Millstone 2

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	1.0	0	0	2.0
Critical hours	0	1159.7	2077.2	2209.0	1772.0
Indicator value	**N/A**	**N/A**	**2.2**	**1.3**	**2.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments:

2Q/99: Revised to include 5/25/99 reactor trip, following review with NRC resident inspector.

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned power changes	0	0	1.0	0	1.0
Critical hours	0	1159.7	2077.2	2209.0	1772.0
Indicator value	**N/A**	**N/A**	**2.2**	**1.3**	**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	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	8.20	19.25	57.87	32.12	37.00
Unplanned unavailable hours	48.00	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	0.50	19.22	58.15	37.98	40.20
Unplanned unavailable hours	0	0	19.00	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	**0.4%**	**0.5%**	**0.7%**	**0.9%**	**1.0%**

Licensee Comments:

4Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

3Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

2Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE

threshold.

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0	2.81	7.70	6.81	11.32
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	1692.00	2208.00	2209.00	1913.50
Train 2					
Planned unavailable hours	0	3.30	12.03	10.33	14.29
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	1692.00	2208.00	2209.00	1913.50
Indicator value	**0%**	**0.2%**	**0.3%**	**0.4%**	**0.4%**

Licensee Comments:

1Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

1Q/00: The planned unavailable hours were revised in accordance with the guidance in NEI 99-02, to take credit for availability during

evolutions when components remain available to perform their safety function. This revision does not result in crossing a threshold/performance color change.

4Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0	5.00	5.30	5.50	11.50
Unplanned unavailable hours	0	0	0	0	1.00
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	1159.70	2208.00	2209.00	1772.00
Train 2					
Planned unavailable hours	0	1.20	21.55	8.20	2.00
Unplanned unavailable hours	0	7.30	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	1159.70	2208.00	2209.00	1772.00

Train 3					
Planned unavailable hours	0	11.10	18.90	5.55	3.75
Unplanned unavailable hours	0	0	0	0	5.80
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	0	1159.70	2208.00	2209.00	1772.00
Indicator value	**0%**	**0.7%**	**0.7%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0	29.88	16.37	3.84	29.35
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	1913.50
Train 2					
Planned unavailable hours	0	8.12	5.84	17.62	21.29
Unplanned unavailable hours	0	0	0	0	11.06
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	1913.50
Train 3					
Planned unavailable hours	0	4.85	7.17	3.84	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	269.00
Train 4					
Planned unavailable hours	0	4.95	5.84	17.62	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	269.00
Indicator value				**0.1%**	**0.2%**

Licensee Comments:

1Q/00: Corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with the hours the system is required. The required hours were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

1Q/00: The planned unavailable hours were revised in accordance with the guidance in NEI 99-02, to take credit for availability during evolutions when components remain available to perform their safety function. The data was also revised to incorporate the guidance from FAQ 172. This revision does not result in crossing a threshold/performance color change.

4Q/99: For this indicator, Shut Down Cooling System unavailability for operating modes 4, 5, and 6, and Containment Spray System unavailability for operating modes 1, 2, and 3, are reported. Data is reported as a two train system.

3Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Safety System Functional Failures	2	0	0	0	0
Indicator value	**8**	**5**	**2**	**2**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum activity	N/A	0.003980	0.004420	0.004580	0.004910	0.004510	0.004580	0.004580	0.004460	0.005470	0.005510	0.005260
Technical specification limit	N/A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**N/A**	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.4**	**0.5**	**0.6**	**0.5**

Licensee Comments:

3/00: Revised the first quarter data to reflect the maximum monthly activity vs. the average monthly activity to be consistent with the requirements of NEI 99-02. This revision does not result in crossing a threshold/performance color change.

6/99: Replaced null values for the April 1999 with NA since the unit was shut down for recovery.

3/99: Replaced null values for the first quarter '99 with NA since the unit was shut down for recovery.

12/98: Replaced null values for the fourth quarter '98 with NA since the unit was shut down for recovery.

9/98: Replaced null values for the third quarter '98 with NA since the unit was shut down for recovery.

6/98: Replaced null values for the second quarter '98 with NA since the unit was shut down for recovery.

3/98: Replaced null values for the first quarter '98 with NA since the unit was shut down for recovery.

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum leakage	N/A	0.490	0.140	0.160	0.120	0.190	0.230	0.250	0.230	0.170	0.210	0.230
Technical specification limit	N/A	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**N/A**	**4.9**	**1.4**	**1.6**	**1.2**	**1.9**	**2.3**	**2.5**	**2.3**	**1.7**	**2.1**	**2.3**

Licensee Comments:

6/99: Replaced null values for April 1999 with NA since the unit was shut down for recovery.

3/99: Replaced null values for the first quarter '99 with NA since the unit was shut down for recovery.

12/98: Replaced null values for the fourth quarter '98 with NA since the unit was shut down for recovery.

9/98: Replaced null values for the third quarter '98 with NA since the unit was shut down for recovery.

6/98: Replaced null values for the second quarter '98 with NA since the unit was shut down for recovery.

3/98: Replaced null values for the first quarter '98 with NA since the unit was shut down for recovery.

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	0	2.0	15.0	12.0	27.0
Total opportunities	0	2.0	20.0	14.0	28.0
Indicator value	**95.1%**	**95.2%**	**91.3%**	**90.0%**	**90.0%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Participating Key personnel	70.0	69.0	71.0	74.0	76.0
Total Key personnel	72.0	72.0	73.0	74.0	76.0
Indicator value	**97.2%**	**95.8%**	**97.3%**	**100.0%**	**100.0%**

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	328	329	336	335	304
Total sirens-tests	334	331	337	336	306
Indicator value	**99.3%**	**99.3%**	**99.3%**	**99.3%**	**99.5%**

Licensee Comments:

1Q/00: The reporting data was found to be inconsistent with industry norms and not reflective of all tests conducted. Previously reported siren encoder tests were removed, as were 11 sirens located outside of the plume exposure zone. The quarterly growl tests conducted in the 4th quarter, not previously reported, were added in. Adjusting the data had minimal effects on the indicator values and did not result in any threshold being crossed. Consistent with the guidance provided in NEI 99-02 the data has only been corrected back to the 1st quarter 2000.

4Q/99: This indicator depicts information for Millstone Station.

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	**0**	**1**	**1**	**1**	**1**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/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	60.00	60.00	44.00	17.70	29.10
CCTV compensatory hours	0	0	0	0.5	0
IDS normalization factor	2.55	2.55	2.55	2.55	2.55
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1
Index Value	**0.005**	**0.005**	**0.005**	**0.004**	**0.003**

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

Millstone 2

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	1.0	0	0	2.0	1.0
Critical hours	1159.7	2077.2	2209.0	1772.0	1264.3
Indicator value	**N/A**	**2.2**	**1.3**	**2.9**	**2.9**

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/99	3Q/99	4Q/99	1Q/00	2Q/00
Scrams	1.0	0	0	1.0	0
Indicator value	**1.0**	**1.0**	**1.0**	**2.0**	**2.0**

Licensee Comments:

2Q/00: Revised to include 5/25/99 reactor trip. This revision does not result in crossing a threshold/ performance color change.

2Q/99: Revised to include 5/25/99 reactor trip, following review with NRC resident inspector.

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned power changes	0	1.0	0	1.0	0
Critical hours	1159.7	2077.2	2209.0	1772.0	1264.3
Indicator value	**N/A**	**2.2**	**1.3**	**1.9**	**1.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	19.25	57.87	32.12	37.00	6.93
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	19.22	58.15	37.98	40.20	10.54
Unplanned unavailable hours	0	19.00	0	0	0.02
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	**0.5%**	**0.7%**	**0.9%**	**1.0%**	**1.0%**

Licensee Comments:

2Q/00: Revised the Train A planned unavailable hours for June, and the Train B unplanned unavailable hours for May, due to data collection errors. The changes do not result in crossing a threshold.

4Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

3Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

2Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	2.81	7.70	6.81	11.32	7.01
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	1692.00	2208.00	2209.00	1913.50	1648.40
Train 2					
Planned unavailable hours	3.30	12.03	10.33	14.29	4.46
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	1692.00	2208.00	2209.00	1913.50	1648.40
Indicator value	**0.2%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments:

2Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required

by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

1Q/00: The planned unavailable hours were revised in accordance with the guidance in NEI 99-02, to take credit for availability during evolutions when components remain available to perform their safety function. This revision does not result in crossing a threshold/performance color change.

1Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

4Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	5.00	5.30	5.50	11.50	6.50
Unplanned unavailable hours	0	0	0	1.00	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1159.70	2208.00	2209.00	1772.00	1264.30

Train 2					
Planned unavailable hours	1.20	21.55	8.20	2.00	3.50
Unplanned unavailable hours	7.30	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1159.70	2208.00	2209.00	1772.00	1264.30
Train 3					
Planned unavailable hours	11.10	18.90	5.55	3.75	30.10
Unplanned unavailable hours	0	0	0	5.80	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1159.70	2208.00	2209.00	1772.00	1264.30
Indicator value	**0.7%**	**0.7%**	**0.5%**	**0.5%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	29.88	16.37	3.84	29.35	23.18
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0

Required hours	2183.00	2208.00	2209.00	1913.50	1333.00
Train 2					
Planned unavailable hours	8.12	5.84	17.62	21.29	3.92
Unplanned unavailable hours	0	0	0	11.06	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	1913.50	1333.00
Train 3					
Planned unavailable hours	4.85	7.17	3.84	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	269.00	826.00
Train 4					
Planned unavailable hours	4.95	5.84	17.62	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	269.00	826.00
Indicator value			**0.1%**	**0.2%**	**0.2%**

Licensee Comments:

2Q/00: Corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with the hours the system is required. The required hours were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

1Q/00: The planned unavailable hours were revised in accordance with the guidance in NEI 99-02, to take credit for availability during evolutions when components remain available to perform their safety function. The data was also revised to incorporate the guidance from FAQ 172. This revision does not result in crossing a threshold/performance color change.

1Q/00: Corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with the hours the system is required. The required hours were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

4Q/99: For this indicator, Shut Down Cooling System unavailability for operating modes 4, 5, and 6, and Containment Spray System unavailability for operating modes 1, 2, and 3, are reported. Data is reported as a two train system.

3Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments:

2Q/00: The data point for April 2000 was moved to August 2000. This change conforms with the NEI guideline which requires events to be counted in the month that they were reported. Event was previously counted in the month it occurred. This change does not result in crossing the GREEN/WHITE threshold.

2Q/00: A correction to the data for April 2000 was made to reflect a re-evaluation of the original reportability assessment performed for LER 2000-012. Supplemental LER 2000-012-01 was issued on February 20, 2001 to recharacterize the original event as a loss of safety function. The event occurred on April 19, 2000 when both chilled water pumps associated with the redundant vital DC switchgear cooling systems became air bound. Adjusting the data did not result in any threshold being crossed.

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	0.004580	0.004910	0.004510	0.004580	0.004580	0.004460	0.005470	0.005510	0.005260	0.003990	N/A	0.002960
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.4**	**0.5**	**0.6**	**0.5**	**0.4**	**N/A**	**0.3**

Licensee Comments:

6/00: The indicator is N/A for the month of May since the unit was in a planned refueling outage.

3/00: Revised the first quarter data to reflect the maximum monthly activity vs. the average monthly activity to be consistent with the requirements of NEI 99-02. This revision does not result in crossing a threshold/performance color change.

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum leakage	0.160	0.120	0.190	0.230	0.250	0.230	0.170	0.210	0.230	0.150	0.198	0.051
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.6**	**1.2**	**1.9**	**2.3**	**2.5**	**2.3**	**1.7**	**2.1**	**2.3**	**1.5**	**2.0**	**0.5**

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	2.0	15.0	12.0	27.0	14.0
Total opportunities	2.0	20.0	14.0	28.0	14.0
Indicator value	**95.2%**	**91.3%**	**90.0%**	**90.0%**	**90.5%**

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	69.0	71.0	74.0	76.0	55.0
Total Key personnel	72.0	73.0	74.0	76.0	55.0
Indicator value	**95.8%**	**97.3%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful siren-tests	329	336	335	304	308
Total sirens-tests	331	337	336	306	308
Indicator value	**99.3%**	**99.3%**	**99.3%**	**99.5%**	**99.7%**

Licensee Comments:

2Q/00: The reporting data was found to be inconsistent with industry norms and not reflective of all tests conducted. Previously reported siren encoder tests were removed, as were 11 sirens located outside of the plume exposure zone. The quarterly growl tests conducted in the 4th quarter, not previously reported, were added in. Adjusting the data had minimal effects on the indicator values and did not result in any threshold being crossed. Consistent with the guidance provided in NEI 99-02 the data has only been corrected back to the 1st quarter 2000.

1Q/00: The reporting data was found to be inconsistent with industry norms and not reflective of all tests conducted. Previously reported siren encoder tests were removed, as were 11 sirens located outside of the plume exposure zone. The quarterly growl tests conducted in the 4th quarter, not previously reported, were added in. Adjusting the data had minimal effects on the indicator values and did not result in any threshold being crossed. Consistent with the guidance provided in NEI 99-02 the data has only been corrected back to the 1st quarter 2000.

4Q/99: This indicator depicts information for Millstone Station.

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	60.00	44.00	17.70	29.10	15.10
CCTV compensatory hours	0	0	0.5	0	29.1
IDS normalization factor	2.55	2.55	2.55	2.55	2.50
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1
Index Value	**0.005**	**0.005**	**0.004**	**0.003**	**0.003**

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

Last Modified: April 1, 2002

Millstone 2

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	2.0	1.0	0
Critical hours	2077.2	2209.0	1772.0	1264.3	2208.0
Indicator value	**2.2**	**1.3**	**2.9**	**2.9**	**2.8**

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/99	4Q/99	1Q/00	2Q/00	3Q/00
Scrams	0	0	1.0	0	0
Indicator value	**1.0**	**1.0**	**2.0**	**2.0**	**2.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned power changes	1.0	0	1.0	0	1.0
Critical hours	2077.2	2209.0	1772.0	1264.3	2208.0
Indicator value	**2.2**	**1.3**	**1.9**	**1.9**	**1.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	57.87	32.12	37.00	6.93	29.75
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	58.15	37.98	40.20	10.54	43.27
Unplanned unavailable hours	19.00	0	0	0.02	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	**0.7%**	**0.9%**	**1.0%**	**1.0%**	**1.2%**

Licensee Comments:

3Q/00: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

2Q/00: Revised the Train A planned unavailable hours for June, and the Train B unplanned unavailable hours for May, due to data collection errors. The changes do not result in crossing a threshold.

4Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

3Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

2Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	7.70	6.81	11.32	7.01	3.74
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	1913.50	1648.40	2208.00
Train 2					
Planned unavailable hours	12.03	10.33	14.29	4.46	5.33
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	654.20
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	1913.50	1648.40	2208.00
Indicator value	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**3.1%**

Licensee Comments:

3Q/00: In accordance with the guidance in NEI 99-02 Fault Exposure Hours for the months of July and August 2000 were removed. Additionally, minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. The removal of the Fault Exposure Hours returned the indicator to the GREEN performance band.

3Q/00: In accordance with the requirements of NEI 99-02 revision 2, the fault exposure hours were added back in to accommodate the fault exposure hour resetting process.

3Q/00: Performance crossed the GREEN/WHITE threshold due to the addition of 654 Fault Exposure hours (7/06-8/03/00). This was due to a low bearing oil level as a result of problems with oiler level adjust assembly.

2Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

1Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

4Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	5.30	5.50	11.50	6.50	8.60
Unplanned unavailable hours	0	0	1.00	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	1772.00	1264.30	2208.00
Train 2					
Planned unavailable hours	21.55	8.20	2.00	3.50	12.60
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	1772.00	1264.30	2208.00
Train 3					
Planned unavailable hours	18.90	5.55	3.75	30.10	4.80
Unplanned unavailable hours	0	0	5.80	0	30.75
Fault exposure hours	0	0	0	0	672.50
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	1772.00	1264.30	2208.00
Indicator value	**0.7%**	**0.5%**	**0.5%**	**0.6%**	**2.7%**

Licensee Comments:

3Q/00: The Turbine Driven Auxiliary Feedwater (TDAFW) pump failed it's 9/2000 monthly surveillance test. During initial investigation, exact time of failure was unknown. The T/2 rule was used to determine 335.0 fault exposure hours reported in 3rd quarter 2000 submittal. Subsequent analysis completed 5/2001, utilizing analytical tools not previously available, determined failure occurred at conclusion of 8/2000 surveillance. Fault exposure hours revised to include actual hours between failure and discovery, resulting in crossing of GREEN/WHITE threshold (9/2000); mid-quarter correction filed 5/2001. Performance returned to GREEN band 4/2001. All actions in accordance with NEI 99-02 rev. 0.

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	16.37	3.84	29.35	23.18	8.01
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	1913.50	1333.00	2208.00
Train 2					
Planned unavailable hours	5.84	17.62	21.29	3.92	6.33
Unplanned unavailable hours	0	0	11.06	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	1913.50	1333.00	2208.00
Train 3					
Planned unavailable hours	7.17	3.84	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	269.00	826.00	0
Train 4					
Planned unavailable hours	5.84	17.62	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	269.00	826.00	0
Indicator value		**0.1%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments:

3Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/00: Corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with the hours the system is required. The required hours were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

1Q/00: Corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with the hours the system is required. The required hours were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments:

3Q/00: The data point for April 2000 was moved to August 2000. This change conforms with the NEI guideline which requires events to be counted in the month that they were reported. Event was previously counted in the month it occurred. This change does not result in crossing the GREEN/WHITE threshold.

2Q/00: The data point for April 2000 was moved to August 2000. This change conforms with the NEI guideline which requires events to be counted in the month that they were reported. Event was previously counted in the month it occurred. This change does not result in crossing the GREEN/WHITE threshold.

2Q/00: A correction to the data for April 2000 was made to reflect a re-evaluation of the original reportability assessment performed for LER 2000-012. Supplemental LER 2000-012-01 was issued on February 20, 2001 to recharacterize the original event as a loss of safety function. The event occurred on April 19, 2000 when both chilled water pumps associated with the redundant vital DC switchgear cooling systems became air bound. Adjusting the data did not result in any threshold being crossed.

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	0.004580	0.004580	0.004460	0.005470	0.005510	0.005260	0.003990	N/A	0.002960	0.003260	0.003190	0.003530
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.5**	**0.4**	**0.5**	**0.6**	**0.5**	**0.4**	**N/A**	**0.3**	**0.3**	**0.3**	**0.4**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.230	0.250	0.230	0.170	0.210	0.230	0.150	0.198	0.051	0.050	0.059	0.047
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**2.3**	**2.5**	**2.3**	**1.7**	**2.1**	**2.3**	**1.5**	**2.0**	**0.5**	**0.5**	**0.6**	**0.5**

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	15.0	12.0	27.0	14.0	0
Total opportunities	20.0	14.0	28.0	14.0	0
Indicator value	**91.3%**	**90.0%**	**90.0%**	**90.5%**	**90.5%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Participating Key personnel	71.0	74.0	76.0	55.0	58.0
Total Key personnel	73.0	74.0	76.0	55.0	71.0
Indicator value	**97.3%**	**100.0%**	**100.0%**	**100.0%**	**81.7%**

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	336	335	304	308	308
Total sirens-tests	337	336	306	308	308
Indicator value	**99.3%**	**99.3%**	**99.5%**	**99.7%**	**99.8%**

Licensee Comments:

3Q/00: The reporting data was found to be inconsistent with industry norms and not reflective of all tests conducted. Previously reported siren encoder tests were removed, as were 11 sirens located outside of the plume exposure zone. The quarterly growl tests conducted in the 4th quarter, not previously reported, were added in. Adjusting the data had minimal effects on the indicator values and did not result in any threshold being crossed. Consistent with the guidance provided in NEI 99-02 the data has only been corrected back to the 1st quarter 2000.

2Q/00: The reporting data was found to be inconsistent with industry norms and not reflective of all tests conducted. Previously reported siren encoder tests were removed, as were 11 sirens located outside of the plume exposure zone. The quarterly growl tests conducted in the 4th quarter, not previously reported, were added in. Adjusting the data had minimal effects on the indicator values and did not result in any threshold being crossed. Consistent with the guidance provided in NEI 99-02 the data has only been corrected back to the 1st quarter 2000.

1Q/00: The reporting data was found to be inconsistent with industry norms and not reflective of all tests conducted. Previously reported siren encoder tests were removed, as were 11 sirens located outside of the plume exposure zone. The quarterly growl tests conducted in the 4th quarter, not previously reported, were added in. Adjusting the data had minimal effects on the indicator values and did not result in any threshold being crossed. Consistent with the guidance provided in NEI 99-02 the data has only been corrected back to the 1st quarter 2000.

4Q/99: This indicator depicts information for Millstone Station.

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	44.00	17.70	29.10	15.10	134.00
CCTV compensatory hours	0	0.5	0	29.1	12.9
IDS normalization factor	2.55	2.55	2.55	2.50	2.50
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1
Index Value	**0.005**	**0.004**	**0.003**	**0.003**	**0.006**

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

Last Modified: March 29, 2002

Millstone 2

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	2.0	1.0	0	0
Critical hours	2209.0	1772.0	1264.3	2208.0	2209.0
Indicator value	**1.3**	**2.9**	**2.9**	**2.8**	**2.8**

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/99	1Q/00	2Q/00	3Q/00	4Q/00
Scrams	0	1.0	0	0	0
Indicator value	**1.0**	**2.0**	**2.0**	**2.0**	**2.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned power changes	0	1.0	0	1.0	0
Critical hours	2209.0	1772.0	1264.3	2208.0	2209.0
Indicator value	**1.3**	**1.9**	**1.9**	**1.9**	**1.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	32.12	37.00	6.93	29.75	19.88
Unplanned unavailable hours	0	0	0	0	6.57
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	37.98	40.20	10.54	43.27	17.75
Unplanned unavailable hours	0	0	0.02	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	**0.9%**	**1.0%**	**1.0%**	**1.2%**	**1.3%**

Licensee Comments:

4Q/00: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

3Q/00: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

4Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE

threshold.

3Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

2Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	6.81	11.32	7.01	3.74	3.62
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	1913.50	1648.40	2208.00	2209.00
Train 2					
Planned unavailable hours	10.33	14.29	4.46	5.33	1.75
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	654.20	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	1913.50	1648.40	2208.00	2209.00

Indicator value	**0.4%**	**0.4%**	**0.4%**	**3.1%**	**2.7%**

Licensee Comments:

4Q/00: In the 3rd quarter performance crossed the GREEN/WHITE threshold due to the addition of 654 Fault Exposure hours (7/06-8/03/00). This was due to a low bearing oil level as a result of problems with oiler level adjust assembly.

4Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/00: In accordance with the guidance in NEI 99-02 Fault Exposure Hours for the months of July and August 2000 were removed. Additionally, minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. The removal of the Fault Exposure Hours returned the indicator to the GREEN performance band.

3Q/00: In accordance with the requirements of NEI 99-02 revision 2, the fault exposure hours were added back in to accommodate the fault exposure hour resetting process.

2Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

1Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

4Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	5.50	11.50	6.50	8.60	1.80
Unplanned unavailable hours	0	1.00	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	1772.00	1264.30	2208.00	2209.00
Train 2					
Planned unavailable hours	8.20	2.00	3.50	12.60	2.80
Unplanned unavailable hours	0	0	0	0	1.80
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	1772.00	1264.30	2208.00	2209.00
Train 3					
Planned unavailable hours	5.55	3.75	30.10	4.80	27.30
Unplanned unavailable hours	0	5.80	0	30.75	0
Fault exposure hours	0	0	0	672.50	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	1772.00	1264.30	2208.00	2209.00
Indicator value	**0.5%**	**0.5%**	**0.6%**	**2.7%**	**2.3%**

Licensee Comments:

3Q/00: The Turbine Driven Auxiliary Feedwater (TDAFW) pump failed it's 9/2000 monthly surveillance test. During initial investigation, exact time of failure was unknown. The T/2 rule was used to determine 335.0 fault exposure hours reported in 3rd quarter 2000 submittal. Subsequent analysis completed 5/2001, utilizing analytical tools not previously available, determined failure occurred at conclusion of 8/2000 surveillance. Fault exposure hours revised to include actual hours between failure and discovery, resulting in crossing of GREEN/WHITE threshold (9/2000); mid-quarter correction filed 5/2001. Performance returned to GREEN band 4/2001. All actions in accordance with NEI 99-02 rev. 0.

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	3.84	29.35	23.18	8.01	4.38
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	1913.50	1333.00	2208.00	2209.00
Train 2					
Planned unavailable hours	17.62	21.29	3.92	6.33	7.61
Unplanned unavailable hours	0	11.06	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	1913.50	1333.00	2208.00	2209.00
Train 3					
Planned unavailable hours	3.84	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	269.00	826.00	0	0
Train 4					
Planned unavailable hours	17.62	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0

Required hours	2209.00	269.00	826.00	0	0
Indicator value	**0.1%**	**0.2%**	**0.2%**	**0.2%**	**0.3%**

Licensee Comments:

4Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/00: Corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with the hours the system is required. The required hours were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

1Q/00: Corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with the hours the system is required. The required hours were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments:

3Q/00: The data point for April 2000 was moved to August 2000. This change conforms with the NEI guideline which requires events to be counted in the month that they were reported. Event was previously counted in the month it occurred. This change does not result in crossing the GREEN/WHITE threshold.

2Q/00: The data point for April 2000 was moved to August 2000. This change conforms with the NEI guideline which requires events to be counted in the month that they were reported. Event was previously counted in the month it occurred. This change does not result in crossing the GREEN/WHITE threshold.

2Q/00: A correction to the data for April 2000 was made to reflect a re-evaluation of the original reportability assessment performed for LER 2000-012. Supplemental LER 2000-012-01 was issued on February 20, 2001 to recharacterize the original event as a loss of safety function. The event occurred on April 19, 2000 when both chilled water pumps associated with the redundant vital DC switchgear cooling systems became air bound. Adjusting the data did not result in any threshold being crossed.

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	0.005470	0.005510	0.005260	0.003990	N/A	0.002960	0.003260	0.003190	0.003530	0.003800	0.003700	0.004310
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.6**	**0.5**	**0.4**	**N/A**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage	0.170	0.210	0.230	0.150	0.198	0.051	0.050	0.059	0.047	0.040	0.053	0.055
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.7**	**2.1**	**2.3**	**1.5**	**2.0**	**0.5**	**0.5**	**0.6**	**0.5**	**0.4**	**0.5**	**0.6**

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	12.0	27.0	14.0	0	11.0
Total opportunities	14.0	28.0	14.0	0	12.0
Indicator value	**90.0%**	**90.0%**	**90.5%**	**90.5%**	**90.0%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Participating Key personnel	74.0	76.0	55.0	58.0	66.0
Total Key personnel	74.0	76.0	55.0	71.0	69.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**81.7%**	**95.7%**

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	335	304	308	308	474
Total sirens-tests	336	306	308	308	474
Indicator value	**99.3%**	**99.5%**	**99.7%**	**99.8%**	**99.9%**

Licensee Comments:

4Q/00: The reporting data was found to be inconsistent with industry norms and not reflective of all tests conducted. Previously reported siren encoder tests were removed, as were 11 sirens located outside of the plume exposure zone. The quarterly growl tests conducted in the 4th quarter, not previously reported, were added in. Adjusting the data had minimal effects on the indicator values and did not result in any threshold being crossed. Consistent with the guidance provided in NEI 99-02 the data has only been corrected back to the 1st quarter 2000.

4Q/00: An error in the data collection was discovered. Previously the siren test data reported each quarter was actually 4 quarters of data. Historical data was corrected back to the First Quarter 1999 only, data in the previous quarters was not corrected. Correction of the error had a small effect on the indicator value and did not result in any threshold being crossed.

3Q/00: The reporting data was found to be inconsistent with industry norms and not reflective of all tests conducted. Previously reported siren encoder tests were removed, as were 11 sirens located outside of the plume exposure zone. The quarterly growl tests conducted in the 4th quarter, not previously reported, were added in. Adjusting the data had minimal effects on the indicator values and did not result in any threshold being crossed. Consistent with the guidance provided in NEI 99-02 the data has only been corrected back to the 1st quarter 2000.

2Q/00: The reporting data was found to be inconsistent with industry norms and not reflective of all tests conducted. Previously reported siren encoder tests were removed, as were 11 sirens located outside of the plume exposure zone. The quarterly growl tests conducted in the 4th quarter, not previously reported, were added in. Adjusting the data had minimal effects on the indicator values and did not result in any threshold being crossed. Consistent with the guidance provided in NEI 99-02 the data has only been corrected back to the 1st quarter 2000.

1Q/00: The reporting data was found to be inconsistent with industry norms and not reflective of all tests conducted. Previously reported siren encoder tests were removed, as were 11 sirens located outside of the plume exposure zone. The quarterly growl tests conducted in the 4th quarter, not previously reported, were added in. Adjusting the data had minimal effects on the indicator values and did not result in any threshold being crossed. Consistent with the guidance provided in NEI 99-02 the data has only been corrected back to the 1st quarter 2000.

4Q/99: This indicator depicts information for Millstone Station.

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

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
IDS compensatory hours	17.70	29.10	15.10	134.00	1037.00
CCTV compensatory hours	0.5	0	29.1	12.9	0
IDS normalization factor	2.55	2.55	2.50	2.50	2.50
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1
Index Value	**0.004**	**0.003**	**0.003**	**0.006**	**0.029**

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

Millstone 2

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	2.0	1.0	0	0	0
Critical hours	2209.0	1772.0	1264.3	2208.0	2209.0	2160.0
Indicator value	**1.3**	**2.9**	**2.9**	**2.8**	**2.8**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Scrams	0	1.0	0	0	0	0
Indicator value	**1.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned power changes	0	1.0	0	1.0	0	1.0
Critical hours	2209.0	1772.0	1264.3	2208.0	2209.0	2160.0
Indicator value	**1.3**	**1.9**	**1.9**	**1.9**	**1.9**	**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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	32.12	37.00	6.93	29.75	19.88	8.39
Unplanned unavailable hours	0	0	0	0	6.57	1.02
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	37.98	40.20	10.54	43.27	17.75	8.39
Unplanned unavailable hours	0	0	0.02	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	**0.9%**	**1.0%**	**1.0%**	**1.2%**	**1.3%**	**1.1%**

Licensee Comments:

1Q/01: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

4Q/00: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

3Q/00: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE

threshold.

4Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

3Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

2Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	6.81	11.32	7.01	3.74	3.62	0.06
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	1913.50	1648.40	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	10.33	14.29	4.46	5.33	1.75	1.11

Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	654.20	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	1913.50	1648.40	2208.00	2209.00	2160.00
Indicator value	**0.4%**	**0.4%**	**0.4%**	**3.1%**	**2.7%**	**2.3%**

Licensee Comments:

1Q/01: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

4Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/00: In accordance with the guidance in NEI 99-02 Fault Exposure Hours for the months of July and August 2000 were removed. Additionally, minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. The removal of the Fault Exposure Hours returned the indicator to the GREEN performance band.

3Q/00: In accordance with the requirements of NEI 99-02 revision 2, the fault exposure hours were added back in to accommodate the fault exposure hour resetting process.

2Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

1Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

4Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	5.50	11.50	6.50	8.60	1.80	0.30
Unplanned unavailable hours	0	1.00	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	1772.00	1264.30	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	8.20	2.00	3.50	12.60	2.80	0.60
Unplanned unavailable hours	0	0	0	0	1.80	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	1772.00	1264.30	2208.00	2209.00	2160.00
Train 3						
Planned unavailable hours	5.55	3.75	30.10	4.80	27.30	9.30
Unplanned unavailable hours	0	5.80	0	30.75	0	0
Fault exposure hours	0	0	0	672.50	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	1772.00	1264.30	2208.00	2209.00	2160.00
Indicator value	**0.5%**	**0.5%**	**0.6%**	**2.7%**	**2.3%**	**2.0%**

Licensee Comments:

3Q/00: The Turbine Driven Auxiliary Feedwater (TDAFW) pump failed it's 9/2000 monthly surveillance test. During initial investigation, exact time of failure was unknown. The T/2 rule was used to determine 335.0 fault exposure hours reported in 3rd quarter 2000 submittal. Subsequent analysis completed 5/2001, utilizing analytical tools not previously available, determined failure occurred at conclusion of 8/2000 surveillance. Fault exposure hours revised to include actual hours between failure and discovery, resulting in crossing of GREEN/WHITE threshold (9/2000); mid-quarter correction filed 5/2001. Performance returned to GREEN band 4/2001. All actions in accordance with NEI 99-02 rev. 0.

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	3.84	29.35	23.18	8.01	4.38	5.31
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	1913.50	1333.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	17.62	21.29	3.92	6.33	7.61	5.06
Unplanned unavailable hours	0	11.06	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	1913.50	1333.00	2208.00	2209.00	2160.00
Train 3						
Planned unavailable hours	3.84	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	269.00	826.00	0	0	0
Train 4						
Planned unavailable hours	17.62	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0

Required hours	2209.00	269.00	826.00	0	0	0
Indicator value	**0.1%**	**0.2%**	**0.2%**	**0.2%**	**0.3%**	**0.3%**

Licensee Comments:

1Q/01: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

4Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/00: Corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with the hours the system is required. The required hours were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

1Q/00: Corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with the hours the system is required. The required hours were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments:

1Q/01: A correction to the data for April 2000 was made to reflect a re-evaluation of the original reportability assessment performed for LER 2000-012. Supplemental LER 2000-012-01 was issued on February 20, 2001 to recharacterize the original event as a loss of safety function. The event occurred on April 19, 2000 when both chilled water pumps associated with the redundant vital DC switchgear cooling systems became air bound. Adjusting the data did not result in any threshold being crossed.

3Q/00: The data point for April 2000 was moved to August 2000. This change conforms with the NEI guideline which requires events to be counted in the month that they were reported. Event was previously counted in the month it occurred. This change does not result in crossing the GREEN/WHITE threshold.

2Q/00: The data point for April 2000 was moved to August 2000. This change conforms with the NEI guideline which requires events to be counted in the month that they were reported. Event was previously counted in the month it occurred. This change does not result in crossing the GREEN/WHITE threshold.

2Q/00: A correction to the data for April 2000 was made to reflect a re-evaluation of the original reportability assessment performed for LER 2000-012. Supplemental LER 2000-012-01 was issued on February 20, 2001 to recharacterize the original event as a loss of safety function. The event occurred on April 19, 2000 when both chilled water pumps associated with the redundant vital DC switchgear cooling systems became air bound. Adjusting the data did not result in any threshold being crossed.

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	0.004580	0.004580	0.004460	0.005470	0.005510	0.005260	0.003990	N/A	0.002960	0.003260	0.003190	0.003530
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.5**	**0.4**	**0.5**	**0.6**	**0.5**	**0.4**	**N/A**	**0.3**	**0.3**	**0.3**	**0.4**

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.003800	0.003700	0.004310	0.003910	0.004290	0.004000
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.230	0.250	0.230	0.170	0.210	0.230	0.150	0.198	0.051	0.050	0.059	0.047
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**2.3**	**2.5**	**2.3**	**1.7**	**2.1**	**2.3**	**1.5**	**2.0**	**0.5**	**0.5**	**0.6**	**0.5**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	0.040	0.053	0.055	0.048	0.025	0.062
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.4**	**0.5**	**0.6**	**0.5**	**0.3**	**0.6**

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
Successful opportunities	12.0	27.0	14.0	0	11.0	0
Total opportunities	14.0	28.0	14.0	0	12.0	0
Indicator value	**90.0%**	**90.0%**	**90.5%**	**90.5%**	**90.0%**	**90.0%**

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	74.0	76.0	55.0	58.0	66.0	60.0
Total Key personnel	74.0	76.0	55.0	71.0	69.0	66.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**81.7%**	**95.7%**	**90.9%**

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	335	304	308	308	474	314
Total sirens-tests	336	306	308	308	474	316
Indicator value	**99.3%**	**99.5%**	**99.7%**	**99.8%**	**99.9%**	**99.9%**

Licensee Comments:

1Q/01: The reporting data was found to be inconsistent with industry norms and not reflective of all tests conducted. Previously reported siren encoder tests were removed, as were 11 sirens located outside of the plume exposure zone. The quarterly growl tests conducted in the 4th quarter, not previously reported, were added in. Adjusting the data had minimal effects on the indicator values and did not result in any threshold being crossed. Consistent with the guidance provided in NEI 99-02 the data has only been corrected back to the 1st quarter 2000.

4Q/00: The reporting data was found to be inconsistent with industry norms and not reflective of all tests conducted. Previously reported siren encoder tests were removed, as were 11 sirens located outside of the plume exposure zone. The quarterly growl tests conducted in the 4th quarter, not previously reported, were added in. Adjusting the data had minimal effects on the indicator values and did not result in any threshold being crossed. Consistent with the guidance provided in NEI 99-02 the data has only been corrected back to the 1st quarter 2000.

3Q/00: The reporting data was found to be inconsistent with industry norms and not reflective of all tests conducted. Previously reported siren encoder tests were removed, as were 11 sirens located outside of the plume exposure zone. The quarterly growl tests conducted in the 4th quarter, not previously reported, were added in. Adjusting the data had minimal effects on the indicator values and did not result in any threshold being crossed. Consistent with the guidance provided in NEI 99-02 the data has only been corrected back to the 1st quarter 2000.

2Q/00: The reporting data was found to be inconsistent with industry norms and not reflective of all tests conducted. Previously reported siren encoder tests were removed, as were 11 sirens located outside of the plume exposure zone. The quarterly growl tests conducted in the 4th quarter, not previously reported, were added in. Adjusting the data had minimal effects on the indicator values and did not result in any threshold being crossed. Consistent with the guidance provided in NEI 99-02 the data has only been corrected back to the 1st quarter 2000.

1Q/00: The reporting data was found to be inconsistent with industry norms and not reflective of all tests conducted. Previously reported siren encoder tests were removed, as were 11 sirens located outside of the plume exposure zone. The quarterly growl tests conducted in the 4th quarter, not previously reported, were added in. Adjusting the data had minimal effects on the indicator values and did not result in any threshold being crossed. Consistent with the guidance provided in NEI 99-02 the data has only been corrected back to the 1st quarter 2000.

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	17.70	29.10	15.10	134.00	1037.00	0
CCTV compensatory hours	0.5	0	29.1	12.9	0	10.5
IDS normalization factor	2.55	2.55	2.50	2.50	2.50	2.50
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1	2.1
Index Value	**0.004**	**0.003**	**0.003**	**0.006**	**0.029**	**0.028**

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

Millstone 2

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	2.0	1.0	0	0	0	2.0
Critical hours	2209.0	1772.0	1264.3	2208.0	2209.0	2160.0	2079.2
Indicator value	**1.3**	**2.9**	**2.9**	**2.8**	**2.8**	**0.9**	**1.6**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Scrams	0	1.0	0	0	0	0	0
Indicator value	**1.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned power changes	0	1.0	0	1.0	0	1.0	1.0
Critical hours	2209.0	1772.0	1264.3	2208.0	2209.0	2160.0	2079.2
Indicator value	**1.3**	**1.9**	**1.9**	**1.9**	**1.9**	**1.8**	**2.4**

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
Train 1							
Planned unavailable hours	32.12	37.00	6.93	29.75	19.88	8.39	16.60
Unplanned unavailable hours	0	0	0	0	6.57	1.02	8.49
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	37.98	40.20	10.54	43.27	17.75	8.39	7.63
Unplanned unavailable hours	0	0	0.02	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	**0.9%**	**1.0%**	**1.0%**	**1.2%**	**1.3%**	**1.1%**	**1.2%**

Licensee Comments:

1Q/01: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

4Q/00: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

3Q/00: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE

threshold.

4Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

3Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

2Q/99: Based on an evaluation conducted during the 2nd quarter 2001, the Planned Unavailable Hours for the 2nd, 3rd, and 4th quarters of 1999, the 3rd and 4th quarters of 2000, and the 1st quarter of 2001 were revised to account for the Diesel Generator not being available during certain testing and air roll evolutions. The addition of these unavailable hours did not result in the indicator crossing the GREEN/WHITE threshold.

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	6.81	11.32	7.01	3.74	3.62	0.06	7.68
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	1913.50	1648.40	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	10.33	14.29	4.46	5.33	1.75	1.11	2.96

Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	654.20	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	1913.50	1648.40	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.4%**	**0.4%**	**0.4%**	**3.1%**	**2.7%**	**2.3%**	**2.1%**

Licensee Comments:

2Q/01: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

1Q/01: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

4Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/00: In accordance with the requirements of NEI 99-02 revision 2, the fault exposure hours were added back in to accommodate the fault exposure hour resetting process.

3Q/00: In accordance with the guidance in NEI 99-02 Fault Exposure Hours for the months of July and August 2000 were removed. Additionally, minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. The removal of the Fault Exposure Hours returned the indicator to the GREEN performance band.

2Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

1Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

4Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	5.50	11.50	6.50	8.60	1.80	0.30	0.50
Unplanned unavailable hours	0	1.00	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	1772.00	1264.30	2208.00	2209.00	2160.00	2079.20
Train 2							
Planned unavailable hours	8.20	2.00	3.50	12.60	2.80	0.60	1.00
Unplanned unavailable hours	0	0	0	0	1.80	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	1772.00	1264.30	2208.00	2209.00	2160.00	2079.20
Train 3							
Planned unavailable hours	5.55	3.75	30.10	4.80	27.30	9.30	7.50
Unplanned unavailable hours	0	5.80	0	30.75	0	0	0
Fault exposure hours	0	0	0	672.50	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	1772.00	1264.30	2208.00	2209.00	2160.00	2079.20
Indicator value	**0.5%**	**0.5%**	**0.6%**	**2.7%**	**2.3%**	**2.0%**	**1.8%**

Licensee Comments:

3Q/00: The Turbine Driven Auxiliary Feedwater (TDAFW) pump failed it's 9/2000 monthly surveillance test. During initial investigation, exact time of failure was unknown. The T/2 rule was used to determine 335.0 fault exposure hours reported in 3rd quarter 2000 submittal. Subsequent analysis completed 5/2001, utilizing analytical tools not previously available, determined failure occurred at conclusion of 8/2000 surveillance. Fault exposure hours revised to include actual hours between failure and discovery, resulting in crossing of GREEN/WHITE threshold (9/2000); mid-quarter correction filed 5/2001. Performance returned to GREEN band 4/2001. All actions in accordance with NEI 99-02 rev. 0.

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	3.84	29.35	23.18	8.01	4.38	5.31	12.68
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	1913.50	1333.00	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	17.62	21.29	3.92	6.33	7.61	5.06	4.46
Unplanned unavailable hours	0	11.06	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	1913.50	1333.00	2208.00	2209.00	2160.00	2183.00
Train 3							
Planned unavailable hours	3.84	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	269.00	826.00	0	0	0	0
Train 4							
Planned unavailable hours	17.62	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0

Required hours	2209.00	269.00	826.00	0	0	0	0
Indicator value	**0.1%**	**0.2%**	**0.2%**	**0.2%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments:

2Q/01: Corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with the hours the system is required. The required hours were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

1Q/01: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

4Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/00: Corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with the hours the system is required. The required hours were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

1Q/00: Corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with the hours the system is required. The required hours were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments:

3Q/00: The data point for April 2000 was moved to August 2000. This change conforms with the NEI guideline which requires events to be counted in the month that they were reported. Event was previously counted in the month it occurred. This change does not result in crossing the GREEN/WHITE threshold.

2Q/00: The data point for April 2000 was moved to August 2000. This change conforms with the NEI guideline which requires events to be counted in the month that they were reported. Event was previously counted in the month it occurred. This change does not result in crossing the GREEN/WHITE threshold.

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	0.004580	0.004580	0.004460	0.005470	0.005510	0.005260	0.003990	N/A	0.002960	0.003260	0.003190	0.003530
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.5**	**0.4**	**0.5**	**0.6**	**0.5**	**0.4**	**N/A**	**0.3**	**0.3**	**0.3**	**0.4**

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.003800	0.003700	0.004310	0.003910	0.004290	0.004000	0.004110	0.004440	0.004520
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.230	0.250	0.230	0.170	0.210	0.230	0.150	0.198	0.051	0.050	0.059	0.047
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**2.3**	**2.5**	**2.3**	**1.7**	**2.1**	**2.3**	**1.5**	**2.0**	**0.5**	**0.5**	**0.6**	**0.5**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	0.040	0.053	0.055	0.048	0.025	0.062	0.060	0.056	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.4**	**0.5**	**0.6**	**0.5**	**0.3**	**0.6**	**0.6**	**0.6**	**0.5**

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
Successful opportunities	12.0	27.0	14.0	0	11.0	0	41.0
Total opportunities	14.0	28.0	14.0	0	12.0	0	45.0
Indicator value	**90.0%**	**90.0%**	**90.5%**	**90.5%**	**90.0%**	**90.0%**	**90.2%**

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
Participating Key personnel	74.0	76.0	55.0	58.0	66.0	60.0	71.0
Total Key personnel	74.0	76.0	55.0	71.0	69.0	66.0	74.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**81.7%**	**95.7%**	**90.9%**	**95.9%**

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	335	304	308	308	474	314	316
Total sirens-tests	336	306	308	308	474	316	316
Indicator value	**99.3%**	**99.5%**	**99.7%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
IDS compensatory hours	17.70	29.10	15.10	134.00	1037.00	0	28.70
CCTV compensatory hours	0.5	0	29.1	12.9	0	10.5	0
IDS normalization factor	2.55	2.55	2.50	2.50	2.50	2.50	2.50
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Index Value	**0.004**	**0.003**	**0.003**	**0.006**	**0.029**	**0.028**	**0.028**

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

PI Summary | Inspection Findings Summary | Action Matrix Summary | Reactor Oversight Process

Last Modified: March 27, 2002

Millstone 2

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	2.0	1.0	0	0	0	2.0	0
Critical hours	2209.0	1772.0	1264.3	2208.0	2209.0	2160.0	2079.2	2208.0
Indicator value	**1.3**	**2.9**	**2.9**	**2.8**	**2.8**	**0.9**	**1.6**	**1.6**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Scrams	0	1.0	0	0	0	0	0	0
Indicator value	**1.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned power changes	0	1.0	0	1.0	0	1.0	1.0	0
Critical hours	2209.0	1772.0	1264.3	2208.0	2209.0	2160.0	2079.2	2208.0
Indicator value	**1.3**	**1.9**	**1.9**	**1.9**	**1.9**	**1.8**	**2.4**	**1.6**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	32.12	37.00	6.93	29.75	19.88	8.39	16.60	1.57
Unplanned unavailable hours	0	0	0	0	6.57	1.02	8.49	2.57
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	37.98	40.20	10.54	43.27	17.75	8.39	7.63	13.78
Unplanned unavailable hours	0	0	0.02	0	0	0	0	5.22
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.9%**	**1.0%**	**1.0%**	**1.2%**	**1.3%**	**1.1%**	**1.2%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	6.81	11.32	7.01	3.74	3.62	0.06	7.68	1.93
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	2209.00	1913.50	1648.40	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	10.33	14.29	4.46	5.33	1.75	1.11	2.96	7.58
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	654.20	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	648.28
Required hours	2209.00	1913.50	1648.40	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.4%**	**0.4%**	**0.4%**	**3.1%**	**2.7%**	**2.3%**	**2.1%**	**0.3%**

Licensee Comments:

2Q/01: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

1Q/01: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

4Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/00: In accordance with the requirements of NEI 99-02 revision 2, the fault exposure hours were added back in to accommodate the fault exposure hour resetting process.

3Q/00: In accordance with the guidance in NEI 99-02 Fault Exposure Hours for the months of July and August 2000 were removed. Additionally, minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. The removal of the Fault Exposure Hours returned the indicator to the GREEN performance band.

2Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

1Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

4Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. Additionally, the hours the system is required were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). These changes do not result in crossing the GREEN/WHITE threshold.

Effective Reset Comments:

3Q/01: In accordance with the requirements of NEI 99-02 revision 2, the fault exposure hours were reset and the unplanned unavailable hours were added back in.

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01

Train 1								
Planned unavailable hours	5.50	11.50	6.50	8.60	1.80	0.30	0.50	0.20
Unplanned unavailable hours	0	1.00	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	1772.00	1264.30	2208.00	2209.00	2160.00	2079.20	2208.00
Train 2								
Planned unavailable hours	8.20	2.00	3.50	12.60	2.80	0.60	1.00	10.10
Unplanned unavailable hours	0	0	0	0	1.80	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	2209.00	1772.00	1264.30	2208.00	2209.00	2160.00	2079.20	2208.00
Train 3								
Planned unavailable hours	5.55	3.75	30.10	4.80	27.30	9.30	7.50	3.00
Unplanned unavailable hours	0	5.80	0	30.75	0	0	0	21.00
Fault exposure hours	0	0	0	672.50	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1772.00	1264.30	2208.00	2209.00	2160.00	2079.20	2208.00
Indicator value	**0.5%**	**0.5%**	**0.6%**	**2.7%**	**2.3%**	**2.0%**	**1.8%**	**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/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	3.84	29.35	23.18	8.01	4.38	5.31	12.68	7.46
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	1913.50	1333.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	17.62	21.29	3.92	6.33	7.61	5.06	4.46	5.91
Unplanned unavailable hours	0	11.06	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	1913.50	1333.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	3.84	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	269.00	826.00	0	0	0	0	0
Train 4								
Planned unavailable hours	17.62	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	269.00	826.00	0	0	0	0	0
Indicator value	**0.1%**	**0.2%**	**0.2%**	**0.2%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments:

2Q/01: Corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with the hours the system is required. The required hours were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

1Q/01: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

4Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/00: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/00: Corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with the hours the system is required. The required hours were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

1Q/00: Corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with the hours the system is required. The required hours were revised to be the actual hours the system is required by Tech Specs vs. the default hours (critical hours). Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

3Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

2Q/99: Minor corrections were made to system unavailable hours due to misinterpretation of the guide lines associated with taking credit for operator actions during valve stroking. This change does not result in crossing the GREEN/WHITE threshold.

Thresholds: White > 5.0

Notes

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

Licensee Comments:

3Q/00: The data point for April 2000 was moved to August 2000. This change conforms with the NEI guideline which requires events to be counted in the month that they were reported. Event was previously counted in the month it occurred. This change does not result in crossing the GREEN/WHITE threshold.

2Q/00: The data point for April 2000 was moved to August 2000. This change conforms with the NEI guideline which requires events to be counted in the month that they were reported. Event was previously counted in the month it occurred. This change does not result in crossing the GREEN/WHITE threshold.

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	0.004580	0.004580	0.004460	0.005470	0.005510	0.005260	0.003990	N/A	0.002960	0.003260	0.003190	0.003530
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.5**	**0.4**	**0.5**	**0.6**	**0.5**	**0.4**	**N/A**	**0.3**	**0.3**	**0.3**	**0.4**

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	0.003800	0.003700	0.004310	0.003910	0.004290	0.004000	0.004110	0.004440	0.004520	0.004500	0.004680	0.004890
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.230	0.250	0.230	0.170	0.210	0.230	0.150	0.198	0.051	0.050	0.059	0.047
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**2.3**	**2.5**	**2.3**	**1.7**	**2.1**	**2.3**	**1.5**	**2.0**	**0.5**	**0.5**	**0.6**	**0.5**

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	0.040	0.053	0.055	0.048	0.025	0.062	0.060	0.056	0.050	0.035	0.068	0.077
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.4**	**0.5**	**0.6**	**0.5**	**0.3**	**0.6**	**0.6**	**0.6**	**0.5**	**0.4**	**0.7**	**0.8**

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	12.0	27.0	14.0	0	11.0	0	41.0	18.0
Total opportunities	14.0	28.0	14.0	0	12.0	0	45.0	19.0
Indicator value	**90.0%**	**90.0%**	**90.5%**	**90.5%**	**90.0%**	**90.0%**	**90.2%**	**93.2%**

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	74.0	76.0	55.0	58.0	66.0	60.0	71.0	68.0
Total Key personnel	74.0	76.0	55.0	71.0	69.0	66.0	74.0	73.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**81.7%**	**95.7%**	**90.9%**	**95.9%**	**93.2%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Successful siren-tests	335	304	308	308	474	314	316	463
Total sirens-tests	336	306	308	308	474	316	316	477
Indicator value	**99.3%**	**99.5%**	**99.7%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**99.0%**

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

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
IDS compensatory hours	17.70	29.10	15.10	134.00	1037.00	0	28.70	1.50
CCTV compensatory hours	0.5	0	29.1	12.9	0	10.5	0	0
IDS normalization factor	2.55	2.55	2.50	2.50	2.50	2.50	2.50	2.50
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Index Value	**0.004**	**0.003**	**0.003**	**0.006**	**0.029**	**0.028**	**0.028**	**0.025**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Millstone 2

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	2.0	1.0	0	0	0	2.0	0	0
Critical hours	1772.0	1264.3	2208.0	2209.0	2160.0	2079.2	2208.0	2209.0
Indicator value	**2.9**	**2.9**	**2.8**	**2.8**	**0.9**	**1.6**	**1.6**	**1.6**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Scrams	1.0	0	0	0	0	0	0	0
Indicator value	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned power changes	1.0	0	1.0	0	1.0	1.0	0	0
Critical hours	1772.0	1264.3	2208.0	2209.0	2160.0	2079.2	2208.0	2209.0
Indicator value	**1.9**	**1.9**	**1.9**	**1.9**	**1.8**	**2.4**	**1.6**	**1.6**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	37.00	6.93	29.75	19.88	8.39	16.60	1.57	23.64
Unplanned unavailable hours	0	0	0	6.57	1.02	8.49	2.57	31.17
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	40.20	10.54	43.27	17.75	8.39	7.63	13.78	2.95
Unplanned unavailable hours	0	0.02	0	0	0	0	5.22	1.33
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**1.0%**	**1.0%**	**1.2%**	**1.3%**	**1.1%**	**1.2%**	**1.1%**	**1.2%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	11.32	7.01	3.74	3.62	0.06	7.68	1.93	2.00
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	1913.50	1648.40	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	14.29	4.46	5.33	1.75	1.11	2.96	7.58	5.82
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	654.20	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	648.28	0
Required hours	1913.50	1648.40	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.4%**	**0.4%**	**3.1%**	**2.7%**	**2.3%**	**2.1%**	**0.3%**	**0.3%**

Licensee Comments:

3Q/00: In accordance with the requirements of NEI 99-02 revision 2, the fault exposure hours were added back in to accommodate the fault exposure hour resetting process.

Effective Reset Comments:

3Q/01: In accordance with the requirements of NEI 99-02 revision 2, the fault exposure hours were reset and the unplanned unavailable hours were added back in.

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	11.50	6.50	8.60	1.80	0.30	0.50	0.20	4.20
Unplanned unavailable hours	1.00	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	1772.00	1264.30	2208.00	2209.00	2160.00	2079.20	2208.00	2209.00
Train 2								
Planned unavailable hours	2.00	3.50	12.60	2.80	0.60	1.00	10.10	2.20
Unplanned unavailable hours	0	0	0	1.80	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1772.00	1264.30	2208.00	2209.00	2160.00	2079.20	2208.00	2209.00
Train 3								
Planned unavailable hours	3.75	30.10	4.80	27.30	9.30	7.50	3.00	9.70
Unplanned unavailable hours	5.80	0	30.75	0	0	0	21.00	0
Fault exposure hours	0	0	672.50	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1772.00	1264.30	2208.00	2209.00	2160.00	2079.20	2208.00	2209.00
Indicator value	**0.5%**	**0.6%**	**2.7%**	**2.3%**	**2.0%**	**1.8%**	**1.7%**	**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/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	29.35	23.18	8.01	4.38	5.31	12.68	7.46	25.70
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	1913.50	1333.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	21.29	3.92	6.33	7.61	5.06	4.46	5.91	9.14
Unplanned unavailable hours	11.06	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	1913.50	1333.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	269.00	826.00	0	0	0	0	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	269.00	826.00	0	0	0	0	0	0
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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	0.005470	0.005510	0.005260	0.003990	N/A	0.002960	0.003260	0.003190	0.003530	0.003800	0.003700	0.004310
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.6**	**0.5**	**0.4**	**N/A**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**

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	0.003910	0.004290	0.004000	0.004110	0.004440	0.004520	0.004500	0.004680	0.004890	0.005150	0.005430	0.001240
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**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	0.170	0.210	0.230	0.150	0.198	0.051	0.050	0.059	0.047	0.040	0.053	0.055
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.7**	**2.1**	**2.3**	**1.5**	**2.0**	**0.5**	**0.5**	**0.6**	**0.5**	**0.4**	**0.5**	**0.6**

Reactor Coolant System Leakage	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum leakage	0.048	0.025	0.062	0.060	0.056	0.050	0.035	0.068	0.077	0.116	0.091	0.087
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.5**	**0.3**	**0.6**	**0.6**	**0.6**	**0.5**	**0.4**	**0.7**	**0.8**	**1.2**	**0.9**	**0.9**

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	27.0	14.0	0	11.0	0	41.0	18.0	31.0
Total opportunities	28.0	14.0	0	12.0	0	45.0	19.0	36.0
Indicator value	**90.0%**	**90.5%**	**90.5%**	**90.0%**	**90.0%**	**90.2%**	**93.2%**	**92.2%**

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	76.0	55.0	58.0	66.0	60.0	71.0	68.0	92.0
Total Key personnel	76.0	55.0	71.0	69.0	66.0	74.0	73.0	95.0
Indicator value	**100.0%**	**100.0%**	**81.7%**	**95.7%**	**90.9%**	**95.9%**	**93.2%**	**96.8%**

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	304	308	308	474	314	316	463	313
Total sirens-tests	306	308	308	474	316	316	477	318
Indicator value	**99.5%**	**99.7%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**99.0%**	**98.5%**

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	29.10	15.10	134.00	1037.00	0	28.70	1.50	0
CCTV compensatory hours	0	29.1	12.9	0	10.5	0	0	0
IDS normalization factor	2.55	2.50	2.50	2.50	2.50	2.50	2.50	2.50
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Index Value	**0.003**	**0.003**	**0.006**	**0.029**	**0.028**	**0.028**	**0.025**	**0.001**

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

PI Summary | Inspection Findings Summary | Action Matrix Summary | Reactor Oversight Process

Last Modified: March 15, 2002

Millstone 2

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	1.0	0	0	0	2.0	0	0	0
Critical hours	1264.3	2208.0	2209.0	2160.0	2079.2	2208.0	2209.0	1112.3
Indicator value	**2.9**	**2.8**	**2.8**	**0.9**	**1.6**	**1.6**	**1.6**	**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	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned power changes	0	1.0	0	1.0	1.0	0	0	0
Critical hours	1264.3	2208.0	2209.0	2160.0	2079.2	2208.0	2209.0	1112.3
Indicator value	**1.9**	**1.9**	**1.9**	**1.8**	**2.4**	**1.6**	**1.6**	**0.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	6.93	29.75	19.88	8.39	16.60	1.57	23.64	9.47
Unplanned unavailable hours	0	0	6.57	1.02	8.49	2.57	31.17	19.19
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	1783.66
Train 2								
Planned unavailable hours	10.54	43.27	17.75	8.39	7.63	13.78	2.95	14.64
Unplanned unavailable hours	0.02	0	0	0	0	5.22	1.33	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	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	1592.81
Indicator value	**1.0%**	**1.2%**	**1.3%**	**1.1%**	**1.2%**	**1.1%**	**1.2%**	**1.2%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	7.01	3.74	3.62	0.06	7.68	1.93	2.00	0.51
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	1648.40	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	1194.56
Train 2								
Planned unavailable hours	4.46	5.33	1.75	1.11	2.96	7.58	5.82	23.46
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	654.20	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	648.28	0	0
Required hours	1648.40	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	1194.56
Indicator value	**0.4%**	**3.1%**	**2.7%**	**2.3%**	**2.1%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	6.50	8.60	1.80	0.30	0.50	0.20	4.20	12.50
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	1264.30	2208.00	2209.00	2160.00	2079.20	2208.00	2209.00	1112.30
Train 2								
Planned unavailable hours	3.50	12.60	2.80	0.60	1.00	10.10	2.20	0
Unplanned unavailable hours	0	0	1.80	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	1264.30	2208.00	2209.00	2160.00	2079.20	2208.00	2209.00	1112.30
Train 3								
Planned unavailable hours	30.10	4.80	27.30	9.30	7.50	3.00	9.70	21.00
Unplanned unavailable hours	0	30.75	0	0	0	21.00	0	1.00
Fault exposure hours	0	672.50	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1264.30	2208.00	2209.00	2160.00	2079.20	2208.00	2209.00	1112.30
Indicator value	**0.6%**	**2.7%**	**2.3%**	**2.0%**	**1.8%**	**1.7%**	**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	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	23.18	8.01	4.38	5.31	12.68	7.46	25.70	2.96
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	1333.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	1181.10
Train 2								
Planned unavailable hours	3.92	6.33	7.61	5.06	4.46	5.91	9.14	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	1333.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	1181.10
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	826.00	0	0	0	0	0	0	971.30
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	826.00	0	0	0	0	0	0	971.30
Indicator value	**0.2%**	**0.2%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.003990	N/A	0.002960	0.003260	0.003190	0.003530	0.003800	0.003700	0.004310	0.003910	0.004290	0.004000
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**N/A**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**

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	0.004110	0.004440	0.004520	0.004500	0.004680	0.004890	0.005150	0.005430	0.001240	0.012600	0.007420	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.1**	**1.3**	**0.7**	**N/A**

Licensee Comments:

3/02: The unit was shut down for refueling for the month of March.

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	0.150	0.198	0.051	0.050	0.059	0.047	0.040	0.053	0.055	0.048	0.025	0.062
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.5**	**2.0**	**0.5**	**0.5**	**0.6**	**0.5**	**0.4**	**0.5**	**0.6**	**0.5**	**0.3**	**0.6**

Reactor Coolant System Leakage	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum leakage	0.060	0.056	0.050	0.035	0.068	0.077	0.116	0.091	0.087	0.124	0.094	N/A
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.6**	**0.6**	**0.5**	**0.4**	**0.7**	**0.8**	**1.2**	**0.9**	**0.9**	**1.2**	**0.9**	**N/A**

Licensee Comments:

3/02: The unit was shut down for refueling for the month of March.

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	14.0	0	11.0	0	41.0	18.0	31.0	0
Total opportunities	14.0	0	12.0	0	45.0	19.0	36.0	0
Indicator value	**90.5%**	**90.5%**	**90.0%**	**90.0%**	**90.2%**	**93.2%**	**92.2%**	**91.3%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Participating Key personnel	55.0	58.0	66.0	60.0	71.0	68.0	92.0	83.0
Total Key personnel	55.0	71.0	69.0	66.0	74.0	73.0	95.0	85.0
Indicator value	**100.0%**	**81.7%**	**95.7%**	**90.9%**	**95.9%**	**93.2%**	**96.8%**	**97.6%**

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	308	308	474	314	316	463	313	316
Total sirens-tests	308	308	474	316	316	477	318	318
Indicator value	**99.7%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**99.0%**	**98.5%**	**98.5%**

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	15.10	134.00	1037.00	0	28.70	1.50	0	4.80
CCTV compensatory hours	29.1	12.9	0	10.5	0	0	0	0.1
IDS normalization factor	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Index Value	**0.003**	**0.006**	**0.029**	**0.028**	**0.028**	**0.025**	**0.001**	**0.001**

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

Millstone 2

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	2.0	0	0	0	1.0
Critical hours	2208.0	2209.0	2160.0	2079.2	2208.0	2209.0	1112.3	1993.6
Indicator value	**2.8**	**2.8**	**0.9**	**1.6**	**1.6**	**1.6**	**1.8**	**0.9**

Licensee Comments: none

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	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**1.0**

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	1.0	1.0	0	0	0	1.0
Critical hours	2208.0	2209.0	2160.0	2079.2	2208.0	2209.0	1112.3	1993.6
Indicator value	**1.9**	**1.9**	**1.8**	**2.4**	**1.6**	**1.6**	**0.9**	**0.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	29.75	19.88	8.39	16.60	1.57	23.64	9.47	3.29
Unplanned unavailable hours	0	6.57	1.02	8.49	2.57	31.17	19.19	0
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	1783.66	2183.00
Train 2								
Planned unavailable hours	43.27	17.75	8.39	7.63	13.78	2.95	14.64	20.72
Unplanned unavailable hours	0	0	0	0	5.22	1.33	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	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	1592.81	2183.00
Indicator value	**1.2%**	**1.3%**	**1.1%**	**1.2%**	**1.1%**	**1.2%**	**1.2%**	**1.2%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	**3Q/00**	**4Q/00**	**1Q/01**	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**
Train 1								
Planned unavailable hours	3.74	3.62	0.06	7.68	1.93	2.00	0.51	1.67
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	1194.56	2032.12
Train 2								
Planned unavailable hours	5.33	1.75	1.11	2.96	7.58	5.82	23.46	12.32
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	654.20	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	648.28	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	1194.56	2032.12
Indicator value	**3.1%**	**2.7%**	**2.3%**	**2.1%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	8.60	1.80	0.30	0.50	0.20	4.20	12.50	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2079.20	2208.00	2209.00	1112.30	1973.50
Train 2								
Planned unavailable hours	12.60	2.80	0.60	1.00	10.10	2.20	0	0
Unplanned unavailable hours	0	1.80	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	2079.20	2208.00	2209.00	1112.30	1973.50
Train 3								
Planned unavailable hours	4.80	27.30	9.30	7.50	3.00	9.70	21.00	0
Unplanned unavailable hours	30.75	0	0	0	21.00	0	1.00	0
Fault exposure hours	672.50	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	2079.20	2208.00	2209.00	1112.30	1973.50
Indicator value	**2.7%**	**2.3%**	**2.0%**	**1.8%**	**1.7%**	**1.5%**	**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	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	8.01	4.38	5.31	12.68	7.46	25.70	2.96	11.01
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	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	1181.10	2032.12
Train 2								
Planned unavailable hours	6.33	7.61	5.06	4.46	5.91	9.14	5.11	27.88
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	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	1181.10	2032.12
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	0	0	971.30	131.00
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	0	0	971.30	131.00
Indicator value	**0.2%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Safety System Functional Failures	1	0	0	0	0	1	0	0
Indicator value	**1**	**1**	**1**	**1**	**0**	**1**	**1**	**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	0.003260	0.003190	0.003530	0.003800	0.003700	0.004310	0.003910	0.004290	0.004000	0.004110	0.004440	0.004520
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**

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	0.004500	0.004680	0.004890	0.005150	0.005430	0.001240	0.012600	0.007420	N/A	0.003230	0.004840	0.005450
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.1**	**1.3**	**0.7**	**N/A**	**0.3**	**0.5**	**0.5**

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	0.050	0.059	0.047	0.040	0.053	0.055	0.048	0.025	0.062	0.060	0.056	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.5**	**0.6**	**0.5**	**0.4**	**0.5**	**0.6**	**0.5**	**0.3**	**0.6**	**0.6**	**0.6**	**0.5**

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	0.035	0.068	0.077	0.116	0.091	0.087	0.124	0.094	N/A	0.054	0.055	0.031
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.4**	**0.7**	**0.8**	**1.2**	**0.9**	**0.9**	**1.2**	**0.9**	**N/A**	**0.5**	**0.6**	**0.3**

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	0	11.0	0	41.0	18.0	31.0	0	30.0
Total opportunities	0	12.0	0	45.0	19.0	36.0	0	32.0
Indicator value	**90.5%**	**90.0%**	**90.0%**	**90.2%**	**93.2%**	**92.2%**	**91.3%**	**91.0%**

Licensee Comments: none

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	58.0	66.0	60.0	71.0	68.0	92.0	83.0	79.0
Total Key personnel	71.0	69.0	66.0	74.0	73.0	95.0	85.0	84.0
Indicator value	**81.7%**	**95.7%**	**90.9%**	**95.9%**	**93.2%**	**96.8%**	**97.6%**	**94.0%**

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	308	474	314	316	463	313	316	314
Total sirens-tests	308	474	316	316	477	318	318	318
Indicator value	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**99.0%**	**98.5%**	**98.5%**	**98.3%**

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	134.00	1037.00	0	28.70	1.50	0	4.80	0
CCTV compensatory hours	12.9	0	10.5	0	0	0	0.1	5.2
IDS normalization factor	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Index Value	**0.006**	**0.029**	**0.028**	**0.028**	**0.025**	**0.001**	**0.001**	**0**

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

Millstone 2

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	2.0	0	0	0	1.0	1.0
Critical hours	2209.0	2160.0	2079.2	2208.0	2209.0	1112.3	1993.6	2067.3
Indicator value	**2.8**	**0.9**	**1.6**	**1.6**	**1.6**	**1.8**	**0.9**	**1.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**1.0**	**1.0**

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	1.0	1.0	0	0	0	1.0	1.0
Critical hours	2209.0	2160.0	2079.2	2208.0	2209.0	1112.3	1993.6	2067.3
Indicator value	**1.9**	**1.8**	**2.4**	**1.6**	**1.6**	**0.9**	**0.9**	**1.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	19.88	8.39	16.60	1.57	23.64	9.47	3.29	33.37
Unplanned unavailable hours	6.57	1.02	8.49	2.57	31.17	19.19	0	10.68
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	1783.66	2183.00	2208.00
Train 2								
Planned unavailable hours	17.75	8.39	7.63	13.78	2.95	14.64	20.72	24.09
Unplanned unavailable hours	0	0	0	5.22	1.33	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	1592.81	2183.00	2208.00
Indicator value	**1.3%**	**1.1%**	**1.2%**	**1.1%**	**1.2%**	**1.2%**	**1.2%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	**4Q/00**	**1Q/01**	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**
Train 1								
Planned unavailable hours	3.62	0.06	7.68	1.93	2.00	0.51	1.67	0.45
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	1194.56	2032.12	2208.00
Train 2								
Planned unavailable hours	1.75	1.11	2.96	7.58	5.82	23.46	12.32	8.61
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	648.28	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	1194.56	2032.12	2208.00
Indicator value	**2.7%**	**2.3%**	**2.1%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	1.80	0.30	0.50	0.20	4.20	12.50	0	1.00
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	2209.00	2160.00	2079.20	2208.00	2209.00	1112.30	1973.50	2067.30
Train 2								
Planned unavailable hours	2.80	0.60	1.00	10.10	2.20	0	0	0
Unplanned unavailable hours	1.80	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	2079.20	2208.00	2209.00	1112.30	1973.50	2067.30
Train 3								
Planned unavailable hours	27.30	9.30	7.50	3.00	9.70	21.00	0	0
Unplanned unavailable hours	0	0	0	21.00	0	1.00	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2079.20	2208.00	2209.00	1112.30	1973.50	2067.30
Indicator value	**2.3%**	**2.0%**	**1.8%**	**1.7%**	**1.5%**	**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	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	4.38	5.31	12.68	7.46	25.70	2.96	11.01	7.96
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	1181.10	2032.12	2208.00
Train 2								
Planned unavailable hours	7.61	5.06	4.46	5.91	9.14	5.11	27.88	5.62
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	1181.10	2032.12	2208.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	0	971.30	131.00	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	0	971.30	131.00	0
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/00**	**11/00**	**12/00**	**1/01**	**2/01**	**3/01**	**4/01**	**5/01**	**6/01**	**7/01**	**8/01**	**9/01**
Maximum activity	0.003800	0.003700	0.004310	0.003910	0.004290	0.004000	0.004110	0.004440	0.004520	0.004500	0.004680	0.004890
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**

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	0.005150	0.005430	0.001240	0.012600	0.007420	N/A	0.003230	0.004840	0.005450	0.005520	0.006330	0.006400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.5**	**0.1**	**1.3**	**0.7**	**N/A**	**0.3**	**0.5**	**0.5**	**0.6**	**0.6**	**0.6**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum leakage	0.040	0.053	0.055	0.048	0.025	0.062	0.060	0.056	0.050	0.035	0.068	0.077
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.4**	**0.5**	**0.6**	**0.5**	**0.3**	**0.6**	**0.6**	**0.6**	**0.5**	**0.4**	**0.7**	**0.8**

Reactor Coolant System Leakage	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum leakage	0.116	0.091	0.087	0.124	0.094	N/A	0.054	0.055	0.031	0.022	0.070	0.026
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.2**	**0.9**	**0.9**	**1.2**	**0.9**	**N/A**	**0.5**	**0.6**	**0.3**	**0.2**	**0.7**	**0.3**

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	11.0	0	41.0	18.0	31.0	0	30.0	36.0
Total opportunities	12.0	0	45.0	19.0	36.0	0	32.0	37.0
Indicator value	**90.0%**	**90.0%**	**90.2%**	**93.2%**	**92.2%**	**91.3%**	**91.0%**	**92.3%**

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	66.0	60.0	71.0	68.0	92.0	83.0	79.0	93.0
Total Key personnel	69.0	66.0	74.0	73.0	95.0	85.0	84.0	98.0
Indicator value	**95.7%**	**90.9%**	**95.9%**	**93.2%**	**96.8%**	**97.6%**	**94.0%**	**94.9%**

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	474	314	316	463	313	316	314	470
Total sirens-tests	474	316	316	477	318	318	318	477
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.0%**	**98.5%**	**98.5%**	**98.3%**	**98.7%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
IDS compensatory hours	1037.00	0	28.70	1.50	0	4.80	0	0
CCTV compensatory hours	0	10.5	0	0	0	0.1	5.2	21.4
IDS normalization factor	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Index Value	**0.029**	**0.028**	**0.028**	**0.025**	**0.001**	**0.001**	**0**	**0.001**

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

Millstone 2

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	2.0	0	0	0	1.0	1.0	0
Critical hours	2160.0	2079.2	2208.0	2209.0	1112.3	1993.6	2067.3	2209.0
Indicator value	**0.9**	**1.6**	**1.6**	**1.6**	**1.8**	**0.9**	**1.9**	**1.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

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	1.0	1.0	0	0	0	1.0	1.0	0
Critical hours	2160.0	2079.2	2208.0	2209.0	1112.3	1993.6	2067.3	2209.0
Indicator value	**1.8**	**2.4**	**1.6**	**1.6**	**0.9**	**0.9**	**1.9**	**1.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	8.39	16.60	1.57	23.64	9.47	3.29	33.37	16.72
Unplanned unavailable hours	1.02	8.49	2.57	31.17	19.19	0	10.68	17.81
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	1783.66	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	8.39	7.63	13.78	2.95	14.64	20.72	24.09	22.13
Unplanned unavailable hours	0	0	5.22	1.33	0	0	0	27.66
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	1592.81	2183.00	2208.00	2209.00
Indicator value	**1.1%**	**1.2%**	**1.1%**	**1.2%**	**1.2%**	**1.2%**	**1.1%**	**1.1%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	0.06	7.68	1.93	2.00	0.51	1.67	0.45	15.76
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	1194.56	2032.12	2208.00	2205.00
Train 2								
Planned unavailable hours	1.11	2.96	7.58	5.82	23.46	12.32	8.61	6.02
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	648.28	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1194.56	2032.12	2208.00	2209.00
Indicator value	**2.3%**	**2.1%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	0.30	0.50	0.20	4.20	12.50	0	1.00	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2079.20	2208.00	2209.00	1112.30	1973.50	2067.30	2209.00
Train 2								
Planned unavailable hours	0.60	1.00	10.10	2.20	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2079.20	2208.00	2209.00	1112.30	1973.50	2067.30	2209.00
Train 3								
Planned unavailable hours	9.30	7.50	3.00	9.70	21.00	0	0	0
Unplanned unavailable hours	0	0	21.00	0	1.00	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2079.20	2208.00	2209.00	1112.30	1973.50	2067.30	2209.00
Indicator value	**2.0%**	**1.8%**	**1.7%**	**1.5%**	**1.5%**	**1.4%**	**1.4%**	**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	5.31	12.68	7.46	25.70	2.96	11.01	7.96	66.32
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1181.10	2032.12	2208.00	2209.00
Train 2								
Planned unavailable hours	5.06	4.46	5.91	9.14	5.11	27.88	5.62	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	2160.00	2183.00	2208.00	2209.00	1181.10	2032.12	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	971.30	131.00	0	2209.00
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	971.30	131.00	0	2209.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.3%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/01**	**2/01**	**3/01**	**4/01**	**5/01**	**6/01**	**7/01**	**8/01**	**9/01**	**10/01**	**11/01**	**12/01**
Maximum activity	0.003910	0.004290	0.004000	0.004110	0.004440	0.004520	0.004500	0.004680	0.004890	0.005150	0.005430	0.001240
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.1**

Reactor Coolant System Activity	**1/02**	**2/02**	**3/02**	**4/02**	**5/02**	**6/02**	**7/02**	**8/02**	**9/02**	**10/02**	**11/02**	**12/02**
Maximum activity	0.012600	0.007420	N/A	0.003230	0.004840	0.005450	0.005520	0.006330	0.006400	0.006910	0.006970	0.008180
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**1.3**	**0.7**	**N/A**	**0.3**	**0.5**	**0.5**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**0.8**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum leakage	0.048	0.025	0.062	0.060	0.056	0.050	0.035	0.068	0.077	0.116	0.091	0.087
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.5**	**0.3**	**0.6**	**0.6**	**0.6**	**0.5**	**0.4**	**0.7**	**0.8**	**1.2**	**0.9**	**0.9**

Reactor Coolant System Leakage	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum leakage	0.124	0.094	N/A	0.054	0.055	0.031	0.022	0.070	0.026	0.027	0.043	0.057
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.2**	**0.9**	**N/A**	**0.5**	**0.6**	**0.3**	**0.2**	**0.7**	**0.3**	**0.3**	**0.4**	**0.6**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful opportunities	0	41.0	18.0	31.0	0	30.0	36.0	45.0
Total opportunities	0	45.0	19.0	36.0	0	32.0	37.0	47.0
Indicator value	**90.0%**	**90.2%**	**93.2%**	**92.2%**	**91.3%**	**91.0%**	**92.3%**	**93.1%**

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	60.0	71.0	68.0	92.0	83.0	79.0	93.0	100.0
Total Key personnel	66.0	74.0	73.0	95.0	85.0	84.0	98.0	101.0
Indicator value	**90.9%**	**95.9%**	**93.2%**	**96.8%**	**97.6%**	**94.0%**	**94.9%**	**99.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful siren-tests	314	316	463	313	316	314	470	314
Total sirens-tests	316	316	477	318	318	318	477	318
Indicator value	**99.9%**	**99.9%**	**99.0%**	**98.5%**	**98.5%**	**98.3%**	**98.7%**	**98.8%**

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

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
IDS compensatory hours	0	28.70	1.50	0	4.80	0	0	0
CCTV compensatory hours	10.5	0	0	0	0.1	5.2	21.4	0
IDS normalization factor	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Index Value	**0.028**	**0.028**	**0.025**	**0.001**	**0.001**	**0**	**0.001**	**0.001**

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

Millstone 2

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	2.0	0	0	0	1.0	1.0	0	1.0
Critical hours	2079.2	2208.0	2209.0	1112.3	1993.6	2067.3	2209.0	1711.2
Indicator value	**1.6**	**1.6**	**1.6**	**1.8**	**0.9**	**1.9**	**1.9**	**2.6**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Scrams	0	0	0	0	0	0	0	0
Indicator value	**2.0**	**2.0**	**2.0**	**2.0**	**1.0**	**1.0**	**1.0**	**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	1.0	0	0	0	1.0	1.0	0	0
Critical hours	2079.2	2208.0	2209.0	1112.3	1993.6	2067.3	2209.0	1711.2
Indicator value	**2.4**	**1.6**	**1.6**	**0.9**	**0.9**	**1.9**	**1.9**	**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	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	16.60	1.57	23.64	9.47	3.29	33.37	16.72	1.72
Unplanned unavailable hours	8.49	2.57	31.17	19.19	0	10.68	17.81	0
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	1783.66	2183.00	2208.00	2209.00	2073.86
Train 2								
Planned unavailable hours	7.63	13.78	2.95	14.64	20.72	24.09	22.13	14.68
Unplanned unavailable hours	0	5.22	1.33	0	0	0	27.66	0
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	1592.81	2183.00	2208.00	2209.00	1872.00
Indicator value	**1.2%**	**1.1%**	**1.2%**	**1.2%**	**1.2%**	**1.1%**	**1.1%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**
Train 1								
Planned unavailable hours	7.68	1.93	2.00	0.51	1.67	0.45	15.76	4.40
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	2183.00	2208.00	2209.00	1194.56	2032.12	2208.00	2205.00	1767.00
Train 2								
Planned unavailable hours	2.96	7.58	5.82	23.46	12.32	8.61	6.02	1.00
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	648.28	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1194.56	2032.12	2208.00	2209.00	1767.00
Indicator value	**2.1%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0.50	0.20	4.20	12.50	0	1.00	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2079.20	2208.00	2209.00	1112.30	1973.50	2067.30	2209.00	1769.00
Train 2								
Planned unavailable hours	1.00	10.10	2.20	0	0	0	0	9.00
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	2079.20	2208.00	2209.00	1112.30	1973.50	2067.30	2209.00	1769.00
Train 3								
Planned unavailable hours	7.50	3.00	9.70	21.00	0	0	0	13.75
Unplanned unavailable hours	0	21.00	0	1.00	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2079.20	2208.00	2209.00	1112.30	1973.50	2067.30	2209.00	1769.00
Indicator value	**1.8%**	**1.7%**	**1.5%**	**1.5%**	**1.4%**	**1.4%**	**1.3%**	**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	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	12.68	7.46	25.70	2.96	11.01	7.96	66.32	3.50
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	2183.00	2208.00	2209.00	1181.10	2032.12	2208.00	2209.00	1706.00
Train 2								
Planned unavailable hours	4.46	5.91	9.14	5.11	27.88	5.62	9.50	2.20
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1181.10	2032.12	2208.00	2209.00	1706.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	971.30	131.00	0	2209.00	454.00
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	971.30	131.00	0	2209.00	454.00
Indicator value	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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	0.004110	0.004440	0.004520	0.004500	0.004680	0.004890	0.005150	0.005430	0.001240	0.012600	0.007420	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.1**	**1.3**	**0.7**	**N/A**

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	0.003230	0.004840	0.005450	0.005520	0.006330	0.006400	0.006910	0.006970	0.008180	0.009280	0.010700	0.011100
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.5**	**0.5**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**0.8**	**0.9**	**1.1**	**1.1**

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	0.060	0.056	0.050	0.035	0.068	0.077	0.116	0.091	0.087	0.124	0.094	N/A
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.6**	**0.6**	**0.5**	**0.4**	**0.7**	**0.8**	**1.2**	**0.9**	**0.9**	**1.2**	**0.9**	**N/A**

Reactor Coolant System Leakage	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum leakage	0.054	0.055	0.031	0.022	0.070	0.026	0.027	0.043	0.057	0.017	0.142	0.051
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.5**	**0.6**	**0.3**	**0.2**	**0.7**	**0.3**	**0.3**	**0.4**	**0.6**	**0.2**	**1.4**	**0.5**

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	41.0	18.0	31.0	0	30.0	36.0	45.0	1.0
Total opportunities	45.0	19.0	36.0	0	32.0	37.0	47.0	2.0
Indicator value	**90.2%**	**93.2%**	**92.2%**	**91.3%**	**91.0%**	**92.3%**	**93.1%**	**92.7%**

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	71.0	68.0	92.0	83.0	79.0	93.0	100.0	102.0
Total Key personnel	74.0	73.0	95.0	85.0	84.0	98.0	101.0	103.0
Indicator value	**95.9%**	**93.2%**	**96.8%**	**97.6%**	**94.0%**	**94.9%**	**99.0%**	**99.0%**

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	316	463	313	316	314	470	314	315
Total sirens-tests	316	477	318	318	318	477	318	318
Indicator value	**99.9%**	**99.0%**	**98.5%**	**98.5%**	**98.3%**	**98.7%**	**98.8%**	**98.7%**

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	28.70	1.50	0	4.80	0	0	0	22.20
CCTV compensatory hours	0	0	0	0.1	5.2	21.4	0	0
IDS normalization factor	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Index Value	**0.028**	**0.025**	**0.001**	**0.001**	**0**	**0.001**	**0.001**	**0.001**

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

Millstone 2

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	0	0	1.0	1.0	0	1.0	0
Critical hours	2208.0	2209.0	1112.3	1993.6	2067.3	2209.0	1711.2	2183.0
Indicator value	**1.6**	**1.6**	**1.8**	**0.9**	**1.9**	**1.9**	**2.6**	**1.7**

Licensee Comments: none

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	**2.0**	**2.0**	**2.0**	**1.0**	**1.0**	**1.0**	**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	0	0	0	1.0	1.0	0	0	1.0
Critical hours	2208.0	2209.0	1112.3	1993.6	2067.3	2209.0	1711.2	2183.0
Indicator value	**1.6**	**1.6**	**0.9**	**0.9**	**1.9**	**1.9**	**1.8**	**1.7**

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	1.57	23.64	9.47	3.29	33.37	16.72	2.49	22.88
Unplanned unavailable hours	2.57	31.17	19.19	0	10.68	17.81	0	27.86
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	1783.66	2183.00	2208.00	2209.00	2073.86	2183.00
Train 2								
Planned unavailable hours	13.78	2.95	14.64	20.72	24.09	22.13	13.91	16.50
Unplanned unavailable hours	5.22	1.33	0	0	0	27.66	0	0
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	1592.81	2183.00	2208.00	2209.00	1872.00	2183.00
Indicator value	**1.1%**	**1.2%**	**1.2%**	**1.2%**	**1.1%**	**1.1%**	**1.0%**	**1.1%**

Licensee Comments:

1Q/03: Planned unavailability hour data was revised to correct a data entry error. No threshold was crossed.

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**
Train 1								
Planned unavailable hours	1.93	2.00	0.51	1.67	0.45	15.76	4.40	0.60
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	2208.00	2209.00	1194.56	2032.12	2208.00	2205.00	1767.00	2183.00
Train 2								
Planned unavailable hours	7.58	5.82	23.46	12.32	8.61	6.02	1.00	4.20
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	648.28	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1194.56	2032.12	2208.00	2209.00	1767.00	2183.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	0.20	4.20	12.50	0	1.00	0	0	25.50
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	1112.30	1973.50	2067.30	2209.00	1769.00	2183.00
Train 2								
Planned unavailable hours	10.10	2.20	0	0	0	0	9.00	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	1112.30	1973.50	2067.30	2209.00	1769.00	2183.00
Train 3								
Planned unavailable hours	3.00	9.70	21.00	0	0	0	13.75	2.50
Unplanned unavailable hours	21.00	0	1.00	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	1112.30	1973.50	2067.30	2209.00	1769.00	2183.00
Indicator value	**1.7%**	**1.5%**	**1.5%**	**1.4%**	**1.4%**	**1.3%**	**1.3%**	**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	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	7.46	25.70	2.96	11.01	7.96	66.32	3.50	5.10
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	1181.10	2032.12	2208.00	2209.00	1706.00	2183.00
Train 2								
Planned unavailable hours	5.91	9.14	5.11	27.88	5.62	9.50	2.20	6.80
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1181.10	2032.12	2208.00	2209.00	1706.00	2183.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	971.30	131.00	0	2209.00	454.00	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	971.30	131.00	0	2209.00	454.00	0
Indicator value	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

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	0.004500	0.004680	0.004890	0.005150	0.005430	0.001240	0.012600	0.007420	N/A	0.003230	0.004840	0.005450
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.1**	**1.3**	**0.7**	**N/A**	**0.3**	**0.5**	**0.5**

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	0.005520	0.006330	0.006400	0.006910	0.006970	0.008180	0.009280	0.010700	0.011100	0.013800	0.014800	0.019100
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**0.8**	**0.9**	**1.1**	**1.1**	**1.4**	**1.5**	**1.9**

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	0.035	0.068	0.077	0.116	0.091	0.087	0.124	0.094	N/A	0.054	0.055	0.031
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.4**	**0.7**	**0.8**	**1.2**	**0.9**	**0.9**	**1.2**	**0.9**	**N/A**	**0.5**	**0.6**	**0.3**

Reactor Coolant System Leakage	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum leakage	0.022	0.070	0.026	0.027	0.043	0.057	0.017	0.142	0.051	0.055	0.058	0.037
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.2**	**0.7**	**0.3**	**0.3**	**0.4**	**0.6**	**0.2**	**1.4**	**0.5**	**0.6**	**0.6**	**0.4**

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	18.0	31.0	0	30.0	36.0	45.0	1.0	66.0
Total opportunities	19.0	36.0	0	32.0	37.0	47.0	2.0	70.0
Indicator value	**93.2%**	**92.2%**	**91.3%**	**91.0%**	**92.3%**	**93.1%**	**92.7%**	**93.4%**

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	68.0	92.0	83.0	79.0	93.0	100.0	102.0	123.0
Total Key personnel	73.0	95.0	85.0	84.0	98.0	101.0	103.0	128.0
Indicator value	**93.2%**	**96.8%**	**97.6%**	**94.0%**	**94.9%**	**99.0%**	**99.0%**	**96.1%**

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	463	313	316	314	470	314	315	309
Total sirens-tests	477	318	318	318	477	318	318	318
Indicator value	**99.0%**	**98.5%**	**98.5%**	**98.3%**	**98.7%**	**98.8%**	**98.7%**	**98.4%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**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	1.50	0	4.80	0	0	0	22.20	0
CCTV compensatory hours	0	0	0.1	5.2	21.4	0	0	0
IDS normalization factor	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Index Value	**0.025**	**0.001**	**0.001**	**0**	**0.001**	**0.001**	**0.001**	**0.001**

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

Millstone 2

3Q/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	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned scrams	0	0	1.0	1.0	0	1.0	0	0
Critical hours	2209.0	1112.3	1993.6	2067.3	2209.0	1711.2	2183.0	2208.0
Indicator value	**1.6**	**1.8**	**0.9**	**1.9**	**1.9**	**2.6**	**1.7**	**0.8**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	**2.0**	**2.0**	**1.0**	**1.0**	**1.0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned power changes	0	0	1.0	1.0	0	0	1.0	0
Critical hours	2209.0	1112.3	1993.6	2067.3	2209.0	1711.2	2183.0	2208.0
Indicator value	**1.6**	**0.9**	**0.9**	**1.9**	**1.9**	**1.8**	**1.7**	**0.8**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	23.64	9.47	3.29	33.37	16.72	2.49	22.88	9.60
Unplanned unavailable hours	31.17	19.19	0	10.68	17.81	0	27.86	0
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	1783.66	2183.00	2208.00	2209.00	2073.86	2183.00	2208.00
Train 2								
Planned unavailable hours	2.95	14.64	20.72	24.09	22.13	13.91	16.50	21.92
Unplanned unavailable hours	1.33	0	0	0	27.66	0	0	0
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	1592.81	2183.00	2208.00	2209.00	1872.00	2183.00	2208.00
Indicator value	**1.2%**	**1.2%**	**1.2%**	**1.1%**	**1.1%**	**1.0%**	**1.1%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	2.00	0.51	1.67	0.45	15.76	4.40	0.60	2.00
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	2209.00	1194.56	2032.12	2208.00	2205.00	1767.00	2183.00	2208.00
Train 2								
Planned unavailable hours	5.82	23.46	12.32	8.61	6.02	1.00	4.20	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	1194.56	2032.12	2208.00	2209.00	1767.00	2183.00	2208.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	4.20	12.50	0	1.00	0	0	25.50	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1112.30	1973.50	2067.30	2209.00	1769.00	2183.00	2208.00
Train 2								
Planned unavailable hours	2.20	0	0	0	0	9.00	9.50	1.00
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	2209.00	1112.30	1973.50	2067.30	2209.00	1769.00	2183.00	2208.00
Train 3								
Planned unavailable hours	9.70	21.00	0	0	0	13.75	2.50	19.00
Unplanned unavailable hours	0	1.00	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	1112.30	1973.50	2067.30	2209.00	1769.00	2183.00	2208.00
Indicator value	**1.5%**	**1.5%**	**1.4%**	**1.4%**	**1.3%**	**1.3%**	**1.3%**	**0.3%**

Licensee Comments:

3Q/03: Revised data; the Hours Train Required was inadvertently entered into the Fault Exposure field of the

PIWeb.

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	25.70	2.96	11.01	7.96	66.32	3.50	5.10	32.80
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	2209.00	1181.10	2032.12	2208.00	2209.00	1706.00	2183.00	2208.00
Train 2								
Planned unavailable hours	9.14	5.11	27.88	5.62	9.50	2.20	6.80	47.50
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	2209.00	1181.10	2032.12	2208.00	2209.00	1706.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	0	971.30	131.00	0	2209.00	454.00	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	971.30	131.00	0	2209.00	454.00	0	0
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**
Safety System Functional Failures	1	0	0	0	0	0	1	0
Indicator value	**1**	**1**	**1**	**1**	**0**	**0**	**1**	**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	0.005150	0.005430	0.001240	0.012600	0.007420	N/A	0.003230	0.004840	0.005450	0.005520	0.006330	0.006400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.5**	**0.1**	**1.3**	**0.7**	**N/A**	**0.3**	**0.5**	**0.5**	**0.6**	**0.6**	**0.6**

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	0.006910	0.006970	0.008180	0.009280	0.010700	0.011100	0.013800	0.014800	0.019100	0.001540	0.001770	0.002530
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.7**	**0.7**	**0.8**	**0.9**	**1.1**	**1.1**	**1.4**	**1.5**	**1.9**	**0.2**	**0.2**	**0.3**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum leakage	0.116	0.091	0.087	0.124	0.094	N/A	0.054	0.055	0.031	0.022	0.070	0.026
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.2**	**0.9**	**0.9**	**1.2**	**0.9**	**N/A**	**0.5**	**0.6**	**0.3**	**0.2**	**0.7**	**0.3**

Reactor Coolant System Leakage	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum leakage	0.027	0.043	0.057	0.017	0.142	0.051	0.055	0.058	0.037	0.061	0.064	0.049
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.3**	**0.4**	**0.6**	**0.2**	**1.4**	**0.5**	**0.6**	**0.6**	**0.4**	**0.6**	**0.6**	**0.5**

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	31.0	0	30.0	36.0	45.0	1.0	66.0	38.0
Total opportunities	36.0	0	32.0	37.0	47.0	2.0	70.0	44.0
Indicator value	**92.2%**	**91.3%**	**91.0%**	**92.3%**	**93.1%**	**92.7%**	**93.4%**	**92.2%**

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	92.0	83.0	79.0	93.0	100.0	101.0	122.0	127.0
Total Key personnel	95.0	85.0	84.0	98.0	101.0	102.0	128.0	133.0
Indicator value	**96.8%**	**97.6%**	**94.0%**	**94.9%**	**99.0%**	**99.0%**	**95.3%**	**95.5%**

Licensee Comments:

2Q/03: Revised data to correct a data collection error in counting the number of Key ERO personnel participating in E Plan Drills, Exercises or Events. The revision did not result in the indicator crossing the GREEN/WHITE threshold.

1Q/03: Revised data to correct a data collection error in counting the number of Key ERO personnel participating in E Plan Drills, Exercises or Events, and the total number of Key ERO personnel at the end of 8 quarters. The revisions did not result in the indicator crossing the GREEN/WHITE threshold.

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	313	314	312	468	314	314	308	453
Total sirens-tests	318	318	318	477	318	318	318	477
Indicator value	**98.5%**	**98.4%**	**98.0%**	**98.3%**	**98.4%**	**98.4%**	**98.1%**	**97.1%**

Licensee Comments:

2Q/03: As the result of an NRC inspection, revised data to reflect a change in the methodology in counting siren failures. Any single siren test failure conducted on the same day now results in all tests on that siren being counted as failures. The revisions did not result in the indicator crossing the GREEN/WHITE threshold.

1Q/03: As the result of an NRC inspection, revised data to reflect a change in the methodology in counting siren failures. Any single siren test failure conducted on the same day now results in all tests on that siren being counted as failures. Also revised the data to reflect the correct monthly count; this did not change the quarterly totals The revisions did not result in the indicator crossing the GREEN/WHITE threshold.

3Q/02: As the result of an NRC inspection, revised data to reflect a change in the methodology in counting siren failures. Any single siren test failure conducted on the same day now results in all tests on that siren being counted as failures. Also revised the data to reflect the correct monthly count; this did not change the quarterly totals The revisions did not result in the indicator crossing the GREEN/WHITE threshold.

2Q/02: As the result of an NRC inspection, revised data to reflect a change in the methodology in counting siren failures. Any single siren test failure conducted on the same day now results in all tests on that siren being counted as failures. Also revised the data to reflect the correct monthly count; this did not change the quarterly totals The revisions did not result in the indicator crossing the GREEN/WHITE threshold.

1Q/02: As the result of an NRC inspection, revised data to reflect a change in the methodology in counting siren failures. Any single siren test failure conducted on the same day now results in all tests on that siren being counted as failures. Also revised the data to reflect the correct monthly count; this did not change the quarterly totals The revisions did not result in the indicator crossing the GREEN/WHITE threshold.

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

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
IDS compensatory hours	0	4.80	0	0	0	22.20	0	0
CCTV compensatory hours	0	0.1	5.2	21.4	0	0	0	0
IDS normalization factor	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Index Value	**0.001**	**0.001**	**0**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**

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

Millstone 2

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	0	1.0	1.0	0	1.0	0	0	2.0
Critical hours	1112.3	1993.6	2067.3	2209.0	1711.2	2183.0	2208.0	1075.0
Indicator value	**1.8**	**0.9**	**1.9**	**1.9**	**2.6**	**1.7**	**0.8**	**2.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

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	1.0	0	0	1.0	0	0
Critical hours	1112.3	1993.6	2067.3	2209.0	1711.2	2183.0	2208.0	1075.0
Indicator value	**0.9**	**0.9**	**1.9**	**1.9**	**1.8**	**1.7**	**0.8**	**1.0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	9.47	3.29	33.37	16.72	2.49	22.88	9.60	3.63
Unplanned unavailable hours	19.19	0	10.68	17.81	0	27.86	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1783.66	2183.00	2208.00	2209.00	2073.86	2183.00	2208.00	1498.80
Train 2								
Planned unavailable hours	14.64	20.72	24.09	22.13	13.91	16.50	21.92	17.51
Unplanned unavailable hours	0	0	0	27.66	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1592.81	2183.00	2208.00	2209.00	1872.00	2183.00	2208.00	1918.75
Indicator value	**1.2%**	**1.2%**	**1.1%**	**1.1%**	**1.0%**	**1.1%**	**1.0%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**	**4Q/03**
Train 1								
Planned unavailable hours	0.51	1.67	0.45	15.76	4.40	0.60	2.00	8.20
Unplanned unavailable hours	0	0	0	0	0	0	0	2.00
Fault exposure hours	0	0	0	0	0	0	0	2.00
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1194.56	2032.12	2208.00	2205.00	1767.00	2183.00	2208.00	1198.00
Train 2								
Planned unavailable hours	23.46	12.32	8.61	6.02	1.00	4.20	7.60	0.90
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	1194.56	2032.12	2208.00	2209.00	1767.00	2183.00	2208.00	1198.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.2%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	12.50	0	1.00	0	0	25.50	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1112.30	1973.50	2067.30	2209.00	1769.00	2183.00	2208.00	1183.30
Train 2								
Planned unavailable hours	0	0	0	0	9.00	9.50	1.00	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1112.30	1973.50	2067.30	2209.00	1769.00	2183.00	2208.00	1183.30
Train 3								
Planned unavailable hours	21.00	0	0	0	13.75	2.50	19.00	0
Unplanned unavailable hours	1.00	0	0	0	0	0	0	33.75
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1112.30	1973.50	2067.30	2209.00	1769.00	2183.00	2208.00	1183.30
Indicator value	**1.5%**	**1.4%**	**1.4%**	**1.3%**	**1.3%**	**1.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

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	2.96	11.01	7.96	66.32	3.50	5.10	32.80	3.90
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	1181.10	2032.12	2208.00	2209.00	1706.00	2183.00	2208.00	1169.30
Train 2								
Planned unavailable hours	5.11	27.88	5.62	9.50	2.20	6.80	47.50	3.90
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	1181.10	2032.12	2208.00	2209.00	1706.00	2183.00	2208.00	1169.30
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0.30
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	971.30	131.00	0	2209.00	454.00	0	0	1048.40
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	971.30	131.00	0	2209.00	454.00	0	0	1048.40
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

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	0.012600	0.007420	N/A	0.003230	0.004840	0.005450	0.005520	0.006330	0.006400	0.006910	0.006970	0.008180
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**1.3**	**0.7**	**N/A**	**0.3**	**0.5**	**0.5**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**0.8**

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	0.009280	0.010700	0.011100	0.013800	0.014800	0.019100	0.001540	0.001770	0.002530	0.034700	N/A	0.004580
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.9**	**1.1**	**1.1**	**1.4**	**1.5**	**1.9**	**0.2**	**0.2**	**0.3**	**3.5**	**N/A**	**0.5**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum leakage	0.124	0.094	N/A	0.054	0.055	0.031	0.022	0.070	0.026	0.027	0.043	0.057
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.2**	**0.9**	**N/A**	**0.5**	**0.6**	**0.3**	**0.2**	**0.7**	**0.3**	**0.3**	**0.4**	**0.6**

Reactor Coolant System Leakage	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum leakage	0.017	0.142	0.051	0.055	0.058	0.037	0.061	0.064	0.049	0.039	0	0.182
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.2**	**1.4**	**0.5**	**0.6**	**0.6**	**0.4**	**0.6**	**0.6**	**0.5**	**0.4**	**0**	**1.8**

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	0	30.0	36.0	45.0	1.0	66.0	38.0	27.0
Total opportunities	0	32.0	37.0	47.0	2.0	70.0	44.0	29.0
Indicator value	**91.3%**	**91.0%**	**92.3%**	**93.1%**	**92.7%**	**93.4%**	**92.2%**	**93.1%**

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	83.0	79.0	93.0	100.0	101.0	122.0	127.0	126.0
Total Key personnel	85.0	84.0	98.0	101.0	102.0	128.0	133.0	133.0
Indicator value	**97.6%**	**94.0%**	**94.9%**	**99.0%**	**99.0%**	**95.3%**	**95.5%**	**94.7%**

Licensee Comments: none

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	314	312	468	314	314	308	453	314
Total sirens-tests	318	318	477	318	318	318	477	318
Indicator value	**98.4%**	**98.0%**	**98.3%**	**98.4%**	**98.4%**	**98.1%**	**97.1%**	**97.1%**

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

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
IDS compensatory hours	4.80	0	0	0	22.20	0	0	0
CCTV compensatory hours	0.1	5.2	21.4	0	0	0	0	1.1
IDS normalization factor	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Index Value	**0.001**	**0**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**

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

Millstone 2

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	1.0	1.0	0	1.0	0	0	2.0	2.0
Critical hours	1993.6	2067.3	2209.0	1711.2	2183.0	2208.0	1075.0	2108.5
Indicator value	**0.9**	**1.9**	**1.9**	**2.6**	**1.7**	**0.8**	**2.9**	**3.7**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

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	1.0	0	0	1.0	0	0	0
Critical hours	1993.6	2067.3	2209.0	1711.2	2183.0	2208.0	1075.0	2108.5
Indicator value	**0.9**	**1.9**	**1.9**	**1.8**	**1.7**	**0.8**	**1.0**	**0.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	3.29	33.37	16.72	2.49	22.88	9.60	3.63	13.86
Unplanned unavailable hours	0	10.68	17.81	0	27.86	0	0	1.03
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2073.86	2183.00	2208.00	1498.80	2184.00
Train 2								
Planned unavailable hours	20.72	24.09	22.13	13.91	16.50	21.92	17.51	17.17
Unplanned unavailable hours	0	0	27.66	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	1872.00	2183.00	2208.00	1918.75	2184.00
Indicator value	**1.2%**	**1.1%**	**1.1%**	**1.0%**	**1.1%**	**1.0%**	**1.0%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	1.67	0.45	15.76	4.40	0.60	2.00	8.20	1.50
Unplanned unavailable hours	0	0	0	0	0	0	2.00	0
Fault exposure hours	0	0	0	0	0	0	2.00	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2032.12	2208.00	2205.00	1767.00	2183.00	2208.00	1198.00	2184.00
Train 2								
Planned unavailable hours	12.32	8.61	6.02	1.00	4.20	7.60	0.90	0.50
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	2032.12	2208.00	2209.00	1767.00	2183.00	2208.00	1198.00	2184.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.2%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0	1.00	0	0	25.50	0	0	12.50
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	1973.50	2067.30	2209.00	1769.00	2183.00	2208.00	1183.30	2184.00
Train 2								
Planned unavailable hours	0	0	0	9.00	9.50	1.00	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1973.50	2067.30	2209.00	1769.00	2183.00	2208.00	1183.30	2184.00
Train 3								
Planned unavailable hours	0	0	0	13.75	2.50	19.00	0	0
Unplanned unavailable hours	0	0	0	0	0	0	33.75	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1973.50	2067.30	2209.00	1769.00	2183.00	2208.00	1183.30	2184.00
Indicator value	**1.4%**	**1.4%**	**1.3%**	**1.3%**	**1.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

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	11.01	7.96	66.32	3.50	5.10	32.80	3.90	15.00
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	2032.12	2208.00	2209.00	1706.00	2183.00	2208.00	1169.30	2184.00
Train 2								
Planned unavailable hours	27.88	5.62	9.50	2.20	6.80	47.50	3.90	35.97
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2032.12	2208.00	2209.00	1706.00	2183.00	2208.00	1169.30	2184.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0.30	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	131.00	0	2209.00	454.00	0	0	1048.40	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	131.00	0	2209.00	454.00	0	0	1048.40	0
Indicator value	**0.4%**	**0.4%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

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	0.003230	0.004840	0.005450	0.005520	0.006330	0.006400	0.006910	0.006970	0.008180	0.009280	0.010700	0.011100
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.5**	**0.5**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**0.8**	**0.9**	**1.1**	**1.1**

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	0.013800	0.014800	0.019100	0.001540	0.001770	0.002530	0.034700	N/A	0.004580	0.005310	0.005620	0.005760
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**1.4**	**1.5**	**1.9**	**0.2**	**0.2**	**0.3**	**3.5**	**N/A**	**0.5**	**0.5**	**0.6**	**0.6**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/02**	**5/02**	**6/02**	**7/02**	**8/02**	**9/02**	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**
Maximum leakage	0.054	0.055	0.031	0.022	0.070	0.026	0.027	0.043	0.057	0.017	0.142	0.051
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.5**	**0.6**	**0.3**	**0.2**	**0.7**	**0.3**	**0.3**	**0.4**	**0.6**	**0.2**	**1.4**	**0.5**

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	0.055	0.058	0.037	0.061	0.064	0.049	0.039	0	0.182	0.082	0.165	0.089
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.6**	**0.6**	**0.4**	**0.6**	**0.6**	**0.5**	**0.4**	**0**	**1.8**	**0.8**	**1.7**	**0.9**

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	30.0	36.0	45.0	1.0	66.0	38.0	27.0	43.0
Total opportunities	32.0	37.0	47.0	2.0	70.0	44.0	29.0	45.0
Indicator value	**91.0%**	**92.3%**	**93.1%**	**92.7%**	**93.4%**	**92.2%**	**93.1%**	**93.5%**

Licensee Comments: none

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	79.0	93.0	100.0	101.0	122.0	127.0	126.0	130.0
Total Key personnel	84.0	98.0	101.0	102.0	128.0	133.0	133.0	133.0
Indicator value	**94.0%**	**94.9%**	**99.0%**	**99.0%**	**95.3%**	**95.5%**	**94.7%**	**97.7%**

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	312	468	314	314	308	453	314	314
Total sirens-tests	318	477	318	318	318	477	318	318
Indicator value	**98.0%**	**98.3%**	**98.4%**	**98.4%**	**98.1%**	**97.1%**	**97.1%**	**97.1%**

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	0	0	0	22.20	0	0	0	0
CCTV compensatory hours	5.2	21.4	0	0	0	0	1.1	0
IDS normalization factor	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
CCTV normalization factor	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Index Value	**0**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0**

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

Millstone 2

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	1.0	0	1.0	0	0	2.0	2.0	0
Critical hours	2067.3	2209.0	1711.2	2183.0	2208.0	1075.0	2108.5	2183.0
Indicator value	**1.9**	**1.9**	**2.6**	**1.7**	**0.8**	**2.9**	**3.7**	**3.7**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned power changes	1.0	0	0	1.0	0	0	0	0
Critical hours	2067.3	2209.0	1711.2	2183.0	2208.0	1075.0	2108.5	2183.0
Indicator value	**1.9**	**1.9**	**1.8**	**1.7**	**0.8**	**1.0**	**0.9**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	33.37	16.72	2.49	22.88	9.60	3.63	13.86	7.20
Unplanned unavailable hours	10.68	17.81	0	27.86	0	0	1.03	7.18
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	2073.86	2183.00	2208.00	1498.80	2184.00	2183.00
Train 2								
Planned unavailable hours	24.09	22.13	13.91	16.50	21.92	17.51	17.17	6.70
Unplanned unavailable hours	0	27.66	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	1872.00	2183.00	2208.00	1918.75	2184.00	2183.00
Indicator value	**1.1%**	**1.1%**	**1.0%**	**1.1%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	0.45	15.76	4.40	0.60	2.00	8.20	1.50	1.60
Unplanned unavailable hours	0	0	0	0	0	2.00	0	0
Fault exposure hours	0	0	0	0	0	2.00	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2205.00	1767.00	2183.00	2208.00	1198.00	2184.00	2183.00
Train 2								
Planned unavailable hours	8.61	6.02	1.00	4.20	7.60	0.90	0.50	1.10
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	1767.00	2183.00	2208.00	1198.00	2184.00	2183.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.2%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	1.00	0	0	25.50	0	0	12.50	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	2067.30	2209.00	1769.00	2183.00	2208.00	1183.30	2184.00	2183.00
Train 2								
Planned unavailable hours	0	0	9.00	9.50	1.00	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2067.30	2209.00	1769.00	2183.00	2208.00	1183.30	2184.00	2183.00
Train 3								
Planned unavailable hours	0	0	13.75	2.50	19.00	0	0	0
Unplanned unavailable hours	0	0	0	0	0	33.75	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2067.30	2209.00	1769.00	2183.00	2208.00	1183.30	2184.00	2183.00
Indicator value	**1.4%**	**1.3%**	**1.3%**	**1.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

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	7.96	66.32	3.50	5.10	32.80	3.90	15.00	11.52
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1706.00	2183.00	2208.00	1169.30	2184.00	2183.00
Train 2								
Planned unavailable hours	5.62	9.50	2.20	6.80	47.50	3.90	35.97	9.16
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	1706.00	2183.00	2208.00	1169.30	2184.00	2183.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0.30	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	2209.00	454.00	0	0	1048.40	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	2209.00	454.00	0	0	1048.40	0	0
Indicator value	**0.4%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

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	0.005520	0.006330	0.006400	0.006910	0.006970	0.008180	0.009280	0.010700	0.011100	0.013800	0.014800	0.019100
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**0.8**	**0.9**	**1.1**	**1.1**	**1.4**	**1.5**	**1.9**

Reactor Coolant System Activity	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum activity	0.001540	0.001770	0.002530	0.034700	N/A	0.004580	0.005310	0.005620	0.005760	0.006140	0.006770	0.006980
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.3**	**3.5**	**N/A**	**0.5**	**0.5**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum leakage	0.022	0.070	0.026	0.027	0.043	0.057	0.017	0.142	0.051	0.055	0.058	0.037
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.2**	**0.7**	**0.3**	**0.3**	**0.4**	**0.6**	**0.2**	**1.4**	**0.5**	**0.6**	**0.6**	**0.4**

Reactor Coolant System Leakage	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum leakage	0.061	0.064	0.049	0.039	0	0.182	0.082	0.165	0.089	0.148	0.111	0.319
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.6**	**0.6**	**0.5**	**0.4**	**0**	**1.8**	**0.8**	**1.7**	**0.9**	**1.5**	**1.1**	**3.2**

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	36.0	45.0	1.0	66.0	38.0	27.0	43.0	11.0
Total opportunities	37.0	47.0	2.0	70.0	44.0	29.0	45.0	16.0
Indicator value	**92.3%**	**93.1%**	**92.7%**	**93.4%**	**92.2%**	**93.1%**	**93.5%**	**92.1%**

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	93.0	100.0	101.0	122.0	127.0	126.0	130.0	131.0
Total Key personnel	98.0	101.0	102.0	128.0	133.0	133.0	133.0	141.0
Indicator value	**94.9%**	**99.0%**	**99.0%**	**95.3%**	**95.5%**	**94.7%**	**97.7%**	**92.9%**

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	468	314	314	308	453	314	314	312
Total sirens-tests	477	318	318	318	477	318	318	318
Indicator value	**98.3%**	**98.4%**	**98.4%**	**98.1%**	**97.1%**	**97.1%**	**97.1%**	**97.3%**

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.

Last Modified: September 8, 2004

Millstone 2

3Q/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	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned scrams	0	1.0	0	0	2.0	2.0	0	0
Critical hours	2209.0	1711.2	2183.0	2208.0	1075.0	2108.5	2183.0	2208.0
Indicator value	**1.9**	**2.6**	**1.7**	**0.8**	**2.9**	**3.7**	**3.7**	**3.7**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

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	0	0	1.0	0	0	0	0	0
Critical hours	2209.0	1711.2	2183.0	2208.0	1075.0	2108.5	2183.0	2208.0
Indicator value	**1.9**	**1.8**	**1.7**	**0.8**	**1.0**	**0.9**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	16.72	2.49	22.88	9.60	3.63	13.86	7.20	6.26
Unplanned unavailable hours	17.81	0	27.86	0	0	1.03	7.18	0
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	2073.86	2183.00	2208.00	1498.80	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	22.13	13.91	16.50	21.92	17.51	17.17	6.70	7.29
Unplanned unavailable hours	27.66	0	0	0	0	0	0	11.32
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	1872.00	2183.00	2208.00	1918.75	2184.00	2183.00	2208.00
Indicator value	**1.1%**	**1.0%**	**1.1%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	15.76	4.40	0.60	2.10	8.20	1.50	1.60	0.27
Unplanned unavailable hours	0	0	0	0	2.00	0	0	0
Fault exposure hours	0	0	0	0	2.00	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2205.00	1767.00	2183.00	2208.00	1198.00	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	6.02	1.00	4.20	3.80	0.90	0.50	1.10	0.49
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	1767.00	2183.00	2208.00	1198.00	2184.00	2183.00	2208.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.2%**	**0.3%**	**0.3%**	**0.3%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	0	0	25.50	0	0	12.50	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1769.00	2183.00	2208.00	1183.30	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	9.00	9.50	1.00	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1769.00	2183.00	2208.00	1183.30	2184.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	13.75	2.50	19.00	0	0	0	0
Unplanned unavailable hours	0	0	0	0	33.75	0	0	0
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	1769.00	2183.00	2208.00	1183.30	2184.00	2183.00	2208.00
Indicator value	**1.3%**	**1.3%**	**1.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

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	66.32	3.50	5.10	32.80	3.90	15.00	11.52	23.95
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	2209.00	1706.00	2183.00	2208.00	1169.30	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	9.50	2.20	6.80	47.50	3.90	35.97	9.16	10.70
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	1706.00	2183.00	2208.00	1169.30	2184.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0.30	0	0	0
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	454.00	0	0	1048.40	0	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	454.00	0	0	1048.40	0	0	0
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Safety System Functional Failures	0	0	1	0	1	0	0	0
Indicator value	**0**	**0**	**1**	**1**	**2**	**2**	**1**	**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	0.006910	0.006970	0.008180	0.009280	0.010700	0.011100	0.013800	0.014800	0.019100	0.001540	0.001770	0.002530
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.7**	**0.7**	**0.8**	**0.9**	**1.1**	**1.1**	**1.4**	**1.5**	**1.9**	**0.2**	**0.2**	**0.3**

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	0.034700	N/A	0.004580	0.005310	0.005620	0.005760	0.006140	0.006770	0.006980	0.007270	0.007640	0.008190
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**3.5**	**N/A**	**0.5**	**0.5**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**0.7**	**0.8**	**0.8**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum leakage	0.027	0.043	0.057	0.017	0.142	0.051	0.055	0.058	0.037	0.061	0.064	0.049
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.3**	**0.4**	**0.6**	**0.2**	**1.4**	**0.5**	**0.6**	**0.6**	**0.4**	**0.6**	**0.6**	**0.5**

Reactor Coolant System Leakage	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	0.039	0	0.182	0.082	0.165	0.089	0.148	0.111	0.319	0.169	0.164	0.195
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.4**	**0**	**1.8**	**0.8**	**1.7**	**0.9**	**1.5**	**1.1**	**3.2**	**1.7**	**1.6**	**2.0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful opportunities	45.0	1.0	66.0	38.0	27.0	43.0	11.0	58.0
Total opportunities	47.0	2.0	70.0	44.0	29.0	45.0	16.0	63.0
Indicator value	**93.1%**	**92.7%**	**93.4%**	**92.2%**	**93.1%**	**93.5%**	**92.1%**	**91.5%**

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	100.0	101.0	122.0	127.0	126.0	130.0	131.0	138.0
Total Key personnel	101.0	102.0	128.0	133.0	133.0	133.0	141.0	144.0
Indicator value	**99.0%**	**99.0%**	**95.3%**	**95.5%**	**94.7%**	**97.7%**	**92.9%**	**95.8%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful siren-tests	314	314	308	453	314	314	312	462
Total sirens-tests	318	318	318	477	318	318	318	477
Indicator value	**98.4%**	**98.4%**	**98.1%**	**97.1%**	**97.1%**	**97.1%**	**97.3%**	**98.0%**

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:

3Q/04: An event on Unit 2 regarding a potential unintended exposure is currently being evaluated. The amount of exposure is not known at this time.

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

Millstone 2

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	1.0	0	0	2.0	2.0	0	0	0
Critical hours	1711.2	2183.0	2208.0	1075.0	2108.5	2183.0	2208.0	2209.0
Indicator value	**2.6**	**1.7**	**0.8**	**2.9**	**3.7**	**3.7**	**3.7**	**1.6**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

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	0	1.0	0	0	0	0	0	1.0
Critical hours	1711.2	2183.0	2208.0	1075.0	2108.5	2183.0	2208.0	2209.0
Indicator value	**1.8**	**1.7**	**0.8**	**1.0**	**0.9**	**0**	**0**	**0.8**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	5.30	31.00	11.59	5.71	12.63	8.20	6.26	18.11
Unplanned unavailable hours	0	27.86	0	0	1.03	7.18	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2073.86	2183.00	2208.00	1498.80	2184.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	16.90	20.10	25.08	17.62	17.17	7.57	7.29	30.84
Unplanned unavailable hours	0	0	0	0	0	0	11.32	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1872.00	2183.00	2208.00	1918.75	2184.00	2183.00	2208.00	2209.00
Indicator value	**1.1%**	**1.2%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**

Licensee Comments:

4Q/04: Unavailability hours were added to account for the inadvertent omission of cascaded support system unavailability (cooling water and electrical equipment testing). The systems affected are Unit 2 and 3 Emergency Diesel Generator (4th quarter 2001 thru 3rd quarter 2004), and Unit 3 High Pressure Safety Injection (3rd quarter 2001 thru 3rd quarter 2004). Unavailability hours were also added to correct data collection errors for Unit 2 High Pressure Safety Injection (July and October 2003). These revisions did not result in any of the affected indicators crossing a threshold.

1Q/03: Planned unavailability hour data was revised to correct a data entry error. No threshold was crossed.

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	4.40	0.60	2.73	32.37	1.50	1.60	0.27	4.83
Unplanned unavailable hours	0	0	0	2.00	0	0	0	0
Fault exposure hours	0	0	0	2.00	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1767.00	2183.00	2208.00	1198.00	2184.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	1.00	4.20	8.73	0.90	0.50	1.10	0.49	5.39
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	1767.00	2183.00	2208.00	1198.00	2184.00	2183.00	2208.00	2209.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments:

4Q/04: Unavailability hours were added to account for the inadvertent omission of cascaded support system unavailability (cooling water and electrical equipment testing). The systems affected are Unit 2 and 3 Emergency Diesel Generator (4th quarter 2001 thru 3rd quarter 2004), and Unit 3 High Pressure Safety Injection (3rd quarter 2001 thru 3rd quarter 2004). Unavailability hours were also added to correct data collection errors for Unit 2 High Pressure Safety Injection (July and October 2003). These revisions did not result in any of the affected indicators crossing a threshold.

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	0	25.50	0	0	12.50	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1769.00	2183.00	2208.00	1183.30	2184.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	9.00	9.50	1.00	0	0	0	0	4.68
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	1769.00	2183.00	2208.00	1183.30	2184.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	13.75	2.50	19.00	0	0	0	0	12.25
Unplanned unavailable hours	0	0	0	33.75	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1769.00	2183.00	2208.00	1183.30	2184.00	2183.00	2208.00	2209.00
Indicator value	**1.3%**	**1.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

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	3.50	5.10	32.80	3.90	15.00	11.52	23.95	11.44
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	1706.00	2183.00	2208.00	1169.30	2184.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	2.20	6.80	47.50	3.90	35.97	9.16	10.70	14.37
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	1706.00	2183.00	2208.00	1169.30	2184.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0.30	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	454.00	0	0	1048.40	0	0	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	454.00	0	0	1048.40	0	0	0	0
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**
Maximum activity	0.009280	0.010700	0.011100	0.013800	0.014800	0.019100	0.001540	0.001770	0.002530	0.034700	N/A	0.004580
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.9**	**1.1**	**1.1**	**1.4**	**1.5**	**1.9**	**0.2**	**0.2**	**0.3**	**3.5**	**N/A**	**0.5**

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	0.005310	0.005620	0.005760	0.006140	0.006770	0.006980	0.007270	0.007640	0.008190	0.010200	0.008570	0.008750
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**0.7**	**0.8**	**0.8**	**1.0**	**0.9**	**0.9**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**
Maximum leakage	0.017	0.142	0.051	0.055	0.058	0.037	0.061	0.064	0.049	0.039	0	0.182
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.2**	**1.4**	**0.5**	**0.6**	**0.6**	**0.4**	**0.6**	**0.6**	**0.5**	**0.4**	**0**	**1.8**
Reactor Coolant System Leakage	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**
Maximum leakage	0.082	0.165	0.089	0.148	0.111	0.319	0.169	0.164	0.195	0.199	0.204	0.280
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.8**	**1.7**	**0.9**	**1.5**	**1.1**	**3.2**	**1.7**	**1.6**	**2.0**	**2.0**	**2.0**	**2.8**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful opportunities	1.0	66.0	38.0	27.0	43.0	11.0	58.0	85.0
Total opportunities	2.0	70.0	44.0	29.0	45.0	16.0	63.0	93.0
Indicator value	**92.7%**	**93.4%**	**92.2%**	**93.1%**	**93.5%**	**92.1%**	**91.5%**	**90.9%**

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	101.0	122.0	127.0	126.0	130.0	131.0	138.0	141.0
Total Key personnel	102.0	128.0	133.0	133.0	133.0	141.0	144.0	143.0
Indicator value	**99.0%**	**95.3%**	**95.5%**	**94.7%**	**97.7%**	**92.9%**	**95.8%**	**98.6%**

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	314	308	453	314	314	312	462	316
Total sirens-tests	318	318	477	318	318	318	477	318
Indicator value	**98.4%**	**98.1%**	**97.1%**	**97.1%**	**97.1%**	**97.3%**	**98.0%**	**98.1%**

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

Millstone 2

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	2.0	2.0	0	0	0	0
Critical hours	2183.0	2208.0	1075.0	2108.5	2183.0	2208.0	2209.0	2160.0
Indicator value	**1.7**	**0.8**	**2.9**	**3.7**	**3.7**	**3.7**	**1.6**	**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	1.0	1.0	0	0	0	0
Indicator value	**0**	**0**	**1.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**

Licensee Comments: none

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	1.0	0	0	0	0	0	1.0	0
Critical hours	2183.0	2208.0	1075.0	2108.5	2183.0	2208.0	2209.0	2160.0
Indicator value	**1.7**	**0.8**	**1.0**	**0.9**	**0**	**0**	**0.8**	**0.8**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	31.00	11.59	5.71	12.63	8.20	6.26	18.11	5.31
Unplanned unavailable hours	27.86	0	0	1.03	7.18	0	0	0
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	1498.80	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	20.10	25.08	17.62	17.17	7.57	7.29	30.84	5.07
Unplanned unavailable hours	0	0	0	0	0	11.32	0	0
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	1918.75	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**1.2%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	0.60	2.73	32.37	1.50	1.60	0.27	4.83	4.67
Unplanned unavailable hours	0	0	2.00	0	0	0	0	0
Fault exposure hours	0	0	2.00	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1198.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	4.20	8.73	0.90	0.50	1.10	0.49	5.39	2.68
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	1198.00	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	25.50	0	0	12.50	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1183.30	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	9.50	1.00	0	0	0	0	4.68	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1183.30	2184.00	2183.00	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	2.50	19.00	0	0	0	0	12.25	0
Unplanned unavailable hours	0	0	33.75	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	1183.30	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**1.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

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	5.10	32.80	3.90	15.00	11.52	23.95	11.44	10.42
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	1169.30	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	6.80	47.50	3.90	35.97	9.16	10.70	14.37	12.23
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	1169.30	2184.00	2183.00	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0.30	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	1048.40	0	0	0	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	1048.40	0	0	0	0	0
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**
Maximum activity	0.013800	0.014800	0.019100	0.001540	0.001770	0.002530	0.034700	N/A	0.004580	0.005310	0.005620	0.005760
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**1.4**	**1.5**	**1.9**	**0.2**	**0.2**	**0.3**	**3.5**	**N/A**	**0.5**	**0.5**	**0.6**	**0.6**

Reactor Coolant System Activity	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum activity	0.006140	0.006770	0.006980	0.007270	0.007640	0.008190	0.010200	0.008570	0.008750	0.009100	0.009450	0.009580
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.6**	**0.7**	**0.7**	**0.7**	**0.8**	**0.8**	**1.0**	**0.9**	**0.9**	**0.9**	**0.9**	**1.0**

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	0.055	0.058	0.037	0.061	0.064	0.049	0.039	0	0.182	0.082	0.165	0.089
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.6**	**0.6**	**0.4**	**0.6**	**0.6**	**0.5**	**0.4**	**0**	**1.8**	**0.8**	**1.7**	**0.9**
Reactor Coolant System Leakage	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum leakage	0.148	0.111	0.319	0.169	0.164	0.195	0.199	0.204	0.280	0.183	0.279	0.217
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.5**	**1.1**	**3.2**	**1.7**	**1.6**	**2.0**	**2.0**	**2.0**	**2.8**	**1.8**	**2.8**	**2.2**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful opportunities	66.0	38.0	27.0	43.0	11.0	58.0	85.0	30.0
Total opportunities	70.0	44.0	29.0	45.0	16.0	63.0	93.0	30.0
Indicator value	**93.4%**	**92.2%**	**93.1%**	**93.5%**	**92.1%**	**91.5%**	**90.9%**	**91.8%**

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	122.0	127.0	126.0	130.0	131.0	138.0	141.0	136.0
Total Key personnel	128.0	133.0	133.0	133.0	141.0	144.0	143.0	141.0
Indicator value	**95.3%**	**95.5%**	**94.7%**	**97.7%**	**92.9%**	**95.8%**	**98.6%**	**96.5%**

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	308	453	314	314	312	462	316	312
Total sirens-tests	318	477	318	318	318	477	318	318
Indicator value	**98.1%**	**97.1%**	**97.1%**	**97.1%**	**97.3%**	**98.0%**	**98.1%**	**98.0%**

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

Millstone 2

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	2.0	2.0	0	0	0	0	0
Critical hours	2208.0	1075.0	2108.5	2183.0	2208.0	2209.0	2160.0	1255.4
Indicator value	**0.8**	**2.9**	**3.7**	**3.7**	**3.7**	**1.6**	**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	1.0	1.0	0	0	0	0	0
Indicator value	**0**	**1.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	1075.0	2108.5	2183.0	2208.0	2209.0	2160.0	1255.4
Indicator value	**0.8**	**1.0**	**0.9**	**0**	**0**	**0.8**	**0.8**	**0.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	11.59	5.71	12.63	8.20	6.26	18.11	5.31	6.19
Unplanned unavailable hours	0	0	1.03	7.18	0	0	0	0
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	1498.80	2184.00	2183.00	2208.00	2209.00	2160.00	1866.97
Train 2								
Planned unavailable hours	25.08	17.62	17.17	7.57	7.29	30.84	5.07	6.26
Unplanned unavailable hours	0	0	0	0	11.32	0	0	0
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	1918.75	2184.00	2183.00	2208.00	2209.00	2160.00	1631.03
Indicator value	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**1.0%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	2.73	32.37	1.50	1.60	0.27	4.83	4.67	3.50
Unplanned unavailable hours	0	2.00	0	0	0	0	0	0
Fault exposure hours	0	2.00	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1198.00	2184.00	2183.00	2208.00	2209.00	2160.00	1315.96
Train 2								
Planned unavailable hours	8.73	0.90	0.50	1.10	0.49	5.39	2.68	4.43
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	1198.00	2184.00	2183.00	2208.00	2209.00	2160.00	1315.96
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	0	0	12.50	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1183.30	2184.00	2183.00	2208.00	2209.00	2160.00	1303.02
Train 2								
Planned unavailable hours	1.00	0	0	0	0	4.68	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1183.30	2184.00	2183.00	2208.00	2209.00	2160.00	1303.02
Train 3								
Planned unavailable hours	19.00	0	0	0	0	12.25	0	0
Unplanned unavailable hours	0	33.75	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	1183.30	2184.00	2183.00	2208.00	2209.00	2160.00	1303.02
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	32.80	3.90	15.00	11.52	23.95	11.44	10.42	5.48
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	2208.00	1169.30	2184.00	2183.00	2208.00	2209.00	2160.00	1285.55
Train 2								
Planned unavailable hours	47.50	3.90	35.97	9.16	10.70	14.37	12.23	6.71
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	1169.30	2184.00	2183.00	2208.00	2209.00	2160.00	1285.55
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0.30	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	1048.40	0	0	0	0	0	833.75
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	1048.40	0	0	0	0	0	833.75
Indicator value	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**
Maximum activity	0.001540	0.001770	0.002530	0.034700	N/A	0.004580	0.005310	0.005620	0.005760	0.006140	0.006770	0.006980
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.3**	**3.5**	**N/A**	**0.5**	**0.5**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**

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	0.007270	0.007640	0.008190	0.010200	0.008570	0.008750	0.009100	0.009450	0.009580	0.020300	0.004560	0.005440
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.7**	**0.8**	**0.8**	**1.0**	**0.9**	**0.9**	**0.9**	**0.9**	**1.0**	**2.0**	**0.5**	**0.5**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum leakage	0.061	0.064	0.049	0.039	0	0.182	0.082	0.165	0.089	0.148	0.111	0.319
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.6**	**0.6**	**0.5**	**0.4**	**0**	**1.8**	**0.8**	**1.7**	**0.9**	**1.5**	**1.1**	**3.2**

Reactor Coolant System Leakage	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05
Maximum leakage	0.169	0.164	0.195	0.199	0.204	0.280	0.183	0.279	0.217	0.234	0.407	0.322
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.7**	**1.6**	**2.0**	**2.0**	**2.0**	**2.8**	**1.8**	**2.8**	**2.2**	**2.3**	**4.1**	**3.2**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful opportunities	38.0	27.0	43.0	11.0	58.0	85.0	30.0	26.0
Total opportunities	44.0	29.0	45.0	16.0	63.0	93.0	30.0	27.0
Indicator value	**92.2%**	**93.1%**	**93.5%**	**92.1%**	**91.5%**	**90.9%**	**91.8%**	**91.6%**

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	127.0	126.0	130.0	131.0	138.0	141.0	136.0	132.0
Total Key personnel	133.0	133.0	133.0	141.0	144.0	143.0	141.0	137.0
Indicator value	**95.5%**	**94.7%**	**97.7%**	**92.9%**	**95.8%**	**98.6%**	**96.5%**	**96.4%**

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	453	314	314	312	462	316	312	312
Total sirens-tests	477	318	318	318	477	318	318	318
Indicator value	**97.1%**	**97.1%**	**97.1%**	**97.3%**	**98.0%**	**98.1%**	**98.0%**	**98.0%**

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

Millstone 2

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	2.0	2.0	0	0	0	0	0	0
Critical hours	1075.0	2108.5	2183.0	2208.0	2209.0	2160.0	1255.4	2208.0
Indicator value	**2.9**	**3.7**	**3.7**	**3.7**	**1.6**	**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	1.0	1.0	0	0	0	0	0	0
Indicator value	**1.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**

Licensee Comments: none

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	1.0	0	0	0
Critical hours	1075.0	2108.5	2183.0	2208.0	2209.0	2160.0	1255.4	2208.0
Indicator value	**1.0**	**0.9**	**0**	**0**	**0.8**	**0.8**	**0.9**	**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/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	5.71	12.63	8.20	6.26	18.11	5.31	6.19	11.76
Unplanned unavailable hours	0	1.03	7.18	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	1498.80	2184.00	2183.00	2208.00	2209.00	2160.00	1866.97	2208.00
Train 2								
Planned unavailable hours	17.62	17.17	7.57	7.29	30.84	5.07	6.26	18.38
Unplanned unavailable hours	0	0	0	11.32	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1918.75	2184.00	2183.00	2208.00	2209.00	2160.00	1631.03	2208.00
Indicator value	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**1.0%**	**1.0%**	**0.9%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	32.37	1.50	1.60	0.27	4.83	4.67	3.50	35.96
Unplanned unavailable hours	2.00	0	0	0	0	0	0	0
Fault exposure hours	2.00	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1198.00	2184.00	2183.00	2208.00	2209.00	2160.00	1315.96	2208.00
Train 2								
Planned unavailable hours	0.90	0.50	1.10	0.49	5.39	2.68	4.43	3.94
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	1198.00	2184.00	2183.00	2208.00	2209.00	2160.00	1315.96	2208.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	0	12.50	0	0	0	0	0	14.03
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1183.30	2184.00	2183.00	2208.00	2209.00	2160.00	1303.02	2208.00
Train 2								
Planned unavailable hours	0	0	0	0	4.68	0	0	5.33
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	1183.30	2184.00	2183.00	2208.00	2209.00	2160.00	1303.02	2208.00
Train 3								
Planned unavailable hours	0	0	0	0	12.25	0	0	0
Unplanned unavailable hours	33.75	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	1183.30	2184.00	2183.00	2208.00	2209.00	2160.00	1303.02	2208.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	3.90	15.00	11.52	23.95	11.44	10.42	5.48	33.30
Unplanned unavailable hours	0	0	0	0	0	0	0	3.98
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1169.30	2184.00	2183.00	2208.00	2209.00	2160.00	1285.55	2208.00
Train 2								
Planned unavailable hours	3.90	35.97	9.16	10.70	14.37	12.23	6.71	8.56
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	1169.30	2184.00	2183.00	2208.00	2209.00	2160.00	1285.55	2208.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0.30	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	1048.40	0	0	0	0	0	833.75	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1048.40	0	0	0	0	0	833.75	0
Indicator value	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**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	0.034700	N/A	0.004580	0.005310	0.005620	0.005760	0.006140	0.006770	0.006980	0.007270	0.007640	0.008190
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**3.5**	**N/A**	**0.5**	**0.5**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**0.7**	**0.8**	**0.8**

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	0.010200	0.008570	0.008750	0.009100	0.009450	0.009580	0.020300	0.004560	0.005440	0.005700	0.005500	0.005410
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**1.0**	**0.9**	**0.9**	**0.9**	**0.9**	**1.0**	**2.0**	**0.5**	**0.5**	**0.6**	**0.6**	**0.5**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	0.039	0	0.182	0.082	0.165	0.089	0.148	0.111	0.319	0.169	0.164	0.195
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.4**	**0**	**1.8**	**0.8**	**1.7**	**0.9**	**1.5**	**1.1**	**3.2**	**1.7**	**1.6**	**2.0**
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	0.199	0.204	0.280	0.183	0.279	0.217	0.234	0.407	0.322	0.316	0.289	0.130
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**2.0**	**2.0**	**2.8**	**1.8**	**2.8**	**2.2**	**2.3**	**4.1**	**3.2**	**3.2**	**2.9**	**1.3**

Licensee Comments: none

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	27.0	43.0	11.0	58.0	85.0	30.0	26.0	67.0
Total opportunities	29.0	45.0	16.0	63.0	93.0	30.0	27.0	67.0
Indicator value	**93.1%**	**93.5%**	**92.1%**	**91.5%**	**90.9%**	**91.8%**	**91.6%**	**93.8%**

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	126.0	130.0	131.0	138.0	141.0	136.0	132.0	132.0
Total Key personnel	133.0	133.0	141.0	144.0	143.0	141.0	137.0	138.0
Indicator value	**94.7%**	**97.7%**	**92.9%**	**95.8%**	**98.6%**	**96.5%**	**96.4%**	**95.7%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Successful siren-tests	314	314	312	462	316	312	312	456
Total sirens-tests	318	318	318	477	318	318	318	477
Indicator value	**97.1%**	**97.1%**	**97.3%**	**98.0%**	**98.1%**	**98.0%**	**98.0%**	**97.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**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

Millstone 2

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	2.0	0	0	0	0	0	0	0
Critical hours	2108.5	2183.0	2208.0	2209.0	2160.0	1255.4	2208.0	2209.0
Indicator value	**3.7**	**3.7**	**3.7**	**1.6**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Scrams	1.0	0	0	0	0	0	0	0
Indicator value	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2108.5	2183.0	2208.0	2209.0	2160.0	1255.4	2208.0	2209.0
Indicator value	**0.9**	**0**	**0**	**0.8**	**0.8**	**0.9**	**0.9**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	12.63	8.20	6.26	18.11	5.31	6.19	11.76	40.30
Unplanned unavailable hours	1.03	7.18	0	0	0	0	0	1.15
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	1866.97	2208.00	2209.00
Train 2								
Planned unavailable hours	17.17	7.57	7.29	30.84	5.07	6.26	18.38	5.14
Unplanned unavailable hours	0	0	11.32	0	0	0	0	0.68
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	1631.03	2208.00	2209.00
Indicator value	**1.1%**	**1.1%**	**1.1%**	**1.1%**	**1.0%**	**1.0%**	**0.9%**	**0.8%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	1.50	1.60	0.27	4.83	4.67	3.50	35.96	24.98
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	1315.96	2208.00	2209.00
Train 2								
Planned unavailable hours	0.50	1.10	0.49	5.39	2.68	4.43	3.94	18.93
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	1315.96	2208.00	2209.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	12.50	0	0	0	0	0	14.03	0.50
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	2184.00	2183.00	2208.00	2209.00	2160.00	1303.02	2208.00	2209.00
Train 2								
Planned unavailable hours	0	0	0	4.68	0	0	5.33	16.00
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	2184.00	2183.00	2208.00	2209.00	2160.00	1303.02	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	0	12.25	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	1303.02	2208.00	2209.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	15.00	11.52	23.95	11.44	10.42	5.48	33.30	23.16
Unplanned unavailable hours	0	0	0	0	0	0	3.98	1.15
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	1285.55	2208.00	2209.00
Train 2								
Planned unavailable hours	35.97	9.16	10.70	14.37	12.23	6.71	8.56	36.87
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	1285.55	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	0	833.75	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	0	833.75	0	0
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**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	0.005310	0.005620	0.005760	0.006140	0.006770	0.006980	0.007270	0.007640	0.008190	0.010200	0.008570	0.008750
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**0.7**	**0.8**	**0.8**	**1.0**	**0.9**	**0.9**
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	0.009100	0.009450	0.009580	0.020300	0.004560	0.005440	0.005700	0.005500	0.005410	0.006220	0.005770	0.006120
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.9**	**0.9**	**1.0**	**2.0**	**0.5**	**0.5**	**0.6**	**0.6**	**0.5**	**0.6**	**0.6**	**0.6**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum leakage	0.082	0.165	0.089	0.148	0.111	0.319	0.169	0.164	0.195	0.199	0.204	0.280
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.8**	**1.7**	**0.9**	**1.5**	**1.1**	**3.2**	**1.7**	**1.6**	**2.0**	**2.0**	**2.0**	**2.8**
Reactor Coolant System Leakage	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**
Maximum leakage	0.183	0.279	0.217	0.234	0.407	0.322	0.316	0.289	0.130	0.241	0.285	0.325
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.8**	**2.8**	**2.2**	**2.3**	**4.1**	**3.2**	**3.2**	**2.9**	**1.3**	**2.4**	**2.9**	**3.3**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful opportunities	43.0	11.0	54.0	85.0	30.0	26.0	67.0	0
Total opportunities	45.0	16.0	59.0	93.0	30.0	27.0	67.0	0
Indicator value	**93.5%**	**92.1%**	**91.3%**	**90.8%**	**91.7%**	**91.5%**	**93.7%**	**93.8%**

Licensee Comments:

4Q/05: The PAR opportunity data for Drill/Exercise Performance indicator for the 3rd quarter 2004 was revised to reflect errors identified during the 2005 EP Program Audit conducted by the NRC. These corrections did not result in the indicator value crossing the GREEN/WHITE threshold.

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	130.0	131.0	138.0	141.0	136.0	132.0	132.0	130.0
Total Key personnel	133.0	141.0	144.0	143.0	141.0	137.0	138.0	139.0
Indicator value	**97.7%**	**92.9%**	**95.8%**	**98.6%**	**96.5%**	**96.4%**	**95.7%**	**93.5%**

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	314	312	462	316	312	312	456	306
Total sirens-tests	318	318	477	318	318	318	477	318
Indicator value	**97.1%**	**97.3%**	**98.0%**	**98.1%**	**98.0%**	**98.0%**	**97.6%**	**96.9%**

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

Millstone 2

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	1.0
Critical hours	2183.0	2208.0	2209.0	2160.0	1255.4	2208.0	2209.0	2127.8
Indicator value	**3.7**	**3.7**	**1.6**	**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/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Scrams	0	0	0	0	0	0	0	1.0
Indicator value	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**3.0**

Licensee Comments:

1Q/06: On February 23, 2006, Unit 2 was manually tripped from 100% power due to a trip of the "A" and "B" main feedwater pumps on low suction pressure following a partial loss of instrument air in the turbine building. This was the third SCRAM With the Loss of Normal Heat Removal and has caused this indicator to cross the GREEN/WHITE threshold. The two previous occurrences were on November 28, 2003, and March 6, 2004.

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	1.0	0	0	0	0	0
Critical hours	2183.0	2208.0	2209.0	2160.0	1255.4	2208.0	2209.0	2127.8
Indicator value	**0**	**0**	**0.8**	**0.8**	**0.9**	**0.9**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	8.20	6.26	18.11	5.31	6.19	11.76	40.30	4.34
Unplanned unavailable hours	7.18	0	0	0	0	0	1.15	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	2183.00	2208.00	2209.00	2160.00	1866.97	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	7.57	7.29	30.84	5.07	6.26	18.38	5.14	4.00
Unplanned unavailable hours	0	11.32	0	0	0	0	0.68	0.20
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1631.03	2208.00	2209.00	2160.00
Indicator value	**1.1%**	**1.1%**	**1.1%**	**1.0%**	**1.0%**	**0.9%**	**0.8%**	**0.7%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	1.60	0.27	4.83	4.67	3.50	35.96	24.98	9.20
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1315.96	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	1.10	0.49	5.39	2.68	4.43	3.94	18.93	0.73
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	2183.00	2208.00	2209.00	2160.00	1315.96	2208.00	2209.00	2160.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	0	0	0	0	0	14.03	0.50	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1303.02	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	0	0	4.68	0	0	5.33	16.00	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1303.02	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	0	0	12.25	0	0	0	0	19.15
Unplanned unavailable hours	0	0	0	0	0	0	0	48.15
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1303.02	2208.00	2209.00	2160.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	11.52	23.95	11.44	10.42	5.48	33.30	23.16	2.00
Unplanned unavailable hours	0	0	0	0	0	3.98	1.15	0.13
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	1285.55	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	9.16	10.70	14.37	12.23	6.71	8.56	36.87	6.28
Unplanned unavailable hours	0	0	0	0	0	0	0	0.20
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1285.55	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	833.75	0	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	833.75	0	0	0
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum activity	0.006140	0.006770	0.006980	0.007270	0.007640	0.008190	0.010200	0.008570	0.008750	0.009100	0.009450	0.009580
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.6**	**0.7**	**0.7**	**0.7**	**0.8**	**0.8**	**1.0**	**0.9**	**0.9**	**0.9**	**0.9**	**1.0**

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	0.020300	0.004560	0.005440	0.005700	0.005500	0.005410	0.006220	0.005770	0.006120	0.006190	0.006460	0.006470
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**2.0**	**0.5**	**0.5**	**0.6**	**0.6**	**0.5**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum leakage	0.148	0.111	0.319	0.169	0.164	0.195	0.199	0.204	0.280	0.183	0.279	0.217
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.5**	**1.1**	**3.2**	**1.7**	**1.6**	**2.0**	**2.0**	**2.0**	**2.8**	**1.8**	**2.8**	**2.2**
Reactor Coolant System Leakage	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**
Maximum leakage	0.234	0.407	0.322	0.316	0.289	0.130	0.241	0.285	0.325	0.477	0.347	0.162
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**2.3**	**4.1**	**3.2**	**3.2**	**2.9**	**1.3**	**2.4**	**2.9**	**3.3**	**4.8**	**3.5**	**1.6**

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	11.0	54.0	85.0	30.0	26.0	67.0	0	17.0
Total opportunities	16.0	59.0	93.0	30.0	27.0	67.0	0	19.0
Indicator value	**92.1%**	**91.3%**	**90.8%**	**91.7%**	**91.5%**	**93.7%**	**93.8%**	**93.2%**

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	131.0	138.0	141.0	136.0	132.0	132.0	130.0	136.0
Total Key personnel	141.0	144.0	143.0	141.0	137.0	138.0	139.0	149.0
Indicator value	**92.9%**	**95.8%**	**98.6%**	**96.5%**	**96.4%**	**95.7%**	**93.5%**	**91.3%**

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	312	462	316	312	312	456	306	306
Total sirens-tests	318	477	318	318	318	477	318	318
Indicator value	**97.3%**	**98.0%**	**98.1%**	**98.0%**	**98.0%**	**97.6%**	**96.9%**	**96.4%**

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

Millstone 2

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	1.0	0
Critical hours	2208.0	2209.0	2160.0	1255.4	2208.0	2209.0	2127.8	2007.6
Indicator value	**3.7**	**1.6**	**0**	**0**	**0**	**0**	**0.9**	**0.8**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Scrams	0	0	0	0	0	0	1.0	0
Indicator value	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**3.0**	**3.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2160.0	1255.4	2208.0	2209.0	2127.8	2007.6
Indicator value	**0**	**0.8**	**0.8**	**0.9**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								2.70E-10
URI (ΔCDF)								-5.40E-07
PLE								NO
Indicator value								**-5.40E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								-5.70E-08
URI (ΔCDF)								-1.60E-07
PLE								NO
Indicator value								**-2.17E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								5.10E-08
URI (ΔCDF)								1.90E-07
PLE								NO
Indicator value								**2.41E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								-1.00E-09
URI (ΔCDF)								-3.30E-08
PLE								NO
Indicator value								**-3.40E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								2.10E-07
URI (ΔCDF)								-2.60E-07
PLE								NO
Indicator value								**-5.00E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**
Maximum activity	0.007270	0.007640	0.008190	0.010200	0.008570	0.008750	0.009100	0.009450	0.009580	0.020300	0.004560	0.005440
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.7**	**0.8**	**0.8**	**1.0**	**0.9**	**0.9**	**0.9**	**0.9**	**1.0**	**2.0**	**0.5**	**0.5**
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	0.005700	0.005500	0.005410	0.006220	0.005770	0.006120	0.006190	0.006460	0.006470	0.006670	0.007270	0.007110
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.6**	**0.6**	**0.5**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**0.7**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**
Maximum leakage	0.169	0.164	0.195	0.199	0.204	0.280	0.183	0.279	0.217	0.234	0.407	0.322
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.7**	**1.6**	**2.0**	**2.0**	**2.0**	**2.8**	**1.8**	**2.8**	**2.2**	**2.3**	**4.1**	**3.2**
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	0.316	0.289	0.130	0.241	0.285	0.325	0.477	0.347	0.162	0.095	0.019	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**3.2**	**2.9**	**1.3**	**2.4**	**2.9**	**3.3**	**4.8**	**3.5**	**1.6**	**1.0**	**0.2**	**0.5**

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	54.0	85.0	30.0	26.0	67.0	0	17.0	31.0
Total opportunities	59.0	93.0	30.0	27.0	67.0	0	19.0	32.0
Indicator value	**91.3%**	**90.8%**	**91.7%**	**91.5%**	**93.7%**	**93.8%**	**93.2%**	**94.8%**

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	138.0	141.0	136.0	132.0	132.0	130.0	136.0	138.0
Total Key personnel	144.0	143.0	141.0	137.0	138.0	139.0	149.0	147.0
Indicator value	**95.8%**	**98.6%**	**96.5%**	**96.4%**	**95.7%**	**93.5%**	**91.3%**	**93.9%**

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	462	316	312	312	456	306	306	304
Total sirens-tests	477	318	318	318	477	318	318	318
Indicator value	**98.0%**	**98.1%**	**98.0%**	**98.0%**	**97.6%**	**96.9%**	**96.4%**	**95.9%**

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

Millstone 2

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	1.0	0	0
Critical hours	2209.0	2160.0	1255.4	2208.0	2209.0	2127.8	2007.6	2208.0
Indicator value	**1.6**	**0**	**0**	**0**	**0**	**0.9**	**0.8**	**0.8**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Scrams	0	0	0	0	0	1.0	0	0
Indicator value	**2.0**	**2.0**	**2.0**	**2.0**	**2.0**	**3.0**	**3.0**	**3.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned power changes	1.0	0	0	0	0	1.0	0	0
Critical hours	2209.0	2160.0	1255.4	2208.0	2209.0	2127.8	2007.6	2208.0
Indicator value	**0.8**	**0.8**	**0.9**	**0.9**	**0**	**0.9**	**0.8**	**0.8**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**4Q/04**	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**
UAI (ΔCDF)							2.70E-10	1.90E-08
URI (ΔCDF)							-5.40E-07	-5.40E-07
PLE							NO	NO
Indicator value							**-5.40E-07**	**-5.21E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**4Q/04**	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**
UAI (ΔCDF)							-5.70E-08	-5.70E-08
URI (ΔCDF)							-1.60E-07	-1.50E-07
PLE							NO	NO
Indicator value							**-2.17E-07**	**-2.07E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							6.60E-08	9.50E-08
URI (ΔCDF)							1.90E-07	2.00E-07
PLE							NO	NO
Indicator value							**2.56E-07**	**2.95E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**4Q/04**	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**
UAI (ΔCDF)							-1.00E-09	-1.00E-09
URI (ΔCDF)							-3.30E-08	-3.10E-08
PLE							NO	NO
Indicator value							**-3.40E-08**	**-3.20E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**4Q/04**	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**
UAI (ΔCDF)							2.10E-07	1.60E-07
URI (ΔCDF)							-2.60E-07	-2.60E-07
PLE							NO	NO
Indicator value							**-5.00E-08**	**-1.00E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**
Maximum activity	0.010200	0.008570	0.008750	0.009100	0.009450	0.009580	0.020300	0.004560	0.005440	0.005700	0.005500	0.005410
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**1.0**	**0.9**	**0.9**	**0.9**	**0.9**	**1.0**	**2.0**	**0.5**	**0.5**	**0.6**	**0.6**	**0.5**
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	0.006220	0.005770	0.006120	0.006190	0.006460	0.006470	0.006670	0.007270	0.007110	0.007140	0.007520	0.014800
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**0.7**	**0.7**	**0.8**	**1.5**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**
Maximum leakage	0.199	0.204	0.280	0.183	0.279	0.217	0.234	0.407	0.322	0.316	0.289	0.130
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**2.0**	**2.0**	**2.8**	**1.8**	**2.8**	**2.2**	**2.3**	**4.1**	**3.2**	**3.2**	**2.9**	**1.3**
Reactor Coolant System Leakage	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**
Maximum leakage	0.241	0.285	0.325	0.477	0.347	0.162	0.095	0.019	0.050	1.055	0.084	0.073
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**2.4**	**2.9**	**3.3**	**4.8**	**3.5**	**1.6**	**1.0**	**0.2**	**0.5**	**10.6**	**0.8**	**0.7**

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	85.0	30.0	26.0	67.0	0	17.0	31.0	64.0
Total opportunities	93.0	30.0	27.0	67.0	0	19.0	32.0	70.0
Indicator value	**90.8%**	**91.7%**	**91.5%**	**93.7%**	**93.8%**	**93.2%**	**94.8%**	**94.7%**

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	141.0	136.0	132.0	132.0	130.0	136.0	138.0	143.0
Total Key personnel	143.0	141.0	137.0	138.0	139.0	149.0	147.0	154.0
Indicator value	**98.6%**	**96.5%**	**96.4%**	**95.7%**	**93.5%**	**91.3%**	**93.9%**	**92.9%**

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	316	312	312	456	306	306	304	450
Total sirens-tests	318	318	318	477	318	318	318	477
Indicator value	**98.1%**	**98.0%**	**98.0%**	**97.6%**	**96.9%**	**96.4%**	**95.9%**	**95.5%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
High radiation area occurrences	0	0	0	0	0	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

Millstone 2

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	1.0	0	0	0
Critical hours	2160.0	1255.4	2208.0	2209.0	2127.8	2007.6	2208.0	1177.1
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**0.8**	**0.8**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Scrams	0	0	0	0	1.0	0	0	0
Indicator value	**2.0**	**2.0**	**2.0**	**2.0**	**3.0**	**3.0**	**3.0**	**2.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2160.0	1255.4	2208.0	2209.0	2127.8	2007.6	2208.0	1177.1
Indicator value	**0.8**	**0.9**	**0.9**	**0**	**0.9**	**0.8**	**0.8**	**0.9**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**
UAI (ΔCDF)						8.10E-09	2.60E-08	2.50E-08
URI (ΔCDF)						-5.40E-07	-5.40E-07	-5.40E-07
PLE						NO	NO	NO
Indicator value						**-5.32E-07**	**-5.14E-07**	**-5.15E-07**

Licensee Comments:

4Q/06: During an NRC Inspection for MSPI there were some inconsistencies identified between the station internal databases and CDE. As a result, the data was reviewed and CDE was corrected where. The corrections did not result in a threshold exceedance.

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)						-4.40E-08	-4.90E-08	-5.70E-08
URI (ΔCDF)						-1.70E-07	-1.60E-07	-1.60E-07
PLE						NO	NO	NO
Indicator value						**-2.14E-07**	**-2.09E-07**	**-2.17E-07**

Licensee Comments:

4Q/06: Changed PRA Parameter(s). Changed PRA Parameter(s). During an NRC Inspection for MSPI there were some inconsistencies identified between the station internal databases and CDE. As a result, the data was reviewed and CDE was corrected where. The corrections did not result in a threshold exceedance.

3Q/06: Changed PRA Parameter(s).

2Q/06: 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	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						2.90E-08	5.80E-08	5.70E-08
URI (ΔCDF)						1.90E-07	2.00E-07	1.70E-07
PLE						NO	NO	NO
Indicator value						**2.19E-07**	**2.58E-07**	**2.27E-07**

Licensee Comments:

4Q/06: During an NRC Inspection for MSPI there were some inconsistencies identified between the station internal databases and CDE. As a result, the data was reviewed and CDE was corrected where. The corrections did not result in a threshold exceedance.

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)						-1.00E-09	-1.00E-09	-1.00E-09
URI (ΔCDF)						-3.30E-08	-3.10E-08	-2.80E-08
PLE						NO	NO	NO
Indicator value						**-3.40E-08**	**-3.20E-08**	**-2.90E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						-6.10E-09	-6.10E-09	-1.40E-08
URI (ΔCDF)						-2.60E-07	-2.60E-07	-2.60E-07
PLE						NO	NO	NO
Indicator value						**-2.66E-07**	**-2.66E-07**	**-2.74E-07**

Licensee Comments:

4Q/06: Changed PRA Parameter(s). Changed PRA Parameter(s). During an NRC Inspection for MSPI there were some inconsistencies identified between the station internal databases and CDE. As a result, the data was reviewed and CDE was corrected where. The corrections did not result in a threshold exceedance.

3Q/06: Changed PRA Parameter(s).

2Q/06: Changed PRA Parameter(s).

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	0.009100	0.009450	0.009580	0.020300	0.004560	0.005440	0.005700	0.005500	0.005410	0.006220	0.005770	0.006120
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.9**	**0.9**	**1.0**	**2.0**	**0.5**	**0.5**	**0.6**	**0.6**	**0.5**	**0.6**	**0.6**	**0.6**
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	0.006190	0.006460	0.006470	0.006670	0.007270	0.007110	0.007140	0.007520	0.014800	0.015000	0.002520	0.002840
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**0.7**	**0.7**	**0.8**	**1.5**	**1.5**	**0.3**	**0.3**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**
Maximum leakage	0.183	0.279	0.217	0.234	0.407	0.322	0.316	0.289	0.130	0.241	0.285	0.325
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.8**	**2.8**	**2.2**	**2.3**	**4.1**	**3.2**	**3.2**	**2.9**	**1.3**	**2.4**	**2.9**	**3.3**
Reactor Coolant System Leakage	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**
Maximum leakage	0.477	0.347	0.162	0.095	0.019	0.050	1.055	0.084	0.073	0.210	0.025	0.024
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**4.8**	**3.5**	**1.6**	**1.0**	**0.2**	**0.5**	**10.6**	**0.8**	**0.7**	**2.1**	**0.3**	**0.2**

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	30.0	26.0	67.0	0	17.0	31.0	64.0	0
Total opportunities	30.0	27.0	67.0	0	19.0	32.0	70.0	0
Indicator value	**91.7%**	**91.5%**	**93.7%**	**93.8%**	**93.2%**	**94.8%**	**94.7%**	**95.9%**

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	136.0	132.0	132.0	130.0	136.0	138.0	143.0	133.0
Total Key personnel	141.0	137.0	138.0	139.0	149.0	147.0	154.0	146.0
Indicator value	**96.5%**	**96.4%**	**95.7%**	**93.5%**	**91.3%**	**93.9%**	**92.9%**	**91.1%**

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	312	312	456	306	306	304	450	310
Total sirens-tests	318	318	477	318	318	318	477	318
Indicator value	**98.0%**	**98.0%**	**97.6%**	**96.9%**	**96.4%**	**95.9%**	**95.5%**	**95.7%**

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

Millstone 2

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	1.0	0	0	0	0
Critical hours	1255.4	2208.0	2209.0	2127.8	2007.6	2208.0	1177.1	2159.0
Indicator value	**0**	**0**	**0**	**0.9**	**0.8**	**0.8**	**0.9**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Scrams	0	0	0	1.0	0	0	0	0
Indicator value	**2.0**	**2.0**	**2.0**	**3.0**	**3.0**	**3.0**	**2.0**	**1.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	1255.4	2208.0	2209.0	2127.8	2007.6	2208.0	1177.1	2159.0
Indicator value	**0.9**	**0.9**	**0**	**0.9**	**0.8**	**0.8**	**0.9**	**0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					8.10E-09	2.60E-08	2.50E-08	9.30E-08
URI (ΔCDF)					-5.40E-07	-5.40E-07	-5.40E-07	-5.50E-07
PLE					NO	NO	NO	NO
Indicator value					**-5.32E-07**	**-5.14E-07**	**-5.15E-07**	**-4.57E-07**

Licensee Comments:

1Q/07: Revised baseline unavailability to account for overhauls being performed in the first and second quarter 2007.

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)					-4.40E-08	-4.90E-08	-5.70E-08	-5.70E-08
URI (ΔCDF)					-1.70E-07	-1.60E-07	-1.60E-07	-1.50E-07
PLE					NO	NO	NO	NO
Indicator value					**-2.14E-07**	**-2.09E-07**	**-2.17E-07**	**-2.07E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					2.90E-08	5.80E-08	5.70E-08	5.70E-08
URI (ΔCDF)					1.90E-07	2.00E-07	1.70E-07	2.00E-07
PLE					NO	NO	NO	NO
Indicator value					**2.19E-07**	**2.58E-07**	**2.27E-07**	**2.57E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09
URI (ΔCDF)					-3.30E-08	-3.00E-08	-2.80E-08	-2.50E-08
PLE					NO	NO	NO	NO
Indicator value					**-3.40E-08**	**-3.10E-08**	**-2.90E-08**	**-2.60E-08**

Licensee Comments:

1Q/07: Removed 2-RB-13.1A/B as monitored component due to low Birnbaum.

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)					-6.10E-09	-6.10E-09	-1.40E-08	-1.60E-08
URI (ΔCDF)					-2.60E-07	-2.60E-07	-2.60E-07	-2.60E-07
PLE					NO	NO	NO	NO
Indicator value					**-2.66E-07**	**-2.66E-07**	**-2.74E-07**	**-2.76E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**
Maximum activity	0.020300	0.004560	0.005440	0.005700	0.005500	0.005410	0.006220	0.005770	0.006120	0.006190	0.006460	0.006470
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**2.0**	**0.5**	**0.5**	**0.6**	**0.6**	**0.5**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**
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	0.006670	0.007270	0.007110	0.007140	0.007520	0.014800	0.015000	0.002520	0.002840	0.002990	0.003130	0.003180
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.7**	**0.7**	**0.7**	**0.7**	**0.8**	**1.5**	**1.5**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**
Maximum leakage	0.234	0.407	0.322	0.316	0.289	0.130	0.241	0.285	0.325	0.477	0.347	0.162
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**2.3**	**4.1**	**3.2**	**3.2**	**2.9**	**1.3**	**2.4**	**2.9**	**3.3**	**4.8**	**3.5**	**1.6**
Reactor Coolant System Leakage	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**
Maximum leakage	0.095	0.019	0.050	1.055	0.084	0.073	0.210	0.025	0.024	0.051	0.037	0.039
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.0**	**0.2**	**0.5**	**10.6**	**0.8**	**0.7**	**2.1**	**0.3**	**0.2**	**0.5**	**0.4**	**0.4**

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	26.0	67.0	0	17.0	31.0	64.0	0	11.0
Total opportunities	27.0	67.0	0	19.0	32.0	70.0	0	13.0
Indicator value	**91.5%**	**93.7%**	**93.8%**	**93.2%**	**94.8%**	**94.7%**	**95.9%**	**94.7%**

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	132.0	132.0	130.0	136.0	138.0	143.0	133.0	131.0
Total Key personnel	137.0	138.0	139.0	149.0	147.0	154.0	146.0	146.0
Indicator value	**96.4%**	**95.7%**	**93.5%**	**91.3%**	**93.9%**	**92.9%**	**91.1%**	**89.7%**

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	312	456	306	306	304	450	310	312
Total sirens-tests	318	477	318	318	318	477	318	318
Indicator value	**98.0%**	**97.6%**	**96.9%**	**96.4%**	**95.9%**	**95.5%**	**95.7%**	**96.2%**

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

Millstone 2

2Q/2007 Performance Indicators

Licensee's General Comments: none

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	1.0	0	0	0	0	0
Critical hours	2208.0	2209.0	2127.8	2007.6	2208.0	1177.1	2159.0	2184.0
Indicator value	**0**	**0**	**0.9**	**0.8**	**0.8**	**0.9**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Scrams	0	0	1.0	0	0	0	0	0
Indicator value	**2.0**	**2.0**	**3.0**	**3.0**	**3.0**	**2.0**	**1.0**	**1.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	2208.0	2209.0	2127.8	2007.6	2208.0	1177.1	2159.0	2184.0
Indicator value	**0.9**	**0**	**0.9**	**0.8**	**0.8**	**0.9**	**0**	**0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				8.10E-09	2.60E-08	2.50E-08	9.30E-08	-4.20E-08
URI (ΔCDF)				-5.40E-07	-5.40E-07	-5.40E-07	-5.50E-07	-5.40E-07
PLE				NO	NO	NO	NO	NO
Indicator value				**-5.32E-07**	**-5.14E-07**	**-5.15E-07**	**-4.57E-07**	**-5.82E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				-4.40E-08	-4.90E-08	-5.70E-08	-5.70E-08	-5.70E-08
URI (ΔCDF)				-1.70E-07	-1.60E-07	-1.60E-07	-1.50E-07	-1.40E-07
PLE				NO	NO	NO	NO	NO
Indicator value				**-2.14E-07**	**-2.09E-07**	**-2.17E-07**	**-2.07E-07**	**-1.97E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				2.90E-08	5.80E-08	5.70E-08	5.70E-08	6.00E-08
URI (ΔCDF)				1.90E-07	2.00E-07	1.70E-07	2.00E-07	2.00E-07
PLE				NO	NO	NO	NO	NO
Indicator value				**2.19E-07**	**2.58E-07**	**2.27E-07**	**2.57E-07**	**2.60E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09
URI (ΔCDF)				-3.30E-08	-3.00E-08	-2.80E-08	-2.50E-08	-2.30E-08
PLE				NO	NO	NO	NO	NO
Indicator value				**-3.40E-08**	**-3.10E-08**	**-2.90E-08**	**-2.60E-08**	**-2.40E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				-6.10E-09	-6.10E-09	-1.40E-08	-1.60E-08	-2.20E-08
URI (ΔCDF)				-2.60E-07	-2.60E-07	-2.60E-07	-2.60E-07	-2.60E-07
PLE				NO	NO	NO	NO	NO
Indicator value				**-2.66E-07**	**-2.66E-07**	**-2.74E-07**	**-2.76E-07**	**-2.82E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**
Maximum activity	0.005700	0.005500	0.005410	0.006220	0.005770	0.006120	0.006190	0.006460	0.006470	0.006670	0.007270	0.007110
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.6**	**0.6**	**0.5**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**0.7**

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	0.007140	0.007520	0.014800	0.015000	0.002520	0.002840	0.002990	0.003130	0.003180	0.003240	0.003440	0.003400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.7**	**0.8**	**1.5**	**1.5**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**
Maximum leakage	0.316	0.289	0.130	0.241	0.285	0.325	0.477	0.347	0.162	0.095	0.019	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**3.2**	**2.9**	**1.3**	**2.4**	**2.9**	**3.3**	**4.8**	**3.5**	**1.6**	**1.0**	**0.2**	**0.5**
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	1.055	0.084	0.073	0.210	0.025	0.024	0.051	0.023	0.039	0.015	0.024	0.018
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**10.6**	**0.8**	**0.7**	**2.1**	**0.3**	**0.2**	**0.5**	**0.2**	**0.4**	**0.2**	**0.2**	**0.2**

Licensee Comments:

6/07: January, February, and March RCS leakage data was revised to correct data collection errors. These corrections did NOT result in the GREEN/WHITE threshold being crossed.

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	67.0	0	17.0	31.0	64.0	0	10.0	42.0
Total opportunities	67.0	0	19.0	32.0	70.0	0	12.0	45.0
Indicator value	**93.7%**	**93.8%**	**93.2%**	**94.8%**	**94.7%**	**95.9%**	**94.7%**	**94.3%**

Licensee Comments:

2Q/07: January and March Emergency Response Organization Drill/Exercise Performance data was revised to correct data collection errors. These corrections did NOT result in the GREEN/WHITE threshold being crossed.

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	132.0	130.0	136.0	138.0	143.0	133.0	130.0	139.0
Total Key personnel	138.0	139.0	149.0	147.0	154.0	146.0	145.0	145.0
Indicator value	**95.7%**	**93.5%**	**91.3%**	**93.9%**	**92.9%**	**91.1%**	**89.7%**	**95.9%**

Licensee Comments:

2Q/07: January and March Emergency Response Organization Drill Participation data was revised to correct data collection errors. These corrections did NOT result in the GREEN/WHITE threshold being crossed.

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	456	306	306	304	450	310	312	314
Total sirens-tests	477	318	318	318	477	318	318	318
Indicator value	**97.6%**	**96.9%**	**96.4%**	**95.9%**	**95.5%**	**95.7%**	**96.2%**	**96.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
High radiation area occurrences	0	0	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

Millstone 2

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	1.0	0	0	0	0	0	0
Critical hours	2209.0	2127.8	2007.6	2208.0	1177.1	2159.0	2184.0	2208.0
Indicator value	**0**	**0.9**	**0.8**	**0.8**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2209.0	2127.8	2007.6	2208.0	1177.1	2159.0	2184.0	2208.0
Indicator value	**0**	**0.9**	**0.8**	**0.8**	**0.9**	**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	0	0	0
Indicator value								**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			8.10E-09	2.60E-08	2.50E-08	9.30E-08	-4.20E-08	-4.90E-08
URI (ΔCDF)			-5.40E-07	-5.40E-07	-5.40E-07	-5.50E-07	-5.40E-07	-5.40E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-5.32E-07**	**-5.14E-07**	**-5.15E-07**	**-4.57E-07**	**-5.82E-07**	**-5.89E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			-4.40E-08	-4.90E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08
URI (ΔCDF)			-1.70E-07	-1.60E-07	-1.60E-07	-1.50E-07	-1.40E-07	-1.20E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-2.14E-07**	**-2.09E-07**	**-2.17E-07**	**-2.07E-07**	**-1.97E-07**	**-1.77E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			2.90E-08	5.80E-08	5.70E-08	5.70E-08	6.00E-08	6.20E-08
URI (ΔCDF)			1.90E-07	2.00E-07	1.70E-07	2.00E-07	2.00E-07	2.10E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**2.19E-07**	**2.58E-07**	**2.27E-07**	**2.57E-07**	**2.60E-07**	**2.72E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09
URI (ΔCDF)			-3.30E-08	-3.00E-08	-2.80E-08	-2.50E-08	-2.30E-08	-2.00E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-3.40E-08**	**-3.10E-08**	**-2.90E-08**	**-2.60E-08**	**-2.40E-08**	**-2.10E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			-6.10E-09	-6.10E-09	-1.40E-08	-1.60E-08	-2.20E-08	-3.00E-08
URI (ΔCDF)			-2.60E-07	-2.60E-07	-2.60E-07	-2.60E-07	-2.60E-07	-2.60E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-2.66E-07**	**-2.66E-07**	**-2.74E-07**	**-2.76E-07**	**-2.82E-07**	**-2.90E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**
Maximum activity	0.006220	0.005770	0.006120	0.006190	0.006460	0.006470	0.006670	0.007270	0.007110	0.007140	0.007520	0.014800
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**0.7**	**0.7**	**0.8**	**1.5**
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	0.015000	0.002520	0.002840	0.002990	0.003130	0.003180	0.003240	0.003440	0.003400	0.003560	0.003560	0.003610
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**1.5**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**
Maximum leakage	0.241	0.285	0.325	0.477	0.347	0.162	0.095	0.019	0.050	1.055	0.084	0.073
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**2.4**	**2.9**	**3.3**	**4.8**	**3.5**	**1.6**	**1.0**	**0.2**	**0.5**	**10.6**	**0.8**	**0.7**
Reactor Coolant System Leakage	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**
Maximum leakage	0.210	0.025	0.024	0.051	0.023	0.039	0.015	0.024	0.018	0.096	0.012	0.035
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**2.1**	**0.3**	**0.2**	**0.5**	**0.2**	**0.4**	**0.2**	**0.2**	**0.2**	**1.0**	**0.1**	**0.4**

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	0	17.0	31.0	64.0	0	10.0	42.0	30.0
Total opportunities	0	19.0	32.0	70.0	0	12.0	45.0	31.0
Indicator value	**93.8%**	**93.2%**	**94.8%**	**94.7%**	**95.9%**	**94.7%**	**94.3%**	**92.8%**

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	130.0	136.0	138.0	143.0	133.0	130.0	139.0	145.0
Total Key personnel	139.0	149.0	147.0	154.0	146.0	145.0	145.0	149.0
Indicator value	**93.5%**	**91.3%**	**93.9%**	**92.9%**	**91.1%**	**89.7%**	**95.9%**	**97.3%**

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	306	306	304	450	310	312	314	453
Total sirens-tests	318	318	318	477	318	318	318	477
Indicator value	**96.9%**	**96.4%**	**95.9%**	**95.5%**	**95.7%**	**96.2%**	**96.9%**	**97.1%**

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

Millstone 2

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	1.0	0	0	0	0	0	0	0
Critical hours	2127.8	2007.6	2208.0	1177.1	2159.0	2184.0	2208.0	2209.0
Indicator value	**0.9**	**0.8**	**0.8**	**0.9**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned power changes	1.0	0	0	0	0	0	0	1.0
Critical hours	2127.8	2007.6	2208.0	1177.1	2159.0	2184.0	2208.0	2209.0
Indicator value	**0.9**	**0.8**	**0.8**	**0.9**	**0**	**0**	**0**	**0.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		-3.70E-08	-3.70E-08	-3.80E-08	-1.50E-08	-1.40E-09	1.60E-09	3.30E-09
URI (ΔCDF)		-5.40E-07	-5.40E-07	-5.40E-07	-5.50E-07	-5.40E-07	-5.40E-07	-5.50E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-5.77E-07**	**-5.77E-07**	**-5.78E-07**	**-5.65E-07**	**-5.41E-07**	**-5.38E-07**	**-5.47E-07**

Licensee Comments:

4Q/07: Changed PRA Parameter(s). Changed baseline unavailability due to 1 overhaul being performed during 3 year period

3Q/07: Changed PRA Parameter(s).

2Q/07: Changed PRA Parameter(s).

1Q/07: Changed PRA Parameter(s). Revised baseline unavailability to account for overhauls being performed in the first and second quarter 2007.

4Q/06: Changed PRA Parameter(s). During an NRC Inspection for MSPI there were some inconsistencies identified between the station internal databases and CDE. As a result, the data was reviewed and CDE was corrected where. The corrections did not result in a threshold exceedance.

3Q/06: Changed PRA Parameter(s).

2Q/06: 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	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		-4.40E-08	-4.90E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08
URI (ΔCDF)		-1.70E-07	-1.60E-07	-1.60E-07	-1.50E-07	-1.40E-07	-1.20E-07	-1.10E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-2.14E-07**	**-2.09E-07**	**-2.17E-07**	**-2.07E-07**	**-1.97E-07**	**-1.77E-07**	**-1.67E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		2.90E-08	5.80E-08	5.70E-08	5.70E-08	6.00E-08	6.20E-08	4.20E-08
URI (ΔCDF)		1.90E-07	2.00E-07	1.70E-07	2.00E-07	2.00E-07	2.10E-07	2.10E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**2.19E-07**	**2.58E-07**	**2.27E-07**	**2.57E-07**	**2.60E-07**	**2.72E-07**	**2.52E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09
URI (ΔCDF)		-3.30E-08	-3.00E-08	-2.80E-08	-2.50E-08	-2.30E-08	-2.00E-08	-1.80E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-3.40E-08**	**-3.10E-08**	**-2.90E-08**	**-2.60E-08**	**-2.40E-08**	**-2.10E-08**	**-1.90E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		-6.10E-09	-6.10E-09	-1.40E-08	-1.60E-08	-2.20E-08	-3.00E-08	-1.90E-08
URI (ΔCDF)		-2.60E-07	-2.60E-07	-2.60E-07	-2.60E-07	-2.60E-07	-2.60E-07	4.20E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-2.66E-07**	**-2.66E-07**	**-2.74E-07**	**-2.76E-07**	**-2.82E-07**	**-2.90E-07**	**4.01E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**
Maximum activity	0.006190	0.006460	0.006470	0.006670	0.007270	0.007110	0.007140	0.007520	0.014800	0.015000	0.002520	0.002840
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**0.7**	**0.7**	**0.8**	**1.5**	**1.5**	**0.3**	**0.3**
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	0.002990	0.003130	0.003180	0.003240	0.003440	0.003400	0.003560	0.003560	0.003610	0.003320	0.003400	0.003510
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.3**	**0.3**	**0.4**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**
Maximum leakage	0.477	0.347	0.162	0.095	0.019	0.050	1.055	0.084	0.073	0.210	0.025	0.024
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**4.8**	**3.5**	**1.6**	**1.0**	**0.2**	**0.5**	**10.6**	**0.8**	**0.7**	**2.1**	**0.3**	**0.2**
Reactor Coolant System Leakage	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**
Maximum leakage	0.051	0.023	0.039	0.015	0.024	0.018	0.096	0.012	0.035	0.033	0.024	0.014
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.5**	**0.2**	**0.4**	**0.2**	**0.2**	**0.2**	**1.0**	**0.1**	**0.4**	**0.3**	**0.2**	**0.1**

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	17.0	31.0	64.0	0	10.0	42.0	30.0	36.0
Total opportunities	19.0	32.0	70.0	0	12.0	45.0	31.0	40.0
Indicator value	**93.2%**	**94.8%**	**94.7%**	**95.9%**	**94.7%**	**94.3%**	**92.8%**	**92.4%**

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	136.0	138.0	143.0	133.0	130.0	139.0	145.0	140.0
Total Key personnel	149.0	147.0	154.0	146.0	145.0	145.0	149.0	147.0
Indicator value	**91.3%**	**93.9%**	**92.9%**	**91.1%**	**89.7%**	**95.9%**	**97.3%**	**95.2%**

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	306	304	450	310	312	314	453	308
Total sirens-tests	318	318	477	318	318	318	477	318
Indicator value	**96.4%**	**95.9%**	**95.5%**	**95.7%**	**96.2%**	**96.9%**	**97.1%**	**96.9%**

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

Millstone 2

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	0	0	0	0	0
Critical hours	2007.6	2208.0	1177.1	2159.0	2184.0	2208.0	2209.0	2183.0
Indicator value	**0.8**	**0.8**	**0.9**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	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	2007.6	2208.0	1177.1	2159.0	2184.0	2208.0	2209.0	2183.0
Indicator value	**0.8**	**0.8**	**0.9**	**0**	**0**	**0**	**0.8**	**0.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	-3.70E-08	-3.70E-08	-3.80E-08	-1.50E-08	-1.40E-09	1.60E-09	3.30E-09	6.30E-08
URI (ΔCDF)	-5.40E-07	-5.40E-07	-5.40E-07	-5.50E-07	-5.40E-07	-5.40E-07	-5.50E-07	-5.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.77E-07**	**-5.77E-07**	**-5.78E-07**	**-5.65E-07**	**-5.41E-07**	**-5.38E-07**	**-5.47E-07**	**-4.87E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	-4.40E-08	-4.90E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08
URI (ΔCDF)	-1.70E-07	-1.60E-07	-1.60E-07	-1.50E-07	-1.40E-07	-1.20E-07	-1.10E-07	-8.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.14E-07**	**-2.09E-07**	**-2.17E-07**	**-2.07E-07**	**-1.97E-07**	**-1.77E-07**	**-1.67E-07**	**-1.46E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	2.90E-08	5.80E-08	5.70E-08	5.70E-08	6.00E-08	6.20E-08	4.20E-08	4.50E-08
URI (ΔCDF)	1.90E-07	2.00E-07	1.70E-07	2.00E-07	2.00E-07	2.10E-07	2.10E-07	2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.19E-07**	**2.58E-07**	**2.27E-07**	**2.57E-07**	**2.60E-07**	**2.72E-07**	**2.52E-07**	**2.45E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09	-5.70E-10
URI (ΔCDF)	-3.30E-08	-3.00E-08	-2.80E-08	-2.50E-08	-2.30E-08	-2.00E-08	-1.80E-08	-1.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.40E-08**	**-3.10E-08**	**-2.90E-08**	**-2.60E-08**	**-2.40E-08**	**-2.10E-08**	**-1.90E-08**	**-1.86E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	-6.10E-09	-6.10E-09	-1.40E-08	-1.60E-08	-2.20E-08	-3.00E-08	-1.90E-08	-1.90E-08
URI (ΔCDF)	-2.60E-07	-2.60E-07	-2.60E-07	-2.60E-07	-2.60E-07	-2.60E-07	4.20E-07	4.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.66E-07**	**-2.66E-07**	**-2.74E-07**	**-2.76E-07**	**-2.82E-07**	**-2.90E-07**	**4.01E-07**	**4.01E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**
Maximum activity	0.006670	0.007270	0.007110	0.007140	0.007520	0.014800	0.015000	0.002520	0.002840	0.002990	0.003130	0.003180
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.7**	**0.7**	**0.7**	**0.7**	**0.8**	**1.5**	**1.5**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**
Reactor Coolant System Activity	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**
Maximum activity	0.003240	0.003440	0.003400	0.003560	0.003560	0.003610	0.003320	0.003400	0.003510	0.003570	0.003680	0.010500
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**1.1**

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	0.095	0.019	0.050	1.055	0.084	0.073	0.210	0.025	0.024	0.051	0.023	0.039
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.0**	**0.2**	**0.5**	**10.6**	**0.8**	**0.7**	**2.1**	**0.3**	**0.2**	**0.5**	**0.2**	**0.4**

Reactor Coolant System Leakage	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum leakage	0.015	0.024	0.018	0.096	0.012	0.035	0.033	0.024	0.014	0.018	0.020	0.061
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.2**	**0.2**	**0.2**	**1.0**	**0.1**	**0.4**	**0.3**	**0.2**	**0.1**	**0.2**	**0.2**	**0.6**

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	31.0	64.0	0	10.0	42.0	30.0	36.0	35.0
Total opportunities	32.0	70.0	0	12.0	45.0	31.0	40.0	37.0
Indicator value	**94.8%**	**94.7%**	**95.9%**	**94.7%**	**94.3%**	**92.8%**	**92.4%**	**92.9%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Participating Key personnel	138.0	143.0	133.0	130.0	139.0	145.0	140.0	141.0
Total Key personnel	147.0	154.0	146.0	145.0	145.0	149.0	147.0	147.0
Indicator value	**93.9%**	**92.9%**	**91.1%**	**89.7%**	**95.9%**	**97.3%**	**95.2%**	**95.9%**

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	304	450	310	312	314	453	308	316
Total sirens-tests	318	477	318	318	318	477	318	318
Indicator value	**95.9%**	**95.5%**	**95.7%**	**96.2%**	**96.9%**	**97.1%**	**96.9%**	**97.2%**

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

Millstone 2

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	0	0	0	0	0	3.0
Critical hours	2208.0	1177.1	2159.0	2184.0	2208.0	2209.0	2183.0	1039.0
Indicator value	**0.8**	**0.9**	**0**	**0**	**0**	**0**	**0**	**2.7**

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	1177.1	2159.0	2184.0	2208.0	2209.0	2183.0	1039.0
Indicator value	**0.8**	**0.9**	**0**	**0**	**0**	**0.8**	**0.8**	**0.9**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	-3.70E-08	-3.80E-08	-1.50E-08	-1.40E-09	1.60E-09	3.30E-09	6.30E-08	8.10E-08
URI (ΔCDF)	-5.40E-07	-5.40E-07	-5.50E-07	-5.40E-07	-5.40E-07	-5.50E-07	-5.50E-07	-5.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.77E-07**	**-5.78E-07**	**-5.65E-07**	**-5.41E-07**	**-5.38E-07**	**-5.47E-07**	**-4.87E-07**	**-4.89E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	-4.90E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08
URI (ΔCDF)	-1.60E-07	-1.60E-07	-1.50E-07	-1.40E-07	-1.20E-07	-1.10E-07	-8.90E-08	-1.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.09E-07**	**-2.17E-07**	**-2.07E-07**	**-1.97E-07**	**-1.77E-07**	**-1.67E-07**	**-1.46E-07**	**-1.57E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	5.80E-08	5.70E-08	5.70E-08	6.00E-08	6.20E-08	4.20E-08	4.50E-08	4.80E-08
URI (ΔCDF)	2.00E-07	1.70E-07	2.00E-07	2.00E-07	2.10E-07	2.10E-07	2.00E-07	2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.58E-07**	**2.27E-07**	**2.57E-07**	**2.60E-07**	**2.72E-07**	**2.52E-07**	**2.45E-07**	**3.28E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09	-5.70E-10	-5.20E-10
URI (ΔCDF)	-3.00E-08	-2.80E-08	-2.50E-08	-2.30E-08	-2.00E-08	-1.80E-08	-1.80E-08	-1.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-08**	**-2.90E-08**	**-2.60E-08**	**-2.40E-08**	**-2.10E-08**	**-1.90E-08**	**-1.86E-08**	**-1.95E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	-6.10E-09	-1.40E-08	-1.60E-08	-2.20E-08	-3.00E-08	-1.90E-08	-1.90E-08	-1.90E-08
URI (ΔCDF)	-2.60E-07	-2.60E-07	-2.60E-07	-2.60E-07	-2.60E-07	4.20E-07	4.20E-07	4.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.66E-07**	**-2.74E-07**	**-2.76E-07**	**-2.82E-07**	**-2.90E-07**	**4.01E-07**	**4.01E-07**	**4.01E-07**

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	0.007140	0.007520	0.014800	0.015000	0.002520	0.002840	0.002990	0.003130	0.003180	0.003240	0.003440	0.003400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.7**	**0.8**	**1.5**	**1.5**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**
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	0.003560	0.003560	0.003610	0.003320	0.003400	0.003510	0.003570	0.003680	0.010500	0.007390	0.001390	0.001550
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.4**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**1.1**	**0.7**	**0.1**	**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	1.055	0.084	0.073	0.210	0.025	0.024	0.051	0.023	0.039	0.015	0.024	0.018
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**10.6**	**0.8**	**0.7**	**2.1**	**0.3**	**0.2**	**0.5**	**0.2**	**0.4**	**0.2**	**0.2**	**0.2**
Reactor Coolant System Leakage	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**
Maximum leakage	0.096	0.012	0.035	0.033	0.024	0.014	0.018	0.020	0.061	0.004	0.180	0.145
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.0**	**0.1**	**0.4**	**0.3**	**0.2**	**0.1**	**0.2**	**0.2**	**0.6**	**0**	**1.8**	**1.5**

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	64.0	0	10.0	42.0	30.0	36.0	35.0	38.0
Total opportunities	70.0	0	12.0	45.0	31.0	40.0	37.0	41.0
Indicator value	**94.7%**	**95.9%**	**94.7%**	**94.3%**	**92.8%**	**92.4%**	**92.9%**	**92.4%**

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	143.0	133.0	130.0	139.0	145.0	140.0	141.0	144.0
Total Key personnel	154.0	146.0	145.0	145.0	149.0	147.0	147.0	146.0
Indicator value	**92.9%**	**91.1%**	**89.7%**	**95.9%**	**97.3%**	**95.2%**	**95.9%**	**98.6%**

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	450	310	312	314	453	308	316	304
Total sirens-tests	477	318	318	318	477	318	318	318
Indicator value	**95.5%**	**95.7%**	**96.2%**	**96.9%**	**97.1%**	**96.9%**	**97.2%**	**96.5%**

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.

Millstone 2

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	0	0	0	0	0	3.0	0
Critical hours	1177.1	2159.0	2184.0	2208.0	2209.0	2183.0	1039.0	2198.4
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0**	**2.7**	**2.8**

Licensee Comments: none

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	0
Critical hours	1177.1	2159.0	2184.0	2208.0	2209.0	2183.0	1039.0	2198.4
Indicator value	**0.9**	**0**	**0**	**0**	**0.8**	**0.8**	**0.9**	**0.9**

Licensee Comments: none

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**
UAI (ΔCDF)	-3.80E-08	-1.50E-08	-1.40E-09	1.60E-09	3.30E-09	6.30E-08	8.10E-08	1.20E-07
URI (ΔCDF)	-5.40E-07	-5.50E-07	-5.40E-07	-5.40E-07	-5.50E-07	-5.50E-07	-5.70E-07	-5.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.78E-07**	**-5.65E-07**	**-5.41E-07**	**-5.38E-07**	**-5.47E-07**	**-4.87E-07**	**-4.89E-07**	**-4.50E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**
UAI (ΔCDF)	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08
URI (ΔCDF)	-1.60E-07	-1.50E-07	-1.40E-07	-1.20E-07	-1.10E-07	-8.90E-08	-1.00E-07	-1.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.17E-07**	**-2.07E-07**	**-1.97E-07**	**-1.77E-07**	**-1.67E-07**	**-1.46E-07**	**-1.57E-07**	**-1.67E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	5.70E-08	5.70E-08	6.00E-08	6.20E-08	4.20E-08	4.50E-08	4.80E-08	4.40E-08
URI (ΔCDF)	1.70E-07	2.00E-07	2.00E-07	2.10E-07	2.10E-07	2.00E-07	2.80E-07	2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.27E-07**	**2.57E-07**	**2.60E-07**	**2.72E-07**	**2.52E-07**	**2.45E-07**	**3.28E-07**	**3.24E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**
UAI (ΔCDF)	-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09	-5.70E-10	-5.20E-10	-5.10E-10
URI (ΔCDF)	-2.80E-08	-2.50E-08	-2.30E-08	-2.00E-08	-1.80E-08	-1.80E-08	-1.90E-08	-1.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.90E-08**	**-2.60E-08**	**-2.40E-08**	**-2.10E-08**	**-1.90E-08**	**-1.86E-08**	**-1.95E-08**	**-1.95E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	-1.40E-08	-1.60E-08	-2.20E-08	-3.00E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08
URI (ΔCDF)	-2.60E-07	-2.60E-07	-2.60E-07	-2.60E-07	4.20E-07	4.20E-07	4.20E-07	4.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.74E-07**	**-2.76E-07**	**-2.82E-07**	**-2.90E-07**	**4.01E-07**	**4.01E-07**	**4.01E-07**	**4.01E-07**

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	0.015000	0.002520	0.002840	0.002990	0.003130	0.003180	0.003240	0.003440	0.003400	0.003560	0.003560	0.003610
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**1.5**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**
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	0.003320	0.003400	0.003510	0.003570	0.003680	0.010500	0.007390	0.001390	0.001550	0.001610	0.001690	0.001720
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**1.1**	**0.7**	**0.1**	**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	0.210	0.025	0.024	0.051	0.023	0.039	0.015	0.024	0.018	0.096	0.012	0.035
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**2.1**	**0.3**	**0.2**	**0.5**	**0.2**	**0.4**	**0.2**	**0.2**	**0.2**	**1.0**	**0.1**	**0.4**
Reactor Coolant System Leakage	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**
Maximum leakage	0.033	0.024	0.014	0.018	0.020	0.061	0.004	0.180	0.145	0.093	0.124	0.096
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.3**	**0.2**	**0.1**	**0.2**	**0.2**	**0.6**	**0**	**1.8**	**1.5**	**0.9**	**1.2**	**1.0**

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	0	10.0	42.0	30.0	36.0	35.0	38.0	57.0
Total opportunities	0	12.0	45.0	31.0	40.0	37.0	41.0	59.0
Indicator value	**95.9%**	**94.7%**	**94.3%**	**92.8%**	**92.4%**	**92.9%**	**92.4%**	**93.6%**

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	133.0	130.0	139.0	145.0	140.0	141.0	144.0	147.0
Total Key personnel	146.0	145.0	145.0	149.0	147.0	147.0	146.0	147.0
Indicator value	**91.1%**	**89.7%**	**95.9%**	**97.3%**	**95.2%**	**95.9%**	**98.6%**	**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	310	312	314	453	308	316	304	450
Total sirens-tests	318	318	318	477	318	318	318	477
Indicator value	**95.7%**	**96.2%**	**96.9%**	**97.1%**	**96.9%**	**97.2%**	**96.5%**	**96.3%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Millstone 2

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	0	0	0	0	0	3.0	0	0
Critical hours	2159.0	2184.0	2208.0	2209.0	2183.0	1039.0	2198.4	2209.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**2.7**	**2.8**	**2.8**

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	0	0
Critical hours	2159.0	2184.0	2208.0	2209.0	2183.0	1039.0	2198.4	2209.0
Indicator value	**0**	**0**	**0**	**0.8**	**0.8**	**0.9**	**0.9**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	-1.50E-08	-1.40E-09	1.60E-09	3.30E-09	6.30E-08	8.10E-08	1.20E-07	1.60E-07
URI (ΔCDF)	-5.50E-07	-5.40E-07	-5.40E-07	-5.50E-07	-5.50E-07	-5.70E-07	-5.70E-07	3.60E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.65E-07**	**-5.41E-07**	**-5.38E-07**	**-5.47E-07**	**-4.87E-07**	**-4.89E-07**	**-4.50E-07**	**5.20E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08
URI (ΔCDF)	-1.50E-07	-1.40E-07	-1.20E-07	-1.10E-07	-8.90E-08	-1.00E-07	-1.10E-07	-1.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.07E-07**	**-1.97E-07**	**-1.77E-07**	**-1.67E-07**	**-1.46E-07**	**-1.57E-07**	**-1.67E-07**	**-1.57E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	5.70E-08	6.00E-08	6.20E-08	4.20E-08	4.50E-08	4.80E-08	4.40E-08	5.70E-08
URI (ΔCDF)	2.00E-07	2.00E-07	2.10E-07	2.10E-07	2.00E-07	2.80E-07	2.80E-07	2.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.57E-07**	**2.60E-07**	**2.72E-07**	**2.52E-07**	**2.45E-07**	**3.28E-07**	**3.24E-07**	**3.27E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	-1.00E-09	-1.00E-09	-1.00E-09	-1.00E-09	-5.70E-10	-5.20E-10	-5.10E-10	-4.40E-10
URI (ΔCDF)	-2.50E-08	-2.30E-08	-2.00E-08	-1.80E-08	-1.80E-08	-1.90E-08	-1.90E-08	-1.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.60E-08**	**-2.40E-08**	**-2.10E-08**	**-1.90E-08**	**-1.86E-08**	**-1.95E-08**	**-1.95E-08**	**-1.94E-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/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**
UAI (ΔCDF)	-1.60E-08	-2.20E-08	-3.00E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08	-3.00E-08
URI (ΔCDF)	-2.60E-07	-2.60E-07	-2.60E-07	4.20E-07	4.20E-07	4.20E-07	4.20E-07	4.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.76E-07**	**-2.82E-07**	**-2.90E-07**	**4.01E-07**	**4.01E-07**	**4.01E-07**	**4.01E-07**	**3.90E-07**

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	0.002990	0.003130	0.003180	0.003240	0.003440	0.003400	0.003560	0.003560	0.003610	0.003320	0.003400	0.003510
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.3**	**0.3**	**0.4**
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	0.003570	0.003680	0.010500	0.007390	0.001390	0.001550	0.001610	0.001690	0.001720	0.001800	0.001870	0.001900
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**1.1**	**0.7**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**
Maximum leakage	0.051	0.023	0.039	0.015	0.024	0.018	0.096	0.012	0.035	0.033	0.024	0.014
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.5**	**0.2**	**0.4**	**0.2**	**0.2**	**0.2**	**1.0**	**0.1**	**0.4**	**0.3**	**0.2**	**0.1**
Reactor Coolant System Leakage	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**
Maximum leakage	0.018	0.020	0.061	0.004	0.180	0.145	0.093	0.124	0.096	0.067	0.092	0.069
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.2**	**0.2**	**0.6**	**0**	**1.8**	**1.5**	**0.9**	**1.2**	**1.0**	**0.7**	**0.9**	**0.7**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful opportunities	10.0	42.0	30.0	36.0	35.0	38.0	57.0	0
Total opportunities	12.0	45.0	31.0	40.0	37.0	41.0	59.0	0
Indicator value	**94.7%**	**94.3%**	**92.8%**	**92.4%**	**92.9%**	**92.4%**	**93.6%**	**93.6%**

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	130.0	139.0	145.0	140.0	141.0	144.0	147.0	145.0
Total Key personnel	145.0	145.0	149.0	147.0	147.0	146.0	147.0	145.0
Indicator value	**89.7%**	**95.9%**	**97.3%**	**95.2%**	**95.9%**	**98.6%**	**100.0%**	**100.0%**

Licensee Comments: none

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	312	314	453	308	316	304	450	304
Total sirens-tests	318	318	477	318	318	318	477	318
Indicator value	**96.2%**	**96.9%**	**97.1%**	**96.9%**	**97.2%**	**96.5%**	**96.3%**	**96.0%**

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

Millstone 2

1Q/2009 Performance Indicators

Licensee's General Comments: Updated the past unavailability (2nd qtr 2007-1st qtr 2008) based on error in a procedure resulting in additional unavailability. These changes did not result in crossing any threshold.

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	3.0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2183.0	1039.0	2198.4	2209.0	2159.0
Indicator value	**0**	**0**	**0**	**0**	**2.7**	**2.8**	**2.8**	**2.8**

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	0	0	0
Critical hours	2184.0	2208.0	2209.0	2183.0	1039.0	2198.4	2209.0	2159.0
Indicator value	**0**	**0**	**0.8**	**0.8**	**0.9**	**0.9**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	-1.40E-09	1.10E-08	5.50E-08	1.30E-07	1.50E-07	1.80E-07	2.20E-07	3.00E-07
URI (ΔCDF)	-5.40E-07	-5.40E-07	-5.50E-07	-5.50E-07	-5.70E-07	-5.70E-07	3.60E-07	3.60E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.41E-07**	**-5.29E-07**	**-4.95E-07**	**-4.20E-07**	**-4.20E-07**	**-3.90E-07**	**5.80E-07**	**6.60E-07**

Licensee Comments:

1Q/09: Updated the past unavailability (2nd qtr 2007-1st qtr 2008) based on error in a procedure resulting in additional unavailability. This issue was in the site's corrective action process. This did not result in crossing any threshold.

4Q/07: Changed baseline unavailability due to 1 overhaul being performed during 3 year period

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)	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08
URI (ΔCDF)	-1.40E-07	-1.20E-07	-1.10E-07	-8.90E-08	-1.00E-07	-1.10E-07	-1.00E-07	-1.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.97E-07**	**-1.77E-07**	**-1.67E-07**	**-1.46E-07**	**-1.57E-07**	**-1.67E-07**	**-1.57E-07**	**-1.57E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	6.00E-08	6.20E-08	4.20E-08	4.50E-08	4.80E-08	4.40E-08	5.70E-08	-3.50E-08
URI (ΔCDF)	2.00E-07	2.10E-07	2.10E-07	2.00E-07	2.80E-07	2.80E-07	2.70E-07	-2.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.60E-07**	**2.72E-07**	**2.52E-07**	**2.45E-07**	**3.28E-07**	**3.24E-07**	**3.27E-07**	**-2.75E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**
UAI (ΔCDF)	-1.00E-09	-1.00E-09	-1.00E-09	-5.70E-10	-5.20E-10	-5.10E-10	-4.40E-10	-4.20E-10
URI (ΔCDF)	-2.30E-08	-2.00E-08	-1.80E-08	-1.80E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.40E-08**	**-2.10E-08**	**-1.90E-08**	**-1.86E-08**	**-1.95E-08**	**-1.95E-08**	**-1.94E-08**	**-1.84E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	-2.20E-08	-3.00E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08	-3.00E-08	-3.00E-08
URI (ΔCDF)	-2.60E-07	-2.60E-07	4.20E-07	4.20E-07	4.20E-07	4.20E-07	4.20E-07	4.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.82E-07**	**-2.90E-07**	**4.01E-07**	**4.01E-07**	**4.01E-07**	**4.01E-07**	**3.90E-07**	**3.90E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**
Maximum activity	0.003240	0.003440	0.003400	0.003560	0.003560	0.003610	0.003320	0.003400	0.003510	0.003570	0.003680	0.010500
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**1.1**
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	0.007390	0.001390	0.001550	0.001610	0.001690	0.001720	0.001800	0.001870	0.001900	0.002040	0.002070	0.002360
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.7**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**
Maximum leakage	0.015	0.024	0.018	0.096	0.012	0.035	0.033	0.024	0.014	0.018	0.020	0.061
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.2**	**0.2**	**0.2**	**1.0**	**0.1**	**0.4**	**0.3**	**0.2**	**0.1**	**0.2**	**0.2**	**0.6**
Reactor Coolant System Leakage	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**
Maximum leakage	0.004	0.180	0.145	0.093	0.124	0.096	0.067	0.092	0.069	0.073	0.085	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0**	**1.8**	**1.5**	**0.9**	**1.2**	**1.0**	**0.7**	**0.9**	**0.7**	**0.7**	**0.9**	**0.8**

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	42.0	30.0	36.0	35.0	38.0	57.0	0	23.0
Total opportunities	45.0	31.0	40.0	37.0	41.0	59.0	0	26.0
Indicator value	**94.3%**	**92.8%**	**92.4%**	**92.9%**	**92.4%**	**93.6%**	**93.6%**	**93.5%**

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	139.0	145.0	140.0	141.0	144.0	147.0	145.0	142.0
Total Key personnel	145.0	149.0	147.0	147.0	146.0	147.0	145.0	143.0
Indicator value	**95.9%**	**97.3%**	**95.2%**	**95.9%**	**98.6%**	**100.0%**	**100.0%**	**99.3%**

Licensee Comments: none

Notes

Alert & Notification System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful siren-tests	314	453	308	316	304	450	304	316
Total sirens-tests	318	477	318	318	318	477	318	318
Indicator value	**96.9%**	**97.1%**	**96.9%**	**97.2%**	**96.5%**	**96.3%**	**96.0%**	**96.0%**

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

Millstone 2

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	3.0	0	0	0	0
Critical hours	2208.0	2209.0	2183.0	1039.0	2198.4	2209.0	2159.0	2184.0
Indicator value	**0**	**0**	**0**	**2.7**	**2.8**	**2.8**	**2.8**	**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	0	0	0	0
Critical hours	2208.0	2209.0	2183.0	1039.0	2198.4	2209.0	2159.0	2184.0
Indicator value	**0**	**0.8**	**0.8**	**0.9**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	1.10E-08	5.50E-08	1.30E-07	1.50E-07	1.80E-07	2.20E-07	2.90E-07	2.90E-07
URI (ΔCDF)	-5.40E-07	-5.50E-07	-5.50E-07	-5.70E-07	-5.70E-07	3.60E-07	3.60E-07	5.90E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.29E-07**	**-4.95E-07**	**-4.20E-07**	**-4.20E-07**	**-3.90E-07**	**5.80E-07**	**6.50E-07**	**2.96E-07**

Licensee Comments:

2Q/09: Changed PRA Parameter(s). Revised PRA values based on PRA model revision dated 3/26/09. PRA model was updated to capture available margin for diesel. Updated the 'A' baseline unavailability to remove the overhaul hours.

1Q/09: Updated the past unavailability (2nd qtr 2007-1st qtr 2008) based on error in a procedure resulting in additional unavailability. This issue was in the site's corrective action process. This did not result in crossing any threshold.

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)	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-2.70E-07
URI (ΔCDF)	-1.20E-07	-1.10E-07	-8.90E-08	-1.00E-07	-1.10E-07	-1.00E-07	-1.00E-07	-3.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.77E-07**	**-1.67E-07**	**-1.46E-07**	**-1.57E-07**	**-1.67E-07**	**-1.57E-07**	**-1.57E-07**	**-3.08E-07**

Licensee Comments:

2Q/09: Changed PRA Parameter(s). Revised PRA values based on PRA model revision dated 3/26/09. PRA model was updated to capture available margin for diesel.

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)	6.20E-08	4.20E-08	4.50E-08	4.80E-08	4.40E-08	5.70E-08	-3.50E-08	-2.40E-08
URI (ΔCDF)	2.10E-07	2.10E-07	2.00E-07	2.80E-07	2.80E-07	2.70E-07	-2.40E-07	-1.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.72E-07**	**2.52E-07**	**2.45E-07**	**3.28E-07**	**3.24E-07**	**3.27E-07**	**-2.75E-07**	**-1.54E-07**

Licensee Comments:

2Q/09: Changed PRA Parameter(s). Revised PRA values based on PRA model revision dated 3/26/09. PRA model was updated to capture available margin for diesel.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	-1.00E-09	-1.00E-09	-5.70E-10	-5.20E-10	-5.10E-10	-4.40E-10	-4.20E-10	-5.30E-10
URI (ΔCDF)	-2.00E-08	-1.80E-08	-1.80E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.80E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-08**	**-1.90E-08**	**-1.86E-08**	**-1.95E-08**	**-1.95E-08**	**-1.94E-08**	**-1.84E-08**	**-1.55E-08**

Licensee Comments:

2Q/09: Changed PRA Parameter(s). Revised PRA values based on PRA model revision dated 3/26/09. PRA model was updated to capture available margin for diesel.

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)	-3.00E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08	-3.00E-08	-3.00E-08	-2.00E-08
URI (ΔCDF)	-2.60E-07	4.20E-07	4.20E-07	4.20E-07	4.20E-07	4.20E-07	4.20E-07	2.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.90E-07**	**4.01E-07**	**4.01E-07**	**4.01E-07**	**4.01E-07**	**3.90E-07**	**3.90E-07**	**2.00E-07**

Licensee Comments:

2Q/09: Changed PRA Parameter(s). Revised PRA values based on PRA model revision dated 3/26/09. PRA model was updated to capture available margin for diesel. Revised operational estimates to reflect plant data.

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	0.003560	0.003560	0.003610	0.003320	0.003400	0.003510	0.003570	0.003680	0.010500	0.007390	0.001390	0.001550
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.4**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**1.1**	**0.7**	**0.1**	**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	0.001610	0.001690	0.001720	0.001800	0.001870	0.001900	0.002040	0.002070	0.002360	0.002300	0.002340	0.002490
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**
Maximum leakage	0.096	0.012	0.035	0.033	0.024	0.014	0.018	0.020	0.061	0.004	0.180	0.145
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.0**	**0.1**	**0.4**	**0.3**	**0.2**	**0.1**	**0.2**	**0.2**	**0.6**	**0**	**1.8**	**1.5**
Reactor Coolant System Leakage	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**
Maximum leakage	0.093	0.124	0.096	0.067	0.092	0.069	0.073	0.085	0.080	0.067	0.117	0.069
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.9**	**1.2**	**1.0**	**0.7**	**0.9**	**0.7**	**0.7**	**0.9**	**0.8**	**0.7**	**1.2**	**0.7**

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	30.0	36.0	35.0	38.0	57.0	0	23.0	48.0
Total opportunities	31.0	40.0	37.0	41.0	59.0	0	26.0	49.0
Indicator value	**92.8%**	**92.4%**	**92.9%**	**92.4%**	**93.6%**	**93.6%**	**93.5%**	**94.3%**

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	145.0	140.0	141.0	144.0	147.0	145.0	142.0	140.0
Total Key personnel	149.0	147.0	147.0	146.0	147.0	145.0	143.0	143.0
Indicator value	**97.3%**	**95.2%**	**95.9%**	**98.6%**	**100.0%**	**100.0%**	**99.3%**	**97.9%**

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	453	308	316	304	450	304	316	310
Total sirens-tests	477	318	318	318	477	318	318	318
Indicator value	**97.1%**	**96.9%**	**97.2%**	**96.5%**	**96.3%**	**96.0%**	**96.0%**	**96.4%**

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

Millstone 2

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	3.0	0	0	0	0	1.0
Critical hours	2209.0	2183.0	1039.0	2198.4	2209.0	2159.0	2184.0	1684.2
Indicator value	**0**	**0**	**2.7**	**2.8**	**2.8**	**2.8**	**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/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2209.0	2183.0	1039.0	2198.4	2209.0	2159.0	2184.0	1684.2
Indicator value	**0.8**	**0.8**	**0.9**	**0.9**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	5.50E-08	1.30E-07	1.50E-07	1.80E-07	2.20E-07	2.90E-07	2.90E-07	3.00E-07
URI (ΔCDF)	-5.50E-07	-5.50E-07	-5.70E-07	-5.70E-07	3.60E-07	3.60E-07	5.90E-09	4.30E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.95E-07**	**-4.20E-07**	**-4.20E-07**	**-3.90E-07**	**5.80E-07**	**6.50E-07**	**2.96E-07**	**3.04E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**
UAI (ΔCDF)	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-2.70E-07	-2.70E-07
URI (ΔCDF)	-1.10E-07	-8.90E-08	-1.00E-07	-1.10E-07	-1.00E-07	-1.00E-07	-3.80E-08	-3.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.67E-07**	**-1.46E-07**	**-1.57E-07**	**-1.67E-07**	**-1.57E-07**	**-1.57E-07**	**-3.08E-07**	**-3.09E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	4.20E-08	4.50E-08	4.80E-08	4.40E-08	5.70E-08	-3.50E-08	-2.40E-08	-2.20E-08
URI (ΔCDF)	2.10E-07	2.00E-07	2.80E-07	2.80E-07	2.70E-07	-2.40E-07	-1.30E-07	-1.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.52E-07**	**2.45E-07**	**3.28E-07**	**3.24E-07**	**3.27E-07**	**-2.75E-07**	**-1.54E-07**	**-1.62E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**
UAI (ΔCDF)	-1.00E-09	-5.70E-10	-5.20E-10	-5.10E-10	-4.40E-10	-4.20E-10	-5.30E-10	-6.60E-10
URI (ΔCDF)	-1.80E-08	-1.80E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.80E-08	-1.50E-08	-1.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-08**	**-1.86E-08**	**-1.95E-08**	**-1.95E-08**	**-1.94E-08**	**-1.84E-08**	**-1.55E-08**	**-1.67E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08	-3.00E-08	-3.00E-08	-2.00E-08	-1.90E-08
URI (ΔCDF)	4.20E-07	4.20E-07	4.20E-07	4.20E-07	4.20E-07	4.20E-07	2.20E-07	2.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.01E-07**	**4.01E-07**	**4.01E-07**	**4.01E-07**	**3.90E-07**	**3.90E-07**	**2.00E-07**	**1.91E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**
Maximum activity	0.003320	0.003400	0.003510	0.003570	0.003680	0.010500	0.007390	0.001390	0.001550	0.001610	0.001690	0.001720
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**1.1**	**0.7**	**0.1**	**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	0.001800	0.001870	0.001900	0.002040	0.002070	0.002360	0.002300	0.002340	0.002490	0.002530	0.002720	0.002860
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**
Maximum leakage	0.033	0.024	0.014	0.018	0.020	0.061	0.004	0.180	0.145	0.093	0.124	0.096
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.3**	**0.2**	**0.1**	**0.2**	**0.2**	**0.6**	**0**	**1.8**	**1.5**	**0.9**	**1.2**	**1.0**
Reactor Coolant System Leakage	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**
Maximum leakage	0.067	0.092	0.069	0.073	0.085	0.080	0.067	0.117	0.069	0.091	0.098	0.086
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.7**	**0.9**	**0.7**	**0.7**	**0.9**	**0.8**	**0.7**	**1.2**	**0.7**	**0.9**	**1.0**	**0.9**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful opportunities	36.0	35.0	38.0	57.0	0	23.0	48.0	50.0
Total opportunities	40.0	37.0	41.0	59.0	0	26.0	49.0	51.0
Indicator value	**92.4%**	**92.9%**	**92.4%**	**93.6%**	**93.6%**	**93.5%**	**94.3%**	**94.7%**

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	140.0	141.0	144.0	147.0	145.0	142.0	140.0	136.0
Total Key personnel	147.0	147.0	146.0	147.0	145.0	143.0	143.0	147.0
Indicator value	**95.2%**	**95.9%**	**98.6%**	**100.0%**	**100.0%**	**99.3%**	**97.9%**	**92.5%**

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	308	316	304	450	304	316	310	459
Total sirens-tests	318	318	318	477	318	318	318	477
Indicator value	**96.9%**	**97.2%**	**96.5%**	**96.3%**	**96.0%**	**96.0%**	**96.4%**	**97.1%**

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

Millstone 2

4Q/2009 Performance Indicators

Licensee's General Comments: The Emergency Response Organization Drill Participation indicator data for September was revised due to a personal qualification error. The change did not result in the indicator crossing a threshold.

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	3.0	0	0	0	0	1.0	0
Critical hours	2183.0	1039.0	2198.4	2209.0	2159.0	2184.0	1684.2	1197.5
Indicator value	**0**	**2.7**	**2.8**	**2.8**	**2.8**	**0**	**0.8**	**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/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2183.0	1039.0	2198.4	2209.0	2159.0	2184.0	1684.2	1197.5
Indicator value	**0.8**	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**1.0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	1.30E-07	1.50E-07	1.80E-07	2.20E-07	2.90E-07	2.90E-07	3.00E-07	2.90E-07
URI (ΔCDF)	-5.50E-07	-5.70E-07	-5.70E-07	3.60E-07	3.60E-07	5.90E-09	4.30E-09	8.30E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.20E-07**	**-4.20E-07**	**-3.90E-07**	**5.80E-07**	**6.50E-07**	**2.96E-07**	**3.04E-07**	**2.98E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-2.70E-07	-2.70E-07	-2.70E-07
URI (ΔCDF)	-8.90E-08	-1.00E-07	-1.10E-07	-1.00E-07	-1.00E-07	-3.80E-08	-3.90E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.46E-07**	**-1.57E-07**	**-1.67E-07**	**-1.57E-07**	**-1.57E-07**	**-3.08E-07**	**-3.09E-07**	**-3.10E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	4.50E-08	4.80E-08	4.40E-08	5.70E-08	-3.50E-08	-2.40E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	2.00E-07	2.80E-07	2.80E-07	2.70E-07	-2.40E-07	-1.30E-07	-1.40E-07	-1.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.45E-07**	**3.28E-07**	**3.24E-07**	**3.27E-07**	**-2.75E-07**	**-1.54E-07**	**-1.62E-07**	**-1.62E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	-5.70E-10	-5.20E-10	-5.10E-10	-4.40E-10	-4.20E-10	-5.30E-10	-6.60E-10	-2.20E-10
URI (ΔCDF)	-1.80E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.80E-08	-1.50E-08	-1.60E-08	-1.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.86E-08**	**-1.95E-08**	**-1.95E-08**	**-1.94E-08**	**-1.84E-08**	**-1.55E-08**	**-1.67E-08**	**-1.62E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	-1.90E-08	-1.90E-08	-1.90E-08	-3.00E-08	-3.00E-08	-2.00E-08	-1.90E-08	-1.90E-08
URI (ΔCDF)	4.20E-07	4.20E-07	4.20E-07	4.20E-07	4.20E-07	2.20E-07	2.10E-07	2.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.01E-07**	**4.01E-07**	**4.01E-07**	**3.90E-07**	**3.90E-07**	**2.00E-07**	**1.91E-07**	**1.91E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**
Maximum activity	0.003570	0.003680	0.010500	0.007390	0.001390	0.001550	0.001610	0.001690	0.001720	0.001800	0.001870	0.001900
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**1.1**	**0.7**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
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	0.002040	0.002070	0.002360	0.002300	0.002340	0.002490	0.002530	0.002720	0.002860	0.003270	0.001110	0.001170
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.3**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum leakage	0.018	0.020	0.061	0.004	0.180	0.145	0.093	0.124	0.096	0.067	0.092	0.069
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.2**	**0.2**	**0.6**	**0**	**1.8**	**1.5**	**0.9**	**1.2**	**1.0**	**0.7**	**0.9**	**0.7**
Reactor Coolant System Leakage	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**
Maximum leakage	0.073	0.085	0.080	0.067	0.117	0.069	0.091	0.098	0.086	0.085	0.647	0.032
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.7**	**0.9**	**0.8**	**0.7**	**1.2**	**0.7**	**0.9**	**1.0**	**0.9**	**0.9**	**6.5**	**0.3**

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	35.0	38.0	57.0	0	23.0	48.0	50.0	36.0
Total opportunities	37.0	41.0	59.0	0	26.0	49.0	51.0	37.0
Indicator value	**92.9%**	**92.4%**	**93.6%**	**93.6%**	**93.5%**	**94.3%**	**94.7%**	**95.7%**

Licensee Comments: none

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	141.0	144.0	147.0	145.0	142.0	140.0	136.0	145.0
Total Key personnel	147.0	146.0	147.0	145.0	143.0	143.0	146.0	145.0
Indicator value	**95.9%**	**98.6%**	**100.0%**	**100.0%**	**99.3%**	**97.9%**	**93.2%**	**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	316	304	450	304	316	310	459	314
Total sirens-tests	318	318	477	318	318	318	477	318
Indicator value	**97.2%**	**96.5%**	**96.3%**	**96.0%**	**96.0%**	**96.4%**	**97.1%**	**97.8%**

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

Millstone 2

1Q/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	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned scrams	3.0	0	0	0	0	1.0	0	1.0
Critical hours	1039.0	2198.4	2209.0	2159.0	2184.0	1684.2	1197.5	2110.8
Indicator value	**2.7**	**2.8**	**2.8**	**2.8**	**0**	**0.8**	**1.0**	**2.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	1039.0	2198.4	2209.0	2159.0	2184.0	1684.2	1197.5	2110.8
Indicator value	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**1.0**	**1.0**

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments:

1Q/10: LER-2009-005

4Q/09: LER-2009-003

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**
UAI (ΔCDF)	1.47E-07	1.82E-07	2.18E-07	2.94E-07	2.90E-07	2.99E-07	2.90E-07	1.56E-07
URI (ΔCDF)	-5.69E-07	-5.70E-07	-7.48E-08	-7.36E-08	5.87E-09	4.25E-09	8.33E-09	1.19E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.20E-07**	**-3.90E-07**	**1.40E-07**	**2.20E-07**	**3.00E-07**	**3.00E-07**	**3.00E-07**	**1.70E-07**

Licensee Comments:

1Q/10: Changed PRA Parameter(s). Baseline Unavailability was updated during the 1st qtr for the 'A' diesel due to a scheduled overhaul.

2Q/09: Revised PRA values based on PRA model revision dated 3/26/09. PRA model was updated to capture available margin for diesel. Updated the 'A' baseline unavailability to remove the overhaul hours.

1Q/09: Risk Cap Invoked. Updated the past unavailability (2nd qtr 2007-1st qtr 2008) based on error in a procedure resulting in additional unavailability. This issue was in the site's corrective action process. This did not result in crossing any threshold.

4Q/08: Risk Cap Invoked.

4Q/07: Changed baseline unavailability due to 1 overhaul being performed during 3 year period

1Q/07: Revised baseline unavailability to account for overhauls being performed in the first and second quarter 2007.

4Q/06: During an NRC Inspection for MSPI there were some inconsistencies identified between the station internal databases and CDE. As a result, the data was reviewed and CDE was corrected where. The corrections did not result in a threshold exceedance.

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)	-5.71E-08	-5.71E-08	-5.71E-08	-5.71E-08	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07
URI (ΔCDF)	-1.05E-07	-1.05E-07	-1.04E-07	-1.05E-07	-3.84E-08	-3.87E-08	-4.01E-08	-3.93E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**

Licensee Comments:

2Q/09: Revised PRA values based on PRA model revision dated 3/26/09. PRA model was updated to capture available margin for diesel.

4Q/06: Changed PRA Parameter(s). During an NRC Inspection for MSPI there were some inconsistencies identified between the station internal databases and CDE. As a result, the data was reviewed and CDE was corrected where. The corrections did not result in a threshold exceedance.

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)	4.79E-08	4.42E-08	5.65E-08	-3.47E-08	-2.41E-08	-2.22E-08	-2.23E-08	-2.12E-08
URI (ΔCDF)	2.51E-07	2.52E-07	2.48E-07	-2.41E-07	-1.33E-07	-1.40E-07	-1.42E-07	-1.44E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.00E-07**	**3.00E-07**	**3.00E-07**	**-2.80E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.70E-07**

Licensee Comments:

2Q/09: Revised PRA values based on PRA model revision dated 3/26/09. PRA model was updated to capture available margin for diesel.

4Q/08: Risk Cap Invoked.

3Q/08: Risk Cap Invoked.

2Q/08: Risk Cap Invoked.

4Q/06: During an NRC Inspection for MSPI there were some inconsistencies identified between the station internal databases and CDE. As a result, the data was reviewed and CDE was corrected where. The corrections did not result in a threshold exceedance.

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)	-5.24E-10	-5.15E-10	-4.42E-10	-4.22E-10	-5.28E-10	-6.64E-10	-2.18E-10	-1.56E-10
URI (ΔCDF)	-1.87E-08	-1.87E-08	-1.87E-08	-1.84E-08	-1.50E-08	-1.58E-08	-1.55E-08	-1.53E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-08**	**-1.90E-08**	**-1.90E-08**	**-1.90E-08**	**-1.60E-08**	**-1.60E-08**	**-1.60E-08**	**-1.50E-08**

Licensee Comments:

2Q/09: Revised PRA values based on PRA model revision dated 3/26/09. PRA model was updated to capture available margin for diesel.

1Q/07: Removed 2-RB-13.1A/B as monitored component due to low Birnbaum.

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)	-1.90E-08	-1.90E-08	-3.00E-08	-3.00E-08	-1.97E-08	-1.91E-08	-1.91E-08	-2.76E-08
URI (ΔCDF)	2.37E-07	2.37E-07	2.37E-07	2.37E-07	2.18E-07	2.14E-07	2.10E-07	2.06E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.20E-07**	**2.20E-07**	**2.10E-07**	**2.10E-07**	**2.00E-07**	**1.90E-07**	**1.90E-07**	**1.80E-07**

Licensee Comments:

2Q/09: Revised PRA values based on PRA model revision dated 3/26/09. PRA model was updated to capture available margin for diesel. Revised operational estimates to reflect plant data.

1Q/09: Risk Cap Invoked.

4Q/08: Risk Cap Invoked.

3Q/08: Risk Cap Invoked.

2Q/08: Risk Cap Invoked.

1Q/08: Risk Cap Invoked.

4Q/07: Risk Cap Invoked.

4Q/06: Changed PRA Parameter(s). During an NRC Inspection for MSPI there were some inconsistencies identified between the station internal databases and CDE. As a result, the data was reviewed and CDE was corrected where. The corrections did not result in a threshold exceedance.

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	0.007390	0.001390	0.001550	0.001610	0.001690	0.001720	0.001800	0.001870	0.001900	0.002040	0.002070	0.002360
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.7**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
Reactor Coolant System Activity	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**
Maximum activity	0.002300	0.002340	0.002490	0.002530	0.002720	0.002860	0.003270	0.001110	0.001170	0.001260	0.001300	0.001470
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.3**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**
Maximum leakage	0.004	0.180	0.145	0.093	0.124	0.096	0.067	0.092	0.069	0.073	0.085	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0**	**1.8**	**1.5**	**0.9**	**1.2**	**1.0**	**0.7**	**0.9**	**0.7**	**0.7**	**0.9**	**0.8**
Reactor Coolant System Leakage	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**
Maximum leakage	0.067	0.117	0.069	0.091	0.098	0.086	0.085	0.647	0.032	0.027	0.162	0.172
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.7**	**1.2**	**0.7**	**0.9**	**1.0**	**0.9**	**0.9**	**6.5**	**0.3**	**0.3**	**1.6**	**1.7**

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	38.0	57.0	0	23.0	48.0	50.0	36.0	47.0
Total opportunities	41.0	59.0	0	26.0	49.0	51.0	37.0	49.0
Indicator value	**92.4%**	**93.6%**	**93.6%**	**93.5%**	**94.3%**	**94.7%**	**95.7%**	**95.8%**

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	144.0	147.0	145.0	142.0	140.0	136.0	145.0	139.0
Total Key personnel	146.0	147.0	145.0	143.0	143.0	146.0	145.0	139.0
Indicator value	**98.6%**	**100.0%**	**100.0%**	**99.3%**	**97.9%**	**93.2%**	**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	304	450	304	316	310	459	314	312
Total sirens-tests	318	477	318	318	318	477	318	318
Indicator value	**96.5%**	**96.3%**	**96.0%**	**96.0%**	**96.4%**	**97.1%**	**97.8%**	**97.5%**

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

Millstone 2

2Q/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	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned scrams	0	0	0	0	1.0	0	1.0	1.0
Critical hours	2198.4	2209.0	2159.0	2184.0	1684.2	1197.5	2110.8	2139.0
Indicator value	**2.8**	**2.8**	**2.8**	**0**	**0.8**	**1.0**	**2.0**	**2.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2198.4	2209.0	2159.0	2184.0	1684.2	1197.5	2110.8	2139.0
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**1.0**	**1.0**	**1.0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	1.82E-07	2.18E-07	2.94E-07	2.90E-07	2.99E-07	2.90E-07	1.56E-07	1.75E-07
URI (ΔCDF)	-5.70E-07	-7.48E-08	-7.36E-08	5.87E-09	4.25E-09	8.33E-09	1.19E-08	9.15E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.90E-07**	**1.40E-07**	**2.20E-07**	**3.00E-07**	**3.00E-07**	**3.00E-07**	**1.70E-07**	**1.80E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**
UAI (ΔCDF)	-5.71E-08	-5.71E-08	-5.71E-08	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07
URI (ΔCDF)	-1.05E-07	-1.04E-07	-1.05E-07	-3.84E-08	-3.87E-08	-4.01E-08	-3.93E-08	-3.95E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	4.42E-08	5.65E-08	-3.47E-08	-2.41E-08	-2.22E-08	-2.23E-08	-2.12E-08	-2.23E-08
URI (ΔCDF)	2.52E-07	2.48E-07	-2.41E-07	-1.33E-07	-1.40E-07	-1.42E-07	-1.44E-07	-1.45E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.00E-07**	**3.00E-07**	**-2.80E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.70E-07**	**-1.70E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	-5.15E-10	-4.42E-10	-4.22E-10	-5.28E-10	-6.64E-10	-2.18E-10	-1.56E-10	-1.78E-10
URI (ΔCDF)	-1.87E-08	-1.87E-08	-1.84E-08	-1.50E-08	-1.58E-08	-1.55E-08	-1.53E-08	-1.53E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-08**	**-1.90E-08**	**-1.90E-08**	**-1.60E-08**	**-1.60E-08**	**-1.60E-08**	**-1.50E-08**	**-1.50E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	-1.90E-08	-3.00E-08	-3.00E-08	-1.97E-08	-1.91E-08	-1.91E-08	-2.76E-08	-2.75E-08
URI (ΔCDF)	2.37E-07	2.37E-07	2.37E-07	2.18E-07	2.14E-07	2.10E-07	2.06E-07	2.02E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.20E-07**	**2.10E-07**	**2.10E-07**	**2.00E-07**	**1.90E-07**	**1.90E-07**	**1.80E-07**	**1.70E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**
Maximum activity	0.001610	0.001690	0.001720	0.001800	0.001870	0.001900	0.002040	0.002070	0.002360	0.002300	0.002340	0.002490
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
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	0.002530	0.002720	0.002860	0.003270	0.001110	0.001170	0.001260	0.001300	0.001470	0.001880	0.001470	0.001520
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.3**	**0.3**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.2**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**
Maximum leakage	0.093	0.124	0.096	0.067	0.092	0.069	0.073	0.085	0.080	0.067	0.117	0.069
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.9**	**1.2**	**1.0**	**0.7**	**0.9**	**0.7**	**0.7**	**0.9**	**0.8**	**0.7**	**1.2**	**0.7**
Reactor Coolant System Leakage	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**
Maximum leakage	0.091	0.098	0.086	0.085	0.647	0.032	0.027	0.162	0.172	0.041	0.016	0.051
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.9**	**1.0**	**0.9**	**0.9**	**6.5**	**0.3**	**0.3**	**1.6**	**1.7**	**0.4**	**0.2**	**0.5**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful opportunities	57.0	0	23.0	48.0	50.0	36.0	47.0	35.0
Total opportunities	59.0	0	26.0	49.0	51.0	37.0	49.0	37.0
Indicator value	**93.6%**	**93.6%**	**93.5%**	**94.3%**	**94.7%**	**95.7%**	**95.8%**	**96.1%**

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	147.0	145.0	142.0	140.0	136.0	145.0	139.0	141.0
Total Key personnel	147.0	145.0	143.0	143.0	146.0	145.0	139.0	141.0
Indicator value	**100.0%**	**100.0%**	**99.3%**	**97.9%**	**93.2%**	**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	450	304	316	310	459	314	312	312
Total sirens-tests	477	318	318	318	477	318	318	318
Indicator value	**96.3%**	**96.0%**	**96.0%**	**96.4%**	**97.1%**	**97.8%**	**97.5%**	**97.6%**

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

Millstone 2

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	1.0	0	1.0	1.0	0
Critical hours	2209.0	2159.0	2184.0	1684.2	1197.5	2110.8	2139.0	2208.0
Indicator value	**2.8**	**2.8**	**0**	**0.8**	**1.0**	**2.0**	**2.9**	**1.8**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2209.0	2159.0	2184.0	1684.2	1197.5	2110.8	2139.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**1.0**	**1.0**	**1.0**	**0.9**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	2.18E-07	2.94E-07	2.90E-07	2.99E-07	2.90E-07	1.56E-07	1.75E-07	2.25E-07
URI (ΔCDF)	-7.48E-08	-7.36E-08	5.87E-09	4.25E-09	8.33E-09	1.19E-08	9.15E-09	4.61E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.40E-07**	**2.20E-07**	**3.00E-07**	**3.00E-07**	**3.00E-07**	**1.70E-07**	**1.80E-07**	**2.30E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**
UAI (ΔCDF)	-5.71E-08	-5.71E-08	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07
URI (ΔCDF)	-1.04E-07	-1.05E-07	-3.84E-08	-3.87E-08	-4.01E-08	-3.93E-08	-3.95E-08	-3.95E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-07**	**-1.60E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	5.65E-08	-3.47E-08	-2.41E-08	-2.22E-08	-2.23E-08	-2.12E-08	-2.23E-08	-4.49E-08
URI (ΔCDF)	2.48E-07	-2.41E-07	-1.33E-07	-1.40E-07	-1.42E-07	-1.44E-07	-1.45E-07	-1.46E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.00E-07**	**-2.80E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.70E-07**	**-1.70E-07**	**-1.90E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**
UAI (ΔCDF)	-4.42E-10	-4.22E-10	-5.28E-10	-6.64E-10	-2.18E-10	-1.56E-10	-1.78E-10	-4.57E-10
URI (ΔCDF)	-1.87E-08	-1.84E-08	-1.50E-08	-1.58E-08	-1.55E-08	-1.53E-08	-1.53E-08	-1.53E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-08**	**-1.90E-08**	**-1.60E-08**	**-1.60E-08**	**-1.60E-08**	**-1.50E-08**	**-1.50E-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	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**
UAI (ΔCDF)	-3.00E-08	-3.00E-08	-1.97E-08	-1.91E-08	-1.91E-08	-2.76E-08	-2.75E-08	-2.75E-08
URI (ΔCDF)	2.37E-07	2.37E-07	2.18E-07	2.14E-07	2.10E-07	2.06E-07	2.02E-07	1.99E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.10E-07**	**2.10E-07**	**2.00E-07**	**1.90E-07**	**1.90E-07**	**1.80E-07**	**1.70E-07**	**1.70E-07**

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	0.001800	0.001870	0.001900	0.002040	0.002070	0.002360	0.002300	0.002340	0.002490	0.002530	0.002720	0.002860
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**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	0.003270	0.001110	0.001170	0.001260	0.001300	0.001470	0.001880	0.001470	0.001520	0.001580	0.001630	0.001710
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**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	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**
Maximum leakage	0.067	0.092	0.069	0.073	0.085	0.080	0.067	0.117	0.069	0.091	0.098	0.086
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.7**	**0.9**	**0.7**	**0.7**	**0.9**	**0.8**	**0.7**	**1.2**	**0.7**	**0.9**	**1.0**	**0.9**
Reactor Coolant System Leakage	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**
Maximum leakage	0.085	0.647	0.032	0.027	0.162	0.172	0.041	0.016	0.051	0.047	0.006	0.027
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.9**	**6.5**	**0.3**	**0.3**	**1.6**	**1.7**	**0.4**	**0.2**	**0.5**	**0.5**	**0.1**	**0.3**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful opportunities	0	23.0	48.0	50.0	36.0	47.0	35.0	24.0
Total opportunities	0	26.0	49.0	51.0	37.0	49.0	37.0	25.0
Indicator value	**93.6%**	**93.5%**	**94.3%**	**94.7%**	**95.7%**	**95.8%**	**96.1%**	**96.0%**

Licensee Comments: none

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	145.0	142.0	140.0	136.0	145.0	139.0	141.0	138.0
Total Key personnel	145.0	143.0	143.0	146.0	145.0	139.0	141.0	138.0
Indicator value	**100.0%**	**99.3%**	**97.9%**	**93.2%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful siren-tests	304	316	310	459	314	312	312	473
Total sirens-tests	318	318	318	477	318	318	318	474
Indicator value	**96.0%**	**96.0%**	**96.4%**	**97.1%**	**97.8%**	**97.5%**	**97.6%**	**98.8%**

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

Millstone 2

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	1.0	0	1.0	1.0	0	1.0
Critical hours	2159.0	2184.0	1684.2	1197.5	2110.8	2139.0	2208.0	2134.5
Indicator value	**2.8**	**0**	**0.8**	**1.0**	**2.0**	**2.9**	**1.8**	**2.4**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned power changes	0	0	0	1.0	0	0	0	1.0
Critical hours	2159.0	2184.0	1684.2	1197.5	2110.8	2139.0	2208.0	2134.5
Indicator value	**0**	**0**	**0**	**1.0**	**1.0**	**1.0**	**0.9**	**0.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	2.94E-07	2.90E-07	2.99E-07	2.90E-07	1.56E-07	1.75E-07	2.25E-07	1.58E-07
URI (ΔCDF)	-7.36E-08	5.87E-09	4.25E-09	8.33E-09	1.19E-08	9.15E-09	4.61E-09	3.00E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.20E-07**	**3.00E-07**	**3.00E-07**	**3.00E-07**	**1.70E-07**	**1.80E-07**	**2.30E-07**	**1.60E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	-5.71E-08	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07
URI (ΔCDF)	-1.05E-07	-3.84E-08	-3.87E-08	-4.01E-08	-3.93E-08	-3.95E-08	-3.95E-08	1.17E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-1.60E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (ΔCDF)	-3.47E-08	-2.41E-08	-2.22E-08	-2.23E-08	-2.12E-08	-2.23E-08	-4.49E-08	-4.30E-08
URI (ΔCDF)	-2.41E-07	-1.33E-07	-1.40E-07	-1.42E-07	-1.44E-07	-1.45E-07	-1.46E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.80E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.70E-07**	**-1.70E-07**	**-1.90E-07**	**-1.90E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	-4.22E-10	-5.28E-10	-6.64E-10	-2.18E-10	-1.56E-10	-1.78E-10	-4.57E-10	-4.58E-10
URI (ΔCDF)	-1.84E-08	-1.50E-08	-1.58E-08	-1.55E-08	-1.53E-08	-1.53E-08	-1.53E-08	-1.53E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-08**	**-1.60E-08**	**-1.60E-08**	**-1.60E-08**	**-1.50E-08**	**-1.50E-08**	**-1.60E-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/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (ΔCDF)	-3.00E-08	-1.97E-08	-1.91E-08	-1.91E-08	-2.76E-08	-2.75E-08	-2.75E-08	-3.61E-08
URI (ΔCDF)	2.37E-07	2.18E-07	2.14E-07	2.10E-07	2.06E-07	2.02E-07	1.99E-07	-1.98E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.10E-07**	**2.00E-07**	**1.90E-07**	**1.90E-07**	**1.80E-07**	**1.70E-07**	**1.70E-07**	**-2.30E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**
Maximum activity	0.002040	0.002070	0.002360	0.002300	0.002340	0.002490	0.002530	0.002720	0.002860	0.003270	0.001110	0.001170
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.3**	**0.1**	**0.1**
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	0.001260	0.001300	0.001470	0.001880	0.001470	0.001520	0.001580	0.001630	0.001710	0.001730	0.002030	0.001930
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum leakage	0.073	0.085	0.080	0.067	0.117	0.069	0.091	0.098	0.086	0.085	0.647	0.032
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.7**	**0.9**	**0.8**	**0.7**	**1.2**	**0.7**	**0.9**	**1.0**	**0.9**	**0.9**	**6.5**	**0.3**
Reactor Coolant System Leakage	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**
Maximum leakage	0.027	0.162	0.172	0.041	0.016	0.051	0.047	0.006	0.027	0.018	0.056	0.009
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.3**	**1.6**	**1.7**	**0.4**	**0.2**	**0.5**	**0.5**	**0.1**	**0.3**	**0.2**	**0.6**	**0.1**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful opportunities	23.0	48.0	50.0	36.0	47.0	35.0	24.0	41.0
Total opportunities	26.0	49.0	51.0	37.0	49.0	37.0	25.0	43.0
Indicator value	**93.5%**	**94.3%**	**94.7%**	**95.7%**	**95.8%**	**96.1%**	**96.0%**	**95.9%**

Licensee Comments: none

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	142.0	140.0	136.0	145.0	139.0	141.0	138.0	138.0
Total Key personnel	143.0	143.0	146.0	145.0	139.0	141.0	138.0	138.0
Indicator value	**99.3%**	**97.9%**	**93.2%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful siren-tests	316	310	459	314	312	312	473	553
Total sirens-tests	318	318	477	318	318	318	474	553
Indicator value	**96.0%**	**96.4%**	**97.1%**	**97.8%**	**97.5%**	**97.6%**	**98.8%**	**99.2%**

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

Millstone 2

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	1.0	0	1.0	1.0	0	1.0	0
Critical hours	2184.0	1684.2	1197.5	2110.8	2139.0	2208.0	2134.5	2159.0
Indicator value	**0**	**0.8**	**1.0**	**2.0**	**2.9**	**1.8**	**2.4**	**1.6**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned power changes	0	0	1.0	0	0	0	1.0	0
Critical hours	2184.0	1684.2	1197.5	2110.8	2139.0	2208.0	2134.5	2159.0
Indicator value	**0**	**0**	**1.0**	**1.0**	**1.0**	**0.9**	**0.8**	**0.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Scrams with complications	0	0	0	1.0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**1.0**	**1.0**	**1.0**	**1.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	2.90E-07	2.99E-07	2.90E-07	1.56E-07	1.75E-07	2.25E-07	1.58E-07	1.31E-07
URI (ΔCDF)	5.87E-09	4.25E-09	8.33E-09	1.19E-08	9.15E-09	4.61E-09	3.00E-09	4.77E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.00E-07**	**3.00E-07**	**3.00E-07**	**1.70E-07**	**1.80E-07**	**2.30E-07**	**1.60E-07**	**1.30E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**
UAI (ΔCDF)	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07
URI (ΔCDF)	-3.84E-08	-3.87E-08	-4.01E-08	-3.93E-08	-3.95E-08	-3.95E-08	1.17E-07	1.17E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-1.60E-07**	**-1.60E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	-2.41E-08	-2.22E-08	-2.23E-08	-2.12E-08	-2.23E-08	-4.49E-08	-4.30E-08	-4.26E-08
URI (ΔCDF)	-1.33E-07	-1.40E-07	-1.42E-07	-1.44E-07	-1.45E-07	-1.46E-07	-1.50E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.70E-07**	**-1.70E-07**	**-1.90E-07**	**-1.90E-07**	**-1.90E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	-5.28E-10	-6.64E-10	-2.18E-10	-1.56E-10	-1.78E-10	-4.57E-10	-4.58E-10	-6.64E-10
URI (ΔCDF)	-1.50E-08	-1.58E-08	-1.55E-08	-1.53E-08	-1.53E-08	-1.53E-08	-1.53E-08	-1.55E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-08**	**-1.60E-08**	**-1.60E-08**	**-1.50E-08**	**-1.50E-08**	**-1.60E-08**	**-1.60E-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	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**
UAI (ΔCDF)	-1.97E-08	-1.91E-08	-1.91E-08	-2.76E-08	-2.75E-08	-2.75E-08	-3.61E-08	-3.61E-08
URI (ΔCDF)	2.18E-07	2.14E-07	2.10E-07	2.06E-07	2.02E-07	1.99E-07	-1.98E-07	-1.99E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.00E-07**	**1.90E-07**	**1.90E-07**	**1.80E-07**	**1.70E-07**	**1.70E-07**	**-2.30E-07**	**-2.40E-07**

Licensee Comments:

1Q/11: Changed PRA Parameter(s).

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**
Maximum activity	0.002300	0.002340	0.002490	0.002530	0.002720	0.002860	0.003270	0.001110	0.001170	0.001260	0.001300	0.001470
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.3**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

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	0.001880	0.001470	0.001520	0.001580	0.001630	0.001710	0.001730	0.002030	0.001930	0.002020	0.002020	0.002460
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**
Maximum leakage	0.067	0.117	0.069	0.091	0.098	0.086	0.085	0.647	0.032	0.027	0.162	0.172
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.7**	**1.2**	**0.7**	**0.9**	**1.0**	**0.9**	**0.9**	**6.5**	**0.3**	**0.3**	**1.6**	**1.7**
Reactor Coolant System Leakage	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**
Maximum leakage	0.041	0.016	0.051	0.047	0.006	0.027	0.018	0.056	0.009	0.014	0.005	0.022
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.4**	**0.2**	**0.5**	**0.5**	**0.1**	**0.3**	**0.2**	**0.6**	**0.1**	**0.1**	**0.1**	**0.2**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful opportunities	48.0	50.0	36.0	47.0	35.0	24.0	41.0	31.0
Total opportunities	49.0	51.0	37.0	49.0	37.0	25.0	43.0	31.0
Indicator value	**94.3%**	**94.7%**	**95.7%**	**95.8%**	**96.1%**	**96.0%**	**95.9%**	**96.9%**

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	140.0	136.0	145.0	139.0	141.0	138.0	138.0	138.0
Total Key personnel	143.0	146.0	145.0	139.0	141.0	138.0	138.0	138.0
Indicator value	**97.9%**	**93.2%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful siren-tests	310	459	314	312	312	473	553	474
Total sirens-tests	318	477	318	318	318	474	553	474
Indicator value	**96.4%**	**97.1%**	**97.8%**	**97.5%**	**97.6%**	**98.8%**	**99.2%**	**99.6%**

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

Millstone 2

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	1.0	0	1.0	1.0	0	1.0	0	1.0
Critical hours	1684.2	1197.5	2110.8	2139.0	2208.0	2134.5	2159.0	1408.9
Indicator value	**0.8**	**1.0**	**2.0**	**2.9**	**1.8**	**2.4**	**1.6**	**1.8**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned power changes	0	1.0	0	0	0	1.0	0	0
Critical hours	1684.2	1197.5	2110.8	2139.0	2208.0	2134.5	2159.0	1408.9
Indicator value	**0**	**1.0**	**1.0**	**1.0**	**0.9**	**0.8**	**0.8**	**0.9**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Scrams with complications	0	0	1.0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**1.0**	**1.0**	**1.0**	**1.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	2.99E-07	2.90E-07	1.56E-07	1.75E-07	2.25E-07	1.58E-07	1.31E-07	4.11E-08
URI (ΔCDF)	4.25E-09	8.33E-09	1.19E-08	9.15E-09	4.61E-09	3.00E-09	4.77E-10	7.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.00E-07**	**3.00E-07**	**1.70E-07**	**1.80E-07**	**2.30E-07**	**1.60E-07**	**1.30E-07**	**1.10E-07**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-6.36E-08
URI (ΔCDF)	-3.87E-08	-4.01E-08	-3.93E-08	-3.95E-08	-3.95E-08	1.17E-07	1.17E-07	1.48E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-1.60E-07**	**-1.60E-07**	**8.40E-08**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-2.22E-08	-2.23E-08	-2.12E-08	-2.23E-08	-4.49E-08	-4.30E-08	-4.26E-08	-4.63E-08
URI (ΔCDF)	-1.40E-07	-1.42E-07	-1.44E-07	-1.45E-07	-1.46E-07	-1.50E-07	-1.50E-07	-1.33E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-07**	**-1.60E-07**	**-1.70E-07**	**-1.70E-07**	**-1.90E-07**	**-1.90E-07**	**-1.90E-07**	**-1.80E-07**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-6.64E-10	-2.18E-10	-1.56E-10	-1.78E-10	-4.57E-10	-4.58E-10	-6.64E-10	-2.08E-10
URI (ΔCDF)	-1.58E-08	-1.55E-08	-1.53E-08	-1.53E-08	-1.53E-08	-1.53E-08	-1.55E-08	-1.32E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-08**	**-1.60E-08**	**-1.50E-08**	**-1.50E-08**	**-1.60E-08**	**-1.60E-08**	**-1.60E-08**	**-1.30E-08**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-1.91E-08	-1.91E-08	-2.76E-08	-2.75E-08	-2.75E-08	-3.61E-08	-3.61E-08	-1.40E-09
URI (ΔCDF)	2.14E-07	2.10E-07	2.06E-07	2.02E-07	1.99E-07	-1.98E-07	-1.99E-07	-6.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.90E-07**	**1.90E-07**	**1.80E-07**	**1.70E-07**	**1.70E-07**	**-2.30E-07**	**-2.40E-07**	**-6.30E-08**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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	0.002530	0.002720	0.002860	0.003270	0.001110	0.001170	0.001260	0.001300	0.001470	0.001880	0.001470	0.001520
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.3**	**0.3**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.2**
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	0.001580	0.001630	0.001710	0.001730	0.002030	0.001930	0.002020	0.002020	0.002460	0.002130	0.000863	0.000989
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**
Maximum leakage	0.091	0.098	0.086	0.085	0.647	0.032	0.027	0.162	0.172	0.041	0.016	0.051
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.9**	**1.0**	**0.9**	**0.9**	**6.5**	**0.3**	**0.3**	**1.6**	**1.7**	**0.4**	**0.2**	**0.5**
Reactor Coolant System Leakage	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**
Maximum leakage	0.047	0.006	0.027	0.018	0.056	0.009	0.014	0.005	0.022	0	0.033	0.002
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.5**	**0.1**	**0.3**	**0.2**	**0.6**	**0.1**	**0.1**	**0.1**	**0.2**	**0**	**0.3**	**0**

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	50.0	36.0	47.0	35.0	24.0	41.0	31.0	41.0
Total opportunities	51.0	37.0	49.0	37.0	25.0	43.0	31.0	44.0
Indicator value	**94.7%**	**95.7%**	**95.8%**	**96.1%**	**96.0%**	**95.9%**	**96.9%**	**96.2%**

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	136.0	145.0	139.0	141.0	138.0	138.0	138.0	137.0
Total Key personnel	146.0	145.0	139.0	141.0	138.0	138.0	138.0	137.0
Indicator value	**93.2%**	**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/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful siren-tests	459	314	312	312	473	553	474	553
Total sirens-tests	477	318	318	318	474	553	474	553
Indicator value	**97.1%**	**97.8%**	**97.5%**	**97.6%**	**98.8%**	**99.2%**	**99.6%**	**100.0%**

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

Millstone 2

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	1.0	1.0	0	1.0	0	1.0	0
Critical hours	1197.5	2110.8	2139.0	2208.0	2134.5	2159.0	1408.9	1879.7
Indicator value	**1.0**	**2.0**	**2.9**	**1.8**	**2.4**	**1.6**	**1.8**	**1.8**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned power changes	1.0	0	0	0	1.0	0	0	2.0
Critical hours	1197.5	2110.8	2139.0	2208.0	2134.5	2159.0	1408.9	1879.7
Indicator value	**1.0**	**1.0**	**1.0**	**0.9**	**0.8**	**0.8**	**0.9**	**2.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Scrams with complications	0	1.0	0	0	0	0	0	0
Indicator value	**0.0**	**1.0**	**1.0**	**1.0**	**1.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments:

2Q/11: LER 2011-001-00

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	2.90E-07	1.56E-07	1.75E-07	2.25E-07	1.58E-07	1.31E-07	4.11E-08	4.14E-08
URI (ΔCDF)	8.33E-09	1.19E-08	9.15E-09	4.61E-09	3.00E-09	4.77E-10	7.10E-08	6.92E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.00E-07**	**1.70E-07**	**1.80E-07**	**2.30E-07**	**1.60E-07**	**1.30E-07**	**1.10E-07**	**1.10E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**
UAI (ΔCDF)	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-6.36E-08	-6.36E-08
URI (ΔCDF)	-4.01E-08	-3.93E-08	-3.95E-08	-3.95E-08	1.17E-07	1.17E-07	1.48E-07	1.48E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-1.60E-07**	**-1.60E-07**	**8.40E-08**	**8.40E-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)	-2.23E-08	-2.12E-08	-2.23E-08	-4.49E-08	-4.30E-08	-4.26E-08	-4.63E-08	-4.17E-08
URI (ΔCDF)	-1.42E-07	-1.44E-07	-1.45E-07	-1.46E-07	-1.50E-07	-1.50E-07	-1.33E-07	-1.38E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-07**	**-1.70E-07**	**-1.70E-07**	**-1.90E-07**	**-1.90E-07**	**-1.90E-07**	**-1.80E-07**	**-1.80E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**
UAI (ΔCDF)	-2.18E-10	-1.56E-10	-1.78E-10	-4.57E-10	-4.58E-10	-6.64E-10	-2.08E-10	-1.82E-10
URI (ΔCDF)	-1.55E-08	-1.53E-08	-1.53E-08	-1.53E-08	-1.53E-08	-1.55E-08	-1.32E-08	-1.31E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-08**	**-1.50E-08**	**-1.50E-08**	**-1.60E-08**	**-1.60E-08**	**-1.60E-08**	**-1.30E-08**	**-1.30E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	-1.91E-08	-2.76E-08	-2.75E-08	-2.75E-08	-3.61E-08	-3.61E-08	-1.40E-09	5.34E-09
URI (ΔCDF)	2.10E-07	2.06E-07	2.02E-07	1.99E-07	-1.98E-07	-1.99E-07	-6.20E-08	-6.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.90E-07**	**1.80E-07**	**1.70E-07**	**1.70E-07**	**-2.30E-07**	**-2.40E-07**	**-6.30E-08**	**-5.70E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**
Maximum activity	0.003270	0.001110	0.001170	0.001260	0.001300	0.001470	0.001880	0.001470	0.001520	0.001580	0.001630	0.001710
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**
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	0.001730	0.002030	0.001930	0.002020	0.002020	0.002460	0.002130	0.000863	0.000989	0.001300	0.001040	0.001040
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**
Maximum leakage	0.085	0.647	0.032	0.027	0.162	0.172	0.041	0.016	0.051	0.047	0.006	0.027
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.9**	**6.5**	**0.3**	**0.3**	**1.6**	**1.7**	**0.4**	**0.2**	**0.5**	**0.5**	**0.1**	**0.3**
Reactor Coolant System Leakage	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**
Maximum leakage	0.018	0.056	0.009	0.014	0.005	0.022	0	0.033	0.002	0.013	0.028	0.054
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.2**	**0.6**	**0.1**	**0.1**	**0.1**	**0.2**	**0**	**0.3**	**0**	**0.1**	**0.3**	**0.5**

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	36.0	47.0	35.0	24.0	41.0	31.0	41.0	43.0
Total opportunities	37.0	49.0	37.0	25.0	43.0	31.0	44.0	43.0
Indicator value	**95.7%**	**95.8%**	**96.1%**	**96.0%**	**95.9%**	**96.9%**	**96.2%**	**96.4%**

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	145.0	139.0	141.0	138.0	138.0	138.0	137.0	139.0
Total Key personnel	145.0	139.0	141.0	138.0	138.0	138.0	137.0	139.0
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	314	312	312	473	553	474	553	474
Total sirens-tests	318	318	318	474	553	474	553	474
Indicator value	**97.8%**	**97.5%**	**97.6%**	**98.8%**	**99.2%**	**99.6%**	**100.0%**	**100.0%**

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

Millstone 2

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	1.0	1.0	0	1.0	0	1.0	0	0
Critical hours	2110.8	2139.0	2208.0	2134.5	2159.0	1408.9	1879.7	2209.0
Indicator value	**2.0**	**2.9**	**1.8**	**2.4**	**1.6**	**1.8**	**1.8**	**0.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned power changes	0	0	0	1.0	0	0	2.0	0
Critical hours	2110.8	2139.0	2208.0	2134.5	2159.0	1408.9	1879.7	2209.0
Indicator value	**1.0**	**1.0**	**0.9**	**0.8**	**0.8**	**0.9**	**2.8**	**1.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Scrams with complications	1.0	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	1.56E-07	1.75E-07	2.25E-07	1.58E-07	1.31E-07	4.11E-08	4.14E-08	3.20E-08
URI (ΔCDF)	1.19E-08	9.15E-09	4.61E-09	3.00E-09	4.77E-10	7.10E-08	6.92E-08	-1.55E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.70E-07**	**1.80E-07**	**2.30E-07**	**1.60E-07**	**1.30E-07**	**1.10E-07**	**1.10E-07**	**-1.20E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**
UAI (ΔCDF)	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-6.36E-08	-6.36E-08	-6.36E-08
URI (ΔCDF)	-3.93E-08	-3.95E-08	-3.95E-08	1.17E-07	1.17E-07	1.48E-07	1.48E-07	1.46E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-1.60E-07**	**-1.60E-07**	**8.40E-08**	**8.40E-08**	**8.30E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	-2.12E-08	-2.23E-08	-4.49E-08	-4.30E-08	-4.26E-08	-4.63E-08	-4.17E-08	-7.48E-08
URI (ΔCDF)	-1.44E-07	-1.45E-07	-1.46E-07	-1.50E-07	-1.50E-07	-1.33E-07	-1.38E-07	-1.36E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-07**	**-1.70E-07**	**-1.90E-07**	**-1.90E-07**	**-1.90E-07**	**-1.80E-07**	**-1.80E-07**	**-2.10E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**
UAI (ΔCDF)	-1.56E-10	-1.78E-10	-4.57E-10	-4.58E-10	-6.64E-10	-2.08E-10	-1.82E-10	-1.95E-10
URI (ΔCDF)	-1.53E-08	-1.53E-08	-1.53E-08	-1.53E-08	-1.55E-08	-1.32E-08	-1.31E-08	-1.33E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-08**	**-1.50E-08**	**-1.60E-08**	**-1.60E-08**	**-1.60E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	-2.76E-08	-2.75E-08	-2.75E-08	-3.61E-08	-3.61E-08	-1.40E-09	5.34E-09	5.34E-09
URI (ΔCDF)	2.06E-07	2.02E-07	1.99E-07	-1.98E-07	-1.99E-07	-6.20E-08	-6.28E-08	-6.35E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.80E-07**	**1.70E-07**	**1.70E-07**	**-2.30E-07**	**-2.40E-07**	**-6.30E-08**	**-5.70E-08**	**-5.80E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**
Maximum activity	0.001260	0.001300	0.001470	0.001880	0.001470	0.001520	0.001580	0.001630	0.001710	0.001730	0.002030	0.001930
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
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	0.002020	0.002020	0.002460	0.002130	0.000863	0.000989	0.001300	0.001040	0.001040	0.001140	0.001210	0.001210
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**
Maximum leakage	0.027	0.162	0.172	0.041	0.016	0.051	0.047	0.006	0.027	0.018	0.056	0.009
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.3**	**1.6**	**1.7**	**0.4**	**0.2**	**0.5**	**0.5**	**0.1**	**0.3**	**0.2**	**0.6**	**0.1**
Reactor Coolant System Leakage	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**
Maximum leakage	0.014	0.005	0.022	0	0.033	0.002	0.013	0.028	0.054	0.180	0.037	0.021
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**0.1**	**0.2**	**0**	**0.3**	**0**	**0.1**	**0.3**	**0.5**	**1.8**	**0.4**	**0.2**

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	47.0	35.0	24.0	41.0	31.0	41.0	43.0	27.0
Total opportunities	49.0	37.0	25.0	43.0	31.0	44.0	43.0	27.0
Indicator value	**95.8%**	**96.1%**	**96.0%**	**95.9%**	**96.9%**	**96.2%**	**96.4%**	**96.7%**

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	139.0	141.0	138.0	138.0	138.0	137.0	139.0	137.0
Total Key personnel	139.0	141.0	138.0	138.0	138.0	137.0	139.0	137.0
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	312	312	473	553	474	553	474	553
Total sirens-tests	318	318	474	553	474	553	474	553
Indicator value	**97.5%**	**97.6%**	**98.8%**	**99.2%**	**99.6%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/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

Millstone 2

1Q/2012 Performance Indicators

Licensee's General Comments: MP2 LER 2011-005-00, Enclosure Building Rendered Inoperable Due to Degraded Door Seal

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	1.0	0	1.0	0	1.0	0	0	0
Critical hours	2139.0	2208.0	2134.5	2159.0	1408.9	1879.7	2209.0	2183.0
Indicator value	**2.9**	**1.8**	**2.4**	**1.6**	**1.8**	**1.8**	**0.9**	**0.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	0	0	1.0	0	0	2.0	0	1.0
Critical hours	2139.0	2208.0	2134.5	2159.0	1408.9	1879.7	2209.0	2183.0
Indicator value	**1.0**	**0.9**	**0.8**	**0.8**	**0.9**	**2.8**	**1.8**	**2.7**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments:

2Q/11: LER 2011-001-00

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**
UAI (ΔCDF)	1.75E-07	2.25E-07	1.58E-07	1.31E-07	4.11E-08	4.14E-08	3.20E-08	2.02E-08
URI (ΔCDF)	9.15E-09	4.61E-09	3.00E-09	4.77E-10	7.10E-08	6.92E-08	-1.55E-07	-1.55E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.80E-07**	**2.30E-07**	**1.60E-07**	**1.30E-07**	**1.10E-07**	**1.10E-07**	**-1.20E-07**	**-1.30E-07**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-2.73E-07	-2.73E-07	-2.73E-07	-2.73E-07	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08
URI (ΔCDF)	-3.95E-08	-3.95E-08	1.17E-07	1.17E-07	1.48E-07	1.48E-07	1.46E-07	1.46E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-07**	**-3.10E-07**	**-1.60E-07**	**-1.60E-07**	**8.40E-08**	**8.40E-08**	**8.30E-08**	**8.20E-08**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-2.23E-08	-4.49E-08	-4.30E-08	-4.26E-08	-4.63E-08	-4.17E-08	-7.48E-08	-6.15E-08
URI (ΔCDF)	-1.45E-07	-1.46E-07	-1.50E-07	-1.50E-07	-1.33E-07	-1.38E-07	-1.36E-07	-1.37E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-07**	**-1.90E-07**	**-1.90E-07**	**-1.90E-07**	**-1.80E-07**	**-1.80E-07**	**-2.10E-07**	**-2.00E-07**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-1.78E-10	-4.57E-10	-4.58E-10	-6.64E-10	-2.08E-10	-1.82E-10	-1.95E-10	-1.95E-10
URI (ΔCDF)	-1.53E-08	-1.53E-08	-1.53E-08	-1.55E-08	-1.32E-08	-1.31E-08	-1.33E-08	-1.35E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-08**	**-1.60E-08**	**-1.60E-08**	**-1.60E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-2.75E-08	-2.75E-08	-3.61E-08	-3.61E-08	-1.40E-09	5.34E-09	5.34E-09	5.33E-09
URI (ΔCDF)	2.02E-07	1.99E-07	-1.98E-07	-1.99E-07	-6.20E-08	-6.28E-08	-6.35E-08	-6.42E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.70E-07**	**1.70E-07**	**-2.30E-07**	**-2.40E-07**	**-6.30E-08**	**-5.70E-08**	**-5.80E-08**	**-5.90E-08**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

1Q/11: Changed PRA Parameter(s).

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	0.001880	0.001470	0.001520	0.001580	0.001630	0.001710	0.001730	0.002030	0.001930	0.002020	0.002020	0.002460
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Reactor Coolant System Activity	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**
Maximum activity	0.002130	0.000863	0.000989	0.001300	0.001040	0.001040	0.001140	0.001210	0.001210	0.001250	0.001320	0.001450
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**
Maximum leakage	0.041	0.016	0.051	0.047	0.006	0.027	0.018	0.056	0.009	0.014	0.005	0.022
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.4**	**0.2**	**0.5**	**0.5**	**0.1**	**0.3**	**0.2**	**0.6**	**0.1**	**0.1**	**0.1**	**0.2**
Reactor Coolant System Leakage	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**
Maximum leakage	0	0.033	0.002	0.013	0.028	0.054	0.180	0.037	0.021	0.055	0.045	0.031
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0**	**0.3**	**0**	**0.1**	**0.3**	**0.5**	**1.8**	**0.4**	**0.2**	**0.6**	**0.5**	**0.3**

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	35.0	24.0	41.0	31.0	41.0	43.0	27.0	34.0
Total opportunities	37.0	25.0	43.0	31.0	44.0	43.0	27.0	34.0
Indicator value	**96.1%**	**96.0%**	**95.9%**	**96.9%**	**96.2%**	**96.4%**	**96.7%**	**97.2%**

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	141.0	138.0	138.0	138.0	137.0	139.0	137.0	138.0
Total Key personnel	141.0	138.0	138.0	138.0	137.0	139.0	137.0	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	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful siren-tests	312	473	553	474	553	474	553	474
Total sirens-tests	318	474	553	474	553	474	553	474
Indicator value	**97.6%**	**98.8%**	**99.2%**	**99.6%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/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

Millstone 2

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	1.0	0	1.0	0	0	0	0
Critical hours	2208.0	2134.5	2159.0	1408.9	1879.7	2209.0	2183.0	2184.0
Indicator value	**1.8**	**2.4**	**1.6**	**1.8**	**1.8**	**0.9**	**0.9**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned power changes	0	1.0	0	0	2.0	0	1.0	0
Critical hours	2208.0	2134.5	2159.0	1408.9	1879.7	2209.0	2183.0	2184.0
Indicator value	**0.9**	**0.8**	**0.8**	**0.9**	**2.8**	**1.8**	**2.7**	**2.5**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments:

2Q/11: LER 2011-001-00

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	2.25E-07	1.58E-07	1.31E-07	4.11E-08	4.14E-08	3.20E-08	2.02E-08	4.15E-08
URI (ΔCDF)	4.61E-09	3.00E-09	4.77E-10	7.10E-08	6.92E-08	-1.55E-07	-1.55E-07	-1.52E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.30E-07**	**1.60E-07**	**1.30E-07**	**1.10E-07**	**1.10E-07**	**-1.20E-07**	**-1.30E-07**	**-1.10E-07**

Licensee Comments:

2Q/12: A condition report on the diesel was written on 6/29/12. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-2.73E-07	-2.73E-07	-2.73E-07	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08
URI (ΔCDF)	-3.95E-08	1.17E-07	1.17E-07	1.48E-07	1.48E-07	1.46E-07	1.46E-07	1.44E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-07**	**-1.60E-07**	**-1.60E-07**	**8.40E-08**	**8.40E-08**	**8.30E-08**	**8.20E-08**	**8.00E-08**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-4.49E-08	-4.30E-08	-4.26E-08	-4.63E-08	-4.17E-08	-7.48E-08	-6.15E-08	-8.75E-08
URI (ΔCDF)	-1.46E-07	-1.50E-07	-1.50E-07	-1.33E-07	-1.38E-07	-1.36E-07	-1.37E-07	-1.38E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-07**	**-1.90E-07**	**-1.90E-07**	**-1.80E-07**	**-1.80E-07**	**-2.10E-07**	**-2.00E-07**	**-2.30E-07**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-4.57E-10	-4.58E-10	-6.64E-10	-2.08E-10	-1.82E-10	-1.95E-10	-1.95E-10	-1.98E-10
URI (ΔCDF)	-1.53E-08	-1.53E-08	-1.55E-08	-1.32E-08	-1.31E-08	-1.33E-08	-1.35E-08	-1.36E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-08**	**-1.60E-08**	**-1.60E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-2.75E-08	-3.61E-08	-3.61E-08	-1.40E-09	5.34E-09	5.34E-09	5.33E-09	5.05E-09
URI (ΔCDF)	1.99E-07	-1.98E-07	-1.99E-07	-6.20E-08	-6.28E-08	-6.35E-08	-6.42E-08	-6.42E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.70E-07**	**-2.30E-07**	**-2.40E-07**	**-6.30E-08**	**-5.70E-08**	**-5.80E-08**	**-5.90E-08**	**-5.90E-08**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

1Q/11: Changed PRA Parameter(s).

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	0.001580	0.001630	0.001710	0.001730	0.002030	0.001930	0.002020	0.002020	0.002460	0.002130	0.000863	0.000989
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**
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	0.001300	0.001040	0.001040	0.001140	0.001210	0.001210	0.001250	0.001320	0.001450	0.001420	0.001430	0.001540
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum leakage	0.047	0.006	0.027	0.018	0.056	0.009	0.014	0.005	0.022	0	0.033	0.002
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.5**	**0.1**	**0.3**	**0.2**	**0.6**	**0.1**	**0.1**	**0.1**	**0.2**	**0**	**0.3**	**0**
Reactor Coolant System Leakage	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**
Maximum leakage	0.013	0.028	0.054	0.180	0.037	0.021	0.055	0.045	0.031	0.061	0.034	0.060
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**0.3**	**0.5**	**1.8**	**0.4**	**0.2**	**0.6**	**0.5**	**0.3**	**0.6**	**0.3**	**0.6**

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	24.0	41.0	31.0	41.0	43.0	27.0	34.0	32.0
Total opportunities	25.0	43.0	31.0	44.0	43.0	27.0	34.0	32.0
Indicator value	**96.0%**	**95.9%**	**96.9%**	**96.2%**	**96.4%**	**96.7%**	**97.2%**	**97.8%**

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	138.0	138.0	137.0	139.0	137.0	138.0	133.0
Total Key personnel	138.0	138.0	138.0	137.0	139.0	137.0	138.0	133.0
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	473	553	474	553	474	553	474	473
Total sirens-tests	474	553	474	553	474	553	474	474
Indicator value	**98.8%**	**99.2%**	**99.6%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/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.

Millstone 2

3Q/2012 Performance Indicators

Licensee's General Comments: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the Emergency AC Power MSPI indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC Indicator data will be revised to reflect this failure in the 4th quarter.

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	1.0	0	1.0	0	0	0	0	0
Critical hours	2134.5	2159.0	1408.9	1879.7	2209.0	2183.0	2184.0	1936.0
Indicator value	**2.4**	**1.6**	**1.8**	**1.8**	**0.9**	**0.9**	**0**	**0**

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	0	2.0	0	1.0	0	1.0
Critical hours	2134.5	2159.0	1408.9	1879.7	2209.0	2183.0	2184.0	1936.0
Indicator value	**0.8**	**0.8**	**0.9**	**2.8**	**1.8**	**2.7**	**2.5**	**1.6**

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	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 > 5.0

Notes

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

Licensee Comments:

2Q/11: LER 2011-001-00

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-07	1.31E-07	4.11E-08	4.14E-08	3.20E-08	2.02E-08	4.15E-08	3.94E-08
URI (ΔCDF)	3.00E-09	4.77E-10	7.10E-08	6.92E-08	-1.55E-07	-1.55E-07	8.19E-08	8.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.60E-07**	**1.30E-07**	**1.10E-07**	**1.10E-07**	**-1.20E-07**	**-1.30E-07**	**1.20E-07**	**1.30E-07**

Licensee Comments:

3Q/12: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC Indicator data will be revised to reflect this failure in the 4th quarter.

2Q/12: A condition report on the diesel was written on 6/29/12. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

2Q/12: A condition report on the diesel was written on 6/29/12. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-2.73E-07	-2.73E-07	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08
URI (ΔCDF)	1.17E-07	1.17E-07	1.48E-07	1.48E-07	1.46E-07	1.46E-07	1.44E-07	1.43E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-07**	**-1.60E-07**	**8.40E-08**	**8.40E-08**	**8.30E-08**	**8.20E-08**	**8.00E-08**	**8.00E-08**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-4.30E-08	-4.26E-08	-4.63E-08	-4.17E-08	-7.48E-08	-6.15E-08	-8.75E-08	-8.74E-08
URI (ΔCDF)	-1.50E-07	-1.50E-07	-1.33E-07	-1.38E-07	-1.36E-07	-1.37E-07	-1.38E-07	-1.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-07**	**-1.90E-07**	**-1.80E-07**	**-1.80E-07**	**-2.10E-07**	**-2.00E-07**	**-2.30E-07**	**-2.20E-07**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-4.58E-10	-6.64E-10	-2.08E-10	-1.82E-10	-1.95E-10	-1.95E-10	-1.98E-10	-2.08E-10
URI (ΔCDF)	-1.53E-08	-1.55E-08	-1.32E-08	-1.31E-08	-1.33E-08	-1.35E-08	-1.36E-08	-1.29E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-08**	**-1.60E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-3.61E-08	-3.61E-08	-1.40E-09	5.34E-09	5.34E-09	5.33E-09	5.05E-09	4.97E-09
URI (ΔCDF)	-1.98E-07	-1.99E-07	-6.20E-08	-6.28E-08	-6.35E-08	-6.42E-08	-6.42E-08	-6.42E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-07**	**-2.40E-07**	**-6.30E-08**	**-5.70E-08**	**-5.80E-08**	**-5.90E-08**	**-5.90E-08**	**-5.90E-08**

Licensee Comments:

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

1Q/11: Changed PRA Parameter(s).

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	0.001730	0.002030	0.001930	0.002020	0.002020	0.002460	0.002130	0.000863	0.000989	0.001300	0.001040	0.001040
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
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	0.001140	0.001210	0.001210	0.001250	0.001320	0.001450	0.001420	0.001430	0.001540	0.001600	0.001580	0.002050
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.018	0.056	0.009	0.014	0.005	0.022	0	0.033	0.002	0.013	0.028	0.054
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.2**	**0.6**	**0.1**	**0.1**	**0.1**	**0.2**	**0**	**0.3**	**0**	**0.1**	**0.3**	**0.5**
Reactor Coolant System Leakage	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**
Maximum leakage	0.180	0.037	0.021	0.055	0.045	0.031	0.061	0.034	0.060	0.031	0.067	0.076
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.8**	**0.4**	**0.2**	**0.6**	**0.5**	**0.3**	**0.6**	**0.3**	**0.6**	**0.3**	**0.7**	**0.8**

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	41.0	31.0	41.0	43.0	27.0	34.0	32.0	58.0
Total opportunities	43.0	31.0	44.0	43.0	27.0	34.0	32.0	59.0
Indicator value	**95.9%**	**96.9%**	**96.2%**	**96.4%**	**96.7%**	**97.2%**	**97.8%**	**98.1%**

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	138.0	138.0	137.0	139.0	137.0	138.0	133.0	132.0
Total Key personnel	138.0	138.0	137.0	139.0	137.0	138.0	133.0	132.0
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	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful siren-tests	553	474	553	474	553	474	473	474
Total sirens-tests	553	474	553	474	553	474	474	474
Indicator value	**99.2%**	**99.6%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.9%**	**99.9%**

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

Millstone 2

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	1.0	0	0	0	0	0	0
Critical hours	2159.0	1408.9	1879.7	2209.0	2183.0	2184.0	1936.0	1104.3
Indicator value	**1.6**	**1.8**	**1.8**	**0.9**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned power changes	0	0	2.0	0	1.0	0	1.0	0
Critical hours	2159.0	1408.9	1879.7	2209.0	2183.0	2184.0	1936.0	1104.3
Indicator value	**0.8**	**0.9**	**2.8**	**1.8**	**2.7**	**2.5**	**1.6**	**1.9**

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments:

4Q/12: LER 2012-003-00, Potential For a Loss of Safety Function Due to Postulated Flood Conditions

2Q/11: LER 2011-001-00

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**
UAI (ΔCDF)	1.31E-07	4.11E-08	4.14E-08	3.20E-08	2.02E-08	4.15E-08	3.94E-08	4.71E-08
URI (ΔCDF)	4.77E-10	7.10E-08	6.92E-08	-1.55E-07	-1.55E-07	8.19E-08	1.53E-07	2.07E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.30E-07**	**1.10E-07**	**1.10E-07**	**-1.20E-07**	**-1.30E-07**	**1.20E-07**	**1.90E-07**	**2.50E-07**

Licensee Comments:

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012. One of the issues that was under review in the 3rd quarter was determined to be a failure to load (8/12).

3Q/12: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC Indicator data will be revised to reflect this failure in the 4th quarter.

3Q/12: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC Indicator data will be revised to reflect this failure in the 4th quarter.

2Q/12: A condition report on the diesel was written on 6/29/12. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

2Q/12: A condition report on the diesel was written on 6/29/12. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-2.73E-07	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08	-6.38E-08
URI (ΔCDF)	1.17E-07	1.48E-07	1.48E-07	1.46E-07	1.46E-07	1.44E-07	1.43E-07	1.54E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-07**	**8.40E-08**	**8.40E-08**	**8.30E-08**	**8.20E-08**	**8.00E-08**	**8.00E-08**	**9.00E-08**

Licensee Comments:

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-4.26E-08	-4.63E-08	-4.17E-08	-7.48E-08	-6.15E-08	-8.75E-08	-8.74E-08	-9.99E-08
URI (ΔCDF)	-1.50E-07	-1.33E-07	-1.38E-07	-1.36E-07	-1.37E-07	-1.38E-07	-1.31E-07	-1.62E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-07**	**-1.80E-07**	**-1.80E-07**	**-2.10E-07**	**-2.00E-07**	**-2.30E-07**	**-2.20E-07**	**-2.60E-07**

Licensee Comments:

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-6.64E-10	-2.08E-10	-1.82E-10	-1.95E-10	-1.95E-10	-1.98E-10	-2.08E-10	-2.16E-10
URI (ΔCDF)	-1.55E-08	-1.32E-08	-1.31E-08	-1.33E-08	-1.35E-08	-1.36E-08	-1.29E-08	-1.23E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**

Licensee Comments:

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-3.61E-08	-1.40E-09	5.34E-09	5.34E-09	5.33E-09	5.05E-09	4.97E-09	6.36E-09
URI (ΔCDF)	-1.99E-07	-6.20E-08	-6.28E-08	-6.35E-08	-6.42E-08	-6.42E-08	-6.42E-08	-1.55E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.40E-07**	**-6.30E-08**	**-5.70E-08**	**-5.80E-08**	**-5.90E-08**	**-5.90E-08**	**-5.90E-08**	**-1.50E-07**

Licensee Comments:

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

1Q/11: Changed PRA Parameter(s).

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	0.002020	0.002020	0.002460	0.002130	0.000863	0.000989	0.001300	0.001040	0.001040	0.001140	0.001210	0.001210
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
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	0.001250	0.001320	0.001450	0.001420	0.001430	0.001540	0.001600	0.001580	0.002050	0.001690	0.000828	0.000971
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**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	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**
Maximum leakage	0.014	0.005	0.022	0	0.033	0.002	0.013	0.028	0.054	0.180	0.037	0.021
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**0.1**	**0.2**	**0**	**0.3**	**0**	**0.1**	**0.3**	**0.5**	**1.8**	**0.4**	**0.2**
Reactor Coolant System Leakage	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**
Maximum leakage	0.055	0.045	0.031	0.061	0.034	0.060	0.031	0.067	0.076	0.066	0.067	0.097
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.6**	**0.5**	**0.3**	**0.6**	**0.3**	**0.6**	**0.3**	**0.7**	**0.8**	**0.7**	**0.7**	**1.0**

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	31.0	41.0	43.0	27.0	34.0	32.0	58.0	20.0
Total opportunities	31.0	44.0	43.0	27.0	34.0	32.0	59.0	21.0
Indicator value	**96.9%**	**96.2%**	**96.4%**	**96.7%**	**97.2%**	**97.8%**	**98.1%**	**98.3%**

Licensee Comments: none

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	138.0	137.0	139.0	137.0	138.0	133.0	132.0	129.0
Total Key personnel	138.0	137.0	139.0	137.0	138.0	133.0	132.0	129.0
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/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful siren-tests	474	553	474	553	474	473	474	552
Total sirens-tests	474	553	474	553	474	474	474	553
Indicator value	**99.6%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

Millstone 2

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	1.0	0	0	0	0	0	0	0
Critical hours	1408.9	1879.7	2209.0	2183.0	2184.0	1936.0	1104.3	2159.0
Indicator value	**1.8**	**1.8**	**0.9**	**0.9**	**0**	**0**	**0**	**0**

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	0	2.0	0	1.0	0	0	0	0
Critical hours	1408.9	1879.7	2209.0	2183.0	2184.0	1936.0	1104.3	2159.0
Indicator value	**0.9**	**2.8**	**1.8**	**2.7**	**2.5**	**0.8**	**0.9**	**0**

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	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 > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Safety System Functional Failures	1	0	0	1	0	0	1	0
Indicator value	**1**	**1**	**1**	**2**	**1**	**1**	**2**	**1**

Licensee Comments:

4Q/12: LER 2012-003-00, Potential For a Loss of Safety Function Due to Postulated Flood Conditions

2Q/11: LER 2011-001-00

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)	4.11E-08	4.14E-08	3.20E-08	2.02E-08	4.15E-08	3.94E-08	4.71E-08	6.96E-08
URI (ΔCDF)	7.10E-08	6.92E-08	-1.55E-07	-1.55E-07	8.19E-08	1.53E-07	2.07E-07	2.24E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-07**	**1.10E-07**	**-1.20E-07**	**-1.30E-07**	**1.20E-07**	**1.90E-07**	**2.50E-07**	**2.90E-07**

Licensee Comments:

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012. One of the issues that was under review in the 3rd quarter was determined to be a failure to load (8/12).

3Q/12: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC Indicator data will be revised to reflect this failure in the 4th quarter.

3Q/12: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC Indicator data will be revised to reflect this failure in the 4th quarter.

2Q/12: A condition report on the diesel was written on 6/29/12. This condition report is under review. If this

event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

2Q/12: A condition report on the diesel was written on 6/29/12. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08	-6.38E-08	-6.38E-08
URI (ΔCDF)	1.48E-07	1.48E-07	1.46E-07	1.46E-07	1.44E-07	1.43E-07	1.54E-07	1.52E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.40E-08**	**8.40E-08**	**8.30E-08**	**8.20E-08**	**8.00E-08**	**8.00E-08**	**9.00E-08**	**8.90E-08**

Licensee Comments:

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-4.63E-08	-4.17E-08	-7.48E-08	-6.15E-08	-8.75E-08	-8.74E-08	-9.99E-08	-8.94E-08
URI (ΔCDF)	-1.33E-07	-1.38E-07	-1.36E-07	-1.37E-07	-1.38E-07	-1.31E-07	-1.62E-07	-1.58E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.80E-07**	**-1.80E-07**	**-2.10E-07**	**-2.00E-07**	**-2.30E-07**	**-2.20E-07**	**-2.60E-07**	**-2.50E-07**

Licensee Comments:

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-2.08E-10	-1.82E-10	-1.95E-10	-1.95E-10	-1.98E-10	-2.08E-10	-2.16E-10	-2.16E-10
URI (ΔCDF)	-1.32E-08	-1.31E-08	-1.33E-08	-1.35E-08	-1.36E-08	-1.29E-08	-1.23E-08	-1.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**

Licensee Comments:

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

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)	-1.40E-09	5.34E-09	5.34E-09	5.33E-09	5.05E-09	4.97E-09	6.36E-09	6.34E-09
URI (ΔCDF)	-6.20E-08	-6.28E-08	-6.35E-08	-6.42E-08	-6.42E-08	-6.42E-08	-1.55E-07	-1.55E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.30E-08**	**-5.70E-08**	**-5.80E-08**	**-5.90E-08**	**-5.90E-08**	**-5.90E-08**	**-1.50E-07**	**-1.50E-07**

Licensee Comments:

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

2Q/11: A PRA model change for Millstone Unit 2 was implemented during the second quarter.

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**
Maximum activity	0.002130	0.000863	0.000989	0.001300	0.001040	0.001040	0.001140	0.001210	0.001210	0.001250	0.001320	0.001450
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Reactor Coolant System Activity	**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	0.001420	0.001430	0.001540	0.001600	0.001580	0.002050	0.001690	0.000828	0.000971	0.001190	0.001090	0.001600
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**

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	0	0.033	0.002	0.013	0.028	0.054	0.180	0.037	0.021	0.055	0.045	0.031
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0**	**0.3**	**0**	**0.1**	**0.3**	**0.5**	**1.8**	**0.4**	**0.2**	**0.6**	**0.5**	**0.3**
Reactor Coolant System Leakage	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**
Maximum leakage	0.061	0.034	0.060	0.031	0.067	0.076	0.066	0.067	0.097	0.052	0.017	0.026
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.6**	**0.3**	**0.6**	**0.3**	**0.7**	**0.8**	**0.7**	**0.7**	**1.0**	**0.5**	**0.2**	**0.3**

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	41.0	43.0	27.0	34.0	32.0	58.0	20.0	35.0
Total opportunities	44.0	43.0	27.0	34.0	32.0	59.0	21.0	35.0
Indicator value	**96.2%**	**96.4%**	**96.7%**	**97.2%**	**97.8%**	**98.1%**	**98.3%**	**98.3%**

Licensee Comments: none

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	137.0	139.0	137.0	138.0	133.0	132.0	129.0	129.0
Total Key personnel	137.0	139.0	137.0	138.0	133.0	132.0	129.0	129.0
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/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful siren-tests	553	474	553	474	473	474	552	474
Total sirens-tests	553	474	553	474	474	474	553	474
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

Millstone 2

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	0	0	0	0	0	0	0
Critical hours	1879.7	2209.0	2183.0	2184.0	1936.0	1104.3	2159.0	2184.0
Indicator value	**1.8**	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**

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	2.0	0	1.0	0	0	0	0	0
Critical hours	1879.7	2209.0	2183.0	2184.0	1936.0	1104.3	2159.0	2184.0
Indicator value	**2.8**	**1.8**	**2.7**	**2.5**	**0.8**	**0.9**	**0**	**0**

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	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 > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Safety System Functional Failures	0	0	1	0	0	1	0	1
Indicator value	**1**	**1**	**2**	**1**	**1**	**2**	**1**	**2**

Licensee Comments:

2Q/13: LER 2013-002-00, Turbine Driven Auxiliary Feedwater Pump HELB Door Left Open During Surveillance Test

4Q/12: LER 2012-003-00, Potential For a Loss of Safety Function Due to Postulated Flood Conditions

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)	4.14E-08	3.20E-08	2.02E-08	4.15E-08	3.94E-08	4.71E-08	6.96E-08	4.03E-08
URI (ΔCDF)	6.92E-08	-1.55E-07	-1.55E-07	8.19E-08	1.53E-07	2.07E-07	2.24E-07	2.34E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-07**	**-1.20E-07**	**-1.30E-07**	**1.20E-07**	**1.90E-07**	**2.50E-07**	**2.90E-07**	**2.70E-07**

Licensee Comments:

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012. One of the issues that was under review in the 3rd quarter was determined to be a failure to load (8/12).

3Q/12: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC Indicator data will be revised to reflect this failure in the 4th quarter.

3Q/12: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC Indicator data will be revised to reflect this failure in the 4th quarter.

2Q/12: A condition report on the diesel was written on 6/29/12. This condition report is under review. If this

event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

2Q/12: A condition report on the diesel was written on 6/29/12. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

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)	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08	-6.38E-08	-6.38E-08	-6.39E-08
URI (ΔCDF)	1.48E-07	1.46E-07	1.46E-07	1.44E-07	1.43E-07	1.54E-07	1.52E-07	1.52E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.40E-08**	**8.30E-08**	**8.20E-08**	**8.00E-08**	**8.00E-08**	**9.00E-08**	**8.90E-08**	**8.80E-08**

Licensee Comments:

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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)	-4.17E-08	-7.48E-08	-6.15E-08	-8.75E-08	-8.74E-08	-9.99E-08	-8.94E-08	-9.83E-08
URI (ΔCDF)	-1.38E-07	-1.36E-07	-1.37E-07	-1.38E-07	-1.31E-07	-1.62E-07	-1.58E-07	-1.53E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.80E-07**	**-2.10E-07**	**-2.00E-07**	**-2.30E-07**	**-2.20E-07**	**-2.60E-07**	**-2.50E-07**	**-2.50E-07**

Licensee Comments:

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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)	-1.82E-10	-1.95E-10	-1.95E-10	-1.98E-10	-2.08E-10	-2.16E-10	-2.16E-10	-1.63E-10
URI (ΔCDF)	-1.31E-08	-1.33E-08	-1.35E-08	-1.36E-08	-1.29E-08	-1.23E-08	-1.27E-08	-1.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**

Licensee Comments:

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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)	5.34E-09	5.34E-09	5.33E-09	5.05E-09	4.97E-09	6.36E-09	6.34E-09	6.24E-09
URI (ΔCDF)	-6.28E-08	-6.35E-08	-6.42E-08	-6.42E-08	-6.42E-08	-1.55E-07	-1.55E-07	-1.54E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.70E-08**	**-5.80E-08**	**-5.90E-08**	**-5.90E-08**	**-5.90E-08**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**

Licensee Comments:

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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	0.001300	0.001040	0.001040	0.001140	0.001210	0.001210	0.001250	0.001320	0.001450	0.001420	0.001430	0.001540
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.001600	0.001580	0.002050	0.001690	0.000828	0.000971	0.001190	0.001090	0.001600	0.001210	0.001180	0.001280
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum leakage	0.013	0.028	0.054	0.180	0.037	0.021	0.055	0.045	0.031	0.061	0.034	0.060
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**0.3**	**0.5**	**1.8**	**0.4**	**0.2**	**0.6**	**0.5**	**0.3**	**0.6**	**0.3**	**0.6**
Reactor Coolant System Leakage	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**
Maximum leakage	0.031	0.067	0.076	0.066	0.067	0.097	0.052	0.017	0.026	0.010	0.030	0.024
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.3**	**0.7**	**0.8**	**0.7**	**0.7**	**1.0**	**0.5**	**0.2**	**0.3**	**0.1**	**0.3**	**0.2**

Licensee Comments: none

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	43.0	27.0	34.0	32.0	58.0	20.0	35.0	26.0
Total opportunities	43.0	27.0	34.0	32.0	59.0	21.0	35.0	26.0
Indicator value	**96.4%**	**96.7%**	**97.2%**	**97.8%**	**98.1%**	**98.3%**	**98.3%**	**99.3%**

Licensee Comments: none

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	139.0	137.0	138.0	133.0	132.0	129.0	129.0	131.0
Total Key personnel	139.0	137.0	138.0	133.0	132.0	129.0	129.0	131.0
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/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful siren-tests	474	553	474	473	474	552	474	553
Total sirens-tests	474	553	474	474	474	553	474	553
Indicator value	**100.0%**	**100.0%**	**100.0%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**

Licensee Comments: none

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

Millstone 2

3Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. The changes did not result in crossing the GREEN/WHITE threshold.

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2183.0	2184.0	1936.0	1104.3	2159.0	2184.0	2208.0
Indicator value	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**	**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	1.0	0	0	0	0	0	0
Critical hours	2209.0	2183.0	2184.0	1936.0	1104.3	2159.0	2184.0	2208.0
Indicator value	**1.8**	**2.7**	**2.5**	**0.8**	**0.9**	**0**	**0**	**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	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 > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Safety System Functional Failures	0	1	0	0	1	0	1	0
Indicator value	**1**	**2**	**1**	**1**	**2**	**1**	**2**	**2**

Licensee Comments:

2Q/13: LER 2013-002-00, Turbine Driven Auxiliary Feedwater Pump HELB Door Left Open During Surveillance Test

4Q/12: LER 2012-003-00, Potential For a Loss of Safety Function Due to Postulated Flood Conditions

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)	3.20E-08	2.02E-08	4.15E-08	3.94E-08	4.71E-08	6.96E-08	4.03E-08	1.59E-08
URI (ΔCDF)	-1.55E-07	-1.55E-07	8.19E-08	1.53E-07	2.07E-07	2.24E-07	2.34E-07	2.48E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-07**	**-1.30E-07**	**1.20E-07**	**1.90E-07**	**2.50E-07**	**2.90E-07**	**2.70E-07**	**2.60E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012. One of the issues that was under review in the 3rd quarter was determined to be a failure to load (8/12).

3Q/12: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC Indicator data will be revised to reflect this failure in the 4th quarter.

3Q/12: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC

Indicator data will be revised to reflect this failure in the 4th quarter.

2Q/12: A condition report on the diesel was written on 6/29/12. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

2Q/12: A condition report on the diesel was written on 6/29/12. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

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)	-6.36E-08	-6.36E-08	-6.36E-08	-6.36E-08	-6.38E-08	-6.38E-08	-6.39E-08	-6.39E-08
URI (ΔCDF)	1.46E-07	1.46E-07	1.44E-07	1.43E-07	1.54E-07	1.52E-07	1.52E-07	1.52E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.30E-08**	**8.20E-08**	**8.00E-08**	**8.00E-08**	**9.00E-08**	**8.90E-08**	**8.80E-08**	**8.80E-08**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st

quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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)	-7.48E-08	-6.15E-08	-8.75E-08	-8.74E-08	-9.99E-08	-8.94E-08	-9.83E-08	-9.83E-08
URI (ΔCDF)	-1.36E-07	-1.37E-07	-1.38E-07	-1.31E-07	-1.62E-07	-1.58E-07	-1.53E-07	-1.53E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-07**	**-2.00E-07**	**-2.30E-07**	**-2.20E-07**	**-2.60E-07**	**-2.50E-07**	**-2.50E-07**	**-2.50E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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)	-1.95E-10	-1.95E-10	-1.98E-10	-2.08E-10	-2.16E-10	-2.16E-10	-1.63E-10	-2.16E-10
URI (ΔCDF)	-1.33E-08	-1.35E-08	-1.36E-08	-1.29E-08	-1.23E-08	-1.27E-08	-1.40E-08	-1.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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)	5.34E-09	5.33E-09	5.05E-09	4.97E-09	6.36E-09	6.34E-09	6.24E-09	6.24E-09
URI (ΔCDF)	-6.35E-08	-6.42E-08	-6.42E-08	-6.42E-08	-1.55E-07	-1.55E-07	-1.54E-07	-1.54E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.80E-08**	**-5.90E-08**	**-5.90E-08**	**-5.90E-08**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**
Maximum activity	0.001140	0.001210	0.001210	0.001250	0.001320	0.001450	0.001420	0.001430	0.001540	0.001600	0.001580	0.002050
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.001690	0.000828	0.000971	0.001190	0.001090	0.001600	0.001210	0.001180	0.001280	0.001230	0.001330	0.001320
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum leakage	0.180	0.037	0.021	0.055	0.045	0.031	0.061	0.034	0.060	0.031	0.067	0.076
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.8**	**0.4**	**0.2**	**0.6**	**0.5**	**0.3**	**0.6**	**0.3**	**0.6**	**0.3**	**0.7**	**0.8**
Reactor Coolant System Leakage	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**
Maximum leakage	0.066	0.067	0.097	0.052	0.017	0.026	0.010	0.030	0.024	0.059	0.020	0.009
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.7**	**0.7**	**1.0**	**0.5**	**0.2**	**0.3**	**0.1**	**0.3**	**0.2**	**0.6**	**0.2**	**0.1**

Licensee Comments: none

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	27.0	34.0	32.0	58.0	20.0	35.0	26.0	20.0
Total opportunities	27.0	34.0	32.0	59.0	21.0	35.0	26.0	21.0
Indicator value	**96.7%**	**97.2%**	**97.8%**	**98.1%**	**98.3%**	**98.3%**	**99.3%**	**98.8%**

Licensee Comments: none

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	137.0	138.0	133.0	132.0	129.0	129.0	131.0	132.0
Total Key personnel	137.0	138.0	133.0	132.0	129.0	129.0	131.0	132.0
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	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful siren-tests	553	474	473	474	552	474	553	474
Total sirens-tests	553	474	474	474	553	474	553	474
Indicator value	**100.0%**	**100.0%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**

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

Millstone 2

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	0	0	0	0	0	1.0
Critical hours	2183.0	2184.0	1936.0	1104.3	2159.0	2184.0	2208.0	2170.4
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**	**0.8**

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	1.0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	1936.0	1104.3	2159.0	2184.0	2208.0	2170.4
Indicator value	**2.7**	**2.5**	**0.8**	**0.9**	**0**	**0**	**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	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Safety System Functional Failures	1	0	0	1	0	1	0	0
Indicator value	**2**	**1**	**1**	**2**	**1**	**2**	**2**	**1**

Licensee Comments:

2Q/13: LER 2013-002-00, Turbine Driven Auxiliary Feedwater Pump HELB Door Left Open During Surveillance Test

4Q/12: LER 2012-003-00, Potential For a Loss of Safety Function Due to Postulated Flood Conditions

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)	2.02E-08	4.15E-08	3.94E-08	4.71E-08	6.96E-08	4.03E-08	1.59E-08	1.92E-08
URI (ΔCDF)	-1.55E-07	8.19E-08	1.53E-07	2.07E-07	2.24E-07	2.34E-07	2.48E-07	2.68E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-07**	**1.20E-07**	**1.90E-07**	**2.50E-07**	**2.90E-07**	**2.70E-07**	**2.60E-07**	**2.90E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012. One of the issues that was under review in the 3rd quarter was determined to be a failure to load (8/12).

3Q/12: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC Indicator data will be revised to reflect this failure in the 4th quarter.

3Q/12: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC

Indicator data will be revised to reflect this failure in the 4th quarter.

2Q/12: A condition report on the diesel was written on 6/29/12. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

2Q/12: A condition report on the diesel was written on 6/29/12. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

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)	-6.36E-08	-6.36E-08	-6.36E-08	-6.38E-08	-6.38E-08	-6.39E-08	-6.39E-08	-6.30E-08
URI (ΔCDF)	1.46E-07	1.44E-07	1.43E-07	1.54E-07	1.52E-07	1.52E-07	1.52E-07	-4.65E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.20E-08**	**8.00E-08**	**8.00E-08**	**9.00E-08**	**8.90E-08**	**8.80E-08**	**8.80E-08**	**-1.10E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st

quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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)	-6.15E-08	-8.75E-08	-8.74E-08	-9.99E-08	-8.94E-08	-9.83E-08	-9.83E-08	-9.84E-08
URI (ΔCDF)	-1.37E-07	-1.38E-07	-1.31E-07	-1.62E-07	-1.58E-07	-1.53E-07	-1.53E-07	-1.49E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.00E-07**	**-2.30E-07**	**-2.20E-07**	**-2.60E-07**	**-2.50E-07**	**-2.50E-07**	**-2.50E-07**	**-2.50E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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)	-1.95E-10	-1.98E-10	-2.08E-10	-2.16E-10	-2.16E-10	-1.63E-10	-2.16E-10	-2.16E-10
URI (ΔCDF)	-1.35E-08	-1.36E-08	-1.29E-08	-1.23E-08	-1.27E-08	-1.40E-08	-1.40E-08	-1.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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)	5.33E-09	5.05E-09	4.97E-09	6.36E-09	6.34E-09	6.24E-09	6.24E-09	6.23E-09
URI (ΔCDF)	-6.42E-08	-6.42E-08	-6.42E-08	-1.55E-07	-1.55E-07	-1.54E-07	-1.54E-07	-1.54E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.90E-08**	**-5.90E-08**	**-5.90E-08**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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	0.001250	0.001320	0.001450	0.001420	0.001430	0.001540	0.001600	0.001580	0.002050	0.001690	0.000828	0.000971
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**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	0.001190	0.001090	0.001600	0.001210	0.001180	0.001280	0.001230	0.001330	0.001320	0.001410	0.001450	0.001520
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**
Maximum leakage	0.055	0.045	0.031	0.061	0.034	0.060	0.031	0.067	0.076	0.066	0.067	0.097
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.6**	**0.5**	**0.3**	**0.6**	**0.3**	**0.6**	**0.3**	**0.7**	**0.8**	**0.7**	**0.7**	**1.0**
Reactor Coolant System Leakage	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**
Maximum leakage	0.052	0.017	0.026	0.010	0.030	0.024	0.059	0.020	0.009	0.023	0.008	0.017
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.5**	**0.2**	**0.3**	**0.1**	**0.3**	**0.2**	**0.6**	**0.2**	**0.1**	**0.2**	**0.1**	**0.2**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful opportunities	34.0	32.0	58.0	20.0	35.0	26.0	20.0	26.0
Total opportunities	34.0	32.0	59.0	21.0	35.0	26.0	21.0	26.0
Indicator value	**97.2%**	**97.8%**	**98.1%**	**98.3%**	**98.3%**	**99.3%**	**98.8%**	**98.8%**

Licensee Comments: none

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	138.0	133.0	132.0	129.0	129.0	131.0	132.0	132.0
Total Key personnel	138.0	133.0	132.0	129.0	129.0	131.0	132.0	132.0
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	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful siren-tests	474	473	474	552	474	553	474	553
Total sirens-tests	474	474	474	553	474	553	474	553
Indicator value	**100.0%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**

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

Millstone 2

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	0	0	0	0	0	1.0	0
Critical hours	2184.0	1936.0	1104.3	2159.0	2184.0	2208.0	2170.4	2122.6
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.8**	**0.8**

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	0	0	0	0	0	0	2.0
Critical hours	2184.0	1936.0	1104.3	2159.0	2184.0	2208.0	2170.4	2122.6
Indicator value	**2.5**	**0.8**	**0.9**	**0**	**0**	**0**	**0**	**1.6**

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	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Safety System Functional Failures	0	0	1	0	1	0	0	0
Indicator value	**1**	**1**	**2**	**1**	**2**	**2**	**1**	**1**

Licensee Comments:

2Q/13: LER 2013-002-00, Turbine Driven Auxiliary Feedwater Pump HELB Door Left Open During Surveillance Test

4Q/12: LER 2012-003-00, Potential For a Loss of Safety Function Due to Postulated Flood Conditions

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)	4.15E-08	3.94E-08	4.71E-08	6.96E-08	4.03E-08	1.59E-08	1.92E-08	3.19E-08
URI (ΔCDF)	8.19E-08	1.53E-07	2.07E-07	2.24E-07	2.34E-07	2.48E-07	2.68E-07	2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.20E-07**	**1.90E-07**	**2.50E-07**	**2.90E-07**	**2.70E-07**	**2.60E-07**	**2.90E-07**	**3.10E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012. One of the issues that was under review in the 3rd quarter was determined to be a failure to load (8/12).

3Q/12: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC Indicator data will be revised to reflect this failure in the 4th quarter.

3Q/12: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC Indicator data will be revised to reflect this failure in the 4th quarter.

2Q/12: A condition report on the diesel was written on 6/29/12. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

2Q/12: A condition report on the diesel was written on 6/29/12. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

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)	-6.36E-08	-6.36E-08	-6.38E-08	-6.38E-08	-6.39E-08	-6.39E-08	-6.30E-08	-6.40E-08
URI (ΔCDF)	1.44E-07	1.43E-07	1.54E-07	1.52E-07	1.52E-07	1.52E-07	-4.65E-08	-4.65E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.00E-08**	**8.00E-08**	**9.00E-08**	**8.90E-08**	**8.80E-08**	**8.80E-08**	**-1.10E-07**	**-1.10E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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)	-8.75E-08	-8.74E-08	-9.99E-08	-8.94E-08	-9.83E-08	-9.83E-08	-9.84E-08	-9.82E-08
URI (ΔCDF)	-1.38E-07	-1.31E-07	-1.62E-07	-1.58E-07	-1.53E-07	-1.53E-07	-1.49E-07	-1.49E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-07**	**-2.20E-07**	**-2.60E-07**	**-2.50E-07**	**-2.50E-07**	**-2.50E-07**	**-2.50E-07**	**-2.50E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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)	-1.98E-10	-2.08E-10	-2.16E-10	-2.16E-10	-1.63E-10	-2.16E-10	-2.16E-10	-2.16E-10
URI (ΔCDF)	-1.36E-08	-1.29E-08	-1.23E-08	-1.27E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.38E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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)	5.05E-09	4.97E-09	6.36E-09	6.34E-09	6.24E-09	6.24E-09	6.23E-09	6.24E-09
URI (ΔCDF)	-6.42E-08	-6.42E-08	-1.55E-07	-1.55E-07	-1.54E-07	-1.54E-07	-1.54E-07	-1.54E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.90E-08**	**-5.90E-08**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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	0.001420	0.001430	0.001540	0.001600	0.001580	0.002050	0.001690	0.000828	0.000971	0.001190	0.001090	0.001600
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**
Reactor Coolant System Activity	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**
Maximum activity	0.001210	0.001180	0.001280	0.001230	0.001330	0.001320	0.001410	0.001450	0.001520	0.001540	0.001550	0.001960
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**
Maximum leakage	0.061	0.034	0.060	0.031	0.067	0.076	0.066	0.067	0.097	0.052	0.017	0.026
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.6**	**0.3**	**0.6**	**0.3**	**0.7**	**0.8**	**0.7**	**0.7**	**1.0**	**0.5**	**0.2**	**0.3**
Reactor Coolant System Leakage	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**
Maximum leakage	0.010	0.030	0.024	0.059	0.020	0.009	0.023	0.008	0.017	0.004	0.004	0.017
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**0.3**	**0.2**	**0.6**	**0.2**	**0.1**	**0.2**	**0.1**	**0.2**	**0**	**0**	**0.2**

Licensee Comments: none

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	32.0	58.0	20.0	35.0	26.0	20.0	26.0	28.0
Total opportunities	32.0	59.0	21.0	35.0	26.0	21.0	26.0	31.0
Indicator value	**97.8%**	**98.1%**	**98.3%**	**98.3%**	**99.3%**	**98.8%**	**98.8%**	**97.6%**

Licensee Comments: none

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	133.0	132.0	129.0	129.0	131.0	132.0	132.0	132.0
Total Key personnel	133.0	132.0	129.0	129.0	131.0	132.0	132.0	132.0
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/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful siren-tests	473	474	552	474	553	474	553	474
Total sirens-tests	474	474	553	474	553	474	553	474
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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

Millstone 2

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	0	0	0	0	0	1.0	0	1.0
Critical hours	1936.0	1104.3	2159.0	2184.0	2208.0	2170.4	2122.6	1138.4
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.8**	**0.8**	**1.8**

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	0	0	0	0	0	0	2.0	0
Critical hours	1936.0	1104.3	2159.0	2184.0	2208.0	2170.4	2122.6	1138.4
Indicator value	**0.8**	**0.9**	**0**	**0**	**0**	**0**	**1.6**	**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	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 > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Safety System Functional Failures	0	1	0	1	0	0	0	1
Indicator value	**1**	**2**	**1**	**2**	**2**	**1**	**1**	**1**

Licensee Comments:

2Q/14: LER 2014-003-00, Loss of Safety Function Due to Inoperable Enclosure Building

2Q/13: LER 2013-002-00, Turbine Driven Auxiliary Feedwater Pump HELB Door Left Open During Surveillance Test

4Q/12: LER 2012-003-00, Potential For a Loss of Safety Function Due to Postulated Flood Conditions

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)	3.94E-08	4.71E-08	6.96E-08	4.03E-08	1.59E-08	1.92E-08	3.19E-08	2.68E-08
URI (ΔCDF)	1.53E-07	2.07E-07	2.24E-07	2.34E-07	2.48E-07	2.68E-07	2.80E-07	2.90E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.90E-07**	**2.50E-07**	**2.90E-07**	**2.70E-07**	**2.60E-07**	**2.90E-07**	**3.10E-07**	**3.20E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012. One of the issues that was under review in the 3rd quarter was determined to be a failure to load (8/12).

3Q/12: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC Indicator data will be revised to reflect this failure in the 4th quarter.

3Q/12: June 2012 data updated to identify a run failure on 6/29/12. It did not result in the indicator crossing the GREEN/WHITE threshold. A condition report on the diesel was written on 8/15/12 and the diesel heat exchanger on 9/26/12. These condition reports are under review. If these events are determined to be a failure the NRC Indicator data will be revised to reflect this failure in the 4th quarter.

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)	-6.36E-08	-6.38E-08	-6.38E-08	-6.39E-08	-6.39E-08	-6.30E-08	-6.40E-08	-6.40E-08
URI (ΔCDF)	1.43E-07	1.54E-07	1.52E-07	1.52E-07	1.52E-07	-4.65E-08	-4.65E-08	-4.38E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.00E-08**	**9.00E-08**	**8.90E-08**	**8.80E-08**	**8.80E-08**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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)	-8.74E-08	-9.99E-08	-8.94E-08	-9.83E-08	-9.83E-08	-9.84E-08	-9.82E-08	-6.75E-08
URI (ΔCDF)	-1.31E-07	-1.62E-07	-1.58E-07	-1.53E-07	-1.53E-07	-1.49E-07	-1.49E-07	-1.53E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.20E-07**	**-2.60E-07**	**-2.50E-07**	**-2.50E-07**	**-2.50E-07**	**-2.50E-07**	**-2.50E-07**	**-2.20E-07**

Licensee Comments:

2Q/14: A condition report on the B motor driven Auxiliary Feedwater pump was written in April 2014. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**
UAI (ΔCDF)	-2.08E-10	-2.16E-10	-2.16E-10	-1.63E-10	-2.16E-10	-2.16E-10	-2.16E-10	-2.16E-10
URI (ΔCDF)	-1.29E-08	-1.23E-08	-1.27E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.38E-08	-1.23E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-1.20E-08**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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)	4.97E-09	6.36E-09	6.34E-09	6.24E-09	6.24E-09	6.23E-09	6.24E-09	5.24E-09
URI (ΔCDF)	-6.42E-08	-1.55E-07	-1.55E-07	-1.54E-07	-1.54E-07	-1.54E-07	-1.54E-07	-1.55E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.90E-08**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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	0.001600	0.001580	0.002050	0.001690	0.000828	0.000971	0.001190	0.001090	0.001600	0.001210	0.001180	0.001280
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**
Reactor Coolant System Activity	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**
Maximum activity	0.001230	0.001330	0.001320	0.001410	0.001450	0.001520	0.001540	0.001550	0.001960	0.001250	0.000713	0.000820
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**
Maximum leakage	0.031	0.067	0.076	0.066	0.067	0.097	0.052	0.017	0.026	0.010	0.030	0.024
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.3**	**0.7**	**0.8**	**0.7**	**0.7**	**1.0**	**0.5**	**0.2**	**0.3**	**0.1**	**0.3**	**0.2**
Reactor Coolant System Leakage	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**
Maximum leakage	0.059	0.020	0.009	0.023	0.008	0.017	0.004	0.004	0.017	0.004	0.031	0.015
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.6**	**0.2**	**0.1**	**0.2**	**0.1**	**0.2**	**0**	**0**	**0.2**	**0**	**0.3**	**0.2**

Licensee Comments: none

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	58.0	20.0	35.0	26.0	20.0	26.0	28.0	25.0
Total opportunities	59.0	21.0	35.0	26.0	21.0	26.0	31.0	25.0
Indicator value	**98.1%**	**98.3%**	**98.3%**	**99.3%**	**98.8%**	**98.8%**	**97.6%**	**97.5%**

Licensee Comments: none

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	132.0	129.0	129.0	131.0	132.0	132.0	132.0	130.0
Total Key personnel	132.0	129.0	129.0	131.0	132.0	132.0	132.0	130.0
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/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful siren-tests	474	552	474	553	474	553	474	553
Total sirens-tests	474	553	474	553	474	553	474	553
Indicator value	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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

Millstone 2

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	1.0	0	1.0	0
Critical hours	1104.3	2159.0	2184.0	2208.0	2170.4	2122.6	1138.4	2130.4
Indicator value	**0**	**0**	**0**	**0**	**0.8**	**0.8**	**1.8**	**1.9**

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	1.0
Critical hours	1104.3	2159.0	2184.0	2208.0	2170.4	2122.6	1138.4	2130.4
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**1.6**	**1.8**	**2.8**

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	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 > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Safety System Functional Failures	1	0	1	0	0	0	1	0
Indicator value	**2**	**1**	**2**	**2**	**1**	**1**	**1**	**1**

Licensee Comments:

2Q/14: LER 2014-003-00, Loss of Safety Function Due to Inoperable Enclosure Building

2Q/13: LER 2013-002-00, Turbine Driven Auxiliary Feedwater Pump HELB Door Left Open During Surveillance Test

4Q/12: LER 2012-003-00, Potential For a Loss of Safety Function Due to Postulated Flood Conditions

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)	4.71E-08	6.96E-08	4.03E-08	1.59E-08	1.92E-08	3.19E-08	2.68E-08	2.49E-08
URI (ΔCDF)	2.07E-07	2.24E-07	2.34E-07	2.48E-07	2.68E-07	2.80E-07	2.90E-07	3.05E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.50E-07**	**2.90E-07**	**2.70E-07**	**2.60E-07**	**2.90E-07**	**3.10E-07**	**3.20E-07**	**3.30E-07**

Licensee Comments:

3Q/14: Updated the 'B' baseline unavailability to remove one overhaul due to only one overhaul being performed in the 3 year period. This is consistent with assumptions in the Basis Document.

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012. One of the issues that was under review in the 3rd quarter was determined to be a failure to load (8/12).

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)	-6.38E-08	-6.38E-08	-6.39E-08	-6.39E-08	-6.30E-08	-6.40E-08	-6.40E-08	-6.40E-08
URI (ΔCDF)	1.54E-07	1.52E-07	1.52E-07	1.52E-07	-4.65E-08	-4.65E-08	-4.38E-08	-4.32E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.00E-08**	**8.90E-08**	**8.80E-08**	**8.80E-08**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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)	-9.99E-08	-8.94E-08	-9.83E-08	-9.83E-08	-9.84E-08	-9.82E-08	-6.75E-08	-5.67E-08
URI (ΔCDF)	-1.62E-07	-1.58E-07	-1.53E-07	-1.53E-07	-1.49E-07	-1.49E-07	-1.53E-07	-1.52E-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**	**-2.50E-07**	**-2.20E-07**	**-2.10E-07**

Licensee Comments:

2Q/14: A condition report on the B motor driven Auxiliary Feedwater pump was written in April 2014. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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)	-2.16E-10	-2.16E-10	-1.63E-10	-2.16E-10	-2.16E-10	-2.16E-10	-2.16E-10	-2.16E-10
URI (ΔCDF)	-1.23E-08	-1.27E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.38E-08	-1.23E-08	-1.23E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-1.20E-08**	**-1.20E-08**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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)	6.36E-09	6.34E-09	6.24E-09	6.24E-09	6.23E-09	6.24E-09	5.24E-09	-2.96E-09
URI (ΔCDF)	-1.55E-07	-1.55E-07	-1.54E-07	-1.54E-07	-1.54E-07	-1.54E-07	-1.55E-07	-1.55E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.60E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

4Q/12: Changed PRA Parameter(s). PRA parameters were updated based on a model revision issued in the 3rd quarter 2012.

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	0.001690	0.000828	0.000971	0.001190	0.001090	0.001600	0.001210	0.001180	0.001280	0.001230	0.001330	0.001320
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**
Maximum activity	0.001410	0.001450	0.001520	0.001540	0.001550	0.001960	0.001250	0.000713	0.000820	0.000873	0.000907	0.001020
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**
Maximum leakage	0.066	0.067	0.097	0.052	0.017	0.026	0.010	0.030	0.024	0.059	0.020	0.009
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.7**	**0.7**	**1.0**	**0.5**	**0.2**	**0.3**	**0.1**	**0.3**	**0.2**	**0.6**	**0.2**	**0.1**
Reactor Coolant System Leakage	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**
Maximum leakage	0.023	0.008	0.017	0.004	0.004	0.017	0.004	0.031	0.015	0.013	0.032	0.048
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.2**	**0.1**	**0.2**	**0**	**0**	**0.2**	**0**	**0.3**	**0.2**	**0.1**	**0.3**	**0.5**

Licensee Comments: none

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	20.0	35.0	26.0	20.0	26.0	28.0	25.0	27.0
Total opportunities	21.0	35.0	26.0	21.0	26.0	31.0	25.0	27.0
Indicator value	**98.3%**	**98.3%**	**99.3%**	**98.8%**	**98.8%**	**97.6%**	**97.5%**	**97.6%**

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	129.0	129.0	131.0	132.0	132.0	132.0	130.0	128.0
Total Key personnel	129.0	129.0	131.0	132.0	132.0	132.0	130.0	128.0
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	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful siren-tests	552	474	553	474	553	474	553	474
Total sirens-tests	553	474	553	474	553	474	553	474
Indicator value	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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

Millstone 2

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	1.0	0	1.0	0	0
Critical hours	2159.0	2184.0	2208.0	2170.4	2122.6	1138.4	2130.4	2209.0
Indicator value	**0**	**0**	**0**	**0.8**	**0.8**	**1.8**	**1.9**	**0.9**

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	1.0	0
Critical hours	2159.0	2184.0	2208.0	2170.4	2122.6	1138.4	2130.4	2209.0
Indicator value	**0**	**0**	**0**	**0**	**1.6**	**1.8**	**2.8**	**2.8**

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	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 > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Safety System Functional Failures	0	1	0	0	0	1	0	0
Indicator value	**1**	**2**	**2**	**1**	**1**	**1**	**1**	**1**

Licensee Comments:

2Q/14: LER 2014-003-00, Loss of Safety Function Due to Inoperable Enclosure Building

2Q/13: LER 2013-002-00, Turbine Driven Auxiliary Feedwater Pump HELB Door Left Open During Surveillance Test

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)	6.96E-08	4.03E-08	1.59E-08	1.92E-08	3.19E-08	2.68E-08	2.49E-08	4.51E-08
URI (ΔCDF)	2.24E-07	2.34E-07	2.48E-07	2.68E-07	2.80E-07	2.90E-07	3.05E-07	4.18E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.90E-07**	**2.70E-07**	**2.60E-07**	**2.90E-07**	**3.10E-07**	**3.20E-07**	**3.30E-07**	**4.60E-07**

Licensee Comments:

4Q/14: Changed PRA Parameter(s). Updated the 'B' baseline unavailability effective for the 4th quarter, to remove one overhaul due to only one overhaul being performed in the 3 year period. This is consistent with assumptions in the Basis Document.

3Q/14: Updated the 'B' baseline unavailability to remove one overhaul due to only one overhaul being performed in the 3 year period. This is consistent with assumptions in the Basis Document.

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

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)	-6.38E-08	-6.39E-08	-6.39E-08	-6.30E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08
URI (ΔCDF)	1.52E-07	1.52E-07	1.52E-07	-4.65E-08	-4.65E-08	-4.38E-08	-4.32E-08	-4.21E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.90E-08**	**8.80E-08**	**8.80E-08**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

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)	-8.94E-08	-9.83E-08	-9.83E-08	-9.84E-08	-9.82E-08	-6.75E-08	-5.67E-08	-5.65E-08
URI (ΔCDF)	-1.58E-07	-1.53E-07	-1.53E-07	-1.49E-07	-1.49E-07	-1.53E-07	-1.52E-07	-1.51E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.50E-07**	**-2.50E-07**	**-2.50E-07**	**-2.50E-07**	**-2.50E-07**	**-2.20E-07**	**-2.10E-07**	**-2.10E-07**

Licensee Comments:

2Q/14: A condition report on the B motor driven Auxiliary Feedwater pump was written in April 2014. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	-2.16E-10	-1.63E-10	-2.16E-10	-2.16E-10	-2.16E-10	-2.16E-10	-2.16E-10	-5.84E-11
URI (ΔCDF)	-1.27E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.38E-08	-1.23E-08	-1.23E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	6.34E-09	6.24E-09	6.24E-09	6.23E-09	6.24E-09	5.24E-09	-2.96E-09	-2.96E-09
URI (ΔCDF)	-1.55E-07	-1.54E-07	-1.54E-07	-1.54E-07	-1.54E-07	-1.55E-07	-1.55E-07	-1.55E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.60E-07**	**-1.60E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

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	0.001190	0.001090	0.001600	0.001210	0.001180	0.001280	0.001230	0.001330	0.001320	0.001410	0.001450	0.001520
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**
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	0.001540	0.001550	0.001960	0.001250	0.000713	0.000820	0.000873	0.000907	0.001020	0.000972	0.000973	0.000988
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**
Maximum leakage	0.052	0.017	0.026	0.010	0.030	0.024	0.059	0.020	0.009	0.023	0.008	0.017
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.5**	**0.2**	**0.3**	**0.1**	**0.3**	**0.2**	**0.6**	**0.2**	**0.1**	**0.2**	**0.1**	**0.2**
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	0.004	0.004	0.017	0.004	0.031	0.015	0.013	0.032	0.048	0.096	0.005	0.008
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0**	**0**	**0.2**	**0**	**0.3**	**0.2**	**0.1**	**0.3**	**0.5**	**1.0**	**0.1**	**0.1**

Licensee Comments: none

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	35.0	26.0	20.0	26.0	28.0	25.0	27.0	6.0
Total opportunities	35.0	26.0	21.0	26.0	31.0	25.0	27.0	6.0
Indicator value	**98.3%**	**99.3%**	**98.8%**	**98.8%**	**97.6%**	**97.5%**	**97.6%**	**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	129.0	131.0	132.0	132.0	132.0	130.0	128.0	126.0
Total Key personnel	129.0	131.0	132.0	132.0	132.0	130.0	128.0	126.0
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	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful siren-tests	474	553	474	553	474	553	474	553
Total sirens-tests	474	553	474	553	474	553	474	553
Indicator value	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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

Millstone 2

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	1.0	0	1.0	0	0	0
Critical hours	2184.0	2208.0	2170.4	2122.6	1138.4	2130.4	2209.0	2159.0
Indicator value	**0**	**0**	**0.8**	**0.8**	**1.8**	**1.9**	**0.9**	**0.9**

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	1.0	0	0
Critical hours	2184.0	2208.0	2170.4	2122.6	1138.4	2130.4	2209.0	2159.0
Indicator value	**0**	**0**	**0**	**1.6**	**1.8**	**2.8**	**2.8**	**0.9**

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	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 > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Safety System Functional Failures	1	0	0	0	1	0	0	0
Indicator value	**2**	**2**	**1**	**1**	**1**	**1**	**1**	**1**

Licensee Comments:

2Q/14: LER 2014-003-00, Loss of Safety Function Due to Inoperable Enclosure Building

2Q/13: LER 2013-002-00, Turbine Driven Auxiliary Feedwater Pump HELB Door Left Open During Surveillance Test

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	4.03E-08	1.59E-08	1.92E-08	3.19E-08	2.68E-08	2.49E-08	4.51E-08	4.84E-08
URI (ΔCDF)	2.34E-07	2.48E-07	2.68E-07	2.80E-07	2.90E-07	3.05E-07	4.18E-07	4.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.70E-07**	**2.60E-07**	**2.90E-07**	**3.10E-07**	**3.20E-07**	**3.30E-07**	**4.60E-07**	**4.80E-07**

Licensee Comments:

4Q/14: Changed PRA Parameter(s). Updated the 'B' baseline unavailability effective for the 4th quarter, to remove one overhaul due to only one overhaul being performed in the 3 year period. This is consistent with assumptions in the Basis Document.

3Q/14: Updated the 'B' baseline unavailability to remove one overhaul due to only one overhaul being performed in the 3 year period. This is consistent with assumptions in the Basis Document.

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

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)	-6.39E-08	-6.39E-08	-6.30E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08
URI (ΔCDF)	1.52E-07	1.52E-07	-4.65E-08	-4.65E-08	-4.38E-08	-4.32E-08	-4.21E-08	-4.15E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.80E-08**	**8.80E-08**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

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)	-9.83E-08	-9.83E-08	-9.84E-08	-9.82E-08	-6.75E-08	-5.67E-08	-5.65E-08	-8.57E-08
URI (ΔCDF)	-1.53E-07	-1.53E-07	-1.49E-07	-1.49E-07	-1.53E-07	-1.52E-07	-1.51E-07	-1.51E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.50E-07**	**-2.50E-07**	**-2.50E-07**	**-2.50E-07**	**-2.20E-07**	**-2.10E-07**	**-2.10E-07**	**-2.40E-07**

Licensee Comments:

2Q/14: A condition report on the B motor driven Auxiliary Feedwater pump was written in April 2014. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	-1.63E-10	-2.16E-10	-2.16E-10	-2.16E-10	-2.16E-10	-2.16E-10	-5.84E-11	-5.46E-11
URI (ΔCDF)	-1.40E-08	-1.40E-08	-1.40E-08	-1.38E-08	-1.23E-08	-1.23E-08	-1.20E-08	-1.18E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	6.24E-09	6.24E-09	6.23E-09	6.24E-09	5.24E-09	-2.96E-09	-2.96E-09	-2.96E-09
URI (ΔCDF)	-1.54E-07	-1.54E-07	-1.54E-07	-1.54E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**
Maximum activity	0.001210	0.001180	0.001280	0.001230	0.001330	0.001320	0.001410	0.001450	0.001520	0.001540	0.001550	0.001960
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**
Reactor Coolant System Activity	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**
Maximum activity	0.001250	0.000713	0.000820	0.000873	0.000907	0.001020	0.000972	0.000973	0.000988	0.001100	0.001080	0.001090
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**
Maximum leakage	0.010	0.030	0.024	0.059	0.020	0.009	0.023	0.008	0.017	0.004	0.004	0.017
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**0.3**	**0.2**	**0.6**	**0.2**	**0.1**	**0.2**	**0.1**	**0.2**	**0**	**0**	**0.2**
Reactor Coolant System Leakage	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**
Maximum leakage	0.004	0.031	0.015	0.013	0.032	0.048	0.096	0.005	0.008	0.011	0.005	0.012
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0**	**0.3**	**0.2**	**0.1**	**0.3**	**0.5**	**1.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

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	26.0	20.0	26.0	28.0	25.0	27.0	6.0	23.0
Total opportunities	26.0	21.0	26.0	31.0	25.0	27.0	6.0	23.0
Indicator value	**99.3%**	**98.8%**	**98.8%**	**97.6%**	**97.5%**	**97.6%**	**98.0%**	**97.8%**

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	131.0	132.0	132.0	132.0	130.0	128.0	126.0	127.0
Total Key personnel	131.0	132.0	132.0	132.0	130.0	128.0	126.0	127.0
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	553	474	553	474	553	474	553	474
Total sirens-tests	553	474	553	474	553	474	553	474
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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

Millstone 2

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	1.0	0	1.0	0	0	0	0
Critical hours	2208.0	2170.4	2122.6	1138.4	2130.4	2209.0	2159.0	2184.0
Indicator value	**0**	**0.8**	**0.8**	**1.8**	**1.9**	**0.9**	**0.9**	**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	1.0	0	0	0
Critical hours	2208.0	2170.4	2122.6	1138.4	2130.4	2209.0	2159.0	2184.0
Indicator value	**0**	**0**	**1.6**	**1.8**	**2.8**	**2.8**	**0.9**	**0.8**

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	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 > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Safety System Functional Failures	0	0	0	1	0	0	0	0
Indicator value	**2**	**1**	**1**	**1**	**1**	**1**	**1**	**0**

Licensee Comments:

2Q/14: LER 2014-003-00, Loss of Safety Function Due to Inoperable Enclosure Building

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)	1.59E-08	1.92E-08	3.19E-08	2.68E-08	2.49E-08	4.51E-08	4.84E-08	2.46E-08
URI (ΔCDF)	2.48E-07	2.68E-07	2.80E-07	2.90E-07	3.05E-07	4.18E-07	4.30E-07	4.72E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.60E-07**	**2.90E-07**	**3.10E-07**	**3.20E-07**	**3.30E-07**	**4.60E-07**	**4.80E-07**	**7.20E-08**

Licensee Comments:

4Q/14: Changed PRA Parameter(s). Updated the 'B' baseline unavailability effective for the 4th quarter, to remove one overhaul due to only one overhaul being performed in the 3 year period. This is consistent with assumptions in the Basis Document.

3Q/14: Updated the 'B' baseline unavailability to remove one overhaul due to only one overhaul being performed in the 3 year period. This is consistent with assumptions in the Basis Document.

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

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)	-6.39E-08	-6.30E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08
URI (ΔCDF)	1.52E-07	-4.65E-08	-4.65E-08	-4.38E-08	-4.32E-08	-4.21E-08	-4.15E-08	-4.15E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.80E-08**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	-9.83E-08	-9.84E-08	-9.82E-08	-6.75E-08	-5.67E-08	-5.65E-08	-8.57E-08	-8.56E-08
URI (ΔCDF)	-1.53E-07	-1.49E-07	-1.49E-07	-1.53E-07	-1.52E-07	-1.51E-07	-1.51E-07	-1.51E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.50E-07**	**-2.50E-07**	**-2.50E-07**	**-2.20E-07**	**-2.10E-07**	**-2.10E-07**	**-2.40E-07**	**-2.40E-07**

Licensee Comments:

2Q/14: A condition report on the B motor driven Auxiliary Feedwater pump was written in April 2014. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	-2.16E-10	-2.16E-10	-2.16E-10	-2.16E-10	-2.16E-10	-5.84E-11	-5.46E-11	2.05E-11
URI (ΔCDF)	-1.40E-08	-1.40E-08	-1.38E-08	-1.23E-08	-1.23E-08	-1.20E-08	-1.18E-08	-1.18E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	6.24E-09	6.23E-09	6.24E-09	5.24E-09	-2.96E-09	-2.96E-09	-2.96E-09	-2.96E-09
URI (ΔCDF)	-1.54E-07	-1.54E-07	-1.54E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**

Licensee Comments:

3Q/13: PRA parameters were updated in the 2nd quarter 2013 based on a model revision issued in the 1st quarter 2013. No changes to the threshold occurred.

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**
Maximum activity	0.001230	0.001330	0.001320	0.001410	0.001450	0.001520	0.001540	0.001550	0.001960	0.001250	0.000713	0.000820
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**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	0.000873	0.000907	0.001020	0.000972	0.000973	0.000988	0.001100	0.001080	0.001090	0.001140	0.001210	0.001190
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**
Maximum leakage	0.059	0.020	0.009	0.023	0.008	0.017	0.004	0.004	0.017	0.004	0.031	0.015
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.6**	**0.2**	**0.1**	**0.2**	**0.1**	**0.2**	**0**	**0**	**0.2**	**0**	**0.3**	**0.2**
Reactor Coolant System Leakage	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**
Maximum leakage	0.013	0.032	0.048	0.096	0.005	0.008	0.011	0.005	0.012	0.009	0.033	0.005
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**0.3**	**0.5**	**1.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.3**	**0.1**

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	20.0	26.0	28.0	25.0	27.0	6.0	23.0	36.0
Total opportunities	21.0	26.0	31.0	25.0	27.0	6.0	23.0	36.0
Indicator value	**98.8%**	**98.8%**	**97.6%**	**97.5%**	**97.6%**	**98.0%**	**97.8%**	**97.9%**

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	132.0	132.0	132.0	130.0	128.0	126.0	127.0	123.0
Total Key personnel	132.0	132.0	132.0	130.0	128.0	126.0	127.0	123.0
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	474	553	474	553	474	553	474	553
Total sirens-tests	474	553	474	553	474	553	474	553
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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

Millstone 2

3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned scrams	1.0	0	1.0	0	0	0	0	0
Critical hours	2170.4	2122.6	1138.4	2130.4	2209.0	2159.0	2184.0	2208.0
Indicator value	**0.8**	**0.8**	**1.8**	**1.9**	**0.9**	**0.9**	**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	1.0	0	0	0	0
Critical hours	2170.4	2122.6	1138.4	2130.4	2209.0	2159.0	2184.0	2208.0
Indicator value	**0**	**1.6**	**1.8**	**2.8**	**2.8**	**0.9**	**0.8**	**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	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 > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Safety System Functional Failures	0	0	1	0	0	0	0	1
Indicator value	**1**	**1**	**1**	**1**	**1**	**1**	**0**	**1**

Licensee Comments:

3Q/15: LER 2015-002-00, Degraded Emergency Core Cooling System Check Valve

2Q/14: LER 2014-003-00, Loss of Safety Function Due to Inoperable Enclosure Building

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	1.92E-08	3.19E-08	2.68E-08	2.49E-08	4.51E-08	4.84E-08	2.46E-08	1.14E-08
URI (ΔCDF)	2.68E-07	2.80E-07	2.90E-07	3.05E-07	4.18E-07	4.30E-07	4.72E-08	-2.49E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.90E-07**	**3.10E-07**	**3.20E-07**	**3.30E-07**	**4.60E-07**	**4.80E-07**	**7.20E-08**	**-1.30E-08**

Licensee Comments:

4Q/14: Changed PRA Parameter(s). Updated the 'B' baseline unavailability effective for the 4th quarter, to remove one overhaul due to only one overhaul being performed in the 3 year period. This is consistent with assumptions in the Basis Document.

3Q/14: Updated the 'B' baseline unavailability to remove one overhaul due to only one overhaul being performed in the 3 year period. This is consistent with assumptions in the Basis Document.

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)	-6.30E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08
URI (ΔCDF)	-4.65E-08	-4.65E-08	-4.38E-08	-4.32E-08	-4.21E-08	-4.15E-08	-4.15E-08	-4.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	-9.84E-08	-9.82E-08	-6.75E-08	-5.67E-08	-5.65E-08	-8.57E-08	-8.56E-08	-8.61E-08
URI (ΔCDF)	-1.49E-07	-1.49E-07	-1.53E-07	-1.52E-07	-1.51E-07	-1.51E-07	-1.51E-07	-1.47E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.50E-07**	**-2.50E-07**	**-2.20E-07**	**-2.10E-07**	**-2.10E-07**	**-2.40E-07**	**-2.40E-07**	**-2.30E-07**

Licensee Comments:

2Q/14: A condition report on the B motor driven Auxiliary Feedwater pump was written in April 2014. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	-2.16E-10	-2.16E-10	-2.16E-10	-2.16E-10	-5.84E-11	-5.46E-11	2.05E-11	1.61E-11
URI (ΔCDF)	-1.40E-08	-1.38E-08	-1.23E-08	-1.23E-08	-1.20E-08	-1.18E-08	-1.18E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.40E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	6.23E-09	6.24E-09	5.24E-09	-2.96E-09	-2.96E-09	-2.96E-09	-2.96E-09	-2.69E-09
URI (ΔCDF)	-1.54E-07	-1.54E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-07**	**-1.50E-07**	**-1.50E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**

Licensee Comments: none

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	0.001410	0.001450	0.001520	0.001540	0.001550	0.001960	0.001250	0.000713	0.000820	0.000873	0.000907	0.001020
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

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	0.000972	0.000973	0.000988	0.001100	0.001080	0.001090	0.001140	0.001210	0.001190	0.001270	0.001430	0.001390
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum leakage	0.023	0.008	0.017	0.004	0.004	0.017	0.004	0.031	0.015	0.013	0.032	0.048
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.2**	**0.1**	**0.2**	**0**	**0**	**0.2**	**0**	**0.3**	**0.2**	**0.1**	**0.3**	**0.5**
Reactor Coolant System Leakage	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**
Maximum leakage	0.096	0.005	0.008	0.011	0.005	0.012	0.009	0.033	0.005	0.008	0.021	0.038
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.3**	**0.1**	**0.1**	**0.2**	**0.4**

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	26.0	28.0	25.0	27.0	6.0	23.0	36.0	30.0
Total opportunities	26.0	31.0	25.0	27.0	6.0	23.0	36.0	32.0
Indicator value	**98.8%**	**97.6%**	**97.5%**	**97.6%**	**98.0%**	**97.8%**	**97.9%**	**97.6%**

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	132.0	132.0	130.0	128.0	126.0	127.0	123.0	120.0
Total Key personnel	132.0	132.0	130.0	128.0	126.0	127.0	123.0	120.0
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	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful siren-tests	553	474	553	474	553	474	553	528
Total sirens-tests	553	474	553	474	553	474	553	528
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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

Millstone 2

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	1.0	0	0	0	0	0	1.0
Critical hours	2122.6	1138.4	2130.4	2209.0	2159.0	2184.0	2208.0	1334.0
Indicator value	**0.8**	**1.8**	**1.9**	**0.9**	**0.9**	**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	1.0	0	0	0	0	2.0
Critical hours	2122.6	1138.4	2130.4	2209.0	2159.0	2184.0	2208.0	1334.0
Indicator value	**1.6**	**1.8**	**2.8**	**2.8**	**0.9**	**0.8**	**0**	**1.8**

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	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 > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Safety System Functional Failures	0	1	0	0	0	0	1	0
Indicator value	**1**	**1**	**1**	**1**	**1**	**0**	**1**	**1**

Licensee Comments:

3Q/15: LER 2015-002-00, Degraded Emergency Core Cooling System Check Valve

2Q/14: LER 2014-003-00, Loss of Safety Function Due to Inoperable Enclosure Building

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)	3.19E-08	2.68E-08	2.49E-08	4.51E-08	4.84E-08	2.46E-08	1.14E-08	7.91E-09
URI (ΔCDF)	2.80E-07	2.90E-07	3.05E-07	4.18E-07	4.30E-07	4.72E-08	-2.49E-08	-2.44E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.10E-07**	**3.20E-07**	**3.30E-07**	**4.60E-07**	**4.80E-07**	**7.20E-08**	**-1.30E-08**	**-1.60E-08**

Licensee Comments:

4Q/14: Changed PRA Parameter(s). Updated the 'B' baseline unavailability effective for the 4th quarter, to remove one overhaul due to only one overhaul being performed in the 3 year period. This is consistent with assumptions in the Basis Document.

3Q/14: Updated the 'B' baseline unavailability to remove one overhaul due to only one overhaul being performed in the 3 year period. This is consistent with assumptions in the Basis Document.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08
URI (ΔCDF)	-4.65E-08	-4.38E-08	-4.32E-08	-4.21E-08	-4.15E-08	-4.15E-08	-4.12E-08	-4.18E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	-9.82E-08	-6.75E-08	-5.67E-08	-5.65E-08	-8.57E-08	-8.56E-08	-8.61E-08	-8.60E-08
URI (ΔCDF)	-1.49E-07	-1.53E-07	-1.52E-07	-1.51E-07	-1.51E-07	-1.51E-07	-1.47E-07	-1.47E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.50E-07**	**-2.20E-07**	**-2.10E-07**	**-2.10E-07**	**-2.40E-07**	**-2.40E-07**	**-2.30E-07**	**-2.30E-07**

Licensee Comments:

2Q/14: A condition report on the B motor driven Auxiliary Feedwater pump was written in April 2014. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

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)	-2.16E-10	-2.16E-10	-2.16E-10	-5.84E-11	-5.46E-11	2.05E-11	1.61E-11	1.33E-11
URI (ΔCDF)	-1.38E-08	-1.23E-08	-1.23E-08	-1.20E-08	-1.18E-08	-1.18E-08	-1.20E-08	-1.23E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	6.24E-09	5.24E-09	-2.96E-09	-2.96E-09	-2.96E-09	-2.96E-09	-2.69E-09	2.54E-08
URI (ΔCDF)	-1.54E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-07**	**-1.50E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.30E-07**

Licensee Comments: none

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	0.001540	0.001550	0.001960	0.001250	0.000713	0.000820	0.000873	0.000907	0.001020	0.000972	0.000973	0.000988
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.001100	0.001080	0.001090	0.001140	0.001210	0.001190	0.001270	0.001430	0.001390	0.001260	0.000768	0.000832
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**
Maximum leakage	0.004	0.004	0.017	0.004	0.031	0.015	0.013	0.032	0.048	0.096	0.005	0.008
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0**	**0**	**0.2**	**0**	**0.3**	**0.2**	**0.1**	**0.3**	**0.5**	**1.0**	**0.1**	**0.1**
Reactor Coolant System Leakage	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**
Maximum leakage	0.011	0.005	0.012	0.009	0.033	0.005	0.008	0.021	0.038	0.023	0.010	0.007
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.3**	**0.1**	**0.1**	**0.2**	**0.4**	**0.2**	**0.1**	**0.1**

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	28.0	25.0	27.0	6.0	23.0	36.0	30.0	24.0
Total opportunities	31.0	25.0	27.0	6.0	23.0	36.0	32.0	28.0
Indicator value	**97.6%**	**97.5%**	**97.6%**	**98.0%**	**97.8%**	**97.9%**	**97.6%**	**95.7%**

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	132.0	130.0	128.0	126.0	127.0	123.0	120.0	120.0
Total Key personnel	132.0	130.0	128.0	126.0	127.0	123.0	120.0	120.0
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	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful siren-tests	474	553	474	553	474	553	528	499
Total sirens-tests	474	553	474	553	474	553	528	499
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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

Millstone 2

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	1.0	0	0	0	0	0	1.0	0
Critical hours	1138.4	2130.4	2209.0	2159.0	2184.0	2208.0	1334.0	2183.0
Indicator value	**1.8**	**1.9**	**0.9**	**0.9**	**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	1.0	0	0	0	0	2.0	0
Critical hours	1138.4	2130.4	2209.0	2159.0	2184.0	2208.0	1334.0	2183.0
Indicator value	**1.8**	**2.8**	**2.8**	**0.9**	**0.8**	**0**	**1.8**	**1.8**

Licensee Comments: none

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	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 > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Safety System Functional Failures	1	0	0	0	0	1	0	0
Indicator value	**1**	**1**	**1**	**1**	**0**	**1**	**1**	**1**

Licensee Comments:

3Q/15: LER 2015-002-00, Degraded Emergency Core Cooling System Check Valve

2Q/14: LER 2014-003-00, Loss of Safety Function Due to Inoperable Enclosure Building

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)	2.68E-08	2.49E-08	4.51E-08	4.84E-08	2.46E-08	1.14E-08	7.91E-09	-1.14E-08
URI (ΔCDF)	2.90E-07	3.05E-07	4.18E-07	4.30E-07	4.72E-08	-2.49E-08	-2.44E-08	-2.49E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.20E-07**	**3.30E-07**	**4.60E-07**	**4.80E-07**	**7.20E-08**	**-1.30E-08**	**-1.60E-08**	**-3.60E-08**

Licensee Comments:

4Q/14: Changed PRA Parameter(s). Updated the 'B' baseline unavailability effective for the 4th quarter, to remove one overhaul due to only one overhaul being performed in the 3 year period. This is consistent with assumptions in the Basis Document.

3Q/14: Updated the 'B' baseline unavailability to remove one overhaul due to only one overhaul being performed in the 3 year period. This is consistent with assumptions in the Basis Document.

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)	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08
URI (ΔCDF)	-4.38E-08	-4.32E-08	-4.21E-08	-4.15E-08	-4.15E-08	-4.12E-08	-4.18E-08	-4.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	-6.75E-08	-5.67E-08	-5.65E-08	-8.57E-08	-8.56E-08	-8.61E-08	-8.60E-08	-8.75E-08
URI (ΔCDF)	-1.53E-07	-1.52E-07	-1.51E-07	-1.51E-07	-1.51E-07	-1.47E-07	-1.47E-07	-1.48E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.20E-07**	**-2.10E-07**	**-2.10E-07**	**-2.40E-07**	**-2.40E-07**	**-2.30E-07**	**-2.30E-07**	**-2.40E-07**

Licensee Comments:

2Q/14: A condition report on the B motor driven Auxiliary Feedwater pump was written in April 2014. This condition report is under review. If this event is determined to be a failure the 2nd quarter values will be updated in the 3rd quarter.

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)	-2.16E-10	-2.16E-10	-5.84E-11	-5.46E-11	2.05E-11	1.61E-11	1.33E-11	1.33E-10
URI (ΔCDF)	-1.23E-08	-1.23E-08	-1.20E-08	-1.18E-08	-1.18E-08	-1.20E-08	-1.23E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	5.24E-09	-2.96E-09	-2.96E-09	-2.96E-09	-2.96E-09	-2.69E-09	2.54E-08	3.39E-08
URI (ΔCDF)	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.30E-07**	**-1.20E-07**

Licensee Comments: none

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	0.001250	0.000713	0.000820	0.000873	0.000907	0.001020	0.000972	0.000973	0.000988	0.001100	0.001080	0.001090
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.001140	0.001210	0.001190	0.001270	0.001430	0.001390	0.001260	0.000768	0.000832	0.000913	0.000882	0.000979
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**
Maximum leakage	0.004	0.031	0.015	0.013	0.032	0.048	0.096	0.005	0.008	0.011	0.005	0.012
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0**	**0.3**	**0.2**	**0.1**	**0.3**	**0.5**	**1.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Reactor Coolant System Leakage	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**
Maximum leakage	0.009	0.033	0.005	0.008	0.021	0.038	0.023	0.010	0.007	0.006	0.008	0.009
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**0.3**	**0.1**	**0.1**	**0.2**	**0.4**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

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	25.0	27.0	6.0	23.0	36.0	30.0	24.0	36.0
Total opportunities	25.0	27.0	6.0	23.0	36.0	32.0	28.0	37.0
Indicator value	**97.5%**	**97.6%**	**98.0%**	**97.8%**	**97.9%**	**97.6%**	**95.7%**	**96.7%**

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	130.0	128.0	126.0	127.0	123.0	120.0	120.0	120.0
Total Key personnel	130.0	128.0	126.0	127.0	123.0	120.0	120.0	120.0
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/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful siren-tests	553	474	553	474	553	528	499	553
Total sirens-tests	553	474	553	474	553	528	499	553
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/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

Millstone 2

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	2130.4	2209.0	2159.0	2184.0	2208.0	1334.0	2183.0	2184.0
Indicator value	**1.9**	**0.9**	**0.9**	**0**	**0**	**0.9**	**0.9**	**0.9**

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	1.0	0	0	0	0	2.0	0	0
Critical hours	2130.4	2209.0	2159.0	2184.0	2208.0	1334.0	2183.0	2184.0
Indicator value	**2.8**	**2.8**	**0.9**	**0.8**	**0**	**1.8**	**1.8**	**1.8**

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	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 > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Safety System Functional Failures	0	0	0	0	1	0	0	1
Indicator value	**1**	**1**	**1**	**0**	**1**	**1**	**1**	**2**

Licensee Comments:

2Q/16: LER 2016-001-00, Turbine Driven Auxiliary Feedwater Pump Room HELB Door Left Open

3Q/15: LER 2015-002-00, Degraded Emergency Core Cooling System Check Valve

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)	2.49E-08	4.51E-08	4.84E-08	2.46E-08	1.14E-08	7.91E-09	-1.14E-08	-1.14E-08
URI (ΔCDF)	3.05E-07	4.18E-07	4.30E-07	4.72E-08	-2.49E-08	-2.44E-08	-2.49E-08	-2.44E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.30E-07**	**4.60E-07**	**4.80E-07**	**7.20E-08**	**-1.30E-08**	**-1.60E-08**	**-3.60E-08**	**-3.60E-08**

Licensee Comments:

4Q/14: Changed PRA Parameter(s). Updated the 'B' baseline unavailability effective for the 4th quarter, to remove one overhaul due to only one overhaul being performed in the 3 year period. This is consistent with assumptions in the Basis Document.

3Q/14: Updated the 'B' baseline unavailability to remove one overhaul due to only one overhaul being performed in the 3 year period. This is consistent with assumptions in the Basis Document.

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)	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08
URI (ΔCDF)	-4.32E-08	-4.21E-08	-4.15E-08	-4.15E-08	-4.12E-08	-4.18E-08	-4.12E-08	-4.06E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.00E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	-5.67E-08	-5.65E-08	-8.57E-08	-8.56E-08	-8.61E-08	-8.60E-08	-8.75E-08	-8.77E-08
URI (ΔCDF)	-1.52E-07	-1.51E-07	-1.51E-07	-1.51E-07	-1.47E-07	-1.47E-07	-1.48E-07	-1.48E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-07**	**-2.10E-07**	**-2.40E-07**	**-2.40E-07**	**-2.30E-07**	**-2.30E-07**	**-2.40E-07**	**-2.40E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	-2.16E-10	-5.84E-11	-5.46E-11	2.05E-11	1.61E-11	1.33E-11	1.33E-10	-1.28E-10
URI (ΔCDF)	-1.23E-08	-1.20E-08	-1.18E-08	-1.18E-08	-1.20E-08	-1.23E-08	-1.20E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	-2.96E-09	-2.96E-09	-2.96E-09	-2.96E-09	-2.69E-09	2.54E-08	3.39E-08	3.46E-08
URI (ΔCDF)	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.30E-07**	**-1.20E-07**	**-1.20E-07**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**
Maximum activity	0.000873	0.000907	0.001020	0.000972	0.000973	0.000988	0.001100	0.001080	0.001090	0.001140	0.001210	0.001190
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Reactor Coolant System Activity	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**	**4/16**	**5/16**	**6/16**
Maximum activity	0.001270	0.001430	0.001390	0.001260	0.000768	0.000832	0.000913	0.000882	0.000979	0.000971	0.001020	0.001030
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**
Maximum leakage	0.013	0.032	0.048	0.096	0.005	0.008	0.011	0.005	0.012	0.009	0.033	0.005
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**0.3**	**0.5**	**1.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.3**	**0.1**
Reactor Coolant System Leakage	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**	**4/16**	**5/16**	**6/16**
Maximum leakage	0.008	0.021	0.038	0.023	0.010	0.007	0.006	0.008	0.009	0.015	0.018	0.038
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**0.2**	**0.4**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.4**

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	27.0	6.0	23.0	36.0	30.0	24.0	36.0	16.0
Total opportunities	27.0	6.0	23.0	36.0	32.0	28.0	37.0	17.0
Indicator value	**97.6%**	**98.0%**	**97.8%**	**97.9%**	**97.6%**	**95.7%**	**96.7%**	**96.1%**

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	128.0	126.0	127.0	123.0	120.0	120.0	120.0	114.0
Total Key personnel	128.0	126.0	127.0	123.0	120.0	120.0	120.0	114.0
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/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful siren-tests	474	553	474	553	528	499	553	474
Total sirens-tests	474	553	474	553	528	499	553	474
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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

Millstone 2

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	1.0
Critical hours	2209.0	2159.0	2184.0	2208.0	1334.0	2183.0	2184.0	2168.2
Indicator value	**0.9**	**0.9**	**0**	**0**	**0.9**	**0.9**	**0.9**	**1.8**

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	2.0	0	0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	1334.0	2183.0	2184.0	2168.2
Indicator value	**2.8**	**0.9**	**0.8**	**0**	**1.8**	**1.8**	**1.8**	**1.8**

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	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 > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Safety System Functional Failures	0	0	0	1	0	0	1	0
Indicator value	**1**	**1**	**0**	**1**	**1**	**1**	**2**	**1**

Licensee Comments:

2Q/16: LER 2016-001-00, Turbine Driven Auxiliary Feedwater Pump Room HELB Door Left Open

3Q/15: LER 2015-002-00, Degraded Emergency Core Cooling System Check Valve

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)	4.51E-08	4.84E-08	2.46E-08	1.14E-08	7.91E-09	-1.14E-08	-1.14E-08	-1.14E-08
URI (ΔCDF)	4.18E-07	4.30E-07	4.72E-08	-2.49E-08	-2.44E-08	-2.49E-08	-2.44E-08	-2.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.60E-07**	**4.80E-07**	**7.20E-08**	**-1.30E-08**	**-1.60E-08**	**-3.60E-08**	**-3.60E-08**	**-3.40E-08**

Licensee Comments:

4Q/14: Changed PRA Parameter(s). Updated the 'B' baseline unavailability effective for the 4th quarter, to remove one overhaul due to only one overhaul being performed in the 3 year period. This is consistent with assumptions in the Basis Document.

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)	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08
URI (ΔCDF)	-4.21E-08	-4.15E-08	-4.15E-08	-4.12E-08	-4.18E-08	-4.12E-08	-4.06E-08	-4.09E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.00E-07**	**-1.00E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	-5.65E-08	-8.57E-08	-8.56E-08	-8.61E-08	-8.60E-08	-8.75E-08	-8.77E-08	-5.28E-08
URI (ΔCDF)	-1.51E-07	-1.51E-07	-1.51E-07	-1.47E-07	-1.47E-07	-1.48E-07	-1.48E-07	-1.48E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-07**	**-2.40E-07**	**-2.40E-07**	**-2.30E-07**	**-2.30E-07**	**-2.40E-07**	**-2.40E-07**	**-2.00E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	-5.84E-11	-5.46E-11	2.05E-11	1.61E-11	1.33E-11	1.33E-10	-1.28E-10	-5.34E-11
URI (ΔCDF)	-1.20E-08	-1.20E-08	-1.20E-08	-1.23E-08	-1.25E-08	-1.23E-08	-1.23E-08	-1.23E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**

Licensee Comments:

3Q/16: The first quarter 2015 demand data was corrected to include an additional valve demand. This did not result in a change to the calculated MSPI. It did not result in the indicator value crossing the GREEN/WHITE threshold.

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	-2.96E-09	-2.96E-09	-2.96E-09	-2.69E-09	2.54E-08	3.39E-08	3.46E-08	7.12E-08
URI (ΔCDF)	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.30E-07**	**-1.20E-07**	**-1.20E-07**	**-8.40E-08**

Licensee Comments: none

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	0.000972	0.000973	0.000988	0.001100	0.001080	0.001090	0.001140	0.001210	0.001190	0.001270	0.001430	0.001390
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.001260	0.000768	0.000832	0.000913	0.000882	0.000979	0.000971	0.001020	0.001030	0.001050	0.001190	0.001110
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum leakage	0.096	0.005	0.008	0.011	0.005	0.012	0.009	0.033	0.005	0.008	0.021	0.038
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.3**	**0.1**	**0.1**	**0.2**	**0.4**
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	0.023	0.010	0.007	0.006	0.008	0.009	0.015	0.018	0.038	0.025	0.034	0.055
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.4**	**0.3**	**0.3**	**0.6**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful opportunities	6.0	23.0	36.0	30.0	24.0	36.0	16.0	31.0
Total opportunities	6.0	23.0	36.0	32.0	28.0	37.0	17.0	33.0
Indicator value	**98.0%**	**97.8%**	**97.9%**	**97.6%**	**95.7%**	**96.7%**	**96.1%**	**95.3%**

Licensee Comments: none

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	126.0	127.0	123.0	120.0	120.0	120.0	114.0	118.0
Total Key personnel	126.0	127.0	123.0	120.0	120.0	120.0	114.0	118.0
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	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful siren-tests	553	474	553	528	499	553	474	553
Total sirens-tests	553	474	553	528	499	553	474	553
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

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

Millstone 2

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	1.0	0
Critical hours	2159.0	2184.0	2208.0	1334.0	2183.0	2184.0	2168.2	2209.0
Indicator value	**0.9**	**0**	**0**	**0.9**	**0.9**	**0.9**	**1.8**	**0.8**

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	2.0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	1334.0	2183.0	2184.0	2168.2	2209.0
Indicator value	**0.9**	**0.8**	**0**	**1.8**	**1.8**	**1.8**	**1.8**	**0**

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	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 > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Safety System Functional Failures	0	0	1	0	0	1	0	0
Indicator value	**1**	**0**	**1**	**1**	**1**	**2**	**1**	**1**

Licensee Comments:

2Q/16: LER 2016-001-00, Turbine Driven Auxiliary Feedwater Pump Room HELB Door Left Open

3Q/15: LER 2015-002-00, Degraded Emergency Core Cooling System Check Valve

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	4.84E-08	2.46E-08	1.14E-08	7.91E-09	-1.14E-08	-1.14E-08	-1.14E-08	1.85E-09
URI (ΔCDF)	4.30E-07	4.72E-08	-2.49E-08	-2.44E-08	-2.49E-08	-2.44E-08	-2.27E-08	5.41E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.80E-07**	**7.20E-08**	**-1.30E-08**	**-1.60E-08**	**-3.60E-08**	**-3.60E-08**	**-3.40E-08**	**5.60E-08**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08
URI (ΔCDF)	-4.15E-08	-4.15E-08	-4.12E-08	-4.18E-08	-4.12E-08	-4.06E-08	-4.09E-08	-6.35E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.00E-07**	**-1.00E-07**	**-1.30E-07**

Licensee Comments:

4Q/16: Changed PRA Parameter(s). The generic common cause factor for the HPSI pumps was corrected in the fourth quarter. The error did not result in the indicator value crossing the green white threshold.

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)	-8.57E-08	-8.56E-08	-8.61E-08	-8.60E-08	-8.75E-08	-8.77E-08	-5.28E-08	-2.18E-08
URI (ΔCDF)	-1.51E-07	-1.51E-07	-1.47E-07	-1.47E-07	-1.48E-07	-1.48E-07	-1.48E-07	-1.48E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.40E-07**	**-2.40E-07**	**-2.30E-07**	**-2.30E-07**	**-2.40E-07**	**-2.40E-07**	**-2.00E-07**	**-1.70E-07**

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	-5.46E-11	2.05E-11	1.61E-11	1.33E-11	1.33E-10	-1.28E-10	-5.34E-11	-5.55E-11
URI (ΔCDF)	-1.20E-08	-1.20E-08	-1.23E-08	-1.25E-08	-1.23E-08	-1.23E-08	-1.23E-08	-1.23E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**

Licensee Comments:

3Q/16: The first quarter 2015 demand data was corrected to include an additional valve demand. This did not result in a change to the calculated MSPI. It did not result in the indicator value crossing the GREEN/WHITE threshold.

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)	-2.96E-09	-2.96E-09	-2.69E-09	2.54E-08	3.39E-08	3.46E-08	7.12E-08	7.10E-08
URI (ΔCDF)	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.53E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**	**-1.30E-07**	**-1.20E-07**	**-1.20E-07**	**-8.40E-08**	**-8.20E-08**

Licensee Comments:

4Q/16: Changed PRA Parameter(s). The generic common cause factor for the reactor building cooling water pumps was corrected in the fourth quarter. The error did not result in the indicator value crossing the green white threshold.

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	0.001100	0.001080	0.001090	0.001140	0.001210	0.001190	0.001270	0.001430	0.001390	0.001260	0.000768	0.000832
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.000913	0.000882	0.000979	0.000971	0.001020	0.001030	0.001050	0.001190	0.001110	0.001120	0.001180	0.001200
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**
Maximum leakage	0.011	0.005	0.012	0.009	0.033	0.005	0.008	0.021	0.038	0.023	0.010	0.007
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.3**	**0.1**	**0.1**	**0.2**	**0.4**	**0.2**	**0.1**	**0.1**
Reactor Coolant System Leakage	**1/16**	**2/16**	**3/16**	**4/16**	**5/16**	**6/16**	**7/16**	**8/16**	**9/16**	**10/16**	**11/16**	**12/16**
Maximum leakage	0.006	0.008	0.009	0.015	0.018	0.038	0.025	0.034	0.055	0.077	0.089	0.003
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.4**	**0.3**	**0.3**	**0.6**	**0.8**	**0.9**	**0**

Licensee Comments: none

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	23.0	36.0	30.0	24.0	36.0	16.0	31.0	25.0
Total opportunities	23.0	36.0	32.0	28.0	37.0	17.0	33.0	25.0
Indicator value	**97.8%**	**97.9%**	**97.6%**	**95.7%**	**96.7%**	**96.1%**	**95.3%**	**95.7%**

Licensee Comments: none

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	127.0	123.0	120.0	120.0	120.0	114.0	118.0	118.0
Total Key personnel	127.0	123.0	120.0	120.0	120.0	114.0	118.0	118.0
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	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful siren-tests	474	553	528	499	553	474	553	474
Total sirens-tests	474	553	528	499	553	474	553	474
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**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

Millstone 2 – Quarterly Performance Indicators

1Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
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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)

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	1.0	0	0
Critical hours	2184.0	2208.0	1334.0	2183.0	2184.0	2168.2	2209.0	2159.0
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.9**	**1.8**	**0.8**	**0.8**

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Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned power changes	0	0	2.0	0	0	0	0	0
Critical hours	2184.0	2208.0	1334.0	2183.0	2184.0	2168.2	2209.0	2159.0
Indicator value	**0.8**	**0**	**1.8**	**1.8**	**1.8**	**1.8**	**0**	**0**

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

TOP

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Safety System Functional Failures	0	1	0	0	1	0	0	0
Indicator value	**0**	**1**	**1**	**1**	**2**	**1**	**1**	**1**

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Licensee Comments:
2Q/16: LER 2016-001-00, Turbine Driven Auxiliary Feedwater Pump Room HELB Door Left Open
3Q/15: LER 2015-002-00, Degraded Emergency Core Cooling System Check Valve

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)	2.46E-08	1.14E-08	7.91E-09	-1.14E-08	-1.14E-08	-1.14E-08	1.85E-09	1.82E-09
URI (ΔCDF)	4.72E-08	-2.49E-08	-2.44E-08	-2.49E-08	-2.44E-08	-2.27E-08	5.41E-08	5.52E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.20E-08**	**-1.30E-08**	**-1.60E-08**	**-3.60E-08**	**-3.60E-08**	**-3.40E-08**	**5.60E-08**	**5.70E-08**

TOP

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08
URI (ΔCDF)	-4.15E-08	-4.12E-08	-4.18E-08	-4.12E-08	-4.06E-08	-4.09E-08	-6.35E-08	-6.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.00E-07**	**-1.00E-07**	**-1.30E-07**	**-1.30E-07**

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Licensee Comments:
1Q/17: Changed PRA Parameter(s).
4Q/16: Changed PRA Parameter(s). The generic common cause factor for the HPSI pumps was corrected in the fourth quarter. The error did not result in the indicator value crossing the green white threshold.

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-8.56E-08	-8.61E-08	-8.60E-08	-8.75E-08	-8.77E-08	-5.28E-08	-2.18E-08	-2.22E-08
URI (ΔCDF)	-1.51E-07	-1.47E-07	-1.47E-07	-1.48E-07	-1.48E-07	-1.48E-07	-1.48E-07	-1.49E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.40E-07**	**-2.30E-07**	**-2.30E-07**	**-2.40E-07**	**-2.40E-07**	**-2.00E-07**	**-1.70E-07**	**-1.70E-07**

TOP

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	2.05E-11	1.61E-11	1.33E-11	1.33E-10	-1.28E-10	-5.34E-11	-5.55E-11	1.85E-11
URI (ΔCDF)	-1.20E-08	-1.23E-08	-1.25E-08	-1.23E-08	-1.23E-08	-1.23E-08	-1.23E-08	-1.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**

TOP

Licensee Comments:
3Q/16: The first quarter 2015 demand data was corrected to include an additional valve demand. This did not result in a change to the calculated MSPI. It did not result in the indicator value crossing the GREEN/WHITE threshold.

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)	-2.96E-09	-2.69E-09	2.54E-08	3.39E-08	3.46E-08	7.12E-08	7.10E-08	7.60E-08
URI (ΔCDF)	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.53E-07	-1.53E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-07**	**-1.60E-07**	**-1.30E-07**	**-1.20E-07**	**-1.20E-07**	**-8.40E-08**	**-8.20E-08**	**-7.70E-08**

TOP

Licensee Comments:
1Q/17: Changed PRA Parameter(s).
4Q/16: Changed PRA Parameter(s). The generic common cause factor for the reactor building cooling water pumps was corrected in the fourth quarter. The error did not result in the indicator value crossing the green white threshold.

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	0.001140	0.001210	0.001190	0.001270	0.001430	0.001390	0.001260	0.000768	0.000832	0.000913	0.000882	0.000979
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**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	0.000971	0.001020	0.001030	0.001050	0.001190	0.001110	0.001120	0.001180	0.001200	0.001250	0.001330	0.001300
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

TOP

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum leakage	0.009	0.033	0.005	0.008	0.021	0.038	0.023	0.010	0.007	0.006	0.008	0.009
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**0.3**	**0.1**	**0.1**	**0.2**	**0.4**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Leakage	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum leakage	0.015	0.018	0.038	0.025	0.034	0.055	0.077	0.089	0.003	0.070	0.002	0.005
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.2**	**0.2**	**0.4**	**0.3**	**0.3**	**0.6**	**0.8**	**0.9**	**0**	**0.7**	**0**	**0.1**

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	36.0	30.0	24.0	36.0	16.0	31.0	25.0	22.0
Total opportunities	36.0	32.0	28.0	37.0	17.0	33.0	25.0	22.0
Indicator value	**97.9%**	**97.6%**	**95.7%**	**96.7%**	**96.1%**	**95.3%**	**95.7%**	**95.7%**

TOP

Licensee Comments: none

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	123.0	120.0	120.0	120.0	114.0	118.0	118.0	118.0
Total Key personnel	123.0	120.0	120.0	120.0	114.0	118.0	118.0	119.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.2%**

TOP

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful siren-tests	553	528	499	553	474	553	474	553
Total sirens-tests	553	528	499	553	474	553	474	553
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

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**

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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**

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Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: May 5, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017

United States Nuclear Regulatory Commission
Protecting People and the Environment

Millstone 2 – Quarterly Performance Indicators

2Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
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- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned scrams	0	1.0	0	0	1.0	0	0	0
Critical hours	2208.0	1334.0	2183.0	2184.0	2168.2	2209.0	2159.0	1401.7
Indicator value	**0**	**0.9**	**0.9**	**0.9**	**1.8**	**0.8**	**0.8**	**0.9**

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Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned power changes	0	2.0	0	0	0	0	0	0
Critical hours	2208.0	1334.0	2183.0	2184.0	2168.2	2209.0	2159.0	1401.7
Indicator value	**0**	**1.8**	**1.8**	**1.8**	**1.8**	**0**	**0**	**0**

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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	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**

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Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Safety System Functional Failures	1	0	0	1	0	0	0	0
Indicator value	**1**	**1**	**1**	**2**	**1**	**1**	**1**	**0**

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Licensee Comments:
2Q/16: LER 2016-001-00, Turbine Driven Auxiliary Feedwater Pump Room HELB Door Left Open
3Q/15: LER 2015-002-00, Degraded Emergency Core Cooling System Check Valve

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)	1.14E-08	7.91E-09	-1.14E-08	-1.14E-08	-1.14E-08	1.85E-09	1.82E-09	1.64E-09
URI (ΔCDF)	-2.49E-08	-2.44E-08	-2.49E-08	-2.44E-08	-2.27E-08	5.41E-08	5.52E-08	1.37E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.60E-08**	**-3.60E-08**	**-3.60E-08**	**-3.40E-08**	**5.60E-08**	**5.70E-08**	**1.40E-07**

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Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08
URI (ΔCDF)	-4.12E-08	-4.18E-08	-4.12E-08	-4.06E-08	-4.09E-08	-6.35E-08	-6.40E-08	-6.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.00E-07**	**-1.00E-07**	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**

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Licensee Comments:
1Q/17: Changed PRA Parameter(s).
4Q/16: Changed PRA Parameter(s). The generic common cause factor for the HPSI pumps was corrected in the fourth quarter. The error did not result in the indicator value crossing the green white threshold.

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)	-8.61E-08	-8.60E-08	-8.75E-08	-8.77E-08	-5.28E-08	-2.18E-08	-2.22E-08	-7.94E-08
URI (ΔCDF)	-1.47E-07	-1.47E-07	-1.48E-07	-1.48E-07	-1.48E-07	-1.48E-07	-1.49E-07	-1.43E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-07**	**-2.30E-07**	**-2.40E-07**	**-2.40E-07**	**-2.00E-07**	**-1.70E-07**	**-1.70E-07**	**-2.20E-07**

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Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	1.61E-11	1.33E-11	1.33E-10	-1.28E-10	-5.34E-11	-5.55E-11	1.85E-11	1.78E-11
URI (ΔCDF)	-1.23E-08	-1.25E-08	-1.23E-08	-1.23E-08	-1.23E-08	-1.23E-08	-1.25E-08	-1.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.40E-08**

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Licensee Comments:
3Q/16: The first quarter 2015 demand data was corrected to include an additional valve demand. This did not result in a change to the calculated MSPI. It did not result in the indicator value crossing the GREEN/WHITE threshold.

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)	-2.69E-09	2.54E-08	3.39E-08	3.46E-08	7.12E-08	7.10E-08	7.60E-08	7.47E-08
URI (ΔCDF)	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.53E-07	-1.53E-07	-1.52E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-07**	**-1.30E-07**	**-1.20E-07**	**-1.20E-07**	**-8.40E-08**	**-8.20E-08**	**-7.70E-08**	**-7.80E-08**

TOP

Licensee Comments:
1Q/17: Changed PRA Parameter(s).
4Q/16: Changed PRA Parameter(s). The generic common cause factor for the reactor building cooling water pumps was corrected in the fourth quarter. The error did not result in the indicator value crossing the green white threshold.

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum activity	0.001270	0.001430	0.001390	0.001260	0.000768	0.000832	0.000913	0.000882	0.000979	0.000971	0.001020	0.001030
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**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	0.001050	0.001190	0.001110	0.001120	0.001180	0.001200	0.001250	0.001330	0.001300	N/A	0.000750	0.000778
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**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	0.008	0.021	0.038	0.023	0.010	0.007	0.006	0.008	0.009	0.015	0.018	0.038
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**0.2**	**0.4**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.4**

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	0.025	0.034	0.055	0.077	0.089	0.003	0.070	0.002	0.005	0	0.056	0.008
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.3**	**0.3**	**0.6**	**0.8**	**0.9**	**0**	**0.7**	**0**	**0.1**	**0**	**0.6**	**0.1**

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	30.0	24.0	36.0	16.0	31.0	25.0	22.0	16.0
Total opportunities	32.0	28.0	37.0	17.0	33.0	25.0	22.0	17.0
Indicator value	**97.6%**	**95.7%**	**96.7%**	**96.1%**	**95.3%**	**95.7%**	**95.7%**	**94.8%**

TOP

Licensee Comments: none

Notes

ERO Drill Participation	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Participating Key personnel	120.0	120.0	120.0	114.0	118.0	118.0	118.0	120.0
Total Key personnel	120.0	120.0	120.0	114.0	118.0	118.0	119.0	120.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.2%**	**100.0%**

TOP

Licensee Comments: none

Notes

Alert & Notification System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful siren-tests	528	499	553	474	553	474	553	474
Total sirens-tests	528	499	553	474	553	474	553	474
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

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

Millstone 2 – Quarterly Performance Indicators

3Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
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- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

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	1.0	0	0	0	0
Critical hours	1334.0	2183.0	2184.0	2168.2	2209.0	2159.0	1401.7	2208.0
Indicator value	**0.9**	**0.9**	**0.9**	**1.8**	**0.8**	**0.8**	**0.9**	**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	2.0	0	0	0	0	0	0	0
Critical hours	1334.0	2183.0	2184.0	2168.2	2209.0	2159.0	1401.7	2208.0
Indicator value	**1.8**	**1.8**	**1.8**	**1.8**	**0**	**0**	**0**	**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	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**

TOP

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Safety System Functional Failures	0	0	1	0	0	0	0	0
Indicator value	**1**	**1**	**2**	**1**	**1**	**1**	**0**	**0**

TOP

Licensee Comments:
2Q/16: LER 2016-001-00, Turbine Driven Auxiliary Feedwater Pump Room HELB Door Left Open

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)	7.91E-09	-1.14E-08	-1.14E-08	-1.14E-08	1.85E-09	1.82E-09	1.64E-09	1.59E-09
URI (ΔCDF)	-2.44E-08	-2.49E-08	-2.44E-08	-2.27E-08	5.41E-08	5.52E-08	1.37E-07	1.38E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-08**	**-3.60E-08**	**-3.60E-08**	**-3.40E-08**	**5.60E-08**	**5.70E-08**	**1.40E-07**	**1.40E-07**

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Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08
URI (ΔCDF)	-4.18E-08	-4.12E-08	-4.06E-08	-4.09E-08	-6.35E-08	-6.40E-08	-6.59E-08	-6.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.10E-07**	**-1.00E-07**	**-1.00E-07**	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**

TOP

Licensee Comments:
1Q/17: Changed PRA Parameter(s).
4Q/16: Changed PRA Parameter(s). The generic common cause factor for the HPSI pumps was corrected in the fourth quarter. The error did not result in the indicator value crossing the green white threshold.

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)	-8.60E-08	-8.75E-08	-8.77E-08	-5.28E-08	-2.18E-08	-2.22E-08	-7.94E-08	-9.62E-08
URI (ΔCDF)	-1.47E-07	-1.48E-07	-1.48E-07	-1.48E-07	-1.48E-07	-1.49E-07	-1.43E-07	-1.38E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-07**	**-2.40E-07**	**-2.40E-07**	**-2.00E-07**	**-1.70E-07**	**-1.70E-07**	**-2.20E-07**	**-2.30E-07**

TOP

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	1.33E-11	1.33E-10	-1.28E-10	-5.34E-11	-5.55E-11	1.85E-11	1.78E-11	1.42E-10
URI (ΔCDF)	-1.25E-08	-1.23E-08	-1.23E-08	-1.23E-08	-1.23E-08	-1.25E-08	-1.40E-08	-1.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.40E-08**	**-1.40E-08**

TOP

Licensee Comments:
3Q/16: The first quarter 2015 demand data was corrected to include an additional valve demand. This did not result in a change to the calculated MSPI. It did not result in the indicator value crossing the GREEN/WHITE threshold.

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)	2.54E-08	3.39E-08	3.46E-08	7.12E-08	7.10E-08	7.60E-08	7.47E-08	7.13E-08
URI (ΔCDF)	-1.55E-07	-1.55E-07	-1.55E-07	-1.55E-07	-1.53E-07	-1.53E-07	-1.52E-07	-1.52E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-07**	**-1.20E-07**	**-1.20E-07**	**-8.40E-08**	**-8.20E-08**	**-7.70E-08**	**-7.80E-08**	**-8.10E-08**

TOP

Licensee Comments:
1Q/17: Changed PRA Parameter(s).
4Q/16: Changed PRA Parameter(s). The generic common cause factor for the reactor building cooling water pumps was corrected in the fourth quarter. The error did not result in the indicator value crossing the green white threshold.

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	0.001260	0.000768	0.000832	0.000913	0.000882	0.000979	0.000971	0.001020	0.001030	0.001050	0.001190	0.001110
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**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	0.001120	0.001180	0.001200	0.001250	0.001330	0.001300	N/A	0.000750	0.000778	0.000799	0.000807	0.000889
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

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	0.023	0.010	0.007	0.006	0.008	0.009	0.015	0.018	0.038	0.025	0.034	0.055
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.4**	**0.3**	**0.3**	**0.6**

Reactor Coolant System Leakage	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum leakage	0.077	0.089	0.003	0.070	0.002	0.005	0	0.056	0.008	0.011	0.013	0.025
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.8**	**0.9**	**0**	**0.7**	**0**	**0.1**	**0**	**0.6**	**0.1**	**0.1**	**0.1**	**0.3**

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	24.0	36.0	16.0	31.0	25.0	22.0	16.0	40.0
Total opportunities	28.0	37.0	17.0	33.0	25.0	22.0	17.0	40.0
Indicator value	**95.7%**	**96.7%**	**96.1%**	**95.3%**	**95.7%**	**95.7%**	**94.8%**	**95.9%**

TOP

Licensee Comments: none

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	120.0	120.0	114.0	118.0	118.0	118.0	120.0	120.0
Total Key personnel	120.0	120.0	114.0	118.0	118.0	119.0	120.0	120.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.2%**	**100.0%**	**100.0%**

TOP

Licensee Comments: none

Notes

Alert & Notification System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful siren-tests	499	553	474	553	474	553	474	553
Total sirens-tests	499	553	474	553	474	553	474	553
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

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

Millstone 2 – Quarterly Performance Indicators

4Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
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- Residual Heat Removal Systems (MS09)
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- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2183.0	2184.0	2168.2	2209.0	2159.0	1401.7	2208.0	2209.0
Indicator value	**0.9**	**0.9**	**1.8**	**0.8**	**0.8**	**0.9**	**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	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2168.2	2209.0	2159.0	1401.7	2208.0	2209.0
Indicator value	**1.8**	**1.8**	**1.8**	**0**	**0**	**0**	**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	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

TOP

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Safety System Functional Failures	0	1	0	0	0	0	0	0
Indicator value	**1**	**2**	**1**	**1**	**1**	**0**	**0**	**0**

TOP

Licensee Comments:
2Q/16: LER 2016-001-00, Turbine Driven Auxiliary Feedwater Pump Room HELB Door Left Open

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)	-1.14E-08	-1.14E-08	-1.14E-08	1.85E-09	1.82E-09	1.64E-09	1.59E-09	-1.87E-09
URI (ΔCDF)	-2.49E-08	-2.44E-08	-2.27E-08	5.41E-08	5.52E-08	1.37E-07	1.38E-07	3.77E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.60E-08**	**-3.60E-08**	**-3.40E-08**	**5.60E-08**	**5.70E-08**	**1.40E-07**	**1.40E-07**	**3.60E-08**

TOP

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08	-6.40E-08
URI (ΔCDF)	-4.12E-08	-4.06E-08	-4.09E-08	-6.35E-08	-6.40E-08	-6.59E-08	-6.59E-08	-6.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.00E-07**	**-1.00E-07**	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**	**-1.30E-07**

TOP

Licensee Comments:
1Q/17: Changed PRA Parameter(s).
4Q/16: Changed PRA Parameter(s). The generic common cause factor for the HPSI pumps was corrected in the fourth quarter. The error did not result in the indicator value crossing the green white threshold.

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)	-8.75E-08	-8.77E-08	-5.28E-08	-2.18E-08	-2.22E-08	-7.94E-08	-9.62E-08	-9.62E-08
URI (ΔCDF)	-1.48E-07	-1.48E-07	-1.48E-07	-1.48E-07	-1.49E-07	-1.43E-07	-1.38E-07	-1.38E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.40E-07**	**-2.40E-07**	**-2.00E-07**	**-1.70E-07**	**-1.70E-07**	**-2.20E-07**	**-2.30E-07**	**-2.30E-07**

TOP

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	1.33E-10	-1.28E-10	-5.34E-11	-5.55E-11	1.85E-11	1.78E-11	1.42E-10	-1.83E-10
URI (ΔCDF)	-1.23E-08	-1.23E-08	-1.23E-08	-1.23E-08	-1.25E-08	-1.40E-08	-1.40E-08	-1.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**

TOP

Licensee Comments:
3Q/16: The first quarter 2015 demand data was corrected to include an additional valve demand. This did not result in a change to the calculated MSPI. It did not result in the indicator value crossing the GREEN/WHITE threshold.

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)	3.39E-08	3.46E-08	7.12E-08	7.10E-08	7.60E-08	7.47E-08	7.13E-08	5.16E-08
URI (ΔCDF)	-1.55E-07	-1.55E-07	-1.55E-07	-1.53E-07	-1.53E-07	-1.52E-07	-1.52E-07	-1.52E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-07**	**-1.20E-07**	**-8.40E-08**	**-8.20E-08**	**-7.70E-08**	**-7.80E-08**	**-8.10E-08**	**-1.00E-07**

TOP

Licensee Comments:
1Q/17: Changed PRA Parameter(s).
4Q/16: Changed PRA Parameter(s). The generic common cause factor for the reactor building cooling water pumps was corrected in the fourth quarter. The error did not result in the indicator value crossing the green white threshold.

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	0.000913	0.000882	0.000979	0.000971	0.001020	0.001030	0.001050	0.001190	0.001110	0.001120	0.001180	0.001200
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**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	0.001250	0.001330	0.001300	N/A	0.000750	0.000778	0.000799	0.000807	0.000889	0.000845	0.000874	0.000927
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**N/A**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

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	0.006	0.008	0.009	0.015	0.018	0.038	0.025	0.034	0.055	0.077	0.089	0.003
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.4**	**0.3**	**0.3**	**0.6**	**0.8**	**0.9**	**0**

Reactor Coolant System Leakage	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17	10/17	11/17	12/17
Maximum leakage	0.070	0.002	0.005	0	0.056	0.008	0.011	0.013	0.025	0.027	0.038	0.003
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.7**	**0**	**0.1**	**0**	**0.6**	**0.1**	**0.1**	**0.1**	**0.3**	**0.3**	**0.4**	**0**

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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	36.0	16.0	31.0	25.0	22.0	16.0	40.0	32.0
Total opportunities	37.0	17.0	33.0	25.0	22.0	17.0	40.0	33.0
Indicator value	**96.7%**	**96.1%**	**95.3%**	**95.7%**	**95.7%**	**94.8%**	**95.9%**	**97.3%**

TOP

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Participating Key personnel	120.0	114.0	118.0	118.0	118.0	120.0	120.0	119.0
Total Key personnel	120.0	114.0	118.0	118.0	119.0	120.0	120.0	119.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.2%**	**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	553	474	553	474	553	474	553	474
Total sirens-tests	553	474	553	474	553	474	553	474
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

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**

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Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: February 1, 2018

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