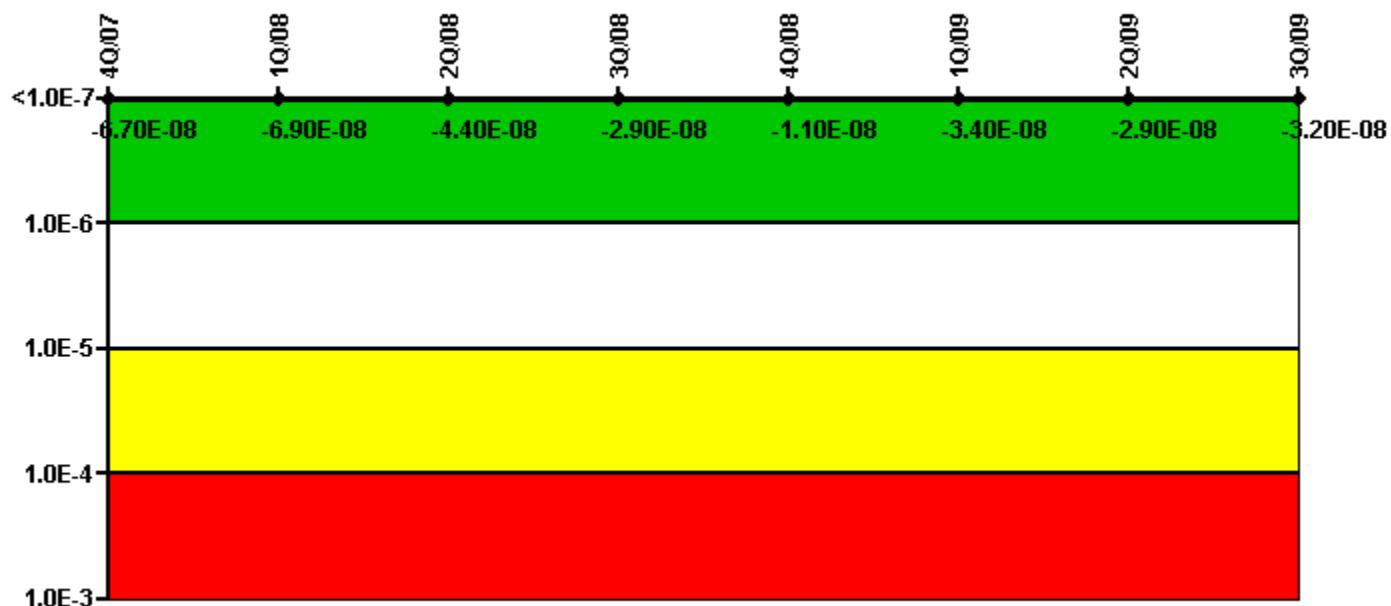
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (Δ CDF)	2.70E-08	2.90E-08	4.00E-08	4.20E-08	1.80E-08	2.20E-08	5.50E-08	5.60E-08
URI (Δ CDF)	-1.30E-07	-1.20E-07	-1.30E-07	-1.30E-07	-1.20E-07	-1.20E-07	-7.40E-08	-7.40E-08
PLE	NO							
Indicator value	-1.03E-07	-9.10E-08	-9.00E-08	-8.80E-08	-1.02E-07	-9.80E-08	-1.90E-08	-1.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



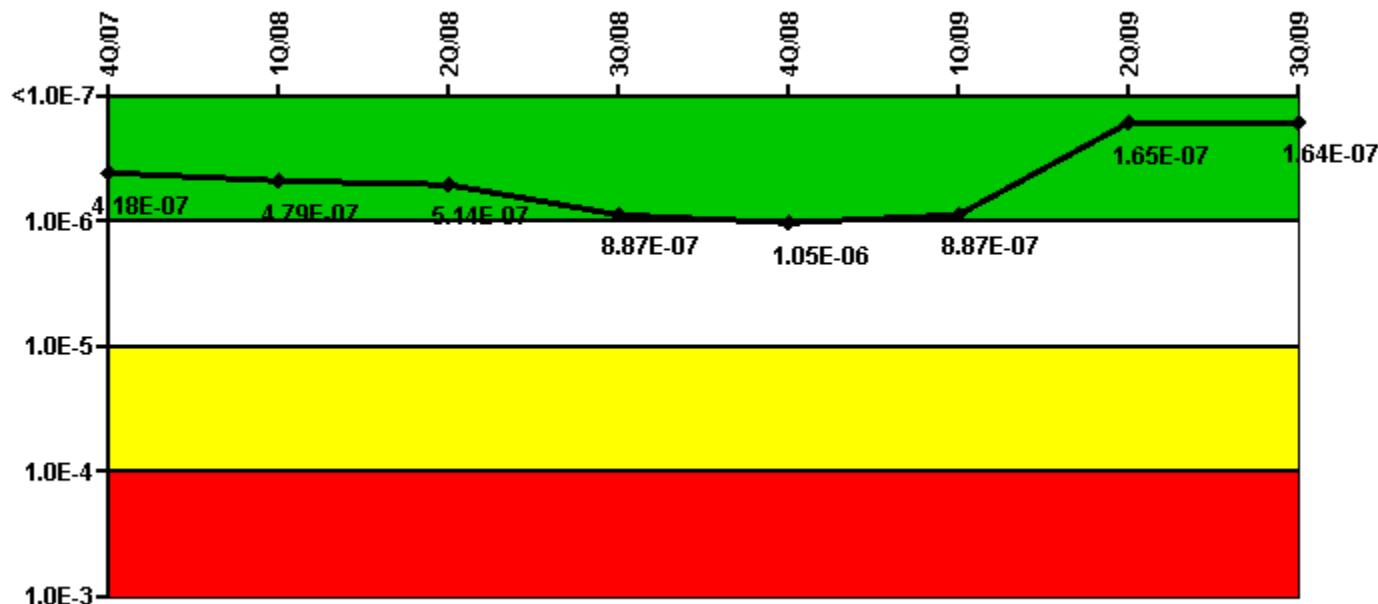
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (Δ CDF)	2.80E-08	2.00E-08	4.80E-08	6.10E-08	7.80E-08	6.00E-08	4.60E-08	4.20E-08
URI (Δ CDF)	-9.50E-08	-8.90E-08	-9.20E-08	-9.00E-08	-8.90E-08	-9.40E-08	-7.50E-08	-7.40E-08
PLE	NO							
Indicator value	-6.70E-08	-6.90E-08	-4.40E-08	-2.90E-08	-1.10E-08	-3.40E-08	-2.90E-08	-3.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



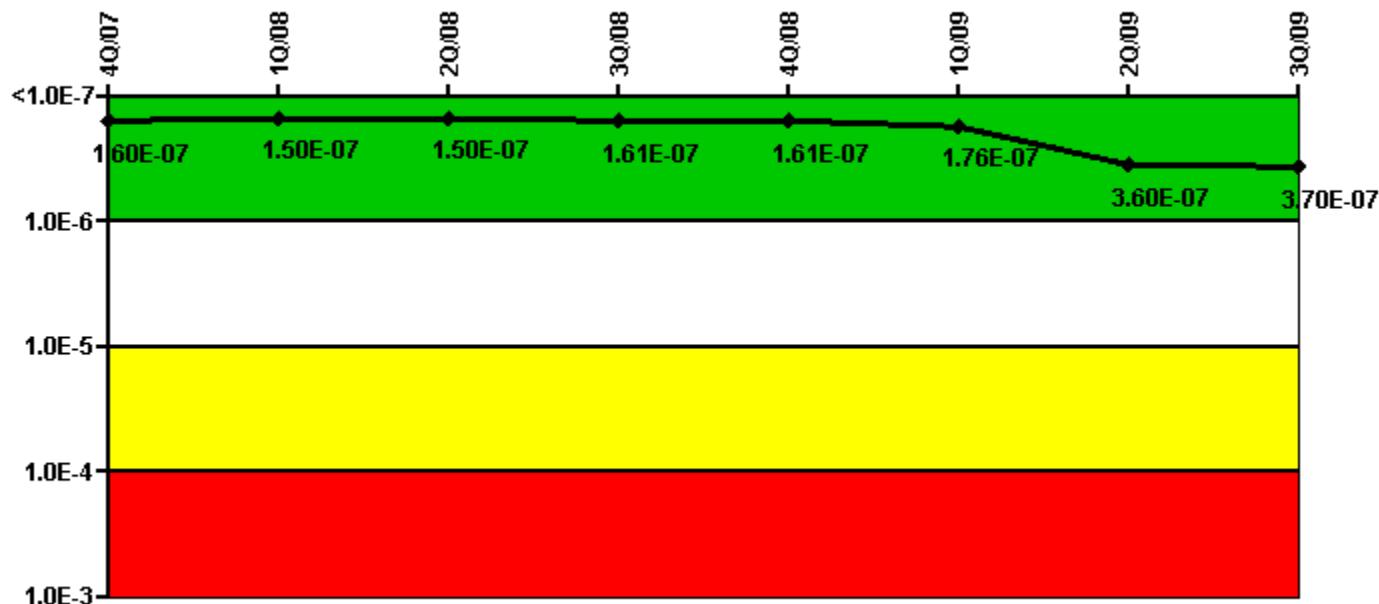
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	6.80E-08	6.90E-08	9.40E-08	8.70E-08	8.60E-08	4.70E-08	4.90E-09	3.50E-09
URI (Δ CDF)	3.50E-07	4.10E-07	4.20E-07	8.00E-07	9.60E-07	8.40E-07	1.60E-07	1.60E-07
PLE	NO							
Indicator value	4.18E-07	4.79E-07	5.14E-07	8.87E-07	1.05E-06	8.87E-07	1.65E-07	1.64E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



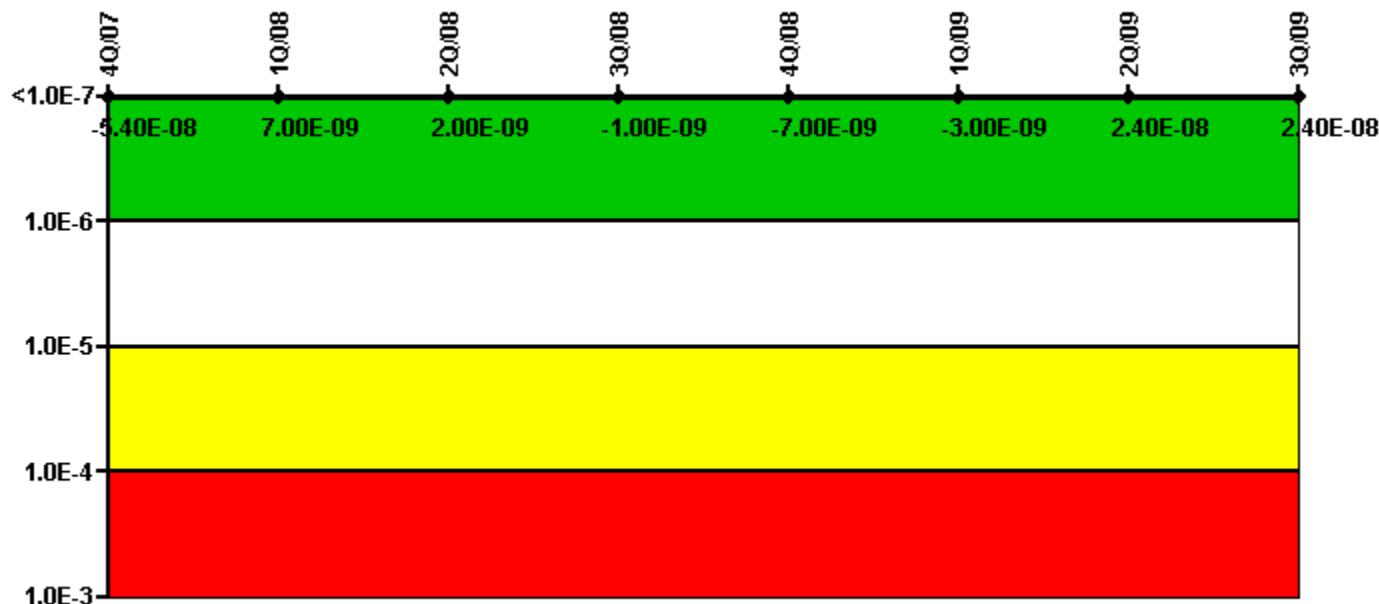
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (Δ CDF)	1.10E-07	1.00E-07	1.00E-07	1.10E-07	1.10E-07	1.20E-07	2.40E-07	2.40E-07
URI (Δ CDF)	5.00E-08	5.00E-08	5.00E-08	5.10E-08	5.10E-08	5.60E-08	1.20E-07	1.30E-07
PLE	NO							
Indicator value	1.60E-07	1.50E-07	1.50E-07	1.61E-07	1.61E-07	1.76E-07	3.60E-07	3.70E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



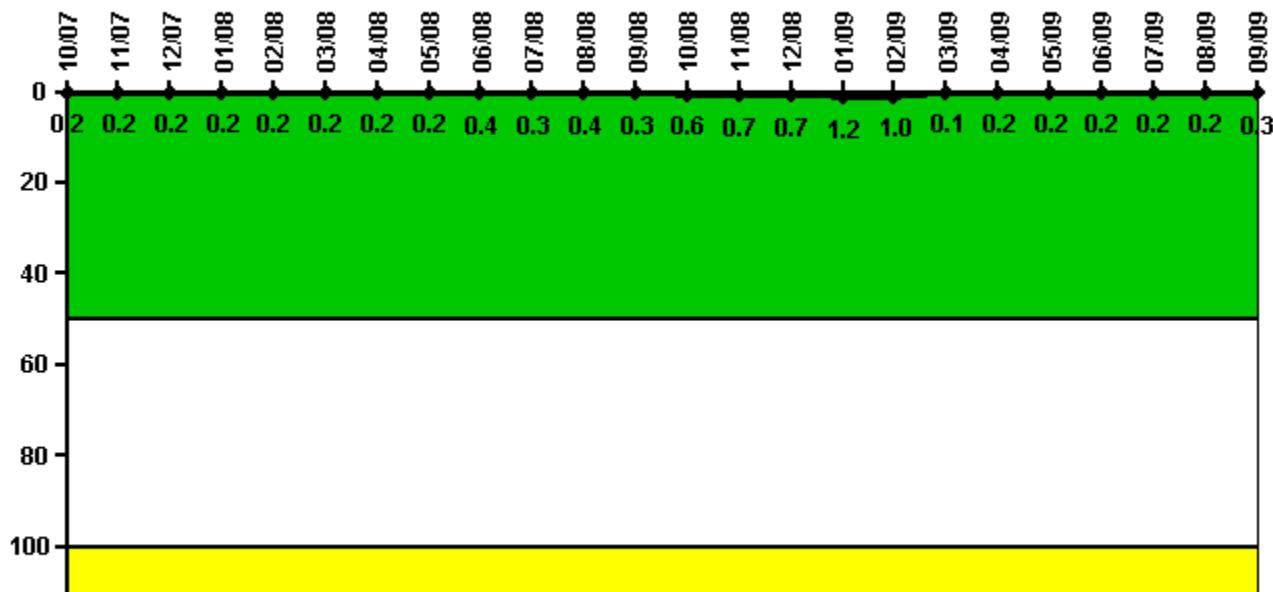
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (Δ CDF)	3.60E-08	4.70E-08	4.30E-08	3.10E-08	2.60E-08	3.10E-08	4.20E-08	4.20E-08
URI (Δ CDF)	-9.00E-08	-4.00E-08	-4.10E-08	-3.20E-08	-3.30E-08	-3.40E-08	-1.80E-08	-1.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.40E-08	7.00E-09	2.00E-09	-1.00E-09	-7.00E-09	-3.00E-09	2.40E-08	2.40E-08

Licensee Comments: none

Reactor Coolant System Activity



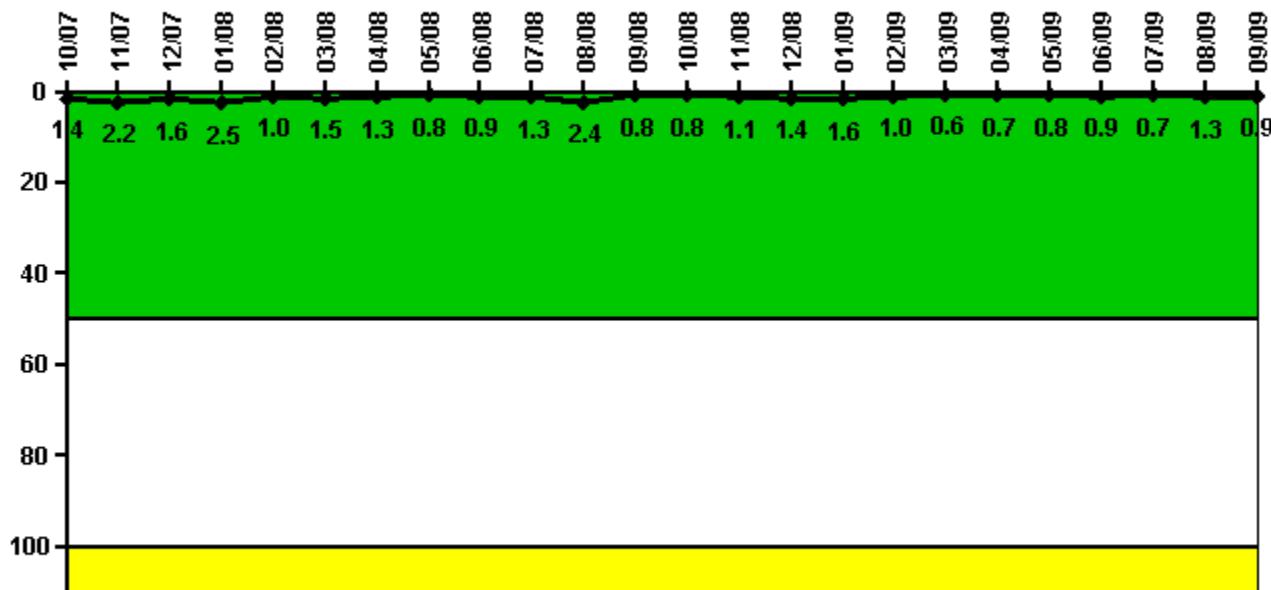
Thresholds: White > 50.0 Yellow > 100.0

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	0.002240	0.002230	0.002350	0.001850	0.002210	0.002370	0.002100	0.002290	0.003820	0.003180	0.004380	0.003470
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.3	0.4	0.3
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	0.005590	0.007390	0.006710	0.012200	0.010200	0.001360	0.002030	0.002060	0.002430	0.002440	0.002560	
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	0.6	0.7	0.7	1.2	1.0	0.1	0.2	0.2	0.2	0.2	0.2	0.3

Licensee Comments: none

Reactor Coolant System Leakage



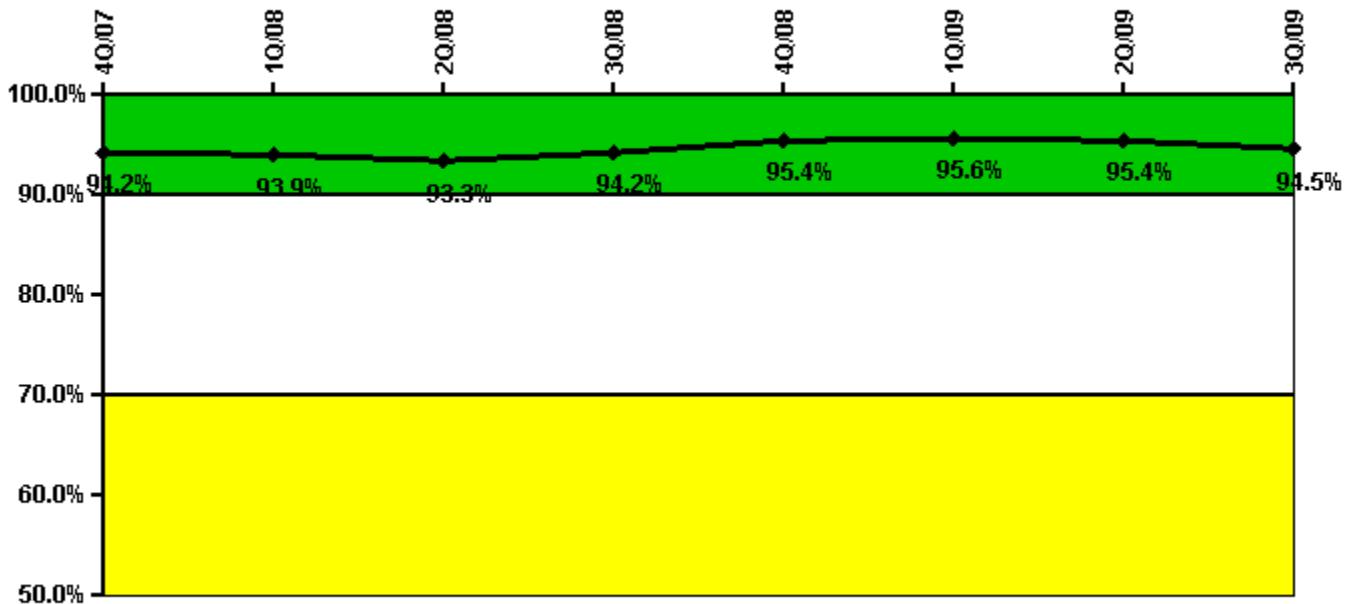
Thresholds: White > 50.0 Yellow > 100.0

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	0.140	0.218	0.160	0.250	0.100	0.150	0.130	0.080	0.090	0.130	0.240	0.080
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	1.4	2.2	1.6	2.5	1.0	1.5	1.3	0.8	0.9	1.3	2.4	0.8
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	0.080	0.110	0.140	0.160	0.100	0.060	0.070	0.080	0.090	0.070	0.130	0.090
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	0.8	1.1	1.4	1.6	1.0	0.6	0.7	0.8	0.9	0.7	1.3	0.9

Licensee Comments: none

Drill/Exercise Performance



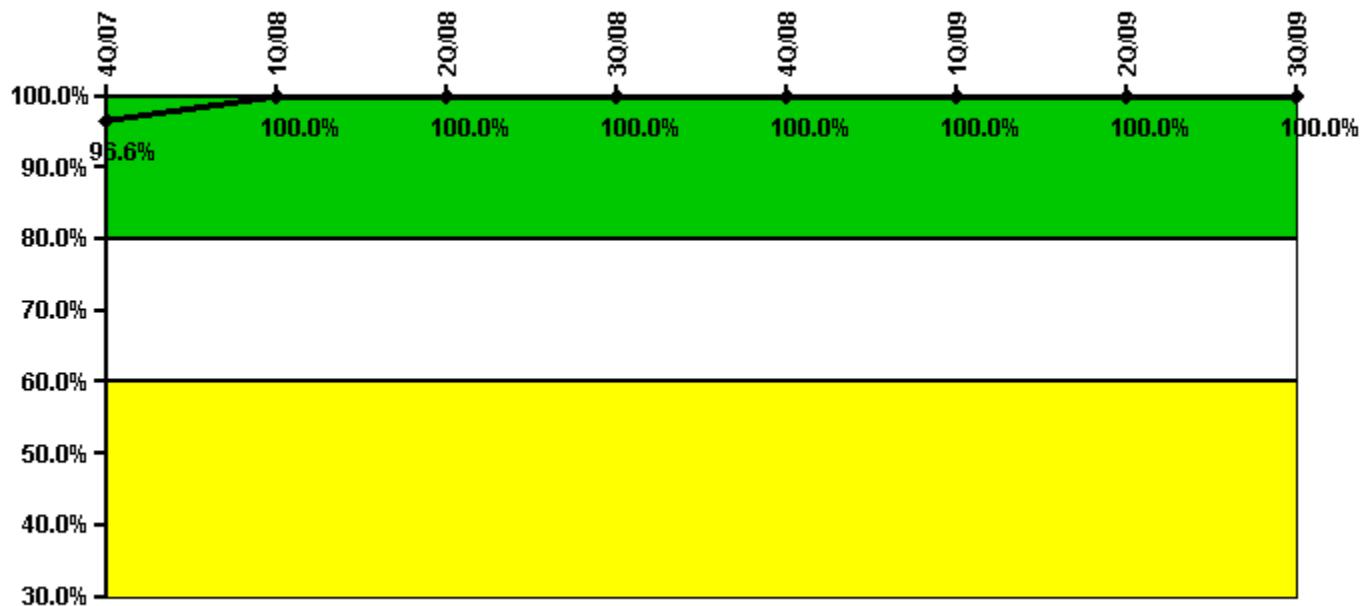
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful opportunities	69.0	4.0	26.0	40.0	52.0	10.0	30.0	43.0
Total opportunities	71.0	5.0	27.0	40.0	59.0	10.0	32.0	46.0
Indicator value	94.2%	93.9%	93.3%	94.2%	95.4%	95.6%	95.4%	94.5%

Licensee Comments: none

ERO Drill Participation



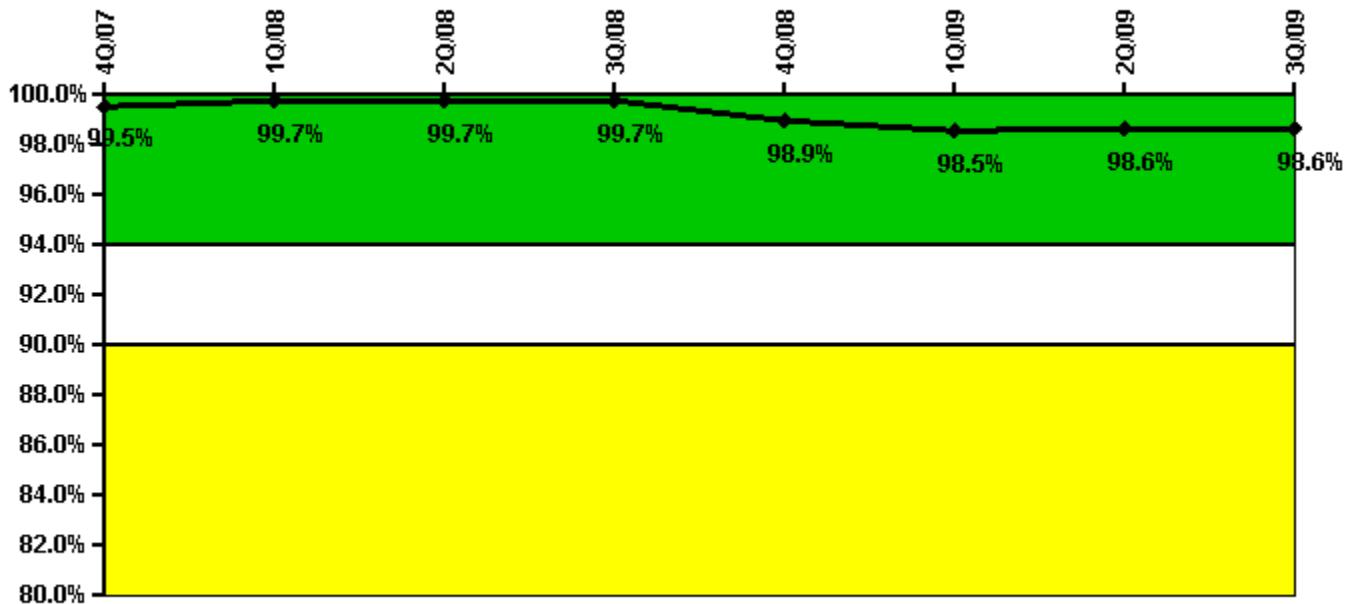
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Participating Key personnel	85.0	83.0	87.0	86.0	84.0	88.0	98.0	101.0
Total Key personnel	88.0	83.0	87.0	86.0	84.0	88.0	98.0	101.0
Indicator value	96.6%	100.0%						

Licensee Comments: none

Alert & Notification System



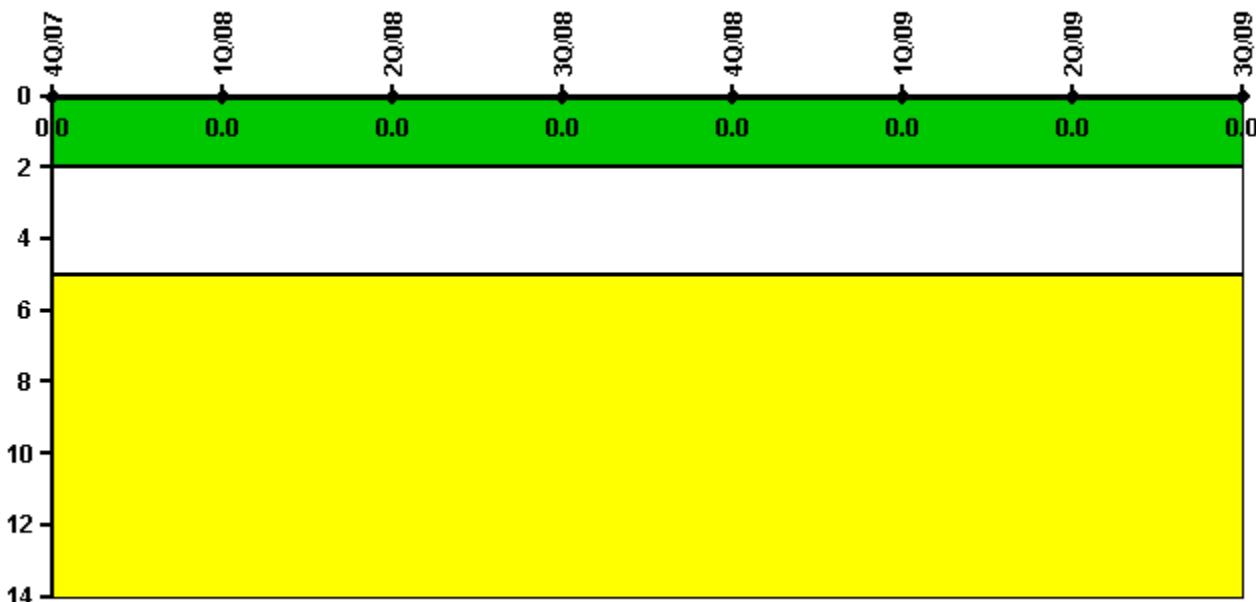
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful siren-tests	1019	947	946	946	916	932	948	947
Total sirens-tests	1022	949	949	949	949	949	949	949
Indicator value	99.5%	99.7%	99.7%	99.7%	98.9%	98.5%	98.6%	98.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



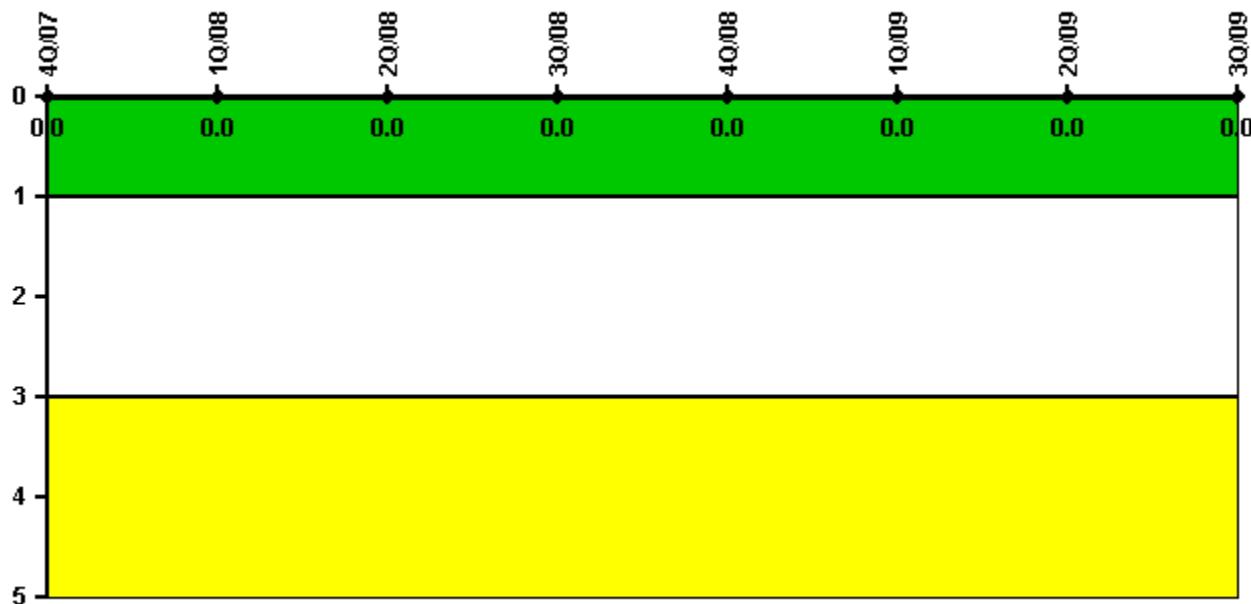
Thresholds: White > 2.0 Yellow > 5.0

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

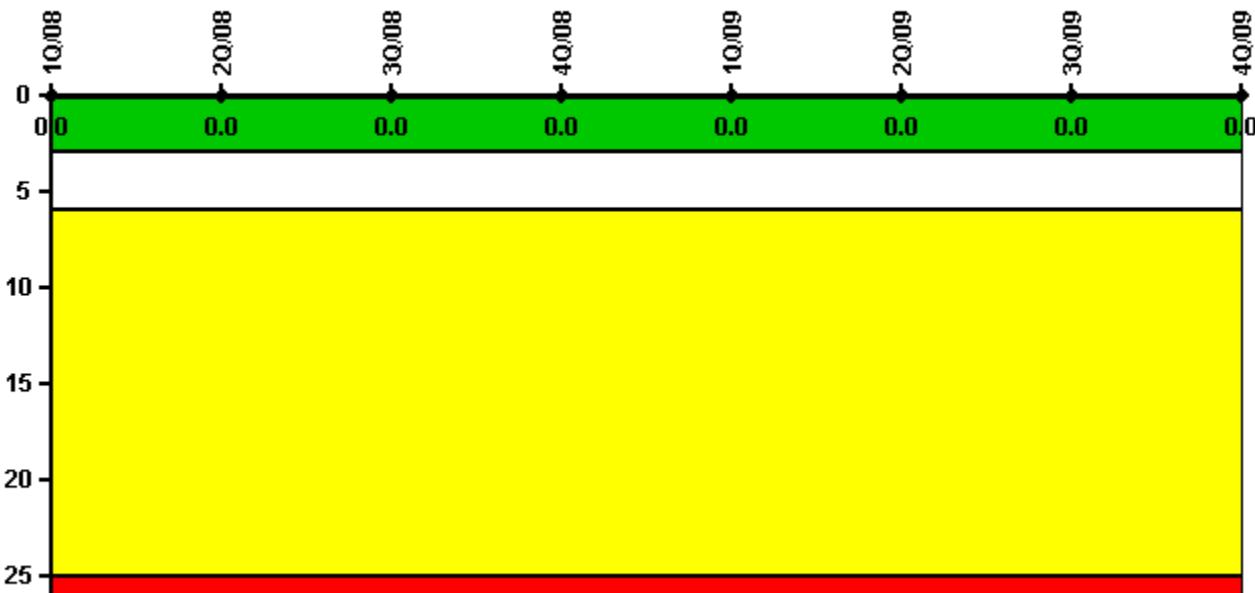
Security information not publicly available.

Calvert Cliffs 2

4Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



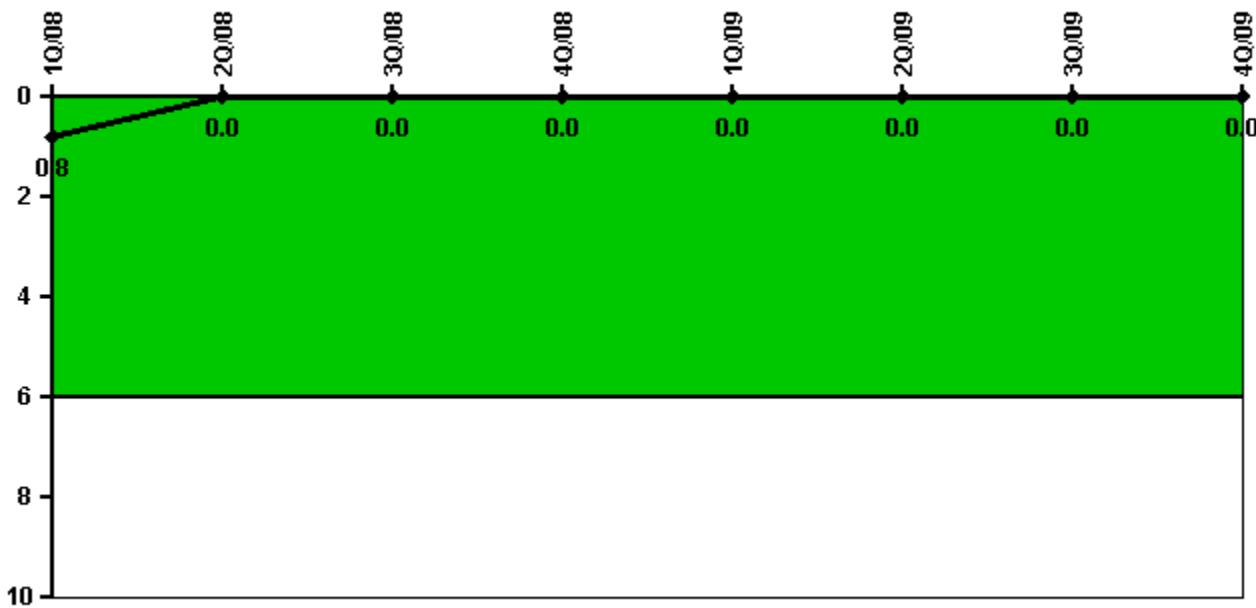
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0
Critical hours	2183.0	2184.0	2208.0	2209.0	1657.0	2184.0	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



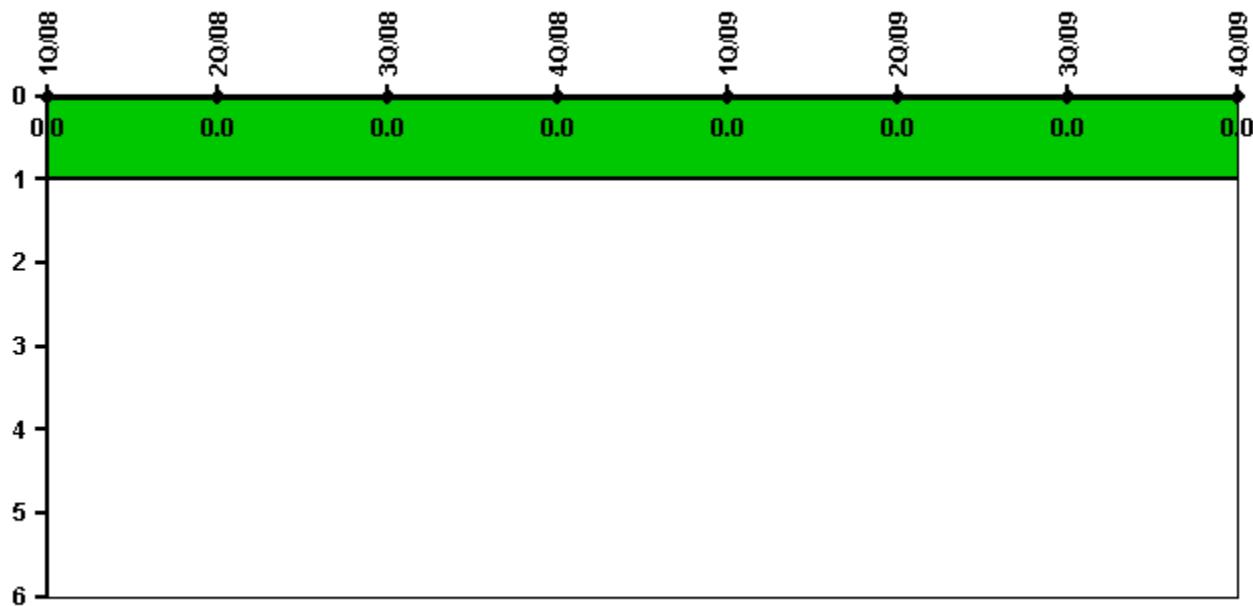
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2209.0	1657.0	2184.0	2208.0	2209.0
Indicator value	0.8	0						

Licensee Comments: none

Unplanned Scrams with Complications



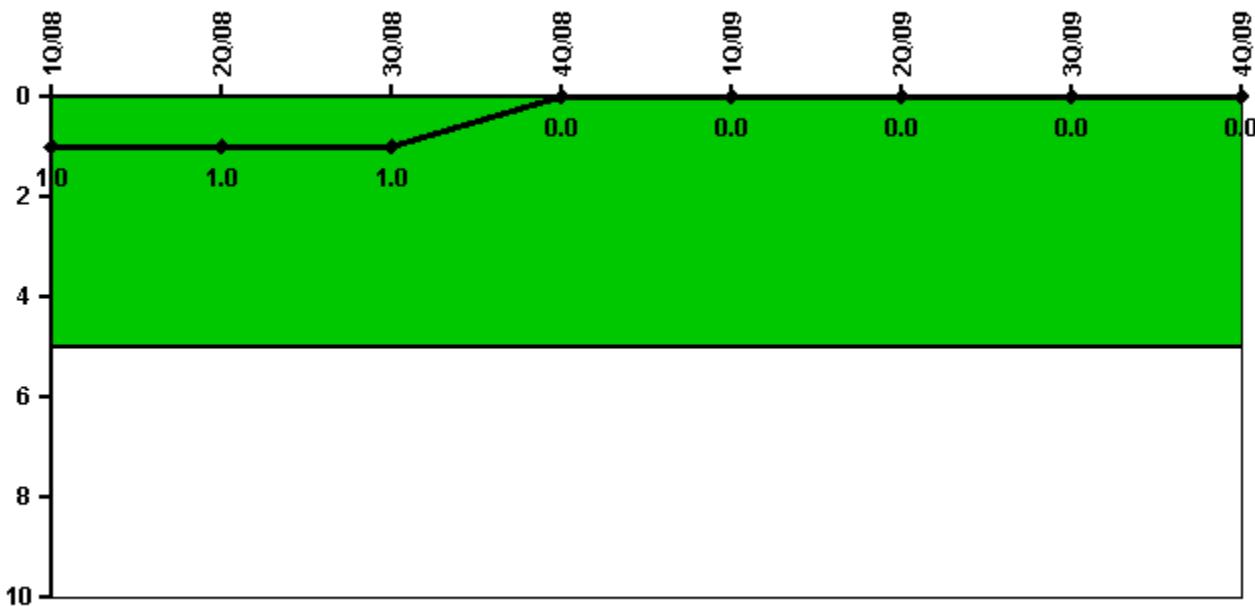
Thresholds: White > 1.0

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)



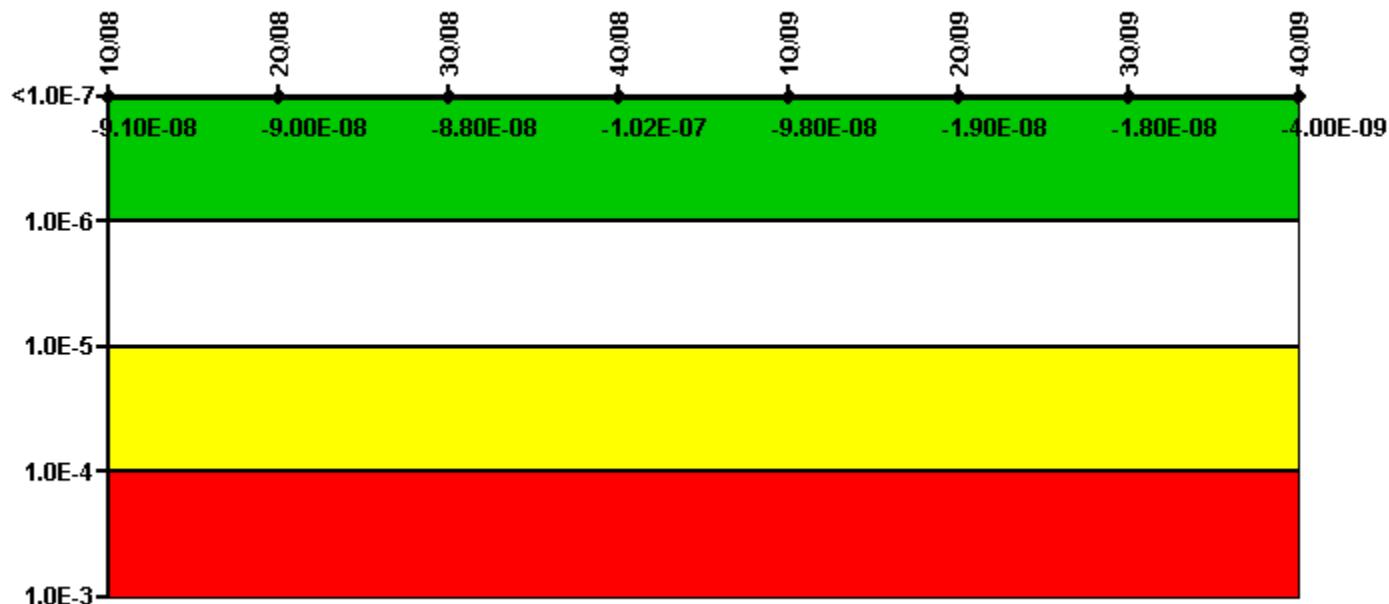
Thresholds: White > 5.0

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	1	1	1	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



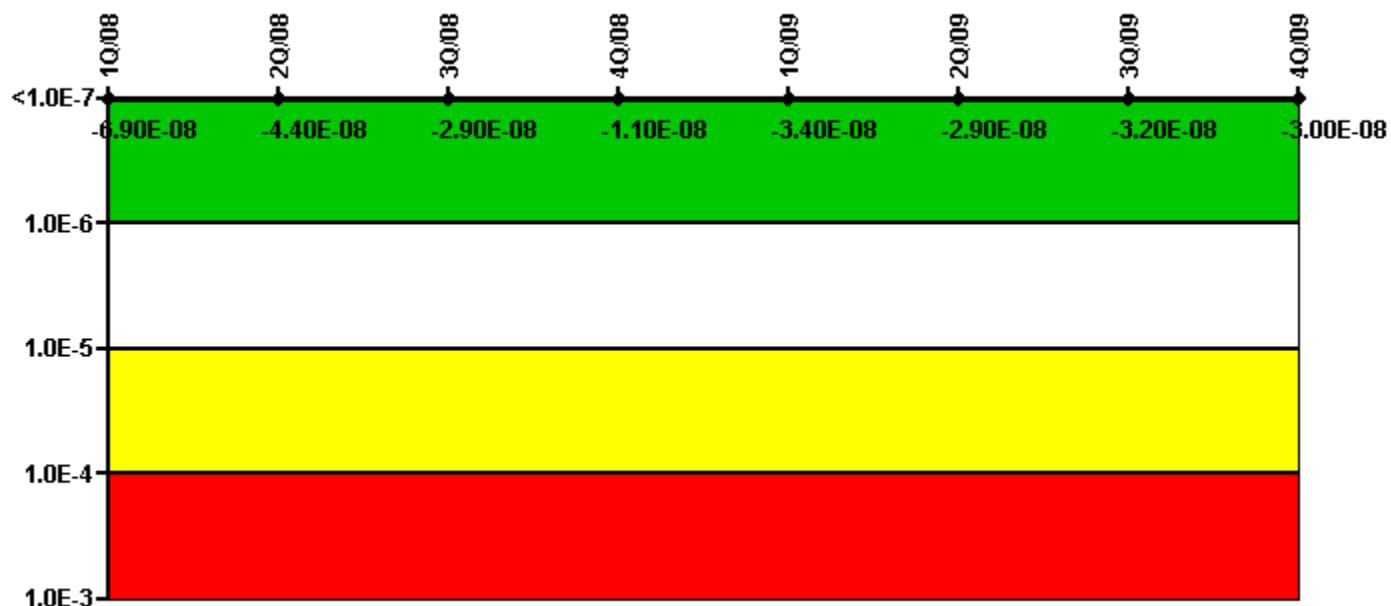
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	2.90E-08	4.00E-08	4.20E-08	1.80E-08	2.20E-08	5.50E-08	5.60E-08	7.00E-08
URI (Δ CDF)	-1.20E-07	-1.30E-07	-1.30E-07	-1.20E-07	-1.20E-07	-7.40E-08	-7.40E-08	-7.40E-08
PLE	NO							
Indicator value	-9.10E-08	-9.00E-08	-8.80E-08	-1.02E-07	-9.80E-08	-1.90E-08	-1.80E-08	-4.00E-09

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



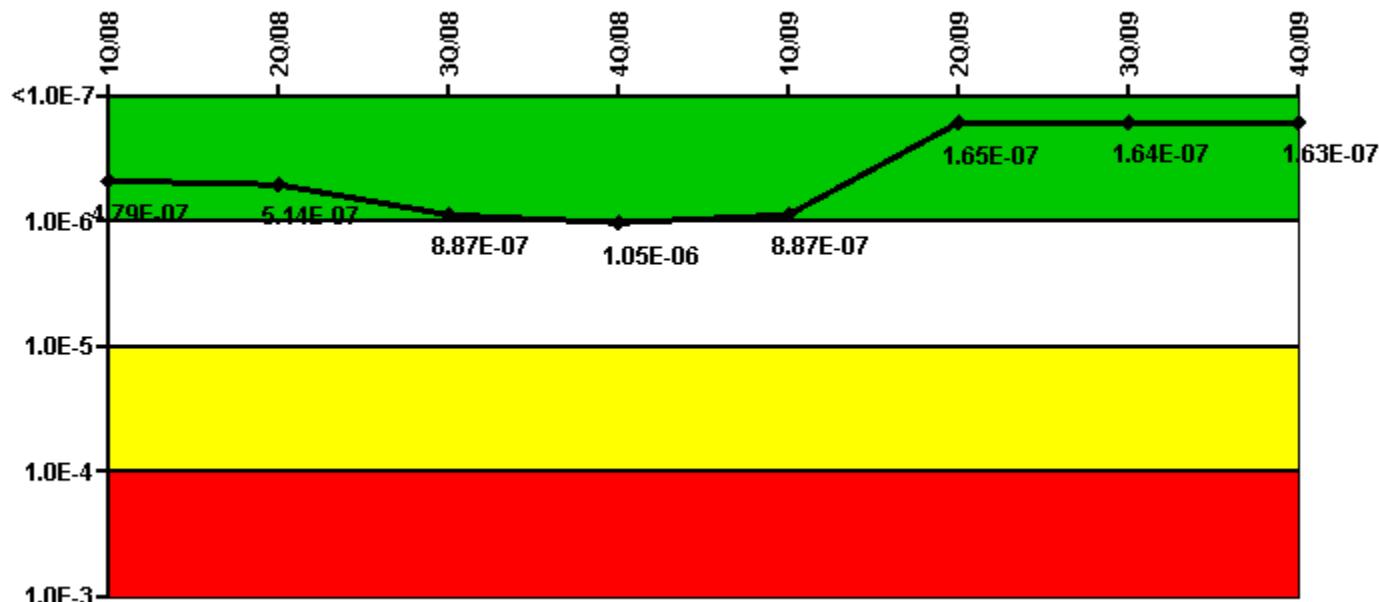
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	2.00E-08	4.80E-08	6.10E-08	7.80E-08	6.00E-08	4.60E-08	4.20E-08	4.10E-08
URI (Δ CDF)	-8.90E-08	-9.20E-08	-9.00E-08	-8.90E-08	-9.40E-08	-7.50E-08	-7.40E-08	-7.10E-08
PLE	NO							
Indicator value	-6.90E-08	-4.40E-08	-2.90E-08	-1.10E-08	-3.40E-08	-2.90E-08	-3.20E-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

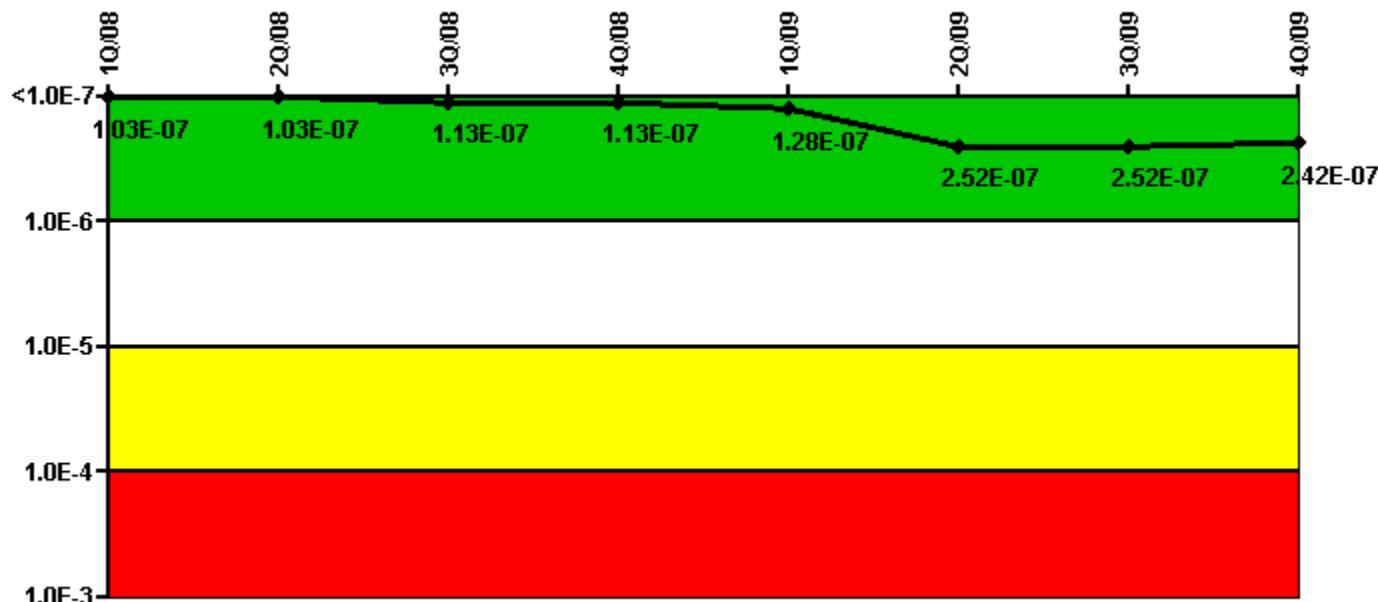
Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	6.90E-08	9.40E-08	8.70E-08	8.60E-08	4.70E-08	4.90E-09	3.50E-09	3.10E-09
URI (Δ CDF)	4.10E-07	4.20E-07	8.00E-07	9.60E-07	8.40E-07	1.60E-07	1.60E-07	1.60E-07
PLE	NO							
Indicator value	4.79E-07	5.14E-07	8.87E-07	1.05E-06	8.87E-07	1.65E-07	1.64E-07	1.63E-07

Licensee Comments:

1Q/08: A failure on 3/31/2007 on 22 AFW Pp was reported as a fail-to-start event. The failure occurred two hours into the test run and should be classified as fail-to-run event. Record corrected on 12/17/2009

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)	1.00E-07	1.00E-07	1.10E-07	1.10E-07	1.20E-07	2.40E-07	2.40E-07	2.30E-07
URI (Δ CDF)	2.50E-09	2.50E-09	2.60E-09	2.70E-09	8.30E-09	1.20E-08	1.20E-08	1.20E-08
PLE	NO							
Indicator value	1.03E-07	1.03E-07	1.13E-07	1.13E-07	1.28E-07	2.52E-07	2.52E-07	2.42E-07

Licensee Comments:

3Q/09: A failure on 3/31/2007 on 22 AFW Pp was reported as a fail-to-start event. The failure occurred two hours into the test run and should be classified as fail-to-run event. Record corrected on 12/17/2009

2Q/09: A failure on 3/31/2007 on 22 AFW Pp was reported as a fail-to-start event. The failure occurred two hours into the test run and should be classified as fail-to-run event. Record corrected on 12/17/2009

1Q/09: A failure on 3/31/2007 on 22 AFW Pp was reported as a fail-to-start event. The failure occurred two hours into the test run and should be classified as fail-to-run event. Record corrected on 12/17/2009

4Q/08: A failure on 3/31/2007 on 22 AFW Pp was reported as a fail-to-start event. The failure occurred two hours into the test run and should be classified as fail-to-run event. Record corrected on 12/17/2009

3Q/08: A failure on 3/31/2007 on 22 AFW Pp was reported as a fail-to-start event. The failure occurred two hours into the test run and should be classified as fail-to-run event. Record corrected on 12/17/2009

2Q/08: A failure on 3/31/2007 on 22 AFW Pp was reported as a fail-to-start event. The failure occurred two hours into the test run and should be classified as fail-to-run event. Record corrected on 12/17/2009

1Q/08: A failure on 3/31/2007 on 22 AFW Pp was reported as a fail-to-start event. The failure occurred two hours into the test run and should be classified as fail-to-run event. Record corrected on 12/17/2009

4Q/07: A failure on 3/31/2007 on 22 AFW Pp was reported as a fail-to-start event. The failure occurred two hours into the test run and should be classified as fail-to-run event. Record corrected on 12/17/2009

3Q/07: A failure on 3/31/2007 on 22 AFW Pp was reported as a fail-to-start event. The failure occurred two hours into the test run and should be classified as fail-to-run event. Record corrected on 12/17/2009

2Q/07: A failure on 3/31/2007 on 22 AFW Pp was reported as a fail-to-start event. The failure occurred two hours into the test run and should be classified as fail-to-run event. Record corrected on 12/17/2009

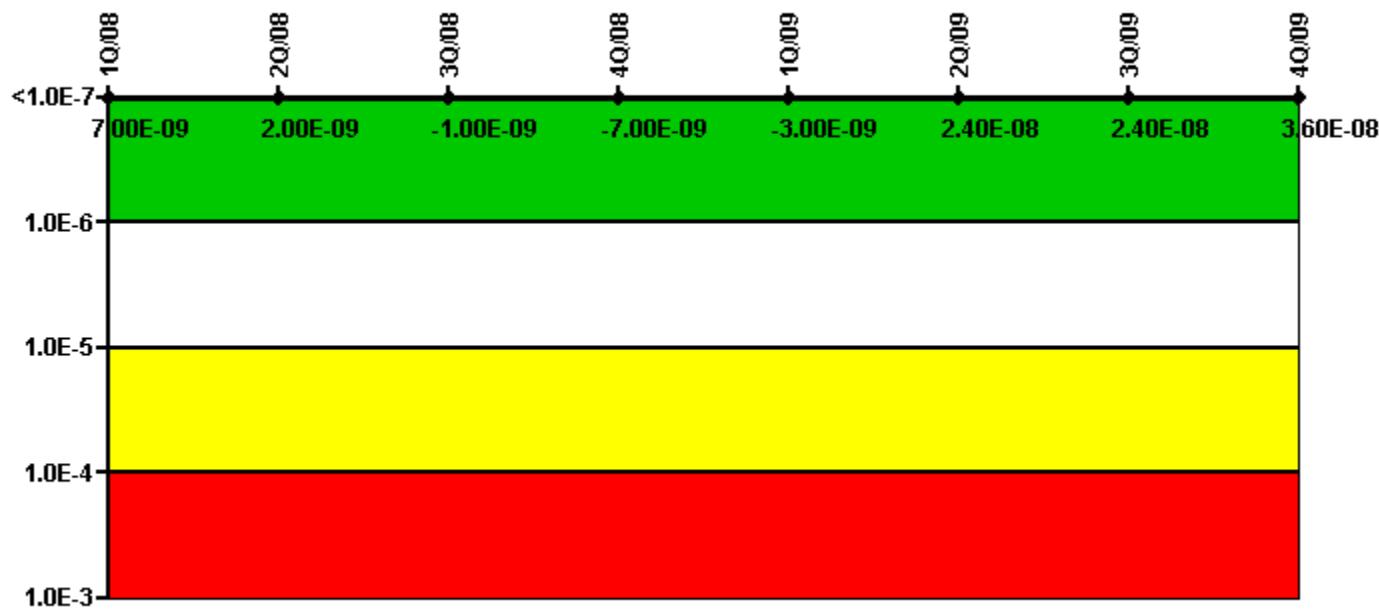
1Q/07: A failure on 3/31/2007 on 22 AFW Pp was reported as a fail-to-start event. The failure occurred two hours into the test run and should be classified as fail-to-run event. Record corrected on 12/17/2009

4Q/06: During a PRA analysis, it was identified that the operator type for 2CV3828 was incorrectly listed as an MOV. Data from 2Q2006 had to be changed, locked, and restored to correctly list the device as an AOV causing a change report.

3Q/06: During a PRA analysis, it was identified that the operator type for 2CV3828 was incorrectly listed as an MOV. Data from 2Q2006 had to be changed, locked, and restored to correctly list the device as an AOV causing a change report.

2Q/06: During a PRA analysis, it was identified that the operator type for 2CV3828 was incorrectly listed as an MOV. Data from 2Q2006 had to be changed, locked, and restored to correctly list the device as an AOV causing a change report.

Mitigating Systems Performance Index, Cooling Water Systems

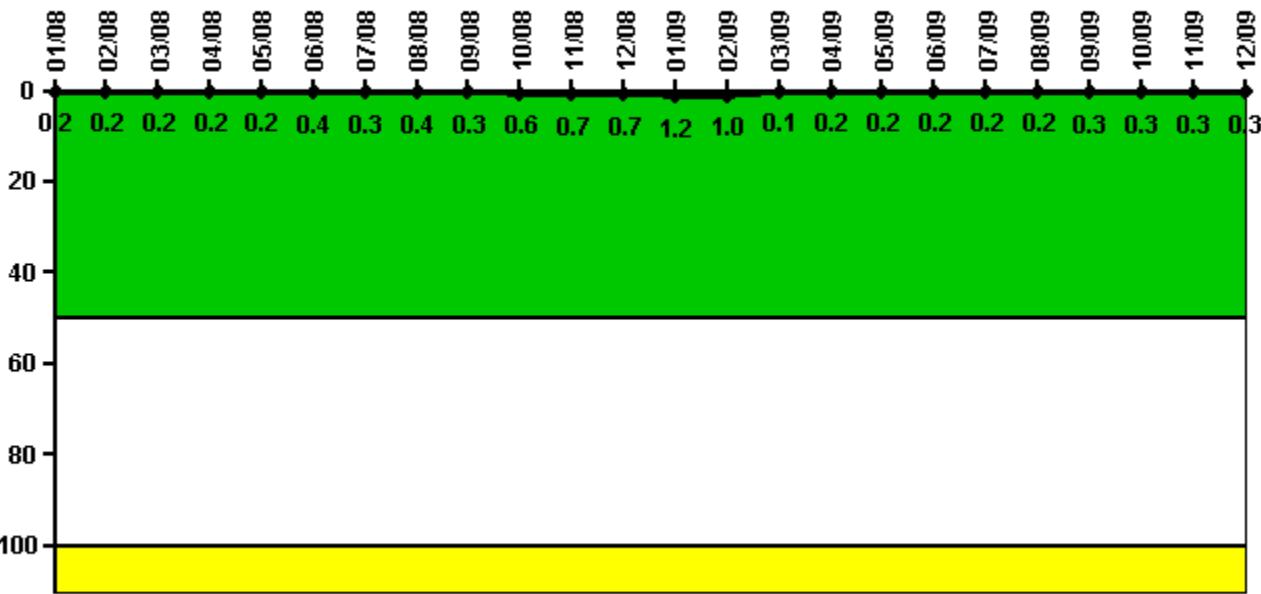


Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Indicator value	7.00E-09	2.00E-09	-1.00E-09	-7.00E-09	-3.00E-09	2.40E-08	2.40E-08	3.60E-08
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Licensee Comments: none



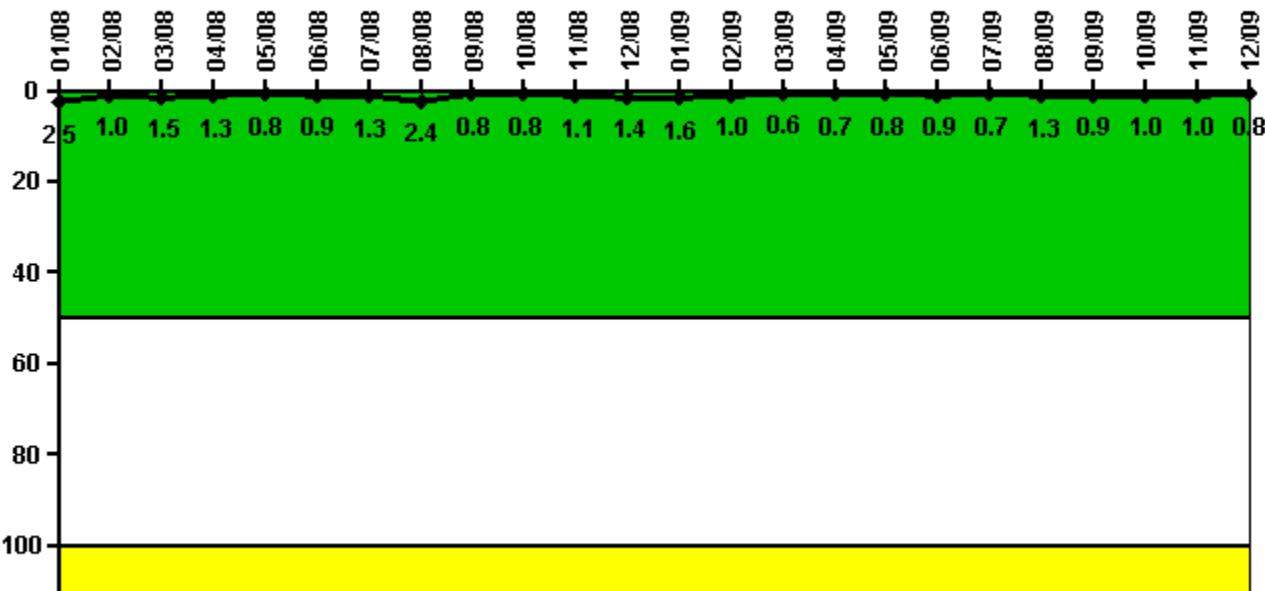
Thresholds: White > 50.0 Yellow > 100.0

Notes

value	1.2	1.0	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
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Licensee Comments: none

Reactor Coolant System Leakage



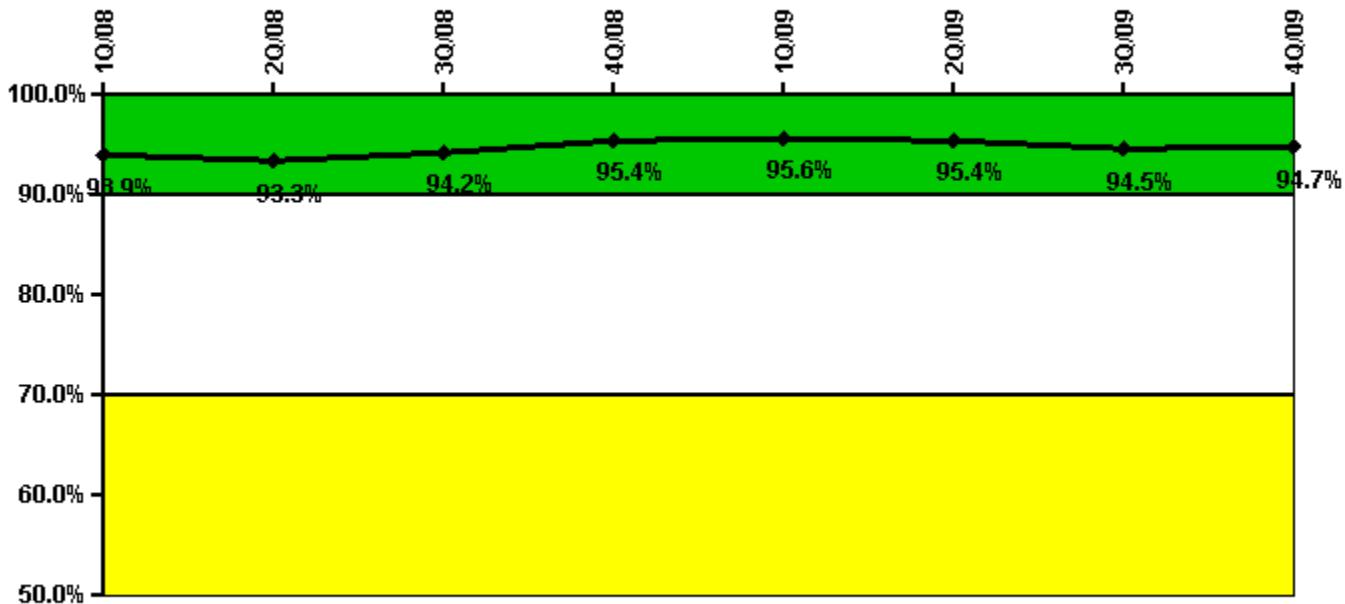
Thresholds: White > 50.0 Yellow > 100.0

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	0.250	0.100	0.150	0.130	0.080	0.090	0.130	0.240	0.080	0.080	0.110	0.140
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	2.5	1.0	1.5	1.3	0.8	0.9	1.3	2.4	0.8	0.8	1.1	1.4
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	0.160	0.100	0.060	0.070	0.080	0.090	0.070	0.130	0.090	0.100	0.100	0.080
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	1.6	1.0	0.6	0.7	0.8	0.9	0.7	1.3	0.9	1.0	1.0	0.8

Licensee Comments: none

Drill/Exercise Performance



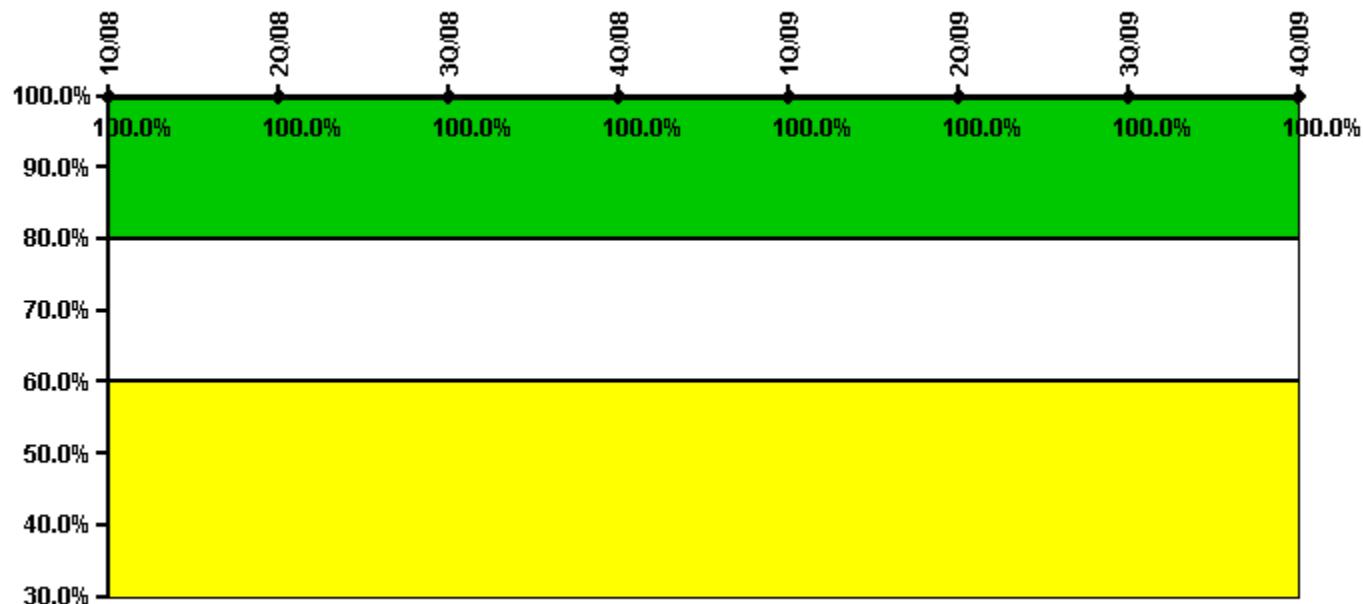
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful opportunities	4.0	26.0	40.0	52.0	10.0	30.0	43.0	63.0
Total opportunities	5.0	27.0	40.0	59.0	10.0	32.0	46.0	64.0
Indicator value	93.9%	93.3%	94.2%	95.4%	95.6%	95.4%	94.5%	94.7%

Licensee Comments: none

ERO Drill Participation



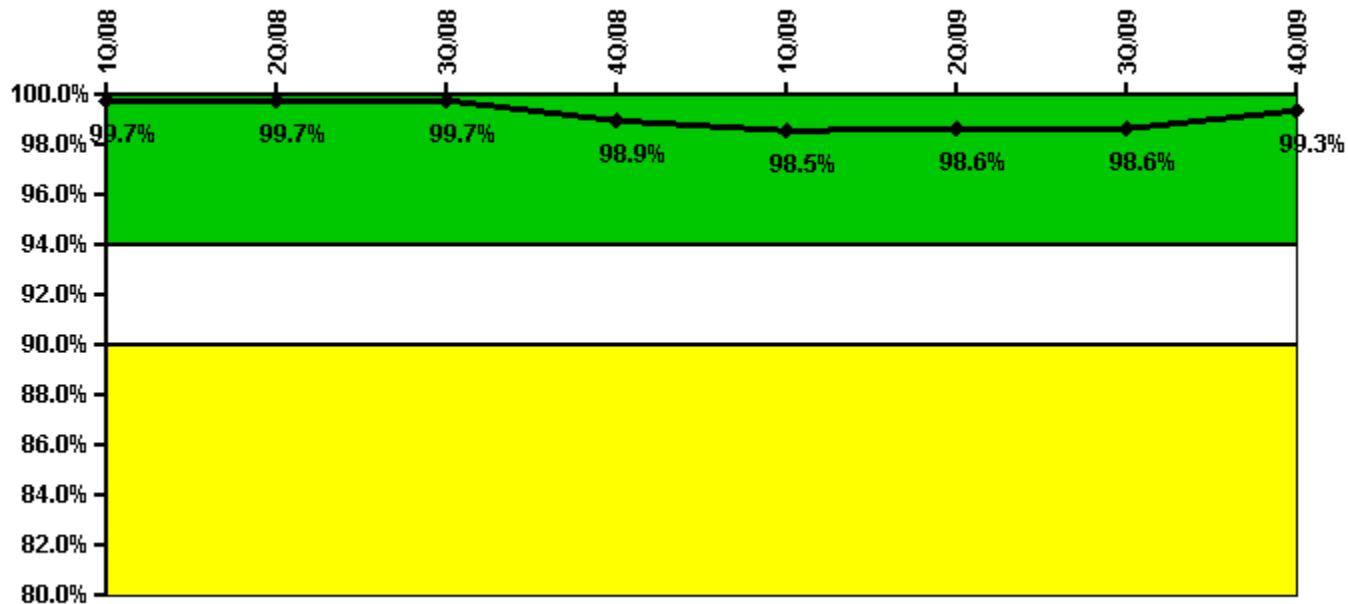
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Participating Key personnel	83.0	87.0	86.0	84.0	88.0	98.0	101.0	95.0
Total Key personnel	83.0	87.0	86.0	84.0	88.0	98.0	101.0	95.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



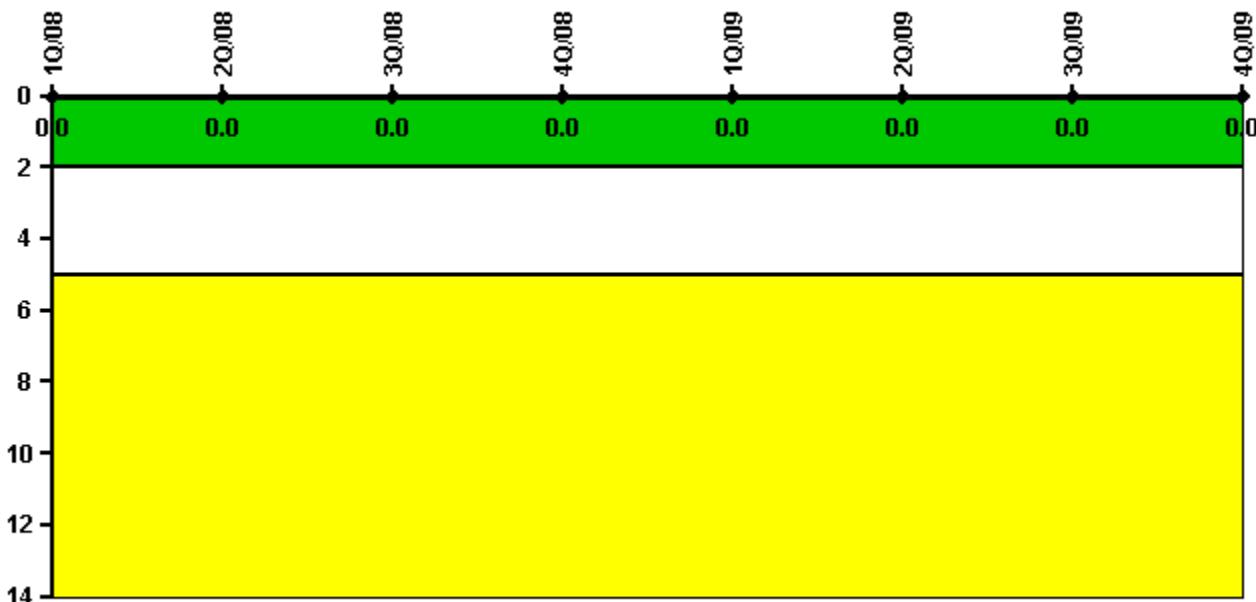
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful siren-tests	947	946	946	916	932	948	947	942
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.7%	99.7%	99.7%	98.9%	98.5%	98.6%	98.6%	99.3%

Licensee Comments: none

Occupational Exposure Control Effectiveness



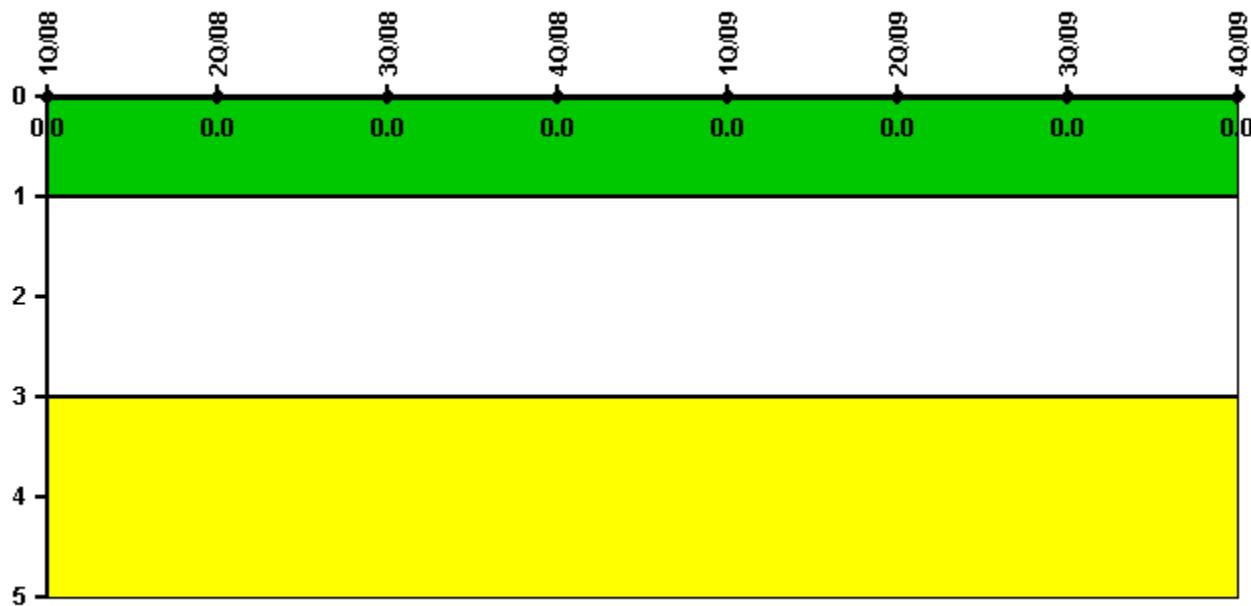
Thresholds: White > 2.0 Yellow > 5.0

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](#)

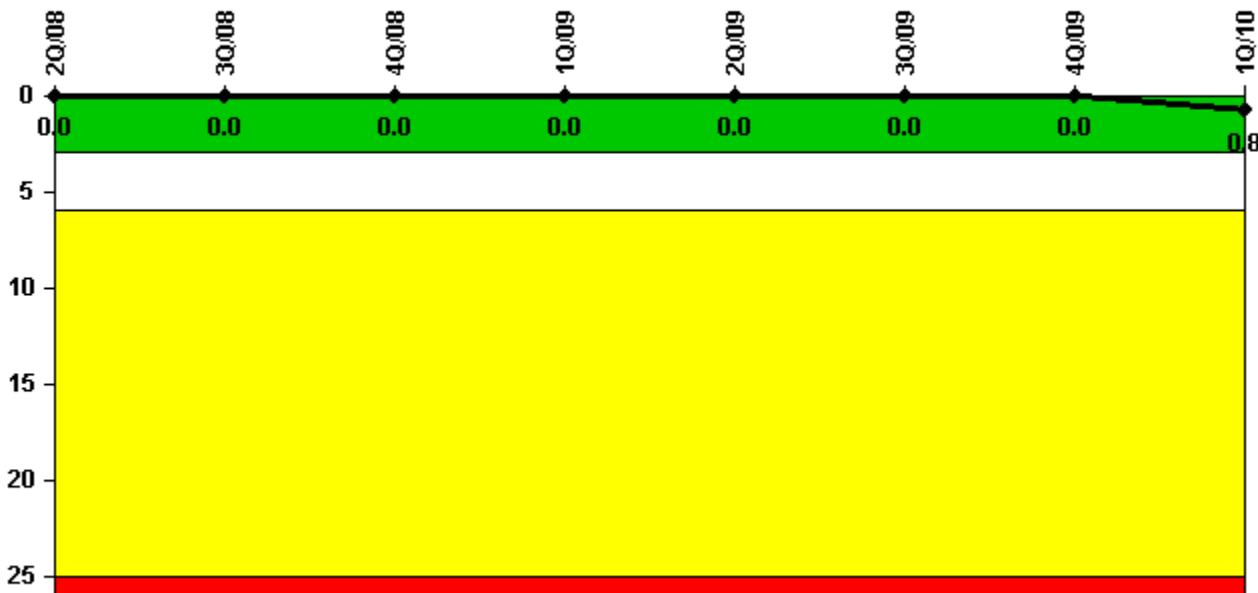
Last Modified: January 22, 2010

Calvert Cliffs 2

1Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



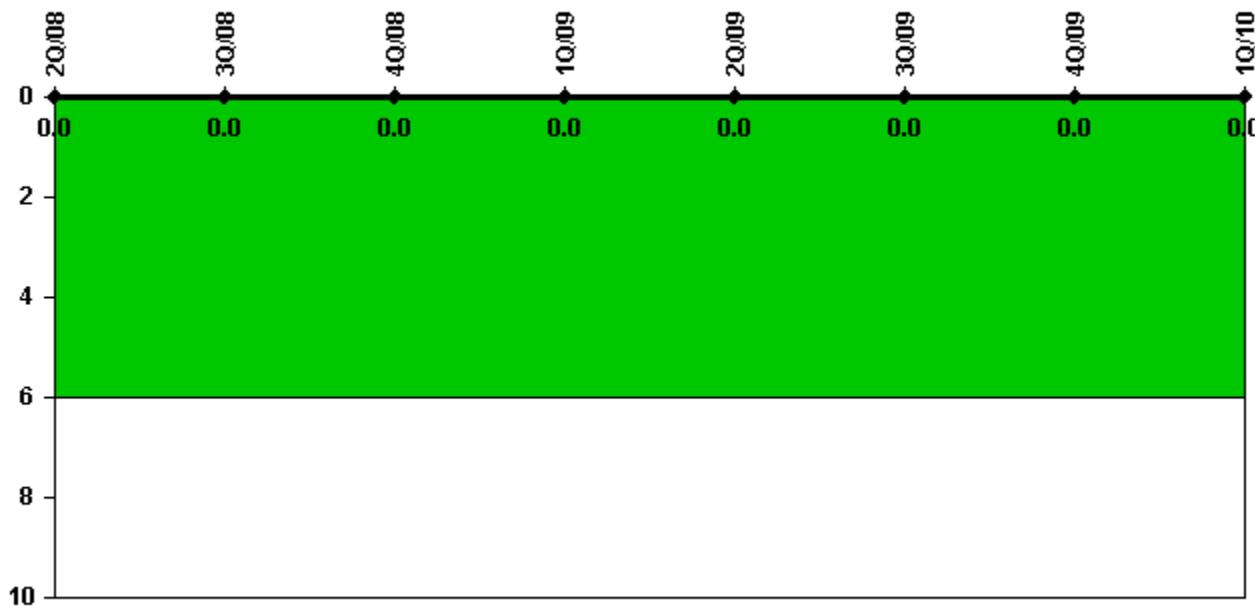
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	1.0
Critical hours	2184.0	2208.0	2209.0	1657.0	2184.0	2208.0	2209.0	1941.7
Indicator value	0	0	0	0	0	0	0	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



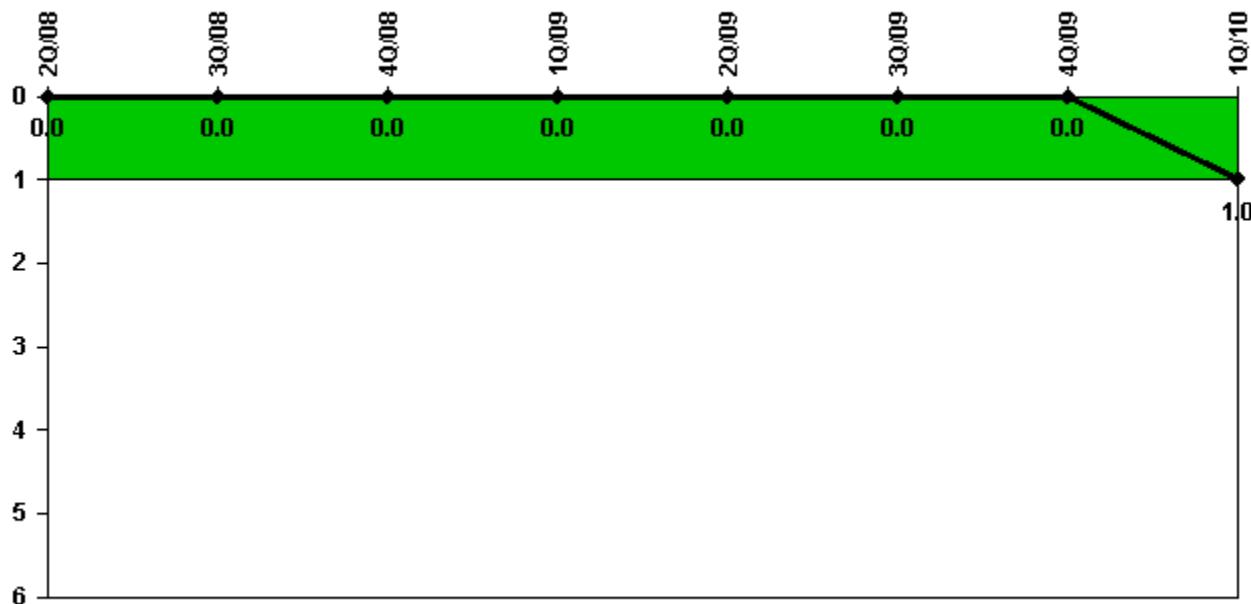
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	1657.0	2184.0	2208.0	2209.0	1941.7
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



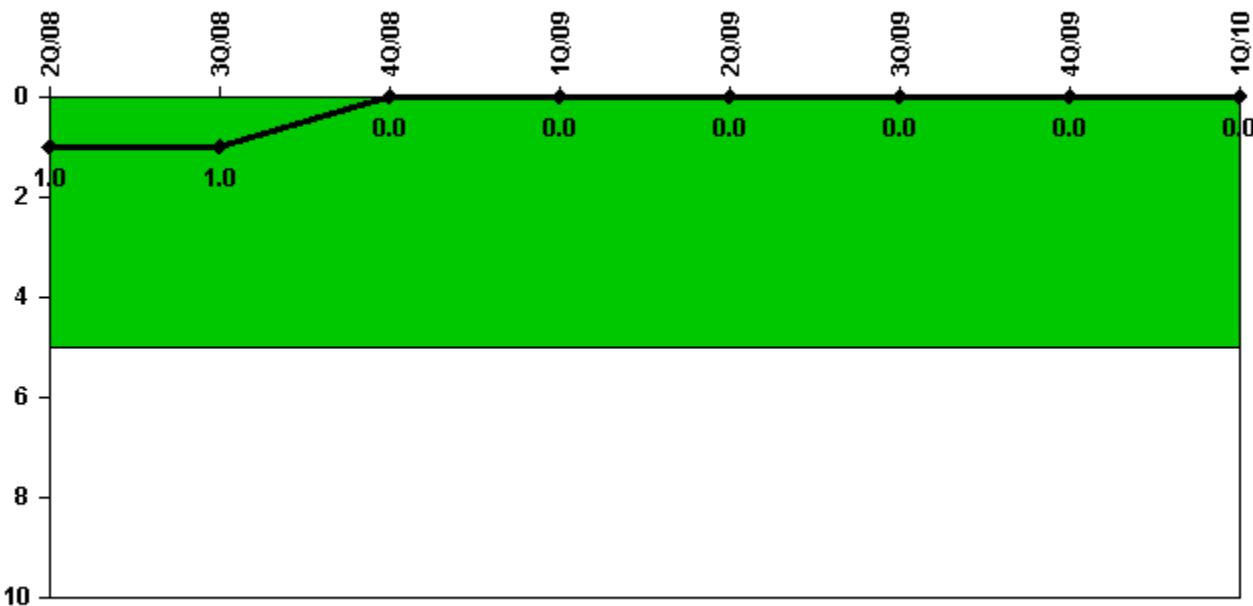
Thresholds: White > 1.0

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	1.0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0

Licensee Comments: none

Safety System Functional Failures (PWR)



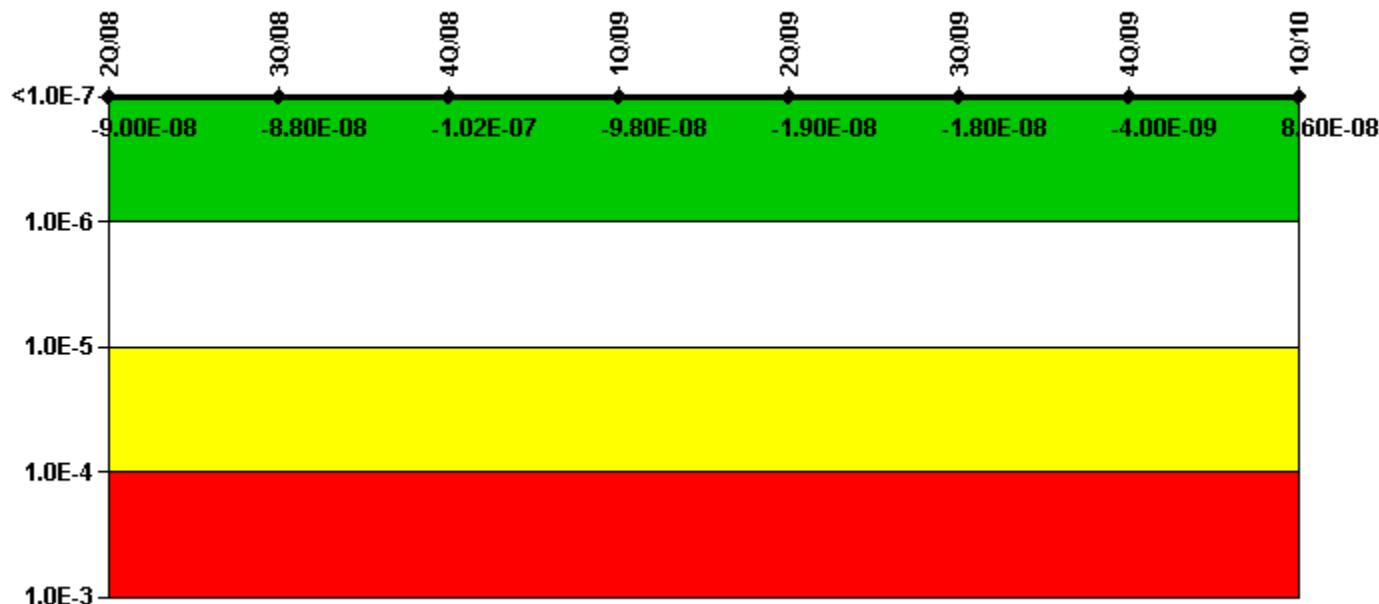
Thresholds: White > 5.0

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	1	1	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



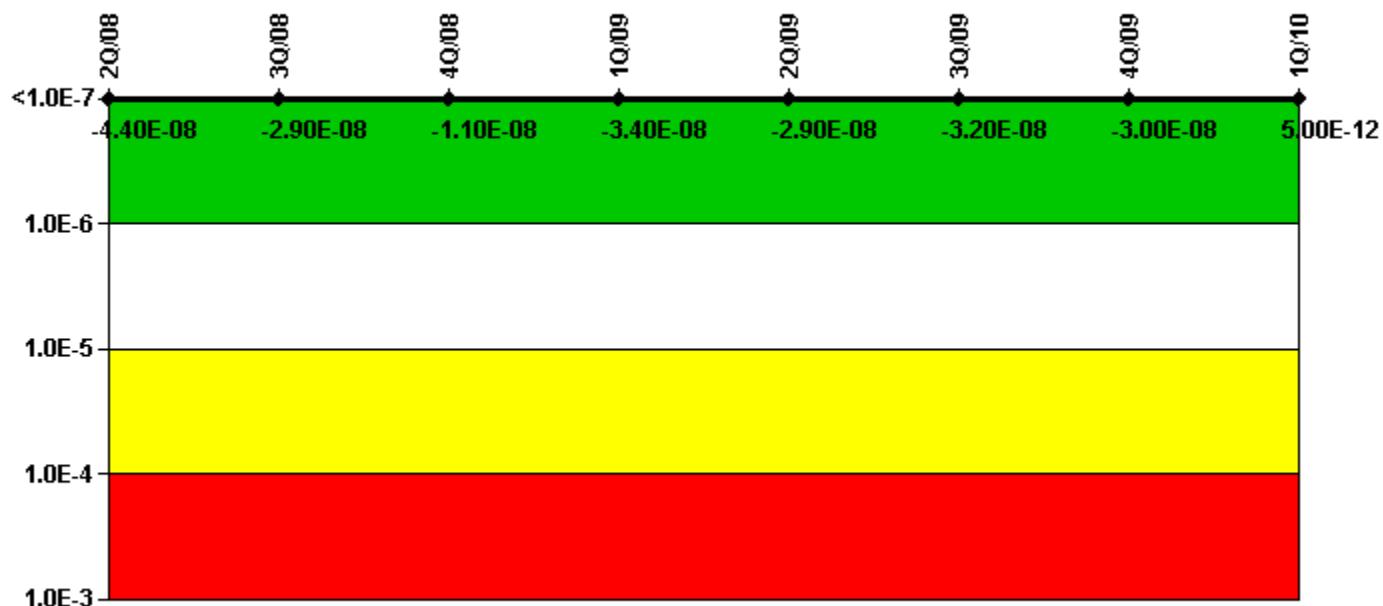
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	4.00E-08	4.20E-08	1.80E-08	2.20E-08	5.50E-08	5.60E-08	7.00E-08	1.00E-07
URI (Δ CDF)	-1.30E-07	-1.30E-07	-1.20E-07	-1.20E-07	-7.40E-08	-7.40E-08	-7.40E-08	-1.46E-08
PLE	NO	NO						
Indicator value	-9.00E-08	-8.80E-08	-1.02E-07	-9.80E-08	-1.90E-08	-1.80E-08	-4.00E-09	8.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



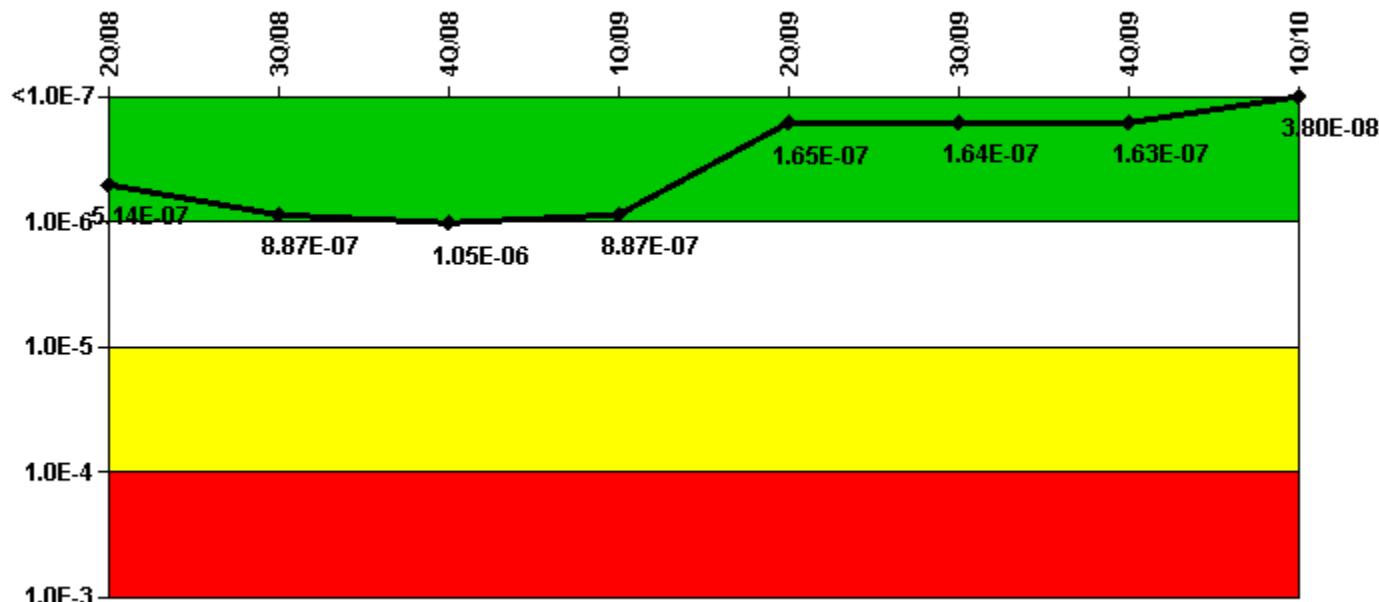
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	4.80E-08	6.10E-08	7.80E-08	6.00E-08	4.60E-08	4.20E-08	4.10E-08	6.40E-08
URI (Δ CDF)	-9.20E-08	-9.00E-08	-8.90E-08	-9.40E-08	-7.50E-08	-7.40E-08	-7.10E-08	-6.40E-08
PLE	NO	NO						
Indicator value	-4.40E-08	-2.90E-08	-1.10E-08	-3.40E-08	-2.90E-08	-3.20E-08	-3.00E-08	5.00E-12

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



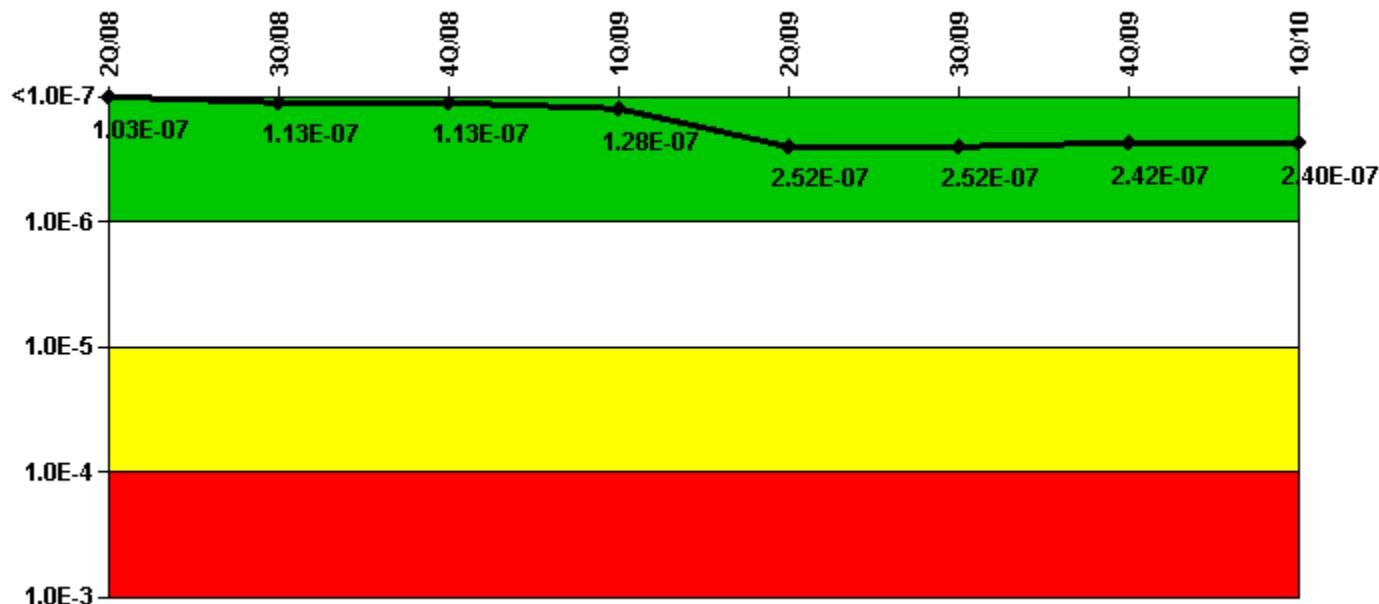
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	9.40E-08	8.70E-08	8.60E-08	4.70E-08	4.90E-09	3.50E-09	3.10E-09	1.31E-08
URI (Δ CDF)	4.20E-07	8.00E-07	9.60E-07	8.40E-07	1.60E-07	1.60E-07	1.60E-07	2.47E-08
PLE	NO							
Indicator value	5.14E-07	8.87E-07	1.05E-06	8.87E-07	1.65E-07	1.64E-07	1.63E-07	3.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



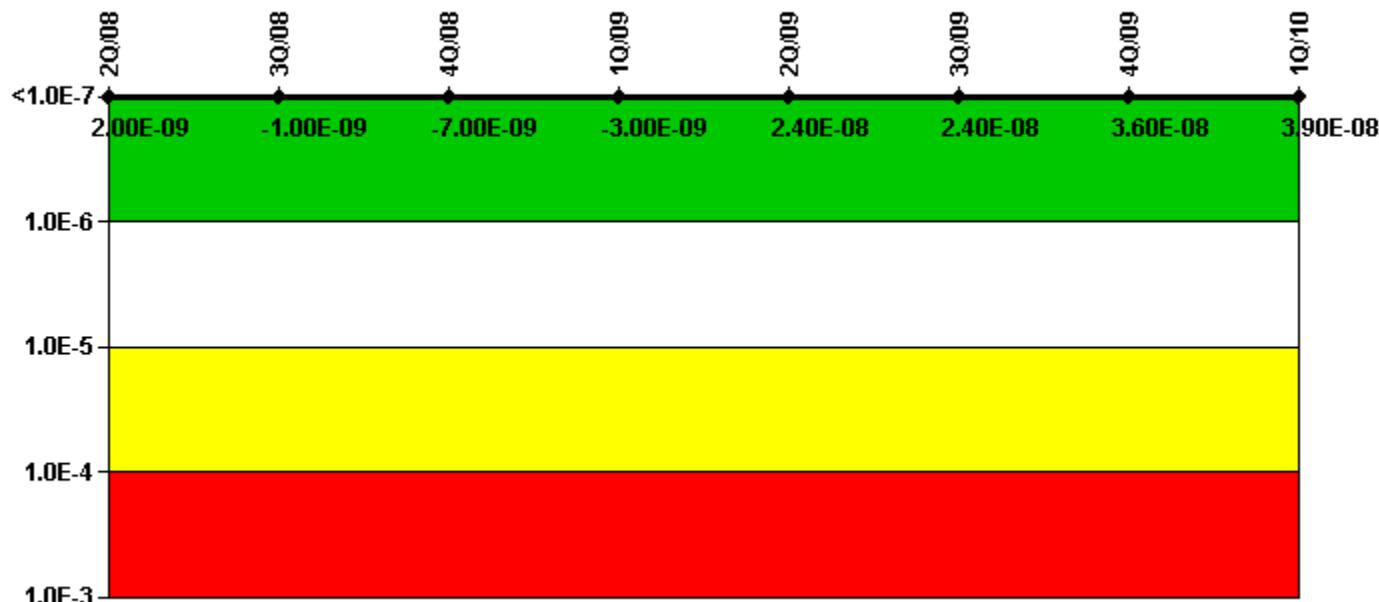
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	1.00E-07	1.10E-07	1.10E-07	1.20E-07	2.40E-07	2.40E-07	2.30E-07	2.25E-07
URI (Δ CDF)	2.50E-09	2.60E-09	2.70E-09	8.30E-09	1.20E-08	1.20E-08	1.20E-08	1.34E-08
PLE	NO							
Indicator value	1.03E-07	1.13E-07	1.13E-07	1.28E-07	2.52E-07	2.52E-07	2.42E-07	2.40E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



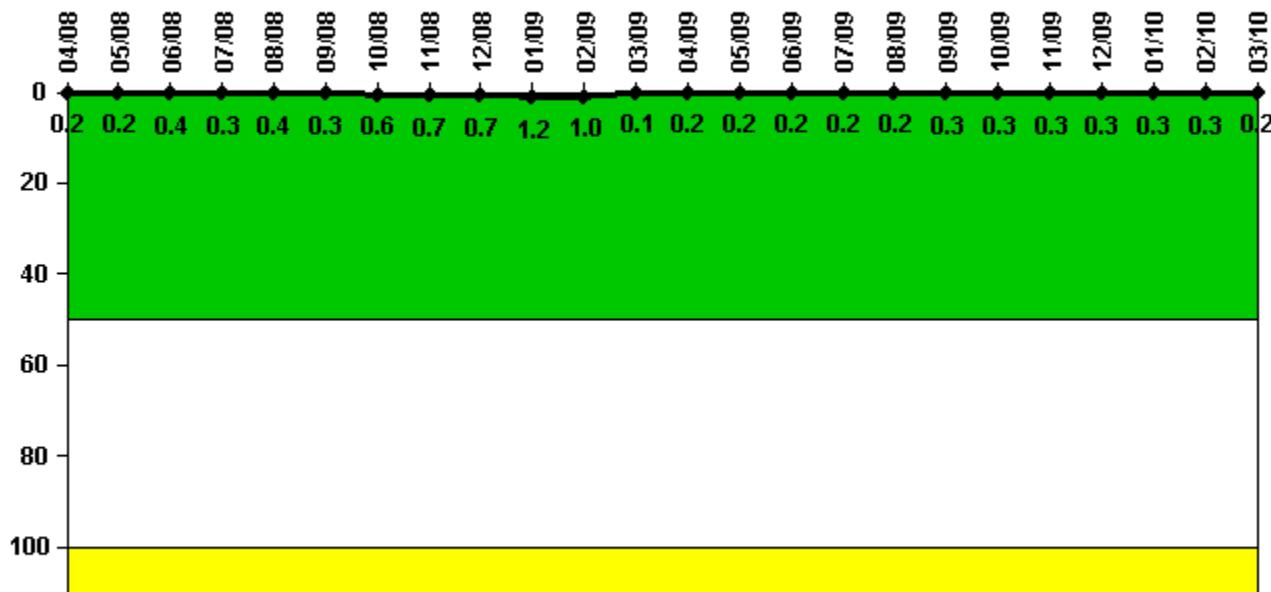
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	4.30E-08	3.10E-08	2.60E-08	3.10E-08	4.20E-08	4.20E-08	5.40E-08	5.72E-08
URI (Δ CDF)	-4.10E-08	-3.20E-08	-3.30E-08	-3.40E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.00E-09	-1.00E-09	-7.00E-09	-3.00E-09	2.40E-08	2.40E-08	3.60E-08	3.90E-08

Licensee Comments: none

Reactor Coolant System Activity



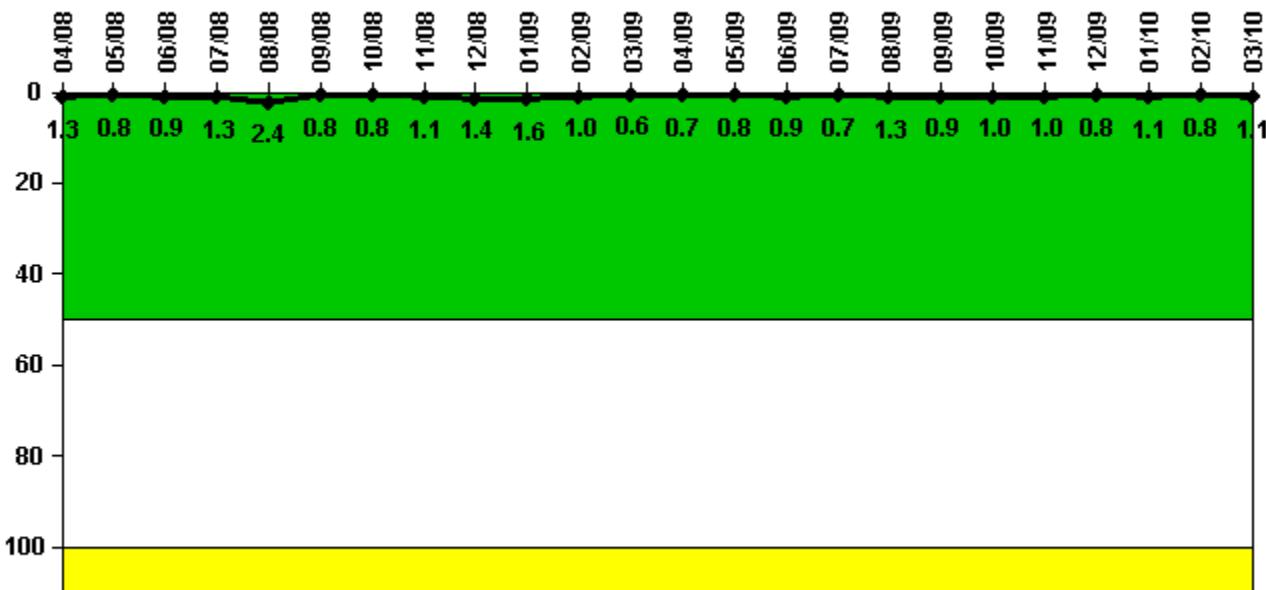
Thresholds: White > 50.0 Yellow > 100.0

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	0.002100	0.002290	0.003820	0.003180	0.004380	0.003470	0.005590	0.007390	0.006710	0.012200	0.010200	0.001360
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	0.2	0.2	0.4	0.3	0.4	0.3	0.6	0.7	0.7	1.2	1.0	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	0.002030	0.002060	0.002060	0.002430	0.002440	0.002560	0.002540	0.002950	0.003020	0.002880	0.003080	0.002190
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	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2

Licensee Comments: none

Reactor Coolant System Leakage



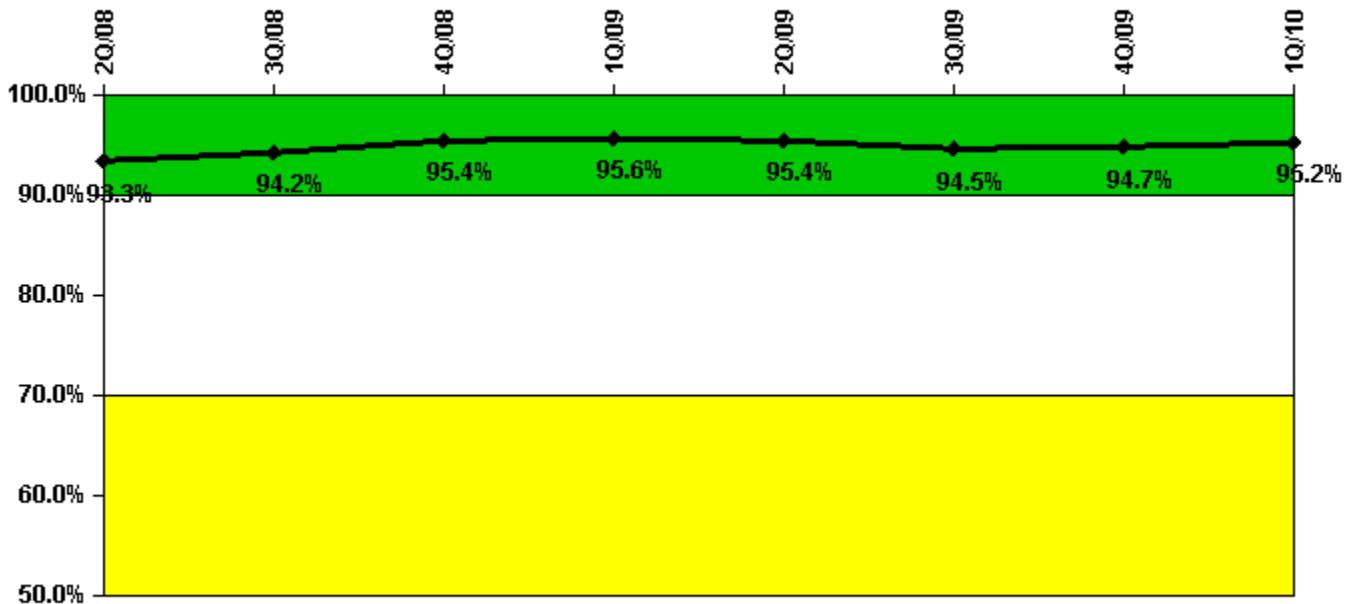
Thresholds: White > 50.0 Yellow > 100.0

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	0.130	0.080	0.090	0.130	0.240	0.080	0.080	0.110	0.140	0.160	0.100	0.060
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	1.3	0.8	0.9	1.3	2.4	0.8	0.8	1.1	1.4	1.6	1.0	0.6
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	0.070	0.080	0.090	0.070	0.130	0.090	0.100	0.100	0.080	0.110	0.080	0.110
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	0.7	0.8	0.9	0.7	1.3	0.9	1.0	1.0	0.8	1.1	0.8	1.1

Licensee Comments: none

Drill/Exercise Performance



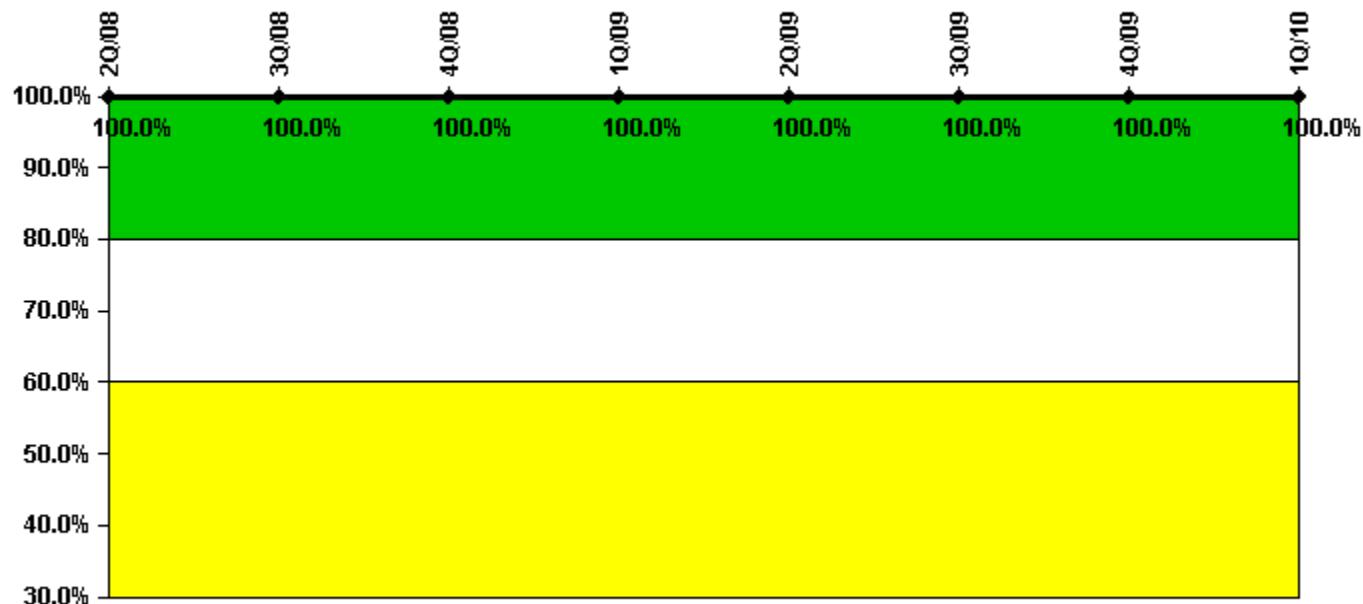
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful opportunities	26.0	40.0	52.0	10.0	30.0	43.0	63.0	13.0
Total opportunities	27.0	40.0	59.0	10.0	32.0	46.0	64.0	13.0
Indicator value	93.3%	94.2%	95.4%	95.6%	95.4%	94.5%	94.7%	95.2%

Licensee Comments: none

ERO Drill Participation



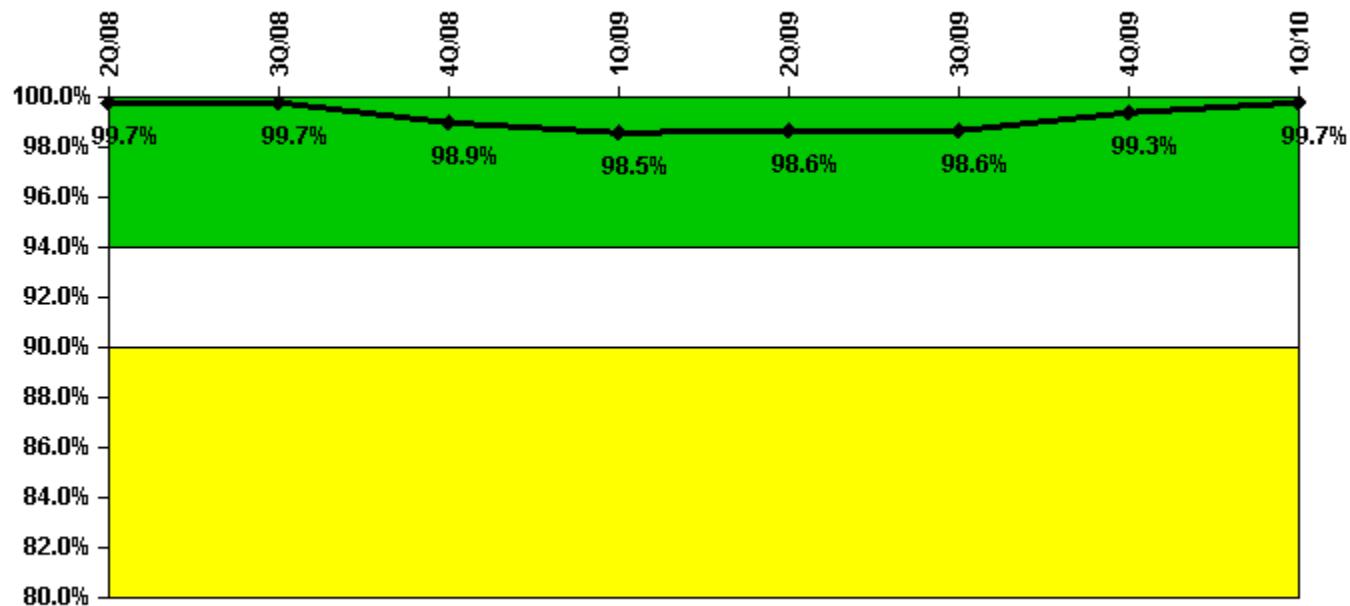
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Participating Key personnel	87.0	86.0	84.0	88.0	98.0	101.0	95.0	98.0
Total Key personnel	87.0	86.0	84.0	88.0	98.0	101.0	95.0	98.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



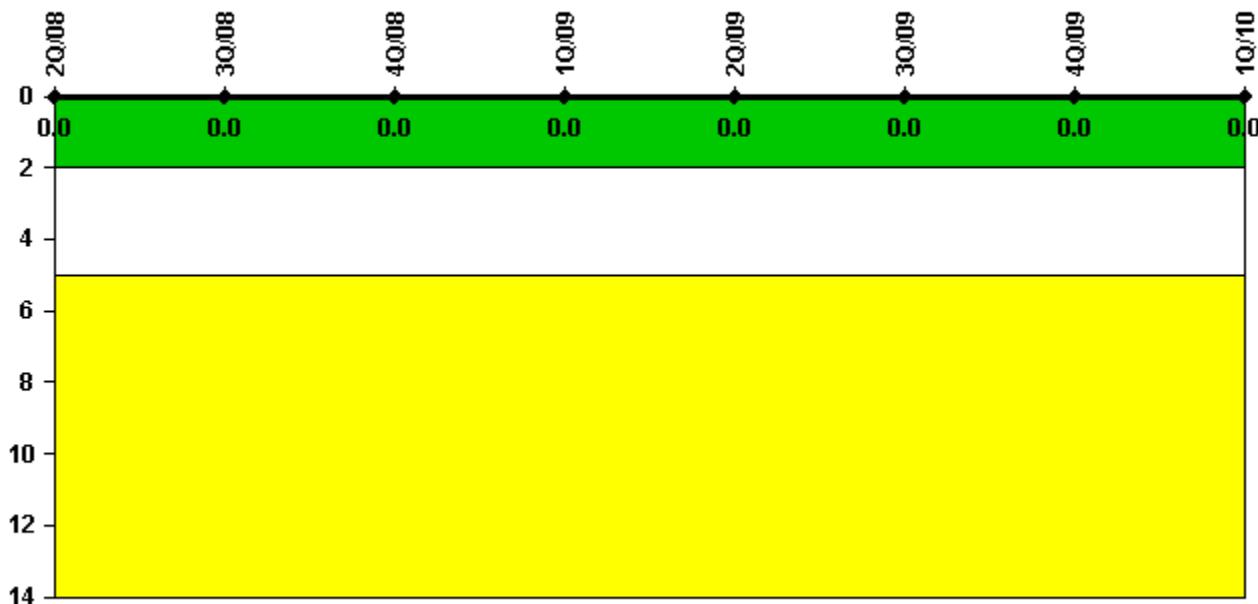
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful siren-tests	946	946	916	932	948	947	942	948
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.7%	99.7%	98.9%	98.5%	98.6%	98.6%	99.3%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



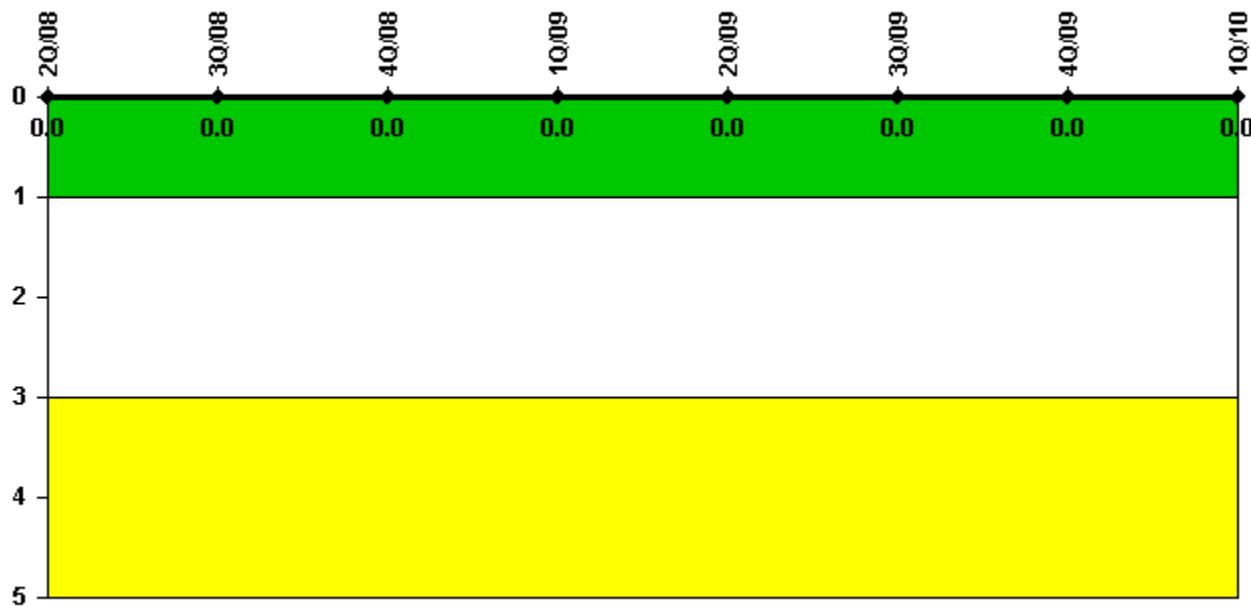
Thresholds: White > 2.0 Yellow > 5.0

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

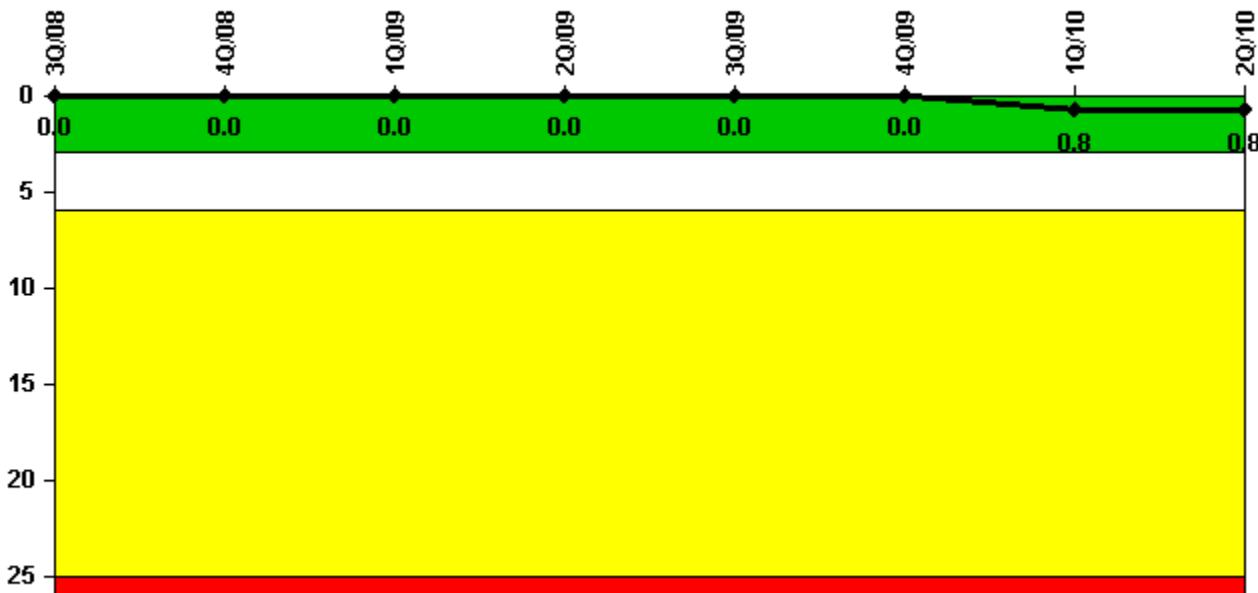
[Security](#) information not publicly available.

Calvert Cliffs 2

2Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



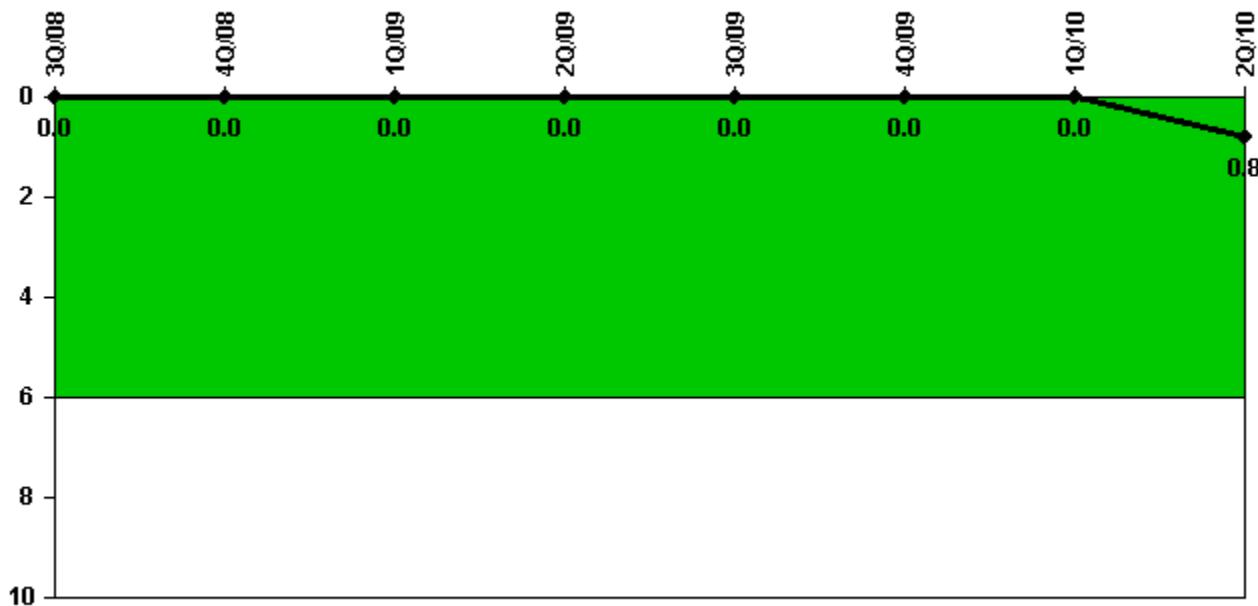
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	1.0	0
Critical hours	2208.0	2209.0	1657.0	2184.0	2208.0	2209.0	1941.7	2184.0
Indicator value	0	0	0	0	0	0	0.8	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



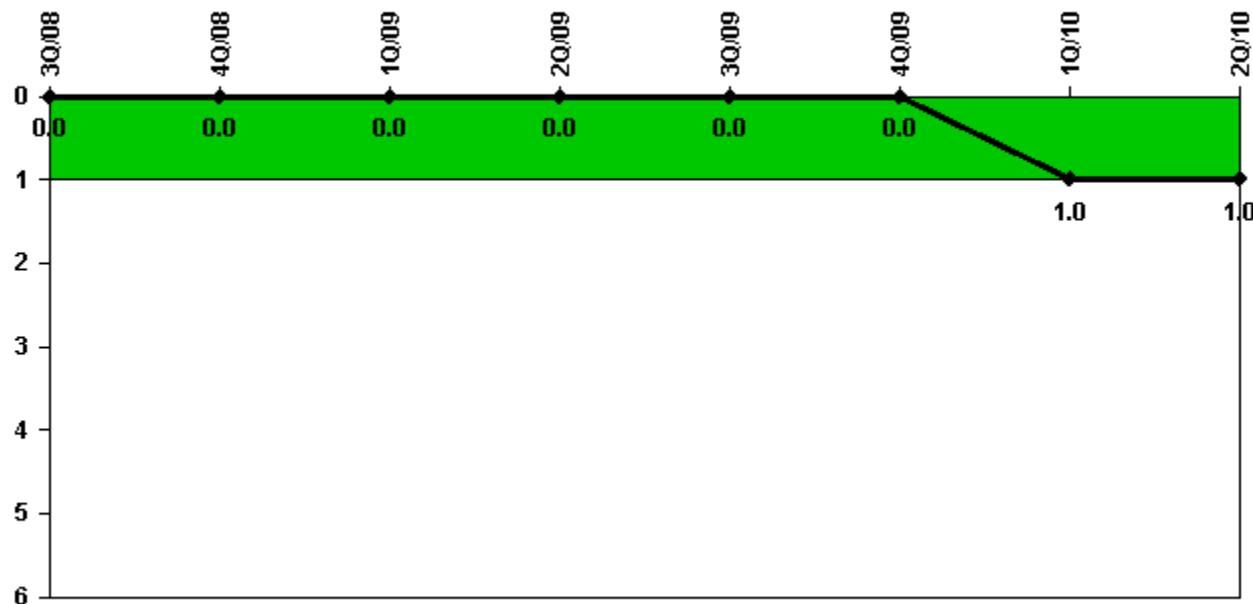
Thresholds: White > 6.0

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	1.0
Critical hours	2208.0	2209.0	1657.0	2184.0	2208.0	2209.0	1941.7	2184.0
Indicator value	0	0	0	0	0	0	0	0.8

Licensee Comments: none

Unplanned Scrams with Complications



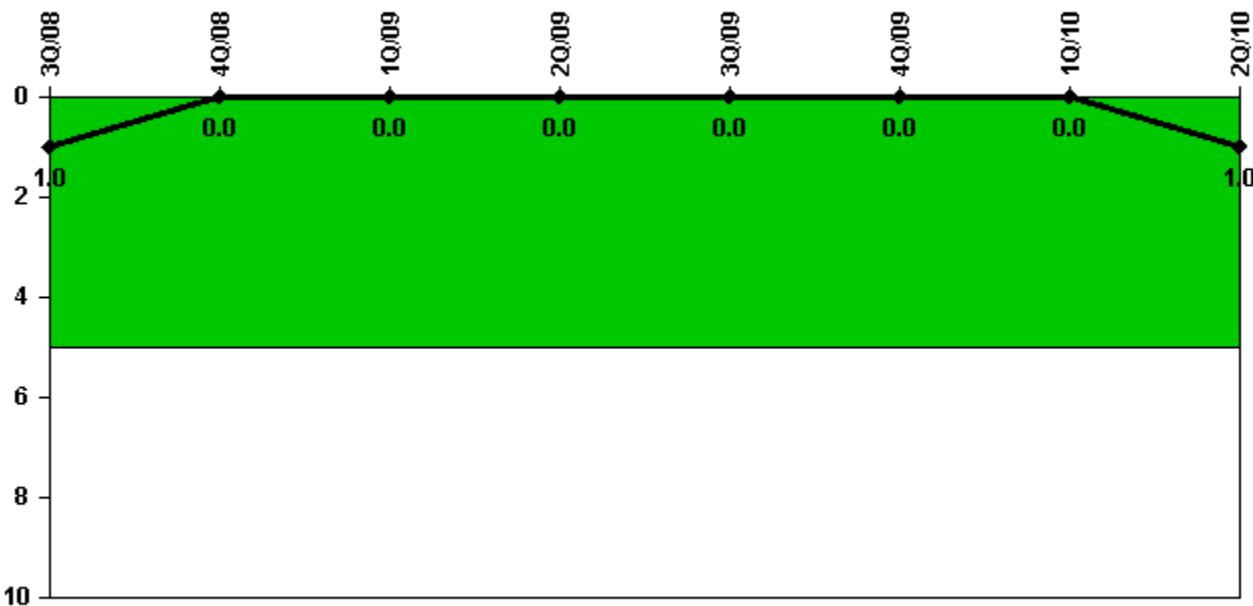
Thresholds: White > 1.0

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	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)



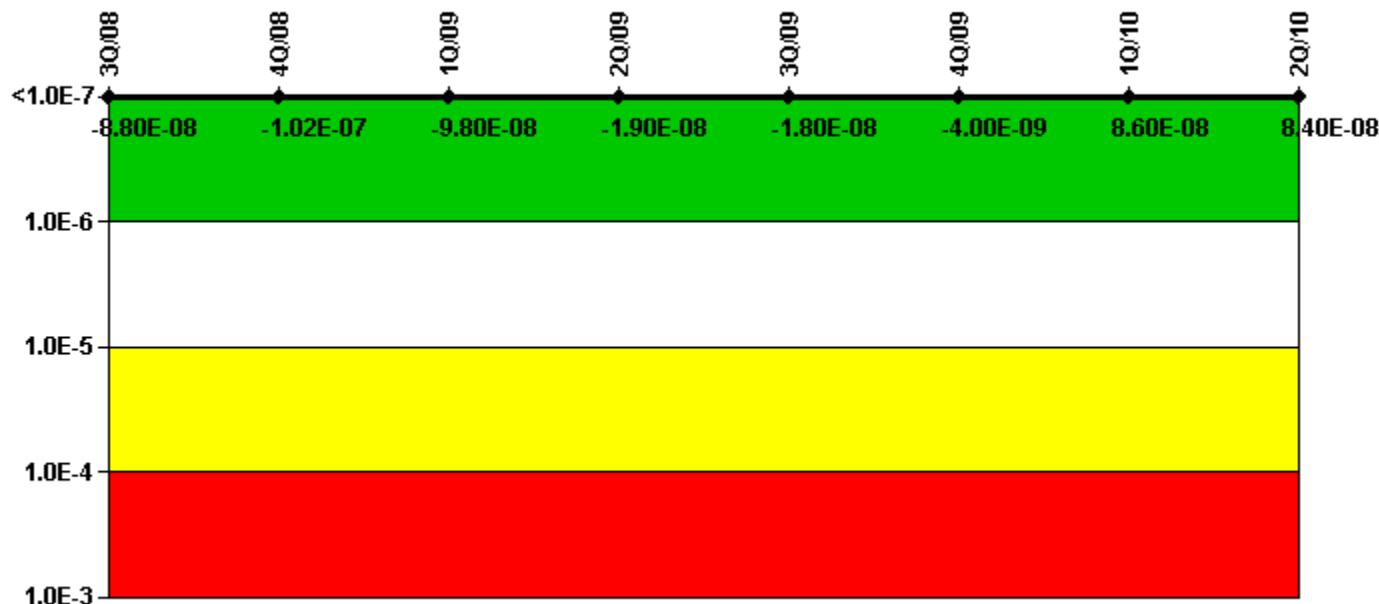
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	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	1
Indicator value	1	0	0	0	0	0	0	1

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



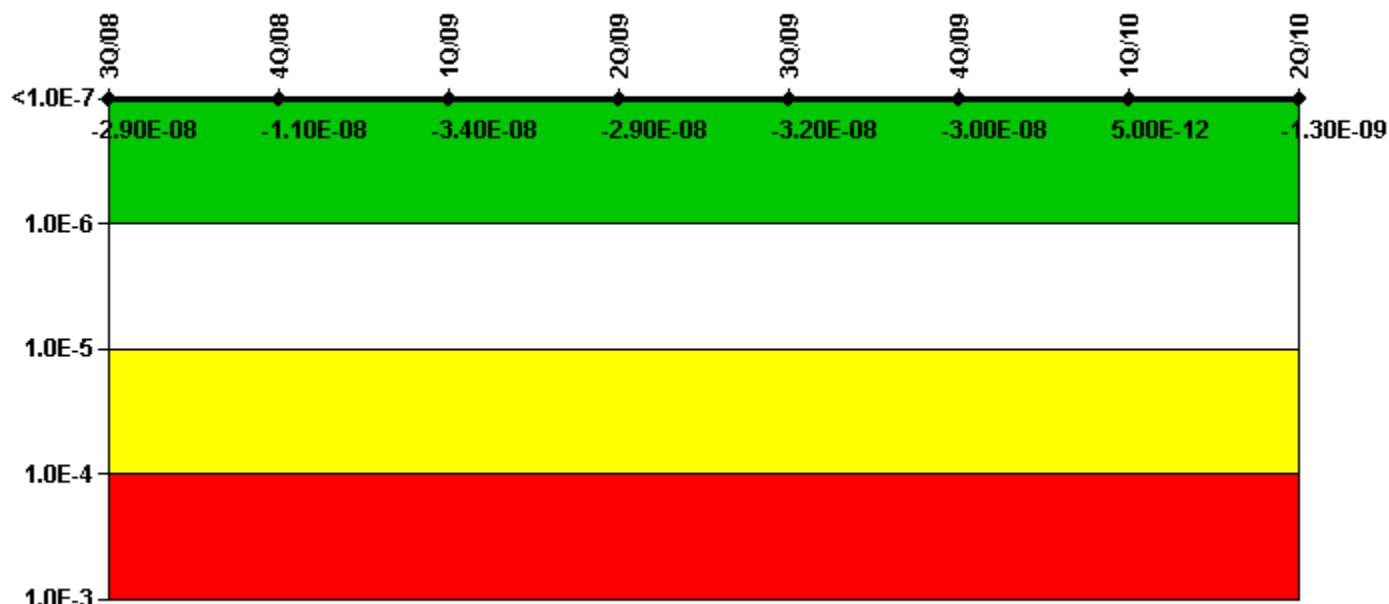
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	4.20E-08	1.80E-08	2.20E-08	5.50E-08	5.60E-08	7.00E-08	1.00E-07	9.77E-08
URI (Δ CDF)	-1.30E-07	-1.20E-07	-1.20E-07	-7.40E-08	-7.40E-08	-7.40E-08	-1.46E-08	-1.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.80E-08	-1.02E-07	-9.80E-08	-1.90E-08	-1.80E-08	-4.00E-09	8.60E-08	8.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



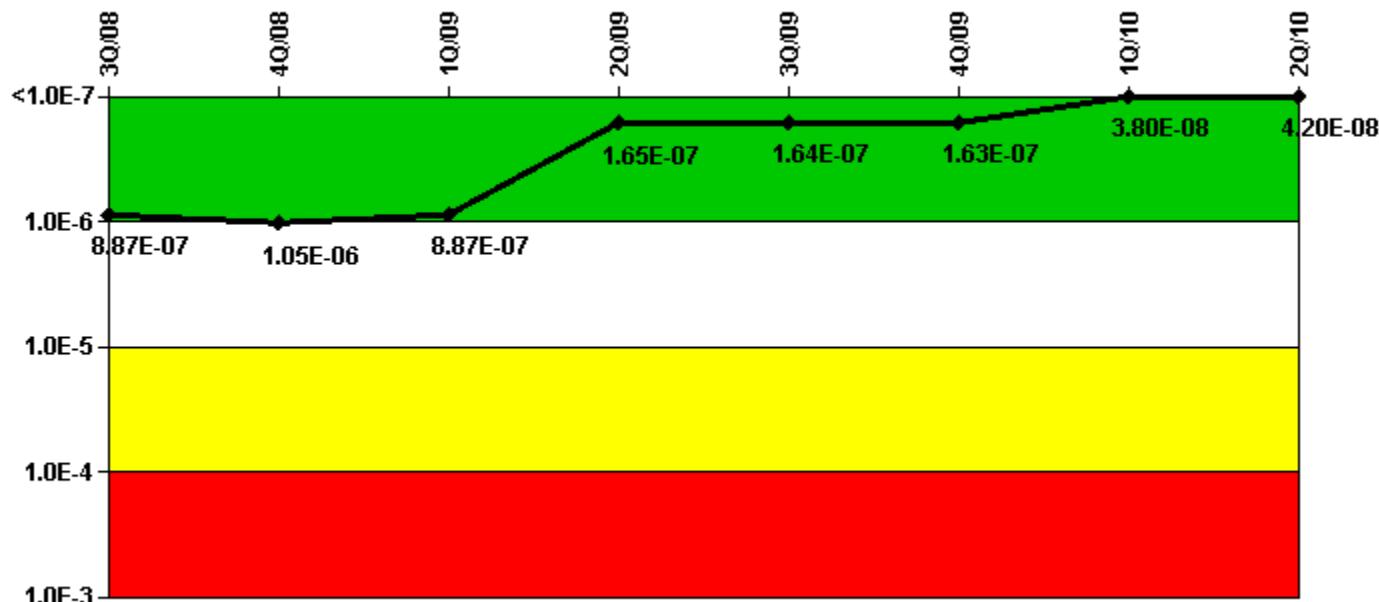
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	6.10E-08	7.80E-08	6.00E-08	4.60E-08	4.20E-08	4.10E-08	6.40E-08	6.19E-08
URI (Δ CDF)	-9.00E-08	-8.90E-08	-9.40E-08	-7.50E-08	-7.40E-08	-7.10E-08	-6.40E-08	-6.31E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-08	-1.10E-08	-3.40E-08	-2.90E-08	-3.20E-08	-3.00E-08	5.00E-12	-1.30E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



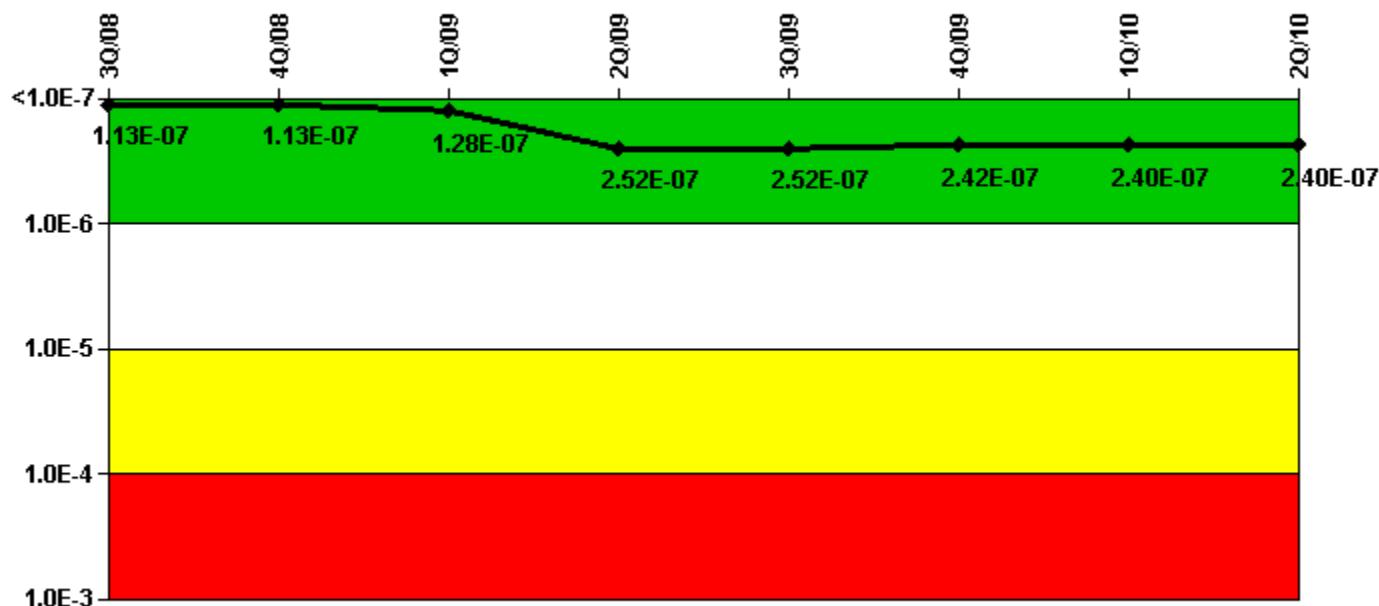
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	8.70E-08	8.60E-08	4.70E-08	4.90E-09	3.50E-09	3.10E-09	1.31E-08	1.24E-08
URI (Δ CDF)	8.00E-07	9.60E-07	8.40E-07	1.60E-07	1.60E-07	1.60E-07	2.47E-08	2.99E-08
PLE	NO							
Indicator value	8.87E-07	1.05E-06	8.87E-07	1.65E-07	1.64E-07	1.63E-07	3.80E-08	4.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



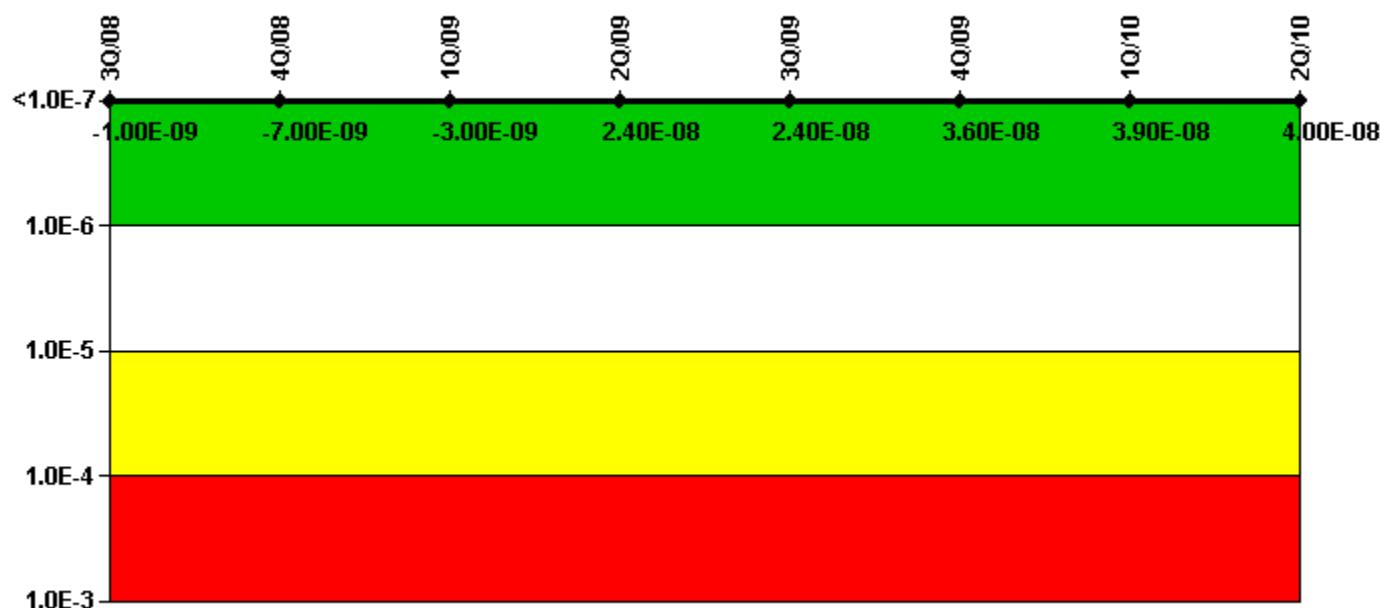
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	1.10E-07	1.10E-07	1.20E-07	2.40E-07	2.40E-07	2.30E-07	2.25E-07	2.23E-07
URI (Δ CDF)	2.60E-09	2.70E-09	8.30E-09	1.20E-08	1.20E-08	1.20E-08	1.34E-08	1.39E-08
PLE	NO							
Indicator value	1.13E-07	1.13E-07	1.28E-07	2.52E-07	2.52E-07	2.42E-07	2.40E-07	2.40E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



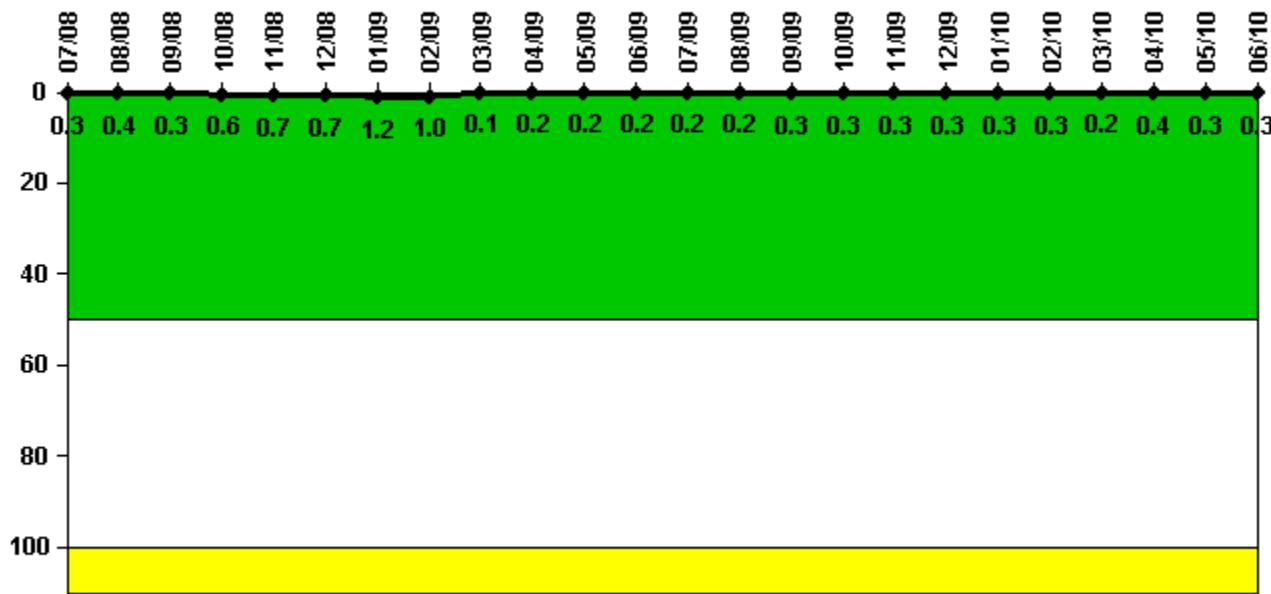
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	3.10E-08	2.60E-08	3.10E-08	4.20E-08	4.20E-08	5.40E-08	5.72E-08	5.85E-08
URI (Δ CDF)	-3.20E-08	-3.30E-08	-3.40E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.00E-09	-7.00E-09	-3.00E-09	2.40E-08	2.40E-08	3.60E-08	3.90E-08	4.00E-08

Licensee Comments: none

Reactor Coolant System Activity



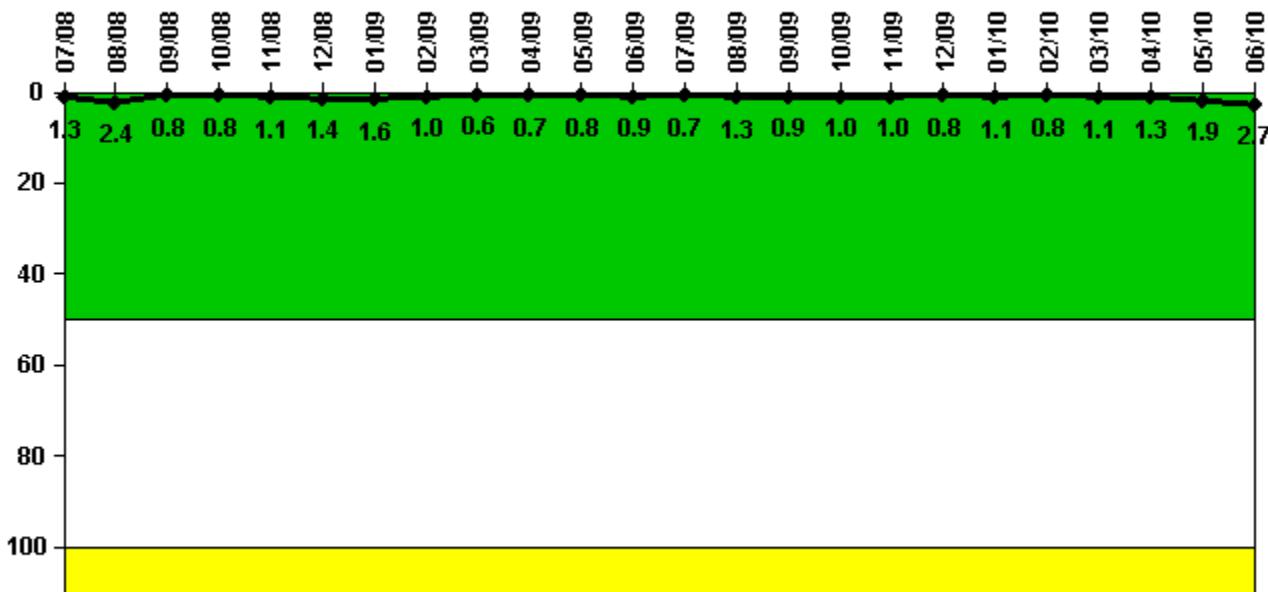
Thresholds: White > 50.0 Yellow > 100.0

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	0.003180	0.004380	0.003470	0.005590	0.007390	0.006710	0.012200	0.010200	0.001360	0.002030	0.002060	0.002060
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	0.3	0.4	0.3	0.6	0.7	0.7	1.2	1.0	0.1	0.2	0.2	0.2
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	0.002430	0.002440	0.002560	0.002540	0.002950	0.003020	0.002880	0.003080	0.002190	0.003500	0.003240	0.003420
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	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.4	0.3	0.3

Licensee Comments: none

Reactor Coolant System Leakage



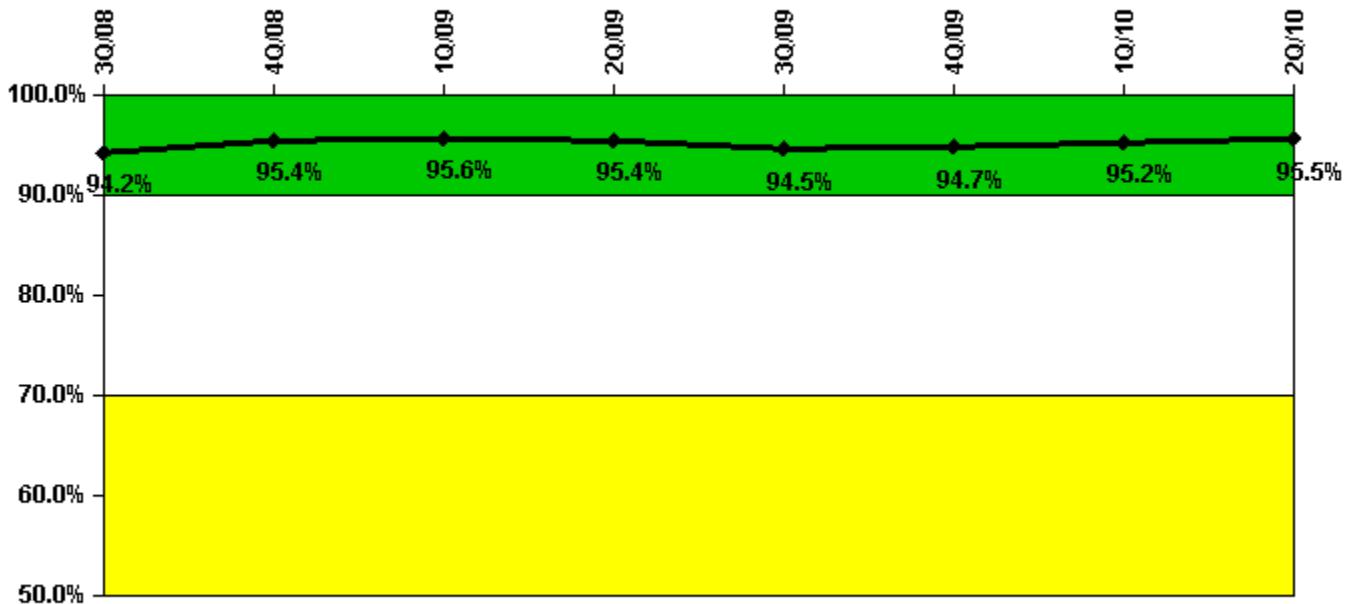
Thresholds: White > 50.0 Yellow > 100.0

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	0.130	0.240	0.080	0.080	0.110	0.140	0.160	0.100	0.060	0.070	0.080	0.090
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	1.3	2.4	0.8	0.8	1.1	1.4	1.6	1.0	0.6	0.7	0.8	0.9
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	0.070	0.130	0.090	0.100	0.100	0.080	0.110	0.080	0.110	0.134	0.190	0.270
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	0.7	1.3	0.9	1.0	1.0	0.8	1.1	0.8	1.1	1.3	1.9	2.7

Licensee Comments: none

Drill/Exercise Performance



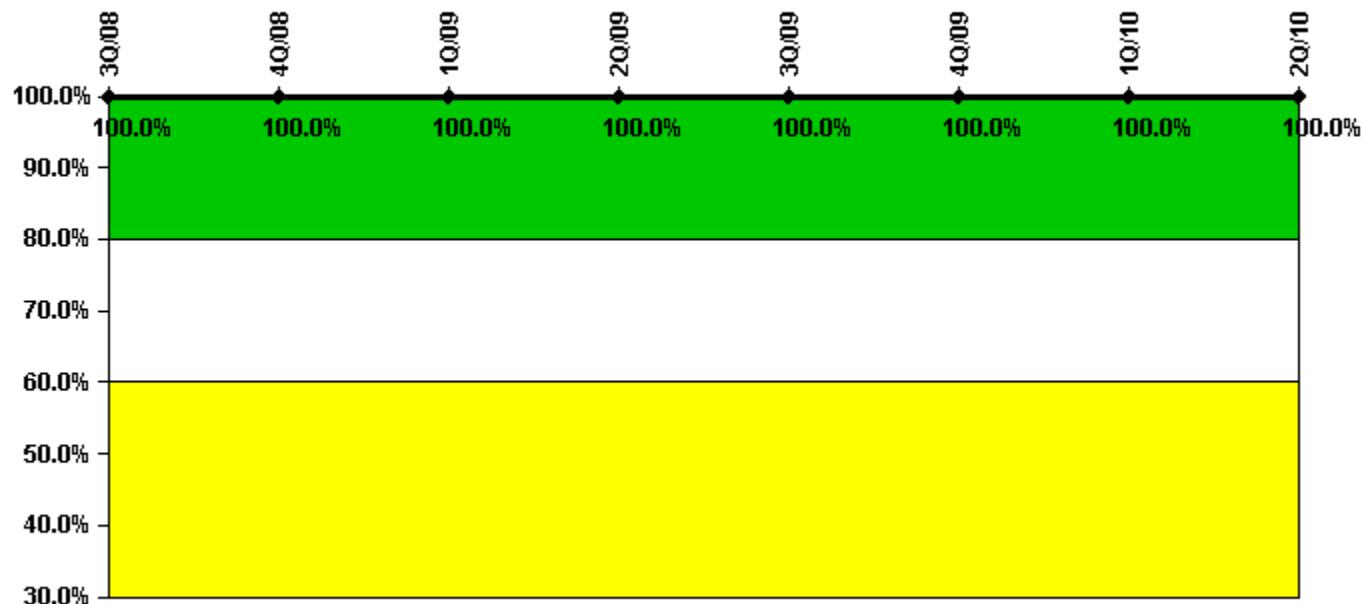
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful opportunities	40.0	52.0	10.0	30.0	43.0	63.0	13.0	23.0
Total opportunities	40.0	59.0	10.0	32.0	46.0	64.0	13.0	23.0
Indicator value	94.2%	95.4%	95.6%	95.4%	94.5%	94.7%	95.2%	95.5%

Licensee Comments: none

ERO Drill Participation



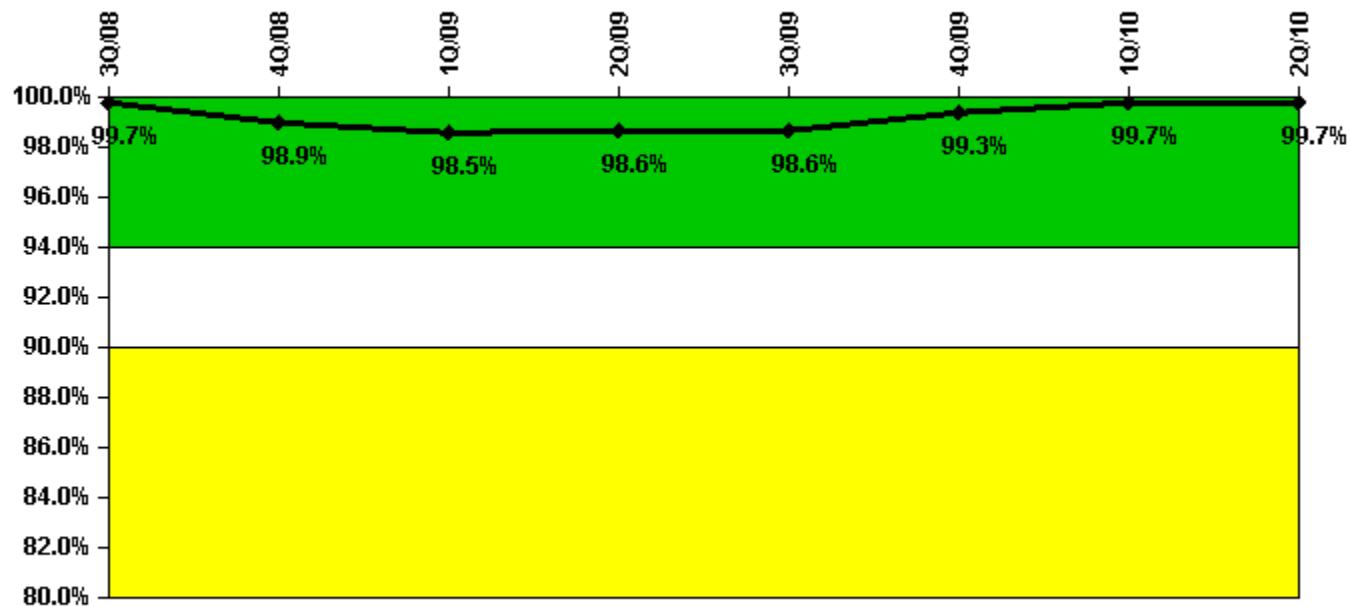
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Participating Key personnel	86.0	84.0	88.0	98.0	101.0	95.0	98.0	87.0
Total Key personnel	86.0	84.0	88.0	98.0	101.0	95.0	98.0	87.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



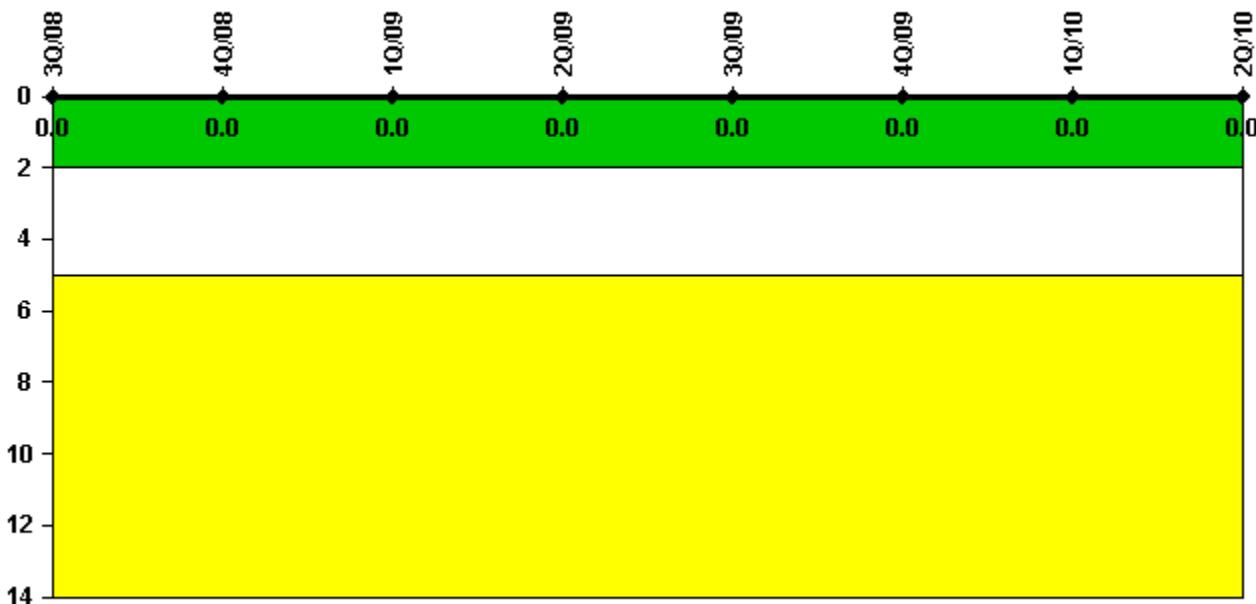
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful siren-tests	946	916	932	948	947	942	948	948
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.7%	98.9%	98.5%	98.6%	98.6%	99.3%	99.7%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



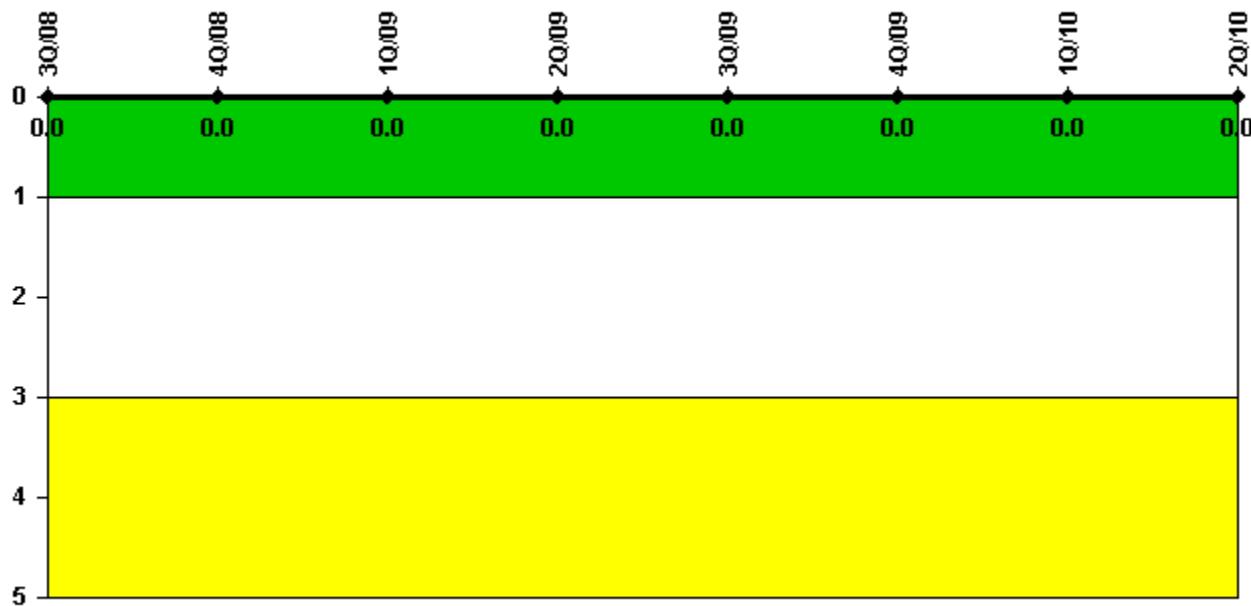
Thresholds: White > 2.0 Yellow > 5.0

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

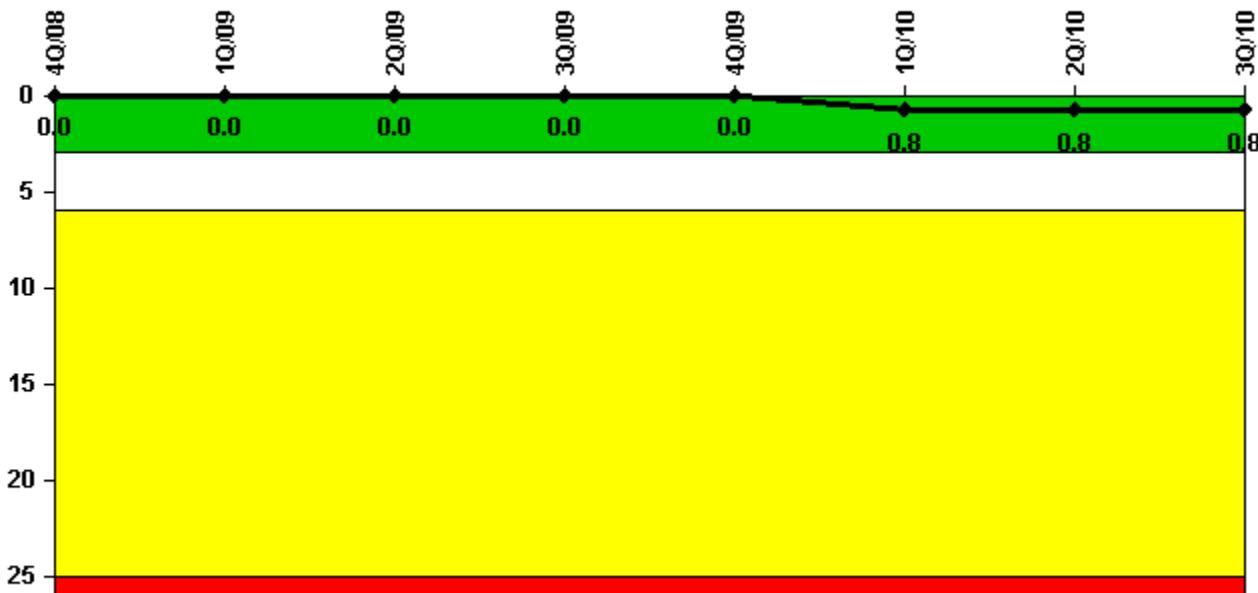
Security information not publicly available.

Calvert Cliffs 2

3Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



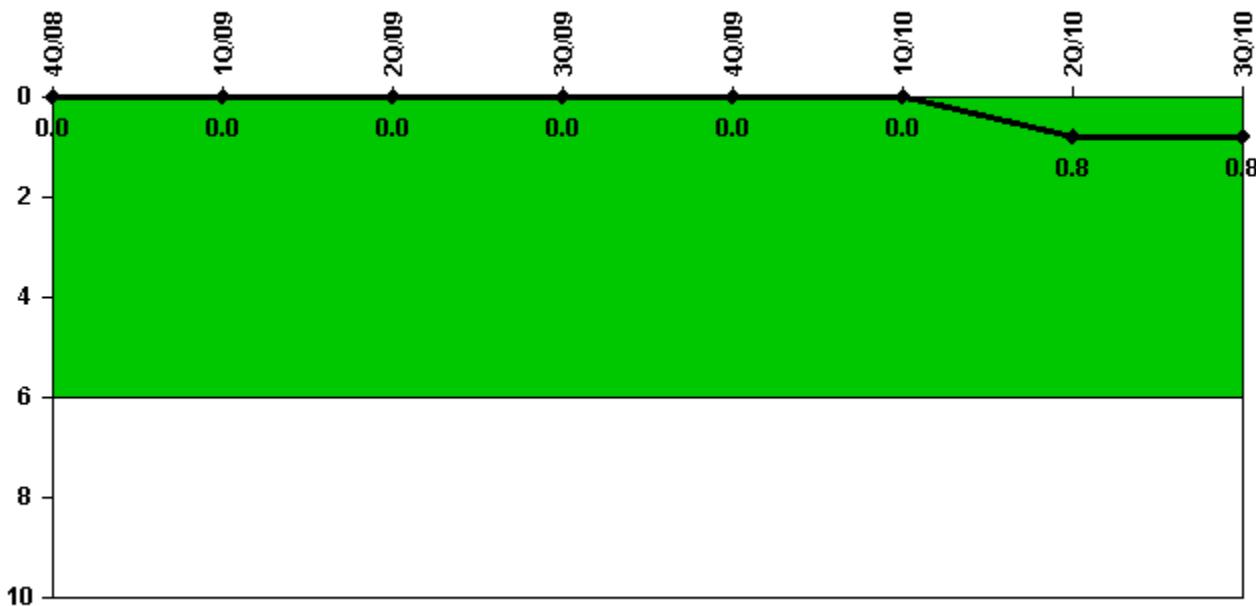
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	1.0	0	0
Critical hours	2209.0	1657.0	2184.0	2208.0	2209.0	1941.7	2184.0	2208.0
Indicator value	0	0	0	0	0	0.8	0.8	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



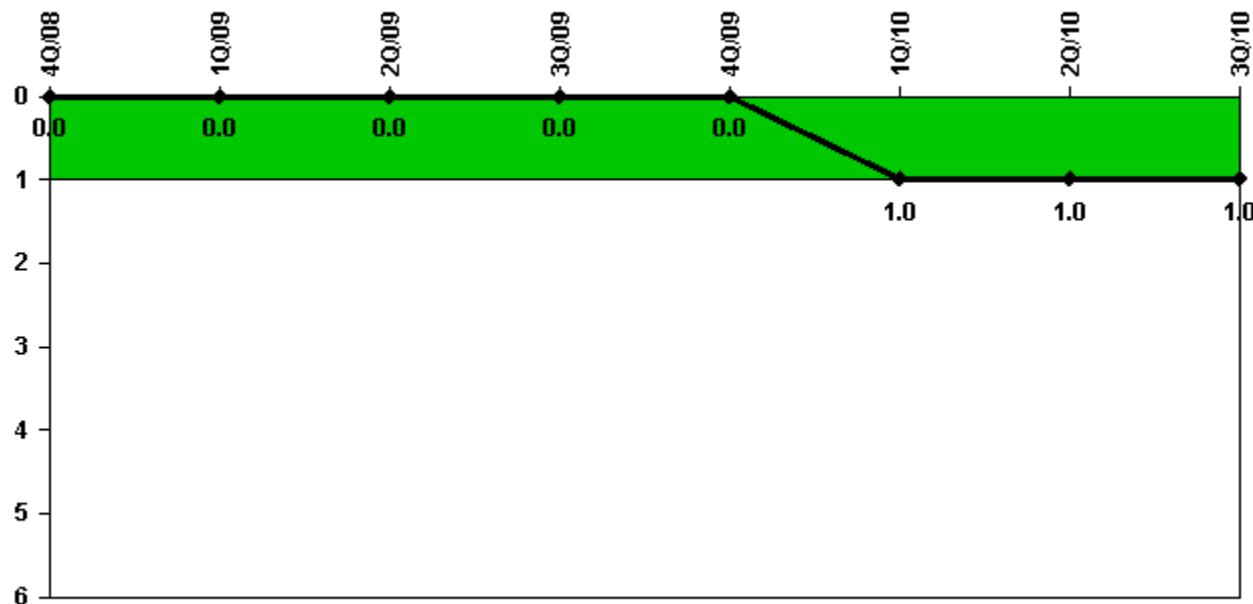
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2209.0	1657.0	2184.0	2208.0	2209.0	1941.7	2184.0	2208.0
Indicator value	0	0	0	0	0	0	0.8	0.8

Licensee Comments: none

Unplanned Scrams with Complications



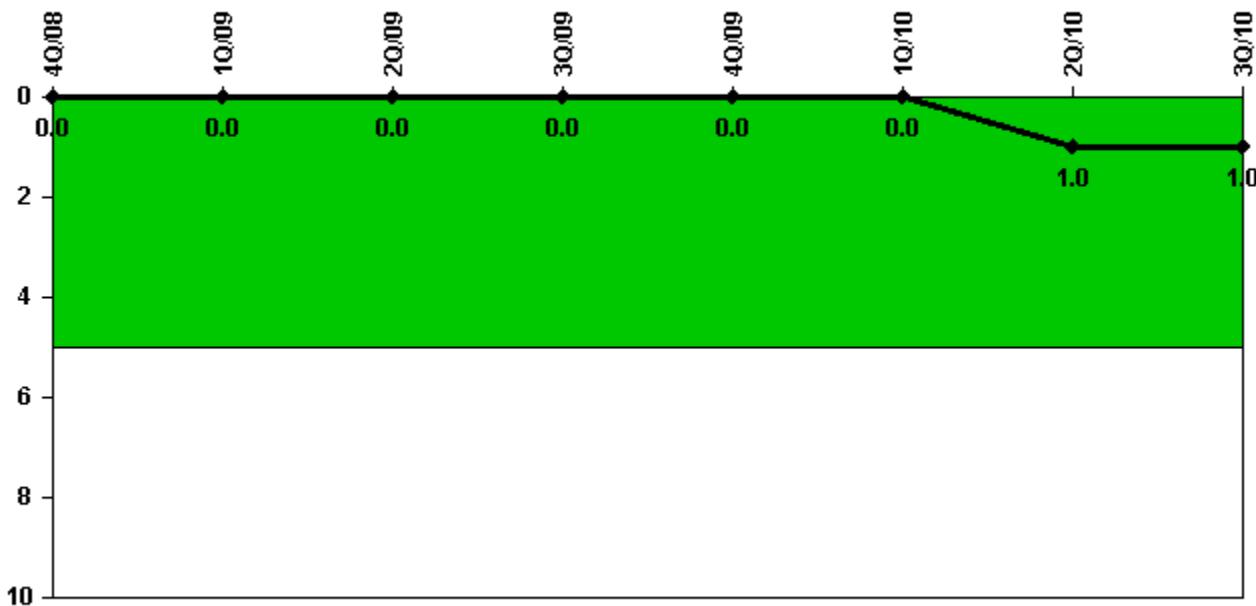
Thresholds: White > 1.0

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	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)



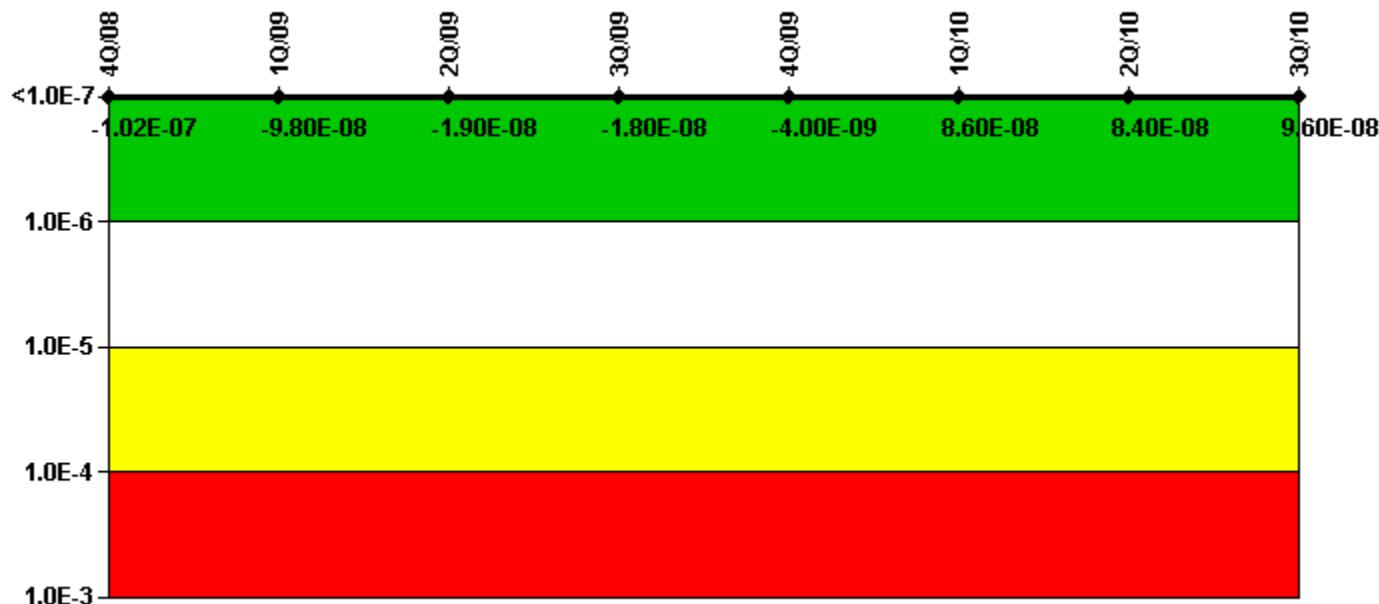
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	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	1	0
Indicator value	0	0	0	0	0	0	1	1

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



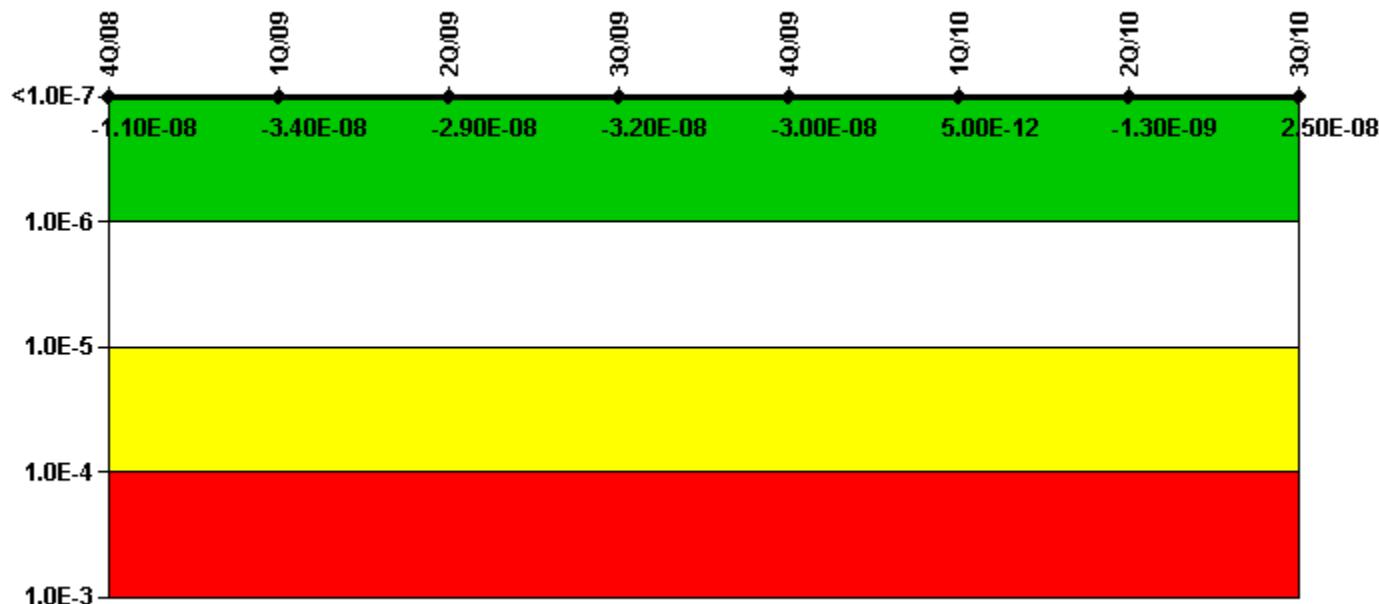
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	1.80E-08	2.20E-08	5.50E-08	5.60E-08	7.00E-08	1.00E-07	9.77E-08	1.11E-07
URI (Δ CDF)	-1.20E-07	-1.20E-07	-7.40E-08	-7.40E-08	-7.40E-08	-1.46E-08	-1.40E-08	-1.45E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.02E-07	-9.80E-08	-1.90E-08	-1.80E-08	-4.00E-09	8.60E-08	8.40E-08	9.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



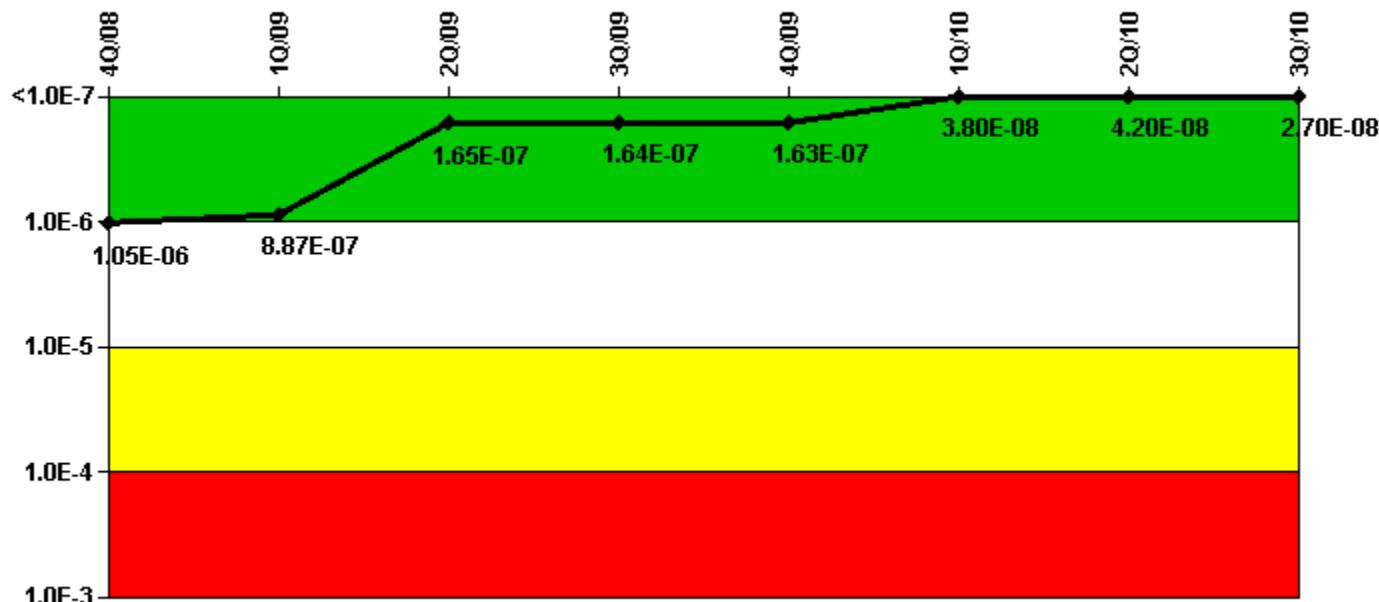
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	7.80E-08	6.00E-08	4.60E-08	4.20E-08	4.10E-08	6.40E-08	6.19E-08	8.72E-08
URI (Δ CDF)	-8.90E-08	-9.40E-08	-7.50E-08	-7.40E-08	-7.10E-08	-6.40E-08	-6.31E-08	-6.18E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-08	-3.40E-08	-2.90E-08	-3.20E-08	-3.00E-08	5.00E-12	-1.30E-09	2.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



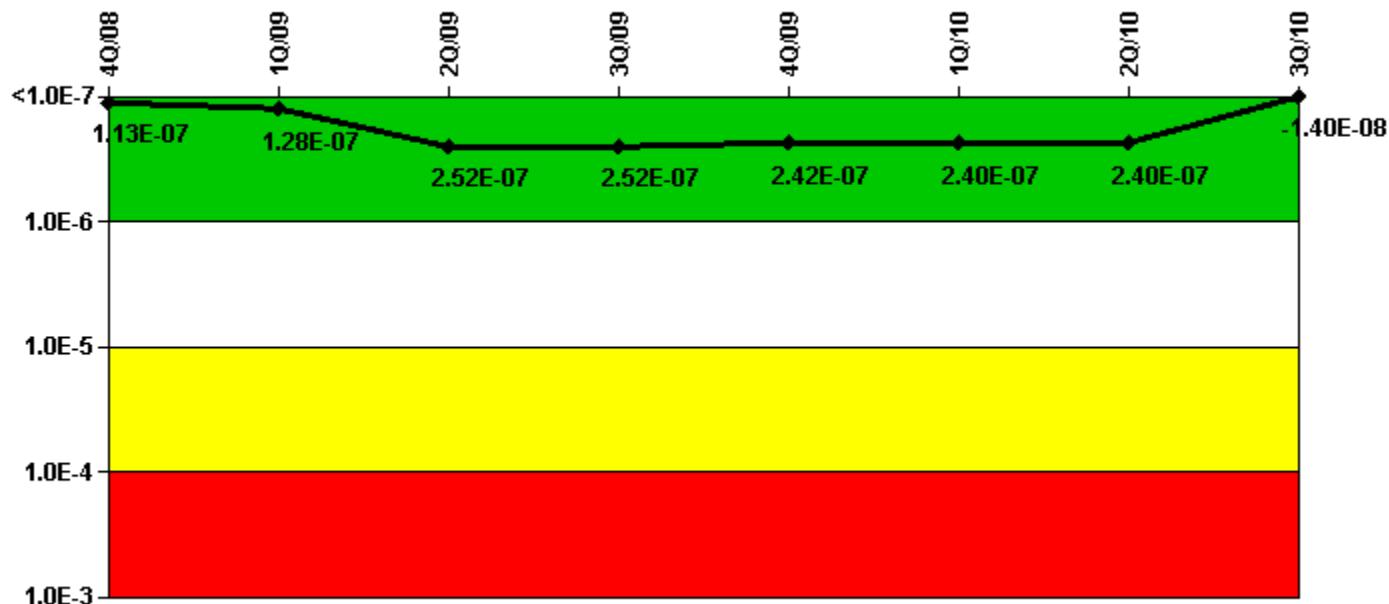
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	8.60E-08	4.70E-08	4.90E-09	3.50E-09	3.10E-09	1.31E-08	1.24E-08	-6.25E-09
URI (Δ CDF)	9.60E-07	8.40E-07	1.60E-07	1.60E-07	1.60E-07	2.47E-08	2.99E-08	3.35E-08
PLE	NO							
Indicator value	1.05E-06	8.87E-07	1.65E-07	1.64E-07	1.63E-07	3.80E-08	4.20E-08	2.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



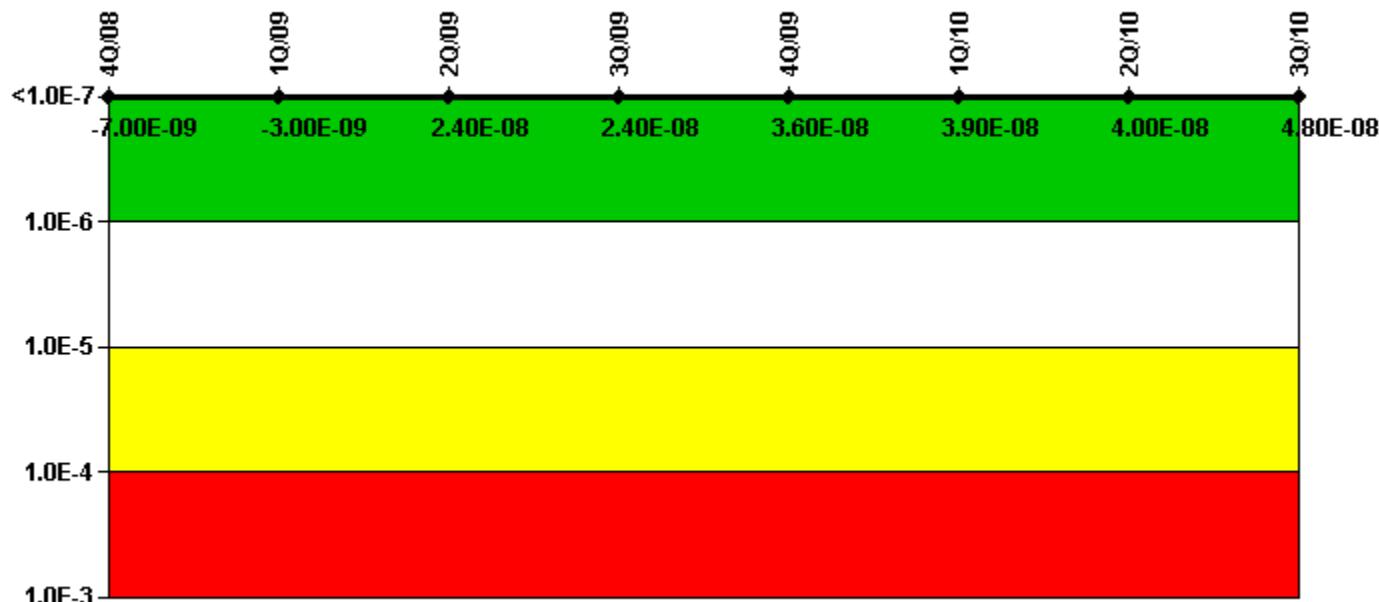
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	1.10E-07	1.20E-07	2.40E-07	2.40E-07	2.30E-07	2.25E-07	2.23E-07	-1.86E-08
URI (Δ CDF)	2.70E-09	8.30E-09	1.20E-08	1.20E-08	1.20E-08	1.34E-08	1.39E-08	4.19E-09
PLE	NO							
Indicator value	1.13E-07	1.28E-07	2.52E-07	2.52E-07	2.42E-07	2.40E-07	2.40E-07	-1.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



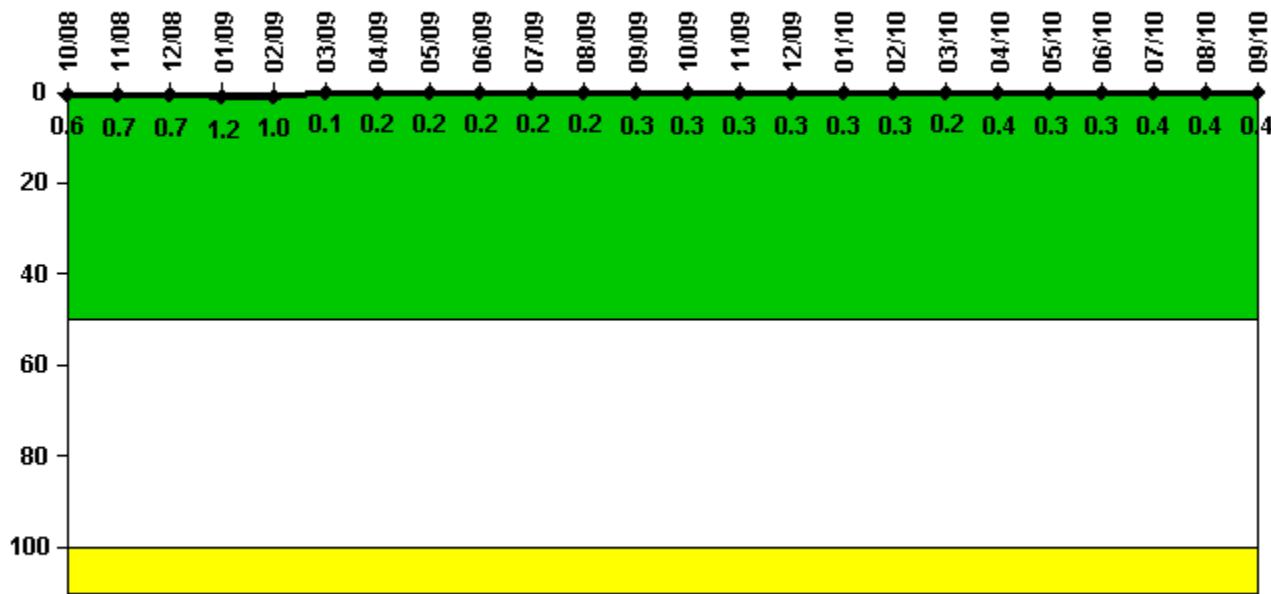
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	2.60E-08	3.10E-08	4.20E-08	4.20E-08	5.40E-08	5.72E-08	5.85E-08	6.57E-08
URI (Δ CDF)	-3.30E-08	-3.40E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.79E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.00E-09	-3.00E-09	2.40E-08	2.40E-08	3.60E-08	3.90E-08	4.00E-08	4.80E-08

Licensee Comments: none

Reactor Coolant System Activity



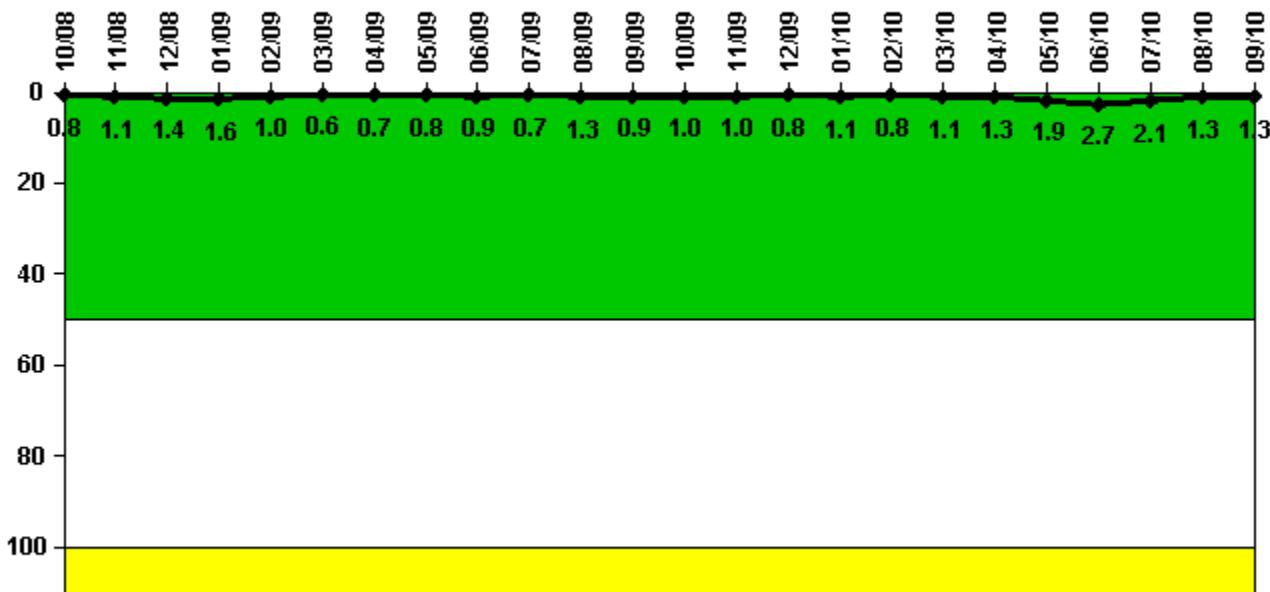
Thresholds: White > 50.0 Yellow > 100.0

Notes

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	0.005590	0.007390	0.006710	0.012200	0.010200	0.001360	0.002030	0.002060	0.002060	0.002430	0.002440	0.002560
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	0.6	0.7	0.7	1.2	1.0	0.1	0.2	0.2	0.2	0.2	0.2	0.3
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	0.002540	0.002950	0.003020	0.002880	0.003080	0.002190	0.003500	0.003240	0.003420	0.003610	0.003970	0.004170
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	0.3	0.3	0.3	0.3	0.3	0.2	0.4	0.3	0.3	0.4	0.4	0.4

Licensee Comments: none

Reactor Coolant System Leakage



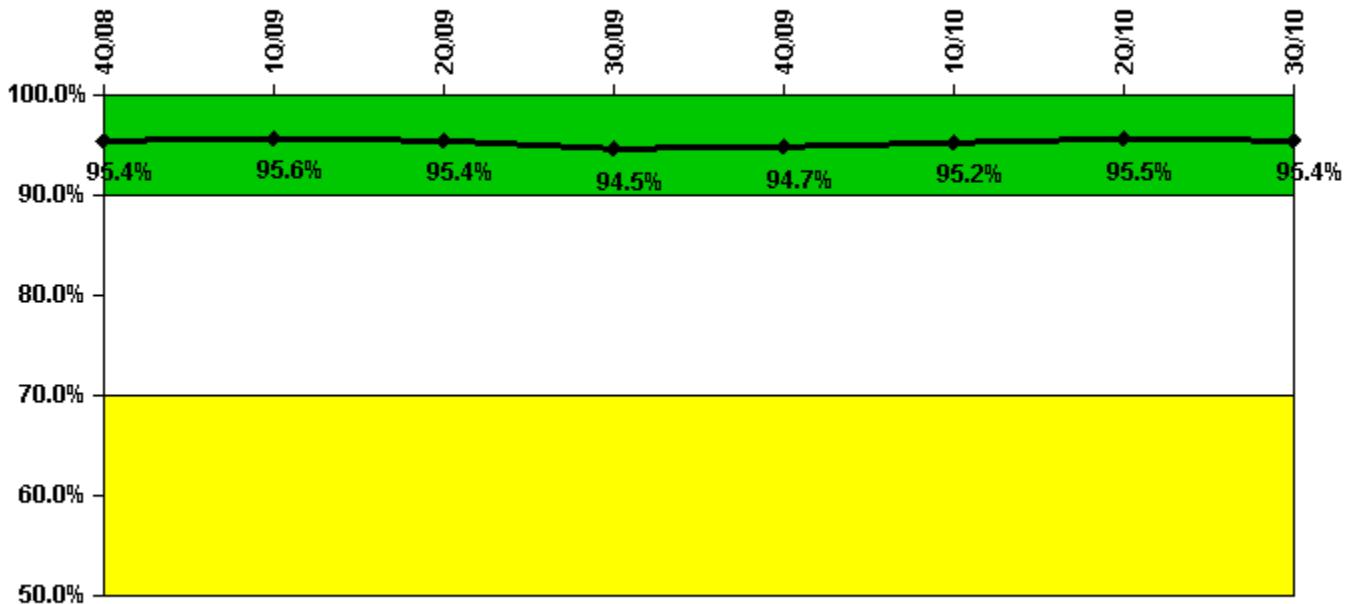
Thresholds: White > 50.0 Yellow > 100.0

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	0.080	0.110	0.140	0.160	0.100	0.060	0.070	0.080	0.090	0.070	0.130	0.090
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	0.8	1.1	1.4	1.6	1.0	0.6	0.7	0.8	0.9	0.7	1.3	0.9
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	0.100	0.100	0.080	0.110	0.080	0.110	0.134	0.190	0.270	0.210	0.130	0.130
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	1.0	1.0	0.8	1.1	0.8	1.1	1.3	1.9	2.7	2.1	1.3	1.3

Licensee Comments: none

Drill/Exercise Performance



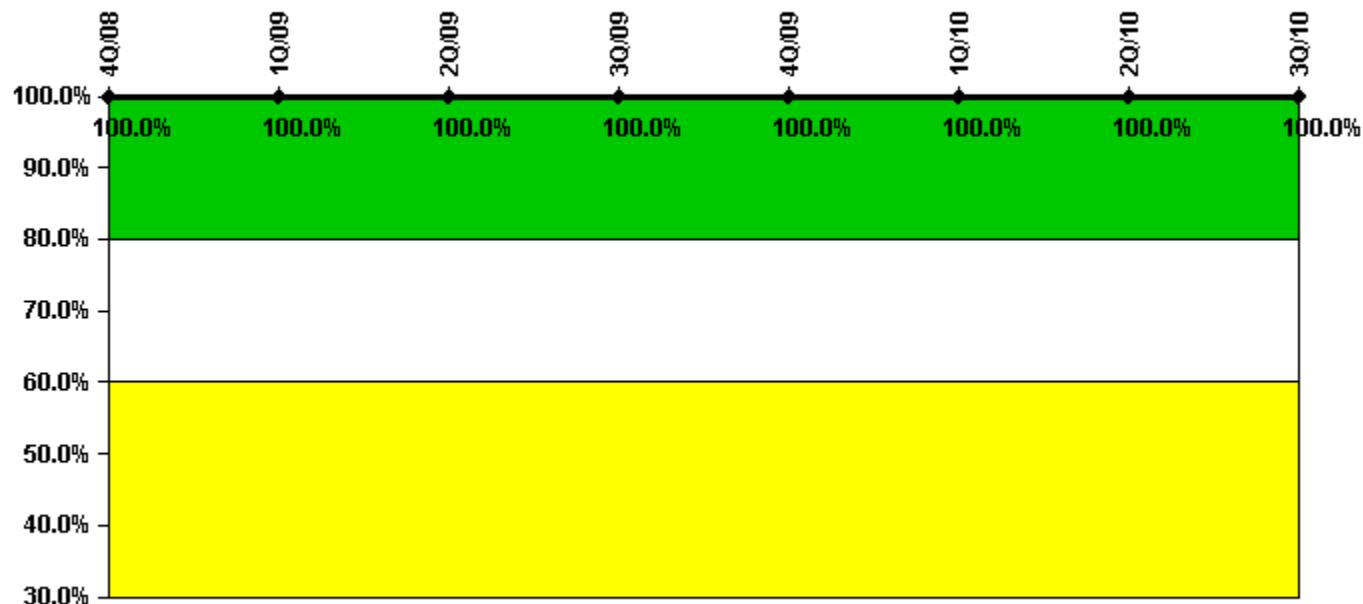
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful opportunities	52.0	10.0	30.0	43.0	63.0	13.0	23.0	76.0
Total opportunities	59.0	10.0	32.0	46.0	64.0	13.0	23.0	78.0
Indicator value	95.4%	95.6%	95.4%	94.5%	94.7%	95.2%	95.5%	95.4%

Licensee Comments: none

ERO Drill Participation



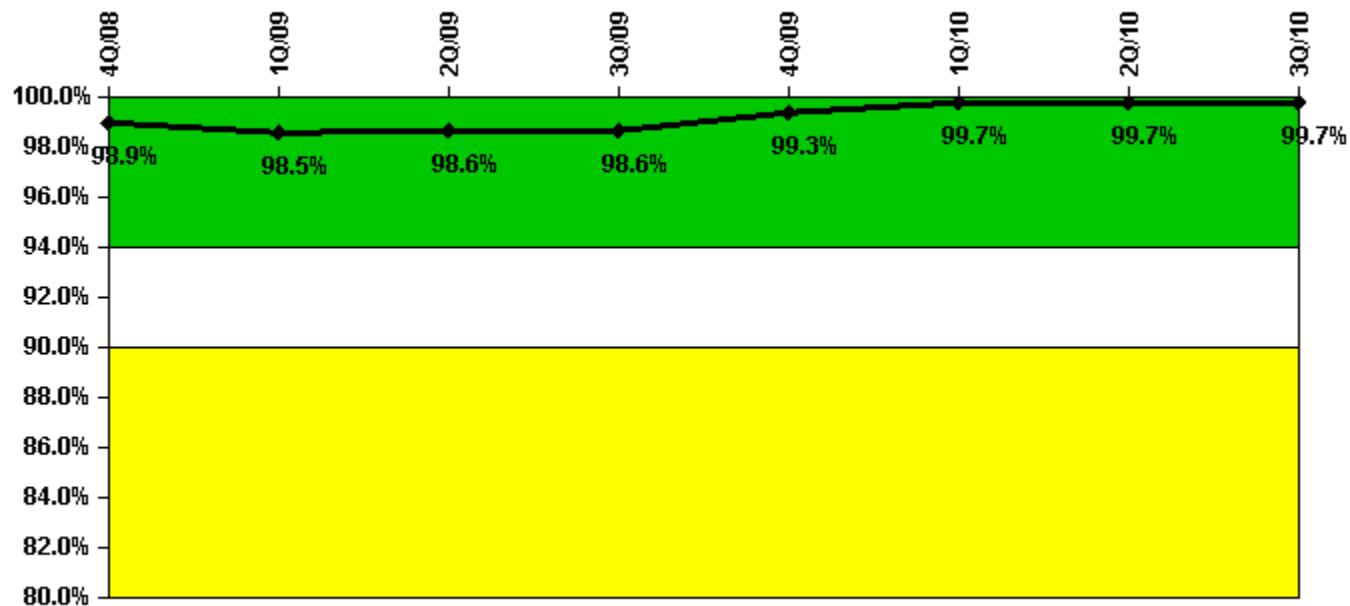
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Participating Key personnel	84.0	88.0	98.0	101.0	95.0	98.0	87.0	86.0
Total Key personnel	84.0	88.0	98.0	101.0	95.0	98.0	87.0	86.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



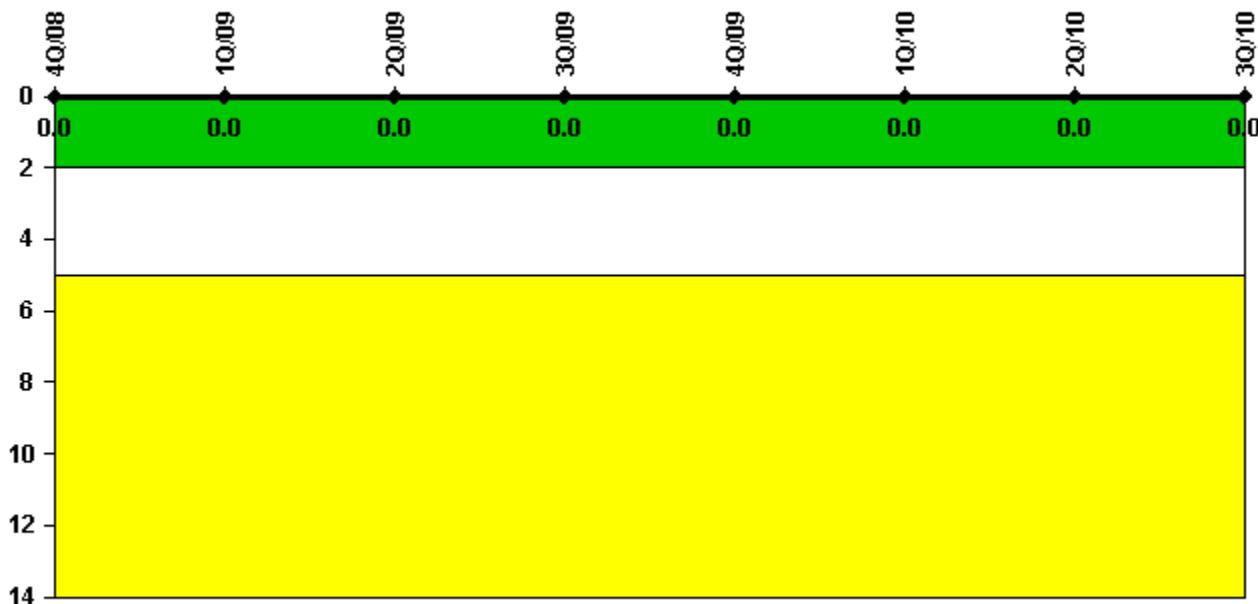
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful siren-tests	916	932	948	947	942	948	948	948
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	98.9%	98.5%	98.6%	98.6%	99.3%	99.7%	99.7%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



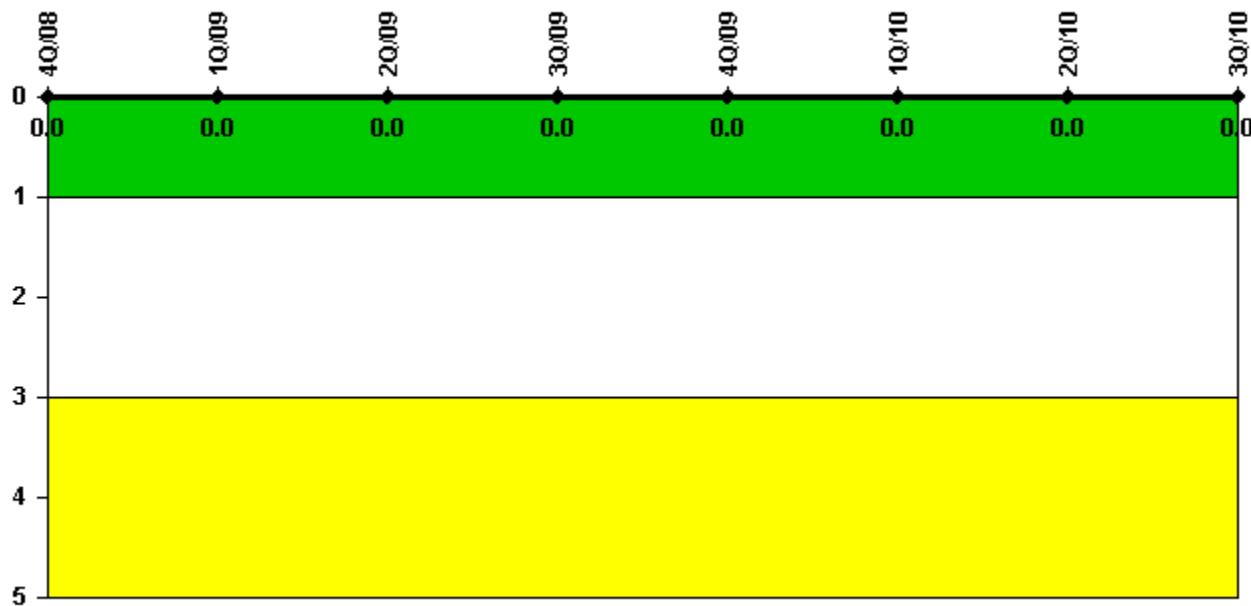
Thresholds: White > 2.0 Yellow > 5.0

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

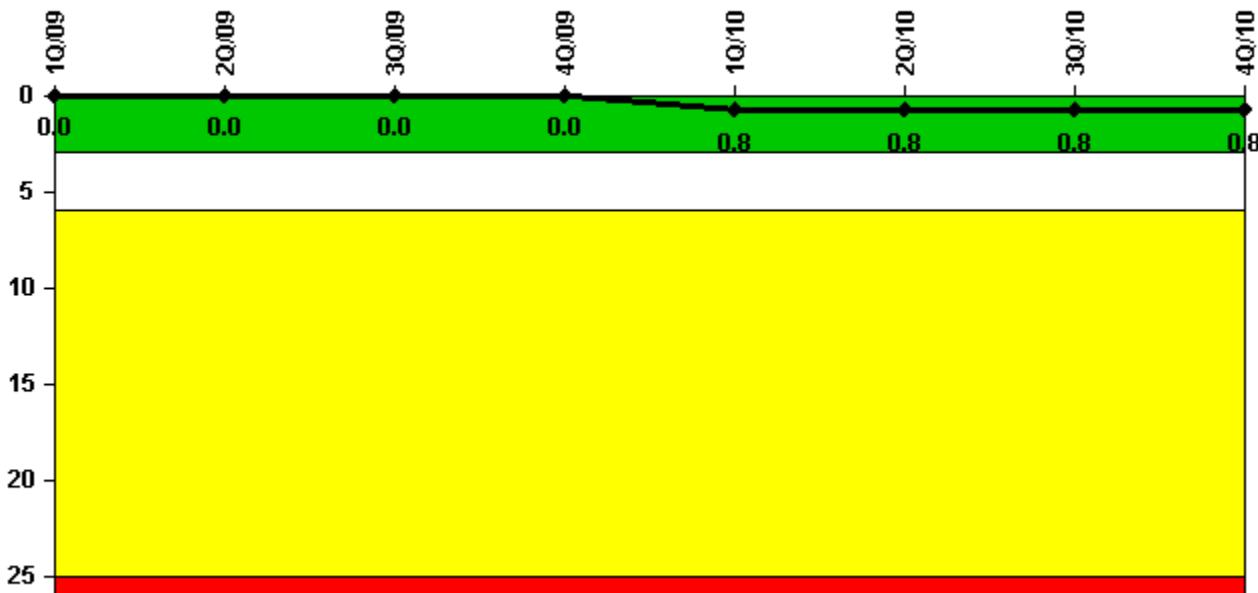
[Security](#) information not publicly available.

Calvert Cliffs 2

4Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



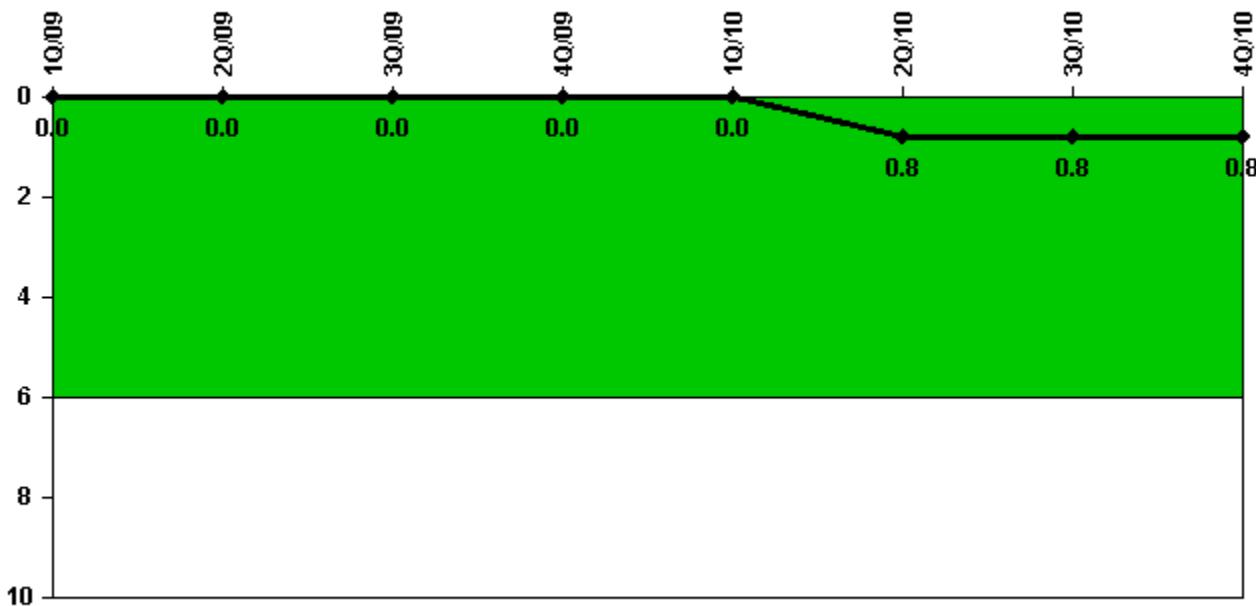
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	1.0	0	0	0
Critical hours	1657.0	2184.0	2208.0	2209.0	1941.7	2184.0	2208.0	2209.0
Indicator value	0	0	0	0	0.8	0.8	0.8	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



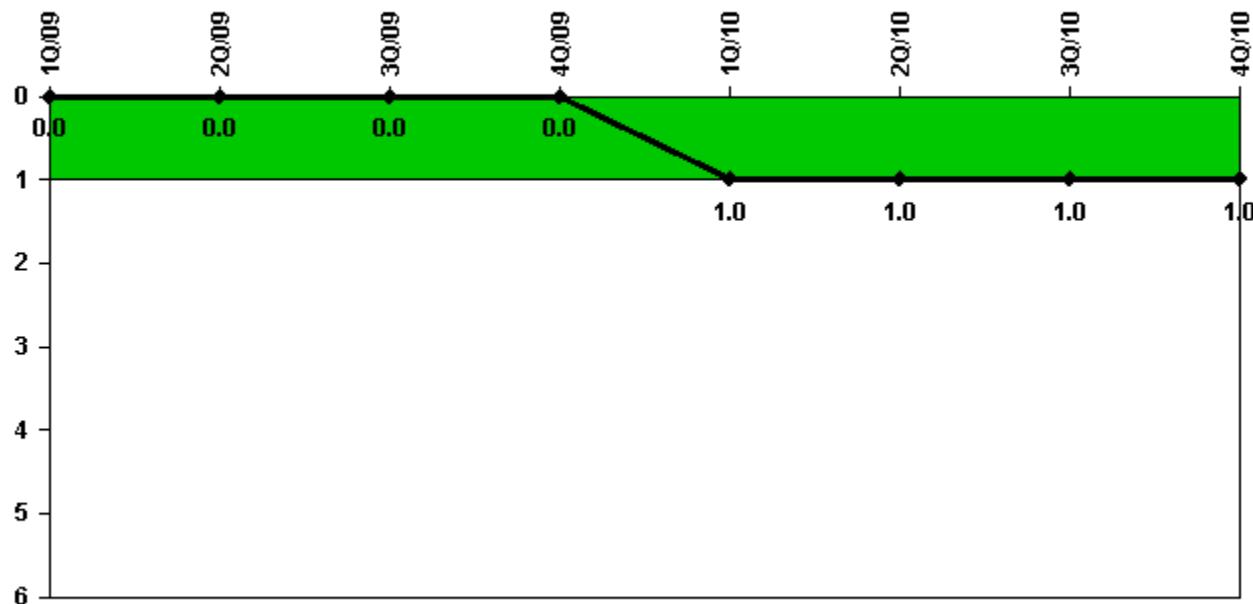
Thresholds: White > 6.0

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	1.0	0	0
Critical hours	1657.0	2184.0	2208.0	2209.0	1941.7	2184.0	2208.0	2209.0
Indicator value	0	0	0	0	0	0.8	0.8	0.8

Licensee Comments: none

Unplanned Scrams with Complications



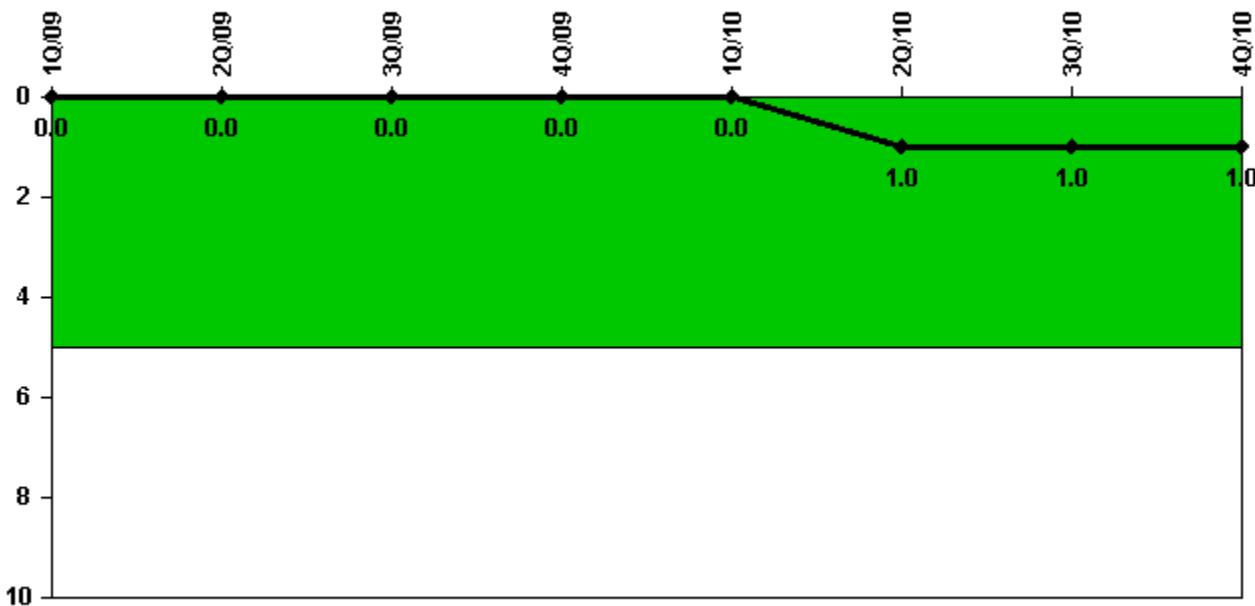
Thresholds: White > 1.0

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	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)



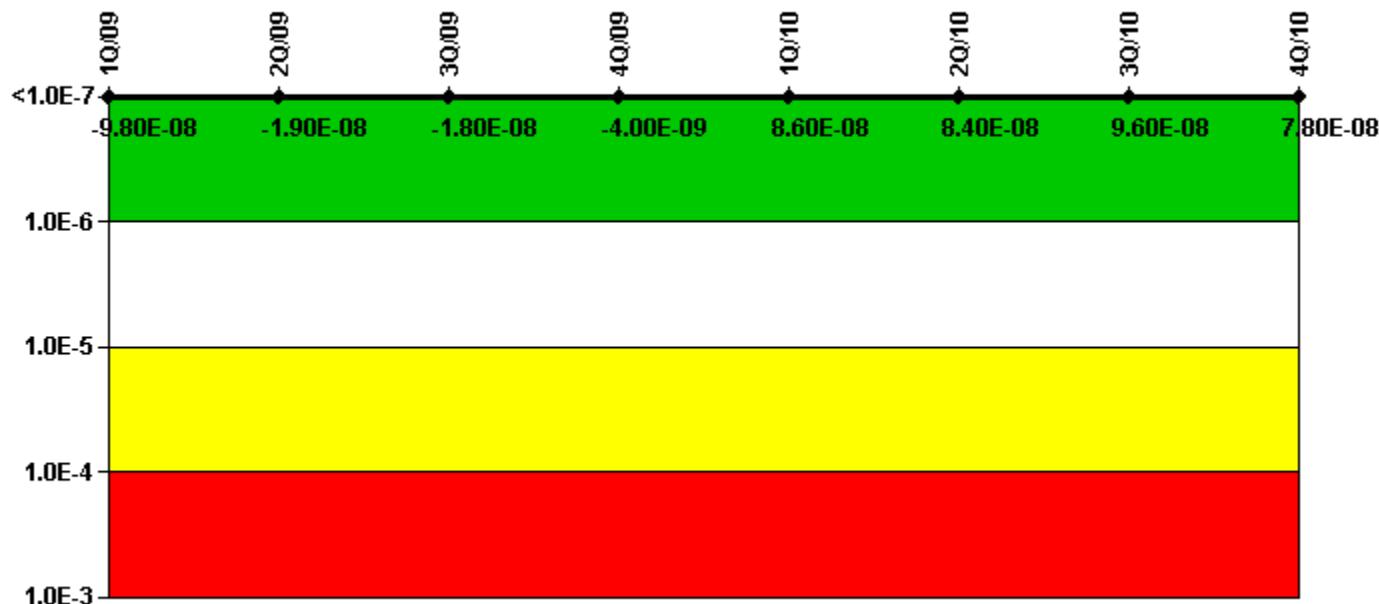
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	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	1	0	0
Indicator value	0	0	0	0	0	1	1	1

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



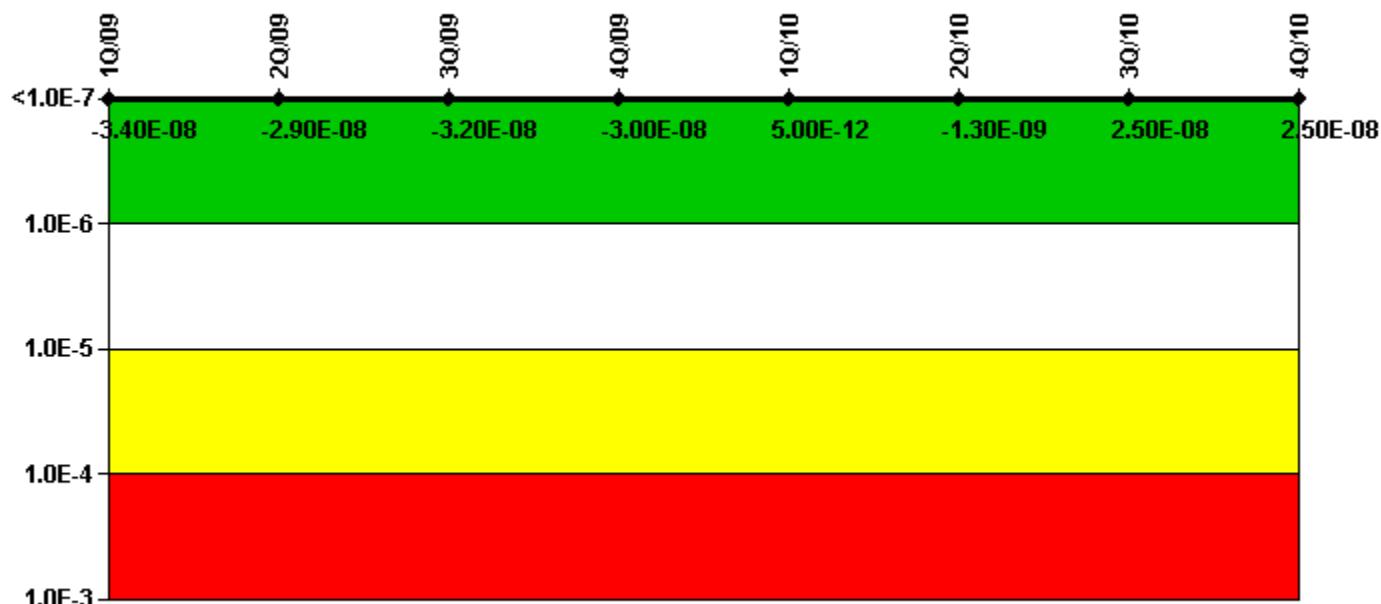
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	2.20E-08	5.50E-08	5.60E-08	7.00E-08	1.00E-07	9.77E-08	1.11E-07	9.08E-08
URI (Δ CDF)	-1.20E-07	-7.40E-08	-7.40E-08	-7.40E-08	-1.46E-08	-1.40E-08	-1.45E-08	-1.29E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.80E-08	-1.90E-08	-1.80E-08	-4.00E-09	8.60E-08	8.40E-08	9.60E-08	7.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



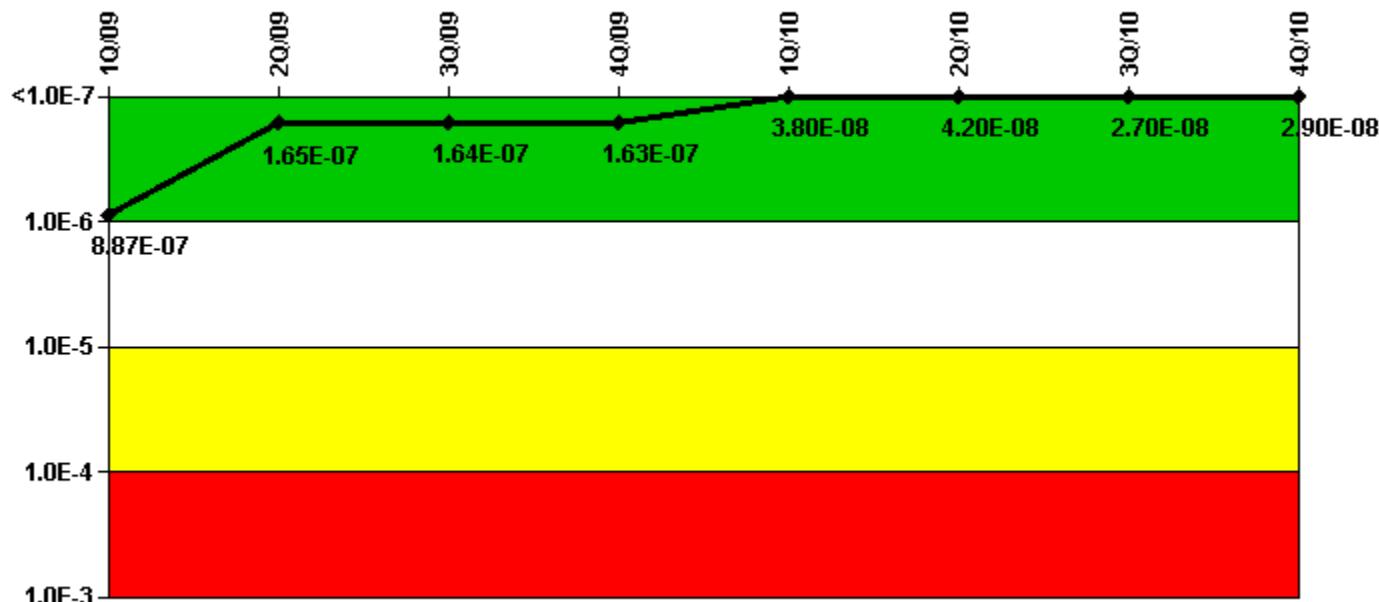
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	6.00E-08	4.60E-08	4.20E-08	4.10E-08	6.40E-08	6.19E-08	8.72E-08	8.65E-08
URI (Δ CDF)	-9.40E-08	-7.50E-08	-7.40E-08	-7.10E-08	-6.40E-08	-6.31E-08	-6.18E-08	-6.16E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.40E-08	-2.90E-08	-3.20E-08	-3.00E-08	5.00E-12	-1.30E-09	2.50E-08	2.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



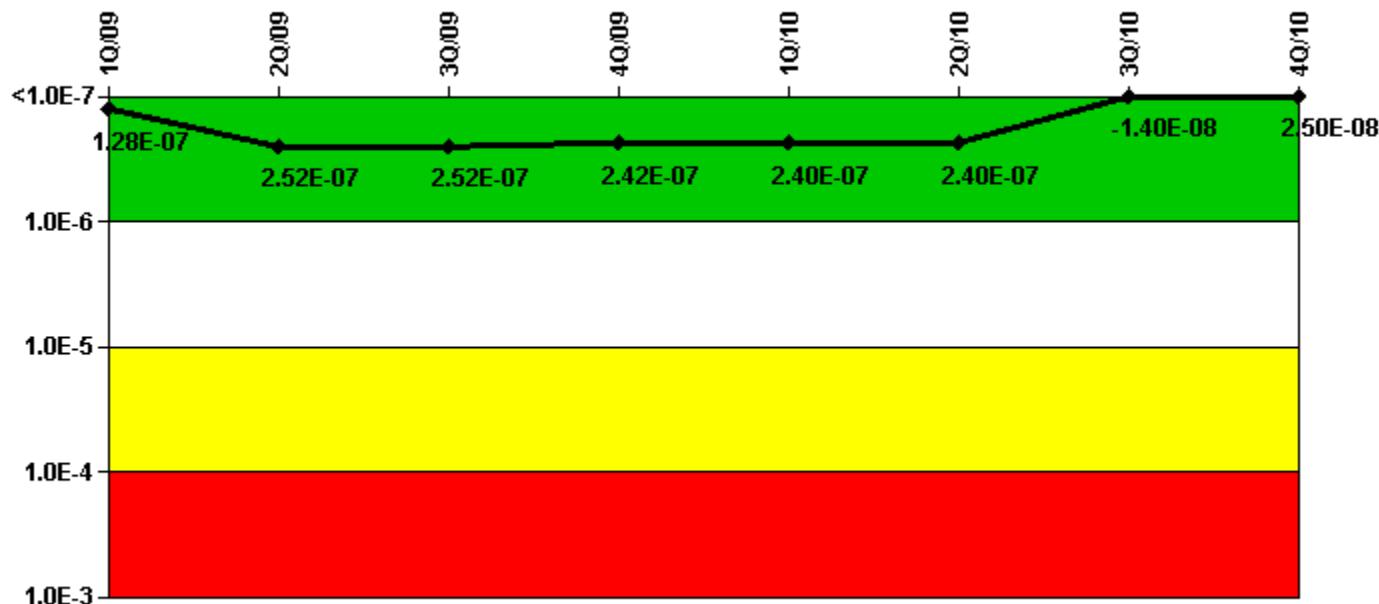
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	4.70E-08	4.90E-09	3.50E-09	3.10E-09	1.31E-08	1.24E-08	-6.25E-09	-6.61E-09
URI (Δ CDF)	8.40E-07	1.60E-07	1.60E-07	1.60E-07	2.47E-08	2.99E-08	3.35E-08	3.56E-08
PLE	NO							
Indicator value	8.87E-07	1.65E-07	1.64E-07	1.63E-07	3.80E-08	4.20E-08	2.70E-08	2.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



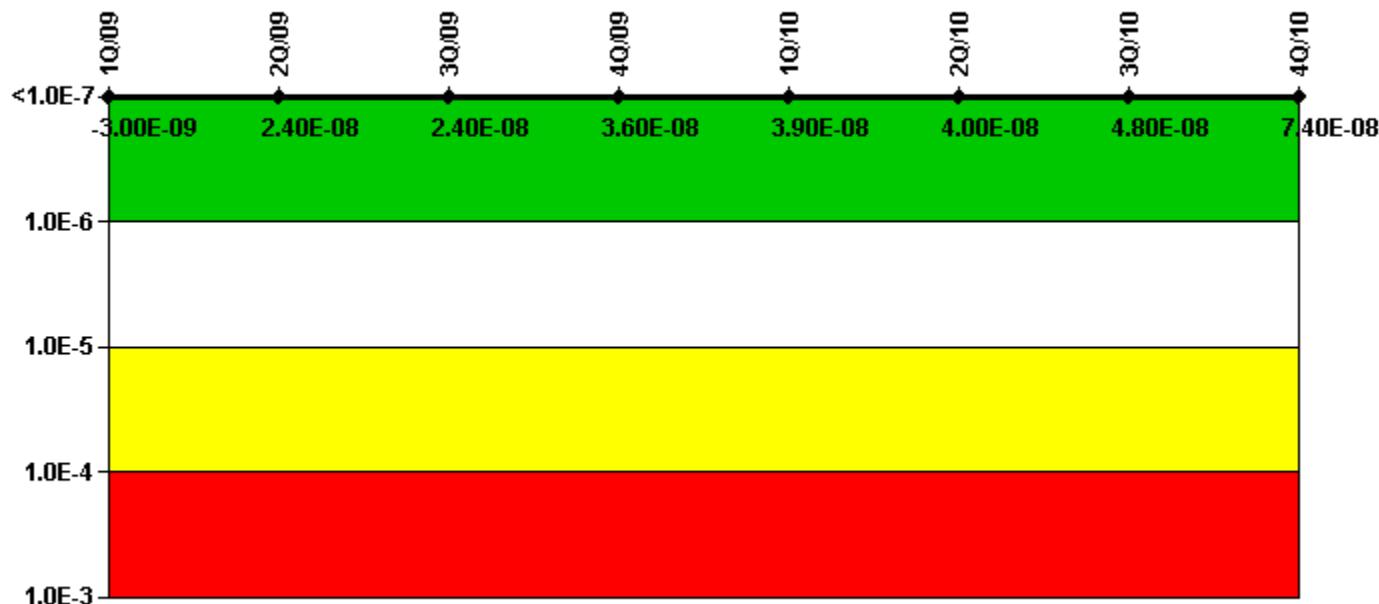
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.20E-07	2.40E-07	2.40E-07	2.30E-07	2.25E-07	2.23E-07	-1.86E-08	2.06E-08
URI (Δ CDF)	8.30E-09	1.20E-08	1.20E-08	1.20E-08	1.34E-08	1.39E-08	4.19E-09	4.10E-09
PLE	NO	NO						
Indicator value	1.28E-07	2.52E-07	2.52E-07	2.42E-07	2.40E-07	2.40E-07	-1.40E-08	2.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



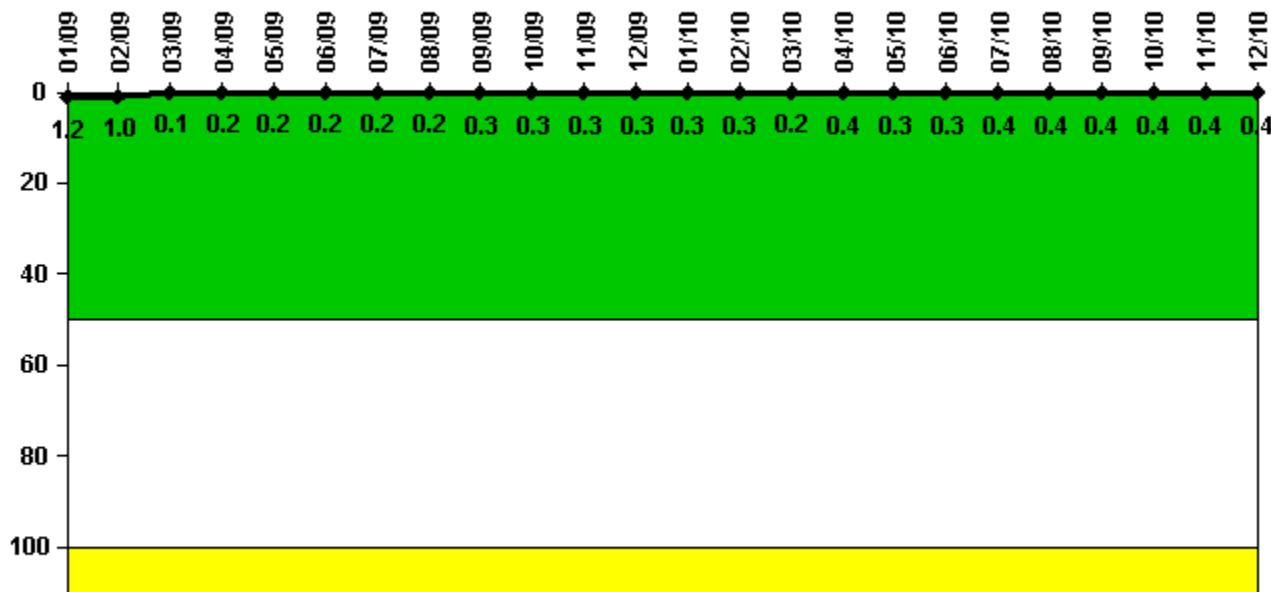
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	3.10E-08	4.20E-08	4.20E-08	5.40E-08	5.72E-08	5.85E-08	6.57E-08	9.21E-08
URI (Δ CDF)	-3.40E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.79E-08	-1.77E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.00E-09	2.40E-08	2.40E-08	3.60E-08	3.90E-08	4.00E-08	4.80E-08	7.40E-08

Licensee Comments: none

Reactor Coolant System Activity



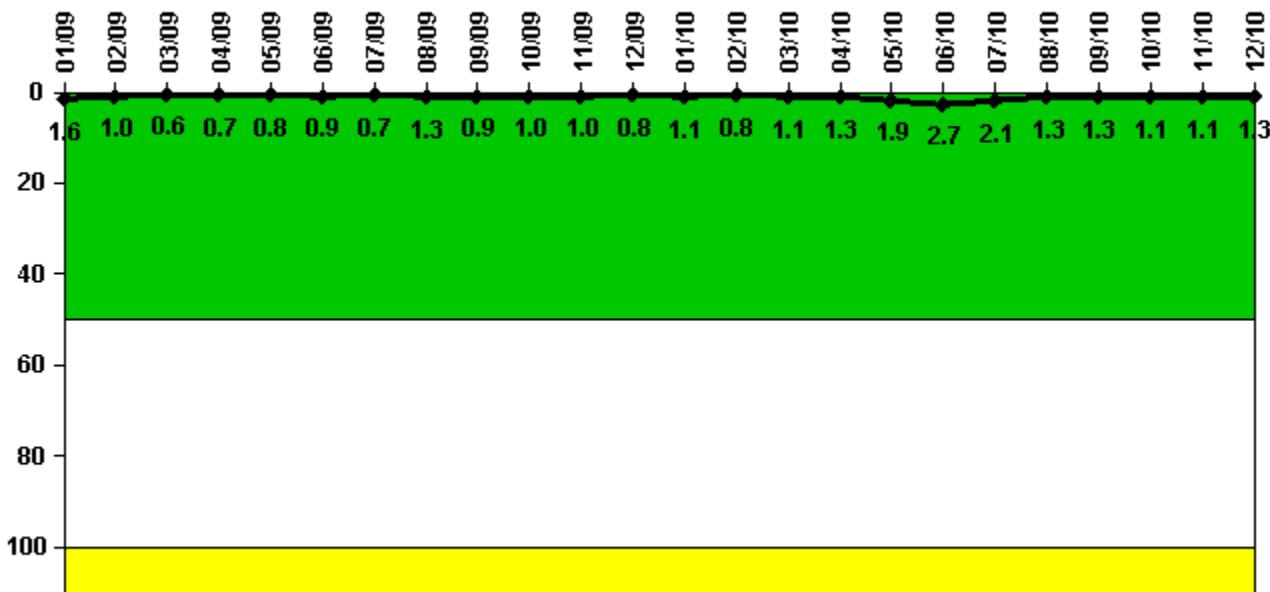
Thresholds: White > 50.0 Yellow > 100.0

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	0.012200	0.010200	0.001360	0.002030	0.002060	0.002060	0.002430	0.002440	0.002560	0.002540	0.002950	0.003020
Indicator value	1.2	1.0	0.1	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
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	0.002880	0.003080	0.002190	0.003500	0.003240	0.003420	0.003610	0.003970	0.004170	0.003950	0.003620	0.003710
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	0.3	0.3	0.2	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4

Licensee Comments: none

Reactor Coolant System Leakage



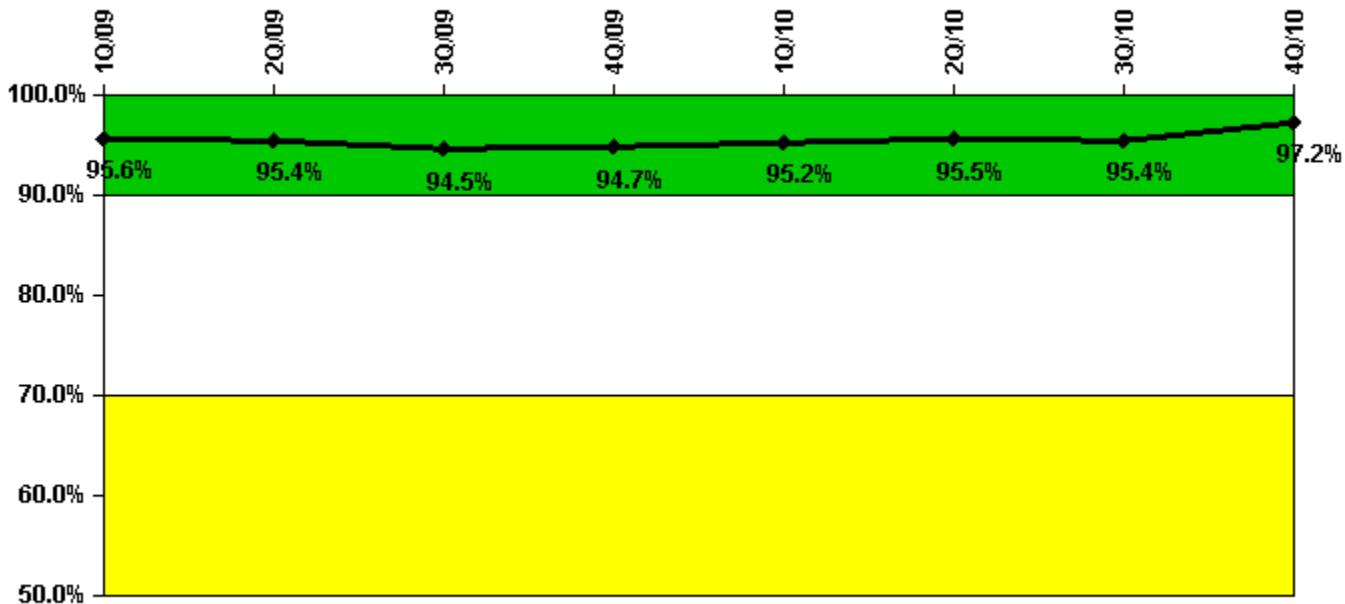
Thresholds: White > 50.0 Yellow > 100.0

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	0.160	0.100	0.060	0.070	0.080	0.090	0.070	0.130	0.090	0.100	0.100	0.080
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	1.6	1.0	0.6	0.7	0.8	0.9	0.7	1.3	0.9	1.0	1.0	0.8
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	0.110	0.080	0.110	0.134	0.190	0.270	0.210	0.130	0.130	0.110	0.110	0.130
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	1.1	0.8	1.1	1.3	1.9	2.7	2.1	1.3	1.3	1.1	1.1	1.3

Licensee Comments: none

Drill/Exercise Performance



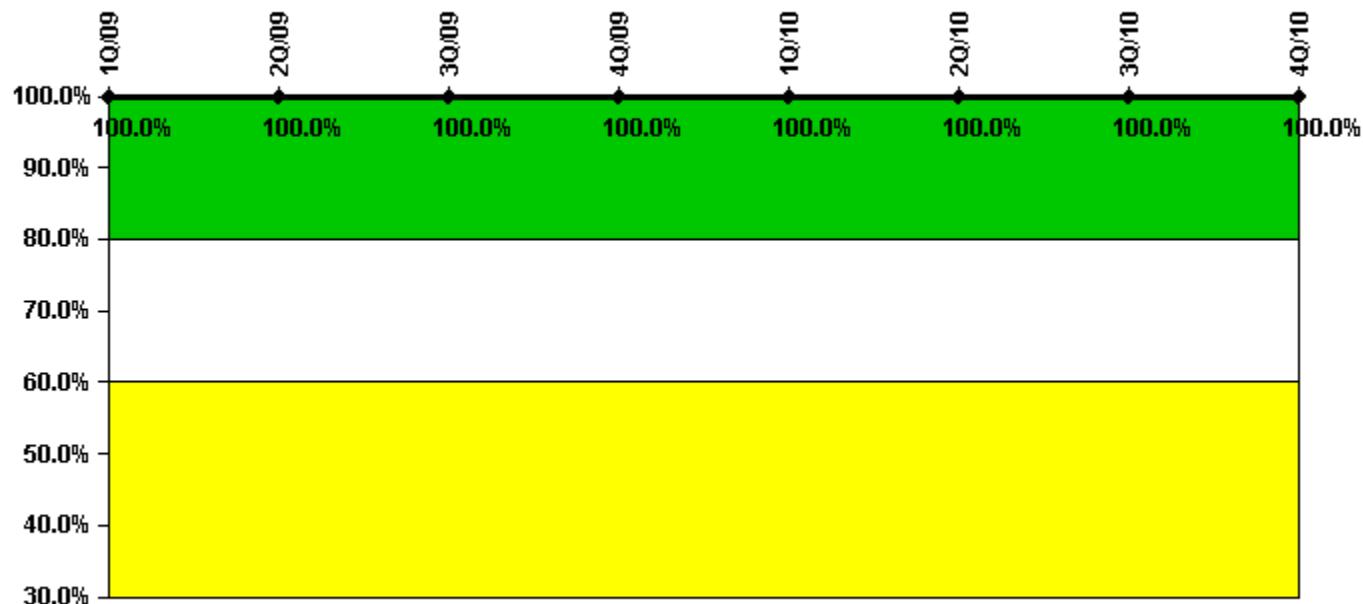
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful opportunities	10.0	30.0	43.0	63.0	13.0	23.0	76.0	53.0
Total opportunities	10.0	32.0	46.0	64.0	13.0	23.0	78.0	54.0
Indicator value	95.6%	95.4%	94.5%	94.7%	95.2%	95.5%	95.4%	97.2%

Licensee Comments: none

ERO Drill Participation



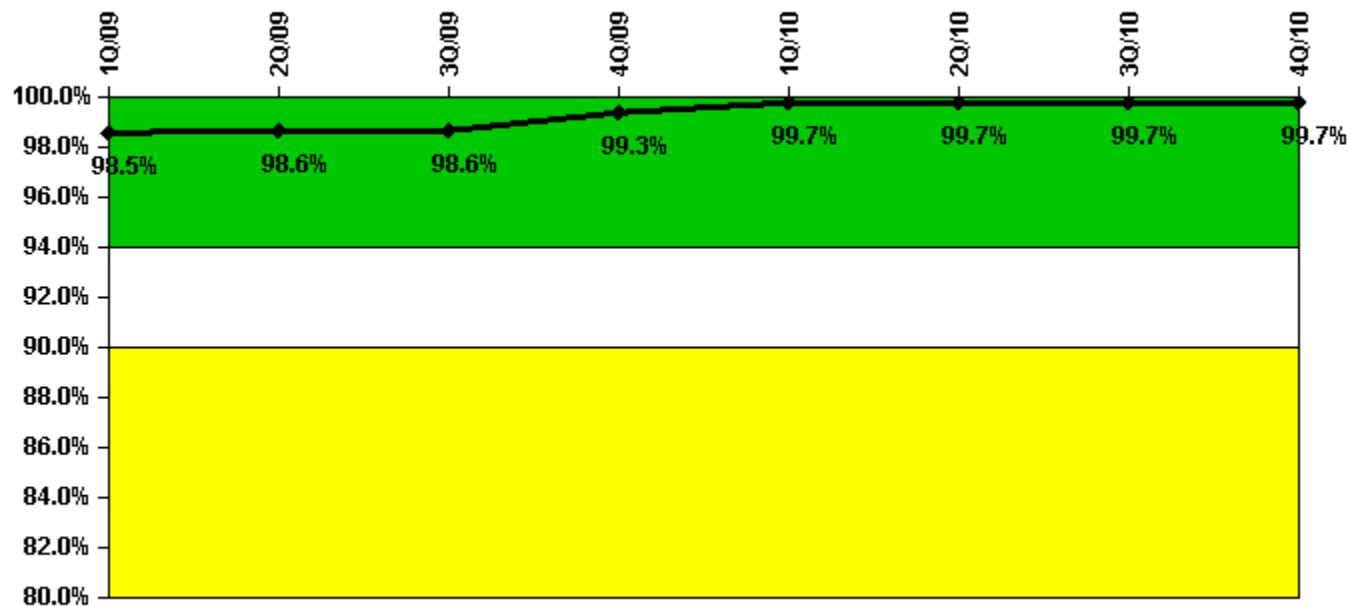
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Participating Key personnel	88.0	98.0	101.0	95.0	98.0	87.0	86.0	88.0
Total Key personnel	88.0	98.0	101.0	95.0	98.0	87.0	86.0	88.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



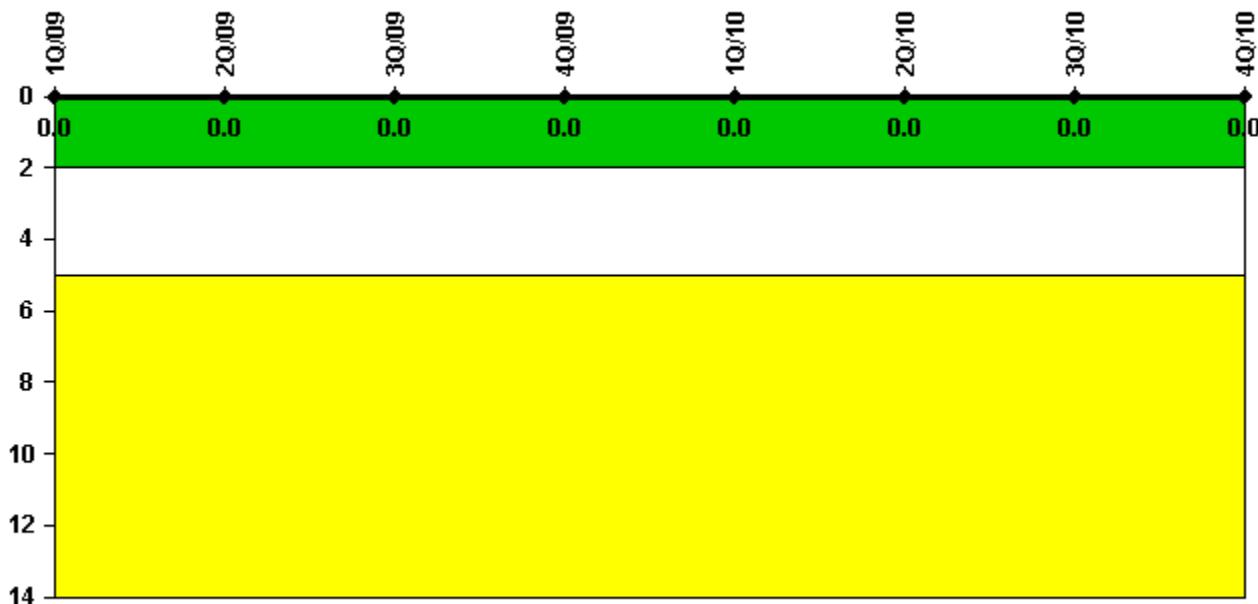
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful siren-tests	932	948	947	942	948	948	948	940
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	98.5%	98.6%	98.6%	99.3%	99.7%	99.7%	99.7%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



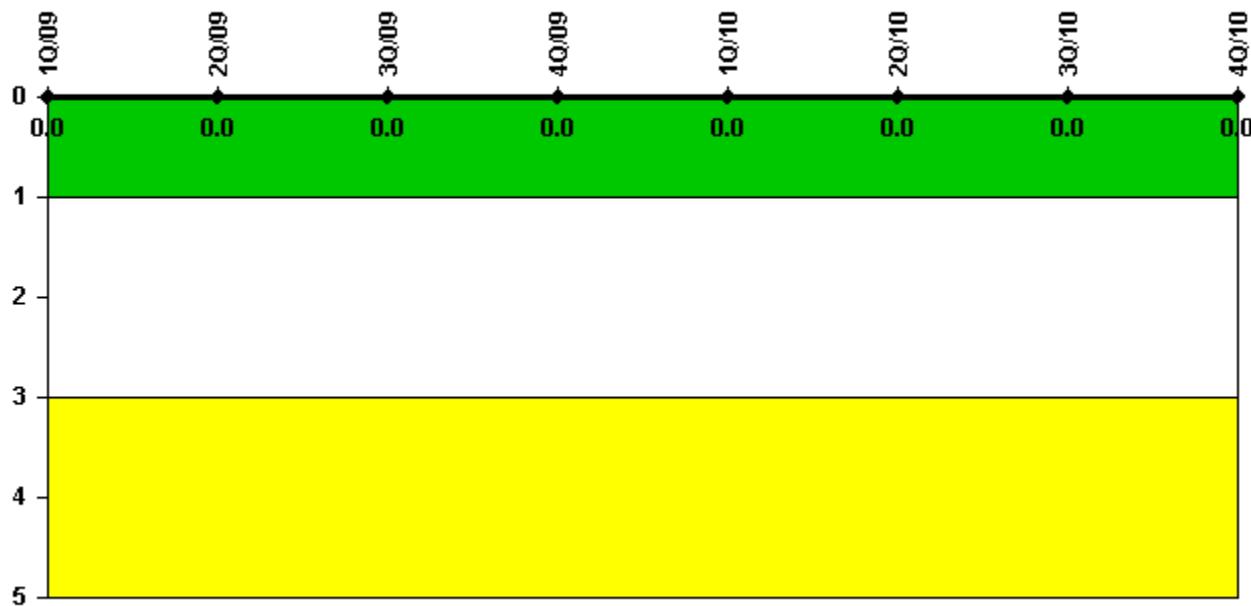
Thresholds: White > 2.0 Yellow > 5.0

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.



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

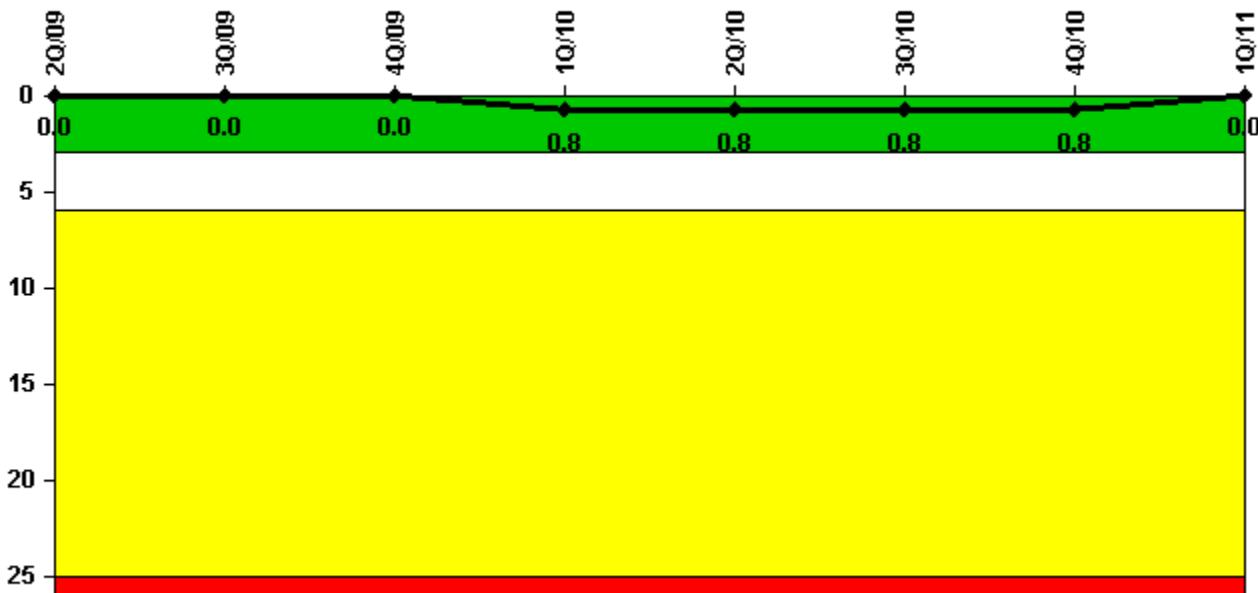
Last Modified: January 24, 2011

Calvert Cliffs 2

1Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



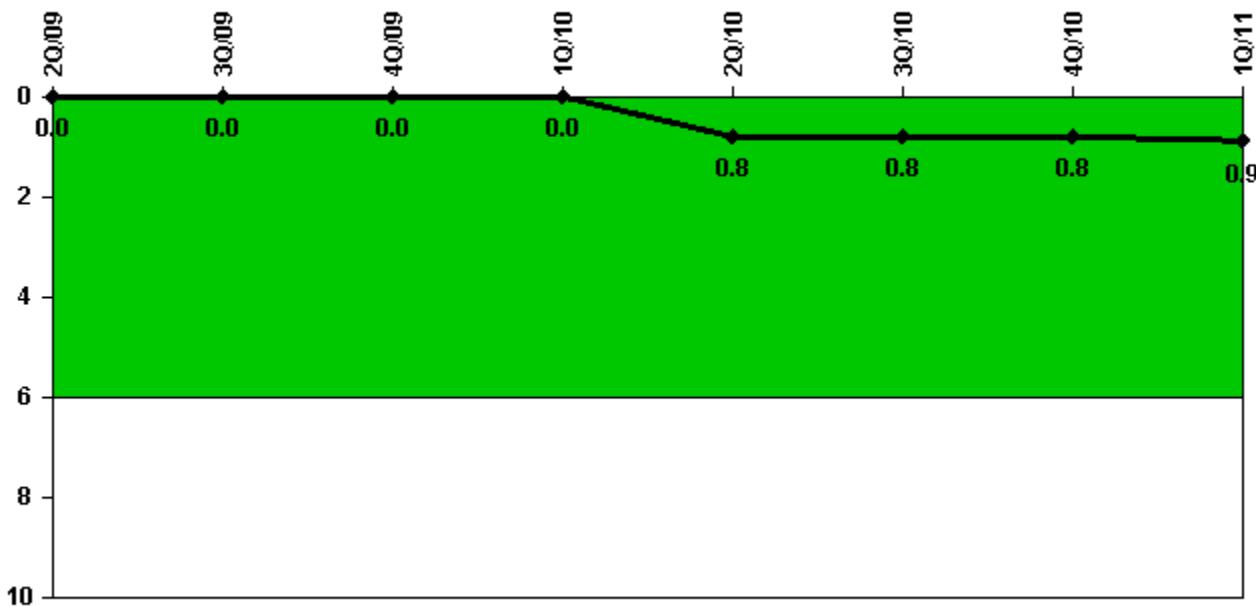
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	1.0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	1941.7	2184.0	2208.0	2209.0	1475.6
Indicator value	0	0	0	0.8	0.8	0.8	0.8	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



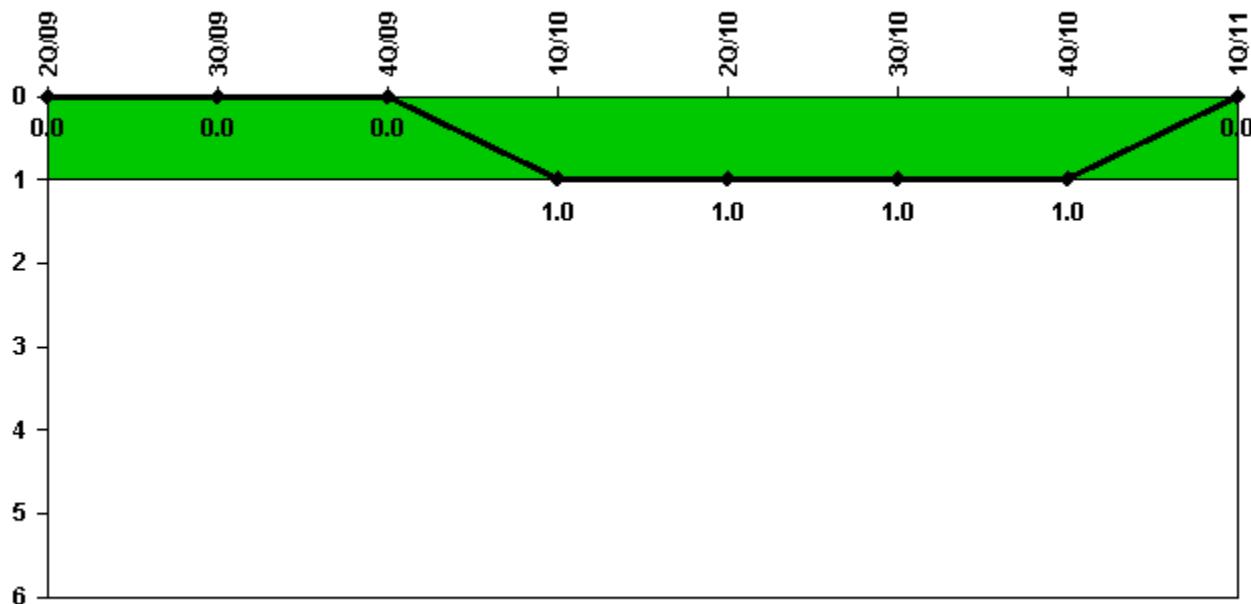
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2184.0	2208.0	2209.0	1941.7	2184.0	2208.0	2209.0	1475.6
Indicator value	0	0	0	0	0.8	0.8	0.8	0.9

Licensee Comments: none

Unplanned Scrams with Complications



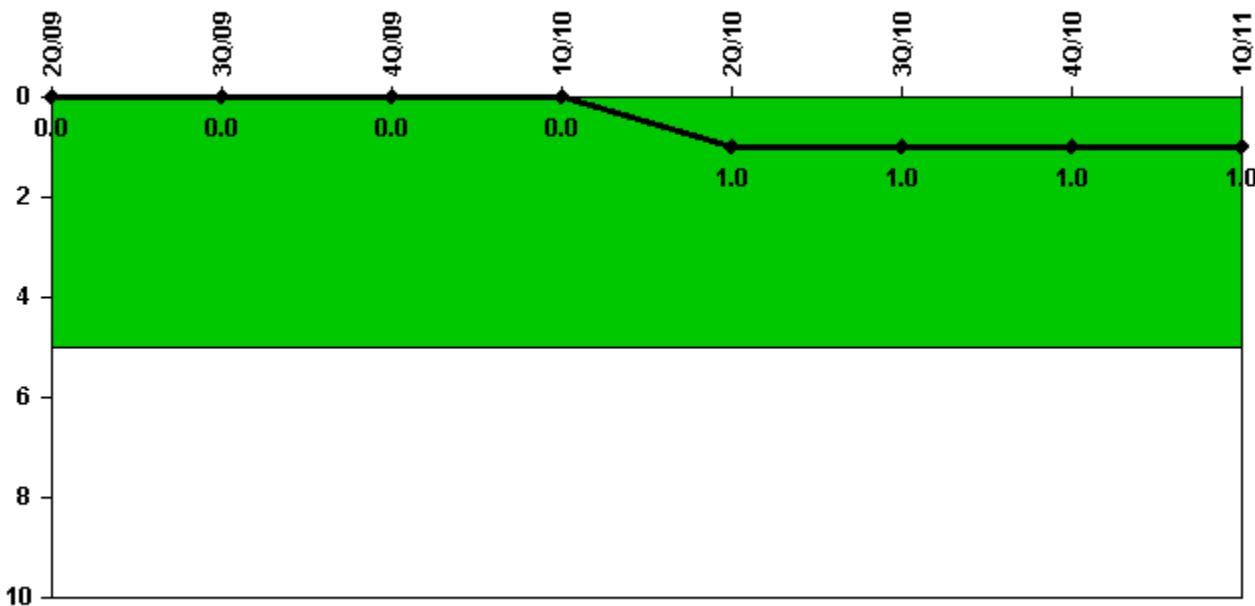
Thresholds: White > 1.0

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	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)



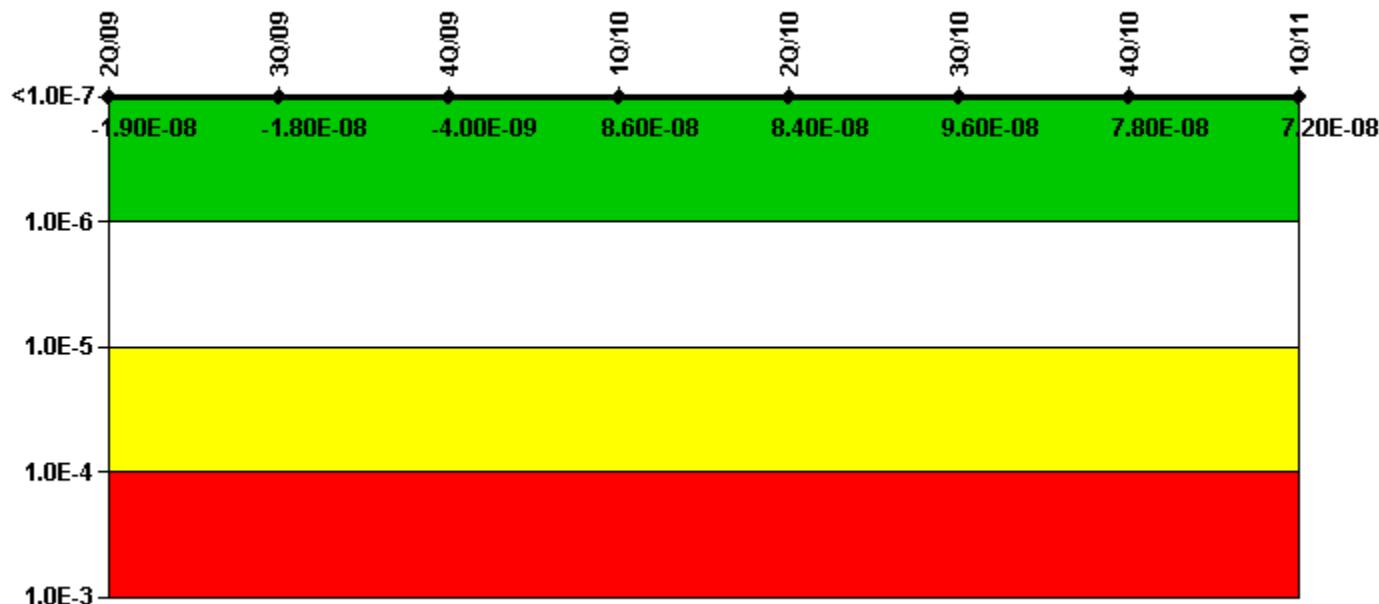
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
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

Mitigating Systems Performance Index, Emergency AC Power System



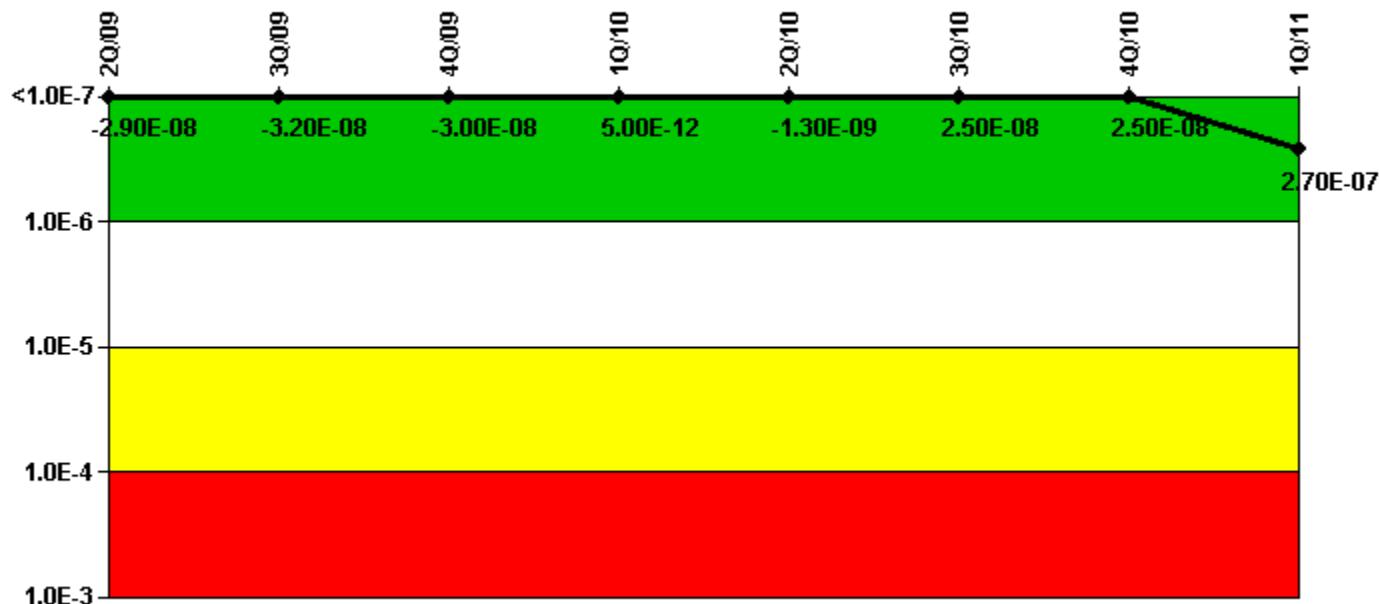
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	5.50E-08	5.60E-08	7.00E-08	1.00E-07	9.77E-08	1.11E-07	9.08E-08	8.65E-08
URI (Δ CDF)	-7.40E-08	-7.40E-08	-7.40E-08	-1.46E-08	-1.40E-08	-1.45E-08	-1.29E-08	-1.42E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-08	-1.80E-08	-4.00E-09	8.60E-08	8.40E-08	9.60E-08	7.80E-08	7.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



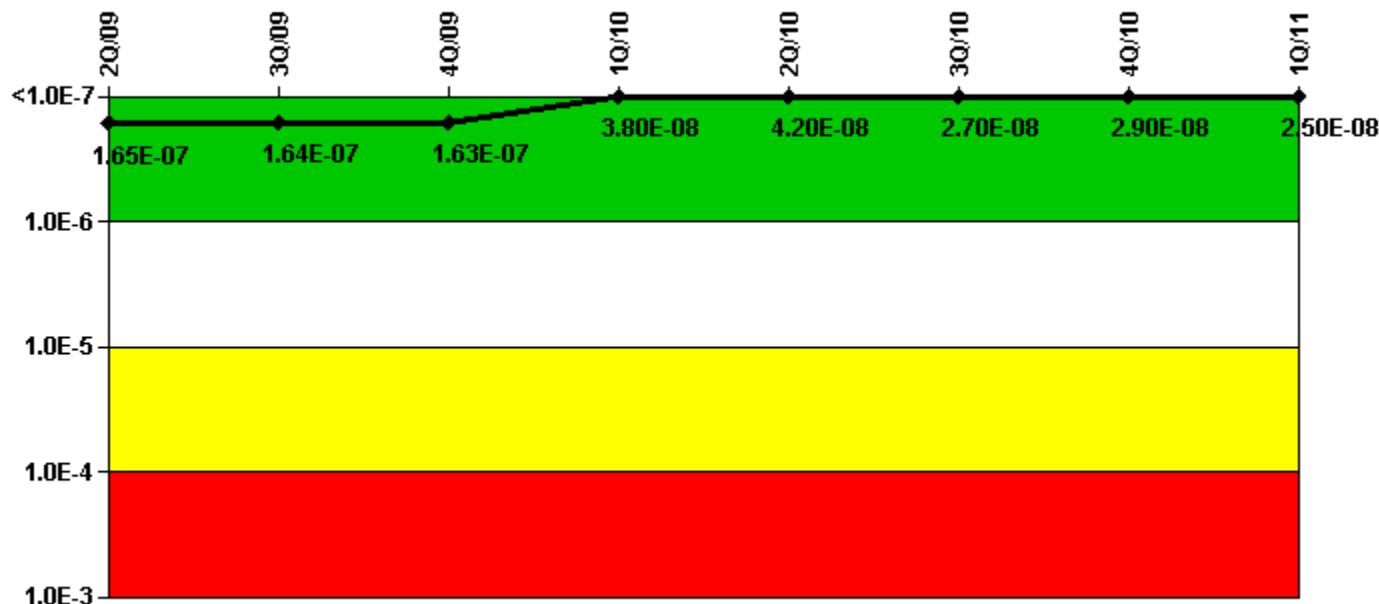
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	4.60E-08	4.20E-08	4.10E-08	6.40E-08	6.19E-08	8.72E-08	8.65E-08	1.33E-07
URI (Δ CDF)	-7.50E-08	-7.40E-08	-7.10E-08	-6.40E-08	-6.31E-08	-6.18E-08	-6.16E-08	1.33E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-08	-3.20E-08	-3.00E-08	5.00E-12	-1.30E-09	2.50E-08	2.50E-08	2.70E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



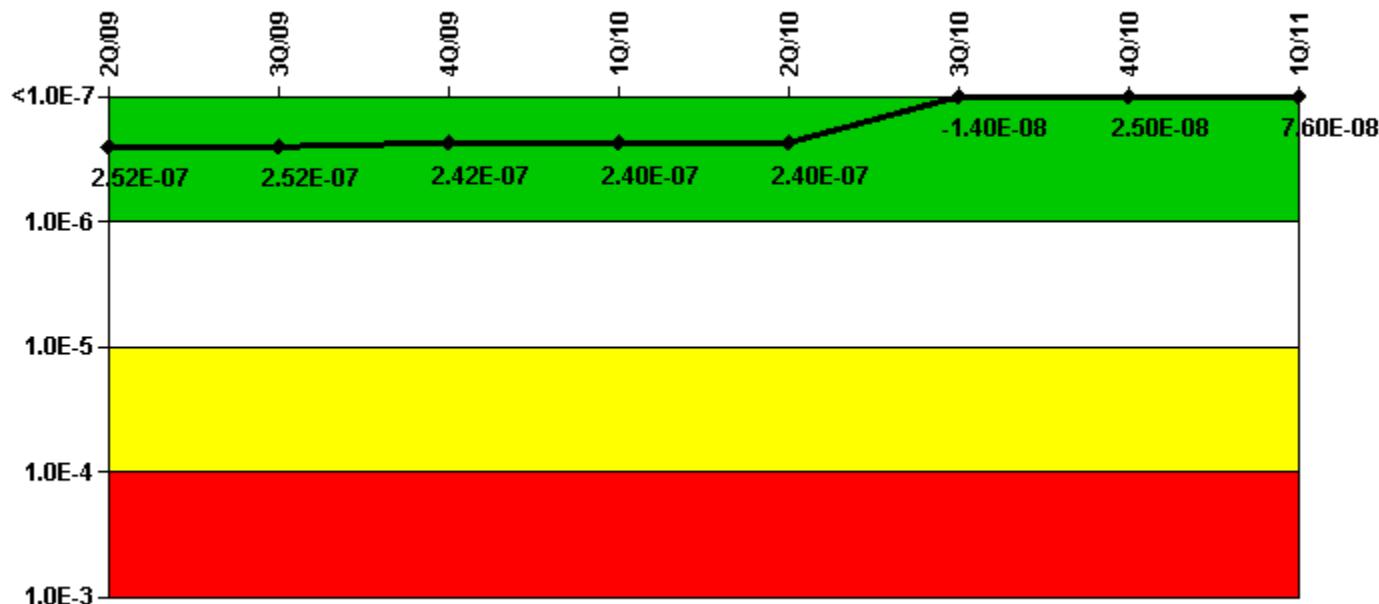
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	4.90E-09	3.50E-09	3.10E-09	1.31E-08	1.24E-08	-6.25E-09	-6.61E-09	-4.83E-09
URI (Δ CDF)	1.60E-07	1.60E-07	1.60E-07	2.47E-08	2.99E-08	3.35E-08	3.56E-08	2.94E-08
PLE	NO							
Indicator value	1.65E-07	1.64E-07	1.63E-07	3.80E-08	4.20E-08	2.70E-08	2.90E-08	2.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



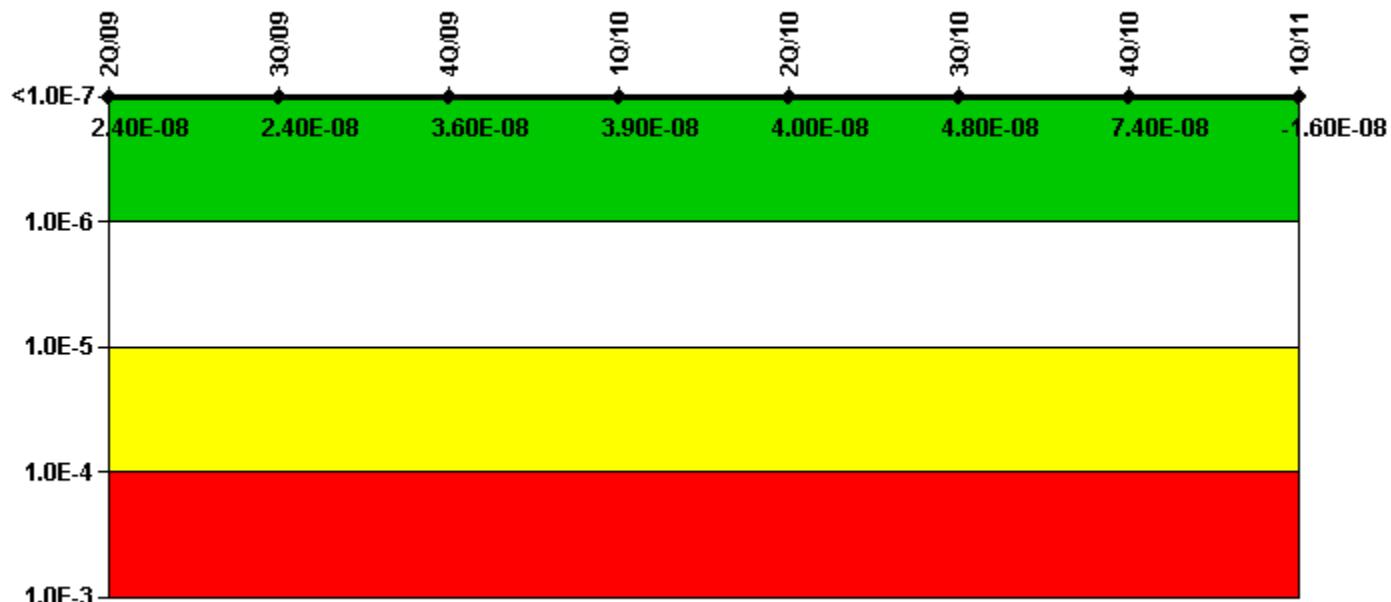
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	2.40E-07	2.40E-07	2.30E-07	2.25E-07	2.23E-07	-1.86E-08	2.06E-08	7.31E-08
URI (Δ CDF)	1.20E-08	1.20E-08	1.20E-08	1.34E-08	1.39E-08	4.19E-09	4.10E-09	2.91E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.52E-07	2.52E-07	2.42E-07	2.40E-07	2.40E-07	-1.40E-08	2.50E-08	7.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



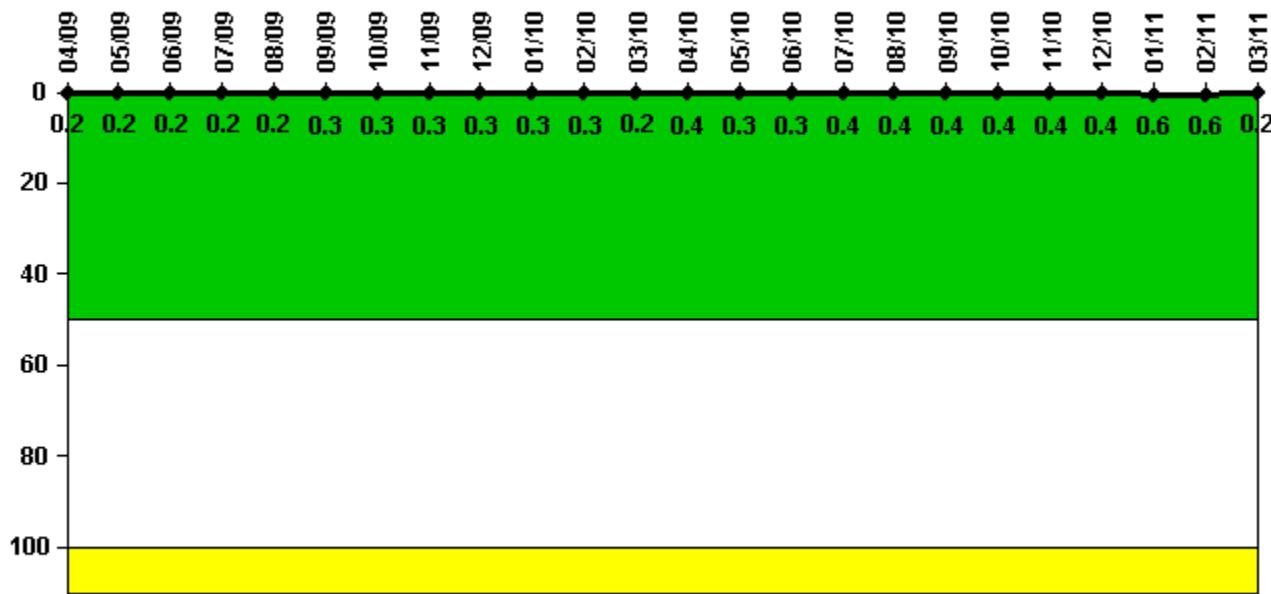
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	4.20E-08	4.20E-08	5.40E-08	5.72E-08	5.85E-08	6.57E-08	9.21E-08	9.31E-08
URI (Δ CDF)	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.79E-08	-1.77E-08	-1.09E-07
PLE	NO							
Indicator value	2.40E-08	2.40E-08	3.60E-08	3.90E-08	4.00E-08	4.80E-08	7.40E-08	-1.60E-08

Licensee Comments: none

Reactor Coolant System Activity



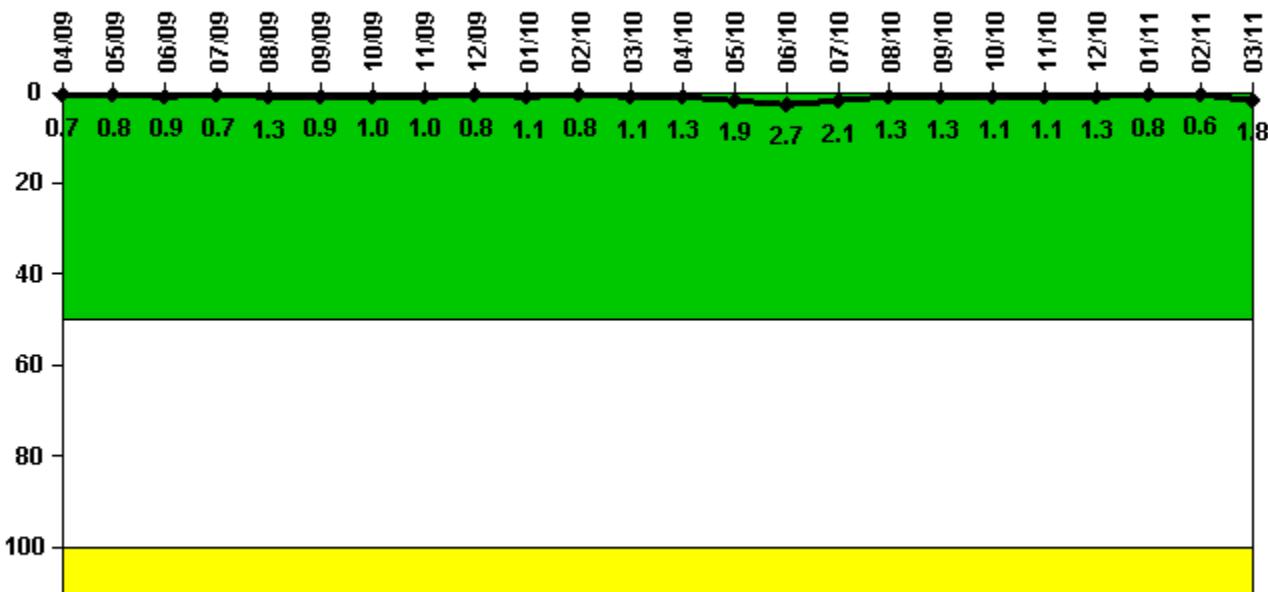
Thresholds: White > 50.0 Yellow > 100.0

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	0.002030	0.002060	0.002060	0.002430	0.002440	0.002560	0.002540	0.002950	0.003020	0.002880	0.003080	0.002190
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	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2
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	0.003500	0.003240	0.003420	0.003610	0.003970	0.004170	0.003950	0.003620	0.003710	0.003190	0.003230	0.000800
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5
Indicator value	0.4	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.2

Licensee Comments: none

Reactor Coolant System Leakage



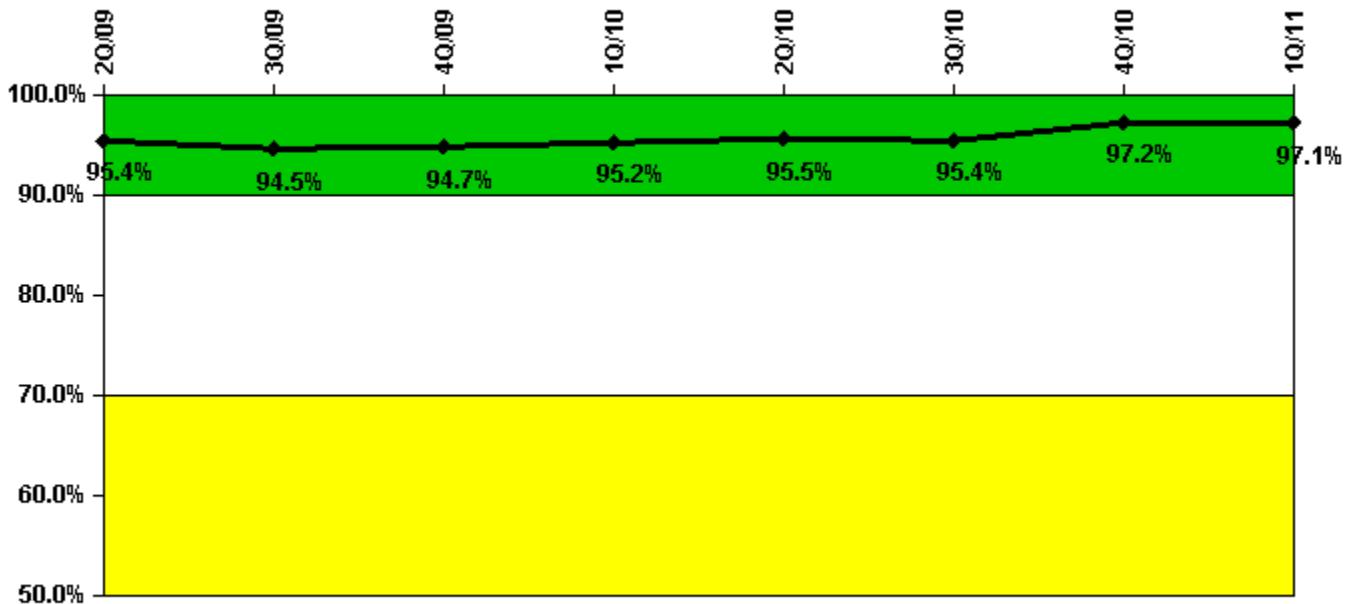
Thresholds: White > 50.0 Yellow > 100.0

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	0.070	0.080	0.090	0.070	0.130	0.090	0.100	0.100	0.080	0.110	0.080	0.110
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	0.7	0.8	0.9	0.7	1.3	0.9	1.0	1.0	0.8	1.1	0.8	1.1
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	0.134	0.190	0.270	0.210	0.130	0.130	0.110	0.110	0.130	0.080	0.060	0.180
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	1.3	1.9	2.7	2.1	1.3	1.3	1.1	1.1	1.3	0.8	0.6	1.8

Licensee Comments: none

Drill/Exercise Performance



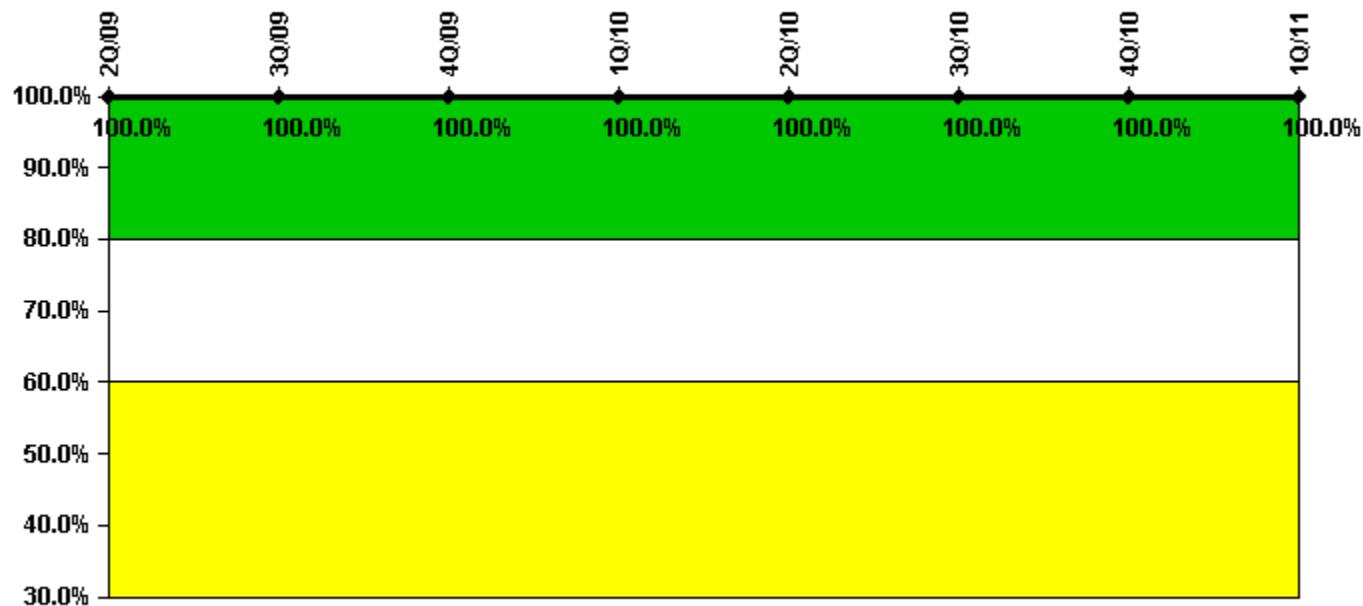
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful opportunities	30.0	43.0	63.0	13.0	23.0	76.0	53.0	4.0
Total opportunities	32.0	46.0	64.0	13.0	23.0	78.0	54.0	4.0
Indicator value	95.4%	94.5%	94.7%	95.2%	95.5%	95.4%	97.2%	97.1%

Licensee Comments: none

ERO Drill Participation



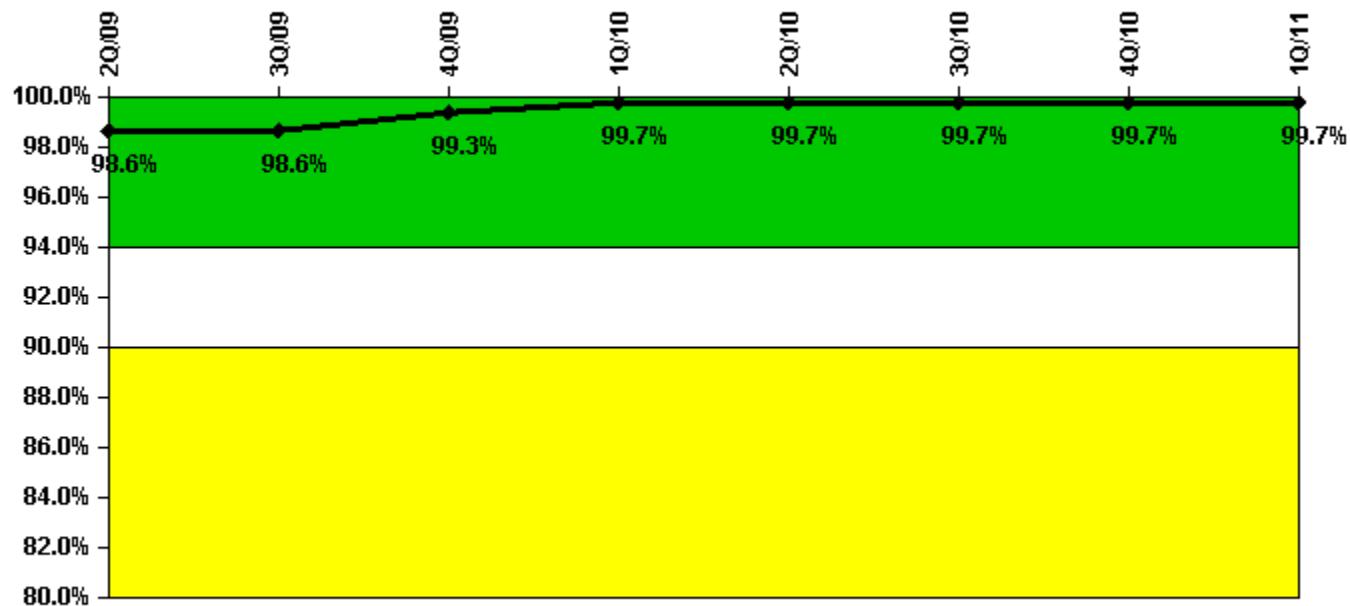
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Participating Key personnel	98.0	101.0	95.0	98.0	87.0	86.0	88.0	85.0
Total Key personnel	98.0	101.0	95.0	98.0	87.0	86.0	88.0	85.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



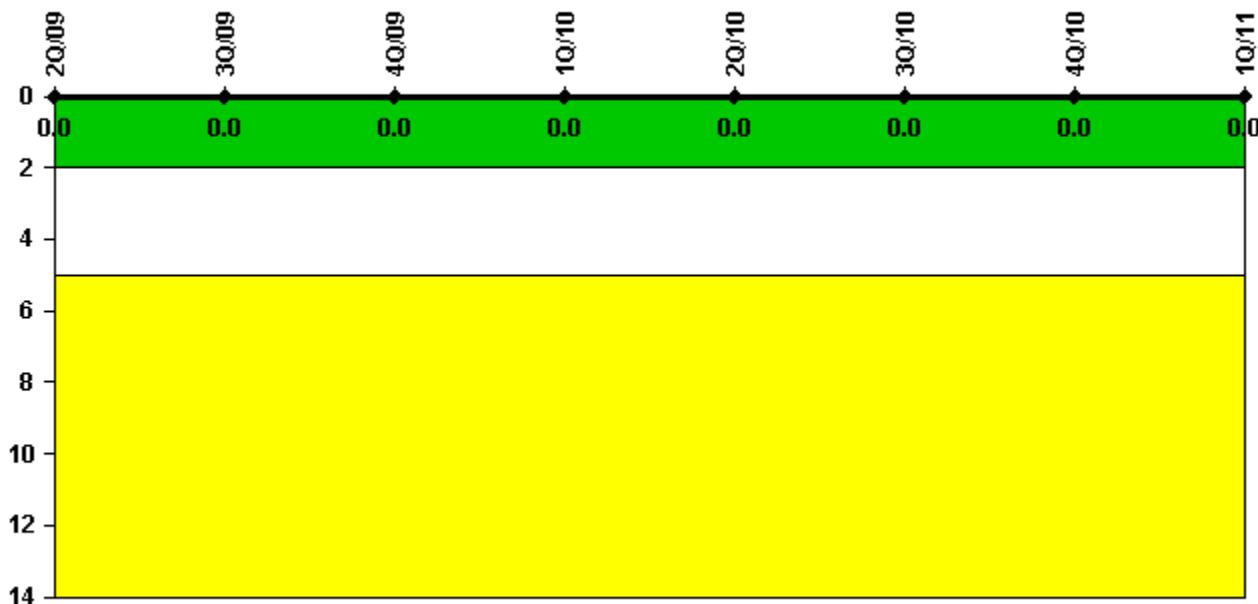
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful siren-tests	948	947	942	948	948	948	940	949
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	98.6%	98.6%	99.3%	99.7%	99.7%	99.7%	99.7%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



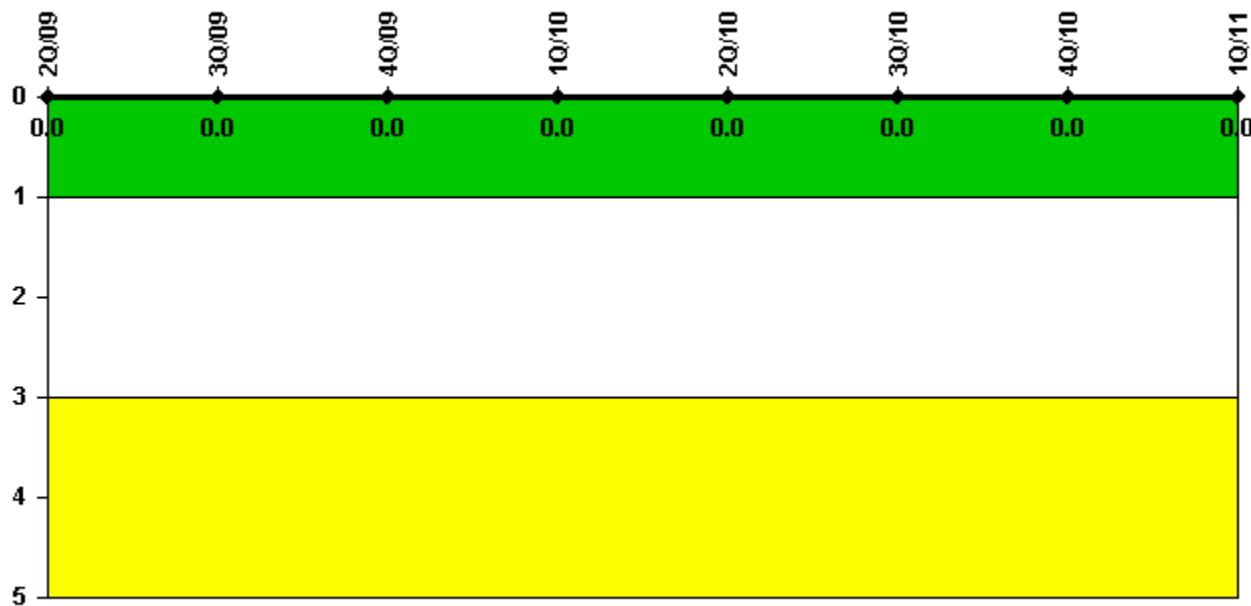
Thresholds: White > 2.0 Yellow > 5.0

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

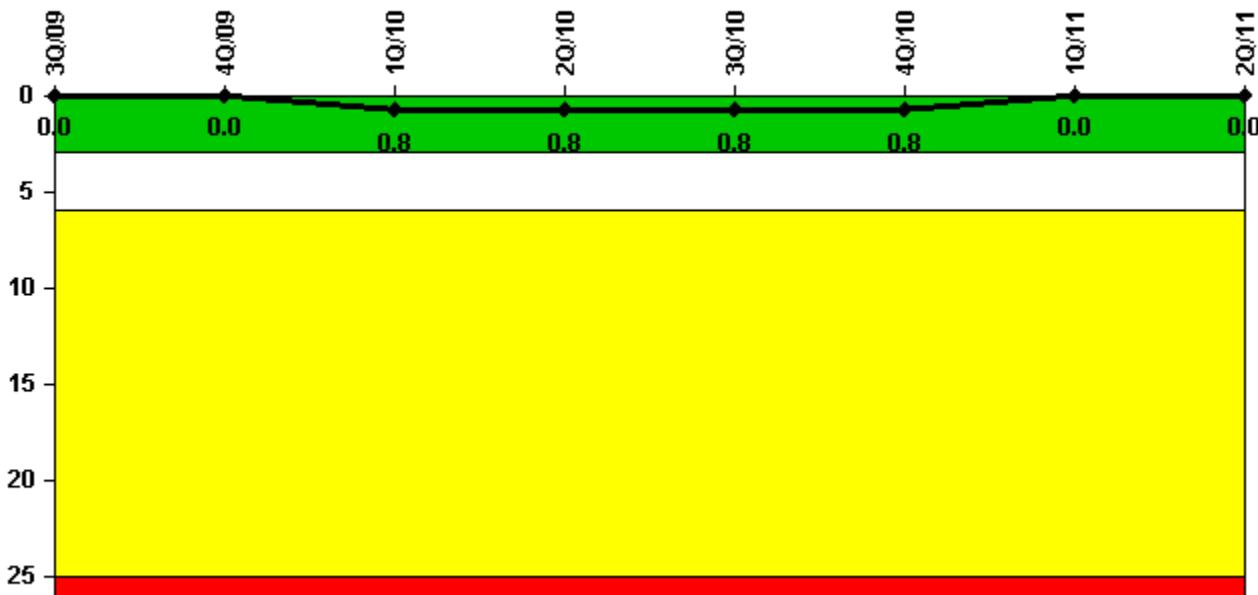
[Security](#) information not publicly available.

Calvert Cliffs 2

2Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



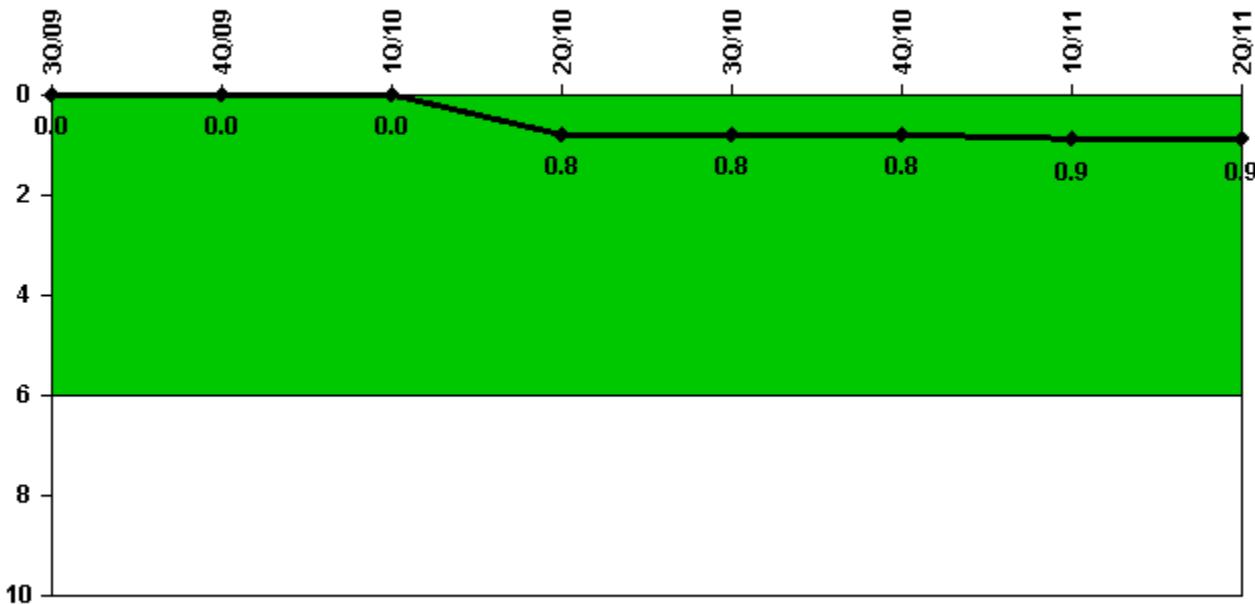
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	1.0	0	0	0	0	0
Critical hours	2208.0	2209.0	1941.7	2184.0	2208.0	2209.0	1475.6	2184.0
Indicator value	0	0	0.8	0.8	0.8	0.8	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



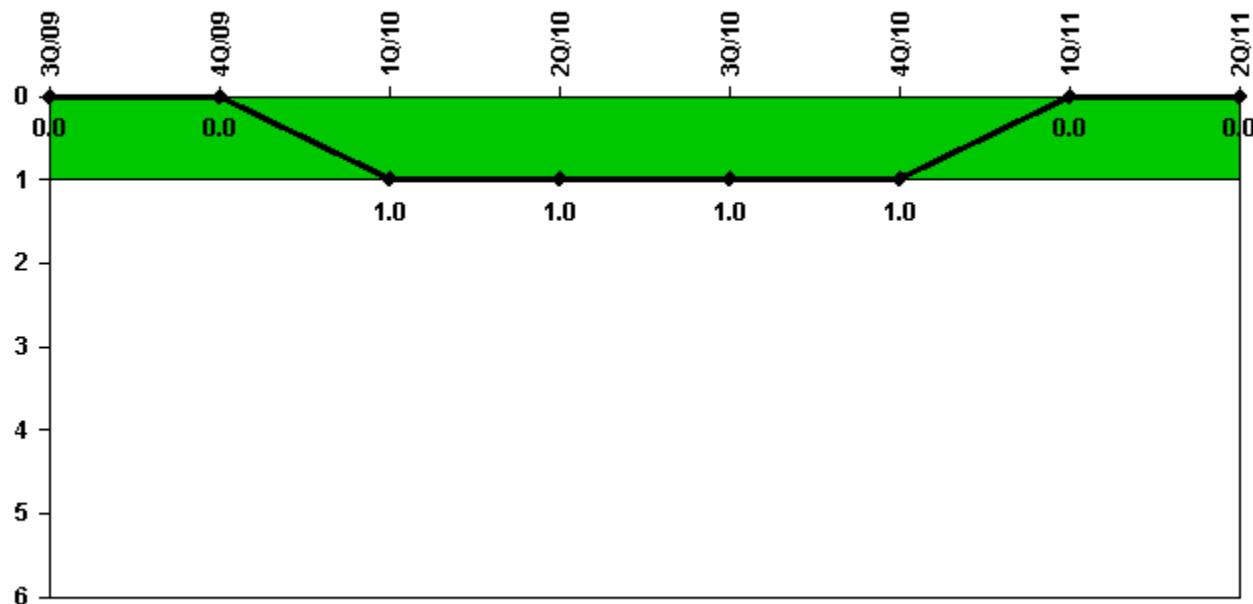
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned power changes	0	0	0	1.0	0	0	0	1.0
Critical hours	2208.0	2209.0	1941.7	2184.0	2208.0	2209.0	1475.6	2184.0
Indicator value	0	0	0	0.8	0.8	0.8	0.9	0.9

Licensee Comments: none

Unplanned Scrams with Complications



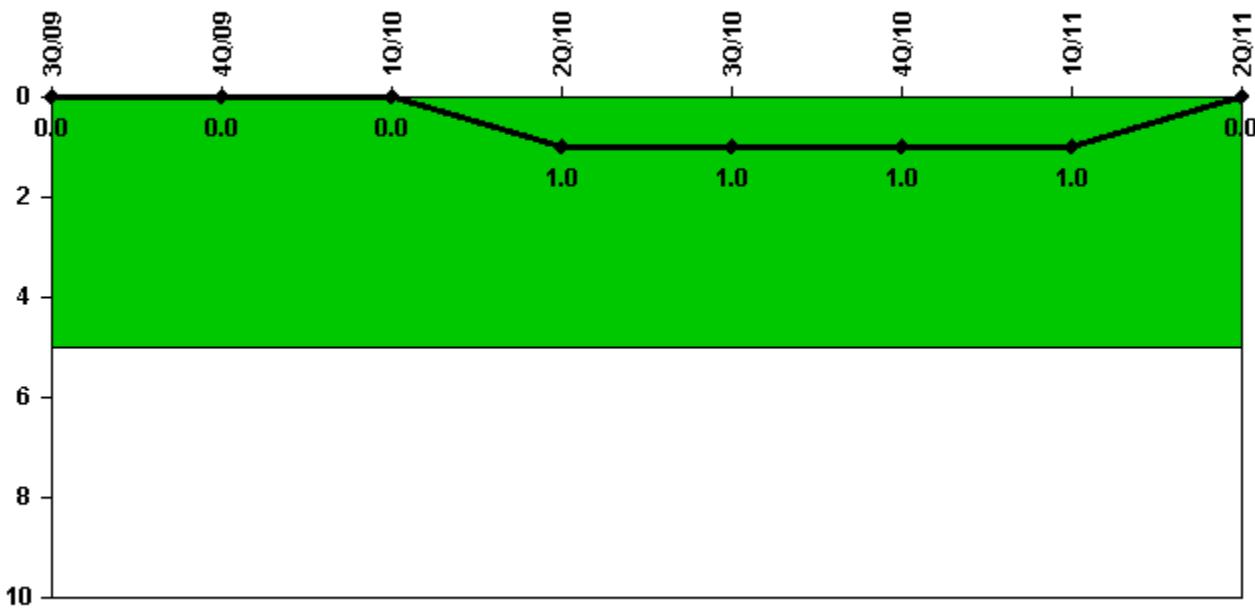
Thresholds: White > 1.0

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	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)



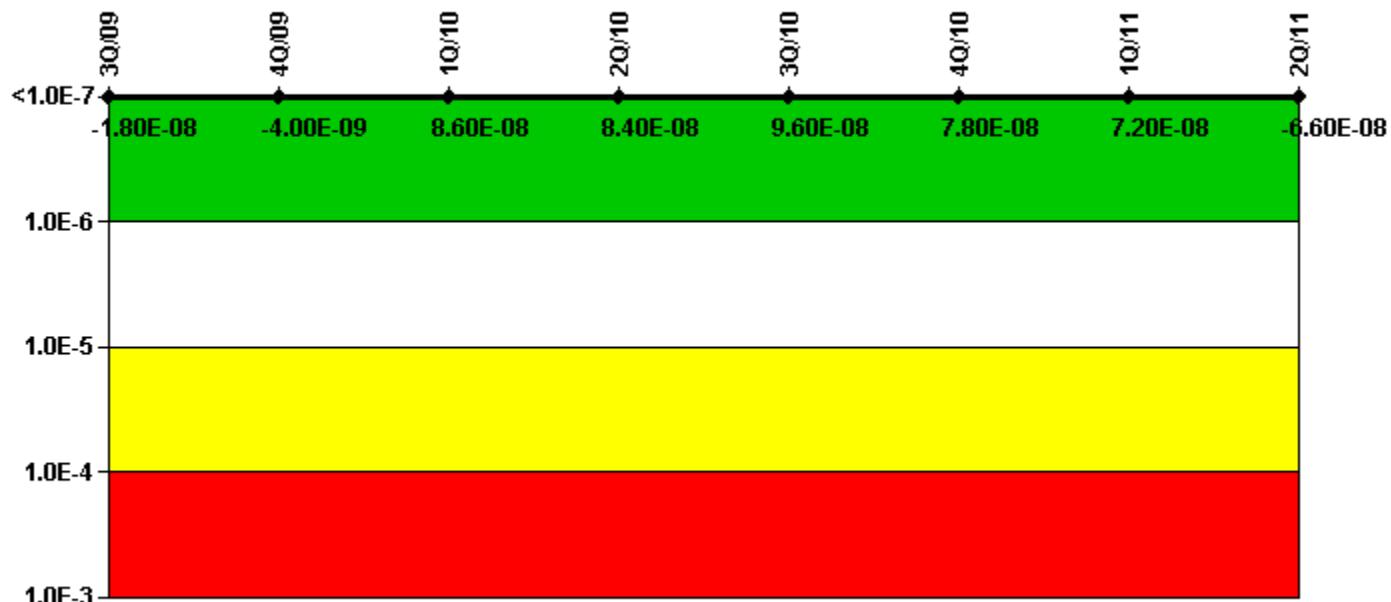
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
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

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

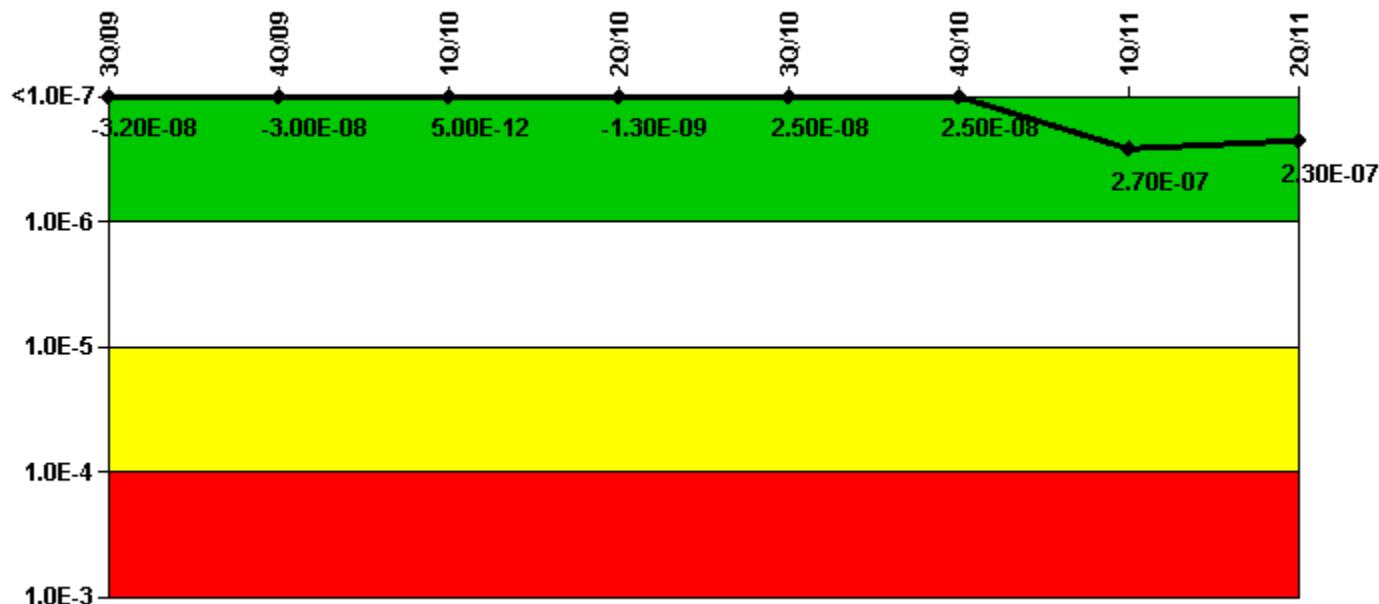
Notes

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)	5.60E-08	7.00E-08	1.00E-07	9.77E-08	1.11E-07	9.08E-08	8.65E-08	2.82E-09
URI (Δ CDF)	-7.40E-08	-7.40E-08	-1.46E-08	-1.40E-08	-1.45E-08	-1.29E-08	-1.42E-08	-6.86E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-4.00E-09	8.60E-08	8.40E-08	9.60E-08	7.80E-08	7.20E-08	-6.60E-08

Licensee Comments:

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

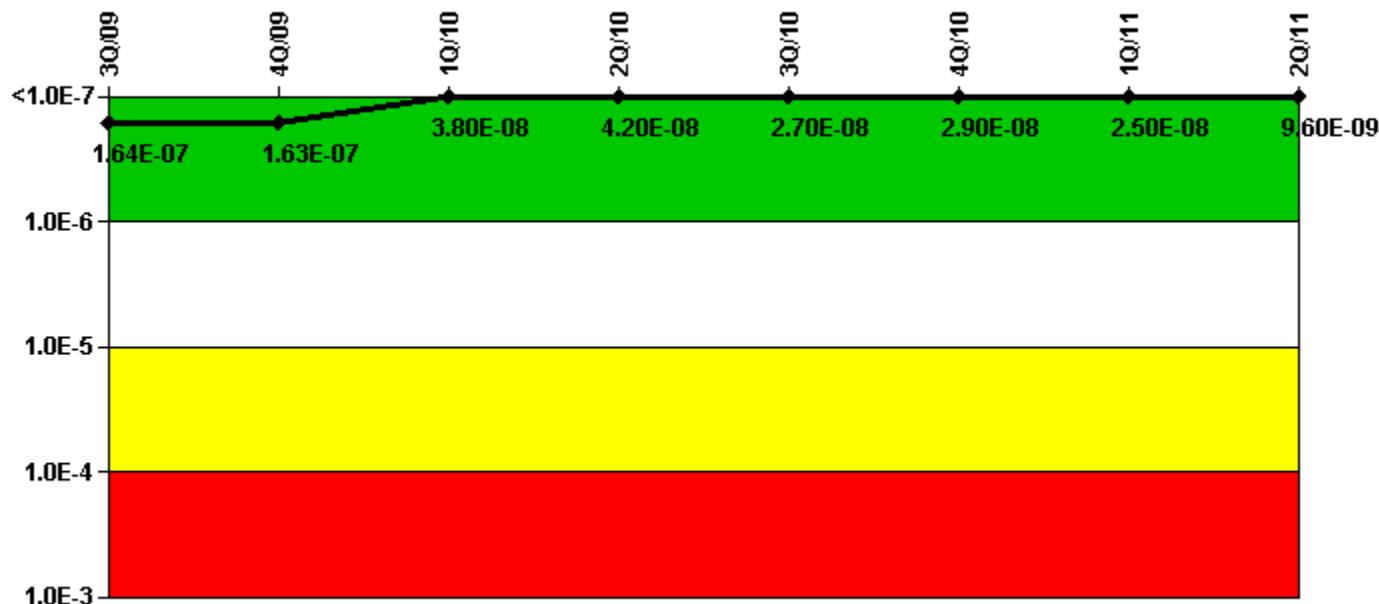
Notes

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)	4.20E-08	4.10E-08	6.40E-08	6.19E-08	8.72E-08	8.65E-08	1.33E-07	1.34E-07
URI (Δ CDF)	-7.40E-08	-7.10E-08	-6.40E-08	-6.31E-08	-6.18E-08	-6.16E-08	1.33E-07	9.42E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.20E-08	-3.00E-08	5.00E-12	-1.30E-09	2.50E-08	2.50E-08	2.70E-07	2.30E-07

Licensee Comments:

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

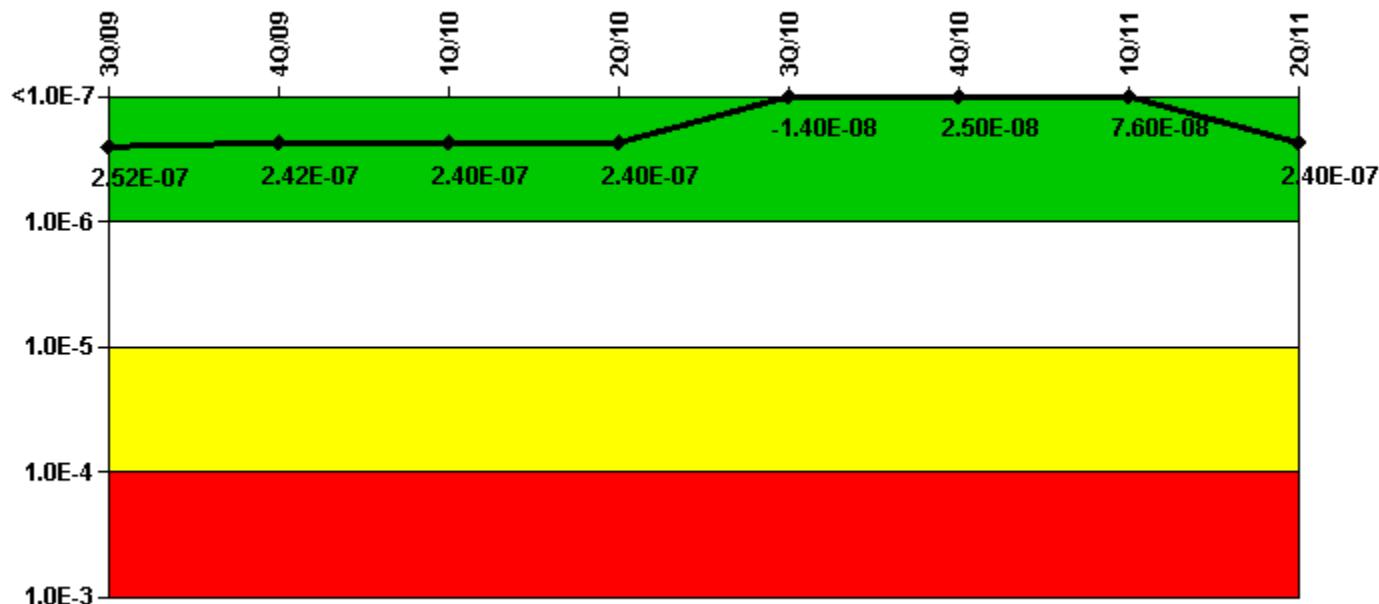
Notes

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)	3.50E-09	3.10E-09	1.31E-08	1.24E-08	-6.25E-09	-6.61E-09	-4.83E-09	-2.80E-09
URI (Δ CDF)	1.60E-07	1.60E-07	2.47E-08	2.99E-08	3.35E-08	3.56E-08	2.94E-08	1.24E-08
PLE	NO							
Indicator value	1.64E-07	1.63E-07	3.80E-08	4.20E-08	2.70E-08	2.90E-08	2.50E-08	9.60E-09

Licensee Comments:

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

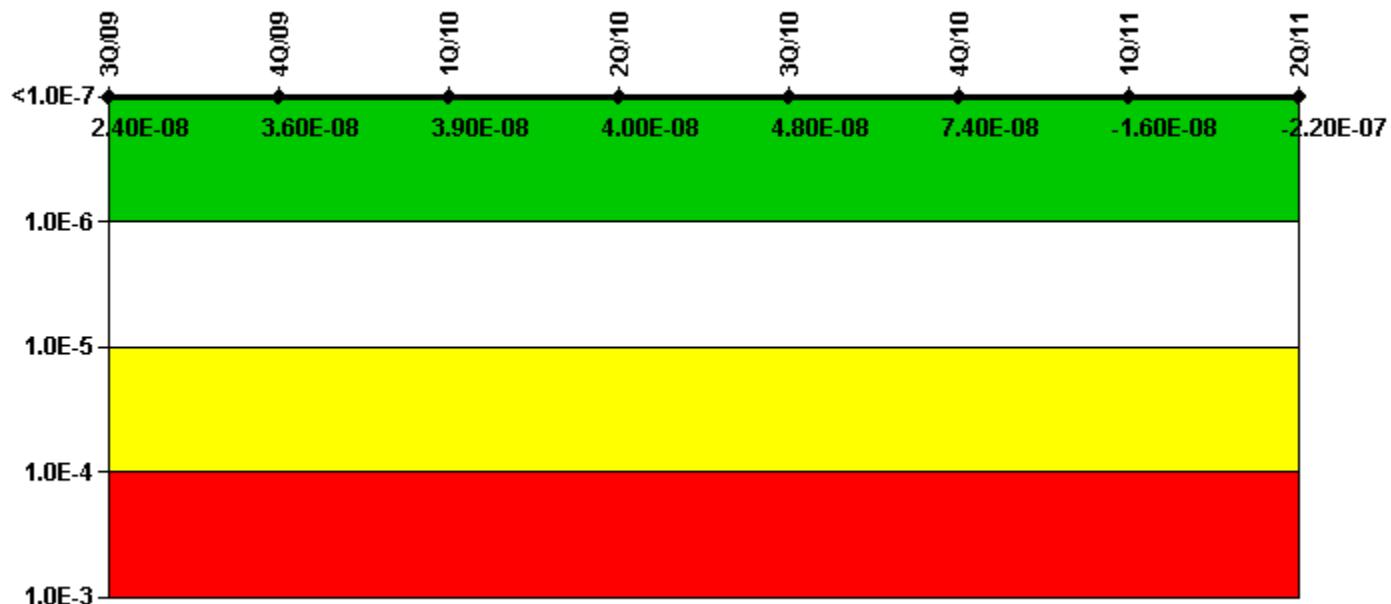
Notes

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)	2.40E-07	2.30E-07	2.25E-07	2.23E-07	-1.86E-08	2.06E-08	7.31E-08	2.43E-07
URI (Δ CDF)	1.20E-08	1.20E-08	1.34E-08	1.39E-08	4.19E-09	4.10E-09	2.91E-09	9.15E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.52E-07	2.42E-07	2.40E-07	2.40E-07	-1.40E-08	2.50E-08	7.60E-08	2.40E-07

Licensee Comments:

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

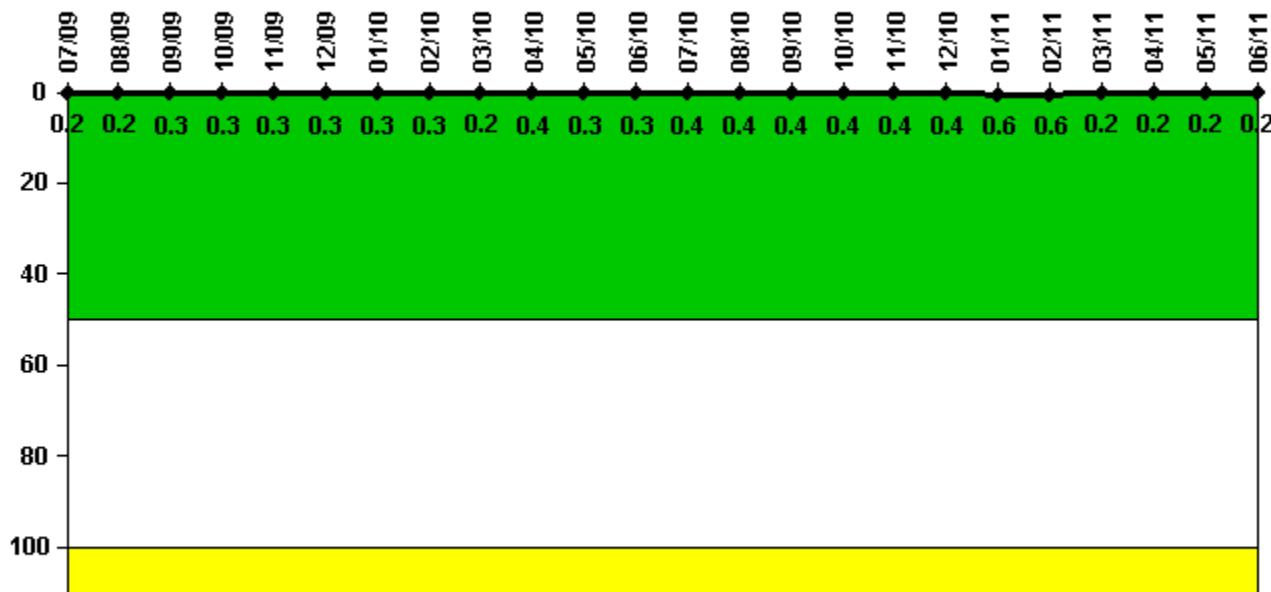
Notes

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)	$4.20E-08$	$5.40E-08$	$5.72E-08$	$5.85E-08$	$6.57E-08$	$9.21E-08$	$9.31E-08$	$6.75E-09$
URI (Δ CDF)	$-1.80E-08$	$-1.80E-08$	$-1.80E-08$	$-1.80E-08$	$-1.79E-08$	$-1.77E-08$	$-1.09E-07$	$-2.24E-07$
PLE	NO	NO						
Indicator value	$2.40E-08$	$3.60E-08$	$3.90E-08$	$4.00E-08$	$4.80E-08$	$7.40E-08$	$-1.60E-08$	$-2.20E-07$

Licensee Comments:

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization

Reactor Coolant System Activity



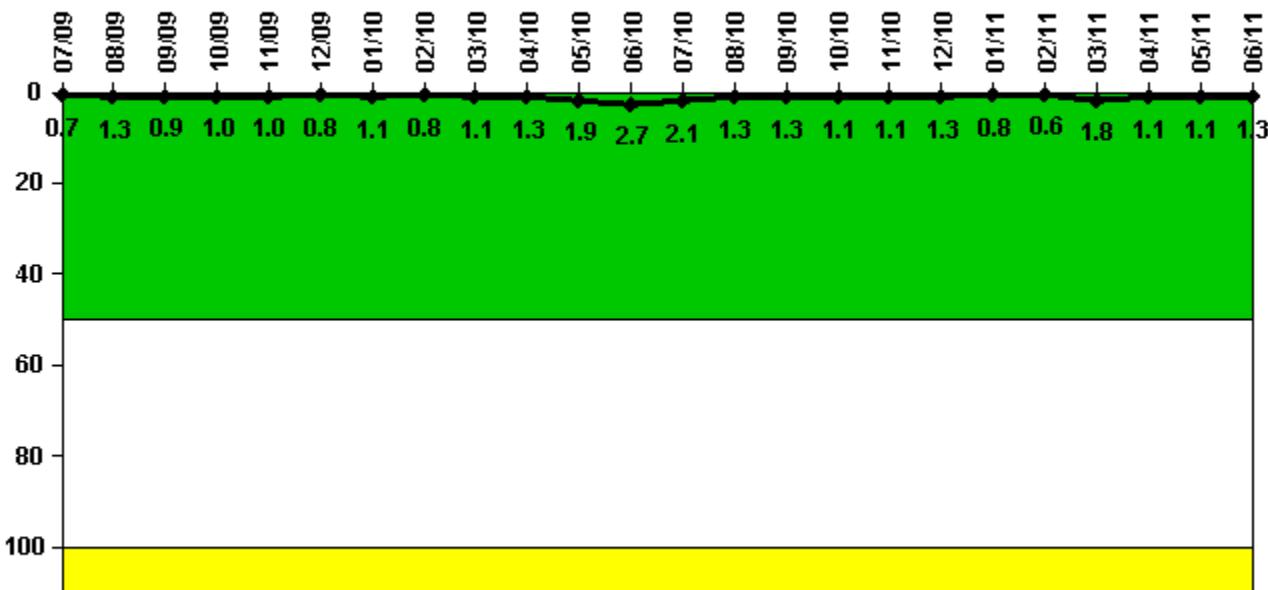
Thresholds: White > 50.0 Yellow > 100.0

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	0.002430	0.002440	0.002560	0.002540	0.002950	0.003020	0.002880	0.003080	0.002190	0.003500	0.003240	0.003420
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	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.4	0.3	0.3
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	0.003610	0.003970	0.004170	0.003950	0.003620	0.003710	0.003190	0.003230	0.000800	0.000863	0.000877	0.000842
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



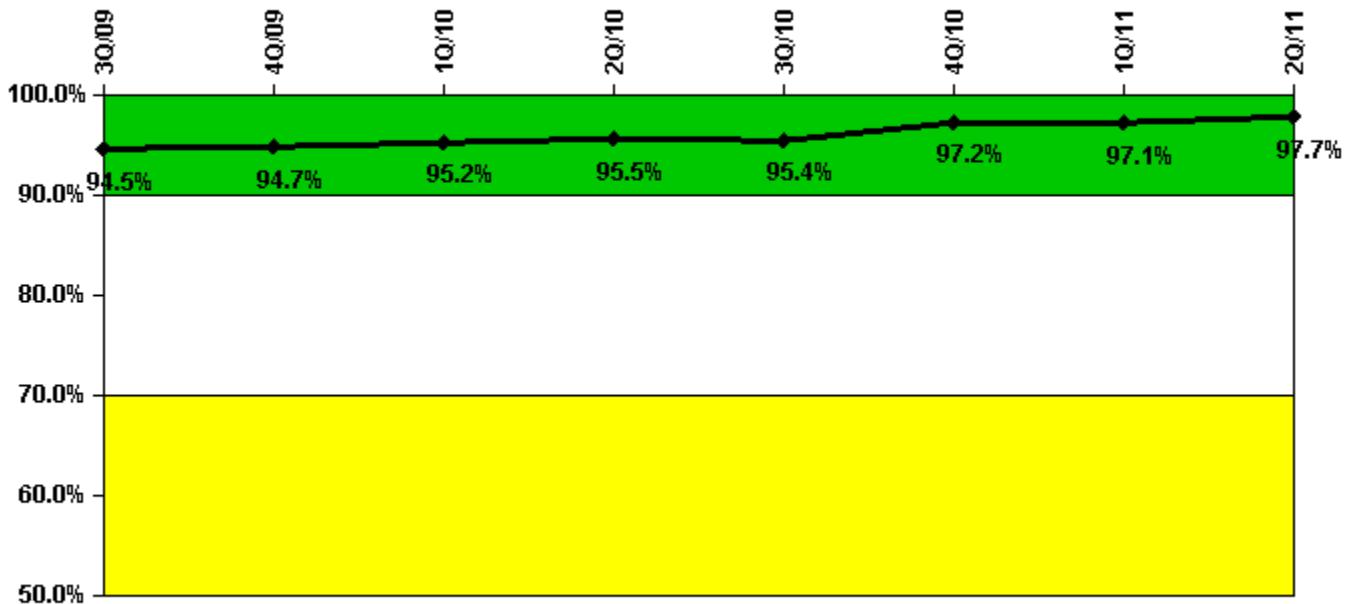
Thresholds: White > 50.0 Yellow > 100.0

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	0.070	0.130	0.090	0.100	0.100	0.080	0.110	0.080	0.110	0.134	0.190	0.270
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	0.7	1.3	0.9	1.0	1.0	0.8	1.1	0.8	1.1	1.3	1.9	2.7
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	0.210	0.130	0.130	0.110	0.110	0.130	0.080	0.060	0.180	0.110	0.110	0.130
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	2.1	1.3	1.3	1.1	1.1	1.3	0.8	0.6	1.8	1.1	1.1	1.3

Licensee Comments: none

Drill/Exercise Performance



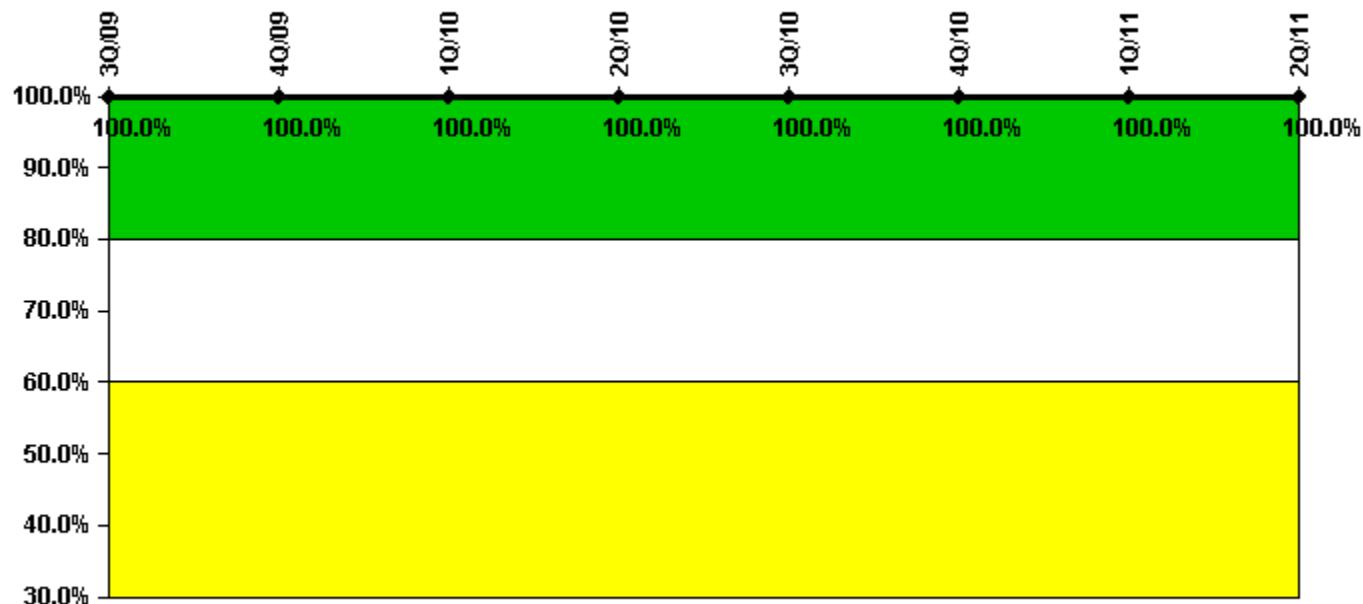
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful opportunities	43.0	63.0	13.0	23.0	76.0	53.0	4.0	58.0
Total opportunities	46.0	64.0	13.0	23.0	78.0	54.0	4.0	59.0
Indicator value	94.5%	94.7%	95.2%	95.5%	95.4%	97.2%	97.1%	97.7%

Licensee Comments: none

ERO Drill Participation



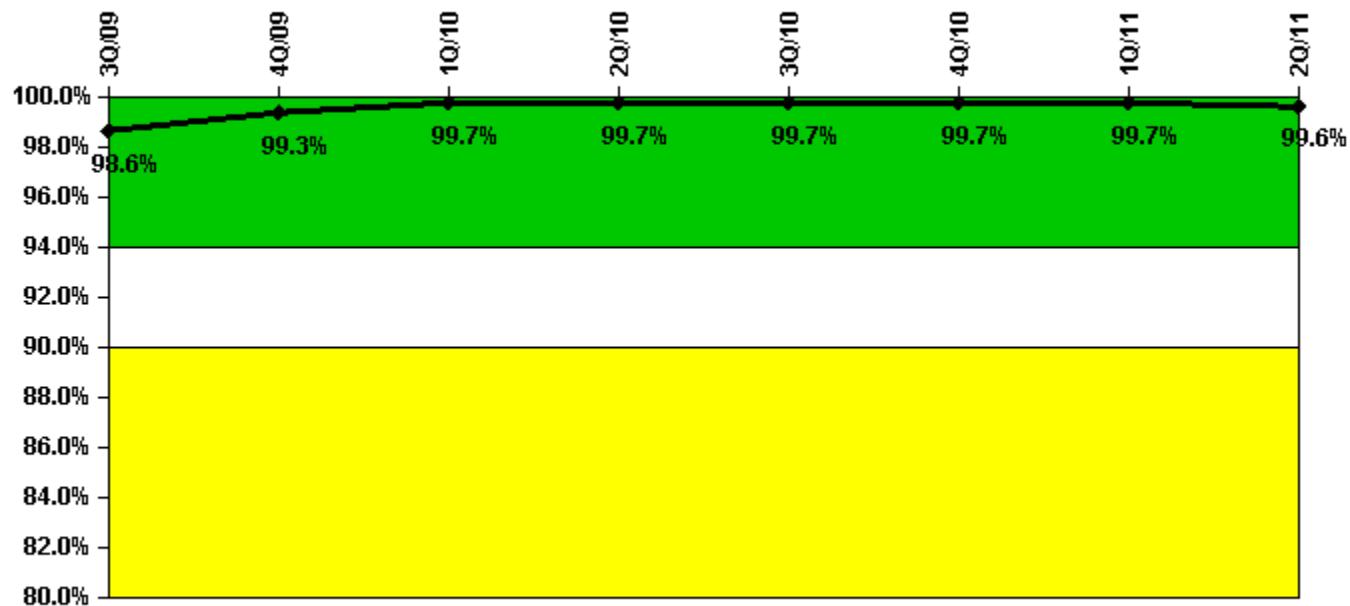
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Participating Key personnel	101.0	95.0	98.0	87.0	86.0	88.0	85.0	88.0
Total Key personnel	101.0	95.0	98.0	87.0	86.0	88.0	85.0	88.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



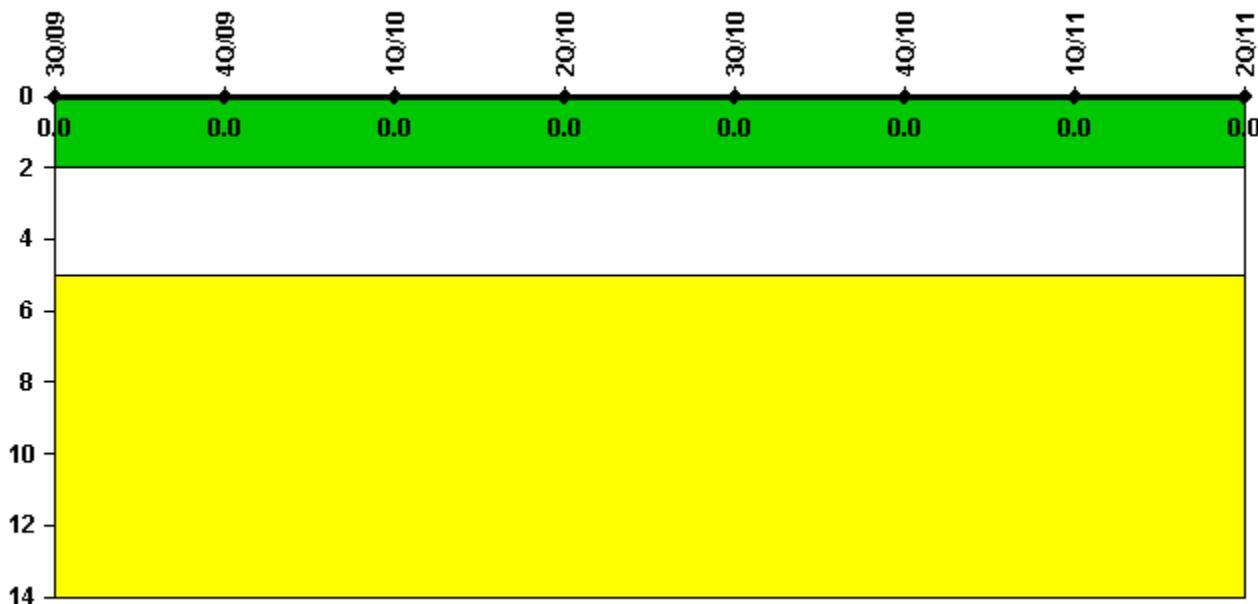
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful siren-tests	947	942	948	948	948	940	949	945
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	98.6%	99.3%	99.7%	99.7%	99.7%	99.7%	99.7%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



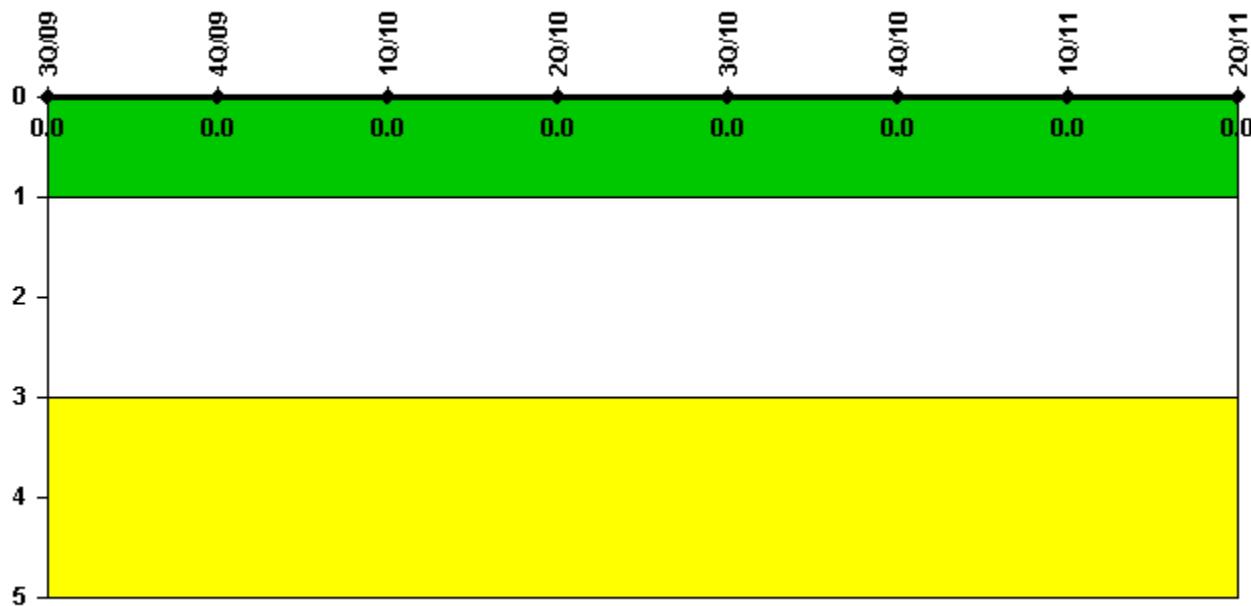
Thresholds: White > 2.0 Yellow > 5.0

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

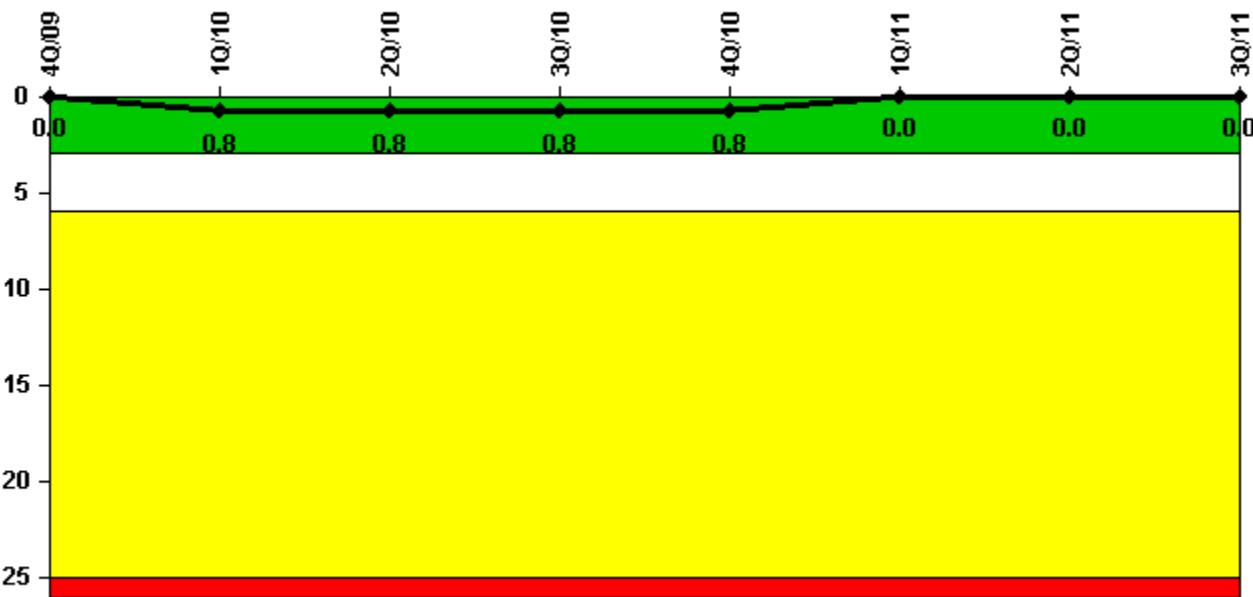
[Security](#) information not publicly available.

Calvert Cliffs 2

3Q/2011 Performance Indicators

Licensee's General Comments: Several changes were made in ePix due to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March. Other changes were made due to assignment of MSPI Unit effect for the AFW alternate Unit supply valves to the affected Unit all the way back to the MSPI origin in 2Q2006.

Unplanned Scrams per 7000 Critical Hrs



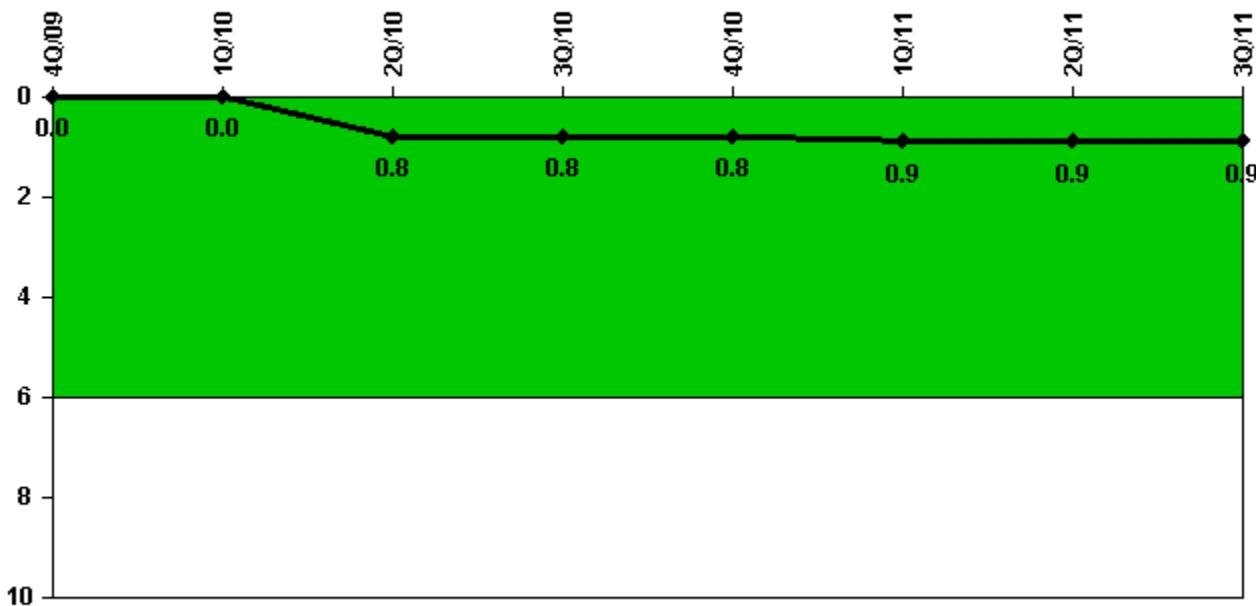
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	0	0	0
Critical hours	2209.0	1941.7	2184.0	2208.0	2209.0	1475.6	2184.0	2208.0
Indicator value	0	0.8	0.8	0.8	0.8	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



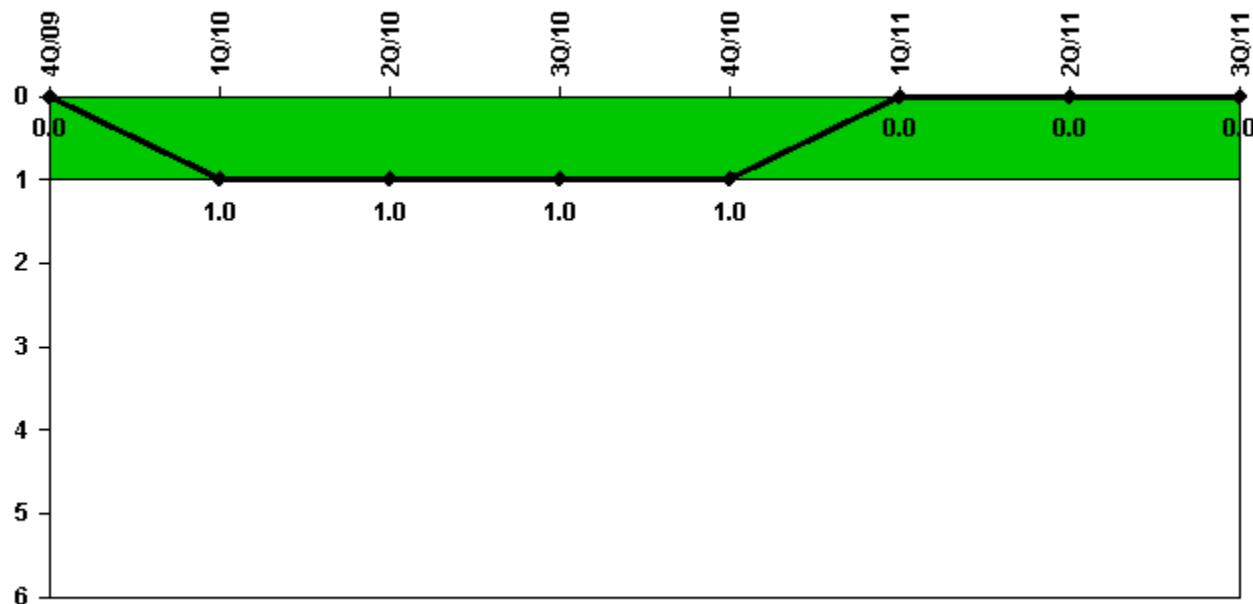
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned power changes	0	0	1.0	0	0	0	1.0	0
Critical hours	2209.0	1941.7	2184.0	2208.0	2209.0	1475.6	2184.0	2208.0
Indicator value	0	0	0.8	0.8	0.8	0.9	0.9	0.9

Licensee Comments: none

Unplanned Scrams with Complications



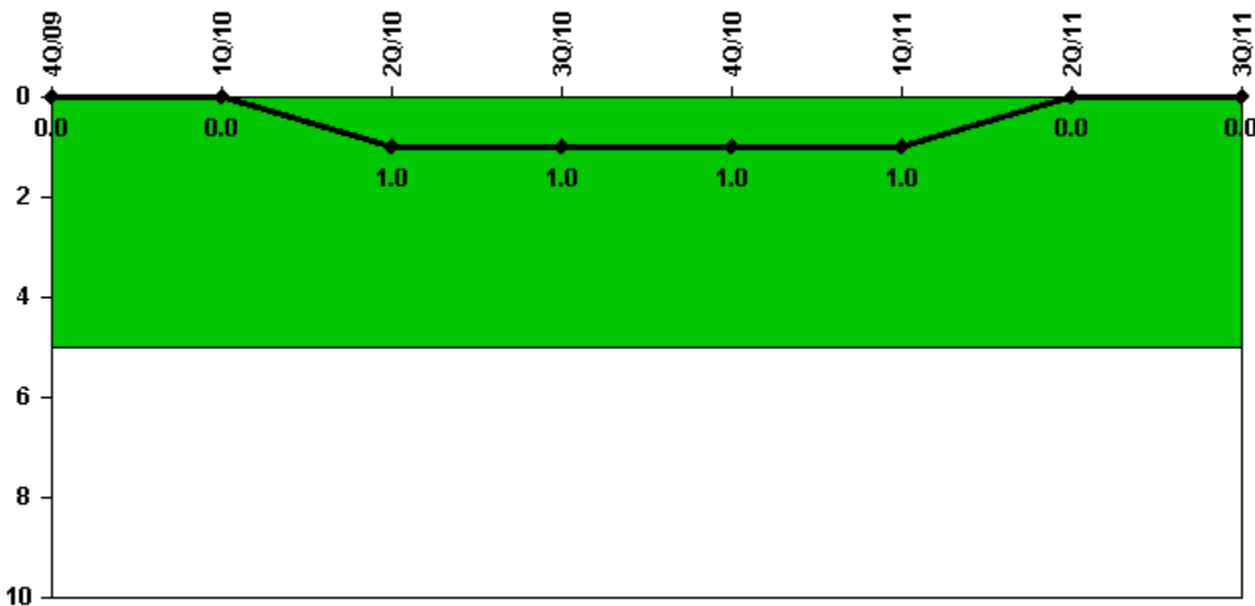
Thresholds: White > 1.0

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	1.0	0	0	0	0	0	0
Indicator value	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



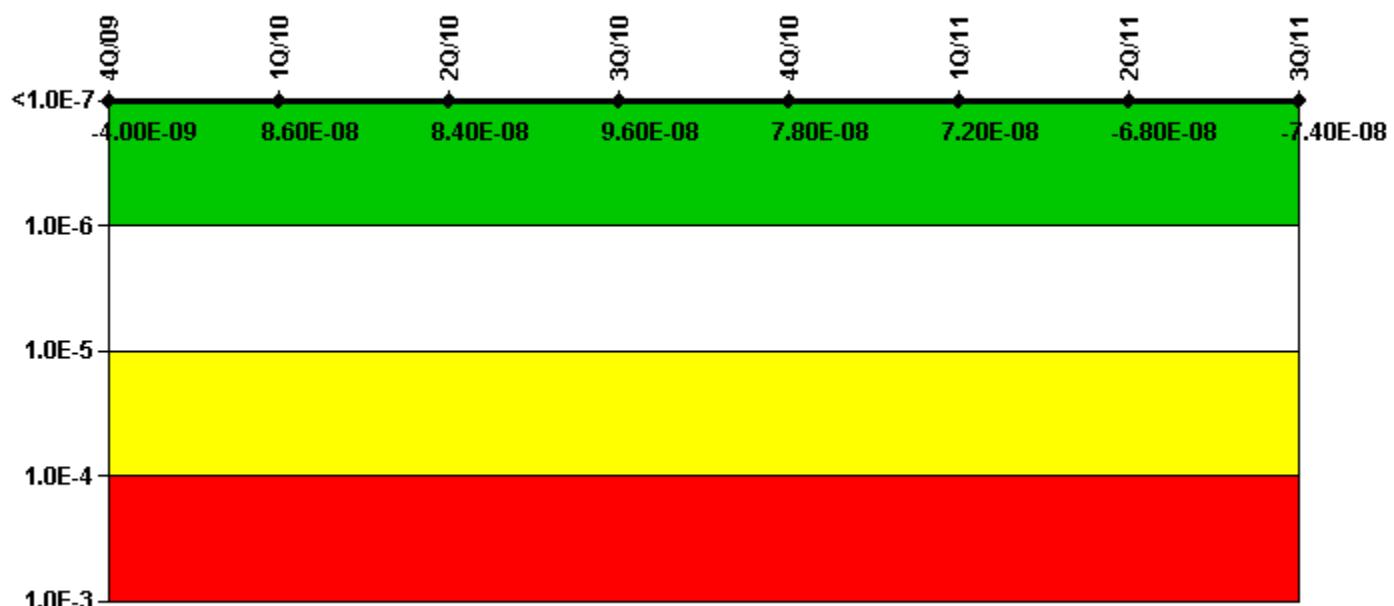
Thresholds: White > 5.0

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	1	0	0	0	0	0
Indicator value	0	0	1	1	1	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

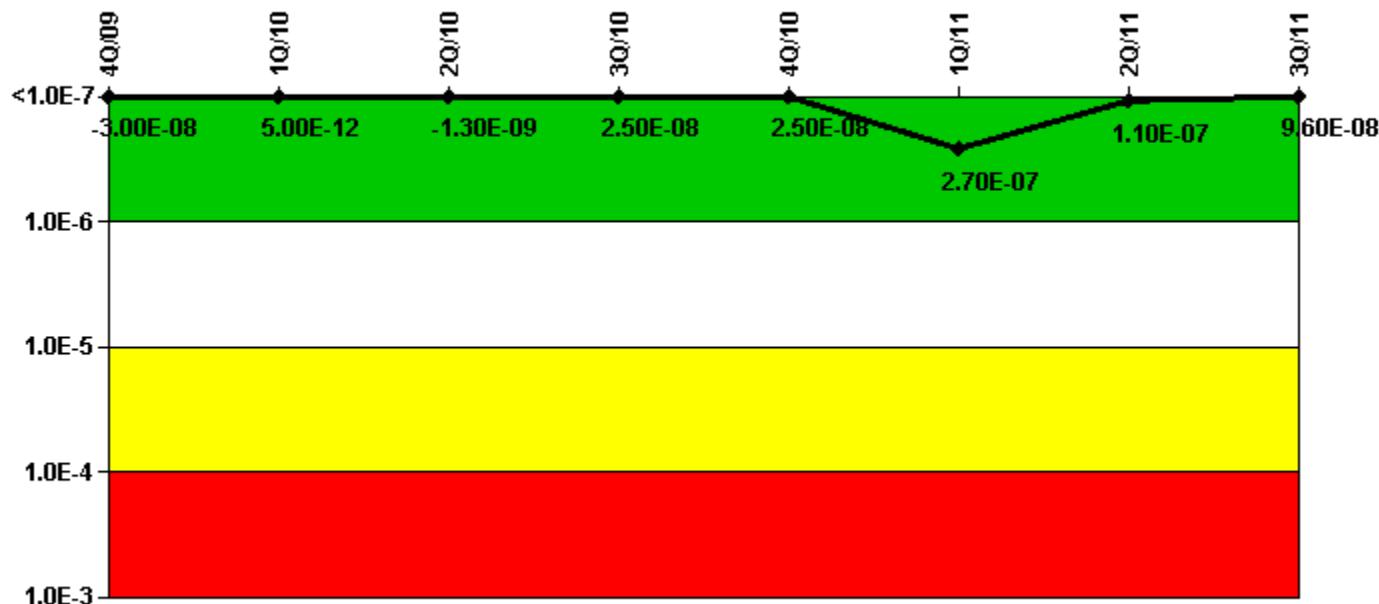
Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	7.00E-08	1.00E-07	9.77E-08	1.11E-07	9.08E-08	8.65E-08	2.82E-09	-4.23E-09
URI (Δ CDF)	-7.40E-08	-1.46E-08	-1.40E-08	-1.45E-08	-1.29E-08	-1.42E-08	-7.07E-08	-6.94E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.00E-09	8.60E-08	8.40E-08	9.60E-08	7.80E-08	7.20E-08	-6.80E-08	-7.40E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

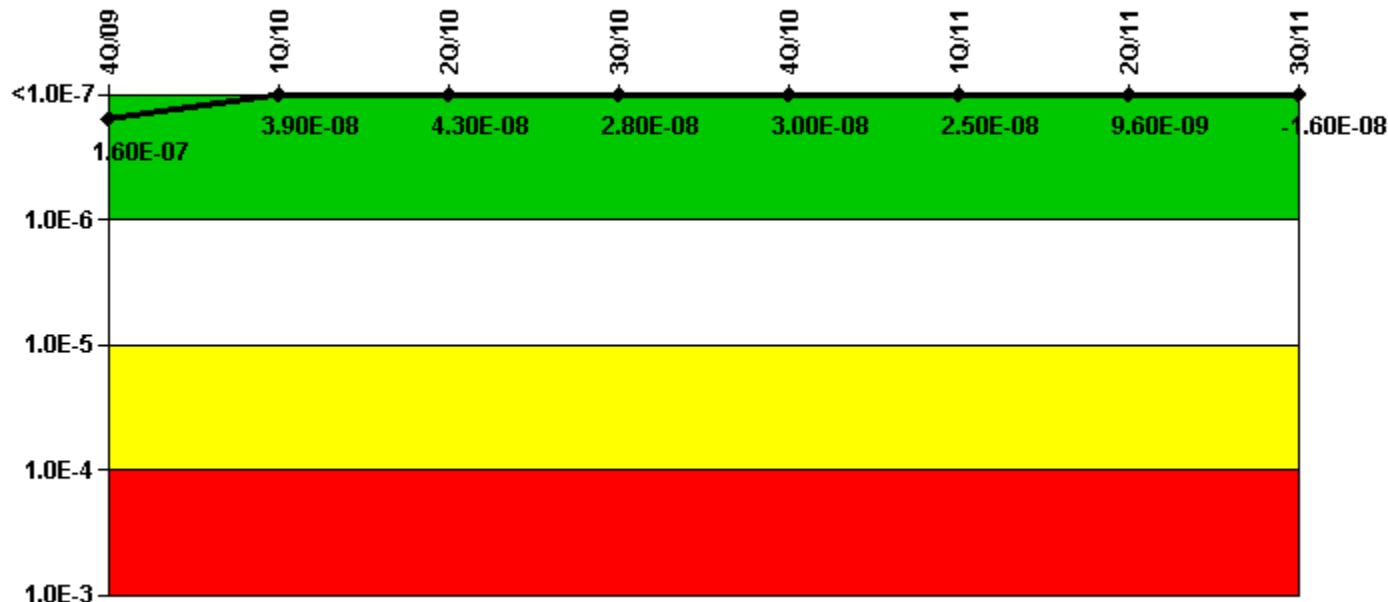
Mitigating Systems Performance Index, High Pressure Injection System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	4.10E-08	6.40E-08	6.19E-08	8.72E-08	8.65E-08	1.33E-07	1.64E-08	5.59E-09
URI (Δ CDF)	-7.10E-08	-6.40E-08	-6.31E-08	-6.18E-08	-6.16E-08	1.33E-07	9.42E-08	9.06E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.00E-08	5.00E-12	-1.30E-09	2.50E-08	2.50E-08	2.70E-07	1.10E-07	9.60E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/10: 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

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)	3.10E-09	1.31E-08	1.24E-08	-6.25E-09	-6.61E-09	-4.83E-09	-2.80E-09	-2.77E-09
URI (Δ CDF)	1.59E-07	2.54E-08	3.06E-08	3.41E-08	3.62E-08	3.00E-08	1.24E-08	-1.28E-08
PLE	NO							
Indicator value	1.60E-07	3.90E-08	4.30E-08	2.80E-08	3.00E-08	2.50E-08	9.60E-09	-1.60E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

1Q/11: Changed PRA Parameter(s). Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

4Q/10: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

3Q/10: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

2Q/10: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

1Q/10: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

4Q/09: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

3Q/09: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

2Q/09: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

1Q/09: Risk Cap Invoked. Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

4Q/08: Risk Cap Invoked. Changed PRA Parameter(s). Change in unavailable hours for 23 AFW pump because it was determined that the motor driven AFW flow paths to both Steam Generators were simultaneously isolated for routine maintenance, this effectively removed 23 AFW pump from service. Previous performance of this maintenance was performed on one flow path at a time, which did not remove the pump from service. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

3Q/08: Risk Cap Invoked. Changed PRA Parameter(s). Change in unavailable hours for 23 AFW pump because it was determined that the motor driven AFW flow paths to both Steam Generators were simultaneously isolated for routine maintenance, this effectively removed 23 AFW pump from service. Previous performance of this maintenance was performed on one flow path at a time, which did not remove the pump from service. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

2Q/08: Risk Cap Invoked. Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

1Q/08: Risk Cap Invoked. Changed PRA Parameter(s). A failure on 3/31/2007 on 22 AFW Pp was reported as a fail-to-start event. The failure occurred two hours into the test run and should be classified as fail-to-run event. Record corrected on 12/17/2009 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

4Q/07: Risk Cap Invoked. Changed PRA Parameter(s). Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

3Q/07: Risk Cap Invoked. Changed PRA Parameter(s). Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

2Q/07: Risk Cap Invoked. Changed PRA Parameter(s). Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

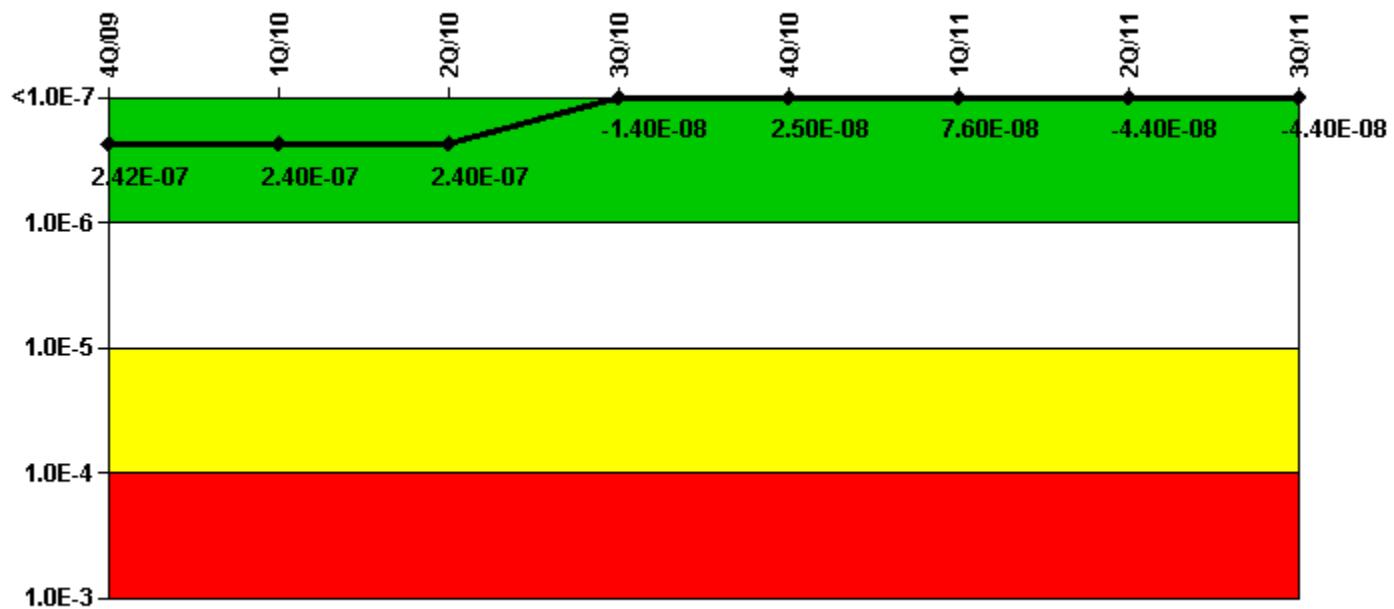
1Q/07: Risk Cap Invoked. Changed PRA Parameter(s). Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

4Q/06: Changed PRA Parameter(s). Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

3Q/06: Changed PRA Parameter(s). Unavailable hours originally included time whenever AFW room doors were open due to HELB concerns. Room doors are outside AFW system boundaries and NEI-99-02 does not require unavailable hours solely from support systems to be cascaded to MSPI system. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

2Q/06: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

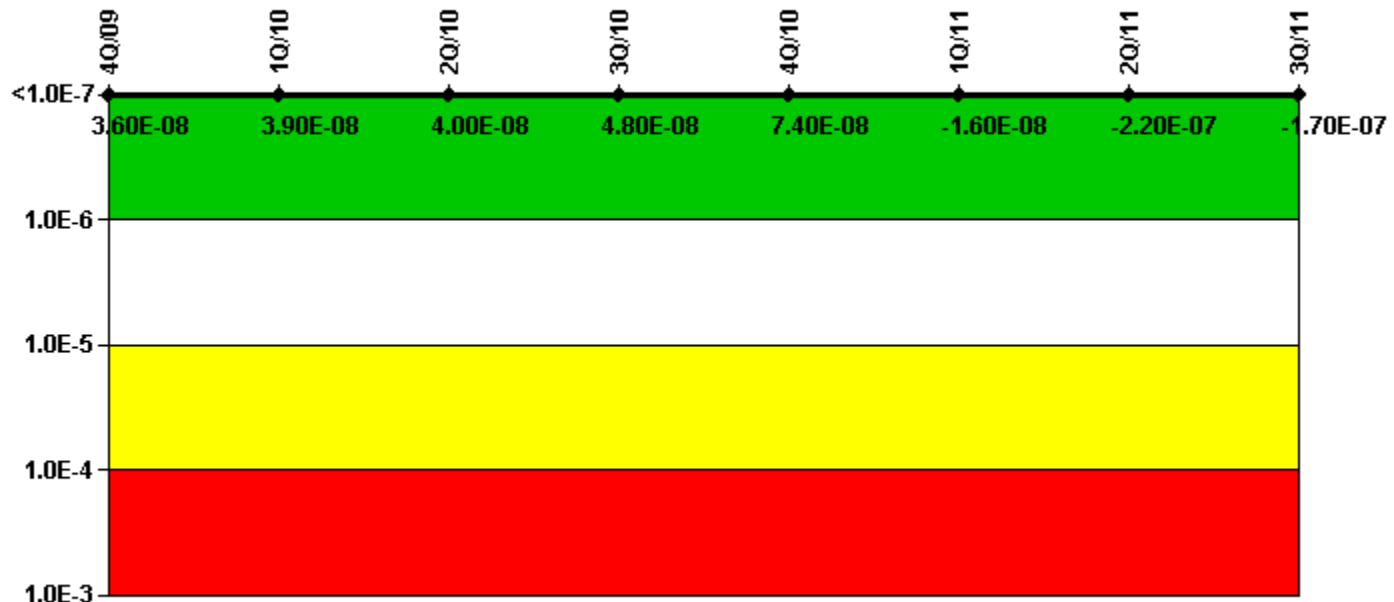
Notes

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)	2.30E-07	2.25E-07	2.23E-07	-1.86E-08	2.06E-08	7.31E-08	-4.54E-08	-4.51E-08
URI (Δ CDF)	1.20E-08	1.34E-08	1.39E-08	4.19E-09	4.10E-09	2.91E-09	9.15E-10	6.91E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.42E-07	2.40E-07	2.40E-07	-1.40E-08	2.50E-08	7.60E-08	-4.40E-08	-4.40E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

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)	5.40E-08	5.72E-08	5.85E-08	6.56E-08	9.20E-08	9.29E-08	7.52E-09	5.79E-08
URI (Δ CDF)	-1.80E-08	-1.80E-08	-1.80E-08	-1.79E-08	-1.77E-08	-1.09E-07	-2.24E-07	-2.28E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.60E-08	3.90E-08	4.00E-08	4.80E-08	7.40E-08	-1.60E-08	-2.20E-07	-1.70E-07

Licensee Comments:

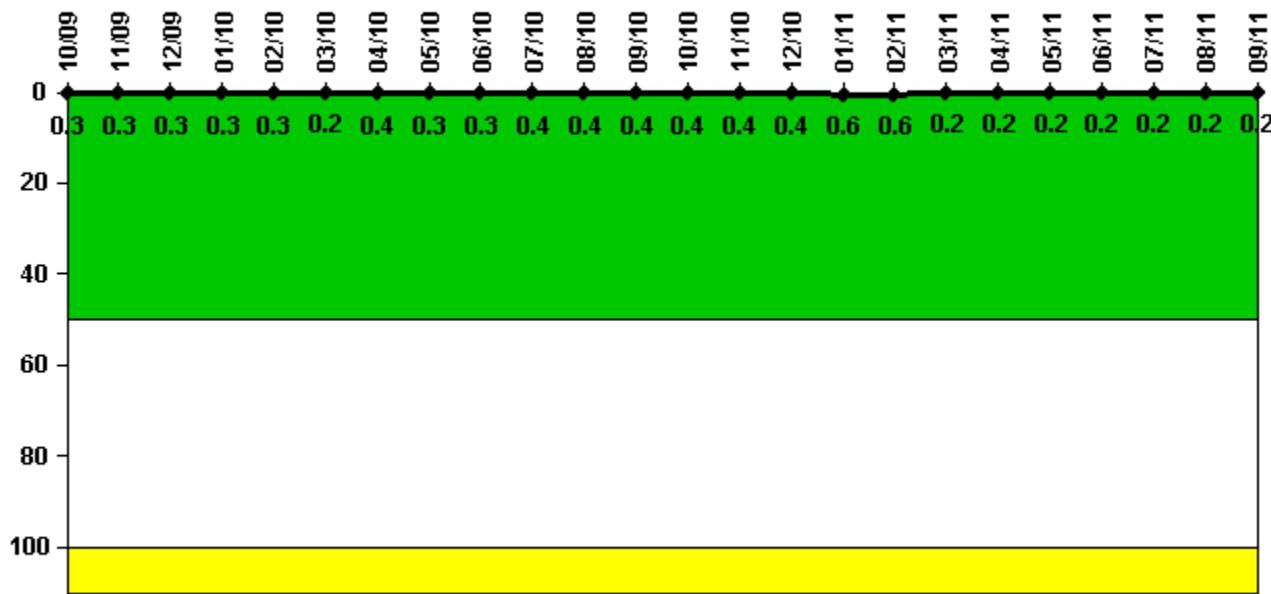
2Q/11: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization. 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

4Q/10: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

3Q/10: 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

Reactor Coolant System Activity



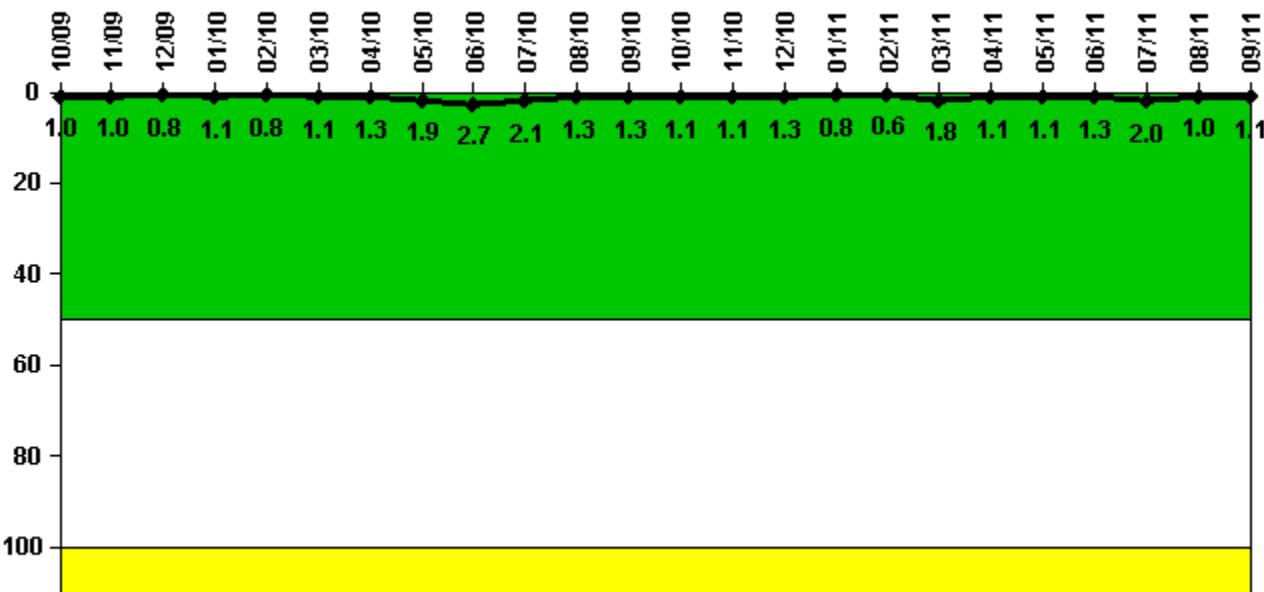
Thresholds: White > 50.0 Yellow > 100.0

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	0.002540	0.002950	0.003020	0.002880	0.003080	0.002190	0.003500	0.003240	0.003420	0.003610	0.003970	0.004170
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	0.3	0.3	0.3	0.3	0.3	0.2	0.4	0.3	0.3	0.4	0.4	0.4
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	0.003950	0.003620	0.003710	0.003190	0.003230	0.000800	0.000863	0.000877	0.000842	0.000878	0.000956	0.001090
Technical specification limit	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.4	0.4	0.4	0.6	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



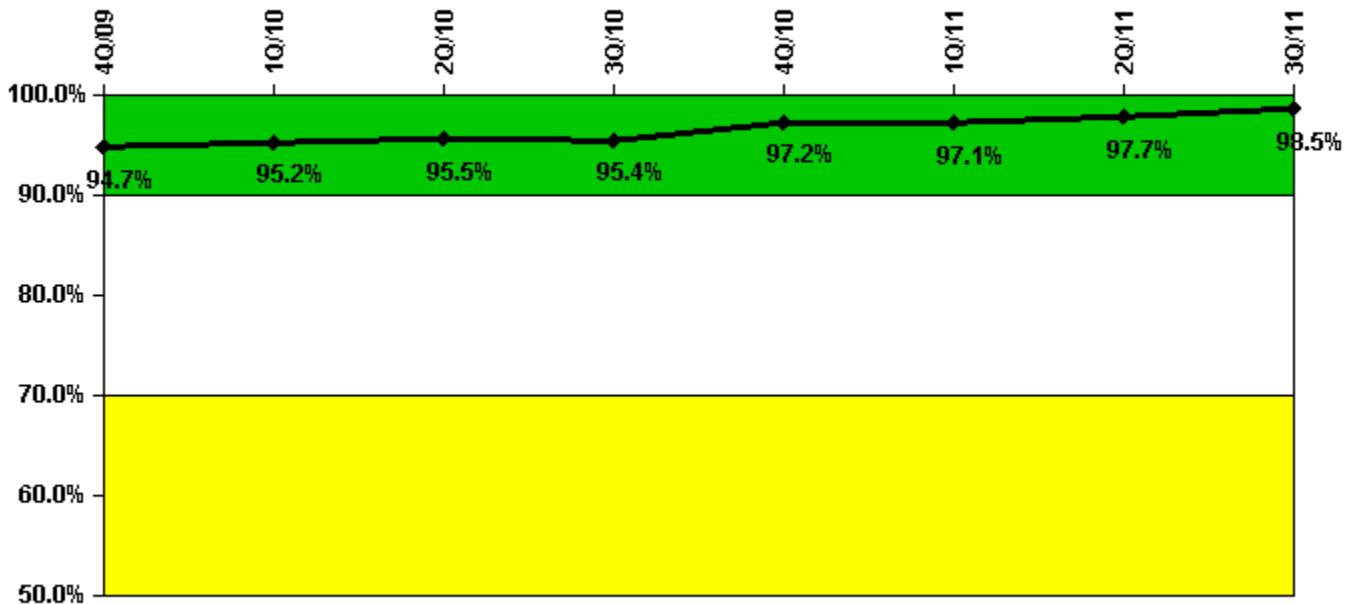
Thresholds: White > 50.0 Yellow > 100.0

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	0.100	0.100	0.080	0.110	0.080	0.110	0.134	0.190	0.270	0.210	0.130	0.130
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	1.0	1.0	0.8	1.1	0.8	1.1	1.3	1.9	2.7	2.1	1.3	1.3
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	0.110	0.110	0.130	0.080	0.060	0.180	0.110	0.110	0.130	0.200	0.100	0.110
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	1.1	1.1	1.3	0.8	0.6	1.8	1.1	1.1	1.3	2.0	1.0	1.1

Licensee Comments: none

Drill/Exercise Performance



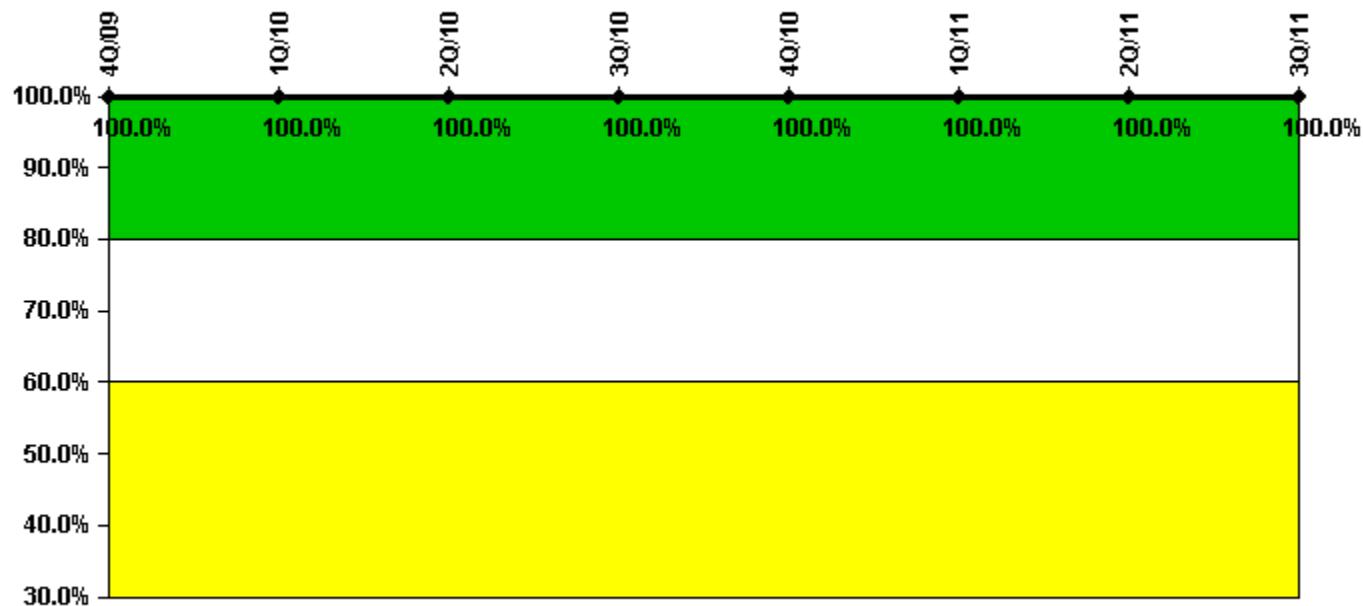
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful opportunities	63.0	13.0	23.0	76.0	53.0	4.0	58.0	30.0
Total opportunities	64.0	13.0	23.0	78.0	54.0	4.0	59.0	30.0
Indicator value	94.7%	95.2%	95.5%	95.4%	97.2%	97.1%	97.7%	98.5%

Licensee Comments: none

ERO Drill Participation



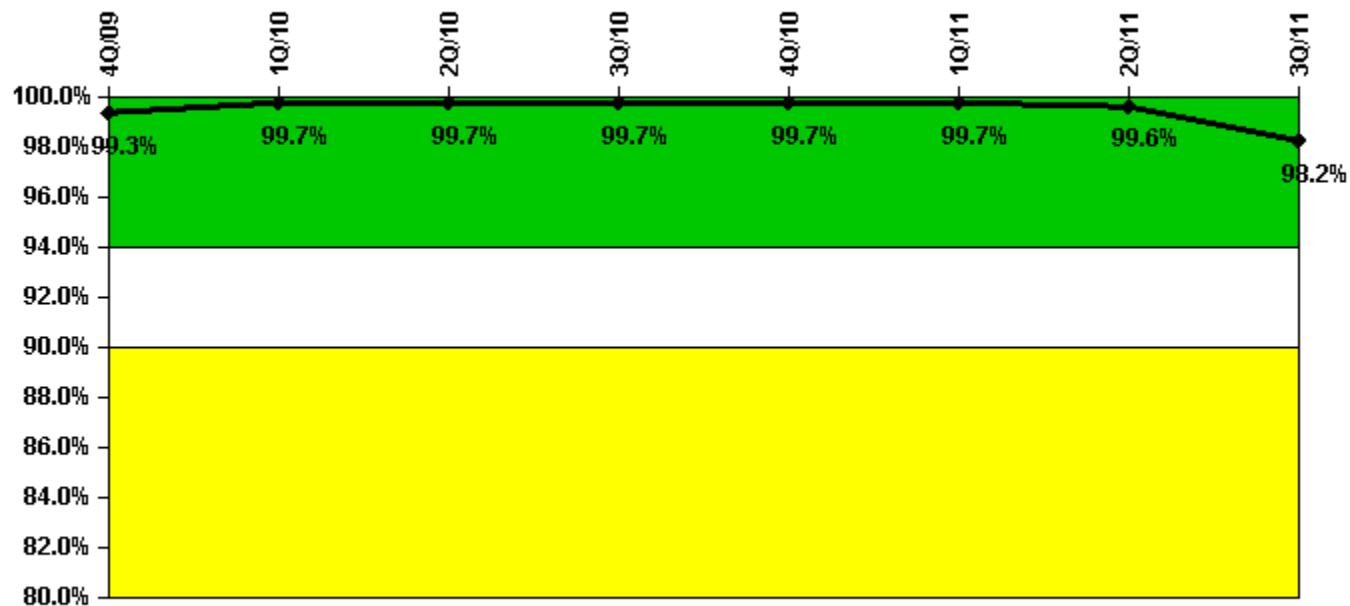
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Participating Key personnel	95.0	98.0	87.0	86.0	88.0	85.0	88.0	83.0
Total Key personnel	95.0	98.0	87.0	86.0	88.0	85.0	88.0	83.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



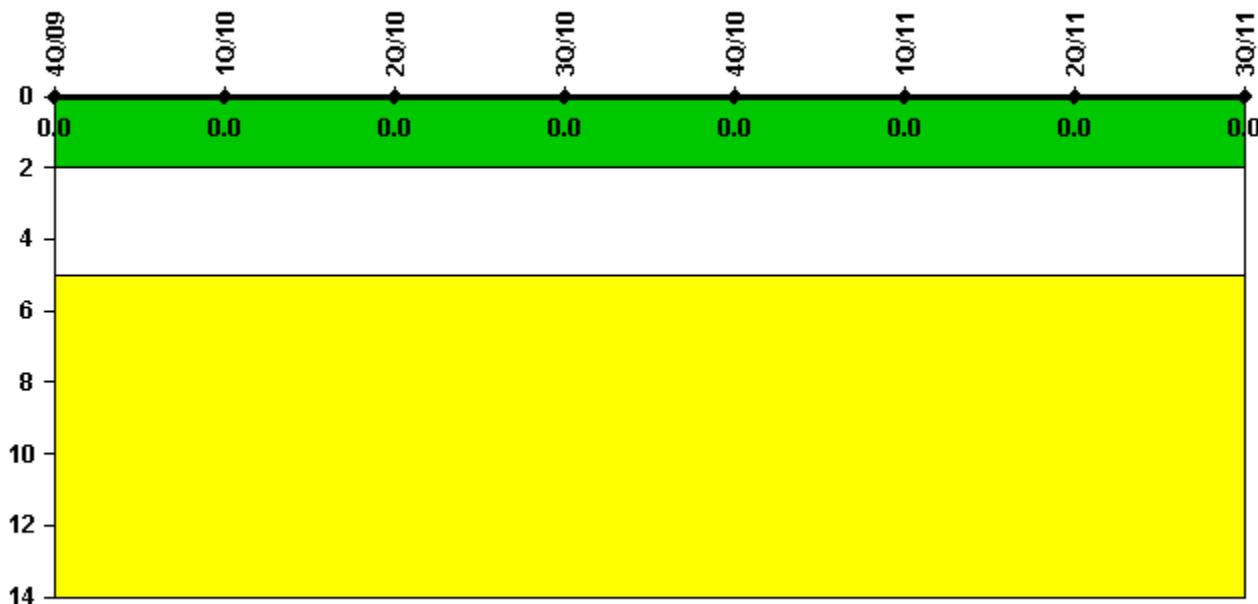
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful siren-tests	942	948	948	948	940	949	945	892
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.3%	99.7%	99.7%	99.7%	99.7%	99.7%	99.6%	98.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness



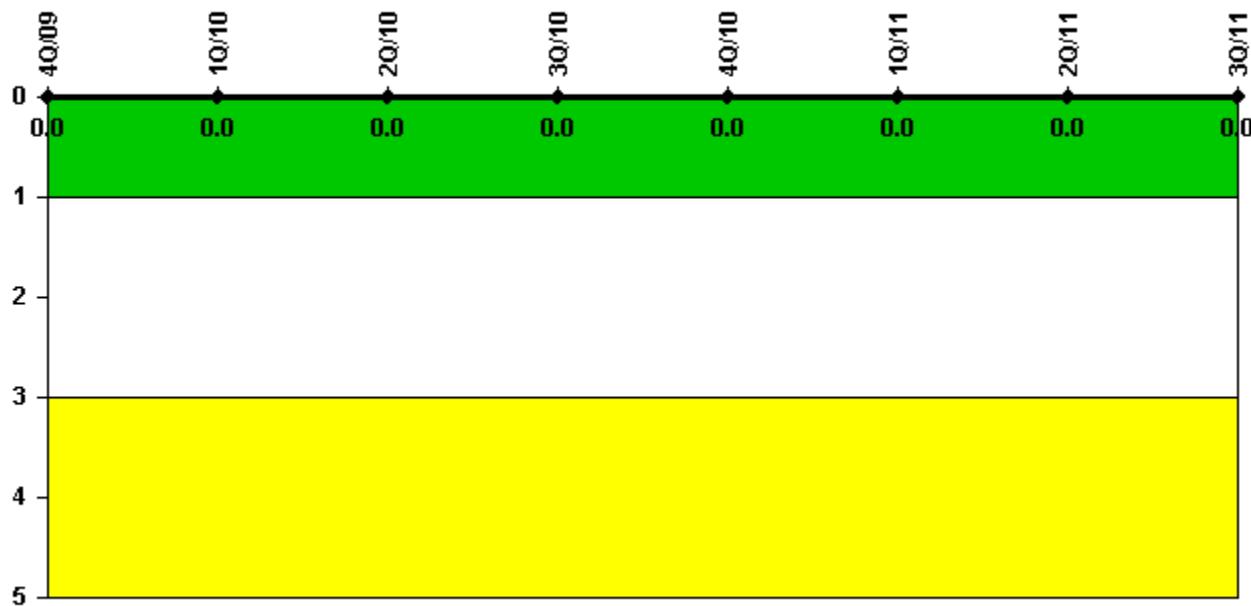
Thresholds: White > 2.0 Yellow > 5.0

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

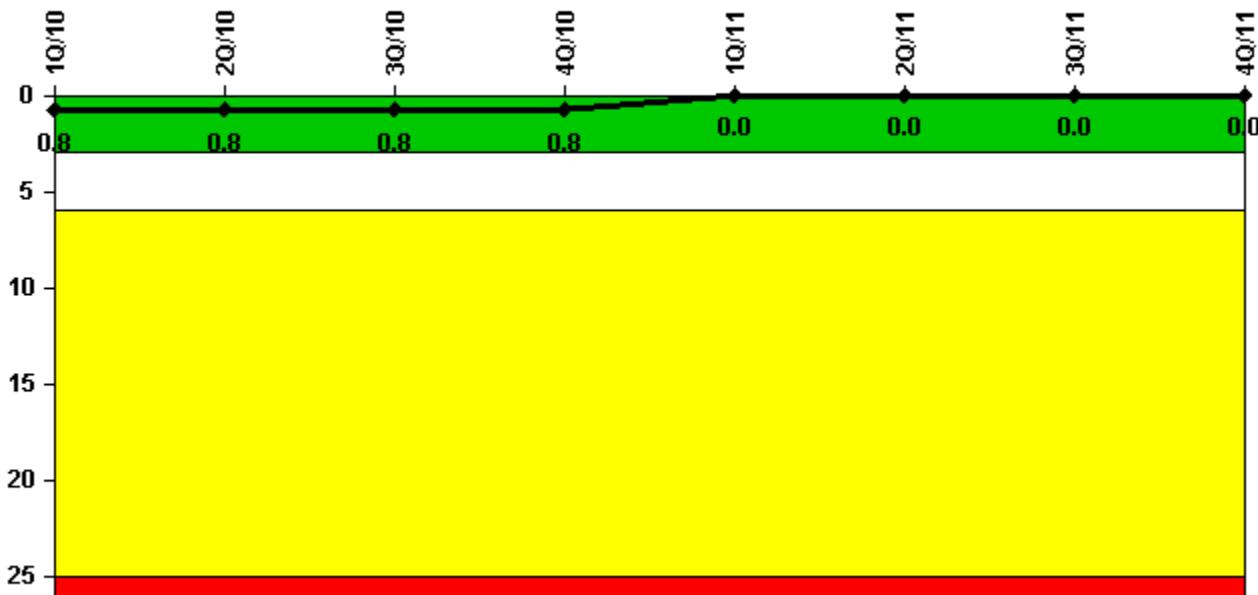
[Security](#) information not publicly available.

Calvert Cliffs 2

4Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



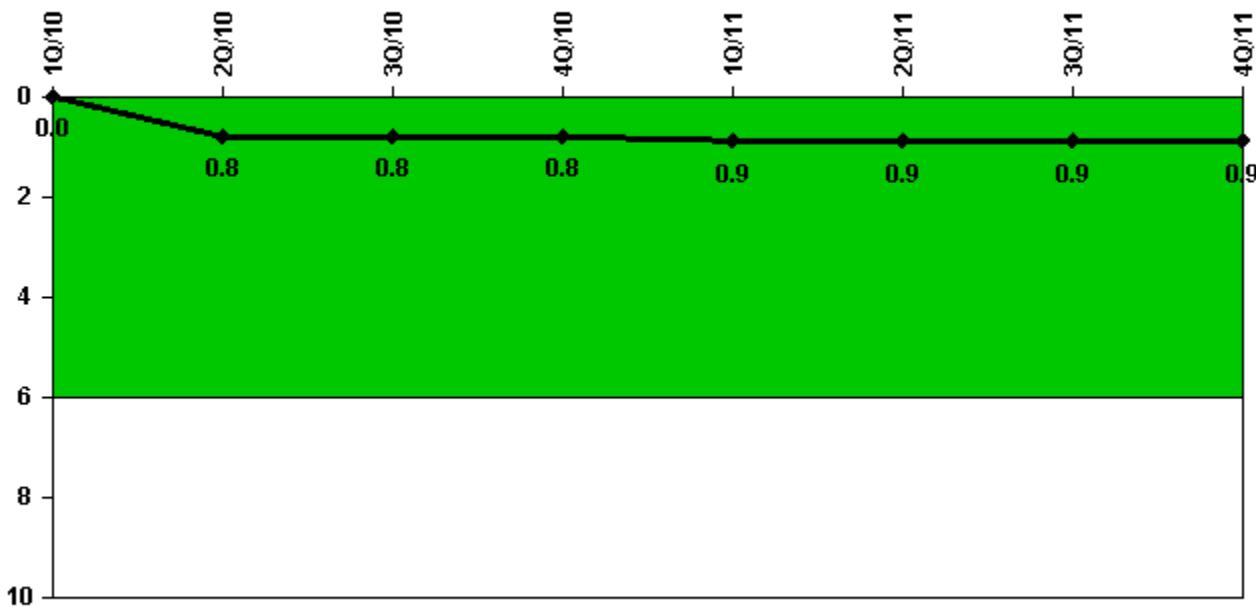
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	0	0	0	0
Critical hours	1941.7	2184.0	2208.0	2209.0	1475.6	2184.0	2208.0	2209.0
Indicator value	0.8	0.8	0.8	0.8	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



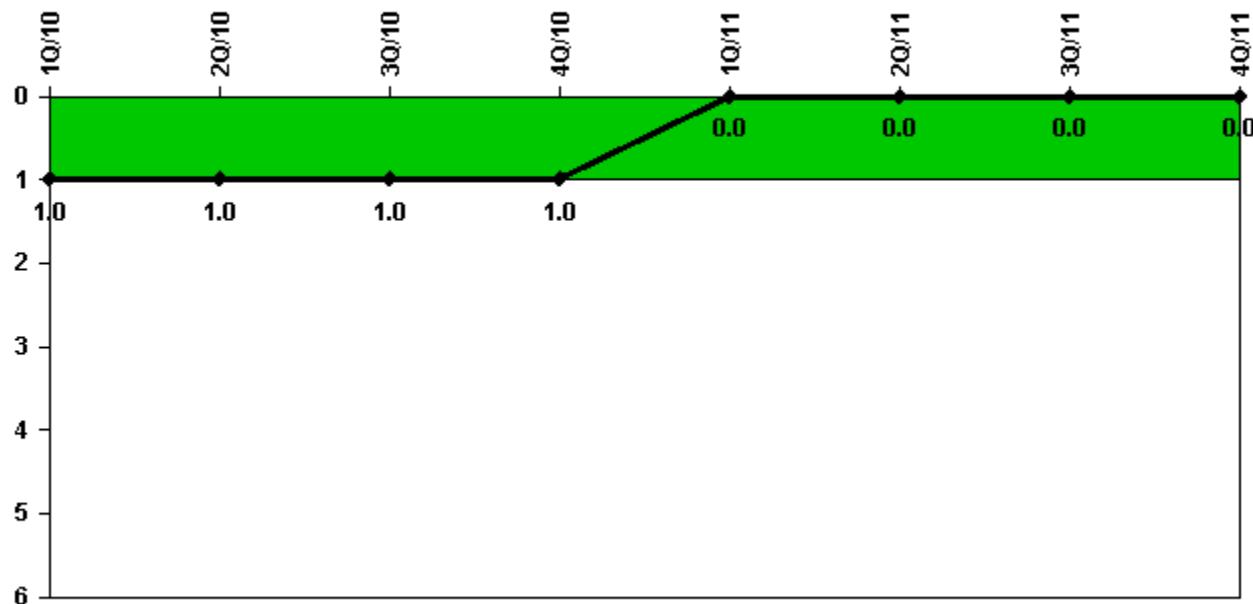
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned power changes	0	1.0	0	0	0	1.0	0	0
Critical hours	1941.7	2184.0	2208.0	2209.0	1475.6	2184.0	2208.0	2209.0
Indicator value	0	0.8	0.8	0.8	0.9	0.9	0.9	0.9

Licensee Comments: none

Unplanned Scrams with Complications



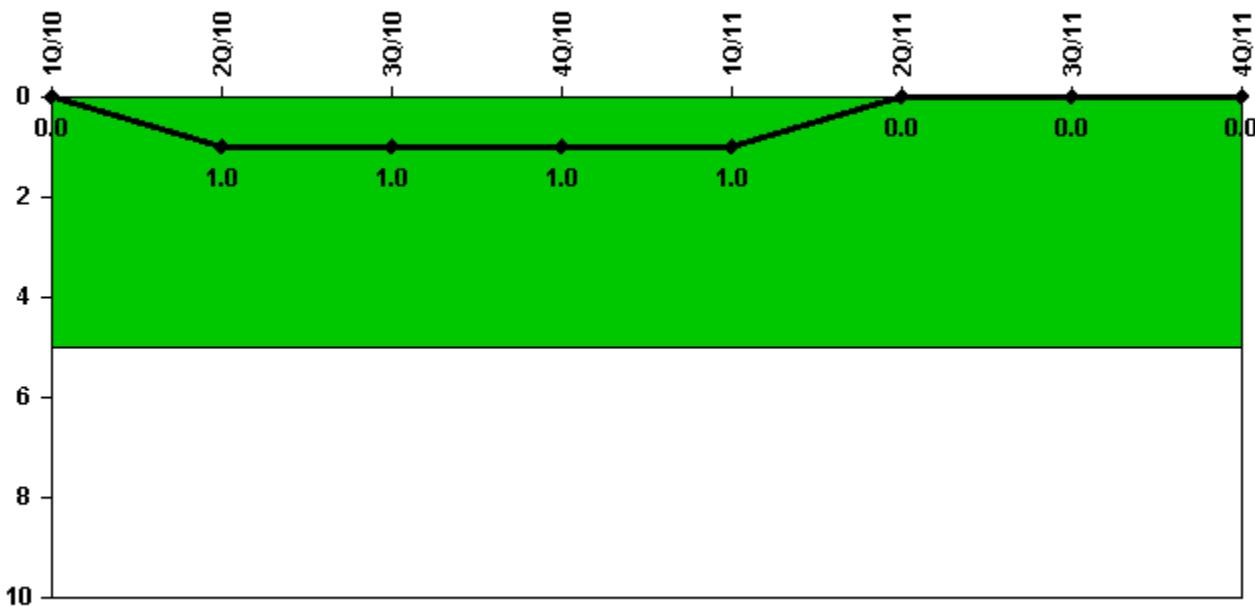
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Scrams with complications	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)



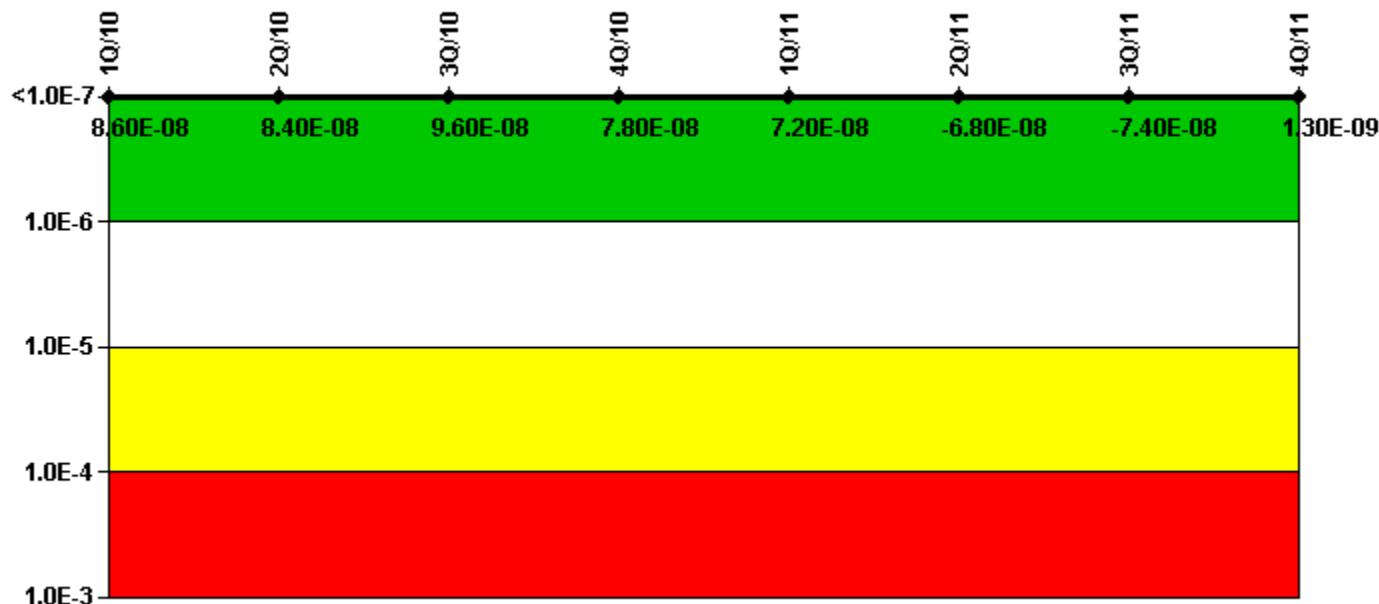
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Safety System Functional Failures	0	1	0	0	0	0	0	0
Indicator value	0	1	1	1	1	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



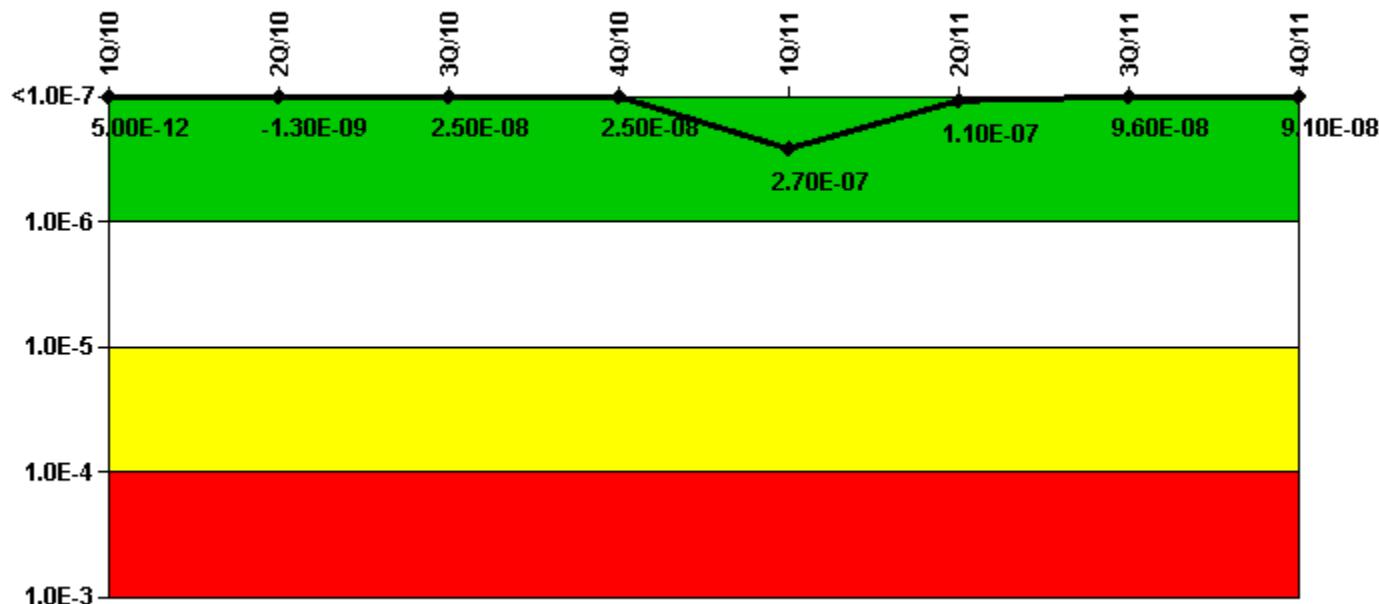
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	1.00E-07	9.77E-08	1.11E-07	9.08E-08	8.65E-08	2.82E-09	-4.23E-09	8.01E-08
URI (Δ CDF)	-1.46E-08	-1.40E-08	-1.45E-08	-1.29E-08	-1.42E-08	-7.07E-08	-6.94E-08	-7.88E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.60E-08	8.40E-08	9.60E-08	7.80E-08	7.20E-08	-6.80E-08	-7.40E-08	1.30E-09

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



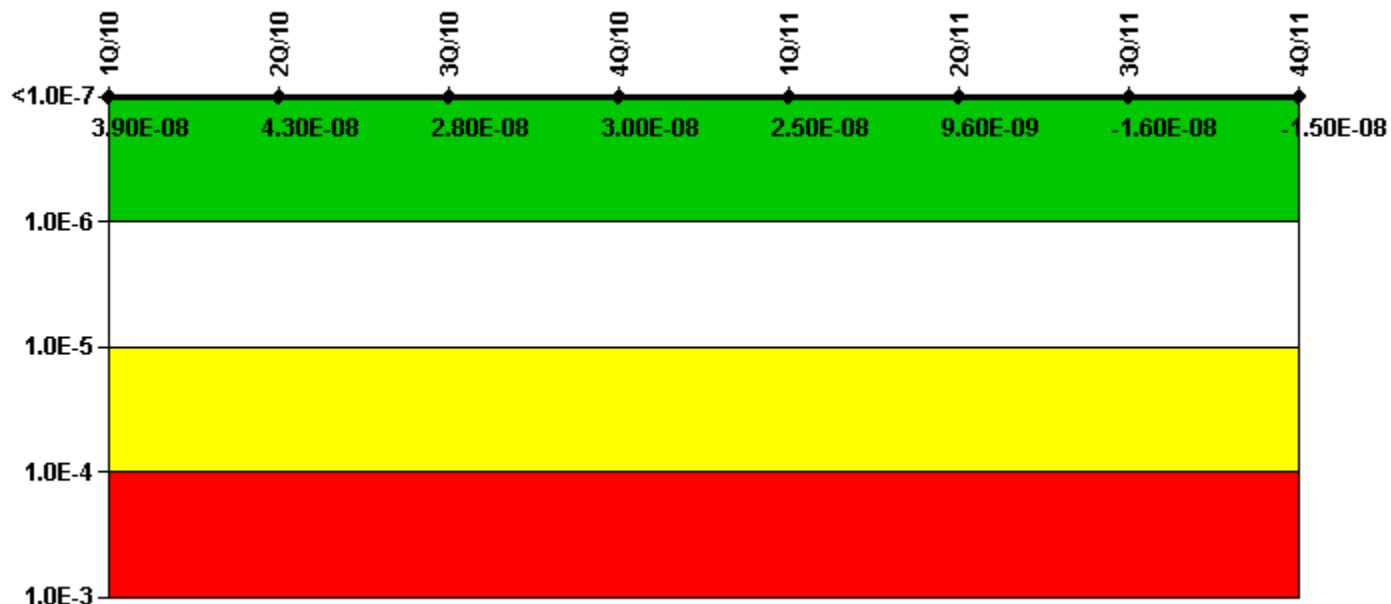
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	6.40E-08	6.19E-08	8.72E-08	8.65E-08	1.33E-07	1.64E-08	5.59E-09	-8.25E-10
URI (Δ CDF)	-6.40E-08	-6.31E-08	-6.18E-08	-6.16E-08	1.33E-07	9.42E-08	9.06E-08	9.14E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.00E-12	-1.30E-09	2.50E-08	2.50E-08	2.70E-07	1.10E-07	9.60E-08	9.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



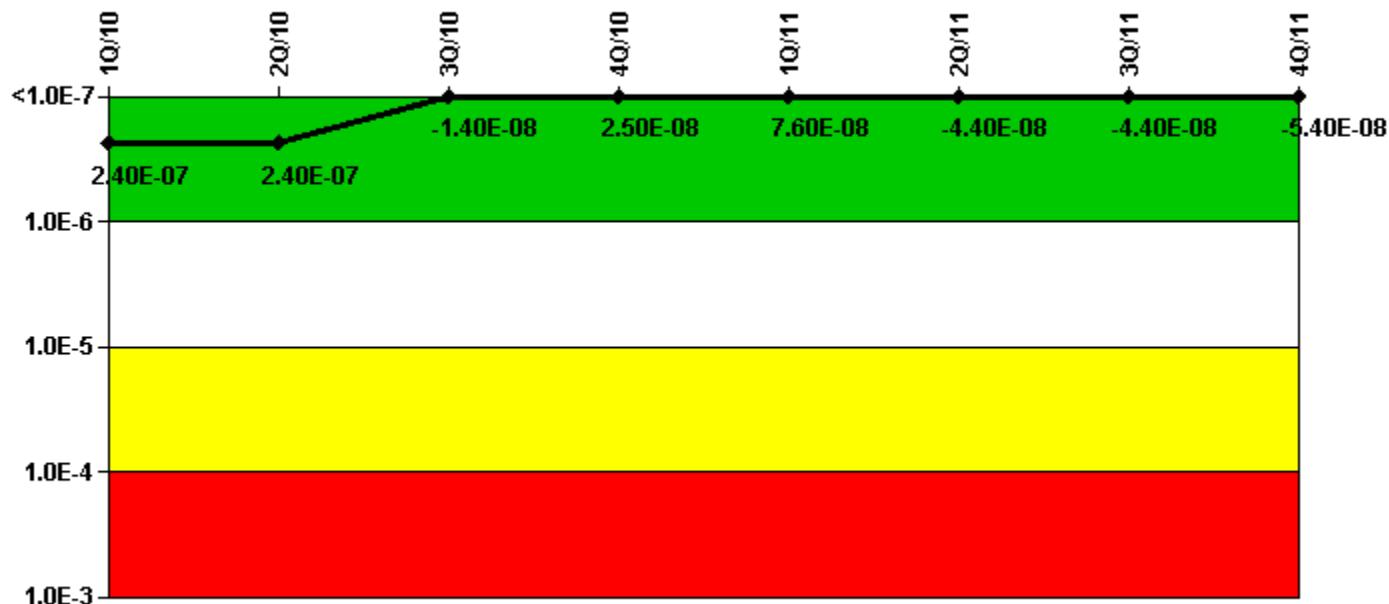
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	1.31E-08	1.24E-08	-6.25E-09	-6.61E-09	-4.83E-09	-2.80E-09	-2.77E-09	-2.06E-09
URI (Δ CDF)	2.54E-08	3.06E-08	3.41E-08	3.62E-08	3.00E-08	1.24E-08	-1.28E-08	-1.26E-08
PLE	NO	NO						
Indicator value	3.90E-08	4.30E-08	2.80E-08	3.00E-08	2.50E-08	9.60E-09	-1.60E-08	-1.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



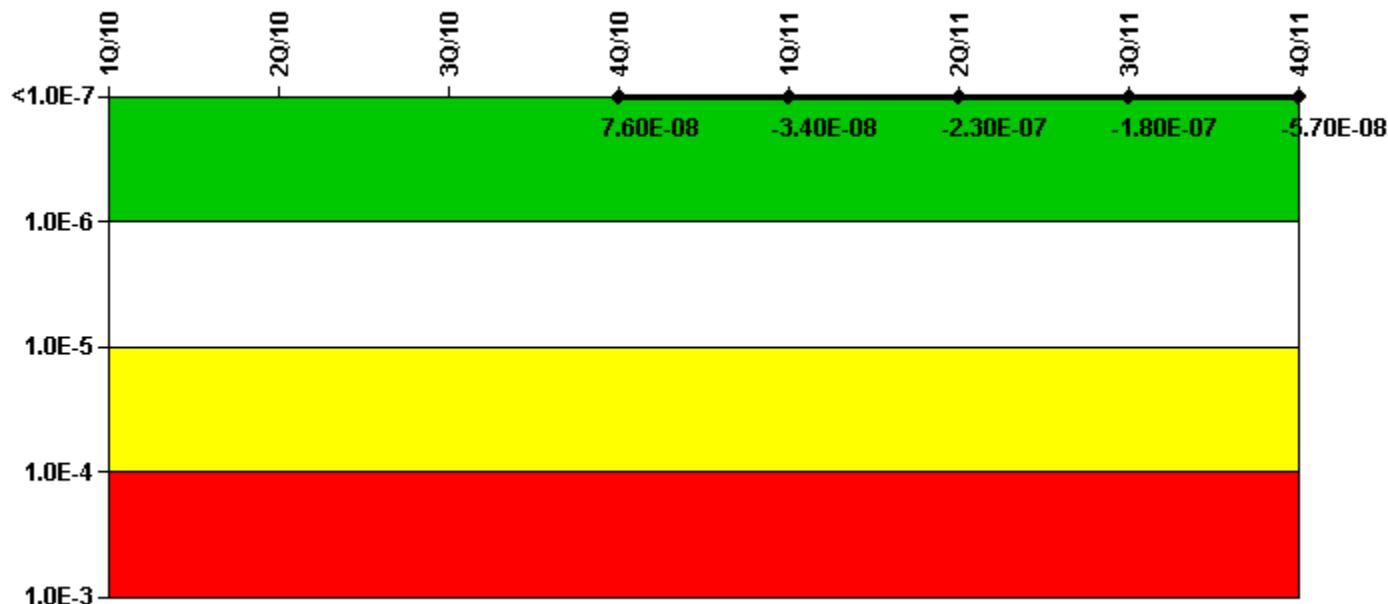
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	2.25E-07	2.23E-07	-1.86E-08	2.06E-08	7.31E-08	-4.54E-08	-4.51E-08	-5.46E-08
URI (Δ CDF)	1.34E-08	1.39E-08	4.19E-09	4.10E-09	2.91E-09	9.15E-10	6.91E-10	4.25E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.40E-07	2.40E-07	-1.40E-08	2.50E-08	7.60E-08	-4.40E-08	-4.40E-08	-5.40E-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)	5.72E-08	5.85E-08	6.56E-08	9.20E-08	9.29E-08	7.52E-09	5.79E-08	1.81E-07
URI (Δ CDF)					-1.56E-08	-1.27E-07	-2.35E-07	-2.39E-07
PLE	N/A	N/A	N/A	NO	NO	NO	NO	NO
Indicator value					7.60E-08	-3.40E-08	-2.30E-07	-1.80E-07
								-5.70E-08

Licensee Comments:

4Q/11: Two CWS2 AOVs added due to current inability to validate their exclusion during the original MSPI scoping. CR-2011-008863

2Q/11: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization. 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

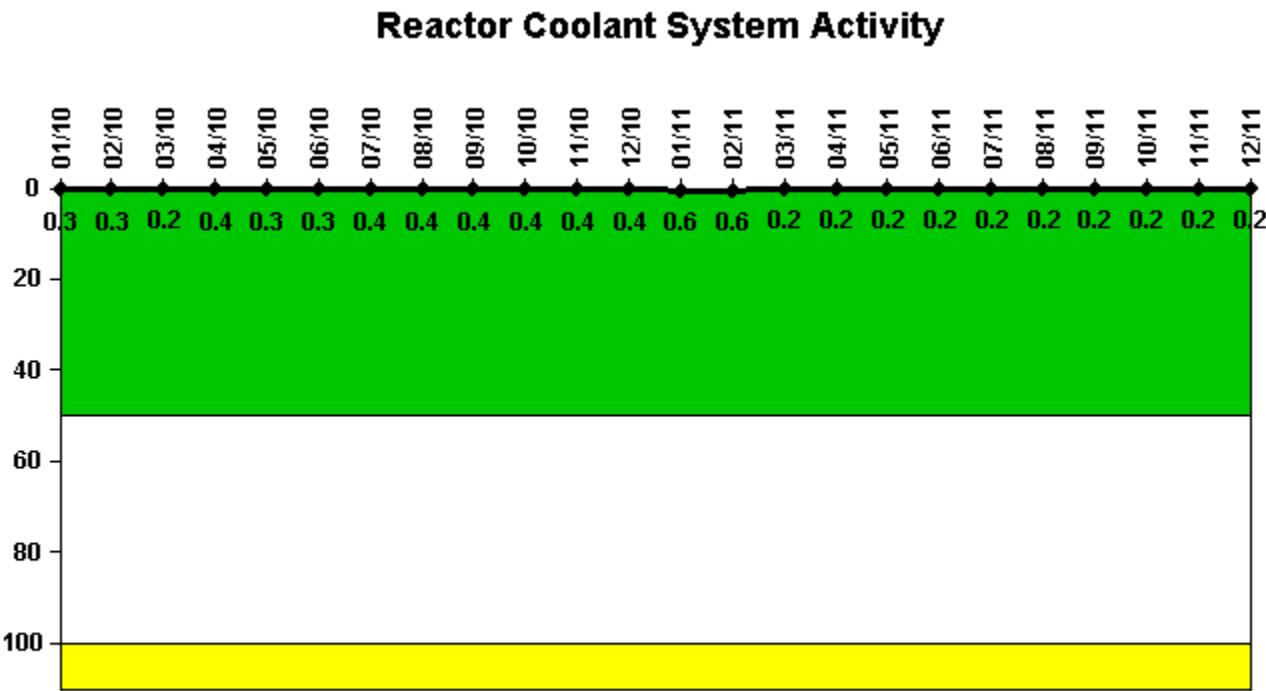
4Q/10: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

3Q/10: 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

4Q/08: Change report due to Failure Report 1241 entered in EPIX on 12/18/2008 when the failure date was 9/12/2008. No indicator color change results from this change.

3Q/08: Change report due to Failure Report 1241 entered in EPIX on 12/18/2008 when the failure date was 9/12/2008. No indicator color change results from this change.

1Q/08: Failure of 2CV5206 occurred late in 1st Q2008. Subsequent apparent cause evaluation determined that failure impacted MSPI function. Determination occurred just after 1st quarter data submittal. Impact of this failure did not change indicator color (green).

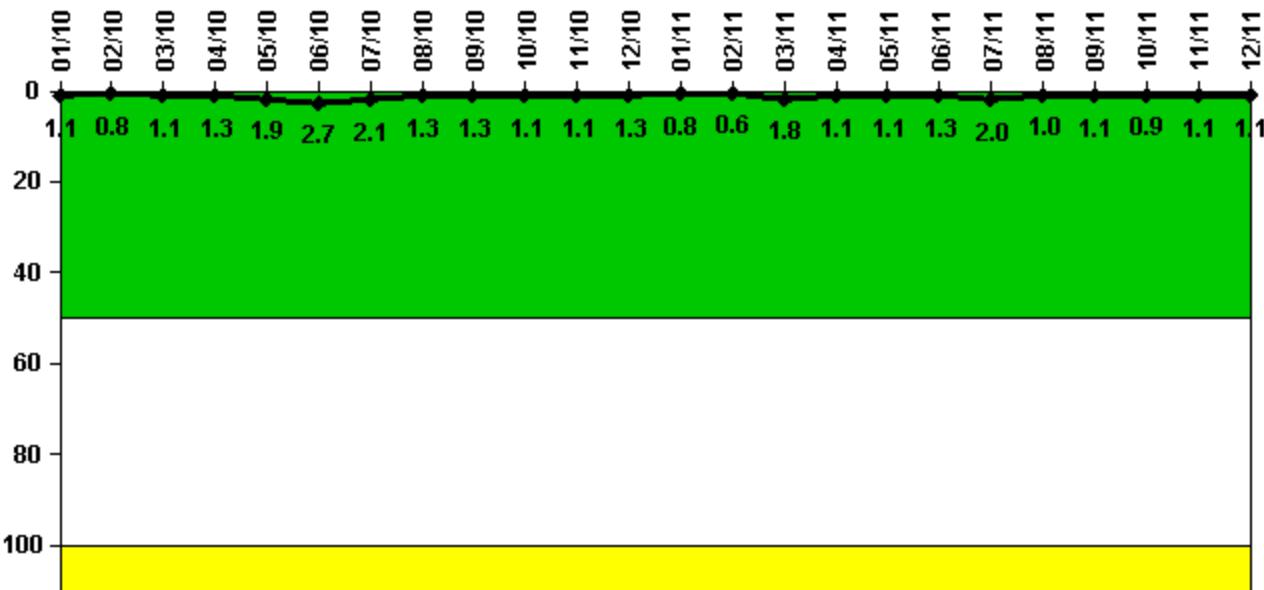


Thresholds: White > 50.0 Yellow > 100.0

Notes

Licensee Comments: none

Reactor Coolant System Leakage



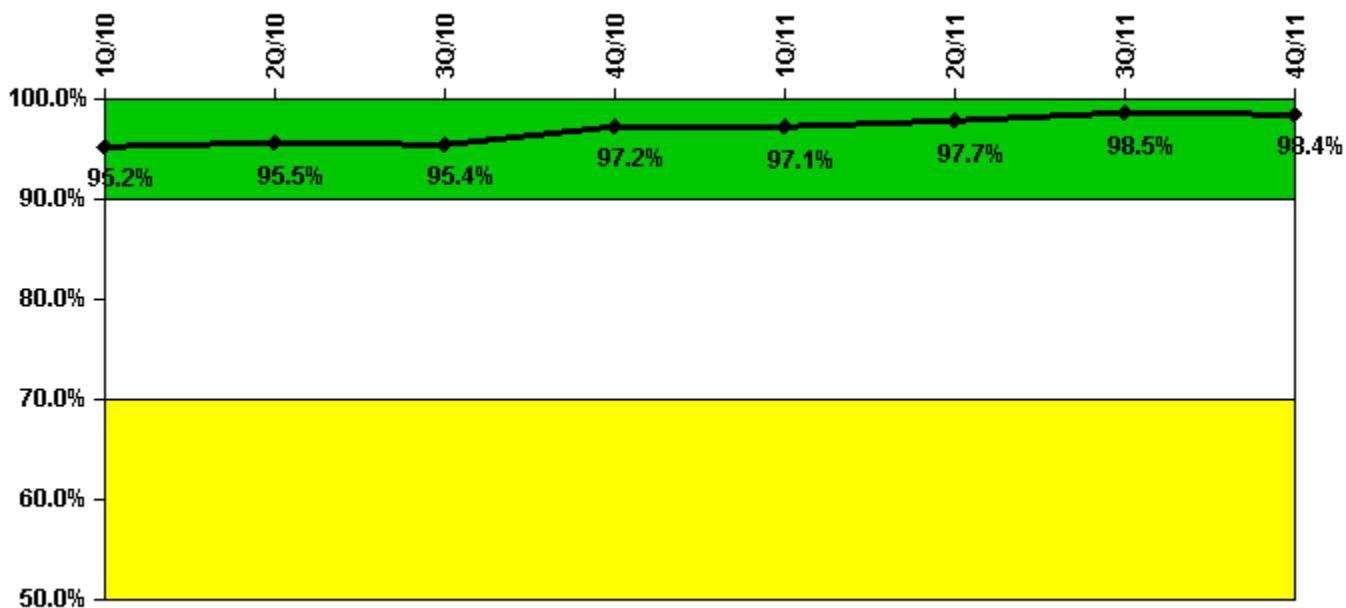
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.110	0.080	0.110	0.134	0.190	0.270	0.210	0.130	0.130	0.110	0.110	0.130
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	1.1	0.8	1.1	1.3	1.9	2.7	2.1	1.3	1.3	1.1	1.1	1.3
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	0.080	0.060	0.180	0.110	0.110	0.130	0.200	0.100	0.110	0.090	0.110	0.110
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	0.8	0.6	1.8	1.1	1.1	1.3	2.0	1.0	1.1	0.9	1.1	1.1

Licensee Comments: none

Drill/Exercise Performance



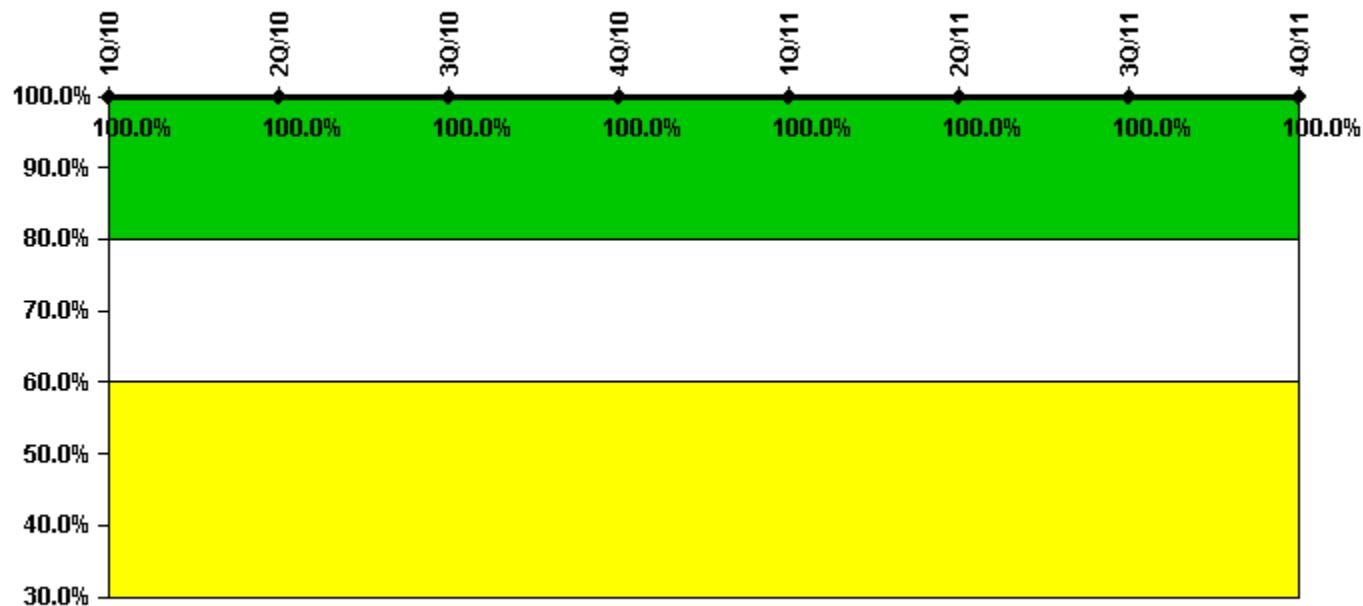
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful opportunities	13.0	23.0	76.0	53.0	4.0	58.0	30.0	56.0
Total opportunities	13.0	23.0	78.0	54.0	4.0	59.0	30.0	57.0
Indicator value	95.2%	95.5%	95.4%	97.2%	97.1%	97.7%	98.5%	98.4%

Licensee Comments: none

ERO Drill Participation



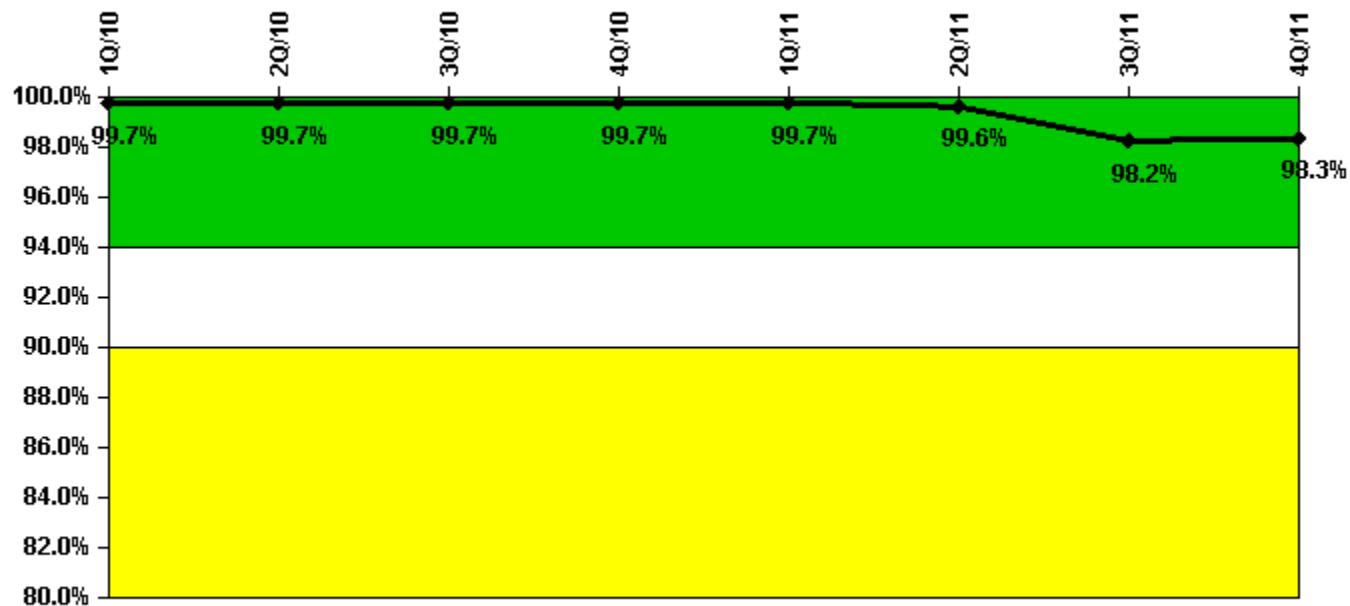
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Participating Key personnel	98.0	87.0	86.0	88.0	85.0	88.0	83.0	84.0
Total Key personnel	98.0	87.0	86.0	88.0	85.0	88.0	83.0	84.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



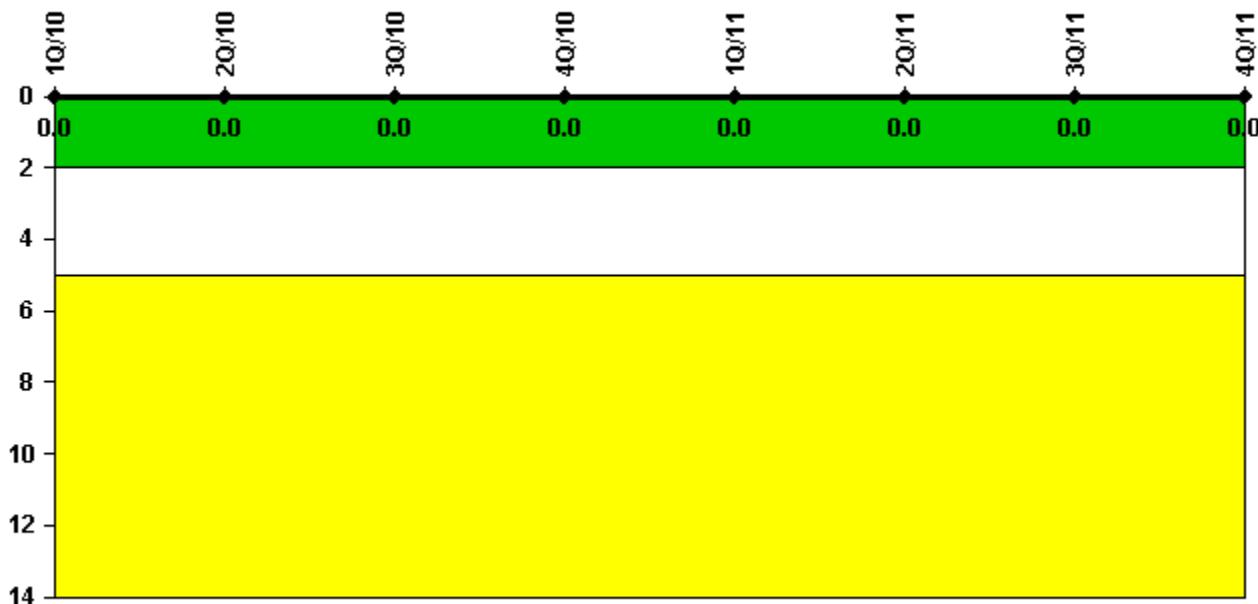
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful siren-tests	948	948	948	940	949	945	892	946
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.7%	99.7%	99.7%	99.7%	99.7%	99.6%	98.2%	98.3%

Licensee Comments: none

Occupational Exposure Control Effectiveness



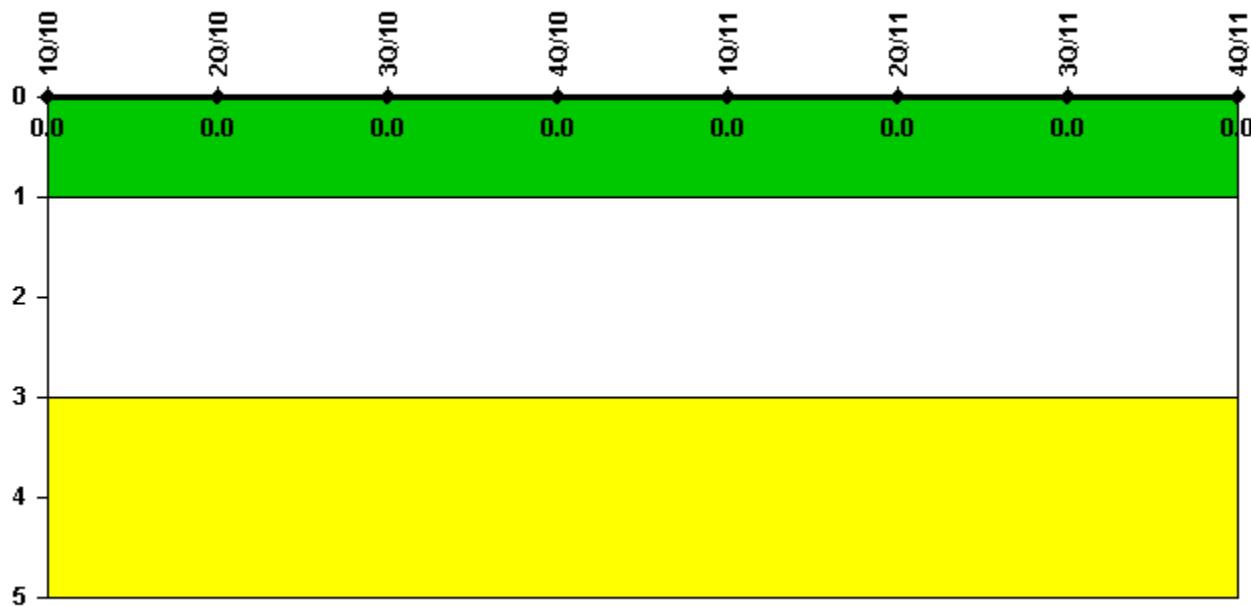
Thresholds: White > 2.0 Yellow > 5.0

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.



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

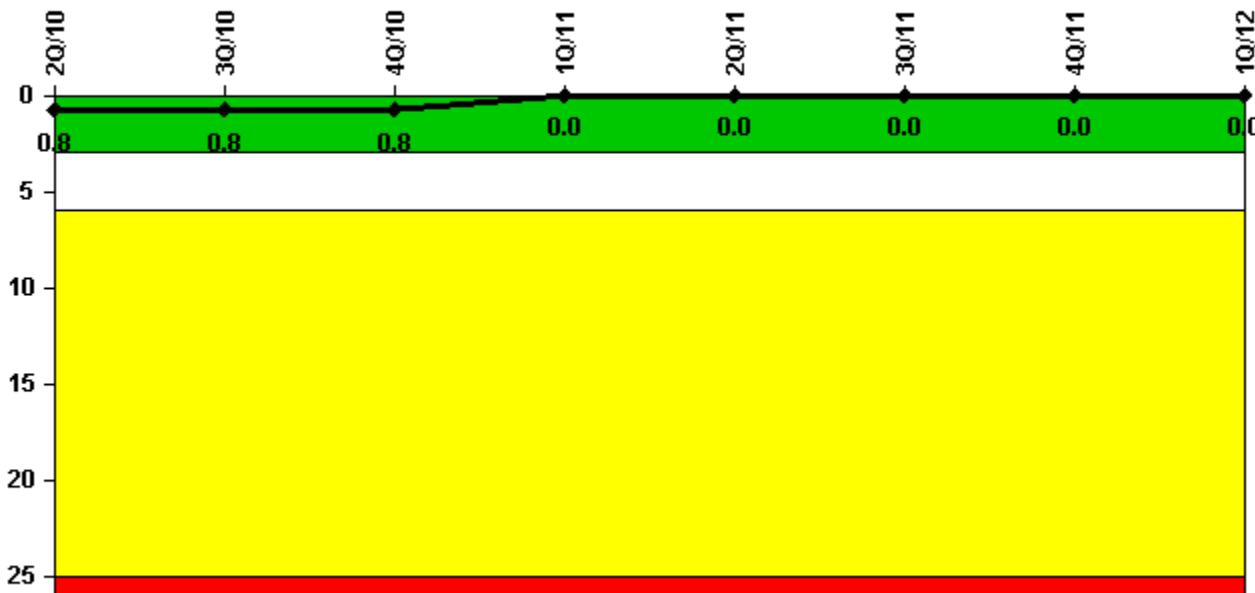
Last Modified: February 2, 2012

Calvert Cliffs 2

1Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



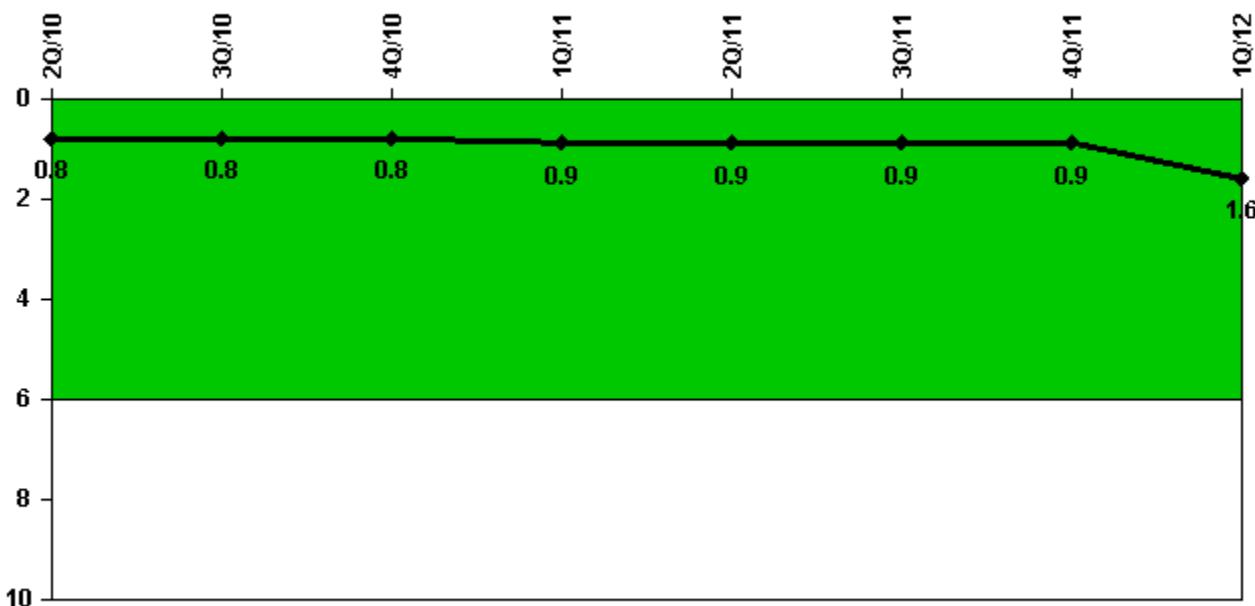
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	2209.0	1475.6	2184.0	2208.0	2209.0	2183.0
Indicator value	0.8	0.8	0.8	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



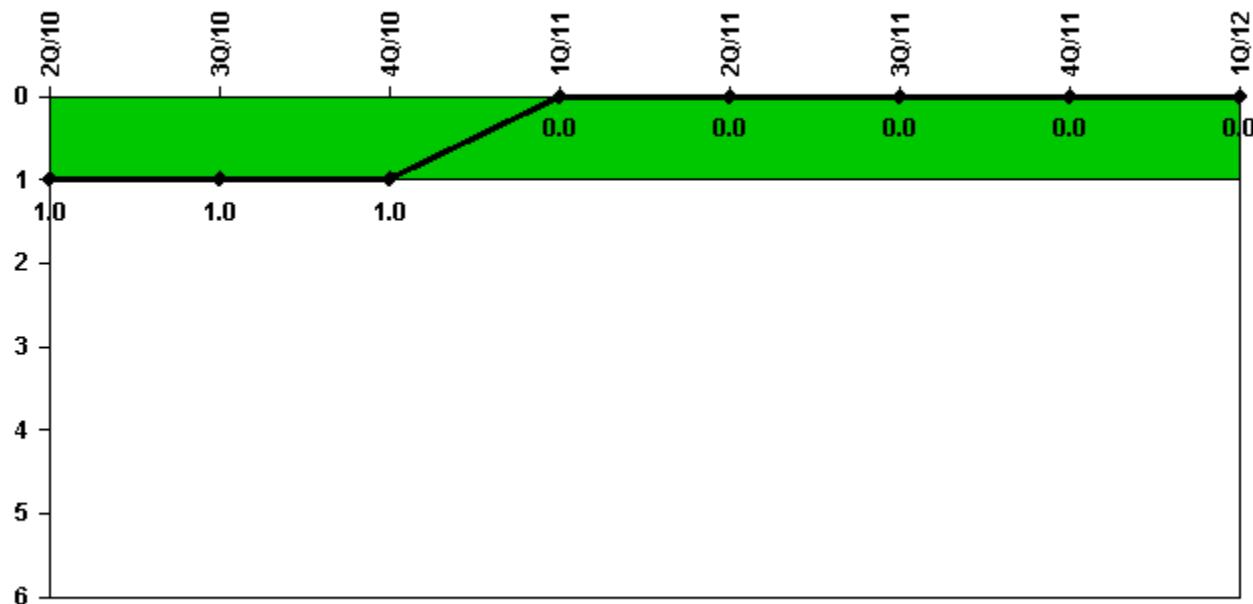
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	1.0	0	0	0	1.0	0	0	1.0
Critical hours	2184.0	2208.0	2209.0	1475.6	2184.0	2208.0	2209.0	2183.0
Indicator value	0.8	0.8	0.8	0.9	0.9	0.9	0.9	1.6

Licensee Comments: none

Unplanned Scrams with Complications



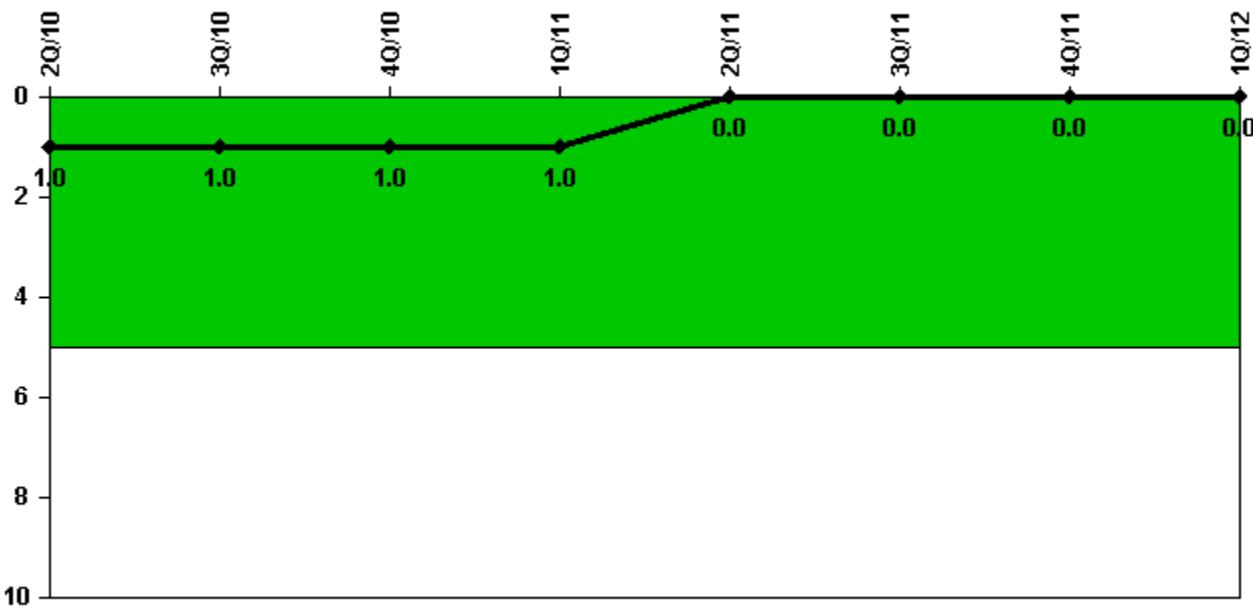
Thresholds: White > 1.0

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	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



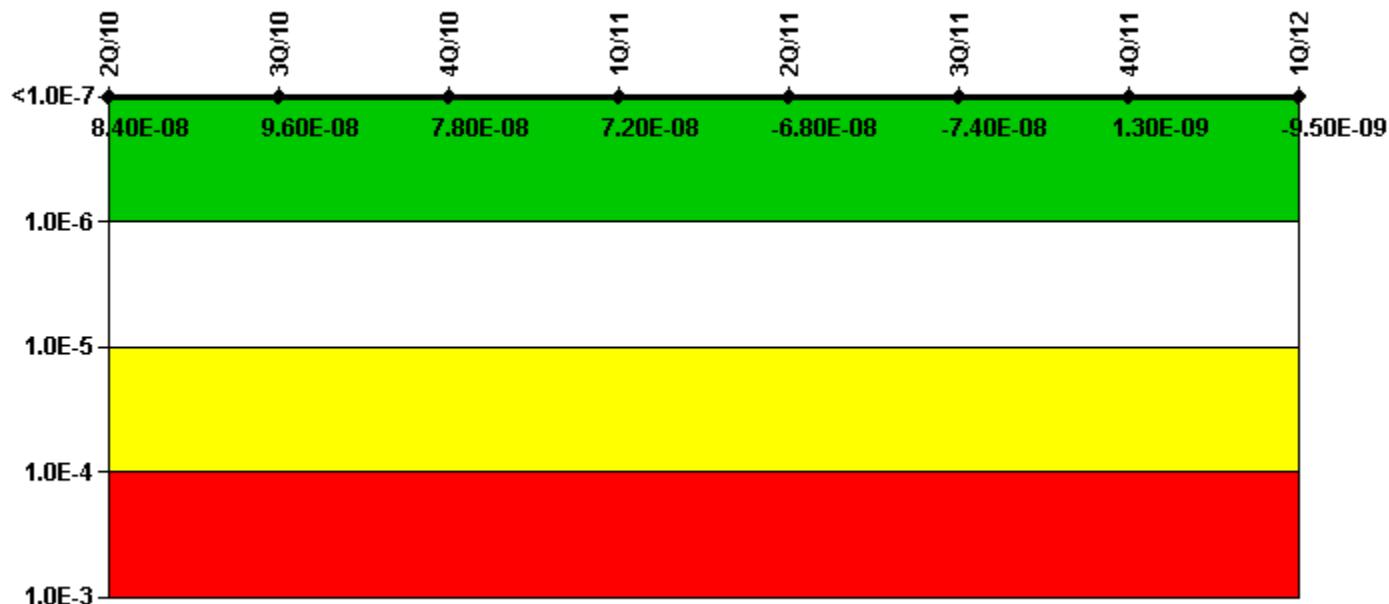
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
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

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

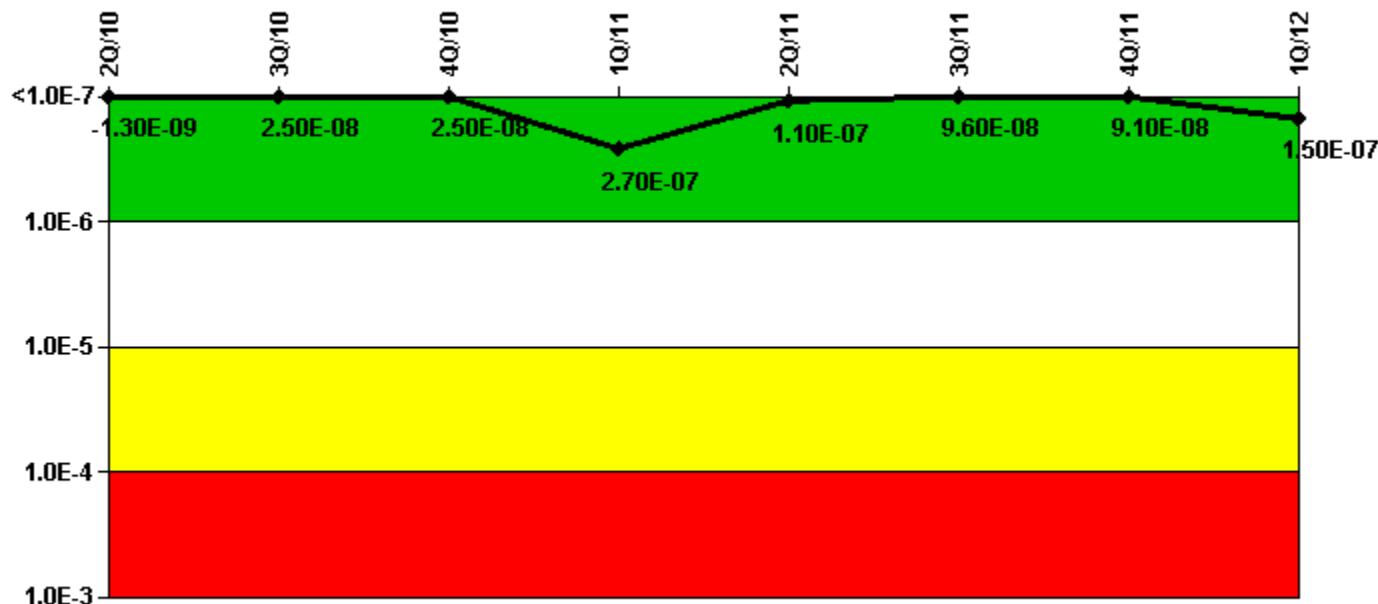
Mitigating Systems Performance Index, Emergency AC Power System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	9.77E-08	1.11E-07	9.08E-08	8.65E-08	2.82E-09	-4.23E-09	8.01E-08	6.53E-08
URI (Δ CDF)	-1.40E-08	-1.45E-08	-1.29E-08	-1.42E-08	-7.07E-08	-6.94E-08	-7.88E-08	-7.48E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.40E-08	9.60E-08	7.80E-08	7.20E-08	-6.80E-08	-7.40E-08	1.30E-09	-9.50E-09

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

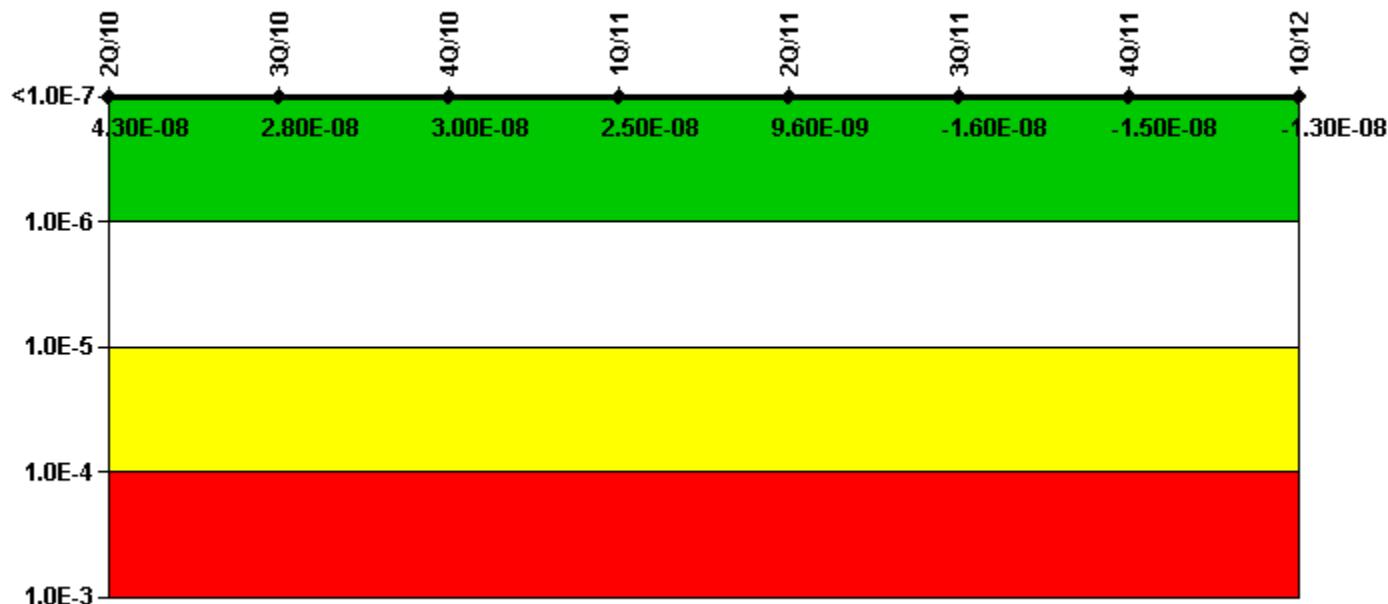
Mitigating Systems Performance Index, High Pressure Injection System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	6.19E-08	8.72E-08	8.65E-08	1.33E-07	1.64E-08	5.59E-09	-8.25E-10	4.27E-08
URI (Δ CDF)	-6.31E-08	-6.18E-08	-6.16E-08	1.33E-07	9.42E-08	9.06E-08	9.14E-08	1.09E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-09	2.50E-08	2.50E-08	2.70E-07	1.10E-07	9.60E-08	9.10E-08	1.50E-07

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

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)	1.24E-08	-6.25E-09	-6.61E-09	-4.83E-09	-2.80E-09	-2.77E-09	-2.06E-09	-2.46E-09
URI (Δ CDF)	3.06E-08	3.41E-08	3.62E-08	3.00E-08	1.24E-08	-1.28E-08	-1.26E-08	-1.06E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.30E-08	2.80E-08	3.00E-08	2.50E-08	9.60E-09	-1.60E-08	-1.50E-08	-1.30E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

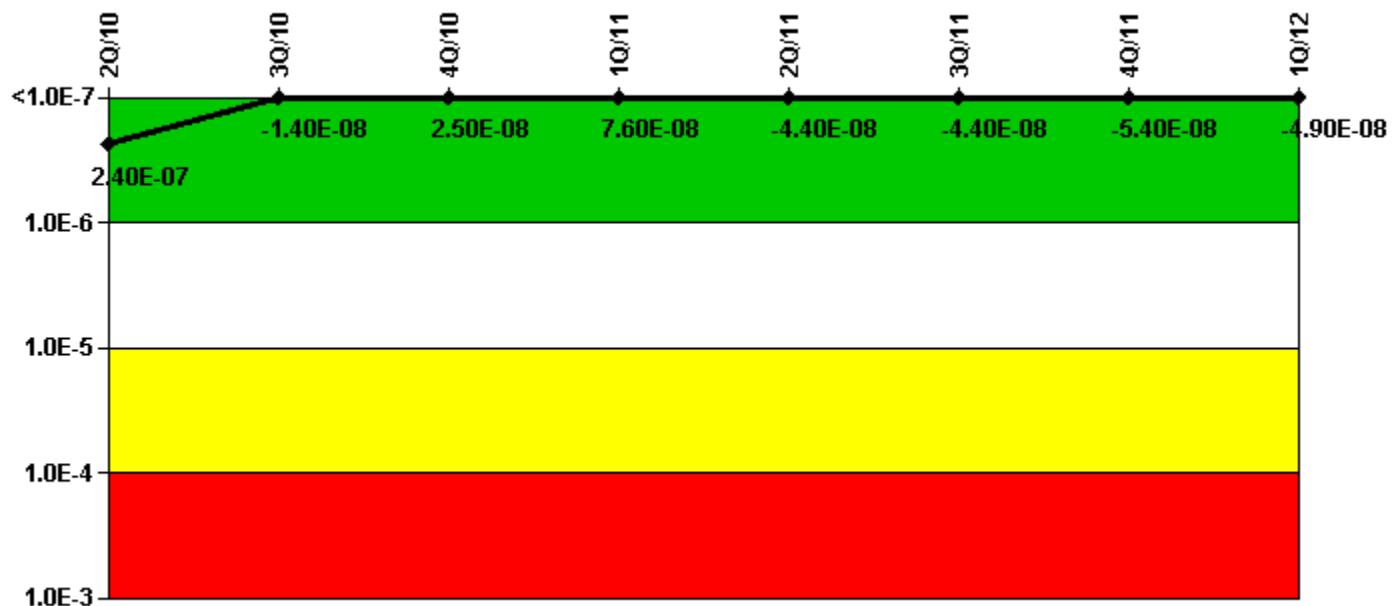
1Q/11: Changed PRA Parameter(s). Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

4Q/10: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

3Q/10: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

2Q/10: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

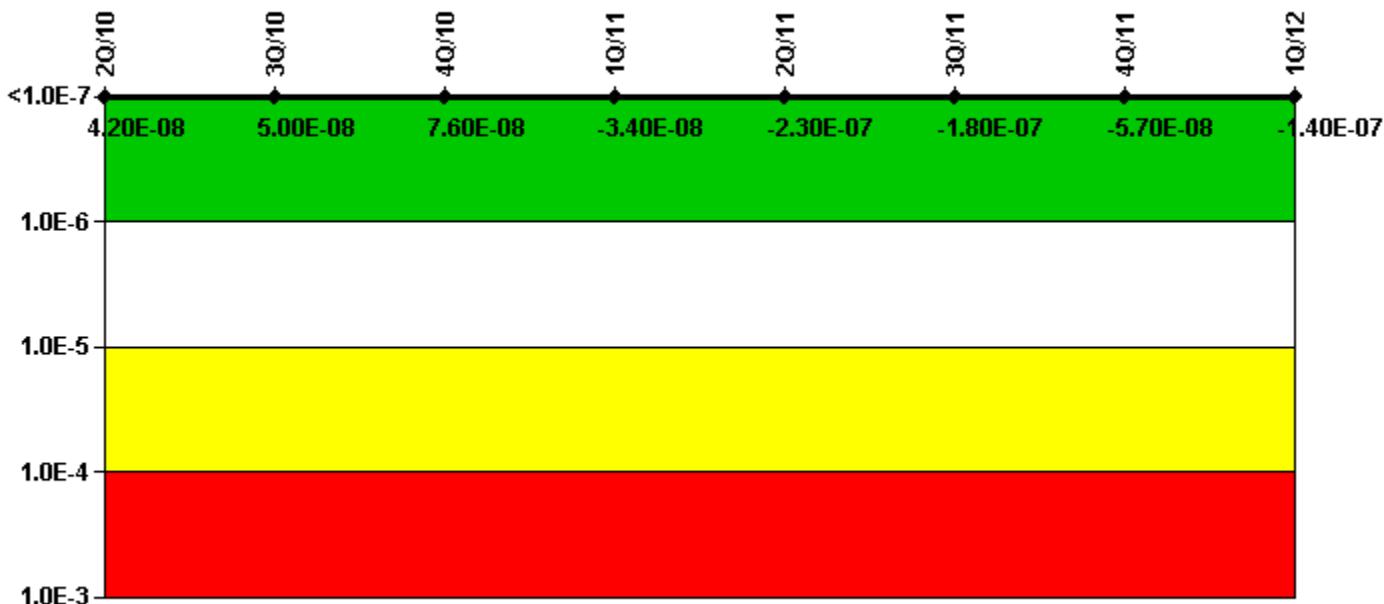
Mitigating Systems Performance Index, Residual Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	2.23E-07	-1.86E-08	2.06E-08	7.31E-08	-4.54E-08	-4.51E-08	-5.46E-08	-4.43E-08
URI (Δ CDF)	1.39E-08	4.19E-09	4.10E-09	2.91E-09	9.15E-10	6.91E-10	4.25E-10	-4.61E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.40E-07	-1.40E-08	2.50E-08	7.60E-08	-4.40E-08	-4.40E-08	-5.40E-08	-4.90E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

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)	5.85E-08	6.56E-08	9.20E-08	9.29E-08	7.52E-09	5.79E-08	1.81E-07	9.35E-08
URI (Δ CDF)	-1.60E-08	-1.59E-08	-1.56E-08	-1.27E-07	-2.35E-07	-2.39E-07	-2.39E-07	-2.38E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.20E-08	5.00E-08	7.60E-08	-3.40E-08	-2.30E-07	-1.80E-07	-5.70E-08	-1.40E-07

Licensee Comments:

4Q/11: Two CWS2 AOVs added due to current inability to validate their exclusion during the original MSPI scoping. CR-2011-008863

2Q/11: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

2Q/11: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization. 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization. 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

4Q/10: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

4Q/10: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

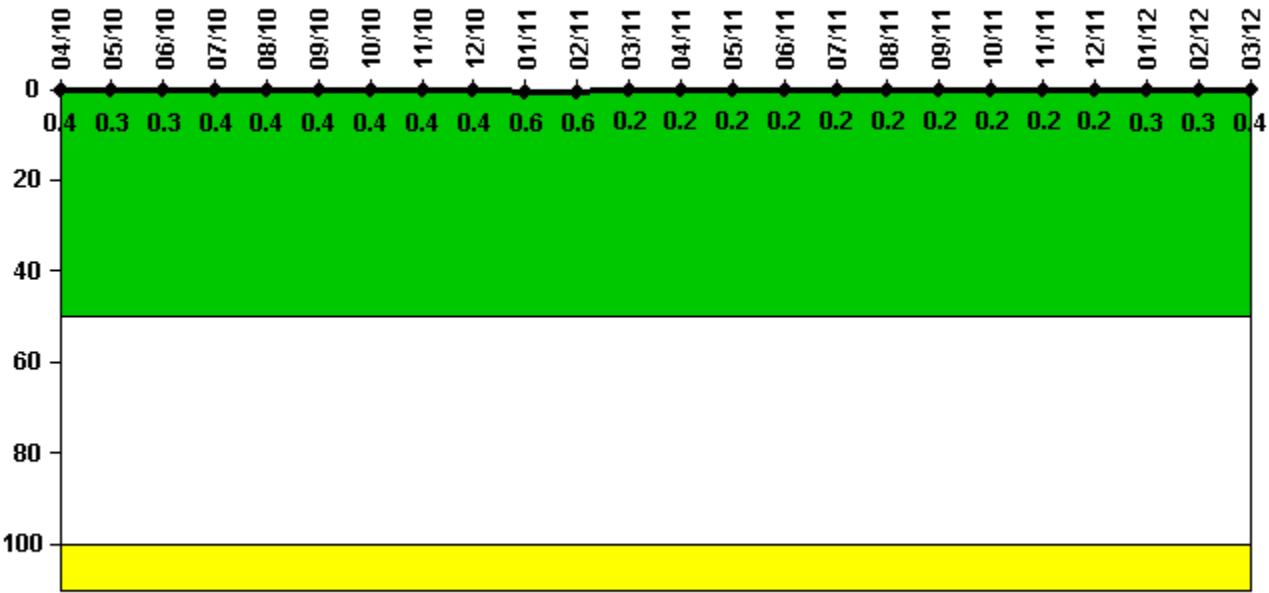
3Q/10: 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

3Q/10: 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850). 4-11-12: Two CWS2 AOVs added due to current inability to validate their exclusion during the original MSPI scoping.

3Q/10: 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

2Q/10: 4-11-12: Two CWS2 AOVs added due to current inability to validate their exclusion during the original MSPI scoping.

Reactor Coolant System Activity



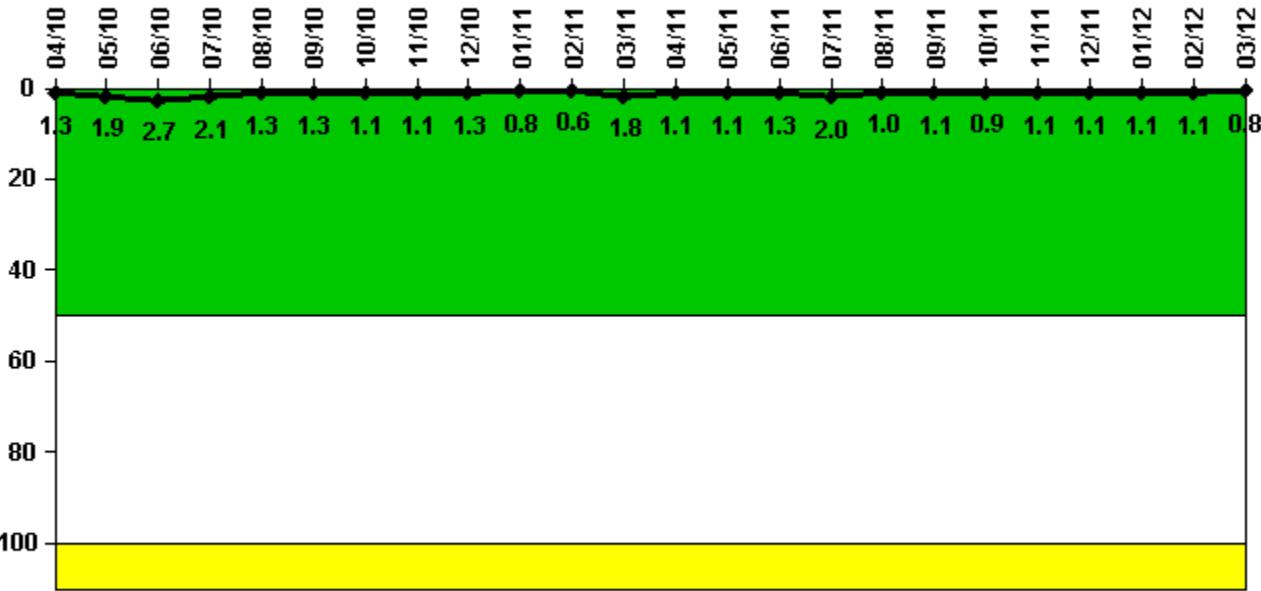
Thresholds: White > 50.0 Yellow > 100.0

Notes

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	0.000863	0.000877	0.000842	0.000878	0.000956	0.001090	0.001170	0.001080	0.001240	0.001270	0.001420	0.001770
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.2	0.3	0.4									

Licensee Comments: none

Reactor Coolant System Leakage



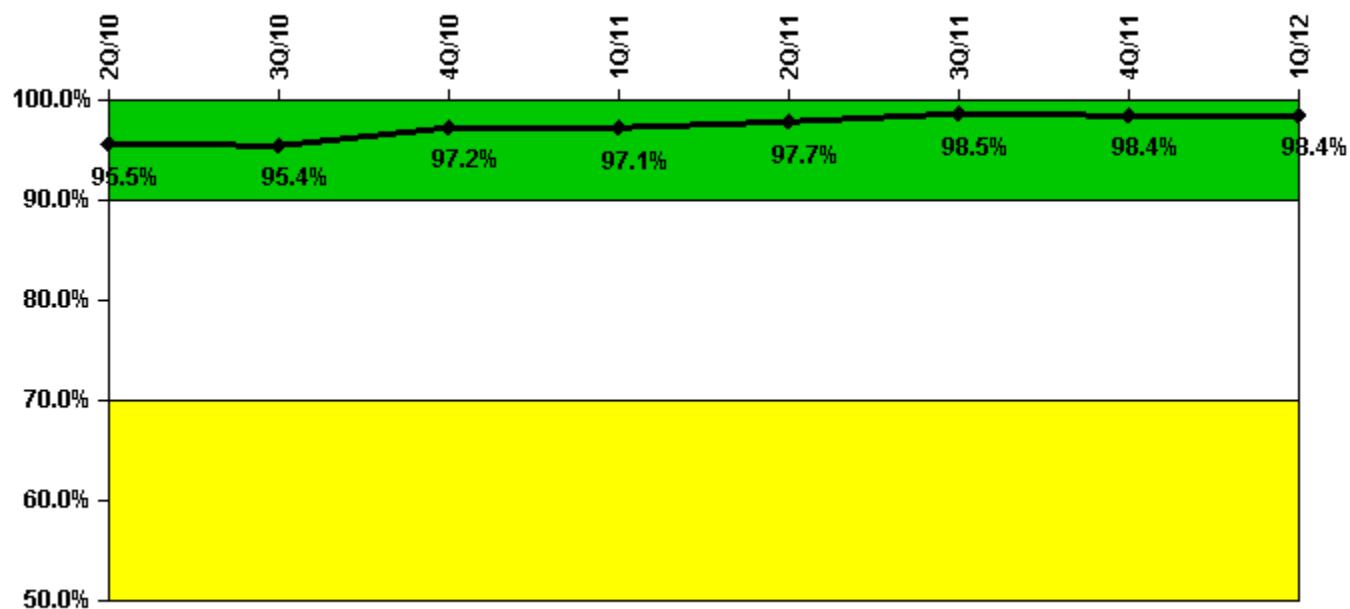
Thresholds: White > 50.0 Yellow > 100.0

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	0.134	0.190	0.270	0.210	0.130	0.130	0.110	0.110	0.130	0.080	0.060	0.180
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	1.3	1.9	2.7	2.1	1.3	1.3	1.1	1.1	1.3	0.8	0.6	1.8
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	0.110	0.110	0.130	0.200	0.100	0.110	0.090	0.110	0.110	0.110	0.110	0.080
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	1.1	1.1	1.3	2.0	1.0	1.1	0.9	1.1	1.1	1.1	1.1	0.8

Licensee Comments: none

Drill/Exercise Performance



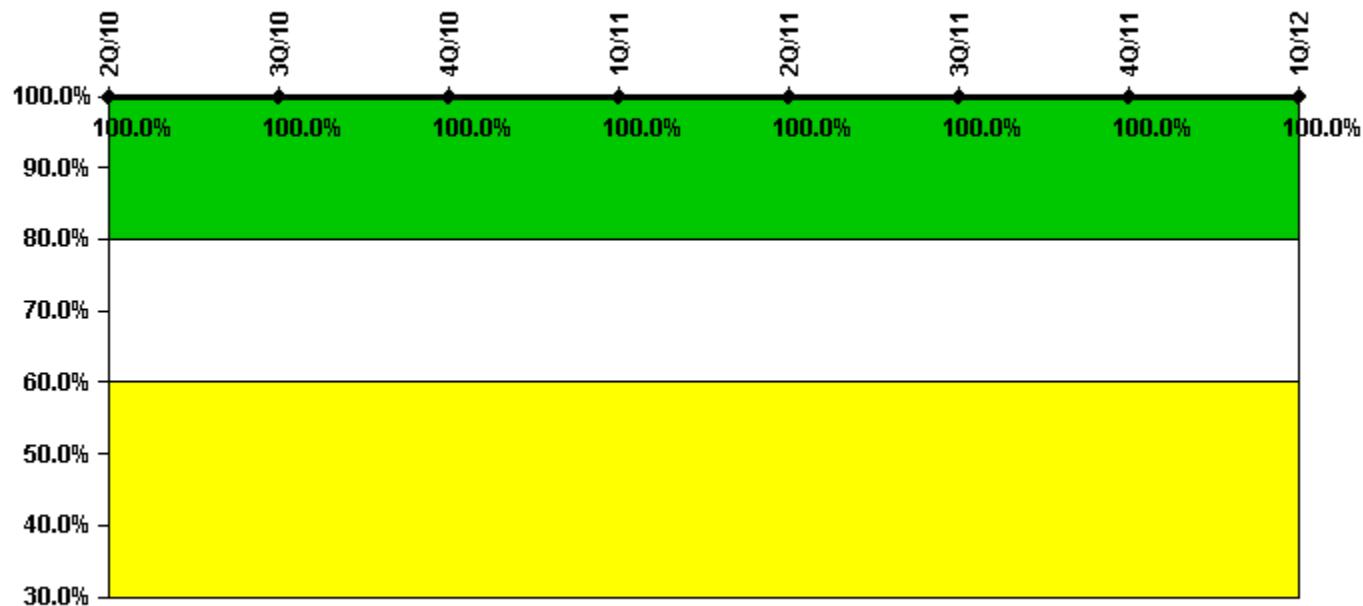
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful opportunities	23.0	76.0	53.0	4.0	58.0	30.0	56.0	5.0
Total opportunities	23.0	78.0	54.0	4.0	59.0	30.0	57.0	5.0
Indicator value	95.5%	95.4%	97.2%	97.1%	97.7%	98.5%	98.4%	98.4%

Licensee Comments: none

ERO Drill Participation



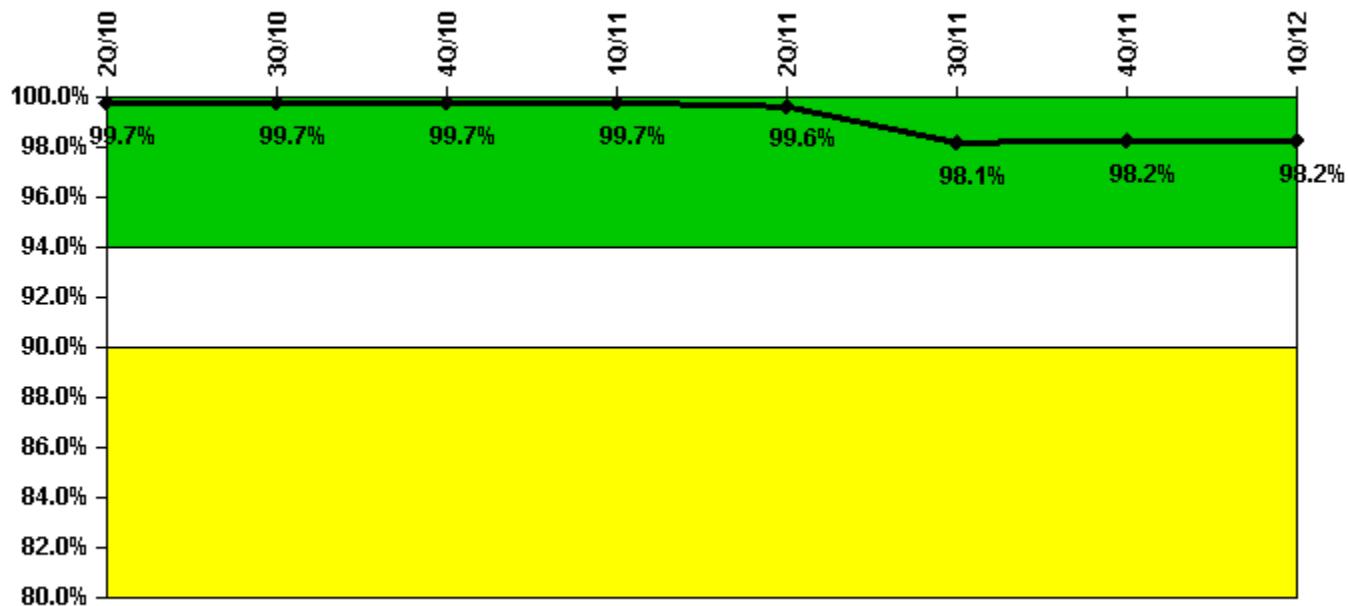
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Participating Key personnel	87.0	86.0	88.0	85.0	88.0	83.0	84.0	86.0
Total Key personnel	87.0	86.0	88.0	85.0	88.0	83.0	84.0	86.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

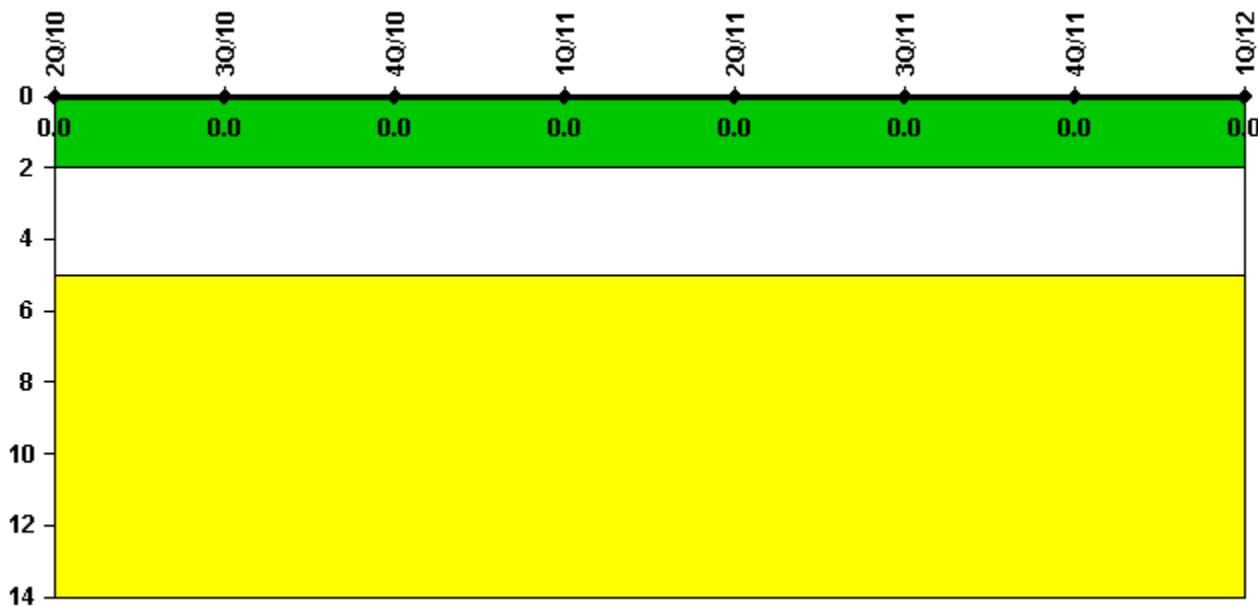
Notes

Alert & Notification System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful siren-tests	948	948	940	949	945	889	946	947
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.7%	99.7%	99.7%	99.7%	99.6%	98.1%	98.2%	98.2%

Licensee Comments:

3Q/11: ANS test was misinterpreted and incorrectly reported in 3Q2011. The system engineer caught the error and Licensing corrected in CDE in 1Q2012. CR-2012-000541.

Occupational Exposure Control Effectiveness



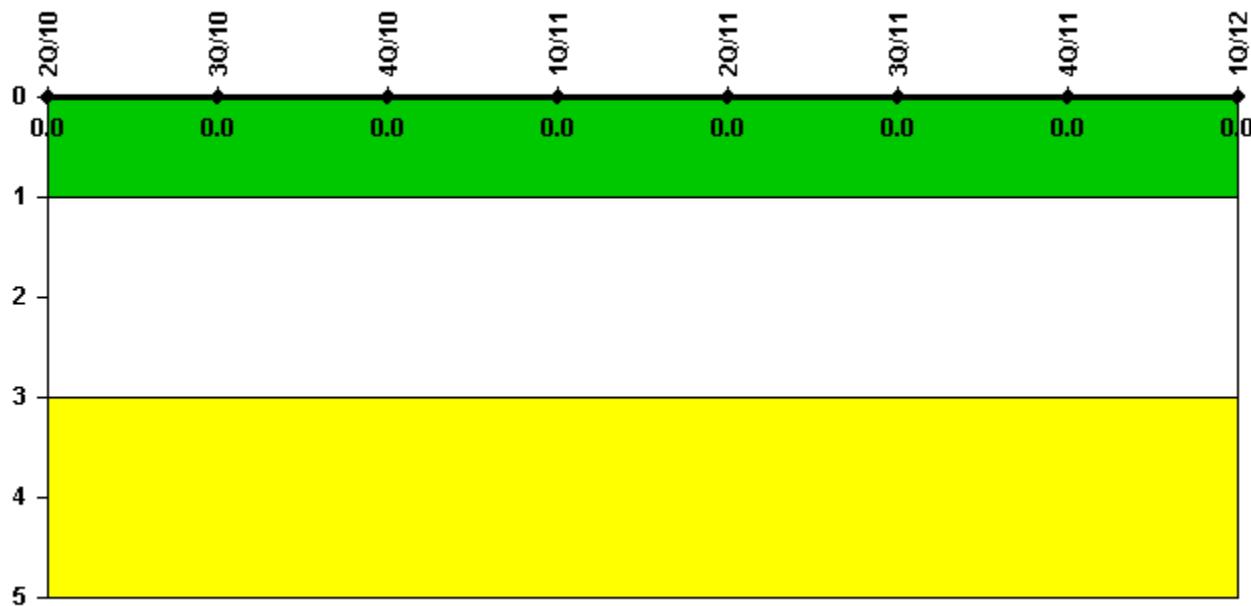
Thresholds: White > 2.0 Yellow > 5.0

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.

Calvert Cliffs 2

2Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



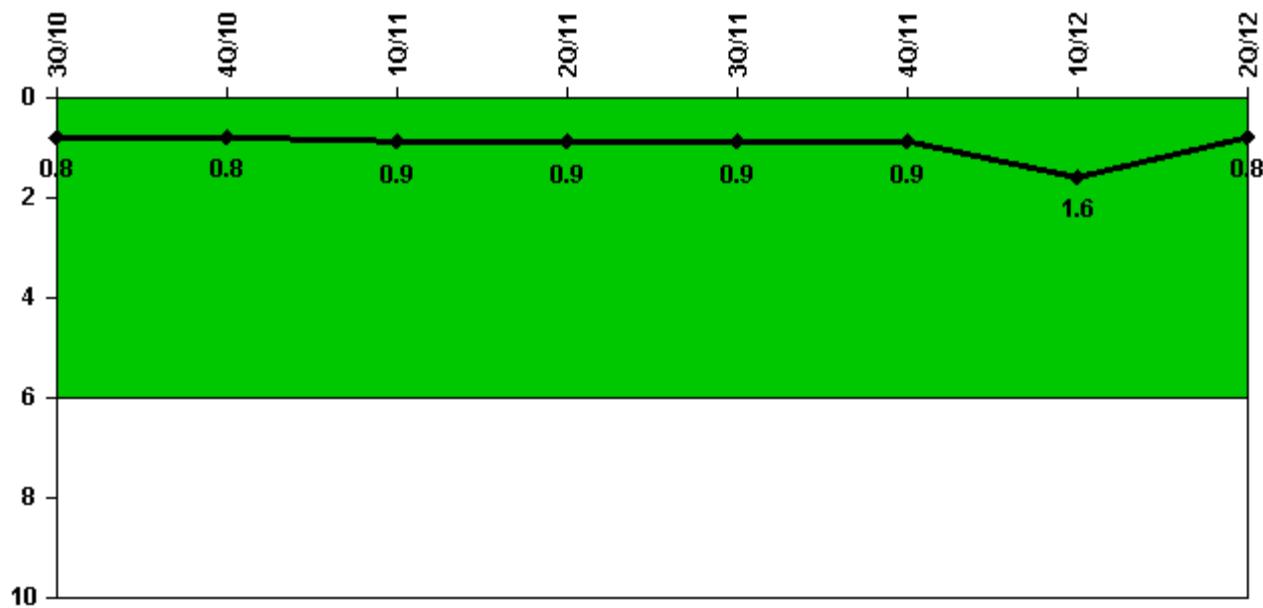
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0
Critical hours	2208.0	2209.0	1475.6	2184.0	2208.0	2209.0	2183.0	2184.0
Indicator value	0.8	0.8	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



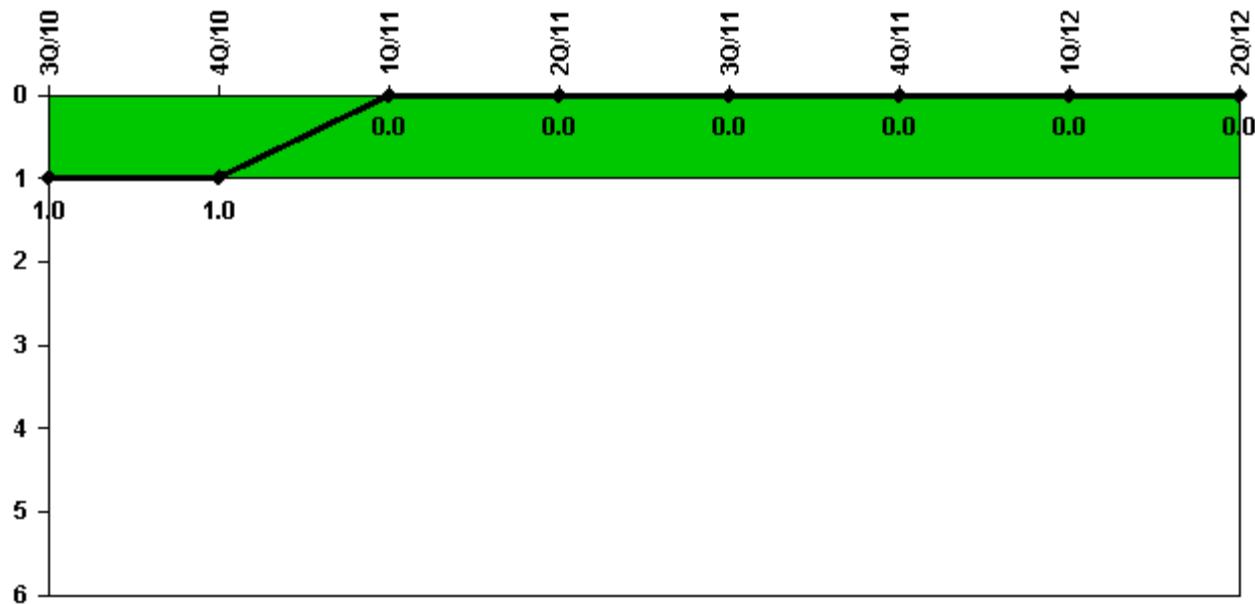
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned power changes	0	0	0	1.0	0	0	1.0	0
Critical hours	2208.0	2209.0	1475.6	2184.0	2208.0	2209.0	2183.0	2184.0
Indicator value	0.8	0.8	0.9	0.9	0.9	0.9	1.6	0.8

Licensee Comments: none

Unplanned Scrams with Complications



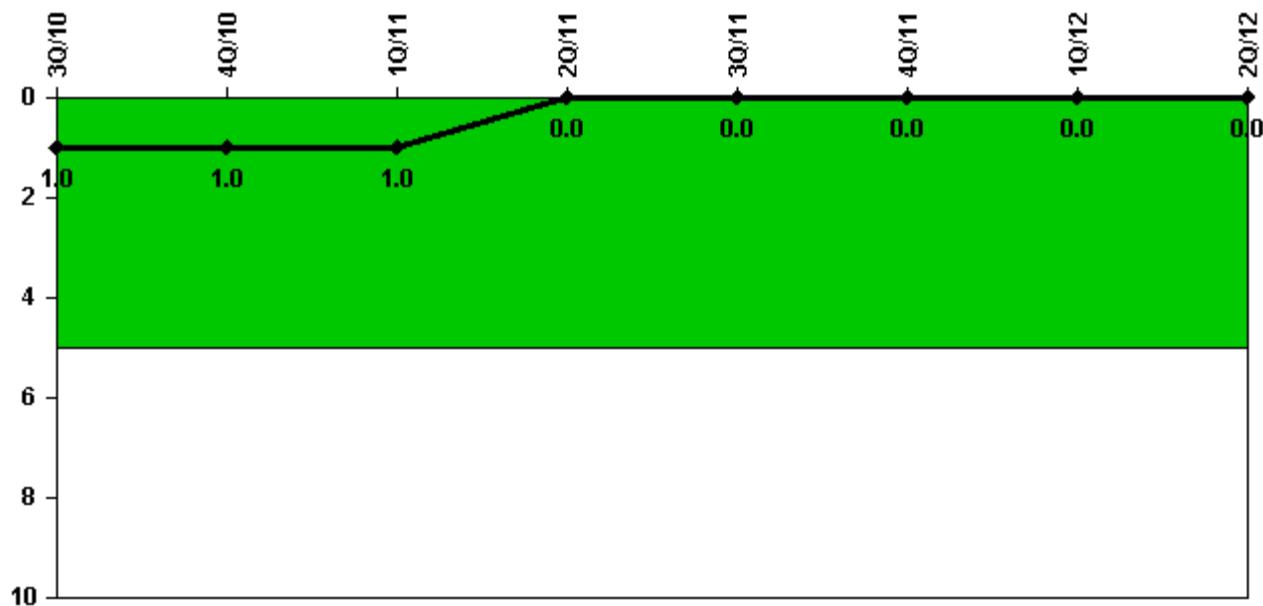
Thresholds: White > 1.0

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	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



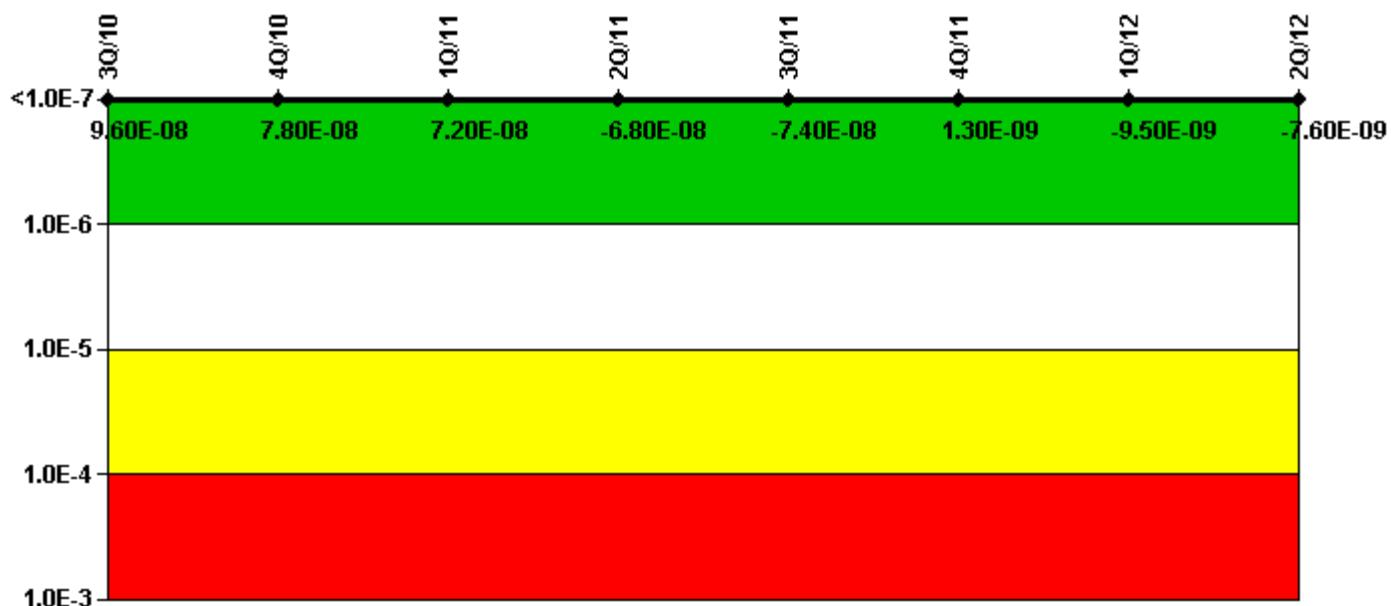
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/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	1	1	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

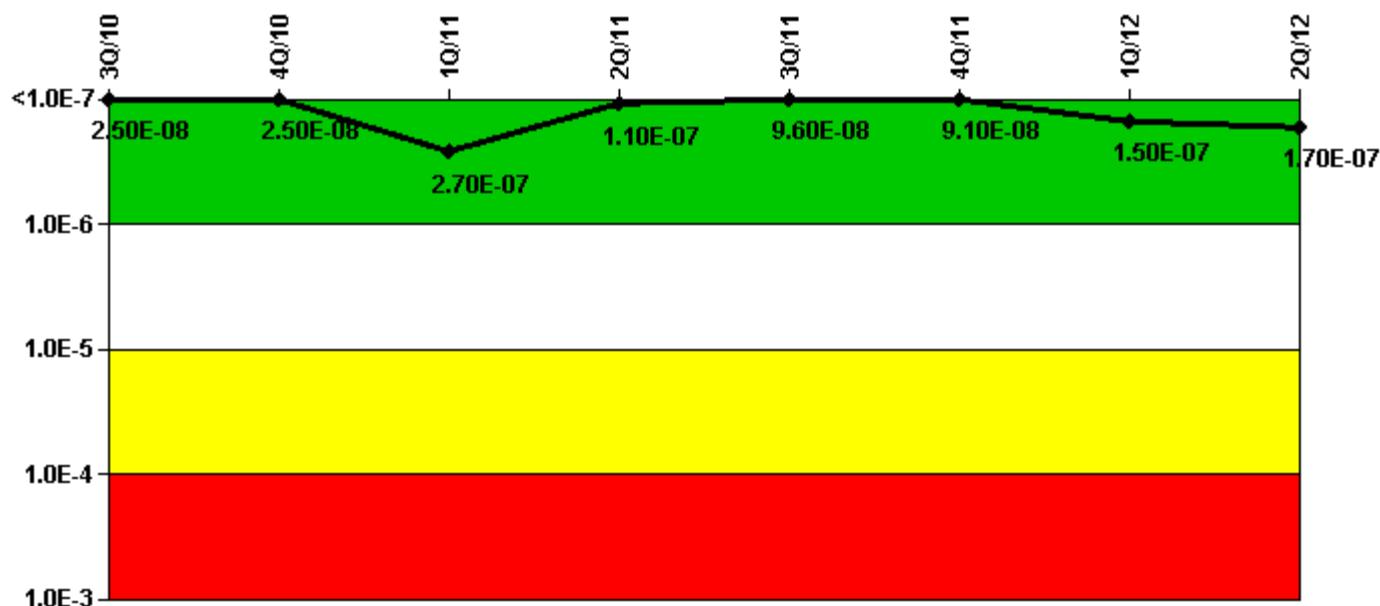
Mitigating Systems Performance Index, Emergency AC Power System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (Δ CDF)	1.11E-07	9.08E-08	8.65E-08	2.82E-09	-4.23E-09	8.01E-08	6.53E-08	6.53E-08
URI (Δ CDF)		-1.45E-08	-1.29E-08	-1.42E-08	-7.07E-08	-6.94E-08	-7.88E-08	-7.48E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		9.60E-08	7.80E-08	7.20E-08	-6.80E-08	-7.40E-08	1.30E-09	-9.50E-09

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

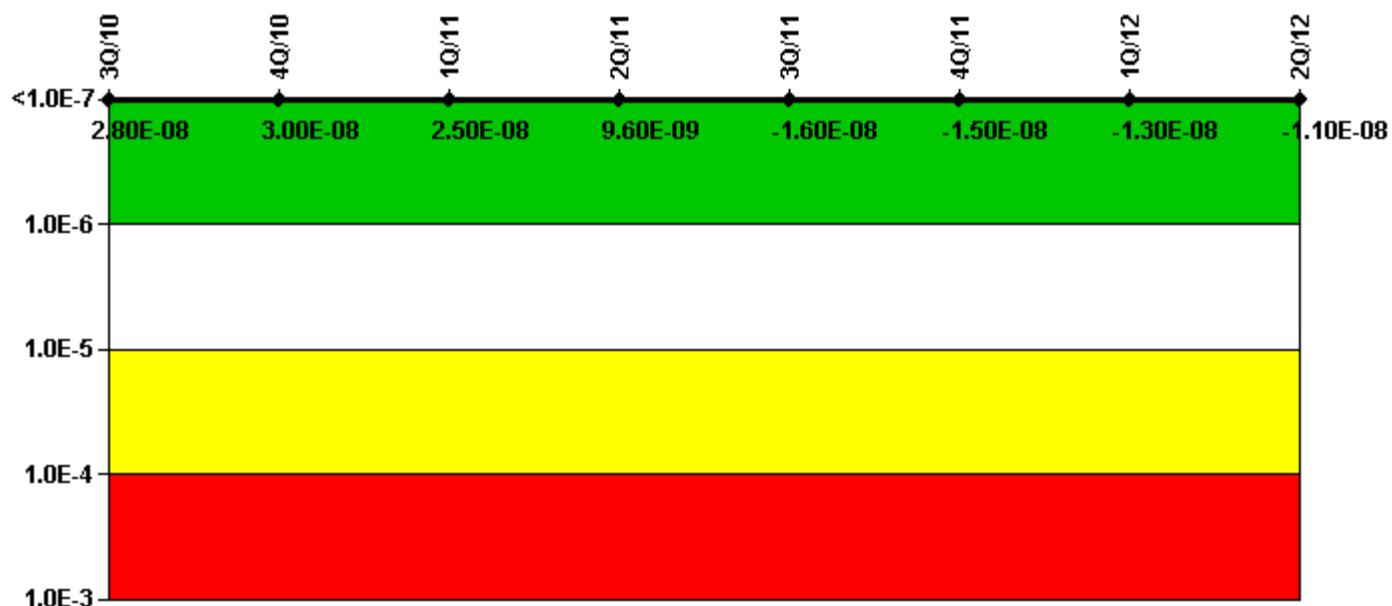
Mitigating Systems Performance Index, High Pressure Injection System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	8.72E-08	8.65E-08	1.33E-07	1.64E-08	5.59E-09	-8.25E-10	4.27E-08	5.53E-08
URI (ΔCDF)	-6.18E-08	-6.16E-08	1.33E-07	9.42E-08	9.06E-08	9.14E-08	1.09E-07	1.11E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.50E-08	2.50E-08	2.70E-07	1.10E-07	9.60E-08	9.10E-08	1.50E-07	1.70E-07

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

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 (Δ CDF)	-6.25E-09	-6.61E-09	-4.83E-09	-2.80E-09	-2.77E-09	-2.06E-09	-2.46E-09	-8.59E-10
URI (Δ CDF)	3.41E-08	3.62E-08	3.00E-08	1.24E-08	-1.28E-08	-1.26E-08	-1.06E-08	-1.03E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.80E-08	3.00E-08	2.50E-08	9.60E-09	-1.60E-08	-1.50E-08	-1.30E-08	-1.10E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

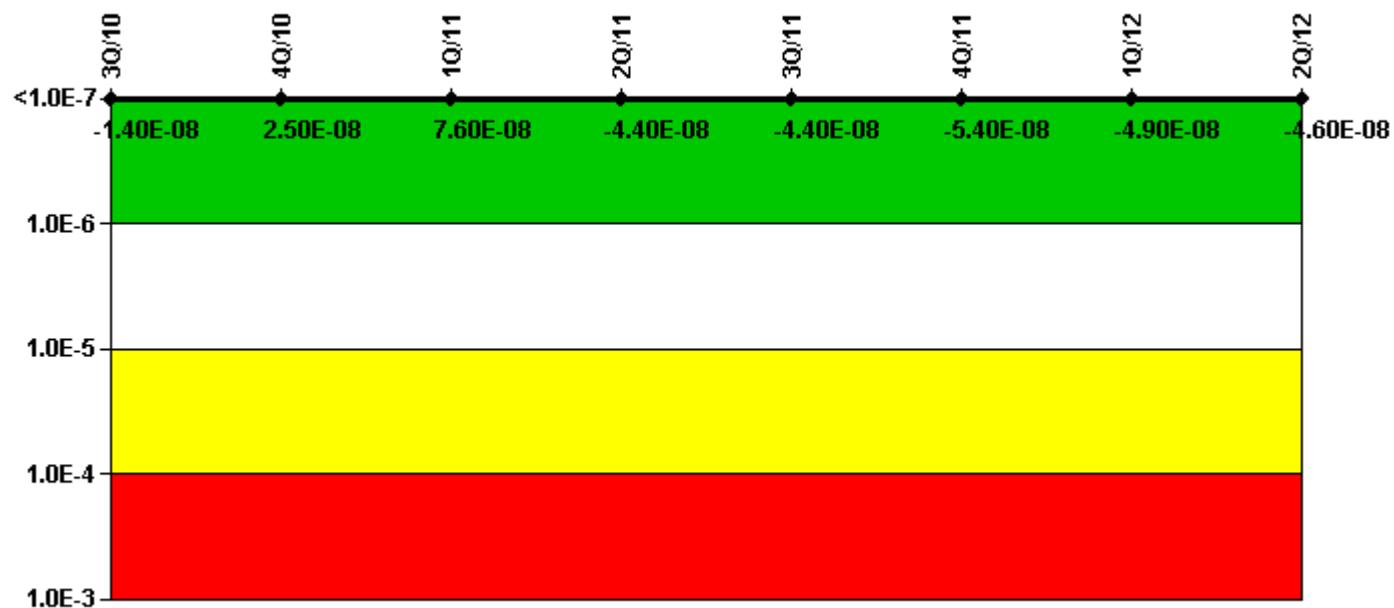
1Q/11: Changed PRA Parameter(s). Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

4Q/10: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

3Q/10: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

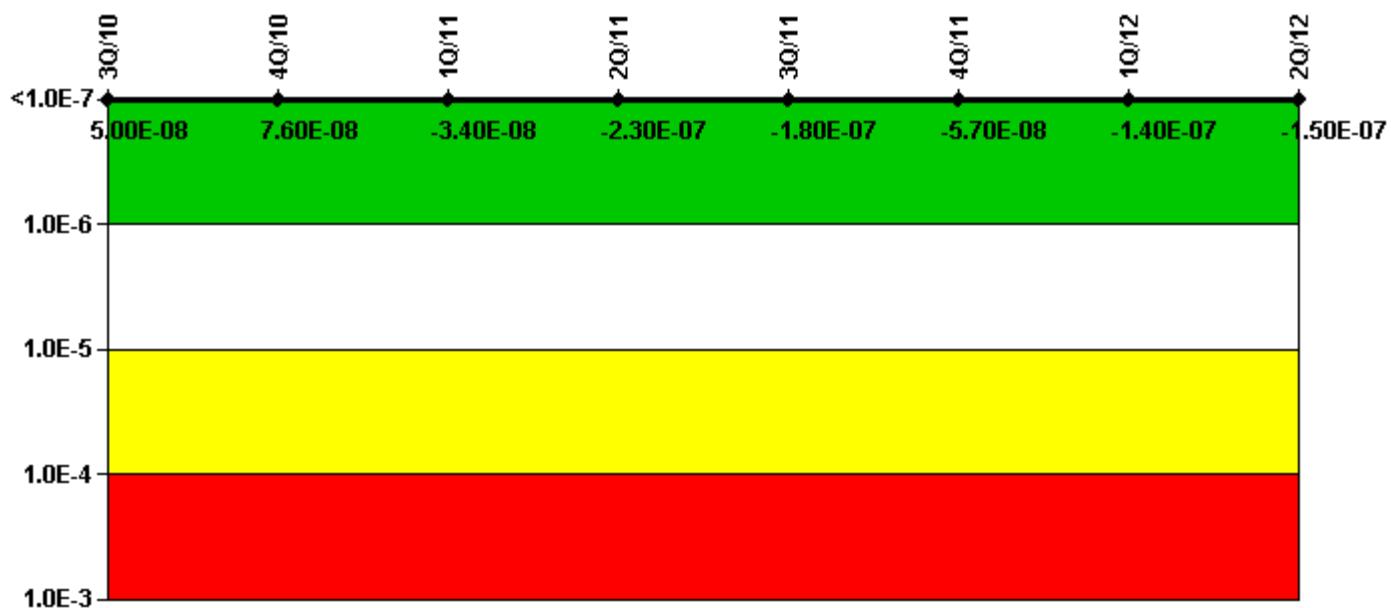
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (Δ CDF)	-1.86E-08	2.06E-08	7.31E-08	-4.54E-08	-4.51E-08	-5.46E-08	-4.43E-08	-4.10E-08
URI (Δ CDF)	4.19E-09	4.10E-09	2.91E-09	9.15E-10	6.91E-10	4.25E-10	-4.61E-09	-4.62E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	2.50E-08	7.60E-08	-4.40E-08	-4.40E-08	-5.40E-08	-4.90E-08	-4.60E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

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)	6.56E-08	9.20E-08	9.29E-08	7.52E-09	5.79E-08	1.81E-07	9.35E-08	8.44E-08
URI (ΔCDF)	-1.59E-08	-1.56E-08	-1.27E-07	-2.35E-07	-2.39E-07	-2.39E-07	-2.38E-07	-2.38E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.00E-08	7.60E-08	-3.40E-08	-2.30E-07	-1.80E-07	-5.70E-08	-1.40E-07	-1.50E-07

Licensee Comments:

4Q/11: Two CWS2 AOVs added due to current inability to validate their exclusion during the original MSPI scoping.
CR-2011-008863

2Q/11: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

2Q/11: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization. 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization. 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

4Q/10: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

4Q/10: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

3Q/10: 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

3Q/10: 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850). 4-11-12: Two CWS2 AOVs added due to current inability to validate their exclusion during the original MSPI scoping.

3Q/10: 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

Reactor Coolant System Activity



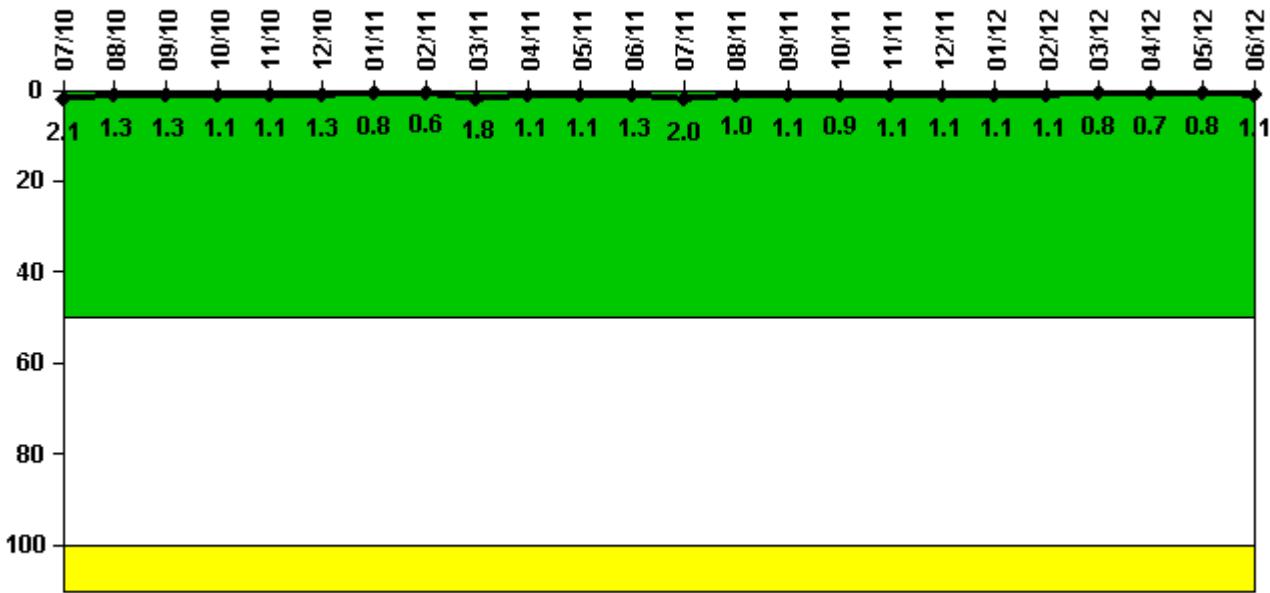
Thresholds: White > 50.0 Yellow > 100.0

Notes

Indicator value	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.4
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Licensee Comments: none

Reactor Coolant System Leakage



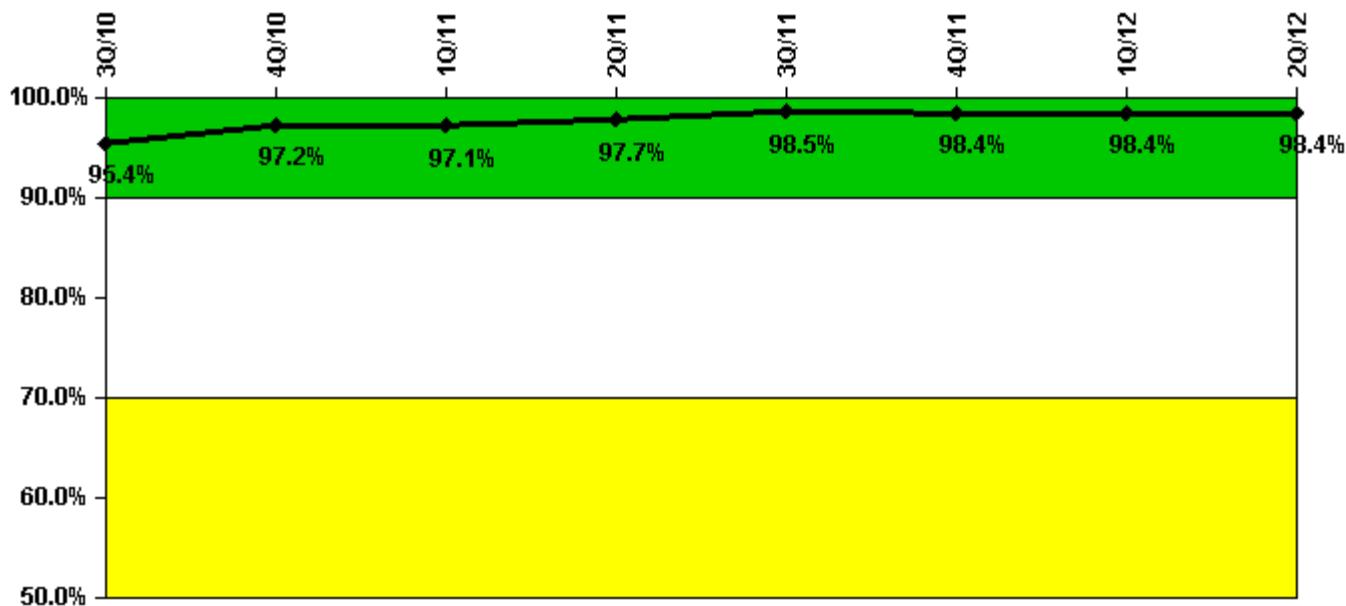
Thresholds: White > 50.0 Yellow > 100.0

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	0.210	0.130	0.130	0.110	0.110	0.130	0.080	0.060	0.180	0.110	0.110	0.130
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	2.1	1.3	1.3	1.1	1.1	1.3	0.8	0.6	1.8	1.1	1.1	1.3
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	0.200	0.100	0.110	0.090	0.110	0.110	0.110	0.110	0.080	0.070	0.080	0.110
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	2.0	1.0	1.1	0.9	1.1	1.1	1.1	1.1	0.8	0.7	0.8	1.1

Licensee Comments: none

Drill/Exercise Performance



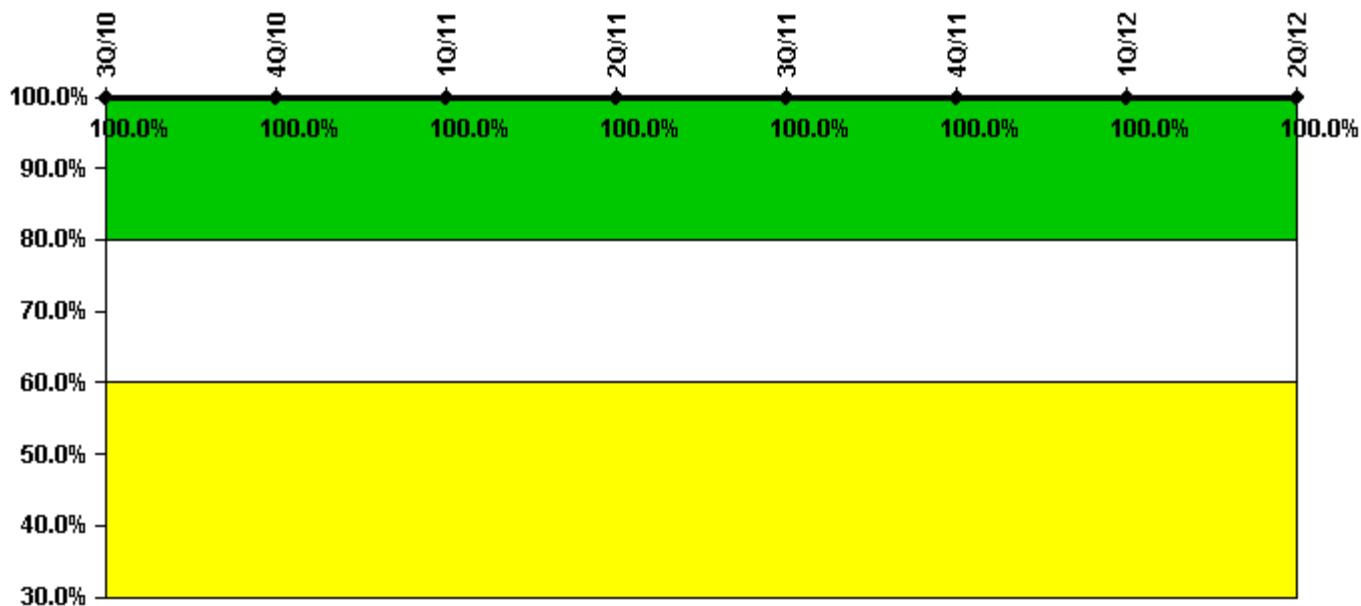
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful opportunities	76.0	53.0	4.0	58.0	30.0	56.0	5.0	25.0
Total opportunities	78.0	54.0	4.0	59.0	30.0	57.0	5.0	25.0
Indicator value	95.4%	97.2%	97.1%	97.7%	98.5%	98.4%	98.4%	98.4%

Licensee Comments: none

ERO Drill Participation



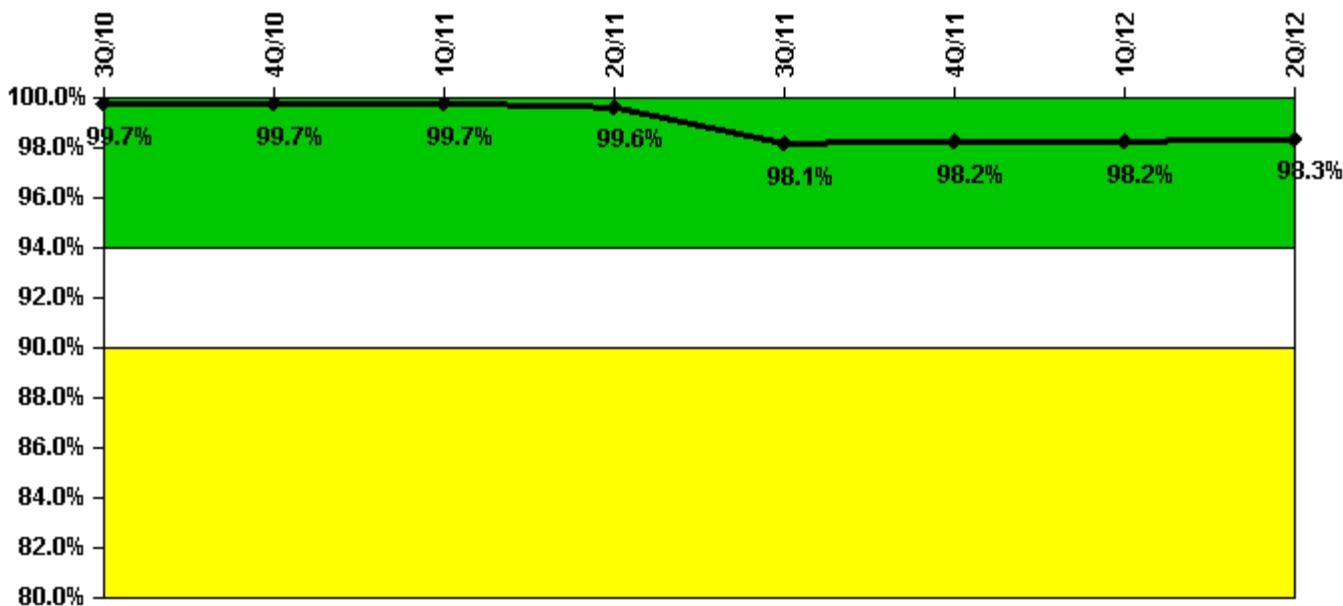
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Participating Key personnel	86.0	88.0	85.0	88.0	83.0	84.0	86.0	80.0
Total Key personnel	86.0	88.0	85.0	88.0	83.0	84.0	86.0	80.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

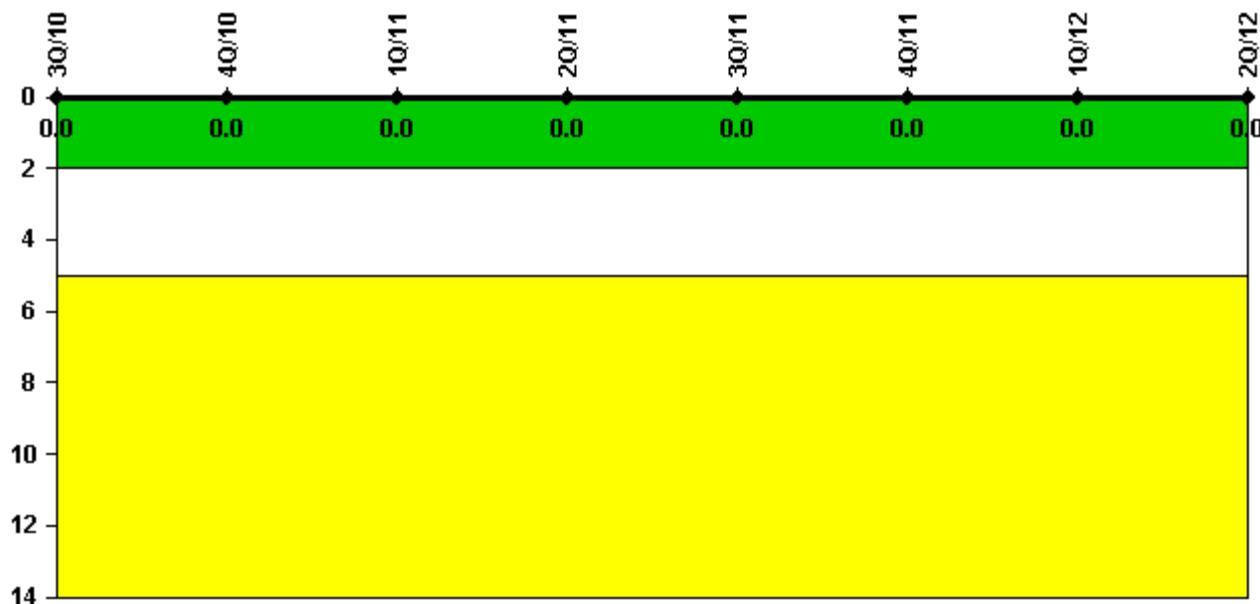
Notes

Alert & Notification System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful siren-tests	948	940	949	945	889	946	947	948
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.7%	99.7%	99.7%	99.6%	98.1%	98.2%	98.2%	98.3%

Licensee Comments:

3Q/11: ANS test was misinterpreted and incorrectly reported in 3Q2011. The system engineer caught the error and Licensing corrected in CDE in 1Q2012. CR-2012-000541.

Occupational Exposure Control Effectiveness



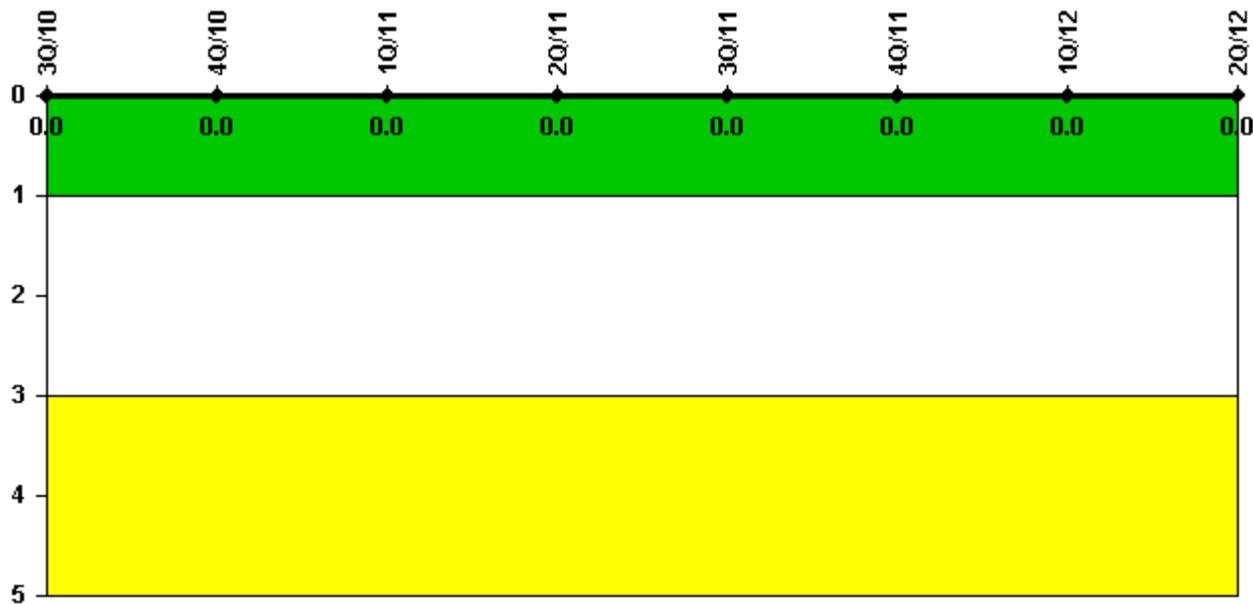
Thresholds: White > 2.0 Yellow > 5.0

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.



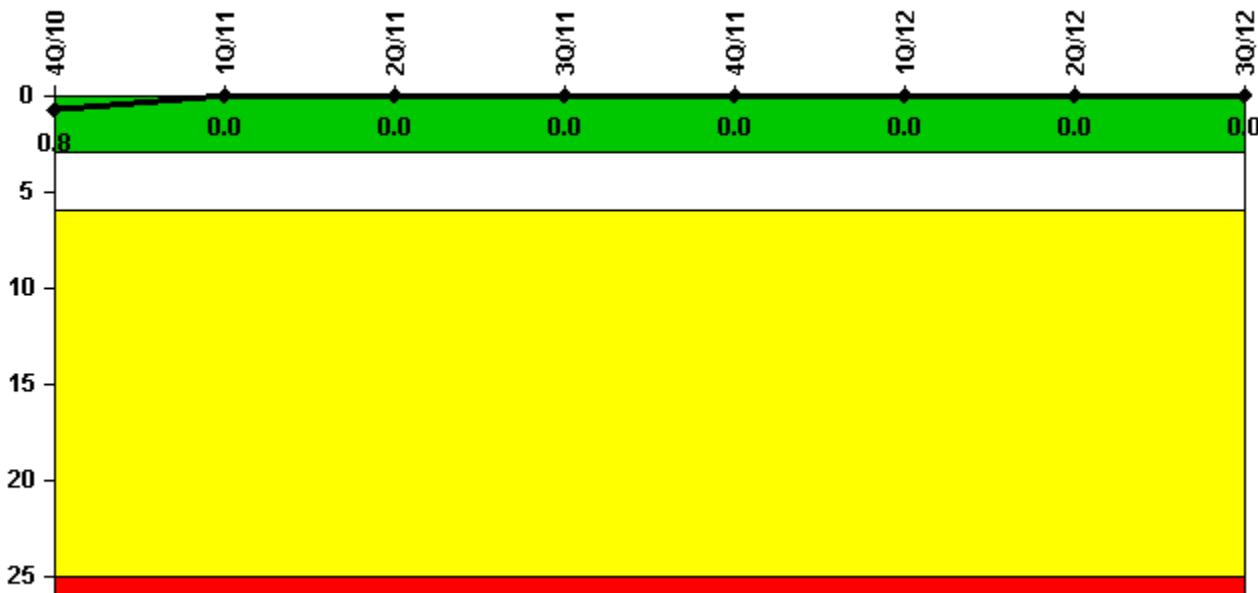
[Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Calvert Cliffs 2

3Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



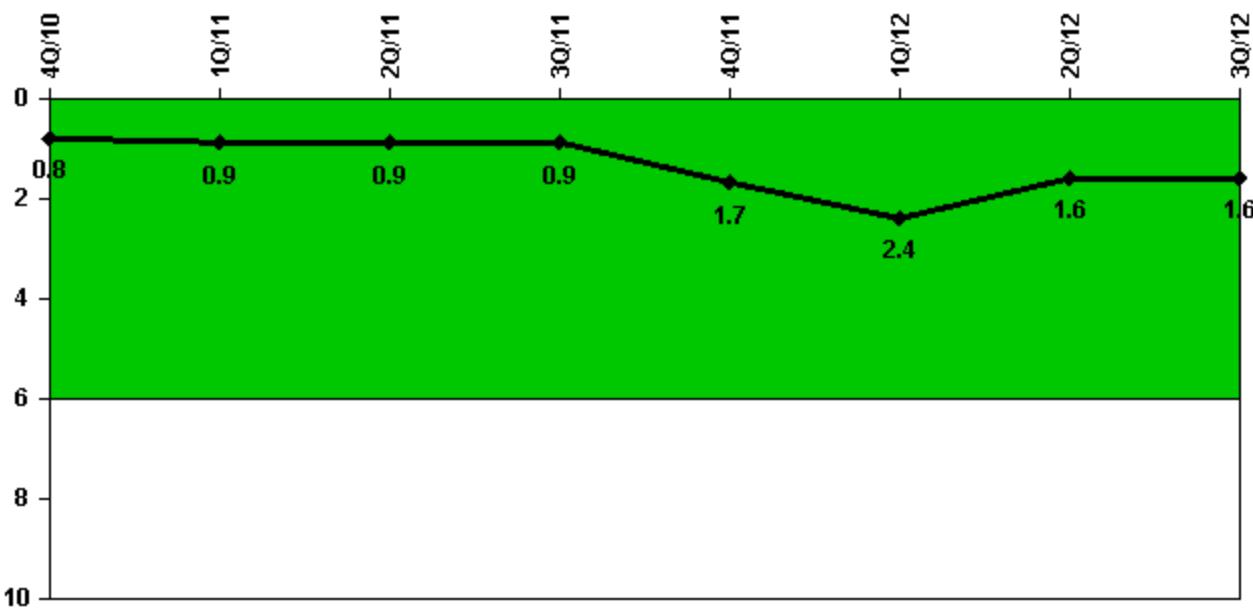
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0
Critical hours	2209.0	1475.6	2184.0	2208.0	2209.0	2183.0	2184.0	2208.0
Indicator value	0.8	0						

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

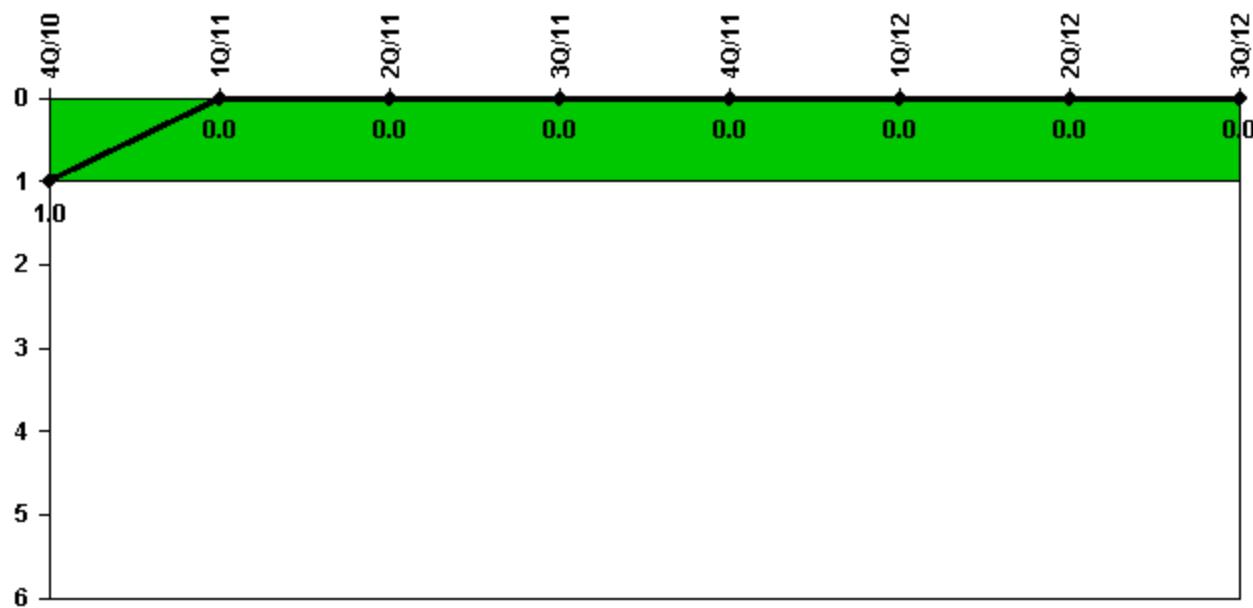
Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned power changes	0	0	1.0	0	1.0	1.0	0	0
Critical hours	2209.0	1475.6	2184.0	2208.0	2209.0	2183.0	2184.0	2208.0
Indicator value	0.8	0.9	0.9	0.9	1.7	2.4	1.6	1.6

Licensee Comments:

4Q/11: Power change occurrence selected during data entry in 11-2011 should have been "unplanned, NOT excluded per NEI 99-02" vs. incorrect selection "unplanned, excluded per NEI 99-02". Error discovered in October 2012 and corrected, CR-2012-009097 written. No thresholds or color changes were crossed as a result of including these power changes.

Unplanned Scrams with Complications



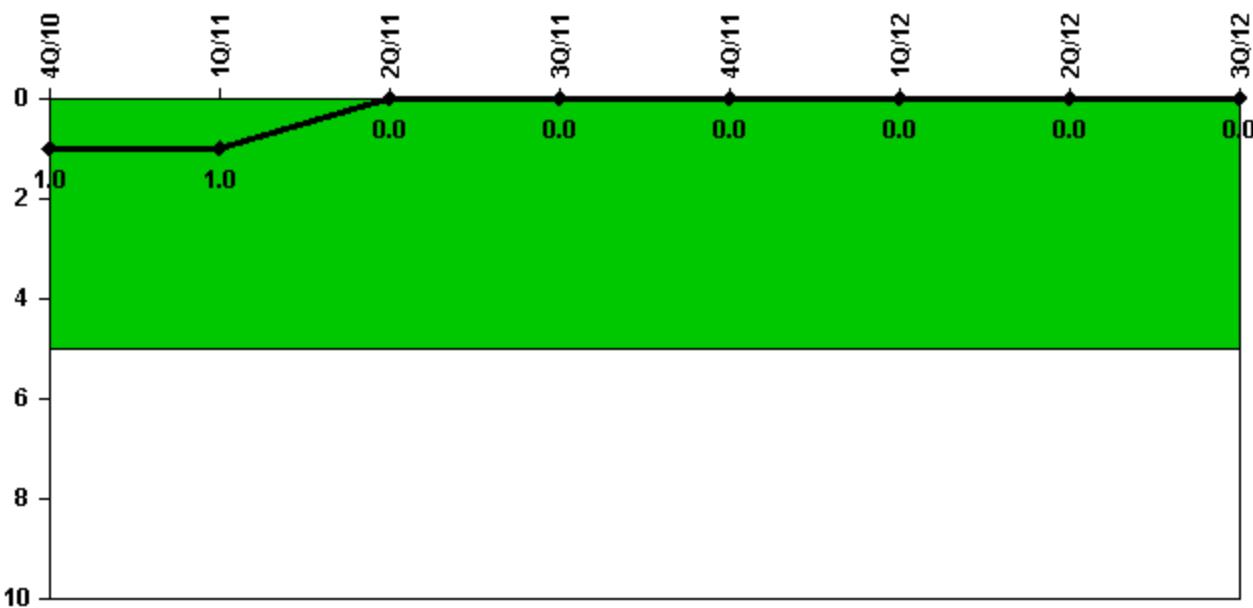
Thresholds: White > 1.0

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	1.0	0.0						

Licensee Comments: none

Safety System Functional Failures (PWR)



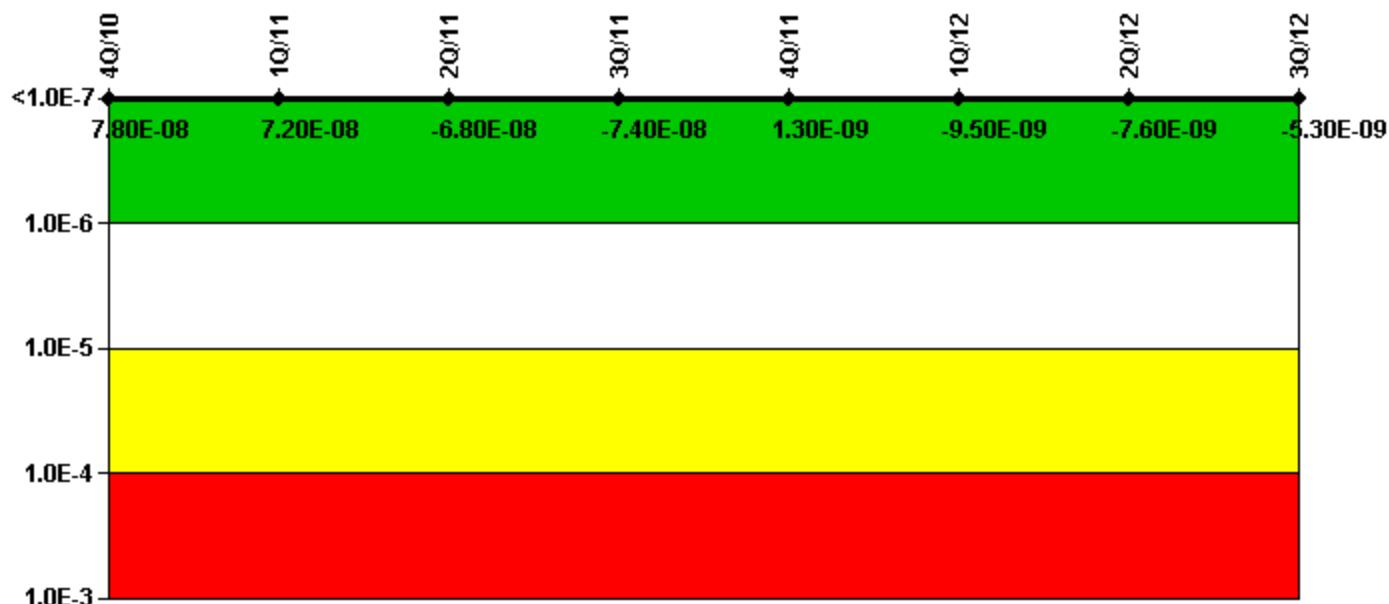
Thresholds: White > 5.0

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	1	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

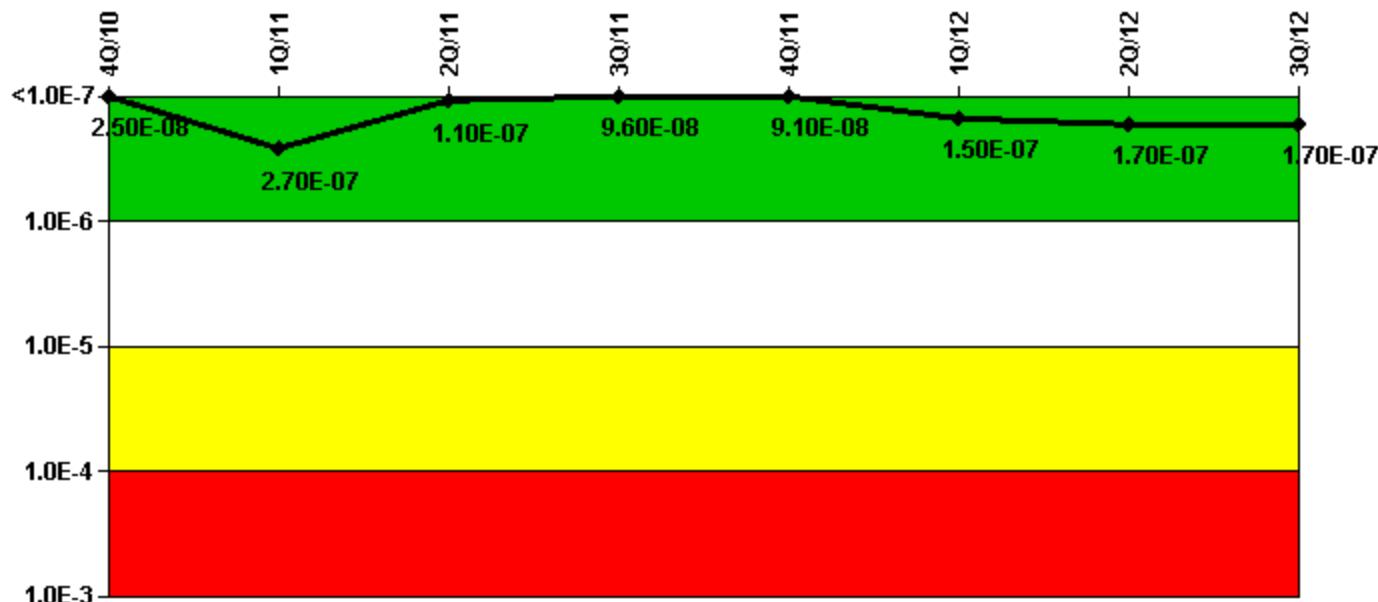
Mitigating Systems Performance Index, Emergency AC Power System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	9.08E-08	8.65E-08	2.82E-09	-4.23E-09	8.01E-08	6.53E-08	6.53E-08	6.38E-08
URI (Δ CDF)	-1.29E-08	-1.42E-08	-7.07E-08	-6.94E-08	-7.88E-08	-7.48E-08	-7.29E-08	-6.91E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.80E-08	7.20E-08	-6.80E-08	-7.40E-08	1.30E-09	-9.50E-09	-7.60E-09	-5.30E-09

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

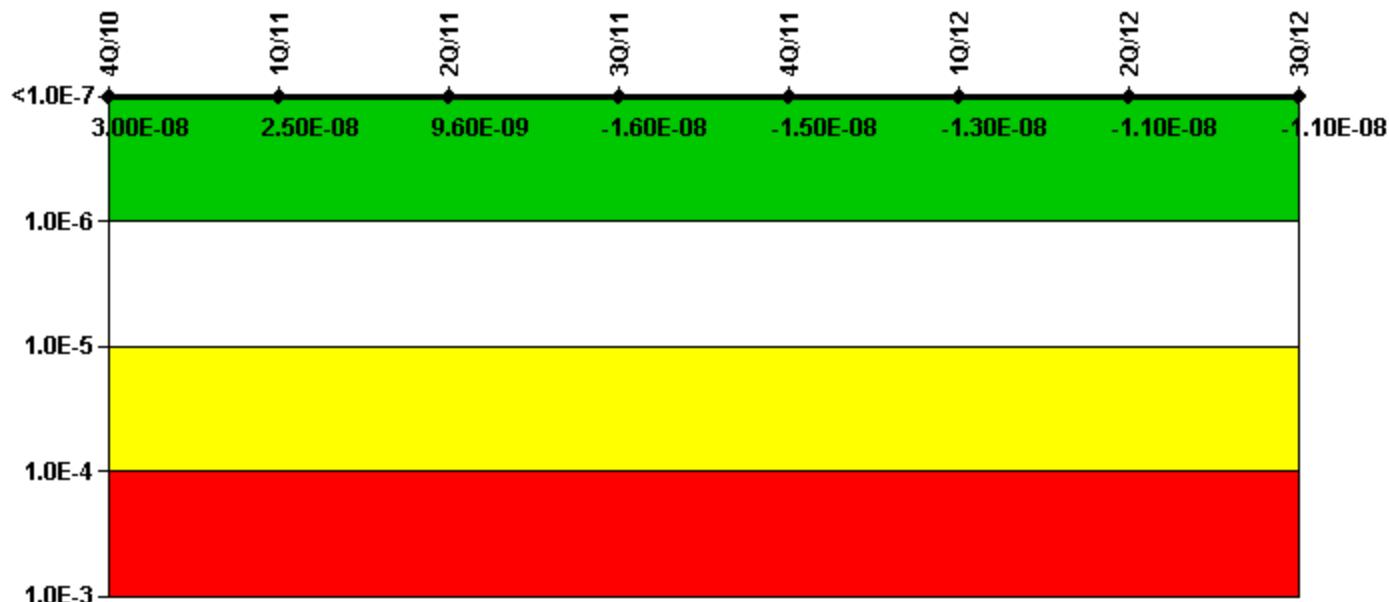
Mitigating Systems Performance Index, High Pressure Injection System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	8.65E-08	1.33E-07	1.64E-08	5.59E-09	-8.25E-10	4.27E-08	5.53E-08	6.19E-08
URI (Δ CDF)	-6.16E-08	1.33E-07	9.42E-08	9.06E-08	9.14E-08	1.09E-07	1.11E-07	1.12E-07
PLE	NO							
Indicator value	2.50E-08	2.70E-07	1.10E-07	9.60E-08	9.10E-08	1.50E-07	1.70E-07	1.70E-07

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

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)	-6.61E-09	-4.83E-09	-2.80E-09	-2.77E-09	-2.06E-09	-2.46E-09	-8.59E-10	-8.25E-10
URI (Δ CDF)	3.62E-08	3.00E-08	1.24E-08	-1.28E-08	-1.26E-08	-1.06E-08	-1.03E-08	-1.02E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.00E-08	2.50E-08	9.60E-09	-1.60E-08	-1.50E-08	-1.30E-08	-1.10E-08	-1.10E-08

Licensee Comments:

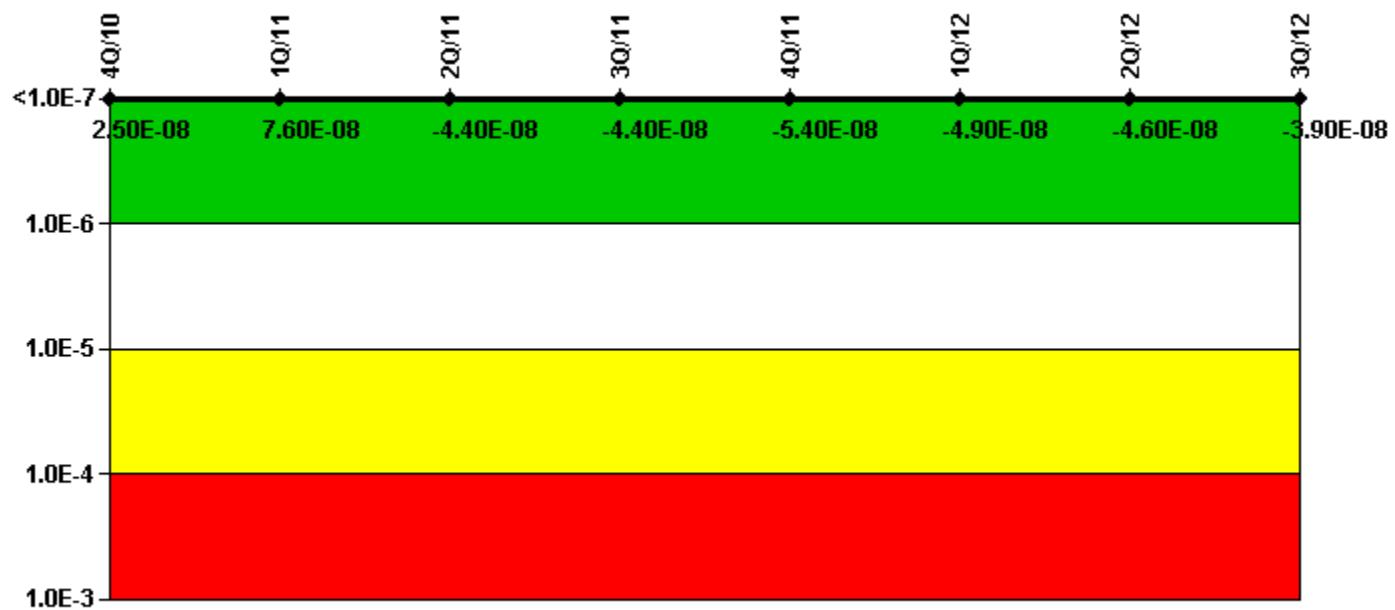
2Q/11: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

1Q/11: Changed PRA Parameter(s). Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

4Q/10: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

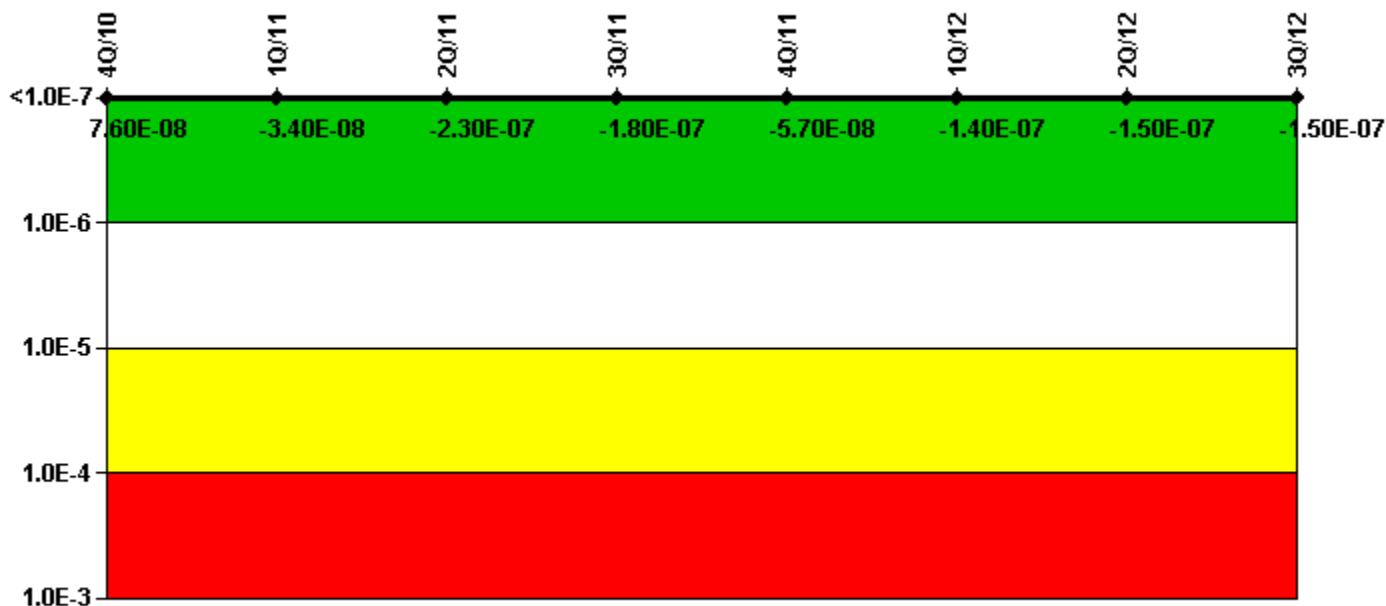
Mitigating Systems Performance Index, Residual Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	2.06E-08	7.31E-08	-4.54E-08	-4.51E-08	-5.46E-08	-4.43E-08	-4.10E-08	-3.45E-08
URI (Δ CDF)	4.10E-09	2.91E-09	9.15E-10	6.91E-10	4.25E-10	-4.61E-09	-4.62E-09	-4.47E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.50E-08	7.60E-08	-4.40E-08	-4.40E-08	-5.40E-08	-4.90E-08	-4.60E-08	-3.90E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

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)	9.20E-08	9.29E-08	7.52E-09	5.79E-08	1.81E-07	9.35E-08	8.44E-08	9.11E-08
URI (Δ CDF)	-1.56E-08	-1.27E-07	-2.35E-07	-2.39E-07	-2.39E-07	-2.38E-07	-2.38E-07	-2.38E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.60E-08	-3.40E-08	-2.30E-07	-1.80E-07	-5.70E-08	-1.40E-07	-1.50E-07	-1.50E-07

Licensee Comments:

4Q/11: Two CWS2 AOVs added due to current inability to validate their exclusion during the original MSPI scoping. CR-2011-008863

2Q/11: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

2Q/11: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization. 10-12-11:

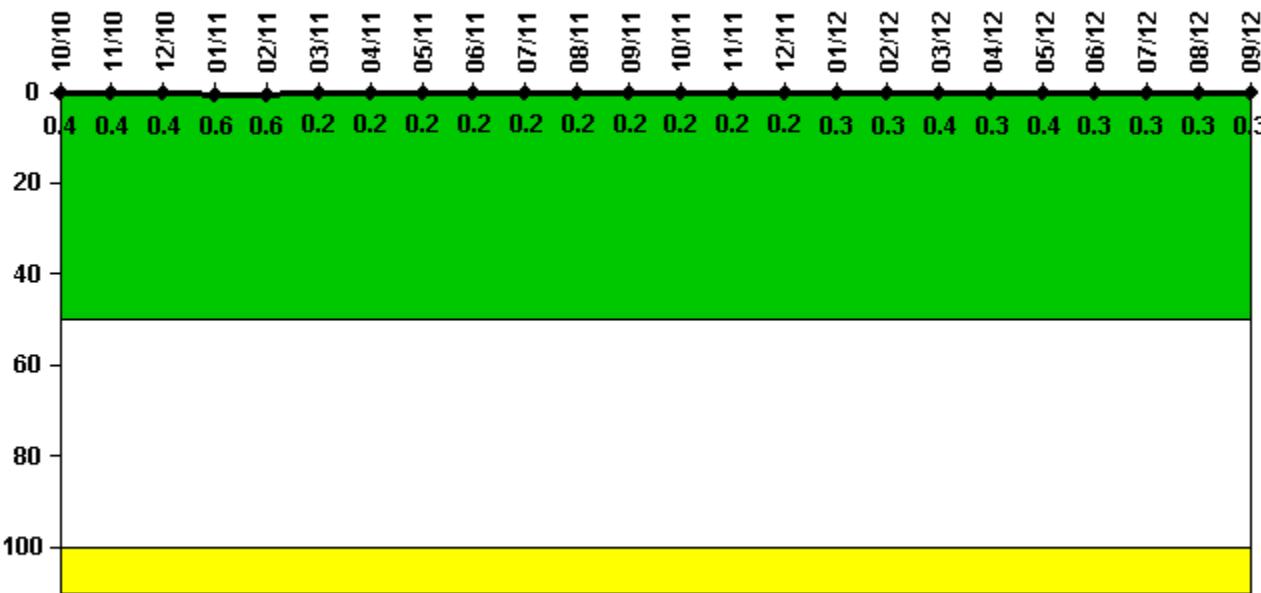
Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization. 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

4Q/10: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

4Q/10: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

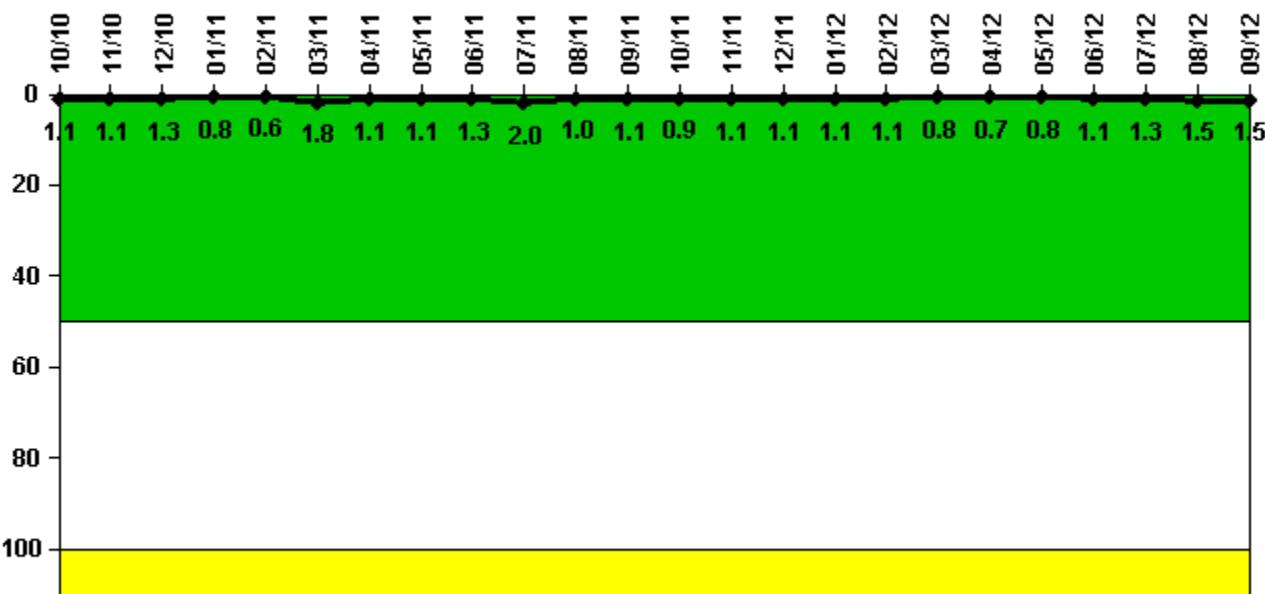
Notes

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	0.003950	0.003620	0.003710	0.003190	0.003230	0.000800	0.000863	0.000877	0.000842	0.000878	0.000956	0.001090
Technical specification limit	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

Indicator value	0.4	0.4	0.4	0.6	0.6	0.2	0.2	0.2	0.2	0.2	0.2	
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	0.001170	0.001080	0.001240	0.001270	0.001420	0.001770	0.001310	0.001780	0.001430	0.001370	0.001400	0.001460
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

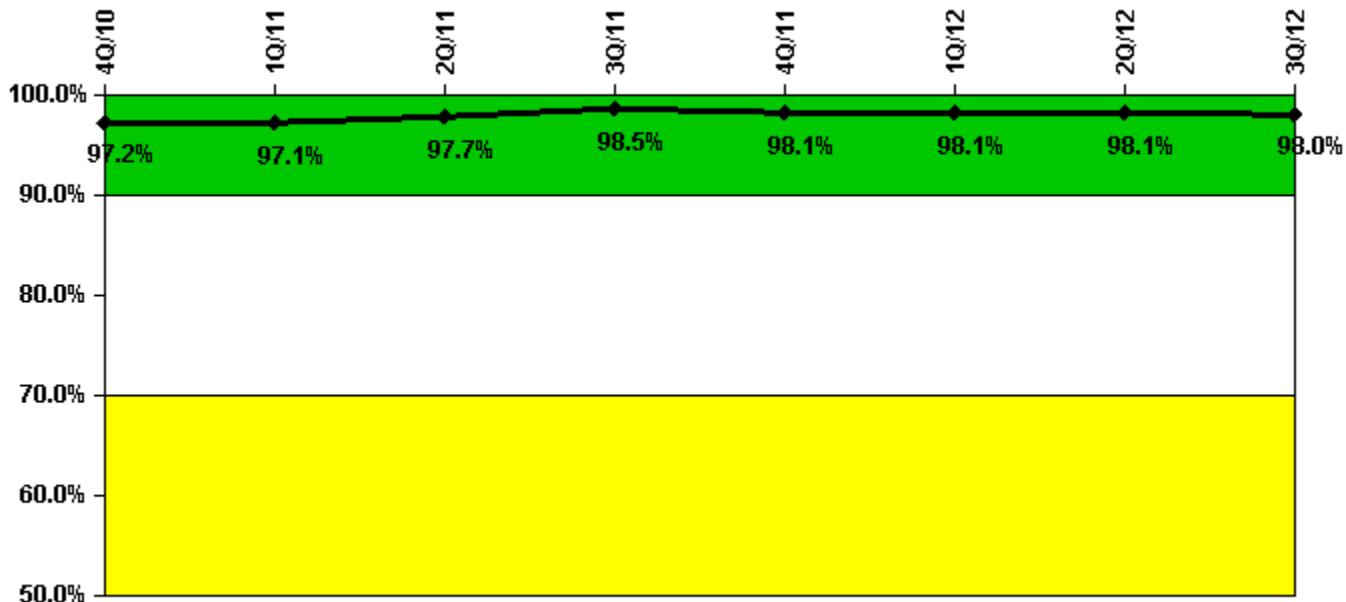
Notes

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	0.110	0.110	0.130	0.080	0.060	0.180	0.110	0.110	0.130	0.200	0.100	0.110
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	1.1	1.1	1.3	0.8	0.6	1.8	1.1	1.1	1.3	2.0	1.0	1.1
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	0.090	0.110	0.110	0.110	0.110	0.080	0.070	0.080	0.110	0.130	0.150	0.150
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	0.9	1.1	1.1	1.1	1.1	0.8	0.7	0.8	1.1	1.3	1.5	1.5

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

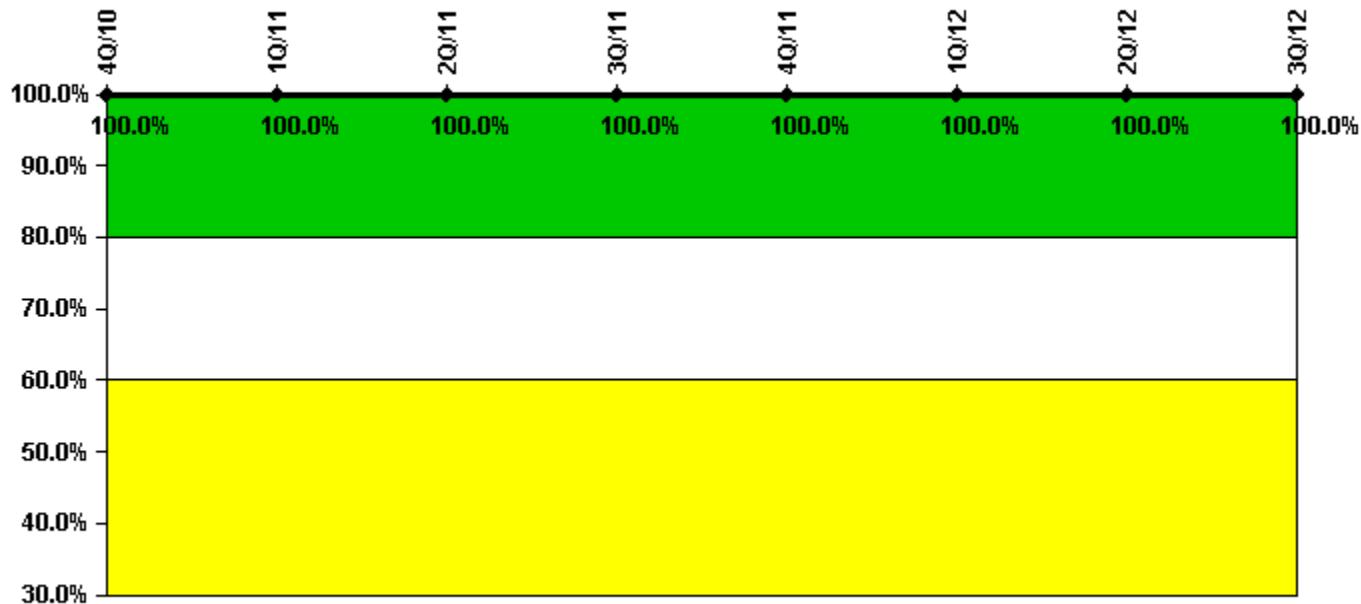
Drill/Exercise Performance	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful opportunities	53.0	4.0	58.0	30.0	55.0	5.0	25.0	12.0
Total opportunities	54.0	4.0	59.0	30.0	57.0	5.0	25.0	13.0
Indicator value	97.2%	97.1%	97.7%	98.5%	98.1%	98.1%	98.1%	98.0%

Licensee Comments:

4Q/11: CR-2012-007357: While reviewing the 10/04/2011 crew competency work sheet and initial notification

form, EP found sets A.4 and A.7 were incorrect. EP removed the notification performance success from the statistics and corrected the 4Q2011 data record.

ERO Drill Participation



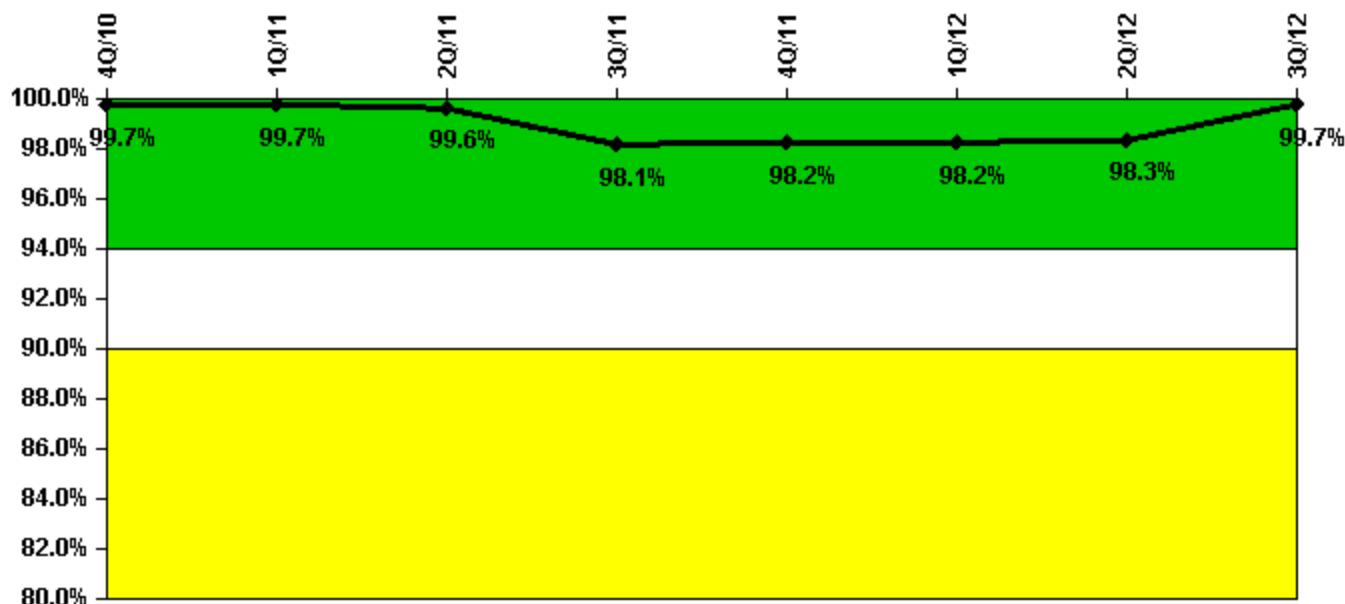
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Participating Key personnel	88.0	85.0	88.0	83.0	84.0	86.0	80.0	83.0
Total Key personnel	88.0	85.0	88.0	83.0	84.0	86.0	80.0	83.0
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%

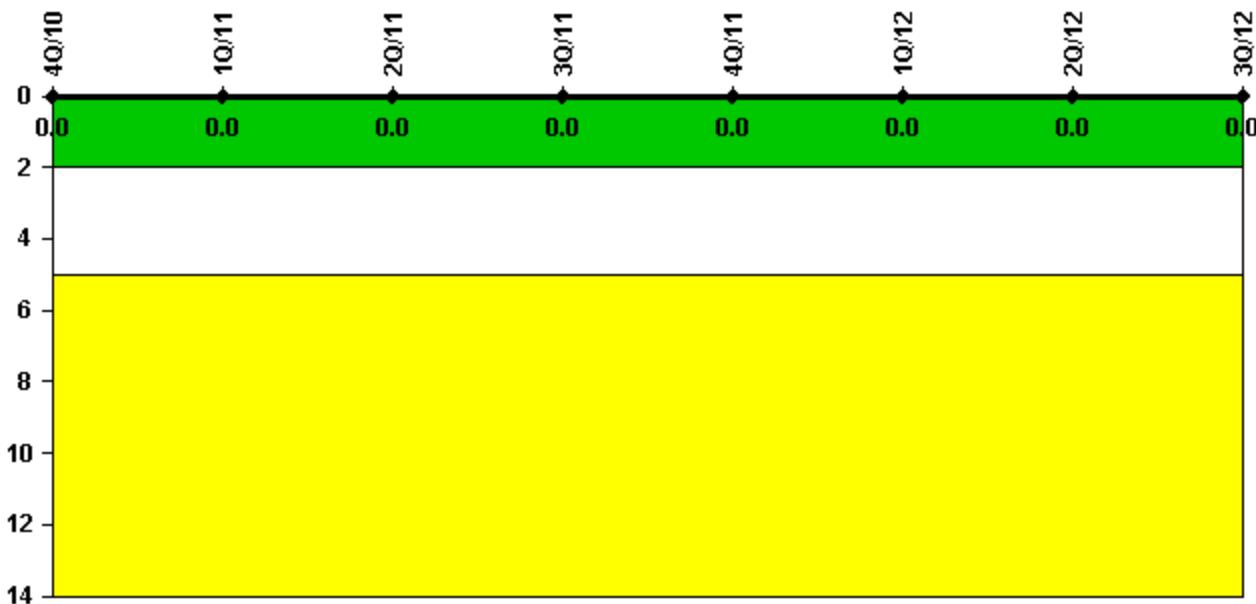
Notes

Alert & Notification System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful siren-tests	940	949	945	889	946	947	948	945
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.7%	99.7%	99.6%	98.1%	98.2%	98.2%	98.3%	99.7%

Licensee Comments:

3Q/11: ANS test was misinterpreted and incorrectly reported in 3Q2011. The system engineer caught the error and Licensing corrected in CDE in 1Q2012. CR-2012-000541.

Occupational Exposure Control Effectiveness



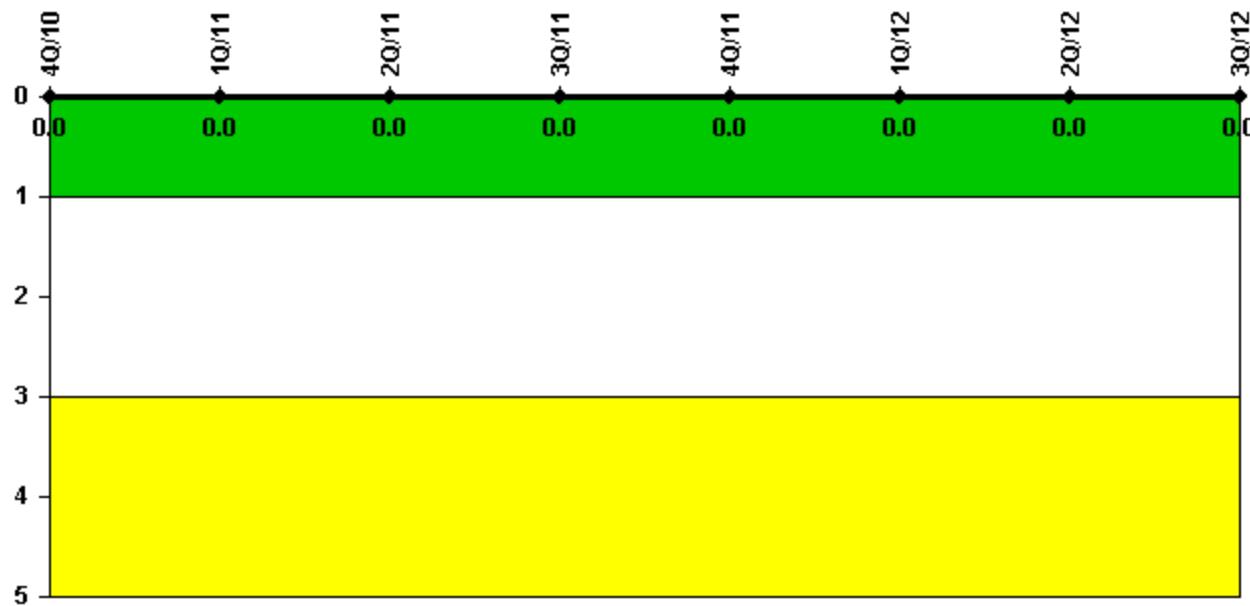
Thresholds: White > 2.0 Yellow > 5.0

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

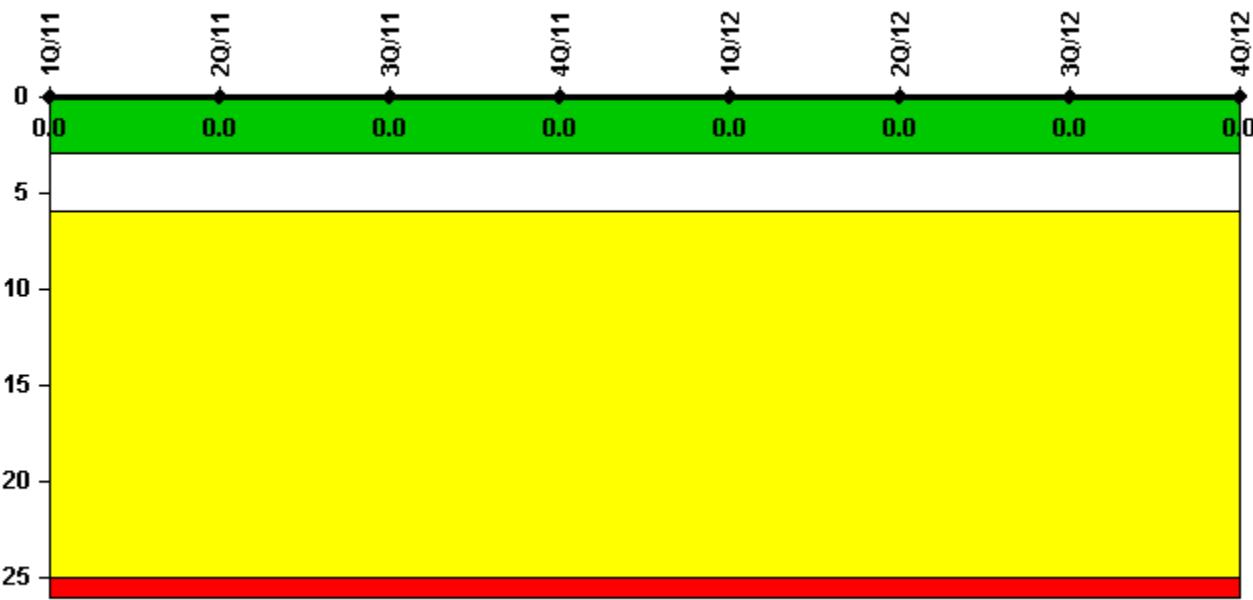
Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information 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

Calvert Cliffs 2**4Q/2012 Performance Indicators**

Licensee's General Comments: none

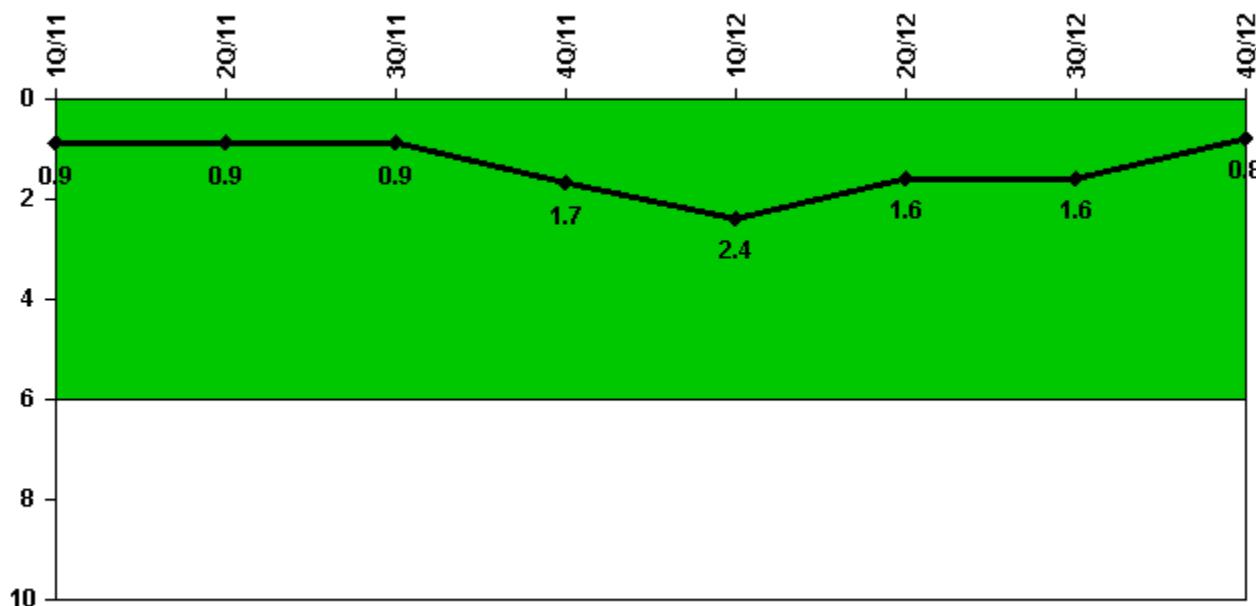
Unplanned Scrams per 7000 Critical Hrs

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	0	0	0
Critical hours	1475.6	2184.0	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0
Indicator value	0							

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

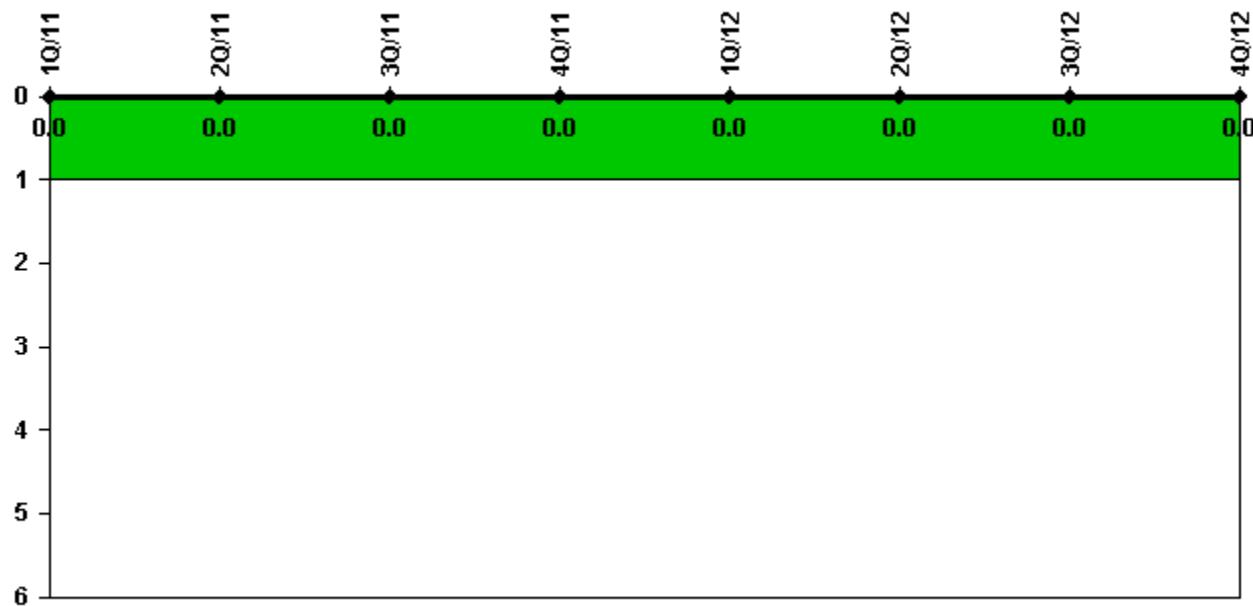
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned power changes	0	1.0	0	1.0	1.0	0	0	0
Critical hours	1475.6	2184.0	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0
Indicator value	0.9	0.9	0.9	1.7	2.4	1.6	1.6	0.8

Licensee Comments:

4Q/11: Power change occurrence selected during data entry in 11-2011 should have been "unplanned, NOT excluded per NEI 99-02" vs. incorrect selection "unplanned, excluded per NEI 99-02". Error discovered in October 2012 and corrected, CR-2012-009097 written. No thresholds or color changes were crossed as a result of including these power changes.

Unplanned Scrams with Complications

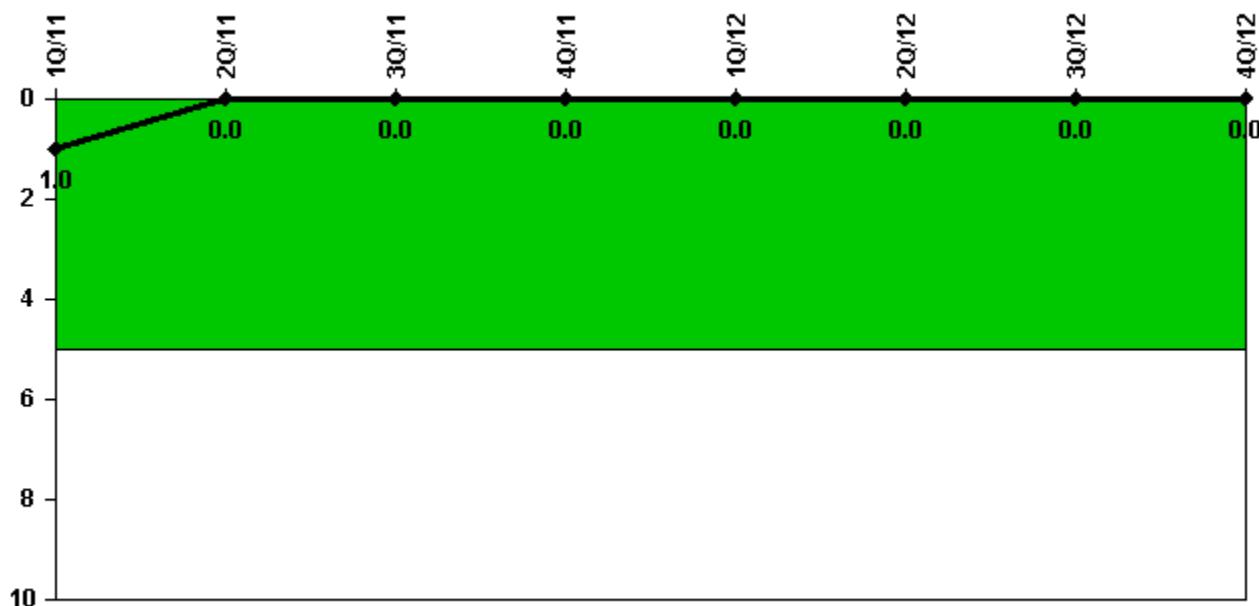
Thresholds: White > 1.0

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)

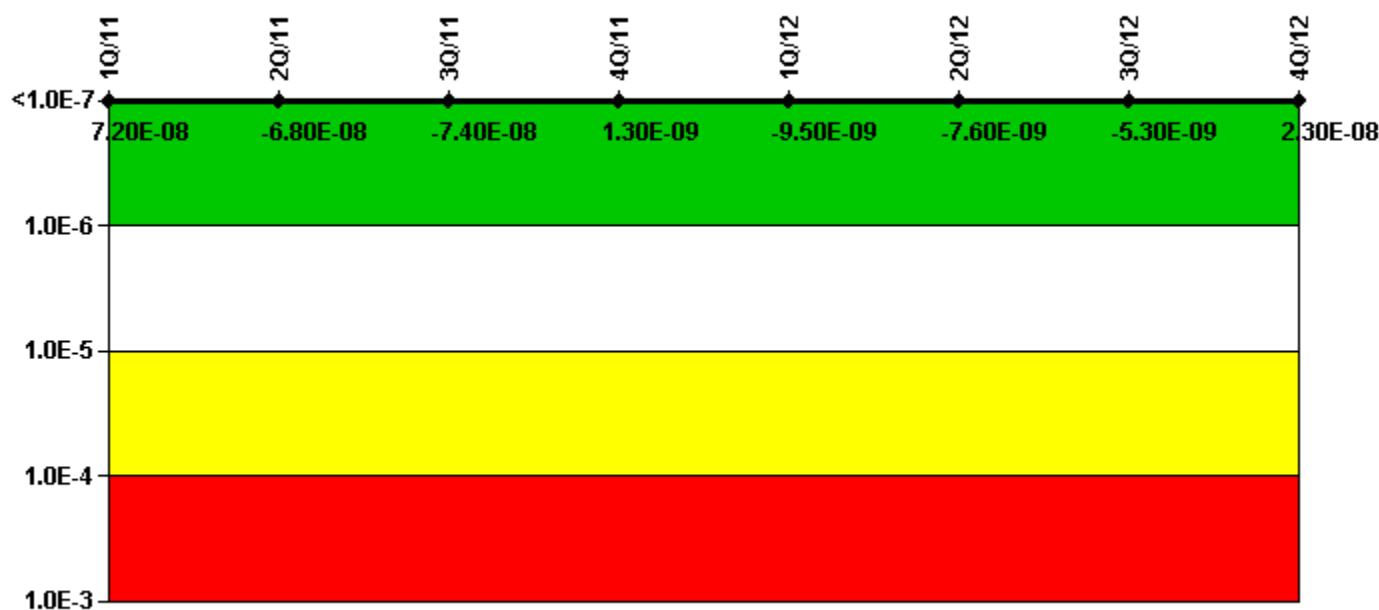


Thresholds: White > 5.0

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	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

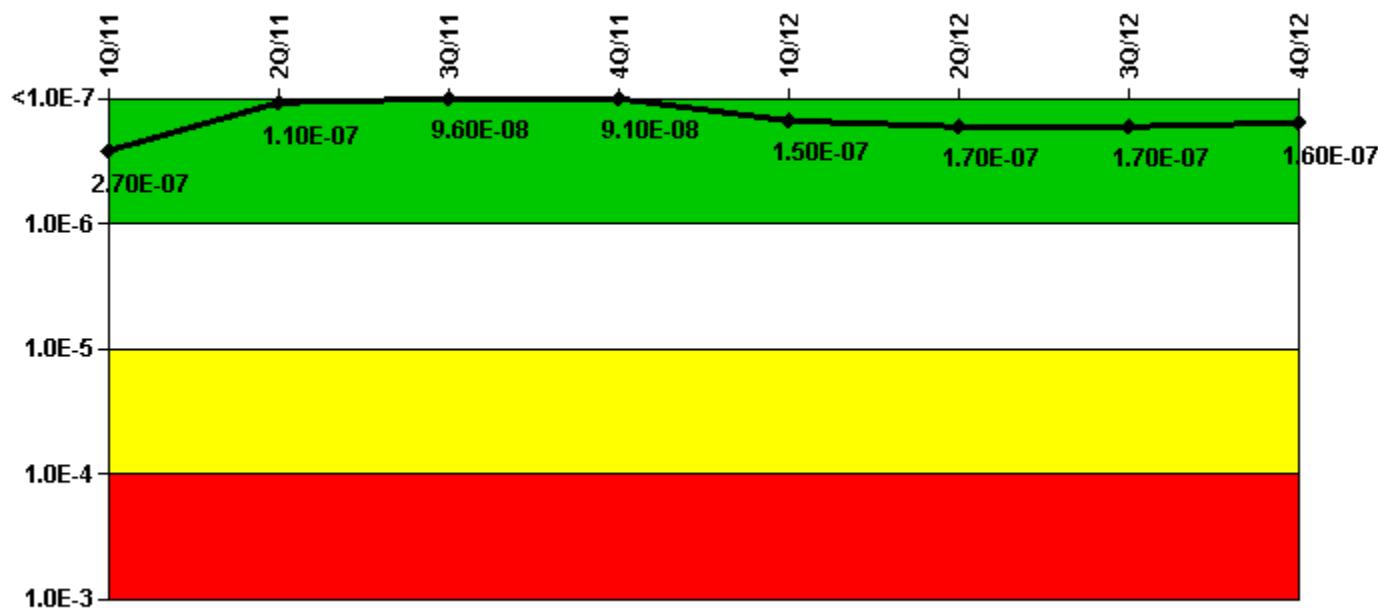
Mitigating Systems Performance Index, Emergency AC Power System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	8.65E-08	2.82E-09	-4.23E-09	8.01E-08	6.53E-08	6.53E-08	6.38E-08	8.52E-08
URI (Δ CDF)	-1.42E-08	-7.07E-08	-6.94E-08	-7.88E-08	-7.48E-08	-7.29E-08	-6.91E-08	-6.22E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.20E-08	-6.80E-08	-7.40E-08	1.30E-09	-9.50E-09	-7.60E-09	-5.30E-09	2.30E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

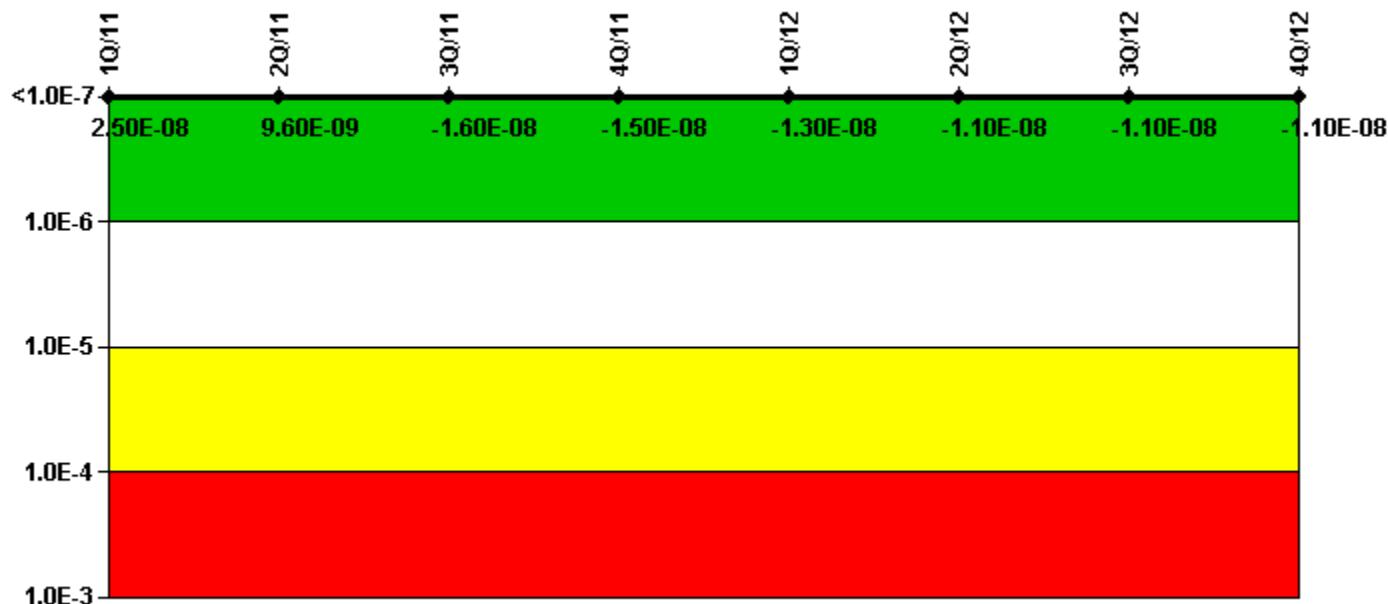
Mitigating Systems Performance Index, High Pressure Injection System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	1.33E-07	1.64E-08	5.59E-09	-8.25E-10	4.27E-08	5.53E-08	6.19E-08	4.62E-08
URI (Δ CDF)	1.33E-07	9.42E-08	9.06E-08	9.14E-08	1.09E-07	1.11E-07	1.12E-07	1.09E-07
PLE	NO							
Indicator value	2.70E-07	1.10E-07	9.60E-08	9.10E-08	1.50E-07	1.70E-07	1.70E-07	1.60E-07

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

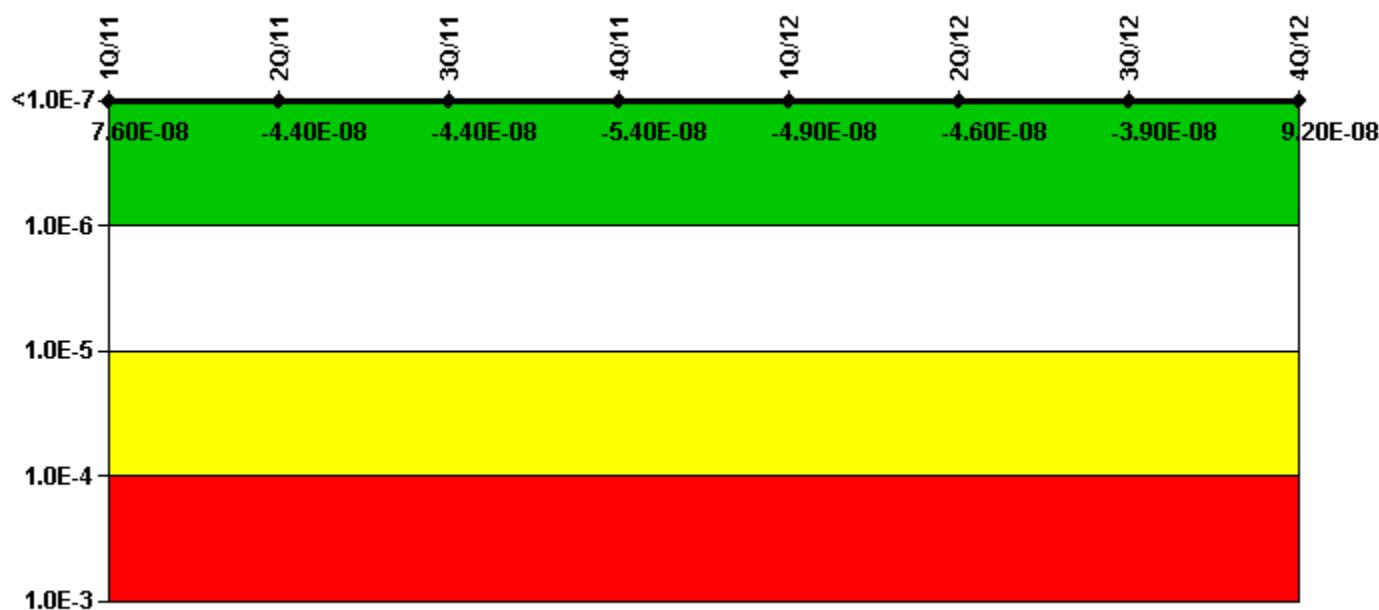
Mitigating Systems Performance Index, Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	-4.83E-09	-2.80E-09	-2.77E-09	-2.06E-09	-2.46E-09	-8.59E-10	-8.25E-10	-7.43E-10
URI (Δ CDF)	3.00E-08	1.24E-08	-1.28E-08	-1.26E-08	-1.06E-08	-1.03E-08	-1.02E-08	-1.02E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.50E-08	9.60E-09	-1.60E-08	-1.50E-08	-1.30E-08	-1.10E-08	-1.10E-08	-1.10E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

1Q/11: Changed PRA Parameter(s). Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line. 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

Mitigating Systems Performance Index, Residual Heat Removal System

Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

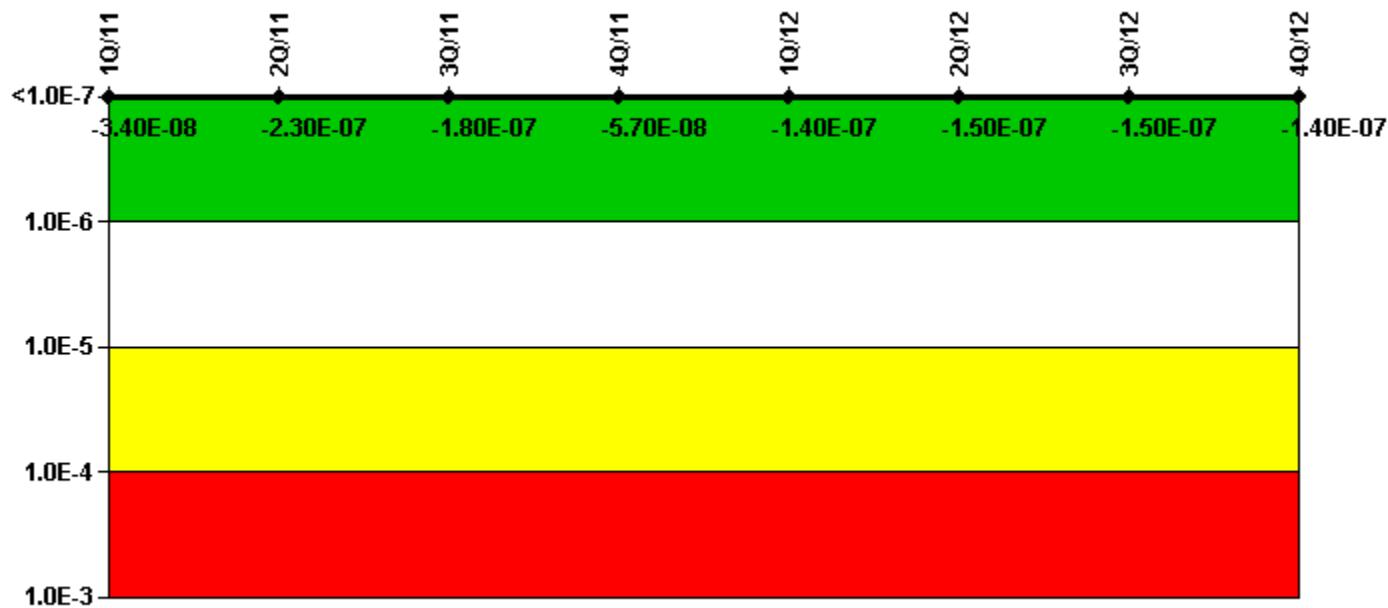
Notes

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)	7.31E-08	-4.54E-08	-4.51E-08	-5.46E-08	-4.43E-08	-4.10E-08	-3.45E-08	9.07E-08
URI (Δ CDF)	2.91E-09	9.15E-10	6.91E-10	4.25E-10	-4.61E-09	-4.62E-09	-4.47E-09	1.39E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.60E-08	-4.40E-08	-4.40E-08	-5.40E-08	-4.90E-08	-4.60E-08	-3.90E-08	9.20E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line.

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)	9.29E-08	7.52E-09	5.79E-08	1.81E-07	9.35E-08	8.44E-08	9.11E-08	9.61E-08
URI (Δ CDF)	-1.27E-07	-2.35E-07	-2.39E-07	-2.39E-07	-2.38E-07	-2.38E-07	-2.38E-07	-2.38E-07
PLE	NO							
Indicator value	-3.40E-08	-2.30E-07	-1.80E-07	-5.70E-08	-1.40E-07	-1.50E-07	-1.50E-07	-1.40E-07

Licensee Comments:

4Q/11: Two CWS2 AOVs added due to current inability to validate their exclusion during the original MSPI scoping. CR-2011-008863

2Q/11: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

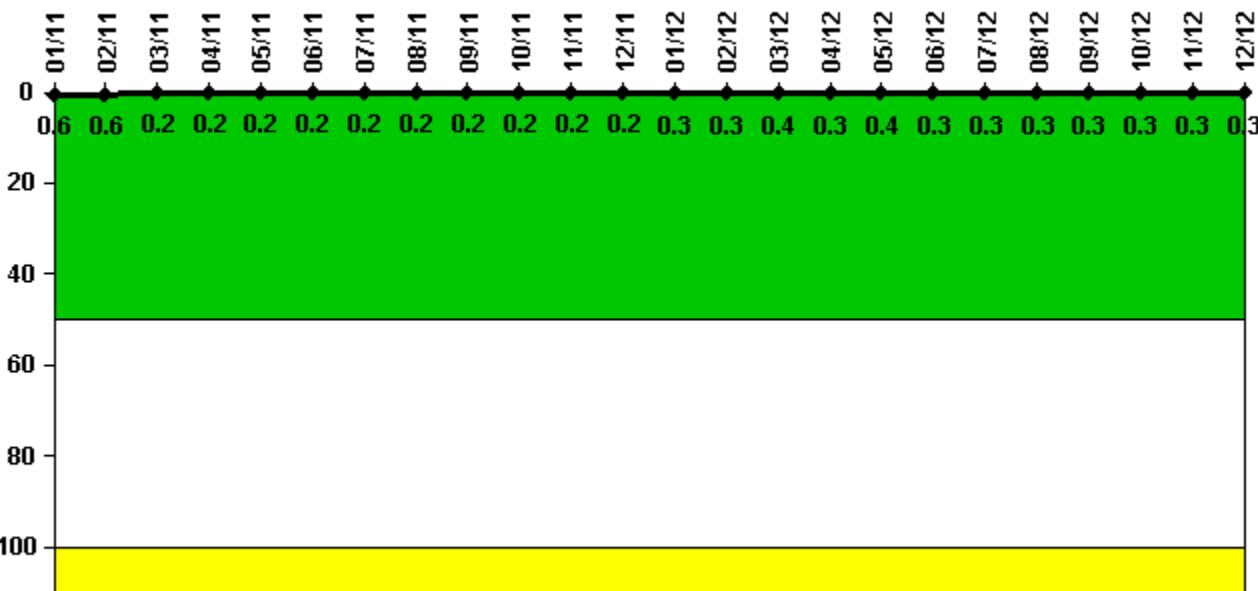
2Q/11: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

1Q/11: Revisions effective Q2 2011: PRA parameters due to model update and UA Base Lines due to change in maintenance strategy from work in outage to on-line and for preventive maintenance optimization

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Reactor Coolant System Activity



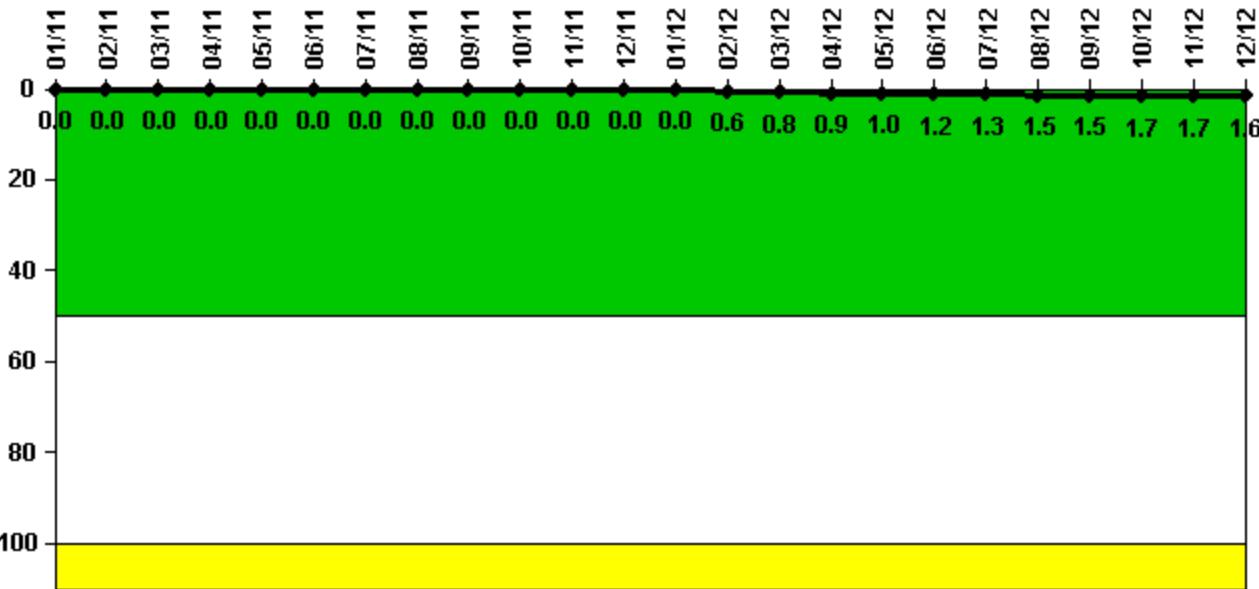
Thresholds: White > 50.0 Yellow > 100.0

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	0.003190	0.003230	0.000800	0.000863	0.000877	0.000842	0.000878	0.000956	0.001090	0.001170	0.001080	0.001240
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.6	0.6	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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	0.001270	0.001420	0.001770	0.001310	0.001780	0.001430	0.001370	0.001400	0.001460	0.001550	0.001540	0.001590
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3

Licensee Comments: none

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	0	0	0	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
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	0.060	0.080	0.090	0.100	0.120	0.130	0.150	0.150	0.170	0.170	0.160
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	0	0.6	0.8	0.9	1.0	1.2	1.3	1.5	1.5	1.7	1.7	1.6

Licensee Comments:

6/12: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

3/12: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

12/11: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

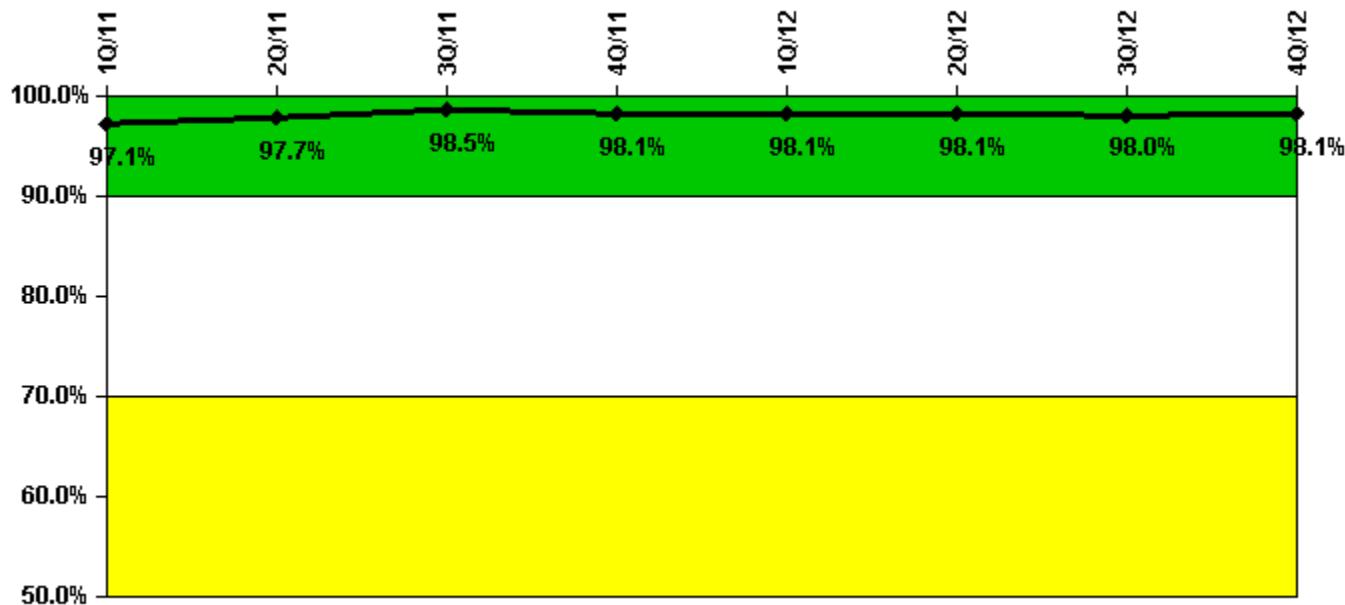
9/11: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

6/11: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

3/11: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

Drill/Exercise Performance



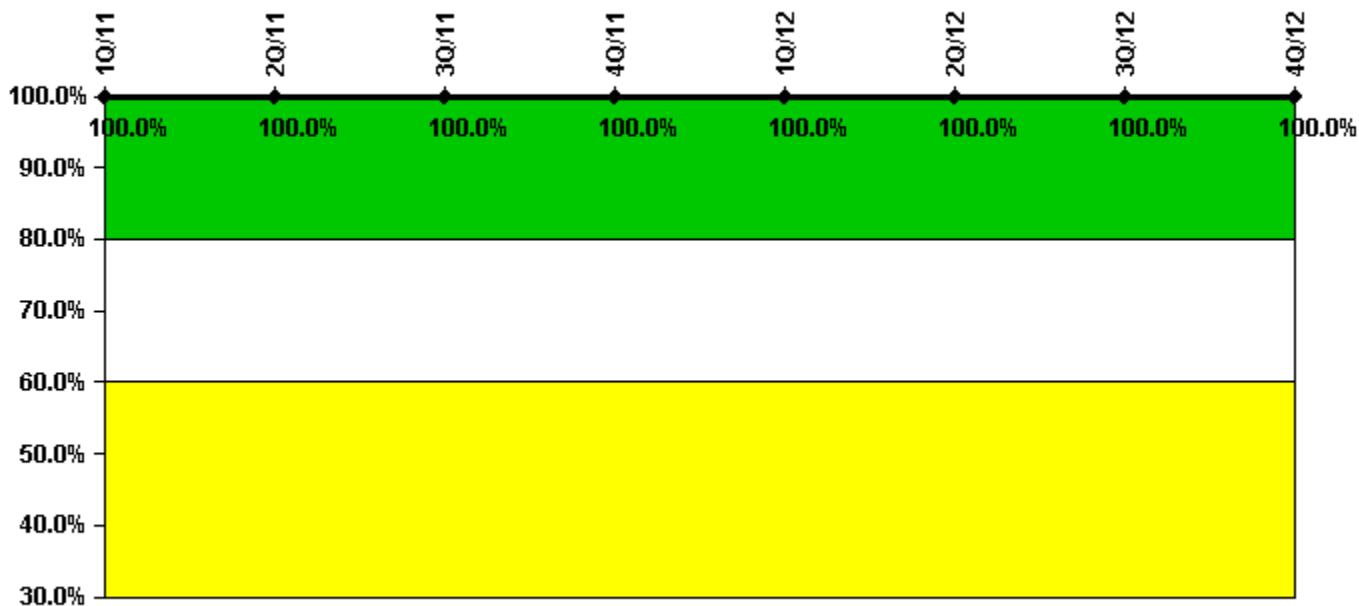
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful opportunities	4.0	58.0	30.0	55.0	5.0	25.0	12.0	67.0
Total opportunities	4.0	59.0	30.0	57.0	5.0	25.0	13.0	68.0
Indicator value	97.1%	97.7%	98.5%	98.1%	98.1%	98.1%	98.0%	98.1%

Licensee Comments:

4Q/11: CR-2012-007357: While reviewing the 10/04/2011 crew competency work sheet and initial notification form, EP found sets A.4 and A.7 were incorrect. EP removed the notification performance success from the statistics and corrected the 4Q2011 data record.

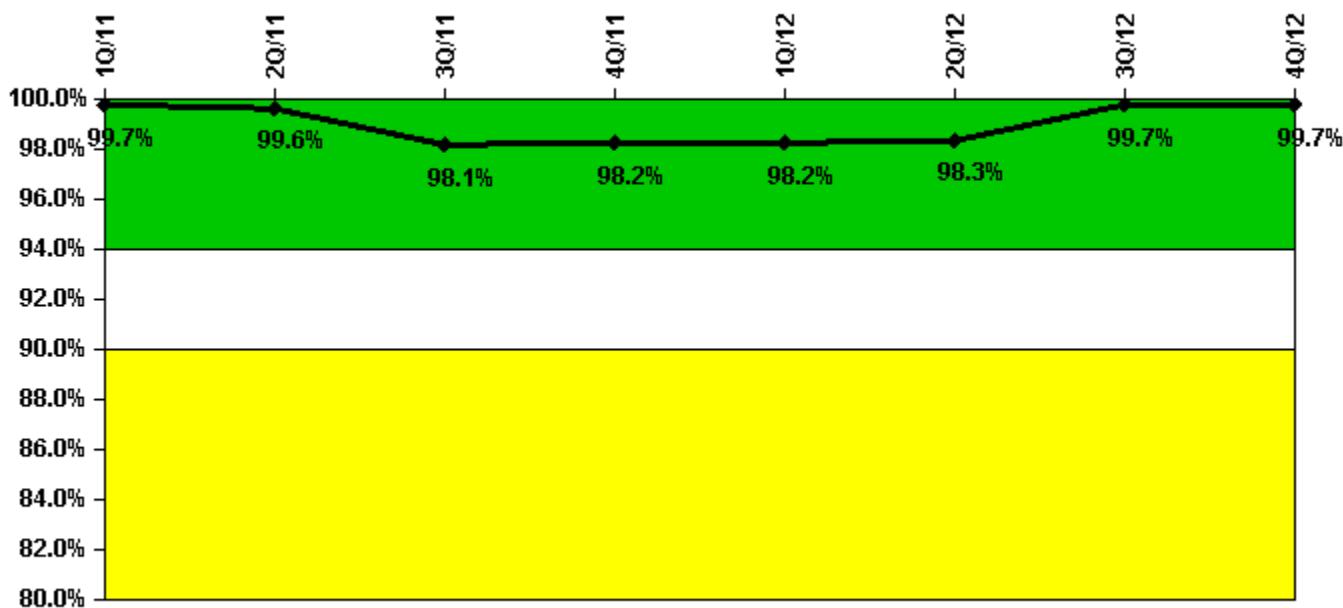
ERO Drill Participation

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	85.0	88.0	83.0	84.0	86.0	80.0	83.0	84.0
Total Key personnel	85.0	88.0	83.0	84.0	86.0	80.0	83.0	84.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

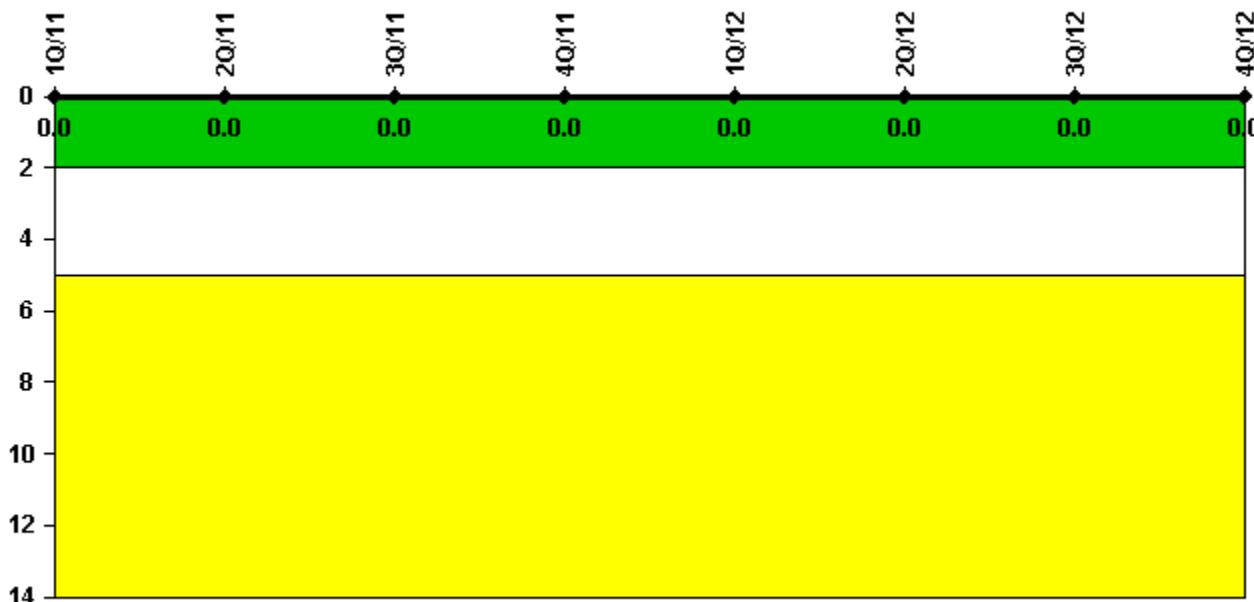
Notes

Alert & Notification System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful siren-tests	949	945	889	946	947	948	945	1016
Total sirens-tests	949	949	949	949	949	949	949	1022
Indicator value	99.7%	99.6%	98.1%	98.2%	98.2%	98.3%	99.7%	99.7%

Licensee Comments:

3Q/11: ANS test was misinterpreted and incorrectly reported in 3Q2011. The system engineer caught the error and Licensing corrected in CDE in 1Q2012. CR-2012-000541.

Occupational Exposure Control Effectiveness

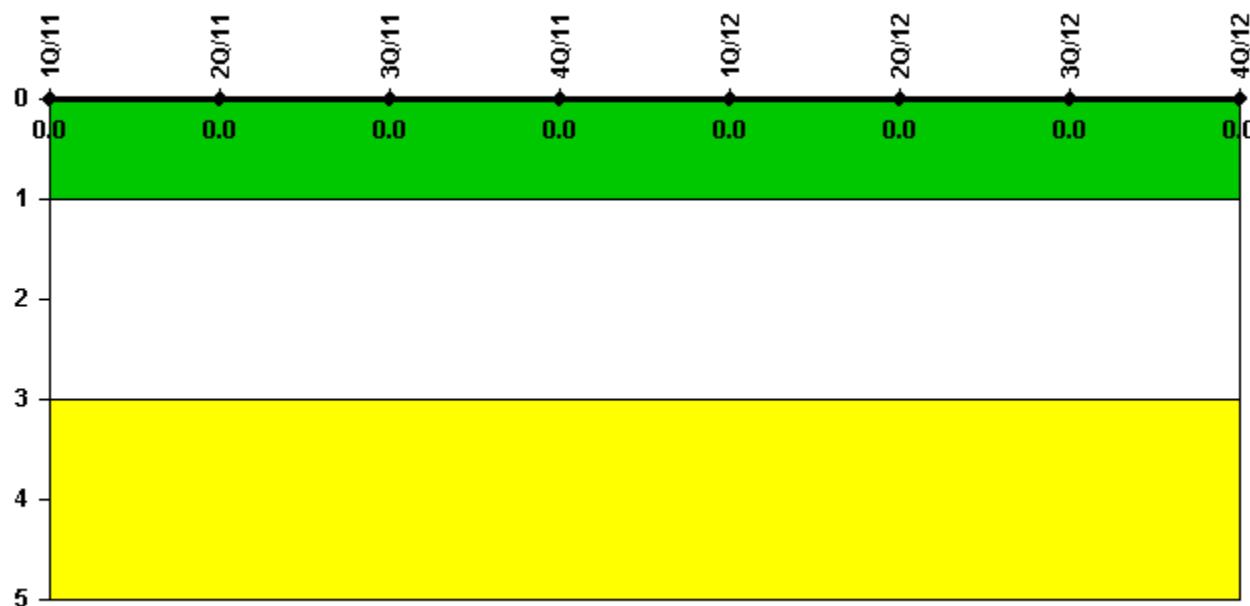


Thresholds: White > 2.0 Yellow > 5.0

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](#)

Calvert Cliffs 2

1Q/2013 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



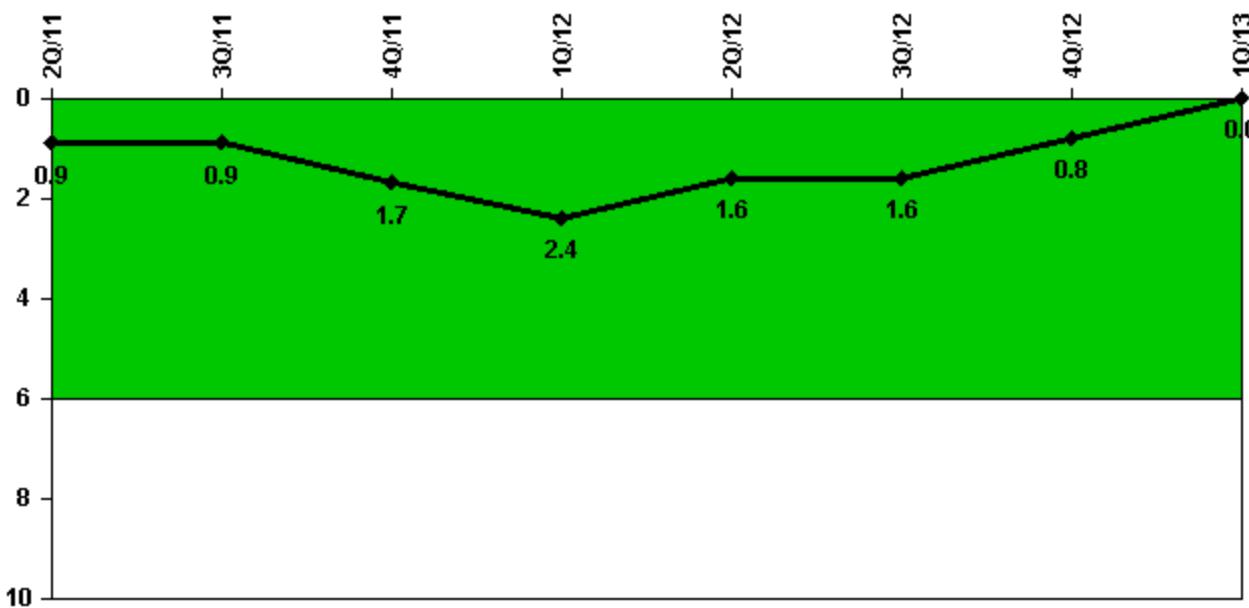
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0	1323.2
Indicator value	0							

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

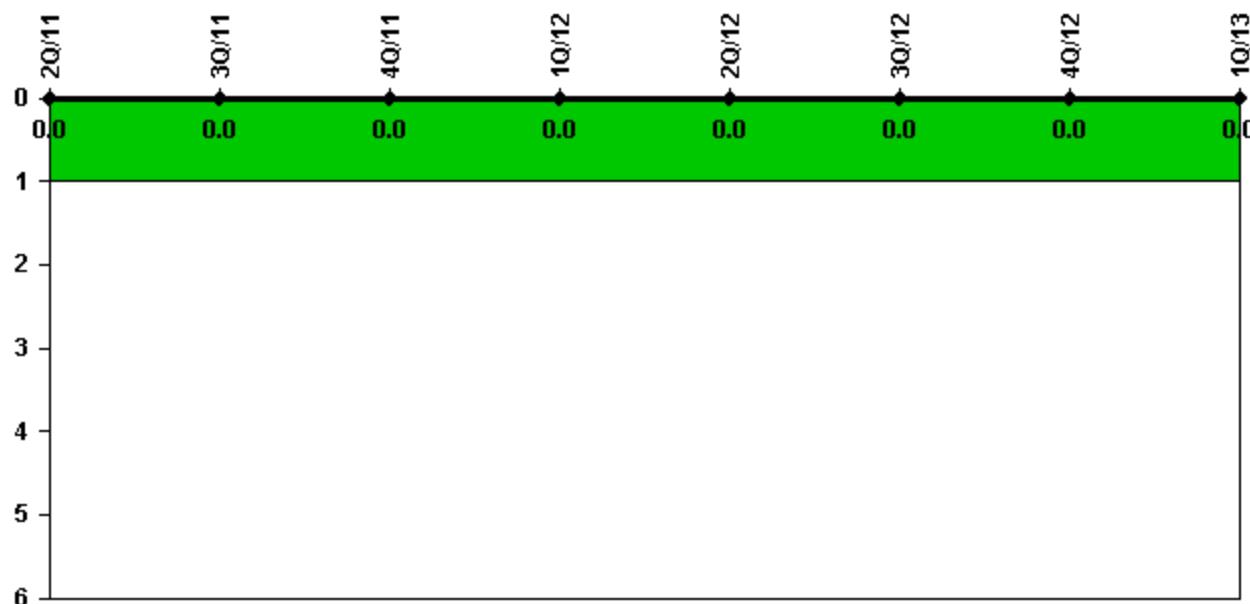
Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned power changes	1.0	0	1.0	1.0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0	1323.2
Indicator value	0.9	0.9	1.7	2.4	1.6	1.6	0.8	0

Licensee Comments:

4Q/11: Power change occurrence selected during data entry in 11-2011 should have been "unplanned, NOT excluded per NEI 99-02" vs. incorrect selection "unplanned, excluded per NEI 99-02". Error discovered in October 2012 and corrected, CR-2012-009097 written. No thresholds or color changes were crossed as a result of including these power changes.

Unplanned Scrams with Complications



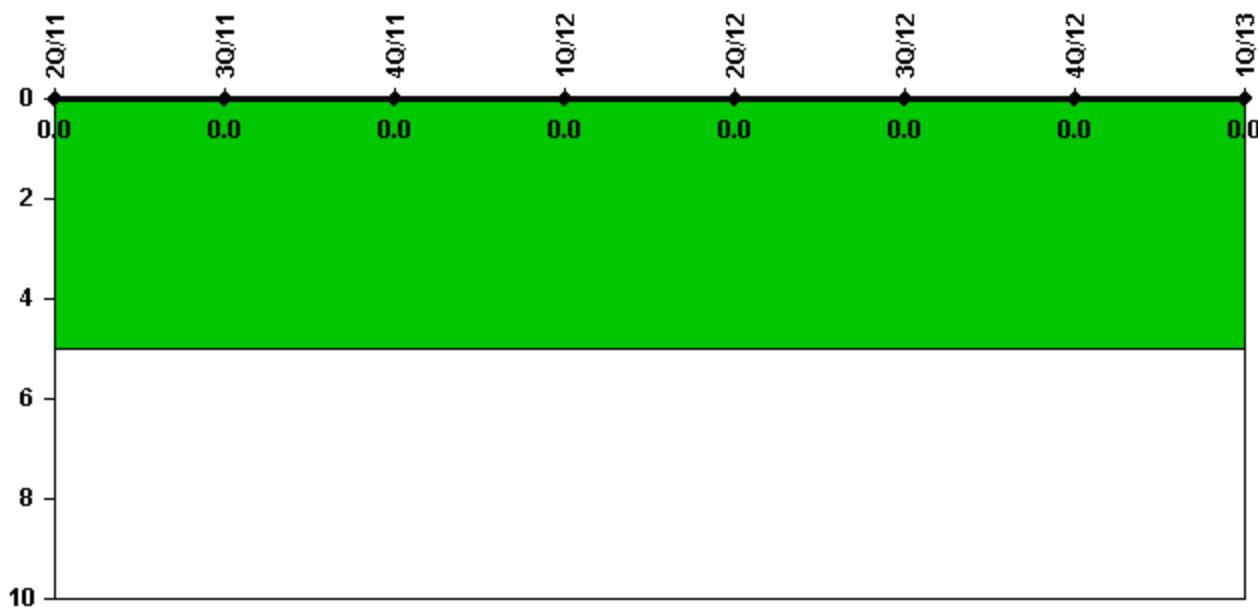
Thresholds: White > 1.0

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)



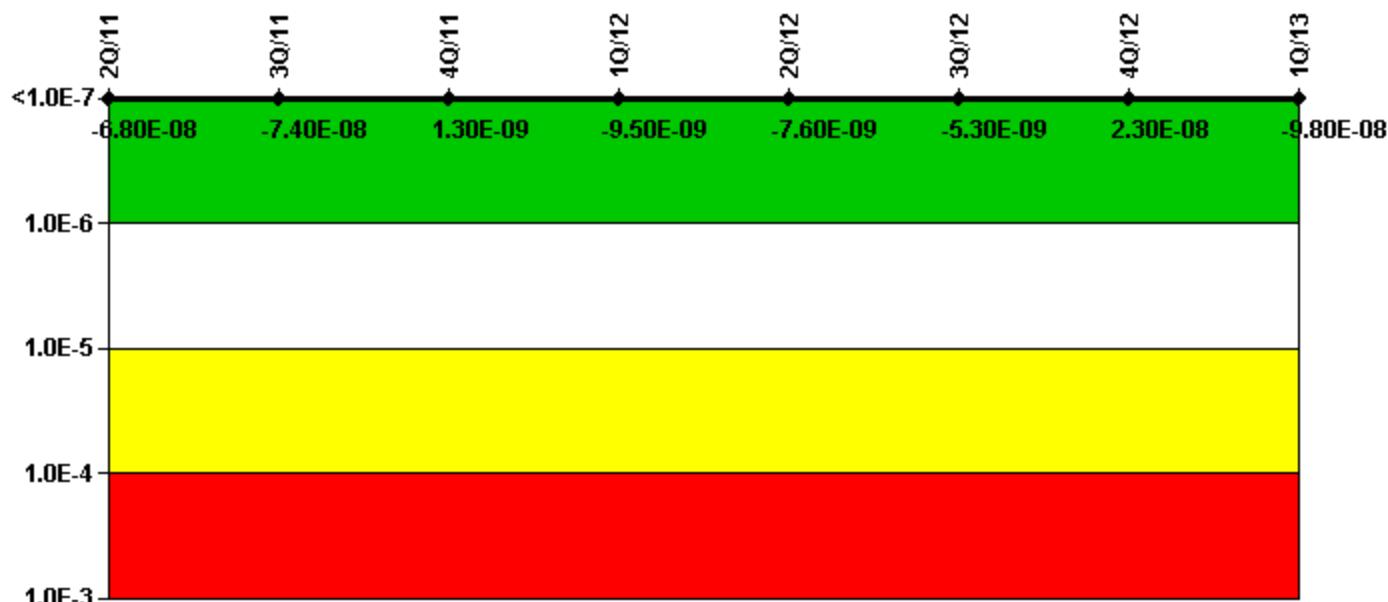
Thresholds: White > 5.0

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

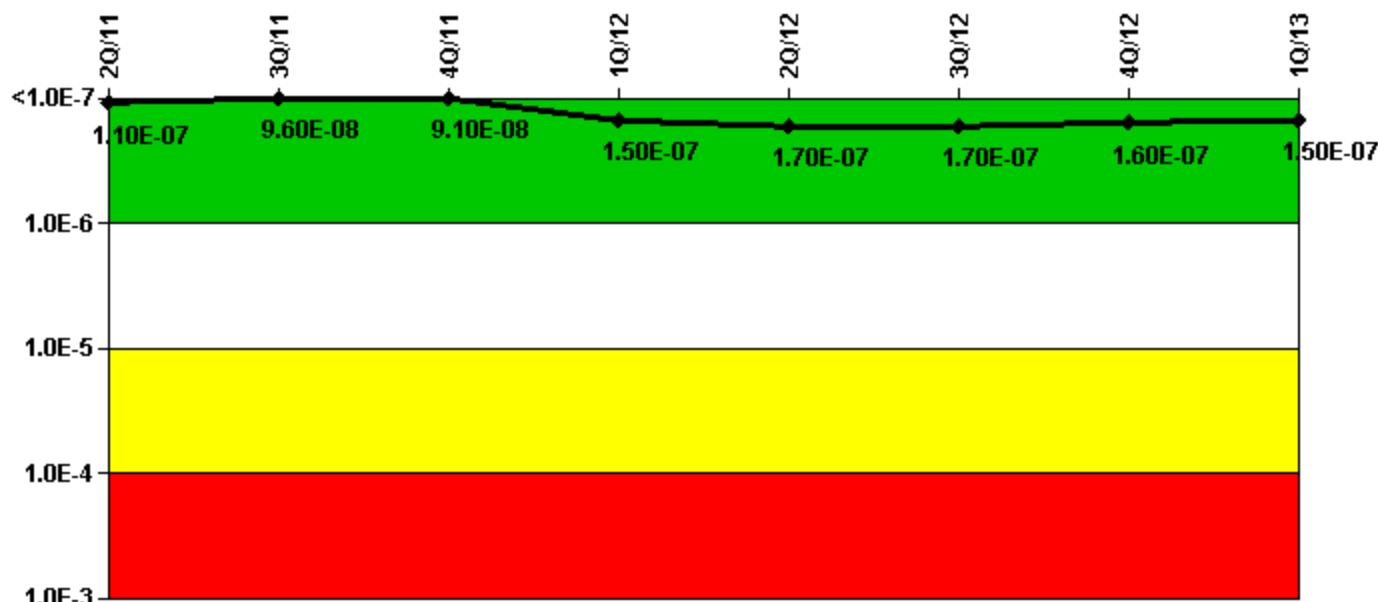
Notes

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)	2.82E-09	-4.23E-09	8.01E-08	6.53E-08	6.53E-08	6.38E-08	8.52E-08	3.93E-08
URI (Δ CDF)	-7.07E-08	-6.94E-08	-7.88E-08	-7.48E-08	-7.29E-08	-6.91E-08	-6.22E-08	-1.38E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.80E-08	-7.40E-08	1.30E-09	-9.50E-09	-7.60E-09	-5.30E-09	2.30E-08	-9.80E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

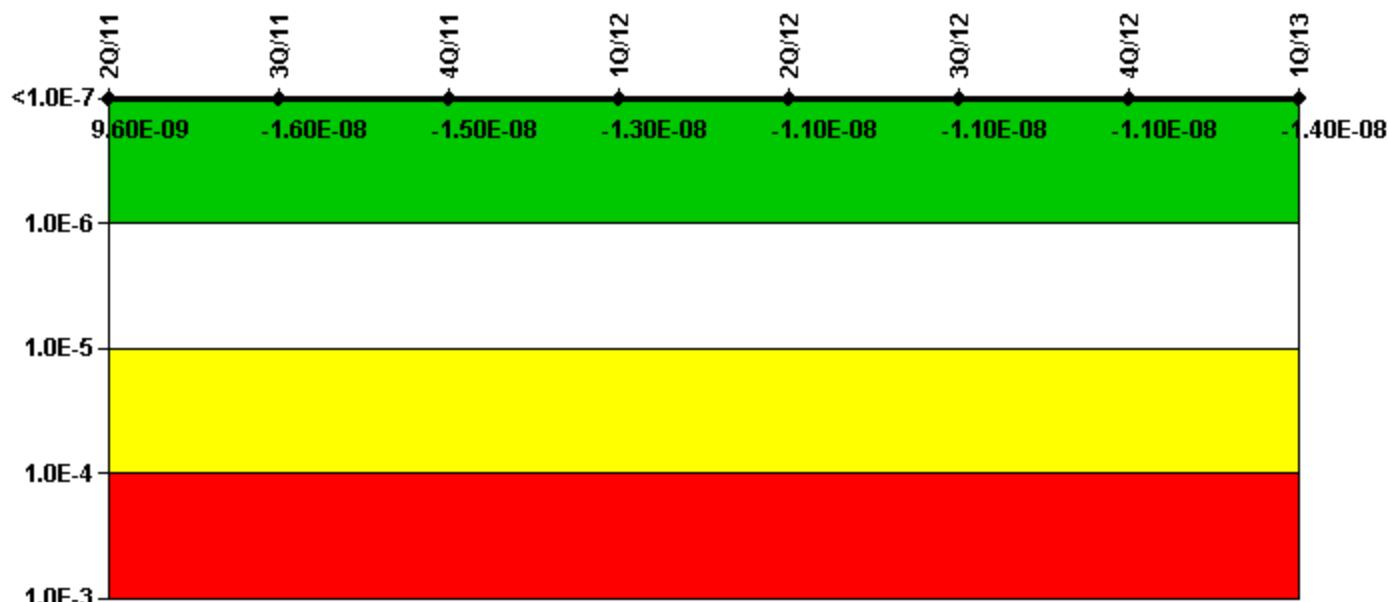
Notes

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)	1.64E-08	5.59E-09	-8.25E-10	4.27E-08	5.53E-08	6.19E-08	4.62E-08	5.50E-08
URI (Δ CDF)	9.42E-08	9.06E-08	9.14E-08	1.09E-07	1.11E-07	1.12E-07	1.09E-07	9.58E-08
PLE	NO							
Indicator value	1.10E-07	9.60E-08	9.10E-08	1.50E-07	1.70E-07	1.70E-07	1.60E-07	1.50E-07

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

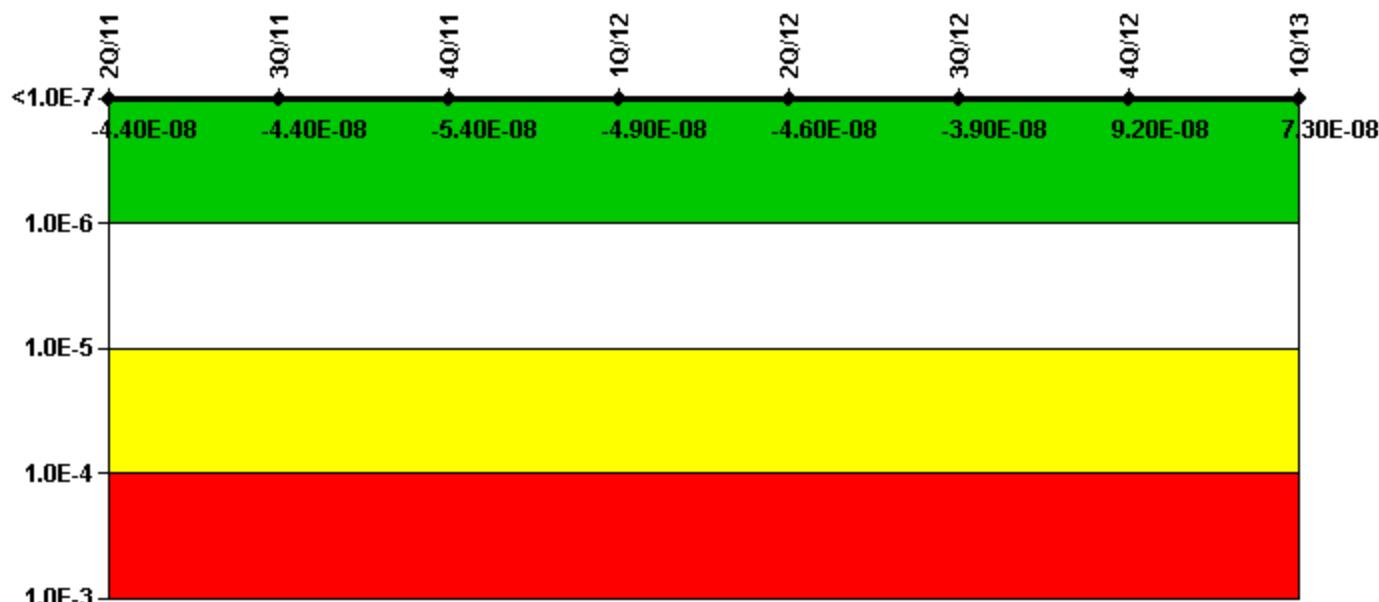
Notes

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)	-2.80E-09	-2.77E-09	-2.06E-09	-2.46E-09	-8.59E-10	-8.25E-10	-7.43E-10	-2.88E-09
URI (Δ CDF)	1.24E-08	-1.28E-08	-1.26E-08	-1.06E-08	-1.03E-08	-1.02E-08	-1.02E-08	-1.06E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.60E-09	-1.60E-08	-1.50E-08	-1.30E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.40E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Allocation of Unit cross-connect valve to affected Unit (Ref: CR-2011-008850)

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

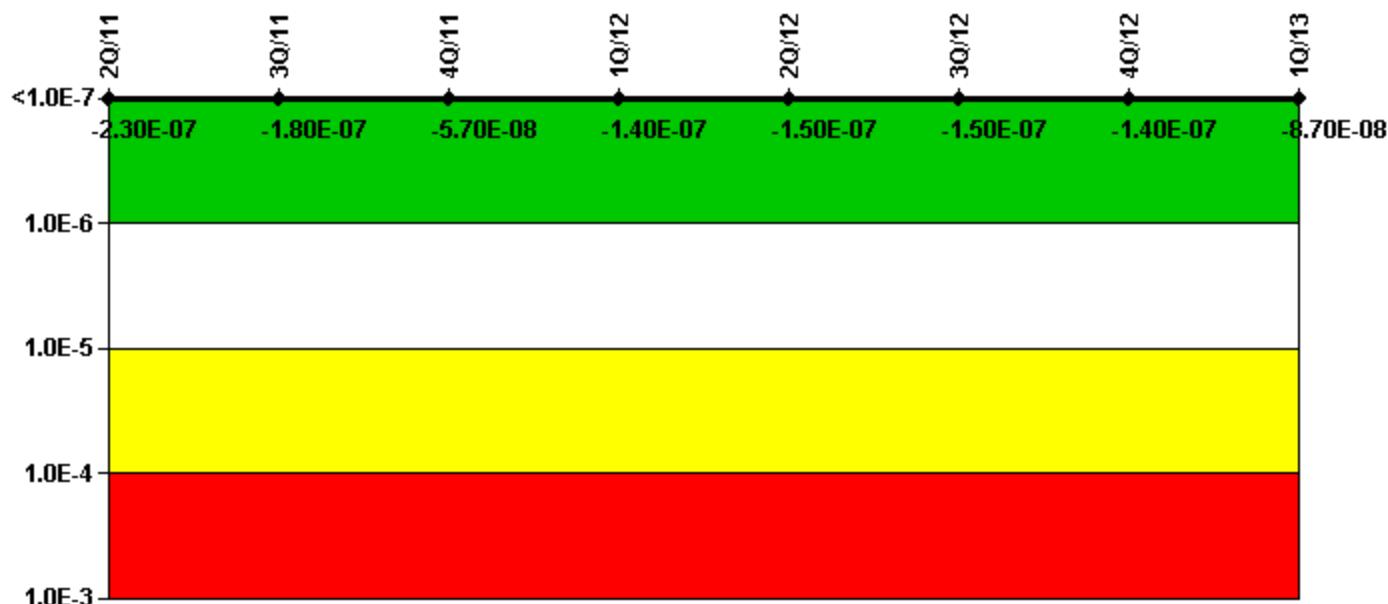
Notes

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)	-4.54E-08	-4.51E-08	-5.46E-08	-4.43E-08	-4.10E-08	-3.45E-08	9.07E-08	7.29E-08
URI (Δ CDF)	9.15E-10	6.91E-10	4.25E-10	-4.61E-09	-4.62E-09	-4.47E-09	1.39E-09	-1.28E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.40E-08	-4.40E-08	-5.40E-08	-4.90E-08	-4.60E-08	-3.90E-08	9.20E-08	7.30E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). 10-11-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated PRA model data in March 2011 (Ref: CR-2011-008850)

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)	7.52E-09	5.79E-08	1.81E-07	9.35E-08	8.44E-08	9.11E-08	9.61E-08	1.51E-07
URI (Δ CDF)	-2.35E-07	-2.39E-07	-2.39E-07	-2.38E-07	-2.38E-07	-2.38E-07	-2.38E-07	-2.38E-07
PLE	NO							
Indicator value	-2.30E-07	-1.80E-07	-5.70E-08	-1.40E-07	-1.50E-07	-1.50E-07	-1.40E-07	-8.70E-08

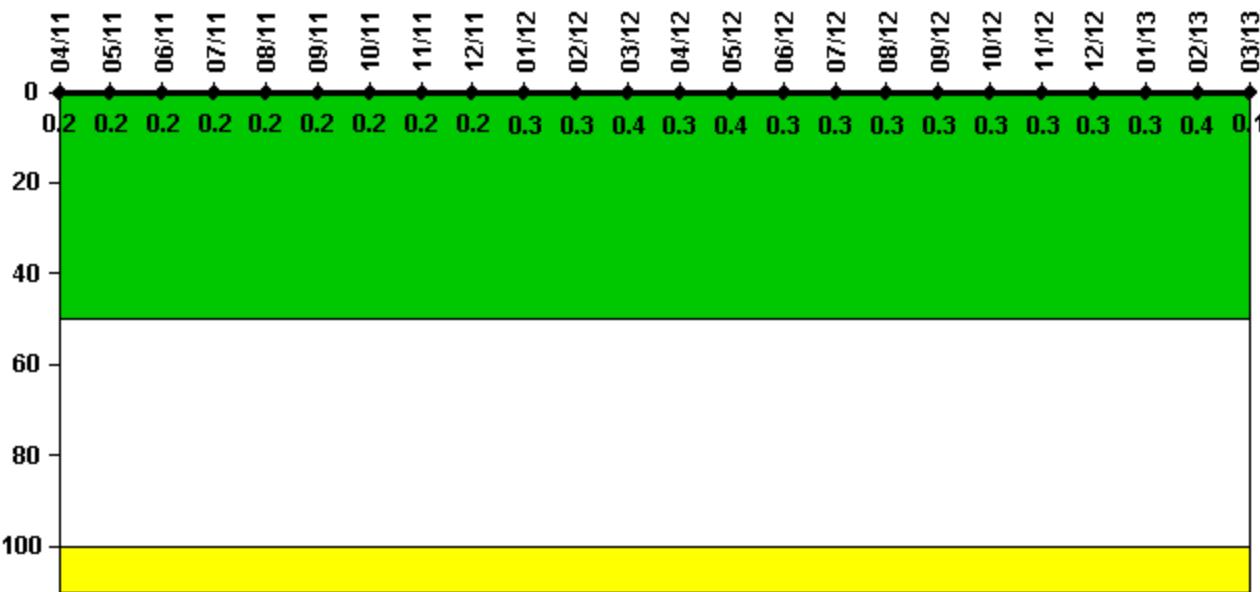
Licensee Comments:

4Q/11: Two CWS2 AOVs added due to current inability to validate their exclusion during the original MSPI scoping. CR-2011-008863

2Q/11: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

2Q/11: 10-12-11: Correction to PRA and planned baseline unavailability data due to errors made when entering updated RPA model data in March 2011 (Ref: CR-2011-008850)

Reactor Coolant System Activity



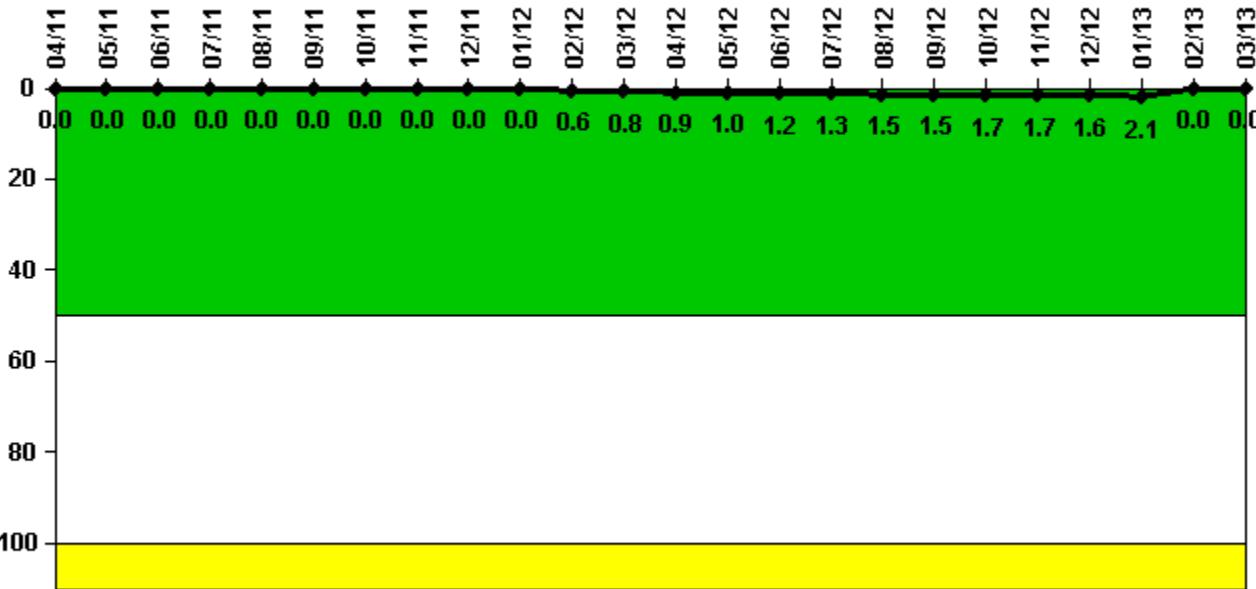
Thresholds: White > 50.0 Yellow > 100.0

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	0.000863	0.000877	0.000842	0.000878	0.000956	0.001090	0.001170	0.001080	0.001240	0.001270	0.001420	0.001770
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4
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	0.001310	0.001780	0.001430	0.001370	0.001400	0.001460	0.001550	0.001540	0.001590	0.001660	0.001760	0.000316
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.1

Licensee Comments: none

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	0	0	0	0	0	0	0	0	0	0.060	0.080
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	0	0.6	0.8									
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	0.090	0.100	0.120	0.130	0.150	0.150	0.170	0.170	0.160	0.210	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	0.9	1.0	1.2	1.3	1.5	1.5	1.7	1.7	1.6	2.1	0	0

Licensee Comments:

6/12: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

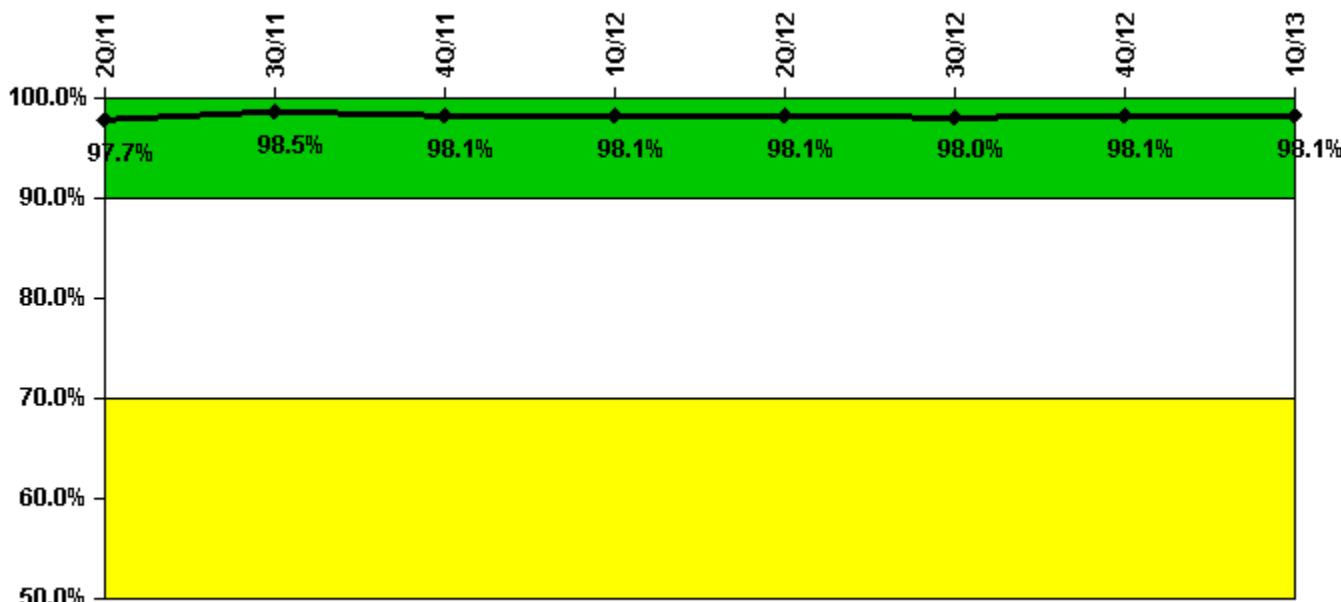
3/12: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

12/11: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

9/11: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

6/11: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

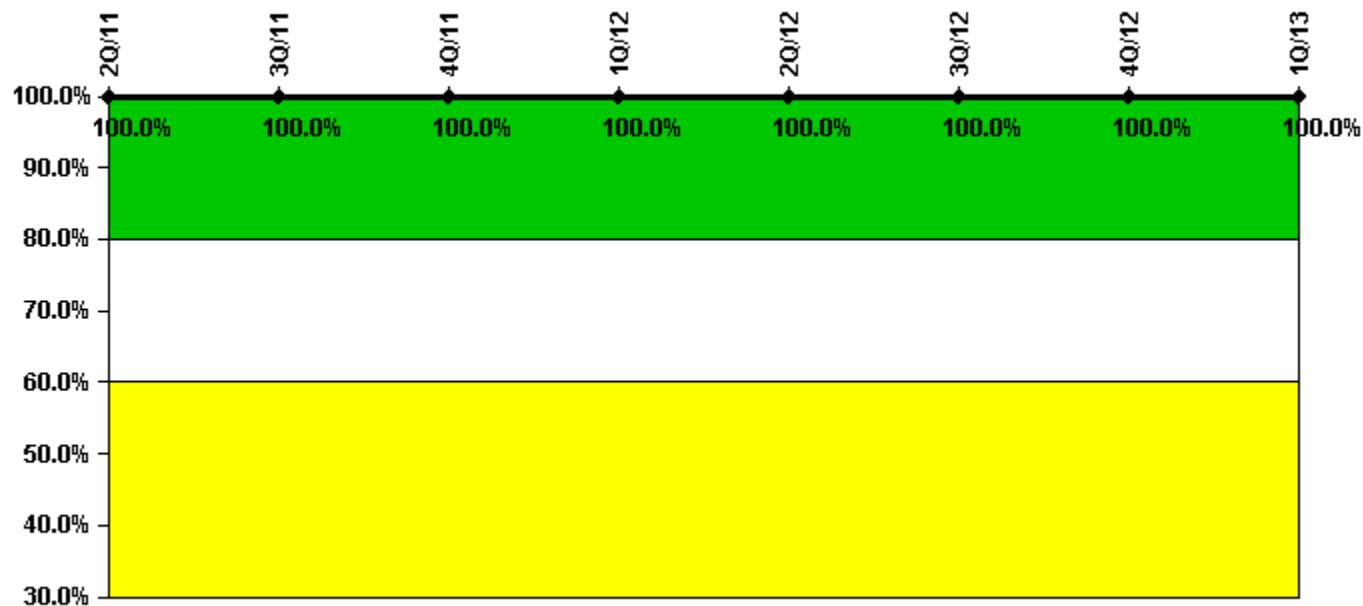
Notes

Drill/Exercise Performance	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful opportunities	58.0	30.0	55.0	5.0	25.0	12.0	67.0	2.0
Total opportunities	59.0	30.0	57.0	5.0	25.0	13.0	68.0	2.0
Indicator value	97.7%	98.5%	98.1%	98.1%	98.1%	98.0%	98.1%	98.1%

Licensee Comments:

4Q/11: CR-2012-007357: While reviewing the 10/04/2011 crew competency work sheet and initial notification form, EP found sets A.4 and A.7 were incorrect. EP removed the notification performance success from the statistics and corrected the 4Q2011 data record.

ERO Drill Participation



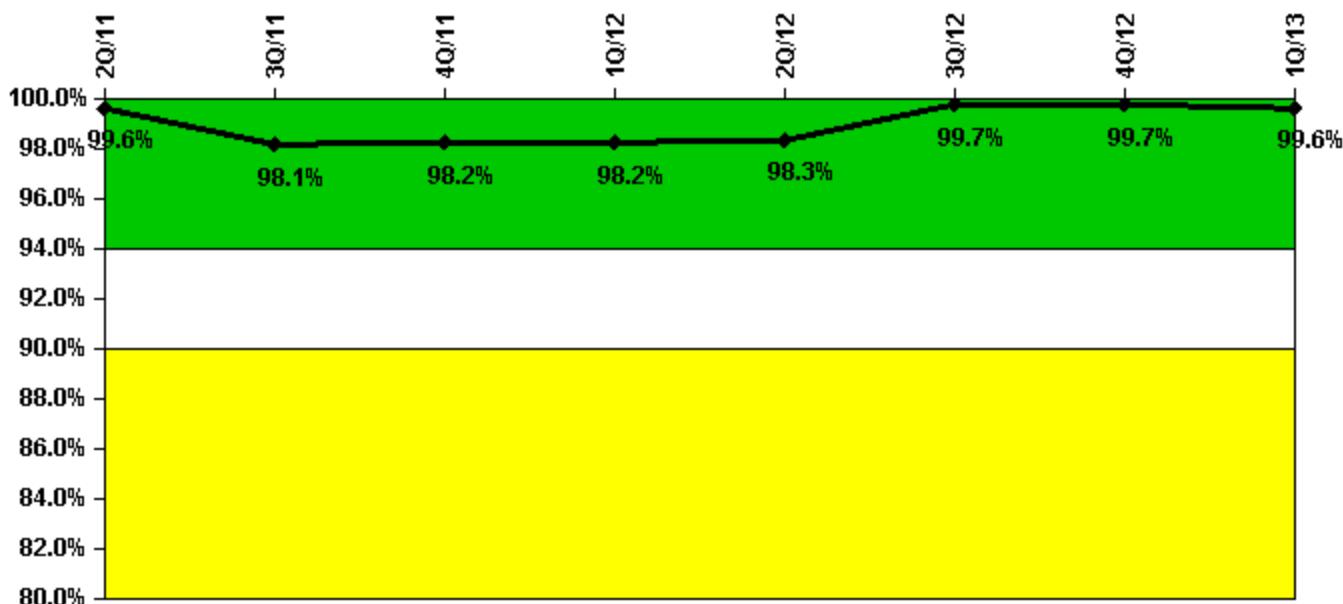
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Participating Key personnel	88.0	83.0	84.0	86.0	80.0	83.0	84.0	79.0
Total Key personnel	88.0	83.0	84.0	86.0	80.0	83.0	84.0	79.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

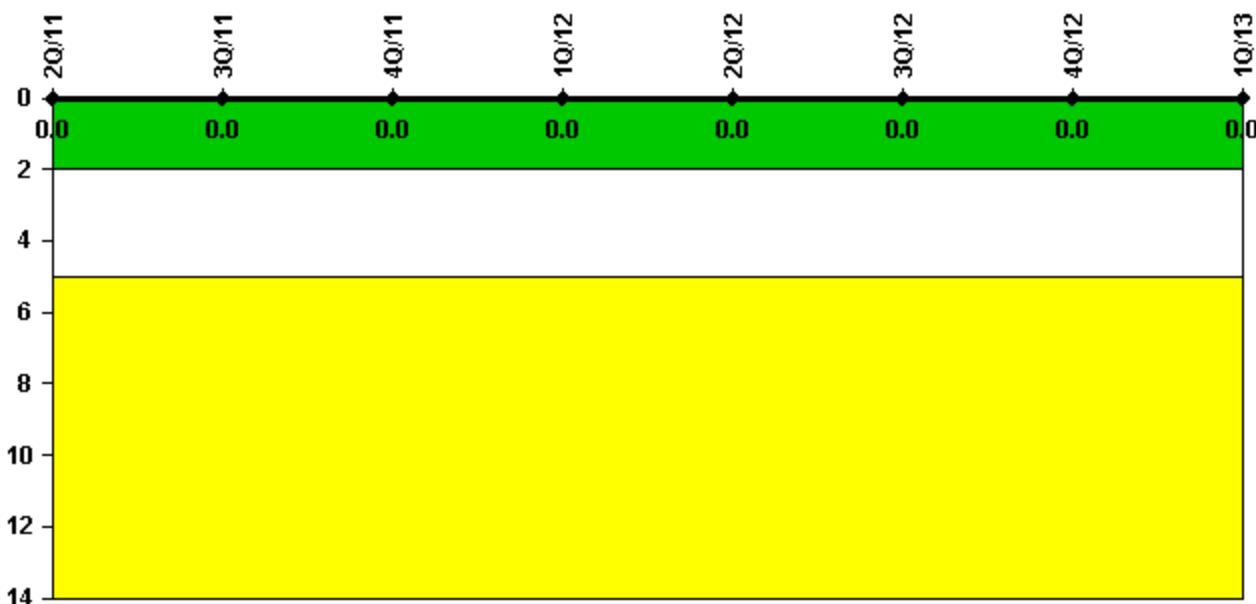
Notes

Alert & Notification System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful siren-tests	945	889	946	947	948	945	1016	871
Total sirens-tests	949	949	949	949	949	949	1022	876
Indicator value	99.6%	98.1%	98.2%	98.2%	98.3%	99.7%	99.7%	99.6%

Licensee Comments:

3Q/11: ANS test was misinterpreted and incorrectly reported in 3Q2011. The system engineer caught the error and Licensing corrected in CDE in 1Q2012. CR-2012-000541.

Occupational Exposure Control Effectiveness



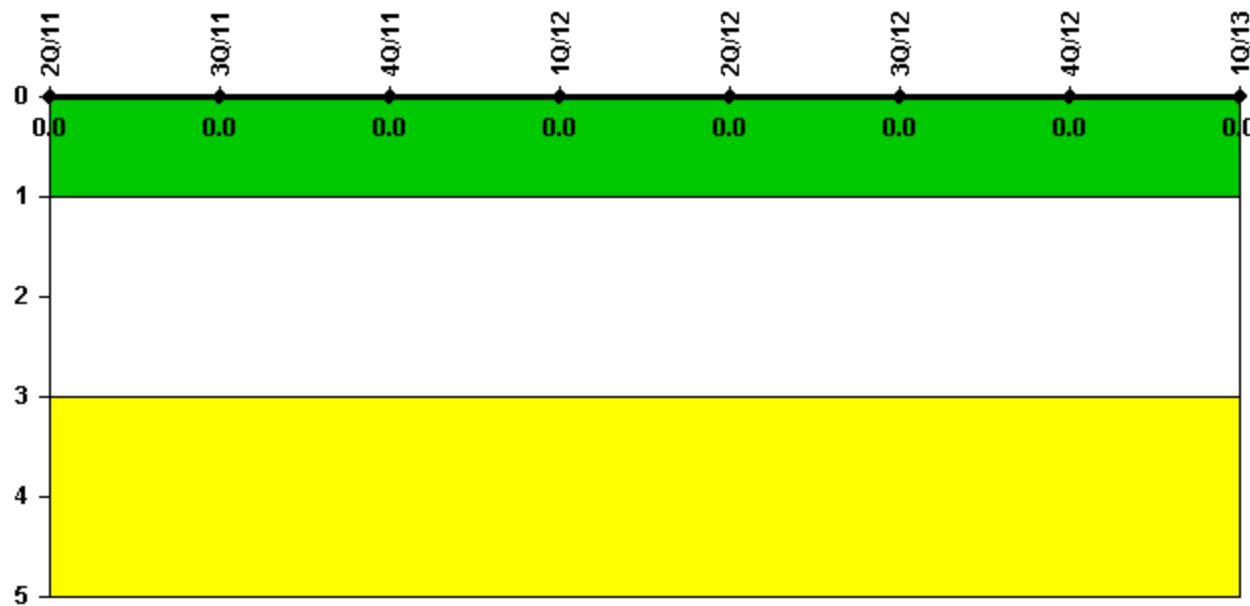
Thresholds: White > 2.0 Yellow > 5.0

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

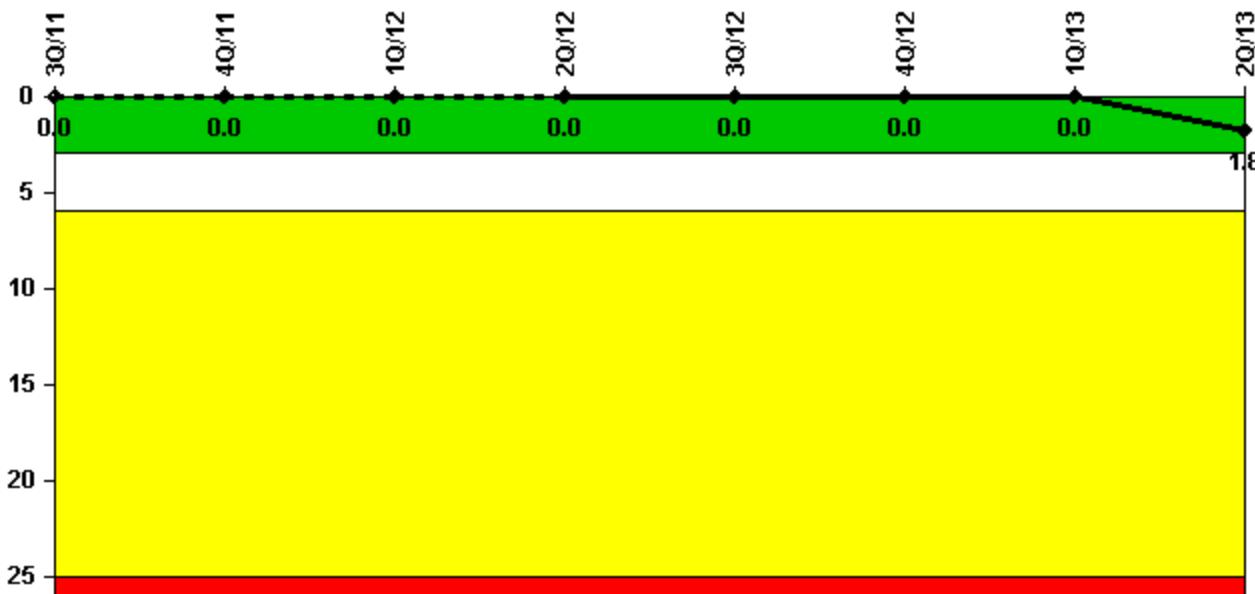
Calvert Cliffs 2

2Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



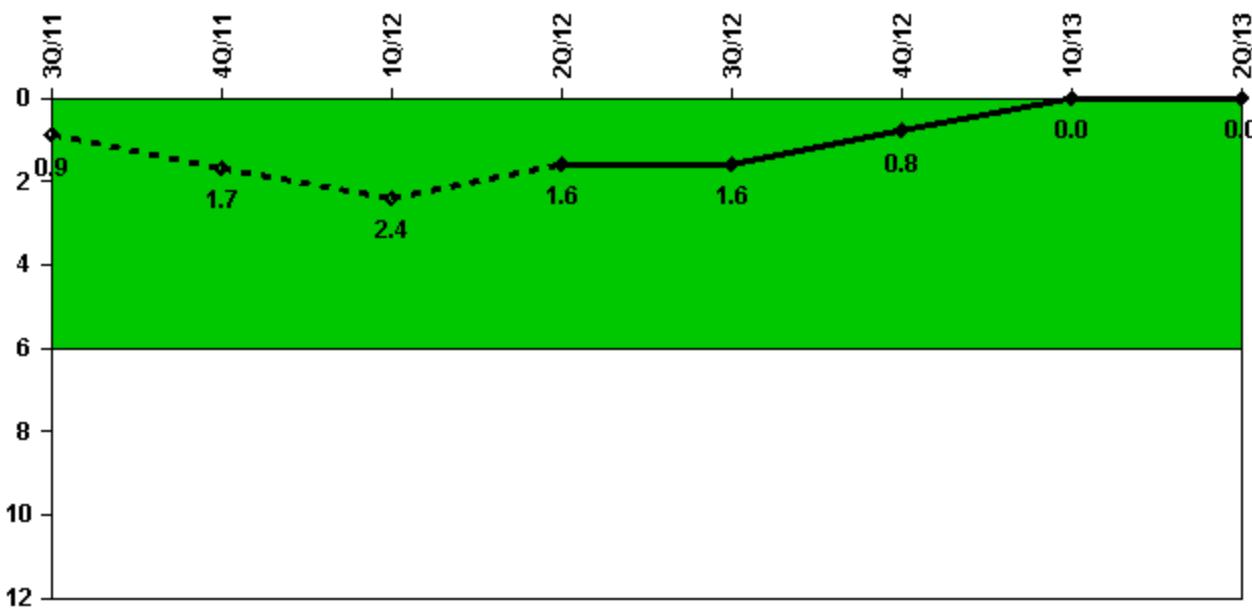
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	2.0
Critical hours	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0	1323.2	2076.8
Indicator value	0	1.8						

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



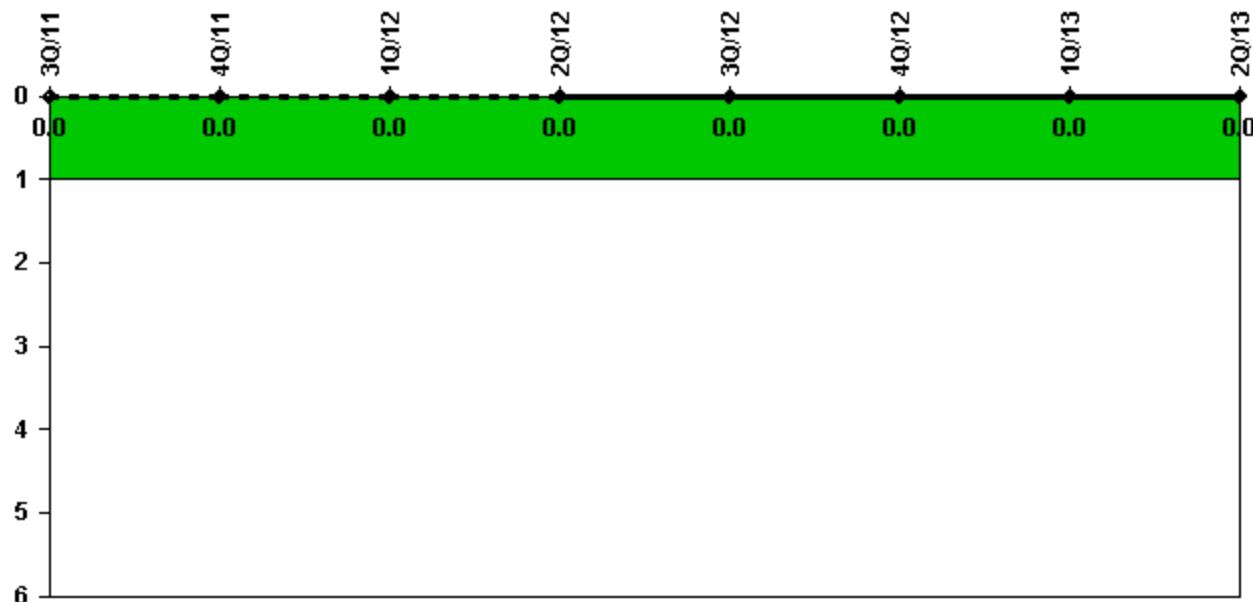
Thresholds: White > 6.0

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	1.0	1.0	0	0	0	0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	2208.0	2209.0	1323.2	2076.8
Indicator value	0.9	1.7	2.4	1.6	1.6	0.8	0	0

Licensee Comments:

4Q/11: Power change occurrence selected during data entry in 11-2011 should have been "unplanned, NOT excluded per NEI 99-02" vs. incorrect selection "unplanned, excluded per NEI 99-02". Error discovered in October 2012 and corrected, CR-2012-009097 written. No thresholds or color changes were crossed as a result of including these power changes.

Unplanned Scrams with Complications

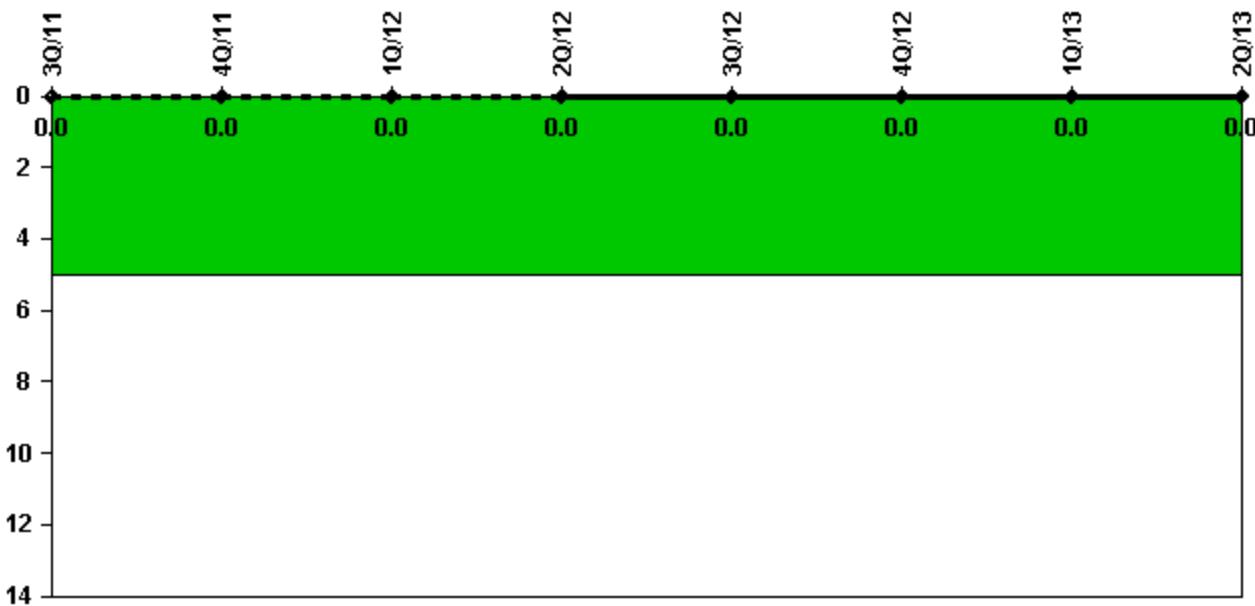
Thresholds: White > 1.0

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)



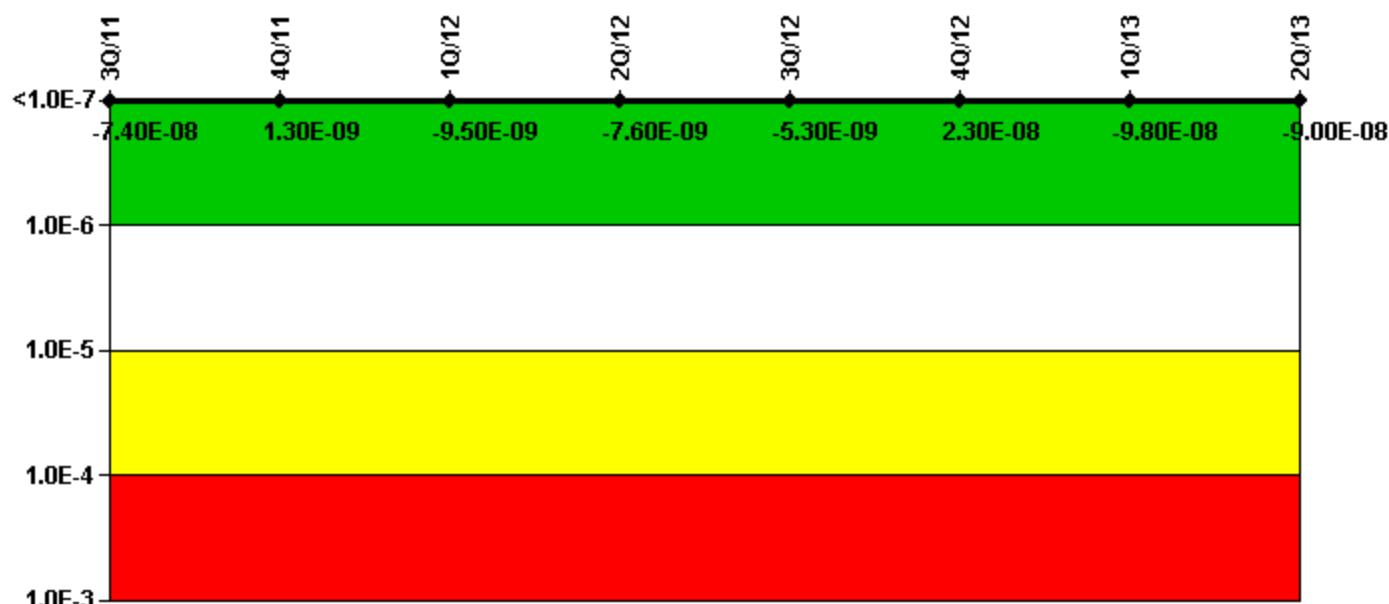
Thresholds: White > 5.0

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



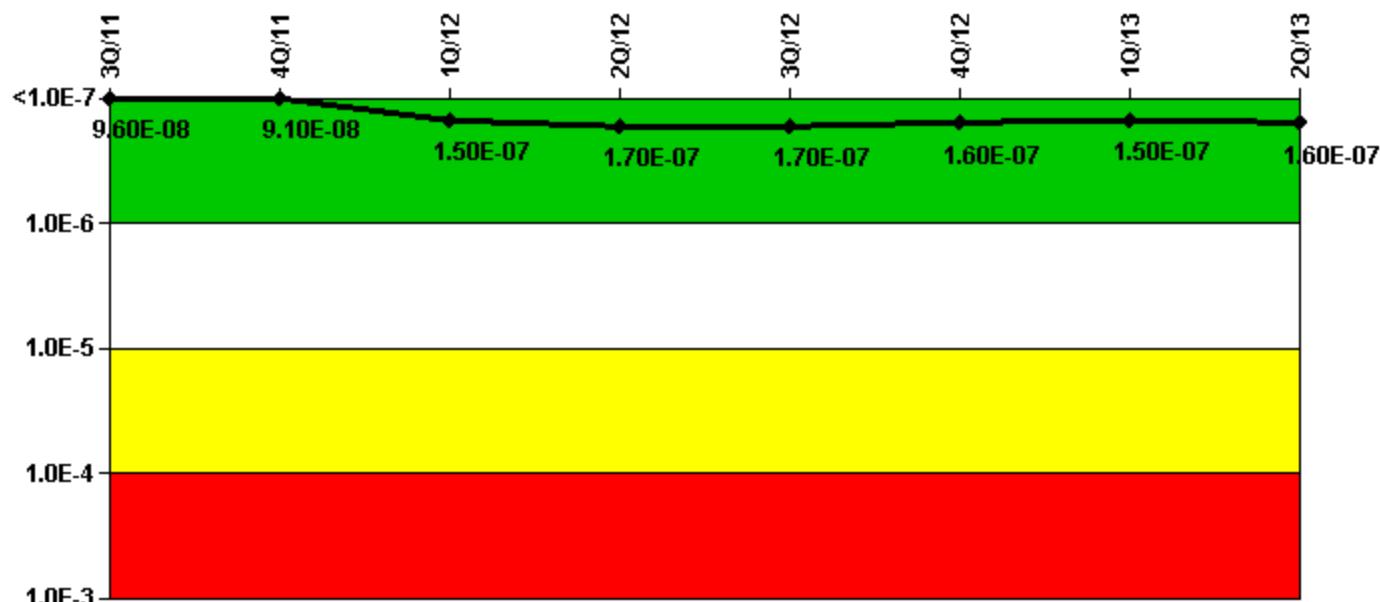
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-4.23E-09	8.01E-08	6.53E-08	6.53E-08	6.38E-08	8.52E-08	3.93E-08	4.49E-08
URI (Δ CDF)	-6.94E-08	-7.88E-08	-7.48E-08	-7.29E-08	-6.91E-08	-6.22E-08	-1.38E-07	-1.35E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.40E-08	1.30E-09	-9.50E-09	-7.60E-09	-5.30E-09	2.30E-08	-9.80E-08	-9.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



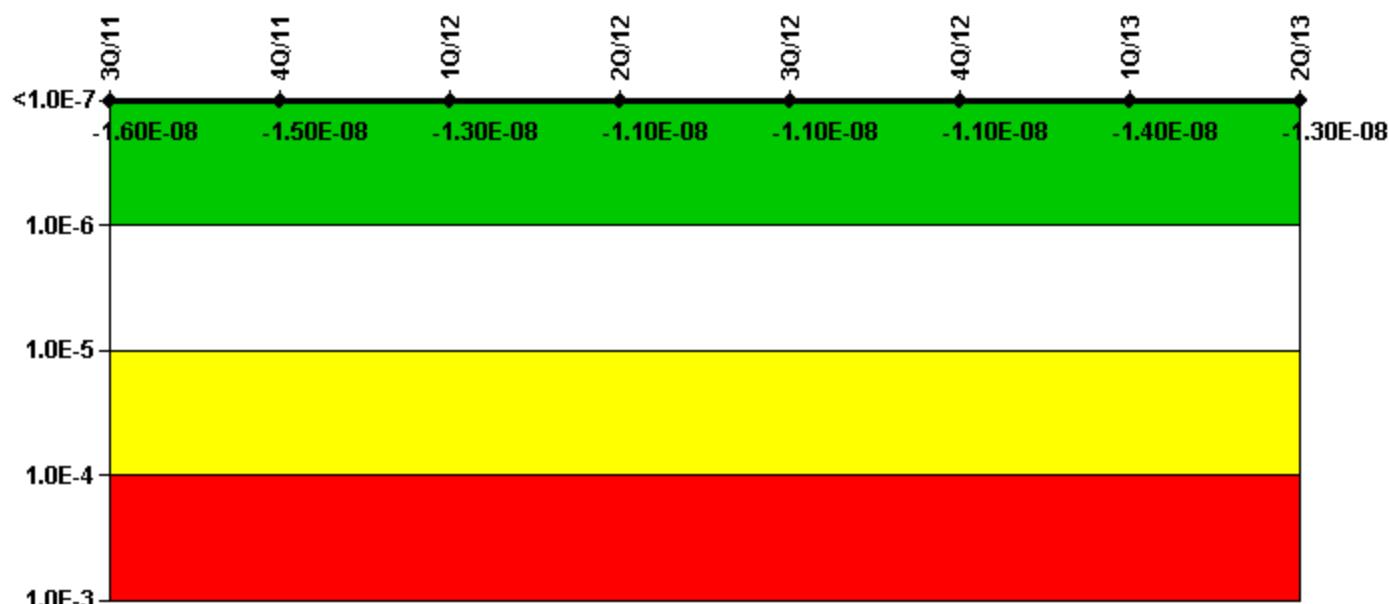
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	5.59E-09	-8.25E-10	4.27E-08	5.53E-08	6.19E-08	4.62E-08	5.50E-08	6.62E-08
URI (Δ CDF)	9.06E-08	9.14E-08	1.09E-07	1.11E-07	1.12E-07	1.09E-07	9.58E-08	9.47E-08
PLE	NO							
Indicator value	9.60E-08	9.10E-08	1.50E-07	1.70E-07	1.70E-07	1.60E-07	1.50E-07	1.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



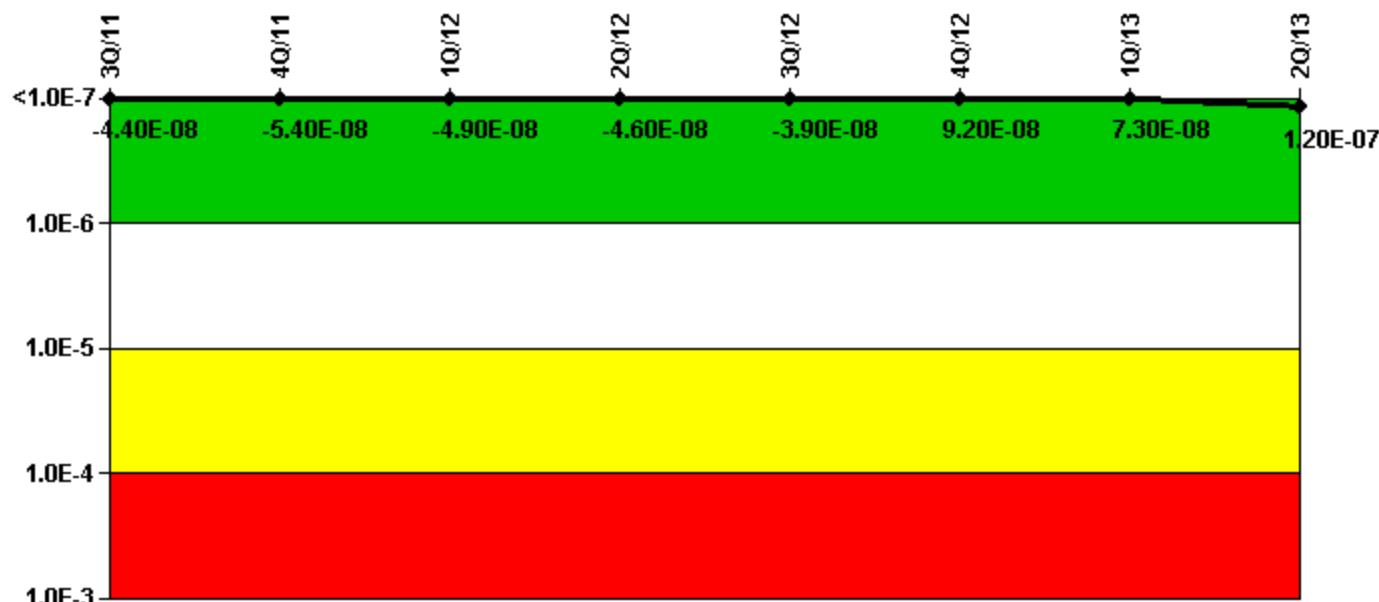
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-2.77E-09	-2.06E-09	-2.46E-09	-8.59E-10	-8.25E-10	-7.43E-10	-2.88E-09	-2.44E-09
URI (Δ CDF)	-1.28E-08	-1.26E-08	-1.06E-08	-1.03E-08	-1.02E-08	-1.02E-08	-1.06E-08	-1.06E-08
PLE	NO							
Indicator value	-1.60E-08	-1.50E-08	-1.30E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.40E-08	-1.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



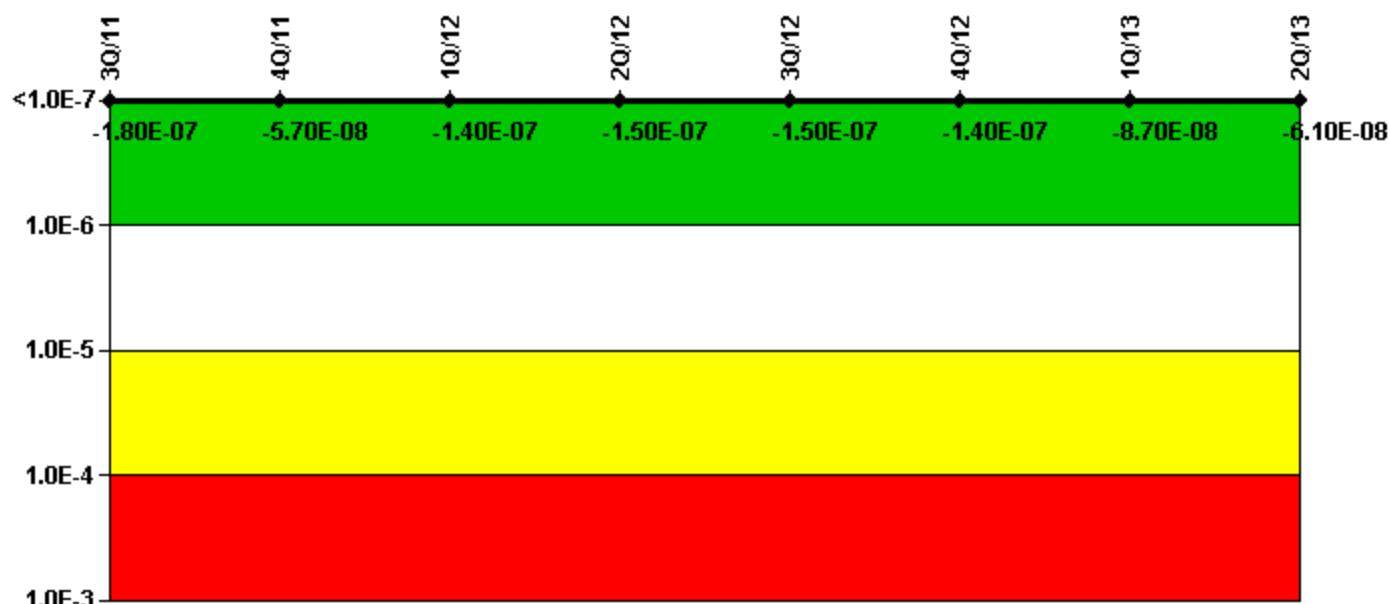
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	-4.51E-08	-5.46E-08	-4.43E-08	-4.10E-08	-3.45E-08	9.07E-08	7.29E-08	1.19E-07
URI (Δ CDF)	6.91E-10	4.25E-10	-4.61E-09	-4.62E-09	-4.47E-09	1.39E-09	-1.28E-10	-1.54E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.40E-08	-5.40E-08	-4.90E-08	-4.60E-08	-3.90E-08	9.20E-08	7.30E-08	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

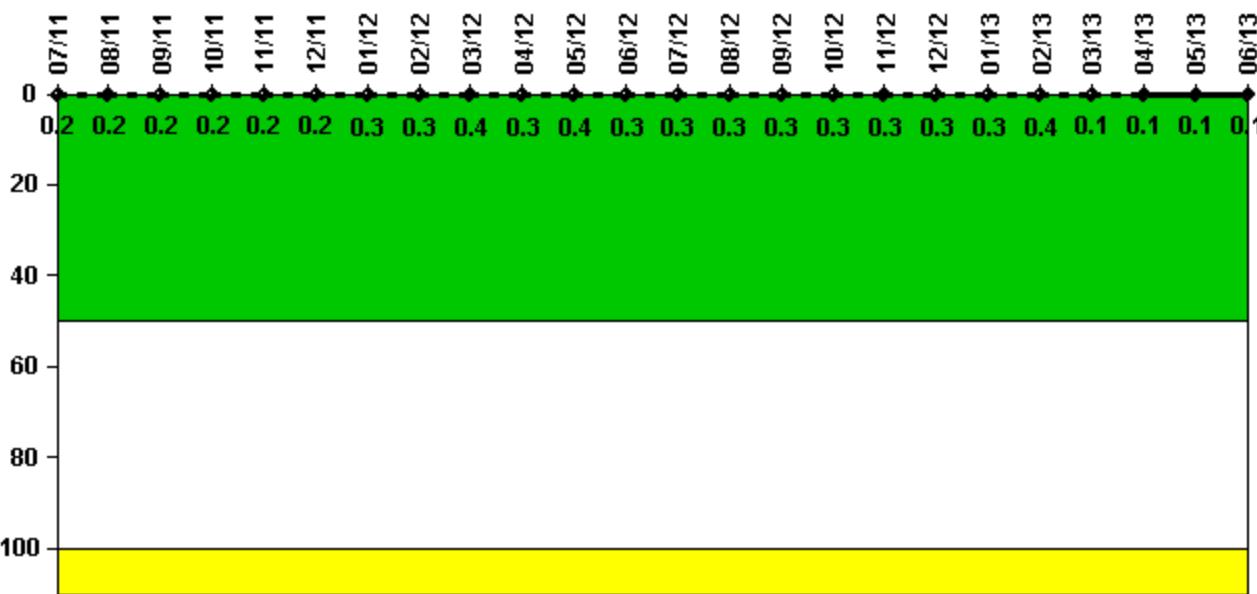
Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	5.79E-08	1.81E-07	9.35E-08	8.44E-08	9.11E-08	9.61E-08	1.51E-07	1.77E-07
URI (Δ CDF)	-2.39E-07	-2.39E-07	-2.38E-07	-2.38E-07	-2.38E-07	-2.38E-07	-2.38E-07	-2.38E-07
PLE	NO							
Indicator value	-1.80E-07	-5.70E-08	-1.40E-07	-1.50E-07	-1.50E-07	-1.40E-07	-8.70E-08	-6.10E-08

Licensee Comments:

4Q/11: Two CWS2 AOVs added due to current inability to validate their exclusion during the original MSPI scoping. CR-2011-008863

Reactor Coolant System Activity



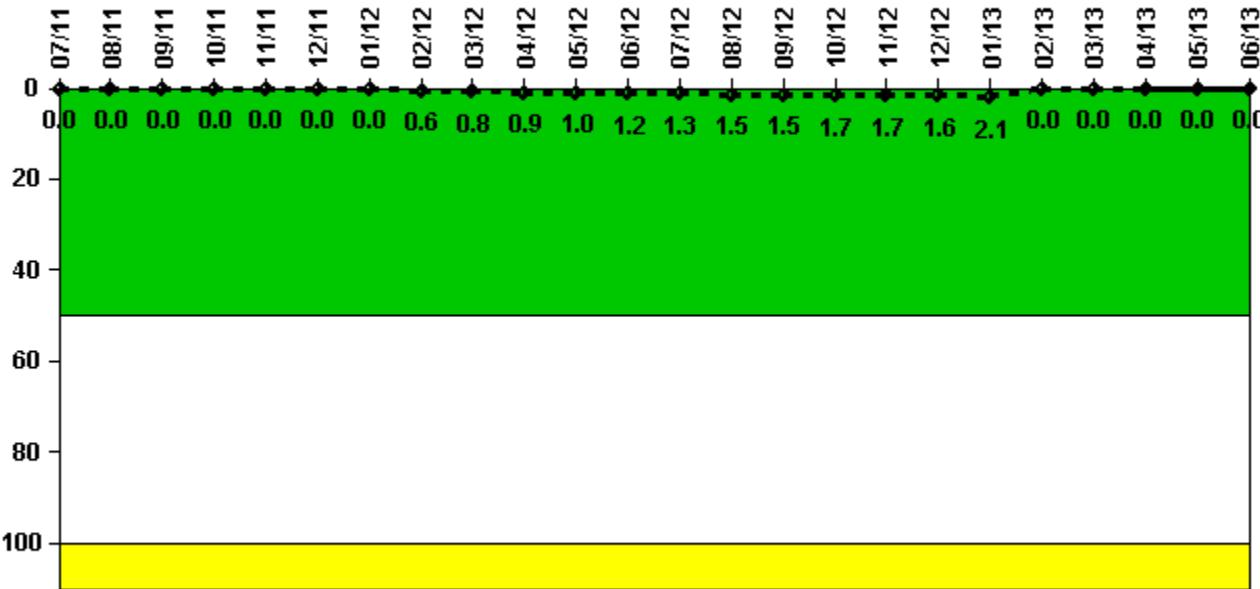
Thresholds: White > 50.0 Yellow > 100.0

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	0.000878	0.000956	0.001090	0.001170	0.001080	0.001240	0.001270	0.001420	0.001770	0.001310	0.001780	0.001430
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.4	0.3
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	0.001370	0.001400	0.001460	0.001550	0.001540	0.001590	0.001660	0.001760	0.000316	0.000536	0.000257	0.000617
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	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	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	0	0	0	0	0	0	0.060	0.080	0.090	0.100	0.120
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	0	0.6	0.8	0.9	1.0	1.2						

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	0.130	0.150	0.150	0.170	0.170	0.160	0.210	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	1.3	1.5	1.5	1.7	1.7	1.6	2.1	0	0	0	0	0

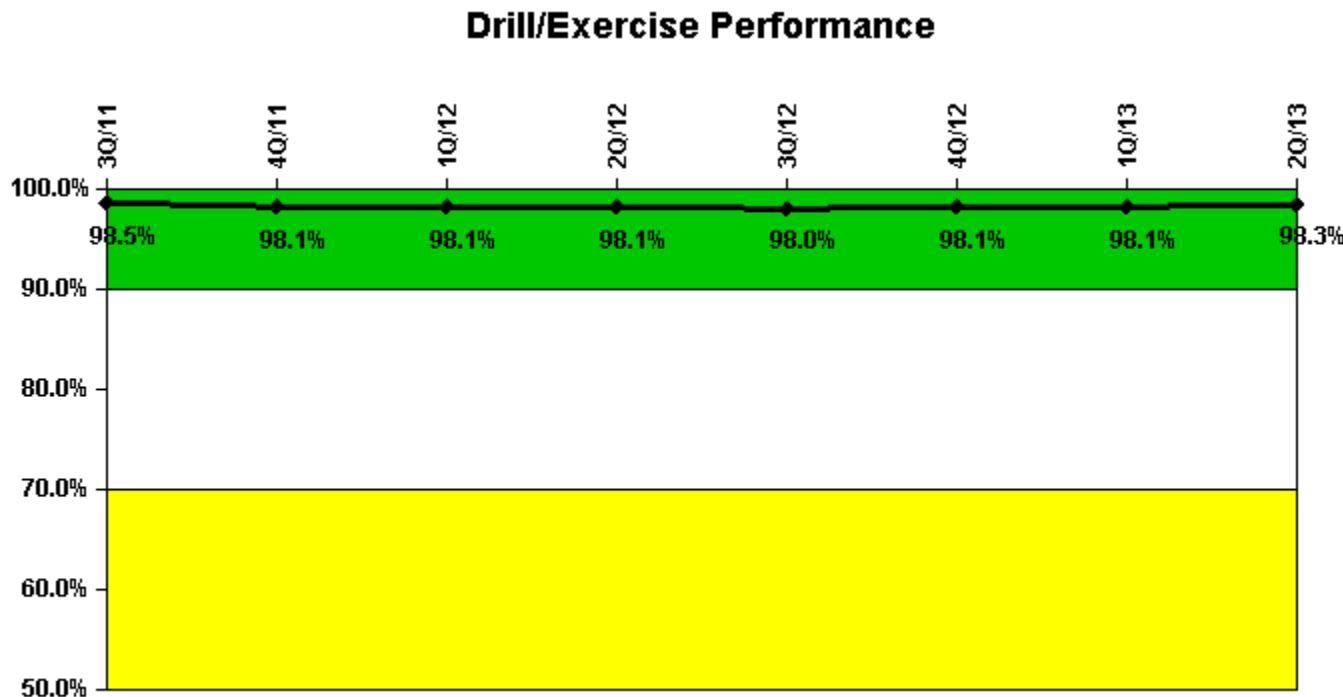
Licensee Comments:

6/12: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

3/12: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

12/11: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

9/11: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.



Thresholds: White < 90.0% Yellow < 70.0%

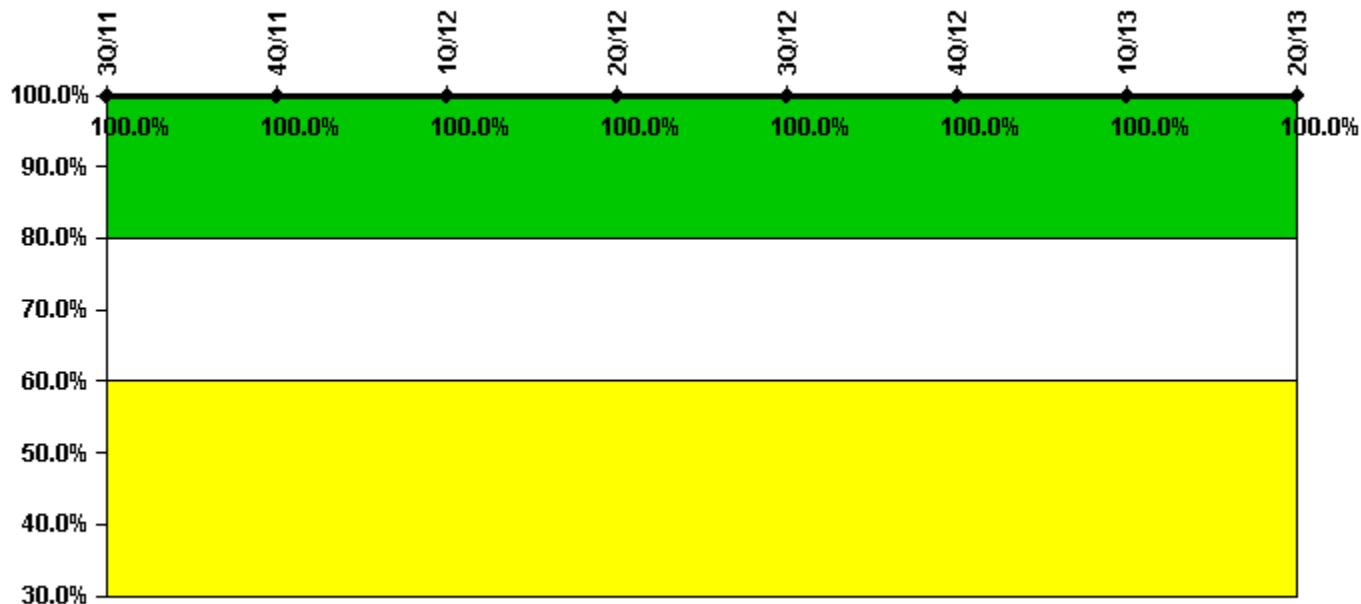
Notes

Drill/Exercise Performance	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful opportunities	30.0	55.0	5.0	25.0	12.0	67.0	2.0	32.0
Total opportunities	30.0	57.0	5.0	25.0	13.0	68.0	2.0	32.0
Indicator value	98.5%	98.1%	98.1%	98.1%	98.0%	98.1%	98.1%	98.3%

Licensee Comments:

4Q/11: CR-2012-007357: While reviewing the 10/04/2011 crew competency work sheet and initial notification form, EP found sets A.4 and A.7 were incorrect. EP removed the notification performance success from the statistics and corrected the 4Q2011 data record.

ERO Drill Participation



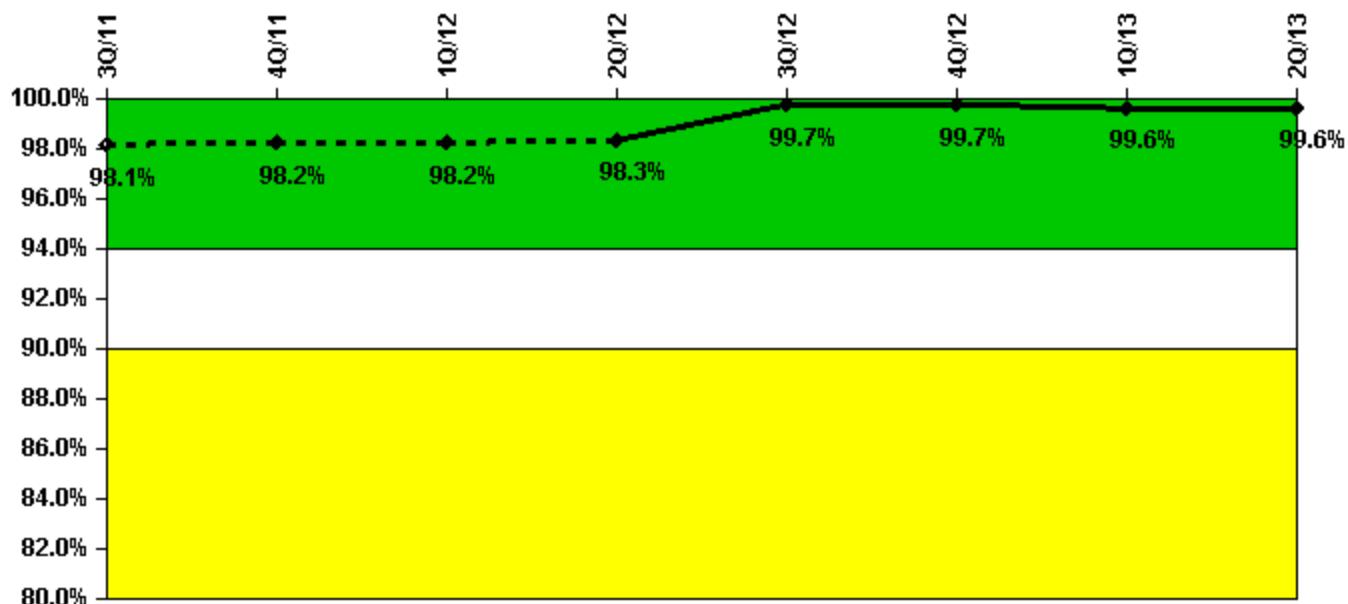
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Participating Key personnel	83.0	84.0	86.0	80.0	83.0	84.0	79.0	79.0
Total Key personnel	83.0	84.0	86.0	80.0	83.0	84.0	79.0	79.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

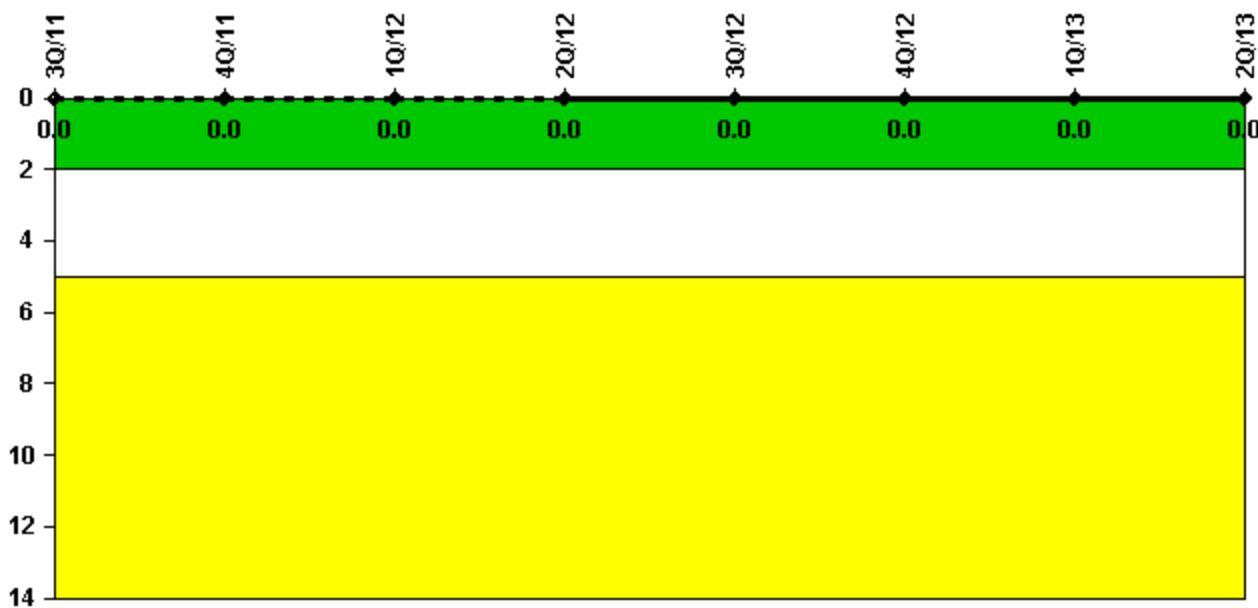
Notes

Alert & Notification System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful siren-tests	889	946	947	948	945	1016	871	948
Total sirens-tests	949	949	949	949	949	1022	876	949
Indicator value	98.1%	98.2%	98.2%	98.3%	99.7%	99.7%	99.6%	99.6%

Licensee Comments:

3Q/11: ANS test was misinterpreted and incorrectly reported in 3Q2011. The system engineer caught the error and Licensing corrected in CDE in 1Q2012. CR-2012-000541.

Occupational Exposure Control Effectiveness



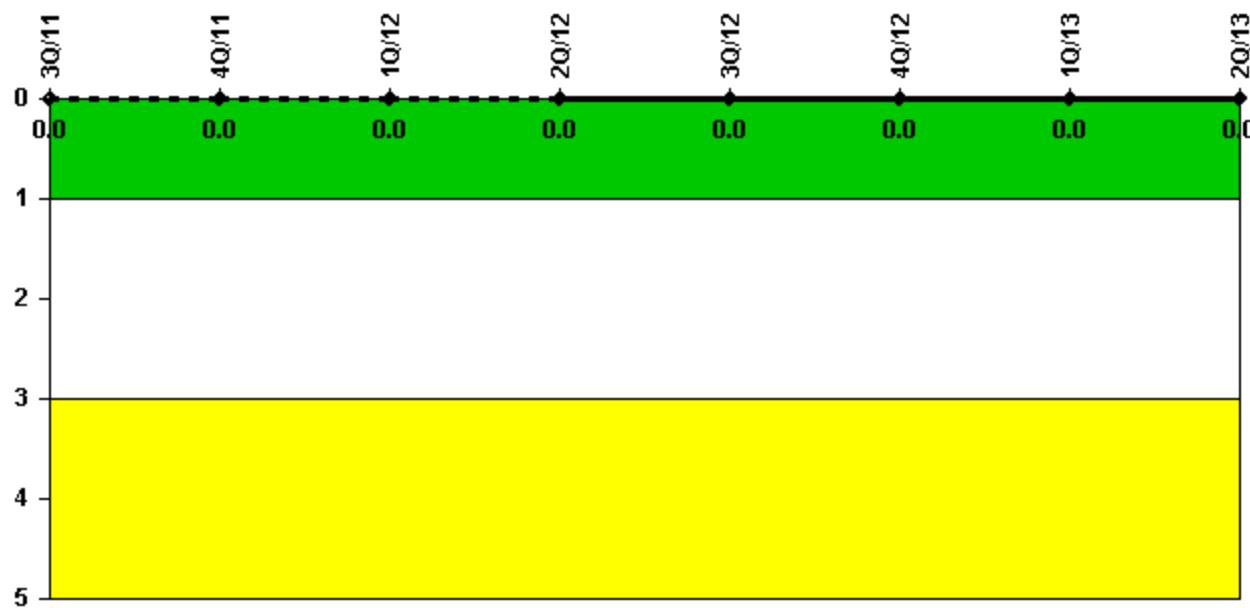
Thresholds: White > 2.0 Yellow > 5.0

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

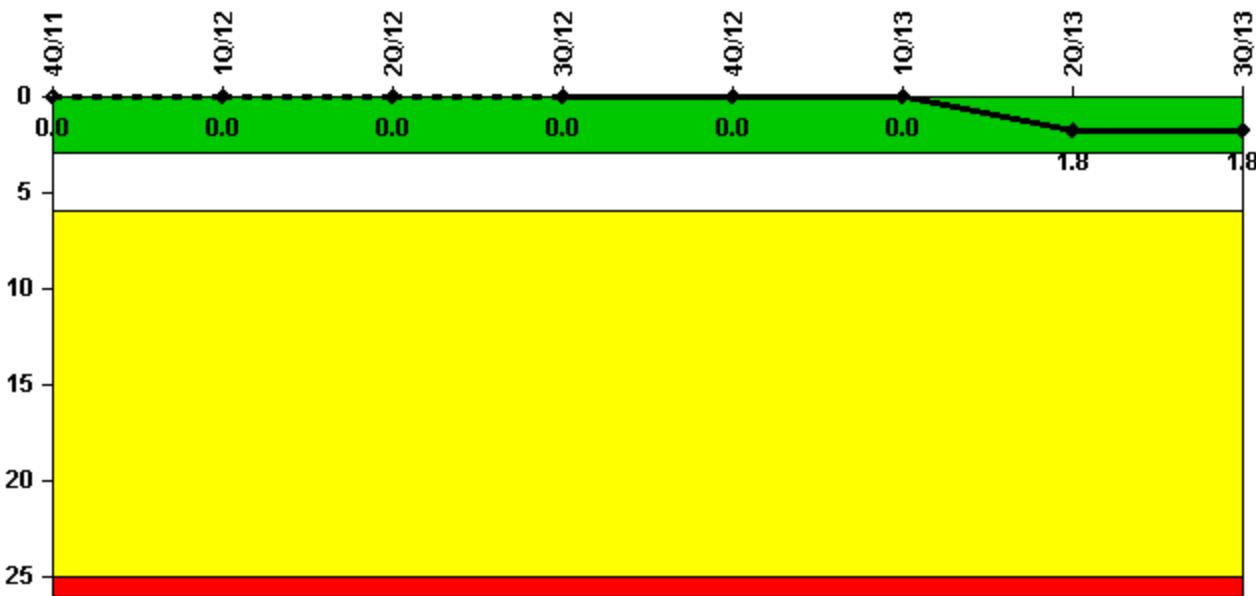
Calvert Cliffs 2

3Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



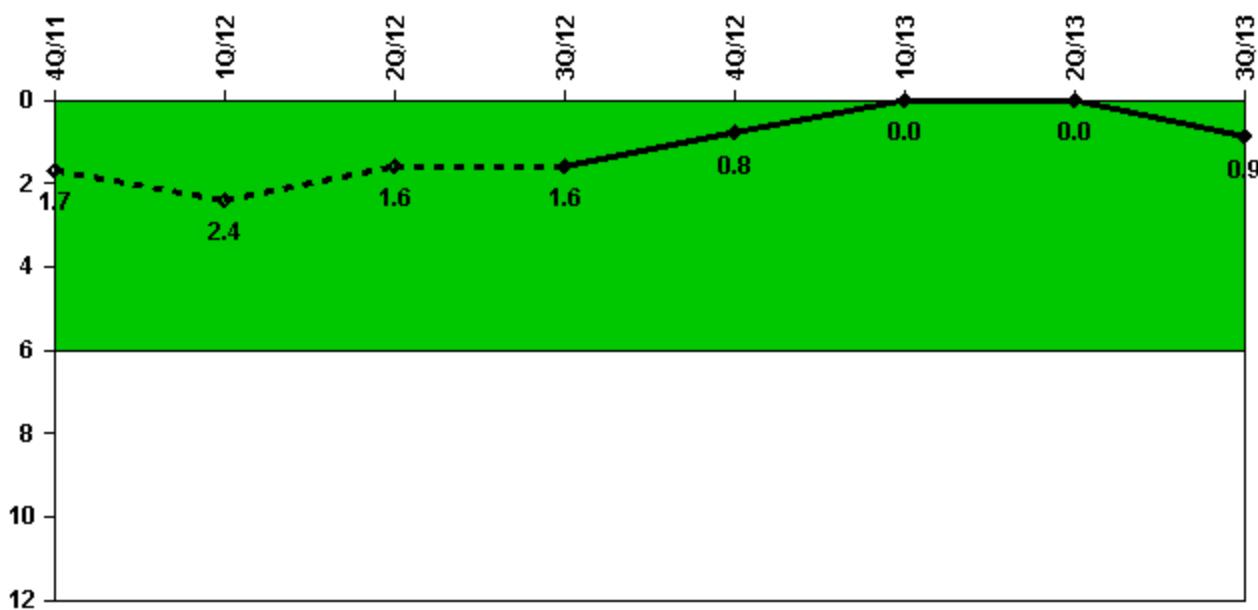
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	2.0	0
Critical hours	2209.0	2183.0	2184.0	2208.0	2209.0	1323.2	2076.8	2104.1
Indicator value	0	0	0	0	0	0	1.8	1.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



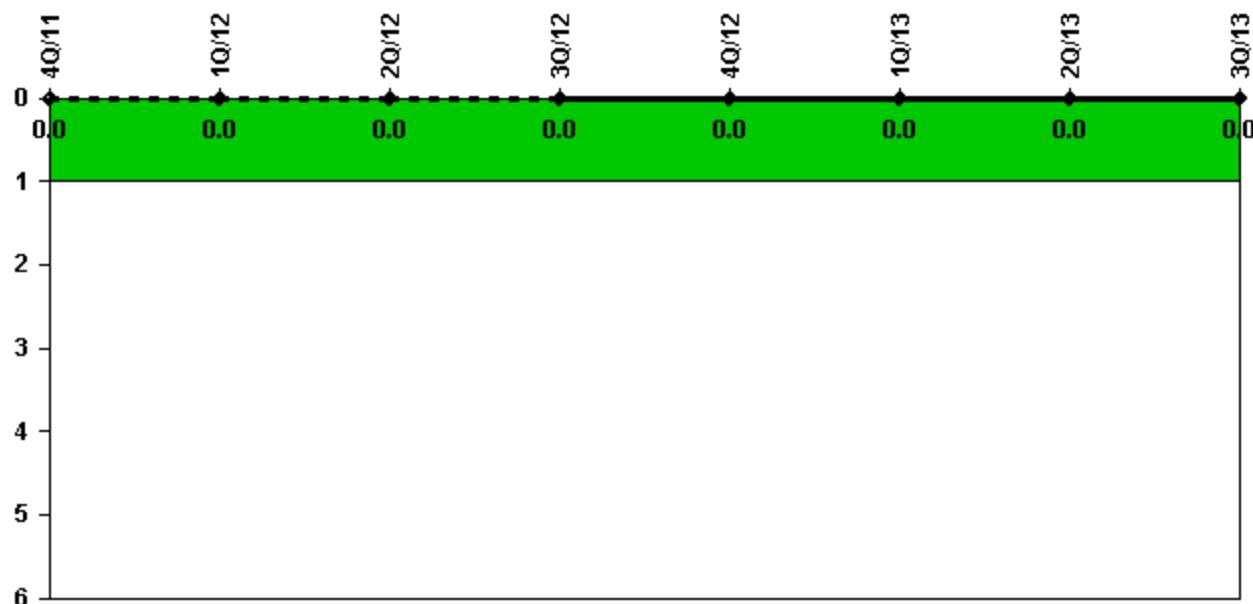
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned power changes	1.0	1.0	0	0	0	0	0	1.0
Critical hours	2209.0	2183.0	2184.0	2208.0	2209.0	1323.2	2076.8	2104.1
Indicator value	1.7	2.4	1.6	1.6	0.8	0	0	0.9

Licensee Comments:

4Q/11: Power change occurrence selected during data entry in 11-2011 should have been "unplanned, NOT excluded per NEI 99-02" vs. incorrect selection "unplanned, excluded per NEI 99-02". Error discovered in October 2012 and corrected, CR-2012-009097 written. No thresholds or color changes were crossed as a result of including these power changes.

Unplanned Scrams with Complications

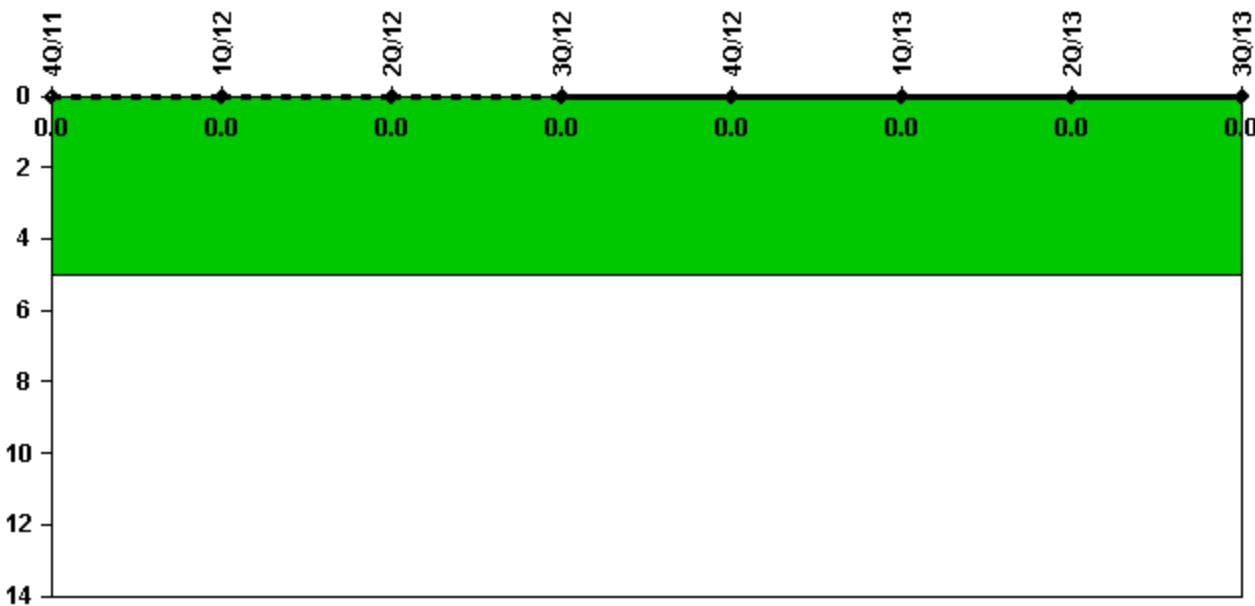
Thresholds: White > 1.0

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)



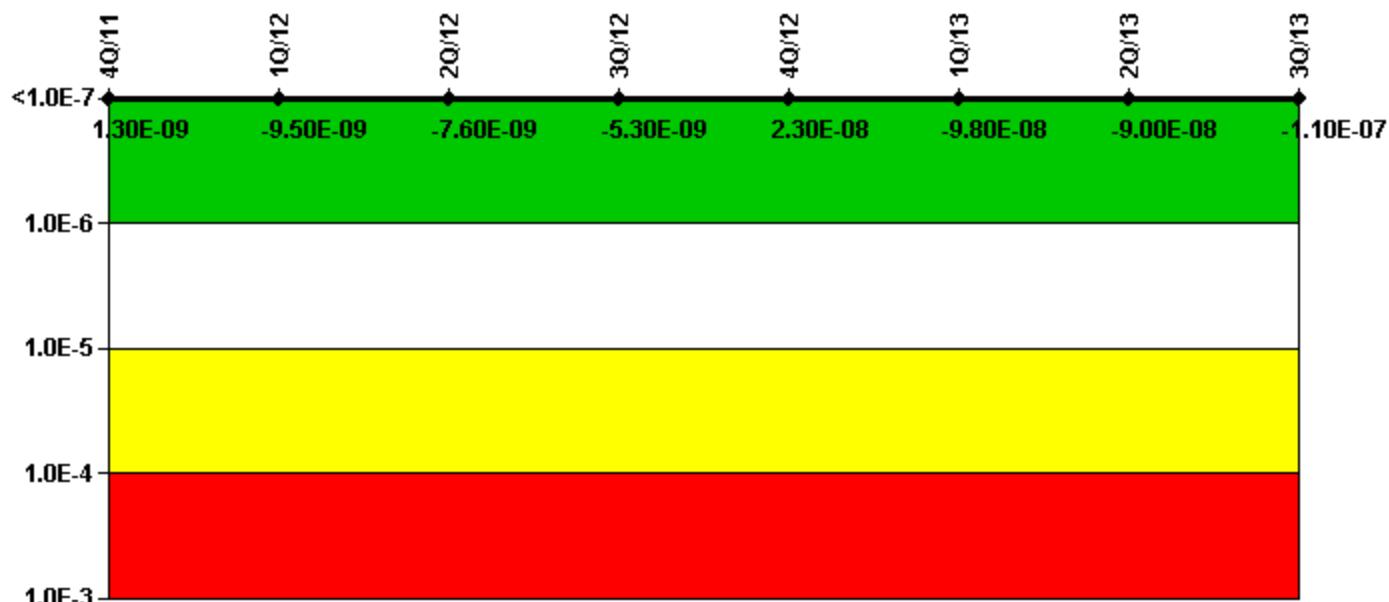
Thresholds: White > 5.0

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



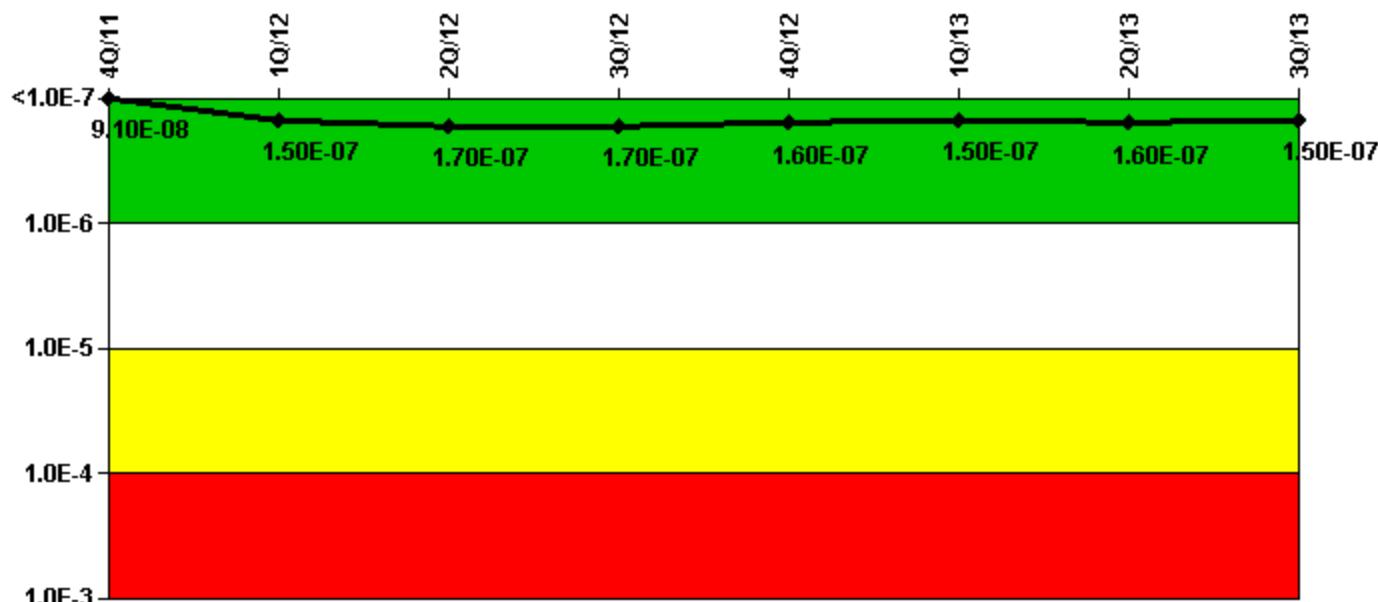
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	8.01E-08	6.53E-08	6.53E-08	6.38E-08	8.52E-08	3.93E-08	4.49E-08	3.19E-08
URI (Δ CDF)	-7.88E-08	-7.48E-08	-7.29E-08	-6.91E-08	-6.22E-08	-1.38E-07	-1.35E-07	-1.39E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.30E-09	-9.50E-09	-7.60E-09	-5.30E-09	2.30E-08	-9.80E-08	-9.00E-08	-1.10E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



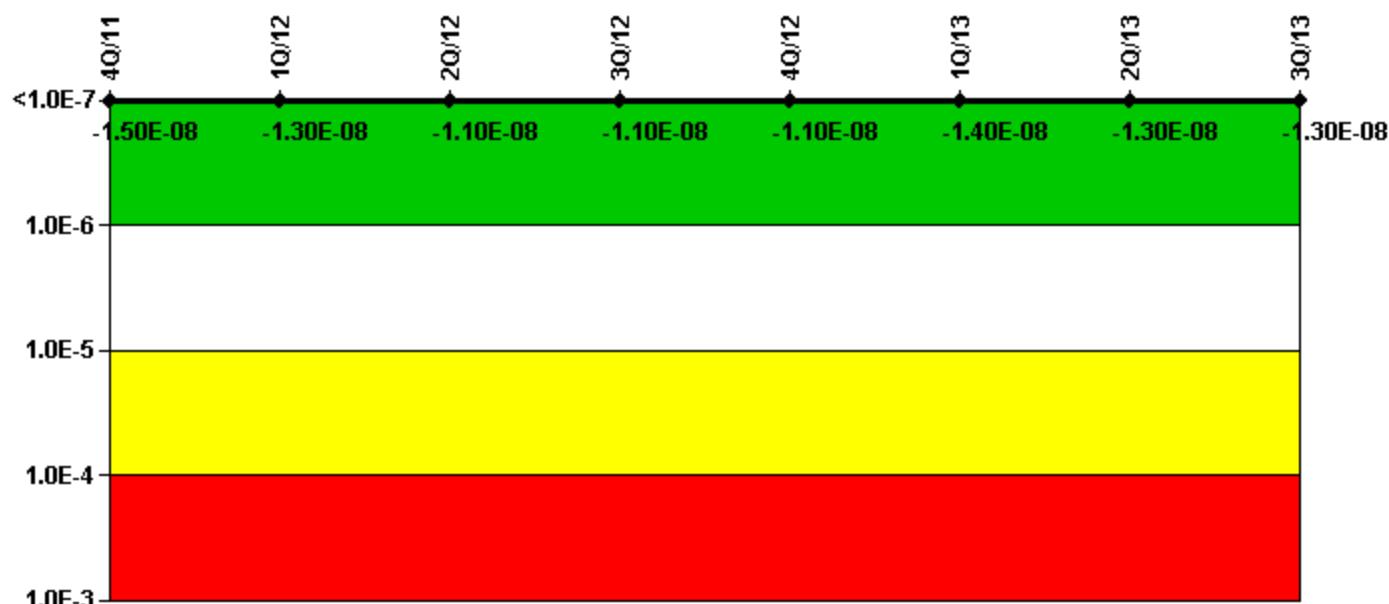
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	-8.25E-10	4.27E-08	5.53E-08	6.19E-08	4.62E-08	5.50E-08	6.62E-08	6.30E-08
URI (Δ CDF)	9.14E-08	1.09E-07	1.11E-07	1.12E-07	1.09E-07	9.58E-08	9.47E-08	9.20E-08
PLE	NO							
Indicator value	9.10E-08	1.50E-07	1.70E-07	1.70E-07	1.60E-07	1.50E-07	1.60E-07	1.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



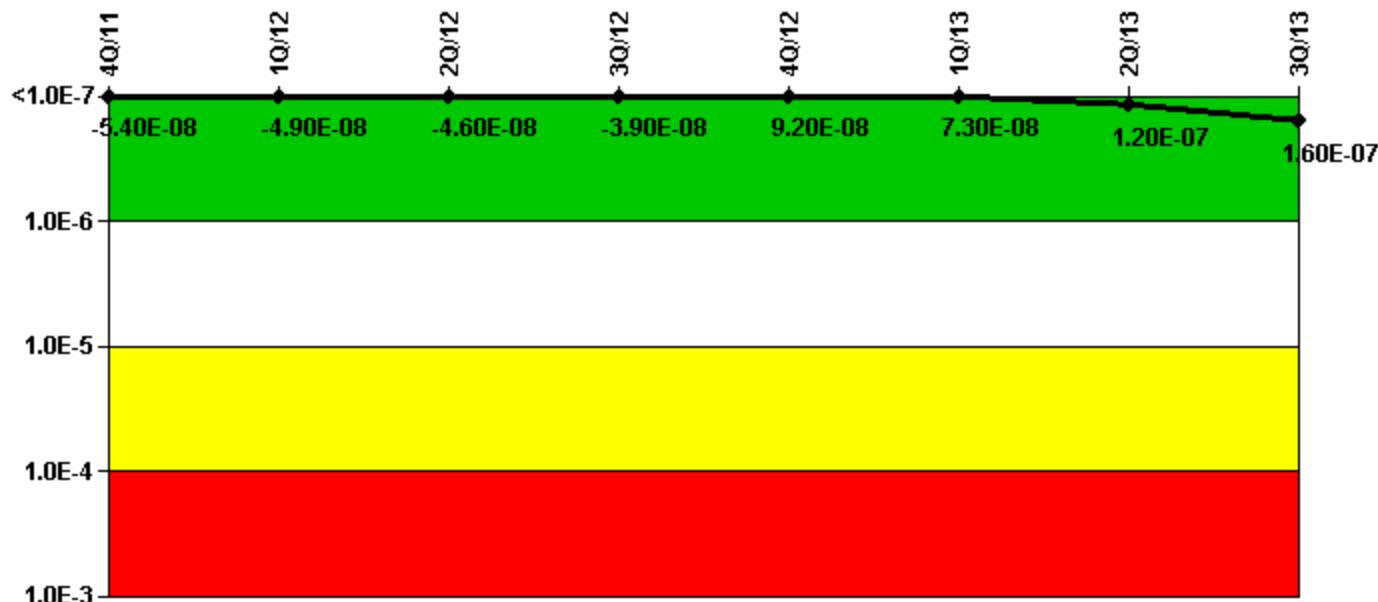
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	-2.06E-09	-2.46E-09	-8.59E-10	-8.25E-10	-7.43E-10	-2.88E-09	-2.44E-09	-3.08E-09
URI (Δ CDF)	-1.26E-08	-1.06E-08	-1.03E-08	-1.02E-08	-1.02E-08	-1.06E-08	-1.06E-08	-1.04E-08
PLE	NO							
Indicator value	-1.50E-08	-1.30E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.40E-08	-1.30E-08	-1.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



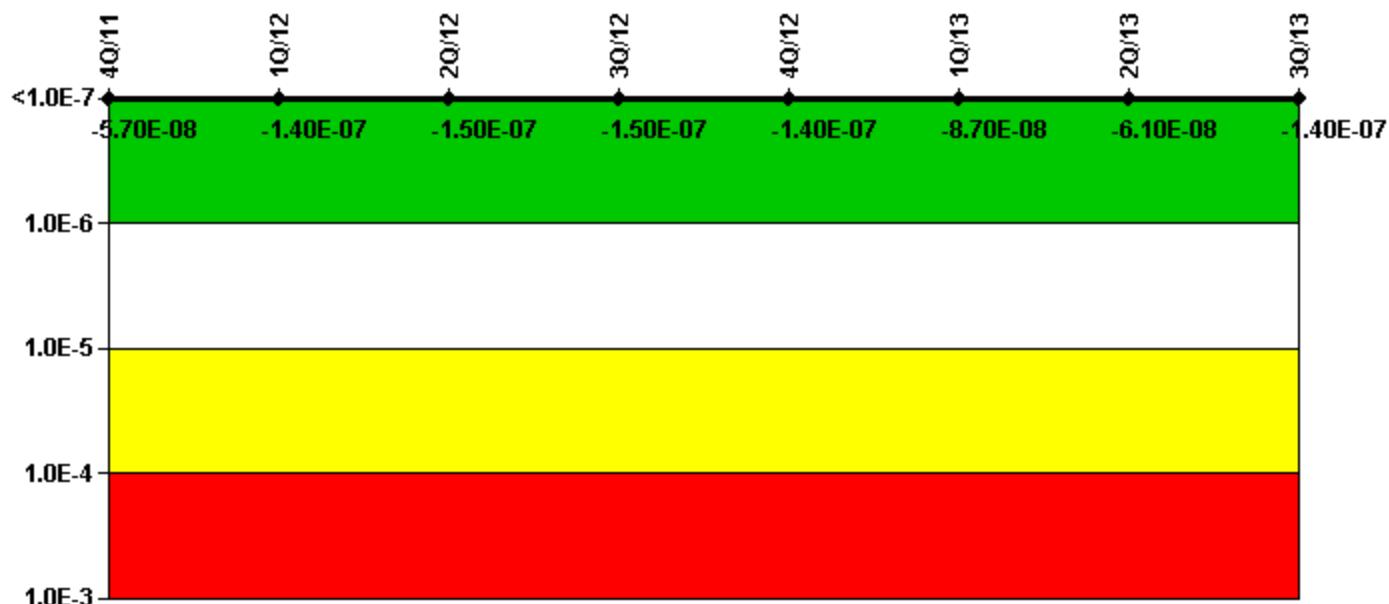
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-5.46E-08	-4.43E-08	-4.10E-08	-3.45E-08	9.07E-08	7.29E-08	1.19E-07	1.58E-07
URI (Δ CDF)	4.25E-10	-4.61E-09	-4.62E-09	-4.47E-09	1.39E-09	-1.28E-10	-1.54E-10	-3.66E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.40E-08	-4.90E-08	-4.60E-08	-3.90E-08	9.20E-08	7.30E-08	1.20E-07	1.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

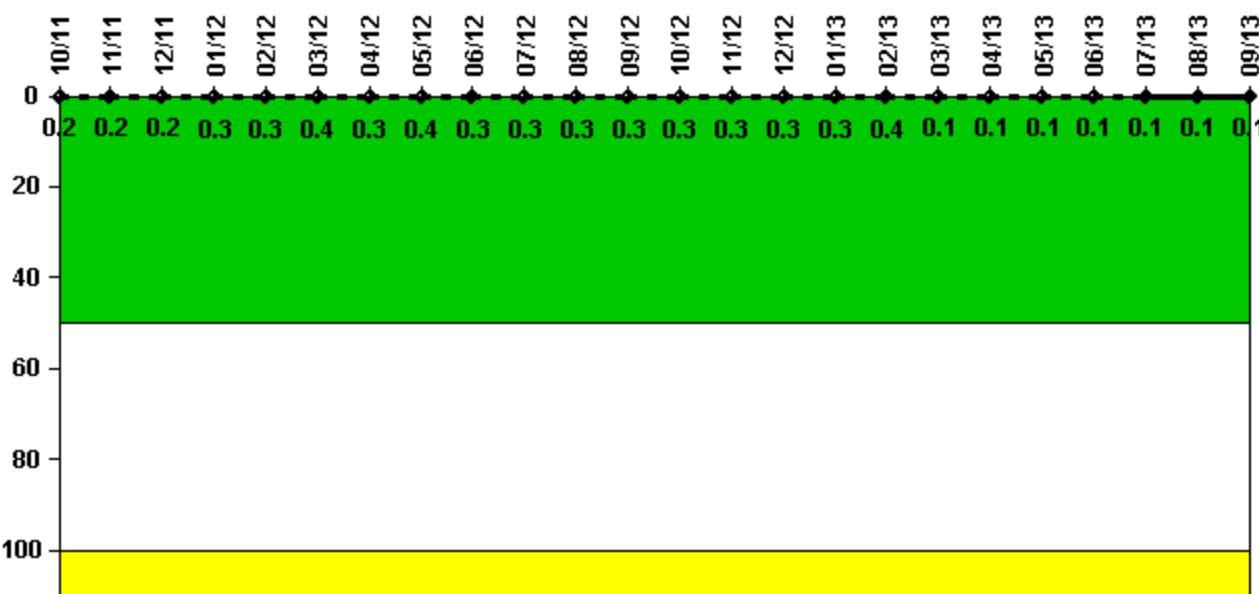
Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	1.81E-07	9.35E-08	8.44E-08	9.11E-08	9.61E-08	1.51E-07	1.77E-07	9.51E-08
URI (Δ CDF)	-2.39E-07	-2.38E-07						
PLE	NO							
Indicator value	-5.70E-08	-1.40E-07	-1.50E-07	-1.50E-07	-1.40E-07	-8.70E-08	-6.10E-08	-1.40E-07

Licensee Comments:

4Q/11: Two CWS2 AOVs added due to current inability to validate their exclusion during the original MSPI scoping. CR-2011-008863

Reactor Coolant System Activity



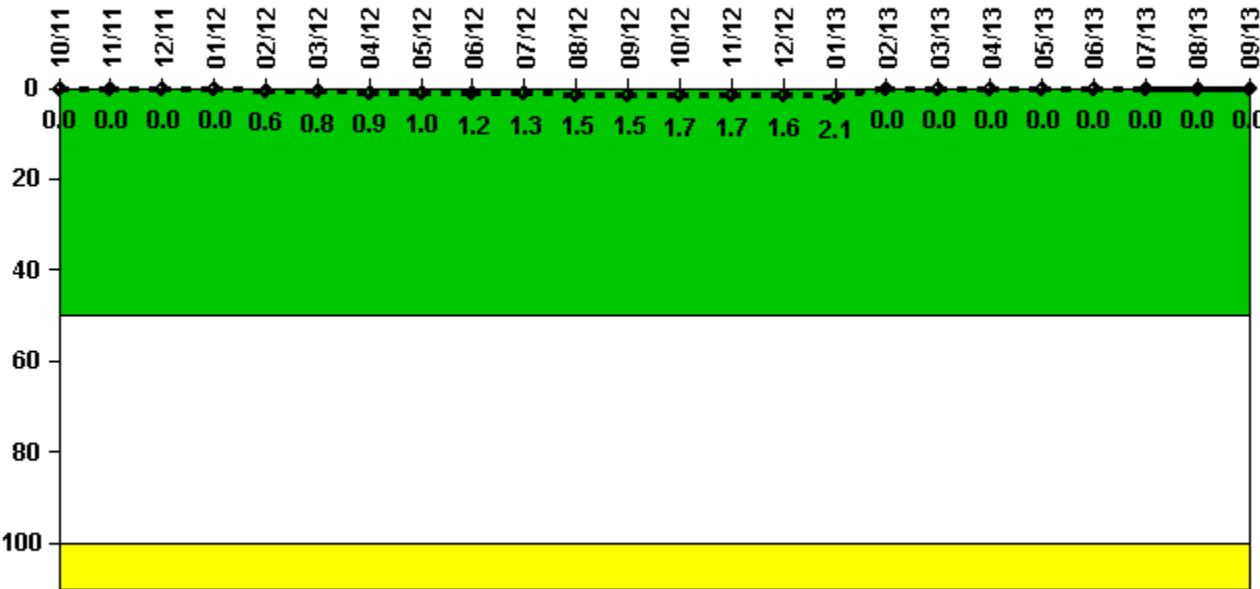
Thresholds: White > 50.0 Yellow > 100.0

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	0.001170	0.001080	0.001240	0.001270	0.001420	0.001770	0.001310	0.001780	0.001430	0.001370	0.001400	0.001460
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.2	0.2	0.2	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3
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	0.001550	0.001540	0.001590	0.001660	0.001760	0.000316	0.000536	0.000257	0.000617	0.000583	0.000645	0.000693
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.3	0.3	0.3	0.3	0.4	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	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	0	0	0	0.060	0.080	0.090	0.100	0.120	0.130	0.150	0.150
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	0	0	0	0	0.6	0.8	0.9	1.0	1.2	1.3	1.5	1.5
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	0.170	0.170	0.160	0.210	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	1.7	1.7	1.6	2.1	0							

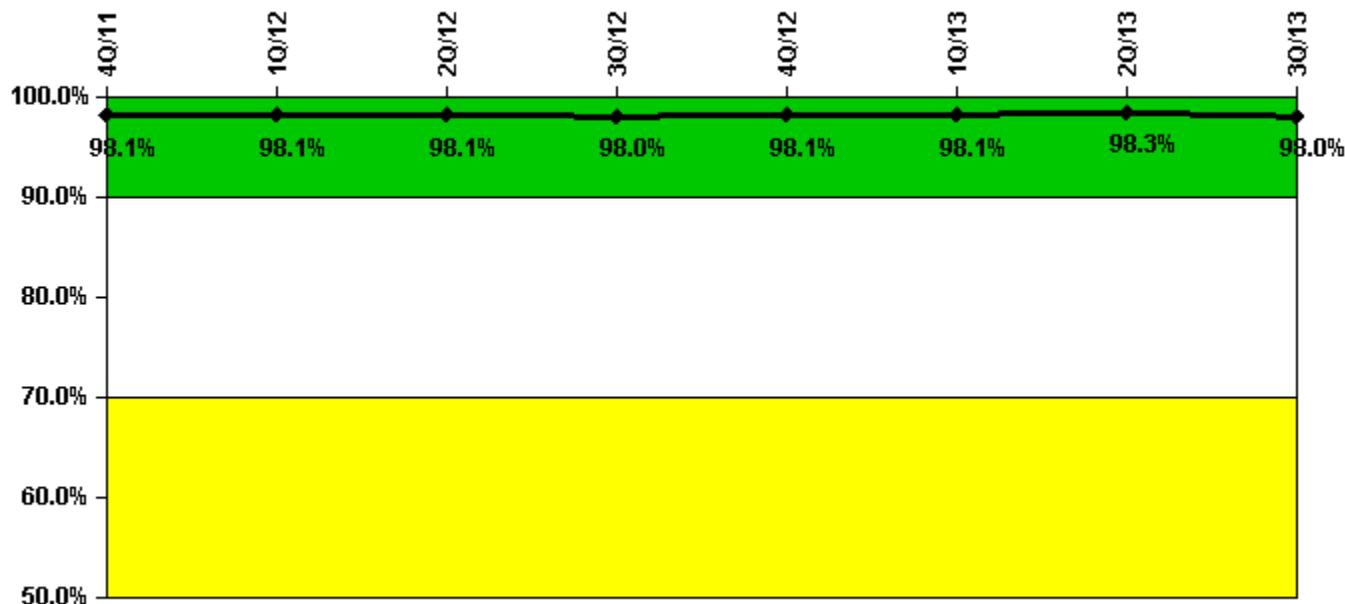
Licensee Comments:

6/12: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

3/12: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

12/11: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

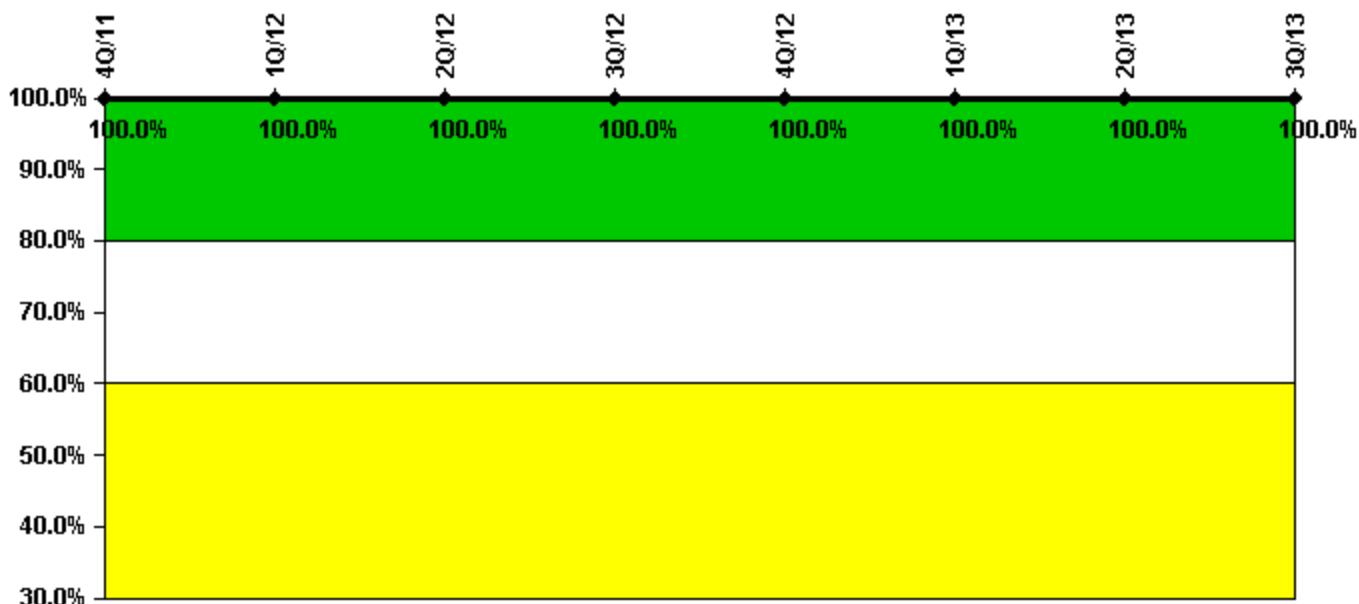
Notes

Drill/Exercise Performance	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful opportunities	55.0	5.0	25.0	12.0	67.0	2.0	32.0	53.0
Total opportunities	57.0	5.0	25.0	13.0	68.0	2.0	32.0	54.0
Indicator value	98.1%	98.1%	98.1%	98.0%	98.1%	98.1%	98.3%	98.0%

Licensee Comments:

4Q/11: CR-2012-007357: While reviewing the 10/04/2011 crew competency work sheet and initial notification form, EP found sets A.4 and A.7 were incorrect. EP removed the notification performance success from the statistics and corrected the 4Q2011 data record.

ERO Drill Participation



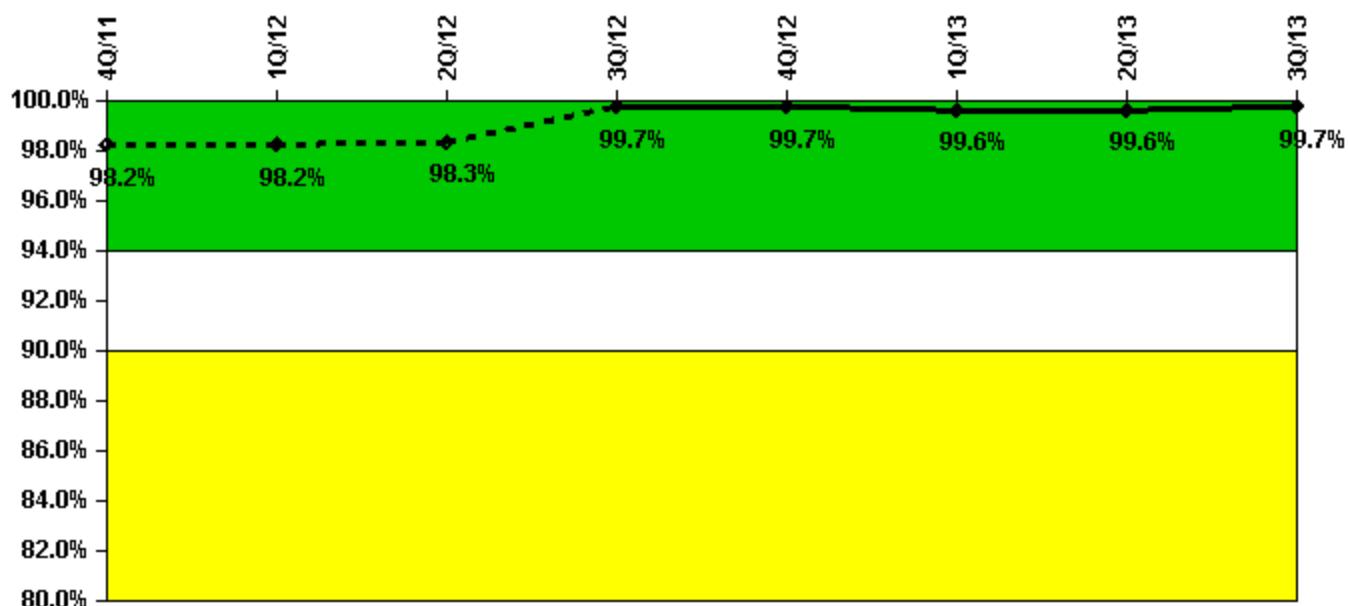
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Participating Key personnel	84.0	86.0	80.0	83.0	84.0	79.0	79.0	80.0
Total Key personnel	84.0	86.0	80.0	83.0	84.0	79.0	79.0	80.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



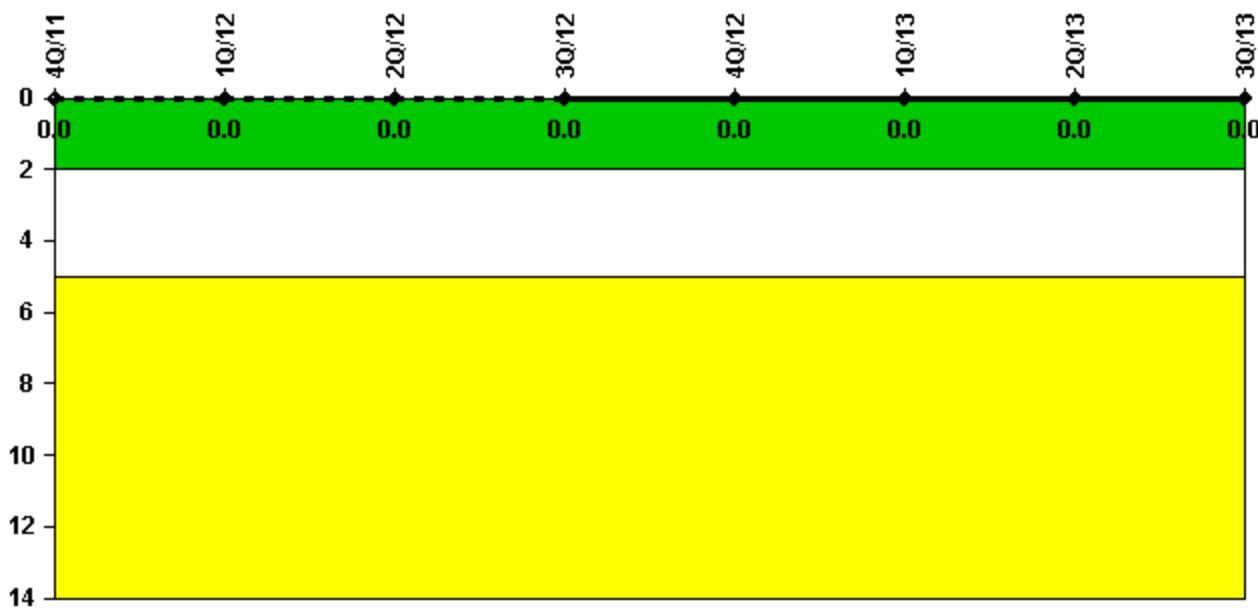
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful siren-tests	946	947	948	945	1016	871	948	971
Total sirens-tests	949	949	949	949	1022	876	949	972
Indicator value	98.2%	98.2%	98.3%	99.7%	99.7%	99.6%	99.6%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



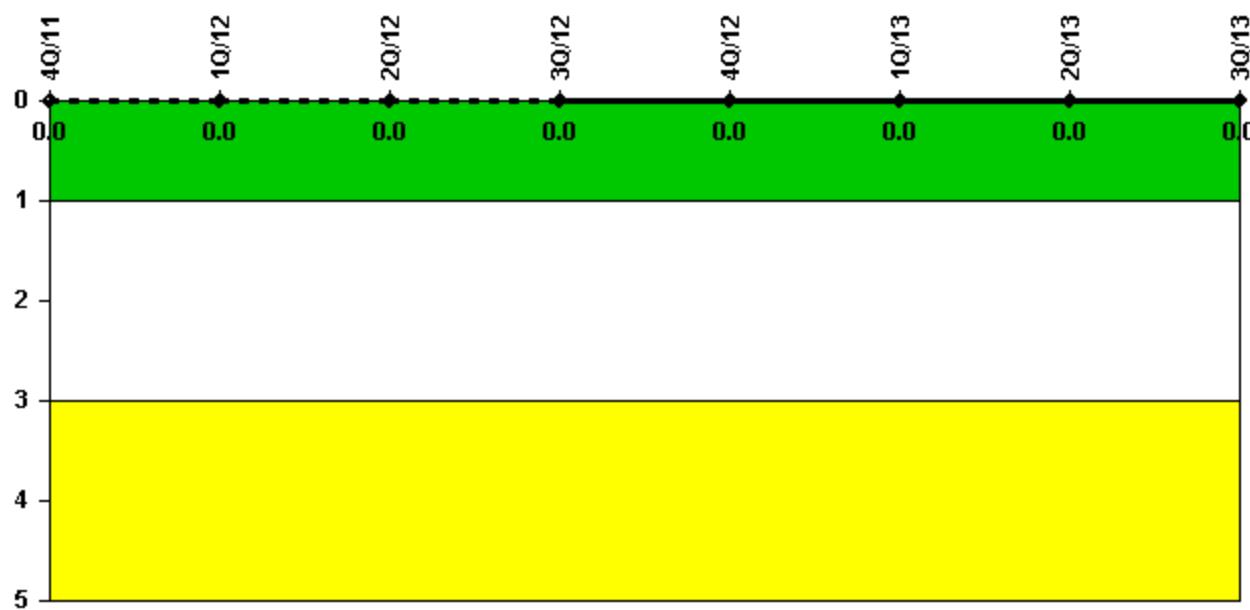
Thresholds: White > 2.0 Yellow > 5.0

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

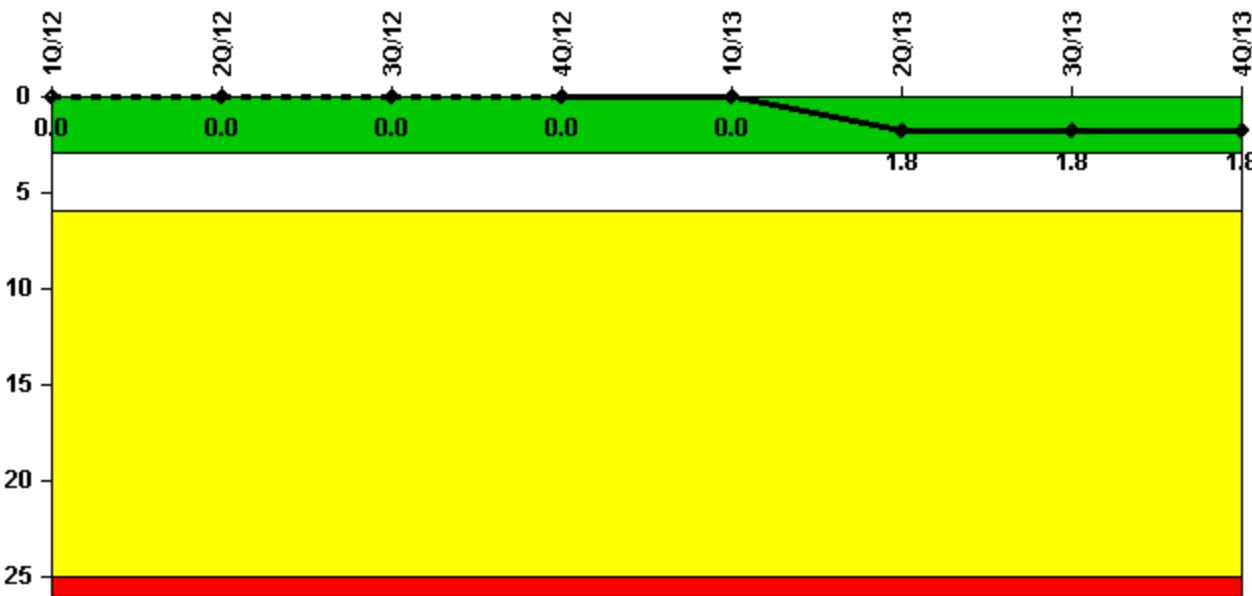
Calvert Cliffs 2

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

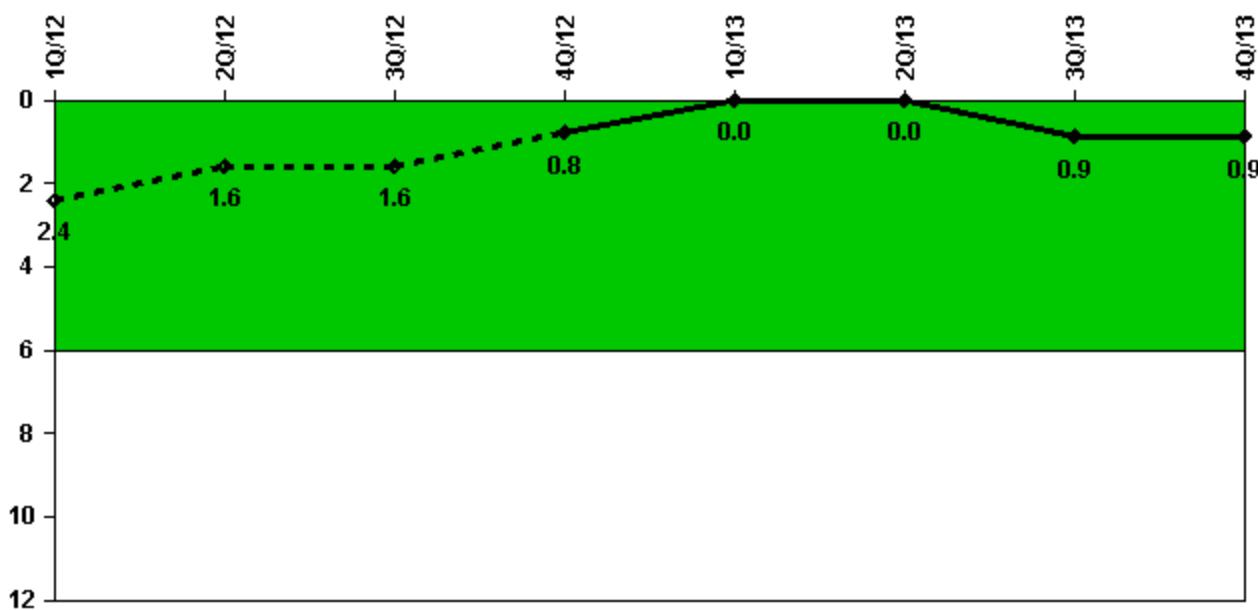


Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	2.0	0	0
Critical hours	2183.0	2184.0	2208.0	2209.0	1323.2	2076.8	2104.1	2209.0
Indicator value	0	0	0	0	0	1.8	1.8	1.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

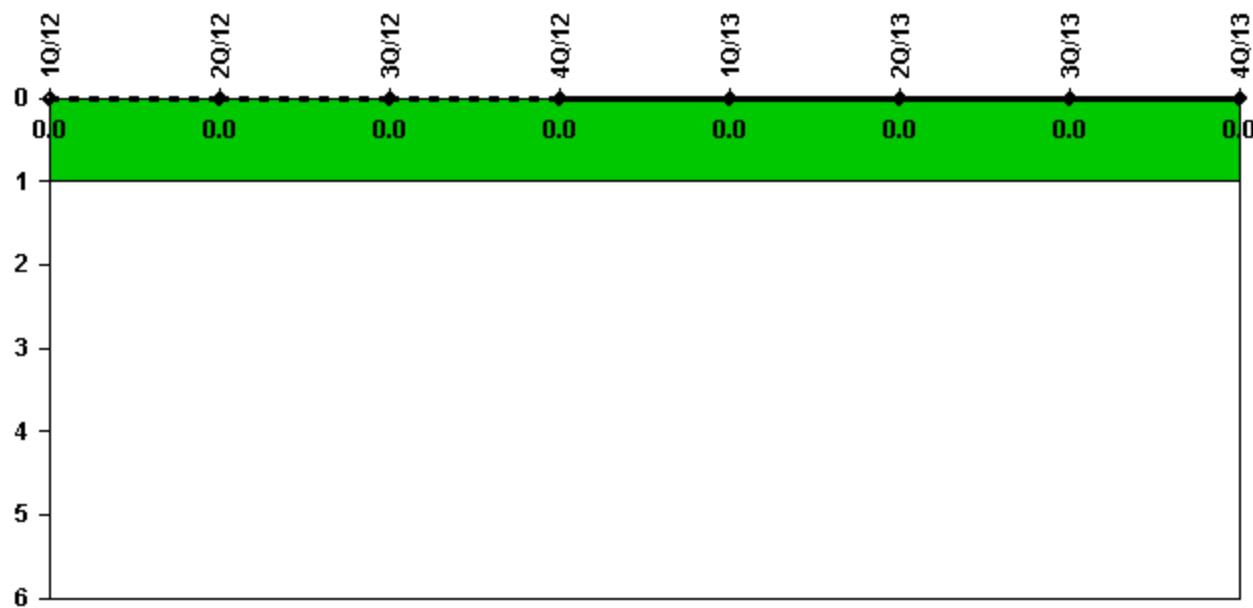
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned power changes	1.0	0	0	0	0	0	1.0	0
Critical hours	2183.0	2184.0	2208.0	2209.0	1323.2	2076.8	2104.1	2209.0
Indicator value	2.4	1.6	1.6	0.8	0	0	0.9	0.9

Licensee Comments: none

Unplanned Scrams with Complications



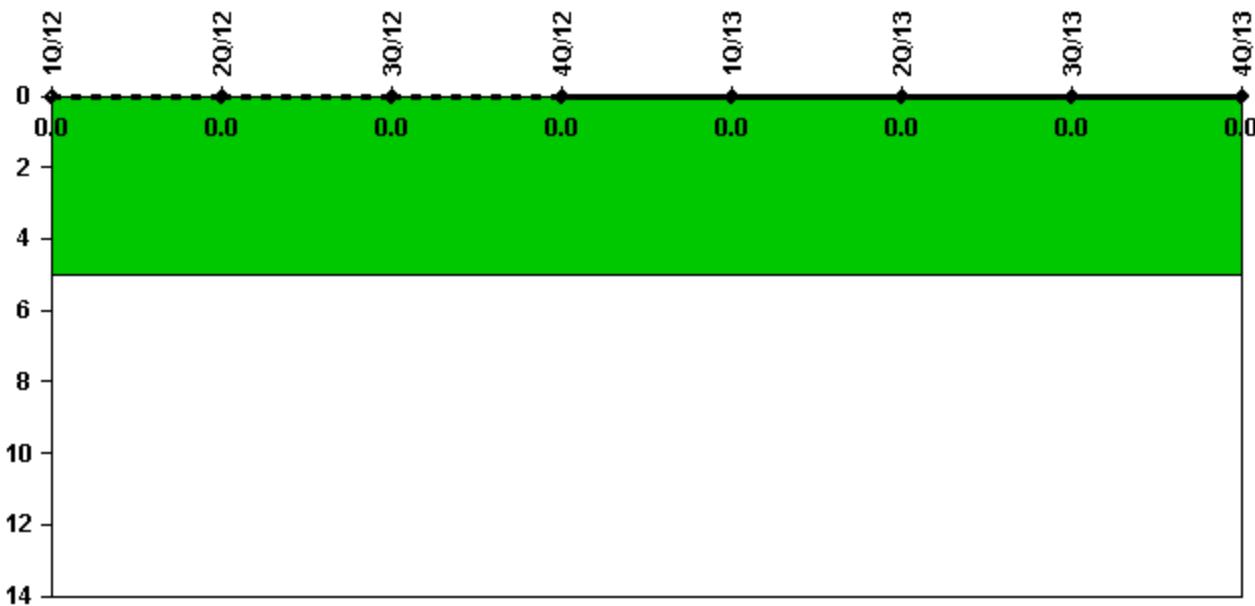
Thresholds: White > 1.0

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)



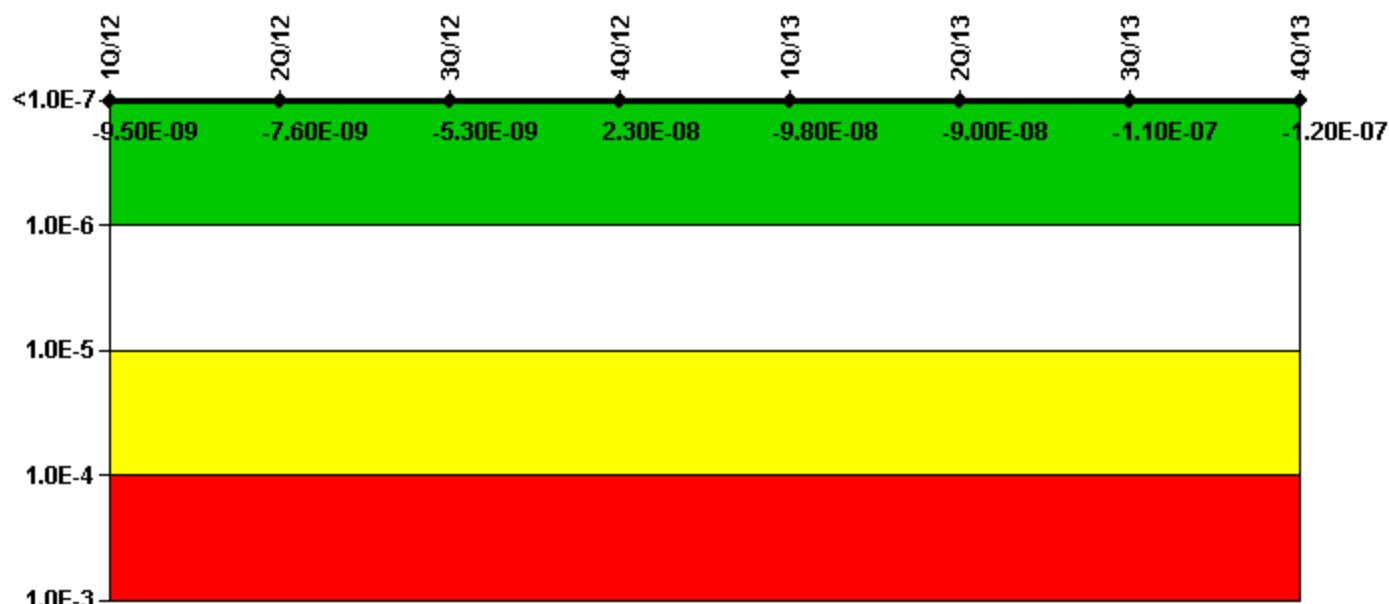
Thresholds: White > 5.0

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



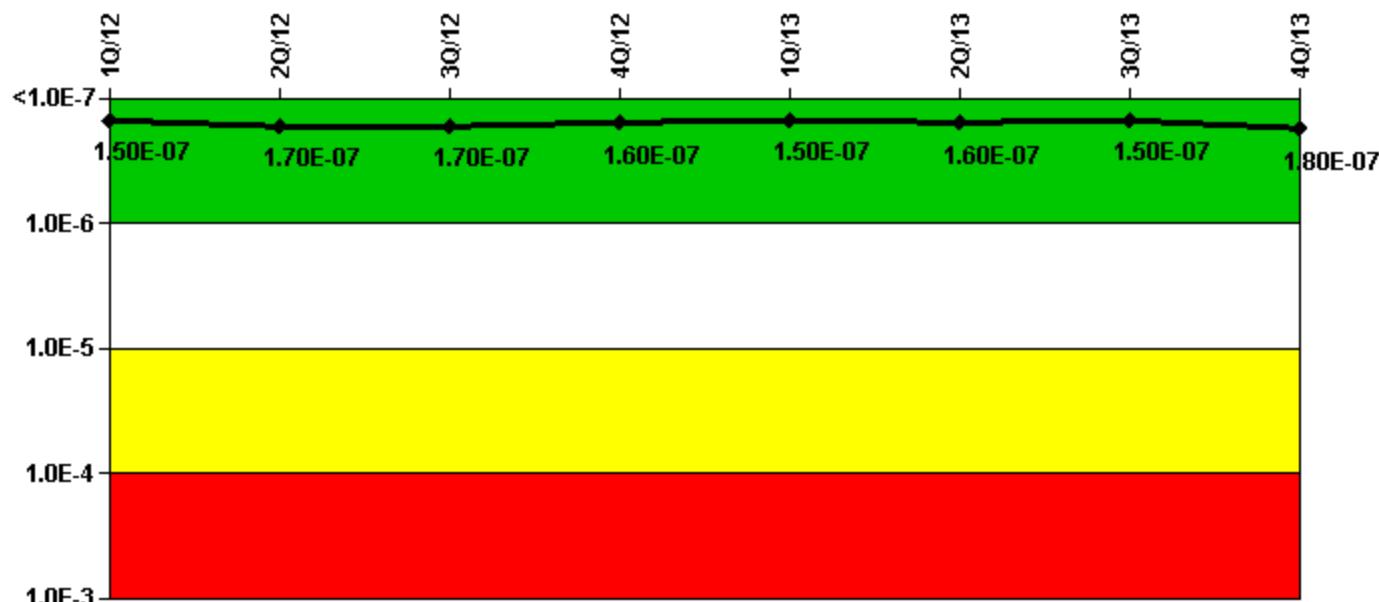
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	6.53E-08	6.53E-08	6.38E-08	8.52E-08	3.93E-08	4.49E-08	3.19E-08	1.31E-08
URI (Δ CDF)	-7.48E-08	-7.29E-08	-6.91E-08	-6.22E-08	-1.38E-07	-1.35E-07	-1.39E-07	-1.35E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.50E-09	-7.60E-09	-5.30E-09	2.30E-08	-9.80E-08	-9.00E-08	-1.10E-07	-1.20E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



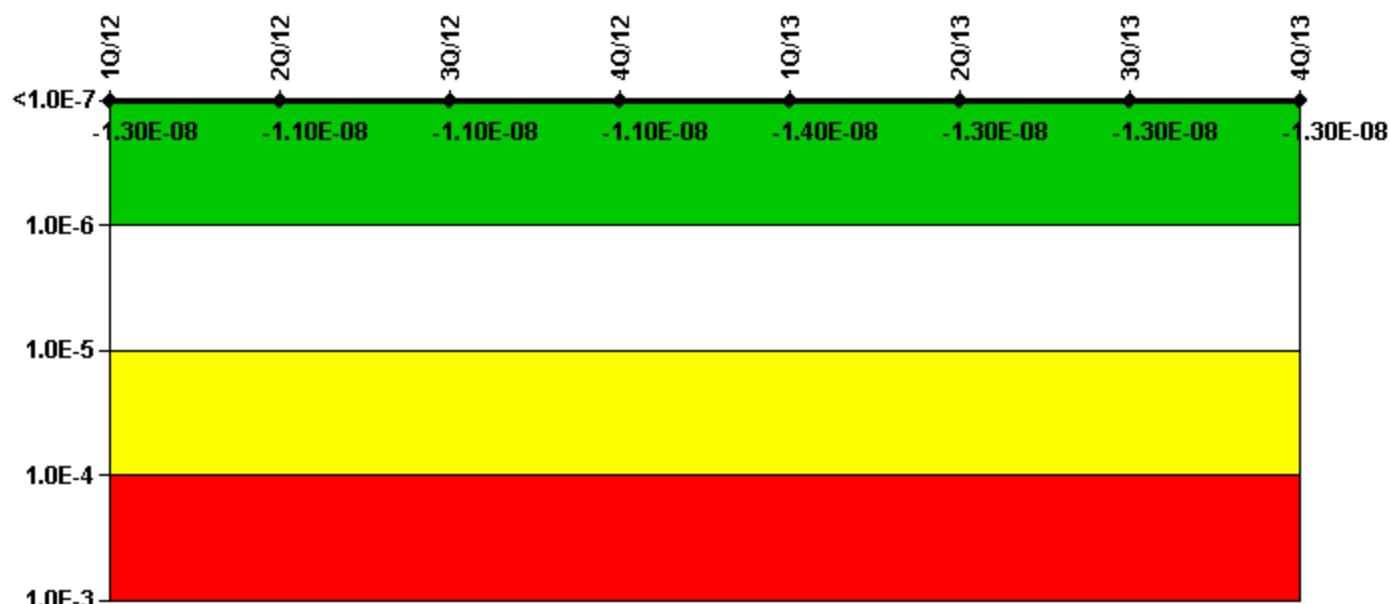
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	4.27E-08	5.53E-08	6.19E-08	4.62E-08	5.50E-08	6.62E-08	6.30E-08	9.11E-08
URI (Δ CDF)	1.09E-07	1.11E-07	1.12E-07	1.09E-07	9.58E-08	9.47E-08	9.20E-08	8.87E-08
PLE	NO							
Indicator value	1.50E-07	1.70E-07	1.70E-07	1.60E-07	1.50E-07	1.60E-07	1.50E-07	1.80E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



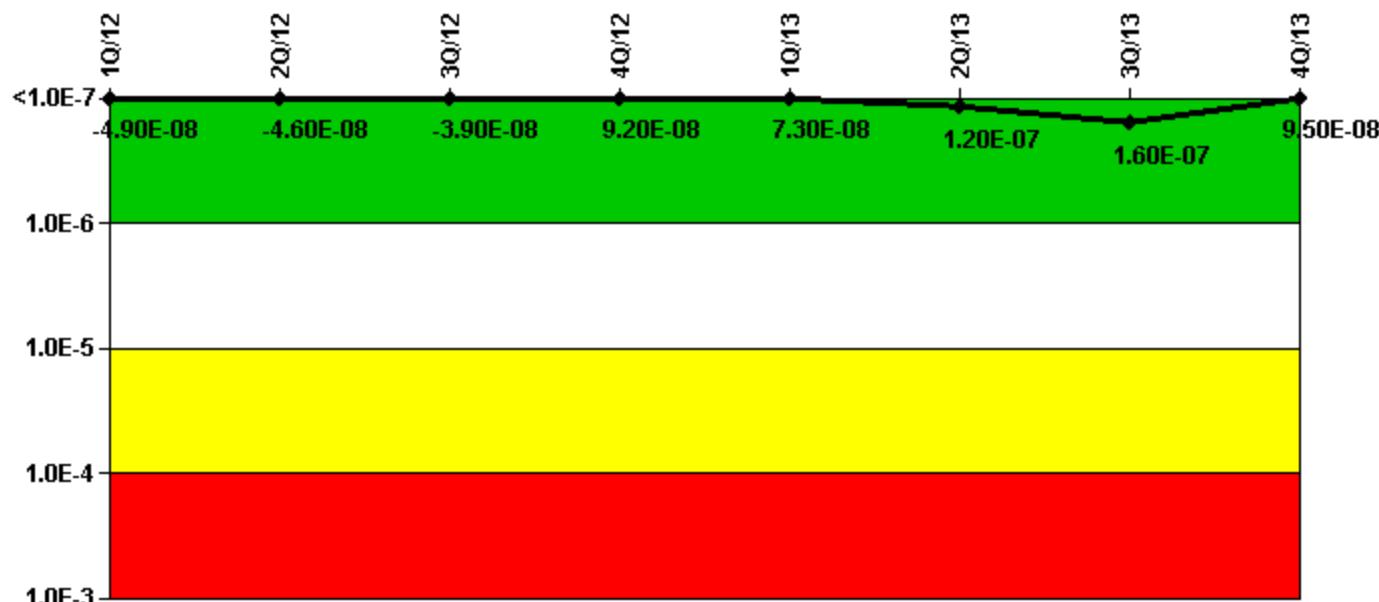
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-2.46E-09	-8.59E-10	-8.25E-10	-7.43E-10	-2.88E-09	-2.44E-09	-3.08E-09	-2.04E-09
URI (Δ CDF)	-1.06E-08	-1.03E-08	-1.02E-08	-1.02E-08	-1.06E-08	-1.06E-08	-1.04E-08	-1.08E-08
PLE	NO							
Indicator value	-1.30E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.40E-08	-1.30E-08	-1.30E-08	-1.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



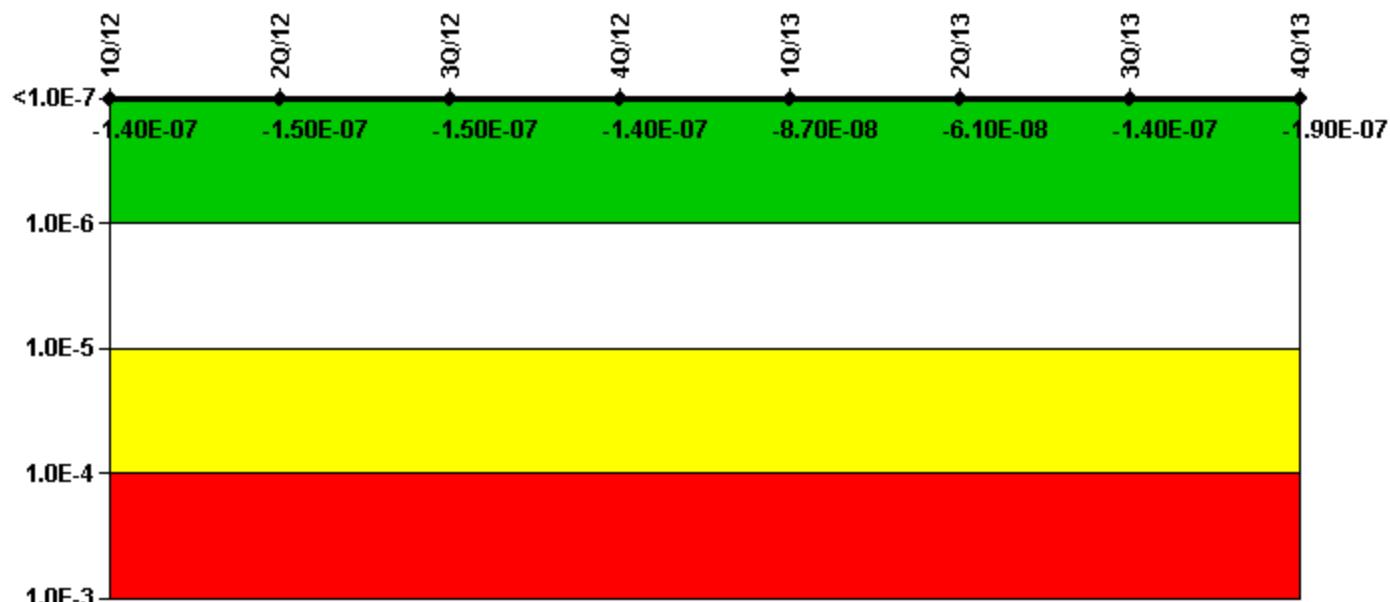
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-4.43E-08	-4.10E-08	-3.45E-08	9.07E-08	7.29E-08	1.19E-07	1.58E-07	9.51E-08
URI (Δ CDF)	-4.61E-09	-4.62E-09	-4.47E-09	1.39E-09	-1.28E-10	-1.54E-10	-3.66E-10	-1.79E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.90E-08	-4.60E-08	-3.90E-08	9.20E-08	7.30E-08	1.20E-07	1.60E-07	9.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



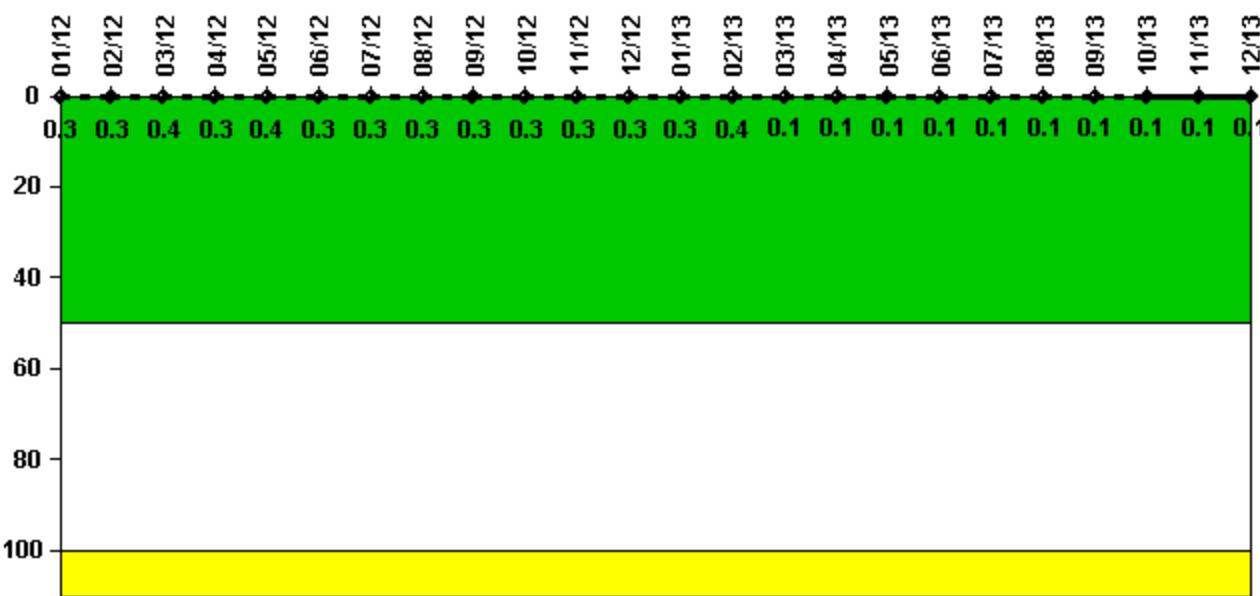
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	9.35E-08	8.44E-08	9.11E-08	9.61E-08	1.51E-07	1.77E-07	9.51E-08	5.06E-08
URI (Δ CDF)	-2.38E-07							
PLE	NO							
Indicator value	-1.40E-07	-1.50E-07	-1.50E-07	-1.40E-07	-8.70E-08	-6.10E-08	-1.40E-07	-1.90E-07

Licensee Comments: none

Reactor Coolant System Activity



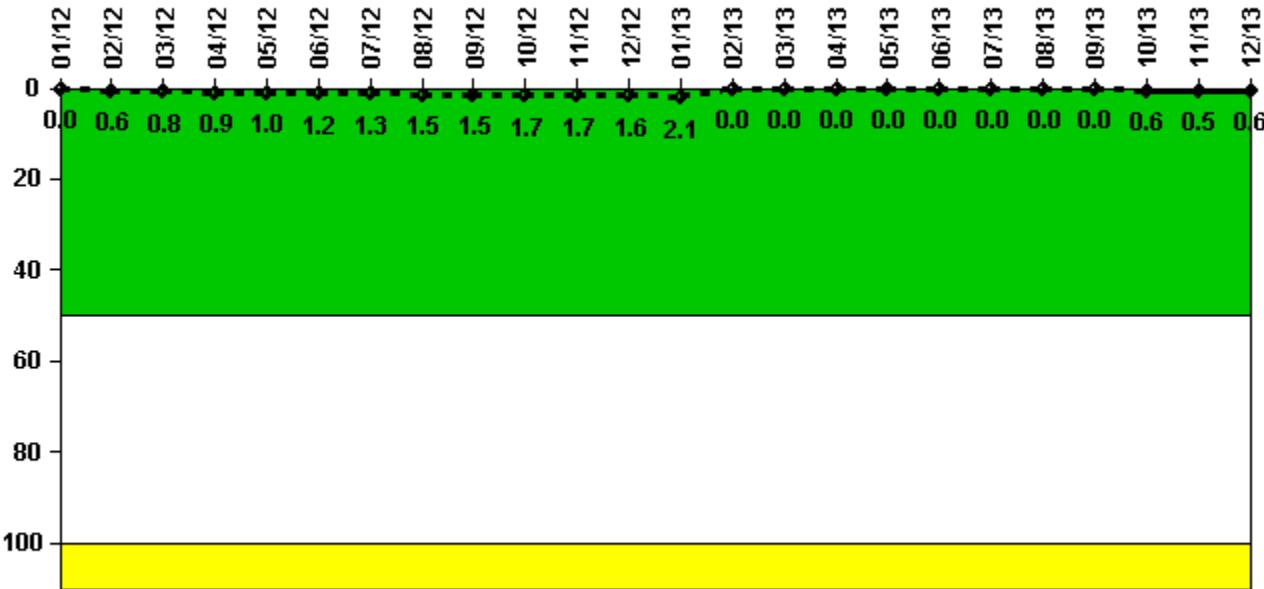
Thresholds: White > 50.0 Yellow > 100.0

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	0.001270	0.001420	0.001770	0.001310	0.001780	0.001430	0.001370	0.001400	0.001460	0.001550	0.001540	0.001590
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.3	0.3	0.4	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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	0.001660	0.001760	0.000316	0.000536	0.000257	0.000617	0.000583	0.000645	0.000693	0.000725	0.000610	0.000586
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.3	0.4	0.1	0.1	0.1	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

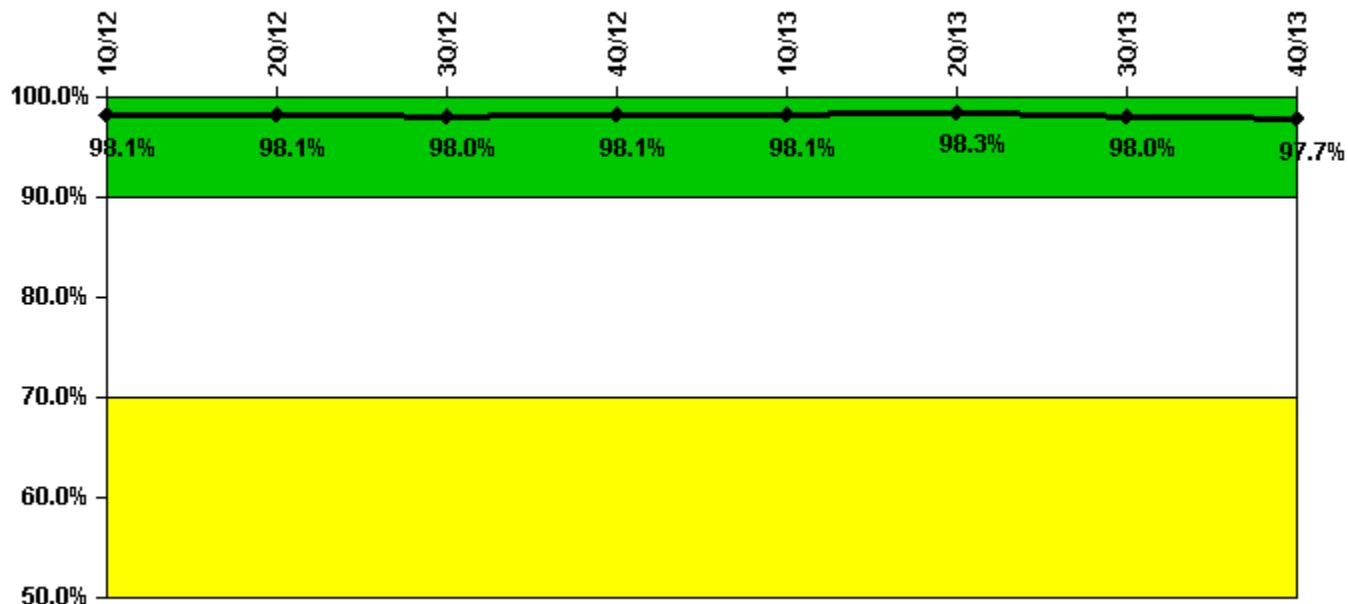
Reactor Coolant System Leakage	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum leakage	0	0.060	0.080	0.090	0.100	0.120	0.130	0.150	0.150	0.170	0.170	0.160
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0.6	0.8	0.9	1.0	1.2	1.3	1.5	1.5	1.7	1.7	1.6
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	0.210	0	0	0	0	0	0	0	0	0.060	0.050	0.060
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	2.1	0	0.6	0.5	0.6							

Licensee Comments:

6/12: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

3/12: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.

Drill/Exercise Performance



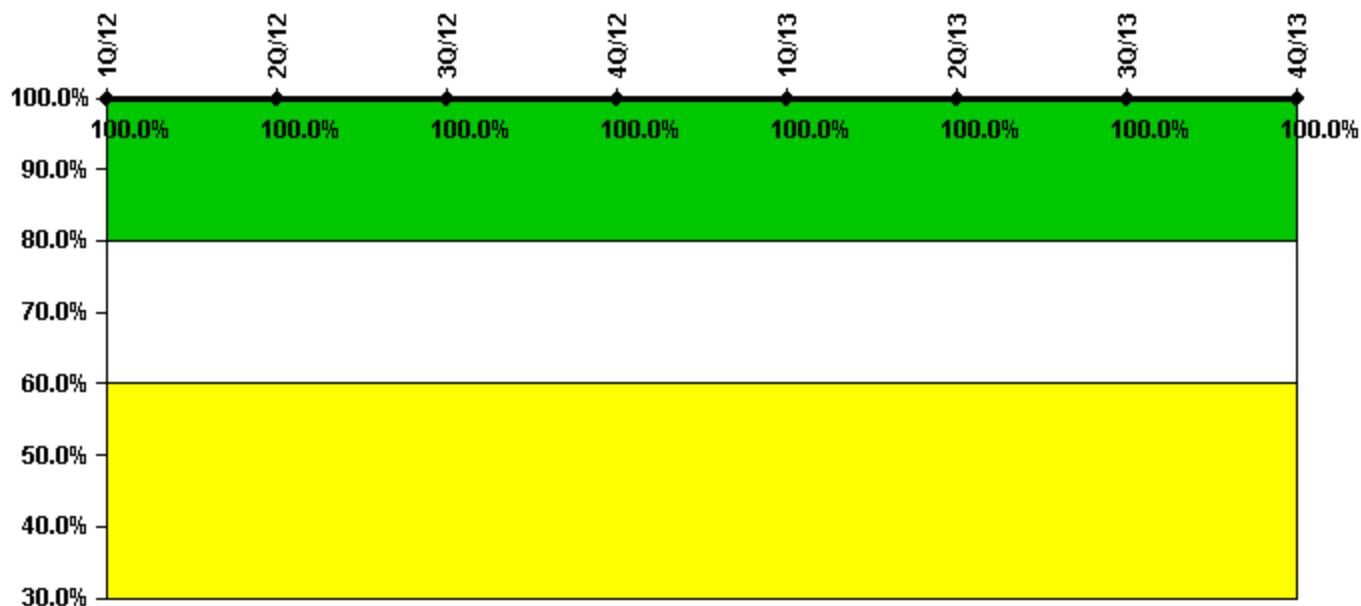
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful opportunities	5.0	25.0	12.0	67.0	2.0	32.0	53.0	61.0
Total opportunities	5.0	25.0	13.0	68.0	2.0	32.0	54.0	64.0
Indicator value	98.1%	98.1%	98.0%	98.1%	98.1%	98.3%	98.0%	97.7%

Licensee Comments: none

ERO Drill Participation



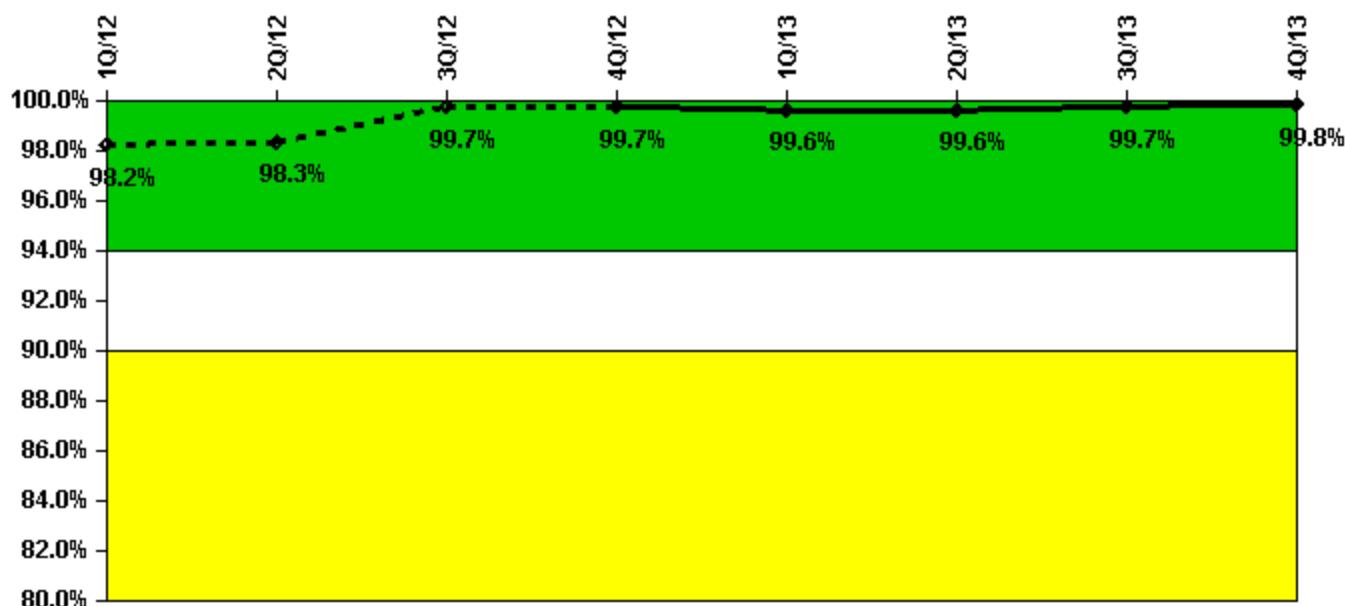
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Participating Key personnel	86.0	80.0	83.0	84.0	79.0	79.0	80.0	86.0
Total Key personnel	86.0	80.0	83.0	84.0	79.0	79.0	80.0	86.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



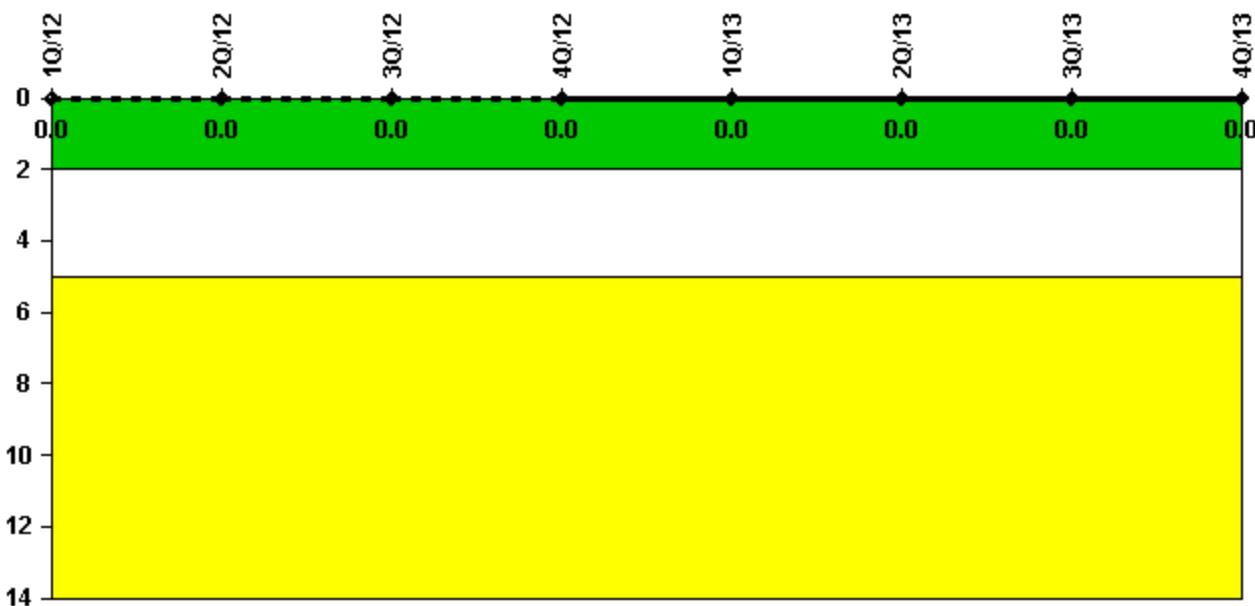
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful siren-tests	947	948	945	1016	871	948	971	947
Total sirens-tests	949	949	949	1022	876	949	972	949
Indicator value	98.2%	98.3%	99.7%	99.7%	99.6%	99.6%	99.7%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



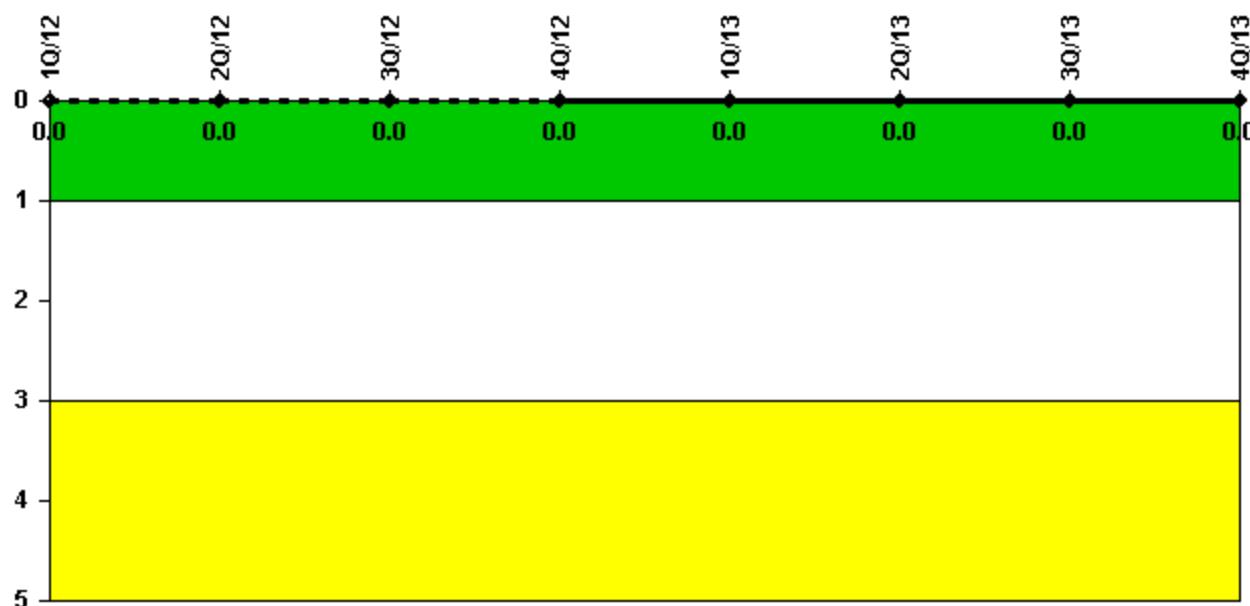
Thresholds: White > 2.0 Yellow > 5.0

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

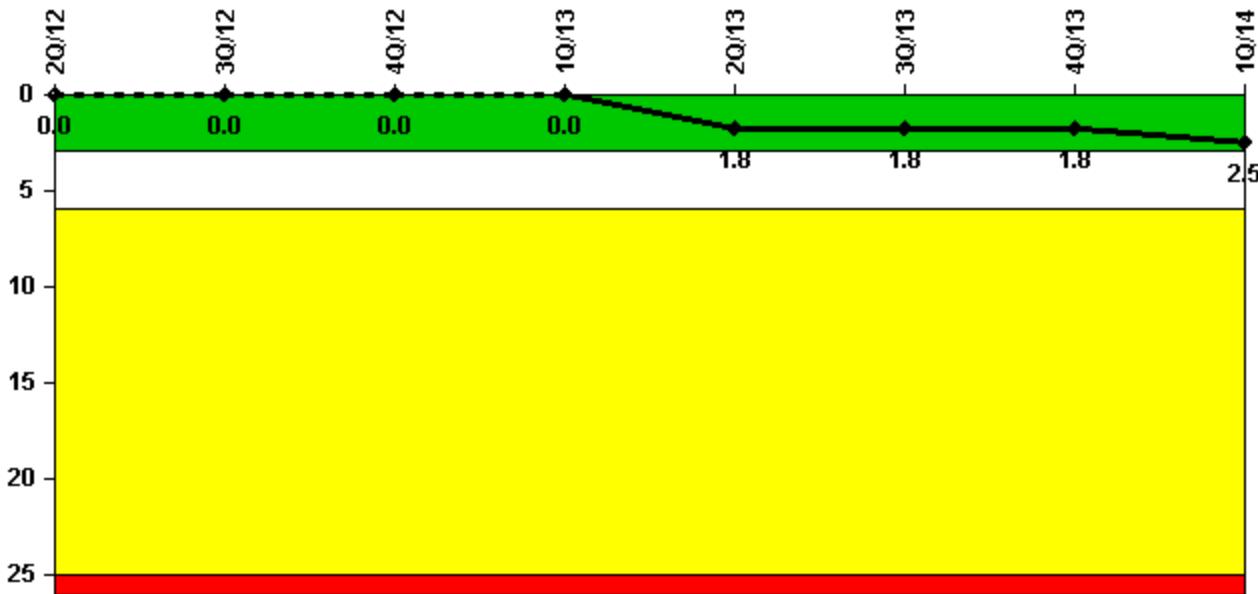
Calvert Cliffs 2

1Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



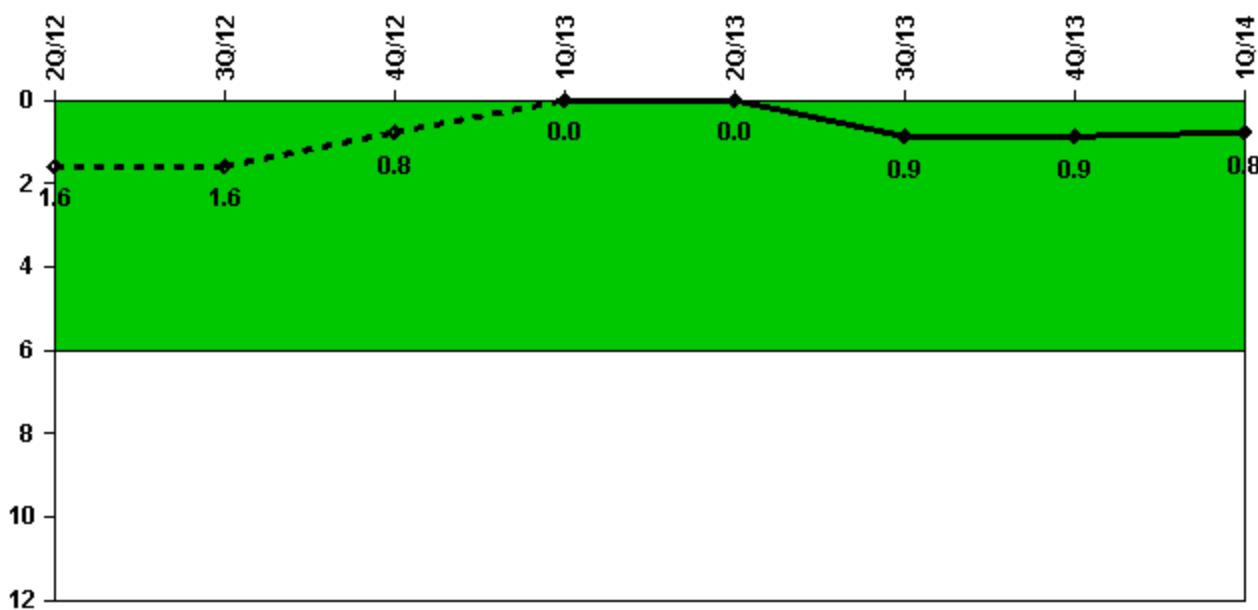
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	2.0	0	0	1.0
Critical hours	2184.0	2208.0	2209.0	1323.2	2076.8	2104.1	2209.0	2079.5
Indicator value	0	0	0	0	1.8	1.8	1.8	2.5

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

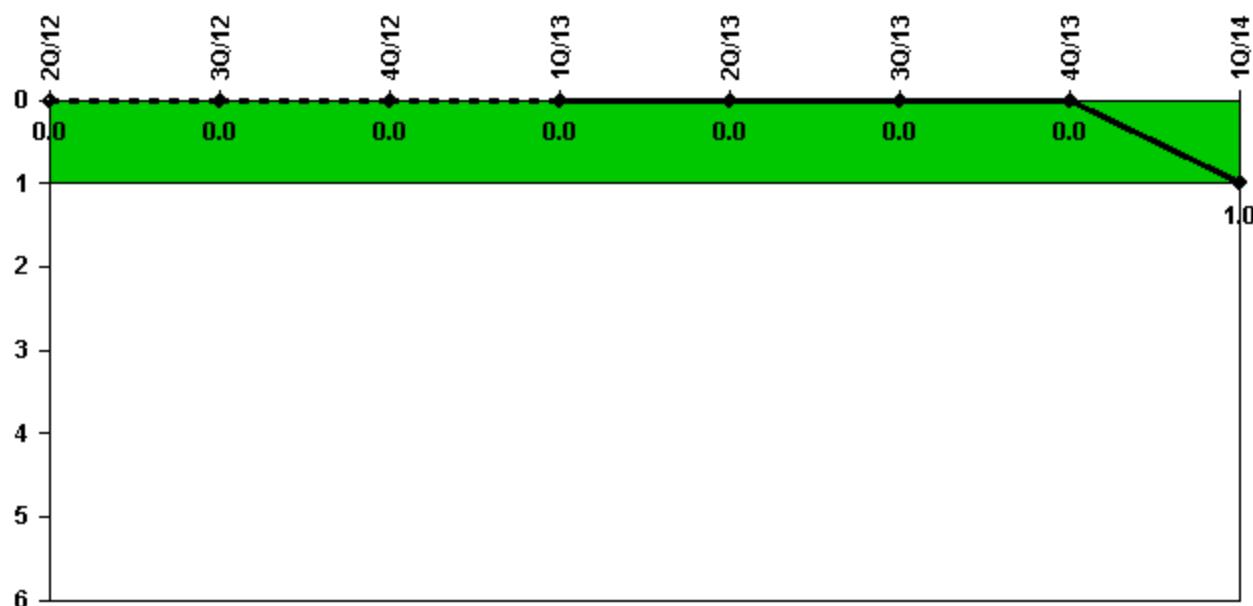


Thresholds: White > 6.0

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	0	0	0	1.0	0	0
Critical hours	2184.0	2208.0	2209.0	1323.2	2076.8	2104.1	2209.0	2079.5
Indicator value	1.6	1.6	0.8	0	0	0.9	0.9	0.8

Licensee Comments: none

Unplanned Scrams with Complications

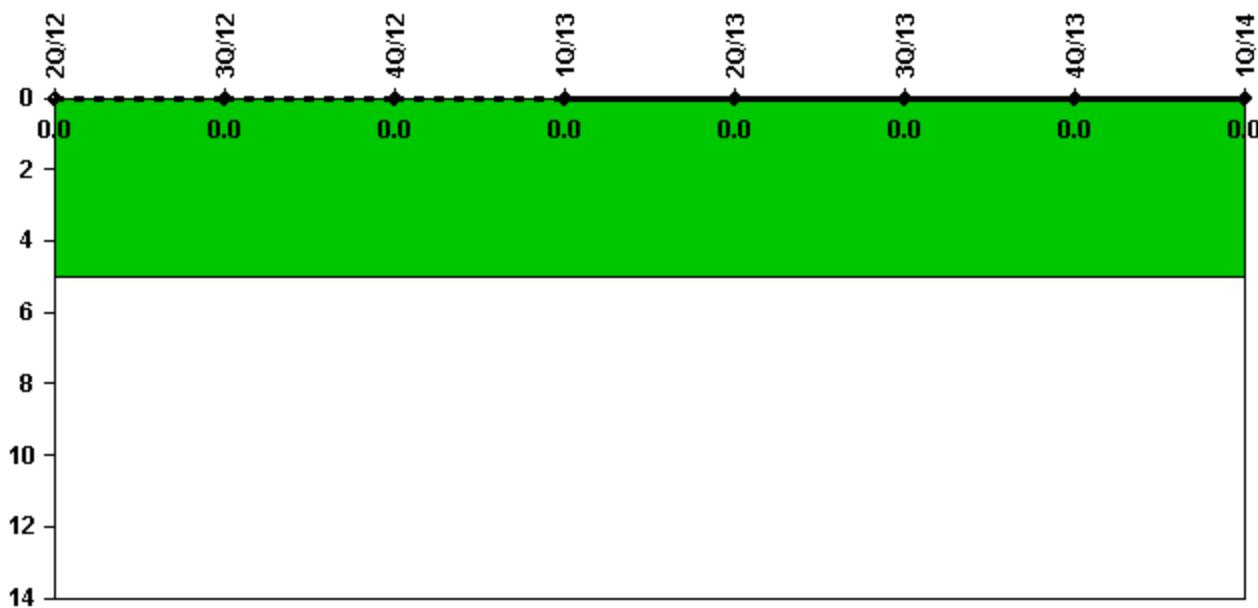
Thresholds: White > 1.0

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	1.0
Indicator value	0.0	1.0						

Licensee Comments: none

Safety System Functional Failures (PWR)



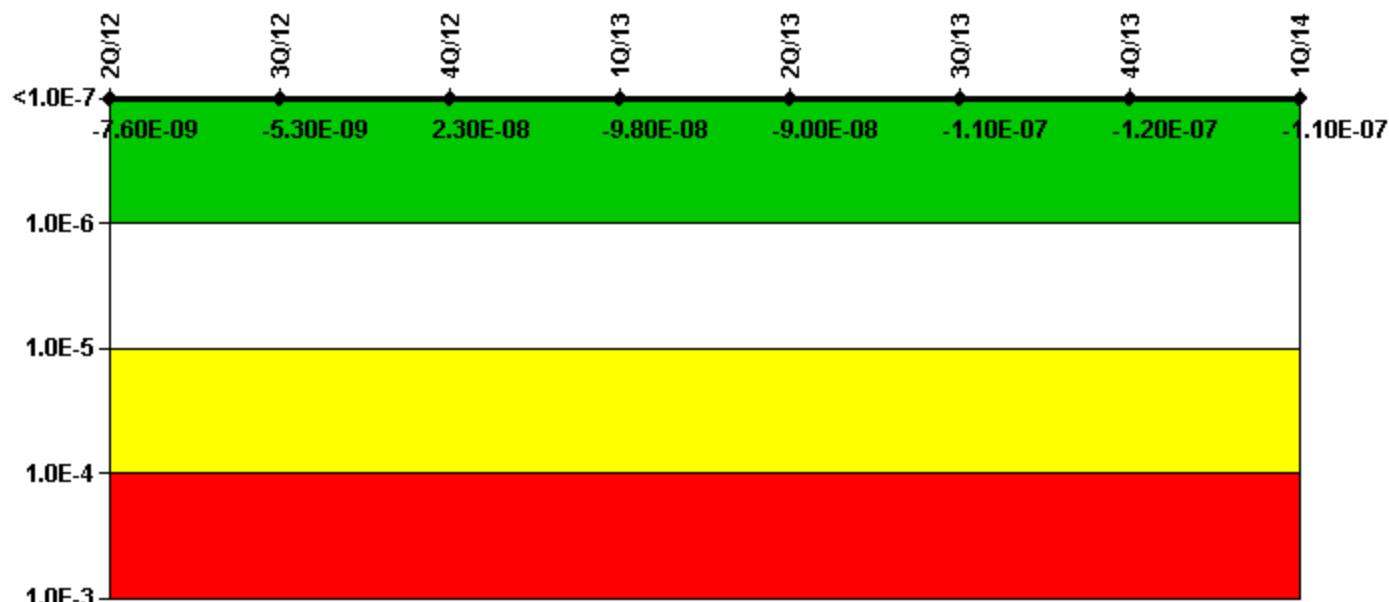
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	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



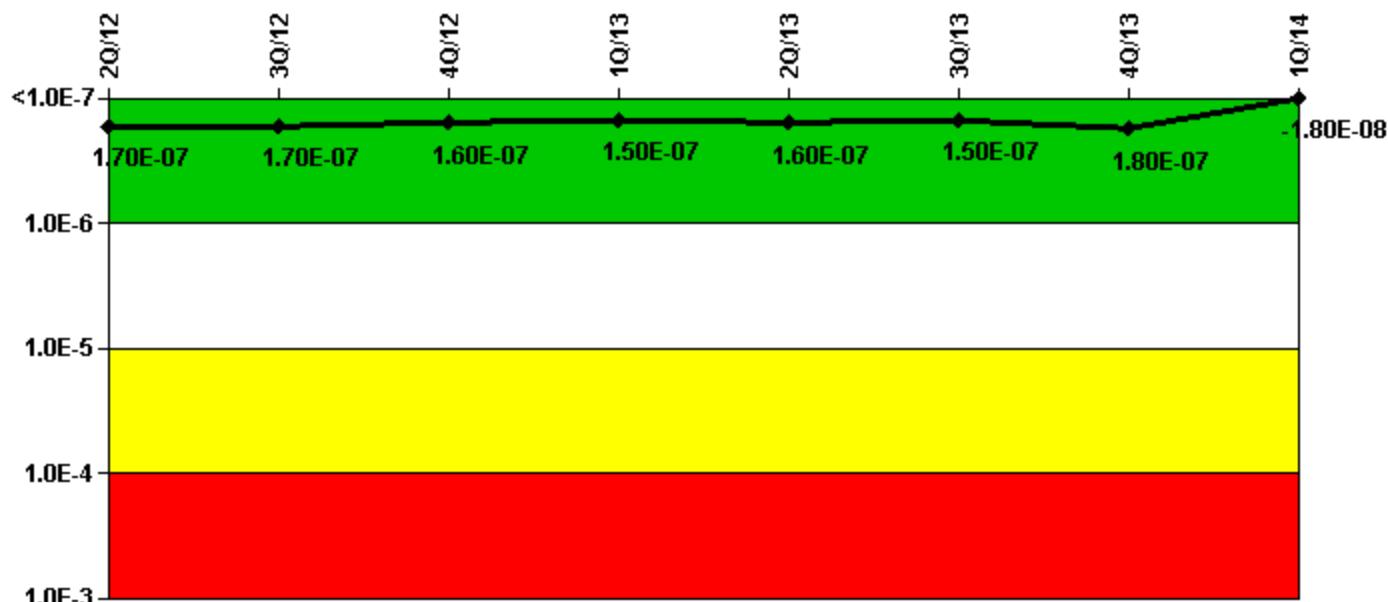
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	6.53E-08	6.38E-08	8.52E-08	3.93E-08	4.49E-08	3.19E-08	1.31E-08	2.19E-08
URI (Δ CDF)	-7.29E-08	-6.91E-08	-6.22E-08	-1.38E-07	-1.35E-07	-1.39E-07	-1.35E-07	-1.27E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.60E-09	-5.30E-09	2.30E-08	-9.80E-08	-9.00E-08	-1.10E-07	-1.20E-07	-1.10E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



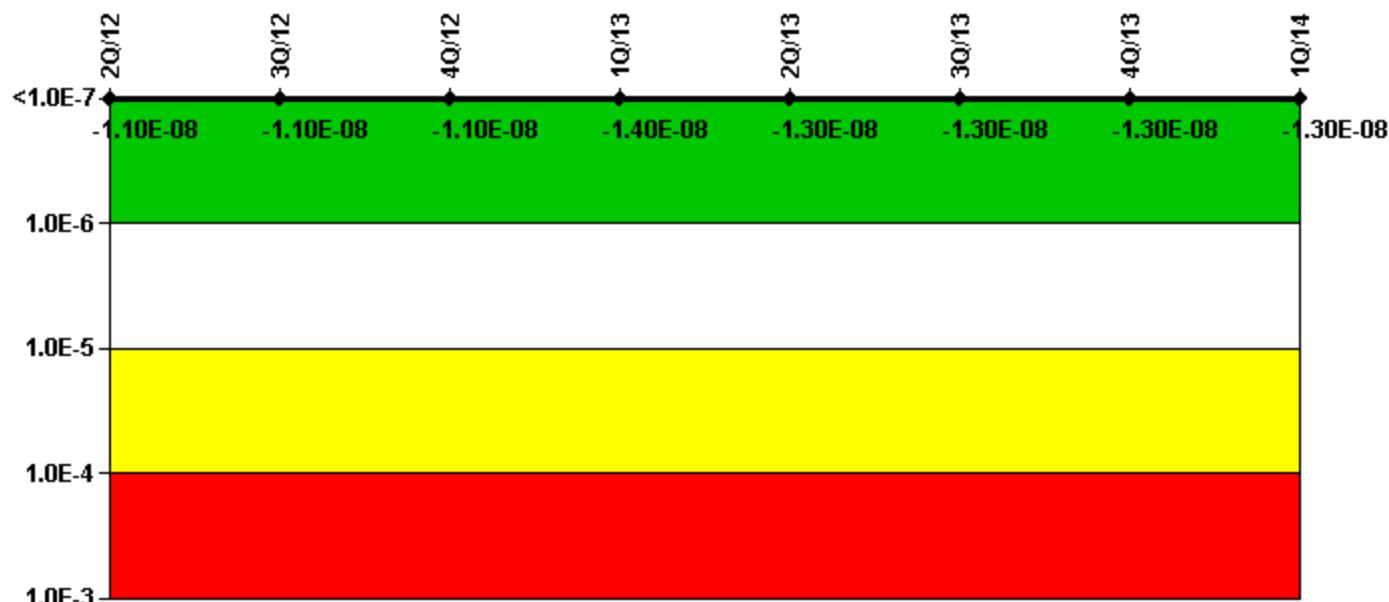
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (Δ CDF)	5.53E-08	6.19E-08	4.62E-08	5.50E-08	6.62E-08	6.30E-08	9.11E-08	2.81E-08
URI (Δ CDF)	1.11E-07	1.12E-07	1.09E-07	9.58E-08	9.47E-08	9.20E-08	8.87E-08	-4.60E-08
PLE	NO							
Indicator value	1.70E-07	1.70E-07	1.60E-07	1.50E-07	1.60E-07	1.50E-07	1.80E-07	-1.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



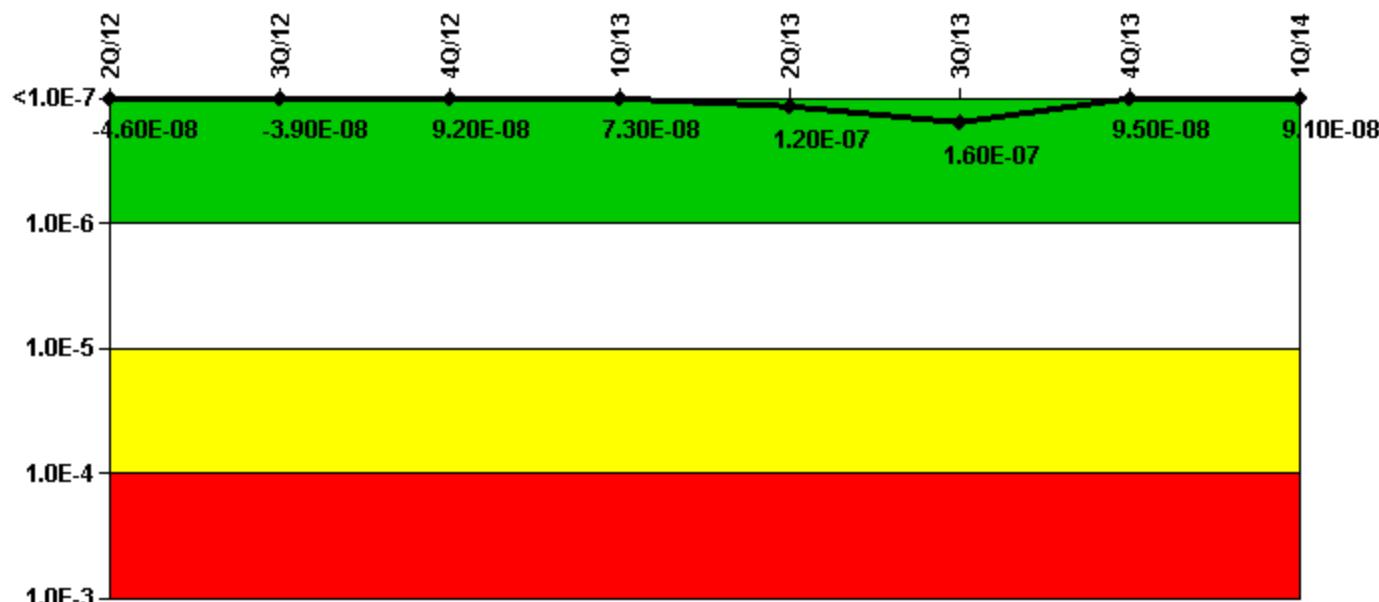
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (Δ CDF)	-8.59E-10	-8.25E-10	-7.43E-10	-2.88E-09	-2.44E-09	-3.08E-09	-2.04E-09	-2.70E-09
URI (Δ CDF)	-1.03E-08	-1.02E-08	-1.02E-08	-1.06E-08	-1.06E-08	-1.04E-08	-1.08E-08	-1.03E-08
PLE	NO							
Indicator value	-1.10E-08	-1.10E-08	-1.10E-08	-1.40E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



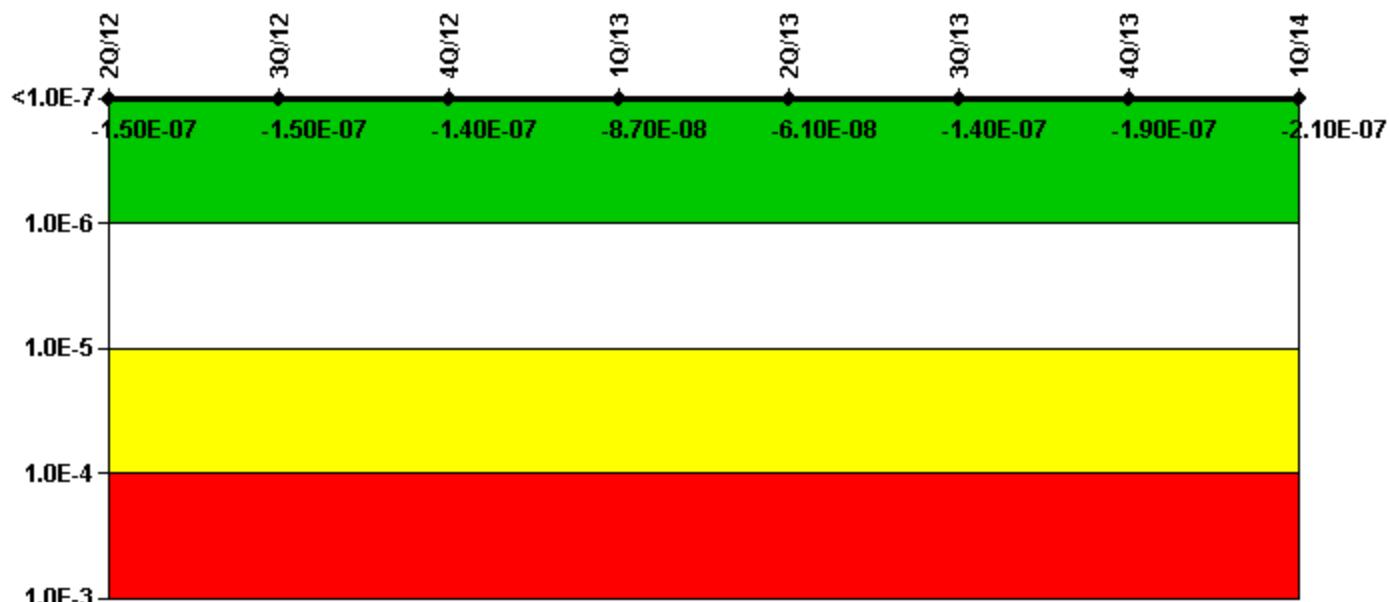
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (Δ CDF)	-4.10E-08	-3.45E-08	9.07E-08	7.29E-08	1.19E-07	1.58E-07	9.51E-08	8.99E-08
URI (Δ CDF)	-4.62E-09	-4.47E-09	1.39E-09	-1.28E-10	-1.54E-10	-3.66E-10	-1.79E-10	9.79E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.60E-08	-3.90E-08	9.20E-08	7.30E-08	1.20E-07	1.60E-07	9.50E-08	9.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



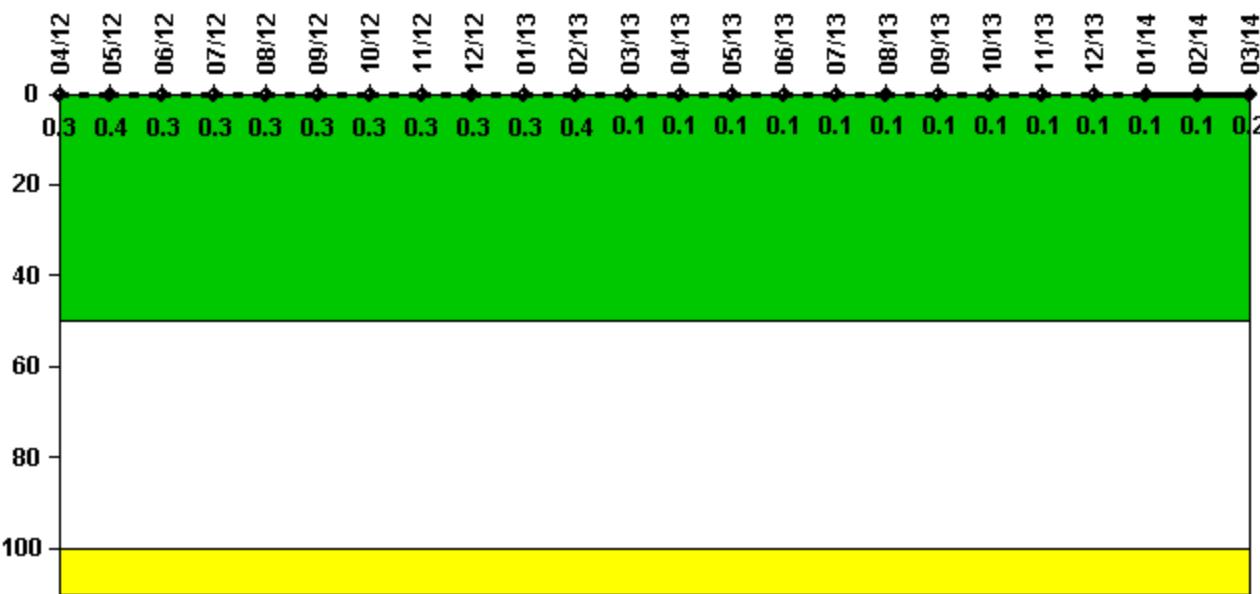
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (Δ CDF)	8.44E-08	9.11E-08	9.61E-08	1.51E-07	1.77E-07	9.51E-08	5.06E-08	2.64E-08
URI (Δ CDF)	-2.38E-07							
PLE	NO							
Indicator value	-1.50E-07	-1.50E-07	-1.40E-07	-8.70E-08	-6.10E-08	-1.40E-07	-1.90E-07	-2.10E-07

Licensee Comments: none

Reactor Coolant System Activity



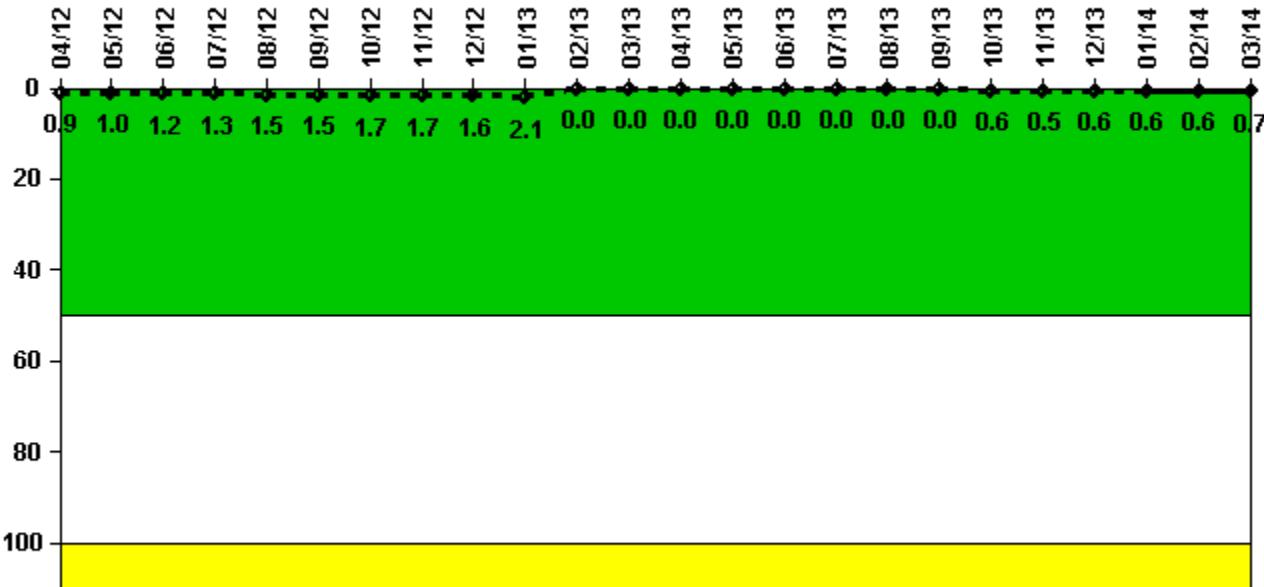
Thresholds: White > 50.0 Yellow > 100.0

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	0.001310	0.001780	0.001430	0.001370	0.001400	0.001460	0.001550	0.001540	0.001590	0.001660	0.001760	0.000316
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.3	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	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	0.000536	0.000257	0.000617	0.000583	0.000645	0.000693	0.000725	0.000610	0.000586	0.000682	0.000681	0.000758
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2

Licensee Comments: none

Reactor Coolant System Leakage



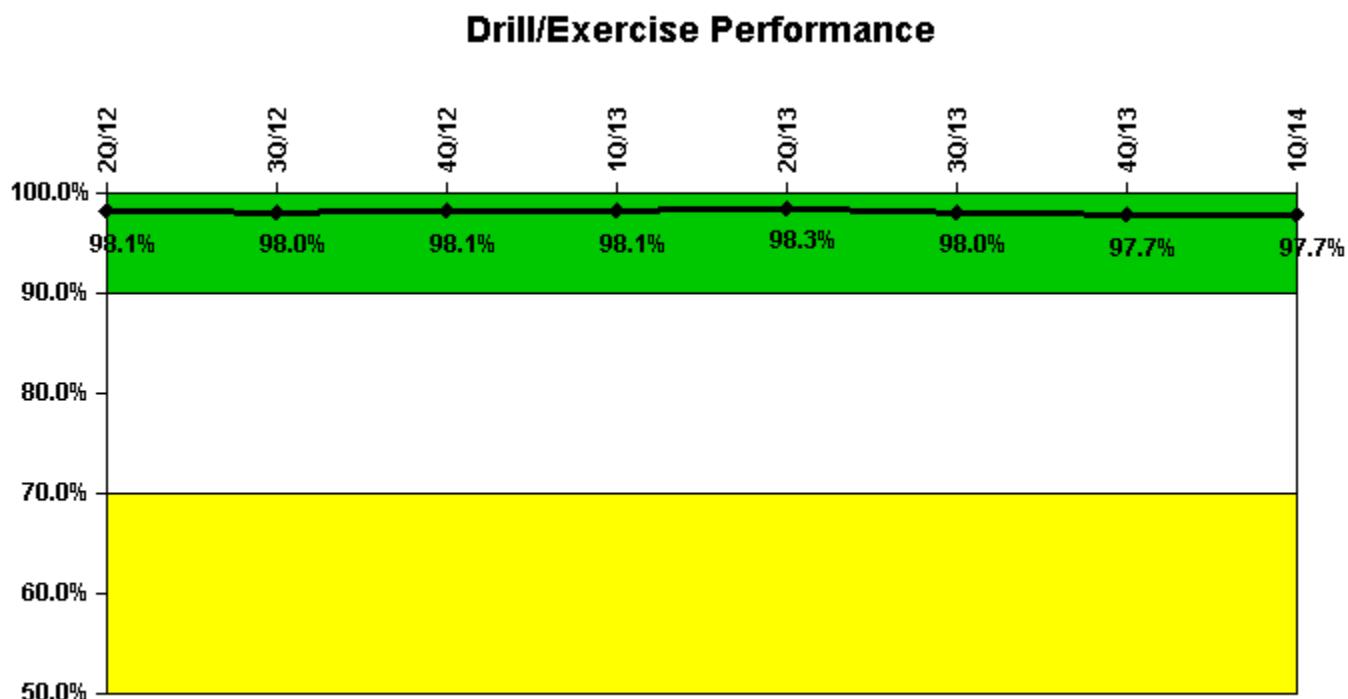
Thresholds: White > 50.0 Yellow > 100.0

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	0.090	0.100	0.120	0.130	0.150	0.150	0.170	0.170	0.160	0.210	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	0.9	1.0	1.2	1.3	1.5	1.5	1.7	1.7	1.6	2.1	0	0
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	0	0	0	0	0	0.060	0.050	0.060	0.060	0.060	0.070
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	0	0	0	0	0	0	0.6	0.5	0.6	0.6	0.6	0.7

Licensee Comments:

6/12: CR-2012-009203. There was conflicting direction in station procedure vs. NEI and TS definitions for RCS Leakage. The corrected method to determine leakage relies exclusively on the NEI TS. 01/04/2013.



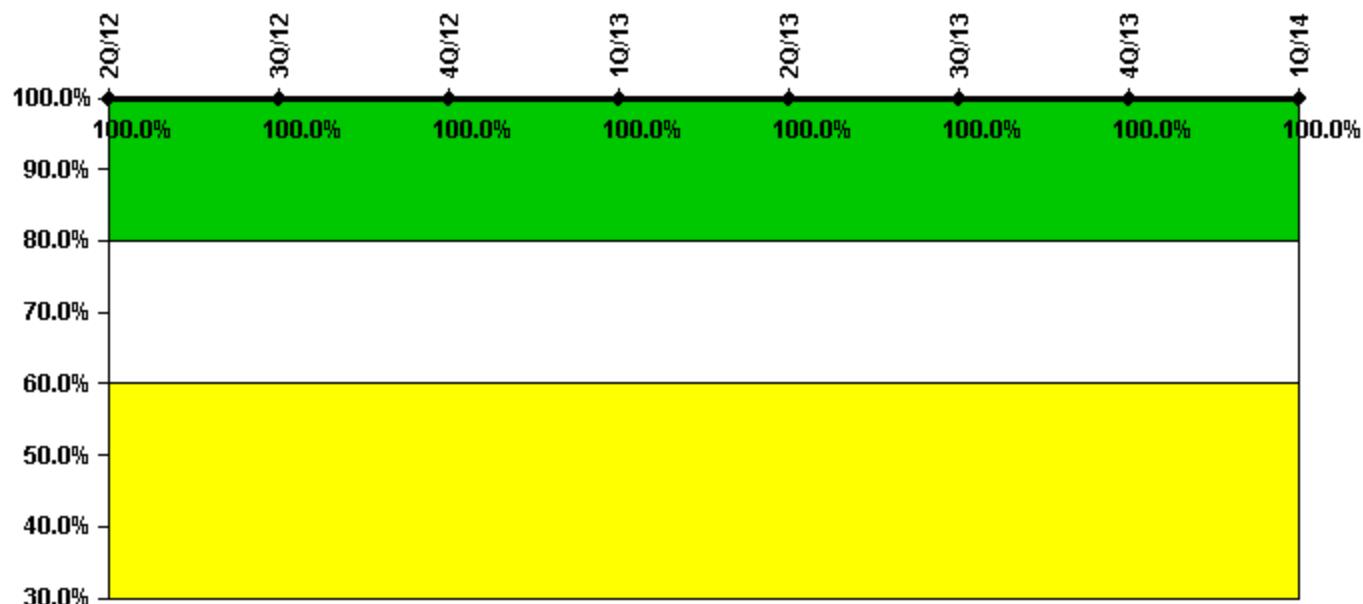
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful opportunities	25.0	12.0	67.0	2.0	32.0	53.0	61.0	4.0
Total opportunities	25.0	13.0	68.0	2.0	32.0	54.0	64.0	4.0
Indicator value	98.1%	98.0%	98.1%	98.1%	98.3%	98.0%	97.7%	97.7%

Licensee Comments: none

ERO Drill Participation



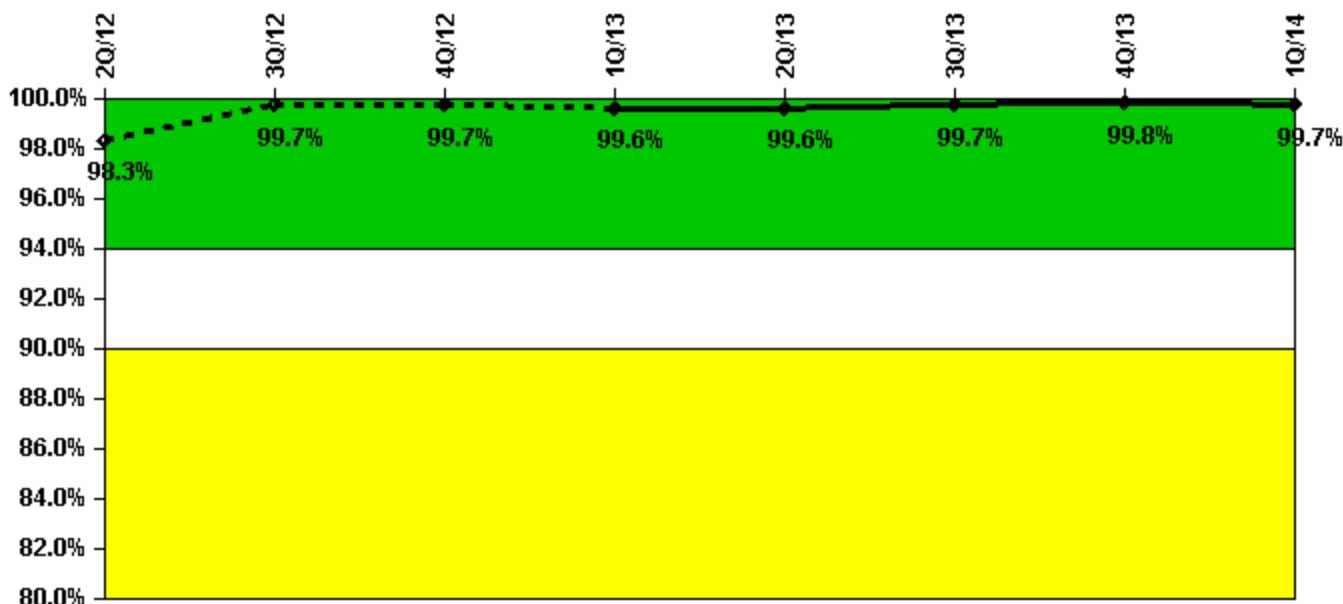
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Participating Key personnel	80.0	83.0	84.0	79.0	79.0	80.0	86.0	50.0
Total Key personnel	80.0	83.0	84.0	79.0	79.0	80.0	86.0	50.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



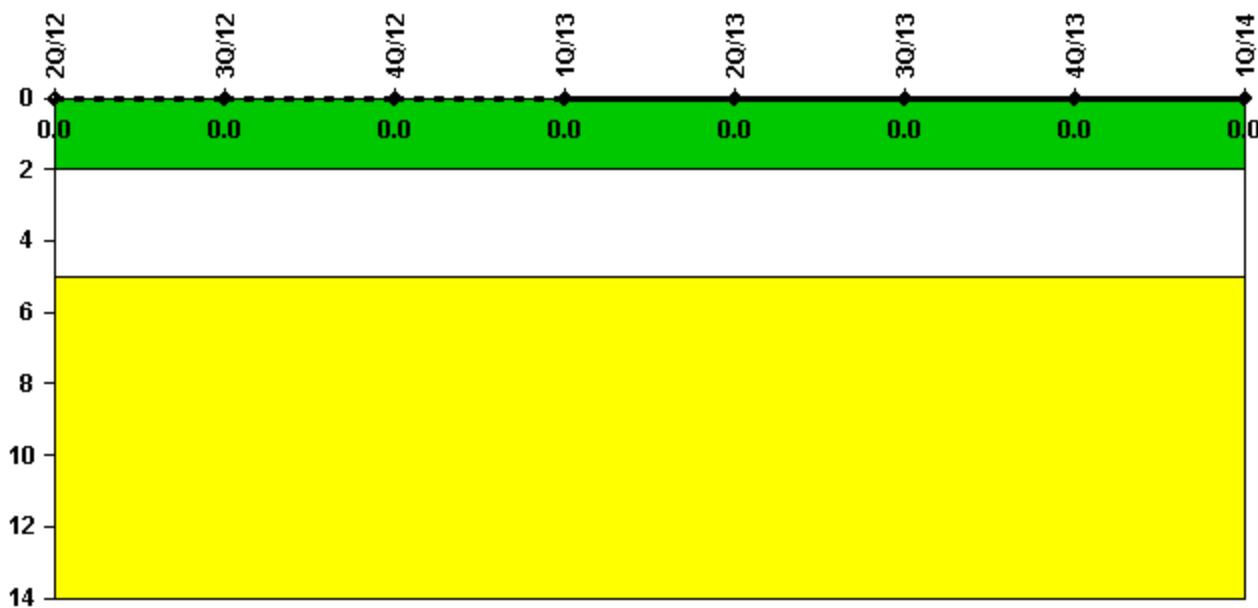
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful siren-tests	948	945	1016	871	948	971	947	943
Total sirens-tests	949	949	1022	876	949	972	949	949
Indicator value	98.3%	99.7%	99.7%	99.6%	99.6%	99.7%	99.8%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



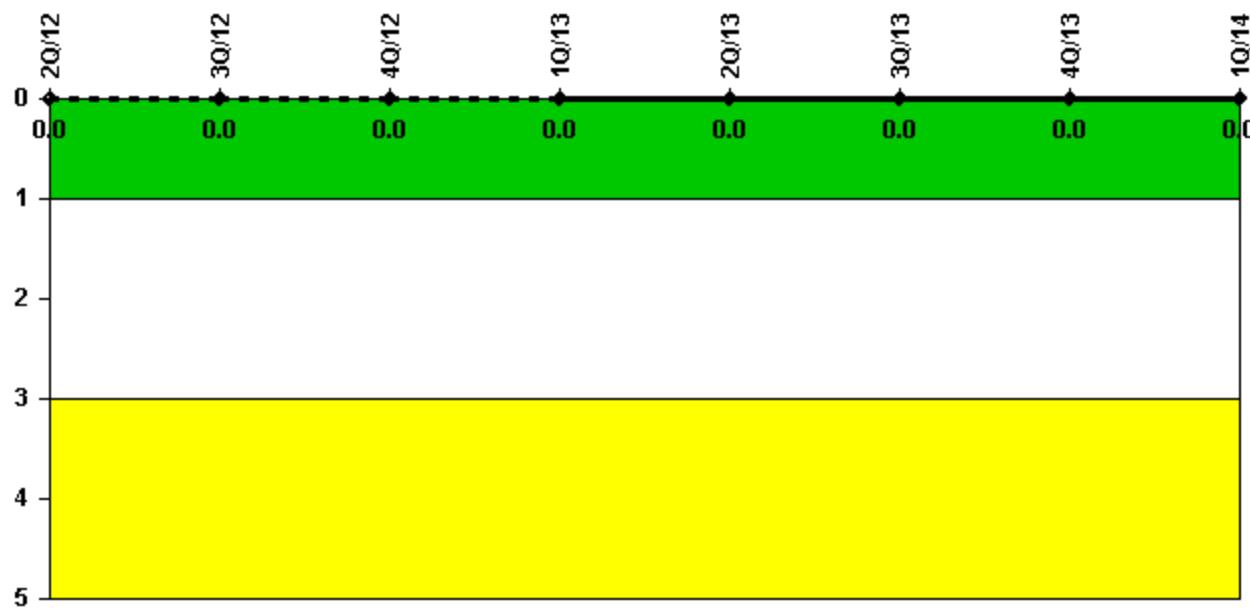
Thresholds: White > 2.0 Yellow > 5.0

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

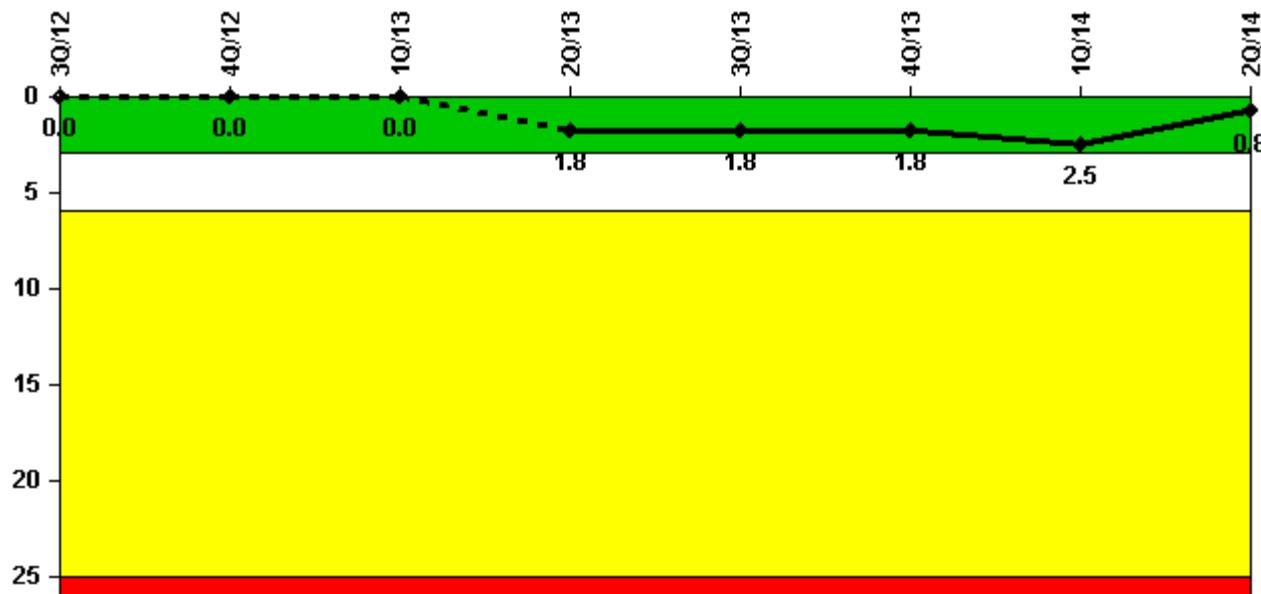
Calvert Cliffs 2

2Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



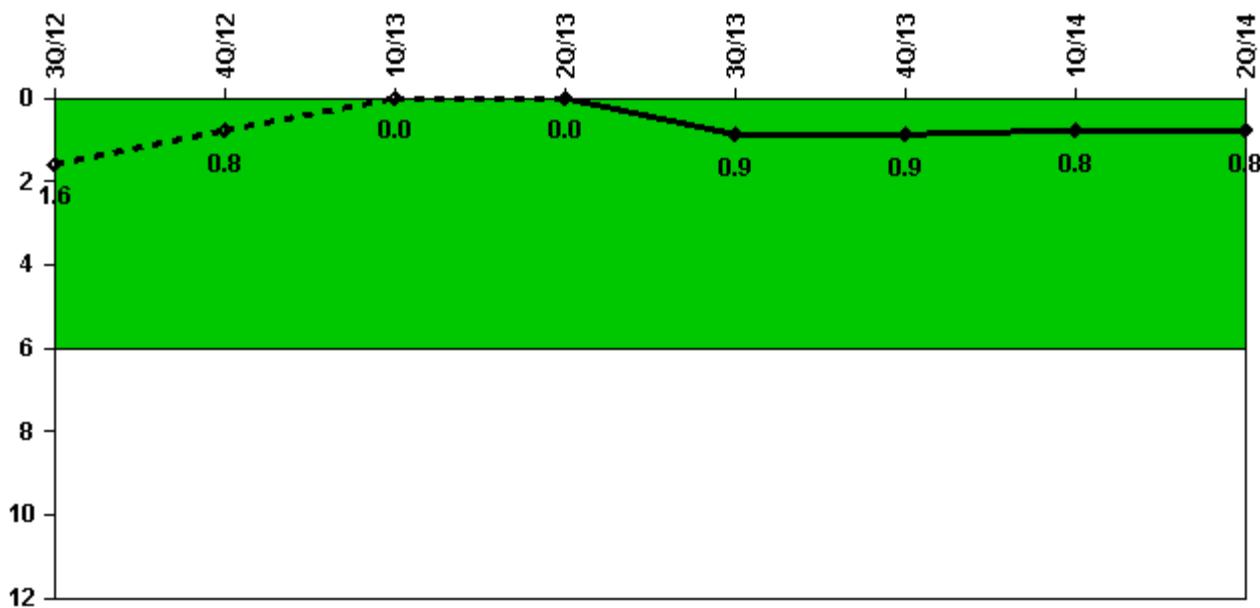
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	2.0	0	0	1.0	0
Critical hours	2208.0	2209.0	1323.2	2076.8	2104.1	2209.0	2079.5	2184.0
Indicator value	0	0	0	1.8	1.8	1.8	2.5	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



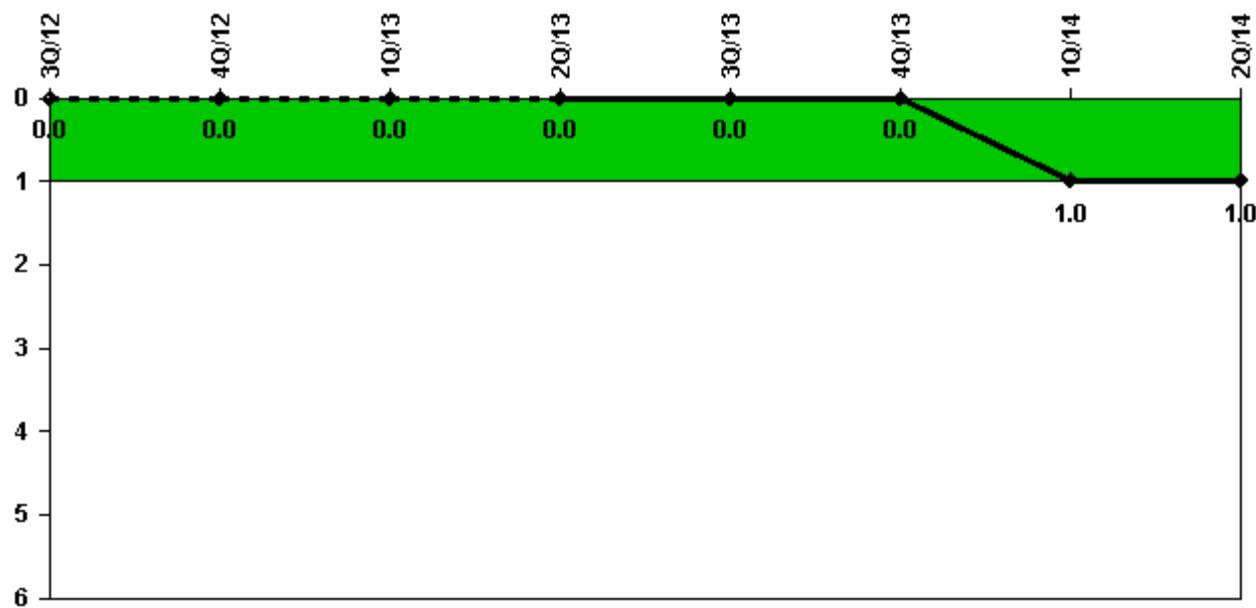
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2208.0	2209.0	1323.2	2076.8	2104.1	2209.0	2079.5	2184.0
Indicator value	1.6	0.8	0	0	0.9	0.9	0.8	0.8

Licensee Comments: none

Unplanned Scrams with Complications



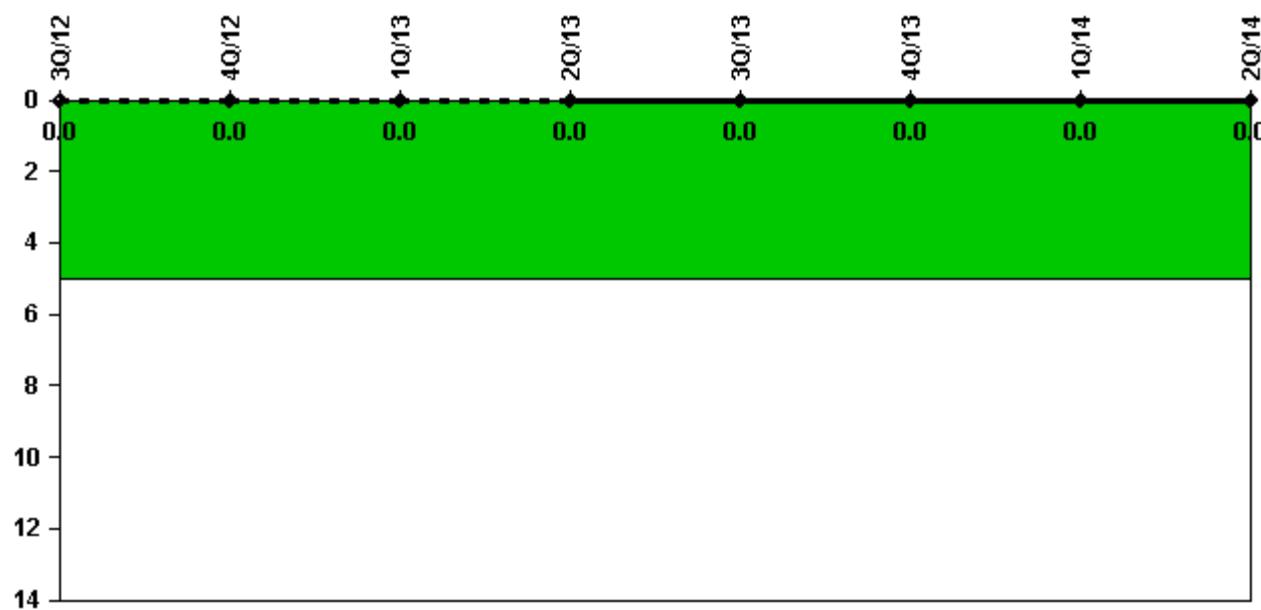
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	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	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)



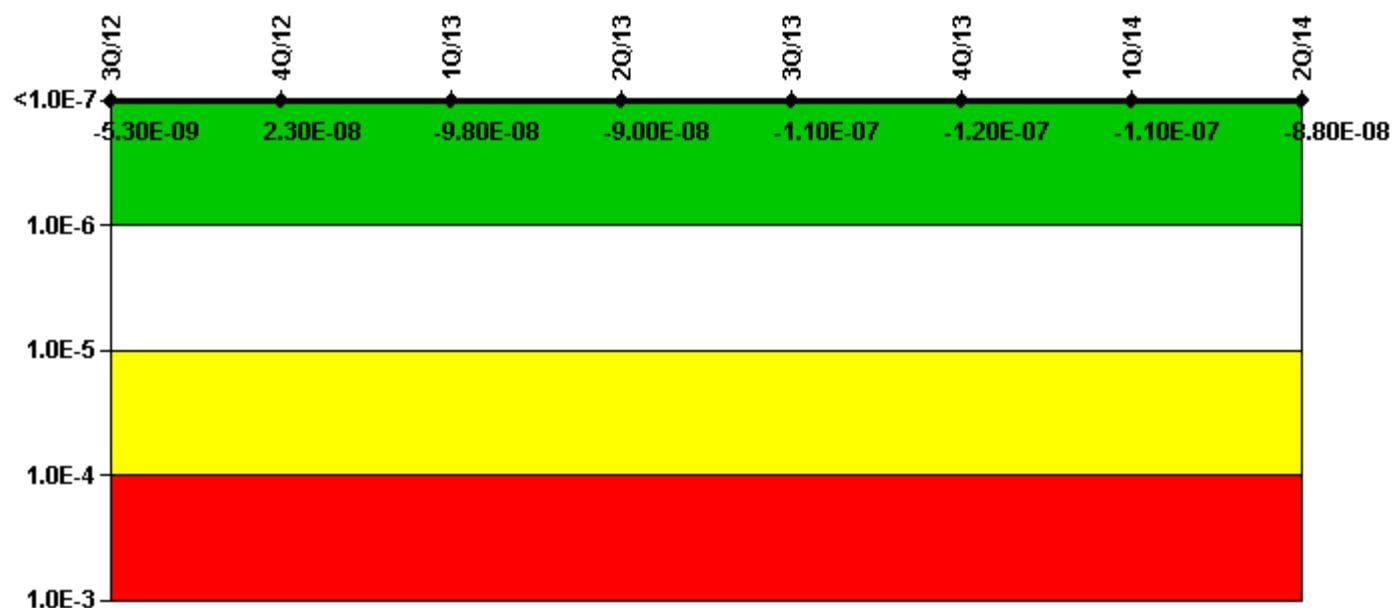
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	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



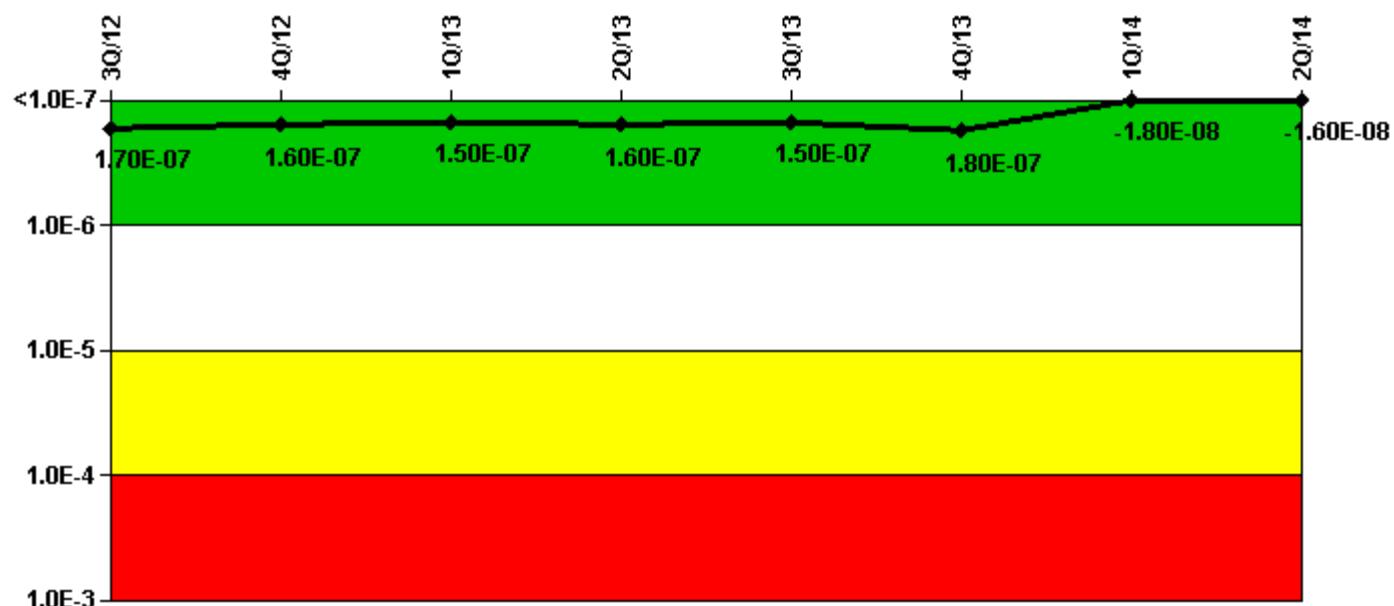
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	6.38E-08	8.52E-08	3.93E-08	4.49E-08	3.19E-08	1.31E-08	2.19E-08	4.11E-08
URI (Δ CDF)	-6.91E-08	-6.22E-08	-1.38E-07	-1.35E-07	-1.39E-07	-1.35E-07	-1.27E-07	-1.29E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.30E-09	2.30E-08	-9.80E-08	-9.00E-08	-1.10E-07	-1.20E-07	-1.10E-07	-8.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



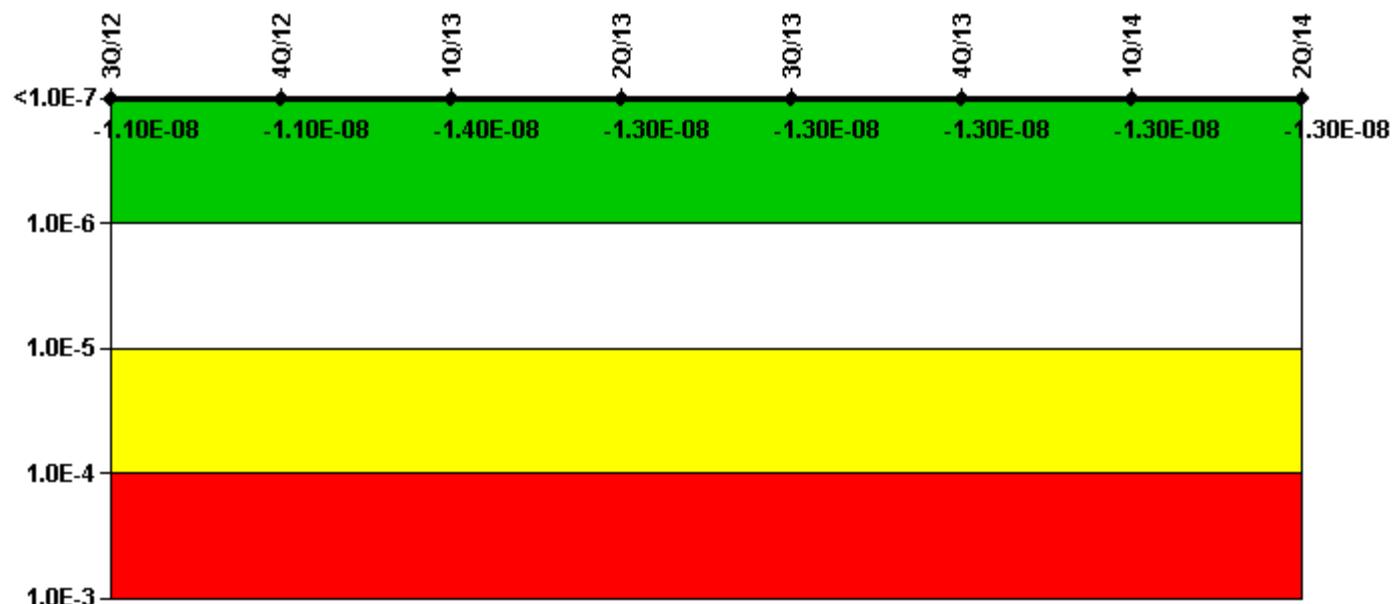
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (Δ CDF)	6.19E-08	4.62E-08	5.50E-08	6.62E-08	6.30E-08	9.11E-08	2.81E-08	3.06E-08
URI (Δ CDF)	1.12E-07	1.09E-07	9.58E-08	9.47E-08	9.20E-08	8.87E-08	-4.60E-08	-4.68E-08
PLE	NO	NO						
Indicator value	1.70E-07	1.60E-07	1.50E-07	1.60E-07	1.50E-07	1.80E-07	-1.80E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



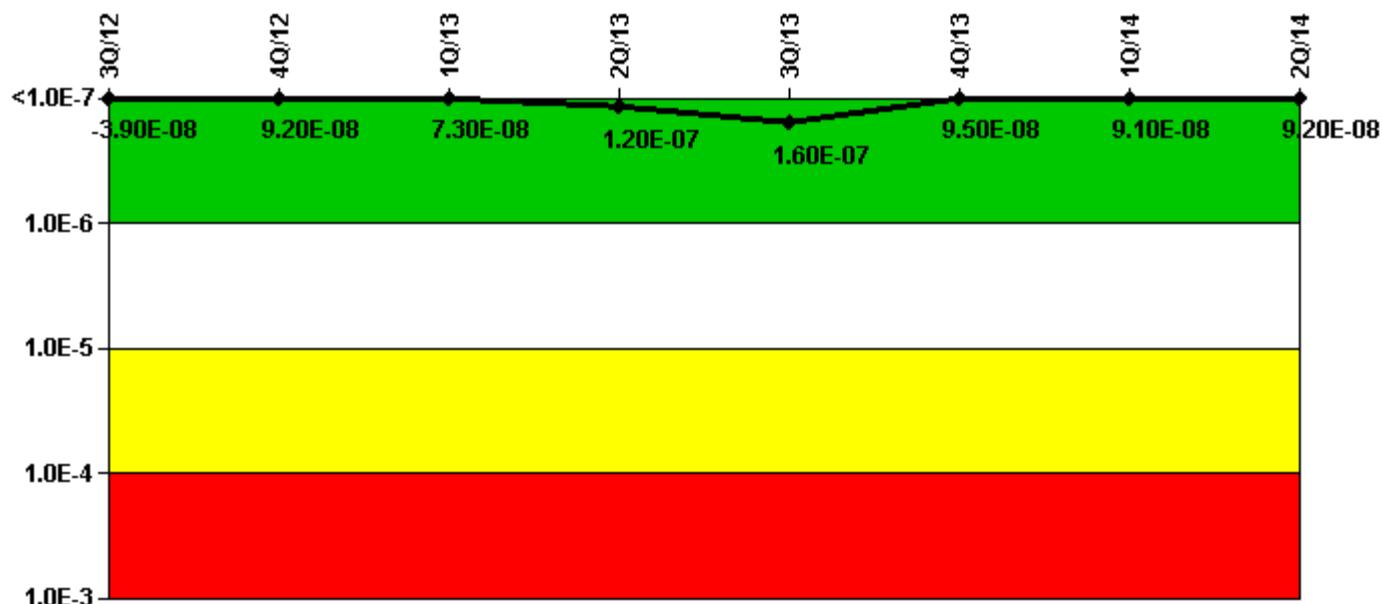
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (Δ CDF)	-8.25E-10	-7.43E-10	-2.88E-09	-2.44E-09	-3.08E-09	-2.04E-09	-2.70E-09	-2.68E-09
URI (Δ CDF)	-1.02E-08	-1.02E-08	-1.06E-08	-1.06E-08	-1.04E-08	-1.08E-08	-1.03E-08	-1.01E-08
PLE	NO							
Indicator value	-1.10E-08	-1.10E-08	-1.40E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



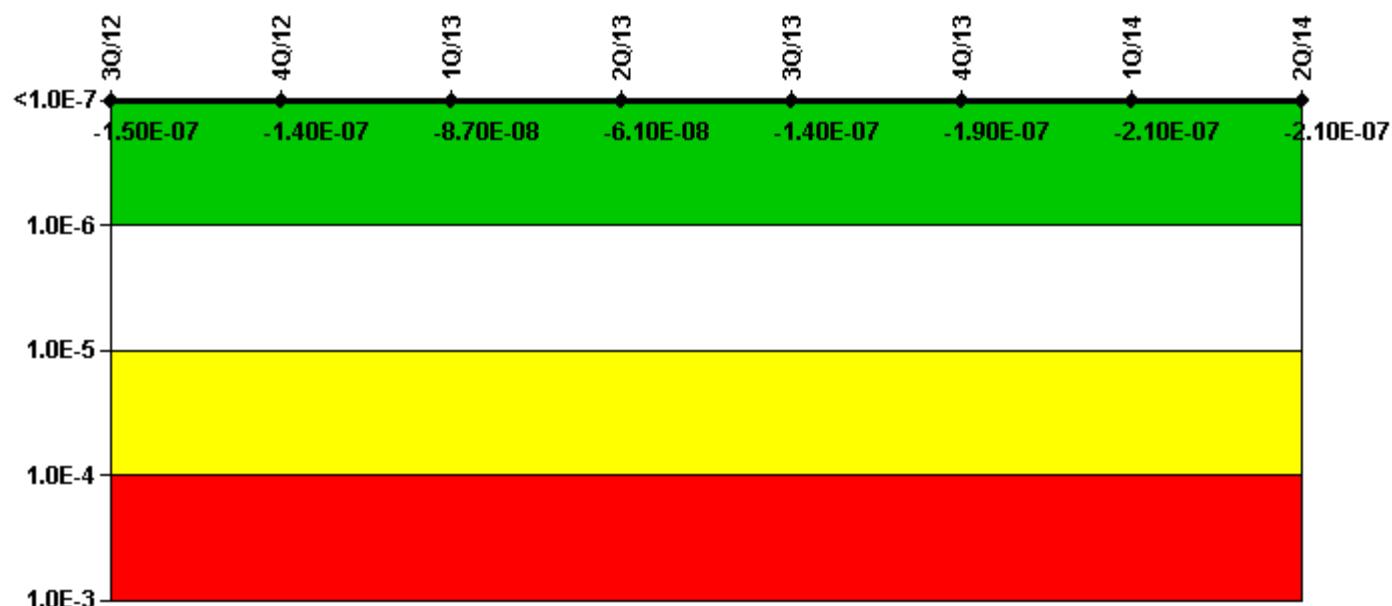
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (Δ CDF)	-3.45E-08	9.07E-08	7.29E-08	1.19E-07	1.58E-07	9.51E-08	8.99E-08	9.11E-08
URI (Δ CDF)	-4.47E-09	1.39E-09	-1.28E-10	-1.54E-10	-3.66E-10	-1.79E-10	9.79E-10	1.10E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.90E-08	9.20E-08	7.30E-08	1.20E-07	1.60E-07	9.50E-08	9.10E-08	9.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



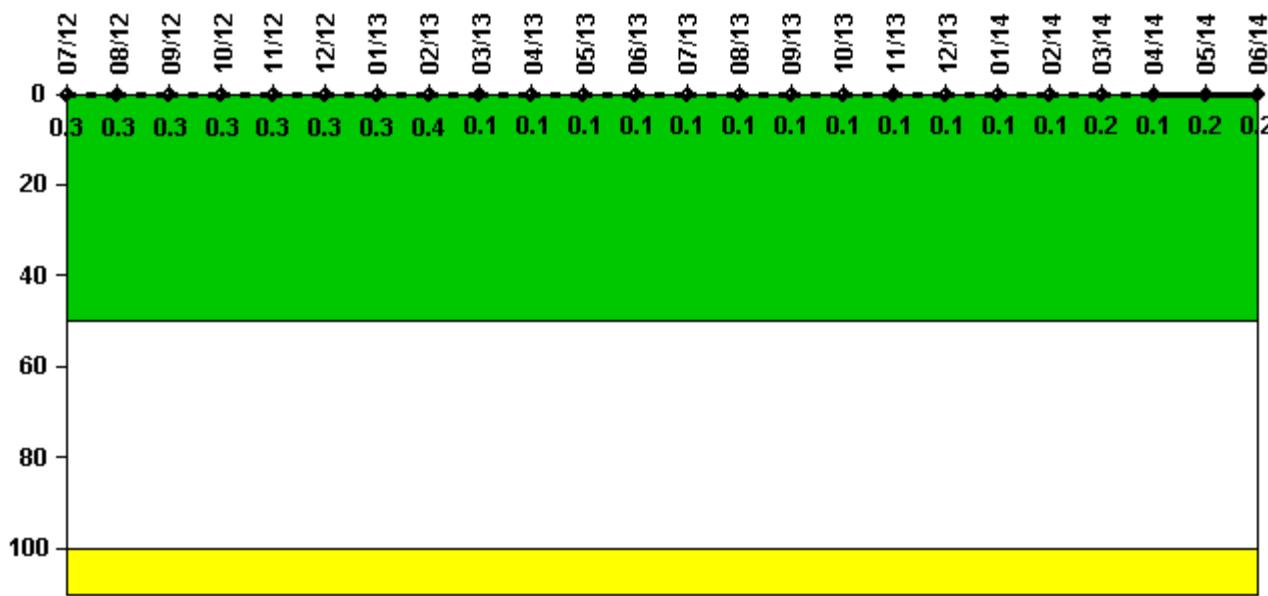
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (Δ CDF)	9.11E-08	9.61E-08	1.51E-07	1.77E-07	9.51E-08	5.06E-08	2.64E-08	2.64E-08
URI (Δ CDF)	-2.38E-07							
PLE	NO							
Indicator value	-1.50E-07	-1.40E-07	-8.70E-08	-6.10E-08	-1.40E-07	-1.90E-07	-2.10E-07	-2.10E-07

Licensee Comments: none

Reactor Coolant System Activity



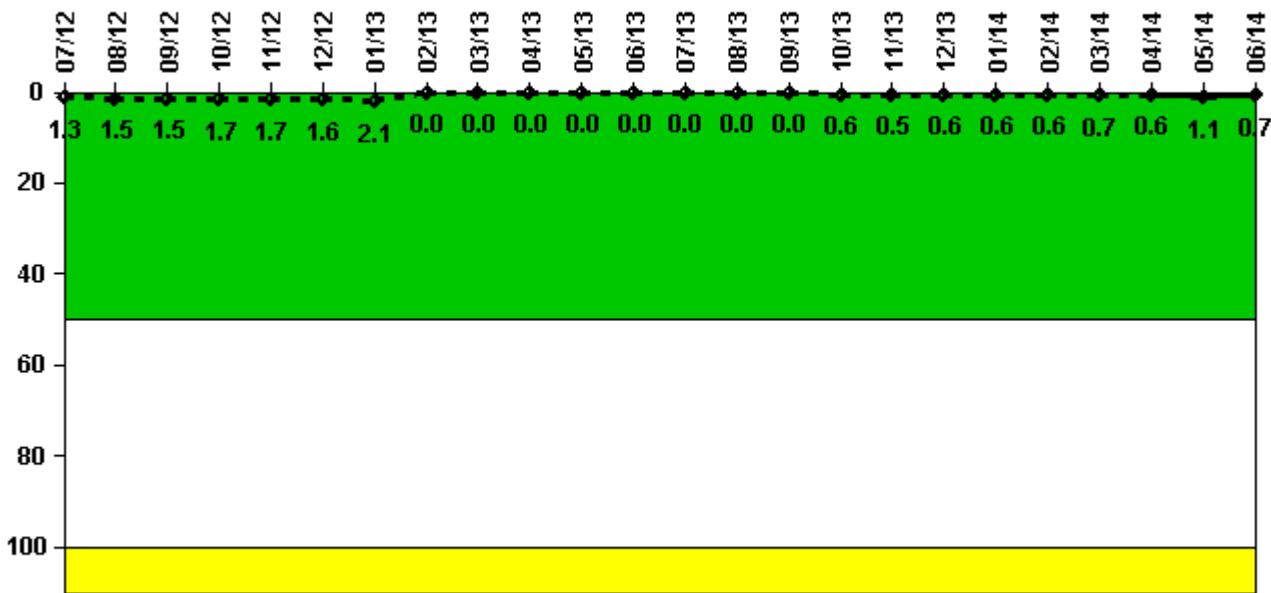
Thresholds: White > 50.0 Yellow > 100.0

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	0.001370	0.001400	0.001460	0.001550	0.001540	0.001590	0.001660	0.001760	0.000316	0.000536	0.000257	0.000617
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.1	0.1	0.1	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	0.000583	0.000645	0.000693	0.000725	0.000610	0.000586	0.000682	0.000681	0.000758	0.000723	0.000765	0.000842
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

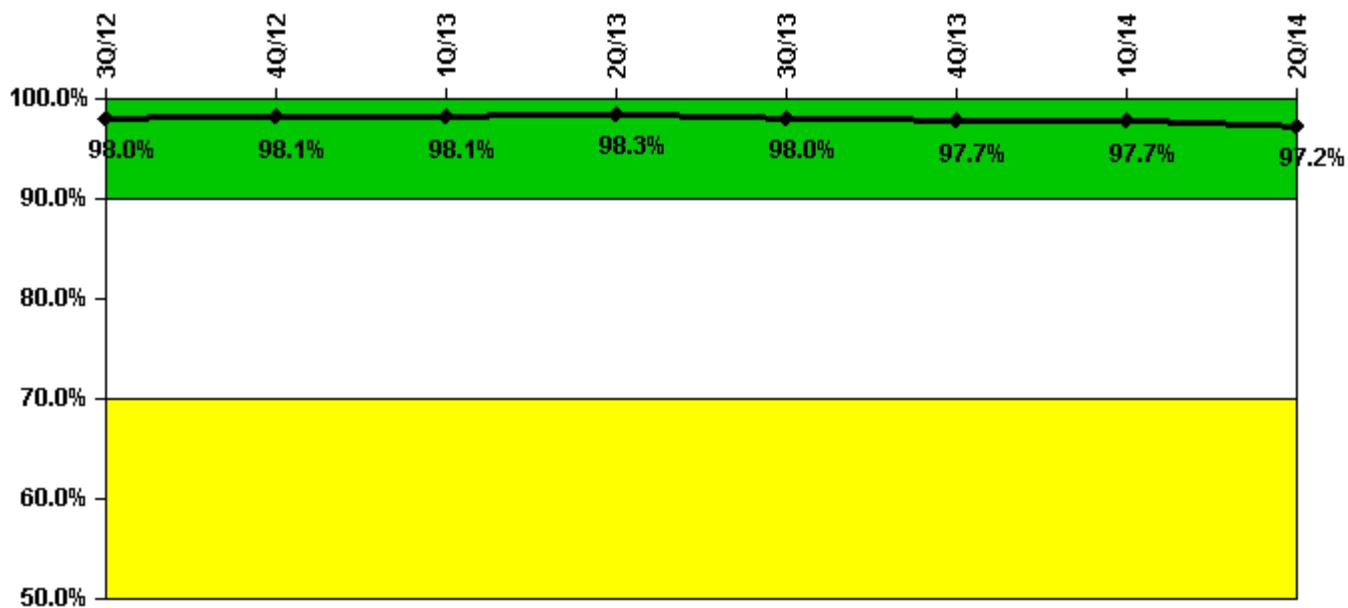
Notes

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	0.130	0.150	0.150	0.170	0.170	0.160	0.210	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	1.3	1.5	1.5	1.7	1.7	1.6	2.1	0	0	0	0	0

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	0	0	0.060	0.050	0.060	0.060	0.060	0.070	0.060	0.110	0.070
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	0	0	0	0.6	0.5	0.6	0.6	0.6	0.7	0.6	1.1	0.7

Licensee Comments: none

Drill/Exercise Performance



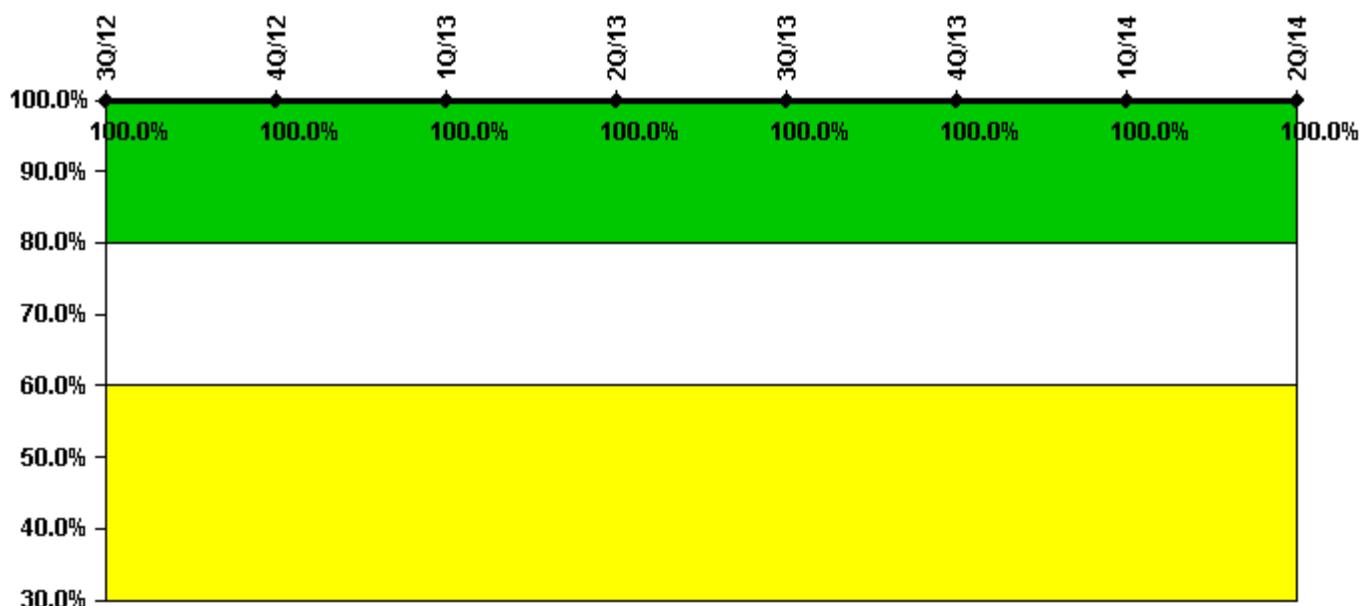
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful opportunities	12.0	67.0	2.0	32.0	53.0	61.0	4.0	48.0
Total opportunities	13.0	68.0	2.0	32.0	54.0	64.0	4.0	50.0
Indicator value	98.0%	98.1%	98.1%	98.3%	98.0%	97.7%	97.7%	97.2%

Licensee Comments: none

ERO Drill Participation



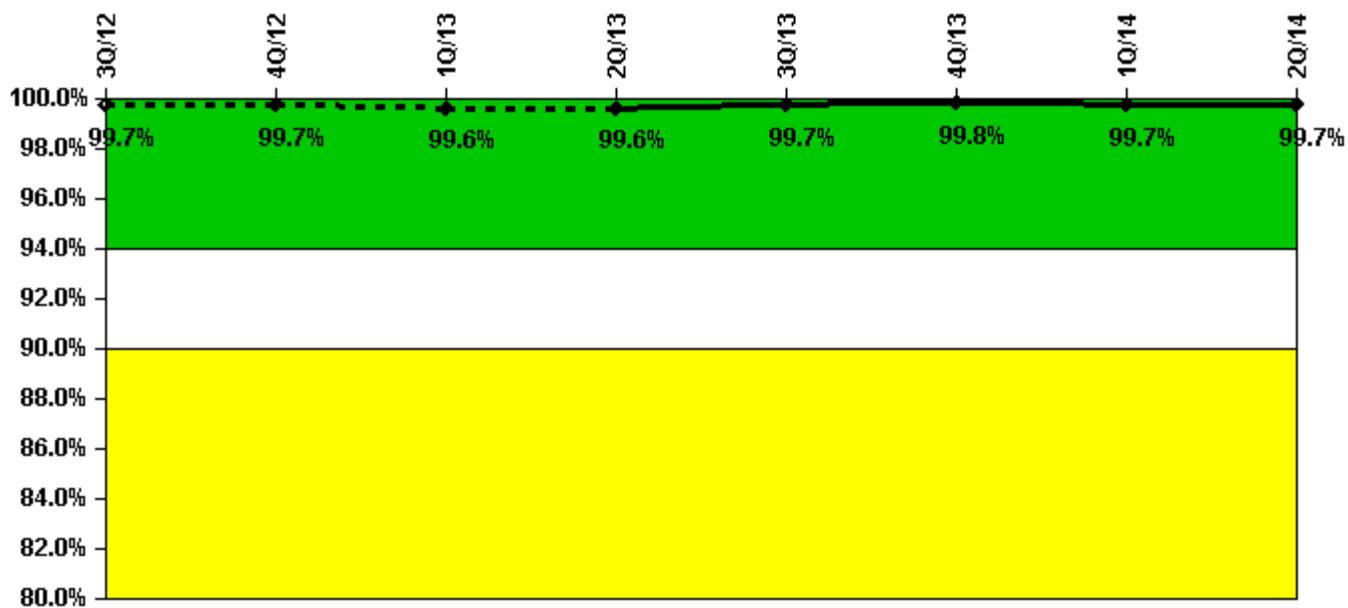
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Participating Key personnel	83.0	84.0	79.0	79.0	80.0	86.0	50.0	49.0
Total Key personnel	83.0	84.0	79.0	79.0	80.0	86.0	50.0	49.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



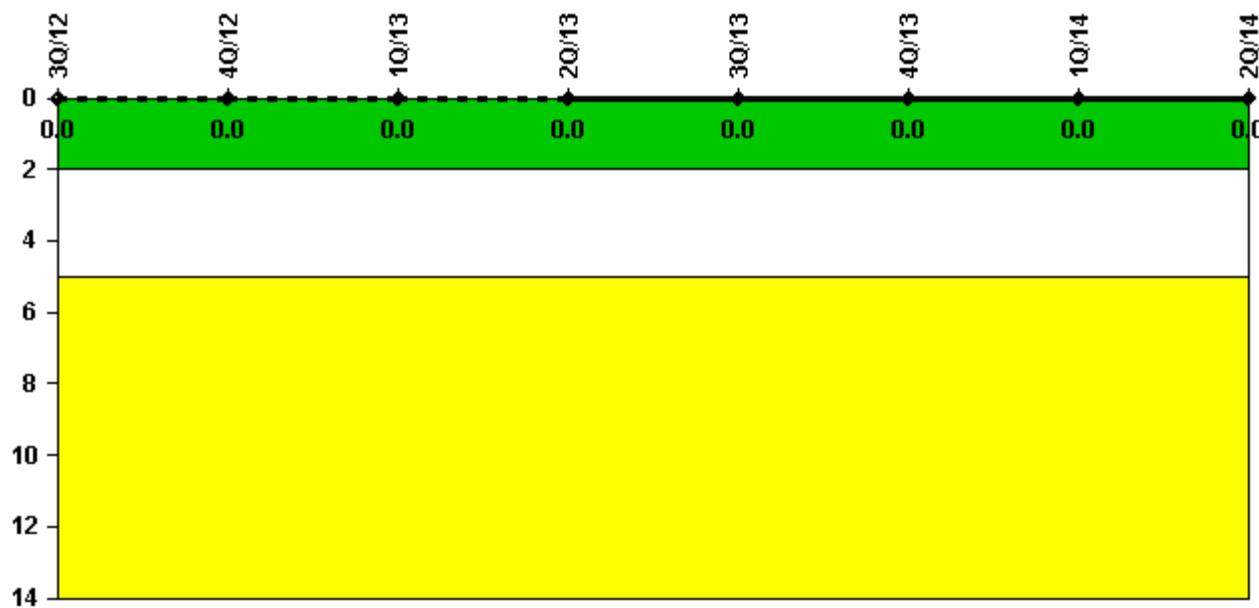
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful siren-tests	945	1016	871	948	971	947	943	946
Total sirens-tests	949	1022	876	949	972	949	949	949
Indicator value	99.7%	99.7%	99.6%	99.6%	99.7%	99.8%	99.7%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



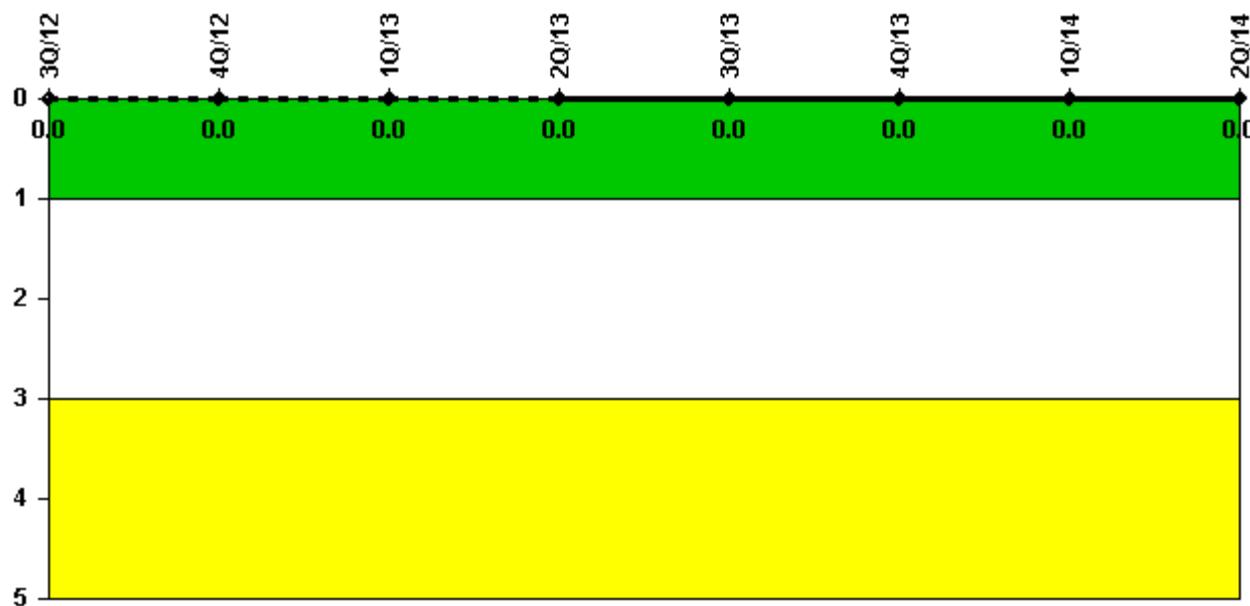
Thresholds: White > 2.0 Yellow > 5.0

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

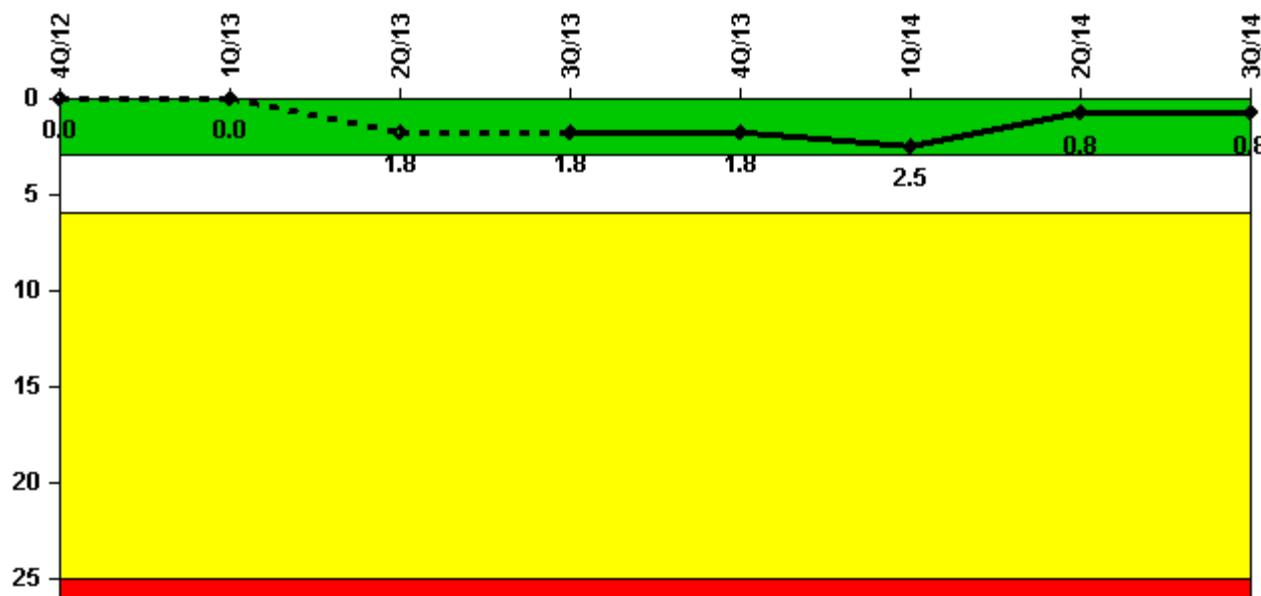
Calvert Cliffs 2

3Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



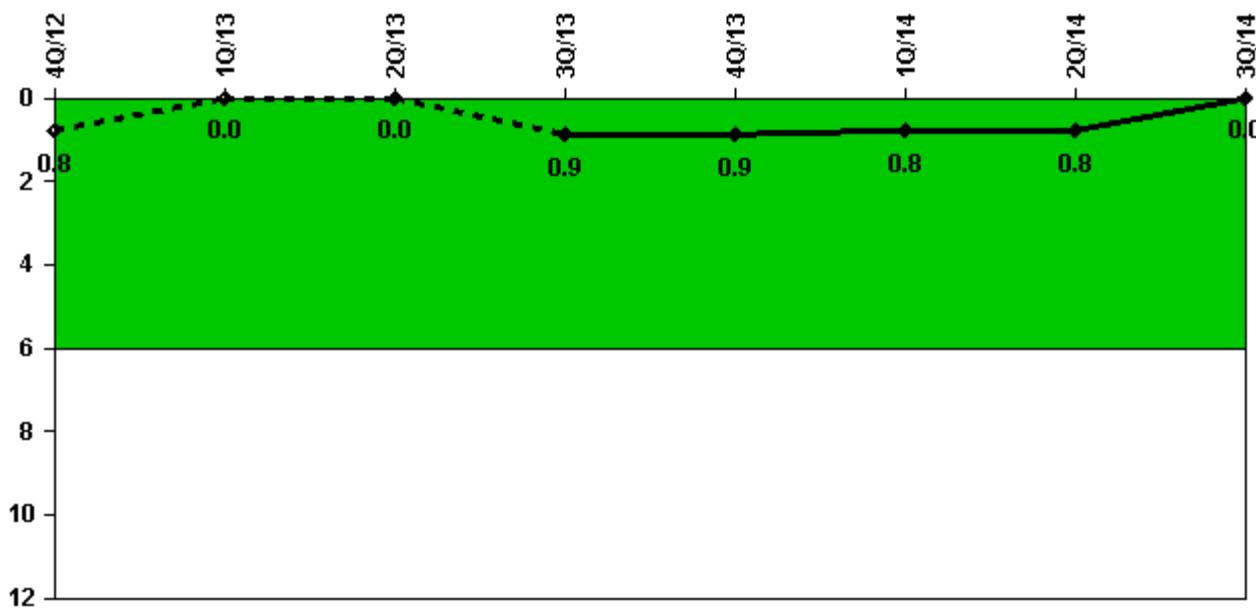
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	2.0	0	0	1.0	0	0
Critical hours	2209.0	1323.2	2076.8	2104.1	2209.0	2079.5	2184.0	2208.0
Indicator value	0	0	1.8	1.8	1.8	2.5	0.8	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



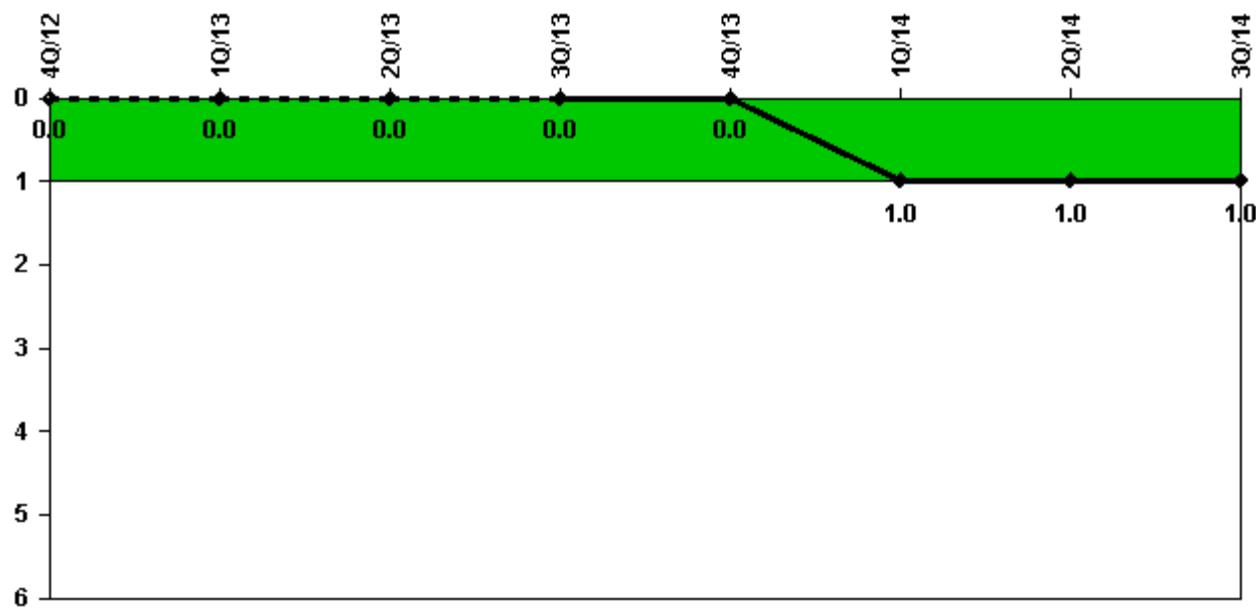
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2209.0	1323.2	2076.8	2104.1	2209.0	2079.5	2184.0	2208.0
Indicator value	0.8	0	0	0.9	0.9	0.8	0.8	0

Licensee Comments: none

Unplanned Scrams with Complications



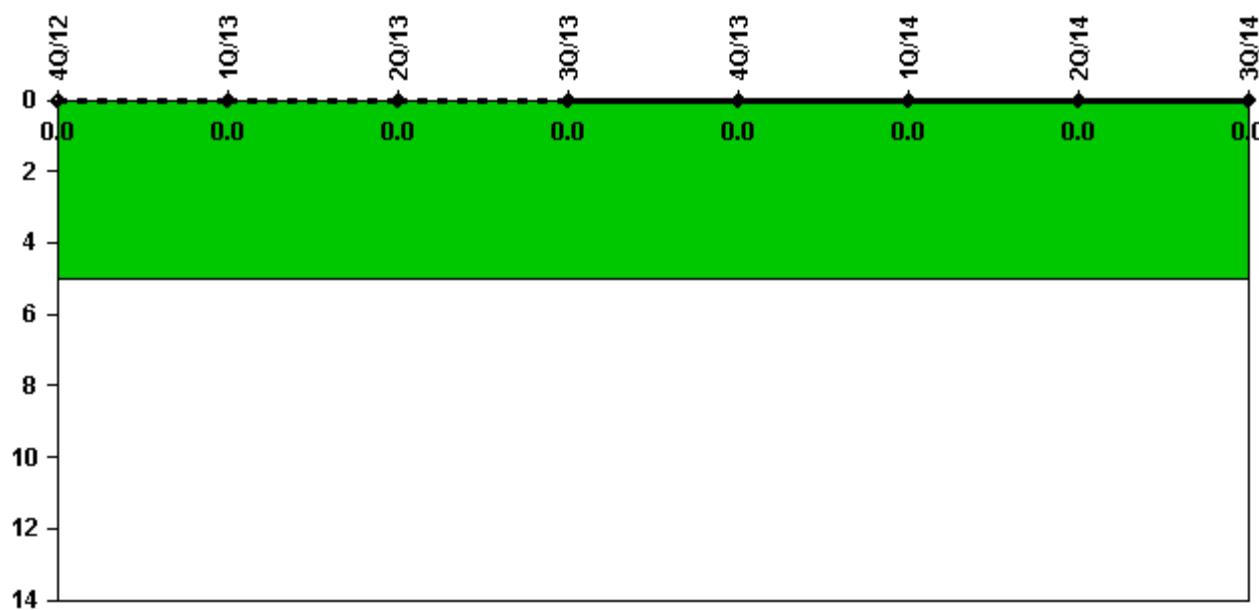
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
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)



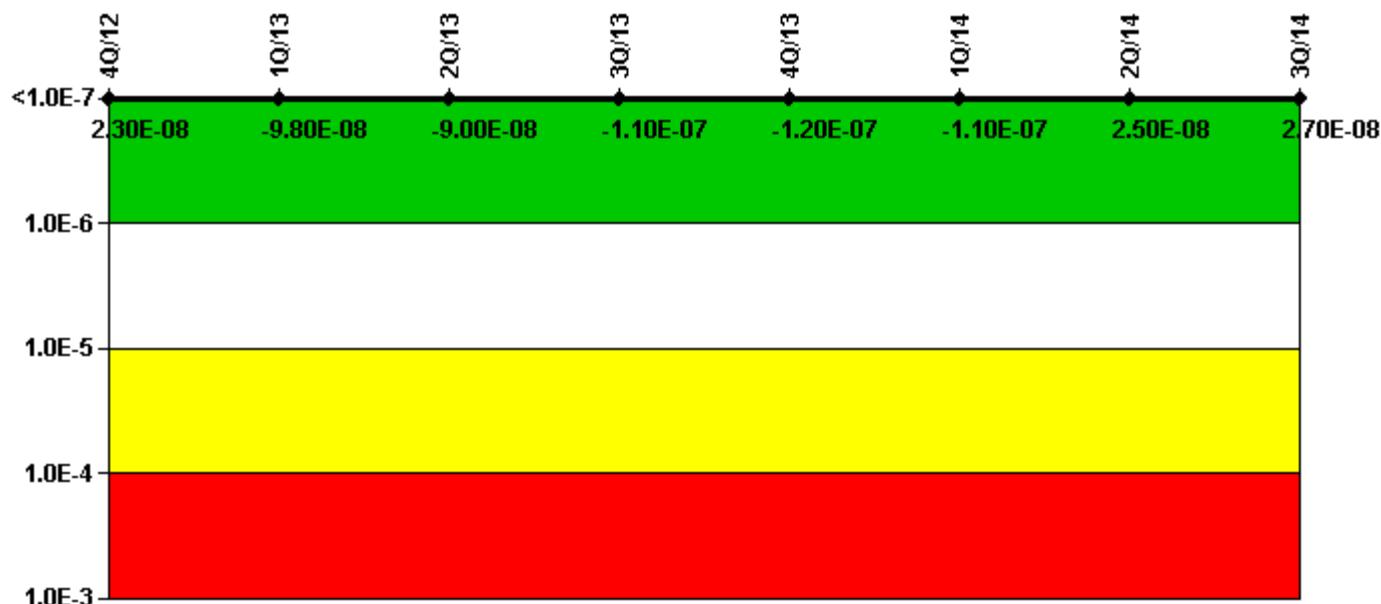
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	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

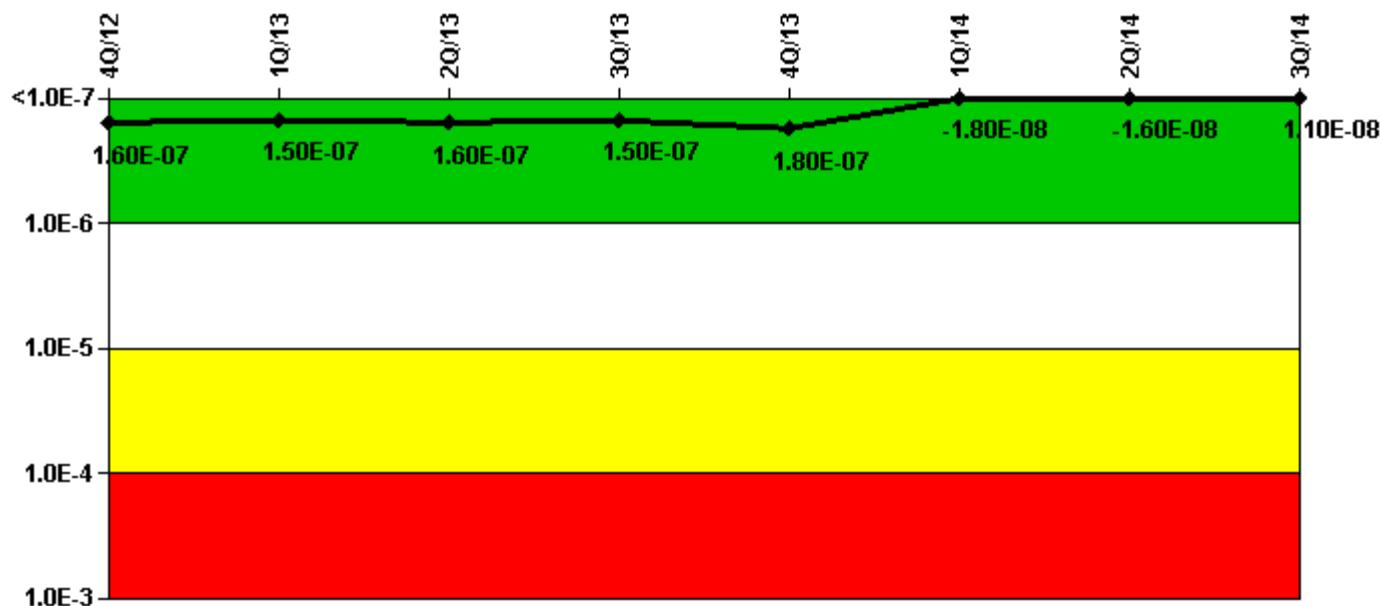
Mitigating Systems Performance Index, Emergency AC Power System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	8.52E-08	3.93E-08	4.49E-08	3.19E-08	1.31E-08	2.19E-08	4.11E-08	4.01E-08
URI (Δ CDF)	-6.22E-08	-1.38E-07	-1.35E-07	-1.39E-07	-1.35E-07	-1.27E-07	-1.62E-08	-1.32E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.30E-08	-9.80E-08	-9.00E-08	-1.10E-07	-1.20E-07	-1.10E-07	2.50E-08	2.70E-08

Licensee Comments:

3Q/14: 2A DG failure on 6/9/14 was determined to be an MSPI failure per AR 02384639.

2Q/14: 2A DG failure on 6/9/14 was determined to be an MSPI failure per AR 02384639.

Mitigating Systems Performance Index, High Pressure Injection System



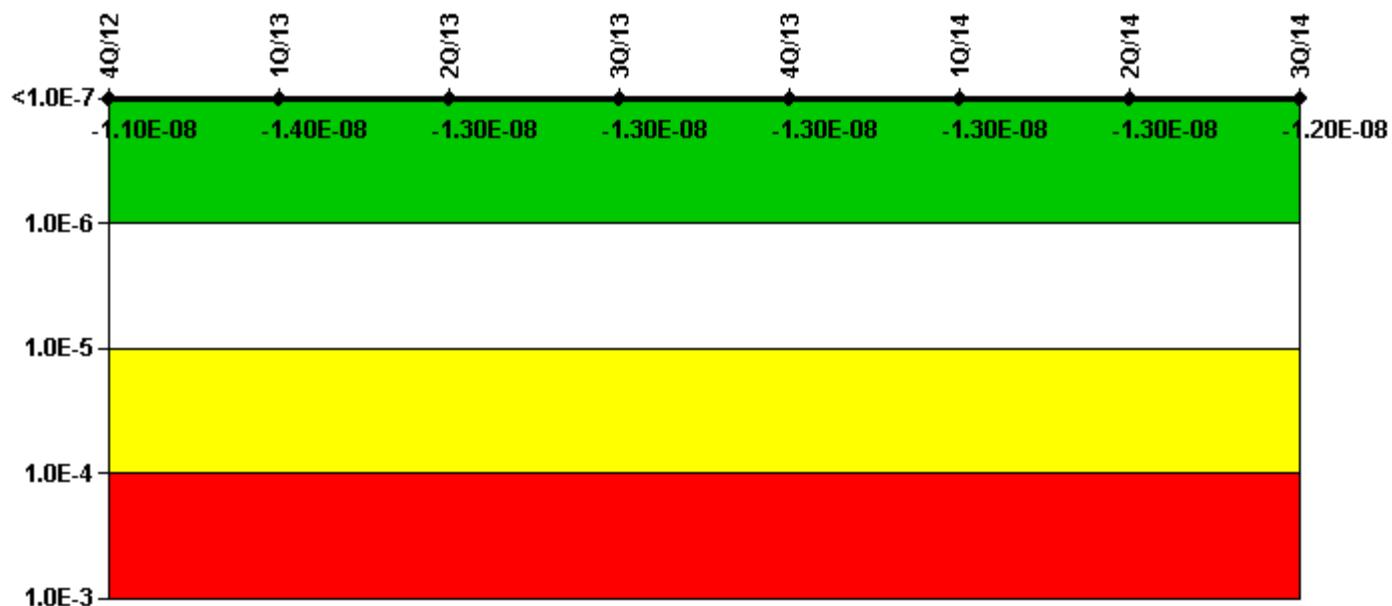
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	4.62E-08	5.50E-08	6.62E-08	6.30E-08	9.11E-08	2.81E-08	3.06E-08	5.49E-08
URI (Δ CDF)	1.09E-07	9.58E-08	9.47E-08	9.20E-08	8.87E-08	-4.60E-08	-4.68E-08	-4.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.60E-07	1.50E-07	1.60E-07	1.50E-07	1.80E-07	-1.80E-08	-1.60E-08	1.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



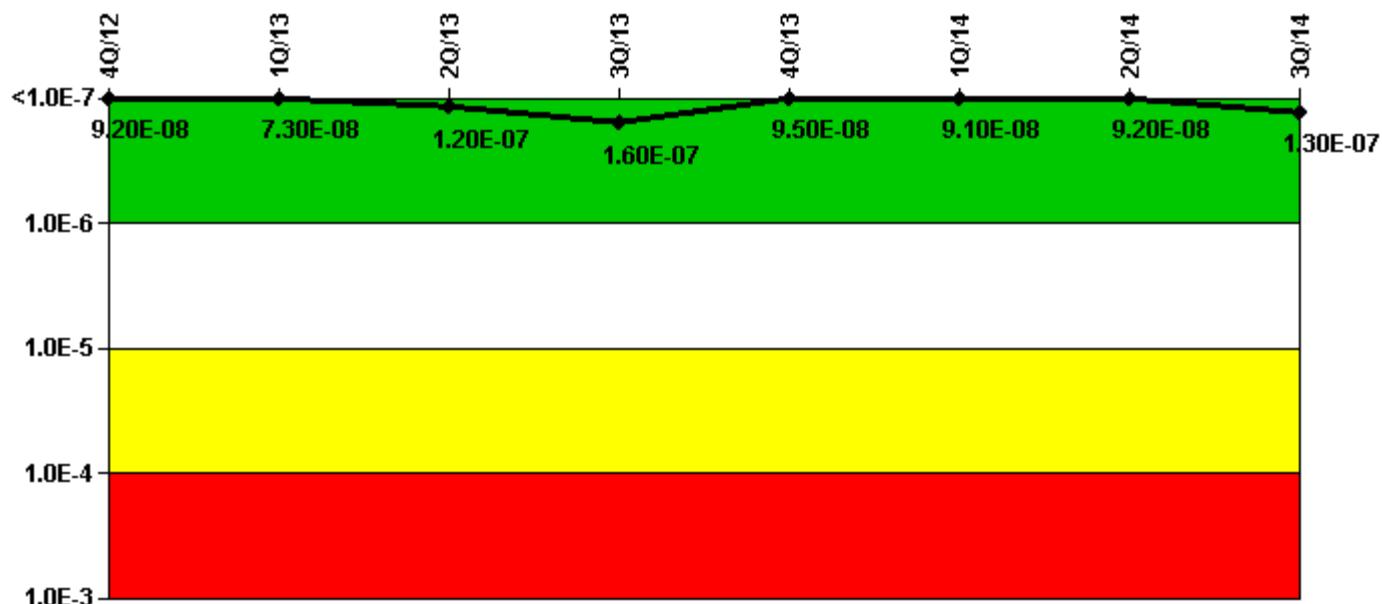
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	-7.43E-10	-2.88E-09	-2.44E-09	-3.08E-09	-2.04E-09	-2.70E-09	-2.68E-09	-2.73E-09
URI (Δ CDF)	-1.02E-08	-1.06E-08	-1.06E-08	-1.04E-08	-1.08E-08	-1.03E-08	-1.01E-08	-9.54E-09
PLE	NO							
Indicator value	-1.10E-08	-1.40E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



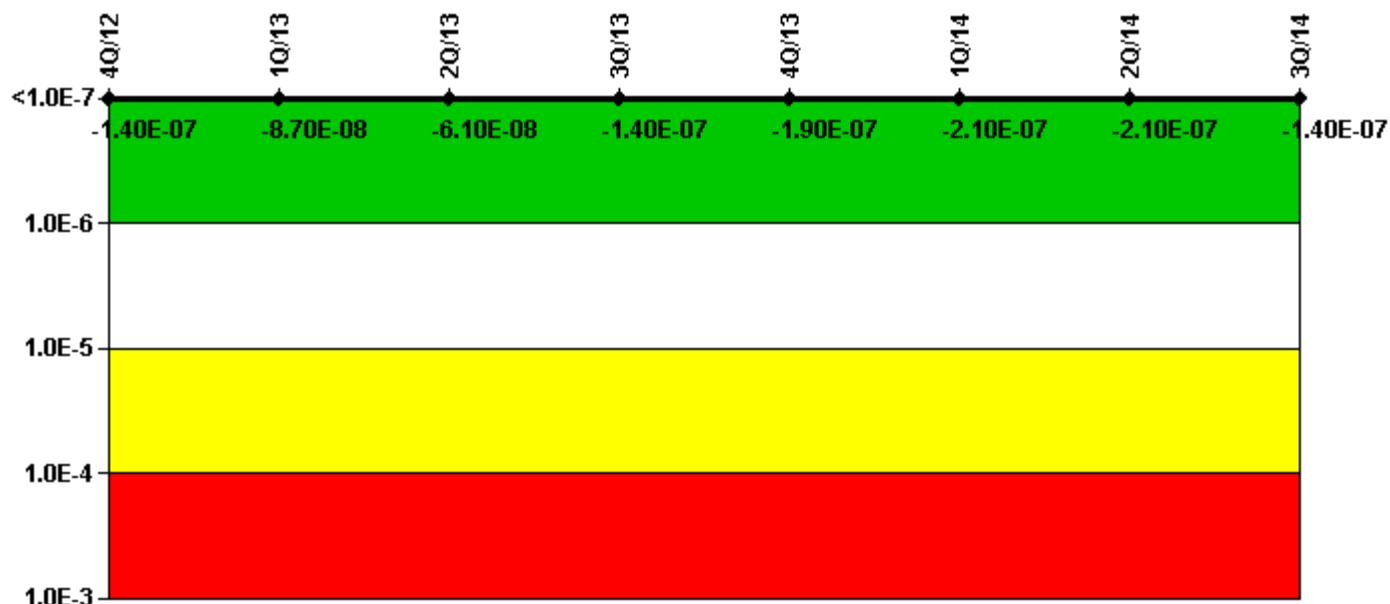
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	9.07E-08	7.29E-08	1.19E-07	1.58E-07	9.51E-08	8.99E-08	9.11E-08	1.32E-07
URI (Δ CDF)		1.39E-09	-1.28E-10	-1.54E-10	-3.66E-10	-1.79E-10		
PLE		NO						
Indicator value	9.20E-08	7.30E-08	1.20E-07	1.60E-07	9.50E-08	9.10E-08	9.20E-08	1.30E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



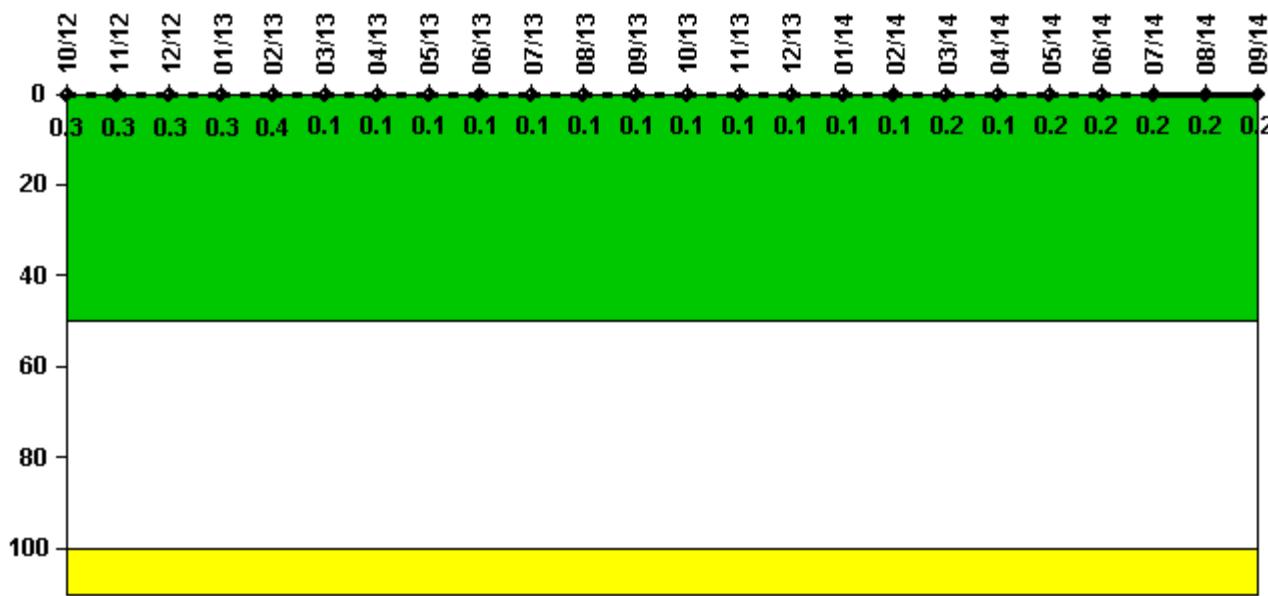
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	9.61E-08	1.51E-07	1.77E-07	9.51E-08	5.06E-08	2.64E-08	2.64E-08	9.70E-08
URI (Δ CDF)	-2.38E-07	-2.37E-07						
PLE	NO							
Indicator value	-1.40E-07	-8.70E-08	-6.10E-08	-1.40E-07	-1.90E-07	-2.10E-07	-2.10E-07	-1.40E-07

Licensee Comments: none

Reactor Coolant System Activity



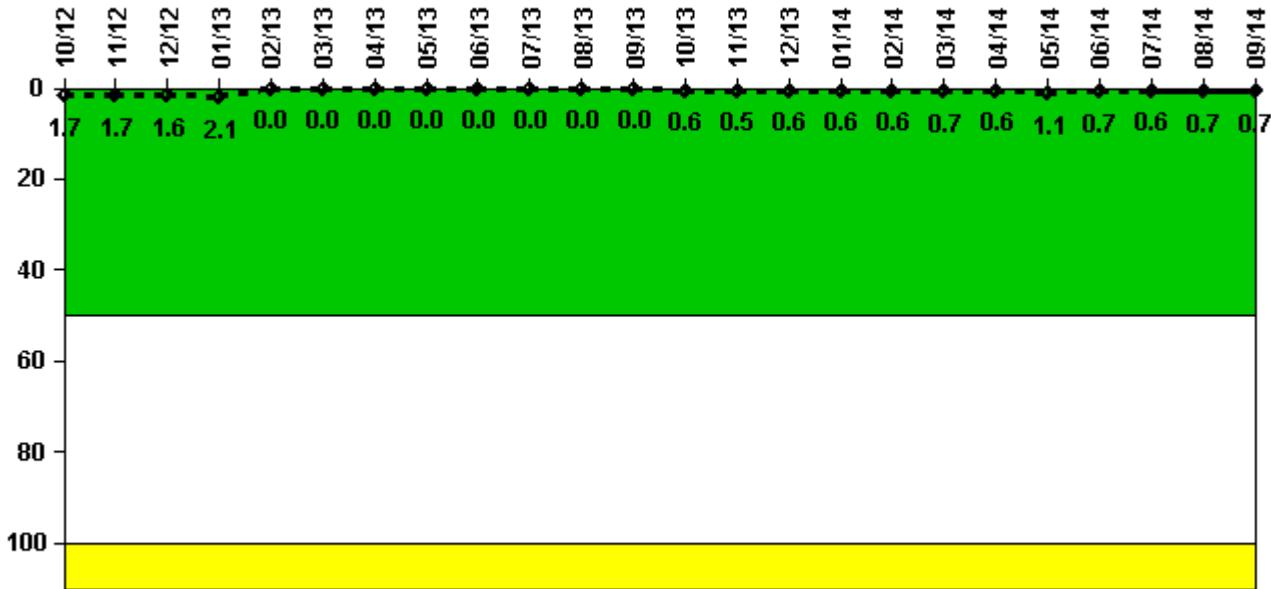
Thresholds: White > 50.0 Yellow > 100.0

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	0.001550	0.001540	0.001590	0.001660	0.001760	0.000316	0.000536	0.000257	0.000617	0.000583	0.000645	0.000693
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.3	0.3	0.3	0.3	0.4	0.1	0.1	0.1	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	0.000725	0.000610	0.000586	0.000682	0.000681	0.000758	0.000723	0.000765	0.000842	0.000863	0.001000	0.001200
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

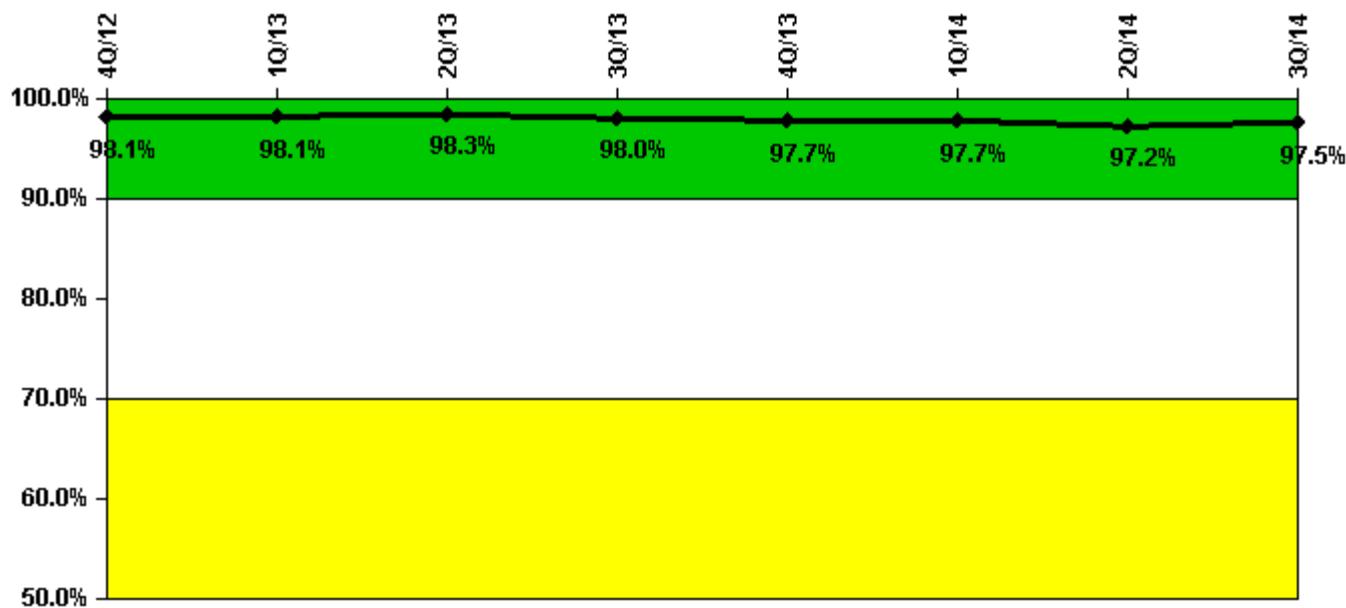
Notes

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	0.170	0.170	0.160	0.210	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	1.7	1.7	1.6	2.1	0							

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	0.060	0.050	0.060	0.060	0.060	0.070	0.060	0.110	0.070	0.060	0.070	0.070
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	0.6	0.5	0.6	0.6	0.6	0.7	0.6	1.1	0.7	0.6	0.7	0.7

Licensee Comments: none

Drill/Exercise Performance



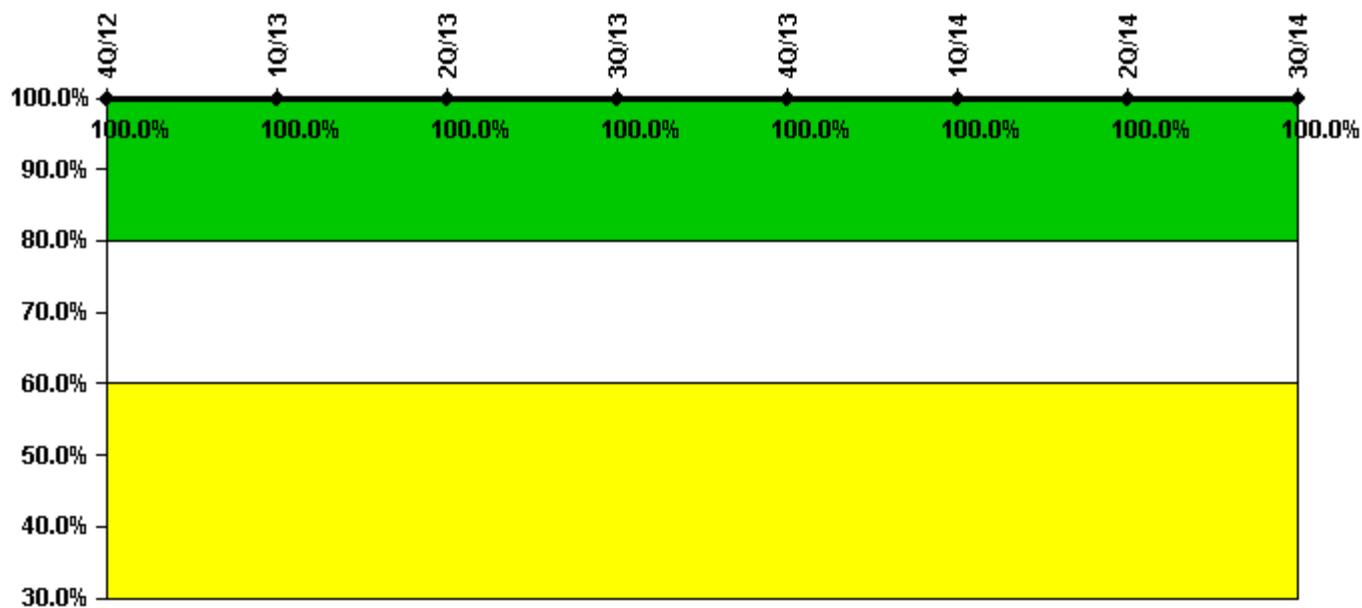
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful opportunities	67.0	2.0	32.0	53.0	61.0	4.0	48.0	51.0
Total opportunities	68.0	2.0	32.0	54.0	64.0	4.0	50.0	52.0
Indicator value	98.1%	98.1%	98.3%	98.0%	97.7%	97.7%	97.2%	97.5%

Licensee Comments: none

ERO Drill Participation



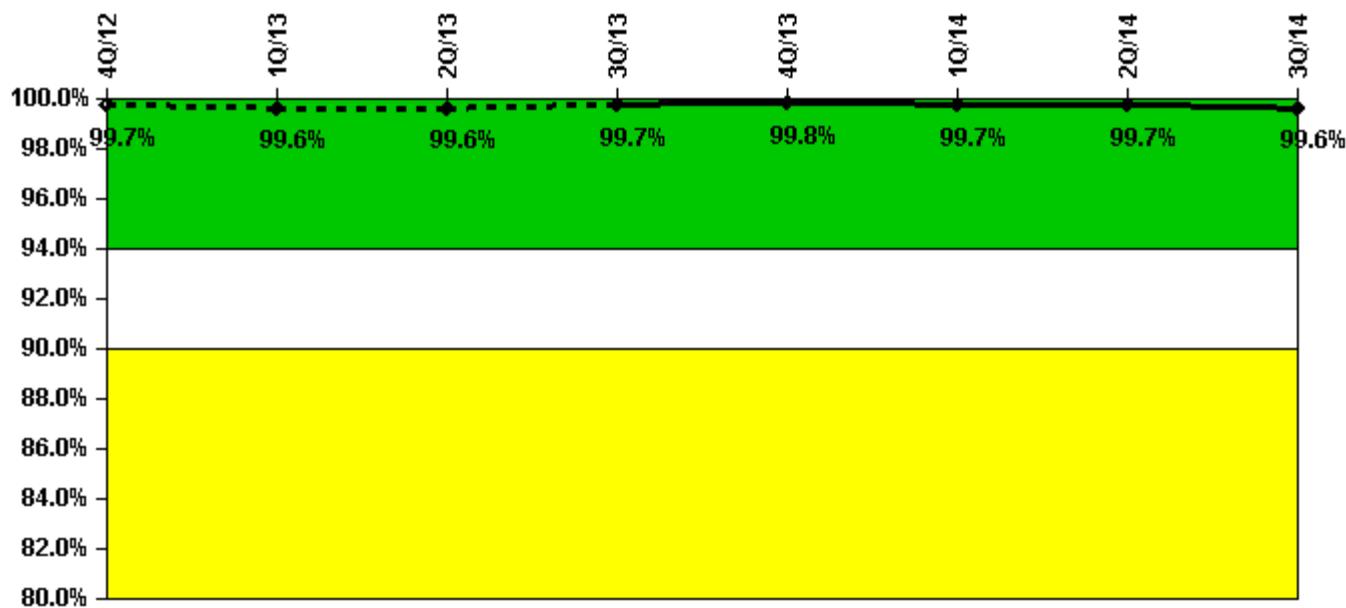
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Participating Key personnel	84.0	79.0	79.0	80.0	86.0	50.0	49.0	53.0
Total Key personnel	84.0	79.0	79.0	80.0	86.0	50.0	49.0	53.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



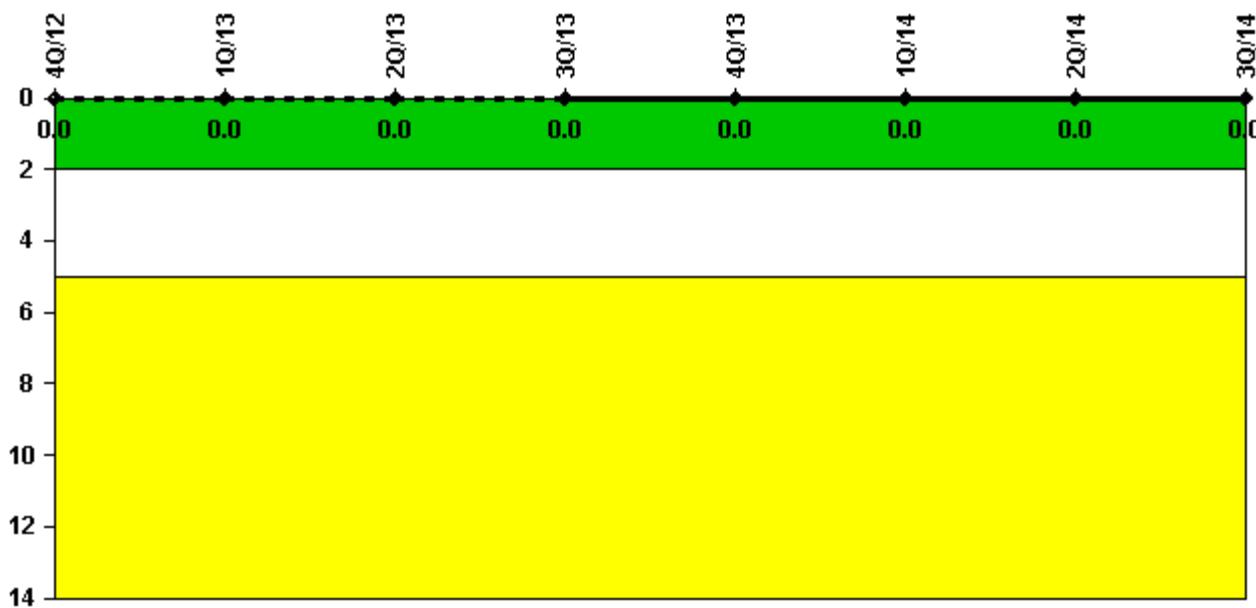
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful siren-tests	1016	871	948	971	947	943	946	945
Total sirens-tests	1022	876	949	972	949	949	949	949
Indicator value	99.7%	99.6%	99.6%	99.7%	99.8%	99.7%	99.7%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



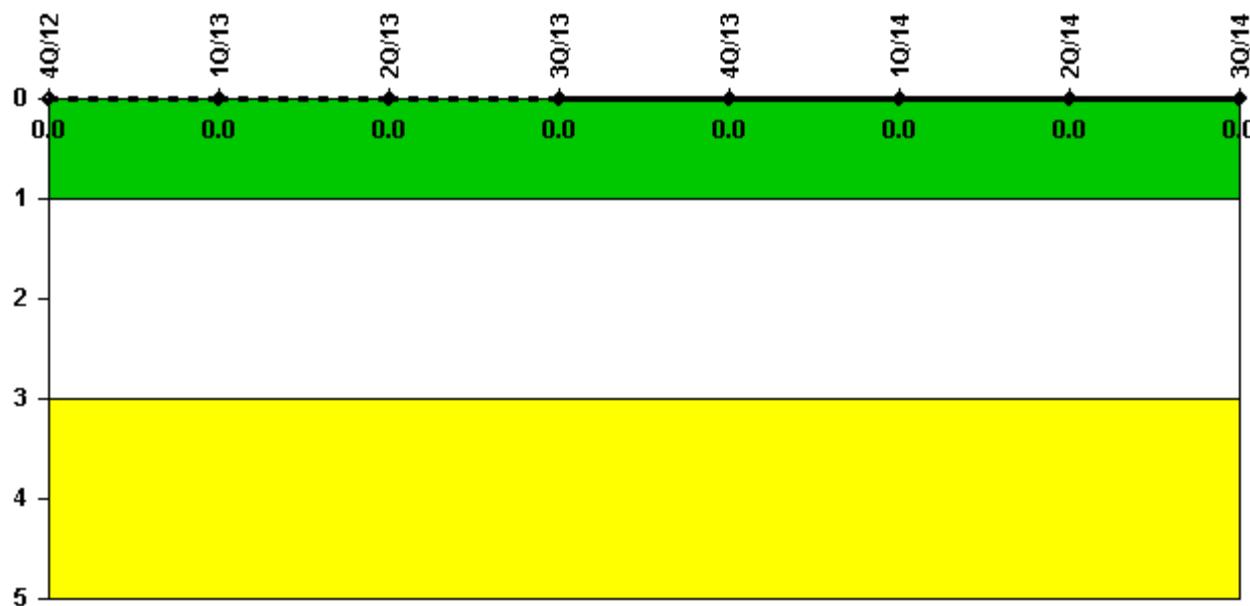
Thresholds: White > 2.0 Yellow > 5.0

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

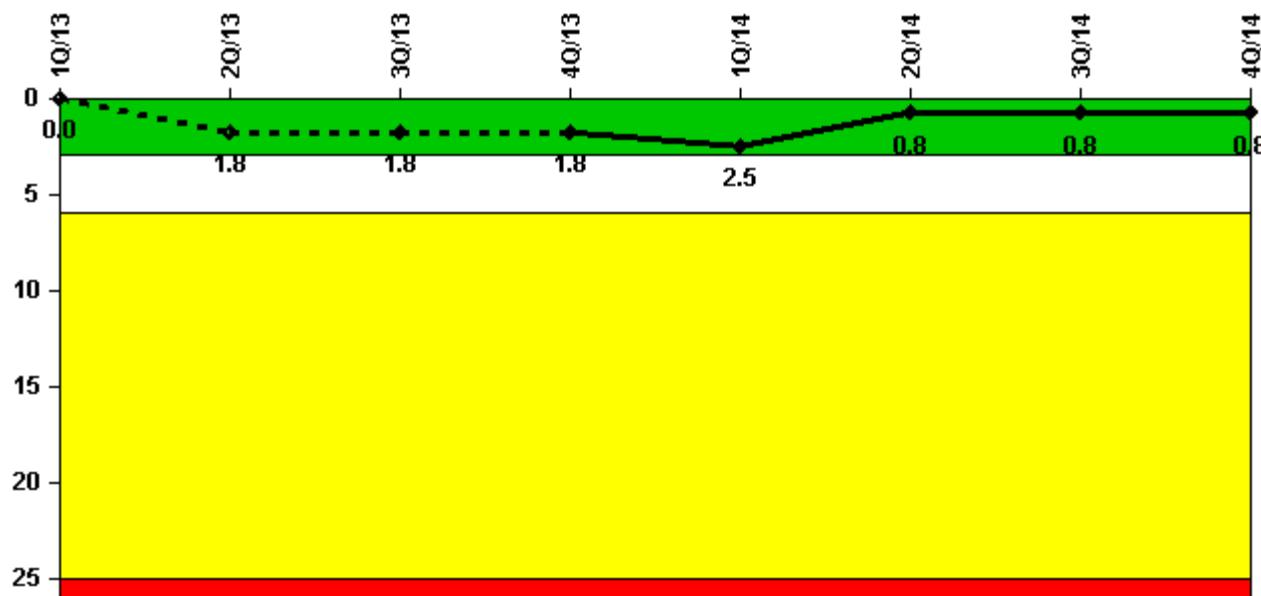
Calvert Cliffs 2

4Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



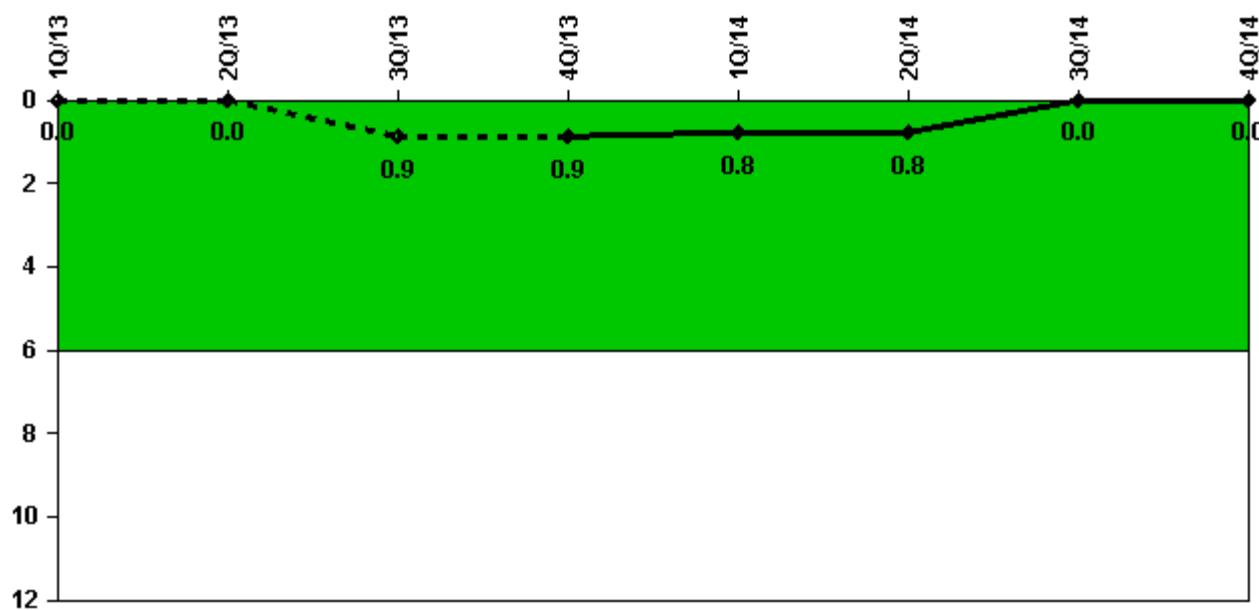
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	2.0	0	0	1.0	0	0	0
Critical hours	1323.2	2076.8	2104.1	2209.0	2079.5	2184.0	2208.0	2209.0
Indicator value	0	1.8	1.8	1.8	2.5	0.8	0.8	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



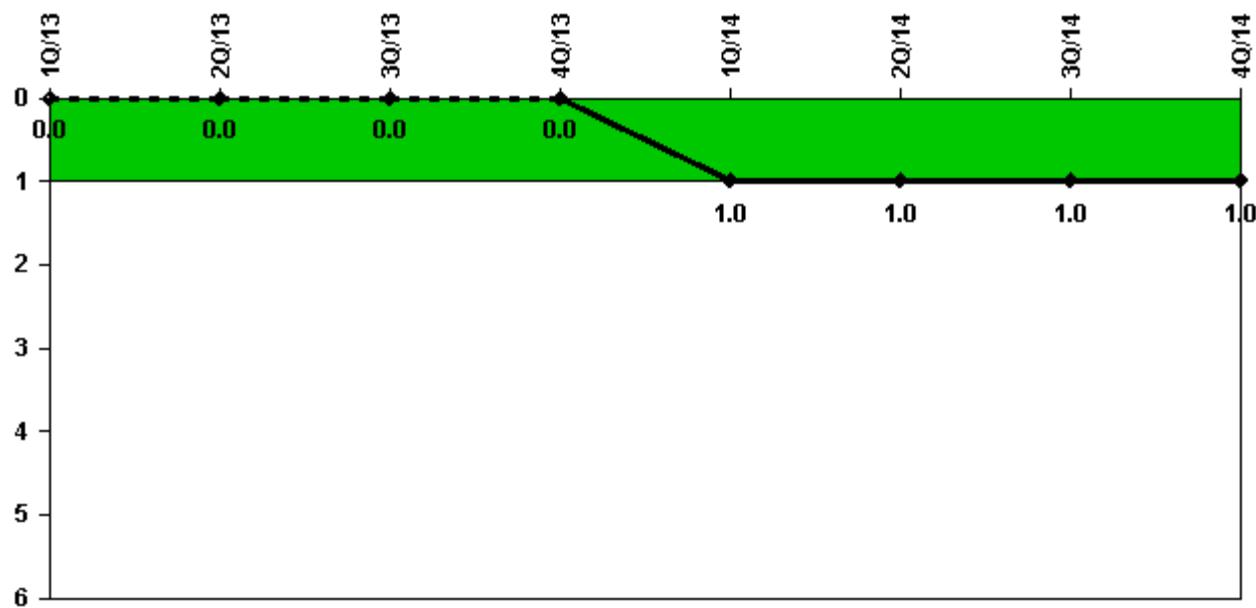
Thresholds: White > 6.0

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	1.0	0	0	0	0	0
Critical hours	1323.2	2076.8	2104.1	2209.0	2079.5	2184.0	2208.0	2209.0
Indicator value	0	0	0.9	0.9	0.8	0.8	0	0

Licensee Comments: none

Unplanned Scrams with Complications



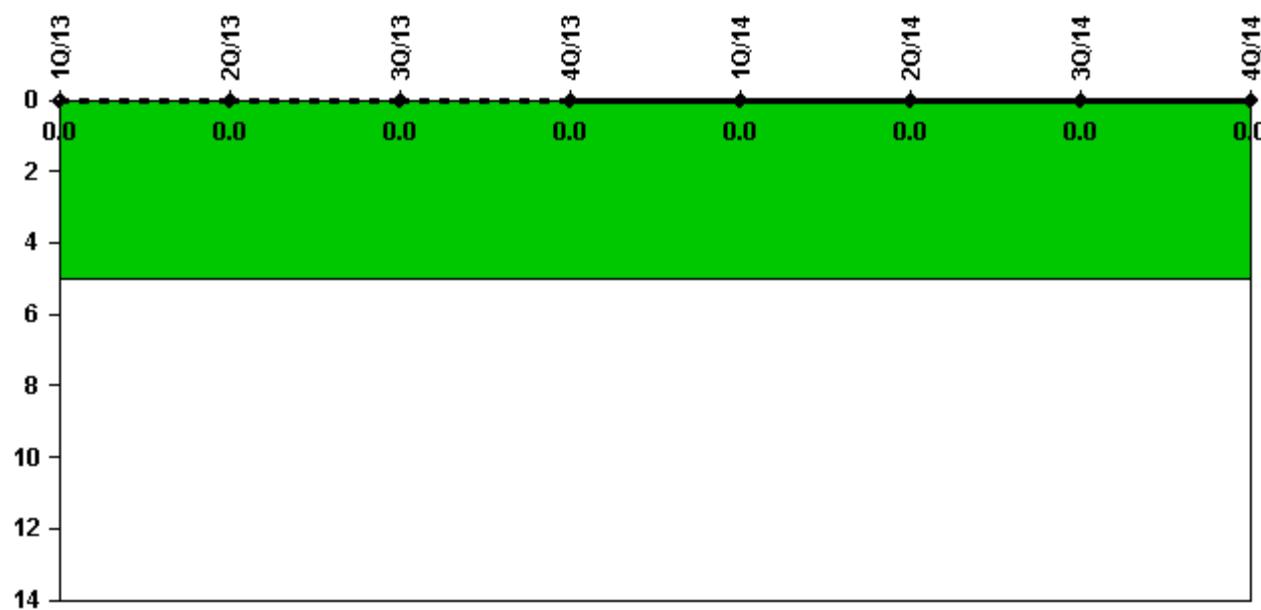
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
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)



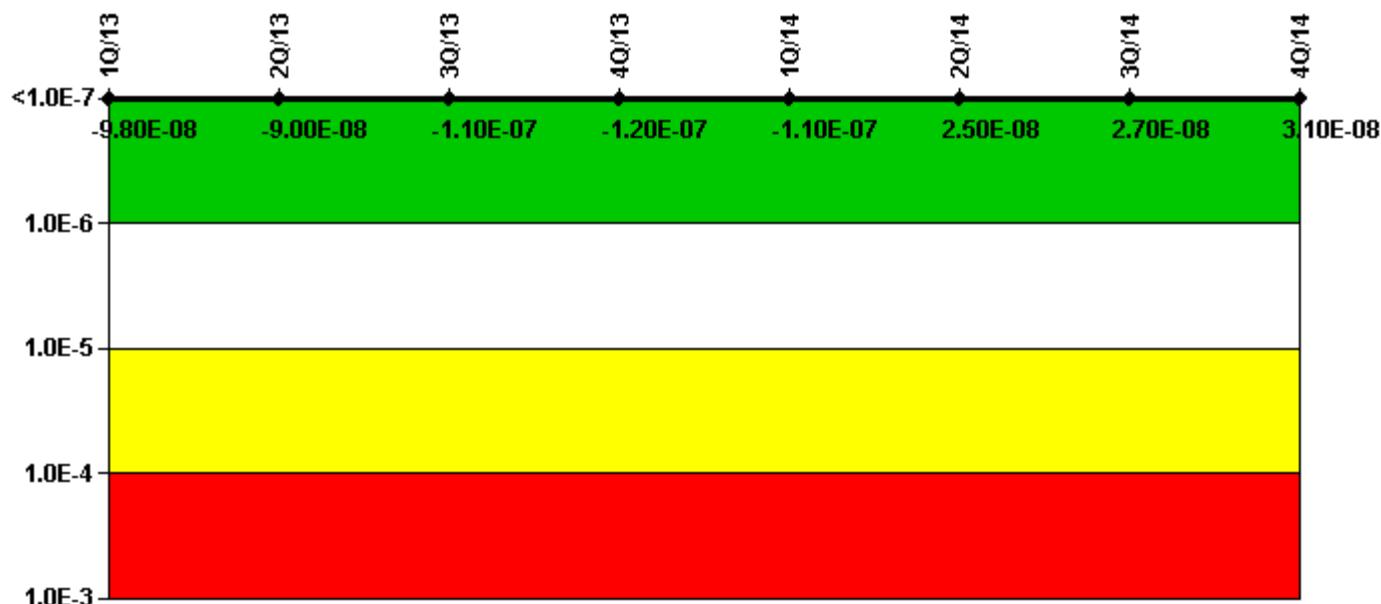
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	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

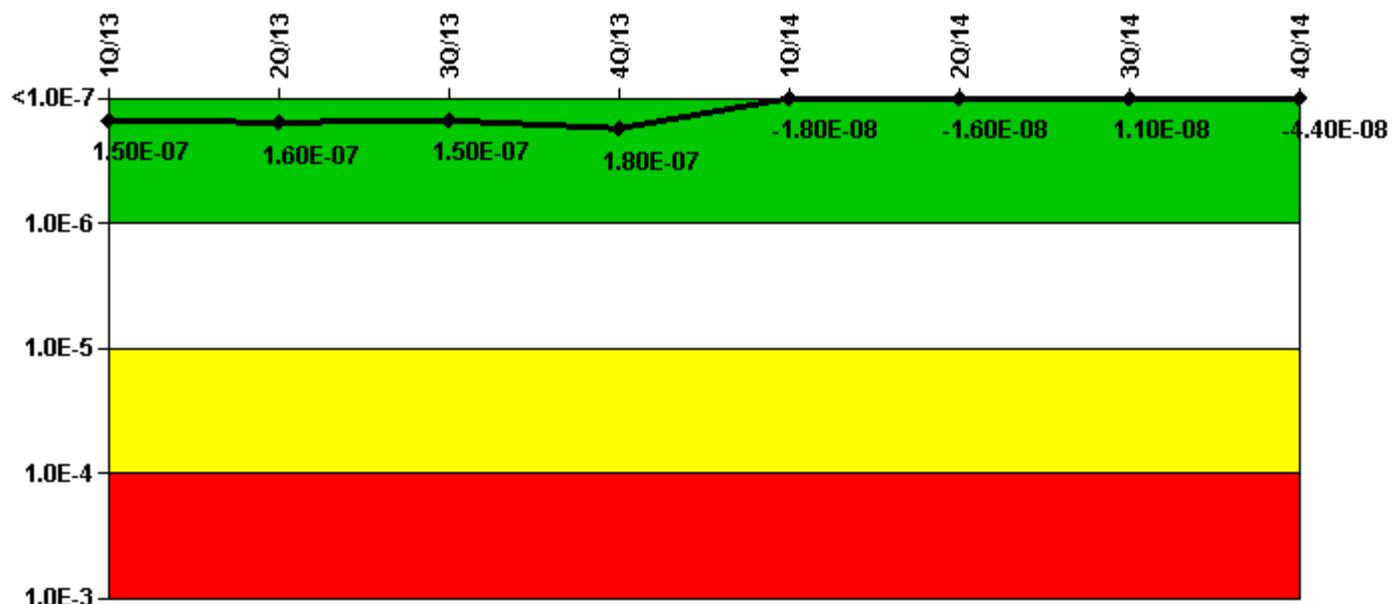
Mitigating Systems Performance Index, Emergency AC Power System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	3.93E-08	4.49E-08	3.19E-08	1.31E-08	2.19E-08	4.11E-08	4.01E-08	-5.25E-08
URI (Δ CDF)	-1.38E-07	-1.35E-07	-1.39E-07	-1.35E-07	-1.27E-07	-1.62E-08	-1.32E-08	8.35E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.80E-08	-9.00E-08	-1.10E-07	-1.20E-07	-1.10E-07	2.50E-08	2.70E-08	3.10E-08

Licensee Comments:

3Q/14: 2A DG failure on 6/9/14 was determined to be an MSPI failure per AR 02384639.

2Q/14: 2A DG failure on 6/9/14 was determined to be an MSPI failure per AR 02384639.

Mitigating Systems Performance Index, High Pressure Injection System



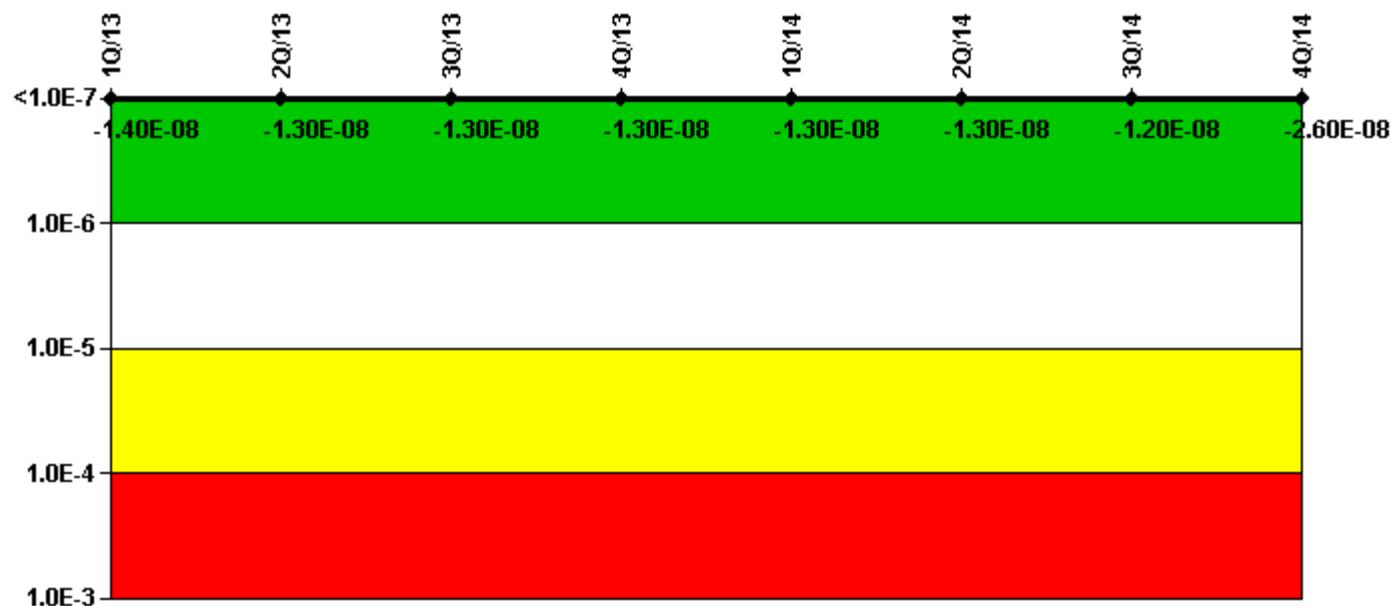
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	5.50E-08	6.62E-08	6.30E-08	9.11E-08	2.81E-08	3.06E-08	5.49E-08	-1.74E-09
URI (Δ CDF)	9.58E-08	9.47E-08	9.20E-08	8.87E-08	-4.60E-08	-4.68E-08	-4.40E-08	-4.22E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.50E-07	1.60E-07	1.50E-07	1.80E-07	-1.80E-08	-1.60E-08	1.10E-08	-4.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



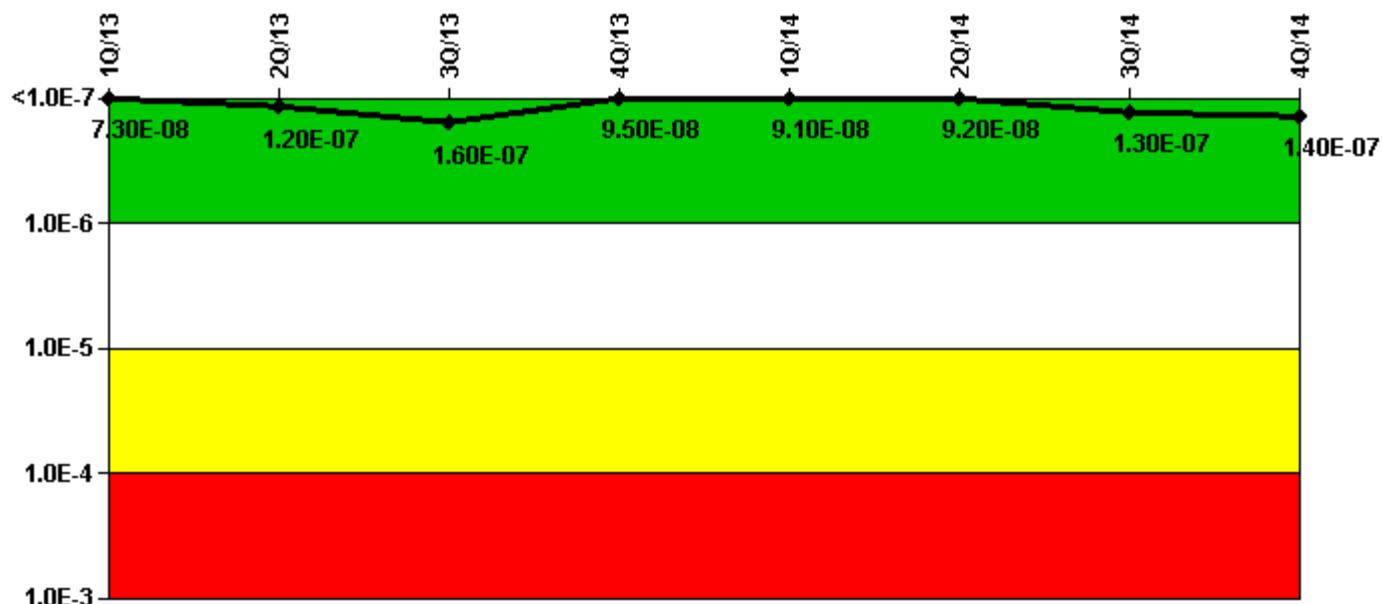
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	-2.88E-09	-2.44E-09	-3.08E-09	-2.04E-09	-2.70E-09	-2.68E-09	-2.73E-09	-6.30E-09
URI (Δ CDF)	-1.06E-08	-1.06E-08	-1.04E-08	-1.08E-08	-1.03E-08	-1.01E-08	-9.54E-09	-1.93E-08
PLE	NO							
Indicator value	-1.40E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.20E-08	-2.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



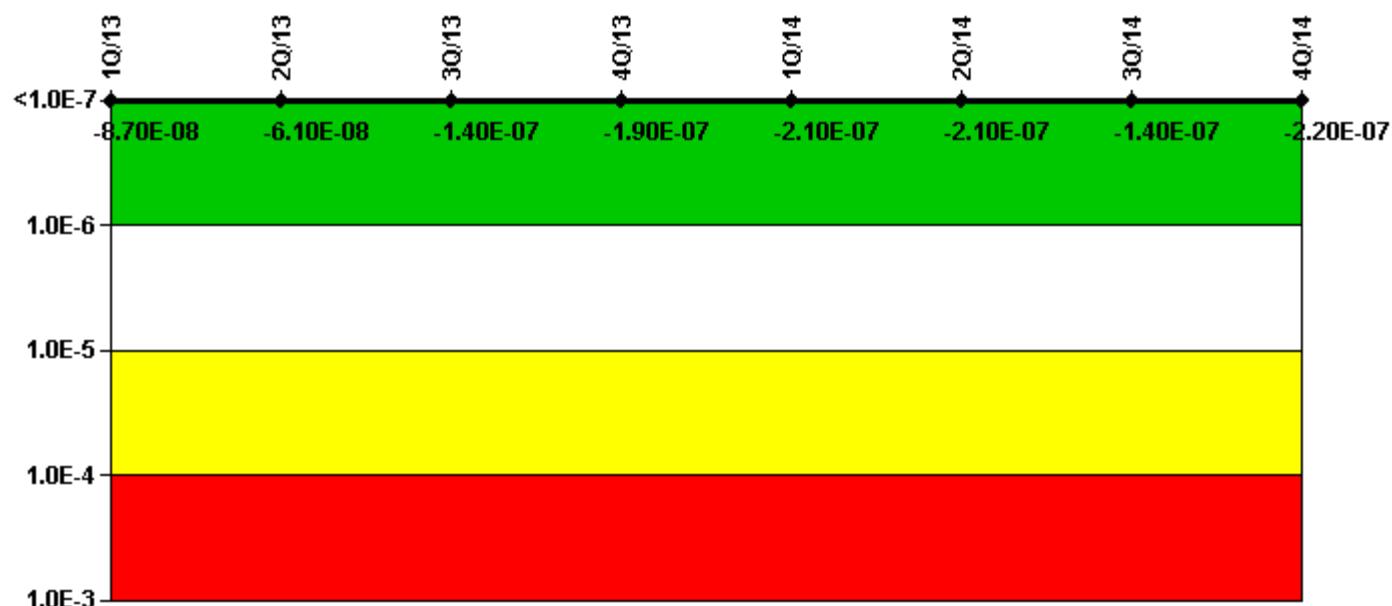
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	7.29E-08	1.19E-07	1.58E-07	9.51E-08	8.99E-08	9.11E-08	1.32E-07	1.37E-07
URI (Δ CDF)	-1.28E-10	-1.54E-10	-3.66E-10	-1.79E-10	9.79E-10	1.10E-09	1.46E-09	1.20E-10
PLE	NO							
Indicator value	7.30E-08	1.20E-07	1.60E-07	9.50E-08	9.10E-08	9.20E-08	1.30E-07	1.40E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



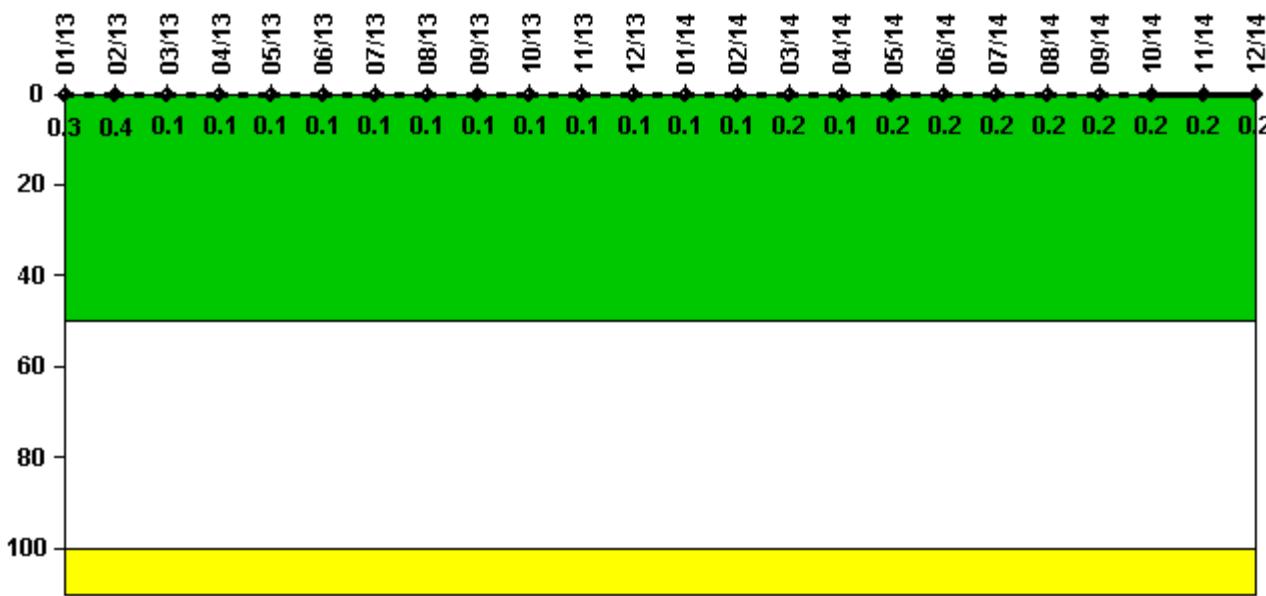
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	1.51E-07	1.77E-07	9.51E-08	5.06E-08	2.64E-08	2.64E-08	9.70E-08	3.18E-09
URI (Δ CDF)	-2.38E-07	-2.38E-07	-2.38E-07	-2.38E-07	-2.38E-07	-2.38E-07	-2.37E-07	-2.24E-07
PLE	NO							
Indicator value	-8.70E-08	-6.10E-08	-1.40E-07	-1.90E-07	-2.10E-07	-2.10E-07	-1.40E-07	-2.20E-07

Licensee Comments: none

Reactor Coolant System Activity



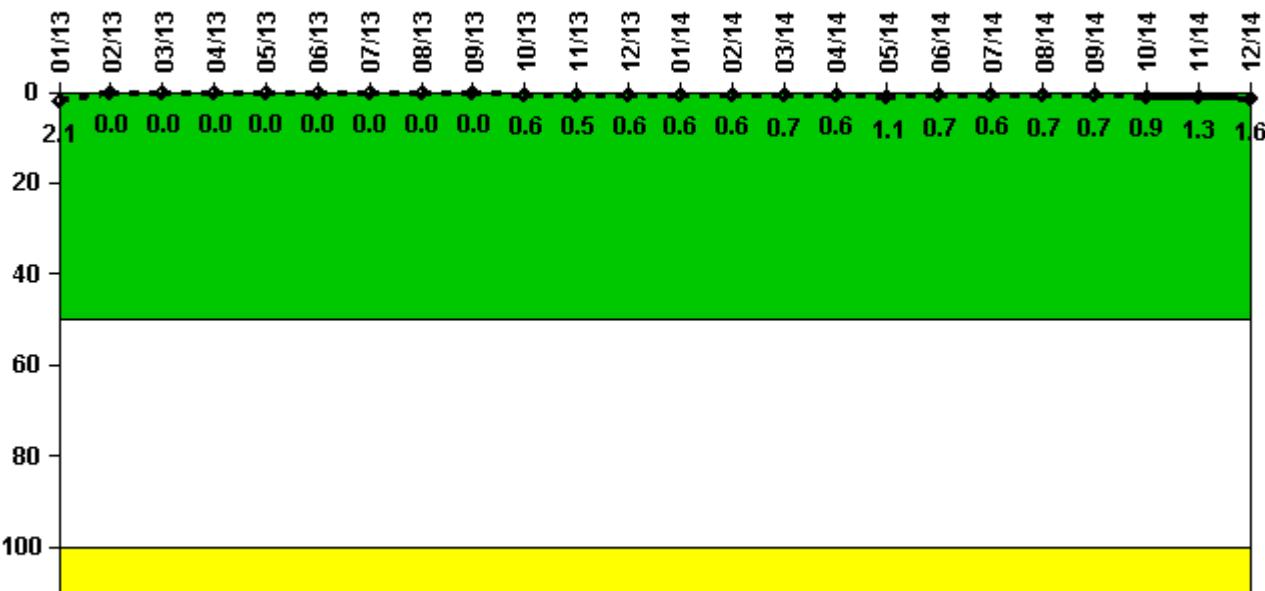
Thresholds: White > 50.0 Yellow > 100.0

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	0.001660	0.001760	0.000316	0.000536	0.000257	0.000617	0.000583	0.000645	0.000693	0.000725	0.000610	0.000586
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.3	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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	0.000682	0.000681	0.000758	0.000723	0.000765	0.000842	0.000863	0.001000	0.001200	0.001120	0.000807	0.000806
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

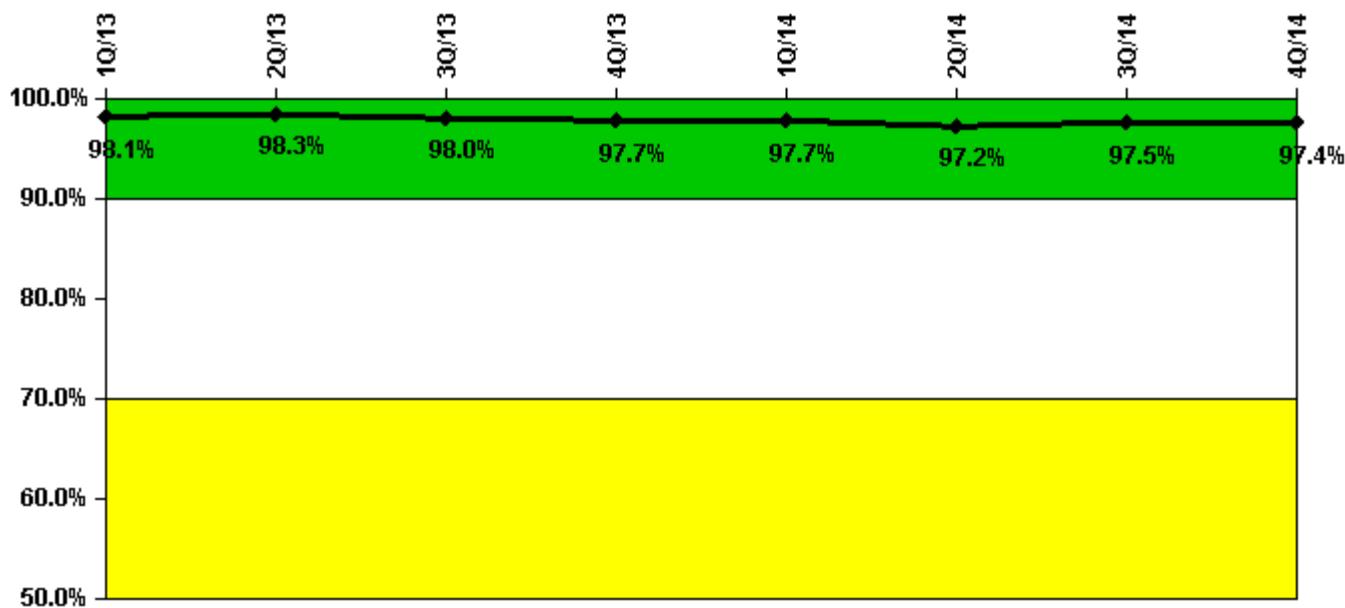
Notes

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	0.210	0	0	0	0	0	0	0	0	0.060	0.050	0.060
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	2.1	0	0.6	0.5	0.6							

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	0.060	0.060	0.070	0.060	0.110	0.070	0.060	0.070	0.070	0.090	0.130	0.160
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	0.6	0.6	0.7	0.6	1.1	0.7	0.6	0.7	0.7	0.9	1.3	1.6

Licensee Comments: none

Drill/Exercise Performance



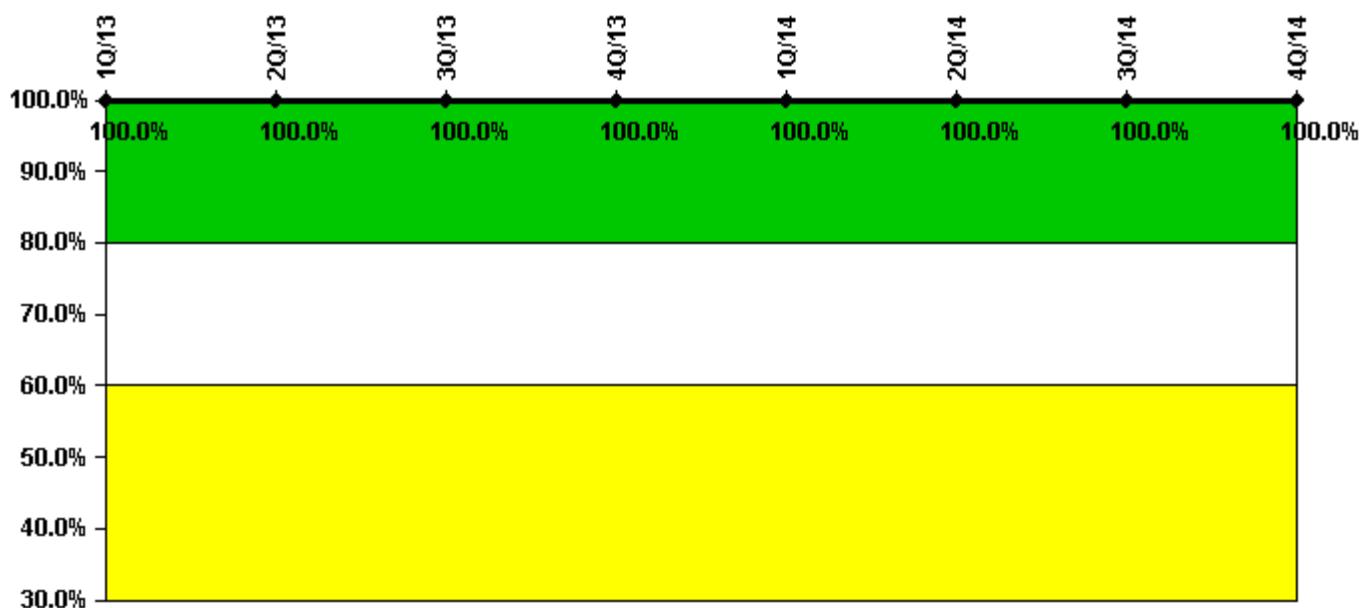
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful opportunities	2.0	32.0	53.0	61.0	4.0	48.0	51.0	47.0
Total opportunities	2.0	32.0	54.0	64.0	4.0	50.0	52.0	48.0
Indicator value	98.1%	98.3%	98.0%	97.7%	97.7%	97.2%	97.5%	97.4%

Licensee Comments: none

ERO Drill Participation



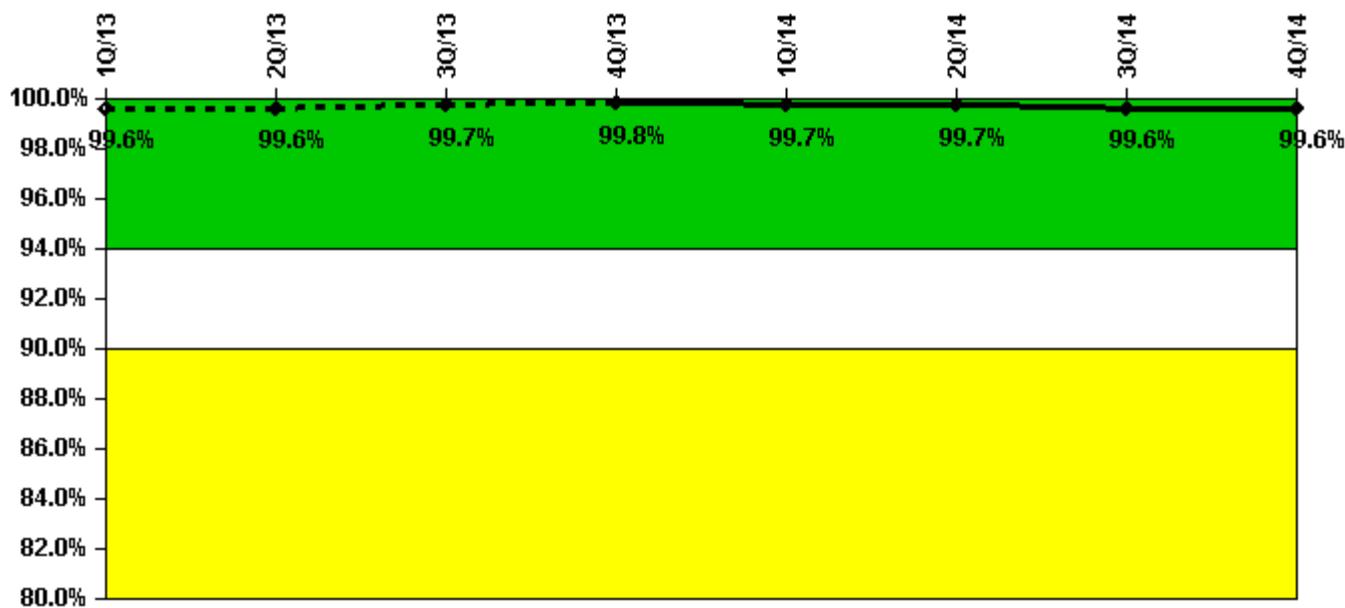
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Participating Key personnel	79.0	79.0	80.0	86.0	50.0	49.0	53.0	55.0
Total Key personnel	79.0	79.0	80.0	86.0	50.0	49.0	53.0	55.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



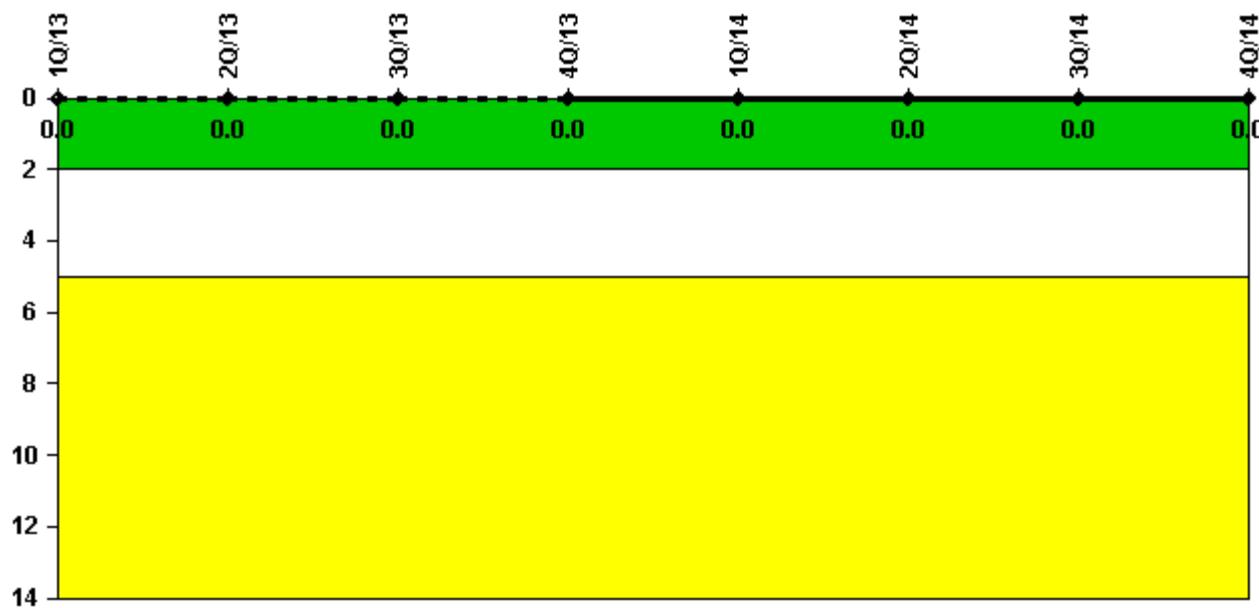
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful siren-tests	871	948	971	947	943	946	945	947
Total sirens-tests	876	949	972	949	949	949	949	949
Indicator value	99.6%	99.6%	99.7%	99.8%	99.7%	99.7%	99.6%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



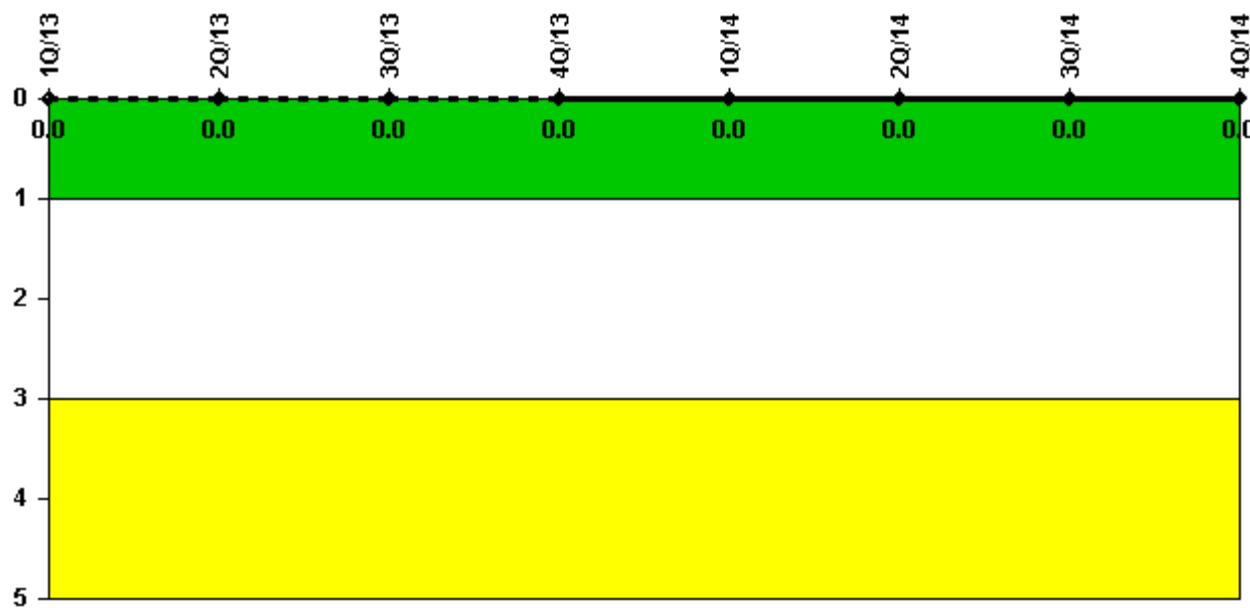
Thresholds: White > 2.0 Yellow > 5.0

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

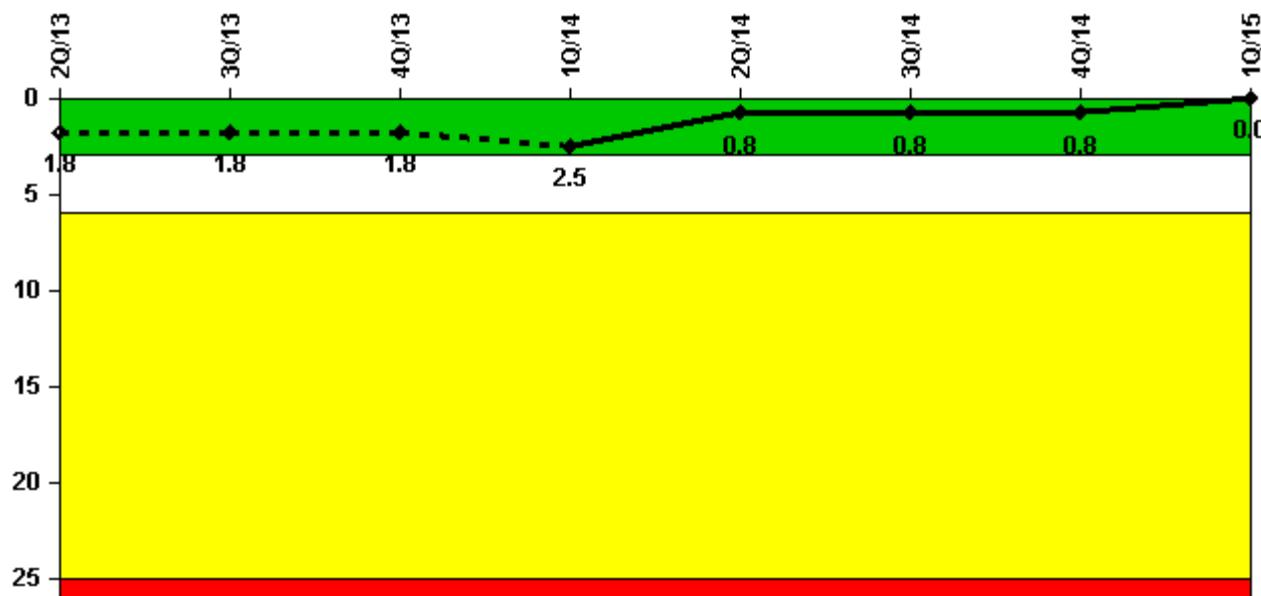
Calvert Cliffs 2

1Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



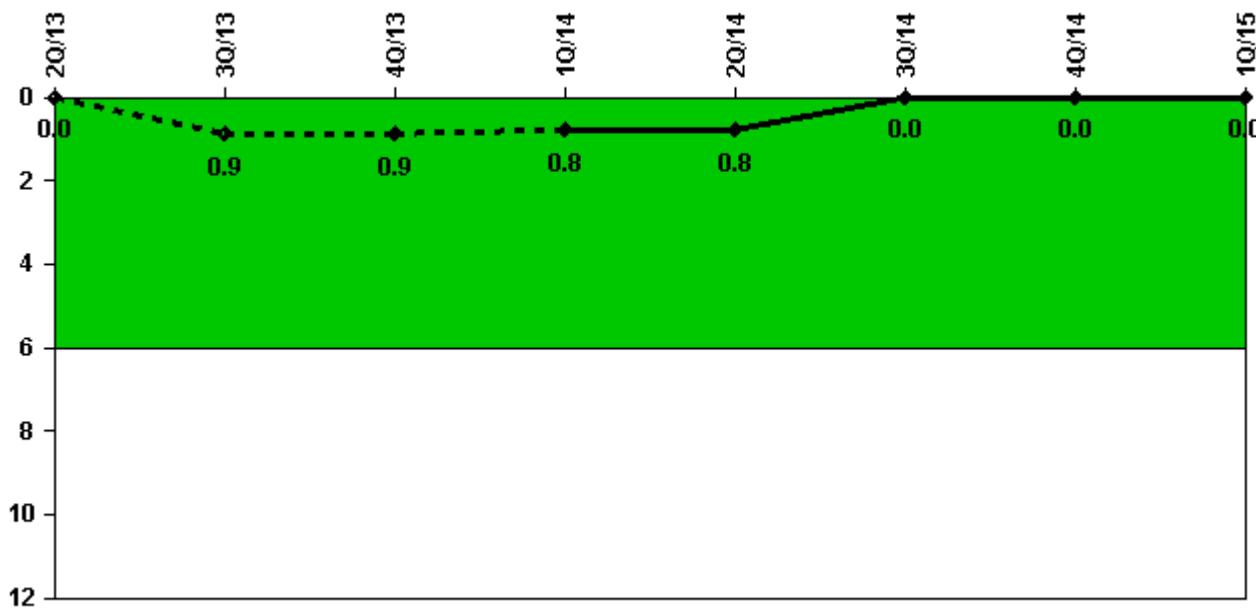
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	2.0	0	0	1.0	0	0	0	0
Critical hours	2076.8	2104.1	2209.0	2079.5	2184.0	2208.0	2209.0	1593.3
Indicator value	1.8	1.8	1.8	2.5	0.8	0.8	0.8	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



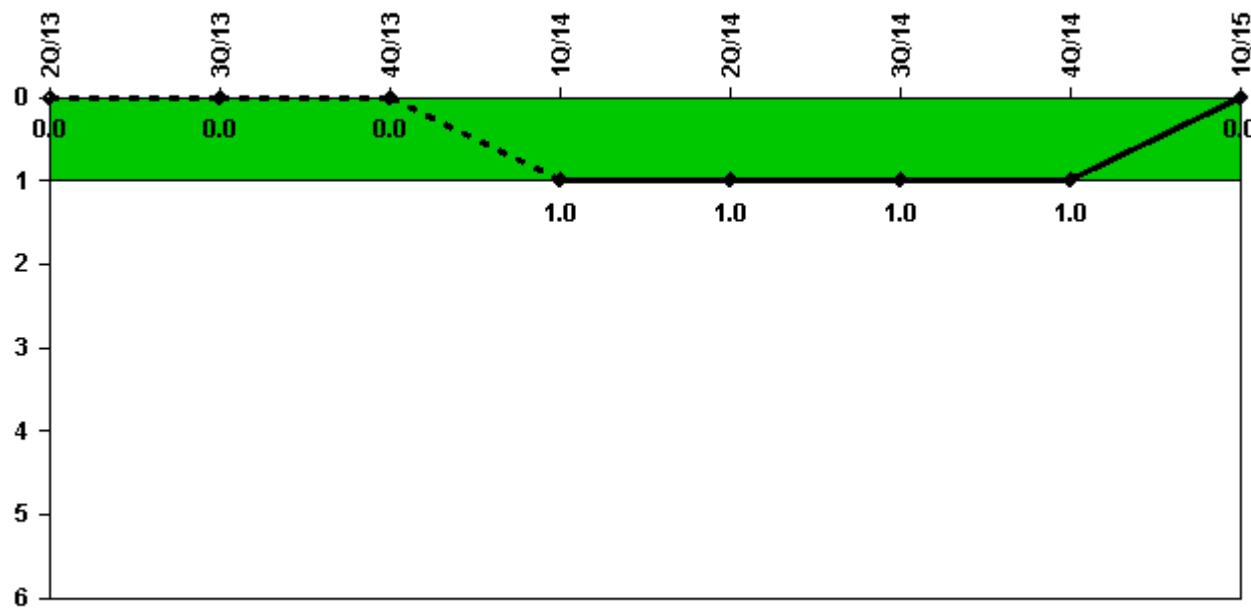
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2076.8	2104.1	2209.0	2079.5	2184.0	2208.0	2209.0	1593.3
Indicator value	0	0.9	0.9	0.8	0.8	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



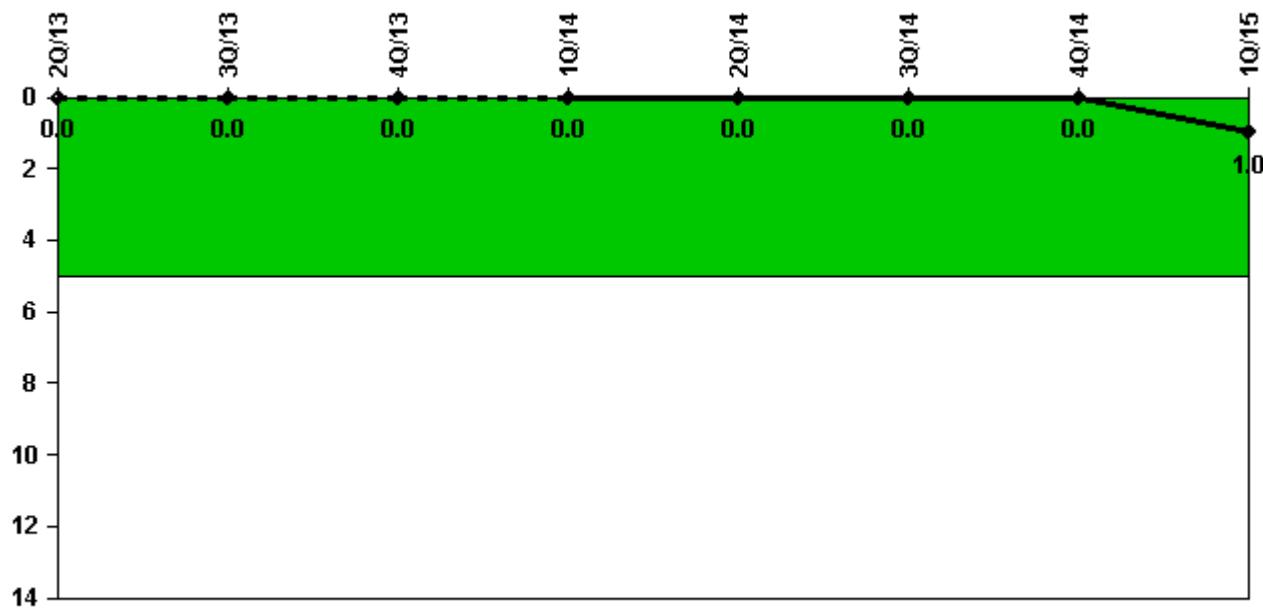
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/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

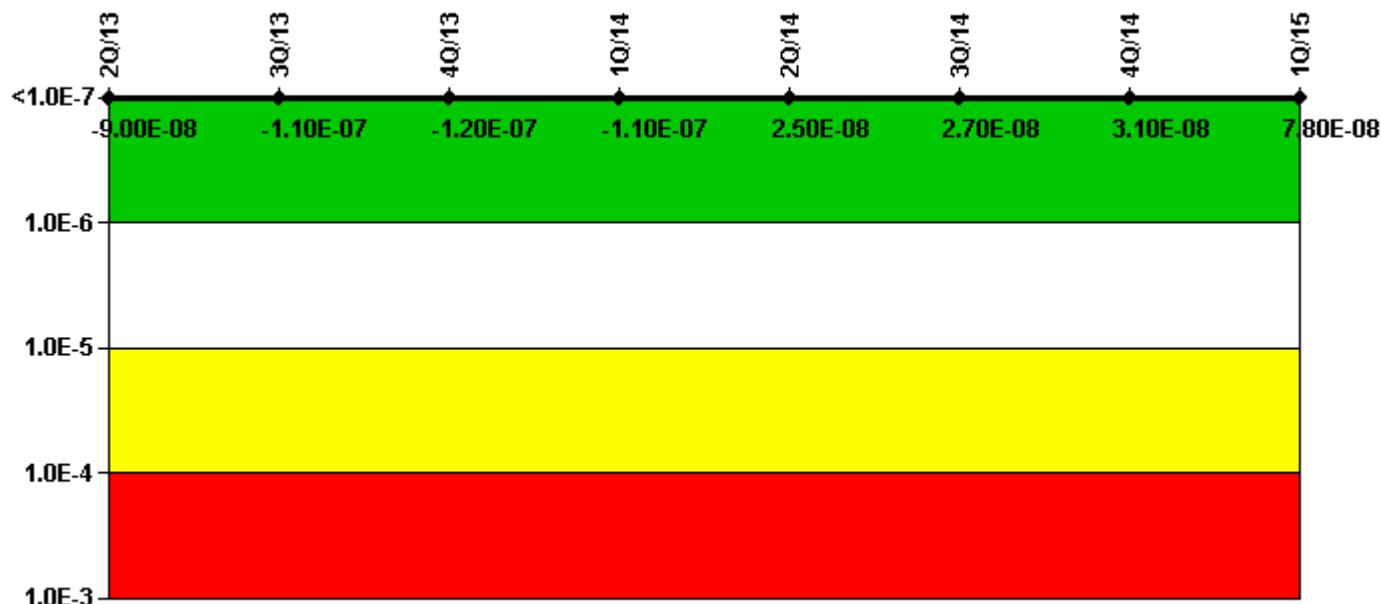
Notes

Safety System Functional Failures (PWR)	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	1
Indicator value	0	1						

Licensee Comments:

1Q/15: 3/22/2015: LER 2015-001-00 05000317/05000318

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

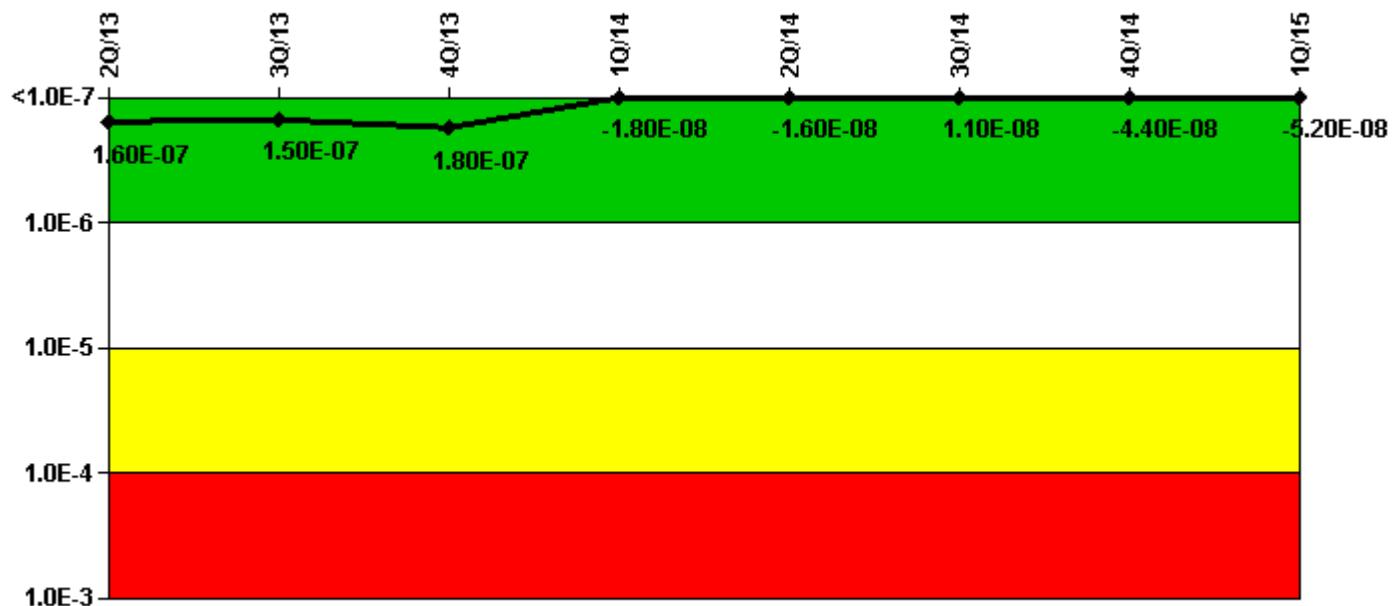
Mitigating Systems Performance Index, Emergency AC Power System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	4.49E-08	3.19E-08	1.31E-08	2.19E-08	4.11E-08	4.01E-08	-5.25E-08	-9.69E-11
URI (Δ CDF)	-1.35E-07	-1.39E-07	-1.35E-07	-1.27E-07	-1.62E-08	-1.32E-08	8.35E-08	7.77E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.00E-08	-1.10E-07	-1.20E-07	-1.10E-07	2.50E-08	2.70E-08	3.10E-08	7.80E-08

Licensee Comments:

3Q/14: 2A DG failure on 6/9/14 was determined to be an MSPI failure per AR 02384639.

2Q/14: 2A DG failure on 6/9/14 was determined to be an MSPI failure per AR 02384639.

Mitigating Systems Performance Index, High Pressure Injection System



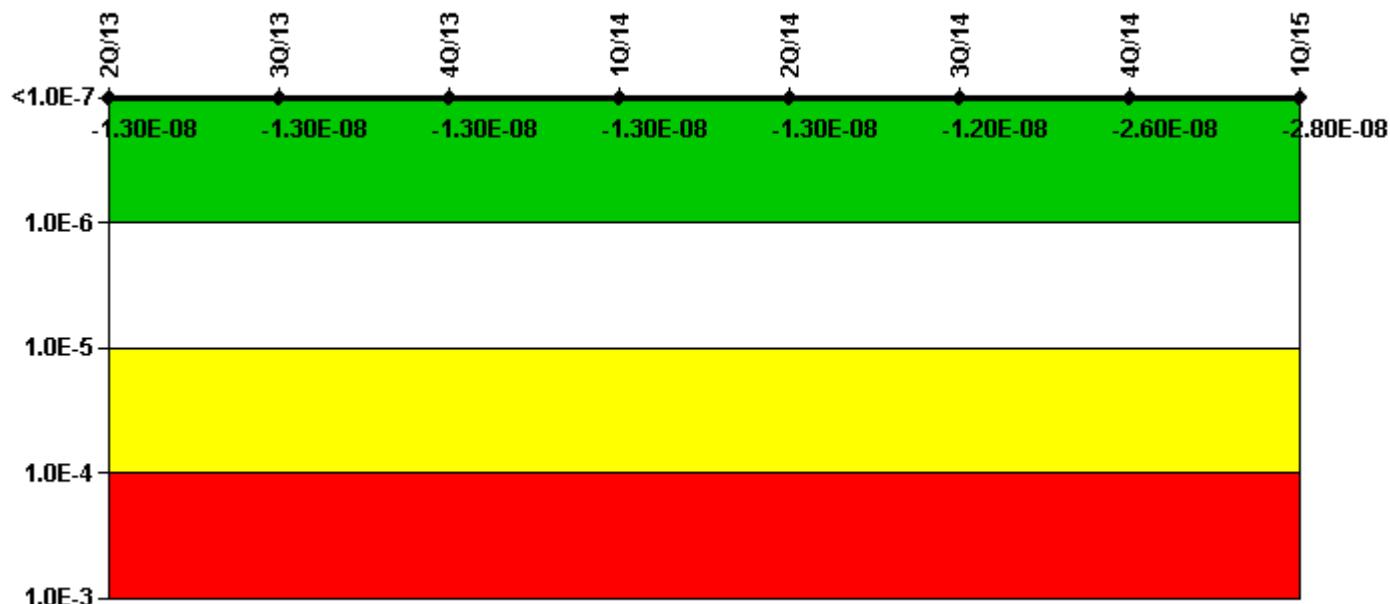
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	6.62E-08	6.30E-08	9.11E-08	2.81E-08	3.06E-08	5.49E-08	-1.74E-09	-5.89E-09
URI (Δ CDF)	9.47E-08	9.20E-08	8.87E-08	-4.60E-08	-4.68E-08	-4.40E-08	-4.22E-08	-4.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.60E-07	1.50E-07	1.80E-07	-1.80E-08	-1.60E-08	1.10E-08	-4.40E-08	-5.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



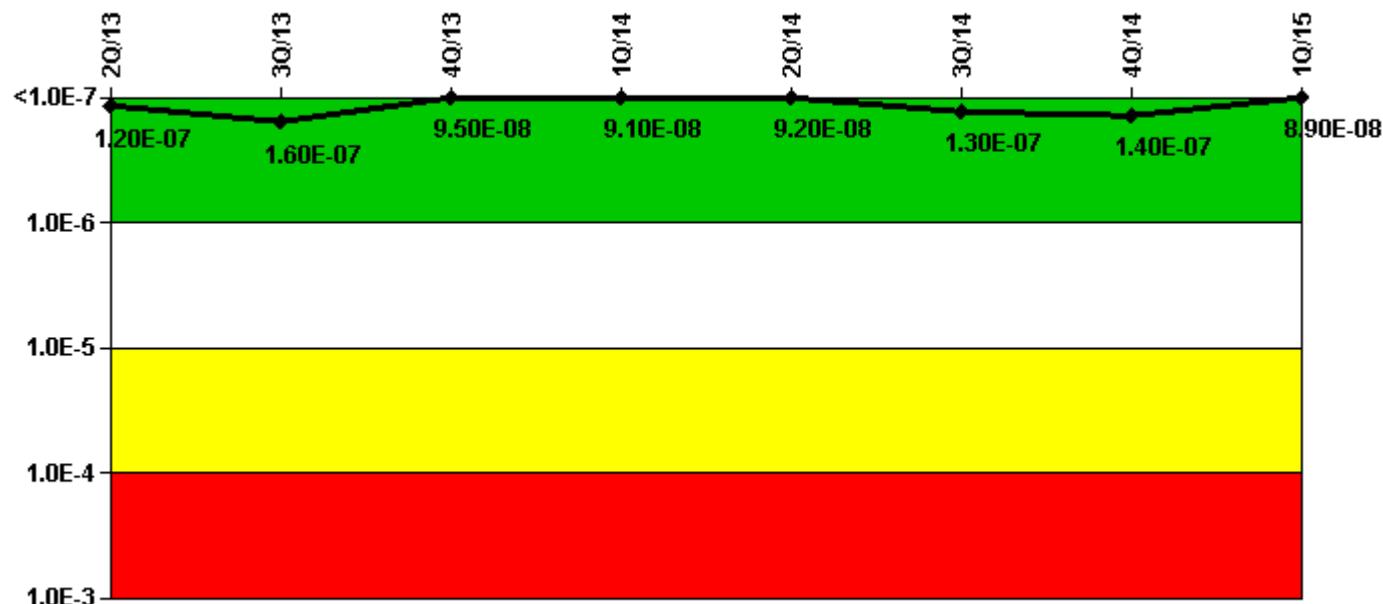
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	-2.44E-09	-3.08E-09	-2.04E-09	-2.70E-09	-2.68E-09	-2.73E-09	-6.30E-09	-3.55E-09
URI (Δ CDF)	-1.06E-08	-1.04E-08	-1.08E-08	-1.03E-08	-1.01E-08	-9.54E-09	-1.93E-08	-2.40E-08
PLE	NO							
Indicator value	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.20E-08	-2.60E-08	-2.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



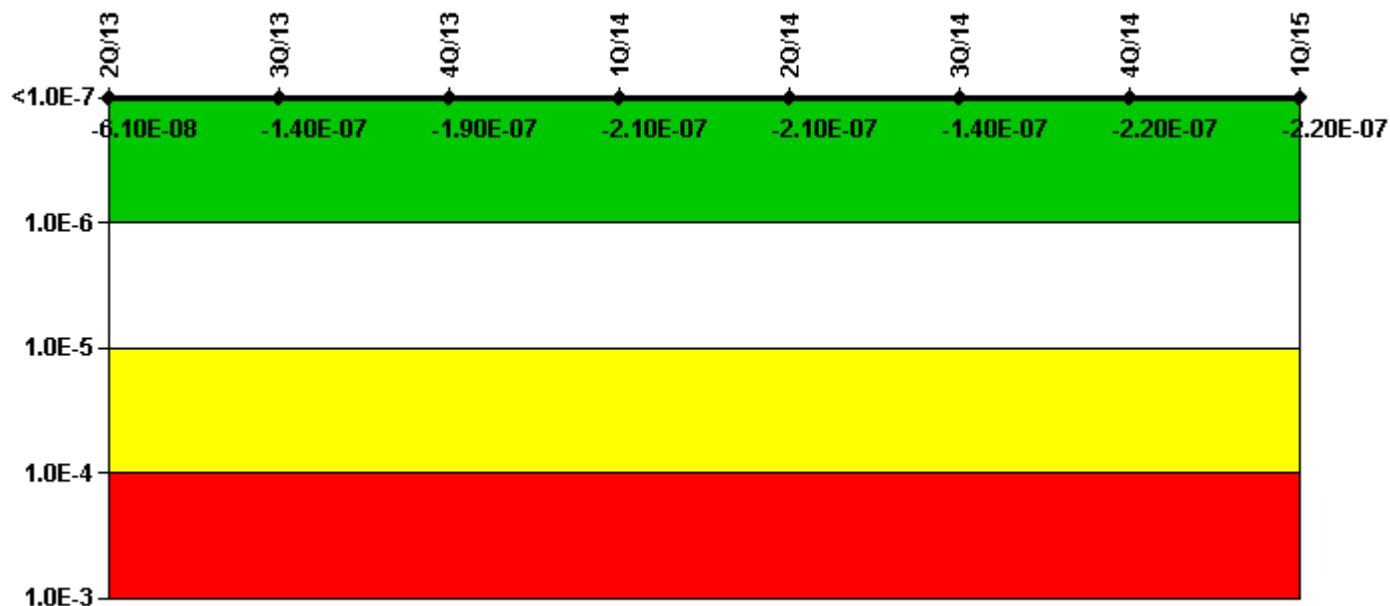
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	1.19E-07	1.58E-07	9.51E-08	8.99E-08	9.11E-08	1.32E-07	1.37E-07	8.93E-08
URI (Δ CDF)	-1.54E-10	-3.66E-10	-1.79E-10	9.79E-10	1.10E-09	1.46E-09	1.20E-10	-4.83E-10
PLE	NO							
Indicator value	1.20E-07	1.60E-07	9.50E-08	9.10E-08	9.20E-08	1.30E-07	1.40E-07	8.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



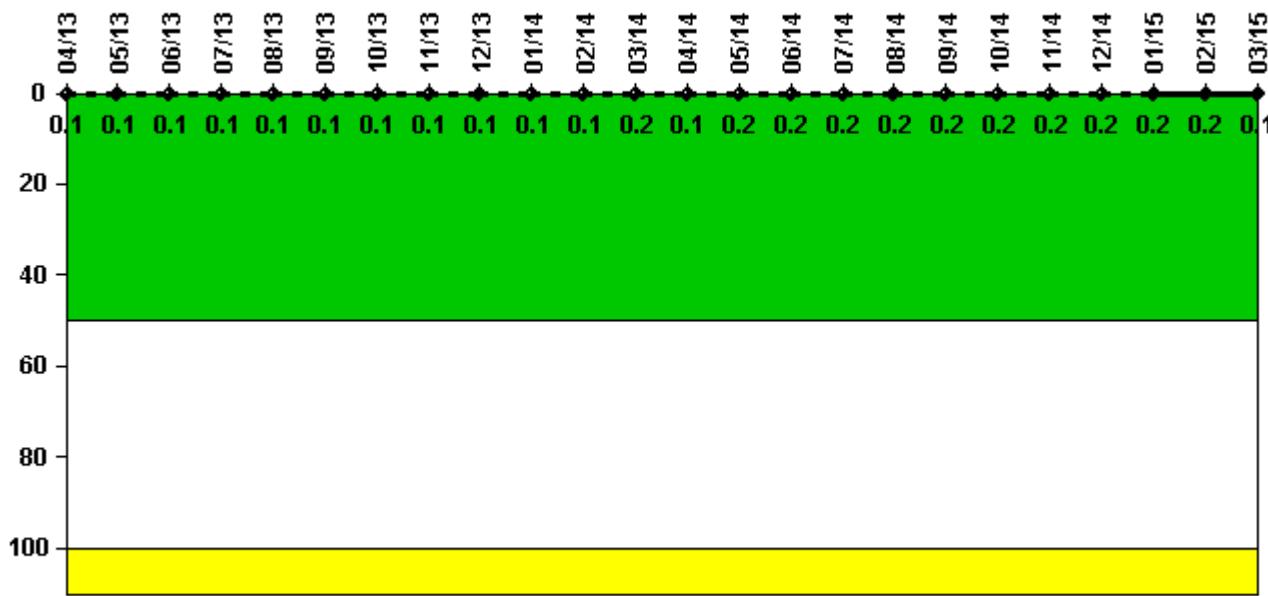
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.77E-07	9.51E-08	5.06E-08	2.64E-08	2.64E-08	9.70E-08	3.18E-09	3.75E-09
URI (Δ CDF)	-2.38E-07	-2.38E-07	-2.38E-07	-2.38E-07	-2.38E-07	-2.37E-07	-2.24E-07	-2.24E-07
PLE	NO							
Indicator value	-6.10E-08	-1.40E-07	-1.90E-07	-2.10E-07	-2.10E-07	-1.40E-07	-2.20E-07	-2.20E-07

Licensee Comments: none

Reactor Coolant System Activity



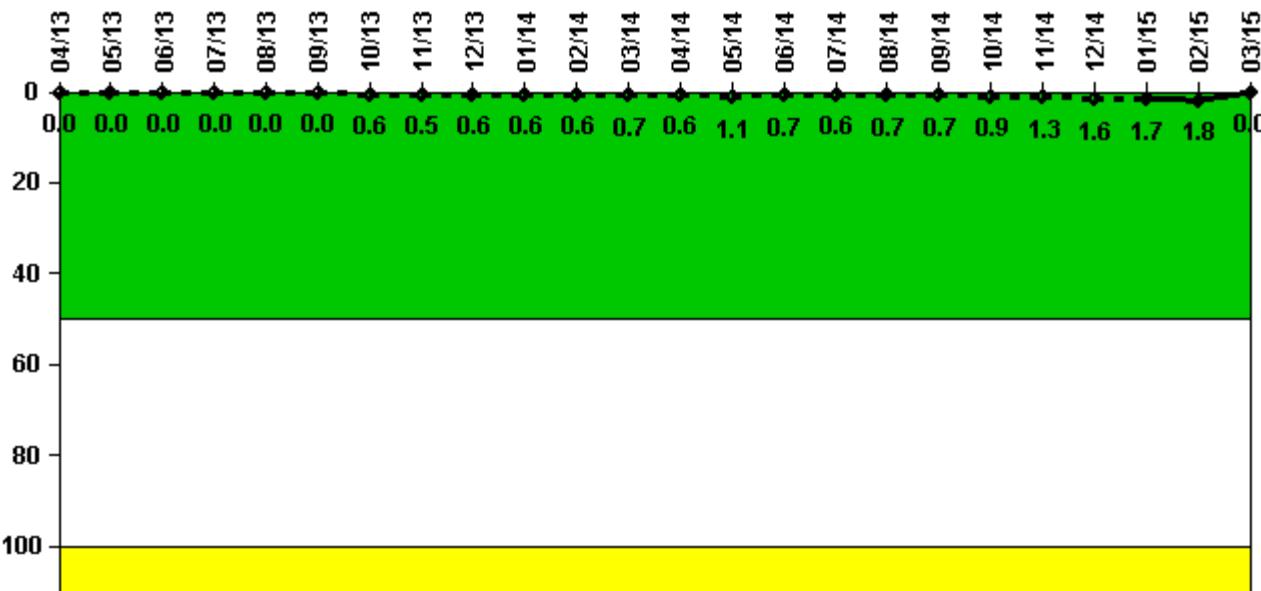
Thresholds: White > 50.0 Yellow > 100.0

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	0.000536	0.000257	0.000617	0.000583	0.000645	0.000693	0.000725	0.000610	0.000586	0.000682	0.000681	0.000758
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
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	0.000723	0.000765	0.000842	0.000863	0.001000	0.001200	0.001120	0.000807	0.000806	0.000903	0.001170	0.000279
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

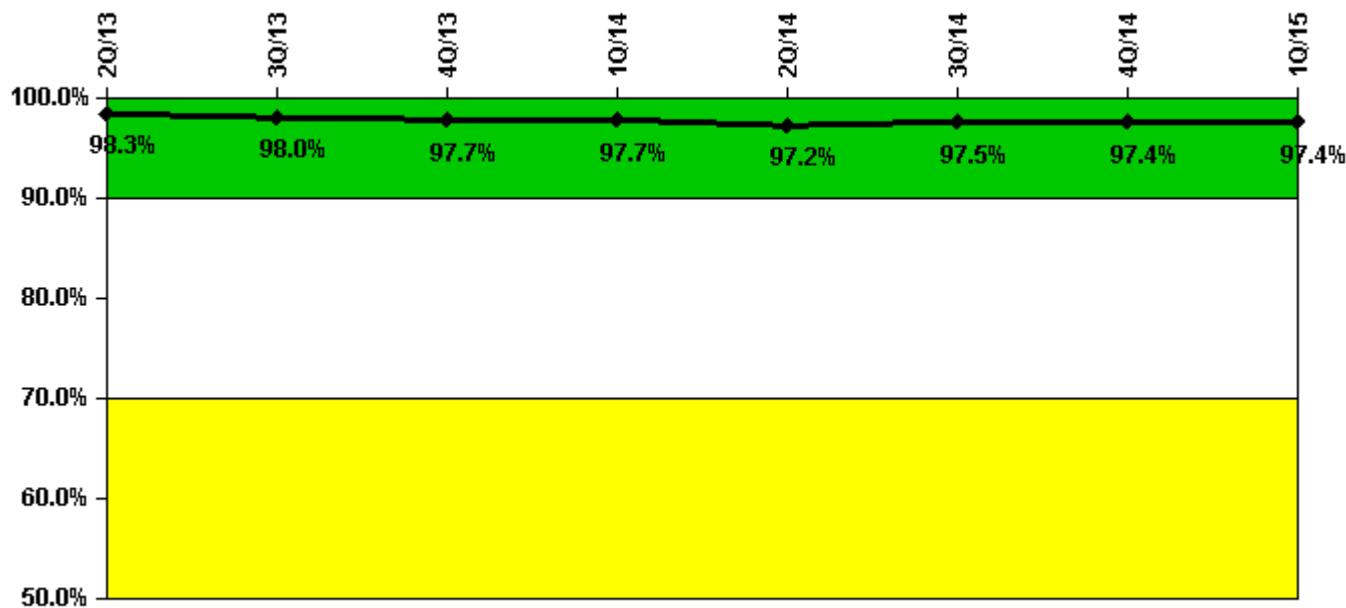
Notes

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	0	0	0	0	0	0.060	0.050	0.060	0.060	0.060	0.070
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	0	0	0	0	0	0	0.6	0.5	0.6	0.6	0.6	0.7

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	0.060	0.110	0.070	0.060	0.070	0.070	0.090	0.130	0.160	0.170	0.180	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	0.6	1.1	0.7	0.6	0.7	0.7	0.9	1.3	1.6	1.7	1.8	0

Licensee Comments: none

Drill/Exercise Performance



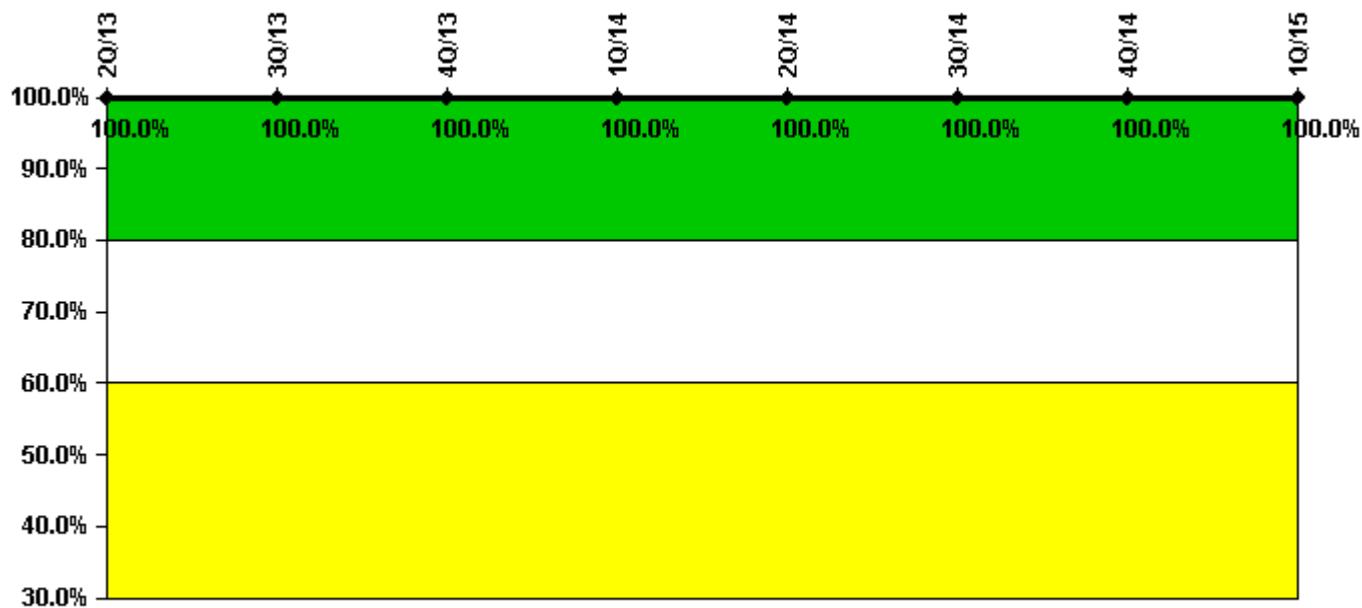
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful opportunities	32.0	53.0	61.0	4.0	48.0	51.0	47.0	9.0
Total opportunities	32.0	54.0	64.0	4.0	50.0	52.0	48.0	9.0
Indicator value	98.3%	98.0%	97.7%	97.7%	97.2%	97.5%	97.4%	97.4%

Licensee Comments: none

ERO Drill Participation



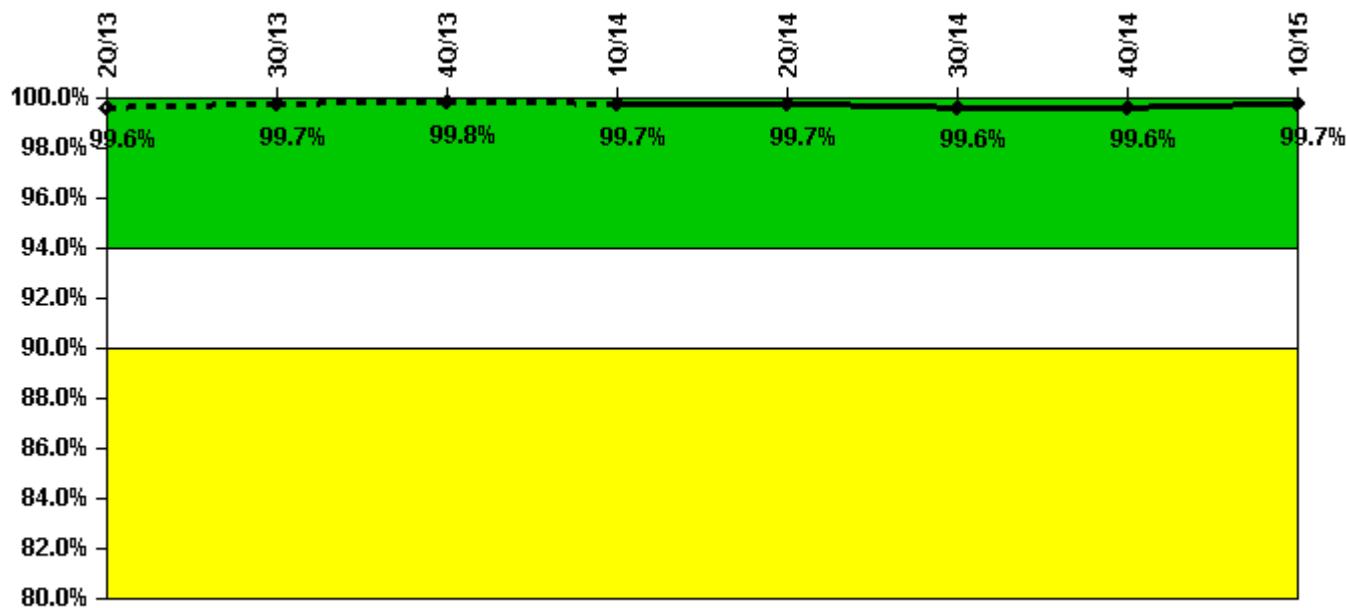
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Participating Key personnel	79.0	80.0	86.0	50.0	49.0	53.0	55.0	49.0
Total Key personnel	79.0	80.0	86.0	50.0	49.0	53.0	55.0	49.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



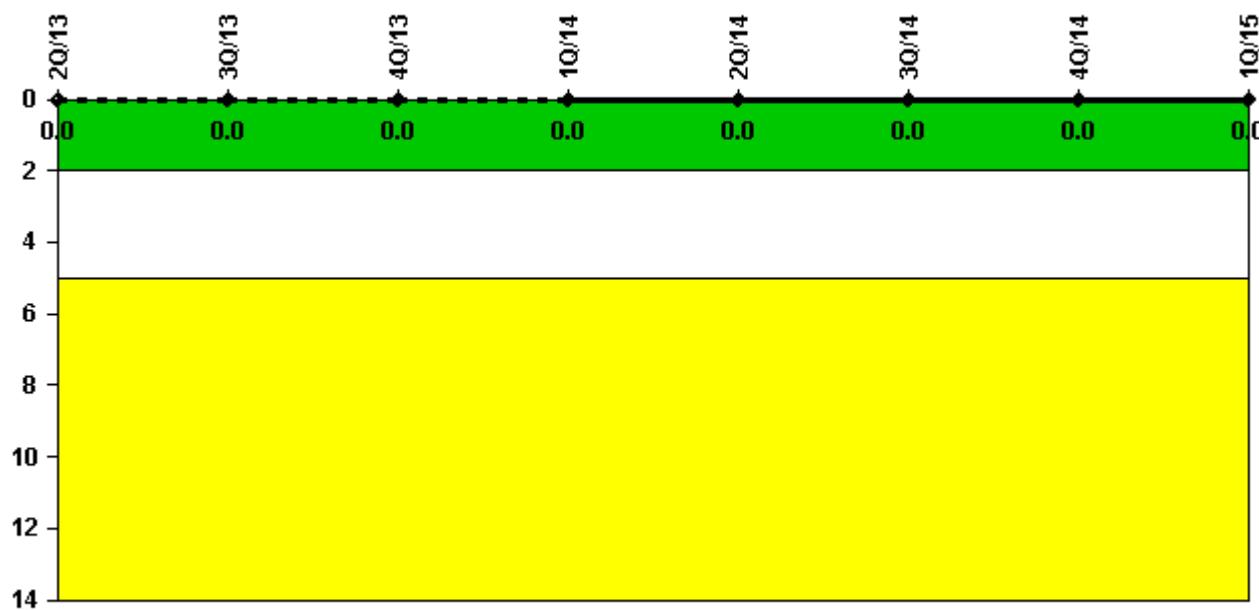
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful siren-tests	948	971	947	943	946	945	947	947
Total sirens-tests	949	972	949	949	949	949	949	949
Indicator value	99.6%	99.7%	99.8%	99.7%	99.7%	99.6%	99.6%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



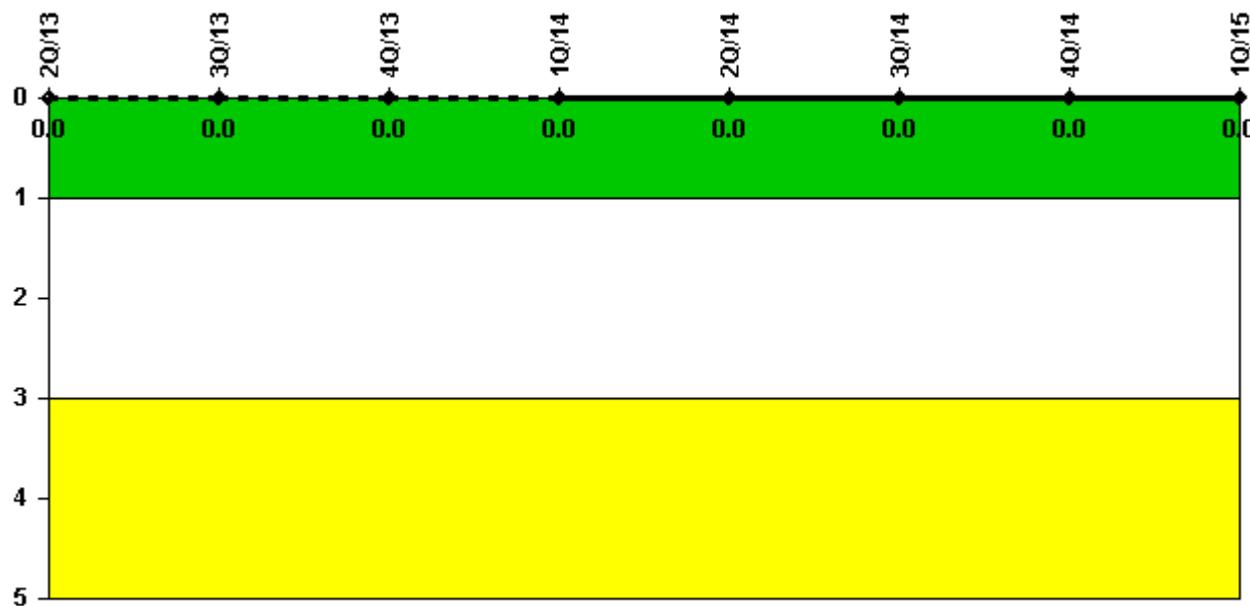
Thresholds: White > 2.0 Yellow > 5.0

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

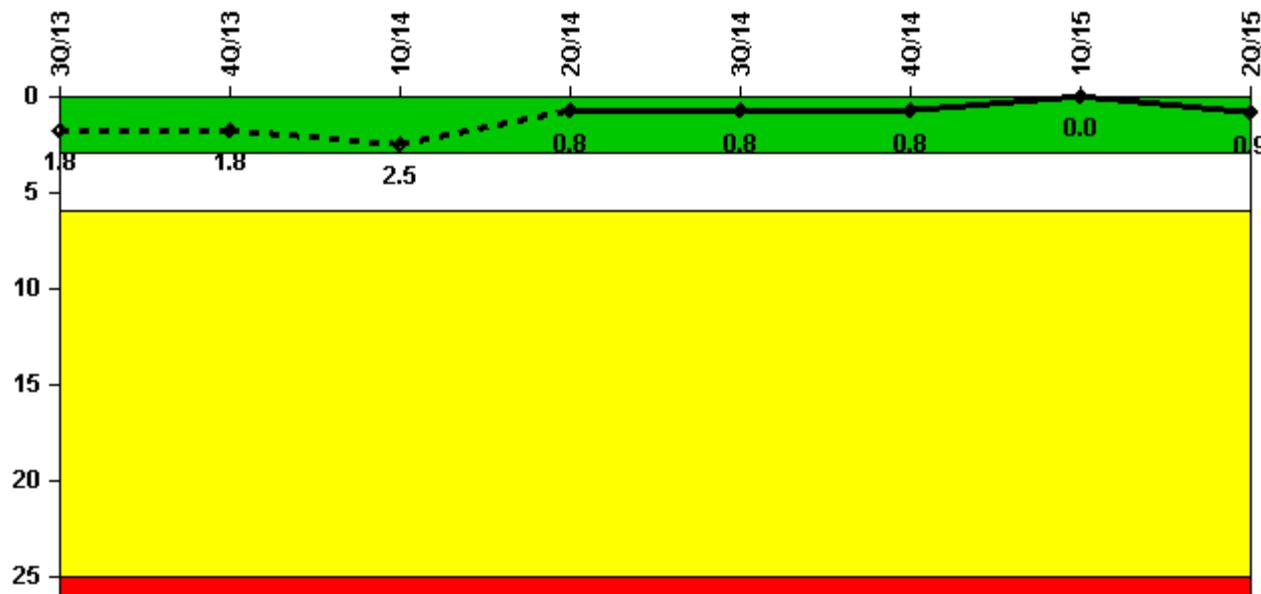
Calvert Cliffs 2

2Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



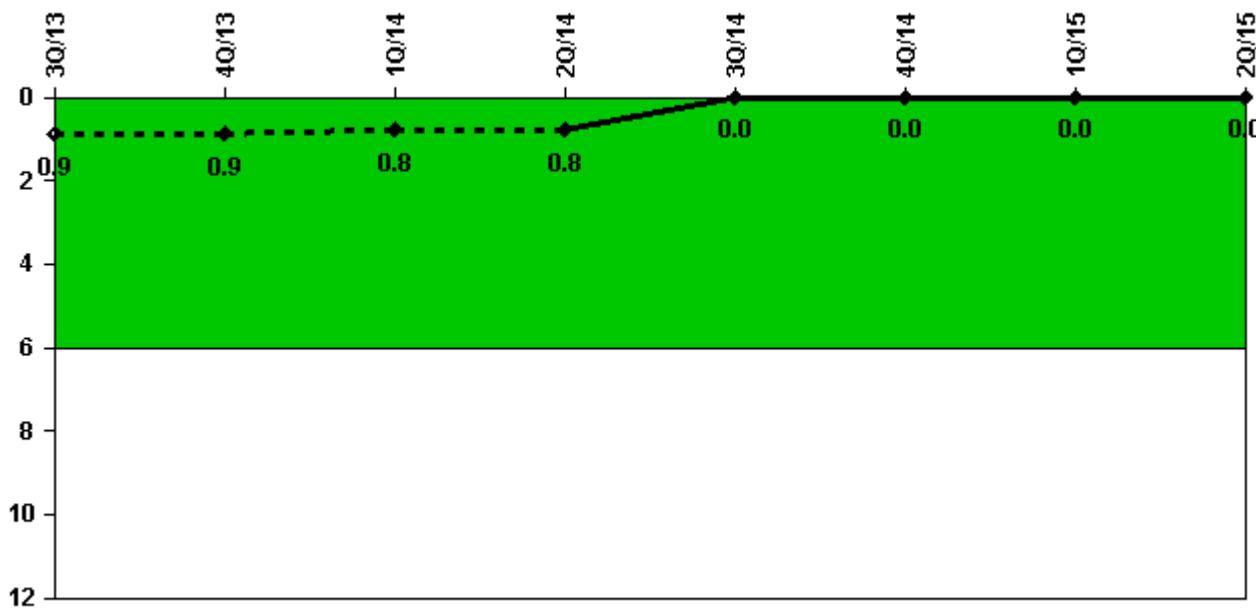
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	1.0	0	0	0	0	1.0
Critical hours	2104.1	2209.0	2079.5	2184.0	2208.0	2209.0	1593.3	2137.8
Indicator value	1.8	1.8	2.5	0.8	0.8	0.8	0	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



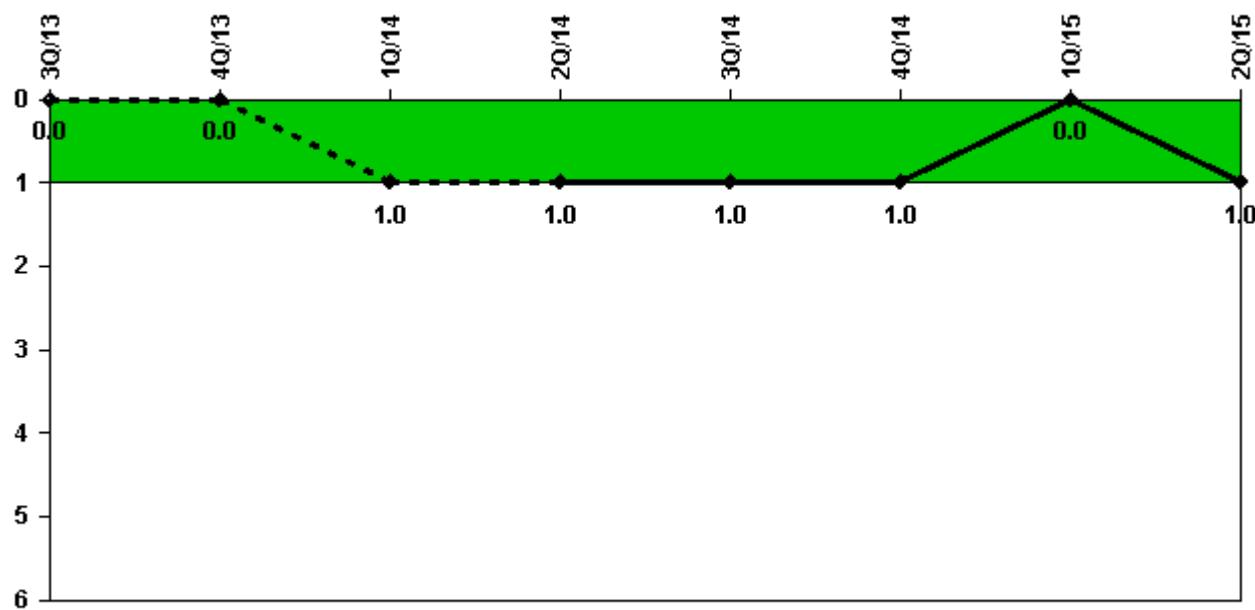
Thresholds: White > 6.0

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	1.0	0	0	0	0	0	0	0
Critical hours	2104.1	2209.0	2079.5	2184.0	2208.0	2209.0	1593.3	2137.8
Indicator value	0.9	0.9	0.8	0.8	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



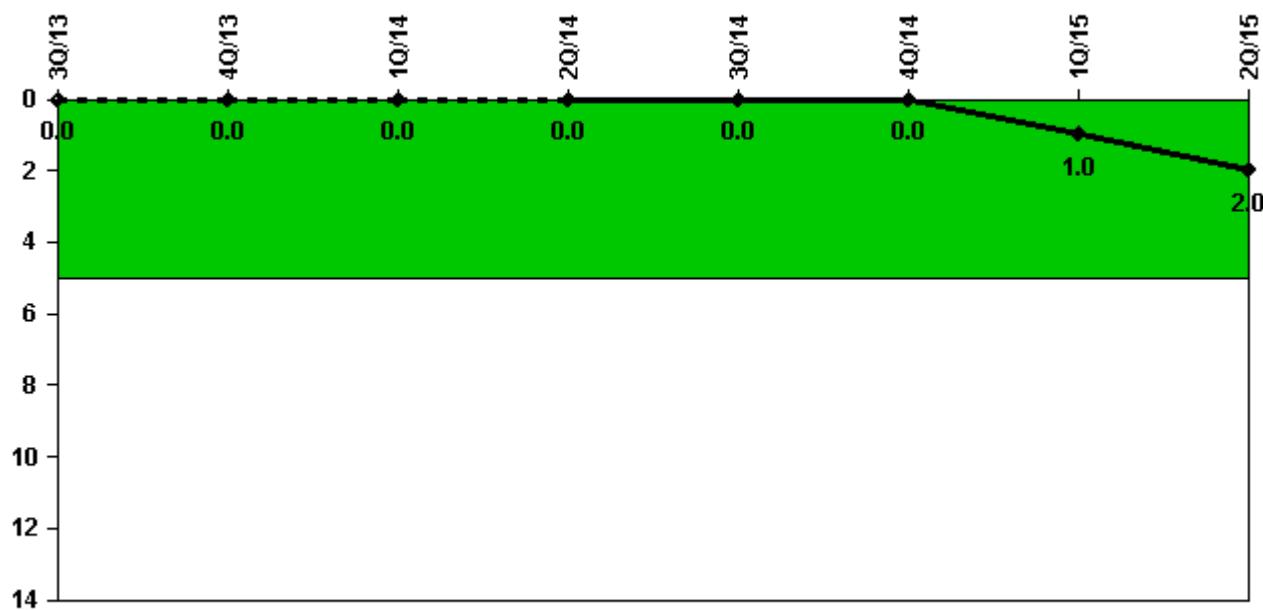
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Scrams with complications	0	0	1.0	0	0	0	0	1.0
Indicator value	0.0	0.0	1.0	1.0	1.0	1.0	0.0	1.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

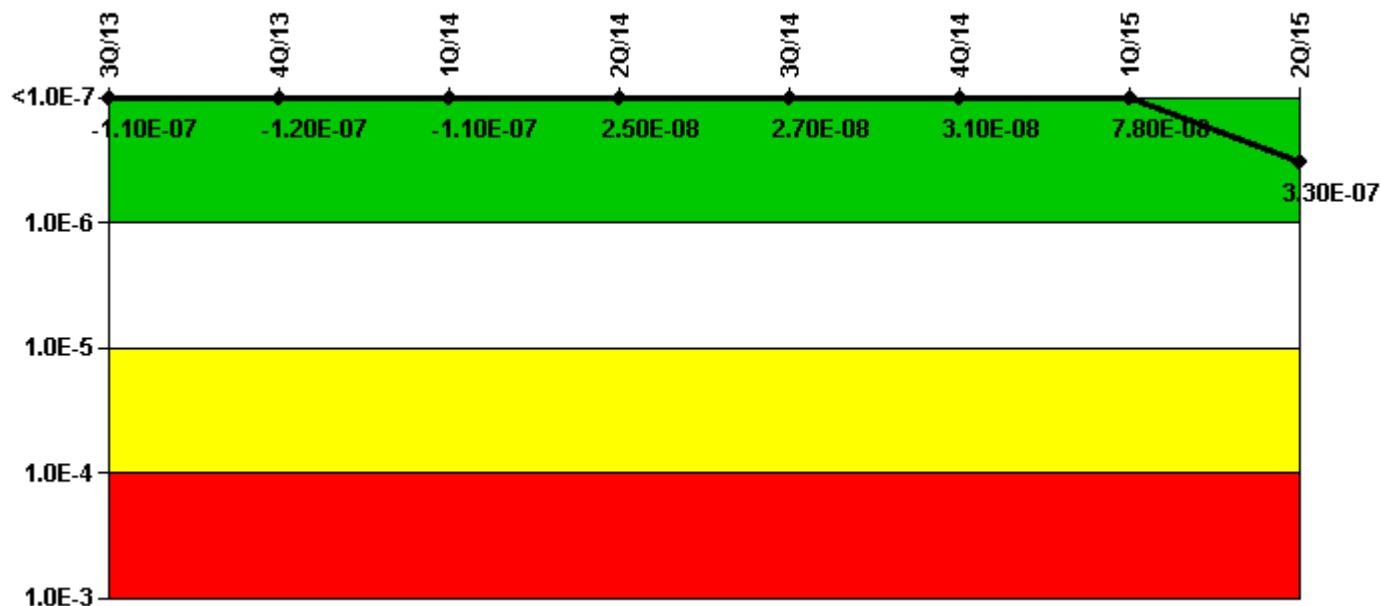
Safety System Functional Failures (PWR)	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Safety System Functional Failures	0	0	0	0	0	0	1	1
Indicator value	0	0	0	0	0	0	1	2

Licensee Comments:

2Q/15: 6/5/2015: LER 318/2015-002-00

1Q/15: 3/22/2015: LER 2015-001-00 05000317/05000318

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

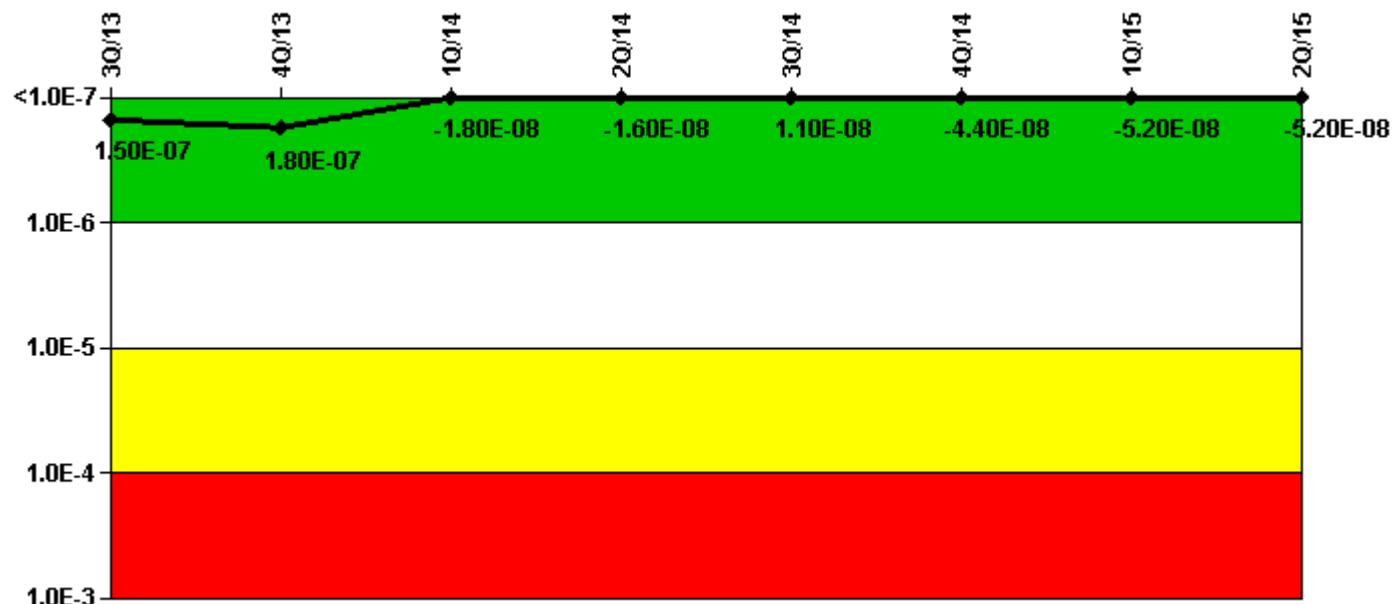
Mitigating Systems Performance Index, Emergency AC Power System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (Δ CDF)	3.19E-08	1.31E-08	2.19E-08	4.11E-08	4.01E-08	-5.25E-08	-9.69E-11	6.56E-10
URI (Δ CDF)	-1.39E-07	-1.35E-07	-1.27E-07	-1.62E-08	-1.32E-08	8.35E-08	7.77E-08	3.25E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-07	-1.20E-07	-1.10E-07	2.50E-08	2.70E-08	3.10E-08	7.80E-08	3.30E-07

Licensee Comments:

3Q/14: 2A DG failure on 6/9/14 was determined to be an MSPI failure per AR 02384639.

2Q/14: 2A DG failure on 6/9/14 was determined to be an MSPI failure per AR 02384639.

Mitigating Systems Performance Index, High Pressure Injection System



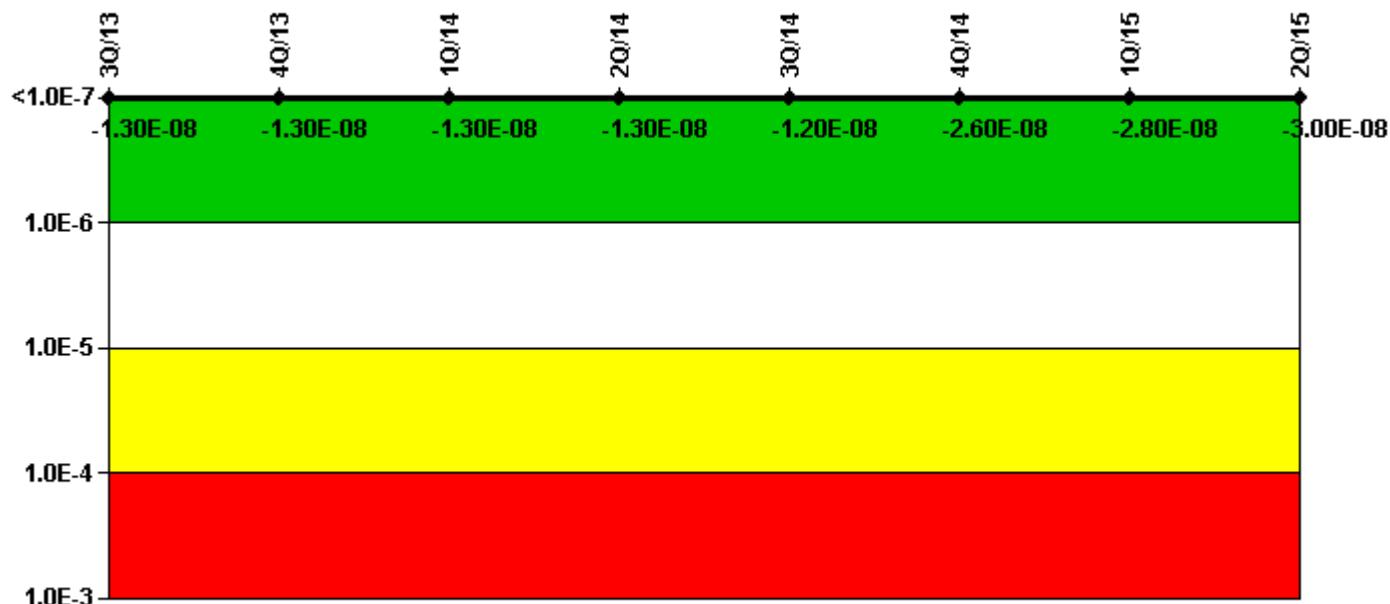
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	6.30E-08	9.11E-08	2.81E-08	3.06E-08	5.49E-08	-1.74E-09	-5.89E-09	-5.54E-09
URI (Δ CDF)	9.20E-08	8.87E-08	-4.60E-08	-4.68E-08	-4.40E-08	-4.22E-08	-4.62E-08	-4.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.50E-07	1.80E-07	-1.80E-08	-1.60E-08	1.10E-08	-4.40E-08	-5.20E-08	-5.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



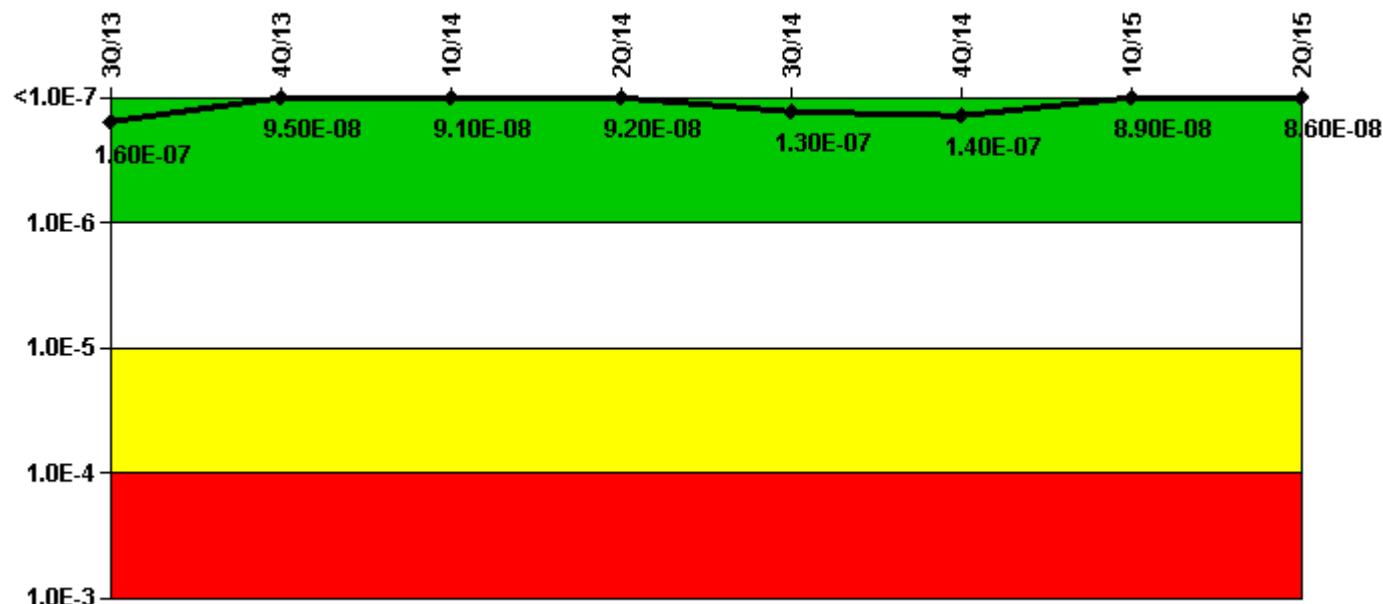
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (Δ CDF)	-3.08E-09	-2.04E-09	-2.70E-09	-2.68E-09	-2.73E-09	-6.30E-09	-3.55E-09	-5.15E-09
URI (Δ CDF)	-1.04E-08	-1.08E-08	-1.03E-08	-1.01E-08	-9.54E-09	-1.93E-08	-2.40E-08	-2.51E-08
PLE	NO							
Indicator value	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.20E-08	-2.60E-08	-2.80E-08	-3.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



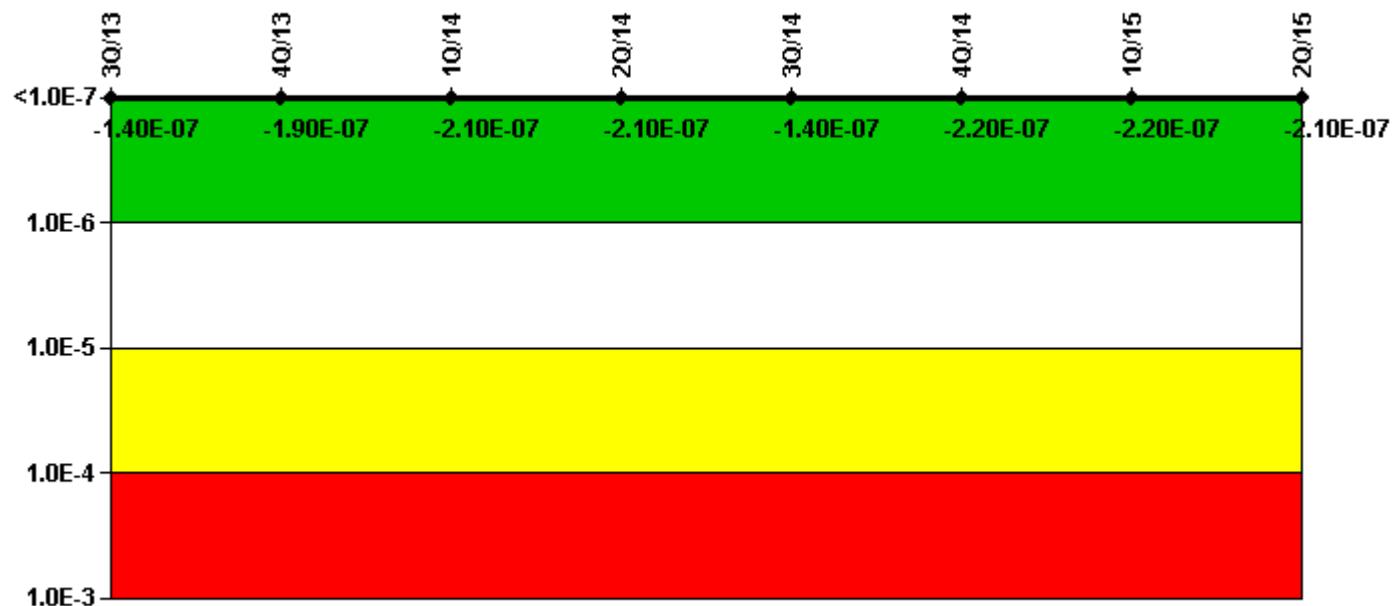
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.58E-07	9.51E-08	8.99E-08	9.11E-08	1.32E-07	1.37E-07	8.93E-08	8.65E-08
URI (Δ CDF)	-3.66E-10	-1.79E-10	9.79E-10	1.10E-09	1.46E-09	1.20E-10	-4.83E-10	-3.33E-10
PLE	NO							
Indicator value	1.60E-07	9.50E-08	9.10E-08	9.20E-08	1.30E-07	1.40E-07	8.90E-08	8.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



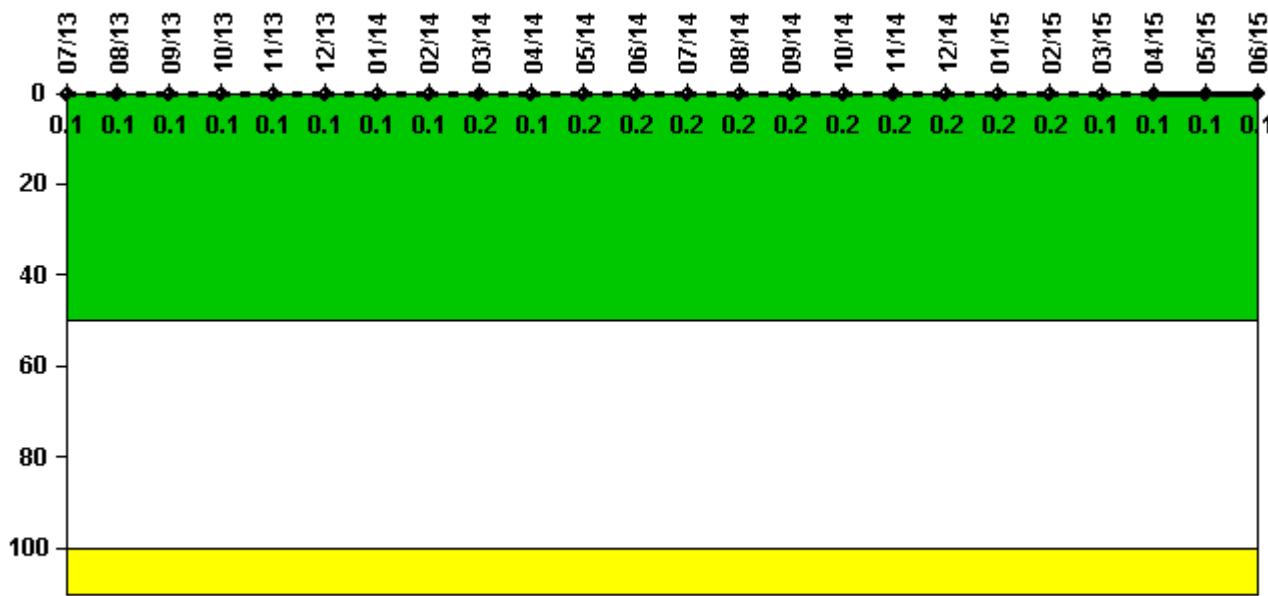
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	9.51E-08	5.06E-08	2.64E-08	2.64E-08	9.70E-08	3.18E-09	3.75E-09	1.04E-08
URI (Δ CDF)	-2.38E-07	-2.38E-07	-2.38E-07	-2.38E-07	-2.37E-07	-2.24E-07	-2.24E-07	-2.24E-07
PLE	NO							
Indicator value	-1.40E-07	-1.90E-07	-2.10E-07	-2.10E-07	-1.40E-07	-2.20E-07	-2.20E-07	-2.10E-07

Licensee Comments: none

Reactor Coolant System Activity



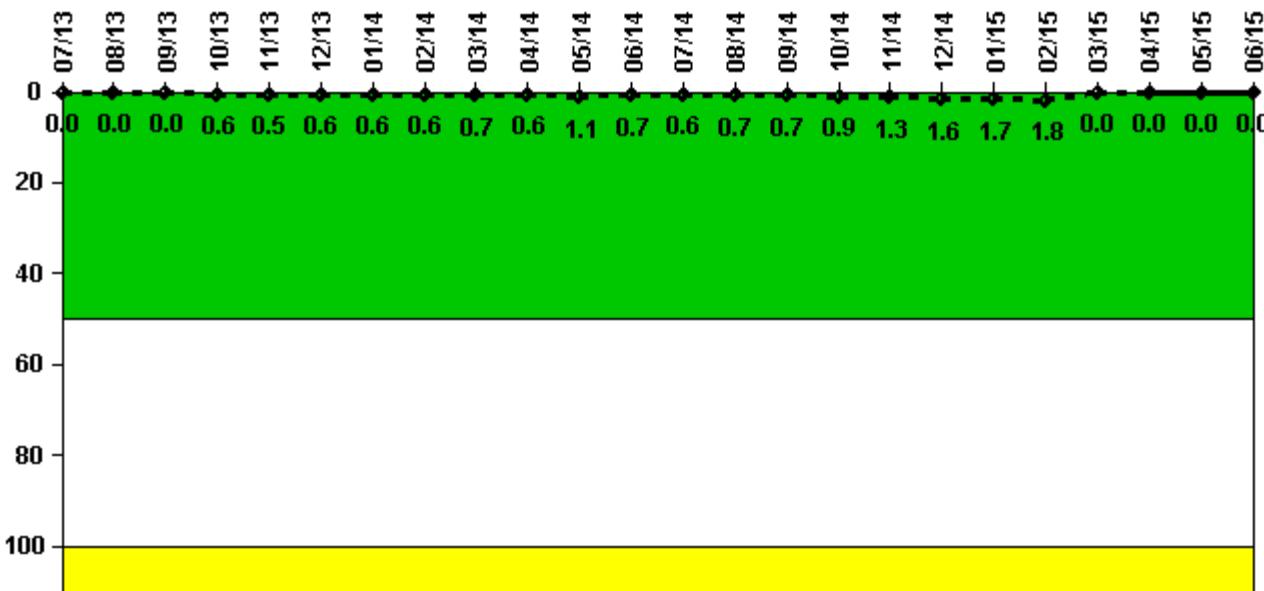
Thresholds: White > 50.0 Yellow > 100.0

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	0.000583	0.000645	0.000693	0.000725	0.000610	0.000586	0.000682	0.000681	0.000758	0.000723	0.000765	0.000842
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.2	0.1	0.2	0.2							
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	0.000863	0.001000	0.001200	0.001120	0.000807	0.000806	0.000903	0.001170	0.000279	0.000511	0.000288	0.000310
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.2	0.1	0.1	0.1	0.1							

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

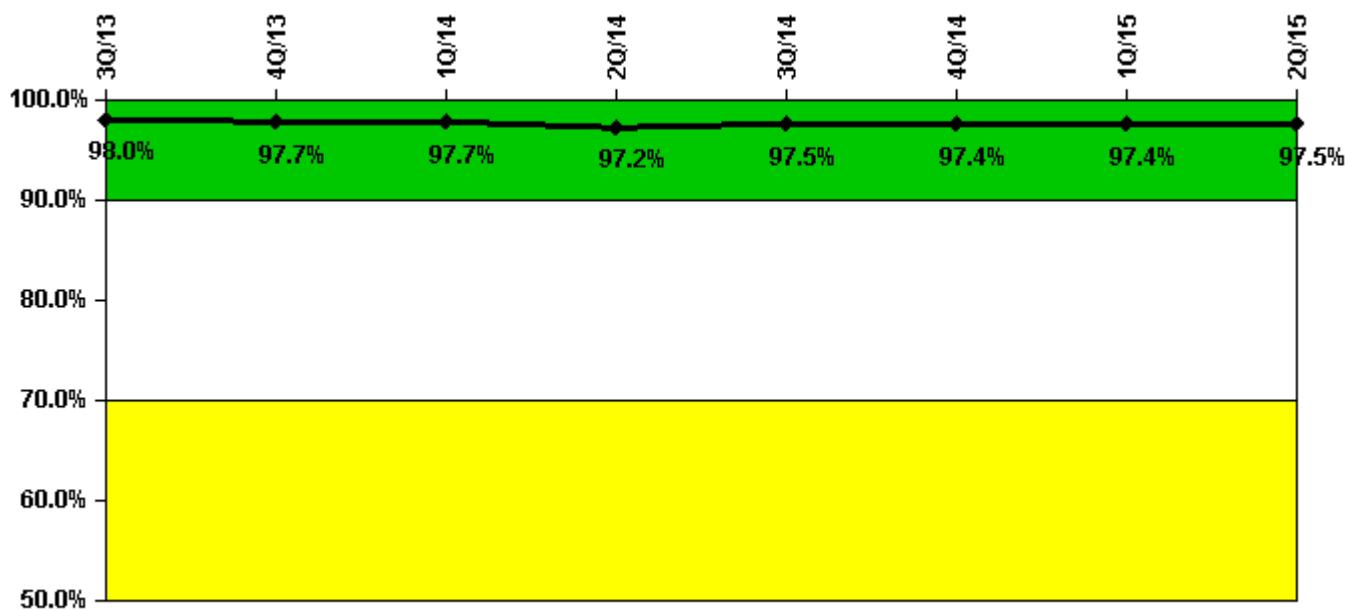
Notes

Reactor Coolant System Leakage	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	0	0	0.060	0.050	0.060	0.060	0.060	0.070	0.060	0.110	0.070
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	0	0	0	0.6	0.5	0.6	0.6	0.6	0.7	0.6	1.1	0.7

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	0.060	0.070	0.070	0.090	0.130	0.160	0.170	0.180	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	0.6	0.7	0.7	0.9	1.3	1.6	1.7	1.8	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



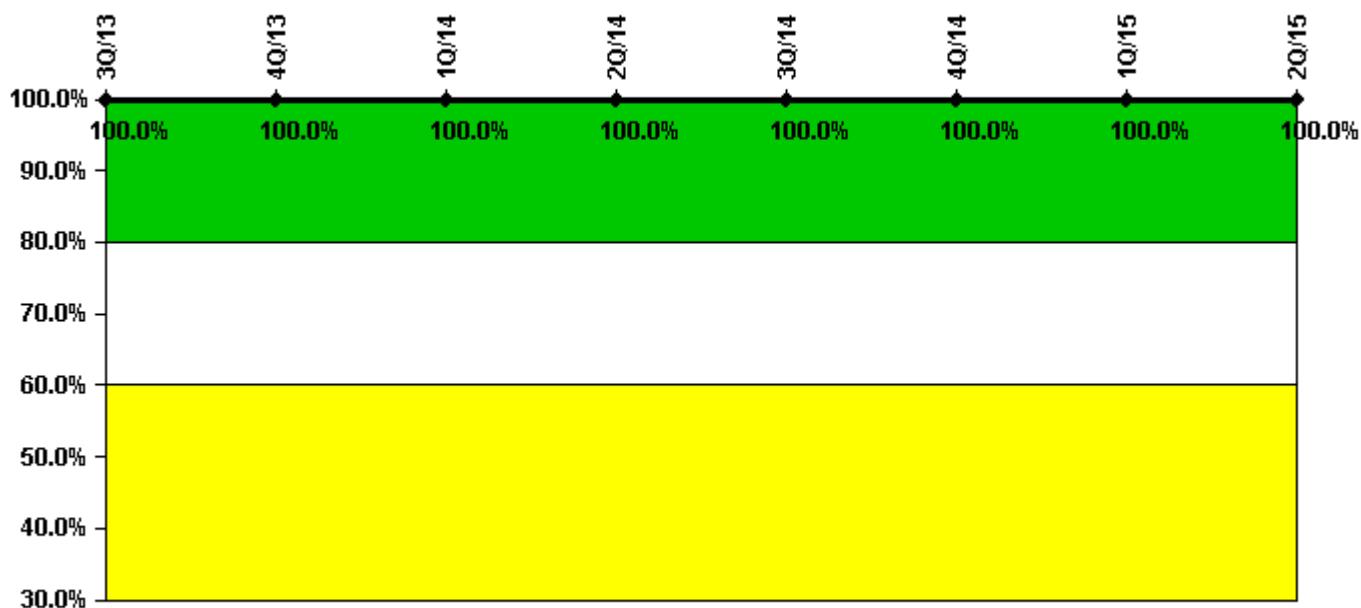
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful opportunities	53.0	61.0	4.0	48.0	51.0	47.0	9.0	75.0
Total opportunities	54.0	64.0	4.0	50.0	52.0	48.0	9.0	76.0
Indicator value	98.0%	97.7%	97.7%	97.2%	97.5%	97.4%	97.4%	97.5%

Licensee Comments: none

ERO Drill Participation



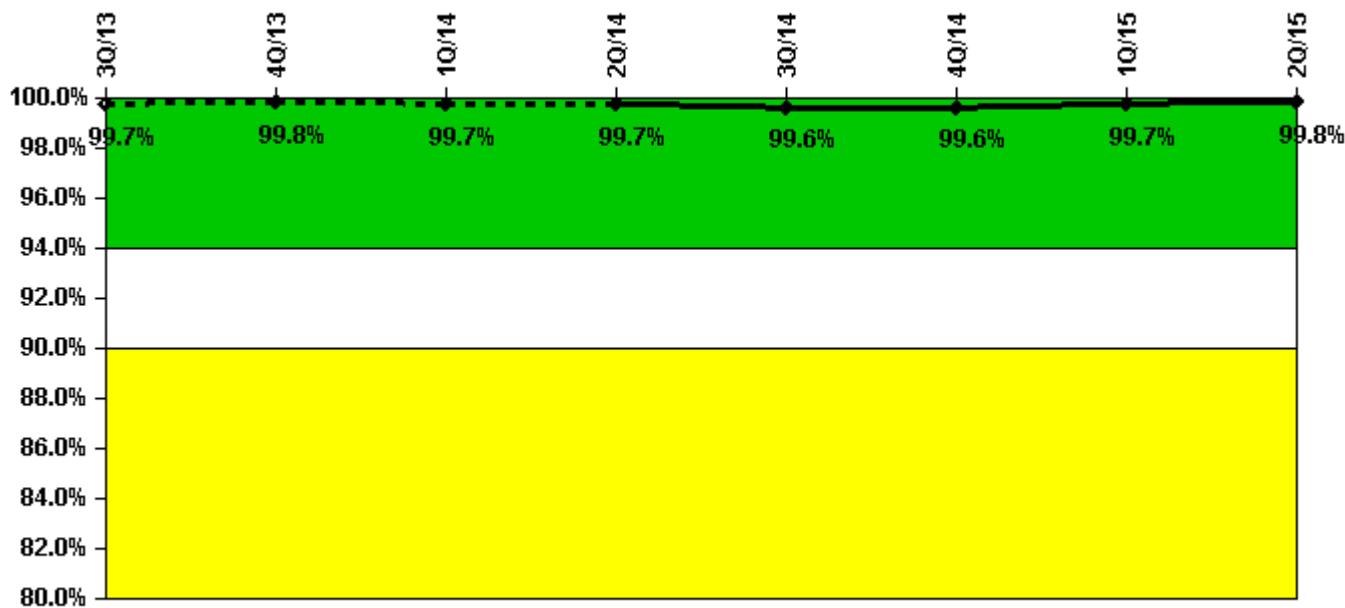
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Participating Key personnel	80.0	86.0	50.0	49.0	53.0	55.0	49.0	46.0
Total Key personnel	80.0	86.0	50.0	49.0	53.0	55.0	49.0	46.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



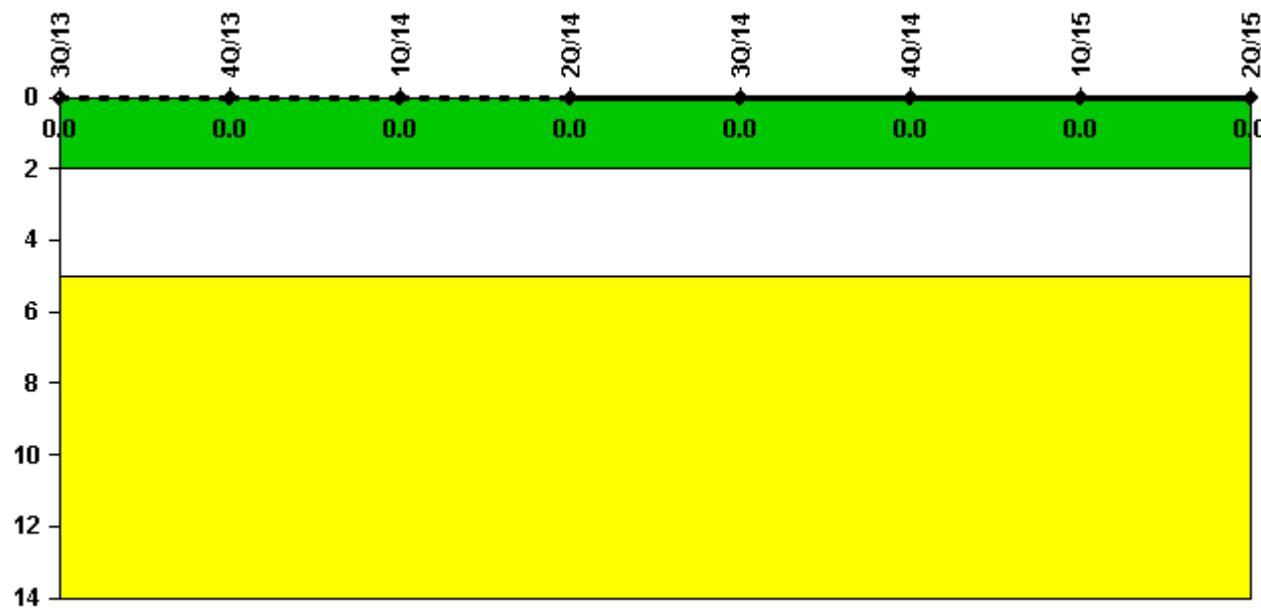
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful siren-tests	971	947	943	946	945	947	947	948
Total sirens-tests	972	949	949	949	949	949	949	949
Indicator value	99.7%	99.8%	99.7%	99.7%	99.6%	99.6%	99.7%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness

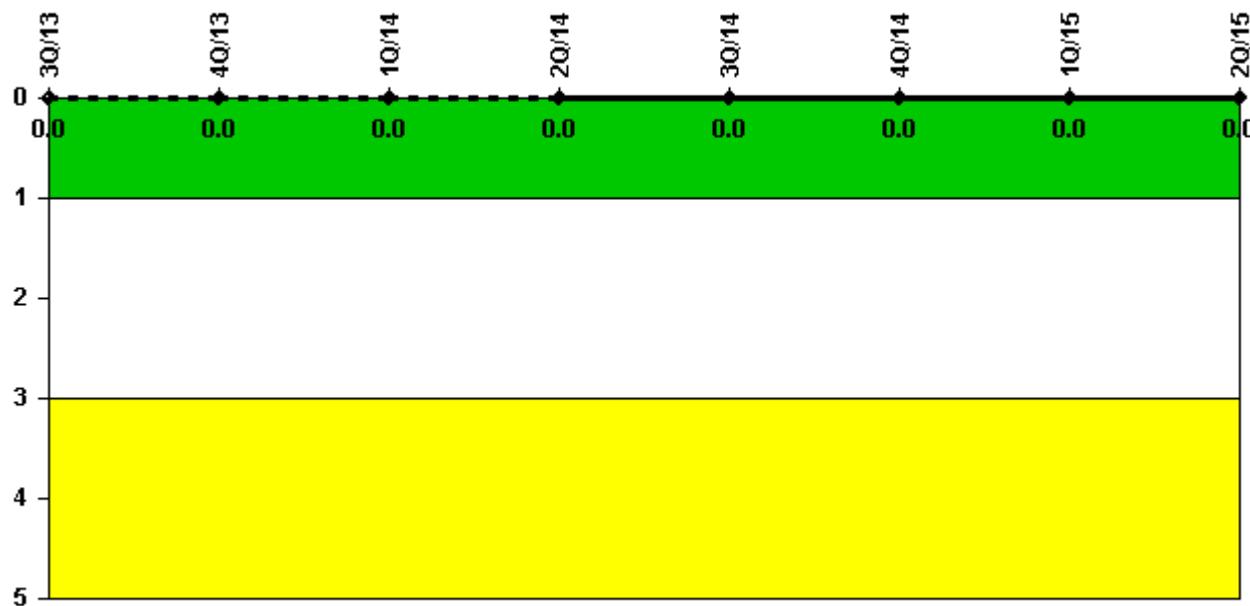


Thresholds: White > 2.0 Yellow > 5.0

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

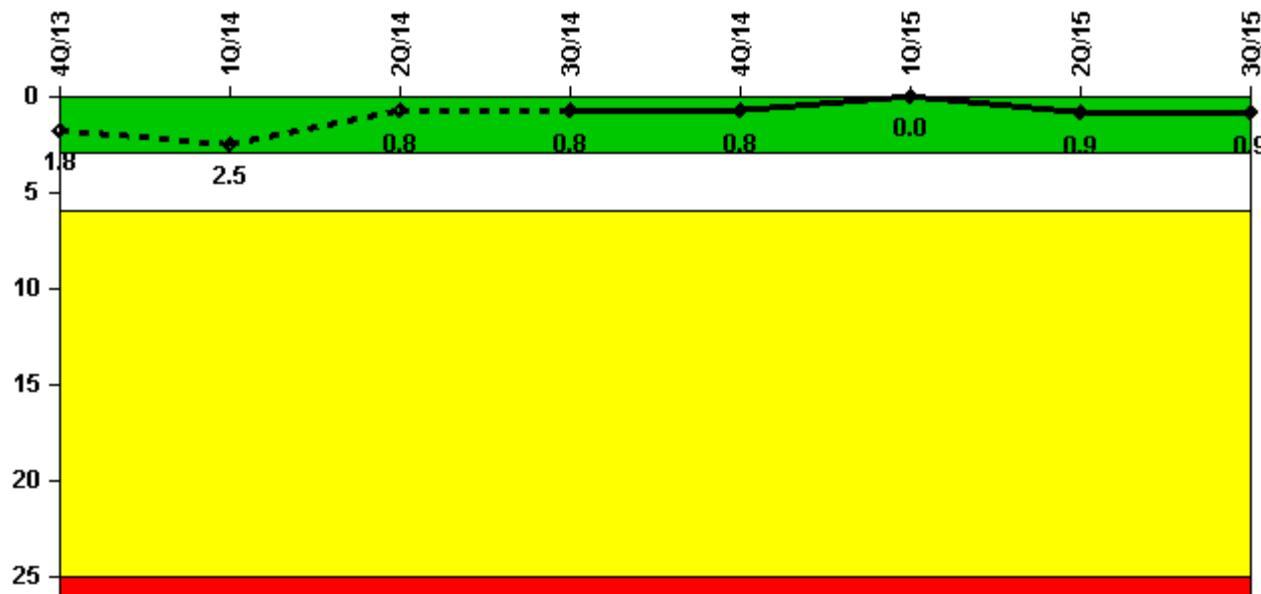
Calvert Cliffs 2

3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



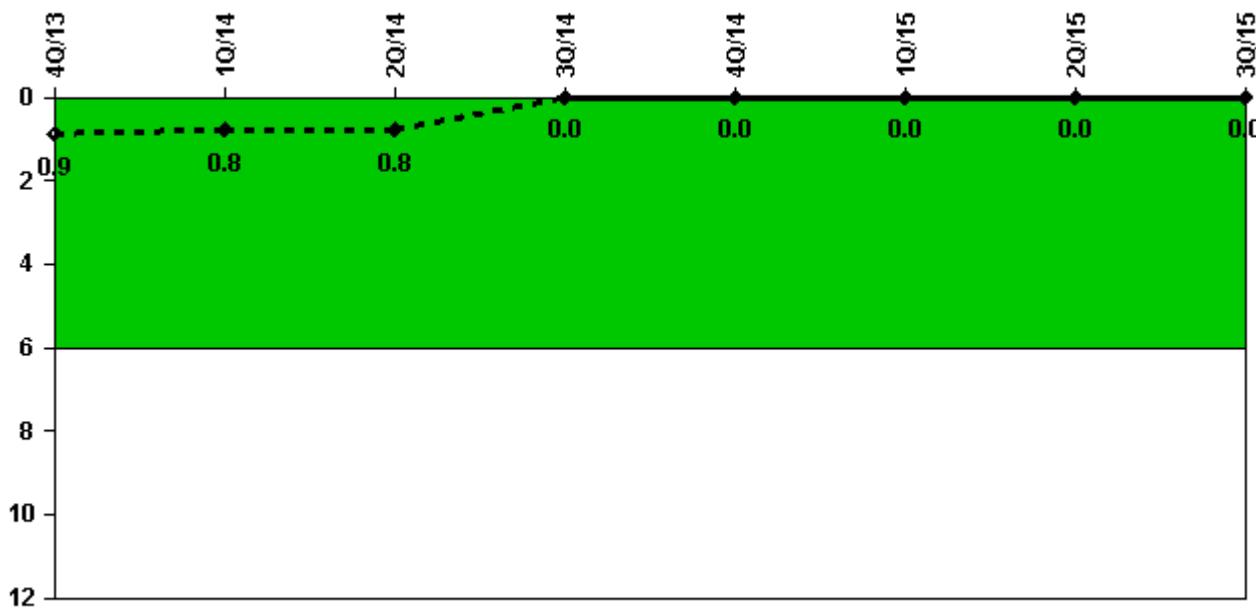
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned scrams	0	1.0	0	0	0	0	1.0	0
Critical hours	2209.0	2079.5	2184.0	2208.0	2209.0	1593.3	2137.8	2208.0
Indicator value	1.8	2.5	0.8	0.8	0.8	0	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



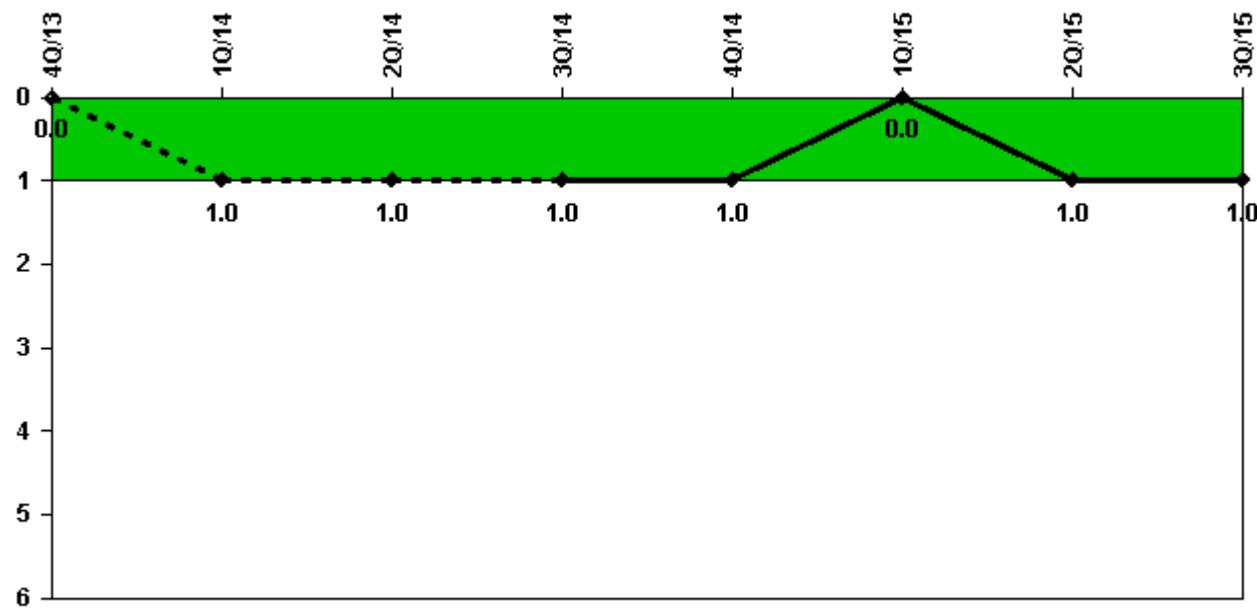
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	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	2209.0	2079.5	2184.0	2208.0	2209.0	1593.3	2137.8	2208.0
Indicator value	0.9	0.8	0.8	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



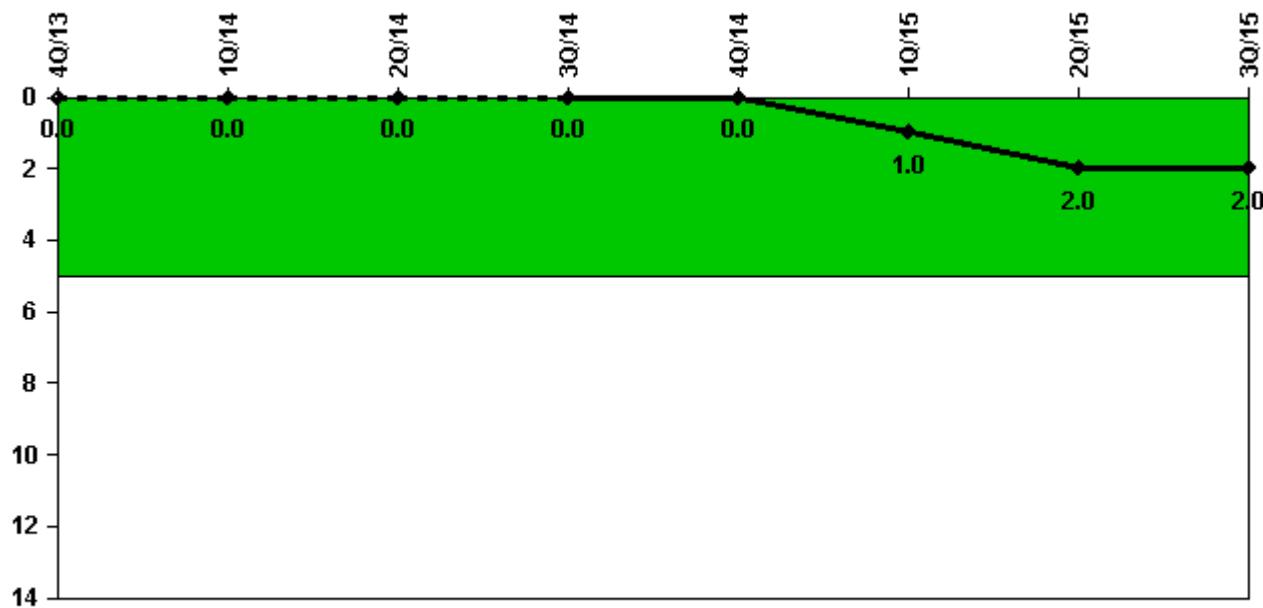
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Scrams with complications	0	1.0	0	0	0	0	1.0	0
Indicator value	0.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

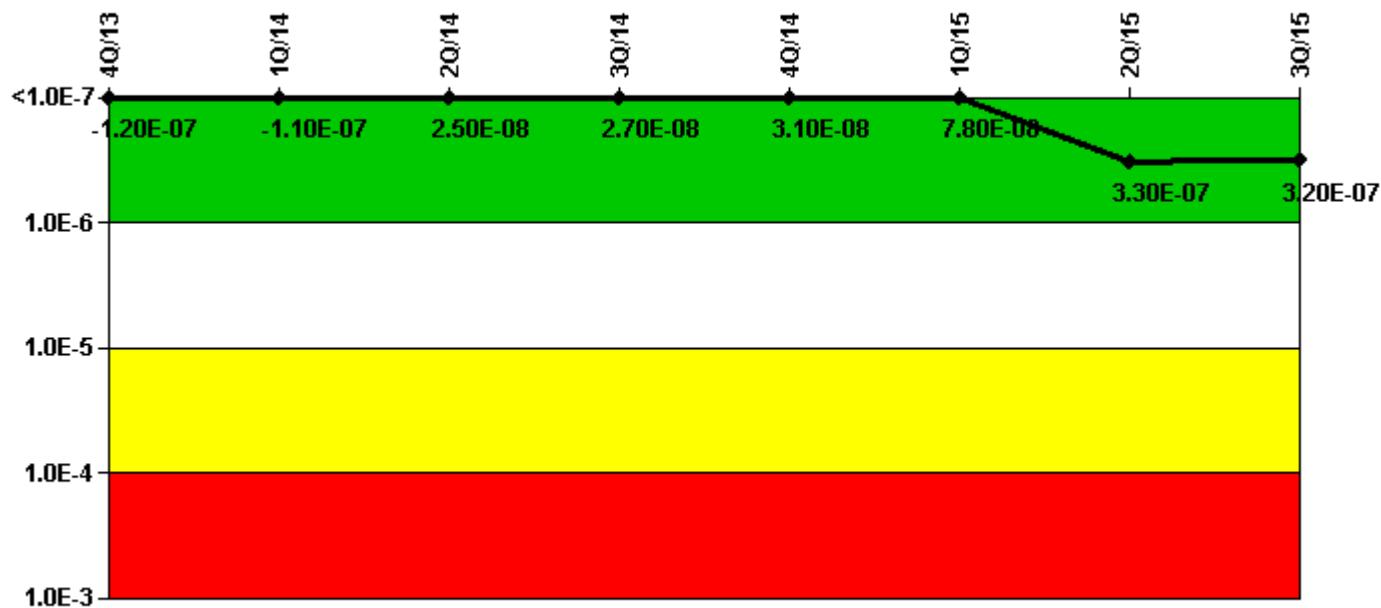
Safety System Functional Failures (PWR)	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Safety System Functional Failures	0	0	0	0	0	1	1	0
Indicator value	0	0	0	0	0	1	2	2

Licensee Comments:

2Q/15: 6/5/2015: LER 318/2015-002-00

1Q/15: 3/22/2015: LER 2015-001-00 05000317/05000318

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

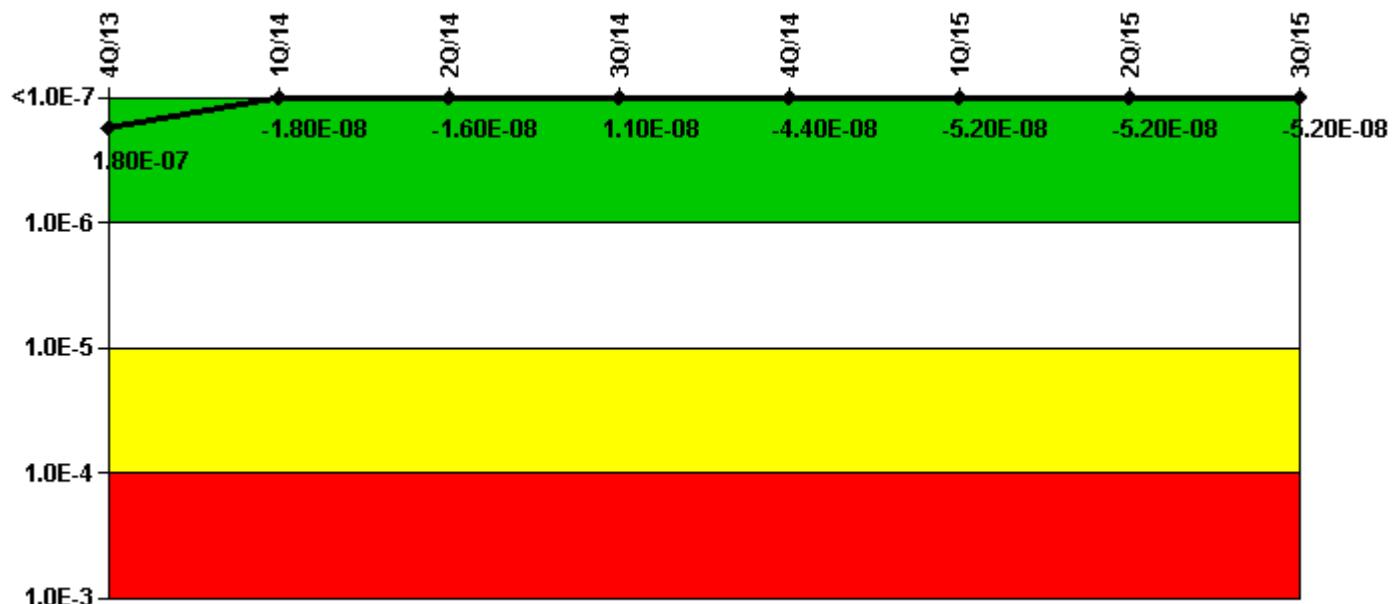
Mitigating Systems Performance Index, Emergency AC Power System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	1.31E-08	2.19E-08	4.11E-08	4.01E-08	-5.25E-08	-9.69E-11	6.56E-10	6.56E-10
URI (Δ CDF)	-1.35E-07	-1.27E-07	-1.62E-08	-1.32E-08	8.35E-08	7.77E-08	3.25E-07	3.23E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-07	-1.10E-07	2.50E-08	2.70E-08	3.10E-08	7.80E-08	3.30E-07	3.20E-07

Licensee Comments:

3Q/14: 2A DG failure on 6/9/14 was determined to be an MSPI failure per AR 02384639.

2Q/14: 2A DG failure on 6/9/14 was determined to be an MSPI failure per AR 02384639.

Mitigating Systems Performance Index, High Pressure Injection System



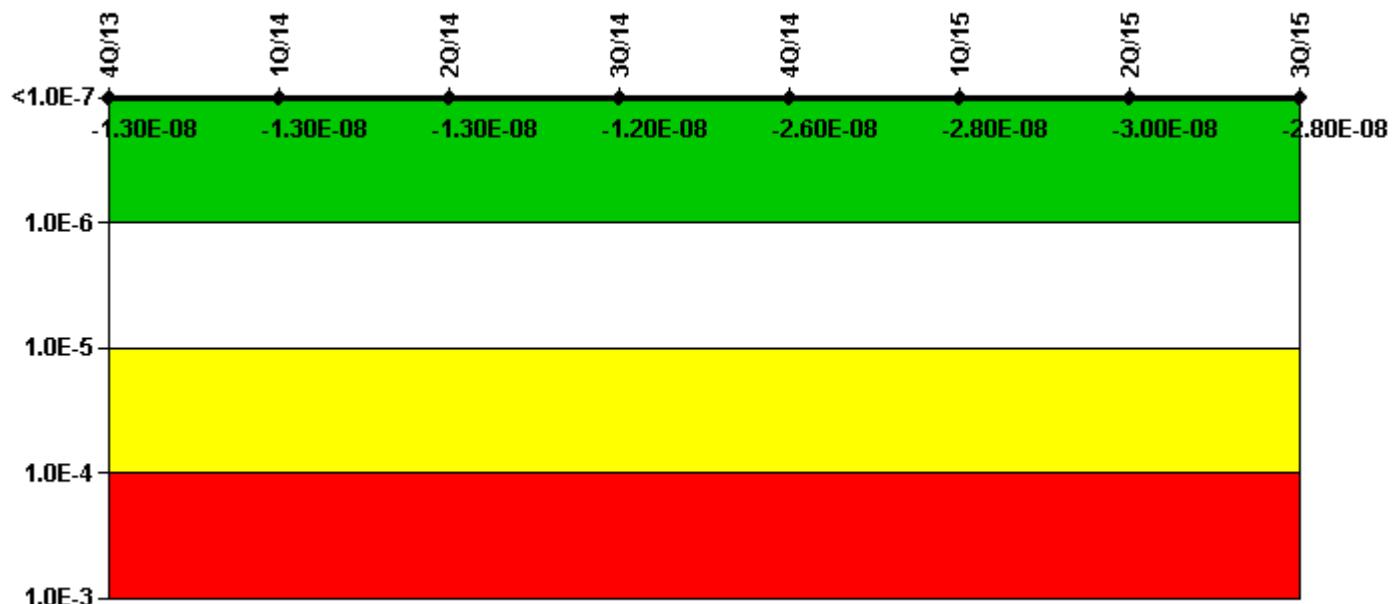
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	9.11E-08	2.81E-08	3.06E-08	5.49E-08	-1.74E-09	-5.89E-09	-5.54E-09	-5.54E-09
URI (Δ CDF)	8.87E-08	-4.60E-08	-4.68E-08	-4.40E-08	-4.22E-08	-4.62E-08	-4.62E-08	-4.64E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.80E-07	-1.80E-08	-1.60E-08	1.10E-08	-4.40E-08	-5.20E-08	-5.20E-08	-5.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



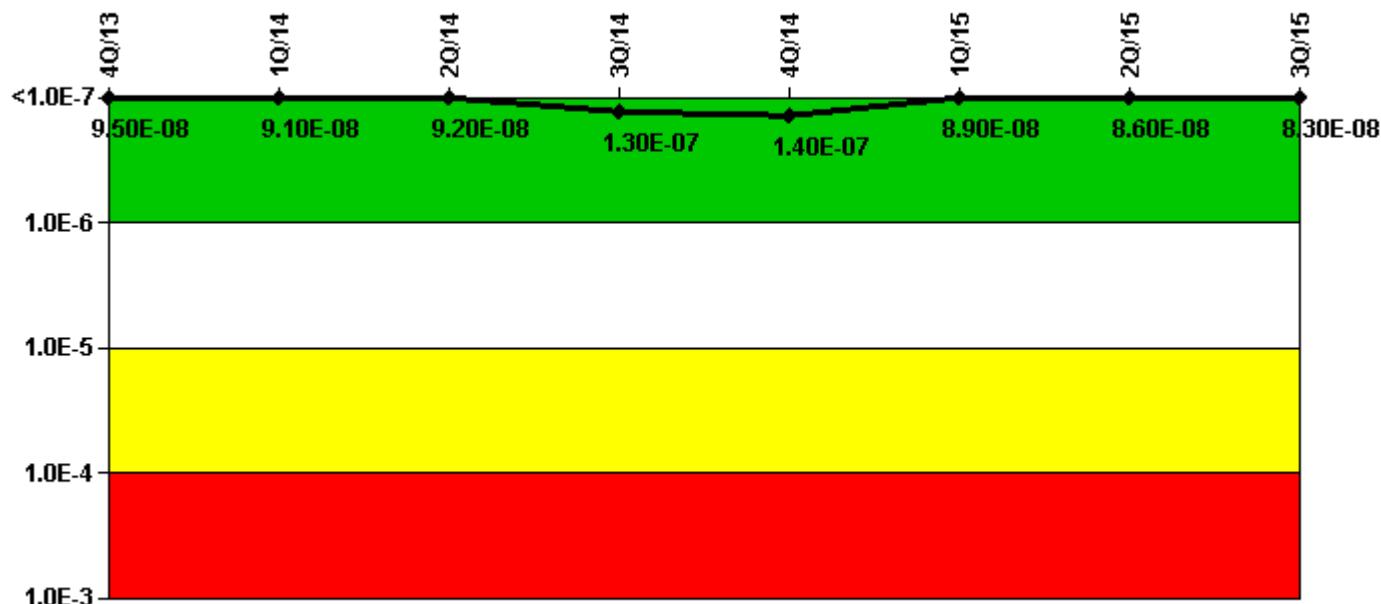
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	-2.04E-09	-2.70E-09	-2.68E-09	-2.73E-09	-6.30E-09	-3.55E-09	-5.15E-09	-3.03E-09
URI (Δ CDF)	-1.08E-08	-1.03E-08	-1.01E-08	-9.54E-09	-1.93E-08	-2.40E-08	-2.51E-08	-2.51E-08
PLE	NO							
Indicator value	-1.30E-08	-1.30E-08	-1.30E-08	-1.20E-08	-2.60E-08	-2.80E-08	-3.00E-08	-2.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



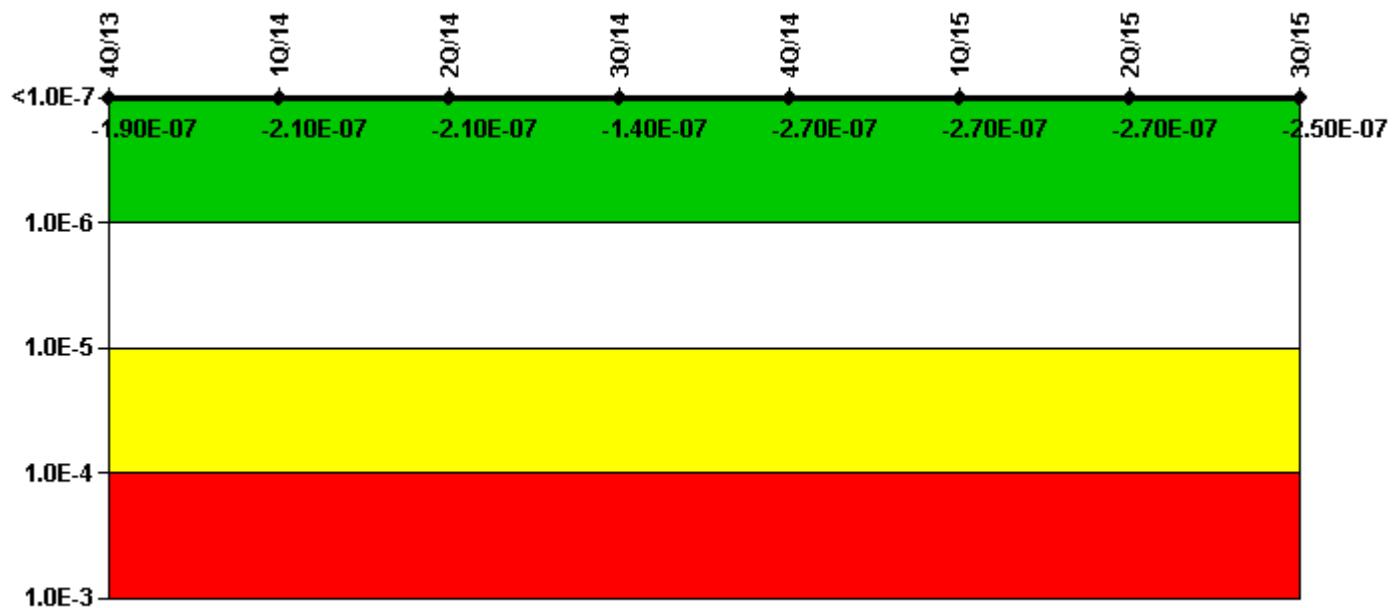
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	9.51E-08	8.99E-08	9.11E-08	1.32E-07	1.37E-07	8.93E-08	8.65E-08	8.34E-08
URI (Δ CDF)	-1.79E-10	9.79E-10	1.10E-09	1.46E-09	1.20E-10	-4.83E-10	-3.33E-10	-4.45E-10
PLE	NO							
Indicator value	9.50E-08	9.10E-08	9.20E-08	1.30E-07	1.40E-07	8.90E-08	8.60E-08	8.30E-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/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	5.06E-08	2.64E-08	2.64E-08	9.70E-08	-4.84E-08	-4.91E-08	-4.25E-08	-2.91E-08
URI (Δ CDF)	-2.38E-07	-2.38E-07	-2.38E-07	-2.37E-07	-2.24E-07	-2.24E-07	-2.24E-07	-2.23E-07
PLE	NO							
Indicator value	-1.90E-07	-2.10E-07	-2.10E-07	-1.40E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.50E-07

Licensee Comments:

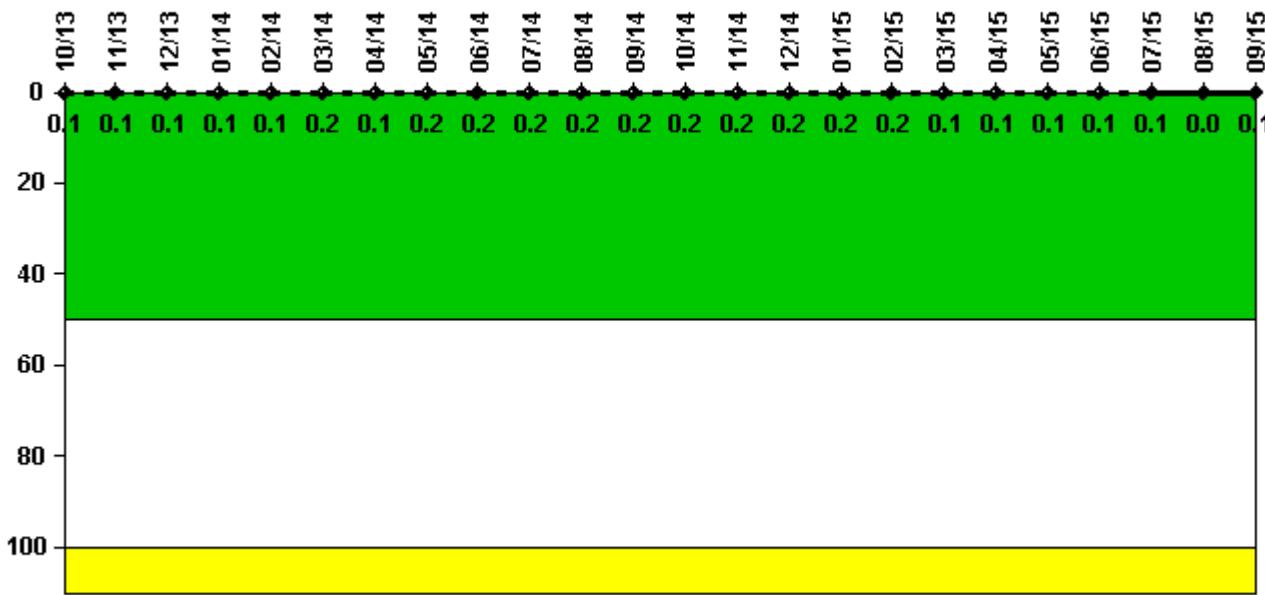
3Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

2Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

1Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

4Q/14: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

Reactor Coolant System Activity



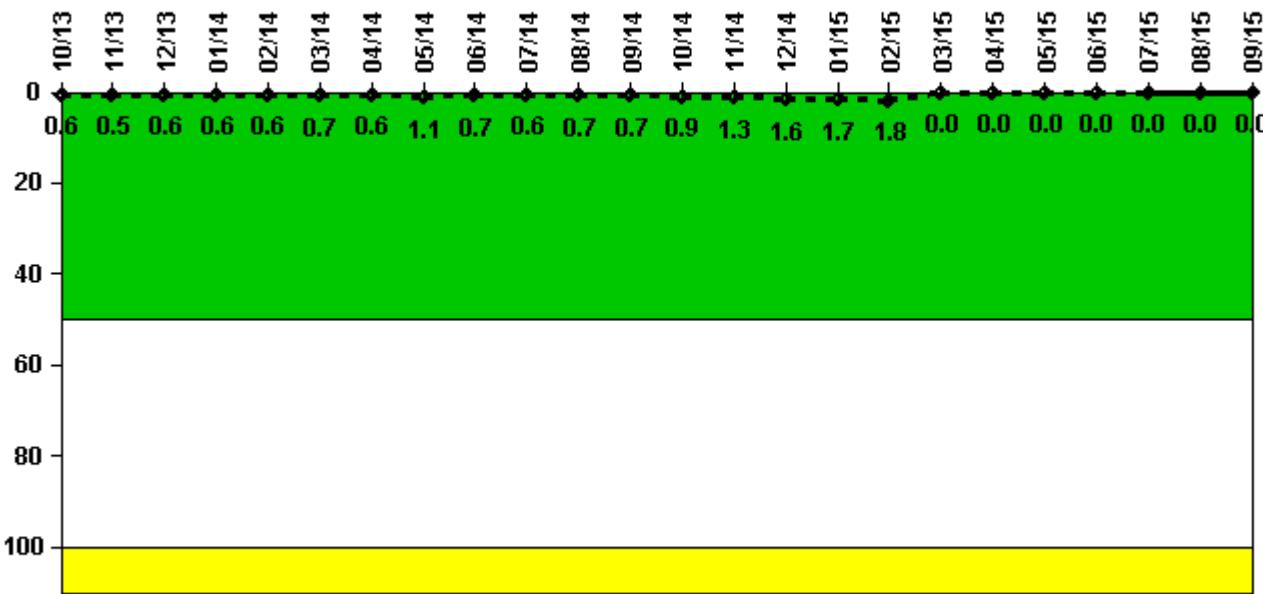
Thresholds: White > 50.0 Yellow > 100.0

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	0.000725	0.000610	0.000586	0.000682	0.000681	0.000758	0.000723	0.000765	0.000842	0.000863	0.001000	0.001200
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2
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	0.001120	0.000807	0.000806	0.000903	0.001170	0.000279	0.000511	0.000288	0.000310	0.000301	0.000249	0.000332
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0	0.1

Licensee Comments: none

Reactor Coolant System Leakage



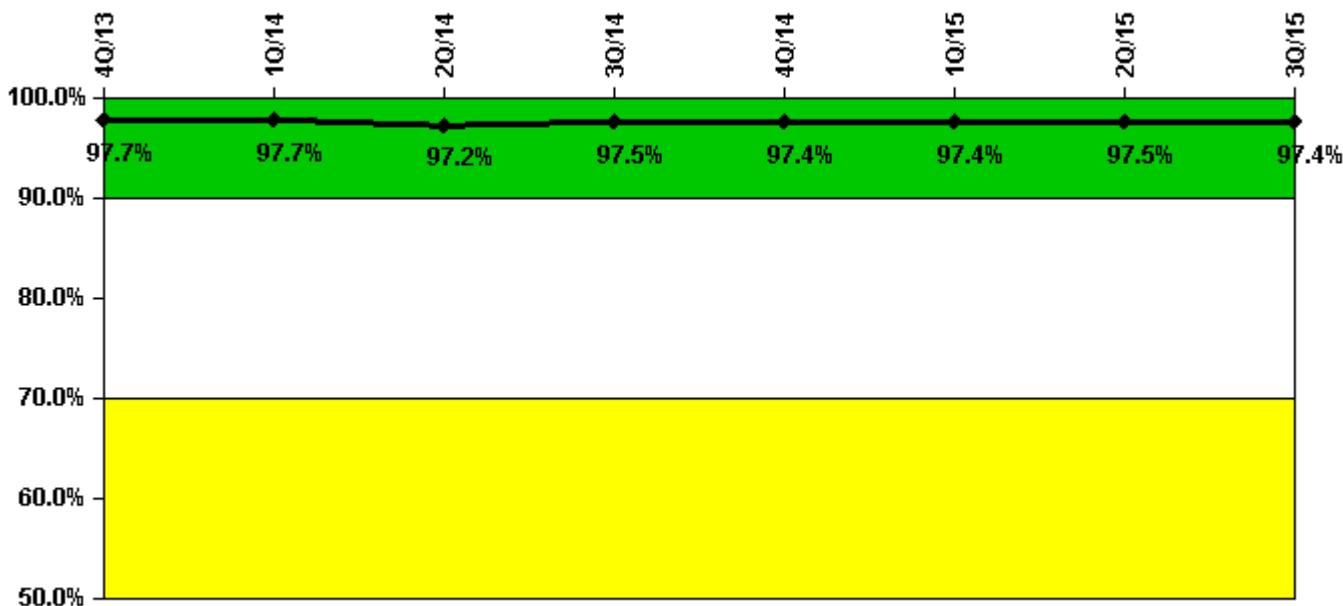
Thresholds: White > 50.0 Yellow > 100.0

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	0.060	0.050	0.060	0.060	0.060	0.070	0.060	0.110	0.070	0.060	0.070	0.070
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	0.6	0.5	0.6	0.6	0.6	0.7	0.6	1.1	0.7	0.6	0.7	0.7
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	0.090	0.130	0.160	0.170	0.180	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	0.9	1.3	1.6	1.7	1.8	0						

Licensee Comments: none

Drill/Exercise Performance



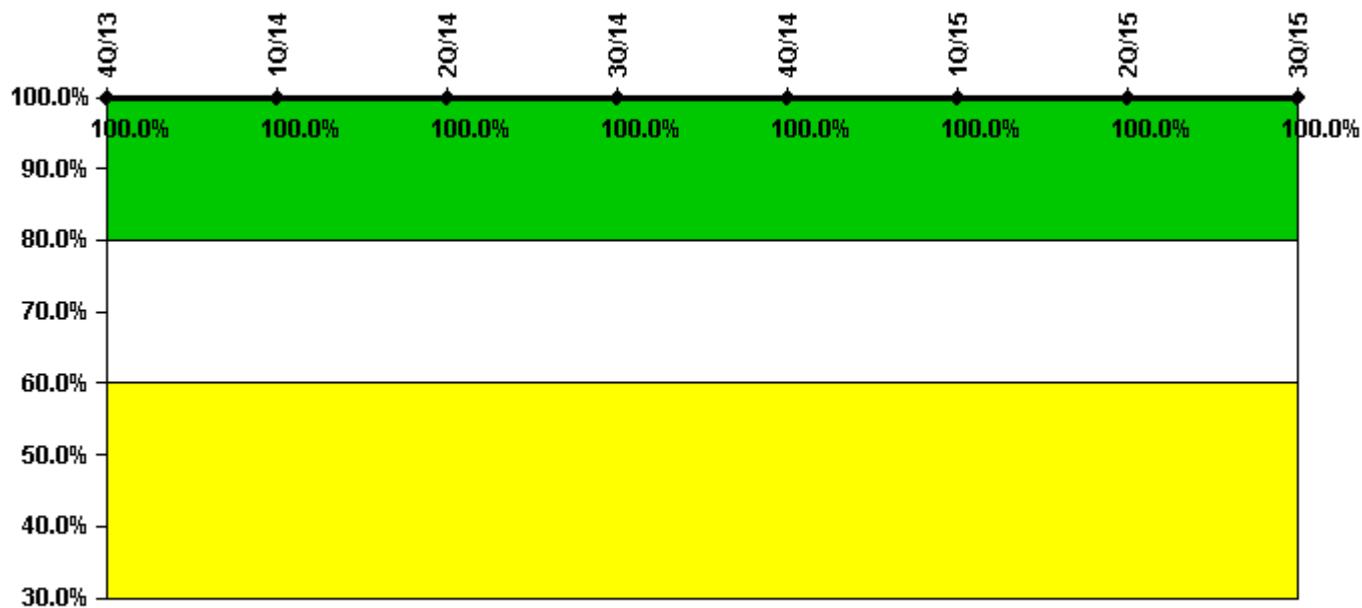
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful opportunities	61.0	4.0	48.0	51.0	47.0	9.0	75.0	44.0
Total opportunities	64.0	4.0	50.0	52.0	48.0	9.0	76.0	45.0
Indicator value	97.7%	97.7%	97.2%	97.5%	97.4%	97.4%	97.5%	97.4%

Licensee Comments: none

ERO Drill Participation



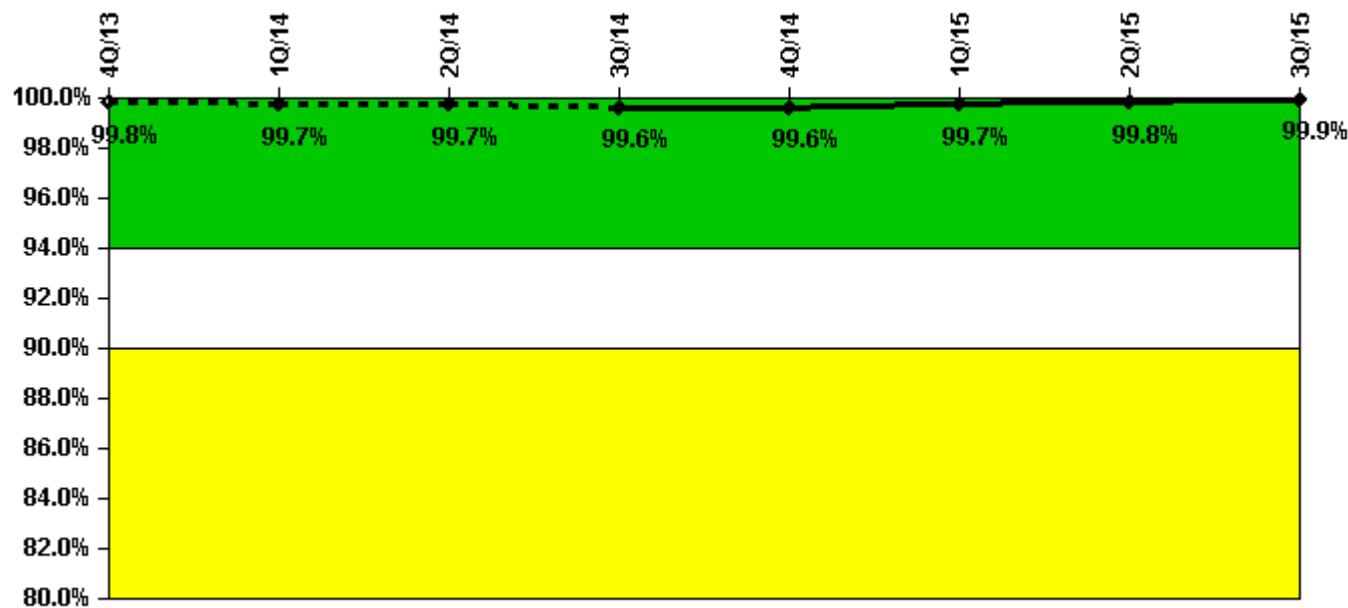
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Participating Key personnel	86.0	50.0	49.0	53.0	55.0	49.0	46.0	46.0
Total Key personnel	86.0	50.0	49.0	53.0	55.0	49.0	46.0	46.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



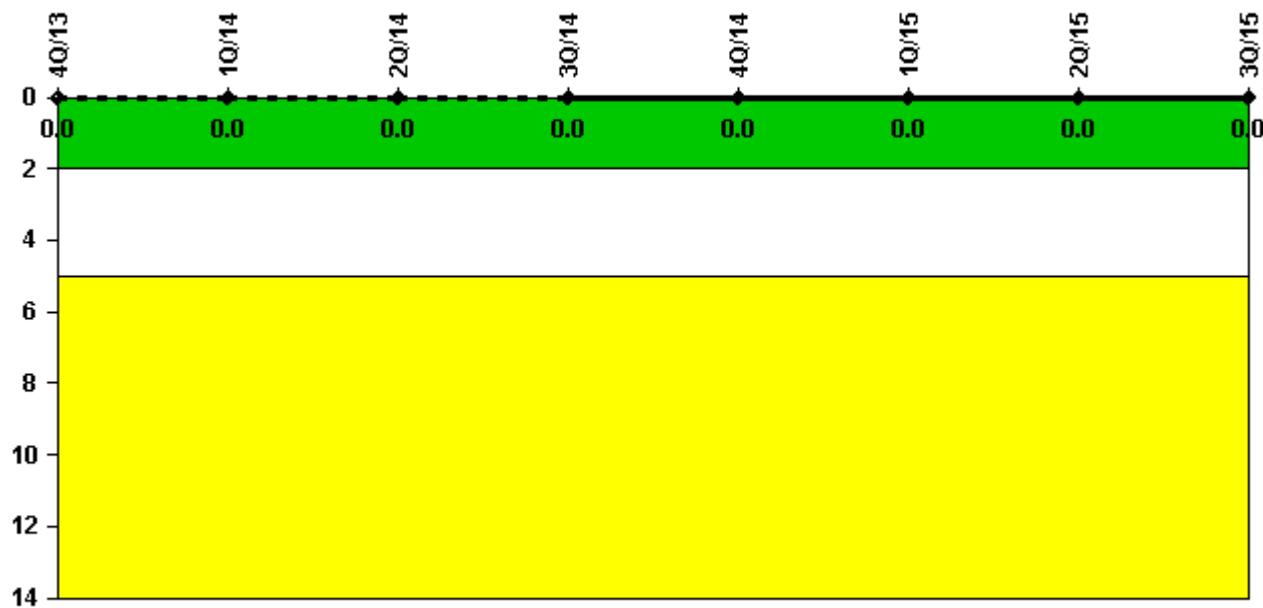
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful siren-tests	947	943	946	945	947	947	948	949
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.8%	99.7%	99.7%	99.6%	99.6%	99.7%	99.8%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



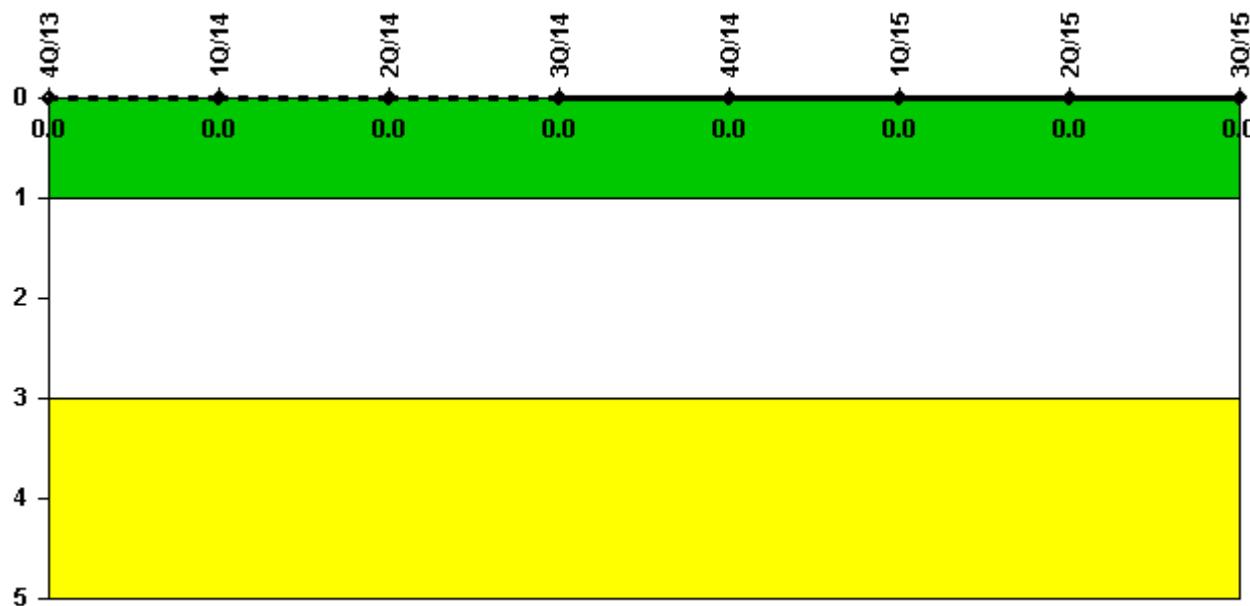
Thresholds: White > 2.0 Yellow > 5.0

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

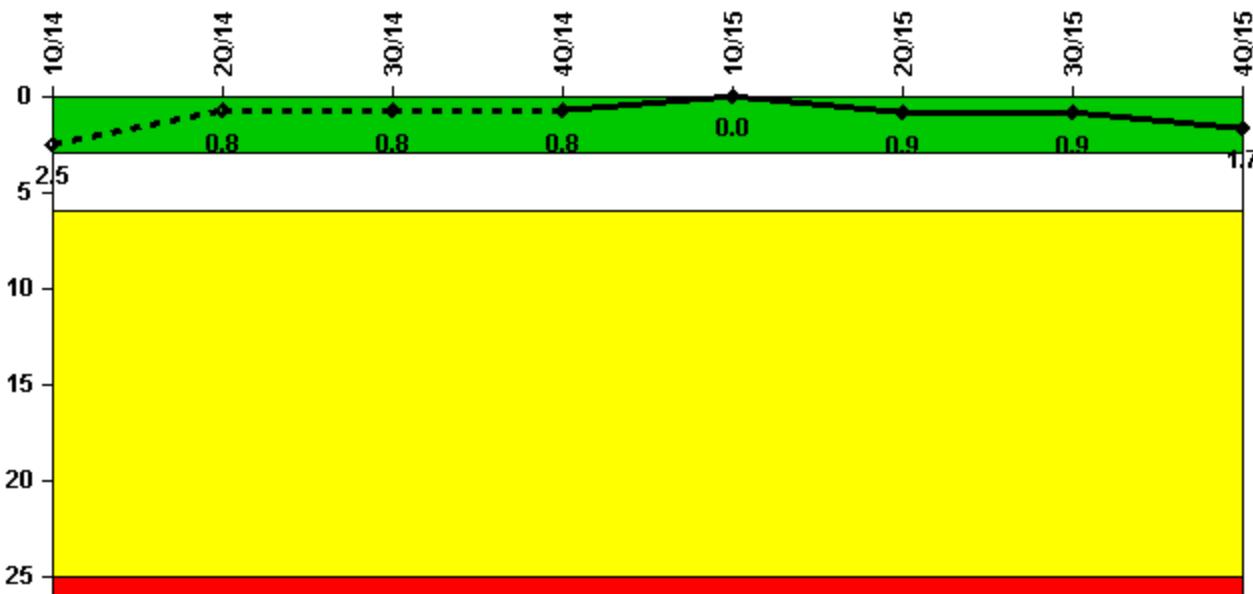
Calvert Cliffs 2

4Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



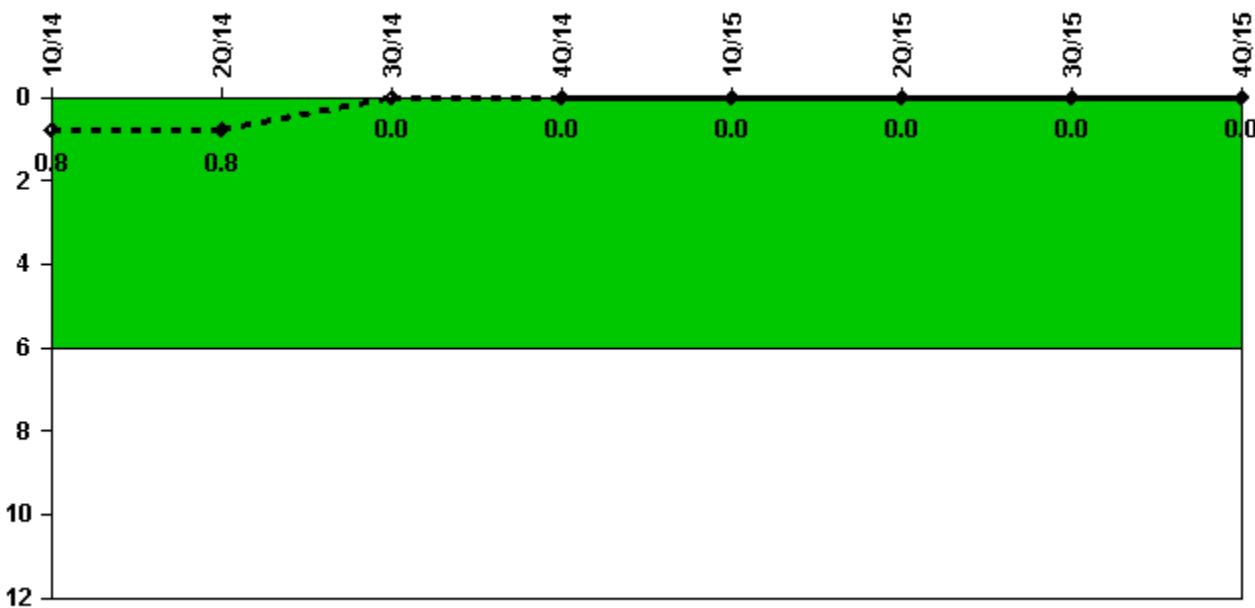
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	0	1.0	0	1.0
Critical hours	2079.5	2184.0	2208.0	2209.0	1593.3	2137.8	2208.0	2095.1
Indicator value	2.5	0.8	0.8	0.8	0	0.9	0.9	1.7

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



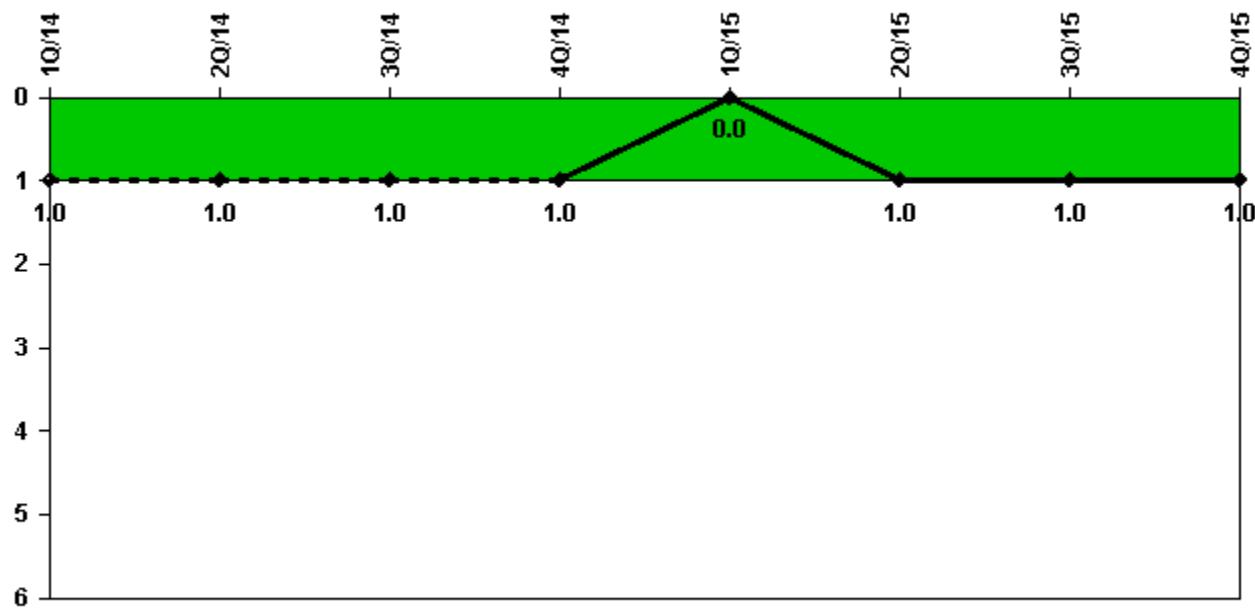
Thresholds: White > 6.0

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	2079.5	2184.0	2208.0	2209.0	1593.3	2137.8	2208.0	2095.1
Indicator value	0.8	0.8	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



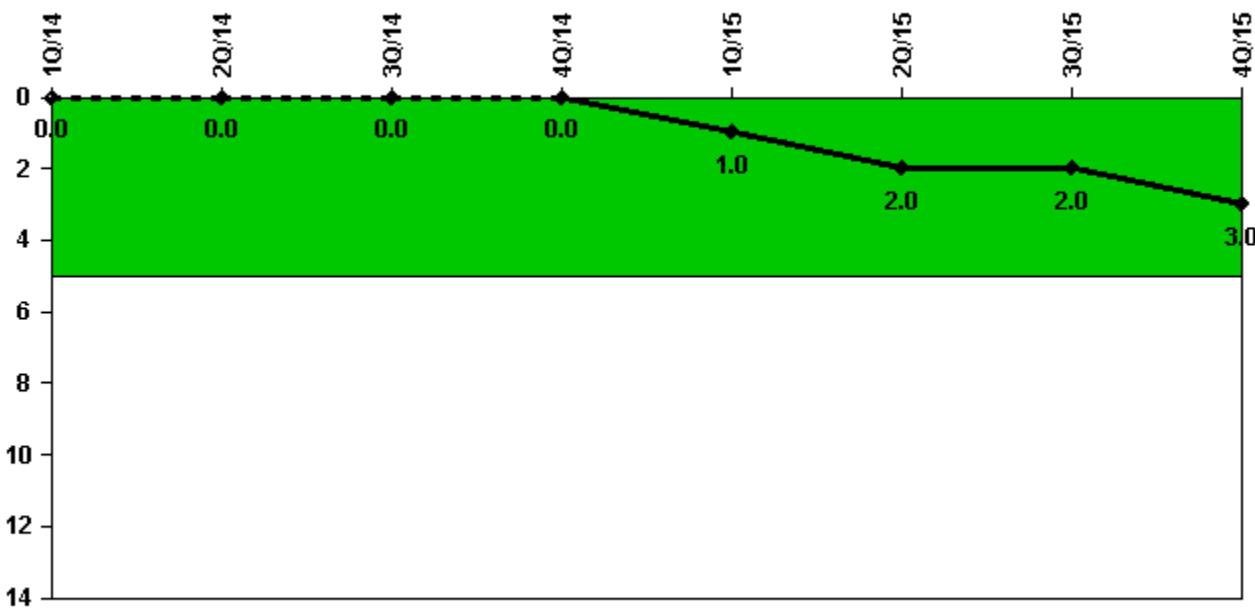
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Scrams with complications	1.0	0	0	0	0	1.0	0	0
Indicator value	1.0	1.0	1.0	1.0	0.0	1.0	1.0	1.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

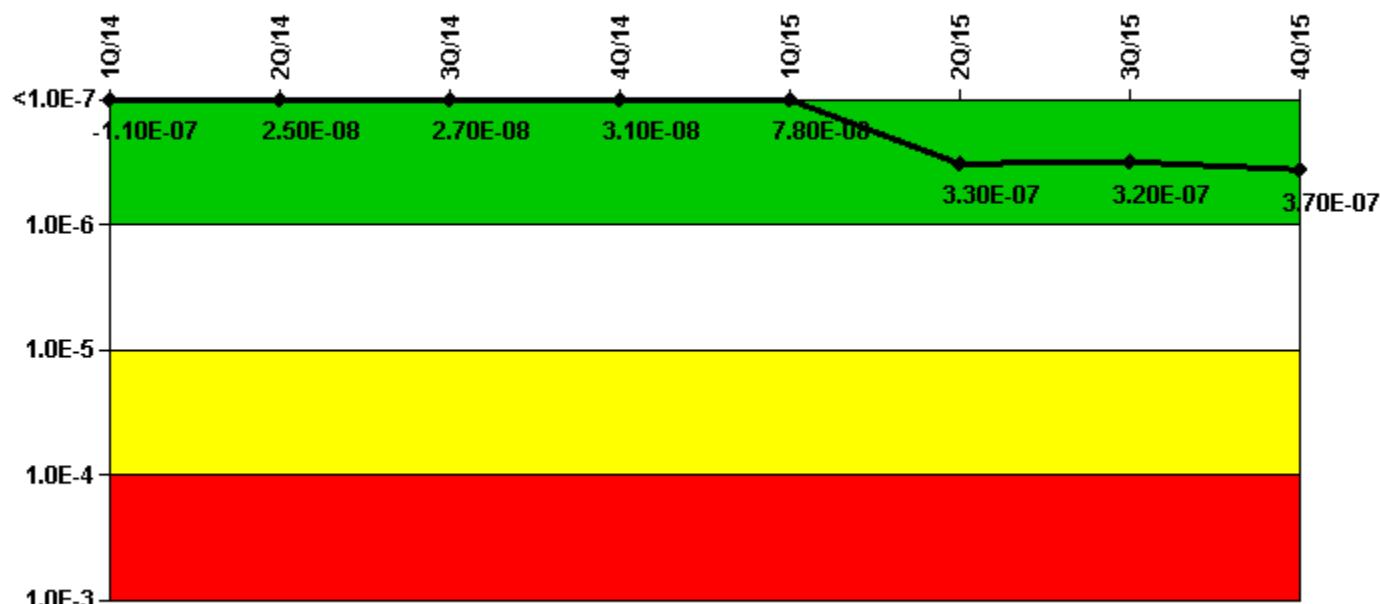
Safety System Functional Failures (PWR)	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Safety System Functional Failures	0	0	0	0	1	1	0	1
Indicator value	0	0	0	0	1	2	2	3

Licensee Comments:

2Q/15: 6/5/2015: LER 318/2015-002-00

1Q/15: 3/22/2015: LER 2015-001-00 05000317/05000318

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

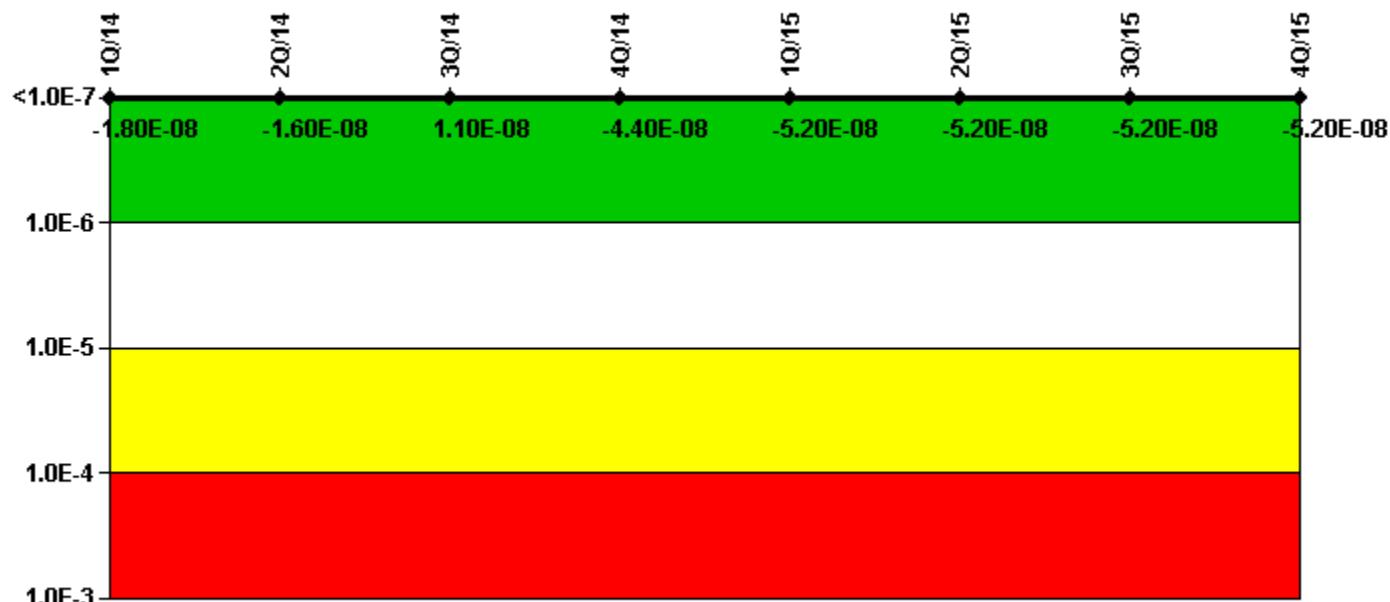
Mitigating Systems Performance Index, Emergency AC Power System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	2.19E-08	4.11E-08	4.01E-08	-5.25E-08	-9.69E-11	6.56E-10	6.56E-10	5.93E-08
URI (Δ CDF)	-1.27E-07	-1.62E-08	-1.32E-08	8.35E-08	7.77E-08	3.25E-07	3.23E-07	3.14E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-07	2.50E-08	2.70E-08	3.10E-08	7.80E-08	3.30E-07	3.20E-07	3.70E-07

Licensee Comments:

3Q/14: 2A DG failure on 6/9/14 was determined to be an MSPI failure per AR 02384639.

2Q/14: 2A DG failure on 6/9/14 was determined to be an MSPI failure per AR 02384639.

Mitigating Systems Performance Index, High Pressure Injection System



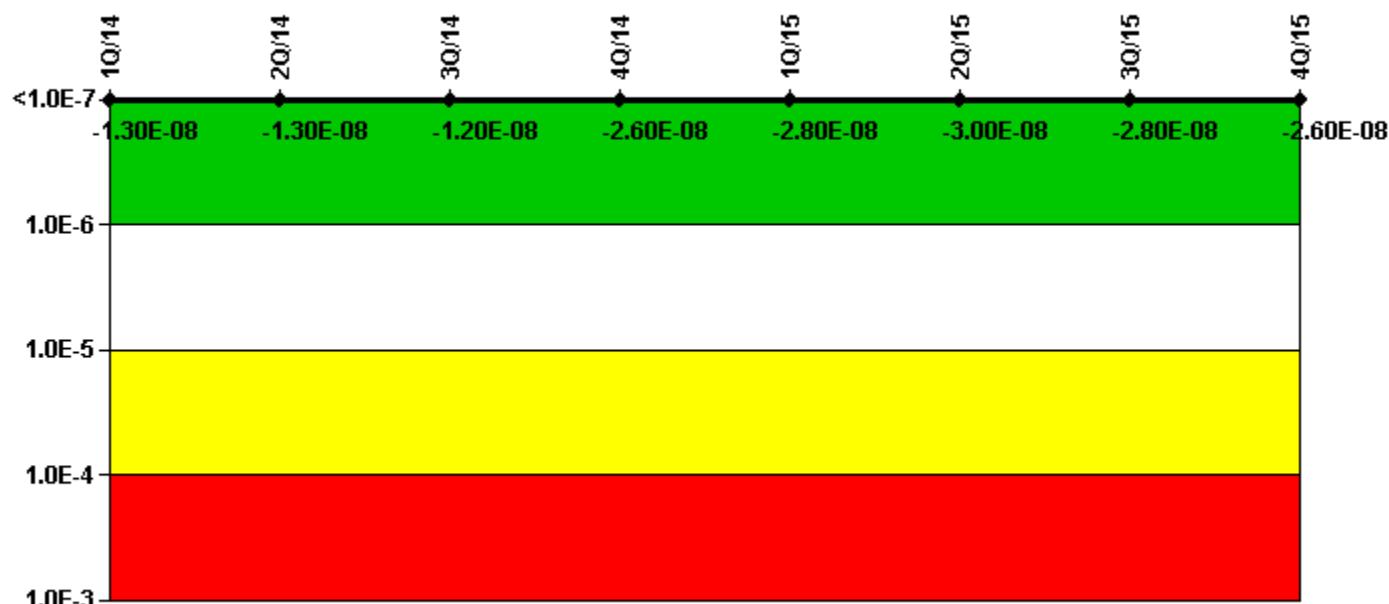
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	2.81E-08	3.06E-08	5.49E-08	-1.74E-09	-5.89E-09	-5.54E-09	-5.54E-09	-6.18E-09
URI (Δ CDF)	-4.60E-08	-4.68E-08	-4.40E-08	-4.22E-08	-4.62E-08	-4.62E-08	-4.64E-08	-4.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-1.60E-08	1.10E-08	-4.40E-08	-5.20E-08	-5.20E-08	-5.20E-08	-5.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



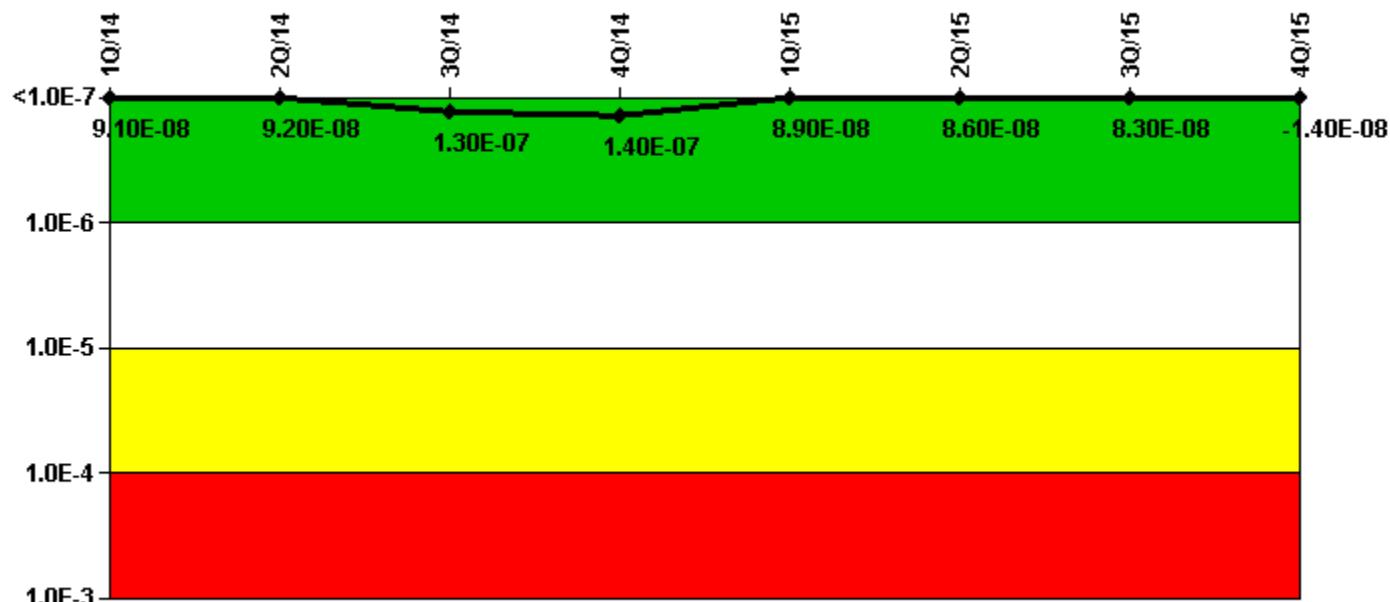
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	-2.70E-09	-2.68E-09	-2.73E-09	-6.30E-09	-3.55E-09	-5.15E-09	-3.03E-09	-1.02E-09
URI (Δ CDF)	-1.03E-08	-1.01E-08	-9.54E-09	-1.93E-08	-2.40E-08	-2.51E-08	-2.51E-08	-2.51E-08
PLE	NO							
Indicator value	-1.30E-08	-1.30E-08	-1.20E-08	-2.60E-08	-2.80E-08	-3.00E-08	-2.80E-08	-2.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



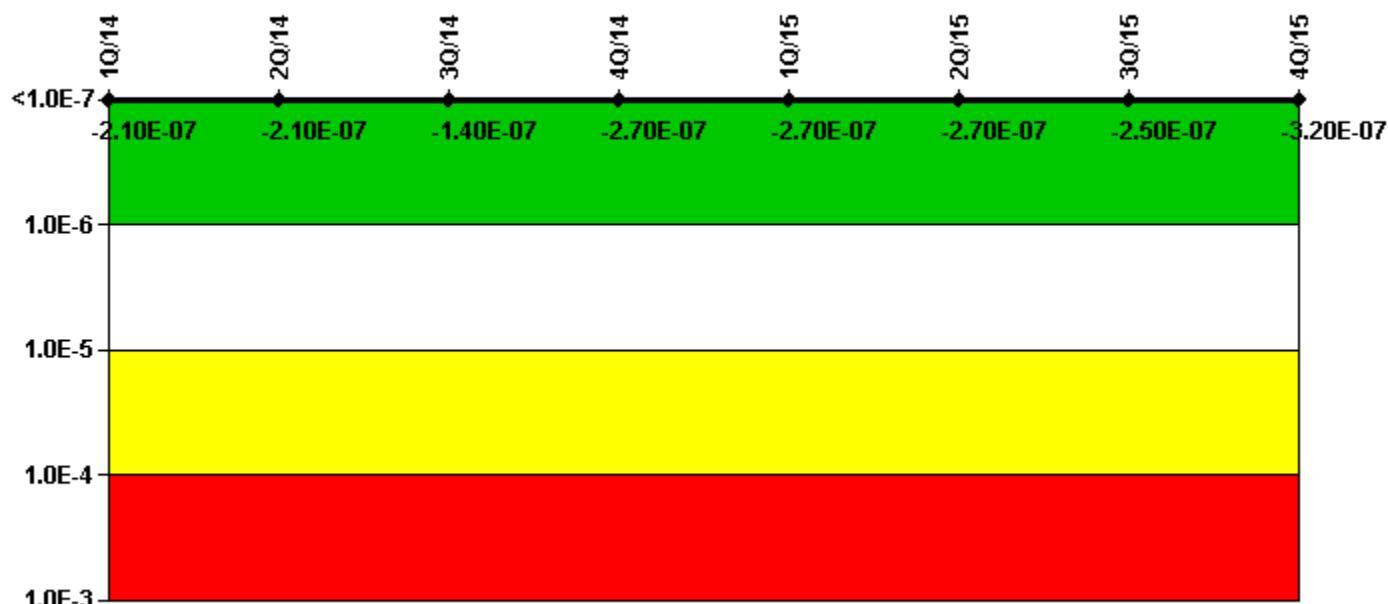
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	8.99E-08	9.11E-08	1.32E-07	1.37E-07	8.93E-08	8.65E-08	8.34E-08	-8.96E-09
URI (Δ CDF)	9.79E-10	1.10E-09	1.46E-09	1.20E-10	-4.83E-10	-3.33E-10	-4.45E-10	-4.65E-09
PLE	NO							
Indicator value	9.10E-08	9.20E-08	1.30E-07	1.40E-07	8.90E-08	8.60E-08	8.30E-08	-1.40E-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/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	2.64E-08	2.64E-08	9.70E-08	-4.84E-08	-4.91E-08	-4.25E-08	-2.91E-08	-1.00E-07
URI (Δ CDF)	-2.38E-07	-2.38E-07	-2.37E-07	-2.24E-07	-2.24E-07	-2.24E-07	-2.23E-07	-2.23E-07
PLE	NO							
Indicator value	-2.10E-07	-2.10E-07	-1.40E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.50E-07	-3.20E-07

Licensee Comments:

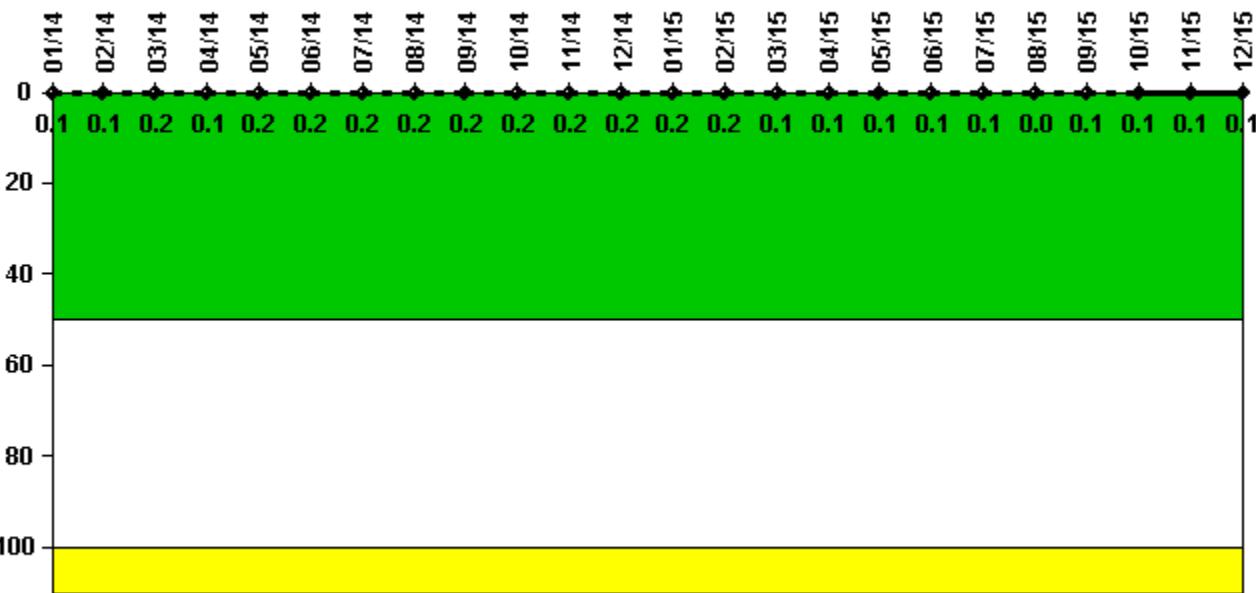
3Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

2Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

1Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

4Q/14: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

Reactor Coolant System Activity



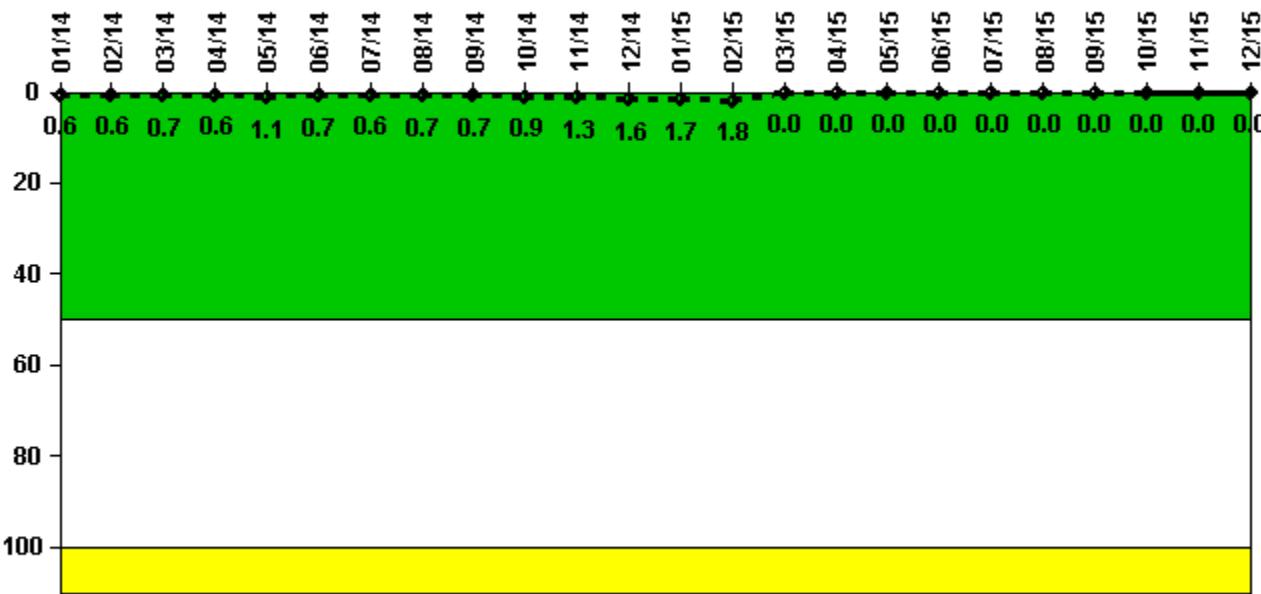
Thresholds: White > 50.0 Yellow > 100.0

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	0.000682	0.000681	0.000758	0.000723	0.000765	0.000842	0.000863	0.001000	0.001200	0.001120	0.000807	0.000806
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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	0.000903	0.001170	0.000279	0.000511	0.000288	0.000310	0.000301	0.000249	0.000332	0.000394	0.000406	0.000431
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



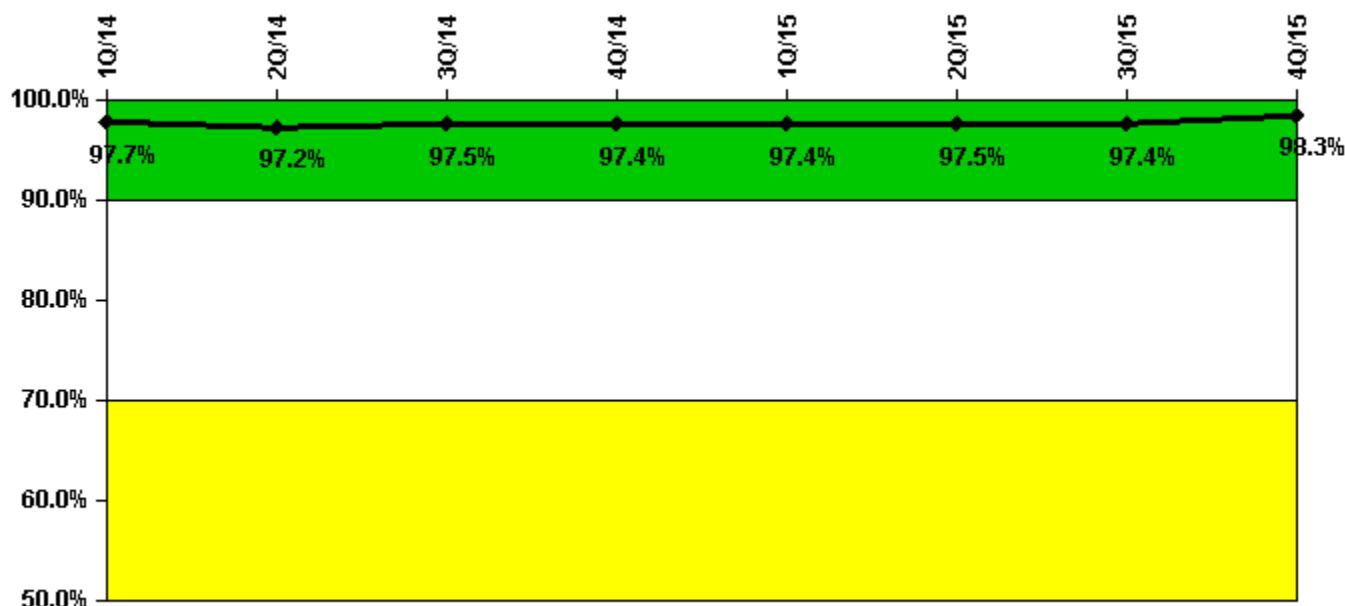
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.060	0.060	0.070	0.060	0.110	0.070	0.060	0.070	0.070	0.090	0.130	0.160
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	0.6	0.6	0.7	0.6	1.1	0.7	0.6	0.7	0.7	0.9	1.3	1.6
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	0.170	0.180	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	1.7	1.8	0									

Licensee Comments: none

Drill/Exercise Performance



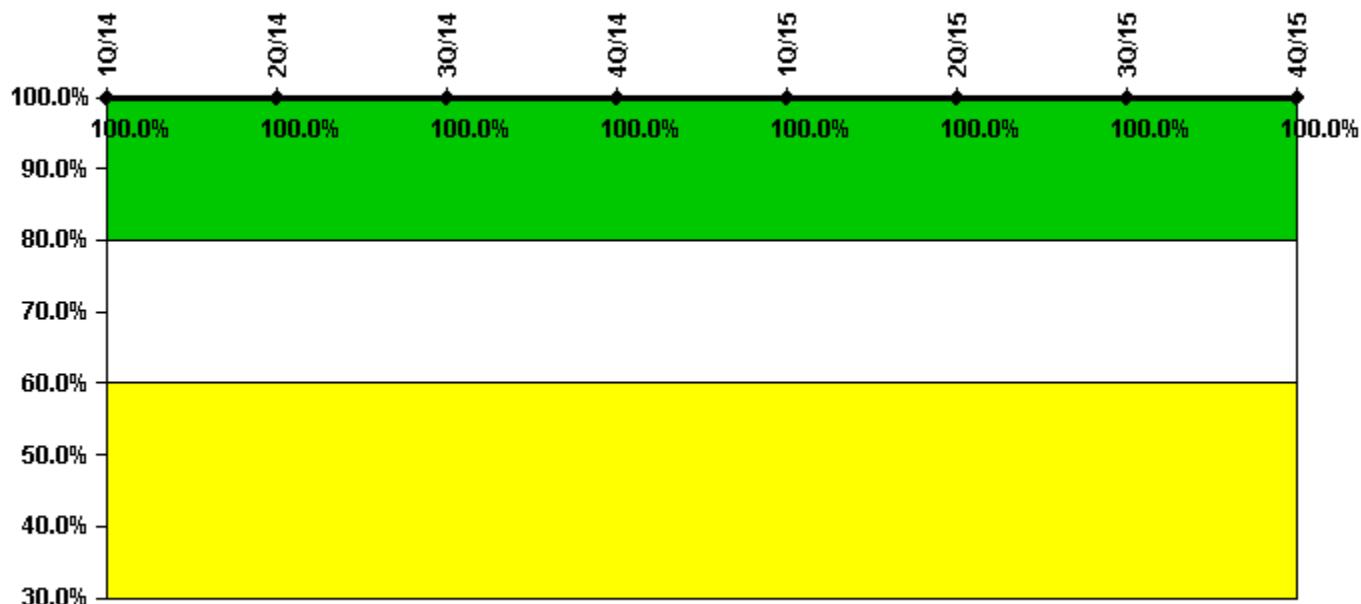
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful opportunities	4.0	48.0	51.0	47.0	9.0	75.0	44.0	60.0
Total opportunities	4.0	50.0	52.0	48.0	9.0	76.0	45.0	60.0
Indicator value	97.7%	97.2%	97.5%	97.4%	97.4%	97.5%	97.4%	98.3%

Licensee Comments: none

ERO Drill Participation



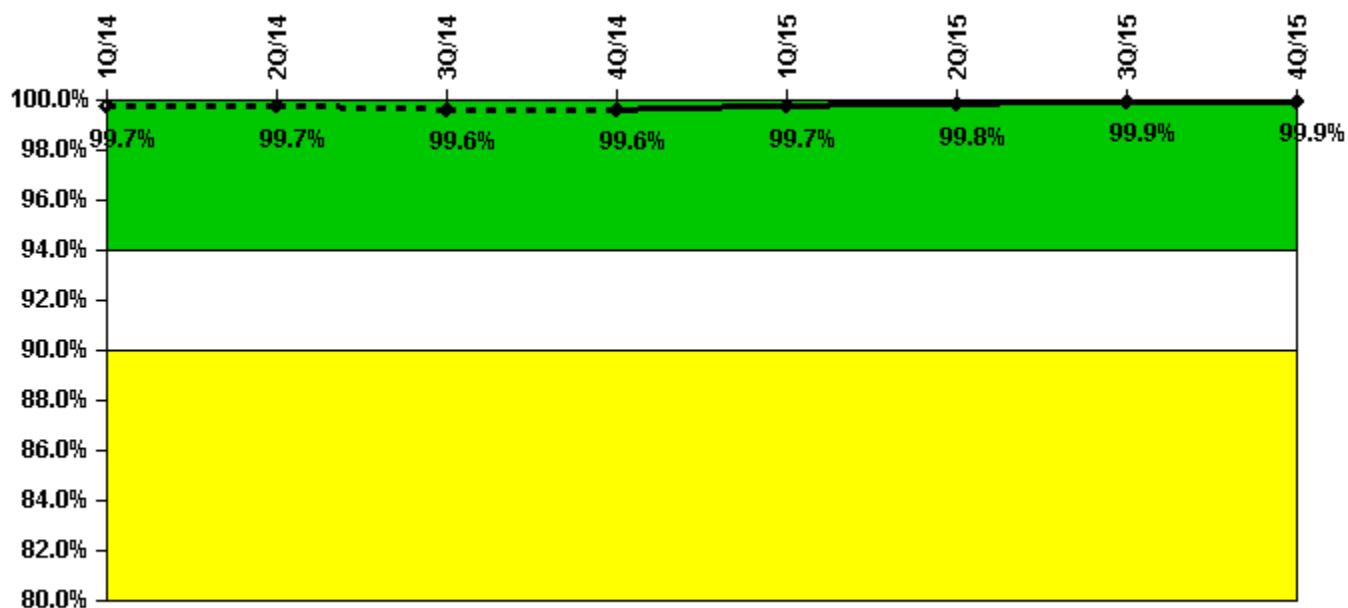
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Participating Key personnel	50.0	49.0	53.0	55.0	49.0	46.0	46.0	46.0
Total Key personnel	50.0	49.0	53.0	55.0	49.0	46.0	46.0	46.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



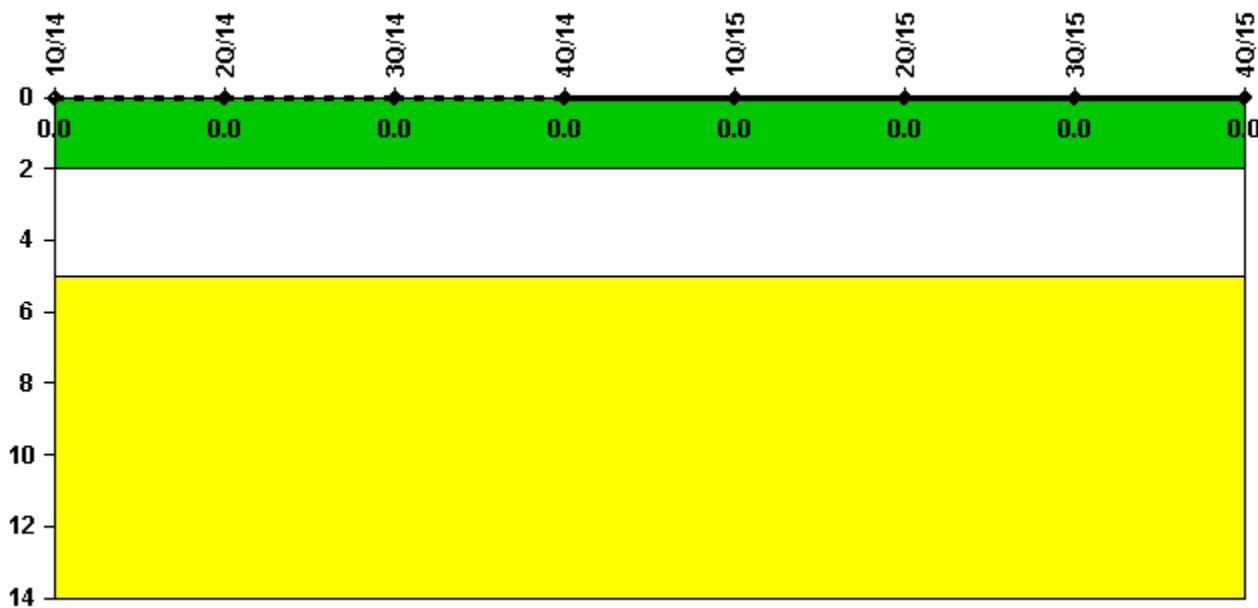
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful siren-tests	943	946	945	947	947	948	949	948
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.7%	99.7%	99.6%	99.6%	99.7%	99.8%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



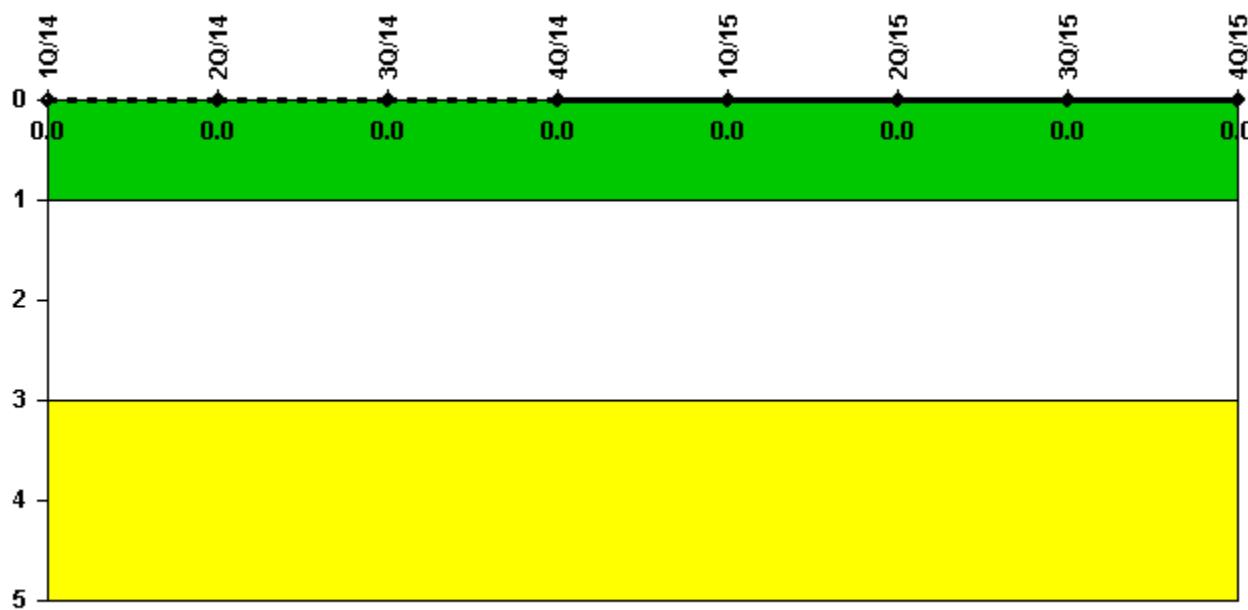
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

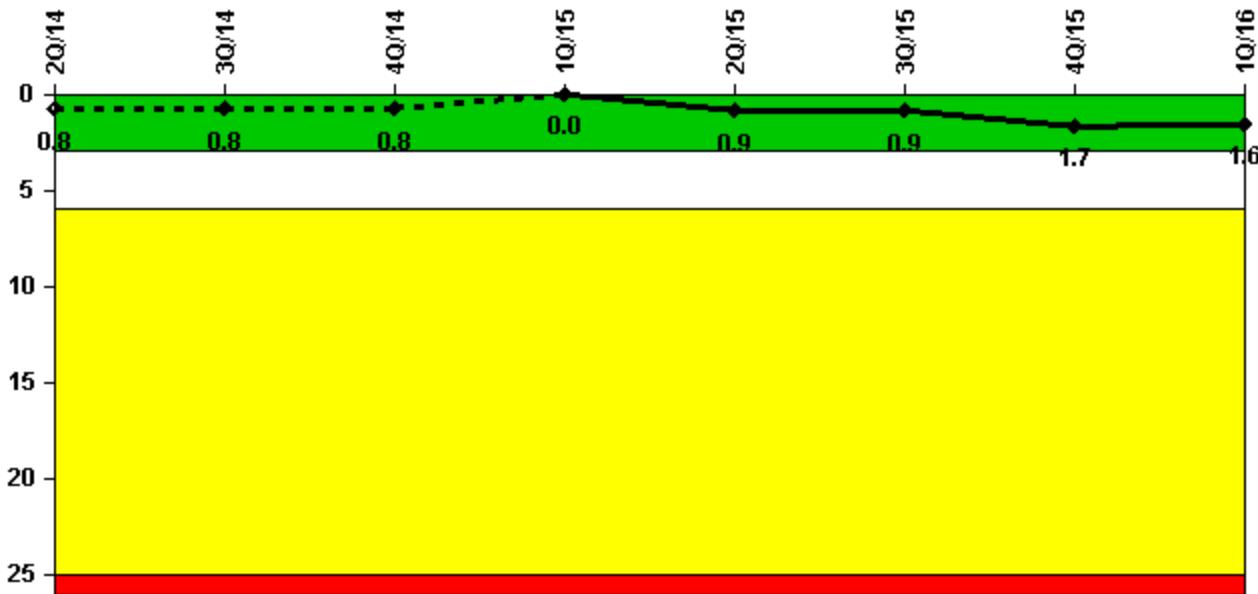
Calvert Cliffs 2

1Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



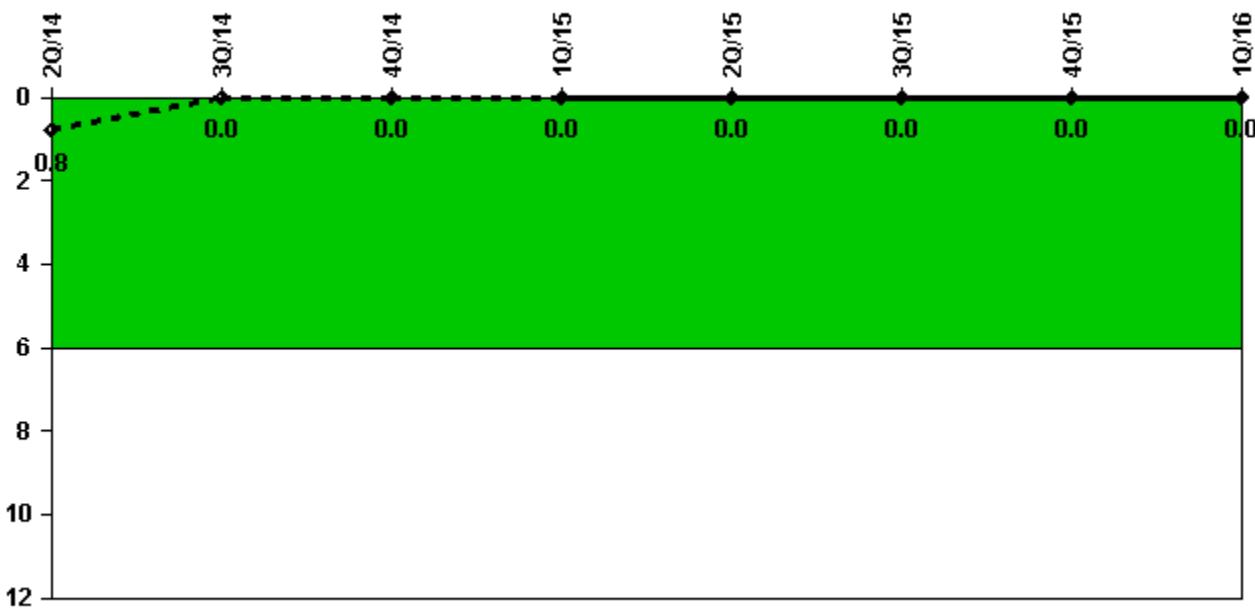
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	1.0	0	1.0	0
Critical hours	2184.0	2208.0	2209.0	1593.3	2137.8	2208.0	2095.1	2183.0
Indicator value	0.8	0.8	0.8	0	0.9	0.9	1.7	1.6

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



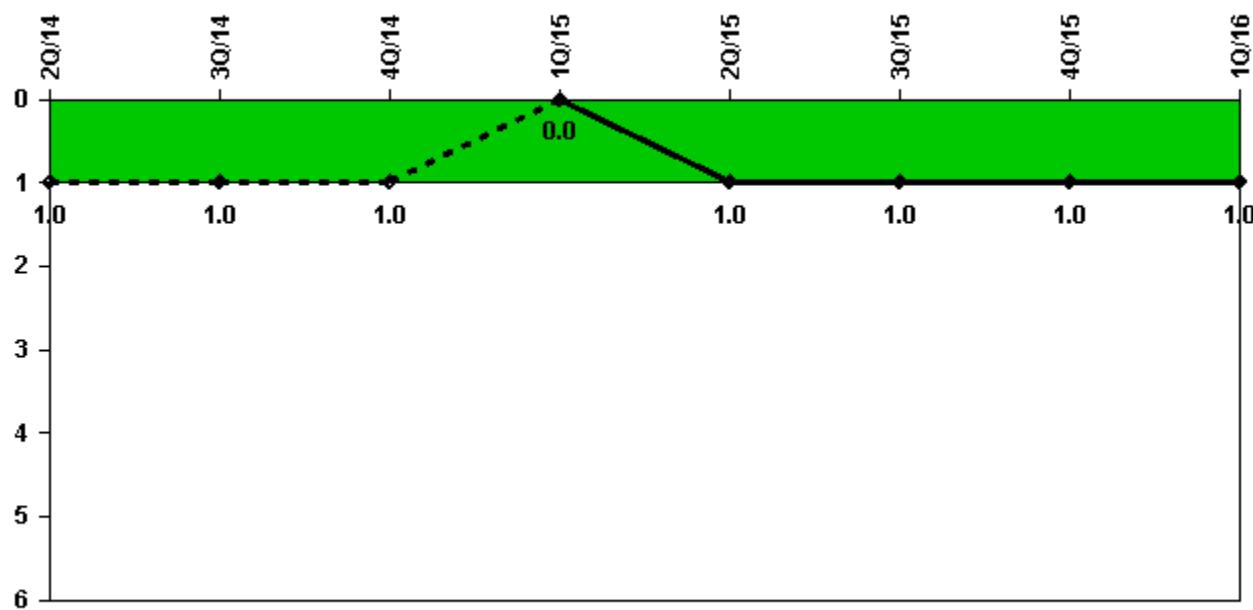
Thresholds: White > 6.0

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	2209.0	1593.3	2137.8	2208.0	2095.1	2183.0
Indicator value	0.8	0						

Licensee Comments: none

Unplanned Scrams with Complications



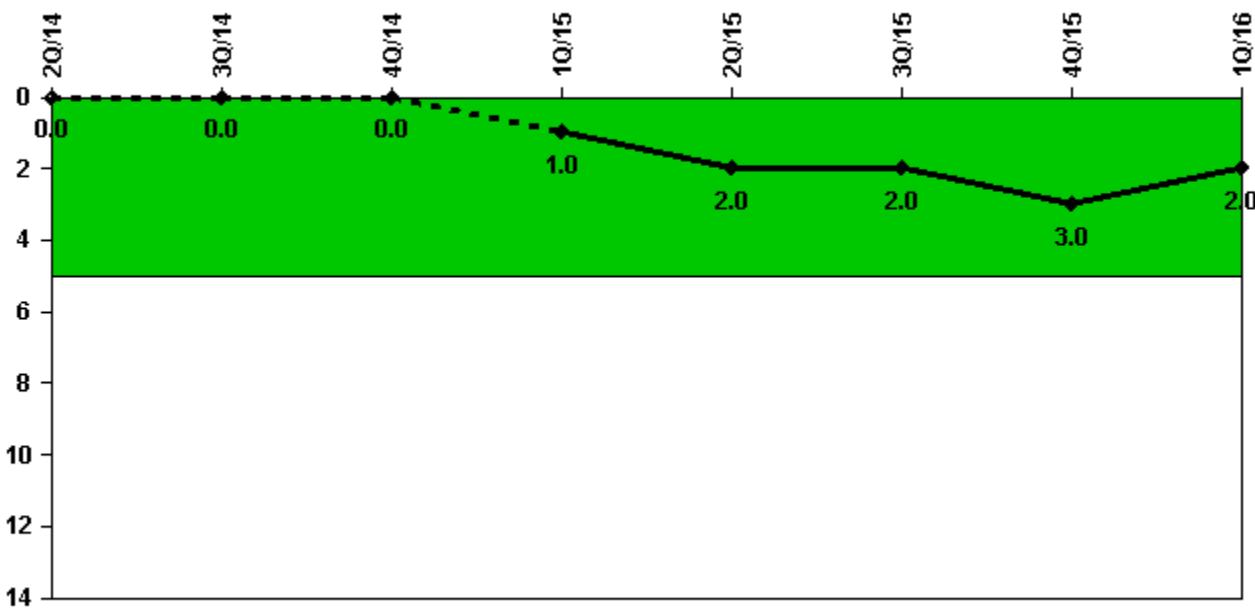
Thresholds: White > 1.0

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	0	0	1.0	0	0	0
Indicator value	1.0	1.0	1.0	0.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

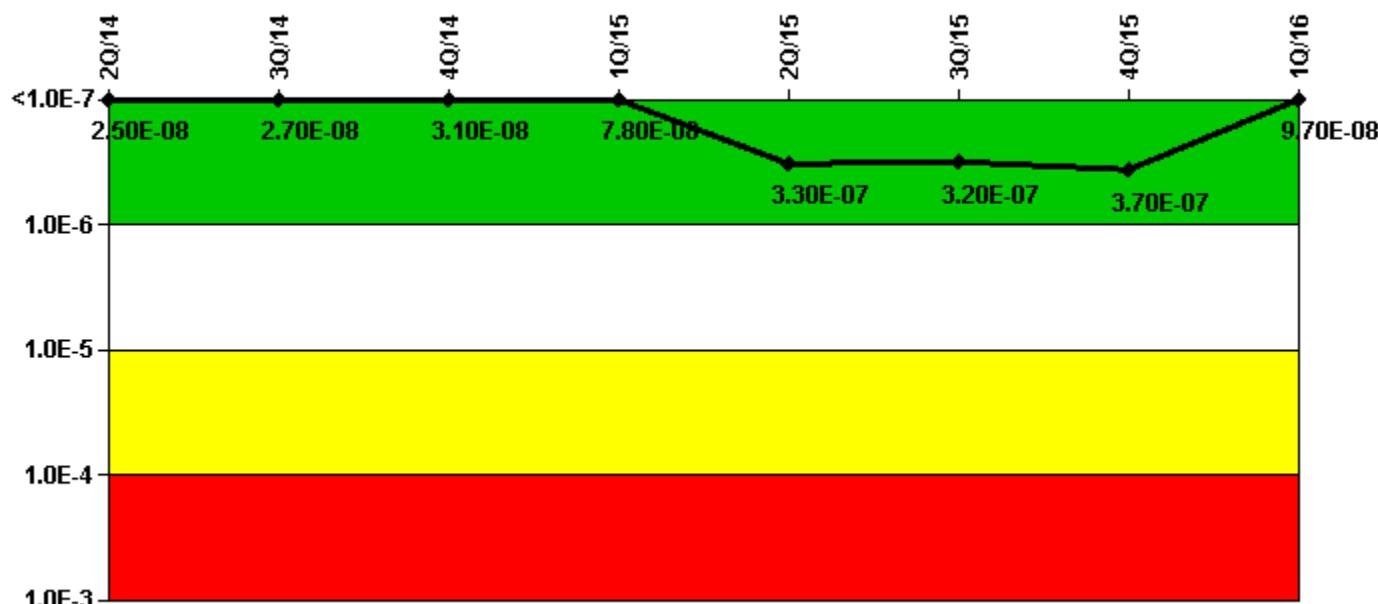
Safety System Functional Failures (PWR)	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Safety System Functional Failures	0	0	0	1	1	0	1	0
Indicator value	0	0	0	1	2	2	3	2

Licensee Comments:

2Q/15: 6/5/2015: LER 318/2015-002-00

1Q/15: 3/22/2015: LER 2015-001-00 05000317/05000318

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

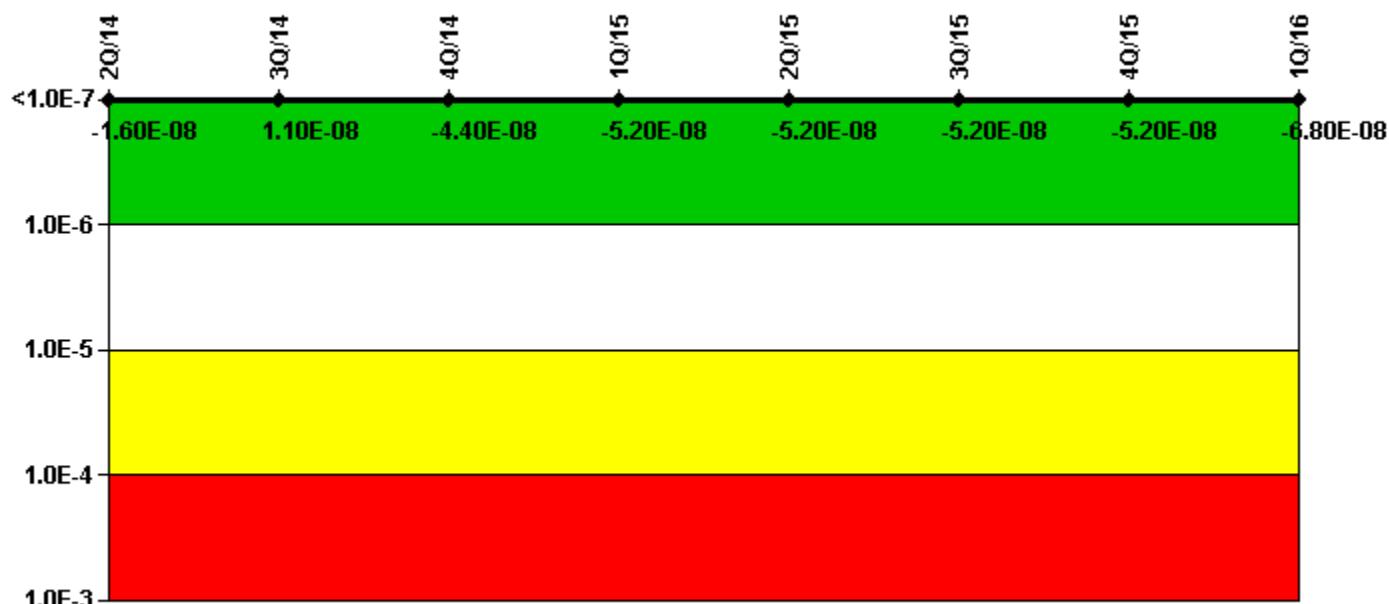
Mitigating Systems Performance Index, Emergency AC Power System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	4.11E-08	4.01E-08	-5.25E-08	-9.69E-11	6.56E-10	6.56E-10	5.93E-08	8.00E-09
URI (Δ CDF)	-1.62E-08	-1.32E-08	8.35E-08	7.77E-08	3.25E-07	3.23E-07	3.14E-07	8.91E-08
PLE	NO							
Indicator value	2.50E-08	2.70E-08	3.10E-08	7.80E-08	3.30E-07	3.20E-07	3.70E-07	9.70E-08

Licensee Comments:

3Q/14: 2A DG failure on 6/9/14 was determined to be an MSPI failure per AR 02384639.

2Q/14: 2A DG failure on 6/9/14 was determined to be an MSPI failure per AR 02384639.

Mitigating Systems Performance Index, High Pressure Injection System



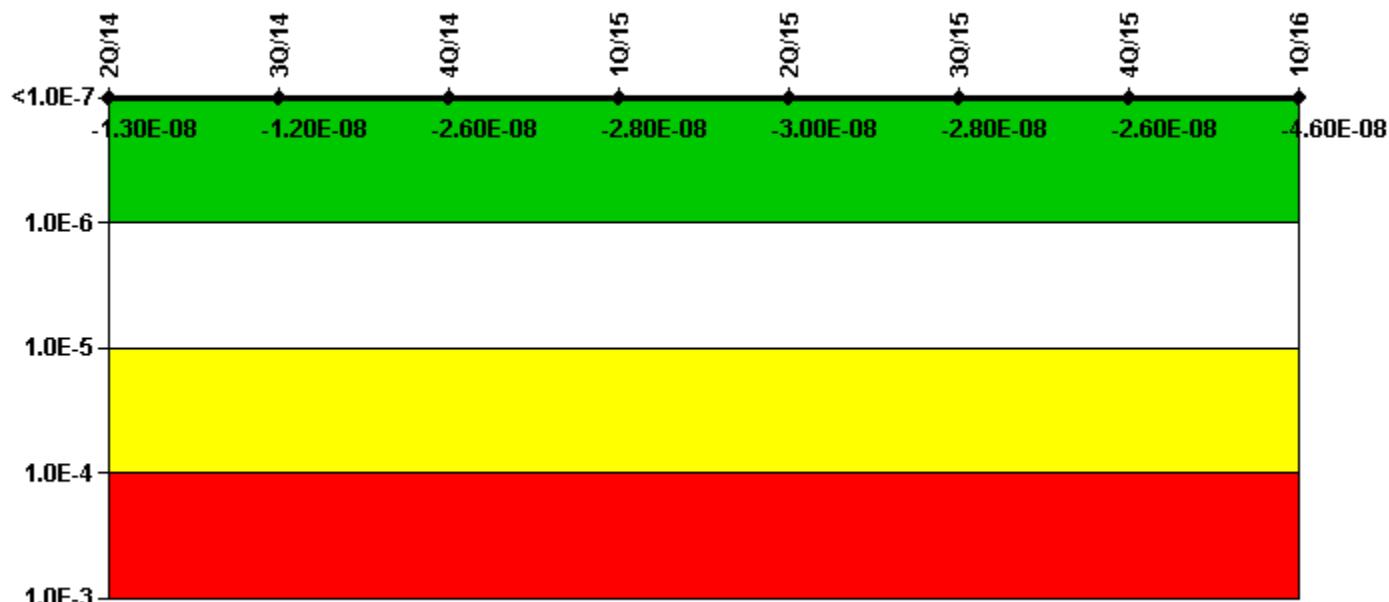
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	3.06E-08	5.49E-08	-1.74E-09	-5.89E-09	-5.54E-09	-5.54E-09	-6.18E-09	-2.67E-08
URI (Δ CDF)	-4.68E-08	-4.40E-08	-4.22E-08	-4.62E-08	-4.62E-08	-4.64E-08	-4.62E-08	-4.13E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	1.10E-08	-4.40E-08	-5.20E-08	-5.20E-08	-5.20E-08	-5.20E-08	-6.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



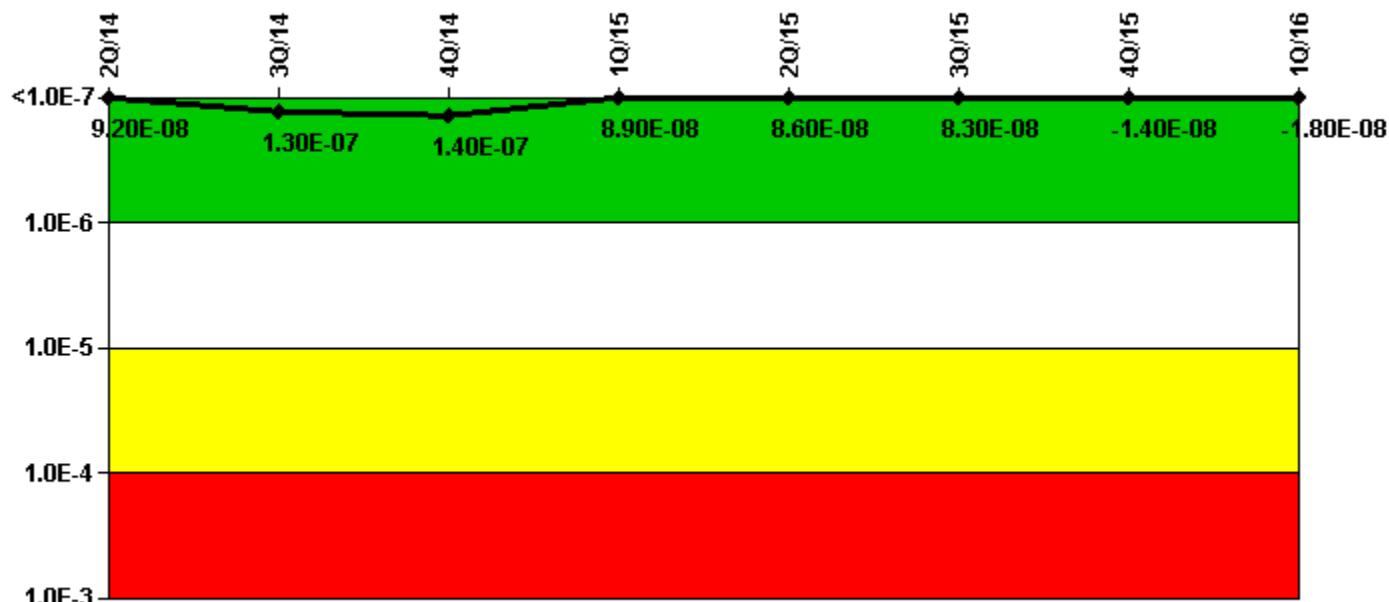
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	-2.68E-09	-2.73E-09	-6.30E-09	-3.55E-09	-5.15E-09	-3.03E-09	-1.02E-09	-8.56E-09
URI (Δ CDF)	-1.01E-08	-9.54E-09	-1.93E-08	-2.40E-08	-2.51E-08	-2.51E-08	-2.51E-08	-3.71E-08
PLE	NO							
Indicator value	-1.30E-08	-1.20E-08	-2.60E-08	-2.80E-08	-3.00E-08	-2.80E-08	-2.60E-08	-4.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



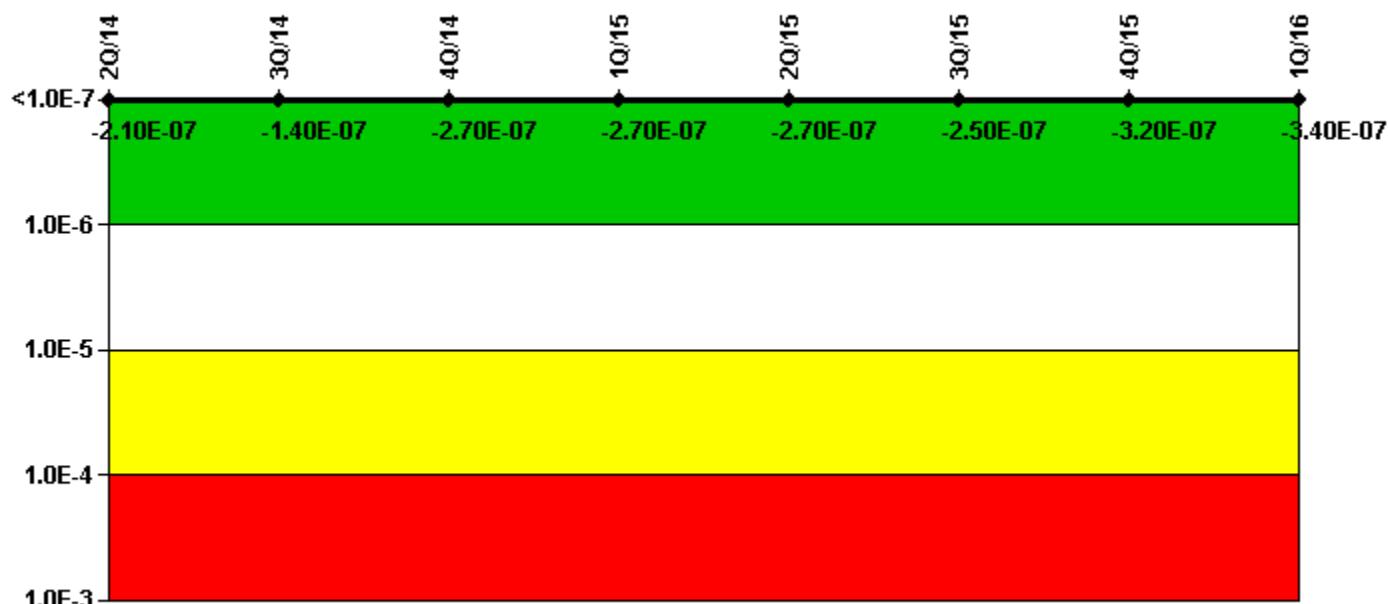
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	9.11E-08	1.32E-07	1.37E-07	8.93E-08	8.65E-08	8.34E-08	-8.96E-09	-1.31E-08
URI (Δ CDF)	1.10E-09	1.46E-09	1.20E-10	-4.83E-10	-3.33E-10	-4.45E-10	-4.65E-09	-4.78E-09
PLE	NO	NO						
Indicator value	9.20E-08	1.30E-07	1.40E-07	8.90E-08	8.60E-08	8.30E-08	-1.40E-08	-1.80E-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	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	2.64E-08	9.70E-08	-4.84E-08	-4.91E-08	-4.25E-08	-2.91E-08	-1.00E-07	-8.91E-08
URI (Δ CDF)	-2.38E-07	-2.37E-07	-2.24E-07	-2.24E-07	-2.24E-07	-2.23E-07	-2.23E-07	-2.50E-07
PLE	NO							
Indicator value	-2.10E-07	-1.40E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.50E-07	-3.20E-07	-3.40E-07

Licensee Comments:

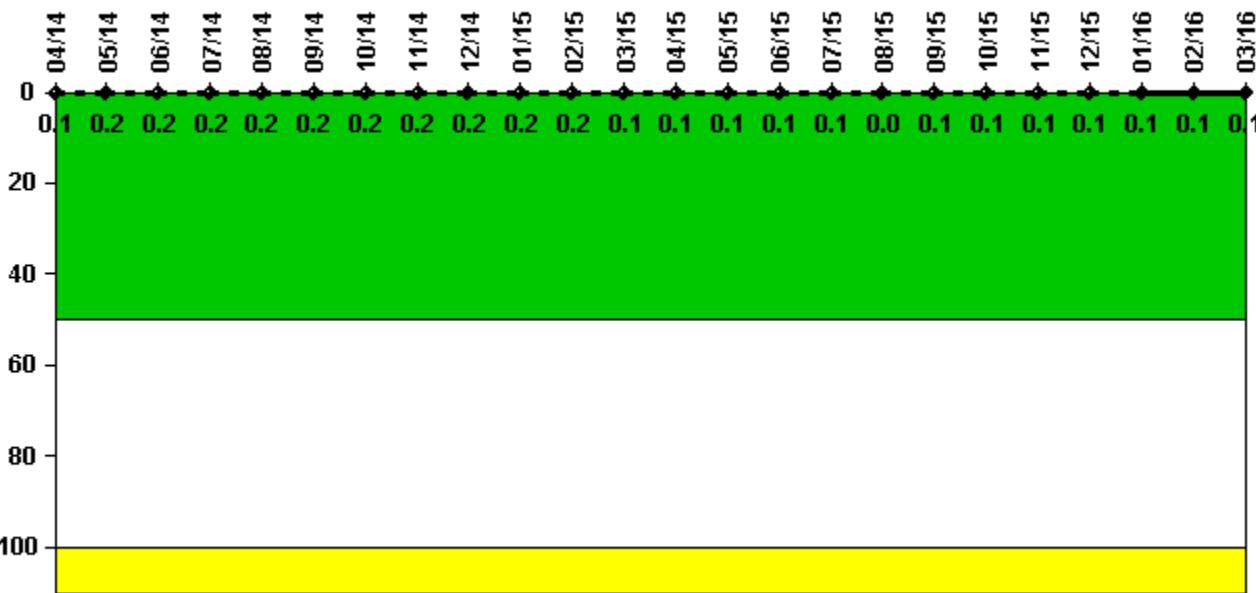
3Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

2Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

1Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

4Q/14: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

Reactor Coolant System Activity



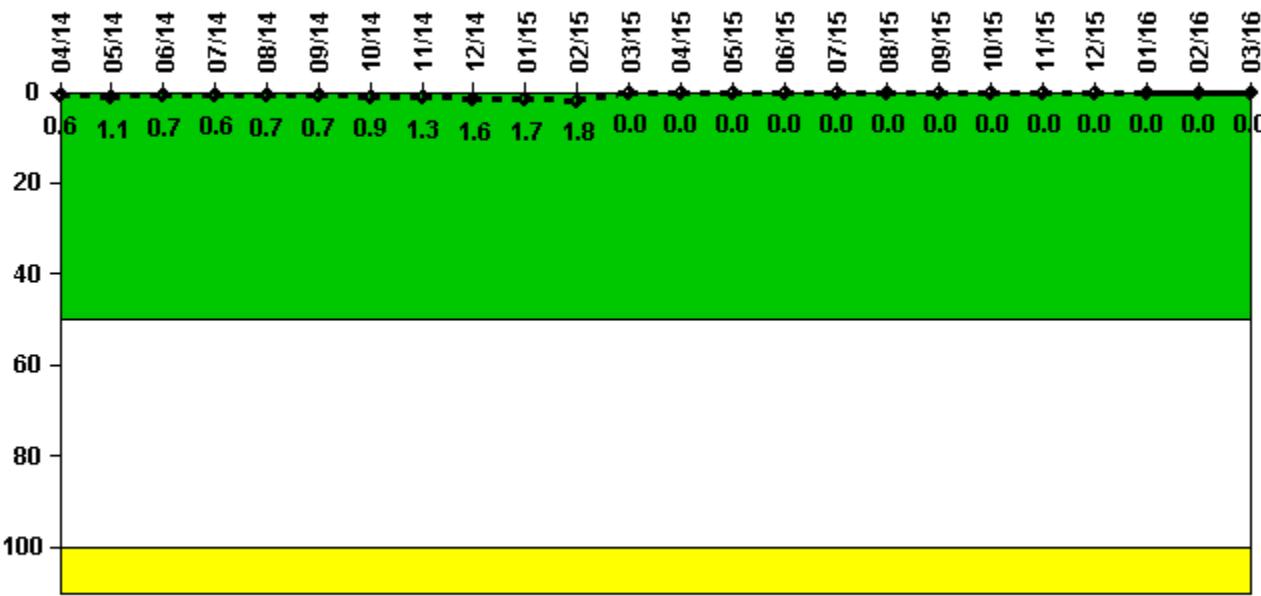
Thresholds: White > 50.0 Yellow > 100.0

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	0.000723	0.000765	0.000842	0.000863	0.001000	0.001200	0.001120	0.000807	0.000806	0.000903	0.001170	0.000279
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.000511	0.000288	0.000310	0.000301	0.000249	0.000332	0.000394	0.000406	0.000431	0.000415	0.000444	0.000417
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.1	0.1	0	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

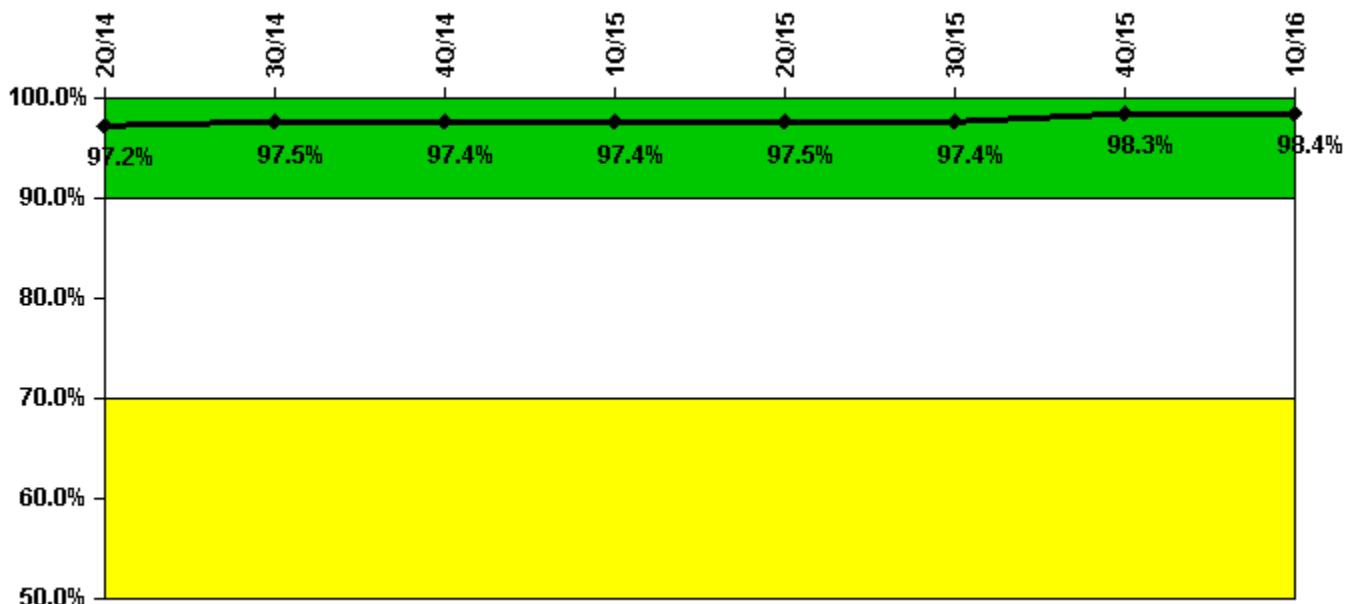
Notes

Reactor Coolant System Leakage	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum leakage	0.060	0.110	0.070	0.060	0.070	0.070	0.090	0.130	0.160	0.170	0.180	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	0.6	1.1	0.7	0.6	0.7	0.7	0.9	1.3	1.6	1.7	1.8	0

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	0	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	0											

Licensee Comments: none

Drill/Exercise Performance



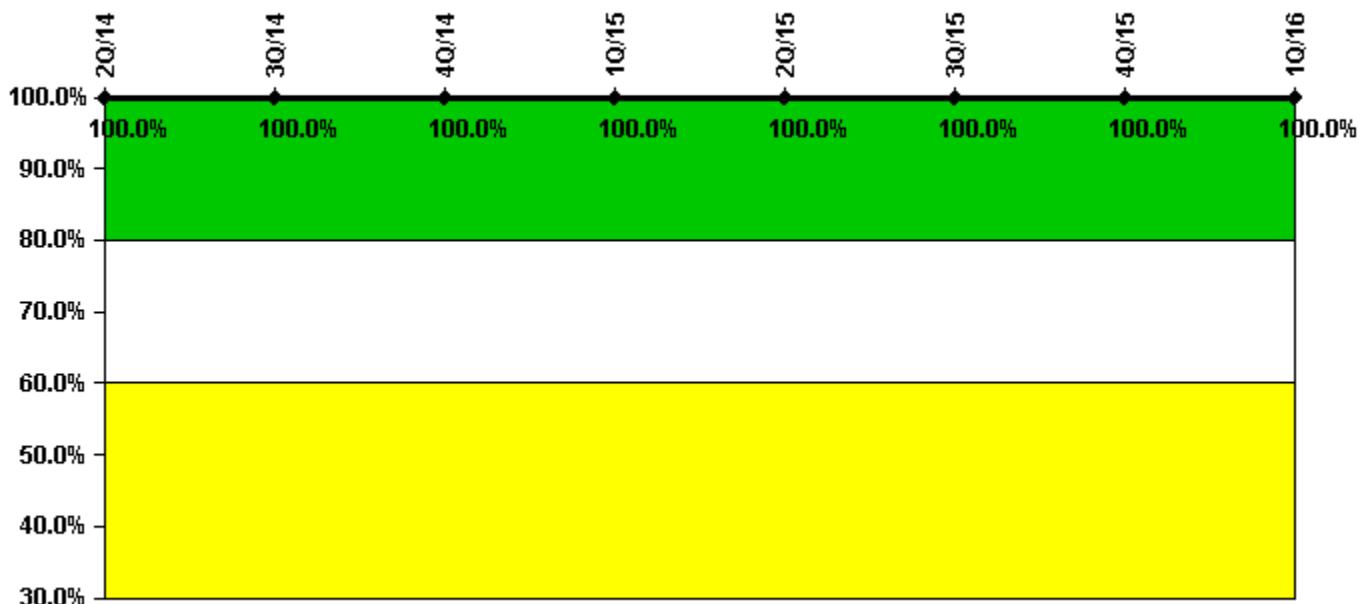
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful opportunities	48.0	51.0	47.0	9.0	75.0	44.0	60.0	42.0
Total opportunities	50.0	52.0	48.0	9.0	76.0	45.0	60.0	42.0
Indicator value	97.2%	97.5%	97.4%	97.4%	97.5%	97.4%	98.3%	98.4%

Licensee Comments: none

ERO Drill Participation



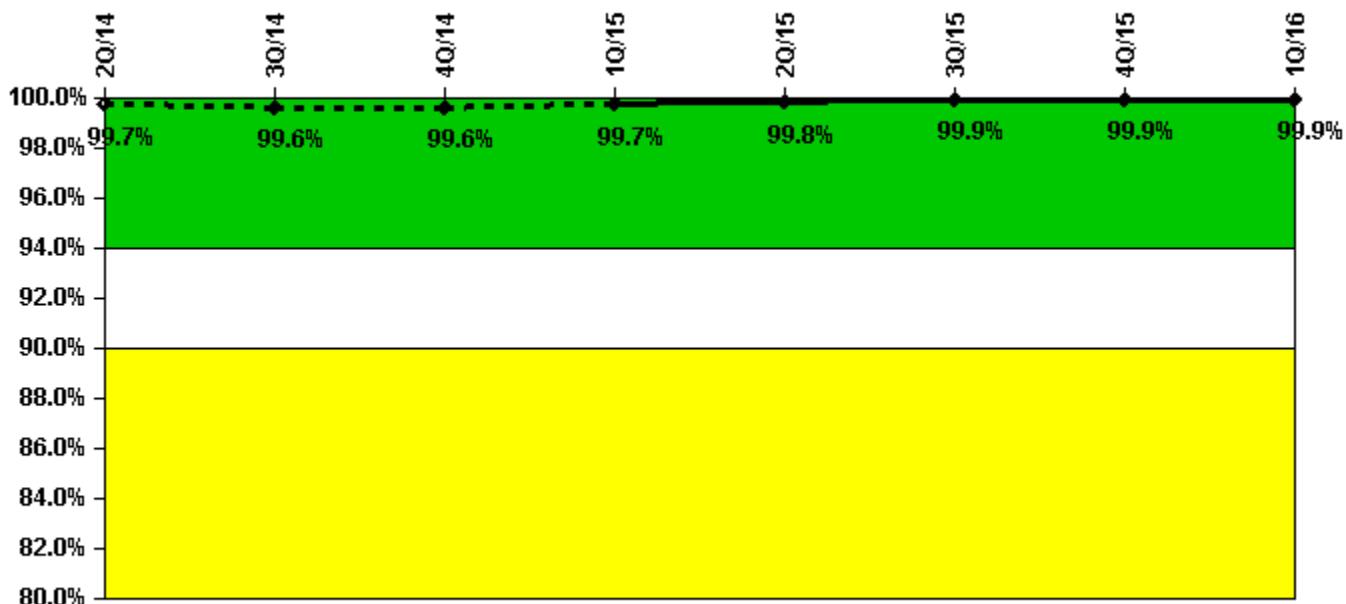
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Participating Key personnel	49.0	53.0	55.0	49.0	46.0	46.0	46.0	52.0
Total Key personnel	49.0	53.0	55.0	49.0	46.0	46.0	46.0	52.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



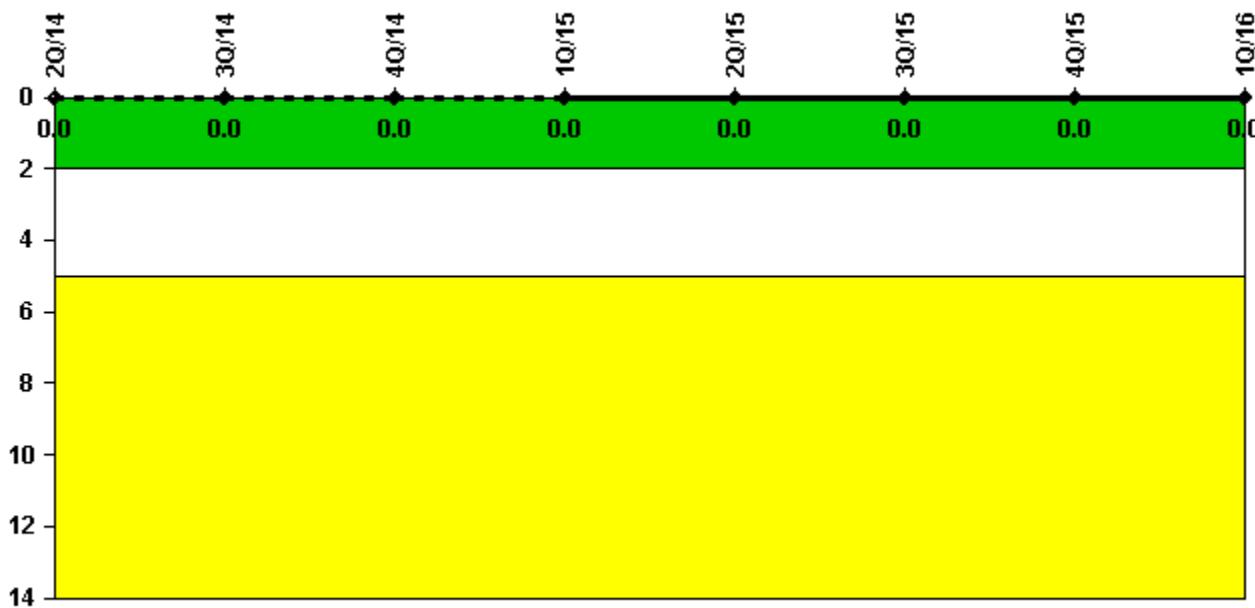
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful siren-tests	946	945	947	947	948	949	948	949
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.7%	99.6%	99.6%	99.7%	99.8%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness

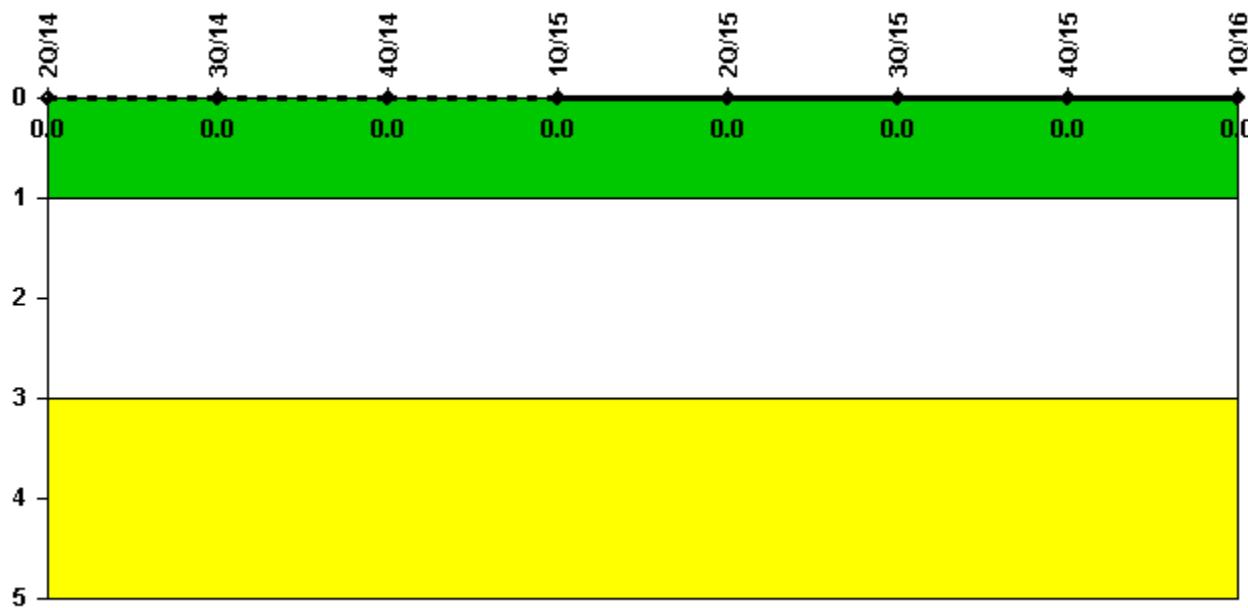


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/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

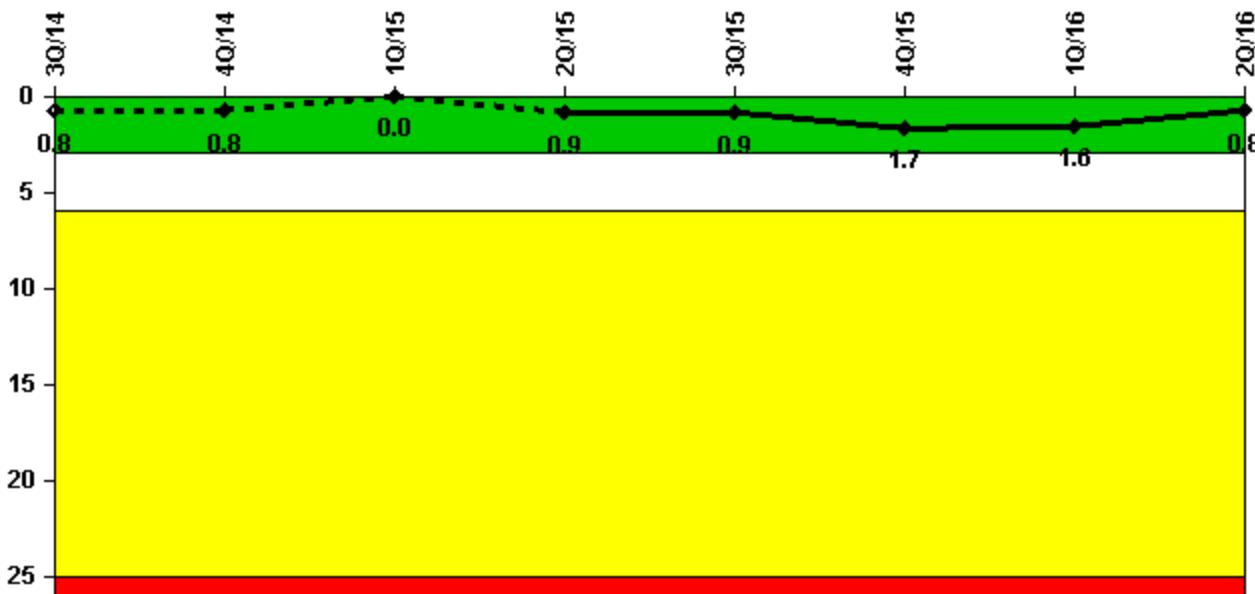
Calvert Cliffs 2

2Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



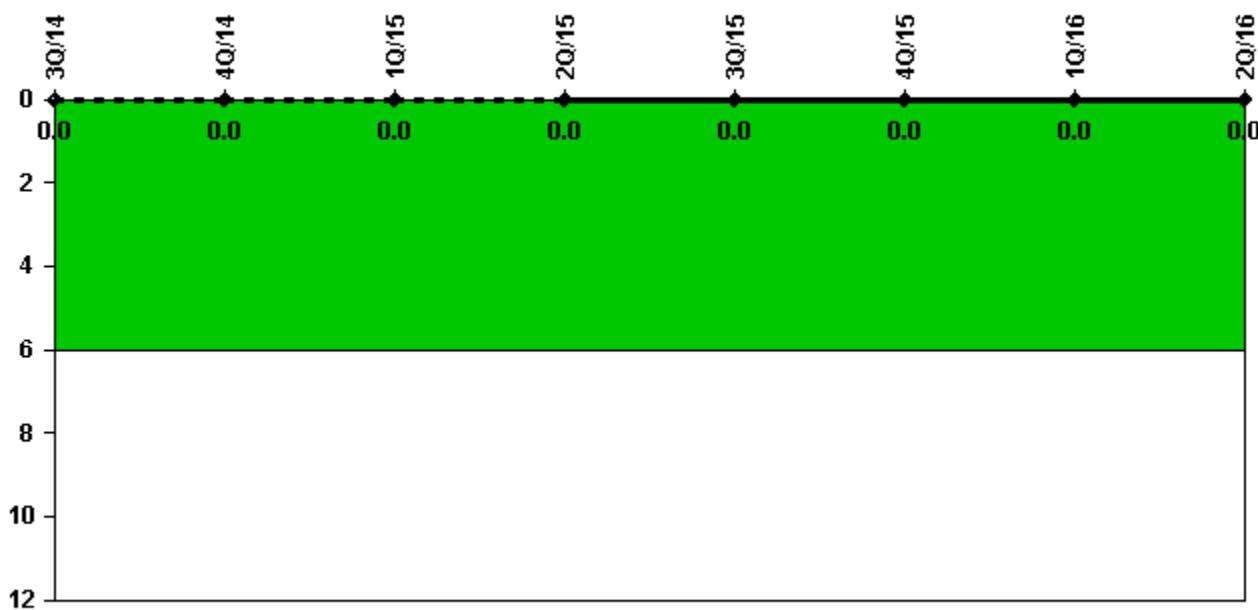
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	1.0	0	1.0	0	0
Critical hours	2208.0	2209.0	1593.3	2137.8	2208.0	2095.1	2183.0	2184.0
Indicator value	0.8	0.8	0	0.9	0.9	1.7	1.6	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



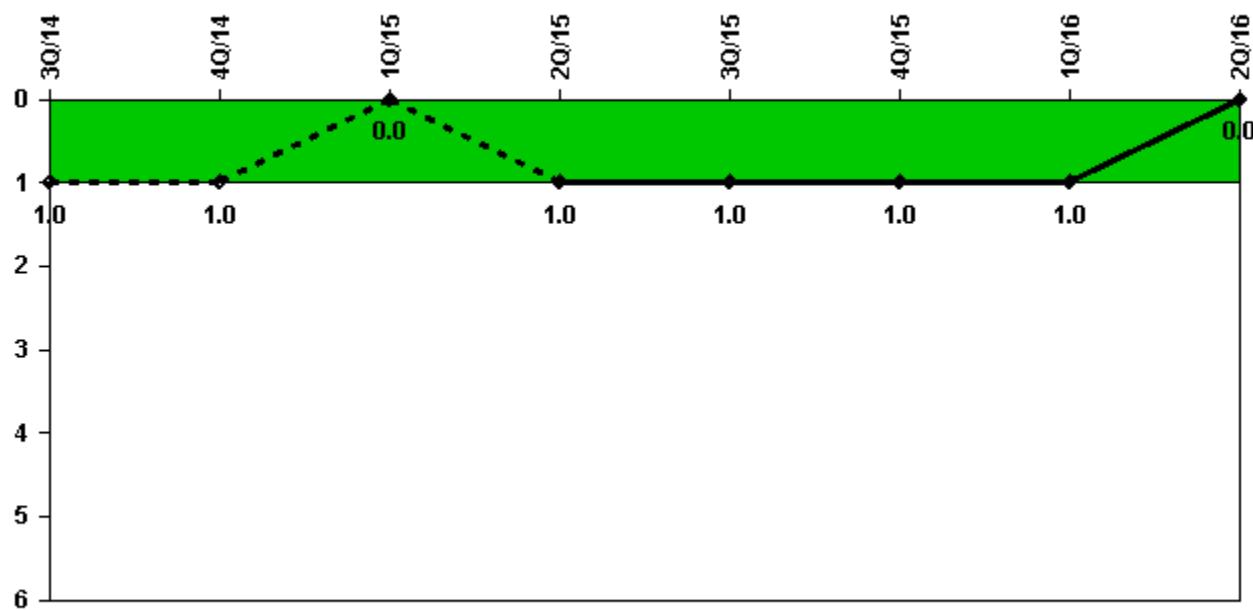
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/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	2209.0	1593.3	2137.8	2208.0	2095.1	2183.0	2184.0
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



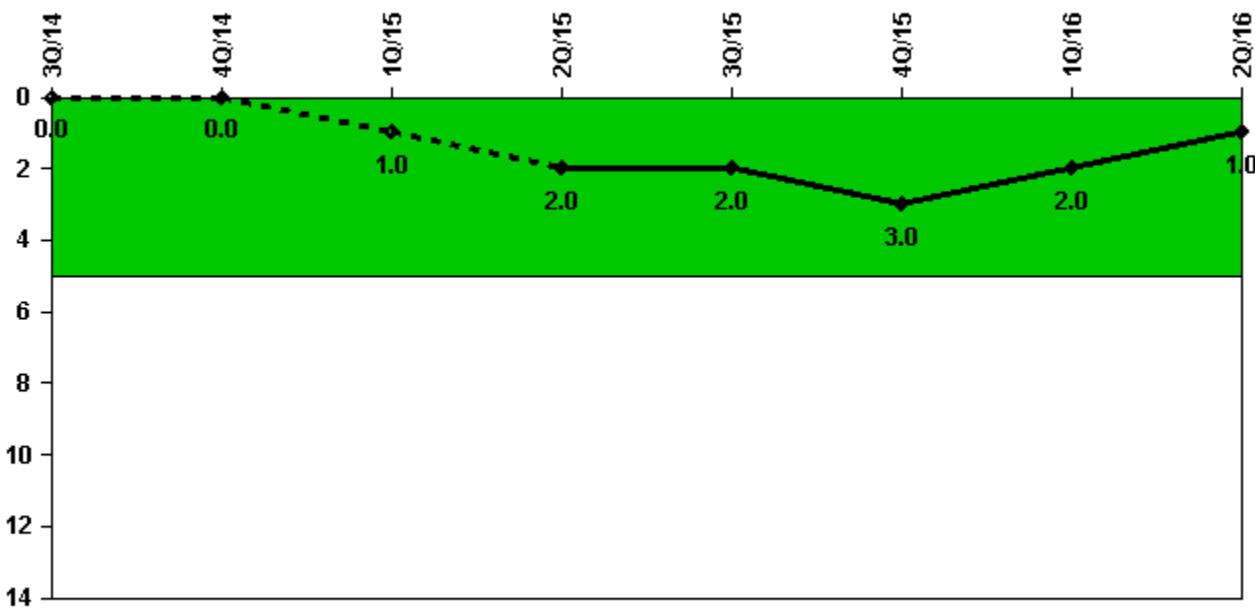
Thresholds: White > 1.0

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	0	0	1.0	0	0	0	0
Indicator value	1.0	1.0	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

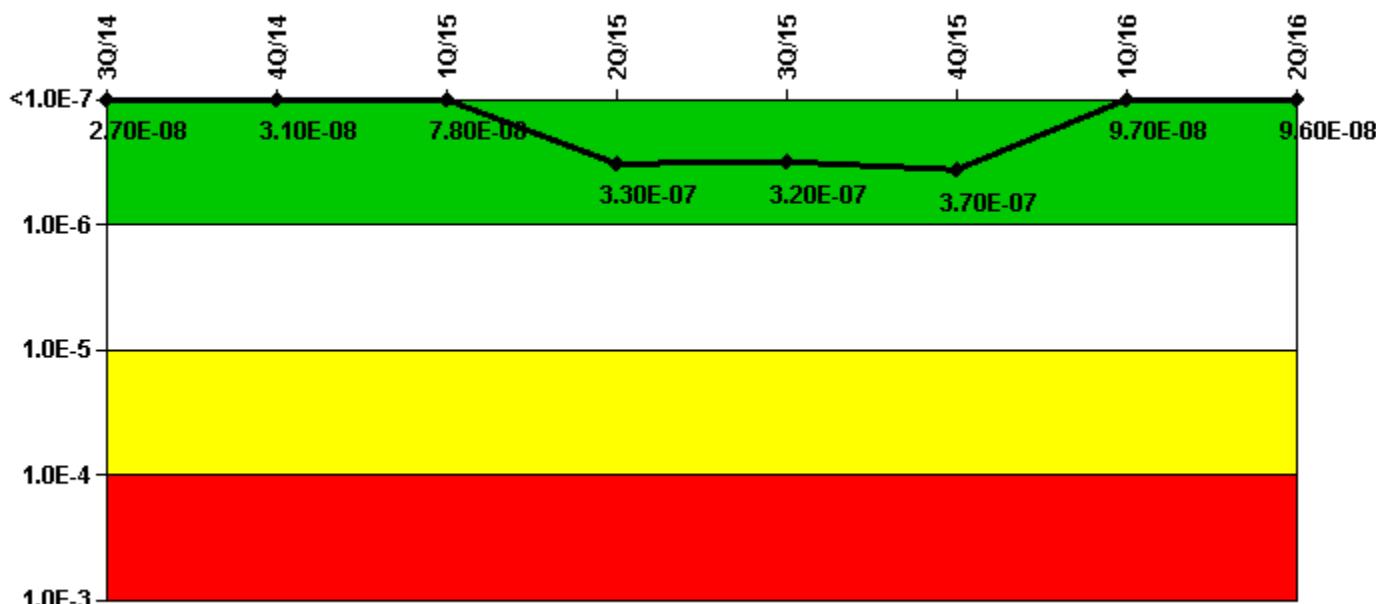
Safety System Functional Failures (PWR)	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Safety System Functional Failures	0	0	1	1	0	1	0	0
Indicator value	0	0	1	2	2	3	2	1

Licensee Comments:

2Q/15: 6/5/2015: LER 318/2015-002-00

1Q/15: 3/22/2015: LER 2015-001-00 05000317/05000318

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

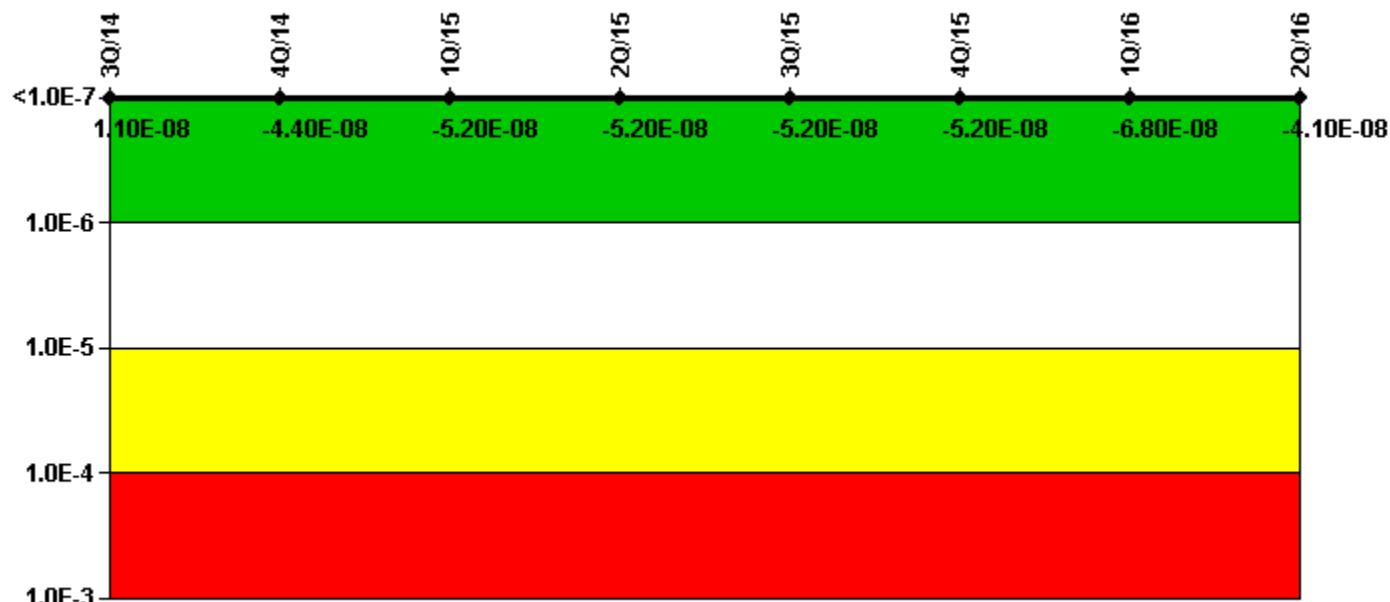
Notes

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)	4.01E-08	-5.25E-08	-9.69E-11	6.56E-10	6.56E-10	5.93E-08	8.00E-09	5.97E-09
URI (Δ CDF)	-1.32E-08	8.35E-08	7.77E-08	3.25E-07	3.23E-07	3.14E-07	8.91E-08	8.98E-08
PLE	NO							
Indicator value	2.70E-08	3.10E-08	7.80E-08	3.30E-07	3.20E-07	3.70E-07	9.70E-08	9.60E-08

Licensee Comments:

3Q/14: 2A DG failure on 6/9/14 was determined to be an MSPI failure per AR 02384639.

Mitigating Systems Performance Index, High Pressure Injection System



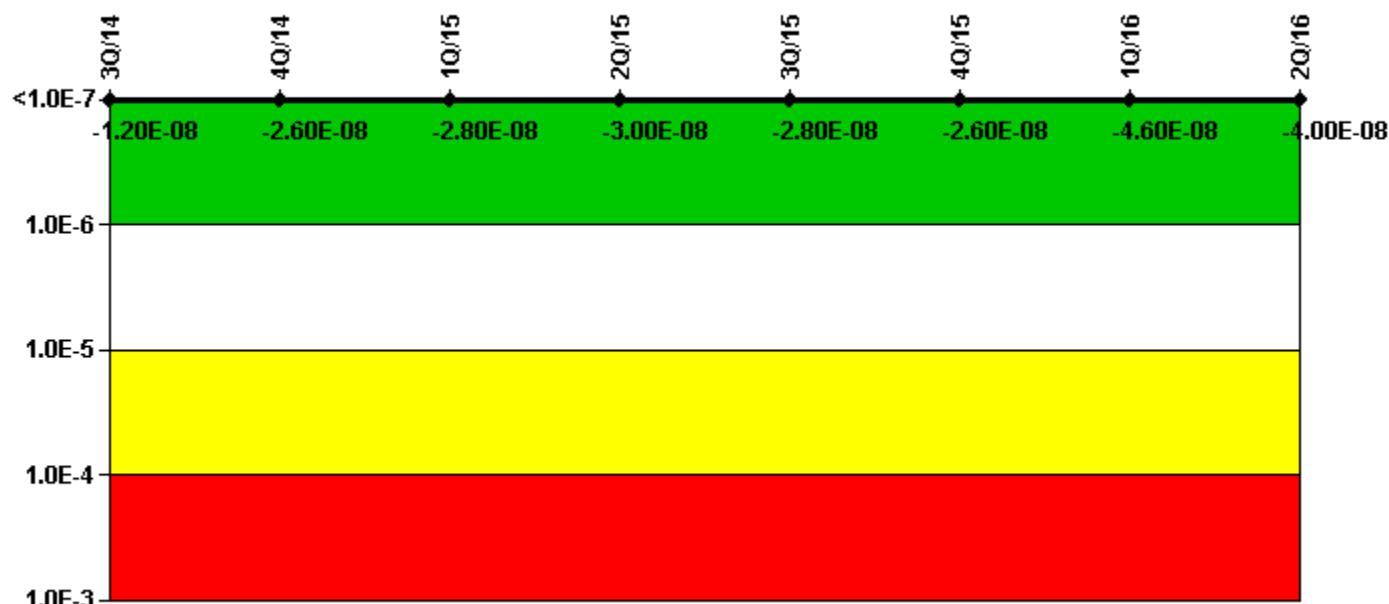
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	5.49E-08	-1.74E-09	-5.89E-09	-5.54E-09	-5.54E-09	-6.18E-09	-2.67E-08	1.55E-09
URI (Δ CDF)	-4.40E-08	-4.22E-08	-4.62E-08	-4.62E-08	-4.64E-08	-4.62E-08	-4.13E-08	-4.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.10E-08	-4.40E-08	-5.20E-08	-5.20E-08	-5.20E-08	-5.20E-08	-6.80E-08	-4.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



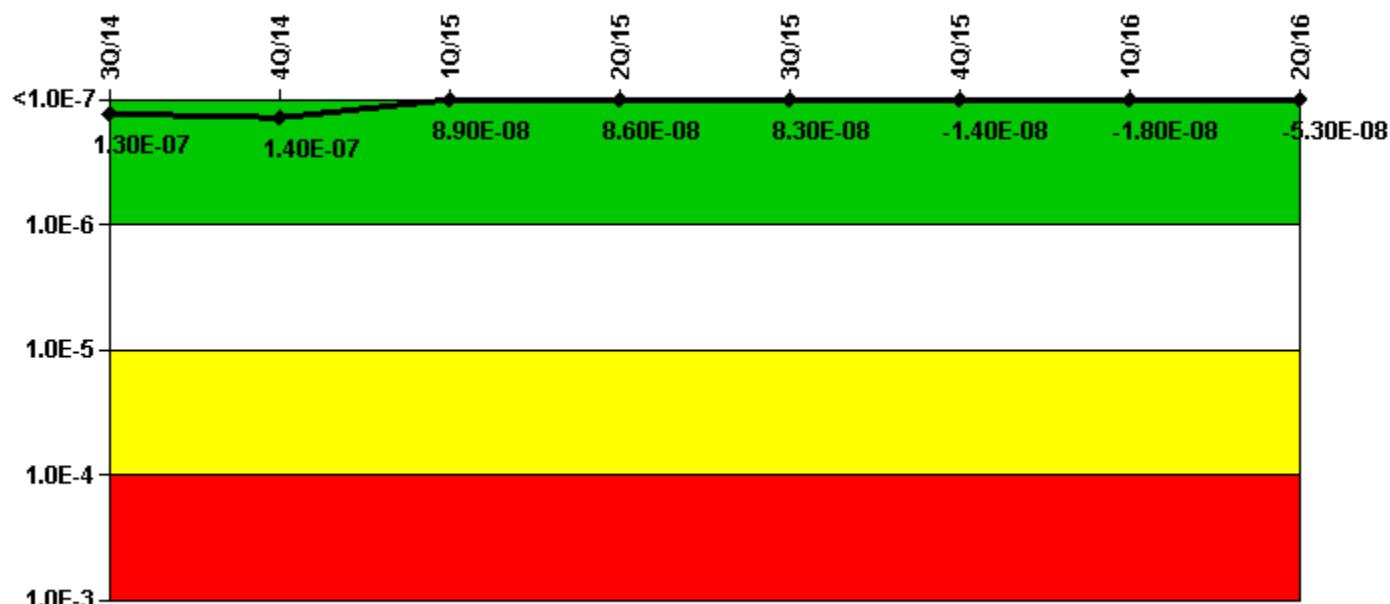
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	-2.73E-09	-6.30E-09	-3.55E-09	-5.15E-09	-3.03E-09	-1.02E-09	-8.56E-09	-1.89E-09
URI (Δ CDF)	-9.54E-09	-1.93E-08	-2.40E-08	-2.51E-08	-2.51E-08	-2.51E-08	-3.71E-08	-3.78E-08
PLE	NO							
Indicator value	-1.20E-08	-2.60E-08	-2.80E-08	-3.00E-08	-2.80E-08	-2.60E-08	-4.60E-08	-4.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



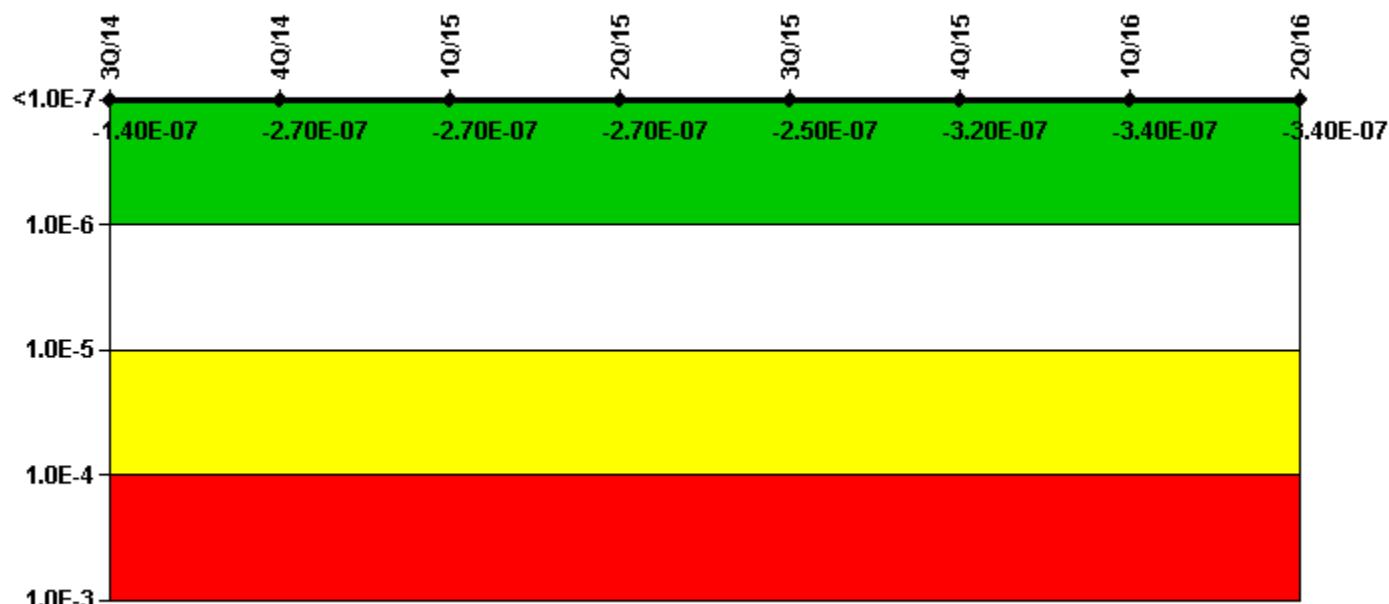
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	1.32E-07	1.37E-07	8.93E-08	8.65E-08	8.34E-08	-8.96E-09	-1.31E-08	-4.82E-08
URI (Δ CDF)	1.46E-09	1.20E-10	-4.83E-10	-3.33E-10	-4.45E-10	-4.65E-09	-4.78E-09	-5.03E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.30E-07	1.40E-07	8.90E-08	8.60E-08	8.30E-08	-1.40E-08	-1.80E-08	-5.30E-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/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	9.70E-08	-4.84E-08	-4.91E-08	-4.25E-08	-2.91E-08	-1.00E-07	-8.91E-08	-8.97E-08
URI (Δ CDF)	-2.37E-07	-2.24E-07	-2.24E-07	-2.24E-07	-2.23E-07	-2.23E-07	-2.50E-07	-2.50E-07
PLE	NO							
Indicator value	-1.40E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.50E-07	-3.20E-07	-3.40E-07	-3.40E-07

Licensee Comments:

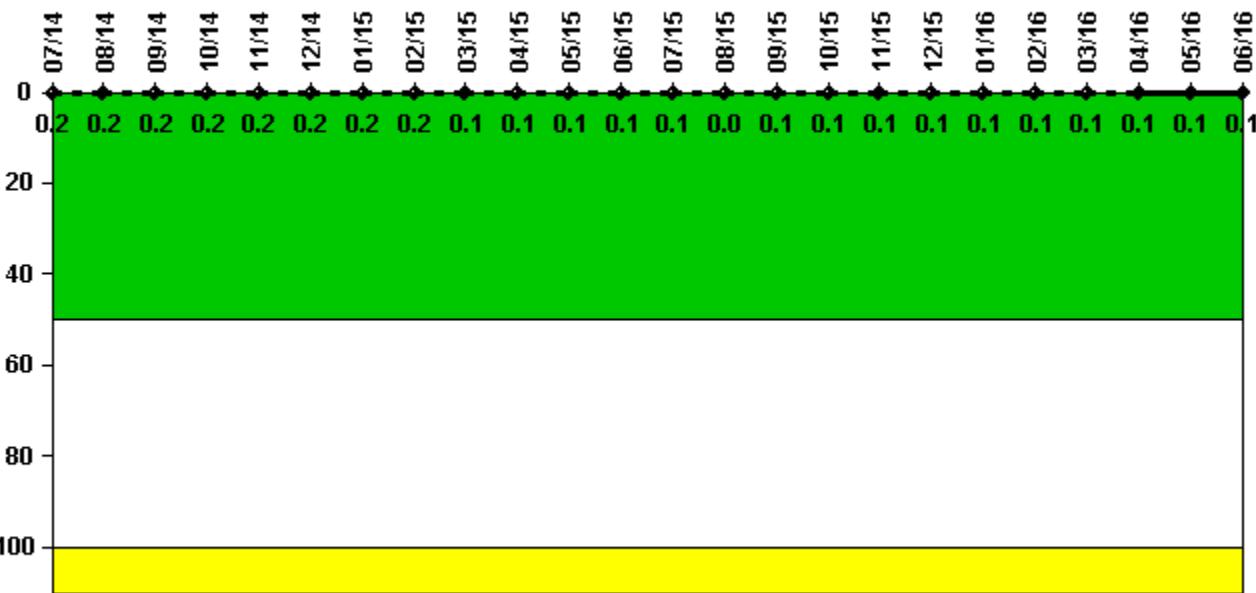
3Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

2Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

1Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

4Q/14: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

Reactor Coolant System Activity



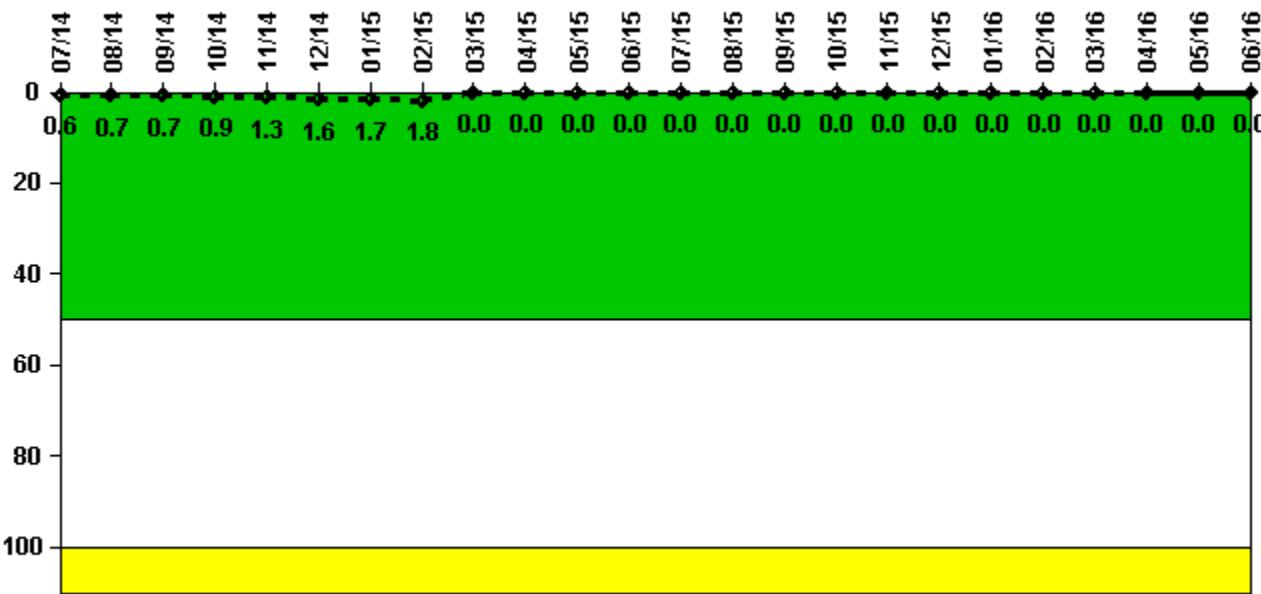
Thresholds: White > 50.0 Yellow > 100.0

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	0.000863	0.001000	0.001200	0.001120	0.000807	0.000806	0.000903	0.001170	0.000279	0.000511	0.000288	0.000310
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1
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	0.000301	0.000249	0.000332	0.000394	0.000406	0.000431	0.000415	0.000444	0.000417	0.000303	0.000322	0.000484
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0	0.1	0.1	0.1	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

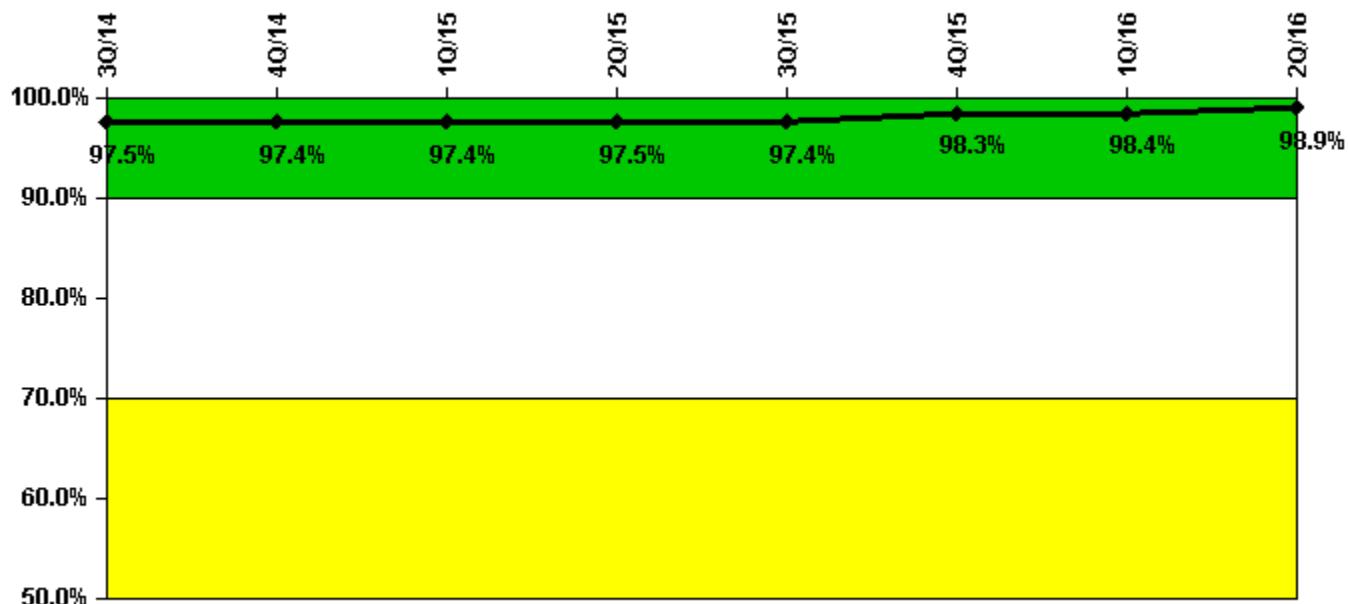
Notes

Reactor Coolant System Leakage	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	0.060	0.070	0.070	0.090	0.130	0.160	0.170	0.180	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	0.6	0.7	0.7	0.9	1.3	1.6	1.7	1.8	0	0	0	0

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	0	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	0											

Licensee Comments: none

Drill/Exercise Performance



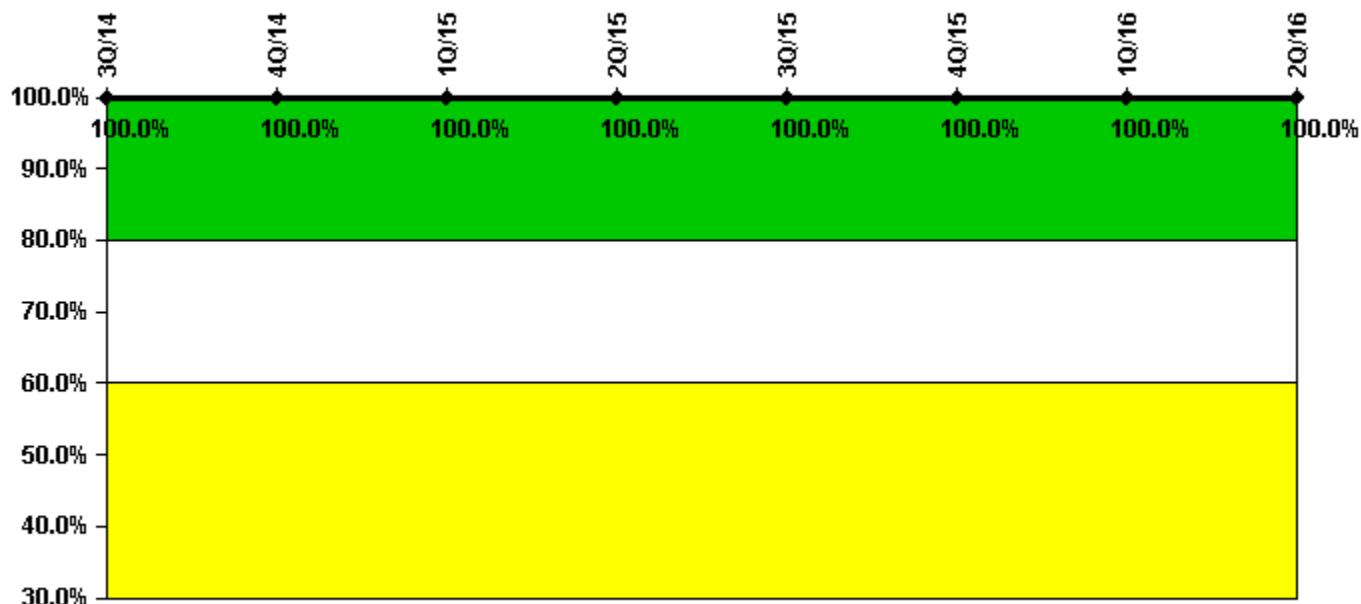
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful opportunities	51.0	47.0	9.0	75.0	44.0	60.0	42.0	30.0
Total opportunities	52.0	48.0	9.0	76.0	45.0	60.0	42.0	30.0
Indicator value	97.5%	97.4%	97.4%	97.5%	97.4%	98.3%	98.4%	98.9%

Licensee Comments: none

ERO Drill Participation



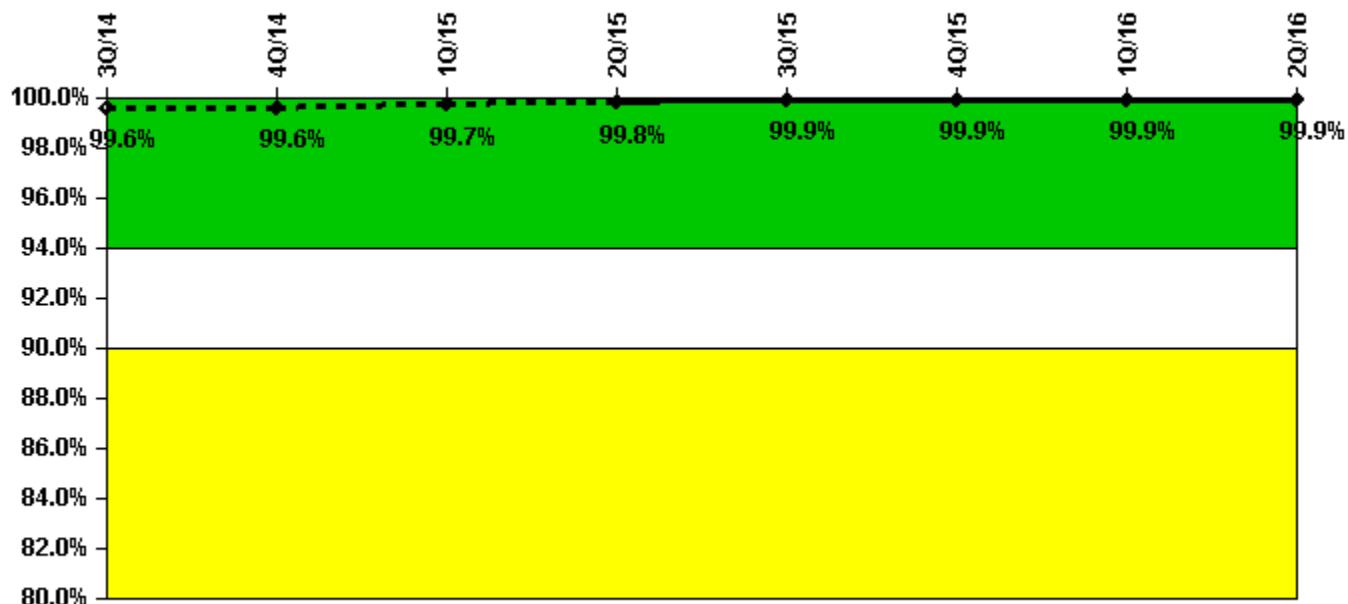
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Participating Key personnel	53.0	55.0	49.0	46.0	46.0	46.0	52.0	55.0
Total Key personnel	53.0	55.0	49.0	46.0	46.0	46.0	52.0	55.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



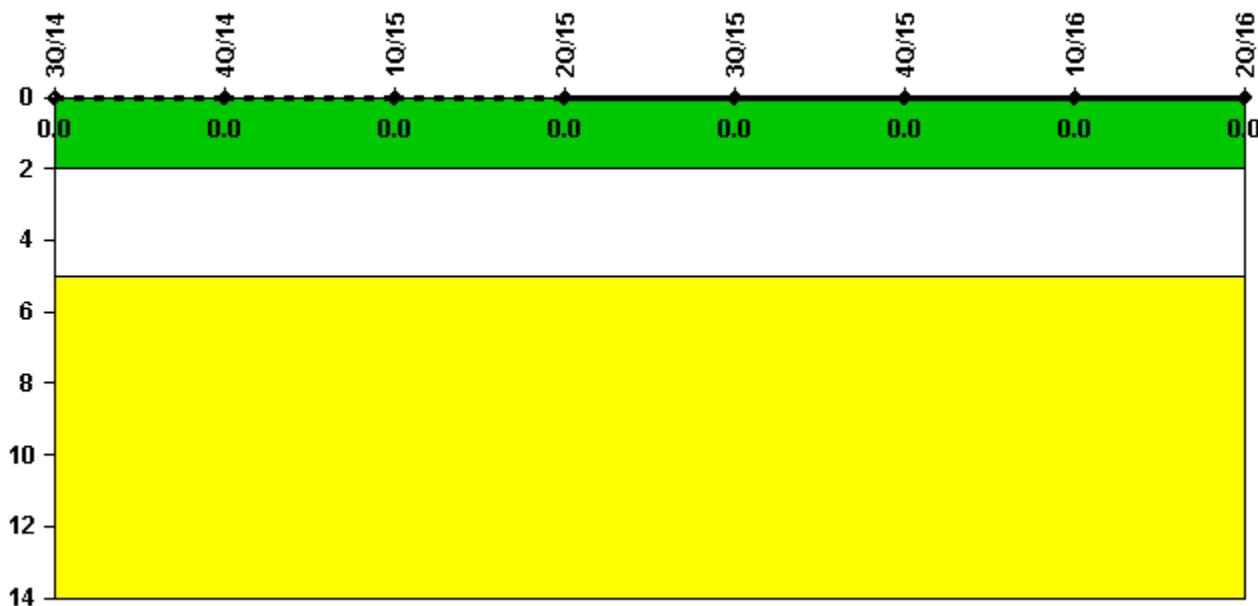
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful siren-tests	945	947	947	948	949	948	949	948
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.6%	99.6%	99.7%	99.8%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



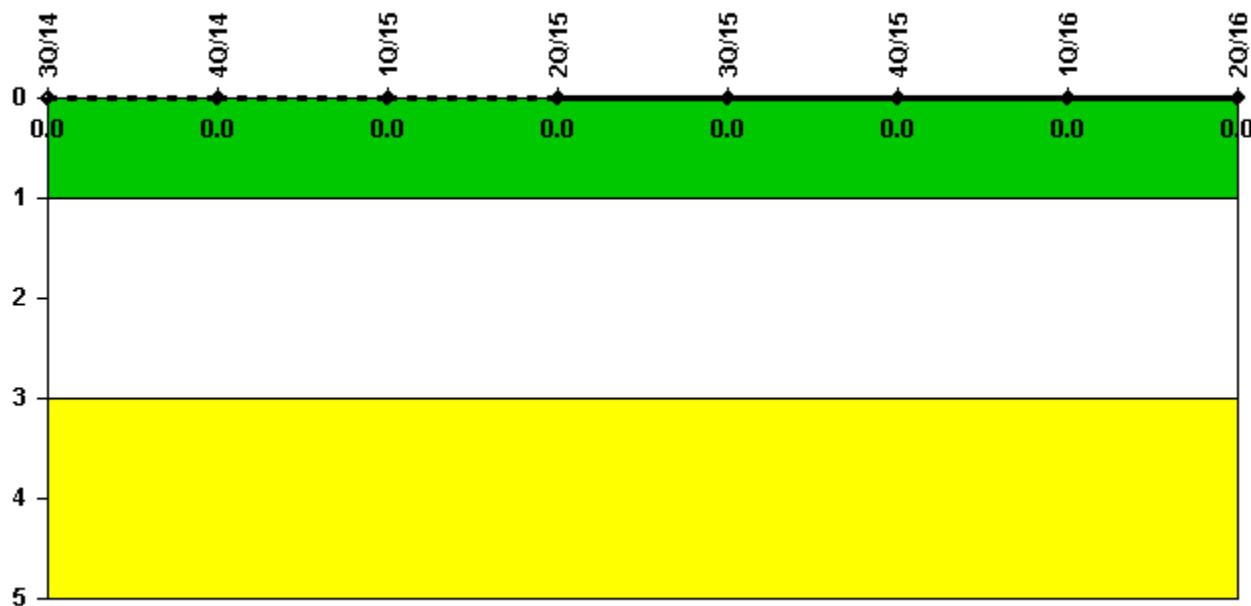
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/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

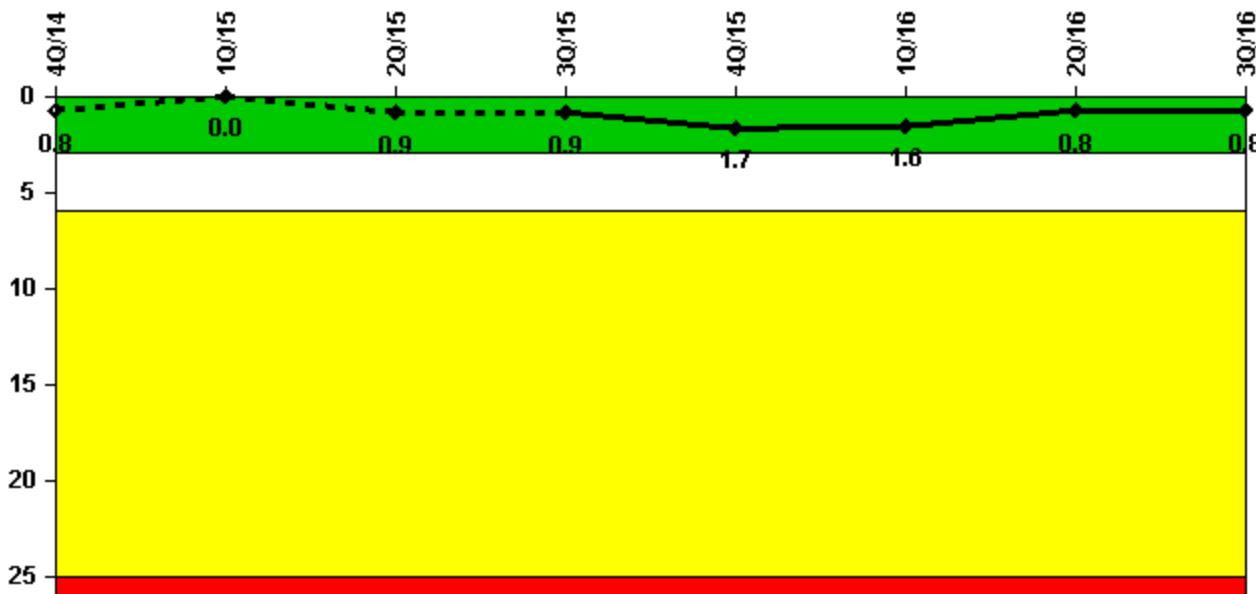
Calvert Cliffs 2

3Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs

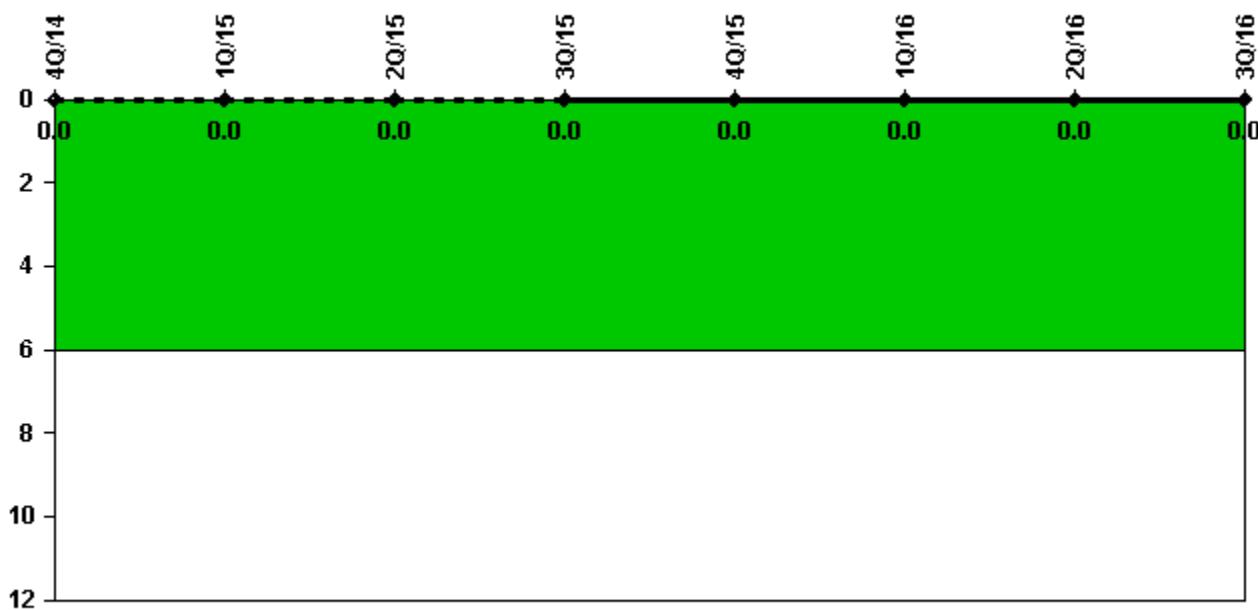


Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	1.0	0	1.0	0	0	0
Critical hours	2209.0	1593.3	2137.8	2208.0	2095.1	2183.0	2184.0	2208.0
Indicator value	0.8	0	0.9	0.9	1.7	1.6	0.8	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

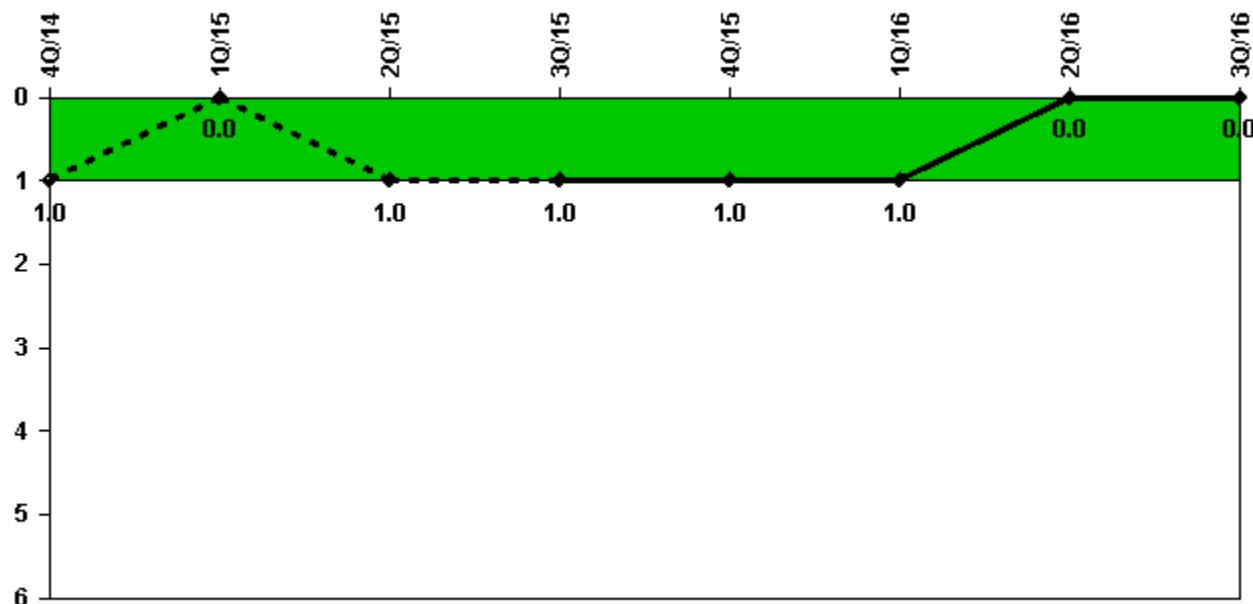
Thresholds: White > 6.0

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	2209.0	1593.3	2137.8	2208.0	2095.1	2183.0	2184.0	2208.0
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



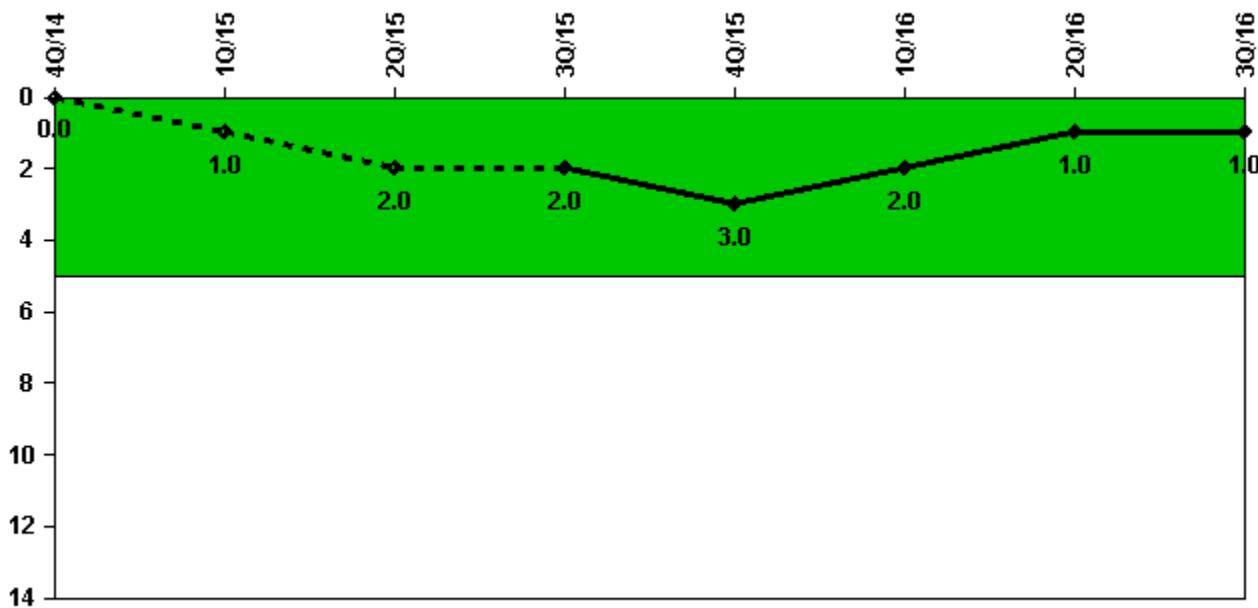
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Scrams with complications	0	0	1.0	0	0	0	0	0
Indicator value	1.0	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

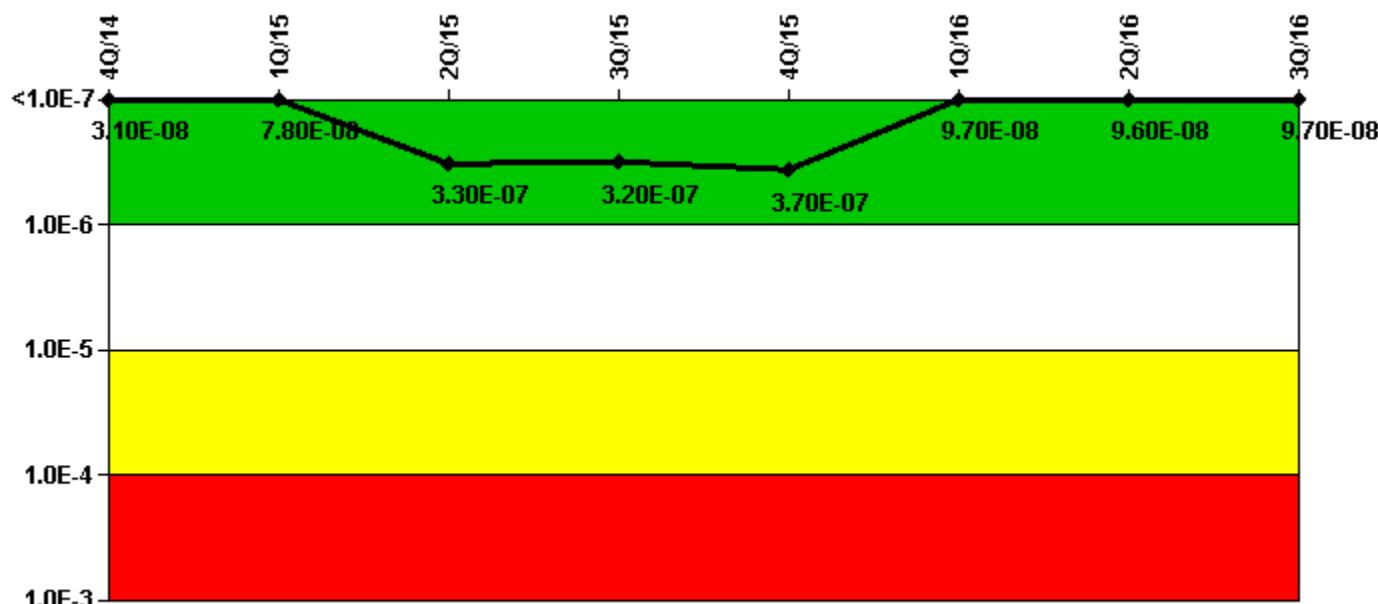
Safety System Functional Failures (PWR)	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Safety System Functional Failures	0	1	1	0	1	0	0	0
Indicator value	0	1	2	2	3	2	1	1

Licensee Comments:

2Q/15: 6/5/2015: LER 318/2015-002-00

1Q/15: 3/22/2015: LER 2015-001-00 05000317/05000318

Mitigating Systems Performance Index, Emergency AC Power System



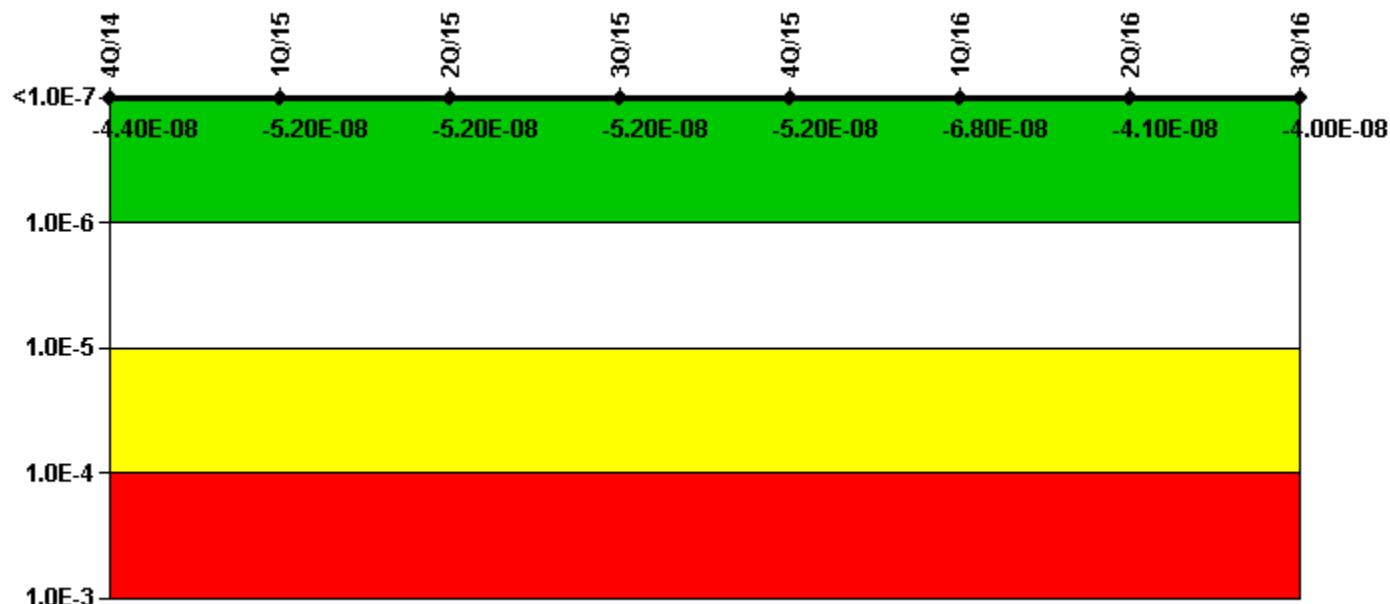
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-5.25E-08	-9.69E-11	6.56E-10	6.56E-10	5.93E-08	8.00E-09	5.97E-09	5.64E-09
URI (Δ CDF)	8.35E-08	7.77E-08	3.25E-07	3.23E-07	3.14E-07	8.91E-08	8.98E-08	9.15E-08
PLE	NO							
Indicator value	3.10E-08	7.80E-08	3.30E-07	3.20E-07	3.70E-07	9.70E-08	9.60E-08	9.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



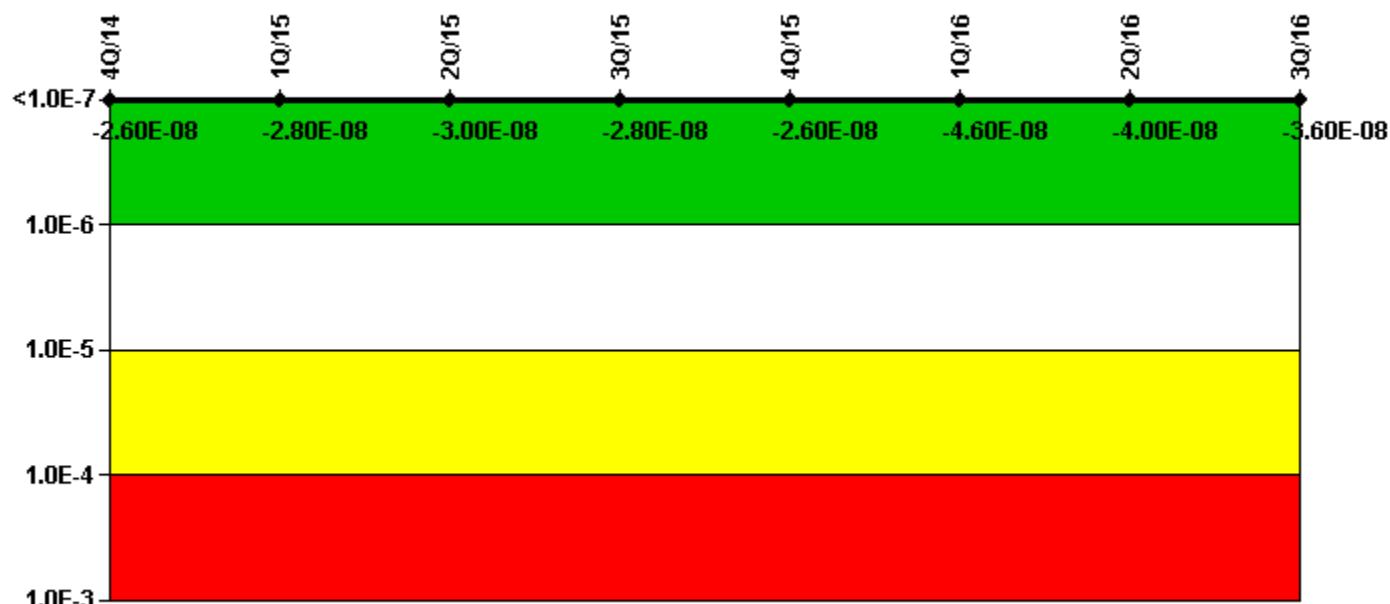
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	-1.74E-09	-5.89E-09	-5.54E-09	-5.54E-09	-6.18E-09	-2.67E-08	1.55E-09	2.16E-09
URI (Δ CDF)	-4.22E-08	-4.62E-08	-4.62E-08	-4.64E-08	-4.62E-08	-4.13E-08	-4.27E-08	-4.20E-08
PLE	NO							
Indicator value	-4.40E-08	-5.20E-08	-5.20E-08	-5.20E-08	-5.20E-08	-6.80E-08	-4.10E-08	-4.00E-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/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	-6.30E-09	-3.55E-09	-5.15E-09	-3.03E-09	-1.02E-09	-8.56E-09	-1.89E-09	2.72E-09
URI (Δ CDF)	-1.93E-08	-2.40E-08	-2.51E-08	-2.51E-08	-2.51E-08	-3.71E-08	-3.78E-08	-3.88E-08
PLE	NO							
Indicator value	-2.60E-08	-2.80E-08	-3.00E-08	-2.80E-08	-2.60E-08	-4.60E-08	-4.00E-08	-3.60E-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/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	1.37E-07	8.93E-08	8.65E-08	8.34E-08	-8.96E-09	-1.31E-08	-4.82E-08	-4.82E-08
URI (Δ CDF)	1.20E-10	-4.83E-10	-3.33E-10	-4.45E-10	-4.65E-09	-4.78E-09	-5.03E-09	-4.92E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.40E-07	8.90E-08	8.60E-08	8.30E-08	-1.40E-08	-1.80E-08	-5.30E-08	-5.30E-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/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	-4.84E-08	-4.91E-08	-4.25E-08	-2.91E-08	-1.00E-07	-8.91E-08	-8.97E-08	-9.03E-08
URI (Δ CDF)	-2.24E-07	-2.24E-07	-2.24E-07	-2.23E-07	-2.23E-07	-2.50E-07	-2.50E-07	-2.50E-07
PLE	NO							
Indicator value	-2.70E-07	-2.70E-07	-2.70E-07	-2.50E-07	-3.20E-07	-3.40E-07	-3.40E-07	-3.40E-07

Licensee Comments:

3Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

2Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

1Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

4Q/14: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

Reactor Coolant System Activity



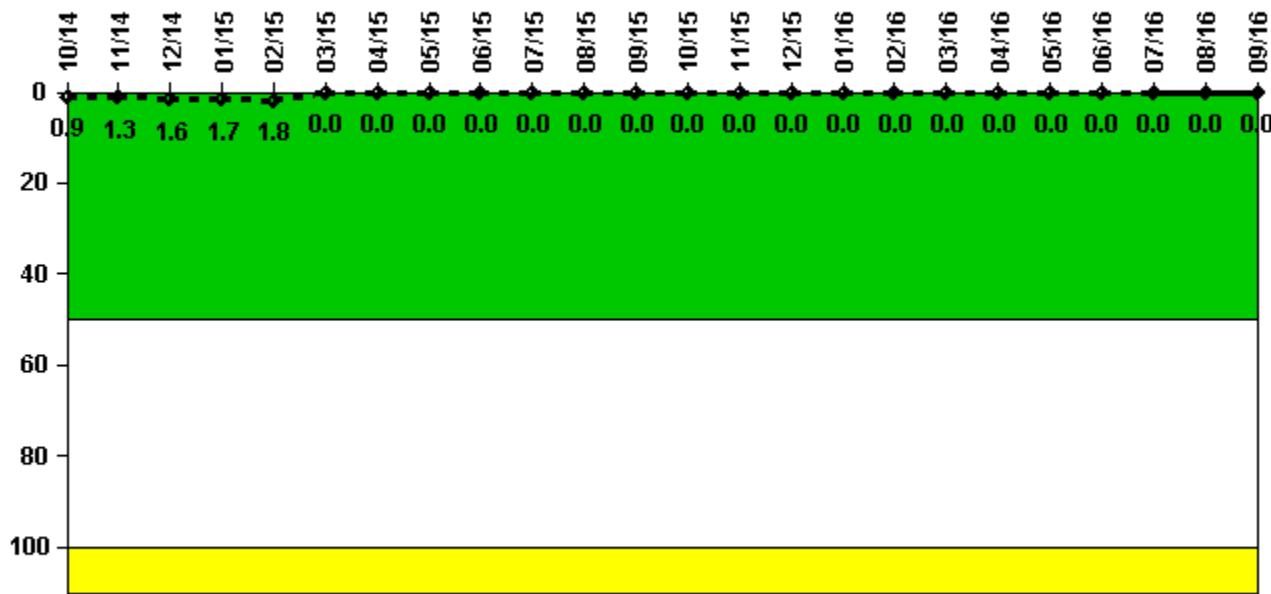
Thresholds: White > 50.0 Yellow > 100.0

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	0.001120	0.000807	0.000806	0.000903	0.001170	0.000279	0.000511	0.000288	0.000310	0.000301	0.000249	0.000332
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.2	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0	0.1
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	0.000394	0.000406	0.000431	0.000415	0.000444	0.000417	0.000303	0.000322	0.000484	0.000531	0.000540	0.000535
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1											

Licensee Comments: none

Reactor Coolant System Leakage



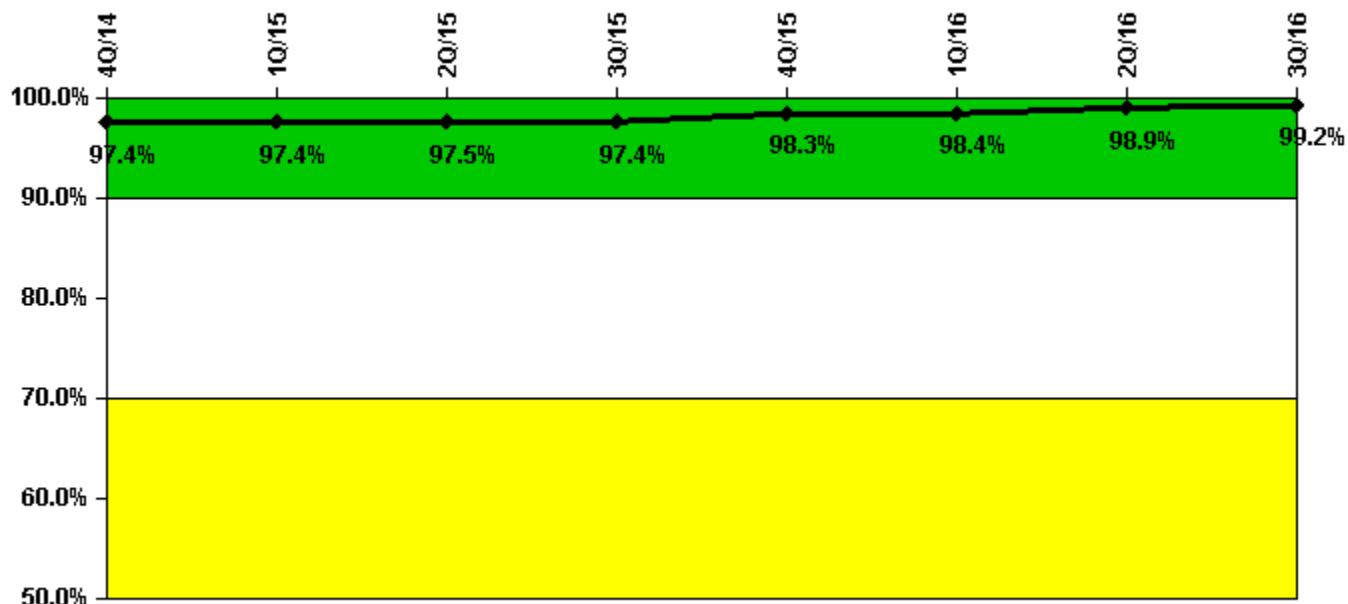
Thresholds: White > 50.0 Yellow > 100.0

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	0.090	0.130	0.160	0.170	0.180	0	0	0	0	0	0	0
Indicator value	0.9	1.3	1.6	1.7	1.8	0	0	0	0	0	0	0
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	0	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	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



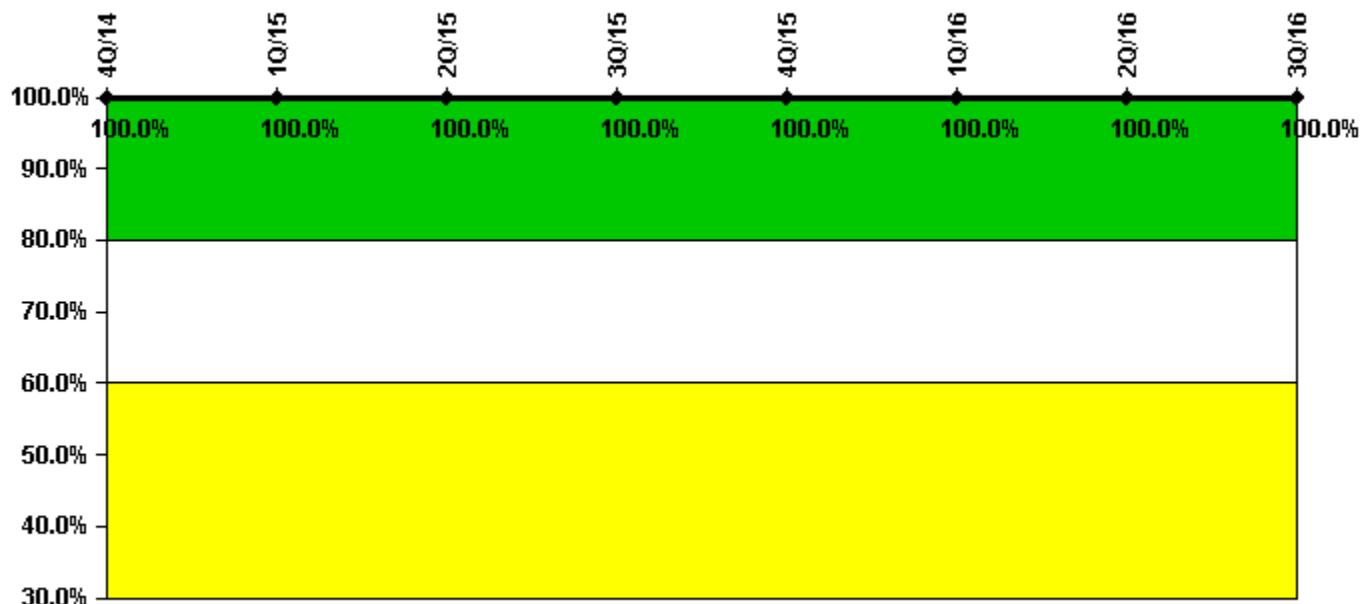
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful opportunities	47.0	9.0	75.0	44.0	60.0	42.0	30.0	74.0
Total opportunities	48.0	9.0	76.0	45.0	60.0	42.0	30.0	74.0
Indicator value	97.4%	97.4%	97.5%	97.4%	98.3%	98.4%	98.9%	99.2%

Licensee Comments: none

ERO Drill Participation



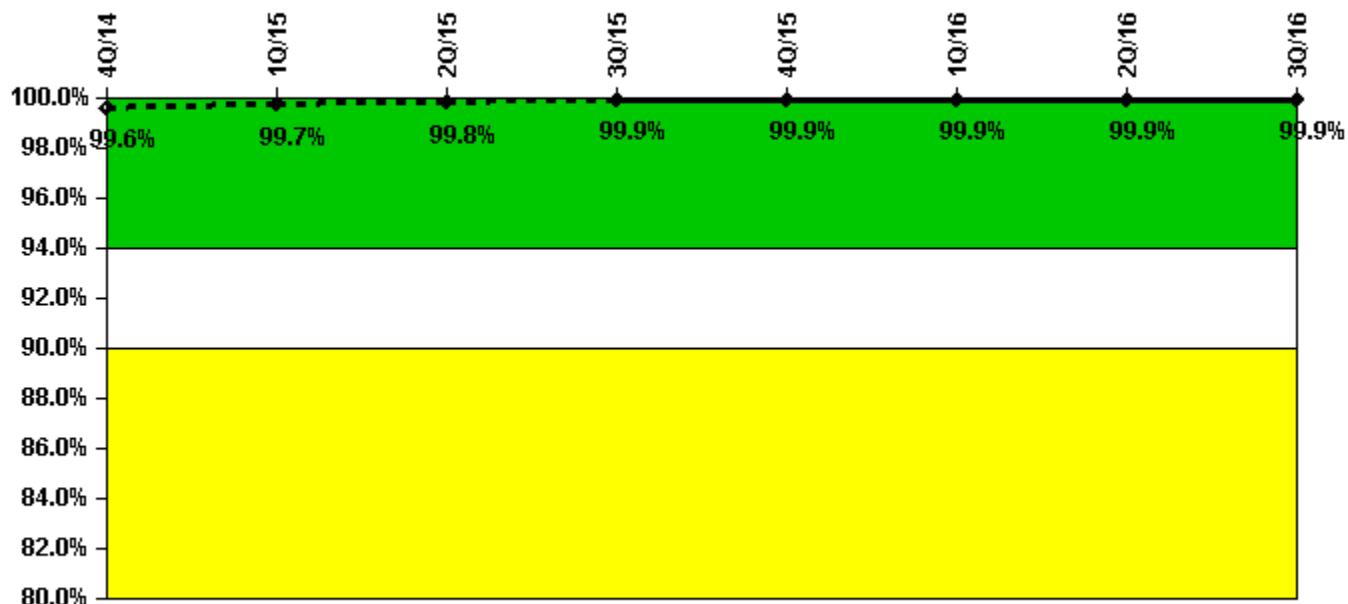
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Participating Key personnel	55.0	49.0	46.0	46.0	46.0	52.0	55.0	51.0
Total Key personnel	55.0	49.0	46.0	46.0	46.0	52.0	55.0	51.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



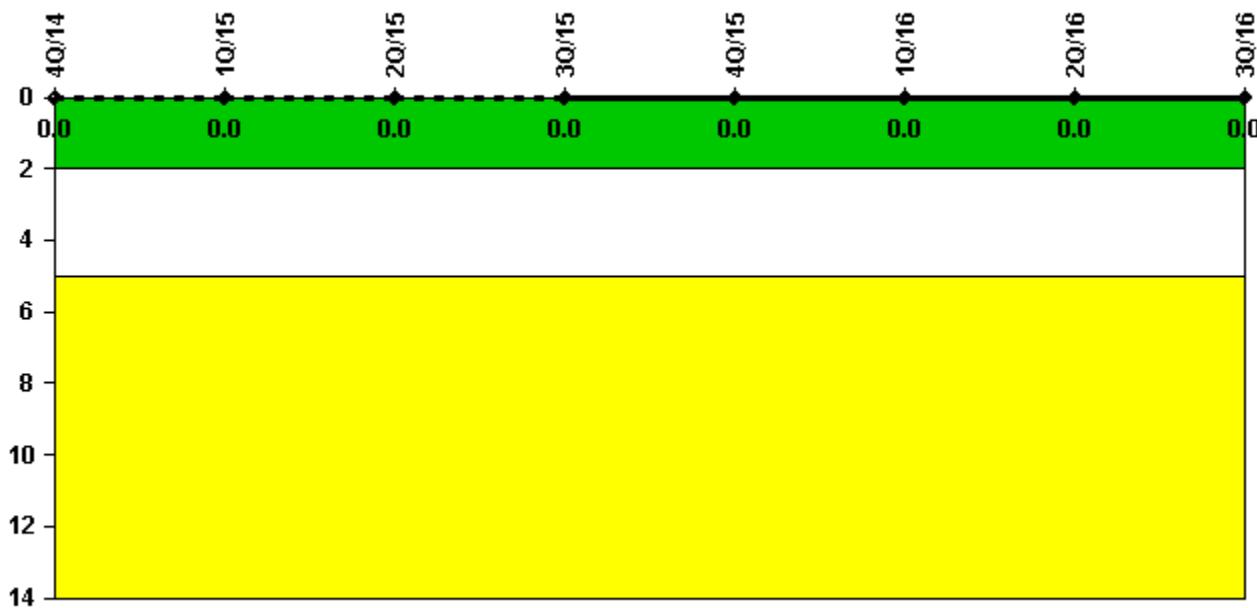
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful siren-tests	947	947	948	949	948	949	948	946
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.6%	99.7%	99.8%	99.9%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



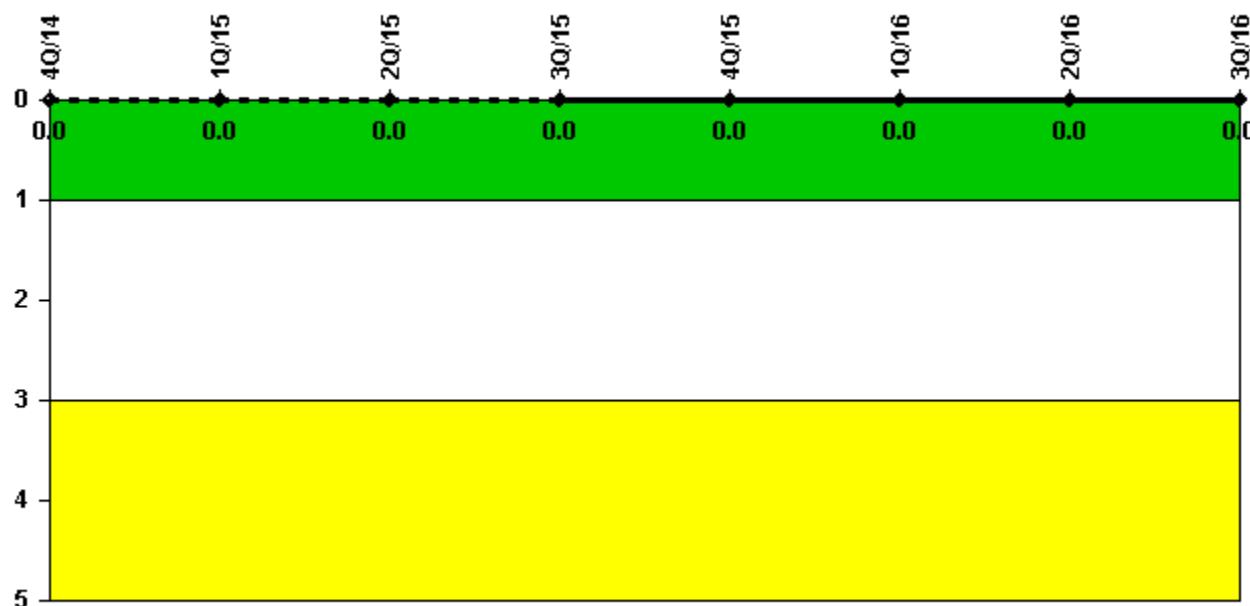
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

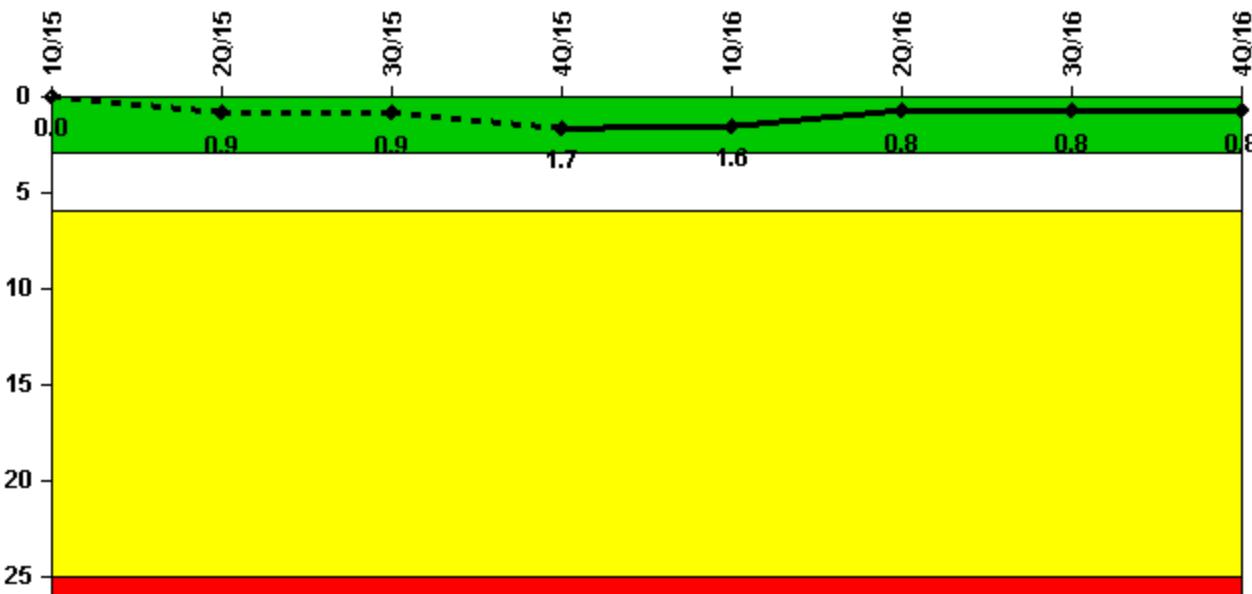
Calvert Cliffs 2

4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



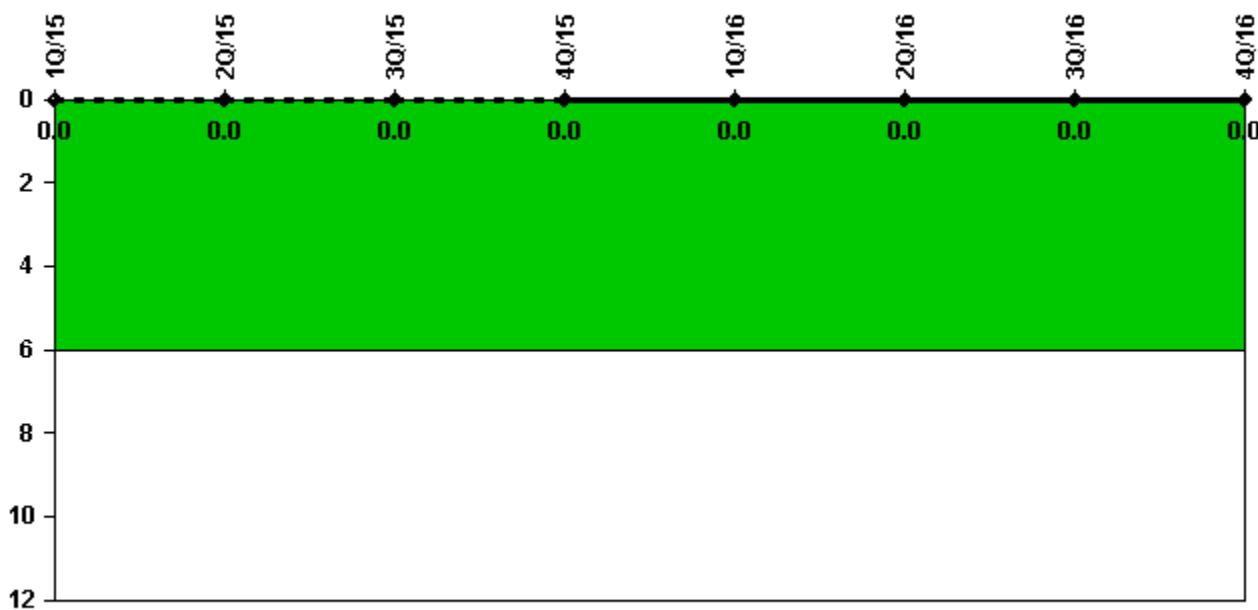
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	1.0
Critical hours	1593.3	2137.8	2208.0	2095.1	2183.0	2184.0	2208.0	2183.8
Indicator value	0	0.9	0.9	1.7	1.6	0.8	0.8	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



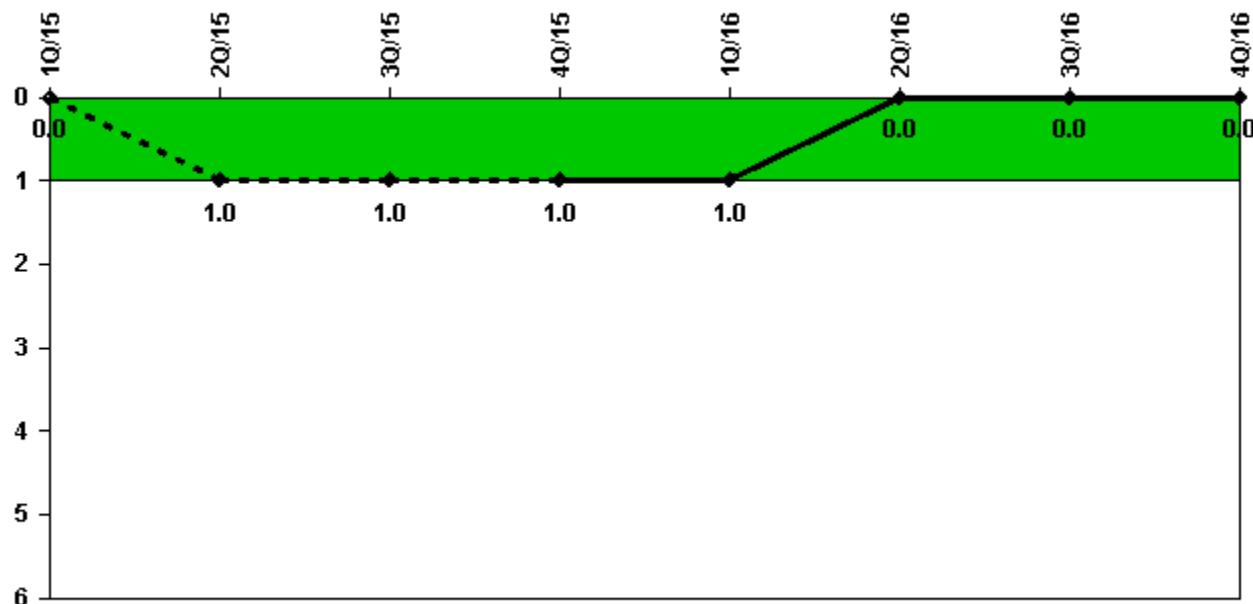
Thresholds: White > 6.0

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	1593.3	2137.8	2208.0	2095.1	2183.0	2184.0	2208.0	2183.8
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



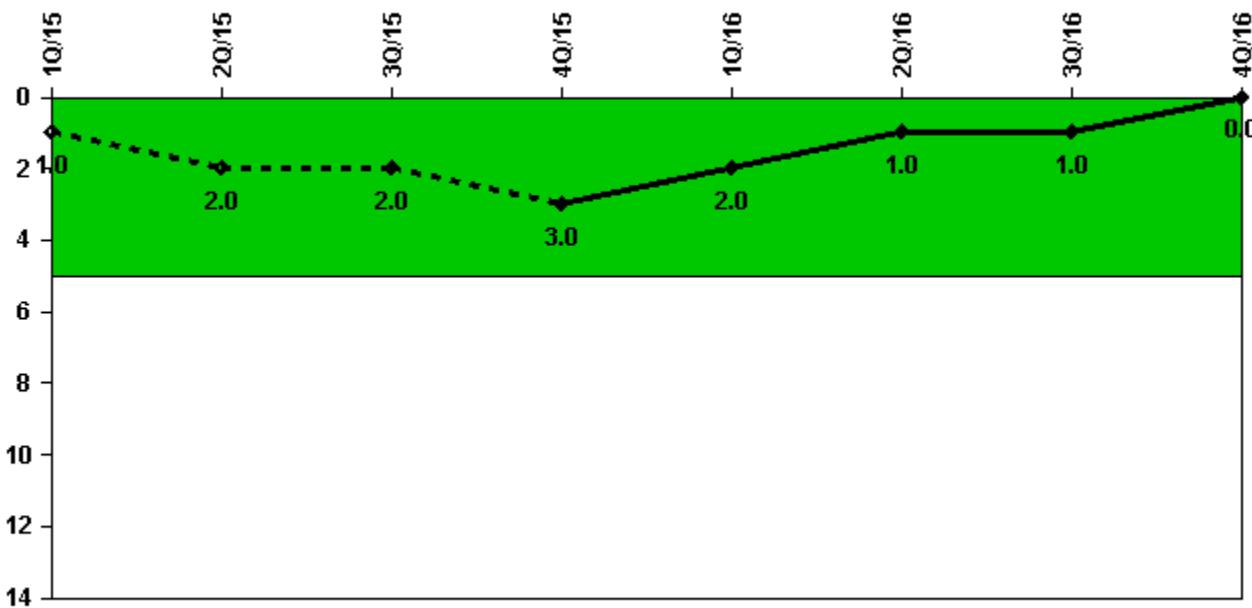
Thresholds: White > 1.0

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	1.0	0	0	0	0	0	0
Indicator value	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

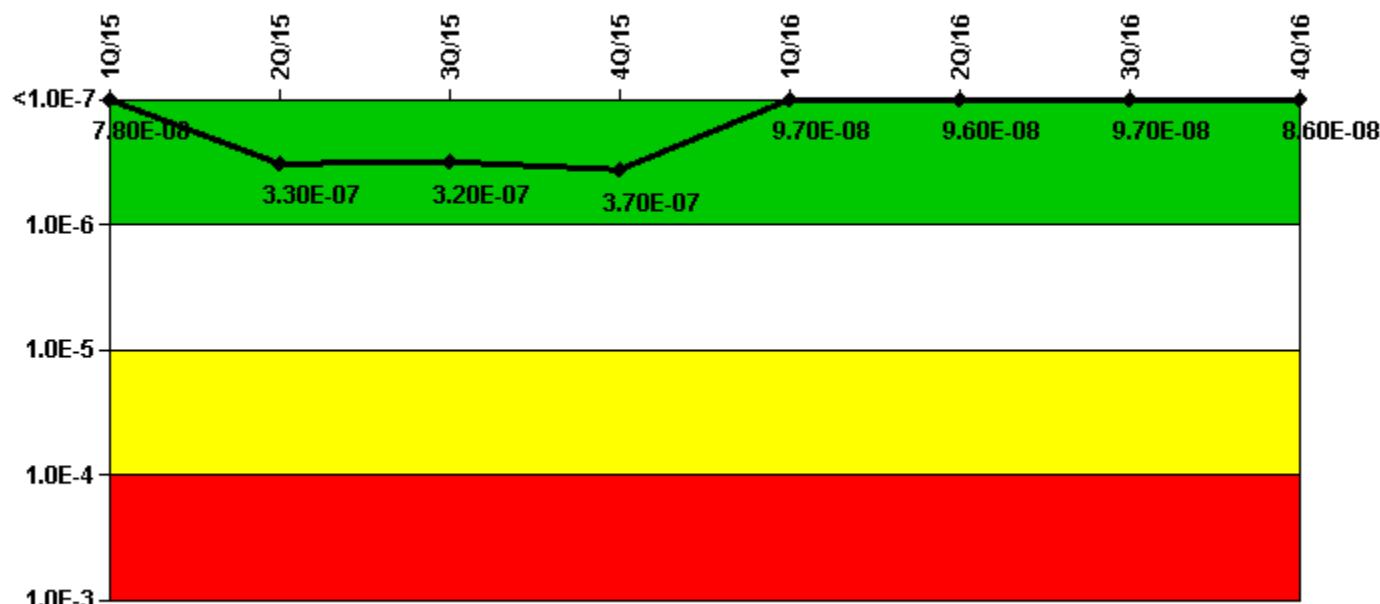
Safety System Functional Failures (PWR)	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Safety System Functional Failures	1	1	0	1	0	0	0	0
Indicator value	1	2	2	3	2	1	1	0

Licensee Comments:

2Q/15: 6/5/2015: LER 318/2015-002-00

1Q/15: 3/22/2015: LER 2015-001-00 05000317/05000318

Mitigating Systems Performance Index, Emergency AC Power System



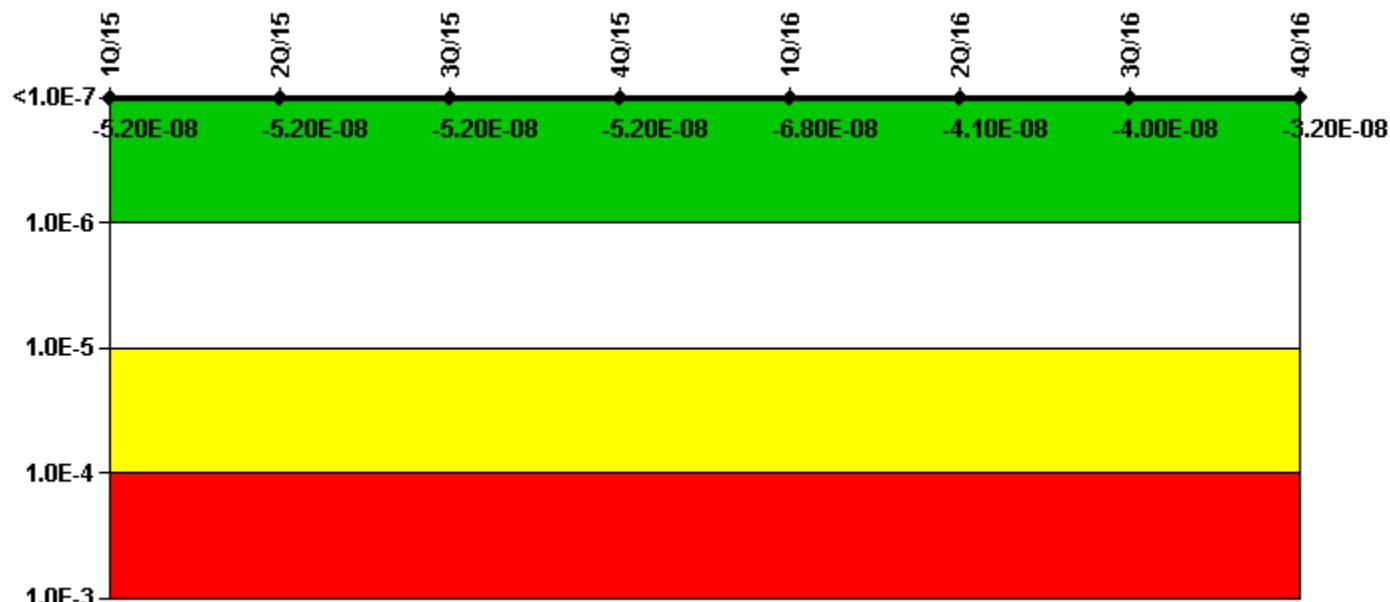
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-9.69E-11	6.56E-10	6.56E-10	5.93E-08	8.00E-09	5.97E-09	5.64E-09	-4.09E-09
URI (Δ CDF)	7.77E-08	3.25E-07	3.23E-07	3.14E-07	8.91E-08	8.98E-08	9.15E-08	8.99E-08
PLE	NO							
Indicator value	7.80E-08	3.30E-07	3.20E-07	3.70E-07	9.70E-08	9.60E-08	9.70E-08	8.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



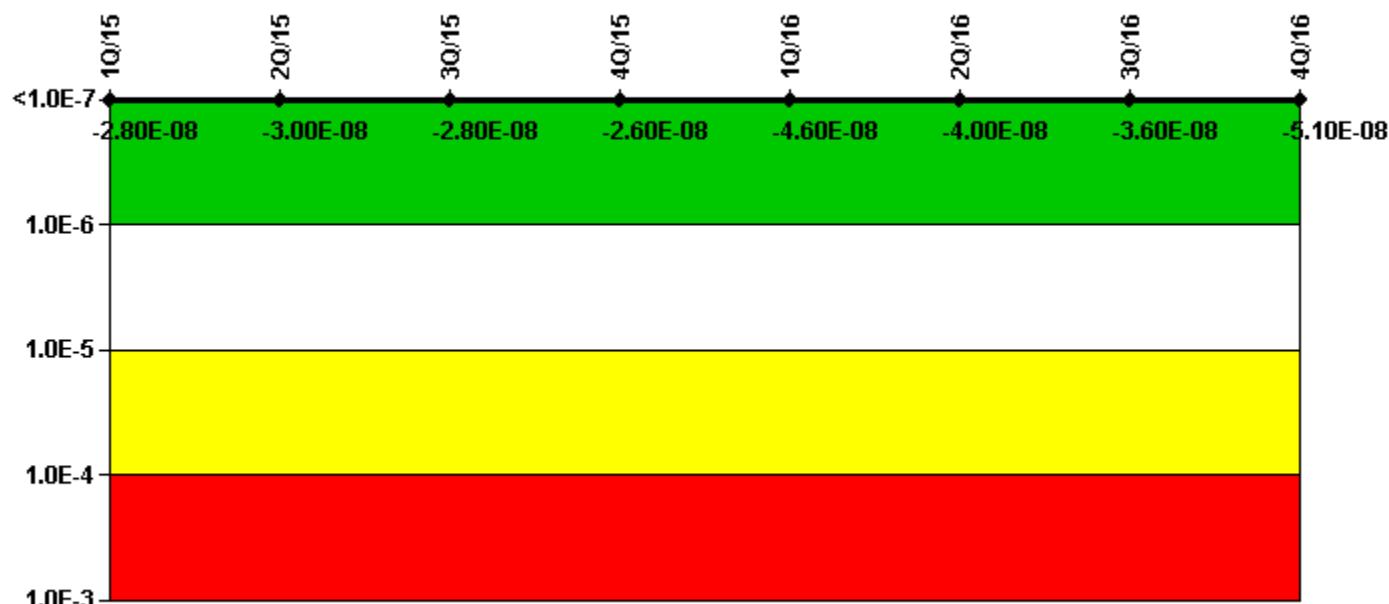
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-5.89E-09	-5.54E-09	-5.54E-09	-6.18E-09	-2.67E-08	1.55E-09	2.16E-09	9.05E-09
URI (Δ CDF)	-4.62E-08	-4.62E-08	-4.64E-08	-4.62E-08	-4.13E-08	-4.27E-08	-4.20E-08	-4.13E-08
PLE	NO							
Indicator value	-5.20E-08	-5.20E-08	-5.20E-08	-5.20E-08	-6.80E-08	-4.10E-08	-4.00E-08	-3.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



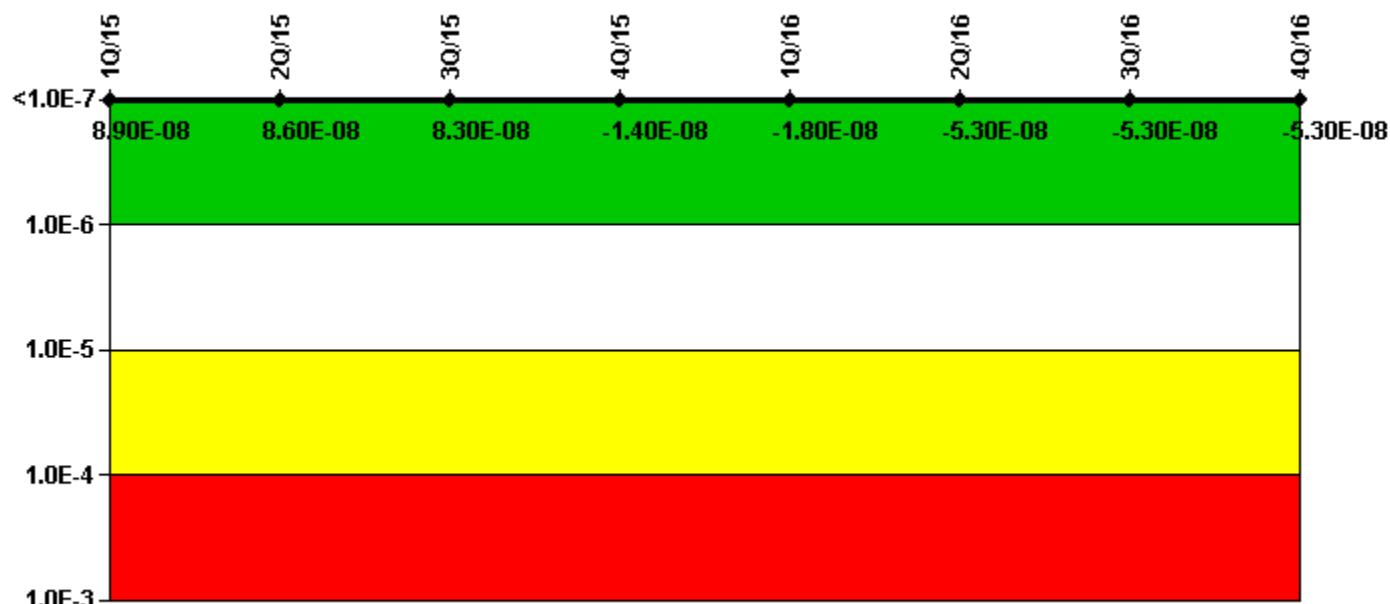
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-3.55E-09	-5.15E-09	-3.03E-09	-1.02E-09	-8.56E-09	-1.89E-09	2.72E-09	-1.20E-08
URI (Δ CDF)	-2.40E-08	-2.51E-08	-2.51E-08	-2.51E-08	-3.71E-08	-3.78E-08	-3.88E-08	-3.86E-08
PLE	NO							
Indicator value	-2.80E-08	-3.00E-08	-2.80E-08	-2.60E-08	-4.60E-08	-4.00E-08	-3.60E-08	-5.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



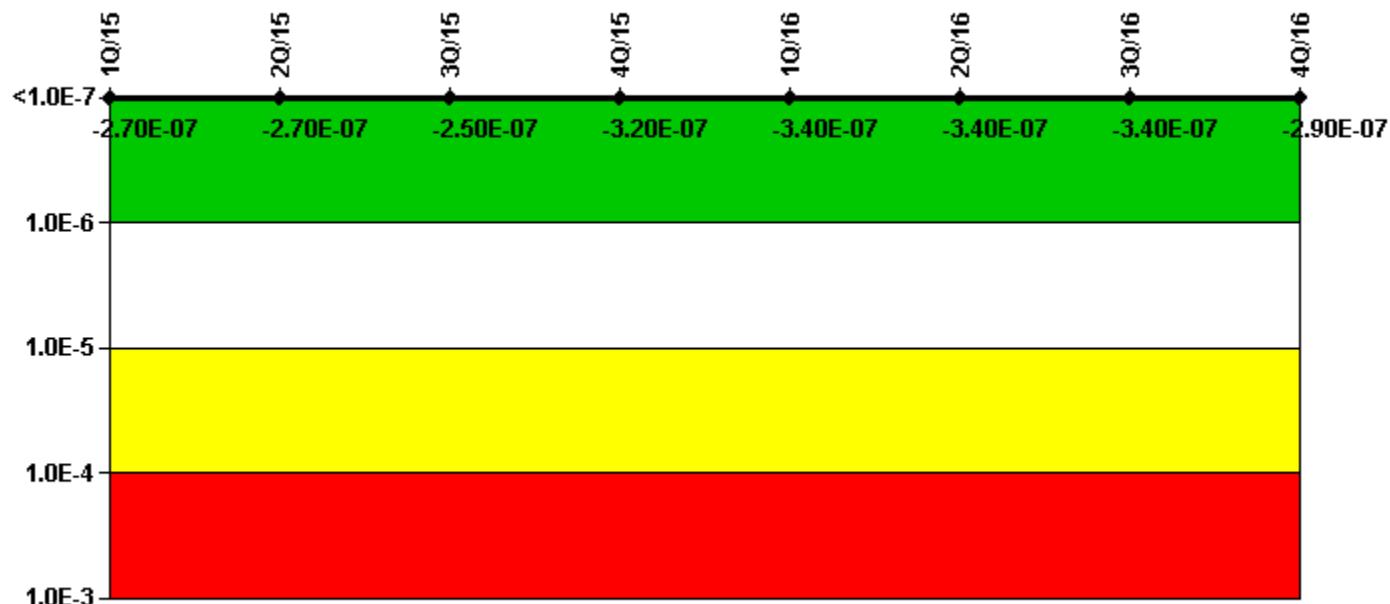
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	8.93E-08	8.65E-08	8.34E-08	-8.96E-09	-1.31E-08	-4.82E-08	-4.82E-08	-4.82E-08
URI (Δ CDF)	-4.83E-10	-3.33E-10	-4.45E-10	-4.65E-09	-4.78E-09	-5.03E-09	-4.92E-09	-4.92E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.90E-08	8.60E-08	8.30E-08	-1.40E-08	-1.80E-08	-5.30E-08	-5.30E-08	-5.30E-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/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-4.91E-08	-4.25E-08	-2.91E-08	-1.00E-07	-8.91E-08	-8.97E-08	-9.03E-08	-4.53E-08
URI (Δ CDF)	-2.24E-07	-2.24E-07	-2.23E-07	-2.23E-07	-2.50E-07	-2.50E-07	-2.50E-07	-2.50E-07
PLE	NO							
Indicator value	-2.70E-07	-2.70E-07	-2.50E-07	-3.20E-07	-3.40E-07	-3.40E-07	-3.40E-07	-2.90E-07

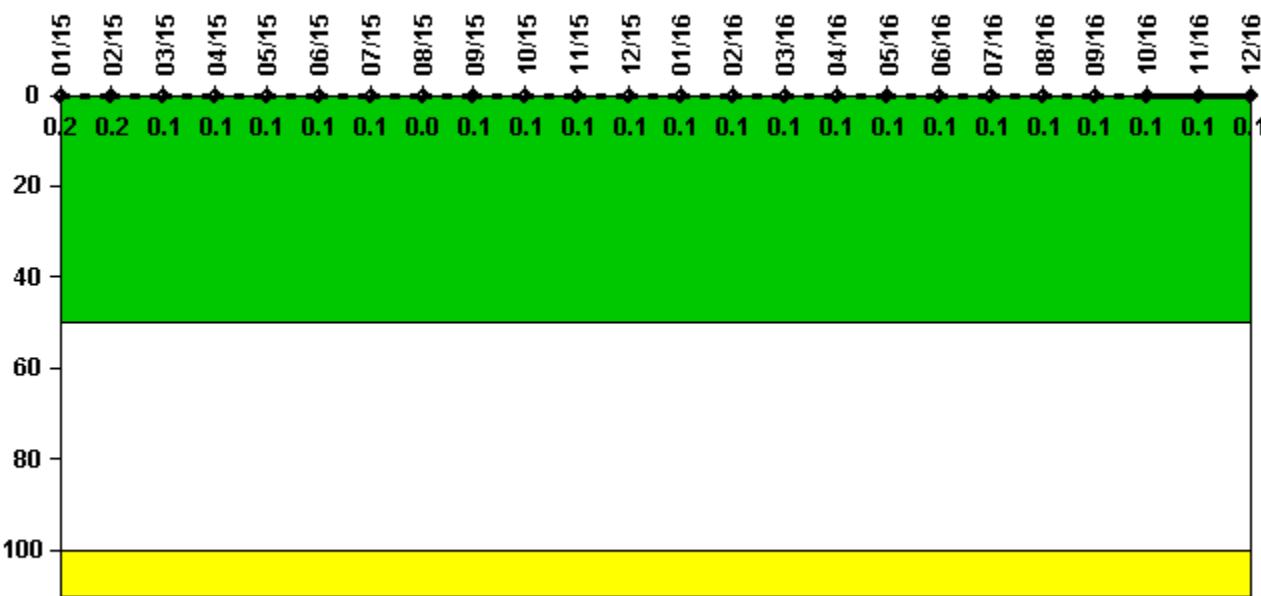
Licensee Comments:

3Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

2Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

1Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

Reactor Coolant System Activity



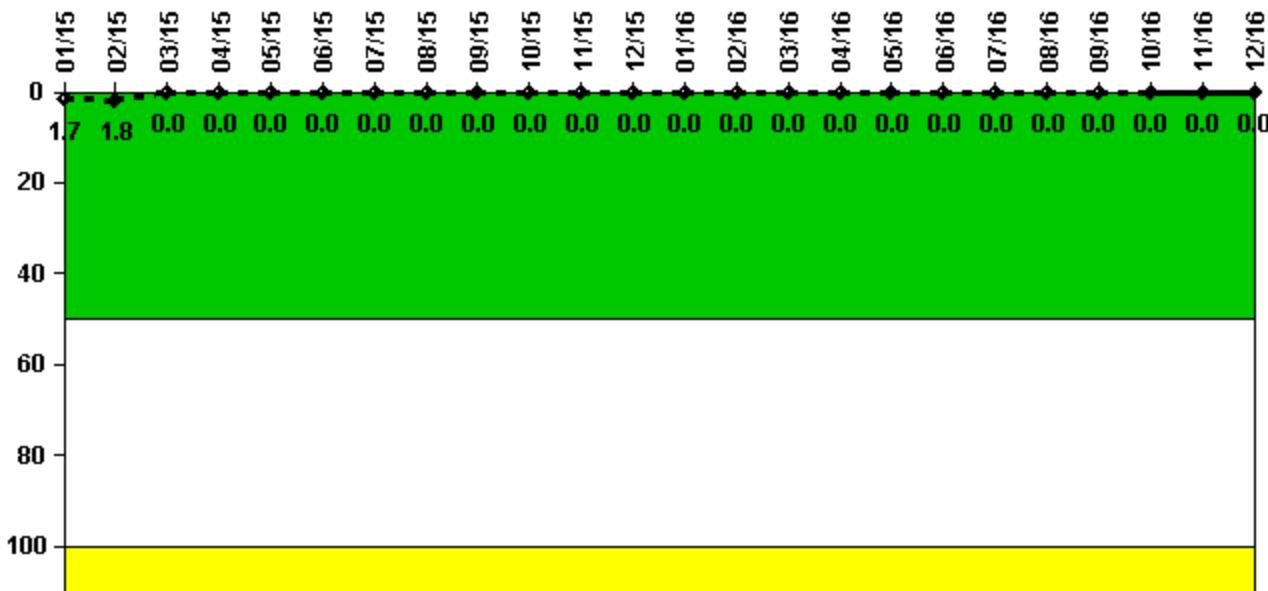
Thresholds: White > 50.0 Yellow > 100.0

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	0.000903	0.001170	0.000279	0.000511	0.000288	0.000310	0.000301	0.000249	0.000332	0.000394	0.000406	0.000431
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0	0.1	0.1	0.1	0.1
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	0.000415	0.000444	0.000417	0.000303	0.000322	0.000484	0.000531	0.000540	0.000535	0.000598	0.000592	0.000369
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



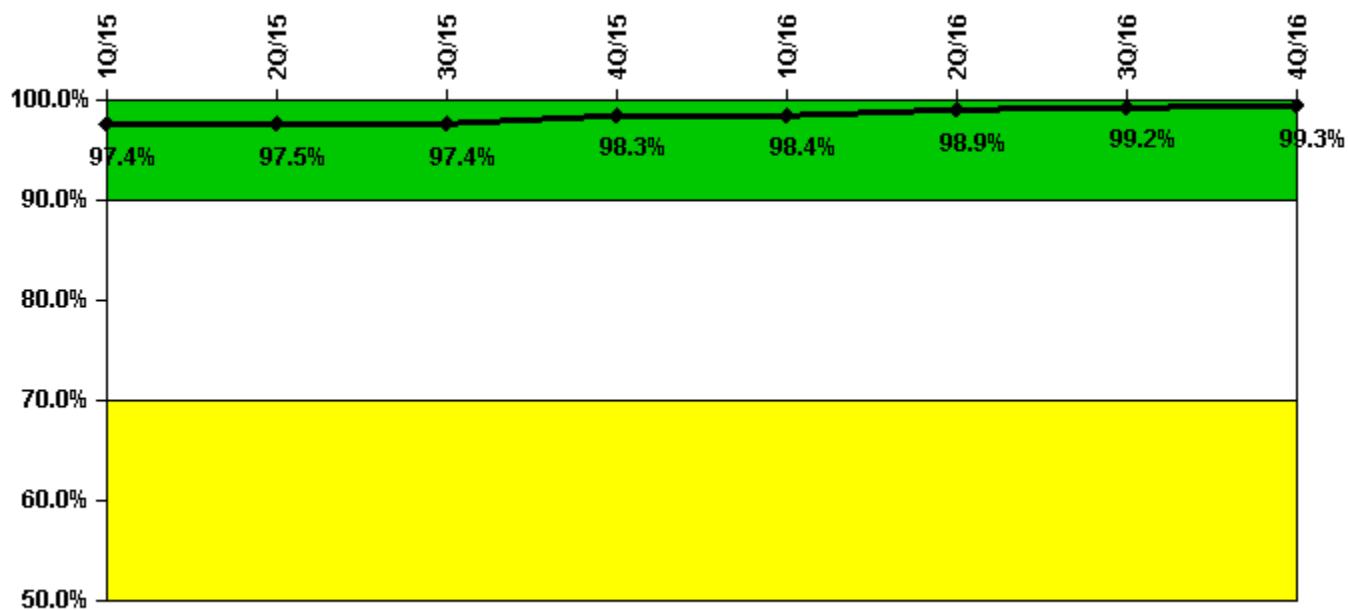
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.170	0.180	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	1.7	1.8	0	0	0	0	0	0	0	0	0	0
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	0	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	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



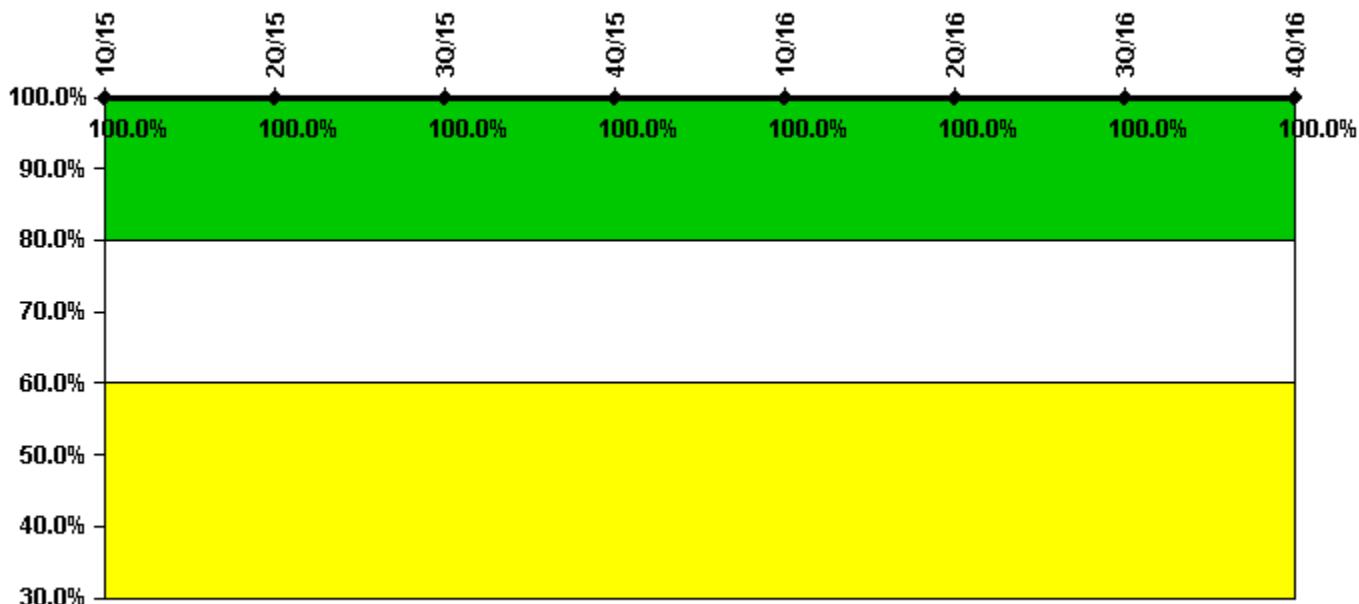
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful opportunities	9.0	75.0	44.0	60.0	42.0	30.0	74.0	71.0
Total opportunities	9.0	76.0	45.0	60.0	42.0	30.0	74.0	72.0
Indicator value	97.4%	97.5%	97.4%	98.3%	98.4%	98.9%	99.2%	99.3%

Licensee Comments: none

ERO Drill Participation



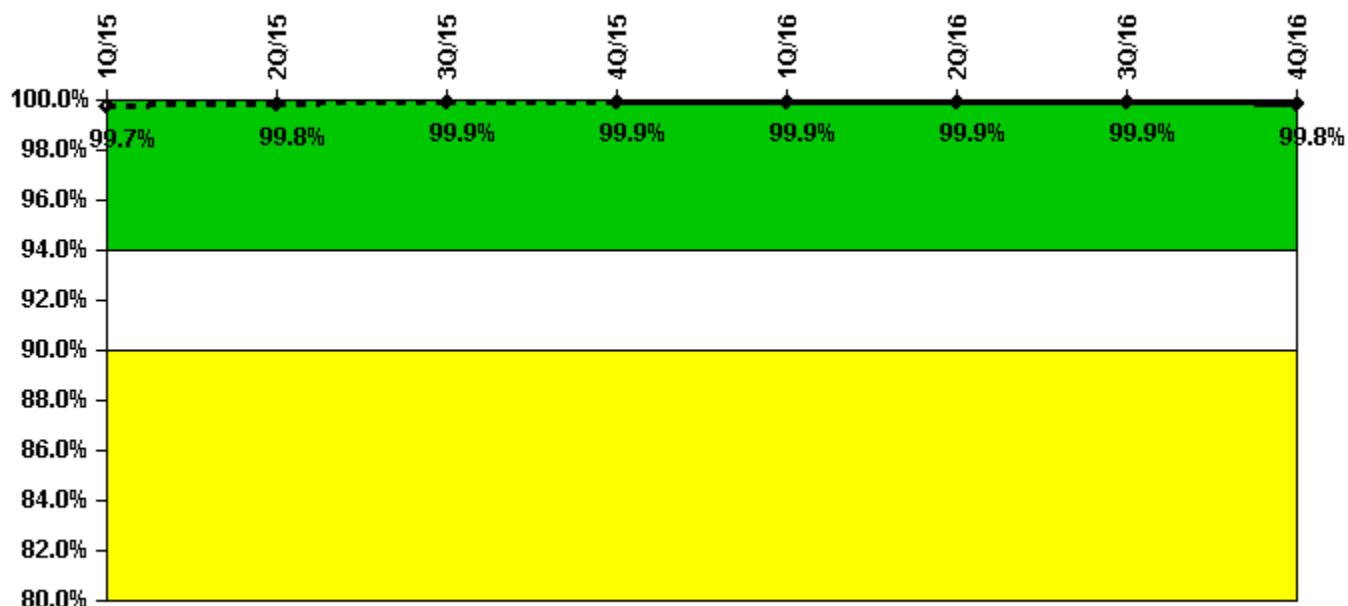
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Participating Key personnel	49.0	46.0	46.0	46.0	52.0	55.0	51.0	52.0
Total Key personnel	49.0	46.0	46.0	46.0	52.0	55.0	51.0	52.0
Indicator value	100.0%							

Licensee Comments: none

Alert & Notification System



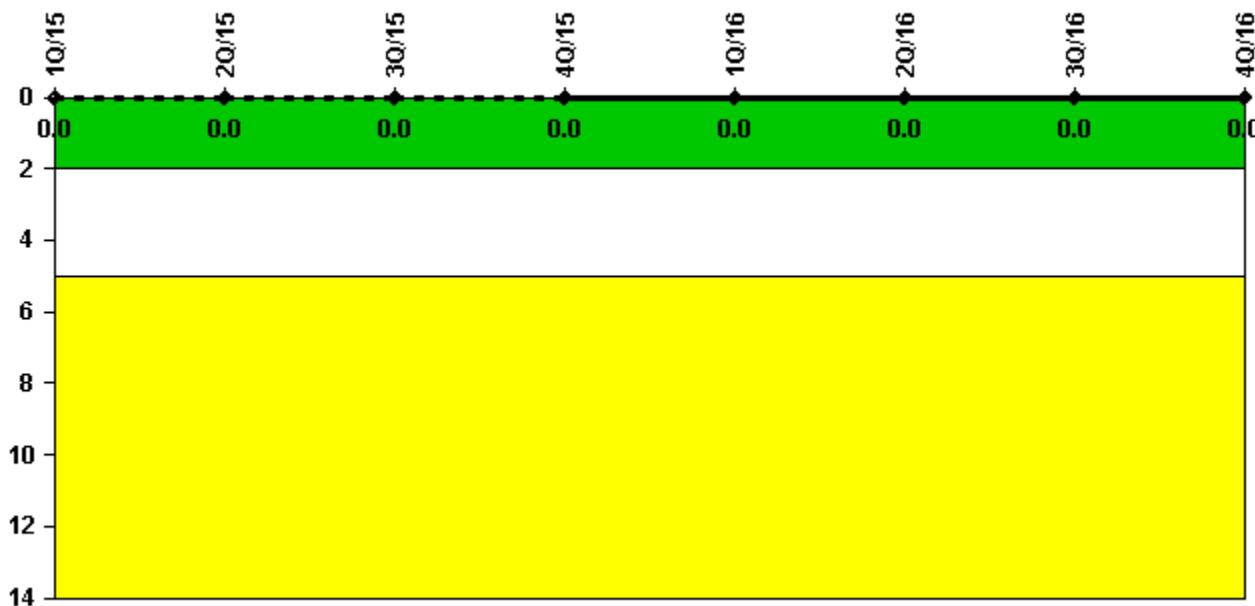
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful siren-tests	947	948	949	948	949	948	946	945
Total sirens-tests	949	949	949	949	949	949	949	949
Indicator value	99.7%	99.8%	99.9%	99.9%	99.9%	99.9%	99.9%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



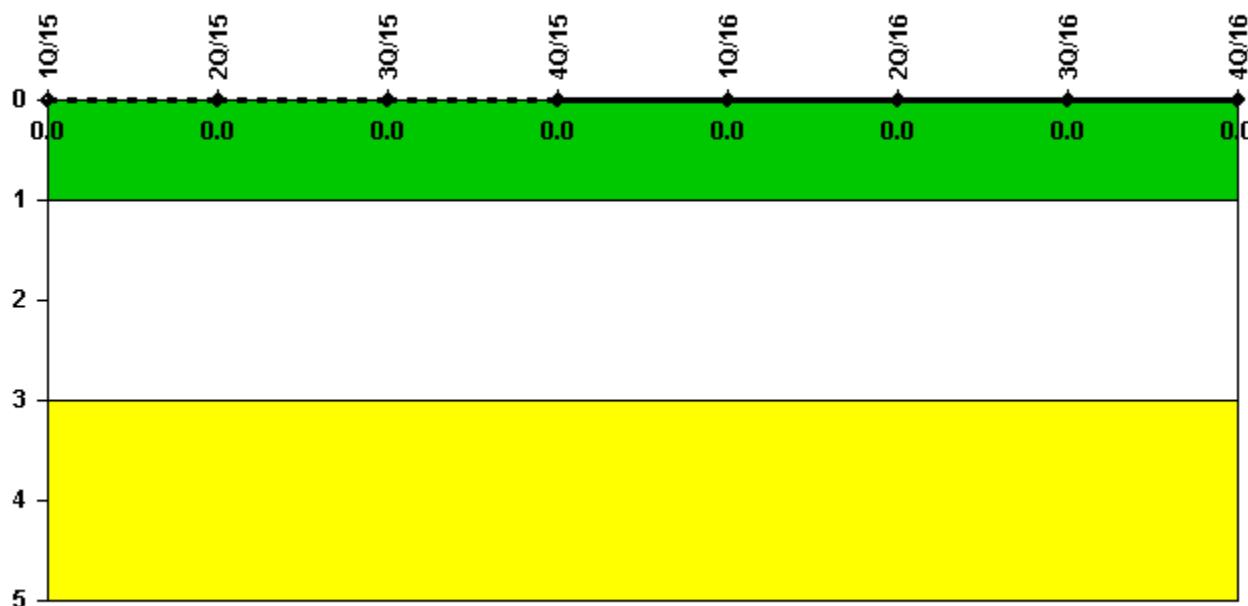
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/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 > Calvert Cliffs 2 > Quarterly Performance Indicators

Calvert Cliffs 2 – Quarterly Performance Indicators

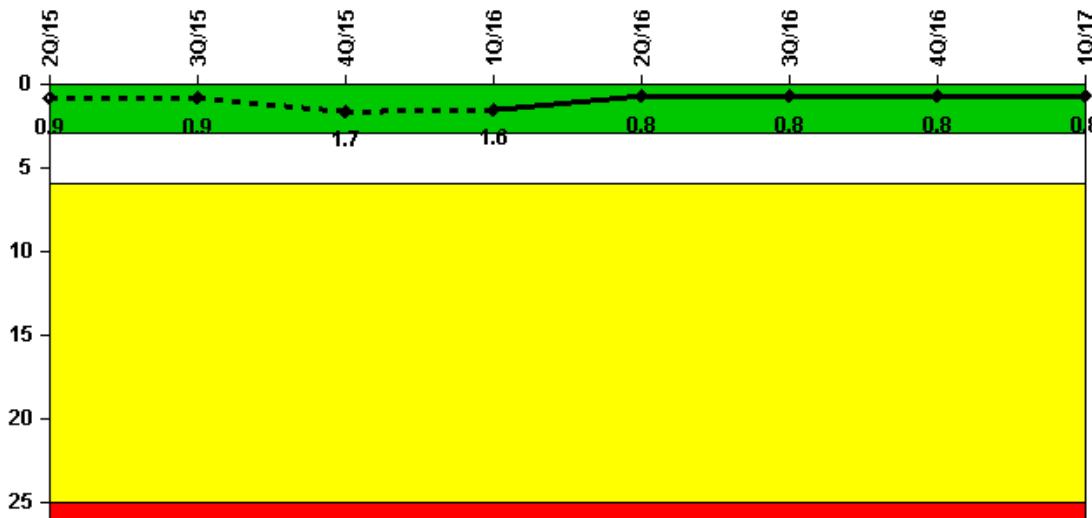
1Q/2017 Performance Indicators

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

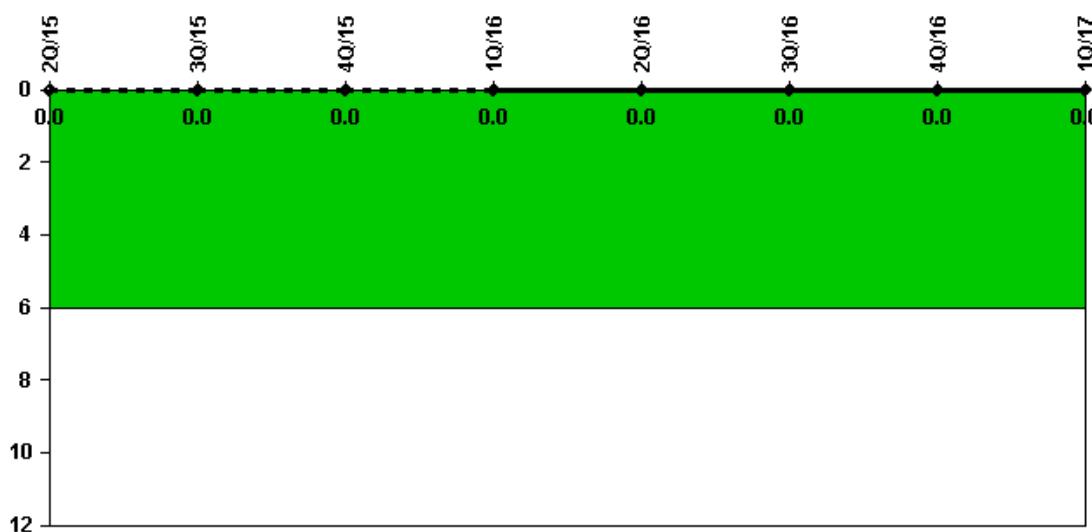
Notes

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	1.0	0	0	0	1.0
Critical hours	2137.8	2208.0	2095.1	2183.0	2184.0	2208.0	2183.8	1673.2

Indicator value 0.9 0.9 1.7 1.6 0.8 0.8 0.8 0.8



Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

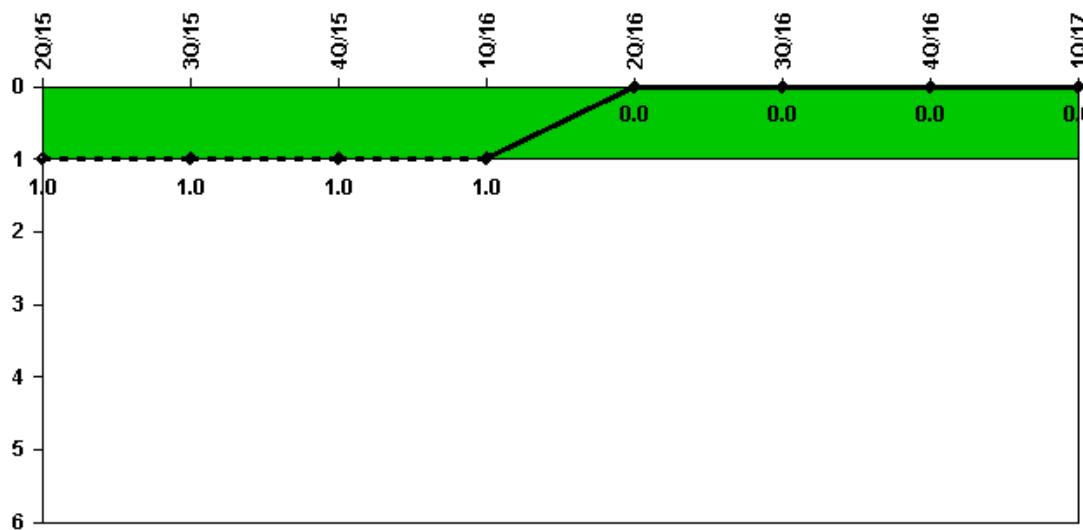
Notes

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	2137.8	2208.0	2095.1	2183.0	2184.0	2208.0	2183.8	1673.2

Indicator value	0	0	0	0	0	0	0	0
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Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

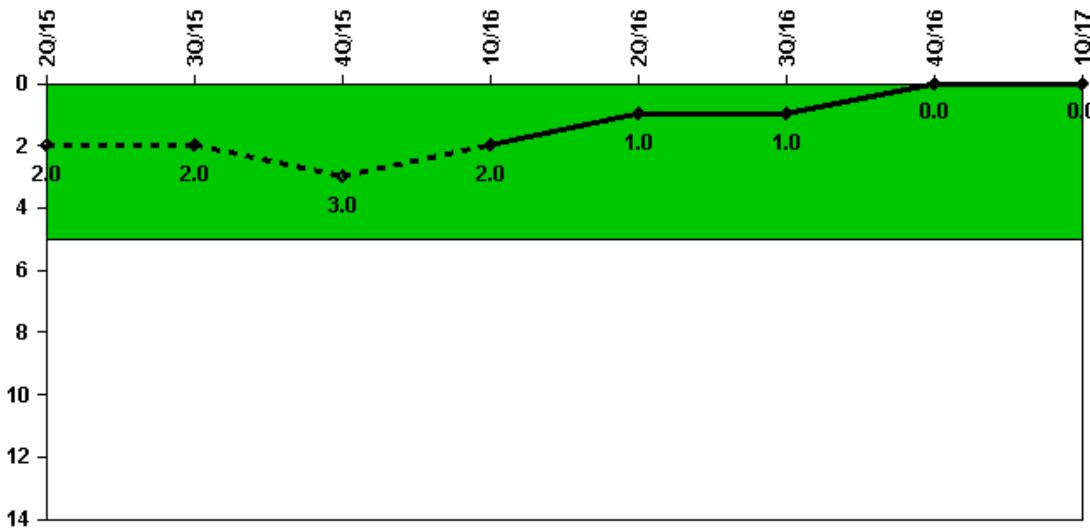
Notes

Unplanned Scrams with Complications	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Scrams with complications	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
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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	1	0	1	0	0	0	0	0

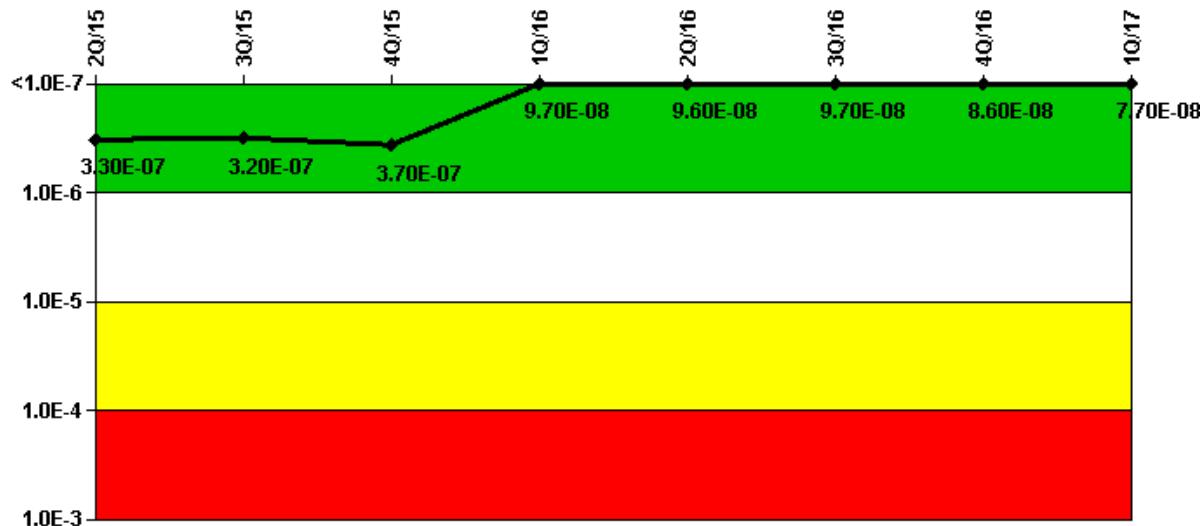
Indicator value	2	2	3	2	1	1	0	0
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Licensee Comments:

2Q/15: 6/5/2015: LER 318/2015-002-00

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

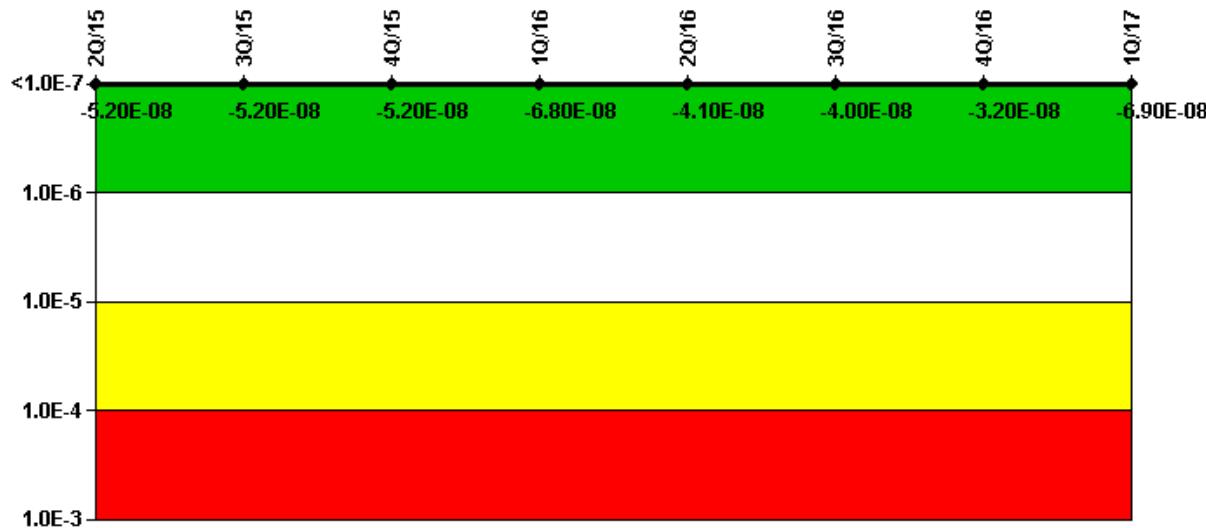
Notes

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)	6.56E-10	6.56E-10	5.93E-08	8.00E-09	5.97E-09	5.64E-09	-4.09E-09	-6.64E-09
URI (Δ CDF)	3.25E-07	3.23E-07	3.14E-07	8.91E-08	8.98E-08	9.15E-08	8.99E-08	8.34E-08
PLE	NO	NO						
Indicator value	3.30E-07	3.20E-07	3.70E-07	9.70E-08	9.60E-08	9.70E-08	8.60E-08	7.70E-08

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Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

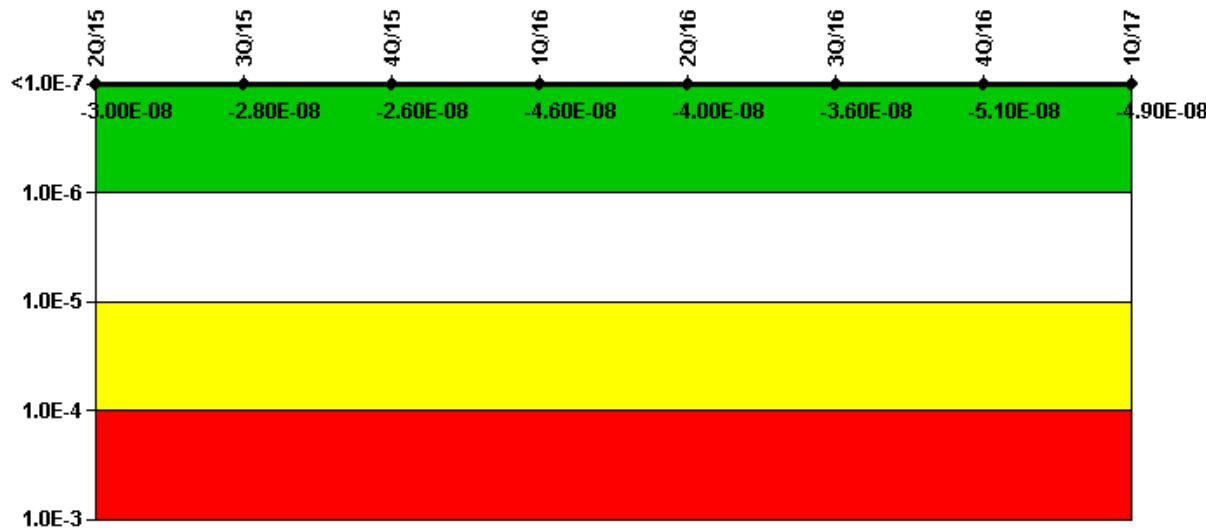
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes**Mitigating Systems Performance Index, High Pressure Injection System**

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (Δ CDF)	-5.54E-09	-5.54E-09	-6.18E-09	-2.67E-08	1.55E-09	2.16E-09	9.05E-09	-2.41E-08
URI (Δ CDF)	-4.62E-08	-4.64E-08	-4.62E-08	-4.13E-08	-4.27E-08	-4.20E-08	-4.13E-08	-4.45E-08
PLE	NO							
Indicator value	-5.20E-08	-5.20E-08	-5.20E-08	-6.80E-08	-4.10E-08	-4.00E-08	-3.20E-08	-6.90E-08

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Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

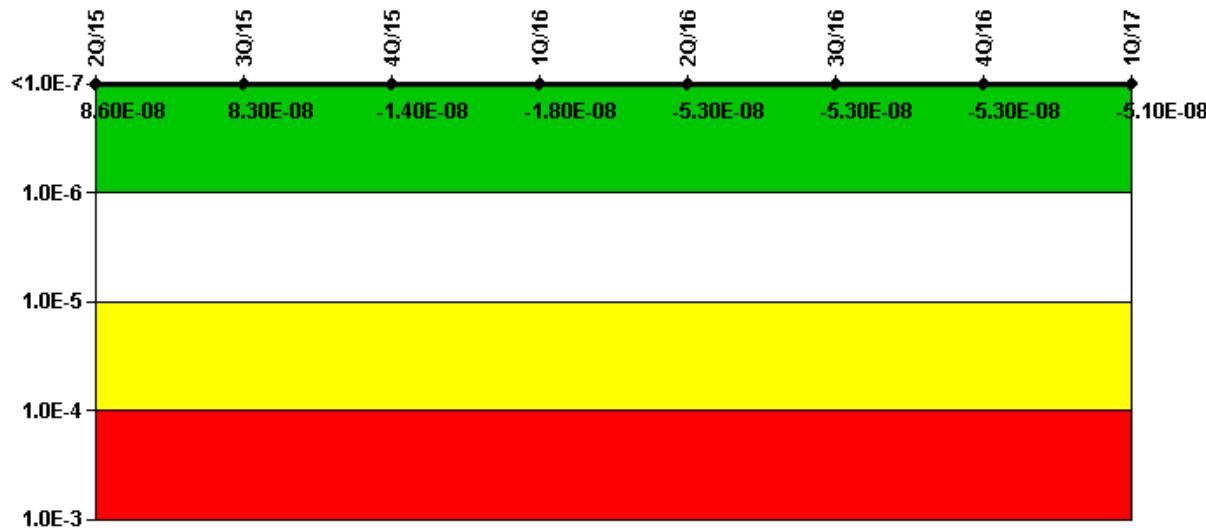
Notes**Mitigating Systems Performance Index, Heat Removal System**

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (Δ CDF)	-5.15E-09	-3.03E-09	-1.02E-09	-8.56E-09	-1.89E-09	2.72E-09	-1.20E-08	-9.91E-09
URI (Δ CDF)	-2.51E-08	-2.51E-08	-2.51E-08	-3.71E-08	-3.78E-08	-3.88E-08	-3.86E-08	-3.95E-08
PLE	NO							
Indicator value	-3.00E-08	-2.80E-08	-2.60E-08	-4.60E-08	-4.00E-08	-3.60E-08	-5.10E-08	-4.90E-08

TOP

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/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (Δ CDF)	8.65E-08	8.34E-08	-8.96E-09	-1.31E-08	-4.82E-08	-4.82E-08	-4.82E-08	-4.54E-08
URI (Δ CDF)	-3.33E-10	-4.45E-10	-4.65E-09	-4.78E-09	-5.03E-09	-4.92E-09	-4.92E-09	-5.56E-09
PLE	NO							
Indicator value	8.60E-08	8.30E-08	-1.40E-08	-1.80E-08	-5.30E-08	-5.30E-08	-5.30E-08	-5.10E-08

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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/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (Δ CDF)	-4.25E-08	-2.91E-08	-1.00E-07	-8.91E-08	-8.97E-08	-9.03E-08	-4.53E-08	-1.24E-08
URI (Δ CDF)	-2.24E-07	-2.23E-07	-2.23E-07	-2.50E-07	-2.50E-07	-2.50E-07	-2.50E-07	-2.49E-07
PLE	NO							
Indicator value	-2.70E-07	-2.50E-07	-3.20E-07	-3.40E-07	-3.40E-07	-3.40E-07	-2.90E-07	-2.60E-07

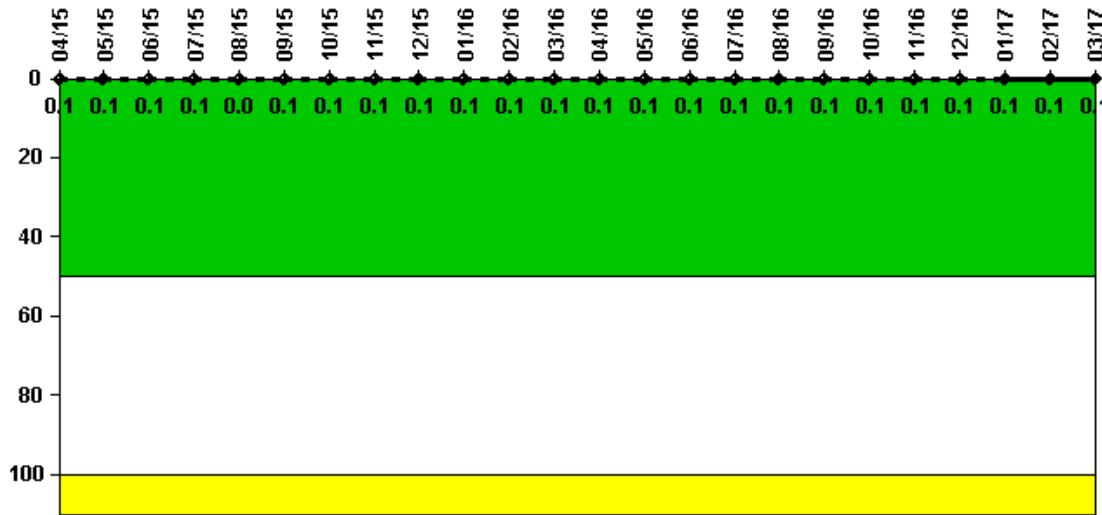
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Licensee Comments:

3Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

2Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

Reactor Coolant System Activity



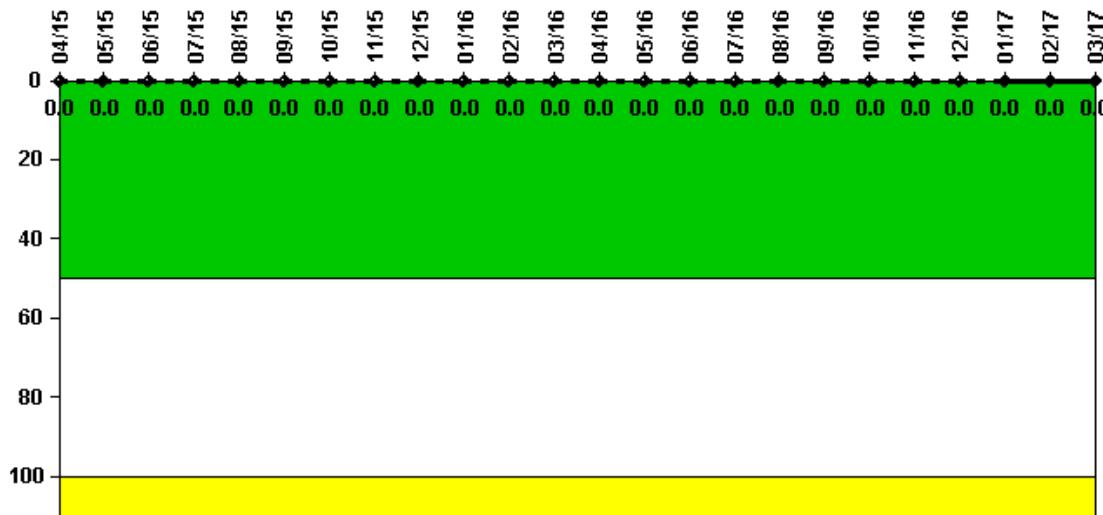
Thresholds: White > 50.0 Yellow > 100.0

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	0.000511	0.000288	0.000310	0.000301	0.000249	0.000332	0.000394	0.000406	0.000431	0.000415	0.000444	0.000417
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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	0.000303	0.000322	0.000484	0.000531	0.000540	0.000535	0.000598	0.000592	0.000369	0.000694	0.000349	0.000276
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TOP

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 0 0 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 10.0

Indicator value 0 0 0 0 0 0 0 0 0 0 0 0 0

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

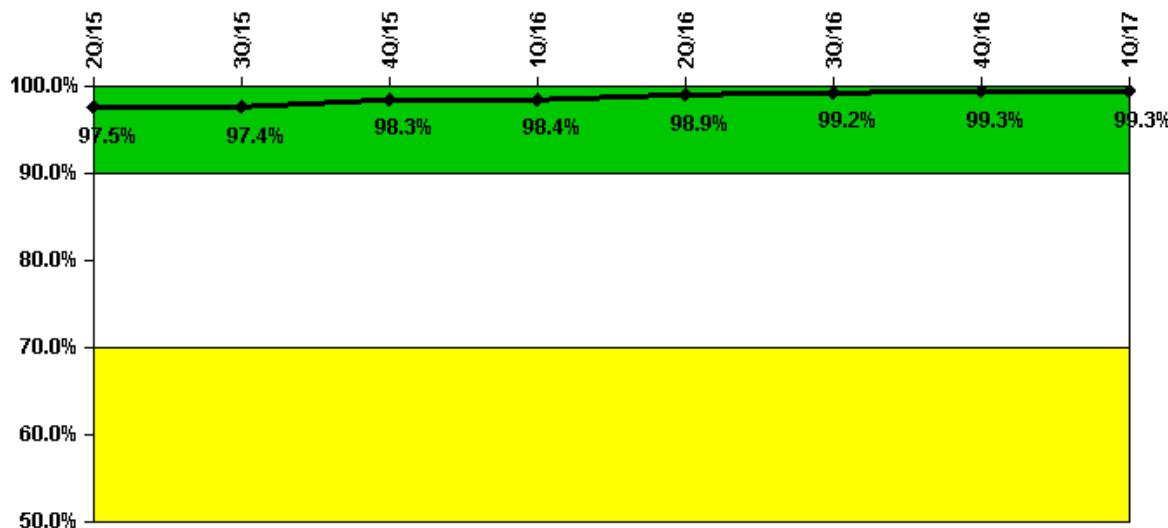
Maximum leakage 0 0 0 0 0 0 0 0 0 0 0 0 0

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 10.0

Indicator value 0 0 0 0 0 0 0 0 0 0 0 0 0

TOP

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

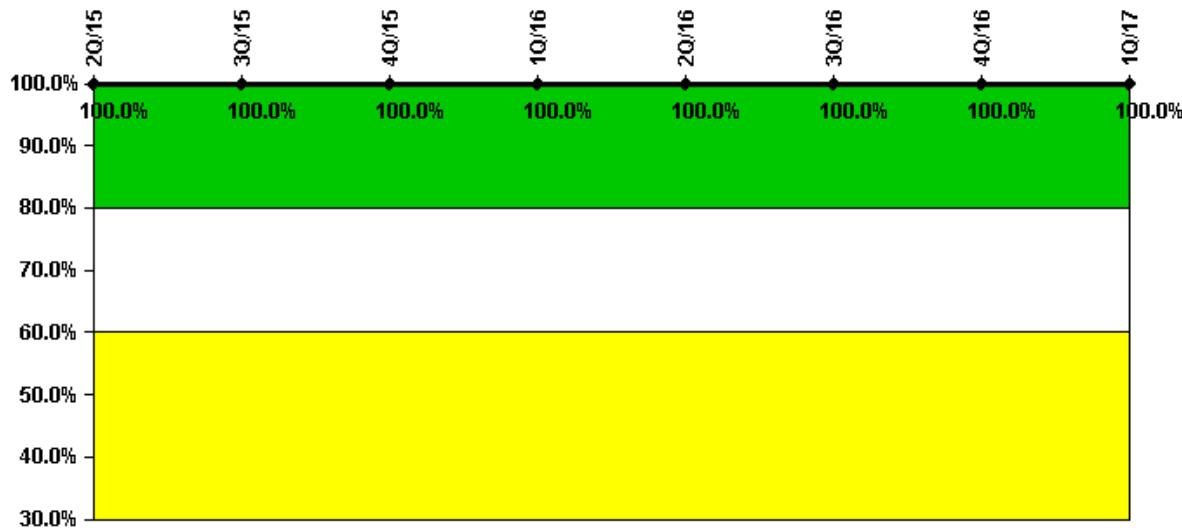
Notes

Drill/Exercise Performance	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful opportunities	75.0	44.0	60.0	42.0	30.0	74.0	71.0	8.0
Total opportunities	76.0	45.0	60.0	42.0	30.0	74.0	72.0	8.0

Indicator value 97.5% 97.4% 98.3% 98.4% 98.9% 99.2% 99.3% 99.3%

TOP

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

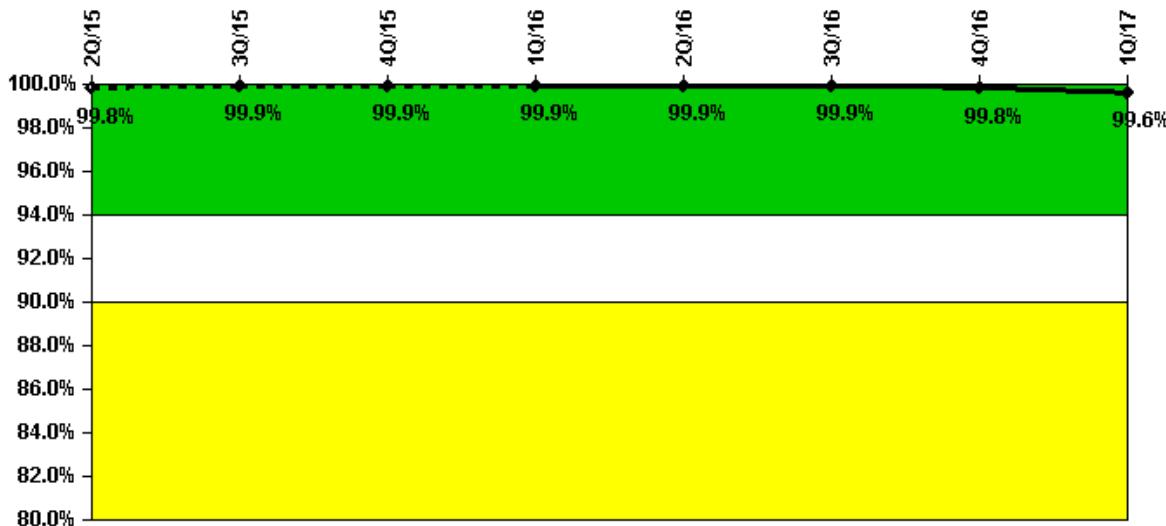
Notes

ERO Drill Participation	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Participating Key personnel	46.0	46.0	46.0	52.0	55.0	51.0	52.0	48.0
Total Key personnel	46.0	46.0	46.0	52.0	55.0	51.0	52.0	48.0

Indicator value 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%

TOP

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

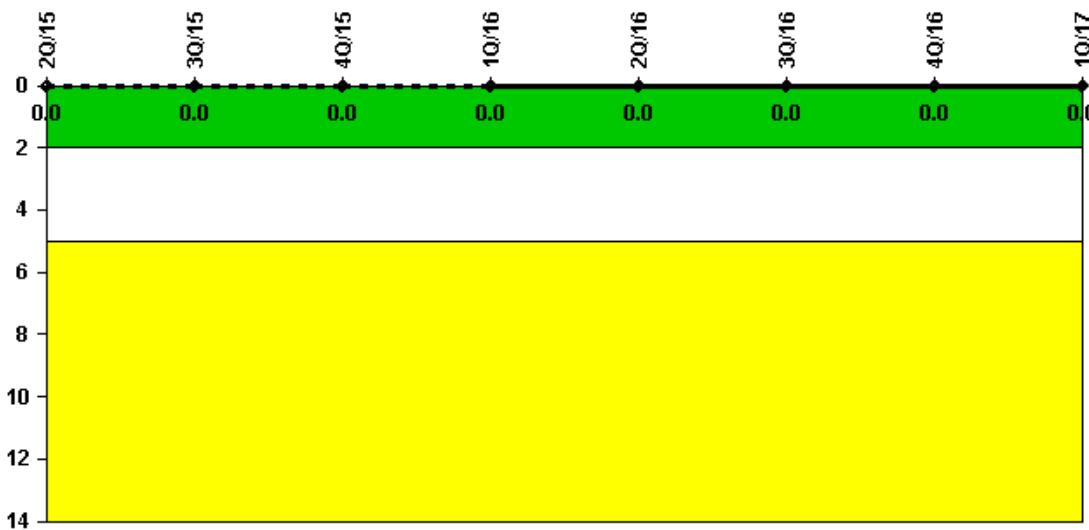
Notes**Alert & Notification System 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17**

Successful siren-tests	948	949	948	949	948	946	945	943
Total sirens-tests	949	949	949	949	949	949	949	949

Indicator value 99.8% 99.9% 99.9% 99.9% 99.9% 99.9% 99.8% 99.6%

 TOP

Licensee Comments: none

Occupational Exposure Control Effectiveness

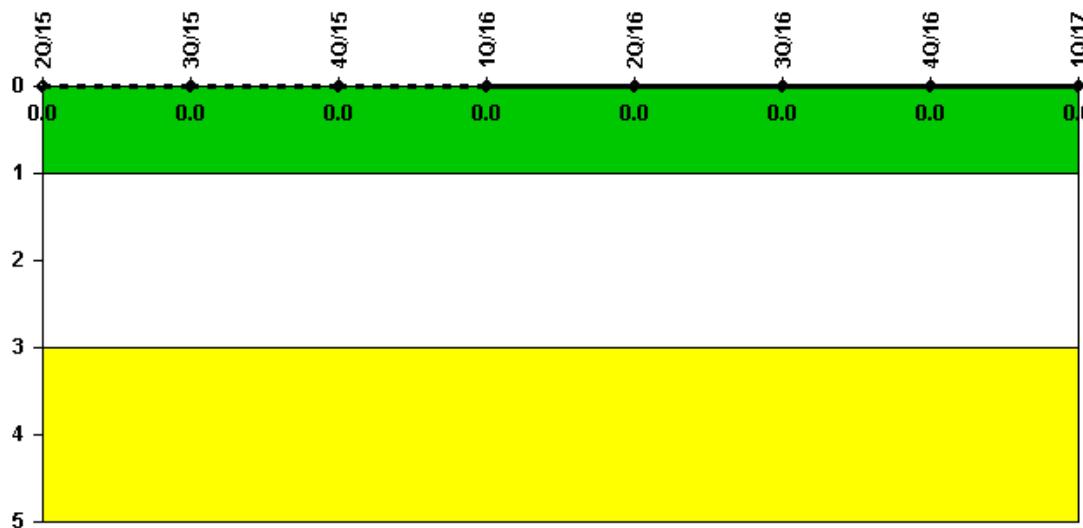
Thresholds: White > 2.0 Yellow > 5.0

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 > Calvert Cliffs 2 > Quarterly Performance Indicators

Calvert Cliffs 2 – Quarterly Performance Indicators

2Q/2017 Performance Indicators

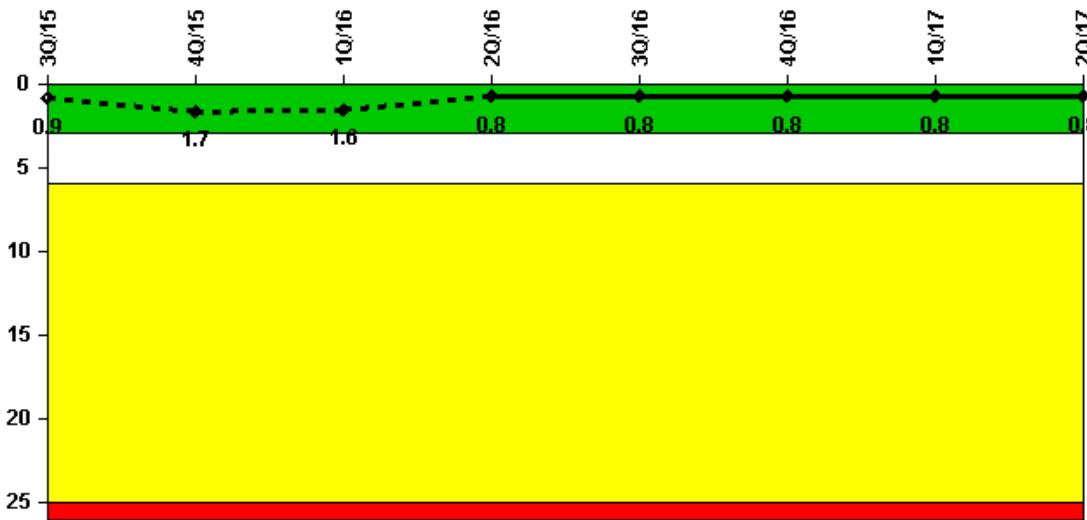
The solid trend line represents the current reporting period.

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)

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

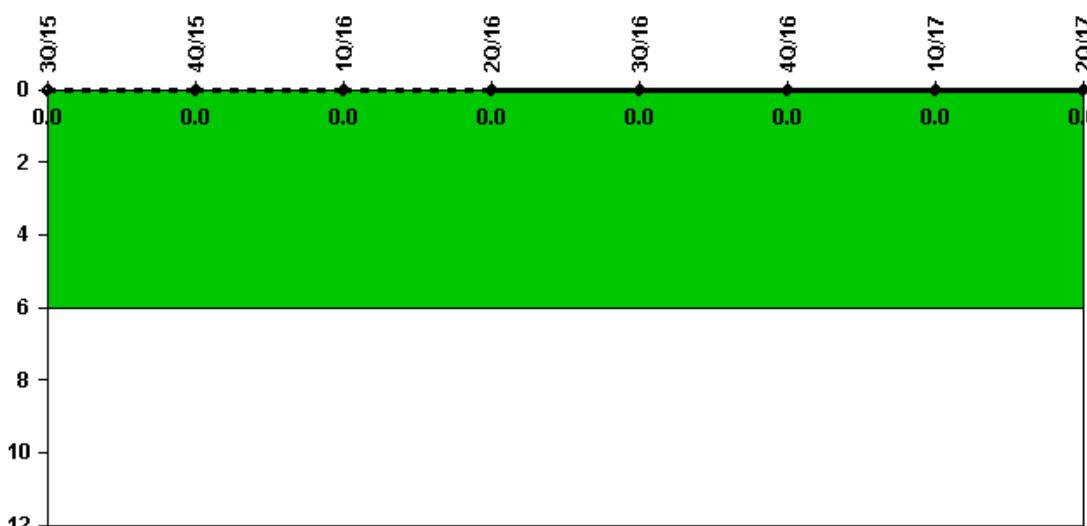
Unplanned Scrams per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned scrams	0	1.0	0	0	0	1.0	0	0
Critical hours	2208.0	2095.1	2183.0	2184.0	2208.0	2183.8	1673.2	2184.0

Indicator value



Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

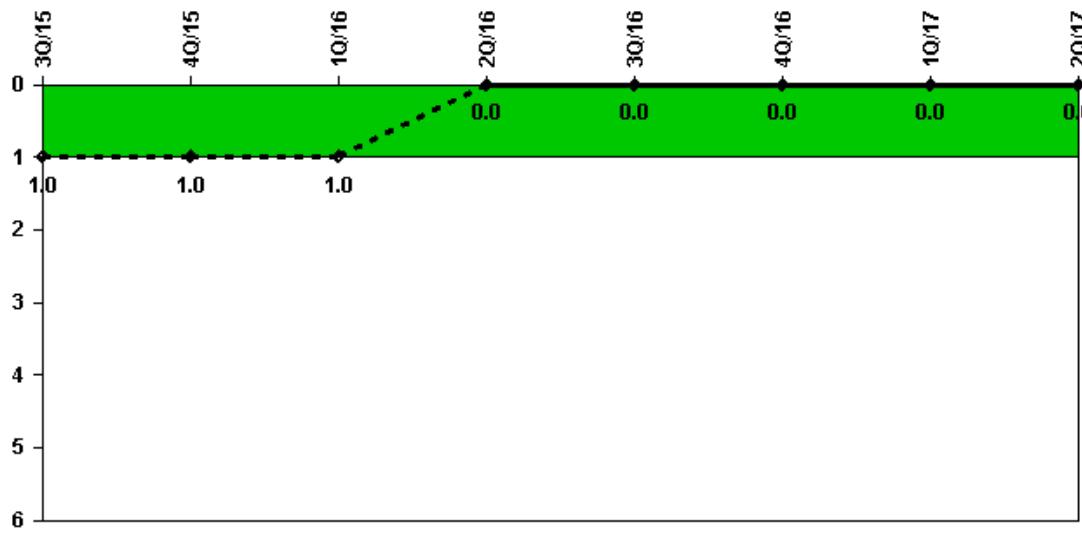
Notes

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	2095.1	2183.0	2184.0	2208.0	2183.8	1673.2	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

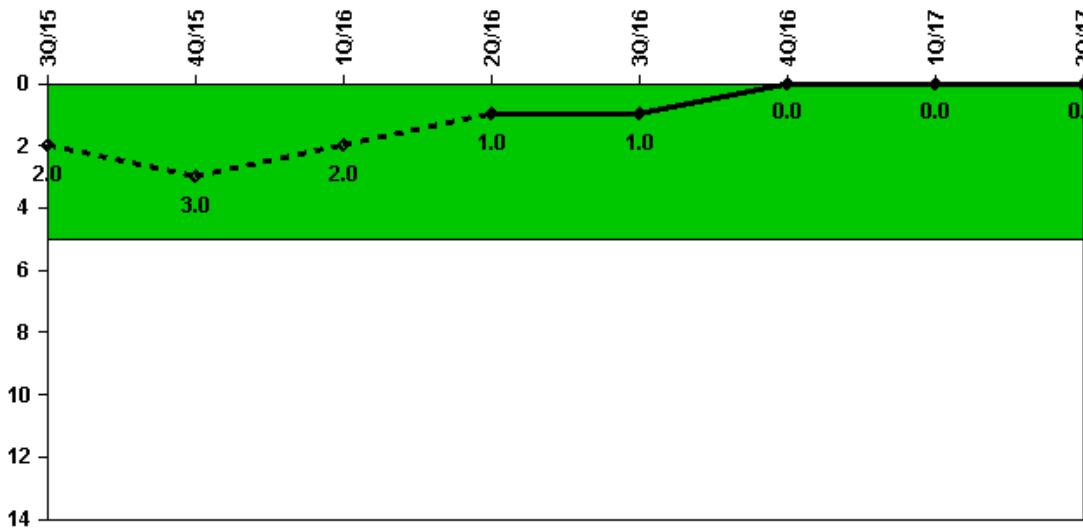
Unplanned Scrams with Complications	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Scrams with complications	0	0	0	0	0	0	0	0

Indicator value **1.0** **1.0** **1.0** **0.0** **0.0** **0.0** **0.0** **0.0**

 TOP

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

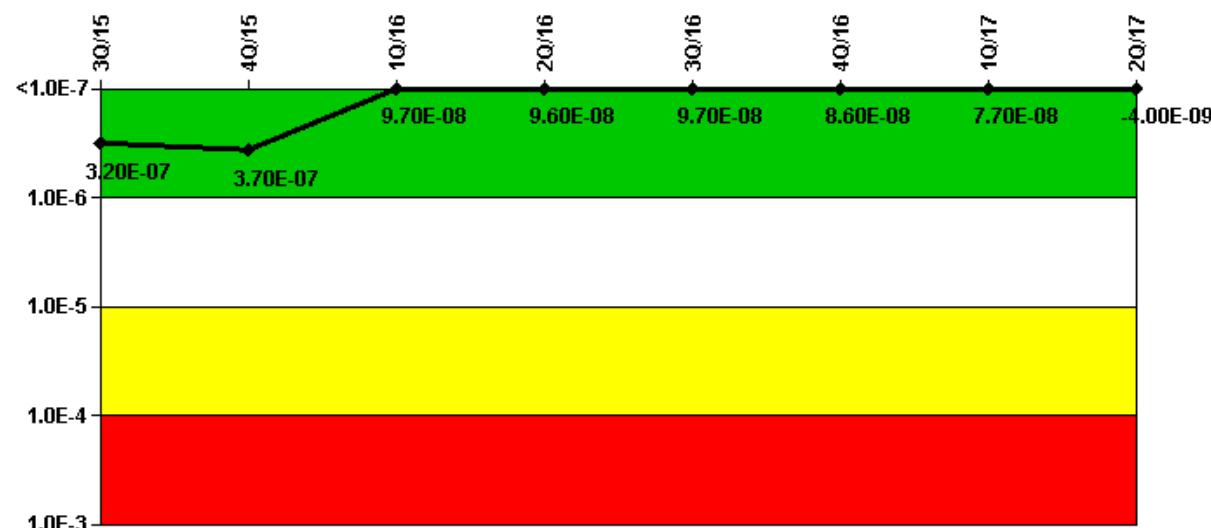
Safety System Functional Failures (PWR) 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17
 Safety System Functional Failures 0 1 0 0 0 0 0 0

Indicator value 2 3 2 1 1 0 0 0

▲ TOP

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



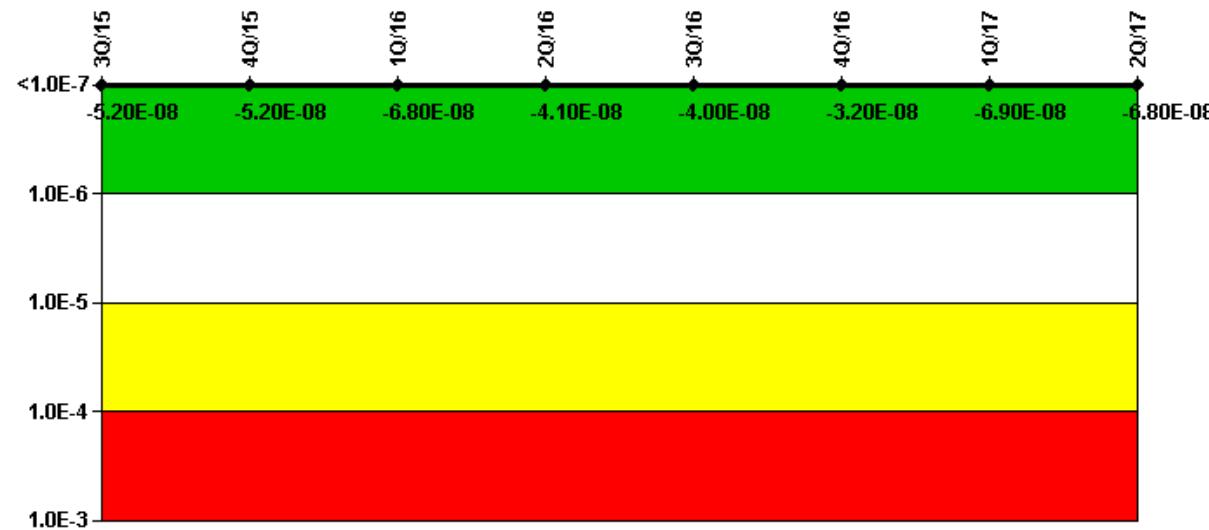
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	6.56E-10	5.93E-08	8.00E-09	5.97E-09	5.64E-09	-4.09E-09	-6.64E-09	-1.62E-08
URI (Δ CDF)	3.23E-07	3.14E-07	8.91E-08	8.98E-08	9.15E-08	8.99E-08	8.34E-08	1.22E-08
PLE	NO							
Indicator value	3.20E-07	3.70E-07	9.70E-08	9.60E-08	9.70E-08	8.60E-08	7.70E-08	-4.00E-09

 TOP

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

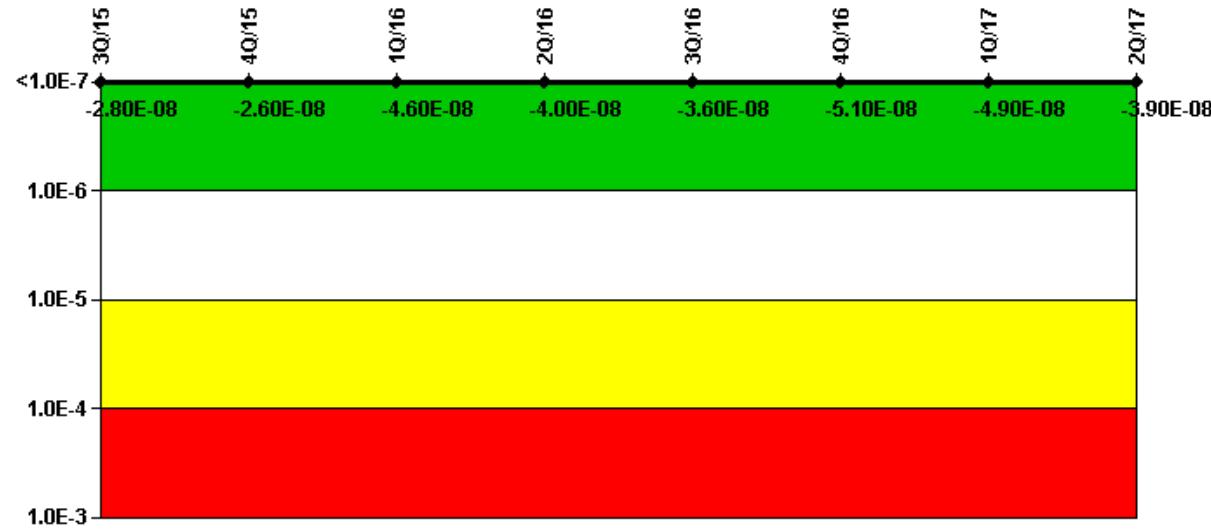
Notes**Mitigating Systems Performance Index, High Pressure Injection System**

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	-5.54E-09	-6.18E-09	-2.67E-08	1.55E-09	2.16E-09	9.05E-09	-2.41E-08	-2.42E-08
URI (Δ CDF)	-4.64E-08	-4.62E-08	-4.13E-08	-4.27E-08	-4.20E-08	-4.13E-08	-4.45E-08	-4.38E-08
PLE	NO							
Indicator value	-5.20E-08	-5.20E-08	-6.80E-08	-4.10E-08	-4.00E-08	-3.20E-08	-6.90E-08	-6.80E-08

 TOP

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

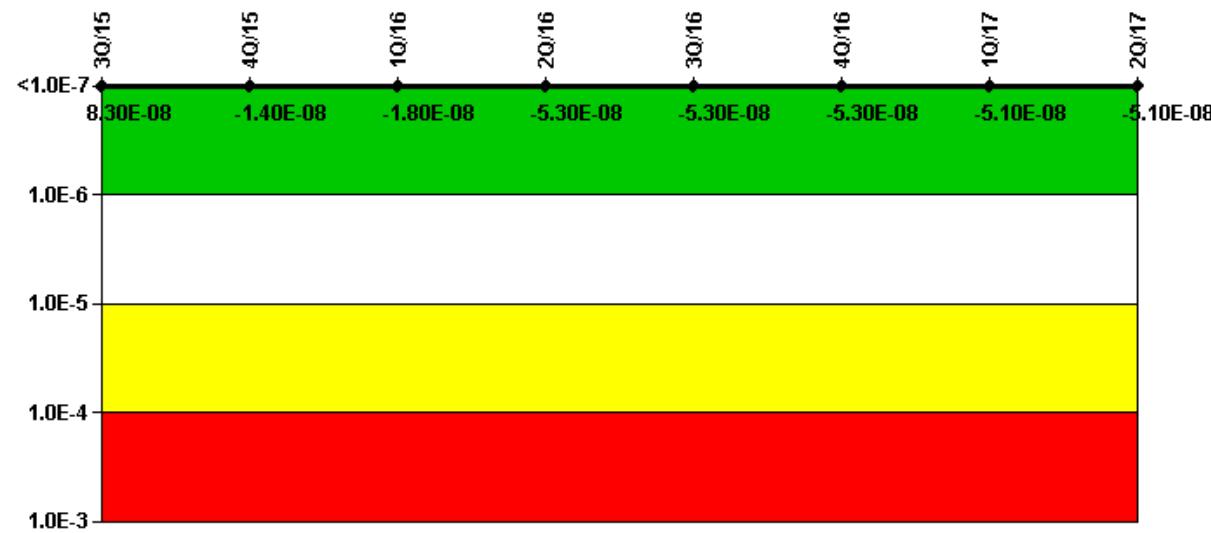
Mitigating Systems Performance Index, Heat Removal System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	-3.03E-09	-1.02E-09	-8.56E-09	-1.89E-09	2.72E-09	-1.20E-08	-9.91E-09	2.12E-09
URI (Δ CDF)	-2.51E-08	-2.51E-08	-3.71E-08	-3.78E-08	-3.88E-08	-3.86E-08	-3.95E-08	-4.09E-08
PLE	NO							
Indicator value	-2.80E-08	-2.60E-08	-4.60E-08	-4.00E-08	-3.60E-08	-5.10E-08	-4.90E-08	-3.90E-08

▲ TOP

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/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	8.34E-08	-8.96E-09	-1.31E-08	-4.82E-08	-4.82E-08	-4.82E-08	-4.54E-08	-4.54E-08
URI (Δ CDF)		-4.45E-10	-4.65E-09	-4.78E-09	-5.03E-09	-4.92E-09	-4.92E-09	-5.56E-09
PLE		NO						
Indicator value		8.30E-08	-1.40E-08	-1.80E-08	-5.30E-08	-5.30E-08	-5.10E-08	-5.10E-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

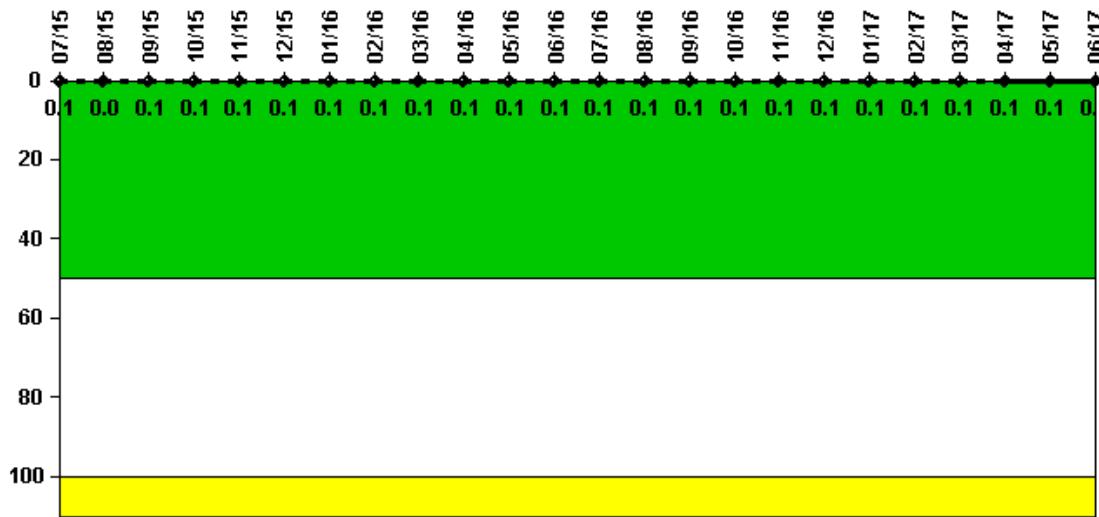
	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	-2.91E-08	-1.00E-07	-8.91E-08	-8.97E-08	-9.03E-08	-4.53E-08	-1.24E-08	-1.24E-08
URI (Δ CDF)	-2.23E-07	-2.23E-07	-2.50E-07	-2.50E-07	-2.50E-07	-2.50E-07	-2.49E-07	-2.49E-07
PLE	NO							
Indicator value	-2.50E-07	-3.20E-07	-3.40E-07	-3.40E-07	-3.40E-07	-2.90E-07	-2.60E-07	-2.60E-07

▲ TOP

Licensee Comments:

3Q/15: 21 SW Train unavailability was incorrectly reported in October 2014 as 46 hours. Data identified and corrected on 10/15/2015. Correct hours are 6.4. IR 2571219

Reactor Coolant System Activity



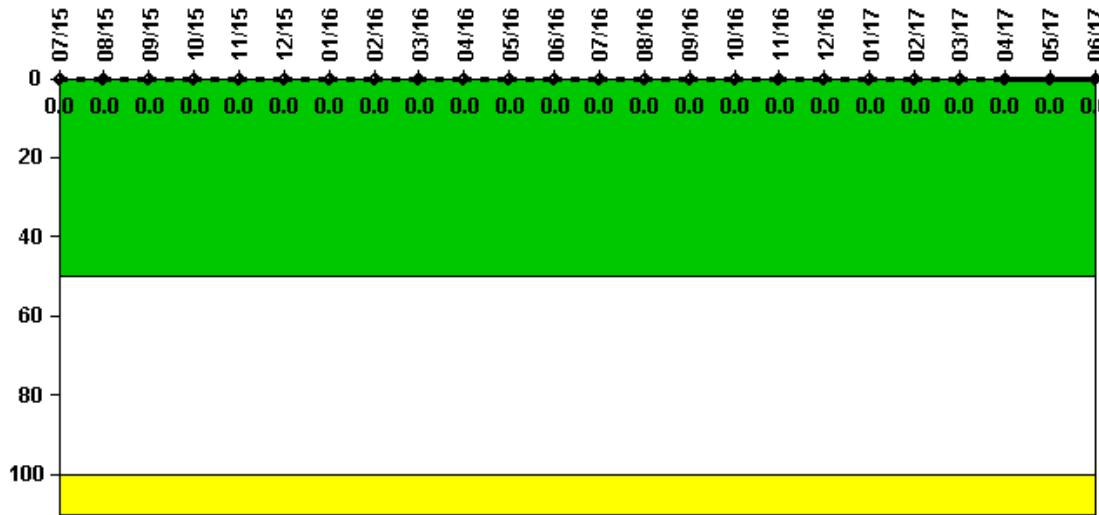
Thresholds: White > 50.0 Yellow > 100.0

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	0.000301	0.000249	0.000332	0.000394	0.000406	0.000431	0.000415	0.000444	0.000417	0.000303	0.000322	0.000484
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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	0.000531	0.000540	0.000535	0.000598	0.000592	0.000369	0.000694	0.000349	0.000276	0.000283	0.000316	0.000313
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

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 0 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 0 0 0 0 0 0 0 0 0 0 0 0

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

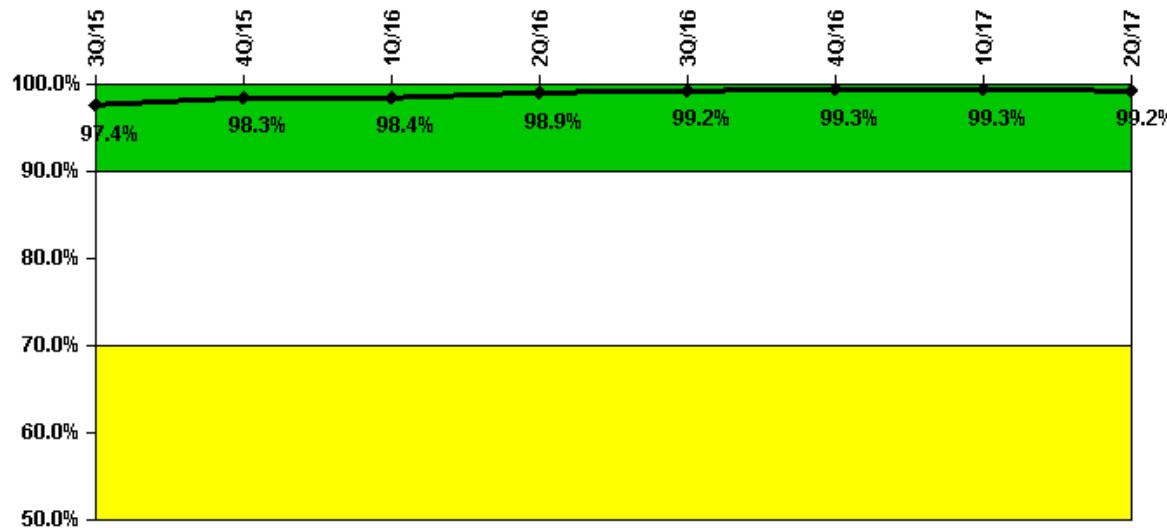
Maximum leakage 0 0 0 0 0 0 0 0 0 0 0 0

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 0 0 0 0 0 0 0 0 0 0 0 0

TOP

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

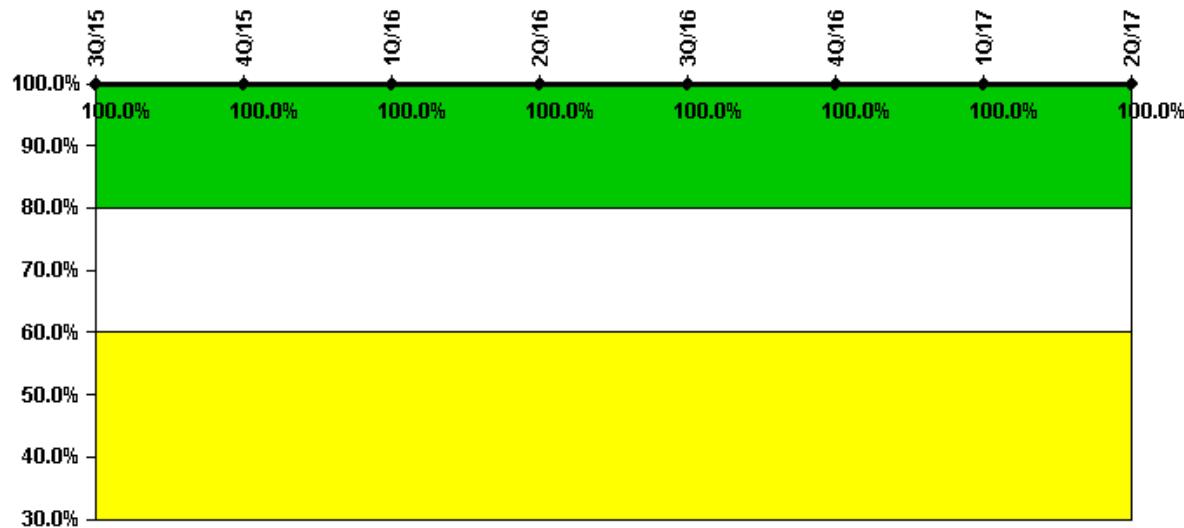
Notes

Drill/Exercise Performance	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful opportunities	44.0	60.0	42.0	30.0	74.0	71.0	8.0	45.0
Total opportunities	45.0	60.0	42.0	30.0	74.0	72.0	8.0	46.0

Indicator value 97.4% 98.3% 98.4% 98.9% 99.2% 99.3% 99.3% 99.2%

▲ TOP

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

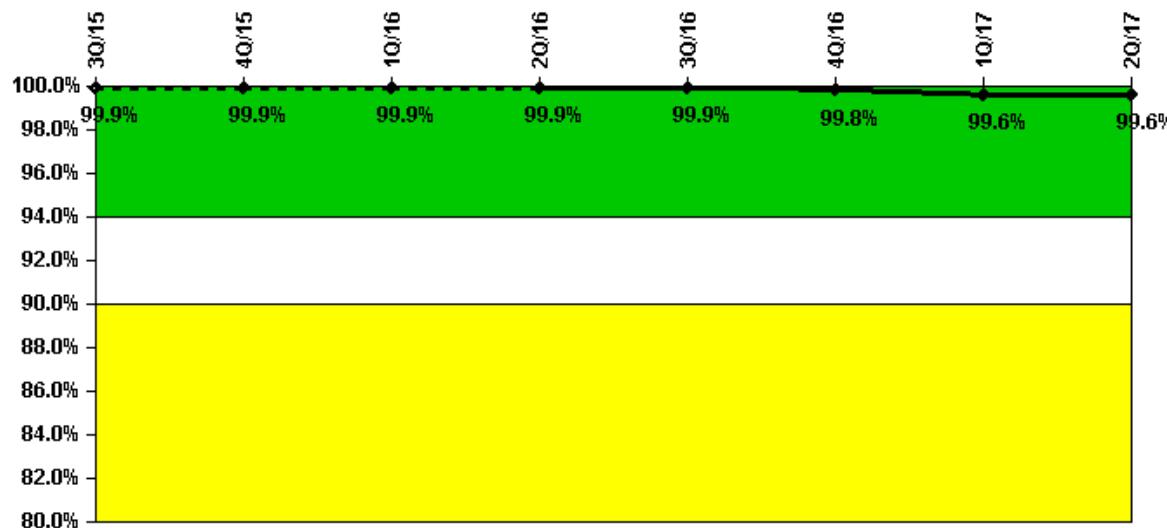
Notes

ERO Drill Participation	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Participating Key personnel	46.0	46.0	52.0	55.0	51.0	52.0	48.0	50.0
Total Key personnel	46.0	46.0	52.0	55.0	51.0	52.0	48.0	50.0

Indicator value 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%

TOP

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

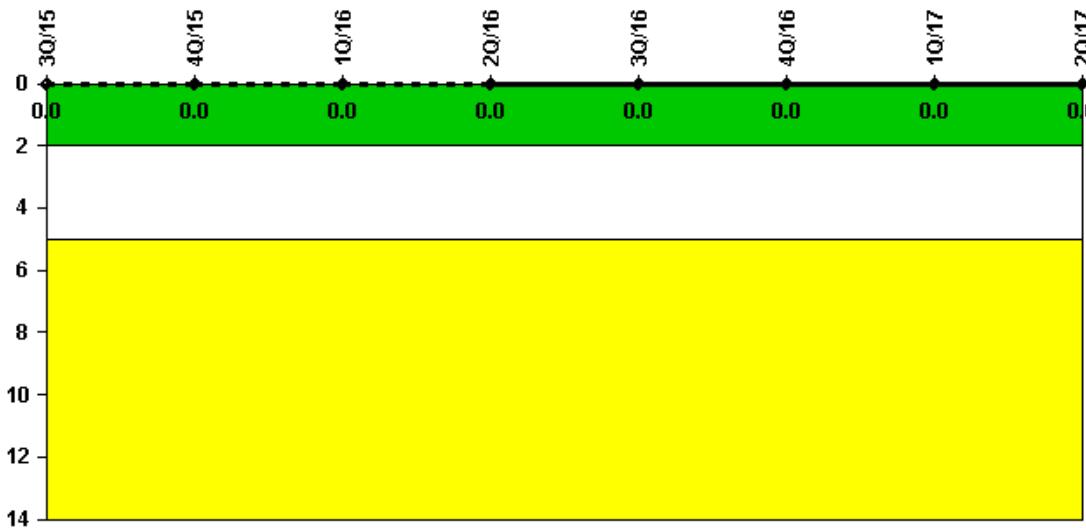
Notes**Alert & Notification System 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17**

Successful siren-tests	949	948	949	948	946	945	943	947
Total sirens-tests	949	949	949	949	949	949	949	949

Indicator value **99.9% 99.9% 99.9% 99.9% 99.9% 99.8% 99.6% 99.6%**

TOP

Licensee Comments: none

Occupational Exposure Control Effectiveness

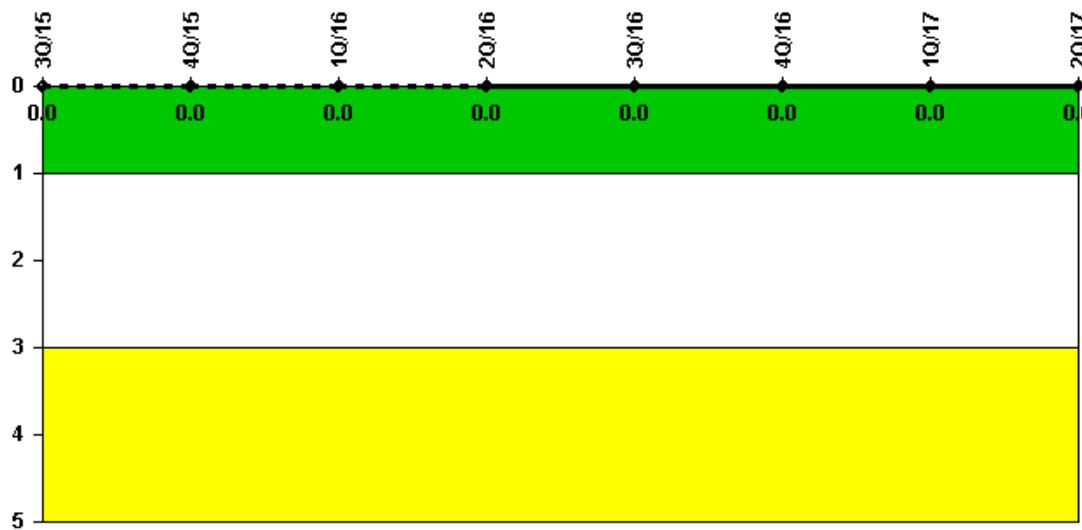
Thresholds: White > 2.0 Yellow > 5.0

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 > Calvert Cliffs 2 > Quarterly Performance Indicators

Calvert Cliffs 2 – Quarterly Performance Indicators

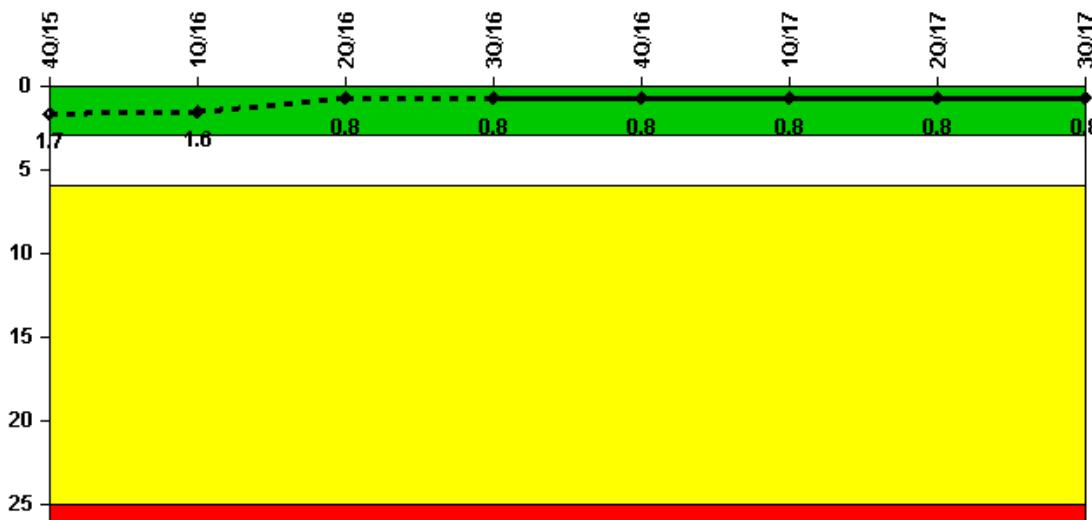
3Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: The Calvert Cliffs PRA model of record was updated in Dec 2015 as model revision CA015A. The MSPI Bases document was also revised in December 2015 (CA-MSPI-001 Rev 5). Revised PRA coefficients resulting from this update became effective in the 1st quarter of 2016.

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
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- Emergency AC Power Systems (MS06)
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- Heat Removal Systems (MS08)
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- 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

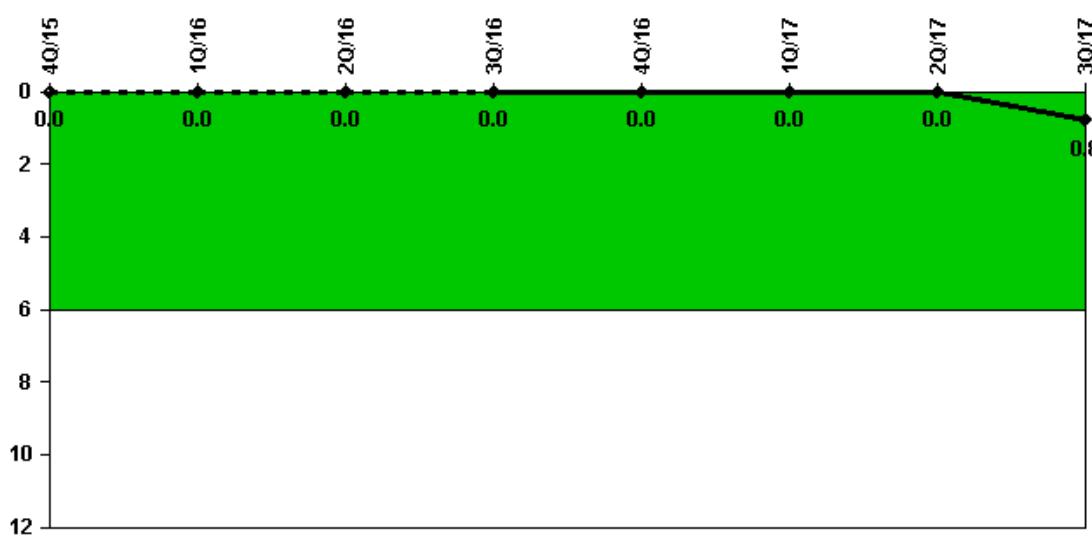
Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned scrams		1.0	0	0	0	1.0	0	0
Critical hours		2095.1	2183.0	2184.0	2208.0	2183.8	1673.2	2184.0

Indicator value 1.7 1.6 0.8 0.8 0.8 0.8 0.8 0.8



Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

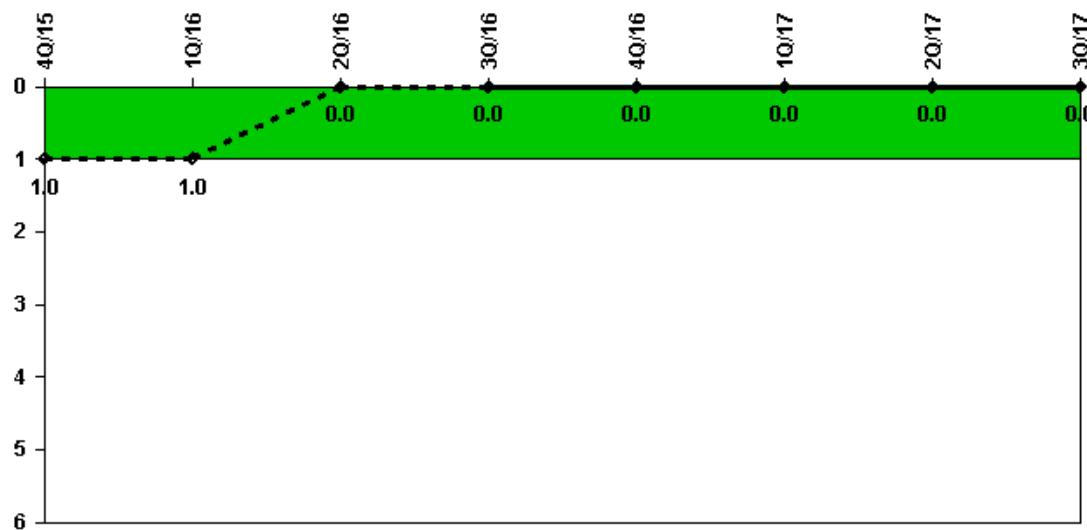
Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/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	1.0
Critical hours	2095.1	2183.0	2184.0	2208.0	2183.8	1673.2	2184.0	2208.0

Indicator value **0** **0** **0** **0** **0** **0** **0** **0.8**



Licensee Comments: none



Thresholds: White > 1.0

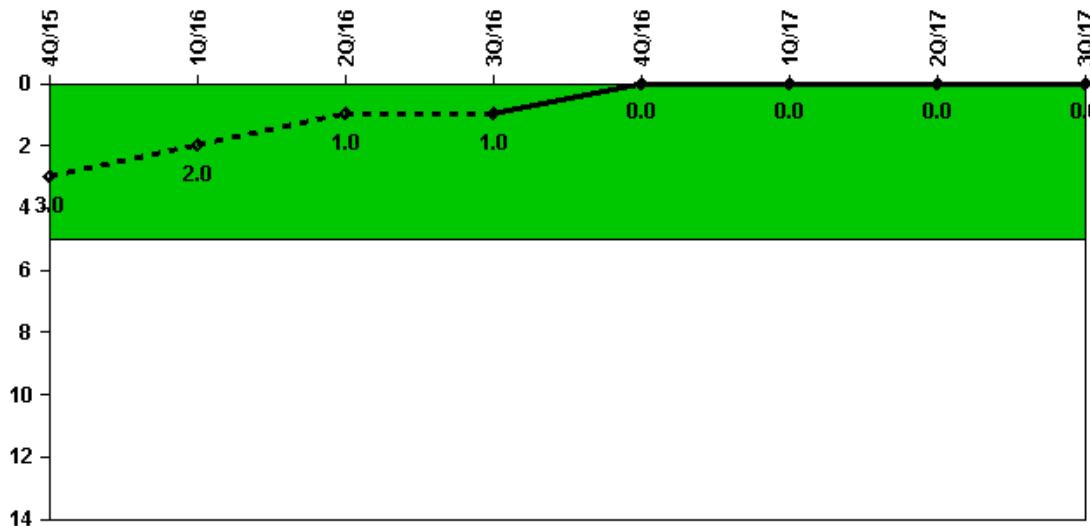
Notes

Indicator value 1.0 1.0 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

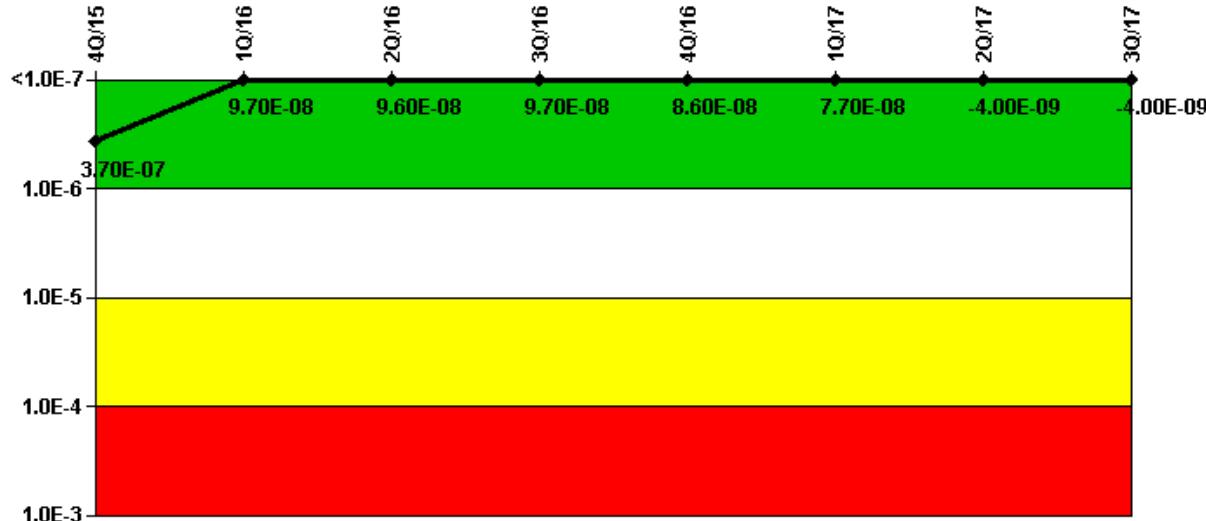
Safety System Functional Failures (PWR) 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17
Safety System Functional Failures 1 0 0 0 0 0 0 0 0

Indicator value 3 2 1 1 0 0 0 0 0

TOP

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



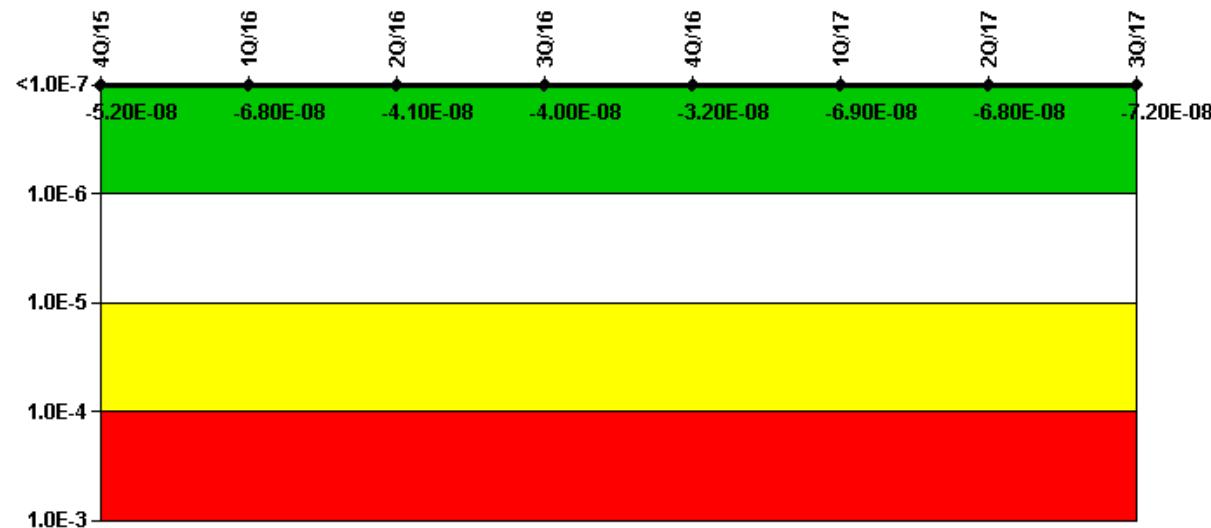
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	5.93E-08	8.00E-09	5.97E-09	5.64E-09	-4.09E-09	-6.64E-09	-1.62E-08	-1.62E-08
URI (Δ CDF)	3.14E-07	8.91E-08	8.98E-08	9.15E-08	8.99E-08	8.34E-08	1.22E-08	1.22E-08
PLE	NO	NO						
Indicator value	3.70E-07	9.70E-08	9.60E-08	9.70E-08	8.60E-08	7.70E-08	-4.00E-09	-4.00E-09

 TOP

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

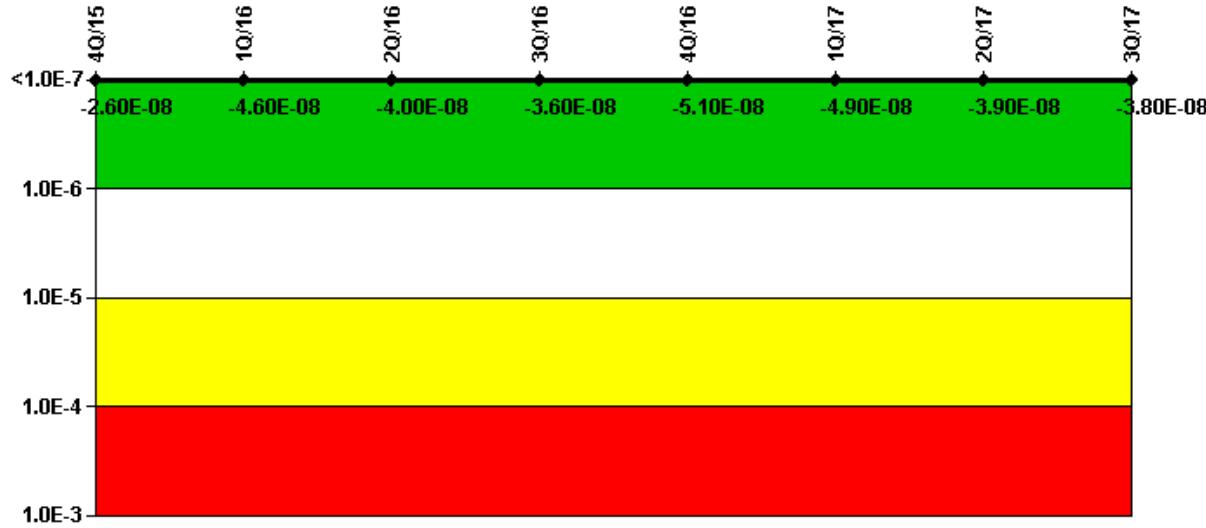
Notes**Mitigating Systems Performance Index, High Pressure Injection System**

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-6.18E-09	-2.67E-08	1.55E-09	2.16E-09	9.05E-09	-2.41E-08	-2.42E-08	-2.67E-08
URI (Δ CDF)	-4.62E-08	-4.13E-08	-4.27E-08	-4.20E-08	-4.13E-08	-4.45E-08	-4.38E-08	-4.50E-08
PLE	NO							
Indicator value	-5.20E-08	-6.80E-08	-4.10E-08	-4.00E-08	-3.20E-08	-6.90E-08	-6.80E-08	-7.20E-08

 TOP

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

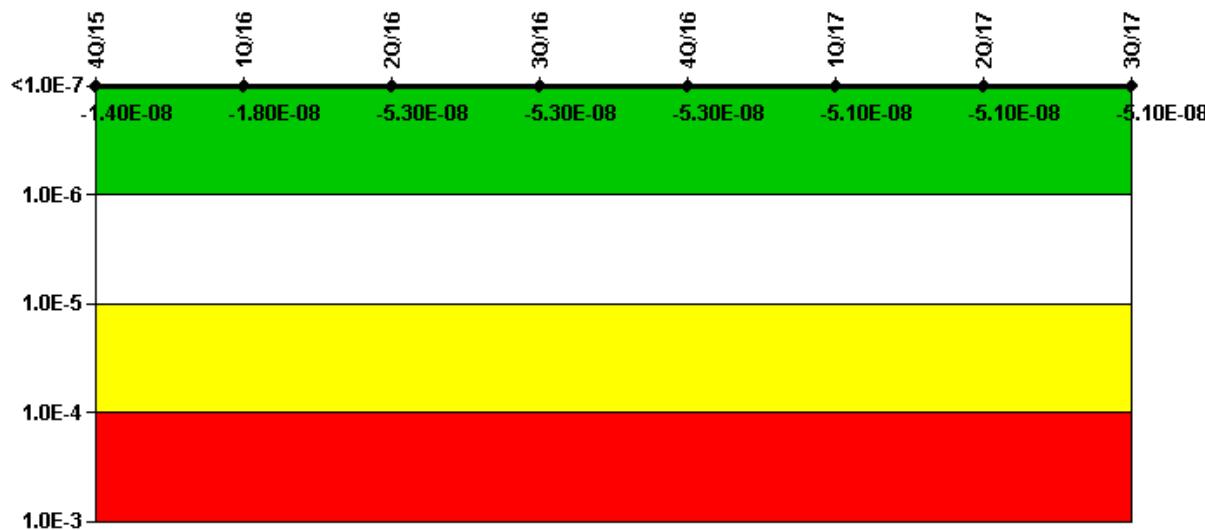
Mitigating Systems Performance Index, Heat Removal System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-1.02E-09	-8.56E-09	-1.89E-09	2.72E-09	-1.20E-08	-9.91E-09	2.12E-09	3.00E-09
URI (Δ CDF)	-2.51E-08	-3.71E-08	-3.78E-08	-3.88E-08	-3.86E-08	-3.95E-08	-4.09E-08	-4.09E-08
PLE	NO							
Indicator value	-2.60E-08	-4.60E-08	-4.00E-08	-3.60E-08	-5.10E-08	-4.90E-08	-3.90E-08	-3.80E-08

▲ TOP

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

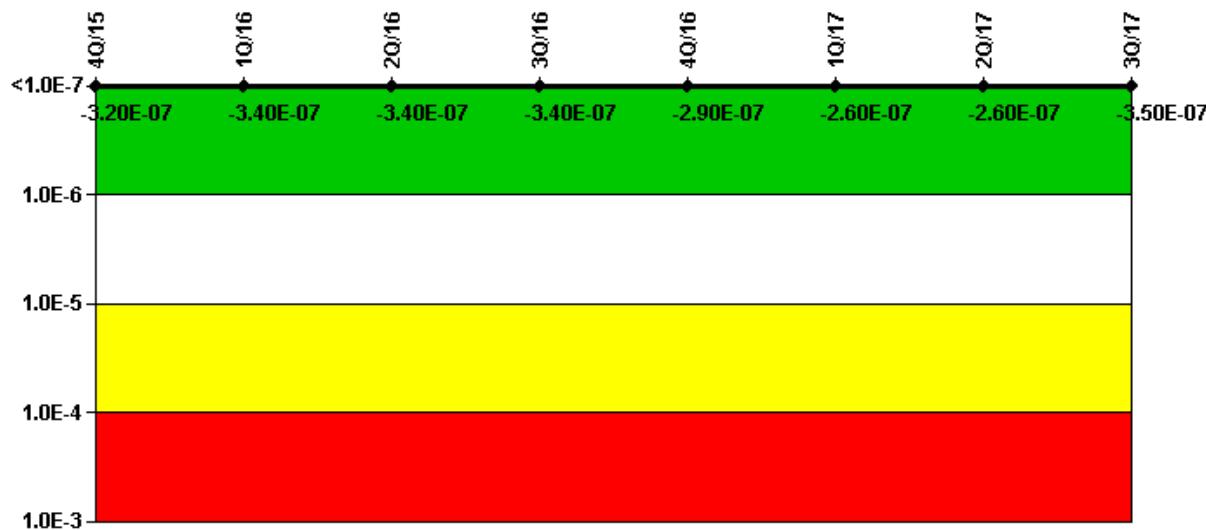
Notes

Mitigating Systems Performance Index, Residual Heat Removal System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-8.96E-09	-1.31E-08	-4.82E-08	-4.82E-08	-4.82E-08	-4.54E-08	-4.54E-08	-4.54E-08
URI (Δ CDF)	-4.65E-09	-4.78E-09	-5.03E-09	-4.92E-09	-4.92E-09	-5.56E-09	-5.76E-09	-5.95E-09
PLE	NO							
Indicator value	-1.40E-08	-1.80E-08	-5.30E-08	-5.30E-08	-5.30E-08	-5.10E-08	-5.10E-08	-5.10E-08



Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

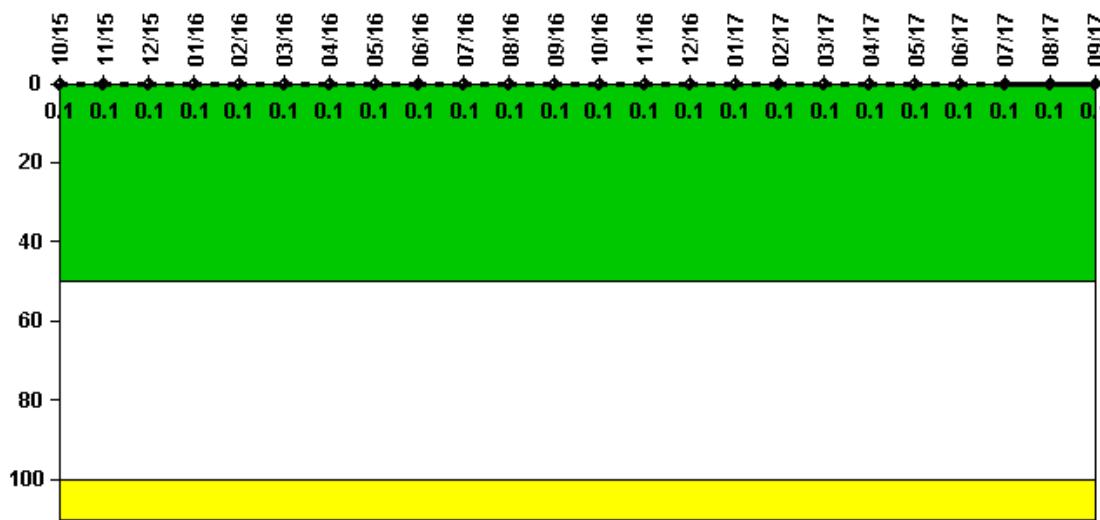
Notes**Mitigating Systems Performance Index, Cooling****Water Systems**

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-1.00E-07	-8.91E-08	-8.97E-08	-9.03E-08	-4.53E-08	-1.24E-08	-1.24E-08	-1.02E-07
URI (Δ CDF)	-2.23E-07	-2.50E-07	-2.50E-07	-2.50E-07	-2.50E-07	-2.49E-07	-2.49E-07	-2.49E-07
PLE	NO							
Indicator value	-3.20E-07	-3.40E-07	-3.40E-07	-3.40E-07	-2.90E-07	-2.60E-07	-2.60E-07	-3.50E-07

TOP

Licensee Comments: none

Reactor Coolant System Activity



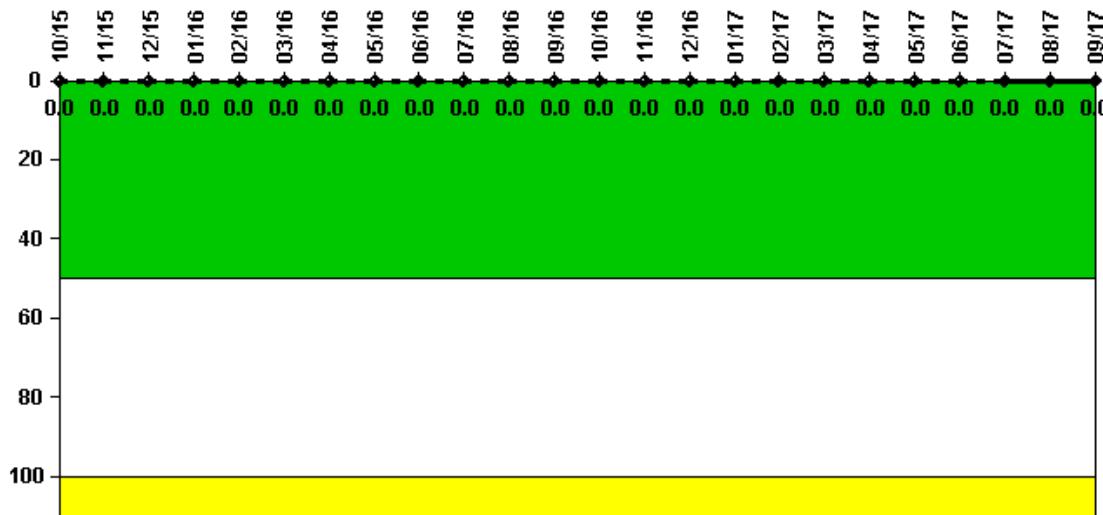
Thresholds: White > 50.0 Yellow > 100.0

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	0.000394	0.000406	0.000431	0.000415	0.000444	0.000417	0.000303	0.000322	0.000484	0.000531	0.000540	0.000535
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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	0.000598	0.000592	0.000369	0.000694	0.000349	0.000276	0.000283	0.000316	0.000313	0.000328	0.000345	0.000367
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TOP

Licensee Comments: none

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 0 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 0 0 0 0 0 0 0 0 0 0 0 0

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

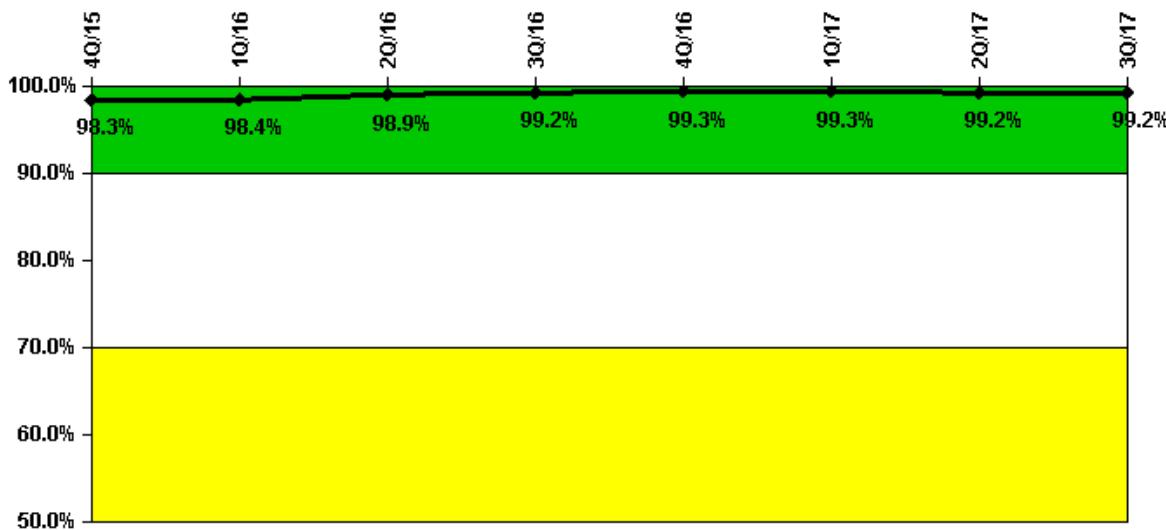
Maximum leakage 0 0 0 0 0 0 0 0 0 0 0 0

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 0 0 0 0 0 0 0 0 0 0 0 0

TOP

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

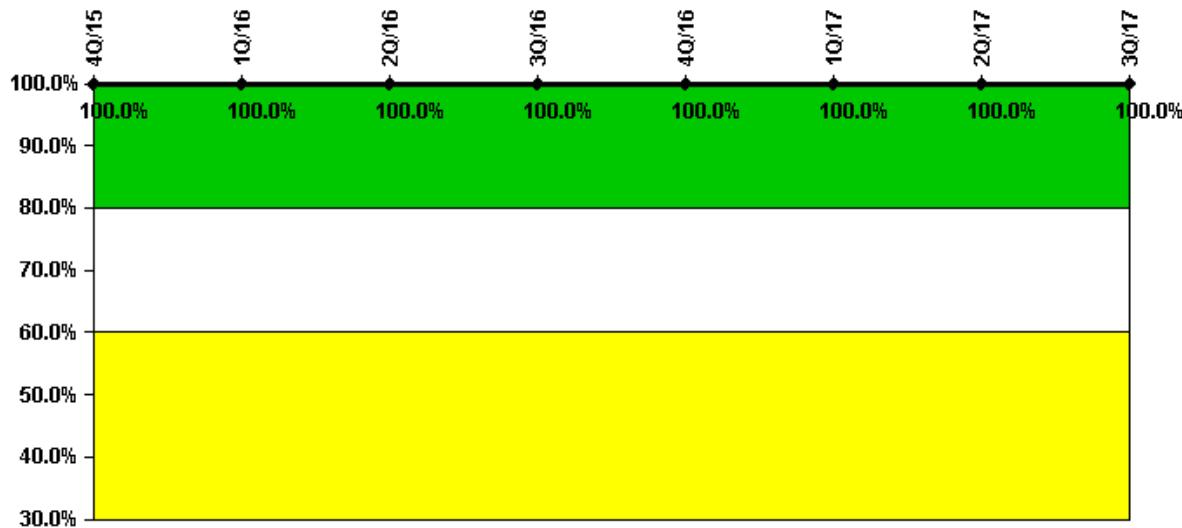
Drill/Exercise Performance	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful opportunities	60.0	42.0	30.0	74.0	71.0	8.0	45.0	63.0
Total opportunities	60.0	42.0	30.0	74.0	72.0	8.0	46.0	64.0

Indicator value **98.3% 98.4% 98.9% 99.2% 99.3% 99.3% 99.2% 99.2%**

TOP

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

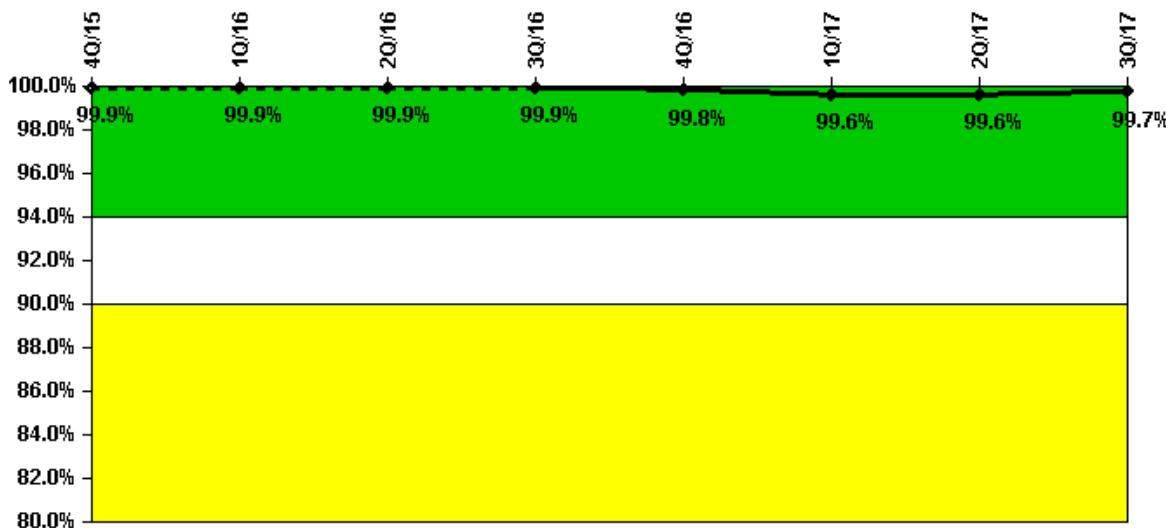
ERO Drill Participation	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Participating Key personnel	46.0	52.0	55.0	51.0	52.0	48.0	50.0	49.0
Total Key personnel	46.0	52.0	55.0	51.0	52.0	48.0	50.0	49.0

Indicator value 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%

TOP

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

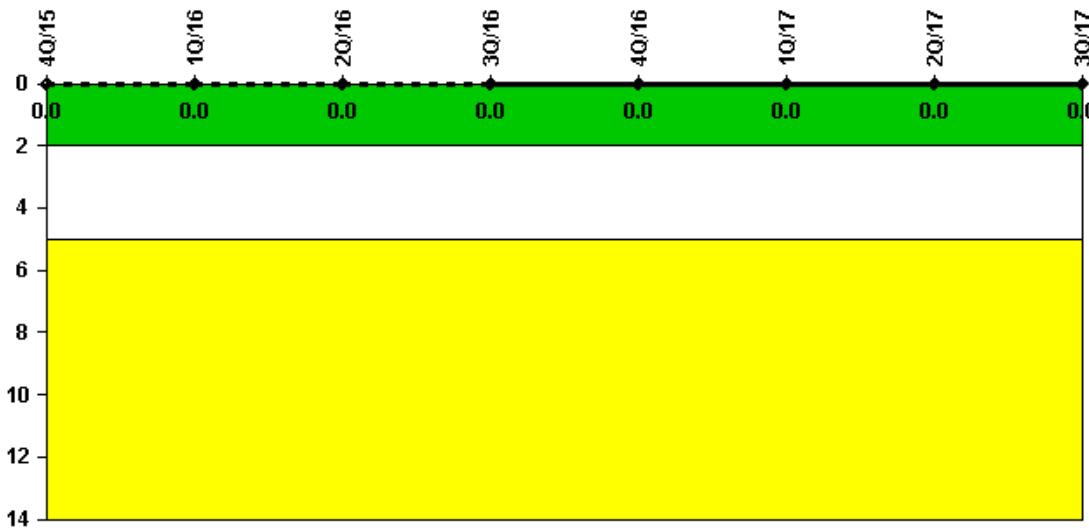
Alert & Notification System 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17

Successful siren-tests	948	949	948	946	945	943	947	949
Total sirens-tests	949	949	949	949	949	949	949	949

Indicator value 99.9% 99.9% 99.9% 99.9% 99.8% 99.6% 99.6% 99.7%

TOP

Licensee Comments: none

Occupational Exposure Control Effectiveness

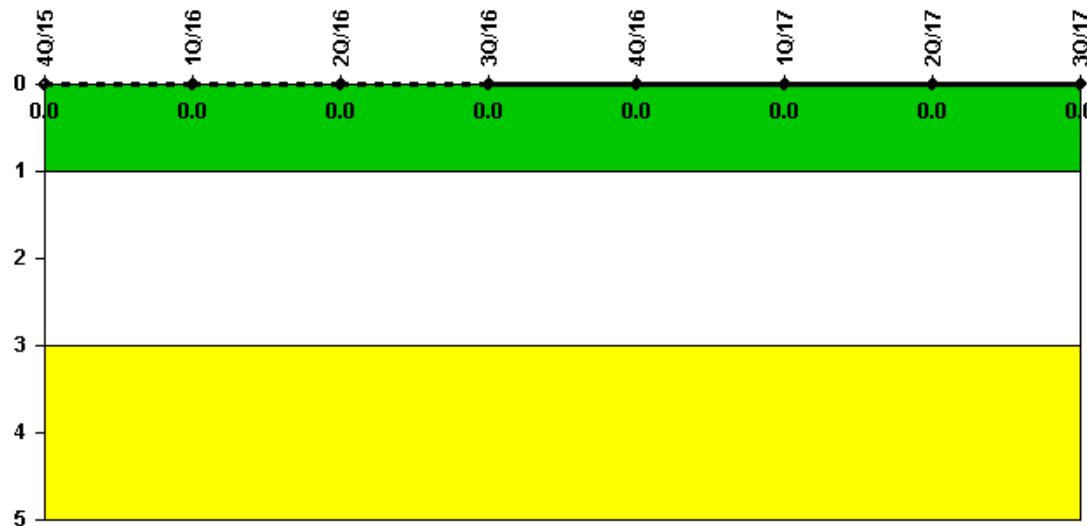
Thresholds: White > 2.0 Yellow > 5.0

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							

TOP

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 > Calvert Cliffs 2 > Quarterly Performance Indicators

Calvert Cliffs 2 – Quarterly Performance Indicators

4Q/2017 Performance Indicators

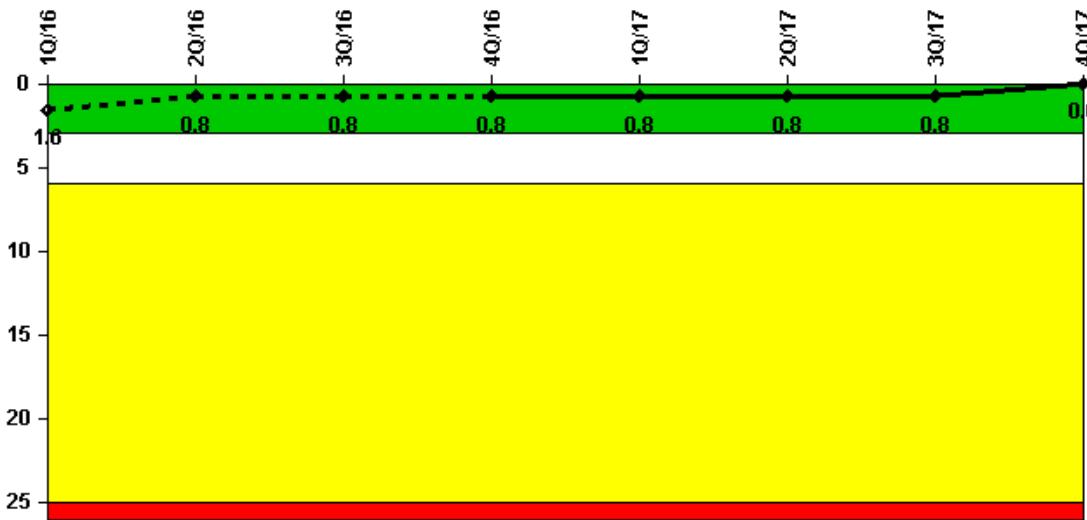
The solid trend line represents the current reporting period.

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

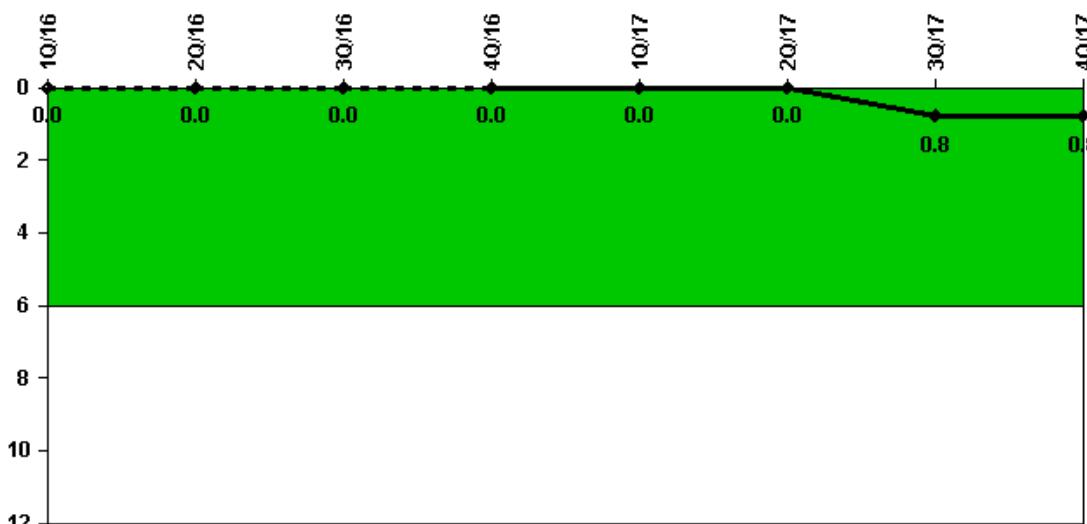
Unplanned Scrams per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2183.8	1673.2	2184.0	2208.0	2209.0

Indicator value



Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

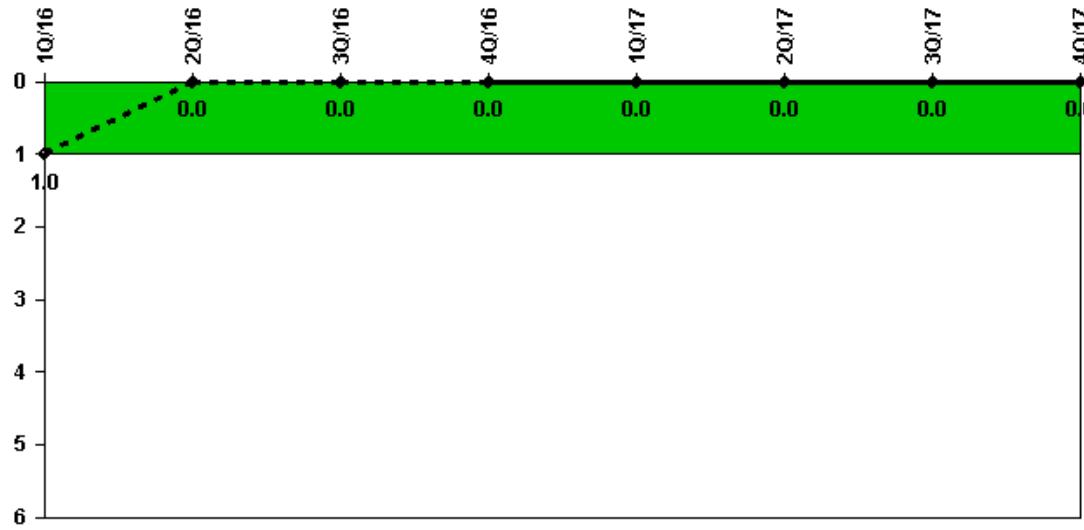
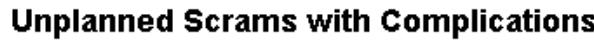
Notes

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	1.0	0
Critical hours	2183.0	2184.0	2208.0	2183.8	1673.2	2184.0	2208.0	2209.0

Indicator value **0** **0** **0** **0** **0** **0** **0.8** **0.8**



Licensee Comments: none



Thresholds: White > 1.0

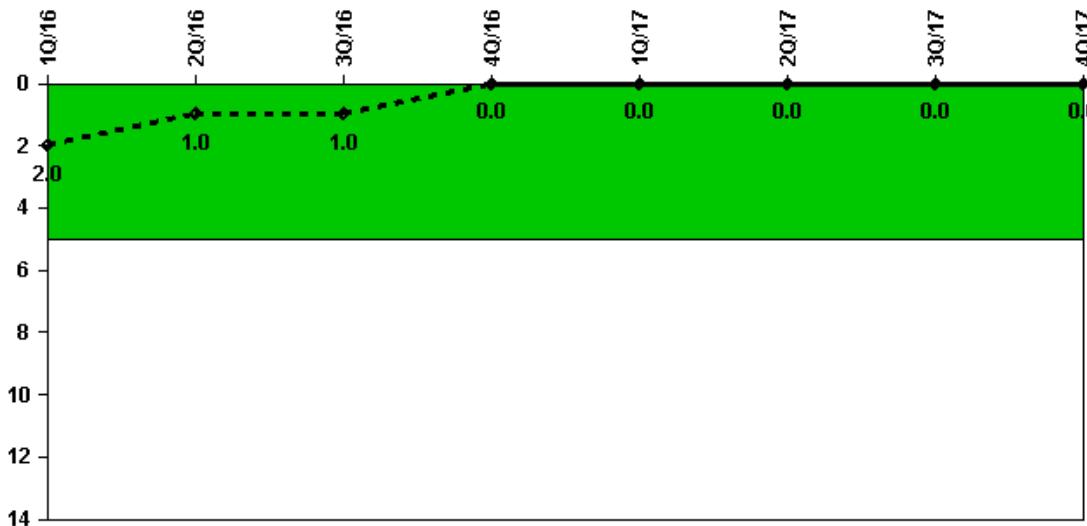
Notes

Indicator value 1.0 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

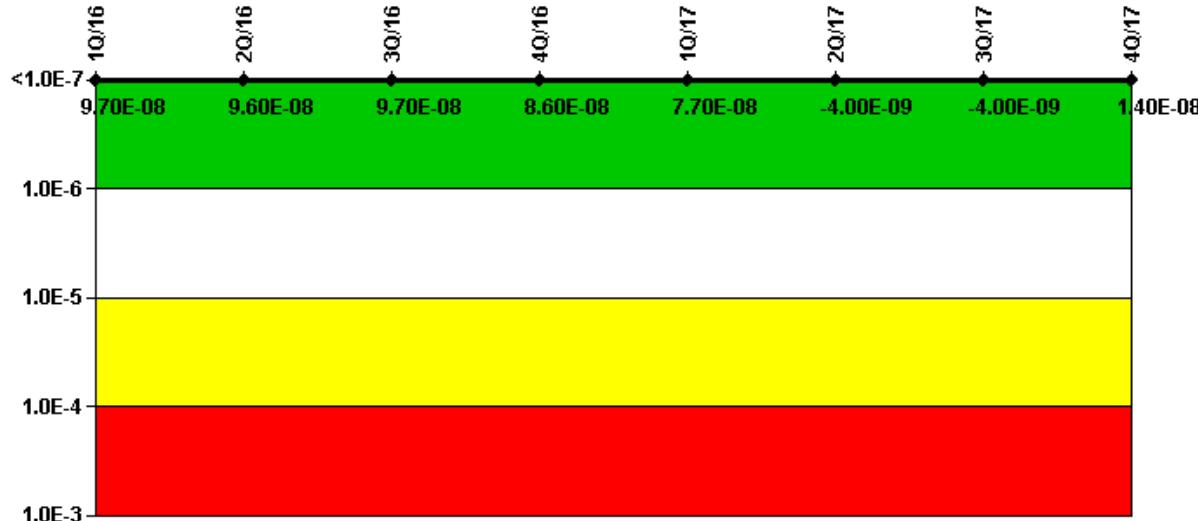
Safety System Functional Failures (PWR) 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17 4Q/17
Safety System Functional Failures 0 0 0 0 0 0 0 0

Indicator value 2 1 1 0 0 0 0 0 0

1

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



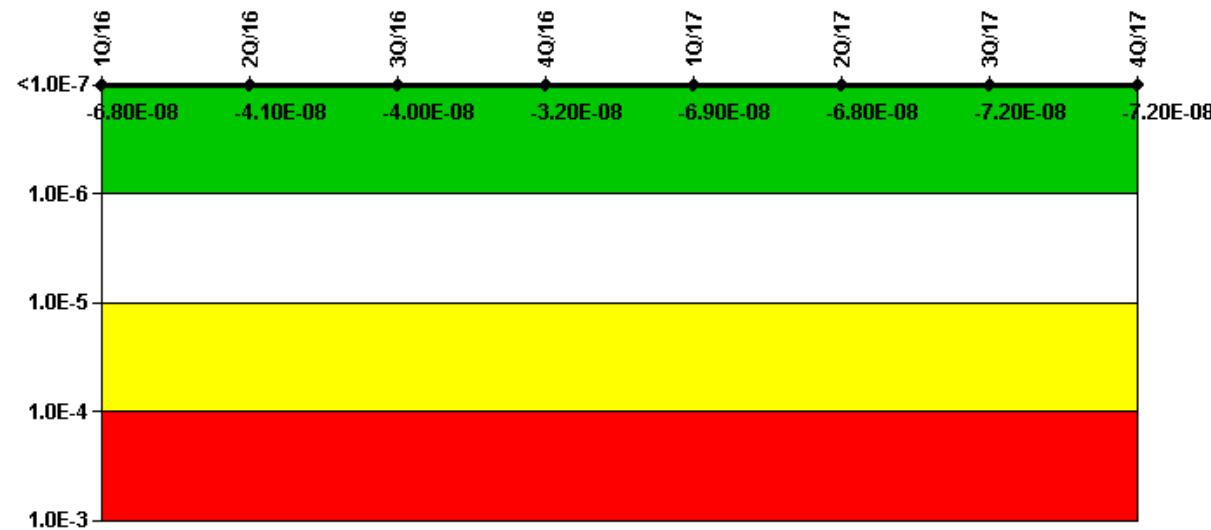
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes**Mitigating Systems Performance Index, Emergency AC Power System**

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (Δ CDF)	8.00E-09	5.97E-09	5.64E-09	-4.09E-09	-6.64E-09	-1.62E-08	-1.62E-08	3.31E-09
URI (Δ CDF)	8.91E-08	8.98E-08	9.15E-08	8.99E-08	8.34E-08	1.22E-08	1.22E-08	1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.70E-08	9.60E-08	9.70E-08	8.60E-08	7.70E-08	-4.00E-09	-4.00E-09	1.40E-08

 TOP

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

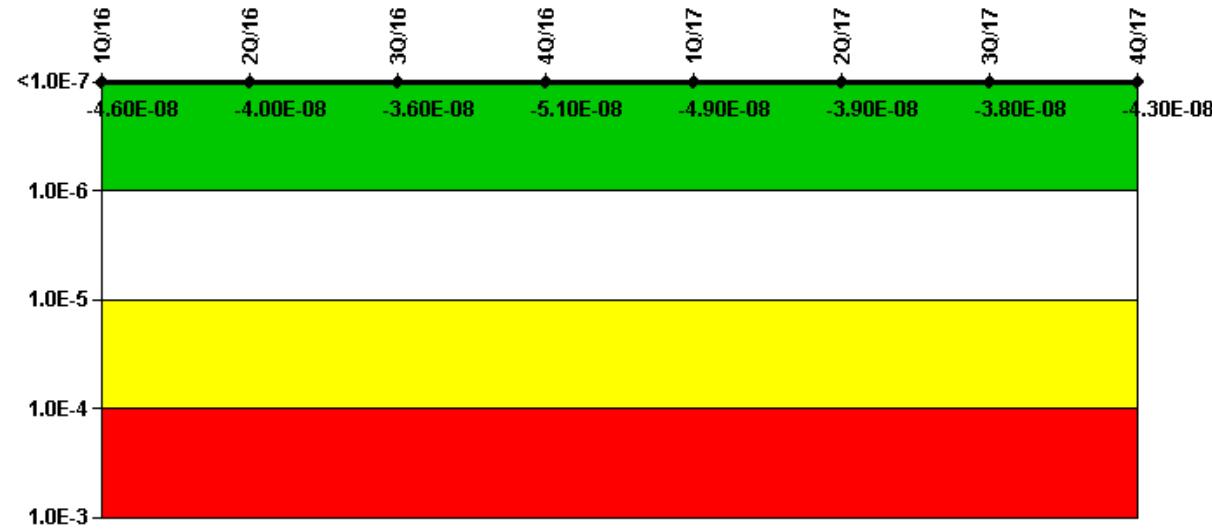
Notes**Mitigating Systems Performance Index, High Pressure Injection System**

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (Δ CDF)	-2.67E-08	1.55E-09	2.16E-09	9.05E-09	-2.41E-08	-2.42E-08	-2.67E-08	-2.61E-08
URI (Δ CDF)	-4.13E-08	-4.27E-08	-4.20E-08	-4.13E-08	-4.45E-08	-4.38E-08	-4.50E-08	-4.57E-08
PLE	NO							
Indicator value	-6.80E-08	-4.10E-08	-4.00E-08	-3.20E-08	-6.90E-08	-6.80E-08	-7.20E-08	-7.20E-08

 TOP

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

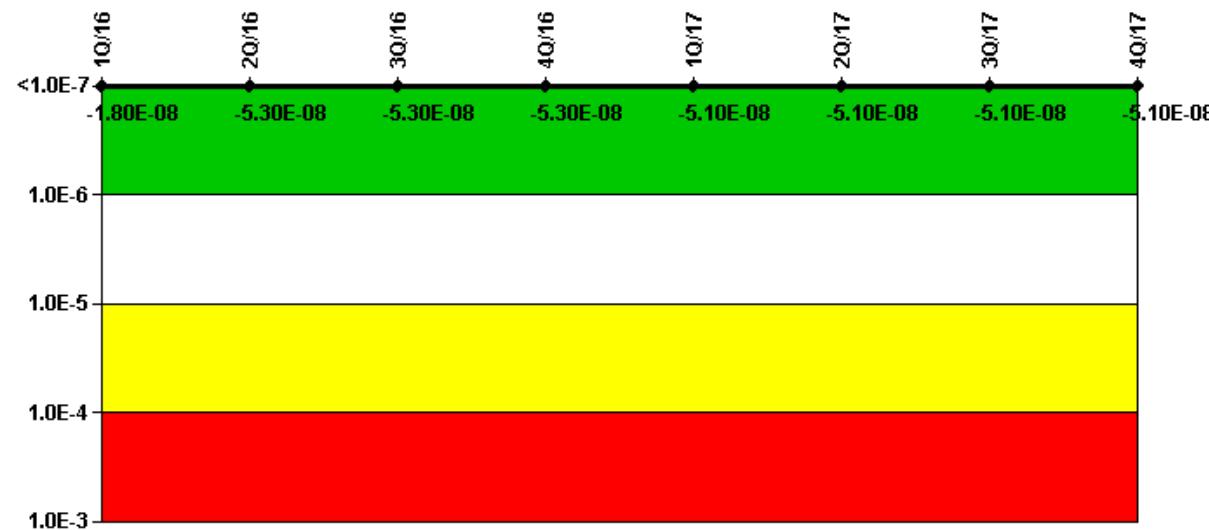
Mitigating Systems Performance Index, Heat Removal System

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (Δ CDF)	-8.56E-09	-1.89E-09	2.72E-09	-1.20E-08	-9.91E-09	2.12E-09	3.00E-09	-2.06E-09
URI (Δ CDF)	-3.71E-08	-3.78E-08	-3.88E-08	-3.86E-08	-3.95E-08	-4.09E-08	-4.09E-08	-4.07E-08
PLE	NO							
Indicator value	-4.60E-08	-4.00E-08	-3.60E-08	-5.10E-08	-4.90E-08	-3.90E-08	-3.80E-08	-4.30E-08

▲ TOP

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

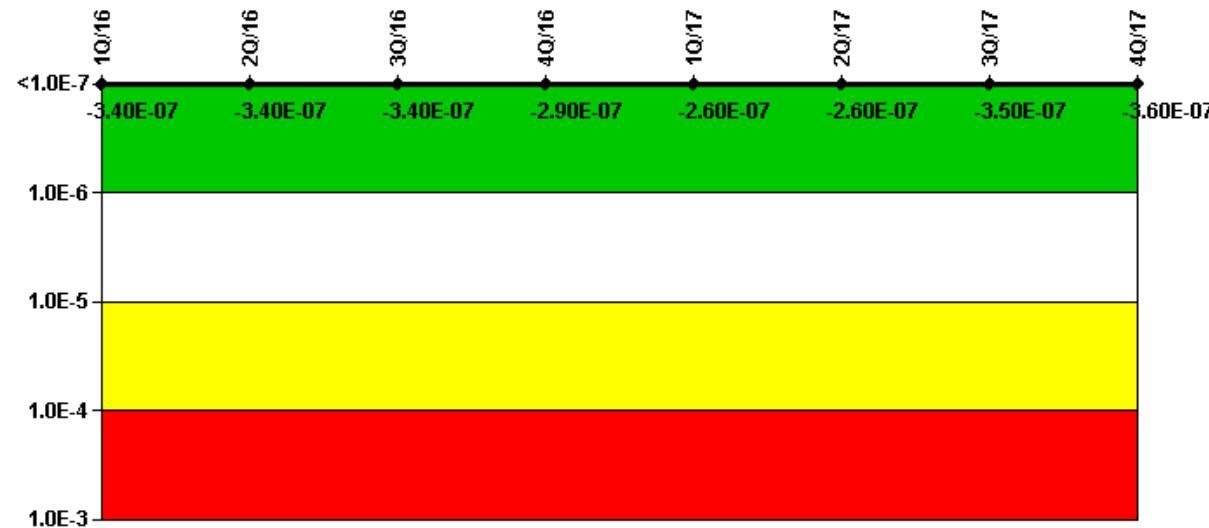
Mitigating Systems Performance Index, Residual Heat Removal System

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (Δ CDF)	-1.31E-08	-4.82E-08	-4.82E-08	-4.82E-08	-4.54E-08	-4.54E-08	-4.54E-08	-4.54E-08
URI (Δ CDF)	-4.78E-09	-5.03E-09	-4.92E-09	-4.92E-09	-5.56E-09	-5.76E-09	-5.95E-09	-5.83E-09
PLE	NO							
Indicator value	-1.80E-08	-5.30E-08	-5.30E-08	-5.30E-08	-5.10E-08	-5.10E-08	-5.10E-08	-5.10E-08

▲ TOP

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

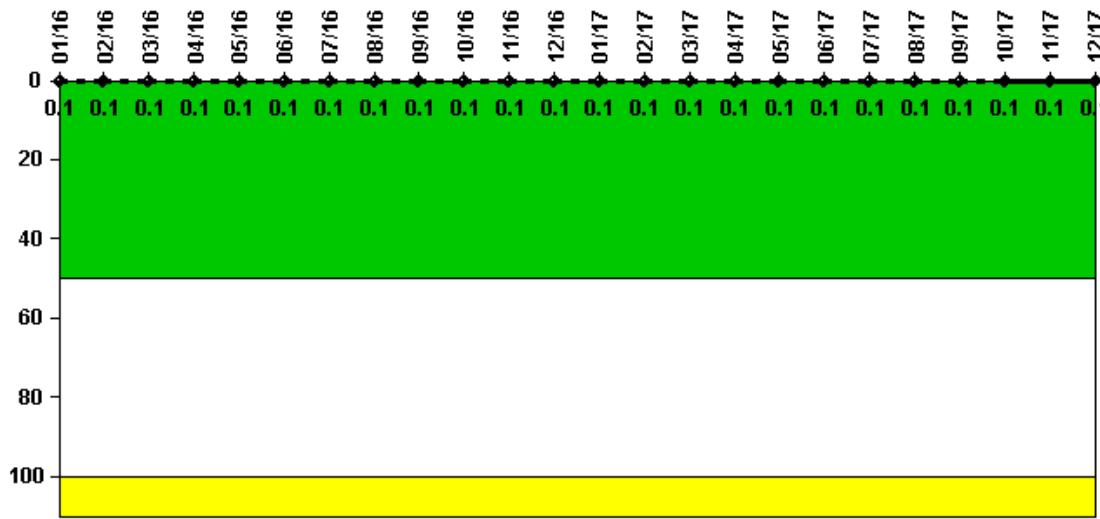
Mitigating Systems Performance Index, Cooling Water Systems

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (Δ CDF)	-8.91E-08	-8.97E-08	-9.03E-08	-4.53E-08	-1.24E-08	-1.24E-08	-1.02E-07	-1.14E-07
URI (Δ CDF)	-2.50E-07	-2.50E-07	-2.50E-07	-2.50E-07	-2.49E-07	-2.49E-07	-2.49E-07	-2.48E-07
PLE	NO							
Indicator value	-3.40E-07	-3.40E-07	-3.40E-07	-2.90E-07	-2.60E-07	-2.60E-07	-3.50E-07	-3.60E-07

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Licensee Comments: none

Reactor Coolant System Activity



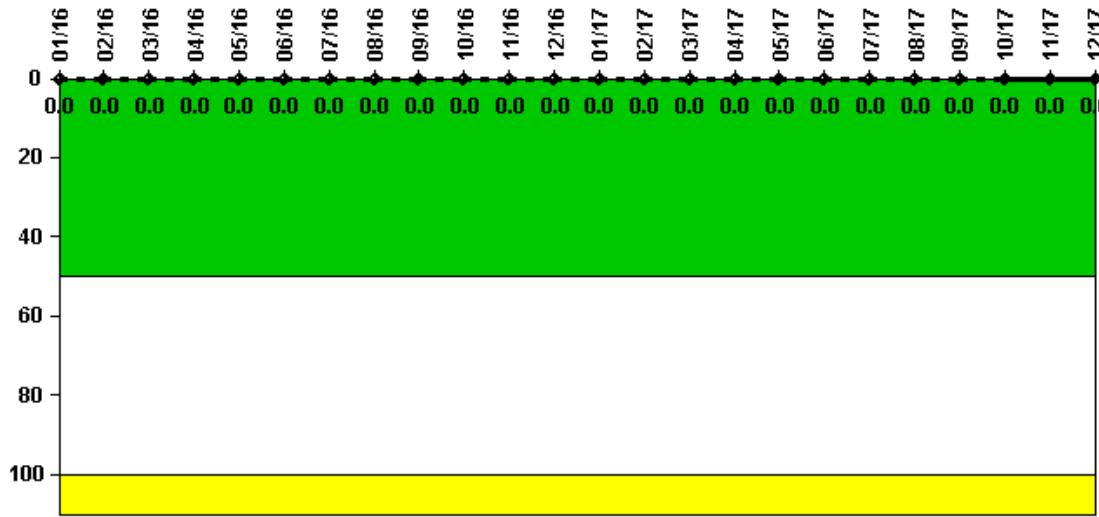
Thresholds: White > 50.0 Yellow > 100.0

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	0.000415	0.000444	0.000417	0.000303	0.000322	0.000484	0.000531	0.000540	0.000535	0.000598	0.000592	0.000369
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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	0.000694	0.000349	0.000276	0.000283	0.000316	0.000313	0.000328	0.000345	0.000367	0.000368	0.000390	0.000389
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

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Licensee Comments: none

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	0	0	0	0	0	0	0	0	0	0	0
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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
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Indicator value	0											
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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

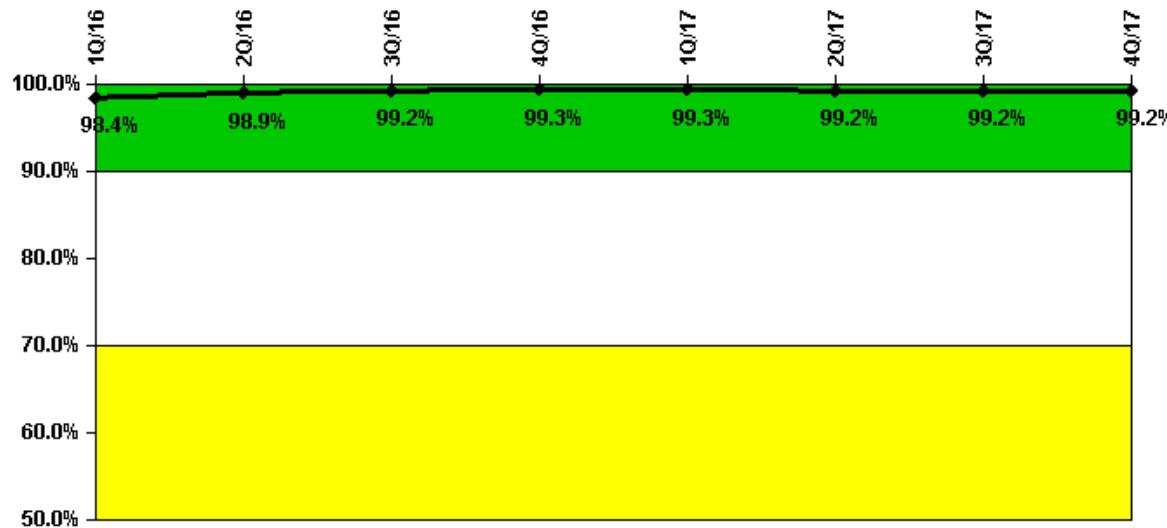
Maximum leakage	0	0	0	0	0	0	0	0	0	0	0	0
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Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
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Indicator value	0											
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Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

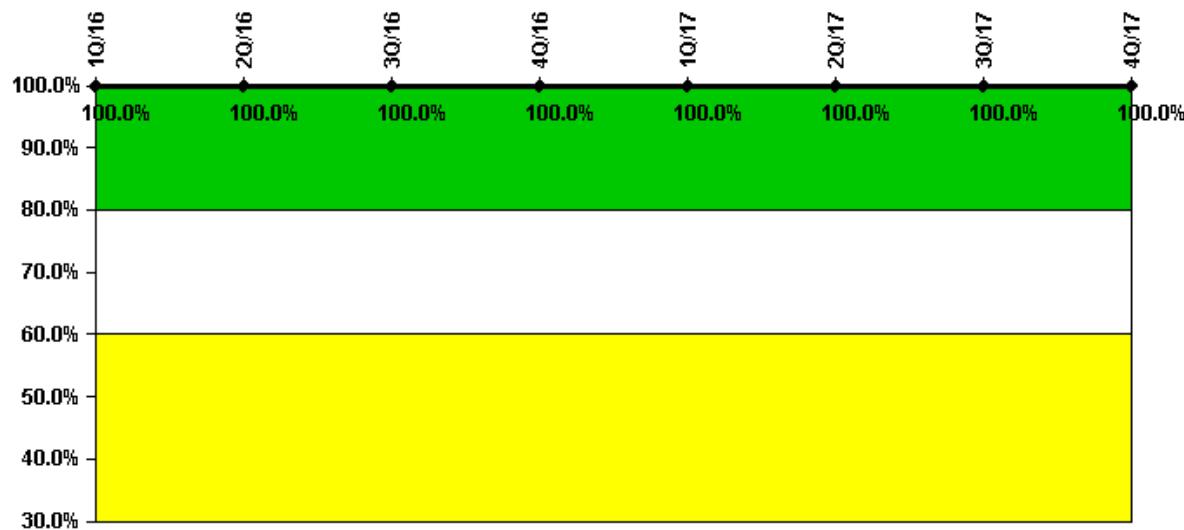
Notes

Drill/Exercise Performance	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful opportunities	42.0	30.0	74.0	71.0	8.0	45.0	63.0	58.0
Total opportunities	42.0	30.0	74.0	72.0	8.0	46.0	64.0	58.0

Indicator value **98.4% 98.9% 99.2% 99.3% 99.3% 99.2% 99.2% 99.2%**



Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

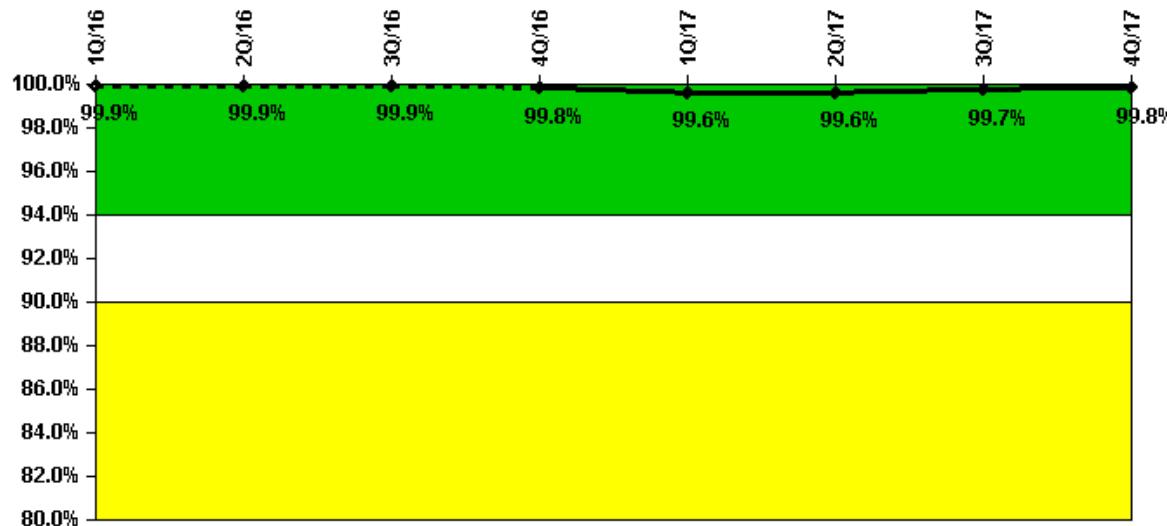
Notes

ERO Drill Participation	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Participating Key personnel	52.0	55.0	51.0	52.0	48.0	50.0	49.0	46.0
Total Key personnel	52.0	55.0	51.0	52.0	48.0	50.0	49.0	46.0

Indicator value 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%

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Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

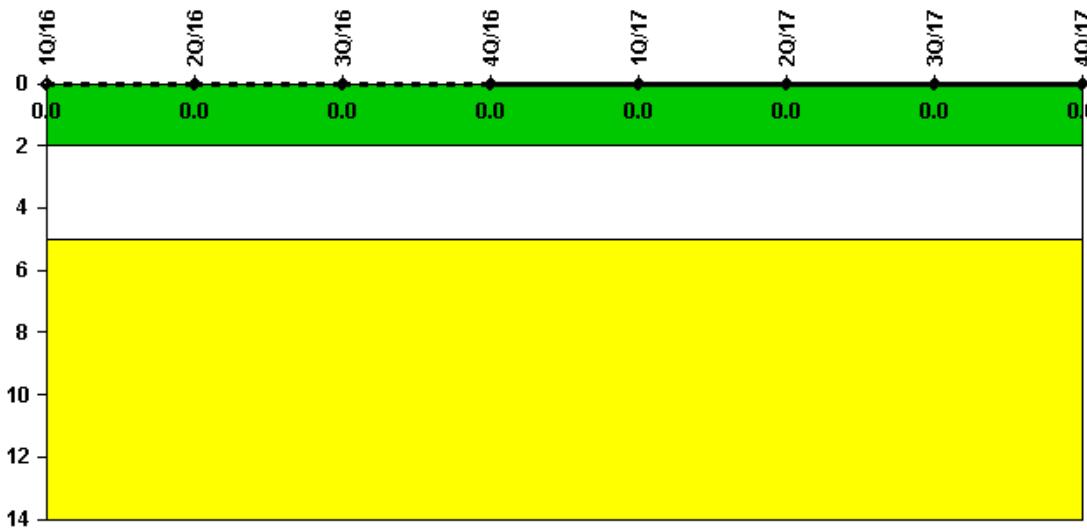
Notes

Alert & Notification System	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful siren-tests	949	948	946	945	943	947	949	949
Total sirens-tests	949	949	949	949	949	949	949	949

Indicator value 99.9% 99.9% 99.9% 99.8% 99.6% 99.6% 99.7% 99.8%

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Licensee Comments: none

Occupational Exposure Control Effectiveness

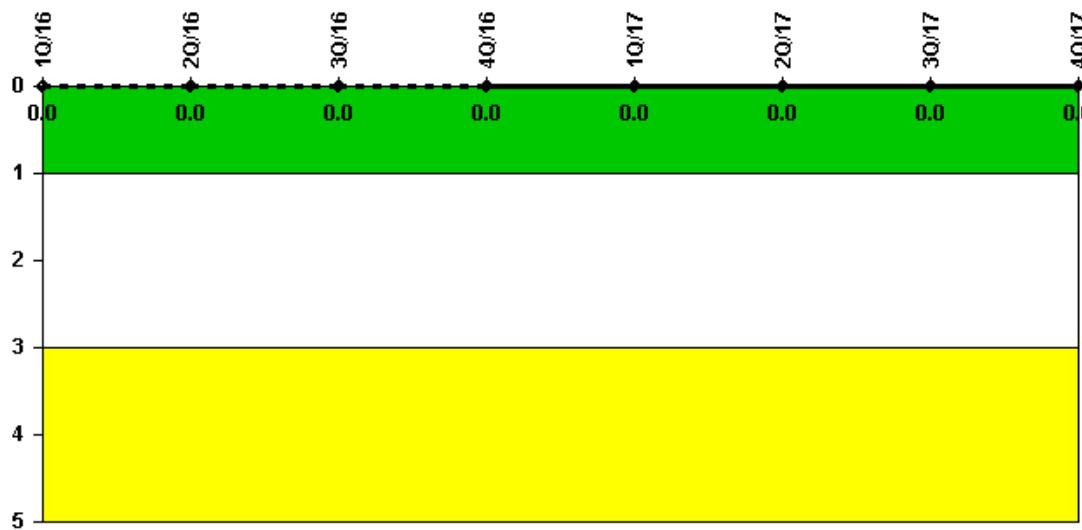
Thresholds: White > 2.0 Yellow > 5.0

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