Monticello

1Q/2000 Performance Indicators

Licensee's General Comments: none

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	2.0	0	0	0
Critical hours	2160.0	1558.0	2208.0	2209.0	919.1
Indicator value	**0.9**	**2.6**	**1.7**	**1.7**	**2.0**

Licensee Comments:

1Q/00: Plant Refueling Outage January 6 to February 29, 2000.

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	1.0	0	0	0
Indicator value	**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/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned power changes	0	1.0	0	2.0	0
Critical hours	2160.0	1558.0	2208.0	2209.0	919.1
Indicator value	**3.5**	**1.8**	**0.9**	**2.6**	**3.0**

Licensee Comments:

1Q/00: Plant Refueling Outage January 6 to February 29, 2000.

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	6.40	5.75	28.25	8.27	3.45
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Train 2					
Planned unavailable hours	6.76	5.51	8.85	7.94	5.49
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	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value				**1.8%**	**1.0%**

Licensee Comments:

1Q/00: The reported Unavailable and Fault Exposure Hours for the Emergency AC Power System have been changed based upon review of the historical information for the time period of 1Q1997 to 4Q1999. This change did not affect the color of the indicator.

4Q/99: The reported Unavailable and Fault Exposure Hours for the Emergency AC Power System have been changed based upon review of the historical information for the time period of 1Q1997 to 4Q1999. This change did not affect the color of the indicator.

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	4.20	0	9.08	11.42	19.34
Unplanned unavailable hours	0	50.30	0	23.22	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	1558.00	2208.00	2209.00	919.10
Indicator value				**1.4%**	**1.6%**

Licensee Comments:

1Q/00: Plant Refueling Outage January 6 to February 29, 2000.

4Q/99: Added 0.5 hours for recently discovered HPCI inoperability due to snubber changeout

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	5.38	5.15	26.67	163.76	6.74
Unplanned unavailable hours	0	0	3.17	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	1558.00	2208.00	2209.00	919.10
Indicator value				**1.6%**	**1.6%**

Licensee Comments:

1Q/00: Plant Refueling Outage January 6 to February 29, 2000.

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	9.20	43.25	1.43	0	42.09
Unplanned unavailable hours	0	1.25	0	0	0.32
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	16.80	0	66.71	0	36.72
Unplanned unavailable hours	0	0	0	0	0.32
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				**0.6%**	**0.8%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

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	0.000200	0.000300	0.000300	0.000280	0.000280	0.000300	0.000260	0.000250	0.000280	0.000280	N/A	0.000260
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0.1**

Licensee Comments:

3/00: Plant shut down in February. No chemistry samples taken.

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	1.870	1.720	1.720	1.740	1.740	1.730	1.700	1.750	1.700	1.700	1.100	1.800
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**9.4**	**8.6**	**8.6**	**8.7**	**8.7**	**8.7**	**8.5**	**8.8**	**8.5**	**8.5**	**5.5**	**9.0**

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	2.0	20.0	26.0	25.0	13.0
Total opportunities	2.0	20.0	26.0	25.0	16.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**96.8%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Participating Key personnel	0	80.0	82.0	77.0	72.0
Total Key personnel	0	110.0	95.0	85.0	79.0
Indicator value		**72.7%**	**86.3%**	**90.6%**	**91.1%**

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	239	240	232	235	235
Total sirens-tests	243	243	243	243	243
Indicator value	**97.8%**	**98.0%**	**97.8%**	**97.3%**	**96.9%**

Licensee Comments: none

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	1	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**1**

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	48.00	9.50	111.80	34.52	17.45
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	**0.028**	**0.024**	**0.026**	**0.012**	**0.010**

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	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: April 1, 2002

Monticello

2Q/2000 Performance Indicators

Licensee's General Comments: none

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	2.0	0	0	0	0
Critical hours	1558.0	2208.0	2209.0	919.1	2183.0
Indicator value	**2.6**	**1.7**	**1.7**	**2.0**	**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	1.0	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	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned power changes	1.0	0	2.0	0	0
Critical hours	1558.0	2208.0	2209.0	919.1	2183.0
Indicator value	**1.8**	**0.9**	**2.6**	**3.0**	**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	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	5.75	28.25	8.27	3.45	6.37
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	2183.00	2208.00	2209.00	2184.00	2183.00
Train 2					
Planned unavailable hours	5.51	8.85	7.94	5.49	6.27
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	2183.00	2208.00	2209.00	2184.00	2183.00
Indicator value			**1.8%**	**1.0%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0	9.08	11.42	19.34	51.53
Unplanned unavailable hours	50.30	0	23.22	0	3.90
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1558.00	2208.00	2209.00	919.10	2183.00
Indicator value			**1.4%**	**1.6%**	**1.8%**

Licensee Comments:

4Q/99: Added 0.5 hours for recently discovered HPCI inoperability due to snubber changeout

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	5.15	26.67	163.76	6.74	14.97
Unplanned unavailable hours	0	3.17	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1558.00	2208.00	2209.00	919.10	2183.00
Indicator value			**1.6%**	**1.6%**	**1.5%**

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/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	43.25	1.43	0	42.09	0.13
Unplanned unavailable hours	1.25	0	0	0.32	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	0	66.71	0	36.72	36.06
Unplanned unavailable hours	0	0	0	0.32	10.25
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			**0.6%**	**0.8%**	**0.9%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

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	0.000280	0.000280	0.000300	0.000260	0.000250	0.000280	0.000280	N/A	0.000260	0.000270	0.000250	0.000270
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**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	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum leakage	1.740	1.740	1.730	1.700	1.750	1.700	1.700	1.100	1.800	1.720	1.700	1.720
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.7**	**8.7**	**8.7**	**8.5**	**8.8**	**8.5**	**8.5**	**5.5**	**9.0**	**8.6**	**8.5**	**8.6**

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	20.0	26.0	25.0	13.0	62.0
Total opportunities	20.0	26.0	25.0	16.0	63.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**96.8%**	**97.4%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Participating Key personnel	80.0	82.0	77.0	72.0	71.0
Total Key personnel	110.0	95.0	85.0	79.0	74.0
Indicator value	**72.7%**	**86.3%**	**90.6%**	**91.1%**	**95.9%**

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	240	232	235	235	232
Total sirens-tests	243	243	243	243	243
Indicator value	**98.0%**	**97.8%**	**97.3%**	**96.9%**	**96.1%**

Licensee Comments: none

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	1	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**	**1**	**1**	**1**	**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	9.50	111.80	34.52	17.45	95.55
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	**0.024**	**0.026**	**0.012**	**0.010**	**0.015**

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

Monticello

3Q/2000 Performance Indicators

Licensee's General Comments: none

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	919.1	2183.0	2083.8
Indicator value	**1.7**	**1.7**	**2.0**	**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	**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/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned power changes	0	2.0	0	0	1.0
Critical hours	2208.0	2209.0	919.1	2183.0	2083.8
Indicator value	**0.9**	**2.6**	**3.0**	**1.9**	**2.8**

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/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	28.25	8.27	3.45	6.37	9.45
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2					
Planned unavailable hours	8.85	7.94	5.49	6.27	32.90
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	2184.00	2183.00	2208.00
Indicator value		**1.8%**	**1.0%**	**1.0%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	9.08	11.42	19.34	51.53	12.55
Unplanned unavailable hours	0	23.22	0	3.90	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	919.10	2183.00	2083.80
Indicator value		**1.4%**	**1.6%**	**1.8%**	**1.8%**

Licensee Comments:

4Q/99: Added 0.5 hours for recently discovered HPCI inoperability due to snubber changeout

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	26.67	163.76	6.74	14.97	8.75
Unplanned unavailable hours	3.17	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	919.10	2183.00	2083.80
Indicator value		**1.6%**	**1.6%**	**1.5%**	**1.5%**

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/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	1.43	0	42.09	0.13	19.60
Unplanned unavailable hours	0	0	0.32	0	40.23
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	66.71	0	36.72	36.06	12.80
Unplanned unavailable hours	0	0	0.32	10.25	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		**0.6%**	**0.8%**	**0.9%**	**0.7%**

Licensee Comments:

3Q/00: Following further engineering review of 1st quarter 2000 data for "A" RHR loop, 6.72 hours were removed from the Unplanned Unavailable Hours. The removal of these hours did not affect the color of the indicator. The indicator remains in the GREEN band.

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Safety System Functional Failures	1	1	0	0	0
Indicator value	**2**	**3**	**3**	**2**	**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	0.000260	0.000250	0.000280	0.000280	N/A	0.000260	0.000270	0.000250	0.000270	0.000420	0.000260	0.000240
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**

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	1.700	1.750	1.700	1.700	1.100	1.800	1.720	1.700	1.720	1.680	1.700	1.700
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.5**	**8.8**	**8.5**	**8.5**	**5.5**	**9.0**	**8.6**	**8.5**	**8.6**	**8.4**	**8.5**	**8.5**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful opportunities	26.0	25.0	13.0	62.0	36.0
Total opportunities	26.0	25.0	16.0	63.0	38.0
Indicator value	**100.0%**	**100.0%**	**96.8%**	**97.4%**	**96.9%**

Licensee Comments: none

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	82.0	77.0	72.0	71.0	68.0
Total Key personnel	95.0	85.0	79.0	74.0	79.0
Indicator value	**86.3%**	**90.6%**	**91.1%**	**95.9%**	**86.1%**

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	232	235	235	232	235
Total sirens-tests	243	243	243	243	243
Indicator value	**97.8%**	**97.3%**	**96.9%**	**96.1%**	**96.4%**

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	**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/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	111.80	34.52	17.45	95.55	55.21
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	**0.026**	**0.012**	**0.010**	**0.015**	**0.012**

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

Monticello

4Q/2000 Performance Indicators

Licensee's General Comments: none

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	919.1	2183.0	2083.8	2209.0
Indicator value	**1.7**	**2.0**	**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	2.0	0	0	1.0	0
Critical hours	2209.0	919.1	2183.0	2083.8	2209.0
Indicator value	**2.6**	**3.0**	**1.9**	**2.8**	**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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	8.27	3.45	6.37	9.45	8.45
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Train 2					
Planned unavailable hours	7.94	5.49	6.27	32.90	11.03
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	2184.00	2183.00	2208.00	2209.00
Indicator value	**1.8%**	**1.0%**	**1.0%**	**1.1%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	11.42	19.34	51.53	12.55	17.55
Unplanned unavailable hours	23.22	0	3.90	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	919.10	2183.00	2083.80	2209.00
Indicator value	**1.4%**	**1.6%**	**1.8%**	**1.8%**	**1.8%**

Licensee Comments:

4Q/99: Added 0.5 hours for recently discovered HPCI inoperability due to snubber changeout

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	163.76	6.74	14.97	8.75	20.40
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	919.10	2183.00	2083.80	2209.00
Indicator value	**1.6%**	**1.6%**	**1.5%**	**1.5%**	**1.5%**

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
Train 1					
Planned unavailable hours	0	42.09	0.13	19.60	0.18
Unplanned unavailable hours	0	0.32	0	40.23	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	36.72	36.06	12.80	32.40
Unplanned unavailable hours	0	0.32	10.25	0	13.92
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	**0.6%**	**0.8%**	**0.9%**	**0.7%**	**0.8%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

Licensee Comments:

4Q/00: LER2000-015 Rev 0

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	0.000280	N/A	0.000260	0.000270	0.000250	0.000270	0.000420	0.000260	0.000240	0.000230	0.000260	0.000250
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indicator value	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**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	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage	1.700	1.100	1.800	1.720	1.700	1.720	1.680	1.700	1.700	1.760	1.700	1.700
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.5**	**5.5**	**9.0**	**8.6**	**8.5**	**8.6**	**8.4**	**8.5**	**8.5**	**8.8**	**8.5**	**8.5**

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	25.0	13.0	62.0	36.0	40.0
Total opportunities	25.0	16.0	63.0	38.0	40.0
Indicator value	**100.0%**	**96.8%**	**97.4%**	**96.9%**	**97.4%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Participating Key personnel	77.0	72.0	71.0	68.0	77.0
Total Key personnel	85.0	79.0	74.0	79.0	80.0
Indicator value	**90.6%**	**91.1%**	**95.9%**	**86.1%**	**96.3%**

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
Successful siren-tests	235	235	232	235	238
Total sirens-tests	243	243	243	243	243
Indicator value	**97.3%**	**96.9%**	**96.1%**	**96.4%**	**96.7%**

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	**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/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

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
IDS compensatory hours	34.52	17.45	95.55	55.21	29.17
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	**0.012**	**0.010**	**0.015**	**0.012**	**0.011**

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

Last Modified: March 28, 2002

Monticello

1Q/2001 Performance Indicators

Licensee's General Comments: none

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	919.1	2183.0	2083.8	2209.0	1330.5
Indicator value	**1.7**	**2.0**	**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	2.0	0	0	1.0	0	2.0
Critical hours	2209.0	919.1	2183.0	2083.8	2209.0	1330.5
Indicator value	**2.6**	**3.0**	**1.9**	**2.8**	**0.9**	**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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	8.27	3.45	6.37	9.45	8.45	11.13
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	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	7.94	5.49	6.27	32.90	11.03	10.68
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	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**1.8%**	**1.0%**	**1.0%**	**1.1%**	**1.1%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	11.42	19.34	51.53	12.55	17.55	20.20
Unplanned unavailable hours	23.22	0	3.90	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	919.10	2183.00	2083.80	2209.00	1330.50
Indicator value	**1.4%**	**1.6%**	**1.8%**	**1.8%**	**1.8%**	**1.8%**

Licensee Comments:

4Q/99: Added 0.5 hours for recently discovered HPCI inoperability due to snubber changeout

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	163.76	6.74	14.97	8.75	20.40	14.23
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	919.10	2183.00	2083.80	2209.00	1330.50
Indicator value	**1.6%**	**1.6%**	**1.5%**	**1.5%**	**1.5%**	**1.2%**

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/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0	42.09	0.13	19.60	0.18	58.00
Unplanned unavailable hours	0	0.32	0	40.23	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	36.72	36.06	12.80	32.40	0
Unplanned unavailable hours	0	0.32	10.25	0	13.92	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
Indicator value	**0.6%**	**0.8%**	**0.9%**	**0.7%**	**0.8%**	**0.8%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.000260	0.000250	0.000280	0.000280	N/A	0.000260	0.000270	0.000250	0.000270	0.000420	0.000260	0.000240
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.000230	0.000260	0.000250	0.000240	0.000230	N/A
Technical specification limit	0.3	0.3	0.3	0.3	0.3	2.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**

Licensee Comments:

3/01: Plant shutdown entire month of March, sample not required. Amendment 117 (3/7/01) increased the Technical Specification limit from 0.25 to 2.0 uCi/gm DEI.

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	1.700	1.750	1.700	1.700	1.100	1.800	1.720	1.700	1.720	1.680	1.700	1.700
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.5**	**8.8**	**8.5**	**8.5**	**5.5**	**9.0**	**8.6**	**8.5**	**8.6**	**8.4**	**8.5**	**8.5**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	1.760	1.700	1.700	1.700	1.500	N/A
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.8**	**8.5**	**8.5**	**8.5**	**7.5**	**N/A**

Licensee Comments:

3/01: Plant shutdown during entire month of March.

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	25.0	13.0	62.0	36.0	40.0	78.0
Total opportunities	25.0	16.0	63.0	38.0	40.0	81.0
Indicator value	**100.0%**	**96.8%**	**97.4%**	**96.9%**	**97.4%**	**97.1%**

Licensee Comments: none

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	77.0	72.0	71.0	68.0	77.0	77.0
Total Key personnel	85.0	79.0	74.0	79.0	80.0	79.0
Indicator value	**90.6%**	**91.1%**	**95.9%**	**86.1%**	**96.3%**	**97.5%**

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	235	235	232	235	238	237
Total sirens-tests	243	243	243	243	243	243
Indicator value	**97.3%**	**96.9%**	**96.1%**	**96.4%**	**96.7%**	**96.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

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	34.52	17.45	95.55	55.21	29.17	166.32
CCTV compensatory hours	0	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.012**	**0.010**	**0.015**	**0.012**	**0.011**	**0.020**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Last Modified: March 28, 2002

Monticello

2Q/2001 Performance Indicators

Licensee's General Comments: none

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	919.1	2183.0	2083.8	2209.0	1330.5	2130.1
Indicator value	**1.7**	**2.0**	**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	2.0	0	0	1.0	0	2.0	2.0
Critical hours	2209.0	919.1	2183.0	2083.8	2209.0	1330.5	2130.1
Indicator value	**2.6**	**3.0**	**1.9**	**2.8**	**0.9**	**2.7**	**4.5**

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	8.27	3.45	6.37	9.45	8.45	11.13	8.98
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	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	7.94	5.49	6.27	32.90	11.03	10.68	4.48
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	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**1.8%**	**1.0%**	**1.0%**	**1.1%**	**1.1%**	**1.1%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	11.42	19.34	51.53	12.55	17.55	20.20	24.60
Unplanned unavailable hours	23.22	0	3.90	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	919.10	2183.00	2083.80	2209.00	1330.50	2130.10
Indicator value	**1.4%**	**1.6%**	**1.8%**	**1.8%**	**1.8%**	**1.8%**	**1.9%**

Licensee Comments:

4Q/99: Added 0.5 hours for recently discovered HPCI inoperability due to snubber changeout

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	163.76	6.74	14.97	8.75	20.40	14.23	22.35
Unplanned unavailable hours	0	0	0	0	0	0	41.80
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	919.10	2183.00	2083.80	2209.00	1330.50	2130.10
Indicator value	**1.6%**	**1.6%**	**1.5%**	**1.5%**	**1.5%**	**1.2%**	**1.5%**

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	42.09	0.13	19.60	0.18	58.00	144.98
Unplanned unavailable hours	0	0.32	0	40.23	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	36.72	36.06	12.80	32.40	0	0.13
Unplanned unavailable hours	0	0.32	10.25	0	13.92	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
Indicator value	**0.6%**	**0.8%**	**0.9%**	**0.7%**	**0.8%**	**0.8%**	**1.1%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

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

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	0.000260	0.000250	0.000280	0.000280	N/A	0.000260	0.000270	0.000250	0.000270	0.000420	0.000260	0.000240
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.000230	0.000260	0.000250	0.000240	0.000230	N/A	0.000263	0.000283	0.000192
Technical specification limit	0.3	0.3	0.3	0.3	0.3	2.0	2.0	2.0	2.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	1.700	1.750	1.700	1.700	1.100	1.800	1.720	1.700	1.720	1.680	1.700	1.700
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.5**	**8.8**	**8.5**	**8.5**	**5.5**	**9.0**	**8.6**	**8.5**	**8.6**	**8.4**	**8.5**	**8.5**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	1.760	1.700	1.700	1.700	1.500	N/A	1.500	1.600	1.500
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.8**	**8.5**	**8.5**	**8.5**	**7.5**	**N/A**	**7.5**	**8.0**	**7.5**

Licensee Comments: none

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	25.0	13.0	62.0	36.0	40.0	78.0	42.0
Total opportunities	25.0	16.0	63.0	38.0	40.0	81.0	45.0
Indicator value	**100.0%**	**96.8%**	**97.4%**	**96.9%**	**97.4%**	**97.1%**	**96.4%**

Licensee Comments: none

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	77.0	72.0	71.0	68.0	77.0	77.0	84.0
Total Key personnel	85.0	79.0	74.0	79.0	80.0	79.0	84.0
Indicator value	**90.6%**	**91.1%**	**95.9%**	**86.1%**	**96.3%**	**97.5%**	**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
Successful siren-tests	235	235	232	235	238	237	236
Total sirens-tests	243	243	243	243	243	243	243
Indicator value	**97.3%**	**96.9%**	**96.1%**	**96.4%**	**96.7%**	**96.9%**	**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	1Q/01	2Q/01
High radiation area occurrences	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0
Indicator value	**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	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

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	34.52	17.45	95.55	55.21	29.17	166.32	4.60
CCTV compensatory hours	0	0	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.012**	**0.010**	**0.015**	**0.012**	**0.011**	**0.020**	**0.015**

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	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Last Modified: March 27, 2002

Monticello

3Q/2001 Performance Indicators

Licensee's General Comments: none

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	919.1	2183.0	2083.8	2209.0	1330.5	2130.1	2208.0
Indicator value	**1.7**	**2.0**	**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**	**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	3Q/01
Unplanned power changes	2.0	0	0	1.0	0	2.0	2.0	1.0
Critical hours	2209.0	919.1	2183.0	2083.8	2209.0	1330.5	2130.1	2208.0
Indicator value	**2.6**	**3.0**	**1.9**	**2.8**	**0.9**	**2.7**	**4.5**	**4.4**

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	8.27	3.45	6.37	9.45	8.45	11.13	8.98	8.27
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	7.94	5.49	6.27	32.90	11.03	10.68	4.48	10.48
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	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**1.8%**	**1.0%**	**1.0%**	**1.1%**	**1.1%**	**1.1%**	**0.5%**	**0.4%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	11.42	19.34	51.53	12.55	17.55	20.20	24.60	20.98
Unplanned unavailable hours	23.22	0	3.90	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	2209.00	919.10	2183.00	2083.80	2209.00	1330.50	2130.10	2208.00
Indicator value	**1.4%**	**1.6%**	**1.8%**	**1.8%**	**1.8%**	**1.8%**	**1.9%**	**1.2%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	163.76	6.74	14.97	8.75	20.40	14.23	22.35	24.62
Unplanned unavailable hours	0	0	0	0	0	0	41.80	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	2209.00	919.10	2183.00	2083.80	2209.00	1330.50	2130.10	2208.00
Indicator value	**1.6%**	**1.6%**	**1.5%**	**1.5%**	**1.5%**	**1.2%**	**1.5%**	**1.6%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	0	42.09	0.13	19.60	0.18	58.00	144.98	0.18
Unplanned unavailable hours	0	0.32	0	40.23	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	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	36.72	36.06	12.80	32.40	0	0.13	10.48
Unplanned unavailable hours	0	0.32	10.25	0	13.92	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	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.6%**	**0.8%**	**0.9%**	**0.7%**	**0.8%**	**0.8%**	**1.1%**	**1.1%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

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

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	0.000260	0.000250	0.000280	0.000280	N/A	0.000260	0.000270	0.000250	0.000270	0.000420	0.000260	0.000240
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**

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	0.000230	0.000260	0.000250	0.000240	0.000230	N/A	0.000263	0.000283	0.000192	0.000192	0.000332	0.000202
Technical specification limit	0.3	0.3	0.3	0.3	0.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	1.700	1.750	1.700	1.700	1.100	1.800	1.720	1.700	1.720	1.680	1.700	1.700
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.5**	**8.8**	**8.5**	**8.5**	**5.5**	**9.0**	**8.6**	**8.5**	**8.6**	**8.4**	**8.5**	**8.5**

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	1.760	1.700	1.700	1.700	1.500	N/A	1.500	1.600	1.500	1.500	1.600	1.500
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.8**	**8.5**	**8.5**	**8.5**	**7.5**	**N/A**	**7.5**	**8.0**	**7.5**	**7.5**	**8.0**	**7.5**

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	25.0	13.0	62.0	36.0	40.0	78.0	42.0	40.0
Total opportunities	25.0	16.0	63.0	38.0	40.0	81.0	45.0	45.0
Indicator value	**100.0%**	**96.8%**	**97.4%**	**96.9%**	**97.4%**	**97.1%**	**96.4%**	**95.2%**

Licensee Comments: none

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	77.0	72.0	71.0	68.0	77.0	77.0	84.0	86.0
Total Key personnel	85.0	79.0	74.0	79.0	80.0	79.0	84.0	95.0
Indicator value	**90.6%**	**91.1%**	**95.9%**	**86.1%**	**96.3%**	**97.5%**	**100.0%**	**90.5%**

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	235	235	232	235	238	237	236	231
Total sirens-tests	243	243	243	243	243	243	243	243
Indicator value	**97.3%**	**96.9%**	**96.1%**	**96.4%**	**96.7%**	**96.9%**	**97.3%**	**96.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/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

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	34.52	17.45	95.55	55.21	29.17	166.32	4.60	131.58
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.012**	**0.010**	**0.015**	**0.012**	**0.011**	**0.020**	**0.015**	**0.019**

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	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Last Modified: March 26, 2002

Monticello

4Q/2001 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	919.1	2183.0	2083.8	2209.0	1330.5	2130.1	2208.0	1205.0
Indicator value	**2.0**	**0**	**0**	**0**	**0**	**0**	**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/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**	**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/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned power changes	0	0	1.0	0	2.0	2.0	1.0	0
Critical hours	919.1	2183.0	2083.8	2209.0	1330.5	2130.1	2208.0	1205.0
Indicator value	**3.0**	**1.9**	**2.8**	**0.9**	**2.7**	**4.5**	**4.4**	**5.1**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	3.45	6.37	9.45	8.45	11.13	8.98	8.27	25.93
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	5.49	6.27	32.90	11.03	10.68	4.48	10.48	5.25
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**1.0%**	**1.0%**	**1.1%**	**1.1%**	**1.1%**	**0.5%**	**0.4%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	19.34	51.53	12.55	17.55	20.20	24.60	20.98	20.85
Unplanned unavailable hours	0	3.90	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	919.10	2183.00	2083.80	2209.00	1330.50	2130.10	2208.00	1205.00
Indicator value	**1.6%**	**1.8%**	**1.8%**	**1.8%**	**1.8%**	**1.9%**	**1.2%**	**1.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	6.74	14.97	8.75	20.40	14.23	22.35	24.62	23.07
Unplanned unavailable hours	0	0	0	0	0	41.80	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	919.10	2183.00	2083.80	2209.00	1330.50	2130.10	2208.00	1205.00
Indicator value	**1.6%**	**1.5%**	**1.5%**	**1.5%**	**1.2%**	**1.5%**	**1.6%**	**1.7%**

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	42.09	0.13	19.60	0.18	58.00	144.98	0.18	9.33
Unplanned unavailable hours	0.32	0	40.23	0	0	0	0	2.87
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	36.72	36.06	12.80	32.40	0	0.13	10.48	124.82
Unplanned unavailable hours	0.32	10.25	0	13.92	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	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.8%**	**0.9%**	**0.7%**	**0.8%**	**0.8%**	**1.1%**	**1.1%**	**1.4%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

Licensee Comments:

4Q/01: Revised 2Q 2001 data to include 3 SSFF's. This revision does not affect the color of the indicator.

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	0.000280	N/A	0.000260	0.000270	0.000250	0.000270	0.000420	0.000260	0.000240	0.000230	0.000260	0.000250
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
Indicator value	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

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	0.000240	0.000230	N/A	0.000263	0.000283	0.000192	0.000192	0.000332	0.000202	0.000304	0.000242	0.000283
Technical specification limit	0.3	0.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	5.0	5.0	5.0
Indicator value	**0.1**	**0.1**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage	1.700	1.100	1.800	1.720	1.700	1.720	1.680	1.700	1.700	1.760	1.700	1.700
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.5**	**5.5**	**9.0**	**8.6**	**8.5**	**8.6**	**8.4**	**8.5**	**8.5**	**8.8**	**8.5**	**8.5**

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	1.700	1.500	N/A	1.500	1.600	1.500	1.500	1.600	1.500	1.600	1.500	1.600
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.5**	**7.5**	**N/A**	**7.5**	**8.0**	**7.5**	**7.5**	**8.0**	**7.5**	**8.0**	**7.5**	**8.0**

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	13.0	62.0	36.0	40.0	78.0	42.0	40.0	24.0
Total opportunities	16.0	63.0	38.0	40.0	81.0	45.0	45.0	24.0
Indicator value	**96.8%**	**97.4%**	**96.9%**	**97.4%**	**97.1%**	**96.4%**	**95.2%**	**95.2%**

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	72.0	71.0	68.0	77.0	77.0	84.0	86.0	83.0
Total Key personnel	79.0	74.0	79.0	80.0	79.0	84.0	95.0	94.0
Indicator value	**91.1%**	**95.9%**	**86.1%**	**96.3%**	**97.5%**	**100.0%**	**90.5%**	**88.3%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful siren-tests	235	232	235	238	237	236	231	239
Total sirens-tests	243	243	243	243	243	243	243	243
Indicator value	**96.9%**	**96.1%**	**96.4%**	**96.7%**	**96.9%**	**97.3%**	**96.9%**	**97.0%**

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	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	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	17.45	95.55	55.21	29.17	166.32	4.60	131.58	39.99
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.010**	**0.015**	**0.012**	**0.011**	**0.020**	**0.015**	**0.019**	**0.020**

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	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Last Modified: March 15, 2002

Monticello

1Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned scrams	0	0	0	0	0	0	1.0	1.0
Critical hours	2183.0	2083.8	2209.0	1330.5	2130.1	2208.0	1205.0	2072.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**1.0**	**1.8**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/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**	**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/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned power changes	0	1.0	0	2.0	2.0	1.0	0	0
Critical hours	2183.0	2083.8	2209.0	1330.5	2130.1	2208.0	1205.0	2072.0
Indicator value	**1.9**	**2.8**	**0.9**	**2.7**	**4.5**	**4.4**	**5.1**	**2.8**

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/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	6.37	9.45	8.45	11.13	8.98	8.27	25.93	12.02
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	6.27	32.90	11.03	10.68	4.48	10.48	5.25	6.88
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**1.0%**	**1.1%**	**1.1%**	**1.1%**	**0.5%**	**0.4%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	51.53	12.55	17.55	20.20	24.60	20.98	20.85	42.10
Unplanned unavailable hours	3.90	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	2083.80	2209.00	1330.50	2130.10	2208.00	1205.00	2072.00
Indicator value	**1.8%**	**1.8%**	**1.8%**	**1.8%**	**1.9%**	**1.2%**	**1.3%**	**1.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	14.97	8.75	20.40	14.23	22.35	24.62	23.07	19.15
Unplanned unavailable hours	0	0	0	0	41.80	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	2083.80	2209.00	1330.50	2130.10	2208.00	1205.00	2072.00
Indicator value	**1.5%**	**1.5%**	**1.5%**	**1.2%**	**1.5%**	**1.6%**	**1.7%**	**1.8%**

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	0.13	19.60	0.18	58.00	144.98	0.18	9.33	7.37
Unplanned unavailable hours	0	40.23	0	0	0	0	2.87	0
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	36.06	12.80	32.40	0	0.13	10.48	124.82	0.65
Unplanned unavailable hours	10.25	0	13.92	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	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.9%**	**0.7%**	**0.8%**	**0.8%**	**1.1%**	**1.1%**	**1.4%**	**1.4%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

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	0.000270	0.000250	0.000270	0.000420	0.000260	0.000240	0.000230	0.000260	0.000250	0.000240	0.000230	N/A
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**

Reactor Coolant System Activity	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum activity	0.000263	0.000283	0.000192	0.000192	0.000332	0.000202	0.000304	0.000242	0.000283	0.000229	0.000214	0.000229
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	5.0	5.0	5.0	5.0	5.0	5.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	1.720	1.700	1.720	1.680	1.700	1.700	1.760	1.700	1.700	1.700	1.500	N/A
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.6**	**8.5**	**8.6**	**8.4**	**8.5**	**8.5**	**8.8**	**8.5**	**8.5**	**8.5**	**7.5**	**N/A**

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	1.500	1.600	1.500	1.500	1.600	1.500	1.600	1.500	1.600	1.600	1.500	1.600
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**7.5**	**8.0**	**7.5**	**7.5**	**8.0**	**7.5**	**8.0**	**7.5**	**8.0**	**8.0**	**7.5**	**8.0**

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	62.0	36.0	40.0	78.0	42.0	40.0	24.0	71.0
Total opportunities	63.0	38.0	40.0	81.0	45.0	45.0	24.0	73.0
Indicator value	**97.4%**	**96.9%**	**97.4%**	**97.1%**	**96.4%**	**95.2%**	**95.2%**	**96.1%**

Licensee Comments: none

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	71.0	68.0	77.0	77.0	84.0	86.0	83.0	77.0
Total Key personnel	74.0	79.0	80.0	79.0	84.0	95.0	94.0	82.0
Indicator value	**95.9%**	**86.1%**	**96.3%**	**97.5%**	**100.0%**	**90.5%**	**88.3%**	**93.9%**

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	232	235	238	237	236	231	239	241
Total sirens-tests	243	243	243	243	243	243	243	243
Indicator value	**96.1%**	**96.4%**	**96.7%**	**96.9%**	**97.3%**	**96.9%**	**97.0%**	**97.4%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**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/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	95.55	55.21	29.17	166.32	4.60	131.58	39.99	23.54
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.015**	**0.012**	**0.011**	**0.020**	**0.015**	**0.019**	**0.020**	**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	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: May 1, 2002

Monticello

2Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned scrams	0	0	0	0	0	1.0	1.0	0
Critical hours	2083.8	2209.0	1330.5	2130.1	2208.0	1205.0	2072.0	2183.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**1.0**	**1.8**	**1.8**

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/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**	**1.0**	**1.0**	**1.0**	**0**

Licensee Comments: none

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	1.0	0	2.0	2.0	1.0	0	0	1.0
Critical hours	2083.8	2209.0	1330.5	2130.1	2208.0	1205.0	2072.0	2183.0
Indicator value	**2.8**	**0.9**	**2.7**	**4.5**	**4.4**	**5.1**	**2.8**	**1.8**

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/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	9.45	8.45	11.13	8.98	8.27	25.93	12.02	33.27
Unplanned unavailable hours	0	0	0	0	0	0	0	2.33
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	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	32.90	11.03	10.68	4.48	10.48	5.25	6.88	8.24
Unplanned unavailable hours	0	0	0	0	0	0	0	31.78
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	**1.1%**	**1.1%**	**1.1%**	**0.5%**	**0.4%**	**0.5%**	**0.5%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	**3Q/00**	**4Q/00**	**1Q/01**	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**
Train 1								
Planned unavailable hours	12.55	17.55	20.20	24.60	20.98	20.85	42.10	53.00
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2083.80	2209.00	1330.50	2130.10	2208.00	1205.00	2072.00	2183.00
Indicator value	**1.8%**	**1.8%**	**1.8%**	**1.9%**	**1.2%**	**1.3%**	**1.5%**	**1.4%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	8.75	20.40	14.23	22.35	24.62	23.07	19.15	7.23
Unplanned unavailable hours	0	0	0	41.80	0	0	0	31.90
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2083.80	2209.00	1330.50	2130.10	2208.00	1205.00	2072.00	2183.00
Indicator value	**1.5%**	**1.5%**	**1.2%**	**1.5%**	**1.6%**	**1.7%**	**1.8%**	**1.9%**

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	19.60	0.18	58.00	144.98	0.18	9.33	7.37	0
Unplanned unavailable hours	40.23	0	0	0	0	2.87	0	0
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	12.80	32.40	0	0.13	10.48	124.82	0.65	12.93
Unplanned unavailable hours	0	13.92	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	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.7%**	**0.8%**	**0.8%**	**1.1%**	**1.1%**	**1.4%**	**1.4%**	**1.3%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

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	0.000420	0.000260	0.000240	0.000230	0.000260	0.000250	0.000240	0.000230	N/A	0.000263	0.000283	0.000192
Technical specification limit	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	2.0	2.0	2.0	2.0
Indicator value	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0**	**0**	**0**

Reactor Coolant System Activity	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum activity	0.000192	0.000332	0.000202	0.000304	0.000242	0.000283	0.000229	0.000214	0.000229	0.000295	0.000217	0.000139
Technical specification limit	2.0	2.0	2.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	1.680	1.700	1.700	1.760	1.700	1.700	1.700	1.500	N/A	1.500	1.600	1.500
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.4**	**8.5**	**8.5**	**8.8**	**8.5**	**8.5**	**8.5**	**7.5**	**N/A**	**7.5**	**8.0**	**7.5**

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	1.500	1.600	1.500	1.600	1.500	1.600	1.600	1.500	1.600	1.600	1.500	1.500
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**7.5**	**8.0**	**7.5**	**8.0**	**7.5**	**8.0**	**8.0**	**7.5**	**8.0**	**8.0**	**7.5**	**7.5**

Licensee Comments: none

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	36.0	40.0	78.0	42.0	40.0	24.0	70.0	36.0
Total opportunities	38.0	40.0	81.0	45.0	45.0	24.0	72.0	36.0
Indicator value	**96.9%**	**97.4%**	**97.1%**	**96.4%**	**95.2%**	**95.2%**	**96.1%**	**96.1%**

Licensee Comments:

2Q/02: Revised reported numbers for 1Q2002. This revision has no affect on the color of the indicator.

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	68.0	77.0	77.0	84.0	86.0	83.0	77.0	82.0
Total Key personnel	79.0	80.0	79.0	84.0	95.0	94.0	82.0	86.0
Indicator value	**86.1%**	**96.3%**	**97.5%**	**100.0%**	**90.5%**	**88.3%**	**93.9%**	**95.3%**

Licensee Comments: none

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	235	238	237	236	231	239	241	241
Total sirens-tests	243	243	243	243	243	243	243	243
Indicator value	**96.4%**	**96.7%**	**96.9%**	**97.3%**	**96.9%**	**97.0%**	**97.4%**	**97.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
High radiation area occurrences	0	0	0	0	0	0	0	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

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

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	55.21	29.17	166.32	4.60	131.58	39.99	23.54	23.14
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.012**	**0.011**	**0.020**	**0.015**	**0.019**	**0.020**	**0.011**	**0.012**

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

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: July 31, 2002

Monticello

3Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned scrams	0	0	0	0	1.0	1.0	0	0
Critical hours	2209.0	1330.5	2130.1	2208.0	1205.0	2072.0	2183.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**1.0**	**1.8**	**1.8**	**1.8**

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/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**	**1.0**	**1.0**	**1.0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned power changes	0	2.0	2.0	1.0	0	0	1.0	0
Critical hours	2209.0	1330.5	2130.1	2208.0	1205.0	2072.0	2183.0	2208.0
Indicator value	**0.9**	**2.7**	**4.5**	**4.4**	**5.1**	**2.8**	**1.8**	**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	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	8.45	11.13	8.98	8.27	25.93	12.02	33.27	7.57
Unplanned unavailable hours	0	0	0	0	0	0	2.33	2.15
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	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	11.03	10.68	4.48	10.48	5.25	6.88	8.24	9.20
Unplanned unavailable hours	0	0	0	0	0	0	31.78	52.40
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	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**1.1%**	**1.1%**	**0.5%**	**0.4%**	**0.5%**	**0.5%**	**0.6%**	**0.7%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	**4Q/00**	**1Q/01**	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**
Train 1								
Planned unavailable hours	17.55	20.20	24.60	20.98	20.85	42.10	53.00	28.40
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	2209.00	1330.50	2130.10	2208.00	1205.00	2072.00	2183.00	2208.00
Indicator value	**1.8%**	**1.8%**	**1.9%**	**1.2%**	**1.3%**	**1.5%**	**1.4%**	**1.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	20.40	14.23	22.35	24.62	23.07	19.15	7.23	24.25
Unplanned unavailable hours	0	0	41.80	0	0	0	31.90	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	2209.00	1330.50	2130.10	2208.00	1205.00	2072.00	2183.00	2208.00
Indicator value	**1.5%**	**1.2%**	**1.5%**	**1.6%**	**1.7%**	**1.8%**	**1.9%**	**1.8%**

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	0.18	58.00	144.98	0.18	9.33	7.37	0	6.43
Unplanned unavailable hours	0	0	0	0	2.87	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	32.40	0	0.13	10.48	124.82	0.65	12.93	10.23
Unplanned unavailable hours	13.92	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	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.8%**	**0.8%**	**1.1%**	**1.1%**	**1.4%**	**1.4%**	**1.3%**	**1.2%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

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

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	0.000230	0.000260	0.000250	0.000240	0.000230	N/A	0.000263	0.000283	0.000192	0.000192	0.000332	0.000202
Technical specification limit	0.3	0.3	0.3	0.3	0.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**

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	0.000304	0.000242	0.000283	0.000229	0.000214	0.000229	0.000295	0.000217	0.000139	0.000232	0.000182	0.000157
Technical specification limit	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum leakage	1.760	1.700	1.700	1.700	1.500	N/A	1.500	1.600	1.500	1.500	1.600	1.500
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.8**	**8.5**	**8.5**	**8.5**	**7.5**	**N/A**	**7.5**	**8.0**	**7.5**	**7.5**	**8.0**	**7.5**

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	1.600	1.500	1.600	1.600	1.500	1.600	1.600	1.500	1.500	2.000	2.100	2.100
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.0**	**7.5**	**8.0**	**8.0**	**7.5**	**8.0**	**8.0**	**7.5**	**7.5**	**10.0**	**10.5**	**10.5**

Licensee Comments: none

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	40.0	78.0	42.0	40.0	24.0	70.0	36.0	32.0
Total opportunities	40.0	81.0	45.0	45.0	24.0	72.0	36.0	32.0
Indicator value	**97.4%**	**97.1%**	**96.4%**	**95.2%**	**95.2%**	**96.1%**	**96.1%**	**96.5%**

Licensee Comments: none

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	77.0	77.0	84.0	86.0	83.0	77.0	82.0	82.0
Total Key personnel	80.0	79.0	84.0	95.0	94.0	82.0	86.0	87.0
Indicator value	**96.3%**	**97.5%**	**100.0%**	**90.5%**	**88.3%**	**93.9%**	**95.3%**	**94.3%**

Licensee Comments: none

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	238	237	236	231	239	241	241	242
Total sirens-tests	243	243	243	243	243	243	243	243
Indicator value	**96.7%**	**96.9%**	**97.3%**	**96.9%**	**97.0%**	**97.4%**	**97.9%**	**99.1%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/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

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	29.17	166.32	4.60	131.58	39.99	23.54	23.14	75.14
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.011**	**0.020**	**0.015**	**0.019**	**0.020**	**0.011**	**0.012**	**0.009**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: October 22, 2002

Monticello

4Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned scrams	0	0	0	1.0	1.0	0	0	0
Critical hours	1330.5	2130.1	2208.0	1205.0	2072.0	2183.0	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**1.0**	**1.8**	**1.8**	**1.8**	**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/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**	**1.0**	**1.0**	**1.0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned power changes	2.0	2.0	1.0	0	0	1.0	0	1.0
Critical hours	1330.5	2130.1	2208.0	1205.0	2072.0	2183.0	2208.0	2209.0
Indicator value	**2.7**	**4.5**	**4.4**	**5.1**	**2.8**	**1.8**	**0.9**	**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	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	11.13	8.98	8.27	25.93	12.02	33.27	7.57	19.25
Unplanned unavailable hours	0	0	0	0	0	2.33	2.15	2.83
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	10.68	4.48	10.48	5.25	6.88	8.24	9.20	9.62
Unplanned unavailable hours	0	0	0	0	0	31.78	52.40	34.45
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**1.1%**	**0.5%**	**0.4%**	**0.5%**	**0.5%**	**0.6%**	**0.7%**	**0.8%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	20.20	24.60	20.98	20.85	42.10	53.00	28.40	38.13
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	1330.50	2130.10	2208.00	1205.00	2072.00	2183.00	2208.00	2209.00
Indicator value	**1.8%**	**1.9%**	**1.2%**	**1.3%**	**1.5%**	**1.4%**	**1.5%**	**1.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	14.23	22.35	24.62	23.07	19.15	7.23	24.25	36.47
Unplanned unavailable hours	0	41.80	0	0	0	31.90	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	1330.50	2130.10	2208.00	1205.00	2072.00	2183.00	2208.00	2209.00
Indicator value	**1.2%**	**1.5%**	**1.6%**	**1.7%**	**1.8%**	**1.9%**	**1.8%**	**1.3%**

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	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	58.00	144.98	0.18	9.33	7.37	0	6.43	20.22
Unplanned unavailable hours	0	0	0	2.87	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
Train 2								
Planned unavailable hours	0	0.13	10.48	124.82	0.65	12.93	10.23	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.8%**	**1.1%**	**1.1%**	**1.4%**	**1.4%**	**1.3%**	**1.2%**	**1.2%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

Licensee Comments:

4Q/02: LER 2002-006

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	0.000240	0.000230	N/A	0.000263	0.000283	0.000192	0.000192	0.000332	0.000202	0.000304	0.000242	0.000283
Technical specification limit	0.3	0.3	2.0	2.0	2.0	2.0	2.0	2.0	2.0	5.0	5.0	5.0
Indicator value	**0.1**	**0.1**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	0.000229	0.000214	0.000229	0.000295	0.000217	0.000139	0.000232	0.000182	0.000157	0.000213	0.000232	0.000209
Technical specification limit	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum leakage	1.700	1.500	N/A	1.500	1.600	1.500	1.500	1.600	1.500	1.600	1.500	1.600
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.5**	**7.5**	**N/A**	**7.5**	**8.0**	**7.5**	**7.5**	**8.0**	**7.5**	**8.0**	**7.5**	**8.0**

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	1.600	1.500	1.600	1.600	1.500	1.500	2.000	2.100	2.100	2.100	2.000	2.100
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.0**	**7.5**	**8.0**	**8.0**	**7.5**	**7.5**	**10.0**	**10.5**	**10.5**	**10.5**	**10.0**	**10.5**

Licensee Comments: none

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	78.0	42.0	40.0	24.0	70.0	36.0	32.0	13.0
Total opportunities	81.0	45.0	45.0	24.0	72.0	36.0	32.0	14.0
Indicator value	**97.1%**	**96.4%**	**95.2%**	**95.2%**	**96.1%**	**96.1%**	**96.5%**	**96.0%**

Licensee Comments: none

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	77.0	84.0	86.0	83.0	77.0	82.0	82.0	85.0
Total Key personnel	79.0	84.0	95.0	94.0	82.0	86.0	87.0	86.0
Indicator value	**97.5%**	**100.0%**	**90.5%**	**88.3%**	**93.9%**	**95.3%**	**94.3%**	**98.8%**

Licensee Comments: none

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	237	236	231	239	241	241	242	243
Total sirens-tests	243	243	243	243	243	243	243	243
Indicator value	**96.9%**	**97.3%**	**96.9%**	**97.0%**	**97.4%**	**97.9%**	**99.1%**	**99.5%**

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	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/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

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	166.32	4.60	131.58	39.99	23.54	23.14	75.14	21.76
CCTV compensatory hours	0	0	0	0	0	0	0	2.2
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.020**	**0.015**	**0.019**	**0.020**	**0.011**	**0.012**	**0.009**	**0.008**

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	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: January 30, 2003

Monticello

1Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned scrams	0	0	1.0	1.0	0	0	0	0
Critical hours	2130.1	2208.0	1205.0	2072.0	2183.0	2208.0	2209.0	2160.0
Indicator value	**0**	**0**	**1.0**	**1.8**	**1.8**	**1.8**	**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/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**	**1.0**	**1.0**	**1.0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	1.0	0	0	1.0	0	1.0	2.0
Critical hours	2130.1	2208.0	1205.0	2072.0	2183.0	2208.0	2209.0	2160.0
Indicator value	**4.5**	**4.4**	**5.1**	**2.8**	**1.8**	**0.9**	**1.6**	**3.2**

Licensee Comments: none

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	8.98	8.27	25.93	12.02	33.27	7.57	19.25	10.82
Unplanned unavailable hours	0	0	0	0	2.33	2.15	2.83	0
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	4.48	10.48	5.25	6.88	8.24	9.20	9.62	32.40
Unplanned unavailable hours	0	0	0	0	31.78	52.40	34.45	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.5%**	**0.4%**	**0.5%**	**0.5%**	**0.6%**	**0.7%**	**0.8%**	**0.8%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**
Train 1								
Planned unavailable hours	24.60	20.98	20.85	42.10	53.00	28.40	38.13	37.58
Unplanned unavailable hours	0	0	0	0	0	0	0	78.23
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2130.10	2208.00	1205.00	2072.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**1.9%**	**1.2%**	**1.3%**	**1.5%**	**1.4%**	**1.5%**	**1.5%**	**1.9%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	22.35	24.62	23.07	19.15	7.23	24.25	36.47	78.02
Unplanned unavailable hours	41.80	0	0	0	31.90	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	2130.10	2208.00	1205.00	2072.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**1.5%**	**1.6%**	**1.7%**	**1.8%**	**1.9%**	**1.8%**	**1.3%**	**1.5%**

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/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	144.98	0.18	9.33	7.37	0	6.43	20.22	7.67
Unplanned unavailable hours	0	0	2.87	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	0.13	10.48	124.82	0.65	12.93	10.23	0	26.92
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	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**1.1%**	**1.1%**	**1.4%**	**1.4%**	**1.3%**	**1.2%**	**1.2%**	**1.2%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/01**	**5/01**	**6/01**	**7/01**	**8/01**	**9/01**	**10/01**	**11/01**	**12/01**	**1/02**	**2/02**	**3/02**
Maximum activity	0.000263	0.000283	0.000192	0.000192	0.000332	0.000202	0.000304	0.000242	0.000283	0.000229	0.000214	0.000229
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	5.0	5.0	5.0	5.0	5.0	5.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**4/02**	**5/02**	**6/02**	**7/02**	**8/02**	**9/02**	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**
Maximum activity	0.000295	0.000217	0.000139	0.000232	0.000182	0.000157	0.000213	0.000232	0.000209	0.000159	0.000180	0.000153
Technical specification limit	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	1.500	1.600	1.500	1.500	1.600	1.500	1.600	1.500	1.600	1.600	1.500	1.600
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**7.5**	**8.0**	**7.5**	**7.5**	**8.0**	**7.5**	**8.0**	**7.5**	**8.0**	**8.0**	**7.5**	**8.0**

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	1.600	1.500	1.500	2.000	2.100	2.100	2.100	2.000	2.100	2.400	2.100	2.100
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.0**	**7.5**	**7.5**	**10.0**	**10.5**	**10.5**	**10.5**	**10.0**	**10.5**	**12.0**	**10.5**	**10.5**

Licensee Comments: none

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	42.0	40.0	24.0	70.0	36.0	32.0	13.0	46.0
Total opportunities	45.0	45.0	24.0	72.0	36.0	32.0	14.0	47.0
Indicator value	**96.4%**	**95.2%**	**95.2%**	**96.1%**	**96.1%**	**96.5%**	**96.0%**	**96.2%**

Licensee Comments: none

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	84.0	86.0	83.0	77.0	82.0	82.0	85.0	85.0
Total Key personnel	84.0	95.0	94.0	82.0	86.0	87.0	86.0	88.0
Indicator value	**100.0%**	**90.5%**	**88.3%**	**93.9%**	**95.3%**	**94.3%**	**98.8%**	**96.6%**

Licensee Comments: none

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	236	231	239	241	241	242	243	1007
Total sirens-tests	243	243	243	243	243	243	243	1073
Indicator value	**97.3%**	**96.9%**	**97.0%**	**97.4%**	**97.9%**	**99.1%**	**99.5%**	**96.2%**

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	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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	4.60	131.58	39.99	23.54	23.14	75.14	21.76	17.90
CCTV compensatory hours	0	0	0	0	0	0	2.2	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.015**	**0.019**	**0.020**	**0.011**	**0.012**	**0.009**	**0.008**	**0.008**

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

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: April 22, 2003

Monticello

2Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned scrams	0	1.0	1.0	0	0	0	0	0
Critical hours	2208.0	1205.0	2072.0	2183.0	2208.0	2209.0	2160.0	1453.7
Indicator value	**0**	**1.0**	**1.8**	**1.8**	**1.8**	**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/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	**1.0**	**1.0**	**1.0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	1.0	0	0	1.0	0	1.0	2.0	0
Critical hours	2208.0	1205.0	2072.0	2183.0	2208.0	2209.0	2160.0	1453.7
Indicator value	**4.4**	**5.1**	**2.8**	**1.8**	**0.9**	**1.6**	**3.2**	**2.6**

Licensee Comments: none

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	8.27	25.93	12.02	33.27	7.57	19.25	10.82	0
Unplanned unavailable hours	0	0	0	2.33	2.15	2.83	0	14.37
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	10.48	5.25	6.88	8.24	9.20	9.62	32.40	5.68
Unplanned unavailable hours	0	0	0	31.78	52.40	34.45	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.4%**	**0.5%**	**0.5%**	**0.6%**	**0.7%**	**0.8%**	**0.8%**	**0.8%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	20.98	20.85	42.10	53.00	28.40	38.13	37.58	10.17
Unplanned unavailable hours	0	0	0	0	0	0	78.23	0
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	1205.00	2072.00	2183.00	2208.00	2209.00	2160.00	1453.70
Indicator value	**1.2%**	**1.3%**	**1.5%**	**1.4%**	**1.5%**	**1.5%**	**1.9%**	**1.7%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	24.62	23.07	19.15	7.23	24.25	36.47	78.02	35.22
Unplanned unavailable hours	0	0	0	31.90	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	2208.00	1205.00	2072.00	2183.00	2208.00	2209.00	2160.00	1453.70
Indicator value	**1.6%**	**1.7%**	**1.8%**	**1.9%**	**1.8%**	**1.3%**	**1.5%**	**1.7%**

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	0.18	9.33	7.37	0	6.43	20.22	7.67	13.95
Unplanned unavailable hours	0	2.87	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	10.48	124.82	0.65	12.93	10.23	0	26.92	17.93
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**1.1%**	**1.4%**	**1.4%**	**1.3%**	**1.2%**	**1.2%**	**1.2%**	**1.1%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

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	0.000192	0.000332	0.000202	0.000304	0.000242	0.000283	0.000229	0.000214	0.000229	0.000295	0.000217	0.000139
Technical specification limit	2.0	2.0	2.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**7/02**	**8/02**	**9/02**	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**
Maximum activity	0.000232	0.000182	0.000157	0.000213	0.000232	0.000209	0.000159	0.000180	0.000153	0.000172	0.000140	0.000154
Technical specification limit	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum leakage	1.500	1.600	1.500	1.600	1.500	1.600	1.600	1.500	1.600	1.600	1.500	1.500
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**7.5**	**8.0**	**7.5**	**8.0**	**7.5**	**8.0**	**8.0**	**7.5**	**8.0**	**8.0**	**7.5**	**7.5**

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	2.000	2.100	2.100	2.100	2.000	2.100	2.400	2.100	2.100	2.100	1.600	1.600
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**10.0**	**10.5**	**10.5**	**10.5**	**10.0**	**10.5**	**12.0**	**10.5**	**10.5**	**10.5**	**8.0**	**8.0**

Licensee Comments: none

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	40.0	24.0	70.0	36.0	32.0	13.0	46.0	14.0
Total opportunities	45.0	24.0	72.0	36.0	32.0	14.0	47.0	15.0
Indicator value	**95.2%**	**95.2%**	**96.1%**	**96.1%**	**96.5%**	**96.0%**	**96.2%**	**96.5%**

Licensee Comments: none

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	86.0	83.0	77.0	82.0	82.0	85.0	85.0	82.0
Total Key personnel	95.0	94.0	82.0	86.0	87.0	86.0	88.0	89.0
Indicator value	**90.5%**	**88.3%**	**93.9%**	**95.3%**	**94.3%**	**98.8%**	**96.6%**	**92.1%**

Licensee Comments: none

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	231	239	241	241	242	243	1007	1183
Total sirens-tests	243	243	243	243	243	243	1073	1183
Indicator value	**96.9%**	**97.0%**	**97.4%**	**97.9%**	**99.1%**	**99.5%**	**96.2%**	**97.6%**

Licensee Comments: none

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	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

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	131.58	39.99	23.54	23.14	75.14	21.76	17.90	197.26
CCTV compensatory hours	0	0	0	0	0	2.2	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.019**	**0.020**	**0.011**	**0.012**	**0.009**	**0.008**	**0.008**	**0.018**

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

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: July 22, 2003

Monticello

3Q/2003 Performance Indicators

Licensee's General Comments: Revised Technical Specification limit for RCS Activity for time period October 2001 to June 2003. Revision did not affect indicator color. Revised number of sucessful Alert Notification System tests for 1st quarter 2003. Revision did not affect indicator color.

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned scrams	1.0	1.0	0	0	0	0	0	0
Critical hours	1205.0	2072.0	2183.0	2208.0	2209.0	2160.0	1453.7	2208.0
Indicator value	**1.0**	**1.8**	**1.8**	**1.8**	**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/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	**1.0**	**1.0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	0	0	1.0	0	1.0	2.0	0	0
Critical hours	1205.0	2072.0	2183.0	2208.0	2209.0	2160.0	1453.7	2208.0
Indicator value	**5.1**	**2.8**	**1.8**	**0.9**	**1.6**	**3.2**	**2.6**	**2.6**

Licensee Comments: none

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	25.93	12.02	33.27	7.57	19.25	10.82	0	4.98
Unplanned unavailable hours	0	0	2.33	2.15	2.83	0	14.37	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	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	5.25	6.88	8.24	9.20	9.62	32.40	5.68	7.95
Unplanned unavailable hours	0	0	31.78	52.40	34.45	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.5%**	**0.5%**	**0.6%**	**0.7%**	**0.8%**	**0.8%**	**0.8%**	**0.8%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**
Train 1								
Planned unavailable hours	20.85	42.10	53.00	28.40	38.13	37.58	10.17	20.95
Unplanned unavailable hours	0	0	0	0	0	78.23	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1205.00	2072.00	2183.00	2208.00	2209.00	2160.00	1453.70	2208.00
Indicator value	**1.3%**	**1.5%**	**1.4%**	**1.5%**	**1.5%**	**1.9%**	**1.7%**	**1.8%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	23.07	19.15	7.23	24.25	36.47	78.02	35.22	22.27
Unplanned unavailable hours	0	0	31.90	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	1205.00	2072.00	2183.00	2208.00	2209.00	2160.00	1453.70	2208.00
Indicator value	**1.7%**	**1.8%**	**1.9%**	**1.8%**	**1.3%**	**1.5%**	**1.7%**	**1.7%**

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	9.33	7.37	0	6.43	20.22	7.67	13.95	6.72
Unplanned unavailable hours	2.87	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	124.82	0.65	12.93	10.23	0	26.92	17.93	9.38
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	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**1.4%**	**1.4%**	**1.3%**	**1.2%**	**1.2%**	**1.2%**	**1.1%**	**1.0%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

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

Licensee Comments: none

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	0.000304	0.000242	0.000283	0.000229	0.000214	0.000229	0.000295	0.000217	0.000139	0.000232	0.000182	0.000157
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**
Maximum activity	0.000213	0.000232	0.000209	0.000159	0.000180	0.000153	0.000172	0.000140	0.000154	0.000161	0.000158	0.000178
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments:

9/03: Revised Technical Specification limit for time period October 2001 to June 2003. Revision did not affect the color of the indicator.

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	1.600	1.500	1.600	1.600	1.500	1.600	1.600	1.500	1.500	2.000	2.100	2.100
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.0**	**7.5**	**8.0**	**8.0**	**7.5**	**8.0**	**8.0**	**7.5**	**7.5**	**10.0**	**10.5**	**10.5**

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	2.100	2.000	2.100	2.400	2.100	2.100	2.100	1.600	1.600	1.700	1.700	1.600
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**10.5**	**10.0**	**10.5**	**12.0**	**10.5**	**10.5**	**10.5**	**8.0**	**8.0**	**8.5**	**8.5**	**8.0**

Licensee Comments: none

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	24.0	70.0	36.0	32.0	13.0	46.0	14.0	20.0
Total opportunities	24.0	72.0	36.0	32.0	14.0	47.0	15.0	20.0
Indicator value	**95.2%**	**96.1%**	**96.1%**	**96.5%**	**96.0%**	**96.2%**	**96.5%**	**98.1%**

Licensee Comments: none

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	83.0	77.0	82.0	82.0	85.0	85.0	82.0	82.0
Total Key personnel	94.0	82.0	86.0	87.0	86.0	88.0	89.0	89.0
Indicator value	**88.3%**	**93.9%**	**95.3%**	**94.3%**	**98.8%**	**96.6%**	**92.1%**	**92.1%**

Licensee Comments: none

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	239	241	241	242	243	1008	1183	1182
Total sirens-tests	243	243	243	243	243	1073	1183	1183
Indicator value	**97.0%**	**97.4%**	**97.9%**	**99.1%**	**99.5%**	**96.2%**	**97.6%**	**98.2%**

Licensee Comments:

3Q/03: Revised number for successful tests for 1st quarter 2003. Revision had no affect on the color of the 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	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

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

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	39.99	23.54	23.14	75.14	21.76	17.90	197.26	32.04
CCTV compensatory hours	0	0	0	0	2.2	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.020**	**0.011**	**0.012**	**0.009**	**0.008**	**0.008**	**0.018**	**0.015**

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

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: October 22, 2003

Monticello

4Q/2003 Performance Indicators

Licensee's General Comments: none

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	1.0	0	0	0	0	0	0	0
Critical hours	2072.0	2183.0	2208.0	2209.0	2160.0	1453.7	2208.0	2209.0
Indicator value	**1.8**	**1.8**	**1.8**	**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/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	**1.0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	1.0	2.0	0	0	0
Critical hours	2072.0	2183.0	2208.0	2209.0	2160.0	1453.7	2208.0	2209.0
Indicator value	**2.8**	**1.8**	**0.9**	**1.6**	**3.2**	**2.6**	**2.6**	**1.7**

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	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	12.02	33.27	7.57	19.25	10.82	0	4.98	69.48
Unplanned unavailable hours	0	2.33	2.15	2.83	0	14.37	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	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	6.88	8.24	9.20	9.62	32.40	5.68	7.95	21.68
Unplanned unavailable hours	0	31.78	52.40	34.45	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.5%**	**0.6%**	**0.7%**	**0.8%**	**0.8%**	**0.8%**	**0.8%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	42.10	53.00	28.40	38.13	37.58	10.17	20.95	41.20
Unplanned unavailable hours	0	0	0	0	78.23	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	2072.00	2183.00	2208.00	2209.00	2160.00	1453.70	2208.00	2209.00
Indicator value	**1.5%**	**1.4%**	**1.5%**	**1.5%**	**1.9%**	**1.7%**	**1.8%**	**1.9%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	19.15	7.23	24.25	36.47	78.02	35.22	22.27	8.60
Unplanned unavailable hours	0	31.90	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	2072.00	2183.00	2208.00	2209.00	2160.00	1453.70	2208.00	2209.00
Indicator value	**1.8%**	**1.9%**	**1.8%**	**1.3%**	**1.5%**	**1.7%**	**1.7%**	**1.7%**

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	7.37	0	6.43	20.22	7.67	13.95	6.72	0.17
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0.65	12.93	10.23	0	26.92	17.93	9.38	50.73
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**1.4%**	**1.3%**	**1.2%**	**1.2%**	**1.2%**	**1.1%**	**1.0%**	**1.0%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Safety System Functional Failures	0	1	1	1	0	0	0	0
Indicator value	**3**	**1**	**2**	**3**	**3**	**2**	**1**	**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	0.000229	0.000214	0.000229	0.000295	0.000217	0.000139	0.000232	0.000182	0.000157	0.000213	0.000232	0.000209
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum activity	0.000159	0.000180	0.000153	0.000172	0.000140	0.000154	0.000161	0.000158	0.000178	0.000168	0.000102	0.000096
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum leakage	1.600	1.500	1.600	1.600	1.500	1.500	2.000	2.100	2.100	2.100	2.000	2.100
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.0**	**7.5**	**8.0**	**8.0**	**7.5**	**7.5**	**10.0**	**10.5**	**10.5**	**10.5**	**10.0**	**10.5**

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	2.400	2.100	2.100	2.100	1.600	1.600	1.700	1.700	1.600	1.700	1.800	1.600
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**12.0**	**10.5**	**10.5**	**10.5**	**8.0**	**8.0**	**8.5**	**8.5**	**8.0**	**8.5**	**9.0**	**8.0**

Licensee Comments: none

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	70.0	36.0	32.0	13.0	46.0	14.0	20.0	35.0
Total opportunities	72.0	36.0	32.0	14.0	47.0	15.0	20.0	45.0
Indicator value	**96.1%**	**96.1%**	**96.5%**	**96.0%**	**96.2%**	**96.5%**	**98.1%**	**94.7%**

Licensee Comments: none

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	77.0	82.0	82.0	85.0	85.0	82.0	82.0	91.0
Total Key personnel	82.0	86.0	87.0	86.0	88.0	89.0	89.0	93.0
Indicator value	**93.9%**	**95.3%**	**94.3%**	**98.8%**	**96.6%**	**92.1%**	**92.1%**	**97.8%**

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	241	241	242	243	1008	1183	1182	1226
Total sirens-tests	243	243	243	243	1073	1183	1183	1274
Indicator value	**97.4%**	**97.9%**	**99.1%**	**99.5%**	**96.2%**	**97.6%**	**98.2%**	**97.6%**

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	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

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

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	23.54	23.14	75.14	21.76	17.90	197.26	32.04	17.35
CCTV compensatory hours	0	0	0	2.2	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.011**	**0.012**	**0.009**	**0.008**	**0.008**	**0.018**	**0.015**	**0.015**

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	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: January 23, 2004

Monticello

1Q/2004 Performance Indicators

Licensee's General Comments: none

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	0	0	0	0
Critical hours	2183.0	2208.0	2209.0	2160.0	1453.7	2208.0	2209.0	2184.0
Indicator value	**1.8**	**1.8**	**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/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned power changes	1.0	0	1.0	2.0	0	0	0	0
Critical hours	2183.0	2208.0	2209.0	2160.0	1453.7	2208.0	2209.0	2184.0
Indicator value	**1.8**	**0.9**	**1.6**	**3.2**	**2.6**	**2.6**	**1.7**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	33.27	7.57	19.25	10.82	0	4.98	69.48	5.17
Unplanned unavailable hours	2.33	2.15	2.83	0	14.37	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	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	8.24	9.20	9.62	32.40	5.68	7.95	21.68	14.74
Unplanned unavailable hours	31.78	52.40	34.45	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value	**0.6%**	**0.7%**	**0.8%**	**0.8%**	**0.8%**	**0.8%**	**0.9%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	53.00	28.40	38.13	37.58	10.17	20.95	41.20	13.17
Unplanned unavailable hours	0	0	0	78.23	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	1453.70	2208.00	2209.00	2184.00
Indicator value	**1.4%**	**1.5%**	**1.5%**	**1.9%**	**1.7%**	**1.8%**	**1.9%**	**1.8%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	7.23	24.25	36.47	78.02	35.22	22.27	8.60	19.18
Unplanned unavailable hours	31.90	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1453.70	2208.00	2209.00	2184.00
Indicator value	**1.9%**	**1.8%**	**1.3%**	**1.5%**	**1.7%**	**1.7%**	**1.7%**	**1.6%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0	6.43	20.22	7.67	13.95	6.72	0.17	21.95
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	12.93	10.23	0	26.92	17.93	9.38	50.73	9.47
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	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value	**1.3%**	**1.2%**	**1.2%**	**1.2%**	**1.1%**	**1.0%**	**1.0%**	**1.0%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Safety System Functional Failures	1	1	1	0	0	0	0	0
Indicator value	**1**	**2**	**3**	**3**	**2**	**1**	**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	0.000295	0.000217	0.000139	0.000232	0.000182	0.000157	0.000213	0.000232	0.000209	0.000159	0.000180	0.000153
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	0.000172	0.000140	0.000154	0.000161	0.000158	0.000178	0.000168	0.000102	0.000096	0.000098	0.000112	0.000104
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum leakage	1.600	1.500	1.500	2.000	2.100	2.100	2.100	2.000	2.100	2.400	2.100	2.100
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.0**	**7.5**	**7.5**	**10.0**	**10.5**	**10.5**	**10.5**	**10.0**	**10.5**	**12.0**	**10.5**	**10.5**

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	2.100	1.600	1.600	1.700	1.700	1.600	1.700	1.800	1.600	1.700	1.700	1.700
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**10.5**	**8.0**	**8.0**	**8.5**	**8.5**	**8.0**	**8.5**	**9.0**	**8.0**	**8.5**	**8.5**	**8.5**

Licensee Comments: none

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	36.0	32.0	13.0	46.0	14.0	19.0	35.0	62.0
Total opportunities	36.0	32.0	14.0	47.0	15.0	19.0	45.0	64.0
Indicator value	**96.1%**	**96.5%**	**96.0%**	**96.2%**	**96.5%**	**98.1%**	**94.6%**	**94.5%**

Licensee Comments:

1Q/04: Revised reported value for 3Q2003 by removing three opportunities and three successful opportunities and adding two opportunities and two successful opportunities for a net decrease of one opportunity and one successful opportunity. This change did not affect the color of the indicator.

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	82.0	82.0	85.0	85.0	82.0	82.0	91.0	85.0
Total Key personnel	86.0	87.0	86.0	88.0	89.0	89.0	93.0	89.0
Indicator value	**95.3%**	**94.3%**	**98.8%**	**96.6%**	**92.1%**	**92.1%**	**97.8%**	**95.5%**

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	241	242	243	1008	1183	1182	1226	1182
Total sirens-tests	243	243	243	1073	1183	1183	1274	1183
Indicator value	**97.9%**	**99.1%**	**99.5%**	**96.2%**	**97.6%**	**98.2%**	**97.6%**	**99.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
High radiation area occurrences	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/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	23.14	75.14	21.76	17.90	197.26	32.04	17.35	40.07
CCTV compensatory hours	0	0	2.2	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.012**	**0.009**	**0.008**	**0.008**	**0.018**	**0.015**	**0.015**	**0.016**

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: April 22, 2004

Monticello

2Q/2004 Performance Indicators

Licensee's General Comments: none

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	0	0	0	0	0
Critical hours	2208.0	2209.0	2160.0	1453.7	2208.0	2209.0	2184.0	2112.4
Indicator value	**1.8**	**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/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	1.0	2.0	0	0	0	0	0
Critical hours	2208.0	2209.0	2160.0	1453.7	2208.0	2209.0	2184.0	2112.4
Indicator value	**0.9**	**1.6**	**3.2**	**2.6**	**2.6**	**1.7**	**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/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	7.57	19.25	10.82	0	4.98	69.48	5.17	21.39
Unplanned unavailable hours	2.15	2.83	0	14.37	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	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	9.20	9.62	32.40	5.68	7.95	21.68	14.74	24.70
Unplanned unavailable hours	52.40	34.45	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
Indicator value	**0.7%**	**0.8%**	**0.8%**	**0.8%**	**0.8%**	**0.9%**	**0.9%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	28.40	38.13	37.58	10.17	20.95	41.20	13.17	13.63
Unplanned unavailable hours	0	0	78.23	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	1453.70	2208.00	2209.00	2184.00	2112.37
Indicator value	**1.5%**	**1.5%**	**1.9%**	**1.7%**	**1.8%**	**1.9%**	**1.8%**	**1.7%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	24.25	36.47	78.02	35.22	22.27	8.60	19.18	21.64
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	1453.70	2208.00	2209.00	2184.00	2112.37
Indicator value	**1.8%**	**1.3%**	**1.5%**	**1.7%**	**1.7%**	**1.7%**	**1.6%**	**1.4%**

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/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	6.43	20.22	7.67	13.95	6.72	0.17	21.95	40.80
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	10.23	0	26.92	17.93	9.38	50.73	9.47	9.50
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
Indicator value	**1.2%**	**1.2%**	**1.2%**	**1.1%**	**1.0%**	**1.0%**	**1.0%**	**0.8%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Safety System Functional Failures	1	1	0	0	0	0	0	0
Indicator value	**2**	**3**	**3**	**2**	**1**	**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	0.000232	0.000182	0.000157	0.000213	0.000232	0.000209	0.000159	0.000180	0.000153	0.000172	0.000140	0.000154
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**
Maximum activity	0.000161	0.000158	0.000178	0.000168	0.000102	0.000096	0.000098	0.000112	0.000104	0.000126	0.000142	0.000143
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/02**	**8/02**	**9/02**	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**
Maximum leakage	2.000	2.100	2.100	2.100	2.000	2.100	2.400	2.100	2.100	2.100	1.600	1.600
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**10.0**	**10.5**	**10.5**	**10.5**	**10.0**	**10.5**	**12.0**	**10.5**	**10.5**	**10.5**	**8.0**	**8.0**
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	1.700	1.700	1.600	1.700	1.800	1.600	1.700	1.700	1.700	1.700	1.600	1.700
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.5**	**8.5**	**8.0**	**8.5**	**9.0**	**8.0**	**8.5**	**8.5**	**8.5**	**8.5**	**8.0**	**8.5**

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	32.0	13.0	46.0	14.0	19.0	35.0	62.0	29.0
Total opportunities	32.0	14.0	47.0	15.0	19.0	45.0	64.0	31.0
Indicator value	**96.5%**	**96.0%**	**96.2%**	**96.5%**	**98.1%**	**94.6%**	**94.5%**	**93.6%**

Licensee Comments: none

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	82.0	85.0	85.0	82.0	82.0	91.0	85.0	88.0
Total Key personnel	87.0	86.0	88.0	89.0	89.0	93.0	89.0	95.0
Indicator value	**94.3%**	**98.8%**	**96.6%**	**92.1%**	**92.1%**	**97.8%**	**95.5%**	**92.6%**

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	242	243	1008	1183	1182	1226	1182	1222
Total sirens-tests	243	243	1073	1183	1183	1274	1183	1223
Indicator value	**99.1%**	**99.5%**	**96.2%**	**97.6%**	**98.2%**	**97.6%**	**99.0%**	**99.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

Physical Protection information not publicly available.

Monticello

3Q/2004 Performance Indicators

Licensee's General Comments: Indicator values for Residual Heat Removal System (MS04) for past reporting period is different than previously reported.

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	0	0	0	0	0	0
Critical hours	2209.0	2160.0	1453.7	2208.0	2209.0	2184.0	2112.4	2208.0
Indicator value	**0.8**	**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/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	1.0	2.0	0	0	0	0	0	0
Critical hours	2209.0	2160.0	1453.7	2208.0	2209.0	2184.0	2112.4	2208.0
Indicator value	**1.6**	**3.2**	**2.6**	**2.6**	**1.7**	**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/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	19.25	10.82	0	4.98	69.48	5.17	21.39	11.18
Unplanned unavailable hours	2.83	0	14.37	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	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	9.62	32.40	5.68	7.95	21.68	14.74	24.70	11.20
Unplanned unavailable hours	34.45	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value	**0.8%**	**0.8%**	**0.8%**	**0.8%**	**0.9%**	**0.9%**	**1.0%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	38.13	37.58	10.17	20.95	41.20	13.17	13.63	8.95
Unplanned unavailable hours	0	78.23	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	1453.70	2208.00	2209.00	2184.00	2112.37	2208.00
Indicator value	**1.5%**	**1.9%**	**1.7%**	**1.8%**	**1.9%**	**1.8%**	**1.7%**	**1.7%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	36.47	78.02	35.22	22.27	8.60	19.18	21.64	27.70
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	1453.70	2208.00	2209.00	2184.00	2112.37	2208.00
Indicator value	**1.3%**	**1.5%**	**1.7%**	**1.7%**	**1.7%**	**1.6%**	**1.4%**	**1.5%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	20.22	7.67	9.78	6.72	0.17	21.95	40.80	0
Unplanned unavailable hours	0	0	0	0	0	0	0	11.15
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	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	26.92	91.40	9.38	50.73	9.47	9.50	7.60
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value	**1.2%**	**1.2%**	**1.3%**	**1.2%**	**1.2%**	**1.1%**	**0.9%**	**0.9%**

Licensee Comments:

3Q/04: Revised reported hours for 2Q2003 due to recently discovered planned unavailability. This change did not affect the color of the indicator.

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

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

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	0.000213	0.000232	0.000209	0.000159	0.000180	0.000153	0.000172	0.000140	0.000154	0.000161	0.000158	0.000178
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**
Maximum activity	0.000168	0.000102	0.000096	0.000098	0.000112	0.000104	0.000126	0.000142	0.000143	0.000134	0.000127	0.000127
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**
Maximum leakage	2.100	2.000	2.100	2.400	2.100	2.100	2.100	1.600	1.600	1.700	1.700	1.600
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**10.5**	**10.0**	**10.5**	**12.0**	**10.5**	**10.5**	**10.5**	**8.0**	**8.0**	**8.5**	**8.5**	**8.0**
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	1.700	1.800	1.600	1.700	1.700	1.700	1.700	1.600	1.700	1.700	1.700	2.000
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.5**	**9.0**	**8.0**	**8.5**	**8.5**	**8.5**	**8.5**	**8.0**	**8.5**	**8.5**	**8.5**	**10.0**

Licensee Comments: none

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	13.0	46.0	14.0	19.0	35.0	62.0	29.0	32.0
Total opportunities	14.0	47.0	15.0	19.0	45.0	64.0	31.0	35.0
Indicator value	**96.0%**	**96.2%**	**96.5%**	**98.1%**	**94.6%**	**94.5%**	**93.6%**	**92.6%**

Licensee Comments: none

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	85.0	85.0	82.0	82.0	91.0	85.0	88.0	116.0
Total Key personnel	86.0	88.0	89.0	89.0	93.0	89.0	95.0	118.0
Indicator value	**98.8%**	**96.6%**	**92.1%**	**92.1%**	**97.8%**	**95.5%**	**92.6%**	**98.3%**

Licensee Comments: none

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	243	1008	1183	1182	1226	1182	1222	1235
Total sirens-tests	243	1073	1183	1183	1274	1183	1223	1235
Indicator value	**99.5%**	**96.2%**	**97.6%**	**98.2%**	**97.6%**	**99.0%**	**99.0%**	**99.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: October 25, 2004

Monticello

4Q/2004 Performance Indicators

Licensee's General Comments: none

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	0	0	0	0	0	0	0
Critical hours	2160.0	1453.7	2208.0	2209.0	2184.0	2112.4	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/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	2.0	0	0	0	0	0	0	0
Critical hours	2160.0	1453.7	2208.0	2209.0	2184.0	2112.4	2208.0	2209.0
Indicator value	**3.2**	**2.6**	**2.6**	**1.7**	**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/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	10.82	0	4.98	69.48	5.17	21.39	11.18	22.34
Unplanned unavailable hours	0	14.37	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	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	32.40	5.68	7.95	21.68	14.74	24.70	11.20	62.40
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	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
Indicator value	**0.8%**	**0.8%**	**0.8%**	**0.9%**	**0.9%**	**1.0%**	**1.0%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	37.58	10.17	20.95	41.20	13.17	13.63	8.95	36.58
Unplanned unavailable hours	78.23	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	16.30
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1453.70	2208.00	2209.00	2184.00	2112.37	2208.00	2209.00
Indicator value	**1.9%**	**1.7%**	**1.8%**	**1.9%**	**1.8%**	**1.7%**	**1.7%**	**1.7%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	78.02	35.22	22.27	8.60	19.18	21.64	27.70	24.50
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1453.70	2208.00	2209.00	2184.00	2112.37	2208.00	2209.00
Indicator value	**1.5%**	**1.7%**	**1.7%**	**1.7%**	**1.6%**	**1.4%**	**1.5%**	**1.4%**

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/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	7.67	9.78	6.72	0.17	21.95	40.80	0	2.52
Unplanned unavailable hours	0	0	0	0	0	0	11.15	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	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	26.92	91.40	9.38	50.73	9.47	9.50	7.60	1.03
Unplanned unavailable hours	0	0	0	0	0	0	0	4.17
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	**1.2%**	**1.3%**	**1.2%**	**1.2%**	**1.1%**	**0.9%**	**0.9%**	**0.7%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	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	1	0
Indicator value	**3**	**2**	**1**	**0**	**0**	**0**	**1**	**1**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**
Maximum activity	0.000159	0.000180	0.000153	0.000172	0.000140	0.000154	0.000161	0.000158	0.000178	0.000168	0.000102	0.000096
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**
Maximum activity	0.000098	0.000112	0.000104	0.000126	0.000142	0.000143	0.000134	0.000127	0.000127	0.000136	0.000125	0.000133
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**
Maximum leakage	2.400	2.100	2.100	2.100	1.600	1.600	1.700	1.700	1.600	1.700	1.800	1.600
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**12.0**	**10.5**	**10.5**	**10.5**	**8.0**	**8.0**	**8.5**	**8.5**	**8.0**	**8.5**	**9.0**	**8.0**
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	1.700	1.700	1.700	1.700	1.600	1.700	1.700	1.700	2.000	1.600	1.600	1.700
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.5**	**8.5**	**8.5**	**8.5**	**8.0**	**8.5**	**8.5**	**8.5**	**10.0**	**8.0**	**8.0**	**8.5**

Licensee Comments: none

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	46.0	14.0	19.0	35.0	62.0	29.0	32.0	27.0
Total opportunities	47.0	15.0	19.0	45.0	64.0	31.0	35.0	29.0
Indicator value	**96.2%**	**96.5%**	**98.1%**	**94.6%**	**94.5%**	**93.6%**	**92.6%**	**92.6%**

Licensee Comments: none

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	85.0	82.0	82.0	91.0	85.0	88.0	116.0	116.0
Total Key personnel	88.0	89.0	89.0	93.0	89.0	95.0	118.0	119.0
Indicator value	**96.6%**	**92.1%**	**92.1%**	**97.8%**	**95.5%**	**92.6%**	**98.3%**	**97.5%**

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	1008	1183	1182	1226	1182	1222	1235	1231
Total sirens-tests	1073	1183	1183	1274	1183	1223	1235	1235
Indicator value	**96.2%**	**97.6%**	**98.2%**	**97.6%**	**99.0%**	**99.0%**	**99.0%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Last Modified: March 9, 2005

Monticello

1Q/2005 Performance Indicators

Licensee's General Comments: none

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	0	0	0	0	0	0	0	0
Critical hours	1453.7	2208.0	2209.0	2184.0	2112.4	2208.0	2209.0	1516.4
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/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1453.7	2208.0	2209.0	2184.0	2112.4	2208.0	2209.0	1516.4
Indicator value	**2.6**	**2.6**	**1.7**	**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/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	0	4.98	69.48	5.17	21.39	11.18	22.34	104.00
Unplanned unavailable hours	14.37	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	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	5.68	7.95	21.68	14.74	24.70	11.20	62.40	4.55
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	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.8%**	**0.8%**	**0.9%**	**0.9%**	**1.0%**	**1.0%**	**1.1%**	**1.3%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	10.17	20.95	41.20	13.17	13.63	8.95	36.58	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	16.30	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1453.70	2208.00	2209.00	2184.00	2112.37	2208.00	2209.00	1516.40
Indicator value	**1.7%**	**1.8%**	**1.9%**	**1.8%**	**1.7%**	**1.7%**	**1.7%**	**1.6%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	35.22	22.27	8.60	19.18	21.64	27.70	24.50	20.01
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	1453.70	2208.00	2209.00	2184.00	2112.37	2208.00	2209.00	1516.40
Indicator value	**1.7%**	**1.7%**	**1.7%**	**1.6%**	**1.4%**	**1.5%**	**1.4%**	**1.4%**

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/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	9.78	6.72	0.17	21.95	40.80	0	2.52	0
Unplanned unavailable hours	0	0	0	0	0	11.15	0	0
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	91.40	9.38	50.73	9.47	9.50	7.60	1.03	0
Unplanned unavailable hours	0	0	0	0	0	0	4.17	0.22
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	**1.3%**	**1.2%**	**1.2%**	**1.1%**	**0.9%**	**0.9%**	**0.7%**	**0.7%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	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	1	0	1
Indicator value	**2**	**1**	**0**	**0**	**0**	**1**	**1**	**2**

Licensee Comments:

1Q/05: LER 2004-03

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	0.000172	0.000140	0.000154	0.000161	0.000158	0.000178	0.000168	0.000102	0.000096	0.000098	0.000112	0.000104
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
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	0.000126	0.000142	0.000143	0.000134	0.000127	0.000127	0.000136	0.000125	0.000133	0.000127	0.000123	0.000119
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**
Maximum leakage	2.100	1.600	1.600	1.700	1.700	1.600	1.700	1.800	1.600	1.700	1.700	1.700
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**10.5**	**8.0**	**8.0**	**8.5**	**8.5**	**8.0**	**8.5**	**9.0**	**8.0**	**8.5**	**8.5**	**8.5**
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	1.700	1.600	1.700	1.700	1.700	2.000	1.600	1.600	1.700	1.700	1.700	1.600
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.5**	**8.0**	**8.5**	**8.5**	**8.5**	**10.0**	**8.0**	**8.0**	**8.5**	**8.5**	**8.5**	**8.0**

Licensee Comments: none

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	19.0	35.0	62.0	29.0	32.0	27.0	43.0
Total opportunities	15.0	19.0	45.0	64.0	31.0	35.0	29.0	44.0
Indicator value	**96.5%**	**98.1%**	**94.6%**	**94.5%**	**93.6%**	**92.6%**	**92.6%**	**92.6%**

Licensee Comments: none

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	82.0	82.0	91.0	85.0	88.0	116.0	116.0	117.0
Total Key personnel	89.0	89.0	93.0	89.0	95.0	118.0	119.0	119.0
Indicator value	**92.1%**	**92.1%**	**97.8%**	**95.5%**	**92.6%**	**98.3%**	**97.5%**	**98.3%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful siren-tests	1183	1182	1226	1182	1222	1235	1231	1230
Total sirens-tests	1183	1183	1274	1183	1223	1235	1235	1235
Indicator value	**97.6%**	**98.2%**	**97.6%**	**99.0%**	**99.0%**	**99.0%**	**99.9%**	**99.8%**

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	**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/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.

Last Modified: June 17, 2005

Monticello

2Q/2005 Performance Indicators

Licensee's General Comments: none

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	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2184.0	2112.4	2208.0	2209.0	1516.4	1951.2
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/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2184.0	2112.4	2208.0	2209.0	1516.4	1951.2
Indicator value	**2.6**	**1.7**	**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	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	4.98	69.48	5.17	21.39	11.18	22.34	104.00	5.11
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	7.95	21.68	14.74	24.70	11.20	62.40	4.55	6.61
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	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.8%**	**0.9%**	**0.9%**	**1.0%**	**1.0%**	**1.1%**	**1.3%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	20.95	41.20	13.17	13.63	8.95	36.58	0	27.44
Unplanned unavailable hours	0	0	0	0	0	0	0	23.25
Fault exposure hours	0	0	0	0	0	16.30	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2112.37	2208.00	2209.00	1516.40	1950.20
Indicator value	**1.8%**	**1.9%**	**1.8%**	**1.7%**	**1.7%**	**1.7%**	**1.6%**	**1.6%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	22.27	8.60	19.18	21.64	27.70	24.50	20.01	9.09
Unplanned unavailable hours	0	0	0	0	0	0	0	43.14
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	2112.37	2208.00	2209.00	1516.40	1950.20
Indicator value	**1.7%**	**1.7%**	**1.6%**	**1.4%**	**1.5%**	**1.4%**	**1.4%**	**1.5%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	6.72	0.17	21.95	40.80	0	2.52	0	3.60
Unplanned unavailable hours	0	0	0	0	11.15	0	0	71.33
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	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	9.38	50.73	9.47	9.50	7.60	1.03	0	1.50
Unplanned unavailable hours	0	0	0	0	0	4.17	0.22	23.33
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	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**1.2%**	**1.2%**	**1.1%**	**0.9%**	**0.9%**	**0.7%**	**0.7%**	**0.9%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Safety System Functional Failures	0	0	0	0	1	0	1	2
Indicator value	**1**	**0**	**0**	**0**	**1**	**1**	**2**	**4**

Licensee Comments:

2Q/05: LER 2005-001 LER 2005-003

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	0.000161	0.000158	0.000178	0.000168	0.000102	0.000096	0.000098	0.000112	0.000104	0.000126	0.000142	0.000143
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**
Maximum activity	0.000134	0.000127	0.000127	0.000136	0.000125	0.000133	0.000127	0.000123	0.000119	0.000112	0.000105	0.000106
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**
Maximum leakage	1.700	1.700	1.600	1.700	1.800	1.600	1.700	1.700	1.700	1.700	1.600	1.700
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.5**	**8.5**	**8.0**	**8.5**	**9.0**	**8.0**	**8.5**	**8.5**	**8.5**	**8.5**	**8.0**	**8.5**
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	1.700	1.700	2.000	1.600	1.600	1.700	1.700	1.700	1.600	2.100	1.700	1.800
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	25.0	25.0	25.0
Indicator value	**8.5**	**8.5**	**10.0**	**8.0**	**8.0**	**8.5**	**8.5**	**8.5**	**8.0**	**8.4**	**6.8**	**7.2**

Licensee Comments: none

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	19.0	35.0	62.0	29.0	32.0	27.0	43.0	25.0
Total opportunities	19.0	45.0	64.0	31.0	35.0	29.0	44.0	26.0
Indicator value	**98.1%**	**94.6%**	**94.5%**	**93.6%**	**92.6%**	**92.6%**	**92.6%**	**92.8%**

Licensee Comments: none

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	82.0	91.0	85.0	88.0	116.0	116.0	117.0	118.0
Total Key personnel	89.0	93.0	89.0	95.0	118.0	119.0	119.0	119.0
Indicator value	**92.1%**	**97.8%**	**95.5%**	**92.6%**	**98.3%**	**97.5%**	**98.3%**	**99.2%**

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	1182	1226	1182	1222	1235	1231	1230	1227
Total sirens-tests	1183	1274	1183	1223	1235	1235	1235	1235
Indicator value	**98.2%**	**97.6%**	**99.0%**	**99.0%**	**99.0%**	**99.9%**	**99.8%**	**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	**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/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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: August 3, 2005

Monticello

3Q/2005 Performance Indicators

Licensee's General Comments: none

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	0	0	0	0	0	0	0
Critical hours	2209.0	2184.0	2112.4	2208.0	2209.0	1516.4	1951.2	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/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	**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/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	2184.0	2112.4	2208.0	2209.0	1516.4	1951.2	2208.0
Indicator value	**1.7**	**0**	**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/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	69.48	5.17	21.39	11.18	22.34	104.00	5.11	6.82
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	21.68	14.74	24.70	11.20	62.40	4.55	6.61	6.22
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.9%**	**0.9%**	**1.0%**	**1.0%**	**1.1%**	**1.3%**	**1.1%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	41.20	13.17	13.63	8.95	36.58	0	27.44	32.05
Unplanned unavailable hours	0	0	0	0	0	0	23.25	0
Fault exposure hours	0	0	0	0	16.30	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2112.37	2208.00	2209.00	1516.40	1950.20	2208.00
Indicator value	**1.9%**	**1.8%**	**1.7%**	**1.7%**	**1.7%**	**1.6%**	**1.6%**	**1.6%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	8.60	19.18	21.64	27.70	24.50	20.01	9.09	17.81
Unplanned unavailable hours	0	0	0	0	0	0	43.14	0
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	2112.37	2208.00	2209.00	1516.40	1950.20	2208.00
Indicator value	**1.7%**	**1.6%**	**1.4%**	**1.5%**	**1.4%**	**1.4%**	**1.5%**	**1.5%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	0.17	21.95	40.80	0	2.52	0	3.60	2.67
Unplanned unavailable hours	0	0	0	11.15	0	0	71.33	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	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	50.73	9.47	9.50	7.60	1.03	0	1.50	24.30
Unplanned unavailable hours	0	0	0	0	4.17	0.22	23.33	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	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**1.2%**	**1.1%**	**0.9%**	**0.9%**	**0.7%**	**0.7%**	**0.9%**	**0.9%**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Safety System Functional Failures	0	0	0	1	0	1	2	0
Indicator value	**0**	**0**	**0**	**1**	**1**	**2**	**4**	**3**

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	0.000168	0.000102	0.000096	0.000098	0.000112	0.000104	0.000126	0.000142	0.000143	0.000134	0.000127	0.000127
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**
Maximum activity	0.000136	0.000125	0.000133	0.000127	0.000123	0.000119	0.000112	0.000105	0.000106	0.000097	0.000100	0.000107
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**
Maximum leakage	1.700	1.800	1.600	1.700	1.700	1.700	1.700	1.600	1.700	1.700	1.700	2.000
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.5**	**9.0**	**8.0**	**8.5**	**8.5**	**8.5**	**8.5**	**8.0**	**8.5**	**8.5**	**8.5**	**10.0**
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	1.600	1.600	1.700	1.700	1.700	1.600	2.100	1.700	1.800	1.800	1.800	1.700
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.0**	**8.0**	**8.5**	**8.5**	**8.5**	**8.0**	**8.4**	**6.8**	**7.2**	**7.2**	**7.2**	**6.8**

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	35.0	62.0	29.0	32.0	27.0	43.0	25.0	53.0
Total opportunities	45.0	64.0	31.0	35.0	29.0	44.0	26.0	56.0
Indicator value	**94.6%**	**94.5%**	**93.6%**	**92.6%**	**92.6%**	**92.6%**	**92.8%**	**92.7%**

Licensee Comments: none

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	91.0	85.0	88.0	116.0	116.0	117.0	118.0	126.0
Total Key personnel	93.0	89.0	95.0	118.0	119.0	119.0	119.0	127.0
Indicator value	**97.8%**	**95.5%**	**92.6%**	**98.3%**	**97.5%**	**98.3%**	**99.2%**	**99.2%**

Licensee Comments: none

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	1226	1182	1222	1235	1231	1230	1227	1225
Total sirens-tests	1274	1183	1223	1235	1235	1235	1235	1235
Indicator value	**97.1%**	**99.0%**	**99.0%**	**99.0%**	**99.9%**	**99.8%**	**99.7%**	**99.5%**

Licensee Comments:

1Q/03: Revised 1Q2003 ANS reported values based on removing the results of weekly cancel tests that were originally included as valid siren test opportunities. This change results in exceedance of the Green/White Threshold for this indicator and a corresponding color change.

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	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: November 3, 2005

Monticello

4Q/2005 Performance Indicators

Licensee's General Comments: none

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	0	0	0	0	0	0	0	0
Critical hours	2184.0	2112.4	2208.0	2209.0	1516.4	1951.2	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/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	**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/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2184.0	2112.4	2208.0	2209.0	1516.4	1951.2	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	5.17	21.39	11.18	22.34	104.00	5.11	6.82	8.78
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	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	14.74	24.70	11.20	62.40	4.55	6.61	6.22	6.90
Unplanned unavailable hours	0	0	0	0	0	0	0	39.35
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.9%**	**1.0%**	**1.0%**	**1.1%**	**1.3%**	**1.1%**	**1.0%**	**1.0%**

Licensee Comments:

4Q/05: #12 EDG train 345.3 hours of T/2 fault exposure hours.

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	13.17	13.63	8.95	36.58	0	27.44	32.05	22.73
Unplanned unavailable hours	0	0	0	0	0	23.25	0	0
Fault exposure hours	0	0	0	16.30	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2112.37	2208.00	2209.00	1516.40	1950.20	2208.00	2209.00
Indicator value	**1.8%**	**1.7%**	**1.7%**	**1.7%**	**1.6%**	**1.6%**	**1.6%**	**1.6%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	19.18	21.64	27.70	24.50	20.01	9.09	17.81	35.05
Unplanned unavailable hours	0	0	0	0	0	43.14	0	0
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	2112.37	2208.00	2209.00	1516.40	1950.20	2208.00	2209.00
Indicator value	**1.6%**	**1.4%**	**1.5%**	**1.4%**	**1.4%**	**1.5%**	**1.5%**	**1.5%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	21.95	40.80	0	2.52	0	3.60	2.67	19.33
Unplanned unavailable hours	0	0	11.15	0	0	71.33	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	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	9.47	9.50	7.60	1.03	0	1.50	24.30	19.95
Unplanned unavailable hours	0	0	0	4.17	0.22	23.33	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	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**1.1%**	**0.9%**	**0.9%**	**0.7%**	**0.7%**	**0.9%**	**0.9%**	**0.9%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Safety System Functional Failures	0	0	1	0	1	2	0	0
Indicator value	**0**	**0**	**1**	**1**	**2**	**4**	**3**	**3**

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	0.000098	0.000112	0.000104	0.000126	0.000142	0.000143	0.000134	0.000127	0.000127	0.000136	0.000125	0.000133
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**
Maximum activity	0.000127	0.000123	0.000119	0.000112	0.000105	0.000106	0.000097	0.000100	0.000107	0.000125	0.000162	0.000133
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum leakage	1.700	1.700	1.700	1.700	1.600	1.700	1.700	1.700	2.000	1.600	1.600	1.700
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.5**	**8.5**	**8.5**	**8.5**	**8.0**	**8.5**	**8.5**	**8.5**	**10.0**	**8.0**	**8.0**	**8.5**
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	1.700	1.700	1.600	2.100	1.700	1.800	1.800	1.800	1.700	2.000	1.700	1.700
Technical specification limit	20.0	20.0	20.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.5**	**8.5**	**8.0**	**8.4**	**6.8**	**7.2**	**7.2**	**7.2**	**6.8**	**8.0**	**6.8**	**6.8**

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	62.0	29.0	32.0	27.0	43.0	25.0	53.0	15.0
Total opportunities	64.0	31.0	35.0	29.0	44.0	26.0	56.0	15.0
Indicator value	**94.5%**	**93.6%**	**92.6%**	**92.6%**	**92.6%**	**92.8%**	**92.7%**	**95.3%**

Licensee Comments: none

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	85.0	88.0	116.0	116.0	117.0	118.0	126.0	127.0
Total Key personnel	89.0	95.0	118.0	119.0	119.0	119.0	127.0	131.0
Indicator value	**95.5%**	**92.6%**	**98.3%**	**97.5%**	**98.3%**	**99.2%**	**99.2%**	**96.9%**

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	1182	1222	1235	1231	1230	1227	1225	1233
Total sirens-tests	1183	1223	1235	1235	1235	1235	1235	1235
Indicator value	**99.0%**	**99.0%**	**99.0%**	**99.9%**	**99.8%**	**99.7%**	**99.5%**	**99.5%**

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**	**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/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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: January 30, 2006

Monticello

1Q/2006 Performance Indicators

Licensee's General Comments: none

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	2112.4	2208.0	2209.0	1516.4	1951.2	2208.0	2209.0	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/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	**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/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2112.4	2208.0	2209.0	1516.4	1951.2	2208.0	2209.0	2160.0
Indicator value	**0**	**0**	**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	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	21.39	11.18	22.34	104.00	5.11	6.82	8.78	7.42
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2159.00
Train 2								
Planned unavailable hours	24.70	11.20	62.40	4.55	6.61	6.22	6.90	24.20
Unplanned unavailable hours	0	0	0	0	0	0	39.35	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2159.00
Indicator value	**1.0%**	**1.0%**	**1.1%**	**1.3%**	**1.1%**	**1.0%**	**1.0%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	13.63	8.95	36.58	0	27.44	32.05	22.73	22.02
Unplanned unavailable hours	0	0	0	0	23.25	0	0	0
Fault exposure hours	0	0	16.30	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2112.37	2208.00	2209.00	1516.40	1950.20	2208.00	2209.00	2159.00
Indicator value	**1.7%**	**1.7%**	**1.7%**	**1.6%**	**1.6%**	**1.6%**	**1.6%**	**1.2%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)

Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	21.64	27.70	24.50	20.01	9.09	17.81	35.05	20.85
Unplanned unavailable hours	0	0	0	0	43.14	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	2112.37	2208.00	2209.00	1516.40	1950.20	2208.00	2209.00	2159.00
Indicator value	**1.4%**	**1.5%**	**1.4%**	**1.4%**	**1.5%**	**1.5%**	**1.5%**	**1.2%**

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	40.80	0	2.52	0	3.60	2.67	19.33	13.82
Unplanned unavailable hours	0	11.15	0	0	71.33	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	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2159.00
Train 2								
Planned unavailable hours	9.50	7.60	1.03	0	1.50	24.30	19.95	20.92
Unplanned unavailable hours	0	0	4.17	0.22	23.33	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	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2159.00
Indicator value	**0.9%**	**0.9%**	**0.7%**	**0.7%**	**0.9%**	**0.9%**	**0.9%**	**0.9%**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Safety System Functional Failures	0	1	0	1	2	0	0	1
Indicator value	**0**	**1**	**1**	**2**	**4**	**3**	**3**	**3**

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	0.000126	0.000142	0.000143	0.000134	0.000127	0.000127	0.000136	0.000125	0.000133	0.000127	0.000123	0.000119
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**
Maximum activity	0.000112	0.000105	0.000106	0.000097	0.000100	0.000107	0.000125	0.000162	0.000133	0.000139	0.000117	0.000108
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum leakage	1.700	1.600	1.700	1.700	1.700	2.000	1.600	1.600	1.700	1.700	1.700	1.600
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
Indicator value	**8.5**	**8.0**	**8.5**	**8.5**	**8.5**	**10.0**	**8.0**	**8.0**	**8.5**	**8.5**	**8.5**	**8.0**
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	2.100	1.700	1.800	1.800	1.800	1.700	2.000	1.700	1.700	1.700	1.700	1.700
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.4**	**6.8**	**7.2**	**7.2**	**7.2**	**6.8**	**8.0**	**6.8**	**6.8**	**6.8**	**6.8**	**6.8**

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	29.0	32.0	27.0	43.0	25.0	53.0	15.0	54.0
Total opportunities	31.0	35.0	29.0	44.0	26.0	56.0	15.0	56.0
Indicator value	**93.6%**	**92.6%**	**92.6%**	**92.6%**	**92.8%**	**92.7%**	**95.3%**	**95.2%**

Licensee Comments: none

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	88.0	116.0	116.0	117.0	118.0	126.0	127.0	129.0
Total Key personnel	95.0	118.0	119.0	119.0	119.0	127.0	131.0	129.0
Indicator value	**92.6%**	**98.3%**	**97.5%**	**98.3%**	**99.2%**	**99.2%**	**96.9%**	**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	1222	1235	1231	1230	1227	1225	1233	1234
Total sirens-tests	1223	1235	1235	1235	1235	1235	1235	1235
Indicator value	**99.0%**	**99.0%**	**99.9%**	**99.8%**	**99.7%**	**99.5%**	**99.5%**	**99.6%**

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	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/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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: May 5, 2006

Monticello

2Q/2006 Performance Indicators

Licensee's General Comments: none

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	1516.4	1951.2	2208.0	2209.0	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/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	**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/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	1516.4	1951.2	2208.0	2209.0	2160.0	2183.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Safety System Functional Failures	1	0	1	2	0	0	1	0
Indicator value	**1**	**1**	**2**	**4**	**3**	**3**	**3**	**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/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								-6.60E-10
URI (ΔCDF)								2.70E-08
PLE								NO
Indicator value								**2.63E-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 (ΔCDF)								-1.30E-08
URI (ΔCDF)								1.10E-07
PLE								NO
Indicator value								**9.70E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								-1.40E-08
URI (ΔCDF)								-2.10E-08
PLE								NO
Indicator value								**-3.50E-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	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								1.10E-10
URI (ΔCDF)								2.70E-09
PLE								NO
Indicator value								**2.81E-09**

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 (ΔCDF)								-2.60E-09
URI (ΔCDF)								-1.20E-11
PLE								NO
Indicator value								**-2.61E-09**

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	0.000134	0.000127	0.000127	0.000136	0.000125	0.000133	0.000127	0.000123	0.000119	0.000112	0.000105	0.000106
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**
Maximum activity	0.000097	0.000100	0.000107	0.000125	0.000162	0.000133	0.000139	0.000117	0.000108	0.000151	0.000101	0.000109
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**
Maximum leakage	1.700	1.700	2.000	1.600	1.600	1.700	1.700	1.700	1.600	2.100	1.700	1.800
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	25.0	25.0	25.0
Indicator value	**8.5**	**8.5**	**10.0**	**8.0**	**8.0**	**8.5**	**8.5**	**8.5**	**8.0**	**8.4**	**6.8**	**7.2**
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	1.800	1.800	1.700	2.000	1.700	1.700	1.700	1.700	1.700	1.700	1.800	1.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.2**	**7.2**	**6.8**	**8.0**	**6.8**	**6.8**	**6.8**	**6.8**	**6.8**	**6.8**	**7.2**	**7.2**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful opportunities	32.0	27.0	43.0	25.0	53.0	15.0	54.0	23.0
Total opportunities	35.0	29.0	44.0	26.0	56.0	15.0	56.0	24.0
Indicator value	**92.6%**	**92.6%**	**92.6%**	**92.8%**	**92.7%**	**95.3%**	**95.2%**	**95.4%**

Licensee Comments: none

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	116.0	116.0	117.0	118.0	126.0	127.0	129.0	124.0
Total Key personnel	118.0	119.0	119.0	119.0	127.0	131.0	129.0	124.0
Indicator value	**98.3%**	**97.5%**	**98.3%**	**99.2%**	**99.2%**	**96.9%**	**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	1235	1231	1230	1227	1225	1233	1234	1232
Total sirens-tests	1235	1235	1235	1235	1235	1235	1235	1235
Indicator value	**99.0%**	**99.9%**	**99.8%**	**99.7%**	**99.5%**	**99.5%**	**99.6%**	**99.7%**

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	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/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.

Last Modified: August 2, 2006

Monticello

3Q/2006 Performance Indicators

Licensee's General Comments: none

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	1516.4	1951.2	2208.0	2209.0	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/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	**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/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	1516.4	1951.2	2208.0	2209.0	2160.0	2183.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Safety System Functional Failures	0	1	2	0	0	1	0	0
Indicator value	**1**	**2**	**4**	**3**	**3**	**3**	**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/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							-6.60E-10	-6.60E-10
URI (ΔCDF)							2.70E-08	2.70E-08
PLE							NO	NO
Indicator value							**2.63E-08**	**2.63E-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 (ΔCDF)							-1.30E-08	-1.30E-08
URI (ΔCDF)							1.10E-07	1.10E-07
PLE							NO	NO
Indicator value							**9.70E-08**	**9.70E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							-1.40E-08	-1.40E-08
URI (ΔCDF)							-2.10E-08	-2.10E-08
PLE							NO	NO
Indicator value							**-3.50E-08**	**-3.50E-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	**4Q/04**	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**
UAI (ΔCDF)							1.10E-10	1.70E-11
URI (ΔCDF)							2.70E-09	2.70E-09
PLE							NO	NO
Indicator value							**2.81E-09**	**2.72E-09**

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)							-2.60E-09	-2.60E-09
URI (ΔCDF)							-1.20E-11	-1.20E-11
PLE							NO	NO
Indicator value							**-2.61E-09**	**-2.61E-09**

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	0.000136	0.000125	0.000133	0.000127	0.000123	0.000119	0.000112	0.000105	0.000106	0.000097	0.000100	0.000107
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**
Maximum activity	0.000125	0.000162	0.000133	0.000139	0.000117	0.000108	0.000151	0.000101	0.000109	0.000093	0.000097	0.000088
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**
Maximum leakage	1.600	1.600	1.700	1.700	1.700	1.600	2.100	1.700	1.800	1.800	1.800	1.700
Technical specification limit	20.0	20.0	20.0	20.0	20.0	20.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.0**	**8.0**	**8.5**	**8.5**	**8.5**	**8.0**	**8.4**	**6.8**	**7.2**	**7.2**	**7.2**	**6.8**
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	2.000	1.700	1.700	1.700	1.700	1.700	1.700	1.800	1.800	1.700	1.800	1.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.0**	**6.8**	**6.8**	**6.8**	**6.8**	**6.8**	**6.8**	**7.2**	**7.2**	**6.8**	**7.2**	**7.2**

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	27.0	43.0	25.0	53.0	15.0	54.0	23.0	56.0
Total opportunities	29.0	44.0	26.0	56.0	15.0	56.0	24.0	56.0
Indicator value	**92.6%**	**92.6%**	**92.8%**	**92.7%**	**95.3%**	**95.2%**	**95.4%**	**96.7%**

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	116.0	117.0	118.0	126.0	127.0	129.0	124.0	129.0
Total Key personnel	119.0	119.0	119.0	127.0	131.0	129.0	124.0	129.0
Indicator value	**97.5%**	**98.3%**	**99.2%**	**99.2%**	**96.9%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful siren-tests	1231	1230	1227	1225	1233	1234	1232	1376
Total sirens-tests	1235	1235	1235	1235	1235	1235	1235	1378
Indicator value	**99.9%**	**99.8%**	**99.7%**	**99.5%**	**99.5%**	**99.6%**	**99.7%**	**99.8%**

Licensee Comments:

3Q/06: The weekly test results for 11 sirens were added to the ANS PI at the start of the 3rd quarter 2006.

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	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: November 6, 2006

Monticello

4Q/2006 Performance Indicators

Licensee's General Comments: none

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	0
Critical hours	1516.4	1951.2	2208.0	2209.0	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/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	**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/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1516.4	1951.2	2208.0	2209.0	2160.0	2183.0	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Safety System Functional Failures	1	2	0	0	1	0	0	0
Indicator value	**2**	**4**	**3**	**3**	**3**	**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/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**
UAI (ΔCDF)						-6.60E-10	-6.60E-10	-6.60E-10
URI (ΔCDF)						2.70E-08	2.70E-08	2.70E-08
PLE						NO	NO	NO
Indicator value						**2.63E-08**	**2.63E-08**	**2.63E-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 (ΔCDF)						-1.30E-08	-1.30E-08	-1.30E-08
URI (ΔCDF)						1.10E-07	1.10E-07	1.10E-07
PLE						NO	NO	NO
Indicator value						**9.70E-08**	**9.70E-08**	**9.70E-08**

Licensee Comments:

4Q/06: This report contains a revision to previously submitted data for 2Q2006 and 3Q2006 for MS07. The revision does not cause a color change to the indicator.

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)						-1.40E-08	-1.40E-08	-1.40E-08
URI (ΔCDF)						-2.10E-08	-2.10E-08	-2.10E-08
PLE						NO	NO	NO
Indicator value						**-3.50E-08**	**-3.50E-08**	**-3.50E-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/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**
UAI (ΔCDF)						1.10E-10	1.10E-10	1.20E-10
URI (ΔCDF)						2.70E-09	2.70E-09	2.70E-09
PLE						NO	NO	NO
Indicator value						**2.81E-09**	**2.81E-09**	**2.82E-09**

Licensee Comments:

4Q/06: This report contains a revision to previously submitted data for 2Q2006 and 3Q2006 for MS09. The revision does not cause a color change to the indicator.

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)						-2.60E-09	-2.60E-09	-2.50E-09
URI (ΔCDF)						-1.20E-11	-1.20E-11	-1.20E-11
PLE						NO	NO	NO
Indicator value						**-2.61E-09**	**-2.61E-09**	**-2.51E-09**

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	0.000127	0.000123	0.000119	0.000112	0.000105	0.000106	0.000097	0.000100	0.000107	0.000125	0.000162	0.000133
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**
Maximum activity	0.000139	0.000117	0.000108	0.000151	0.000101	0.000109	0.000093	0.000097	0.000088	0.000081	0.000087	0.000087
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**
Maximum leakage	1.700	1.700	1.600	2.100	1.700	1.800	1.800	1.800	1.700	2.000	1.700	1.700
Technical specification limit	20.0	20.0	20.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.5**	**8.5**	**8.0**	**8.4**	**6.8**	**7.2**	**7.2**	**7.2**	**6.8**	**8.0**	**6.8**	**6.8**
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	1.700	1.700	1.700	1.700	1.800	1.800	1.700	1.800	1.800	1.800	1.800	2.600
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.8**	**6.8**	**6.8**	**6.8**	**7.2**	**7.2**	**6.8**	**7.2**	**7.2**	**7.2**	**7.2**	**10.4**

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	43.0	25.0	53.0	15.0	54.0	23.0	56.0	42.0
Total opportunities	44.0	26.0	56.0	15.0	56.0	24.0	56.0	43.0
Indicator value	**92.6%**	**92.8%**	**92.7%**	**95.3%**	**95.2%**	**95.4%**	**96.7%**	**97.2%**

Licensee Comments: none

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	117.0	118.0	126.0	127.0	129.0	124.0	129.0	122.0
Total Key personnel	119.0	119.0	127.0	131.0	129.0	124.0	129.0	122.0
Indicator value	**98.3%**	**99.2%**	**99.2%**	**96.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful siren-tests	1230	1227	1225	1233	1234	1232	1376	1336
Total sirens-tests	1235	1235	1235	1235	1235	1235	1378	1378
Indicator value	**99.8%**	**99.7%**	**99.5%**	**99.5%**	**99.6%**	**99.7%**	**99.8%**	**99.1%**

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	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/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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: February 7, 2007

Monticello

1Q/2007 Performance Indicators

Licensee's General Comments: none

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	0	1.0
Critical hours	1951.2	2208.0	2209.0	2160.0	2183.0	2208.0	2209.0	1422.8
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**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	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/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1951.2	2208.0	2209.0	2160.0	2183.0	2208.0	2209.0	1422.8
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Safety System Functional Failures	2	0	0	1	0	0	0	0
Indicator value	**4**	**3**	**3**	**3**	**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	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					-6.60E-10	-6.60E-10	-6.60E-10	-6.30E-10
URI (ΔCDF)					2.70E-08	2.70E-08	2.70E-08	2.70E-08
PLE					NO	NO	NO	NO
Indicator value					**2.63E-08**	**2.63E-08**	**2.63E-08**	**2.64E-08**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					-1.30E-08	-1.30E-08	-1.30E-08	-1.20E-08
URI (ΔCDF)					1.10E-07	1.10E-07	1.10E-07	1.10E-07
PLE					NO	NO	NO	NO
Indicator value					**9.70E-08**	**9.70E-08**	**9.70E-08**	**9.80E-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/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08
URI (ΔCDF)					-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08
PLE					NO	NO	NO	NO
Indicator value					**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-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/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					1.10E-10	1.10E-10	1.20E-10	2.80E-11
URI (ΔCDF)					2.70E-09	2.70E-09	2.70E-09	2.70E-09
PLE					NO	NO	NO	NO
Indicator value					**2.81E-09**	**2.81E-09**	**2.82E-09**	**2.73E-09**

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 (ΔCDF)					-2.60E-09	-2.60E-09	-2.50E-09	-2.50E-09
URI (ΔCDF)					-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11
PLE					NO	NO	NO	NO
Indicator value					**-2.61E-09**	**-2.61E-09**	**-2.51E-09**	**-2.51E-09**

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	0.000112	0.000105	0.000106	0.000097	0.000100	0.000107	0.000125	0.000162	0.000133	0.000139	0.000117	0.000108
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**
Maximum activity	0.000151	0.000101	0.000109	0.000093	0.000097	0.000088	0.000081	0.000087	0.000087	0.000216	0.000121	0.000081
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**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	2.100	1.700	1.800	1.800	1.800	1.700	2.000	1.700	1.700	1.700	1.700	1.700
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.4**	**6.8**	**7.2**	**7.2**	**7.2**	**6.8**	**8.0**	**6.8**	**6.8**	**6.8**	**6.8**	**6.8**
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	1.700	1.800	1.800	1.700	1.800	1.800	1.800	1.800	2.600	1.800	2.000	1.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.8**	**7.2**	**7.2**	**6.8**	**7.2**	**7.2**	**7.2**	**7.2**	**10.4**	**7.2**	**8.0**	**7.2**

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	25.0	53.0	15.0	54.0	23.0	56.0	42.0	25.0
Total opportunities	26.0	56.0	15.0	56.0	24.0	56.0	43.0	26.0
Indicator value	**92.8%**	**92.7%**	**95.3%**	**95.2%**	**95.4%**	**96.7%**	**97.2%**	**97.0%**

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	118.0	126.0	127.0	129.0	124.0	129.0	122.0	120.0
Total Key personnel	119.0	127.0	131.0	129.0	124.0	129.0	122.0	120.0
Indicator value	**99.2%**	**99.2%**	**96.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful siren-tests	1227	1225	1233	1234	1232	1376	1336	1375
Total sirens-tests	1235	1235	1235	1235	1235	1378	1378	1378
Indicator value	**99.7%**	**99.5%**	**99.5%**	**99.6%**	**99.7%**	**99.8%**	**99.1%**	**99.1%**

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	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/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.

Last Modified: June 1, 2007

Monticello

2Q/2007 Performance Indicators

Licensee's General Comments: ANS PI data for 3rd and 4th quarter of 2006 and 1st quarter of 2007 has been revised to capture additional test failures not previously identified. Revision of data does not change color of indicator.

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	0	1.0	0
Critical hours	2208.0	2209.0	2160.0	2183.0	2208.0	2209.0	1422.8	1573.9
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**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	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/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2160.0	2183.0	2208.0	2209.0	1422.8	1573.9
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Safety System Functional Failures	0	0	1	0	0	0	0	0
Indicator value	**3**	**3**	**3**	**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/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				-6.60E-10	-6.60E-10	-6.60E-10	-6.30E-10	-6.10E-10
URI (ΔCDF)				2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08
PLE				NO	NO	NO	NO	NO
Indicator value				**2.63E-08**	**2.63E-08**	**2.63E-08**	**2.64E-08**	**2.64E-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/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				-1.30E-08	-1.30E-08	-1.30E-08	-1.20E-08	-1.20E-08
URI (ΔCDF)				1.10E-07	1.10E-07	1.10E-07	1.10E-07	1.10E-07
PLE				NO	NO	NO	NO	NO
Indicator value				**9.70E-08**	**9.70E-08**	**9.70E-08**	**9.80E-08**	**9.80E-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	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08
URI (ΔCDF)				-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08
PLE				NO	NO	NO	NO	NO
Indicator value				**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-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	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				1.10E-10	1.10E-10	1.20E-10	2.80E-11	3.80E-11
URI (ΔCDF)				2.70E-09	2.70E-09	2.70E-09	2.70E-09	2.70E-09
PLE				NO	NO	NO	NO	NO
Indicator value				**2.81E-09**	**2.81E-09**	**2.82E-09**	**2.73E-09**	**2.74E-09**

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 (ΔCDF)				-2.60E-09	-2.60E-09	-2.50E-09	-2.50E-09	-2.30E-09
URI (ΔCDF)				-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11
PLE				NO	NO	NO	NO	NO
Indicator value				**-2.61E-09**	**-2.61E-09**	**-2.51E-09**	**-2.51E-09**	**-2.31E-09**

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	0.000097	0.000100	0.000107	0.000125	0.000162	0.000133	0.000139	0.000117	0.000108	0.000151	0.000101	0.000109
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**
Maximum activity	0.000093	0.000097	0.000088	0.000081	0.000087	0.000087	0.000216	0.000121	0.000081	N/A	0.004920	0.004460
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0**	**N/A**	**2.5**	**2.2**

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	1.800	1.800	1.700	2.000	1.700	1.700	1.700	1.700	1.700	1.700	1.800	1.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.2**	**7.2**	**6.8**	**8.0**	**6.8**	**6.8**	**6.8**	**6.8**	**6.8**	**6.8**	**7.2**	**7.2**
Reactor Coolant System Leakage	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**
Maximum leakage	1.700	1.800	1.800	1.800	1.800	2.600	1.800	2.000	1.800	1.600	1.900	1.900
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.8**	**7.2**	**7.2**	**7.2**	**7.2**	**10.4**	**7.2**	**8.0**	**7.2**	**6.4**	**7.6**	**7.6**

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	53.0	15.0	54.0	23.0	56.0	42.0	25.0	31.0
Total opportunities	56.0	15.0	56.0	24.0	56.0	43.0	26.0	31.0
Indicator value	**92.7%**	**95.3%**	**95.2%**	**95.4%**	**96.7%**	**97.2%**	**97.0%**	**97.4%**

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	126.0	127.0	129.0	124.0	129.0	122.0	120.0	111.0
Total Key personnel	127.0	131.0	129.0	124.0	129.0	122.0	120.0	111.0
Indicator value	**99.2%**	**96.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful siren-tests	1225	1233	1234	1232	1363	1324	1362	1367
Total sirens-tests	1235	1235	1235	1235	1378	1378	1378	1378
Indicator value	**99.5%**	**99.5%**	**99.6%**	**99.7%**	**99.6%**	**98.6%**	**98.4%**	**98.3%**

Licensee Comments:

3Q/06: The weekly test results for 11 sirens were added to the ANS PI at the start of the 3rd quarter 2006.

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**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/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.

Last Modified: August 6, 2007

Monticello

3Q/2007 Performance Indicators

Licensee's General Comments: none

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	0	1.0	0	0
Critical hours	2209.0	2160.0	2183.0	2208.0	2209.0	1422.8	1573.9	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	2160.0	2183.0	2208.0	2209.0	1422.8	1573.9	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Scrams with complications					0	1.0	0	0
Indicator value								**1.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Safety System Functional Failures	0	1	0	0	0	0	1	2
Indicator value	**3**	**3**	**1**	**1**	**1**	**0**	**1**	**3**

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			-6.60E-10	-6.60E-10	-6.60E-10	-6.30E-10	-6.10E-10	-6.10E-10
URI (ΔCDF)			2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**2.63E-08**	**2.63E-08**	**2.63E-08**	**2.64E-08**	**2.64E-08**	**2.64E-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/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			-1.30E-08	-1.30E-08	-1.30E-08	-1.20E-08	-1.20E-08	-1.20E-08
URI (ΔCDF)			1.10E-07	1.10E-07	1.10E-07	1.10E-07	1.10E-07	1.10E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**9.70E-08**	**9.70E-08**	**9.70E-08**	**9.80E-08**	**9.80E-08**	**9.80E-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	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08
URI (ΔCDF)			-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-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	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			1.10E-10	1.10E-10	1.20E-10	2.80E-11	3.80E-11	5.30E-11
URI (ΔCDF)			2.70E-09	2.70E-09	2.70E-09	2.70E-09	2.70E-09	2.70E-09
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**2.81E-09**	**2.81E-09**	**2.82E-09**	**2.73E-09**	**2.74E-09**	**2.75E-09**

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)			-2.60E-09	-2.60E-09	-2.50E-09	-2.50E-09	-2.30E-09	-2.40E-09
URI (ΔCDF)			-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-2.61E-09**	**-2.61E-09**	**-2.51E-09**	**-2.51E-09**	**-2.31E-09**	**-2.41E-09**

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	0.000125	0.000162	0.000133	0.000139	0.000117	0.000108	0.000151	0.000101	0.000109	0.000093	0.000097	0.000088
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**
Maximum activity	0.000081	0.000087	0.000087	0.000216	0.000121	0.000081	N/A	0.004920	0.004460	0.000053	0.000049	0.000026
Technical specification limit	2.0	2.0	2.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0.1**	**0.1**	**0**	**N/A**	**2.5**	**2.2**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**
Maximum leakage	2.000	1.700	1.700	1.700	1.700	1.700	1.700	1.800	1.800	1.700	1.800	1.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.0**	**6.8**	**6.8**	**6.8**	**6.8**	**6.8**	**6.8**	**7.2**	**7.2**	**6.8**	**7.2**	**7.2**
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	1.800	1.800	2.600	1.800	2.000	1.800	1.600	1.900	1.900	1.900	2.000	1.900
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.2**	**7.2**	**10.4**	**7.2**	**8.0**	**7.2**	**6.4**	**7.6**	**7.6**	**7.6**	**8.0**	**7.6**

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	15.0	54.0	23.0	56.0	42.0	25.0	31.0	37.0
Total opportunities	15.0	56.0	24.0	56.0	43.0	26.0	31.0	37.0
Indicator value	**95.3%**	**95.2%**	**95.4%**	**96.7%**	**97.2%**	**97.0%**	**97.4%**	**98.3%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Participating Key personnel	127.0	129.0	124.0	129.0	122.0	120.0	111.0	112.0
Total Key personnel	131.0	129.0	124.0	129.0	122.0	120.0	111.0	112.0
Indicator value	**96.9%**	**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/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful siren-tests	1233	1234	1232	1363	1324	1362	1367	1377
Total sirens-tests	1235	1235	1235	1378	1378	1378	1378	1378
Indicator value	**99.5%**	**99.6%**	**99.7%**	**99.6%**	**98.6%**	**98.4%**	**98.3%**	**98.5%**

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	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/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.

Last Modified: December 7, 2007

Monticello

4Q/2007 Performance Indicators

Licensee's General Comments: none

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2160.0	2183.0	2208.0	2209.0	1422.8	1573.9	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**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	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2160.0	2183.0	2208.0	2209.0	1422.8	1573.9	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Scrams with complications				0	1.0	0	0	0
Indicator value							**1.0**	**1.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Safety System Functional Failures	1	0	0	0	0	1	2	0
Indicator value	**3**	**1**	**1**	**1**	**0**	**1**	**3**	**3**

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		-6.60E-10	-6.60E-10	-6.60E-10	-6.30E-10	-6.10E-10	-6.10E-10	-6.10E-10
URI (ΔCDF)		2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**2.63E-08**	**2.63E-08**	**2.63E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-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/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		-1.30E-08	-1.30E-08	-1.30E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.70E-08
URI (ΔCDF)		1.10E-07	1.10E-07	1.10E-07	1.10E-07	1.10E-07	1.10E-07	5.80E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**9.70E-08**	**9.70E-08**	**9.70E-08**	**9.80E-08**	**9.80E-08**	**9.80E-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	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08
URI (ΔCDF)		-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-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/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		1.10E-10	1.10E-10	1.20E-10	2.80E-11	3.80E-11	5.30E-11	5.30E-11
URI (ΔCDF)		2.70E-09	2.70E-09	2.70E-09	2.70E-09	2.70E-09	2.70E-09	2.70E-09
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**2.81E-09**	**2.81E-09**	**2.82E-09**	**2.73E-09**	**2.74E-09**	**2.75E-09**	**2.75E-09**

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 (ΔCDF)		-2.60E-09	-2.60E-09	-2.50E-09	-2.50E-09	-2.30E-09	-2.40E-09	-2.30E-09
URI (ΔCDF)		-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-2.61E-09**	**-2.61E-09**	**-2.51E-09**	**-2.51E-09**	**-2.31E-09**	**-2.41E-09**	**-2.31E-09**

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	0.000139	0.000117	0.000108	0.000151	0.000101	0.000109	0.000093	0.000097	0.000088	0.000081	0.000087	0.000087
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**
Maximum activity	0.000216	0.000121	0.000081	N/A	0.004920	0.004460	0.000053	0.000049	0.000026	0.000169	0.000281	0.000148
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0**	**N/A**	**2.5**	**2.2**	**0**	**0**	**0**	**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	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**
Maximum leakage	1.700	1.700	1.700	1.700	1.800	1.800	1.700	1.800	1.800	1.800	1.800	2.600
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.8**	**6.8**	**6.8**	**6.8**	**7.2**	**7.2**	**6.8**	**7.2**	**7.2**	**7.2**	**7.2**	**10.4**
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	1.800	2.000	1.800	1.600	1.900	1.900	1.900	2.000	1.900	1.900	1.900	2.000
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.2**	**8.0**	**7.2**	**6.4**	**7.6**	**7.6**	**7.6**	**8.0**	**7.6**	**7.6**	**7.6**	**8.0**

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	54.0	23.0	56.0	42.0	25.0	31.0	37.0	39.0
Total opportunities	56.0	24.0	56.0	43.0	26.0	31.0	37.0	42.0
Indicator value	**95.2%**	**95.4%**	**96.7%**	**97.2%**	**97.0%**	**97.4%**	**98.3%**	**97.5%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Participating Key personnel	129.0	124.0	129.0	122.0	120.0	111.0	112.0	114.0
Total Key personnel	129.0	124.0	129.0	122.0	120.0	111.0	112.0	114.0
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/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful siren-tests	1234	1232	1363	1324	1362	1367	1377	1377
Total sirens-tests	1235	1235	1378	1378	1378	1378	1378	1378
Indicator value	**99.6%**	**99.7%**	**99.6%**	**98.6%**	**98.4%**	**98.3%**	**98.5%**	**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	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/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.

Last Modified: February 4, 2008

Monticello

1Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2183.0	2208.0	2209.0	1422.8	1573.9	2208.0	2209.0	2183.0
Indicator value	**0**	**0**	**0**	**0.9**	**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	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2183.0	2208.0	2209.0	1422.8	1573.9	2208.0	2209.0	2183.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Scrams with complications			0	1.0	0	0	0	0
Indicator value						**1.0**	**1.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Safety System Functional Failures	0	0	0	0	1	2	0	0
Indicator value	**1**	**1**	**1**	**0**	**1**	**3**	**3**	**3**

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 (ΔCDF)	-6.60E-10	-6.60E-10	-6.60E-10	-6.30E-10	-6.10E-10	-6.10E-10	-6.10E-10	-6.40E-10
URI (ΔCDF)	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.63E-08**	**2.63E-08**	**2.63E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-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 (ΔCDF)	-1.30E-08	-1.30E-08	-1.30E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.70E-08	-1.70E-08
URI (ΔCDF)	1.10E-07	1.10E-07	1.10E-07	1.10E-07	1.10E-07	1.10E-07	5.80E-08	5.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.70E-08**	**9.70E-08**	**9.70E-08**	**9.80E-08**	**9.80E-08**	**9.80E-08**	**4.10E-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	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.10E-08
URI (ΔCDF)	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.20E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**
UAI (ΔCDF)	1.10E-10	1.10E-10	1.20E-10	2.80E-11	3.80E-11	5.30E-11	5.30E-11	4.10E-11
URI (ΔCDF)	2.70E-09	2.70E-09	2.70E-09	2.70E-09	2.70E-09	2.70E-09	2.70E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.81E-09**	**2.81E-09**	**2.82E-09**	**2.73E-09**	**2.74E-09**	**2.75E-09**	**2.75E-09**	**-3.56E-09**

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 (ΔCDF)	-2.60E-09	-2.60E-09	-2.50E-09	-2.50E-09	-2.30E-09	-2.40E-09	-2.30E-09	-2.10E-09
URI (ΔCDF)	-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11	2.60E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.61E-09**	**-2.61E-09**	**-2.51E-09**	**-2.51E-09**	**-2.31E-09**	**-2.41E-09**	**-2.31E-09**	**-2.10E-09**

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	0.000151	0.000101	0.000109	0.000093	0.000097	0.000088	0.000081	0.000087	0.000087	0.000216	0.000121	0.000081
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0**

Reactor Coolant System Activity	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**
Maximum activity	N/A	0.004920	0.004460	0.000053	0.000049	0.000026	0.000169	0.000281	0.000148	0.000126	0.000027	0.000202
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**N/A**	**2.5**	**2.2**	**0**	**0**	**0**	**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	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	1.700	1.800	1.800	1.700	1.800	1.800	1.800	1.800	2.600	1.800	2.000	1.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.8**	**7.2**	**7.2**	**6.8**	**7.2**	**7.2**	**7.2**	**7.2**	**10.4**	**7.2**	**8.0**	**7.2**
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	1.600	1.900	1.900	1.900	2.000	1.900	1.900	1.900	2.000	1.900	2.000	2.000
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.4**	**7.6**	**7.6**	**7.6**	**8.0**	**7.6**	**7.6**	**7.6**	**8.0**	**7.6**	**8.0**	**8.0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful opportunities	23.0	56.0	42.0	25.0	31.0	37.0	39.0	59.0
Total opportunities	24.0	56.0	43.0	26.0	31.0	37.0	42.0	59.0
Indicator value	**95.4%**	**96.7%**	**97.2%**	**97.0%**	**97.4%**	**98.3%**	**97.5%**	**98.1%**

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	124.0	129.0	122.0	120.0	111.0	112.0	114.0	115.0
Total Key personnel	124.0	129.0	122.0	120.0	111.0	112.0	114.0	117.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.3%**

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	1232	1363	1324	1362	1367	1377	1377	1377
Total sirens-tests	1235	1378	1378	1378	1378	1378	1378	1378
Indicator value	**99.7%**	**99.6%**	**98.6%**	**98.4%**	**98.3%**	**98.5%**	**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	**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/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.

Last Modified: April 30, 2008

Monticello

2Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2208.0	2209.0	1422.8	1573.9	2208.0	2209.0	2183.0	2184.0
Indicator value	**0**	**0**	**0.9**	**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	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	1422.8	1573.9	2208.0	2209.0	2183.0	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Scrams with complications		0	1.0	0	0	0	0	0
Indicator value					**1.0**	**1.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Safety System Functional Failures	0	0	0	1	2	0	0	2
Indicator value	**1**	**1**	**0**	**1**	**3**	**3**	**3**	**4**

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 (ΔCDF)	-6.60E-10	-6.60E-10	-6.30E-10	-6.10E-10	-6.10E-10	-6.10E-10	-6.40E-10	-6.40E-10
URI (ΔCDF)	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.63E-08**	**2.63E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-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 (ΔCDF)	-1.30E-08	-1.30E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.70E-08	-1.70E-08	-1.70E-08
URI (ΔCDF)	1.10E-07	1.10E-07	1.10E-07	1.10E-07	1.10E-07	5.90E-08	5.90E-08	-2.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.70E-08**	**9.70E-08**	**9.80E-08**	**9.80E-08**	**9.80E-08**	**4.20E-08**	**4.20E-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 (ΔCDF)	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.10E-08	-1.10E-08
URI (ΔCDF)	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.20E-08**	**-3.20E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	1.10E-10	1.20E-10	2.80E-11	3.80E-11	5.30E-11	5.30E-11	4.10E-11	-3.70E-10
URI (ΔCDF)	2.70E-09	2.70E-09	2.70E-09	2.70E-09	2.70E-09	2.70E-09	-3.60E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.81E-09**	**2.82E-09**	**2.73E-09**	**2.74E-09**	**2.75E-09**	**2.75E-09**	**-3.56E-09**	**-3.97E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**
UAI (ΔCDF)	-2.60E-09	-2.50E-09	-2.50E-09	-2.30E-09	-2.40E-09	-2.30E-09	-2.10E-09	-2.00E-09
URI (ΔCDF)	-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11	2.60E-12	2.60E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.61E-09**	**-2.51E-09**	**-2.51E-09**	**-2.31E-09**	**-2.41E-09**	**-2.31E-09**	**-2.10E-09**	**-2.00E-09**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum activity	0.000093	0.000097	0.000088	0.000081	0.000087	0.000087	0.000216	0.000121	0.000081	N/A	0.004920	0.004460
Technical specification limit	2.0	2.0	2.0	2.0	2.0	2.0	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0**	**N/A**	**2.5**	**2.2**

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	0.000053	0.000049	0.000026	0.000169	0.000281	0.000148	0.000126	0.000027	0.000202	0.000331	0.000353	0.000384
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**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	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum leakage	1.700	1.800	1.800	1.800	1.800	2.600	1.800	2.000	1.800	1.600	1.900	1.900
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.8**	**7.2**	**7.2**	**7.2**	**7.2**	**10.4**	**7.2**	**8.0**	**7.2**	**6.4**	**7.6**	**7.6**

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	1.900	2.000	1.900	1.900	1.900	2.000	1.900	2.000	2.000	2.000	2.200	1.900
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**8.0**	**7.6**	**7.6**	**7.6**	**8.0**	**7.6**	**8.0**	**8.0**	**8.0**	**8.8**	**7.6**

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	42.0	25.0	31.0	37.0	39.0	59.0	29.0
Total opportunities	56.0	43.0	26.0	31.0	37.0	42.0	59.0	29.0
Indicator value	**96.7%**	**97.2%**	**97.0%**	**97.4%**	**98.3%**	**97.5%**	**98.1%**	**98.5%**

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	129.0	122.0	120.0	111.0	112.0	114.0	115.0	113.0
Total Key personnel	129.0	122.0	120.0	111.0	112.0	114.0	117.0	113.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.3%**	**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	1363	1324	1362	1367	1377	1377	1377	1376
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	**99.6%**	**98.6%**	**98.4%**	**98.3%**	**98.5%**	**99.5%**	**99.7%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**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/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.

Monticello

3Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned scrams	0	1.0	0	0	0	0	0	1.0
Critical hours	2209.0	1422.8	1573.9	2208.0	2209.0	2183.0	2184.0	1843.3
Indicator value	**0**	**0.9**	**0.9**	**0.9**	**0.9**	**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	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned power changes	0	0	0	0	1.0	0	0	1.0
Critical hours	2209.0	1422.8	1573.9	2208.0	2209.0	2183.0	2184.0	1843.3
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.8**	**1.7**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Scrams with complications	0	1.0	0	0	0	0	0	1.0
Indicator value				**1.0**	**1.0**	**0.0**	**0.0**	**1.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Safety System Functional Failures	0	0	1	2	0	0	2	0
Indicator value	**1**	**0**	**1**	**3**	**3**	**3**	**4**	**2**

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	-6.60E-10	-6.30E-10	-6.10E-10	-6.10E-10	-6.10E-10	-6.40E-10	-6.40E-10	-6.30E-10
URI (ΔCDF)	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.63E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-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)	-1.30E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.70E-08	-1.70E-08	-1.70E-08	-1.20E-08
URI (ΔCDF)	1.10E-07	1.10E-07	1.10E-07	1.10E-07	5.90E-08	5.90E-08	-2.70E-08	-2.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.70E-08**	**9.80E-08**	**9.80E-08**	**9.80E-08**	**4.20E-08**	**4.20E-08**	**-4.40E-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/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**
UAI (ΔCDF)	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.10E-08	-1.10E-08	-1.10E-08
URI (ΔCDF)	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.20E-08**	**-3.20E-08**	**-3.30E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**
UAI (ΔCDF)	1.20E-10	2.80E-11	3.80E-11	5.30E-11	5.30E-11	4.10E-11	-3.70E-10	-3.70E-10
URI (ΔCDF)	2.70E-09	2.70E-09	2.70E-09	2.70E-09	2.70E-09	-3.60E-09	-3.60E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.82E-09**	**2.73E-09**	**2.74E-09**	**2.75E-09**	**2.75E-09**	**-3.56E-09**	**-3.97E-09**	**-3.97E-09**

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 (ΔCDF)	-2.50E-09	-2.50E-09	-2.30E-09	-2.40E-09	-2.30E-09	-2.10E-09	-2.00E-09	-1.60E-09
URI (ΔCDF)	-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11	2.60E-12	2.60E-12	2.60E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.51E-09**	**-2.51E-09**	**-2.31E-09**	**-2.41E-09**	**-2.31E-09**	**-2.10E-09**	**-2.00E-09**	**-1.60E-09**

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	0.000081	0.000087	0.000087	0.000216	0.000121	0.000081	N/A	0.004920	0.004460	0.000053	0.000049	0.000026
Technical specification limit	2.0	2.0	2.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0.1**	**0.1**	**0**	**N/A**	**2.5**	**2.2**	**0**	**0**	**0**

Reactor Coolant System Activity	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum activity	0.000169	0.000281	0.000148	0.000126	0.000027	0.000202	0.000331	0.000353	0.000384	0.000407	0.000434	0.000331
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0.1**	**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	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum leakage	1.800	1.800	2.600	1.800	2.000	1.800	1.600	1.900	1.900	1.900	2.000	1.900
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.2**	**7.2**	**10.4**	**7.2**	**8.0**	**7.2**	**6.4**	**7.6**	**7.6**	**7.6**	**8.0**	**7.6**
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	1.900	1.900	2.000	1.900	2.000	2.000	2.000	2.200	1.900	1.900	2.000	1.900
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**7.6**	**8.0**	**7.6**	**8.0**	**8.0**	**8.0**	**8.8**	**7.6**	**7.6**	**8.0**	**7.6**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful opportunities	42.0	25.0	31.0	37.0	39.0	59.0	29.0	39.0
Total opportunities	43.0	26.0	31.0	37.0	42.0	59.0	29.0	39.0
Indicator value	**97.2%**	**97.0%**	**97.4%**	**98.3%**	**97.5%**	**98.1%**	**98.5%**	**98.4%**

Licensee Comments: none

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	122.0	120.0	111.0	112.0	114.0	115.0	113.0	112.0
Total Key personnel	122.0	120.0	111.0	112.0	114.0	117.0	113.0	112.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.3%**	**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	1324	1362	1367	1377	1377	1377	1376	1377
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	**98.6%**	**98.4%**	**98.3%**	**98.5%**	**99.5%**	**99.7%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**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.

Last Modified: November 26, 2008

Monticello

4Q/2008 Performance Indicators

Licensee's General Comments: none

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	1.0	0	0	0	0	0	1.0	0
Critical hours	1422.8	1573.9	2208.0	2209.0	2183.0	2184.0	1843.3	2209.0
Indicator value	**0.9**	**0.9**	**0.9**	**0.9**	**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	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned power changes	0	0	0	1.0	0	0	1.0	0
Critical hours	1422.8	1573.9	2208.0	2209.0	2183.0	2184.0	1843.3	2209.0
Indicator value	**0**	**0**	**0**	**0.9**	**0.9**	**0.8**	**1.7**	**0.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Scrams with complications	1.0	0	0	0	0	0	1.0	0
Indicator value			**1.0**	**1.0**	**0.0**	**0.0**	**1.0**	**1.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Safety System Functional Failures	0	1	2	0	0	2	0	3
Indicator value	**0**	**1**	**3**	**3**	**3**	**4**	**2**	**5**

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)	-6.30E-10	-6.10E-10	-6.10E-10	-6.10E-10	-6.40E-10	-6.40E-10	-6.30E-10	-1.30E-09
URI (ΔCDF)	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**-1.33E-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/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	-1.20E-08	-1.20E-08	-1.20E-08	-1.70E-08	-1.70E-08	-1.70E-08	-1.20E-08	-1.20E-08
URI (ΔCDF)	1.10E-07	1.10E-07	1.10E-07	5.90E-08	5.90E-08	-2.70E-08	-2.80E-08	-2.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.80E-08**	**9.80E-08**	**9.80E-08**	**4.20E-08**	**4.20E-08**	**-4.40E-08**	**-4.00E-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	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**
UAI (ΔCDF)	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08
URI (ΔCDF)	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.20E-08	-2.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.20E-08**	**-3.20E-08**	**-3.30E-08**	**-3.30E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	2.80E-11	3.80E-11	5.30E-11	5.30E-11	4.10E-11	-3.70E-10	-3.70E-10	-3.70E-10
URI (ΔCDF)	2.70E-09	2.70E-09	2.70E-09	2.70E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.73E-09**	**2.74E-09**	**2.75E-09**	**2.75E-09**	**-3.56E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**
UAI (ΔCDF)	-2.50E-09	-2.30E-09	-2.40E-09	-2.30E-09	-2.10E-09	-2.00E-09	-1.60E-09	-1.30E-09
URI (ΔCDF)	-1.20E-11	-1.20E-11	-1.20E-11	-1.20E-11	2.60E-12	2.60E-12	2.60E-12	2.60E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.51E-09**	**-2.31E-09**	**-2.41E-09**	**-2.31E-09**	**-2.10E-09**	**-2.00E-09**	**-1.60E-09**	**-1.30E-09**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum activity	0.000216	0.000121	0.000081	N/A	0.004920	0.004460	0.000053	0.000049	0.000026	0.000169	0.000281	0.000148
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0**	**N/A**	**2.5**	**2.2**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum activity	0.000126	0.000027	0.000202	0.000331	0.000353	0.000384	0.000407	0.000434	0.000331	0.000502	0.000500	0.000657
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**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	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**
Maximum leakage	1.800	2.000	1.800	1.600	1.900	1.900	1.900	2.000	1.900	1.900	1.900	2.000
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.2**	**8.0**	**7.2**	**6.4**	**7.6**	**7.6**	**7.6**	**8.0**	**7.6**	**7.6**	**7.6**	**8.0**
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	1.900	2.000	2.000	2.000	2.200	1.900	1.900	2.000	1.900	1.900	1.900	1.900
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**8.0**	**8.0**	**8.0**	**8.8**	**7.6**	**7.6**	**8.0**	**7.6**	**7.6**	**7.6**	**7.6**

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	25.0	31.0	37.0	39.0	59.0	29.0	39.0	25.0
Total opportunities	26.0	31.0	37.0	42.0	59.0	29.0	39.0	26.0
Indicator value	**97.0%**	**97.4%**	**98.3%**	**97.5%**	**98.1%**	**98.5%**	**98.4%**	**98.3%**

Licensee Comments: none

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	120.0	111.0	112.0	114.0	115.0	113.0	112.0	123.0
Total Key personnel	120.0	111.0	112.0	114.0	117.0	113.0	112.0	123.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.3%**	**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	1362	1367	1377	1377	1377	1376	1377	1483
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1484
Indicator value	**98.4%**	**98.3%**	**98.5%**	**99.5%**	**99.7%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/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.

Last Modified: February 4, 2009

Monticello

1Q/2009 Performance Indicators

Licensee's General Comments: none

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	1.0	0	0
Critical hours	1573.9	2208.0	2209.0	2183.0	2184.0	1843.3	2209.0	1731.1
Indicator value	**0.9**	**0.9**	**0.9**	**0**	**0**	**0.8**	**0.8**	**0.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned power changes	0	0	1.0	0	0	1.0	0	1.0
Critical hours	1573.9	2208.0	2209.0	2183.0	2184.0	1843.3	2209.0	1731.1
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.8**	**1.7**	**0.8**	**1.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Scrams with complications	0	0	0	0	0	1.0	0	0
Indicator value		**1.0**	**1.0**	**0.0**	**0.0**	**1.0**	**1.0**	**1.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Safety System Functional Failures	1	2	0	0	2	0	3	0
Indicator value	**1**	**3**	**3**	**3**	**4**	**2**	**5**	**5**

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)	-6.10E-10	-6.10E-10	-6.10E-10	-6.40E-10	-6.40E-10	-6.30E-10	-1.30E-09	-1.20E-09
URI (ΔCDF)	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	-1.20E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**-1.33E-08**	**-1.32E-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 (ΔCDF)	-1.20E-08	-1.20E-08	-1.70E-08	-1.70E-08	-1.70E-08	-1.20E-08	-1.20E-08	-1.20E-08
URI (ΔCDF)	1.10E-07	1.10E-07	5.90E-08	5.90E-08	-2.70E-08	-2.80E-08	-2.80E-08	-2.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.80E-08**	**9.80E-08**	**4.20E-08**	**4.20E-08**	**-4.40E-08**	**-4.00E-08**	**-4.00E-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	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	-1.40E-08	-1.40E-08	-1.40E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-9.20E-09
URI (ΔCDF)	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.20E-08	-2.20E-08	-2.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.50E-08**	**-3.50E-08**	**-3.50E-08**	**-3.20E-08**	**-3.20E-08**	**-3.30E-08**	**-3.30E-08**	**-3.12E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	3.80E-11	5.30E-11	5.30E-11	4.10E-11	-3.70E-10	-3.70E-10	-3.70E-10	-3.70E-10
URI (ΔCDF)	2.70E-09	2.70E-09	2.70E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.74E-09**	**2.75E-09**	**2.75E-09**	**-3.56E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**

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 (ΔCDF)	-2.30E-09	-2.40E-09	-2.30E-09	-2.10E-09	-2.00E-09	-1.60E-09	-1.30E-09	-1.30E-09
URI (ΔCDF)	-1.20E-11	-1.20E-11	-1.20E-11	2.60E-12	2.60E-12	2.60E-12	2.60E-12	2.60E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.31E-09**	**-2.41E-09**	**-2.31E-09**	**-2.10E-09**	**-2.00E-09**	**-1.60E-09**	**-1.30E-09**	**-1.30E-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	N/A	0.004920	0.004460	0.000053	0.000049	0.000026	0.000169	0.000281	0.000148	0.000126	0.000027	0.000202
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**N/A**	**2.5**	**2.2**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0.1**

Reactor Coolant System Activity	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**
Maximum activity	0.000331	0.000353	0.000384	0.000407	0.000434	0.000331	0.000502	0.000500	0.000657	0.000746	0.000754	0.000683
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**

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	1.600	1.900	1.900	1.900	2.000	1.900	1.900	1.900	2.000	1.900	2.000	2.000
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.4**	**7.6**	**7.6**	**7.6**	**8.0**	**7.6**	**7.6**	**7.6**	**8.0**	**7.6**	**8.0**	**8.0**
Reactor Coolant System Leakage	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**
Maximum leakage	2.000	2.200	1.900	1.900	2.000	1.900	1.900	1.900	1.900	1.900	1.800	1.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.0**	**8.8**	**7.6**	**7.6**	**8.0**	**7.6**	**7.6**	**7.6**	**7.6**	**7.6**	**7.2**	**7.2**

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	31.0	37.0	39.0	59.0	29.0	39.0	25.0	19.0
Total opportunities	31.0	37.0	42.0	59.0	29.0	39.0	26.0	19.0
Indicator value	**97.4%**	**98.3%**	**97.5%**	**98.1%**	**98.5%**	**98.4%**	**98.3%**	**98.6%**

Licensee Comments: none

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	111.0	112.0	114.0	115.0	113.0	112.0	123.0	118.0
Total Key personnel	111.0	112.0	114.0	117.0	113.0	112.0	123.0	118.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**98.3%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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	1367	1377	1377	1377	1376	1377	1483	1268
Total sirens-tests	1378	1378	1378	1378	1378	1378	1484	1272
Indicator value	**98.3%**	**98.5%**	**99.5%**	**99.7%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/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.

Last Modified: May 1, 2009

Monticello

2Q/2009 Performance Indicators

Licensee's General Comments: none

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	1.0	0	0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	1843.3	2209.0	1731.1	1318.3
Indicator value	**0.9**	**0.9**	**0**	**0**	**0.8**	**0.8**	**0.9**	**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/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned power changes	0	1.0	0	0	1.0	0	1.0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	1843.3	2209.0	1731.1	1318.3
Indicator value	**0**	**0.9**	**0.9**	**0.8**	**1.7**	**0.8**	**1.8**	**2.0**

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	1.0	0	0	0
Indicator value	**1.0**	**1.0**	**0.0**	**0.0**	**1.0**	**1.0**	**1.0**	**1.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Safety System Functional Failures	2	0	0	2	0	3	0	0
Indicator value	**3**	**3**	**3**	**4**	**2**	**5**	**5**	**3**

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)	-6.10E-10	-6.10E-10	-6.40E-10	-6.40E-10	-6.30E-10	-1.30E-09	-1.20E-09	-1.10E-09
URI (ΔCDF)	2.70E-08	2.70E-08	2.70E-08	2.70E-08	2.70E-08	-1.20E-08	-1.20E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**-1.33E-08**	**-1.32E-08**	**-1.31E-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 (ΔCDF)	-1.20E-08	-1.70E-08	-1.70E-08	-1.70E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.10E-08
URI (ΔCDF)	1.10E-07	5.90E-08	5.90E-08	-2.70E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.80E-08**	**4.20E-08**	**4.20E-08**	**-4.40E-08**	**-4.00E-08**	**-4.00E-08**	**-4.00E-08**	**-3.90E-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)	-1.40E-08	-1.40E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-9.20E-09	-9.00E-09
URI (ΔCDF)	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.50E-08**	**-3.50E-08**	**-3.20E-08**	**-3.20E-08**	**-3.30E-08**	**-3.30E-08**	**-3.12E-08**	**-3.10E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	5.30E-11	5.30E-11	4.10E-11	-3.70E-10	-3.70E-10	-3.70E-10	-3.70E-10	-3.70E-10
URI (ΔCDF)	2.70E-09	2.70E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.75E-09**	**2.75E-09**	**-3.56E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**
UAI (ΔCDF)	-2.40E-09	-2.30E-09	-2.10E-09	-2.00E-09	-1.60E-09	-1.30E-09	-1.30E-09	-1.20E-09
URI (ΔCDF)	-1.20E-11	-1.20E-11	2.60E-12	2.60E-12	2.60E-12	2.60E-12	2.60E-12	2.60E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.41E-09**	**-2.31E-09**	**-2.10E-09**	**-2.00E-09**	**-1.60E-09**	**-1.30E-09**	**-1.30E-09**	**-1.20E-09**

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	0.000053	0.000049	0.000026	0.000169	0.000281	0.000148	0.000126	0.000027	0.000202	0.000331	0.000353	0.000384
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0.1**	**0.2**	**0.2**	**0.2**

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	0.000407	0.000434	0.000331	0.000502	0.000500	0.000657	0.000746	0.000754	0.000683	N/A	0.000635	0.000577
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**	**N/A**	**0.3**	**0.3**

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	1.900	2.000	1.900	1.900	1.900	2.000	1.900	2.000	2.000	2.000	2.200	1.900
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**8.0**	**7.6**	**7.6**	**7.6**	**8.0**	**7.6**	**8.0**	**8.0**	**8.0**	**8.8**	**7.6**
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	1.900	2.000	1.900	1.900	1.900	1.900	1.900	1.800	1.800	N/A	1.800	2.400
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**8.0**	**7.6**	**7.6**	**7.6**	**7.6**	**7.6**	**7.2**	**7.2**	**N/A**	**7.2**	**9.6**

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	37.0	39.0	59.0	29.0	39.0	25.0	19.0	18.0
Total opportunities	37.0	42.0	59.0	29.0	39.0	26.0	19.0	18.0
Indicator value	**98.3%**	**97.5%**	**98.1%**	**98.5%**	**98.4%**	**98.3%**	**98.6%**	**98.5%**

Licensee Comments: none

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	112.0	114.0	115.0	113.0	112.0	123.0	118.0	118.0
Total Key personnel	112.0	114.0	117.0	113.0	112.0	123.0	118.0	118.0
Indicator value	**100.0%**	**100.0%**	**98.3%**	**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	1377	1377	1377	1376	1377	1483	1268	1377
Total sirens-tests	1378	1378	1378	1378	1378	1484	1272	1378
Indicator value	**98.5%**	**99.5%**	**99.7%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/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.

Last Modified: July 22, 2009

Monticello

3Q/2009 Performance Indicators

Licensee's General Comments: none

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	1.0	0	0	0	0
Critical hours	2209.0	2183.0	2184.0	1843.3	2209.0	1731.1	1318.3	2208.0
Indicator value	**0.9**	**0**	**0**	**0.8**	**0.8**	**0.9**	**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/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned power changes	1.0	0	0	1.0	0	1.0	0	0
Critical hours	2209.0	2183.0	2184.0	1843.3	2209.0	1731.1	1318.3	2208.0
Indicator value	**0.9**	**0.9**	**0.8**	**1.7**	**0.8**	**1.8**	**2.0**	**0.9**

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	1.0	0	0	0	0
Indicator value	**1.0**	**0.0**	**0.0**	**1.0**	**1.0**	**1.0**	**1.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Safety System Functional Failures	0	0	2	0	3	0	0	1
Indicator value	**3**	**3**	**4**	**2**	**5**	**5**	**3**	**4**

Licensee Comments:

3Q/09: LER 2009-03 7/13/2009

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 (ΔCDF)	-6.10E-10	-6.40E-10	-6.40E-10	-6.30E-10	-1.30E-09	-1.20E-09	-1.10E-09	-1.10E-09
URI (ΔCDF)	2.70E-08	2.70E-08	2.70E-08	2.70E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.64E-08**	**2.64E-08**	**2.64E-08**	**2.64E-08**	**-1.33E-08**	**-1.32E-08**	**-1.31E-08**	**-1.31E-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 (ΔCDF)	-1.70E-08	-1.70E-08	-1.70E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.10E-08	-1.10E-08
URI (ΔCDF)	5.90E-08	5.90E-08	-2.70E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.20E-08**	**4.20E-08**	**-4.40E-08**	**-4.00E-08**	**-4.00E-08**	**-4.00E-08**	**-3.90E-08**	**-3.90E-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	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**
UAI (ΔCDF)	-1.40E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-9.20E-09	-9.00E-09	3.30E-09
URI (ΔCDF)	-2.10E-08	-2.10E-08	-2.10E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.50E-08**	**-3.20E-08**	**-3.20E-08**	**-3.30E-08**	**-3.30E-08**	**-3.12E-08**	**-3.10E-08**	**-1.87E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	5.30E-11	4.10E-11	-3.70E-10	-3.70E-10	-3.70E-10	-3.70E-10	-3.70E-10	-3.70E-10
URI (ΔCDF)	2.70E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.75E-09**	**-3.56E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**

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 (ΔCDF)	-2.30E-09	-2.10E-09	-2.00E-09	-1.60E-09	-1.30E-09	-1.30E-09	-1.20E-09	-1.20E-09
URI (ΔCDF)	-1.20E-11	2.60E-12	2.60E-12	2.60E-12	2.60E-12	2.60E-12	2.60E-12	2.60E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.31E-09**	**-2.10E-09**	**-2.00E-09**	**-1.60E-09**	**-1.30E-09**	**-1.30E-09**	**-1.20E-09**	**-1.20E-09**

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	0.000169	0.000281	0.000148	0.000126	0.000027	0.000202	0.000331	0.000353	0.000384	0.000407	0.000434	0.000331
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

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	0.000502	0.000500	0.000657	0.000746	0.000754	0.000683	N/A	0.000635	0.000577	0.000539	0.000469	0.000529
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**	**N/A**	**0.3**	**0.3**	**0.3**	**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	1.900	1.900	2.000	1.900	2.000	2.000	2.000	2.200	1.900	1.900	2.000	1.900
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**7.6**	**8.0**	**7.6**	**8.0**	**8.0**	**8.0**	**8.8**	**7.6**	**7.6**	**8.0**	**7.6**
Reactor Coolant System Leakage	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**
Maximum leakage	1.900	1.900	1.900	1.900	1.800	1.800	N/A	1.800	2.400	1.800	2.000	2.000
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**7.6**	**7.6**	**7.6**	**7.2**	**7.2**	**N/A**	**7.2**	**9.6**	**7.2**	**8.0**	**8.0**

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	39.0	59.0	29.0	39.0	25.0	19.0	18.0	39.0
Total opportunities	42.0	59.0	29.0	39.0	26.0	19.0	18.0	47.0
Indicator value	**97.5%**	**98.1%**	**98.5%**	**98.4%**	**98.3%**	**98.6%**	**98.5%**	**95.7%**

Licensee Comments: none

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	114.0	115.0	113.0	112.0	123.0	118.0	118.0	143.0
Total Key personnel	114.0	117.0	113.0	112.0	123.0	118.0	118.0	143.0
Indicator value	**100.0%**	**98.3%**	**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/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful siren-tests	1377	1377	1376	1377	1483	1268	1377	1482
Total sirens-tests	1378	1378	1378	1378	1484	1272	1378	1484
Indicator value	**99.5%**	**99.7%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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**	**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/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.

Last Modified: November 30, 2009

Monticello

4Q/2009 Performance Indicators

Licensee's General Comments: none

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	1.0	0	0	0	0	0
Critical hours	2183.0	2184.0	1843.3	2209.0	1731.1	1318.3	2208.0	2209.0
Indicator value	**0**	**0**	**0.8**	**0.8**	**0.9**	**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/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	0	0	1.0	0	1.0	0	0	0
Critical hours	2183.0	2184.0	1843.3	2209.0	1731.1	1318.3	2208.0	2209.0
Indicator value	**0.9**	**0.8**	**1.7**	**0.8**	**1.8**	**2.0**	**0.9**	**0.9**

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	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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Safety System Functional Failures	0	2	0	3	0	0	1	0
Indicator value	**3**	**4**	**2**	**5**	**5**	**3**	**4**	**1**

Licensee Comments:

4Q/09: LER 2008-02, Rev 1, dated 11/30/2009 and LER 2008-03, Rev 1, dated 11/30/2009. Revisions were requred due to the SSFF box on the NRC LER form not checked in original submission. LERs were properly counted as SSFF in 2008.

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 (ΔCDF)	-6.40E-10	-6.40E-10	-6.30E-10	-1.30E-09	-1.20E-09	-1.10E-09	-1.10E-09	-1.60E-09
URI (ΔCDF)	2.70E-08	2.70E-08	2.70E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.64E-08**	**2.64E-08**	**2.64E-08**	**-1.33E-08**	**-1.32E-08**	**-1.31E-08**	**-1.31E-08**	**-1.36E-08**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	-1.70E-08	-1.70E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.10E-08	-1.10E-08	-1.10E-08
URI (ΔCDF)	5.90E-08	-2.70E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.20E-08**	**-4.40E-08**	**-4.00E-08**	**-4.00E-08**	**-4.00E-08**	**-3.90E-08**	**-3.90E-08**	**-3.90E-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	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	-1.10E-08	-1.10E-08	-1.10E-08	-1.10E-08	-9.20E-09	-9.00E-09	3.30E-09	3.30E-09
URI (ΔCDF)	-2.10E-08	-2.10E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.20E-08**	**-3.20E-08**	**-3.30E-08**	**-3.30E-08**	**-3.12E-08**	**-3.10E-08**	**-1.87E-08**	**-1.87E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	4.10E-11	-3.70E-10	-3.70E-10	-3.70E-10	-3.70E-10	-3.70E-10	-3.70E-10	3.10E-10
URI (ΔCDF)	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.56E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.29E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	-2.10E-09	-2.00E-09	-1.60E-09	-1.30E-09	-1.30E-09	-1.20E-09	-1.20E-09	-1.10E-09
URI (ΔCDF)	2.60E-12	2.60E-12	2.40E-12	2.40E-12	2.40E-12	2.40E-12	2.40E-12	2.40E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-09**	**-2.00E-09**	**-1.60E-09**	**-1.30E-09**	**-1.30E-09**	**-1.20E-09**	**-1.20E-09**	**-1.10E-09**

Licensee Comments:

4Q/09: Reliability data edit for demand and run hours Sept 2008. No change to indicator color.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**
Maximum activity	0.000126	0.000156	0.000202	0.000331	0.000353	0.000384	0.000407	0.000434	0.000331	0.000502	0.000500	0.000657
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**

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	0.000746	0.000754	0.000683	N/A	0.000635	0.000577	0.000539	0.000469	0.000529	0.000599	0.000519	0.000758
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.4**	**0.4**	**0.3**	**N/A**	**0.3**	**0.3**	**0.3**	**0.2**	**0.3**	**0.3**	**0.3**	**0.4**

Licensee Comments:

12/09: I-131 was used instead of I-131 DEI for Feb 2008. No impact on indicator color.

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	1.900	2.000	2.000	2.000	2.200	1.900	1.900	2.000	1.900	1.900	1.900	1.900
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**8.0**	**8.0**	**8.0**	**8.8**	**7.6**	**7.6**	**8.0**	**7.6**	**7.6**	**7.6**	**7.6**
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	1.900	1.800	1.800	N/A	1.800	2.400	1.800	2.000	2.000	1.900	1.900	2.000
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**7.2**	**7.2**	**N/A**	**7.2**	**9.6**	**7.2**	**8.0**	**8.0**	**7.6**	**7.6**	**8.0**

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	59.0	29.0	39.0	25.0	19.0	18.0	39.0	29.0
Total opportunities	59.0	29.0	39.0	26.0	19.0	18.0	47.0	30.0
Indicator value	**98.1%**	**98.5%**	**98.4%**	**98.3%**	**98.6%**	**98.5%**	**95.7%**	**96.3%**

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	115.0	113.0	112.0	123.0	118.0	118.0	143.0	144.0
Total Key personnel	117.0	113.0	112.0	123.0	118.0	118.0	143.0	144.0
Indicator value	**98.3%**	**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/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful siren-tests	1377	1376	1377	1483	1268	1377	1482	1373
Total sirens-tests	1378	1378	1378	1484	1272	1378	1484	1378
Indicator value	**99.7%**	**99.9%**	**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/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**	**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/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.

Last Modified: January 22, 2010

Monticello

1Q/2010 Performance Indicators

Licensee's General Comments: Station failed to document LER numbers in comment section for SSFFs for Nov 2008. A minor data entry typing error was identified in RHRSW for Sept 2009. These revisions will not change the MSPI status of any system and all remain green.

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	1.0	0	0	0	0	0	0
Critical hours	2184.0	1843.3	2209.0	1731.1	1318.3	2208.0	2209.0	2159.0
Indicator value	**0**	**0.8**	**0.8**	**0.9**	**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/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	0	1.0	0	1.0	0	0	0	0
Critical hours	2184.0	1843.3	2209.0	1731.1	1318.3	2208.0	2209.0	2159.0
Indicator value	**0.8**	**1.7**	**0.8**	**1.8**	**2.0**	**0.9**	**0.9**	**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	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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Safety System Functional Failures	2	0	3	0	0	1	0	0
Indicator value	**4**	**2**	**5**	**5**	**3**	**4**	**1**	**1**

Licensee Comments:

4Q/08: LERs 2008-05, 2008-06, and 2008-07 were each determined to be safety system functional failures.

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 (ΔCDF)	-6.40E-10	-6.30E-10	-1.30E-09	-1.20E-09	-1.10E-09	-1.10E-09	-1.60E-09	-1.58E-09
URI (ΔCDF)	2.70E-08	2.70E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.17E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.64E-08**	**2.64E-08**	**-1.33E-08**	**-1.32E-08**	**-1.31E-08**	**-1.31E-08**	**-1.36E-08**	**-1.30E-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	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**
UAI (ΔCDF)	-1.70E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.16E-08
URI (ΔCDF)	-2.70E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.78E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.40E-08**	**-4.00E-08**	**-4.00E-08**	**-4.00E-08**	**-3.90E-08**	**-3.90E-08**	**-3.90E-08**	**-3.90E-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/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	-1.10E-08	-1.10E-08	-1.10E-08	-9.20E-09	-9.00E-09	3.30E-09	3.30E-09	2.76E-09
URI (ΔCDF)	-2.10E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.20E-08**	**-3.30E-08**	**-3.30E-08**	**-3.12E-08**	**-3.10E-08**	**-1.87E-08**	**-1.87E-08**	**-1.90E-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	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**
UAI (ΔCDF)	-3.70E-10	-3.70E-10	-3.70E-10	-3.70E-10	-3.70E-10	-3.70E-10	3.10E-10	4.58E-10
URI (ΔCDF)	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.65E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.29E-09**	**-3.20E-09**

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 (ΔCDF)	-2.00E-09	-1.58E-09	-1.29E-09	-1.33E-09	-1.22E-09	-1.23E-09	-1.17E-09	-9.77E-10
URI (ΔCDF)	2.60E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.00E-09**	**-1.60E-09**	**-1.30E-09**	**-1.30E-09**	**-1.20E-09**	**-1.20E-09**	**-1.20E-09**	**-9.70E-10**

Licensee Comments:

4Q/09: Reliability data edit for demand and run hours Sept 2008. No change to indicator color.

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	0.000331	0.000353	0.000384	0.000407	0.000434	0.000331	0.000502	0.000500	0.000657	0.000746	0.000754	0.000683
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**

Reactor Coolant System Activity	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**
Maximum activity	N/A	0.000635	0.000577	0.000539	0.000469	0.000529	0.000599	0.000519	0.000758	0.000739	0.000678	0.000647
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**N/A**	**0.3**	**0.3**	**0.3**	**0.2**	**0.3**	**0.3**	**0.3**	**0.4**	**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	**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	2.000	2.200	1.900	1.900	2.000	1.900	1.900	1.900	1.900	1.900	1.800	1.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.0**	**8.8**	**7.6**	**7.6**	**8.0**	**7.6**	**7.6**	**7.6**	**7.6**	**7.6**	**7.2**	**7.2**
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	N/A	1.800	2.400	1.800	2.000	2.000	1.900	1.900	2.000	2.000	2.000	2.000
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**N/A**	**7.2**	**9.6**	**7.2**	**8.0**	**8.0**	**7.6**	**7.6**	**8.0**	**8.0**	**8.0**	**8.0**

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	29.0	39.0	25.0	19.0	18.0	39.0	29.0	36.0
Total opportunities	29.0	39.0	26.0	19.0	18.0	47.0	30.0	36.0
Indicator value	**98.5%**	**98.4%**	**98.3%**	**98.6%**	**98.5%**	**95.7%**	**96.3%**	**95.9%**

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	113.0	112.0	123.0	118.0	118.0	143.0	144.0	147.0
Total Key personnel	113.0	112.0	123.0	118.0	118.0	143.0	144.0	147.0
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/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful siren-tests	1376	1377	1483	1268	1377	1482	1373	1364
Total sirens-tests	1378	1378	1484	1272	1378	1484	1378	1378
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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**	**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/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.

Last Modified: April 26, 2010

Monticello

2Q/2010 Performance Indicators

Licensee's General Comments: MS09 Nov 2009 and Mar 2010 unplanned unavailable hours revised to zero. Upon further review the function of SPC was always available. No color change.

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	1.0	0	0	0	0	0	0	0
Critical hours	1843.3	2209.0	1731.1	1318.3	2208.0	2209.0	2159.0	2184.0
Indicator value	**0.8**	**0.8**	**0.9**	**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/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned power changes	1.0	0	1.0	0	0	0	0	0
Critical hours	1843.3	2209.0	1731.1	1318.3	2208.0	2209.0	2159.0	2184.0
Indicator value	**1.7**	**0.8**	**1.8**	**2.0**	**0.9**	**0.9**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Scrams with complications	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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Safety System Functional Failures	0	3	0	0	1	0	0	0
Indicator value	**2**	**5**	**5**	**3**	**4**	**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/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**
UAI (ΔCDF)	-6.30E-10	-1.30E-09	-1.20E-09	-1.10E-09	-1.10E-09	-1.60E-09	-1.58E-09	-1.58E-09
URI (ΔCDF)	2.70E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.17E-08	-1.17E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.64E-08**	**-1.33E-08**	**-1.32E-08**	**-1.31E-08**	**-1.31E-08**	**-1.36E-08**	**-1.30E-08**	**-1.30E-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	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**
UAI (ΔCDF)	-1.20E-08	-1.20E-08	-1.20E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.16E-08	-1.18E-08
URI (ΔCDF)	-2.80E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.78E-08	-2.78E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.00E-08**	**-4.00E-08**	**-4.00E-08**	**-3.90E-08**	**-3.90E-08**	**-3.90E-08**	**-3.90E-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	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	-1.10E-08	-1.10E-08	-9.20E-09	-9.00E-09	3.30E-09	3.30E-09	2.76E-09	2.34E-09
URI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.30E-08**	**-3.30E-08**	**-3.12E-08**	**-3.10E-08**	**-1.87E-08**	**-1.87E-08**	**-1.90E-08**	**-2.00E-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/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**
UAI (ΔCDF)	-3.70E-10	-3.70E-10	-3.70E-10	-3.70E-10	-3.70E-10	1.85E-11	-1.25E-11	-7.67E-11
URI (ΔCDF)	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.65E-09	-3.65E-09	-3.65E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.60E-09**	**-3.70E-09**	**-3.70E-09**

Licensee Comments:

1Q/10: Mar unplanned hours revised to zero. Upon further review the function of SPC was always available. No color change.

4Q/09: Nov 2009 Unplanned hours revised to zero. Upon further review the function of SPC was always available. No color change.

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 (ΔCDF)	-1.58E-09	-1.29E-09	-1.33E-09	-1.22E-09	-1.23E-09	-1.17E-09	-9.77E-10	-1.19E-09
URI (ΔCDF)	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-09**	**-1.30E-09**	**-1.30E-09**	**-1.20E-09**	**-1.20E-09**	**-1.20E-09**	**-9.70E-10**	**-1.20E-09**

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	0.000407	0.000434	0.000331	0.000502	0.000500	0.000657	0.000746	0.000754	0.000683	N/A	0.000635	0.000577
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**	**N/A**	**0.3**	**0.3**

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	0.000539	0.000469	0.000529	0.000599	0.000519	0.000758	0.000739	0.000678	0.000647	0.000943	0.000823	0.000607
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.3**	**0.2**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**	**0.3**	**0.5**	**0.4**	**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	1.900	2.000	1.900	1.900	1.900	1.900	1.900	1.800	1.800	N/A	1.800	2.400
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**8.0**	**7.6**	**7.6**	**7.6**	**7.6**	**7.6**	**7.2**	**7.2**	**N/A**	**7.2**	**9.6**
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	1.800	2.000	2.000	1.900	1.900	2.000	2.000	2.000	2.000	1.900	2.100	2.100
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.2**	**8.0**	**8.0**	**7.6**	**7.6**	**8.0**	**8.0**	**8.0**	**8.0**	**7.6**	**8.4**	**8.4**

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	39.0	25.0	19.0	18.0	39.0	29.0	36.0	30.0
Total opportunities	39.0	26.0	19.0	18.0	47.0	30.0	36.0	31.0
Indicator value	**98.4%**	**98.3%**	**98.6%**	**98.5%**	**95.7%**	**96.3%**	**95.9%**	**95.5%**

Licensee Comments: none

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	112.0	123.0	118.0	118.0	143.0	144.0	147.0	145.0
Total Key personnel	112.0	123.0	118.0	118.0	143.0	144.0	147.0	145.0
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/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful siren-tests	1377	1483	1268	1377	1482	1373	1364	1327
Total sirens-tests	1378	1484	1272	1378	1484	1378	1378	1378
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.6%**	**98.7%**

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**	**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/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.

Last Modified: July 26, 2010

Monticello

3Q/2010 Performance Indicators

Licensee's General Comments: none

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	0	0	0
Critical hours	2209.0	1731.1	1318.3	2208.0	2209.0	2159.0	2184.0	2208.0
Indicator value	**0.8**	**0.9**	**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/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2209.0	1731.1	1318.3	2208.0	2209.0	2159.0	2184.0	2208.0
Indicator value	**0.8**	**1.8**	**2.0**	**0.9**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Safety System Functional Failures	3	0	0	1	0	0	0	1
Indicator value	**5**	**5**	**3**	**4**	**1**	**1**	**1**	**1**

Licensee Comments:

3Q/10: LER 2010-002

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	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	-1.30E-09	-1.20E-09	-1.10E-09	-1.10E-09	-1.60E-09	-1.58E-09	-1.58E-09	-1.58E-09
URI (ΔCDF)	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.17E-08	-1.17E-08	-1.17E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.33E-08**	**-1.32E-08**	**-1.31E-08**	**-1.31E-08**	**-1.36E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-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	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**
UAI (ΔCDF)	-1.20E-08	-1.20E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.16E-08	-1.18E-08	-1.18E-08
URI (ΔCDF)	-2.80E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.78E-08	-2.78E-08	-2.78E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.00E-08**	**-4.00E-08**	**-3.90E-08**	**-3.90E-08**	**-3.90E-08**	**-3.90E-08**	**-4.00E-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/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	-1.10E-08	-9.20E-09	-9.00E-09	3.30E-09	3.30E-09	2.76E-09	2.34E-09	2.34E-09
URI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.30E-08**	**-3.12E-08**	**-3.10E-08**	**-1.87E-08**	**-1.87E-08**	**-1.90E-08**	**-2.00E-08**	**-2.00E-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	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**
UAI (ΔCDF)	-3.70E-10	-3.70E-10	-3.70E-10	-3.70E-10	1.85E-11	-1.25E-11	-7.67E-11	-1.22E-10
URI (ΔCDF)	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.60E-09**	**-3.70E-09**	**-3.70E-09**	**-3.80E-09**

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 (ΔCDF)	-1.29E-09	-1.33E-09	-1.22E-09	-1.23E-09	-1.17E-09	-9.77E-10	-1.19E-09	-1.19E-09
URI (ΔCDF)	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-09**	**-1.30E-09**	**-1.20E-09**	**-1.20E-09**	**-1.20E-09**	**-9.70E-10**	**-1.20E-09**	**-1.20E-09**

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	0.000502	0.000500	0.000657	0.000746	0.000754	0.000683	N/A	0.000635	0.000577	0.000539	0.000469	0.000529
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**	**N/A**	**0.3**	**0.3**	**0.3**	**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	0.000599	0.000519	0.000758	0.000739	0.000678	0.000647	0.000943	0.000823	0.000607	0.000509	0.000628	0.000544
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**	**0.3**	**0.5**	**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	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum leakage	1.900	1.900	1.900	1.900	1.800	1.800	N/A	1.800	2.400	1.800	2.000	2.000
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**7.6**	**7.6**	**7.6**	**7.2**	**7.2**	**N/A**	**7.2**	**9.6**	**7.2**	**8.0**	**8.0**
Reactor Coolant System Leakage	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**
Maximum leakage	1.900	1.900	2.000	2.000	2.000	2.000	1.900	2.100	2.100	1.800	1.700	1.700
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**7.6**	**8.0**	**8.0**	**8.0**	**8.0**	**7.6**	**8.4**	**8.4**	**7.2**	**6.8**	**6.8**

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	25.0	19.0	18.0	39.0	29.0	36.0	30.0	41.0
Total opportunities	26.0	19.0	18.0	47.0	30.0	36.0	31.0	43.0
Indicator value	**98.3%**	**98.6%**	**98.5%**	**95.7%**	**96.3%**	**95.9%**	**95.5%**	**94.8%**

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	123.0	118.0	118.0	143.0	144.0	147.0	145.0	138.0
Total Key personnel	123.0	118.0	118.0	143.0	144.0	147.0	145.0	138.0
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/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful siren-tests	1483	1268	1377	1482	1373	1364	1327	1375
Total sirens-tests	1484	1272	1378	1484	1378	1378	1378	1378
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.6%**	**98.7%**	**98.7%**

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**	**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/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.

Last Modified: October 25, 2010

Monticello

4Q/2010 Performance Indicators

Licensee's General Comments: none

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	0	0	0	0
Critical hours	1731.1	1318.3	2208.0	2209.0	2159.0	2184.0	2208.0	2079.9
Indicator value	**0.9**	**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/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned power changes	1.0	0	0	0	0	0	0	1.0
Critical hours	1731.1	1318.3	2208.0	2209.0	2159.0	2184.0	2208.0	2079.9
Indicator value	**1.8**	**2.0**	**0.9**	**0.9**	**0**	**0**	**0**	**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	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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Safety System Functional Failures	0	0	1	0	0	0	1	3
Indicator value	**5**	**3**	**4**	**1**	**1**	**1**	**1**	**4**

Licensee Comments:

4Q/10: LER 2010-003, LER 2010-004, LER 2010-006

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 (ΔCDF)	-1.20E-09	-1.10E-09	-1.10E-09	-1.60E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09
URI (ΔCDF)	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.32E-08**	**-1.31E-08**	**-1.31E-08**	**-1.36E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-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/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	-1.20E-08	-1.10E-08	-1.10E-08	-1.10E-08	-1.16E-08	-1.18E-08	-1.18E-08	-1.17E-08
URI (ΔCDF)	-2.80E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.00E-08**	**-3.90E-08**	**-3.90E-08**	**-3.90E-08**	**-3.90E-08**	**-4.00E-08**	**-4.00E-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	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (ΔCDF)	-9.20E-09	-9.00E-09	3.30E-09	3.30E-09	2.76E-09	2.34E-09	2.34E-09	2.43E-09
URI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.12E-08**	**-3.10E-08**	**-1.87E-08**	**-1.87E-08**	**-1.90E-08**	**-2.00E-08**	**-2.00E-08**	**-2.00E-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	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	-3.70E-10	-3.70E-10	-3.70E-10	-1.76E-10	-2.01E-10	-2.61E-10	-3.06E-10	-1.61E-10
URI (ΔCDF)	-3.60E-09	-3.60E-09	-3.60E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.97E-09**	**-3.97E-09**	**-3.97E-09**	**-3.80E-09**	**-3.80E-09**	**-3.90E-09**	**-4.00E-09**	**-3.80E-09**

Licensee Comments:

1Q/10: Mar unplanned hours revised to zero. Upon further review the function of SPC was always available. No color change.

4Q/09: Nov 2009 Unplanned hours revised to zero. Upon further review the function of SPC was always available. No color change.

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 (ΔCDF)	-1.33E-09	-1.22E-09	-1.22E-09	-1.16E-09	-9.71E-10	-1.18E-09	-1.18E-09	-9.73E-10
URI (ΔCDF)	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-09**	**-1.20E-09**	**-1.20E-09**	**-1.20E-09**	**-9.70E-10**	**-1.20E-09**	**-1.20E-09**	**-9.70E-10**

Licensee Comments:

4Q/09: Reliability data edit for demand and run hours Sept 2008. No change to indicator color.

3Q/09: No significant change in number reported and no indicator color change.

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	0.000746	0.000754	0.000683	N/A	0.000635	0.000577	0.000539	0.000469	0.000529	0.000599	0.000519	0.000758
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.4**	**0.4**	**0.3**	**N/A**	**0.3**	**0.3**	**0.3**	**0.2**	**0.3**	**0.3**	**0.3**	**0.4**

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	0.000739	0.000678	0.000647	0.000943	0.000823	0.000607	0.000509	0.000628	0.000544	0.000489	0.000620	0.000621
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.4**	**0.3**	**0.3**	**0.5**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.3**	**0.3**

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	1.900	1.800	1.800	N/A	1.800	2.400	1.800	2.000	2.000	1.900	1.900	2.000
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**7.2**	**7.2**	**N/A**	**7.2**	**9.6**	**7.2**	**8.0**	**8.0**	**7.6**	**7.6**	**8.0**
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	2.000	2.000	2.000	1.900	2.100	2.100	1.800	1.700	1.700	1.600	1.600	1.600
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.0**	**8.0**	**8.0**	**7.6**	**8.4**	**8.4**	**7.2**	**6.8**	**6.8**	**6.4**	**6.4**	**6.4**

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	19.0	18.0	39.0	29.0	36.0	30.0	41.0	16.0
Total opportunities	19.0	18.0	47.0	30.0	36.0	31.0	43.0	17.0
Indicator value	**98.6%**	**98.5%**	**95.7%**	**96.3%**	**95.9%**	**95.5%**	**94.8%**	**94.6%**

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	118.0	118.0	143.0	144.0	147.0	145.0	138.0	136.0
Total Key personnel	118.0	118.0	143.0	144.0	147.0	145.0	138.0	136.0
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/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful siren-tests	1268	1377	1482	1373	1364	1327	1375	1376
Total sirens-tests	1272	1378	1484	1378	1378	1378	1378	1378
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.6%**	**98.7%**	**98.7%**	**98.7%**

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**	**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/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.

Last Modified: January 24, 2011

Monticello

1Q/2011 Performance Indicators

Licensee's General Comments: none

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	0	0	0	0	0
Critical hours	1318.3	2208.0	2209.0	2159.0	2184.0	2208.0	2079.9	1514.7
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/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	1318.3	2208.0	2209.0	2159.0	2184.0	2208.0	2079.9	1514.7
Indicator value	**2.0**	**0.9**	**0.9**	**0**	**0**	**0**	**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	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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Safety System Functional Failures	0	1	0	0	0	1	3	0
Indicator value	**3**	**4**	**1**	**1**	**1**	**1**	**4**	**4**

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 (ΔCDF)	-1.10E-09	-1.10E-09	-1.60E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09
URI (ΔCDF)	-1.20E-08	-1.20E-08	-1.20E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.31E-08**	**-1.31E-08**	**-1.36E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-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	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**
UAI (ΔCDF)	-1.10E-08	-1.10E-08	-1.10E-08	-1.16E-08	-1.18E-08	-1.18E-08	-1.17E-08	-1.16E-08
URI (ΔCDF)	-2.80E-08	-2.80E-08	-2.80E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.90E-08**	**-3.90E-08**	**-3.90E-08**	**-3.90E-08**	**-4.00E-08**	**-4.00E-08**	**-4.00E-08**	**-3.90E-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/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	-9.00E-09	3.30E-09	3.30E-09	2.76E-09	2.34E-09	2.34E-09	2.43E-09	-2.66E-10
URI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-08**	**-1.87E-08**	**-1.87E-08**	**-1.90E-08**	**-2.00E-08**	**-2.00E-08**	**-2.00E-08**	**-2.20E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**
UAI (ΔCDF)	-3.70E-10	-3.70E-10	-1.76E-10	-2.01E-10	-2.61E-10	-3.06E-10	-1.61E-10	-1.89E-10
URI (ΔCDF)	-3.60E-09	-3.60E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.97E-09**	**-3.97E-09**	**-3.80E-09**	**-3.80E-09**	**-3.90E-09**	**-4.00E-09**	**-3.80E-09**	**-3.80E-09**

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 (ΔCDF)	-1.22E-09	-1.22E-09	-1.16E-09	-9.71E-10	-1.18E-09	-1.18E-09	-9.73E-10	-1.18E-09
URI (ΔCDF)	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	-1.25E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-09**	**-1.20E-09**	**-1.20E-09**	**-9.70E-10**	**-1.20E-09**	**-1.20E-09**	**-9.70E-10**	**-1.20E-09**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**
Maximum activity	N/A	0.000635	0.000577	0.000539	0.000469	0.000529	0.000599	0.000519	0.000758	0.000739	0.000678	0.000647
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**N/A**	**0.3**	**0.3**	**0.3**	**0.2**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**	**0.3**

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	0.000943	0.000823	0.000607	0.000509	0.000628	0.000544	0.000489	0.000620	0.000621	0.000662	0.000704	0.000590
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.5**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.3**	**0.3**	**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	**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	N/A	1.800	2.400	1.800	2.000	2.000	1.900	1.900	2.000	2.000	2.000	2.000
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**N/A**	**7.2**	**9.6**	**7.2**	**8.0**	**8.0**	**7.6**	**7.6**	**8.0**	**8.0**	**8.0**	**8.0**
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	1.900	2.100	2.100	1.800	1.700	1.700	1.600	1.600	1.600	1.800	1.800	1.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**8.4**	**8.4**	**7.2**	**6.8**	**6.8**	**6.4**	**6.4**	**6.4**	**7.2**	**7.2**	**7.2**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful opportunities	18.0	39.0	29.0	36.0	30.0	41.0	16.0	18.0
Total opportunities	18.0	47.0	30.0	36.0	31.0	43.0	17.0	19.0
Indicator value	**98.5%**	**95.7%**	**96.3%**	**95.9%**	**95.5%**	**94.8%**	**94.6%**	**94.2%**

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	118.0	143.0	144.0	147.0	145.0	138.0	136.0	145.0
Total Key personnel	118.0	143.0	144.0	147.0	145.0	138.0	136.0	145.0
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/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful siren-tests	1377	1482	1373	1364	1327	1375	1376	1373
Total sirens-tests	1378	1484	1378	1378	1378	1378	1378	1378
Indicator value	**99.9%**	**99.9%**	**99.8%**	**99.6%**	**98.7%**	**98.7%**	**98.7%**	**98.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**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/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.

Last Modified: May 4, 2011

Monticello

2Q/2011 Performance Indicators

Licensee's General Comments: none

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	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	2208.0	2079.9	1514.7	888.5
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/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned power changes	0	0	0	0	0	1.0	0	1.0
Critical hours	2208.0	2209.0	2159.0	2184.0	2208.0	2079.9	1514.7	888.5
Indicator value	**0.9**	**0.9**	**0**	**0**	**0**	**0.8**	**0.9**	**2.1**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Safety System Functional Failures	1	0	0	0	0	2	0	0
Indicator value	**4**	**1**	**1**	**1**	**0**	**2**	**2**	**2**

Licensee Comments:

4Q/10: LER 2010-003, LER 2010-004, LER 2010-006. LER 2010-003 was previously submitted as a SSFF. A subsequent Secondary Containment Capability test -performed and evaluation confirmed that the Standby Gas Treatment system remained capable of performing its safety function in the plant configuration that existed on August 5, 2010, including consideration for penetrations that were or may have been open at the time. LER 2010-003, Supplement 1 was submitted to NRC on June 13, 2011. No color change affected.

3Q/10: LER 2010-002. This LER was previously submitted as a SSFF. A subsequent Secondary Containment Capability test performed and evaluation confirmed that the Standby Gas Treatment system remained capable of performing its safety function in the plant configuration that existed on June 30, 2010, including consideration for penetrations that were or may have been open at the time. LER 2010-002, Supplement 1 was submitted to NRC on June 13, 2011. No color change affected.

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 (ΔCDF)	-1.10E-09	-1.60E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09
URI (ΔCDF)	-1.20E-08	-1.20E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.31E-08**	**-1.36E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-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	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**
UAI (ΔCDF)	-1.10E-08	-1.10E-08	-1.16E-08	-1.18E-08	-1.18E-08	-1.17E-08	-1.16E-08	-1.13E-08
URI (ΔCDF)	-2.80E-08	-2.80E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.90E-08**	**-3.90E-08**	**-3.90E-08**	**-4.00E-08**	**-4.00E-08**	**-4.00E-08**	**-3.90E-08**	**-3.90E-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/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	3.30E-09	3.30E-09	2.76E-09	2.34E-09	2.34E-09	2.43E-09	-2.66E-10	5.44E-10
URI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.87E-08**	**-1.87E-08**	**-1.90E-08**	**-2.00E-08**	**-2.00E-08**	**-2.00E-08**	**-2.20E-08**	**-2.10E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**
UAI (ΔCDF)	-3.70E-10	-1.76E-10	-2.01E-10	-2.61E-10	-3.06E-10	-1.61E-10	-1.89E-10	-1.56E-10
URI (ΔCDF)	-3.60E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.97E-09**	**-3.80E-09**	**-3.80E-09**	**-3.90E-09**	**-4.00E-09**	**-3.80E-09**	**-3.80E-09**	**-3.80E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	-1.22E-09	-1.16E-09	-9.71E-10	-1.18E-09	-1.18E-09	-9.73E-10	-1.18E-09	-1.19E-09
URI (ΔCDF)	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	-1.25E-11	-1.25E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-09**	**-1.20E-09**	**-9.70E-10**	**-1.20E-09**	**-1.20E-09**	**-9.70E-10**	**-1.20E-09**	**-1.20E-09**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**
Maximum activity	0.000539	0.000469	0.000529	0.000599	0.000519	0.000758	0.000739	0.000678	0.000647	0.000943	0.000823	0.000607
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.3**	**0.2**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**	**0.3**	**0.5**	**0.4**	**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	0.000509	0.000628	0.000544	0.000489	0.000620	0.000621	0.000662	0.000704	0.000590	N/A	N/A	0.000568
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.3**	**0.3**	**0.3**	**0.2**	**0.3**	**0.3**	**0.3**	**0.4**	**0.3**	**N/A**	**N/A**	**0.3**

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	1.800	2.000	2.000	1.900	1.900	2.000	2.000	2.000	2.000	1.900	2.100	2.100
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.2**	**8.0**	**8.0**	**7.6**	**7.6**	**8.0**	**8.0**	**8.0**	**8.0**	**7.6**	**8.4**	**8.4**
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	1.800	1.700	1.700	1.600	1.600	1.600	1.800	1.800	1.800	N/A	1.600	1.700
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.2**	**6.8**	**6.8**	**6.4**	**6.4**	**6.4**	**7.2**	**7.2**	**7.2**	**N/A**	**6.4**	**6.8**

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	39.0	29.0	36.0	30.0	41.0	16.0	18.0	17.0
Total opportunities	47.0	30.0	36.0	31.0	43.0	17.0	19.0	17.0
Indicator value	**95.7%**	**96.3%**	**95.9%**	**95.5%**	**94.8%**	**94.6%**	**94.2%**	**94.2%**

Licensee Comments: none

Notes

ERO Drill Participation	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Participating Key personnel	143.0	144.0	147.0	145.0	138.0	136.0	145.0	146.0
Total Key personnel	143.0	144.0	147.0	145.0	138.0	136.0	145.0	146.0
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/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful siren-tests	1482	1373	1364	1327	1375	1376	1373	1377
Total sirens-tests	1484	1378	1378	1378	1378	1378	1378	1378
Indicator value	**99.9%**	**99.8%**	**99.6%**	**98.7%**	**98.7%**	**98.7%**	**98.9%**	**99.8%**

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**	**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/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.

Last Modified: July 22, 2011

Monticello

3Q/2011 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	2079.9	1514.7	888.5	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/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned power changes	0	0	0	0	1.0	0	1.0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	2079.9	1514.7	888.5	2208.0
Indicator value	**0.9**	**0**	**0**	**0**	**0.8**	**0.9**	**2.1**	**2.1**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Safety System Functional Failures	0	0	0	0	2	0	0	0
Indicator value	**1**	**1**	**1**	**0**	**2**	**2**	**2**	**2**

Licensee Comments:

3Q/10: LER 2010-002. This LER was previously submitted as a SSFF. A subsequent Secondary Containment Capability test performed and evaluation confirmed that the Standby Gas Treatment system remained capable of performing its safety function in the plant configuration that existed on June 3, 2010, including consideration for penetrations that were or may have been open at the time. LER 2010-002, Supplement 1 was submitted to NRC on June 13, 2011. No color change affected.

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 (ΔCDF)	-1.60E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09
URI (ΔCDF)	-1.20E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.16E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.36E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011 to incorporate changes from FAQ 11-07: Fuel Oil Transfer Pump Failures.

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 (ΔCDF)	-1.10E-08	-1.16E-08	-1.18E-08	-1.18E-08	-1.17E-08	-1.16E-08	-1.13E-08	-1.68E-08
URI (ΔCDF)	-2.80E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.71E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.90E-08**	**-3.90E-08**	**-4.00E-08**	**-4.00E-08**	**-4.00E-08**	**-3.90E-08**	**-3.90E-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	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**
UAI (ΔCDF)	3.30E-09	2.76E-09	2.34E-09	2.34E-09	2.43E-09	-2.66E-10	5.44E-10	2.31E-09
URI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.11E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.87E-08**	**-1.90E-08**	**-2.00E-08**	**-2.00E-08**	**-2.00E-08**	**-2.20E-08**	**-2.10E-08**	**-1.90E-08**

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Removed non-MSPI credited functions of RHR from the simplified system drawing.

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 (ΔCDF)	-1.76E-10	-2.01E-10	-2.61E-10	-3.06E-10	-1.61E-10	-1.89E-10	-1.56E-10	1.05E-10
URI (ΔCDF)	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.80E-09**	**-3.80E-09**	**-3.90E-09**	**-4.00E-09**	**-3.80E-09**	**-3.80E-09**	**-3.80E-09**	**-3.50E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**
UAI (ΔCDF)	-1.16E-09	-9.71E-10	-1.18E-09	-1.18E-09	-9.73E-10	-1.18E-09	-1.19E-09	-1.74E-09
URI (ΔCDF)	2.39E-12	2.39E-12	2.39E-12	2.39E-12	2.39E-12	-1.25E-11	-1.25E-11	-1.24E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-09**	**-9.70E-10**	**-1.20E-09**	**-1.20E-09**	**-9.70E-10**	**-1.20E-09**	**-1.20E-09**	**-1.80E-09**

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Updated RHRSW system boundaries to exclude SV-4397A, SV-4397B, PCV-3004, and PCV-3005. The listed valves had their internals removed.

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	0.000599	0.000519	0.000758	0.000739	0.000678	0.000647	0.000943	0.000823	0.000607	0.000509	0.000628	0.000544
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**	**0.3**	**0.5**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**

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	0.000489	0.000620	0.000621	0.000662	0.000704	0.000590	N/A	N/A	0.000568	0.000554	0.000535	0.000511
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.3**	**0.3**	**0.3**	**0.4**	**0.3**	**N/A**	**N/A**	**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	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**
Maximum leakage	1.900	1.900	2.000	2.000	2.000	2.000	1.900	2.100	2.100	1.800	1.700	1.700
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**7.6**	**8.0**	**8.0**	**8.0**	**8.0**	**7.6**	**8.4**	**8.4**	**7.2**	**6.8**	**6.8**
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	1.600	1.600	1.600	1.800	1.800	1.800	N/A	1.600	1.700	1.700	1.800	1.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.4**	**6.4**	**6.4**	**7.2**	**7.2**	**7.2**	**N/A**	**6.4**	**6.8**	**6.8**	**7.2**	**7.2**

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	29.0	36.0	30.0	41.0	16.0	18.0	17.0	62.0
Total opportunities	30.0	36.0	31.0	43.0	17.0	19.0	17.0	67.0
Indicator value	**96.3%**	**95.9%**	**95.5%**	**94.8%**	**94.6%**	**94.2%**	**94.2%**	**95.8%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Participating Key personnel	144.0	147.0	145.0	138.0	136.0	145.0	146.0	143.0
Total Key personnel	144.0	147.0	145.0	138.0	136.0	145.0	146.0	143.0
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/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful siren-tests	1373	1364	1327	1375	1376	1373	1377	1373
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	**99.8%**	**99.6%**	**98.7%**	**98.7%**	**98.7%**	**98.9%**	**99.8%**	**99.8%**

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**	**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/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.

Last Modified: November 29, 2011

Monticello

4Q/2011 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned scrams	0	0	0	0	0	0	0	2.0
Critical hours	2159.0	2184.0	2208.0	2079.9	1514.7	888.5	2208.0	1638.9
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**2.2**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned power changes	0	0	0	1.0	0	1.0	0	0
Critical hours	2159.0	2184.0	2208.0	2079.9	1514.7	888.5	2208.0	1638.9
Indicator value	**0**	**0**	**0**	**0.8**	**0.9**	**2.1**	**2.1**	**1.1**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Scrams with complications	0	0	0	0	0	0	0	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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Safety System Functional Failures	0	0	0	2	0	0	0	1
Indicator value	**1**	**1**	**0**	**2**	**2**	**2**	**2**	**1**

Licensee Comments:

4Q/11: LER 2011-008

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 (ΔCDF)	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.18E-09
URI (ΔCDF)	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.16E-08	-2.26E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-3.40E-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 (ΔCDF)	-1.16E-08	-1.18E-08	-1.18E-08	-1.17E-08	-1.16E-08	-1.13E-08	-1.68E-08	-1.68E-08
URI (ΔCDF)	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.71E-08	-2.71E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.90E-08**	**-4.00E-08**	**-4.00E-08**	**-4.00E-08**	**-3.90E-08**	**-3.90E-08**	**-4.40E-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/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	2.76E-09	2.34E-09	2.34E-09	2.43E-09	-2.66E-10	5.44E-10	2.31E-09	2.73E-09
URI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.11E-08	-2.11E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-08**	**-2.00E-08**	**-2.00E-08**	**-2.00E-08**	**-2.20E-08**	**-2.10E-08**	**-1.90E-08**	**-1.80E-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	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	-2.01E-10	-2.61E-10	-3.06E-10	-1.61E-10	-1.89E-10	-1.56E-10	1.05E-10	2.28E-10
URI (ΔCDF)	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.60E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.80E-09**	**-3.90E-09**	**-4.00E-09**	**-3.80E-09**	**-3.80E-09**	**-3.80E-09**	**-3.50E-09**	**-3.40E-09**

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 (ΔCDF)	-9.71E-10	-1.18E-09	-1.18E-09	-9.73E-10	-1.18E-09	-1.19E-09	-1.74E-09	-2.10E-09
URI (ΔCDF)	2.39E-12	2.39E-12	2.39E-12	2.39E-12	-1.25E-11	-1.25E-11	-1.24E-11	-1.24E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.70E-10**	**-1.20E-09**	**-1.20E-09**	**-9.70E-10**	**-1.20E-09**	**-1.20E-09**	**-1.80E-09**	**-2.10E-09**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**
Maximum activity	0.000739	0.000678	0.000647	0.000943	0.000823	0.000607	0.000509	0.000628	0.000544	0.000489	0.000620	0.000621
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.4**	**0.3**	**0.3**	**0.5**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.3**	**0.3**

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	0.000662	0.000704	0.000590	N/A	N/A	0.000568	0.000554	0.000535	0.000511	0.000472	0.000472	0.000482
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.3**	**0.4**	**0.3**	**N/A**	**N/A**	**0.3**	**0.3**	**0.3**	**0.3**	**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	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum leakage	2.000	2.000	2.000	1.900	2.100	2.100	1.800	1.700	1.700	1.600	1.600	1.600
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**8.0**	**8.0**	**8.0**	**7.6**	**8.4**	**8.4**	**7.2**	**6.8**	**6.8**	**6.4**	**6.4**	**6.4**
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	1.800	1.800	1.800	N/A	1.600	1.700	1.700	1.800	1.800	1.700	1.700	1.700
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.2**	**7.2**	**7.2**	**N/A**	**6.4**	**6.8**	**6.8**	**7.2**	**7.2**	**6.8**	**6.8**	**6.8**

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	36.0	30.0	41.0	16.0	18.0	17.0	62.0	49.0
Total opportunities	36.0	31.0	43.0	17.0	19.0	17.0	67.0	52.0
Indicator value	**95.9%**	**95.5%**	**94.8%**	**94.6%**	**94.2%**	**94.2%**	**95.8%**	**95.4%**

Licensee Comments: none

Notes

ERO Drill Participation	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Participating Key personnel	147.0	145.0	138.0	136.0	145.0	146.0	143.0	148.0
Total Key personnel	147.0	145.0	138.0	136.0	145.0	146.0	143.0	148.0
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	1364	1327	1375	1376	1373	1377	1373	1375
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	**99.6%**	**98.7%**	**98.7%**	**98.7%**	**98.9%**	**99.8%**	**99.8%**	**99.7%**

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**	**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/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.

Last Modified: February 2, 2012

Monticello

1Q/2012 Performance Indicators

Licensee's General Comments: none

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	2.0	0
Critical hours	2184.0	2208.0	2079.9	1514.7	888.5	2208.0	1638.9	2183.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**2.2**	**2.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	0	0	1.0	0	1.0	0	0	0
Critical hours	2184.0	2208.0	2079.9	1514.7	888.5	2208.0	1638.9	2183.0
Indicator value	**0**	**0**	**0.8**	**0.9**	**2.1**	**2.1**	**1.1**	**1.0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Scrams with complications	0	0	0	0	0	0	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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Safety System Functional Failures	0	0	2	0	0	0	1	1
Indicator value	**1**	**0**	**2**	**2**	**2**	**2**	**1**	**2**

Licensee Comments:

1Q/12: LER 2011-10

4Q/11: LER 2011-008

4Q/10: LER 2010-003, LER 2010-004, LER 2010-006. LER 2010-003 was previously submitted as a SSFF. A subsequent Secondary Containment Capability test -performed and evaluation confirmed that the Standby Gas Treatment system remained capable of performing its safety function in the plant configuration that existed on August 5, 2010, including consideration for penetrations that were or may have been open at the time. LER 2010-003, Supplement 1 was submitted to NRC on June 13, 2011. No color change affected.

4Q/10: LER 2010-003, LER 2010-004, LER 2010-006

3Q/10: LER 2010-002

3Q/10: LER 2010-002. This LER was previously submitted as a SSFF. A subsequent Secondary Containment Capability test performed and evaluation confirmed that the Standby Gas Treatment system remained capable of performing its safety function in the plant configuration that existed on June 3, 2010, including consideration for penetrations that were or may have been open at the time. LER 2010-002, Supplement 1 was submitted to NRC on June 13, 2011. No color change affected.

3Q/10: LER 2010-002. This LER was previously submitted as a SSFF. A subsequent Secondary Containment Capability test performed and evaluation confirmed that the Standby Gas Treatment system remained capable of performing its safety function in the plant configuration that existed on June 30, 2010, including consideration for penetrations that were or may have been open at the time. LER 2010-002, Supplement 1 was submitted to NRC on June 13, 2011. No color change affected.

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 (ΔCDF)	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.18E-09	-1.19E-09
URI (ΔCDF)	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.16E-08	-2.26E-09	-1.93E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-3.40E-09**	**-3.10E-09**

Licensee Comments:

1Q/12: Emergency AC Power MSPI estimated run hours changed to align with new run hours definition per NRC Response to FAQ 11-06. Emergency AC Power MSPI estimated load run demands updated to correct latent error on A-EDG. No color change.

3Q/11: Updated MSPI Basis document on September 26, 2011 to incorporate changes from FAQ 11-07: Fuel Oil Transfer Pump Failures.

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 (ΔCDF)	-1.18E-08	-1.18E-08	-1.17E-08	-1.16E-08	-1.13E-08	-1.68E-08	-1.68E-08	-1.68E-08
URI (ΔCDF)	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.71E-08	-2.71E-08	-2.71E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.00E-08**	**-4.00E-08**	**-4.00E-08**	**-3.90E-08**	**-3.90E-08**	**-4.40E-08**	**-4.40E-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	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	2.34E-09	2.34E-09	2.43E-09	-2.66E-10	5.44E-10	2.31E-09	2.73E-09	2.63E-10
URI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.11E-08	-2.11E-08	-2.11E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.00E-08**	**-2.00E-08**	**-2.00E-08**	**-2.20E-08**	**-2.10E-08**	**-1.90E-08**	**-1.80E-08**	**-2.10E-08**

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Removed non-MSPI credited functions of RHR from the simplified system drawing.

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 (ΔCDF)	-2.61E-10	-3.06E-10	-1.61E-10	-1.89E-10	-1.56E-10	-2.21E-11	9.74E-11	-7.79E-11
URI (ΔCDF)	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.60E-09	-3.60E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.90E-09**	**-4.00E-09**	**-3.80E-09**	**-3.80E-09**	**-3.80E-09**	**-3.60E-09**	**-3.50E-09**	**-3.70E-09**

Licensee Comments:

3Q/11: Hours previously reported for August and September 2011 were conservative, no MSPI color change.

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 (ΔCDF)	-1.18E-09	-1.18E-09	-9.73E-10	-1.18E-09	-1.19E-09	-1.74E-09	-2.10E-09	-2.16E-09
URI (ΔCDF)	2.39E-12	2.39E-12	2.39E-12	-1.25E-11	-1.25E-11	-1.24E-11	-1.24E-11	-1.24E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-09**	**-1.20E-09**	**-9.70E-10**	**-1.20E-09**	**-1.20E-09**	**-1.80E-09**	**-2.10E-09**	**-2.20E-09**

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Updated RHRSW system boundaries to exclude SV-4397A, SV-4397B, PCV-3004, and PCV-3005. The listed valves had their internals removed.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**
Maximum activity	0.000943	0.000823	0.000607	0.000509	0.000628	0.000544	0.000489	0.000620	0.000621	0.000662	0.000704	0.000590
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.5**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.3**	**0.3**	**0.3**	**0.4**	**0.3**

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	N/A	N/A	0.000568	0.000554	0.000535	0.000511	0.000472	0.000472	0.000482	0.000466	0.000420	0.000346
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**N/A**	**N/A**	**0.3**	**0.3**	**0.3**	**0.3**	**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	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**
Maximum leakage	1.900	2.100	2.100	1.800	1.700	1.700	1.600	1.600	1.600	1.800	1.800	1.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**8.4**	**8.4**	**7.2**	**6.8**	**6.8**	**6.4**	**6.4**	**6.4**	**7.2**	**7.2**	**7.2**
Reactor Coolant System Leakage	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**
Maximum leakage	N/A	1.600	1.700	1.700	1.800	1.800	1.700	1.700	1.700	1.600	1.700	1.700
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**N/A**	**6.4**	**6.8**	**6.8**	**7.2**	**7.2**	**6.8**	**6.8**	**6.8**	**6.4**	**6.8**	**6.8**

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	30.0	41.0	16.0	18.0	17.0	62.0	49.0	45.0
Total opportunities	31.0	43.0	17.0	19.0	17.0	67.0	52.0	47.0
Indicator value	**95.5%**	**94.8%**	**94.6%**	**94.2%**	**94.2%**	**95.8%**	**95.4%**	**94.9%**

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	145.0	138.0	136.0	145.0	146.0	143.0	148.0	146.0
Total Key personnel	145.0	138.0	136.0	145.0	146.0	143.0	148.0	146.0
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/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful siren-tests	1327	1375	1376	1373	1377	1373	1375	1374
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	**98.7%**	**98.7%**	**98.7%**	**98.9%**	**99.8%**	**99.8%**	**99.7%**	**99.8%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**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/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.

Last Modified: April 24, 2012

Monticello

2Q/2012 Performance Indicators

Licensee's General Comments: none

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	2.0	0	0
Critical hours	2208.0	2079.9	1514.7	888.5	2208.0	1638.9	2183.0	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**2.2**	**2.0**	**1.7**

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	1.0	0	1.0	0	0	0	0
Critical hours	2208.0	2079.9	1514.7	888.5	2208.0	1638.9	2183.0	2184.0
Indicator value	**0**	**0.8**	**0.9**	**2.1**	**2.1**	**1.1**	**1.0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Scrams with complications	0	0	0	0	0	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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Safety System Functional Failures	0	2	0	0	0	1	1	0
Indicator value	**0**	**2**	**2**	**2**	**2**	**1**	**2**	**2**

Licensee Comments:

1Q/12: LER 2011-10

4Q/11: LER 2011-008

4Q/10: LER 2010-003, LER 2010-004, LER 2010-006. LER 2010-003 was previously submitted as a SSFF. A subsequent Secondary Containment Capability test -performed and evaluation confirmed that the Standby Gas Treatment system remained capable of performing its safety function in the plant configuration that existed on August 5, 2010, including consideration for penetrations that were or may have been open at the time. LER 2010-003, Supplement 1 was submitted to NRC on June 13, 2011. No color change affected.

4Q/10: LER 2010-003, LER 2010-004, LER 2010-006

3Q/10: LER 2010-002

3Q/10: LER 2010-002. This LER was previously submitted as a SSFF. A subsequent Secondary Containment Capability test performed and evaluation confirmed that the Standby Gas Treatment system remained capable of performing its safety function in the plant configuration that existed on June 3, 2010, including consideration for penetrations that were or may have been open at the time. LER 2010-002, Supplement 1 was submitted to NRC on June 13, 2011. No color change affected.

3Q/10: LER 2010-002. This LER was previously submitted as a SSFF. A subsequent Secondary Containment Capability test performed and evaluation confirmed that the Standby Gas Treatment system remained capable of performing its safety function in the plant configuration that existed on June 30, 2010, including consideration for penetrations that were or may have been open at the time. LER 2010-002, Supplement 1 was submitted to NRC on June 13, 2011. No color change affected.

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.18E-09	-1.19E-09	-1.21E-09
URI (ΔCDF)	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-1.16E-08	-2.26E-09	-1.93E-09	-1.59E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-3.40E-09**	**-3.10E-09**	**-2.80E-09**

Licensee Comments:

1Q/12: Emergency AC Power MSPI estimated run hours changed to align with new run hours definition per NRC Response to FAQ 11-06. Emergency AC Power MSPI estimated load run demands updated to correct latent error on A-EDG. No color change.

3Q/11: Updated MSPI Basis document on September 26, 2011 to incorporate changes from FAQ 11-07: Fuel Oil Transfer Pump Failures.

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)	-1.18E-08	-1.17E-08	-1.16E-08	-1.13E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08
URI (ΔCDF)	-2.78E-08	-2.78E-08	-2.78E-08	-2.78E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.00E-08**	**-4.00E-08**	**-3.90E-08**	**-3.90E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-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/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	2.34E-09	2.43E-09	-2.66E-10	5.44E-10	2.31E-09	2.73E-09	2.63E-10	-2.72E-10
URI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.11E-08	-2.11E-08	-2.11E-08	-2.11E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.00E-08**	**-2.00E-08**	**-2.20E-08**	**-2.10E-08**	**-1.90E-08**	**-1.80E-08**	**-2.10E-08**	**-2.10E-08**

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Removed non-MSPI credited functions of RHR from the simplified system drawing.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-3.06E-10	-1.61E-10	-1.89E-10	-1.56E-10	-2.21E-11	9.74E-11	-7.79E-11	-1.23E-10
URI (ΔCDF)	-3.65E-09	-3.65E-09	-3.65E-09	-3.65E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.00E-09**	**-3.80E-09**	**-3.80E-09**	**-3.80E-09**	**-3.60E-09**	**-3.50E-09**	**-3.70E-09**	**-3.70E-09**

Licensee Comments:

3Q/11: Hours previously reported for August and September 2011 were conservative, no MSPI color change.

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)	-1.18E-09	-9.73E-10	-1.18E-09	-1.19E-09	-1.74E-09	-2.10E-09	-2.16E-09	-1.75E-09
URI (ΔCDF)	2.39E-12	2.39E-12	-1.25E-11	-1.25E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-09**	**-9.70E-10**	**-1.20E-09**	**-1.20E-09**	**-1.80E-09**	**-2.10E-09**	**-2.20E-09**	**-1.80E-09**

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Updated RHRSW system boundaries to exclude SV-4397A, SV-4397B, PCV-3004, and PCV-3005. The listed valves had their internals removed.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.000509	0.000628	0.000544	0.000489	0.000620	0.000621	0.000662	0.000704	0.000590	N/A	N/A	0.000568
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.3**	**0.3**	**0.3**	**0.2**	**0.3**	**0.3**	**0.3**	**0.4**	**0.3**	**N/A**	**N/A**	**0.3**

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	0.000554	0.000535	0.000511	0.000472	0.000472	0.000482	0.000466	0.000420	0.000346	0.000437	0.000462	0.000331
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.3**	**0.3**	**0.3**	**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	**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	1.800	1.700	1.700	1.600	1.600	1.600	1.800	1.800	1.800	N/A	1.600	1.700
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.2**	**6.8**	**6.8**	**6.4**	**6.4**	**6.4**	**7.2**	**7.2**	**7.2**	**N/A**	**6.4**	**6.8**
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	1.700	1.800	1.800	1.700	1.700	1.700	1.600	1.700	1.700	1.700	1.800	1.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.8**	**7.2**	**7.2**	**6.8**	**6.8**	**6.8**	**6.4**	**6.8**	**6.8**	**6.8**	**7.2**	**7.2**

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	41.0	16.0	18.0	17.0	62.0	49.0	45.0	42.0
Total opportunities	43.0	17.0	19.0	17.0	67.0	52.0	47.0	42.0
Indicator value	**94.8%**	**94.6%**	**94.2%**	**94.2%**	**95.8%**	**95.4%**	**94.9%**	**95.4%**

Licensee Comments: none

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	138.0	136.0	145.0	146.0	143.0	148.0	146.0	144.0
Total Key personnel	138.0	136.0	145.0	146.0	143.0	148.0	146.0	144.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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	1375	1376	1373	1377	1373	1375	1374	1373
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	**98.7%**	**98.7%**	**98.9%**	**99.8%**	**99.8%**	**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	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**	**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/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.

Monticello

3Q/2012 Performance Indicators

Licensee's General Comments: none

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	2.0	0	0	1.0
Critical hours	2079.9	1514.7	888.5	2208.0	1638.9	2183.0	2184.0	2082.0
Indicator value	**0**	**0**	**0**	**0**	**2.2**	**2.0**	**1.7**	**2.6**

Licensee Comments: none

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	1.0	0	1.0	0	0	0	0	1.0
Critical hours	2079.9	1514.7	888.5	2208.0	1638.9	2183.0	2184.0	2082.0
Indicator value	**0.8**	**0.9**	**2.1**	**2.1**	**1.1**	**1.0**	**0**	**0.9**

Licensee Comments: none

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	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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Safety System Functional Failures	2	0	0	0	1	1	0	1
Indicator value	**2**	**2**	**2**	**2**	**1**	**2**	**2**	**3**

Licensee Comments:

3Q/12: LER 2012-001, 7/5/2012

1Q/12: LER 2011-10

4Q/11: LER 2011-008

4Q/10: LER 2010-003, LER 2010-004, LER 2010-006. LER 2010-003 was previously submitted as a SSFF. A subsequent Secondary Containment Capability test -performed and evaluation confirmed that the Standby Gas Treatment system remained capable of performing its safety function in the plant configuration that existed on August 5, 2010, including consideration for penetrations that were or may have been open at the time. LER 2010-003, Supplement 1 was submitted to NRC on June 13, 2011. No color change affected.

4Q/10: LER 2010-003, LER 2010-004, LER 2010-006

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 (ΔCDF)	-1.58E-09	-1.58E-09	-1.58E-09	-1.58E-09	-1.18E-09	-1.19E-09	-1.21E-09	-7.80E-10
URI (ΔCDF)	-1.17E-08	-1.17E-08	-1.17E-08	-1.16E-08	-2.26E-09	-1.93E-09	-1.59E-09	-1.24E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-3.40E-09**	**-3.10E-09**	**-2.80E-09**	**-2.00E-09**

Licensee Comments:

1Q/12: Emergency AC Power MSPI estimated run hours changed to align with new run hours definition per NRC Response to FAQ 11-06. Emergency AC Power MSPI estimated load run demands updated to correct latent error on A-EDG. No color change.

3Q/11: Updated MSPI Basis document on September 26, 2011 to incorporate changes from FAQ 11-07: Fuel Oil Transfer Pump Failures.

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 (ΔCDF)	-1.17E-08	-1.16E-08	-1.13E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08
URI (ΔCDF)	-2.78E-08	-2.78E-08	-2.78E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.00E-08**	**-3.90E-08**	**-3.90E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-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	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**
UAI (ΔCDF)	2.43E-09	-2.66E-10	5.44E-10	3.07E-10	6.81E-10	-1.75E-09	-2.21E-09	-1.44E-08
URI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.11E-08	-2.11E-08	-2.11E-08	-2.11E-08	-2.11E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.00E-08**	**-2.20E-08**	**-2.10E-08**	**-2.10E-08**	**-2.00E-08**	**-2.30E-08**	**-2.30E-08**	**-3.50E-08**

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Removed non-MSPI credited functions of RHR from the simplified system drawing. Corrected Aug 2011 data entry error for unplanned unavailable hours (planned unavailable hours were inadvertently entered into unplanned unavailable field when originally reported).

3Q/11: Updated MSPI Basis document on September 26, 2011. Removed non-MSPI credited functions of RHR from the simplified system drawing.

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 (ΔCDF)	-1.61E-10	-1.89E-10	-1.56E-10	-2.21E-11	9.74E-11	-7.79E-11	-1.23E-10	-2.23E-10
URI (ΔCDF)	-3.65E-09	-3.65E-09	-3.65E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.80E-09**	**-3.80E-09**	**-3.80E-09**	**-3.60E-09**	**-3.50E-09**	**-3.70E-09**	**-3.70E-09**	**-3.80E-09**

Licensee Comments:

3Q/11: Hours previously reported for August and September 2011 were conservative, no MSPI color change.

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 (ΔCDF)	-9.73E-10	-1.18E-09	-1.19E-09	-1.74E-09	-2.10E-09	-2.16E-09	-1.75E-09	-1.66E-09
URI (ΔCDF)	2.39E-12	-1.25E-11	-1.25E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.70E-10**	**-1.20E-09**	**-1.20E-09**	**-1.80E-09**	**-2.10E-09**	**-2.20E-09**	**-1.80E-09**	**-1.70E-09**

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Updated RHRSW system boundaries to exclude SV-4397A, SV-4397B, PCV-3004, and PCV-3005. The listed valves had their internals removed.

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	0.000489	0.000620	0.000621	0.000662	0.000704	0.000590	N/A	N/A	0.000568	0.000554	0.000535	0.000511
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.3**	**0.3**	**0.3**	**0.4**	**0.3**	**N/A**	**N/A**	**0.3**	**0.3**	**0.3**	**0.3**

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	0.000472	0.000472	0.000482	0.000466	0.000420	0.000346	0.000437	0.000462	0.000331	0.000344	0.000399	0.000420
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**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

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	1.600	1.600	1.600	1.800	1.800	1.800	N/A	1.600	1.700	1.700	1.800	1.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.4**	**6.4**	**6.4**	**7.2**	**7.2**	**7.2**	**N/A**	**6.4**	**6.8**	**6.8**	**7.2**	**7.2**
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	1.700	1.700	1.700	1.600	1.700	1.700	1.700	1.800	1.800	1.900	2.000	1.820
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.8**	**6.8**	**6.8**	**6.4**	**6.8**	**6.8**	**6.8**	**7.2**	**7.2**	**7.6**	**8.0**	**7.3**

Licensee Comments: none

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	16.0	18.0	17.0	62.0	49.0	45.0	42.0	34.0
Total opportunities	17.0	19.0	17.0	67.0	52.0	47.0	42.0	36.0
Indicator value	**94.6%**	**94.2%**	**94.2%**	**95.8%**	**95.4%**	**94.9%**	**95.4%**	**95.3%**

Licensee Comments: none

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	136.0	145.0	146.0	143.0	148.0	146.0	144.0	151.0
Total Key personnel	136.0	145.0	146.0	143.0	148.0	146.0	144.0	154.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.1%**

Licensee Comments: none

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	1376	1373	1377	1373	1375	1374	1373	1374
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	**98.7%**	**98.9%**	**99.8%**	**99.8%**	**99.7%**	**99.8%**	**99.7%**	**99.7%**

Licensee Comments: none

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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**	**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: October 24, 2012

Monticello

4Q/2012 Performance Indicators

Licensee's General Comments: none

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	2.0	0	0	1.0	0
Critical hours	1514.7	888.5	2208.0	1638.9	2183.0	2184.0	2082.0	2209.0
Indicator value	**0**	**0**	**0**	**2.2**	**2.0**	**1.7**	**2.6**	**0.8**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned power changes	0	1.0	0	0	0	0	1.0	0
Critical hours	1514.7	888.5	2208.0	1638.9	2183.0	2184.0	2082.0	2209.0
Indicator value	**0.9**	**2.1**	**2.1**	**1.1**	**1.0**	**0**	**0.9**	**0.8**

Licensee Comments: none

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	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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Safety System Functional Failures	0	0	0	1	1	0	1	1
Indicator value	**2**	**2**	**2**	**1**	**2**	**2**	**3**	**3**

Licensee Comments:

4Q/12: LER 2012-004

3Q/12: LER 2012-001, 7/5/2012

1Q/12: LER 2011-10

4Q/11: LER 2011-008

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 (ΔCDF)	-1.58E-09	-1.58E-09	-1.58E-09	-1.18E-09	-1.19E-09	-1.21E-09	-7.80E-10	-8.43E-10
URI (ΔCDF)	-1.17E-08	-1.17E-08	-1.16E-08	-2.26E-09	-1.93E-09	-1.59E-09	-1.24E-09	-8.71E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-3.40E-09**	**-3.10E-09**	**-2.80E-09**	**-2.00E-09**	**-1.70E-09**

Licensee Comments:

1Q/12: Emergency AC Power MSPI estimated run hours changed to align with new run hours definition per NRC Response to FAQ 11-06. Emergency AC Power MSPI estimated load run demands updated to correct latent error on A-EDG. No color change.

3Q/11: Updated MSPI Basis document on September 26, 2011 to incorporate changes from FAQ 11-07: Fuel Oil Transfer Pump Failures.

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 (ΔCDF)	-1.16E-08	-1.13E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08
URI (ΔCDF)	-2.78E-08	-2.78E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.90E-08**	**-3.90E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-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/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (ΔCDF)	-2.66E-10	5.44E-10	3.07E-10	6.81E-10	-1.75E-09	-2.21E-09	-1.44E-08	-1.15E-08
URI (ΔCDF)	-2.20E-08	-2.20E-08	-2.11E-08	-2.11E-08	-2.11E-08	-2.11E-08	-2.11E-08	3.18E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.20E-08**	**-2.10E-08**	**-2.10E-08**	**-2.00E-08**	**-2.30E-08**	**-2.30E-08**	**-3.50E-08**	**-8.30E-09**

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Removed non-MSPI credited functions of RHR from the simplified system drawing. Corrected Aug 2011 data entry error for unplanned unavailable hours (planned unavailable hours were inadvertently entered into unplanned unavailable field when originally reported).

3Q/11: Updated MSPI Basis document on September 26, 2011. Removed non-MSPI credited functions of RHR from the simplified system drawing.

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 (ΔCDF)	-1.89E-10	-1.56E-10	-2.21E-11	9.74E-11	-7.79E-11	-1.23E-10	-2.23E-10	-2.73E-10
URI (ΔCDF)	-3.65E-09	-3.65E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.80E-09**	**-3.80E-09**	**-3.60E-09**	**-3.50E-09**	**-3.70E-09**	**-3.70E-09**	**-3.80E-09**	**-3.90E-09**

Licensee Comments:

3Q/11: Hours previously reported for August and September 2011 were conservative, no MSPI color change.

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 (ΔCDF)	-1.18E-09	-1.19E-09	-1.74E-09	-2.10E-09	-2.16E-09	-1.75E-09	-1.66E-09	-1.57E-09
URI (ΔCDF)	-1.25E-11	-1.25E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-09**	**-1.20E-09**	**-1.80E-09**	**-2.10E-09**	**-2.20E-09**	**-1.80E-09**	**-1.70E-09**	**-1.60E-09**

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Updated RHRSW system boundaries to exclude SV-4397A, SV-4397B, PCV-3004, and PCV-3005. The listed valves had their internals removed.

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	0.000662	0.000704	0.000590	N/A	N/A	0.000568	0.000554	0.000535	0.000511	0.000472	0.000472	0.000482
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.3**	**0.4**	**0.3**	**N/A**	**N/A**	**0.3**	**0.3**	**0.3**	**0.3**	**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	0.000466	0.000420	0.000346	0.000437	0.000462	0.000331	0.000344	0.000399	0.000420	0.000354	0.000316	0.000273
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**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	**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	1.800	1.800	1.800	N/A	1.600	1.700	1.700	1.800	1.800	1.700	1.700	1.700
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.2**	**7.2**	**7.2**	**N/A**	**6.4**	**6.8**	**6.8**	**7.2**	**7.2**	**6.8**	**6.8**	**6.8**
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	1.600	1.700	1.700	1.700	1.800	1.800	1.900	2.000	1.820	1.750	1.840	1.840
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.4**	**6.8**	**6.8**	**6.8**	**7.2**	**7.2**	**7.6**	**8.0**	**7.3**	**7.0**	**7.4**	**7.4**

Licensee Comments: none

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	18.0	17.0	62.0	49.0	45.0	42.0	40.0	46.0
Total opportunities	19.0	17.0	67.0	52.0	47.0	42.0	42.0	46.0
Indicator value	**94.2%**	**94.2%**	**95.8%**	**95.4%**	**94.9%**	**95.4%**	**95.4%**	**96.1%**

Licensee Comments:

3Q/12: Sept 2012 ammended to include 6 successes for 6 opportunities due to licensed operator requal exam security that was unavaillable for 3rd quarter submittal. No color change.

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	145.0	146.0	143.0	148.0	146.0	144.0	151.0	163.0
Total Key personnel	145.0	146.0	143.0	148.0	146.0	144.0	154.0	166.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.1%**	**98.2%**

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	1373	1377	1373	1375	1374	1373	1374	1362
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	**98.9%**	**99.8%**	**99.8%**	**99.7%**	**99.8%**	**99.7%**	**99.7%**	**99.5%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**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/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**	**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.

Last Modified: January 23, 2013

Monticello

1Q/2013 Performance Indicators

Licensee's General Comments: none

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	2.0	0	0	1.0	0	0
Critical hours	888.5	2208.0	1638.9	2183.0	2184.0	2082.0	2209.0	1442.6
Indicator value	**0**	**0**	**2.2**	**2.0**	**1.7**	**2.6**	**0.8**	**0.9**

Licensee Comments: none

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	0	0	0	1.0	0	0
Critical hours	888.5	2208.0	1638.9	2183.0	2184.0	2082.0	2209.0	1442.6
Indicator value	**2.1**	**2.1**	**1.1**	**1.0**	**0**	**0.9**	**0.8**	**0.9**

Licensee Comments: none

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	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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Safety System Functional Failures	0	0	1	1	0	1	1	0
Indicator value	**2**	**2**	**1**	**2**	**2**	**3**	**3**	**2**

Licensee Comments:

4Q/12: LER 2012-004

3Q/12: LER 2012-001, 7/5/2012

1Q/12: LER 2011-10

4Q/11: LER 2011-008

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 (ΔCDF)	-1.58E-09	-1.58E-09	-1.18E-09	-1.19E-09	-1.21E-09	-7.80E-10	-8.43E-10	-7.23E-10
URI (ΔCDF)	-1.17E-08	-1.16E-08	-2.26E-09	-1.93E-09	-1.59E-09	-1.24E-09	-8.71E-10	-4.91E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.30E-08**	**-3.40E-09**	**-3.10E-09**	**-2.80E-09**	**-2.00E-09**	**-1.70E-09**	**-1.20E-09**

Licensee Comments:

1Q/12: Emergency AC Power MSPI estimated run hours changed to align with new run hours definition per NRC Response to FAQ 11-06. Emergency AC Power MSPI estimated load run demands updated to correct latent error on A-EDG. No color change.

3Q/11: Updated MSPI Basis document on September 26, 2011 to incorporate changes from FAQ 11-07: Fuel Oil Transfer Pump Failures.

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 (ΔCDF)	-1.13E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08
URI (ΔCDF)	-2.78E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.90E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-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	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**
UAI (ΔCDF)	5.44E-10	3.07E-10	6.81E-10	-1.75E-09	-2.21E-09	-1.44E-08	-1.15E-08	-1.14E-08
URI (ΔCDF)	-2.20E-08	-2.11E-08	-2.11E-08	-2.11E-08	-2.11E-08	-2.11E-08	3.18E-09	3.18E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-08**	**-2.10E-08**	**-2.00E-08**	**-2.30E-08**	**-2.30E-08**	**-3.50E-08**	**-8.30E-09**	**-8.20E-09**

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Removed non-MSPI credited functions of RHR from the simplified system drawing. Corrected Aug 2011 data entry error for unplanned unavailable hours (planned unavailable hours were inadvertently entered into unplanned unavailable field when originally reported).

3Q/11: Updated MSPI Basis document on September 26, 2011. Removed non-MSPI credited functions of RHR from the simplified system drawing.

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 (ΔCDF)	-1.56E-10	-2.21E-11	9.74E-11	-7.79E-11	-1.23E-10	-2.23E-10	-2.73E-10	-3.05E-11
URI (ΔCDF)	-3.65E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.80E-09**	**-3.60E-09**	**-3.50E-09**	**-3.70E-09**	**-3.70E-09**	**-3.80E-09**	**-3.90E-09**	**-3.60E-09**

Licensee Comments:

3Q/11: Hours previously reported for August and September 2011 were conservative, no MSPI color change.

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 (ΔCDF)	-1.19E-09	-1.74E-09	-2.10E-09	-2.16E-09	-1.75E-09	-1.66E-09	-1.57E-09	-1.59E-09
URI (ΔCDF)	-1.25E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-09**	**-1.80E-09**	**-2.10E-09**	**-2.20E-09**	**-1.80E-09**	**-1.70E-09**	**-1.60E-09**	**-1.60E-09**

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Updated RHRSW system boundaries to exclude SV-4397A, SV-4397B, PCV-3004, and PCV-3005. The listed valves had their internals removed.

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	N/A	N/A	0.000568	0.000554	0.000535	0.000511	0.000472	0.000472	0.000482	0.000466	0.000420	0.000346
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**N/A**	**N/A**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

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	0.000437	0.000462	0.000331	0.000344	0.000399	0.000420	0.000354	0.000316	0.000273	0.000343	0.000302	N/A
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.2**	**0.2**	**N/A**

Licensee Comments: none

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	N/A	1.600	1.700	1.700	1.800	1.800	1.700	1.700	1.700	1.600	1.700	1.700
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**N/A**	**6.4**	**6.8**	**6.8**	**7.2**	**7.2**	**6.8**	**6.8**	**6.8**	**6.4**	**6.8**	**6.8**
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	1.700	1.800	1.800	1.900	2.000	1.820	1.750	1.840	1.840	1.900	1.840	1.760
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.8**	**7.2**	**7.2**	**7.6**	**8.0**	**7.3**	**7.0**	**7.4**	**7.4**	**7.6**	**7.4**	**7.0**

Licensee Comments: none

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	17.0	62.0	49.0	45.0	42.0	40.0	46.0	18.0
Total opportunities	17.0	67.0	52.0	47.0	42.0	42.0	46.0	19.0
Indicator value	**94.2%**	**95.8%**	**95.4%**	**94.9%**	**95.4%**	**95.4%**	**96.1%**	**96.1%**

Licensee Comments:

3Q/12: Sept 2012 ammended to include 6 successes for 6 opportunities due to licensed operator requal exam security that was unavaillable for 3rd quarter submittal. No color change.

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	146.0	143.0	148.0	146.0	144.0	151.0	163.0	160.0
Total Key personnel	146.0	143.0	148.0	146.0	144.0	154.0	166.0	162.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.1%**	**98.2%**	**98.8%**

Licensee Comments: none

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	1377	1373	1375	1374	1373	1374	1362	1368
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	**99.8%**	**99.8%**	**99.7%**	**99.8%**	**99.7%**	**99.7%**	**99.5%**	**99.4%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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**	**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, 2013

Monticello

2Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned scrams	0	2.0	0	0	1.0	0	0	0
Critical hours	2208.0	1638.9	2183.0	2184.0	2082.0	2209.0	1442.6	0
Indicator value	**0**	**2.2**	**2.0**	**1.7**	**2.6**	**0.8**	**0.9**	**1.2**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2208.0	1638.9	2183.0	2184.0	2082.0	2209.0	1442.6	0
Indicator value	**2.1**	**1.1**	**1.0**	**0**	**0.9**	**0.8**	**0.9**	**1.2**

Licensee Comments: none

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	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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Safety System Functional Failures	0	1	1	0	1	1	0	0
Indicator value	**2**	**1**	**2**	**2**	**3**	**3**	**2**	**2**

Licensee Comments:

4Q/12: LER 2012-004

3Q/12: LER 2012-001, 7/5/2012

1Q/12: LER 2011-10

4Q/11: LER 2011-008

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 (ΔCDF)	-1.58E-09	-1.18E-09	-1.19E-09	-1.21E-09	-7.80E-10	-8.43E-10	-7.23E-10	-3.42E-10
URI (ΔCDF)	-1.16E-08	-2.26E-09	-1.93E-09	-1.59E-09	-1.24E-09	-8.71E-10	-4.91E-10	-2.77E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-3.40E-09**	**-3.10E-09**	**-2.80E-09**	**-2.00E-09**	**-1.70E-09**	**-1.20E-09**	**-6.20E-10**

Licensee Comments:

1Q/12: Emergency AC Power MSPI estimated run hours changed to align with new run hours definition per NRC Response to FAQ 11-06. Emergency AC Power MSPI estimated load run demands updated to correct latent error on A-EDG. No color change.

3Q/11: Updated MSPI Basis document on September 26, 2011 to incorporate changes from FAQ 11-07: Fuel Oil Transfer Pump Failures.

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 (ΔCDF)	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08
URI (ΔCDF)	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-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/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**
UAI (ΔCDF)	3.07E-10	6.81E-10	-1.75E-09	-2.21E-09	-1.44E-08	-1.15E-08	-1.14E-08	-1.11E-08
URI (ΔCDF)	-2.11E-08	-2.11E-08	-2.11E-08	-2.11E-08	-2.11E-08	3.18E-09	3.18E-09	3.18E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-08**	**-2.00E-08**	**-2.30E-08**	**-2.30E-08**	**-3.50E-08**	**-8.30E-09**	**-8.20E-09**	**-7.90E-09**

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Removed non-MSPI credited functions of RHR from the simplified system drawing. Corrected Aug 2011 data entry error for unplanned unavailable hours (planned unavailable hours were inadvertently entered into unplanned unavailable field when originally reported).

3Q/11: Updated MSPI Basis document on September 26, 2011. Removed non-MSPI credited functions of RHR from the simplified system drawing.

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 (ΔCDF)	-2.21E-11	9.74E-11	-7.79E-11	-1.23E-10	-2.23E-10	-2.73E-10	-3.05E-11	8.66E-11
URI (ΔCDF)	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09	-3.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.60E-09**	**-3.50E-09**	**-3.70E-09**	**-3.70E-09**	**-3.80E-09**	**-3.90E-09**	**-3.60E-09**	**-3.50E-09**

Licensee Comments:

3Q/11: Hours previously reported for August and September 2011 were conservative, no MSPI color change.

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 (ΔCDF)	-1.74E-09	-2.10E-09	-2.16E-09	-1.75E-09	-1.66E-09	-1.57E-09	-1.59E-09	-1.37E-09
URI (ΔCDF)	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11	-1.24E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.80E-09**	**-2.10E-09**	**-2.20E-09**	**-1.80E-09**	**-1.70E-09**	**-1.60E-09**	**-1.60E-09**	**-1.40E-09**

Licensee Comments:

3Q/11: Updated MSPI Basis document on September 26, 2011. Updated RHRSW system boundaries to exclude SV-4397A, SV-4397B, PCV-3004, and PCV-3005. The listed valves had their internals removed.

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	0.000554	0.000535	0.000511	0.000472	0.000472	0.000482	0.000466	0.000420	0.000346	0.000437	0.000462	0.000331
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.3**	**0.3**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

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	0.000344	0.000399	0.000420	0.000354	0.000316	0.000273	0.000343	0.000302	N/A	N/A	N/A	N/A
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.2**	**0.2**	**N/A**	**N/A**	**N/A**	**N/A**

Licensee Comments:

6/13: Plant Conditions do not require RCS activity to be calculated for April, May and June 2013.

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	1.700	1.800	1.800	1.700	1.700	1.700	1.600	1.700	1.700	1.700	1.800	1.800
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.8**	**7.2**	**7.2**	**6.8**	**6.8**	**6.8**	**6.4**	**6.8**	**6.8**	**6.8**	**7.2**	**7.2**

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	1.900	2.000	1.820	1.750	1.840	1.840	1.900	1.840	1.760	N/A	N/A	N/A
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**8.0**	**7.3**	**7.0**	**7.4**	**7.4**	**7.6**	**7.4**	**7.0**	**N/A**	**N/A**	**N/A**

Licensee Comments:

6/13: Plant Conditions do not require RCS activity to be calculated for April, May and June 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	62.0	49.0	45.0	42.0	40.0	46.0	18.0	7.0
Total opportunities	67.0	52.0	47.0	42.0	42.0	46.0	19.0	7.0
Indicator value	**95.8%**	**95.4%**	**94.9%**	**95.4%**	**95.4%**	**96.1%**	**96.1%**	**96.0%**

Licensee Comments:

3Q/12: Sept 2012 ammended to include 6 successes for 6 opportunities due to licensed operator requal exam security that was unavaillable for 3rd quarter submittal. No color change.

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	143.0	148.0	146.0	144.0	151.0	163.0	160.0	173.0
Total Key personnel	143.0	148.0	146.0	144.0	154.0	166.0	162.0	173.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.1%**	**98.2%**	**98.8%**	**100.0%**

Licensee Comments: none

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	1373	1375	1374	1373	1374	1362	1368	1377
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	**99.8%**	**99.7%**	**99.8%**	**99.7%**	**99.7%**	**99.5%**	**99.4%**	**99.4%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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**	**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: August 19, 2013

Monticello

3Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: During the 3rd Qtr 2013, the component group for the EDG-ESW pumps (P-111A and P-111B) were corrected to be motor-driven pump running or alternating to motor-driven pump standby to reflect the actual operation of the EAC cooling water pumps. This change did not result in any color change.

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	2.0	0	0	1.0	0	0	0	0
Critical hours	1638.9	2183.0	2184.0	2082.0	2209.0	1442.6	0	1826.8
Indicator value	**2.2**	**2.0**	**1.7**	**2.6**	**0.8**	**0.9**	**1.2**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	1638.9	2183.0	2184.0	2082.0	2209.0	1442.6	0	1826.8
Indicator value	**1.1**	**1.0**	**0**	**0.9**	**0.8**	**0.9**	**1.2**	**0**

Licensee Comments: none

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	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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Safety System Functional Failures	1	1	0	1	1	0	0	2
Indicator value	**1**	**2**	**2**	**3**	**3**	**2**	**2**	**3**

Licensee Comments:

3Q/13: LER 2013-003-01, LER 2013-004

4Q/12: LER 2012-004

3Q/12: LER 2012-001, 7/5/2012

1Q/12: LER 2011-10

4Q/11: LER 2011-008

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 (ΔCDF)	-1.18E-09	-1.19E-09	-1.21E-09	-7.80E-10	-8.43E-10	-7.23E-10	-3.42E-10	-6.03E-10
URI (ΔCDF)	-1.77E-09	-1.44E-09	-1.10E-09	-7.43E-10	-3.77E-10	2.50E-12	1.94E-10	6.02E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.00E-09**	**-2.60E-09**	**-2.30E-09**	**-1.50E-09**	**-1.20E-09**	**-7.20E-10**	**-1.50E-10**	**-7.70E-13**

Licensee Comments:

1Q/12: Emergency AC Power MSPI estimated run hours changed to align with new run hours definition per NRC Response to FAQ 11-06. Emergency AC Power MSPI estimated load run demands updated to correct latent error on A-EDG. No color change.

1Q/12: Emergency AC Power MSPI estimated run hours changed to align with new run hours definition per NRC Response to FAQ 11-06. Emergency AC Power MSPI estimated load run demands updated to correct latent error on A-EDG. No color change.

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 (ΔCDF)	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08
URI (ΔCDF)	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-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	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**
UAI (ΔCDF)	6.81E-10	-1.75E-09	-2.21E-09	-1.44E-08	-1.15E-08	-1.14E-08	-1.11E-08	-1.10E-08
URI (ΔCDF)	-2.11E-08	-2.11E-08	-2.11E-08	-2.11E-08	3.18E-09	3.18E-09	3.18E-09	3.18E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.00E-08**	**-2.30E-08**	**-2.30E-08**	**-3.50E-08**	**-8.30E-09**	**-8.20E-09**	**-7.90E-09**	**-7.80E-09**

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 (ΔCDF)	9.74E-11	-7.79E-11	-1.23E-10	-2.23E-10	-2.73E-10	-3.05E-11	8.66E-11	1.95E-10
URI (ΔCDF)	9.68E-09	9.68E-09	9.68E-09	9.68E-09	9.68E-09	9.68E-09	9.68E-09	1.67E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.80E-09**	**9.60E-09**	**9.60E-09**	**9.50E-09**	**9.40E-09**	**9.60E-09**	**9.80E-09**	**1.70E-08**

Licensee Comments:

4Q/11: An historical review was performed of past failures of RHR. 10/22/2011 failure was reclassified as an MSPI failure. This change did not result in a color change.

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 (ΔCDF)	-2.10E-09	-2.16E-09	-1.75E-09	-1.66E-09	-1.57E-09	-1.59E-09	-1.37E-09	-1.21E-09
URI (ΔCDF)	-1.24E-11	2.55E-12	2.55E-12	2.55E-12	2.55E-12	2.55E-12	2.55E-12	2.55E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-09**	**-2.20E-09**	**-1.80E-09**	**-1.70E-09**	**-1.60E-09**	**-1.60E-09**	**-1.40E-09**	**-1.20E-09**

Licensee Comments:

1Q/12: An historical review was performed of past failures of RHR. 3/7/2012 failure was reclassified as an MSPI failure. This change did not result in a color change.

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	0.000472	0.000472	0.000482	0.000466	0.000420	0.000346	0.000437	0.000462	0.000331	0.000344	0.000399	0.000420
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

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	0.000354	0.000316	0.000273	0.000343	0.000302	N/A	N/A	N/A	N/A	N/A	0.000232	0.000248
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.2**	**0.1**	**0.2**	**0.2**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**0.1**	**0.1**

Licensee Comments:

6/13: Plant Conditions do not require RCS activity to be calculated for April, May and June 2013.

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	1.700	1.700	1.700	1.600	1.700	1.700	1.700	1.800	1.800	1.900	2.000	1.820
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.8**	**6.8**	**6.8**	**6.4**	**6.8**	**6.8**	**6.8**	**7.2**	**7.2**	**7.6**	**8.0**	**7.3**

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	1.750	1.840	1.840	1.900	1.840	1.760	N/A	N/A	N/A	1.800	1.690	1.920
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.0**	**7.4**	**7.4**	**7.6**	**7.4**	**7.0**	**N/A**	**N/A**	**N/A**	**7.2**	**6.8**	**7.7**

Licensee Comments:

6/13: Plant Conditions do not require RCS activity to be calculated for April, May and June 2013.

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	49.0	45.0	42.0	40.0	46.0	16.0	7.0	37.0
Total opportunities	52.0	47.0	42.0	42.0	46.0	19.0	7.0	39.0
Indicator value	**95.4%**	**94.9%**	**95.4%**	**95.4%**	**96.1%**	**95.5%**	**95.3%**	**95.9%**

Licensee Comments:

3Q/12: Sept 2012 ammended to include 6 successes for 6 opportunities due to licensed operator requal exam security that was unavaillable for 3rd quarter submittal. No color change.

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	148.0	146.0	144.0	151.0	163.0	160.0	173.0	165.0
Total Key personnel	148.0	146.0	144.0	154.0	166.0	162.0	173.0	165.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**98.1%**	**98.2%**	**98.8%**	**100.0%**	**100.0%**

Licensee Comments: none

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	1375	1374	1373	1374	1362	1368	1377	1378
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	**99.7%**	**99.8%**	**99.7%**	**99.7%**	**99.5%**	**99.4%**	**99.4%**	**99.5%**

Licensee Comments: none

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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**	**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: October 22, 2013

Monticello

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2183.0	2184.0	2082.0	2209.0	1442.6	0	1826.8	2209.0
Indicator value	**2.0**	**1.7**	**2.6**	**0.8**	**0.9**	**1.2**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	2183.0	2184.0	2082.0	2209.0	1442.6	0	1826.8	2209.0
Indicator value	**1.0**	**0**	**0.9**	**0.8**	**0.9**	**1.2**	**0**	**0**

Licensee Comments: none

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	**1.0**	**1.0**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Safety System Functional Failures	1	0	1	1	0	0	2	2
Indicator value	**2**	**2**	**3**	**3**	**2**	**2**	**3**	**4**

Licensee Comments:

4Q/13: LER 2013-008, LER 2013-006

3Q/13: LER 2013-003-01, LER 2013-004

4Q/12: LER 2012-004

3Q/12: LER 2012-001, 7/5/2012

1Q/12: LER 2011-10

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 (ΔCDF)	-1.19E-09	-1.21E-09	-7.80E-10	-8.43E-10	-7.23E-10	-3.42E-10	-6.03E-10	-1.15E-09
URI (ΔCDF)	-1.44E-09	-1.10E-09	-7.43E-10	-3.77E-10	2.50E-12	1.94E-10	6.02E-10	1.03E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.60E-09**	**-2.30E-09**	**-1.50E-09**	**-1.20E-09**	**-7.20E-10**	**-1.50E-10**	**-7.70E-13**	**-1.20E-10**

Licensee Comments:

1Q/12: Emergency AC Power MSPI estimated run hours changed to align with new run hours definition per NRC Response to FAQ 11-06. Emergency AC Power MSPI estimated load run demands updated to correct latent error on A-EDG. No color change.

1Q/12: Emergency AC Power MSPI estimated run hours changed to align with new run hours definition per NRC Response to FAQ 11-06. Emergency AC Power MSPI estimated load run demands updated to correct latent error on A-EDG. No color change.

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 (ΔCDF)	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08
URI (ΔCDF)	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-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/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	-1.75E-09	-2.21E-09	-1.44E-08	-1.15E-08	-1.14E-08	-1.11E-08	-1.10E-08	-1.10E-08
URI (ΔCDF)	-2.11E-08	-2.11E-08	-2.11E-08	3.18E-09	3.18E-09	3.18E-09	3.18E-09	3.18E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-08**	**-2.30E-08**	**-3.50E-08**	**-8.30E-09**	**-8.20E-09**	**-7.90E-09**	**-7.80E-09**	**-7.80E-09**

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 (ΔCDF)	-7.79E-11	-1.23E-10	-2.23E-10	-2.73E-10	-3.05E-11	8.66E-11	1.95E-10	-3.83E-10
URI (ΔCDF)	9.68E-09	9.68E-09	9.68E-09	9.68E-09	9.68E-09	9.68E-09	1.67E-08	1.67E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.60E-09**	**9.60E-09**	**9.50E-09**	**9.40E-09**	**9.60E-09**	**9.80E-09**	**1.70E-08**	**1.60E-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	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	-2.16E-09	-1.75E-09	-1.66E-09	-1.57E-09	-1.59E-09	-1.37E-09	-1.21E-09	-1.64E-09
URI (ΔCDF)	2.55E-12	2.55E-12	2.55E-12	2.55E-12	2.55E-12	2.55E-12	2.55E-12	2.55E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.20E-09**	**-1.80E-09**	**-1.70E-09**	**-1.60E-09**	**-1.60E-09**	**-1.40E-09**	**-1.20E-09**	**-1.60E-09**

Licensee Comments:

1Q/12: An historical review was performed of past failures of RHR. 3/7/2012 failure was reclassified as an MSPI failure. This change did not result in a color change.

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	0.000466	0.000420	0.000346	0.000437	0.000462	0.000331	0.000344	0.000399	0.000420	0.000354	0.000316	0.000273
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**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	**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	0.000343	0.000302	N/A	N/A	N/A	N/A	N/A	0.000232	0.000248	0.000339	0.000174	0.000166
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.2**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**

Licensee Comments:

6/13: Plant Conditions do not require RCS activity to be calculated for April, May and June 2013.

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	1.600	1.700	1.700	1.700	1.800	1.800	1.900	2.000	1.820	1.750	1.840	1.840
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.4**	**6.8**	**6.8**	**6.8**	**7.2**	**7.2**	**7.6**	**8.0**	**7.3**	**7.0**	**7.4**	**7.4**

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	1.900	1.840	1.760	N/A	N/A	N/A	1.800	1.690	1.920	1.740	1.760	1.790
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**7.4**	**7.0**	**N/A**	**N/A**	**N/A**	**7.2**	**6.8**	**7.7**	**7.0**	**7.0**	**7.2**

Licensee Comments:

6/13: Plant Conditions do not require RCS activity to be calculated for April, May and June 2013.

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	45.0	42.0	40.0	46.0	16.0	7.0	37.0	77.0
Total opportunities	47.0	42.0	42.0	46.0	19.0	7.0	39.0	79.0
Indicator value	**94.9%**	**95.4%**	**95.4%**	**96.1%**	**95.5%**	**95.3%**	**95.9%**	**96.6%**

Licensee Comments:

3Q/12: Sept 2012 ammended to include 6 successes for 6 opportunities due to licensed operator requal exam security that was unavaillable for 3rd quarter submittal. No color change.

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	146.0	144.0	151.0	163.0	160.0	173.0	165.0	164.0
Total Key personnel	146.0	144.0	154.0	166.0	162.0	173.0	165.0	164.0
Indicator value	**100.0%**	**100.0%**	**98.1%**	**98.2%**	**98.8%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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	1374	1373	1374	1362	1368	1377	1378	1377
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	**99.8%**	**99.7%**	**99.7%**	**99.5%**	**99.4%**	**99.4%**	**99.5%**	**99.8%**

Licensee Comments: none

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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**	**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: January 22, 2014

Monticello

1Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2184.0	2082.0	2209.0	1442.6	0	1826.8	2209.0	1722.5
Indicator value	**1.7**	**2.6**	**0.8**	**0.9**	**1.2**	**0**	**0**	**0**

Licensee Comments: none

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	1.0	0	0	0	0	0	2.0
Critical hours	2184.0	2082.0	2209.0	1442.6	0	1826.8	2209.0	1722.5
Indicator value	**0**	**0.9**	**0.8**	**0.9**	**1.2**	**0**	**0**	**2.4**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Safety System Functional Failures	0	1	1	0	0	2	1	0
Indicator value	**2**	**3**	**3**	**2**	**2**	**3**	**3**	**3**

Licensee Comments:

1Q/14: The indicator value for the 4Q2013 was revised to remove one SSFF (LER 2013-008) based on engineering analysis. The change did not affect the color of the indicator.

4Q/13: LER 2013-008, LER 2013-006

4Q/13: LER 2013-008, LER 2013-006 The indicator value for the 4Q2013 was revised to remove one SSFF (LER 2013-008) based on engineering analysis. The change did not affect the color of the indicator.

3Q/13: LER 2013-003-01, LER 2013-004

4Q/12: LER 2012-004

3Q/12: LER 2012-001, 7/5/2012

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 (ΔCDF)	-1.21E-09	-7.80E-10	-8.43E-10	-7.23E-10	-3.42E-10	-6.03E-10	-1.15E-09	-1.79E-08
URI (ΔCDF)	-1.10E-09	-7.43E-10	-3.77E-10	2.50E-12	1.94E-10	6.02E-10	1.03E-09	7.65E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-09**	**-1.50E-09**	**-1.20E-09**	**-7.20E-10**	**-1.50E-10**	**-7.70E-13**	**-1.20E-10**	**-1.70E-08**

Licensee Comments:

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**
UAI (ΔCDF)	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-4.33E-08
URI (ΔCDF)	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-7.21E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-1.20E-07**

Licensee Comments:

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**
UAI (ΔCDF)	-2.21E-09	-1.44E-08	-1.15E-08	-1.14E-08	-1.11E-08	-1.10E-08	-1.10E-08	-2.67E-08
URI (ΔCDF)	-2.11E-08	-2.11E-08	3.18E-09	3.18E-09	3.18E-09	3.18E-09	3.18E-09	4.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-08**	**-3.50E-08**	**-8.30E-09**	**-8.20E-09**	**-7.90E-09**	**-7.80E-09**	**-7.80E-09**	**1.60E-08**

Licensee Comments:

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**
UAI (ΔCDF)	-1.23E-10	-2.23E-10	-2.73E-10	-3.05E-11	8.66E-11	1.95E-10	-3.83E-10	-3.62E-10
URI (ΔCDF)	9.68E-09	9.68E-09	9.68E-09	9.68E-09	9.68E-09	1.67E-08	1.67E-08	6.06E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.60E-09**	**9.50E-09**	**9.40E-09**	**9.60E-09**	**9.80E-09**	**1.70E-08**	**1.60E-08**	**5.70E-09**

Licensee Comments:

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

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 (ΔCDF)	-1.75E-09	-1.66E-09	-1.57E-09	-1.59E-09	-1.37E-09	-1.21E-09	-1.64E-09	-1.68E-09
URI (ΔCDF)	2.55E-12	2.55E-12	2.55E-12	2.55E-12	2.55E-12	2.55E-12	1.75E-11	5.04E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.80E-09**	**-1.70E-09**	**-1.60E-09**	**-1.60E-09**	**-1.40E-09**	**-1.20E-09**	**-1.60E-09**	**-1.60E-09**

Licensee Comments:

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

4Q/13: Final engineering evaluation of Dec 2013 determined MSPI failure in cooling water system. Change did not result in a color change of the indicator.

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	0.000437	0.000462	0.000331	0.000344	0.000399	0.000420	0.000354	0.000316	0.000273	0.000343	0.000302	N/A
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.2**	**0.2**	**N/A**

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	N/A	N/A	N/A	N/A	0.000232	0.000248	0.000339	0.000174	0.000166	0.000129	0.000252	0.000190
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**N/A**	**N/A**	**N/A**	**N/A**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments:

9/13: Plant conditions were not met to calculate RCS activity for July 2013.

6/13: Plant Conditions do not require RCS activity to be calculated for April, May and June 2013.

3/13: Plant conditions were not met to calculate RCS activity for March 2013.

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	1.700	1.800	1.800	1.900	2.000	1.820	1.750	1.840	1.840	1.900	1.840	1.760
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.8**	**7.2**	**7.2**	**7.6**	**8.0**	**7.3**	**7.0**	**7.4**	**7.4**	**7.6**	**7.4**	**7.0**

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	N/A	N/A	N/A	1.800	1.690	1.920	1.740	1.760	1.790	1.800	1.720	1.720
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**N/A**	**N/A**	**N/A**	**7.2**	**6.8**	**7.7**	**7.0**	**7.0**	**7.2**	**7.2**	**6.9**	**6.9**

Licensee Comments:

6/13: Plant Conditions do not require RCS Leakage to be calculated for April 2013, May 2013 and June 2013.

6/13: Plant Conditions do not require RCS Leakage to be calculated for April 2013, May 2013 and June 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	42.0	40.0	46.0	16.0	7.0	37.0	77.0	30.0
Total opportunities	42.0	42.0	46.0	19.0	7.0	39.0	79.0	30.0
Indicator value	**95.4%**	**95.4%**	**96.1%**	**95.5%**	**95.3%**	**95.9%**	**96.6%**	**97.0%**

Licensee Comments:

3Q/12: Sept 2012 ammended to include 6 successes for 6 opportunities due to licensed operator requal exam security that was unavaillable for 3rd quarter submittal. No color change.

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	144.0	151.0	163.0	160.0	173.0	165.0	164.0	155.0
Total Key personnel	144.0	154.0	166.0	162.0	173.0	165.0	164.0	155.0
Indicator value	**100.0%**	**98.1%**	**98.2%**	**98.8%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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	1373	1374	1362	1368	1377	1377	1377	1376
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	**99.7%**	**99.7%**	**99.5%**	**99.4%**	**99.4%**	**99.5%**	**99.8%**	**99.9%**

Licensee Comments:

1Q/14: Alert and Notification System Reliability updated to reflect siren failure in July 2013. No color change.

3Q/13: Alert and Notification System Reliability updated to reflect siren failure in July 2013. No color change.

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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**	**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, 2014

Monticello

2Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2082.0	2209.0	1442.6	0	1826.8	2209.0	1722.5	2184.0
Indicator value	**2.6**	**0.8**	**0.9**	**1.2**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	1.0	0	0	0	0	0	2.0	0
Critical hours	2082.0	2209.0	1442.6	0	1826.8	2209.0	1722.5	2184.0
Indicator value	**0.9**	**0.8**	**0.9**	**1.2**	**0**	**0**	**2.4**	**1.8**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Safety System Functional Failures	1	1	0	0	2	1	0	0
Indicator value	**3**	**3**	**2**	**2**	**3**	**3**	**3**	**3**

Licensee Comments:

1Q/14: The indicator value for the 4Q2013 was revised to remove one SSFF (LER 2013-008) based on engineering analysis. The change did not affect the color of the indicator.

4Q/13: LER 2013-008, LER 2013-006

4Q/13: LER 2013-008, LER 2013-006 The indicator value for the 4Q2013 was revised to remove one SSFF (LER 2013-008) based on engineering analysis. The change did not affect the color of the indicator.

3Q/13: LER 2013-003-01, LER 2013-004

4Q/12: LER 2012-004

3Q/12: LER 2012-001, 7/5/2012

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 (ΔCDF)	-7.80E-10	-8.43E-10	-7.23E-10	-3.42E-10	-6.03E-10	-1.15E-09	-1.79E-08	-6.59E-09
URI (ΔCDF)	-7.43E-10	-3.77E-10	2.50E-12	1.94E-10	6.02E-10	1.03E-09	7.65E-10	2.36E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-09**	**-1.20E-09**	**-7.20E-10**	**-1.50E-10**	**-7.70E-13**	**-1.20E-10**	**-1.70E-08**	**2.30E-07**

Licensee Comments:

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**
UAI (ΔCDF)	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-4.33E-08	-4.33E-08
URI (ΔCDF)	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-7.21E-08	-7.32E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-1.20E-07**	**-1.20E-07**

Licensee Comments:

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**
UAI (ΔCDF)	-1.44E-08	-1.15E-08	-1.14E-08	-1.11E-08	-1.10E-08	-1.10E-08	-2.67E-08	-2.73E-08
URI (ΔCDF)	-2.11E-08	3.18E-09	3.18E-09	3.18E-09	3.18E-09	3.18E-09	4.25E-08	4.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.50E-08**	**-8.30E-09**	**-8.20E-09**	**-7.90E-09**	**-7.80E-09**	**-7.80E-09**	**1.60E-08**	**1.40E-08**

Licensee Comments:

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic

Event Probabilities for all monitored trains and components were revised.

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 (ΔCDF)	-2.23E-10	-2.73E-10	-3.05E-11	8.66E-11	1.95E-10	-3.83E-10	-3.62E-10	-3.58E-10
URI (ΔCDF)	9.68E-09	9.68E-09	9.68E-09	9.68E-09	1.67E-08	1.67E-08	6.06E-09	6.16E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.50E-09**	**9.40E-09**	**9.60E-09**	**9.80E-09**	**1.70E-08**	**1.60E-08**	**5.70E-09**	**5.80E-09**

Licensee Comments:

2Q/14: Changed PRA Parameter(s). Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a

corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

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 (ΔCDF)	-1.66E-09	-1.57E-09	-1.59E-09	-1.37E-09	-1.21E-09	-1.64E-09	-1.68E-09	-2.19E-09
URI (ΔCDF)	2.55E-12	2.55E-12	2.55E-12	2.55E-12	2.55E-12	1.75E-11	5.04E-11	3.89E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-09**	**-1.60E-09**	**-1.60E-09**	**-1.40E-09**	**-1.20E-09**	**-1.60E-09**	**-1.60E-09**	**-2.10E-09**

Licensee Comments:

2Q/14: Changed PRA Parameter(s). Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

4Q/13: Final engineering evaluation of Dec 2013 determined MSPI failure in cooling water system. Change did not result in a color change of the indicator.

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	0.000344	0.000399	0.000420	0.000354	0.000316	0.000273	0.000343	0.000302	N/A	N/A	N/A	N/A
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.2**	**0.2**	**N/A**	**N/A**	**N/A**	**N/A**

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	N/A	0.000232	0.000248	0.000339	0.000174	0.000166	0.000129	0.000252	0.000190	0.000160	0.000114	0.000131
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Indicator value	**N/A**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments:

9/13: Plant conditions were not met to calculate RCS activity for July 2013.

6/13: Plant Conditions do not require RCS activity to be calculated for April, May and June 2013.

3/13: Plant conditions were not met to calculate RCS activity for March 2013.

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	1.900	2.000	1.820	1.750	1.840	1.840	1.900	1.840	1.760	N/A	N/A	N/A
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**8.0**	**7.3**	**7.0**	**7.4**	**7.4**	**7.6**	**7.4**	**7.0**	**N/A**	**N/A**	**N/A**

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	1.800	1.690	1.920	1.740	1.760	1.790	1.800	1.720	1.720	1.880	1.730	1.760
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0

Indicator value	**7.2**	**6.8**	**7.7**	**7.0**	**7.0**	**7.2**	**7.2**	**6.9**	**6.9**	**7.5**	**6.9**	**7.0**

Licensee Comments:

6/13: Plant Conditions do not require RCS Leakage to be calculated for April 2013, May 2013 and June 2013.

6/13: Plant Conditions do not require RCS Leakage to be calculated for April 2013, May 2013 and June 2013.

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	40.0	46.0	16.0	7.0	37.0	77.0	30.0	92.0
Total opportunities	42.0	46.0	19.0	7.0	39.0	79.0	30.0	92.0
Indicator value	**95.4%**	**96.1%**	**95.5%**	**95.3%**	**95.9%**	**96.6%**	**97.0%**	**97.5%**

Licensee Comments:

3Q/12: Sept 2012 ammended to include 6 successes for 6 opportunities due to licensed operator requal exam security that was unavaillable for 3rd quarter submittal. No color change.

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	151.0	163.0	160.0	173.0	165.0	164.0	155.0	154.0
Total Key personnel	154.0	166.0	162.0	173.0	165.0	164.0	155.0	154.0
Indicator value	**98.1%**	**98.2%**	**98.8%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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	1374	1362	1368	1377	1377	1377	1376	1377
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	**99.7%**	**99.5%**	**99.4%**	**99.4%**	**99.5%**	**99.8%**	**99.9%**	**99.9%**

Licensee Comments:

1Q/14: Alert and Notification System Reliability updated to reflect siren failure in July 2013. No color change.

3Q/13: Alert and Notification System Reliability updated to reflect siren failure in July 2013. No color change.

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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**	**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 31, 2014

Monticello

3Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	1442.6	0	1826.8	2209.0	1722.5	2184.0	2208.0
Indicator value	**0.8**	**0.9**	**1.2**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	0	0	2.0	0	2.0
Critical hours	2209.0	1442.6	0	1826.8	2209.0	1722.5	2184.0	2208.0
Indicator value	**0.8**	**0.9**	**1.2**	**0**	**0**	**2.4**	**1.8**	**3.4**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Safety System Functional Failures	1	0	0	2	1	0	0	1
Indicator value	**3**	**2**	**2**	**3**	**3**	**3**	**3**	**2**

Licensee Comments:

1Q/14: The indicator value for the 4Q2013 was revised to remove one SSFF (LER 2013-008) based on engineering analysis. The change did not affect the color of the indicator.

4Q/13: LER 2013-008, LER 2013-006 The indicator value for the 4Q2013 was revised to remove one SSFF (LER 2013-008) based on engineering analysis. The change did not affect the color of the indicator.

4Q/13: LER 2013-008, LER 2013-006

3Q/13: LER 2013-003-01, LER 2013-004

4Q/12: LER 2012-004

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 (ΔCDF)	-8.43E-10	-7.23E-10	-3.42E-10	-6.03E-10	-1.15E-09	-1.79E-08	-6.59E-09	1.37E-08
URI (ΔCDF)	-3.77E-10	2.50E-12	1.94E-10	6.02E-10	1.03E-09	7.65E-10	2.36E-07	2.41E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-09**	**-7.20E-10**	**-1.50E-10**	**-7.70E-13**	**-1.20E-10**	**-1.70E-08**	**2.30E-07**	**2.50E-07**

Licensee Comments:

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**
UAI (ΔCDF)	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-4.33E-08	-4.33E-08	-4.33E-08
URI (ΔCDF)	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-7.21E-08	-7.32E-08	-7.42E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**

Licensee Comments:

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**
UAI (ΔCDF)	-1.15E-08	-1.14E-08	-1.11E-08	-1.10E-08	-1.10E-08	-2.67E-08	-2.73E-08	-2.73E-08
URI (ΔCDF)	3.18E-09	3.18E-09	3.18E-09	3.18E-09	3.18E-09	4.25E-08	4.12E-08	4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-09**	**-8.20E-09**	**-7.90E-09**	**-7.80E-09**	**-7.80E-09**	**1.60E-08**	**1.40E-08**	**1.30E-08**

Licensee Comments:

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU)

was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**
UAI (ΔCDF)	-2.73E-10	-3.05E-11	8.66E-11	1.95E-10	-3.83E-10	-3.62E-10	-3.58E-10	-3.78E-10
URI (ΔCDF)	9.68E-09	9.68E-09	9.68E-09	1.67E-08	1.67E-08	6.06E-09	6.16E-09	6.16E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.40E-09**	**9.60E-09**	**9.80E-09**	**1.70E-08**	**1.60E-08**	**5.70E-09**	**5.80E-09**	**5.80E-09**

Licensee Comments:

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

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 (ΔCDF)	-1.57E-09	-1.59E-09	-1.37E-09	-1.21E-09	-1.64E-09	-1.68E-09	-2.19E-09	-2.19E-09
URI (ΔCDF)	2.55E-12	2.55E-12	2.55E-12	2.55E-12	1.75E-11	5.04E-11	3.89E-11	3.89E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO

Indicator value	**-1.60E-09**	**-1.60E-09**	**-1.40E-09**	**-1.20E-09**	**-1.60E-09**	**-1.60E-09**	**-2.10E-09**	**-2.10E-09**

Licensee Comments:

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

4Q/13: Final engineering evaluation of Dec 2013 determined MSPI failure in cooling water system. Change did not result in a color change of the indicator.

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	0.000354	0.000316	0.000273	0.000343	0.000302	N/A	N/A	N/A	N/A	N/A	0.000232	0.000248
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.2**	**0.1**	**0.2**	**0.2**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**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	0.000339	0.000174	0.000166	0.000129	0.000252	0.000190	0.000160	0.000114	0.000131	0.000110	0.000094	0.000075
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**

Licensee Comments:

9/13: Plant conditions were not met to calculate RCS activity for July 2013.

6/13: Plant Conditions do not require RCS activity to be calculated for April, May and June 2013.

3/13: Plant conditions were not met to calculate RCS activity for March 2013.

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	1.750	1.840	1.840	1.900	1.840	1.760	N/A	N/A	N/A	1.800	1.690	1.920
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.0**	**7.4**	**7.4**	**7.6**	**7.4**	**7.0**	**N/A**	**N/A**	**N/A**	**7.2**	**6.8**	**7.7**

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	1.740	1.760	1.790	1.800	1.720	1.720	1.880	1.730	1.760	1.760	1.780	1.760
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.0**	**7.0**	**7.2**	**7.2**	**6.9**	**6.9**	**7.5**	**6.9**	**7.0**	**7.0**	**7.1**	**7.0**

Licensee Comments:

6/13: Plant Conditions do not require RCS Leakage to be calculated for April 2013, May 2013 and June 2013.

6/13: Plant Conditions do not require RCS Leakage to be calculated for April 2013, May 2013 and June 2013.

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	46.0	16.0	7.0	37.0	77.0	30.0	92.0	46.0
Total opportunities	46.0	19.0	7.0	39.0	79.0	30.0	92.0	46.0
Indicator value	**96.1%**	**95.5%**	**95.3%**	**95.9%**	**96.6%**	**97.0%**	**97.5%**	**98.0%**

Licensee Comments: none

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	163.0	160.0	173.0	165.0	164.0	155.0	154.0	151.0
Total Key personnel	166.0	162.0	173.0	165.0	164.0	155.0	154.0	151.0
Indicator value	**98.2%**	**98.8%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Notes

Alert & Notification System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful siren-tests	1362	1368	1377	1377	1377	1376	1377	1319
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1320
Indicator value	**99.5%**	**99.4%**	**99.4%**	**99.5%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments:

3Q/14: On September 3, 2014 a regularly scheduled test of the Alert and Noficiation System was only partially performed. The 48 sirens in Sherburne County were all tested successfully. Wright County chose not to test their 58 sirens due to severe weather alerts during the test period. These were considered non-opportunities in accordance with the guidance found in NEI 99-02 Rev. 7.

1Q/14: Alert and Notification System Reliability updated to reflect siren failure in July 2013. No color change.

3Q/13: Alert and Notification System Reliability updated to reflect siren failure in July 2013. No color change.

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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**	**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: November 3, 2014

Monticello

4Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1442.6	0	1826.8	2209.0	1722.5	2184.0	2208.0	2209.0
Indicator value	**0.9**	**1.2**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned power changes	0	0	0	0	2.0	0	2.0	0
Critical hours	1442.6	0	1826.8	2209.0	1722.5	2184.0	2208.0	2209.0
Indicator value	**0.9**	**1.2**	**0**	**0**	**2.4**	**1.8**	**3.4**	**3.4**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Safety System Functional Failures	0	0	2	2	0	0	1	0
Indicator value	**2**	**2**	**3**	**4**	**4**	**4**	**3**	**1**

Licensee Comments:

4Q/14: The indicator value for 4Q2013 added one safety system functional failure (LER 2013-007) to correct an omission error. The addition of this safety system functional failure does not change the indicator color.

3Q/14: LER 2014-009 The LER count was not omitted in the 3rd quarter, only the LER number in the comment. The value of the indicator did not change.

1Q/14: The indicator value for the 4Q2013 was revised to remove one SSFF (LER 2013-008) based on engineering analysis. The change did not affect the color of the indicator.

4Q/13: LER 2013-008, LER 2013-006 The indicator value for the 4Q2013 was revised to remove one SSFF (LER 2013-008) based on engineering analysis. The change did not affect the color of the indicator.

4Q/13: LER 2013-008, LER 2013-006 The indicator value for the 4Q2013 was revised to remove one SSFF (LER 2013-008) based on engineering analysis. The change did not affect the color of the indicator. LER 2013-007 Added one safety system functional failure to correct an omission error. The addition of this safety system functional failure does not change the indicator color.

4Q/13: LER 2013-008, LER 2013-006

3Q/13: LER 2013-003-01, LER 2013-004

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 (ΔCDF)	-7.23E-10	-3.42E-10	-6.03E-10	-1.15E-09	-1.79E-08	-6.59E-09	1.37E-08	7.37E-09
URI (ΔCDF)	2.50E-12	1.94E-10	6.02E-10	1.03E-09	7.65E-10	2.36E-07	2.41E-07	2.26E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.20E-10**	**-1.50E-10**	**-7.70E-13**	**-1.20E-10**	**-1.70E-08**	**2.30E-07**	**2.50E-07**	**2.30E-07**

Licensee Comments:

4Q/14: Monticello is evaluating an event associated with the EDGs that occurred late in 4th Quarter 2014. The associated engineering evaluation is not yet complete for the 4th quarter 2014 data submittal. Preliminary determination is no MSPI Failure against the Emergency AC Power indicator. Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014.

The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	-1.68E-08	-1.68E-08	-1.68E-08	-1.68E-08	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08
URI (ΔCDF)	-2.71E-08	-2.71E-08	-2.71E-08	-2.71E-08	-7.21E-08	-7.32E-08	-7.42E-08	-7.52E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**

Licensee Comments:

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (ΔCDF)	-1.14E-08	-1.11E-08	-1.10E-08	-1.10E-08	-2.67E-08	-2.73E-08	-2.73E-08	-2.75E-08
URI (ΔCDF)	3.18E-09	3.18E-09	3.18E-09	3.18E-09	4.25E-08	4.12E-08	4.00E-08	3.88E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO

Indicator value	**-8.20E-09**	**-7.90E-09**	**-7.80E-09**	**-7.80E-09**	**1.60E-08**	**1.40E-08**	**1.30E-08**	**1.10E-08**

Licensee Comments:

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
	-4.83E-			-3.88E-	-3.68E-	-3.63E-	-3.82E-	-3.82E-

UAI (ΔCDF)	11	6.69E-11	1.77E-10	10	10	10	10	10
URI (ΔCDF)	9.68E-09	9.68E-09	1.67E-08	1.67E-08	6.06E-09	6.16E-09	6.16E-09	3.57E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.60E-09**	**9.70E-09**	**1.70E-08**	**1.60E-08**	**5.70E-09**	**5.80E-09**	**5.80E-09**	**3.20E-09**

Licensee Comments:

4Q/14: Revision to estimated demands and run hours due to identification of a change > 25% for RHR estimated run hours, per NEI 99-02. Update applied to site MSPI Basis Document and applicable CDE fields. Revised data for 2Q2012, 3Q2012, 1Q2013, 3Q2013 and 4Q2013 to include short duration unavailability and unavailability hours when reactor not critical. This does not affect the MSPI color for any system.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/14: Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

4Q/13: This does not affect the MSPI color for any system. Extent of condition review corrected eight (8) instances from June 2012 through December 2013 regarding RHR planned unavailability hours. This relates to short duration unavailability in NEI 99-02 Rev. 7 Section F 1.2.1. Combined, the 8 instances add less than three hours of planned unavailability to the Residual Heat Removal System indicator. In addition, one (1) instance was identified and corrected related to unavailability hours reported when the reactor was not critical (March 2013).

3Q/13: This does not affect the MSPI color for any system. Extent of condition review corrected eight (8) instances from June 2012 through December 2013 regarding RHR planned unavailability hours. This relates to short duration unavailability in NEI 99-02 Rev. 7 Section F 1.2.1. Combined, the 8 instances add less than three hours of planned unavailability to the Residual Heat Removal System indicator. In addition, one (1) instance was identified and corrected related to unavailability hours reported when the reactor was not critical (March 2013).

1Q/13: This does not affect the MSPI color for any system. Extent of condition review corrected eight (8) instances from June 2012 through December 2013 regarding RHR planned unavailability hours. This relates to short duration unavailability in NEI 99-02 Rev. 7 Section F 1.2.1. Combined, the 8 instances add less than three hours of planned unavailability to the Residual Heat Removal System indicator. In addition, one (1) instance was identified and corrected related to unavailability hours reported when the reactor was not critical (March 2013).

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 (ΔCDF)	-1.59E-09	-1.37E-09	-1.21E-09	-1.64E-09	-1.68E-09	-2.19E-09	-2.19E-09	-2.22E-09
URI (ΔCDF)	2.55E-12	2.55E-12	2.55E-12	1.75E-11	5.04E-11	3.89E-11	3.89E-11	3.98E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-09**	**-1.40E-09**	**-1.20E-09**	**-1.60E-09**	**-1.60E-09**	**-2.10E-09**	**-2.10E-09**	**-2.20E-09**

Licensee Comments:

4Q/14: Revision to estimated demands and run hours to incorporate the results of a recent review and reflect current maintenance strategy. This review did not identify a change >25%, but data was updated so the time period of the estimated data is consistent with the update for the MSPI Residual Heat Removal System.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event

Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

4Q/13: Final engineering evaluation of Dec 2013 determined MSPI failure in cooling water system. Change did not result in a color change of the indicator.

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	0.000343	0.000302	N/A	N/A	N/A	N/A	N/A	0.000232	0.000248	0.000339	0.000174	0.000166
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.2**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**0.1**	**0.1**	**0.2**	**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	0.000129	0.000252	0.000190	0.000160	0.000114	0.000131	0.000110	0.000094	0.000075	0.000158	0.000139	0.000158

Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0.1**	**0.1**	**0.1**

Licensee Comments:

9/13: Plant conditions were not met to calculate RCS activity for July 2013.

6/13: Plant Conditions do not require RCS activity to be calculated for April, May and June 2013.

3/13: Plant conditions were not met to calculate RCS activity for March 2013.

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	1.900	1.840	1.760	N/A	N/A	N/A	1.800	1.690	1.920	1.740	1.760	1.790
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.6**	**7.4**	**7.0**	**N/A**	**N/A**	**N/A**	**7.2**	**6.8**	**7.7**	**7.0**	**7.0**	**7.2**

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	1.800	1.720	1.720	1.880	1.730	1.760	1.760	1.780	1.760	1.650	1.800	1.750
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.2**	**6.9**	**6.9**	**7.5**	**6.9**	**7.0**	**7.0**	**7.1**	**7.0**	**6.6**	**7.2**	**7.0**

Licensee Comments:

6/13: Plant Conditions do not require RCS Leakage to be calculated for April 2013, May 2013 and June 2013.

6/13: Plant Conditions do not require RCS Leakage to be calculated for April 2013, May 2013 and June 2013.

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	16.0	7.0	37.0	77.0	30.0	92.0	46.0	35.0
Total opportunities	19.0	7.0	39.0	79.0	30.0	92.0	46.0	35.0
Indicator value	**95.5%**	**95.3%**	**95.9%**	**96.6%**	**97.0%**	**97.5%**	**98.0%**	**98.0%**

Licensee Comments: none

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	160.0	173.0	165.0	164.0	155.0	154.0	151.0	144.0
Total Key personnel	162.0	173.0	165.0	164.0	155.0	154.0	151.0	144.0
Indicator value	**98.8%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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	1368	1377	1377	1377	1376	1377	1319	1482
Total sirens-tests	1378	1378	1378	1378	1378	1378	1320	1484
Indicator value	**99.4%**	**99.4%**	**99.5%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments:

3Q/14: On September 3, 2014 a regularly scheduled test of the Alert and Noficiation System was only partially performed. The 48 sirens in Sherburne County were all tested successfully. Wright County chose not to test their 58 sirens due to severe weather alerts during the test period. These were considered non-opportunities in accordance with the guidance found in NEI 99-02 Rev. 7.

1Q/14: Alert and Notification System Reliability updated to reflect siren failure in July 2013. No color change.

3Q/13: Alert and Notification System Reliability updated to reflect siren failure in July 2013. No color change.

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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**	**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: February 3, 2015

Monticello

1Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	0	1826.8	2209.0	1722.5	2184.0	2208.0	2209.0	2159.0
Indicator value	**1.2**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned power changes	0	0	0	2.0	0	2.0	0	0
Critical hours	0	1826.8	2209.0	1722.5	2184.0	2208.0	2209.0	2159.0
Indicator value	**1.2**	**0**	**0**	**2.4**	**1.8**	**3.4**	**3.4**	**1.6**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Scrams with complications	0	0	0	0	0	0	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 (BWR)

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Safety System Functional Failures	0	2	2	0	0	1	0	0
Indicator value	**2**	**3**	**4**	**4**	**4**	**3**	**1**	**1**

Licensee Comments:

4Q/14: The indicator value for 4Q2013 added one safety system functional failure (LER 2013-007) to correct an omission error. The addition of this safety system functional failure does not change the indicator color.

3Q/14: LER 2014-009 The LER count was not omitted in the 3rd quarter, only the LER number in the comment. The value of the indicator did not change.

1Q/14: The indicator value for the 4Q2013 was revised to remove one SSFF (LER 2013-008) based on engineering analysis. The change did not affect the color of the indicator.

4Q/13: LER 2013-008, LER 2013-006 The indicator value for the 4Q2013 was revised to remove one SSFF (LER 2013-008) based on engineering analysis. The change did not affect the color of the indicator.

4Q/13: LER 2013-008, LER 2013-006 The indicator value for the 4Q2013 was revised to remove one SSFF (LER 2013-008) based on engineering analysis. The change did not affect the color of the indicator. LER 2013-007 Added one safety system functional failure to correct an omission error. The addition of this safety system functional failure does not change the indicator color.

4Q/13: LER 2013-008, LER 2013-006

3Q/13: LER 2013-003-01, LER 2013-004

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 (ΔCDF)	-3.55E-10	-5.83E-10	-1.15E-09	-1.79E-08	-5.21E-09	1.54E-08	1.07E-08	9.57E-09
URI (ΔCDF)	1.94E-10	6.02E-10	1.03E-09	7.65E-10	2.36E-07	2.41E-07	2.41E-07	2.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-10**	**1.90E-11**	**-1.20E-10**	**-1.70E-08**	**2.30E-07**	**2.60E-07**	**2.50E-07**	**2.50E-07**

Licensee Comments:

1Q/15: The engineering evaluation for the EDG event that occurred late in 4th Quarter 2014 (12/28/14) has been complete. The evaluation determined this event was a MSPI Demand Failure of the 11 EDG (G3A). This constitutes resolution of the incomplete engineering evaluation from last quarter, per NEI 99-02 Rev. 7 Section F 2.2.2. This does not change the MSPI color for the Emergency AC Power Indicator.

4Q/14: Monticello is evaluating an event associated with the EDGs that occurred late in 4th Quarter 2014. The associated engineering evaluation is not yet complete for the 4th quarter 2014 data submittal. Preliminary determination is no MSPI Failure against the Emergency AC Power indicator. Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2.

4Q/14: Monticello is evaluating an event associated with the EDGs that occurred late in 4th Quarter 2014. The associated engineering evaluation is not yet complete for the 4th quarter 2014 data submittal. Preliminary determination is no MSPI Failure against the Emergency AC Power indicator. Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2. The engineering evaluation for the EDG event that occurred late in 4th Quarter 2014 (12/28/14) has been complete. The evaluation determined this event was a MSPI Demand Failure of the 11 EDG (G3A). This constitutes resolution of the incomplete engineering evaluation from last quarter, per NEI 99-02 Rev. 7 Section F 2.2.2. This does not change the MSPI color for the Emergency AC Power Indicator. MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

3Q/14: MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/14: Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

1Q/14: The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised. MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

4Q/13: MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation

identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

3Q/13: MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

2Q/13: MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

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 (ΔCDF)	-1.68E-08	-1.68E-08	-1.68E-08	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08
URI (ΔCDF)	-2.71E-08	-2.71E-08	-2.71E-08	-7.21E-08	-7.32E-08	-7.42E-08	-7.52E-08	-7.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO

Indicator value	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**

Licensee Comments:

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**

UAI (ΔCDF)	-1.11E-08	-1.10E-08	-1.10E-08	-2.67E-08	-2.73E-08	-2.73E-08	-2.75E-08	-2.74E-08
URI (ΔCDF)	3.18E-09	3.18E-09	3.18E-09	4.25E-08	4.12E-08	4.00E-08	3.88E-08	3.77E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.90E-09**	**-7.80E-09**	**-7.80E-09**	**1.60E-08**	**1.40E-08**	**1.30E-08**	**1.10E-08**	**1.00E-08**

Licensee Comments:

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

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 (ΔCDF)	6.69E-11	1.77E-10	-3.88E-10	-3.68E-10	-3.63E-10	-3.82E-10	-3.82E-10	-3.51E-10
URI (ΔCDF)	9.68E-09	1.67E-08	1.67E-08	6.06E-09	6.16E-09	6.16E-09	3.57E-09	3.57E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.70E-09**	**1.70E-08**	**1.60E-08**	**5.70E-09**	**5.80E-09**	**5.80E-09**	**3.20E-09**	**3.20E-09**

Licensee Comments:

4Q/14: Revision to estimated demands and run hours due to identification of a change > 25% for RHR estimated run hours, per NEI 99-02. Update applied to site MSPI Basis Document and applicable CDE fields. Revised data for 2Q2012, 3Q2012, 1Q2013, 3Q2013 and 4Q2013 to include short duration unavailability and unavailability hours when reactor not critical. This does not affect the MSPI color for any system.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/14: Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

4Q/13: This does not affect the MSPI color for any system. Extent of condition review corrected eight (8) instances from June 2012 through December 2013 regarding RHR planned unavailability hours. This relates to short duration unavailability in NEI 99-02 Rev. 7 Section F 1.2.1. Combined, the 8 instances add less than three hours of planned unavailability to the Residual Heat Removal System indicator. In addition, one (1) instance was identified and corrected related to unavailability hours reported when the reactor was not critical (March 2013).

3Q/13: This does not affect the MSPI color for any system. Extent of condition review corrected eight (8) instances from June 2012 through December 2013 regarding RHR planned unavailability hours. This relates to short duration unavailability in NEI 99-02 Rev. 7 Section F 1.2.1. Combined, the 8 instances add less than three hours of planned unavailability to the Residual Heat Removal System indicator. In addition, one (1) instance was identified and corrected related to unavailability hours reported when the reactor was not critical (March 2013).

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 (ΔCDF)	-1.37E-09	-1.21E-09	-1.64E-09	-1.68E-09	-2.19E-09	-2.19E-09	-2.22E-09	-2.03E-09
URI (ΔCDF)	2.55E-12	2.55E-12	1.75E-11	5.04E-11	3.89E-11	3.89E-11	3.98E-11	6.72E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-09**	**-1.20E-09**	**-1.60E-09**	**-1.60E-09**	**-2.10E-09**	**-2.10E-09**	**-2.20E-09**	**-2.00E-09**

Licensee Comments:

4Q/14: Revision to estimated demands and run hours to incorporate the results of a recent review and reflect current maintenance strategy. This review did not identify a change >25%, but data was updated so the time period of the estimated data is consistent with the update for the MSPI Residual Heat Removal System.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event

Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

4Q/13: Final engineering evaluation of Dec 2013 determined MSPI failure in cooling water system. Change did not result in a color change of the indicator.

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	N/A	N/A	N/A	N/A	0.000232	0.000248	0.000339	0.000174	0.000166	0.000129	0.000252	0.000190
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**N/A**	**N/A**	**N/A**	**N/A**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

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	0.000160	0.000114	0.000131	0.000110	0.000094	0.000075	0.000158	0.000139	0.000158	0.000136	0.000146	0.000129

Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments:

9/13: Plant conditions were not met to calculate RCS activity for July 2013.

6/13: Plant Conditions do not require RCS activity to be calculated for April, May and June 2013.

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	N/A	N/A	N/A	1.800	1.690	1.920	1.740	1.760	1.790	1.800	1.720	1.720
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**N/A**	**N/A**	**N/A**	**7.2**	**6.8**	**7.7**	**7.0**	**7.0**	**7.2**	**7.2**	**6.9**	**6.9**

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	1.880	1.730	1.760	1.760	1.780	1.760	1.650	1.800	1.750	1.740	1.770	1.750

Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.5**	**6.9**	**7.0**	**7.0**	**7.1**	**7.0**	**6.6**	**7.2**	**7.0**	**7.0**	**7.1**	**7.0**

Licensee Comments:

6/13: Plant Conditions do not require RCS Leakage to be calculated for April 2013, May 2013 and June 2013.

6/13: Plant Conditions do not require RCS Leakage to be calculated for April 2013, May 2013 and June 2013.

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	7.0	37.0	77.0	30.0	92.0	46.0	35.0	21.0
Total opportunities	7.0	39.0	79.0	30.0	92.0	46.0	35.0	23.0
Indicator value	**95.3%**	**95.9%**	**96.6%**	**97.0%**	**97.5%**	**98.0%**	**98.0%**	**98.3%**

Licensee Comments: none

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	173.0	165.0	164.0	155.0	154.0	151.0	144.0	148.0
Total Key personnel	173.0	165.0	164.0	155.0	154.0	151.0	144.0	148.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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	1377	1377	1377	1376	1377	1319	1482	1270
Total sirens-tests	1378	1378	1378	1378	1378	1320	1484	1272
Indicator value	**99.4%**	**99.5%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments:

3Q/14: On September 3, 2014 a regularly scheduled test of the Alert and Noficiation System was only partially performed. The 48 sirens in Sherburne County were all tested successfully. Wright County chose not to test their 58 sirens due to severe weather alerts during the test period. These were considered non-opportunities in accordance with the guidance found in NEI 99-02 Rev. 7.

1Q/14: Alert and Notification System Reliability updated to reflect siren failure in July 2013. No color change.

3Q/13: Alert and Notification System Reliability updated to reflect siren failure in July 2013. No color change.

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

Monticello

2Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1826.8	2209.0	1722.5	2184.0	2208.0	2209.0	2159.0	1075.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned power changes	0	0	2.0	0	2.0	0	0	0
Critical hours	1826.8	2209.0	1722.5	2184.0	2208.0	2209.0	2159.0	1075.2
Indicator value	**0**	**0**	**2.4**	**1.8**	**3.4**	**3.4**	**1.6**	**1.8**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Safety System Functional Failures	2	2	0	0	1	0	0	1
Indicator value	**3**	**4**	**4**	**4**	**3**	**1**	**1**	**2**

Licensee Comments:

2Q/15: LER 2015-002-00, Loss of Shutdown Cooling Due to Improperly Landed Jumper Wire, dated June 29, 2015. This event was submitted to the NRC as a SSFF.

4Q/14: The indicator value for 4Q2013 added one safety system functional failure (LER 2013-007) to correct an omission error. The addition of this safety system functional failure does not change the indicator color.

3Q/14: LER 2014-009 The LER count was not omitted in the 3rd quarter, only the LER number in the comment. The value of the indicator did not change.

1Q/14: The indicator value for the 4Q2013 was revised to remove one SSFF (LER 2013-008) based on engineering analysis. The change did not affect the color of the indicator.

4Q/13: LER 2013-008, LER 2013-006 The indicator value for the 4Q2013 was revised to remove one SSFF (LER 2013-008) based on engineering analysis. The change did not affect the color of the indicator. LER 2013-007 Added one safety system functional failure to correct an omission error. The addition of this safety system functional failure does not change the indicator color.

4Q/13: LER 2013-008, LER 2013-006

4Q/13: LER 2013-008, LER 2013-006 The indicator value for the 4Q2013 was revised to remove one SSFF (LER

2013-008) based on engineering analysis. The change did not affect the color of the indicator.

3Q/13: LER 2013-003-01, LER 2013-004

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 (ΔCDF)	-5.83E-10	-1.15E-09	-1.79E-08	-5.21E-09	1.54E-08	1.07E-08	9.57E-09	1.06E-08
URI (ΔCDF)	6.02E-10	1.03E-09	7.65E-10	2.36E-07	2.41E-07	2.41E-07	2.40E-07	2.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.90E-11**	**-1.20E-10**	**-1.70E-08**	**2.30E-07**	**2.60E-07**	**2.50E-07**	**2.50E-07**	**2.50E-07**

Licensee Comments:

1Q/15: The engineering evaluation for the EDG event that occurred late in 4th Quarter 2014 (12/28/14) has been complete. The evaluation determined this event was a MSPI Demand Failure of the 11 EDG (G3A). This constitutes resolution of the incomplete engineering evaluation from last quarter, per NEI 99-02 Rev. 7 Section F 2.2.2. This does not change the MSPI color for the Emergency AC Power Indicator.

4Q/14: Monticello is evaluating an event associated with the EDGs that occurred late in 4th Quarter 2014. The associated engineering evaluation is not yet complete for the 4th quarter 2014 data submittal. Preliminary determination is no MSPI Failure against the Emergency AC Power indicator. Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2. The engineering evaluation for the EDG event that occurred late in 4th Quarter 2014 (12/28/14) has been complete. The evaluation determined this event was a MSPI Demand Failure of the 11 EDG (G3A). This constitutes resolution of the incomplete engineering evaluation from last quarter, per NEI 99-02 Rev. 7 Section F 2.2.2. This does not change the MSPI color for the Emergency AC Power Indicator. MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

4Q/14: Monticello is evaluating an event associated with the EDGs that occurred late in 4th Quarter 2014. The associated engineering evaluation is not yet complete for the 4th quarter 2014 data submittal. Preliminary determination is no MSPI Failure against the Emergency AC Power indicator. Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2.

3Q/14: MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/14: Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

1Q/14: The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised. MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic

Event Probabilities for all monitored trains and components were revised.

4Q/13: MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

3Q/13: MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

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 (ΔCDF)	-1.68E-08	-1.68E-08	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08
URI (ΔCDF)	-2.71E-08	-2.71E-08	-7.21E-08	-7.32E-08	-7.42E-08	-7.52E-08	-7.62E-08	-7.71E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO

Indicator value	**-4.40E-08**	**-4.40E-08**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**

Licensee Comments:

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
			-2.67E-	-2.73E-	-2.73E-	-2.75E-	-2.74E-	-2.71E-

UAI (ΔCDF)	-1.10E-08	-1.10E-08	08	08	08	08	08	08
URI (ΔCDF)	3.18E-09	3.18E-09	4.25E-08	4.12E-08	4.00E-08	3.88E-08	3.77E-08	3.65E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.80E-09**	**-7.80E-09**	**1.60E-08**	**1.40E-08**	**1.30E-08**	**1.10E-08**	**1.00E-08**	**9.50E-09**

Licensee Comments:

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

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 (ΔCDF)	1.77E-10	-3.88E-10	-3.68E-10	-3.63E-10	-3.82E-10	-3.82E-10	-3.51E-10	-3.37E-10
URI (ΔCDF)	1.67E-08	1.67E-08	6.06E-09	6.16E-09	6.16E-09	3.57E-09	3.57E-09	3.57E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.70E-08**	**1.60E-08**	**5.70E-09**	**5.80E-09**	**5.80E-09**	**3.20E-09**	**3.20E-09**	**3.20E-09**

Licensee Comments:

4Q/14: Revision to estimated demands and run hours due to identification of a change > 25% for RHR estimated run hours, per NEI 99-02. Update applied to site MSPI Basis Document and applicable CDE fields. Revised data for 2Q2012, 3Q2012, 1Q2013, 3Q2013 and 4Q2013 to include short duration unavailability and unavailability hours when reactor not critical. This does not affect the MSPI color for any system.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/14: Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

4Q/13: This does not affect the MSPI color for any system. Extent of condition review corrected eight (8) instances from June 2012 through December 2013 regarding RHR planned unavailability hours. This relates to short duration unavailability in NEI 99-02 Rev. 7 Section F 1.2.1. Combined, the 8 instances add less than three hours of planned unavailability to the Residual Heat Removal System indicator. In addition, one (1) instance was identified and corrected related to unavailability hours reported when the reactor was not critical (March 2013).

3Q/13: This does not affect the MSPI color for any system. Extent of condition review corrected eight (8) instances from June 2012 through December 2013 regarding RHR planned unavailability hours. This relates to short duration unavailability in NEI 99-02 Rev. 7 Section F 1.2.1. Combined, the 8 instances add less than three hours of planned unavailability to the Residual Heat Removal System indicator. In addition, one (1) instance was identified and corrected related to unavailability hours reported when the reactor was not critical (March 2013).

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 (ΔCDF)	-1.21E-09	-1.64E-09	-1.68E-09	-2.19E-09	-2.19E-09	-2.22E-09	-2.03E-09	-2.60E-09
URI (ΔCDF)	2.55E-12	1.75E-11	5.04E-11	3.89E-11	3.89E-11	3.98E-11	6.72E-12	7.25E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-09**	**-1.60E-09**	**-1.60E-09**	**-2.10E-09**	**-2.10E-09**	**-2.20E-09**	**-2.00E-09**	**-2.60E-09**

Licensee Comments:

4Q/14: Revision to estimated demands and run hours to incorporate the results of a recent review and reflect current maintenance strategy. This review did not identify a change >25%, but data was updated so the time period of the estimated data is consistent with the update for the MSPI Residual Heat Removal System.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event

Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

4Q/13: Final engineering evaluation of Dec 2013 determined MSPI failure in cooling water system. Change did not result in a color change of the indicator.

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	N/A	0.000232	0.000248	0.000339	0.000174	0.000166	0.000129	0.000252	0.000190	0.000160	0.000114	0.000131
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**N/A**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

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	0.000110	0.000094	0.000075	0.000158	0.000139	0.000158	0.000136	0.000146	0.000129	0.000125	N/A	0.000124
Technical												

specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0.1**

Licensee Comments:

6/15: Plant conditions for May 2015 did not meet criteria for Maximum I-131 Activity due to RFO.

9/13: Plant conditions were not met to calculate RCS activity for July 2013.

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	1.800	1.690	1.920	1.740	1.760	1.790	1.800	1.720	1.720	1.880	1.730	1.760
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.2**	**6.8**	**7.7**	**7.0**	**7.0**	**7.2**	**7.2**	**6.9**	**6.9**	**7.5**	**6.9**	**7.0**
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	1.760	1.780	1.760	1.650	1.800	1.750	1.740	1.770	1.750	1.710	1.520	1.720
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0

Indicator value	**7.0**	**7.1**	**7.0**	**6.6**	**7.2**	**7.0**	**7.0**	**7.1**	**7.0**	**6.8**	**6.1**	**6.9**

Licensee Comments: none

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	37.0	77.0	30.0	92.0	46.0	35.0	21.0	19.0
Total opportunities	39.0	79.0	30.0	92.0	46.0	35.0	23.0	19.0
Indicator value	**95.9%**	**96.6%**	**97.0%**	**97.5%**	**98.0%**	**98.0%**	**98.3%**	**98.3%**

Licensee Comments: none

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	165.0	164.0	155.0	154.0	151.0	144.0	148.0	136.0
Total Key personnel	165.0	164.0	155.0	154.0	151.0	144.0	148.0	136.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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	1377	1377	1376	1377	1319	1482	1270	1377
Total sirens-tests	1378	1378	1378	1378	1320	1484	1272	1378
Indicator value	**99.5%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments:

3Q/14: On September 3, 2014 a regularly scheduled test of the Alert and Noficiation System was only partially performed. The 48 sirens in Sherburne County were all tested successfully. Wright County chose not to test their 58 sirens due to severe weather alerts during the test period. These were considered non-opportunities in accordance with the guidance found in NEI 99-02 Rev. 7.

1Q/14: Alert and Notification System Reliability updated to reflect siren failure in July 2013. No color change.

3Q/13: Alert and Notification System Reliability updated to reflect siren failure in July 2013. No color change.

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

Monticello

3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	1722.5	2184.0	2208.0	2209.0	2159.0	1075.2	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	2.0	0	2.0	0	0	0	0
Critical hours	2209.0	1722.5	2184.0	2208.0	2209.0	2159.0	1075.2	2208.0
Indicator value	**0**	**2.4**	**1.8**	**3.4**	**3.4**	**1.6**	**1.8**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Scrams with complications	0	0	0	0	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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Safety System Functional Failures	2	0	0	1	0	0	1	0
Indicator value	**4**	**4**	**4**	**3**	**1**	**1**	**2**	**1**

Licensee Comments:

2Q/15: LER 2015-002-00, Loss of Shutdown Cooling Due to Improperly Landed Jumper Wire, dated June 29, 2015. This event was submitted to the NRC as a SSFF.

4Q/14: The indicator value for 4Q2013 added one safety system functional failure (LER 2013-007) to correct an omission error. The addition of this safety system functional failure does not change the indicator color.

3Q/14: LER 2014-009 The LER count was not omitted in the 3rd quarter, only the LER number in the comment. The value of the indicator did not change.

1Q/14: The indicator value for the 4Q2013 was revised to remove one SSFF (LER 2013-008) based on engineering analysis. The change did not affect the color of the indicator.

4Q/13: LER 2013-008, LER 2013-006 The indicator value for the 4Q2013 was revised to remove one SSFF (LER 2013-008) based on engineering analysis. The change did not affect the color of the indicator. LER 2013-007 Added one safety system functional failure to correct an omission error. The addition of this safety system functional failure does not change the indicator color.

4Q/13: LER 2013-008, LER 2013-006

4Q/13: LER 2013-008, LER 2013-006 The indicator value for the 4Q2013 was revised to remove one SSFF (LER

2013-008) based on engineering analysis. The change did not affect the color of the indicator.

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 (ΔCDF)	-1.15E-09	-1.79E-08	-5.21E-09	1.54E-08	1.07E-08	9.57E-09	1.06E-08	1.55E-08
URI (ΔCDF)	1.03E-09	7.65E-10	2.36E-07	2.41E-07	2.41E-07	2.40E-07	2.40E-07	2.39E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-10**	**-1.70E-08**	**2.30E-07**	**2.60E-07**	**2.50E-07**	**2.50E-07**	**2.50E-07**	**2.50E-07**

Licensee Comments:

3Q/15: MSPI Emergency AC Power System - 3Q2015: The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The new MSPI coefficients will be updated for 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

1Q/15: The engineering evaluation for the EDG event that occurred late in 4th Quarter 2014 (12/28/14) has been complete. The evaluation determined this event was a MSPI Demand Failure of the 11 EDG (G3A). This constitutes resolution of the incomplete engineering evaluation from last quarter, per NEI 99-02 Rev. 7 Section

F 2.2.2. This does not change the MSPI color for the Emergency AC Power Indicator.

4Q/14: Monticello is evaluating an event associated with the EDGs that occurred late in 4th Quarter 2014. The associated engineering evaluation is not yet complete for the 4th quarter 2014 data submittal. Preliminary determination is no MSPI Failure against the Emergency AC Power indicator. Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2. The engineering evaluation for the EDG event that occurred late in 4th Quarter 2014 (12/28/14) has been complete. The evaluation determined this event was a MSPI Demand Failure of the 11 EDG (G3A). This constitutes resolution of the incomplete engineering evaluation from last quarter, per NEI 99-02 Rev. 7 Section F 2.2.2. This does not change the MSPI color for the Emergency AC Power Indicator. MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

4Q/14: Monticello is evaluating an event associated with the EDGs that occurred late in 4th Quarter 2014. The associated engineering evaluation is not yet complete for the 4th quarter 2014 data submittal. Preliminary determination is no MSPI Failure against the Emergency AC Power indicator. Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2.

3Q/14: Changed PRA Parameter(s).

3Q/14: MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/14: Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

1Q/14: The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised. MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a

corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

4Q/13: MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

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 (ΔCDF)	-1.68E-08	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08
URI (ΔCDF)	-2.71E-08	-7.21E-08	-7.32E-08	-7.42E-08	-7.52E-08	-7.62E-08	-7.71E-08	-7.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.40E-08**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**

Licensee Comments:

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (ΔCDF)	-1.10E-08	-2.67E-08	-2.73E-08	-2.73E-08	-2.75E-08	-2.74E-08	-2.71E-08	-2.71E-08
URI (ΔCDF)	3.18E-09	4.25E-08	4.12E-08	4.00E-08	3.88E-08	3.77E-08	3.65E-08	3.54E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO

Indicator value	**-7.80E-09**	**1.60E-08**	**1.40E-08**	**1.30E-08**	**1.10E-08**	**1.00E-08**	**9.50E-09**	**8.30E-09**

Licensee Comments:

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
	-3.88E-	-3.68E-	-3.63E-	-3.82E-	-3.82E-	-3.51E-	-3.37E-	-3.32E-

UAI (ΔCDF)	10	10	10	10	10	10	10	10
URI (ΔCDF)	1.67E-08	6.06E-09	6.16E-09	6.16E-09	3.57E-09	3.57E-09	3.57E-09	3.57E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.60E-08**	**5.70E-09**	**5.80E-09**	**5.80E-09**	**3.20E-09**	**3.20E-09**	**3.20E-09**	**3.20E-09**

Licensee Comments:

4Q/14: Revision to estimated demands and run hours due to identification of a change > 25% for RHR estimated run hours, per NEI 99-02. Update applied to site MSPI Basis Document and applicable CDE fields. Revised data for 2Q2012, 3Q2012, 1Q2013, 3Q2013 and 4Q2013 to include short duration unavailability and unavailability hours when reactor not critical. This does not affect the MSPI color for any system.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/14: Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

4Q/13: This does not affect the MSPI color for any system. Extent of condition review corrected eight (8) instances from June 2012 through December 2013 regarding RHR planned unavailability hours. This relates to short duration unavailability in NEI 99-02 Rev. 7 Section F 1.2.1. Combined, the 8 instances add less than three hours of planned unavailability to the Residual Heat Removal System indicator. In addition, one (1) instance was identified and corrected related to unavailability hours reported when the reactor was not critical (March 2013).

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 (ΔCDF)	-1.64E-09	-1.68E-09	-2.19E-09	-2.19E-09	-2.22E-09	-2.03E-09	-2.60E-09	-2.65E-09
URI (ΔCDF)	1.75E-11	5.04E-11	3.89E-11	3.89E-11	3.98E-11	6.72E-12	7.25E-12	7.80E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-09**	**-1.60E-09**	**-2.10E-09**	**-2.10E-09**	**-2.20E-09**	**-2.00E-09**	**-2.60E-09**	**-2.60E-09**

Licensee Comments:

4Q/14: Revision to estimated demands and run hours to incorporate the results of a recent review and reflect current maintenance strategy. This review did not identify a change >25%, but data was updated so the time period of the estimated data is consistent with the update for the MSPI Residual Heat Removal System.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic

Event Probabilities for all monitored trains and components were revised.

4Q/13: Final engineering evaluation of Dec 2013 determined MSPI failure in cooling water system. Change did not result in a color change of the indicator.

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	0.000339	0.000174	0.000166	0.000129	0.000252	0.000190	0.000160	0.000114	0.000131	0.000110	0.000094	0.000075
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**

Reactor Coolant System Activity	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**
Maximum activity	0.000158	0.000139	0.000158	0.000136	0.000146	0.000129	0.000125	N/A	0.000124	0.000107	0.000113	0.000104
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments:

6/15: Plant conditions for May 2015 did not meet criteria for Maximum I-131 Activity due to RFO.

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	1.740	1.760	1.790	1.800	1.720	1.720	1.880	1.730	1.760	1.760	1.780	1.760
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.0**	**7.0**	**7.2**	**7.2**	**6.9**	**6.9**	**7.5**	**6.9**	**7.0**	**7.0**	**7.1**	**7.0**
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	1.650	1.800	1.750	1.740	1.770	1.750	1.710	1.520	1.720	1.740	1.810	1.840
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.6**	**7.2**	**7.0**	**7.0**	**7.1**	**7.0**	**6.8**	**6.1**	**6.9**	**7.0**	**7.2**	**7.4**

Licensee Comments: none

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	77.0	30.0	92.0	46.0	35.0	21.0	19.0	42.0
Total opportunities	79.0	30.0	92.0	46.0	35.0	23.0	19.0	44.0
Indicator value	**96.6%**	**97.0%**	**97.5%**	**98.0%**	**98.0%**	**98.3%**	**98.3%**	**98.4%**

Licensee Comments: none

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	164.0	155.0	154.0	151.0	144.0	148.0	136.0	129.0
Total Key personnel	164.0	155.0	154.0	151.0	144.0	148.0	136.0	131.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.5%**

Licensee Comments: none

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	1377	1376	1377	1319	1482	1270	1377	1479
Total sirens-tests	1378	1378	1378	1320	1484	1272	1378	1484
Indicator value	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**

Licensee Comments:

3Q/14: On September 3, 2014 a regularly scheduled test of the Alert and Noficiation System was only partially performed. The 48 sirens in Sherburne County were all tested successfully. Wright County chose not to test their 58 sirens due to severe weather alerts during the test period. These were considered non-opportunities in accordance with the guidance found in NEI 99-02 Rev. 7.

1Q/14: Alert and Notification System Reliability updated to reflect siren failure in July 2013. No color change.

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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

Monticello

4Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	1722.5	2184.0	2208.0	2209.0	2159.0	1075.2	2208.0	2050.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**

Licensee Comments: none

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	2.0	0	2.0	0	0	0	0	0
Critical hours	1722.5	2184.0	2208.0	2209.0	2159.0	1075.2	2208.0	2050.0
Indicator value	**2.4**	**1.8**	**3.4**	**3.4**	**1.6**	**1.8**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Scrams with complications	0	0	0	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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Safety System Functional Failures	0	0	1	0	0	1	0	0
Indicator value	**4**	**4**	**3**	**1**	**1**	**2**	**1**	**1**

Licensee Comments:

2Q/15: LER 2015-002-00, Loss of Shutdown Cooling Due to Improperly Landed Jumper Wire, dated June 29, 2015. This event was submitted to the NRC as a SSFF.

4Q/14: The indicator value for 4Q2013 added one safety system functional failure (LER 2013-007) to correct an omission error. The addition of this safety system functional failure does not change the indicator color.

3Q/14: LER 2014-009 The LER count was not omitted in the 3rd quarter, only the LER number in the comment. The value of the indicator did not change.

1Q/14: The indicator value for the 4Q2013 was revised to remove one SSFF (LER 2013-008) based on engineering analysis. The change did not affect the color of the indicator.

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 (ΔCDF)	-1.79E-08	-5.21E-09	1.54E-08	1.07E-08	9.57E-09	1.06E-08	1.55E-08	1.77E-08
URI (ΔCDF)	7.65E-10	2.36E-07	2.41E-07	2.41E-07	2.40E-07	2.40E-07	2.39E-07	2.08E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-08**	**2.30E-07**	**2.60E-07**	**2.50E-07**	**2.50E-07**	**2.50E-07**	**2.50E-07**	**2.30E-07**

Licensee Comments:

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

3Q/15: MSPI Emergency AC Power System - 3Q2015: The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The new MSPI coefficients will be updated for 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

1Q/15: The engineering evaluation for the EDG event that occurred late in 4th Quarter 2014 (12/28/14) has been complete. The evaluation determined this event was a MSPI Demand Failure of the 11 EDG (G3A). This constitutes resolution of the incomplete engineering evaluation from last quarter, per NEI 99-02 Rev. 7 Section F 2.2.2. This does not change the MSPI color for the Emergency AC Power Indicator.

4Q/14: Monticello is evaluating an event associated with the EDGs that occurred late in 4th Quarter 2014. The associated engineering evaluation is not yet complete for the 4th quarter 2014 data submittal. Preliminary

determination is no MSPI Failure against the Emergency AC Power indicator. Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2.

4Q/14: Monticello is evaluating an event associated with the EDGs that occurred late in 4th Quarter 2014. The associated engineering evaluation is not yet complete for the 4th quarter 2014 data submittal. Preliminary determination is no MSPI Failure against the Emergency AC Power indicator. Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2. The engineering evaluation for the EDG event that occurred late in 4th Quarter 2014 (12/28/14) has been complete. The evaluation determined this event was a MSPI Demand Failure of the 11 EDG (G3A). This constitutes resolution of the incomplete engineering evaluation from last quarter, per NEI 99-02 Rev. 7 Section F 2.2.2. This does not change the MSPI color for the Emergency AC Power Indicator. MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

3Q/14: MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/14: Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

1Q/14: The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised. MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

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 (ΔCDF)	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08	-5.00E-08
URI (ΔCDF)	-7.21E-08	-7.32E-08	-7.42E-08	-7.52E-08	-7.62E-08	-7.71E-08	-7.80E-08	-9.51E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.50E-07**

Licensee Comments:

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The

Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	-2.67E-08	-2.73E-08	-2.73E-08	-2.75E-08	-2.74E-08	-2.71E-08	-2.71E-08	-4.71E-08
URI (ΔCDF)	4.25E-08	4.12E-08	4.00E-08	3.88E-08	3.77E-08	3.65E-08	3.54E-08	-7.95E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.60E-08**	**1.40E-08**	**1.30E-08**	**1.10E-08**	**1.00E-08**	**9.50E-09**	**8.30E-09**	**-1.30E-07**

Licensee Comments:

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (ΔCDF)	-3.68E-10	-3.63E-10	-3.82E-10	-3.82E-10	-3.51E-10	-3.37E-10	-3.32E-10	-1.88E-10

URI (ΔCDF)	6.06E-09	6.16E-09	6.16E-09	3.57E-09	3.57E-09	3.57E-09	3.57E-09	3.05E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**5.70E-09**	**5.80E-09**	**5.80E-09**	**3.20E-09**	**3.20E-09**	**3.20E-09**	**3.20E-09**	**2.90E-09**

Licensee Comments:

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

4Q/14: Revision to estimated demands and run hours due to identification of a change > 25% for RHR estimated run hours, per NEI 99-02. Update applied to site MSPI Basis Document and applicable CDE fields. Revised data for 2Q2012, 3Q2012, 1Q2013, 3Q2013 and 4Q2013 to include short duration unavailability and unavailability hours when reactor not critical. This does not affect the MSPI color for any system.

3Q/14: Changed PRA Parameter(s).

2Q/14: Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/14: Changed PRA Parameter(s). Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

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 (ΔCDF)	-1.68E-09	-2.19E-09	-2.19E-09	-2.22E-09	-2.03E-09	-2.60E-09	-2.65E-09	-3.04E-09
URI (ΔCDF)	5.04E-11	3.89E-11	3.89E-11	3.98E-11	6.72E-12	7.25E-12	7.80E-12	3.03E-13
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-09**	**-2.10E-09**	**-2.10E-09**	**-2.20E-09**	**-2.00E-09**	**-2.60E-09**	**-2.60E-09**	**-3.00E-09**

Licensee Comments:

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

4Q/14: Revision to estimated demands and run hours to incorporate the results of a recent review and reflect current maintenance strategy. This review did not identify a change >25%, but data was updated so the time period of the estimated data is consistent with the update for the MSPI Residual Heat Removal System.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

1Q/14: Changed PRA Parameter(s). The Monticello Revision 3.1 model was approved October 1st, 2013 with a corresponding MSPI Basis document Revision 4 approved 4/18/2014. The PRA model revision was created to meet the RG 1.200, Rev 2 Standard. As a result of the PRA model change, the CDF, Fussell-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**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	0.000129	0.000252	0.000190	0.000160	0.000114	0.000131	0.000110	0.000094	0.000075	0.000158	0.000139	0.000158
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0.1**	**0.1**	**0.1**

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	0.000136	0.000146	0.000129	0.000125	N/A	0.000124	0.000107	0.000113	0.000104	0.000115	0.000109	0.000195
Technical												

specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments:

6/15: Plant conditions for May 2015 did not meet criteria for Maximum I-131 Activity due to RFO.

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	1.800	1.720	1.720	1.880	1.730	1.760	1.760	1.780	1.760	1.650	1.800	1.750
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.2**	**6.9**	**6.9**	**7.5**	**6.9**	**7.0**	**7.0**	**7.1**	**7.0**	**6.6**	**7.2**	**7.0**
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	1.740	1.770	1.750	1.710	1.520	1.720	1.740	1.810	1.840	1.860	1.840	1.980
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.0**	**7.1**	**7.0**	**6.8**	**6.1**	**6.9**	**7.0**	**7.2**	**7.4**	**7.4**	**7.4**	**7.9**

Licensee Comments: none

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	30.0	92.0	46.0	35.0	21.0	19.0	42.0	44.0
Total opportunities	30.0	92.0	46.0	35.0	23.0	19.0	44.0	44.0
Indicator value	**97.0%**	**97.5%**	**98.0%**	**98.0%**	**98.3%**	**98.3%**	**98.4%**	**98.8%**

Licensee Comments: none

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	155.0	154.0	151.0	144.0	148.0	136.0	129.0	136.0
Total Key personnel	155.0	154.0	151.0	144.0	148.0	136.0	131.0	136.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.5%**	**100.0%**

Licensee Comments: none

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	1376	1377	1319	1482	1270	1377	1479	1376
Total sirens-tests	1378	1378	1320	1484	1272	1378	1484	1378
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.8%**

Licensee Comments:

3Q/14: On September 3, 2014 a regularly scheduled test of the Alert and Noficiation System was only partially performed. The 48 sirens in Sherburne County were all tested successfully. Wright County chose not to test their 58 sirens due to severe weather alerts during the test period. These were considered non-opportunities in accordance with the guidance found in NEI 99-02 Rev. 7.

1Q/14: Alert and Notification System Reliability updated to reflect siren failure in July 2013. No color change.

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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**	**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: March 1, 2016

Monticello

1Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2184.0	2208.0	2209.0	2159.0	1075.2	2208.0	2050.0	2183.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**

Licensee Comments: none

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	2.0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2159.0	1075.2	2208.0	2050.0	2183.0
Indicator value	**1.8**	**3.4**	**3.4**	**1.6**	**1.8**	**0**	**0**	**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	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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Safety System Functional Failures	0	1	0	0	1	0	0	1
Indicator value	**4**	**3**	**1**	**1**	**2**	**1**	**1**	**2**

Licensee Comments:

1Q/16: LER 2015-007, Loss of Residual Heat Removal Capability, reported as a Safety System Functional Failure on January 21, 2016.

2Q/15: LER 2015-002-00, Loss of Shutdown Cooling Due to Improperly Landed Jumper Wire, dated June 29, 2015. This event was submitted to the NRC as a SSFF.

4Q/14: The indicator value for 4Q2013 added one safety system functional failure (LER 2013-007) to correct an omission error. The addition of this safety system functional failure does not change the indicator color.

3Q/14: LER 2014-009 The LER count was not omitted in the 3rd quarter, only the LER number in the comment. The value of the indicator did not change.

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 (ΔCDF)	-5.21E-09	1.54E-08	1.07E-08	9.57E-09	1.06E-08	1.55E-08	1.77E-08	2.65E-08
URI (ΔCDF)	2.36E-07	2.41E-07	2.41E-07	2.40E-07	2.40E-07	2.39E-07	2.08E-07	2.08E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.30E-07**	**2.60E-07**	**2.50E-07**	**2.50E-07**	**2.50E-07**	**2.50E-07**	**2.30E-07**	**2.30E-07**

Licensee Comments:

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

3Q/15: MSPI Emergency AC Power System - 3Q2015: The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The new MSPI coefficients will be updated for 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

1Q/15: The engineering evaluation for the EDG event that occurred late in 4th Quarter 2014 (12/28/14) has been complete. The evaluation determined this event was a MSPI Demand Failure of the 11 EDG (G3A). This constitutes resolution of the incomplete engineering evaluation from last quarter, per NEI 99-02 Rev. 7 Section F 2.2.2. This does not change the MSPI color for the Emergency AC Power Indicator.

4Q/14: Monticello is evaluating an event associated with the EDGs that occurred late in 4th Quarter 2014. The associated engineering evaluation is not yet complete for the 4th quarter 2014 data submittal. Preliminary

determination is no MSPI Failure against the Emergency AC Power indicator. Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2. The engineering evaluation for the EDG event that occurred late in 4th Quarter 2014 (12/28/14) has been complete. The evaluation determined this event was a MSPI Demand Failure of the 11 EDG (G3A). This constitutes resolution of the incomplete engineering evaluation from last quarter, per NEI 99-02 Rev. 7 Section F 2.2.2. This does not change the MSPI color for the Emergency AC Power Indicator. MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

4Q/14: Monticello is evaluating an event associated with the EDGs that occurred late in 4th Quarter 2014. The associated engineering evaluation is not yet complete for the 4th quarter 2014 data submittal. Preliminary determination is no MSPI Failure against the Emergency AC Power indicator. Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2.

3Q/14: MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/14: Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised. MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

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 (ΔCDF)	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08	-5.00E-08	-5.00E-08
URI (ΔCDF)	-7.32E-08	-7.42E-08	-7.52E-08	-7.62E-08	-7.71E-08	-7.80E-08	-9.51E-08	4.79E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.50E-07**	**-2.10E-09**

Licensee Comments:

1Q/16: Monticello is evaluating an event associated with HPCI that occurred late in 1st Quarter 2016. The associated engineering evaluation is not yet complete for the 1st quarter 2016 data submittal. Preliminary determination is a MSPI Run Failure against the High Pressure Injection indicator . This does not result in a color change (remains Green). Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2.

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU)

was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	-2.73E-08	-2.73E-08	-2.75E-08	-2.74E-08	-2.71E-08	-2.71E-08	-4.71E-08	-4.71E-08
URI (ΔCDF)	4.12E-08	4.00E-08	3.88E-08	3.77E-08	3.65E-08	3.54E-08	-7.95E-08	-8.07E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.40E-08**	**1.30E-08**	**1.10E-08**	**1.00E-08**	**9.50E-09**	**8.30E-09**	**-1.30E-07**	**-1.30E-07**

Licensee Comments:

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision to estimated test demands and run hours due to identification of a change > 25%, per NEI 99-02. Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	-3.63E-10	-3.82E-10	-3.82E-10	-3.51E-10	-3.37E-10	-3.32E-10	-1.88E-10	-2.76E-10
URI (ΔCDF)	6.16E-09	6.16E-09	3.57E-09	3.57E-09	3.57E-09	3.57E-09	3.05E-09	3.05E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**5.80E-09**	**5.80E-09**	**3.20E-09**	**3.20E-09**	**3.20E-09**	**3.20E-09**	**2.90E-09**	**2.80E-09**

Licensee Comments:

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

4Q/14: Revision to estimated demands and run hours due to identification of a change > 25% for RHR estimated run hours, per NEI 99-02. Update applied to site MSPI Basis Document and applicable CDE fields. Revised data for 2Q2012, 3Q2012, 1Q2013, 3Q2013 and 4Q2013 to include short duration unavailability and unavailability hours when reactor not critical. This does not affect the MSPI color for any system.

3Q/14: Changed PRA Parameter(s).

2Q/14: Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

2Q/14: Changed PRA Parameter(s). Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Mitigating Systems Performance Index, 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 (ΔCDF)	-2.19E-09	-2.19E-09	-2.22E-09	-2.03E-09	-2.60E-09	-2.65E-09	-3.04E-09	-3.06E-09
URI (ΔCDF)	3.89E-11	3.89E-11	3.98E-11	6.72E-12	7.25E-12	7.80E-12	3.03E-13	3.25E-13
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-09**	**-2.10E-09**	**-2.20E-09**	**-2.00E-09**	**-2.60E-09**	**-2.60E-09**	**-3.00E-09**	**-3.10E-09**

Licensee Comments:

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

4Q/14: Revision to estimated demands and run hours to incorporate the results of a recent review and reflect current maintenance strategy. This review did not identify a change >25%, but data was updated so the time period of the estimated data is consistent with the update for the MSPI Residual Heat Removal System.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s). Revision 3.2 of the Monticello PRA Level 1 Quantification Notebook (PRA-MT-QU) was approved March 31st, 2014 with a corresponding MSPI Basis document Revision 5 approved 7/09/2014. The Rev 3.2 PRA model incorporated the modification/procedure changes required to pin the condensate demineralizer AOVs. As a result of the PRA model change, the CDF, Fussel-Vesely and Basic Event Probabilities for all monitored trains and components were revised.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**
Maximum activity	0.000160	0.000114	0.000131	0.000110	0.000094	0.000075	0.000158	0.000139	0.000158	0.000136	0.000146	0.000129
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.000125	N/A	0.000124	0.000107	0.000113	0.000104	0.000115	0.000109	0.000195	0.000189	0.000215	0.000153
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments:

6/15: Plant conditions for May 2015 did not meet criteria for Maximum I-131 Activity due to RFO.

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	1.880	1.730	1.760	1.760	1.780	1.760	1.650	1.800	1.750	1.740	1.770	1.750
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.5**	**6.9**	**7.0**	**7.0**	**7.1**	**7.0**	**6.6**	**7.2**	**7.0**	**7.0**	**7.1**	**7.0**

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	1.710	1.520	1.720	1.740	1.810	1.840	1.860	1.840	1.980	1.810	1.830	1.840
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.8**	**6.1**	**6.9**	**7.0**	**7.2**	**7.4**	**7.4**	**7.4**	**7.9**	**7.2**	**7.3**	**7.4**

Licensee Comments: none

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	92.0	46.0	35.0	21.0	19.0	42.0	44.0	52.0
Total opportunities	92.0	46.0	35.0	23.0	19.0	44.0	44.0	55.0
Indicator value	**97.5%**	**98.0%**	**98.0%**	**98.3%**	**98.3%**	**98.4%**	**98.8%**	**98.0%**

Licensee Comments: none

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	154.0	151.0	144.0	148.0	136.0	129.0	136.0	133.0
Total Key personnel	154.0	151.0	144.0	148.0	136.0	131.0	136.0	133.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.5%**	**100.0%**	**100.0%**

Licensee Comments: none

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	1377	1319	1482	1270	1377	1479	1376	1378
Total sirens-tests	1378	1320	1484	1272	1378	1484	1378	1378
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.8%**	**99.9%**

Licensee Comments:

3Q/14: On September 3, 2014 a regularly scheduled test of the Alert and Noficiation System was only partially performed. The 48 sirens in Sherburne County were all tested successfully. Wright County chose not to test their 58 sirens due to severe weather alerts during the test period. These were considered non-opportunities in accordance with the guidance found in NEI 99-02 Rev. 7.

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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**	**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, 2016

Monticello

2Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	2159.0	1075.2	2208.0	2050.0	2183.0	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.8**

Licensee Comments: none

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	2.0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	1075.2	2208.0	2050.0	2183.0	2184.0
Indicator value	**3.4**	**3.4**	**1.6**	**1.8**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Safety System Functional Failures	1	0	0	1	0	0	1	1
Indicator value	**3**	**1**	**1**	**2**	**1**	**1**	**2**	**2**

Licensee Comments:

2Q/16: LER 2016-001, High Pressure Coolant Injection System Cracked Pipe Nipple Caused Oil Leak, dated May 18, 2016. This does not change the color of this indicator.

1Q/16: LER 2015-007, Loss of Residual Heat Removal Capability, reported as a Safety System Functional Failure on January 21, 2016.

2Q/15: LER 2015-002-00, Loss of Shutdown Cooling Due to Improperly Landed Jumper Wire, dated June 29, 2015. This event was submitted to the NRC as a SSFF.

4Q/14: The indicator value for 4Q2013 added one safety system functional failure (LER 2013-007) to correct an omission error. The addition of this safety system functional failure does not change the indicator color.

3Q/14: LER 2014-009 The LER count was not omitted in the 3rd quarter, only the LER number in the comment. The value of the indicator did not change.

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 (ΔCDF)	1.54E-08	1.07E-08	9.57E-09	1.06E-08	1.55E-08	1.77E-08	2.65E-08	2.63E-08
URI (ΔCDF)	2.41E-07	2.41E-07	2.40E-07	2.40E-07	2.39E-07	2.08E-07	2.08E-07	2.08E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.60E-07**	**2.50E-07**	**2.50E-07**	**2.50E-07**	**2.50E-07**	**2.30E-07**	**2.30E-07**	**2.30E-07**

Licensee Comments:

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

3Q/15: MSPI Emergency AC Power System - 3Q2015: The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The new MSPI coefficients will be updated for 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

1Q/15: The engineering evaluation for the EDG event that occurred late in 4th Quarter 2014 (12/28/14) has been complete. The evaluation determined this event was a MSPI Demand Failure of the 11 EDG (G3A). This constitutes resolution of the incomplete engineering evaluation from last quarter, per NEI 99-02 Rev. 7 Section F 2.2.2. This does not change the MSPI color for the Emergency AC Power Indicator.

4Q/14: Monticello is evaluating an event associated with the EDGs that occurred late in 4th Quarter 2014. The associated engineering evaluation is not yet complete for the 4th quarter 2014 data submittal. Preliminary

determination is no MSPI Failure against the Emergency AC Power indicator. Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2. The engineering evaluation for the EDG event that occurred late in 4th Quarter 2014 (12/28/14) has been complete. The evaluation determined this event was a MSPI Demand Failure of the 11 EDG (G3A). This constitutes resolution of the incomplete engineering evaluation from last quarter, per NEI 99-02 Rev. 7 Section F 2.2.2. This does not change the MSPI color for the Emergency AC Power Indicator. MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

4Q/14: Monticello is evaluating an event associated with the EDGs that occurred late in 4th Quarter 2014. The associated engineering evaluation is not yet complete for the 4th quarter 2014 data submittal. Preliminary determination is no MSPI Failure against the Emergency AC Power indicator. Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2.

3Q/14: MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

3Q/14: Changed PRA Parameter(s).

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 (ΔCDF)	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08	-5.00E-08	-5.00E-08	-5.00E-08
URI (ΔCDF)	-7.42E-08	-7.52E-08	-7.62E-08	-7.71E-08	-7.80E-08	-9.51E-08	4.79E-08	4.68E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.50E-07**	**-2.10E-09**	**-3.20E-09**

Licensee Comments:

2Q/16: The engineering evaluation for the HPCI event that occurred in 1Q2016 (3/22/16) has been complete. The evaluation determined this event was a MSPI Run Failure against the High Pressure Injection indicator. The MSPI unavailability hours for the HPCI in the 1Q2016 submittal included the HPCI event and accurately reflect the total unavailability. This constitutes resolution of the incomplete engineering evaluation from 1Q2016. This does not change the MSPI color for the High Pressure Injection indicator.

1Q/16: Monticello is evaluating an event associated with HPCI that occurred late in 1st Quarter 2016. The associated engineering evaluation is not yet complete for the 1st quarter 2016 data submittal. Preliminary determination is a MSPI Run Failure against the High Pressure Injection indicator . This does not result in a color change (remains Green). Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2. The engineering evaluation for the HPCI event that occurred in 1Q2016 (3/22/16) has been complete. The evaluation determined this event was a MSPI Run Failure against the High Pressure Injection indicator. The MSPI unavailability hours for the HPCI in the 1Q2016 submittal included the HPCI event and accurately reflect the total unavailability. This constitutes resolution of the incomplete engineering evaluation from 1Q2016. This does not change the MSPI color for the High Pressure Injection indicator.

1Q/16: Monticello is evaluating an event associated with HPCI that occurred late in 1st Quarter 2016. The associated engineering evaluation is not yet complete for the 1st quarter 2016 data submittal. Preliminary determination is a MSPI Run Failure against the High Pressure Injection indicator . This does not result in a color change (remains Green). Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2.

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

3Q/14: Changed PRA Parameter(s).

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 (ΔCDF)	-2.73E-08	-2.75E-08	-2.74E-08	-2.71E-08	-2.71E-08	-4.71E-08	-4.71E-08	-4.71E-08
URI (ΔCDF)	4.00E-08	3.88E-08	3.77E-08	3.65E-08	3.54E-08	-7.95E-08	-8.07E-08	-8.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.30E-08**	**1.10E-08**	**1.00E-08**	**9.50E-09**	**8.30E-09**	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**

Licensee Comments:

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

3Q/14: Changed PRA Parameter(s).

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 (ΔCDF)	-3.82E-10	-3.82E-10	-3.51E-10	-3.37E-10	-3.32E-10	-1.88E-10	-2.76E-10	-2.43E-10
URI (ΔCDF)	6.16E-09	3.57E-09	3.57E-09	3.57E-09	3.57E-09	3.05E-09	3.05E-09	3.05E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**5.80E-09**	**3.20E-09**	**3.20E-09**	**3.20E-09**	**3.20E-09**	**2.90E-09**	**2.80E-09**	**2.80E-09**

Licensee Comments:

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

4Q/14: Revision to estimated demands and run hours due to identification of a change > 25% for RHR estimated run hours, per NEI 99-02. Update applied to site MSPI Basis Document and applicable CDE fields. Revised data for 2Q2012, 3Q2012, 1Q2013, 3Q2013 and 4Q2013 to include short duration unavailability and unavailability hours when reactor not critical. This does not affect the MSPI color for any system.

3Q/14: Changed PRA Parameter(s).

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 (ΔCDF)	-2.19E-09	-2.22E-09	-2.03E-09	-2.60E-09	-2.65E-09	-3.04E-09	-3.06E-09	-3.06E-09
URI (ΔCDF)	3.89E-11	3.98E-11	6.72E-12	7.25E-12	7.80E-12	3.03E-13	3.25E-13	3.47E-13
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-09**	**-2.20E-09**	**-2.00E-09**	**-2.60E-09**	**-2.60E-09**	**-3.00E-09**	**-3.10E-09**	**-3.10E-09**

Licensee Comments:

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

4Q/14: Revision to estimated demands and run hours to incorporate the results of a recent review and reflect current maintenance strategy. This review did not identify a change >25%, but data was updated so the time period of the estimated data is consistent with the update for the MSPI Residual Heat Removal System.

3Q/14: Changed PRA Parameter(s).

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	0.000110	0.000094	0.000075	0.000158	0.000139	0.000158	0.000136	0.000146	0.000129	0.000125	N/A	0.000124
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**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	0.000107	0.000113	0.000104	0.000115	0.000109	0.000195	0.000189	0.000215	0.000153	0.000128	0.000286	0.000149
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments:

6/15: Plant conditions for May 2015 did not meet criteria for Maximum I-131 Activity due to RFO.

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	1.760	1.780	1.760	1.650	1.800	1.750	1.740	1.770	1.750	1.710	1.520	1.720
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.0**	**7.1**	**7.0**	**6.6**	**7.2**	**7.0**	**7.0**	**7.1**	**7.0**	**6.8**	**6.1**	**6.9**
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	1.740	1.810	1.840	1.860	1.840	1.980	1.810	1.830	1.840	1.770	1.820	1.860
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.0**	**7.2**	**7.4**	**7.4**	**7.4**	**7.9**	**7.2**	**7.3**	**7.4**	**7.1**	**7.3**	**7.4**

Licensee Comments: none

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	46.0	35.0	21.0	19.0	42.0	44.0	52.0	65.0
Total opportunities	46.0	35.0	23.0	19.0	44.0	44.0	55.0	66.0
Indicator value	**98.0%**	**98.0%**	**98.3%**	**98.3%**	**98.4%**	**98.8%**	**98.0%**	**97.6%**

Licensee Comments: none

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	151.0	144.0	148.0	136.0	129.0	136.0	133.0	123.0
Total Key personnel	151.0	144.0	148.0	136.0	131.0	136.0	133.0	125.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.5%**	**100.0%**	**100.0%**	**98.4%**

Licensee Comments: none

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	1319	1482	1270	1377	1479	1376	1378	1377
Total sirens-tests	1320	1484	1272	1378	1484	1378	1378	1378
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.8%**	**99.9%**	**99.9%**

Licensee Comments:

3Q/14: On September 3, 2014 a regularly scheduled test of the Alert and Noficiation System was only partially performed. The 48 sirens in Sherburne County were all tested successfully. Wright County chose not to test their 58 sirens due to severe weather alerts during the test period. These were considered non-opportunities in accordance with the guidance found in NEI 99-02 Rev. 7.

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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**	**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 25, 2016

Monticello

3Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2209.0	2159.0	1075.2	2208.0	2050.0	2183.0	2184.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.8**	**0.8**

Licensee Comments: none

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	1.0
Critical hours	2209.0	2159.0	1075.2	2208.0	2050.0	2183.0	2184.0	2208.0
Indicator value	**3.4**	**1.6**	**1.8**	**0**	**0**	**0**	**0**	**0.8**

Licensee Comments: none

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	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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Safety System Functional Failures	0	0	1	0	0	1	1	0
Indicator value	**1**	**1**	**2**	**1**	**1**	**2**	**2**	**2**

Licensee Comments:

2Q/16: LER 2016-001, High Pressure Coolant Injection System Cracked Pipe Nipple Caused Oil Leak, dated May 18, 2016. This does not change the color of this indicator.

1Q/16: LER 2015-007, Loss of Residual Heat Removal Capability, reported as a Safety System Functional Failure on January 21, 2016.

2Q/15: LER 2015-002-00, Loss of Shutdown Cooling Due to Improperly Landed Jumper Wire, dated June 29, 2015. This event was submitted to the NRC as a SSFF.

4Q/14: The indicator value for 4Q2013 added one safety system functional failure (LER 2013-007) to correct an omission error. The addition of this safety system functional failure does not change the indicator color.

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 (ΔCDF)	1.07E-08	9.57E-09	1.06E-08	1.55E-08	1.77E-08	2.65E-08	2.63E-08	4.97E-08
URI (ΔCDF)	2.41E-07	2.40E-07	2.40E-07	2.39E-07	2.08E-07	2.08E-07	2.08E-07	2.08E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.50E-07**	**2.50E-07**	**2.50E-07**	**2.50E-07**	**2.30E-07**	**2.30E-07**	**2.30E-07**	**2.60E-07**

Licensee Comments:

3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

3Q/15: MSPI Emergency AC Power System - 3Q2015: The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The new MSPI coefficients will be updated for 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

1Q/15: The engineering evaluation for the EDG event that occurred late in 4th Quarter 2014 (12/28/14) has been complete. The evaluation determined this event was a MSPI Demand Failure of the 11 EDG (G3A). This constitutes resolution of the incomplete engineering evaluation from last quarter, per NEI 99-02 Rev. 7 Section F 2.2.2. This does not change the MSPI color for the Emergency AC Power Indicator.

4Q/14: Monticello is evaluating an event associated with the EDGs that occurred late in 4th Quarter 2014. The associated engineering evaluation is not yet complete for the 4th quarter 2014 data submittal. Preliminary determination is no MSPI Failure against the Emergency AC Power indicator. Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2. The engineering evaluation for the EDG event that occurred late in 4th Quarter 2014 (12/28/14) has been complete. The evaluation determined this event was a MSPI Demand Failure of the 11 EDG (G3A). This constitutes resolution of the incomplete engineering evaluation from last quarter, per NEI 99-02 Rev. 7 Section F 2.2.2. This does not change the MSPI color for the Emergency AC Power Indicator. MSPI Emergency AC Power unavailability hours values have been revised for these previously reported periods: 1Q2012, 2Q2012, 3Q2012, 4Q2012, 1Q2013, 2Q2013, 3Q2013, 4Q2013, 1Q2014, 2Q2014, 3Q2014, 4Q2014. This does not change the MSPI color. Extent of condition review from the EDG engineering evaluation identified multiple instances from January 2012 through December 2014 where unavailability hours were not documented per NEI 99-02. All instances corrected.

4Q/14: Monticello is evaluating an event associated with the EDGs that occurred late in 4th Quarter 2014. The associated engineering evaluation is not yet complete for the 4th quarter 2014 data submittal. Preliminary determination is no MSPI Failure against the Emergency AC Power indicator. Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2.

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 (ΔCDF)	-4.33E-08	-4.33E-08	-4.33E-08	-4.33E-08	-5.00E-08	-5.00E-08	-5.00E-08	-5.00E-08

URI (ΔCDF)	-7.52E-08	-7.62E-08	-7.71E-08	-7.80E-08	-9.51E-08	4.79E-08	4.68E-08	4.57E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.50E-07**	**-2.10E-09**	**-3.20E-09**	**-4.20E-09**

Licensee Comments:

3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.

2Q/16: The engineering evaluation for the HPCI event that occurred in 1Q2016 (3/22/16) has been complete. The evaluation determined this event was a MSPI Run Failure against the High Pressure Injection indicator. The MSPI unavailability hours for the HPCI in the 1Q2016 submittal included the HPCI event and accurately reflect the total unavailability. This constitutes resolution of the incomplete engineering evaluation from 1Q2016. This does not change the MSPI color for the High Pressure Injection indicator.

1Q/16: Monticello is evaluating an event associated with HPCI that occurred late in 1st Quarter 2016. The associated engineering evaluation is not yet complete for the 1st quarter 2016 data submittal. Preliminary determination is a MSPI Run Failure against the High Pressure Injection indicator . This does not result in a color change (remains Green). Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2. The engineering evaluation for the HPCI event that occurred in 1Q2016 (3/22/16) has been complete. The evaluation determined this event was a MSPI Run Failure against the High Pressure Injection indicator. The MSPI unavailability hours for the HPCI in the 1Q2016 submittal included the HPCI event and accurately reflect the total unavailability. This constitutes resolution of the incomplete engineering evaluation from 1Q2016. This does not change the MSPI color for the High Pressure Injection indicator.

1Q/16: Monticello is evaluating an event associated with HPCI that occurred late in 1st Quarter 2016. The associated engineering evaluation is not yet complete for the 1st quarter 2016 data submittal. Preliminary determination is a MSPI Run Failure against the High Pressure Injection indicator . This does not result in a color change (remains Green). Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2.

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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 (ΔCDF)	-2.75E-08	-2.74E-08	-2.71E-08	-2.71E-08	-4.71E-08	-4.71E-08	-4.71E-08	-4.71E-08
URI (ΔCDF)	3.88E-08	3.77E-08	3.65E-08	3.54E-08	-7.95E-08	-8.07E-08	-8.20E-08	-8.32E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-08**	**1.00E-08**	**9.50E-09**	**8.30E-09**	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**

Licensee Comments:

3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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 (ΔCDF)	-3.82E-10	-3.51E-10	-3.37E-10	-3.32E-10	-1.88E-10	-2.76E-10	-2.43E-10	-2.65E-10
URI (ΔCDF)	3.57E-09	3.57E-09	3.57E-09	3.57E-09	3.05E-09	3.05E-09	3.05E-09	8.80E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.20E-09**	**3.20E-09**	**3.20E-09**	**3.20E-09**	**2.90E-09**	**2.80E-09**	**2.80E-09**	**6.20E-10**

Licensee Comments:

3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

4Q/14: Revision to estimated demands and run hours due to identification of a change > 25% for RHR estimated run hours, per NEI 99-02. Update applied to site MSPI Basis Document and applicable CDE fields. Revised data for 2Q2012, 3Q2012, 1Q2013, 3Q2013 and 4Q2013 to include short duration unavailability and unavailability hours when reactor not critical. This does not affect the MSPI color for any system.

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 (ΔCDF)	-2.22E-09	-2.03E-09	-2.60E-09	-2.65E-09	-3.04E-09	-3.06E-09	-3.06E-09	-3.06E-09
URI (ΔCDF)	3.98E-11	6.72E-12	7.25E-12	7.80E-12	3.03E-13	3.25E-13	3.47E-13	3.70E-13
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.20E-09**	**-2.00E-09**	**-2.60E-09**	**-2.60E-09**	**-3.00E-09**	**-3.10E-09**	**-3.10E-09**	**-3.10E-09**

Licensee Comments:

3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

4Q/14: Revision to estimated demands and run hours to incorporate the results of a recent review and reflect current maintenance strategy. This review did not identify a change >25%, but data was updated so the time period of the estimated data is consistent with the update for the MSPI Residual Heat Removal System.

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	0.000158	0.000139	0.000158	0.000136	0.000146	0.000129	0.000125	N/A	0.000124	0.000107	0.000113	0.000104
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**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	0.000115	0.000109	0.000195	0.000189	0.000215	0.000153	0.000128	0.000286	0.000149	0.000161	0.000141	0.000125
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments:

6/15: Plant conditions for May 2015 did not meet criteria for Maximum I-131 Activity due to RFO.

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	1.650	1.800	1.750	1.740	1.770	1.750	1.710	1.520	1.720	1.740	1.810	1.840
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.6**	**7.2**	**7.0**	**7.0**	**7.1**	**7.0**	**6.8**	**6.1**	**6.9**	**7.0**	**7.2**	**7.4**
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	1.860	1.840	1.980	1.810	1.830	1.840	1.770	1.820	1.860	1.860	1.890	1.830
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.4**	**7.4**	**7.9**	**7.2**	**7.3**	**7.4**	**7.1**	**7.3**	**7.4**	**7.4**	**7.6**	**7.3**

Licensee Comments: none

Notes

Drill/Exercise Performance	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful opportunities	35.0	21.0	19.0	42.0	43.0	52.0	65.0	52.0
Total opportunities	35.0	23.0	19.0	44.0	44.0	55.0	66.0	54.0
Indicator value	**98.0%**	**98.3%**	**98.3%**	**98.4%**	**98.5%**	**97.8%**	**97.3%**	**96.8%**

Licensee Comments:

4Q/15: There is a correction to the Drill / Exercise Performance indicator for November 2015. A retroactive failure was identified during a site self-assessment. This resulted in a change to the KPI from 14 out of 14 to the corrected results of 13 out of 14. Indicator color did not change as a result and remains green.

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	144.0	148.0	136.0	129.0	136.0	133.0	123.0	121.0
Total Key personnel	144.0	148.0	136.0	131.0	136.0	133.0	125.0	121.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**98.5%**	**100.0%**	**100.0%**	**98.4%**	**100.0%**

Licensee Comments: none

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	1482	1270	1377	1479	1376	1378	1377	1377
Total sirens-tests	1484	1272	1378	1484	1378	1378	1378	1378
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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**	**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: October 23, 2016

Monticello

4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2159.0	1075.2	2208.0	2050.0	2183.0	2184.0	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0.9**	**0.9**	**0.8**	**0.8**	**0**

Licensee Comments: none

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	1.0	0
Critical hours	2159.0	1075.2	2208.0	2050.0	2183.0	2184.0	2208.0	2209.0
Indicator value	**1.6**	**1.8**	**0**	**0**	**0**	**0**	**0.8**	**0.8**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Scrams with complications	0	0	0	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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Safety System Functional Failures	0	1	0	0	1	1	0	0
Indicator value	**1**	**2**	**1**	**1**	**2**	**2**	**2**	**2**

Licensee Comments:

2Q/16: LER 2016-001, High Pressure Coolant Injection System Cracked Pipe Nipple Caused Oil Leak, dated May 18, 2016. This does not change the color of this indicator.

1Q/16: LER 2015-007, Loss of Residual Heat Removal Capability, reported as a Safety System Functional Failure on January 21, 2016.

2Q/15: LER 2015-002-00, Loss of Shutdown Cooling Due to Improperly Landed Jumper Wire, dated June 29, 2015. This event was submitted to the NRC as a SSFF.

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 (ΔCDF)	9.57E-09	1.06E-08	1.55E-08	1.77E-08	2.65E-08	2.63E-08	4.97E-08	7.78E-08
URI (ΔCDF)	2.40E-07	2.40E-07	2.39E-07	2.08E-07	2.08E-07	2.08E-07	2.08E-07	2.21E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.50E-07**	**2.50E-07**	**2.50E-07**	**2.30E-07**	**2.30E-07**	**2.30E-07**	**2.60E-07**	**3.00E-07**

Licensee Comments:

3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

3Q/15: MSPI Emergency AC Power System - 3Q2015: The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The new MSPI coefficients will be updated for 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

1Q/15: The engineering evaluation for the EDG event that occurred late in 4th Quarter 2014 (12/28/14) has been complete. The evaluation determined this event was a MSPI Demand Failure of the 11 EDG (G3A). This constitutes resolution of the incomplete engineering evaluation from last quarter, per NEI 99-02 Rev. 7 Section F 2.2.2. This does not change the MSPI color for the Emergency AC Power Indicator.

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 (ΔCDF)	-4.33E-08	-4.33E-08	-4.33E-08	-5.00E-08	-5.00E-08	-5.00E-08	-5.00E-08	-1.87E-08
URI (ΔCDF)	-7.62E-08	-7.71E-08	-7.80E-08	-9.51E-08	4.79E-08	4.68E-08	4.57E-08	3.19E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-07**	**-1.20E-07**	**-1.20E-07**	**-1.50E-07**	**-2.10E-09**	**-3.20E-09**	**-4.20E-09**	**3.00E-07**

Licensee Comments:

4Q/16: 4Q2016 MSPI High Pressure Injection System - MSPI Start/Demand Failure taken in November 2016 on the HPCI System due to water in the turbine. This does not result in a color change (remains Green).

3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.

2Q/16: The engineering evaluation for the HPCI event that occurred in 1Q2016 (3/22/16) has been complete. The evaluation determined this event was a MSPI Run Failure against the High Pressure Injection indicator. The MSPI unavailability hours for the HPCI in the 1Q2016 submittal included the HPCI event and accurately reflect the

total unavailability. This constitutes resolution of the incomplete engineering evaluation from 1Q2016. This does not change the MSPI color for the High Pressure Injection indicator.

1Q/16: Monticello is evaluating an event associated with HPCI that occurred late in 1st Quarter 2016. The associated engineering evaluation is not yet complete for the 1st quarter 2016 data submittal. Preliminary determination is a MSPI Run Failure against the High Pressure Injection indicator . This does not result in a color change (remains Green). Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2.

1Q/16: Monticello is evaluating an event associated with HPCI that occurred late in 1st Quarter 2016. The associated engineering evaluation is not yet complete for the 1st quarter 2016 data submittal. Preliminary determination is a MSPI Run Failure against the High Pressure Injection indicator . This does not result in a color change (remains Green). Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2. The engineering evaluation for the HPCI event that occurred in 1Q2016 (3/22/16) has been complete. The evaluation determined this event was a MSPI Run Failure against the High Pressure Injection indicator. The MSPI unavailability hours for the HPCI in the 1Q2016 submittal included the HPCI event and accurately reflect the total unavailability. This constitutes resolution of the incomplete engineering evaluation from 1Q2016. This does not change the MSPI color for the High Pressure Injection indicator.

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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 (ΔCDF)	-2.74E-08	-2.71E-08	-2.71E-08	-4.71E-08	-4.71E-08	-4.71E-08	-4.71E-08	-5.01E-08
URI (ΔCDF)	3.77E-08	3.65E-08	3.54E-08	-7.95E-08	-8.07E-08	-8.20E-08	-8.32E-08	-8.99E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.00E-08**	**9.50E-09**	**8.30E-09**	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**	**-1.40E-07**

Licensee Comments:

3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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 (ΔCDF)	-3.51E-10	-3.37E-10	-3.32E-10	-1.88E-10	-2.76E-10	-2.43E-10	-2.65E-10	-2.82E-10
URI (ΔCDF)	3.57E-09	3.57E-09	3.57E-09	3.05E-09	3.05E-09	3.05E-09	8.80E-10	9.46E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.20E-09**	**3.20E-09**	**3.20E-09**	**2.90E-09**	**2.80E-09**	**2.80E-09**	**6.20E-10**	**6.60E-10**

Licensee Comments:

3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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 (ΔCDF)	-2.03E-09	-2.60E-09	-2.65E-09	-3.04E-09	-3.06E-09	-3.06E-09	-3.06E-09	-3.25E-09

URI (ΔCDF)	6.72E-12	7.25E-12	7.80E-12	3.03E-13	3.25E-13	3.47E-13	3.70E-13	-1.07E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.00E-09**	**-2.60E-09**	**-2.60E-09**	**-3.00E-09**	**-3.10E-09**	**-3.10E-09**	**-3.10E-09**	**-3.30E-09**

Licensee Comments:

3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.

4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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	0.000136	0.000146	0.000129	0.000125	N/A	0.000124	0.000107	0.000113	0.000104	0.000115	0.000109	0.000195
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**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	0.000189	0.000215	0.000153	0.000128	0.000286	0.000149	0.000161	0.000141	0.000125	0.000190	0.000142	0.000113
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments:

6/15: Plant conditions for May 2015 did not meet criteria for Maximum I-131 Activity due to RFO.

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	1.740	1.770	1.750	1.710	1.520	1.720	1.740	1.810	1.840	1.860	1.840	1.980

Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.0**	**7.1**	**7.0**	**6.8**	**6.1**	**6.9**	**7.0**	**7.2**	**7.4**	**7.4**	**7.4**	**7.9**
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	1.810	1.830	1.840	1.770	1.820	1.860	1.860	1.890	1.830	1.750	1.870	1.840
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.2**	**7.3**	**7.4**	**7.1**	**7.3**	**7.4**	**7.4**	**7.6**	**7.3**	**7.0**	**7.5**	**7.4**

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	21.0	19.0	42.0	43.0	52.0	65.0	52.0	31.0
Total opportunities	23.0	19.0	44.0	44.0	55.0	66.0	54.0	31.0
Indicator value	**98.3%**	**98.3%**	**98.4%**	**98.5%**	**97.8%**	**97.3%**	**96.8%**	**96.7%**

Licensee Comments:

4Q/15: There is a correction to the Drill / Exercise Performance indicator for November 2015. A retroactive failure was identified during a site self-assessment. This resulted in a change to the KPI from 14 out of 14 to the corrected results of 13 out of 14. Indicator color did not change as a result and remains green.

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	148.0	136.0	129.0	136.0	133.0	123.0	121.0	124.0
Total Key personnel	148.0	136.0	131.0	136.0	133.0	125.0	121.0	124.0
Indicator value	**100.0%**	**100.0%**	**98.5%**	**100.0%**	**100.0%**	**98.4%**	**100.0%**	**100.0%**

Licensee Comments: none

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	1270	1377	1479	1376	1378	1377	1377	1378
Total sirens-tests	1272	1378	1484	1378	1378	1378	1378	1378
Indicator value	**99.9%**	**99.9%**	**99.8%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**

Licensee Comments: none

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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**	**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: January 24, 2017

United States Nuclear Regulatory Commission
Protecting People and the Environment

Monticello – 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	0	0	1.0	0	0	0	0	0
Critical hours	1075.2	2208.0	2050.0	2183.0	2184.0	2208.0	2209.0	2159.0
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.8**	**0.8**	**0**	**0**

TOP

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	1.0	0	0
Critical hours	1075.2	2208.0	2050.0	2183.0	2184.0	2208.0	2209.0	2159.0
Indicator value	**1.8**	**0**	**0**	**0**	**0**	**0.8**	**0.8**	**0.8**

TOP

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Scrams with complications	0	0	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**

TOP

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Safety System Functional Failures	1	0	0	1	1	0	0	1
Indicator value	**2**	**1**	**1**	**2**	**2**	**2**	**2**	**2**

TOP

Licensee Comments:
1Q/17: LER 2016-003, HPCI Declared Inoperable Due to Excessive Water Level in Turbine
2Q/16: LER 2016-001, High Pressure Coolant Injection System Cracked Pipe Nipple Caused Oil Leak, dated May 18, 2016. This does not change the color of this indicator.
1Q/16: LER 2015-007, Loss of Residual Heat Removal Capability, reported as a Safety System Functional Failure on January 21, 2016.
2Q/15: LER 2015-002-00, Loss of Shutdown Cooling Due to Improperly Landed Jumper Wire, dated June 29, 2015. This event was submitted to the NRC as a SSFF.

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 (ΔCDF)	1.06E-08	1.55E-08	1.77E-08	2.65E-08	2.63E-08	4.97E-08	7.78E-08	1.09E-07
URI (ΔCDF)	2.40E-07	2.39E-07	2.08E-07	2.08E-07	2.08E-07	2.08E-07	2.21E-07	2.21E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.50E-07**	**2.50E-07**	**2.30E-07**	**2.30E-07**	**2.30E-07**	**2.60E-07**	**3.00E-07**	**3.30E-07**

TOP

Licensee Comments:
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.
4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.
3Q/15: MSPI Emergency AC Power System - 3Q2015: The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The new MSPI coefficients will be updated for 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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 (ΔCDF)	-4.33E-08	-4.33E-08	-5.00E-08	-5.00E-08	-5.00E-08	-5.00E-08	-1.87E-08	-1.47E-08
URI (ΔCDF)	-7.71E-08	-7.80E-08	-9.51E-08	4.79E-08	4.68E-08	4.57E-08	3.19E-07	3.19E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-07**	**-1.20E-07**	**-1.50E-07**	**-2.10E-09**	**-3.20E-09**	**-4.20E-09**	**3.00E-07**	**3.00E-07**

TOP

Licensee Comments:
4Q/16: 4Q2016 MSPI High Pressure Injection System - MSPI Start/Demand Failure taken in November 2016 on the HPCI System due to water in the turbine. This does not result in a color change (remains Green).
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.
2Q/16: The engineering evaluation for the HPCI event that occurred in 1Q2016 (3/22/16) has been complete. The evaluation determined this event was a MSPI Run Failure against the High Pressure Injection indicator. The MSPI unavailability hours for the HPCI in the 1Q2016 submittal included the HPCI event and accurately reflect the total unavailability. This constitutes resolution of the incomplete engineering evaluation from 1Q2016. This does not change the MSPI color for the High Pressure Injection indicator.
1Q/16: Monticello is evaluating an event associated with HPCI that occurred late in 1st Quarter 2016. The associated engineering evaluation is not yet complete for the 1st quarter 2016 data submittal. Preliminary determination is a MSPI Run Failure against the High Pressure Injection indicator . This does not result in a color change (remains Green). Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2.
1Q/16: Monticello is evaluating an event associated with HPCI that occurred late in 1st Quarter 2016. The associated engineering evaluation is not yet complete for the 1st quarter 2016 data submittal. Preliminary determination is a MSPI Run Failure against the High Pressure Injection indicator . This does not result in a color change (remains Green). Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2. The engineering evaluation for the HPCI event that occurred in 1Q2016 (3/22/16) has been complete. The evaluation determined this event was a MSPI Run Failure against the High Pressure Injection indicator. The MSPI unavailability hours for the HPCI in the 1Q2016 submittal included the HPCI event and accurately reflect the total unavailability. This

constitutes resolution of the incomplete engineering evaluation from 1Q2016. This does not change the MSPI color for the High Pressure Injection indicator.
4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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 (ΔCDF)	-2.71E-08	-2.71E-08	-4.71E-08	-4.71E-08	-4.71E-08	-4.71E-08	-5.01E-08	-5.01E-08
URI (ΔCDF)	3.65E-08	3.54E-08	-7.95E-08	-8.07E-08	-8.20E-08	-8.32E-08	-8.99E-08	-9.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.50E-09**	**8.30E-09**	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**	**-1.40E-07**	**-1.40E-07**

TOP

Licensee Comments:
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.
4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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 (ΔCDF)	-3.37E-10	-3.32E-10	-1.88E-10	-2.76E-10	-2.43E-10	-2.65E-10	-2.82E-10	-4.06E-10
URI (ΔCDF)	3.57E-09	3.57E-09	3.05E-09	3.05E-09	3.05E-09	8.80E-10	9.46E-10	9.54E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.20E-09**	**3.20E-09**	**2.90E-09**	**2.80E-09**	**2.80E-09**	**6.20E-10**	**6.60E-10**	**5.50E-10**

TOP

Licensee Comments:
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.
4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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 (ΔCDF)	-2.60E-09	-2.65E-09	-3.04E-09	-3.06E-09	-3.06E-09	-3.06E-09	-3.25E-09	-3.25E-09
URI (ΔCDF)	7.25E-12	7.80E-12	3.03E-13	3.25E-13	3.47E-13	3.70E-13	-1.07E-12	-1.06E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.60E-09**	**-2.60E-09**	**-3.00E-09**	**-3.10E-09**	**-3.10E-09**	**-3.10E-09**	**-3.30E-09**	**-3.30E-09**

TOP

Licensee Comments:
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.
4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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	0.000125	N/A	0.000124	0.000107	0.000113	0.000104	0.000115	0.000109	0.000195	0.000189	0.000215	0.000153
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**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	0.000128	0.000286	0.000149	0.000161	0.000141	0.000125	0.000190	0.000142	0.000113	0.000111	0.000055	0.000063
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**

TOP

Licensee Comments:
6/15: Plant conditions for May 2015 did not meet criteria for Maximum I-131 Activity due to RFO.

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	1.710	1.520	1.720	1.740	1.810	1.840	1.860	1.840	1.980	1.810	1.830	1.840
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**6.8**	**6.1**	**6.9**	**7.0**	**7.2**	**7.4**	**7.4**	**7.4**	**7.9**	**7.2**	**7.3**	**7.4**

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	1.770	1.820	1.860	1.860	1.890	1.830	1.750	1.870	1.840	1.820	1.780	1.710
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.1**	**7.3**	**7.4**	**7.4**	**7.6**	**7.3**	**7.0**	**7.5**	**7.4**	**7.3**	**7.1**	**6.8**

TOP

Licensee Comments: none

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	19.0	42.0	43.0	52.0	65.0	52.0	31.0	44.0
Total opportunities	19.0	44.0	44.0	55.0	66.0	54.0	31.0	44.0
Indicator value	**98.3%**	**98.4%**	**98.5%**	**97.8%**	**97.3%**	**96.8%**	**96.7%**	**97.5%**

TOP

Licensee Comments:
4Q/15: There is a correction to the Drill / Exercise Performance indicator for November 2015. A retroactive failure was identified during a site self-assessment. This resulted in a change to the KPI from 14 out of 14 to the corrected results of 13 out of 14. Indicator color did not change as a result and remains green.

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	136.0	129.0	136.0	133.0	123.0	121.0	124.0	124.0
Total Key personnel	136.0	131.0	136.0	133.0	125.0	121.0	124.0	124.0
Indicator value	**100.0%**	**98.5%**	**100.0%**	**100.0%**	**98.4%**	**100.0%**	**100.0%**	**100.0%**

TOP

Licensee Comments: none

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	1377	1479	1376	1378	1377	1377	1378	1371
Total sirens-tests	1378	1484	1378	1378	1378	1378	1378	1378
Indicator value	**99.9%**	**99.8%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**99.8%**

TOP

Licensee Comments: none

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

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

United States Nuclear Regulatory Commission
Protecting People and the Environment

Monticello – 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)
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- Residual Heat Removal Systems (MS09)
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- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2208.0	2050.0	2183.0	2184.0	2208.0	2209.0	2159.0	1504.0
Indicator value	**0**	**0.9**	**0.9**	**0.8**	**0.8**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2208.0	2050.0	2183.0	2184.0	2208.0	2209.0	2159.0	1504.0
Indicator value	**0**	**0**	**0**	**0**	**0.8**	**0.8**	**0.8**	**0.9**

TOP

Licensee Comments: none

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	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**

TOP

Licensee Comments: none

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Safety System Functional Failures	0	0	1	1	0	0	1	0
Indicator value	**1**	**1**	**2**	**2**	**2**	**2**	**2**	**1**

TOP

Licensee Comments:
1Q/17: LER 2016-003, HPCI Declared Inoperable Due to Excessive Water Level in Turbine
2Q/16: LER 2016-001, High Pressure Coolant Injection System Cracked Pipe Nipple Caused Oil Leak, dated May 18, 2016. This does not change the color of this indicator.
1Q/16: LER 2015-007, Loss of Residual Heat Removal Capability, reported as a Safety System Functional Failure on January 21, 2016.

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 (ΔCDF)	1.55E-08	1.77E-08	2.65E-08	2.63E-08	4.97E-08	7.78E-08	1.09E-07	9.35E-08
URI (ΔCDF)	2.39E-07	2.08E-07	2.08E-07	2.08E-07	2.08E-07	2.21E-07	2.21E-07	-1.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.50E-07**	**2.30E-07**	**2.30E-07**	**2.30E-07**	**2.60E-07**	**3.00E-07**	**3.30E-07**	**8.10E-08**

TOP

Licensee Comments:
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.
4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.
3Q/15: MSPI Emergency AC Power System - 3Q2015: The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The new MSPI coefficients will be updated for 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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 (ΔCDF)	-4.33E-08	-5.00E-08	-5.00E-08	-5.00E-08	-5.00E-08	-1.87E-08	-1.47E-08	4.89E-08
URI (ΔCDF)	-7.80E-08	-9.51E-08	4.79E-08	4.68E-08	4.57E-08	3.19E-07	3.19E-07	3.52E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-07**	**-1.50E-07**	**-2.10E-09**	**-3.20E-09**	**-4.20E-09**	**3.00E-07**	**3.00E-07**	**4.00E-07**

TOP

Licensee Comments:
4Q/16: 4Q2016 MSPI High Pressure Injection System - MSPI Start/Demand Failure taken in November 2016 on the HPCI System due to water in the turbine. This does not result in a color change (remains Green).
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.
2Q/16: The engineering evaluation for the HPCI event that occurred in 1Q2016 (3/22/16) has been complete. The evaluation determined this event was a MSPI Run Failure against the High Pressure Injection indicator. The MSPI unavailability hours for the HPCI in the 1Q2016 submittal included the HPCI event and accurately reflect the total unavailability. This constitutes resolution of the incomplete engineering evaluation from 1Q2016. This does not change the MSPI color for the High Pressure Injection indicator.
1Q/16: Monticello is evaluating an event associated with HPCI that occurred late in 1st Quarter 2016. The associated engineering evaluation is not yet complete for the 1st quarter 2016 data submittal. Preliminary determination is a MSPI Run Failure against the High Pressure Injection indicator . This does not result in a color change (remains Green). Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2.
1Q/16: Monticello is evaluating an event associated with HPCI that occurred late in 1st Quarter 2016. The associated engineering evaluation is not yet complete for the 1st quarter 2016 data submittal. Preliminary determination is a MSPI Run Failure against the High Pressure Injection indicator . This does not result in a color change (remains Green). Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2. The engineering evaluation for the HPCI event that occurred in 1Q2016 (3/22/16) has been complete. The evaluation determined this event was a MSPI Run Failure against the High Pressure Injection indicator. The MSPI unavailability hours for the HPCI in the 1Q2016 submittal included the HPCI event and accurately reflect the total unavailability. This

constitutes resolution of the incomplete engineering evaluation from 1Q2016. This does not change the MSPI color for the High Pressure Injection indicator.
4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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 (ΔCDF)	-2.71E-08	-4.71E-08	-4.71E-08	-4.71E-08	-4.71E-08	-5.01E-08	-5.01E-08	-5.01E-08
URI (ΔCDF)	3.54E-08	-7.95E-08	-8.07E-08	-8.20E-08	-8.32E-08	-8.99E-08	-9.12E-08	-9.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.30E-09**	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**	**-1.40E-07**	**-1.40E-07**	**-1.40E-07**

TOP

Licensee Comments:
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.
4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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 (ΔCDF)	-3.32E-10	-1.88E-10	-2.76E-10	-2.43E-10	-2.65E-10	-2.82E-10	-4.06E-10	-3.56E-10
URI (ΔCDF)	3.57E-09	3.05E-09	3.05E-09	3.05E-09	8.80E-10	9.46E-10	9.54E-10	-1.24E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.20E-09**	**2.90E-09**	**2.80E-09**	**2.80E-09**	**6.20E-10**	**6.60E-10**	**5.50E-10**	**-1.60E-09**

TOP

Licensee Comments:
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.
4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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 (ΔCDF)	-2.65E-09	-3.04E-09	-3.06E-09	-3.06E-09	-3.06E-09	-3.25E-09	-3.25E-09	-3.25E-09
URI (ΔCDF)	7.80E-12	3.03E-13	3.25E-13	3.47E-13	3.70E-13	-1.07E-12	-1.06E-12	-1.06E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.60E-09**	**-3.00E-09**	**-3.10E-09**	**-3.10E-09**	**-3.10E-09**	**-3.30E-09**	**-3.30E-09**	**-3.30E-09**

TOP

Licensee Comments:
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.
4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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	0.000107	0.000113	0.000104	0.000115	0.000109	0.000195	0.000189	0.000215	0.000153	0.000128	0.000286	0.000149
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.000161	0.000141	0.000125	0.000190	0.000142	0.000113	0.000111	0.000055	0.000063	0.000058	0.000105	0.000110
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**	**0.1**	**0.1**

TOP

Licensee Comments: none

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	1.740	1.810	1.840	1.860	1.840	1.980	1.810	1.830	1.840	1.770	1.820	1.860
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.0**	**7.2**	**7.4**	**7.4**	**7.4**	**7.9**	**7.2**	**7.3**	**7.4**	**7.1**	**7.3**	**7.4**

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	1.860	1.890	1.830	1.750	1.870	1.840	1.820	1.780	1.710	1.780	2.060	1.770
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.4**	**7.6**	**7.3**	**7.0**	**7.5**	**7.4**	**7.3**	**7.1**	**6.8**	**7.1**	**8.2**	**7.1**

TOP

Licensee Comments: none

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	42.0	43.0	52.0	65.0	52.0	31.0	44.0	0
Total opportunities	44.0	44.0	55.0	66.0	54.0	31.0	44.0	0
Indicator value	**98.4%**	**98.5%**	**97.8%**	**97.3%**	**96.8%**	**96.7%**	**97.5%**	**97.3%**

TOP

Licensee Comments:
4Q/15: There is a correction to the Drill / Exercise Performance indicator for November 2015. A retroactive failure was identified during a site self-assessment. This resulted in a change to the KPI from 14 out of 14 to the corrected results of 13 out of 14. Indicator color did not change as a result and remains green.

Notes

ERO Drill Participation	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Participating Key personnel	129.0	136.0	133.0	123.0	121.0	124.0	124.0	118.0
Total Key personnel	131.0	136.0	133.0	125.0	121.0	124.0	124.0	118.0
Indicator value	**98.5%**	**100.0%**	**100.0%**	**98.4%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

TOP

Licensee Comments: none

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	1479	1376	1378	1377	1377	1378	1371	1376
Total sirens-tests	1484	1378	1378	1378	1378	1378	1378	1378
Indicator value	**99.8%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**99.8%**	**99.8%**

TOP

Licensee Comments: none

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

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

United States Nuclear Regulatory Commission
Protecting People and the Environment

Monticello – Quarterly Performance Indicators

3Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2050.0	2183.0	2184.0	2208.0	2209.0	2159.0	1504.0	2208.0
Indicator value	**0.9**	**0.9**	**0.8**	**0.8**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2050.0	2183.0	2184.0	2208.0	2209.0	2159.0	1504.0	2208.0
Indicator value	**0**	**0**	**0**	**0.8**	**0.8**	**0.8**	**0.9**	**0**

TOP

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/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**

TOP

Licensee Comments: none

Notes

Safety System Functional Failures (BWR)	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Safety System Functional Failures	0	1	1	0	0	1	0	1
Indicator value	**1**	**2**	**2**	**2**	**2**	**2**	**1**	**2**

TOP

Licensee Comments:
3Q/17: LER 2017-004, High Pressure Coolant Injection Steam Stop Valve Failed to Open During Test, dated August 16, 2017.
1Q/17: LER 2016-003, HPCI Declared Inoperable Due to Excessive Water Level in Turbine
2Q/16: LER 2016-001, High Pressure Coolant Injection System Cracked Pipe Nipple Caused Oil Leak, dated May 18, 2016. This does not change the color of this indicator.
1Q/16: LER 2015-007, Loss of Residual Heat Removal Capability, reported as a Safety System Functional Failure on January 21, 2016.

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 (ΔCDF)	1.77E-08	2.65E-08	2.63E-08	4.97E-08	7.78E-08	1.09E-07	9.35E-08	1.94E-08
URI (ΔCDF)	2.08E-07	2.08E-07	2.08E-07	2.08E-07	2.21E-07	2.21E-07	-1.27E-08	2.77E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.30E-07**	**2.30E-07**	**2.30E-07**	**2.60E-07**	**3.00E-07**	**3.30E-07**	**8.10E-08**	**2.20E-08**

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s). Effective 3Q17, PRA Model was updated to Revision 3.4 which drove a MSPI Basis Document change and revised the MSPI coefficients.
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.
4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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 (ΔCDF)	-5.00E-08	-5.00E-08	-5.00E-08	-5.00E-08	-1.87E-08	-1.47E-08	4.89E-08	2.90E-08
URI (ΔCDF)	-9.51E-08	4.79E-08	4.68E-08	4.57E-08	3.19E-07	3.19E-07	3.52E-07	2.46E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-07**	**-2.10E-09**	**-3.20E-09**	**-4.20E-09**	**3.00E-07**	**3.00E-07**	**4.00E-07**	**2.80E-07**

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s). Effective 3Q17, PRA Model was updated to Revision 3.4 which drove a MSPI Basis Document change and revised the MSPI coefficients.
4Q/16: 4Q2016 MSPI High Pressure Injection System - MSPI Start/Demand Failure taken in November 2016 on the HPCI System due to water in the turbine. This does not result in a color change (remains Green).
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.
2Q/16: The engineering evaluation for the HPCI event that occurred in 1Q2016 (3/22/16) has been complete. The evaluation determined this event was a MSPI Run Failure against the High Pressure Injection indicator. The MSPI unavailability hours for the HPCI in the 1Q2016 submittal included the HPCI event and accurately reflect the total unavailability. This constitutes resolution of the incomplete engineering evaluation from 1Q2016. This does not change the MSPI color for the High Pressure Injection indicator.
1Q/16: Monticello is evaluating an event associated with HPCI that occurred late in 1st Quarter 2016. The associated engineering evaluation is not yet complete for the 1st quarter 2016 data submittal. Preliminary determination is a MSPI Run Failure against the High Pressure Injection indicator . This does not result in a color change (remains Green). Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2. The engineering evaluation for the HPCI event that occurred in 1Q2016 (3/22/16) has been complete. The evaluation determined this event was a MSPI Run Failure against the High Pressure Injection indicator. The MSPI unavailability hours for the HPCI in the 1Q2016 submittal included the HPCI event and accurately reflect the total unavailability. This constitutes resolution of the incomplete engineering evaluation from 1Q2016. This does not change the MSPI color for the High Pressure Injection indicator.

1Q/16: Monticello is evaluating an event associated with HPCI that occurred late in 1st Quarter 2016. The associated engineering evaluation is not yet complete for the 1st quarter 2016 data submittal. Preliminary determination is a MSPI Run Failure against the High Pressure Injection indicator . This does not result in a color change (remains Green). Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2.
4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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 (ΔCDF)	-4.71E-08	-4.71E-08	-4.71E-08	-4.71E-08	-5.01E-08	-5.01E-08	-5.01E-08	-3.93E-08
URI (ΔCDF)	-7.95E-08	-8.07E-08	-8.20E-08	-8.32E-08	-8.99E-08	-9.12E-08	-9.12E-08	-7.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**	**-1.40E-07**	**-1.40E-07**	**-1.40E-07**	**-1.10E-07**

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s). Effective 3Q17, PRA Model was updated to Revision 3.4 which drove a MSPI Basis Document change and revised the MSPI coefficients.
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.
4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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 (ΔCDF)	-1.88E-10	-2.76E-10	-2.43E-10	-2.65E-10	-2.82E-10	-4.06E-10	-3.56E-10	0.00E+00
URI (ΔCDF)	3.05E-09	3.05E-09	3.05E-09	8.80E-10	9.46E-10	9.54E-10	-1.24E-09	-1.47E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.90E-09**	**2.80E-09**	**2.80E-09**	**6.20E-10**	**6.60E-10**	**5.50E-10**	**-1.60E-09**	**-1.50E-09**

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s). Effective 3Q17, PRA Model was updated to Revision 3.4 which drove a MSPI Basis Document change and revised the MSPI coefficients.
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.
4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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 (ΔCDF)	-3.04E-09	-3.06E-09	-3.06E-09	-3.06E-09	-3.25E-09	-3.25E-09	-3.25E-09	-2.18E-09
URI (ΔCDF)	3.03E-13	3.25E-13	3.47E-13	3.70E-13	-1.07E-12	-1.06E-12	-1.06E-12	-4.73E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.00E-09**	**-3.10E-09**	**-3.10E-09**	**-3.10E-09**	**-3.30E-09**	**-3.30E-09**	**-3.30E-09**	**-2.20E-09**

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s). Effective 3Q17, PRA Model was updated to Revision 3.4 which drove a MSPI Basis Document change and revised the MSPI coefficients.
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.
4Q/15: Changed PRA Parameter(s). The site PRA model was revised during 3Q2015 to reflect the diesel fuel oil modification. The MSPI Basis document and new MSPI coefficients were updated effective 4Q2015. The modification did not result in a change to segment or train boundaries, monitored functions, nor success criteria.

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	0.000115	0.000109	0.000195	0.000189	0.000215	0.000153	0.000128	0.000286	0.000149	0.000161	0.000141	0.000125
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.000190	0.000142	0.000113	0.000111	0.000055	0.000063	0.000058	0.000105	0.000110	0.000097	0.000080	0.000070
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**	**0.1**	**0.1**	**0**	**0**	**0**

TOP

Licensee Comments: none

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	1.860	1.840	1.980	1.810	1.830	1.840	1.770	1.820	1.860	1.860	1.890	1.830
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.4**	**7.4**	**7.9**	**7.2**	**7.3**	**7.4**	**7.1**	**7.3**	**7.4**	**7.4**	**7.6**	**7.3**

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	1.750	1.870	1.840	1.820	1.780	1.710	1.780	2.060	1.770	1.830	1.840	1.790
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.0**	**7.5**	**7.4**	**7.3**	**7.1**	**6.8**	**7.1**	**8.2**	**7.1**	**7.3**	**7.4**	**7.2**

TOP

Licensee Comments: none

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	43.0	52.0	65.0	52.0	31.0	44.0	0	35.0
Total opportunities	44.0	55.0	66.0	54.0	31.0	44.0	0	36.0
Indicator value	**98.5%**	**97.8%**	**97.3%**	**96.8%**	**96.7%**	**97.5%**	**97.3%**	**97.6%**

TOP

Licensee Comments:
4Q/15: There is a correction to the Drill / Exercise Performance indicator for November 2015. A retroactive failure was identified during a site self-assessment. This resulted in a change to the KPI from 14 out of 14 to the corrected results of 13 out of 14. Indicator color did not change as a result and remains green.

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	136.0	133.0	123.0	121.0	124.0	124.0	118.0	118.0
Total Key personnel	136.0	133.0	125.0	121.0	124.0	124.0	118.0	118.0
Indicator value	**100.0%**	**100.0%**	**98.4%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

TOP

Licensee Comments: none

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	1376	1378	1377	1377	1378	1371	1376	1372
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**99.8%**	**99.8%**	**99.7%**

TOP

Licensee Comments: none

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

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

United States Nuclear Regulatory Commission
Protecting People and the Environment

Monticello – 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)

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	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2209.0	2159.0	1504.0	2208.0	2209.0
Indicator value	**0.9**	**0.8**	**0.8**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

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	1.0	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2209.0	2159.0	1504.0	2208.0	2209.0
Indicator value	**0**	**0**	**0.8**	**0.8**	**0.8**	**0.9**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/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

Thresholds: White > 6.0

Notes

Safety System Functional Failures (BWR)	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Safety System Functional Failures	1	1	0	0	1	0	1	0
Indicator value	**2**	**2**	**2**	**2**	**2**	**1**	**2**	**2**

TOP

Licensee Comments:
3Q/17: LER 2017-004, High Pressure Coolant Injection Steam Stop Valve Failed to Open During Test, dated August 16, 2017.
1Q/17: LER 2016-003, HPCI Declared Inoperable Due to Excessive Water Level in Turbine
2Q/16: LER 2016-001, High Pressure Coolant Injection System Cracked Pipe Nipple Caused Oil Leak, dated May 18, 2016. This does not change the color of this indicator.
1Q/16: LER 2015-007, Loss of Residual Heat Removal Capability, reported as a Safety System Functional Failure on January 21, 2016.

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 (ΔCDF)	2.65E-08	2.63E-08	4.97E-08	7.78E-08	1.09E-07	9.35E-08	1.94E-08	2.26E-08
URI (ΔCDF)	2.08E-07	2.08E-07	2.08E-07	2.21E-07	2.21E-07	-1.27E-08	2.77E-09	-1.73E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.30E-07**	**2.30E-07**	**2.60E-07**	**3.00E-07**	**3.30E-07**	**8.10E-08**	**2.20E-08**	**5.30E-09**

TOP

Licensee Comments:
4Q/17: Changed PRA Parameter(s). Effective 3Q17, PRA Model was updated to Revision 3.4 which drove a MSPI Basis Document change and revised the MSPI coefficients.
3Q/17: Changed PRA Parameter(s). Effective 3Q17, PRA Model was updated to Revision 3.4 which drove a MSPI Basis Document change and revised the MSPI coefficients.
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.

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 (ΔCDF)	-5.00E-08	-5.00E-08	-5.00E-08	-1.87E-08	-1.47E-08	4.89E-08	2.90E-08	2.42E-08
URI (ΔCDF)	4.79E-08	4.68E-08	4.57E-08	3.19E-07	3.19E-07	3.52E-07	2.46E-07	2.46E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-09**	**-3.20E-09**	**-4.20E-09**	**3.00E-07**	**3.00E-07**	**4.00E-07**	**2.80E-07**	**2.70E-07**

TOP

Licensee Comments:
4Q/17: Changed PRA Parameter(s). Effective 3Q17, PRA Model was updated to Revision 3.4 which drove a MSPI Basis Document change and revised the MSPI coefficients.
3Q/17: Changed PRA Parameter(s). Effective 3Q17, PRA Model was updated to Revision 3.4 which drove a MSPI Basis Document change and revised the MSPI coefficients.
4Q/16: 4Q2016 MSPI High Pressure Injection System - MSPI Start/Demand Failure taken in November 2016 on the HPCI System due to water in the turbine. This does not result in a color change (remains Green).
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.
2Q/16: The engineering evaluation for the HPCI event that occurred in 1Q2016 (3/22/16) has been complete. The evaluation determined this event was a MSPI Run Failure against the High Pressure Injection indicator. The MSPI unavailability hours for the HPCI in the 1Q2016 submittal included the HPCI event and accurately reflect the total unavailability. This constitutes resolution of the incomplete engineering evaluation from 1Q2016. This does not change the MSPI color for the High Pressure Injection indicator.
1Q/16: Monticello is evaluating an event associated with HPCI that occurred late in 1st Quarter 2016. The associated engineering evaluation is not yet complete for the 1st quarter 2016 data submittal. Preliminary determination is a MSPI Run Failure against the High Pressure Injection indicator . This does not result in a color change (remains Green). Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2. The engineering evaluation for the HPCI event that occurred in 1Q2016 (3/22/16) has been complete. The evaluation determined this event was a MSPI Run Failure against the High Pressure Injection indicator. The MSPI unavailability hours for the HPCI in the 1Q2016 submittal included the HPCI event and accurately reflect the total unavailability. This

constitutes resolution of the incomplete engineering evaluation from 1Q2016. This does not change the MSPI color for the High Pressure Injection indicator.
1Q/16: Monticello is evaluating an event associated with HPCI that occurred late in 1st Quarter 2016. The associated engineering evaluation is not yet complete for the 1st quarter 2016 data submittal. Preliminary determination is a MSPI Run Failure against the High Pressure Injection indicator . This does not result in a color change (remains Green). Resolution to be submitted in the next quarterly submittal, per NEI 99-02 Rev. 7 Section F 2.2.2.

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 (ΔCDF)	-4.71E-08	-4.71E-08	-4.71E-08	-5.01E-08	-5.01E-08	-5.01E-08	-3.93E-08	-3.93E-08
URI (ΔCDF)	-8.07E-08	-8.20E-08	-8.32E-08	-8.99E-08	-9.12E-08	-9.12E-08	-7.40E-08	-7.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**	**-1.40E-07**	**-1.40E-07**	**-1.40E-07**	**-1.10E-07**	**-1.10E-07**

TOP

Licensee Comments:
4Q/17: Changed PRA Parameter(s). Effective 3Q17, PRA Model was updated to Revision 3.4 which drove a MSPI Basis Document change and revised the MSPI coefficients.
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3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.

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 (ΔCDF)	-2.76E-10	-2.43E-10	-2.65E-10	-2.82E-10	-4.06E-10	-3.56E-10	0.00E+00	0.00E+00
URI (ΔCDF)	3.05E-09	3.05E-09	8.80E-10	9.46E-10	9.54E-10	-1.24E-09	-1.47E-09	-1.47E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.80E-09**	**2.80E-09**	**6.20E-10**	**6.60E-10**	**5.50E-10**	**-1.60E-09**	**-1.50E-09**	**-1.50E-09**

TOP

Licensee Comments:
4Q/17: Changed PRA Parameter(s). Effective 3Q17, PRA Model was updated to Revision 3.4 which drove a MSPI Basis Document change and revised the MSPI coefficients.
3Q/17: Changed PRA Parameter(s). Effective 3Q17, PRA Model was updated to Revision 3.4 which drove a MSPI Basis Document change and revised the MSPI coefficients.
3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.

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 (ΔCDF)	-3.06E-09	-3.06E-09	-3.06E-09	-3.25E-09	-3.25E-09	-3.25E-09	-2.18E-09	-2.18E-09
URI (ΔCDF)	3.25E-13	3.47E-13	3.70E-13	-1.07E-12	-1.06E-12	-1.06E-12	-4.73E-12	-4.73E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-09**	**-3.10E-09**	**-3.10E-09**	**-3.30E-09**	**-3.30E-09**	**-3.30E-09**	**-2.20E-09**	**-2.20E-09**

TOP

Licensee Comments:
4Q/17: Changed PRA Parameter(s). Effective 3Q17, PRA Model was updated to Revision 3.4 which drove a MSPI Basis Document change and revised the MSPI coefficients.
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3Q/16: The MSPI basis document was updated to reflect the CDF number from PRA-CALC-05-003, Rev. 6. The CDF number was updated to 1.16E-6 for the Rev. 3.3 PRA model update.

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	0.000189	0.000215	0.000153	0.000128	0.000286	0.000149	0.000161	0.000141	0.000125	0.000190	0.000142	0.000113
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.000111	0.000055	0.000063	0.000058	0.000105	0.000110	0.000097	0.000080	0.000070	0.000064	0.000097	0.000070
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	**0.1**	**0**	**0**	**0**	**0.1**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

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	1.810	1.830	1.840	1.770	1.820	1.860	1.860	1.890	1.830	1.750	1.870	1.840
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.2**	**7.3**	**7.4**	**7.1**	**7.3**	**7.4**	**7.4**	**7.6**	**7.3**	**7.0**	**7.5**	**7.4**

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	1.820	1.780	1.710	1.780	2.060	1.770	1.830	1.840	1.790	1.820	2.150	2.070
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	**7.3**	**7.1**	**6.8**	**7.1**	**8.2**	**7.1**	**7.3**	**7.4**	**7.2**	**7.3**	**8.6**	**8.3**

TOP

Licensee Comments: none

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	52.0	65.0	52.0	31.0	44.0	0	35.0	52.0
Total opportunities	55.0	66.0	54.0	31.0	44.0	0	36.0	52.0
Indicator value	**97.8%**	**97.3%**	**96.8%**	**96.7%**	**97.5%**	**97.3%**	**97.6%**	**97.9%**

TOP

Licensee Comments: none

Notes

ERO Drill Participation	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Participating Key personnel	133.0	123.0	121.0	124.0	124.0	118.0	118.0	122.0
Total Key personnel	133.0	125.0	121.0	124.0	124.0	118.0	118.0	122.0
Indicator value	**100.0%**	**98.4%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

TOP

Licensee Comments: none

Notes

Alert & Notification System	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful siren-tests	1378	1377	1377	1378	1371	1376	1372	1376
Total sirens-tests	1378	1378	1378	1378	1378	1378	1378	1378
Indicator value	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**99.8%**	**99.8%**	**99.7%**	**99.7%**

TOP

Licensee Comments: none

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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

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**

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: February 1, 2018

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