

Surry 1

1Q/2000 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



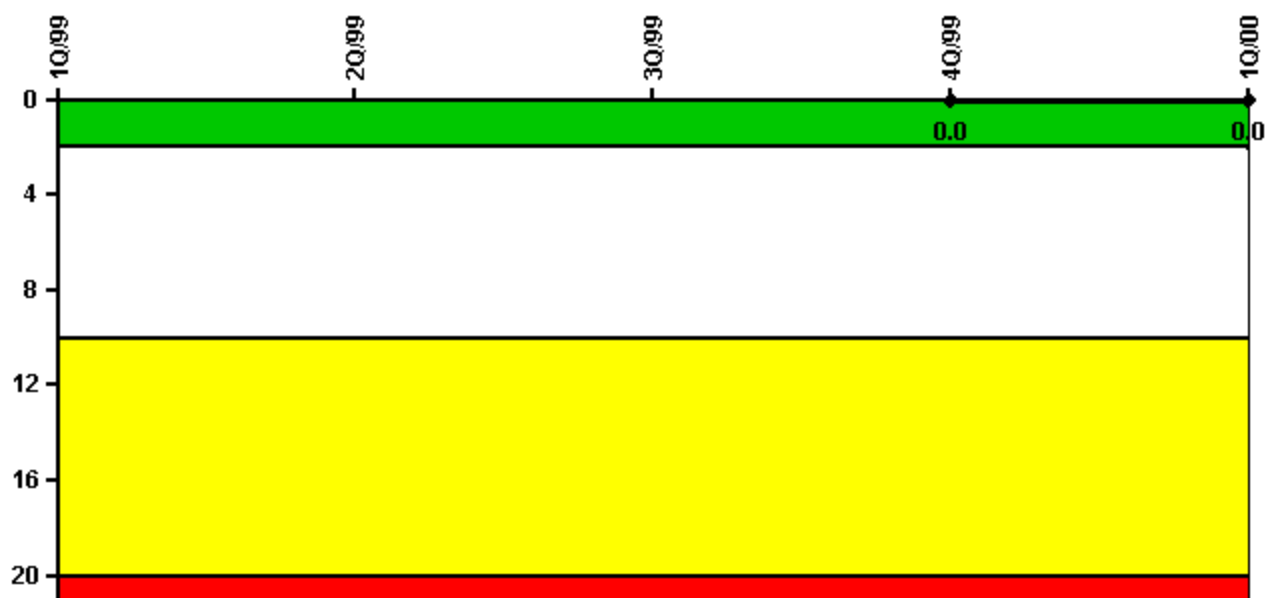
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned scrams	0	0	0	0	0
Critical hours	2160.0	2183.0	2208.0	2209.0	2184.0
Indicator value	0.9	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



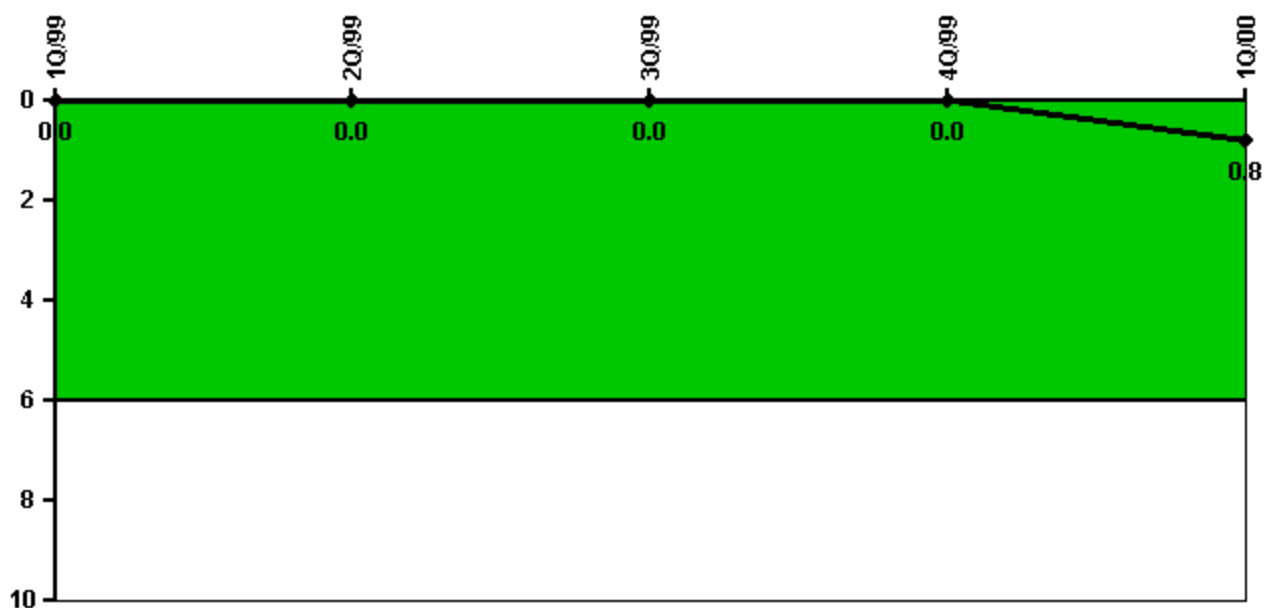
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



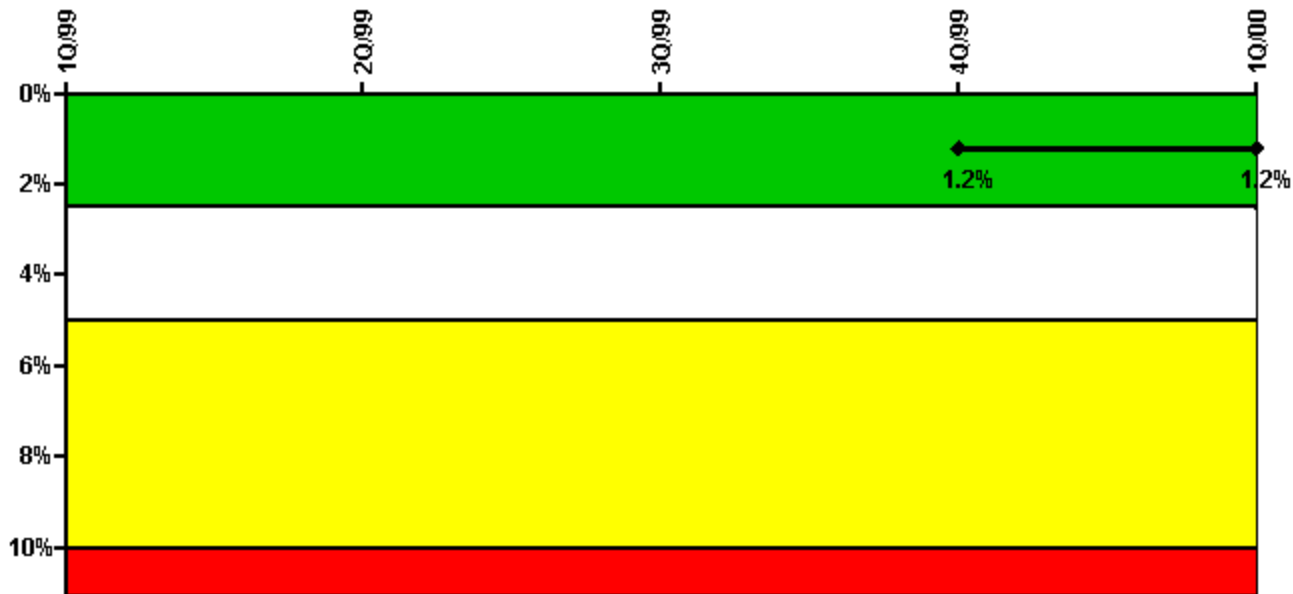
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned power changes	0	0	0	0	1.0
Critical hours	2160.0	2183.0	2208.0	2209.0	2184.0
Indicator value	0	0	0	0	0.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

Notes

Safety System Unavailability, Emergency AC Power	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	17.10	20.60	23.00	17.30	13.40
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Train 2					
Planned unavailable hours	14.10	52.60	15.65	41.05	26.08
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value				1.2%	1.2%

Licensee Comments:

1Q/00: Surry has 3 Emergency Diesels. Diesel #1 is dedicated to Unit 1 and Diesel #2 is dedicated to Unit 2. Diesel #3 is a shared diesel. The information for Surry Unit 1 previously included data for Diesels 1 & 2 rather than Diesels 1 & 3. This issue required correcting the historical data from 1Q1997 through 1Q2000. The PI color did not change.

Safety System Unavailability, High Pressure Injection System (HPSI)



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

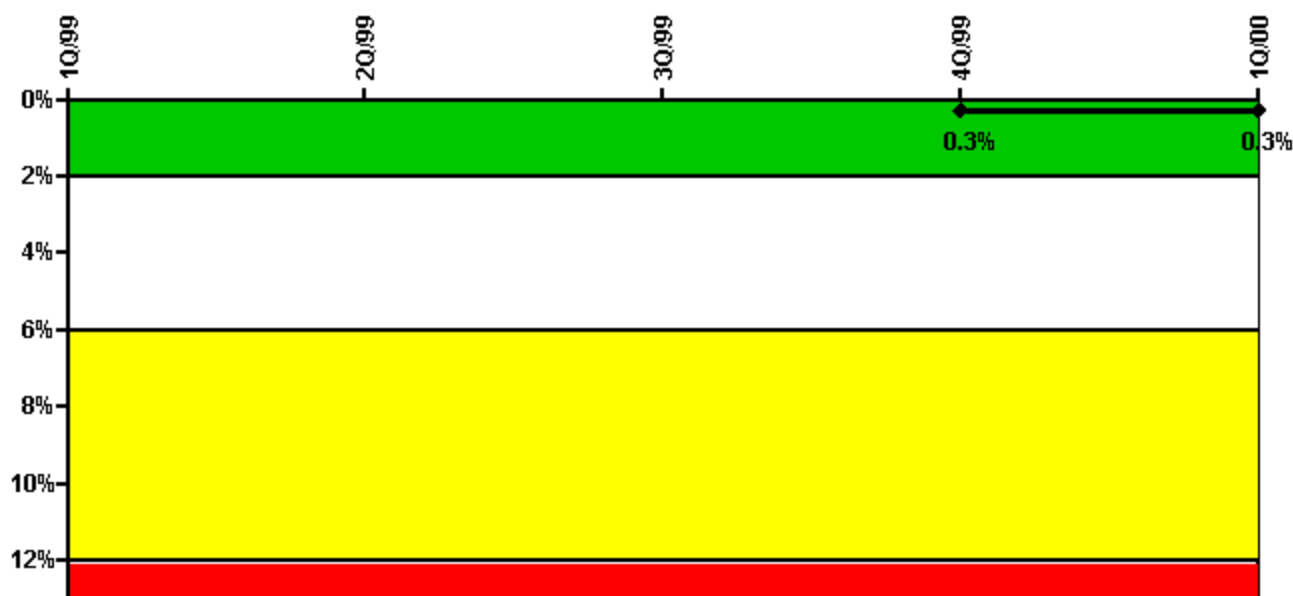
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0	0	0	0	5.20
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Train 2					
Planned unavailable hours	0	0	0	0	10.00
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value				0.1%	0.1%

Licensee Comments:

1Q/00: Historical data was changed to reflect Surry's unique design. Post accident cooling, as provided by the Low Head Safety Injection system, has been extracted and included in the Residual Heat Removal system PI. This change was made IAW Appendix D of NEI 99-02 Revision 0.

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	0.70	1.80	9.10	3.30	2.90
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Train 2					
Planned unavailable hours	0.90	14.30	12.40	0	1.50
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Train 3					
Planned unavailable hours	1.60	1.80	11.50	2.00	19.90
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value				0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

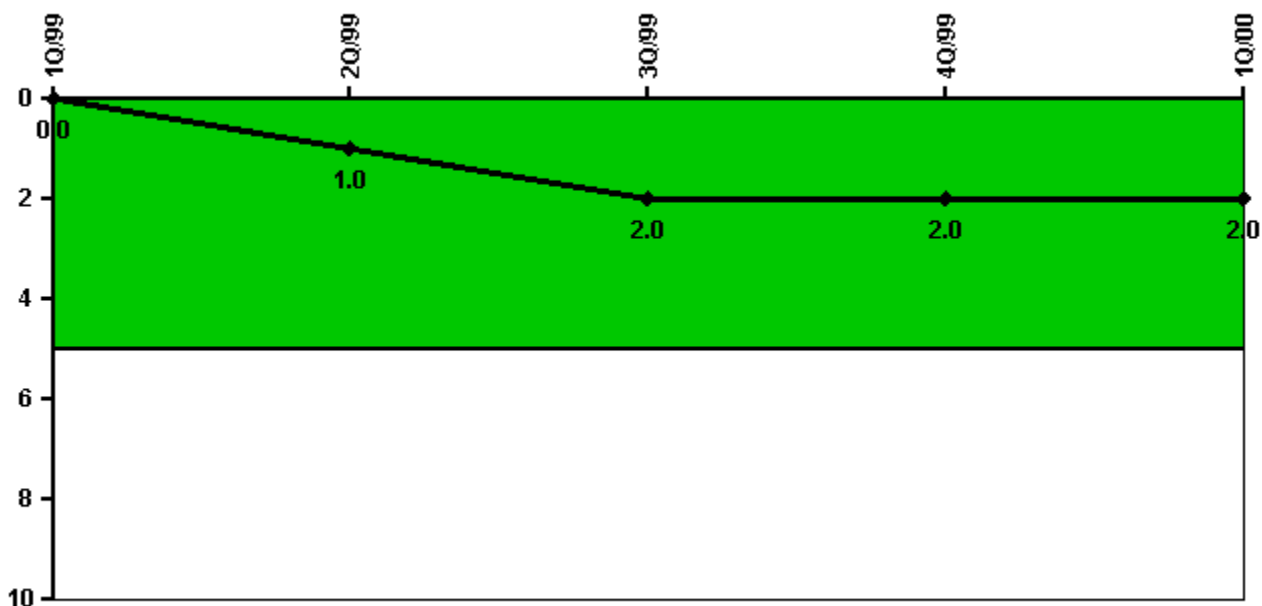
Notes

Safety System Unavailability, Residual Heat Removal System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0	0	0	0	10.00
Unplanned unavailable hours	0	0	6.30	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	7.50	0	0	0.10
Unplanned unavailable hours	25.80	0	0	0	0
Fault exposure hours	1015.00	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 3					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Train 4					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value				1.2%	1.2%

Licensee Comments:

1Q/00: Current and historical data were changed to reflect Surry's unique design. Trains 1 & 2 reflect post accident cooling as provided by the Low Head Safety Injection and Recirculation Spray systems. Trains 3 & 4 reflect decay heat removal as provided by the Residual Heat Removal system. These changes were made IAW Appendix D of NEI 99-02 Revision 0.

Safety System Functional Failures (PWR)



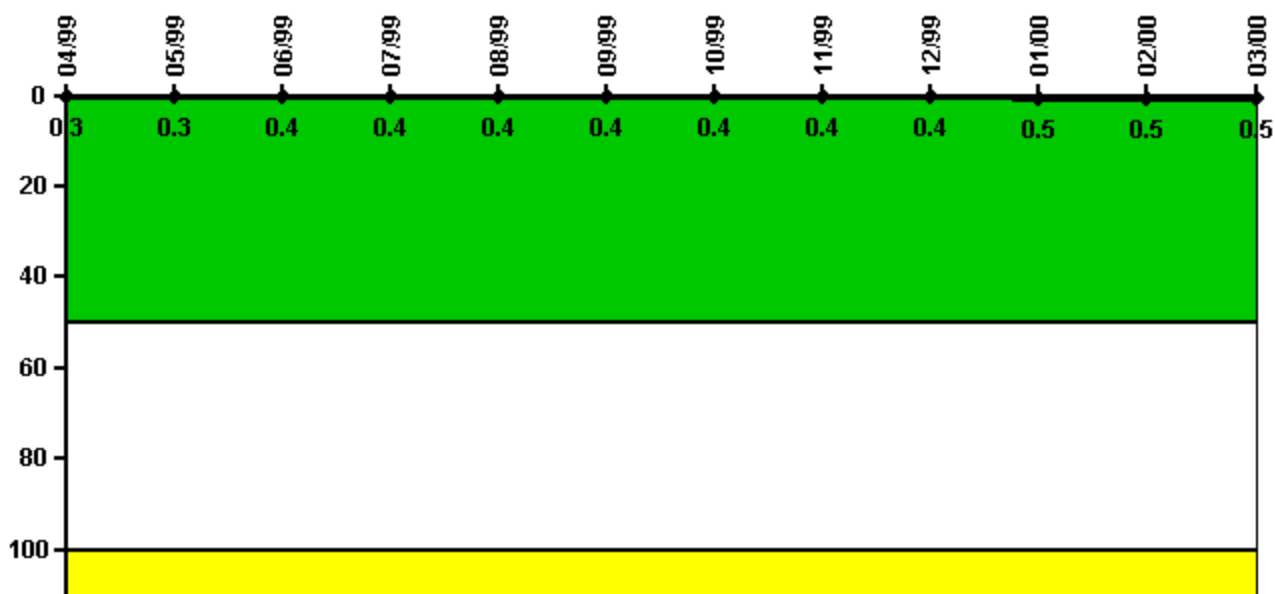
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



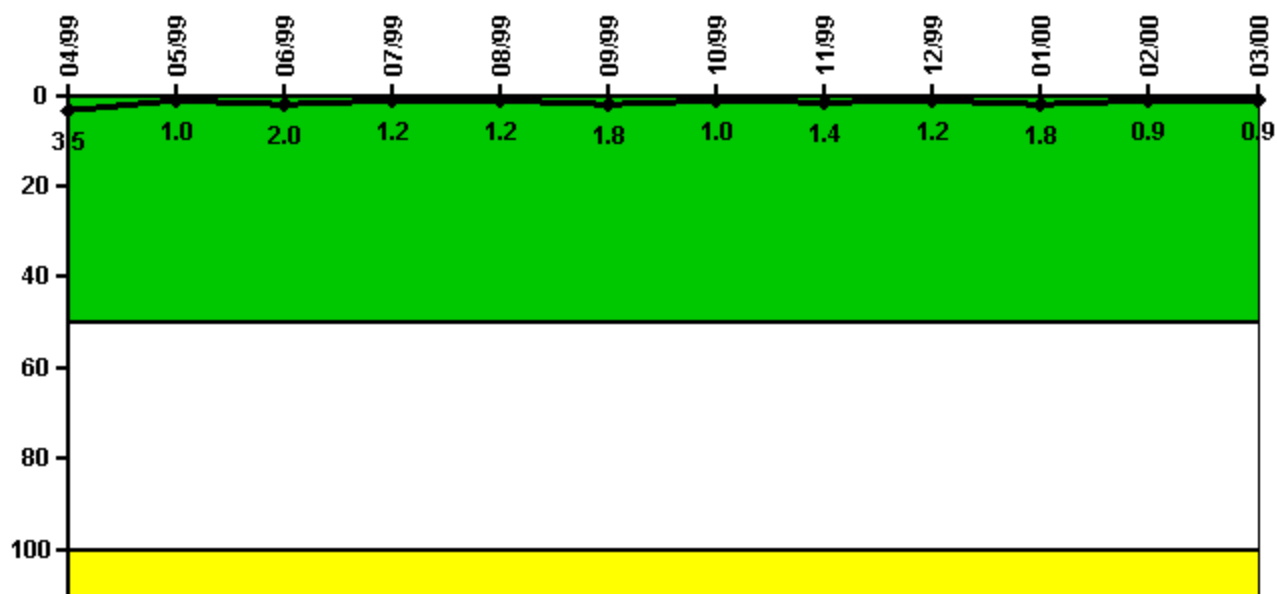
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum activity	0.003310	0.003450	0.003710	0.003820	0.003810	0.003930	0.004070	0.004460	0.004370	0.004500	0.004660	0.005130
Technical specification limit	1.0	1.0	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	0.5	0.5	0.5

Licensee Comments: none

Reactor Coolant System Leakage



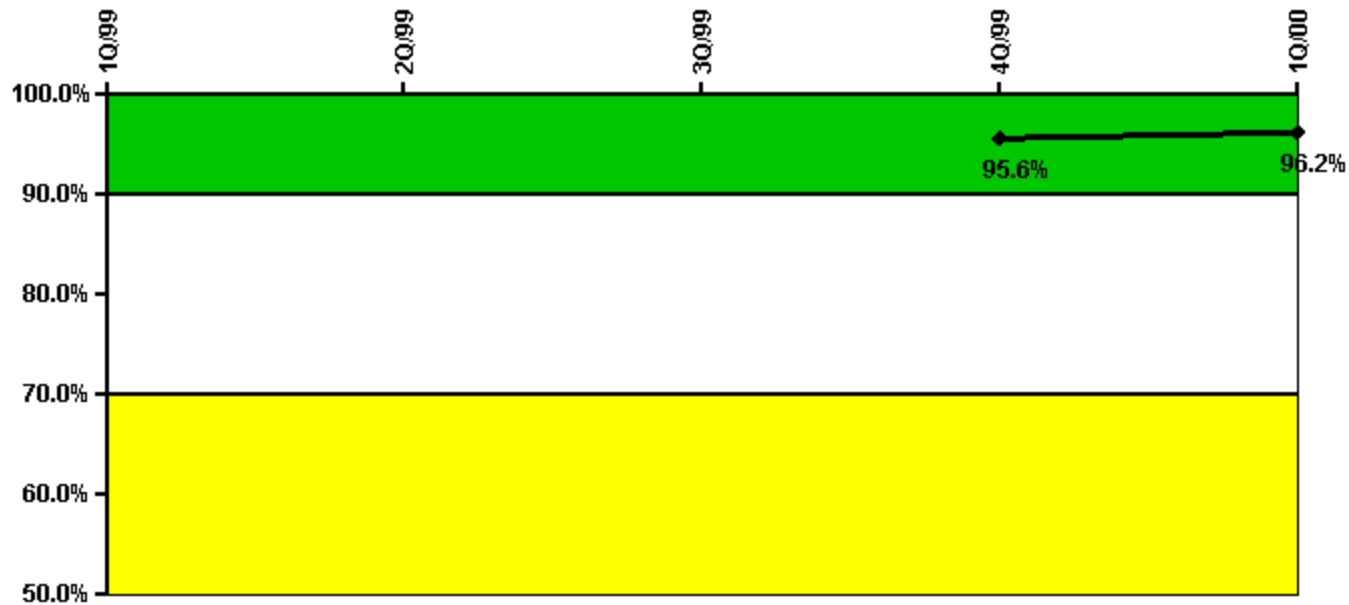
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum leakage	0.350	0.100	0.200	0.120	0.120	0.180	0.100	0.140	0.120	0.180	0.090	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.5	1.0	2.0	1.2	1.2	1.8	1.0	1.4	1.2	1.8	0.9	0.9

Licensee Comments: none

Drill/Exercise Performance



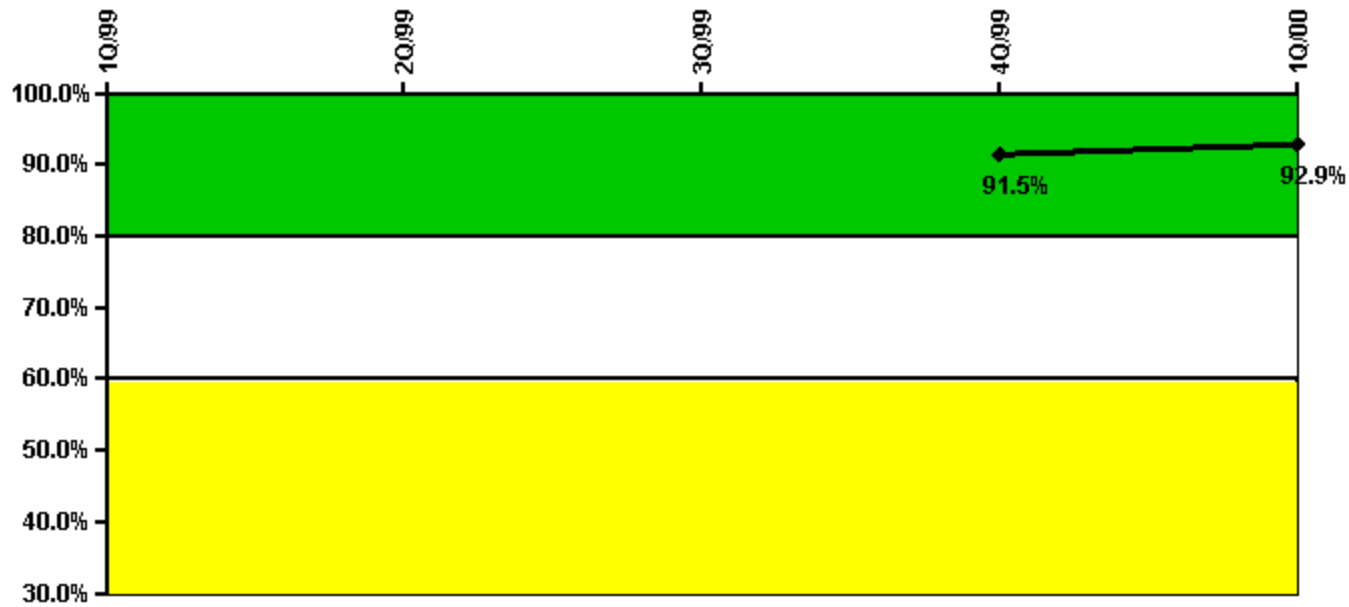
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful opportunities	0	6.0	9.0	78.0	44.0
Total opportunities	0	8.0	9.0	81.0	45.0
Indicator value				95.6%	96.2%

Licensee Comments: none

ERO Drill Participation



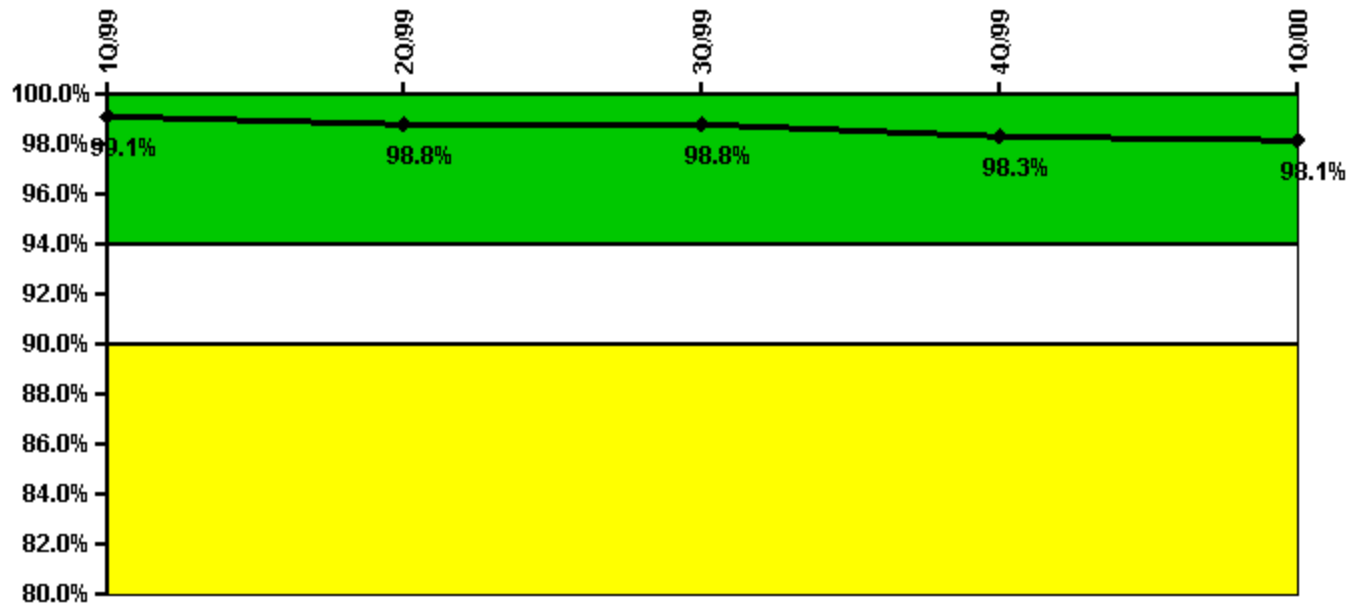
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Participating Key personnel				151.0	157.0
Total Key personnel				165.0	169.0
Indicator value				91.5%	92.9%

Licensee Comments: none

Alert & Notification System



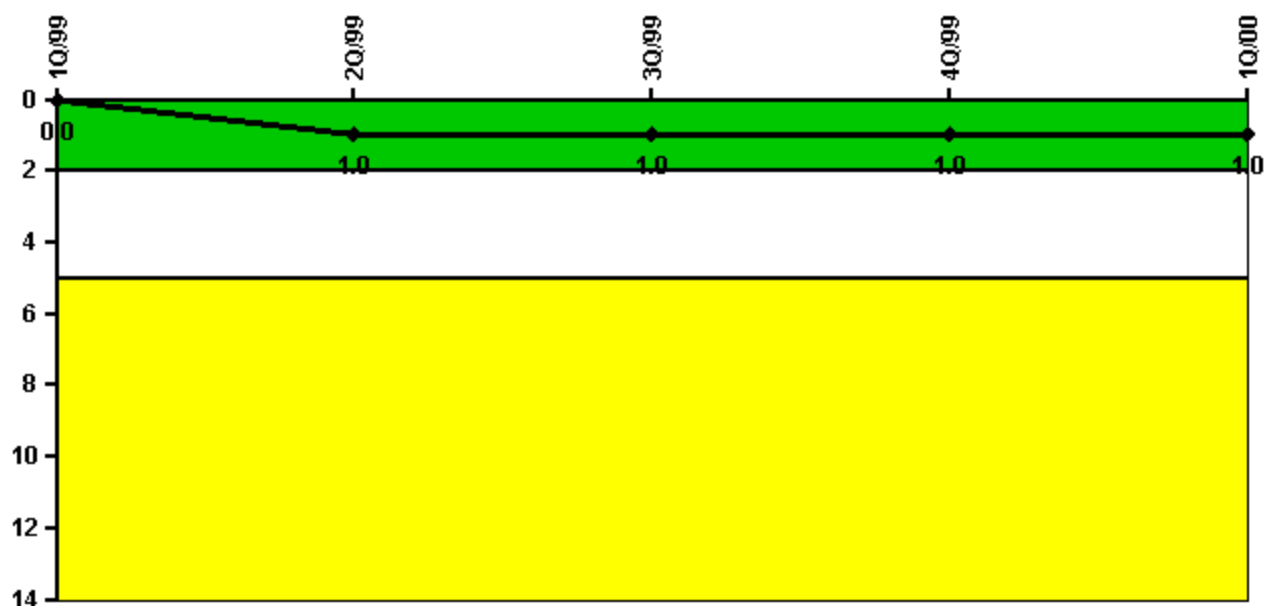
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful siren-tests	425	417	493	492	498
Total sirens-tests	427	427	500	504	506
Indicator value	99.1%	98.8%	98.8%	98.3%	98.1%

Licensee Comments: none

Occupational Exposure Control Effectiveness



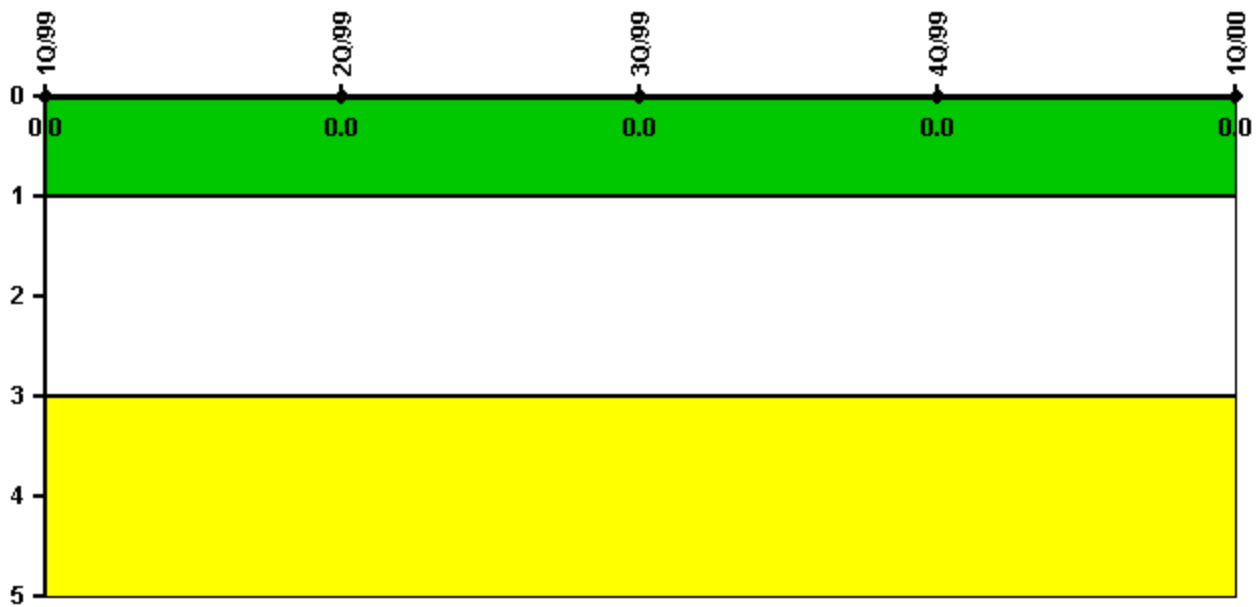
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



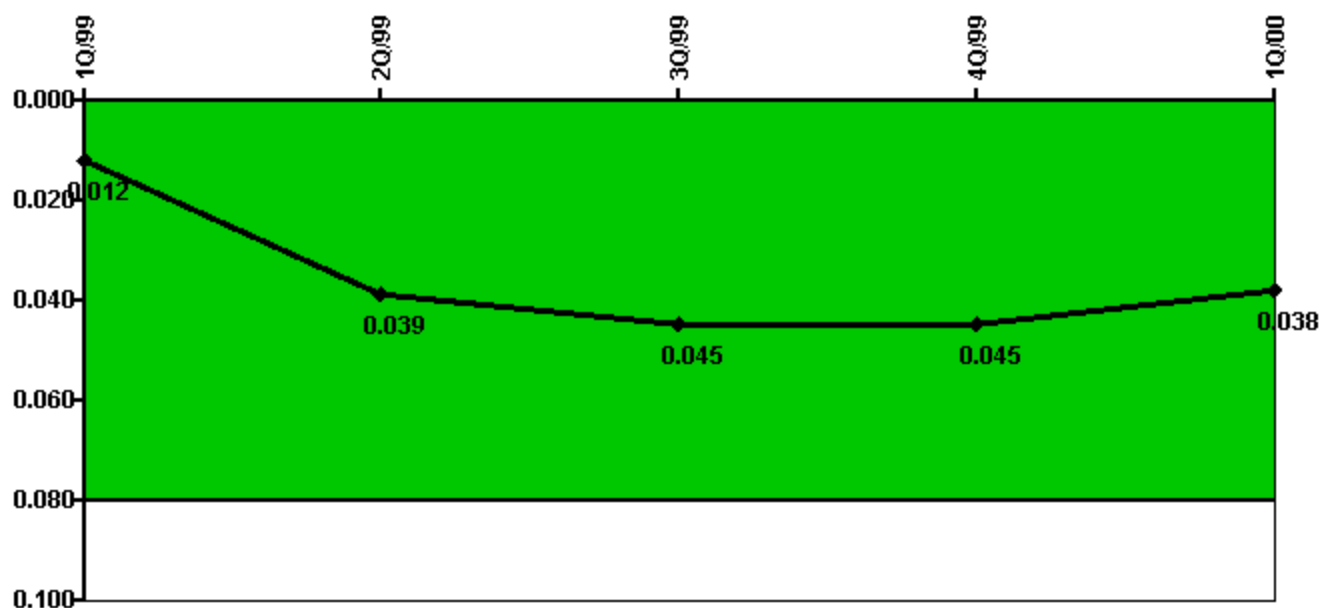
Thresholds: White > 1.0 Yellow > 3.0

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

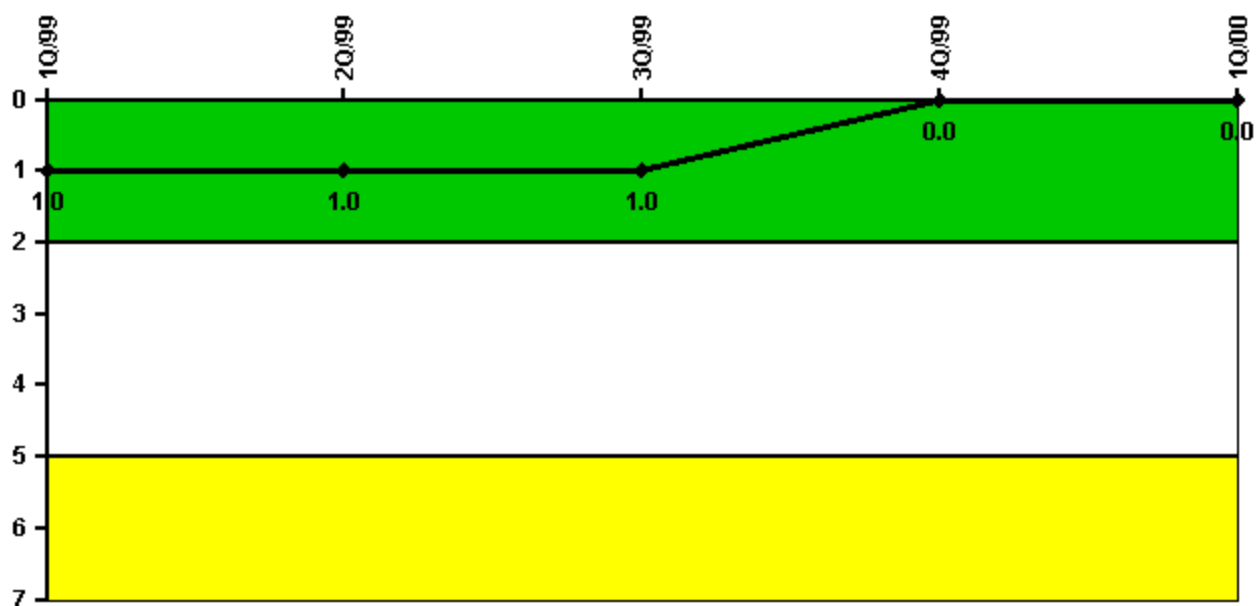
Notes

Protected Area Security Performance Index	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
IDS compensatory hours	146.00	548.00	124.30	8.20	26.05
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	0.012	0.039	0.045	0.045	0.038

Licensee Comments:

1Q/00: The Protected Area perimeter threat assessment function at Surry is primarily provided by armed response personnel in towers. This performance data reflects one CCTV camera which covers the part of the perimeter not covered by a tower.

Personnel Screening Program



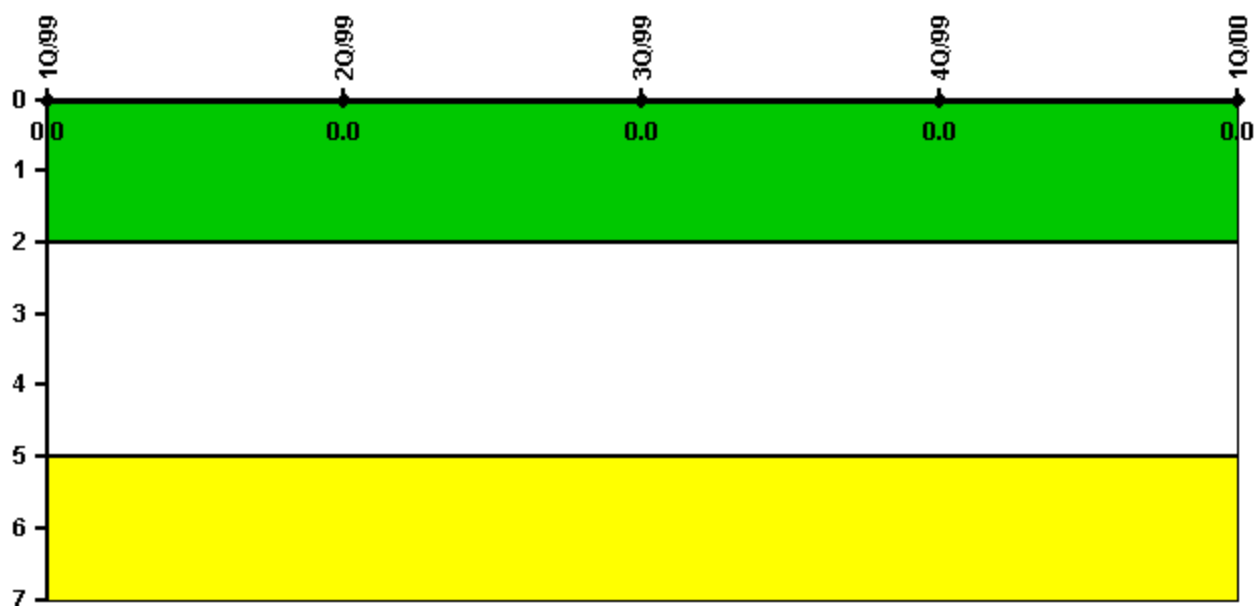
Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Program failures	0	0	0	0	0
Indicator value	1	1	1	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](#)

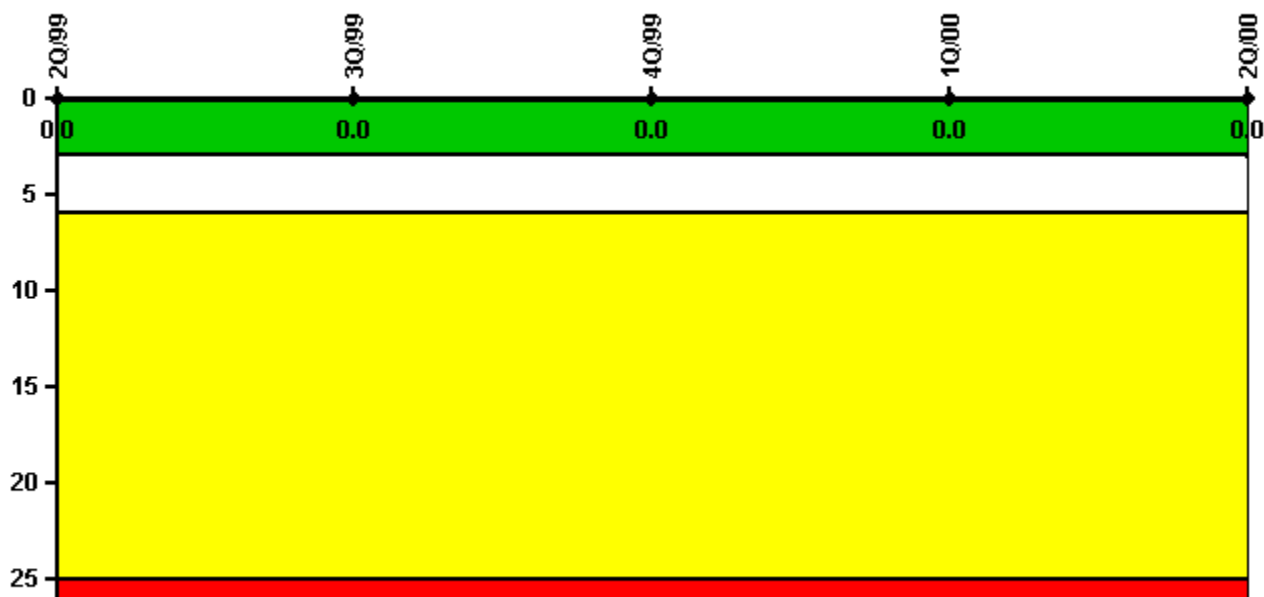
Last Modified: April 1, 2002

Surry 1

2Q/2000 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



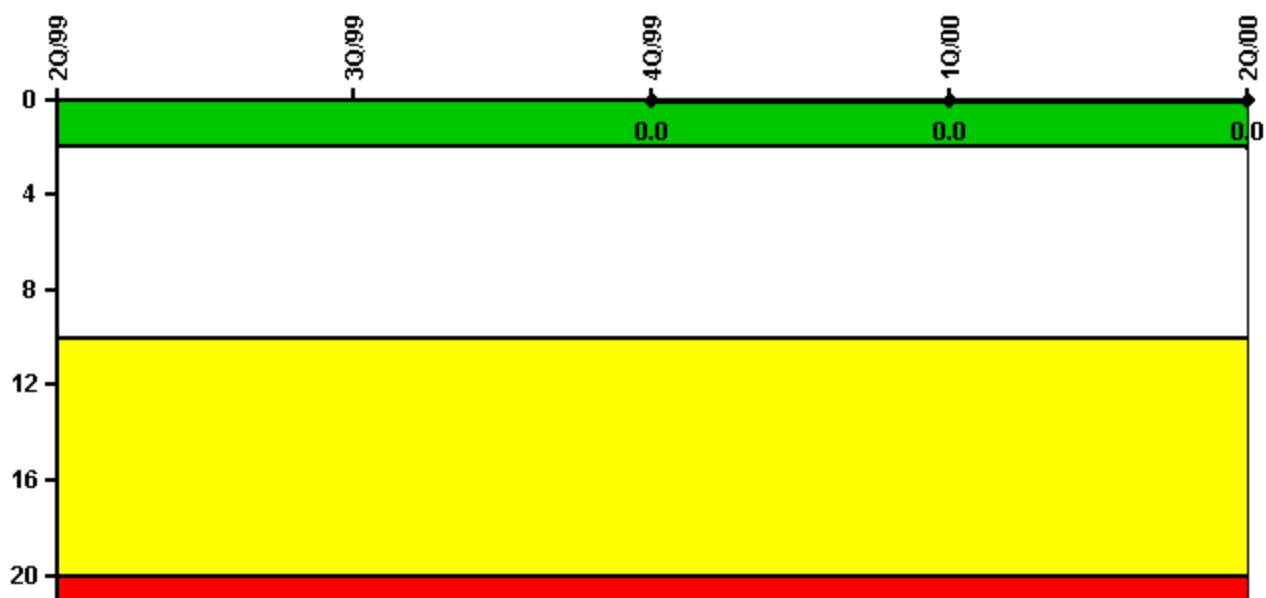
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned scrams	0	0	0	0	0
Critical hours	2183.0	2208.0	2209.0	2184.0	1646.0
Indicator value	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



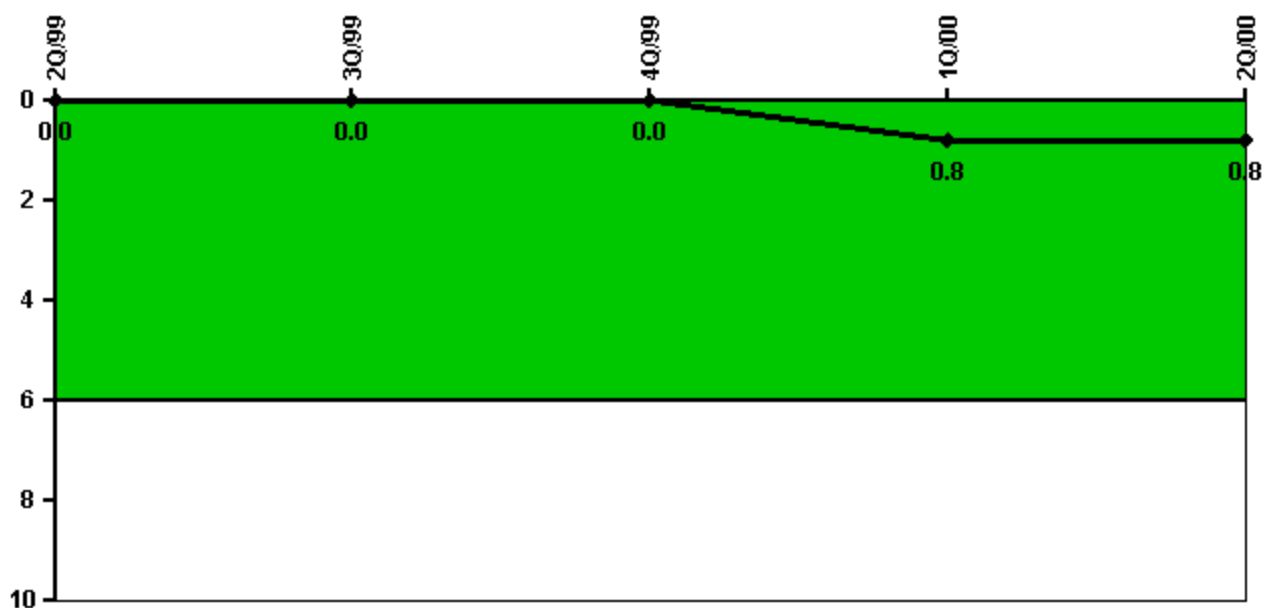
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



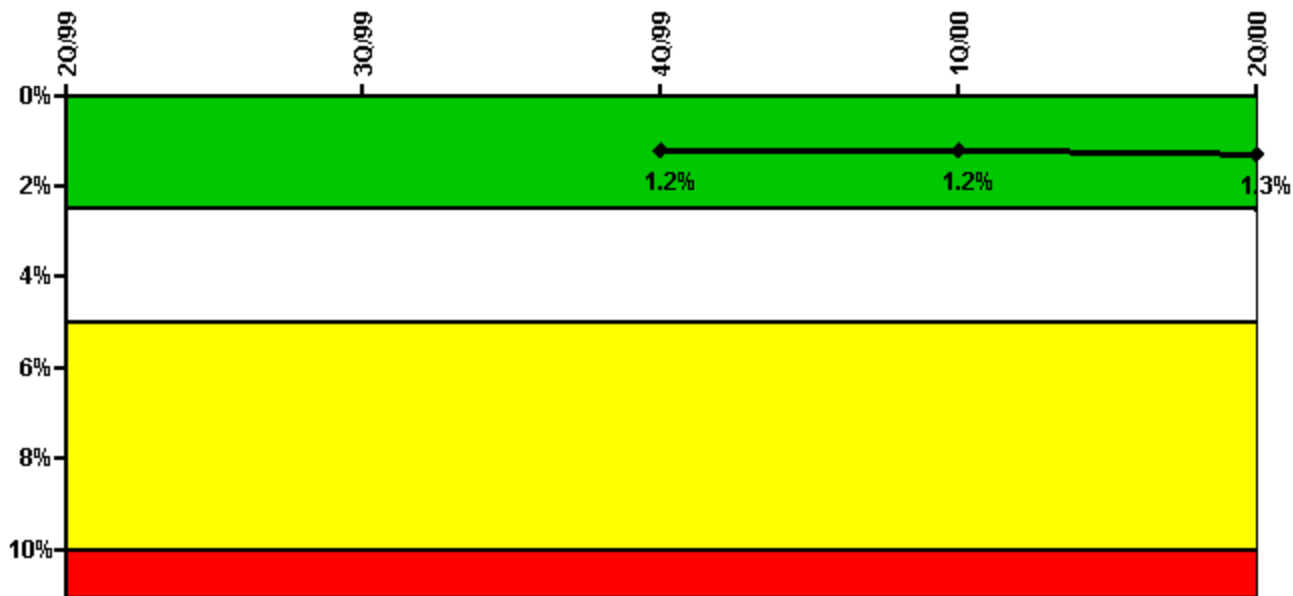
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned power changes	0	0	0	1.0	0
Critical hours	2183.0	2208.0	2209.0	2184.0	1646.0
Indicator value	0	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

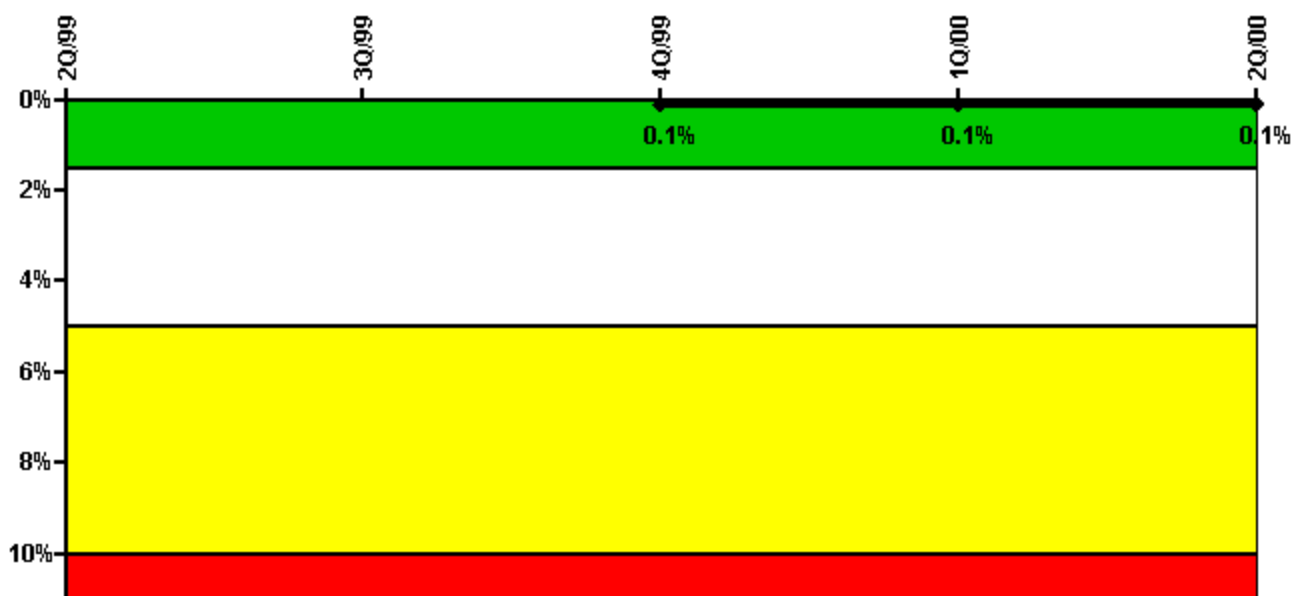
Safety System Unavailability, Emergency AC Power	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	20.60	23.00	17.30	13.40	26.60
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2076.00
Train 2					
Planned unavailable hours	52.60	15.65	41.05	26.08	16.86
Unplanned unavailable hours	0	0	0	0	50.20
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00
Indicator value			1.2%	1.2%	1.3%

Licensee Comments:

2Q/00: Due to the clarifying notes for testing and on-line planned overhaul maintenance in Revision 0 of NEI 99-02, reportable "planned unavailable hours" for this PI could be reduced. Historical data from 1Q1997 through 1Q2000 was corrected. The PI color did not change.

2Q/00: Due to the clarifying notes for testing and on-line planned overhaul maintenance in Revision 0 of NEI 99-02, reportable "planned unavailable hours" for this PI could be reduced. Historical data from 1Q1997 through 1Q2000 was corrected. The PI color did not change.

Safety System Unavailability, High Pressure Injection System (HPSI)



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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0	0	0	5.20	0
Unplanned unavailable hours	0	0	0	0	1.20
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	1699.00
Train 2					
Planned unavailable hours	0	0	0	10.00	9.70
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	1699.00
Indicator value			0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



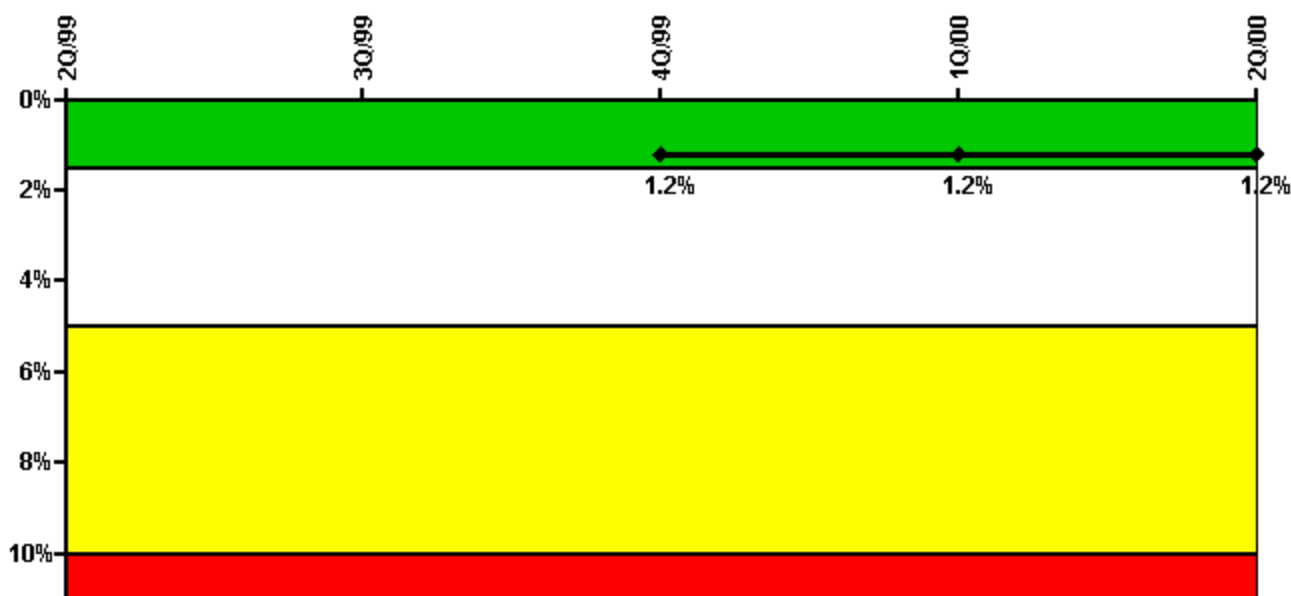
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	1.80	9.10	3.30	2.90	0.60
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	2183.00	2208.00	2209.00	2184.00	1699.00
Train 2					
Planned unavailable hours	14.30	12.40	0	1.50	1.20
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	1699.00
Train 3					
Planned unavailable hours	1.80	11.50	2.00	19.90	11.30
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	1699.00
Indicator value			0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



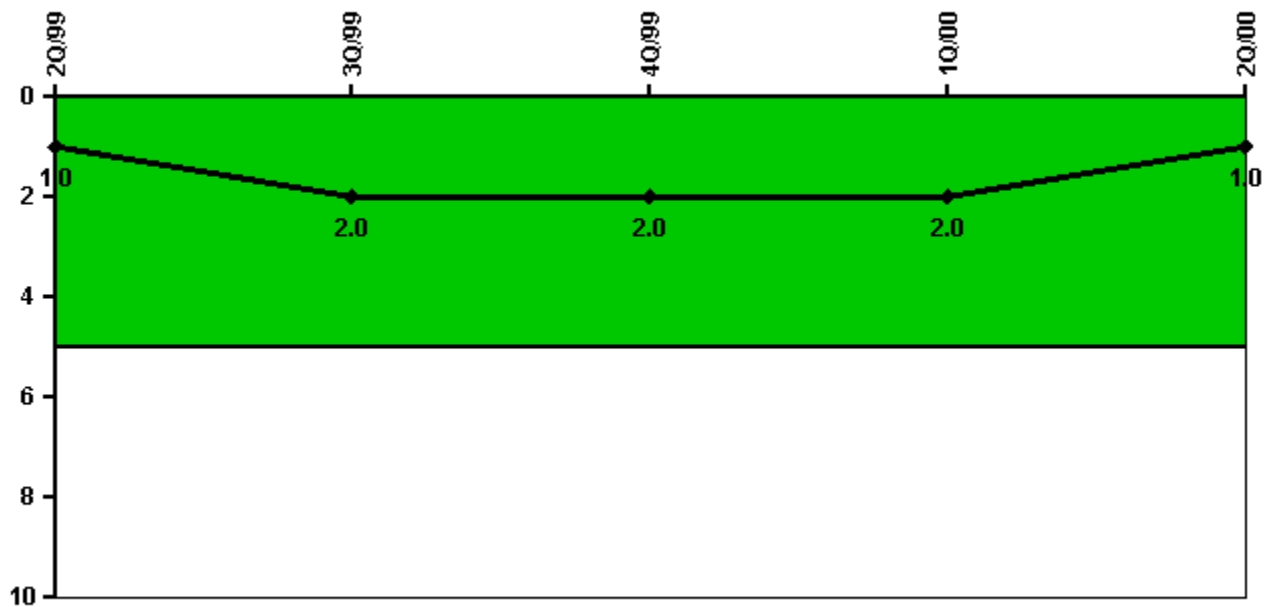
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0	0	0	10.00	0.40
Unplanned unavailable hours	0	6.30	0	0	1.50
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	1699.00
Train 2					
Planned unavailable hours	7.50	0	0	0.10	0.40
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	1699.00
Train 3					
Planned unavailable hours	0	0	0	0	10.40
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2076.00
Train 4					
Planned unavailable hours	0	0	0	0	10.50
Unplanned unavailable hours	0	0	0	0	6.80
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	2076.00
Indicator value			1.2%	1.2%	1.2%

Licensee Comments: none

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

Licensee Comments: none

Reactor Coolant System Activity



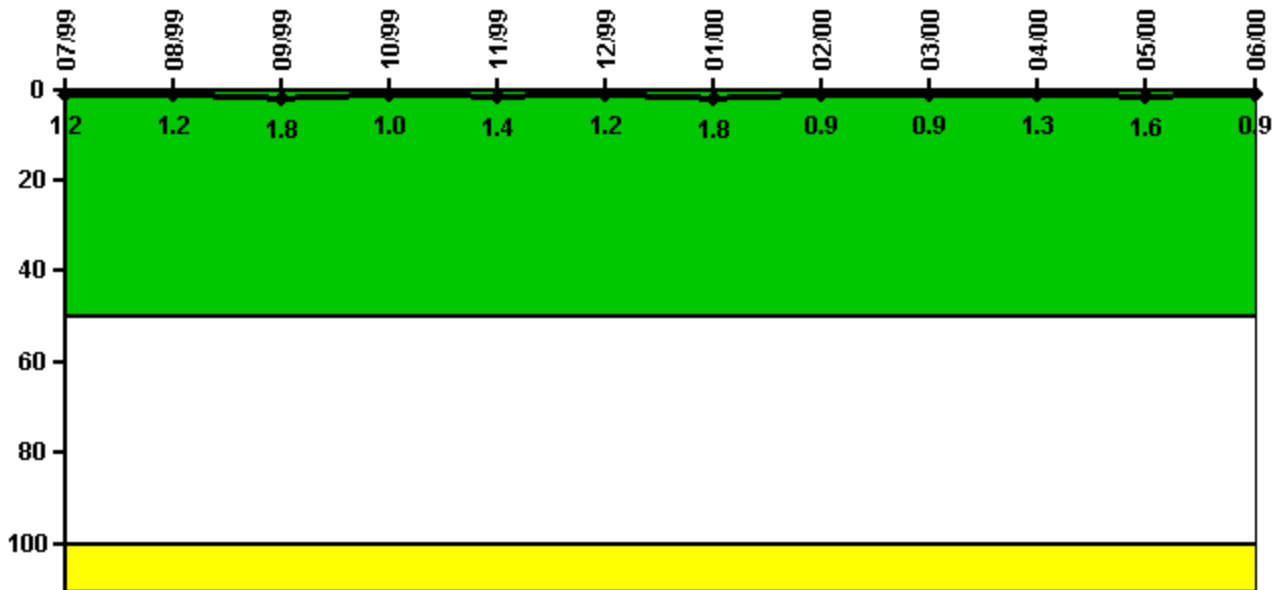
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum activity	0.003820	0.003810	0.003930	0.004070	0.004460	0.004370	0.004500	0.004660	0.005130	0.003910	0.001360	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	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.1	0.2

Licensee Comments: none

Reactor Coolant System Leakage



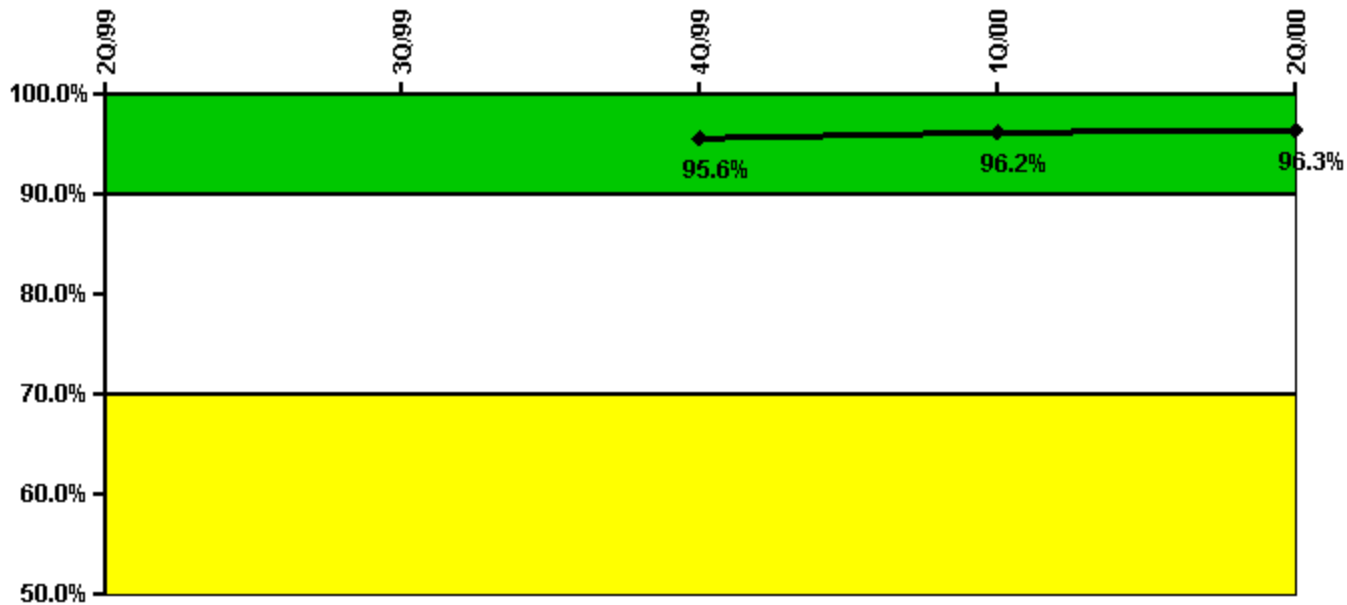
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum leakage	0.120	0.120	0.180	0.100	0.140	0.120	0.180	0.090	0.090	0.130	0.160	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.2	1.2	1.8	1.0	1.4	1.2	1.8	0.9	0.9	1.3	1.6	0.9

Licensee Comments: none

Drill/Exercise Performance



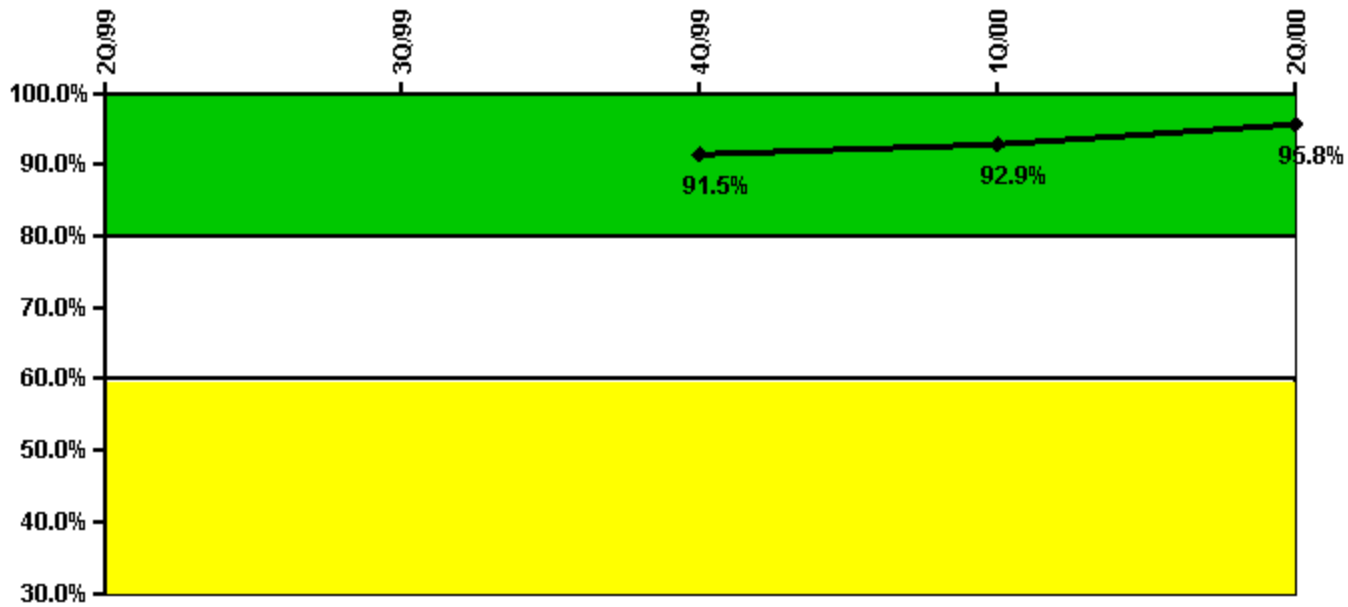
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful opportunities	6.0	9.0	78.0	44.0	7.0
Total opportunities	8.0	9.0	81.0	45.0	7.0
Indicator value			95.6%	96.2%	96.3%

Licensee Comments: none

ERO Drill Participation



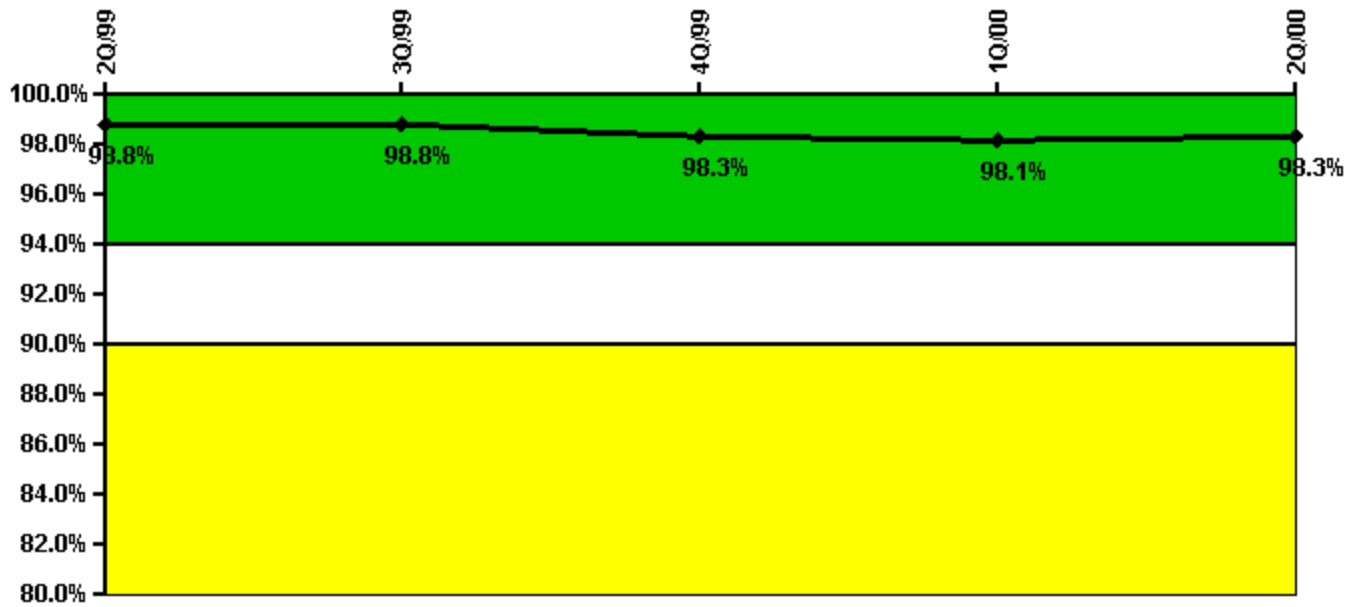
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Participating Key personnel			151.0	157.0	158.0
Total Key personnel			165.0	169.0	165.0
Indicator value			91.5%	92.9%	95.8%

Licensee Comments: none

Alert & Notification System



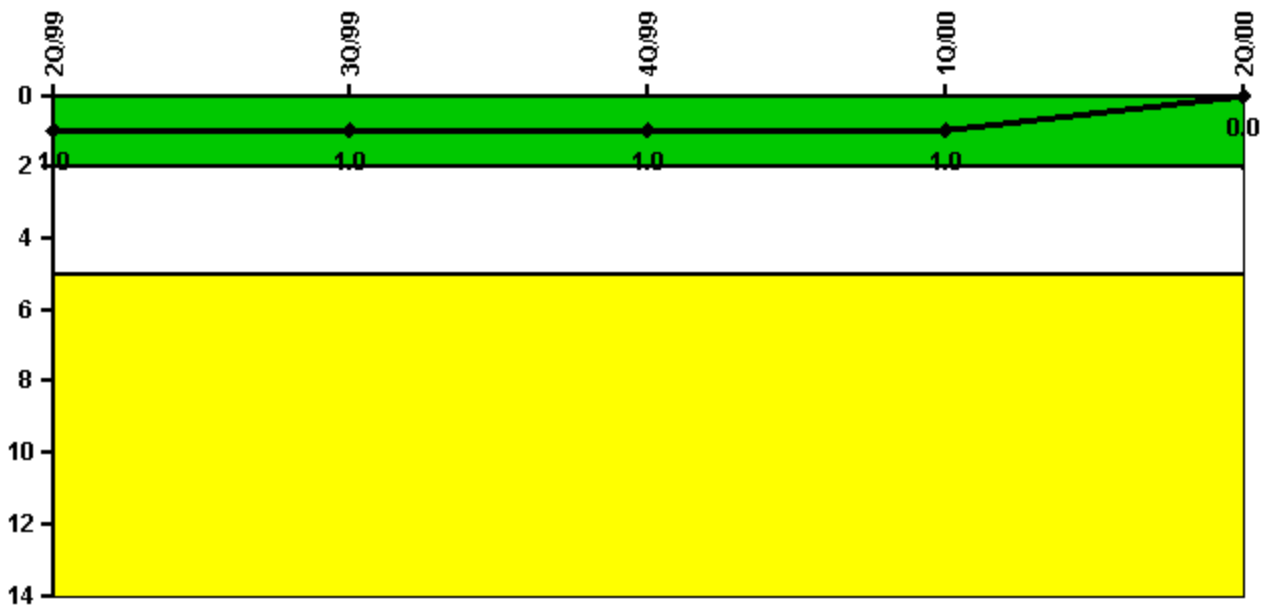
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful siren-tests	417	493	492	498	441
Total sirens-tests	427	500	504	506	448
Indicator value	98.8%	98.8%	98.3%	98.1%	98.3%

Licensee Comments: none

Occupational Exposure Control Effectiveness



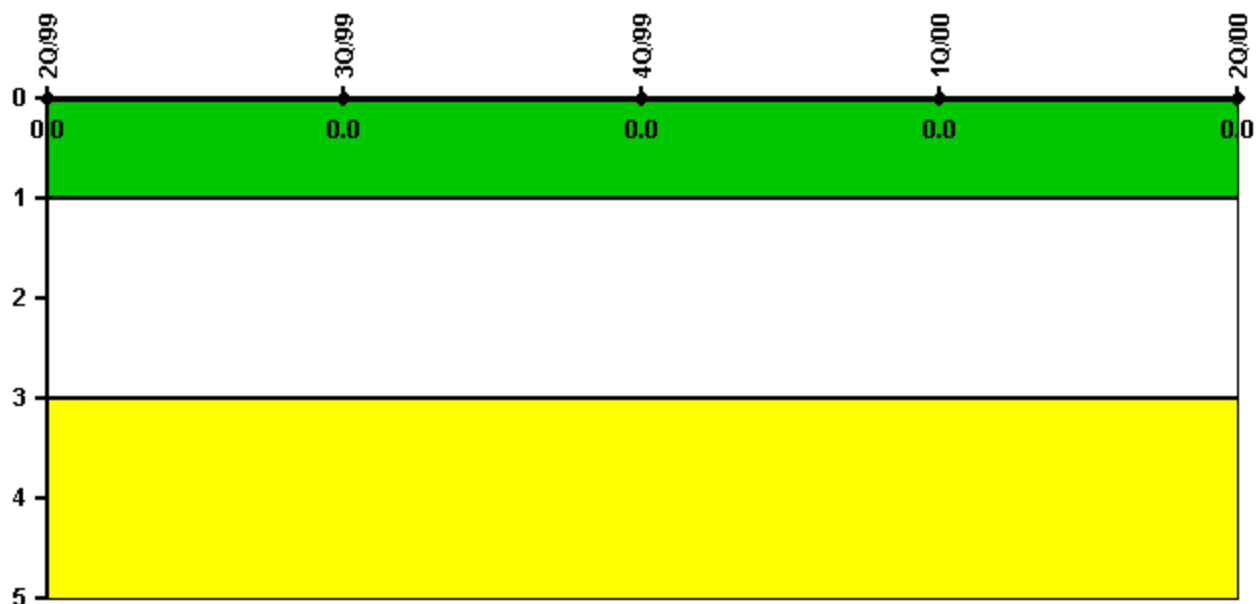
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



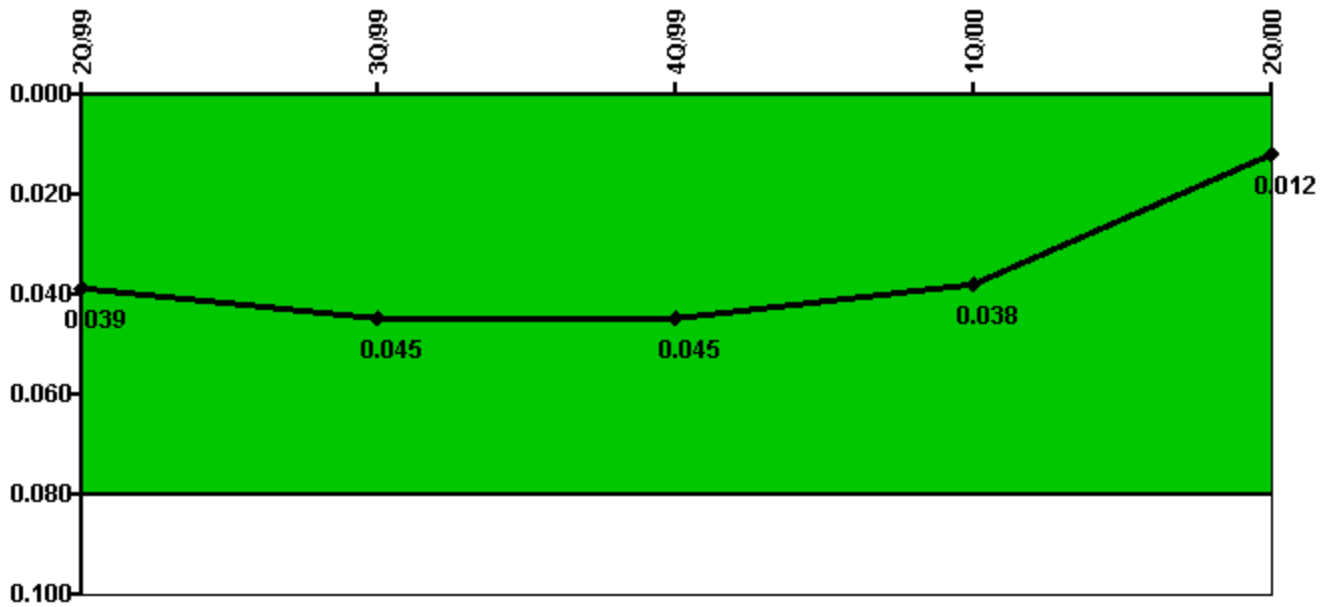
Thresholds: White > 1.0 Yellow > 3.0

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

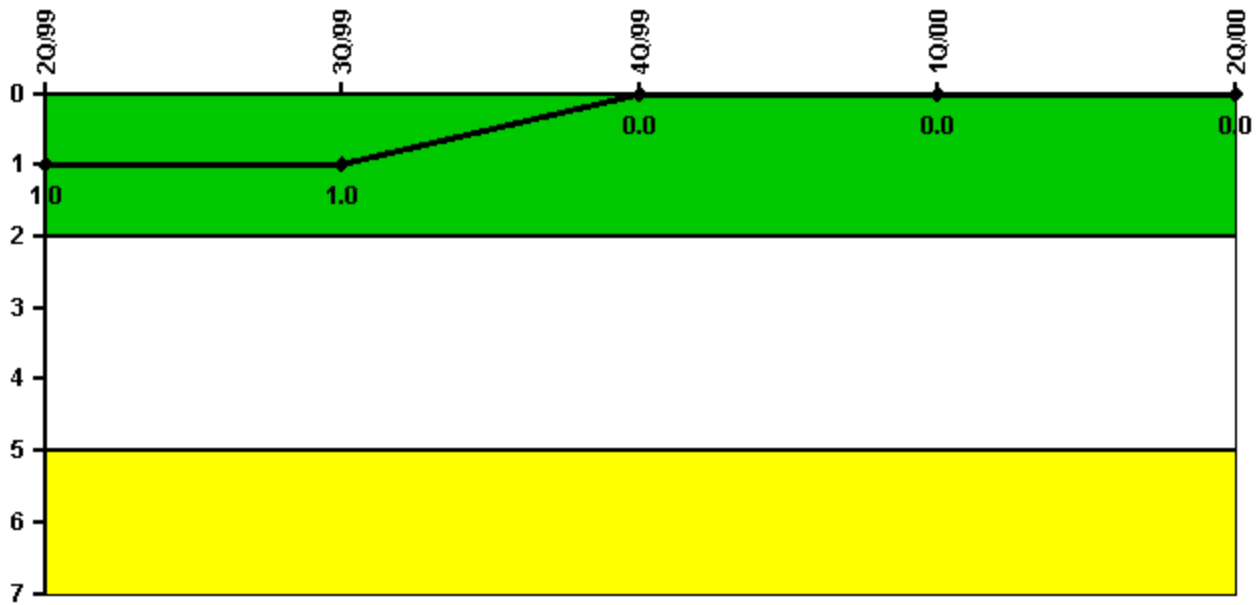
Notes

Protected Area Security Performance Index	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
IDS compensatory hours	548.00	124.30	8.20	26.05	59.40
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	0.039	0.045	0.045	0.038	0.012

Licensee Comments:

2Q/00: The Protected Area perimeter threat assessment function at Surry is primarily provided by armed response personnel in towers. This performance data reflects one CCTV camera which covers the part of the perimeter not covered by a tower.

Personnel Screening Program



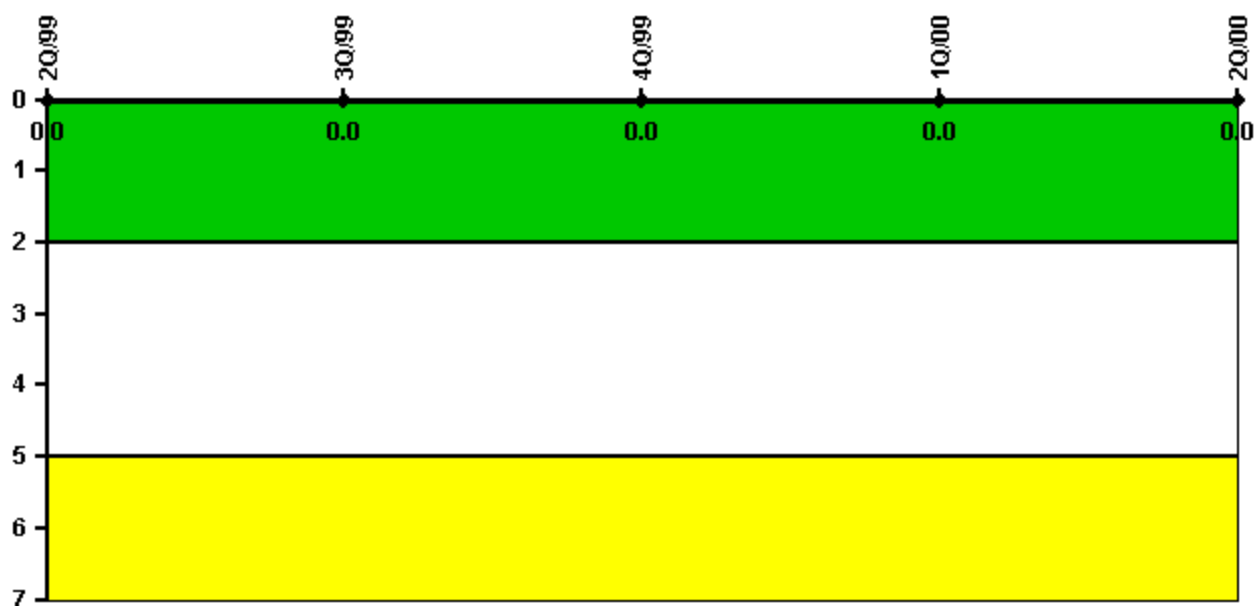
Thresholds: White > 2.0 Yellow > 5.0

Notes

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



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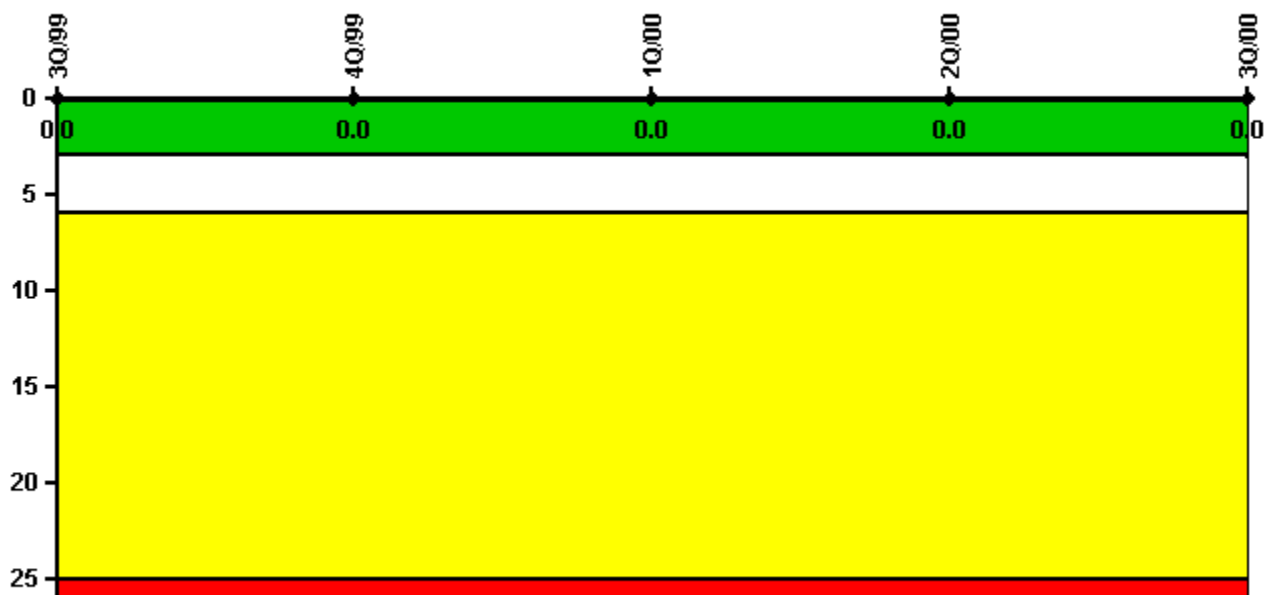
Last Modified: April 1, 2002

Surry 1

3Q/2000 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned scrams	0	0	0	0	0
Critical hours	2208.0	2209.0	2184.0	1646.0	2208.0
Indicator value	0	0	0	0	0

Licensee Comments:

3Q/00: Hours of critical operation for April and May, 2000 were inaccurate. April's data did not compensate for Daylight Savings Time (1 hour) and May's data miscalculated the post refueling outage critical hours by 1 day (24 hours). Second quarter data was corrected with no change in color.

Scrams with Loss of Normal Heat Removal



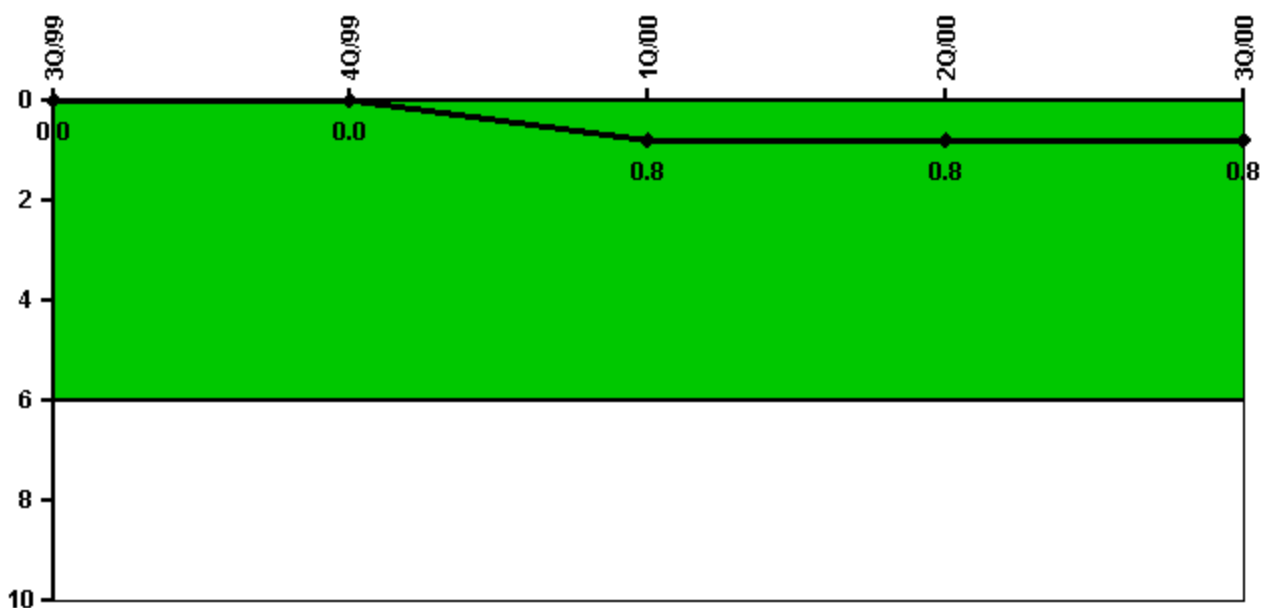
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

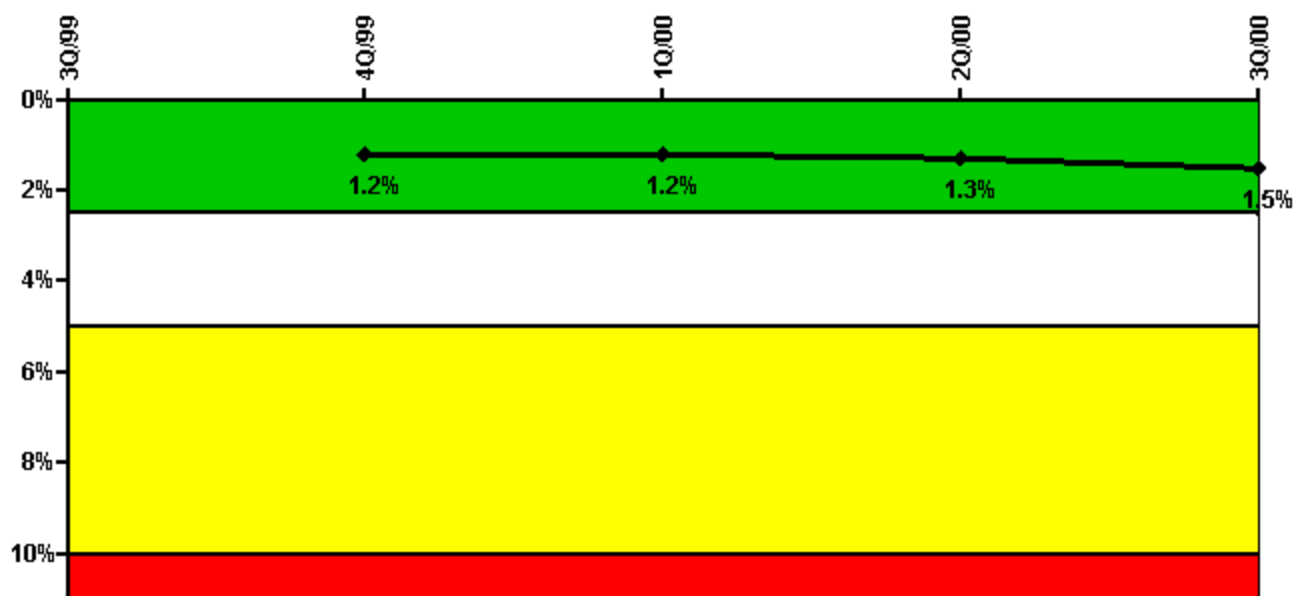
Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned power changes	0	0	1.0	0	0
Critical hours	2208.0	2209.0	2184.0	1646.0	2208.0
Indicator value	0	0	0.8	0.8	0.8

Licensee Comments:

3Q/00: Hours of critical operation for April and May, 2000 were inaccurate. April's data did not compensate for Daylight Savings Time (1 hour) and May's data miscalculated the post refueling outage critical hours by 1 day (24 hours). Second quarter data was corrected with no change in color.

Safety System Unavailability, Emergency AC Power



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

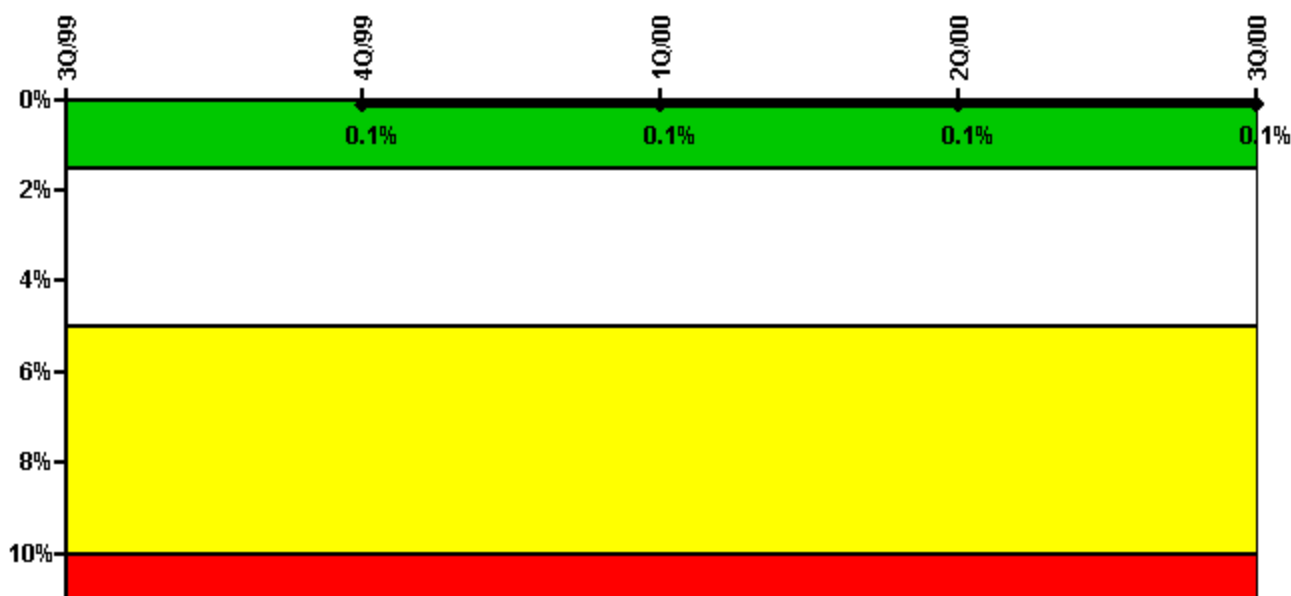
Notes

Safety System Unavailability, Emergency AC Power	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	23.00	17.30	13.40	26.60	17.39
Unplanned unavailable hours	0	0	0	0	83.68
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2076.00	2208.00
Train 2					
Planned unavailable hours	15.65	41.05	26.08	16.86	33.78
Unplanned unavailable hours	0	0	0	50.20	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value		1.2%	1.2%	1.3%	1.5%

Licensee Comments:

2Q/00: Due to the clarifying notes for testing and on-line planned overhaul maintenance in Revision 0 of NEI 99-02, reportable "planned unavailable hours" for this PI could be reduced. Historical data from 1Q1997 through 1Q2000 was corrected. The PI color did not change.

Safety System Unavailability, High Pressure Injection System (HPSI)



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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	0	0	5.20	0	0
Unplanned unavailable hours	0	0	0	1.20	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	1699.00	2208.00
Train 2					
Planned unavailable hours	0	0	10.00	9.70	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	2184.00	1699.00	2208.00
Indicator value		0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



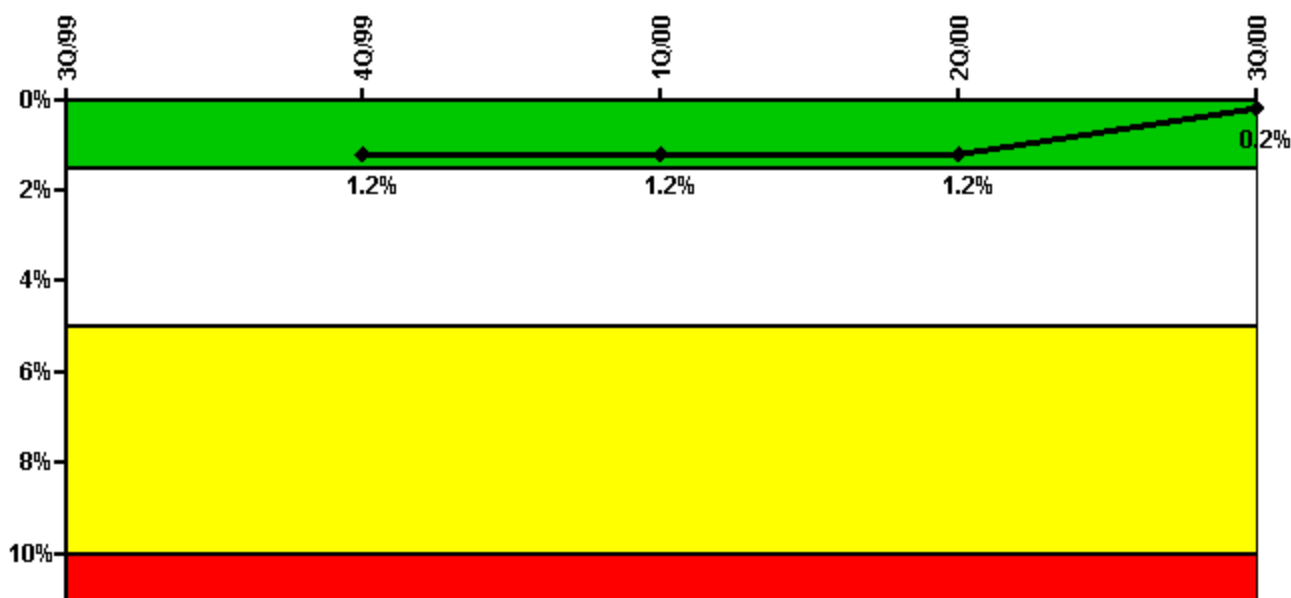
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	9.10	3.30	2.90	0.60	3.19
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	1699.00	2208.00
Train 2					
Planned unavailable hours	12.40	0	1.50	1.20	0.92
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	1699.00	2208.00
Train 3					
Planned unavailable hours	11.50	2.00	19.90	11.30	2.48
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	1699.00	2197.00
Indicator value		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/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	0	0	10.00	0.40	0.58
Unplanned unavailable hours	6.30	0	0	1.50	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	1699.00	2208.00
Train 2					
Planned unavailable hours	0	0	0.10	0.40	13.15
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	1015.00
Required hours	2208.00	2209.00	2184.00	1699.00	2208.00
Train 3					
Planned unavailable hours	0	0	0	10.40	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	2184.00	2076.00	2208.00
Train 4					
Planned unavailable hours	0	0	0	10.50	0
Unplanned unavailable hours	0	0	0	6.80	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	2076.00	2208.00
Indicator value		1.2%	1.2%	1.2%	0.2%

Licensee Comments:

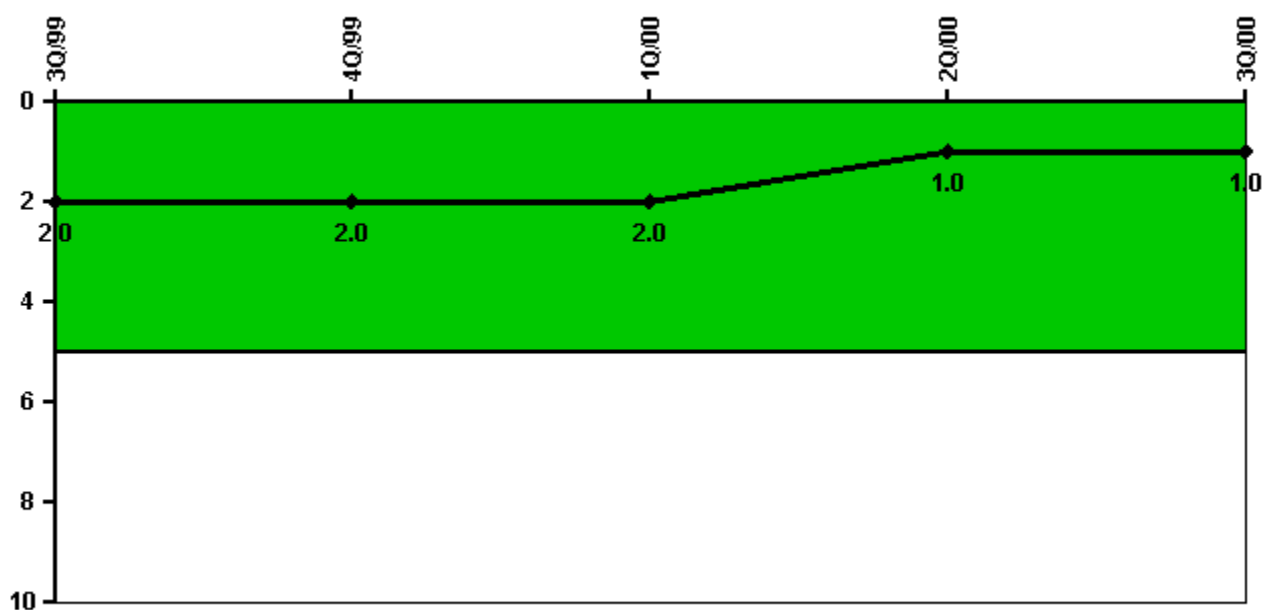
3Q/00: Fault exposure hours for Train 2 for February, 1999 have been removed as allowed by NEI 99-02, Rev. 0

3Q/00: Fault exposure hours for Train 2 for February, 1999 have been removed as allowed by NEI 99-02, Rev. 0

Effective Reset Comments:

3Q/00: Previously reset hours were reset under the new process.

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

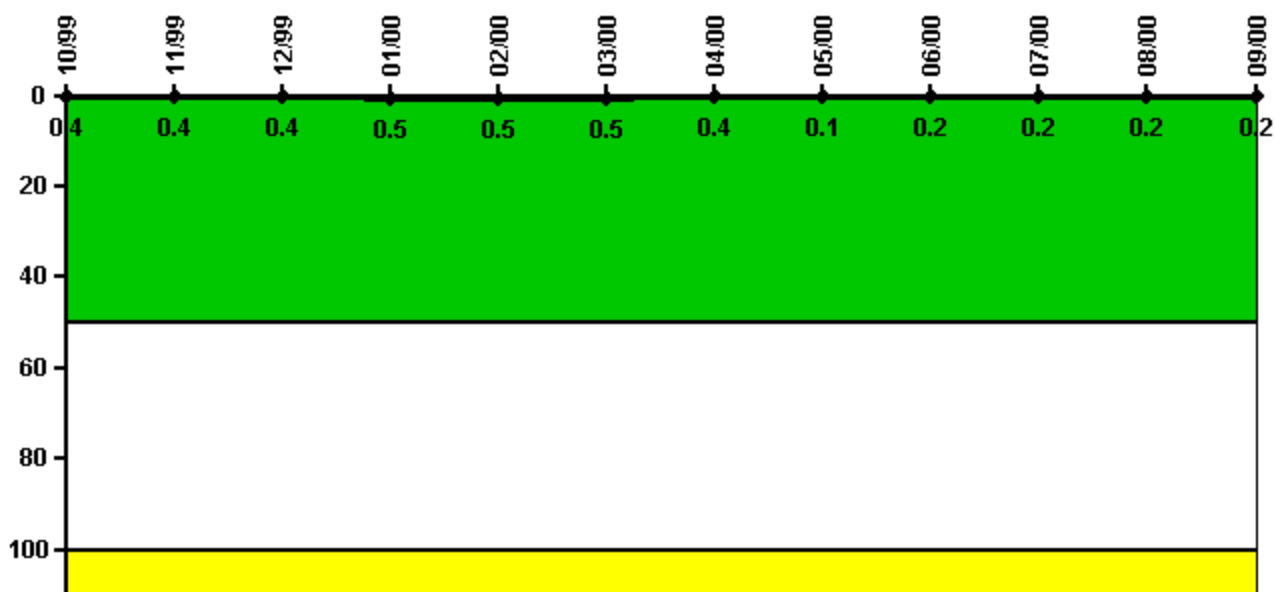
Notes

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

Licensee Comments:

3Q/00: Refer to Licensing Event Report 50-280, 281/00002-00

Reactor Coolant System Activity



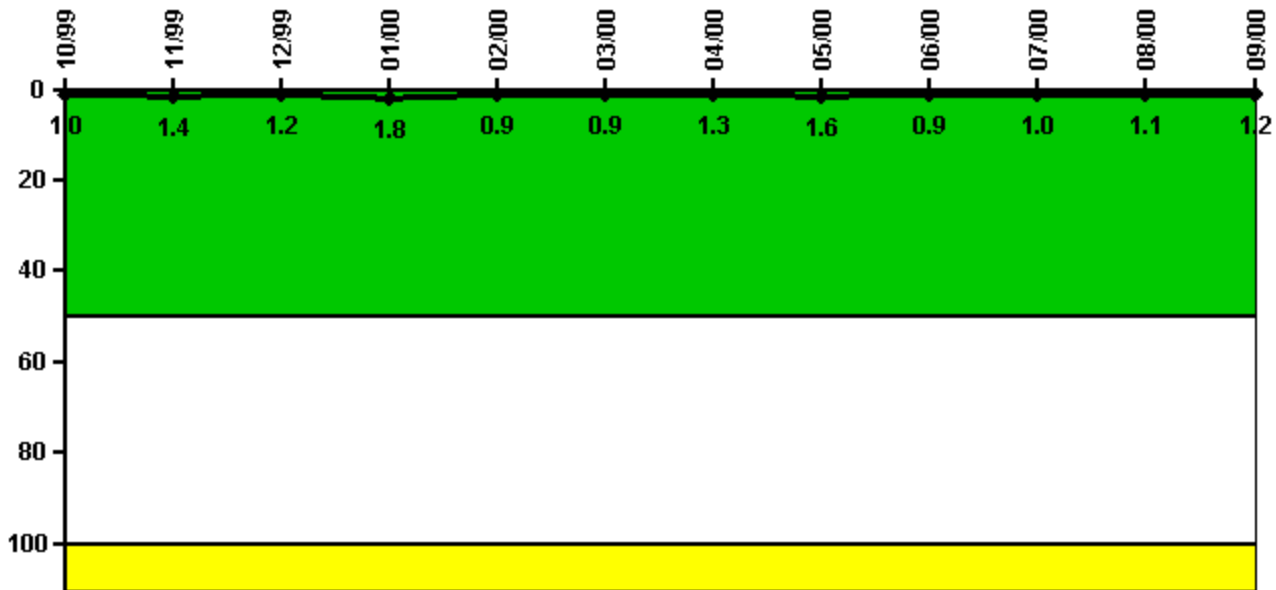
Thresholds: White > 50.0 Yellow > 100.0

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	0.004070	0.004460	0.004370	0.004500	0.004660	0.005130	0.003910	0.001360	0.001720	0.001550	0.001770	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	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.1	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



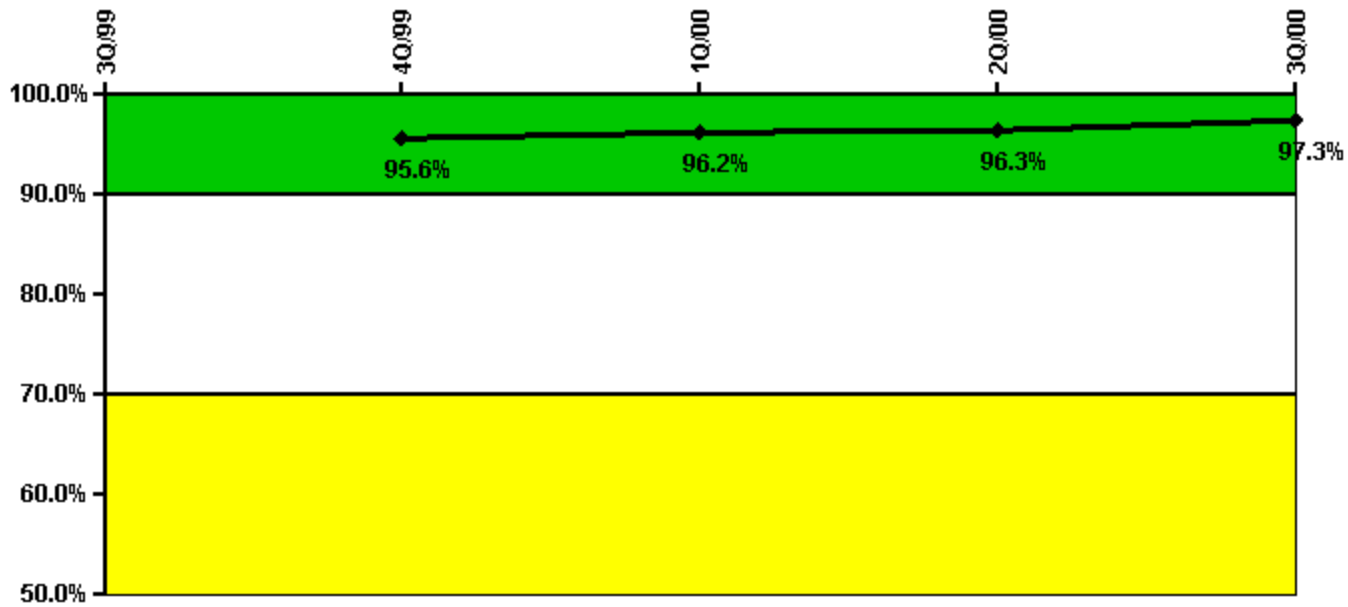
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.100	0.140	0.120	0.180	0.090	0.090	0.130	0.160	0.090	0.100	0.110	0.120
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.4	1.2	1.8	0.9	0.9	1.3	1.6	0.9	1.0	1.1	1.2

Licensee Comments: none

Drill/Exercise Performance



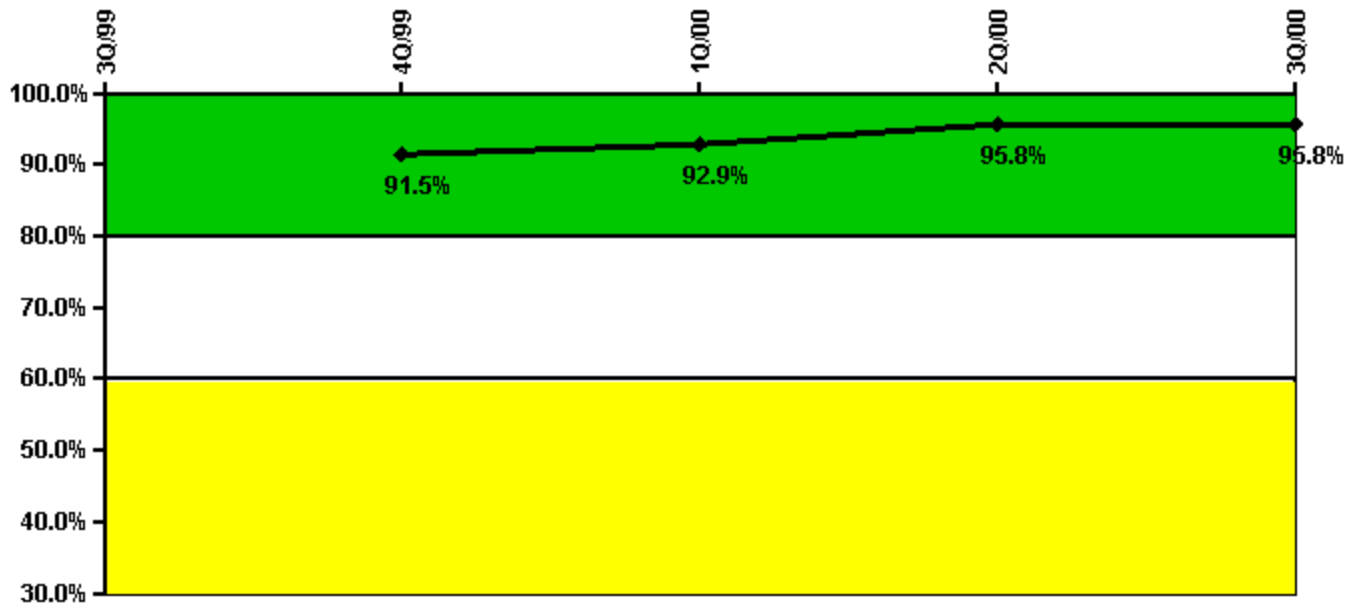
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful opportunities	9.0	78.0	44.0	7.0	72.0
Total opportunities	9.0	81.0	45.0	7.0	72.0
Indicator value		95.6%	96.2%	96.3%	97.3%

Licensee Comments: none

ERO Drill Participation



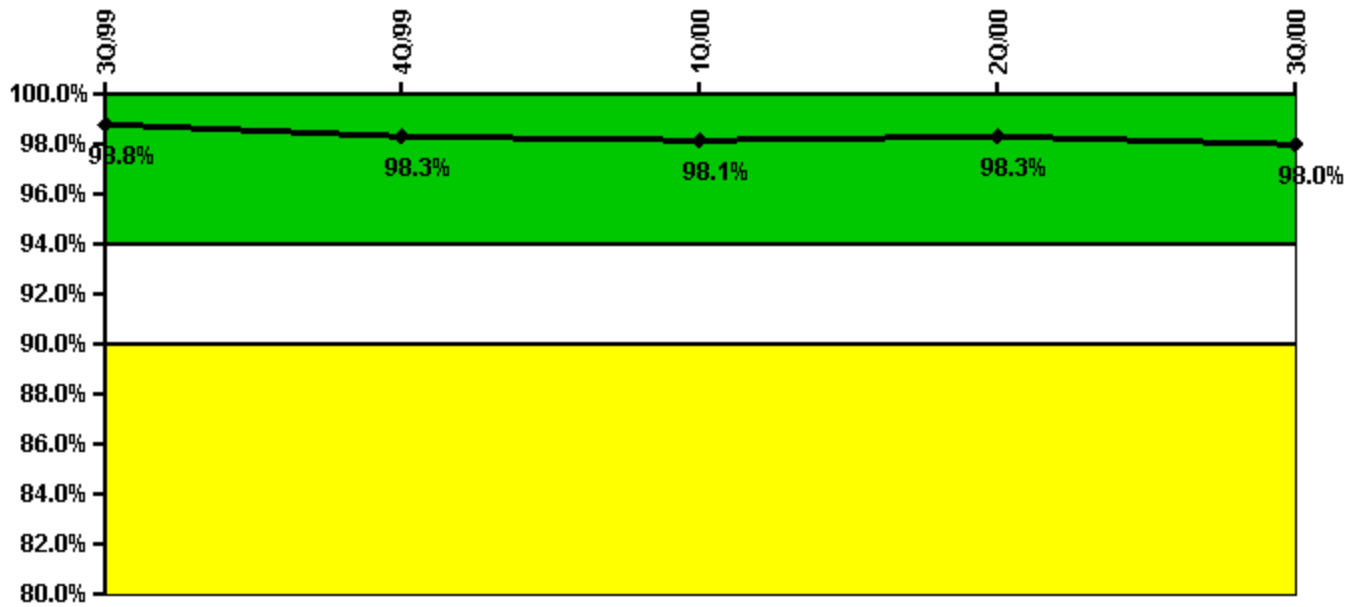
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Participating Key personnel		151.0	157.0	158.0	161.0
Total Key personnel		165.0	169.0	165.0	168.0
Indicator value		91.5%	92.9%	95.8%	95.8%

Licensee Comments: none

Alert & Notification System



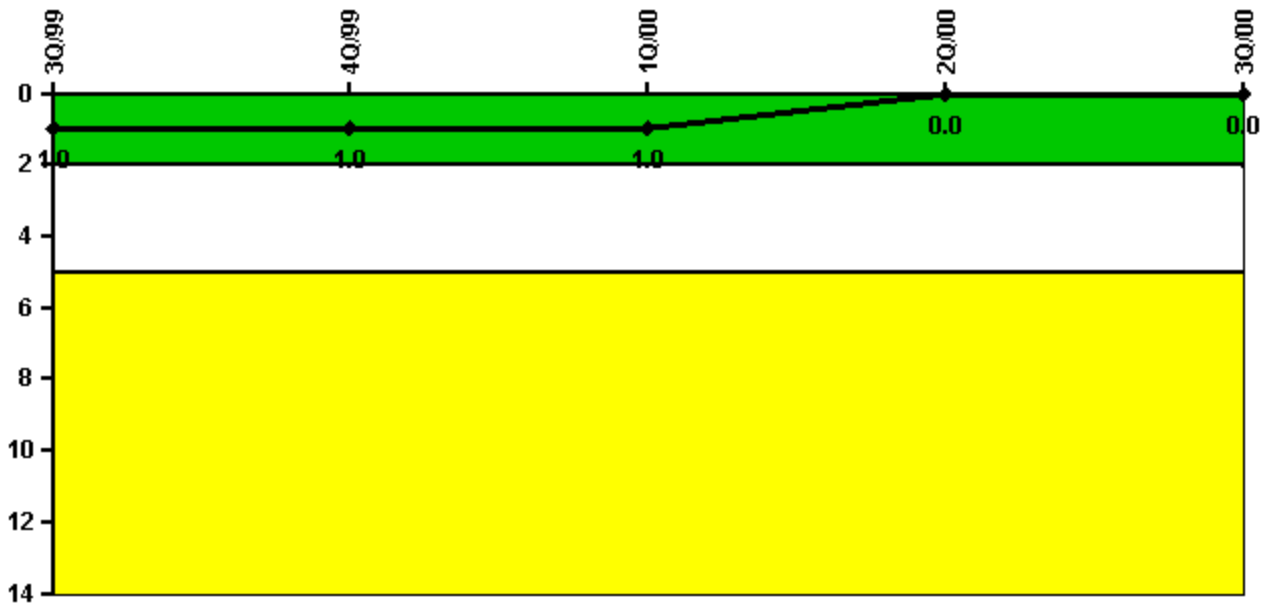
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful siren-tests	493	492	498	441	437
Total sirens-tests	500	504	506	448	448
Indicator value	98.8%	98.3%	98.1%	98.3%	98.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



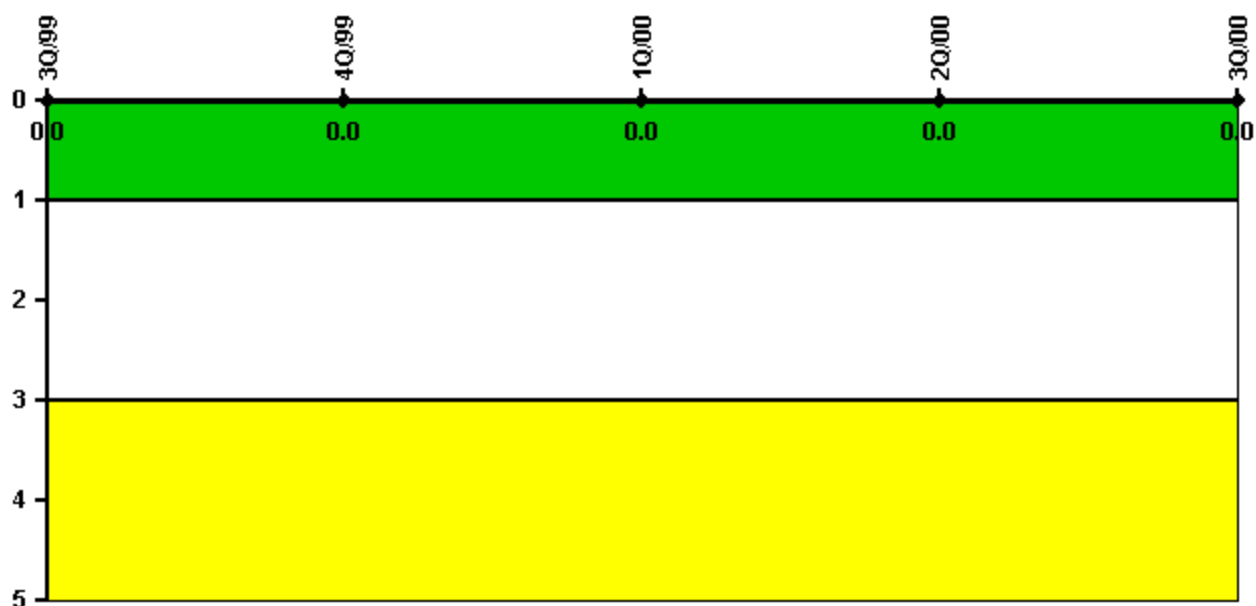
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



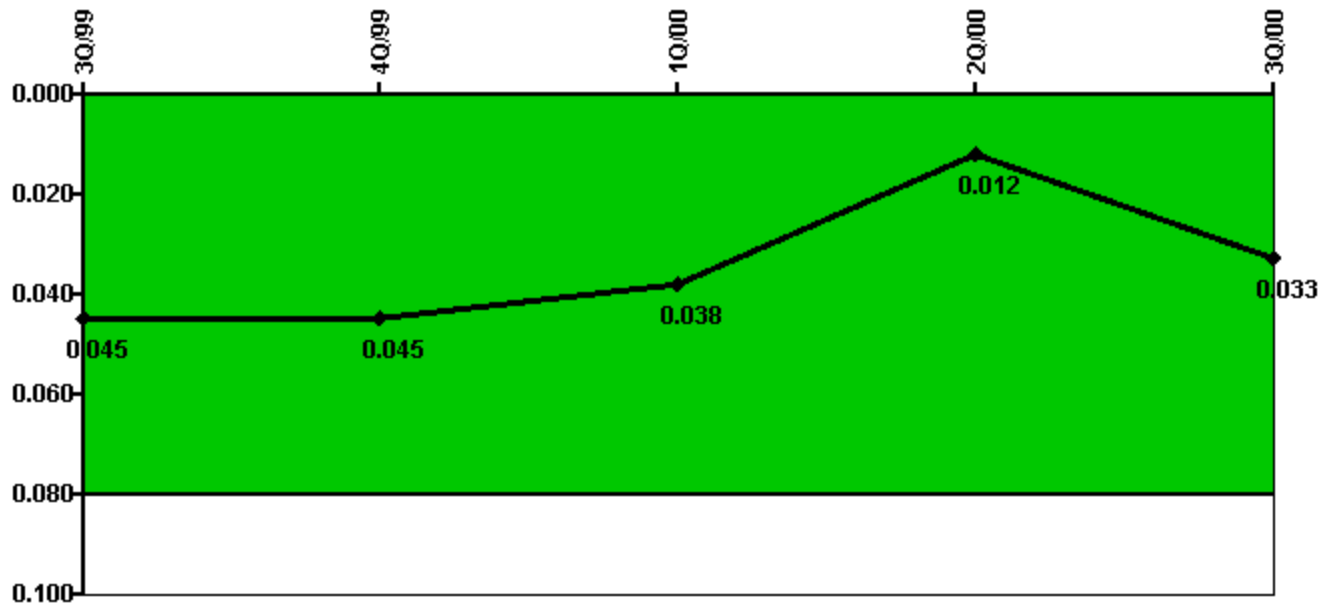
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

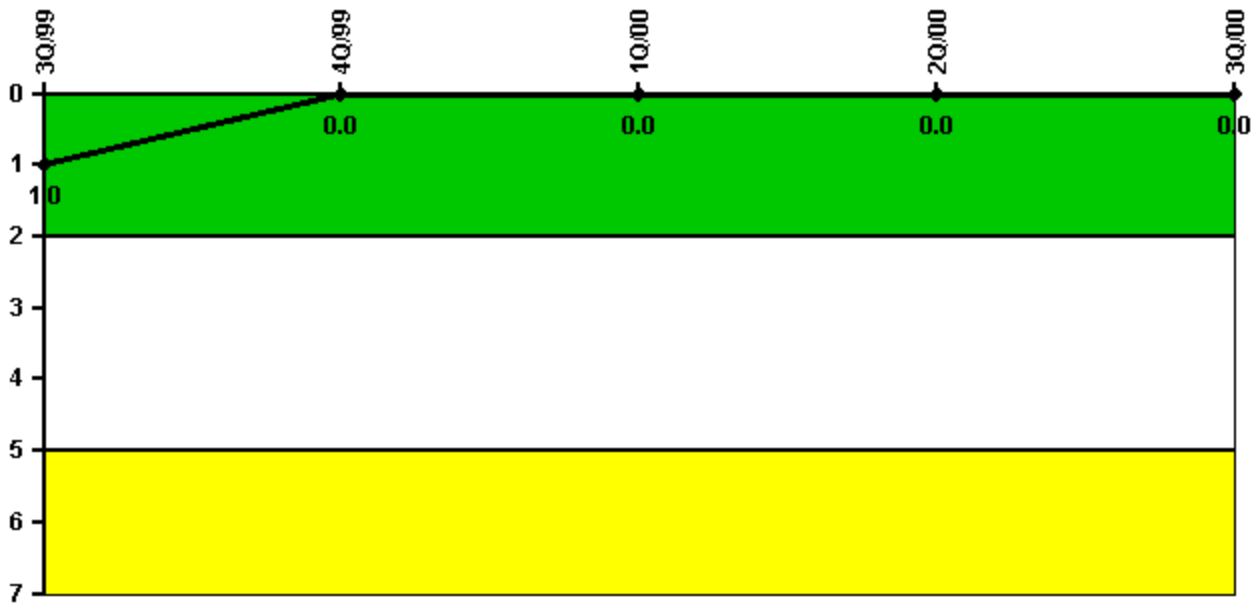
Notes

Protected Area Security Performance Index	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
IDS compensatory hours	124.30	8.20	26.05	59.40	513.85
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	0.045	0.045	0.038	0.012	0.033

Licensee Comments:

3Q/00: The Protected Area perimeter threat assessment function at Surry is primarily provided by armed response personnel in towers. This performance data reflects one CCTV camera which covers the part of the perimeter not covered by a tower.

Personnel Screening Program



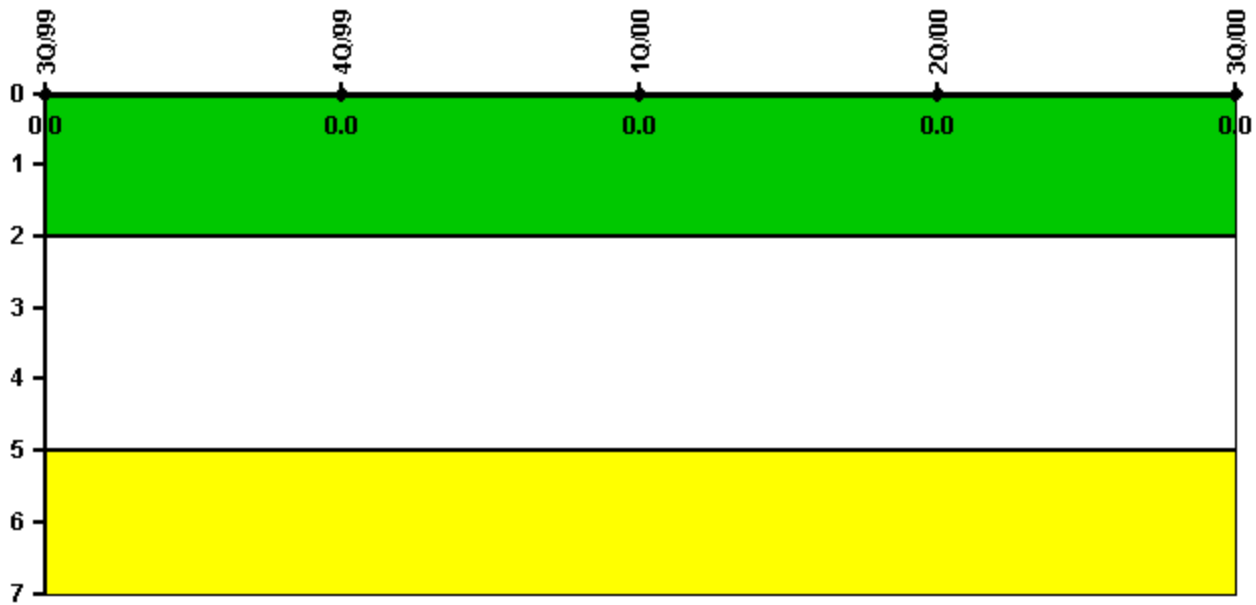
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none



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

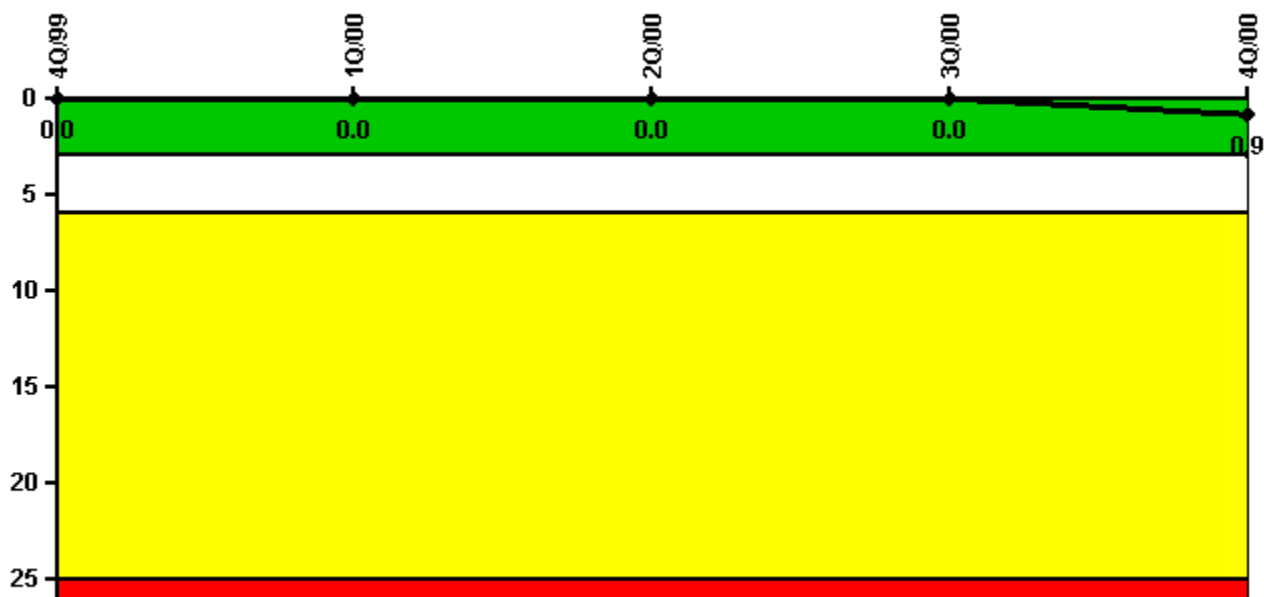
Last Modified: March 29, 2002

Surry 1

4Q/2000 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



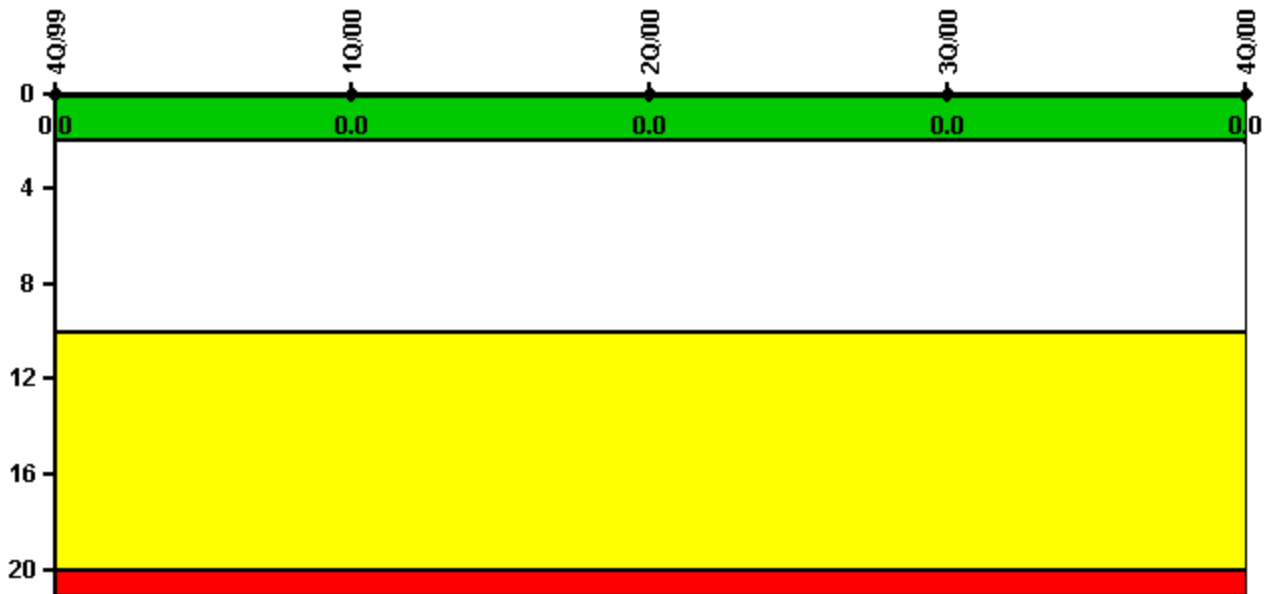
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned scrams	0	0	0	0	1.0
Critical hours	2209.0	2184.0	1646.0	2208.0	2189.6
Indicator value	0	0	0	0	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



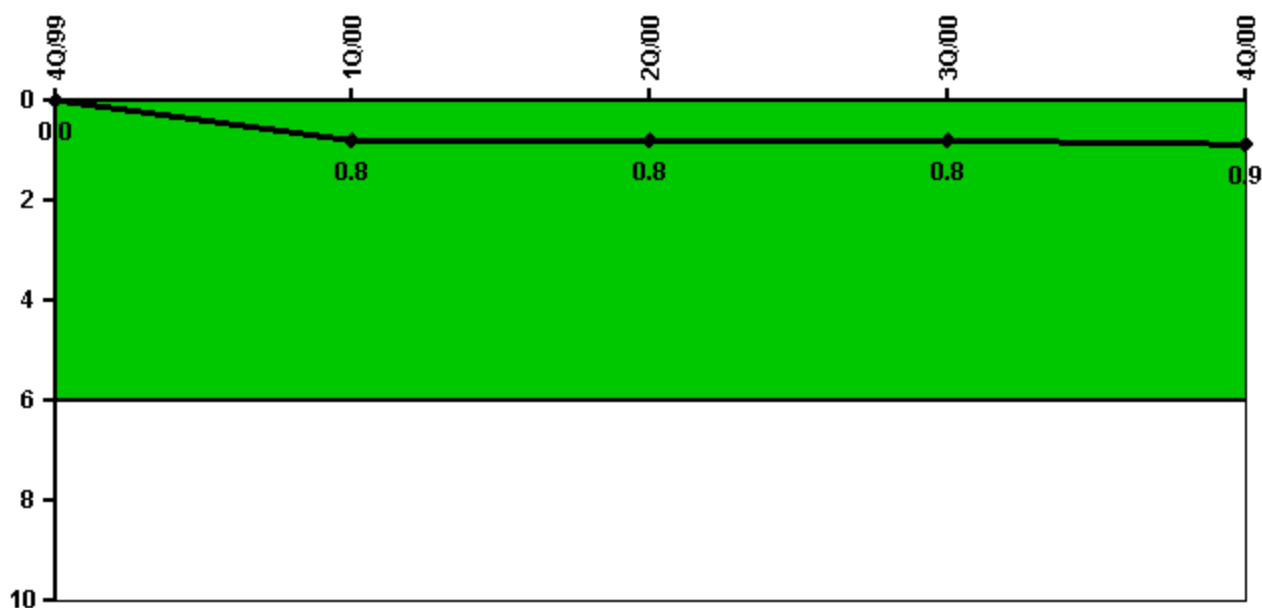
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



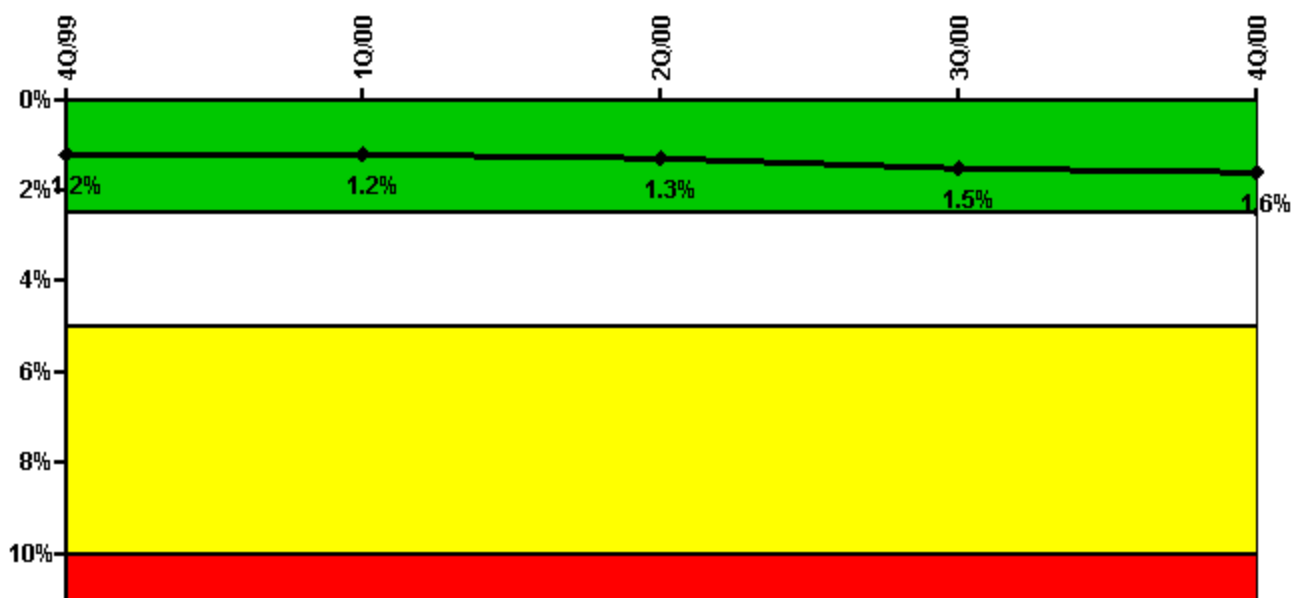
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned power changes	0	1.0	0	0	0
Critical hours	2209.0	2184.0	1646.0	2208.0	2189.6
Indicator value	0	0.8	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%

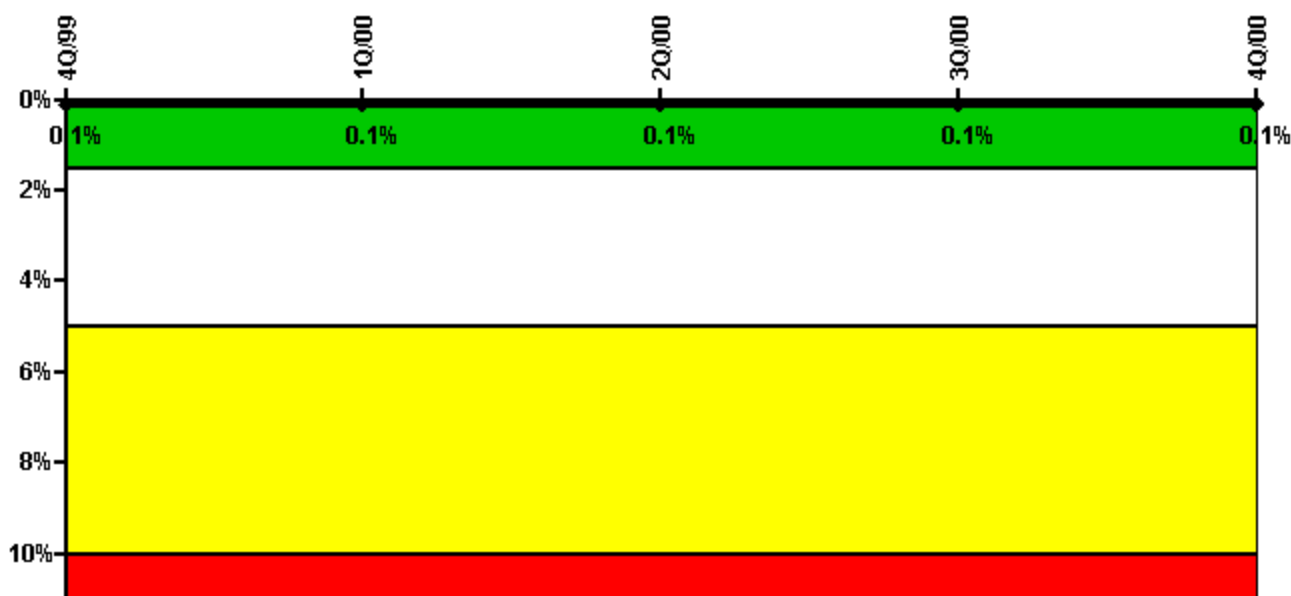
Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	17.30	13.40	26.60	17.39	11.50
Unplanned unavailable hours	0	0	0	83.68	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2076.00	2208.00	2209.00
Train 2					
Planned unavailable hours	41.05	26.08	16.86	33.78	19.74
Unplanned unavailable hours	0	0	50.20	0	10.30
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Indicator value	1.2%	1.2%	1.3%	1.5%	1.6%

Licensee Comments:

2Q/00: Due to the clarifying notes for testing and on-line planned overhaul maintenance in Revision 0 of NEI 99-02, reportable "planned unavailable hours" for this PI could be reduced. Historical data from 1Q1997 through 1Q2000 was corrected. The PI color did not change.

Safety System Unavailability, High Pressure Injection System (HPSI)



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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	0	5.20	0	0	0
Unplanned unavailable hours	0	0	1.20	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00
Train 2					
Planned unavailable hours	0	10.00	9.70	0	1.00
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



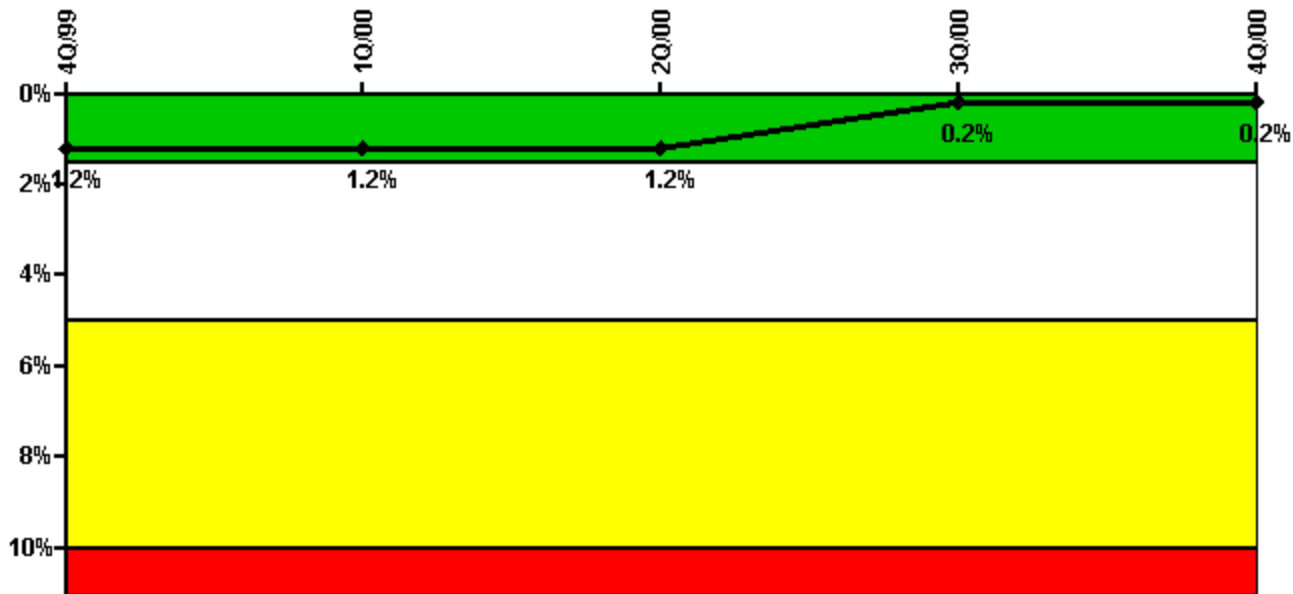
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	3.30	2.90	0.60	3.19	15.57
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00
Train 2					
Planned unavailable hours	0	1.50	1.20	0.92	2.23
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00
Train 3					
Planned unavailable hours	2.00	19.90	11.30	2.48	18.20
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2197.00	2209.00
Indicator value	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/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	0	10.00	0.40	0.58	0
Unplanned unavailable hours	0	0	1.50	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00
Train 2					
Planned unavailable hours	0	0.10	0.40	13.15	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	1015.00	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00
Train 3					
Planned unavailable hours	0	0	10.40	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	2184.00	2076.00	2208.00	2209.00
Train 4					
Planned unavailable hours	0	0	10.50	0	0
Unplanned unavailable hours	0	0	6.80	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2076.00	2208.00	2209.00
Indicator value	1.2%	1.2%	1.2%	0.2%	0.2%

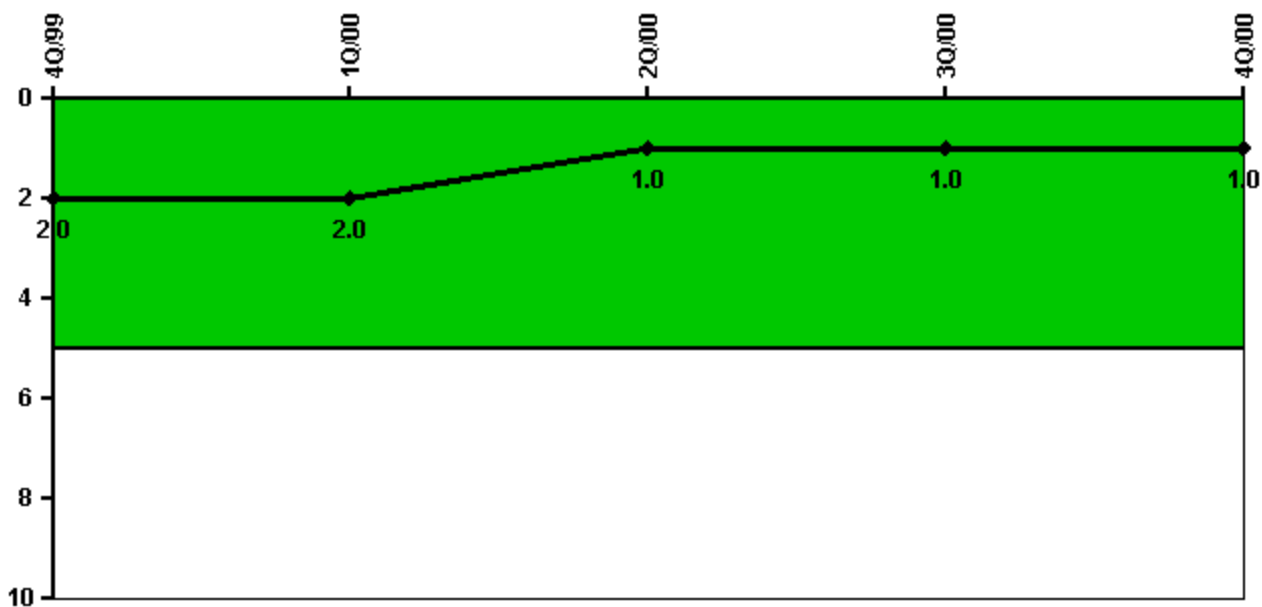
Licensee Comments:

3Q/00: Fault exposure hours for Train 2 for February, 1999 have been removed as allowed by NEI 99-02, Rev. 0

Effective Reset Comments:

3Q/00: Previously reset hours were reset under the new process.

Safety System Functional Failures (PWR)



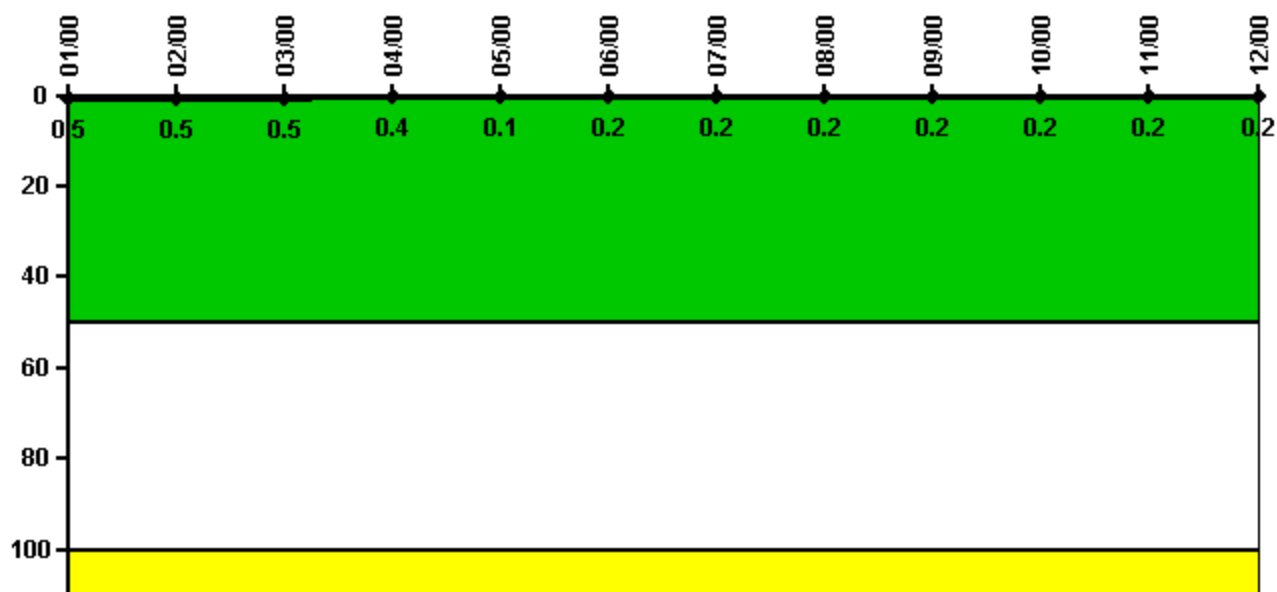
Thresholds: White > 5.0

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	2	1	1	1

Licensee Comments: none

Reactor Coolant System Activity



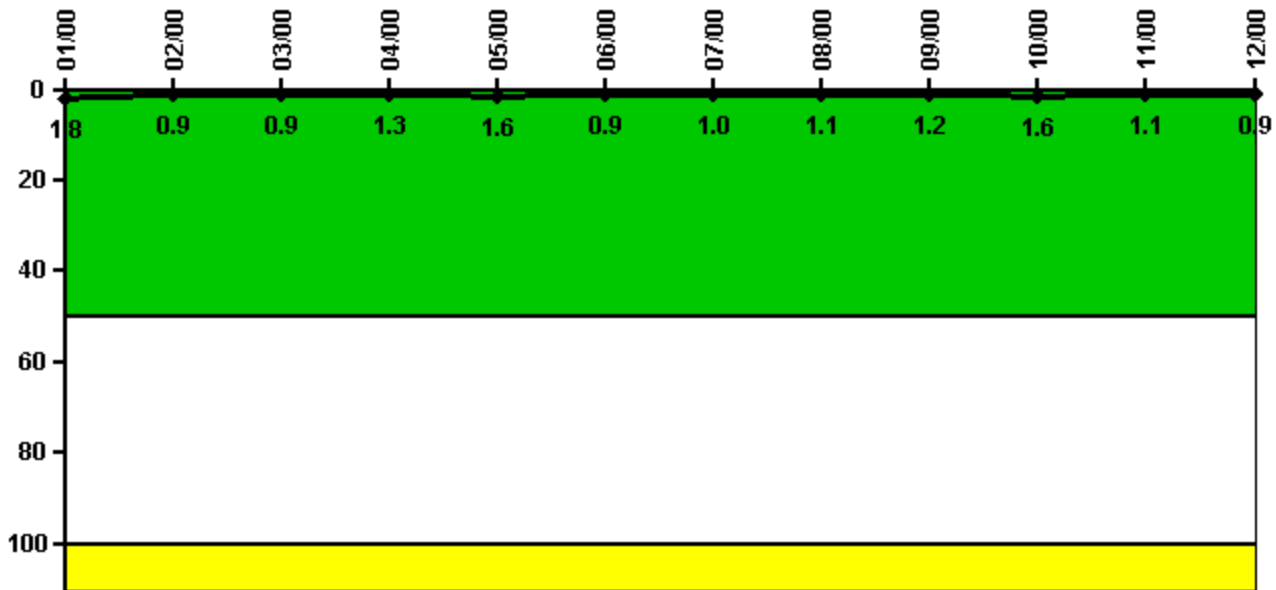
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum activity	0.004500	0.004660	0.005130	0.003910	0.001360	0.001720	0.001550	0.001770	0.002050	0.002060	0.002060	0.002000
Technical specification limit	1.0	1.0	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	0.4	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



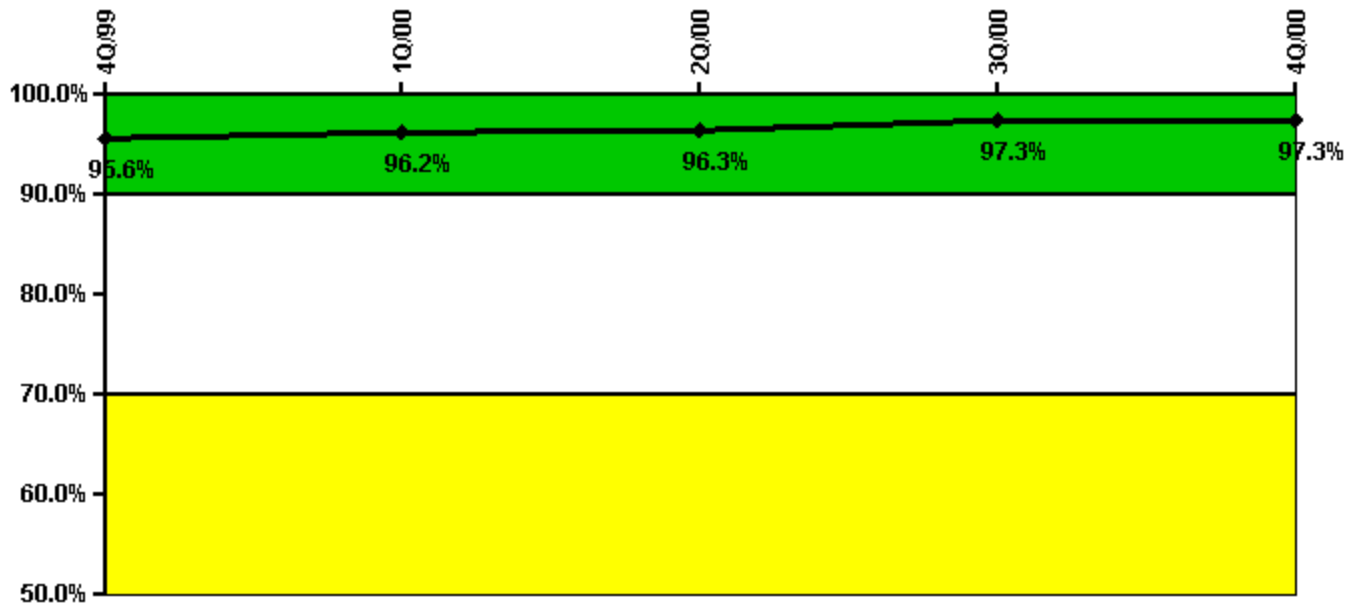
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage	0.180	0.090	0.090	0.130	0.160	0.090	0.100	0.110	0.120	0.160	0.110	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.8	0.9	0.9	1.3	1.6	0.9	1.0	1.1	1.2	1.6	1.1	0.9

Licensee Comments: none

Drill/Exercise Performance



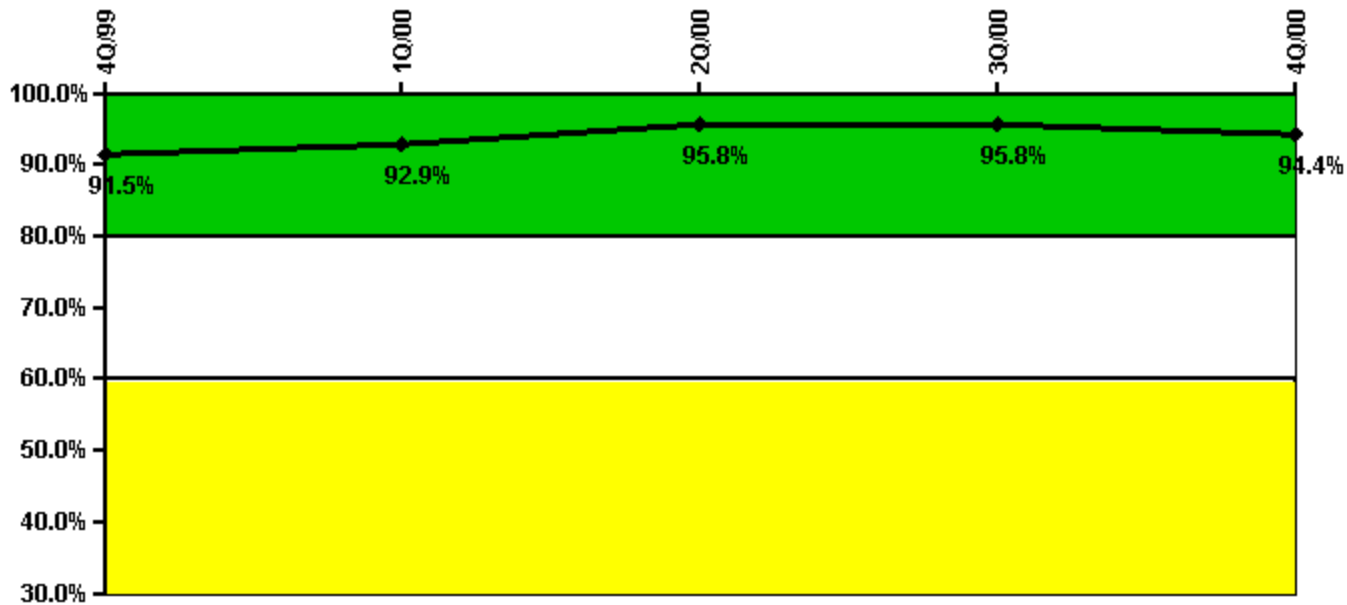
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Successful opportunities	78.0	44.0	7.0	72.0	0
Total opportunities	81.0	45.0	7.0	72.0	0
Indicator value	95.6%	96.2%	96.3%	97.3%	97.3%

Licensee Comments: none

ERO Drill Participation



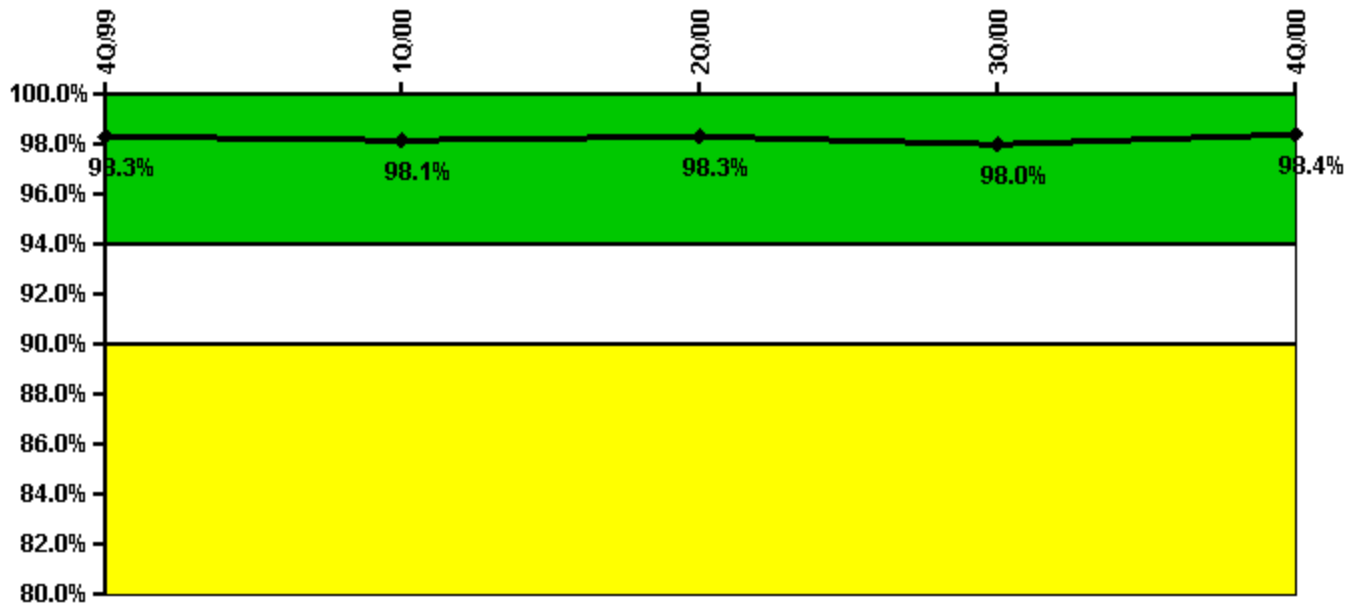
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Participating Key personnel	151.0	157.0	158.0	161.0	136.0
Total Key personnel	165.0	169.0	165.0	168.0	144.0
Indicator value	91.5%	92.9%	95.8%	95.8%	94.4%

Licensee Comments: none

Alert & Notification System



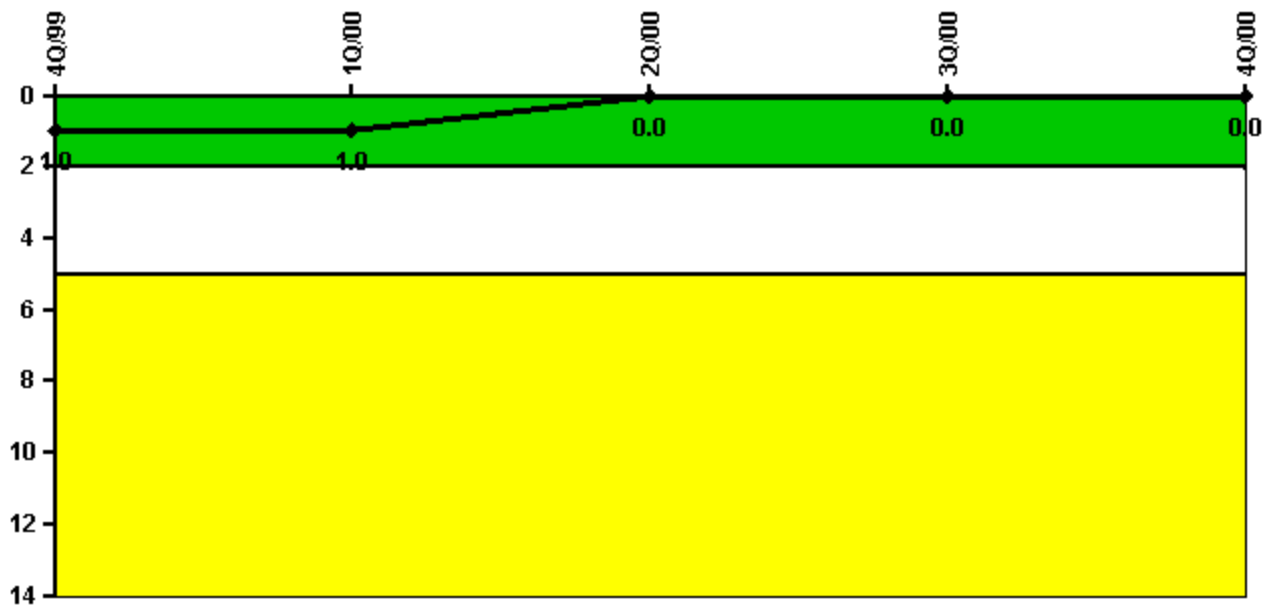
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Successful siren-tests	492	498	441	437	444
Total sirens-tests	504	506	448	448	448
Indicator value	98.3%	98.1%	98.3%	98.0%	98.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness



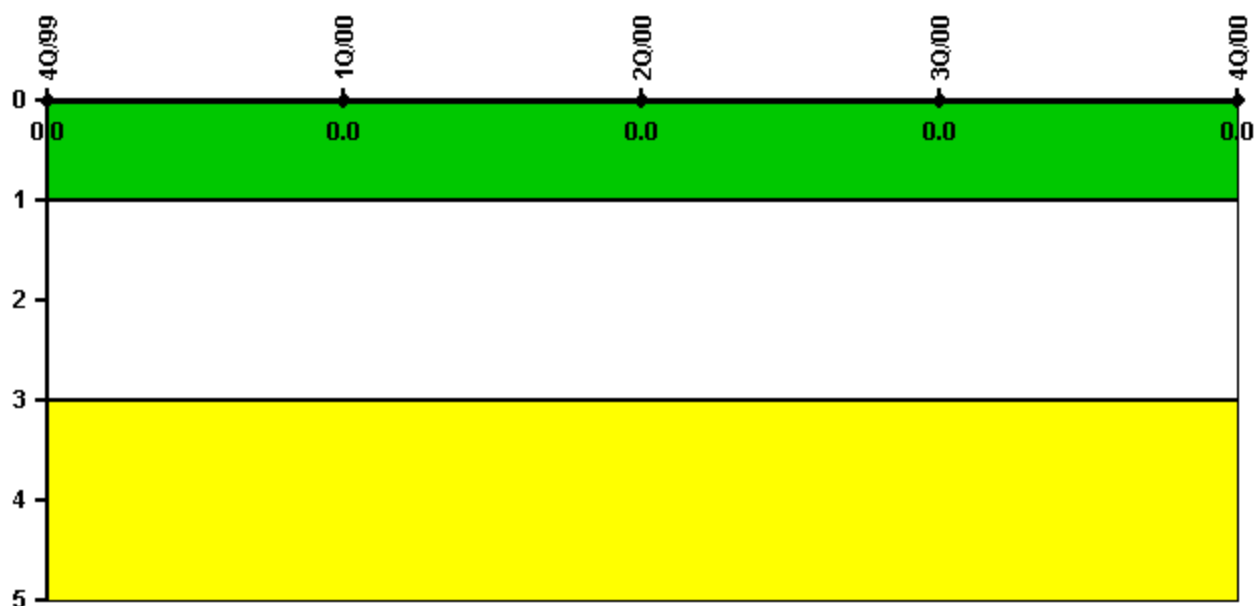
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



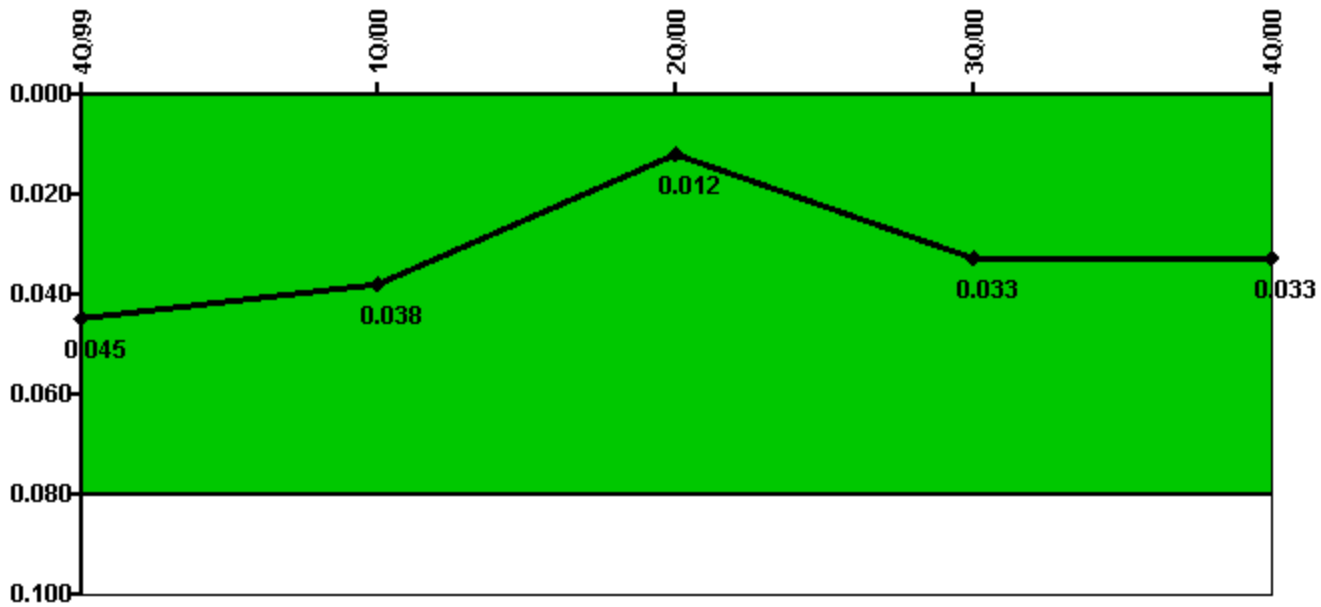
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

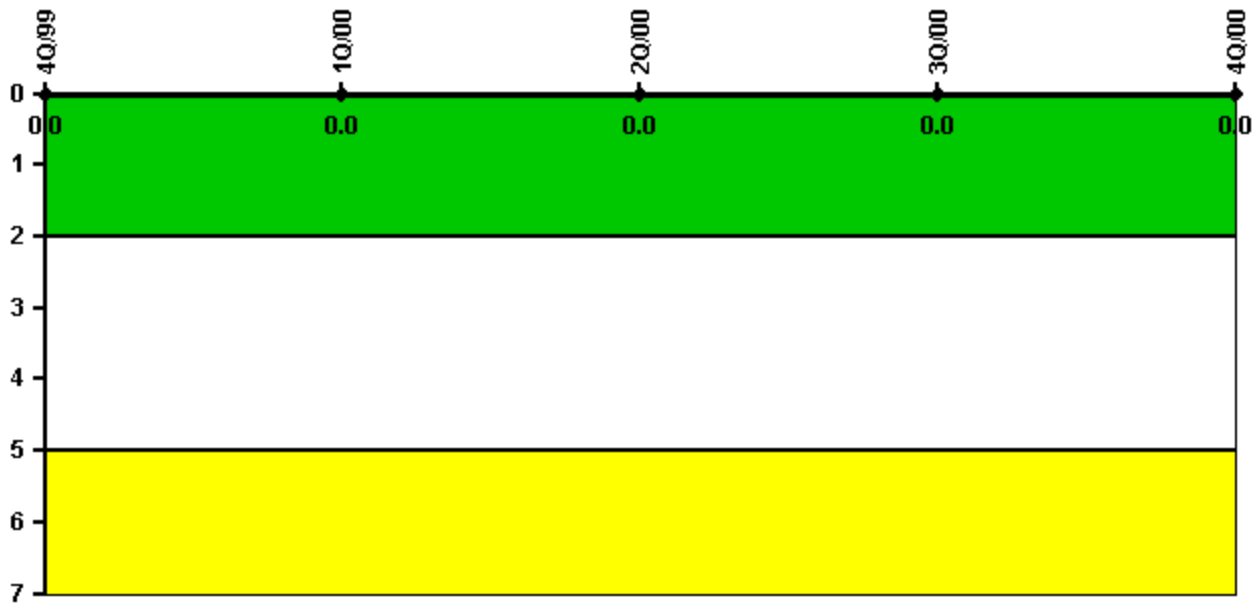
Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
IDS compensatory hours	8.20	26.05	59.40	513.85	16.10
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	0.045	0.038	0.012	0.033	0.033

Licensee Comments:

4Q/00: The Protected Area perimeter threat assessment function at Surry is primarily provided by armed response personnel in towers. This performance data reflects one CCTV camera which covers the part of the perimeter not covered by a tower.

Personnel Screening Program



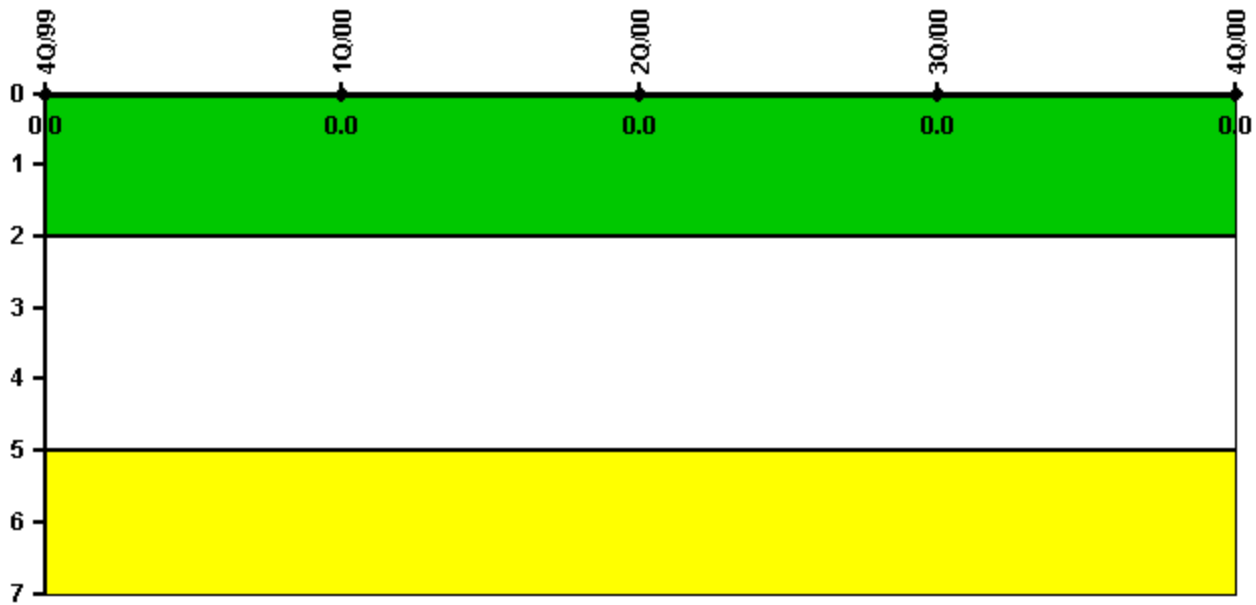
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

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

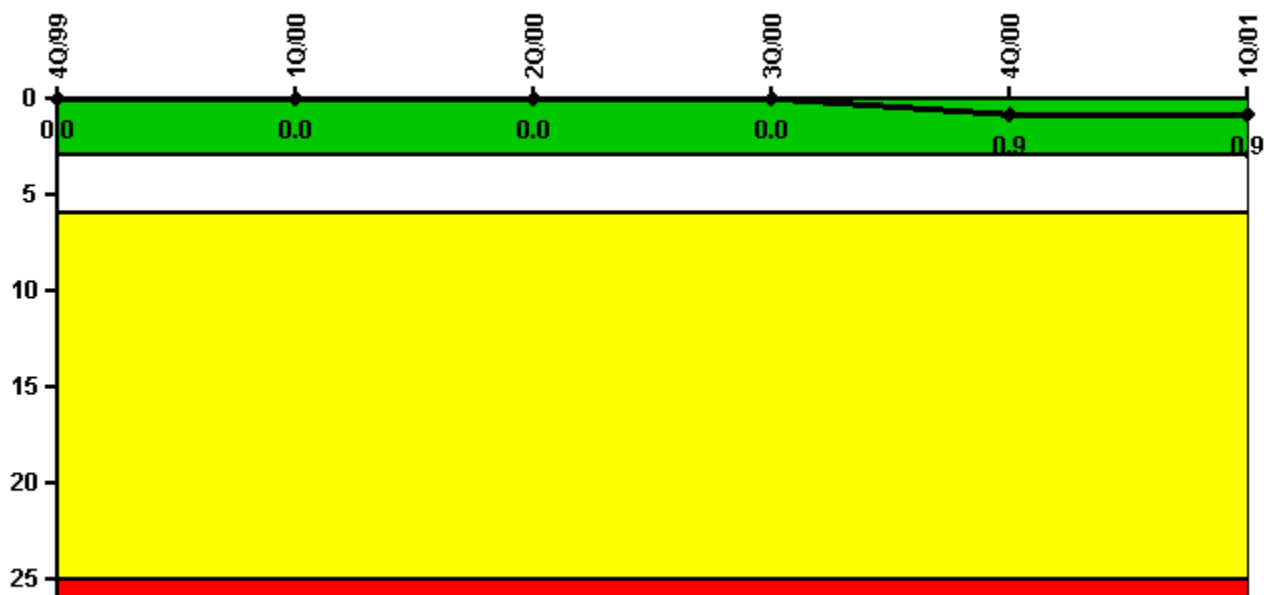
Last Modified: March 28, 2002

Surry 1

1Q/2001 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned scrams	0	0	0	0	1.0	0
Critical hours	2209.0	2184.0	1646.0	2208.0	2189.6	2160.0
Indicator value	0	0	0	0	0.9	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



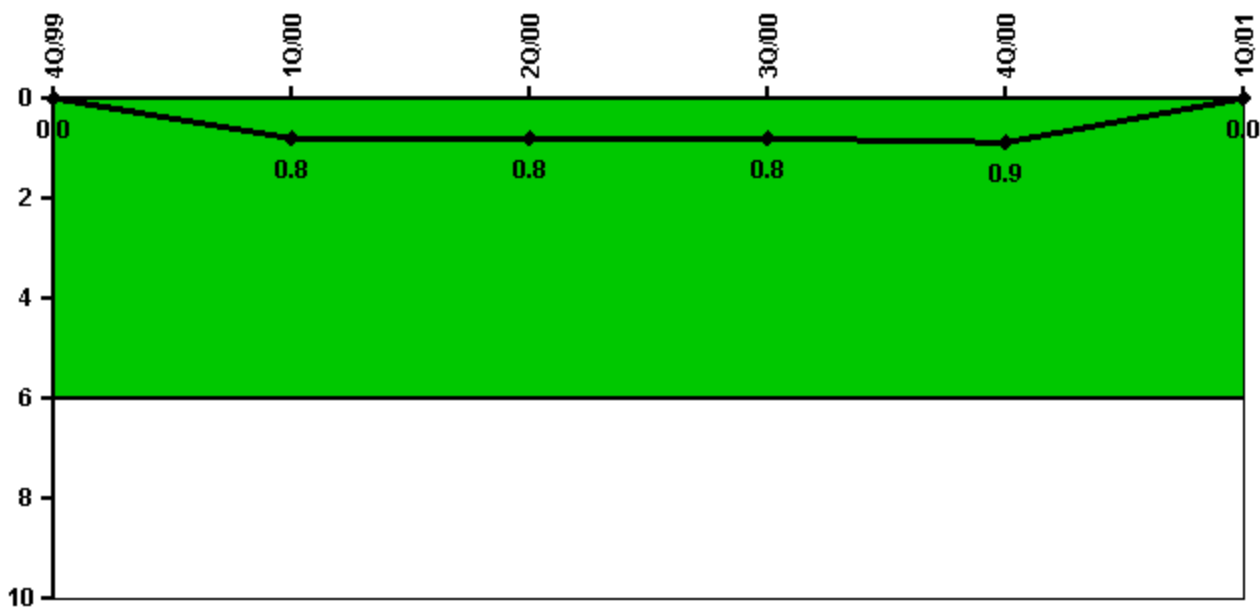
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



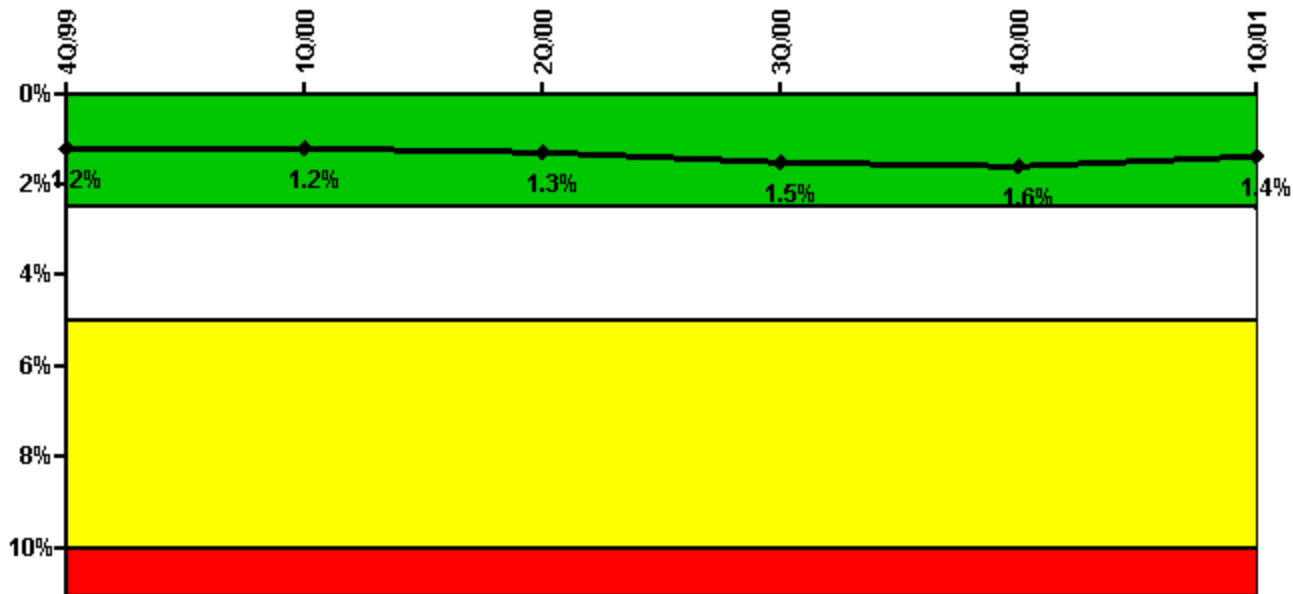
Thresholds: White > 6.0

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	0	0	0
Critical hours	2209.0	2184.0	1646.0	2208.0	2189.6	2160.0
Indicator value	0	0.8	0.8	0.8	0.9	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

Notes

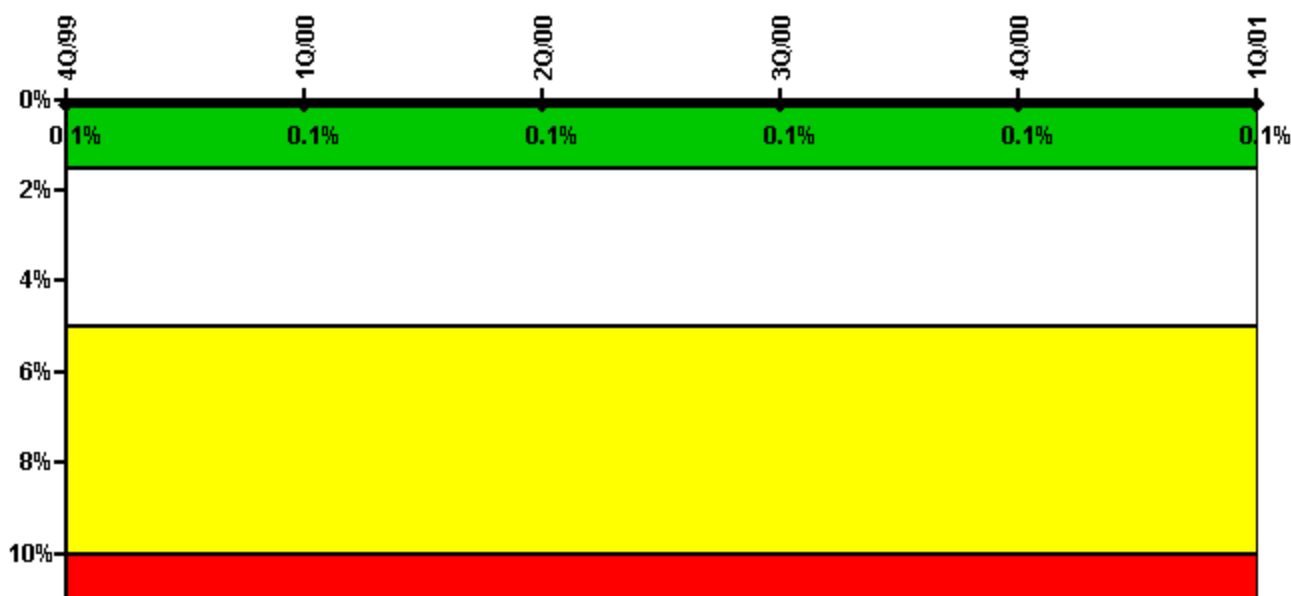
Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	17.30	13.40	26.60	17.39	11.50	14.05
Unplanned unavailable hours	0	0	0	83.68	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2076.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	41.05	26.08	16.86	33.78	19.74	26.29
Unplanned unavailable hours	0	0	50.20	0	10.30	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	1.2%	1.2%	1.3%	1.5%	1.6%	1.4%

Licensee Comments:

1Q/01: An audit of input data required correcting unavailable hours for Train 2 from 1Q2000 through 4Q2000 for unaccounted test time. Also, hours train required for service for April 2000 were inaccurate due to non-compensation for Daylight Savings Time (1 hour). All data were corrected with no change in color.

2Q/00: Due to the clarifying notes for testing and on-line planned overhaul maintenance in Revision 0 of NEI 99-02, reportable "planned unavailable hours" for this PI could be reduced. Historical data from 1Q1997 through 1Q2000 was corrected. The PI color did not change.

Safety System Unavailability, High Pressure Injection System (HPSI)



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

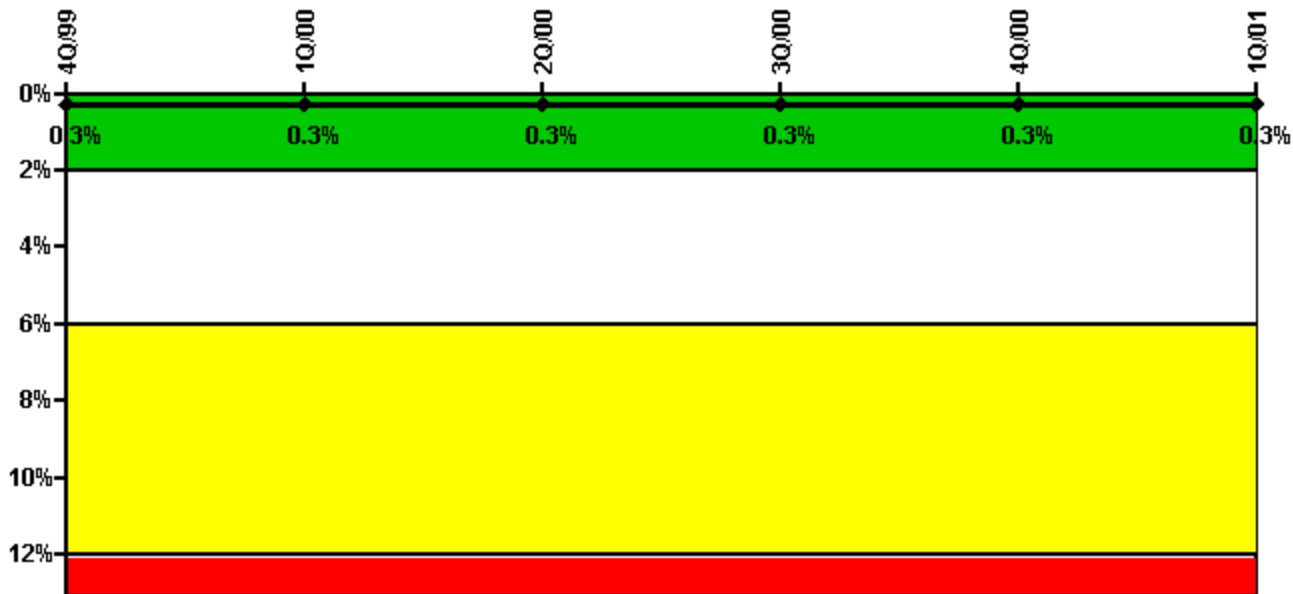
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0	5.20	0	0	0	3.60
Unplanned unavailable hours	0	0	1.20	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	1699.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	0	10.00	9.70	0	1.00	0.70
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments:

1Q/01: Hours train required for service for April 2000 were inaccurate due to non-compensation for Daylight Savings Time (1 hour). All data were corrected with no change in color.

Safety System Unavailability, Heat Removal System (AFW)



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

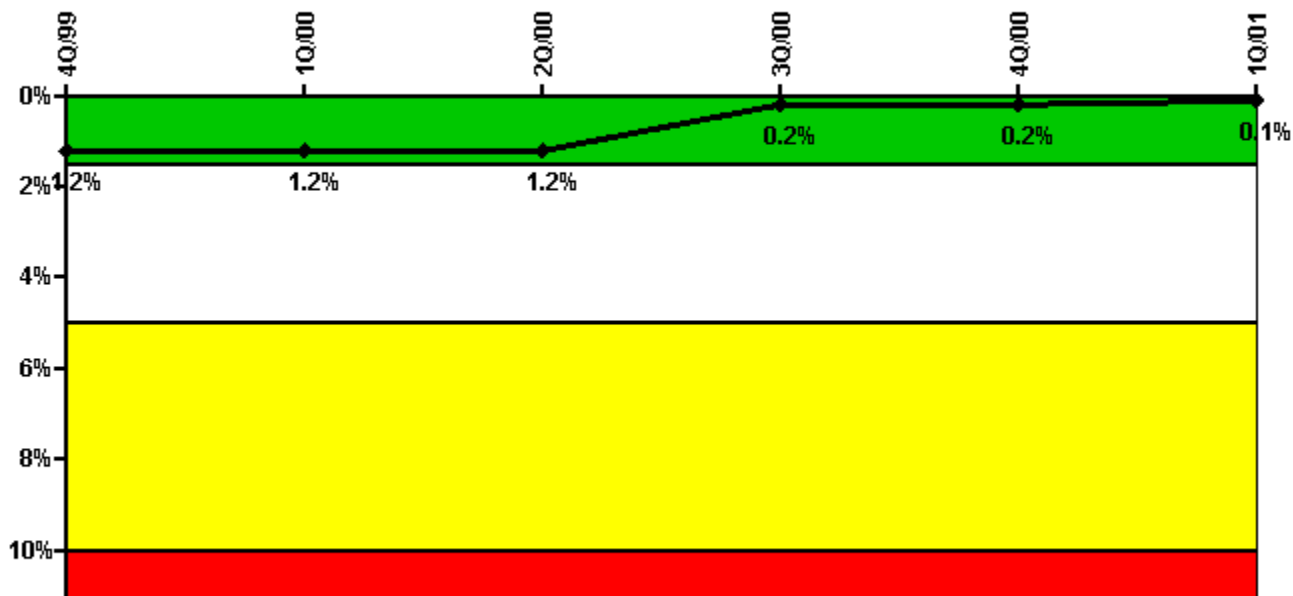
Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	3.30	2.90	0.60	3.19	15.57	12.40
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	0	1.50	1.20	0.92	2.23	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	2184.00	1699.00	2208.00	2209.00	2160.00
Train 3						
Planned unavailable hours	2.00	19.90	11.30	2.48	18.20	11.30
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2197.00	2209.00	2160.00
Indicator value	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%

Licensee Comments:

1Q/01: Hours train required for service for April 2000 were inaccurate due to non-compensation for Daylight Savings Time (1 hour). All data were corrected with no change in color.

Safety System Unavailability, Residual Heat Removal System



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

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0	10.00	0.40	0.58	0	1.10
Unplanned unavailable hours	0	0	1.50	0	0	2.10
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	0	0.10	0.40	13.15	0	0.10
Unplanned unavailable hours	0	0	0	0	0	2.10
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	1015.00	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00
Train 3						
Planned unavailable hours	0	0	10.40	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	2184.00	2076.00	2208.00	2209.00	2160.00
Train 4						
Planned unavailable hours	0	0	10.50	0	0	0
Unplanned unavailable hours	0	0	6.80	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	2076.00	2208.00	2209.00	2160.00

Indicator value	1.2%	1.2%	1.2%	0.2%	0.2%	0.1%

Licensee Comments:

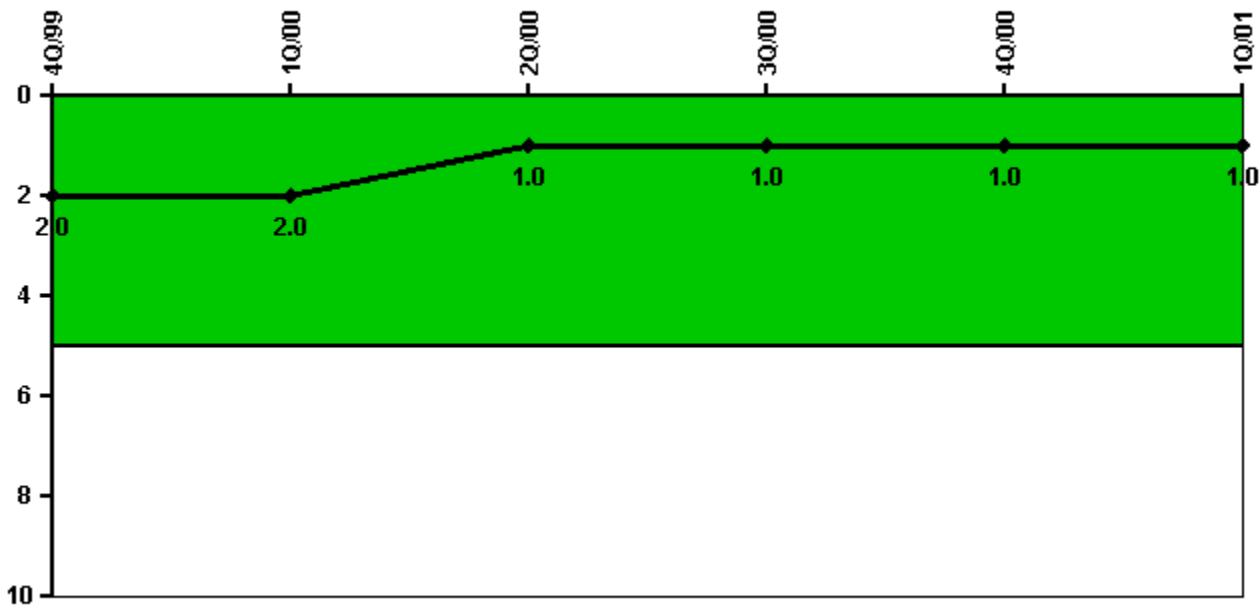
1Q/01: An audit of unavailable hours required correcting data for Train 1 in 3Q2000. Also, hours train required for service for April 2000 were inaccurate due to non-compensation for Daylight Savings Time (1 hour). All data were corrected with no change in color.

3Q/00: Fault exposure hours for Train 2 for February, 1999 have been removed as allowed by NEI 99-02, Rev. 0

Effective Reset Comments:

3Q/00: Previously reset hours were reset under the new process.

Safety System Functional Failures (PWR)



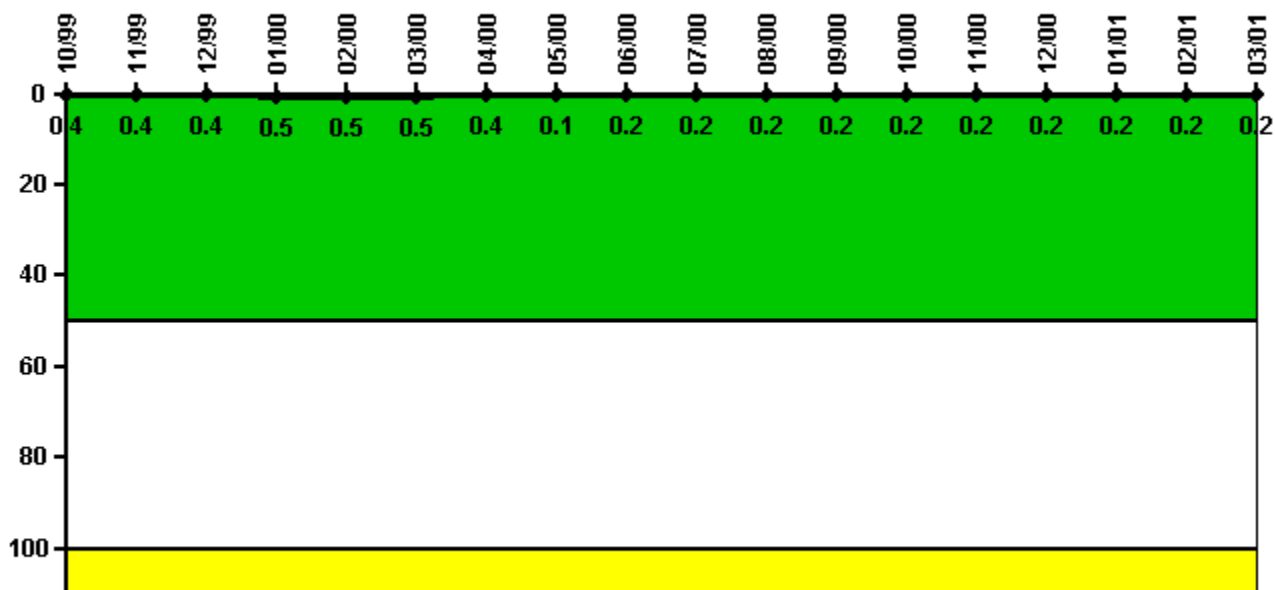
Thresholds: White > 5.0

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	2	1	1	1	1

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

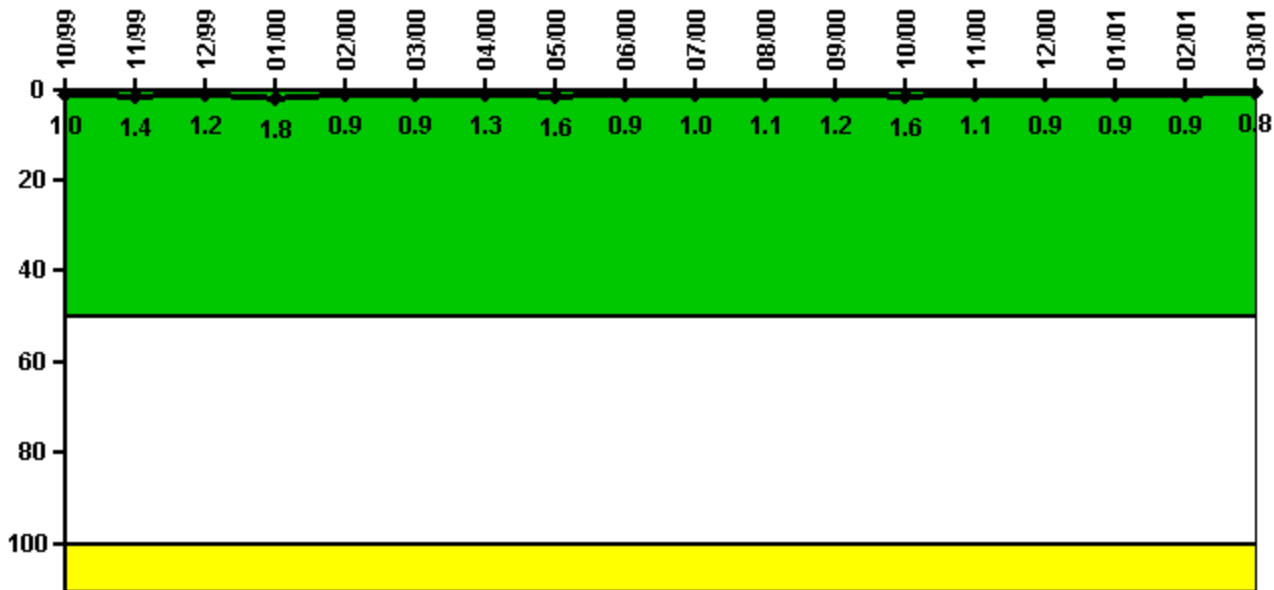
Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.004070	0.004460	0.004370	0.004500	0.004660	0.005130	0.003910	0.001360	0.001720	0.001550	0.001770	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	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.1	0.2	0.2	0.2	0.2

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.002060	0.002060	0.002000	0.002240	0.002240	0.002270
Technical specification limit	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

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

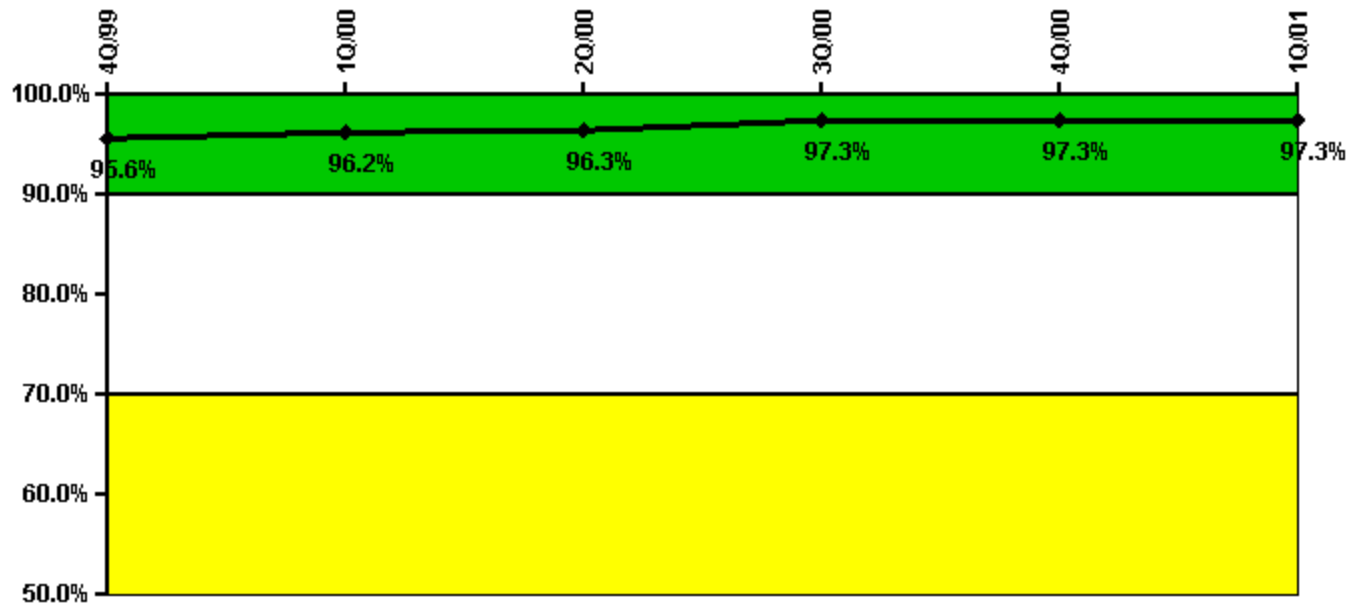
Notes

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	0.100	0.140	0.120	0.180	0.090	0.090	0.130	0.160	0.090	0.100	0.110	0.120
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.4	1.2	1.8	0.9	0.9	1.3	1.6	0.9	1.0	1.1	1.2

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	0.160	0.110	0.090	0.090	0.090	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.6	1.1	0.9	0.9	0.9	0.8

Licensee Comments: none

Drill/Exercise Performance



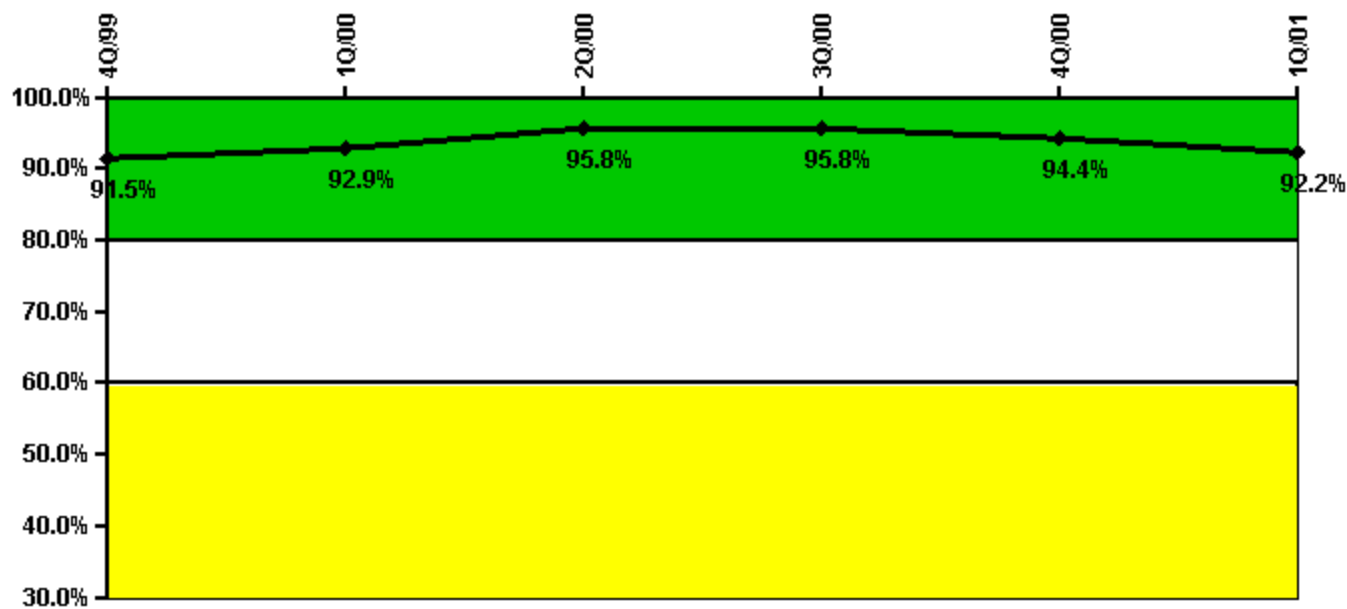
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful opportunities	78.0	44.0	7.0	72.0	0	0
Total opportunities	81.0	45.0	7.0	72.0	0	0
Indicator value	95.6%	96.2%	96.3%	97.3%	97.3%	97.3%

Licensee Comments: none

ERO Drill Participation



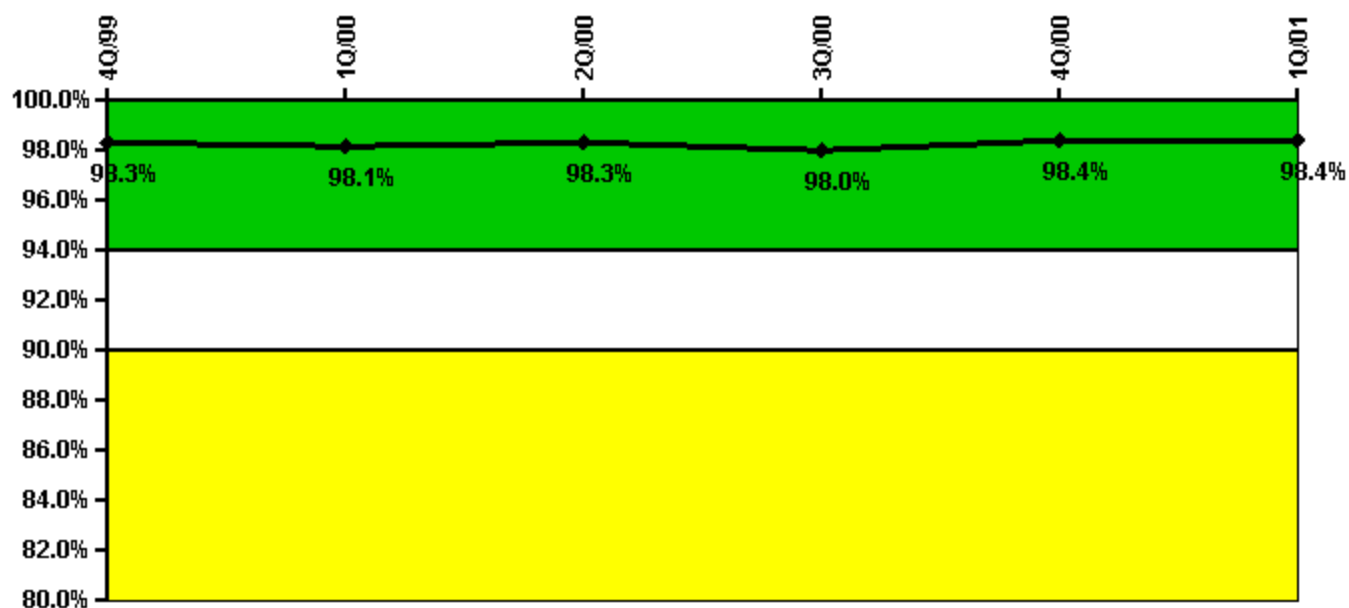
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Participating Key personnel	151.0	157.0	158.0	161.0	136.0	119.0
Total Key personnel	165.0	169.0	165.0	168.0	144.0	129.0
Indicator value	91.5%	92.9%	95.8%	95.8%	94.4%	92.2%

Licensee Comments: none

Alert & Notification System



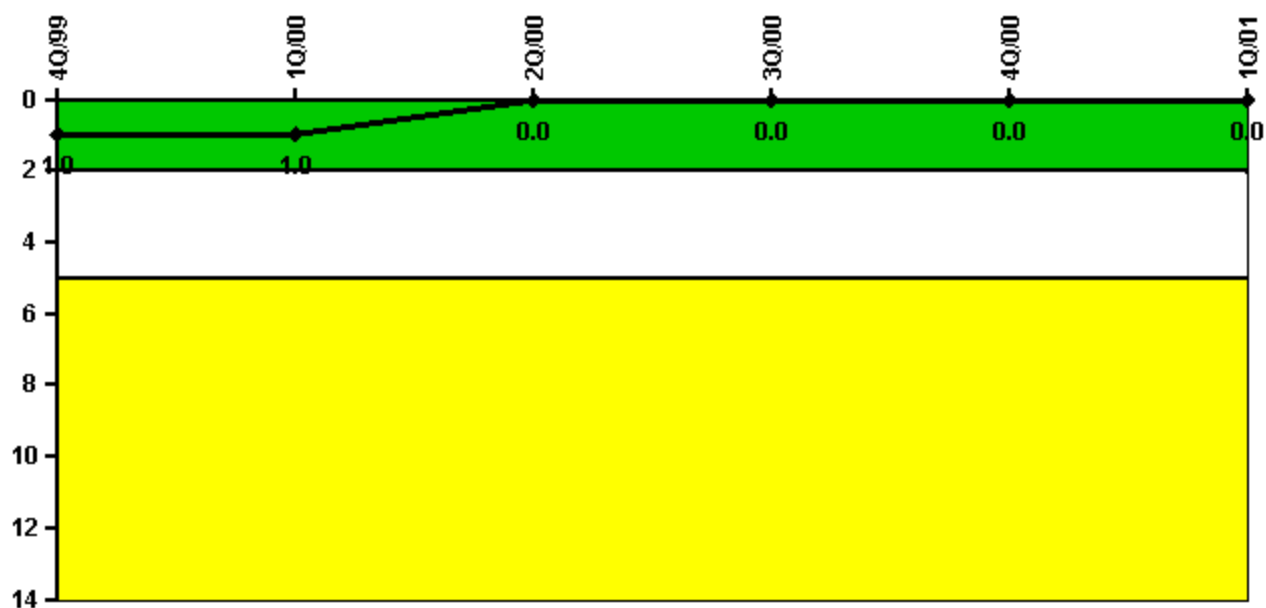
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful siren-tests	492	498	441	437	444	442
Total sirens-tests	504	506	448	448	448	448
Indicator value	98.3%	98.1%	98.3%	98.0%	98.4%	98.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



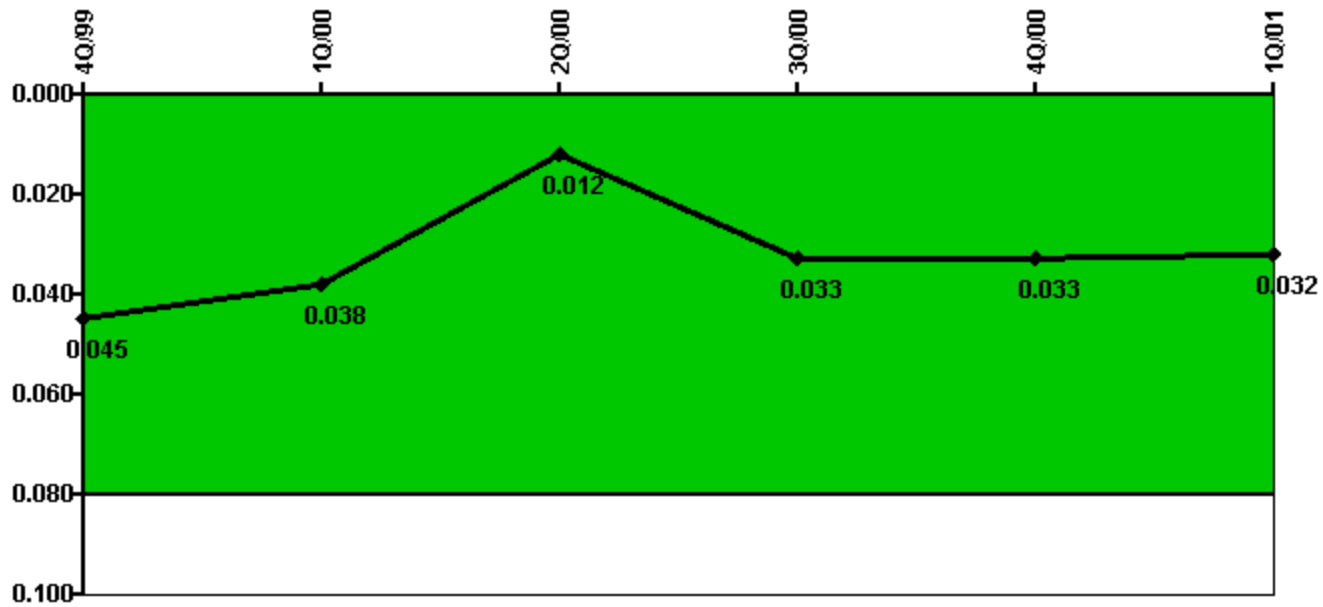
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
IDS compensatory hours	8.20	26.05	59.40	513.85	16.10	0
CCTV compensatory hours	0	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.045	0.038	0.012	0.033	0.033	0.032

Licensee Comments:

1Q/01: The Protected Area perimeter threat assessment function at Surry is primarily provided by armed response personnel in towers. This performance data reflects one CCTV camera which covers the part of the perimeter not covered by a tower.

Personnel Screening Program



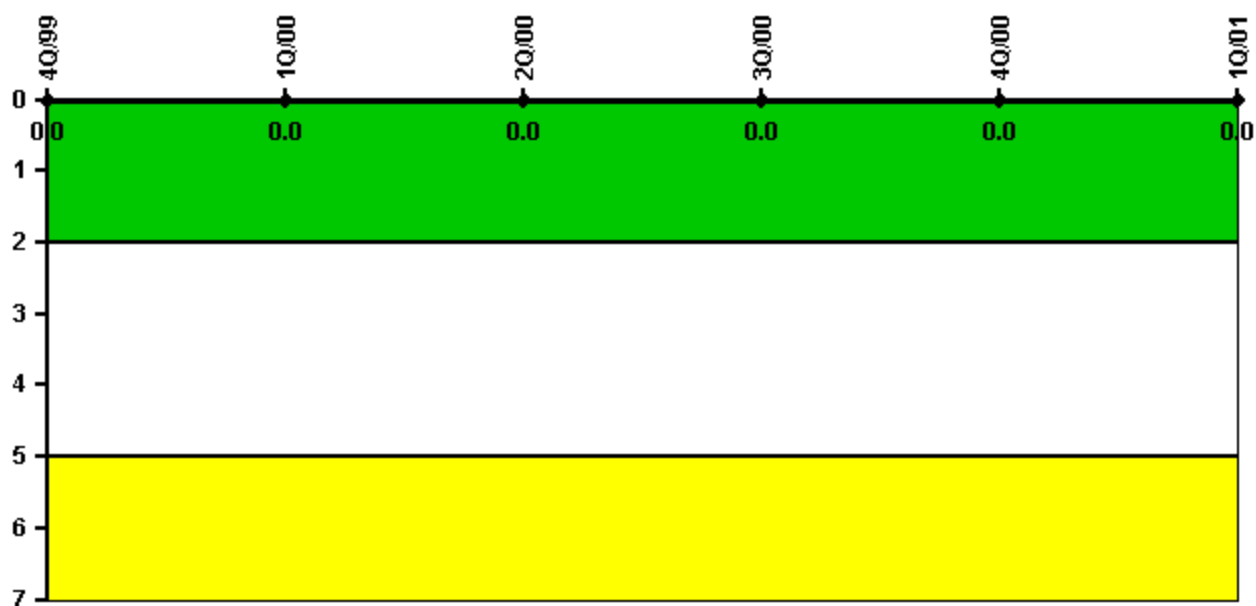
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

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

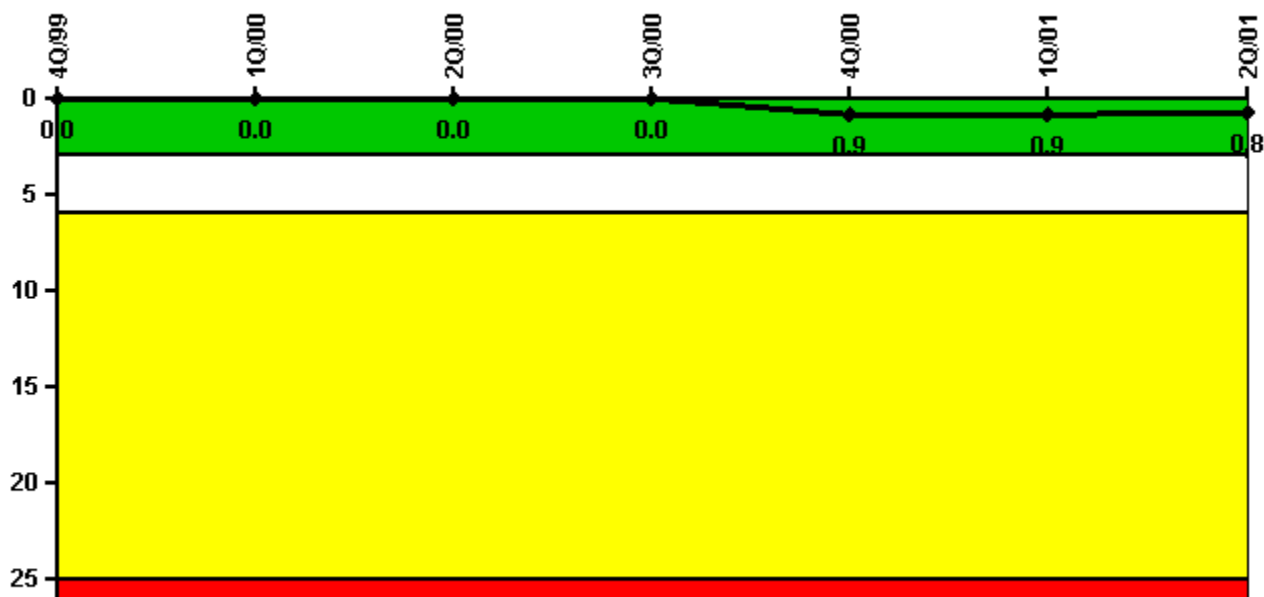
Last Modified: March 28, 2002

Surry 1

2Q/2001 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned scrams	0	0	0	0	1.0	0	0
Critical hours	2209.0	2184.0	1646.0	2208.0	2189.6	2160.0	2145.9
Indicator value	0	0	0	0	0.9	0.9	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



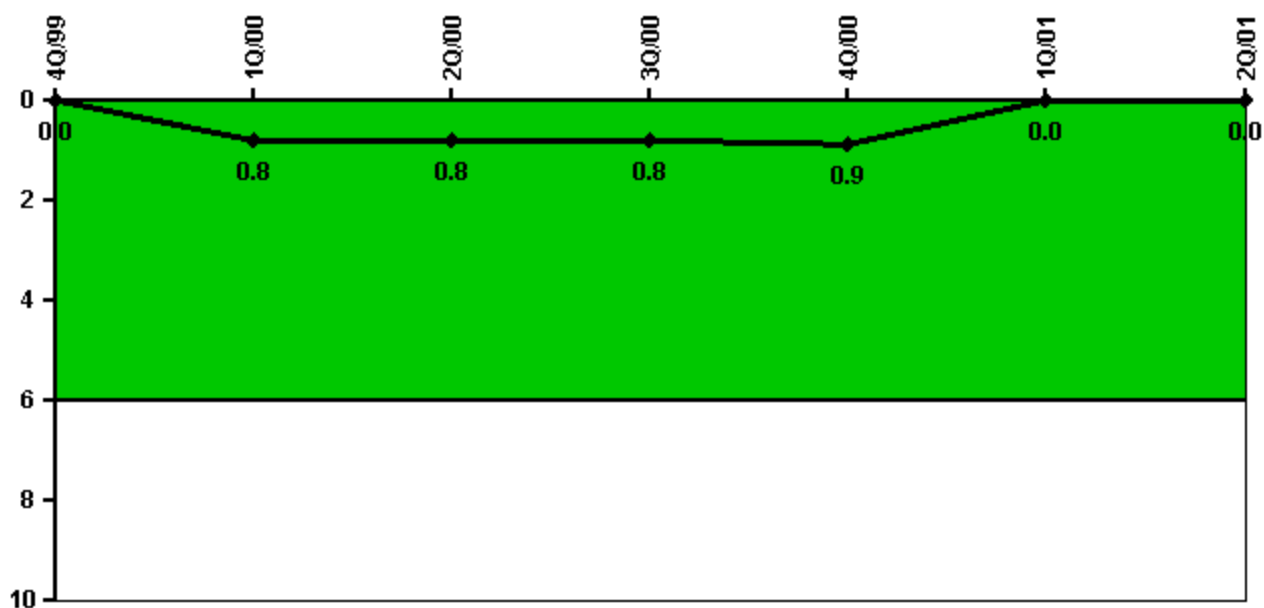
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



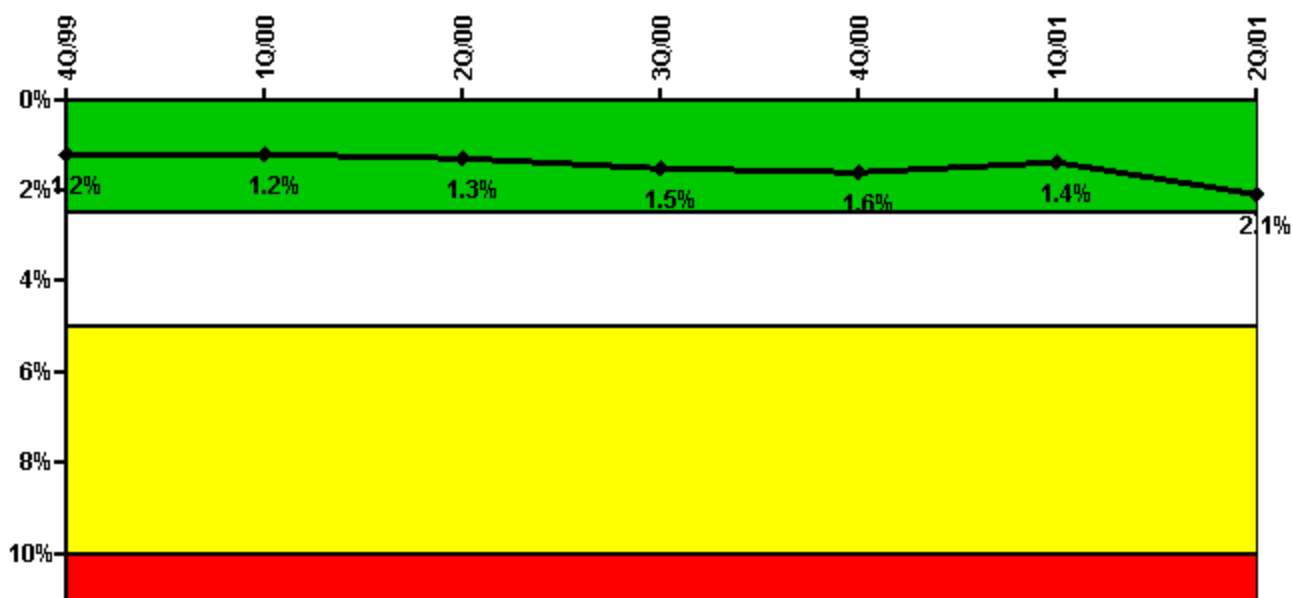
Thresholds: White > 6.0

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	0	0	0	0
Critical hours	2209.0	2184.0	1646.0	2208.0	2189.6	2160.0	2145.9
Indicator value	0	0.8	0.8	0.8	0.9	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



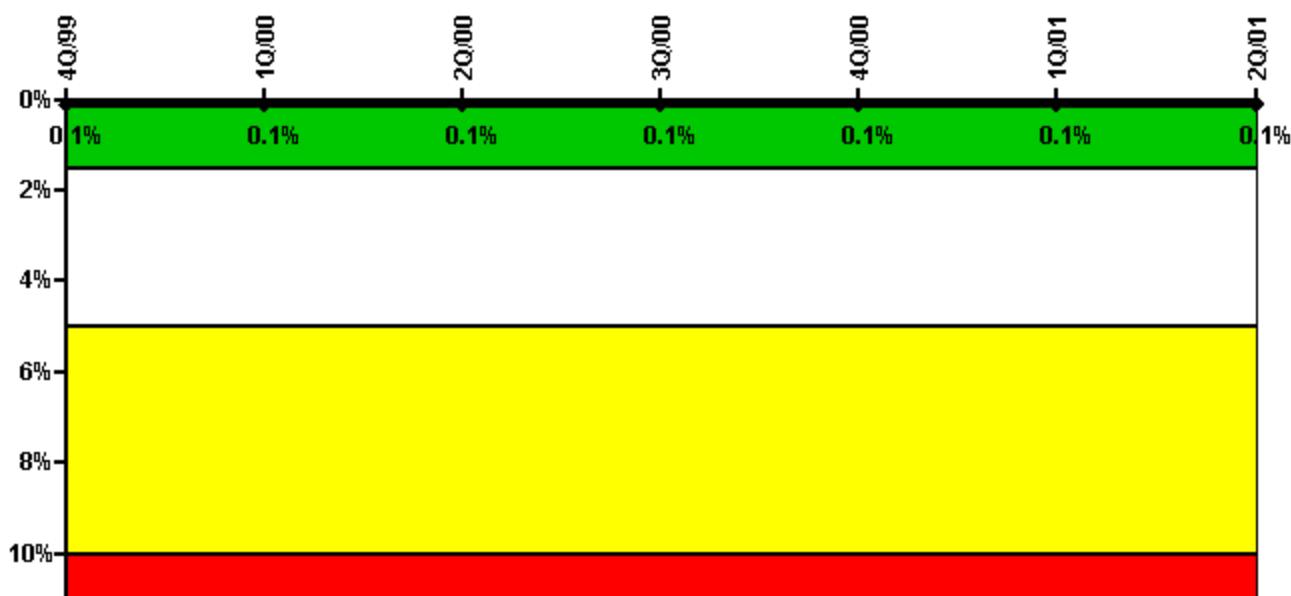
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	17.30	13.40	26.60	17.39	11.50	14.05	5.97
Unplanned unavailable hours	0	0	0	83.68	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	2076.00	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	41.05	26.08	16.86	33.78	19.74	26.29	15.55
Unplanned unavailable hours	0	0	50.20	0	10.30	0	131.35
Fault exposure hours	0	0	0	0	0	0	192.03
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	1.2%	1.2%	1.3%	1.5%	1.6%	1.4%	2.1%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



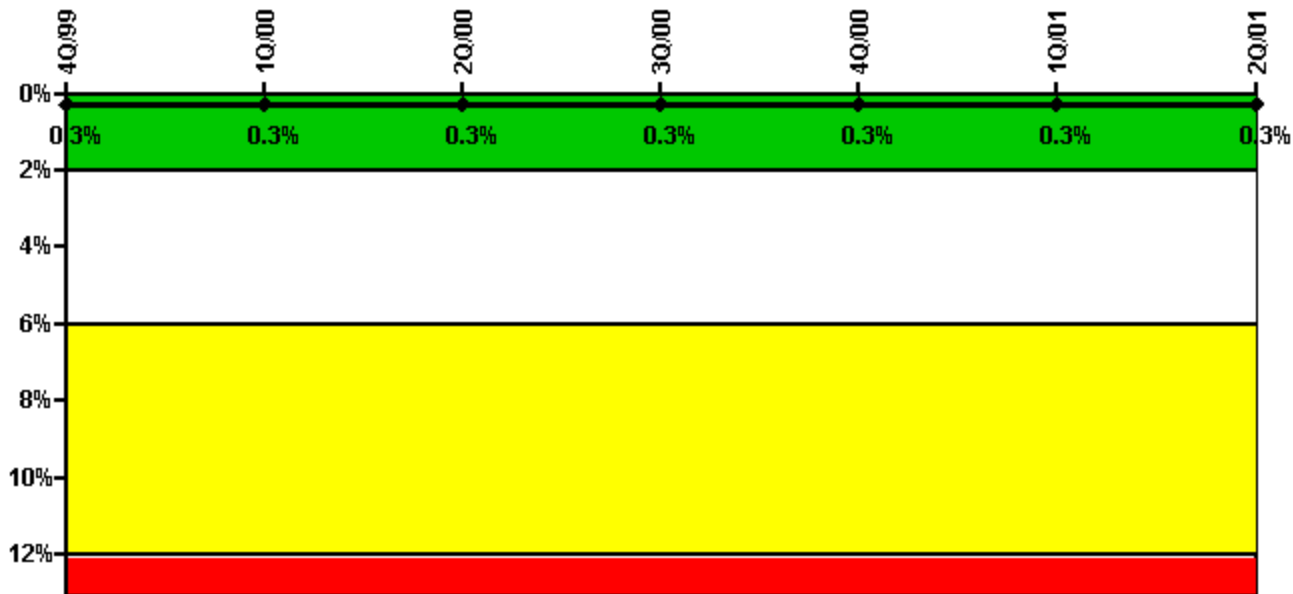
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	0	5.20	0	0	0	3.60	0
Unplanned unavailable hours	0	0	1.20	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	1699.00	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	0	10.00	9.70	0	1.00	0.70	0.50
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



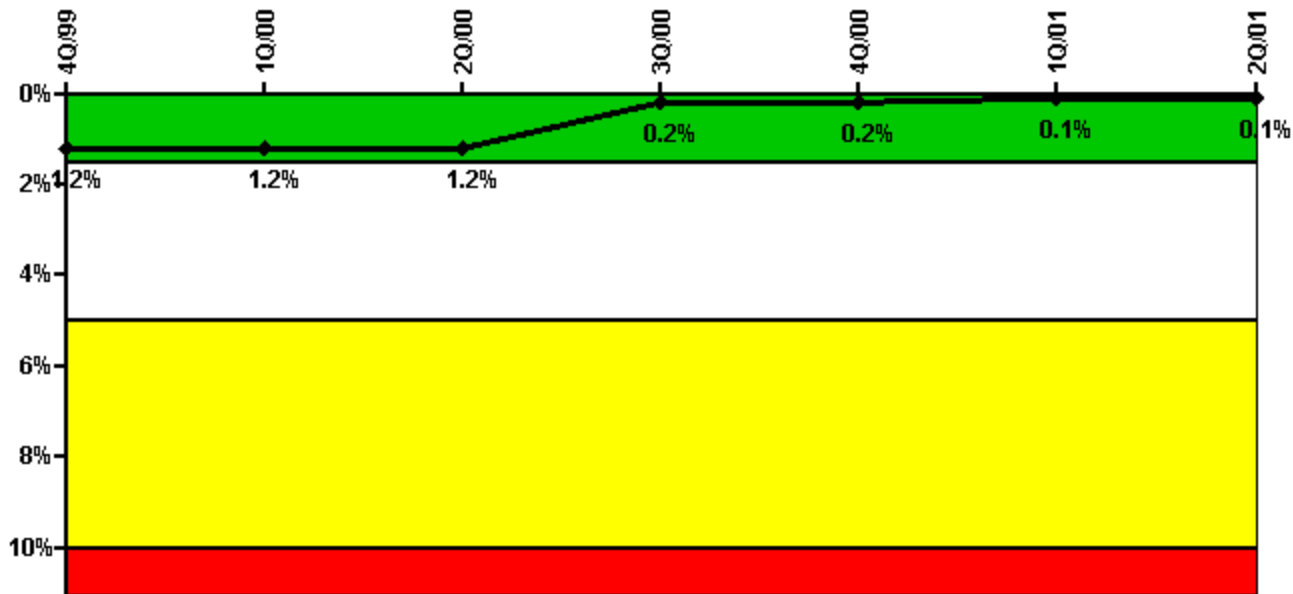
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	3.30	2.90	0.60	3.19	15.57	12.40	1.80
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	0	1.50	1.20	0.92	2.23	0	1.90
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00
Train 3							
Planned unavailable hours	2.00	19.90	11.30	2.48	18.20	11.30	3.50
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2197.00	2209.00	2160.00	2183.00
Indicator value	0.3%	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

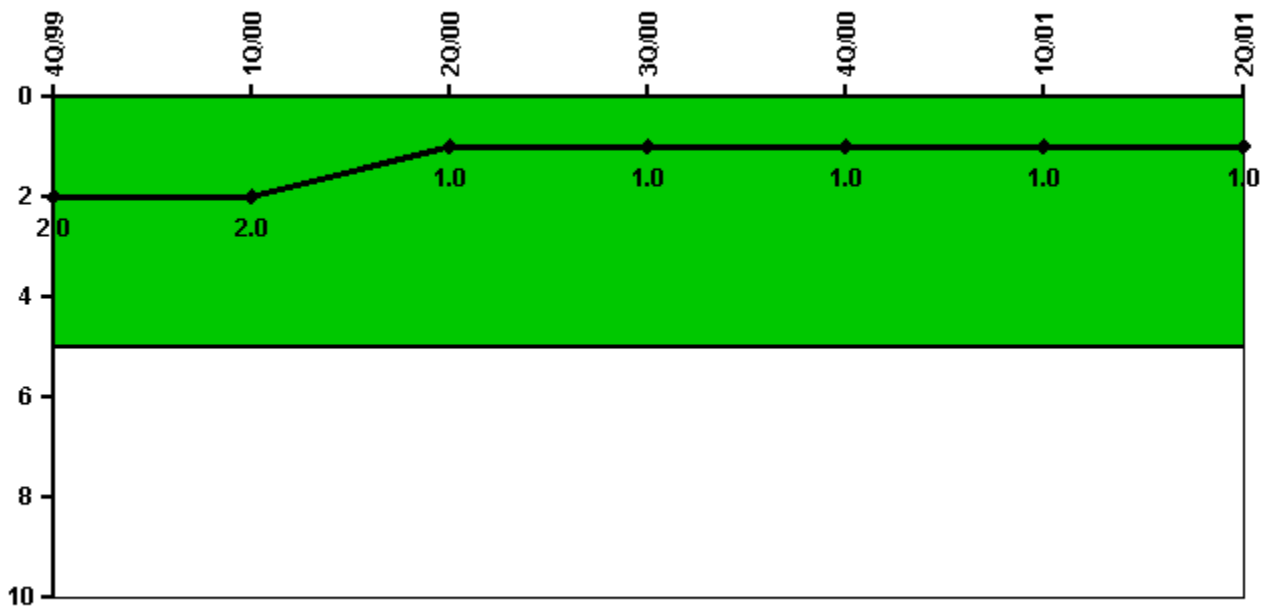
Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	0	10.00	0.40	0.58	0	1.10	0.20
Unplanned unavailable hours	0	0	1.50	0	0	2.10	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	0	0.10	0.40	13.15	0	0.10	0.10
Unplanned unavailable hours	0	0	0	0	0	2.10	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	1015.00	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00
Train 3							
Planned unavailable hours	0	0	10.40	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	2184.00	2076.00	2208.00	2209.00	2160.00	2183.00
Train 4							
Planned unavailable hours	0	0	10.50	0	0	0	0
Unplanned unavailable hours	0	0	6.80	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	2076.00	2208.00	2209.00	2160.00	2183.00
Indicator value	1.2%	1.2%	1.2%	0.2%	0.2%	0.1%	0.1%

Licensee Comments: none

Effective Reset Comments:

3Q/00: Previously reset hours were reset under the new process.

Safety System Functional Failures (PWR)



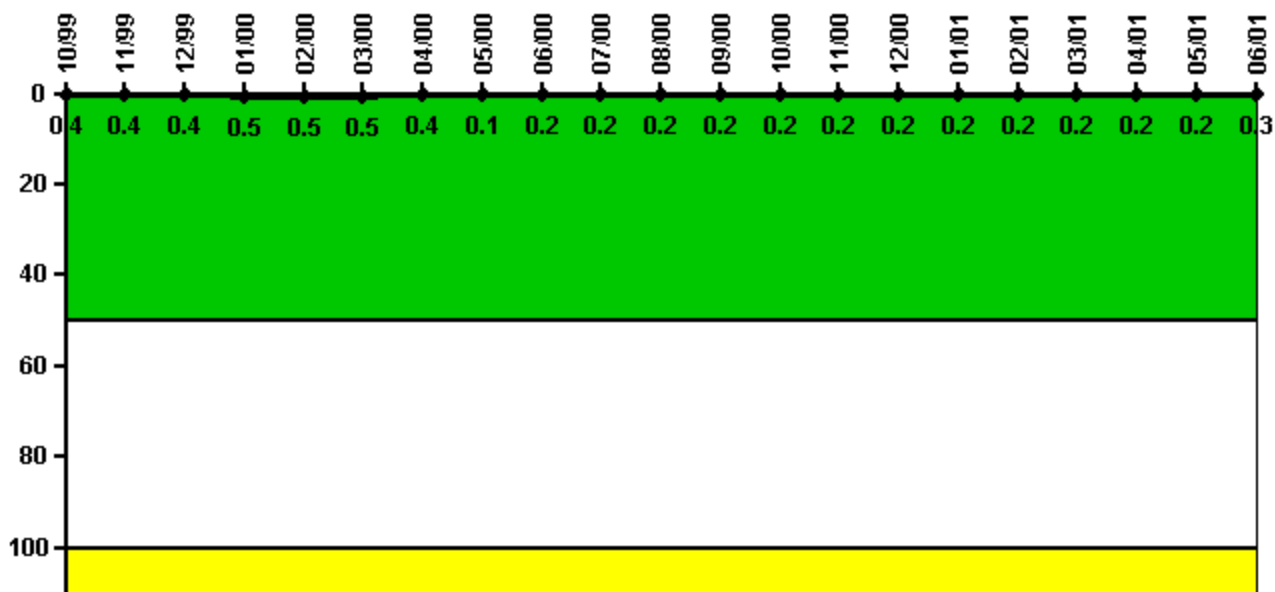
Thresholds: White > 5.0

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	2	1	1	1	1	1

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

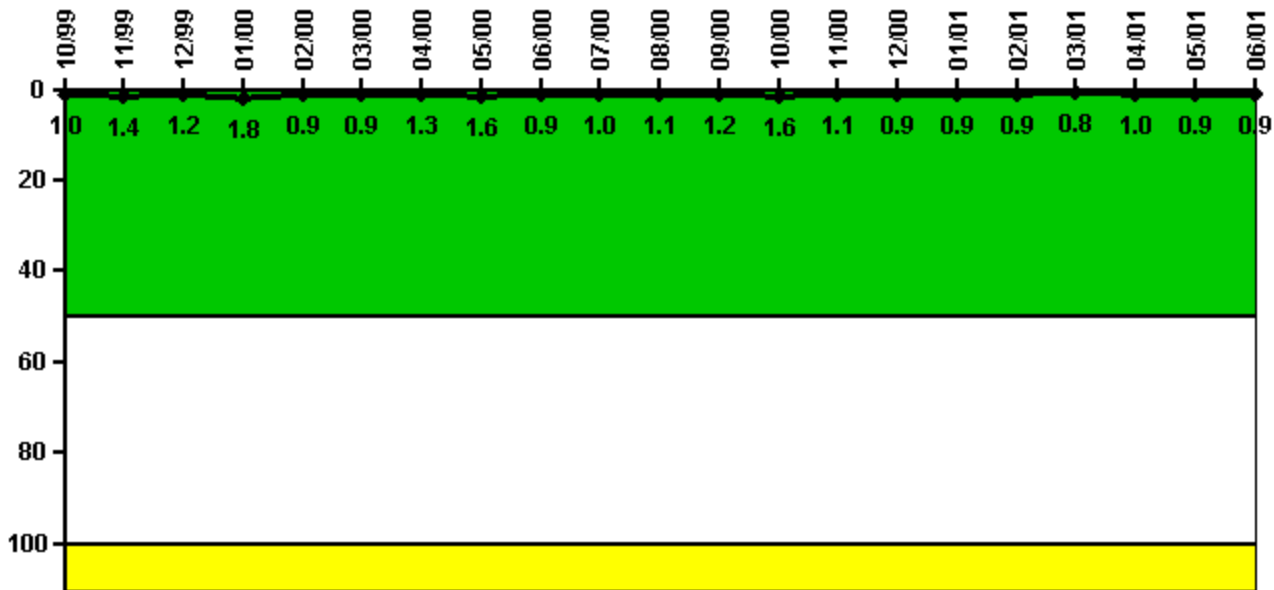
Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.004070	0.004460	0.004370	0.004500	0.004660	0.005130	0.003910	0.001360	0.001720	0.001550	0.001770	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	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.1	0.2	0.2	0.2	0.2

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.002060	0.002060	0.002000	0.002240	0.002240	0.002270	0.002450	0.002450	0.002500
Technical specification limit	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	0.3

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

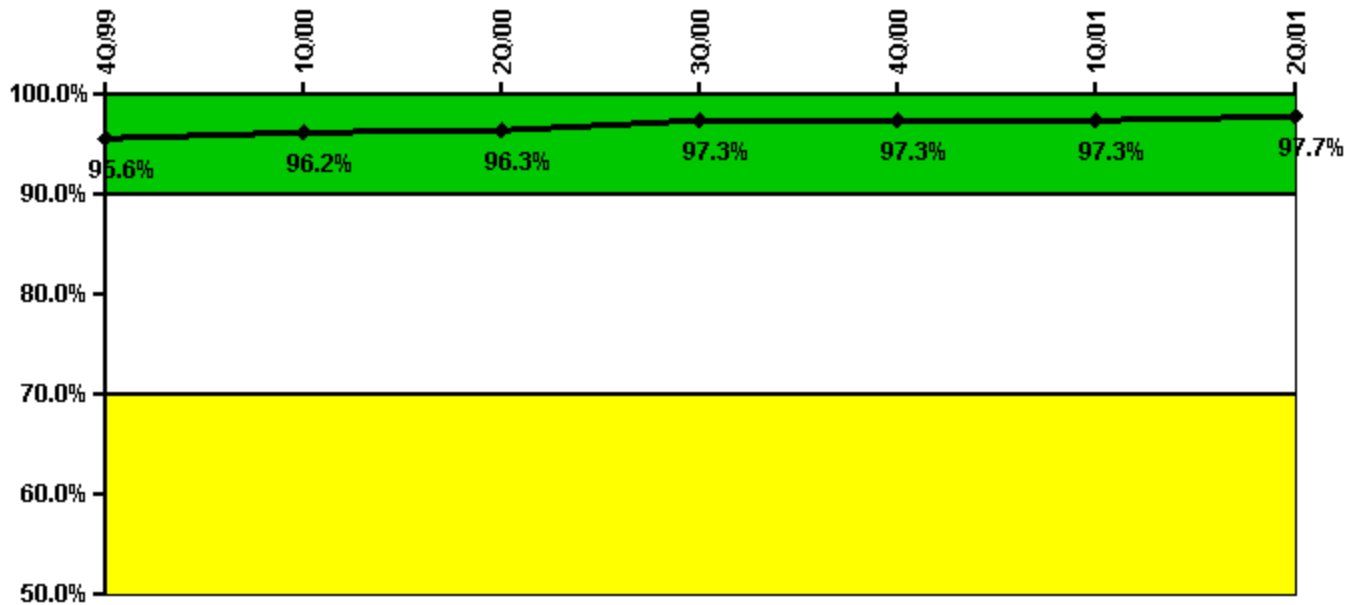
Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.100	0.140	0.120	0.180	0.090	0.090	0.130	0.160	0.090	0.100	0.110	0.120
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.4	1.2	1.8	0.9	0.9	1.3	1.6	0.9	1.0	1.1	1.2

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	0.160	0.110	0.090	0.090	0.090	0.080	0.100	0.090	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.6	1.1	0.9	0.9	0.9	0.8	1.0	0.9	0.9

Licensee Comments: none

Drill/Exercise Performance



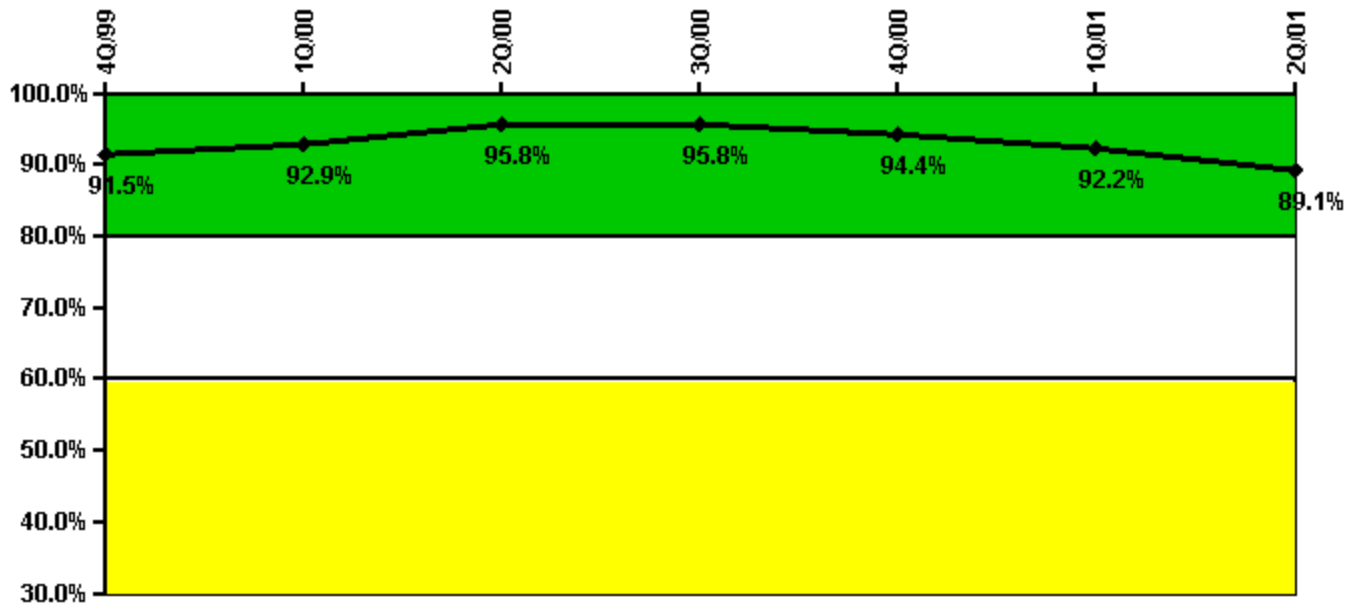
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Successful opportunities	78.0	44.0	7.0	72.0	0	0	49.0
Total opportunities	81.0	45.0	7.0	72.0	0	0	51.0
Indicator value	95.6%	96.2%	96.3%	97.3%	97.3%	97.3%	97.7%

Licensee Comments: none

ERO Drill Participation



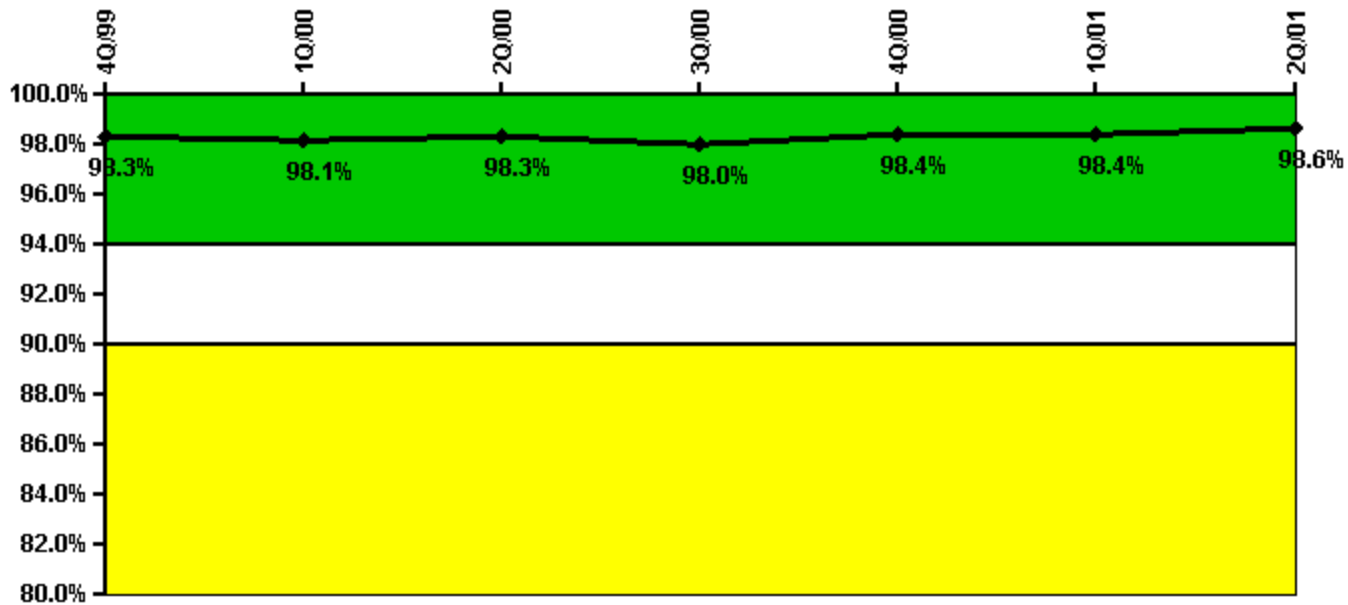
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Participating Key personnel	151.0	157.0	158.0	161.0	136.0	119.0	123.0
Total Key personnel	165.0	169.0	165.0	168.0	144.0	129.0	138.0
Indicator value	91.5%	92.9%	95.8%	95.8%	94.4%	92.2%	89.1%

Licensee Comments: none

Alert & Notification System



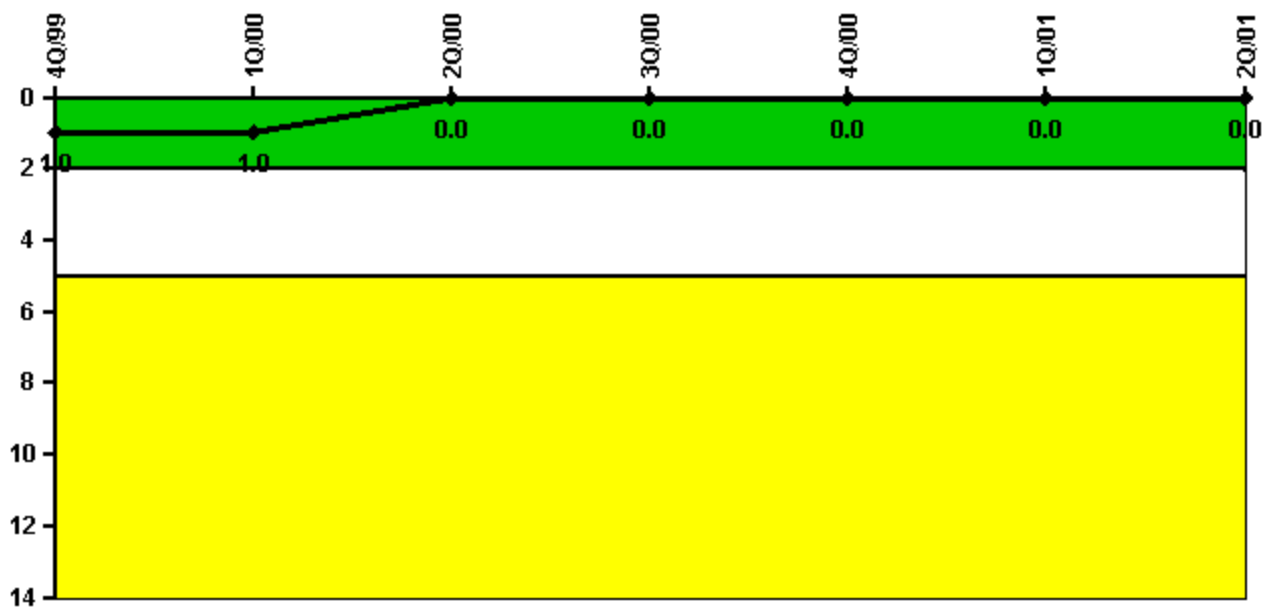
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Successful siren-tests	492	498	441	437	444	442	507
Total sirens-tests	504	506	448	448	448	448	512
Indicator value	98.3%	98.1%	98.3%	98.0%	98.4%	98.4%	98.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



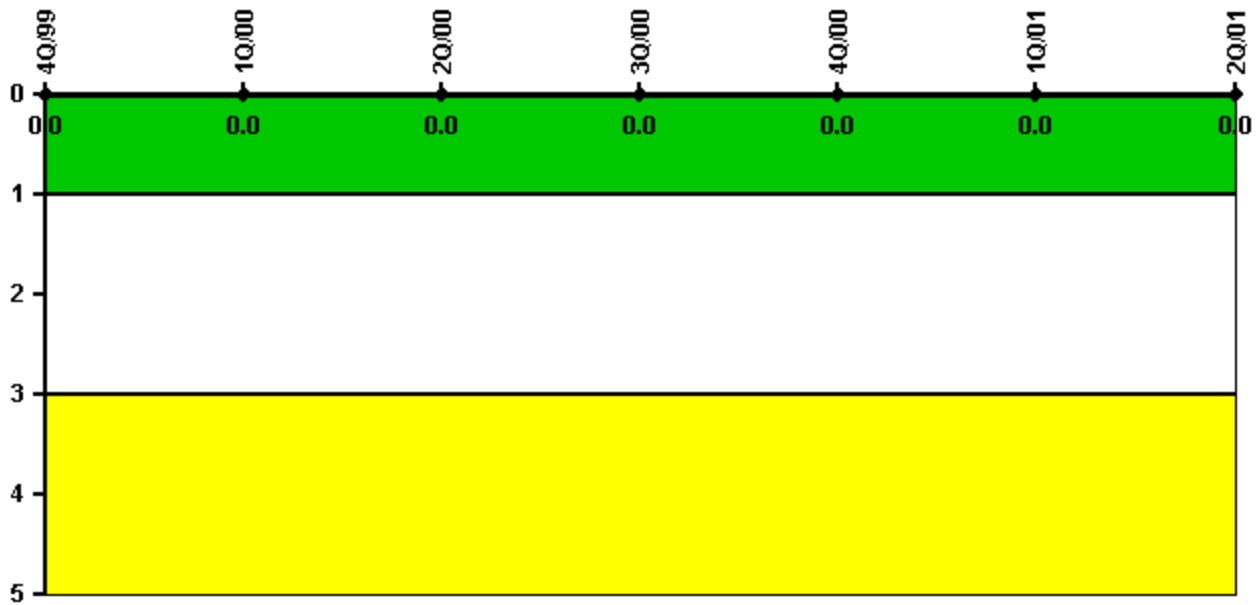
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	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



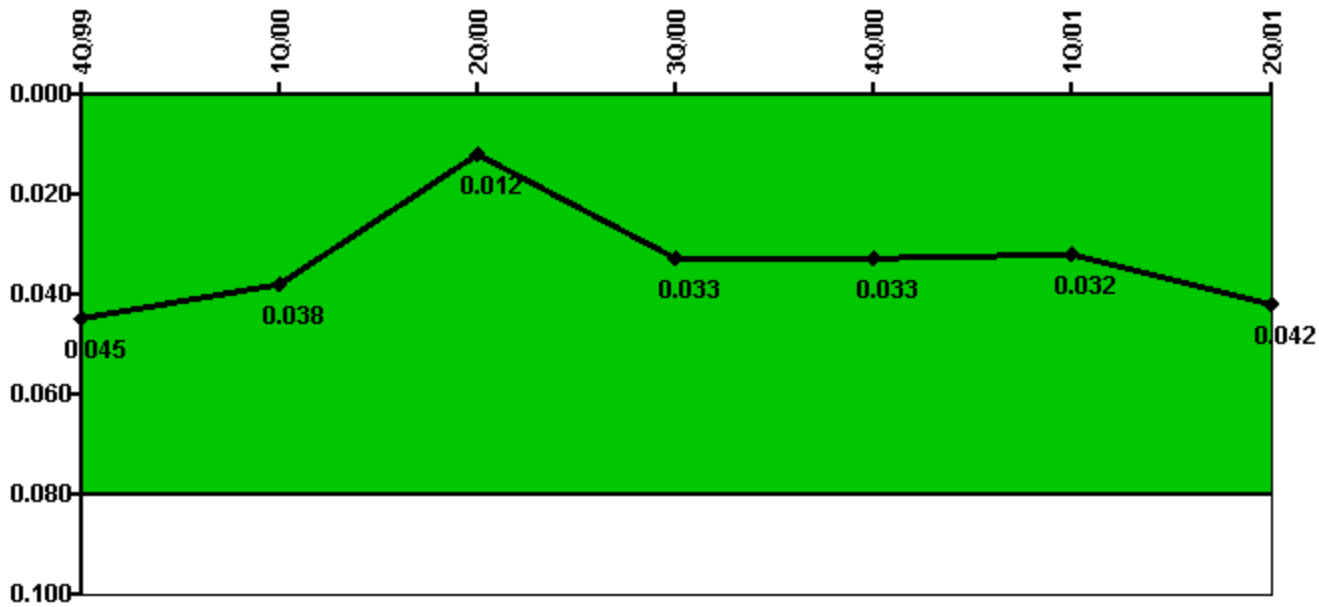
Thresholds: White > 1.0 Yellow > 3.0

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

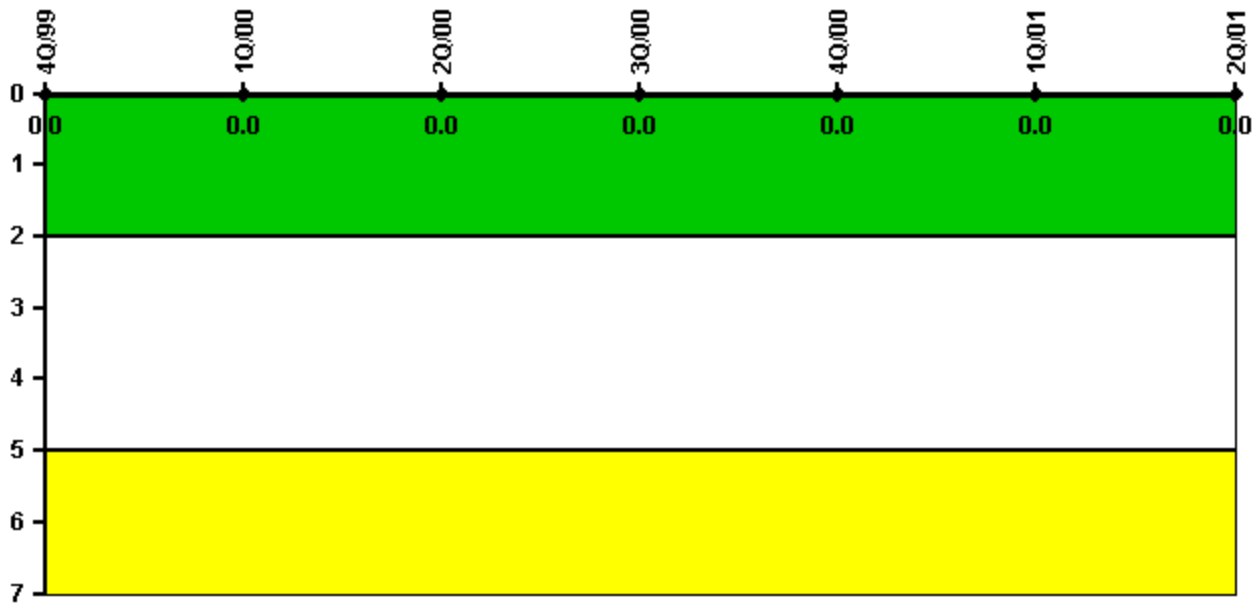
Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
IDS compensatory hours	8.20	26.05	59.40	513.85	16.10	0	246.48
CCTV compensatory hours	0	0	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.045	0.038	0.012	0.033	0.033	0.032	0.042

Licensee Comments:

2Q/01: The Protected Area perimeter threat assessment function at Surry is primarily provided by armed response personnel in towers. This performance data reflects one CCTV camera which covers the part of the perimeter not covered by a tower.

Personnel Screening Program



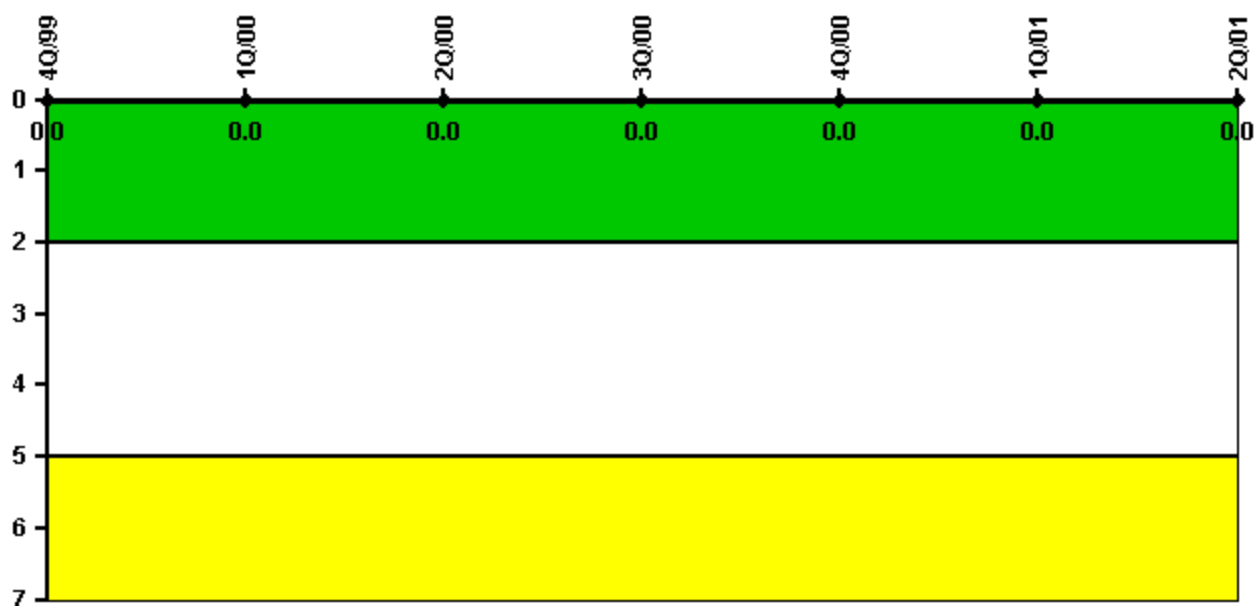
Thresholds: White > 2.0 Yellow > 5.0

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](#)

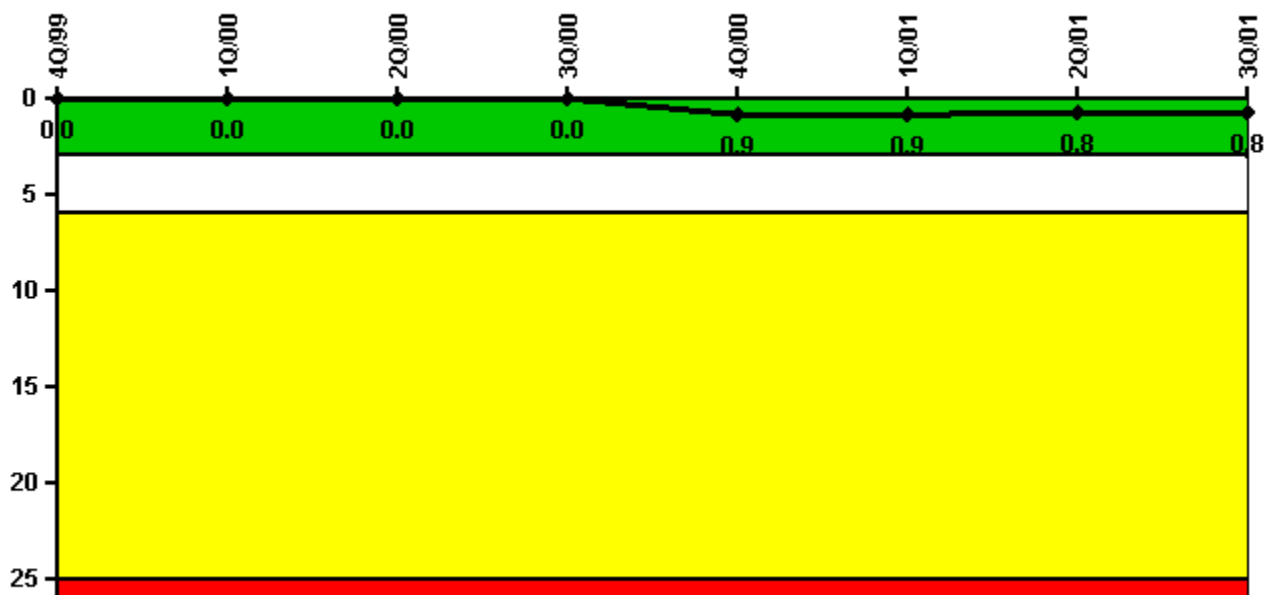
Last Modified: March 27, 2002

Surry 1

3Q/2001 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2209.0	2184.0	1646.0	2208.0	2189.6	2160.0	2145.9	2208.0
Indicator value	0	0	0	0	0.9	0.9	0.8	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



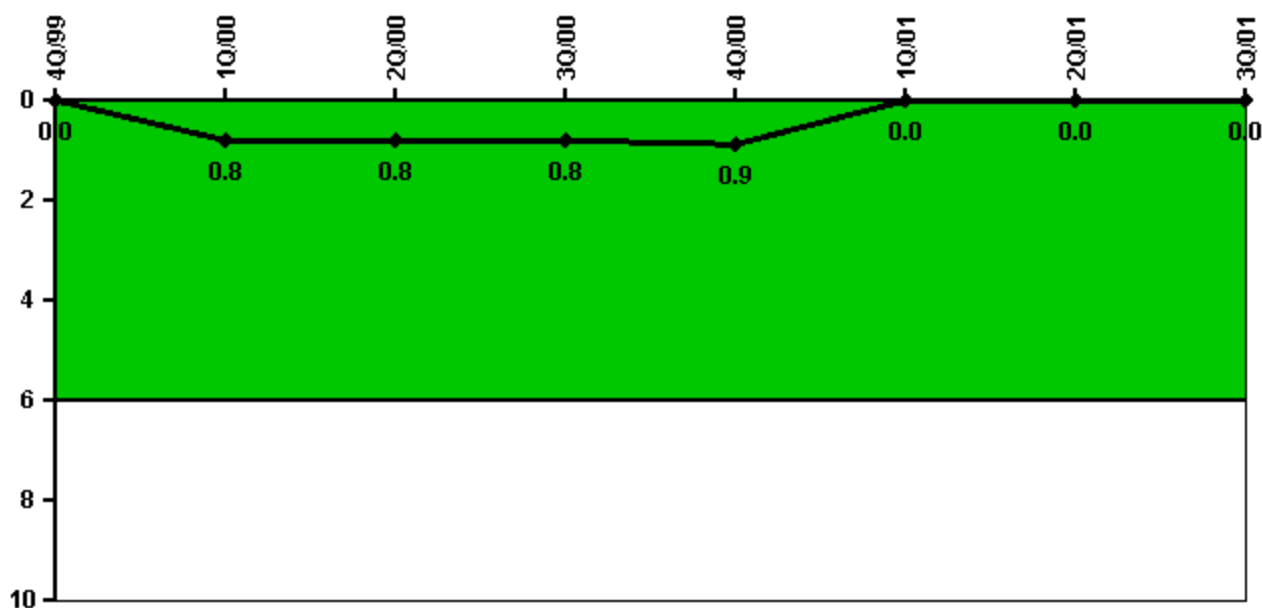
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



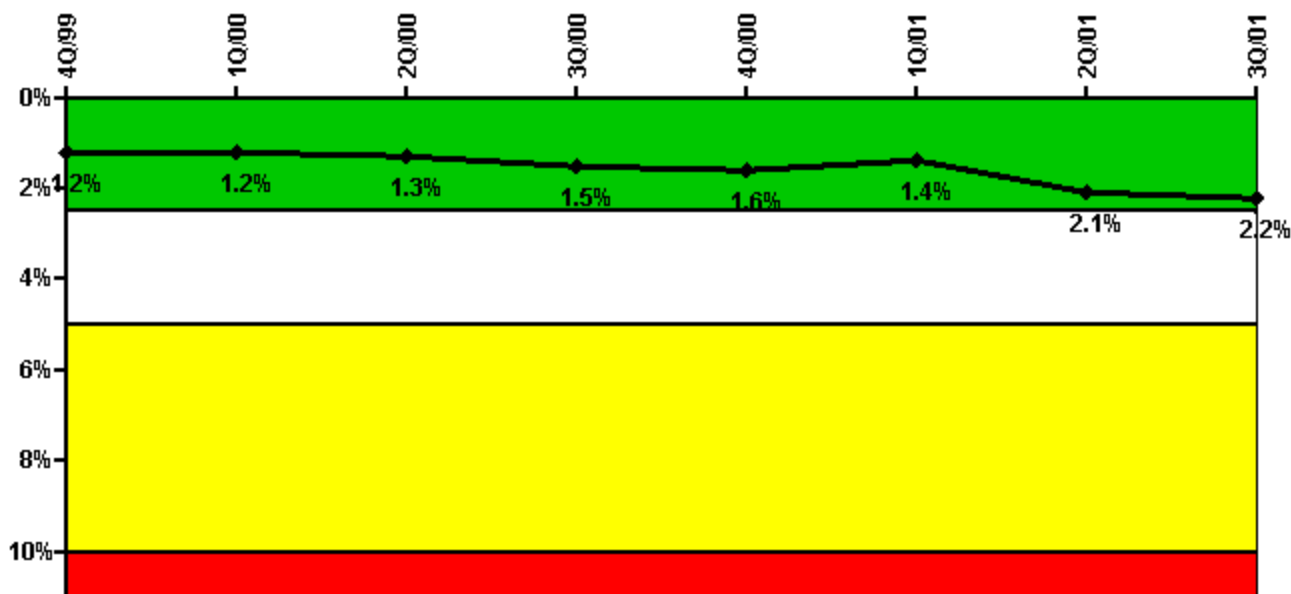
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2209.0	2184.0	1646.0	2208.0	2189.6	2160.0	2145.9	2208.0
Indicator value	0	0.8	0.8	0.8	0.9	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

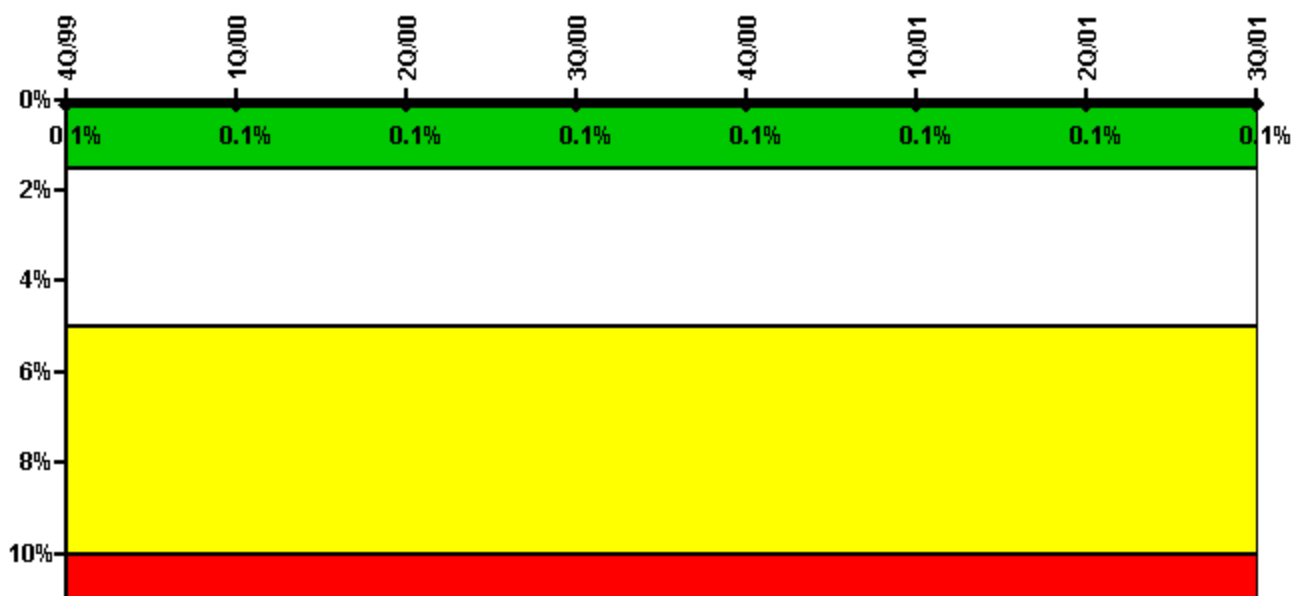
Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	17.30	13.40	26.60	17.39	11.50	14.05	5.97	86.35
Unplanned unavailable hours	0	0	0	83.68	0	0	0	13.13
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2076.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	41.05	26.08	16.86	33.78	19.74	26.29	15.55	16.18
Unplanned unavailable hours	0	0	50.20	0	10.30	0	131.35	0.33
Fault exposure hours	0	0	0	0	0	0	192.03	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	1.2%	1.2%	1.3%	1.5%	1.6%	1.4%	2.1%	2.2%

Licensee Comments:

3Q/01: An audit of 2nd quarter data required correcting planned unavailability hours for #1 EDG for May. Also, upon further evaluation, fault exposure and unplanned unavailable hours required correction for #3 EDG for April. Data was corrected with no change in color.

Safety System Unavailability, High Pressure Injection System (HPSI)



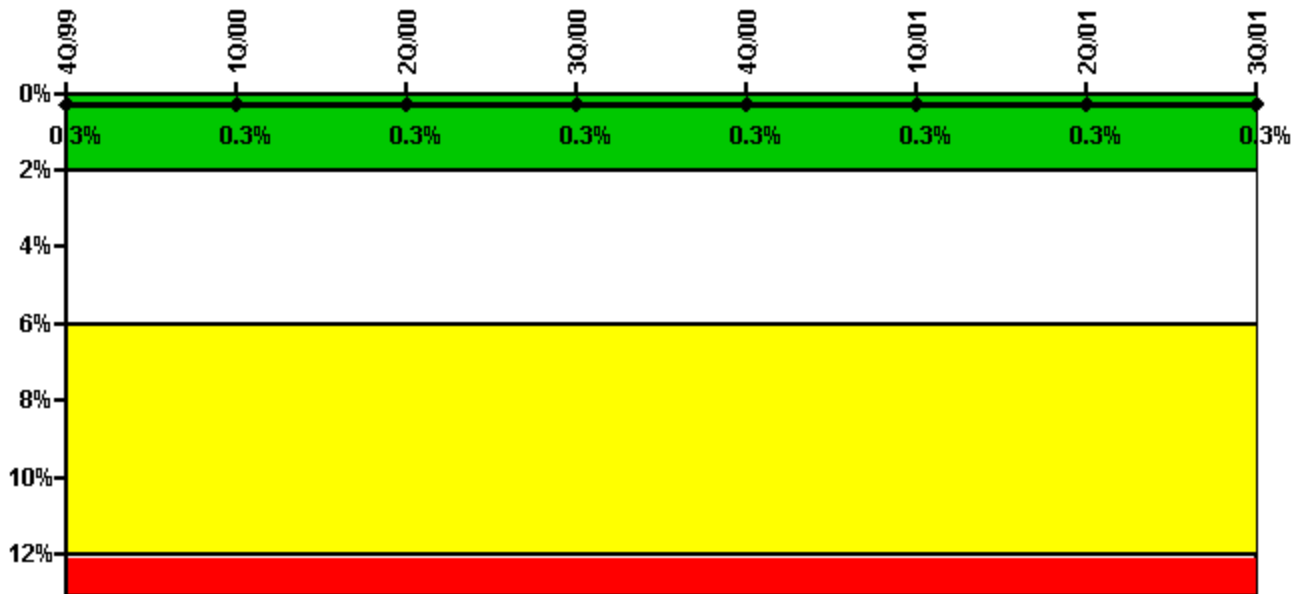
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	0	5.20	0	0	0	3.60	0	0
Unplanned unavailable hours	0	0	1.20	0	0	0	0	0
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	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	10.00	9.70	0	1.00	0.70	0.50	2.50
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	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



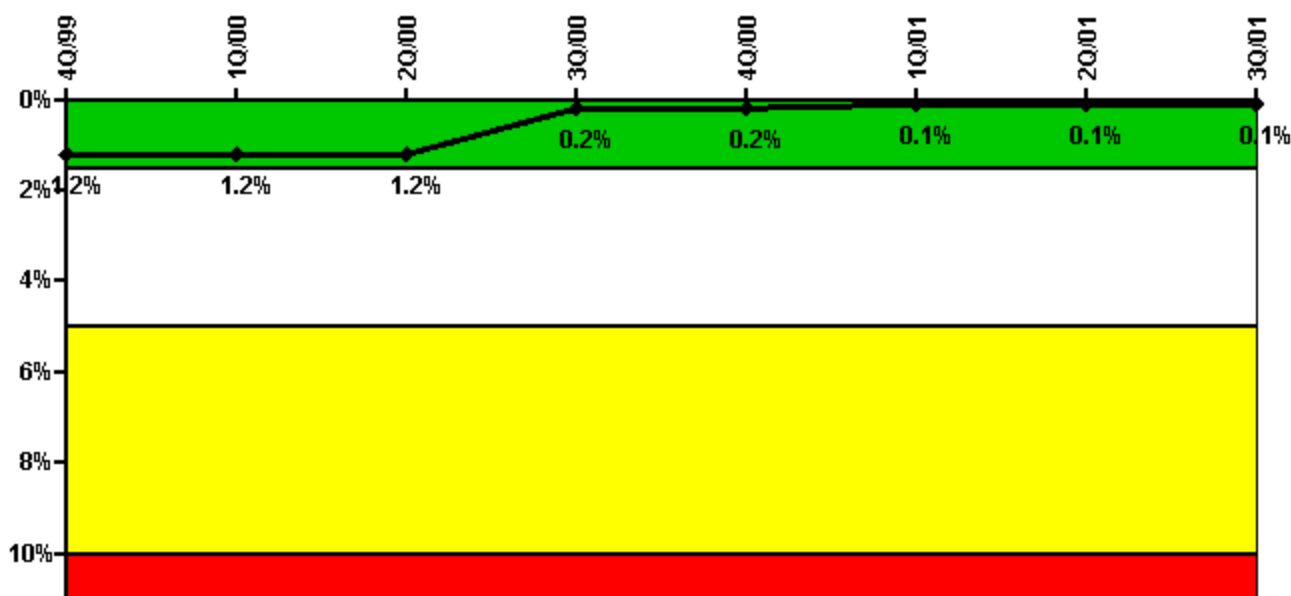
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	3.30	2.90	0.60	3.19	15.57	12.40	1.80	12.20
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	1.50	1.20	0.92	2.23	0	1.90	1.60
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	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	2.00	19.90	11.30	2.48	18.20	11.30	3.50	1.40
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2197.00	2209.00	2160.00	2183.00	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, Residual Heat Removal System



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

Notes

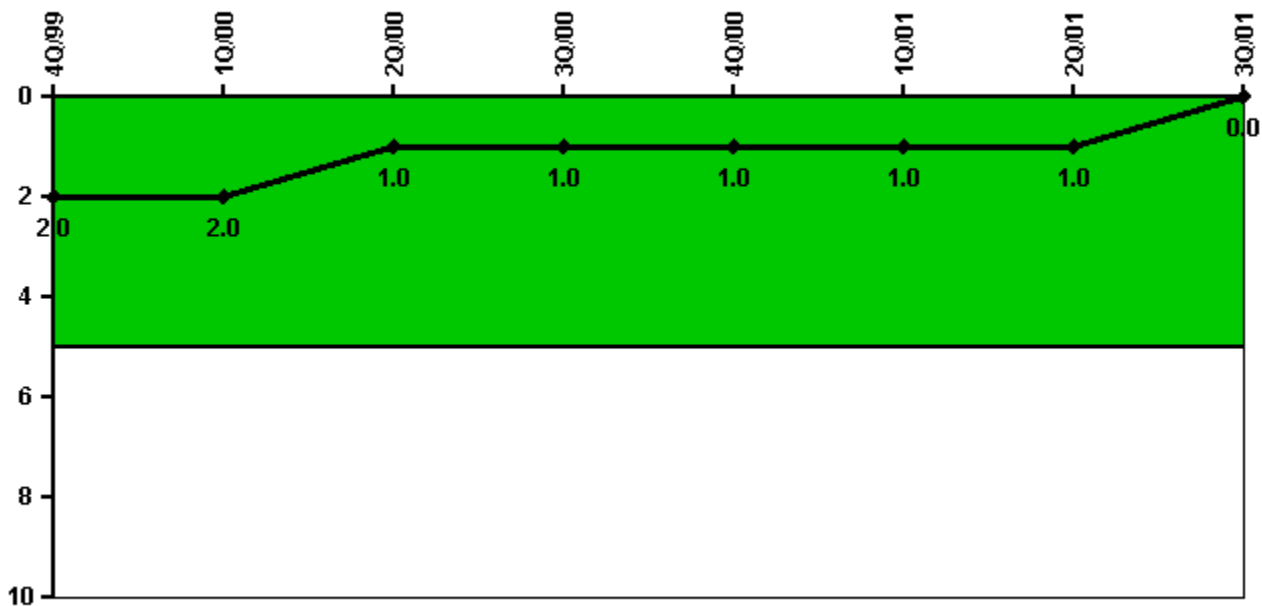
Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	0	10.00	0.40	0.58	0	1.10	0.20	11.50
Unplanned unavailable hours	0	0	1.50	0	0	2.10	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	0.10	0.40	13.15	0	0.10	0.10	0.50
Unplanned unavailable hours	0	0	0	0	0	2.10	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	1015.00	0	0	0	0
Required hours	2209.00	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	0	10.40	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	2184.00	2076.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 4								
Planned unavailable hours	0	0	10.50	0	0	0	0	0
Unplanned unavailable hours	0	0	6.80	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	2209.00	2184.00	2076.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	1.2%	1.2%	1.2%	0.2%	0.2%	0.1%	0.1%	0.1%

Licensee Comments: none

Effective Reset Comments:

3Q/00: Previously reset hours were reset under the new process.

Safety System Functional Failures (PWR)



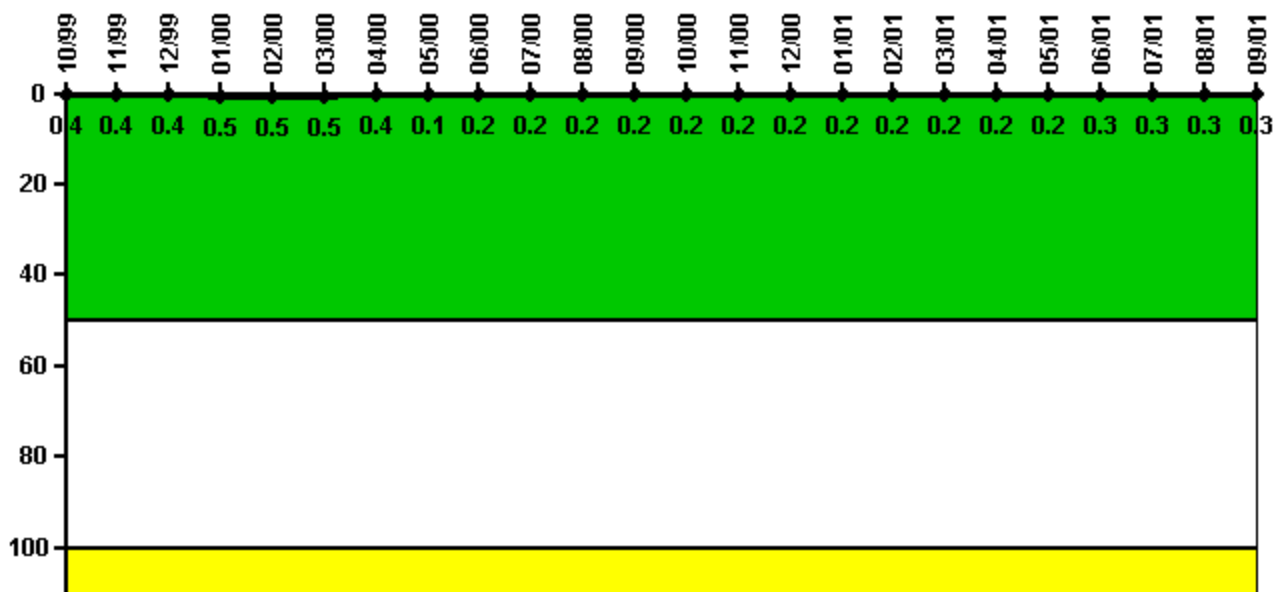
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

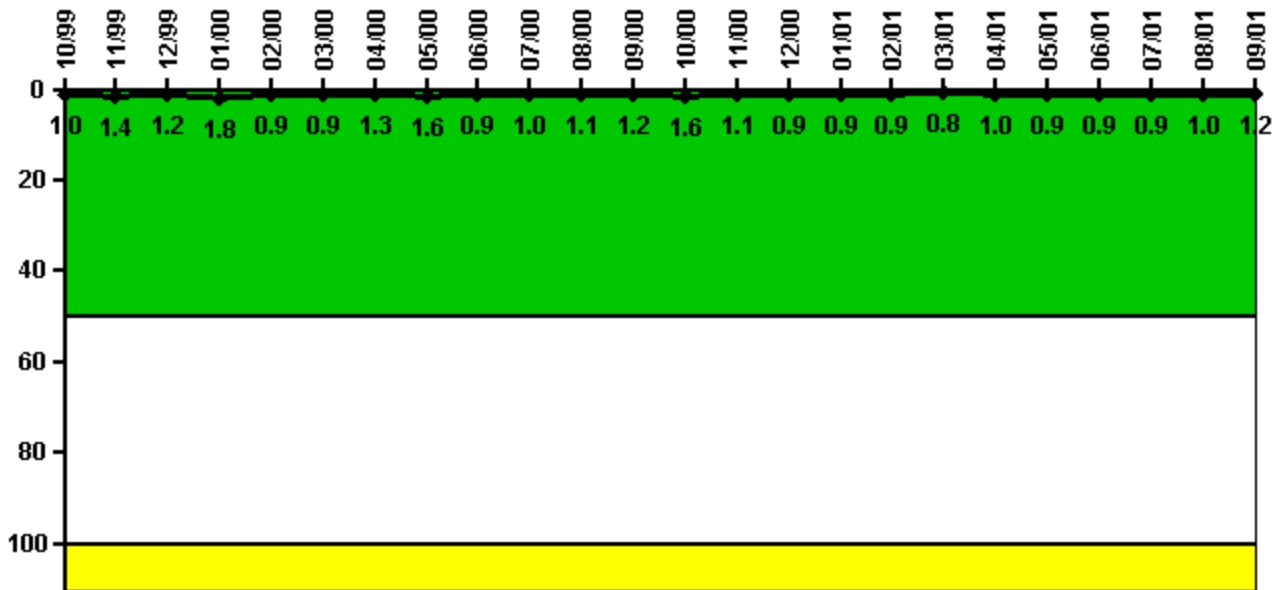
Notes

Reactor Coolant System Activity	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	0.004070	0.004460	0.004370	0.004500	0.004660	0.005130	0.003910	0.001360	0.001720	0.001550	0.001770	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	0.4	0.4	0.4	0.5	0.5	0.5	0.4	0.1	0.2	0.2	0.2	0.2

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	0.002060	0.002060	0.002000	0.002240	0.002240	0.002270	0.002450	0.002450	0.002500	0.002630	0.002840	0.003020
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

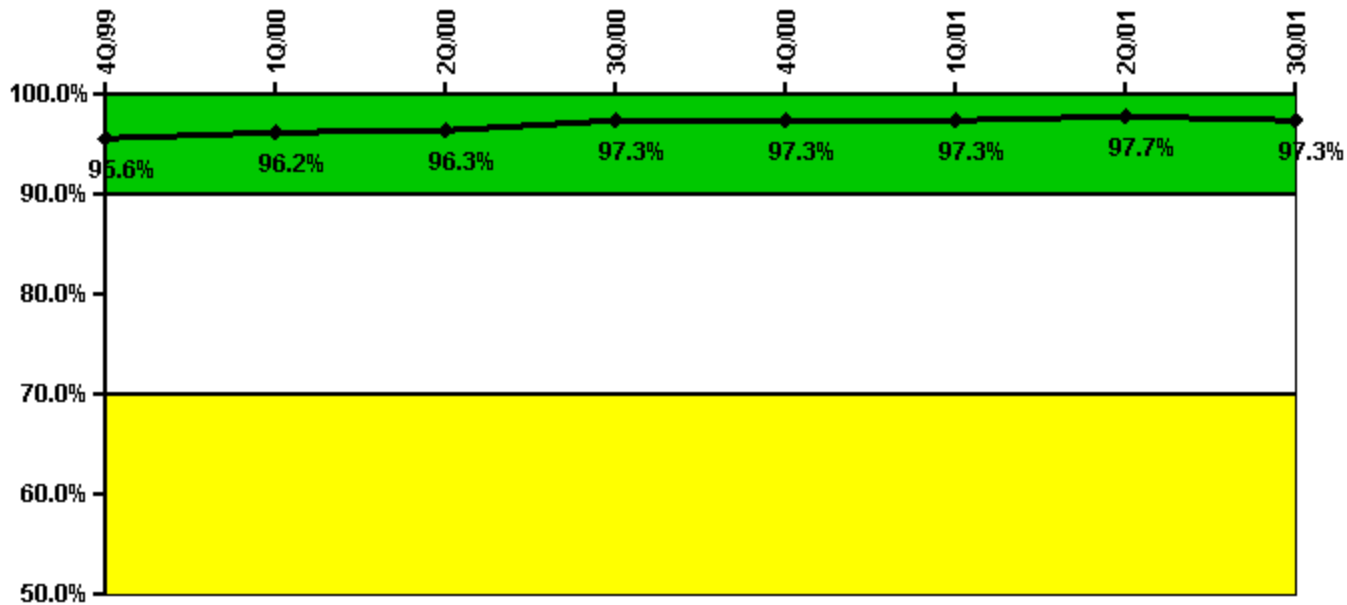
Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.100	0.140	0.120	0.180	0.090	0.090	0.130	0.160	0.090	0.100	0.110	0.120
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.4	1.2	1.8	0.9	0.9	1.3	1.6	0.9	1.0	1.1	1.2

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	0.160	0.110	0.090	0.090	0.090	0.080	0.100	0.090	0.090	0.090	0.100	0.120
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.6	1.1	0.9	0.9	0.9	0.8	1.0	0.9	0.9	0.9	1.0	1.2

Licensee Comments: none

Drill/Exercise Performance



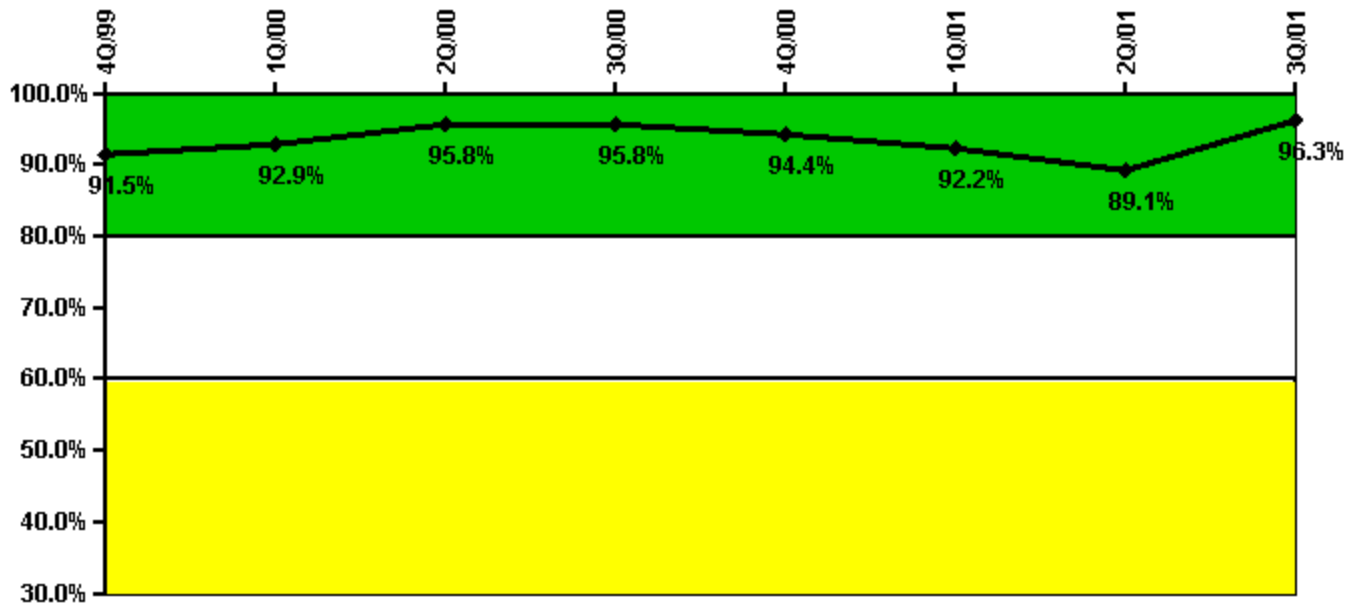
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Successful opportunities	78.0	44.0	7.0	72.0	0	0	49.0	39.0
Total opportunities	81.0	45.0	7.0	72.0	0	0	51.0	41.0
Indicator value	95.6%	96.2%	96.3%	97.3%	97.3%	97.3%	97.7%	97.3%

Licensee Comments: none

ERO Drill Participation



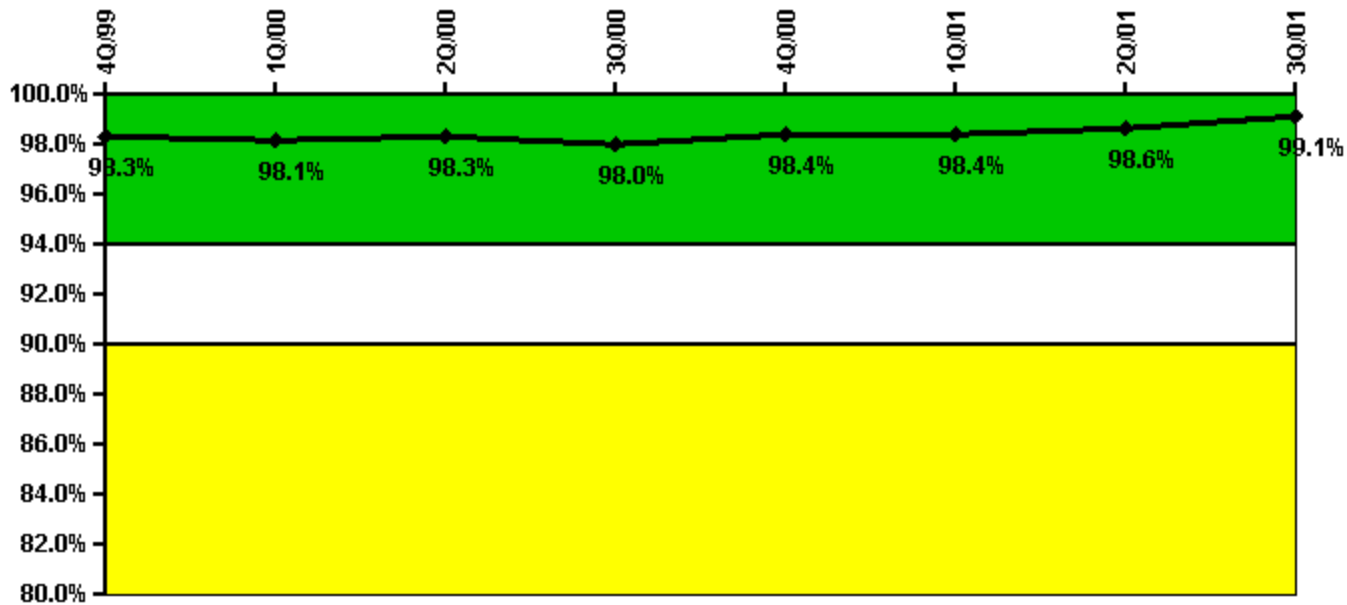
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Participating Key personnel	151.0	157.0	158.0	161.0	136.0	119.0	123.0	129.0
Total Key personnel	165.0	169.0	165.0	168.0	144.0	129.0	138.0	134.0
Indicator value	91.5%	92.9%	95.8%	95.8%	94.4%	92.2%	89.1%	96.3%

Licensee Comments: none

Alert & Notification System



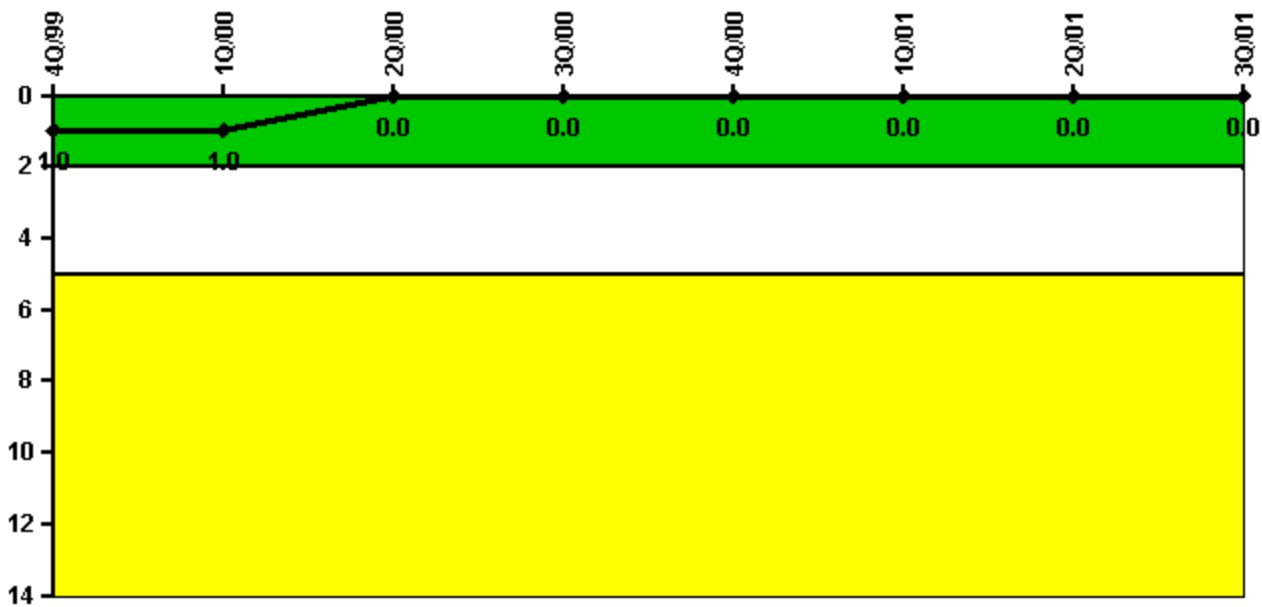
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Successful siren-tests	492	498	441	437	444	442	507	447
Total sirens-tests	504	506	448	448	448	448	512	448
Indicator value	98.3%	98.1%	98.3%	98.0%	98.4%	98.4%	98.6%	99.1%

Licensee Comments: none

Occupational Exposure Control Effectiveness



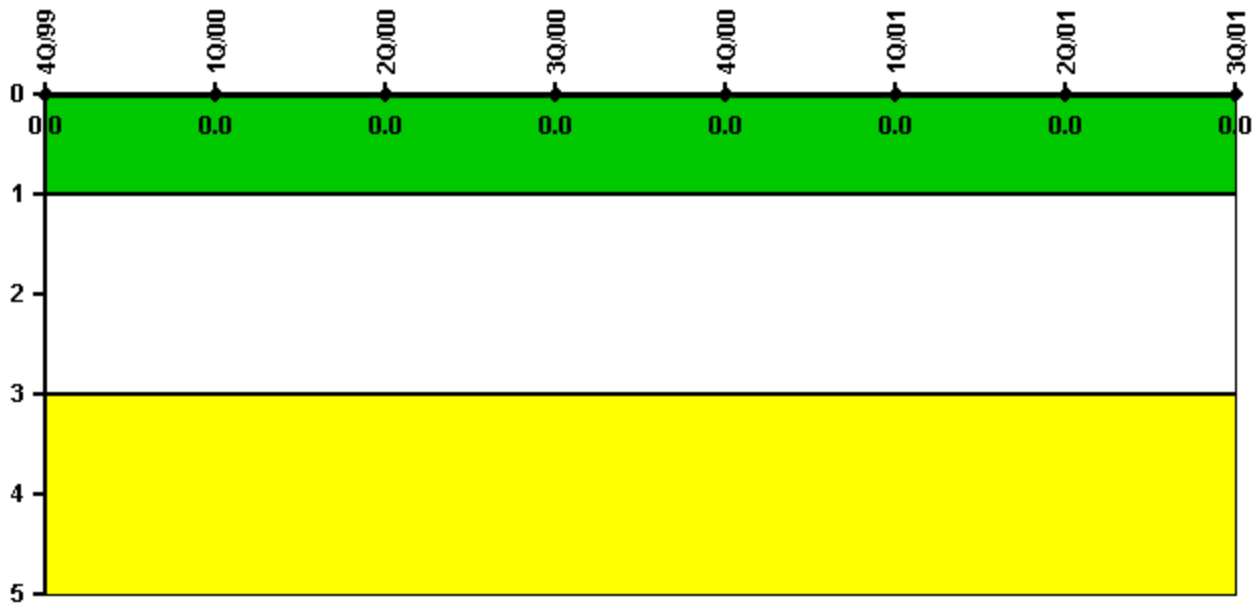
Thresholds: White > 2.0 Yellow > 5.0

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



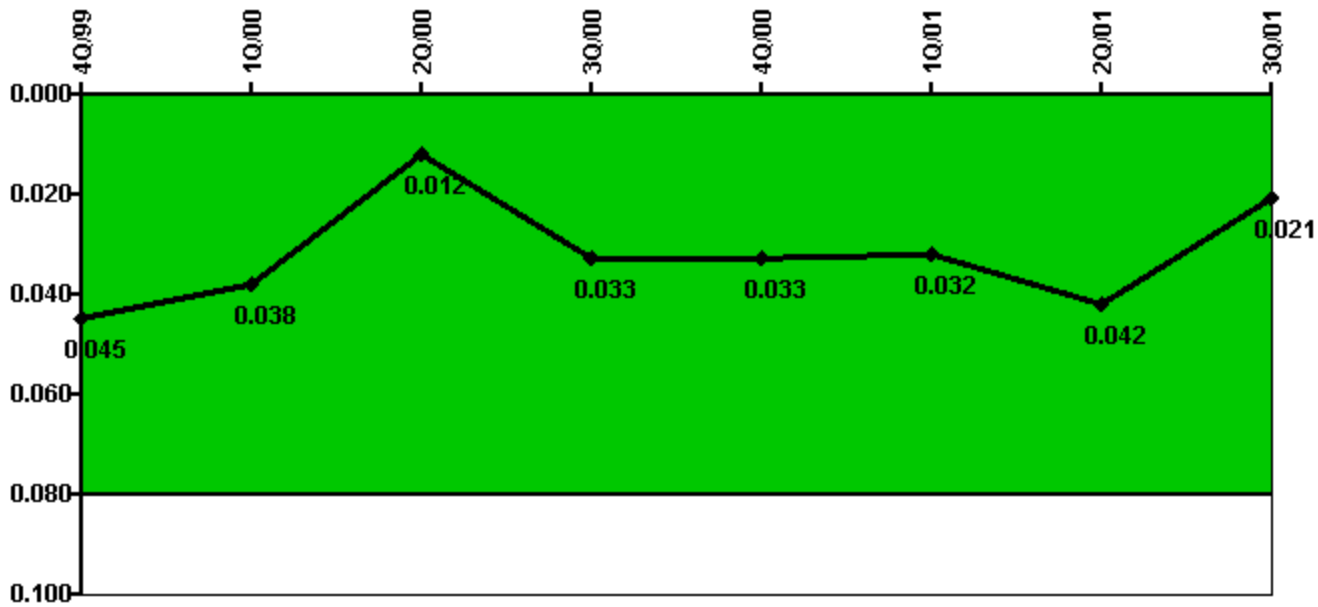
Thresholds: White > 1.0 Yellow > 3.0

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

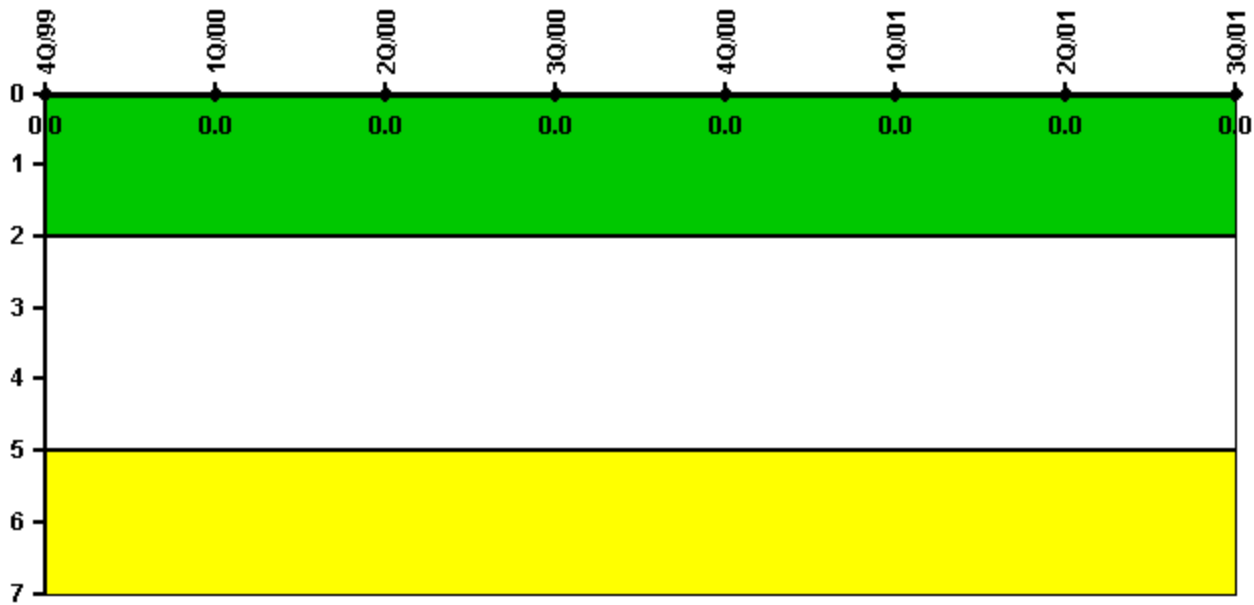
Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
IDS compensatory hours	8.20	26.05	59.40	513.85	16.10	0	246.48	117.92
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.045	0.038	0.012	0.033	0.033	0.032	0.042	0.021

Licensee Comments:

3Q/01: The Protected Area perimeter threat assessment function at Surry is primarily provided by armed response personnel in towers. This performance data reflects one CCTV camera which covers the part of the perimeter not covered by a tower.

Personnel Screening Program



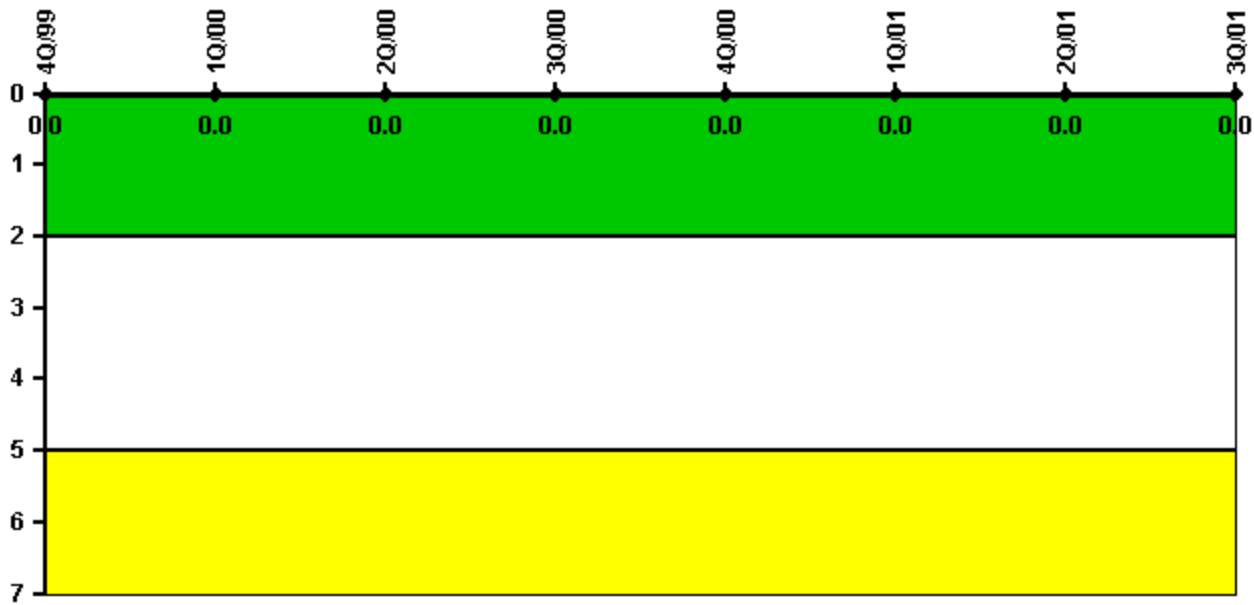
Thresholds: White > 2.0 Yellow > 5.0

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

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

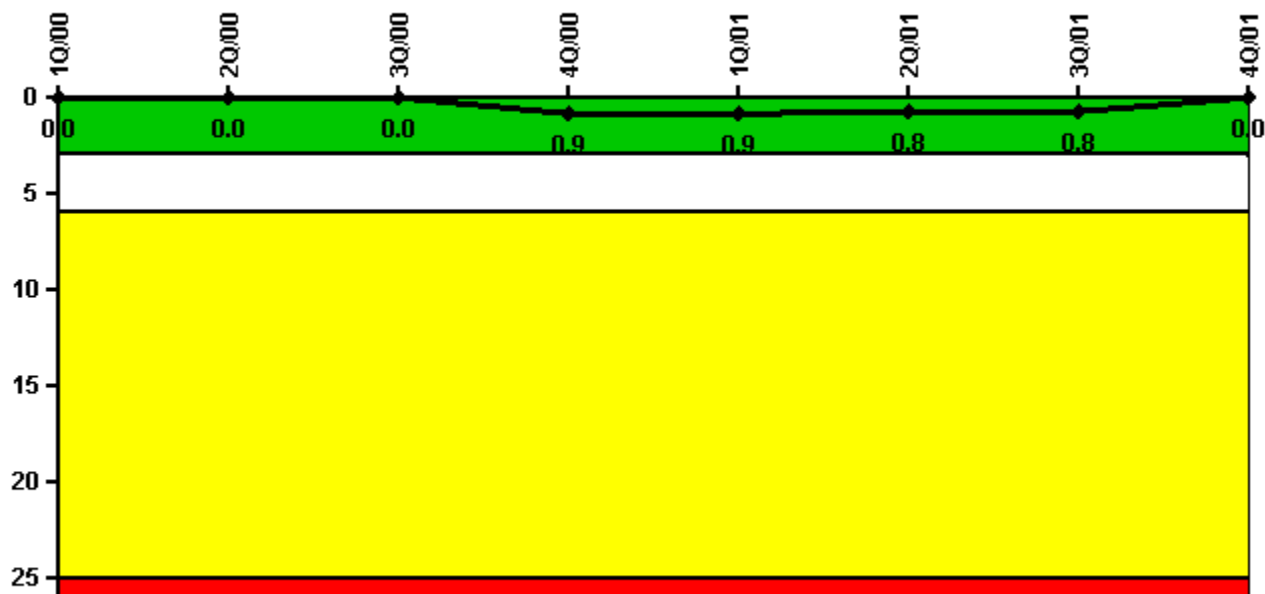
Last Modified: March 26, 2002

Surry 1

4Q/2001 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2184.0	1646.0	2208.0	2189.6	2160.0	2145.9	2208.0	943.6
Indicator value	0	0	0	0.9	0.9	0.8	0.8	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



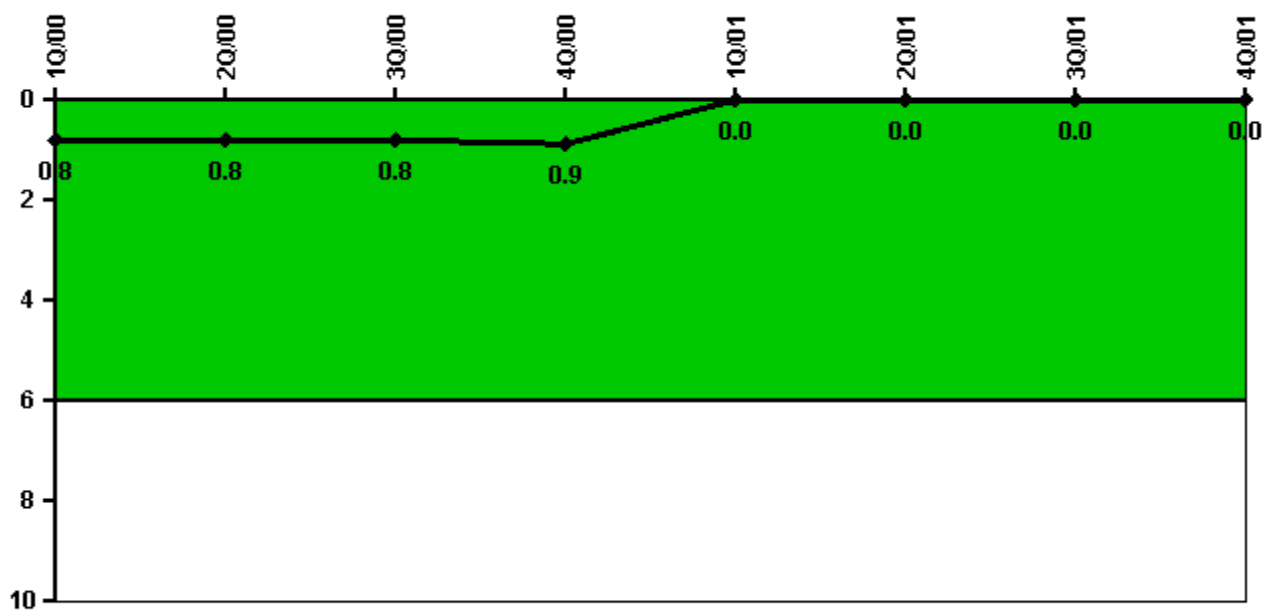
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



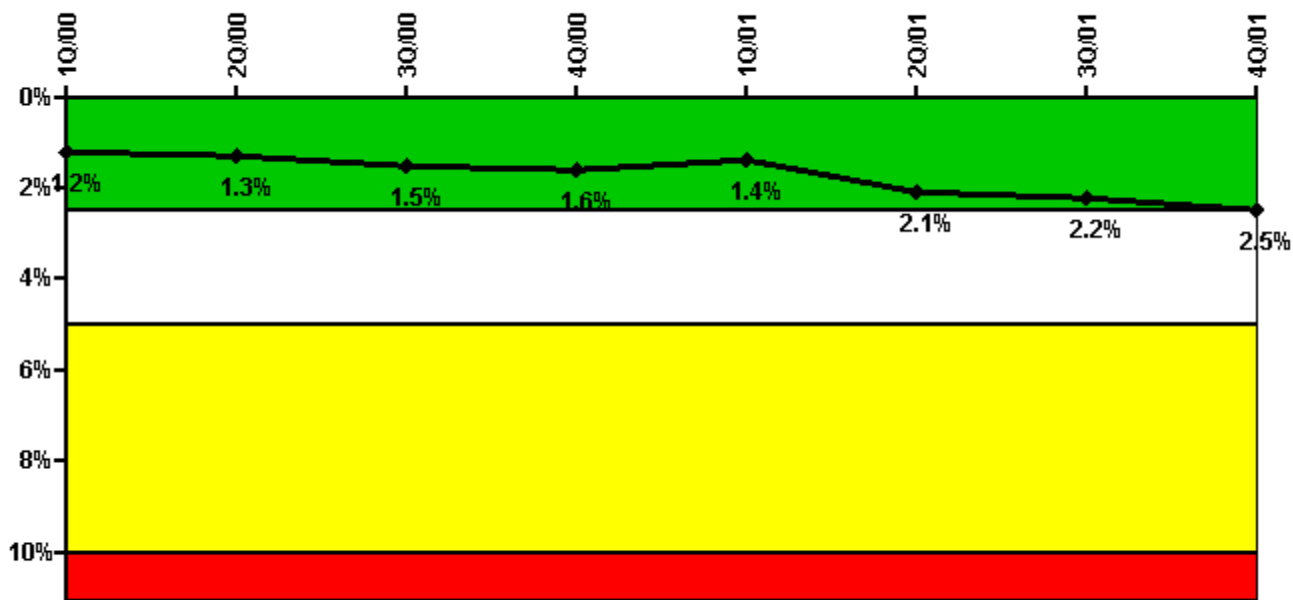
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2184.0	1646.0	2208.0	2189.6	2160.0	2145.9	2208.0	943.6
Indicator value	0.8	0.8	0.8	0.9	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



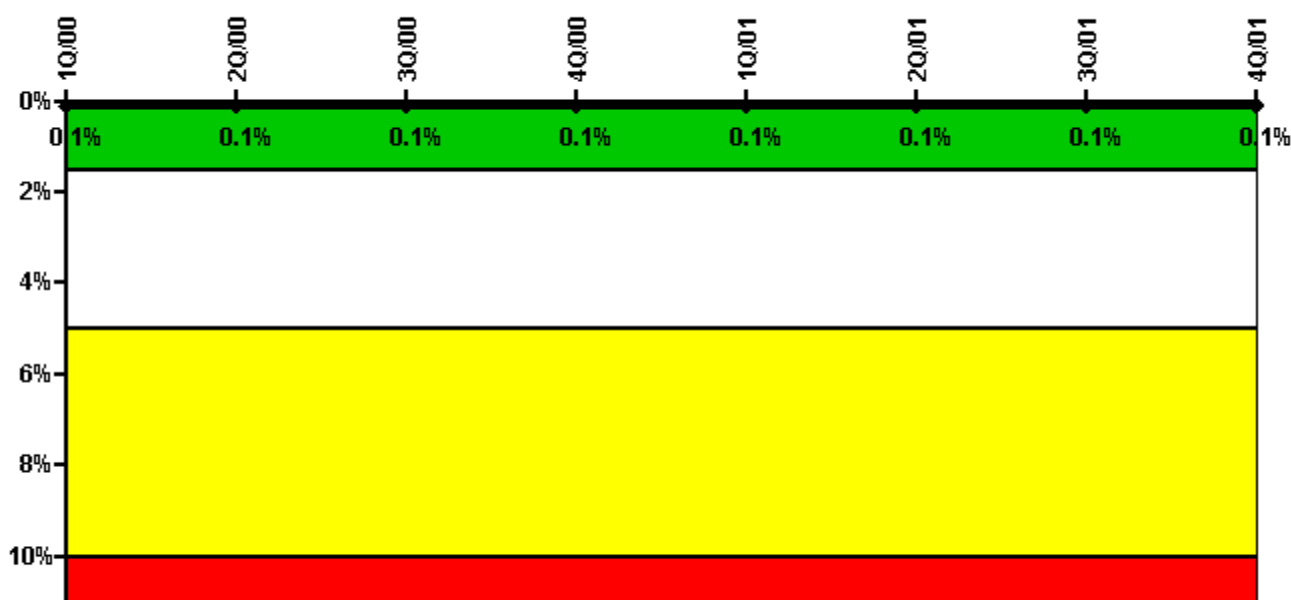
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	13.40	26.60	17.39	11.50	14.05	5.97	86.35	1.35
Unplanned unavailable hours	0	0	83.68	0	0	0	13.13	0
Fault exposure hours	0	0	0	0	0	0	0	237.77
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2076.00	2208.00	2209.00	2160.00	2183.00	2208.00	1008.45
Train 2								
Planned unavailable hours	26.08	16.86	33.78	19.74	26.29	15.55	16.18	1.95
Unplanned unavailable hours	0	50.20	0	10.30	0	131.35	0.33	0
Fault exposure hours	0	0	0	0	0	192.03	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	1008.45
Indicator value	1.2%	1.3%	1.5%	1.6%	1.4%	2.1%	2.2%	2.5%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



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

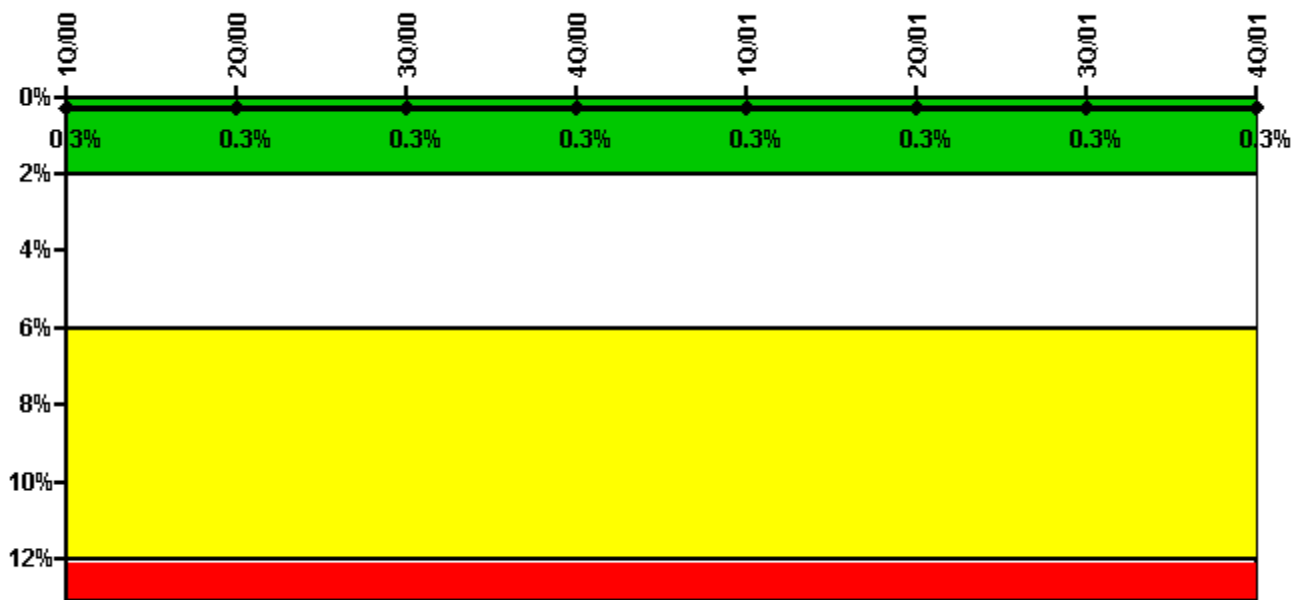
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	5.20	0	0	0	3.60	0	0	0
Unplanned unavailable hours	0	1.20	0	0	0	0	0	0
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	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	994.70
Train 2								
Planned unavailable hours	10.00	9.70	0	1.00	0.70	0.50	2.50	0.70
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	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	994.70
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments:

4Q/01: An audit of data required correcting planned unavailability hours for Train 2 for November, 2000 and August, 2001. Data was corrected with no change in color.

Safety System Unavailability, Heat Removal System (AFW)



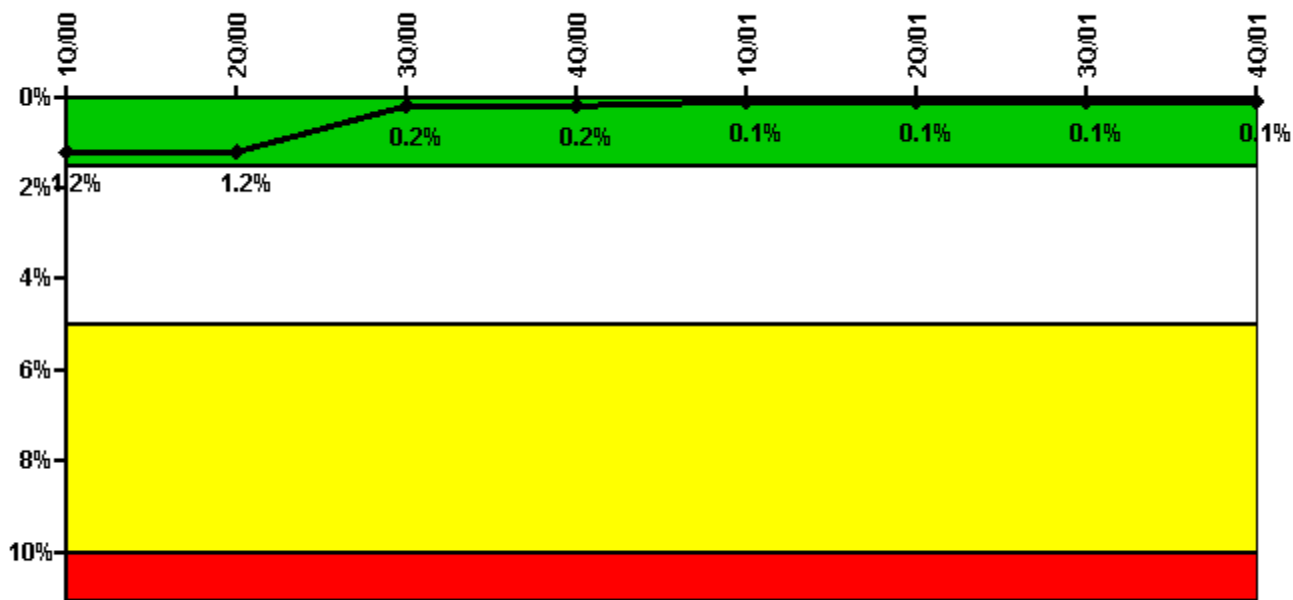
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	2.90	0.60	3.19	15.57	12.40	1.80	12.20	0.20
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	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	994.70
Train 2								
Planned unavailable hours	1.50	1.20	0.92	2.23	0	1.90	1.60	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	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	994.70
Train 3								
Planned unavailable hours	19.90	11.30	2.48	18.20	11.30	3.50	1.40	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	1699.00	2197.00	2209.00	2160.00	2183.00	2208.00	994.70
Indicator value	0.3%	0.3%	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

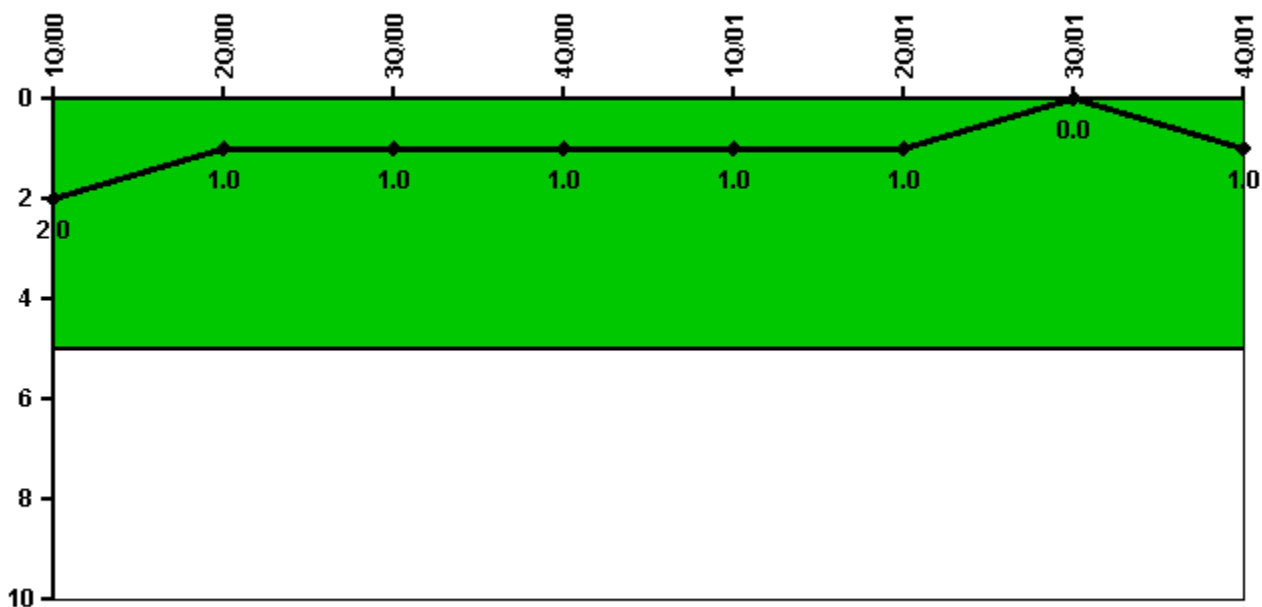
Safety System Unavailability, Residual Heat Removal System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	10.00	0.40	0.58	0	1.10	0.20	11.50	0.20
Unplanned unavailable hours	0	1.50	0	0	2.10	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	1771.80
Train 2								
Planned unavailable hours	0.10	0.40	13.15	0	0.10	0.10	0.50	0.20
Unplanned unavailable hours	0	0	0	0	2.10	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	1015.00	0	0	0	0	0
Required hours	2184.00	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	1771.80
Train 3								
Planned unavailable hours	0	10.40	0	0	0	0	0	9.40
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	2184.00	2076.00	2208.00	2209.00	2160.00	2183.00	2208.00	1963.30
Train 4								
Planned unavailable hours	0	10.50	0	0	0	0	0	9.40
Unplanned unavailable hours	0	6.80	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	2184.00	2076.00	2208.00	2209.00	2160.00	2183.00	2208.00	1963.30
Indicator value	1.2%	1.2%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Effective Reset Comments:

3Q/00: Previously reset hours were reset under the new process.

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

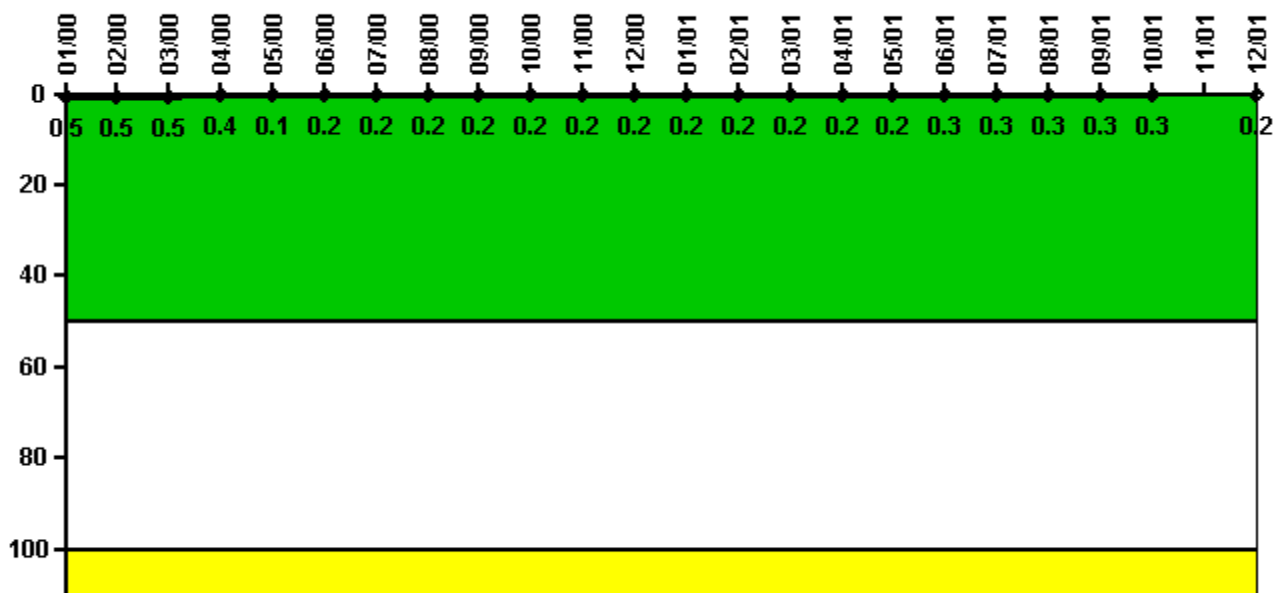
Notes

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	2	1	1	1	1	1	0	1

Licensee Comments:

4Q/01: Refer to Licensing Event Report 50-280, 281/01002-00

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

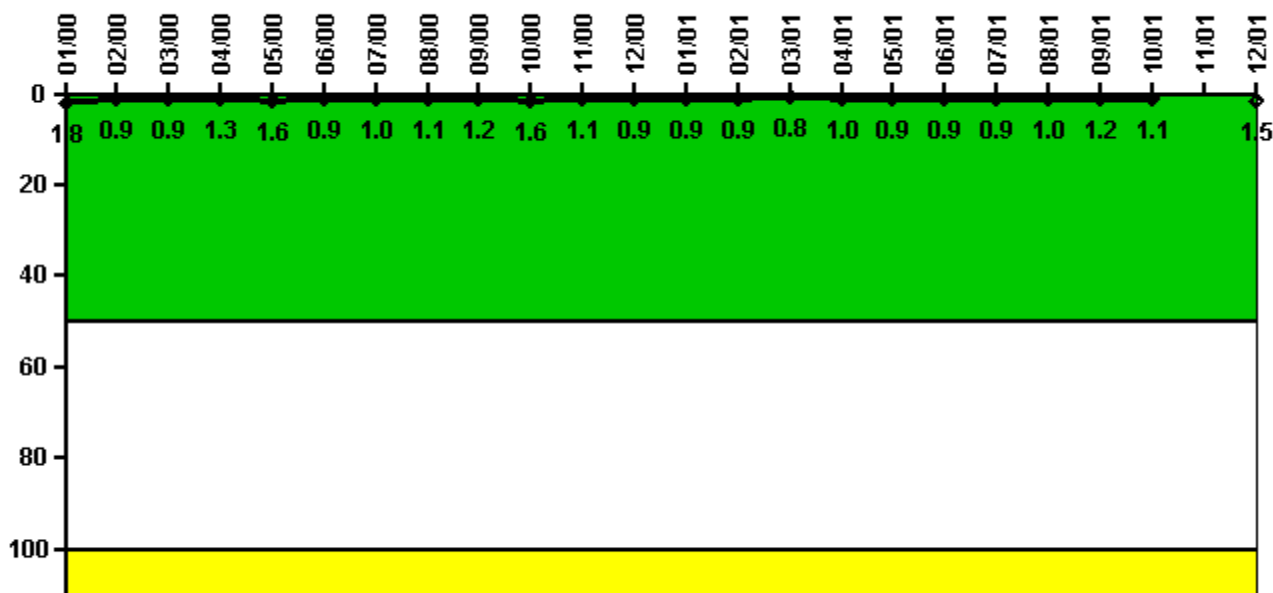
Notes

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	0.004500	0.004660	0.005130	0.003910	0.001360	0.001720	0.001550	0.001770	0.002050	0.002060	0.002060	0.002000
Technical specification limit	1.0	1.0	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	0.4	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2

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	0.002240	0.002240	0.002270	0.002450	0.002450	0.002500	0.002630	0.002840	0.003020	0.002670	N/A	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	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	N/A	0.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

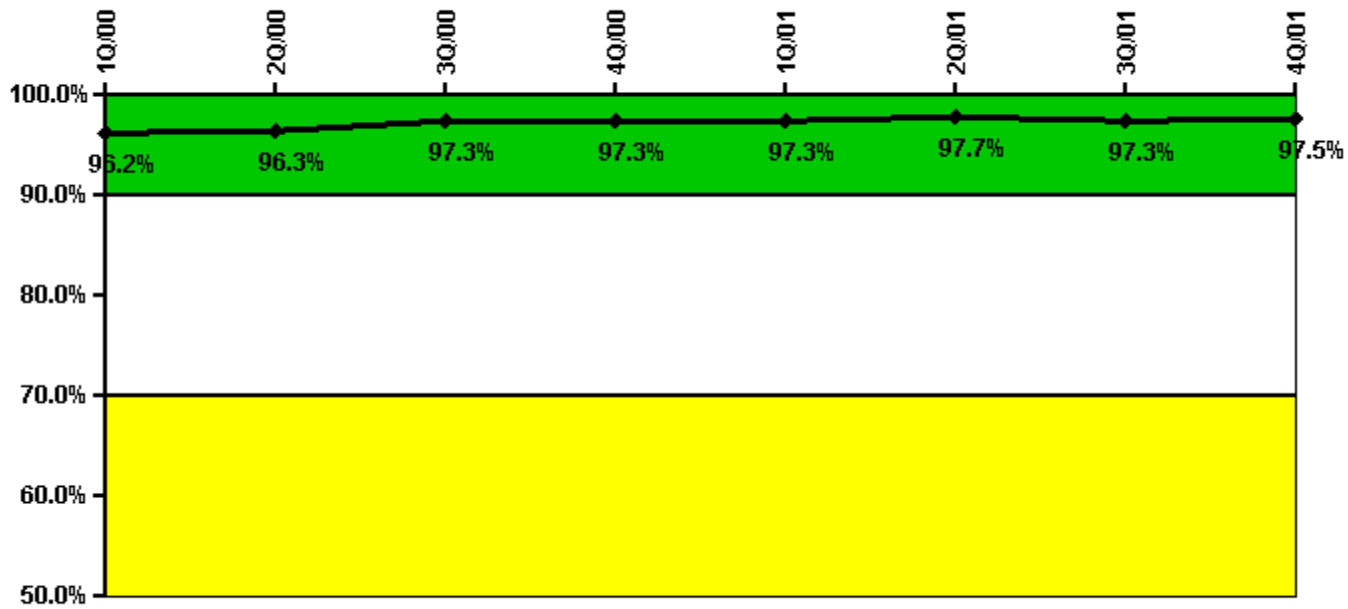
Notes

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	0.180	0.090	0.090	0.130	0.160	0.090	0.100	0.110	0.120	0.160	0.110	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.8	0.9	0.9	1.3	1.6	0.9	1.0	1.1	1.2	1.6	1.1	0.9

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	0.090	0.090	0.080	0.100	0.090	0.090	0.090	0.100	0.120	0.110	N/A	0.150
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.9	0.9	0.8	1.0	0.9	0.9	0.9	1.0	1.2	1.1	N/A	1.5

Licensee Comments: none

Drill/Exercise Performance



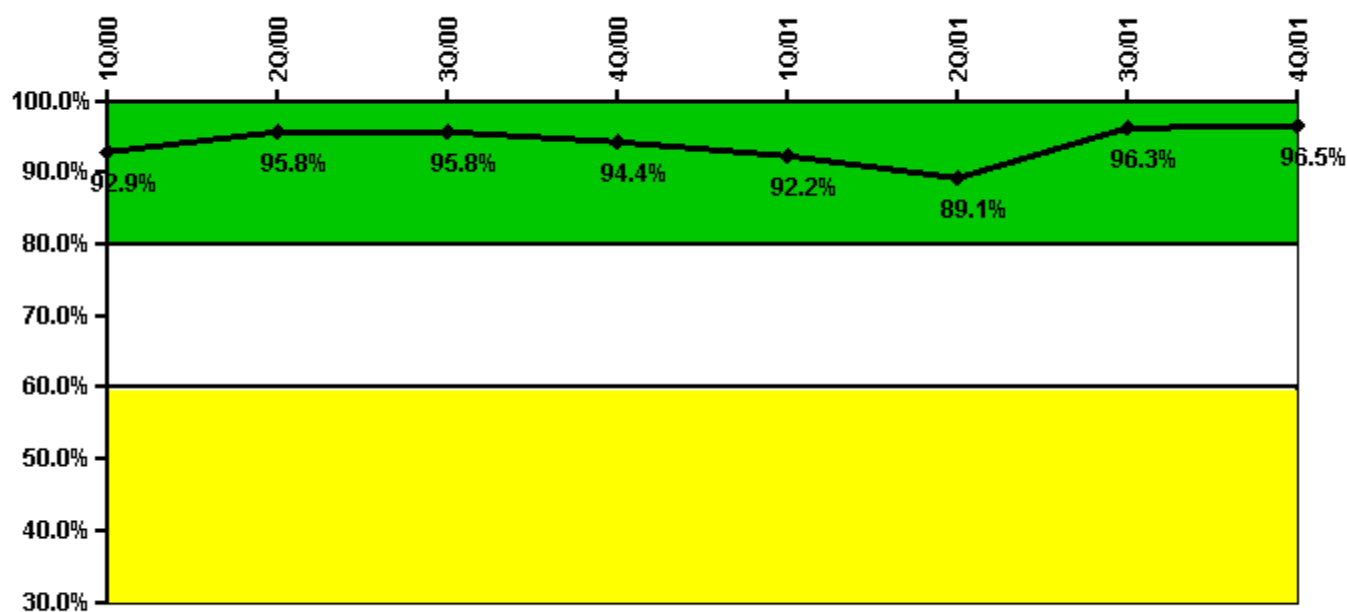
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful opportunities	44.0	7.0	72.0	0	0	49.0	39.0	27.0
Total opportunities	45.0	7.0	72.0	0	0	51.0	41.0	28.0
Indicator value	96.2%	96.3%	97.3%	97.3%	97.3%	97.7%	97.3%	97.5%

Licensee Comments: none

ERO Drill Participation



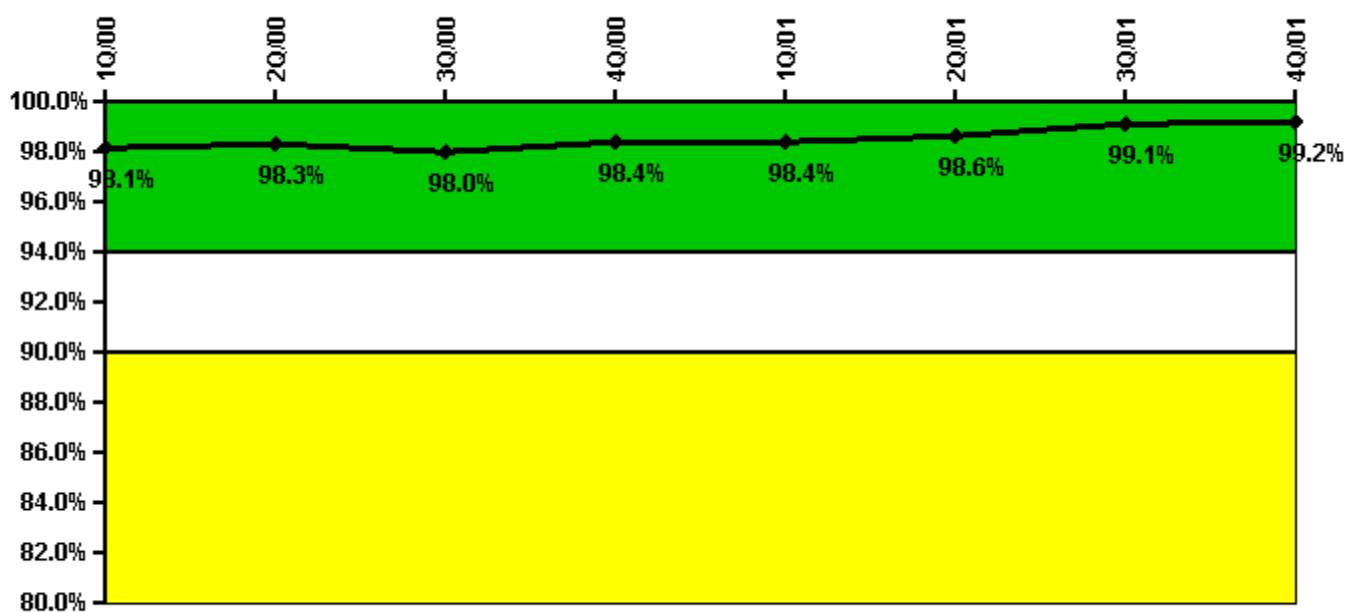
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Participating Key personnel	157.0	158.0	161.0	136.0	119.0	123.0	129.0	137.0
Total Key personnel	169.0	165.0	168.0	144.0	129.0	138.0	134.0	142.0
Indicator value	92.9%	95.8%	95.8%	94.4%	92.2%	89.1%	96.3%	96.5%

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	498	441	437	444	442	507	447	508
Total sirens-tests	506	448	448	448	448	512	448	512
Indicator value	98.1%	98.3%	98.0%	98.4%	98.4%	98.6%	99.1%	99.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness

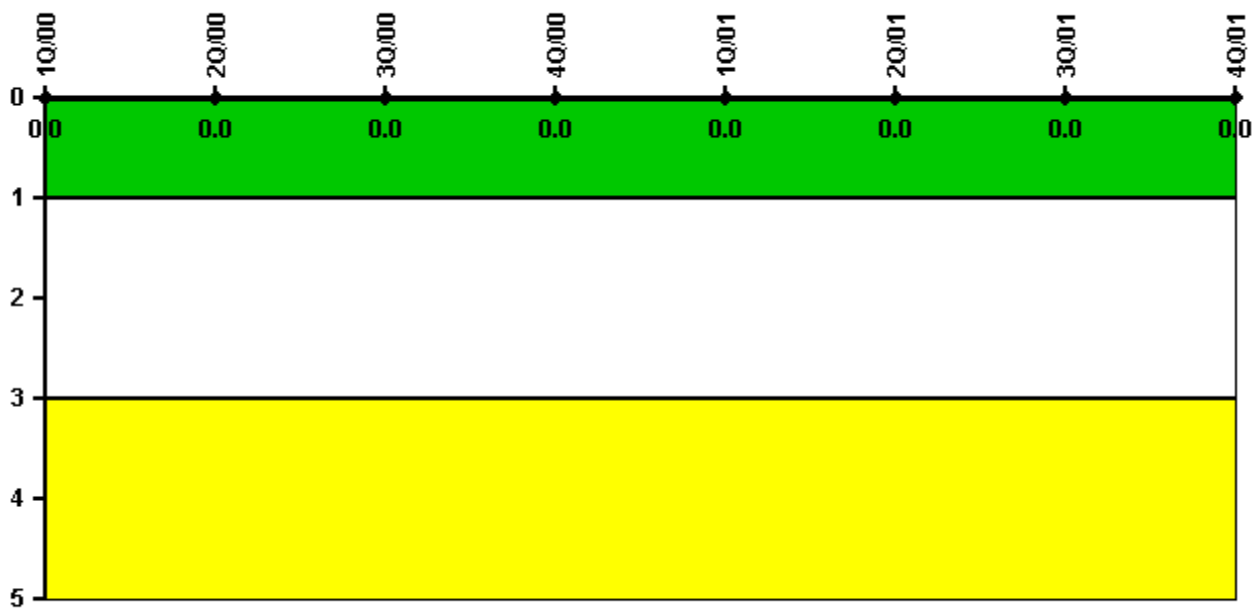


Thresholds: White > 2.0 Yellow > 5.0

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

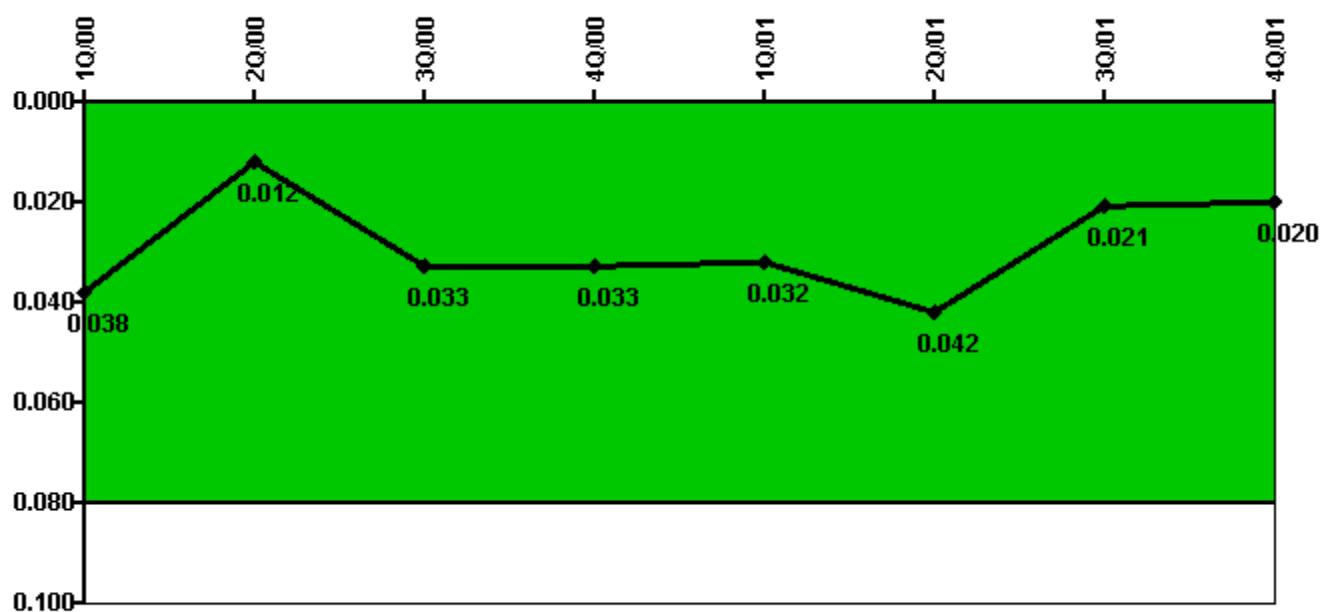
Thresholds: White > 1.0 Yellow > 3.0

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

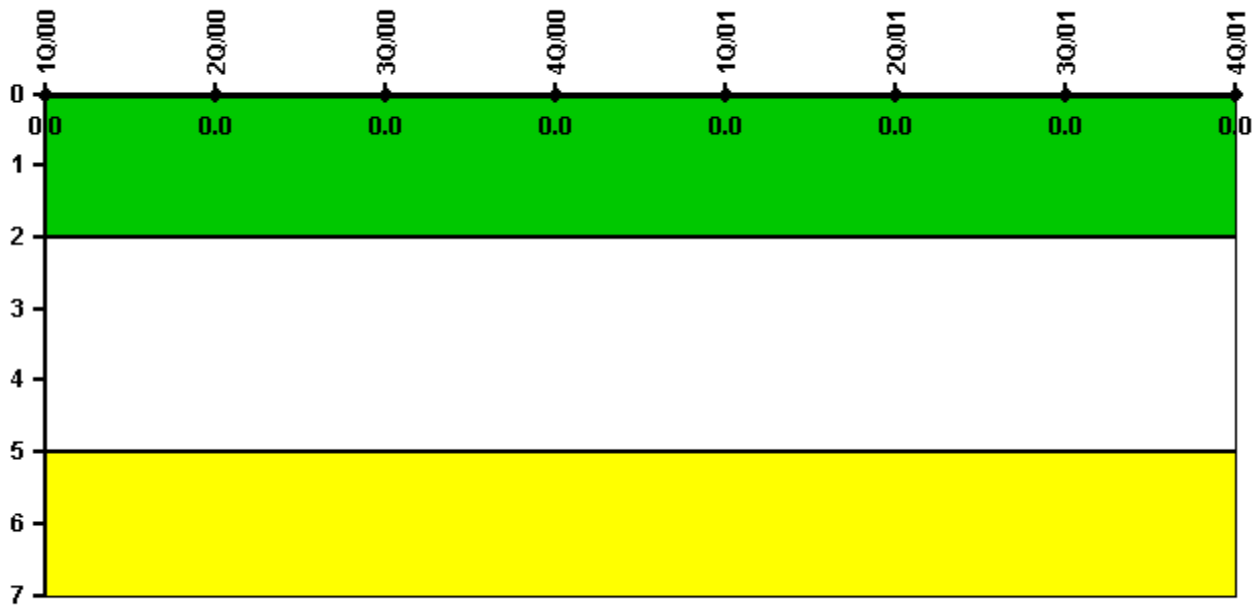
Notes

Protected Area Security Performance Index	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
IDS compensatory hours	26.05	59.40	513.85	16.10	0	246.48	117.92	0
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.038	0.012	0.033	0.033	0.032	0.042	0.021	0.020

Licensee Comments:

4Q/01: The Protected Area perimeter threat assessment function at Surry is primarily provided by armed response personnel in towers. This performance data reflects one CCTV camera which covers the part of the perimeter not covered by a tower.

Personnel Screening Program



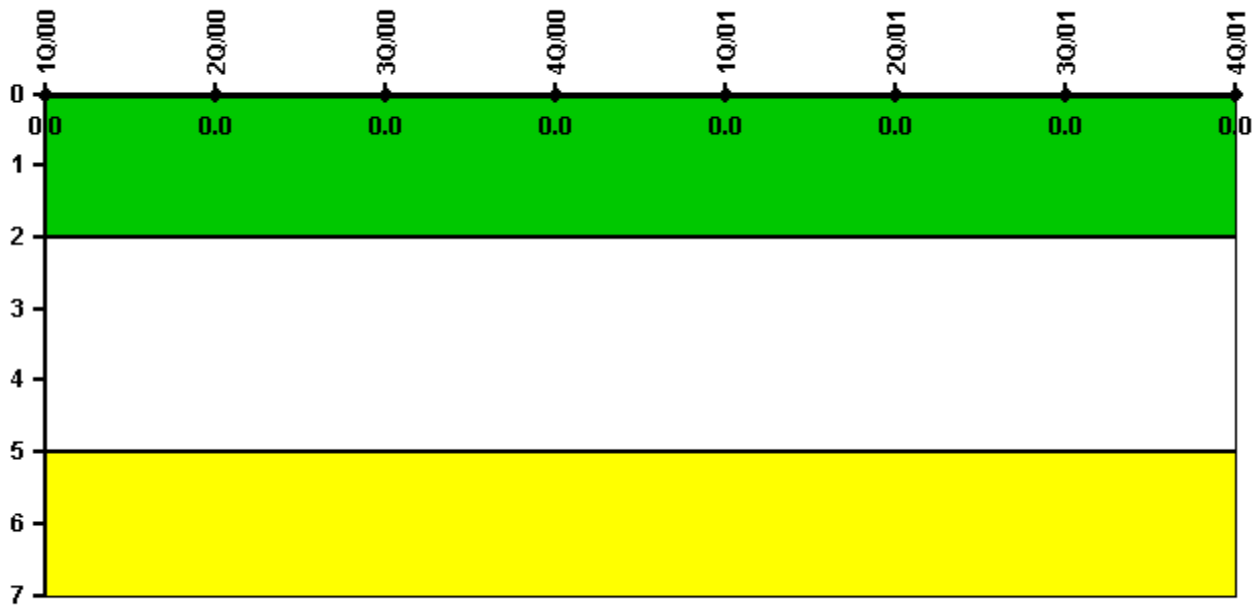
Thresholds: White > 2.0 Yellow > 5.0

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

Surry 1

1Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	1646.0	2208.0	2189.6	2160.0	2145.9	2208.0	943.6	2160.0
Indicator value	0	0	0.9	0.9	0.8	0.8	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



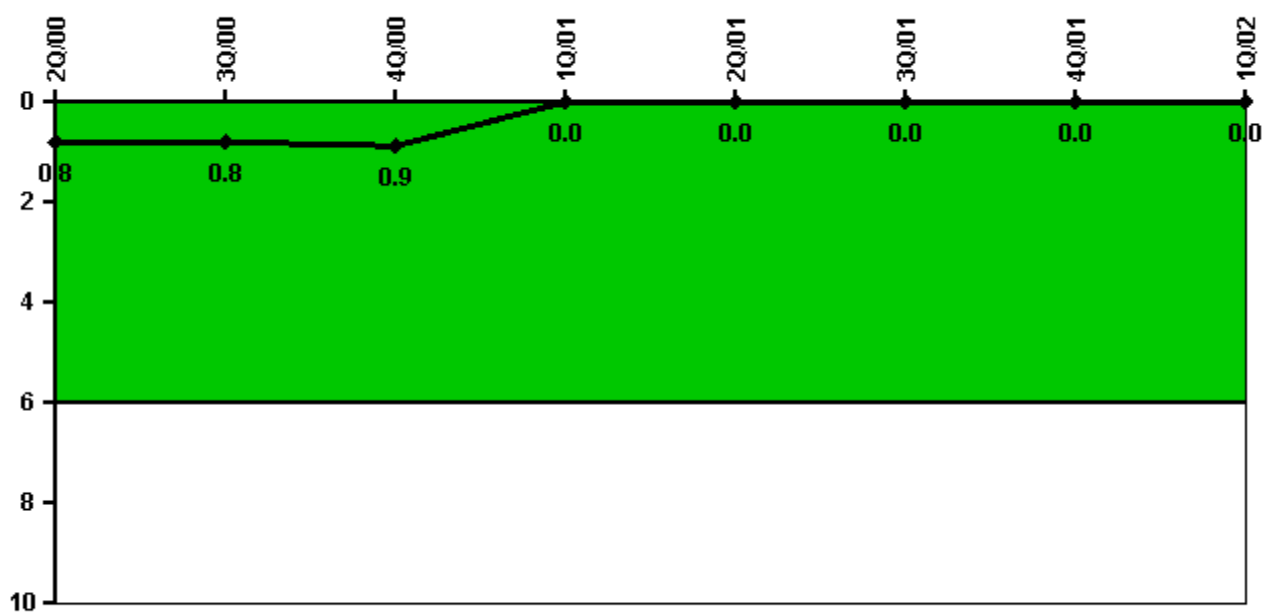
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



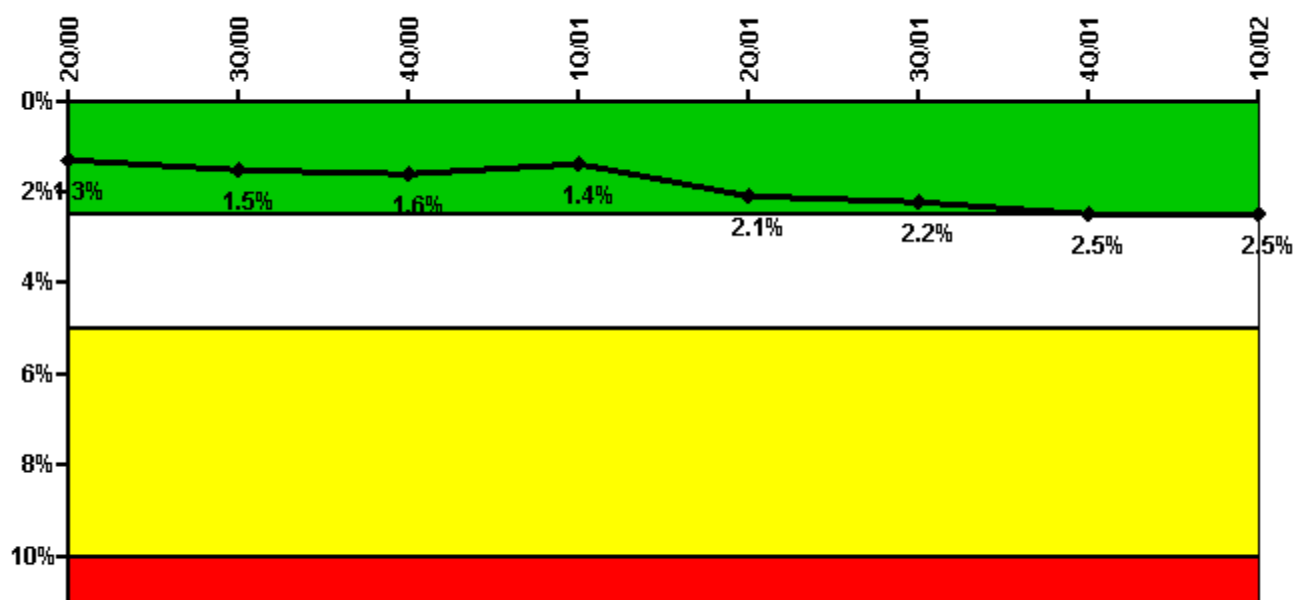
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1646.0	2208.0	2189.6	2160.0	2145.9	2208.0	943.6	2160.0
Indicator value	0.8	0.8	0.9	0	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



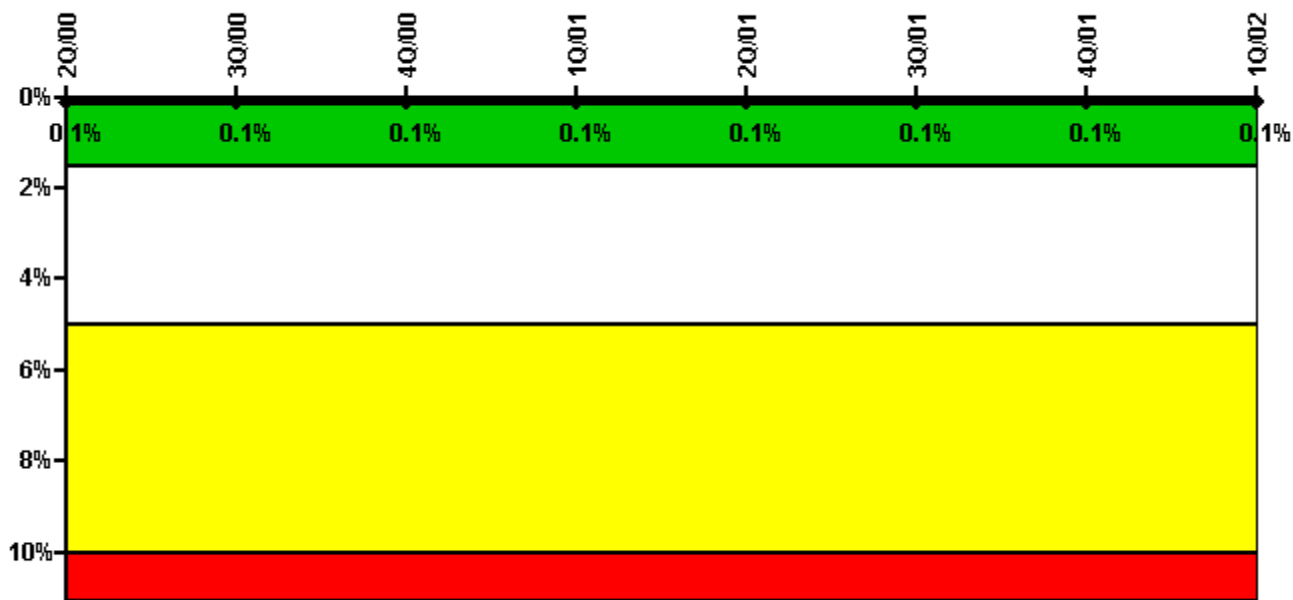
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	26.60	17.39	11.50	14.05	5.97	86.35	1.35	22.75
Unplanned unavailable hours	0	83.68	0	0	0	13.13	0	0.62
Fault exposure hours	0	0	0	0	0	0	237.77	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2076.00	2208.00	2209.00	2160.00	2183.00	2208.00	1008.45	2160.00
Train 2								
Planned unavailable hours	16.86	33.78	19.74	26.29	15.55	16.18	1.95	6.02
Unplanned unavailable hours	50.20	0	10.30	0	131.35	0.33	0	7.18
Fault exposure hours	0	0	0	0	192.03	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	1008.45	2160.00
Indicator value	1.3%	1.5%	1.6%	1.4%	2.1%	2.2%	2.5%	2.5%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



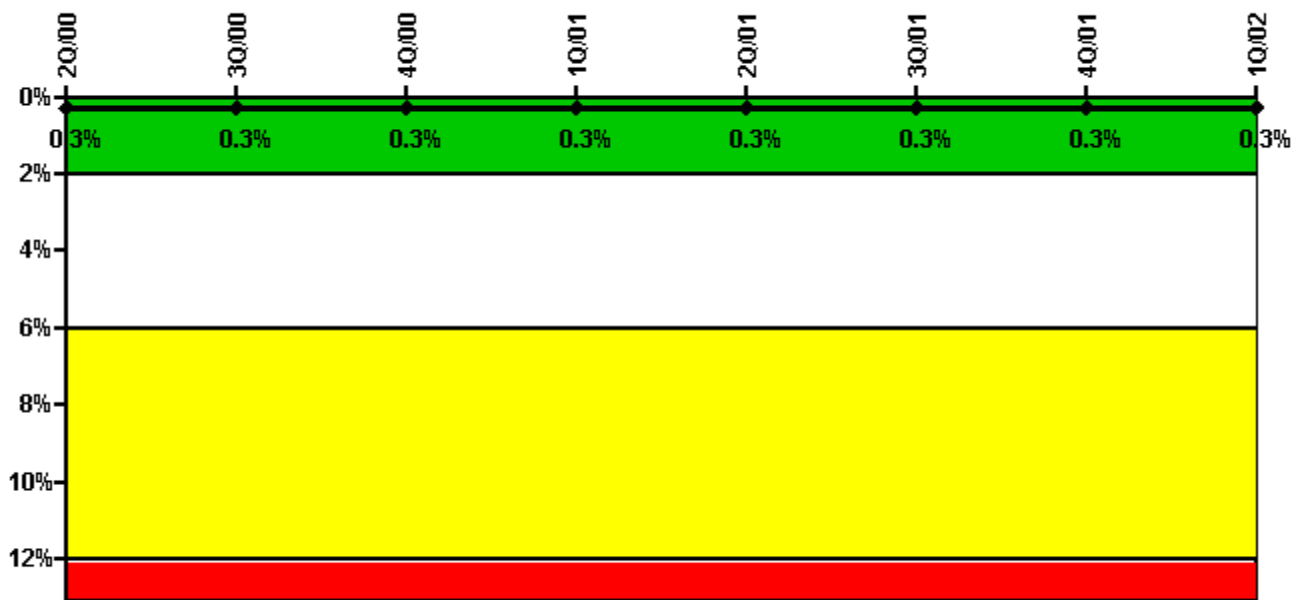
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	0	0	0	3.60	0	0	0	0
Unplanned unavailable hours	1.20	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	994.70	2160.00
Train 2								
Planned unavailable hours	9.70	0	1.00	0.70	0.50	2.50	0.70	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	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	994.70	2160.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

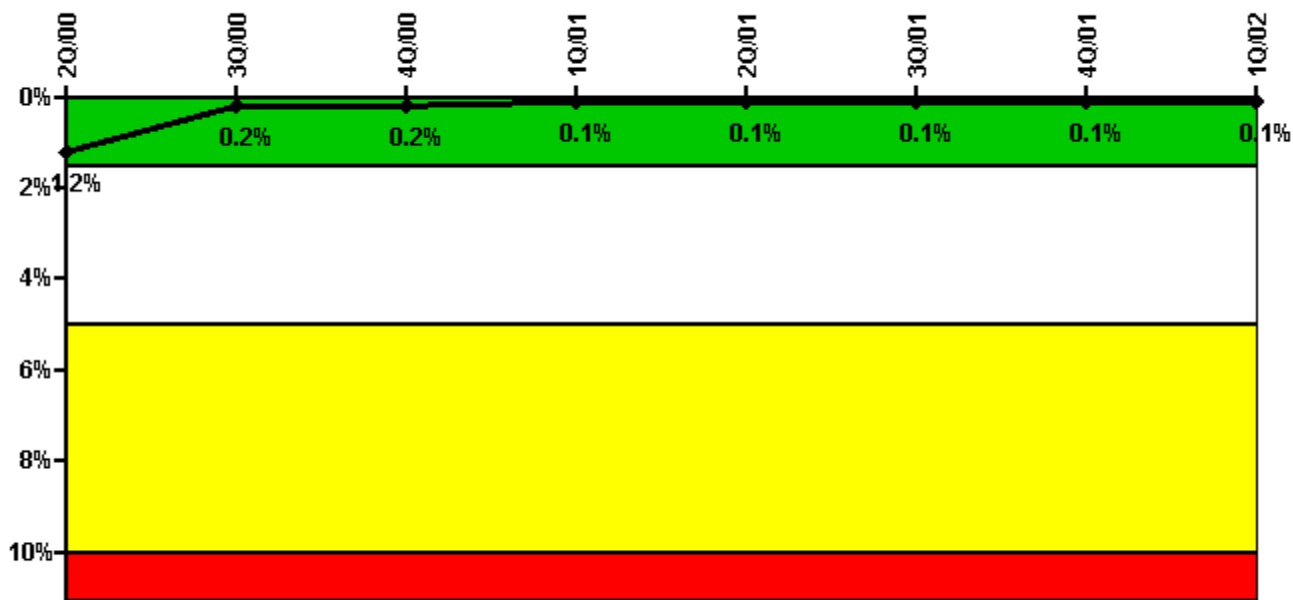
Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	0.60	3.19	15.57	12.40	1.80	12.20	0.20	10.80
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	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	994.70	2160.00
Train 2								
Planned unavailable hours	1.20	0.92	2.23	0	1.90	1.60	1.00	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	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	994.70	2160.00
Train 3								
Planned unavailable hours	11.30	2.48	18.20	11.30	3.50	1.40	0	1.40
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	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	994.70	2160.00
Indicator value	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%

Licensee Comments:

1Q/02: During an internal company audit, a minor discrepancy was found in the hours Train 3 was required during the 3rd quarter of 2000. Data was corrected with no change in color.

Safety System Unavailability, Residual Heat Removal System



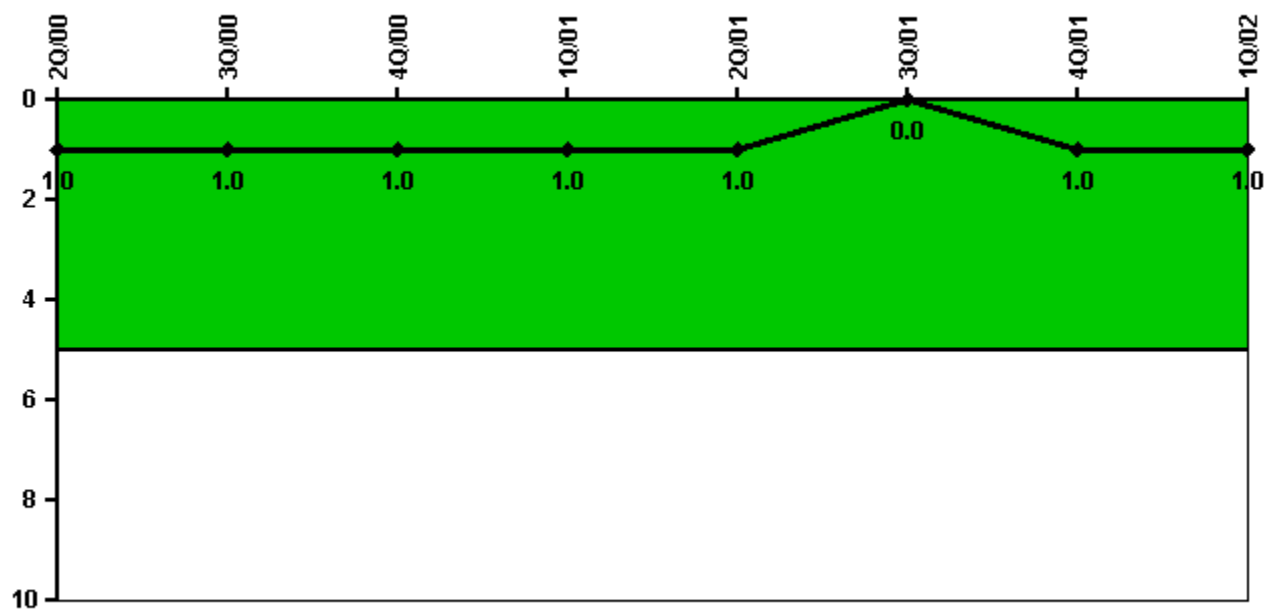
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	0.40	0.58	0	1.10	0.20	11.50	0.20	4.90
Unplanned unavailable hours	1.50	0	0	2.10	0	0	0	0.40
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	1771.80	2160.00
Train 2								
Planned unavailable hours	0.40	13.15	0	0.10	0.10	0.50	0.20	0.60
Unplanned unavailable hours	0	0	0	2.10	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	1015.00	0	0	0	0	0	0
Required hours	1699.00	2208.00	2209.00	2160.00	2183.00	2208.00	1771.80	2160.00
Train 3								
Planned unavailable hours	10.40	0	0	0	0	0	9.40	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	2076.00	2208.00	2209.00	2160.00	2183.00	2208.00	1963.30	2160.00
Train 4								
Planned unavailable hours	10.50	0	0	0	0	0	9.40	0
Unplanned unavailable hours	6.80	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	2076.00	2208.00	2209.00	2160.00	2183.00	2208.00	1963.30	2160.00
Indicator value	1.2%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



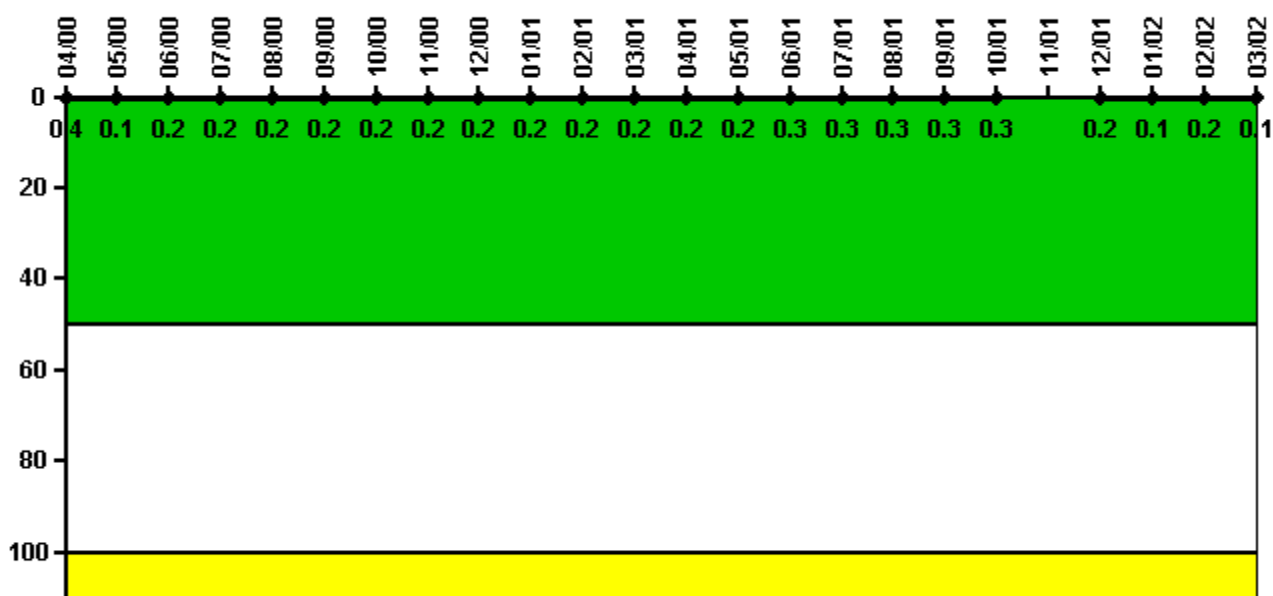
Thresholds: White > 5.0

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	1	1	1	1	1	0	1	1

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

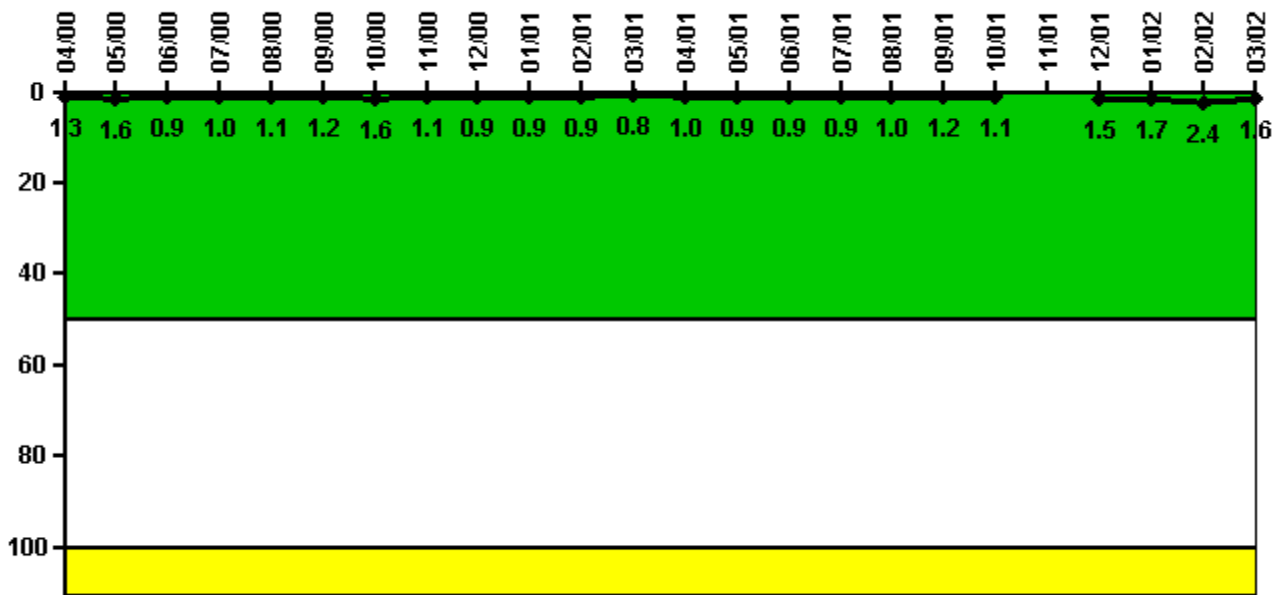
Notes

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	0.003910	0.001360	0.001720	0.001550	0.001770	0.002050	0.002060	0.002060	0.002000	0.002240	0.002240	0.002270
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Reactor Coolant System Activity	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum activity	0.002450	0.002450	0.002500	0.002630	0.002840	0.003020	0.002670	N/A	0.001550	0.001060	0.001650	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	0.2	0.2	0.3	0.3	0.3	0.3	0.3	N/A	0.2	0.1	0.2	0.1

Licensee Comments: none

Reactor Coolant System Leakage



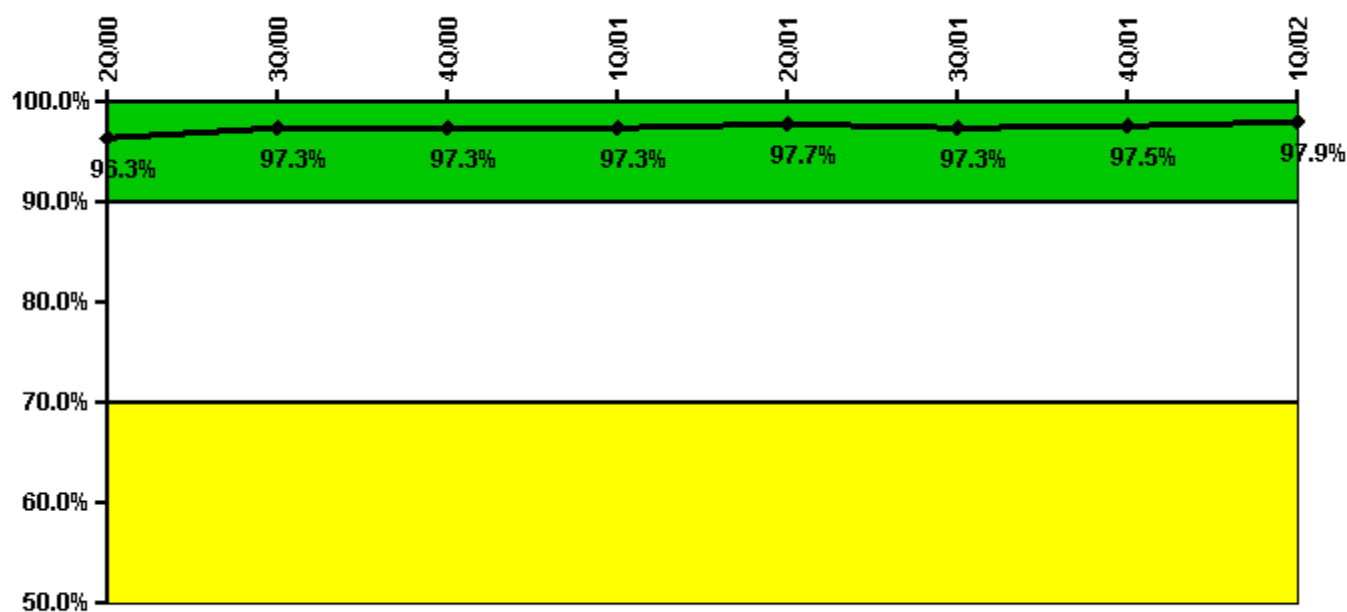
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.130	0.160	0.090	0.100	0.110	0.120	0.160	0.110	0.090	0.090	0.090	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.6	0.9	1.0	1.1	1.2	1.6	1.1	0.9	0.9	0.9	0.8

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	0.100	0.090	0.090	0.090	0.100	0.120	0.110	N/A	0.150	0.170	0.240	0.160
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	0.9	0.9	0.9	1.0	1.2	1.1	N/A	1.5	1.7	2.4	1.6

Licensee Comments: none

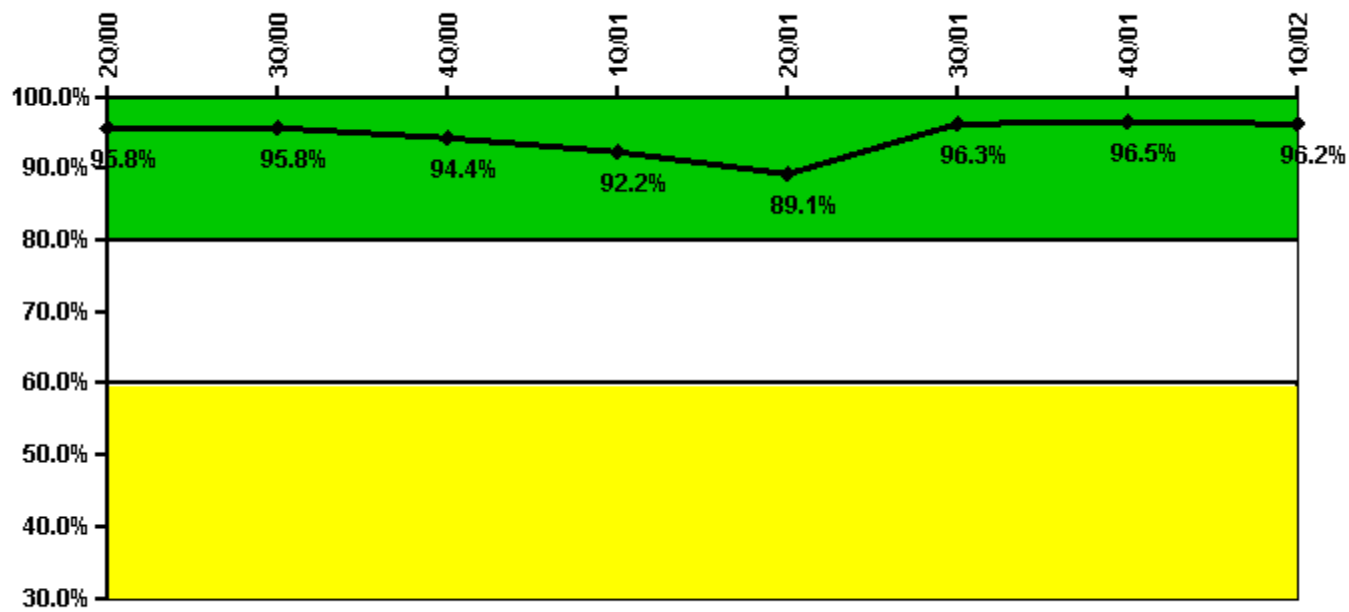
Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful opportunities	7.0	72.0	0	0	49.0	39.0	27.0	40.0
Total opportunities	7.0	72.0	0	0	51.0	41.0	28.0	40.0
Indicator value	96.3%	97.3%	97.3%	97.3%	97.7%	97.3%	97.5%	97.9%

Licensee Comments: none

ERO Drill Participation

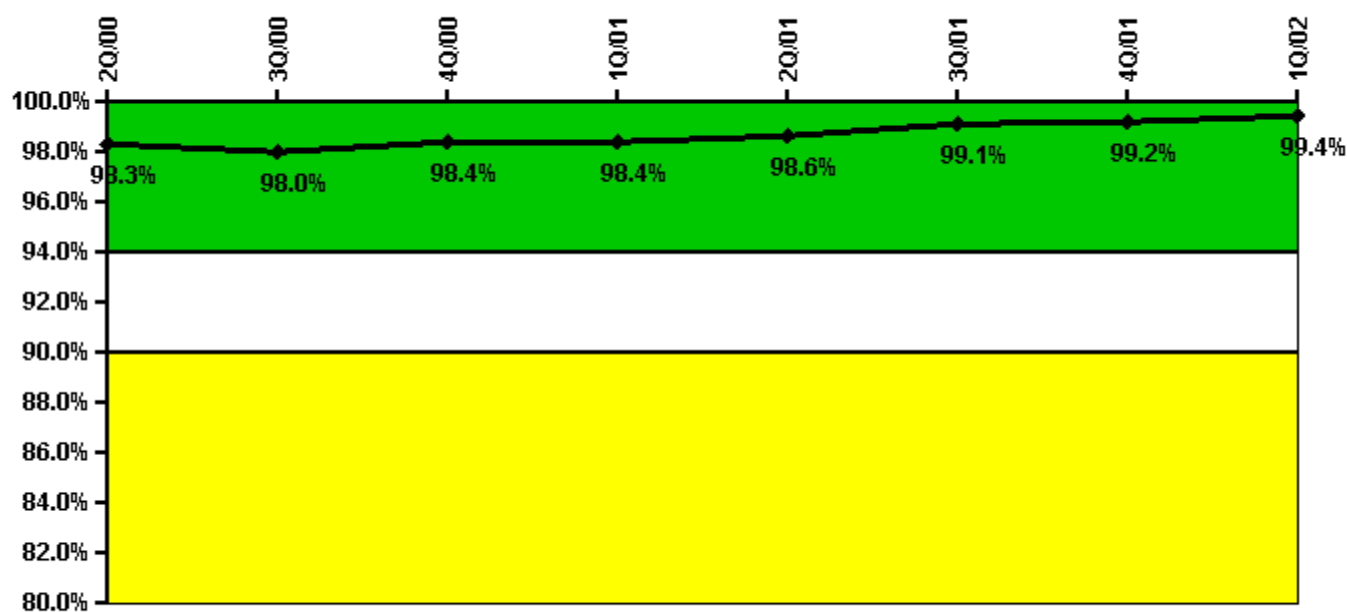
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Participating Key personnel	158.0	161.0	136.0	119.0	123.0	129.0	137.0	126.0
Total Key personnel	165.0	168.0	144.0	129.0	138.0	134.0	142.0	131.0
Indicator value	95.8%	95.8%	94.4%	92.2%	89.1%	96.3%	96.5%	96.2%

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	441	437	444	442	507	447	508	518
Total sirens-tests	448	448	448	448	512	448	512	520
Indicator value	98.3%	98.0%	98.4%	98.4%	98.6%	99.1%	99.2%	99.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness

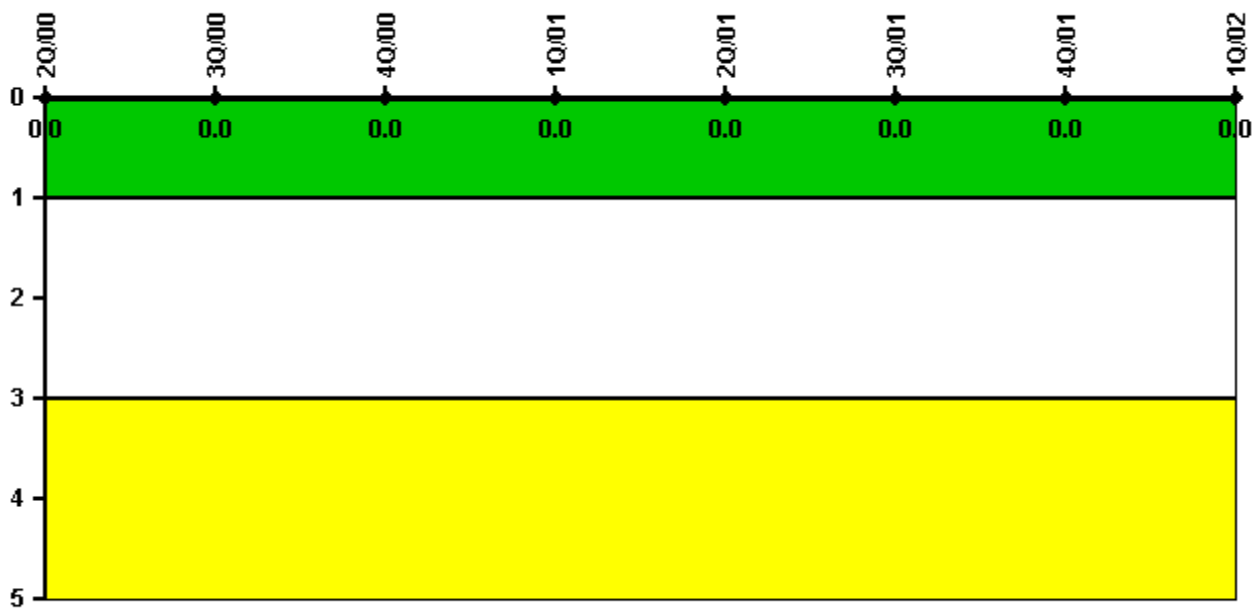


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

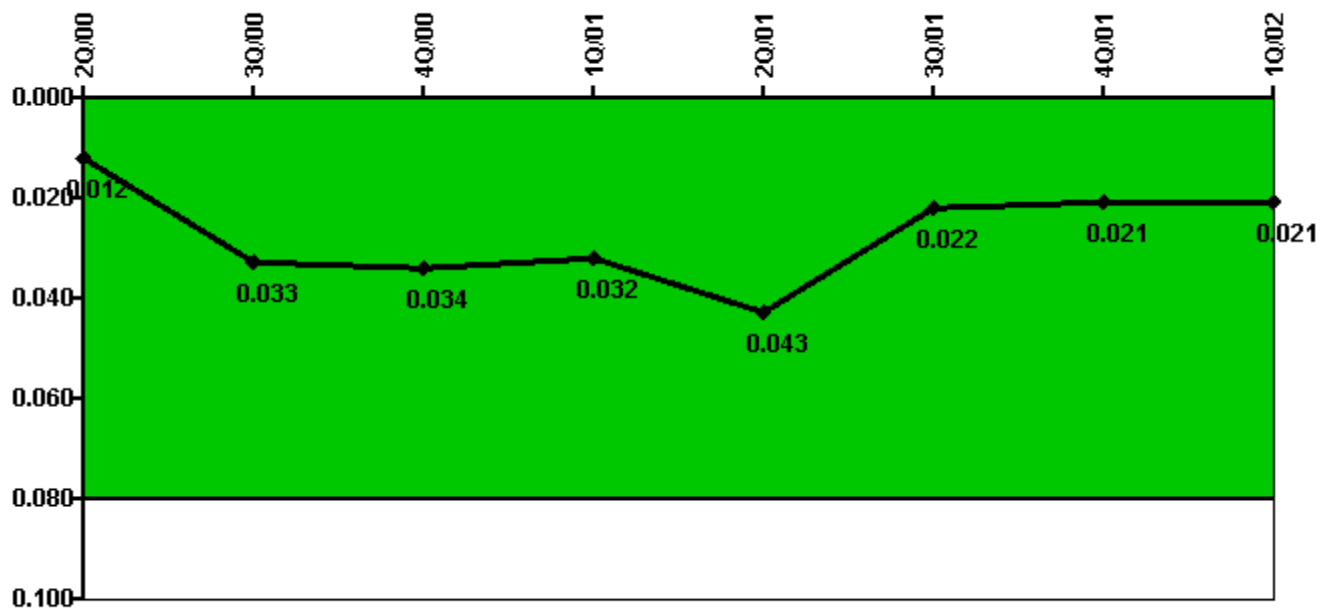
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

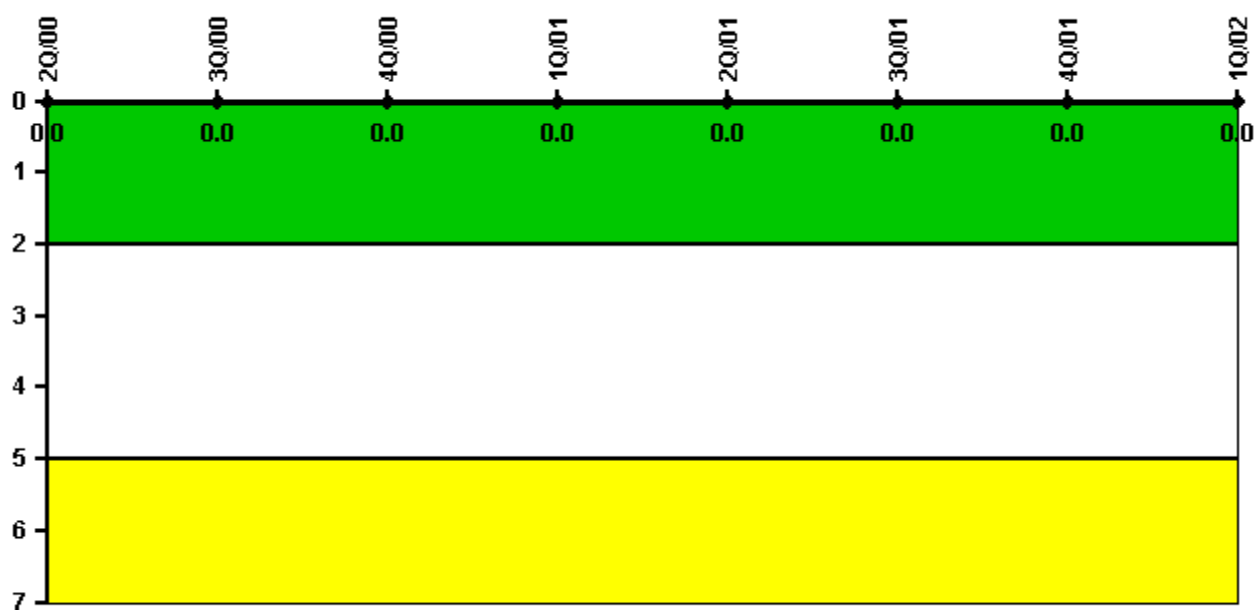
Notes

Protected Area Security Performance Index	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
IDS compensatory hours	59.41	515.21	16.10	0	256.52	125.73	0	0
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.012	0.033	0.034	0.032	0.043	0.022	0.021	0.021

Licensee Comments:

1Q/02: The Protected Area perimeter threat assessment function at Surry is primarily provided by armed response personnel in towers. This performance data reflects one CCTV camera which covers the part of the perimeter not covered by a tower. Also, during an internal company audit, minor discrepancies were found in data submitted for several quarters in 2000 and 2001. Data was corrected with no change in color.

Personnel Screening Program

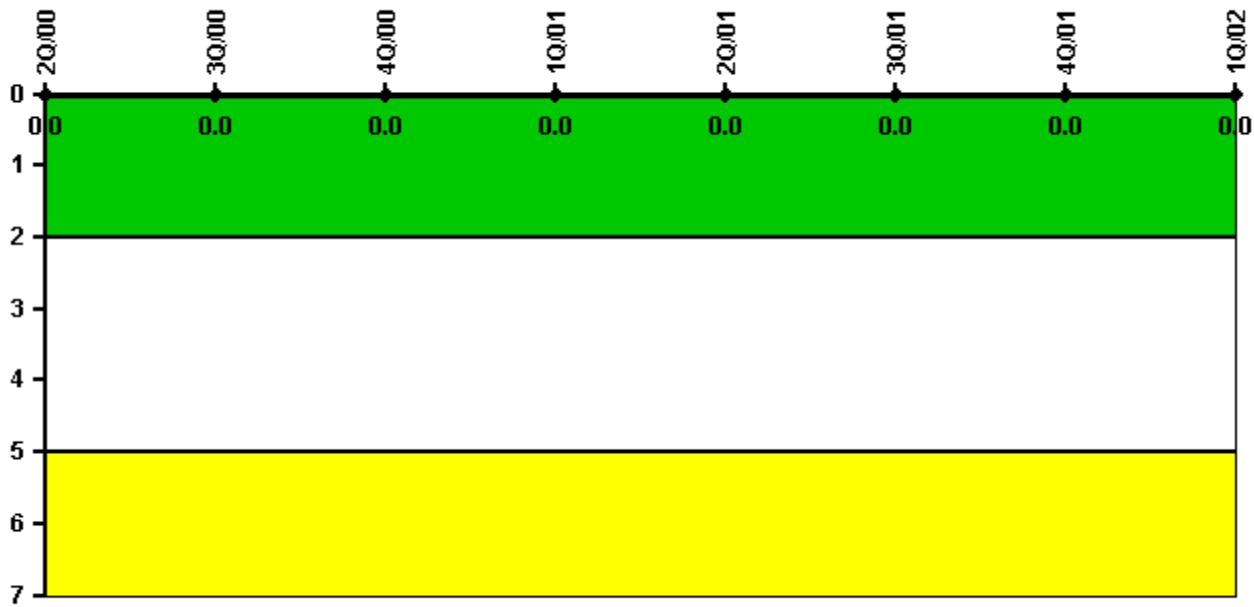


Thresholds: White > 2.0 Yellow > 5.0

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](#)

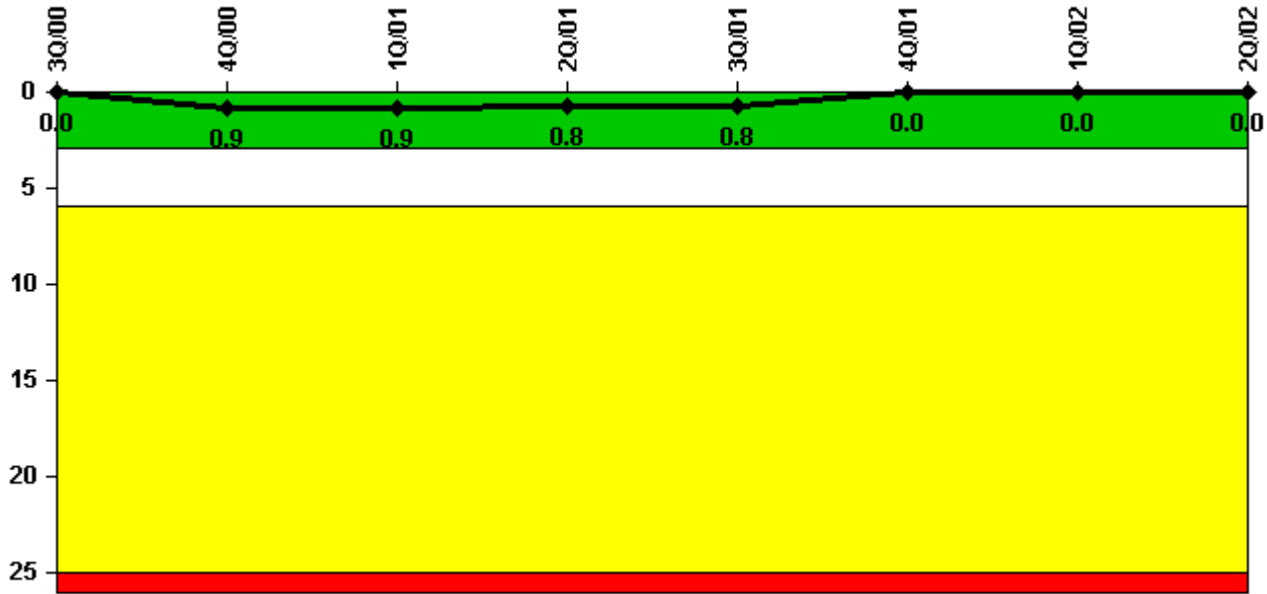
Last Modified: May 1, 2002

Surry 1

2Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



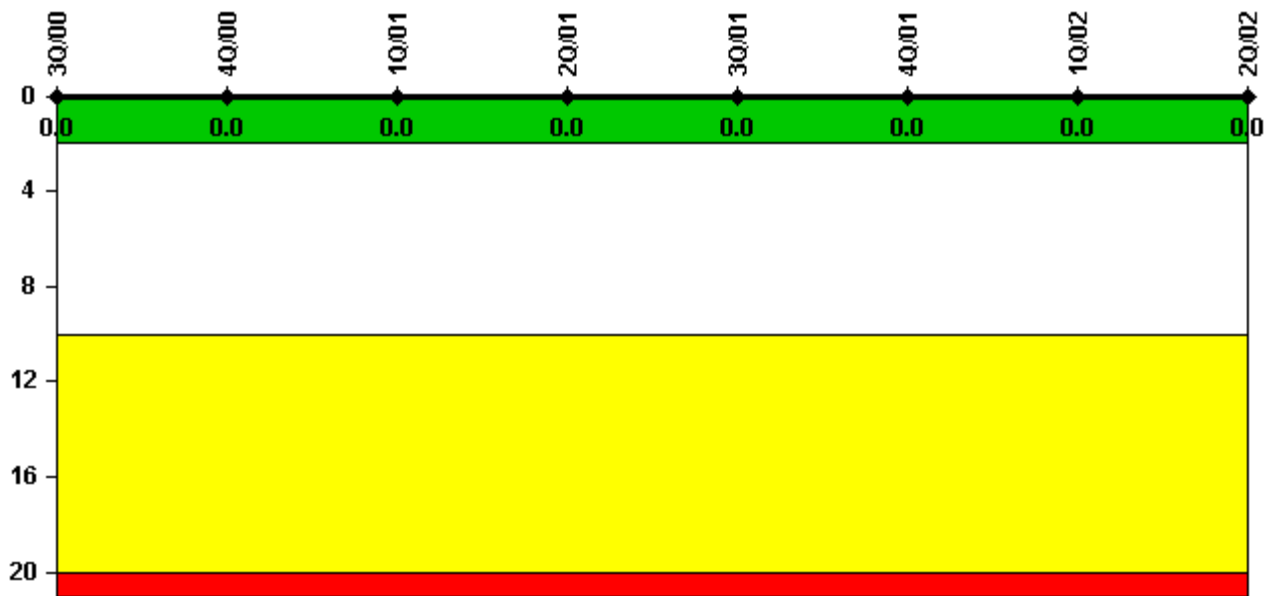
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2208.0	2189.6	2160.0	2145.9	2208.0	943.6	2160.0	2183.0
Indicator value	0	0.9	0.9	0.8	0.8	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



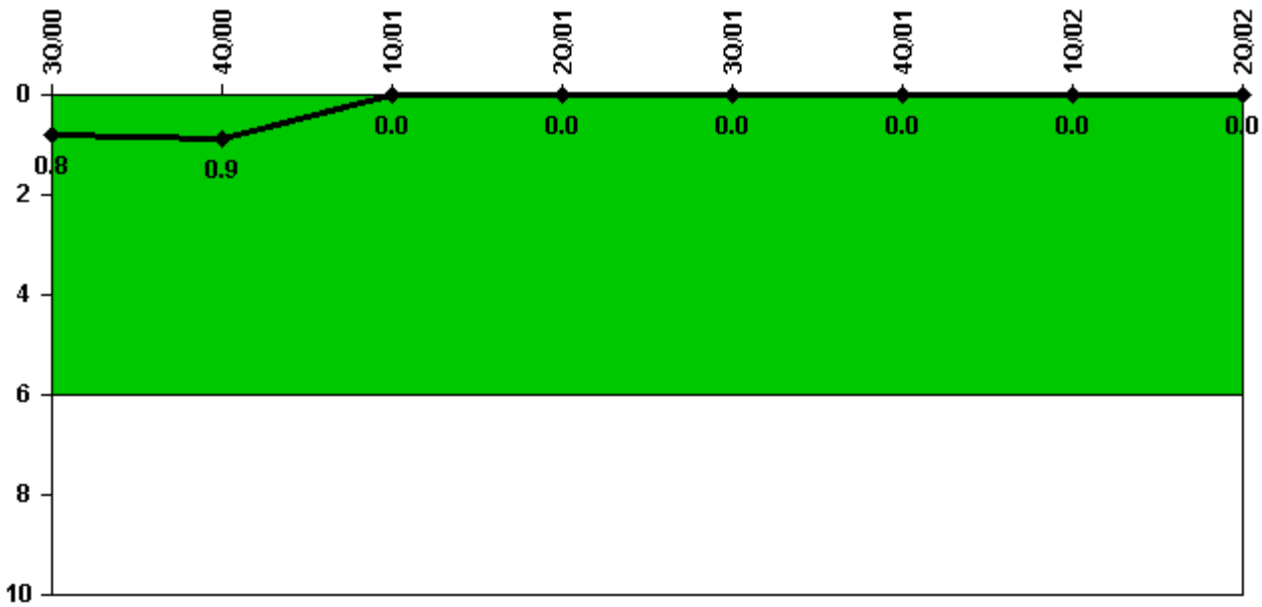
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



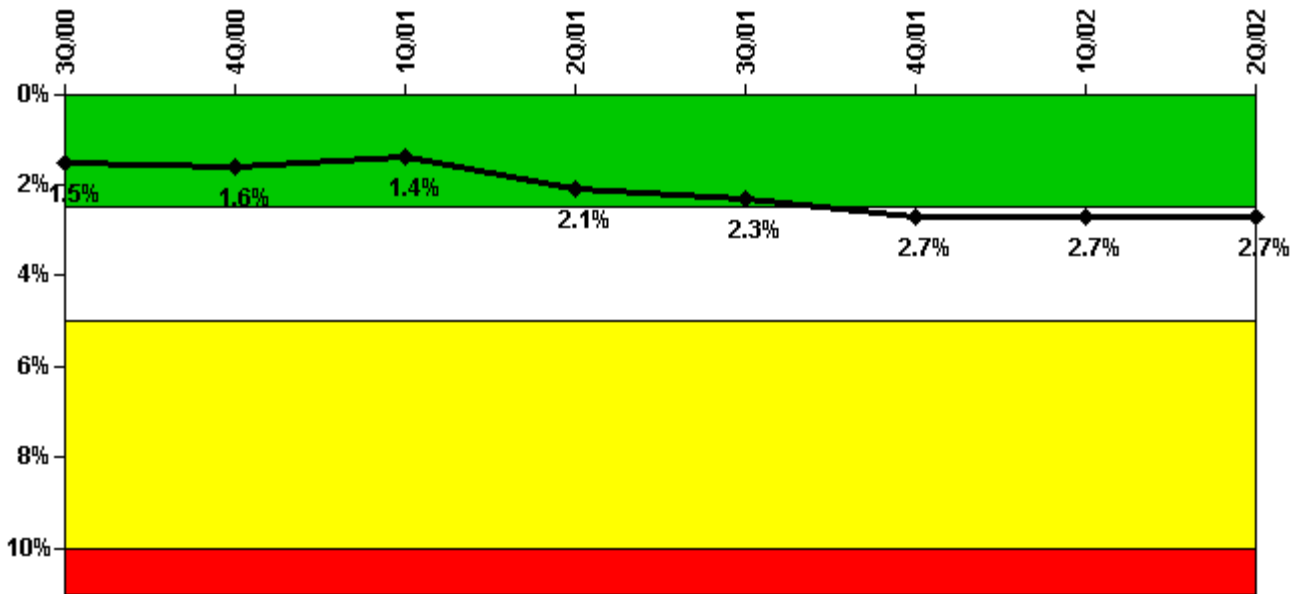
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2189.6	2160.0	2145.9	2208.0	943.6	2160.0	2183.0
Indicator value	0.8	0.9	0	0	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

Notes

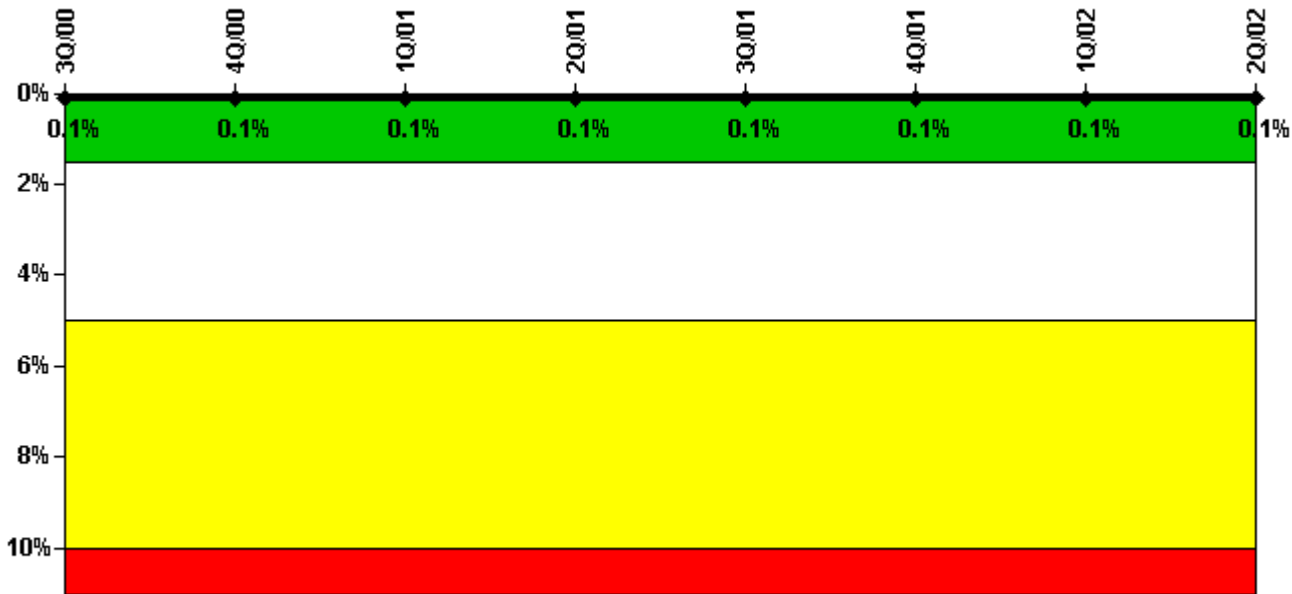
Safety System Unavailability, Emergency AC Power	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	17.39	11.50	14.05	13.67	101.25	5.23	35.93	11.35
Unplanned unavailable hours	83.68	0	0	0	21.38	0.15	3.45	5.15
Fault exposure hours	0	0	0	0	0	237.77	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	994.68	2160.00	2183.00
Train 2								
Planned unavailable hours	33.78	19.74	26.29	23.94	30.86	11.10	21.07	47.55
Unplanned unavailable hours	0	10.30	0	131.35	3.53	8.03	7.37	0
Fault exposure hours	0	0	0	192.03	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	994.68	2160.00	2183.00
Indicator value	1.5%	1.6%	1.4%	2.1%	2.3%	2.7%	2.7%	2.7%

Licensee Comments:

2Q/02: Response to an FAQ resulted in not allowing contingency actions to be used in monthly performed procedures. Therefore, hours were reinstated for these actions from May 2001 through June 2002. The additional hours resulted in this indicator changing to white in color.

2Q/02: During an audit, a minor discrepancy was found in data submitted for March 2002. Data was corrected with no change in color.

Safety System Unavailability, High Pressure Injection System (HPSI)



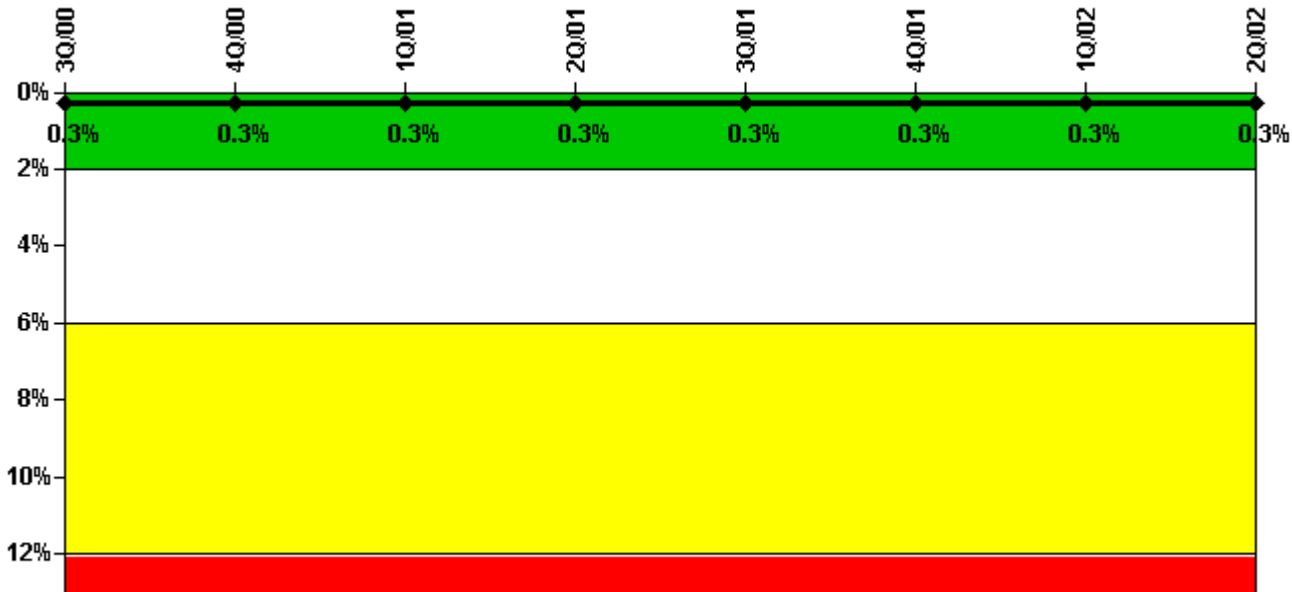
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	0	0	3.60	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	994.70	2160.00	2183.00
Train 2								
Planned unavailable hours	0	1.00	0.70	0.50	2.50	0.70	1.10	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	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	994.70	2160.00	2183.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



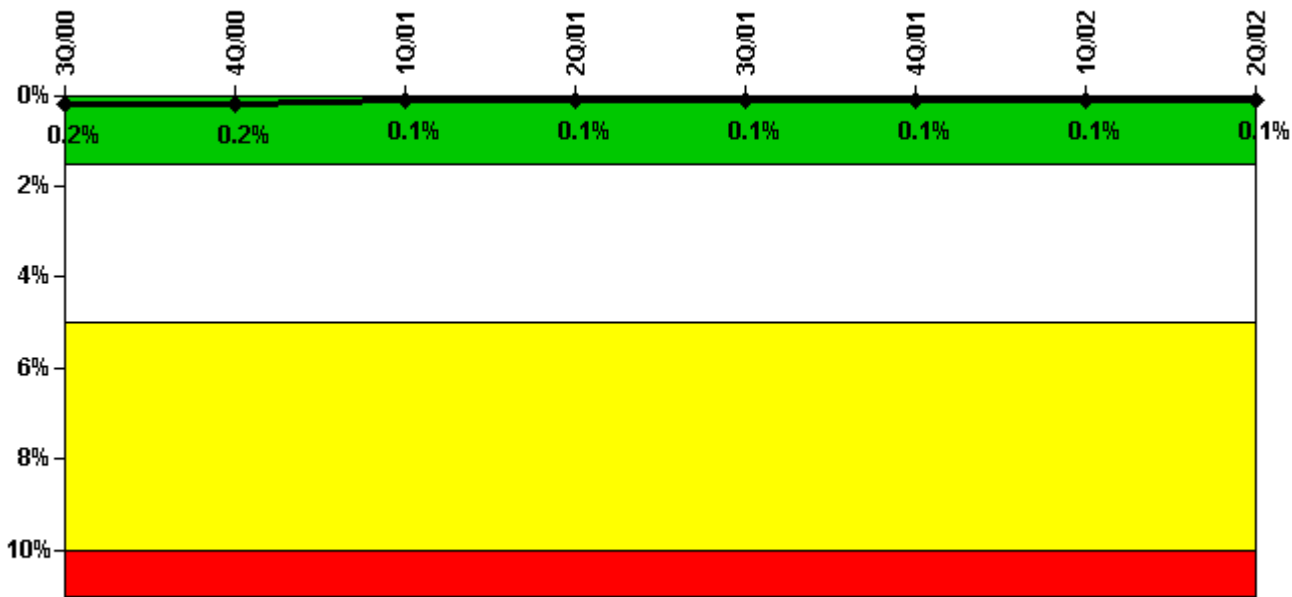
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	3.19	15.57	12.40	1.80	12.20	0.20	10.80	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	2208.00	2209.00	2160.00	2183.00	2208.00	994.70	2160.00	2183.00
Train 2								
Planned unavailable hours	0.92	2.23	0	1.90	1.60	1.00	0.90	8.30
Unplanned unavailable hours	0	0	0	0	0	0	0	0
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	994.70	2160.00	2183.00
Train 3								
Planned unavailable hours	2.48	18.20	11.30	3.50	1.40	0	1.40	16.10
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	2160.00	2183.00	2208.00	994.70	2160.00	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, Residual Heat Removal System



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

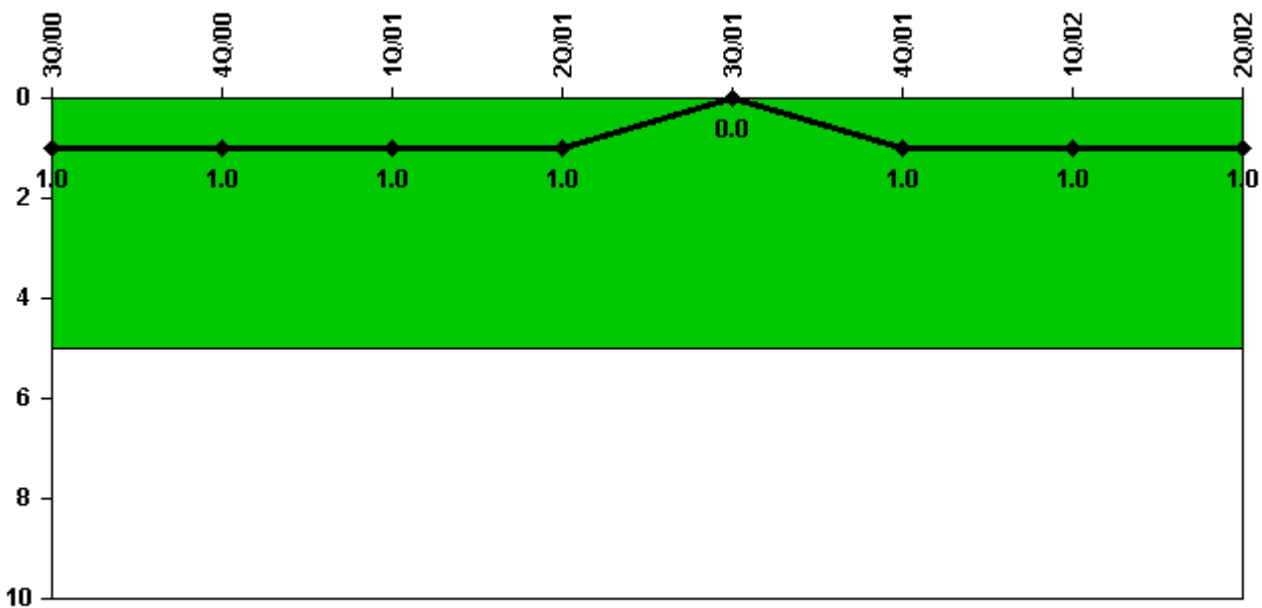
Notes

Safety System Unavailability, Residual Heat Removal System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	0.58	0	1.10	0.20	11.50	0.20	4.90	1.44
Unplanned unavailable hours	0	0	2.10	0	0	0	0.40	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	1771.80	2160.00	2183.00
Train 2								
Planned unavailable hours	13.15	0	0.10	0.10	0.50	0.20	0.60	1.12
Unplanned unavailable hours	0	0	2.10	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	1015.00	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	1771.80	2160.00	2183.00
Train 3								
Planned unavailable hours	0	0	0	0	0	9.40	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	1963.30	2160.00	2183.00
Train 4								
Planned unavailable hours	0	0	0	0	0	9.40	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	1963.30	2160.00	2183.00
Indicator value	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



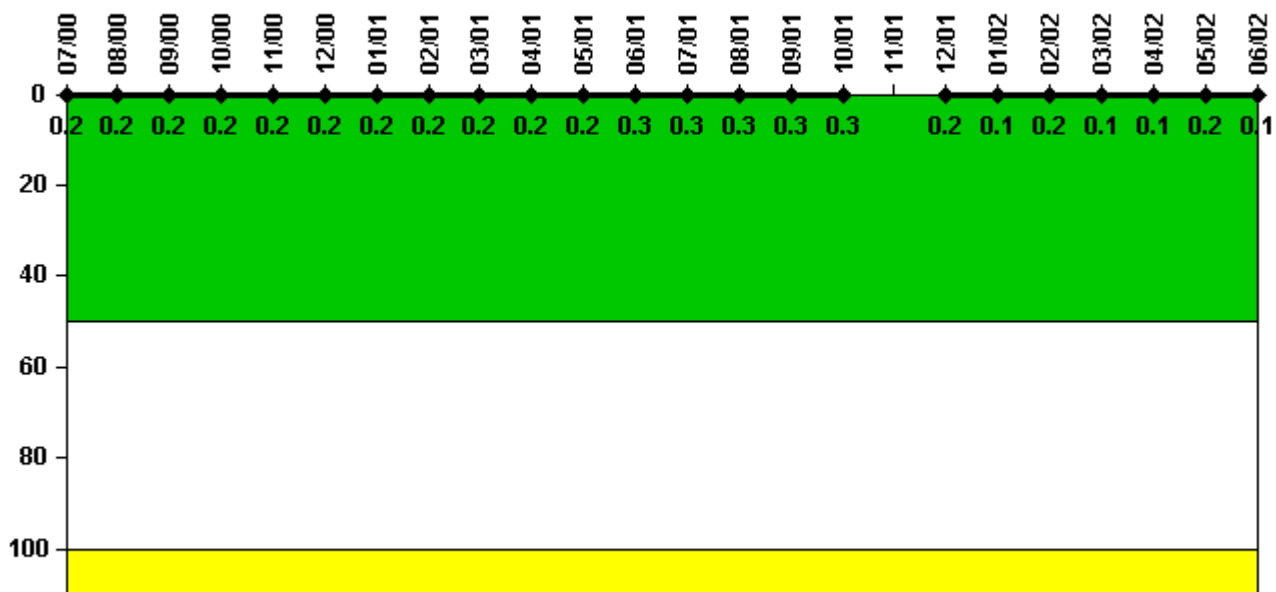
Thresholds: White > 5.0

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

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

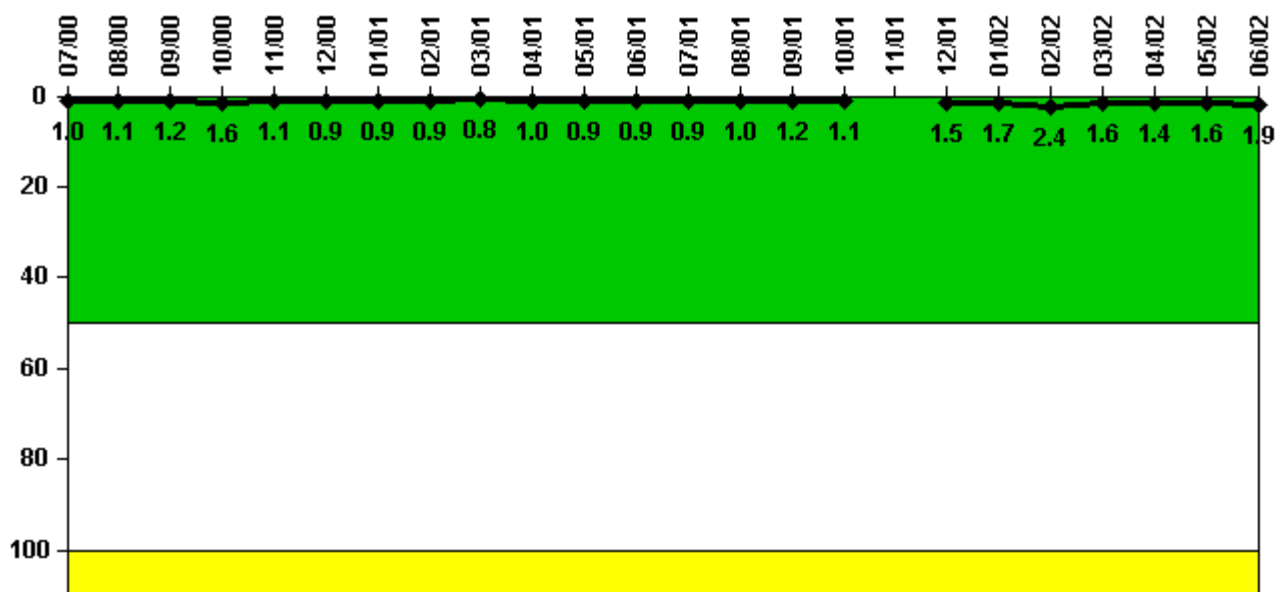
Notes

Reactor Coolant System Activity	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.001550	0.001770	0.002050	0.002060	0.002060	0.002000	0.002240	0.002240	0.002270	0.002450	0.002450	0.002500
Technical specification limit	1.0	1.0	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	0.3

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	0.002630	0.002840	0.003020	0.002670	N/A	0.001550	0.001060	0.001650	0.001200	0.001200	0.001500	0.001410
Technical specification limit	1.0	1.0	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	N/A	0.2	0.1	0.2	0.1	0.1	0.2	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

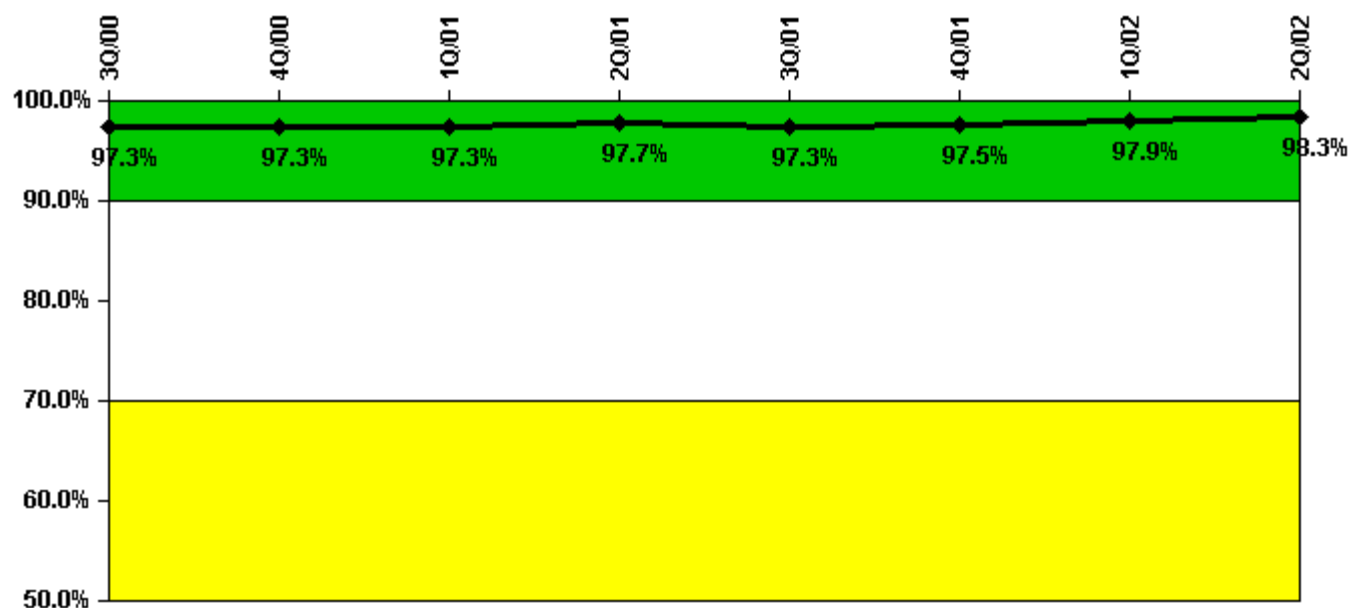
Notes

Reactor Coolant System Leakage	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	0.100	0.110	0.120	0.160	0.110	0.090	0.090	0.090	0.080	0.100	0.090	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.1	1.2	1.6	1.1	0.9	0.9	0.9	0.8	1.0	0.9	0.9

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	0.090	0.100	0.120	0.110	N/A	0.150	0.170	0.240	0.160	0.140	0.160	0.190
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.9	1.0	1.2	1.1	N/A	1.5	1.7	2.4	1.6	1.4	1.6	1.9

Licensee Comments: none

Drill/Exercise Performance



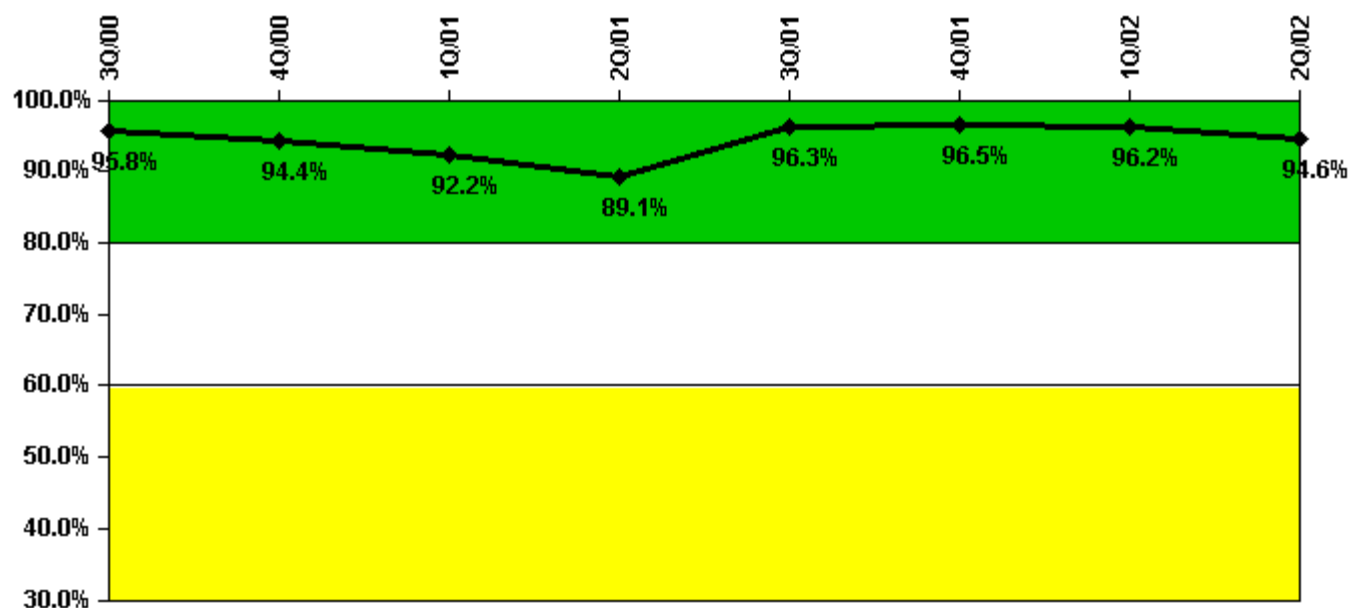
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful opportunities	72.0	0	0	49.0	39.0	27.0	40.0	55.0
Total opportunities	72.0	0	0	51.0	41.0	28.0	40.0	55.0
Indicator value	97.3%	97.3%	97.3%	97.7%	97.3%	97.5%	97.9%	98.3%

Licensee Comments: none

ERO Drill Participation



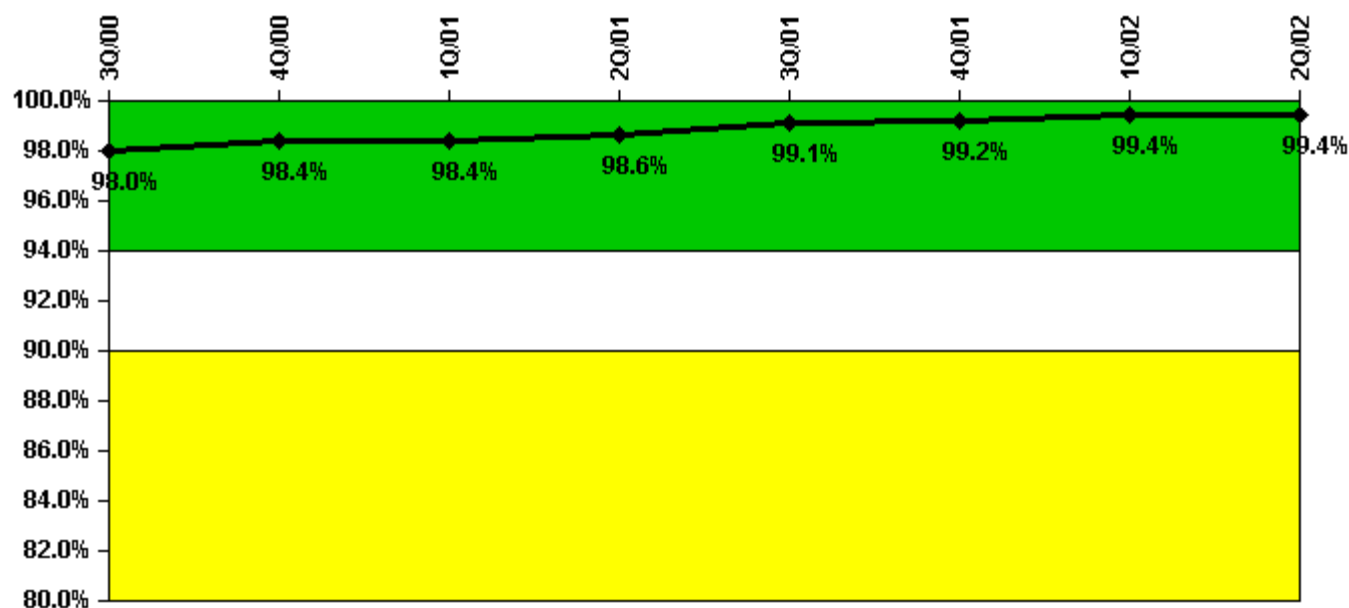
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Participating Key personnel	161.0	136.0	119.0	123.0	129.0	137.0	126.0	141.0
Total Key personnel	168.0	144.0	129.0	138.0	134.0	142.0	131.0	149.0
Indicator value	95.8%	94.4%	92.2%	89.1%	96.3%	96.5%	96.2%	94.6%

Licensee Comments: none

Alert & Notification System



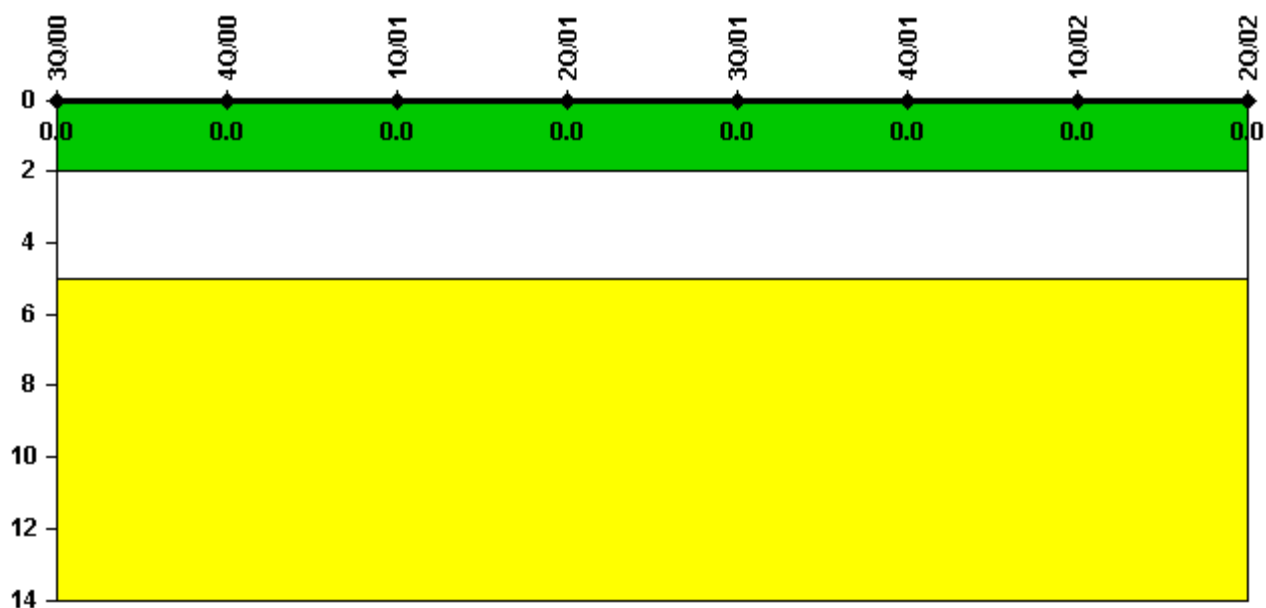
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful siren-tests	437	444	442	507	447	508	518	515
Total sirens-tests	448	448	448	512	448	512	520	520
Indicator value	98.0%	98.4%	98.4%	98.6%	99.1%	99.2%	99.4%	99.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness

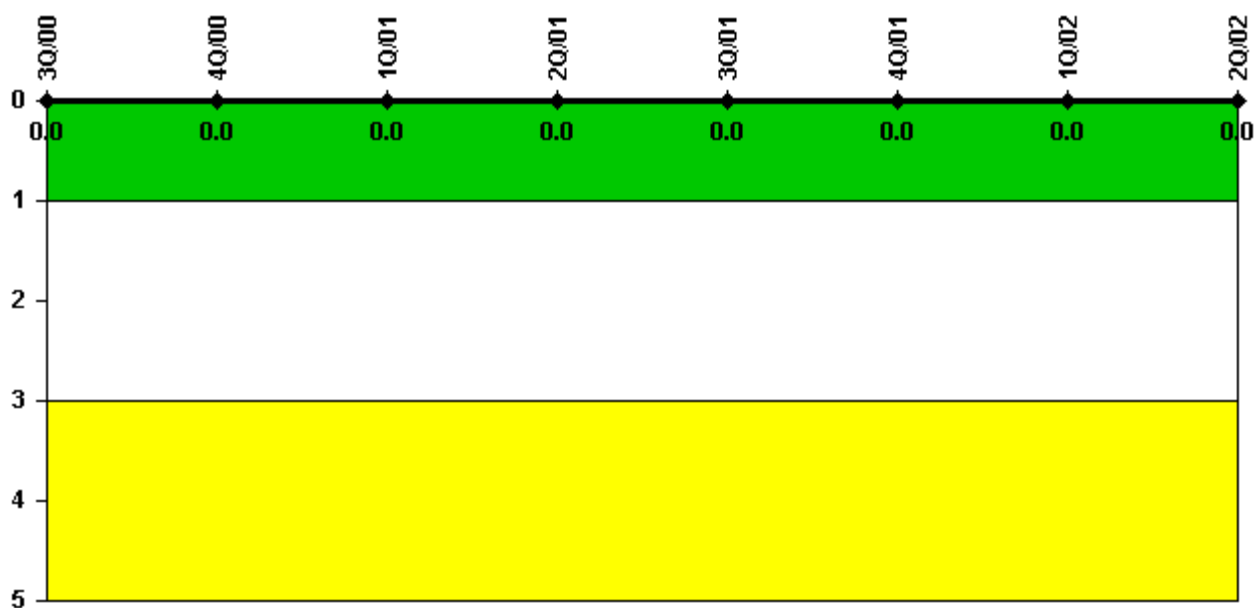


Thresholds: White > 2.0 Yellow > 5.0

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

RETS/ODCM Radiological Effluent

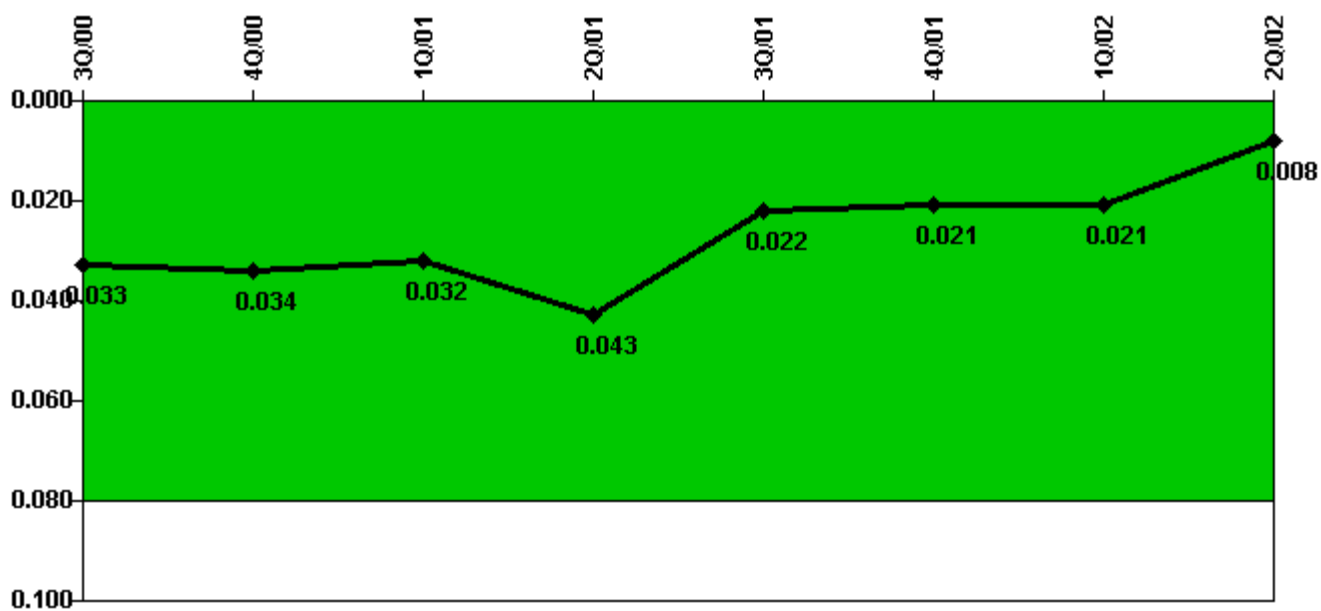
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

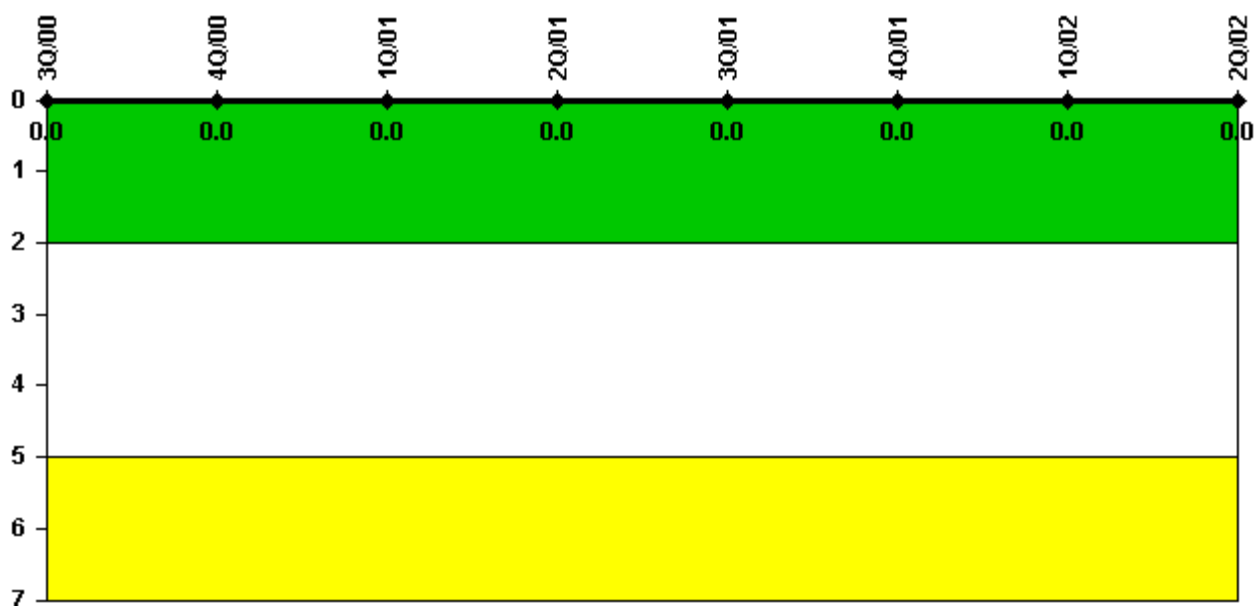
Notes

Protected Area Security Performance Index	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
IDS compensatory hours	515.21	16.10	0	256.52	125.73	0	0	13.26
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.033	0.034	0.032	0.043	0.022	0.021	0.021	0.008

Licensee Comments:

2Q/02: The Protected Area perimeter threat assessment function at Surry is primarily provided by armed response personnel in towers. This performance data reflects one CCTV camera which covers the part of the perimeter not covered by a tower.

Personnel Screening Program



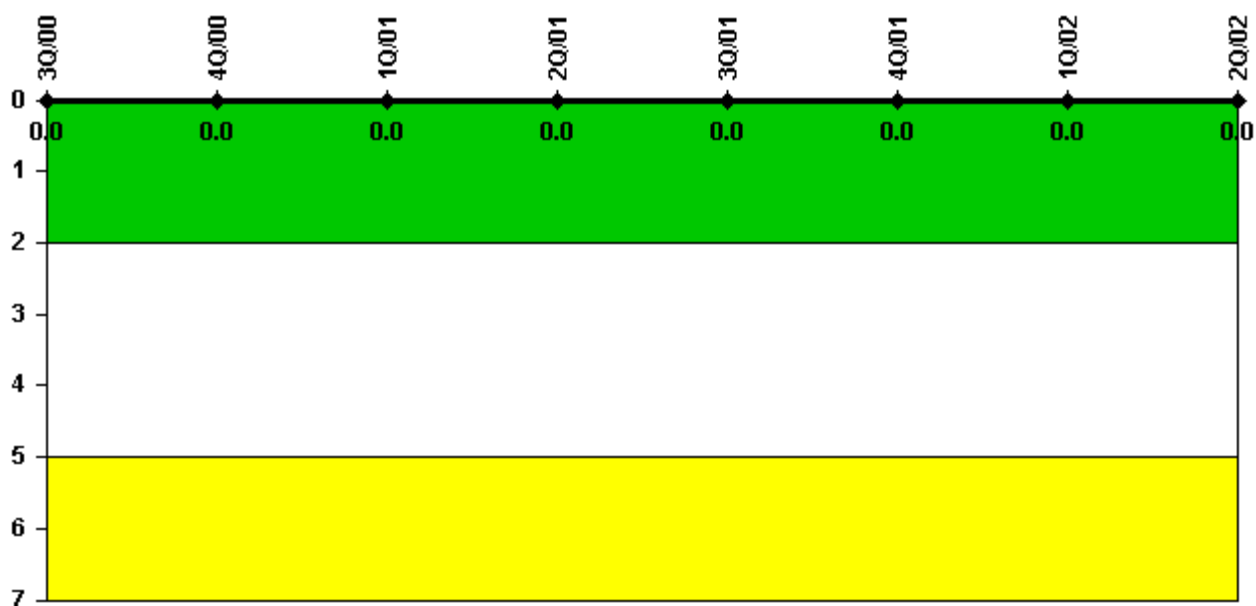
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Program Failures	0	0	0	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](#)

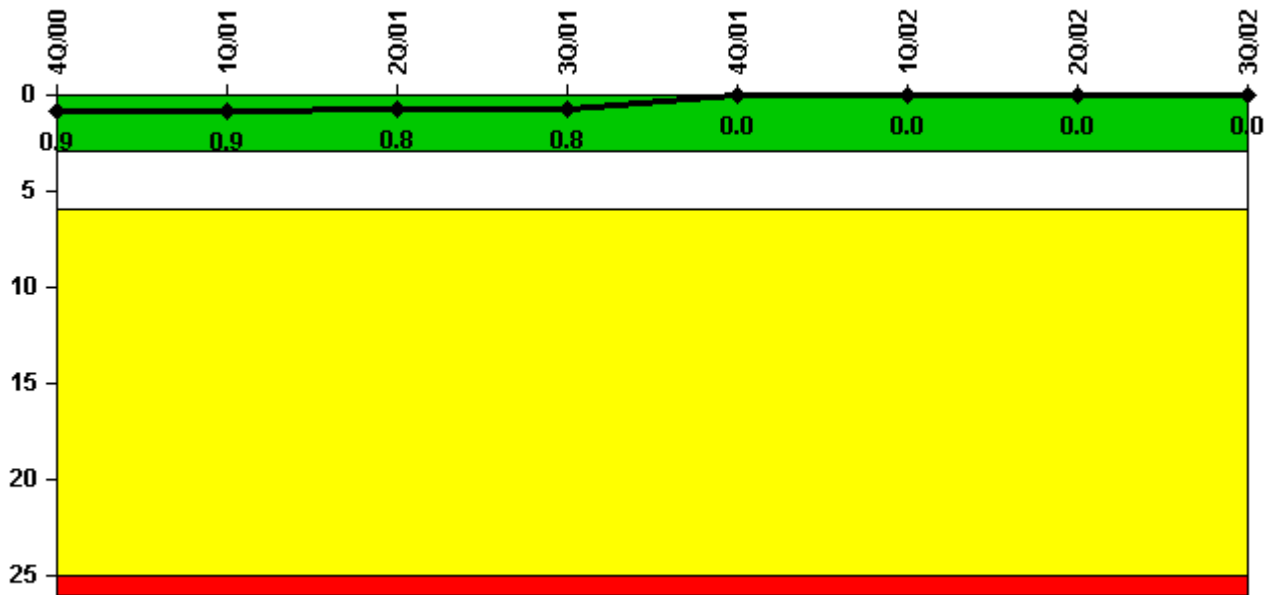
Last Modified: September 18, 2002

Surry 1

3Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



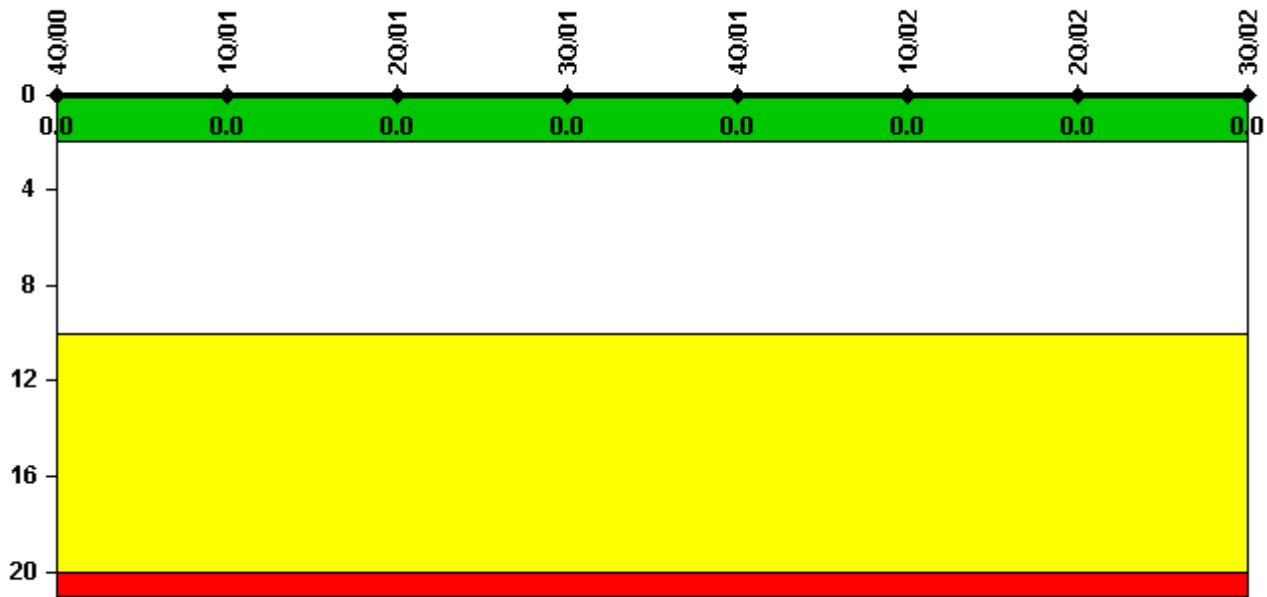
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2189.6	2160.0	2145.9	2208.0	943.6	2160.0	2183.0	2208.0
Indicator value	0.9	0.9	0.8	0.8	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



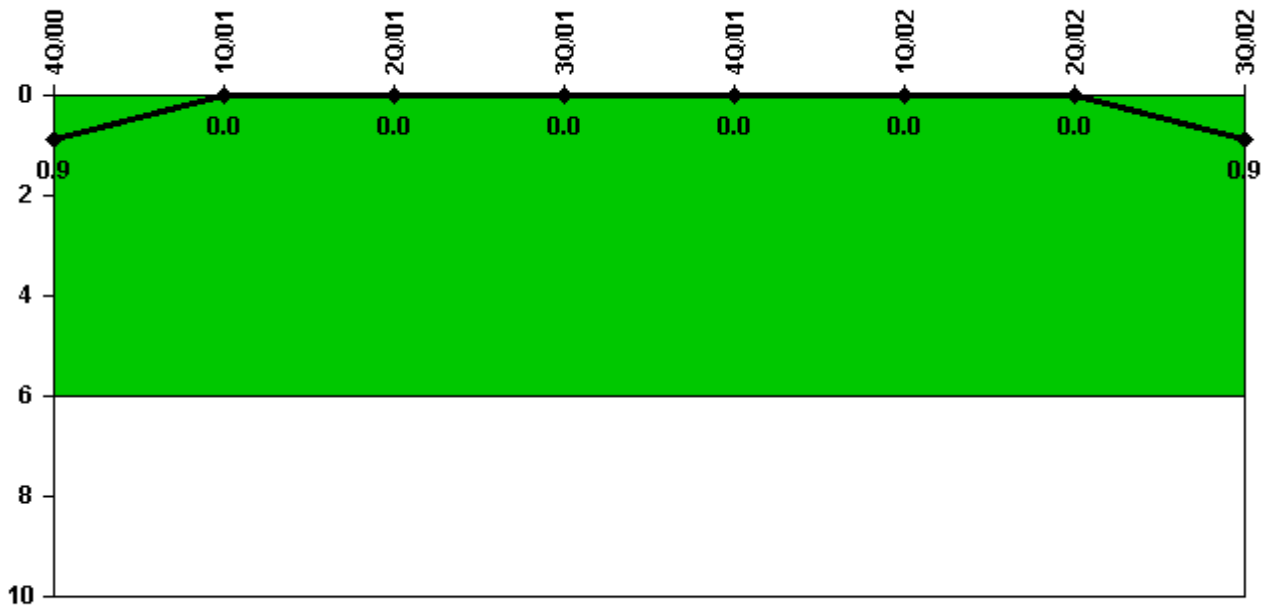
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



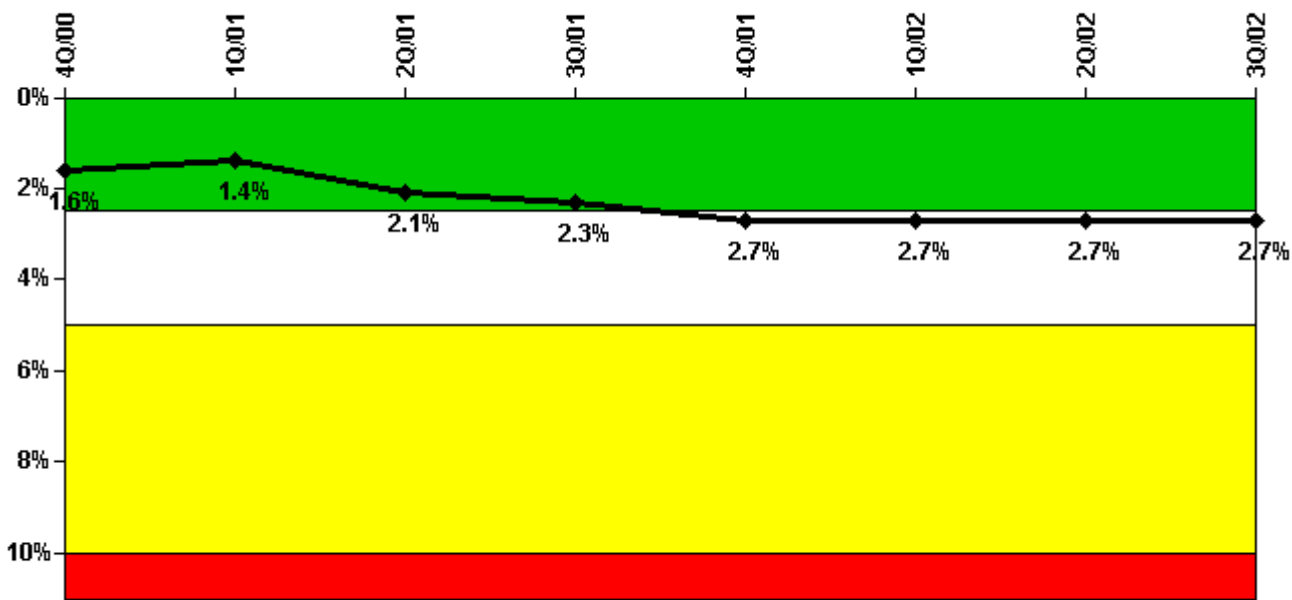
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2189.6	2160.0	2145.9	2208.0	943.6	2160.0	2183.0	2208.0
Indicator value	0.9	0	0	0	0	0	0	0.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

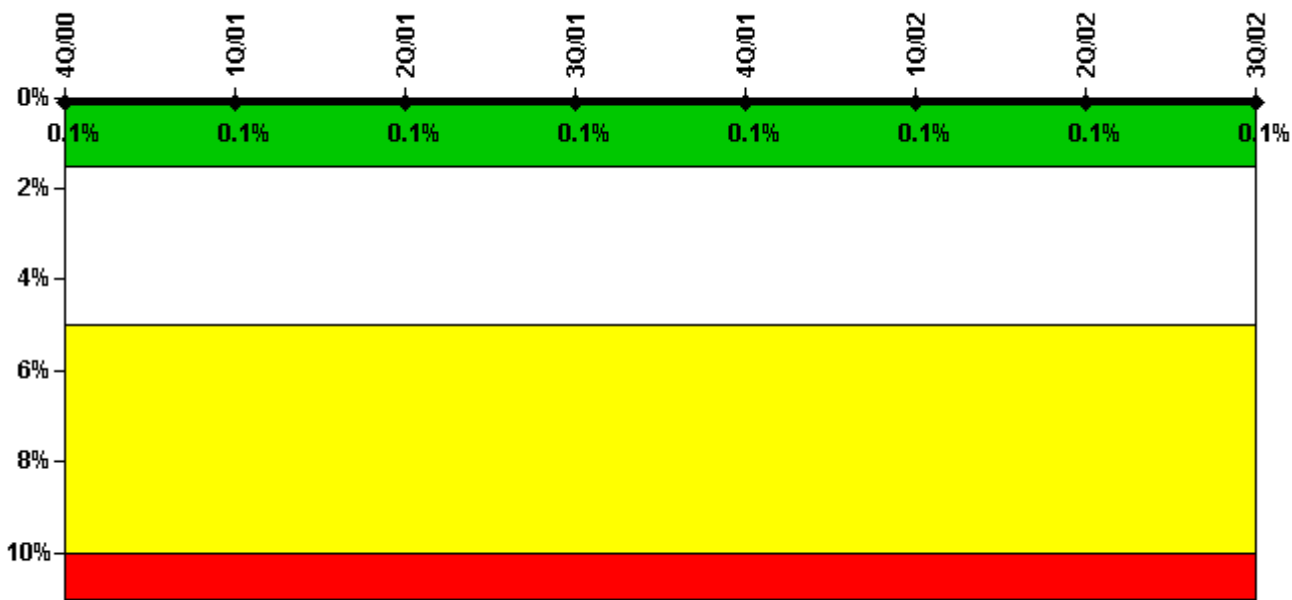
Notes

Safety System Unavailability, Emergency AC Power	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	11.50	14.05	13.67	101.25	5.23	35.93	11.35	15.88
Unplanned unavailable hours	0	0	0	21.38	0.15	3.45	5.15	0
Fault exposure hours	0	0	0	0	237.77	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	994.68	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	19.74	26.29	23.94	30.86	11.10	21.07	47.55	23.20
Unplanned unavailable hours	10.30	0	131.35	3.53	8.03	7.37	0	9.50
Fault exposure hours	0	0	192.03	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	994.68	2160.00	2183.00	2208.00
Indicator value	1.6%	1.4%	2.1%	2.3%	2.7%	2.7%	2.7%	2.7%

Licensee Comments:

2Q/02: Response to an FAQ resulted in not allowing contingency actions to be used in monthly performed procedures. Therefore, hours were reinstated for these actions from May 2001 through June 2002. The additional hours resulted in this indicator changing to white in color.

Safety System Unavailability, High Pressure Injection System (HPSI)



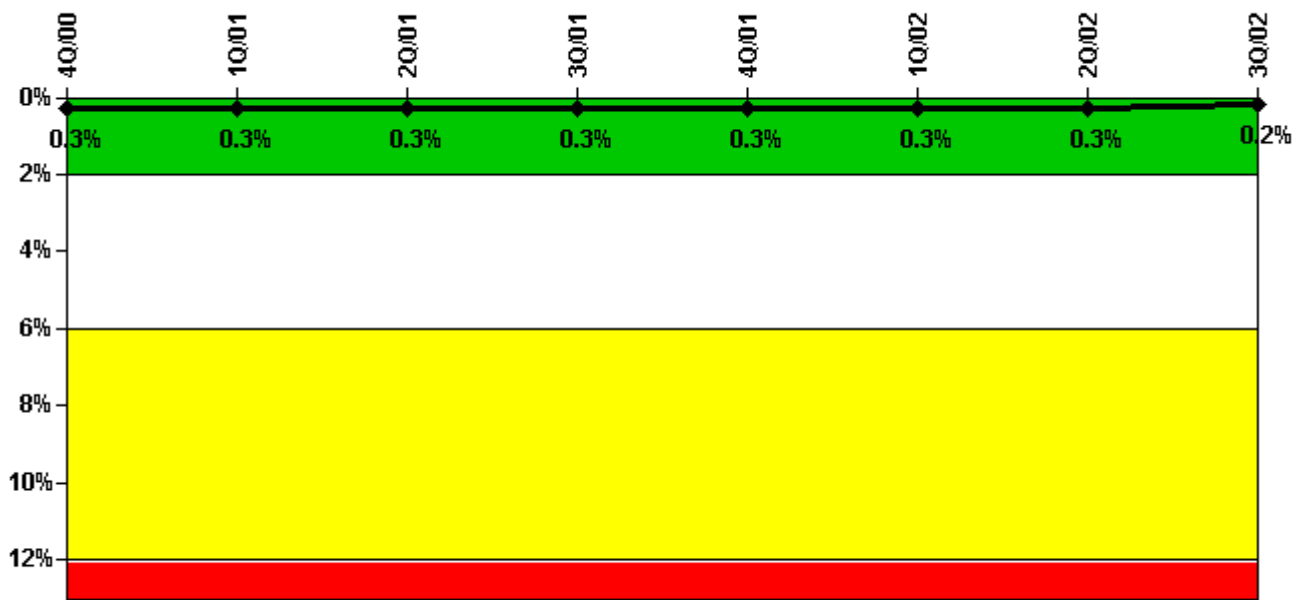
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	0	3.60	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	994.70	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	1.00	0.70	0.50	2.50	0.70	1.10	4.20	3.06
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	994.70	2160.00	2183.00	2208.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



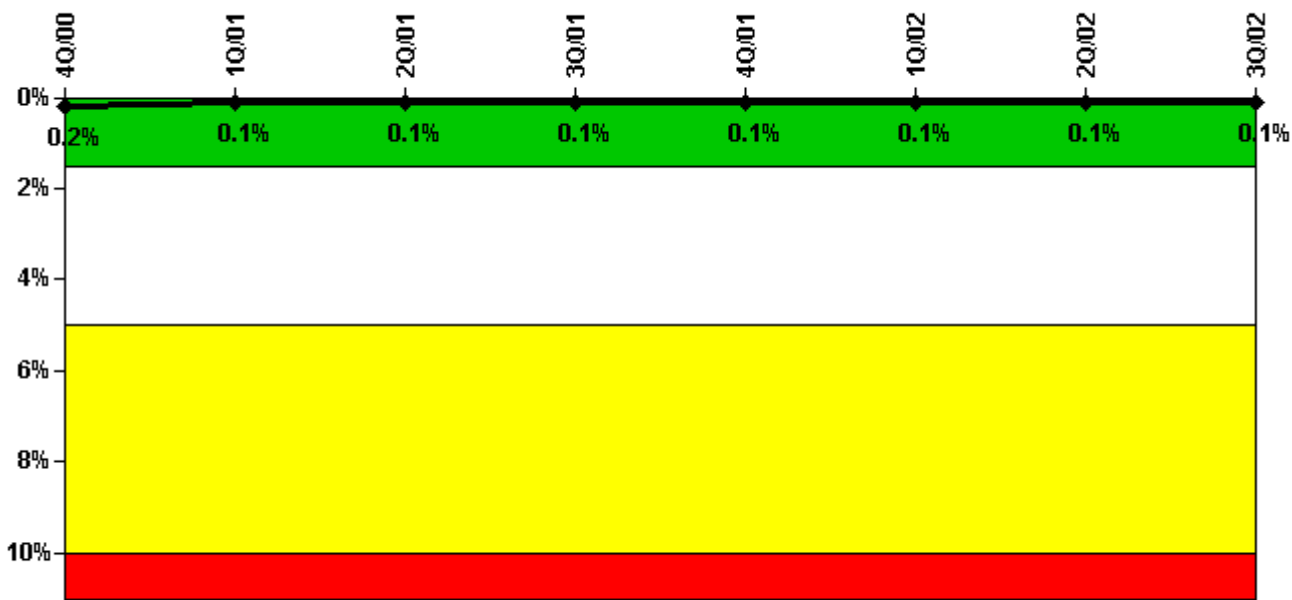
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	15.57	12.40	1.80	12.20	0.20	10.80	0.90	1.80
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	2160.00	2183.00	2208.00	994.70	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	2.23	0	1.90	1.60	1.00	0.90	8.30	1.47
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	994.70	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	18.20	11.30	3.50	1.40	0	1.40	16.10	0.75
Unplanned unavailable hours	0	0	0	0	0	0	0	0
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	994.70	2160.00	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, Residual Heat Removal System



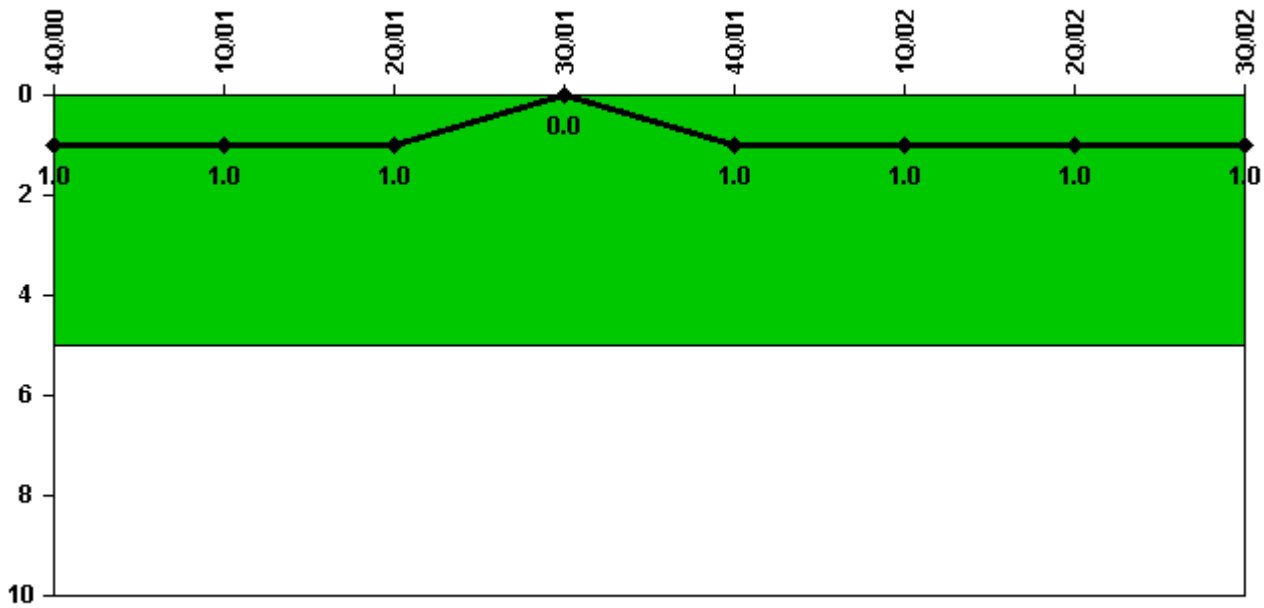
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	0	1.10	0.20	11.50	0.20	4.90	1.44	0.07
Unplanned unavailable hours	0	2.10	0	0	0	0.40	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	1771.80	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	0.10	0.10	0.50	0.20	0.60	1.12	1.30
Unplanned unavailable hours	0	2.10	0	0	0	0	0	0
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	1771.80	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	0	0	0	9.40	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	1963.30	2160.00	2183.00	2208.00
Train 4								
Planned unavailable hours	0	0	0	0	9.40	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	1963.30	2160.00	2183.00	2208.00
Indicator value	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



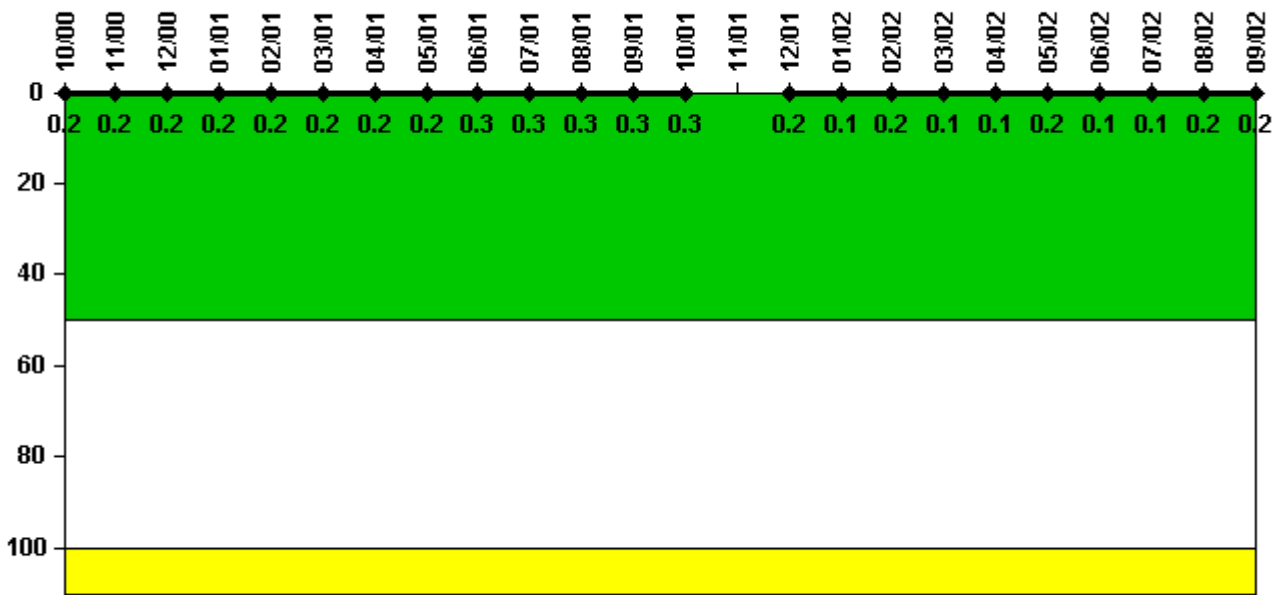
Thresholds: White > 5.0

Notes

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

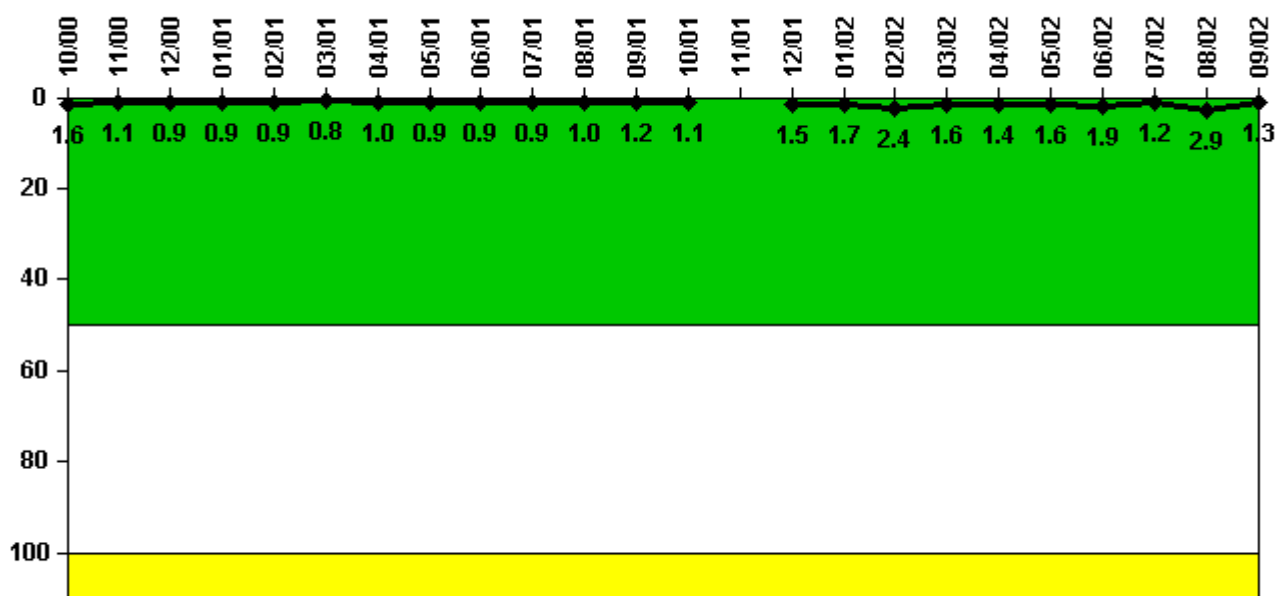
Notes

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	0.002060	0.002060	0.002000	0.002240	0.002240	0.002270	0.002450	0.002450	0.002500	0.002630	0.002840	0.003020
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3

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	0.002670	N/A	0.001550	0.001060	0.001650	0.001200	0.001200	0.001500	0.001410	0.001390	0.002360	0.001630
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.3	N/A	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



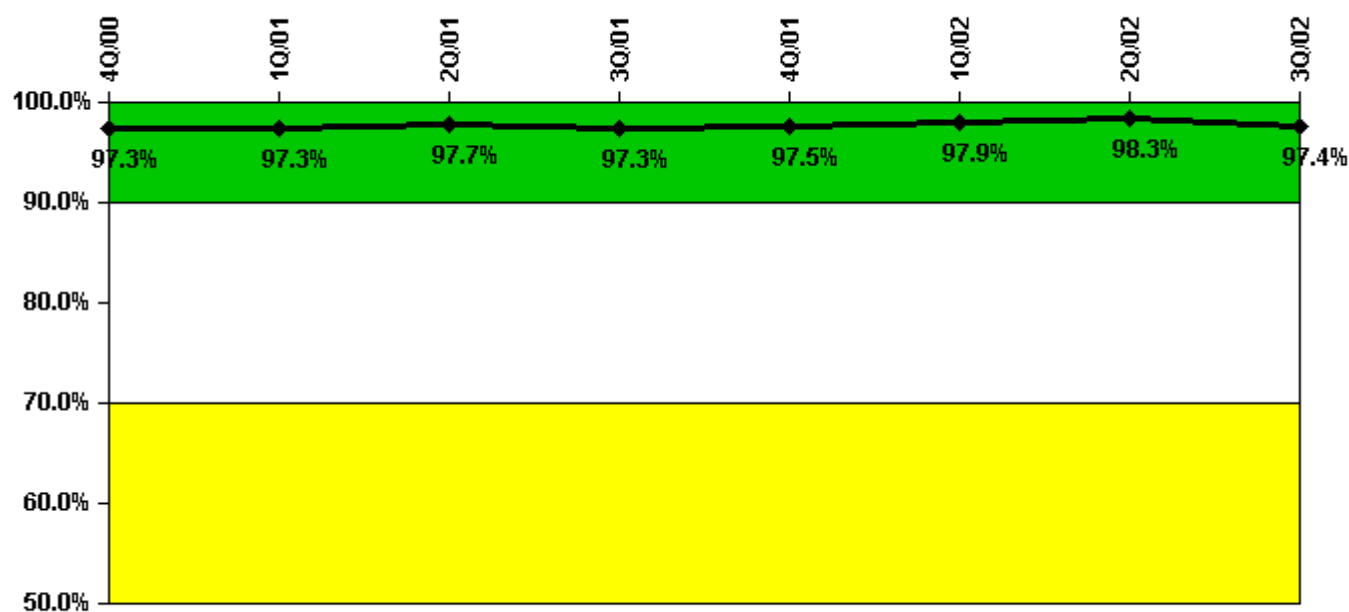
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.160	0.110	0.090	0.090	0.090	0.080	0.100	0.090	0.090	0.090	0.100	0.120
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.6	1.1	0.9	0.9	0.9	0.8	1.0	0.9	0.9	0.9	1.0	1.2
Reactor Coolant System Leakage	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum leakage	0.110	N/A	0.150	0.170	0.240	0.160	0.140	0.160	0.190	0.120	0.290	0.130
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.1	N/A	1.5	1.7	2.4	1.6	1.4	1.6	1.9	1.2	2.9	1.3

Licensee Comments: none

Drill/Exercise Performance



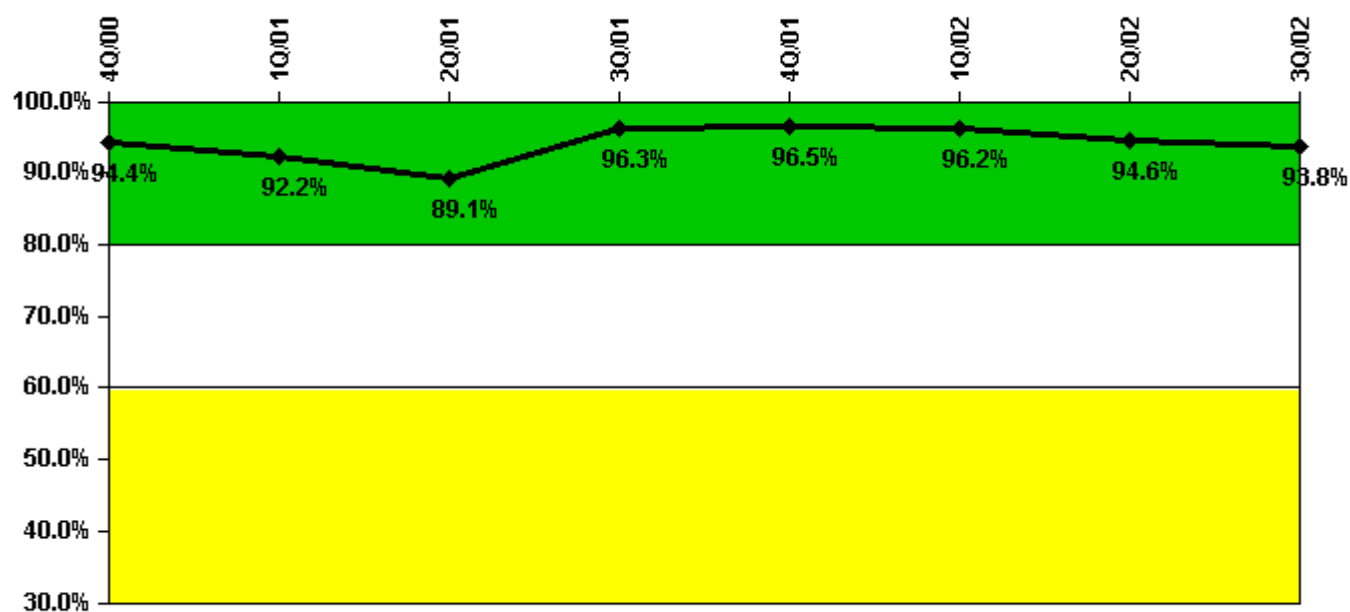
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful opportunities	0	0	49.0	39.0	27.0	40.0	55.0	54.0
Total opportunities	0	0	51.0	41.0	28.0	40.0	55.0	56.0
Indicator value	97.3%	97.3%	97.7%	97.3%	97.5%	97.9%	98.3%	97.4%

Licensee Comments: none

ERO Drill Participation



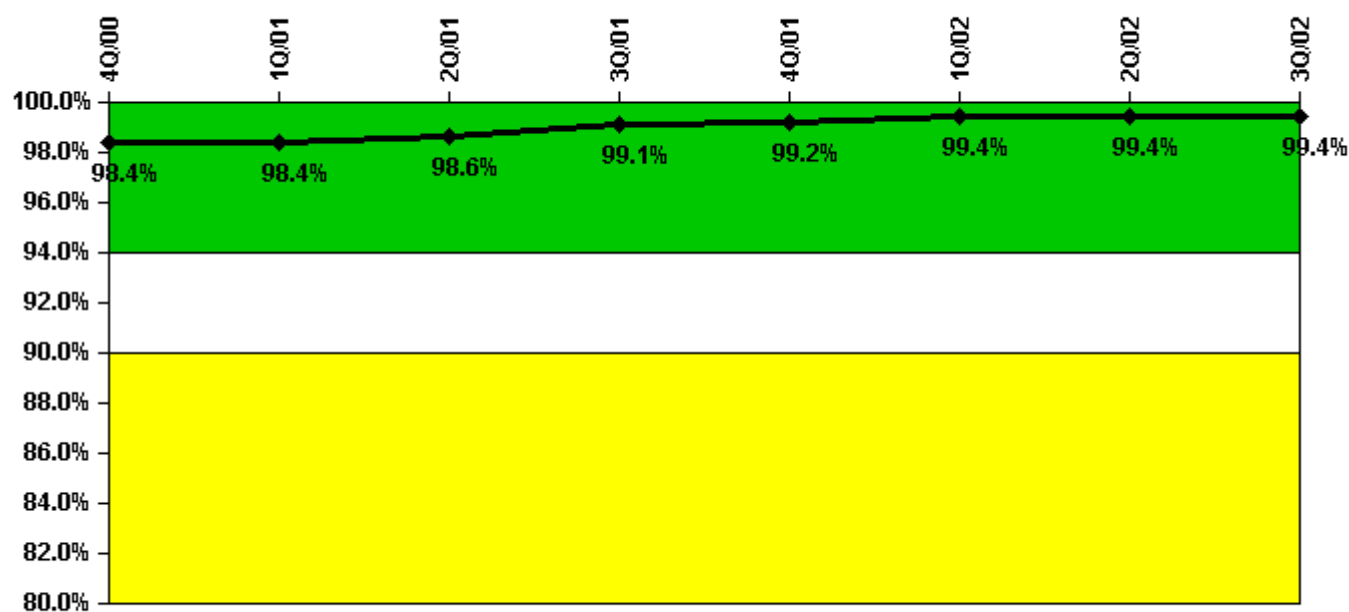
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Participating Key personnel	136.0	119.0	123.0	129.0	137.0	126.0	141.0	135.0
Total Key personnel	144.0	129.0	138.0	134.0	142.0	131.0	149.0	144.0
Indicator value	94.4%	92.2%	89.1%	96.3%	96.5%	96.2%	94.6%	93.8%

Licensee Comments: none

Alert & Notification System



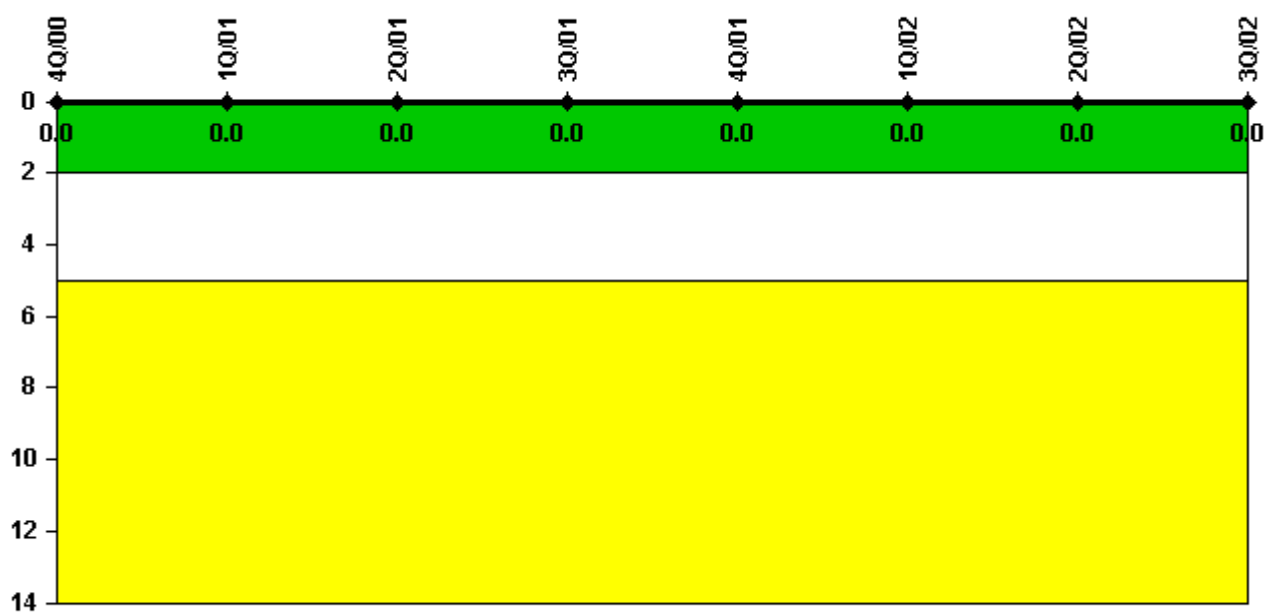
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful siren-tests	444	442	507	447	508	518	515	453
Total sirens-tests	448	448	512	448	512	520	520	455
Indicator value	98.4%	98.4%	98.6%	99.1%	99.2%	99.4%	99.4%	99.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness

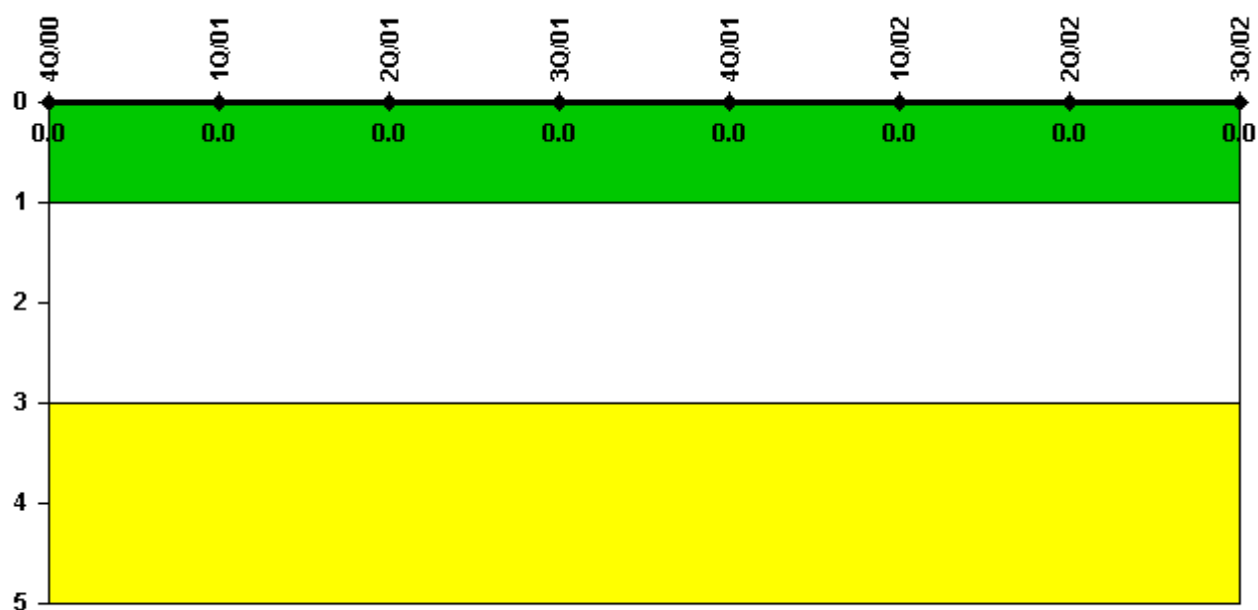


Thresholds: White > 2.0 Yellow > 5.0

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

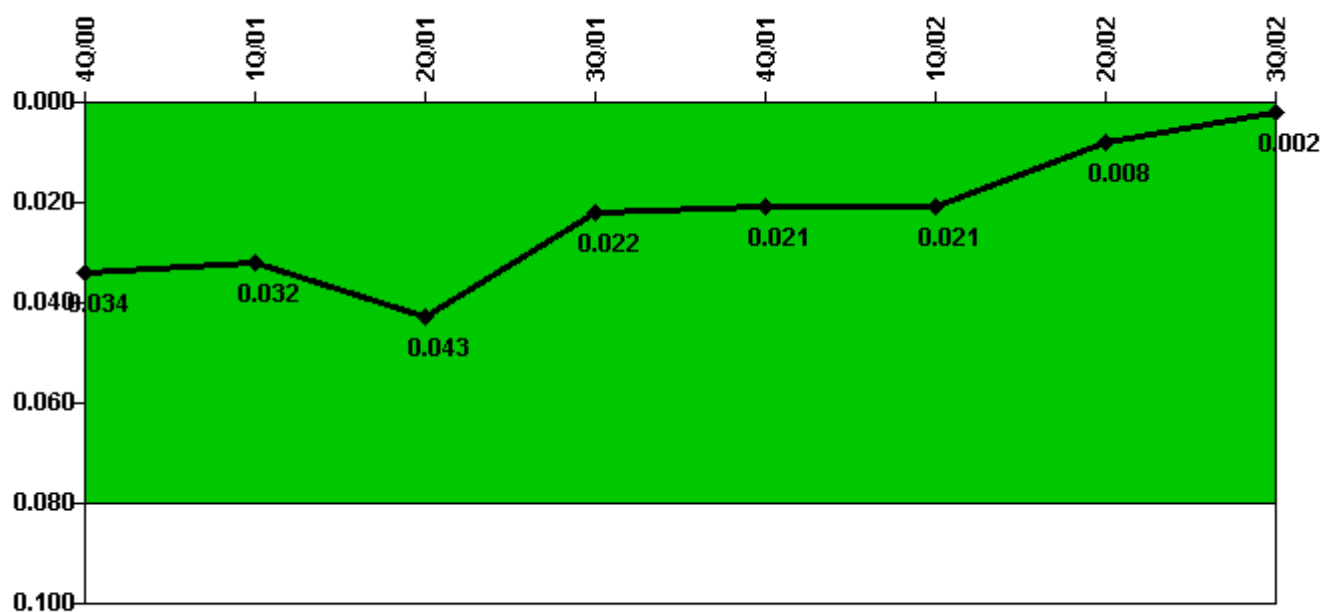
Thresholds: White > 1.0 Yellow > 3.0

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

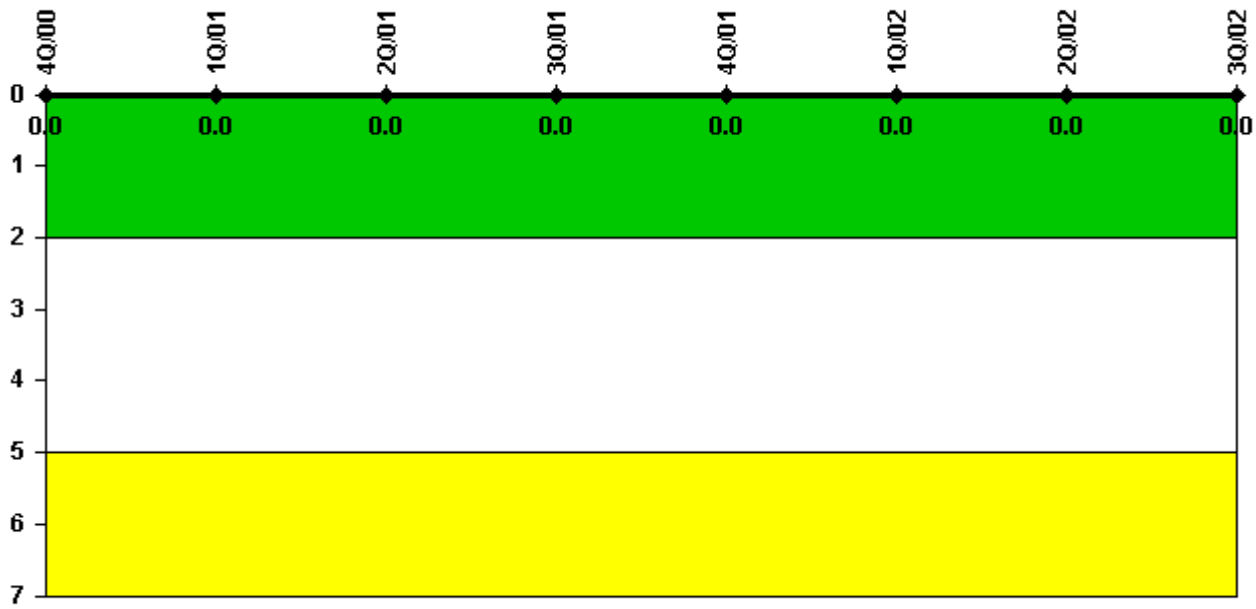
Notes

Protected Area Security Performance Index	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
IDS compensatory hours	16.10	0	256.52	125.73	0	0	13.26	27.25
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.034	0.032	0.043	0.022	0.021	0.021	0.008	0.002

Licensee Comments:

3Q/02: The Protected Area perimeter threat assessment function at Surry is primarily provided by armed response personnel in towers. This performance data reflects one CCTV camera which covers the part of the perimeter not covered by a tower.

Personnel Screening Program



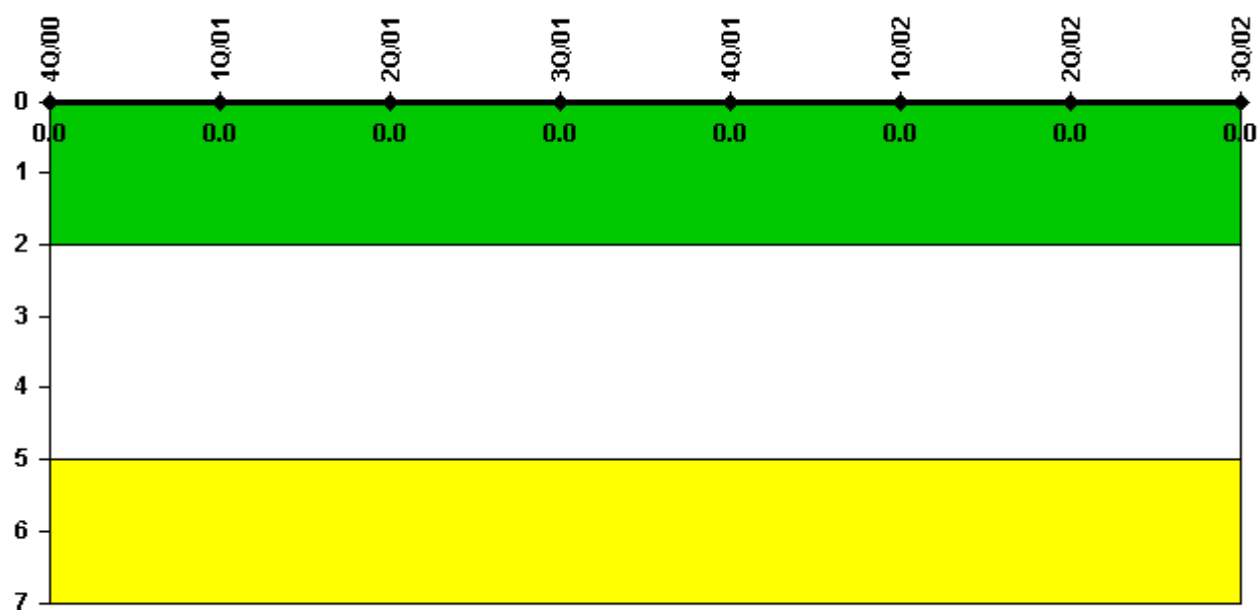
Thresholds: White > 2.0 Yellow > 5.0

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](#)

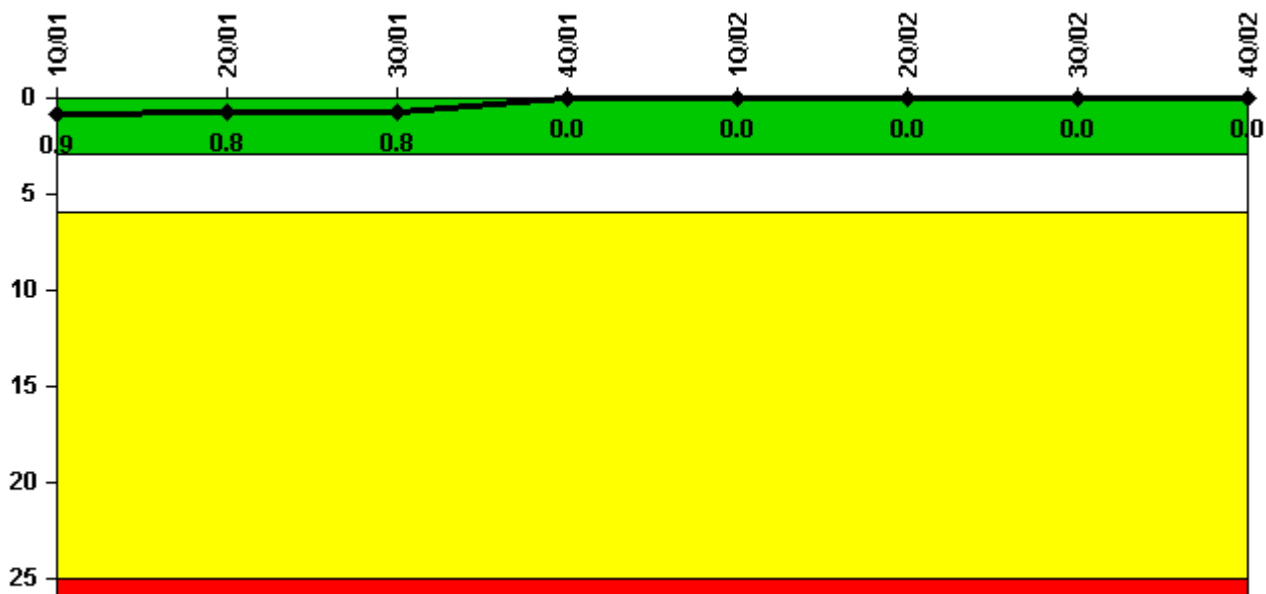
Last Modified: October 22, 2002

Surry 1

4Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



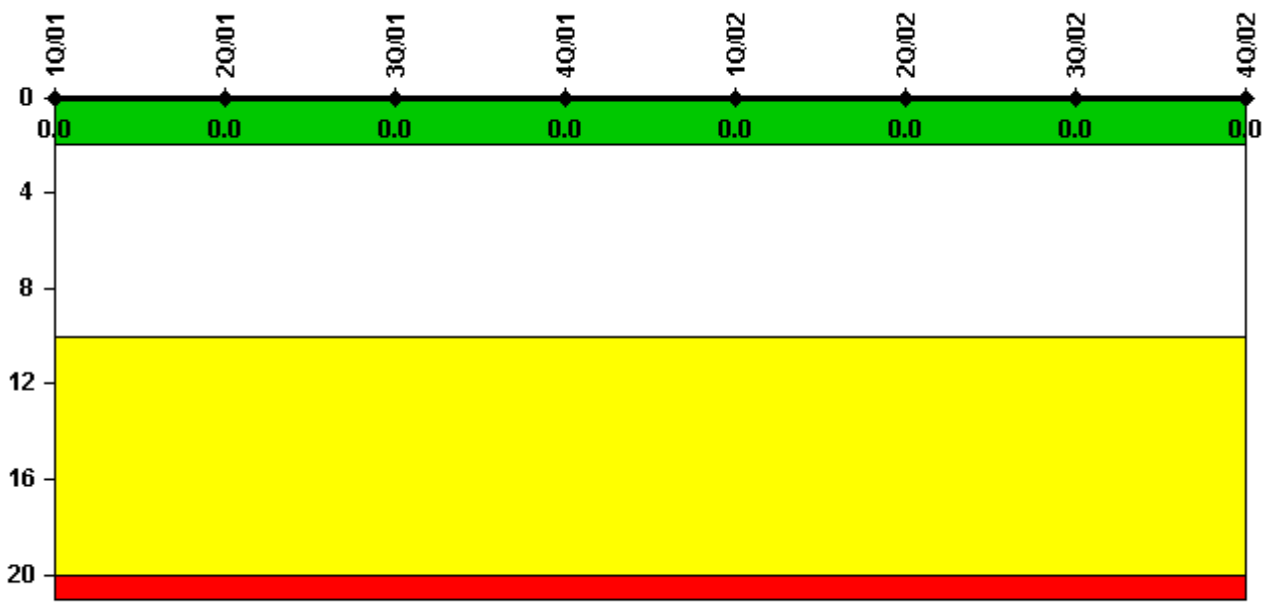
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2160.0	2145.9	2208.0	943.6	2160.0	2183.0	2208.0	2209.0
Indicator value	0.9	0.8	0.8	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



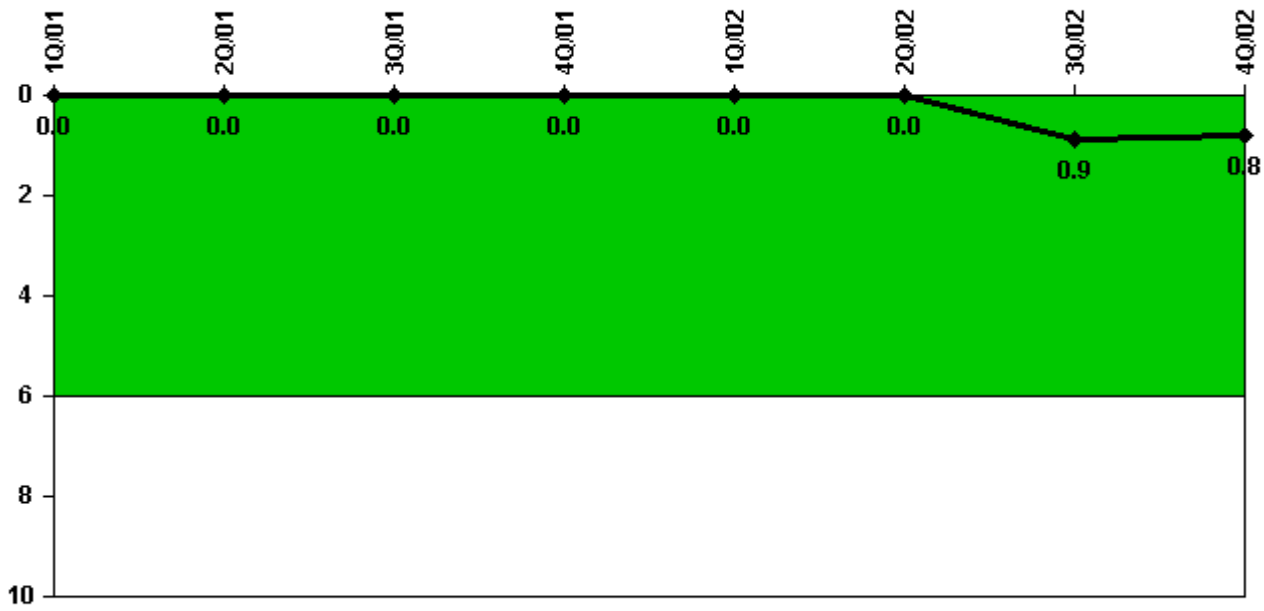
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



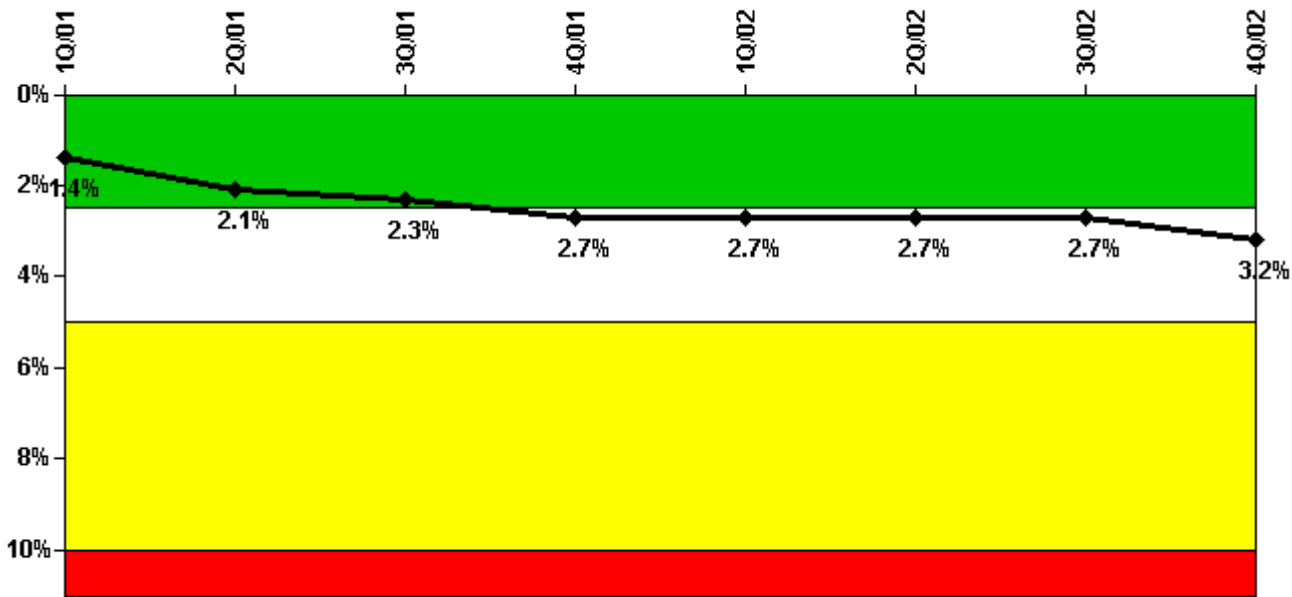
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2160.0	2145.9	2208.0	943.6	2160.0	2183.0	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0.9	0.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



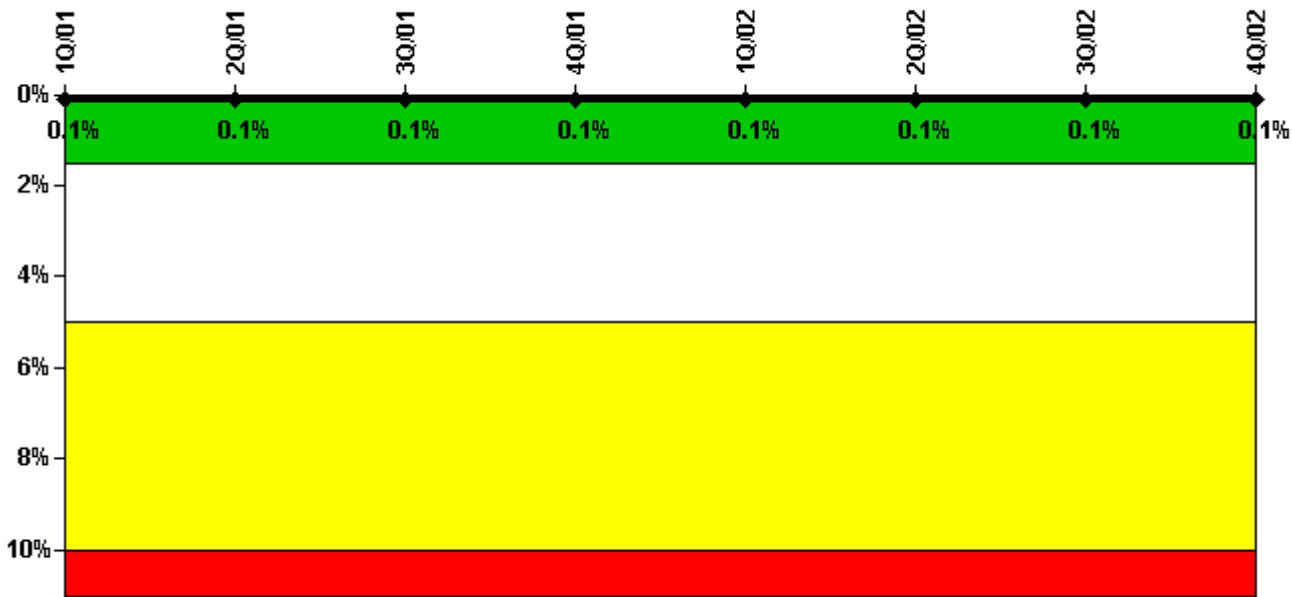
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	14.05	13.67	101.25	5.23	35.93	11.35	15.88	78.67
Unplanned unavailable hours	0	0	21.38	0.15	3.45	5.15	0	0
Fault exposure hours	0	0	0	237.77	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	994.68	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	26.29	23.94	30.86	11.10	21.07	47.55	23.20	138.04
Unplanned unavailable hours	0	131.35	3.53	8.03	7.37	0	9.50	85.35
Fault exposure hours	0	192.03	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	994.68	2160.00	2183.00	2208.00	2209.00
Indicator value	1.4%	2.1%	2.3%	2.7%	2.7%	2.7%	2.7%	3.2%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



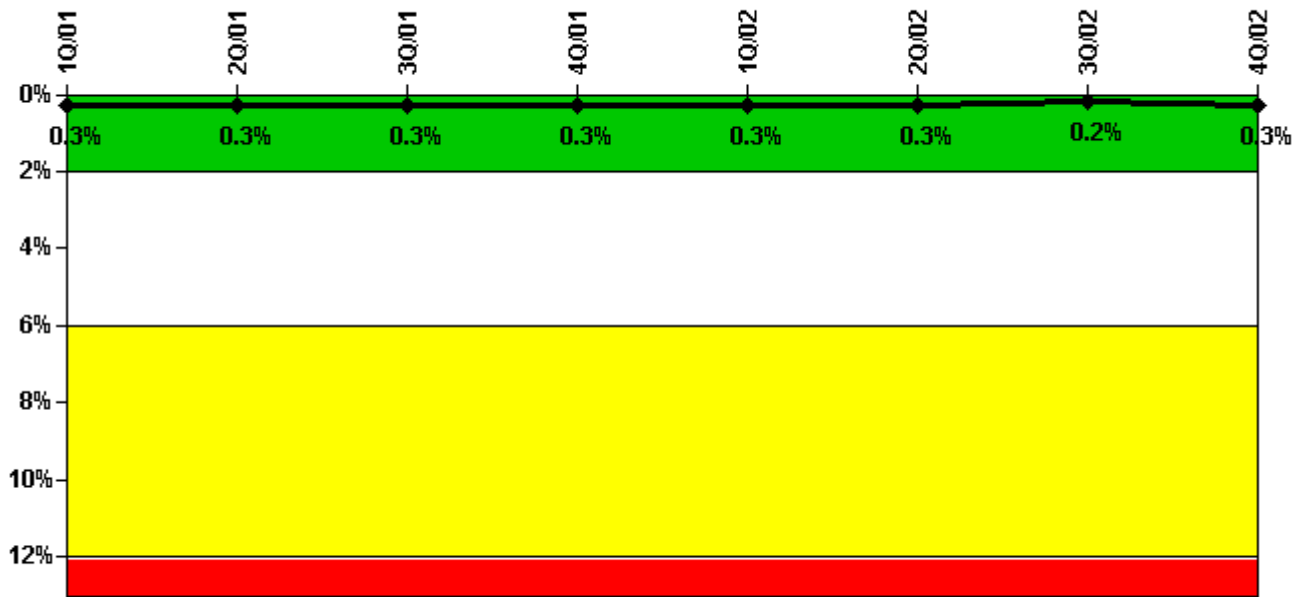
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	3.60	0	0	0	0	0	0	0.57
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	994.70	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0.70	0.50	2.50	0.70	1.10	4.20	3.06	0.32
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	994.70	2160.00	2183.00	2208.00	2209.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



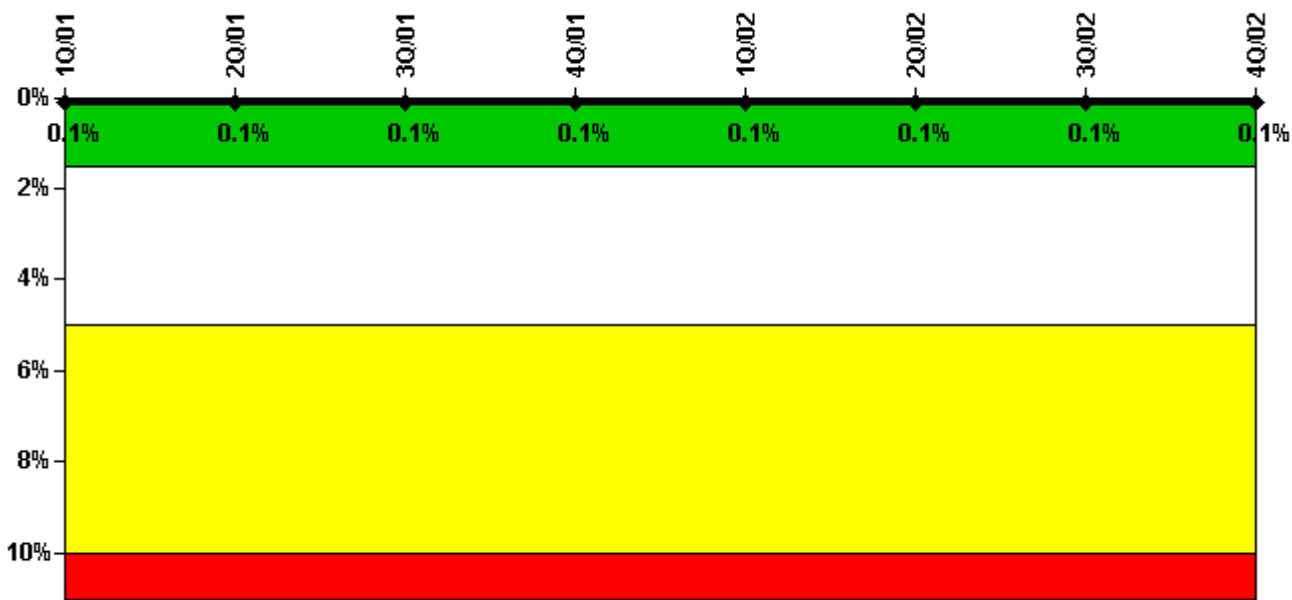
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	12.40	1.80	12.20	0.20	10.80	0.90	1.80	2.78
Unplanned unavailable hours	0	0	0	0	0	0	0	10.90
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	994.70	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0	1.90	1.60	1.00	0.90	8.30	1.47	1.38
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	994.70	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	11.30	3.50	1.40	0	1.40	16.10	0.75	3.18
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	994.70	2160.00	2183.00	2208.00	2209.00
Indicator value	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%	0.2%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



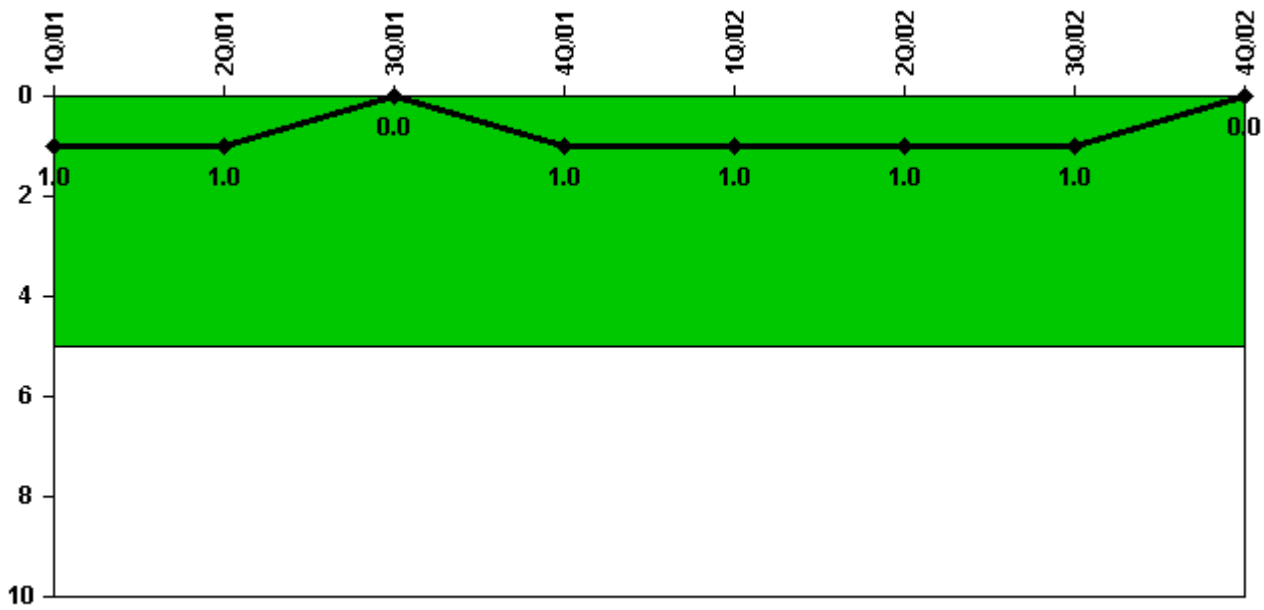
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	1.10	0.20	11.50	0.20	4.90	1.44	0.07	0.08
Unplanned unavailable hours	2.10	0	0	0	0.40	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1771.80	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0.10	0.10	0.50	0.20	0.60	1.12	1.30	0.07
Unplanned unavailable hours	2.10	0	0	0	0	0	0	0
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	1771.80	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	0	9.40	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	2183.00	2208.00	1963.30	2160.00	2183.00	2208.00	2209.00
Train 4								
Planned unavailable hours	0	0	0	9.40	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	2183.00	2208.00	1963.30	2160.00	2183.00	2208.00	2209.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



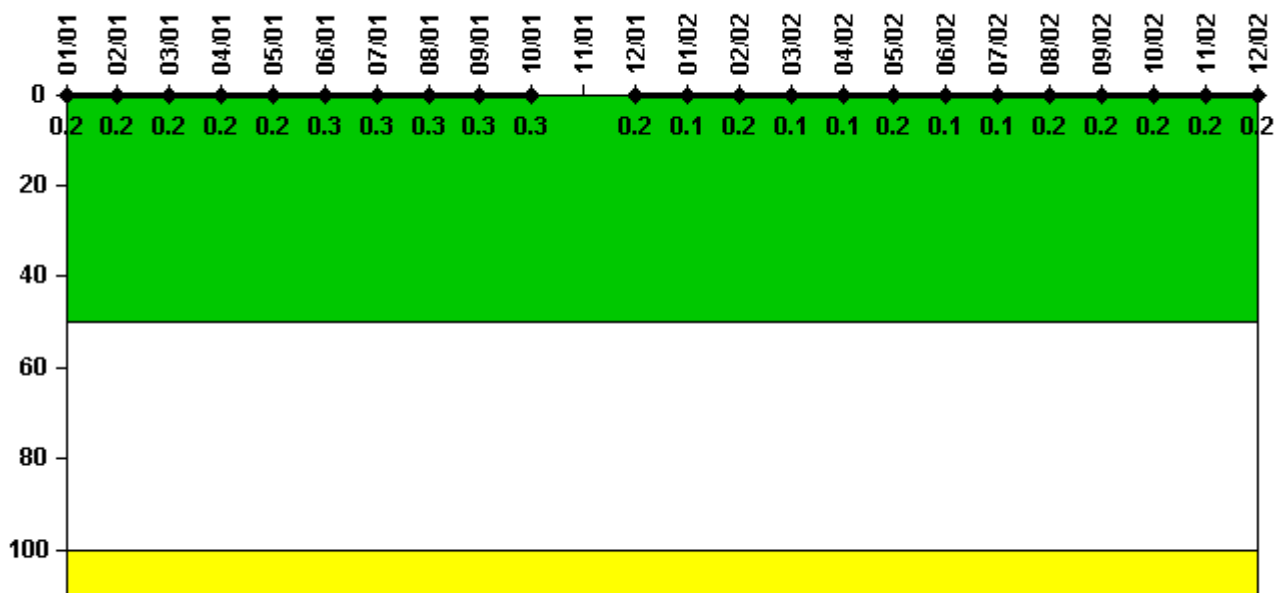
Thresholds: White > 5.0

Notes

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

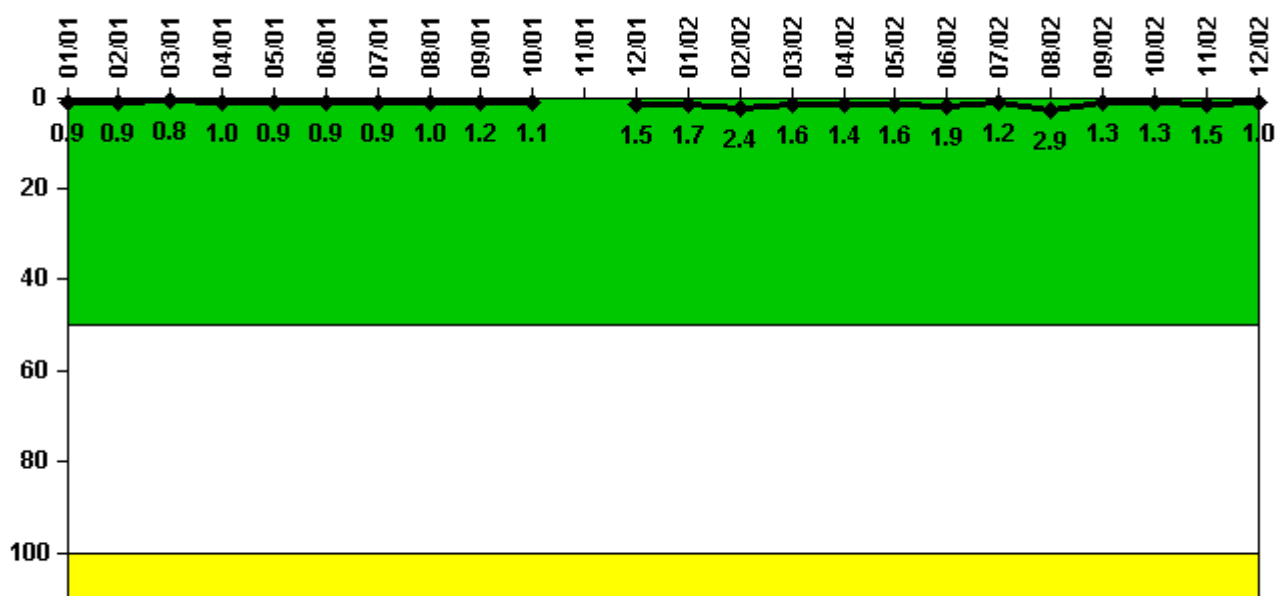
Notes

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	0.002240	0.002240	0.002270	0.002450	0.002450	0.002500	0.002630	0.002840	0.003020	0.002670	N/A	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	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	N/A	0.2

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	0.001060	0.001650	0.001200	0.001200	0.001500	0.001410	0.001390	0.002360	0.001630	0.001700	0.001780	0.001920
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

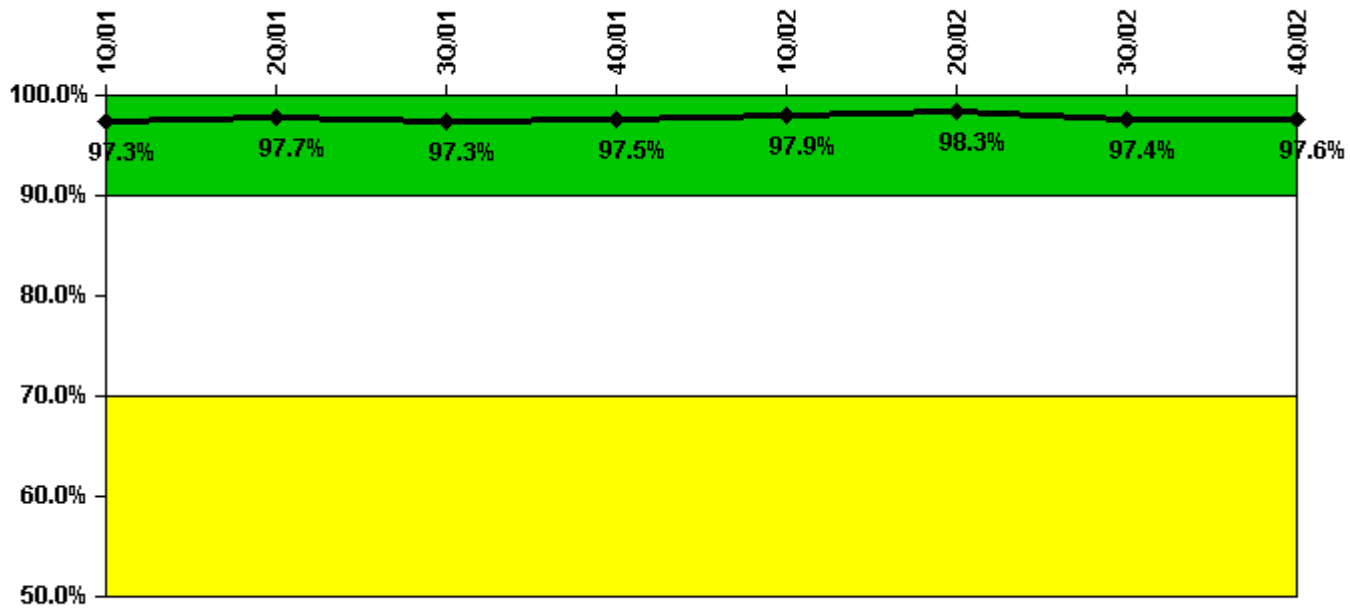
Notes

Reactor Coolant System Leakage	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	0.090	0.090	0.080	0.100	0.090	0.090	0.090	0.100	0.120	0.110	N/A	0.150
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.9	0.9	0.8	1.0	0.9	0.9	0.9	1.0	1.2	1.1	N/A	1.5

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	0.170	0.240	0.160	0.140	0.160	0.190	0.120	0.290	0.130	0.130	0.150	0.100
Technical specification limit	10.0	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	2.4	1.6	1.4	1.6	1.9	1.2	2.9	1.3	1.3	1.5	1.0

Licensee Comments: none

Drill/Exercise Performance



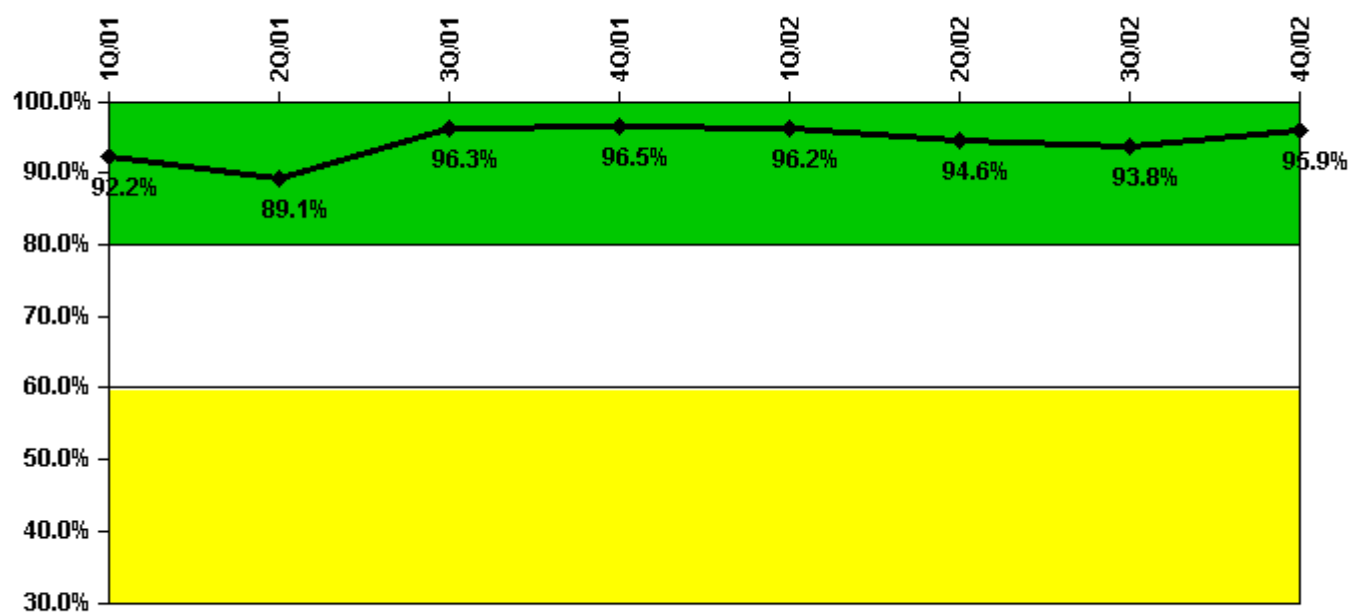
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful opportunities	0	49.0	39.0	27.0	40.0	55.0	54.0	18.0
Total opportunities	0	51.0	41.0	28.0	40.0	55.0	56.0	18.0
Indicator value	97.3%	97.7%	97.3%	97.5%	97.9%	98.3%	97.4%	97.6%

Licensee Comments: none

ERO Drill Participation



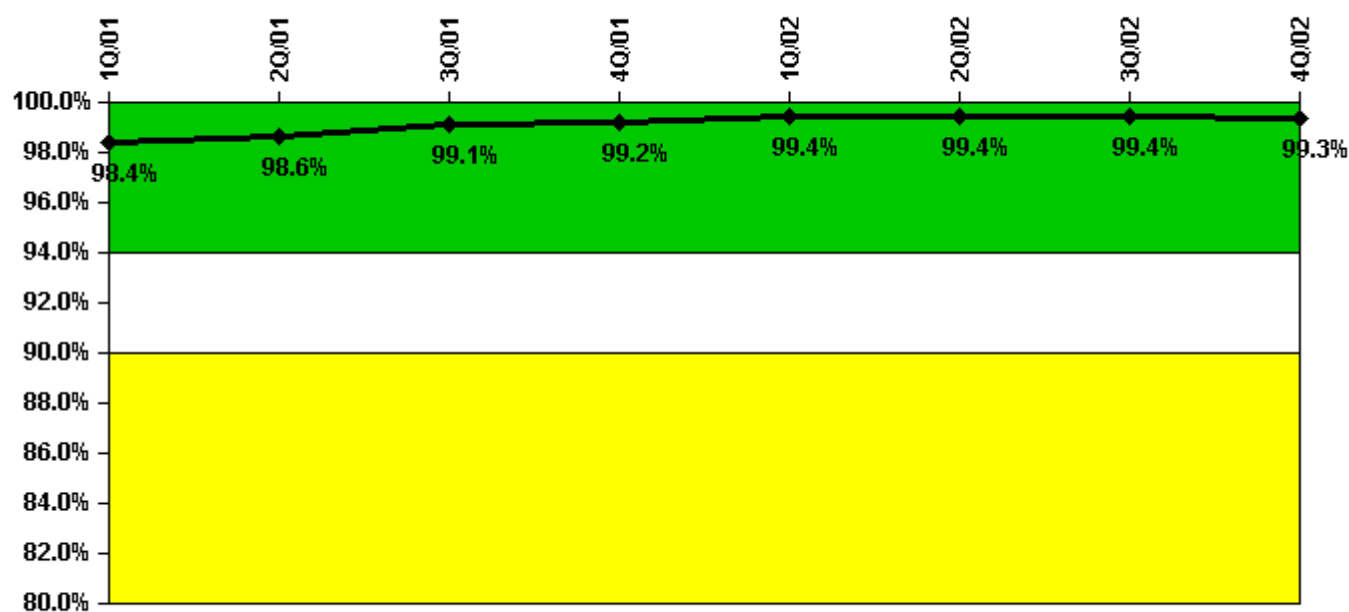
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Participating Key personnel	119.0	123.0	129.0	137.0	126.0	141.0	135.0	140.0
Total Key personnel	129.0	138.0	134.0	142.0	131.0	149.0	144.0	146.0
Indicator value	92.2%	89.1%	96.3%	96.5%	96.2%	94.6%	93.8%	95.9%

Licensee Comments: none

Alert & Notification System



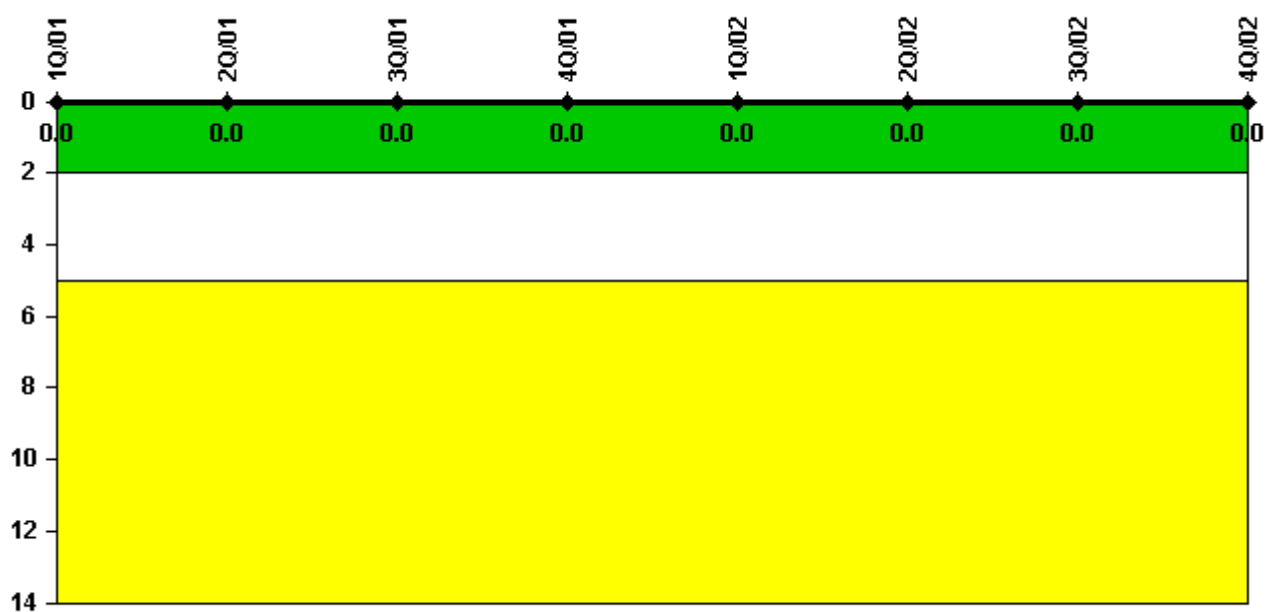
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful siren-tests	442	507	447	508	518	515	453	514
Total sirens-tests	448	512	448	512	520	520	455	520
Indicator value	98.4%	98.6%	99.1%	99.2%	99.4%	99.4%	99.4%	99.3%

Licensee Comments: none

Occupational Exposure Control Effectiveness

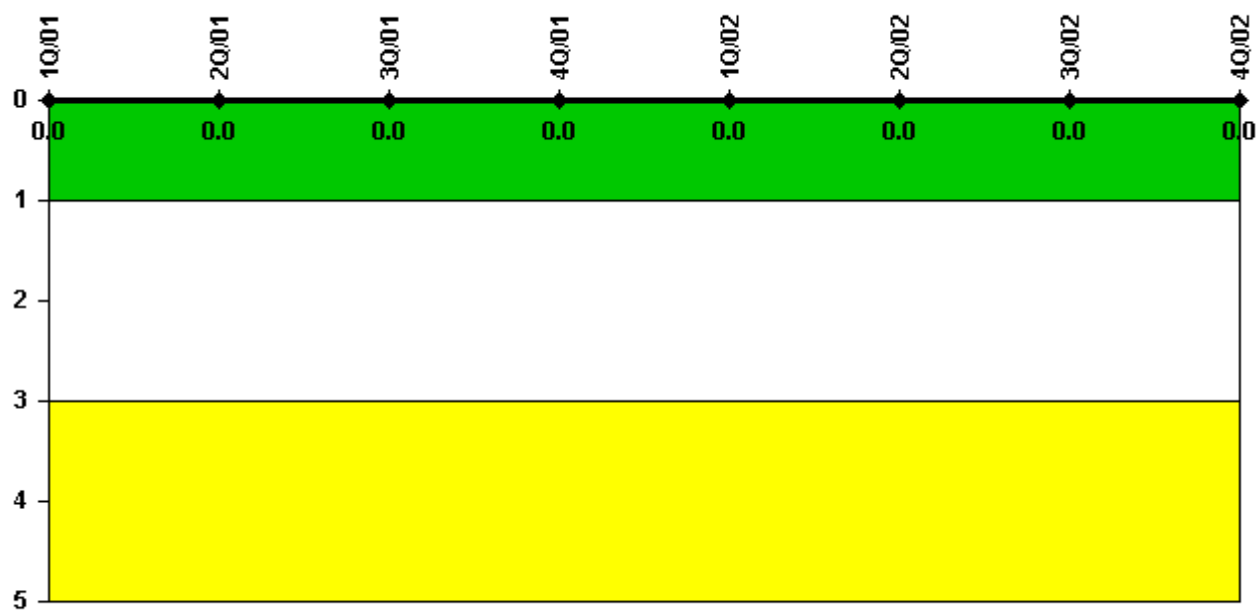


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/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

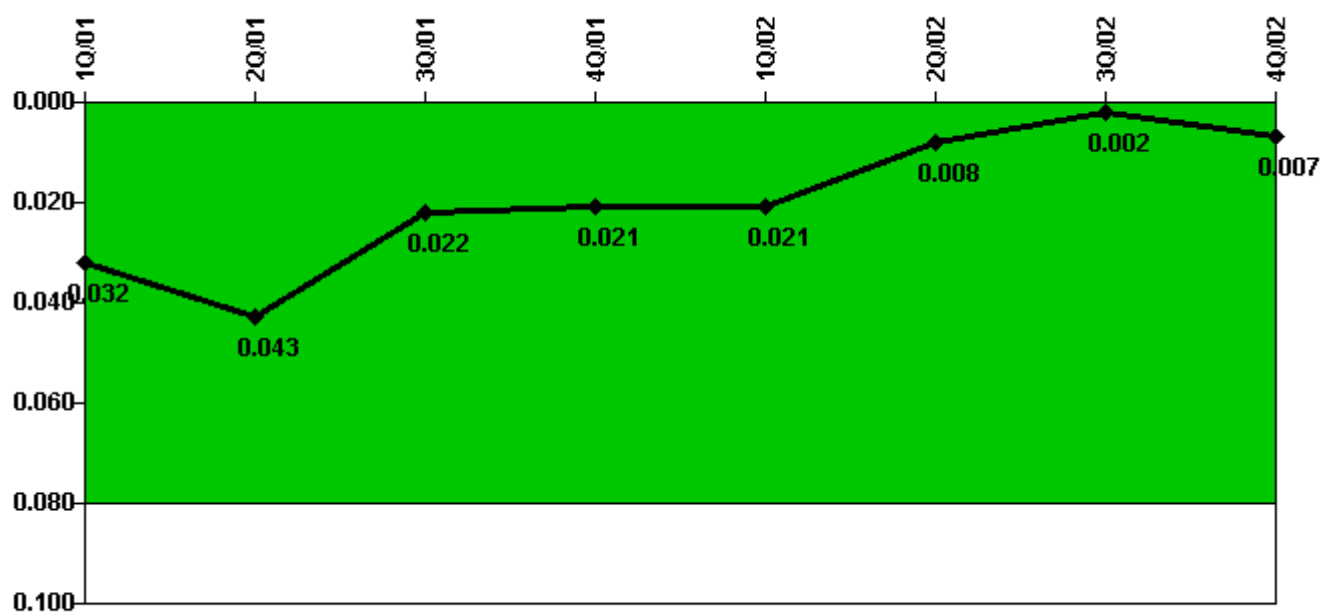
Thresholds: White > 1.0 Yellow > 3.0

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

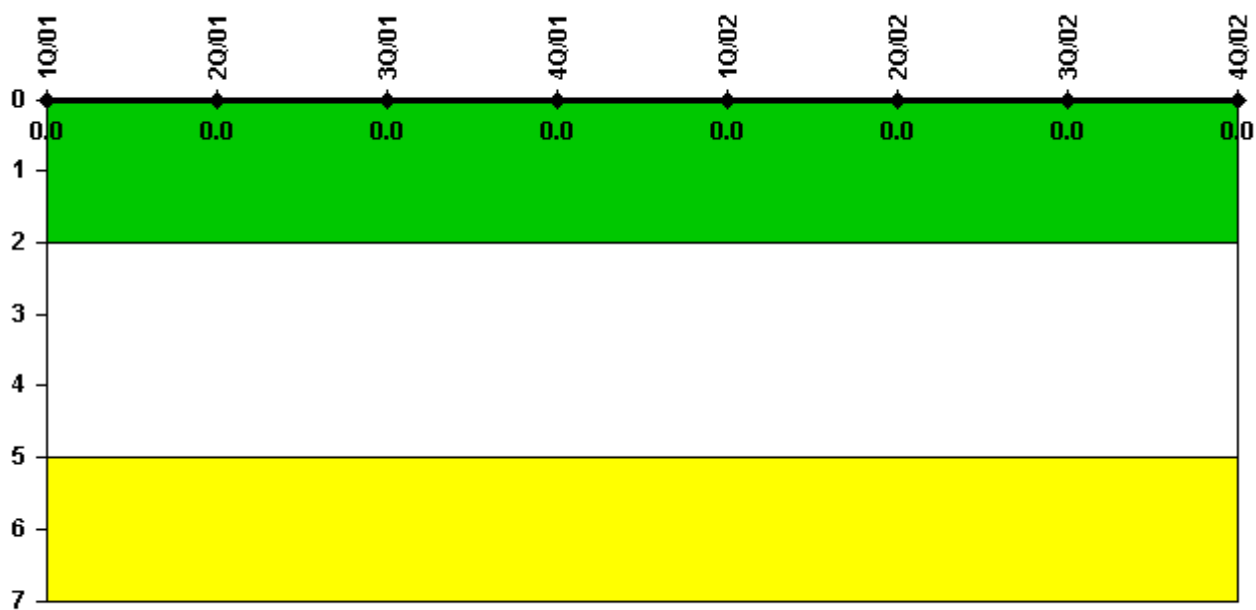


Thresholds: White > 0.080

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	256.52	125.73	0	0	13.26	27.25	83.20
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.032	0.043	0.022	0.021	0.021	0.008	0.002	0.007

Personnel Screening Program



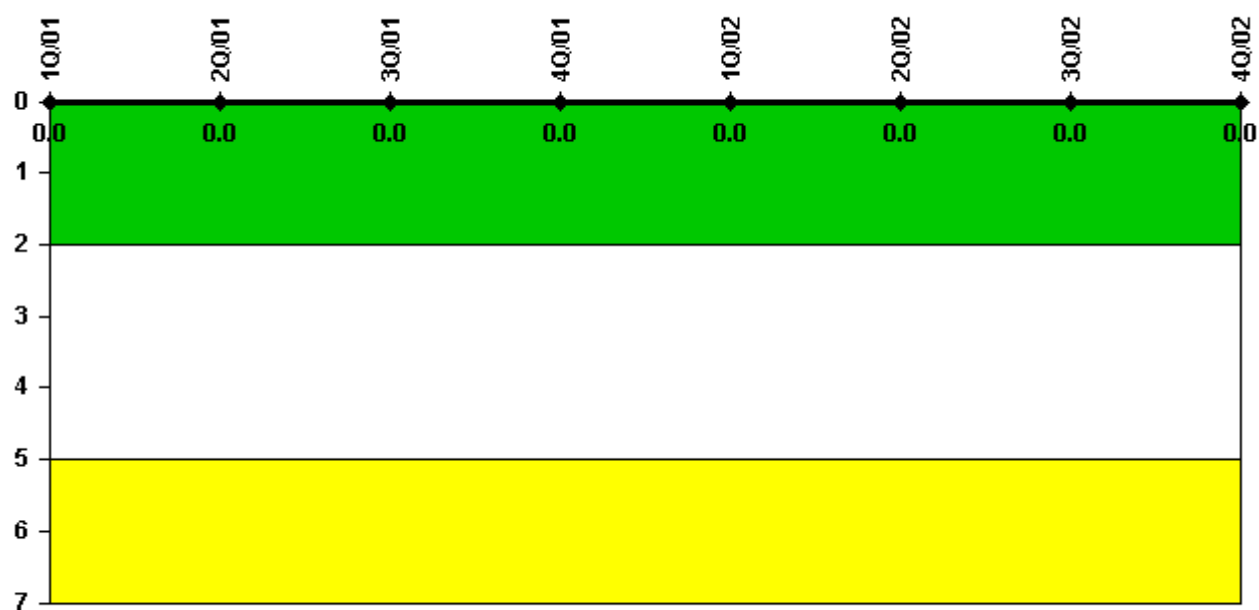
Thresholds: White > 2.0 Yellow > 5.0

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](#)

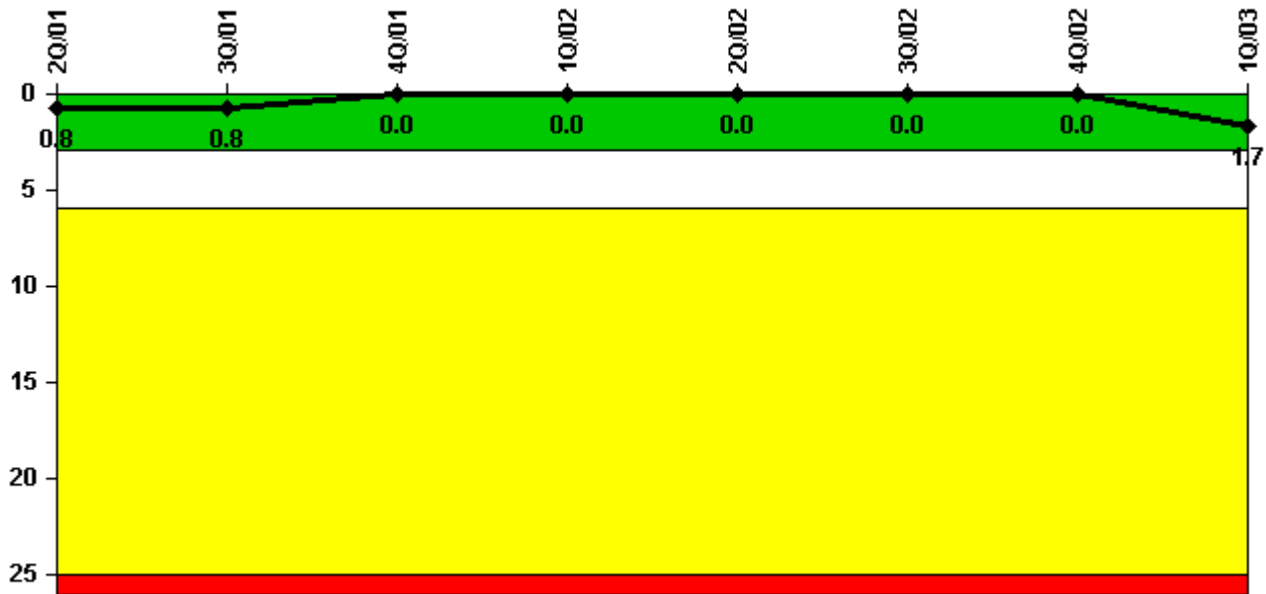
Last Modified: January 30, 2003

Surry 1

1Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned scrams	0	0	0	0	0	0	0	2.0
Critical hours	2145.9	2208.0	943.6	2160.0	2183.0	2208.0	2209.0	1869.5
Indicator value	0.8	0.8	0	0	0	0	0	1.7

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



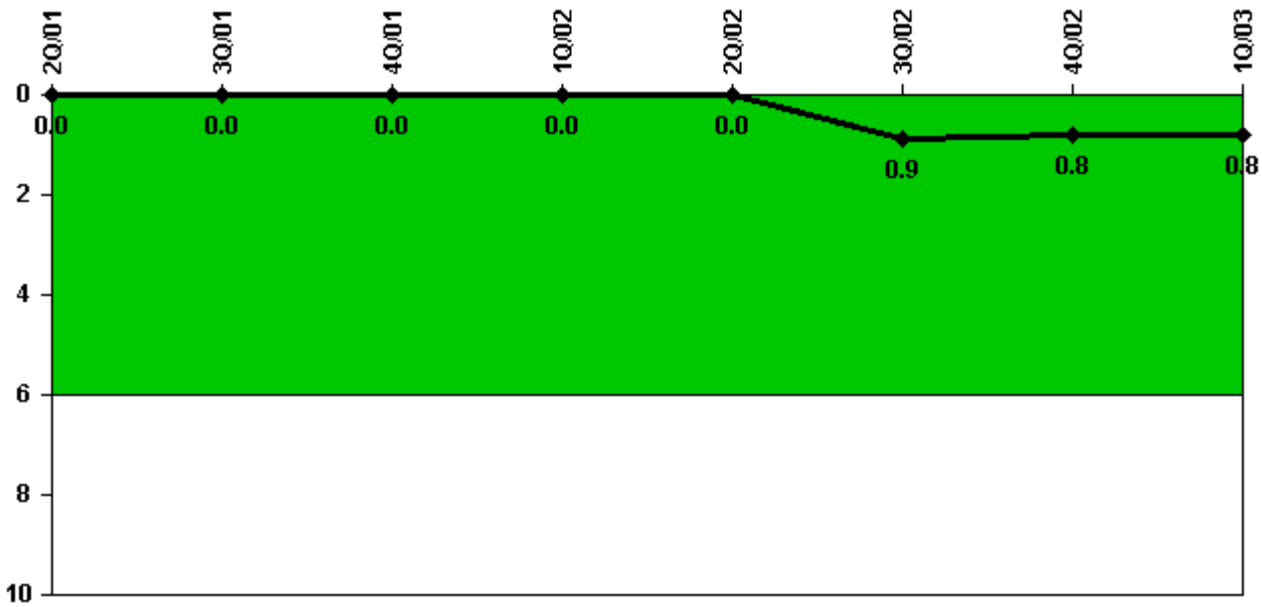
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



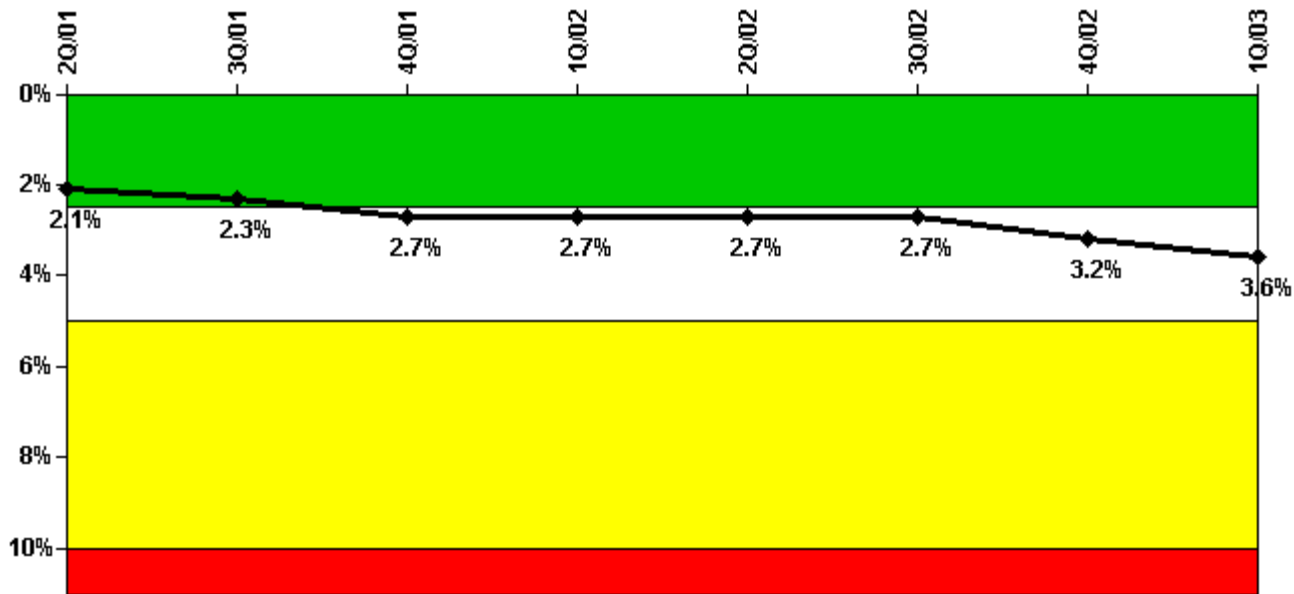
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2145.9	2208.0	943.6	2160.0	2183.0	2208.0	2209.0	1869.5
Indicator value	0	0	0	0	0	0.9	0.8	0.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



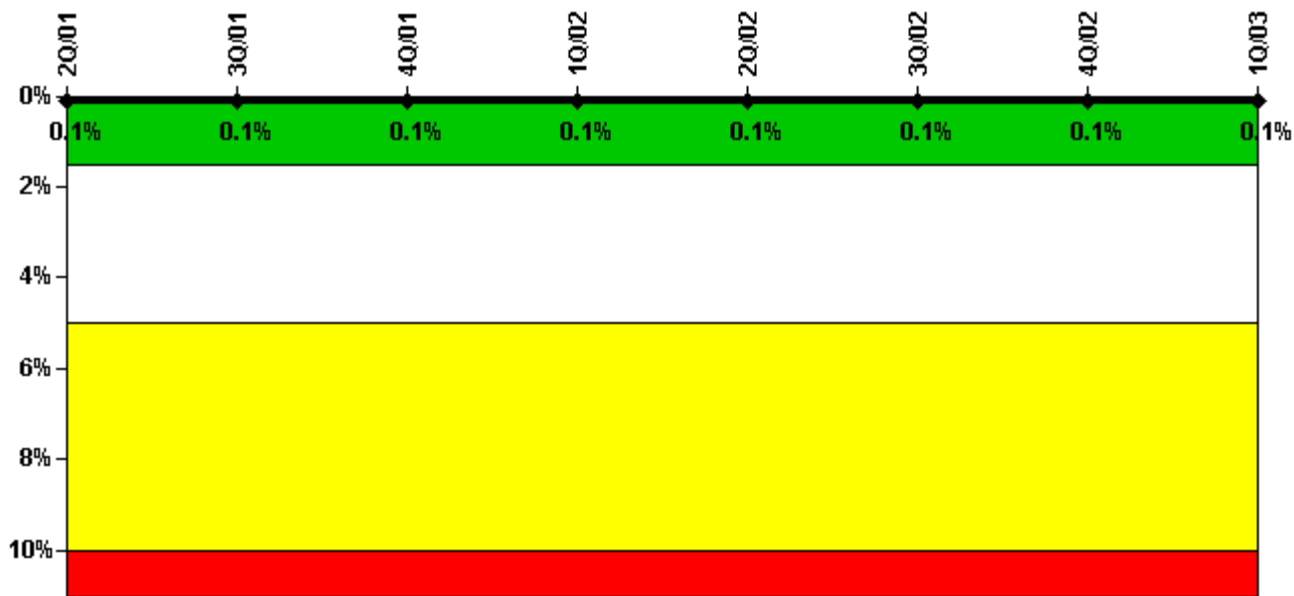
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	13.67	101.25	5.23	35.93	11.35	15.88	78.67	84.65
Unplanned unavailable hours	0	21.38	0.15	3.45	5.15	0	0	0
Fault exposure hours	0	0	237.77	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	994.68	2160.00	2183.00	2208.00	2209.00	1963.67
Train 2								
Planned unavailable hours	23.94	30.86	11.10	21.07	47.55	23.20	138.04	10.36
Unplanned unavailable hours	131.35	3.53	8.03	7.37	0	9.50	85.35	120.18
Fault exposure hours	192.03	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	994.68	2160.00	2183.00	2208.00	2209.00	1963.67
Indicator value	2.1%	2.3%	2.7%	2.7%	2.7%	2.7%	3.2%	3.6%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



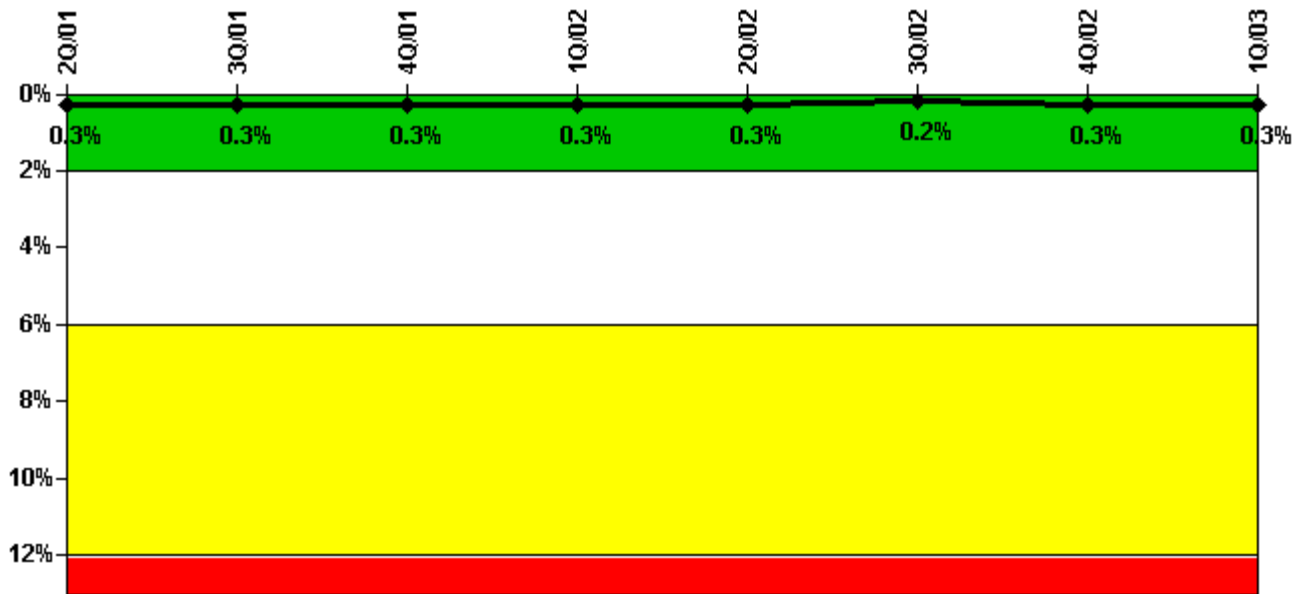
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0	0	0	0	0	0	0.57	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	994.70	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	0.50	2.50	0.70	1.10	4.20	3.06	0.32	1.83
Unplanned unavailable hours	0	0	0	0	0	0	0	0
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	994.70	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



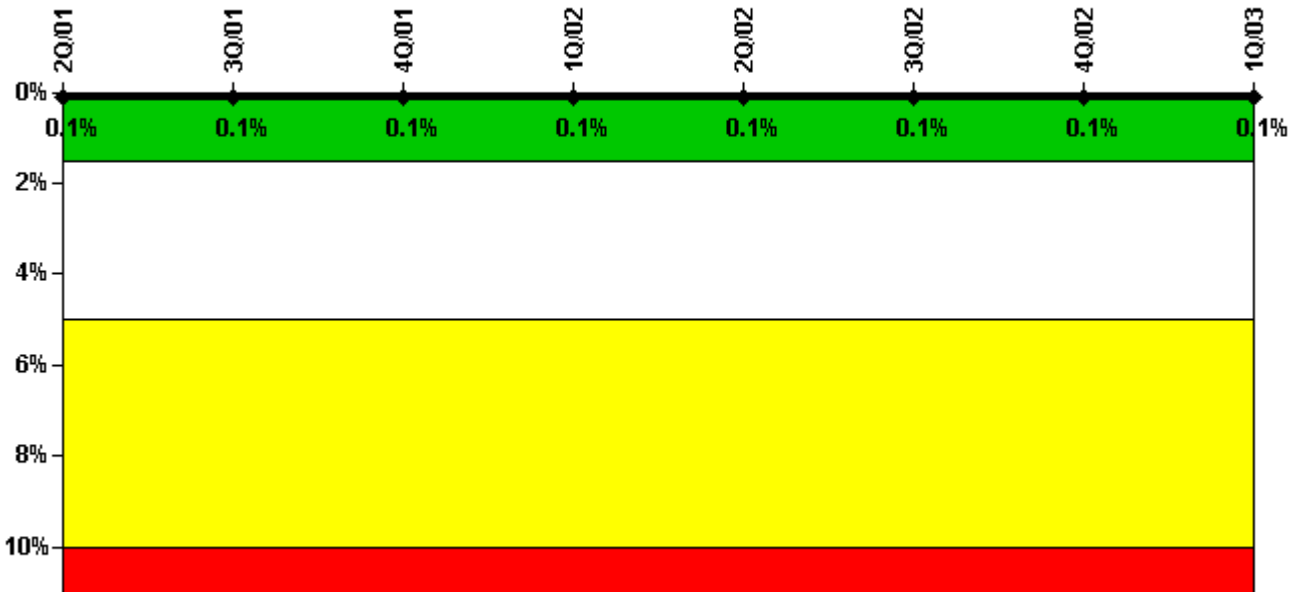
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	1.80	12.20	0.20	10.80	0.90	1.80	2.78	0.88
Unplanned unavailable hours	0	0	0	0	0	0	10.90	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	994.70	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	1.90	1.60	1.00	0.90	8.30	1.47	1.38	1.20
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	994.70	2160.00	2183.00	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	3.50	1.40	0	1.40	16.10	0.75	3.18	2.50
Unplanned unavailable hours	0	0	0	0	0	0	0	71.30
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	994.70	2160.00	2183.00	2208.00	2209.00	1951.00
Indicator value	0.3%	0.3%	0.3%	0.3%	0.3%	0.2%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

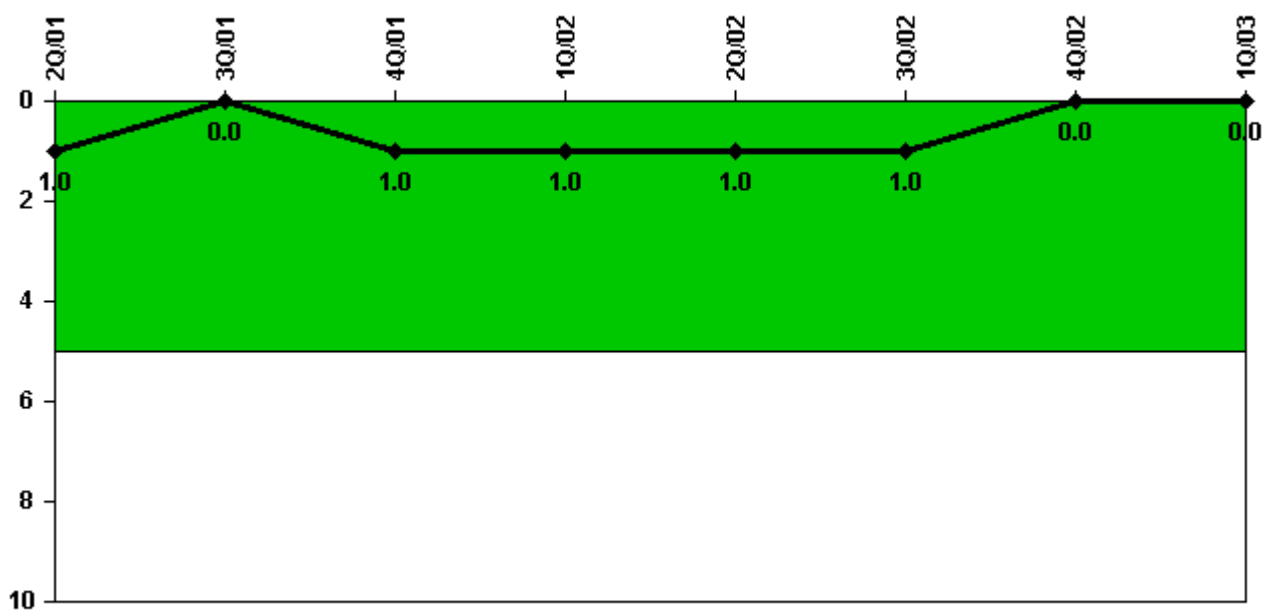
Notes

Safety System Unavailability, Residual Heat Removal System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0.20	11.50	0.20	4.90	1.44	0.07	0.08	15.91
Unplanned unavailable hours	0	0	0	0.40	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1771.80	2160.00	2183.00	2208.00	2209.00	1870.00
Train 2								
Planned unavailable hours	0.10	0.50	0.20	0.60	1.12	1.30	0.07	23.02
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1771.80	2160.00	2183.00	2208.00	2209.00	1870.00
Train 3								
Planned unavailable hours	0	0	9.40	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1963.30	2160.00	2183.00	2208.00	2209.00	2042.00
Train 4								
Planned unavailable hours	0	0	9.40	0	0	0	0	0

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1963.30	2160.00	2183.00	2208.00	2209.00	2042.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



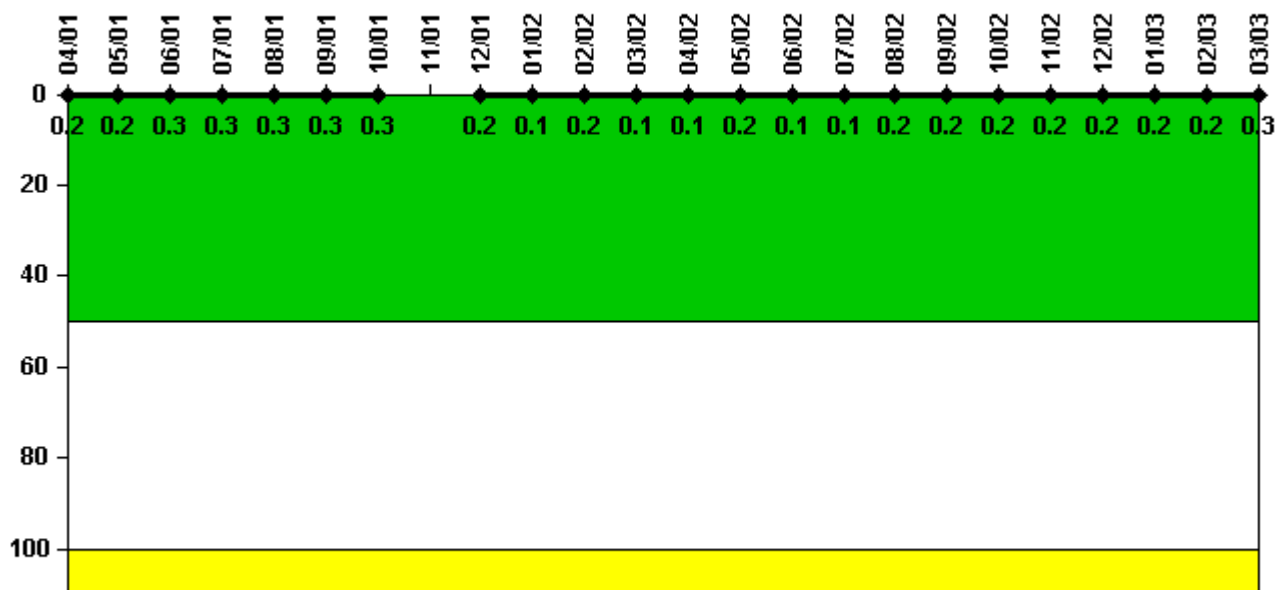
Thresholds: White > 5.0

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

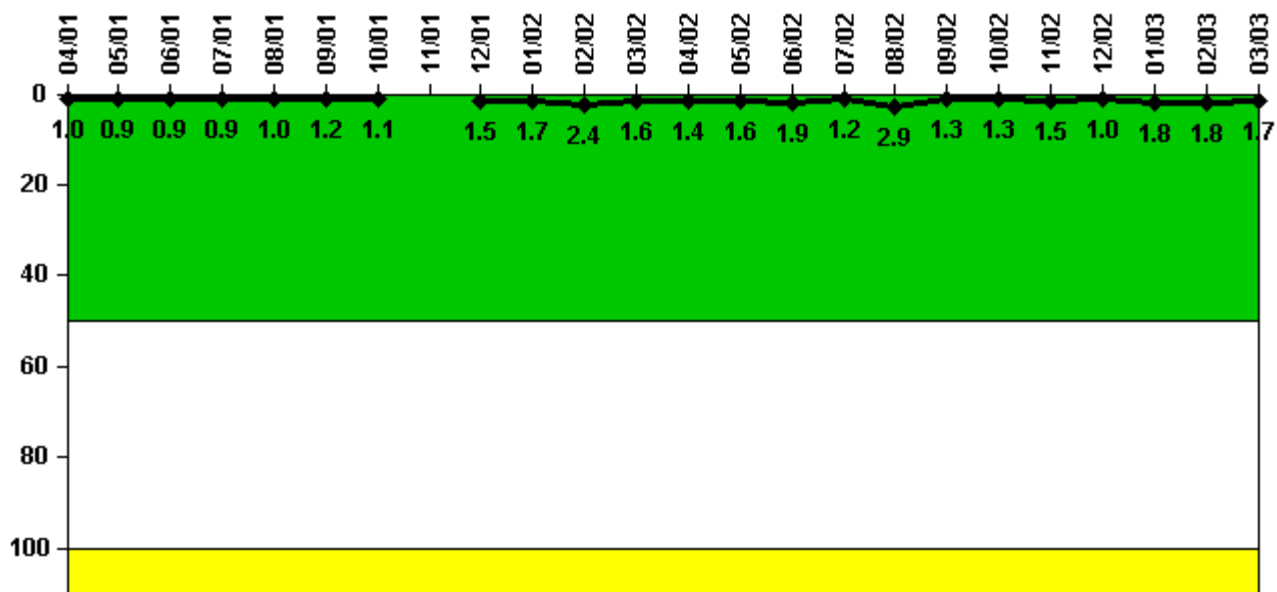
Notes

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	0.002450	0.002450	0.002500	0.002630	0.002840	0.003020	0.002670	N/A	0.001550	0.001060	0.001650	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	0.2	0.2	0.3	0.3	0.3	0.3	0.3	N/A	0.2	0.1	0.2	0.1

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	0.001200	0.001500	0.001410	0.001390	0.002360	0.001630	0.001700	0.001780	0.001920	0.001870	0.001920	0.002810
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

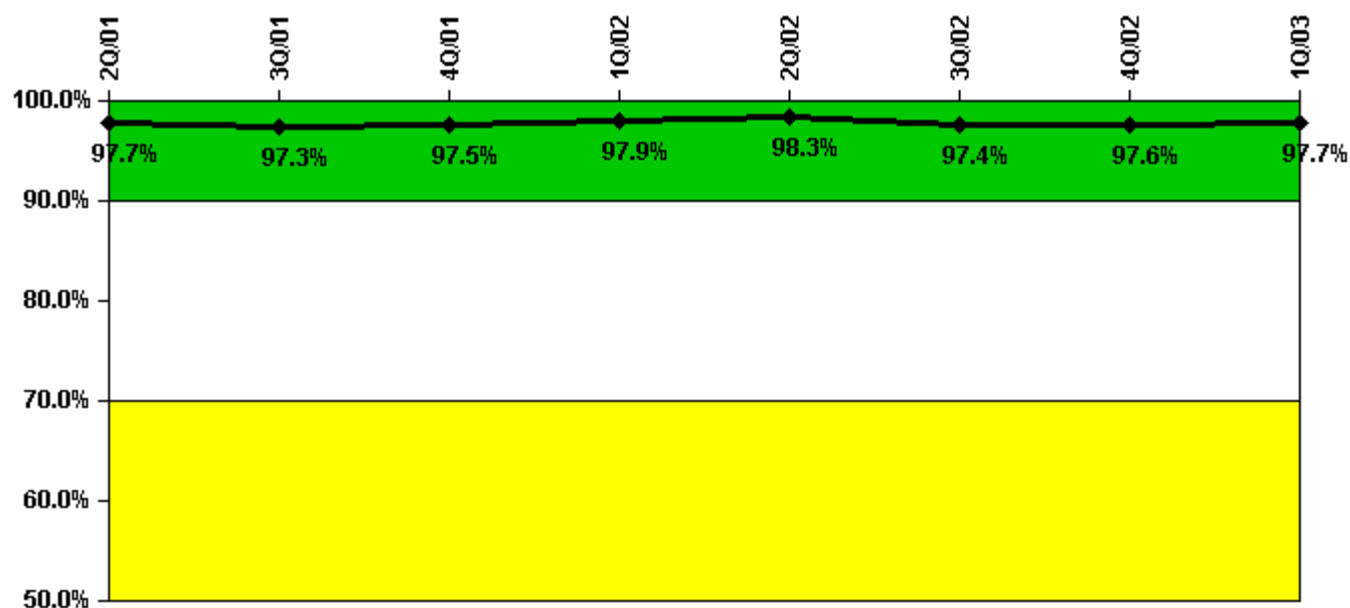
Notes

Reactor Coolant System Leakage	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	0.100	0.090	0.090	0.090	0.100	0.120	0.110	N/A	0.150	0.170	0.240	0.160
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	0.9	0.9	0.9	1.0	1.2	1.1	N/A	1.5	1.7	2.4	1.6

Reactor Coolant System Leakage	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum leakage	0.140	0.160	0.190	0.120	0.290	0.130	0.130	0.150	0.100	0.180	0.180	0.170
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.4	1.6	1.9	1.2	2.9	1.3	1.3	1.5	1.0	1.8	1.8	1.7

Licensee Comments: none

Drill/Exercise Performance



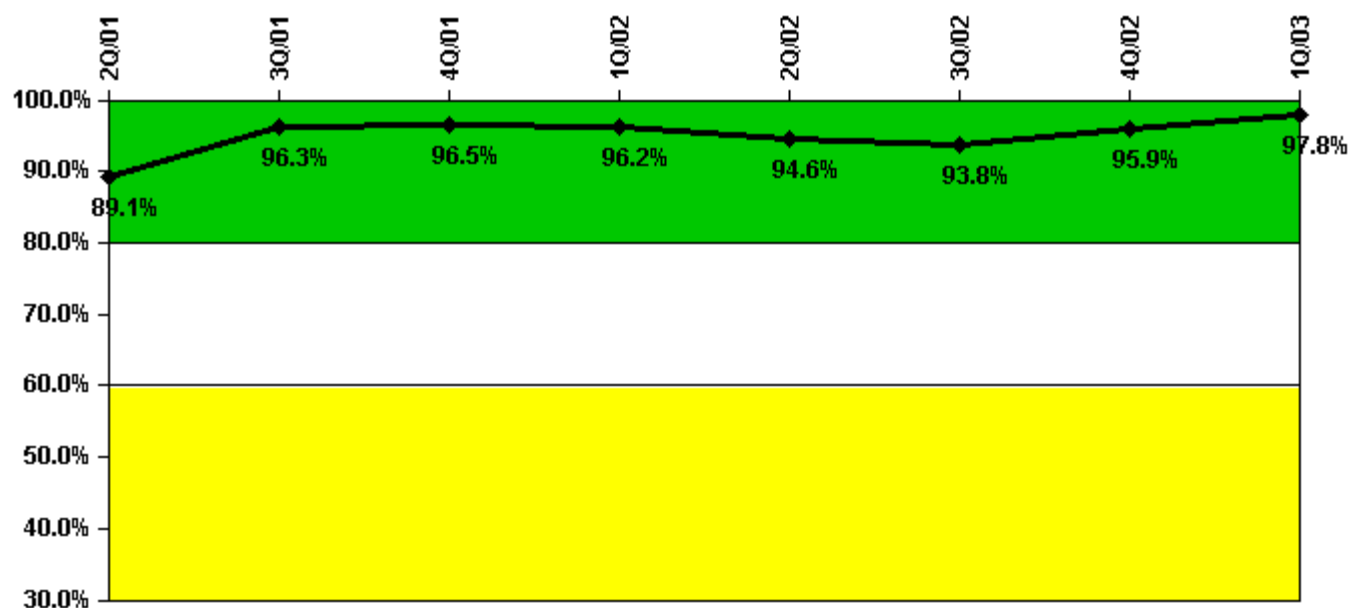
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful opportunities	49.0	39.0	27.0	40.0	55.0	54.0	18.0	14.0
Total opportunities	51.0	41.0	28.0	40.0	55.0	56.0	18.0	14.0
Indicator value	97.7%	97.3%	97.5%	97.9%	98.3%	97.4%	97.6%	97.7%

Licensee Comments: none

ERO Drill Participation



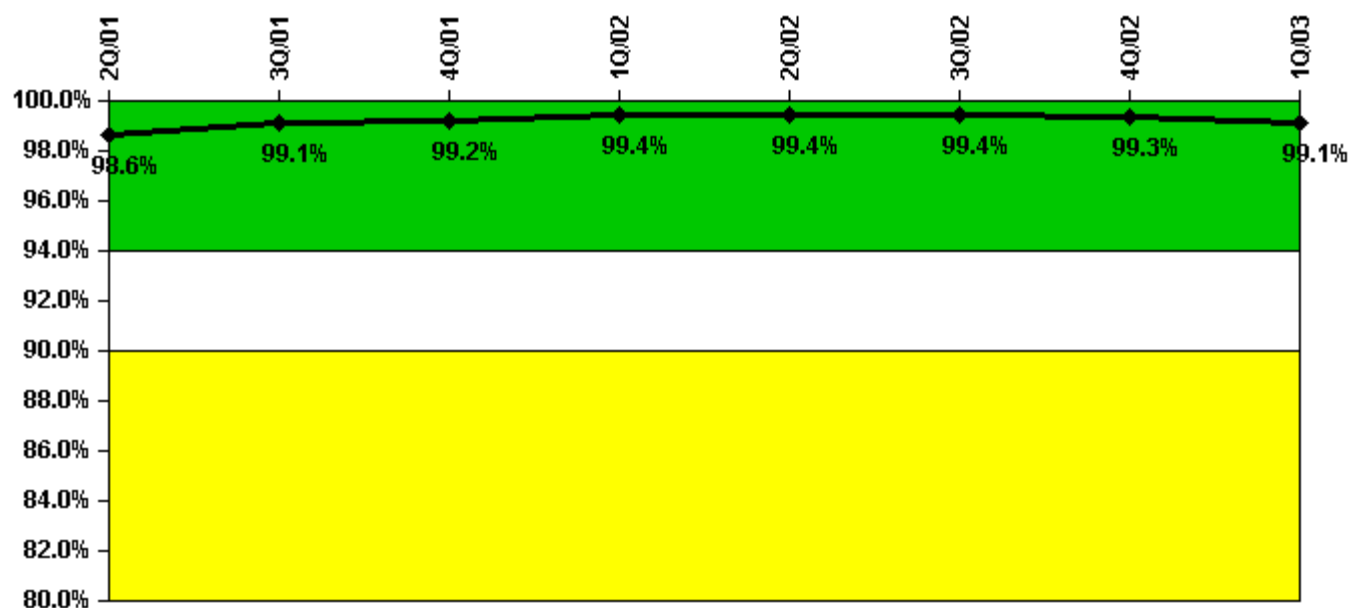
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Participating Key personnel	123.0	129.0	137.0	126.0	141.0	135.0	140.0	136.0
Total Key personnel	138.0	134.0	142.0	131.0	149.0	144.0	146.0	139.0
Indicator value	89.1%	96.3%	96.5%	96.2%	94.6%	93.8%	95.9%	97.8%

Licensee Comments: none

Alert & Notification System



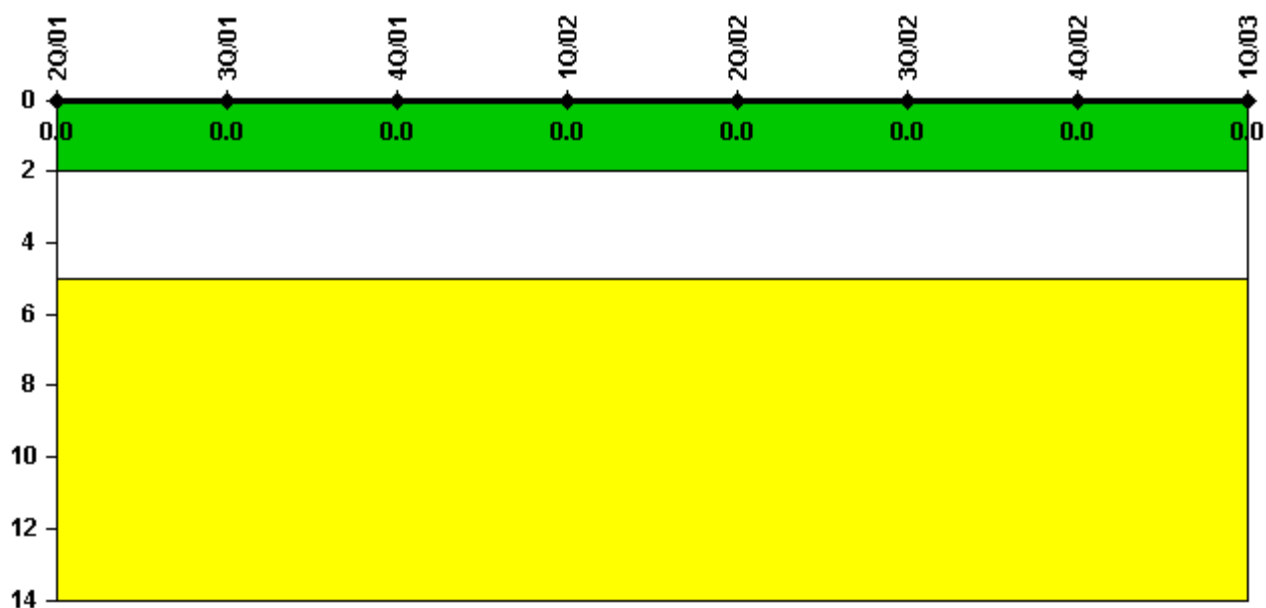
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful siren-tests	507	447	508	518	515	453	514	525
Total sirens-tests	512	448	512	520	520	455	520	530
Indicator value	98.6%	99.1%	99.2%	99.4%	99.4%	99.4%	99.3%	99.1%

Licensee Comments: none

Occupational Exposure Control Effectiveness

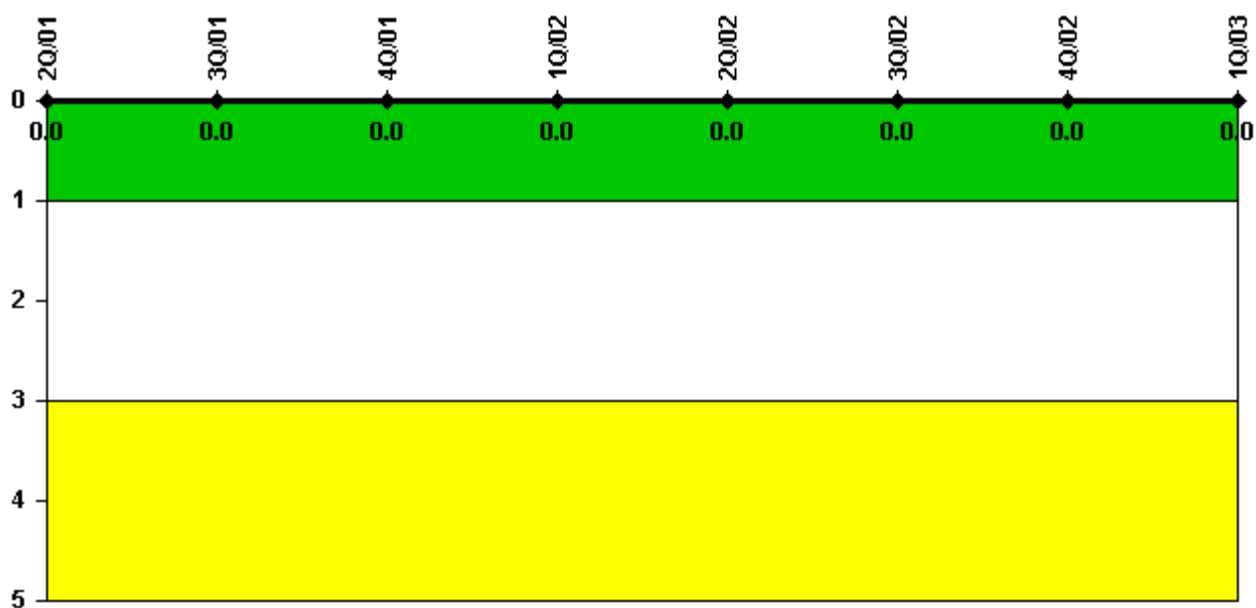


Thresholds: White > 2.0 Yellow > 5.0

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

RETS/ODCM Radiological Effluent

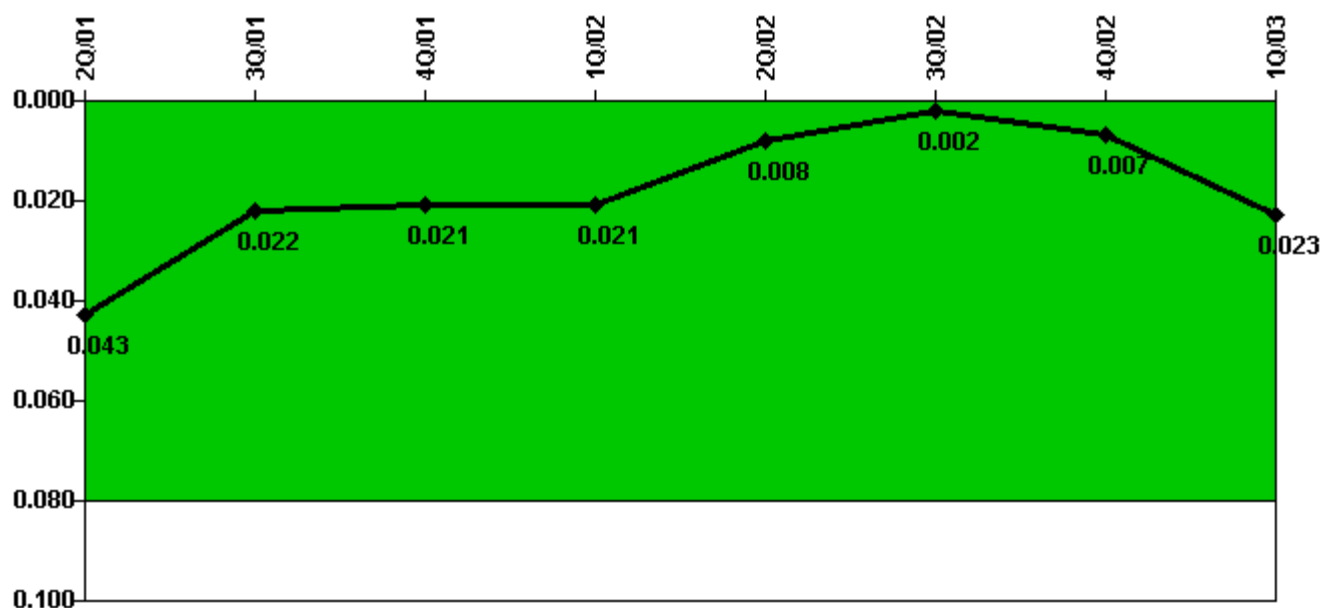
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



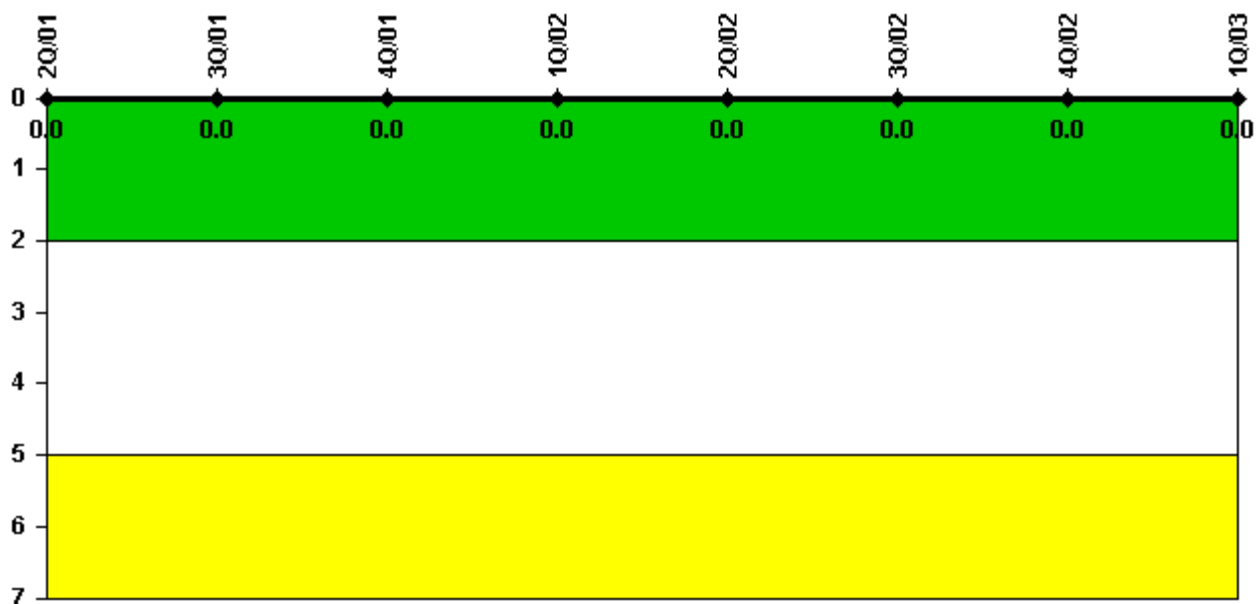
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
IDS compensatory hours	256.52	125.73	0	0	13.26	27.25	83.20	298.08
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.043	0.022	0.021	0.021	0.008	0.002	0.007	0.023

Licensee Comments: none

Personnel Screening Program



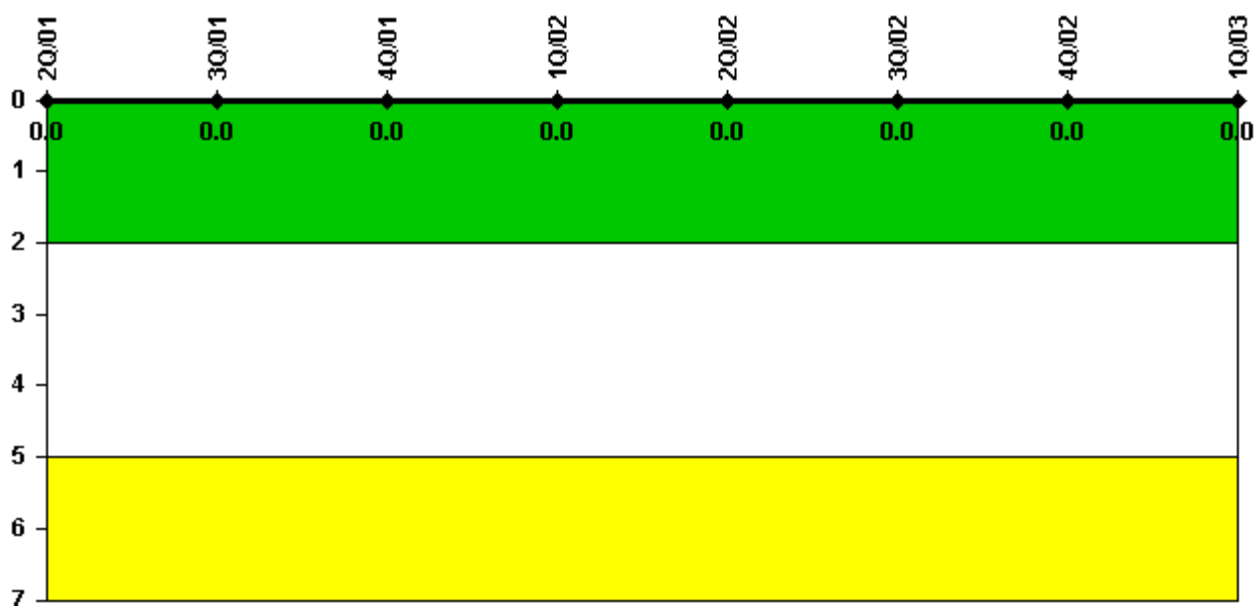
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Surry 1

2Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned scrams	0	0	0	0	0	0	2.0	1.0
Critical hours	2208.0	943.6	2160.0	2183.0	2208.0	2209.0	1869.5	855.8
Indicator value	0.8	0	0	0	0	0	1.7	2.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



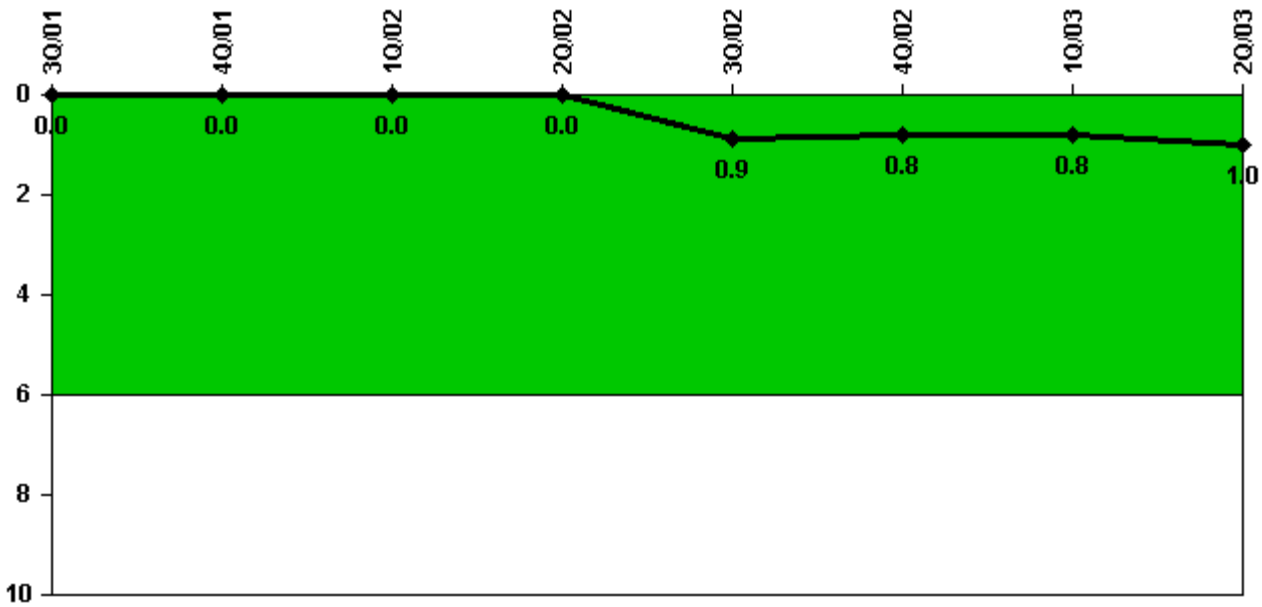
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



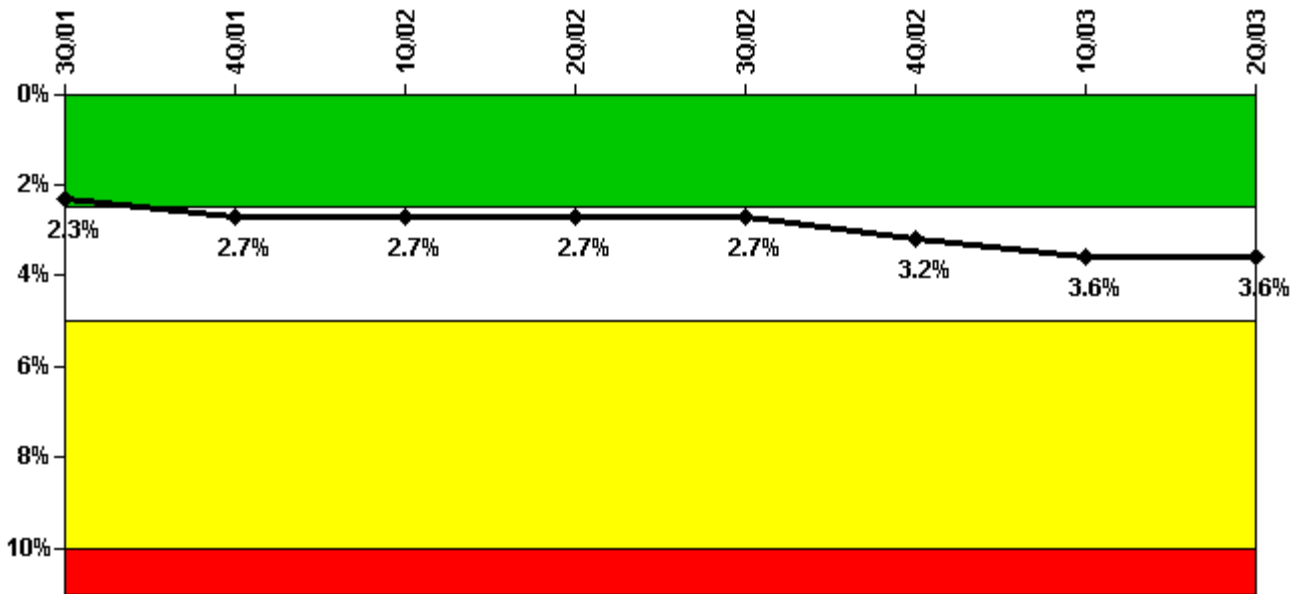
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2208.0	943.6	2160.0	2183.0	2208.0	2209.0	1869.5	855.8
Indicator value	0	0	0	0	0.9	0.8	0.8	1.0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



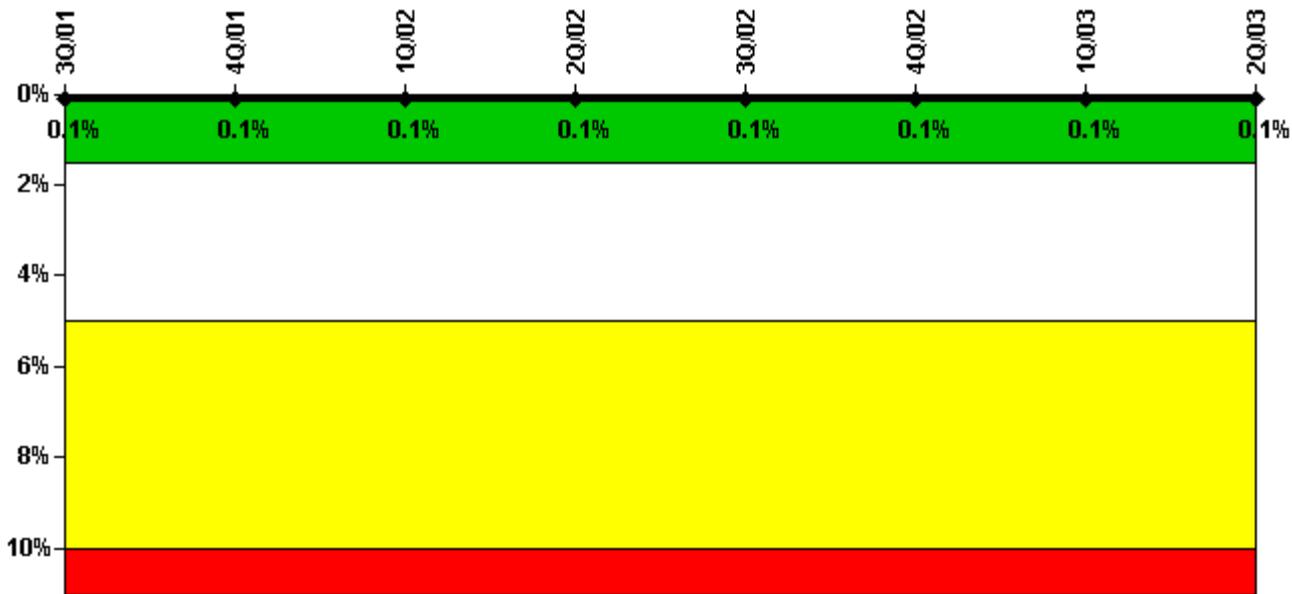
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	101.25	5.23	35.93	11.35	15.88	78.67	84.65	15.03
Unplanned unavailable hours	21.38	0.15	3.45	5.15	0	0	0	0
Fault exposure hours	0	237.77	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	994.68	2160.00	2183.00	2208.00	2209.00	1963.67	983.09
Train 2								
Planned unavailable hours	30.86	11.10	21.07	47.55	23.20	138.04	10.36	10.49
Unplanned unavailable hours	3.53	8.03	7.37	0	9.50	85.35	120.18	7.42
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	994.68	2160.00	2183.00	2208.00	2209.00	1963.67	983.09
Indicator value	2.3%	2.7%	2.7%	2.7%	2.7%	3.2%	3.6%	3.6%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



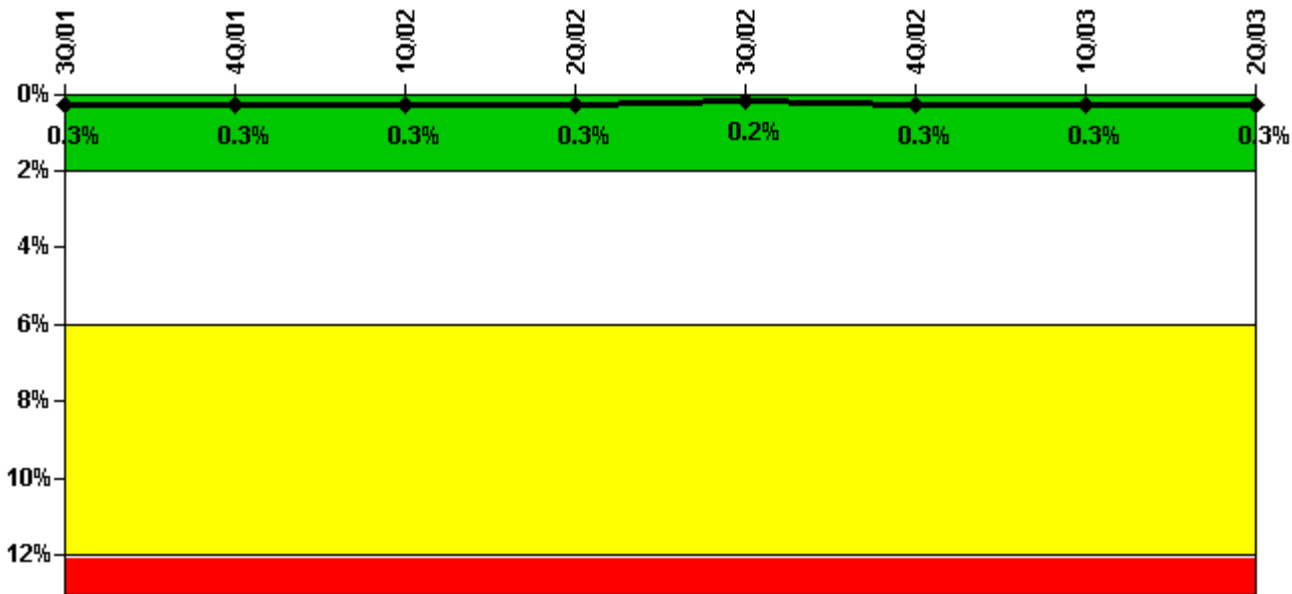
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	0	0	0	0	0	0.57	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	994.70	2160.00	2183.00	2208.00	2209.00	2160.00	1048.50
Train 2								
Planned unavailable hours	2.50	0.70	1.10	4.20	3.06	0.32	1.83	21.50
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	994.70	2160.00	2183.00	2208.00	2209.00	2160.00	1048.50
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



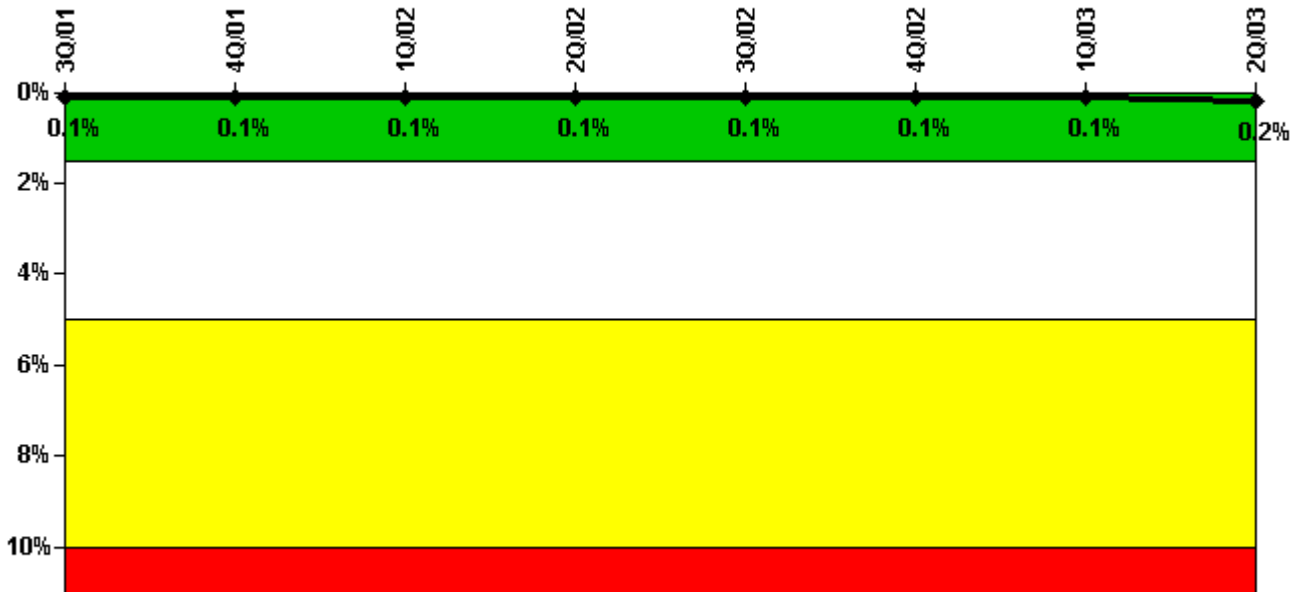
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	12.20	0.20	10.80	0.90	1.80	2.78	0.88	2.90
Unplanned unavailable hours	0	0	0	0	0	10.90	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	994.70	2160.00	2183.00	2208.00	2209.00	2160.00	1164.50
Train 2								
Planned unavailable hours	1.60	1.00	0.90	8.30	1.47	1.38	1.20	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	994.70	2160.00	2183.00	2208.00	2209.00	2160.00	1164.50
Train 3								
Planned unavailable hours	1.40	0	1.40	16.10	0.75	3.18	2.50	0
Unplanned unavailable hours	0	0	0	0	0	0	71.30	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	2208.00	994.70	2160.00	2183.00	2208.00	2209.00	1951.00	981.50
Indicator value	0.3%	0.3%	0.3%	0.3%	0.2%	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%

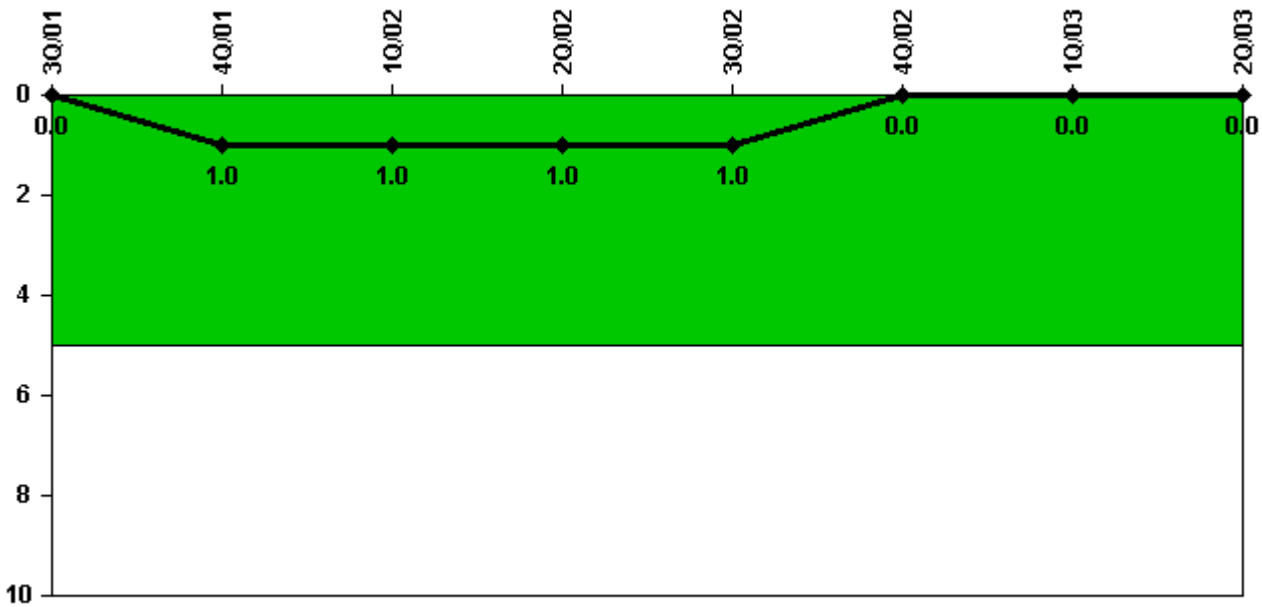
Notes

Safety System Unavailability, Residual Heat Removal System	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	11.50	0.20	4.90	1.44	0.07	0.08	15.91	0.30
Unplanned unavailable hours	0	0	0.40	0	0	0	0	0
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	1771.80	2160.00	2183.00	2208.00	2209.00	1870.00	867.00
Train 2								
Planned unavailable hours	0.50	0.20	0.60	1.12	1.30	0.07	23.02	51.80
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	1771.80	2160.00	2183.00	2208.00	2209.00	1870.00	867.00
Train 3								
Planned unavailable hours	0	9.40	0	0	0	0	0	8.35
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1963.30	2160.00	2183.00	2208.00	2209.00	2042.00	1437.50
Train 4								
Planned unavailable hours	0	9.40	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	2208.00	1963.30	2160.00	2183.00	2208.00	2209.00	2042.00	1437.50
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)



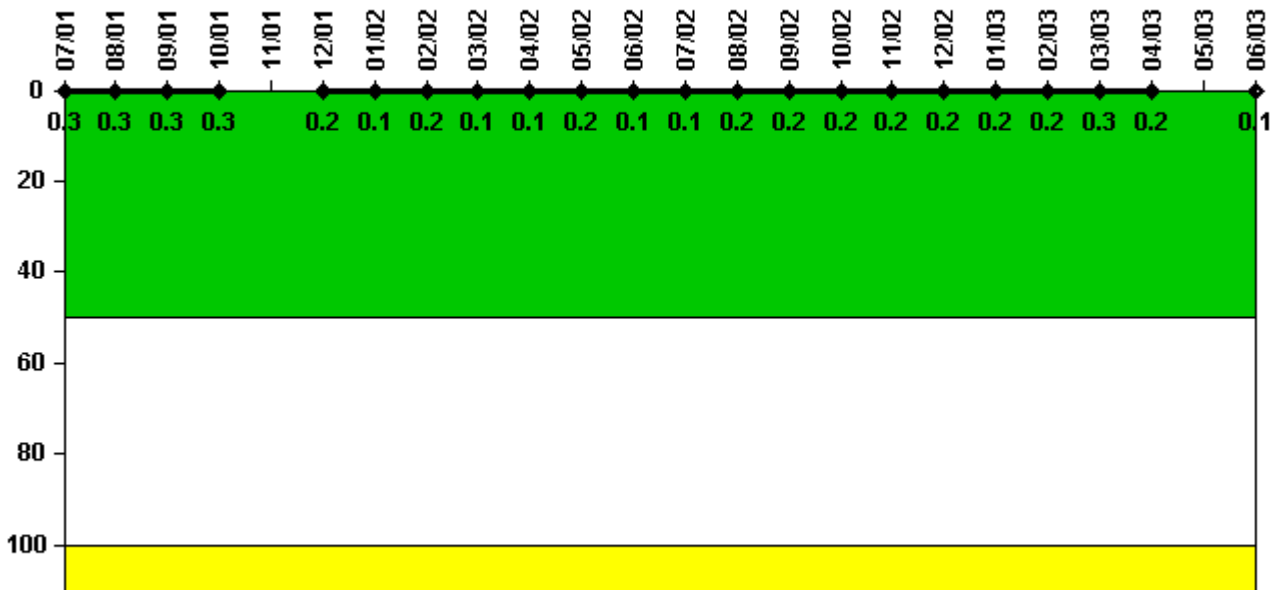
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

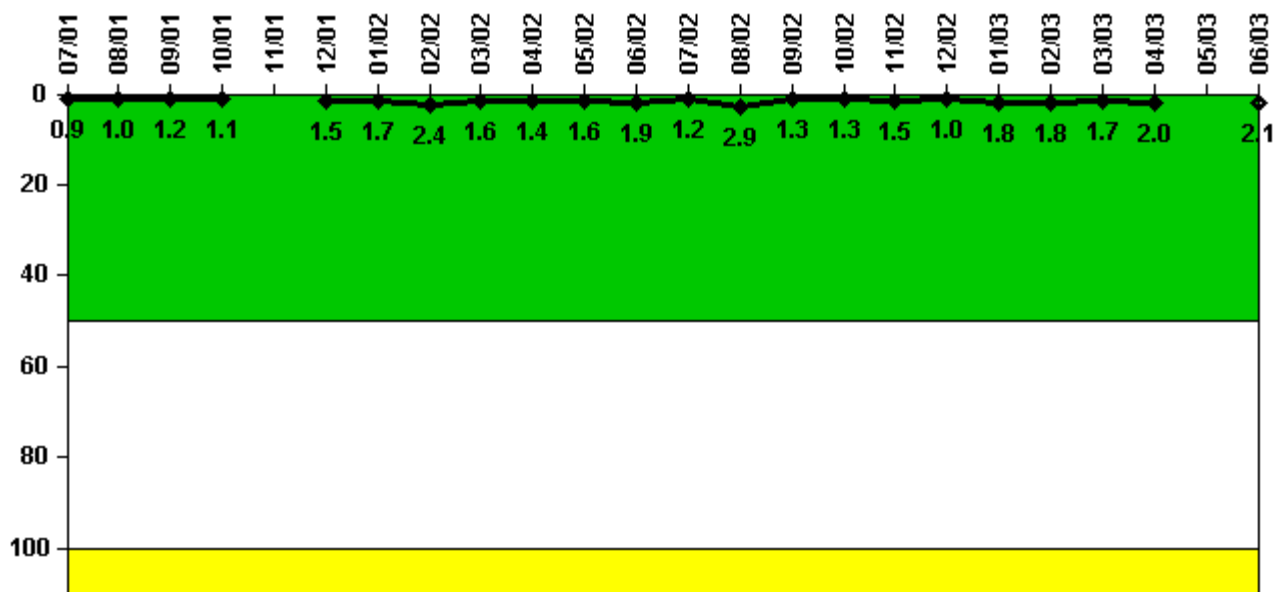
Notes

Reactor Coolant System Activity	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	0.002630	0.002840	0.003020	0.002670	N/A	0.001550	0.001060	0.001650	0.001200	0.001200	0.001500	0.001410
Technical specification limit	1.0	1.0	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	N/A	0.2	0.1	0.2	0.1	0.1	0.2	0.1

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	0.001390	0.002360	0.001630	0.001700	0.001780	0.001920	0.001870	0.001920	0.002810	0.002100	N/A	0.000956
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	N/A	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

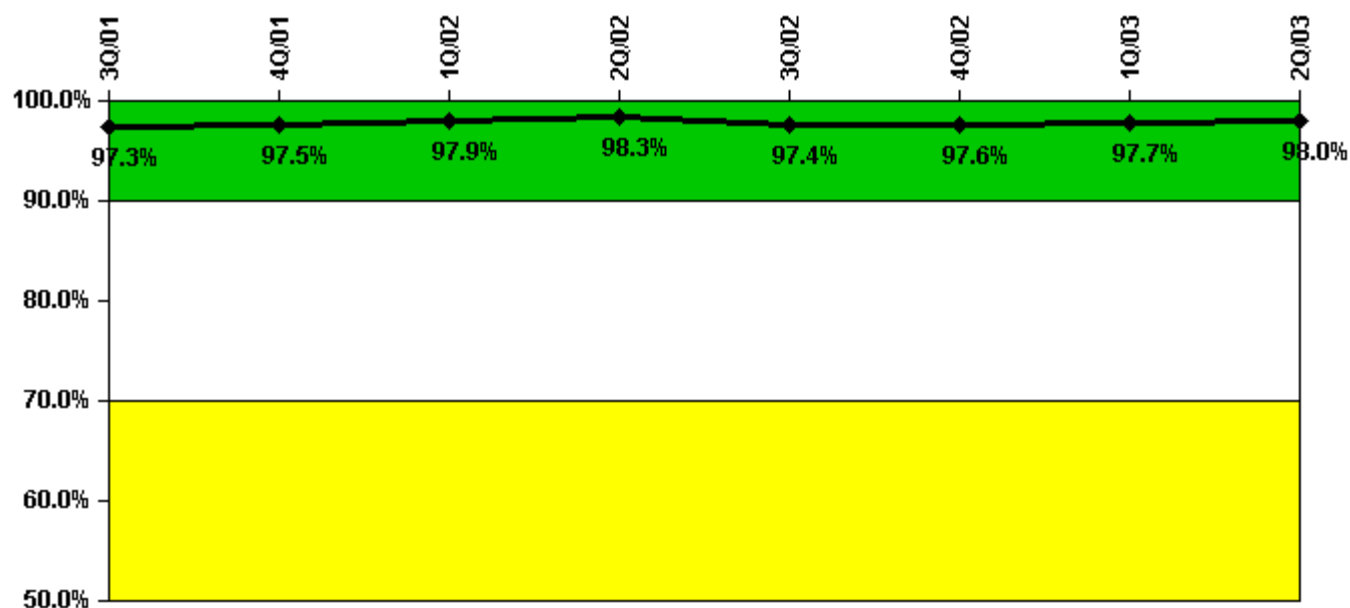
Notes

Reactor Coolant System Leakage	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum leakage	0.090	0.100	0.120	0.110	N/A	0.150	0.170	0.240	0.160	0.140	0.160	0.190
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.9	1.0	1.2	1.1	N/A	1.5	1.7	2.4	1.6	1.4	1.6	1.9

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	0.120	0.290	0.130	0.130	0.150	0.100	0.180	0.180	0.170	0.200	N/A	0.210
Technical specification limit	10.0	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	2.9	1.3	1.3	1.5	1.0	1.8	1.8	1.7	2.0	N/A	2.1

Licensee Comments: none

Drill/Exercise Performance



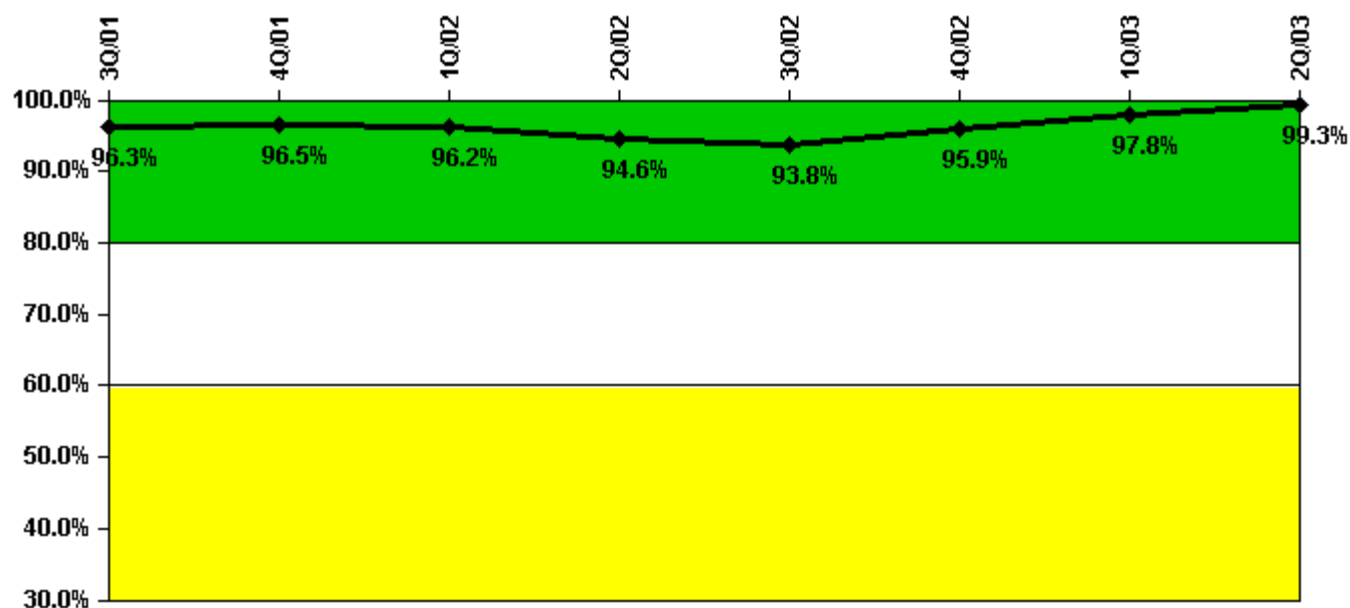
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Successful opportunities	39.0	27.0	40.0	55.0	54.0	18.0	14.0	48.0
Total opportunities	41.0	28.0	40.0	55.0	56.0	18.0	14.0	49.0
Indicator value	97.3%	97.5%	97.9%	98.3%	97.4%	97.6%	97.7%	98.0%

Licensee Comments: none

ERO Drill Participation



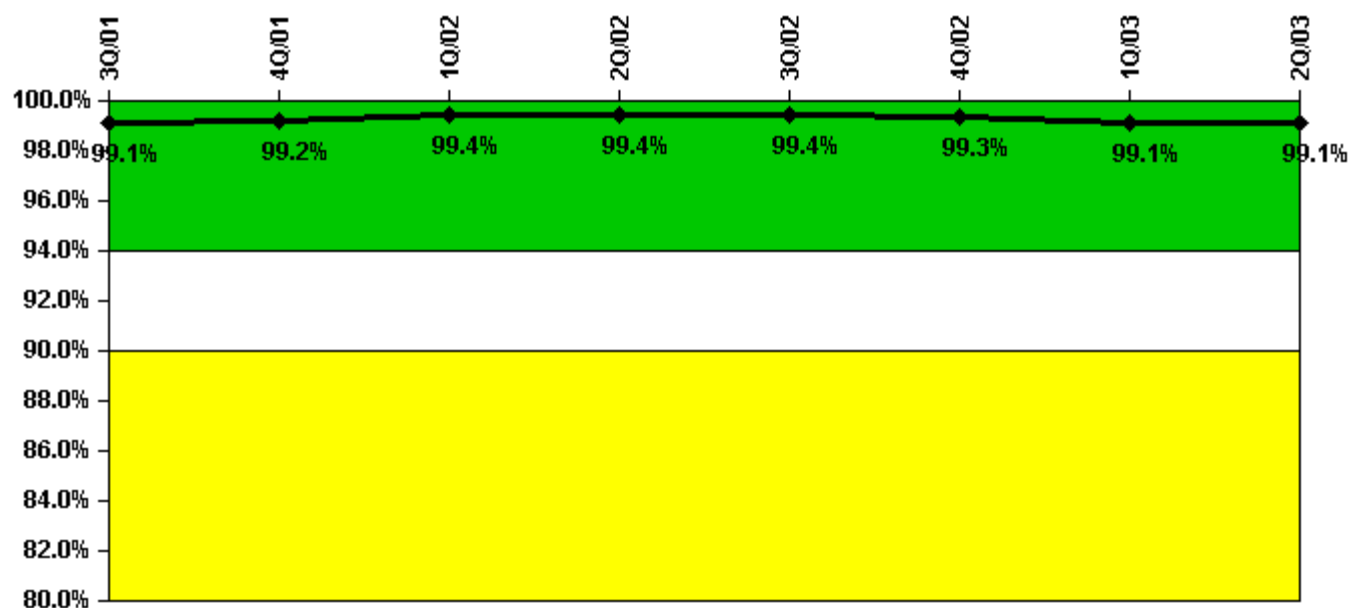
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Participating Key personnel	129.0	137.0	126.0	141.0	135.0	140.0	136.0	137.0
Total Key personnel	134.0	142.0	131.0	149.0	144.0	146.0	139.0	138.0
Indicator value	96.3%	96.5%	96.2%	94.6%	93.8%	95.9%	97.8%	99.3%

Licensee Comments: none

Alert & Notification System



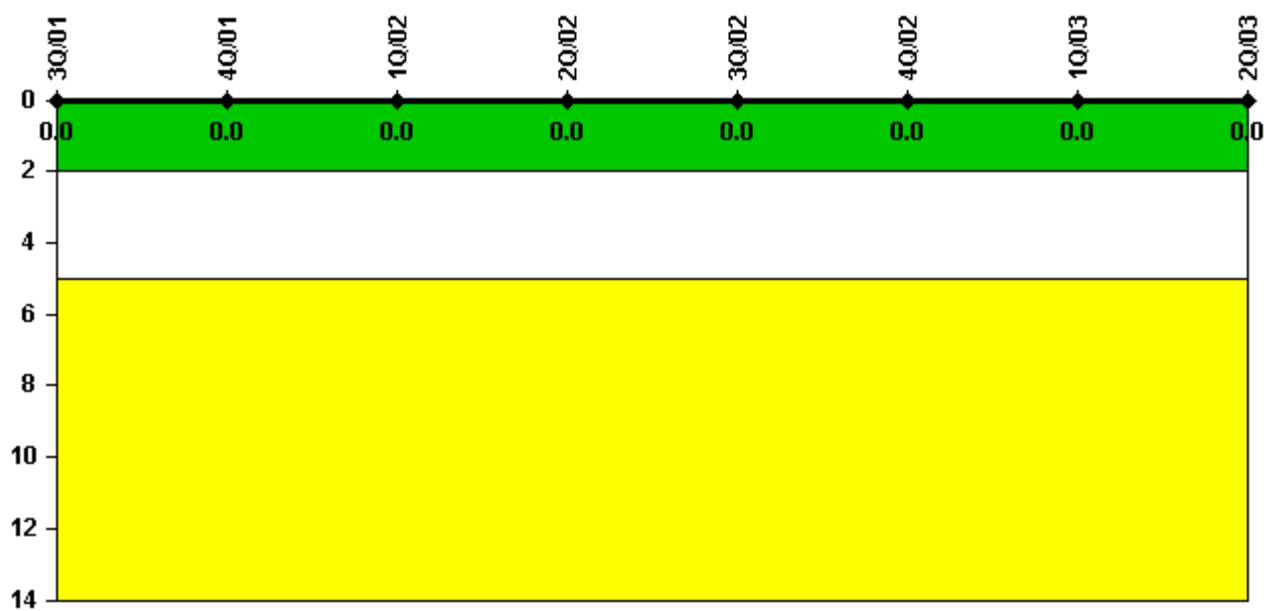
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Successful siren-tests	447	508	518	515	453	514	525	531
Total sirens-tests	448	512	520	520	455	520	530	536
Indicator value	99.1%	99.2%	99.4%	99.4%	99.4%	99.3%	99.1%	99.1%

Licensee Comments: none

Occupational Exposure Control Effectiveness

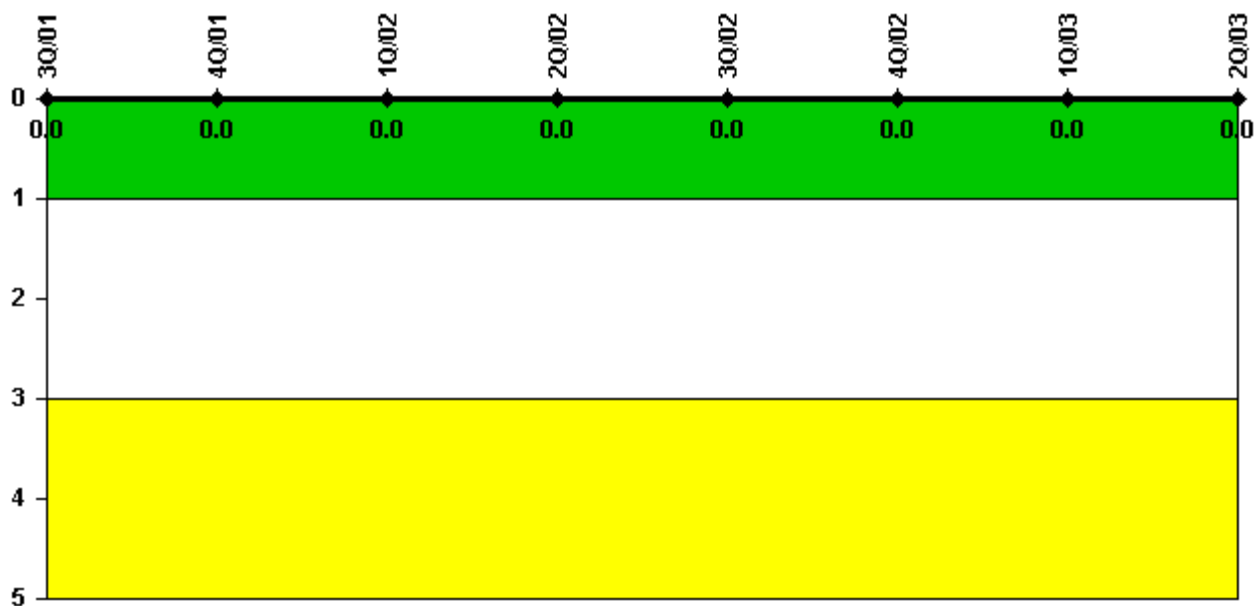


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

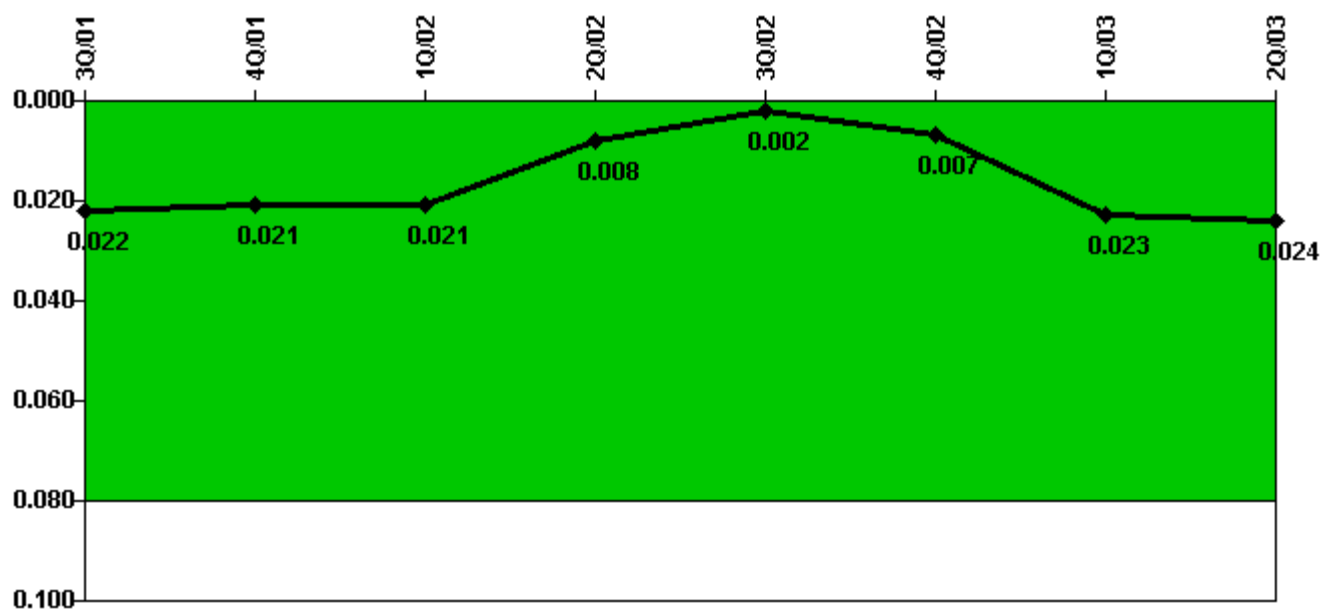
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



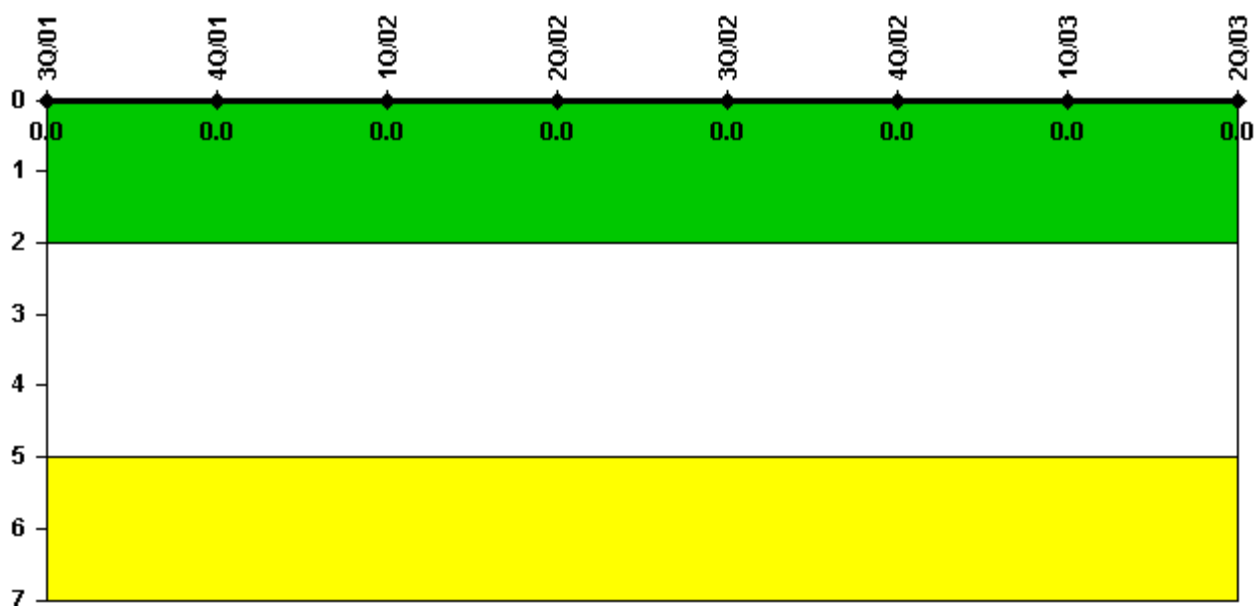
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
IDS compensatory hours	125.73	0	0	13.26	27.25	83.20	298.08	32.60
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.022	0.021	0.021	0.008	0.002	0.007	0.023	0.024

Licensee Comments: none

Personnel Screening Program



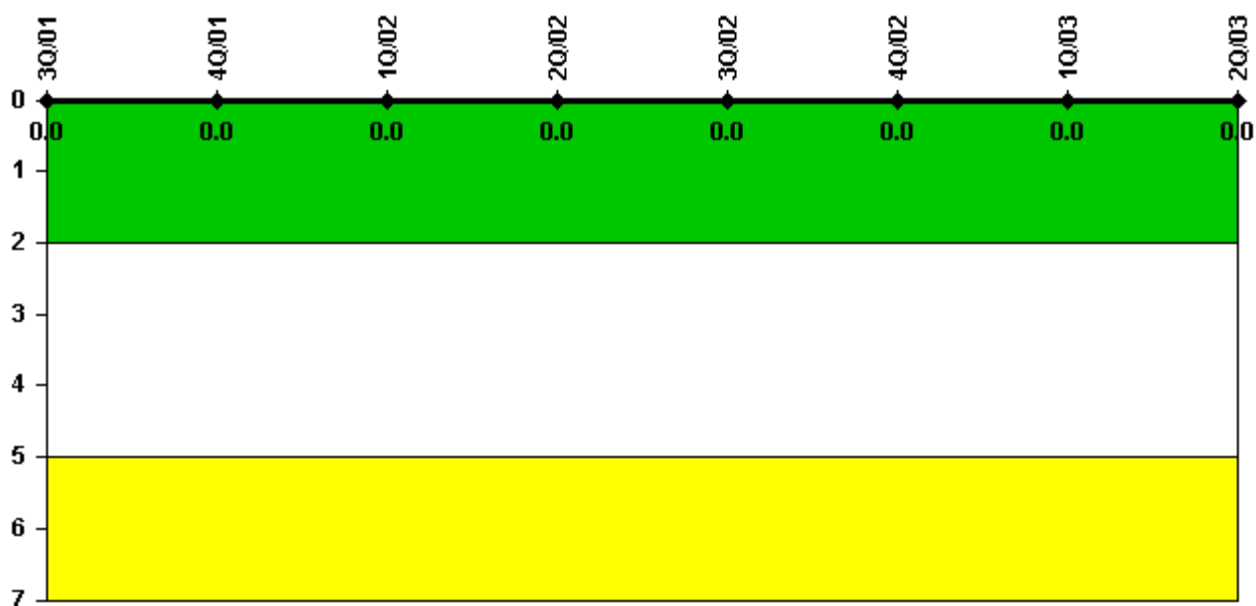
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

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

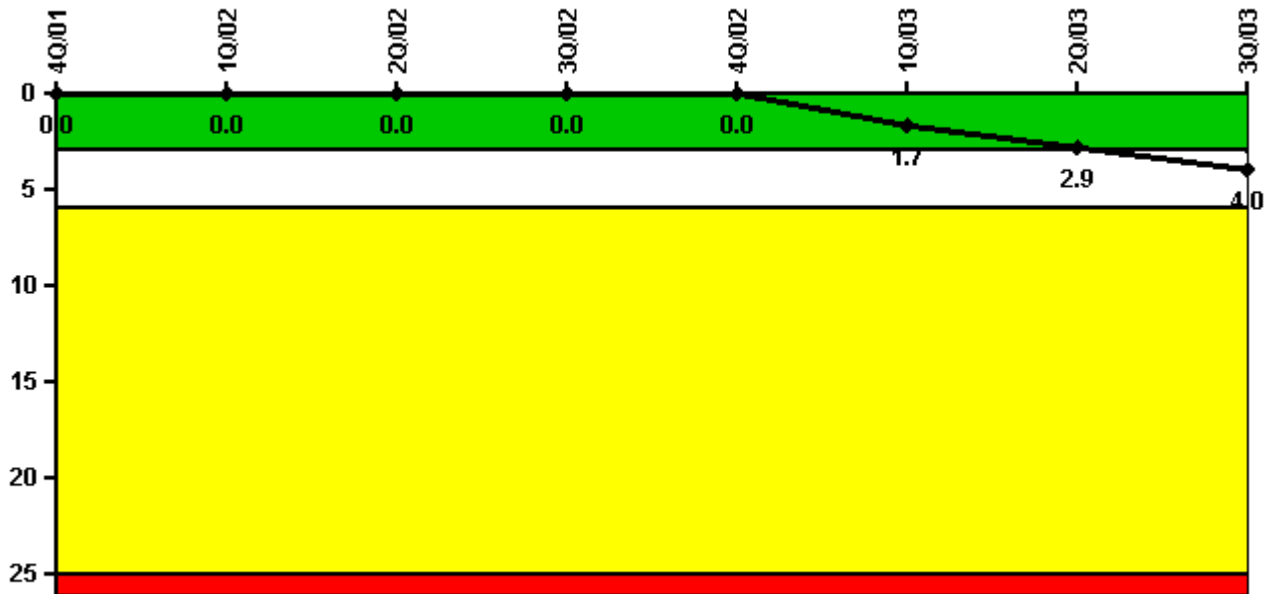
Last Modified: July 22, 2003

Surry 1

3Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned scrams	0	0	0	0	0	2.0	1.0	1.0
Critical hours	943.6	2160.0	2183.0	2208.0	2209.0	1869.5	855.8	2147.7
Indicator value	0	0	0	0	0	1.7	2.9	4.0

Licensee Comments:

3Q/03: Unit 1 unplanned scram due to loss of power to circulating water pumps during weather conditions associated with Hurricane Isabel.

Scrams with Loss of Normal Heat Removal



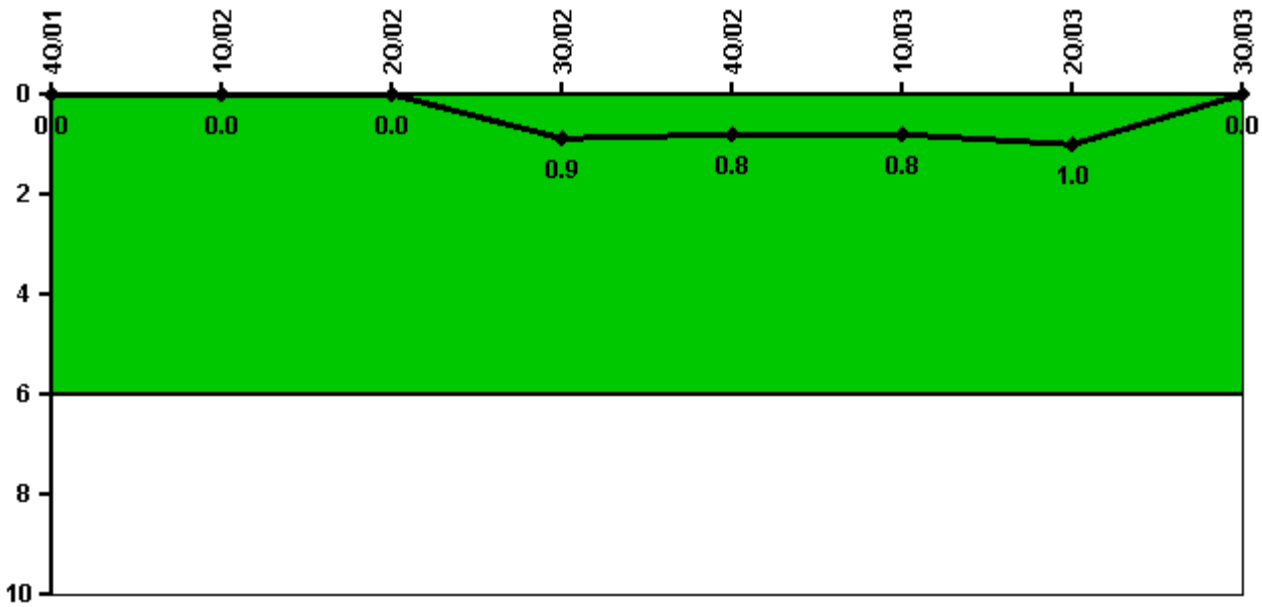
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

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	1.0
Indicator value	0	0	0	0	0	0	0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



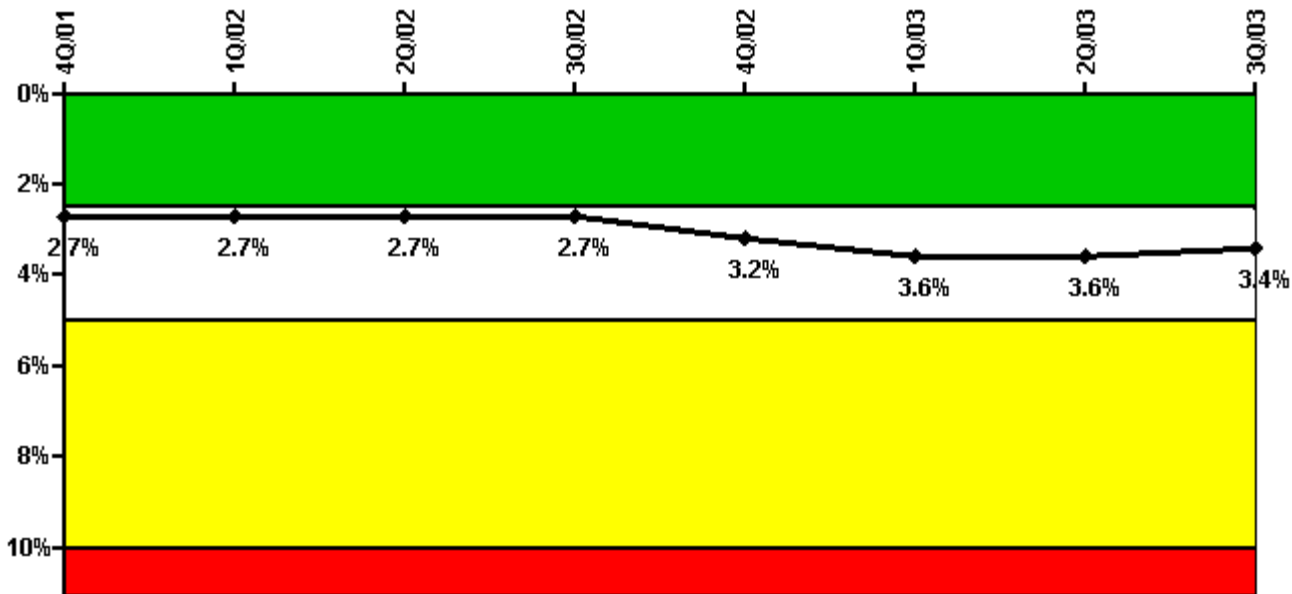
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	943.6	2160.0	2183.0	2208.0	2209.0	1869.5	855.8	2147.7
Indicator value	0	0	0	0.9	0.8	0.8	1.0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

Notes

Safety System Unavailability, Emergency AC Power	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	5.23	35.93	11.35	15.88	78.67	84.65	15.03	12.37
Unplanned unavailable hours	0.15	3.45	5.15	0	0	0	0	2.95
Fault exposure hours	237.77	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	994.68	2160.00	2183.00	2208.00	2209.00	1963.67	983.09	2208.00
Train 2								
Planned unavailable hours	11.10	21.07	47.55	23.20	138.04	10.36	10.49	18.78
Unplanned unavailable hours	8.03	7.37	0	9.50	85.35	120.18	7.42	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	994.68	2160.00	2183.00	2208.00	2209.00	1963.67	983.09	2208.00
Indicator value	2.7%	2.7%	2.7%	2.7%	3.2%	3.6%	3.6%	3.4%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



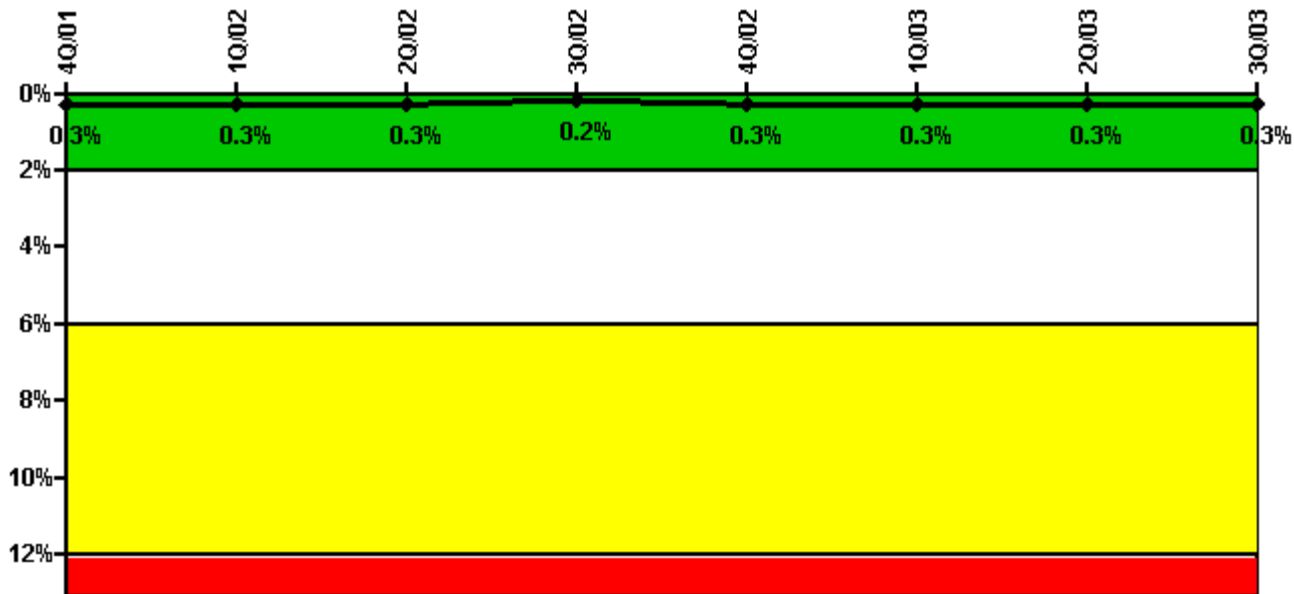
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0	0	0	0	0.57	0	0	1.65
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	994.70	2160.00	2183.00	2208.00	2209.00	2160.00	1048.50	2208.00
Train 2								
Planned unavailable hours	0.70	1.10	4.20	3.06	0.32	1.83	21.50	1.27
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	994.70	2160.00	2183.00	2208.00	2209.00	2160.00	1048.50	2208.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0.20	10.80	0.90	1.80	2.78	0.88	2.90	2.03
Unplanned unavailable hours	0	0	0	0	10.90	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	994.70	2160.00	2183.00	2208.00	2209.00	2160.00	1164.50	2208.00
Train 2								
Planned unavailable hours	1.00	0.90	8.30	1.47	1.38	1.20	0	1.05
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	994.70	2160.00	2183.00	2208.00	2209.00	2160.00	1164.50	2208.00
Train 3								
Planned unavailable hours	0	1.40	16.10	0.75	3.18	2.50	0	12.00
Unplanned unavailable hours	0	0	0	0	0	71.30	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	994.70	2160.00	2183.00	2208.00	2209.00	1951.00	981.50	2208.00
Indicator value	0.3%	0.3%	0.3%	0.2%	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%

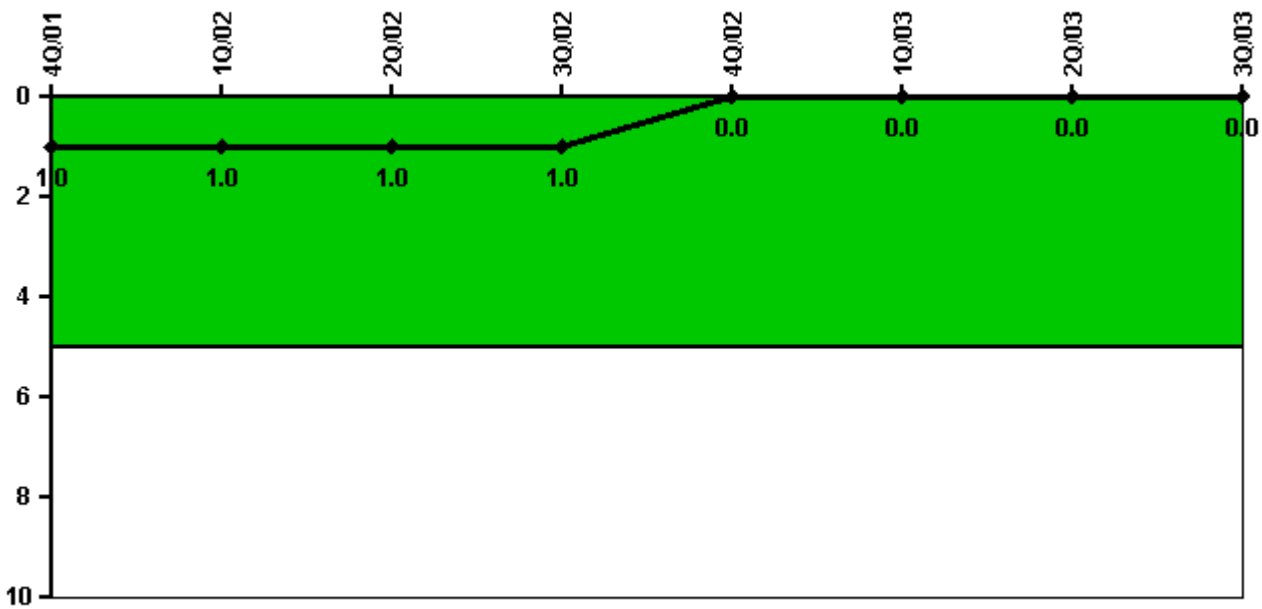
Notes

Safety System Unavailability, Residual Heat Removal System	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0.20	4.90	1.44	0.07	0.08	15.91	0.30	0.13
Unplanned unavailable hours	0	0.40	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1771.80	2160.00	2183.00	2208.00	2209.00	1870.00	867.00	2208.00
Train 2								
Planned unavailable hours	0.20	0.60	1.12	1.30	0.07	23.02	51.80	5.90
Unplanned unavailable hours	0	0	0	0	0	0	0	0.32
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1771.80	2160.00	2183.00	2208.00	2209.00	1870.00	867.00	2208.00
Train 3								
Planned unavailable hours	9.40	0	0	0	0	0	8.35	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	1963.30	2160.00	2183.00	2208.00	2209.00	2042.00	1437.50	2208.00
Train 4								
Planned unavailable hours	9.40	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	1963.30	2160.00	2183.00	2208.00	2209.00	2042.00	1437.50	2208.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)



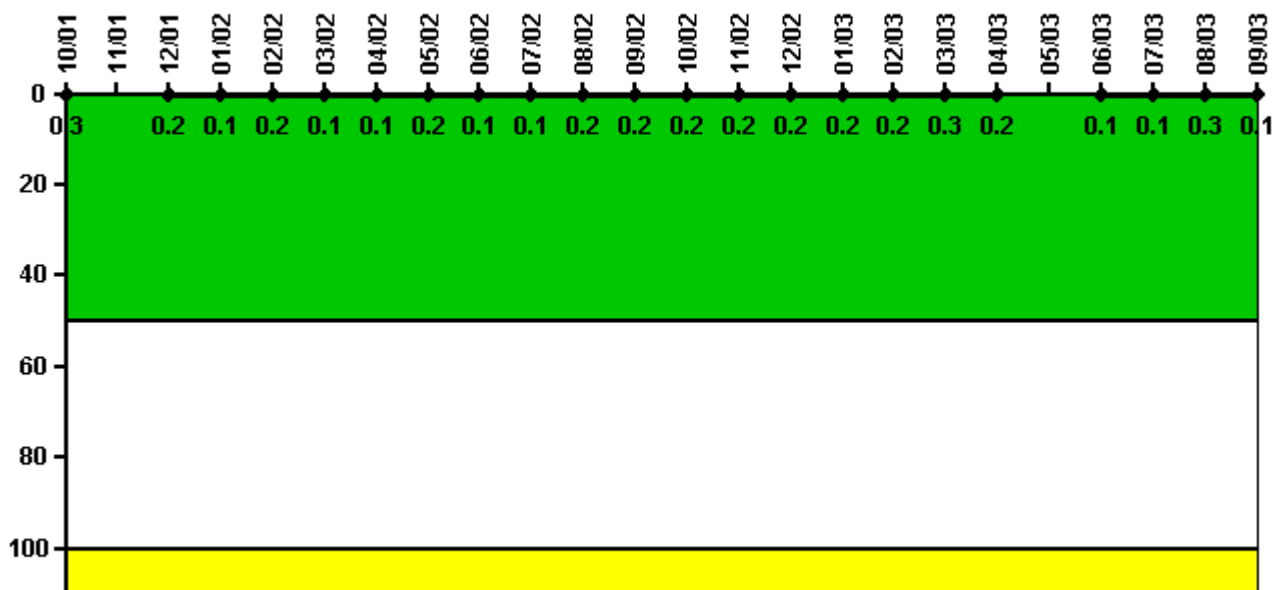
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

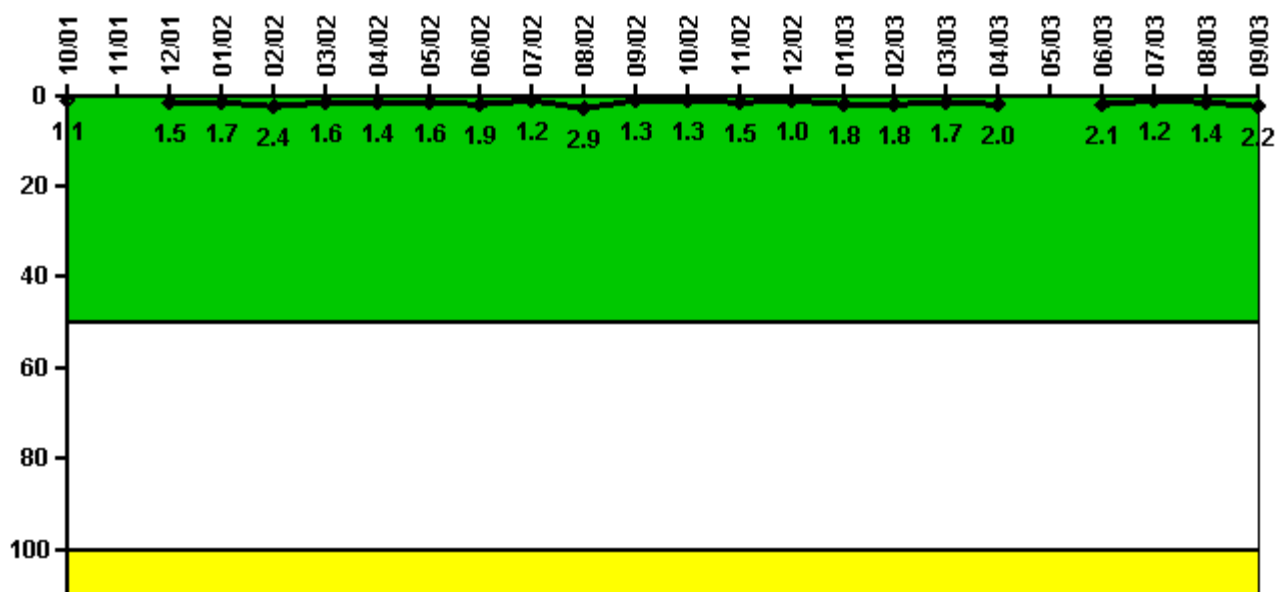
Notes

Reactor Coolant System Activity	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	0.002670	N/A	0.001550	0.001060	0.001650	0.001200	0.001200	0.001500	0.001410	0.001390	0.002360	0.001630
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.3	N/A	0.2	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.2

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	0.001700	0.001780	0.001920	0.001870	0.001920	0.002810	0.002100	N/A	0.000956	0.001080	0.002690	0.001380
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0.2	0.2	0.3	0.2	N/A	0.1	0.1	0.3	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

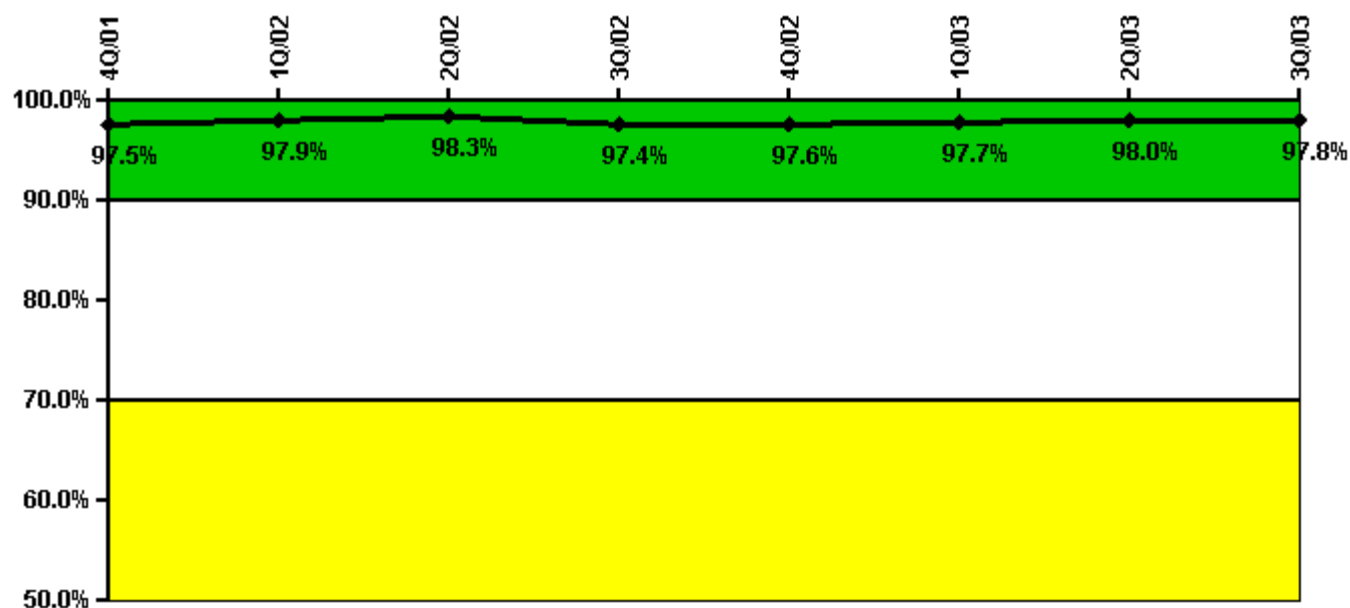
Notes

Reactor Coolant System Leakage	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum leakage	0.110	N/A	0.150	0.170	0.240	0.160	0.140	0.160	0.190	0.120	0.290	0.130
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.1	N/A	1.5	1.7	2.4	1.6	1.4	1.6	1.9	1.2	2.9	1.3

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	0.130	0.150	0.100	0.180	0.180	0.170	0.200	N/A	0.210	0.120	0.140	0.220
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.5	1.0	1.8	1.8	1.7	2.0	N/A	2.1	1.2	1.4	2.2

Licensee Comments: none

Drill/Exercise Performance



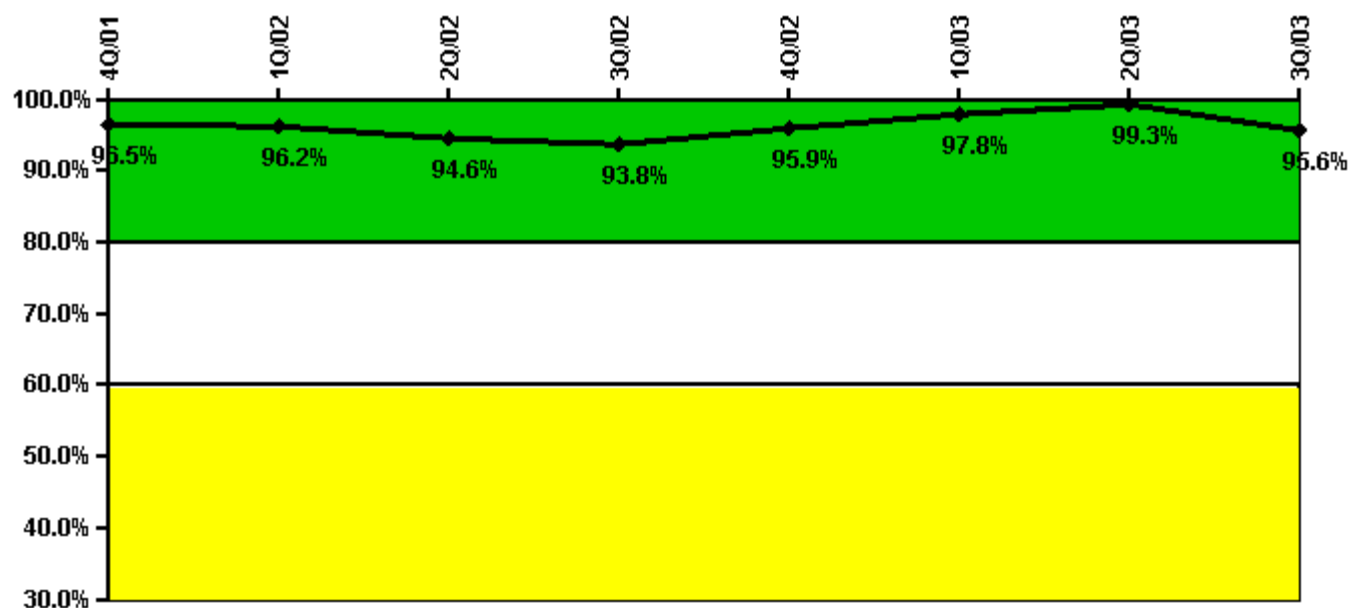
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Successful opportunities	27.0	40.0	55.0	54.0	18.0	14.0	48.0	51.0
Total opportunities	28.0	40.0	55.0	56.0	18.0	14.0	49.0	54.0
Indicator value	97.5%	97.9%	98.3%	97.4%	97.6%	97.7%	98.0%	97.8%

Licensee Comments: none

ERO Drill Participation



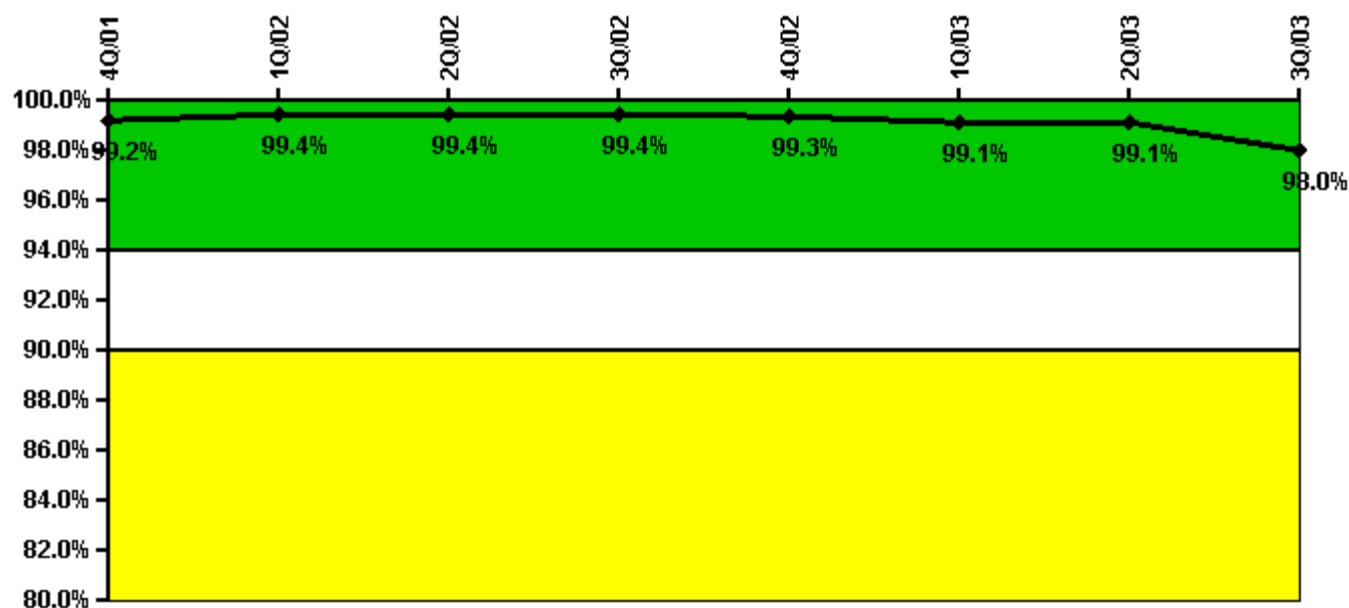
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Participating Key personnel	137.0	126.0	141.0	135.0	140.0	136.0	137.0	152.0
Total Key personnel	142.0	131.0	149.0	144.0	146.0	139.0	138.0	159.0
Indicator value	96.5%	96.2%	94.6%	93.8%	95.9%	97.8%	99.3%	95.6%

Licensee Comments: none

Alert & Notification System



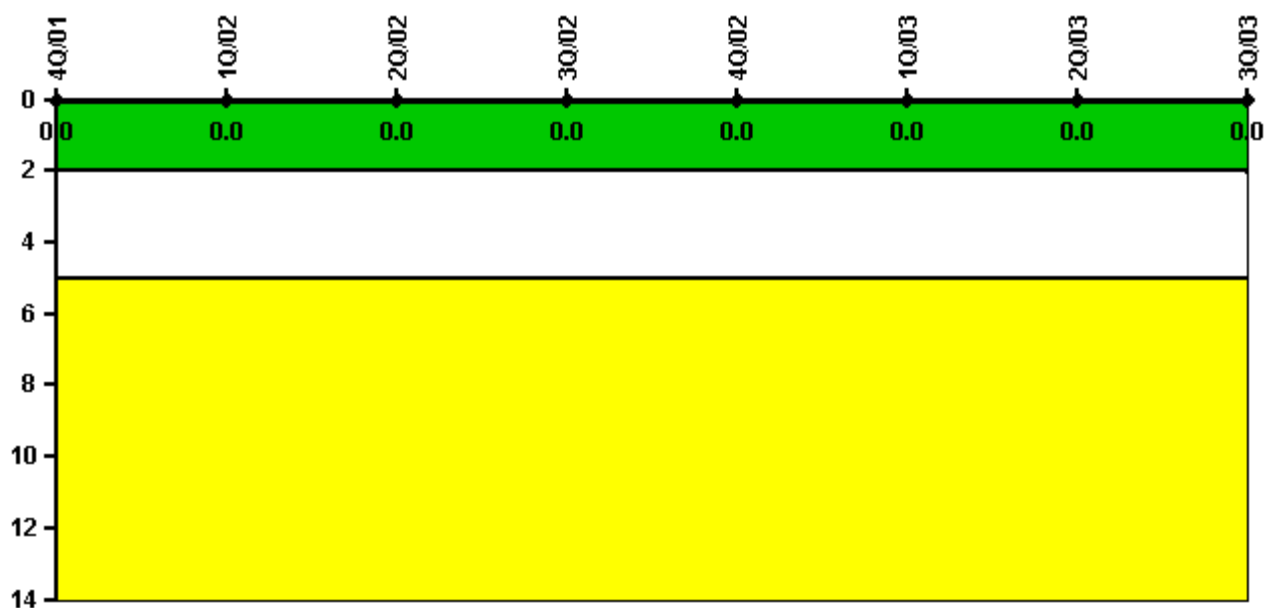
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Successful siren-tests	508	518	515	453	514	525	531	510
Total sirens-tests	512	520	520	455	520	530	536	536
Indicator value	99.2%	99.4%	99.4%	99.4%	99.3%	99.1%	99.1%	98.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness

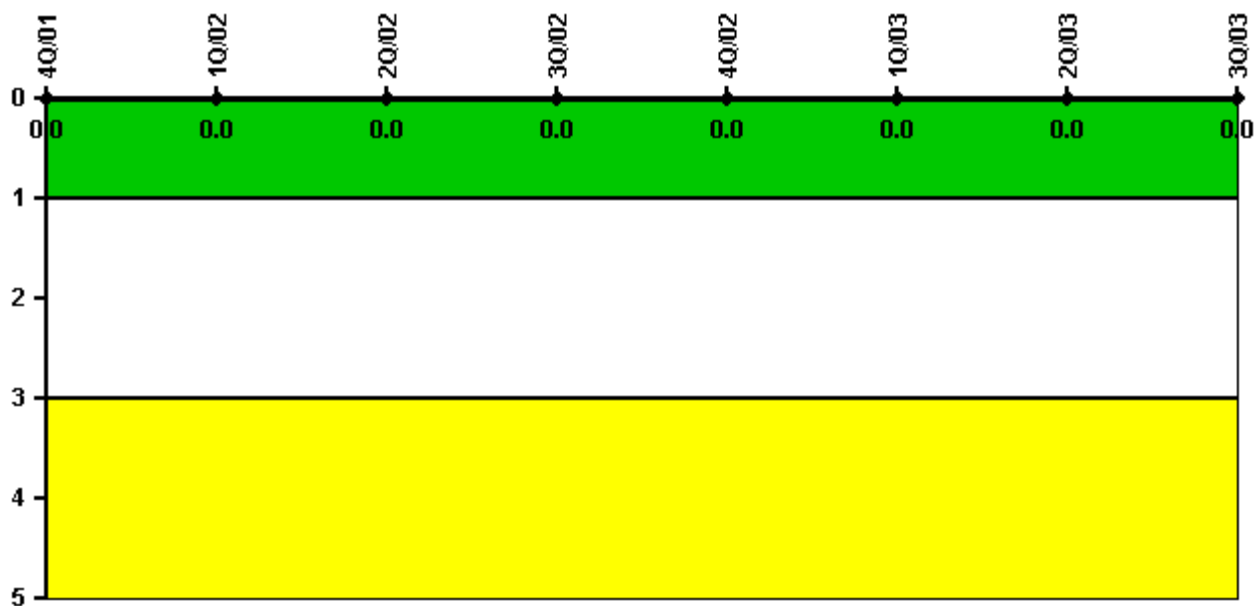


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
High radiation area occurrences	0	0	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

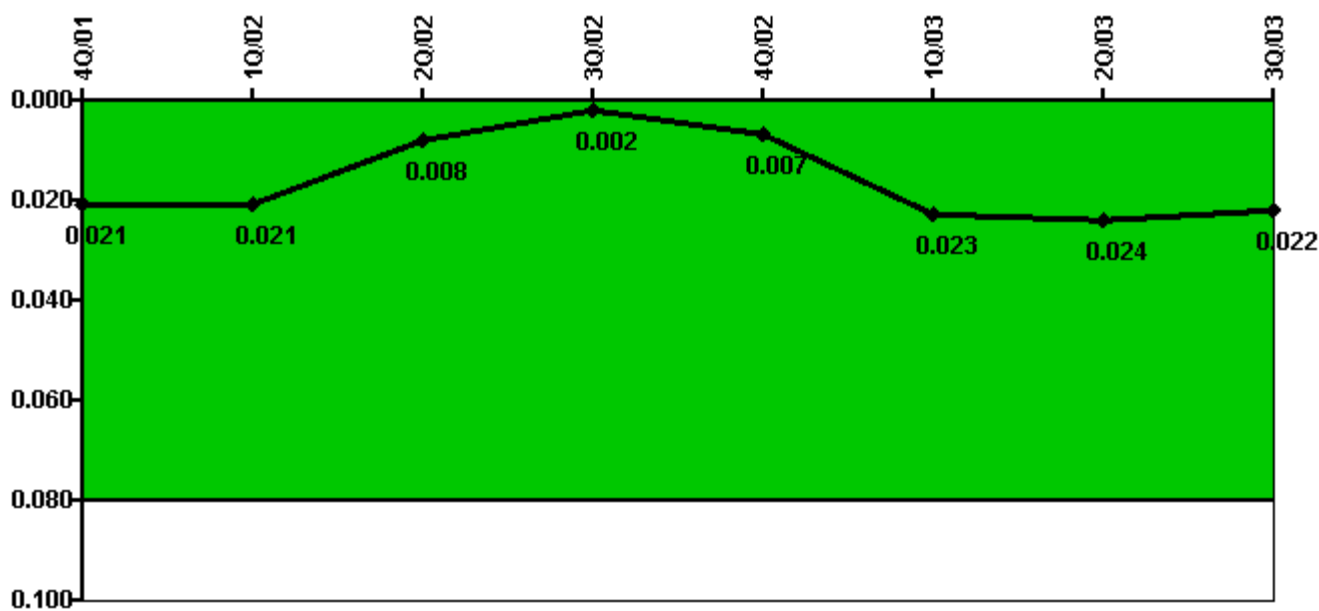
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/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



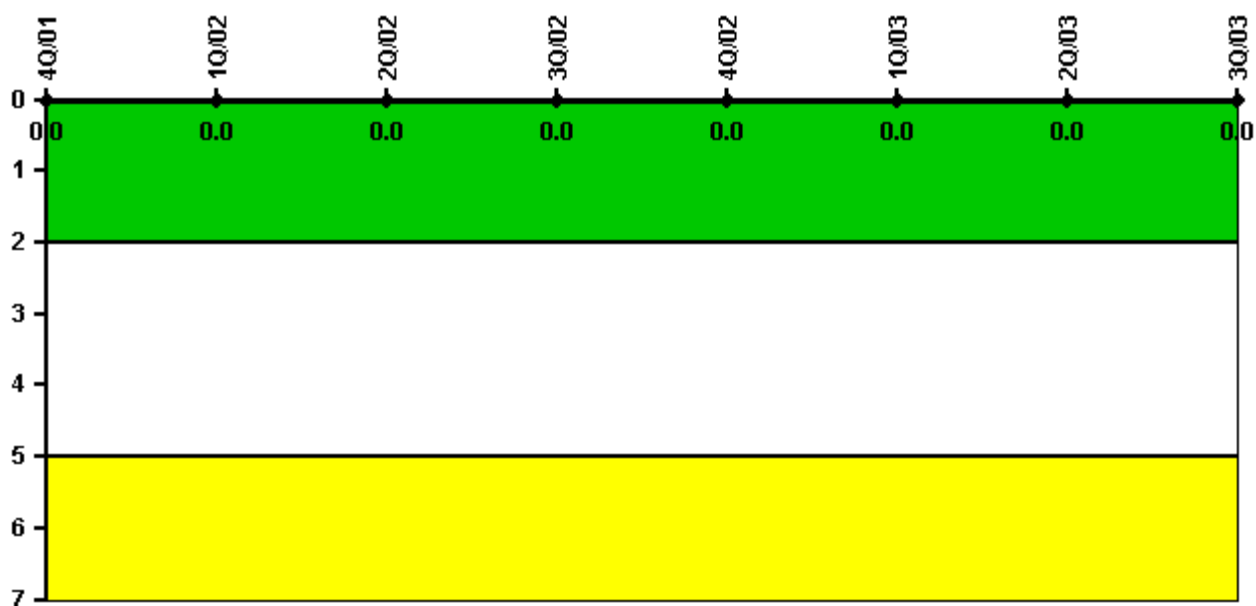
Thresholds: White > 0.080

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	0	13.26	27.25	83.20	298.08	32.60	0
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.021	0.021	0.008	0.002	0.007	0.023	0.024	0.022

Licensee Comments: none

Personnel Screening Program



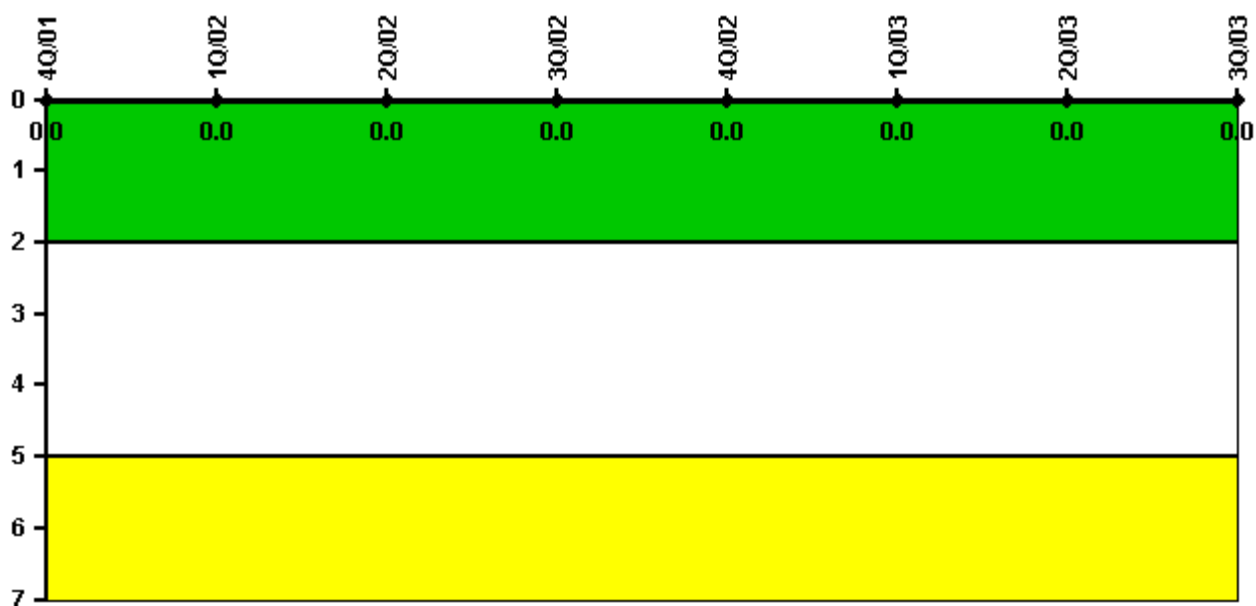
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

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

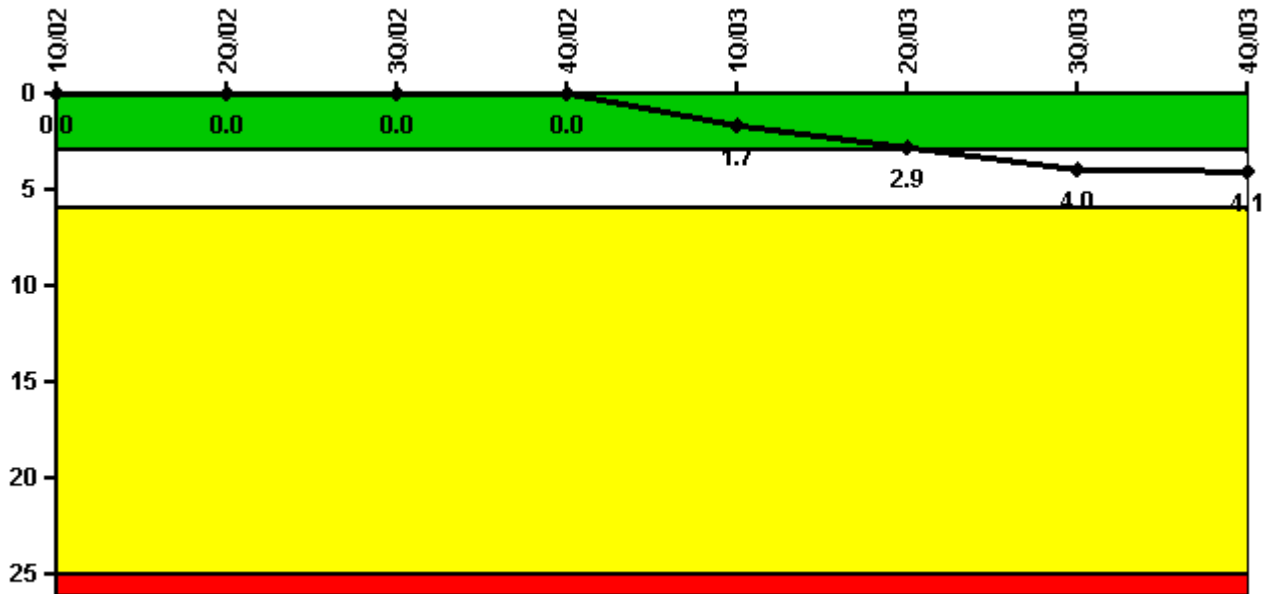
Last Modified: October 22, 2003

Surry 1

4Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned scrams	0	0	0	0	2.0	1.0	1.0	0
Critical hours	2160.0	2183.0	2208.0	2209.0	1869.5	855.8	2147.7	2008.7
Indicator value	0	0	0	0	1.7	2.9	4.0	4.1

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



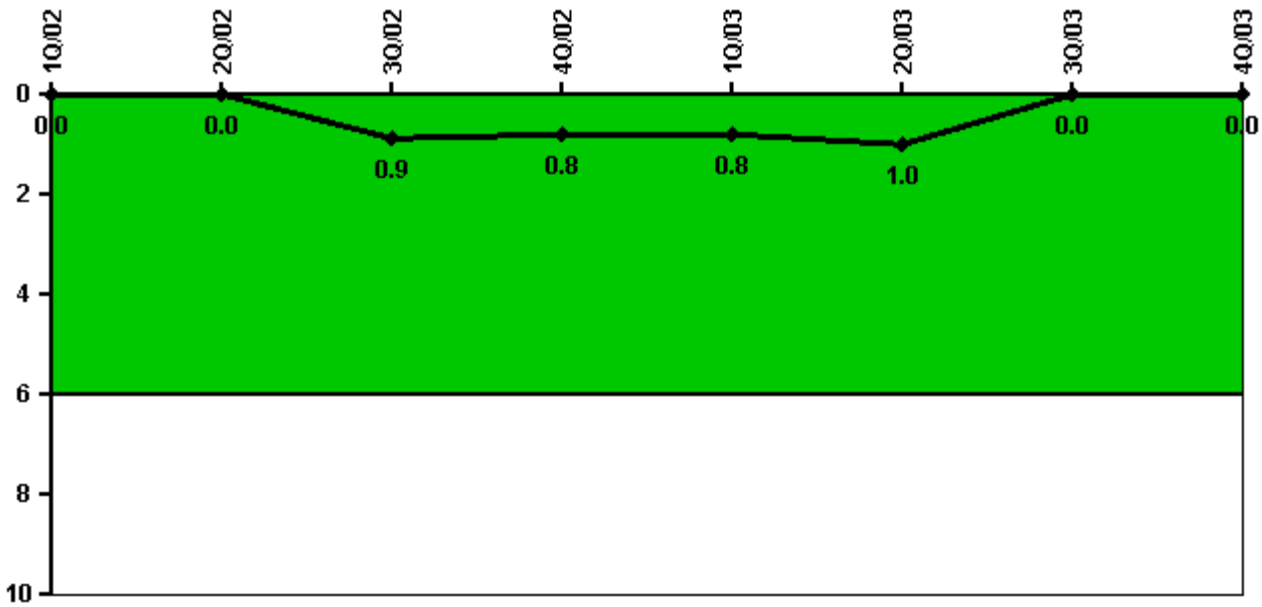
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



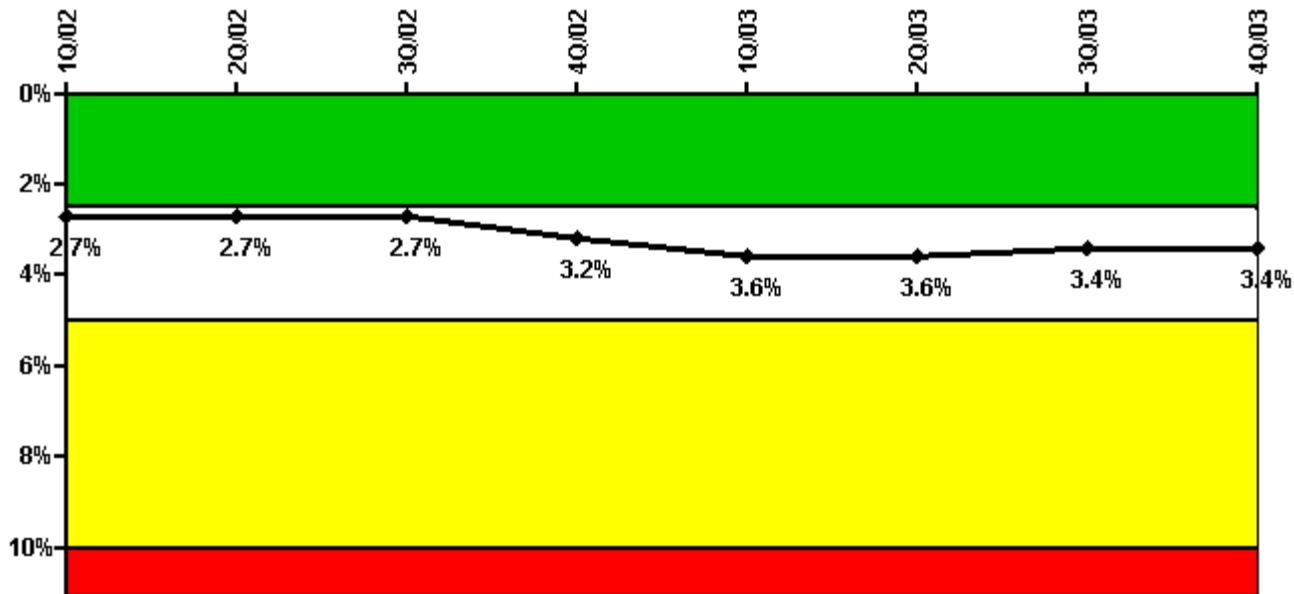
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	2160.0	2183.0	2208.0	2209.0	1869.5	855.8	2147.7	2008.7
Indicator value	0	0	0.9	0.8	0.8	1.0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



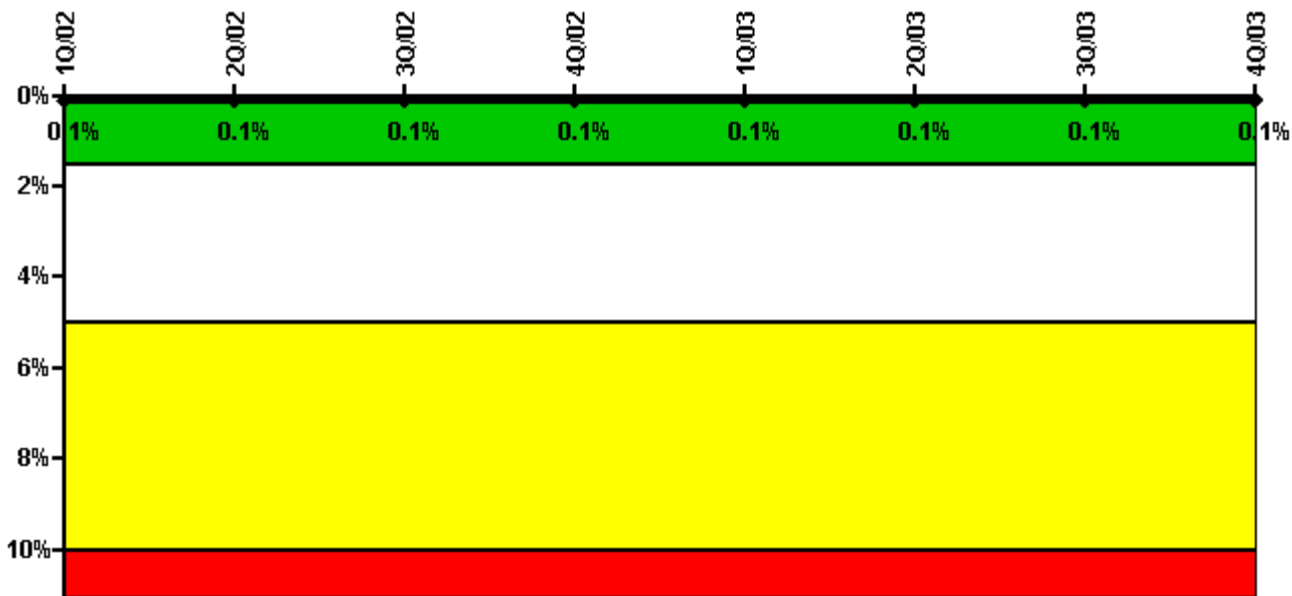
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	35.93	11.35	15.88	78.67	84.65	15.03	12.37	11.25
Unplanned unavailable hours	3.45	5.15	0	0	0	0	2.95	0
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	1963.67	983.09	2208.00	2055.52
Train 2								
Planned unavailable hours	21.07	47.55	23.20	138.04	10.36	10.49	18.78	23.33
Unplanned unavailable hours	7.37	0	9.50	85.35	120.18	7.42	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1963.67	983.09	2208.00	2055.52
Indicator value	2.7%	2.7%	2.7%	3.2%	3.6%	3.6%	3.4%	3.4%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



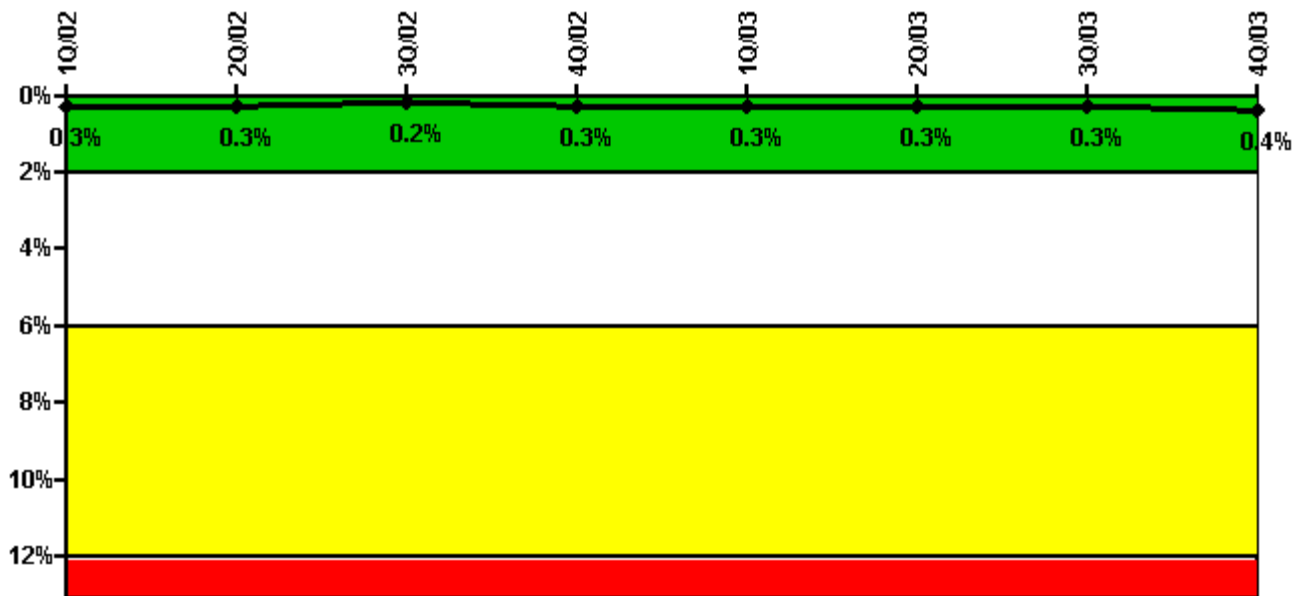
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	0	0	0	0.57	0	0	1.65	1.18
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	1048.50	2208.00	2007.00
Train 2								
Planned unavailable hours	1.10	4.20	3.06	0.32	1.83	21.50	1.27	11.10
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	2160.00	2183.00	2208.00	2209.00	2160.00	1048.50	2208.00	2007.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



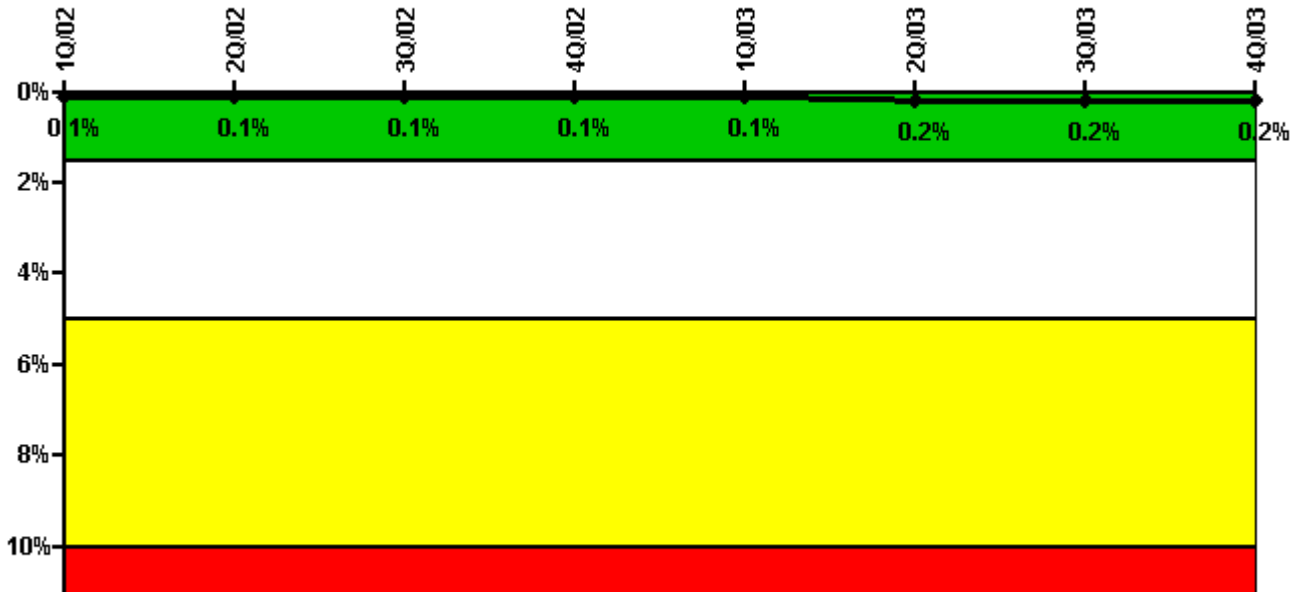
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	10.80	0.90	1.80	2.78	0.88	2.90	2.03	14.03
Unplanned unavailable hours	0	0	0	10.90	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	1164.50	2208.00	2208.00
Train 2								
Planned unavailable hours	0.90	8.30	1.47	1.38	1.20	0	1.05	1.65
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	1164.50	2208.00	2208.00
Train 3								
Planned unavailable hours	1.40	16.10	0.75	3.18	2.50	0	12.00	35.52
Unplanned unavailable hours	0	0	0	0	71.30	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	2160.00	2183.00	2208.00	2209.00	1951.00	981.50	2208.00	2007.00
Indicator value	0.3%	0.3%	0.2%	0.3%	0.3%	0.3%	0.3%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

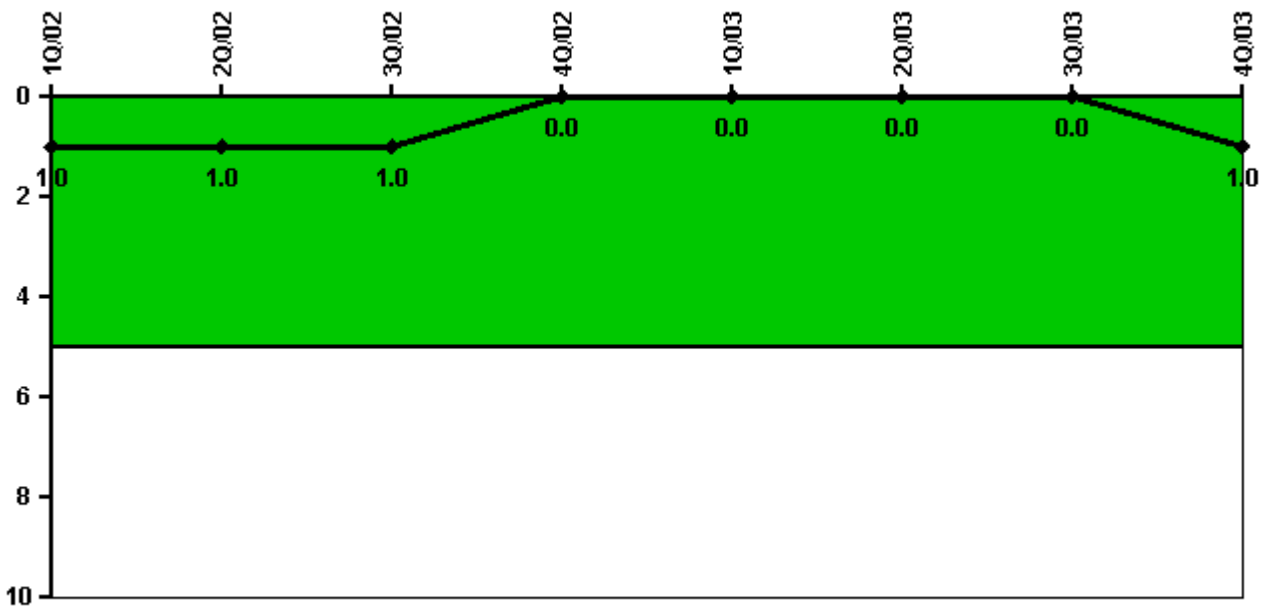
Notes

Safety System Unavailability, Residual Heat Removal System	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	4.90	1.44	0.07	0.08	15.91	0.30	0.13	0.55
Unplanned unavailable hours	0.40	0	0	0	0	0	0	0
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	1870.00	867.00	2208.00	2208.00
Train 2								
Planned unavailable hours	0.60	1.12	1.30	0.07	23.02	51.80	5.90	0.70
Unplanned unavailable hours	0	0	0	0	0	0	0.32	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	2160.00	2183.00	2208.00	2209.00	1870.00	867.00	2208.00	2208.00
Train 3								
Planned unavailable hours	0	0	0	0	0	8.35	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	2183.00	2208.00	2209.00	2042.00	1437.50	2208.00	2208.00
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	2160.00	2183.00	2208.00	2209.00	2042.00	1437.50	2208.00	2208.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)



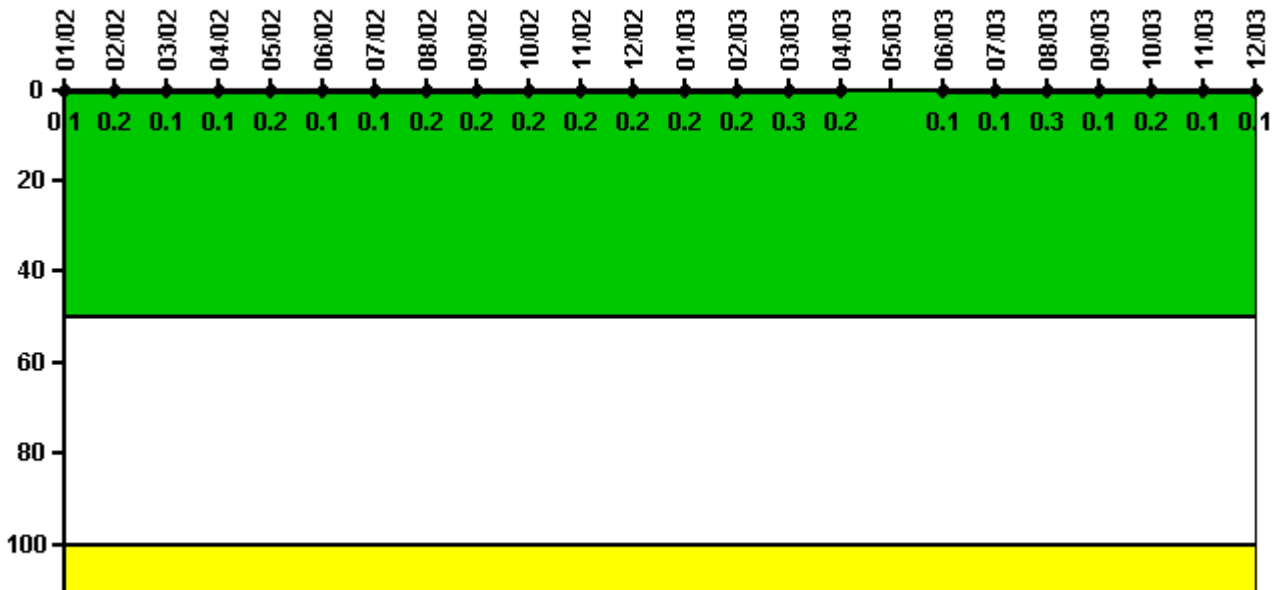
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

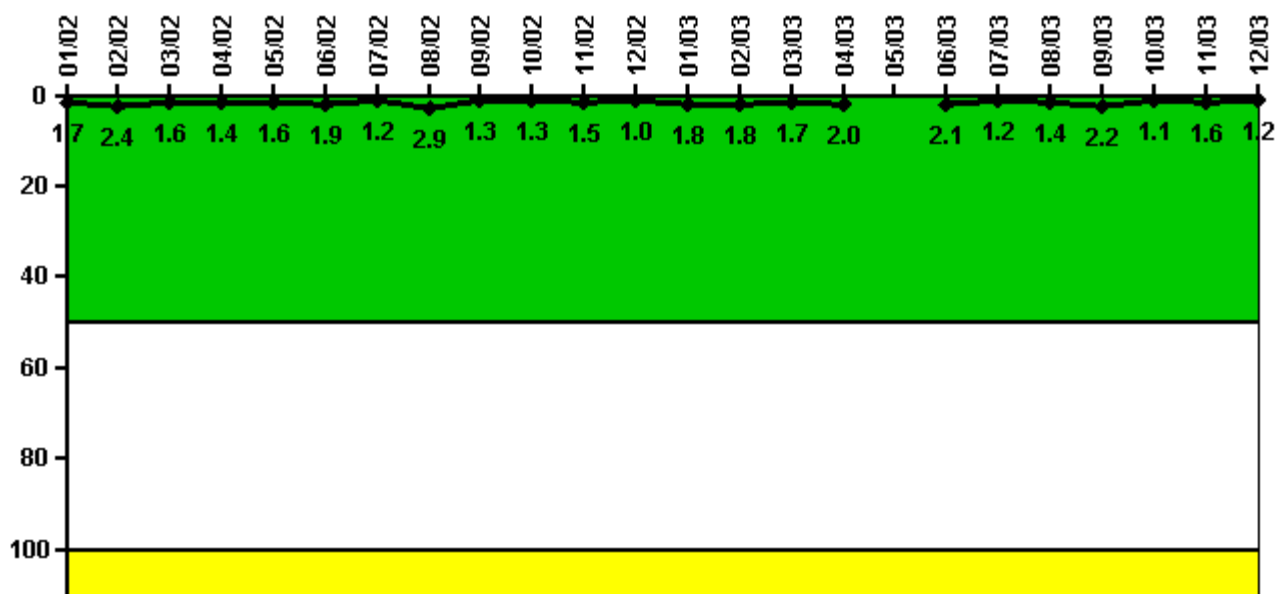
Notes

Reactor Coolant System Activity	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum activity	0.001060	0.001650	0.001200	0.001200	0.001500	0.001410	0.001390	0.002360	0.001630	0.001700	0.001780	0.001920
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.2	0.1	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2

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	0.001870	0.001920	0.002810	0.002100	N/A	0.000956	0.001080	0.002690	0.001380	0.002180	0.001300	0.001400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.3	0.2	N/A	0.1	0.1	0.3	0.1	0.2	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

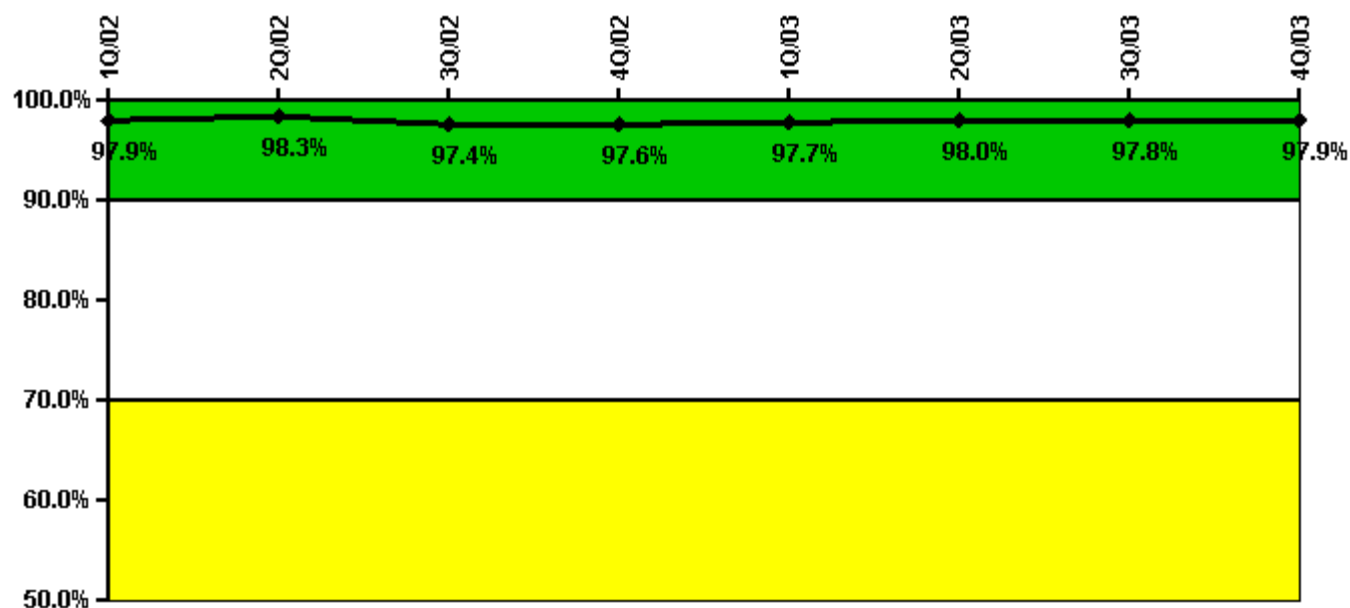
Notes

Reactor Coolant System Leakage	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	0.170	0.240	0.160	0.140	0.160	0.190	0.120	0.290	0.130	0.130	0.150	0.100
Technical specification limit	10.0	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	2.4	1.6	1.4	1.6	1.9	1.2	2.9	1.3	1.3	1.5	1.0

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	0.180	0.180	0.170	0.200	N/A	0.210	0.120	0.140	0.220	0.110	0.160	0.120
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.8	1.8	1.7	2.0	N/A	2.1	1.2	1.4	2.2	1.1	1.6	1.2

Licensee Comments: none

Drill/Exercise Performance



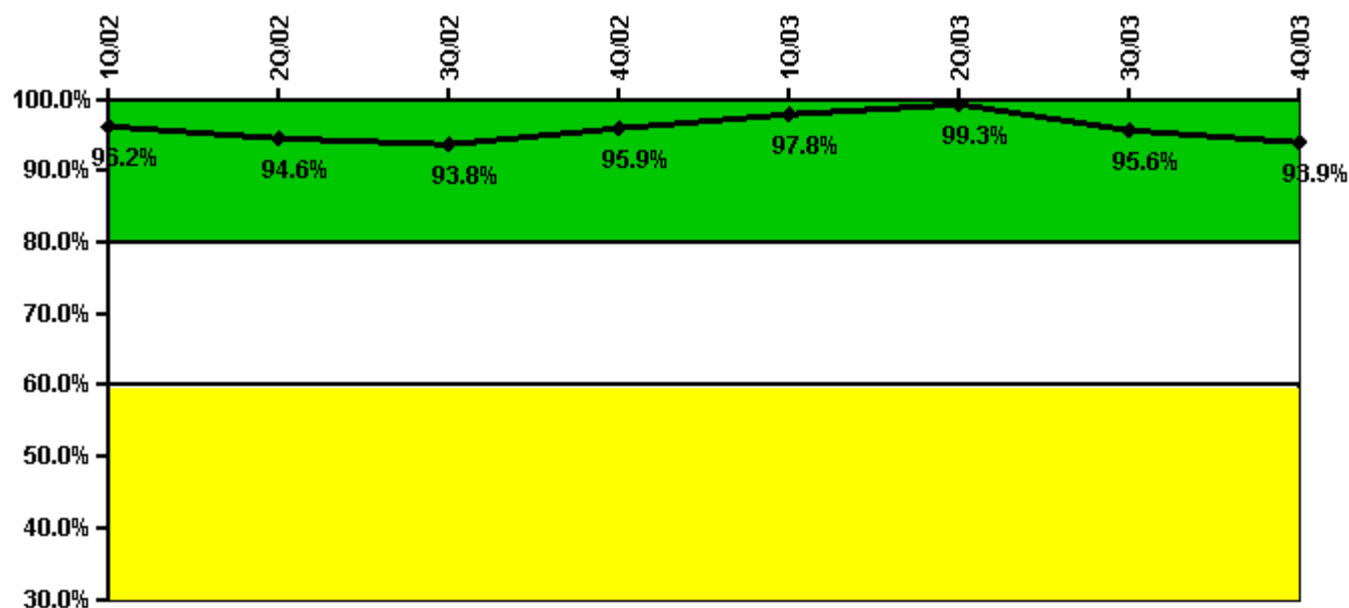
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Successful opportunities	40.0	55.0	54.0	18.0	14.0	48.0	51.0	0
Total opportunities	40.0	55.0	56.0	18.0	14.0	49.0	54.0	0
Indicator value	97.9%	98.3%	97.4%	97.6%	97.7%	98.0%	97.8%	97.9%

Licensee Comments: none

ERO Drill Participation



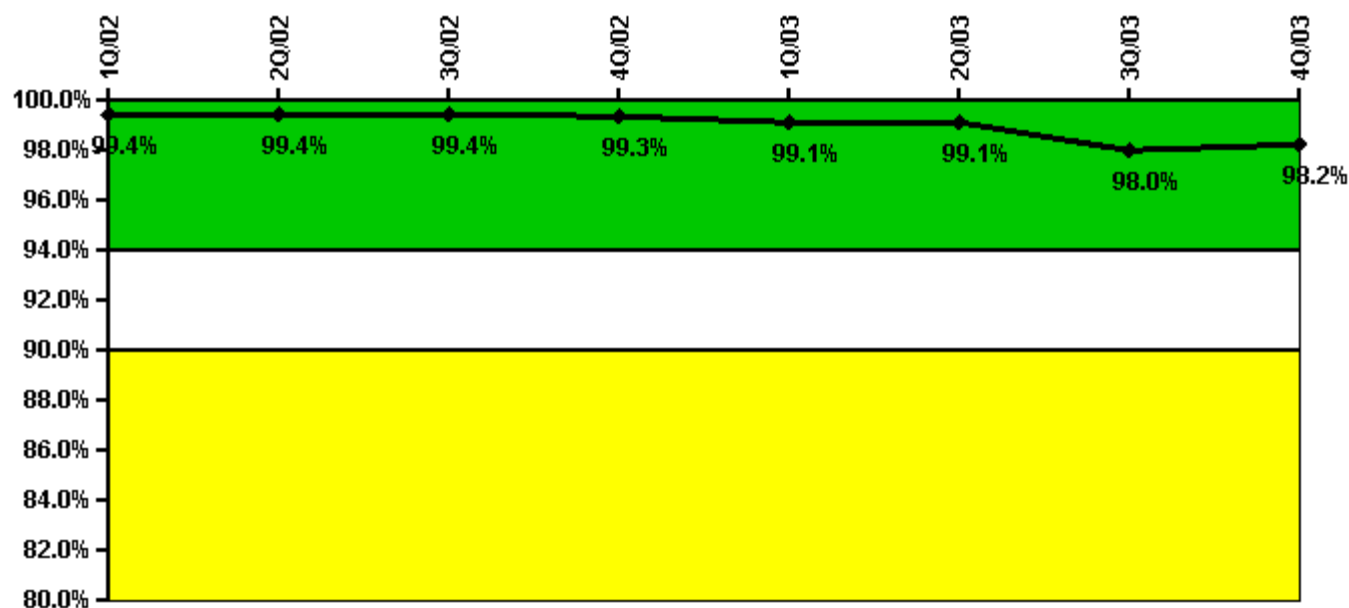
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Participating Key personnel	126.0	141.0	135.0	140.0	136.0	137.0	152.0	154.0
Total Key personnel	131.0	149.0	144.0	146.0	139.0	138.0	159.0	164.0
Indicator value	96.2%	94.6%	93.8%	95.9%	97.8%	99.3%	95.6%	93.9%

Licensee Comments: none

Alert & Notification System



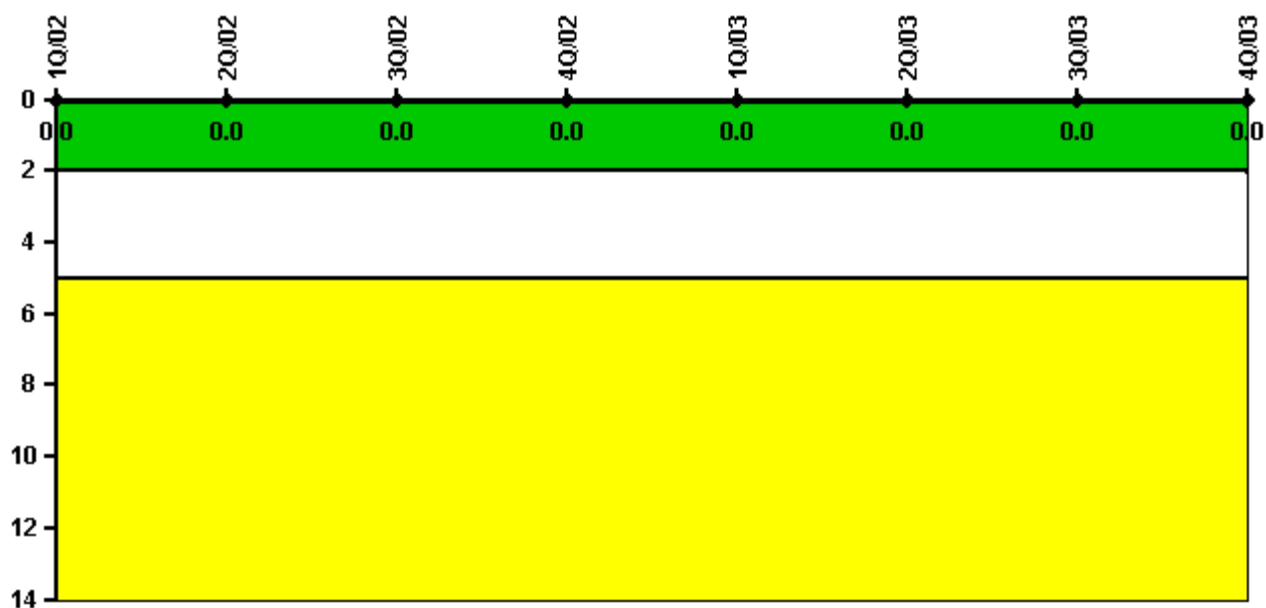
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Successful siren-tests	518	515	453	514	525	531	510	600
Total sirens-tests	520	520	455	520	530	536	536	603
Indicator value	99.4%	99.4%	99.4%	99.3%	99.1%	99.1%	98.0%	98.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness

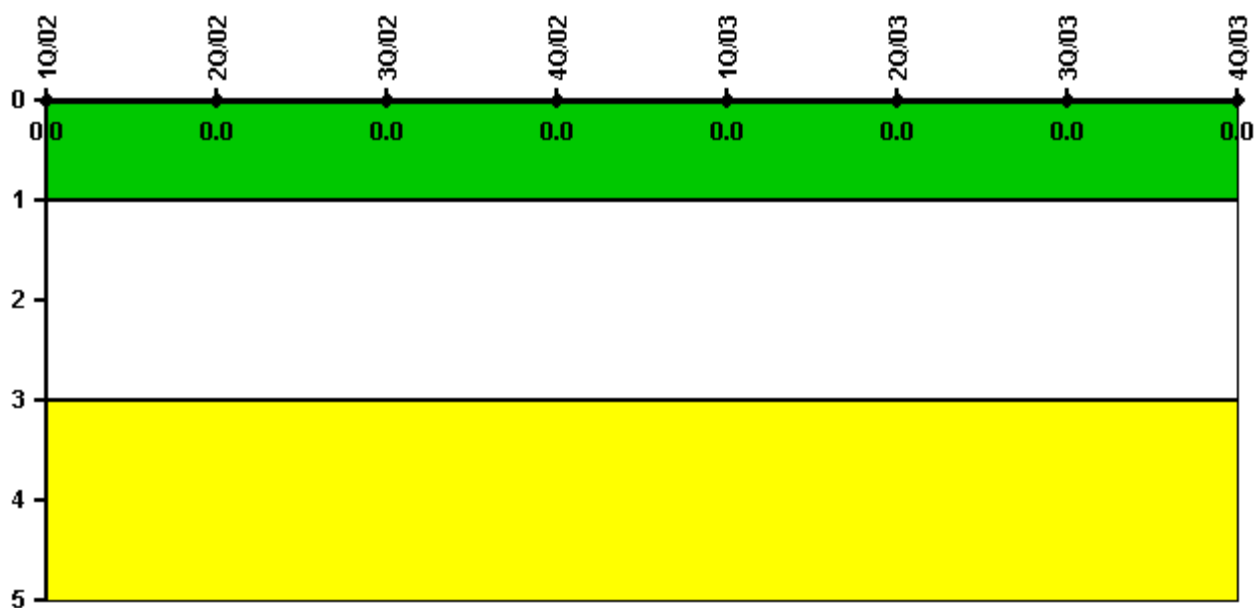


Thresholds: White > 2.0 Yellow > 5.0

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

RETS/ODCM Radiological Effluent

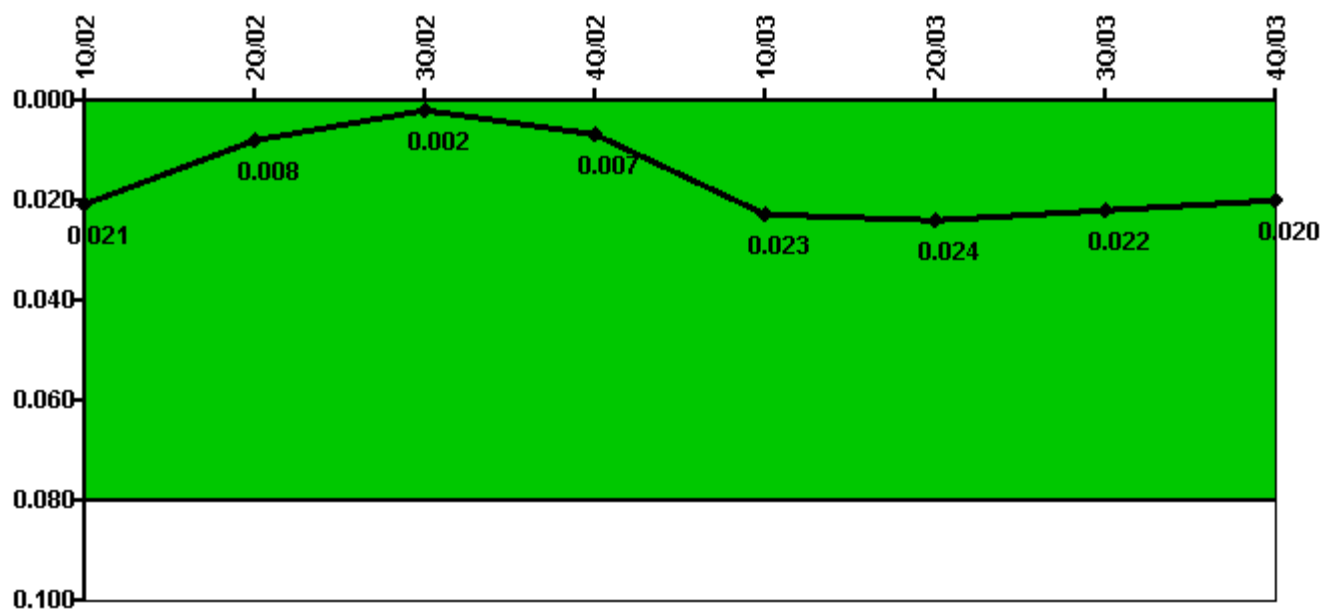
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



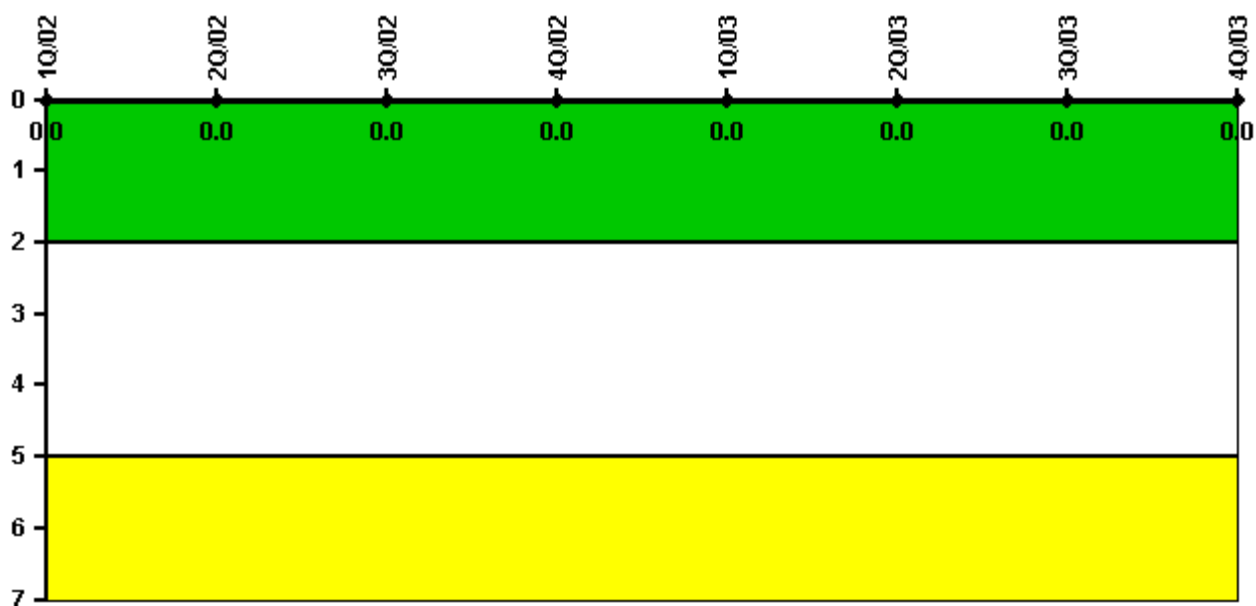
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
IDS compensatory hours	0	13.26	27.25	83.20	298.08	32.60	0	33.70
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.021	0.008	0.002	0.007	0.023	0.024	0.022	0.020

Licensee Comments: none

Personnel Screening Program



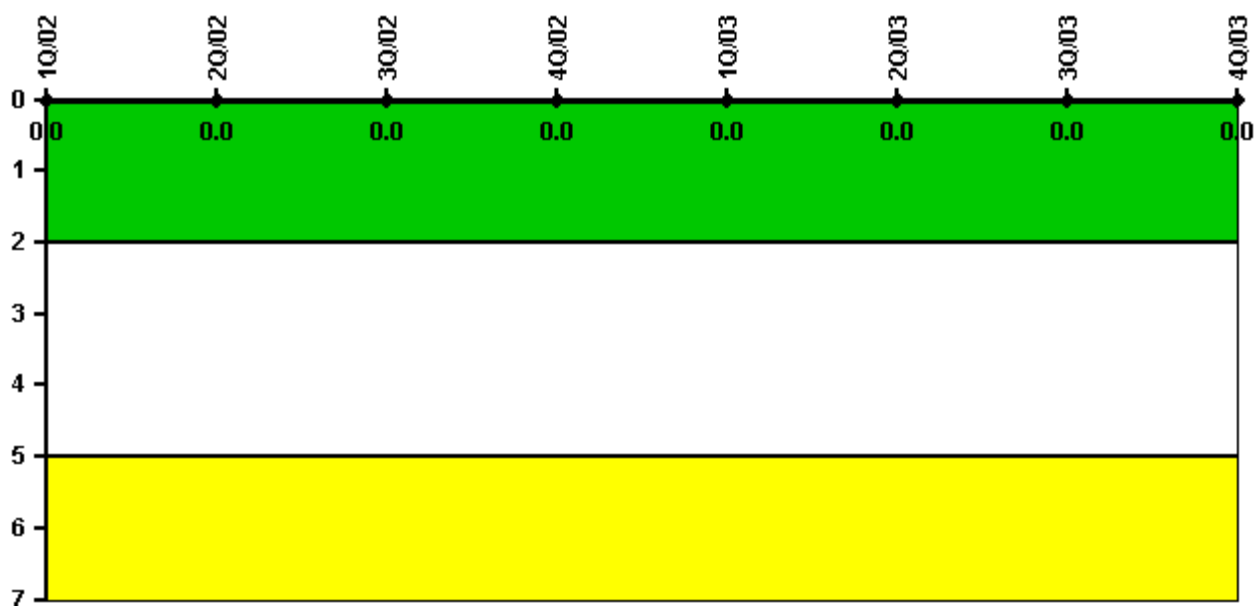
Thresholds: White > 2.0 Yellow > 5.0

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](#)

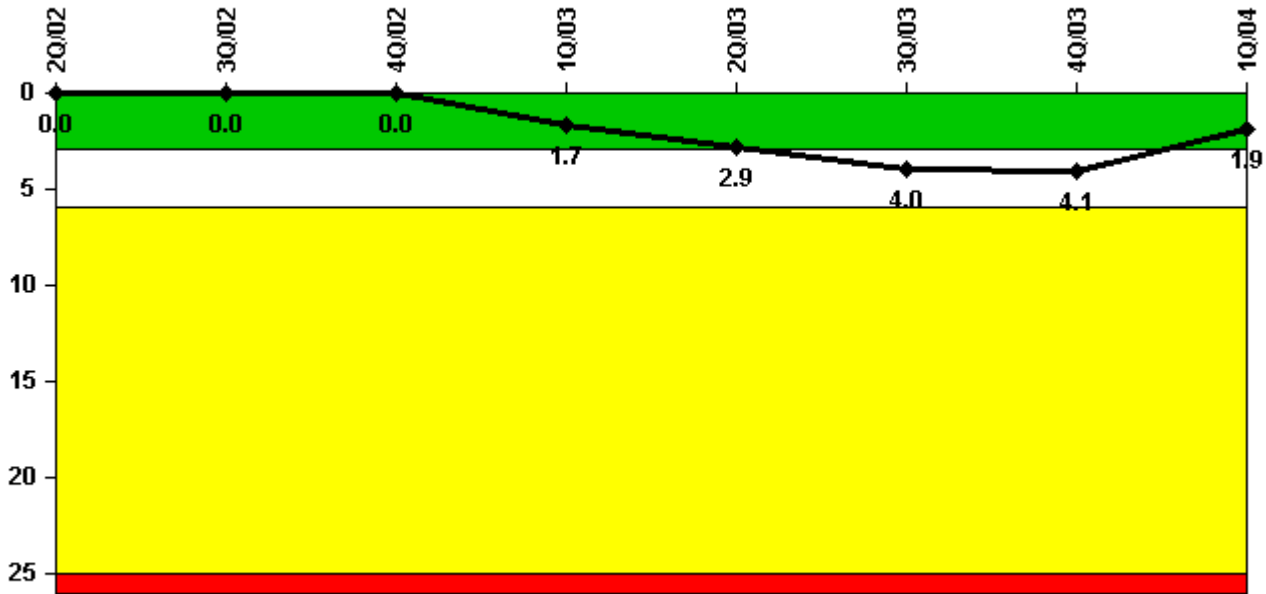
Last Modified: January 23, 2004

Surry 1

1Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



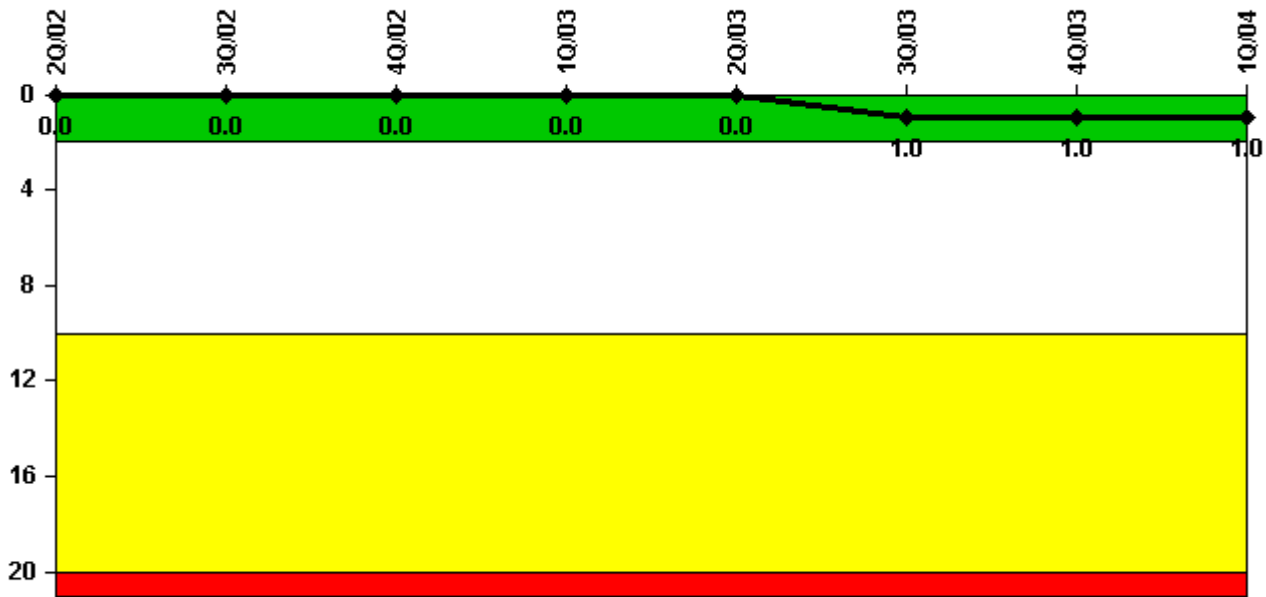
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned scrams	0	0	0	2.0	1.0	1.0	0	0
Critical hours	2183.0	2208.0	2209.0	1869.5	855.8	2147.7	2008.7	2184.0
Indicator value	0	0	0	1.7	2.9	4.0	4.1	1.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



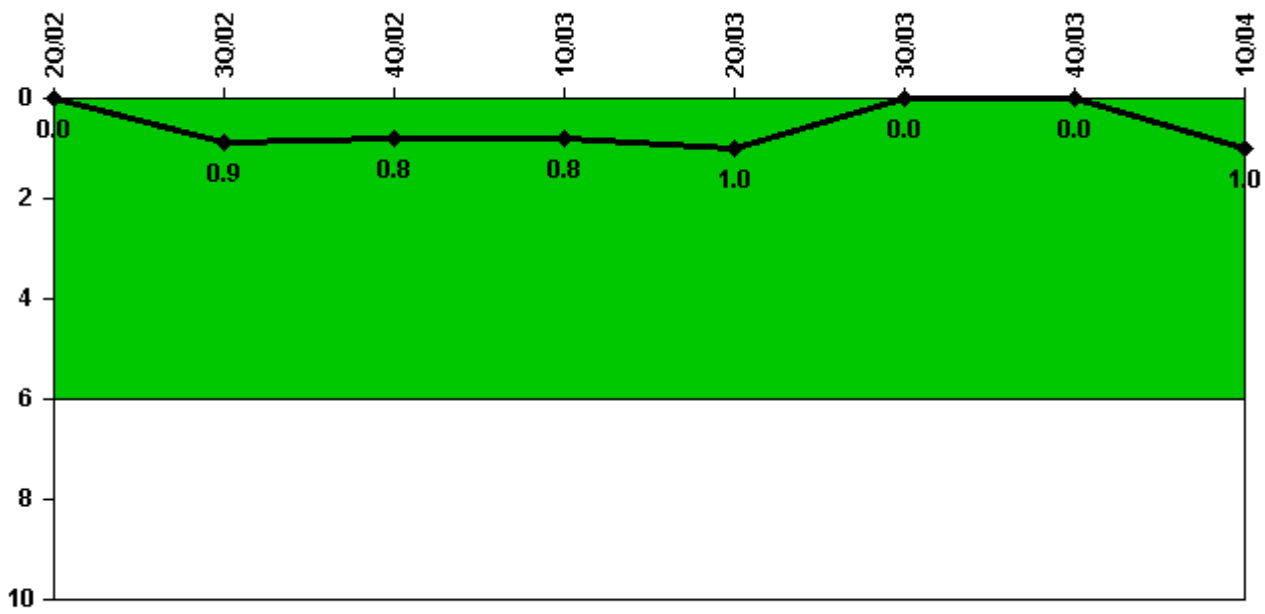
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



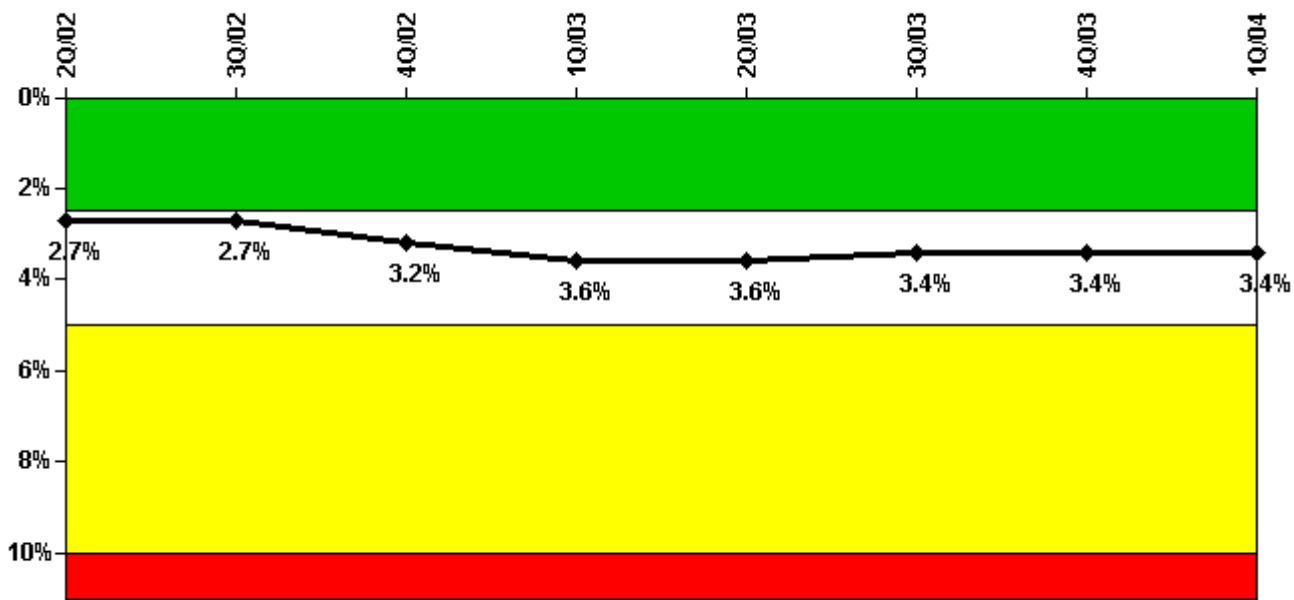
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned power changes	0	1.0	0	0	0	0	0	1.0
Critical hours	2183.0	2208.0	2209.0	1869.5	855.8	2147.7	2008.7	2184.0
Indicator value	0	0.9	0.8	0.8	1.0	0	0	1.0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



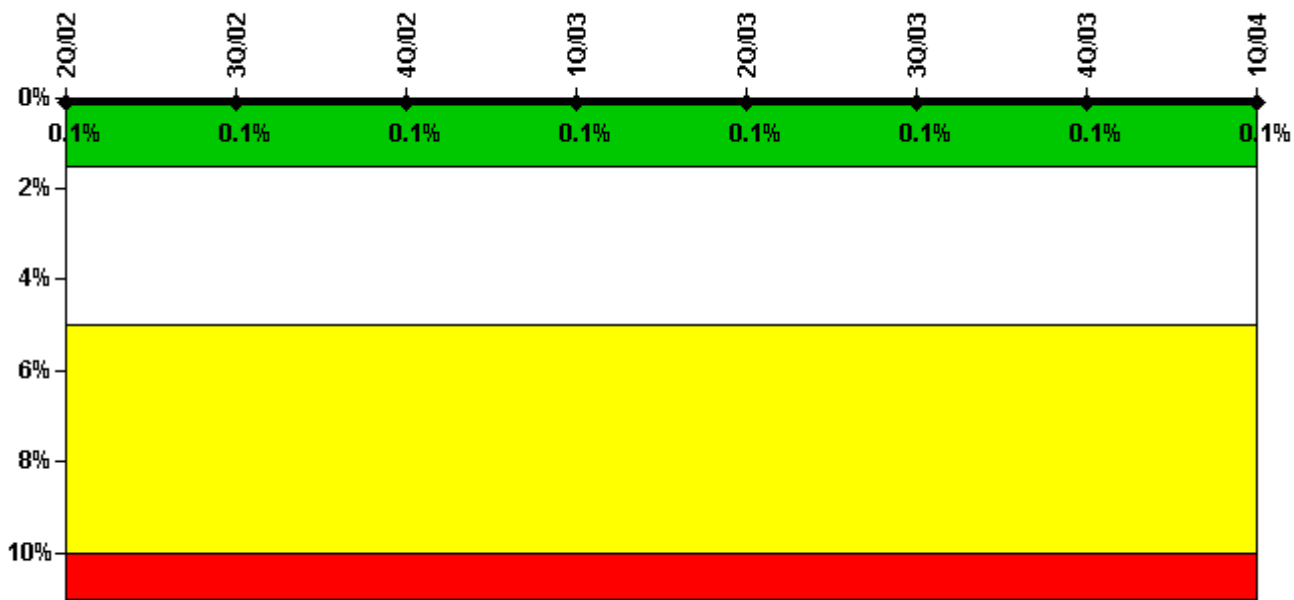
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	11.35	15.88	78.67	84.65	15.03	12.37	11.25	12.45
Unplanned unavailable hours	5.15	0	0	0	0	2.95	0	3.83
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1963.67	983.09	2208.00	2055.52	2184.00
Train 2								
Planned unavailable hours	47.55	23.20	138.04	10.36	10.49	18.78	23.33	21.23
Unplanned unavailable hours	0	9.50	85.35	120.18	7.42	0	0	0
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	1963.67	983.09	2208.00	2055.52	2184.00
Indicator value	2.7%	2.7%	3.2%	3.6%	3.6%	3.4%	3.4%	3.4%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



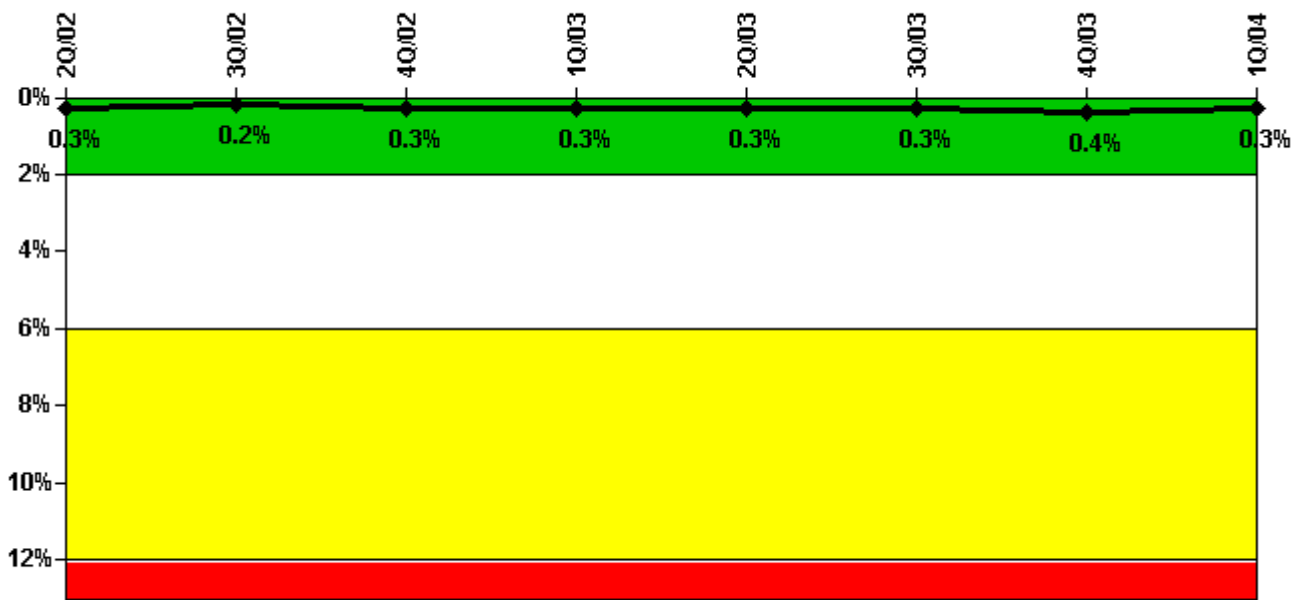
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0	0	0.57	0	0	1.65	1.18	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1048.50	2208.00	2007.00	2184.00
Train 2								
Planned unavailable hours	4.20	3.06	0.32	1.83	21.50	1.27	11.10	1.85
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1048.50	2208.00	2007.00	2184.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



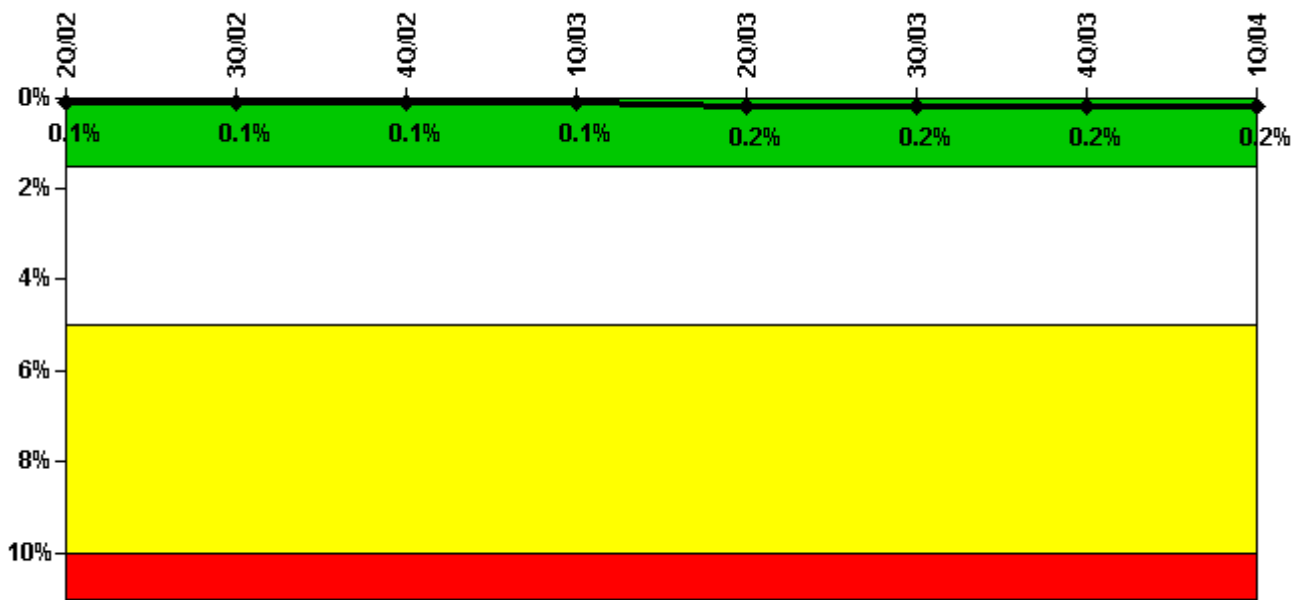
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	0.90	1.80	2.78	0.88	2.90	2.03	14.03	0.80
Unplanned unavailable hours	0	0	10.90	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1164.50	2208.00	2208.00	2184.00
Train 2								
Planned unavailable hours	8.30	1.47	1.38	1.20	0	1.05	1.65	10.00
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	2183.00	2208.00	2209.00	2160.00	1164.50	2208.00	2208.00	2184.00
Train 3								
Planned unavailable hours	16.10	0.75	3.18	2.50	0	12.00	35.52	1.65
Unplanned unavailable hours	0	0	0	71.30	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	2183.00	2208.00	2209.00	1951.00	981.50	2208.00	2007.00	2184.00
Indicator value	0.3%	0.2%	0.3%	0.3%	0.3%	0.3%	0.4%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



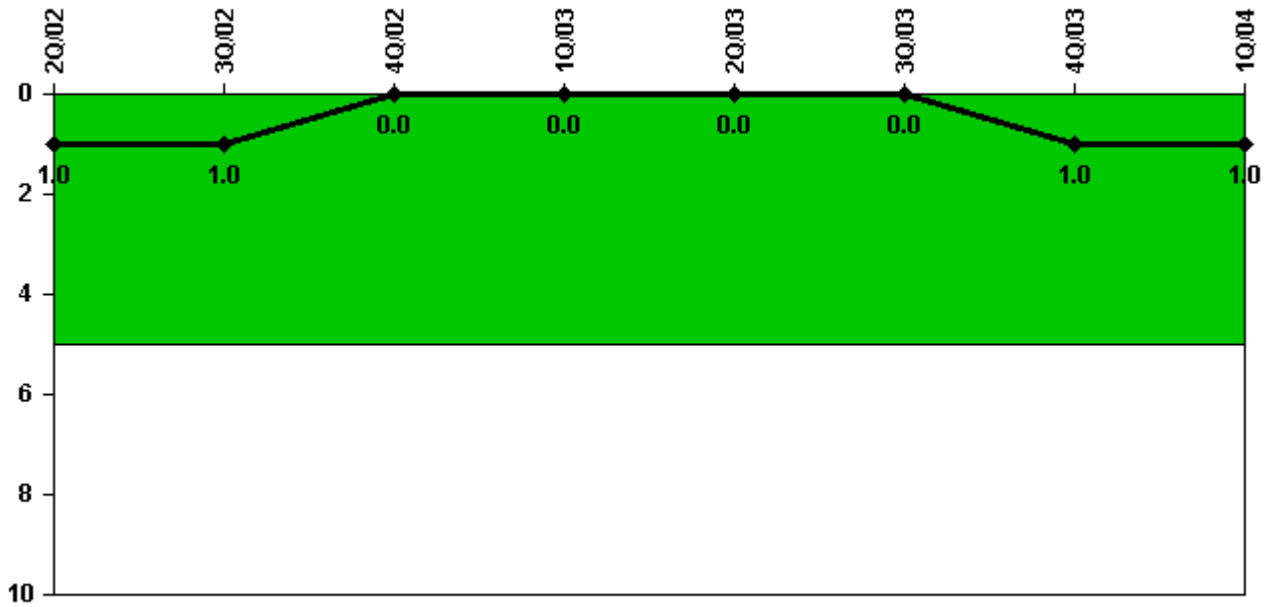
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	1.44	0.07	0.08	15.91	0.30	0.13	0.55	0.10
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	2183.00	2208.00	2209.00	1870.00	867.00	2208.00	2208.00	2184.00
Train 2								
Planned unavailable hours	1.12	1.30	0.07	23.02	51.80	5.90	0.70	0.10
Unplanned unavailable hours	0	0	0	0	0	0.32	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	2209.00	1870.00	867.00	2208.00	2208.00	2184.00
Train 3								
Planned unavailable hours	0	0	0	0	8.35	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2042.00	1437.50	2208.00	2208.00	2184.00
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	2183.00	2208.00	2209.00	2042.00	1437.50	2208.00	2208.00	2184.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)



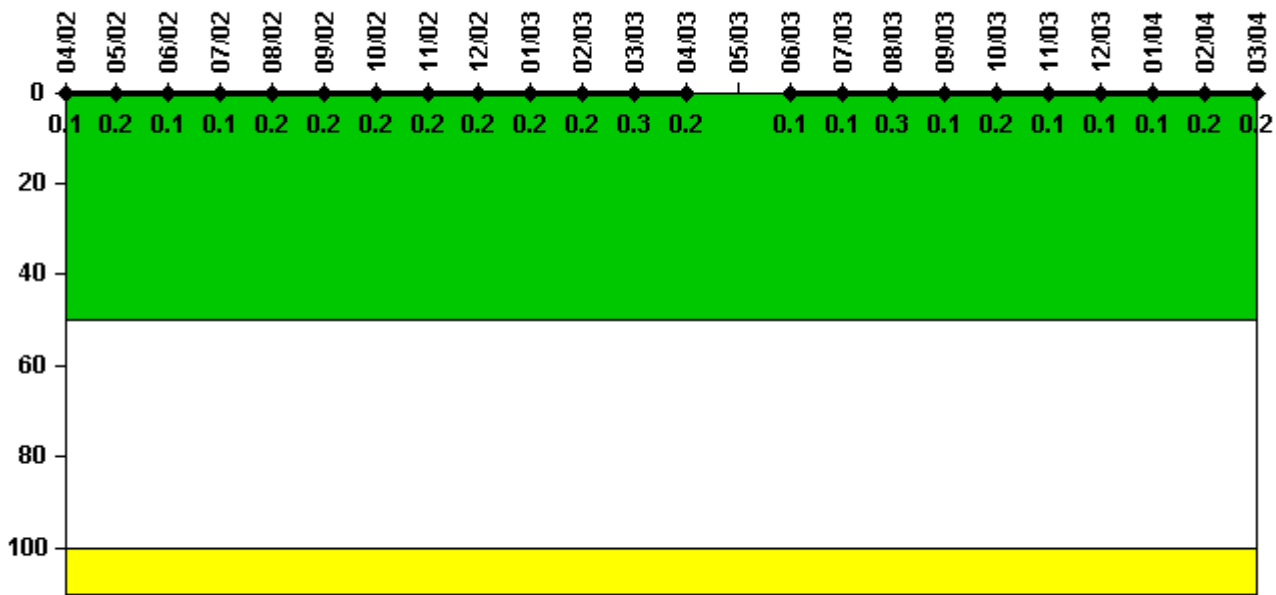
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

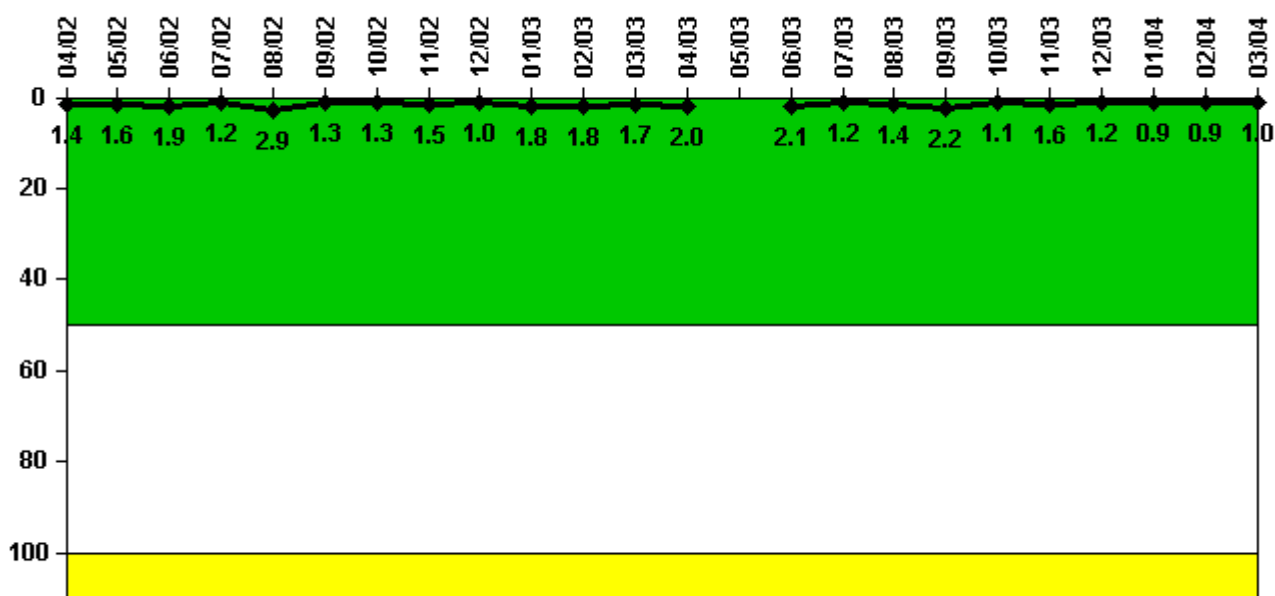
Notes

Reactor Coolant System Activity	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	0.001200	0.001500	0.001410	0.001390	0.002360	0.001630	0.001700	0.001780	0.001920	0.001870	0.001920	0.002810
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3

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	0.002100	N/A	0.000956	0.001080	0.002690	0.001380	0.002180	0.001300	0.001400	0.001420	0.001540	0.001670
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	N/A	0.1	0.1	0.3	0.1	0.2	0.1	0.1	0.1	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

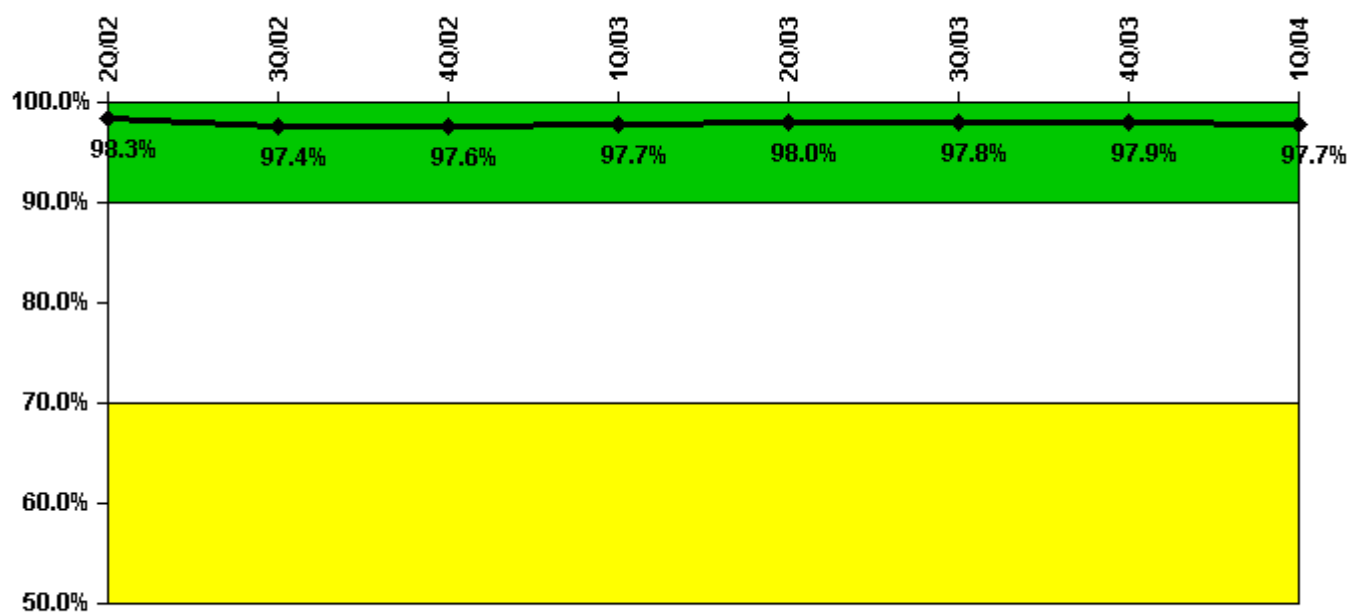
Notes

Reactor Coolant System Leakage	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	0.140	0.160	0.190	0.120	0.290	0.130	0.130	0.150	0.100	0.180	0.180	0.170
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.4	1.6	1.9	1.2	2.9	1.3	1.3	1.5	1.0	1.8	1.8	1.7

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	0.200	N/A	0.210	0.120	0.140	0.220	0.110	0.160	0.120	0.090	0.090	0.100
Technical specification limit	10.0	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	N/A	2.1	1.2	1.4	2.2	1.1	1.6	1.2	0.9	0.9	1.0

Licensee Comments: none

Drill/Exercise Performance



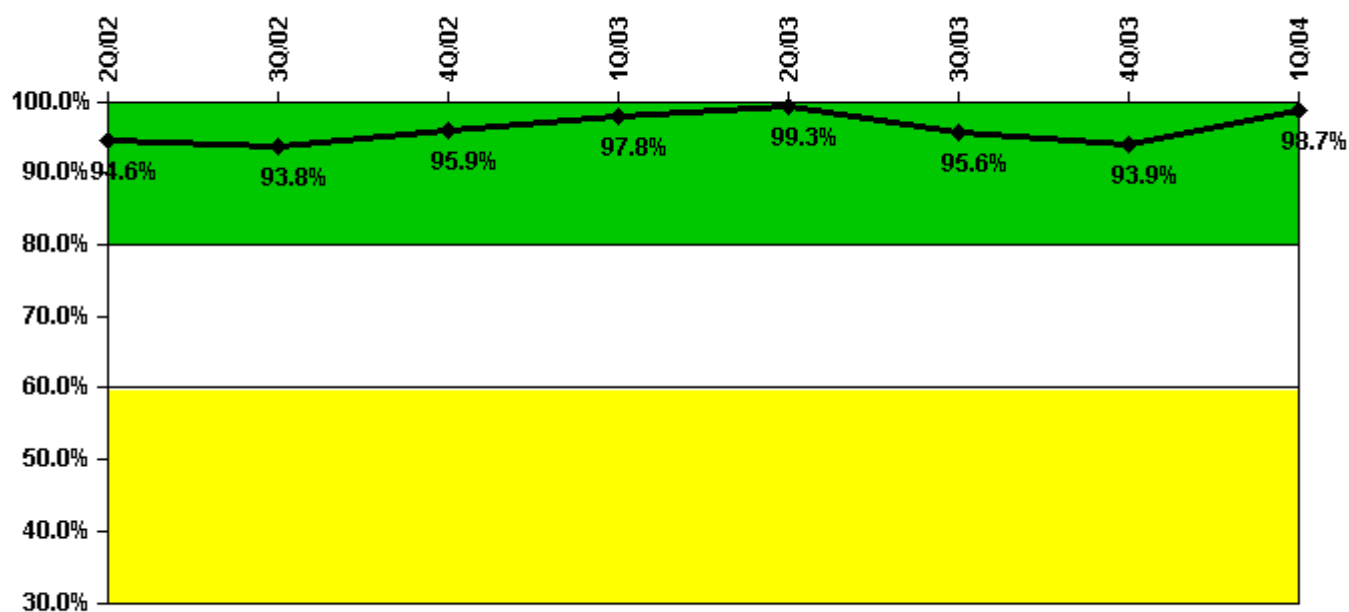
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Successful opportunities	55.0	54.0	18.0	14.0	48.0	51.0	0	16.0
Total opportunities	55.0	56.0	18.0	14.0	49.0	54.0	0	16.0
Indicator value	98.3%	97.4%	97.6%	97.7%	98.0%	97.8%	97.9%	97.7%

Licensee Comments: none

ERO Drill Participation



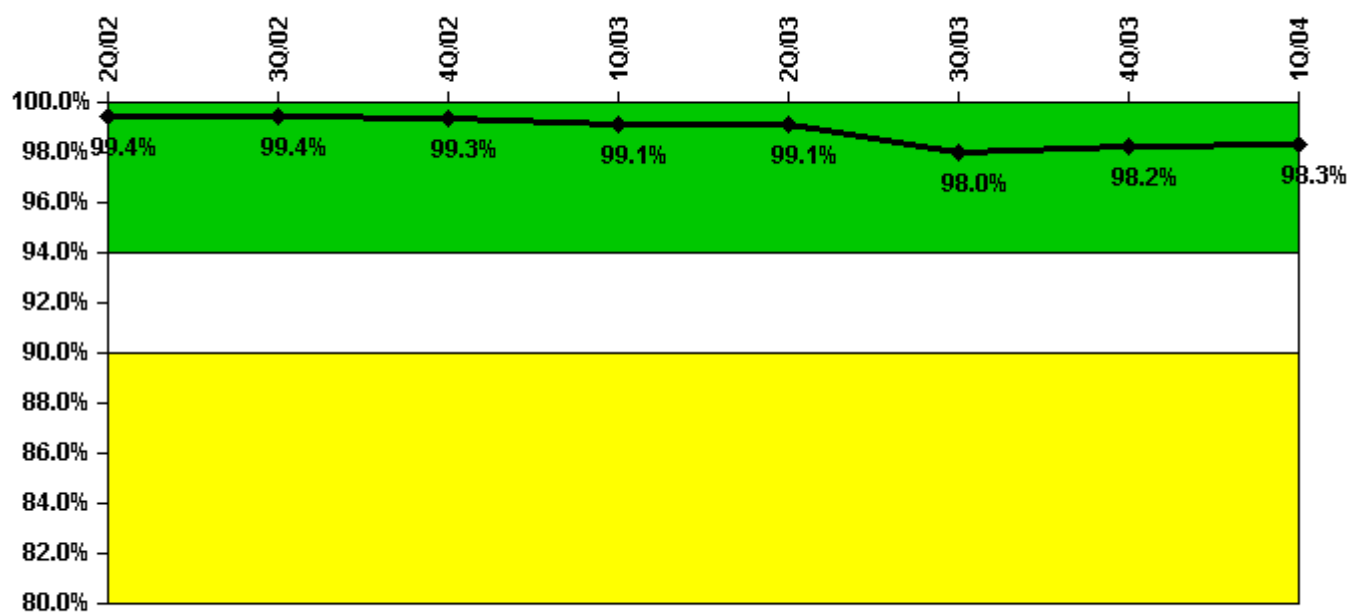
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Participating Key personnel	141.0	135.0	140.0	136.0	137.0	152.0	154.0	156.0
Total Key personnel	149.0	144.0	146.0	139.0	138.0	159.0	164.0	158.0
Indicator value	94.6%	93.8%	95.9%	97.8%	99.3%	95.6%	93.9%	98.7%

Licensee Comments: none

Alert & Notification System



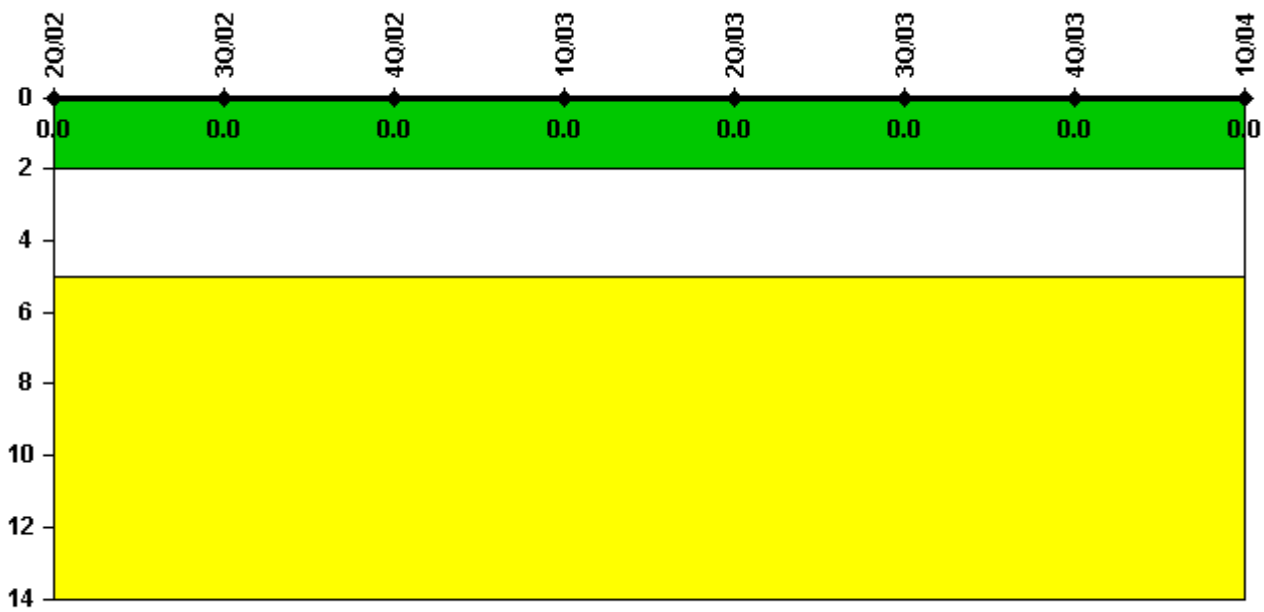
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Successful siren-tests	515	453	514	525	531	510	600	467
Total sirens-tests	520	455	520	530	536	536	603	469
Indicator value	99.4%	99.4%	99.3%	99.1%	99.1%	98.0%	98.2%	98.3%

Licensee Comments: none

Occupational Exposure Control Effectiveness

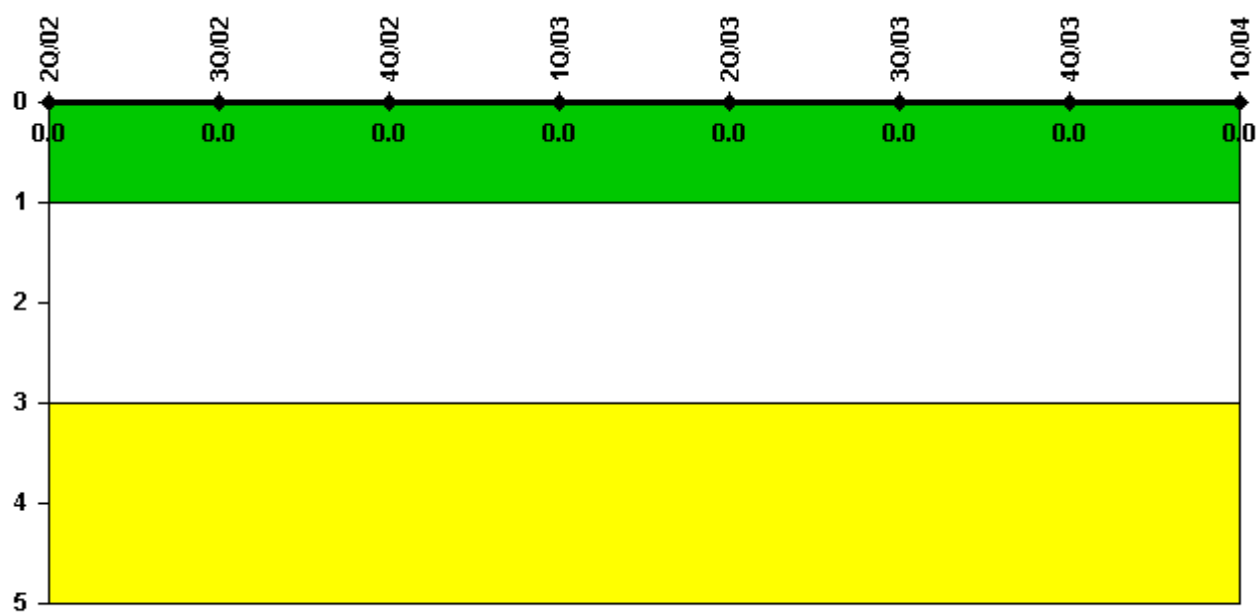


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
High radiation area occurrences	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

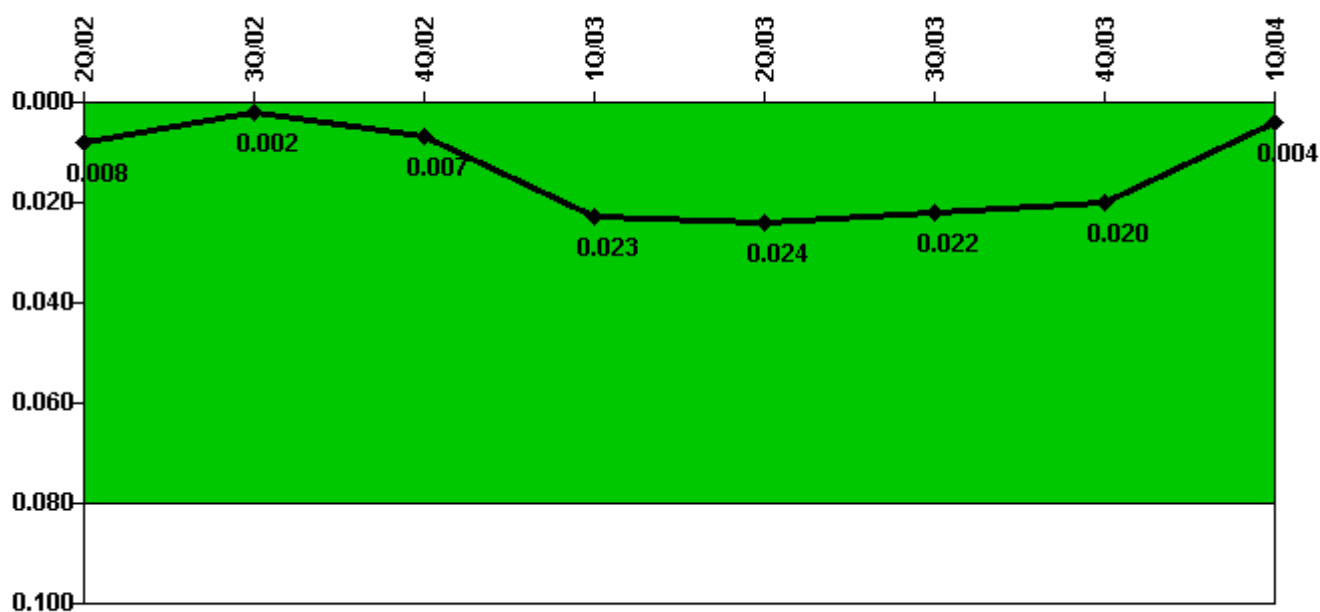
Thresholds: White > 1.0 Yellow > 3.0

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



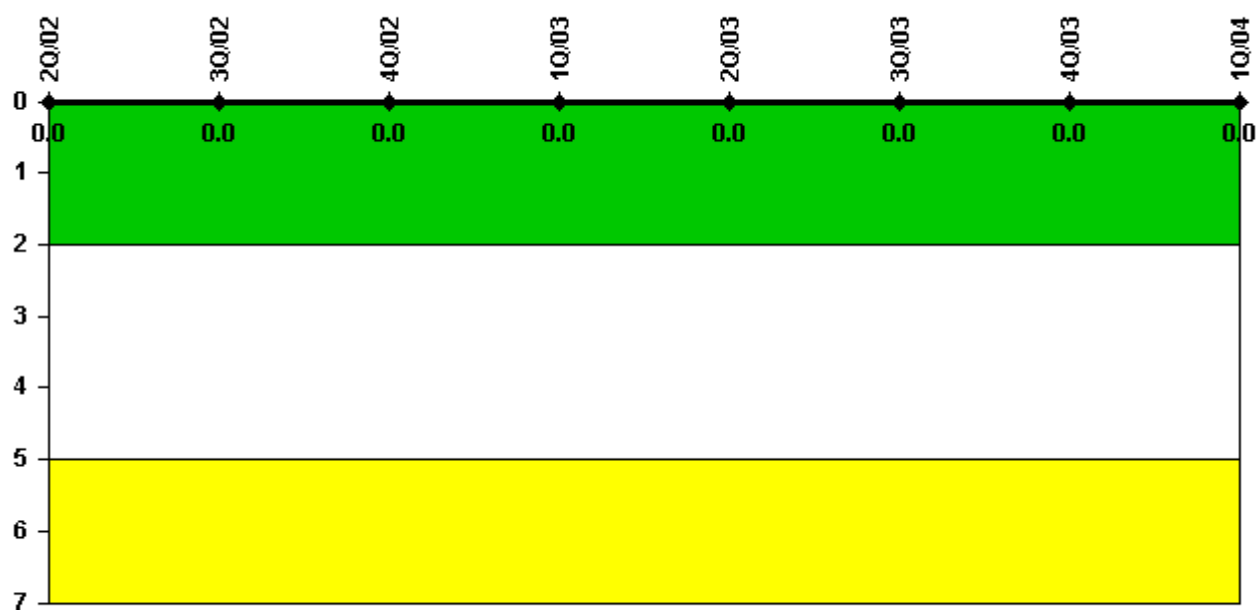
Thresholds: White > 0.080

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	13.26	27.25	83.20	298.08	32.60	0	33.70	0
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.05	1.05	1.05	1.05	1.05	1.05	1.05	1.05
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.008	0.002	0.007	0.023	0.024	0.022	0.020	0.004

Licensee Comments: none

Personnel Screening Program

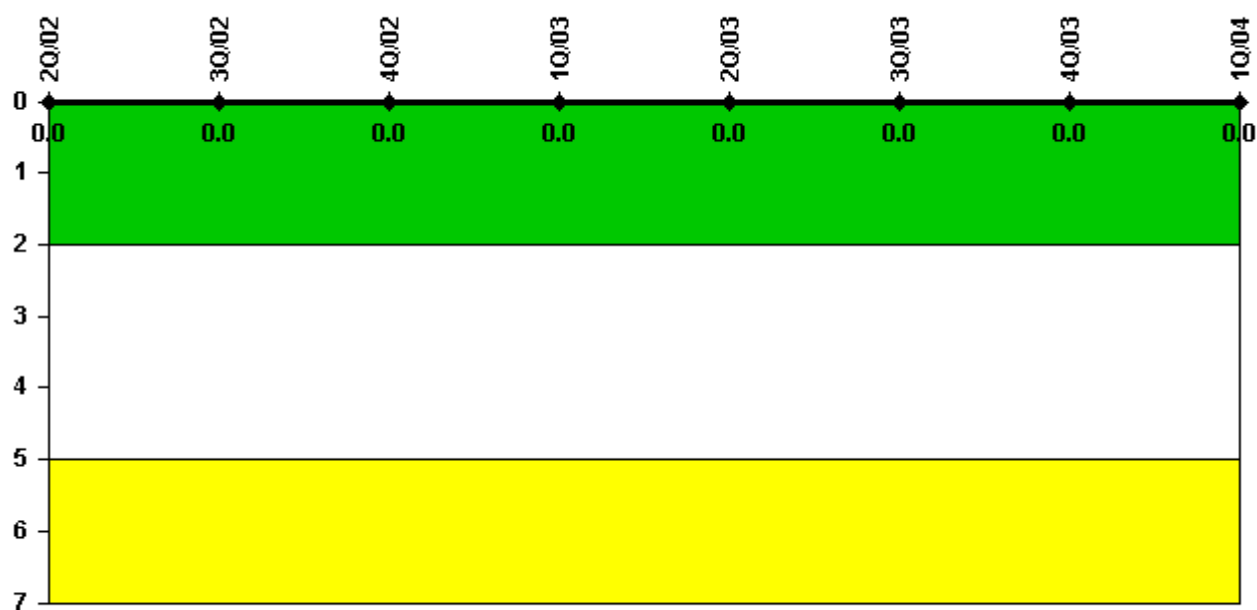


Thresholds: White > 2.0 Yellow > 5.0

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](#)

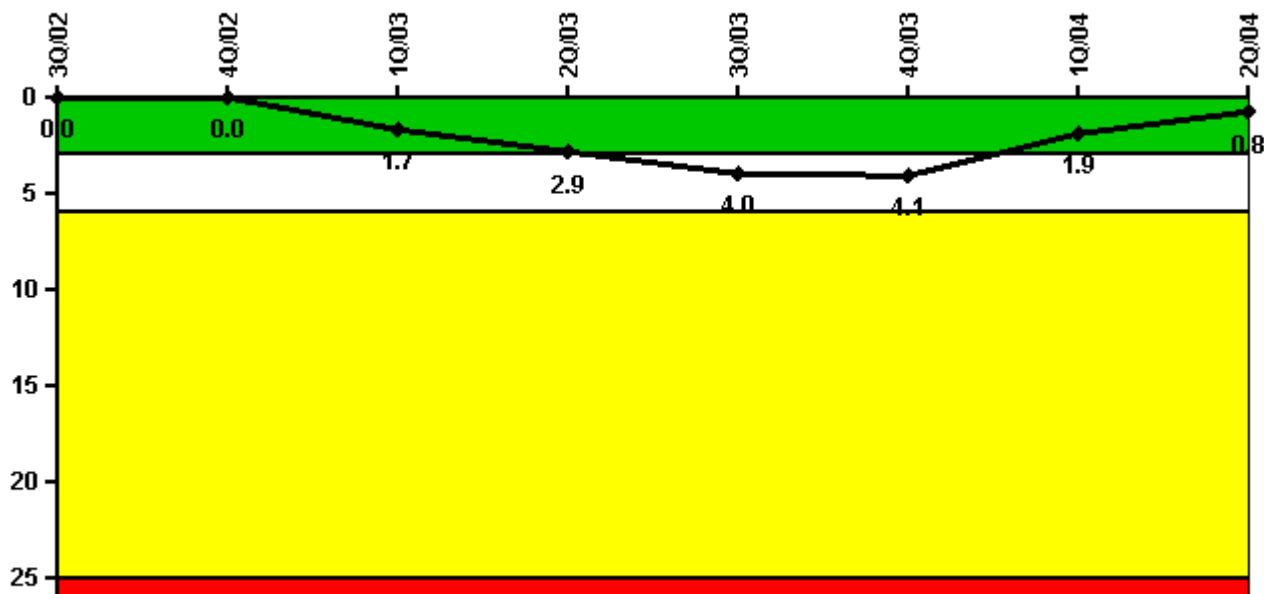
Last Modified: April 22, 2004

Surry 1

2Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



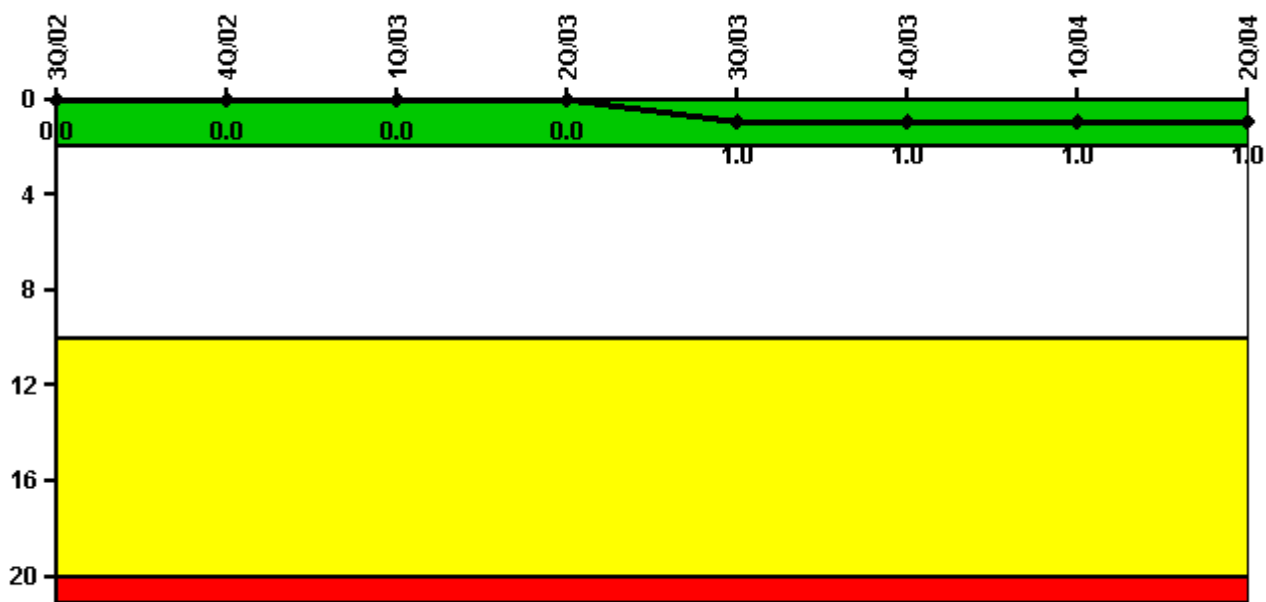
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned scrams	0	0	2.0	1.0	1.0	0	0	0
Critical hours	2208.0	2209.0	1869.5	855.8	2147.7	2008.7	2184.0	2183.0
Indicator value	0	0	1.7	2.9	4.0	4.1	1.9	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



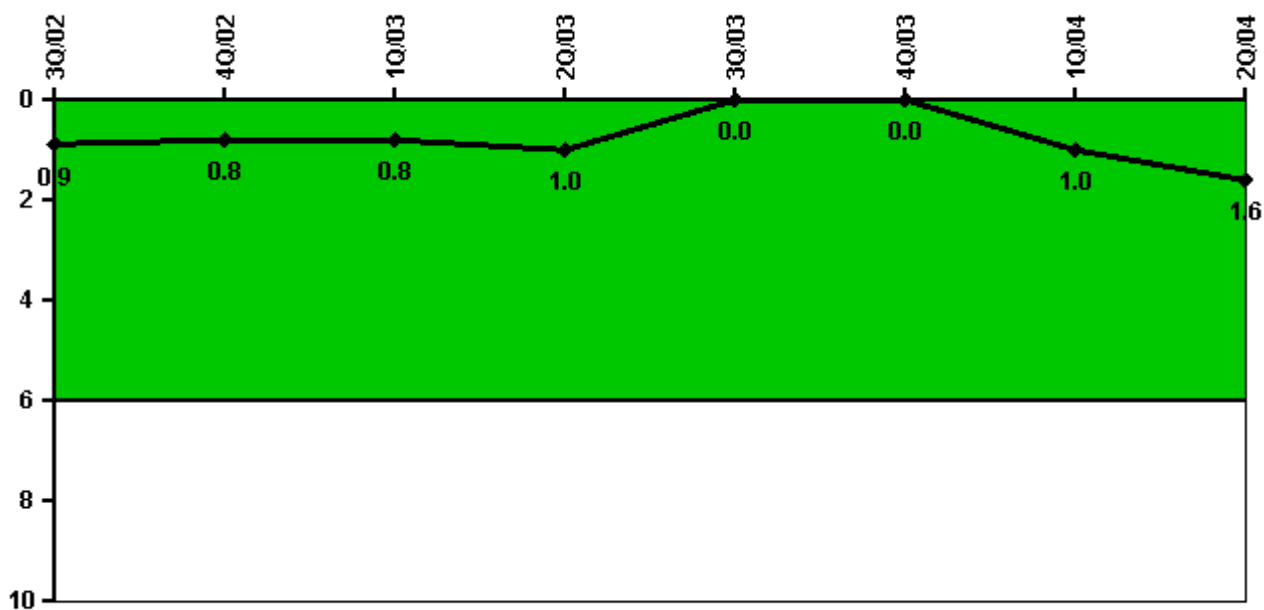
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



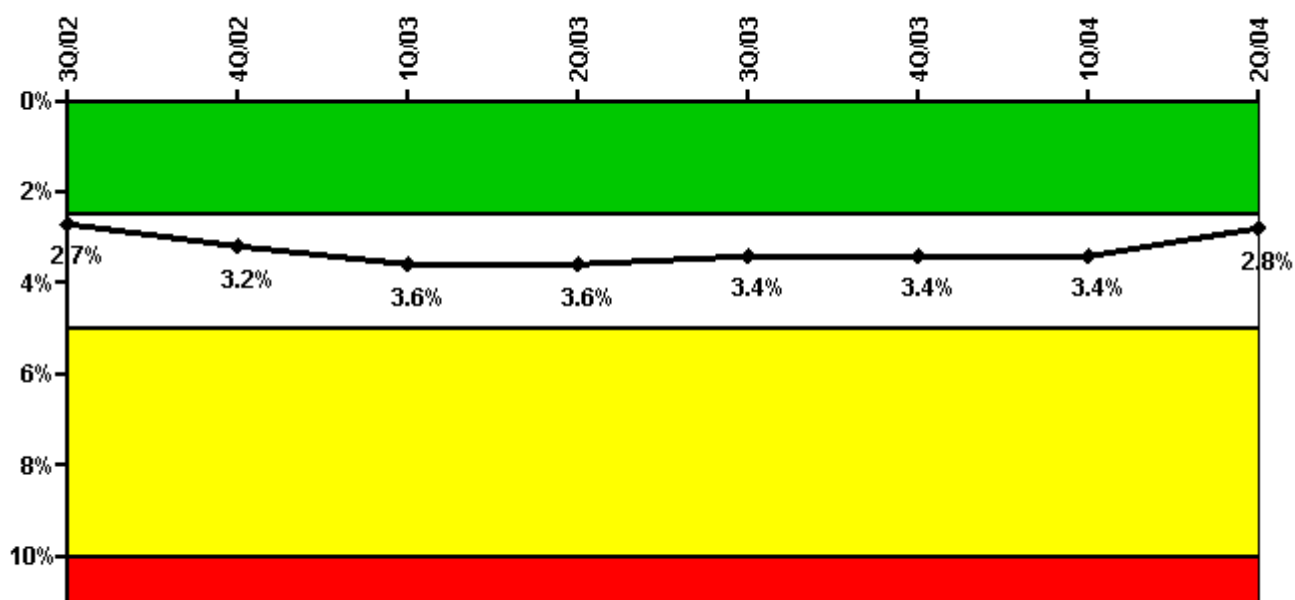
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned power changes	1.0	0	0	0	0	0	1.0	1.0
Critical hours	2208.0	2209.0	1869.5	855.8	2147.7	2008.7	2184.0	2183.0
Indicator value	0.9	0.8	0.8	1.0	0	0	1.0	1.6

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



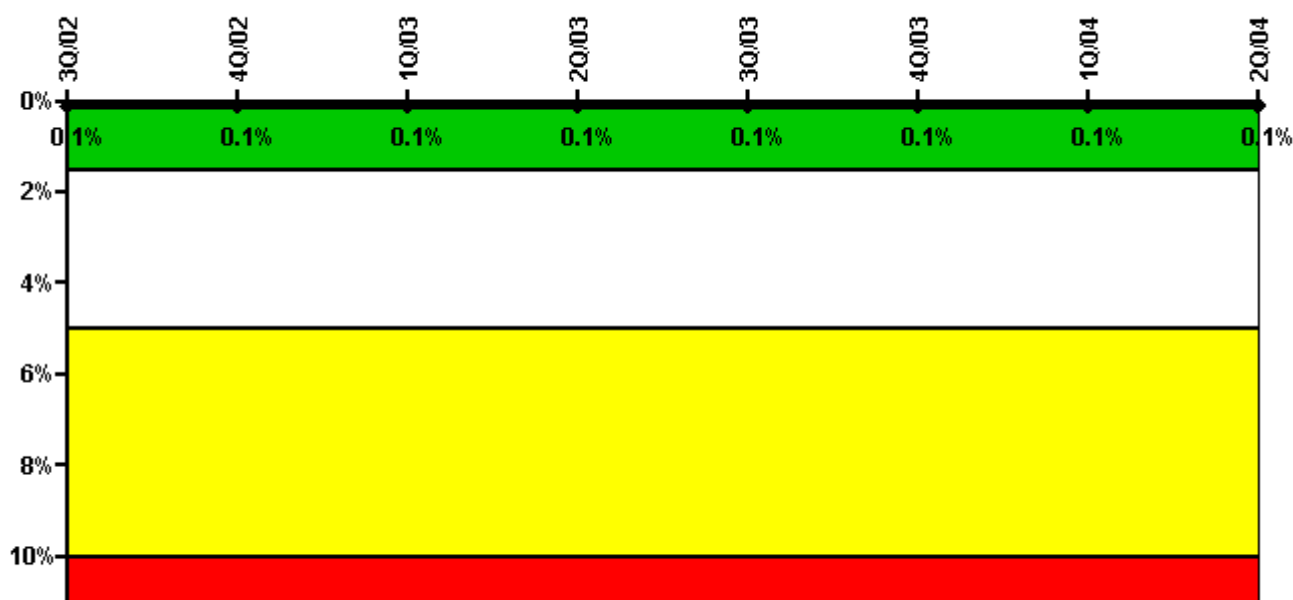
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	15.88	78.67	84.65	15.03	12.37	11.25	12.45	16.57
Unplanned unavailable hours	0	0	0	0	2.95	0	3.83	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1963.67	983.09	2208.00	2055.52	2184.00	2183.00
Train 2								
Planned unavailable hours	23.20	138.04	10.36	10.49	18.78	23.33	21.23	18.94
Unplanned unavailable hours	9.50	85.35	120.18	7.42	0	0	0	9.23
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1963.67	983.09	2208.00	2055.52	2184.00	2183.00
Indicator value	2.7%	3.2%	3.6%	3.6%	3.4%	3.4%	3.4%	2.8%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



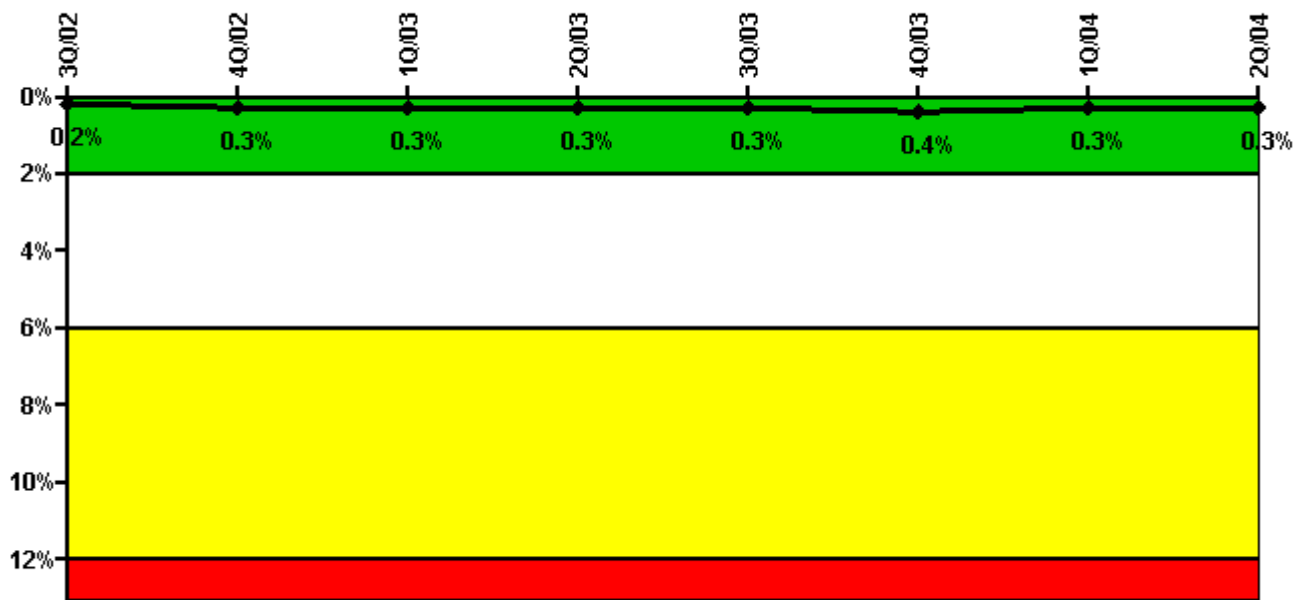
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	0	0.57	0	0	1.65	1.18	0	5.03
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	2208.00	2209.00	2160.00	1048.50	2208.00	2007.00	2184.00	2183.00
Train 2								
Planned unavailable hours	3.06	0.32	1.83	21.50	1.27	11.10	1.85	3.02
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	1048.50	2208.00	2007.00	2184.00	2183.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



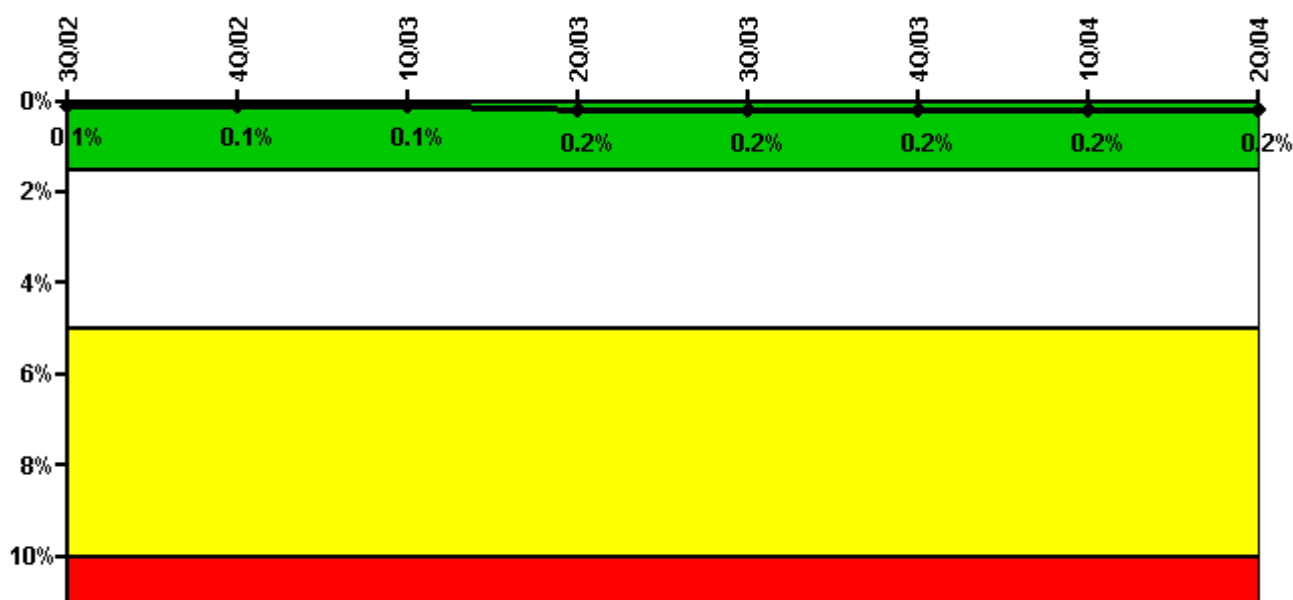
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	1.80	2.78	0.88	2.90	2.03	14.03	0.80	1.22
Unplanned unavailable hours	0	10.90	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	1164.50	2208.00	2208.00	2184.00	2183.00
Train 2								
Planned unavailable hours	1.47	1.38	1.20	0	1.05	1.65	10.00	1.35
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	1164.50	2208.00	2208.00	2184.00	2183.00
Train 3								
Planned unavailable hours	0.75	3.18	2.50	0	12.00	35.52	1.65	1.58
Unplanned unavailable hours	0	0	71.30	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	2208.00	2209.00	1951.00	981.50	2208.00	2007.00	2184.00	2183.00
Indicator value	0.2%	0.3%	0.3%	0.3%	0.3%	0.4%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

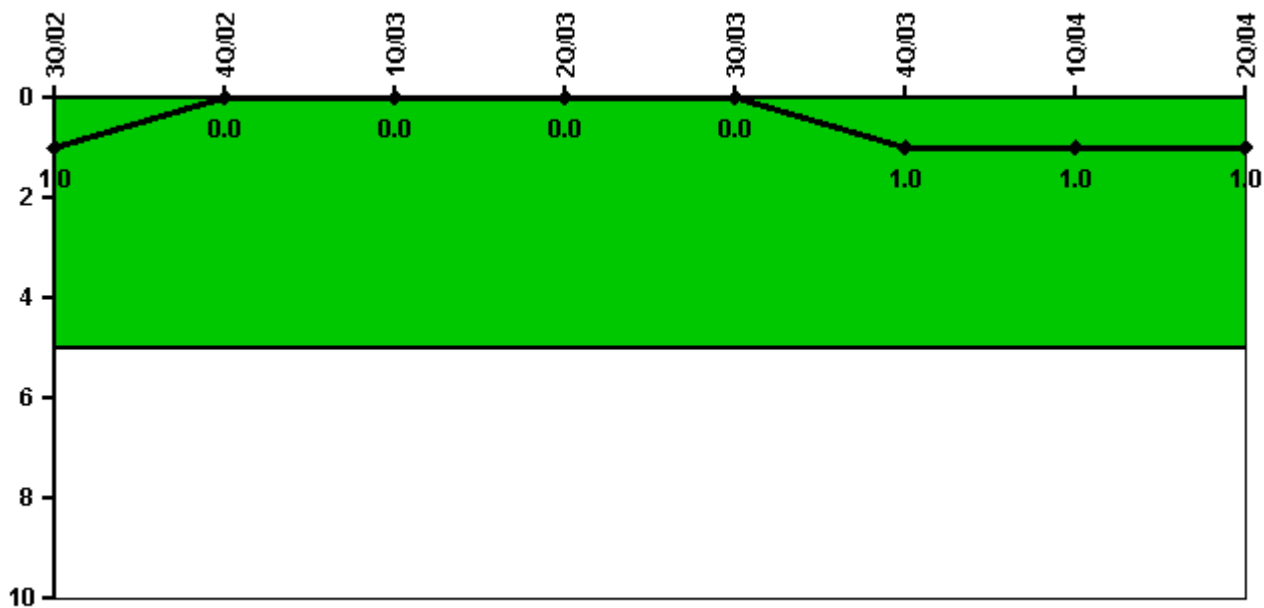


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	0.07	0.08	15.91	0.30	0.13	0.55	0.10	0.48
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	2209.00	1870.00	867.00	2208.00	2208.00	2184.00	2183.00
Train 2								
Planned unavailable hours	1.30	0.07	23.02	51.80	5.90	0.70	0.10	0.58
Unplanned unavailable hours	0	0	0	0	0.32	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	2209.00	1870.00	867.00	2208.00	2208.00	2184.00	2183.00
Train 3								
Planned unavailable hours	0	0	0	8.35	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2042.00	1437.50	2208.00	2208.00	2184.00	2183.00
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	2208.00	2209.00	2042.00	1437.50	2208.00	2208.00	2184.00	2183.00
Indicator value	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.2%

Safety System Functional Failures (PWR)



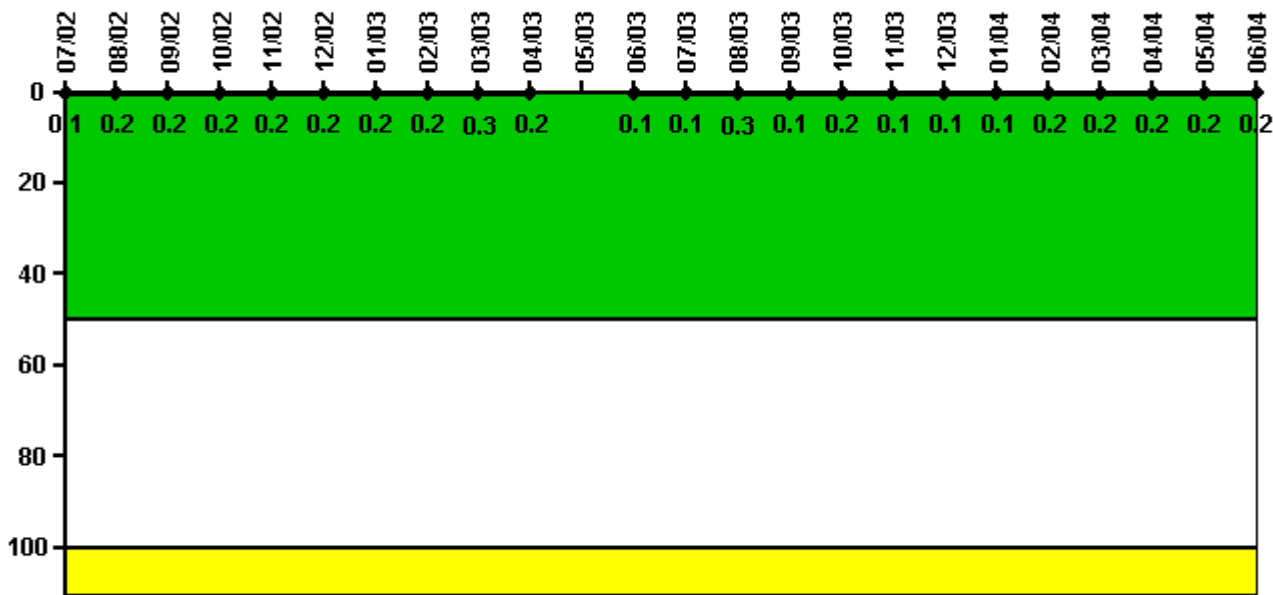
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

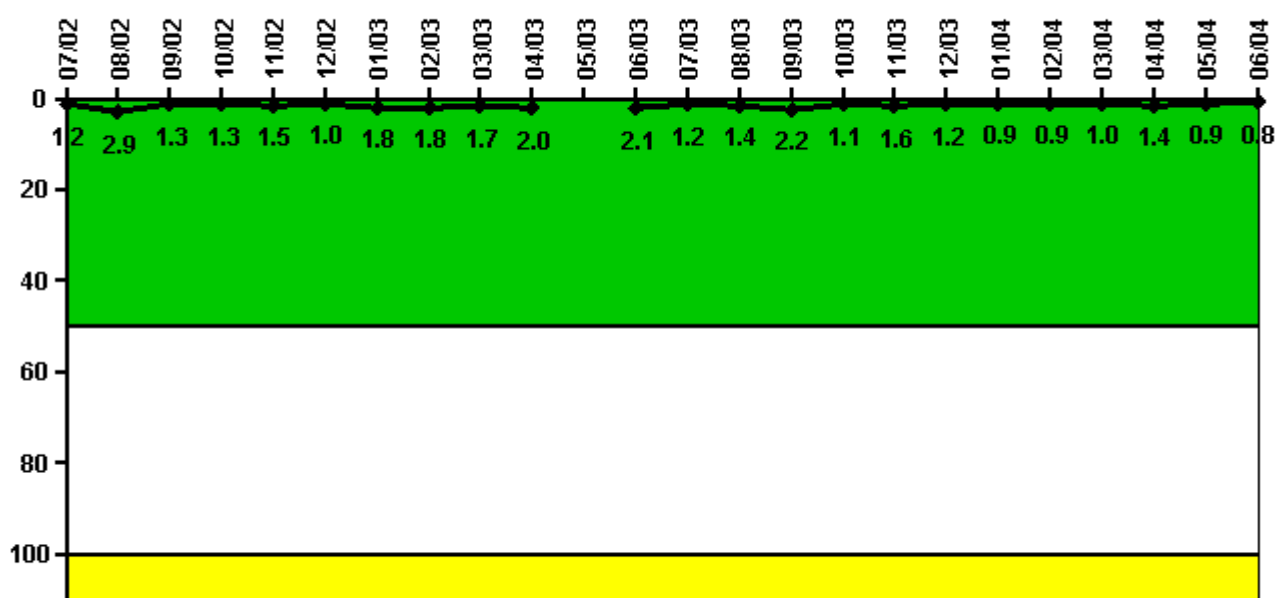
Notes

Reactor Coolant System Activity	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum activity	0.001390	0.002360	0.001630	0.001700	0.001780	0.001920	0.001870	0.001920	0.002810	0.002100	N/A	0.000956
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	N/A	0.1

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	0.001080	0.002690	0.001380	0.002180	0.001300	0.001400	0.001420	0.001540	0.001670	0.001720	0.001700	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	0.1	0.3	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



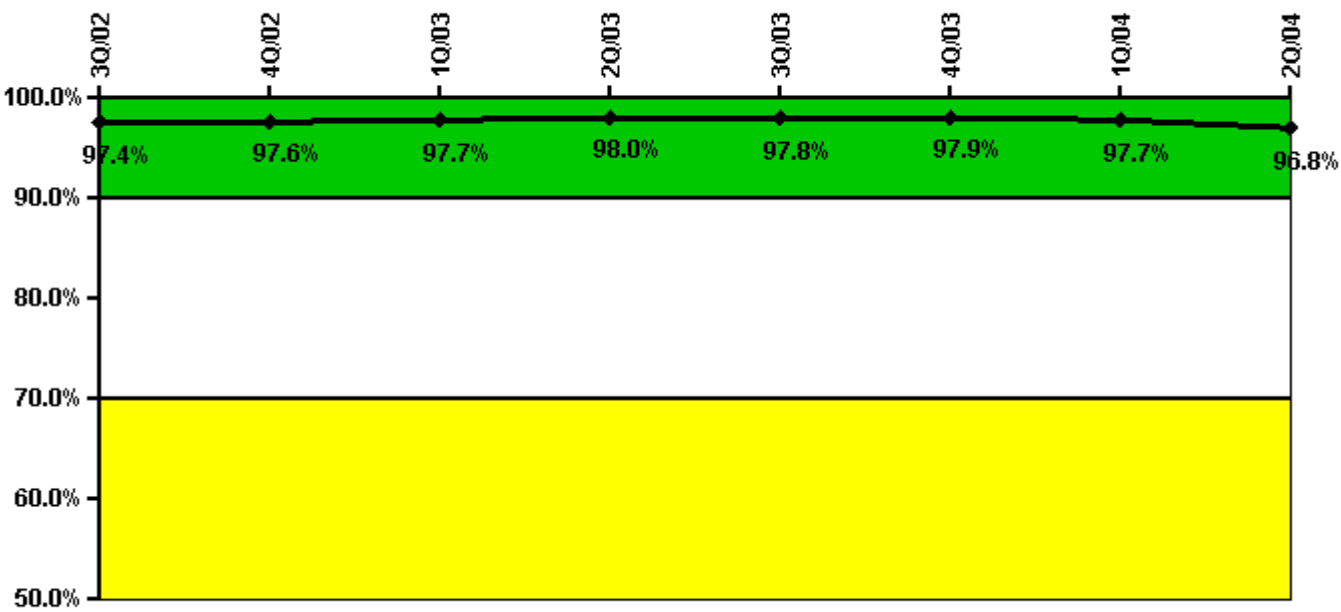
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.120	0.290	0.130	0.130	0.150	0.100	0.180	0.180	0.170	0.200	N/A	0.210
Technical specification limit	10.0	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	2.9	1.3	1.3	1.5	1.0	1.8	1.8	1.7	2.0	N/A	2.1
Reactor Coolant System Leakage	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum leakage	0.120	0.140	0.220	0.110	0.160	0.120	0.090	0.090	0.100	0.140	0.090	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.2	1.4	2.2	1.1	1.6	1.2	0.9	0.9	1.0	1.4	0.9	0.8

Licensee Comments: none

Drill/Exercise Performance



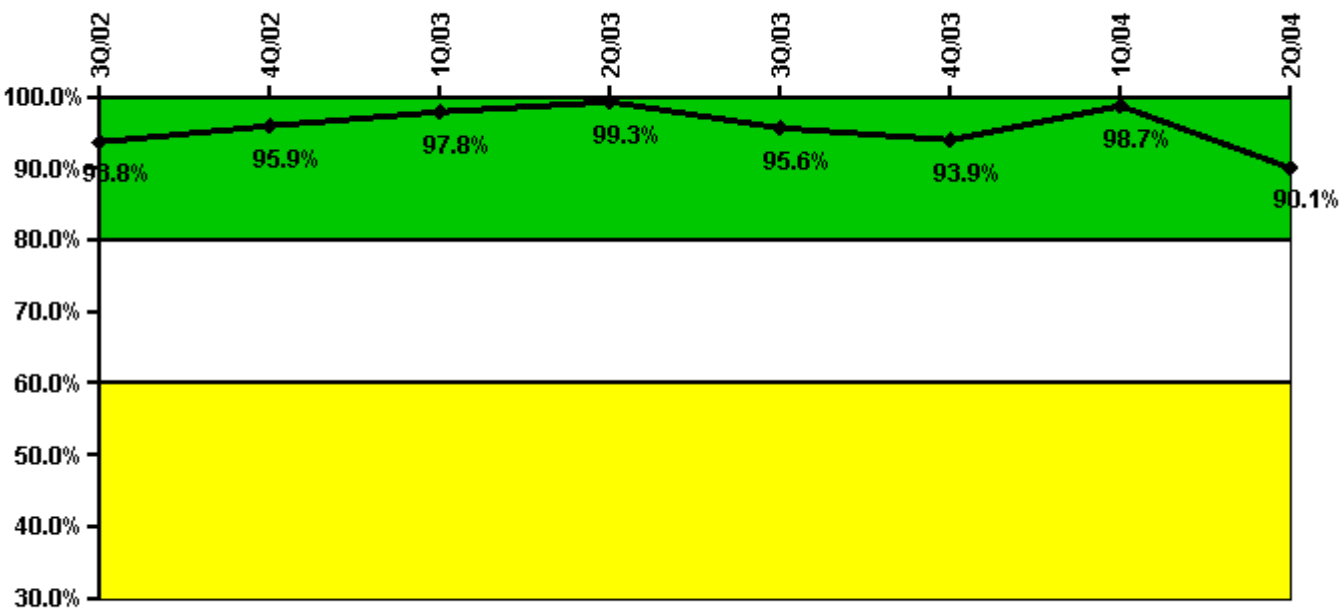
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful opportunities	54.0	18.0	14.0	48.0	51.0	0	16.0	12.0
Total opportunities	56.0	18.0	14.0	49.0	54.0	0	16.0	13.0
Indicator value	97.4%	97.6%	97.7%	98.0%	97.8%	97.9%	97.7%	96.8%

Licensee Comments: none

ERO Drill Participation



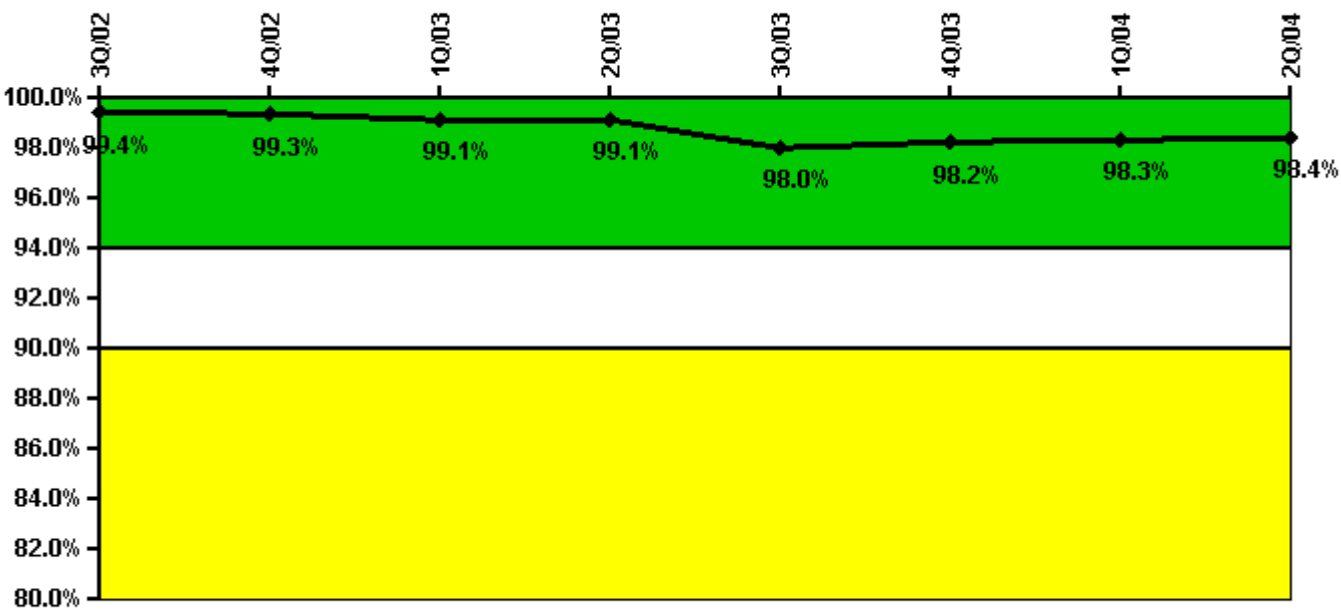
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Participating Key personnel	135.0	140.0	136.0	137.0	152.0	154.0	156.0	145.0
Total Key personnel	144.0	146.0	139.0	138.0	159.0	164.0	158.0	161.0
Indicator value	93.8%	95.9%	97.8%	99.3%	95.6%	93.9%	98.7%	90.1%

Licensee Comments: none

Alert & Notification System



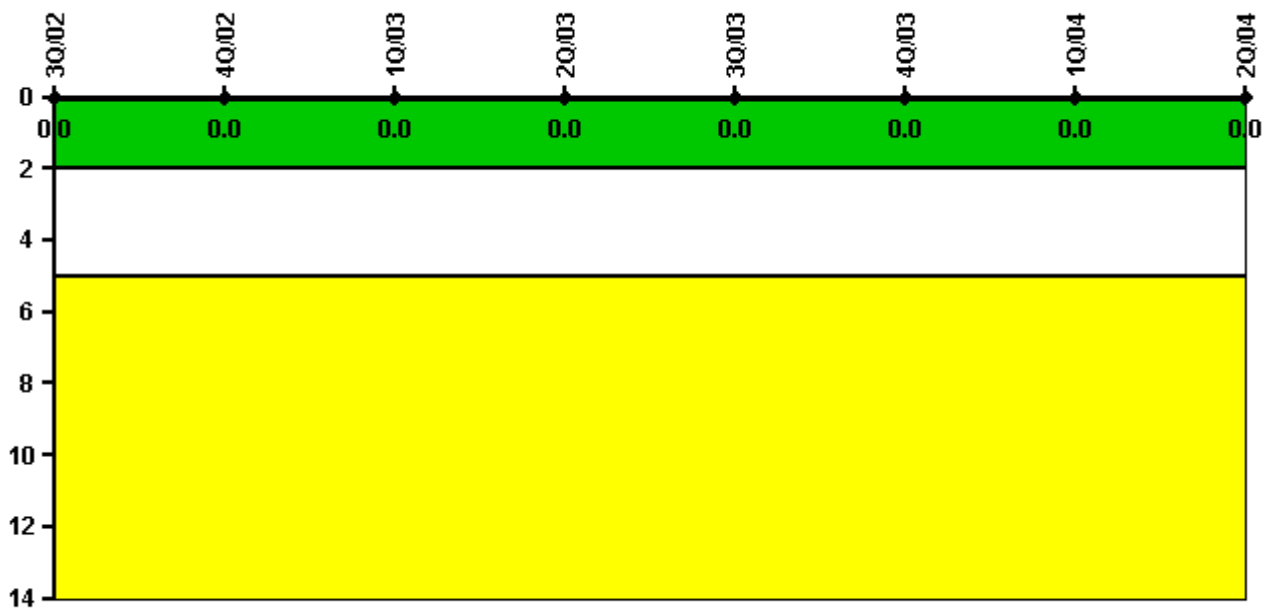
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful siren-tests	453	514	525	531	510	600	467	533
Total sirens-tests	455	520	530	536	536	603	469	536
Indicator value	99.4%	99.3%	99.1%	99.1%	98.0%	98.2%	98.3%	98.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness

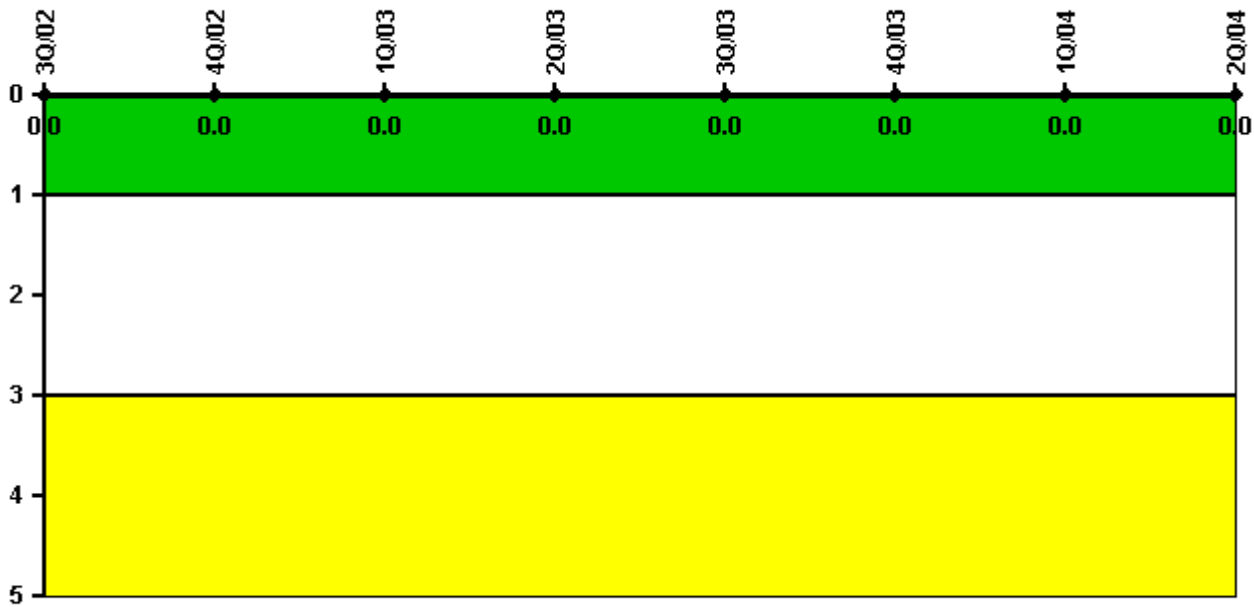


Thresholds: White > 2.0 Yellow > 5.0

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.

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

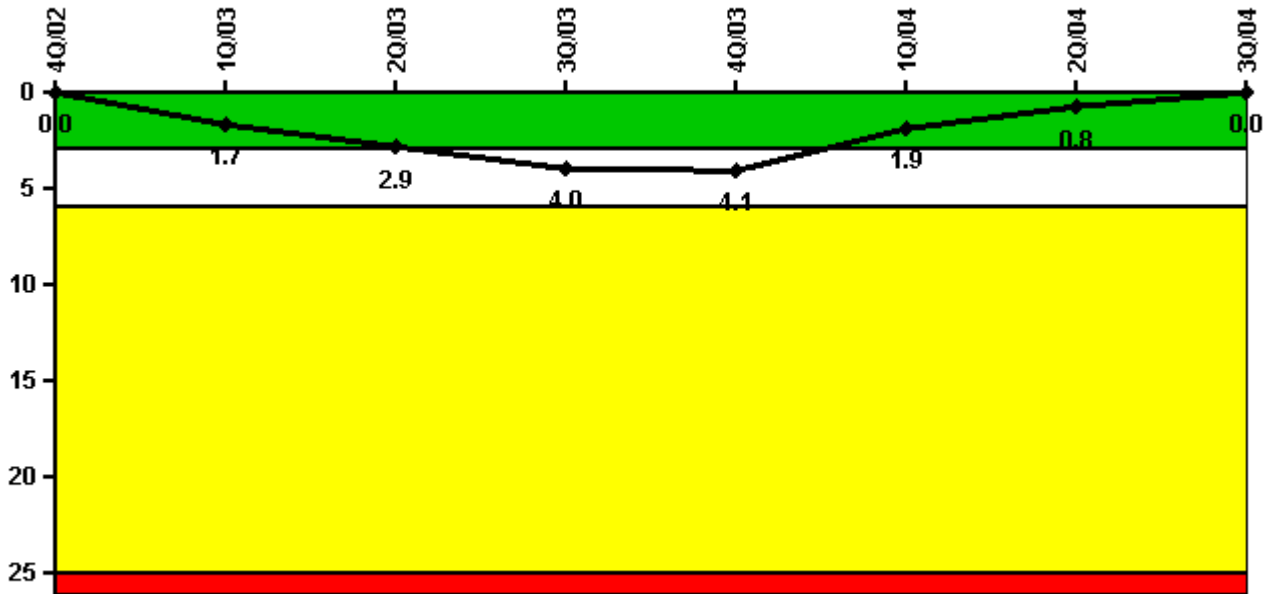
Last Modified: September 8, 2004

Surry 1

3Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



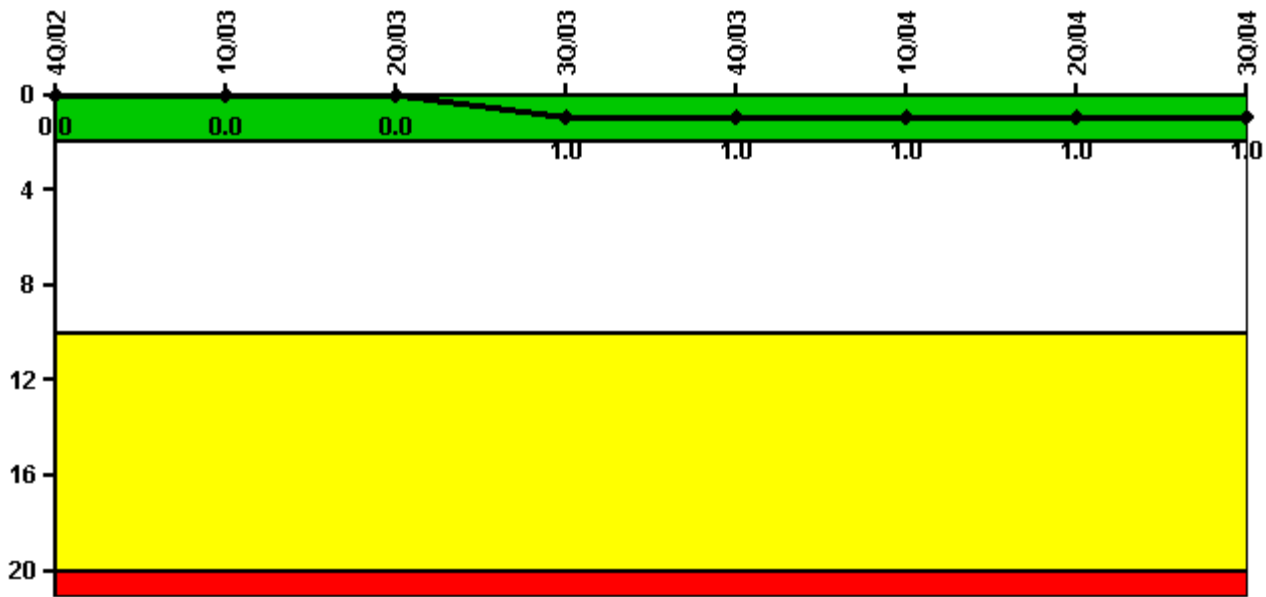
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned scrams	0	2.0	1.0	1.0	0	0	0	0
Critical hours	2209.0	1869.5	855.8	2147.7	2008.7	2184.0	2183.0	2208.0
Indicator value	0	1.7	2.9	4.0	4.1	1.9	0.8	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



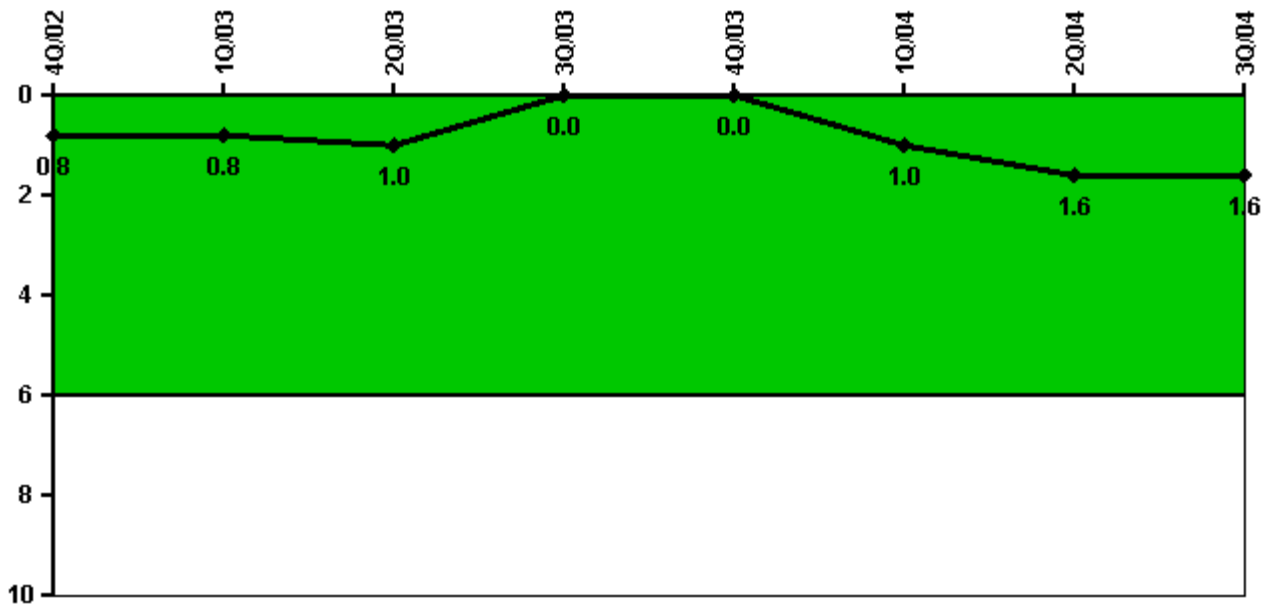
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



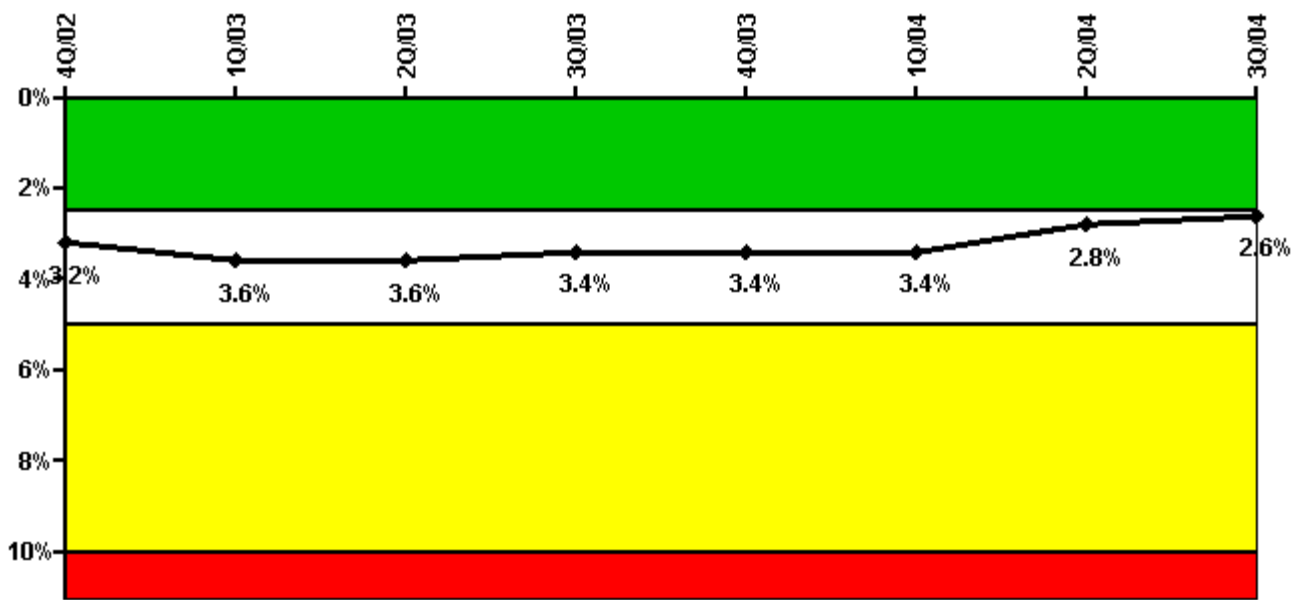
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned power changes	0	0	0	0	0	1.0	1.0	0
Critical hours	2209.0	1869.5	855.8	2147.7	2008.7	2184.0	2183.0	2208.0
Indicator value	0.8	0.8	1.0	0	0	1.0	1.6	1.6

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



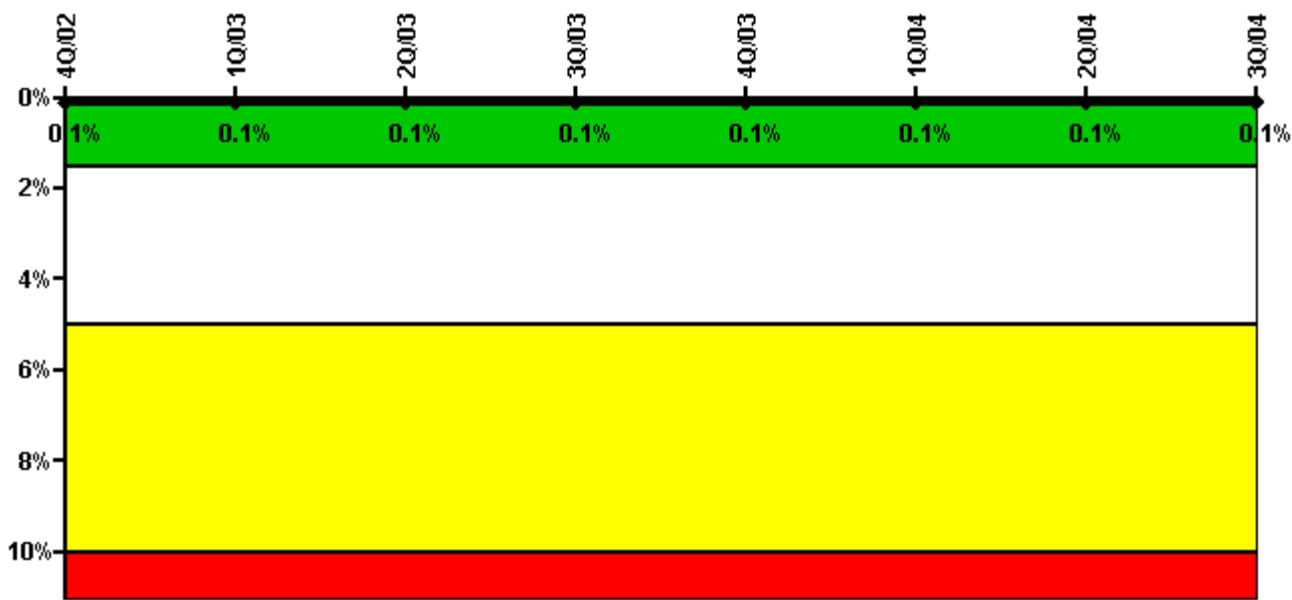
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	78.67	84.65	15.03	12.37	11.25	12.45	16.57	17.50
Unplanned unavailable hours	0	0	0	2.95	0	3.83	0	31.00
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1963.67	983.09	2208.00	2055.52	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	138.04	10.36	10.49	18.78	23.33	21.23	18.94	22.14
Unplanned unavailable hours	85.35	120.18	7.42	0	0	0	9.23	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1963.67	983.09	2208.00	2055.52	2184.00	2183.00	2208.00
Indicator value	3.2%	3.6%	3.6%	3.4%	3.4%	3.4%	2.8%	2.6%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



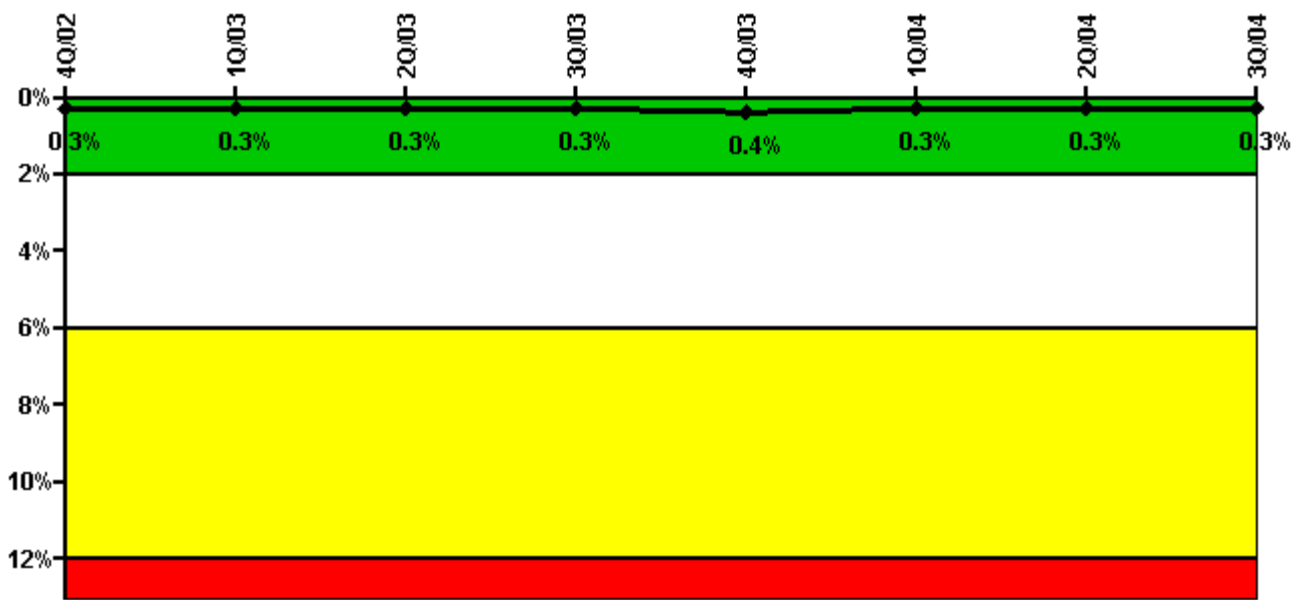
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	0.57	0	0	1.65	1.18	0	5.03	2.36
Unplanned unavailable hours	0	0	0	0	0	0	0	0
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	1048.50	2208.00	2007.00	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0.32	1.83	21.50	1.27	11.10	1.85	3.02	1.25
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	1048.50	2208.00	2007.00	2184.00	2183.00	2208.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

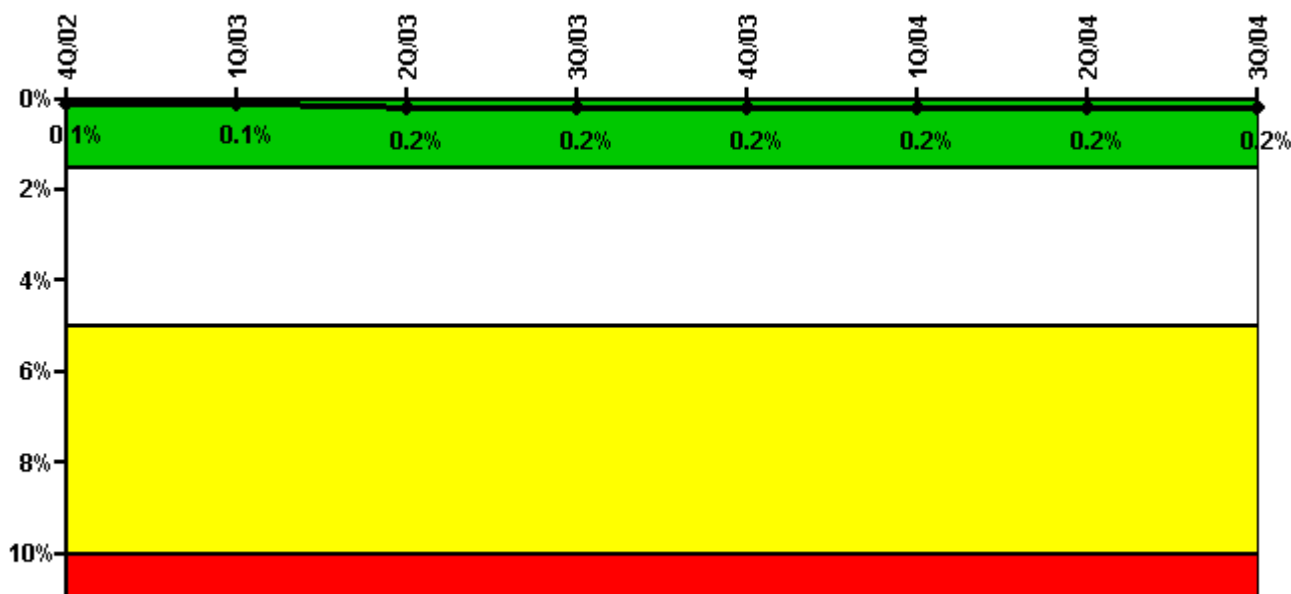
Notes

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	2.78	0.88	2.90	2.03	14.03	0.80	0.60	1.18
Unplanned unavailable hours	10.90	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	1164.50	2208.00	2208.00	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	1.38	1.20	0	1.05	1.65	10.00	1.35	1.58
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	1164.50	2208.00	2208.00	2184.00	2183.00	2208.00
Train 3								
Planned unavailable hours	3.18	2.50	0	12.00	35.52	1.65	1.58	15.15
Unplanned unavailable hours	0	71.30	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	2209.00	1951.00	981.50	2208.00	2007.00	2184.00	2183.00	2208.00
Indicator value	0.3%	0.3%	0.3%	0.3%	0.4%	0.3%	0.3%	0.3%

Licensee Comments:

3Q/04: A self-assessment revealed data entered for June 2004 was inaccurate. Data was corrected with no change in color.

Safety System Unavailability, Residual Heat Removal System



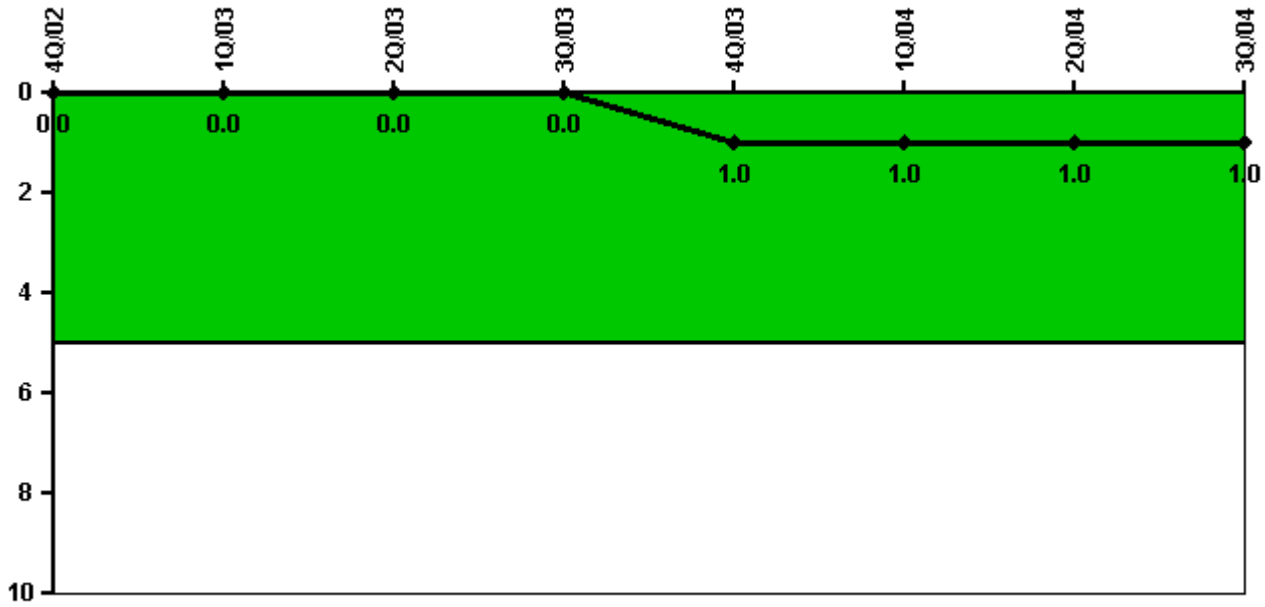
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	0.08	15.91	0.30	0.13	0.55	0.10	0.48	19.40
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1870.00	867.00	2208.00	2208.00	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0.07	23.02	51.80	5.90	0.70	0.10	0.58	10.89
Unplanned unavailable hours	0	0	0	0.32	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	2209.00	1870.00	867.00	2208.00	2208.00	2184.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	0	8.35	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	2042.00	1437.50	2208.00	2208.00	2184.00	2183.00	2208.00
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	2209.00	2042.00	1437.50	2208.00	2208.00	2184.00	2183.00	2208.00
Indicator value	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)



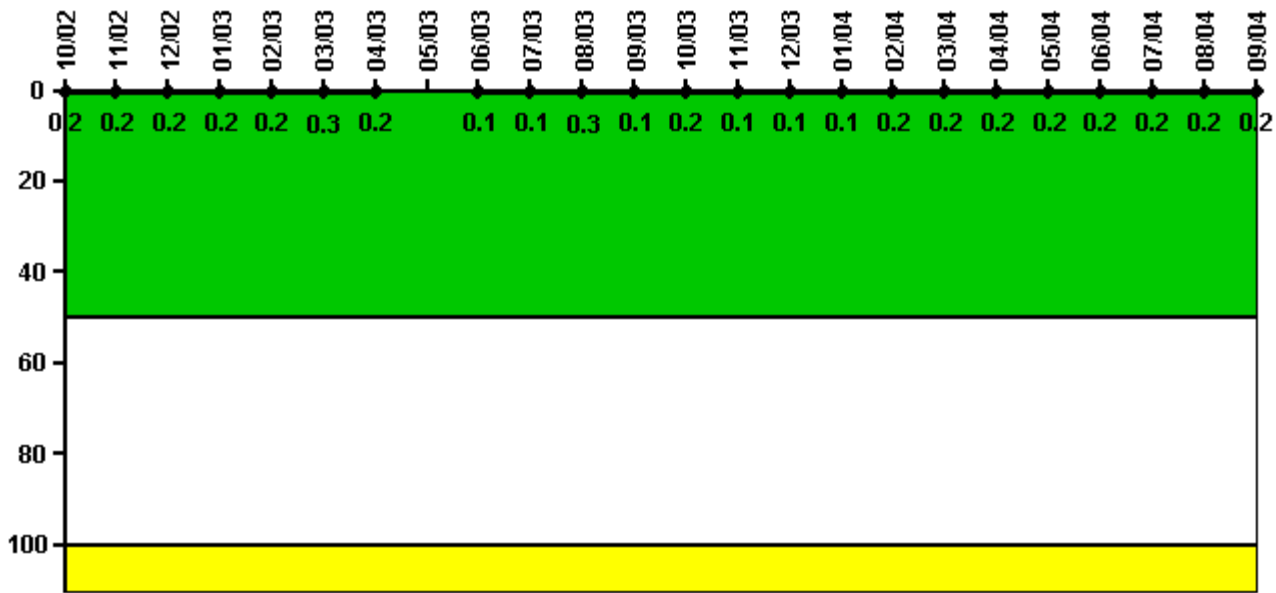
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

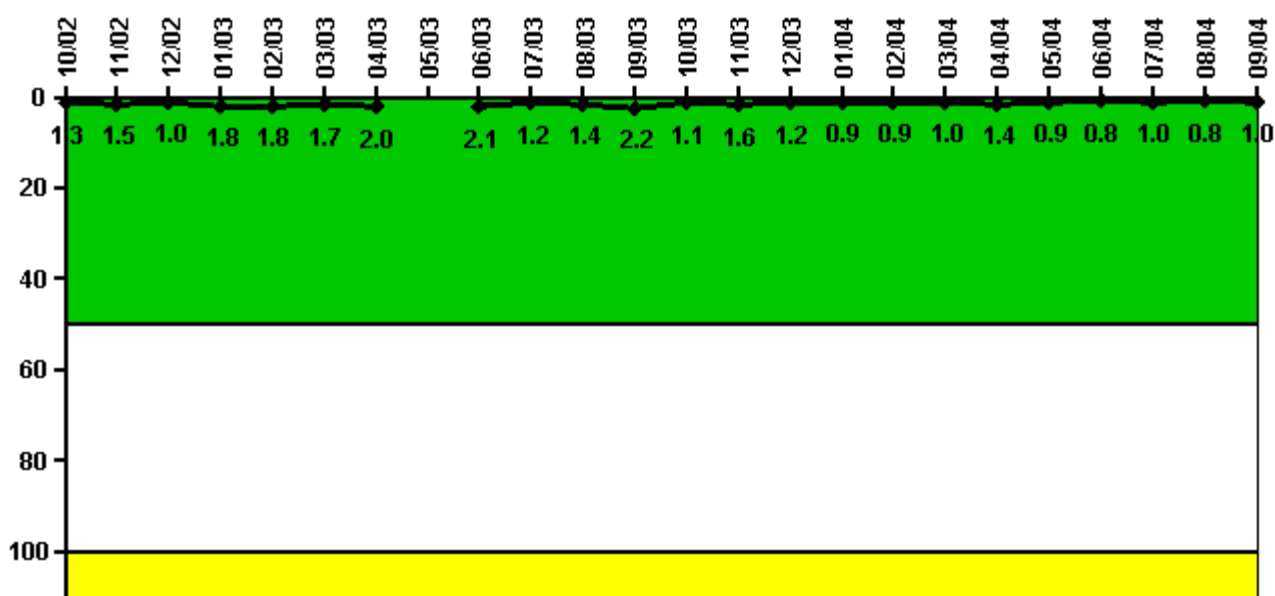
Notes

Reactor Coolant System Activity	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum activity	0.001700	0.001780	0.001920	0.001870	0.001920	0.002810	0.002100	N/A	0.000956	0.001080	0.002690	0.001380
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0.2	0.2	0.3	0.2	N/A	0.1	0.1	0.3	0.1

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	0.002180	0.001300	0.001400	0.001420	0.001540	0.001670	0.001720	0.001700	0.001710	0.001780	0.002040	0.001980
Technical specification limit	1.0	1.0	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



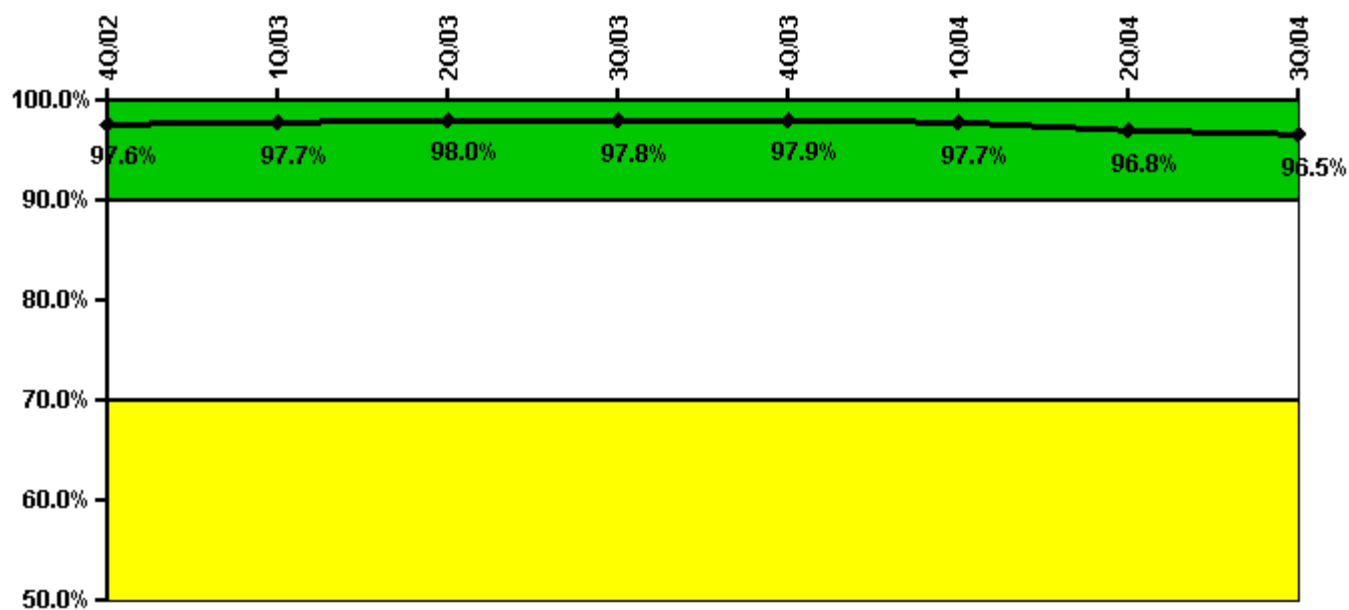
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.130	0.150	0.100	0.180	0.180	0.170	0.200	N/A	0.210	0.120	0.140	0.220
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.5	1.0	1.8	1.8	1.7	2.0	N/A	2.1	1.2	1.4	2.2
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	0.110	0.160	0.120	0.090	0.090	0.100	0.140	0.090	0.080	0.100	0.080	0.100
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.1	1.6	1.2	0.9	0.9	1.0	1.4	0.9	0.8	1.0	0.8	1.0

Licensee Comments: none

Drill/Exercise Performance



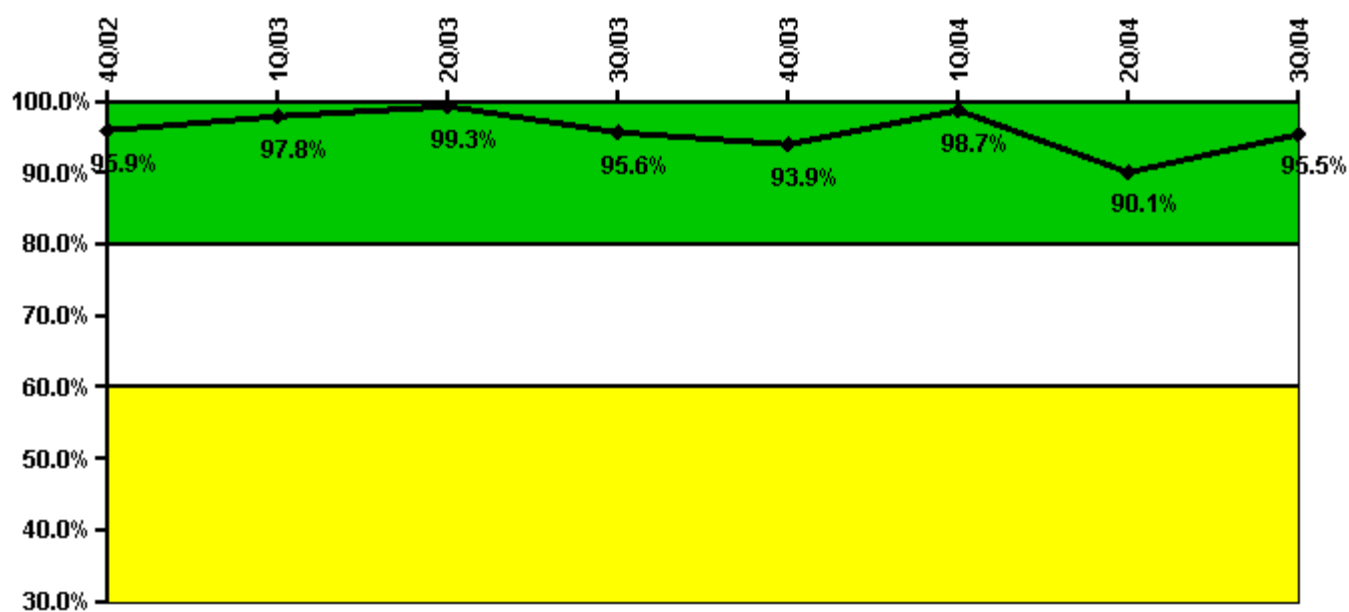
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful opportunities	18.0	14.0	48.0	51.0	0	16.0	12.0	32.0
Total opportunities	18.0	14.0	49.0	54.0	0	16.0	13.0	34.0
Indicator value	97.6%	97.7%	98.0%	97.8%	97.9%	97.7%	96.8%	96.5%

Licensee Comments: none

ERO Drill Participation



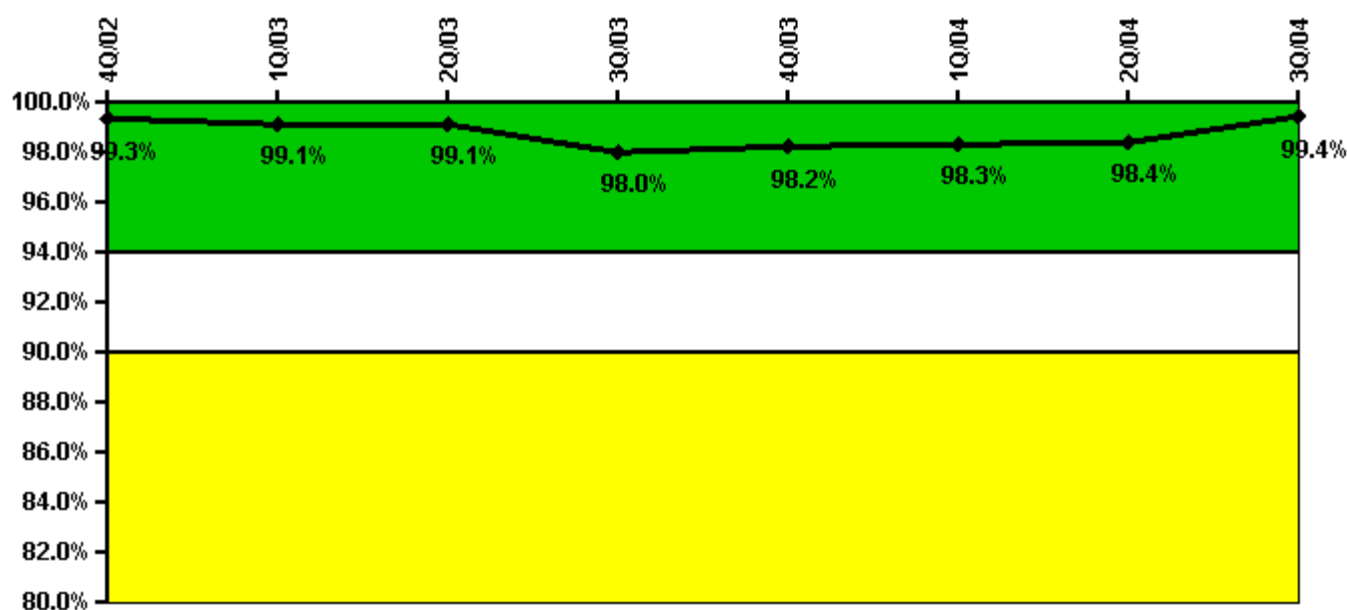
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Participating Key personnel	140.0	136.0	137.0	152.0	154.0	156.0	145.0	150.0
Total Key personnel	146.0	139.0	138.0	159.0	164.0	158.0	161.0	157.0
Indicator value	95.9%	97.8%	99.3%	95.6%	93.9%	98.7%	90.1%	95.5%

Licensee Comments: none

Alert & Notification System



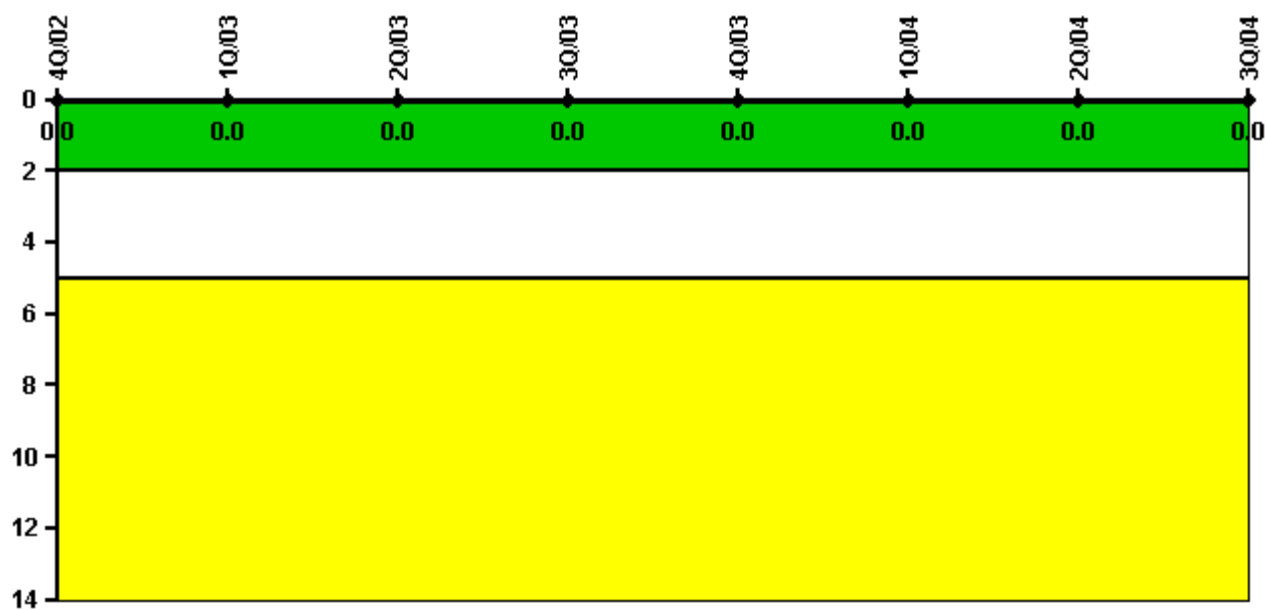
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful siren-tests	514	525	531	510	600	467	533	532
Total sirens-tests	520	530	536	536	603	469	536	536
Indicator value	99.3%	99.1%	99.1%	98.0%	98.2%	98.3%	98.4%	99.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness

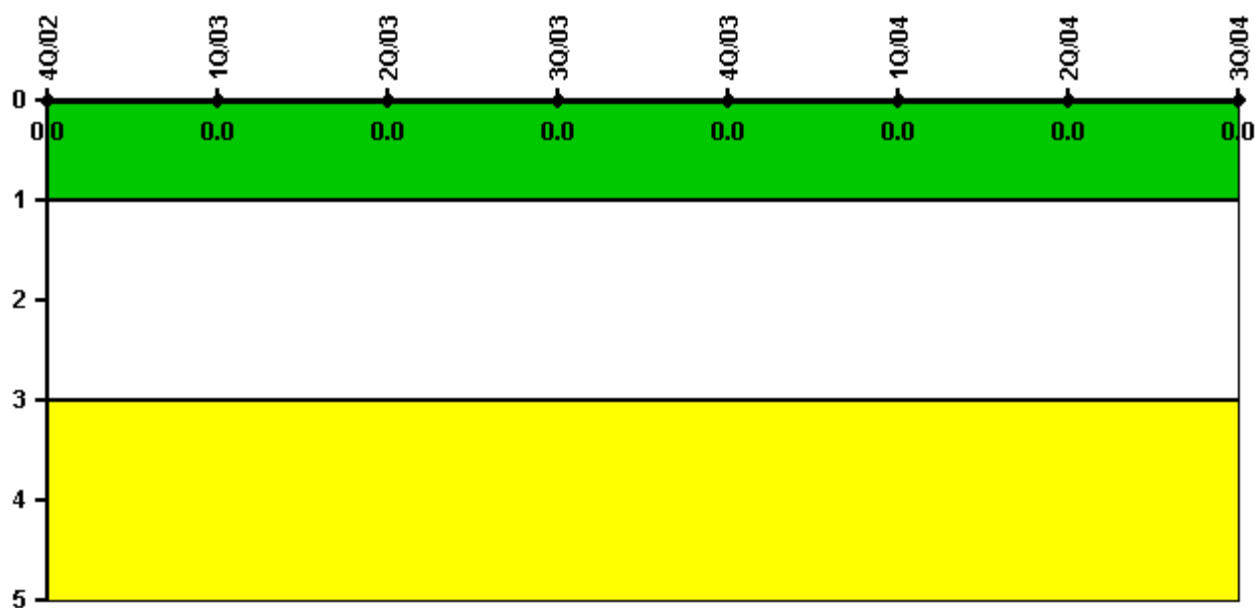


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

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

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

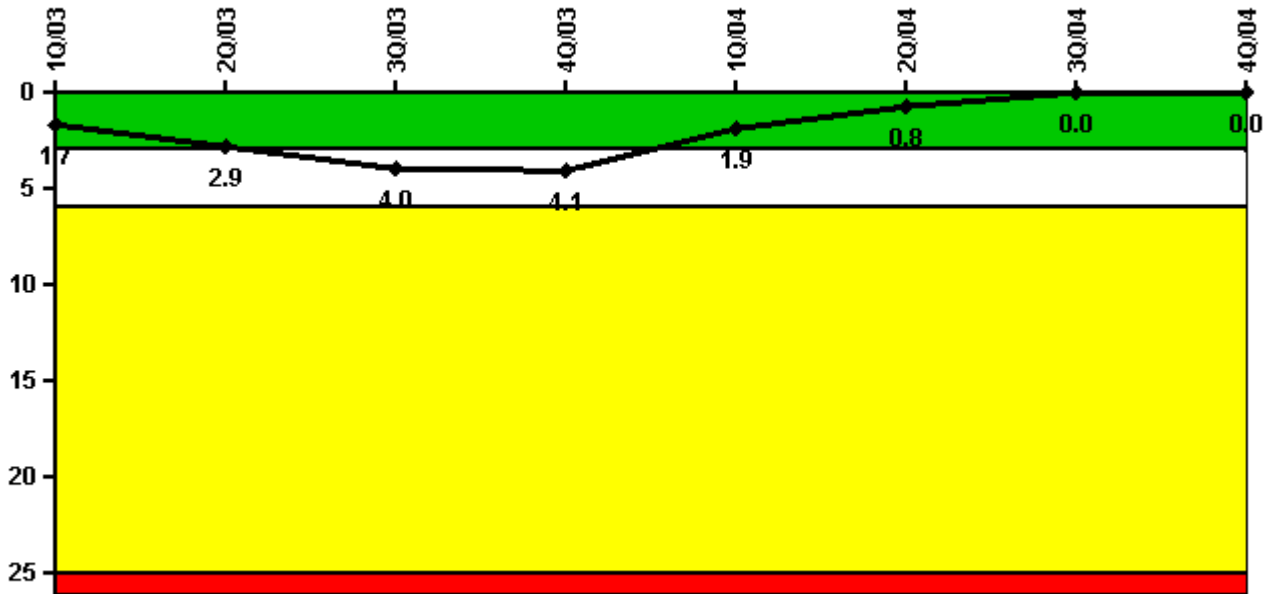
Last Modified: October 25, 2004

Surry 1

4Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



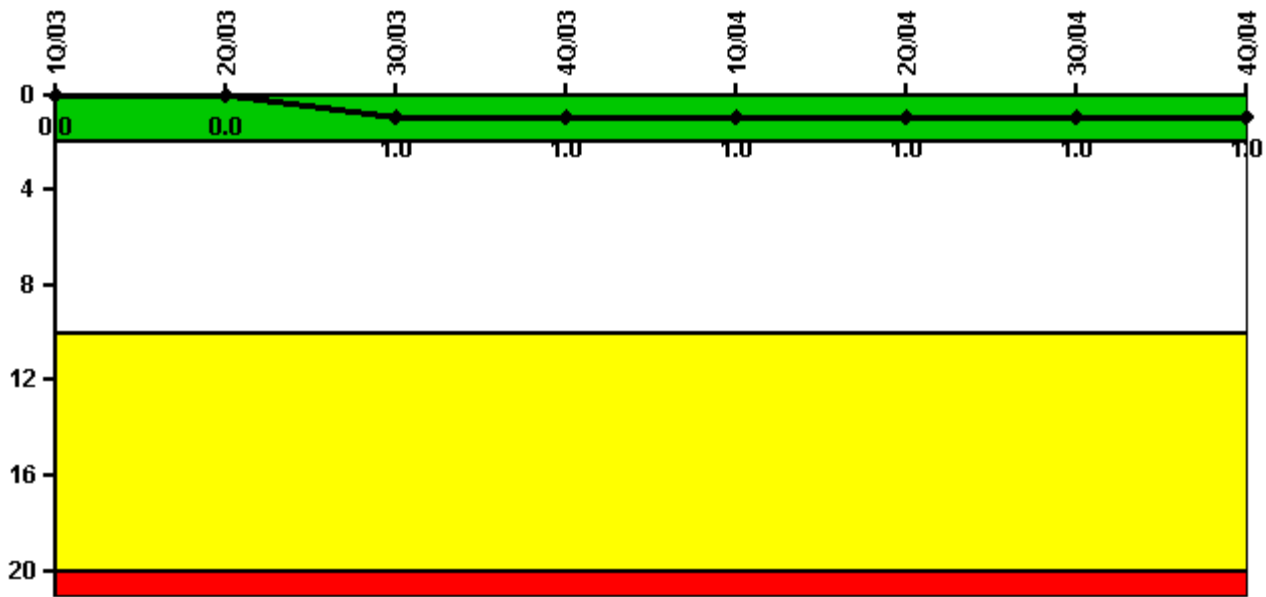
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned scrams	2.0	1.0	1.0	0	0	0	0	0
Critical hours	1869.5	855.8	2147.7	2008.7	2184.0	2183.0	2208.0	1422.9
Indicator value	1.7	2.9	4.0	4.1	1.9	0.8	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



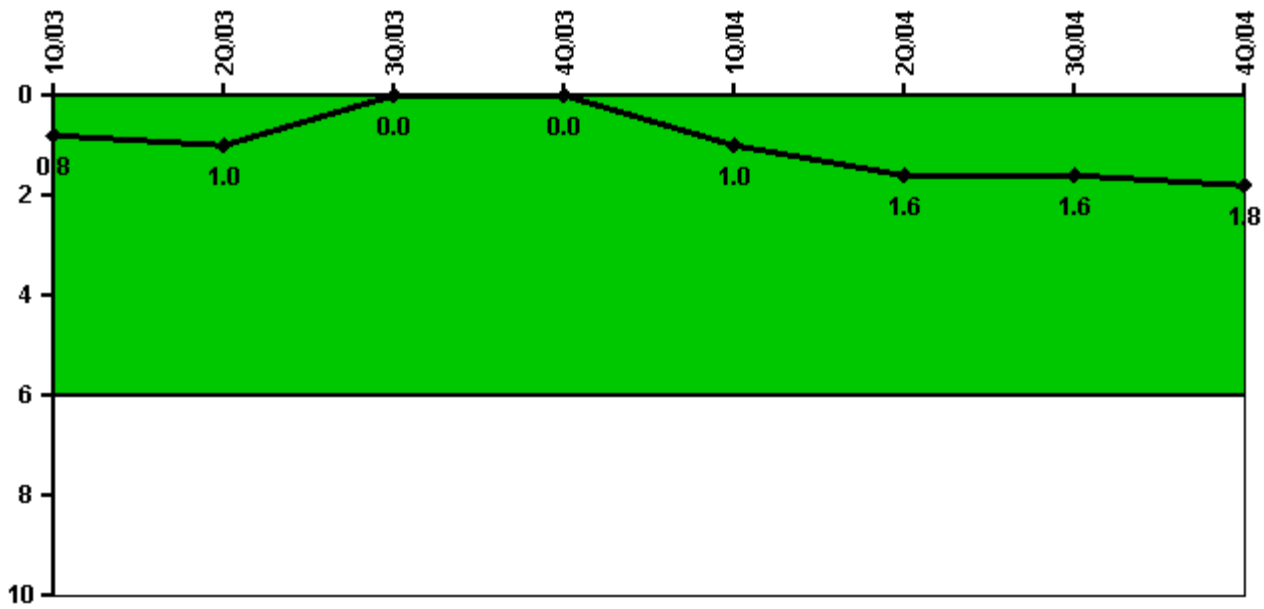
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



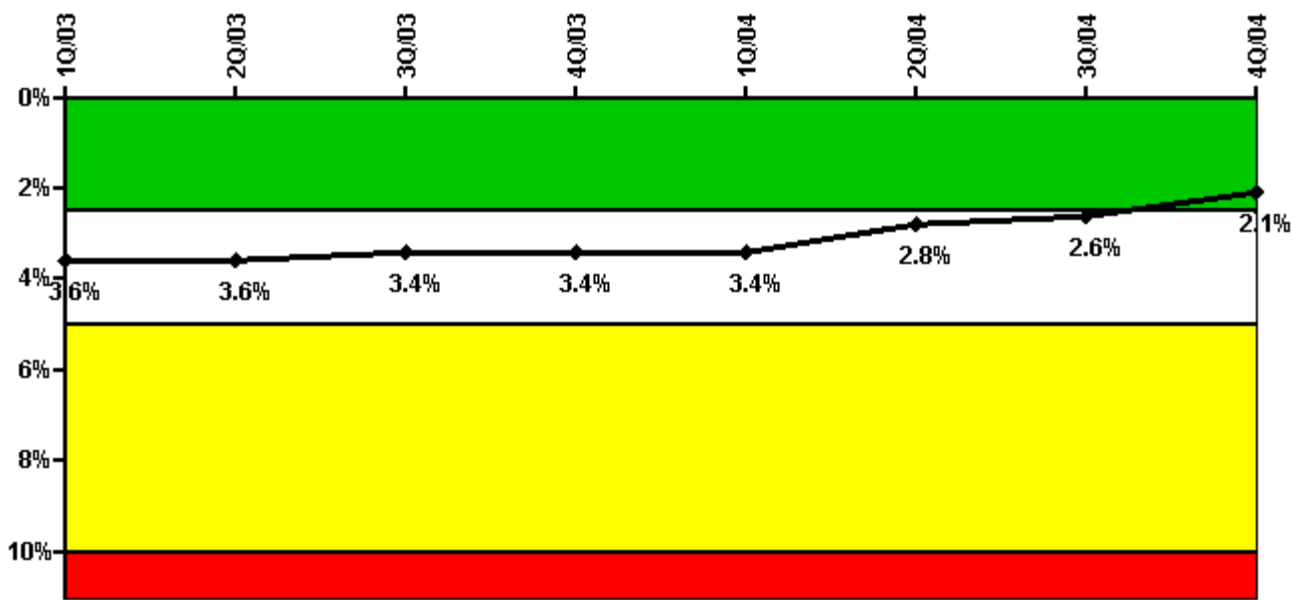
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned power changes	0	0	0	0	1.0	1.0	0	0
Critical hours	1869.5	855.8	2147.7	2008.7	2184.0	2183.0	2208.0	1422.9
Indicator value	0.8	1.0	0	0	1.0	1.6	1.6	1.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



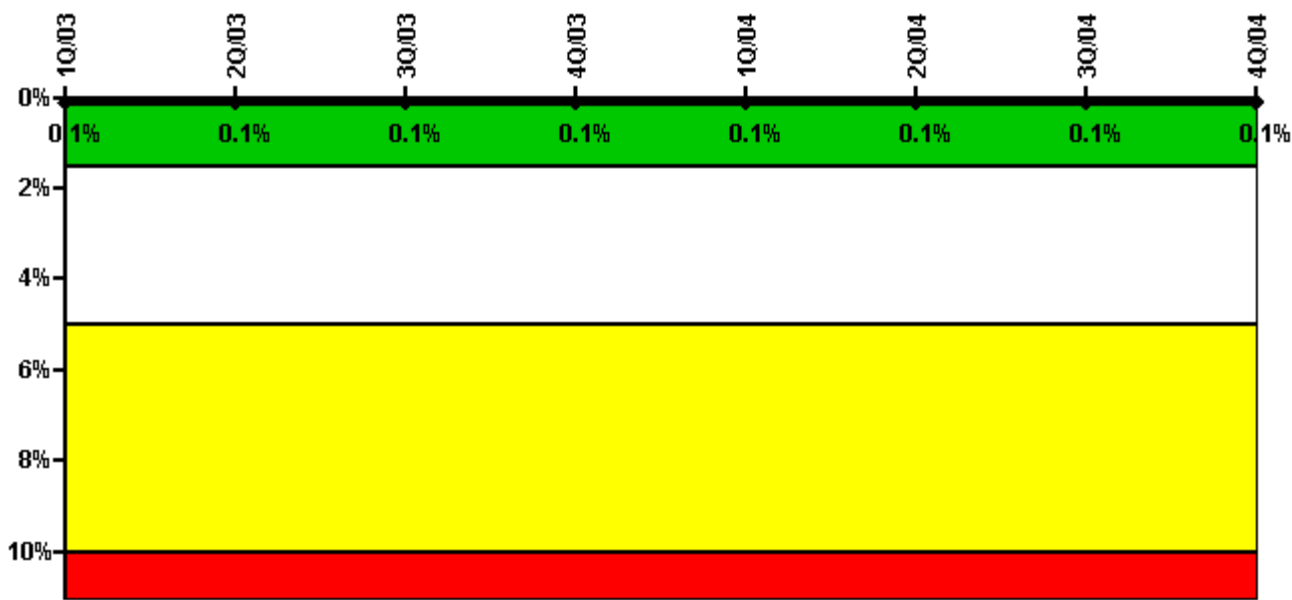
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	84.65	15.03	12.37	11.25	12.45	16.57	17.50	10.27
Unplanned unavailable hours	0	0	2.95	0	3.83	0	31.00	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1963.67	983.09	2208.00	2055.52	2184.00	2183.00	2208.00	1462.22
Train 2								
Planned unavailable hours	10.36	10.49	18.78	23.33	21.23	18.94	22.14	18.94
Unplanned unavailable hours	120.18	7.42	0	0	0	9.23	0	9.00
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1963.67	983.09	2208.00	2055.52	2184.00	2183.00	2208.00	1462.22
Indicator value	3.6%	3.6%	3.4%	3.4%	3.4%	2.8%	2.6%	2.1%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



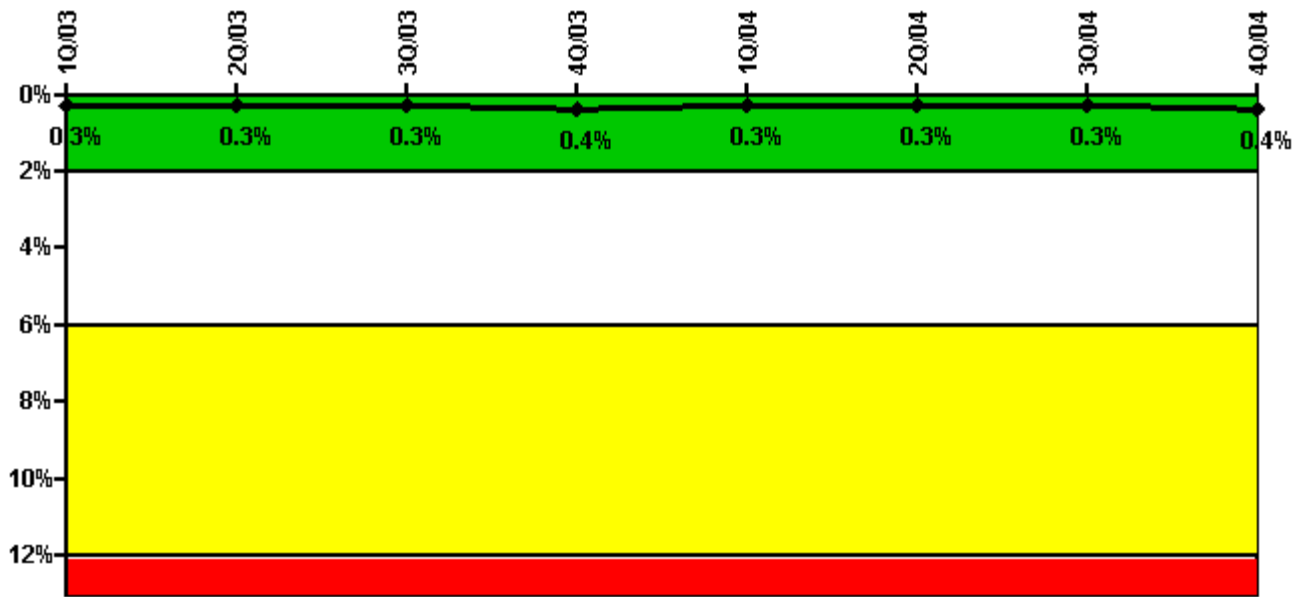
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	0	0	1.65	1.18	0	5.03	2.36	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	1048.50	2208.00	2007.00	2184.00	2183.00	2208.00	1422.90
Train 2								
Planned unavailable hours	1.83	21.50	1.27	11.10	1.85	3.02	1.25	7.30
Unplanned unavailable hours	0	0	0	0	0	0	0	0
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	1048.50	2208.00	2007.00	2184.00	2183.00	2208.00	1422.90
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

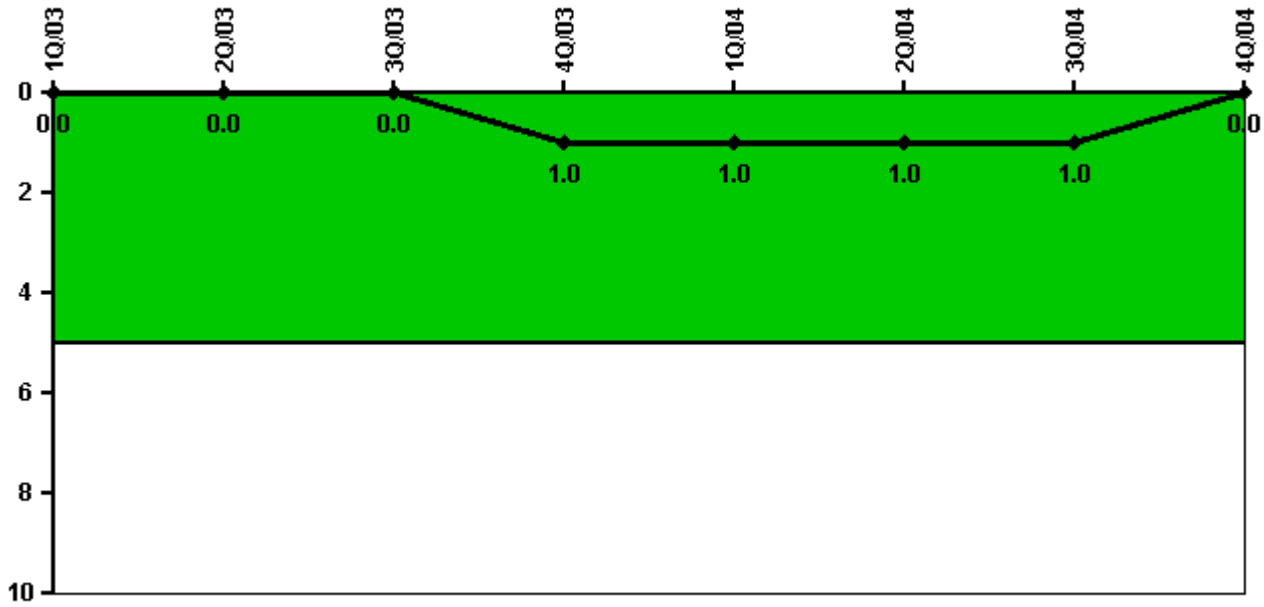
Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	0.88	2.90	2.03	14.03	0.80	0.60	1.18	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1164.50	2208.00	2208.00	2184.00	2183.00	2208.00	1462.20
Train 2								
Planned unavailable hours	1.20	0	1.05	1.65	10.00	1.35	1.58	2.85
Unplanned unavailable hours	0	0	0	0	0	0	0	9.98
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1164.50	2208.00	2208.00	2184.00	2183.00	2208.00	1462.20
Train 3								
Planned unavailable hours	2.50	0	12.00	35.52	1.65	1.58	15.15	1.20
Unplanned unavailable hours	71.30	0	0	0	0	0	0	17.71
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1951.00	981.50	2208.00	2007.00	2184.00	2183.00	2208.00	1441.60
Indicator value	0.3%	0.3%	0.3%	0.4%	0.3%	0.3%	0.3%	0.4%

Licensee Comments: none

Licensee Comments: none

Safety System Functional Failures (PWR)



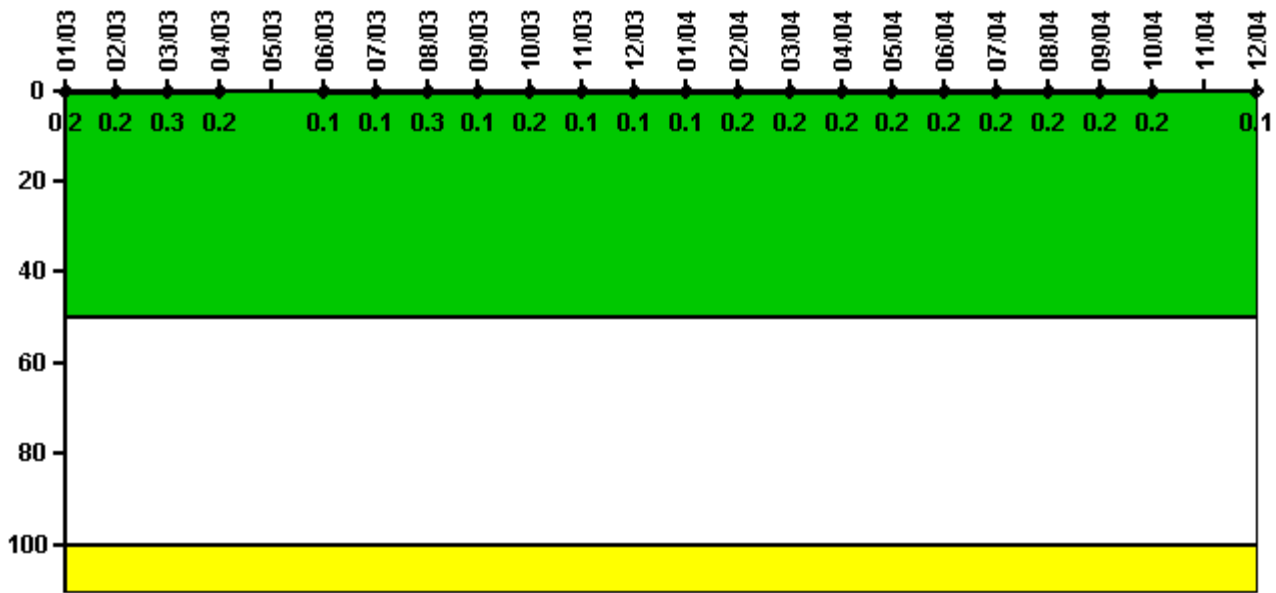
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

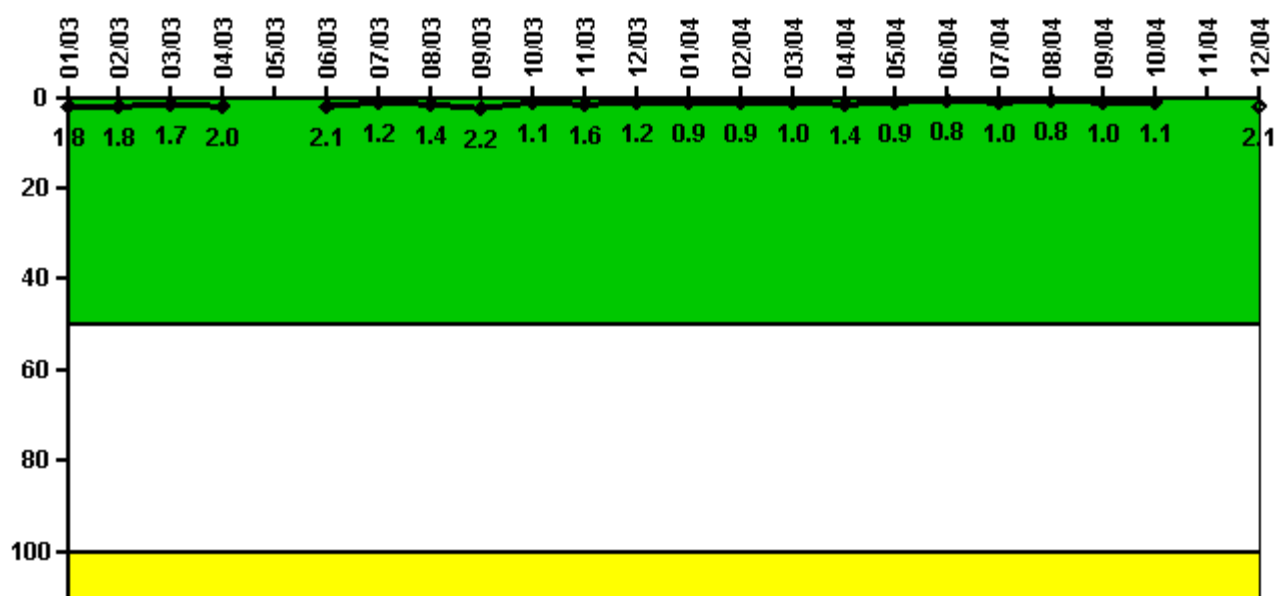
Notes

Reactor Coolant System Activity	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum activity	0.001870	0.001920	0.002810	0.002100	N/A	0.000956	0.001080	0.002690	0.001380	0.002180	0.001300	0.001400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.3	0.2	N/A	0.1	0.1	0.3	0.1	0.2	0.1	0.1

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	0.001420	0.001540	0.001670	0.001720	0.001700	0.001710	0.001780	0.002040	0.001980	0.002010	N/A	0.000968
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N/A	0.1

Licensee Comments: none

Reactor Coolant System Leakage



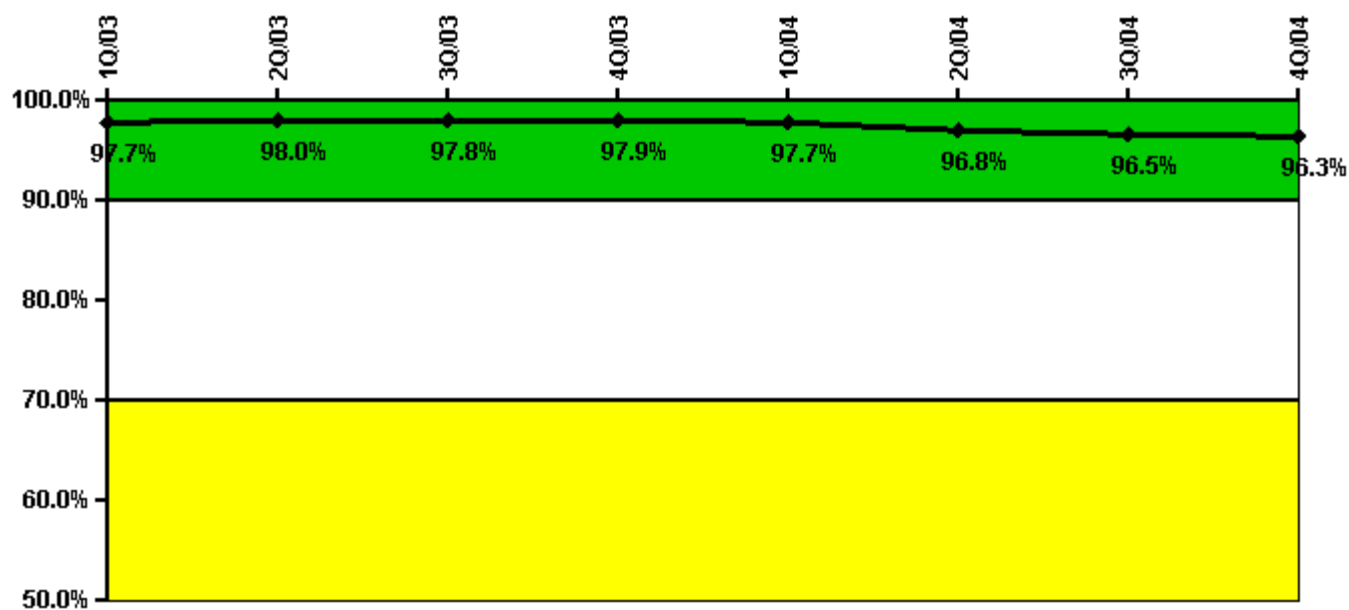
Thresholds: White > 50.0 Yellow > 100.0

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	0.180	0.180	0.170	0.200	N/A	0.210	0.120	0.140	0.220	0.110	0.160	0.120
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.8	1.8	1.7	2.0	N/A	2.1	1.2	1.4	2.2	1.1	1.6	1.2
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	0.090	0.090	0.100	0.140	0.090	0.080	0.100	0.080	0.100	0.110	N/A	0.210
Technical specification limit	10.0	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	0.9	1.0	1.4	0.9	0.8	1.0	0.8	1.0	1.1	N/A	2.1

Licensee Comments: none

Drill/Exercise Performance



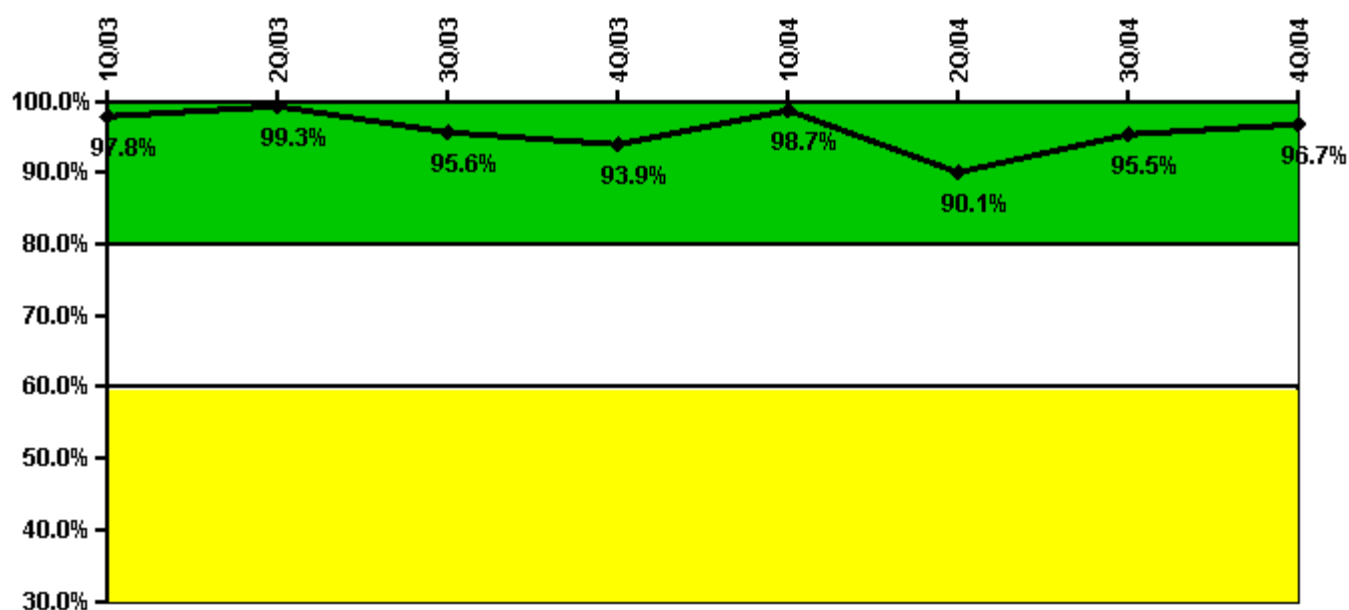
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful opportunities	14.0	48.0	51.0	0	16.0	12.0	32.0	8.0
Total opportunities	14.0	49.0	54.0	0	16.0	13.0	34.0	8.0
Indicator value	97.7%	98.0%	97.8%	97.9%	97.7%	96.8%	96.5%	96.3%

Licensee Comments: none

ERO Drill Participation



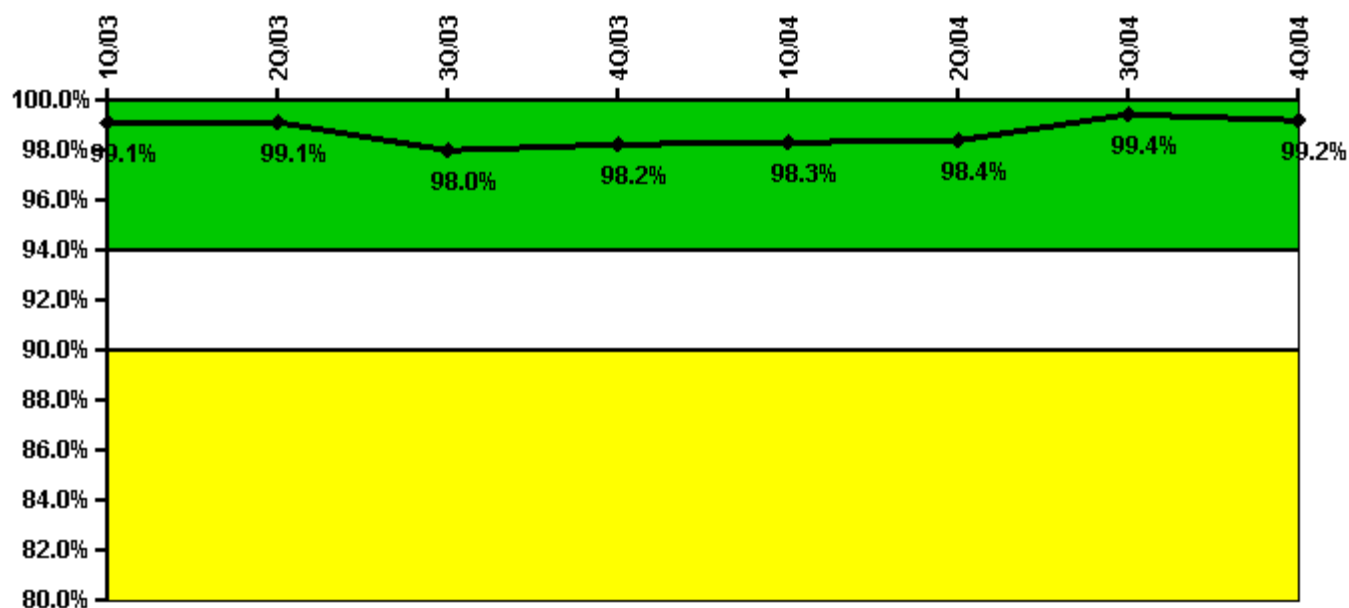
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Participating Key personnel	136.0	137.0	152.0	154.0	156.0	145.0	150.0	148.0
Total Key personnel	139.0	138.0	159.0	164.0	158.0	161.0	157.0	153.0
Indicator value	97.8%	99.3%	95.6%	93.9%	98.7%	90.1%	95.5%	96.7%

Licensee Comments: none

Alert & Notification System



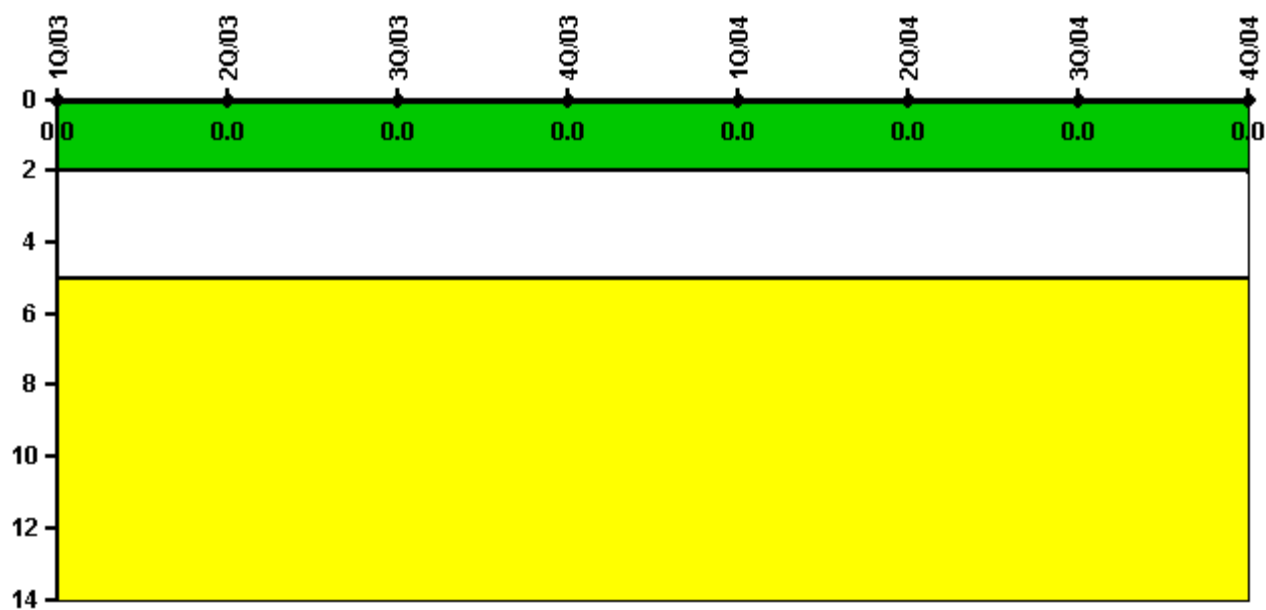
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful siren-tests	525	531	510	600	467	533	532	461
Total sirens-tests	530	536	536	603	469	536	536	469
Indicator value	99.1%	99.1%	98.0%	98.2%	98.3%	98.4%	99.4%	99.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness



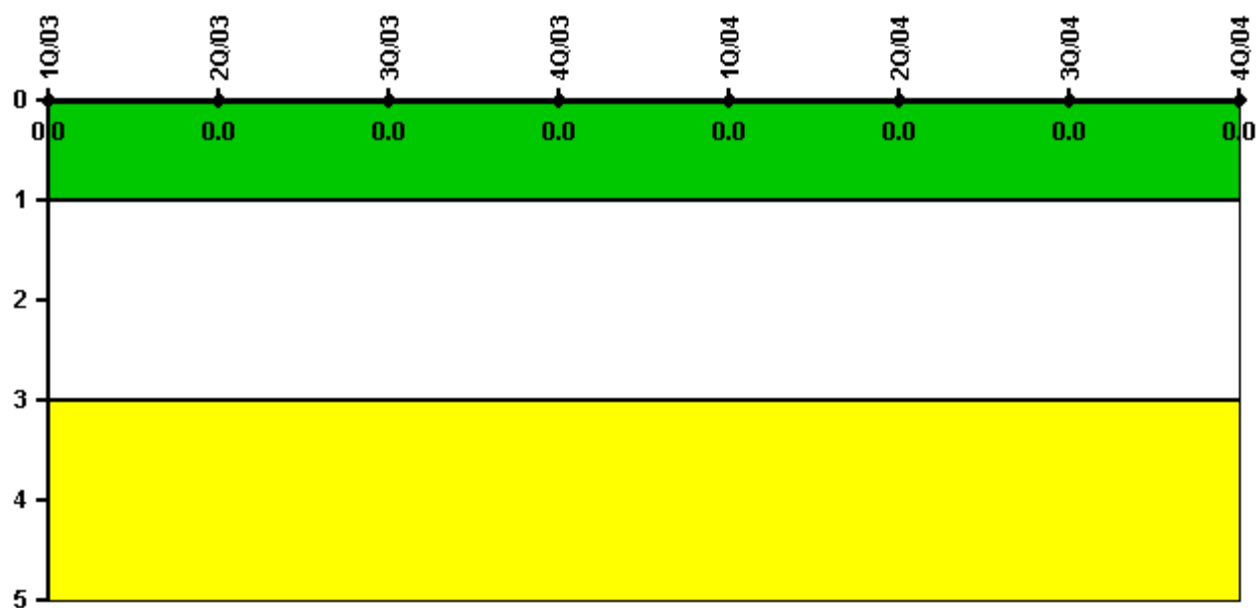
Thresholds: White > 2.0 Yellow > 5.0

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.

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

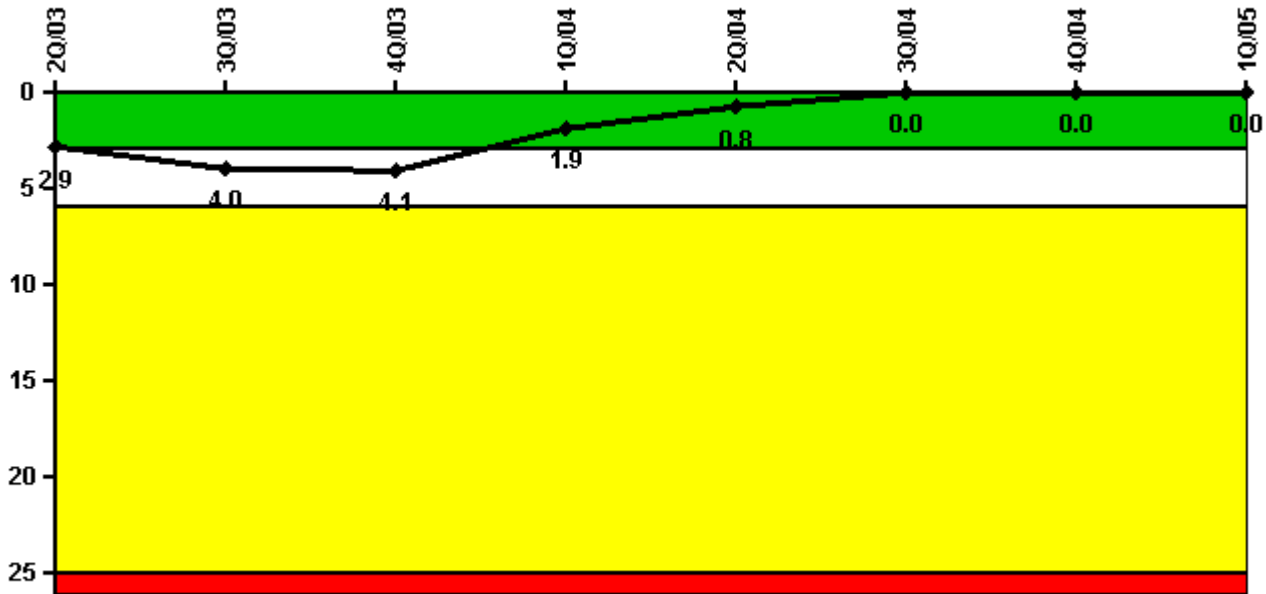
Last Modified: March 9, 2005

Surry 1

1Q/2005 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



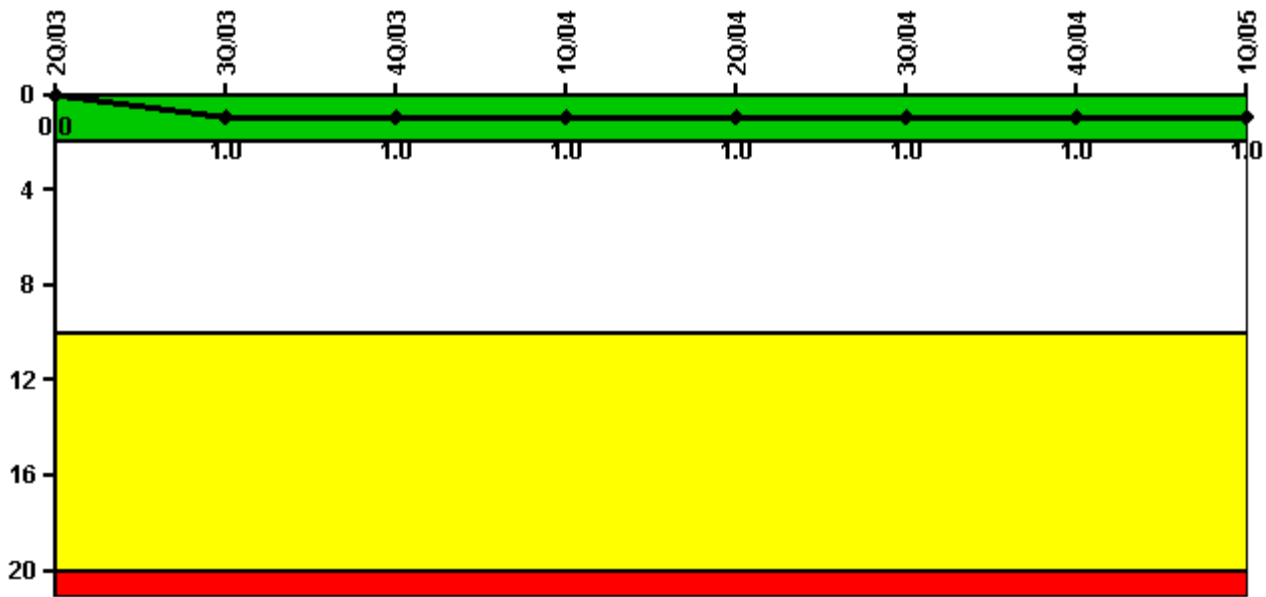
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Unplanned scrams	1.0	1.0	0	0	0	0	0	0
Critical hours	855.8	2147.7	2008.7	2184.0	2183.0	2208.0	1422.9	2068.5
Indicator value	2.9	4.0	4.1	1.9	0.8	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



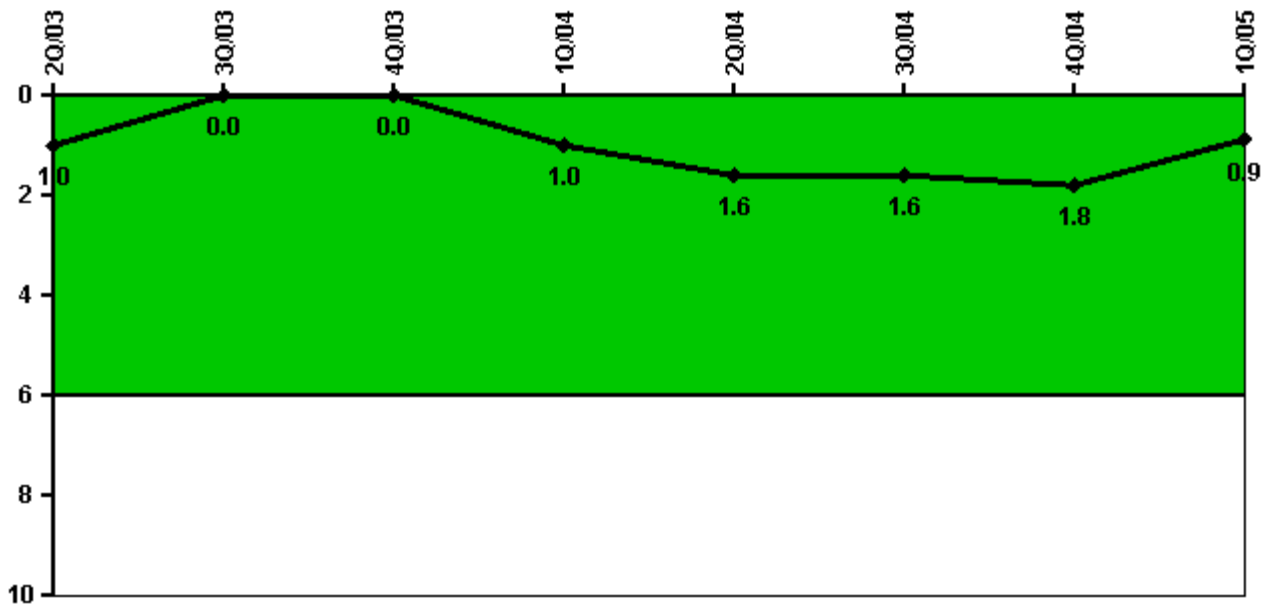
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



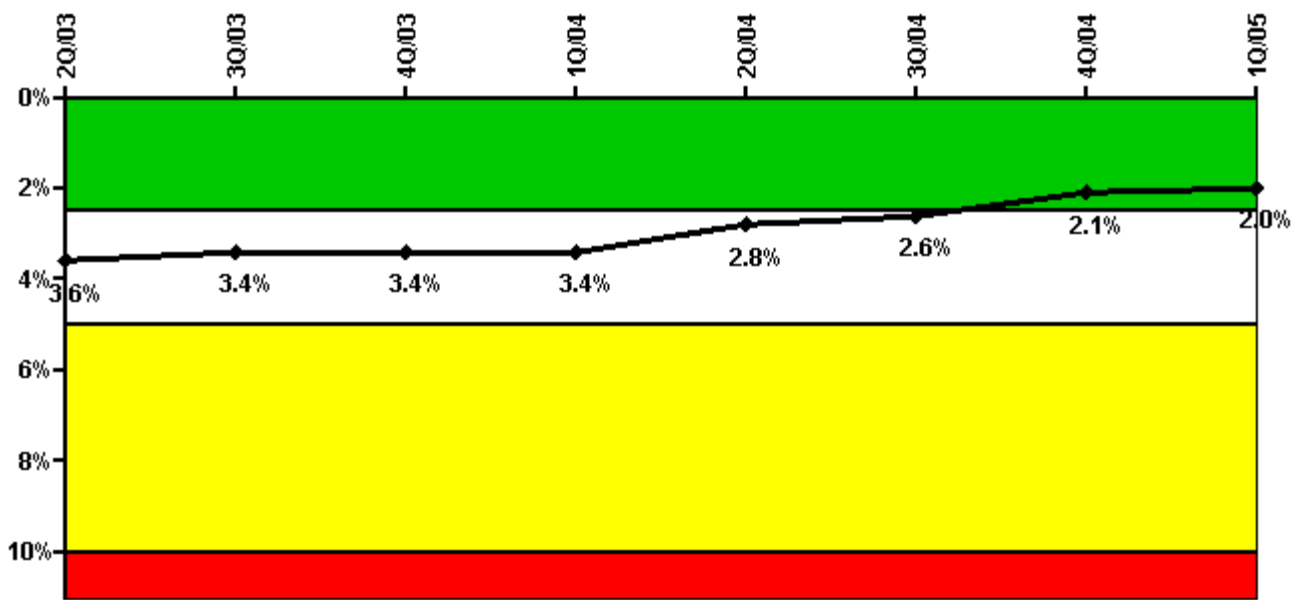
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Unplanned power changes	0	0	0	1.0	1.0	0	0	0
Critical hours	855.8	2147.7	2008.7	2184.0	2183.0	2208.0	1422.9	2068.5
Indicator value	1.0	0	0	1.0	1.6	1.6	1.8	0.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



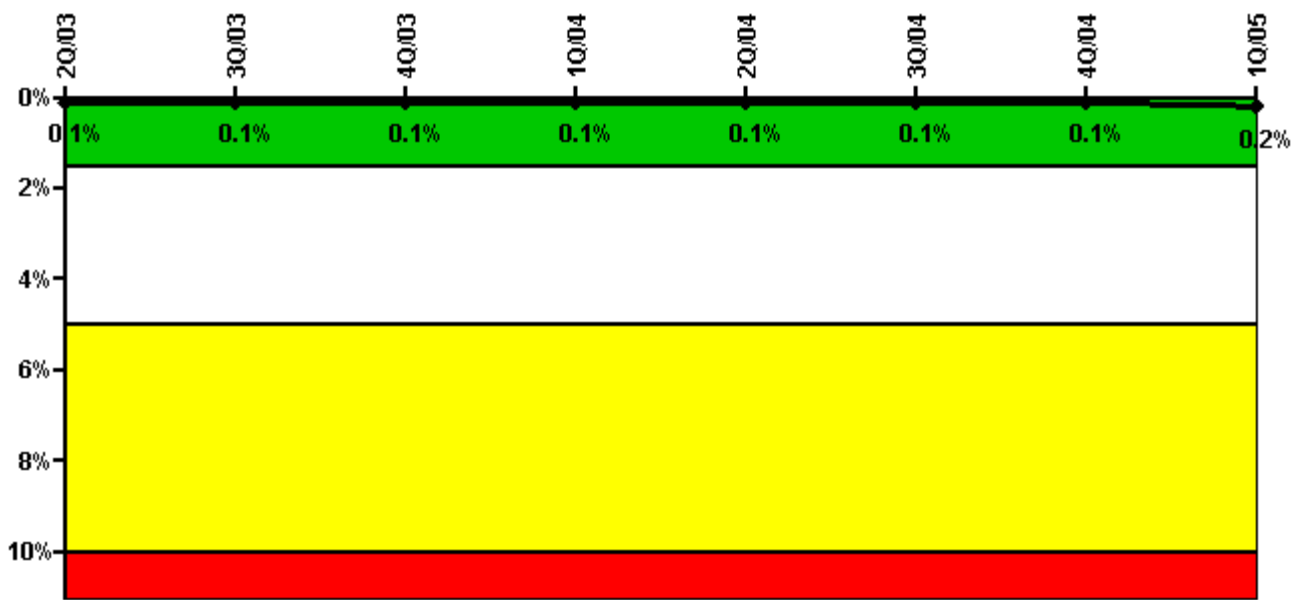
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	15.03	12.37	11.25	12.45	16.57	17.50	10.27	9.55
Unplanned unavailable hours	0	2.95	0	3.83	0	31.00	0	11.87
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	983.09	2208.00	2055.52	2184.00	2183.00	2208.00	1462.22	2115.38
Train 2								
Planned unavailable hours	10.49	18.78	23.33	21.23	18.94	22.14	18.94	12.02
Unplanned unavailable hours	7.42	0	0	0	9.23	0	9.00	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	983.09	2208.00	2055.52	2184.00	2183.00	2208.00	1462.22	2115.38
Indicator value	3.6%	3.4%	3.4%	3.4%	2.8%	2.6%	2.1%	2.0%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



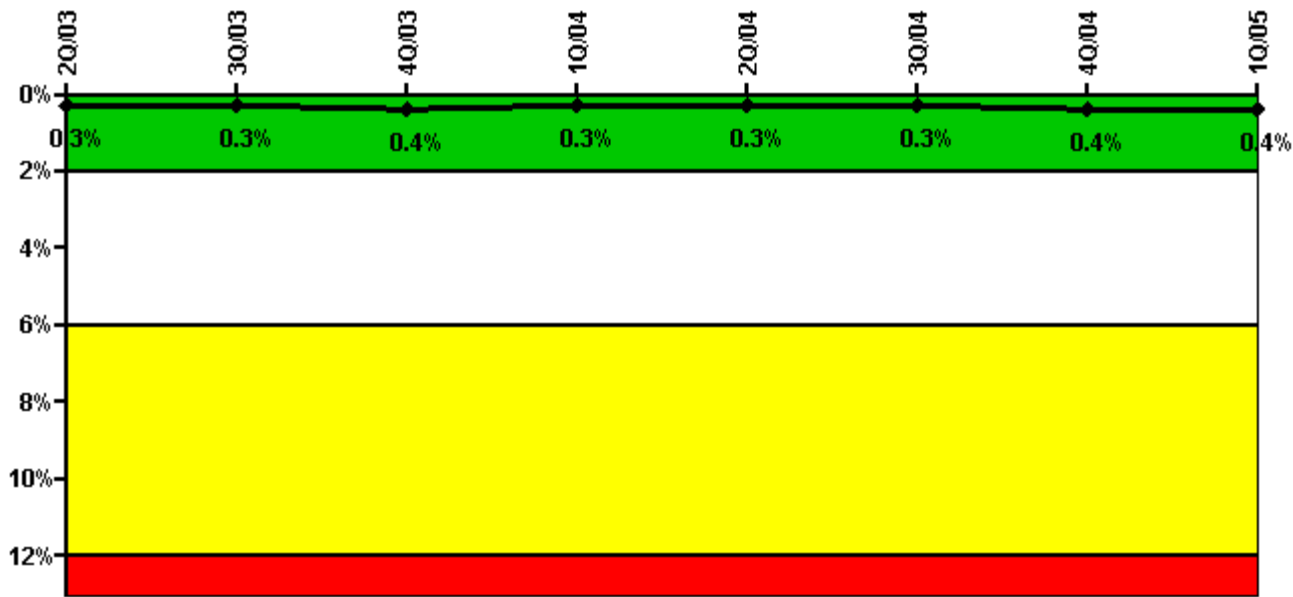
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	1.65	1.18	0	5.03	2.36	0	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	1048.50	2208.00	2007.00	2184.00	2183.00	2208.00	1422.90	2068.50
Train 2								
Planned unavailable hours	21.50	1.27	11.10	1.85	3.02	1.25	7.30	7.07
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1048.50	2208.00	2007.00	2184.00	2183.00	2208.00	1422.90	2068.50
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	2.90	2.03	14.03	0.80	0.60	1.18	0	0.95
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	1164.50	2208.00	2208.00	2184.00	2183.00	2208.00	1462.20	2115.40
Train 2								
Planned unavailable hours	0	1.05	1.65	10.00	1.35	1.58	2.85	1.10
Unplanned unavailable hours	0	0	0	0	0	0	9.98	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1164.50	2208.00	2208.00	2184.00	2183.00	2208.00	1462.20	2115.40
Train 3								
Planned unavailable hours	0	12.00	35.52	1.65	1.58	15.15	1.20	7.80
Unplanned unavailable hours	0	0	0	0	0	0	17.71	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	981.50	2208.00	2007.00	2184.00	2183.00	2208.00	1441.60	2105.90
Indicator value	0.3%	0.3%	0.4%	0.3%	0.3%	0.3%	0.4%	0.4%

Licensee Comments: none

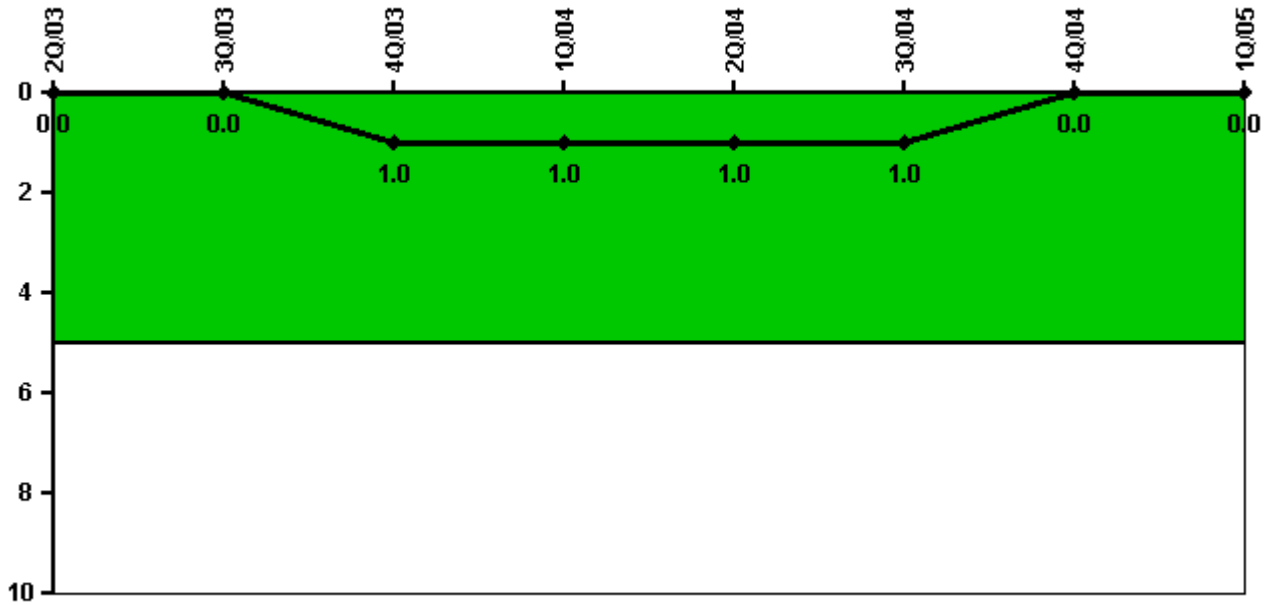
The chart displays the distribution of the number of queries per node (Q/N) for different node counts (N). The x-axis represents the percentage of nodes, ranging from 0% to 10% in 2% increments. The y-axis represents the number of queries per node (Q/N), ranging from 0 to 10. The chart is divided into three colored regions: green (0% to 2%), yellow (2% to 8%), and red (8% to 10%). The data points are: 2Q/03 (0.2%), 3Q/03 (0.2%), 4Q/03 (0.2%), 1Q/04 (0.2%), 2Q/04 (0.2%), 3Q/04 (0.2%), 4Q/04 (0.2%), and 1Q/05 (0.2%).

Notes

[illegible]

Licensee Comments: none

Safety System Functional Failures (PWR)



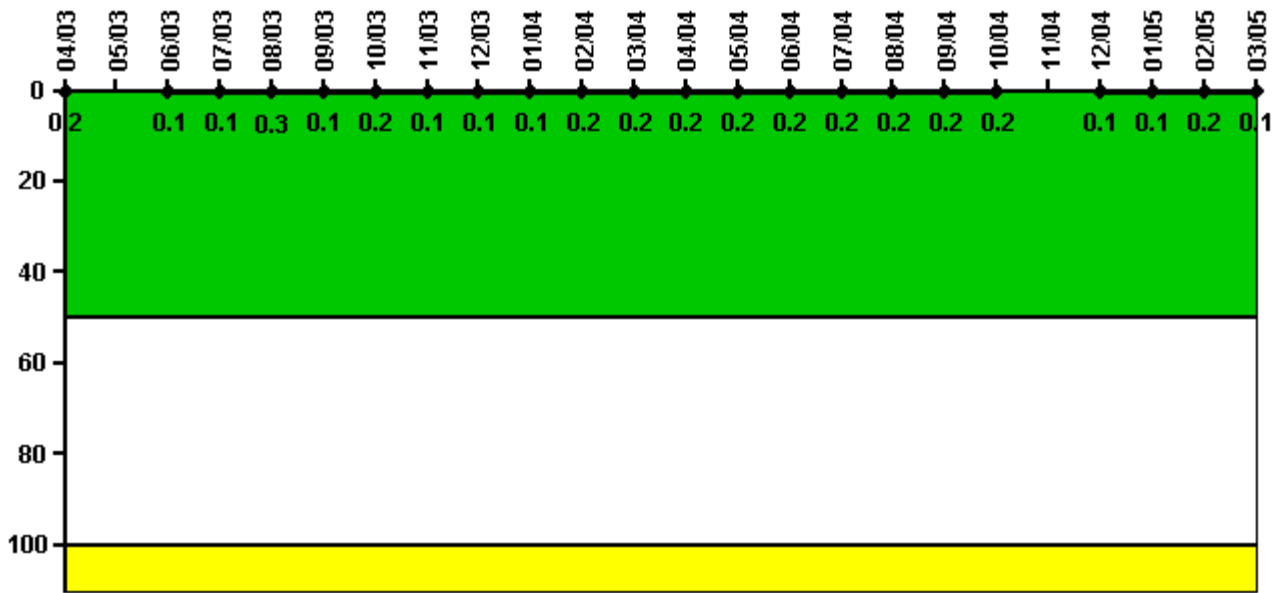
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

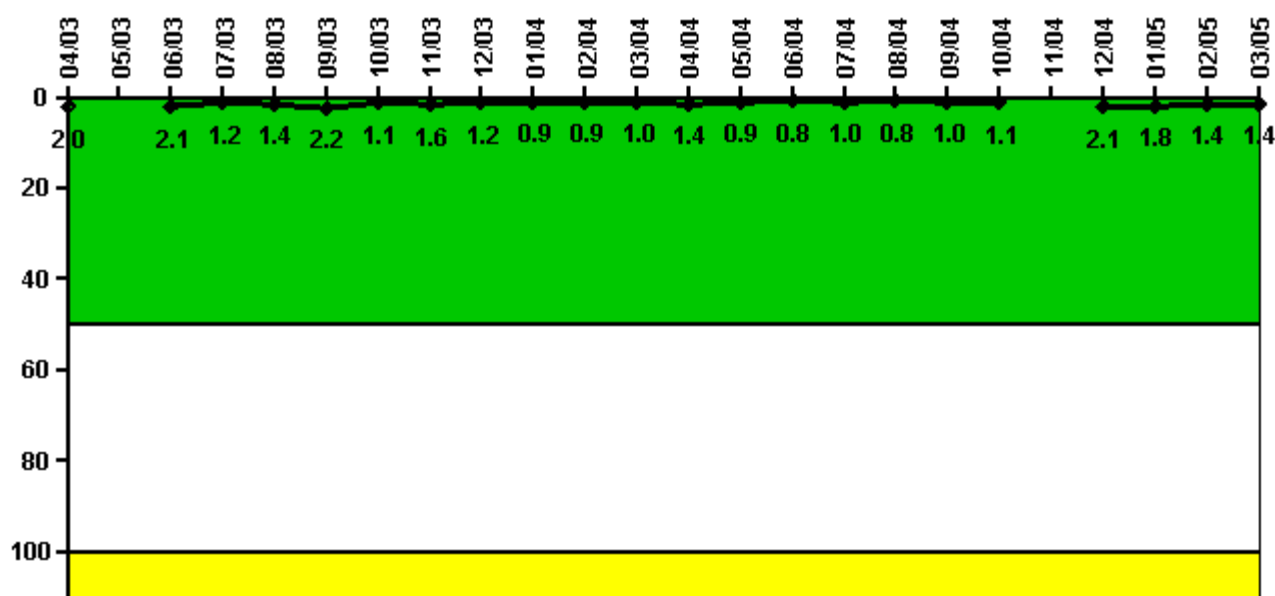
Notes

Reactor Coolant System Activity	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04
Maximum activity	0.002100	N/A	0.000956	0.001080	0.002690	0.001380	0.002180	0.001300	0.001400	0.001420	0.001540	0.001670
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	N/A	0.1	0.1	0.3	0.1	0.2	0.1	0.1	0.1	0.2	0.2

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	0.001720	0.001700	0.001710	0.001780	0.002040	0.001980	0.002010	N/A	0.000968	0.001300	0.001520	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N/A	0.1	0.1	0.2	0.1

Licensee Comments: none

Reactor Coolant System Leakage



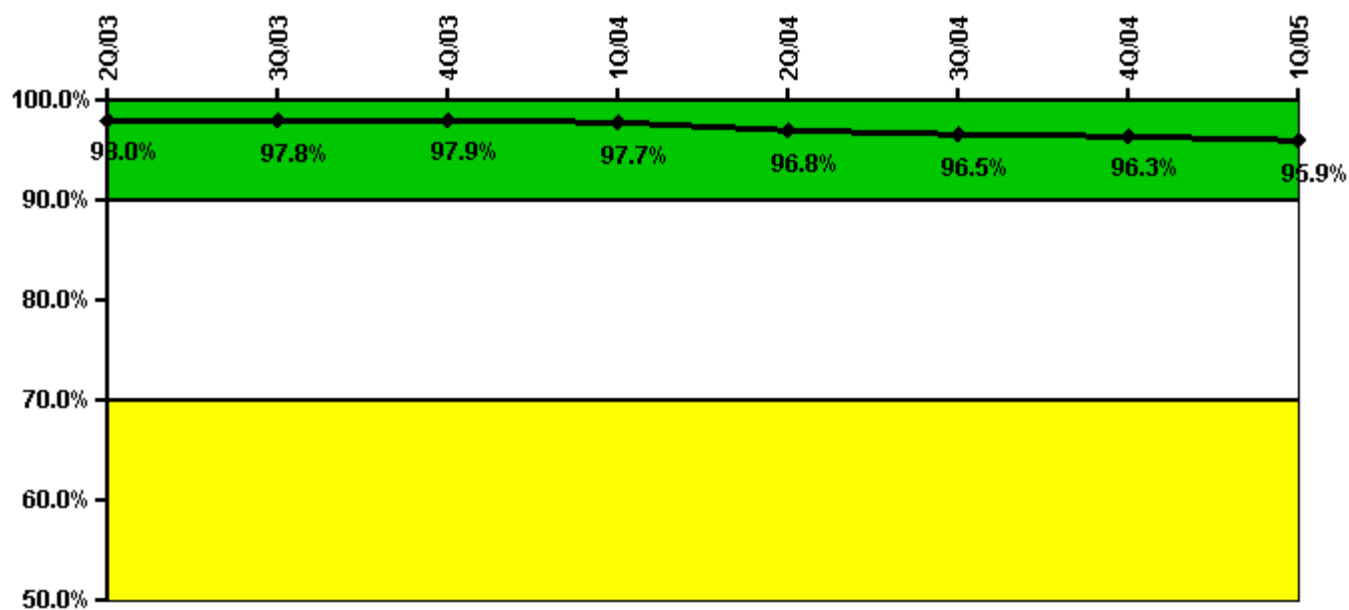
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.200	N/A	0.210	0.120	0.140	0.220	0.110	0.160	0.120	0.090	0.090	0.100
Technical specification limit	10.0	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	N/A	2.1	1.2	1.4	2.2	1.1	1.6	1.2	0.9	0.9	1.0
Reactor Coolant System Leakage	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05
Maximum leakage	0.140	0.090	0.080	0.100	0.080	0.100	0.110	N/A	0.210	0.180	0.140	0.140
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.4	0.9	0.8	1.0	0.8	1.0	1.1	N/A	2.1	1.8	1.4	1.4

Licensee Comments: none

Drill/Exercise Performance



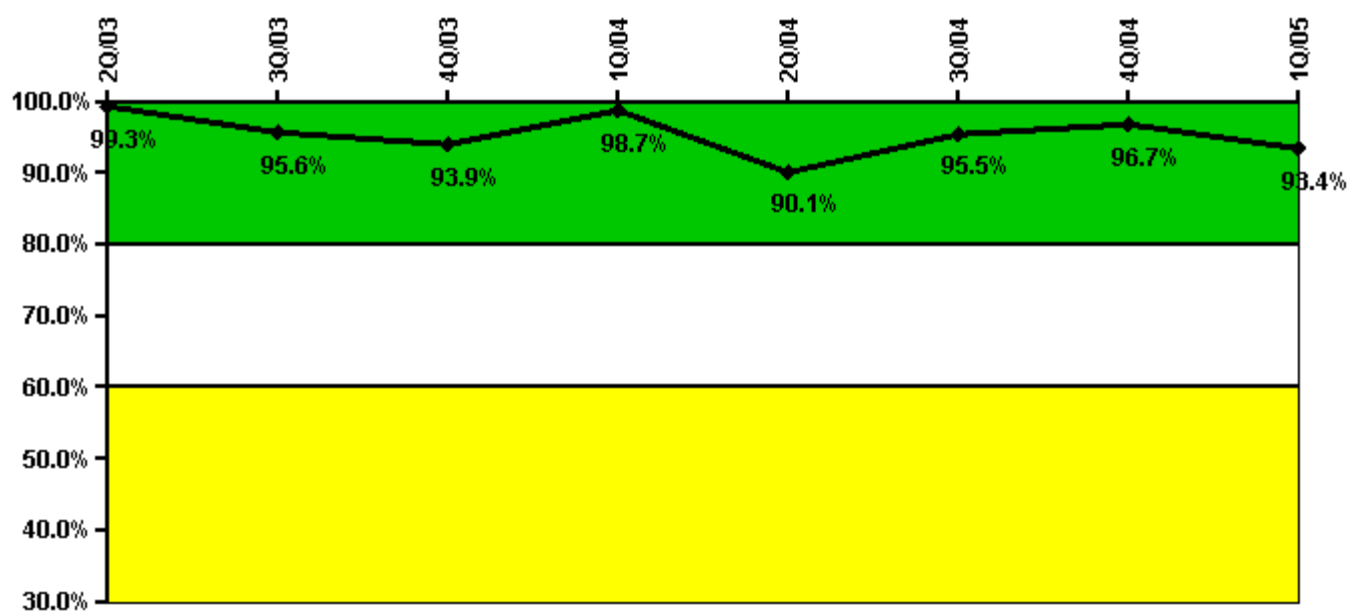
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful opportunities	48.0	51.0	0	16.0	12.0	32.0	8.0	19.0
Total opportunities	49.0	54.0	0	16.0	13.0	34.0	8.0	20.0
Indicator value	98.0%	97.8%	97.9%	97.7%	96.8%	96.5%	96.3%	95.9%

Licensee Comments: none

ERO Drill Participation



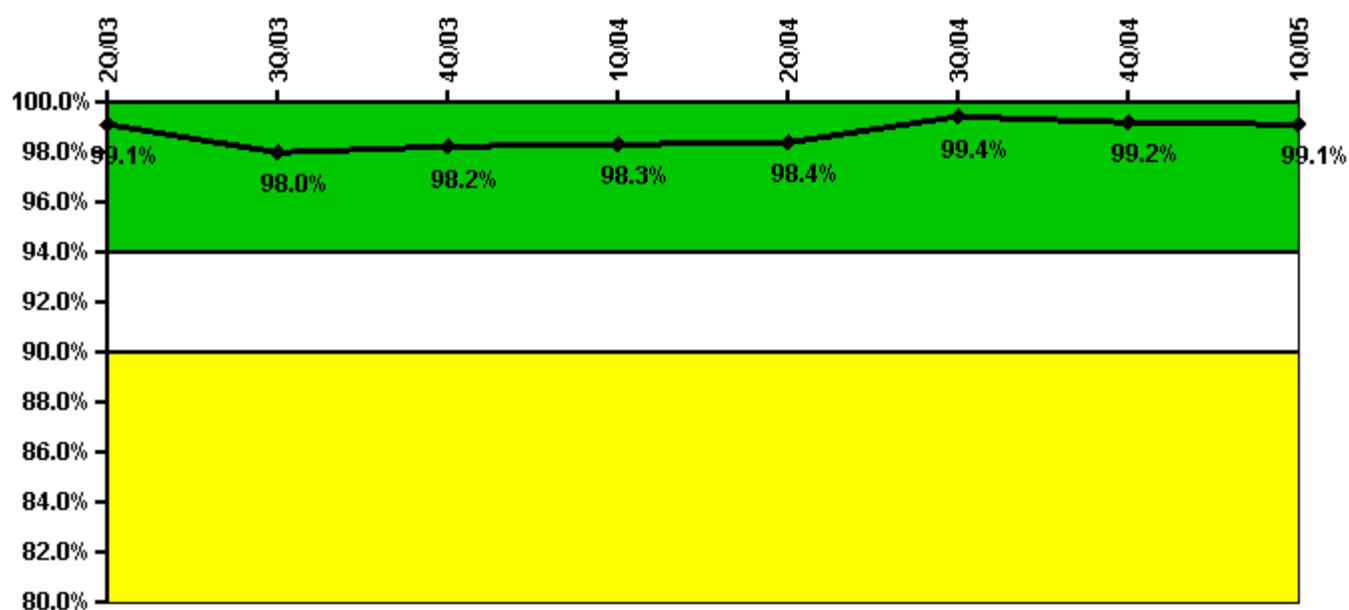
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Participating Key personnel	137.0	152.0	154.0	156.0	145.0	150.0	148.0	142.0
Total Key personnel	138.0	159.0	164.0	158.0	161.0	157.0	153.0	152.0
Indicator value	99.3%	95.6%	93.9%	98.7%	90.1%	95.5%	96.7%	93.4%

Licensee Comments: none

Alert & Notification System



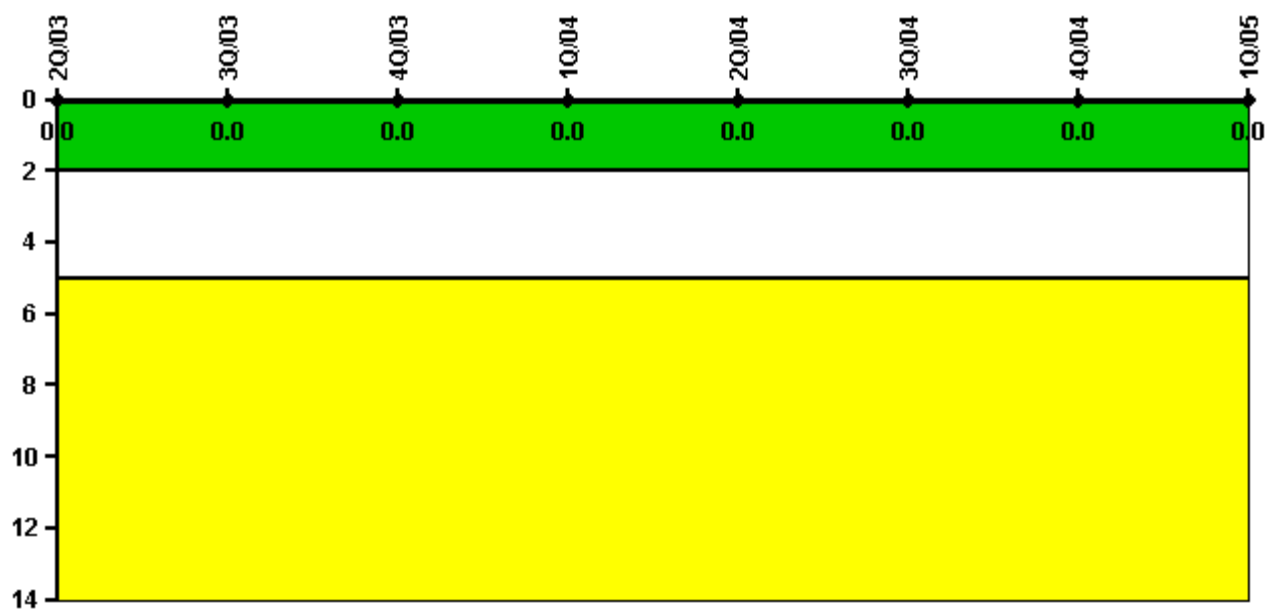
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful siren-tests	531	510	600	467	533	532	461	534
Total sirens-tests	536	536	603	469	536	536	469	537
Indicator value	99.1%	98.0%	98.2%	98.3%	98.4%	99.4%	99.2%	99.1%

Licensee Comments: none

Occupational Exposure Control Effectiveness

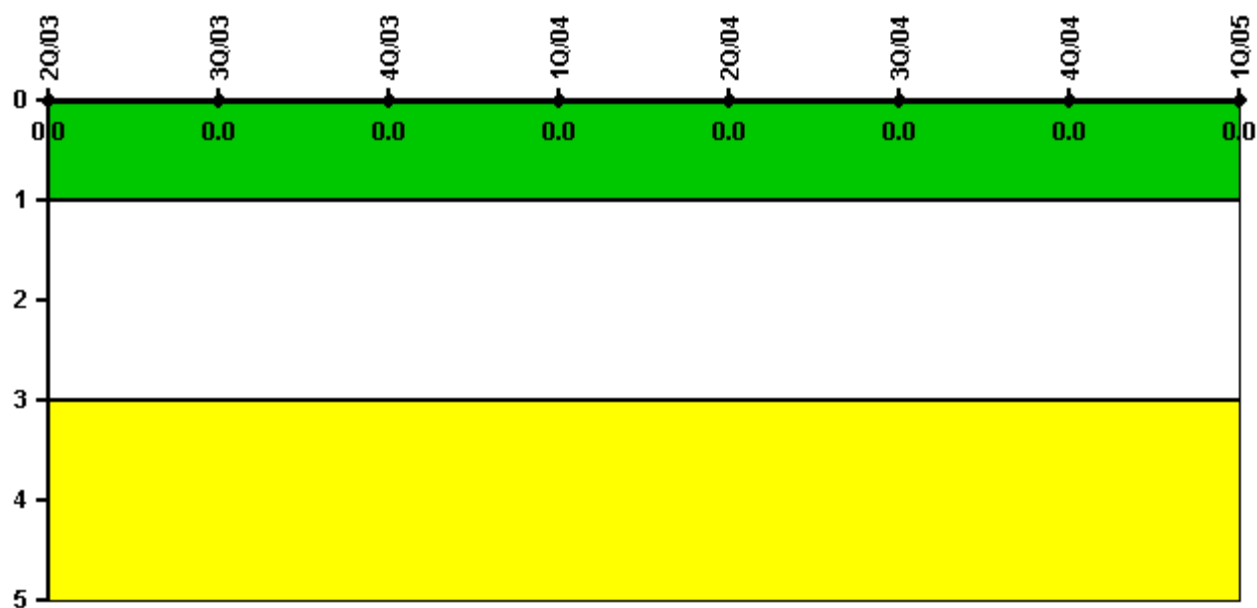


Thresholds: White > 2.0 Yellow > 5.0

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.

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

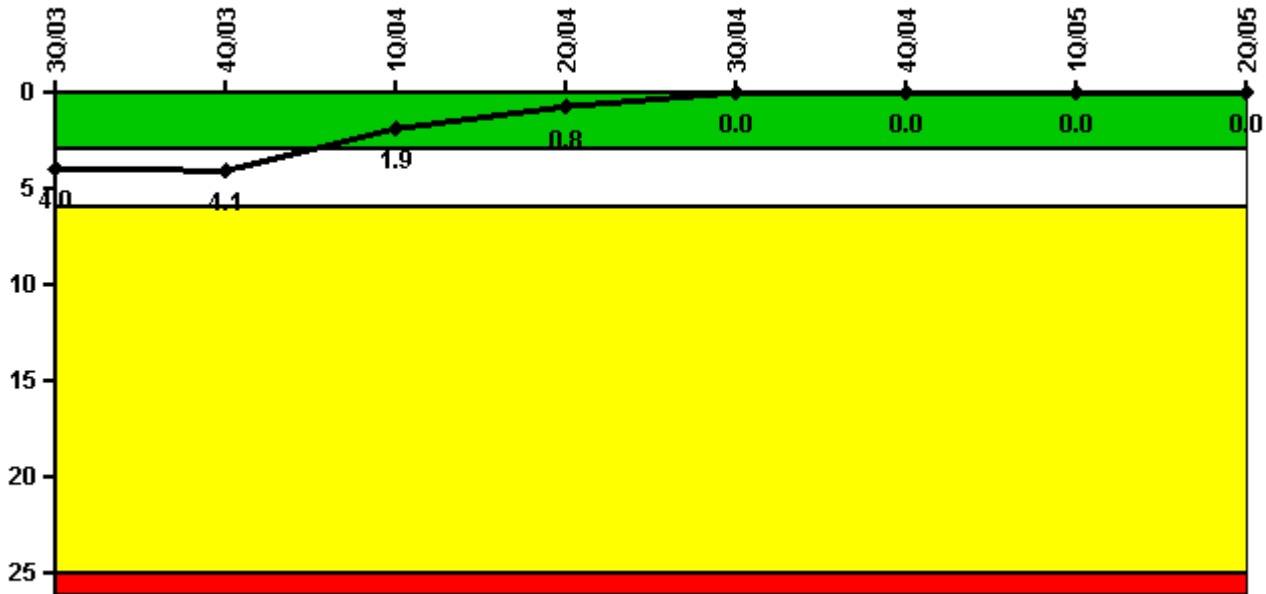
Last Modified: June 17, 2005

Surry 1

2Q/2005 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



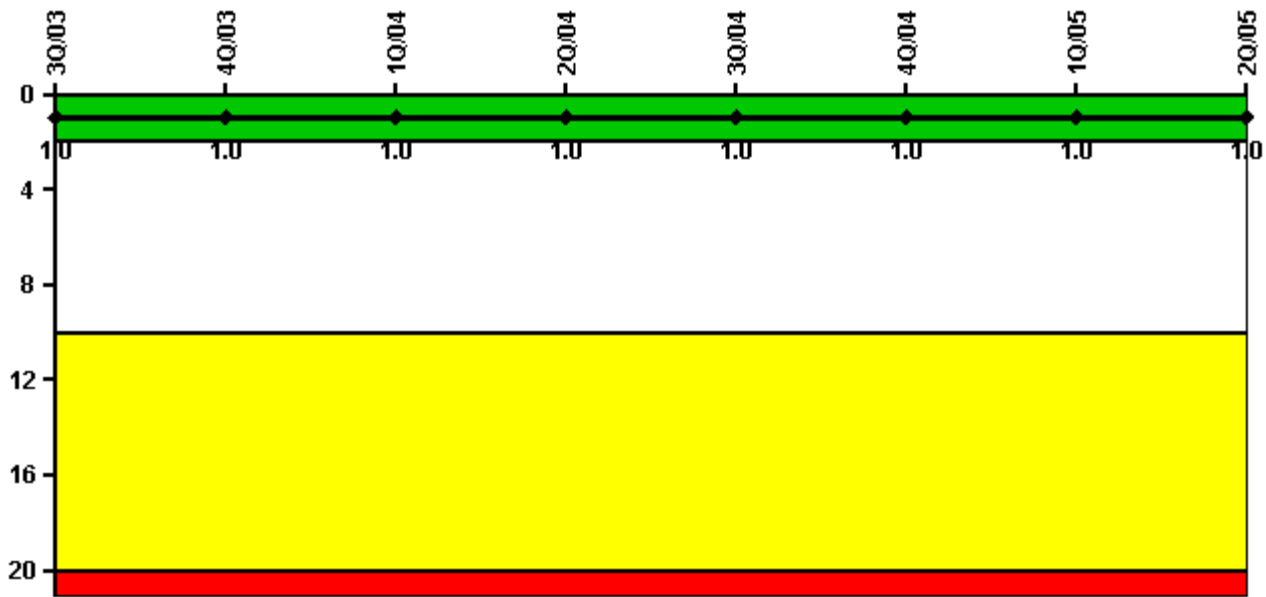
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2147.7	2008.7	2184.0	2183.0	2208.0	1422.9	2068.5	2183.0
Indicator value	4.0	4.1	1.9	0.8	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



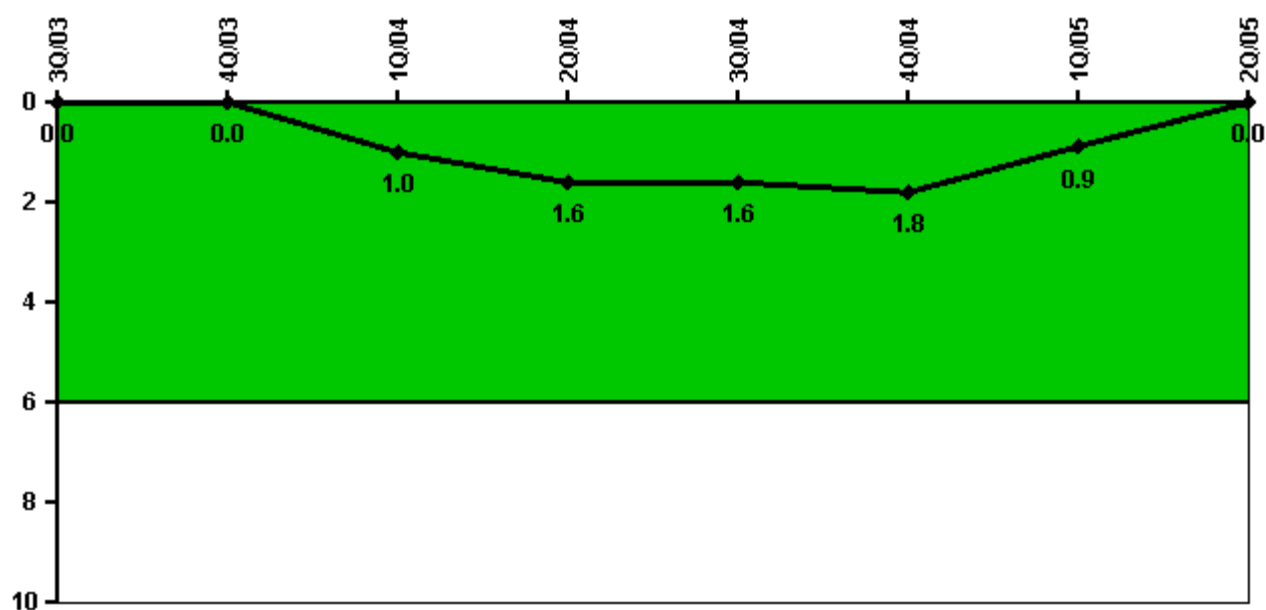
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



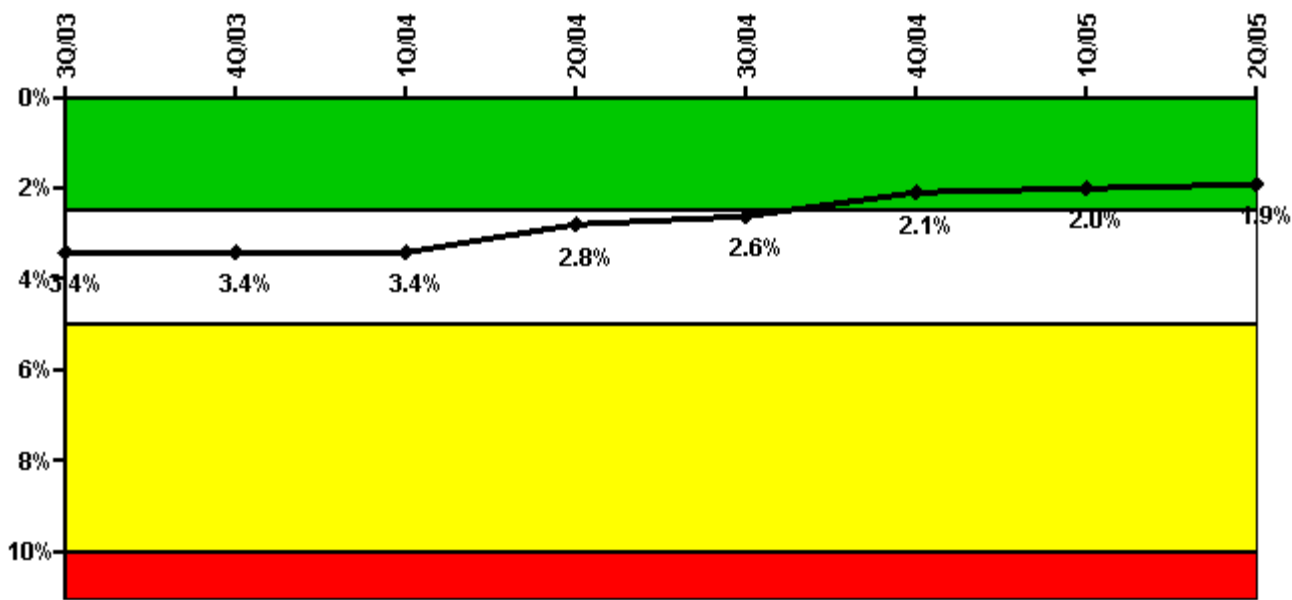
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned power changes	0	0	1.0	1.0	0	0	0	0
Critical hours	2147.7	2008.7	2184.0	2183.0	2208.0	1422.9	2068.5	2183.0
Indicator value	0	0	1.0	1.6	1.6	1.8	0.9	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



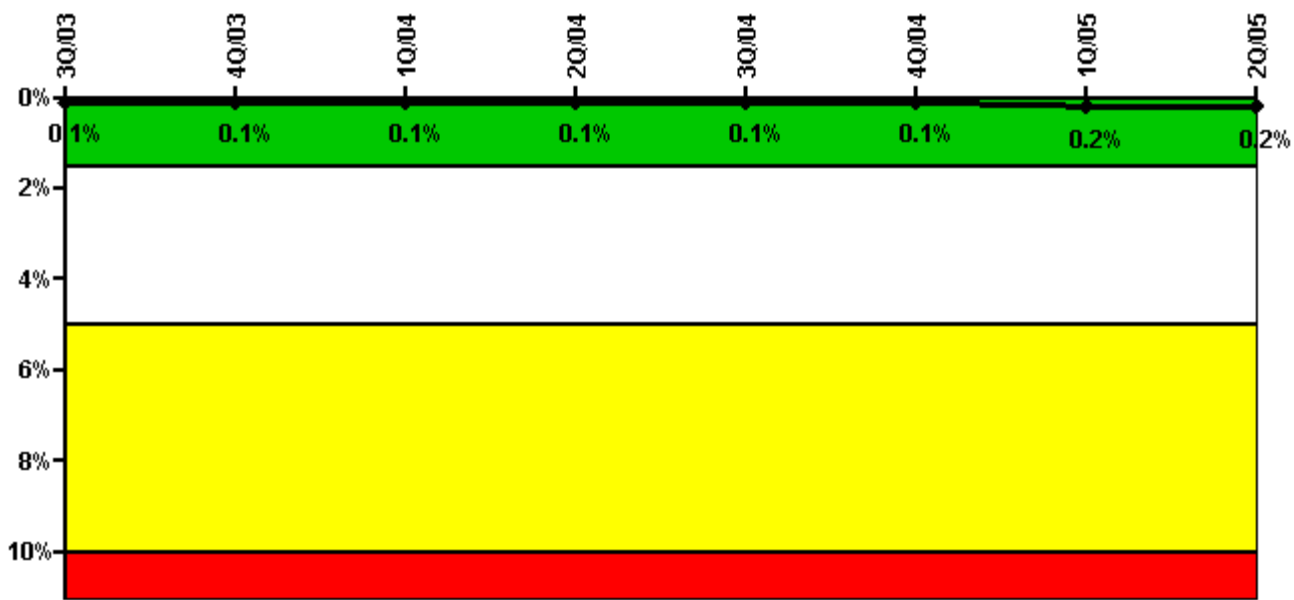
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	12.37	11.25	12.45	16.57	17.50	10.27	9.55	12.26
Unplanned unavailable hours	2.95	0	3.83	0	31.00	0	11.87	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2055.52	2184.00	2183.00	2208.00	1462.22	2115.38	2183.00
Train 2								
Planned unavailable hours	18.78	23.33	21.23	18.94	22.14	18.94	12.02	27.03
Unplanned unavailable hours	0	0	0	9.23	0	9.00	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	2208.00	2055.52	2184.00	2183.00	2208.00	1462.22	2115.38	2183.00
Indicator value	3.4%	3.4%	3.4%	2.8%	2.6%	2.1%	2.0%	1.9%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



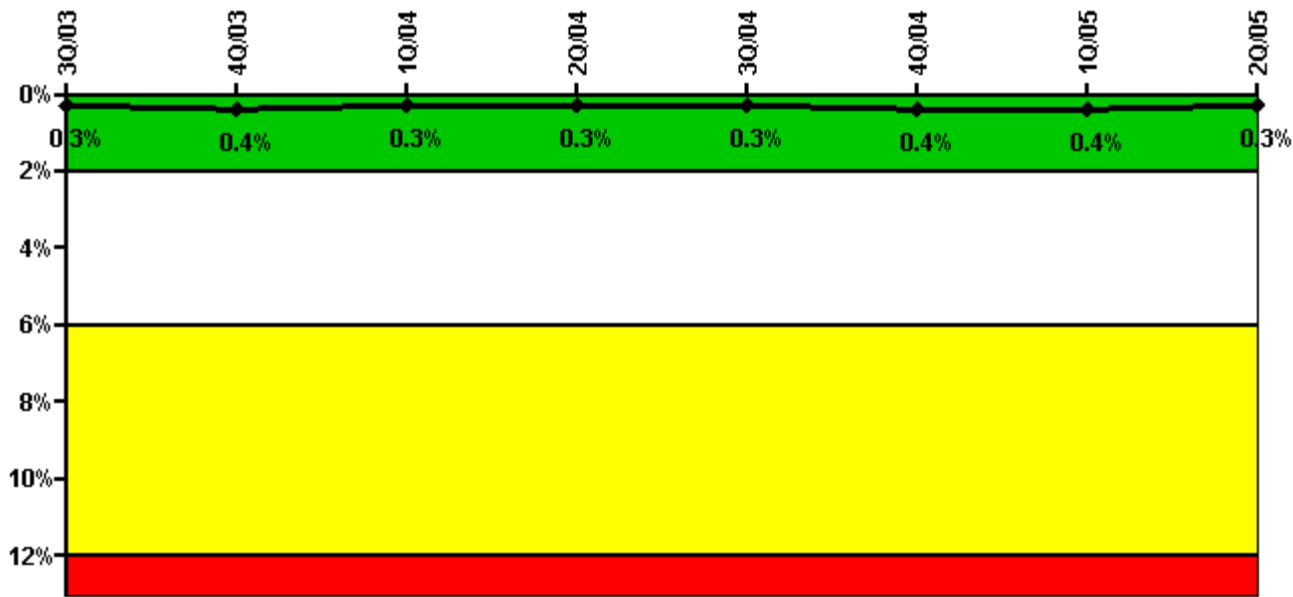
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	1.65	1.18	0	5.03	2.36	0	2.96	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	2007.00	2184.00	2183.00	2208.00	1422.90	2068.50	2183.00
Train 2								
Planned unavailable hours	1.27	11.10	1.85	3.02	1.25	7.30	7.07	2.42
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	2208.00	2007.00	2184.00	2183.00	2208.00	1422.90	2068.50	2183.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	2.03	14.03	0.80	0.60	1.18	0	0.95	0.80
Unplanned unavailable hours	0	0	0	0	0	0	0	3.30
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2208.00	2184.00	2183.00	2208.00	1462.20	2115.40	2183.00
Train 2								
Planned unavailable hours	1.05	1.65	10.00	1.35	1.58	2.85	1.10	1.22
Unplanned unavailable hours	0	0	0	0	0	9.98	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2208.00	2184.00	2183.00	2208.00	1462.20	2115.40	2183.00
Train 3								
Planned unavailable hours	12.00	35.52	1.65	1.58	15.15	1.20	7.80	1.70
Unplanned unavailable hours	0	0	0	0	0	17.71	0	0
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	2007.00	2184.00	2183.00	2208.00	1441.60	2105.90	2183.00
Indicator value	0.3%	0.4%	0.3%	0.3%	0.3%	0.4%	0.4%	0.3%

Licensee Comments: none

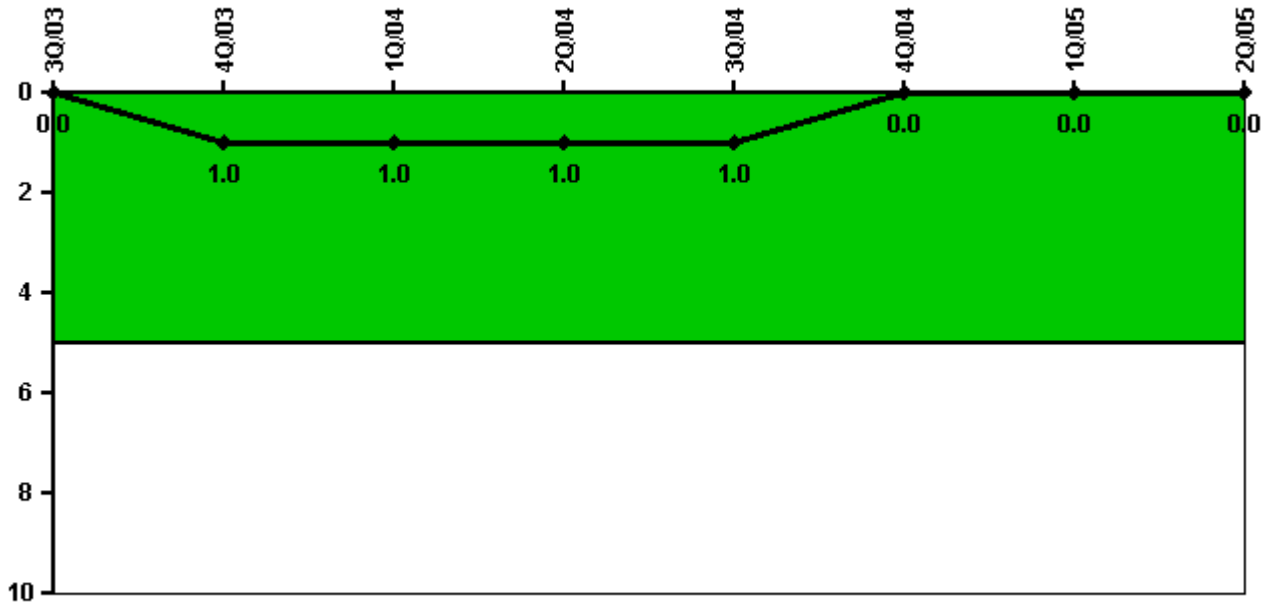
Category	Value
3Q/03	0.2%
4Q/03	0.2%
1Q/04	0.2%
2Q/04	0.2%
3Q/04	0.2%
4Q/04	0.2%
1Q/05	0.2%
2Q/05	0.2%

Notes

[illegible]

Licensee Comments: none

Safety System Functional Failures (PWR)



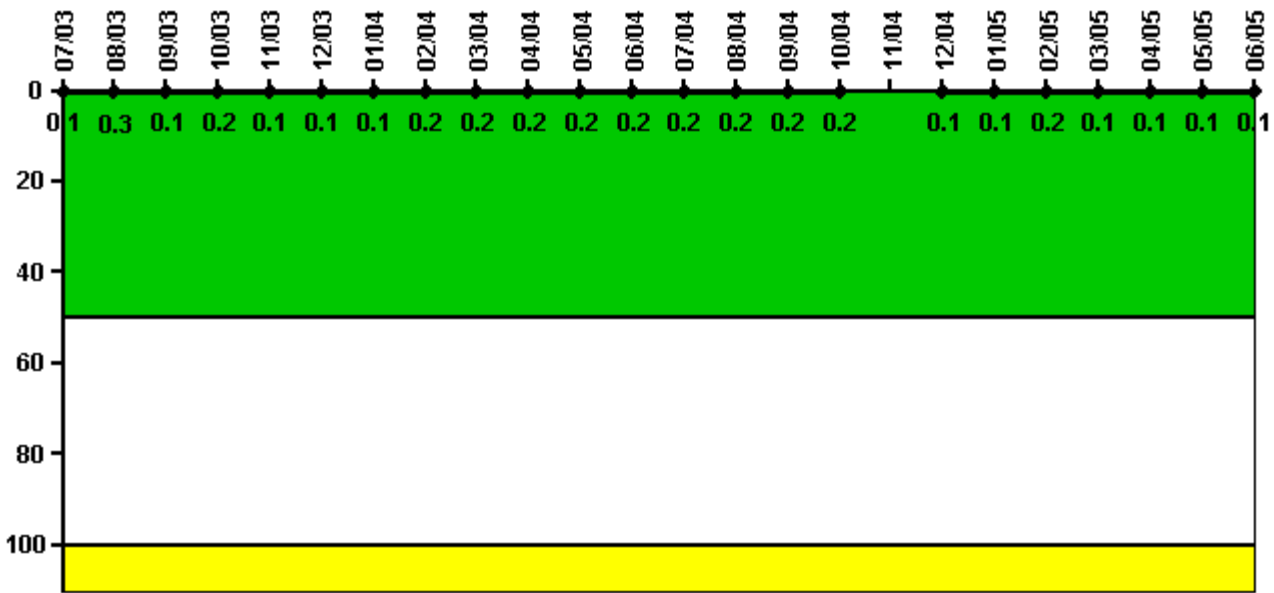
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

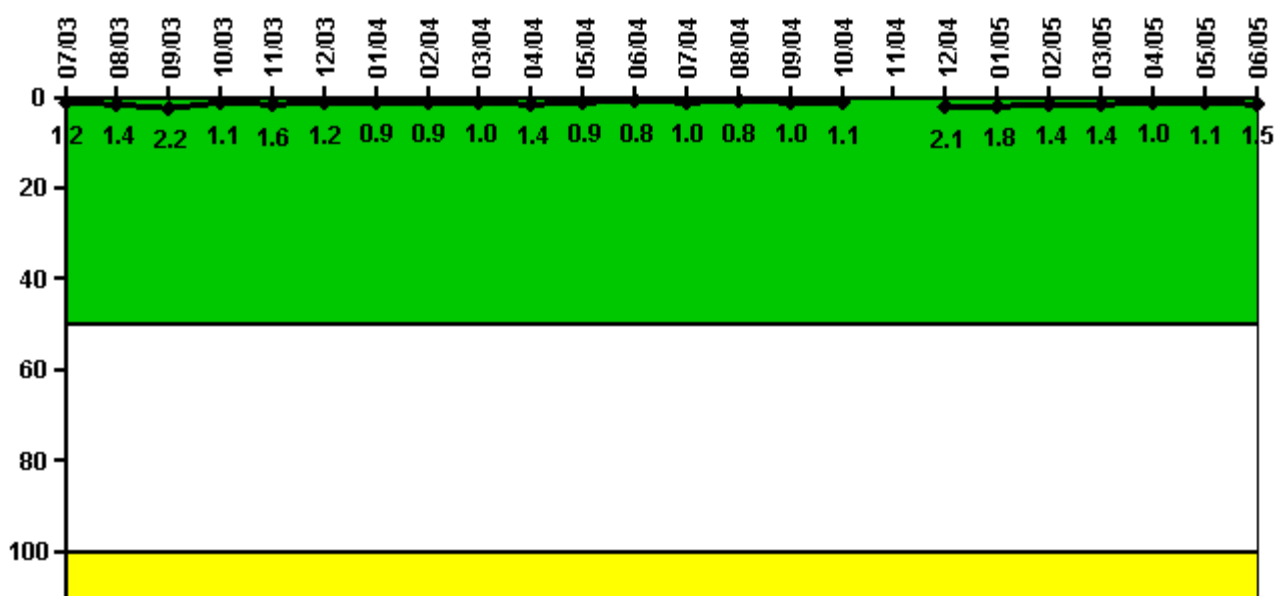
Notes

Reactor Coolant System Activity	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	0.001080	0.002690	0.001380	0.002180	0.001300	0.001400	0.001420	0.001540	0.001670	0.001720	0.001700	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	0.1	0.3	0.1	0.2	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2

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	0.001780	0.002040	0.001980	0.002010	N/A	0.000968	0.001300	0.001520	0.001200	0.001160	0.001190	0.001350
Technical specification limit	1.0	1.0	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	N/A	0.1	0.1	0.2	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



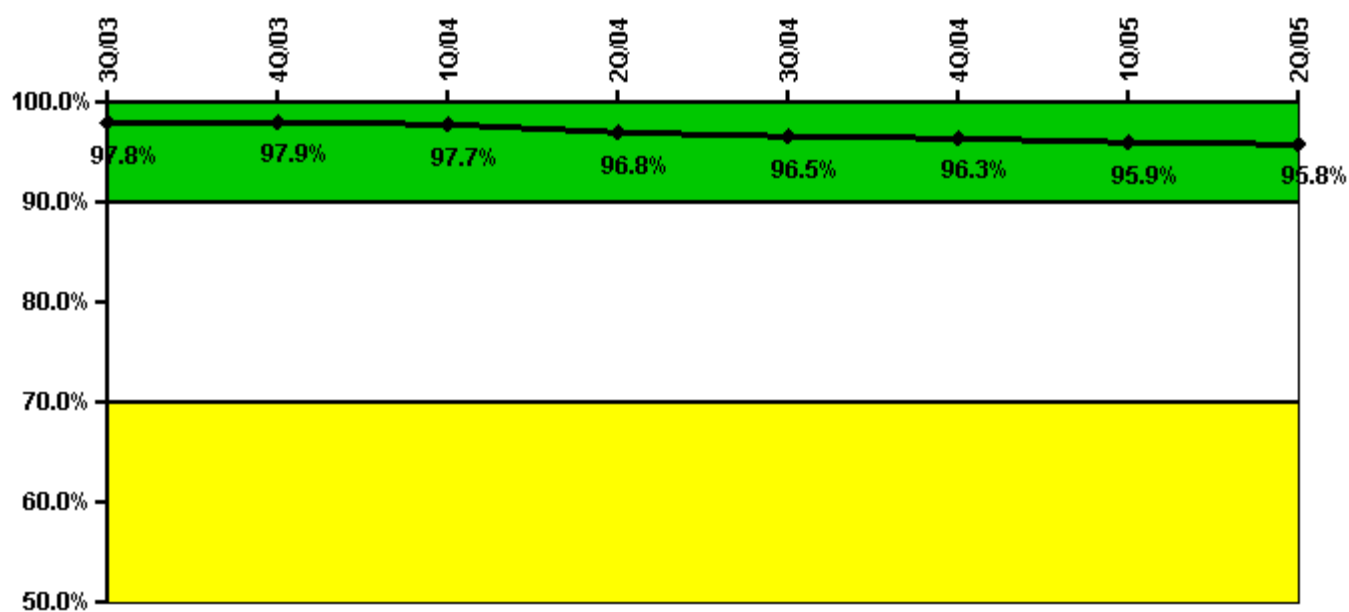
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum leakage	0.120	0.140	0.220	0.110	0.160	0.120	0.090	0.090	0.100	0.140	0.090	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.2	1.4	2.2	1.1	1.6	1.2	0.9	0.9	1.0	1.4	0.9	0.8
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	0.100	0.080	0.100	0.110	N/A	0.210	0.180	0.140	0.140	0.100	0.110	0.150
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	0.8	1.0	1.1	N/A	2.1	1.8	1.4	1.4	1.0	1.1	1.5

Licensee Comments: none

Drill/Exercise Performance



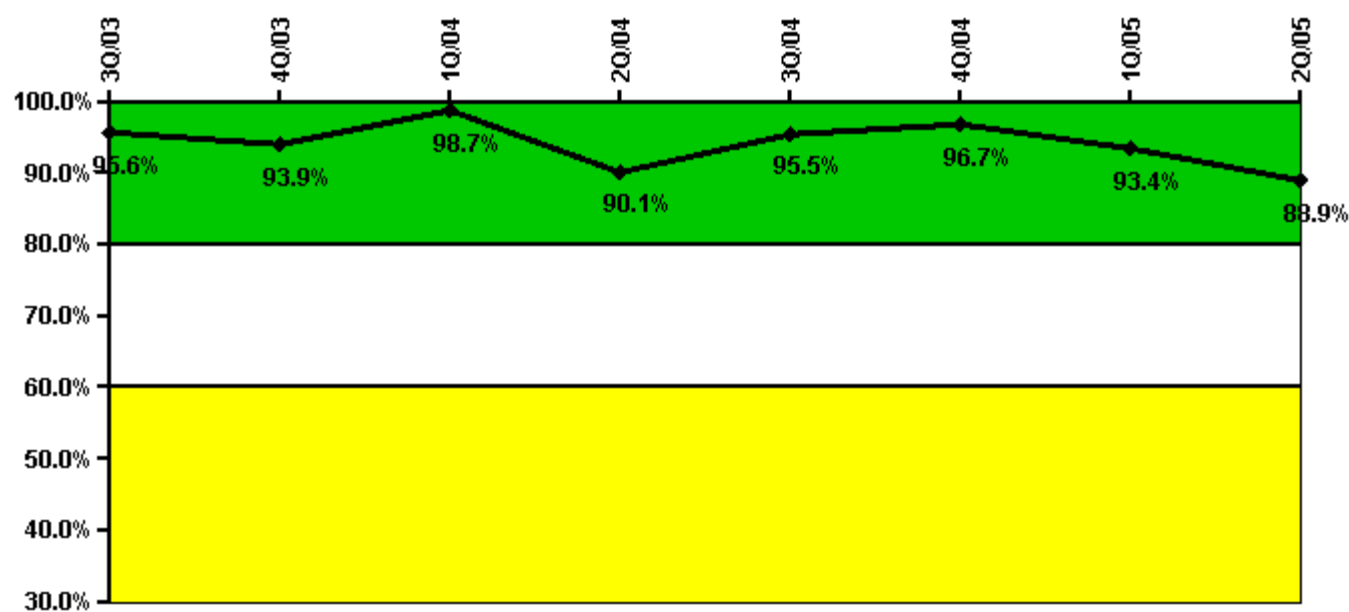
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful opportunities	51.0	0	16.0	12.0	32.0	8.0	19.0	20.0
Total opportunities	54.0	0	16.0	13.0	34.0	8.0	20.0	20.0
Indicator value	97.8%	97.9%	97.7%	96.8%	96.5%	96.3%	95.9%	95.8%

Licensee Comments: none

ERO Drill Participation



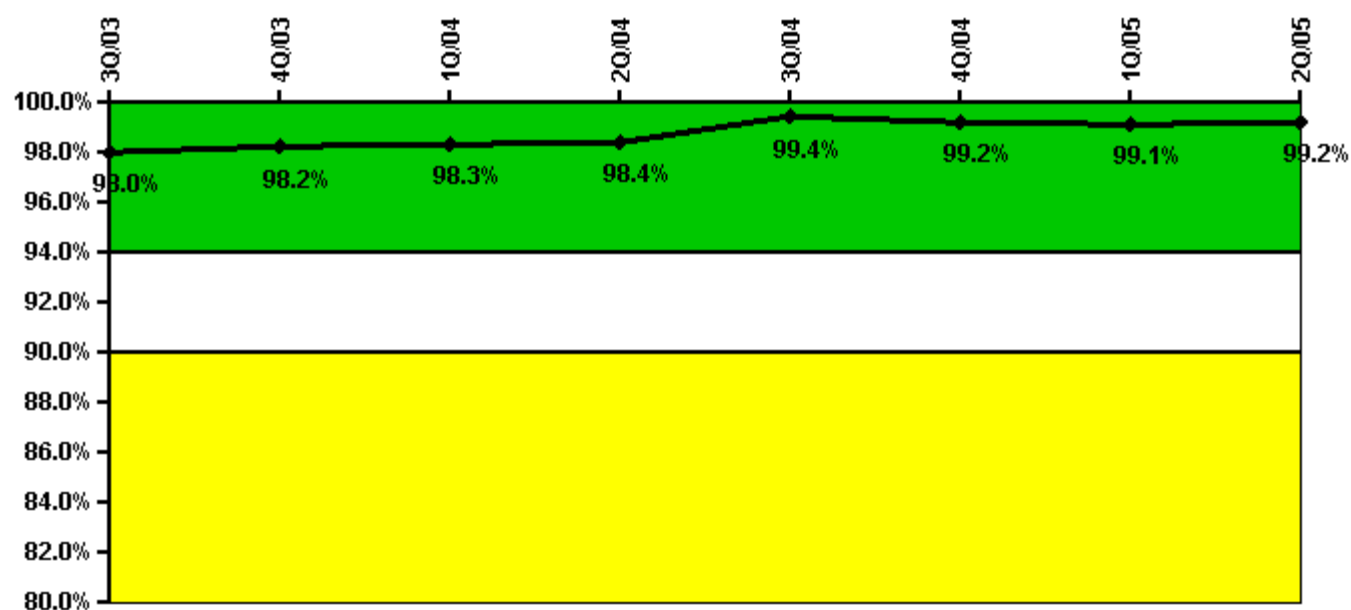
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Participating Key personnel	152.0	154.0	156.0	145.0	150.0	148.0	142.0	136.0
Total Key personnel	159.0	164.0	158.0	161.0	157.0	153.0	152.0	153.0
Indicator value	95.6%	93.9%	98.7%	90.1%	95.5%	96.7%	93.4%	88.9%

Licensee Comments: none

Alert & Notification System



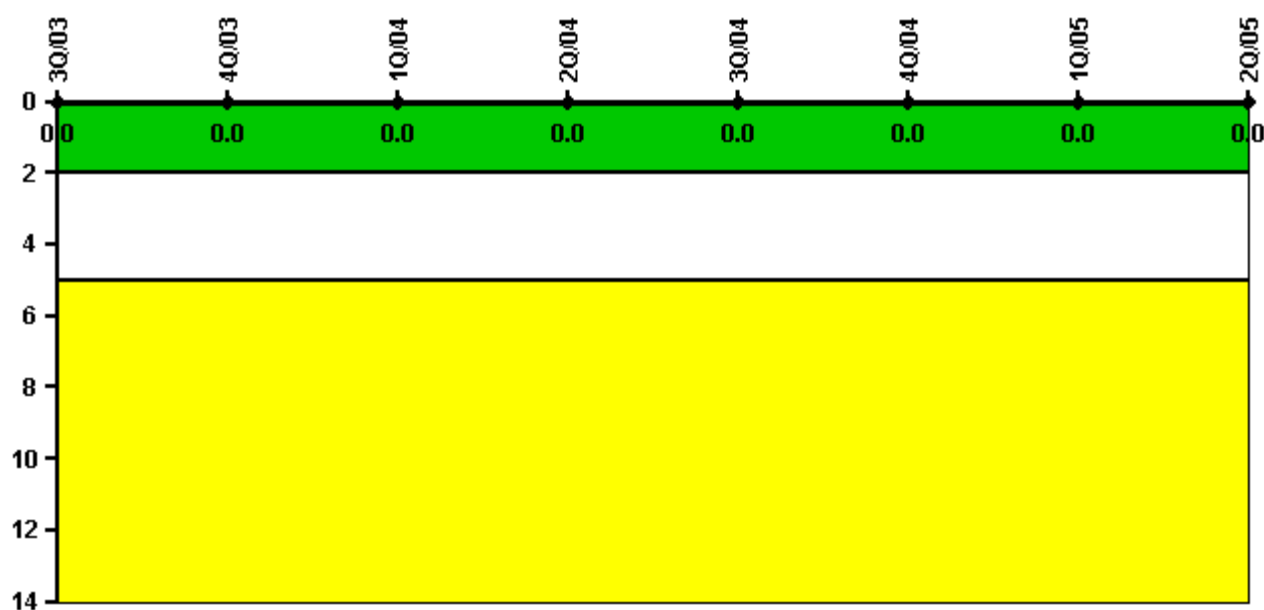
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful siren-tests	510	600	467	533	532	461	534	475
Total sirens-tests	536	603	469	536	536	469	537	476
Indicator value	98.0%	98.2%	98.3%	98.4%	99.4%	99.2%	99.1%	99.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness



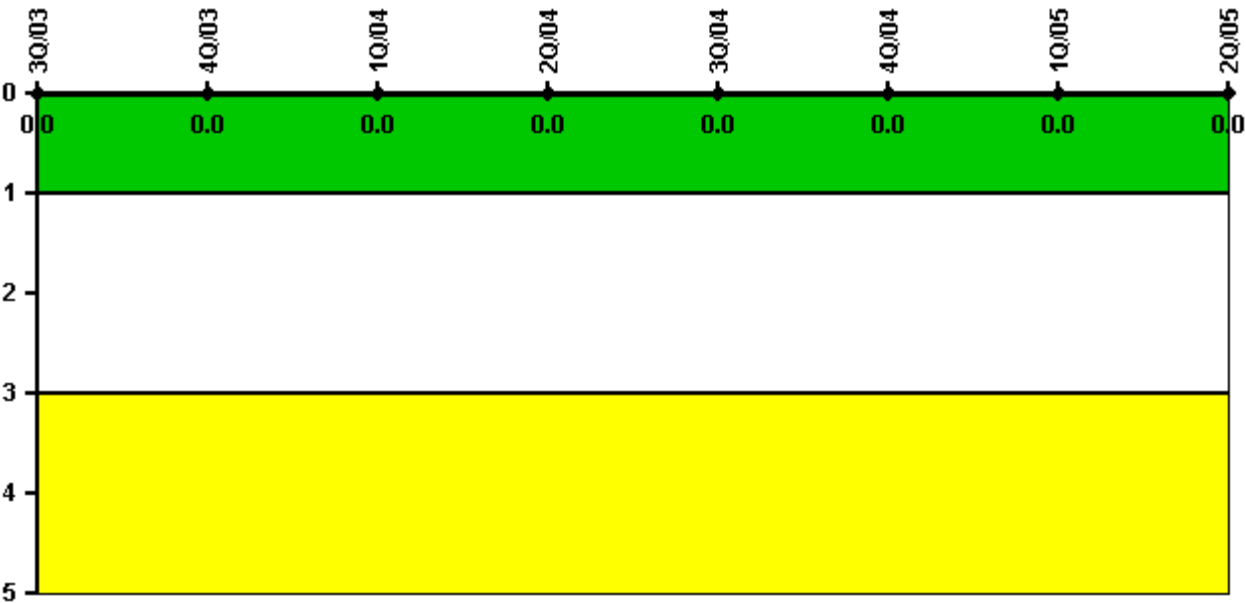
Thresholds: White > 2.0 Yellow > 5.0

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

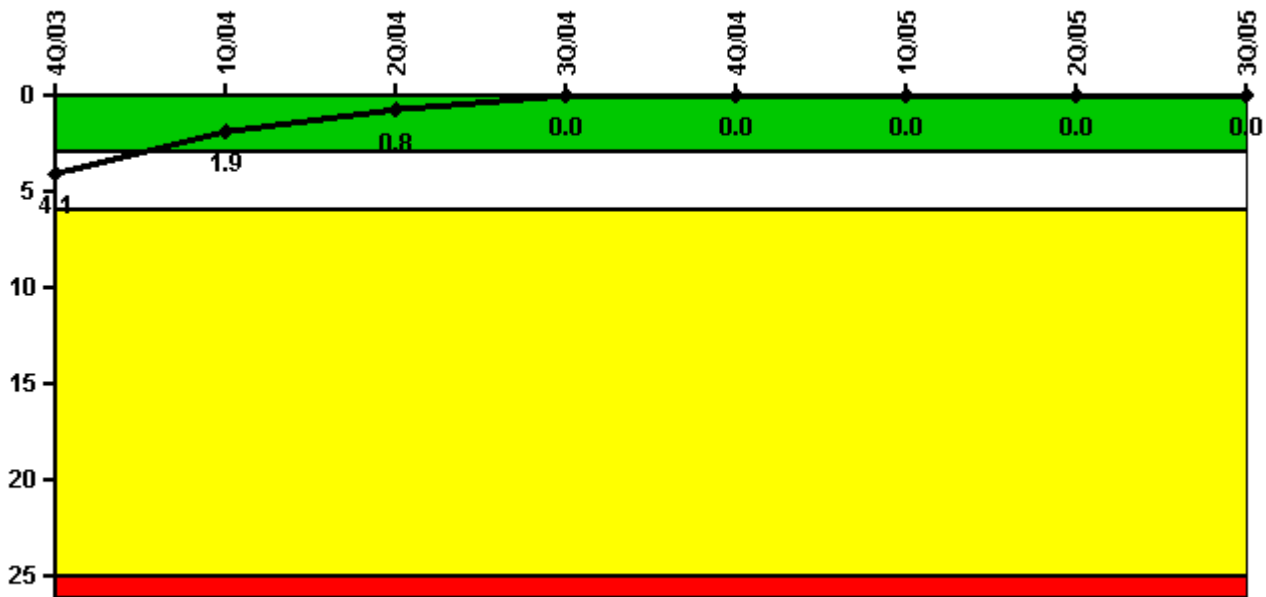
Physical Protection information not publicly available.

Surry 1

3Q/2005 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



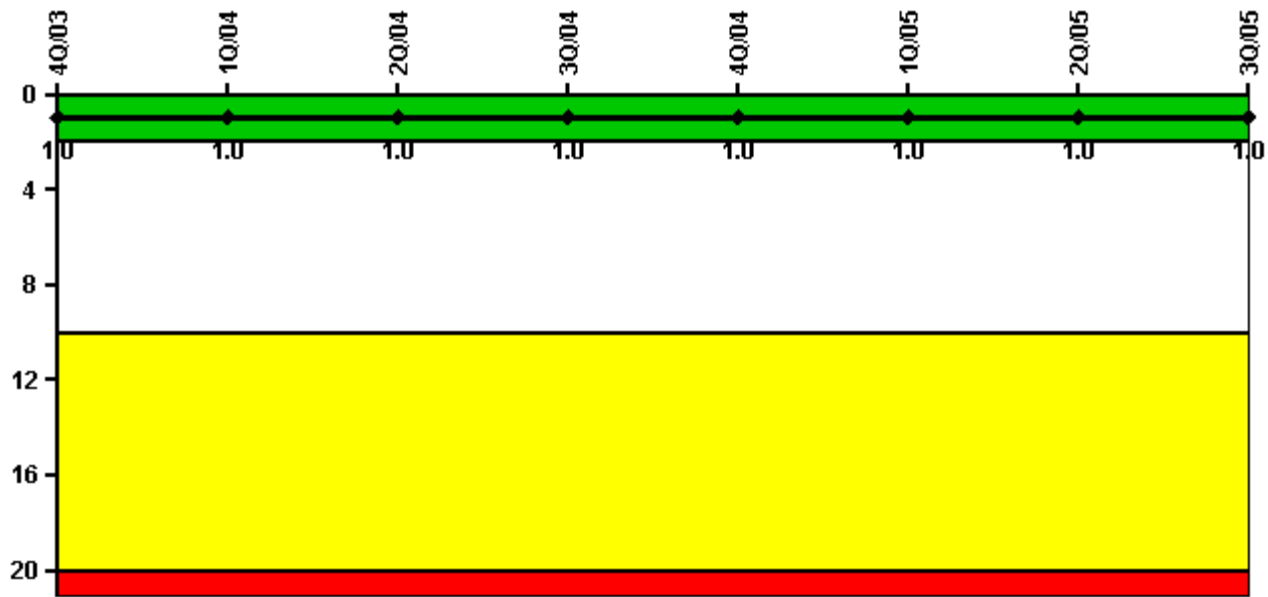
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2008.7	2184.0	2183.0	2208.0	1422.9	2068.5	2183.0	2208.0
Indicator value	4.1	1.9	0.8	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



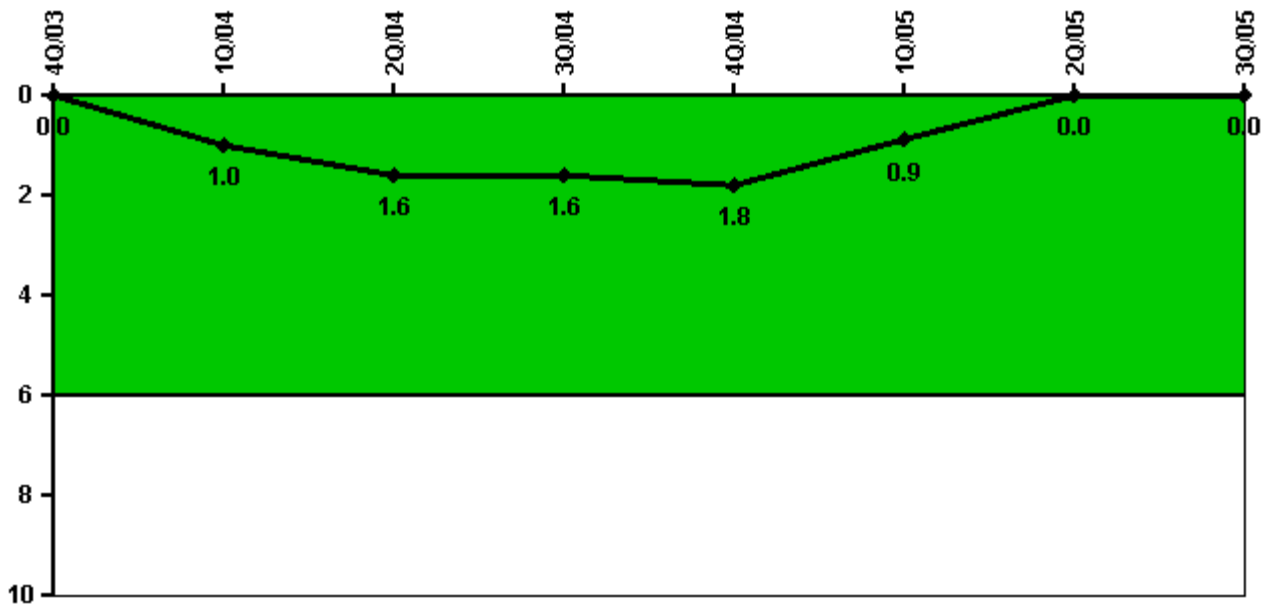
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



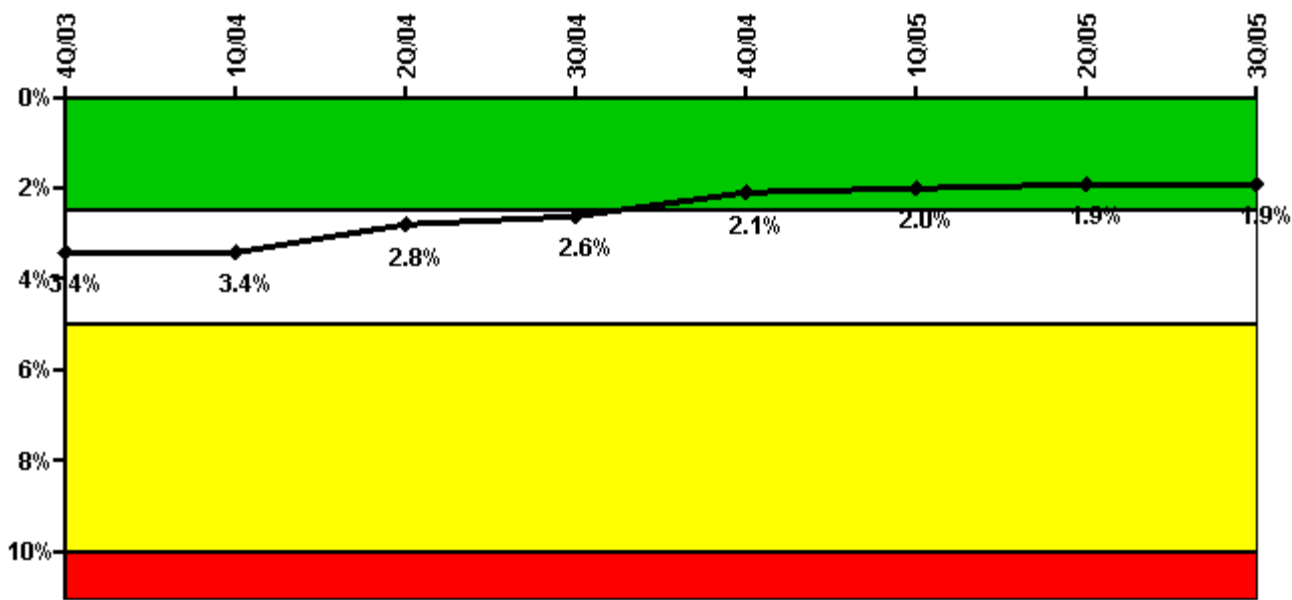
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned power changes	0	1.0	1.0	0	0	0	0	0
Critical hours	2008.7	2184.0	2183.0	2208.0	1422.9	2068.5	2183.0	2208.0
Indicator value	0	1.0	1.6	1.6	1.8	0.9	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



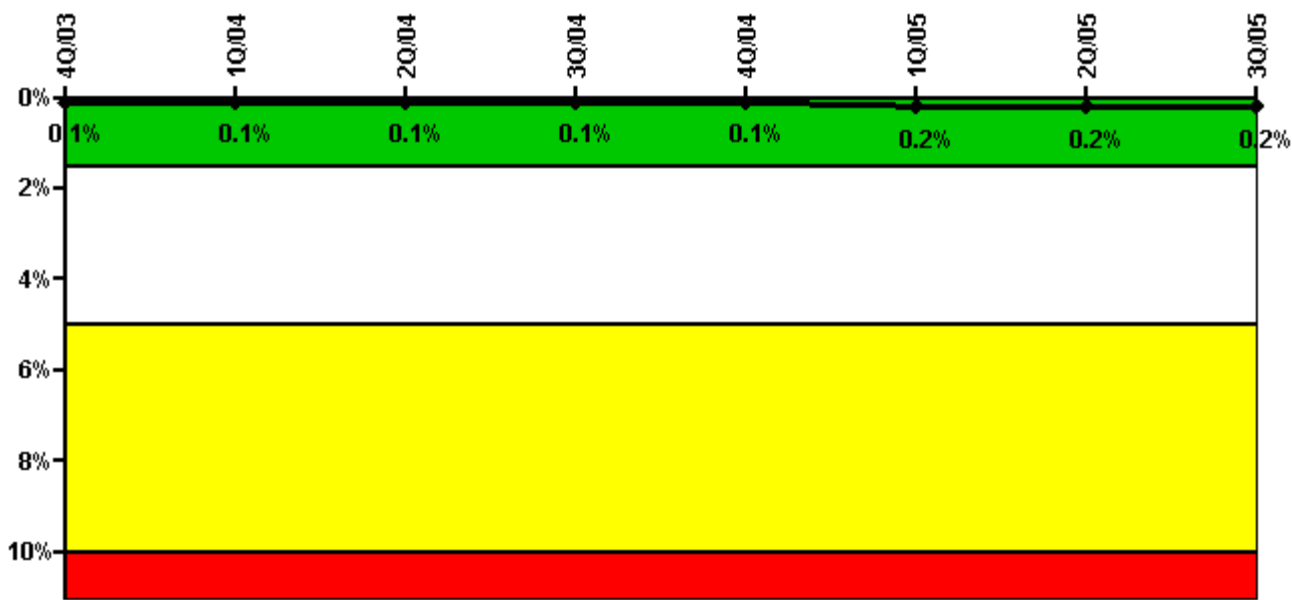
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	11.25	12.45	16.57	17.50	10.27	9.55	12.26	8.86
Unplanned unavailable hours	0	3.83	0	31.00	0	11.87	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2055.52	2184.00	2183.00	2208.00	1462.22	2115.38	2183.00	2208.00
Train 2								
Planned unavailable hours	23.33	21.23	18.94	22.14	18.94	12.02	27.03	24.33
Unplanned unavailable hours	0	0	9.23	0	9.00	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	2055.52	2184.00	2183.00	2208.00	1462.22	2115.38	2183.00	2208.00
Indicator value	3.4%	3.4%	2.8%	2.6%	2.1%	2.0%	1.9%	1.9%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



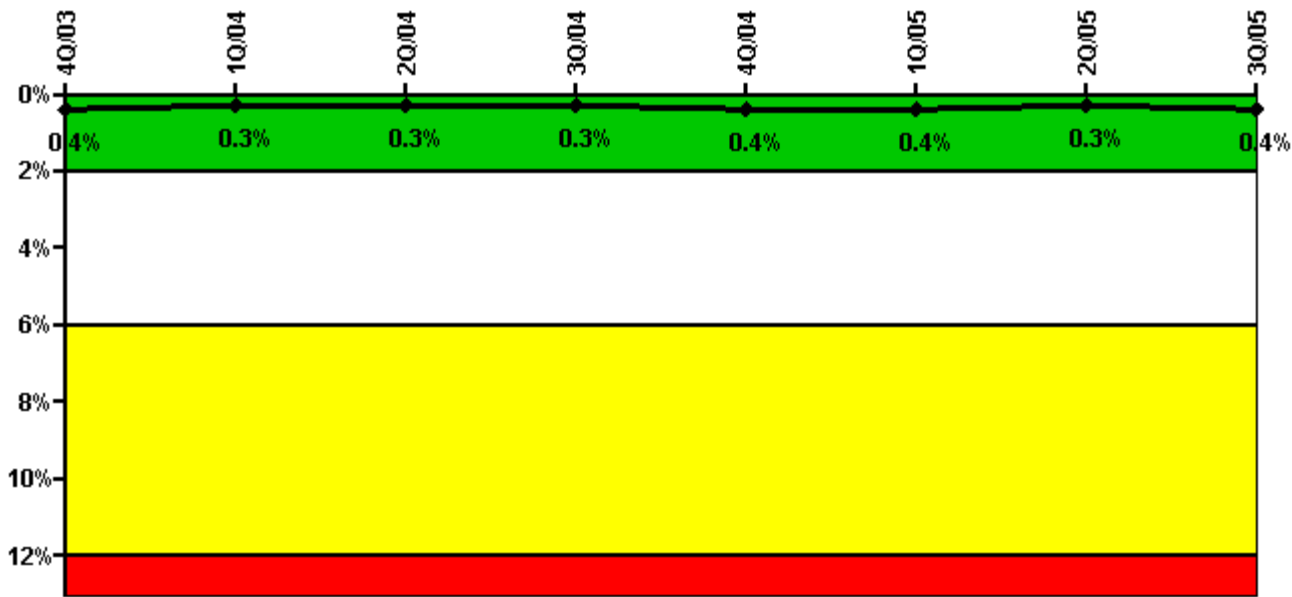
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	1.18	0	5.03	2.36	0	2.96	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	2007.00	2184.00	2183.00	2208.00	1422.90	2068.50	2183.00	2208.00
Train 2								
Planned unavailable hours	11.10	1.85	3.02	1.25	7.30	7.07	2.42	6.75
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2007.00	2184.00	2183.00	2208.00	1422.90	2068.50	2183.00	2208.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	14.03	0.80	0.60	1.18	0	0.95	0.80	26.42
Unplanned unavailable hours	0	0	0	0	0	0	3.30	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	2208.00	2184.00	2183.00	2208.00	1462.20	2115.40	2183.00	2208.00
Train 2								
Planned unavailable hours	1.65	10.00	1.35	1.58	2.85	1.10	1.22	0.98
Unplanned unavailable hours	0	0	0	0	9.98	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2184.00	2183.00	2208.00	1462.20	2115.40	2183.00	2208.00
Train 3								
Planned unavailable hours	35.52	1.65	1.58	15.15	1.20	7.80	1.70	12.90
Unplanned unavailable hours	0	0	0	0	17.71	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2007.00	2184.00	2183.00	2208.00	1441.60	2105.90	2183.00	2208.00
Indicator value	0.4%	0.3%	0.3%	0.3%	0.4%	0.4%	0.3%	0.4%

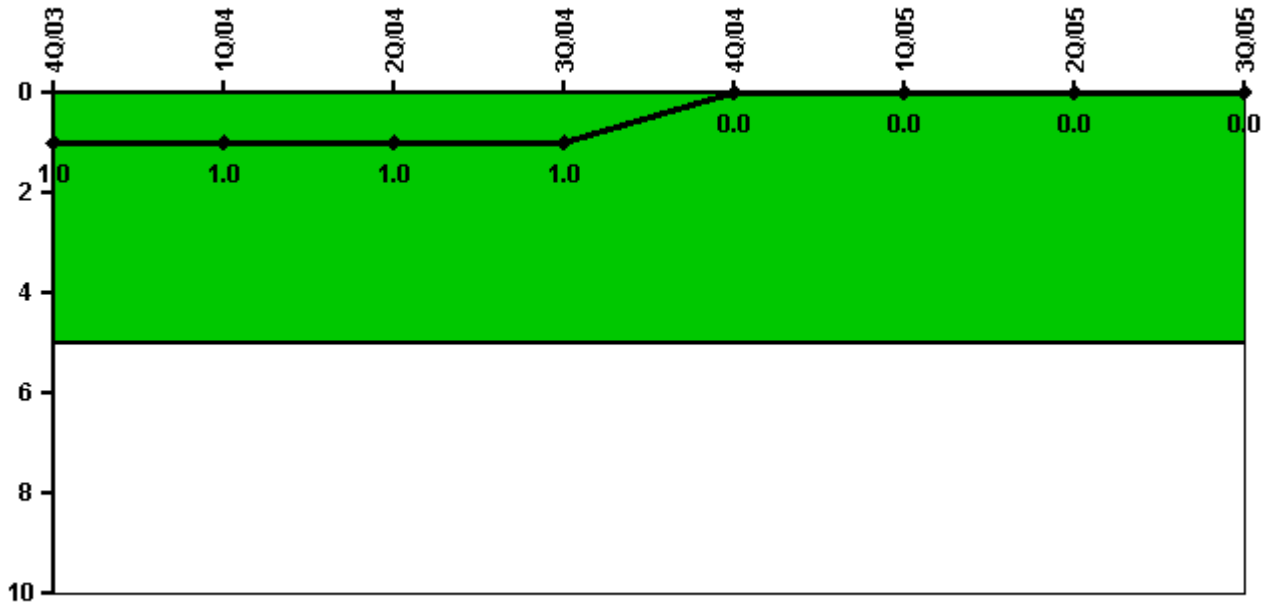
Licensee Comments: none

Notes

[illegible]

Licensee Comments: none

Safety System Functional Failures (PWR)



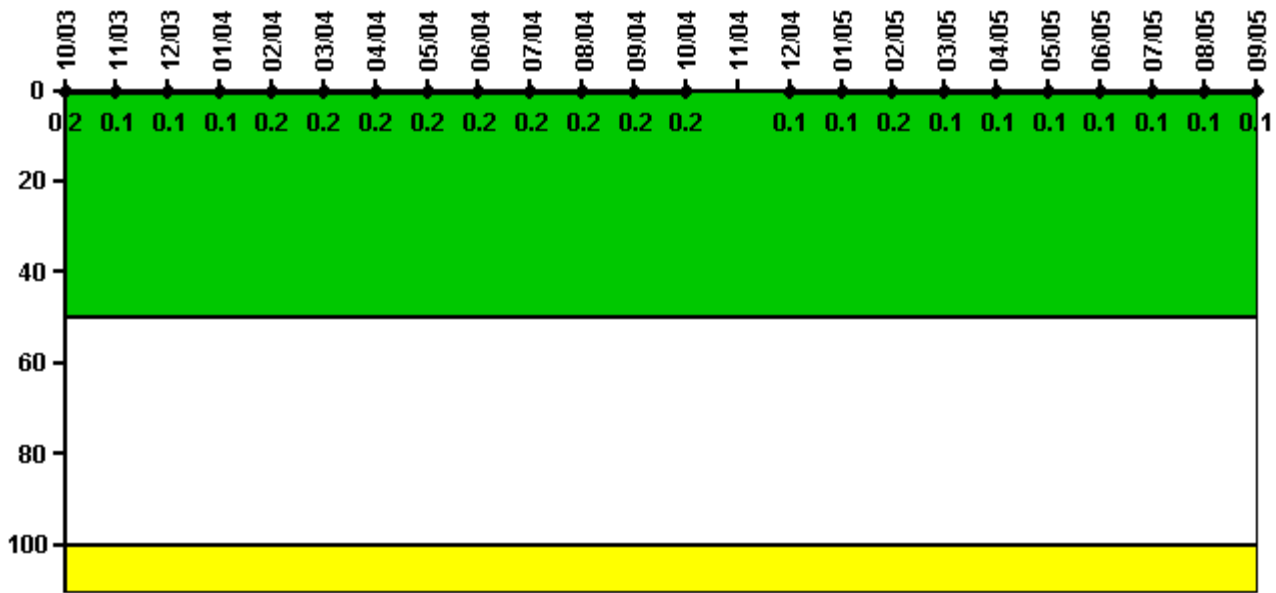
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



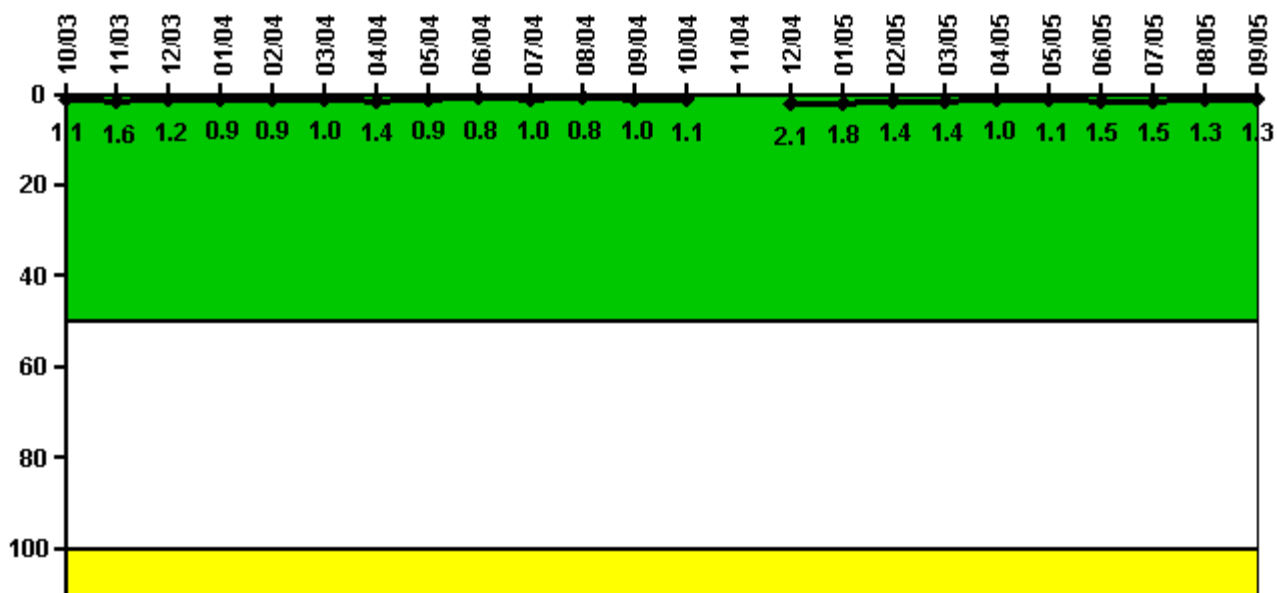
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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	0.002180	0.001300	0.001400	0.001420	0.001540	0.001670	0.001720	0.001700	0.001710	0.001780	0.002040	0.001980
Technical specification limit	1.0	1.0	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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	0.002010	N/A	0.000968	0.001300	0.001520	0.001200	0.001160	0.001190	0.001350	0.001460	0.001350	0.001480
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	N/A	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



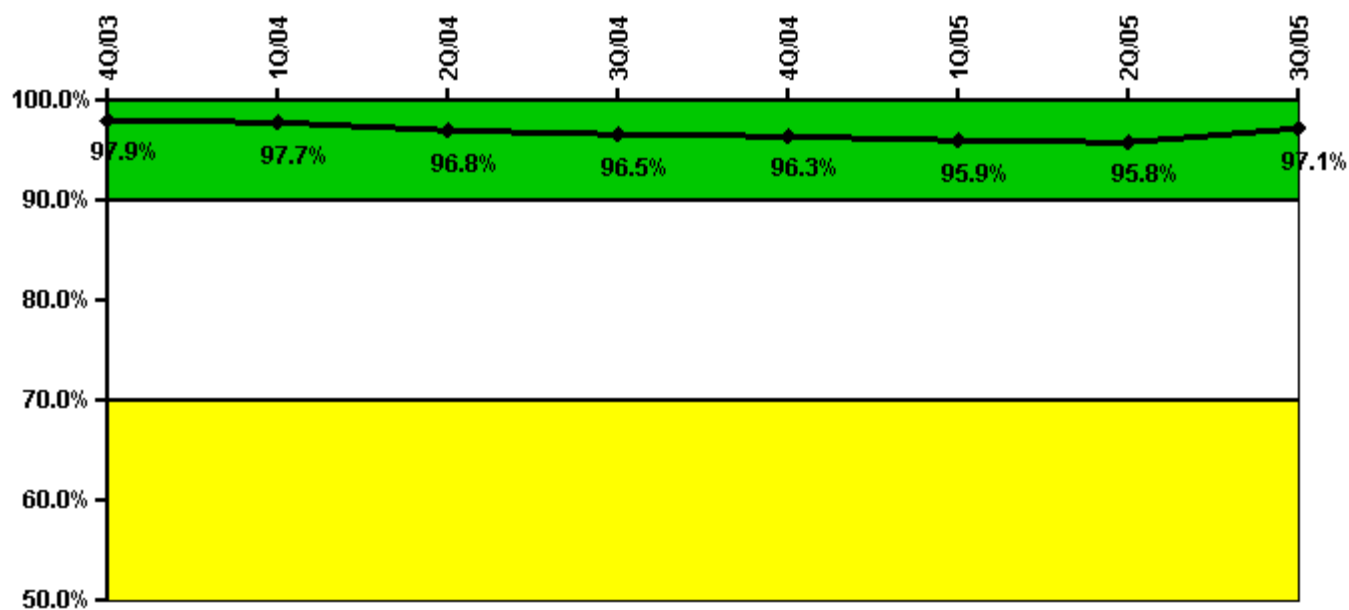
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.110	0.160	0.120	0.090	0.090	0.100	0.140	0.090	0.080	0.100	0.080	0.100
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.1	1.6	1.2	0.9	0.9	1.0	1.4	0.9	0.8	1.0	0.8	1.0
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	0.110	N/A	0.210	0.180	0.140	0.140	0.100	0.110	0.150	0.150	0.130	0.130
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.1	N/A	2.1	1.8	1.4	1.4	1.0	1.1	1.5	1.5	1.3	1.3

Licensee Comments: none

Drill/Exercise Performance



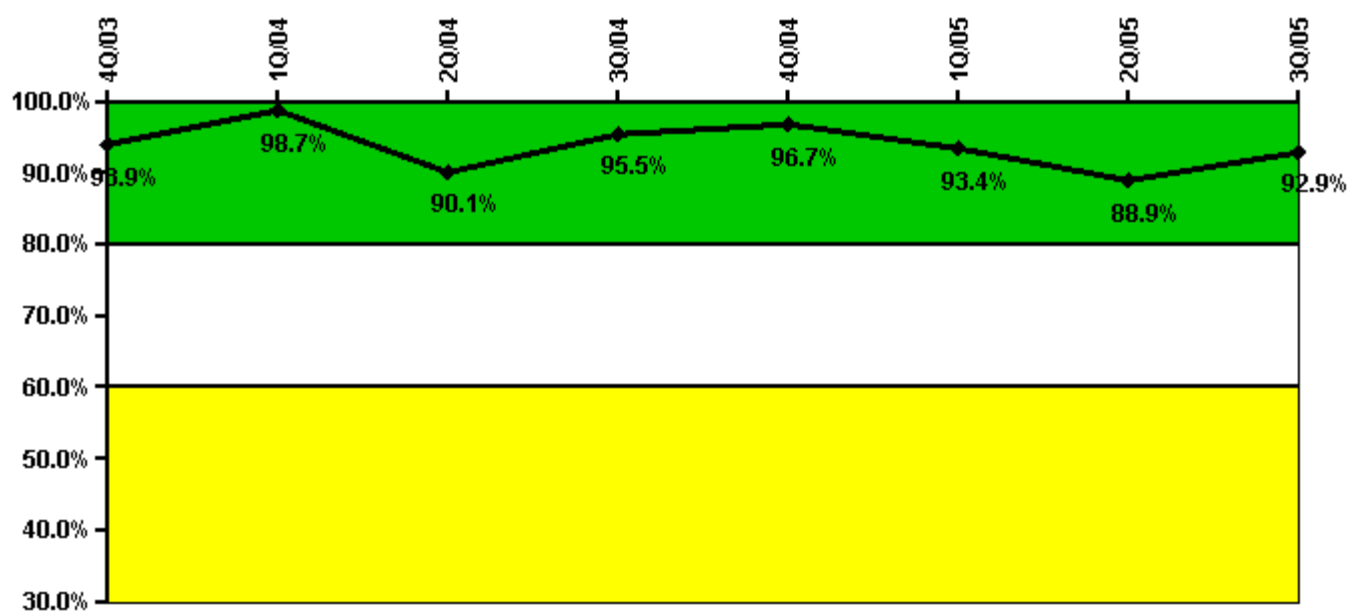
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Successful opportunities	0	16.0	12.0	32.0	8.0	19.0	20.0	29.0
Total opportunities	0	16.0	13.0	34.0	8.0	20.0	20.0	29.0
Indicator value	97.9%	97.7%	96.8%	96.5%	96.3%	95.9%	95.8%	97.1%

Licensee Comments: none

ERO Drill Participation



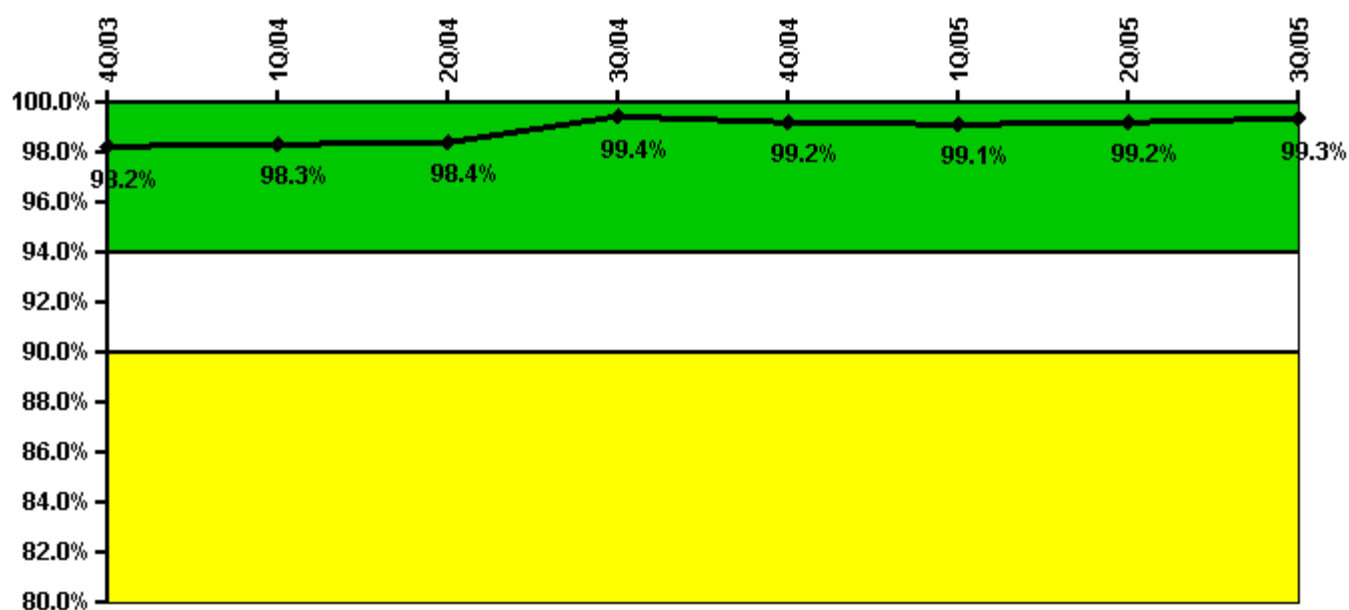
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Participating Key personnel	154.0	156.0	145.0	150.0	148.0	142.0	136.0	144.0
Total Key personnel	164.0	158.0	161.0	157.0	153.0	152.0	153.0	155.0
Indicator value	93.9%	98.7%	90.1%	95.5%	96.7%	93.4%	88.9%	92.9%

Licensee Comments: none

Alert & Notification System



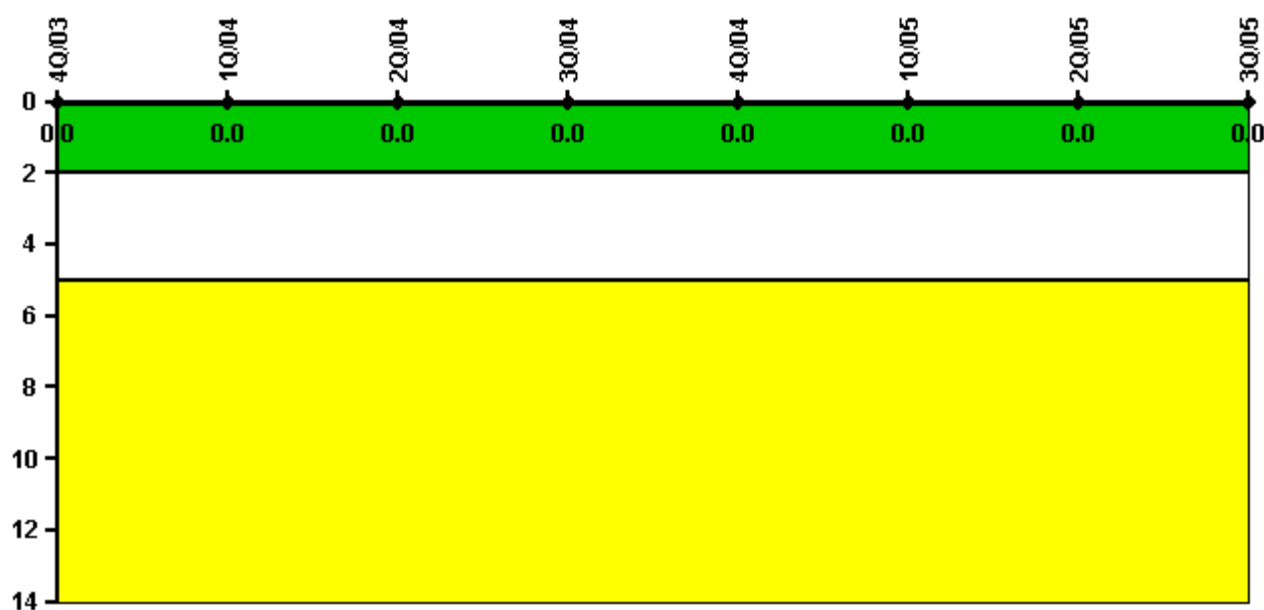
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Successful siren-tests	600	467	533	532	461	534	475	541
Total sirens-tests	603	469	536	536	469	537	476	544
Indicator value	98.2%	98.3%	98.4%	99.4%	99.2%	99.1%	99.2%	99.3%

Licensee Comments: none

Occupational Exposure Control Effectiveness



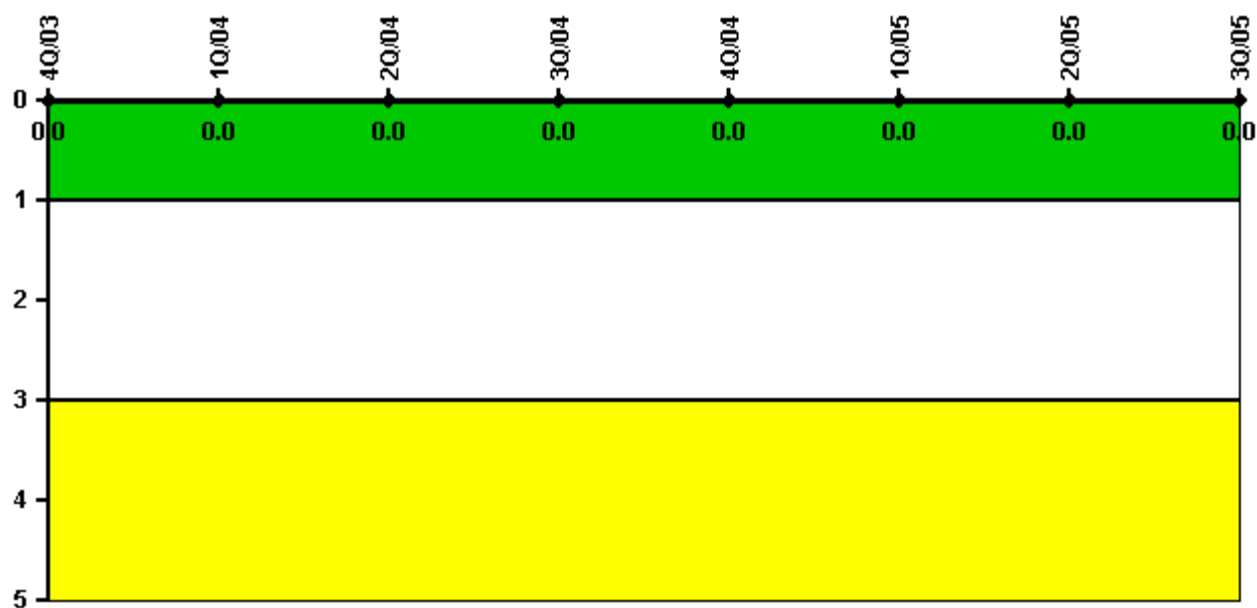
Thresholds: White > 2.0 Yellow > 5.0

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

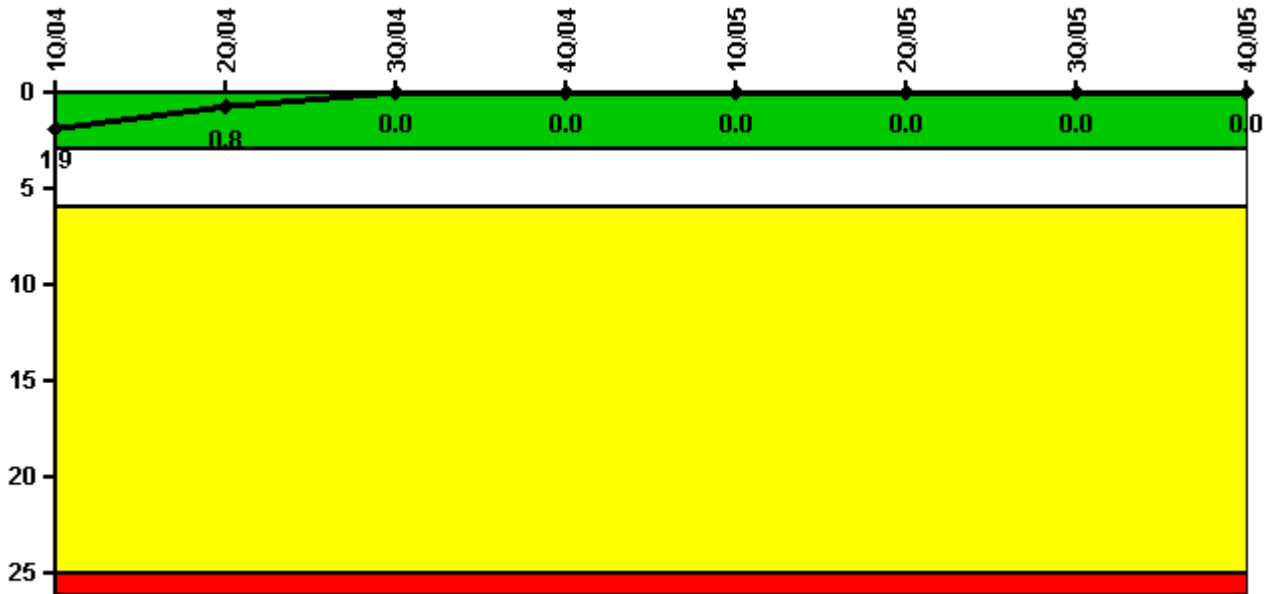
[Physical Protection](#) information not publicly available.

Surry 1

4Q/2005 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



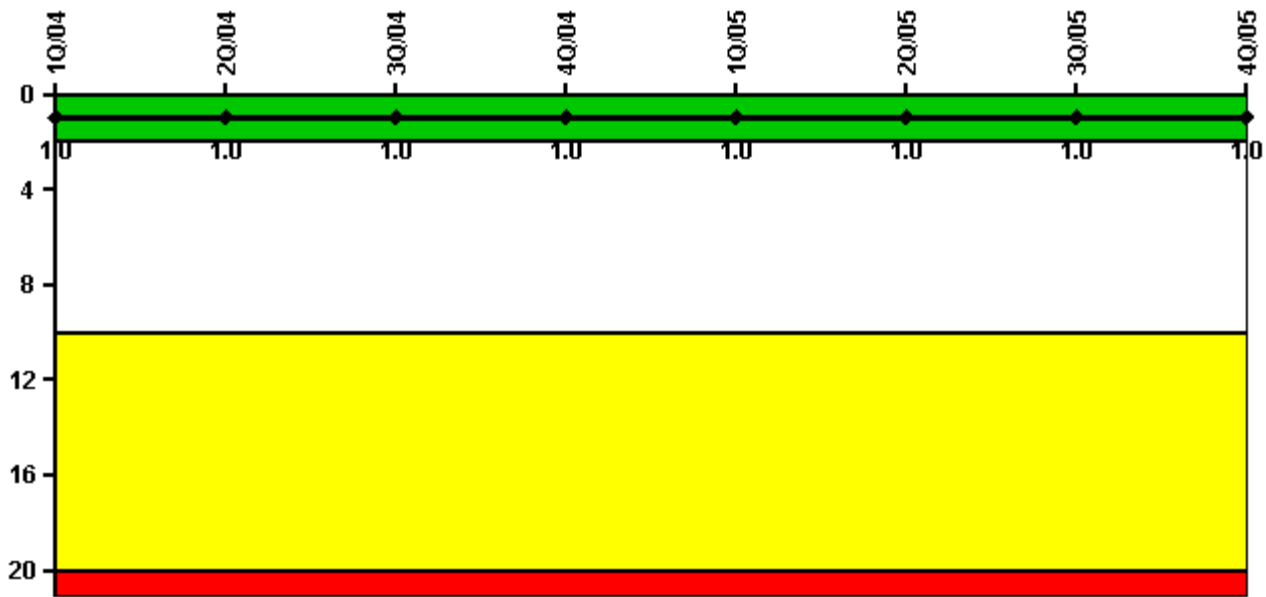
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	2183.0	2208.0	1422.9	2068.5	2183.0	2208.0	1964.0
Indicator value	1.9	0.8	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



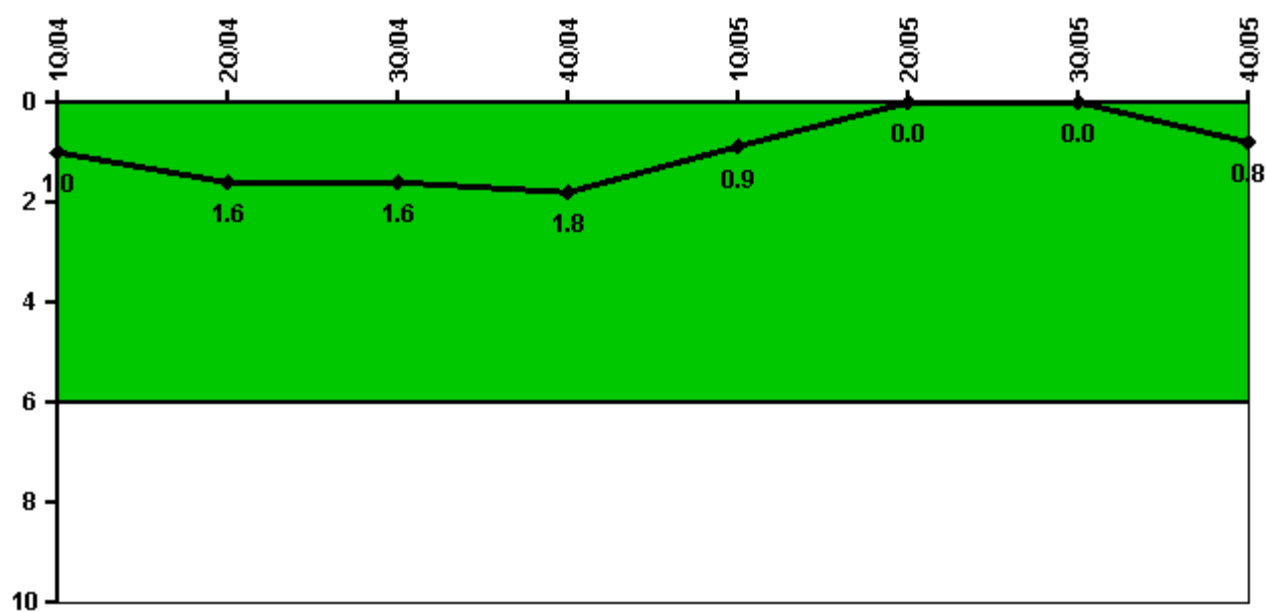
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



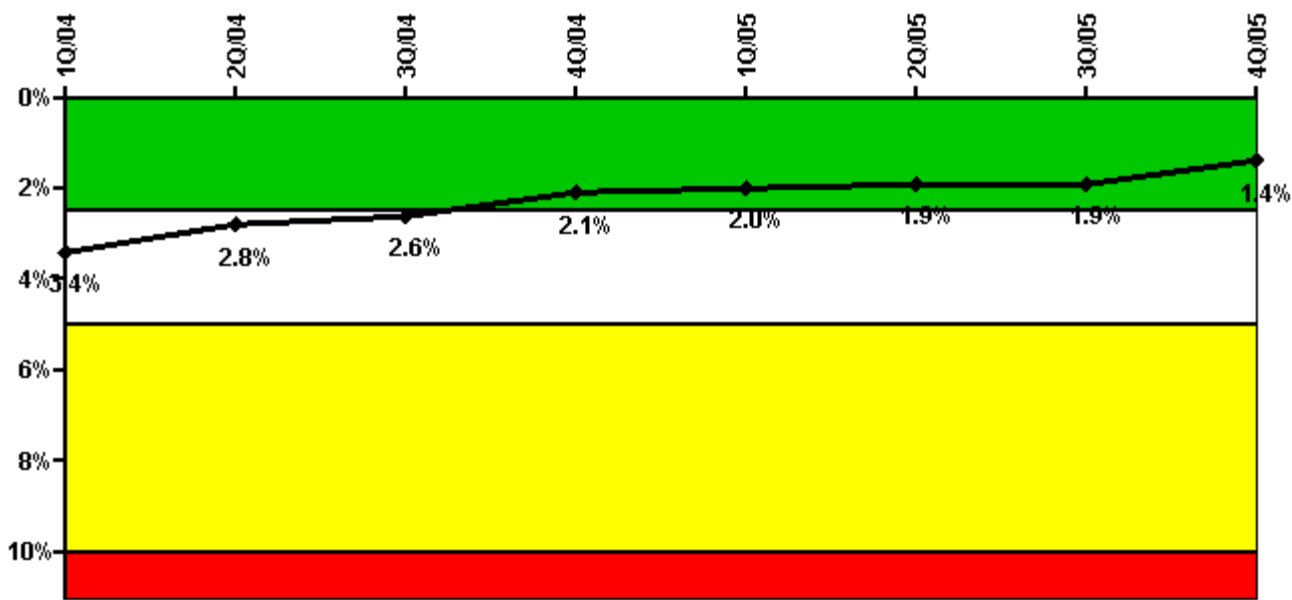
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned power changes	1.0	1.0	0	0	0	0	0	1.0
Critical hours	2184.0	2183.0	2208.0	1422.9	2068.5	2183.0	2208.0	1964.0
Indicator value	1.0	1.6	1.6	1.8	0.9	0	0	0.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



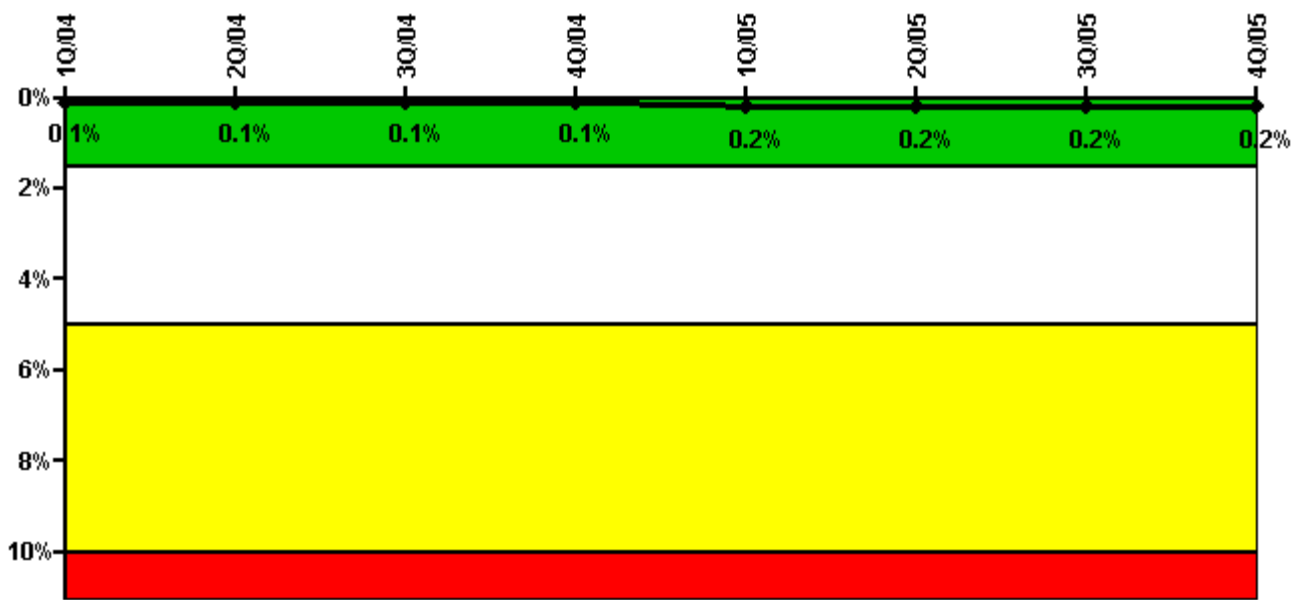
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	12.45	16.57	17.50	10.27	9.55	12.26	8.86	10.17
Unplanned unavailable hours	3.83	0	31.00	0	11.87	0	0	7.15
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	1462.22	2115.38	2183.00	2208.00	1998.37
Train 2								
Planned unavailable hours	21.23	18.94	22.14	18.94	12.02	27.03	24.33	4.98
Unplanned unavailable hours	0	9.23	0	9.00	0	0	0	37.83
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1462.22	2115.38	2183.00	2208.00	1998.37
Indicator value	3.4%	2.8%	2.6%	2.1%	2.0%	1.9%	1.9%	1.4%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



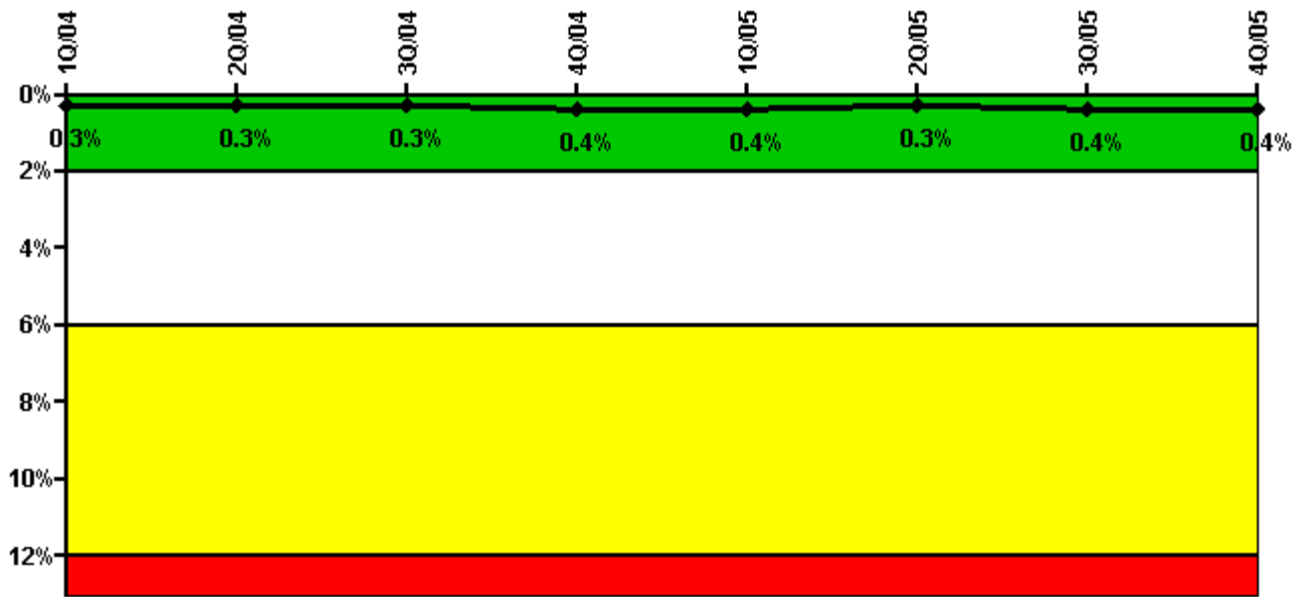
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	0	5.03	2.36	0	2.96	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	1422.90	2068.50	2183.00	2208.00	1964.03
Train 2								
Planned unavailable hours	1.85	3.02	1.25	7.30	7.07	2.42	6.75	2.41
Unplanned unavailable hours	0	0	0	0	0	0	0	0
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	1422.90	2068.50	2183.00	2208.00	1964.03
Indicator value	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	0.80	0.60	1.18	0	0.95	0.80	26.42	0.93
Unplanned unavailable hours	0	0	0	0	0	3.30	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	2184.00	2183.00	2208.00	1462.20	2115.40	2183.00	2208.00	1998.40
Train 2								
Planned unavailable hours	10.00	1.35	1.58	2.85	1.10	1.22	0.98	0.88
Unplanned unavailable hours	0	0	0	9.98	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1462.20	2115.40	2183.00	2208.00	1998.40
Train 3								
Planned unavailable hours	1.65	1.58	15.15	1.20	7.80	1.70	12.90	2.13
Unplanned unavailable hours	0	0	0	17.71	0	0	0	0
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	1441.60	2105.90	2183.00	2208.00	1988.80
Indicator value	0.3%	0.3%	0.3%	0.4%	0.4%	0.3%	0.4%	0.4%

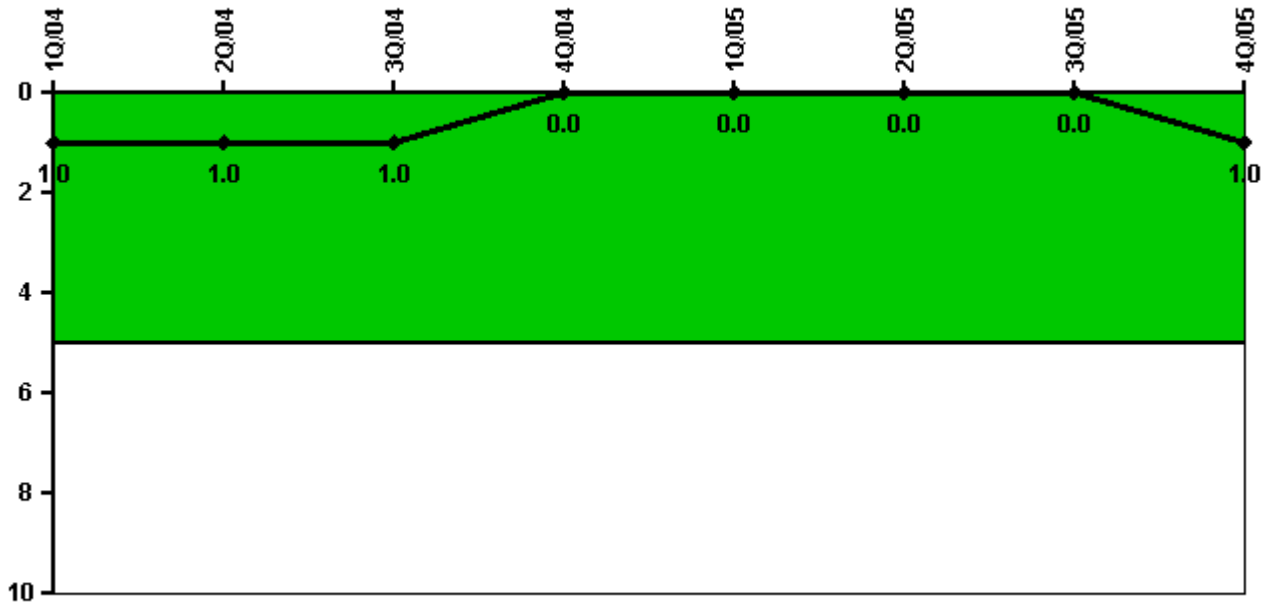
Licensee Comments: none

Notes

[illegible]

Licensee Comments: none

Safety System Functional Failures (PWR)



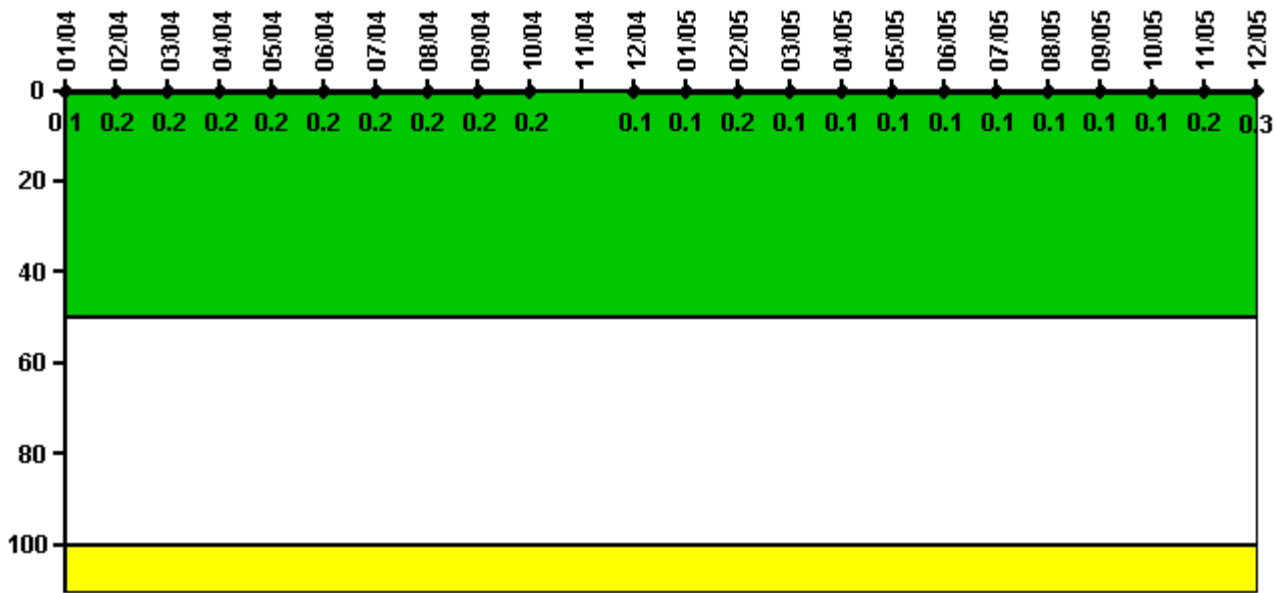
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

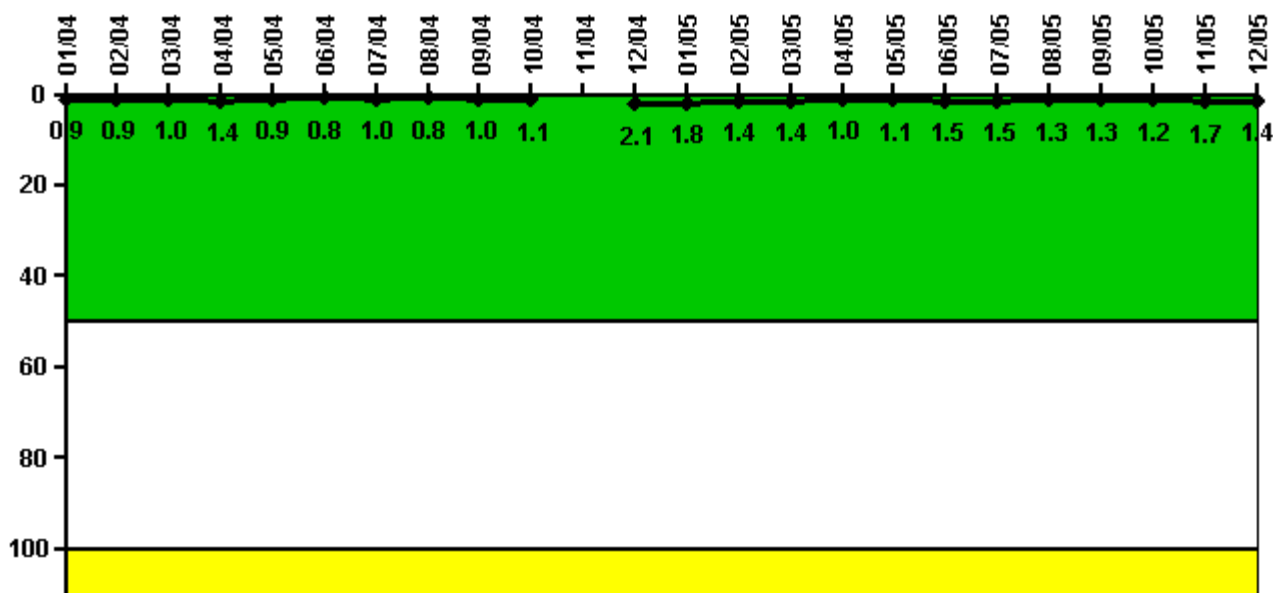
Notes

Reactor Coolant System Activity	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum activity	0.001420	0.001540	0.001670	0.001720	0.001700	0.001710	0.001780	0.002040	0.001980	0.002010	N/A	0.000968
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N/A	0.1

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	0.001300	0.001520	0.001200	0.001160	0.001190	0.001350	0.001460	0.001350	0.001480	0.001460	0.001630	0.003080
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3

Licensee Comments: none

Reactor Coolant System Leakage



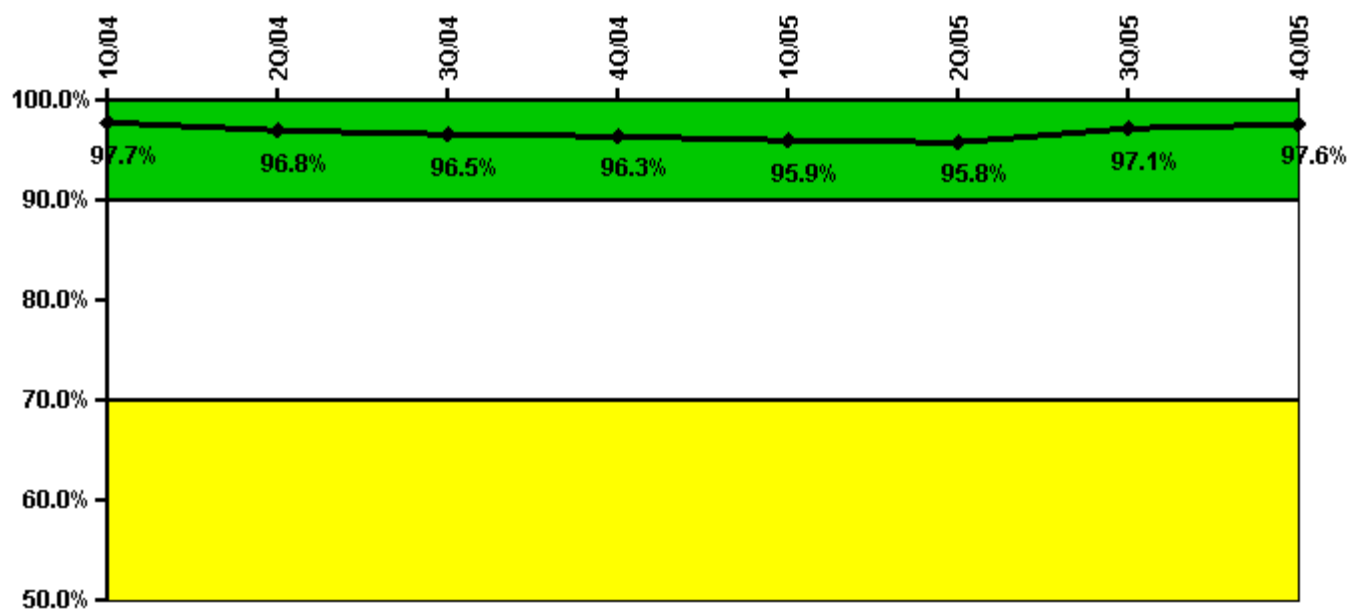
Thresholds: White > 50.0 Yellow > 100.0

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	0.090	0.090	0.100	0.140	0.090	0.080	0.100	0.080	0.100	0.110	N/A	0.210
Technical specification limit	10.0	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	0.9	1.0	1.4	0.9	0.8	1.0	0.8	1.0	1.1	N/A	2.1
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	0.180	0.140	0.140	0.100	0.110	0.150	0.150	0.130	0.130	0.120	0.170	0.140
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.8	1.4	1.4	1.0	1.1	1.5	1.5	1.3	1.3	1.2	1.7	1.4

Licensee Comments: none

Drill/Exercise Performance



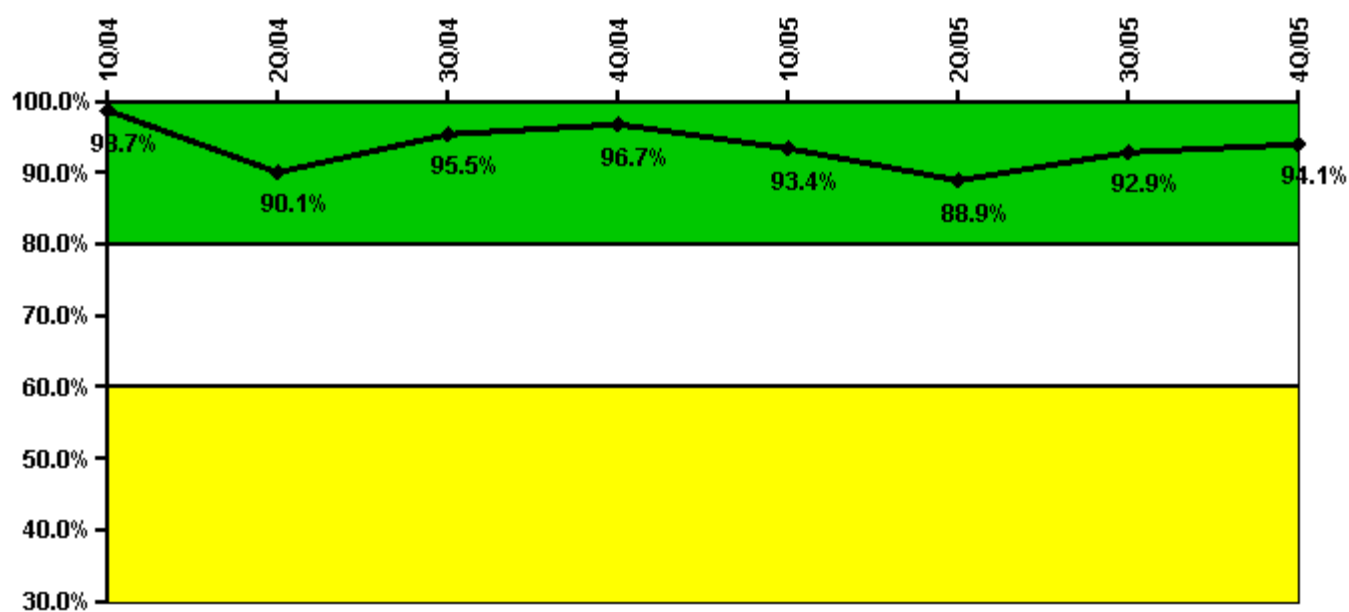
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful opportunities	16.0	12.0	32.0	8.0	19.0	20.0	29.0	27.0
Total opportunities	16.0	13.0	34.0	8.0	20.0	20.0	29.0	27.0
Indicator value	97.7%	96.8%	96.5%	96.3%	95.9%	95.8%	97.1%	97.6%

Licensee Comments: none

ERO Drill Participation



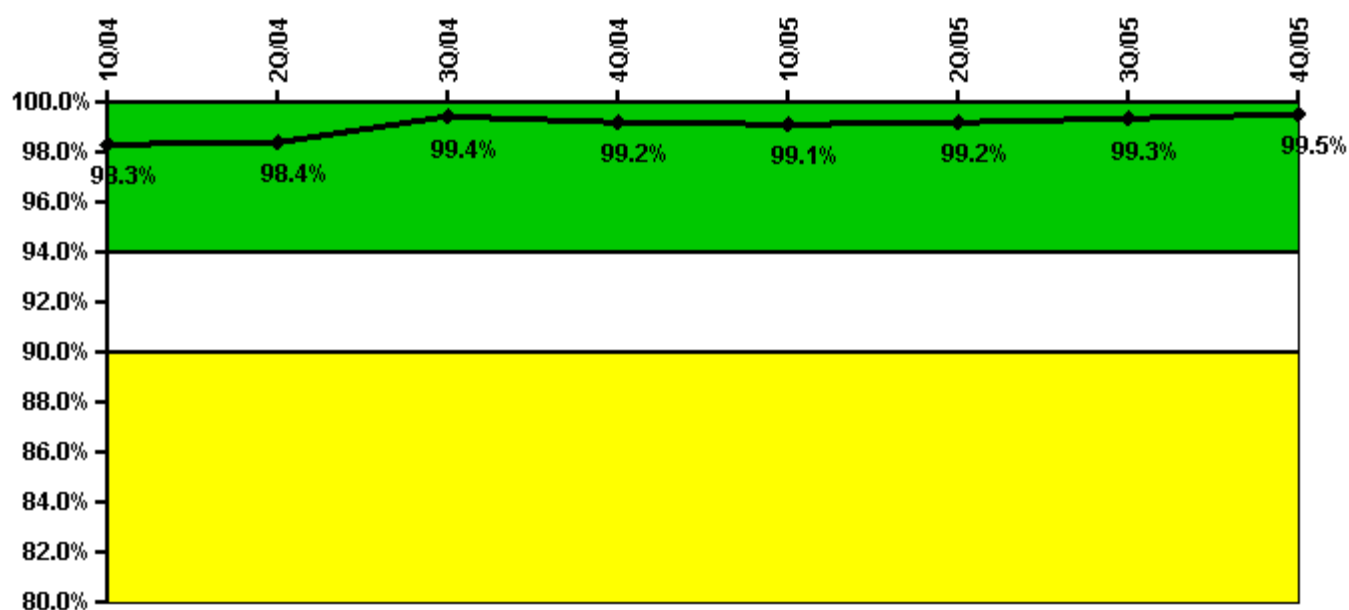
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Participating Key personnel	156.0	145.0	150.0	148.0	142.0	136.0	144.0	144.0
Total Key personnel	158.0	161.0	157.0	153.0	152.0	153.0	155.0	153.0
Indicator value	98.7%	90.1%	95.5%	96.7%	93.4%	88.9%	92.9%	94.1%

Licensee Comments: none

Alert & Notification System



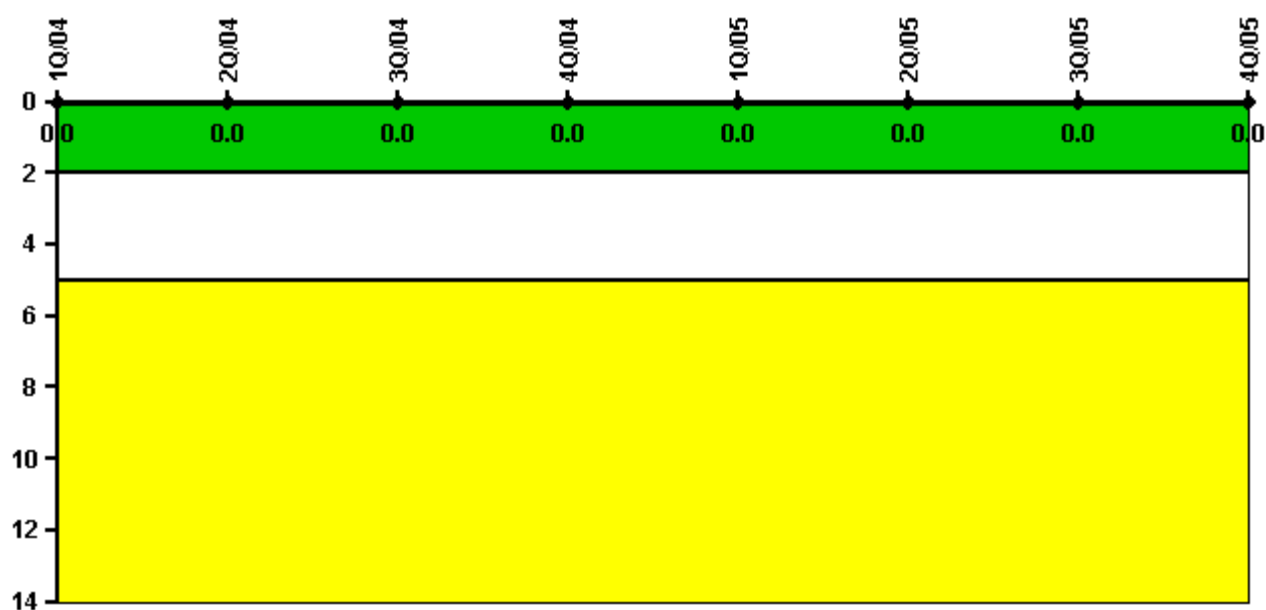
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful siren-tests	467	533	532	461	534	475	541	473
Total sirens-tests	469	536	536	469	537	476	544	476
Indicator value	98.3%	98.4%	99.4%	99.2%	99.1%	99.2%	99.3%	99.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness



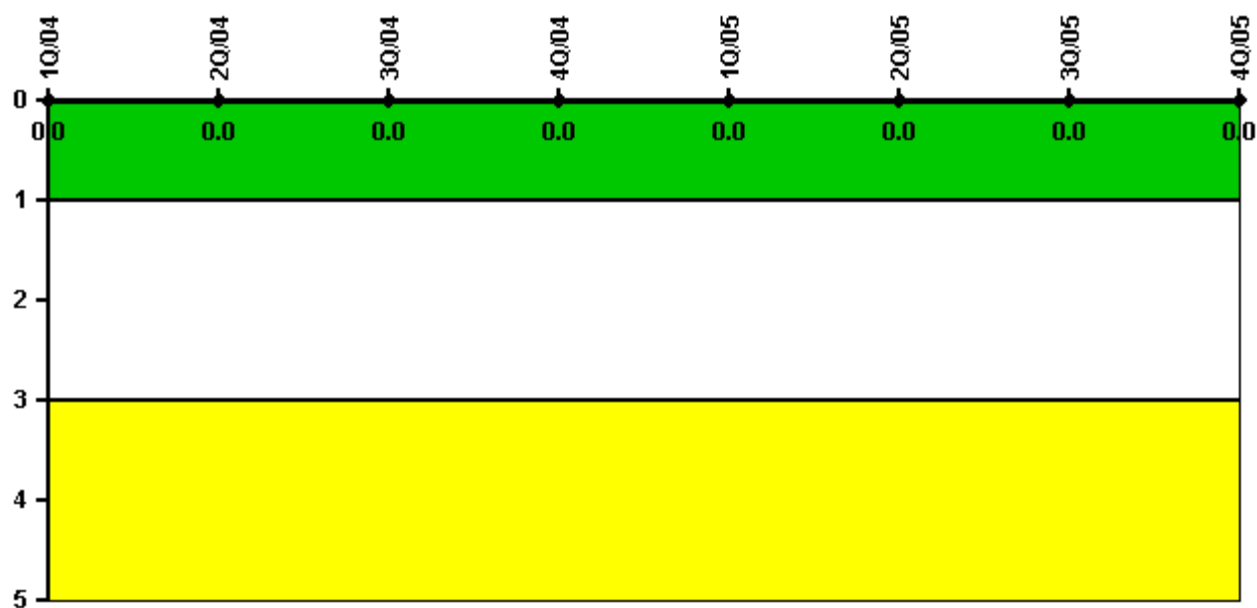
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

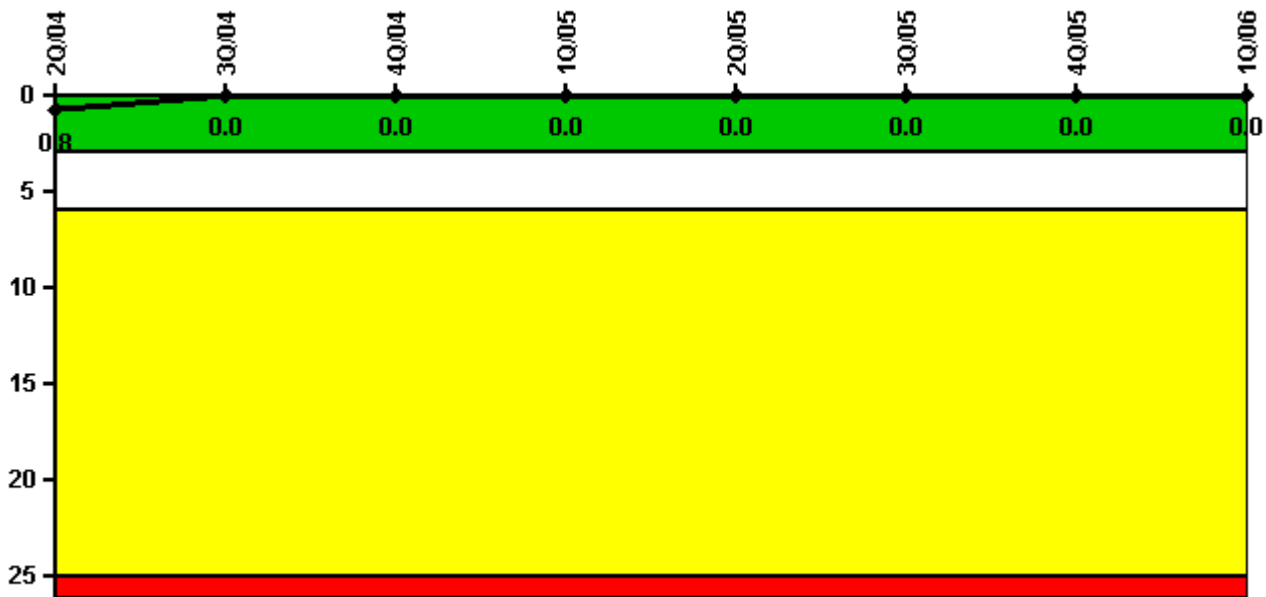
[Physical Protection](#) information not publicly available.

Surry 1

1Q/2006 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



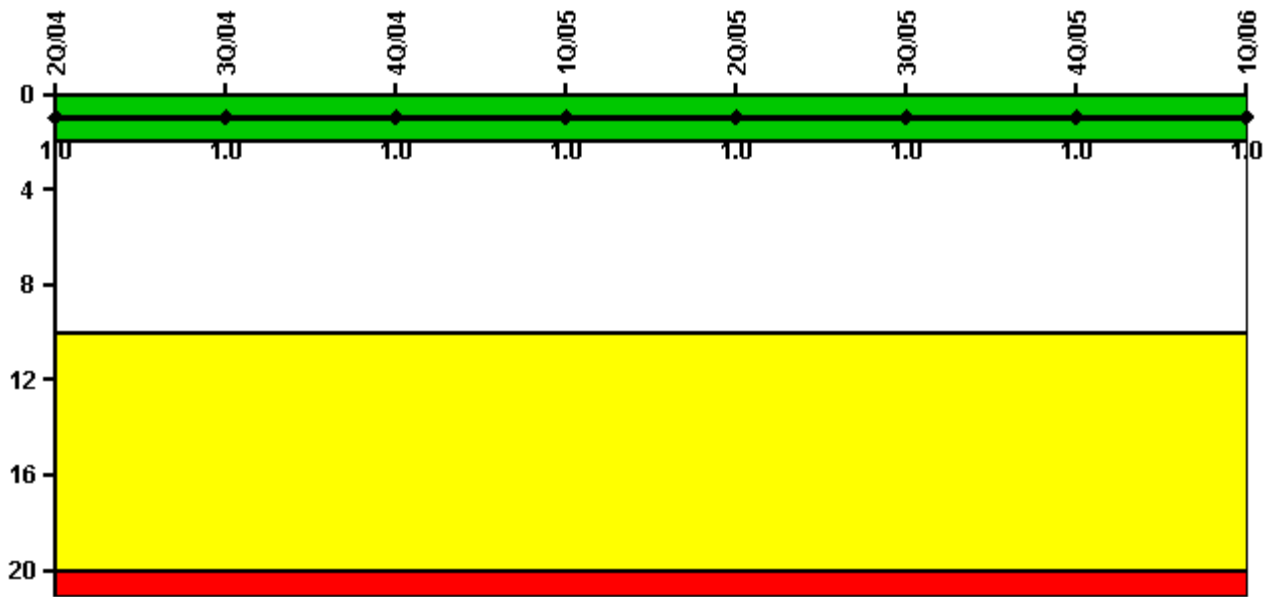
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	2208.0	1422.9	2068.5	2183.0	2208.0	1964.0	2160.0
Indicator value	0.8	0	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



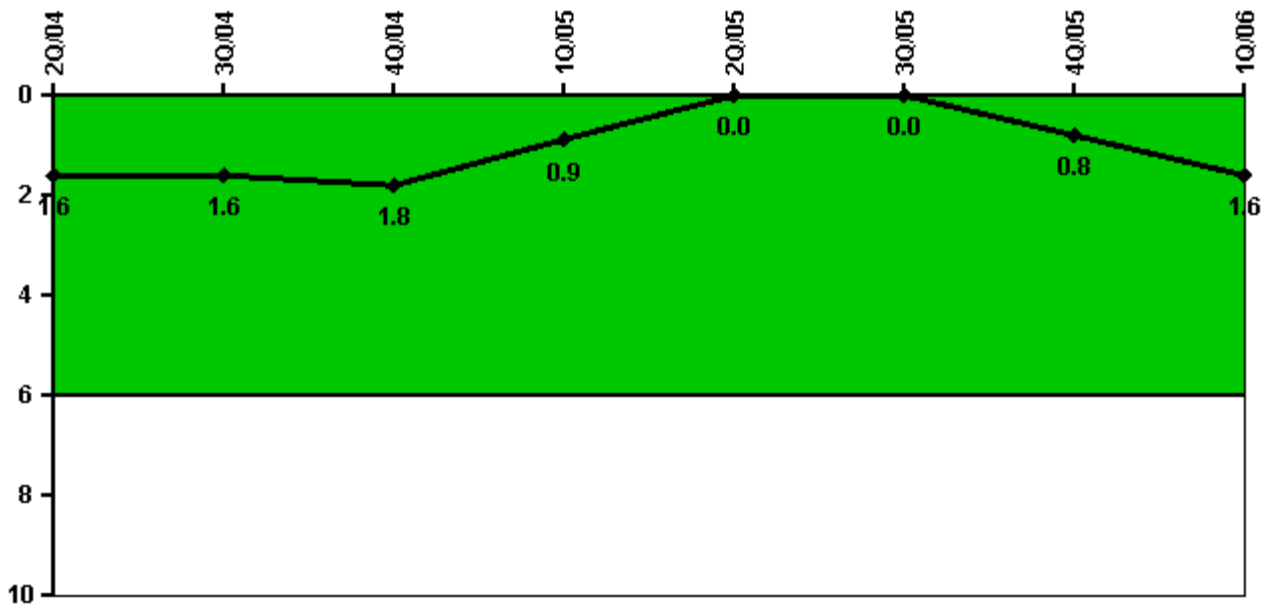
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



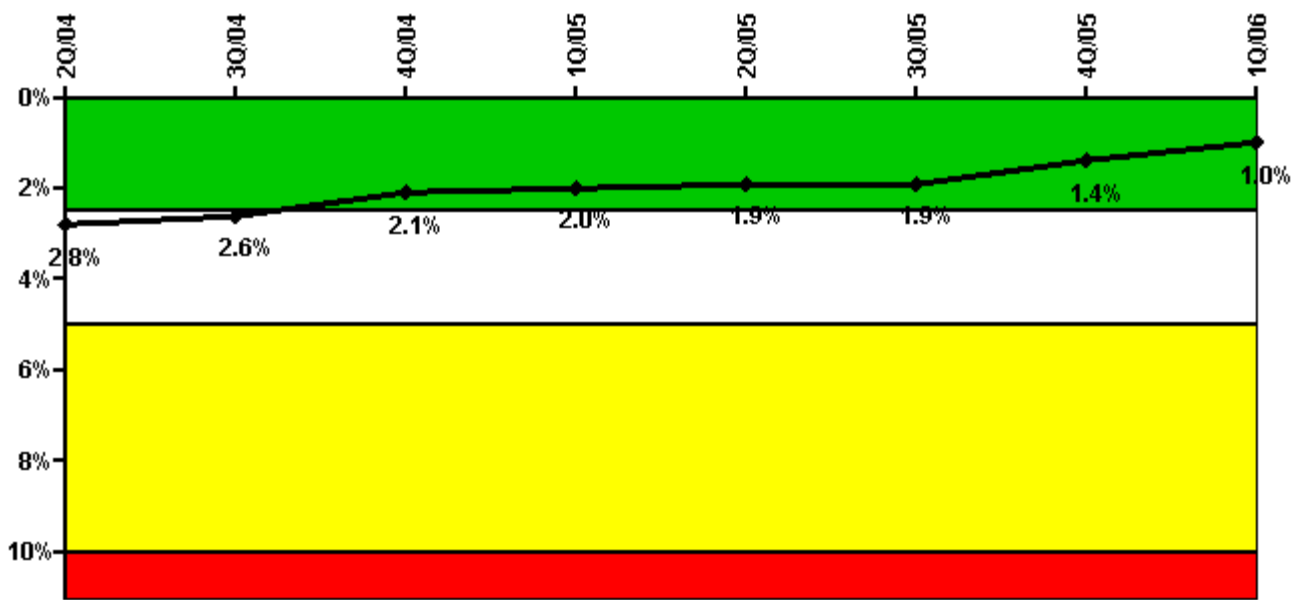
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned power changes	1.0	0	0	0	0	0	1.0	1.0
Critical hours	2183.0	2208.0	1422.9	2068.5	2183.0	2208.0	1964.0	2160.0
Indicator value	1.6	1.6	1.8	0.9	0	0	0.8	1.6

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



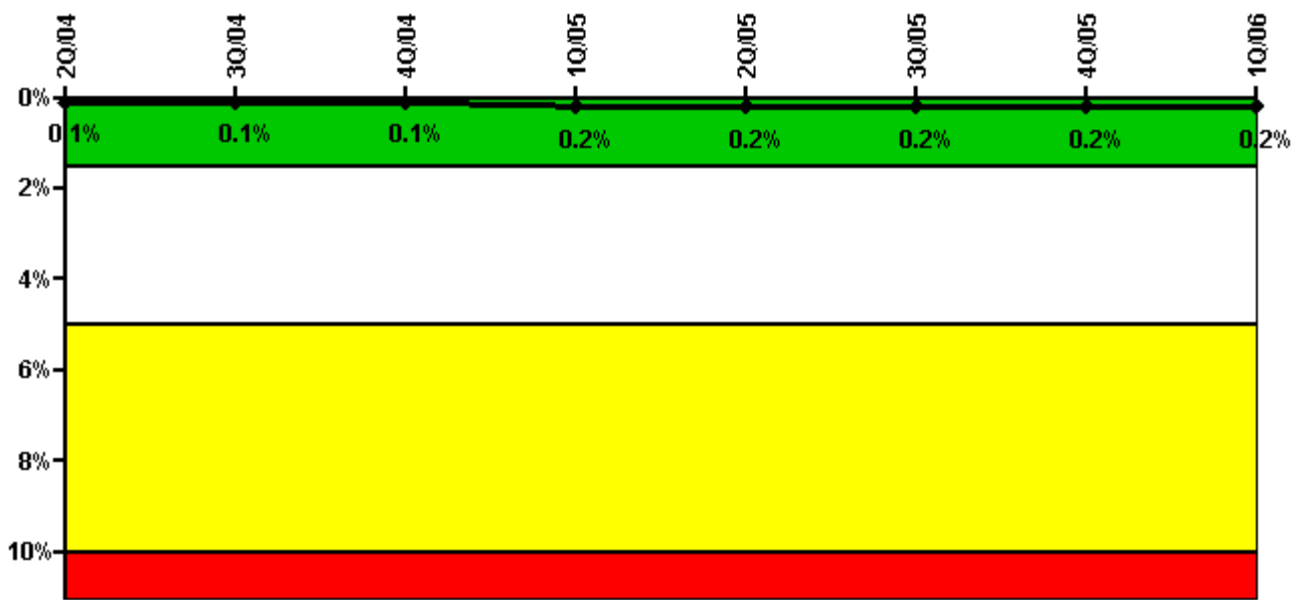
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	16.57	17.50	10.27	9.55	12.26	8.86	10.17	5.54
Unplanned unavailable hours	0	31.00	0	11.87	0	0	7.15	11.42
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	1462.22	2115.38	2183.00	2208.00	1998.37	2160.00
Train 2								
Planned unavailable hours	18.94	22.14	18.94	12.02	27.03	24.33	4.98	17.30
Unplanned unavailable hours	9.23	0	9.00	0	0	0	37.83	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1462.22	2115.38	2183.00	2208.00	1998.37	2160.00
Indicator value	2.8%	2.6%	2.1%	2.0%	1.9%	1.9%	1.4%	1.0%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



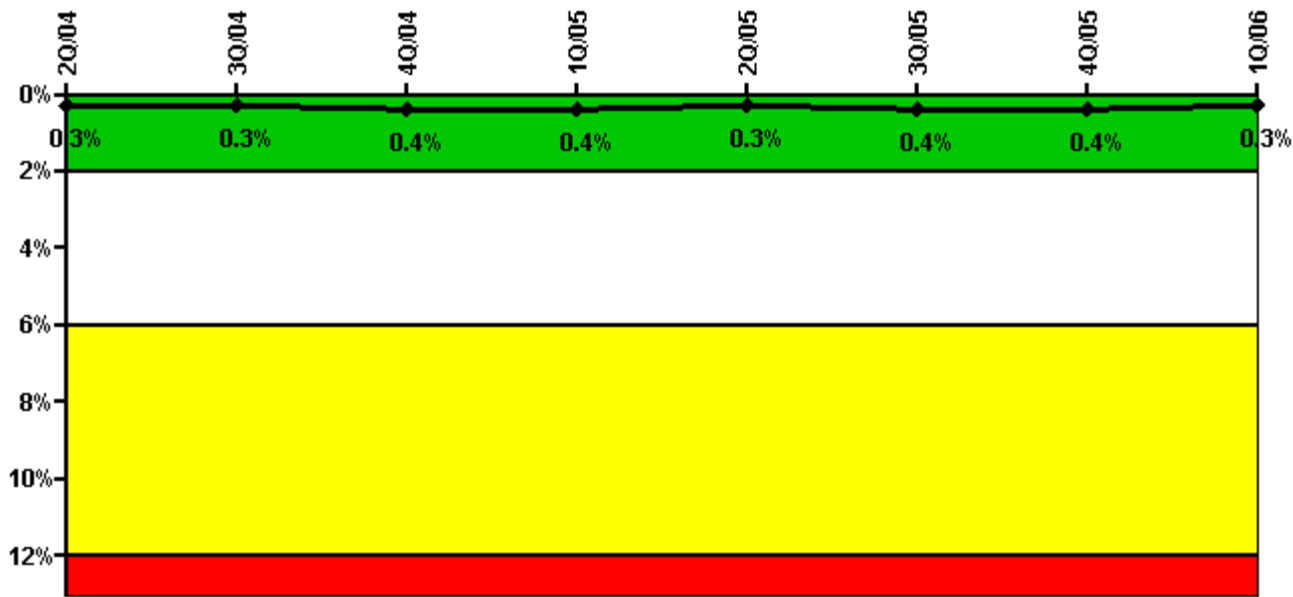
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	5.03	2.36	0	2.96	0	0	0	0.78
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1422.90	2068.50	2183.00	2208.00	1964.03	2160.00
Train 2								
Planned unavailable hours	3.02	1.25	7.30	7.07	2.42	6.75	2.41	4.63
Unplanned unavailable hours	0	0	0	0	0	0	0	0
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	1422.90	2068.50	2183.00	2208.00	1964.03	2160.00
Indicator value	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	0.60	1.18	0	0.95	0.80	26.42	0.93	9.88
Unplanned unavailable hours	0	0	0	0	3.30	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	2183.00	2208.00	1462.20	2115.40	2183.00	2208.00	1998.40	2160.00
Train 2								
Planned unavailable hours	1.35	1.58	2.85	1.10	1.22	0.98	0.88	0.70
Unplanned unavailable hours	0	0	9.98	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1462.20	2115.40	2183.00	2208.00	1998.40	2160.00
Train 3								
Planned unavailable hours	1.58	15.15	1.20	7.80	1.70	12.90	2.13	1.42
Unplanned unavailable hours	0	0	17.71	0	0	0	0	0
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	1441.60	2105.90	2183.00	2208.00	1988.80	2160.00
Indicator value	0.3%	0.3%	0.4%	0.4%	0.3%	0.4%	0.4%	0.3%

Licensee Comments: none

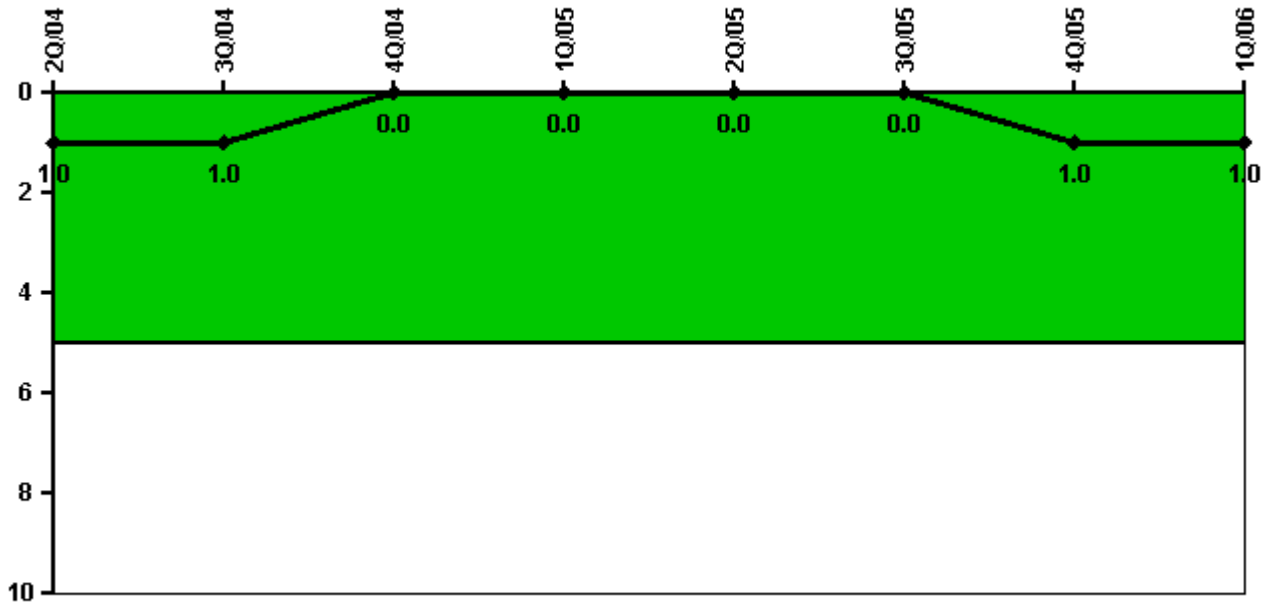
Stacked bar chart showing the distribution of the number of nodes in the network. The x-axis represents the number of nodes (20,004 to 100,006) and the y-axis represents the percentage (0% to 10%). The chart is divided into three horizontal bands: a green band at the top (0% to 2%), a yellow band in the middle (2% to 6%), and a red band at the bottom (6% to 10%). The green band is labeled with '0.2%' for each node count, indicating a constant percentage across the range.

Notes

[illegible]

Licensee Comments: none

Safety System Functional Failures (PWR)



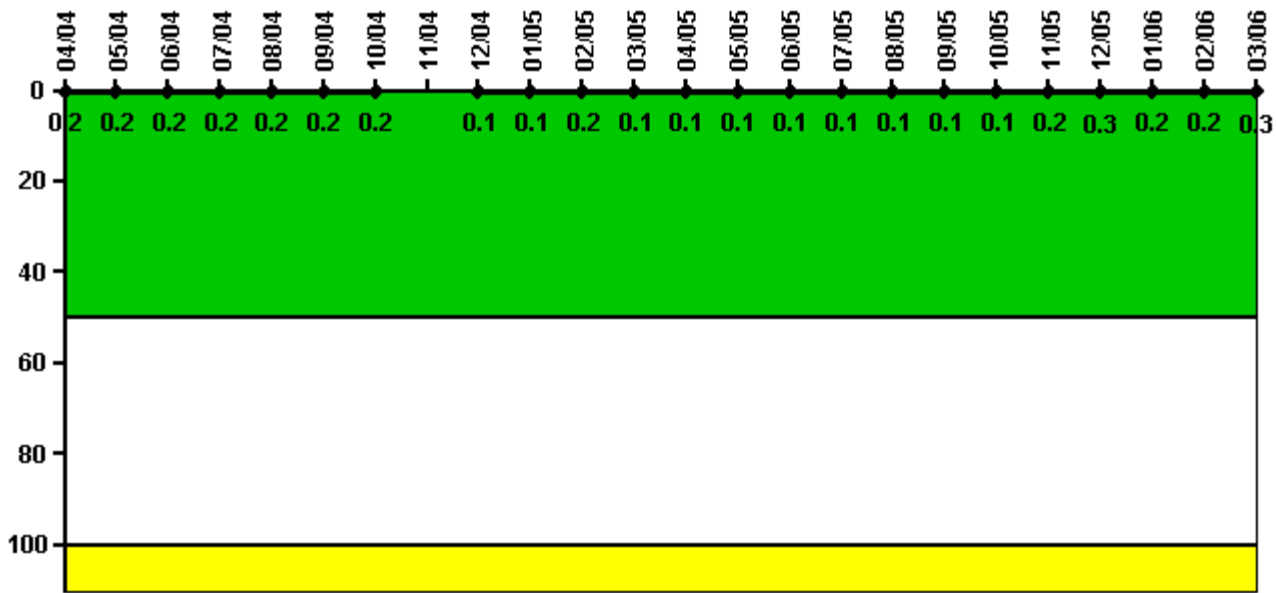
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

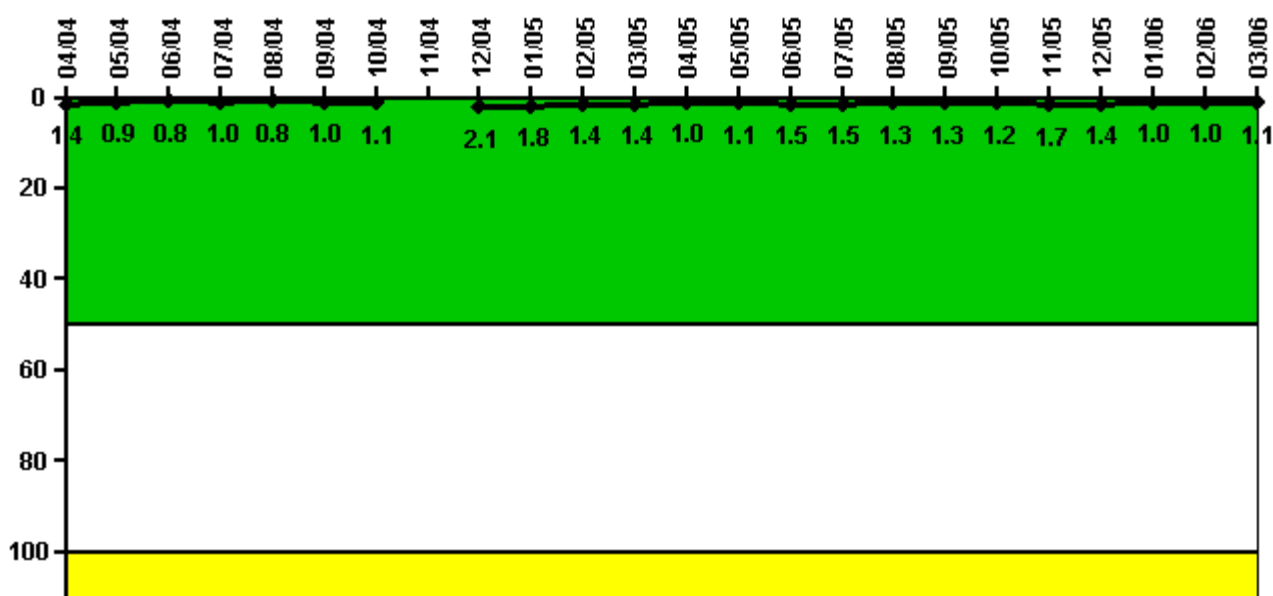
Notes

Reactor Coolant System Activity	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	0.001720	0.001700	0.001710	0.001780	0.002040	0.001980	0.002010	N/A	0.000968	0.001300	0.001520	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	N/A	0.1	0.1	0.2	0.1

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	0.001160	0.001190	0.001350	0.001460	0.001350	0.001480	0.001460	0.001630	0.003080	0.001720	0.001750	0.002760
Technical specification limit	1.0	1.0	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	0.2	0.3	0.2	0.2	0.3

Licensee Comments: none

Reactor Coolant System Leakage



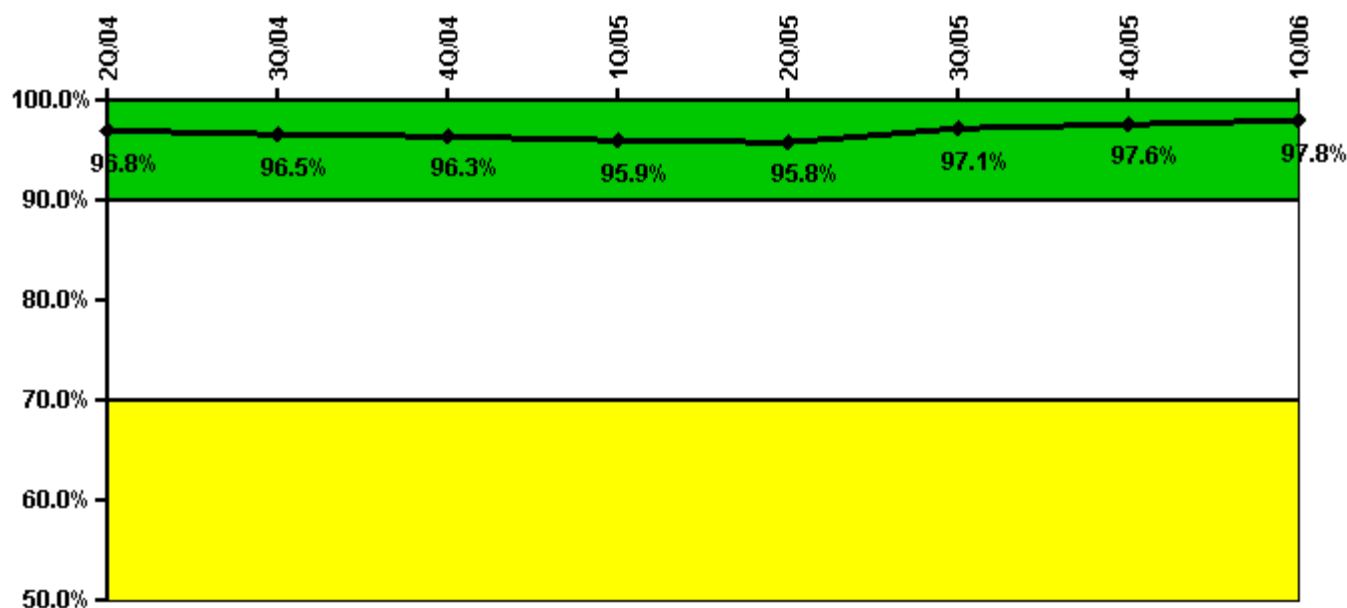
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.140	0.090	0.080	0.100	0.080	0.100	0.110	N/A	0.210	0.180	0.140	0.140
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.4	0.9	0.8	1.0	0.8	1.0	1.1	N/A	2.1	1.8	1.4	1.4
Reactor Coolant System Leakage	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum leakage	0.100	0.110	0.150	0.150	0.130	0.130	0.120	0.170	0.140	0.100	0.100	0.110
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.1	1.5	1.5	1.3	1.3	1.2	1.7	1.4	1.0	1.0	1.1

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

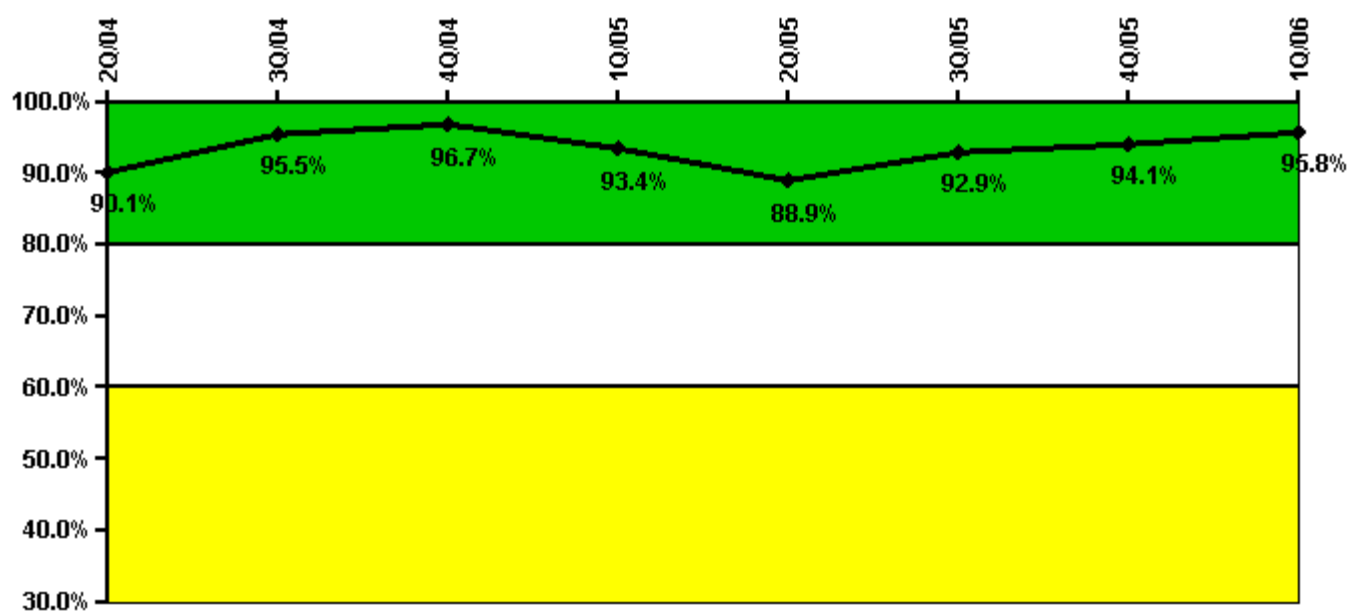
Notes

Drill/Exercise Performance	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful opportunities	12.0	32.0	8.0	19.0	20.0	29.0	27.0	34.0
Total opportunities	13.0	34.0	8.0	20.0	20.0	29.0	27.0	34.0
Indicator value	96.8%	96.5%	96.3%	95.9%	95.8%	97.1%	97.6%	97.8%

Licensee Comments:

1Q/06: One Drill/Exercise opportunity for February is not included in this report and is under review by the NRC as referenced in NRC Report 2006-008.

ERO Drill Participation



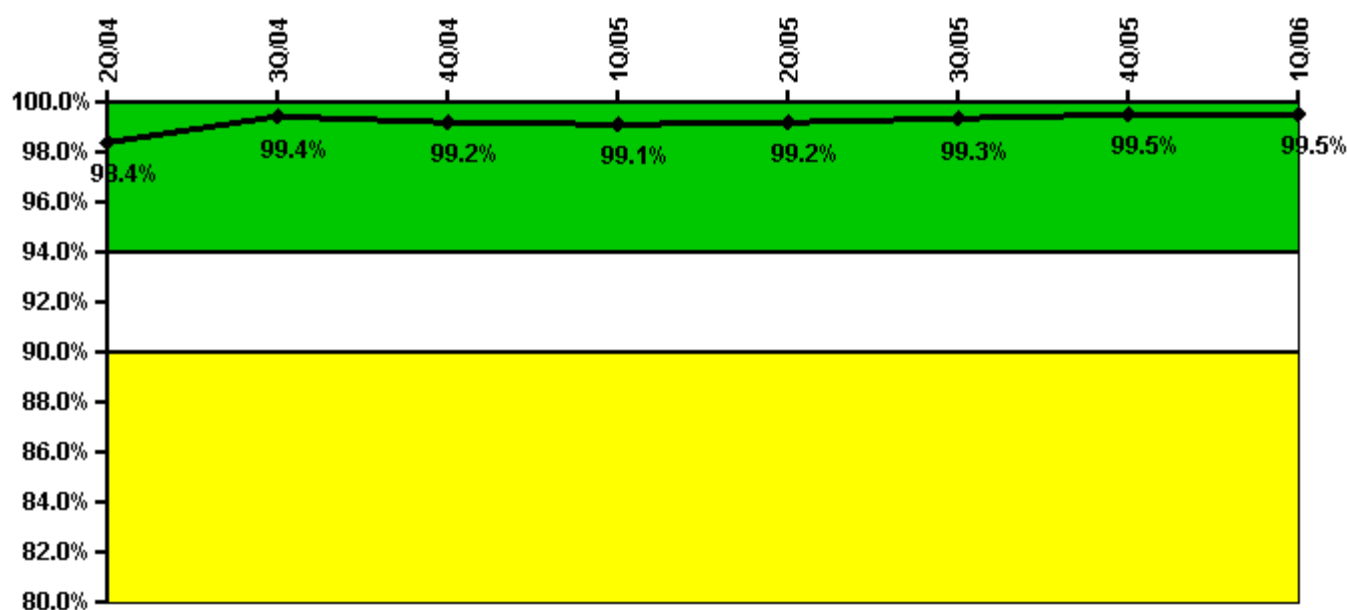
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Participating Key personnel	145.0	150.0	148.0	142.0	136.0	144.0	144.0	137.0
Total Key personnel	161.0	157.0	153.0	152.0	153.0	155.0	153.0	143.0
Indicator value	90.1%	95.5%	96.7%	93.4%	88.9%	92.9%	94.1%	95.8%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

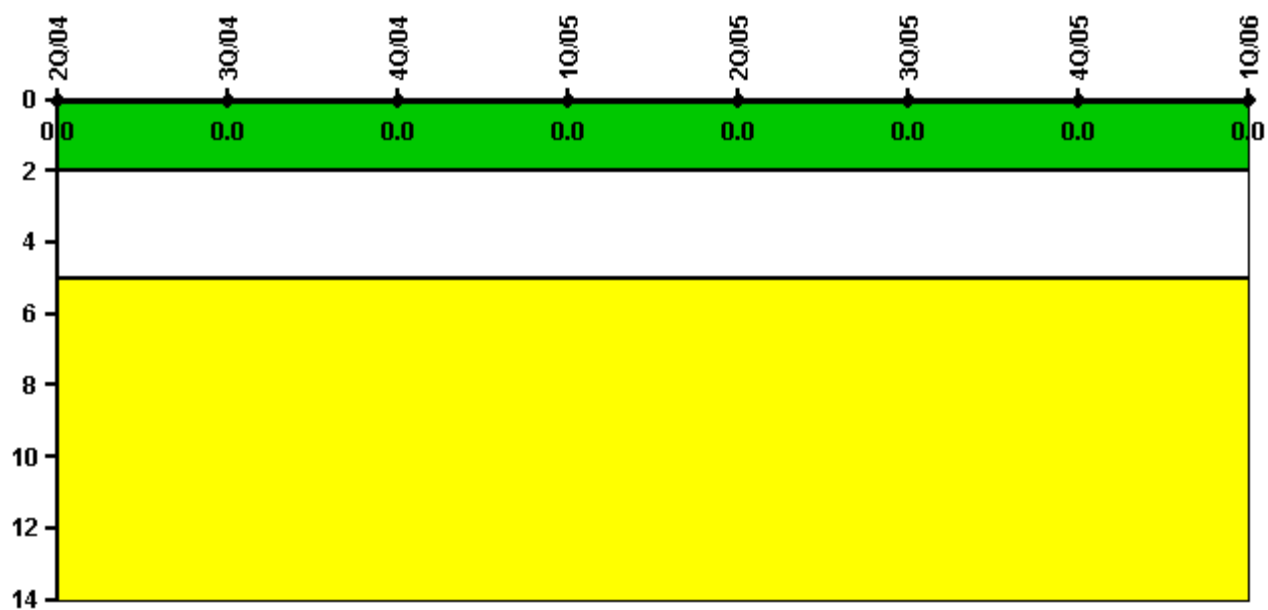
Notes

Alert & Notification System	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful siren-tests	533	532	461	534	475	541	472	542
Total sirens-tests	536	536	469	537	476	544	476	544
Indicator value	98.4%	99.4%	99.2%	99.1%	99.2%	99.3%	99.5%	99.5%

Licensee Comments:

1Q/06: During review of 4th quarter 2005 data, it was discovered that data for one siren was inaccurate. Data was corrected with no change in color.

Occupational Exposure Control Effectiveness

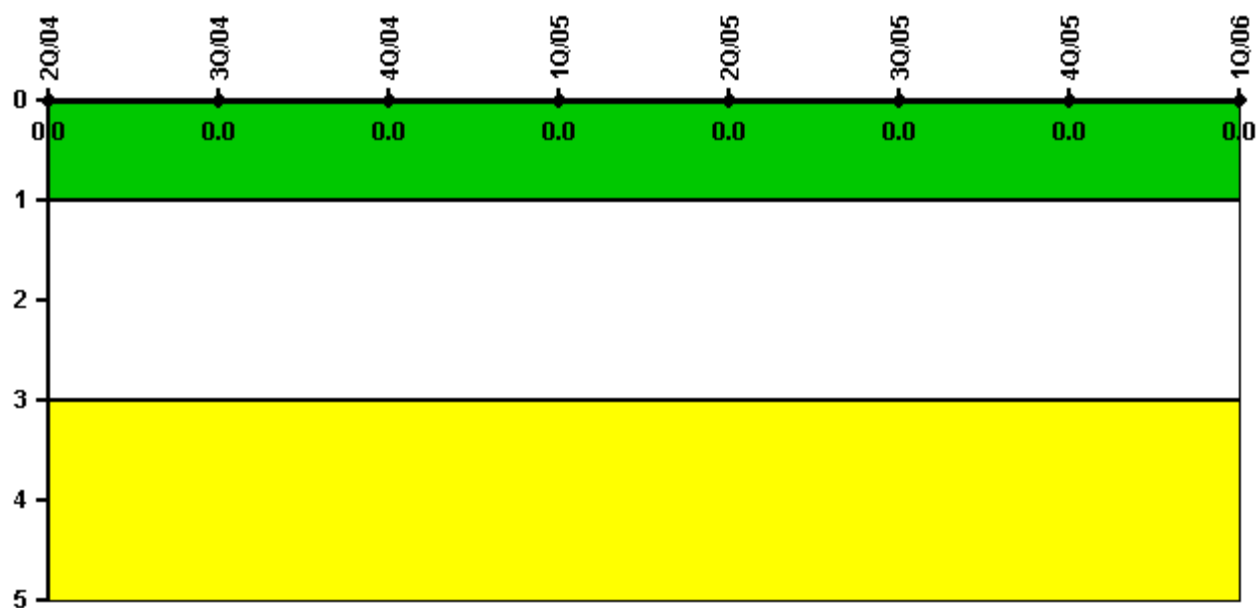


Thresholds: White > 2.0 Yellow > 5.0

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.

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

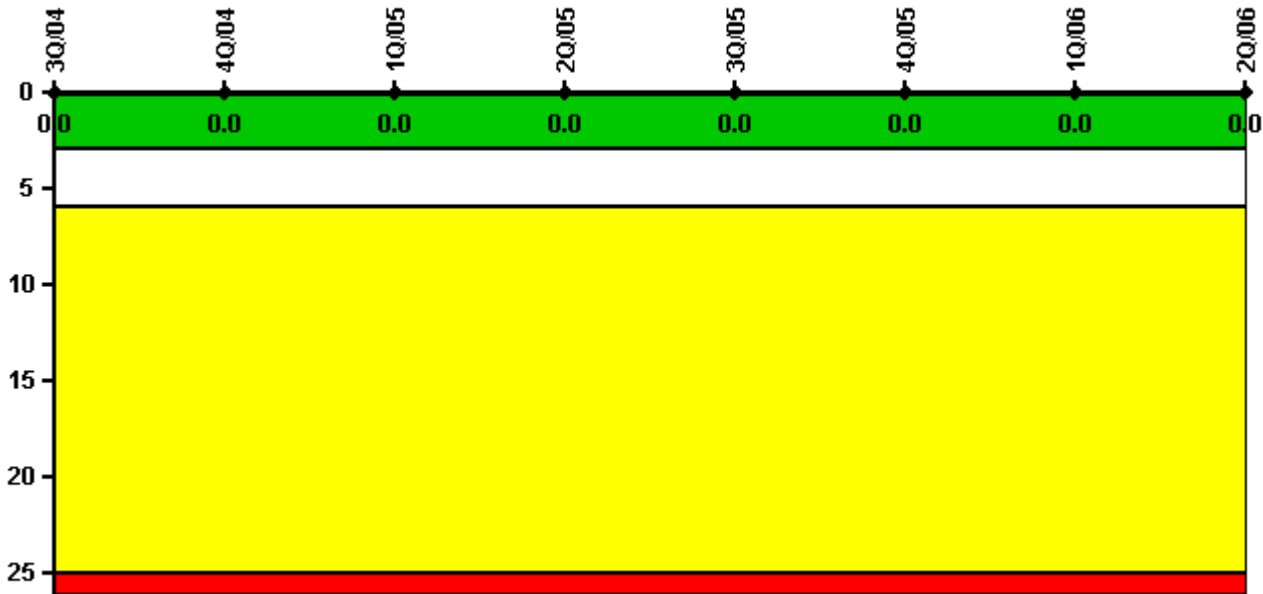
Last Modified: May 5, 2006

Surry 1

2Q/2006 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



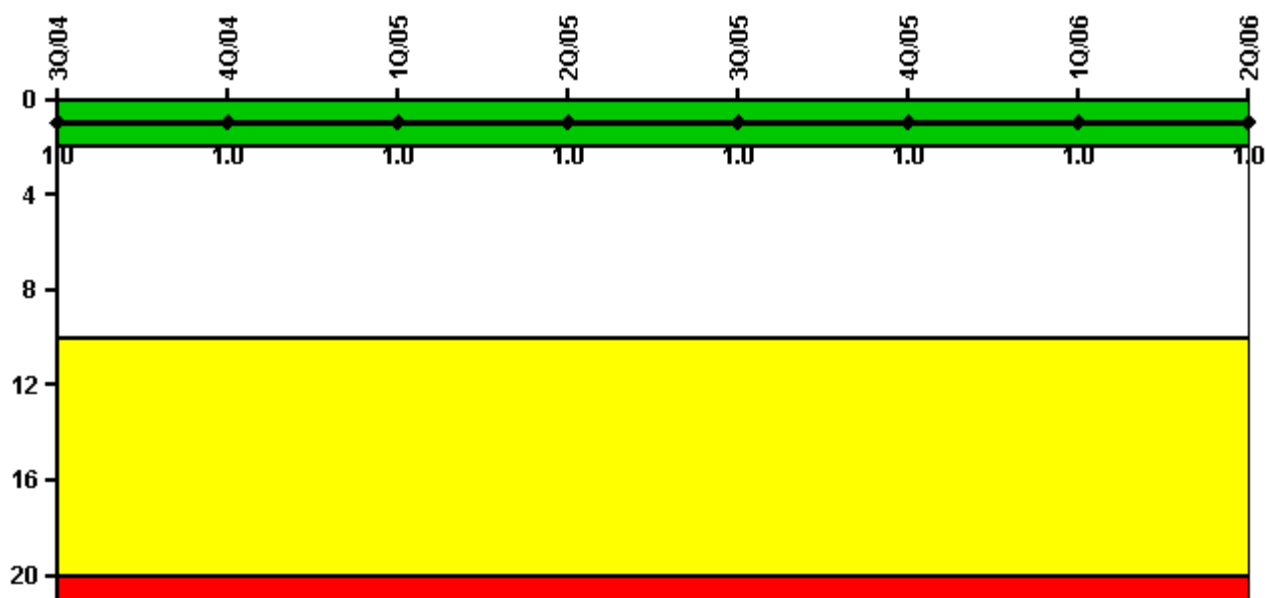
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	1422.9	2068.5	2183.0	2208.0	1964.0	2160.0	1413.5
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



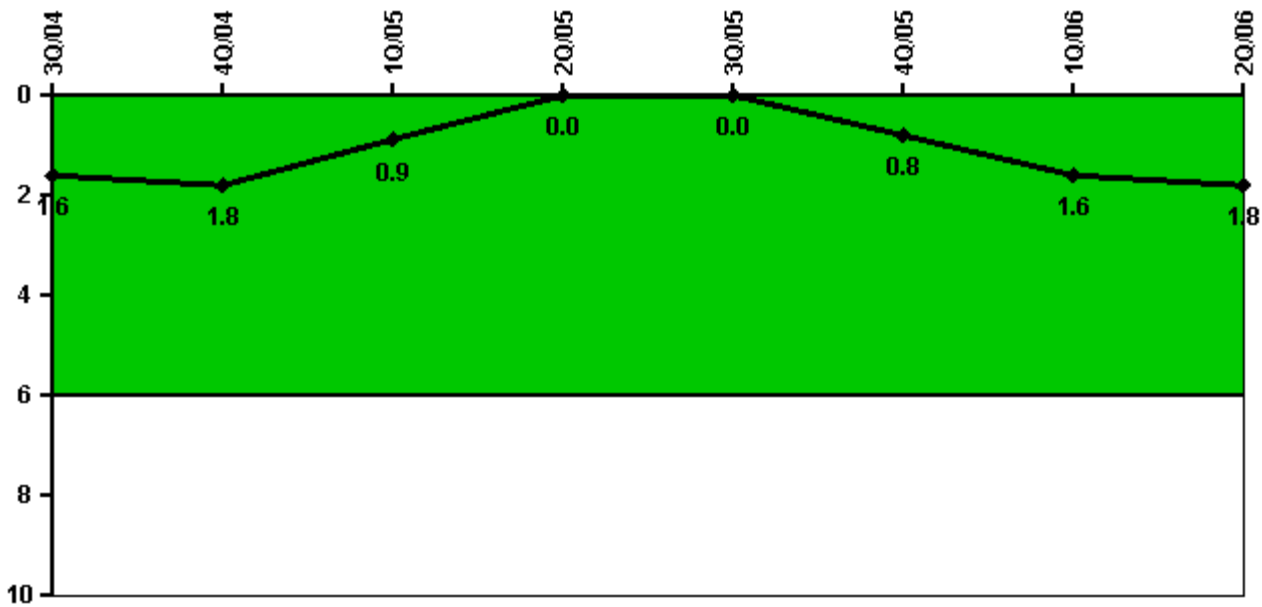
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



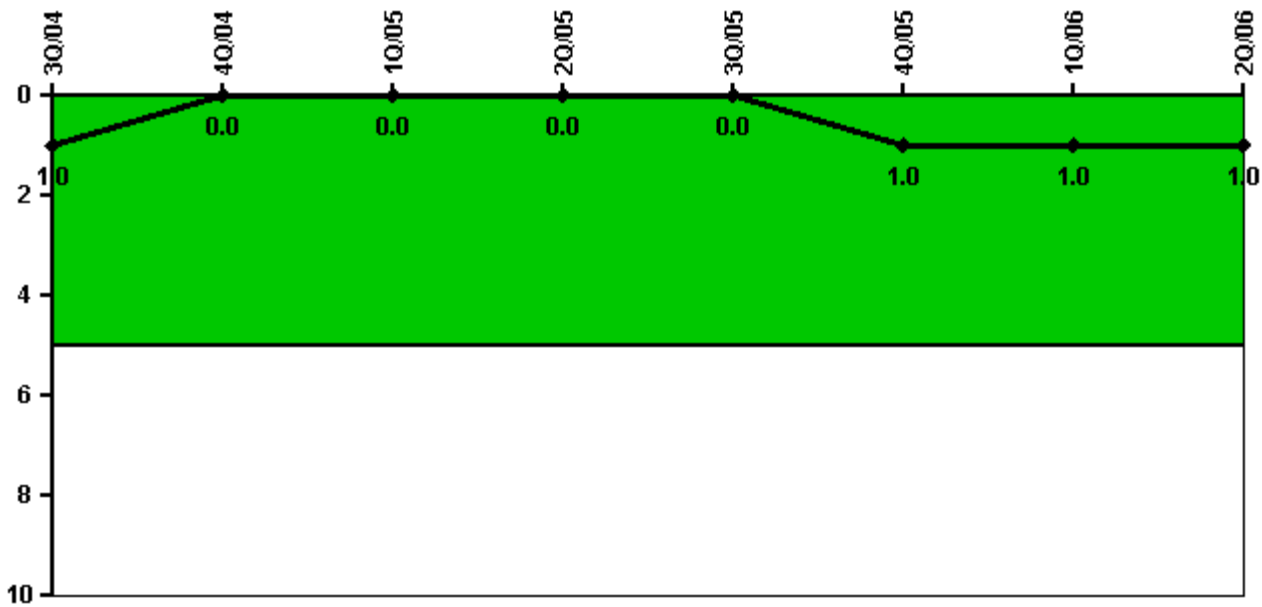
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Unplanned power changes	0	0	0	0	0	1.0	1.0	0
Critical hours	2208.0	1422.9	2068.5	2183.0	2208.0	1964.0	2160.0	1413.5
Indicator value	1.6	1.8	0.9	0	0	0.8	1.6	1.8

Licensee Comments: none

Safety System Functional Failures (PWR)



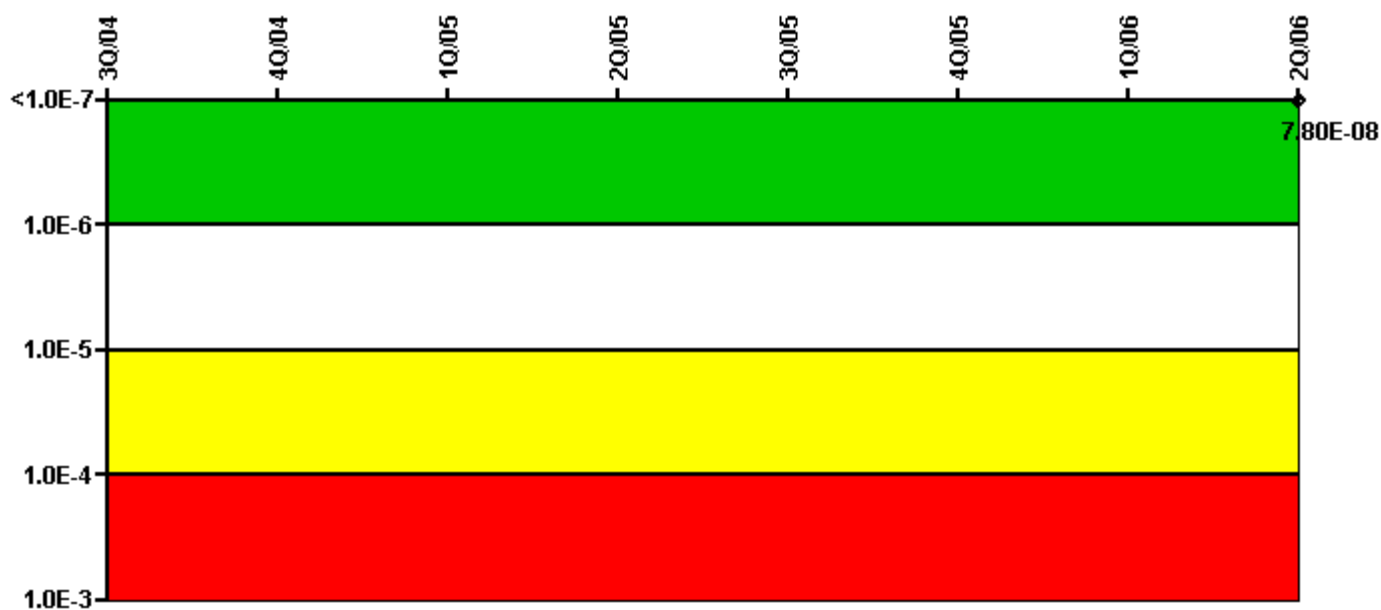
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Safety System Functional Failures	0	0	0	0	0	1	0	0
Indicator value	1	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 $> 1.00E-4$

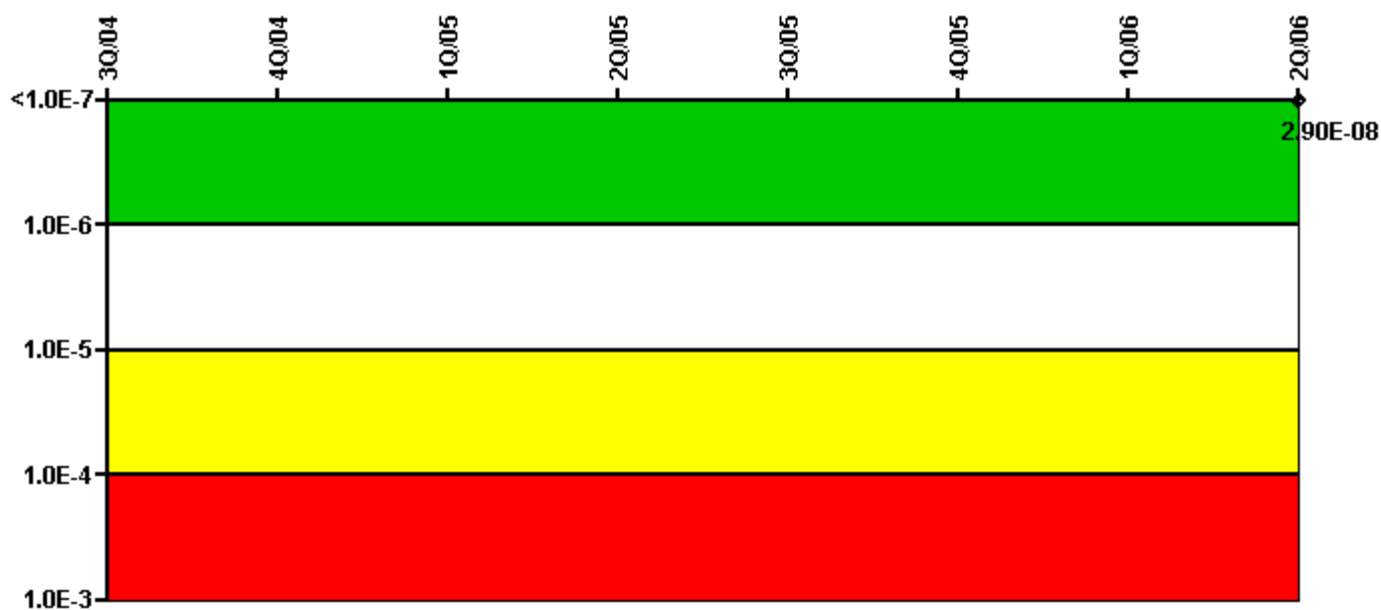
Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (Δ CDF)								5.00E-08
URI (Δ CDF)								2.80E-08
PLE								NO
Indicator value								7.80E-08

Licensee Comments:

2Q/06: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



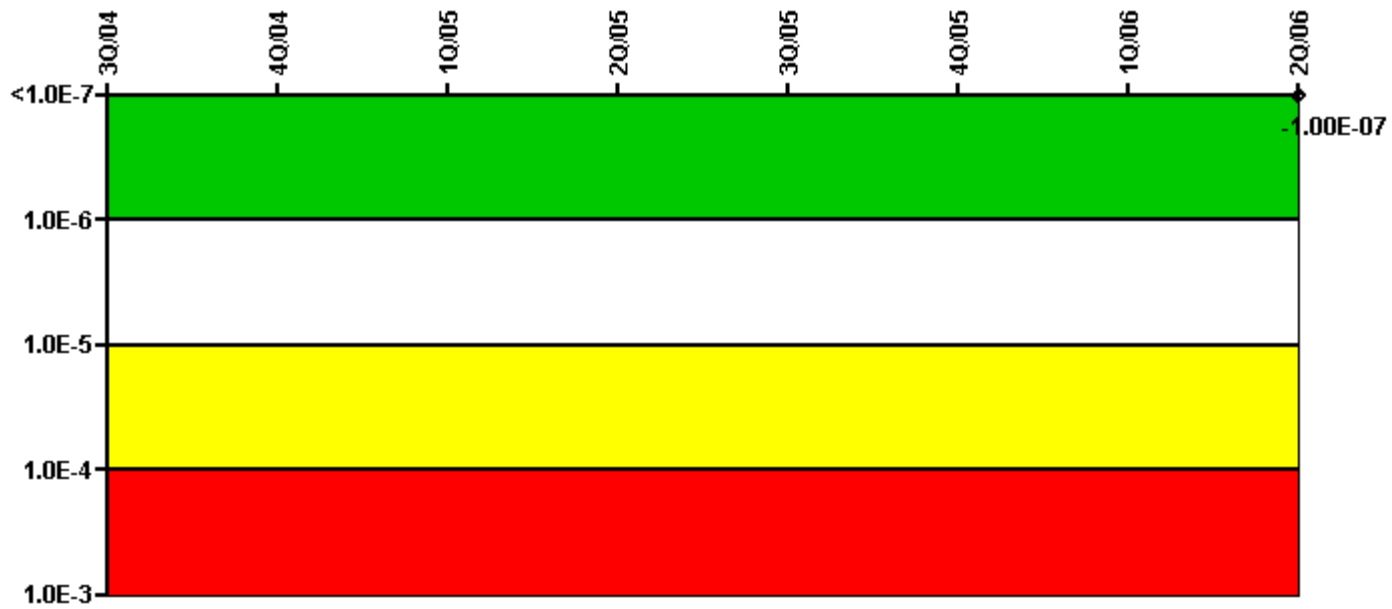
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								-1.00E-09
URI (ΔCDF)								3.00E-08
PLE								NO
Indicator value								2.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



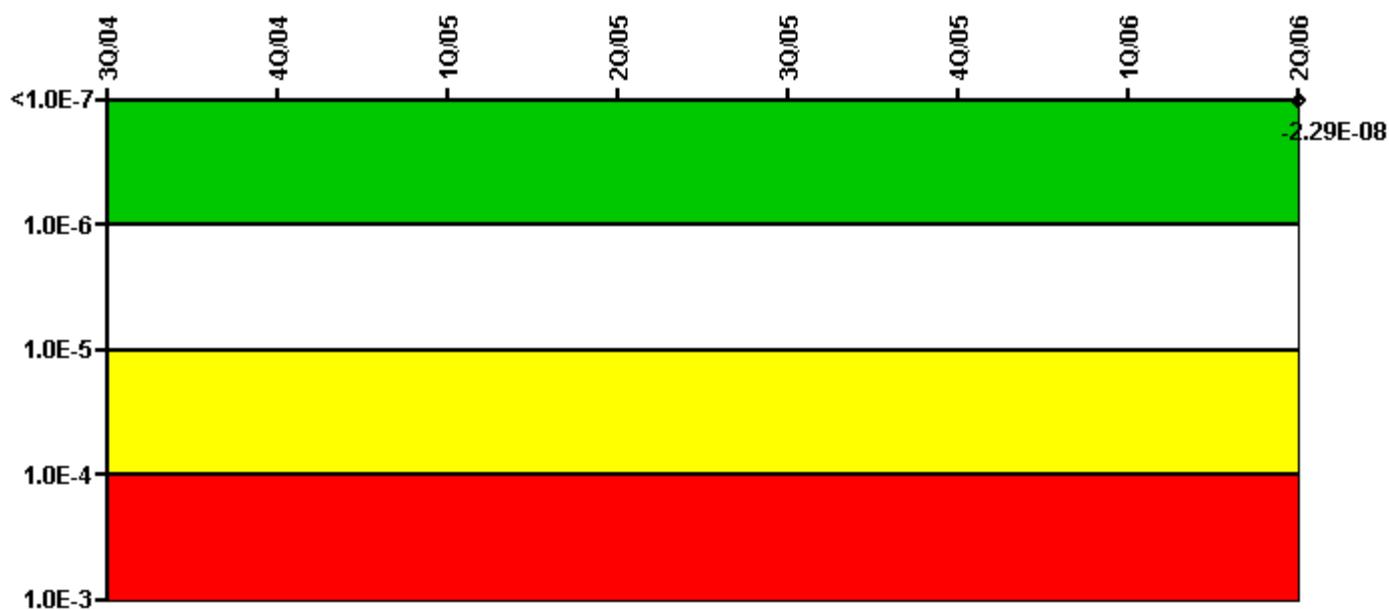
Thresholds: White $> 1.00E-6$ Yellow $> 1.00E-5$ Red $> 1.00E-4$

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (Δ CDF)								9.80E-09
URI (Δ CDF)								-1.10E-07
PLE								NO
Indicator value								-1.00E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



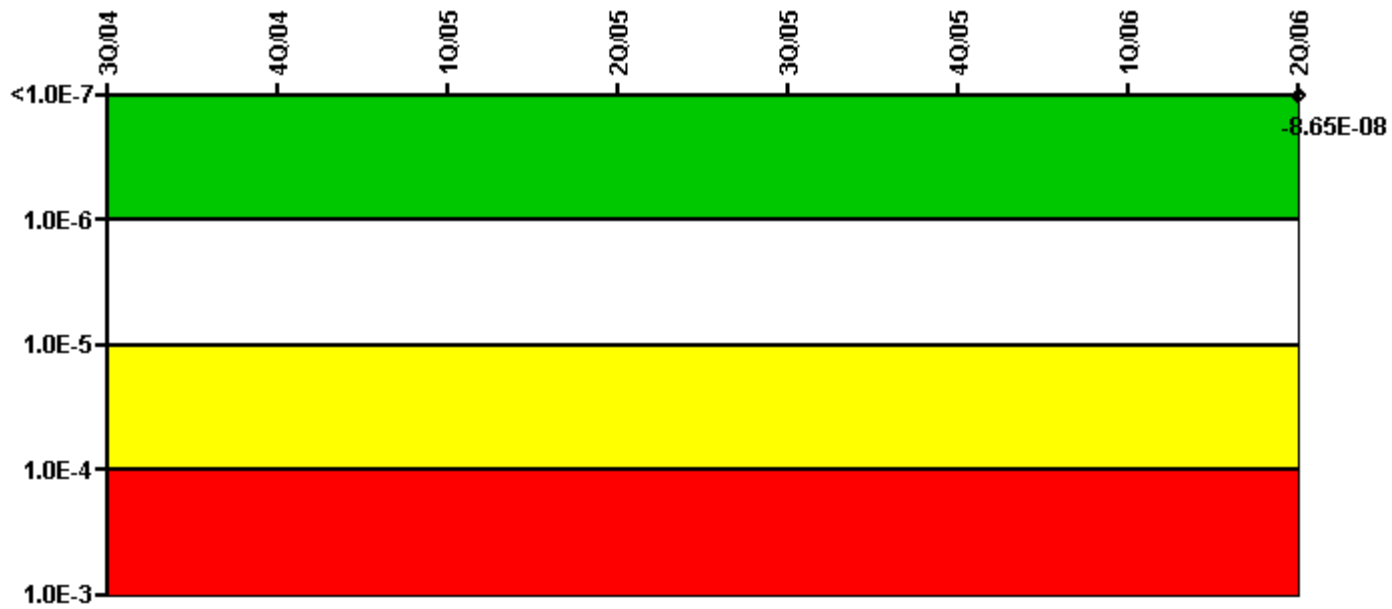
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								-4.90E-09
URI (ΔCDF)								-1.80E-08
PLE								NO
Indicator value								-2.29E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



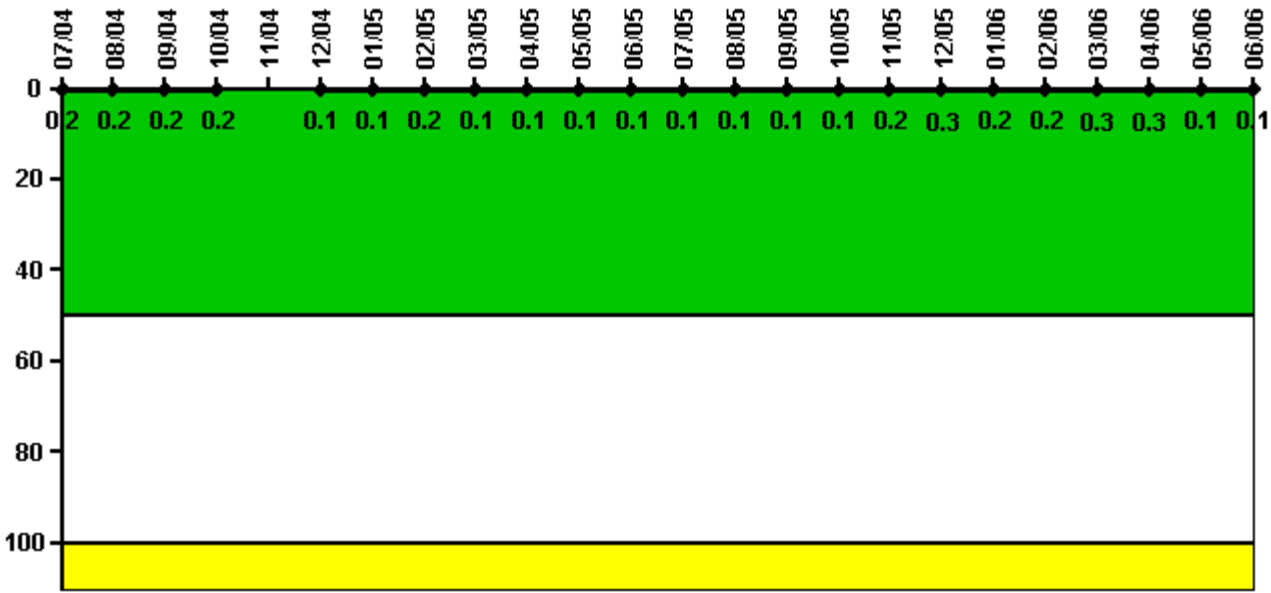
Thresholds: White $> 1.00E-6$ Yellow $> 1.00E-5$ Red $> 1.00E-4$

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (Δ CDF)								4.60E-10
URI (Δ CDF)								-8.70E-08
PLE								NO
Indicator value								-8.65E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

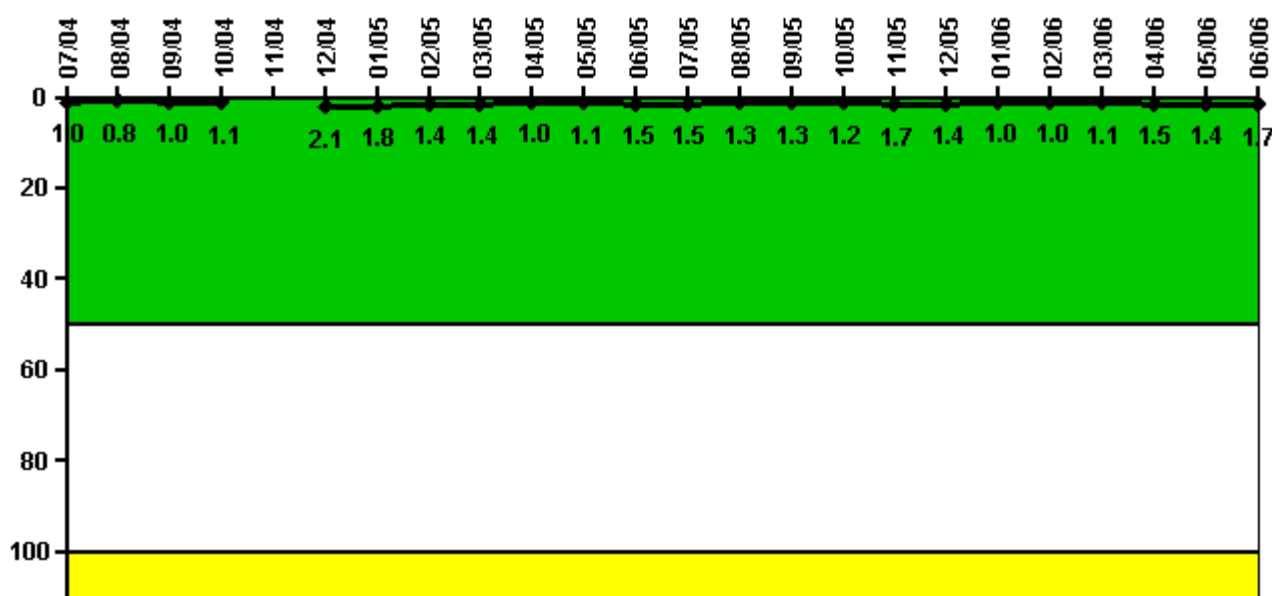
Notes

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	0.001780	0.002040	0.001980	0.002010	N/A	0.000968	0.001300	0.001520	0.001200	0.001160	0.001190	0.001350
Technical specification limit	1.0	1.0	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	N/A	0.1	0.1	0.2	0.1	0.1	0.1	0.1

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	0.001460	0.001350	0.001480	0.001460	0.001630	0.003080	0.001720	0.001750	0.002760	0.003370	0.000813	0.001140
Technical specification limit	1.0	1.0	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	0.2	0.3	0.2	0.2	0.3	0.3	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



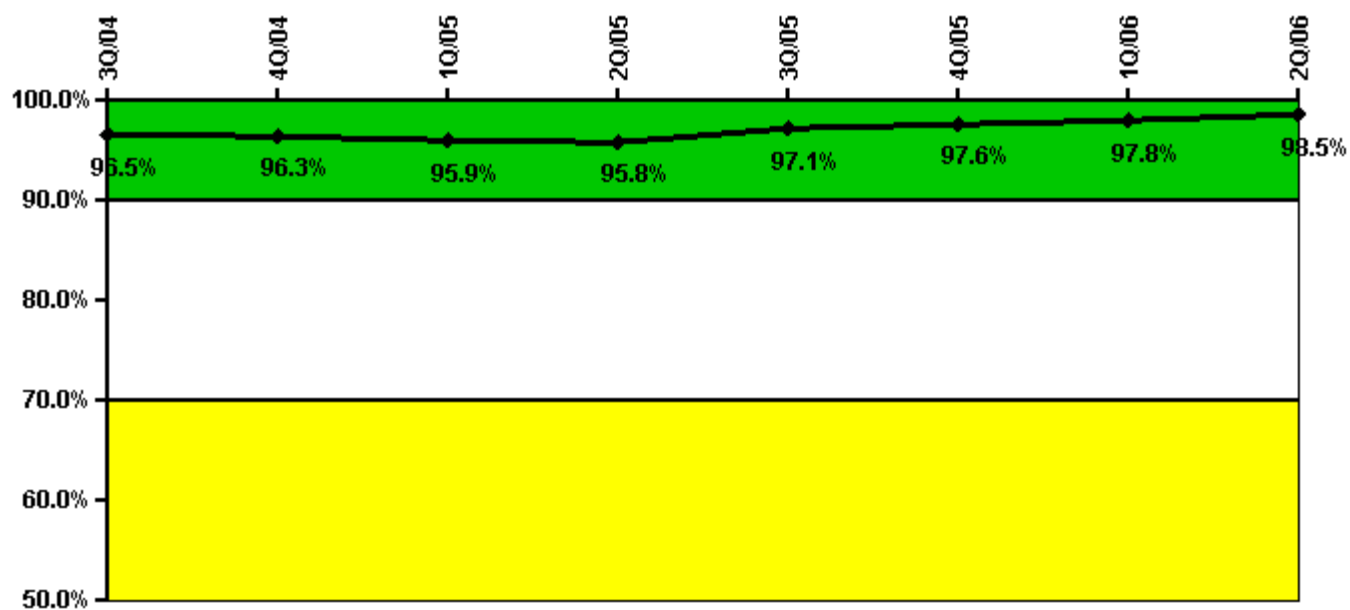
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.100	0.080	0.100	0.110	N/A	0.210	0.180	0.140	0.140	0.100	0.110	0.150
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	0.8	1.0	1.1	N/A	2.1	1.8	1.4	1.4	1.0	1.1	1.5
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	0.150	0.130	0.130	0.120	0.170	0.140	0.100	0.100	0.110	0.150	0.140	0.170
Technical specification limit	10.0	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	1.3	1.3	1.2	1.7	1.4	1.0	1.0	1.1	1.5	1.4	1.7

Licensee Comments: none

Drill/Exercise Performance



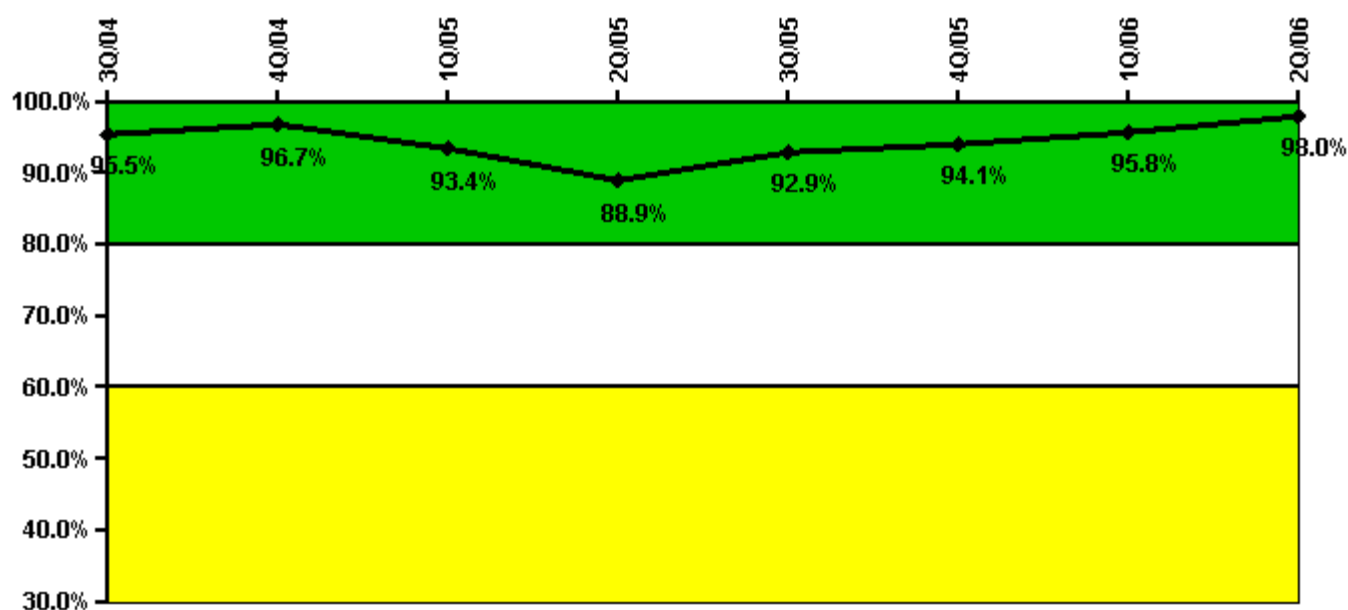
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful opportunities	32.0	8.0	19.0	20.0	29.0	27.0	34.0	23.0
Total opportunities	34.0	8.0	20.0	20.0	29.0	27.0	34.0	23.0
Indicator value	96.5%	96.3%	95.9%	95.8%	97.1%	97.6%	97.8%	98.5%

Licensee Comments: none

ERO Drill Participation



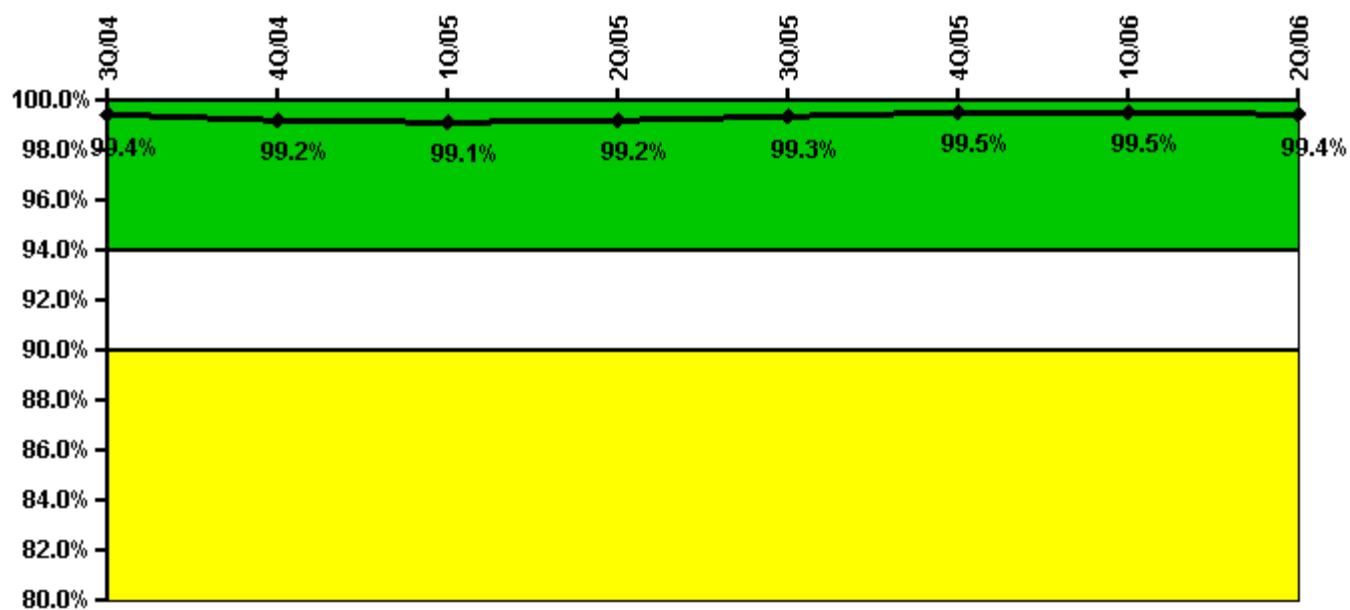
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Participating Key personnel	150.0	148.0	142.0	136.0	144.0	144.0	137.0	145.0
Total Key personnel	157.0	153.0	152.0	153.0	155.0	153.0	143.0	148.0
Indicator value	95.5%	96.7%	93.4%	88.9%	92.9%	94.1%	95.8%	98.0%

Licensee Comments: none

Alert & Notification System



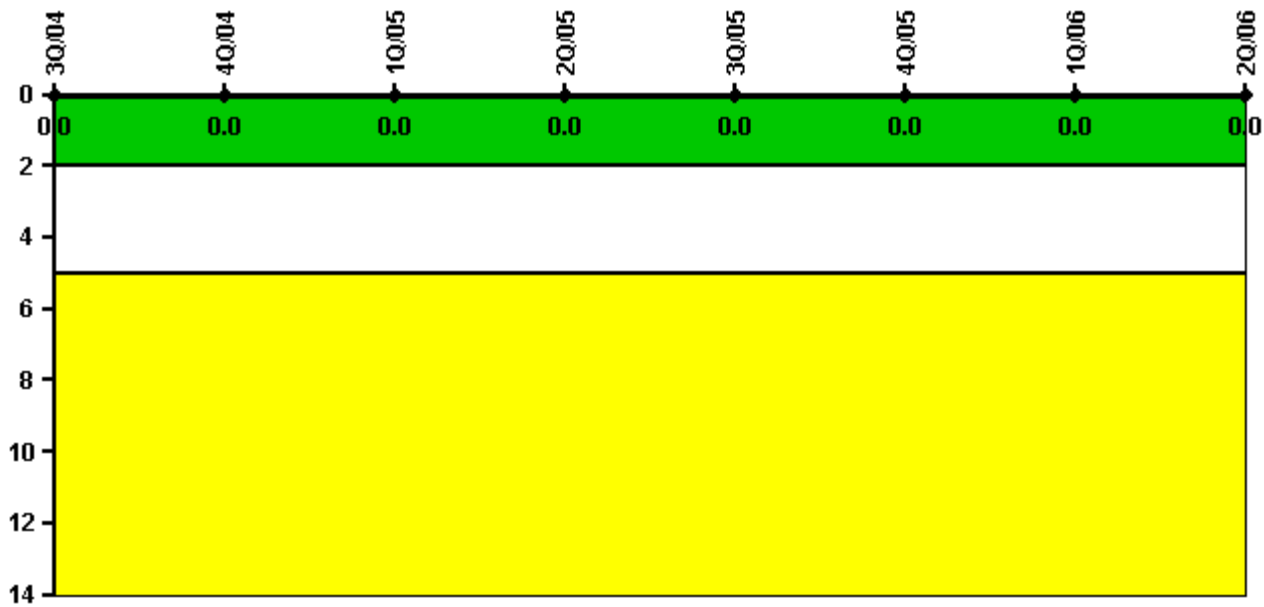
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful siren-tests	532	461	534	475	541	472	542	473
Total sirens-tests	536	469	537	476	544	476	544	476
Indicator value	99.4%	99.2%	99.1%	99.2%	99.3%	99.5%	99.5%	99.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness

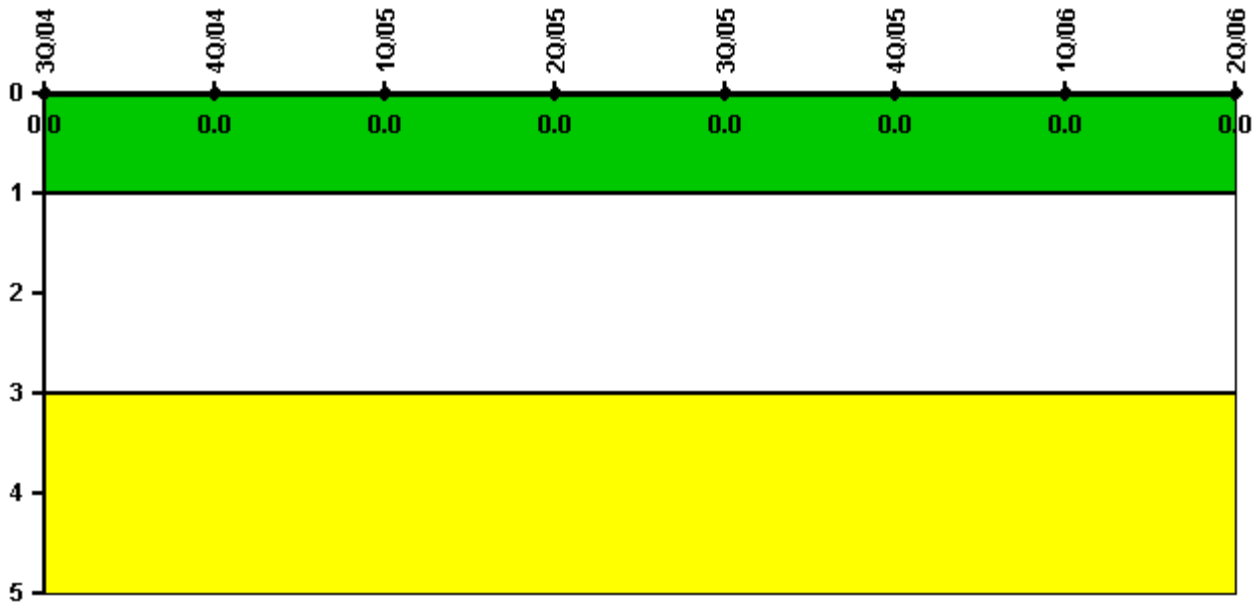


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

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

Last Modified: August 2, 2006

Surry 1

3Q/2006 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



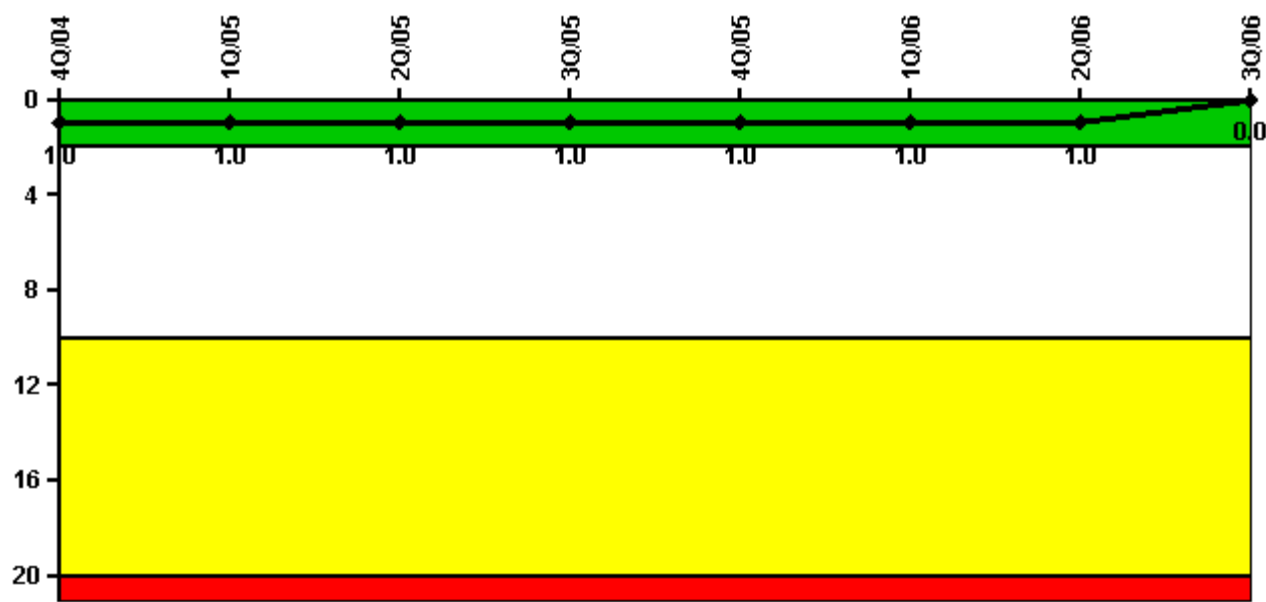
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1422.9	2068.5	2183.0	2208.0	1964.0	2160.0	1413.5	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



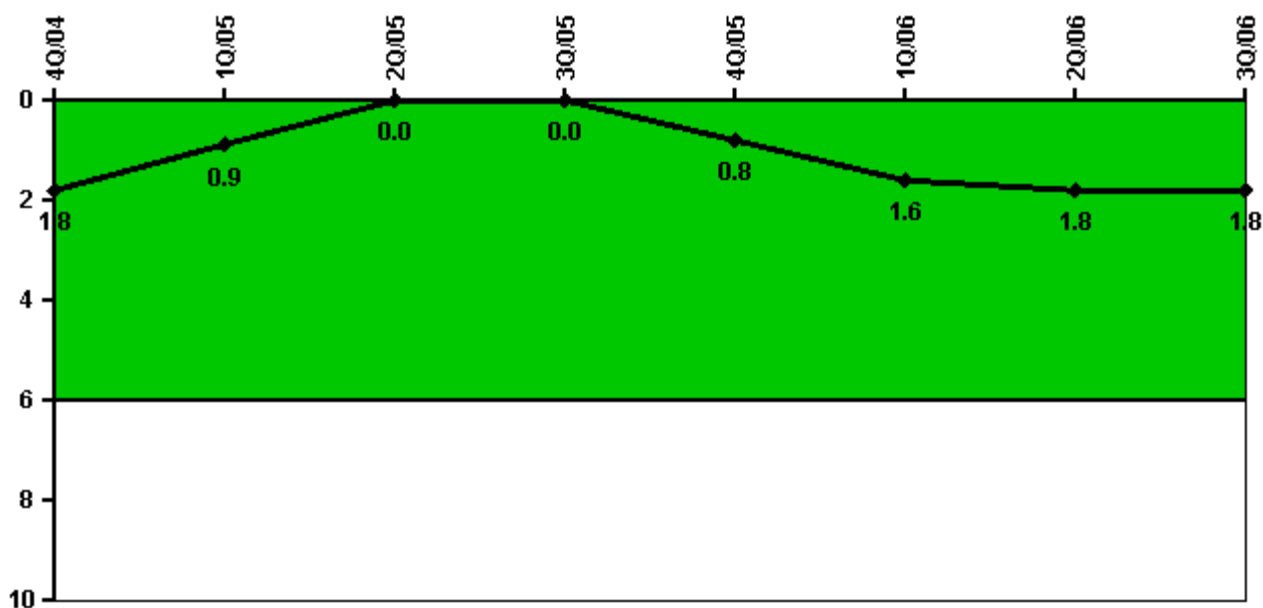
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



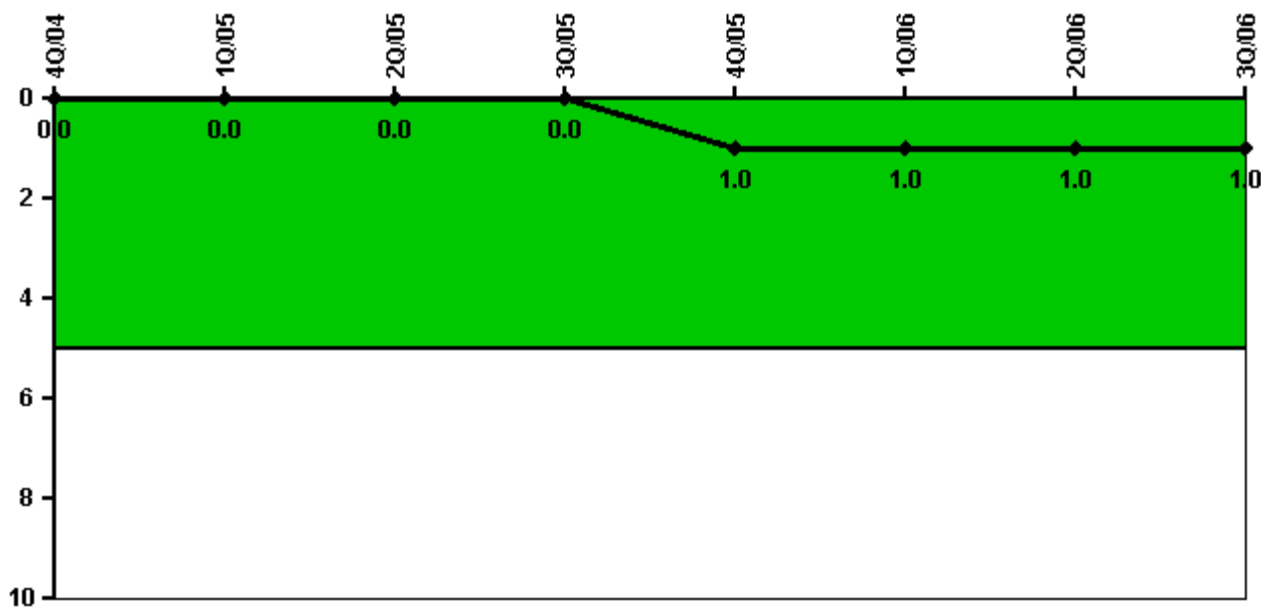
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned power changes	0	0	0	0	1.0	1.0	0	0
Critical hours	1422.9	2068.5	2183.0	2208.0	1964.0	2160.0	1413.5	2208.0
Indicator value	1.8	0.9	0	0	0.8	1.6	1.8	1.8

Licensee Comments: none

Safety System Functional Failures (PWR)



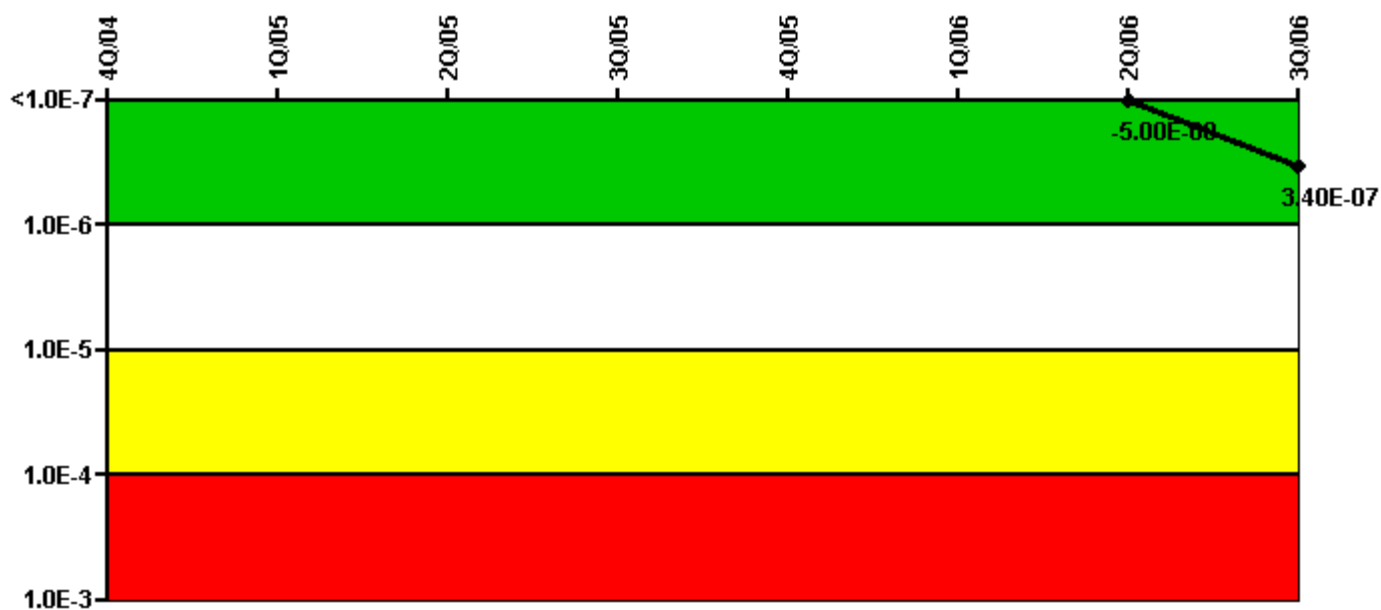
Thresholds: White > 5.0

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	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 $> 1.00E-4$

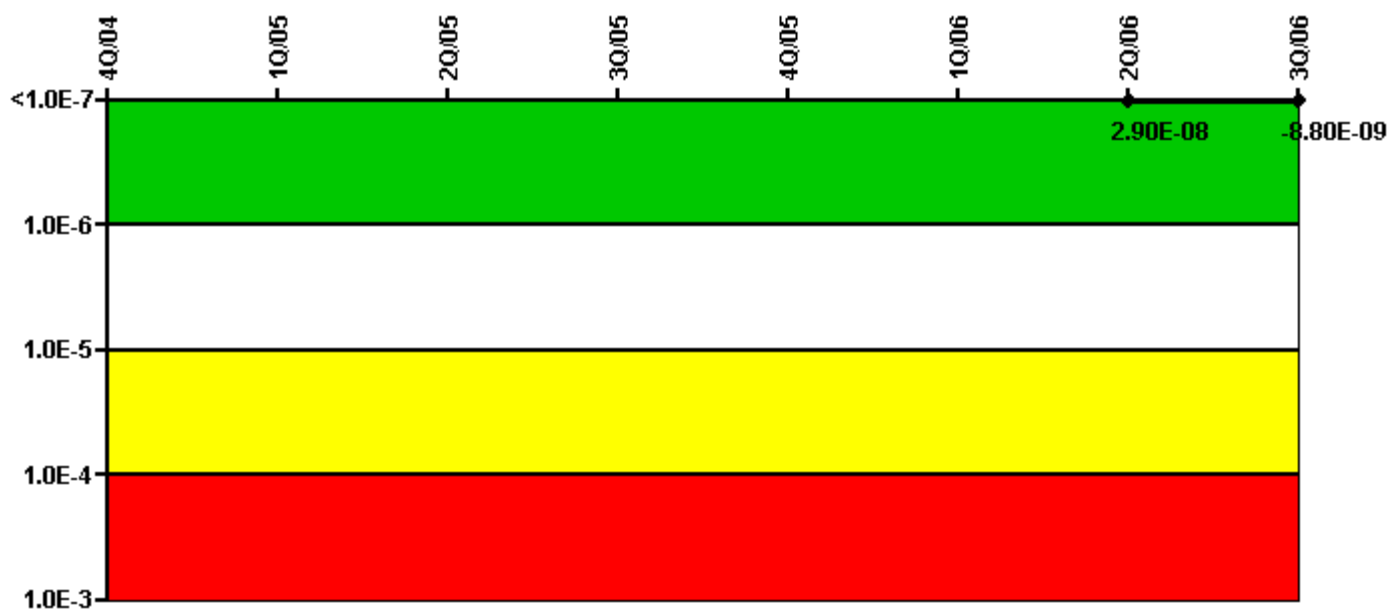
Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (Δ CDF)							5.00E-08	6.00E-08
URI (Δ CDF)							-1.00E-07	2.80E-07
PLE							NO	NO
Indicator value							-5.00E-08	3.40E-07

Licensee Comments:

3Q/06: A self-assessment revealed some historical data inaccuracies. Data was corrected with no change in color.

Mitigating Systems Performance Index, High Pressure Injection System



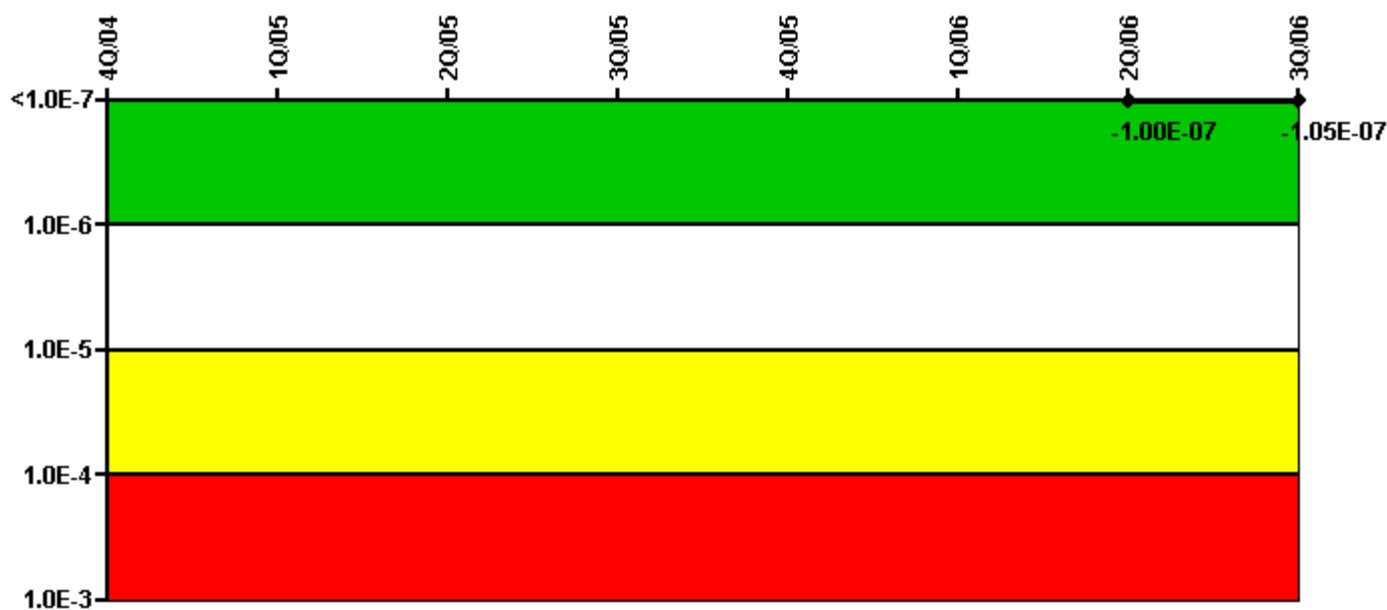
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							-1.00E-09	-2.30E-09
URI (ΔCDF)							3.00E-08	-6.50E-09
PLE							NO	NO
Indicator value							2.90E-08	-8.80E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



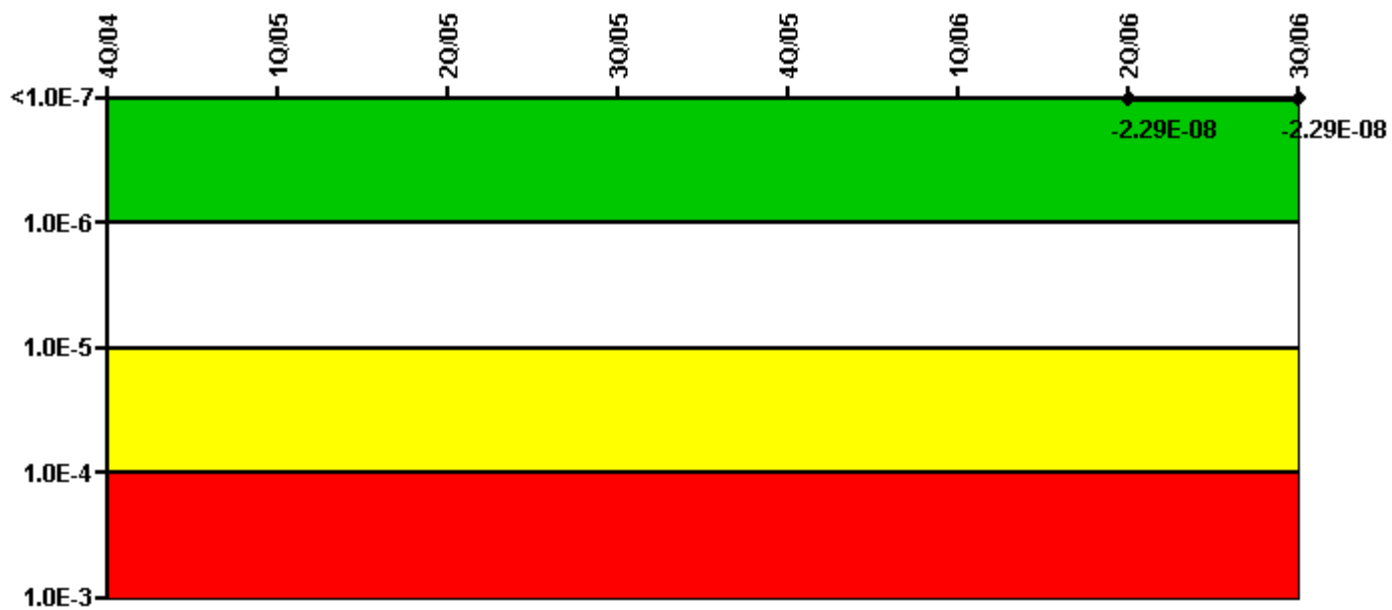
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							9.80E-09	5.00E-09
URI (ΔCDF)							-1.10E-07	-1.10E-07
PLE							NO	NO
Indicator value							-1.00E-07	-1.05E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



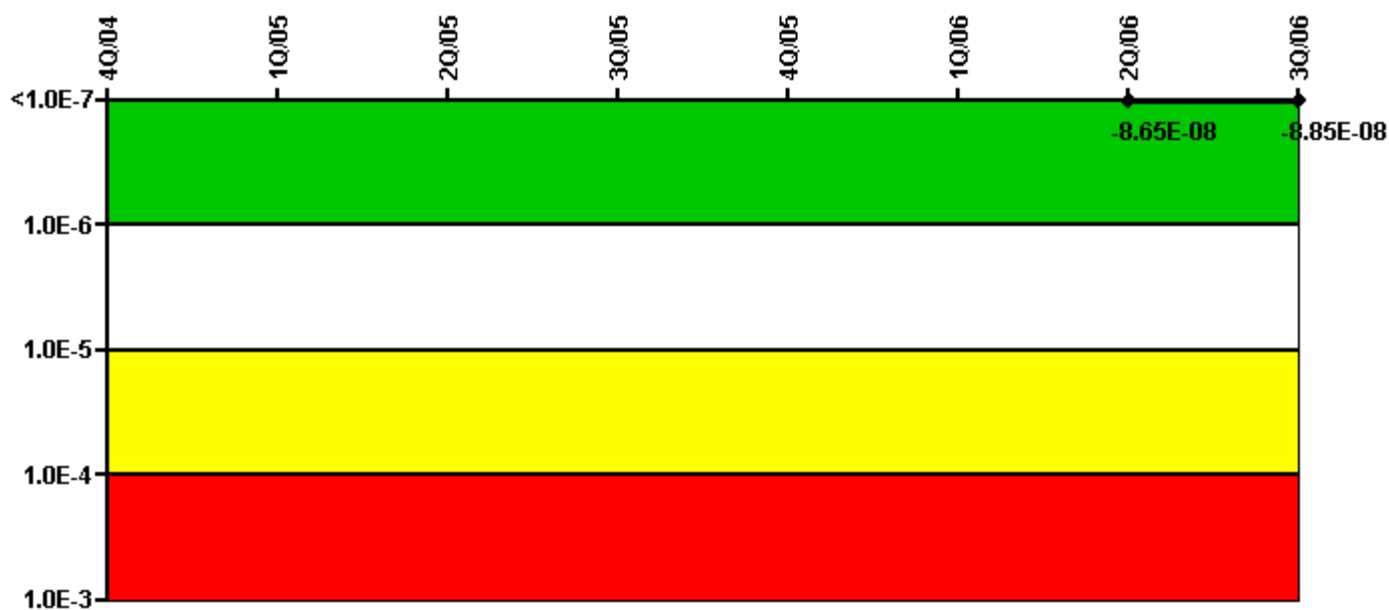
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (Δ CDF)							-4.90E-09	-4.90E-09
URI (Δ CDF)							-1.80E-08	-1.80E-08
PLE							NO	NO
Indicator value							-2.29E-08	-2.29E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



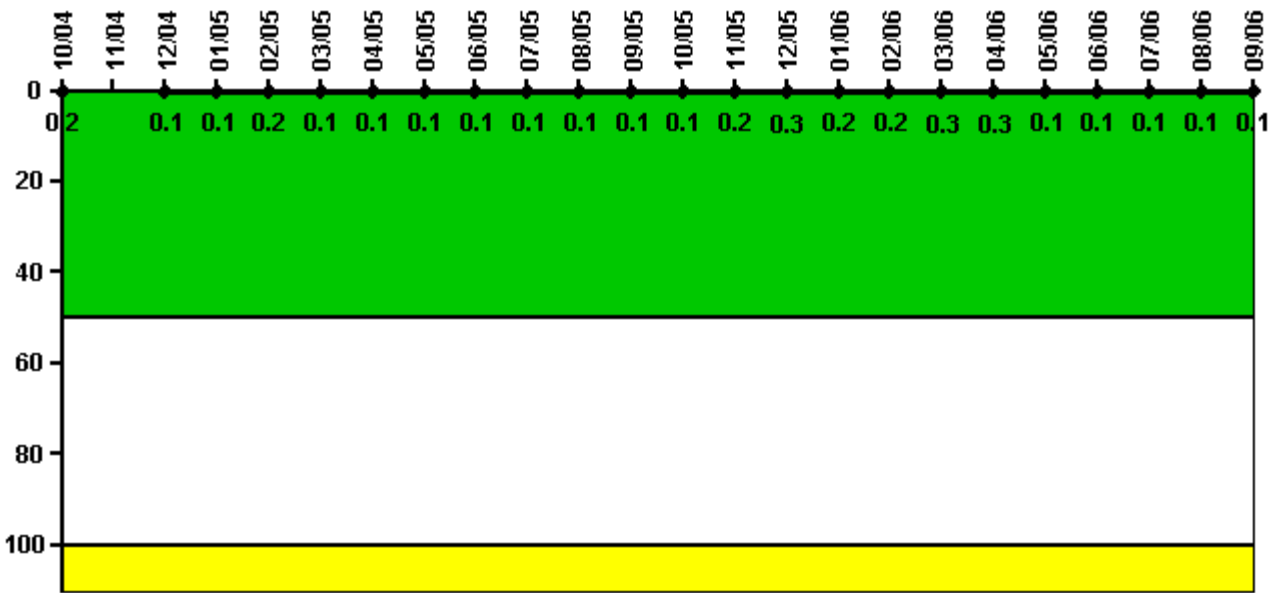
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)							4.60E-10	5.30E-10
URI (ΔCDF)							-8.70E-08	-8.90E-08
PLE							NO	NO
Indicator value							-8.65E-08	-8.85E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

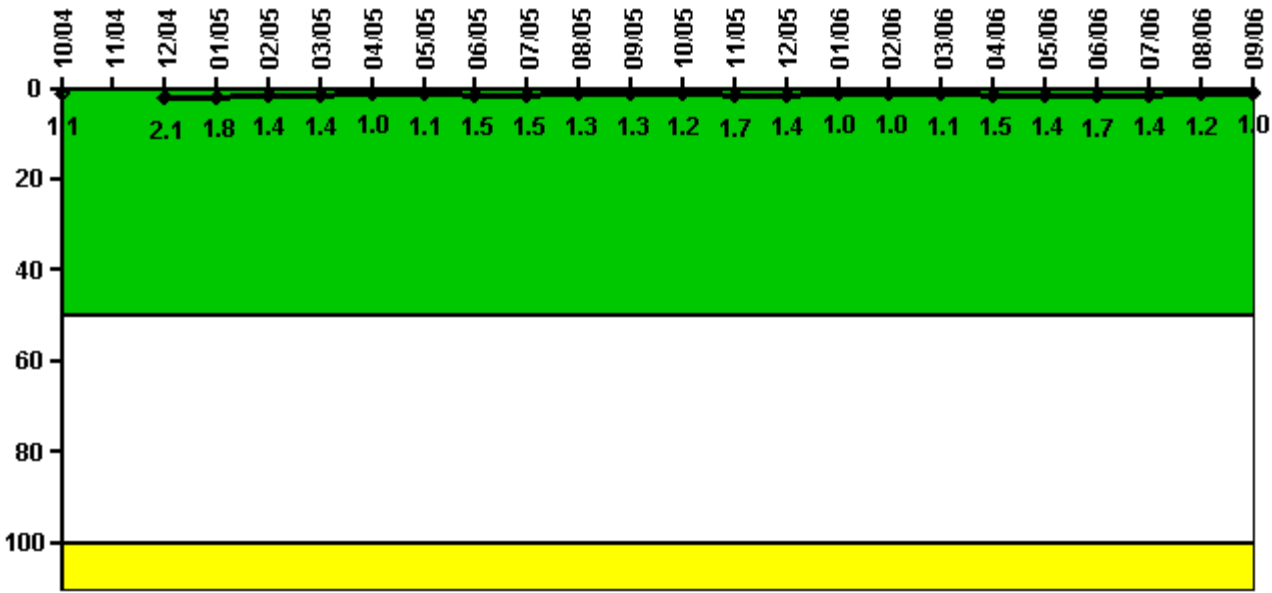
Notes

Reactor Coolant System Activity	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum activity	0.002010	N/A	0.000968	0.001300	0.001520	0.001200	0.001160	0.001190	0.001350	0.001460	0.001350	0.001480
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	N/A	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1

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	0.001460	0.001630	0.003080	0.001720	0.001750	0.002760	0.003370	0.000813	0.001140	0.000901	0.000990	0.001120
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.2	0.3	0.2	0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



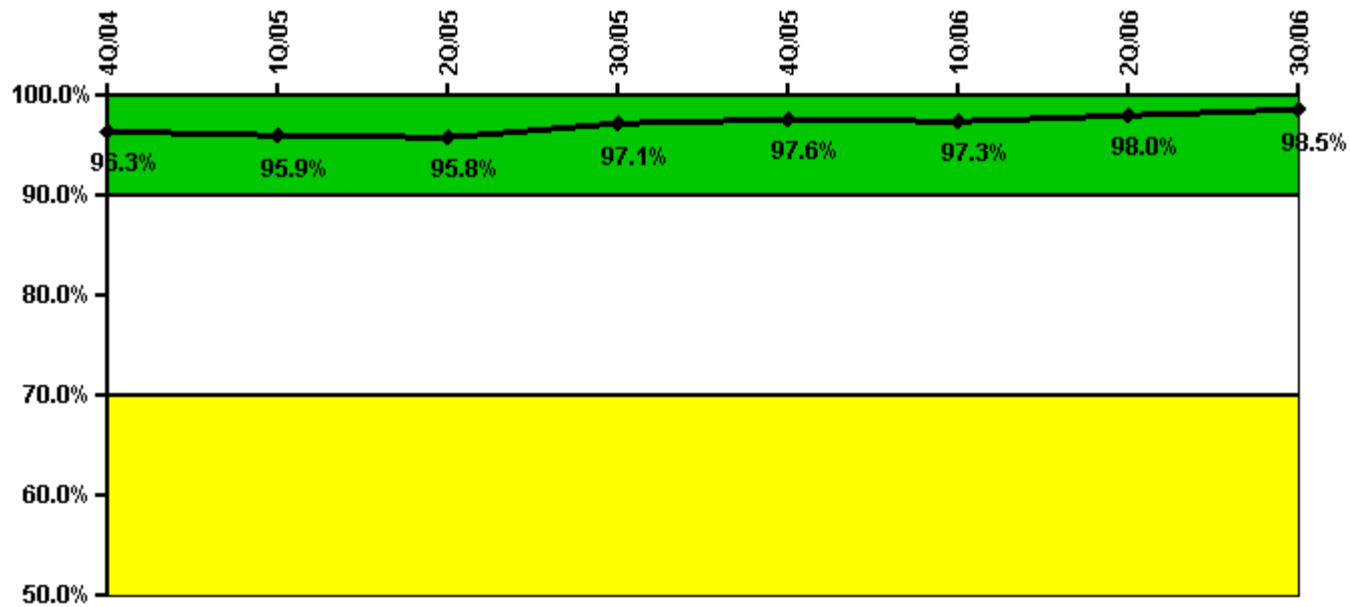
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.110	N/A	0.210	0.180	0.140	0.140	0.100	0.110	0.150	0.150	0.130	0.130
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.1	N/A	2.1	1.8	1.4	1.4	1.0	1.1	1.5	1.5	1.3	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	0.120	0.170	0.140	0.100	0.100	0.110	0.150	0.140	0.170	0.140	0.120	0.100
Technical specification limit	10.0	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	1.7	1.4	1.0	1.0	1.1	1.5	1.4	1.7	1.4	1.2	1.0

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

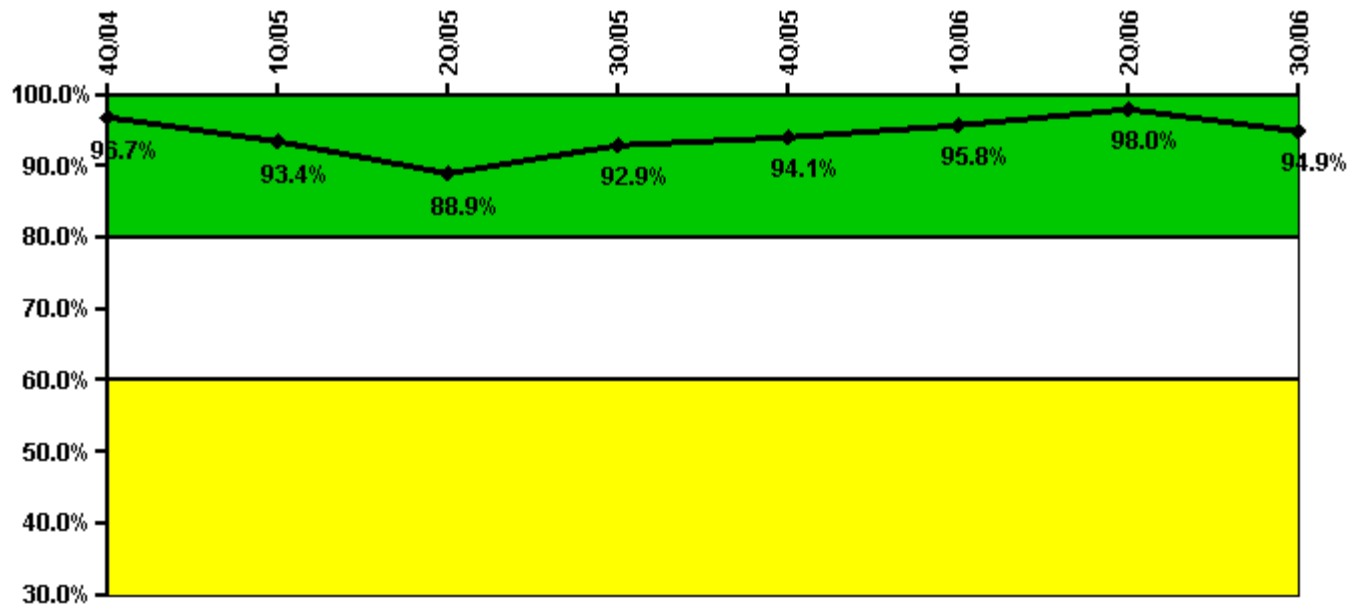
Notes

Drill/Exercise Performance	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful opportunities	8.0	19.0	20.0	29.0	27.0	34.0	23.0	31.0
Total opportunities	8.0	20.0	20.0	29.0	27.0	35.0	23.0	32.0
Indicator value	96.3%	95.9%	95.8%	97.1%	97.6%	97.3%	98.0%	98.5%

Licensee Comments:

3Q/06: Based on NRC review, a missed opportunity was accounted for in Feb. 2006 with no change in color. See NRC reports 05000280/2006010 and 05000281/2006010 dated July 25, 2006.

ERO Drill Participation



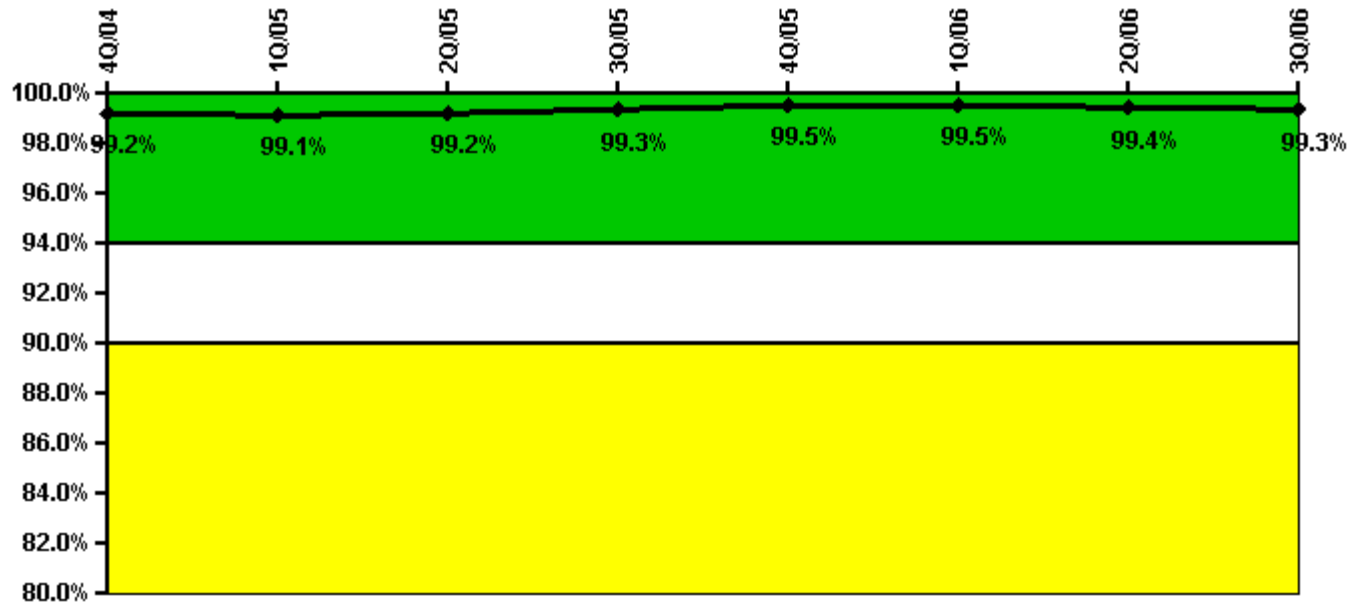
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Participating Key personnel	148.0	142.0	136.0	144.0	144.0	137.0	145.0	149.0
Total Key personnel	153.0	152.0	153.0	155.0	153.0	143.0	148.0	157.0
Indicator value	96.7%	93.4%	88.9%	92.9%	94.1%	95.8%	98.0%	94.9%

Licensee Comments: none

Alert & Notification System



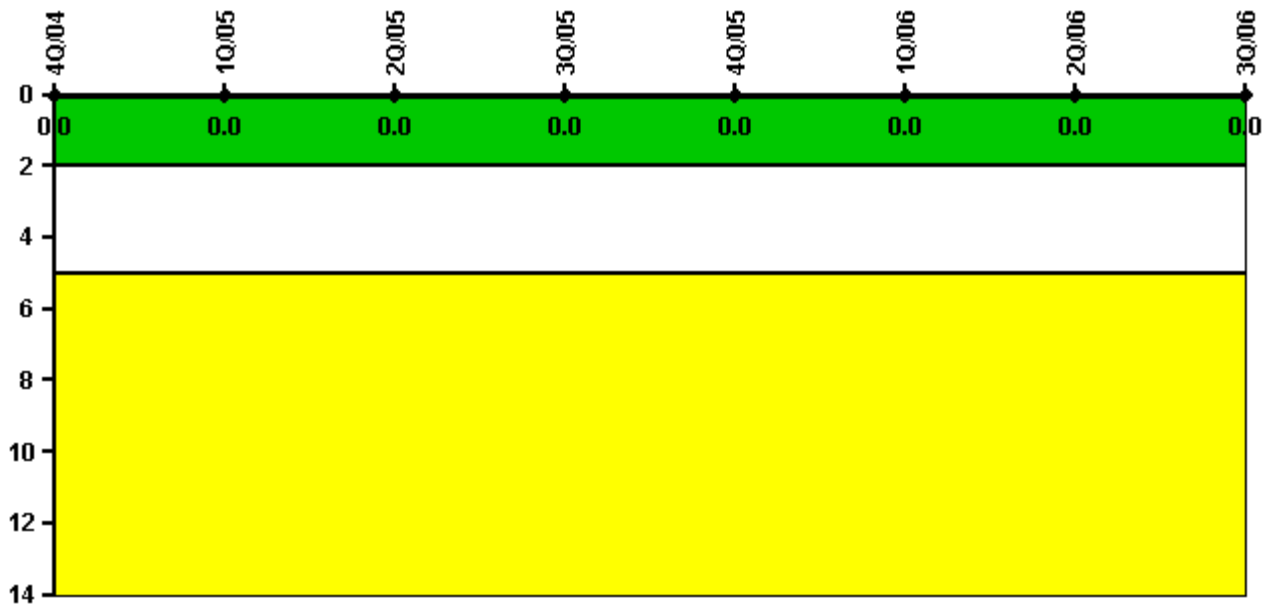
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful siren-tests	461	534	475	541	472	542	473	539
Total sirens-tests	469	537	476	544	476	544	476	544
Indicator value	99.2%	99.1%	99.2%	99.3%	99.5%	99.5%	99.4%	99.3%

Licensee Comments: none

Occupational Exposure Control Effectiveness



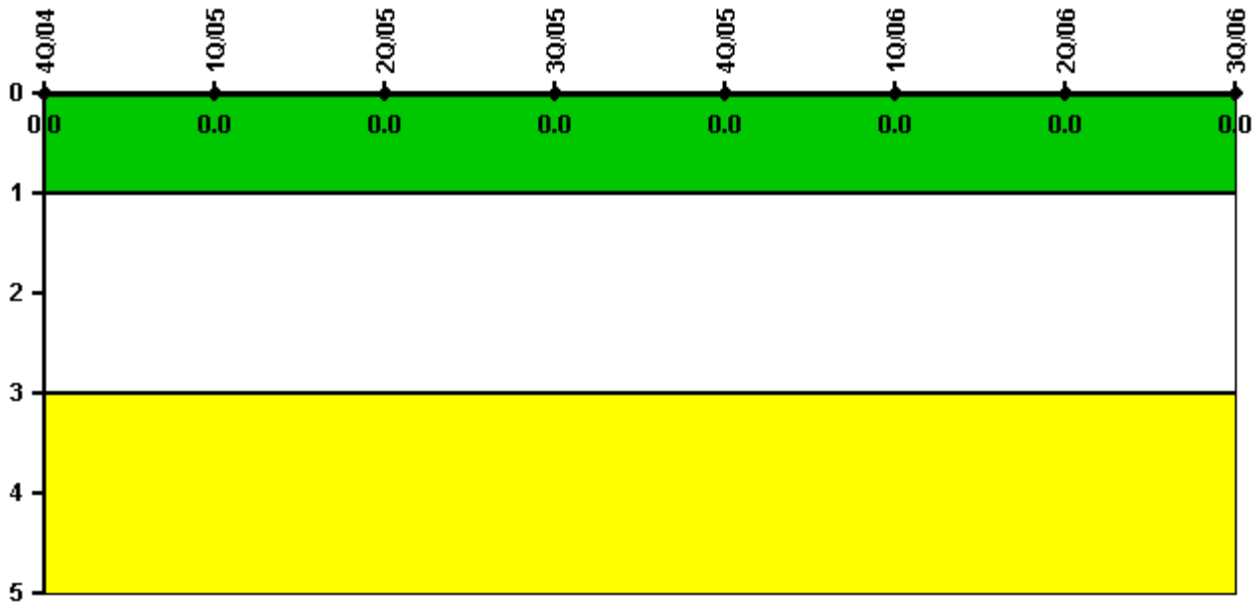
Thresholds: White > 2.0 Yellow > 5.0

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.

Surry 1

4Q/2006 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



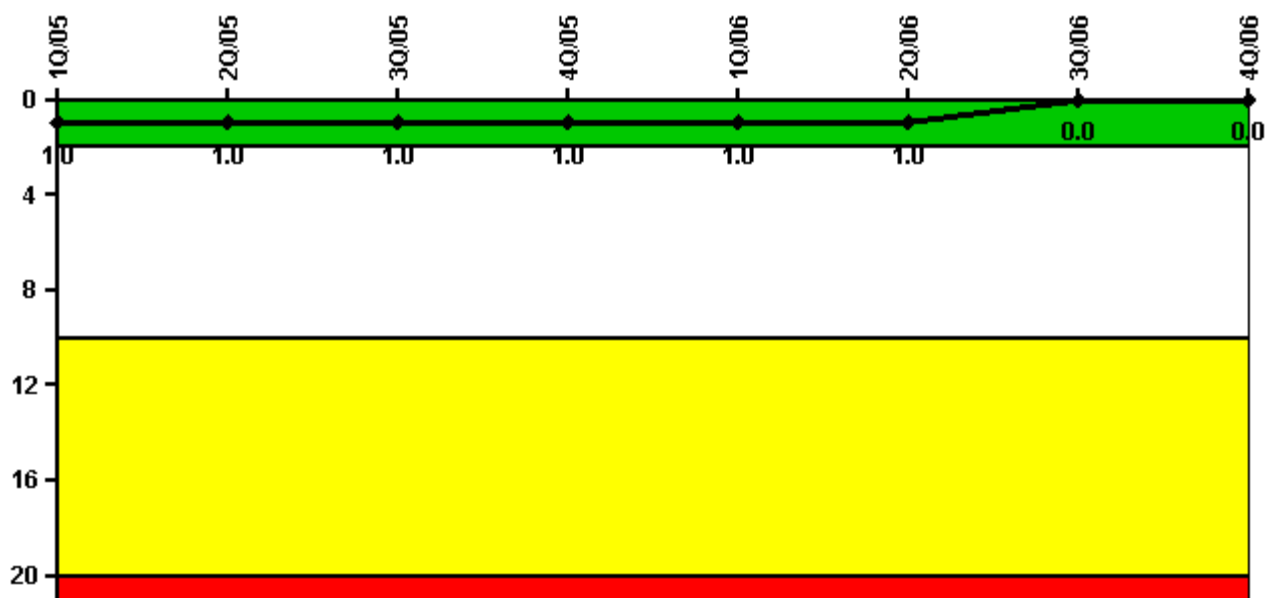
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2068.5	2183.0	2208.0	1964.0	2160.0	1413.5	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



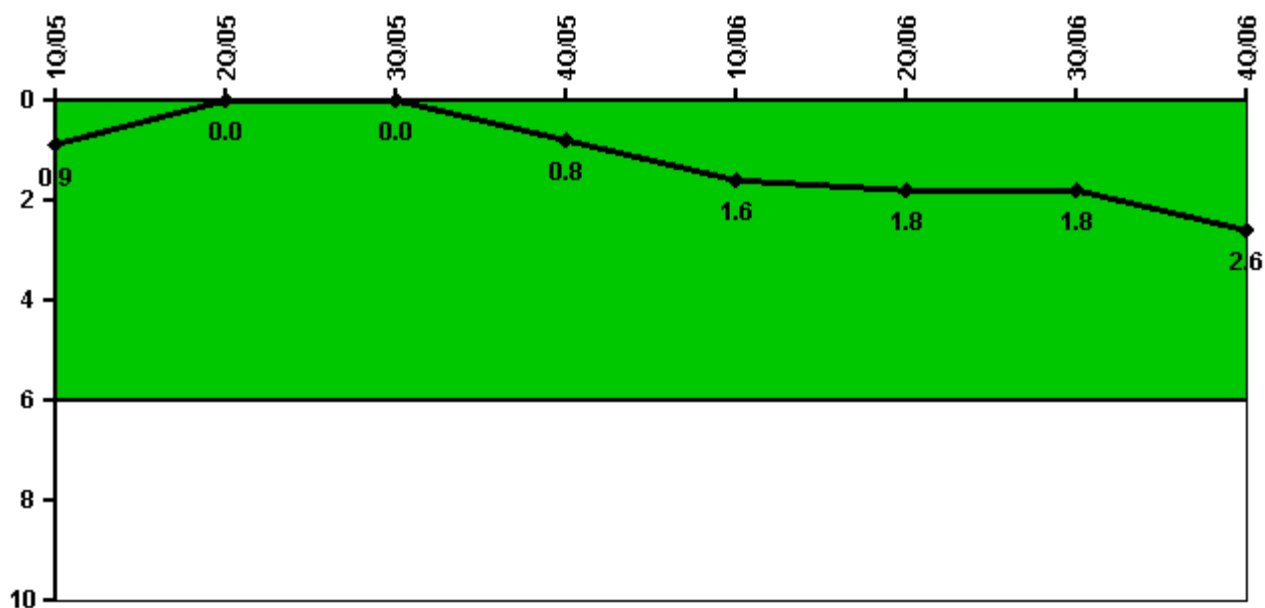
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



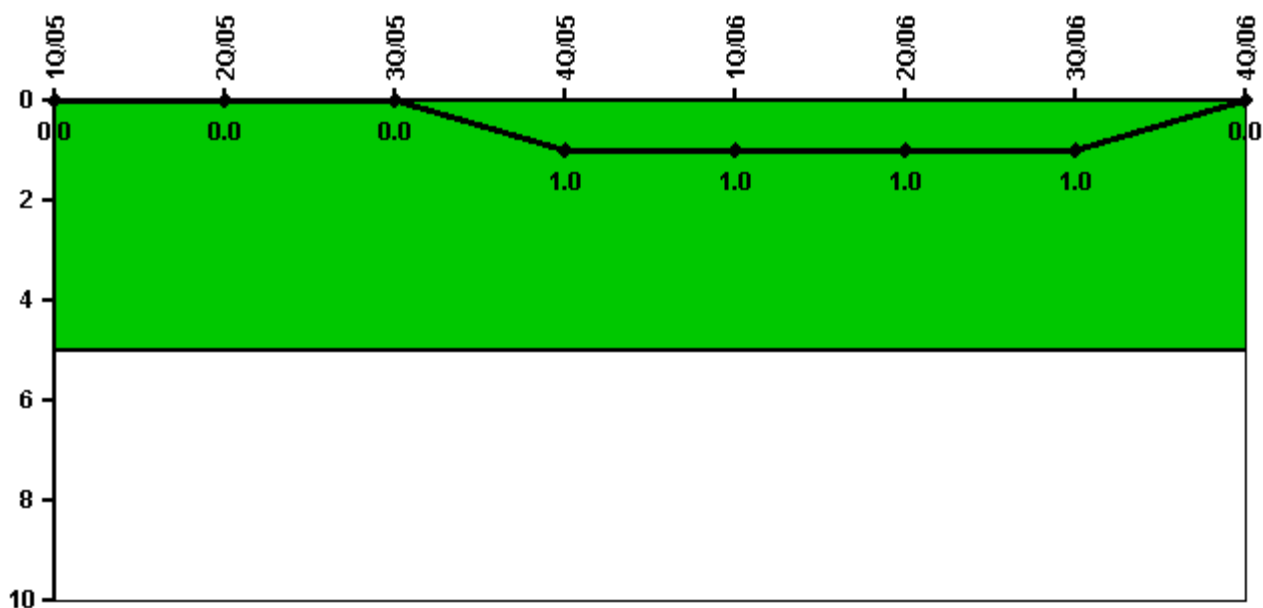
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned power changes	0	0	0	1.0	1.0	0	0	2.0
Critical hours	2068.5	2183.0	2208.0	1964.0	2160.0	1413.5	2208.0	2209.0
Indicator value	0.9	0	0	0.8	1.6	1.8	1.8	2.6

Licensee Comments: none

Safety System Functional Failures (PWR)



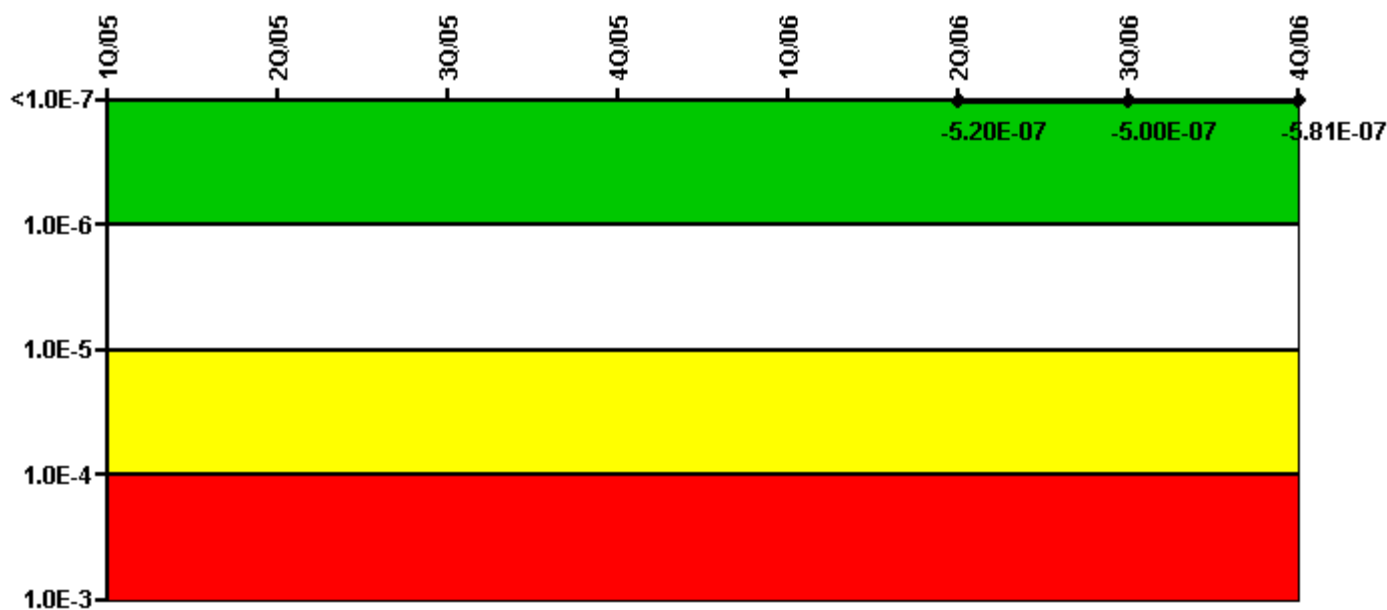
Thresholds: White > 5.0

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	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

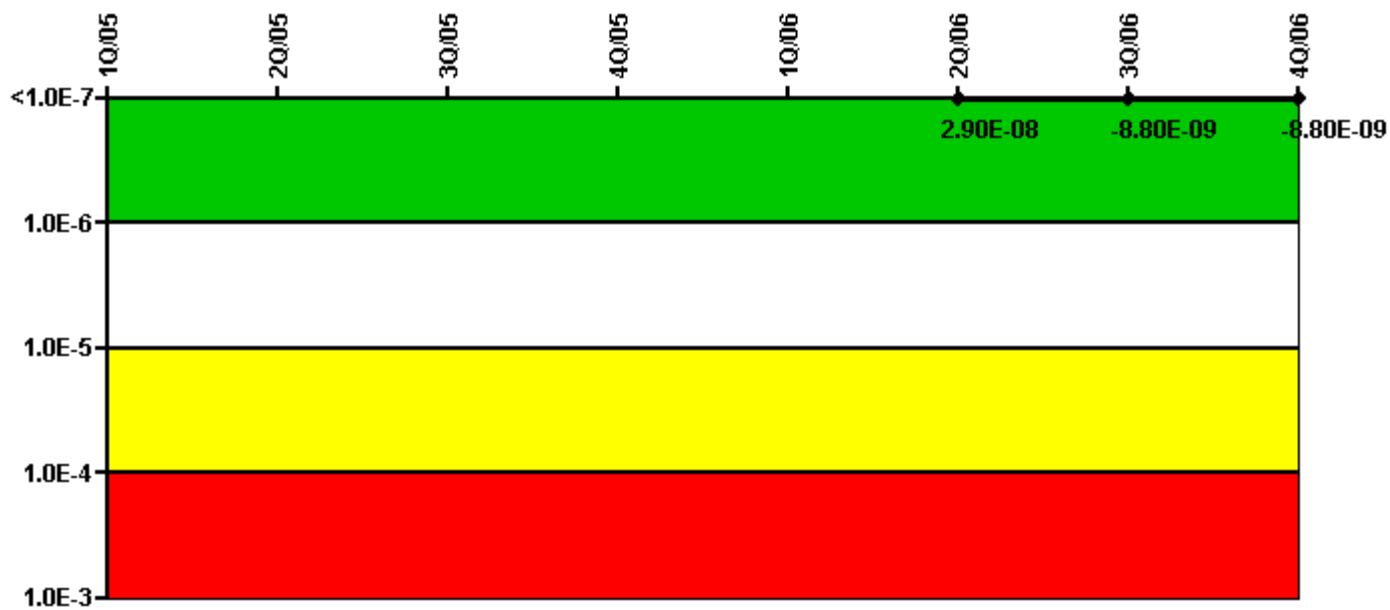
Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						5.00E-08	6.00E-08	5.90E-08
URI (ΔCDF)						-5.70E-07	-5.60E-07	-6.40E-07
PLE						NO	NO	NO
Indicator value						-5.20E-07	-5.00E-07	-5.81E-07

Licensee Comments:

4Q/06: A self-evaluation revealed some historical failure data inaccuracies. Also an inspection from the NRC Resident revealed several inaccuracies with unavailability baseline coefficients in the Basis Document and the CDE. Data was corrected with no change in color.

Mitigating Systems Performance Index, High Pressure Injection System



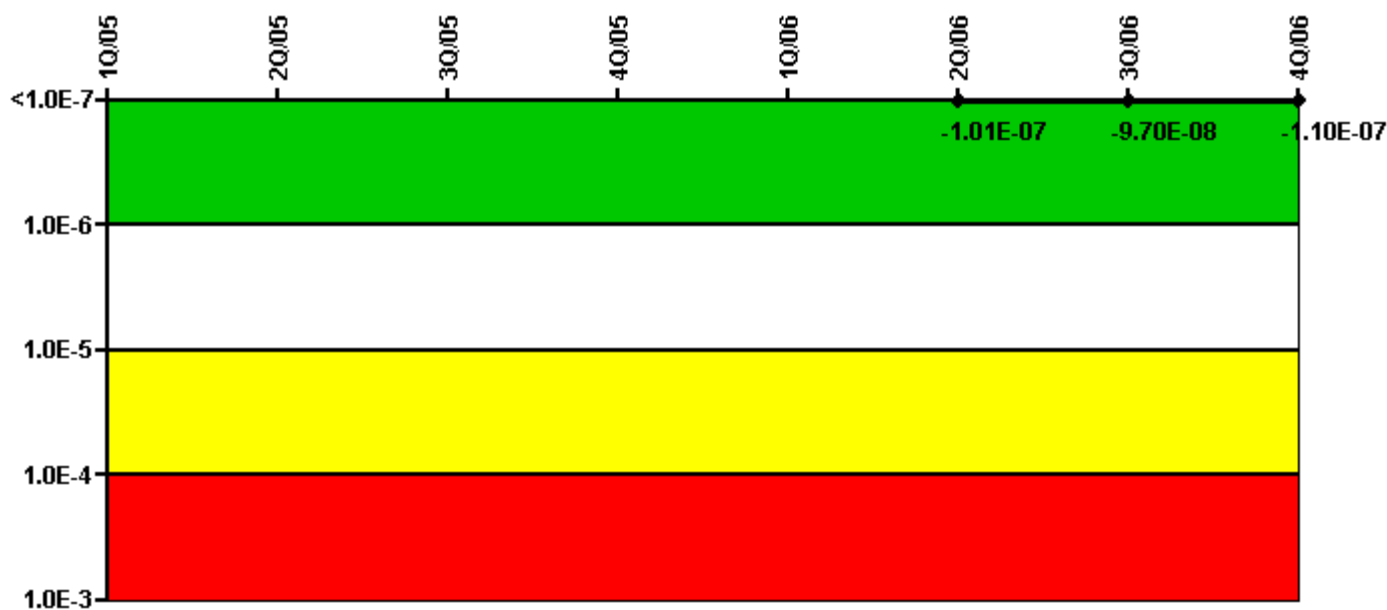
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						-1.00E-09	-2.30E-09	-2.30E-09
URI (ΔCDF)						3.00E-08	-6.50E-09	-6.50E-09
PLE						NO	NO	NO
Indicator value						2.90E-08	-8.80E-09	-8.80E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



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

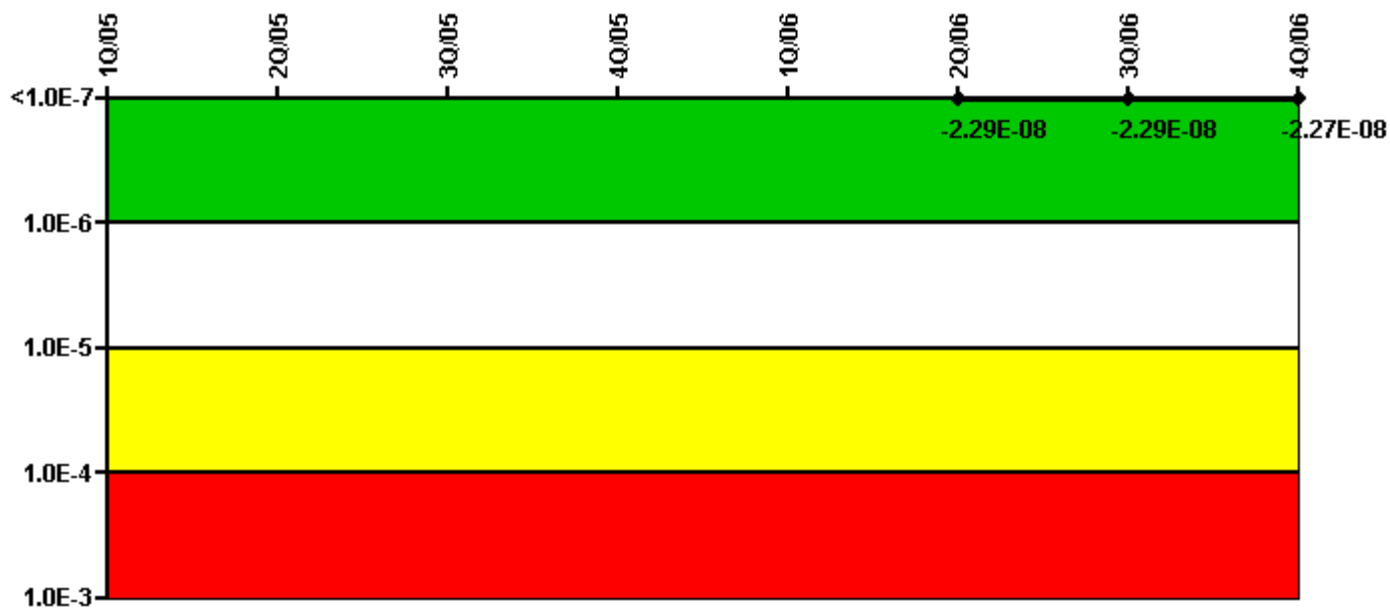
Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ACDF)						9.00E-09	1.30E-08	3.60E-10
URI (ACDF)						-1.10E-07	-1.10E-07	-1.10E-07
PLE						NO	NO	NO
Indicator value						-1.01E-07	-9.70E-08	-1.10E-07

Licensee Comments:

4Q/06: An inspection from the NRC Resident revealed historical data inaccuracies in January and February 2006. Also unavailability baseline coefficients were corrected in the Basis Document and the CDE. Data was corrected with no change in color.

Mitigating Systems Performance Index, Residual Heat Removal System



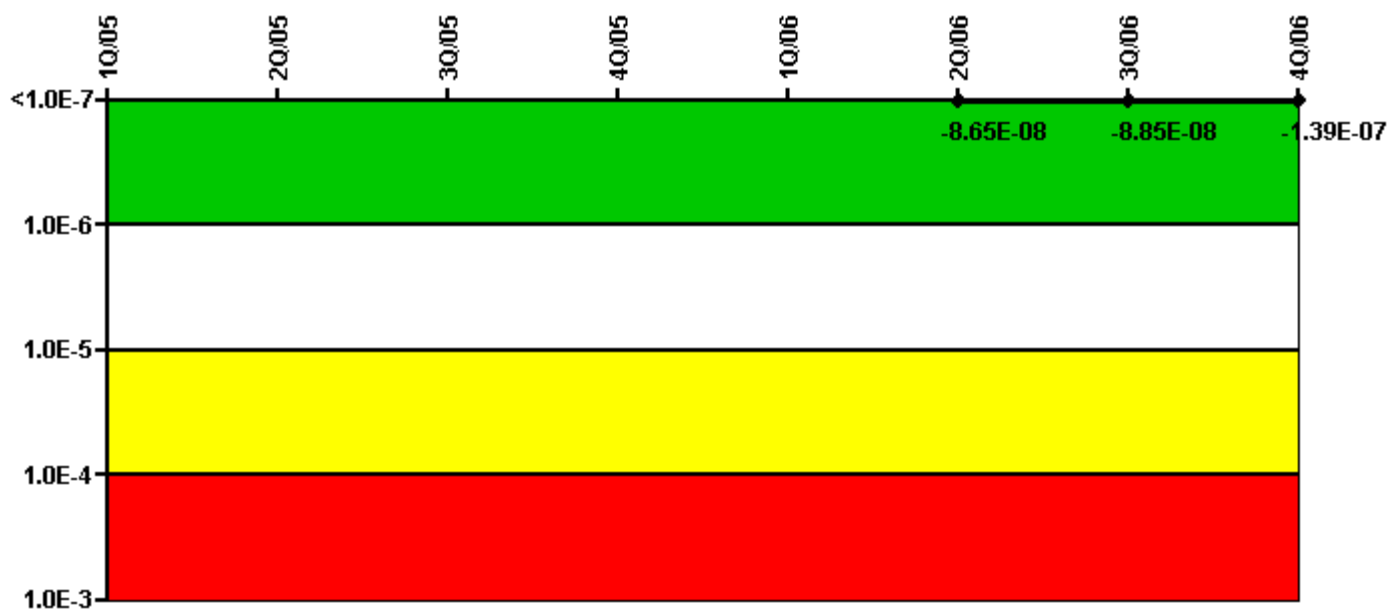
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (Δ CDF)						-4.90E-09	-4.90E-09	-4.70E-09
URI (Δ CDF)						-1.80E-08	-1.80E-08	-1.80E-08
PLE						NO	NO	NO
Indicator value						-2.29E-08	-2.29E-08	-2.27E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

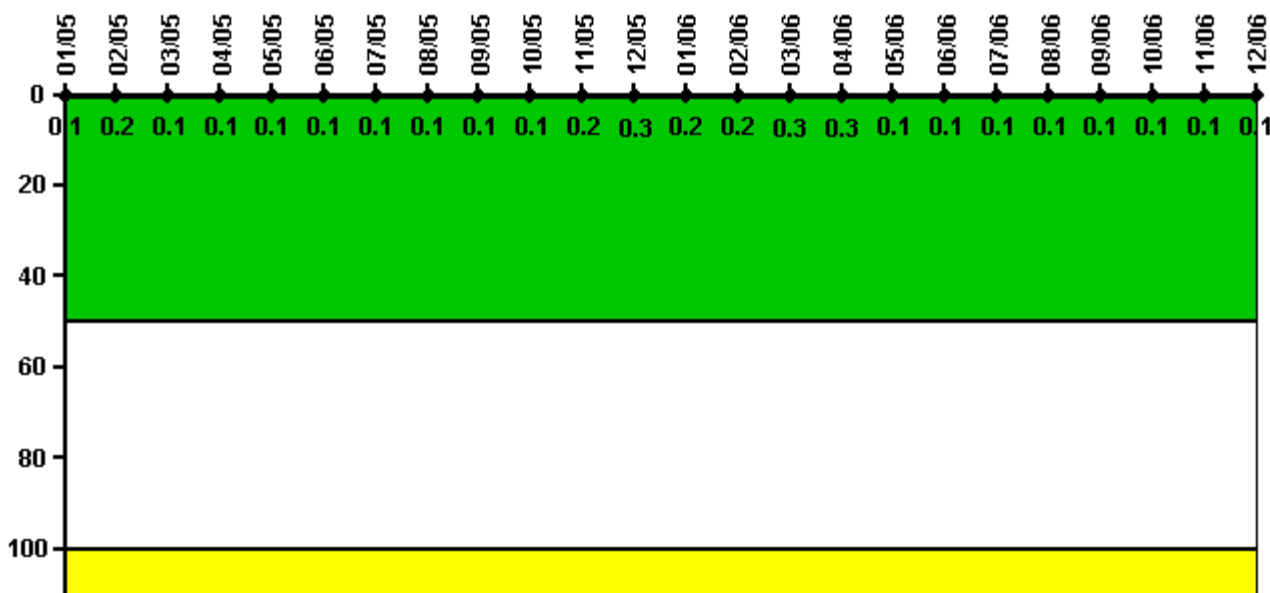
Notes

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)						4.60E-10	5.30E-10	7.70E-10
URI (ΔCDF)						-8.70E-08	-8.90E-08	-1.40E-07
PLE						NO	NO	NO
Indicator value						-8.65E-08	-8.85E-08	-1.39E-07

Licensee Comments:

4Q/06: During the NRC TI 2515/169 Mitigating Systems Performance Index Verification Inspection, the Resident Inspector found data inaccuracies in months prior to fourth quarter 2006. Data corrections will be performed at the first quarter 2007 data submittal and should not result in a color change.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

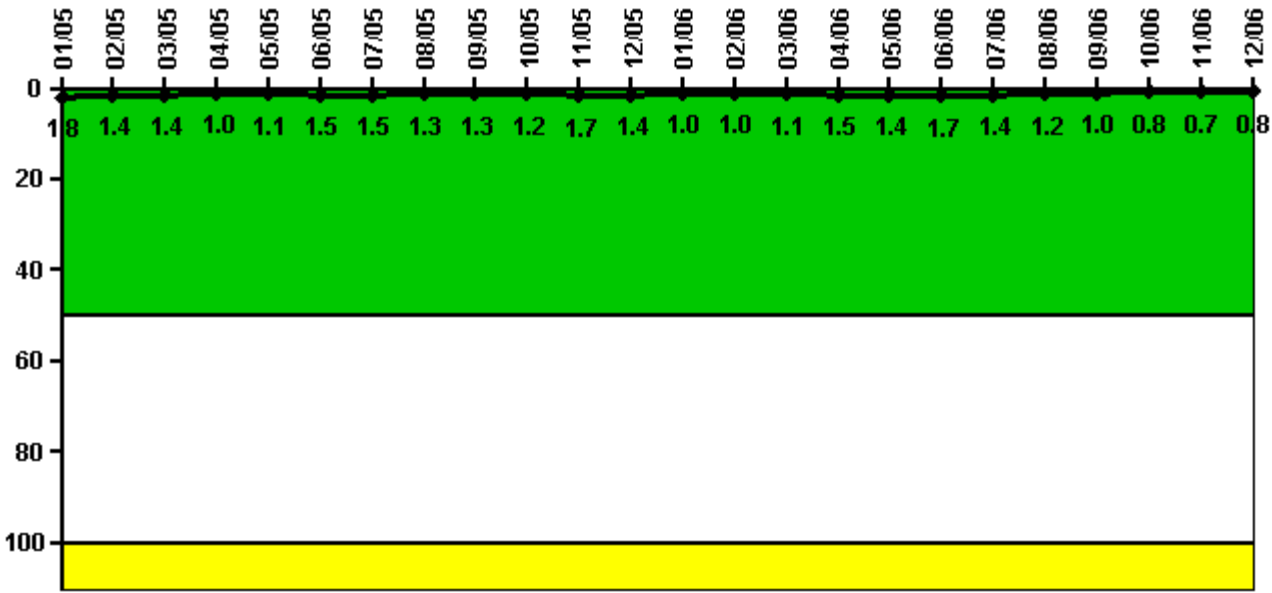
Notes

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	0.001300	0.001520	0.001200	0.001160	0.001190	0.001350	0.001460	0.001350	0.001480	0.001460	0.001630	0.003080
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3

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	0.001720	0.001750	0.002760	0.003370	0.000813	0.001140	0.000901	0.000990	0.001120	0.001060	0.001120	0.001180
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



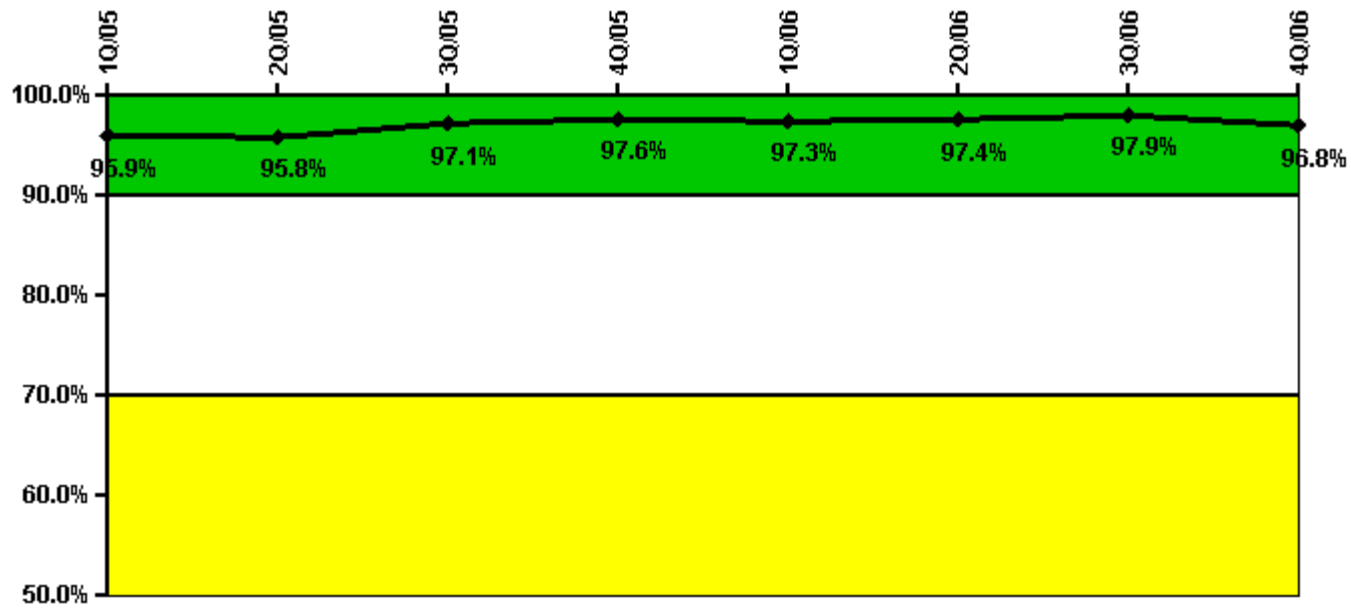
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
Maximum leakage	0.180	0.140	0.140	0.100	0.110	0.150	0.150	0.130	0.130	0.120	0.170	0.140
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.8	1.4	1.4	1.0	1.1	1.5	1.5	1.3	1.3	1.2	1.7	1.4
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	0.100	0.100	0.110	0.150	0.140	0.170	0.140	0.120	0.100	0.080	0.070	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.0	1.1	1.5	1.4	1.7	1.4	1.2	1.0	0.8	0.7	0.8

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

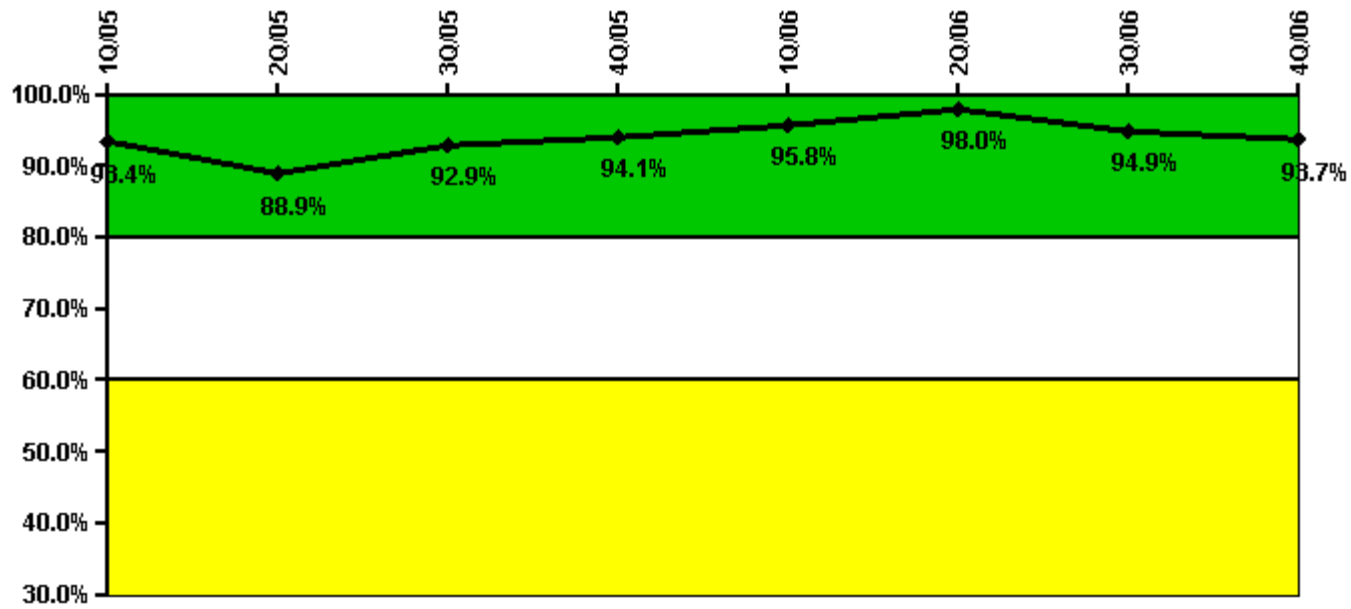
Notes

Drill/Exercise Performance	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful opportunities	19.0	20.0	29.0	27.0	34.0	22.0	31.0	1.0
Total opportunities	20.0	20.0	29.0	27.0	35.0	23.0	32.0	3.0
Indicator value	95.9%	95.8%	97.1%	97.6%	97.3%	97.4%	97.9%	96.8%

Licensee Comments:

4Q/06: Based on a Self Assessment, a missed opportunity was not accounted for in April 2006. Data was corrected with no change in color.

ERO Drill Participation



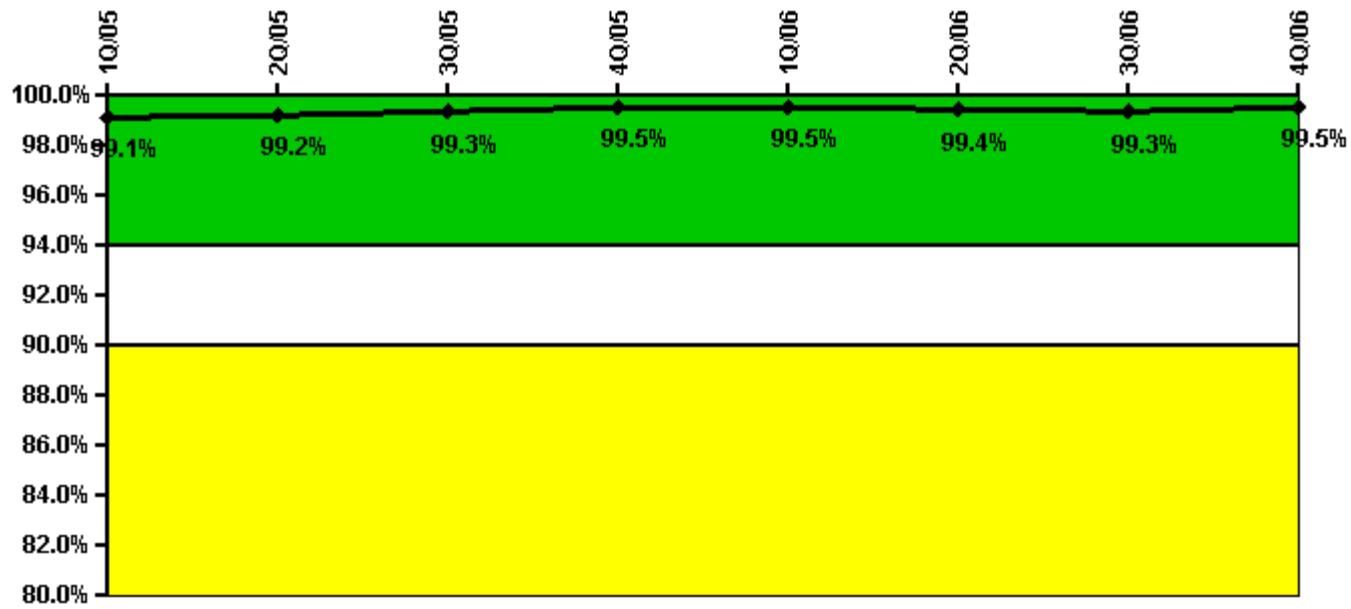
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Participating Key personnel	142.0	136.0	144.0	144.0	137.0	145.0	149.0	149.0
Total Key personnel	152.0	153.0	155.0	153.0	143.0	148.0	157.0	159.0
Indicator value	93.4%	88.9%	92.9%	94.1%	95.8%	98.0%	94.9%	93.7%

Licensee Comments: none

Alert & Notification System



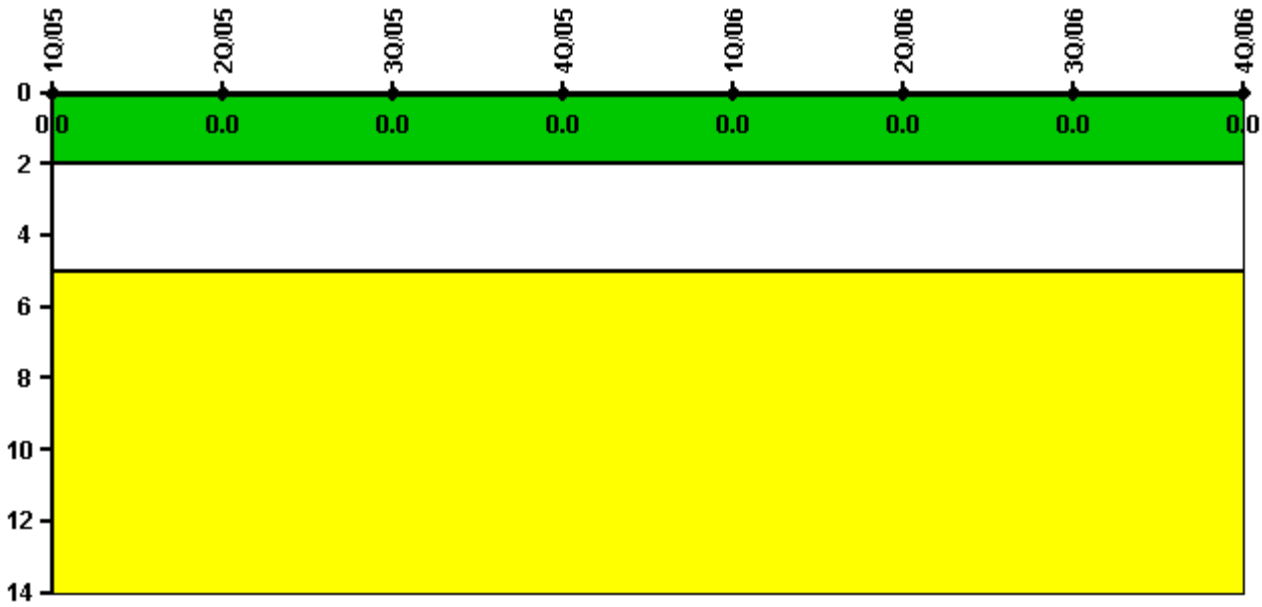
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful siren-tests	534	475	541	472	542	473	539	476
Total sirens-tests	537	476	544	476	544	476	544	476
Indicator value	99.1%	99.2%	99.3%	99.5%	99.5%	99.4%	99.3%	99.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness



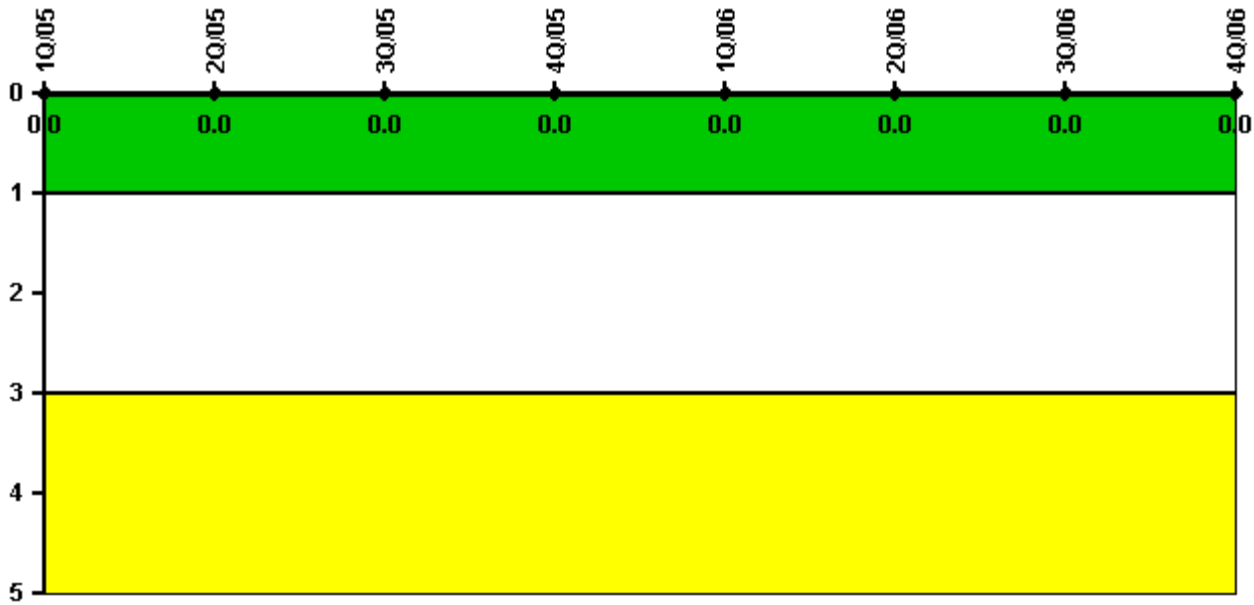
Thresholds: White > 2.0 Yellow > 5.0

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

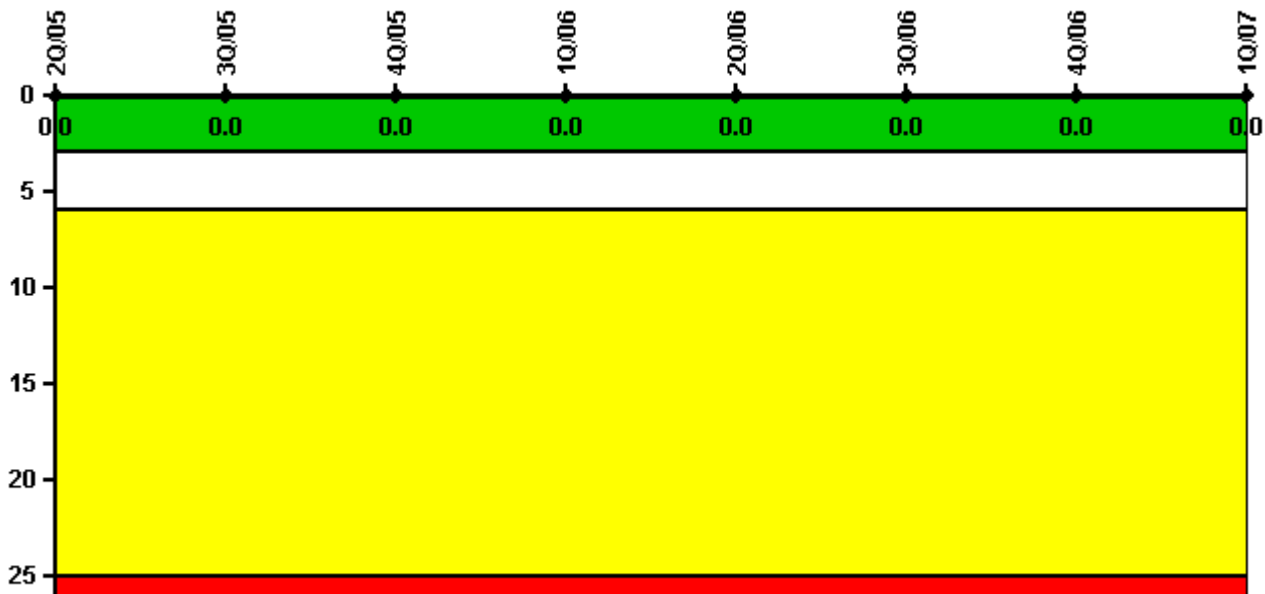
[Physical Protection](#) information not publicly available.

Surry 1

1Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



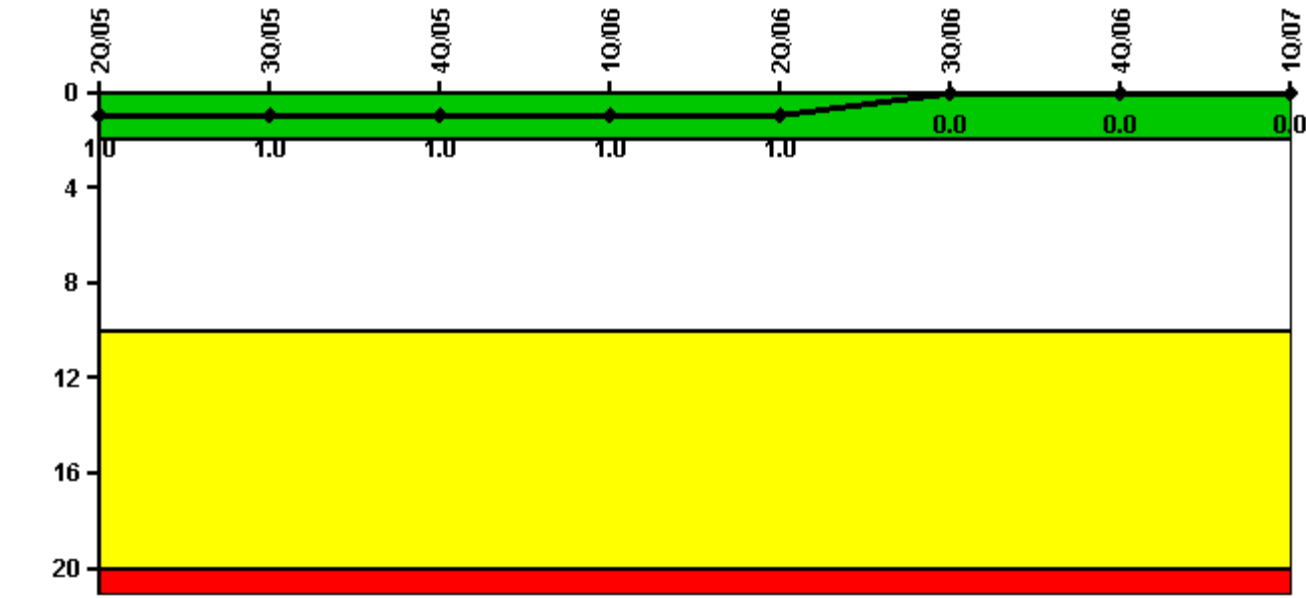
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	2208.0	1964.0	2160.0	1413.5	2208.0	2209.0	2133.5
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



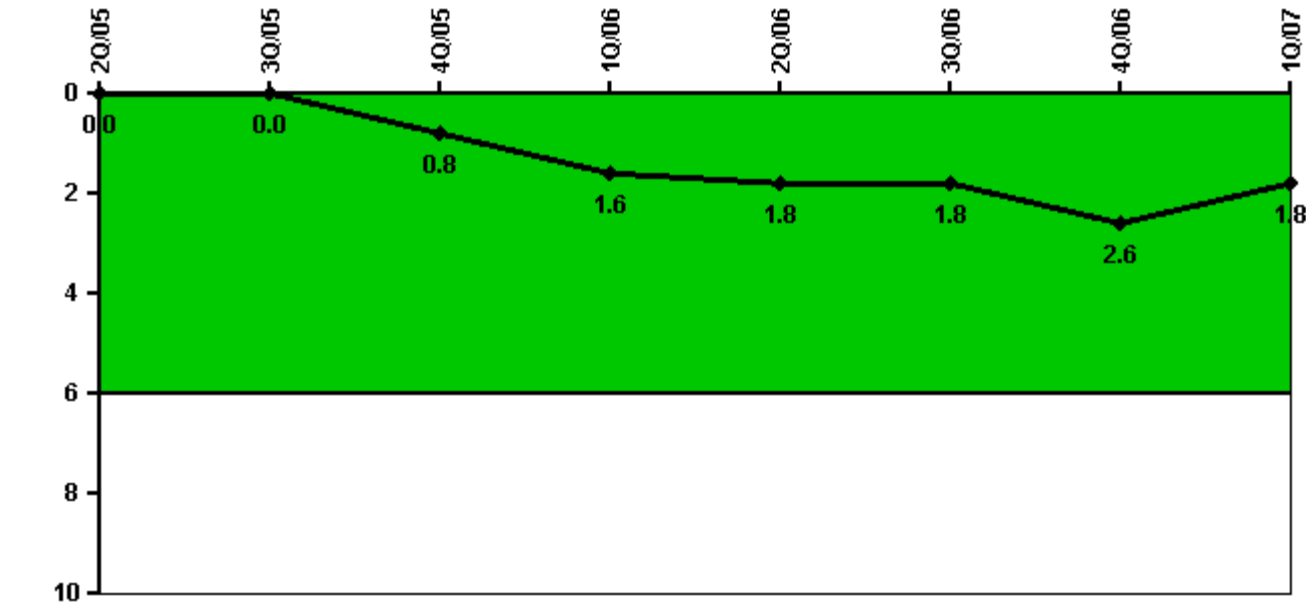
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



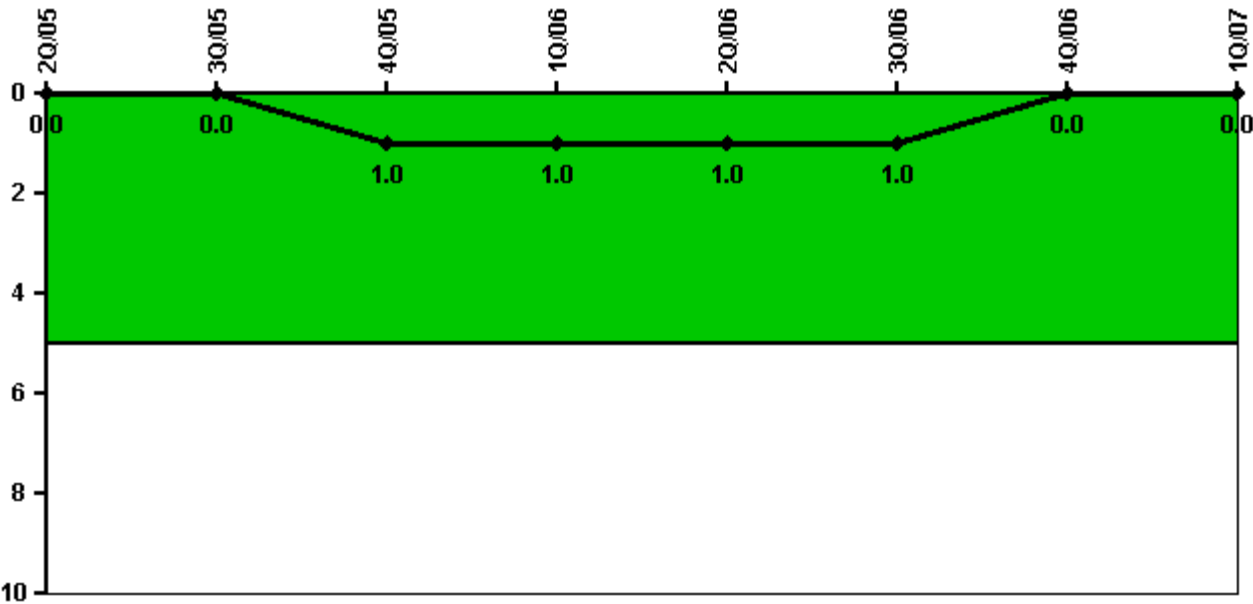
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned power changes	0	0	1.0	1.0	0	0	2.0	0
Critical hours	2183.0	2208.0	1964.0	2160.0	1413.5	2208.0	2209.0	2133.5
Indicator value	0	0	0.8	1.6	1.8	1.8	2.6	1.8

Licensee Comments: none

Safety System Functional Failures (PWR)



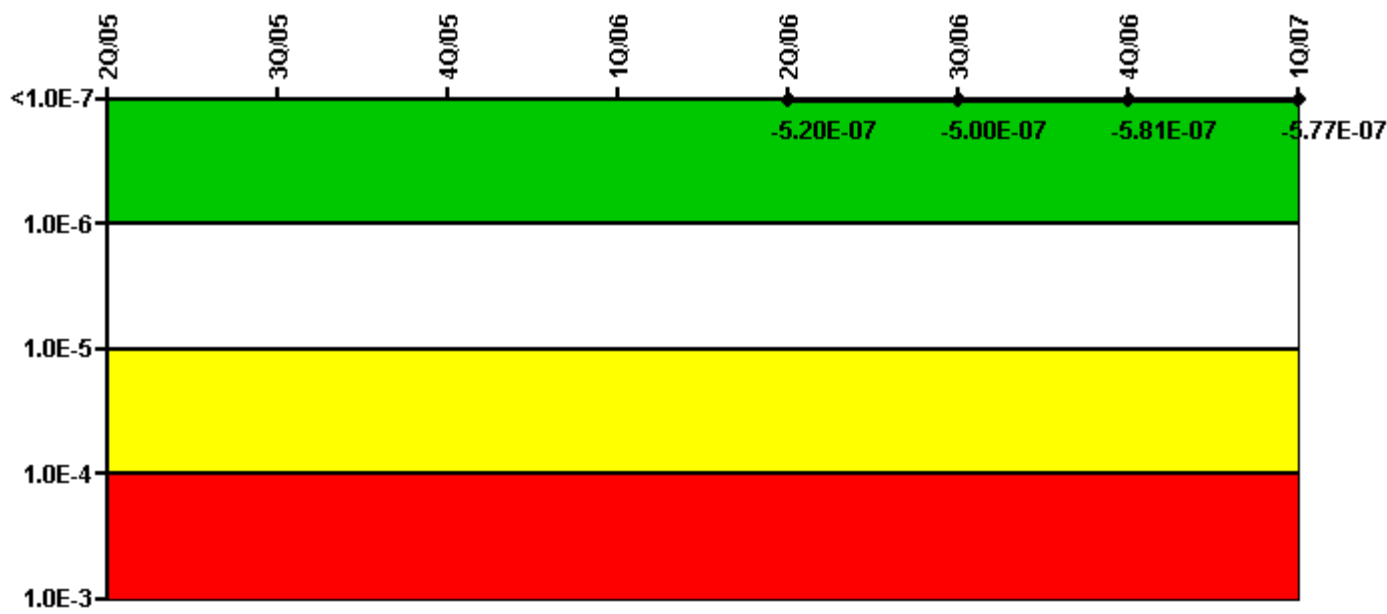
Thresholds: White > 5.0

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	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

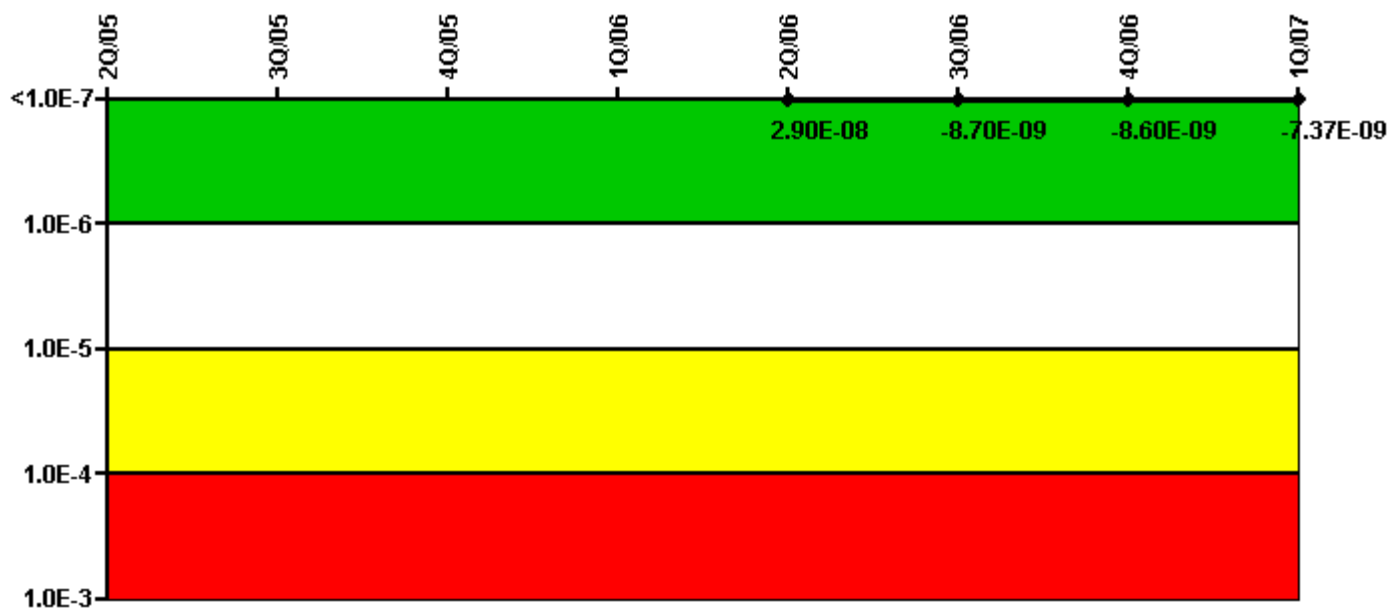
Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					5.00E-08	6.00E-08	5.90E-08	5.30E-08
URI (ΔCDF)					-5.70E-07	-5.60E-07	-6.40E-07	-6.30E-07
PLE					NO	NO	NO	NO
Indicator value					-5.20E-07	-5.00E-07	-5.81E-07	-5.77E-07

Licensee Comments:

1Q/07: During the NRC TI 2515/169 Mitigating Systems Performance Index Verification Inspection, the Resident Inspector found historical data inaccuracies. Data corrections were performed with no change in color.

Mitigating Systems Performance Index, High Pressure Injection System



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

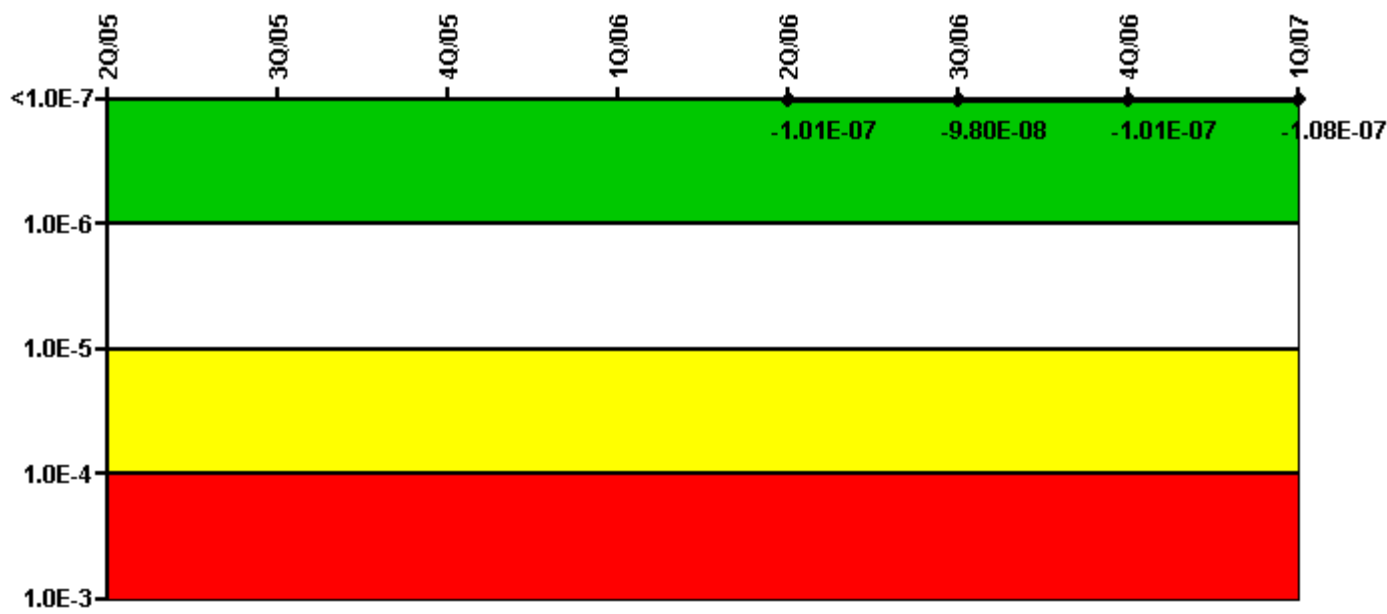
Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					-1.00E-09	-2.30E-09	-2.30E-09	-7.70E-10
URI (ΔCDF)					3.00E-08	-6.40E-09	-6.30E-09	-6.60E-09
PLE					NO	NO	NO	NO
Indicator value					2.90E-08	-8.70E-09	-8.60E-09	-7.37E-09

Licensee Comments:

1Q/07: During the NRC TI 2515/169 Mitigating Systems Performance Index Verification Inspection, the Resident Inspector found historical data inaccuracies. Data corrections were performed with no change in color.

Mitigating Systems Performance Index, Heat Removal System



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

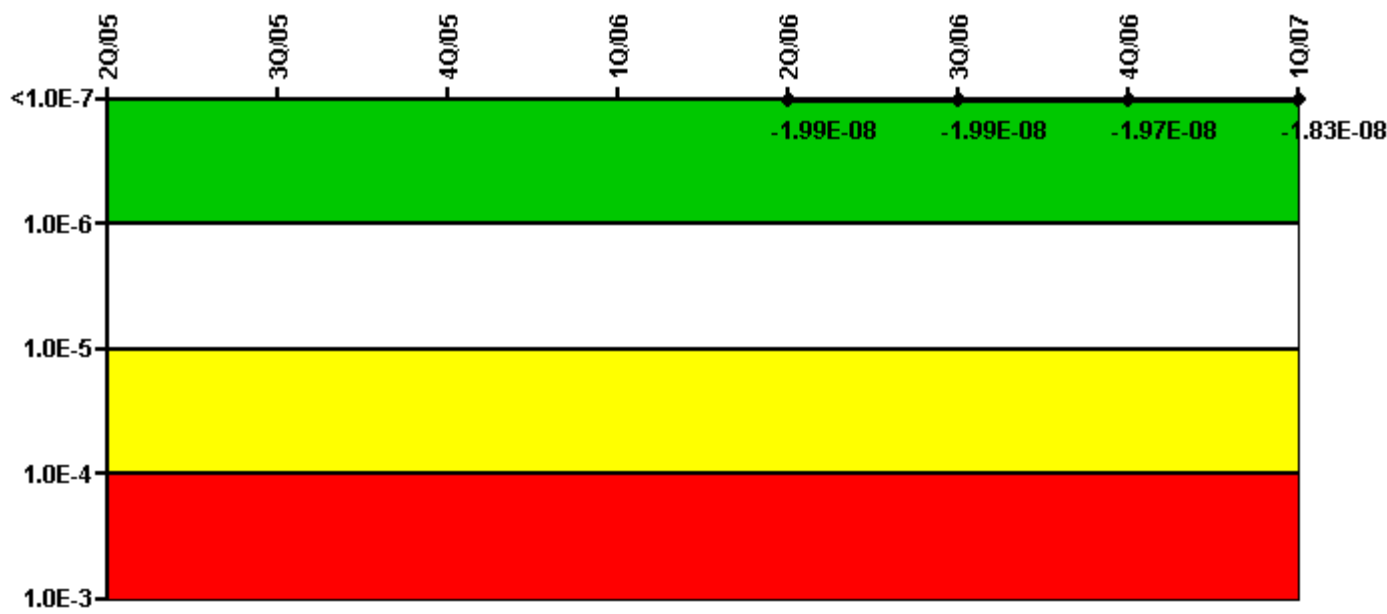
Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					8.70E-09	1.20E-08	-6.30E-10	-8.10E-09
URI (ΔCDF)					-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07
PLE					NO	NO	NO	NO
Indicator value					-1.01E-07	-9.80E-08	-1.01E-07	-1.08E-07

Licensee Comments:

1Q/07: During the NRC TI 2515/169 Mitigating Systems Performance Index Verification Inspection, the Resident Inspector found historical data inaccuracies. Data corrections were performed with no change in color.

Mitigating Systems Performance Index, Residual Heat Removal System



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

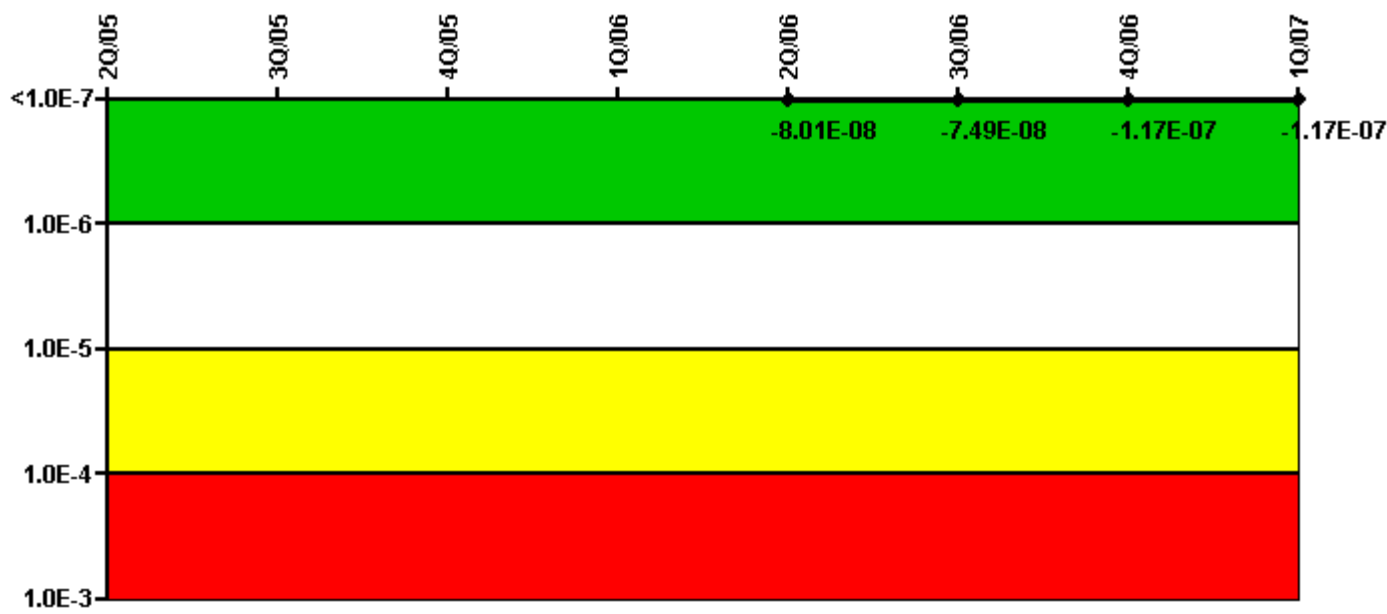
Notes

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)					-4.90E-09	-4.90E-09	-4.70E-09	-3.30E-09
URI (ΔCDF)					-1.50E-08	-1.50E-08	-1.50E-08	-1.50E-08
PLE					NO	NO	NO	NO
Indicator value					-1.99E-08	-1.99E-08	-1.97E-08	-1.83E-08

Licensee Comments:

1Q/07: During the NRC TI 2515/169 Mitigating Systems Performance Index Verification Inspection, the Resident Inspector found historical data inaccuracies. Data corrections were performed with no change in color.

Mitigating Systems Performance Index, Cooling Water Systems



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

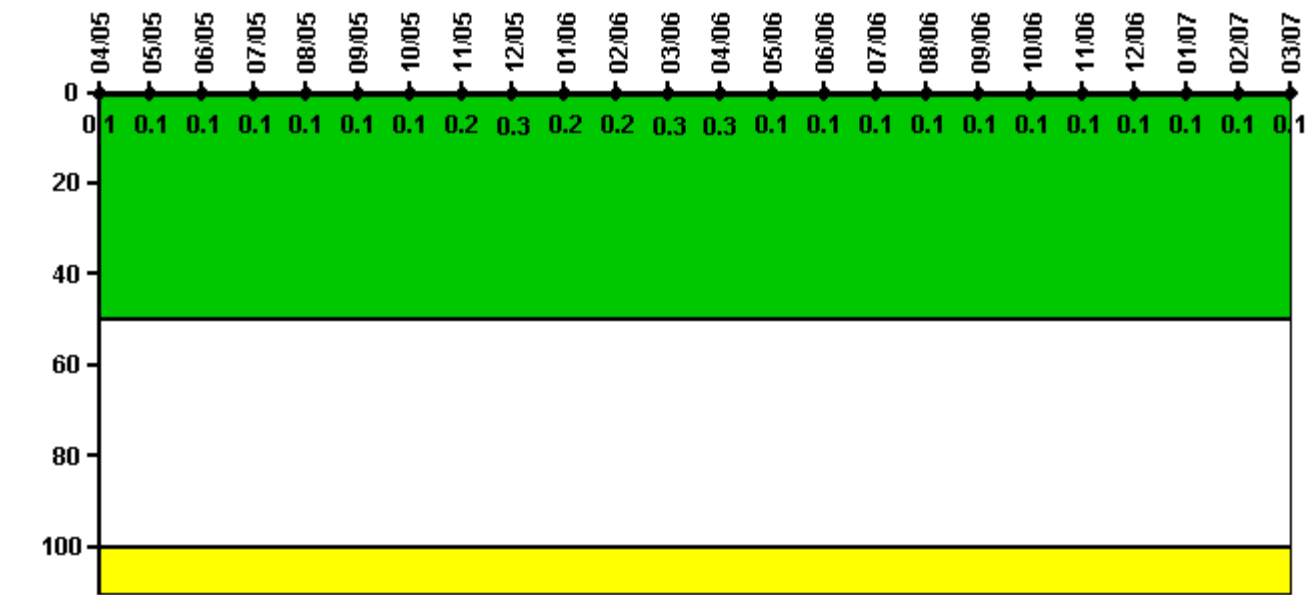
Notes

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)					1.90E-09	3.10E-09	2.70E-09	2.70E-09
URI (ΔCDF)					-8.20E-08	-7.80E-08	-1.20E-07	-1.20E-07
PLE					NO	NO	NO	NO
Indicator value					-8.01E-08	-7.49E-08	-1.17E-07	-1.17E-07

Licensee Comments:

1Q/07: During the NRC TI 2515/169 Mitigating Systems Performance Index Verification Inspection, the Resident Inspector found historical data inaccuracies. Data corrections were performed with no change in color.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

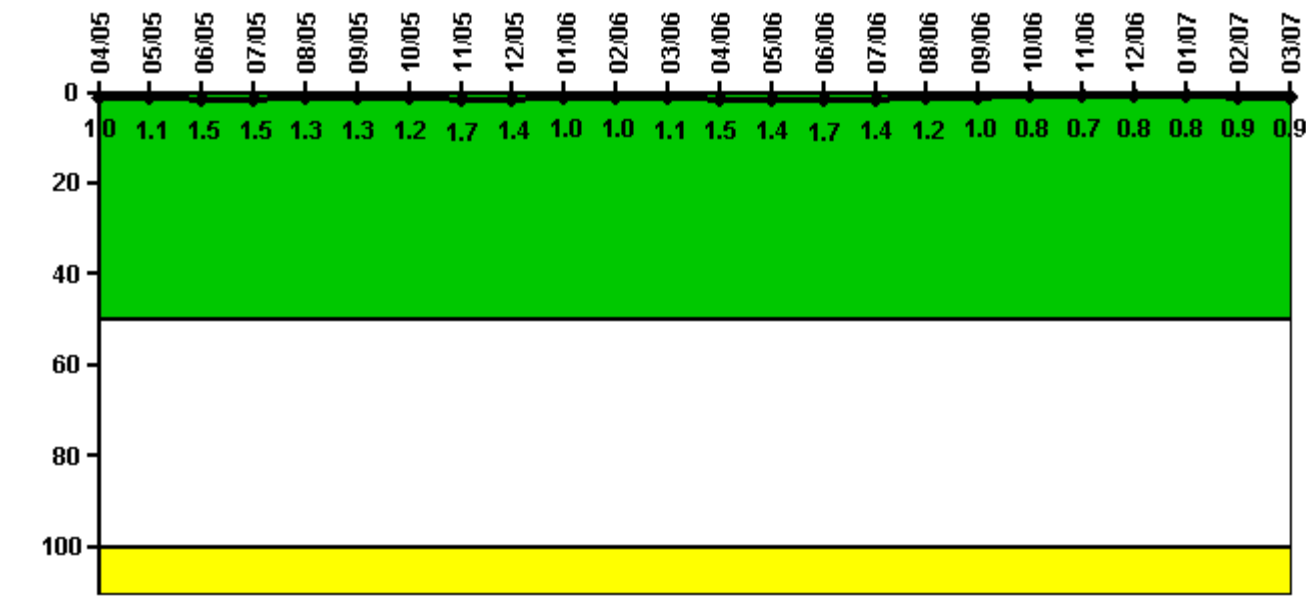
Notes

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	0.001160	0.001190	0.001350	0.001460	0.001350	0.001480	0.001460	0.001630	0.003080	0.001720	0.001750	0.002760
Technical specification limit	1.0	1.0	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	0.2	0.3	0.2	0.2	0.3

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	0.003370	0.000813	0.001140	0.000901	0.000990	0.001120	0.001060	0.001120	0.001180	0.001220	0.001300	0.001420
Technical specification limit	1.0	1.0	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	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

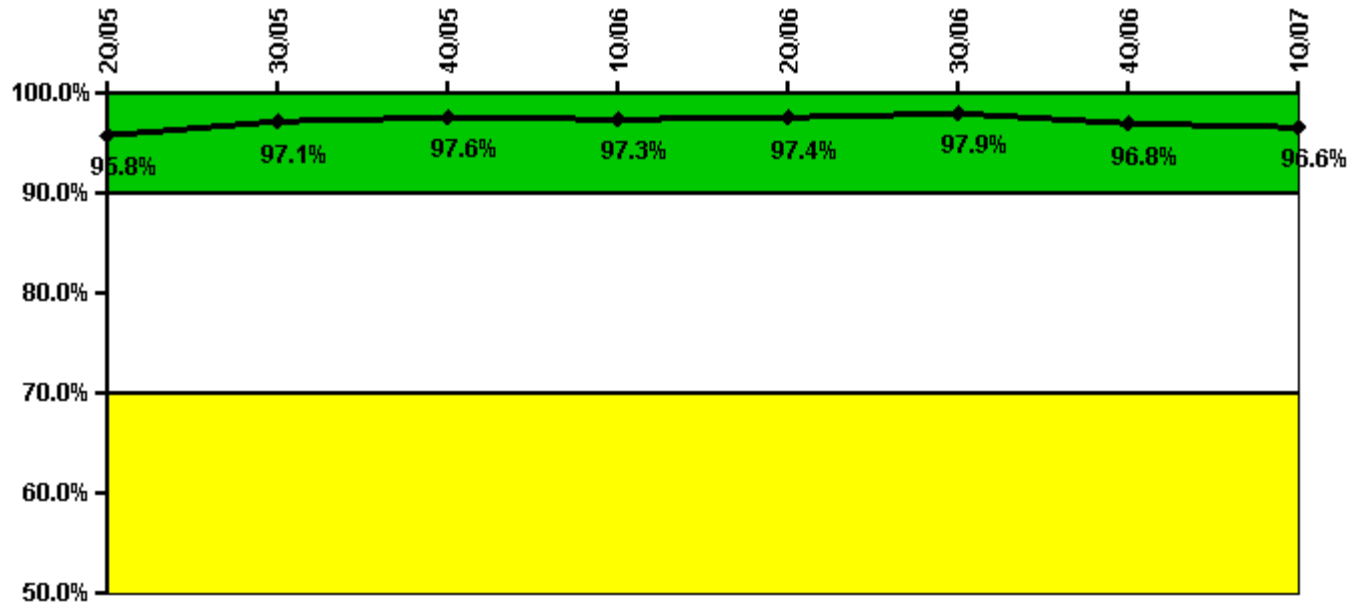
Notes

Reactor Coolant System Leakage	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum leakage	0.100	0.110	0.150	0.150	0.130	0.130	0.120	0.170	0.140	0.100	0.100	0.110
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.1	1.5	1.5	1.3	1.3	1.2	1.7	1.4	1.0	1.0	1.1

Reactor Coolant System Leakage	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum leakage	0.150	0.140	0.170	0.140	0.120	0.100	0.080	0.070	0.080	0.080	0.090	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.5	1.4	1.7	1.4	1.2	1.0	0.8	0.7	0.8	0.8	0.9	0.9

Licensee Comments: none

Drill/Exercise Performance



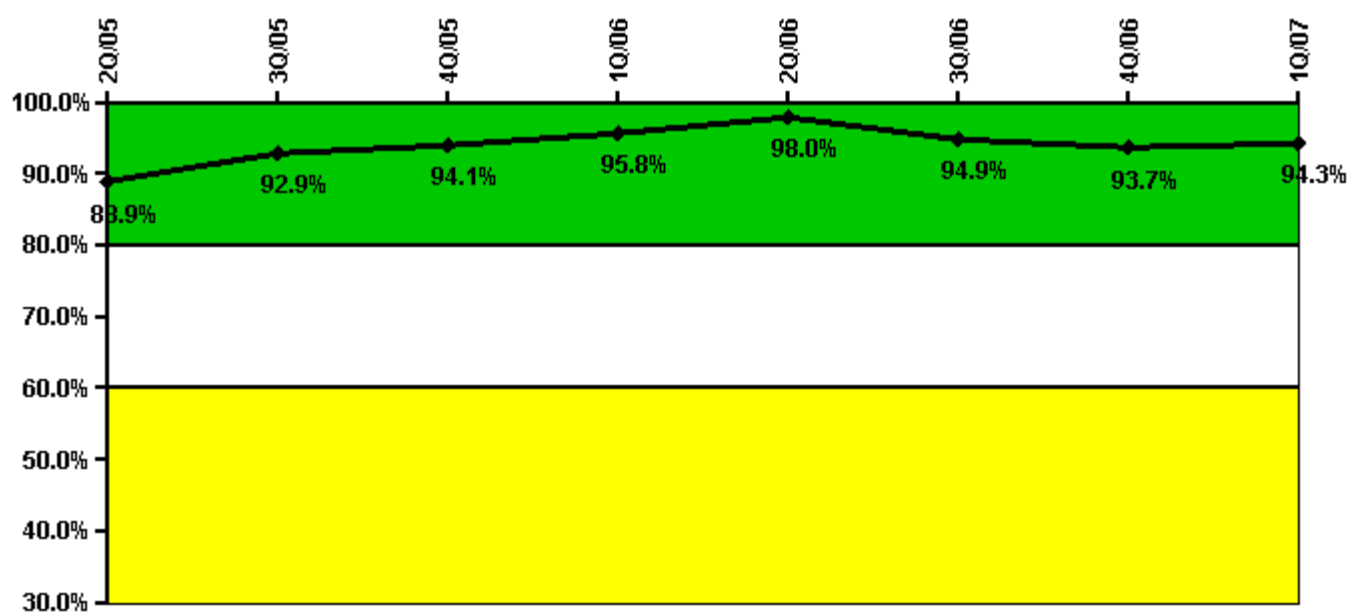
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful opportunities	20.0	29.0	27.0	34.0	22.0	31.0	1.0	33.0
Total opportunities	20.0	29.0	27.0	35.0	23.0	32.0	3.0	35.0
Indicator value	95.8%	97.1%	97.6%	97.3%	97.4%	97.9%	96.8%	96.6%

Licensee Comments: none

ERO Drill Participation



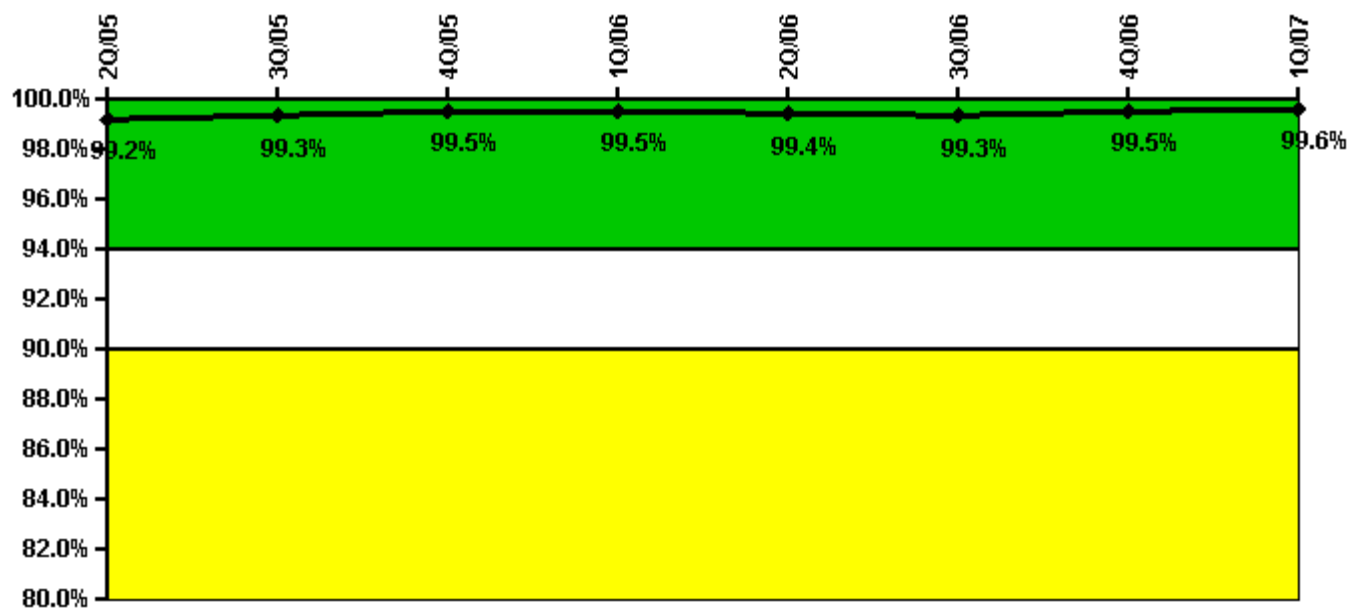
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Participating Key personnel	136.0	144.0	144.0	137.0	145.0	149.0	149.0	164.0
Total Key personnel	153.0	155.0	153.0	143.0	148.0	157.0	159.0	174.0
Indicator value	88.9%	92.9%	94.1%	95.8%	98.0%	94.9%	93.7%	94.3%

Licensee Comments: none

Alert & Notification System



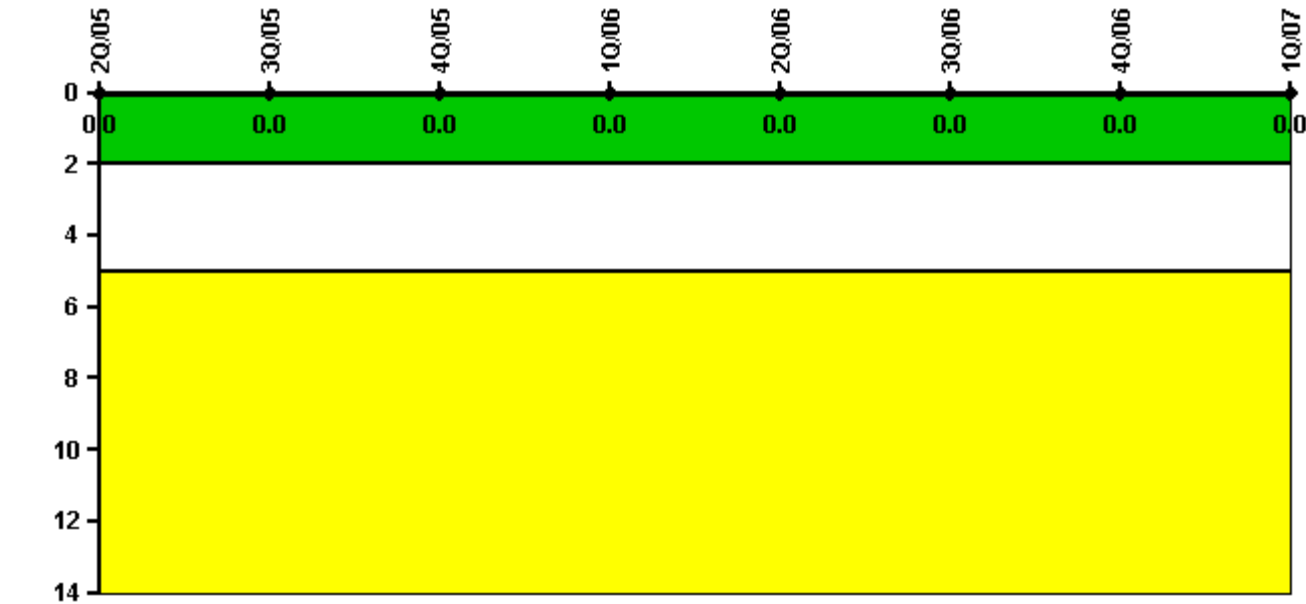
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful siren-tests	475	541	472	542	473	539	476	543
Total sirens-tests	476	544	476	544	476	544	476	544
Indicator value	99.2%	99.3%	99.5%	99.5%	99.4%	99.3%	99.5%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



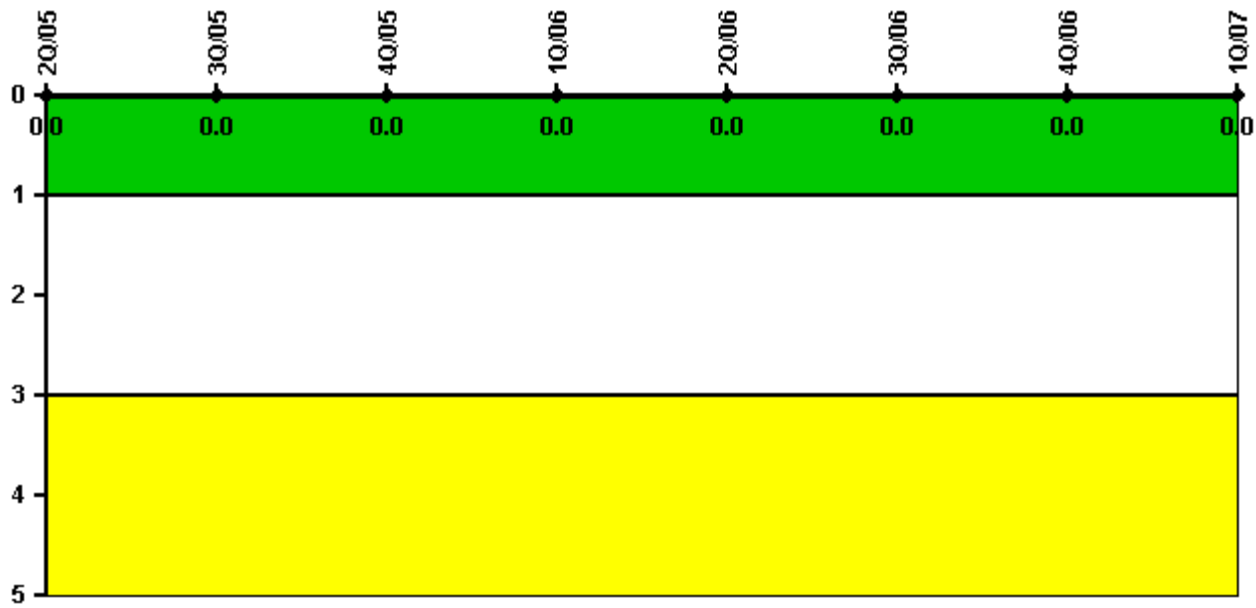
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

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

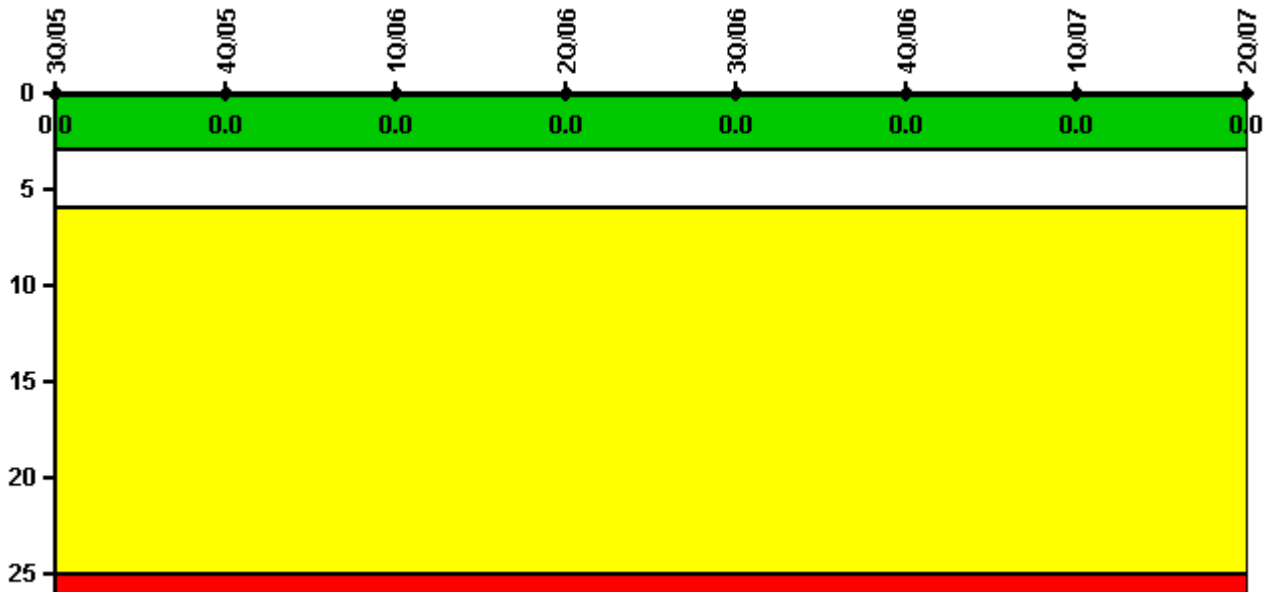
Last Modified: June 1, 2007

Surry 1

2Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



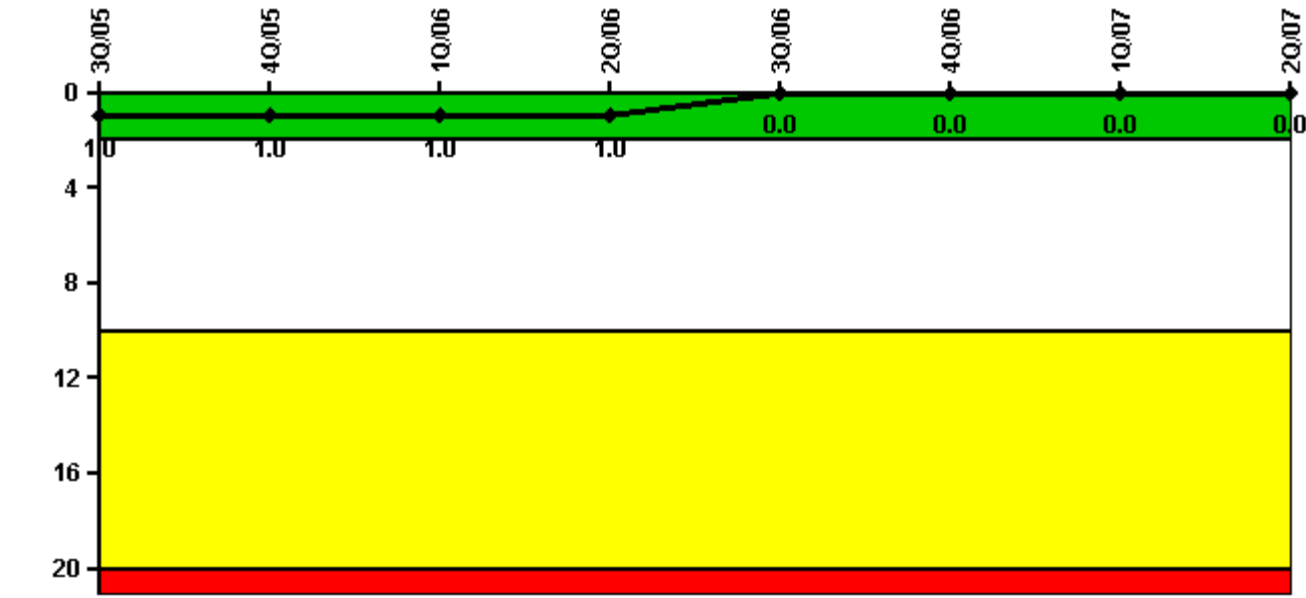
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	1964.0	2160.0	1413.5	2208.0	2209.0	2133.5	2184.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



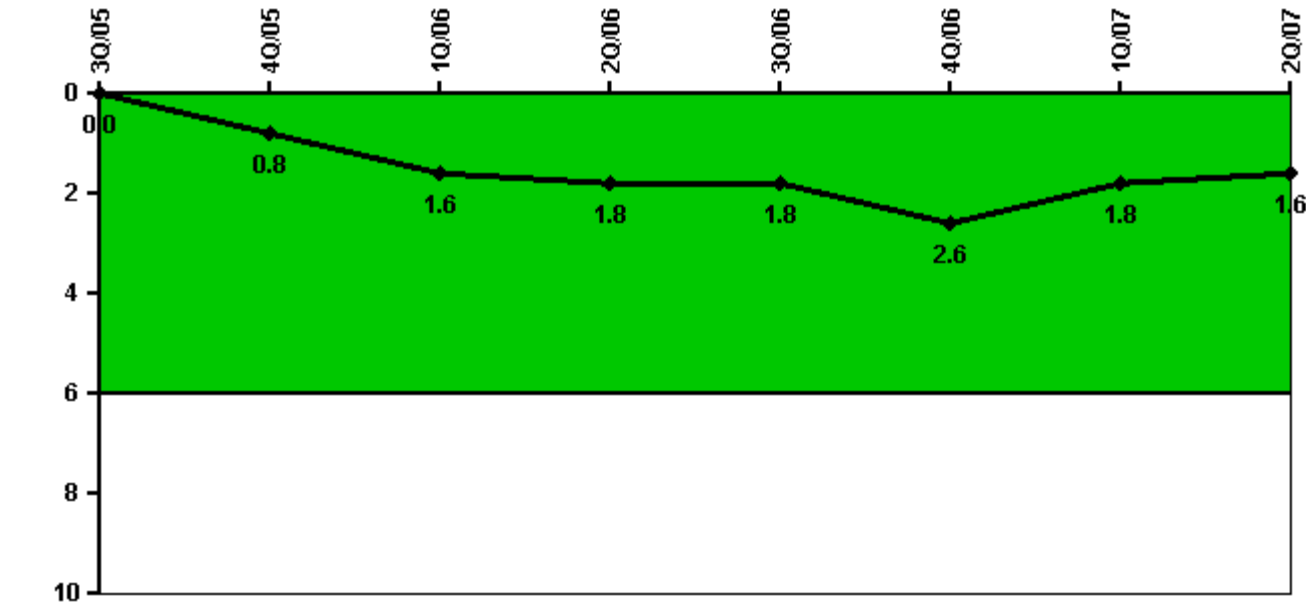
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



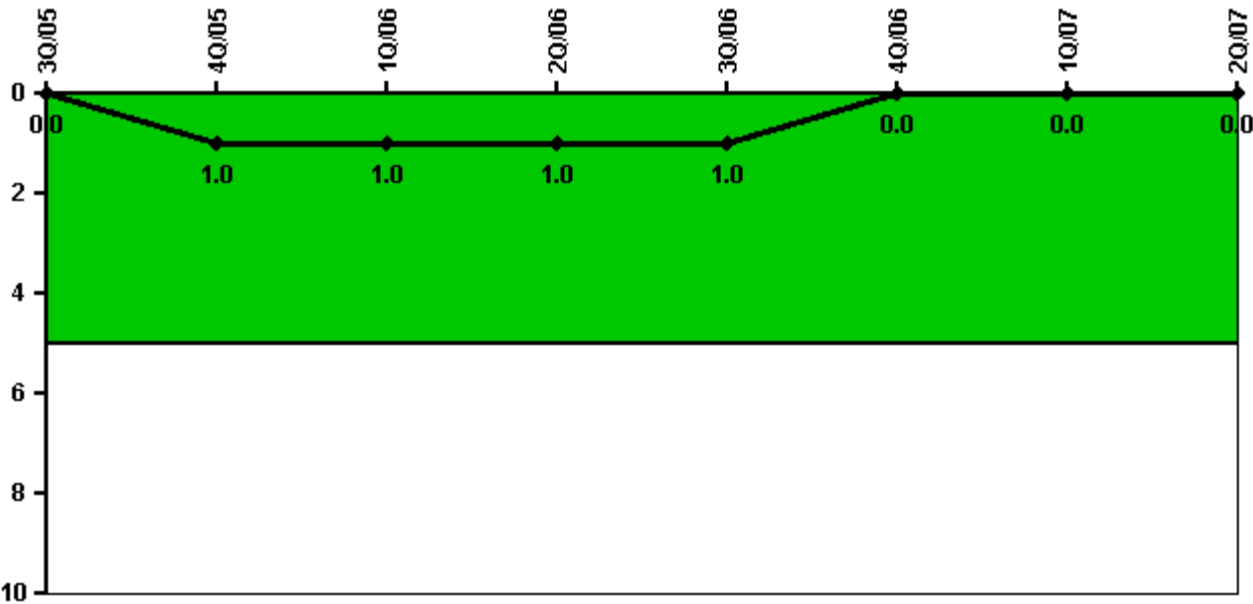
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned power changes	0	1.0	1.0	0	0	2.0	0	0
Critical hours	2208.0	1964.0	2160.0	1413.5	2208.0	2209.0	2133.5	2184.0
Indicator value	0	0.8	1.6	1.8	1.8	2.6	1.8	1.6

Licensee Comments: none

Safety System Functional Failures (PWR)



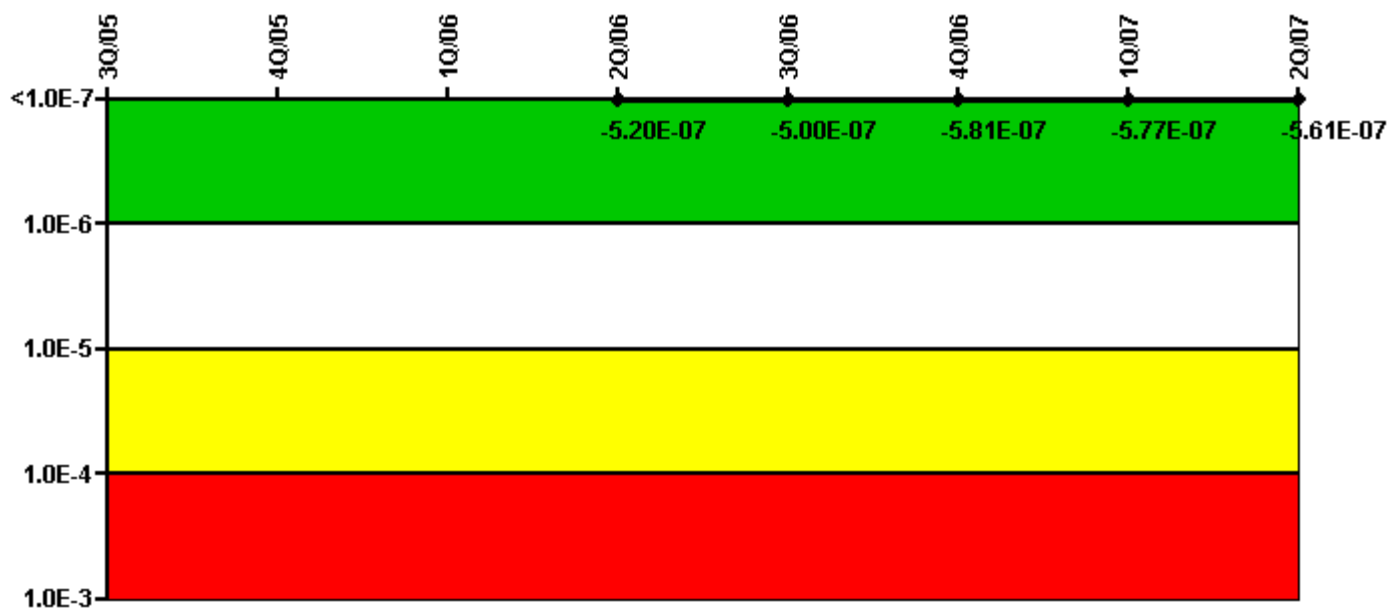
Thresholds: White > 5.0

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	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



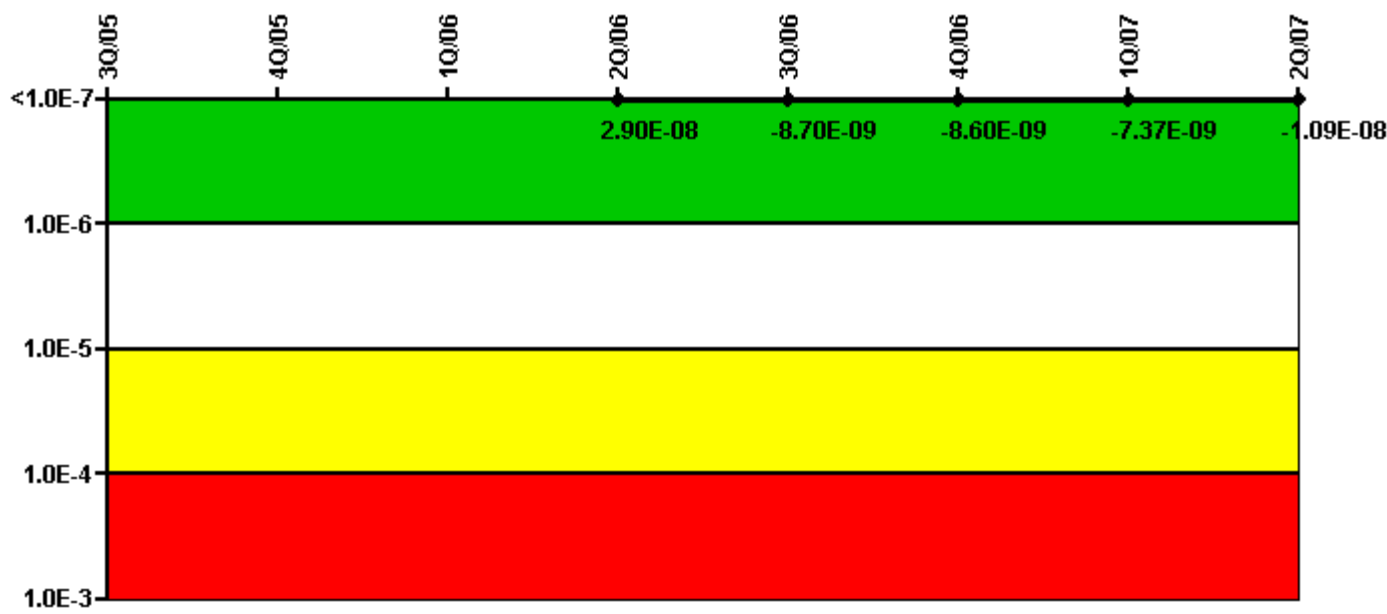
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ΔCDF)				5.00E-08	6.00E-08	5.90E-08	5.30E-08	5.90E-08
URI (ΔCDF)				-5.70E-07	-5.60E-07	-6.40E-07	-6.30E-07	-6.20E-07
PLE				NO	NO	NO	NO	NO
Indicator value				-5.20E-07	-5.00E-07	-5.81E-07	-5.77E-07	-5.61E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



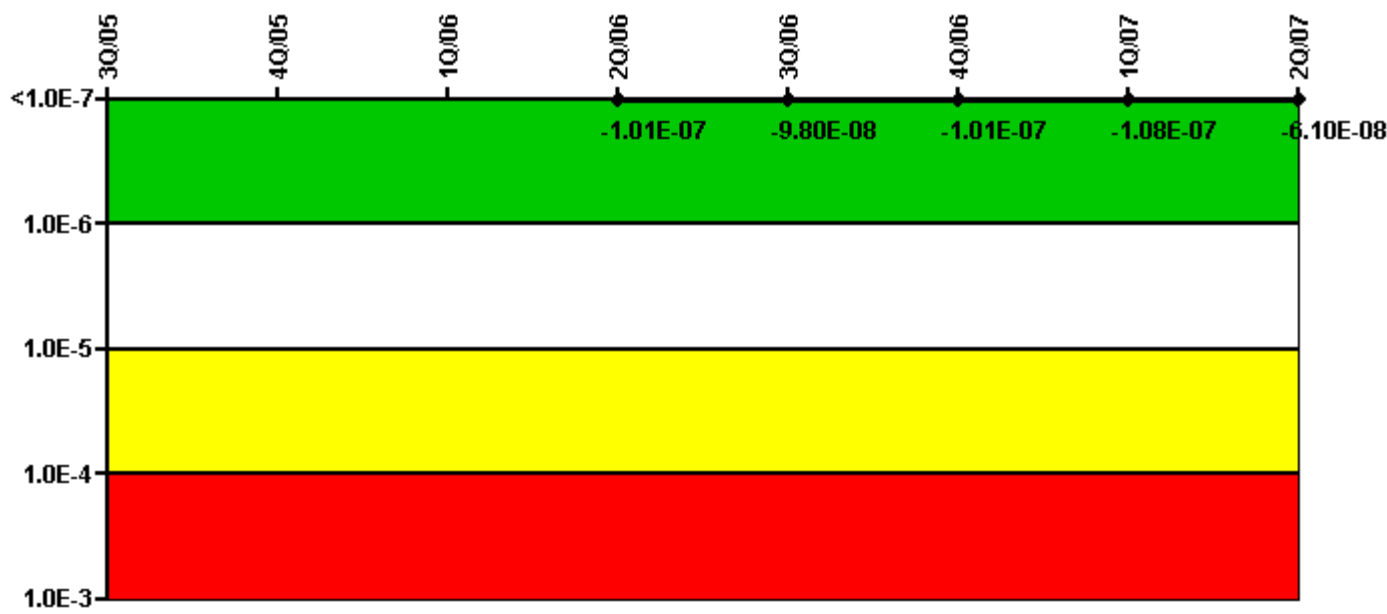
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)				-1.00E-09	-2.30E-09	-2.30E-09	-7.70E-10	-9.20E-10
URI (ΔCDF)				3.00E-08	-6.40E-09	-6.30E-09	-6.60E-09	-1.00E-08
PLE				NO	NO	NO	NO	NO
Indicator value				2.90E-08	-8.70E-09	-8.60E-09	-7.37E-09	-1.09E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



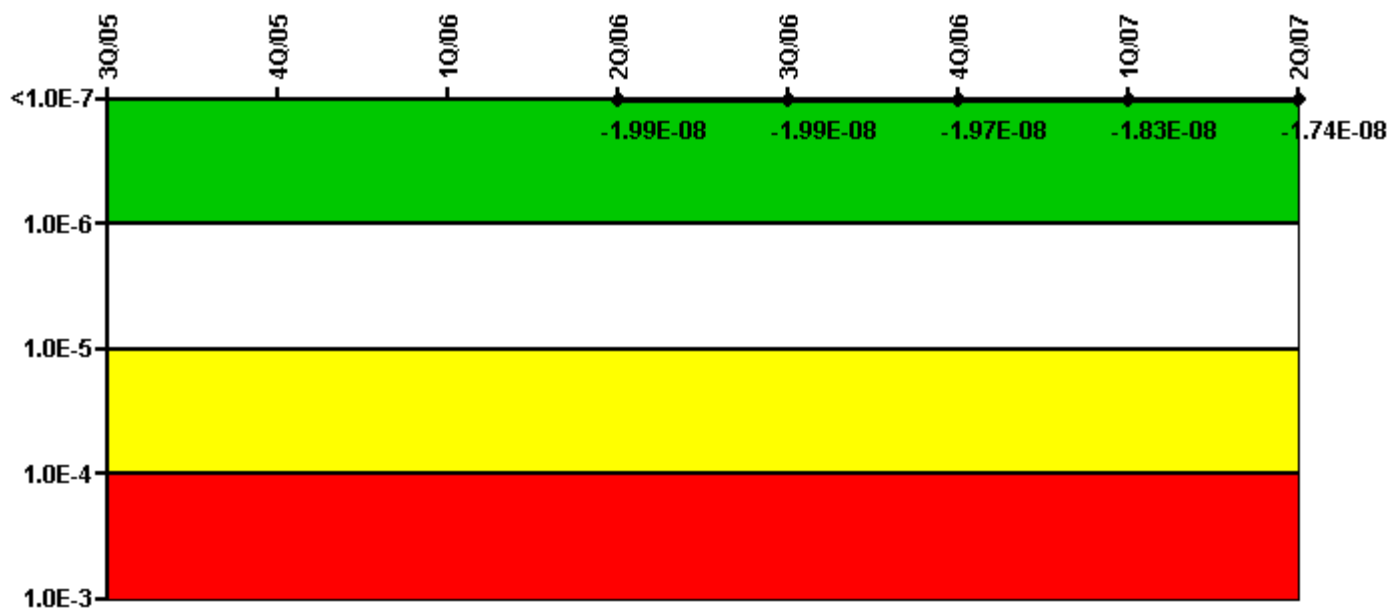
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ΔCDF)				8.70E-09	1.20E-08	-6.30E-10	-8.10E-09	3.90E-08
URI (ΔCDF)				-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07
PLE				NO	NO	NO	NO	NO
Indicator value				-1.01E-07	-9.80E-08	-1.01E-07	-1.08E-07	-6.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



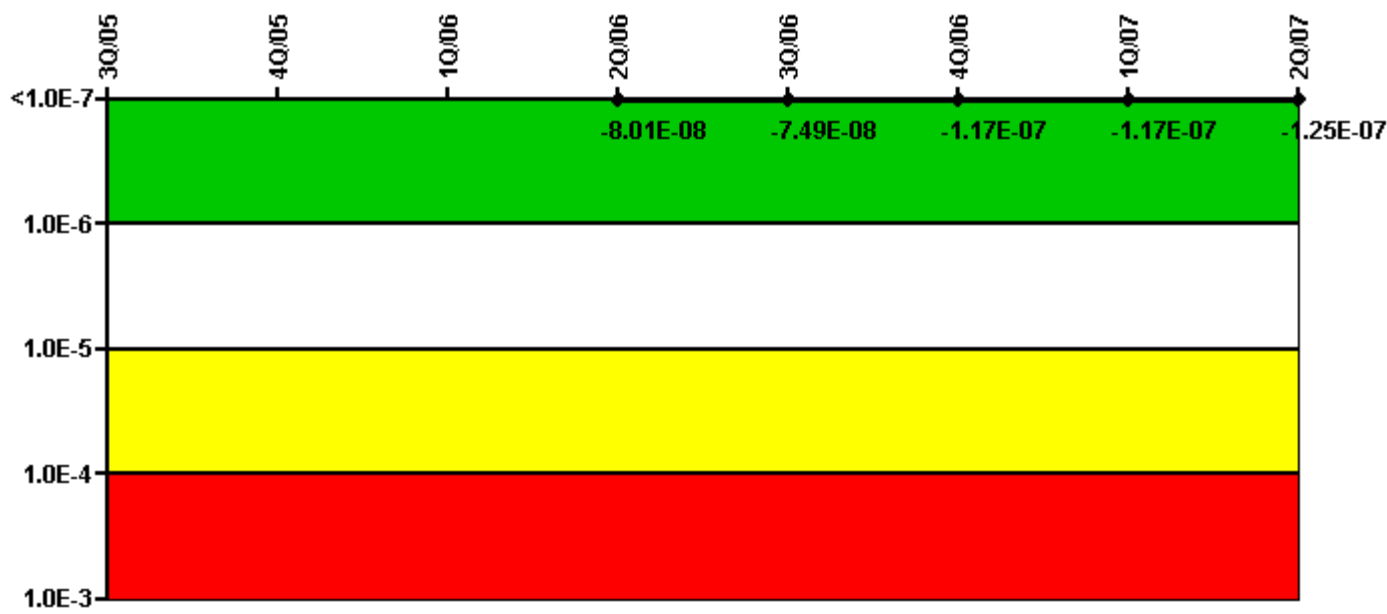
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ΔCDF)				-4.90E-09	-4.90E-09	-4.70E-09	-3.30E-09	-3.40E-09
URI (ΔCDF)				-1.50E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.40E-08
PLE				NO	NO	NO	NO	NO
Indicator value				-1.99E-08	-1.99E-08	-1.97E-08	-1.83E-08	-1.74E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



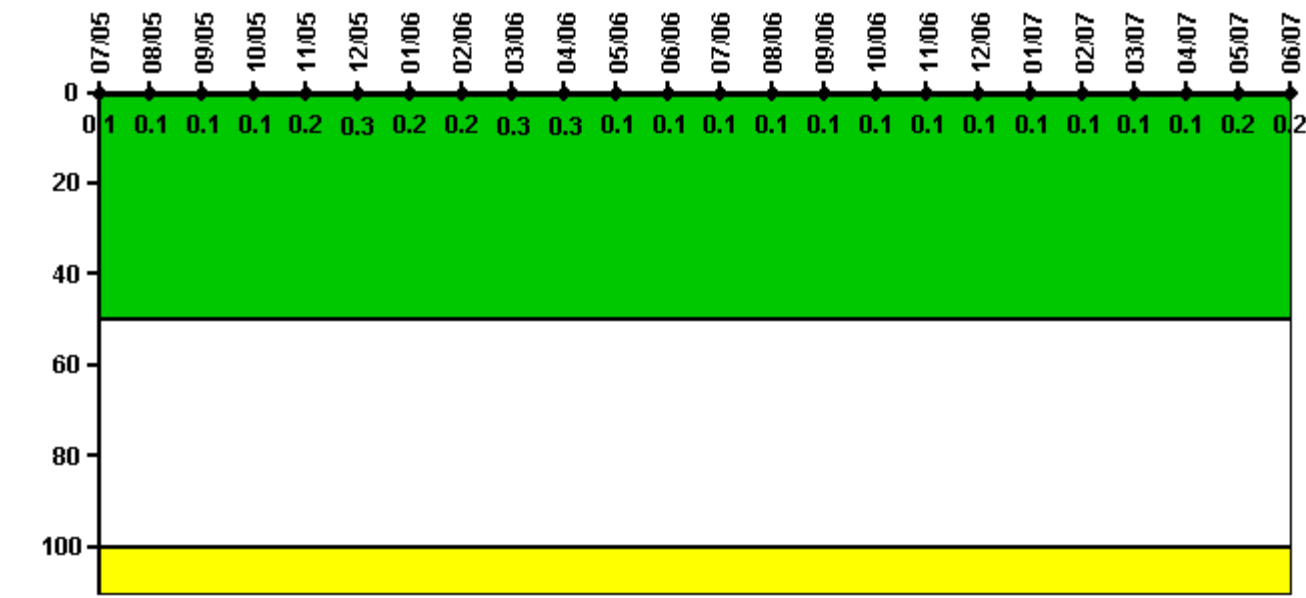
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)				1.90E-09	3.10E-09	2.70E-09	2.70E-09	4.80E-09
URI (ΔCDF)				-8.20E-08	-7.80E-08	-1.20E-07	-1.20E-07	-1.30E-07
PLE				NO	NO	NO	NO	NO
Indicator value				-8.01E-08	-7.49E-08	-1.17E-07	-1.17E-07	-1.25E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

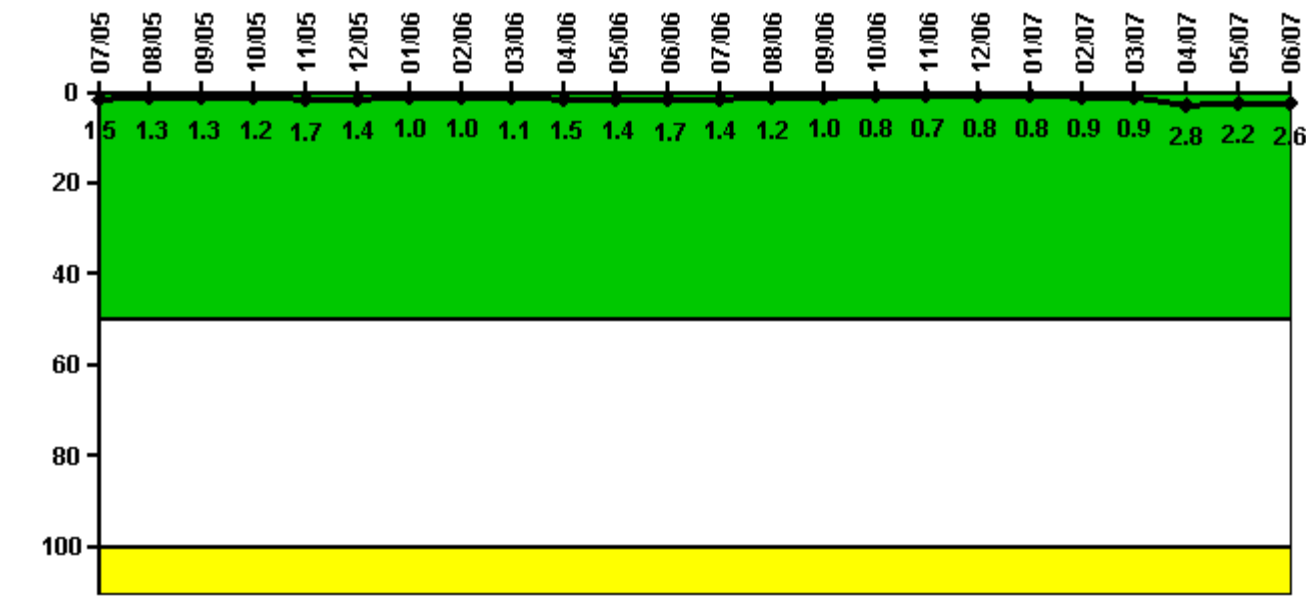
Notes

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	0.001460	0.001350	0.001480	0.001460	0.001630	0.003080	0.001720	0.001750	0.002760	0.003370	0.000813	0.001140
Technical specification limit	1.0	1.0	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	0.2	0.3	0.2	0.2	0.3	0.3	0.1	0.1

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	0.000901	0.000990	0.001120	0.001060	0.001120	0.001180	0.001220	0.001300	0.001420	0.001430	0.001560	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

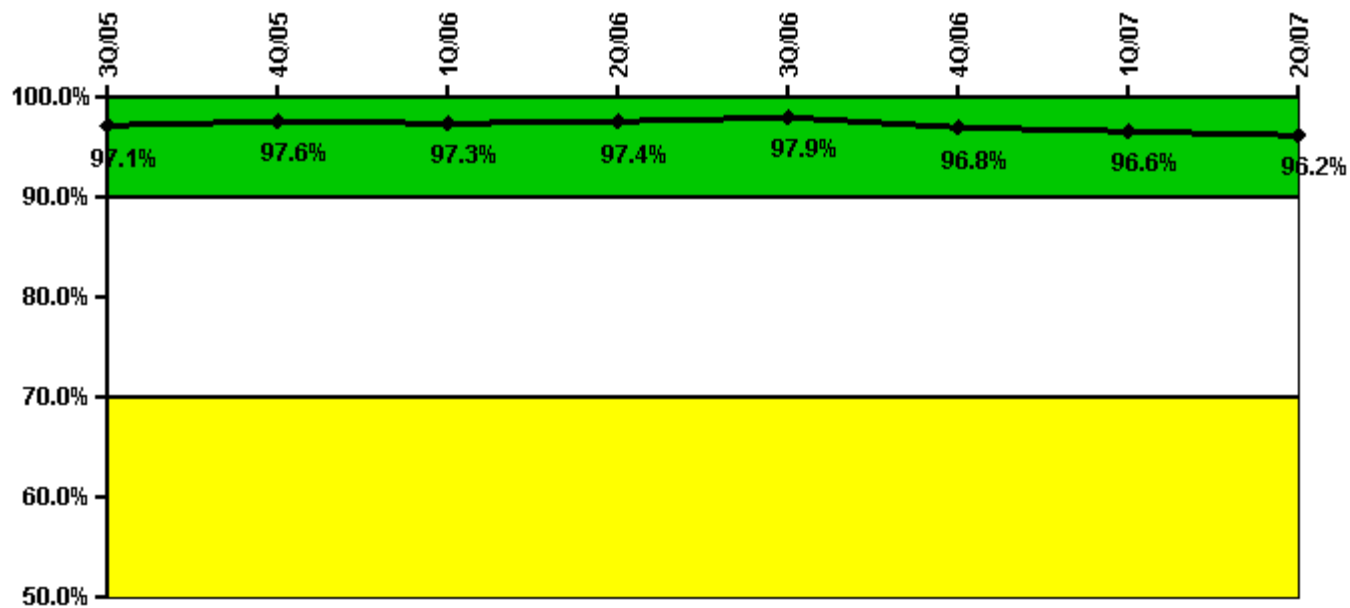
Notes

Reactor Coolant System Leakage	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06
Maximum leakage	0.150	0.130	0.130	0.120	0.170	0.140	0.100	0.100	0.110	0.150	0.140	0.170
Technical specification limit	10.0	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	1.3	1.3	1.2	1.7	1.4	1.0	1.0	1.1	1.5	1.4	1.7

Reactor Coolant System Leakage	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum leakage	0.140	0.120	0.100	0.080	0.070	0.080	0.080	0.090	0.090	0.280	0.220	0.260
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.4	1.2	1.0	0.8	0.7	0.8	0.8	0.9	0.9	2.8	2.2	2.6

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

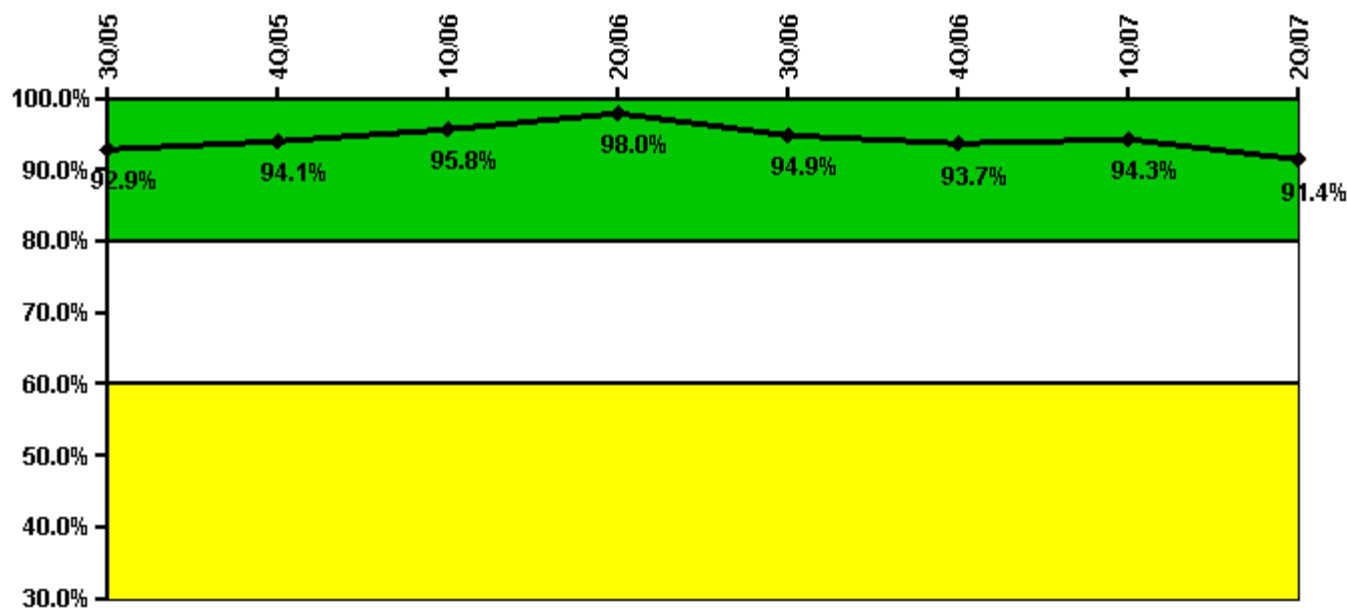
Notes

Drill/Exercise Performance	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful opportunities	29.0	27.0	34.0	22.0	31.0	1.0	32.0	25.0
Total opportunities	29.0	27.0	35.0	23.0	32.0	3.0	34.0	26.0
Indicator value	97.1%	97.6%	97.3%	97.4%	97.9%	96.8%	96.6%	96.2%

Licensee Comments:

2Q/07: A self-evaluation revealed an opportunity count inaccuracy for January 2007. Data was corrected with no change in color.

ERO Drill Participation



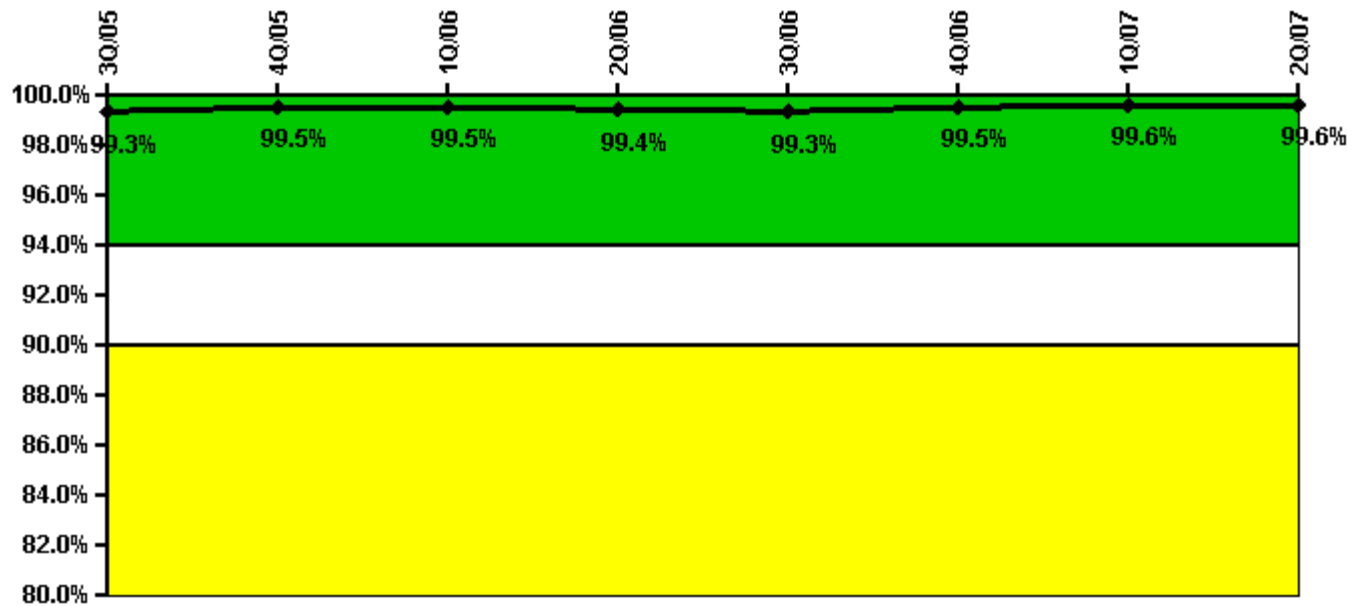
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Participating Key personnel	144.0	144.0	137.0	145.0	149.0	149.0	164.0	159.0
Total Key personnel	155.0	153.0	143.0	148.0	157.0	159.0	174.0	174.0
Indicator value	92.9%	94.1%	95.8%	98.0%	94.9%	93.7%	94.3%	91.4%

Licensee Comments: none

Alert & Notification System



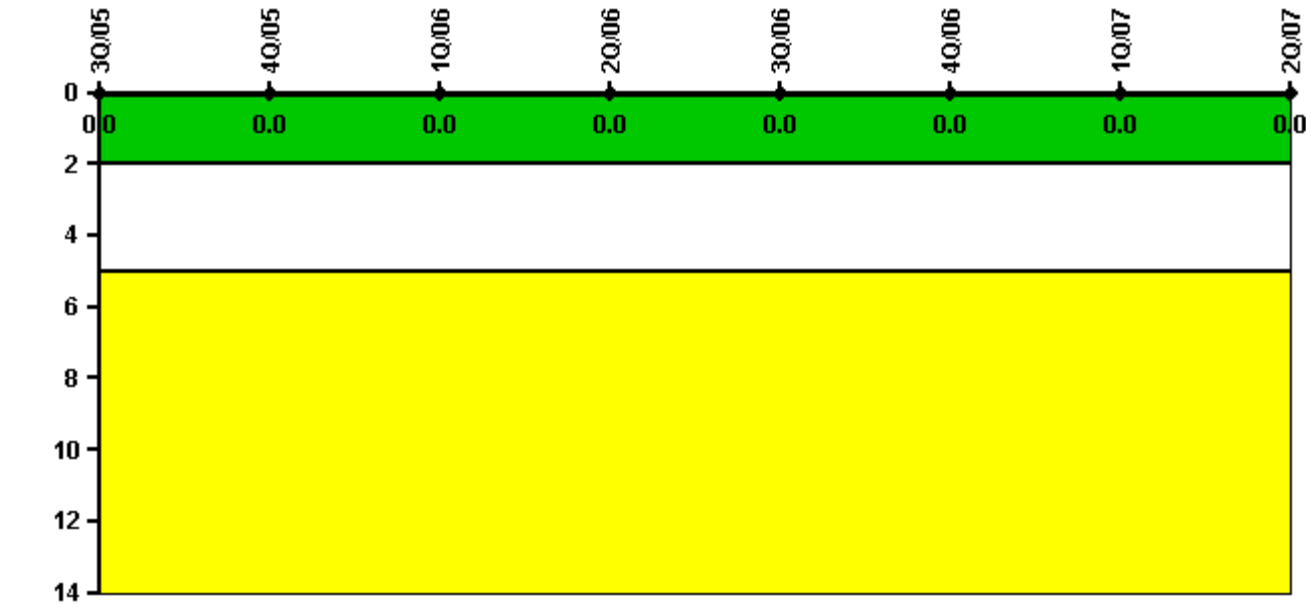
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful siren-tests	541	472	542	473	539	476	543	474
Total sirens-tests	544	476	544	476	544	476	544	476
Indicator value	99.3%	99.5%	99.5%	99.4%	99.3%	99.5%	99.6%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



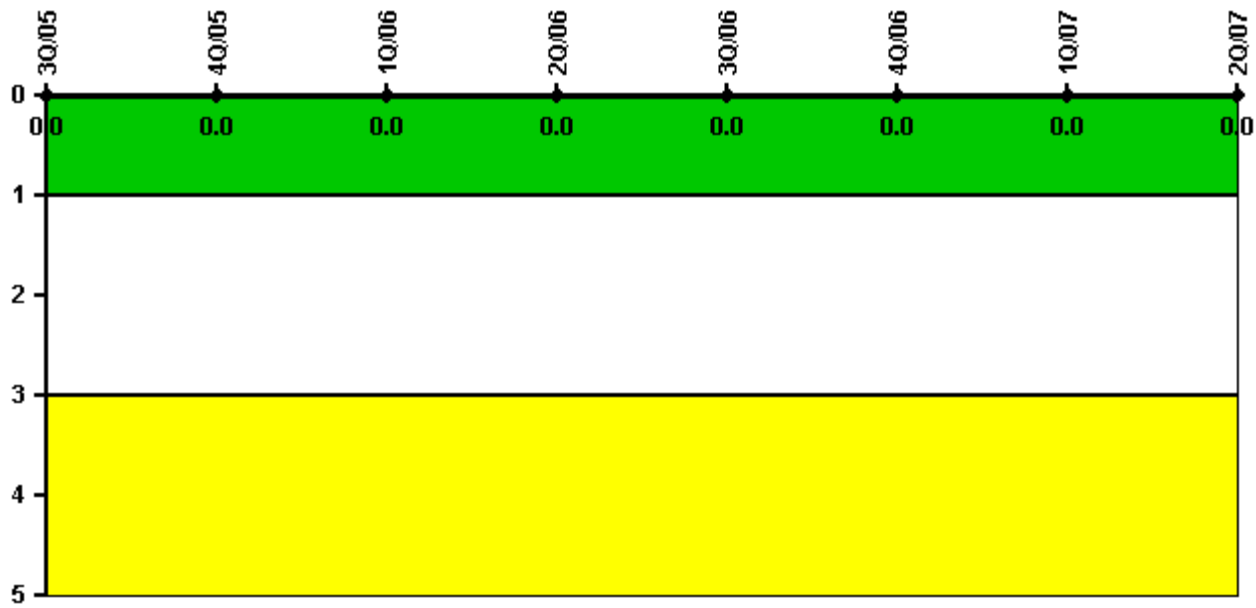
Thresholds: White > 2.0 Yellow > 5.0

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.

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

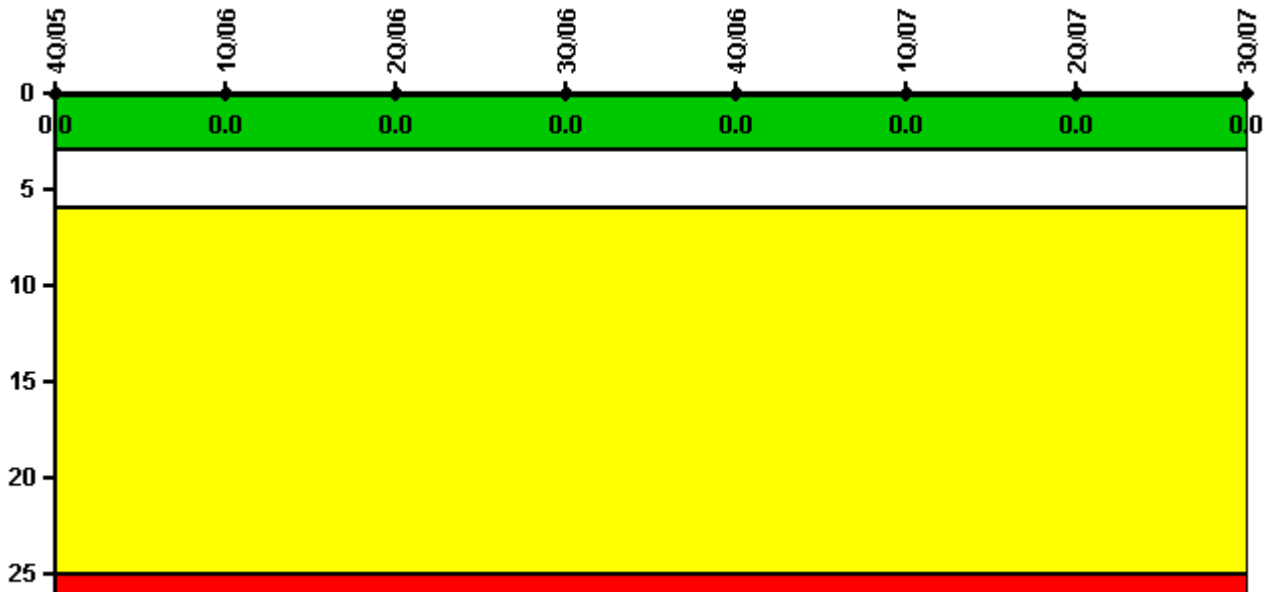
Last Modified: August 6, 2007

Surry 1

3Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



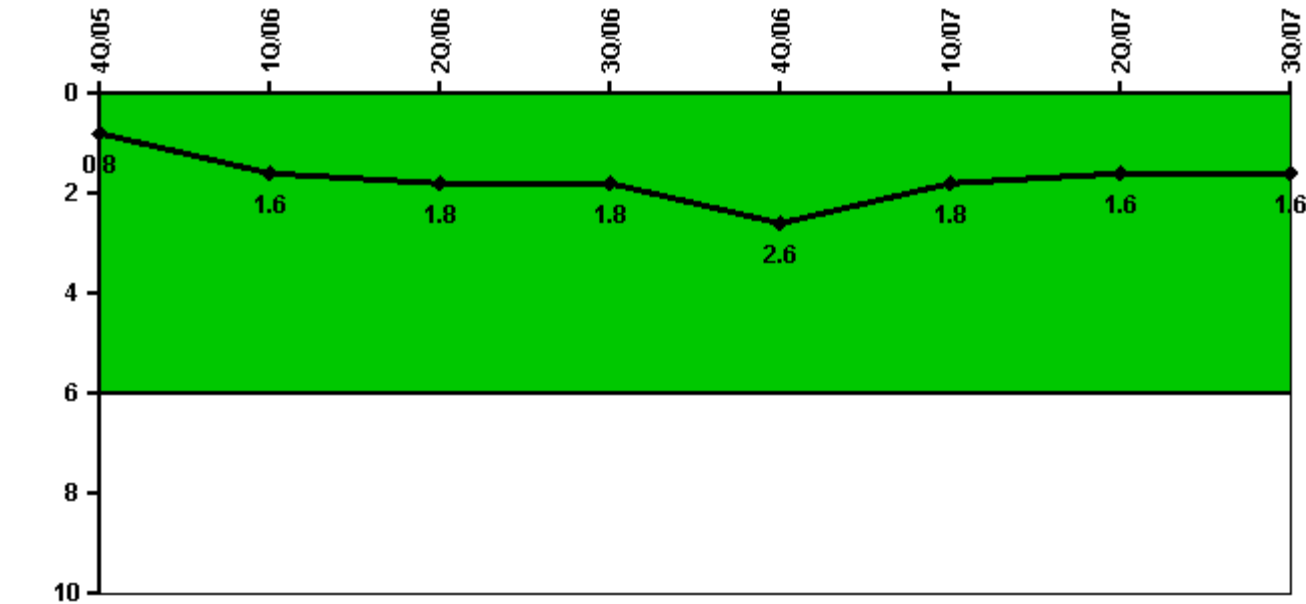
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1964.0	2160.0	1413.5	2208.0	2209.0	2133.5	2184.0	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



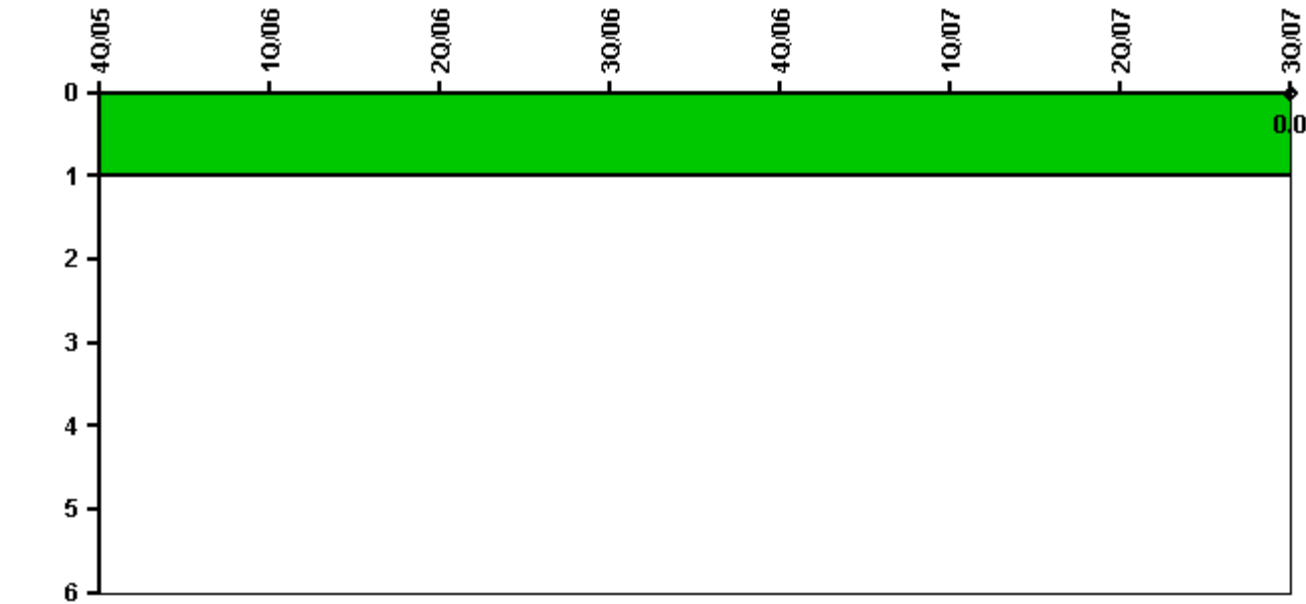
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned power changes	1.0	1.0	0	0	2.0	0	0	0
Critical hours	1964.0	2160.0	1413.5	2208.0	2209.0	2133.5	2184.0	2208.0
Indicator value	0.8	1.6	1.8	1.8	2.6	1.8	1.6	1.6

Licensee Comments: none

Unplanned Scrams with Complications



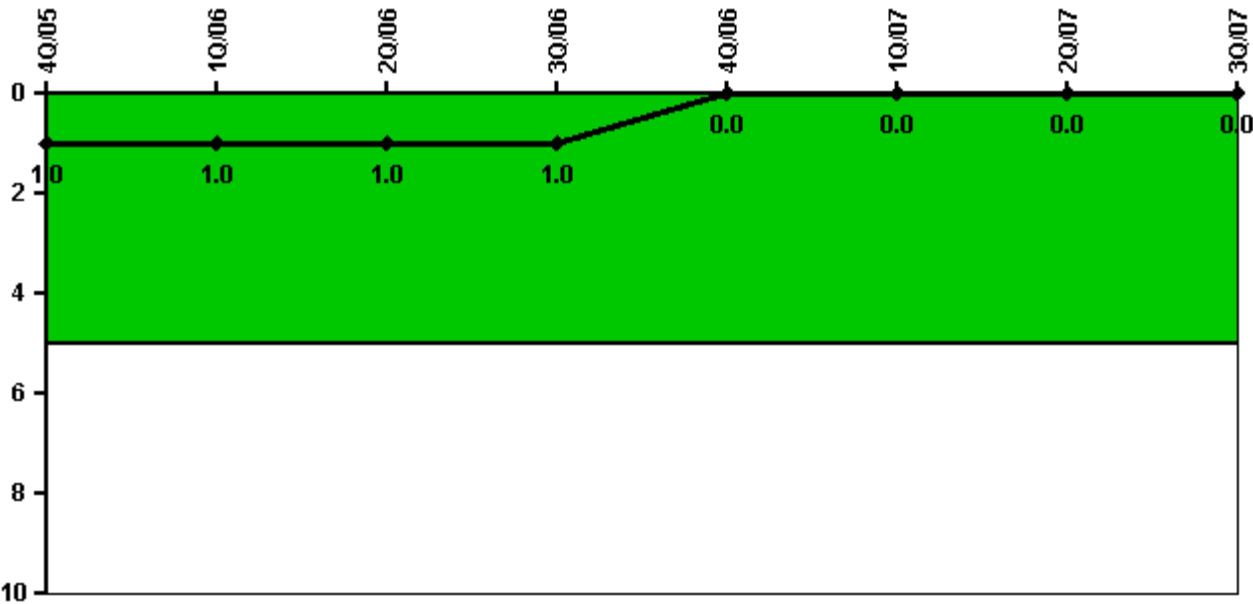
Thresholds: White > 1.0

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)



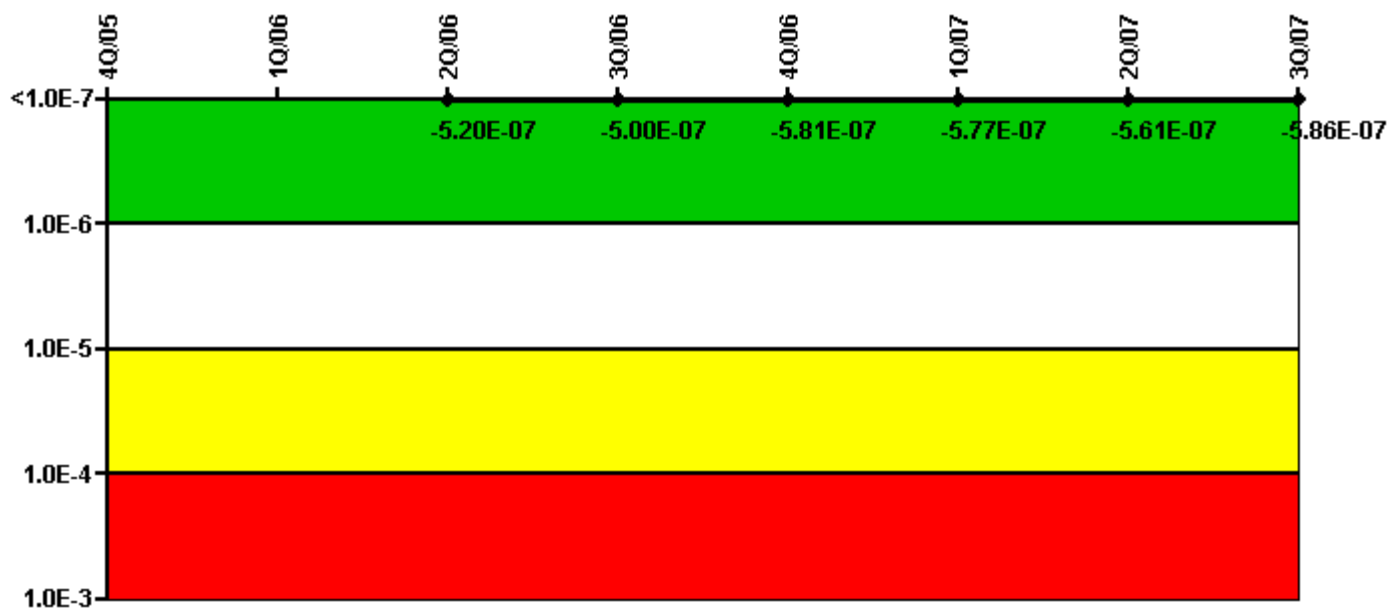
Thresholds: White > 5.0

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



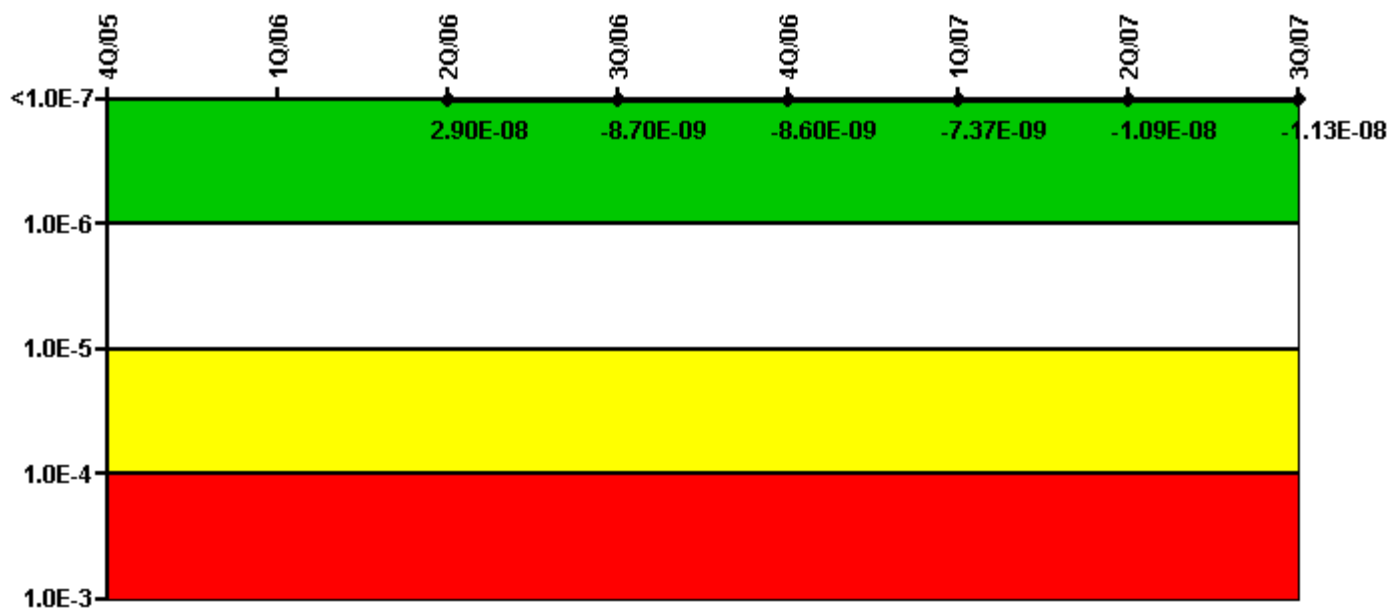
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			5.00E-08	6.00E-08	5.90E-08	5.30E-08	5.90E-08	1.40E-08
URI (ΔCDF)			-5.70E-07	-5.60E-07	-6.40E-07	-6.30E-07	-6.20E-07	-6.00E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-5.20E-07	-5.00E-07	-5.81E-07	-5.77E-07	-5.61E-07	-5.86E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



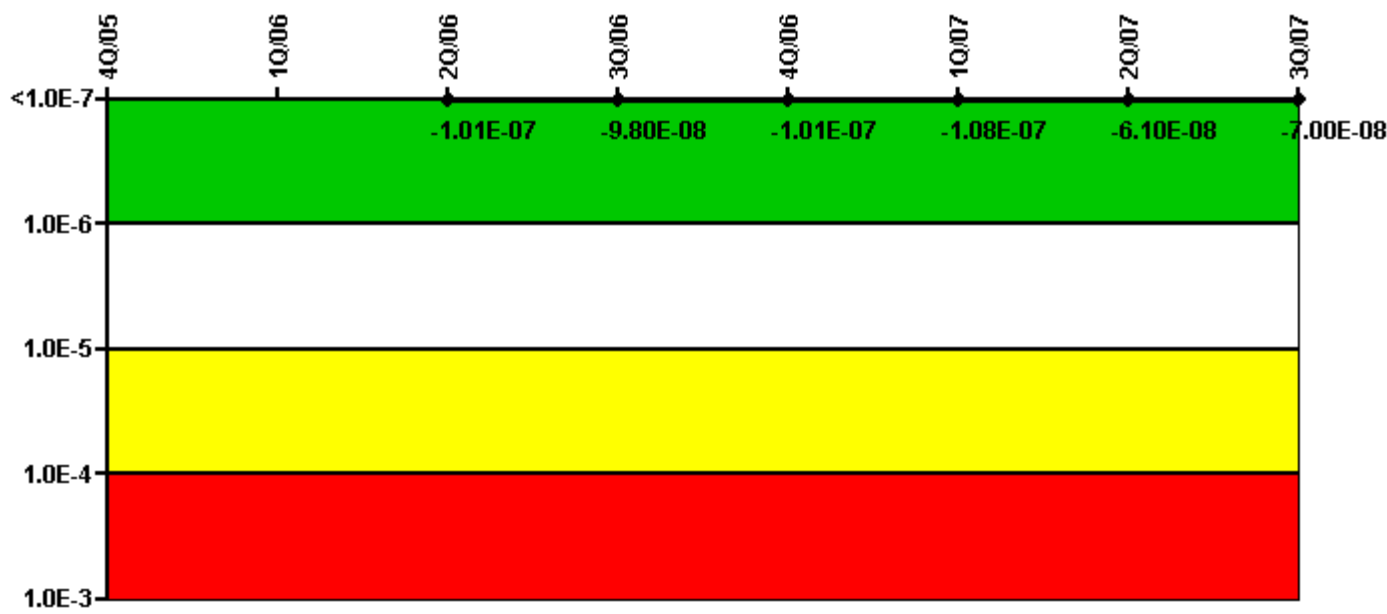
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)			-1.00E-09	-2.30E-09	-2.30E-09	-7.70E-10	-9.20E-10	-1.30E-09
URI (ΔCDF)			3.00E-08	-6.40E-09	-6.30E-09	-6.60E-09	-1.00E-08	-1.00E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			2.90E-08	-8.70E-09	-8.60E-09	-7.37E-09	-1.09E-08	-1.13E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



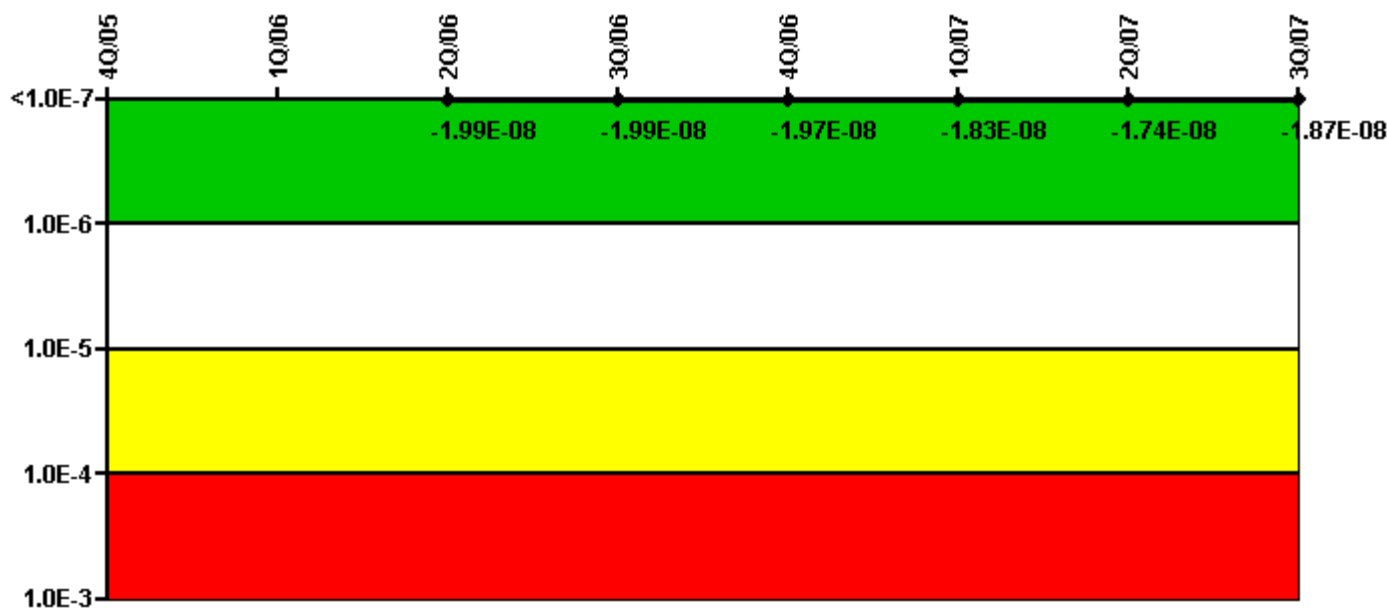
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			8.70E-09	1.20E-08	-6.30E-10	-8.10E-09	3.90E-08	4.00E-08
URI (ΔCDF)			-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.10E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-1.01E-07	-9.80E-08	-1.01E-07	-1.08E-07	-6.10E-08	-7.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



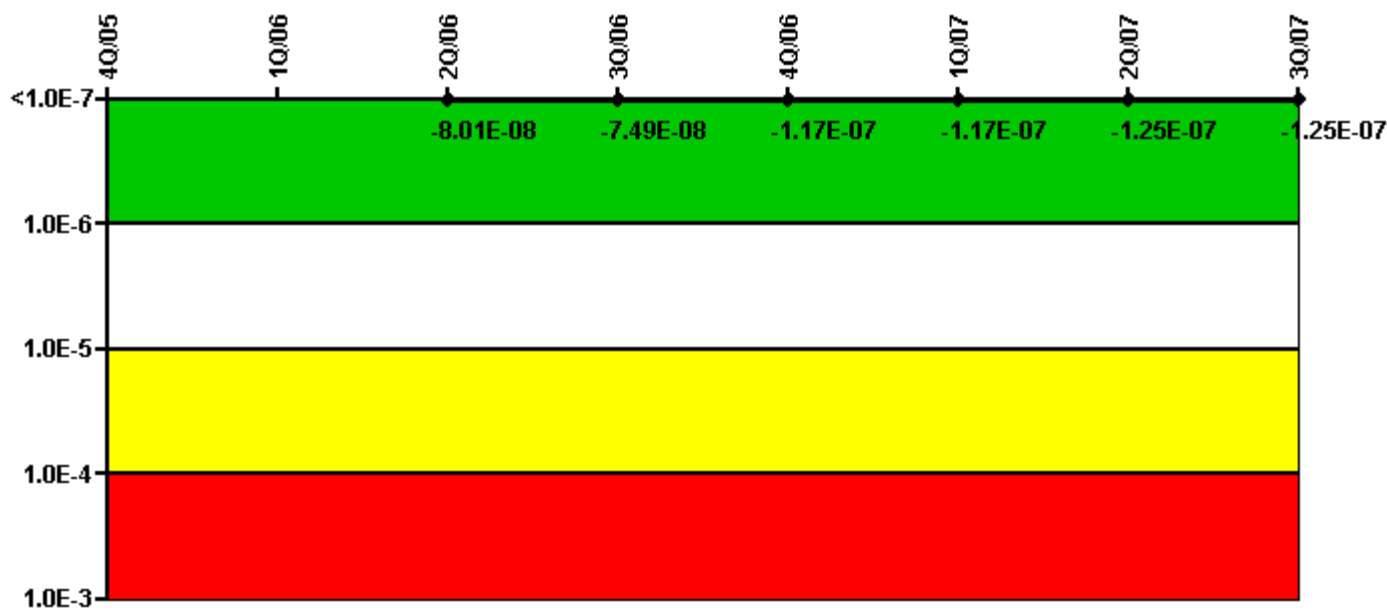
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			-4.90E-09	-4.90E-09	-4.70E-09	-3.30E-09	-3.40E-09	-4.70E-09
URI (ΔCDF)			-1.50E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.40E-08	-1.40E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-1.99E-08	-1.99E-08	-1.97E-08	-1.83E-08	-1.74E-08	-1.87E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



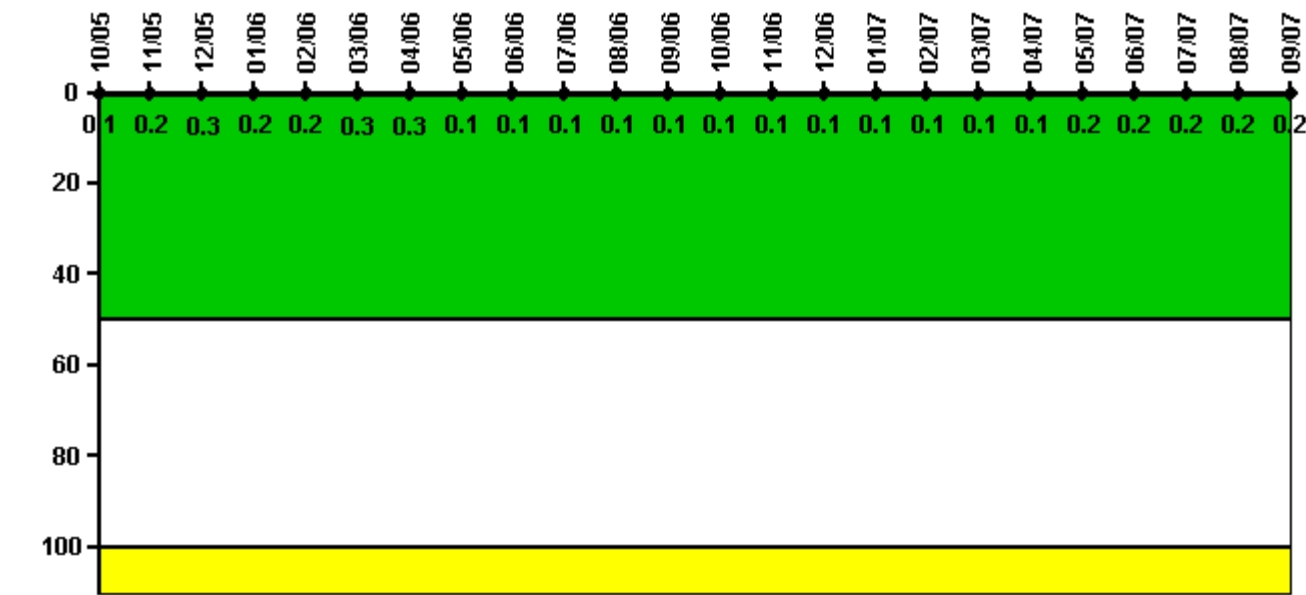
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)			1.90E-09	3.10E-09	2.70E-09	2.70E-09	4.80E-09	5.00E-09
URI (ΔCDF)			-8.20E-08	-7.80E-08	-1.20E-07	-1.20E-07	-1.30E-07	-1.30E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-8.01E-08	-7.49E-08	-1.17E-07	-1.17E-07	-1.25E-07	-1.25E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

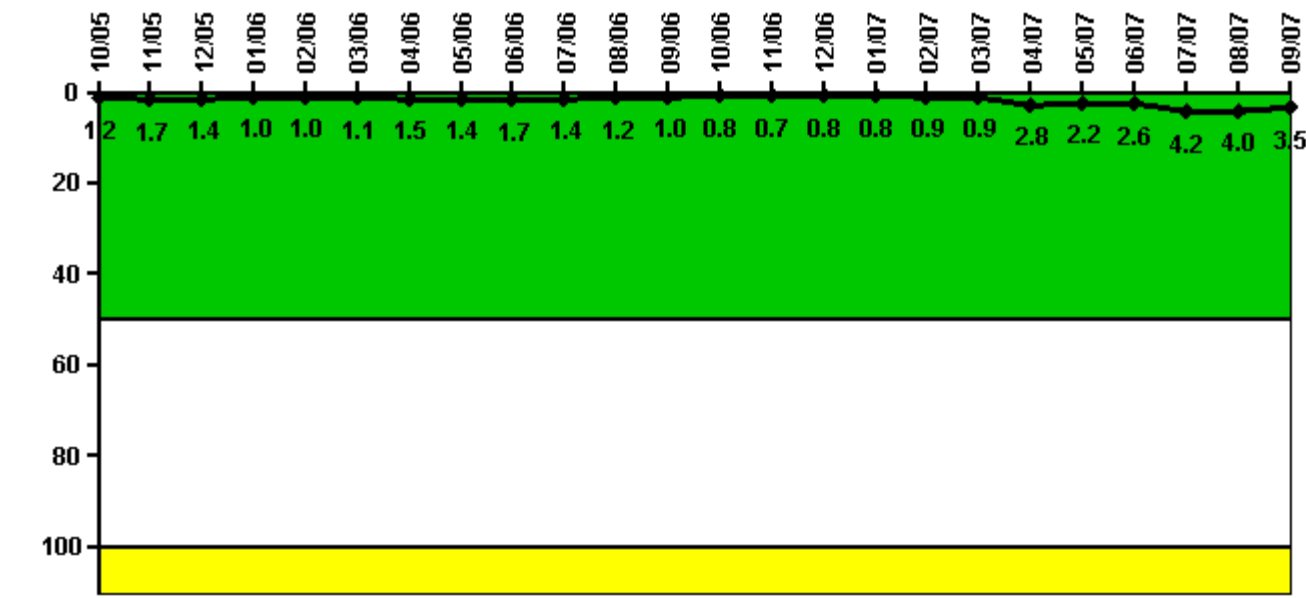
Notes

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	0.001460	0.001630	0.003080	0.001720	0.001750	0.002760	0.003370	0.000813	0.001140	0.000901	0.000990	0.001120
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.2	0.3	0.2	0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.1

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	0.001060	0.001120	0.001180	0.001220	0.001300	0.001420	0.001430	0.001560	0.001520	0.001620	0.002360	0.001630
Technical specification limit	1.0	1.0	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	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

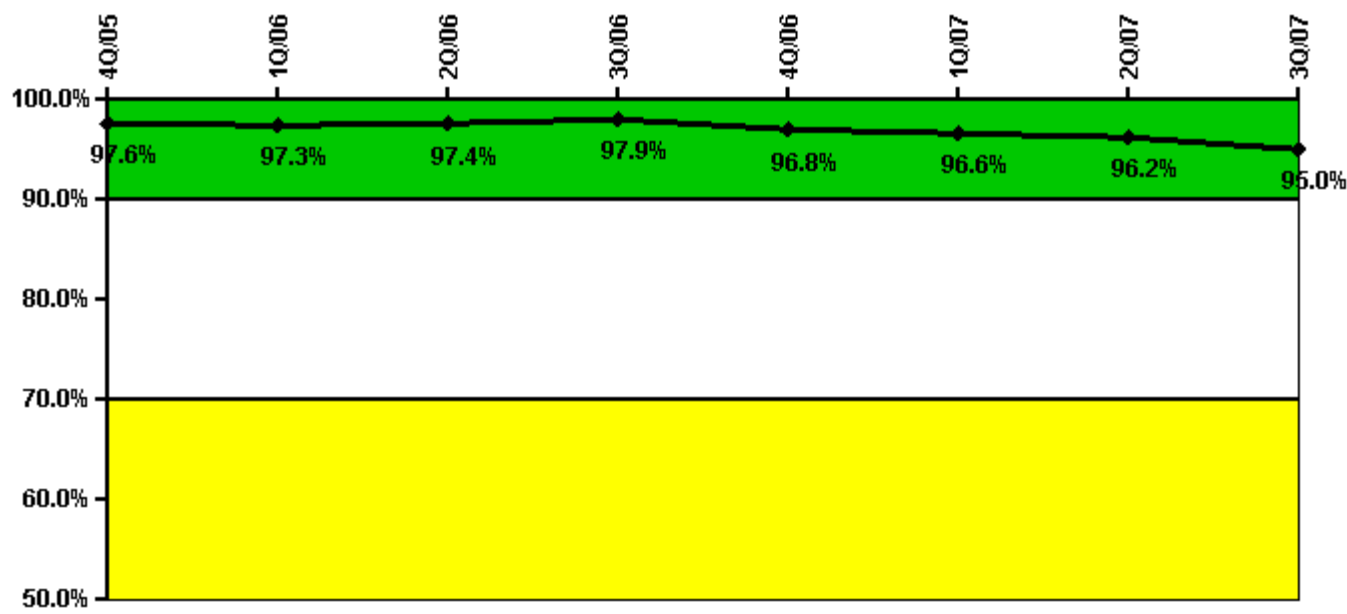
Notes

Reactor Coolant System Leakage	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06
Maximum leakage	0.120	0.170	0.140	0.100	0.100	0.110	0.150	0.140	0.170	0.140	0.120	0.100
Technical specification limit	10.0	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	1.7	1.4	1.0	1.0	1.1	1.5	1.4	1.7	1.4	1.2	1.0

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	0.080	0.070	0.080	0.080	0.090	0.090	0.280	0.220	0.260	0.420	0.400	0.350
Technical specification limit	10.0	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	0.7	0.8	0.8	0.9	0.9	2.8	2.2	2.6	4.2	4.0	3.5

Licensee Comments: none

Drill/Exercise Performance



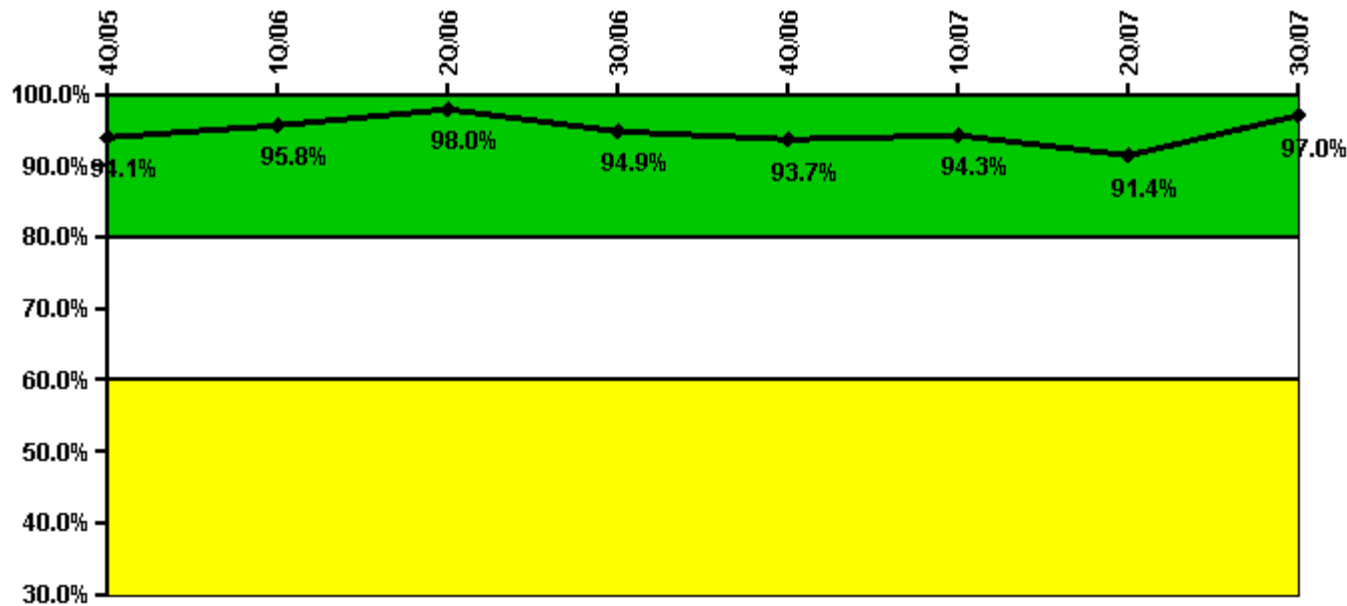
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful opportunities	27.0	34.0	22.0	31.0	1.0	32.0	25.0	18.0
Total opportunities	27.0	35.0	23.0	32.0	3.0	34.0	26.0	20.0
Indicator value	97.6%	97.3%	97.4%	97.9%	96.8%	96.6%	96.2%	95.0%

Licensee Comments: none

ERO Drill Participation



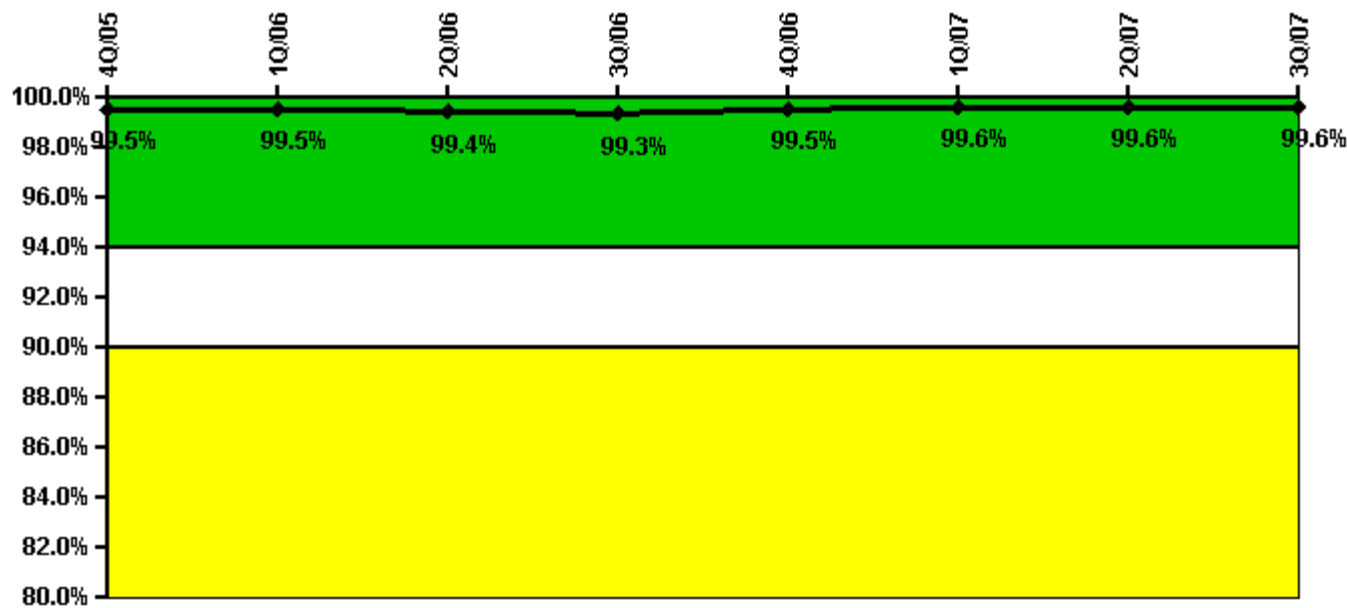
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Participating Key personnel	144.0	137.0	145.0	149.0	149.0	164.0	159.0	164.0
Total Key personnel	153.0	143.0	148.0	157.0	159.0	174.0	174.0	169.0
Indicator value	94.1%	95.8%	98.0%	94.9%	93.7%	94.3%	91.4%	97.0%

Licensee Comments: none

Alert & Notification System



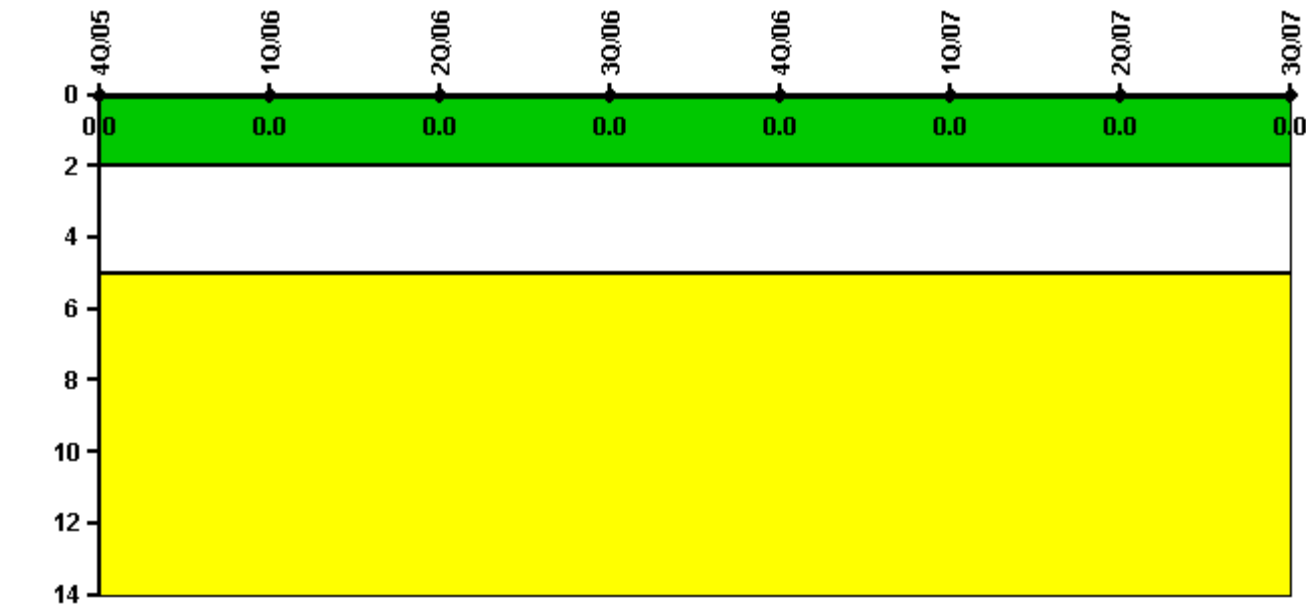
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful siren-tests	472	542	473	539	476	543	474	539
Total sirens-tests	476	544	476	544	476	544	476	544
Indicator value	99.5%	99.5%	99.4%	99.3%	99.5%	99.6%	99.6%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



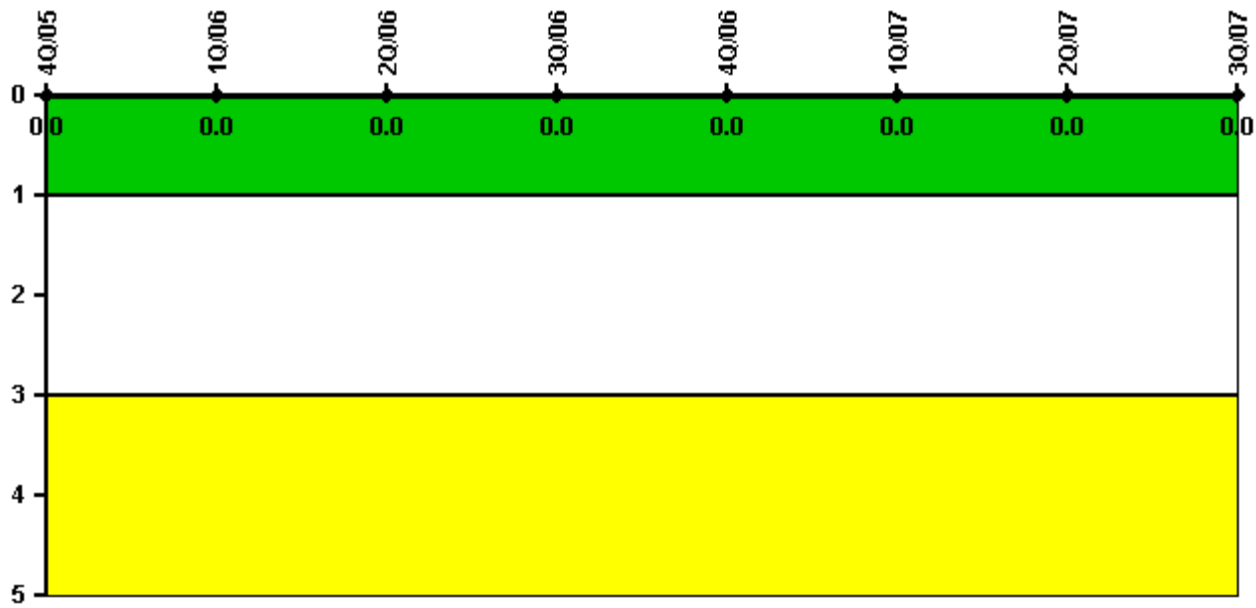
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

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

Last Modified: December 7, 2007

Surry 1

4Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



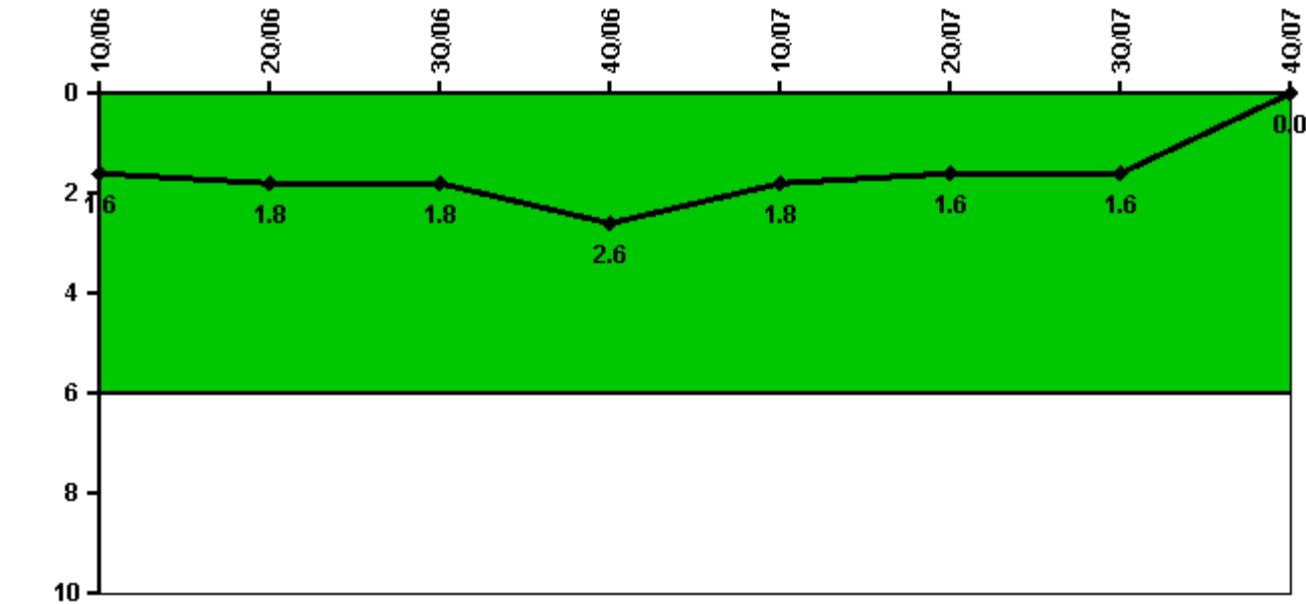
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2160.0	1413.5	2208.0	2209.0	2133.5	2184.0	2208.0	1236.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



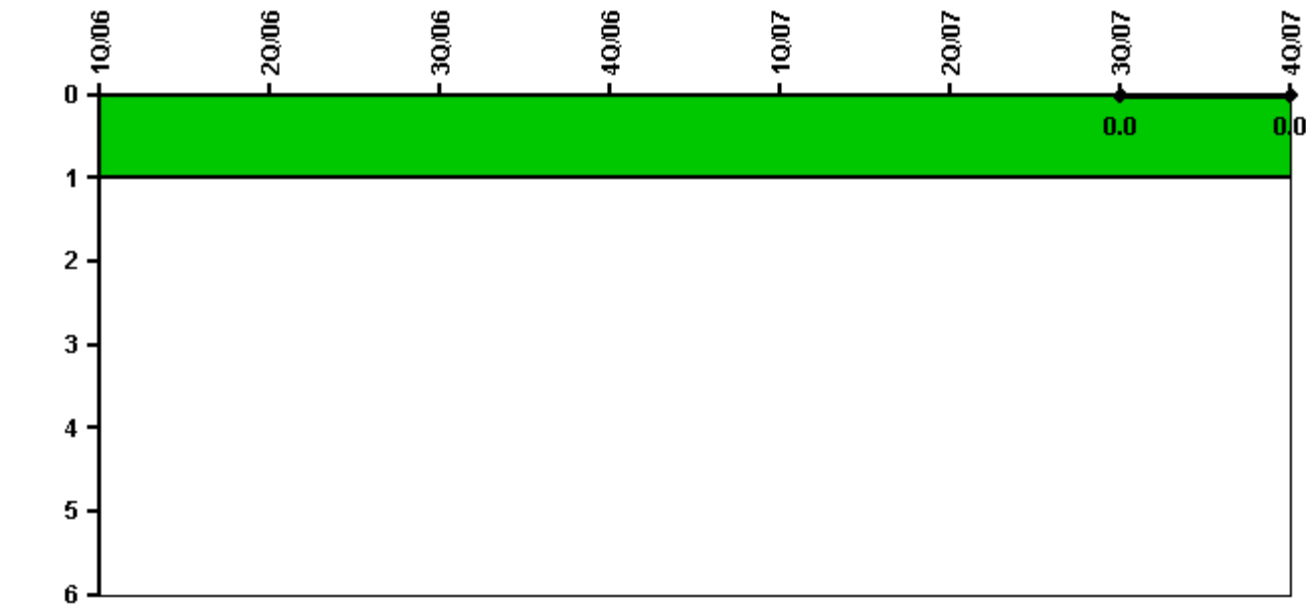
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned power changes	1.0	0	0	2.0	0	0	0	0
Critical hours	2160.0	1413.5	2208.0	2209.0	2133.5	2184.0	2208.0	1236.0
Indicator value	1.6	1.8	1.8	2.6	1.8	1.6	1.6	0

Licensee Comments: none

Unplanned Scrams with Complications



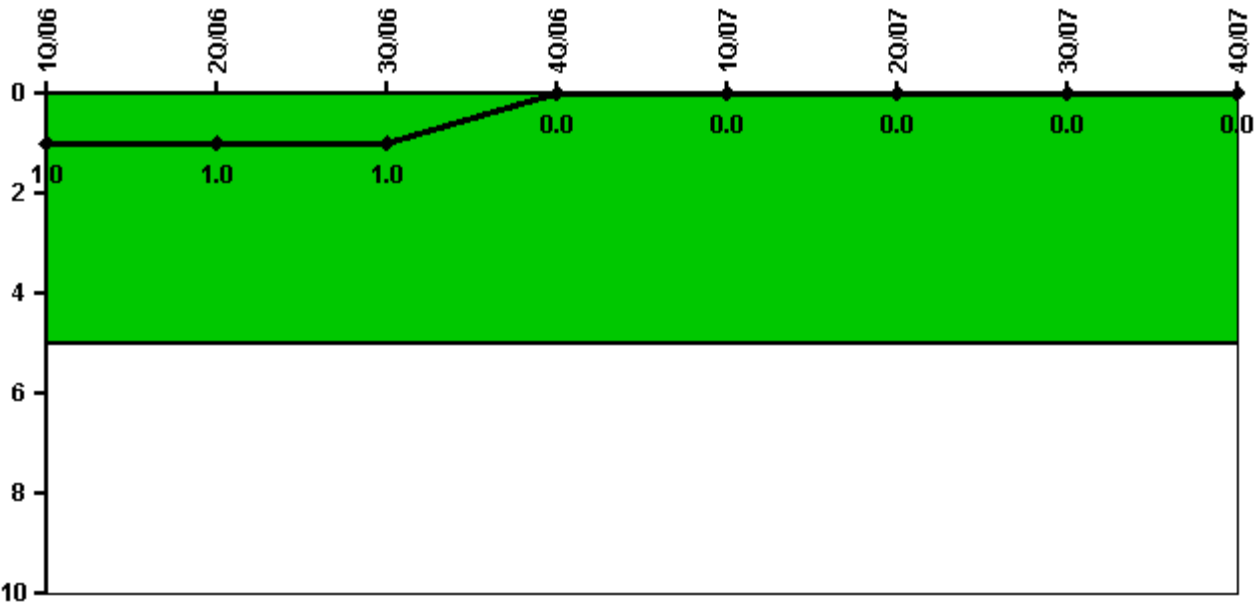
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



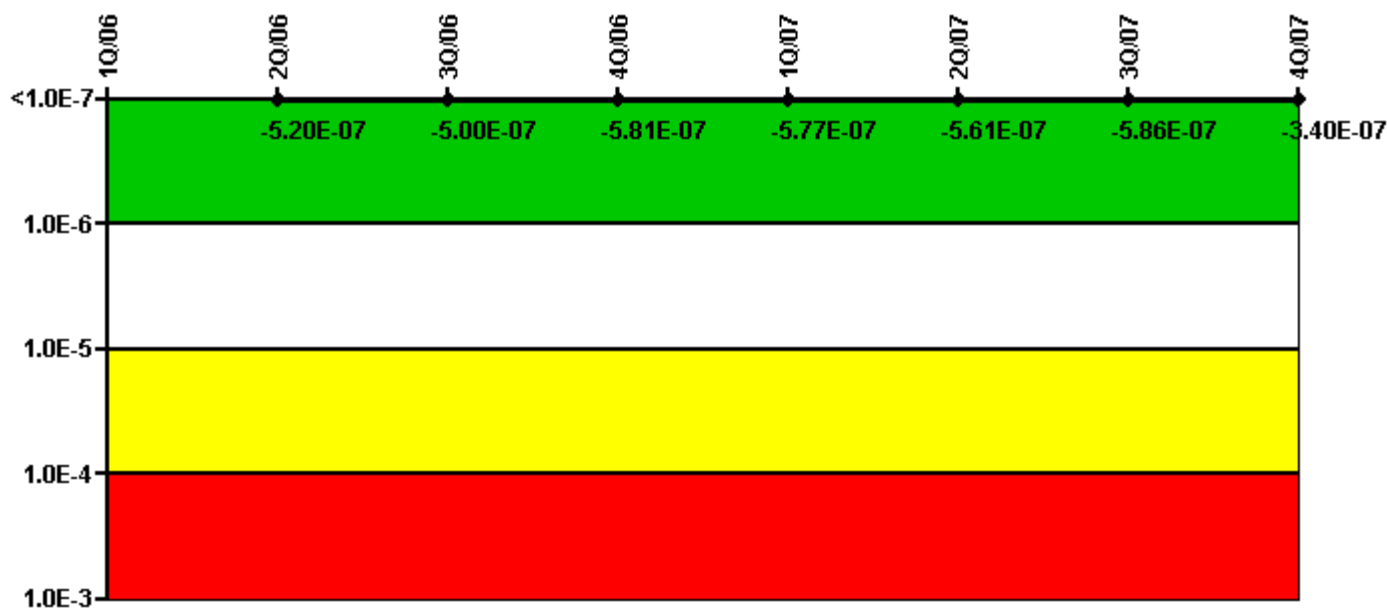
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

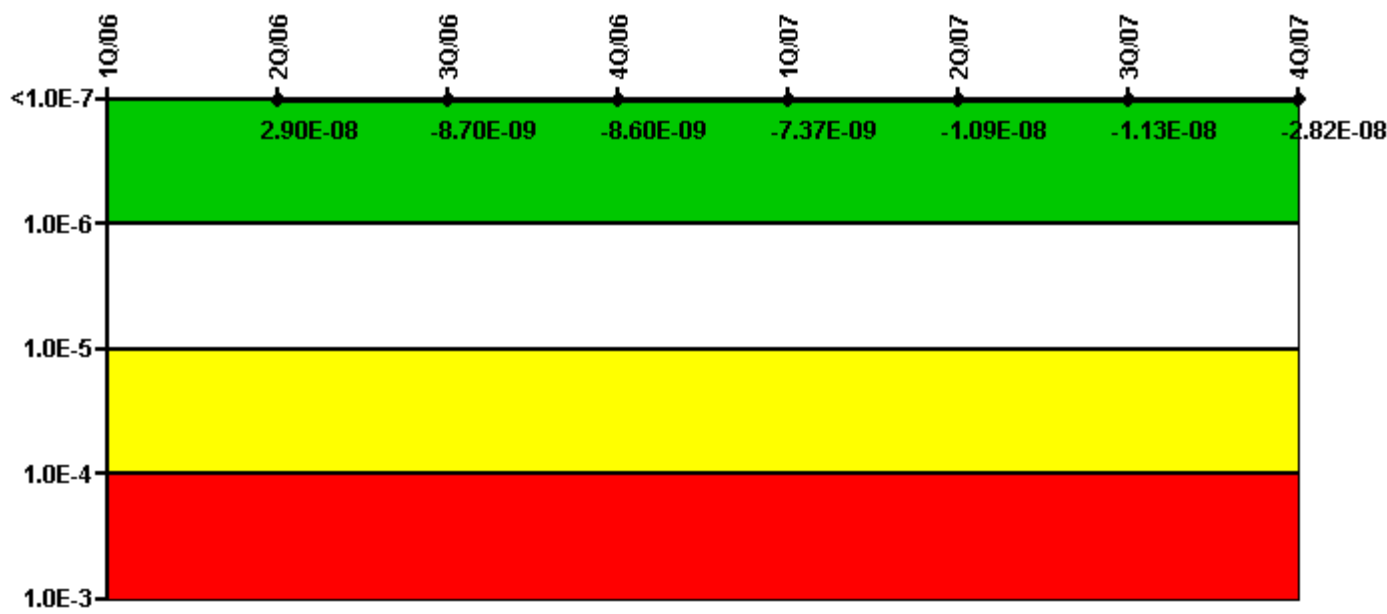
Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (ΔCDF)		5.00E-08	6.00E-08	5.90E-08	5.30E-08	5.90E-08	1.40E-08	1.00E-07
URI (ΔCDF)		-5.70E-07	-5.60E-07	-6.40E-07	-6.30E-07	-6.20E-07	-6.00E-07	-4.40E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-5.20E-07	-5.00E-07	-5.81E-07	-5.77E-07	-5.61E-07	-5.86E-07	-3.40E-07

Licensee Comments:

4Q/07: Changed PRA Parameter(s). PRA parameters were updated to reflect plant changes and improvements.

Mitigating Systems Performance Index, High Pressure Injection System



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

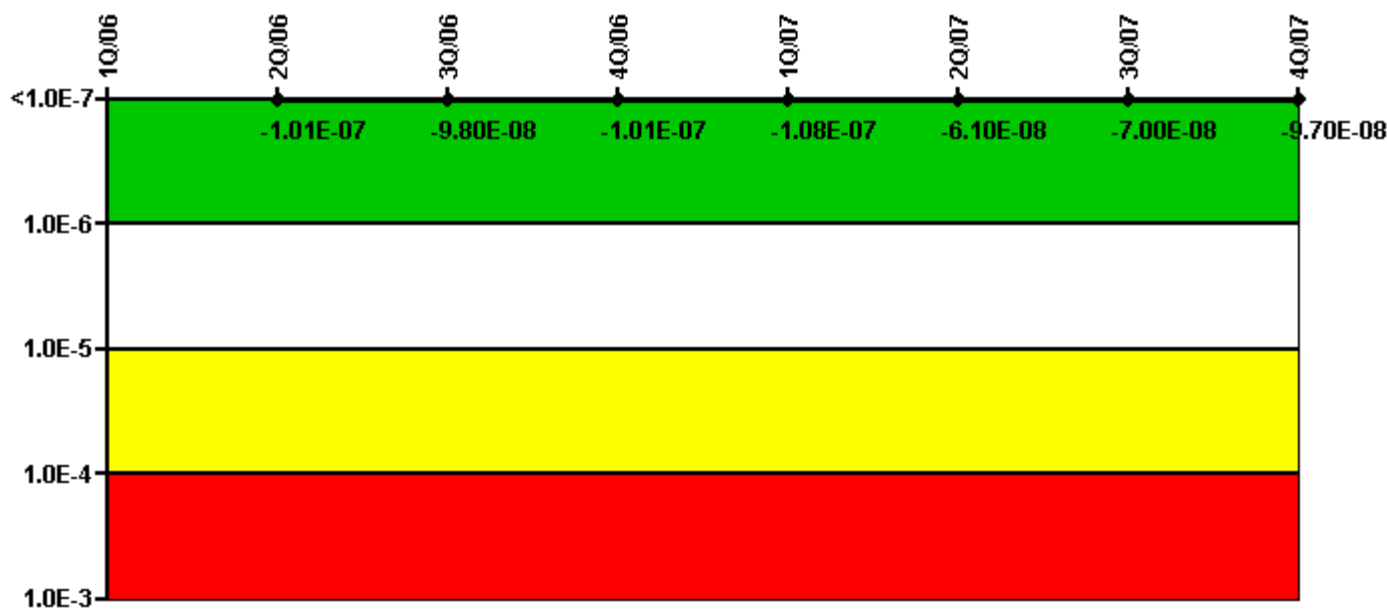
Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (ΔCDF)		-1.00E-09	-2.30E-09	-2.30E-09	-7.70E-10	-9.20E-10	-1.30E-09	-2.20E-09
URI (ΔCDF)		3.00E-08	-6.40E-09	-6.30E-09	-6.60E-09	-1.00E-08	-1.00E-08	-2.60E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		2.90E-08	-8.70E-09	-8.60E-09	-7.37E-09	-1.09E-08	-1.13E-08	-2.82E-08

Licensee Comments:

4Q/07: Changed PRA Parameter(s). PRA parameters were updated to reflect plant changes and improvements.

Mitigating Systems Performance Index, Heat Removal System



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

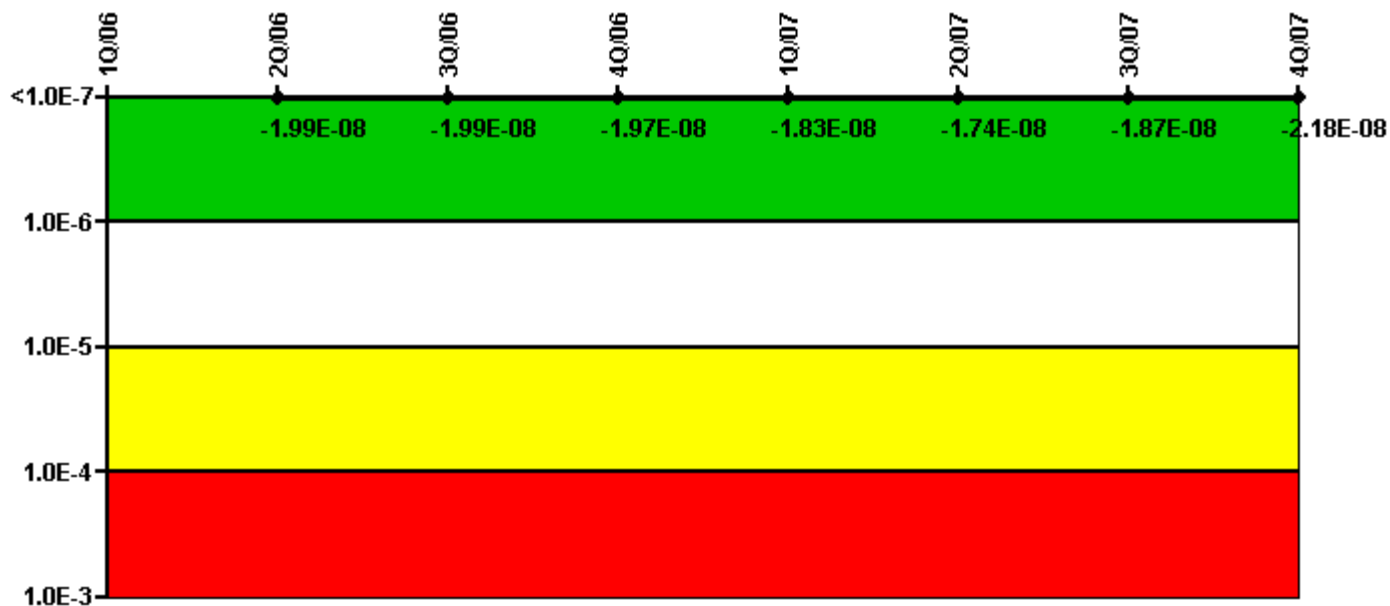
Notes

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)		8.70E-09	1.20E-08	-6.30E-10	-8.10E-09	3.90E-08	4.00E-08	2.30E-08
URI (ΔCDF)		-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.10E-07	-1.20E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-1.01E-07	-9.80E-08	-1.01E-07	-1.08E-07	-6.10E-08	-7.00E-08	-9.70E-08

Licensee Comments:

4Q/07: Changed PRA Parameter(s). PRA parameters were updated to reflect plant changes and improvements.

Mitigating Systems Performance Index, Residual Heat Removal System



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

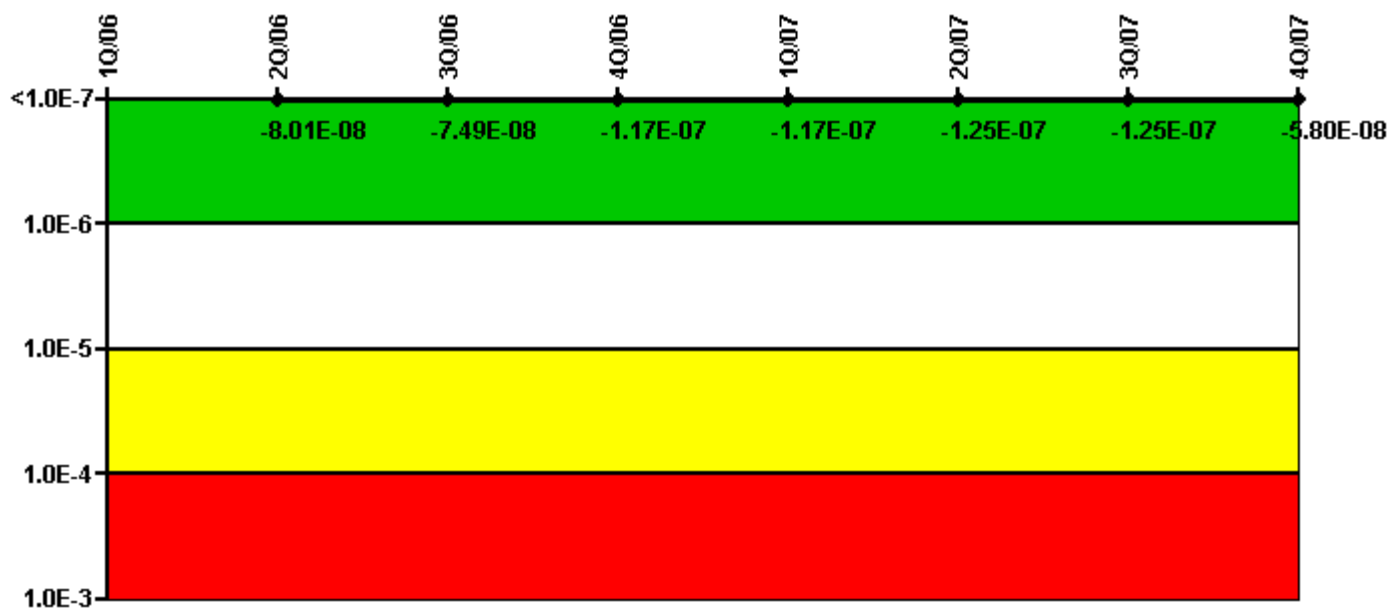
Notes

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)		-4.90E-09	-4.90E-09	-4.70E-09	-3.30E-09	-3.40E-09	-4.70E-09	-4.80E-09
URI (ΔCDF)		-1.50E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.40E-08	-1.40E-08	-1.70E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-1.99E-08	-1.99E-08	-1.97E-08	-1.83E-08	-1.74E-08	-1.87E-08	-2.18E-08

Licensee Comments:

4Q/07: Changed PRA Parameter(s). PRA parameters were updated to reflect plant changes and improvements. Also, an assessment determined inaccurate data reported for March 2007. Historical data was corrected with no change in color.

Mitigating Systems Performance Index, Cooling Water Systems



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

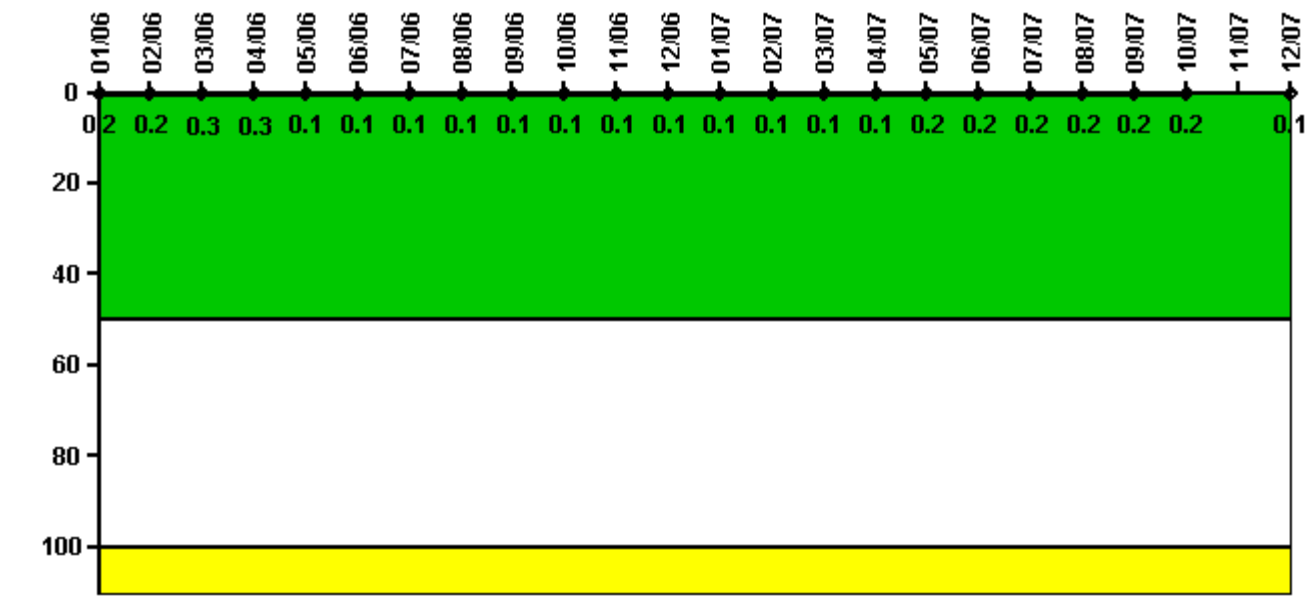
Notes

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)		1.90E-09	3.10E-09	2.70E-09	2.70E-09	4.80E-09	5.00E-09	9.20E-08
URI (ΔCDF)		-8.20E-08	-7.80E-08	-1.20E-07	-1.20E-07	-1.30E-07	-1.30E-07	-1.50E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-8.01E-08	-7.49E-08	-1.17E-07	-1.17E-07	-1.25E-07	-1.25E-07	-5.80E-08

Licensee Comments:

4Q/07: Changed PRA Parameter(s). PRA parameters were updated to reflect plant changes and improvements.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

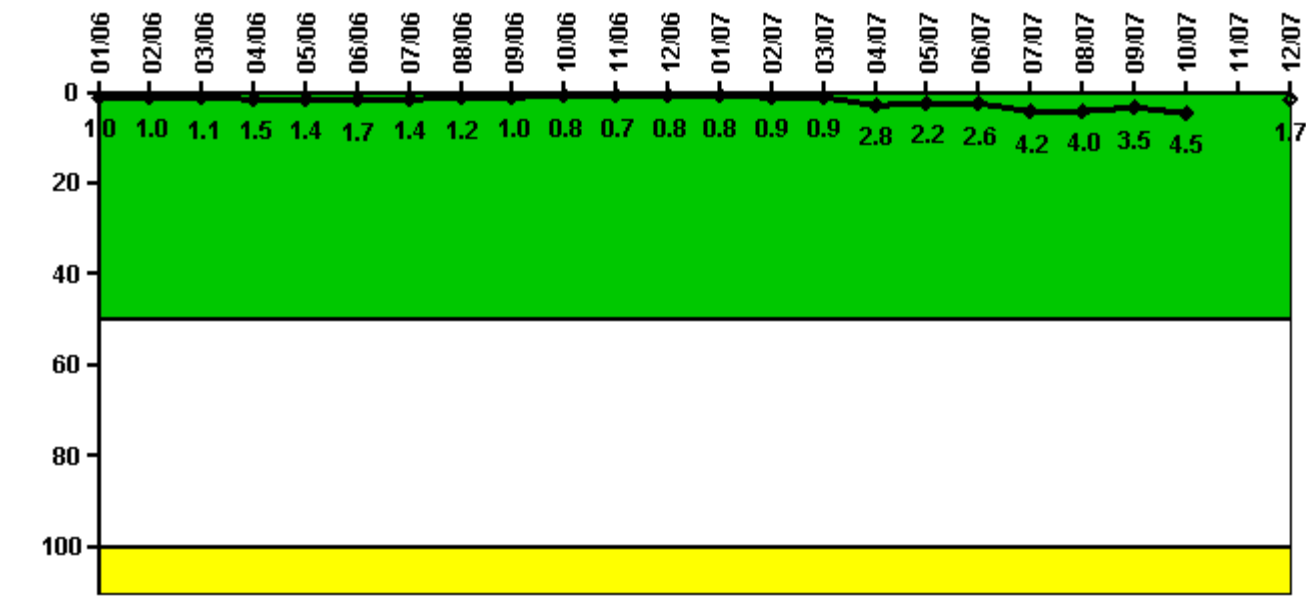
Notes

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	0.001720	0.001750	0.002760	0.003370	0.000813	0.001140	0.000901	0.000990	0.001120	0.001060	0.001120	0.001180
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

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	0.001220	0.001300	0.001420	0.001430	0.001560	0.001520	0.001620	0.002360	0.001630	0.001750	N/A	0.001060
Technical specification limit	1.0	1.0	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	0.2	0.2	0.2	0.2	0.2	0.2	N/A	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

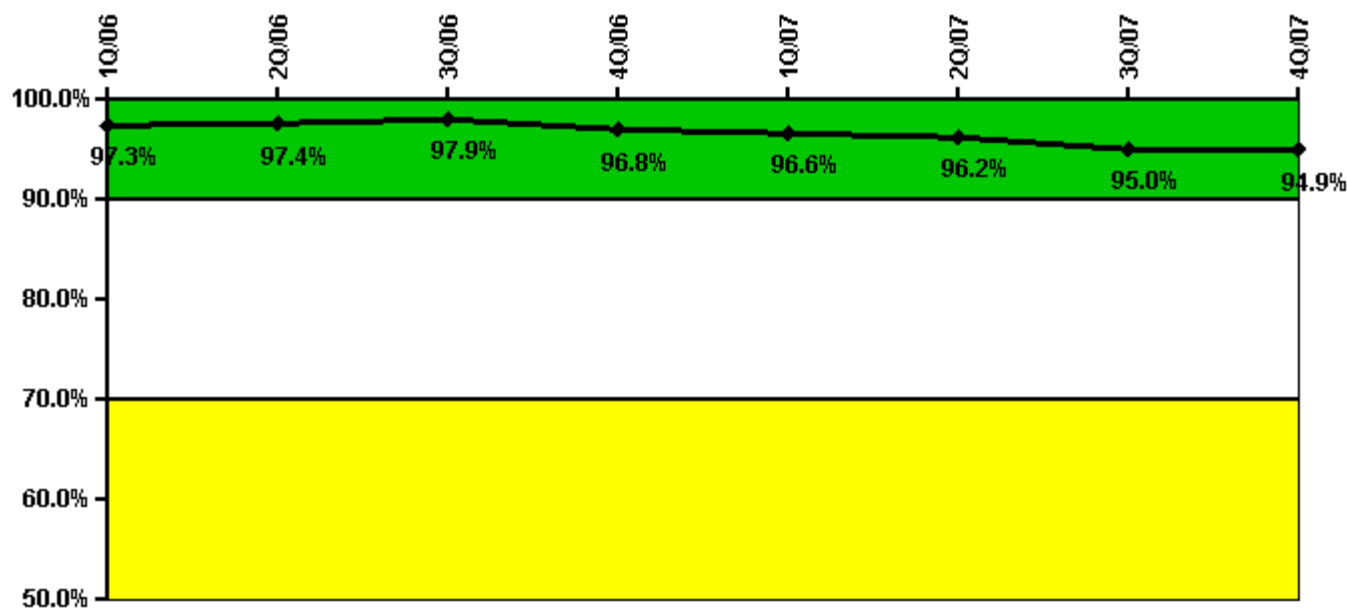
Notes

Reactor Coolant System Leakage	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum leakage	0.100	0.100	0.110	0.150	0.140	0.170	0.140	0.120	0.100	0.080	0.070	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.0	1.1	1.5	1.4	1.7	1.4	1.2	1.0	0.8	0.7	0.8

Reactor Coolant System Leakage	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum leakage	0.080	0.090	0.090	0.280	0.220	0.260	0.420	0.400	0.350	0.450	N/A	0.170
Technical specification limit	10.0	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	0.9	2.8	2.2	2.6	4.2	4.0	3.5	4.5	N/A	1.7

Licensee Comments: none

Drill/Exercise Performance



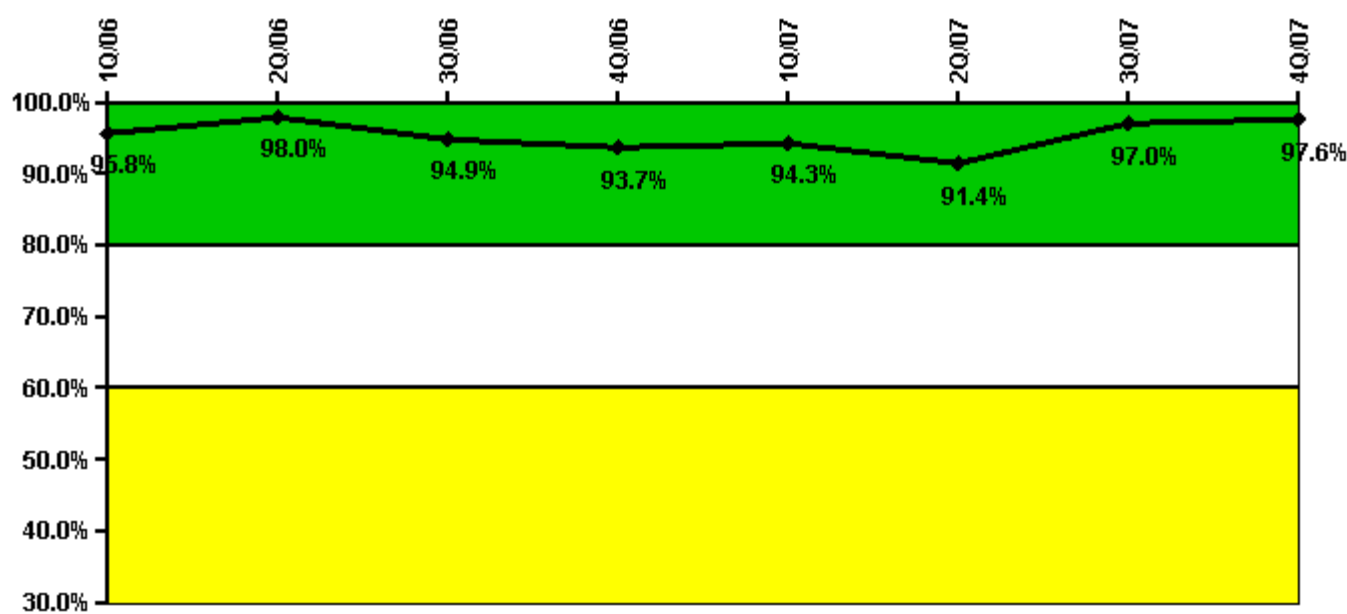
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful opportunities	34.0	22.0	31.0	1.0	32.0	25.0	18.0	22.0
Total opportunities	35.0	23.0	32.0	3.0	34.0	26.0	20.0	22.0
Indicator value	97.3%	97.4%	97.9%	96.8%	96.6%	96.2%	95.0%	94.9%

Licensee Comments: none

ERO Drill Participation



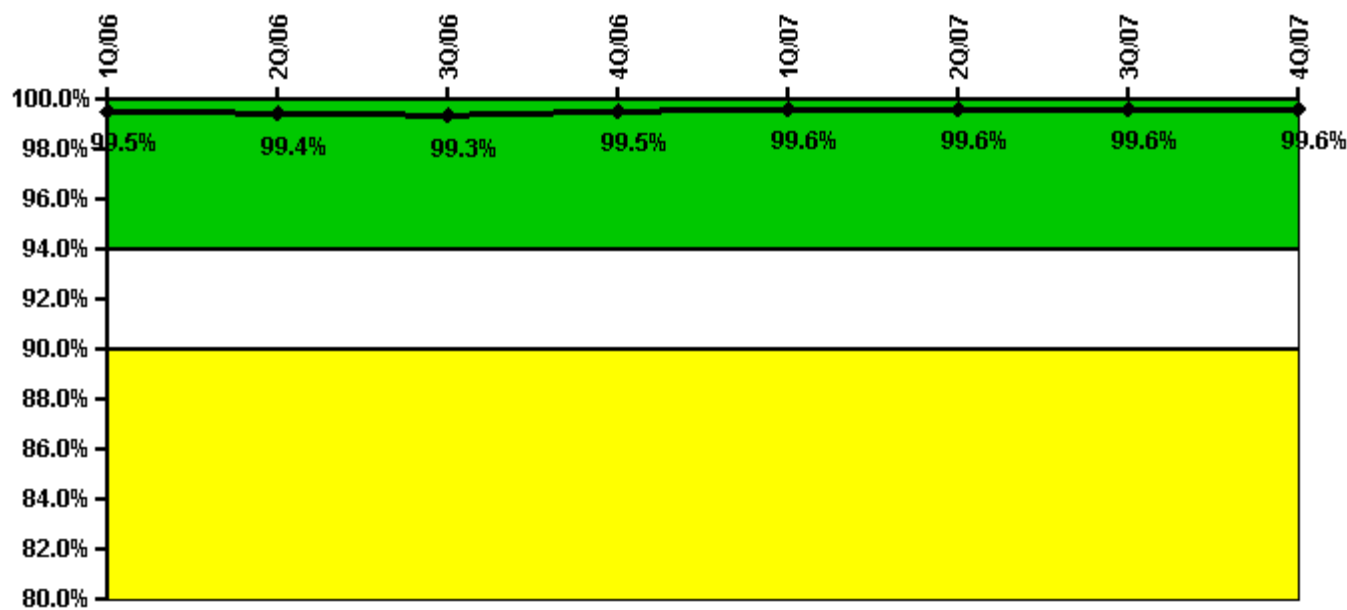
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Participating Key personnel	137.0	145.0	149.0	149.0	164.0	159.0	164.0	160.0
Total Key personnel	143.0	148.0	157.0	159.0	174.0	174.0	169.0	164.0
Indicator value	95.8%	98.0%	94.9%	93.7%	94.3%	91.4%	97.0%	97.6%

Licensee Comments: none

Alert & Notification System



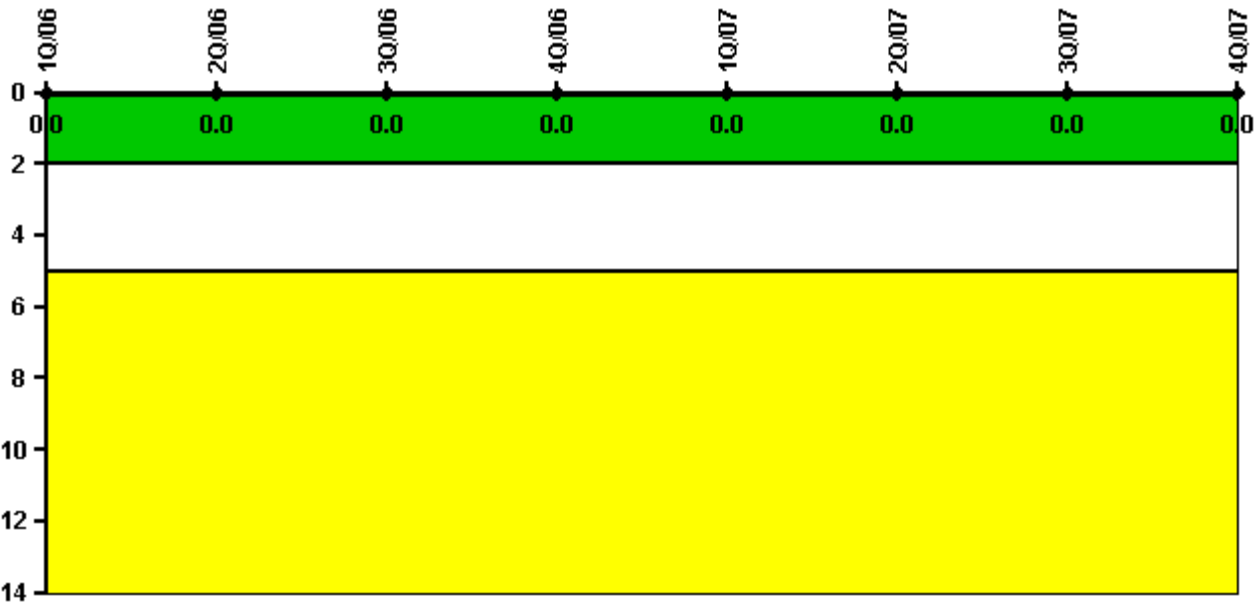
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful siren-tests	542	473	539	476	543	474	539	476
Total sirens-tests	544	476	544	476	544	476	544	476
Indicator value	99.5%	99.4%	99.3%	99.5%	99.6%	99.6%	99.6%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



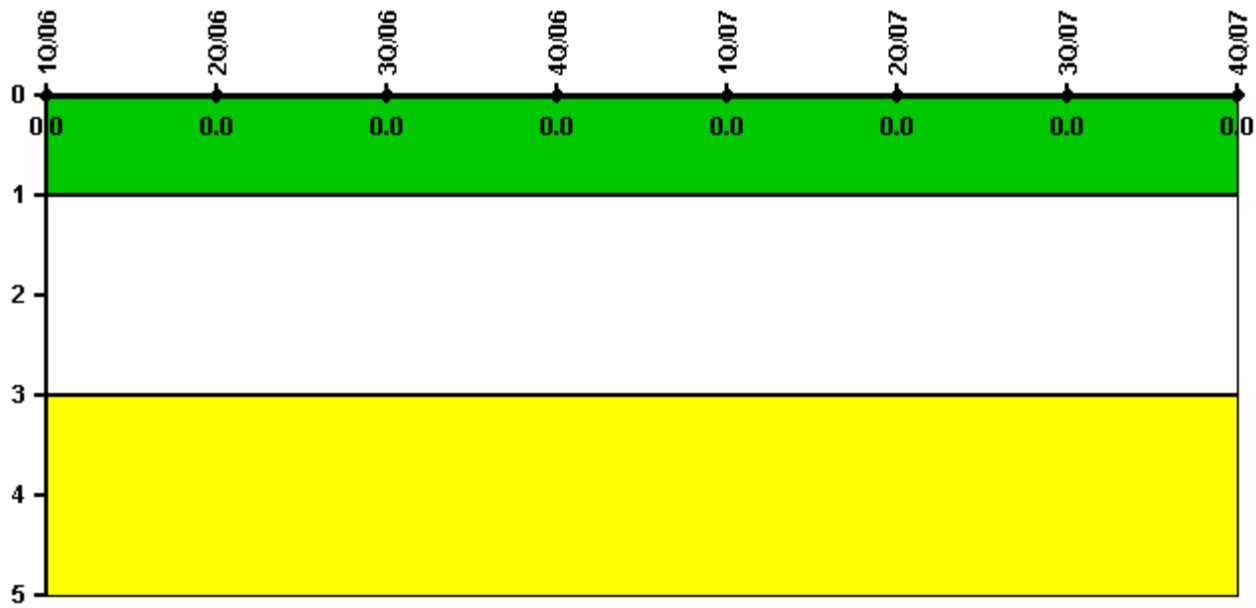
Thresholds: White > 2.0 Yellow > 5.0

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.

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

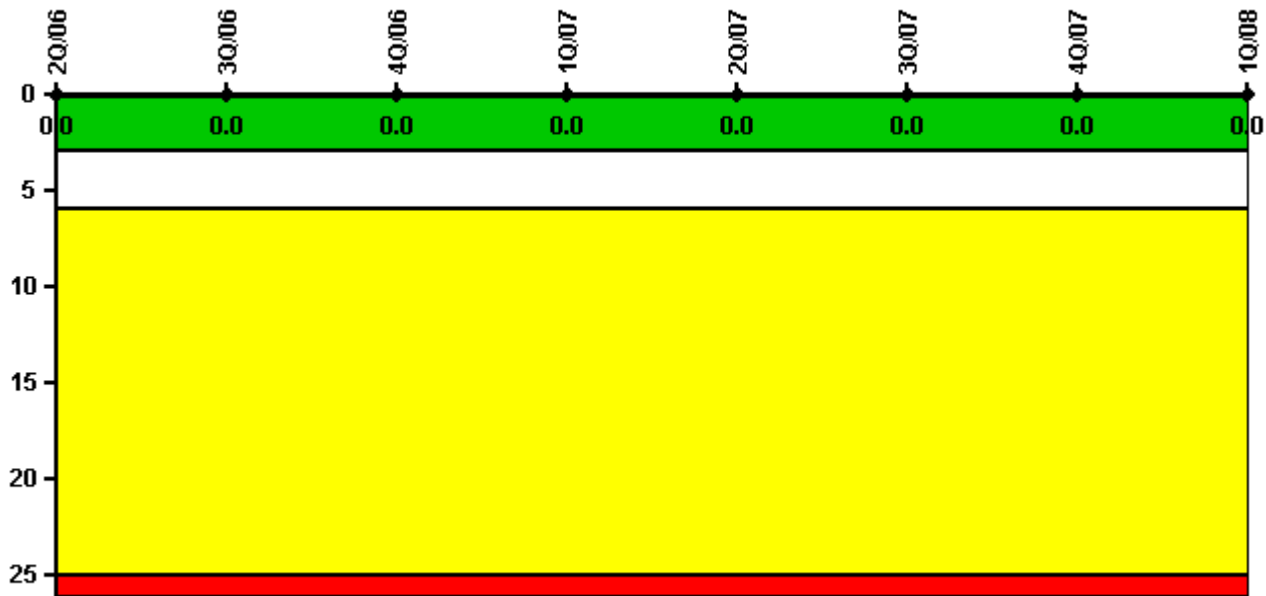
Last Modified: February 4, 2008

Surry 1

1Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



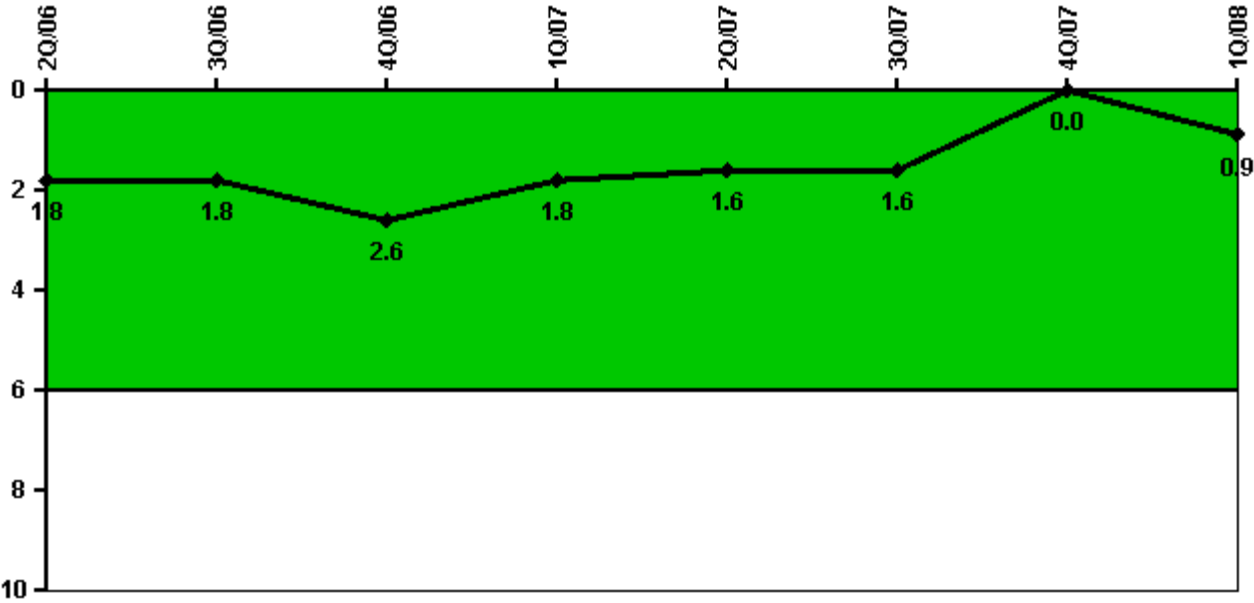
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1413.5	2208.0	2209.0	2133.5	2184.0	2208.0	1236.0	2183.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



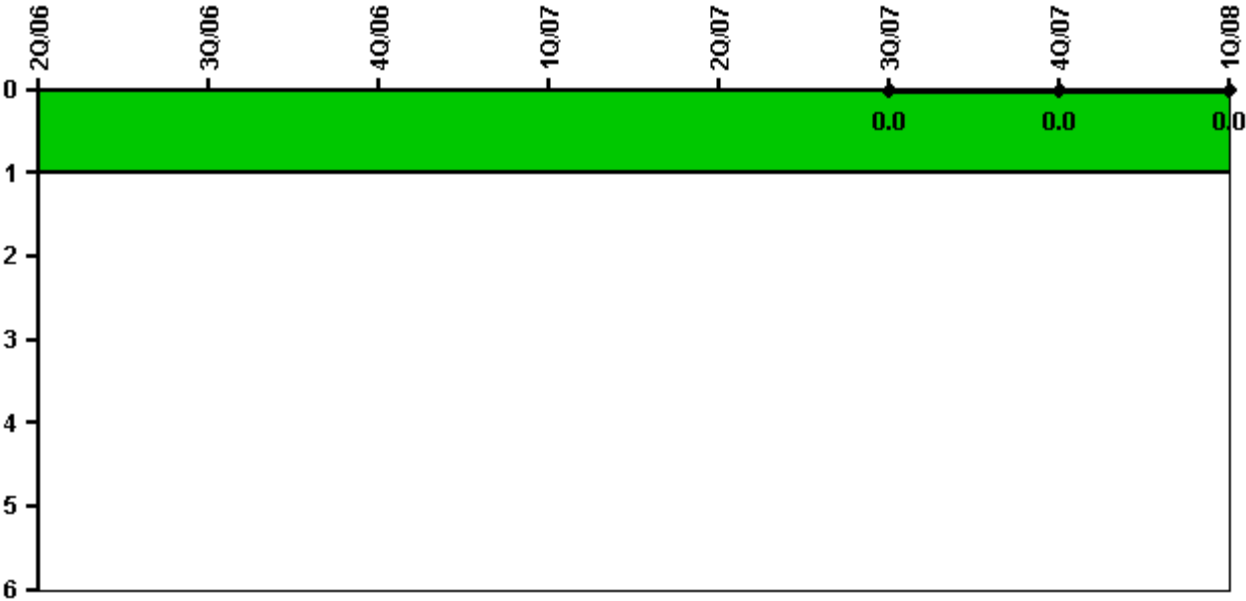
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned power changes	0	0	2.0	0	0	0	0	1.0
Critical hours	1413.5	2208.0	2209.0	2133.5	2184.0	2208.0	1236.0	2183.0
Indicator value	1.8	1.8	2.6	1.8	1.6	1.6	0	0.9

Licensee Comments: none

Unplanned Scrams with Complications



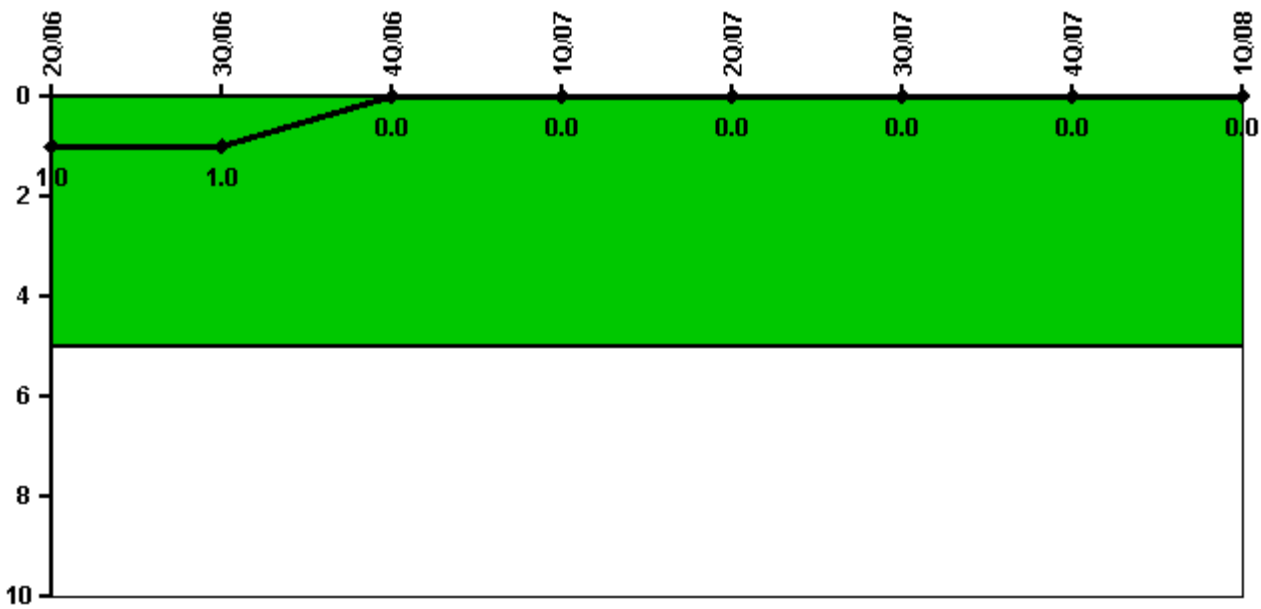
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



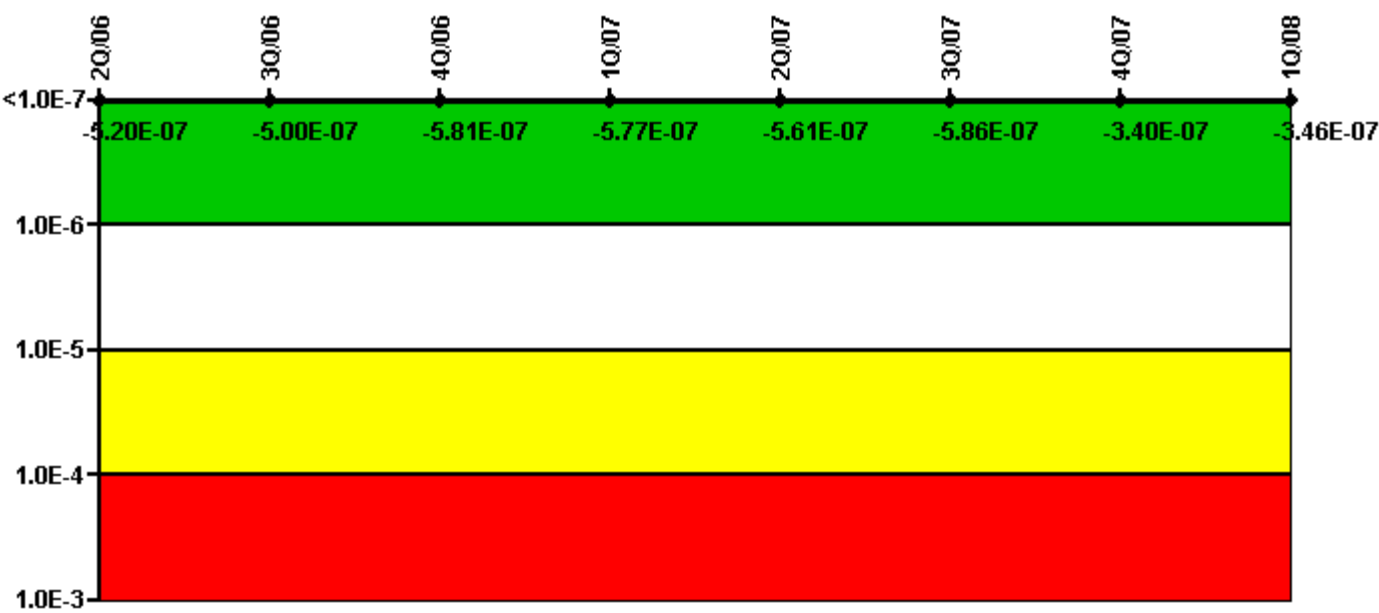
Thresholds: White > 5.0

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

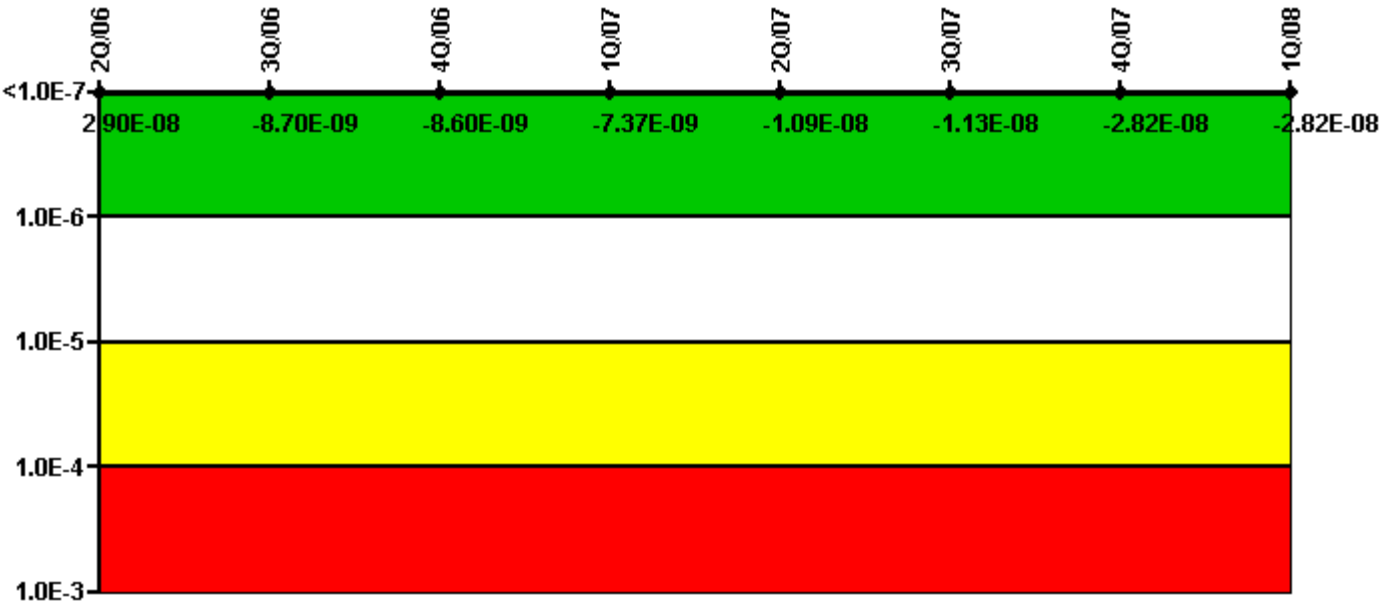
Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	5.00E-08	6.00E-08	5.90E-08	5.30E-08	5.90E-08	1.40E-08	1.00E-07	8.40E-08
URI (ΔCDF)	-5.70E-07	-5.60E-07	-6.40E-07	-6.30E-07	-6.20E-07	-6.00E-07	-4.40E-07	-4.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.20E-07	-5.00E-07	-5.81E-07	-5.77E-07	-5.61E-07	-5.86E-07	-3.40E-07	-3.46E-07

Licensee Comments:

1Q/08: 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

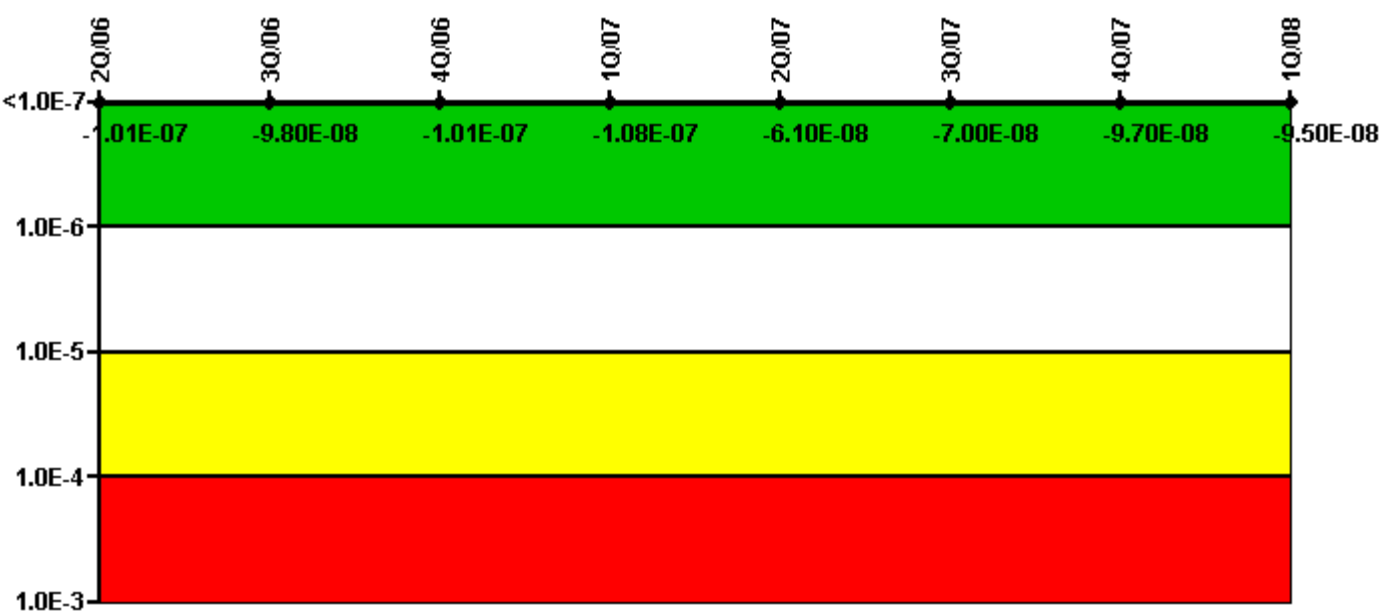
Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	-1.00E-09	-2.30E-09	-2.30E-09	-7.70E-10	-9.20E-10	-1.30E-09	-2.20E-09	-2.20E-09
URI (ΔCDF)	3.00E-08	-6.40E-09	-6.30E-09	-6.60E-09	-1.00E-08	-1.00E-08	-2.60E-08	-2.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.90E-08	-8.70E-09	-8.60E-09	-7.37E-09	-1.09E-08	-1.13E-08	-2.82E-08	-2.82E-08

Licensee Comments:

1Q/08: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Heat Removal System



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

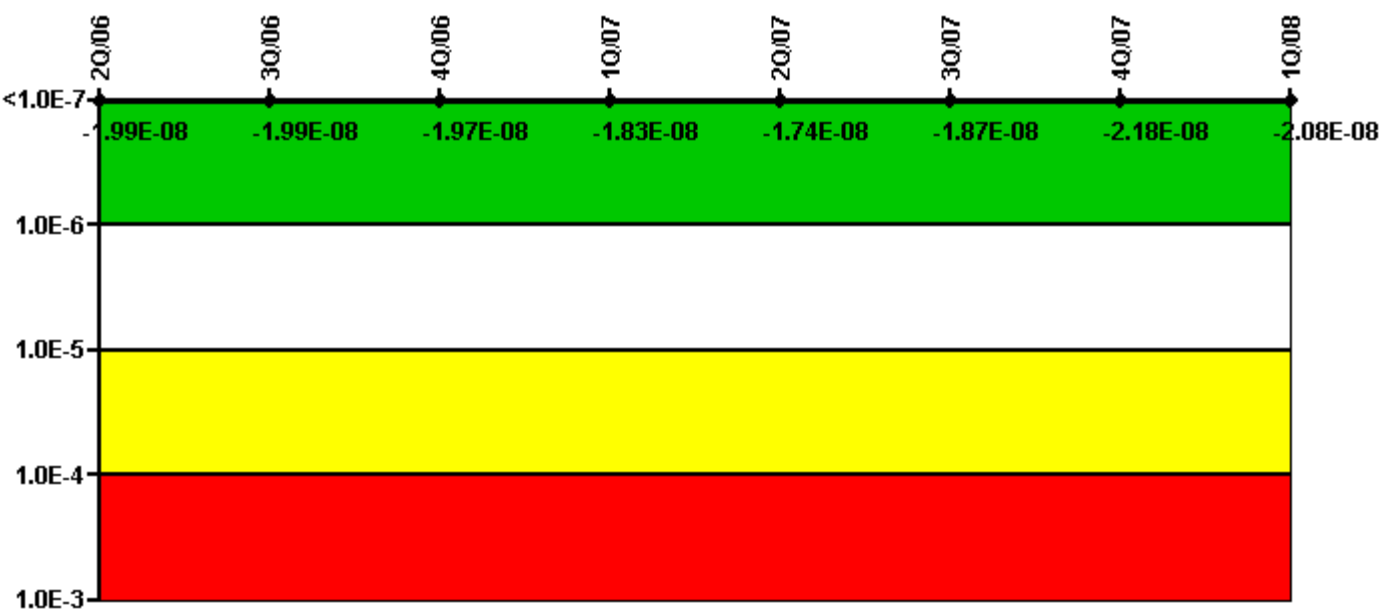
Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	8.70E-09	1.20E-08	-6.30E-10	-8.10E-09	3.90E-08	4.00E-08	2.30E-08	2.50E-08
URI (ΔCDF)	-1.10E-07	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.10E-07	-1.20E-07	-1.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.01E-07	-9.80E-08	-1.01E-07	-1.08E-07	-6.10E-08	-7.00E-08	-9.70E-08	-9.50E-08

Licensee Comments:

1Q/08: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Residual Heat Removal System



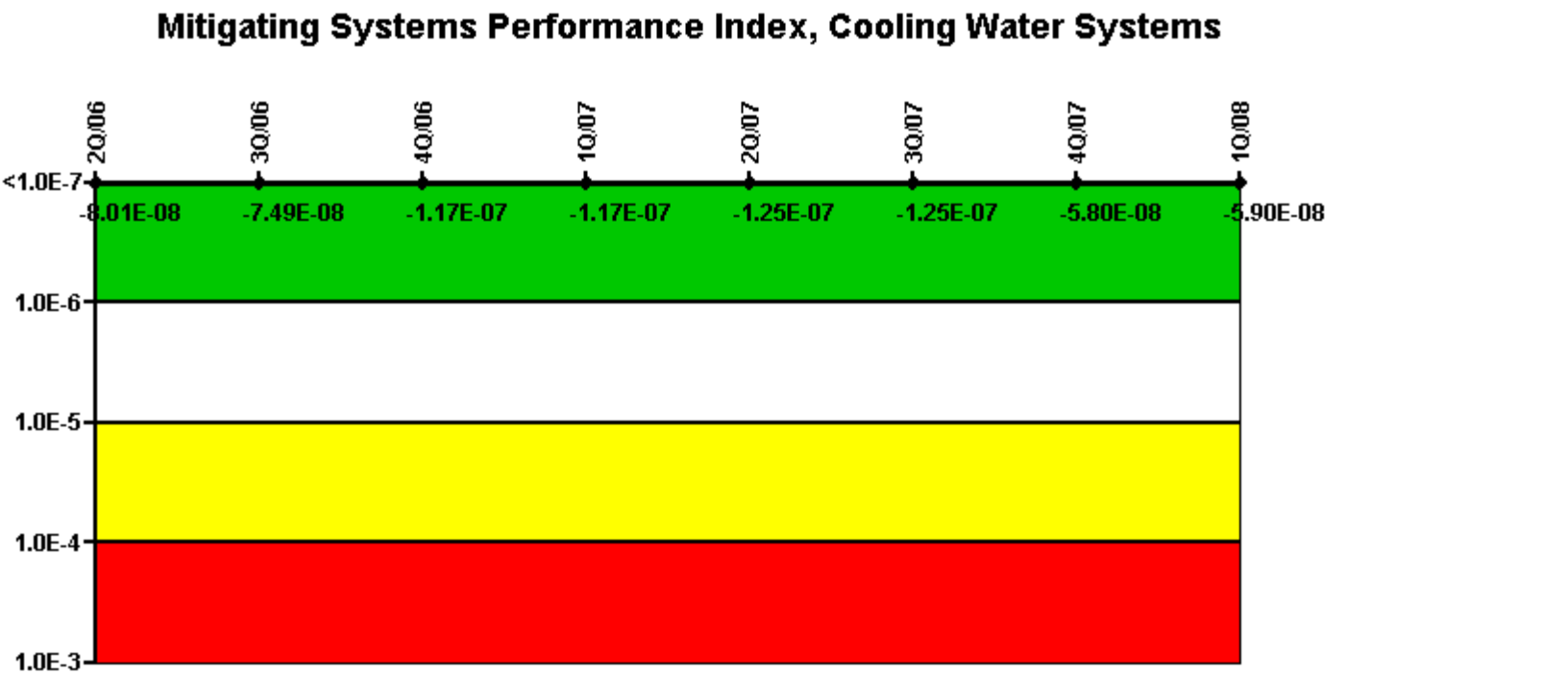
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	-4.90E-09	-4.90E-09	-4.70E-09	-3.30E-09	-3.40E-09	-4.70E-09	-4.80E-09	-4.80E-09
URI (ΔCDF)	-1.50E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.40E-08	-1.40E-08	-1.70E-08	-1.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.99E-08	-1.99E-08	-1.97E-08	-1.83E-08	-1.74E-08	-1.87E-08	-2.18E-08	-2.08E-08

Licensee Comments:

1Q/08: Changed PRA Parameter(s).



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

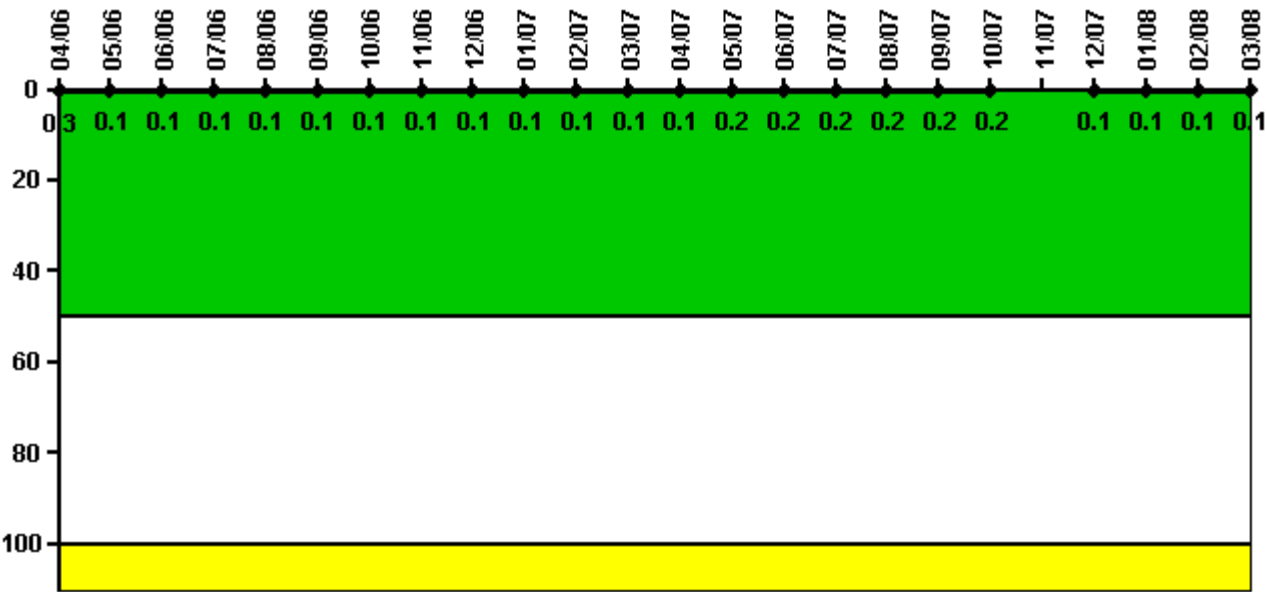
Notes

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)	1.90E-09	3.10E-09	2.70E-09	2.70E-09	4.80E-09	5.00E-09	9.20E-08	9.10E-08
URI (ΔCDF)	-8.20E-08	-7.80E-08	-1.20E-07	-1.20E-07	-1.30E-07	-1.30E-07	-1.50E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.01E-08	-7.49E-08	-1.17E-07	-1.17E-07	-1.25E-07	-1.25E-07	-5.80E-08	-5.90E-08

Licensee Comments:

1Q/08: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

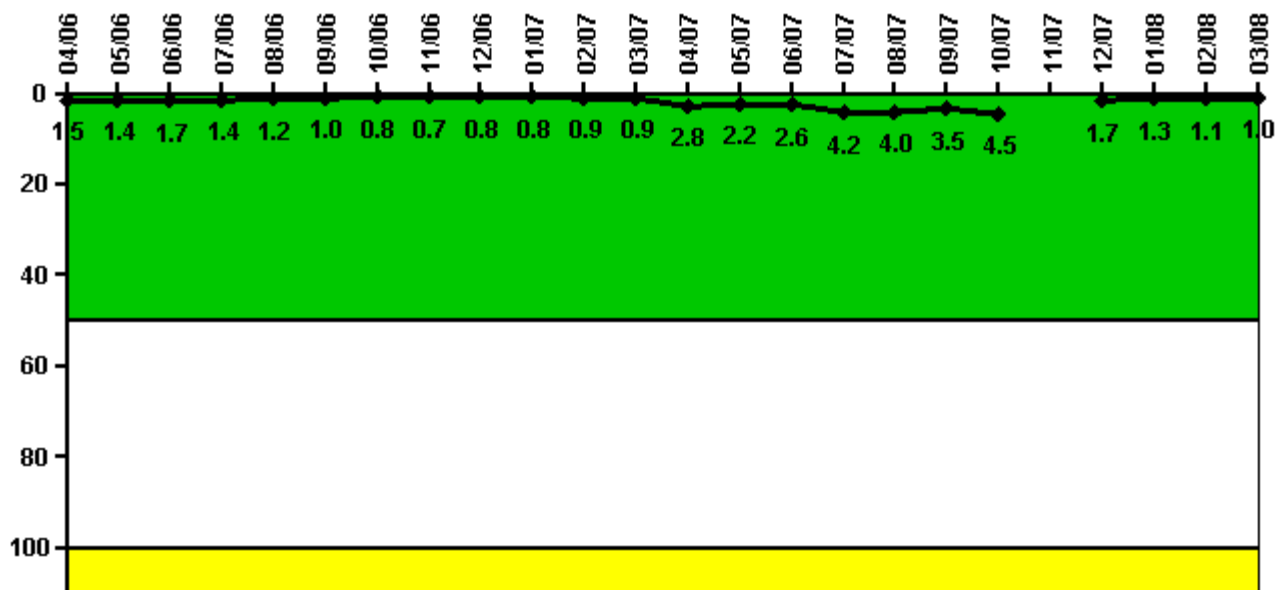
Notes

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	0.003370	0.000813	0.001140	0.000901	0.000990	0.001120	0.001060	0.001120	0.001180	0.001220	0.001300	0.001420
Technical specification limit	1.0	1.0	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	0.1	0.1	0.1	0.1	0.1	0.1

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	0.001430	0.001560	0.001520	0.001620	0.002360	0.001630	0.001750	N/A	0.001060	0.001250	0.001120	0.000964
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.2	0.2	0.2	0.2	0.2	0.2	N/A	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



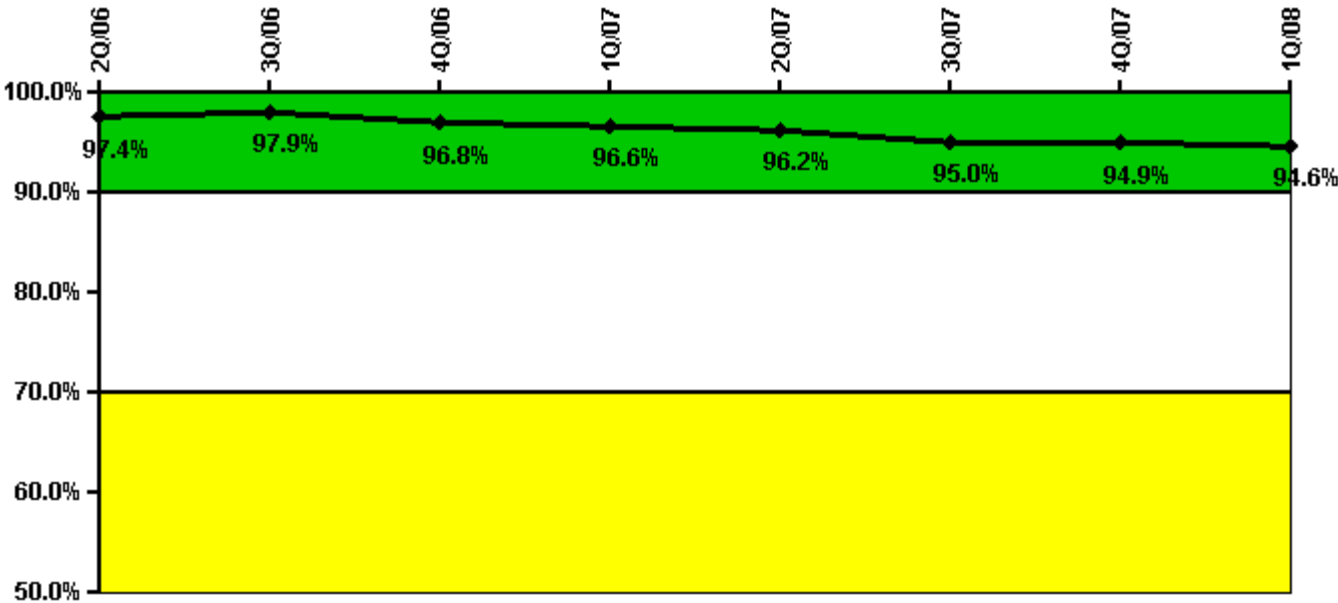
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum leakage	0.150	0.140	0.170	0.140	0.120	0.100	0.080	0.070	0.080	0.080	0.090	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.5	1.4	1.7	1.4	1.2	1.0	0.8	0.7	0.8	0.8	0.9	0.9
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	0.280	0.220	0.260	0.420	0.400	0.350	0.450	N/A	0.170	0.130	0.110	0.100
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.8	2.2	2.6	4.2	4.0	3.5	4.5	N/A	1.7	1.3	1.1	1.0

Licensee Comments: none

Drill/Exercise Performance



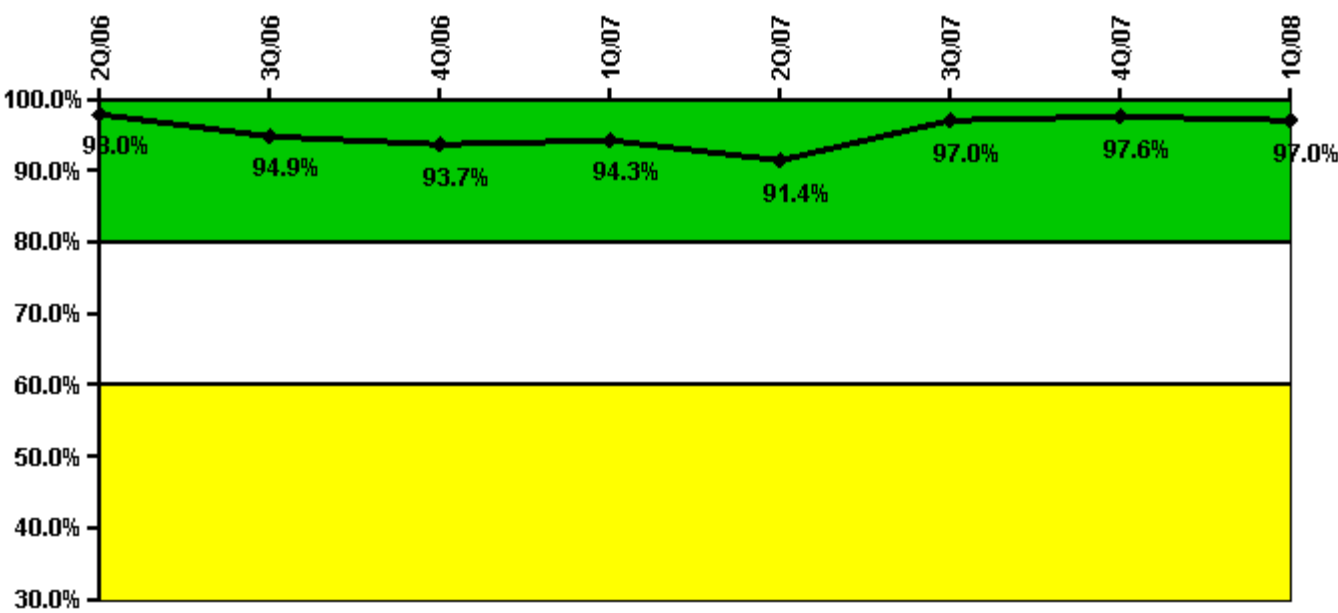
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful opportunities	22.0	31.0	1.0	32.0	25.0	18.0	22.0	42.0
Total opportunities	23.0	32.0	3.0	34.0	26.0	20.0	22.0	44.0
Indicator value	97.4%	97.9%	96.8%	96.6%	96.2%	95.0%	94.9%	94.6%

Licensee Comments: none

ERO Drill Participation



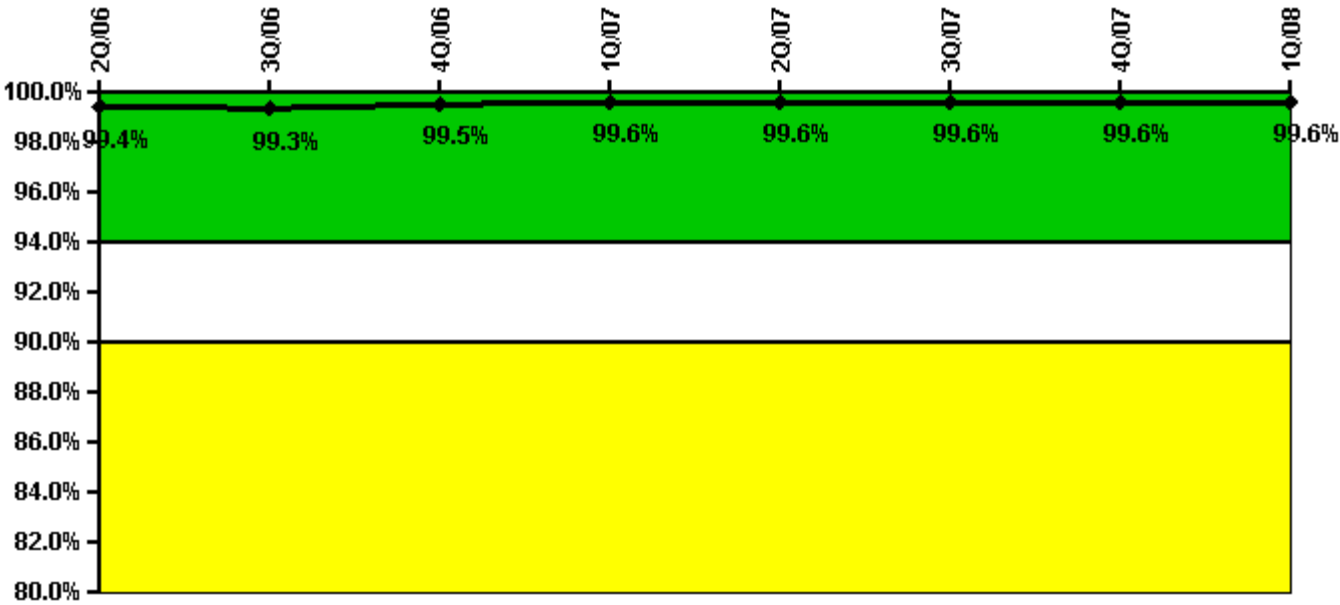
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Participating Key personnel	145.0	149.0	149.0	164.0	159.0	164.0	160.0	128.0
Total Key personnel	148.0	157.0	159.0	174.0	174.0	169.0	164.0	132.0
Indicator value	98.0%	94.9%	93.7%	94.3%	91.4%	97.0%	97.6%	97.0%

Licensee Comments: none

Alert & Notification System



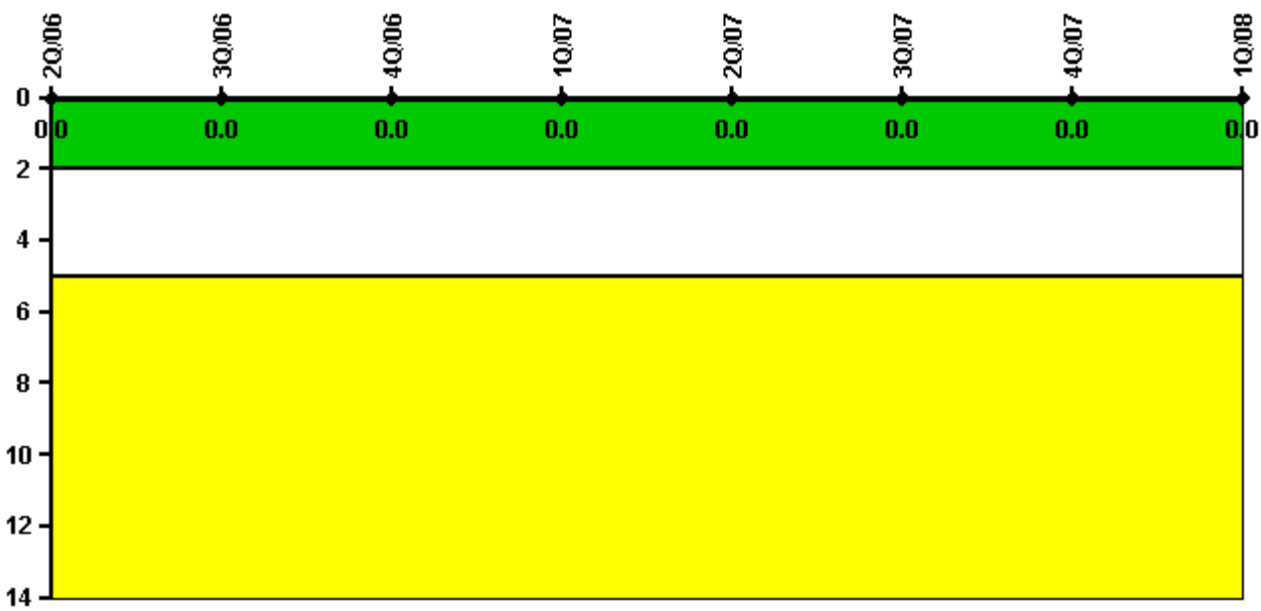
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful siren-tests	473	539	476	543	474	539	476	543
Total sirens-tests	476	544	476	544	476	544	476	544
Indicator value	99.4%	99.3%	99.5%	99.6%	99.6%	99.6%	99.6%	99.6%

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.

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

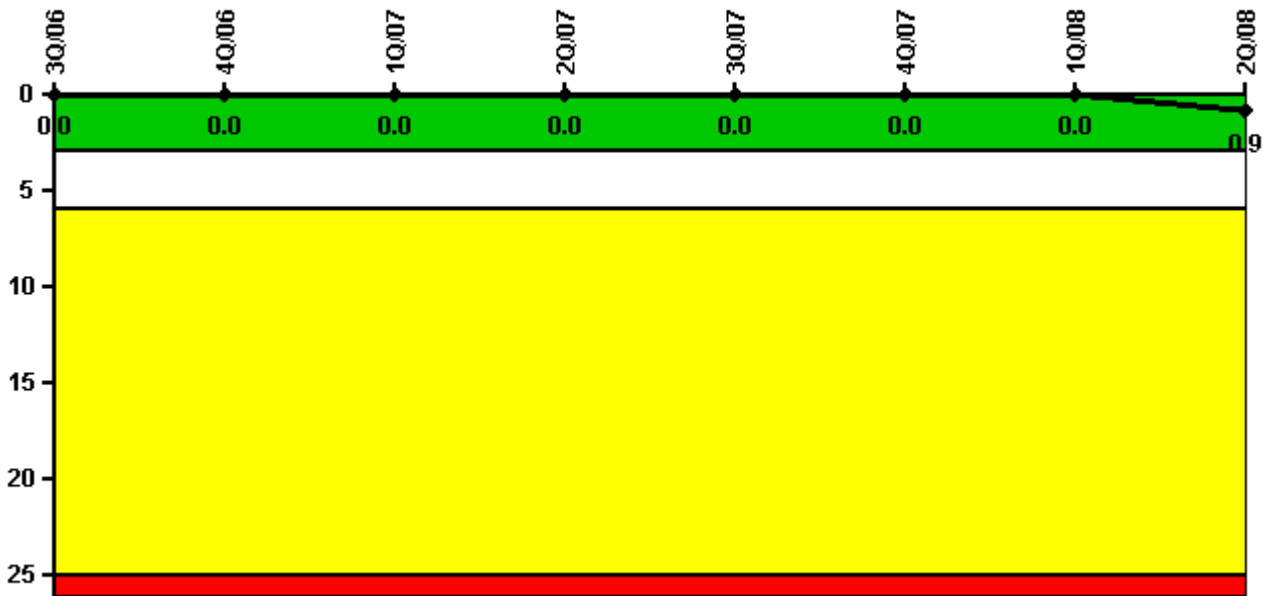
Last Modified: April 30, 2008

Surry 1

2Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



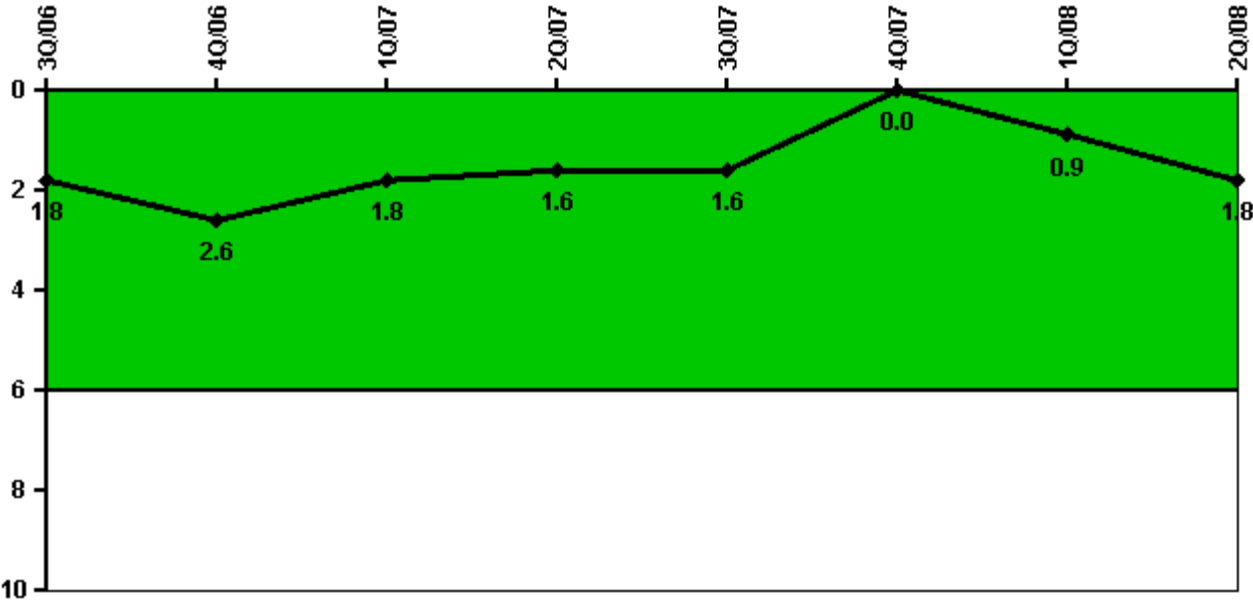
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	2208.0	2209.0	2133.5	2184.0	2208.0	1236.0	2183.0	2081.1
Indicator value	0	0	0	0	0	0	0	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



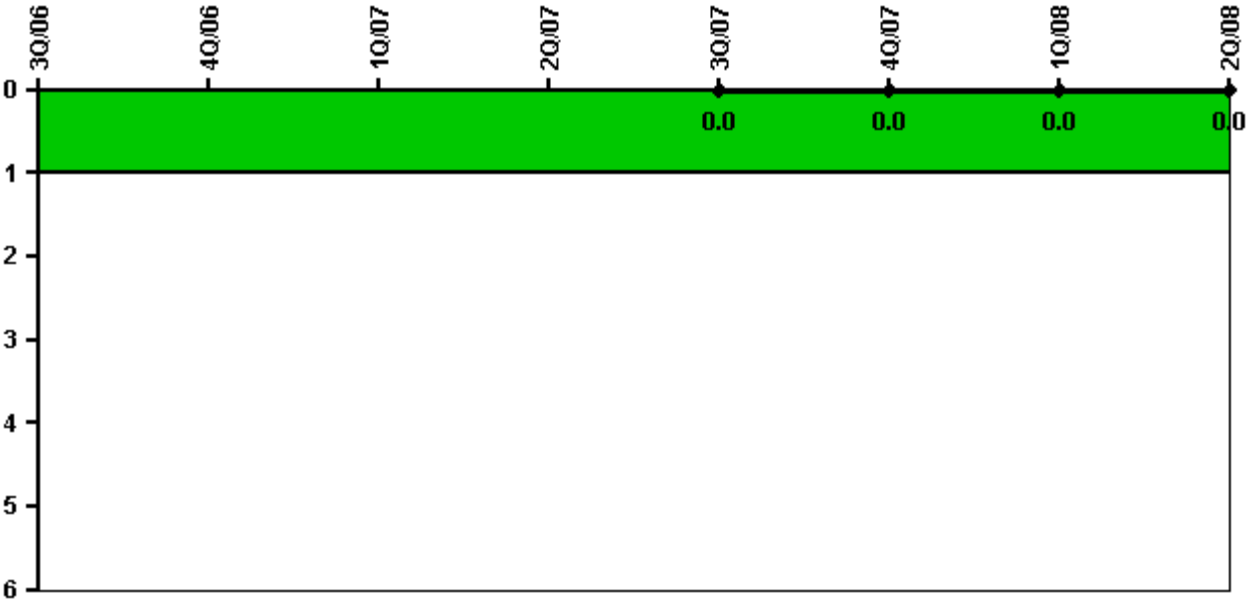
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned power changes	0	2.0	0	0	0	0	1.0	1.0
Critical hours	2208.0	2209.0	2133.5	2184.0	2208.0	1236.0	2183.0	2081.1
Indicator value	1.8	2.6	1.8	1.6	1.6	0	0.9	1.8

Licensee Comments: none

Unplanned Scrams with Complications



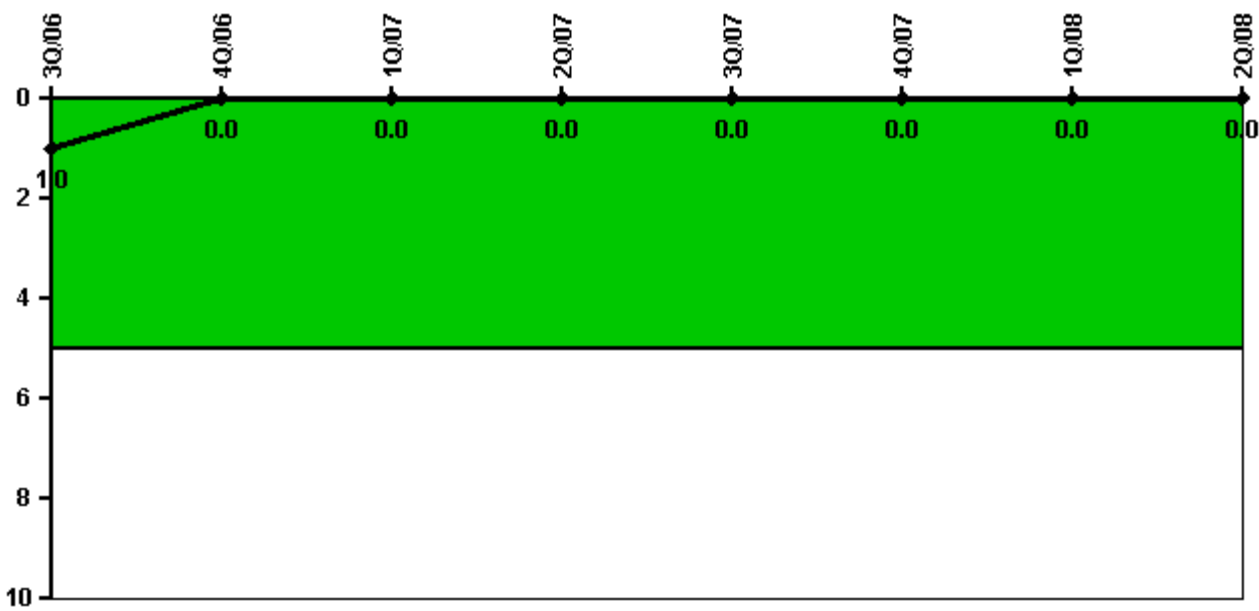
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



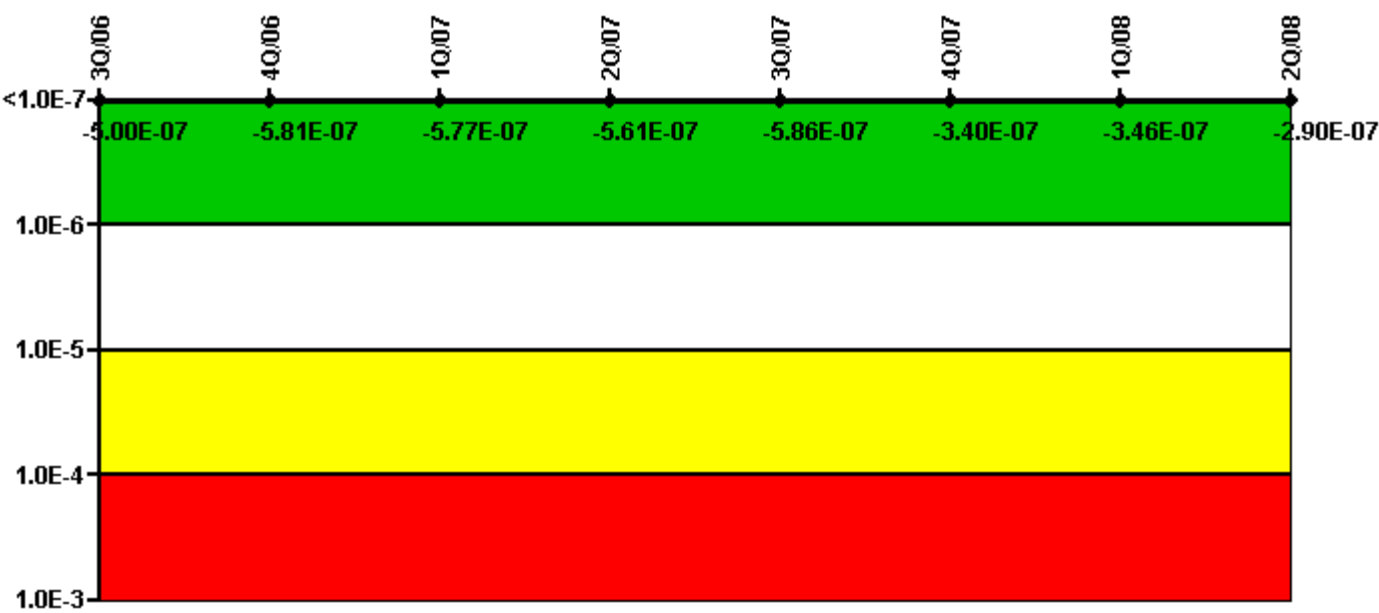
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



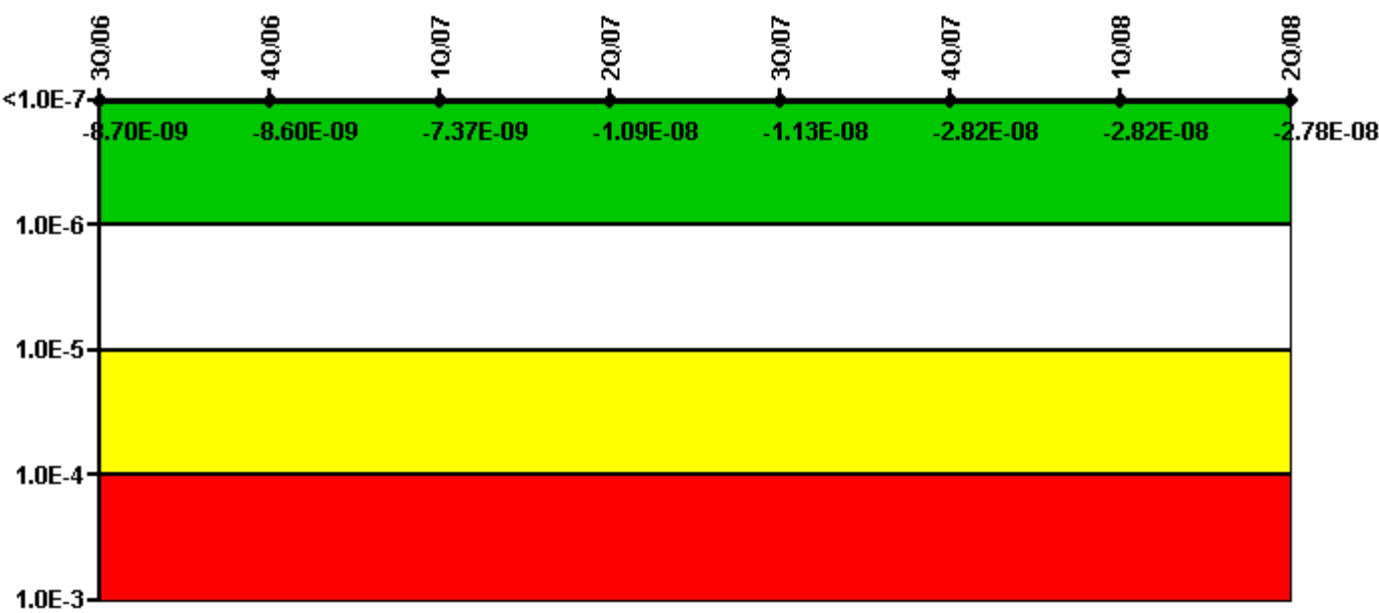
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	6.00E-08	5.90E-08	5.30E-08	5.90E-08	1.40E-08	1.00E-07	8.40E-08	1.50E-07
URI (ΔCDF)	-5.60E-07	-6.40E-07	-6.30E-07	-6.20E-07	-6.00E-07	-4.40E-07	-4.30E-07	-4.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.00E-07	-5.81E-07	-5.77E-07	-5.61E-07	-5.86E-07	-3.40E-07	-3.46E-07	-2.90E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



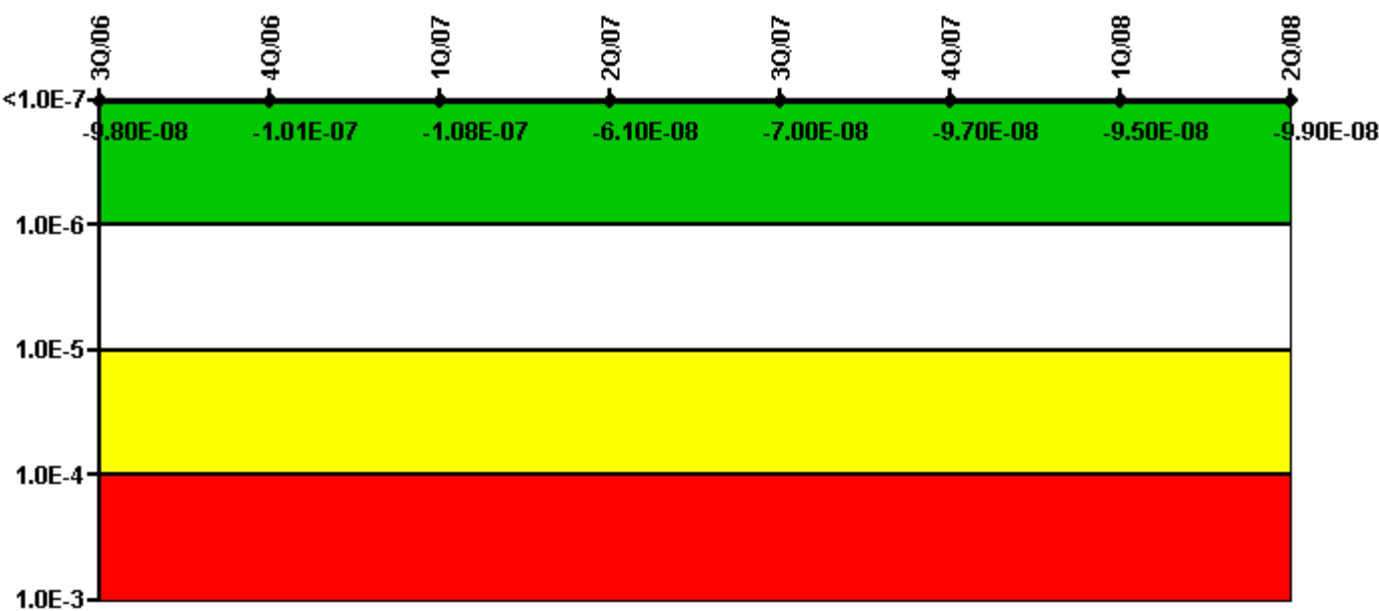
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-2.30E-09	-2.30E-09	-7.70E-10	-9.20E-10	-1.30E-09	-2.20E-09	-2.20E-09	-1.80E-09
URI (ΔCDF)	-6.40E-09	-6.30E-09	-6.60E-09	-1.00E-08	-1.00E-08	-2.60E-08	-2.60E-08	-2.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.70E-09	-8.60E-09	-7.37E-09	-1.09E-08	-1.13E-08	-2.82E-08	-2.82E-08	-2.78E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



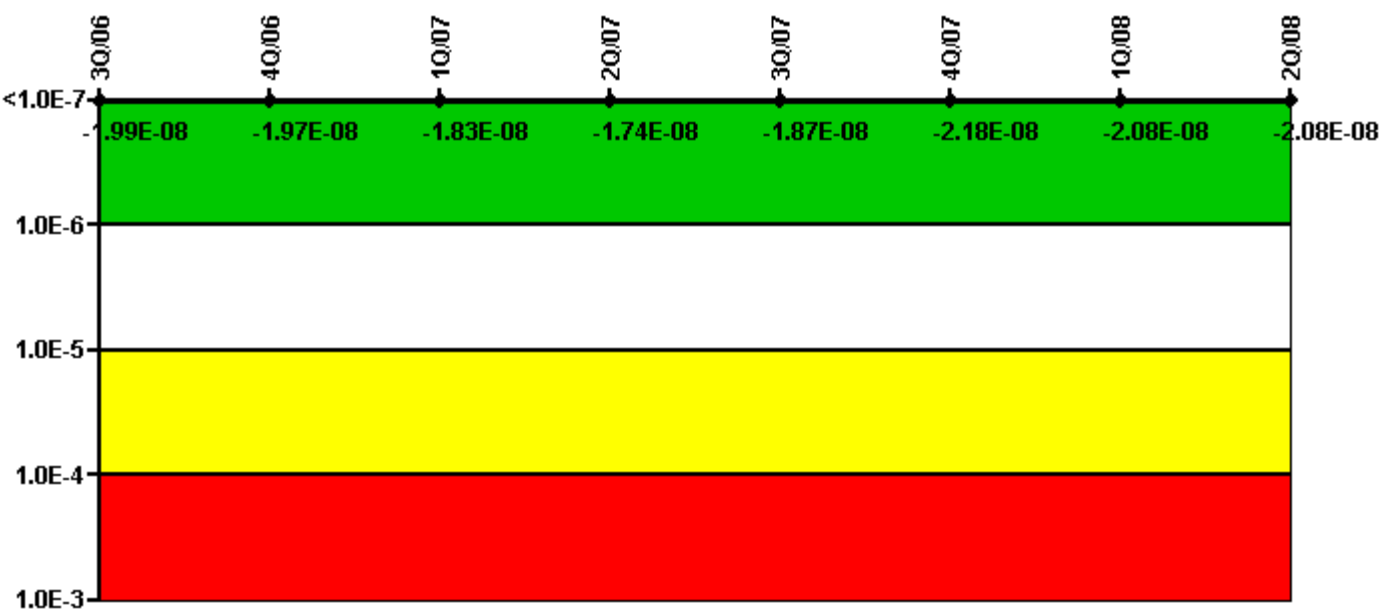
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	1.20E-08	-6.30E-10	-8.10E-09	3.90E-08	4.00E-08	2.30E-08	2.50E-08	2.10E-08
URI (ΔCDF)	-1.10E-07	-1.00E-07	-1.00E-07	-1.00E-07	-1.10E-07	-1.20E-07	-1.20E-07	-1.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.80E-08	-1.01E-07	-1.08E-07	-6.10E-08	-7.00E-08	-9.70E-08	-9.50E-08	-9.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

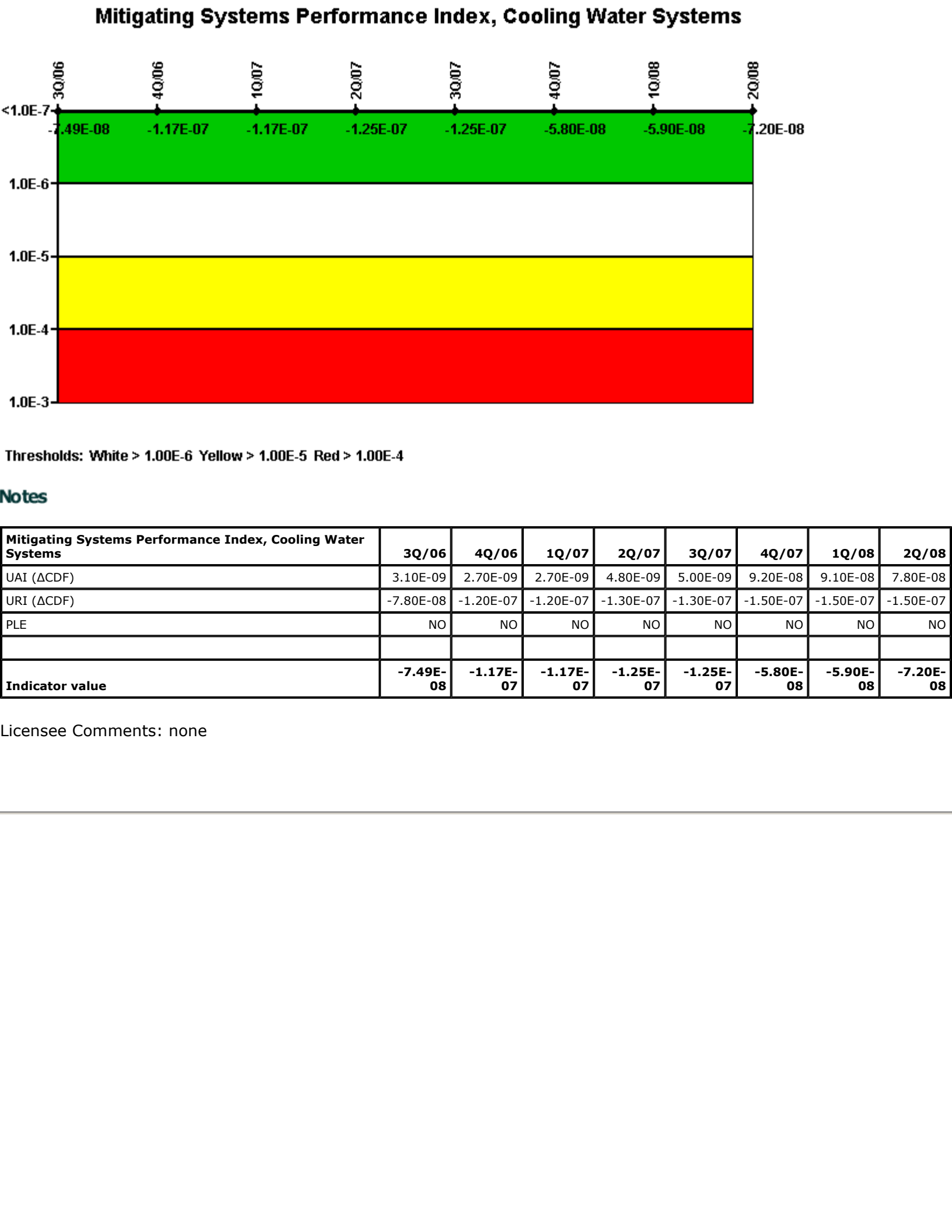


Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

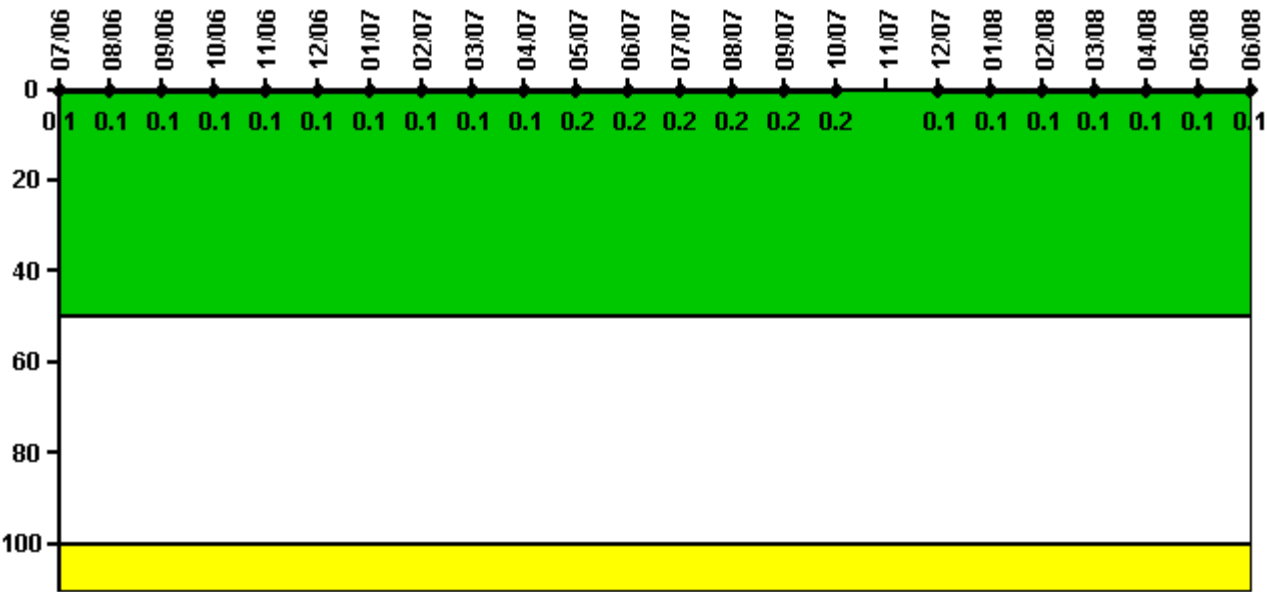
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	-4.90E-09	-4.70E-09	-3.30E-09	-3.40E-09	-4.70E-09	-4.80E-09	-4.80E-09	-4.80E-09
URI (ΔCDF)	-1.50E-08	-1.50E-08	-1.50E-08	-1.40E-08	-1.40E-08	-1.70E-08	-1.60E-08	-1.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.99E-08	-1.97E-08	-1.83E-08	-1.74E-08	-1.87E-08	-2.18E-08	-2.08E-08	-2.08E-08

Licensee Comments: none



Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

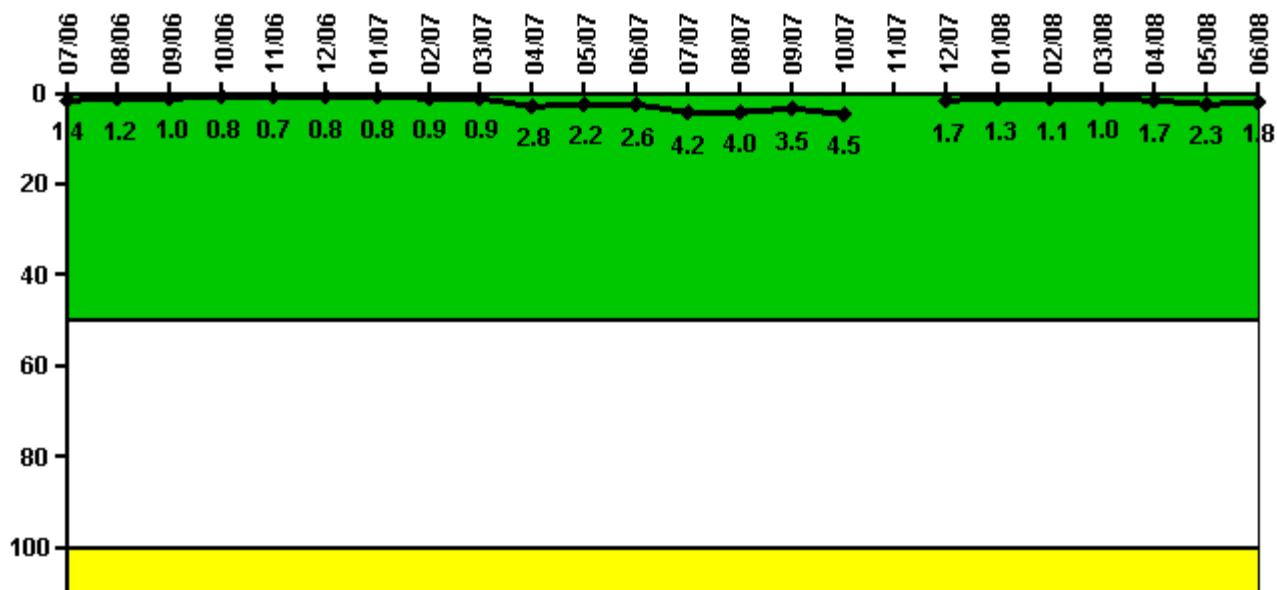
Notes

Reactor Coolant System Activity	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum activity	0.000901	0.000990	0.001120	0.001060	0.001120	0.001180	0.001220	0.001300	0.001420	0.001430	0.001560	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2

Reactor Coolant System Activity	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum activity	0.001620	0.002360	0.001630	0.001750	N/A	0.001060	0.001250	0.001120	0.000964	0.000905	0.001270	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	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



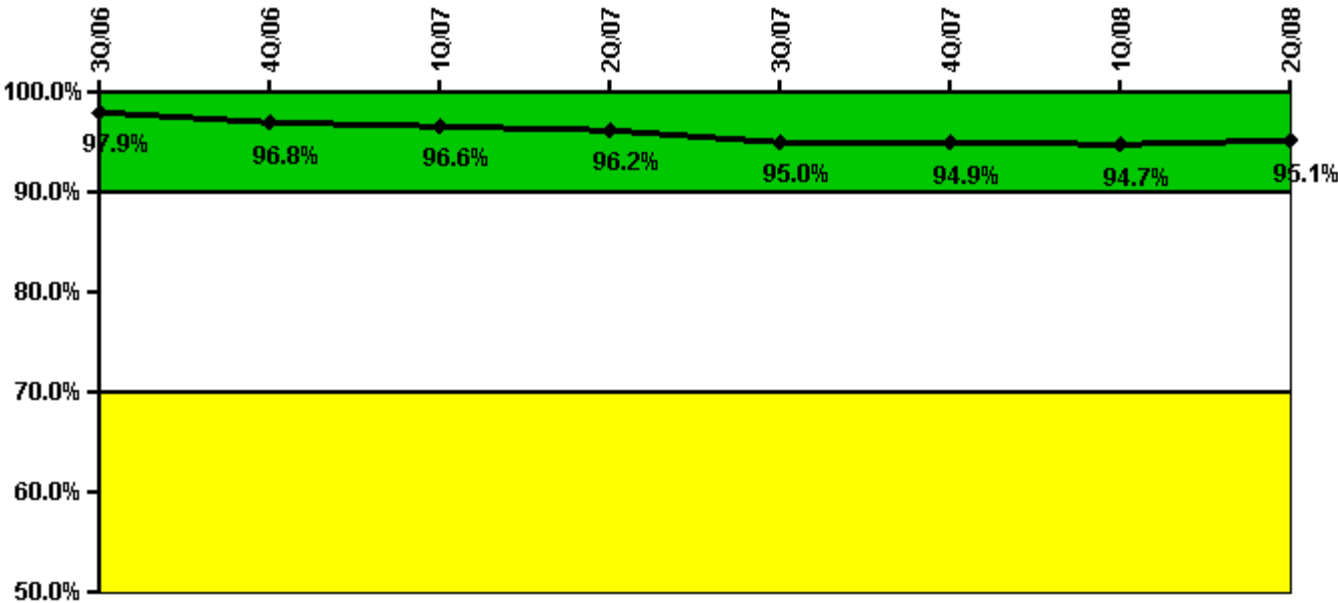
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum leakage	0.140	0.120	0.100	0.080	0.070	0.080	0.080	0.090	0.090	0.280	0.220	0.260
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.4	1.2	1.0	0.8	0.7	0.8	0.8	0.9	0.9	2.8	2.2	2.6
Reactor Coolant System Leakage	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum leakage	0.420	0.400	0.350	0.450	N/A	0.170	0.130	0.110	0.100	0.170	0.230	0.180
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	4.2	4.0	3.5	4.5	N/A	1.7	1.3	1.1	1.0	1.7	2.3	1.8

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

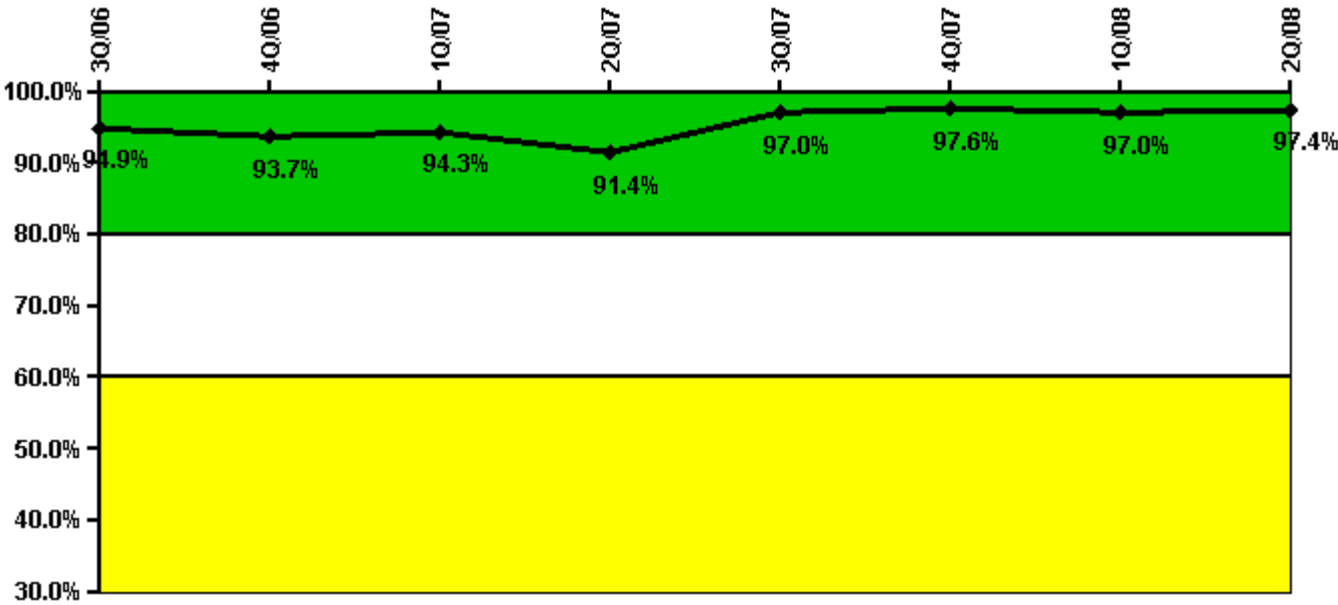
Notes

Drill/Exercise Performance	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful opportunities	31.0	1.0	32.0	25.0	18.0	24.0	43.0	41.0
Total opportunities	32.0	3.0	34.0	26.0	20.0	24.0	45.0	42.0
Indicator value	97.9%	96.8%	96.6%	96.2%	95.0%	94.9%	94.7%	95.1%

Licensee Comments:

2Q/08: A self assessment recognized several drill opportunities were not accounted for in Dec. 07 and Jan. 08. Historical data was corrected with no change in color.

ERO Drill Participation



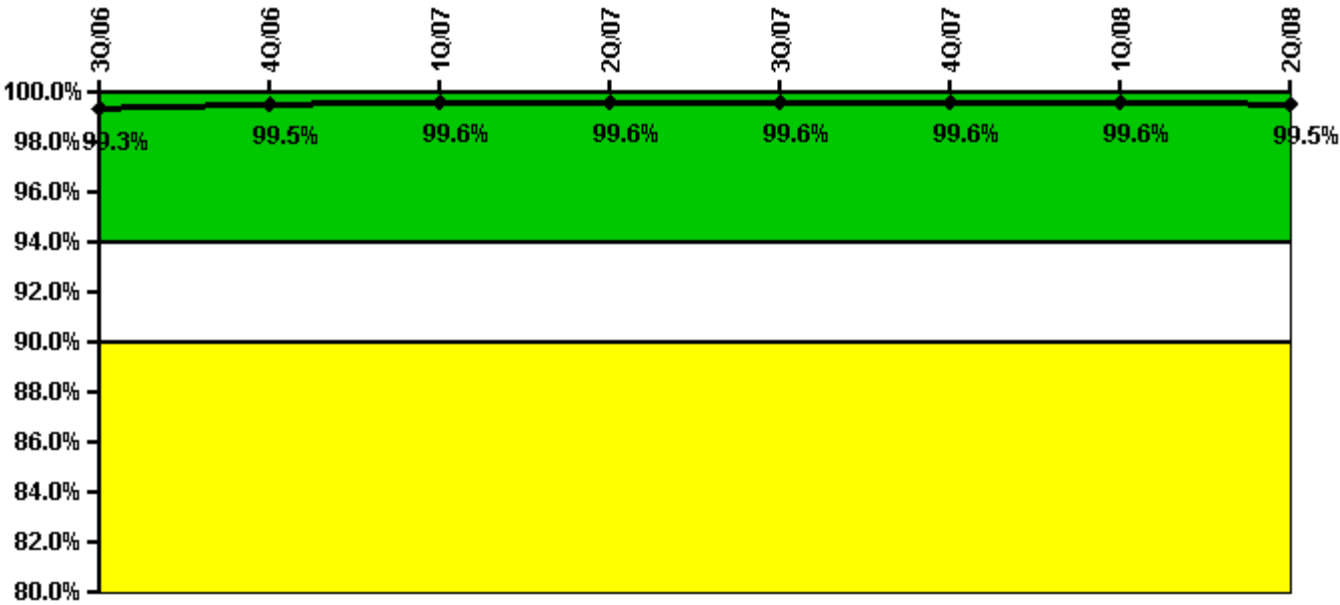
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Participating Key personnel	149.0	149.0	164.0	159.0	164.0	160.0	128.0	149.0
Total Key personnel	157.0	159.0	174.0	174.0	169.0	164.0	132.0	153.0
Indicator value	94.9%	93.7%	94.3%	91.4%	97.0%	97.6%	97.0%	97.4%

Licensee Comments: none

Alert & Notification System



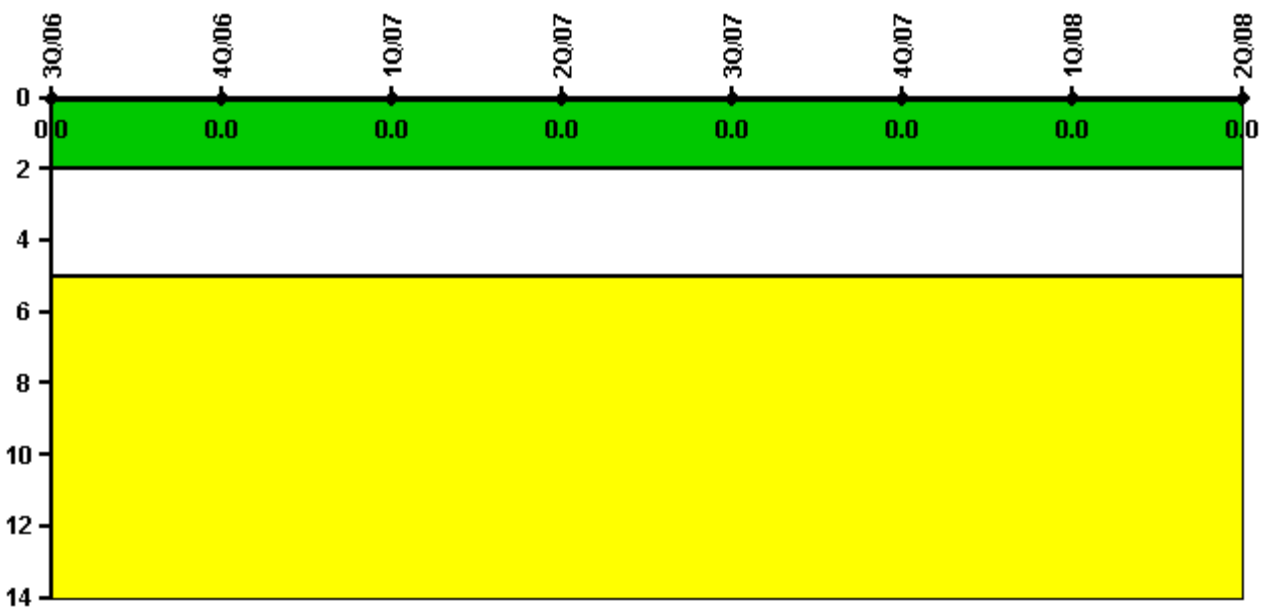
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful siren-tests	539	476	543	474	539	476	543	472
Total sirens-tests	544	476	544	476	544	476	544	476
Indicator value	99.3%	99.5%	99.6%	99.6%	99.6%	99.6%	99.6%	99.5%

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.

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

Last Modified: August 4, 2008

Surry 1

3Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



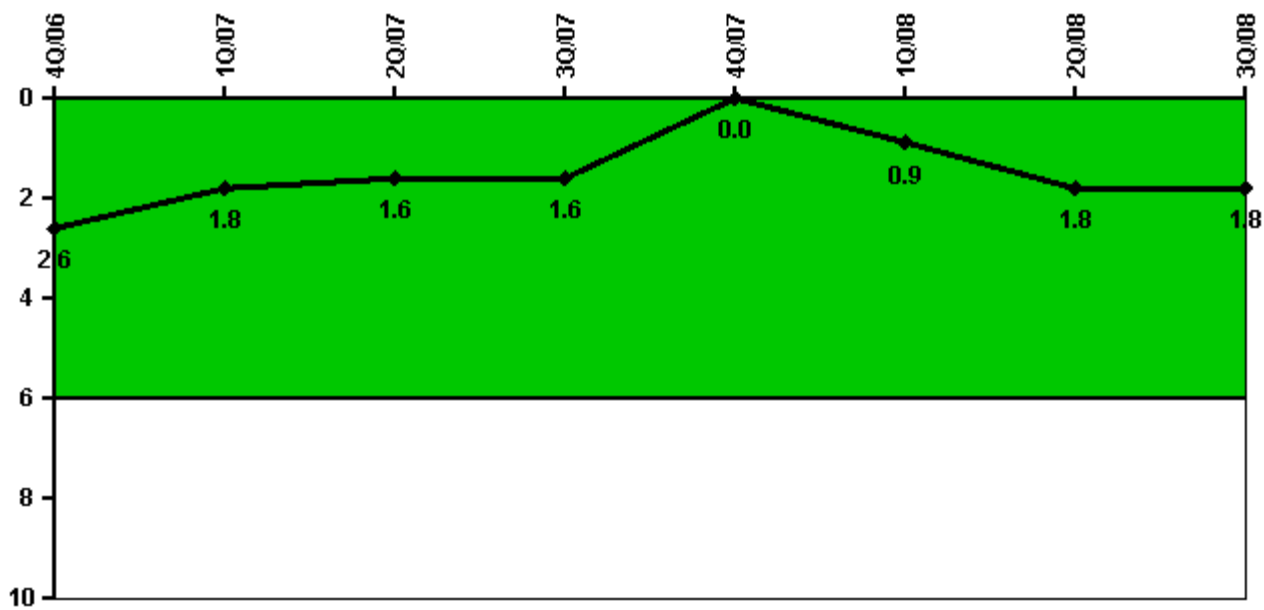
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2209.0	2133.5	2184.0	2208.0	1236.0	2183.0	2081.1	2208.0
Indicator value	0	0	0	0	0	0	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



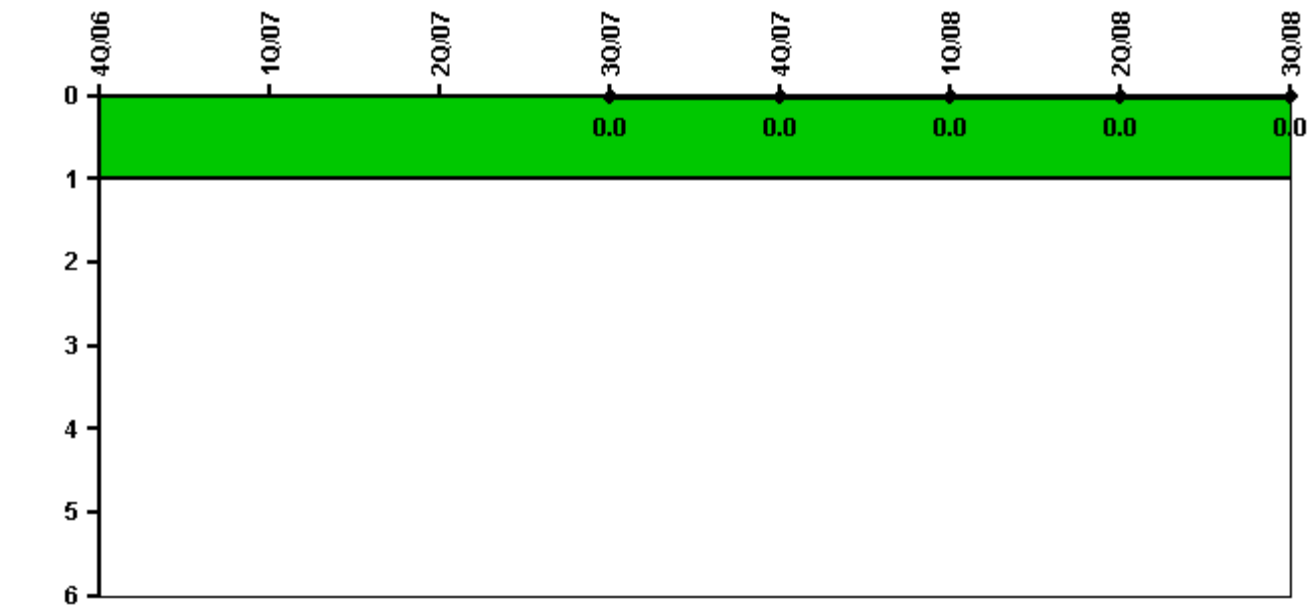
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned power changes	2.0	0	0	0	0	1.0	1.0	0
Critical hours	2209.0	2133.5	2184.0	2208.0	1236.0	2183.0	2081.1	2208.0
Indicator value	2.6	1.8	1.6	1.6	0	0.9	1.8	1.8

Licensee Comments: none

Unplanned Scrams with Complications



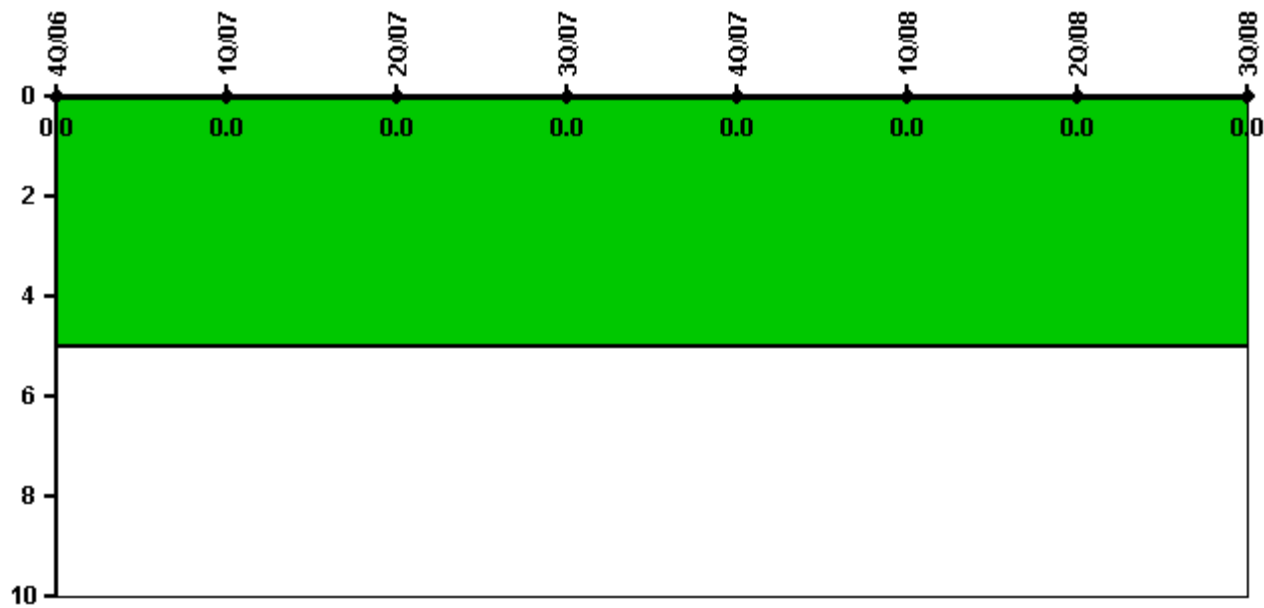
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



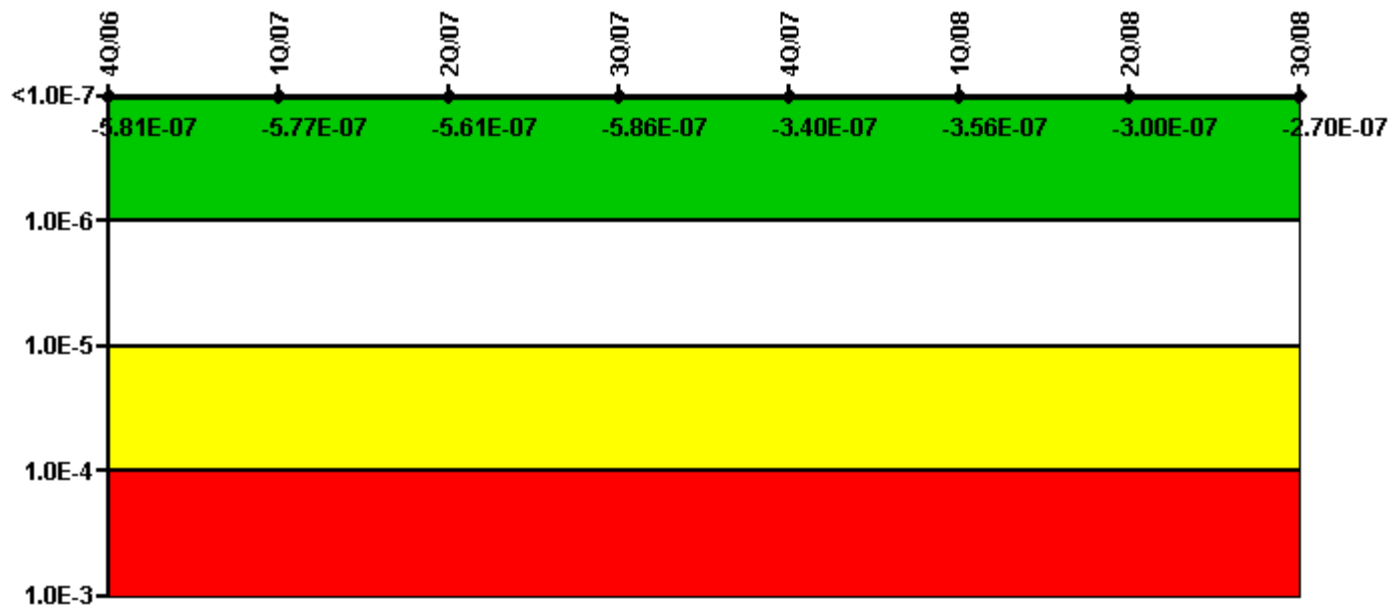
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

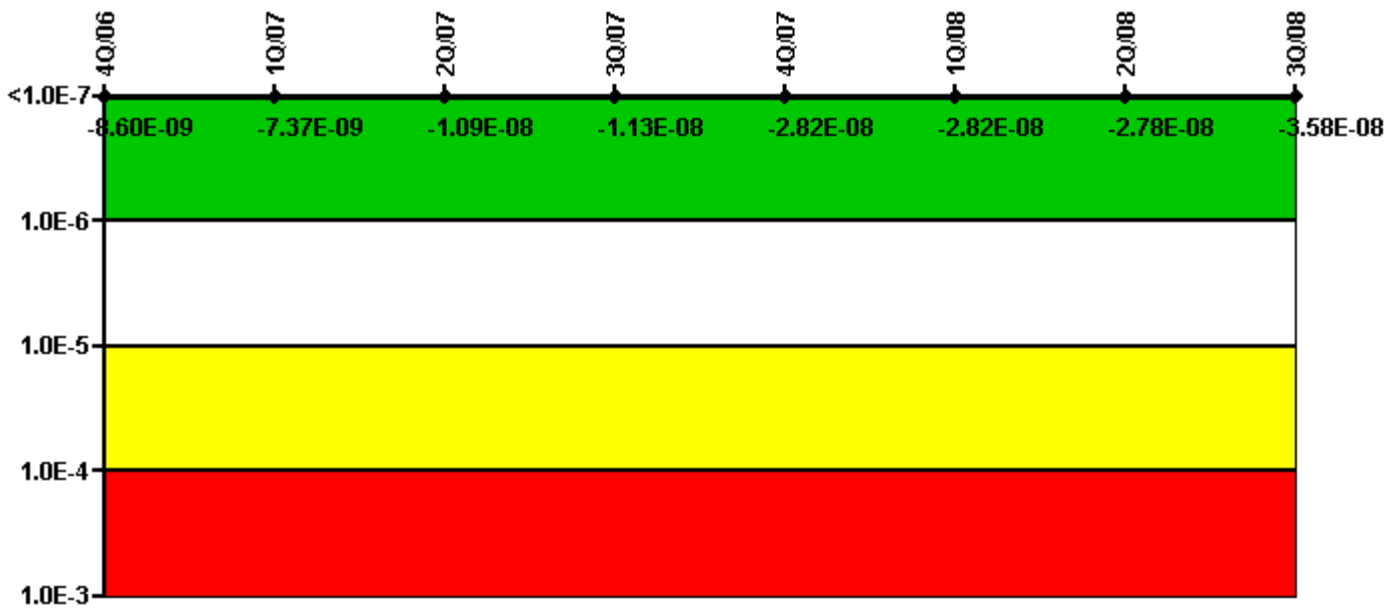
Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	5.90E-08	5.30E-08	5.90E-08	1.40E-08	1.00E-07	8.40E-08	1.50E-07	1.80E-07
URI (ΔCDF)	-6.40E-07	-6.30E-07	-6.20E-07	-6.00E-07	-4.40E-07	-4.40E-07	-4.50E-07	-4.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.81E-07	-5.77E-07	-5.61E-07	-5.86E-07	-3.40E-07	-3.56E-07	-3.00E-07	-2.70E-07

Licensee Comments:

3Q/08: A self assessment revealed missing data for a diesel surveillance test in March 2008. Also corrected was a PRA parameter for 1st quarter 2008. Historical data was corrected with no change in color.

Mitigating Systems Performance Index, High Pressure Injection System



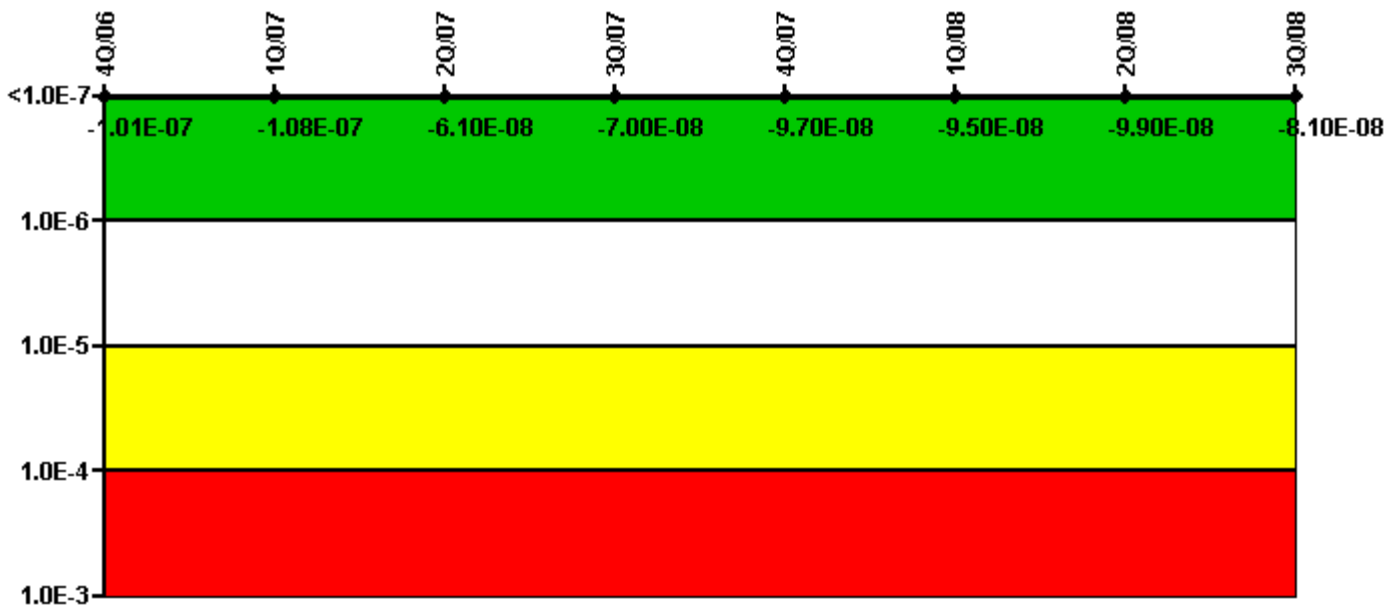
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-2.30E-09	-7.70E-10	-9.20E-10	-1.30E-09	-2.20E-09	-2.20E-09	-1.80E-09	-1.80E-09
URI (ΔCDF)	-6.30E-09	-6.60E-09	-1.00E-08	-1.00E-08	-2.60E-08	-2.60E-08	-2.60E-08	-3.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.60E-09	-7.37E-09	-1.09E-08	-1.13E-08	-2.82E-08	-2.82E-08	-2.78E-08	-3.58E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



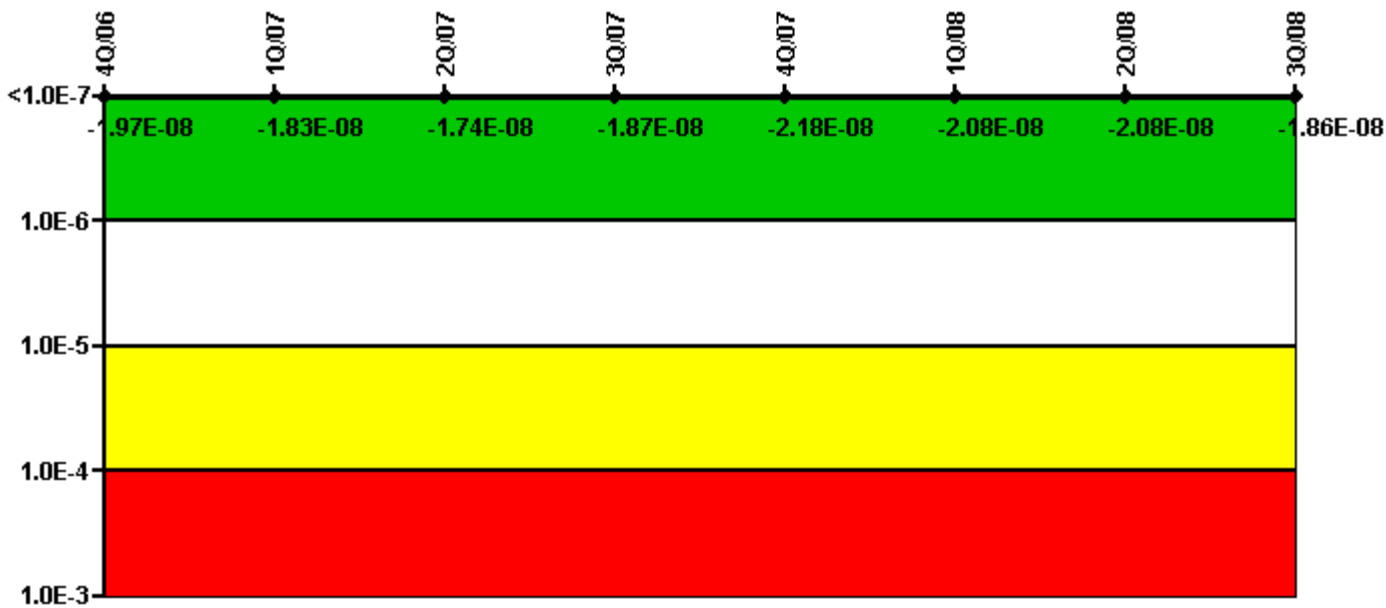
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	-6.30E-10	-8.10E-09	3.90E-08	4.00E-08	2.30E-08	2.50E-08	2.10E-08	3.90E-08
URI (ΔCDF)	-1.00E-07	-1.00E-07	-1.00E-07	-1.10E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.01E-07	-1.08E-07	-6.10E-08	-7.00E-08	-9.70E-08	-9.50E-08	-9.90E-08	-8.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



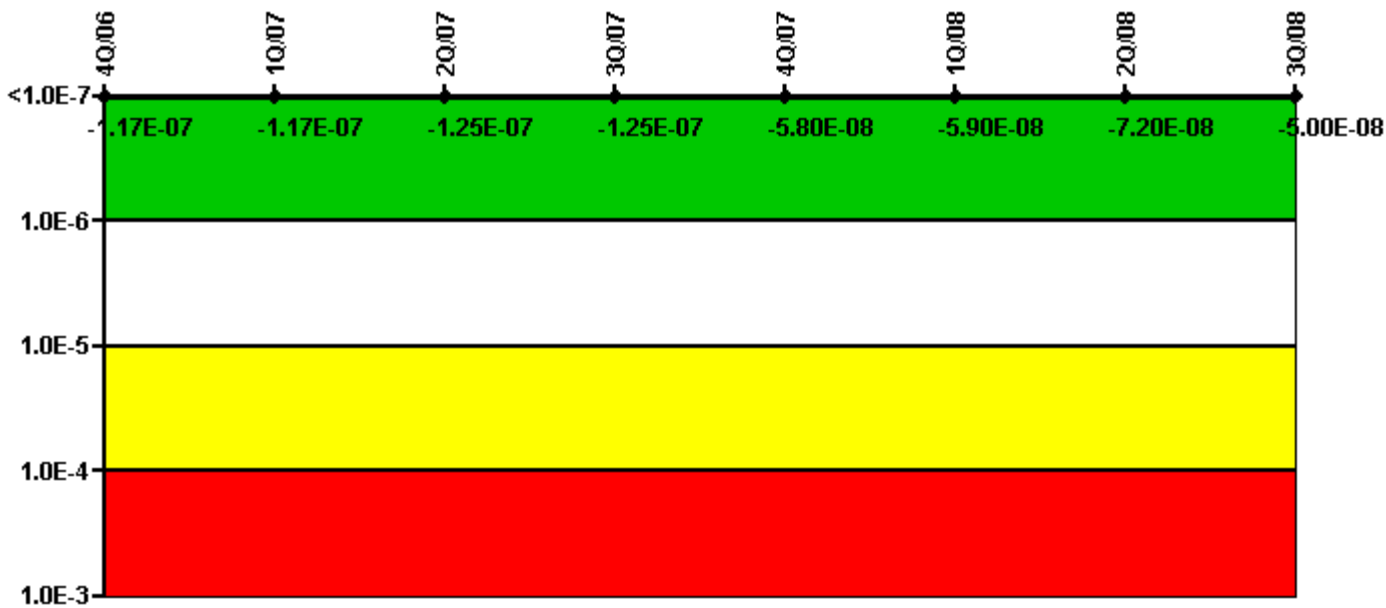
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	-4.70E-09	-3.30E-09	-3.40E-09	-4.70E-09	-4.80E-09	-4.80E-09	-4.80E-09	-2.60E-09
URI (ΔCDF)	-1.50E-08	-1.50E-08	-1.40E-08	-1.40E-08	-1.70E-08	-1.60E-08	-1.60E-08	-1.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.97E-08	-1.83E-08	-1.74E-08	-1.87E-08	-2.18E-08	-2.08E-08	-2.08E-08	-1.86E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



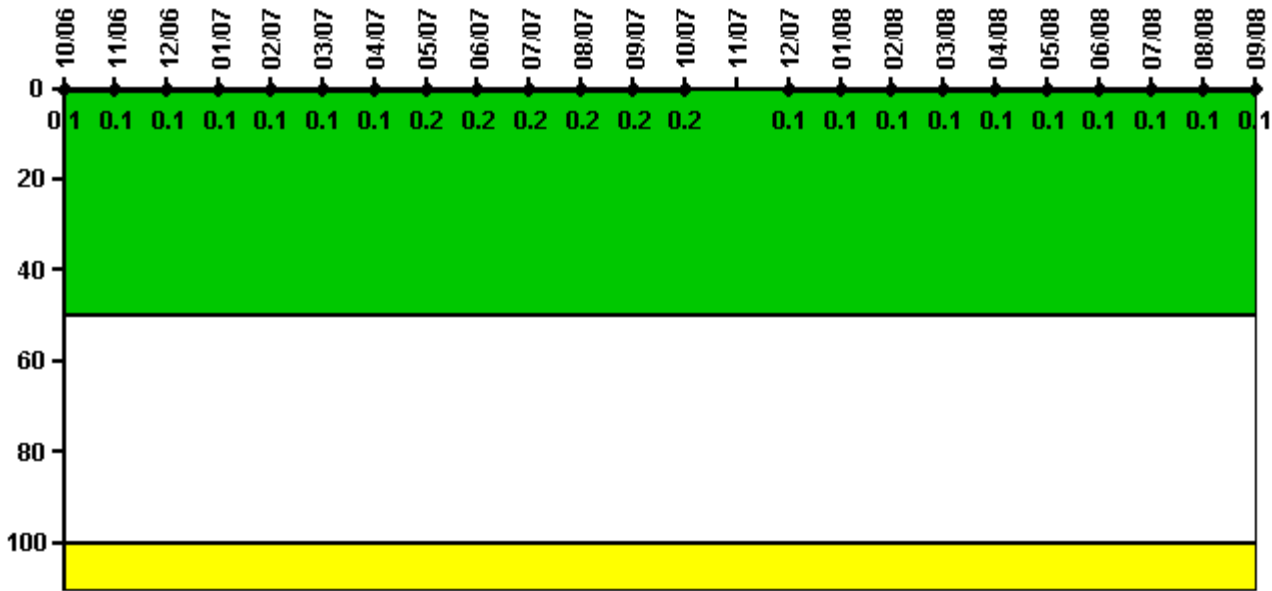
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	2.70E-09	2.70E-09	4.80E-09	5.00E-09	9.20E-08	9.10E-08	7.80E-08	1.00E-07
URI (ΔCDF)	-1.20E-07	-1.20E-07	-1.30E-07	-1.30E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.17E-07	-1.17E-07	-1.25E-07	-1.25E-07	-5.80E-08	-5.90E-08	-7.20E-08	-5.00E-08

Licensee Comments: none

Reactor Coolant System Activity



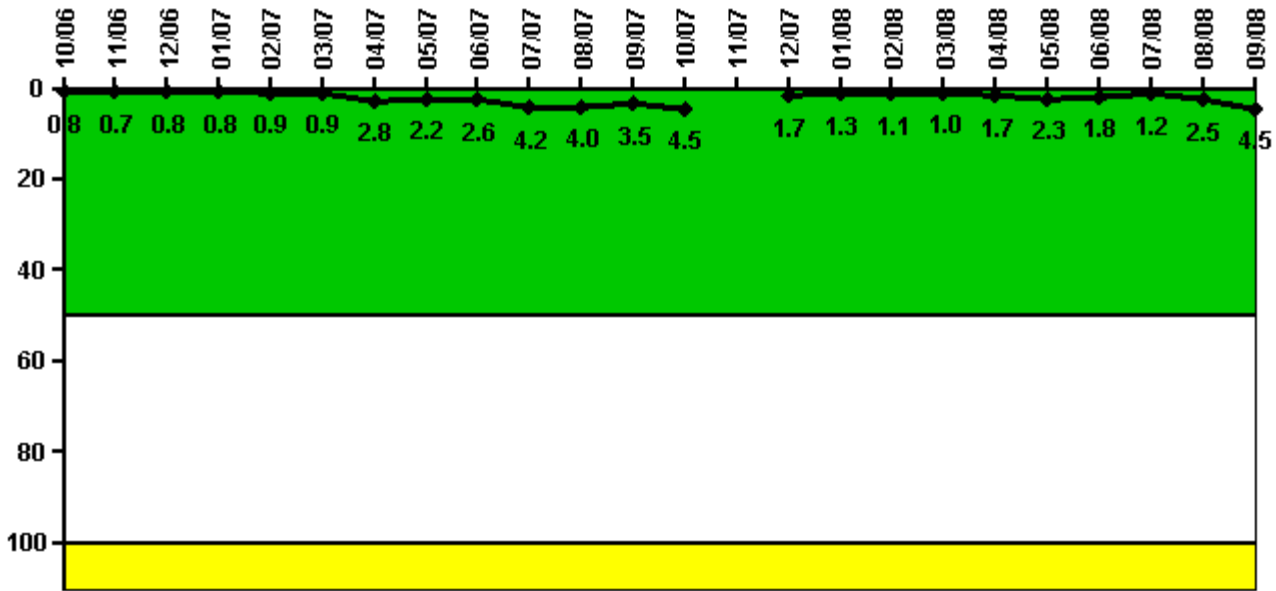
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum activity	0.001060	0.001120	0.001180	0.001220	0.001300	0.001420	0.001430	0.001560	0.001520	0.001620	0.002360	0.001630
Technical specification limit	1.0	1.0	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	0.2	0.2	0.2	0.2	0.2
Reactor Coolant System Activity	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum activity	0.001750	N/A	0.001060	0.001250	0.001120	0.000964	0.000905	0.001270	0.001210	0.001070	0.001030	0.001100
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	N/A	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



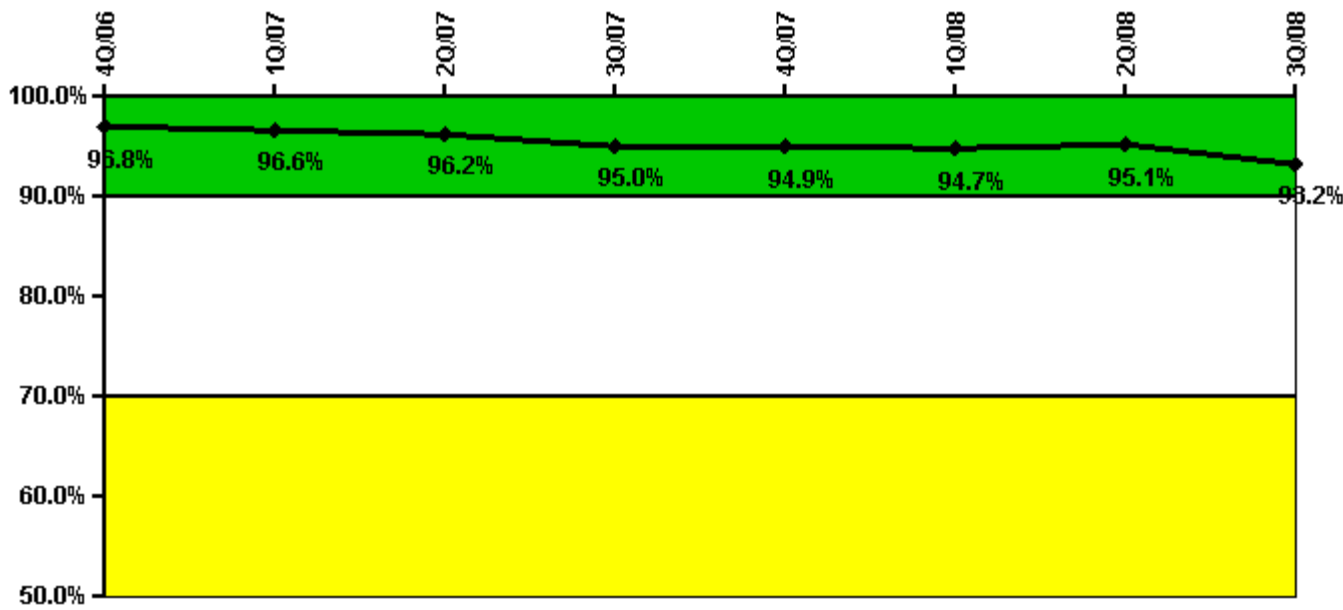
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.080	0.070	0.080	0.080	0.090	0.090	0.280	0.220	0.260	0.420	0.400	0.350
Technical specification limit	10.0	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	0.7	0.8	0.8	0.9	0.9	2.8	2.2	2.6	4.2	4.0	3.5
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	0.450	N/A	0.170	0.130	0.110	0.100	0.170	0.230	0.180	0.120	0.250	0.450
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	4.5	N/A	1.7	1.3	1.1	1.0	1.7	2.3	1.8	1.2	2.5	4.5

Licensee Comments: none

Drill/Exercise Performance



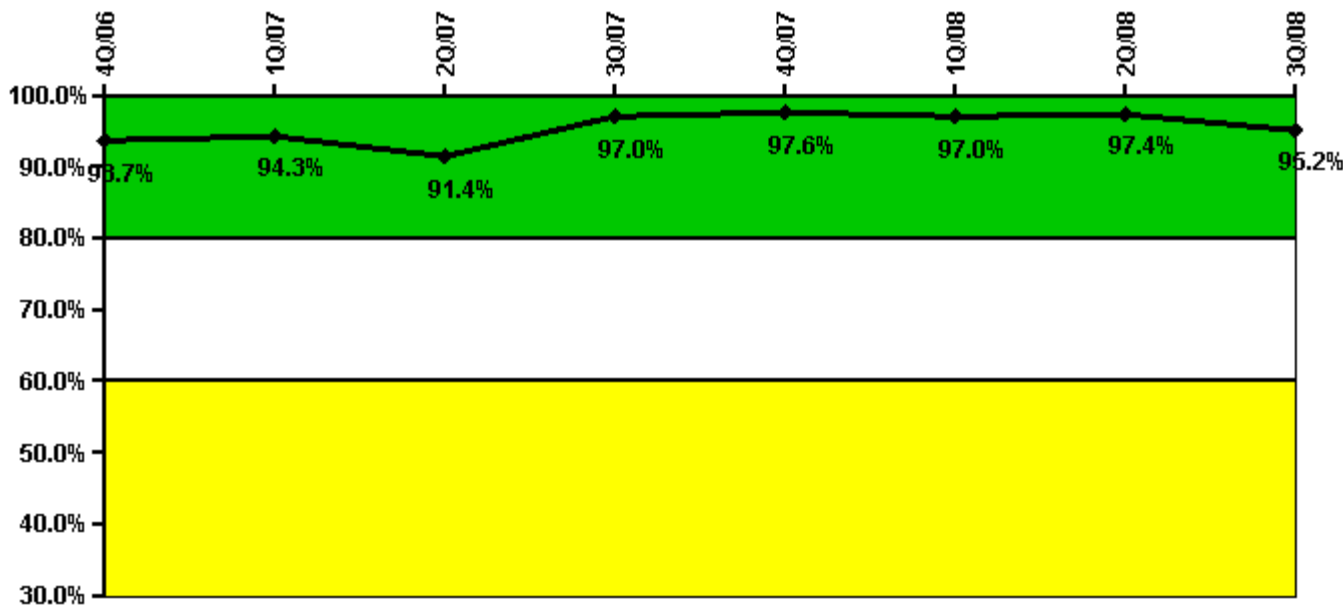
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful opportunities	1.0	32.0	25.0	18.0	24.0	43.0	41.0	37.0
Total opportunities	3.0	34.0	26.0	20.0	24.0	45.0	42.0	43.0
Indicator value	96.8%	96.6%	96.2%	95.0%	94.9%	94.7%	95.1%	93.2%

Licensee Comments: none

ERO Drill Participation



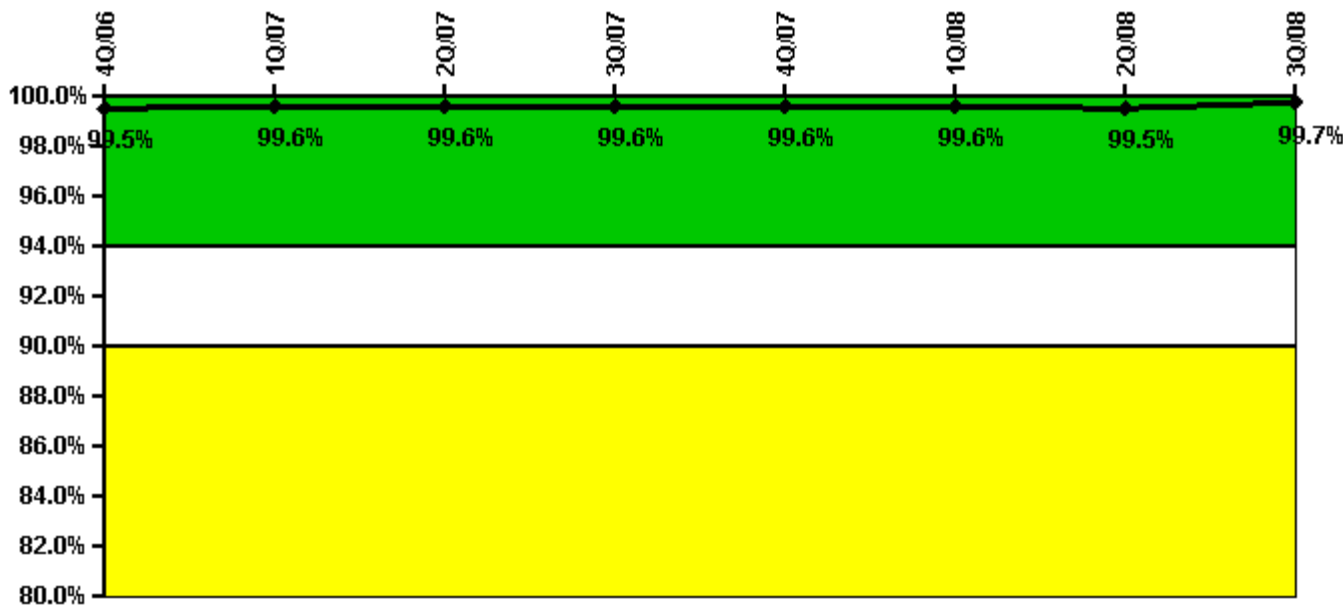
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Participating Key personnel	149.0	164.0	159.0	164.0	160.0	128.0	149.0	138.0
Total Key personnel	159.0	174.0	174.0	169.0	164.0	132.0	153.0	145.0
Indicator value	93.7%	94.3%	91.4%	97.0%	97.6%	97.0%	97.4%	95.2%

Licensee Comments: none

Alert & Notification System



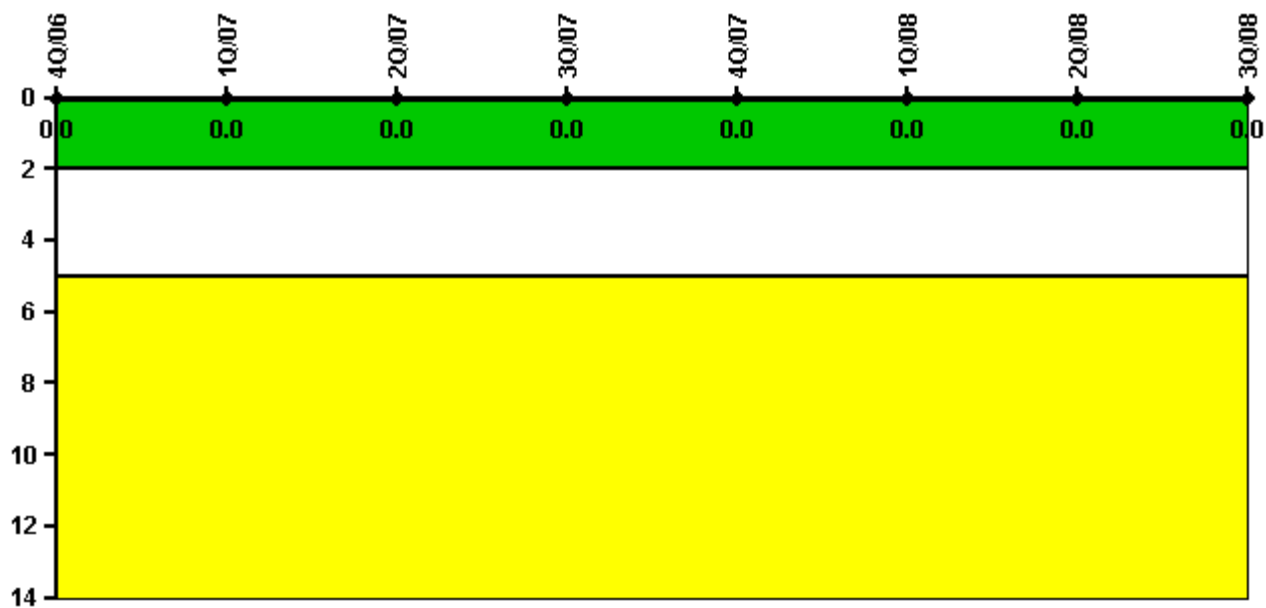
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful siren-tests	476	543	474	539	476	543	472	475
Total sirens-tests	476	544	476	544	476	544	476	476
Indicator value	99.5%	99.6%	99.6%	99.6%	99.6%	99.6%	99.5%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



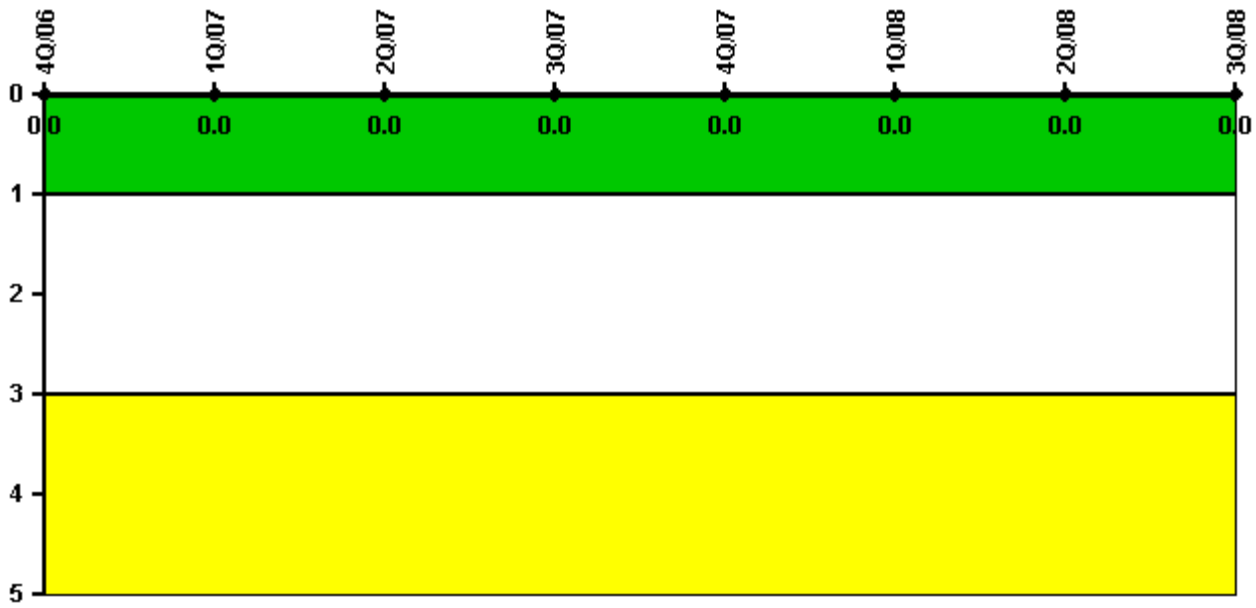
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

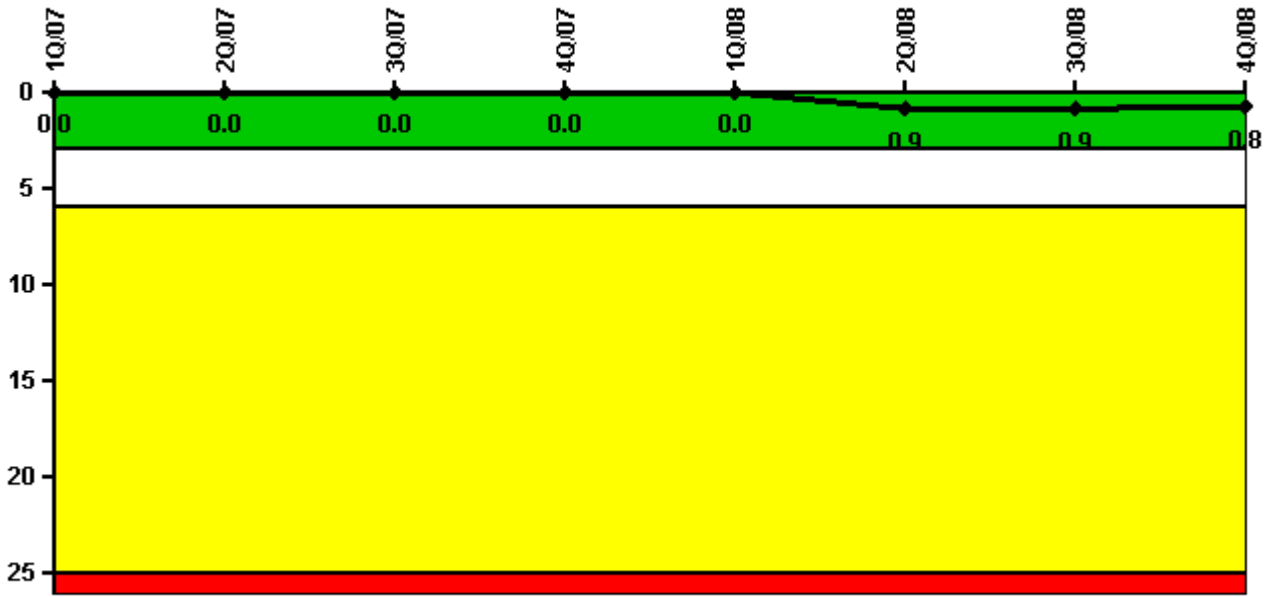
[Security](#) information not publicly available.

Surry 1

4Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



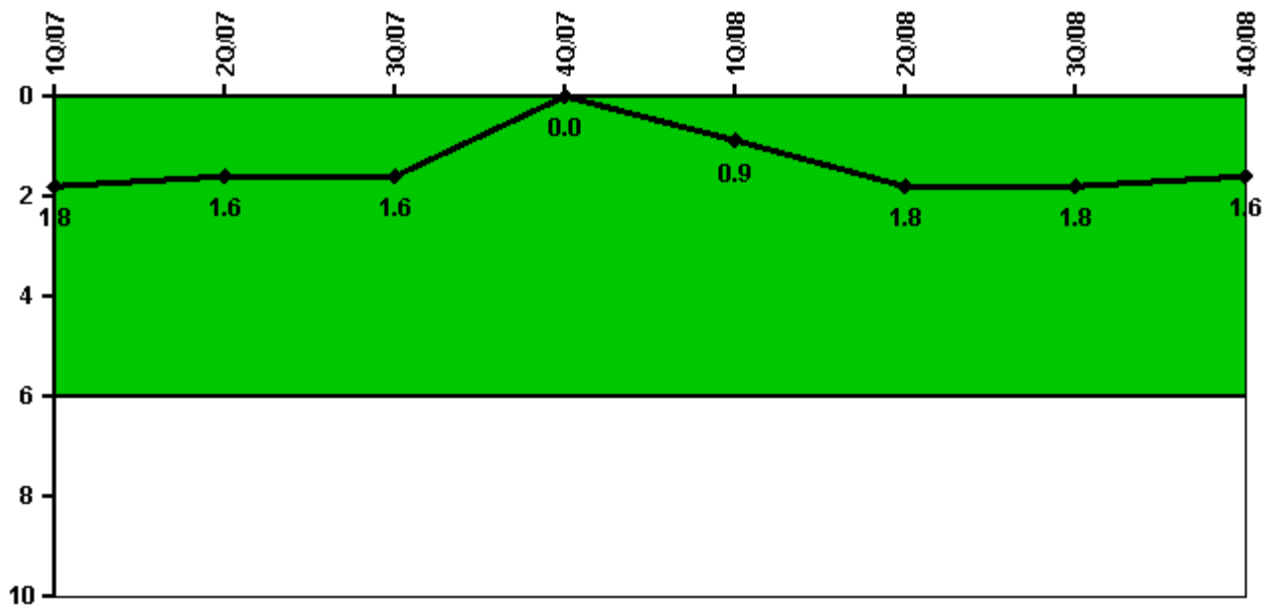
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2133.5	2184.0	2208.0	1236.0	2183.0	2081.1	2208.0	2118.0
Indicator value	0	0	0	0	0	0.9	0.9	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



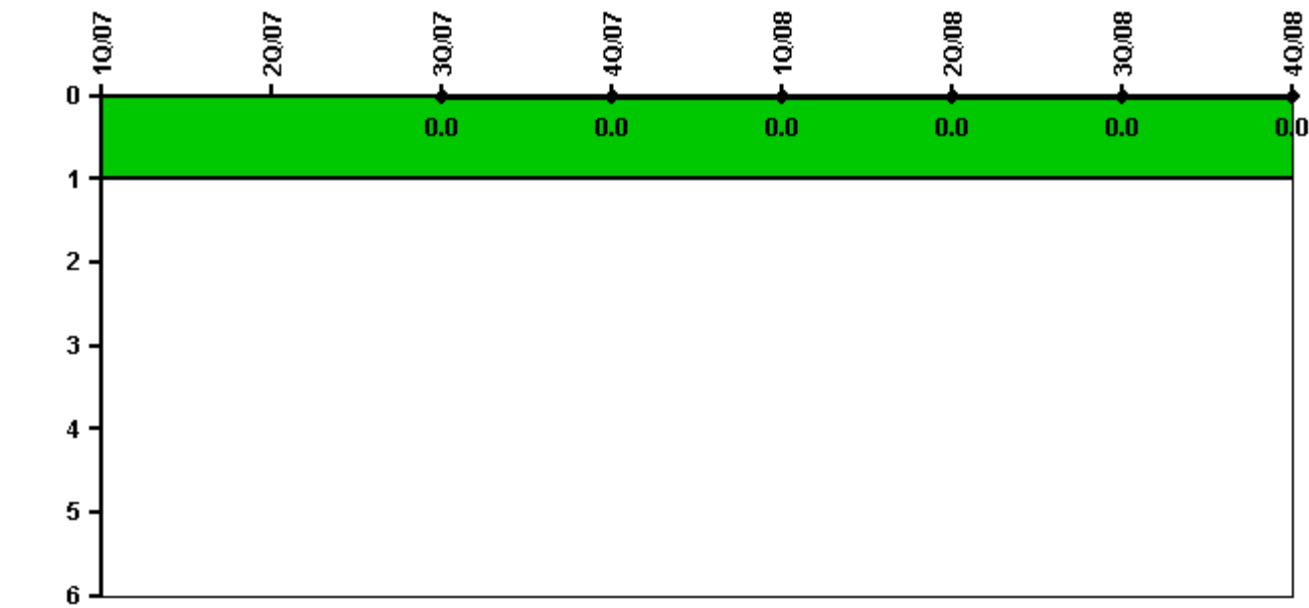
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned power changes	0	0	0	0	1.0	1.0	0	0
Critical hours	2133.5	2184.0	2208.0	1236.0	2183.0	2081.1	2208.0	2118.0
Indicator value	1.8	1.6	1.6	0	0.9	1.8	1.8	1.6

Licensee Comments: none

Unplanned Scrams with Complications



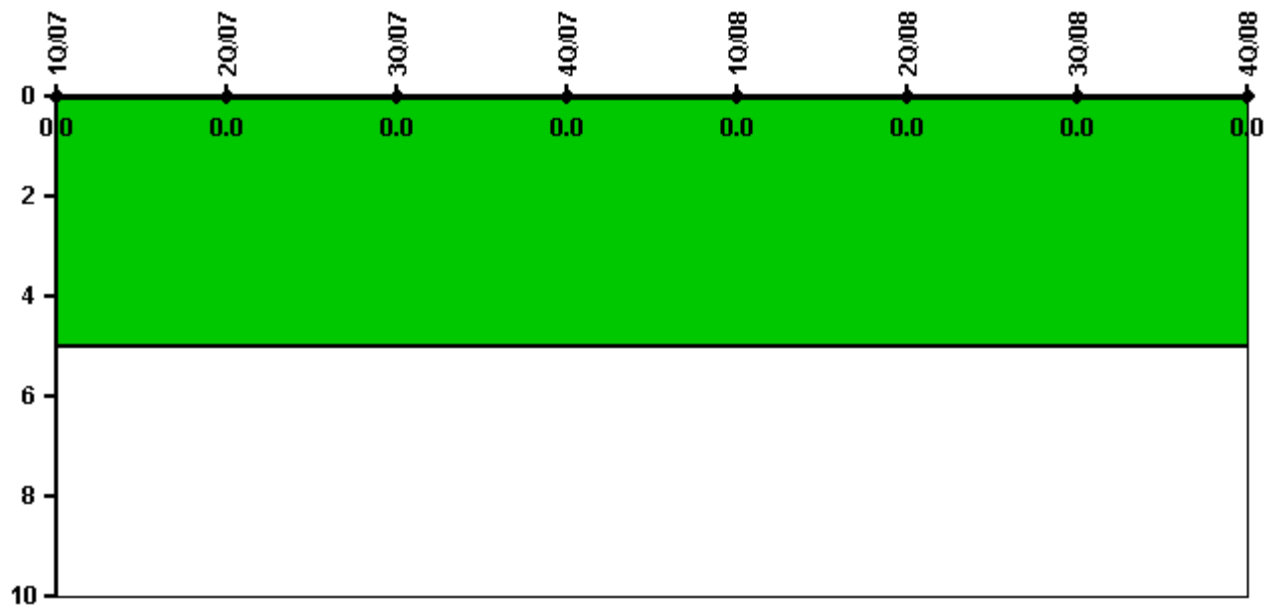
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



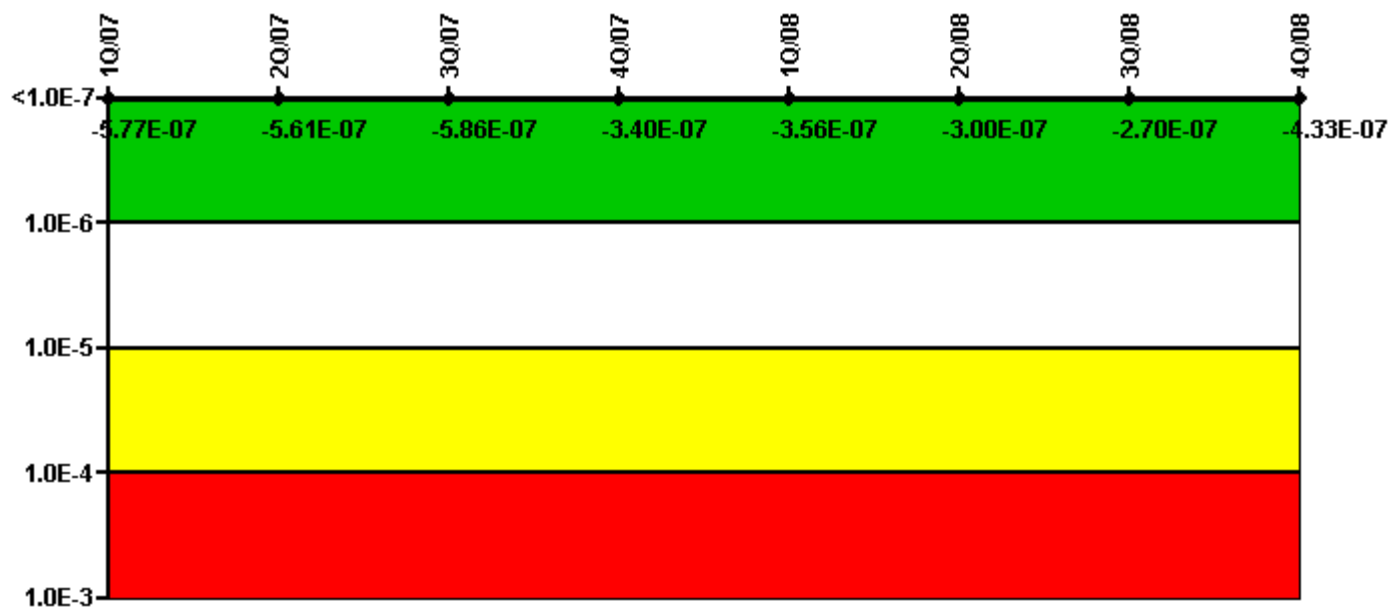
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



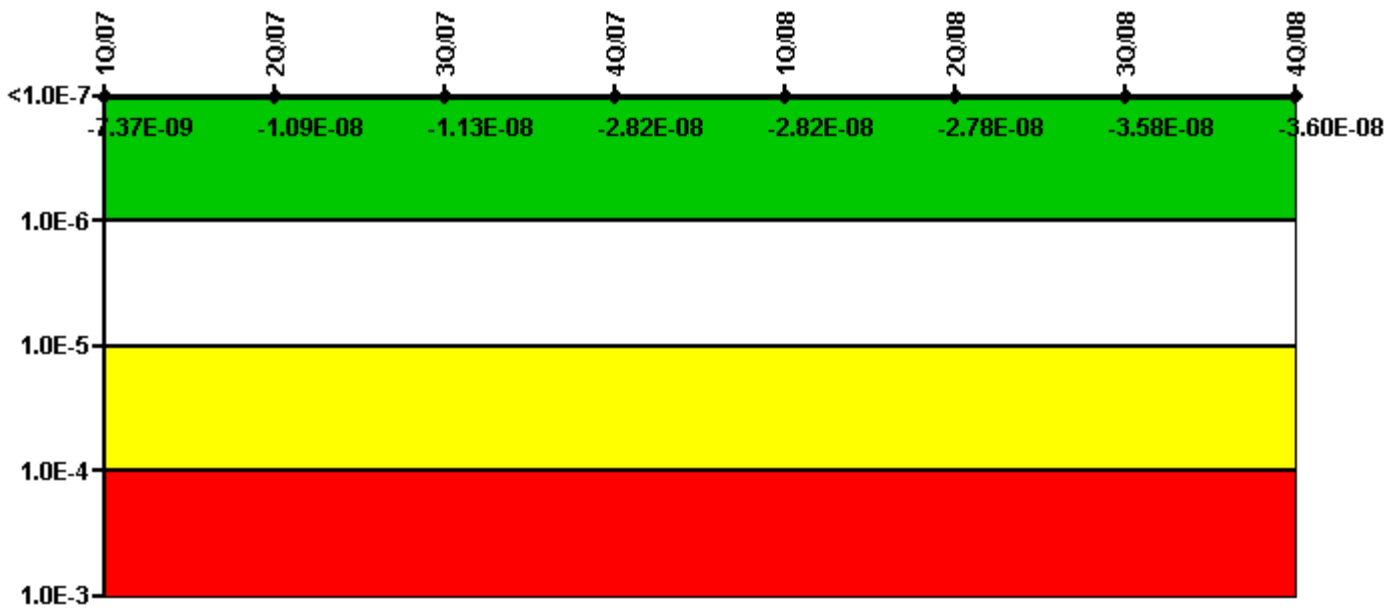
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	5.30E-08	5.90E-08	1.40E-08	1.00E-07	8.40E-08	1.50E-07	1.80E-07	1.70E-08
URI (ΔCDF)	-6.30E-07	-6.20E-07	-6.00E-07	-4.40E-07	-4.40E-07	-4.50E-07	-4.50E-07	-4.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.77E-07	-5.61E-07	-5.86E-07	-3.40E-07	-3.56E-07	-3.00E-07	-2.70E-07	-4.33E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



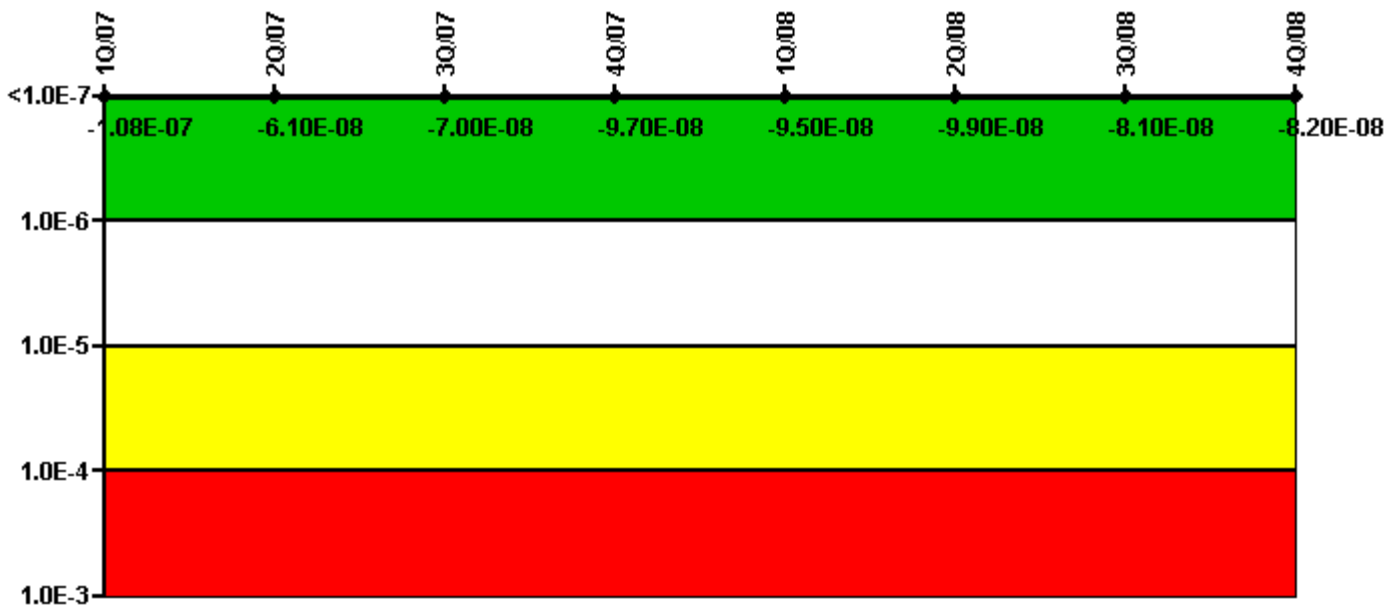
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-7.70E-10	-9.20E-10	-1.30E-09	-2.20E-09	-2.20E-09	-1.80E-09	-1.80E-09	-2.00E-09
URI (ΔCDF)	-6.60E-09	-1.00E-08	-1.00E-08	-2.60E-08	-2.60E-08	-2.60E-08	-3.40E-08	-3.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.37E-09	-1.09E-08	-1.13E-08	-2.82E-08	-2.82E-08	-2.78E-08	-3.58E-08	-3.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



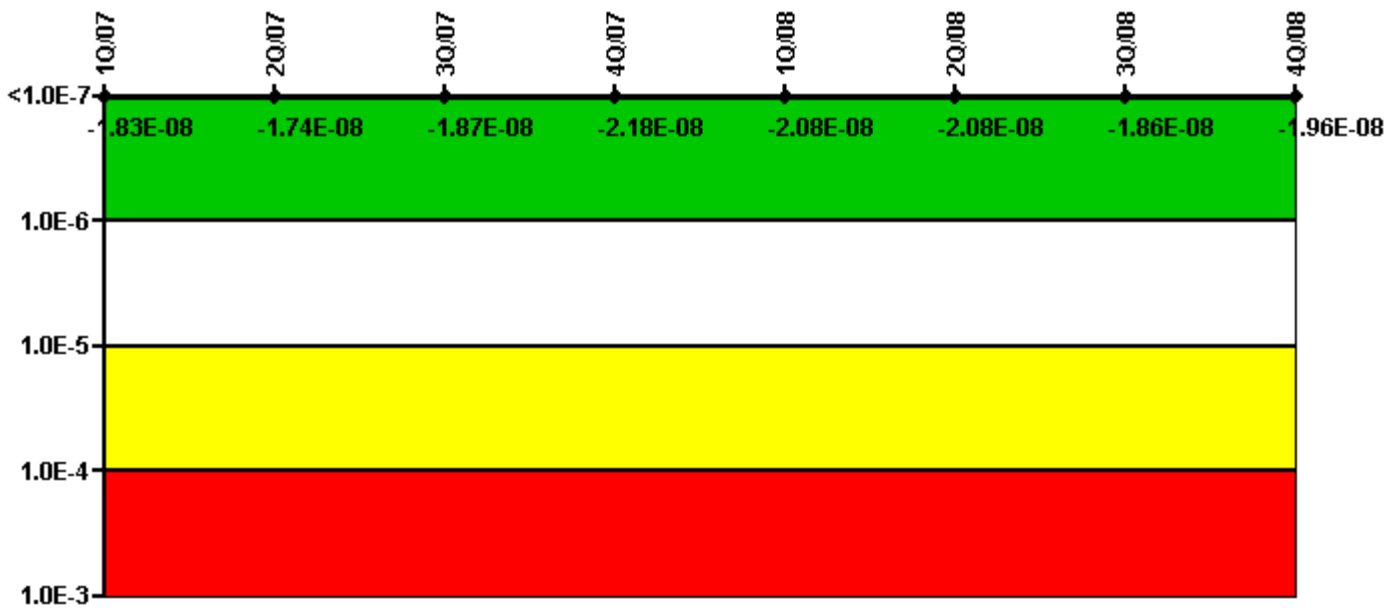
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	-8.10E-09	3.90E-08	4.00E-08	2.30E-08	2.50E-08	2.10E-08	3.90E-08	3.80E-08
URI (ΔCDF)	-1.00E-07	-1.00E-07	-1.10E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.08E-07	-6.10E-08	-7.00E-08	-9.70E-08	-9.50E-08	-9.90E-08	-8.10E-08	-8.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



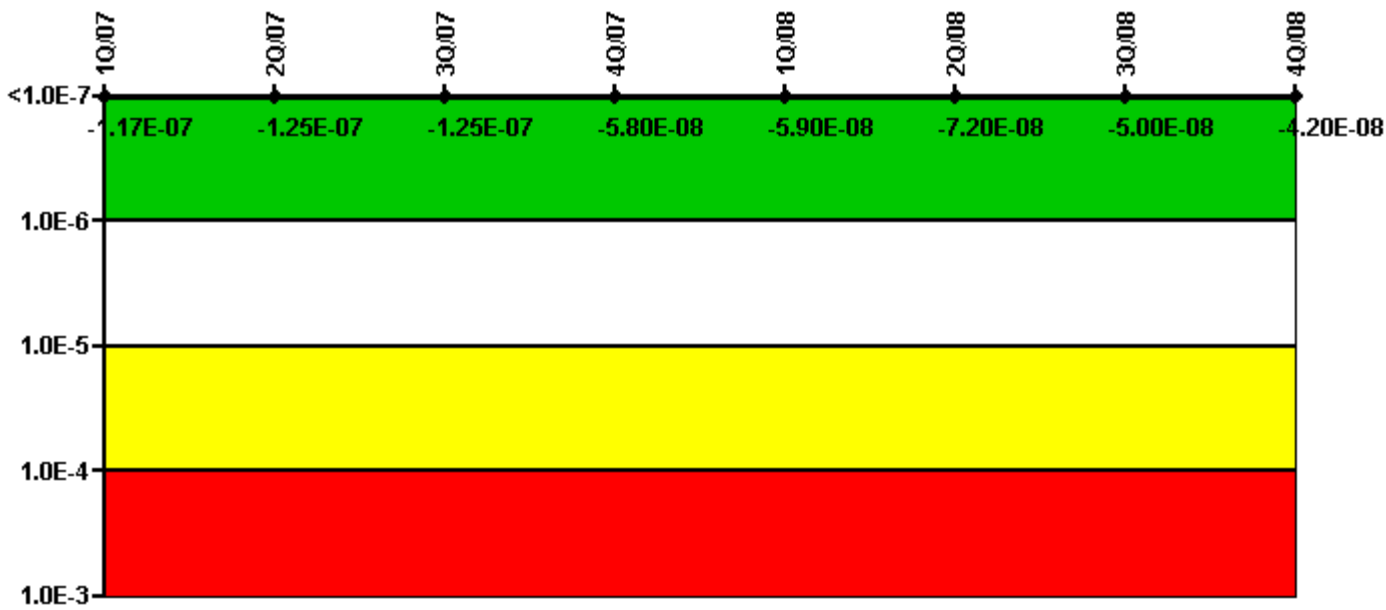
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	-3.30E-09	-3.40E-09	-4.70E-09	-4.80E-09	-4.80E-09	-4.80E-09	-2.60E-09	-4.60E-09
URI (ΔCDF)	-1.50E-08	-1.40E-08	-1.40E-08	-1.70E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.83E-08	-1.74E-08	-1.87E-08	-2.18E-08	-2.08E-08	-2.08E-08	-1.86E-08	-1.96E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



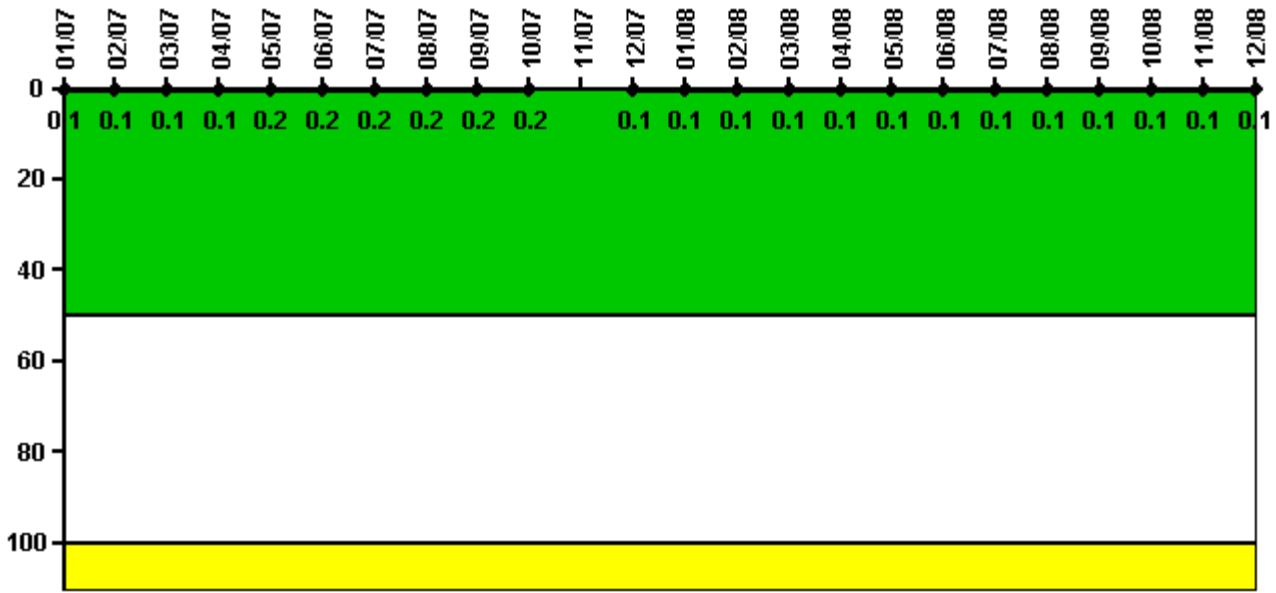
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	2.70E-09	4.80E-09	5.00E-09	9.20E-08	9.10E-08	7.80E-08	1.00E-07	9.80E-08
URI (ΔCDF)	-1.20E-07	-1.30E-07	-1.30E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.17E-07	-1.25E-07	-1.25E-07	-5.80E-08	-5.90E-08	-7.20E-08	-5.00E-08	-4.20E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

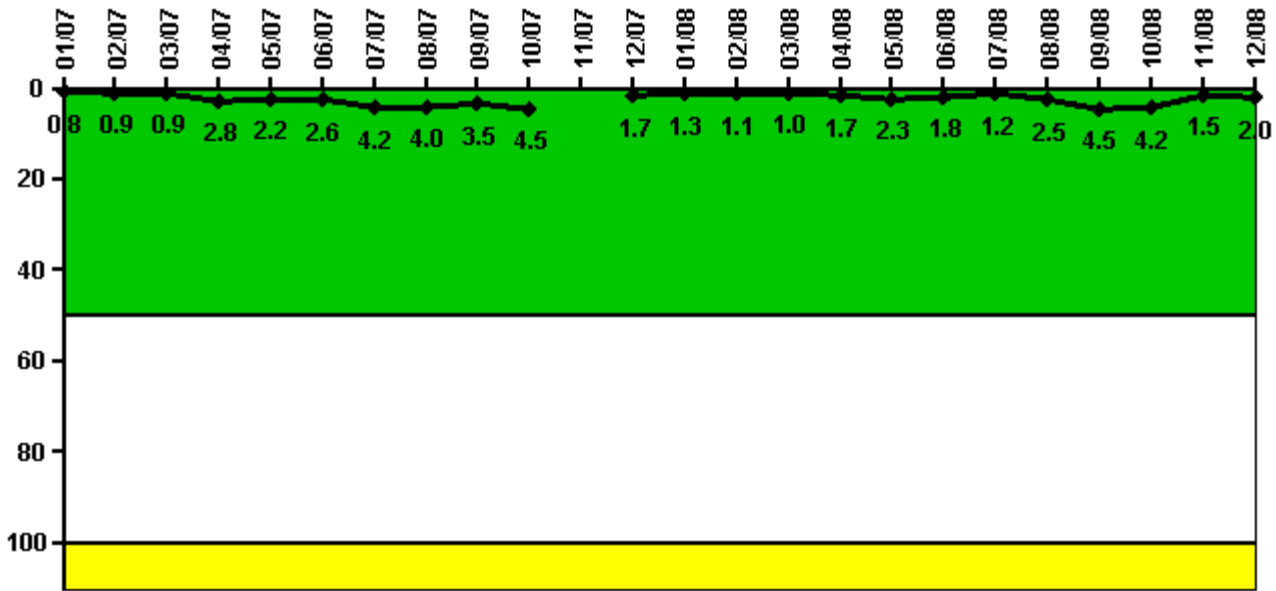
Notes

Reactor Coolant System Activity	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum activity	0.001220	0.001300	0.001420	0.001430	0.001560	0.001520	0.001620	0.002360	0.001630	0.001750	N/A	0.001060
Technical specification limit	1.0	1.0	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	0.2	0.2	0.2	0.2	0.2	0.2	N/A	0.1

Reactor Coolant System Activity	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum activity	0.001250	0.001120	0.000964	0.000905	0.001270	0.001210	0.001070	0.001030	0.001100	0.001140	0.001310	0.001410
Technical specification limit	1.0	1.0	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

Reactor Coolant System Leakage



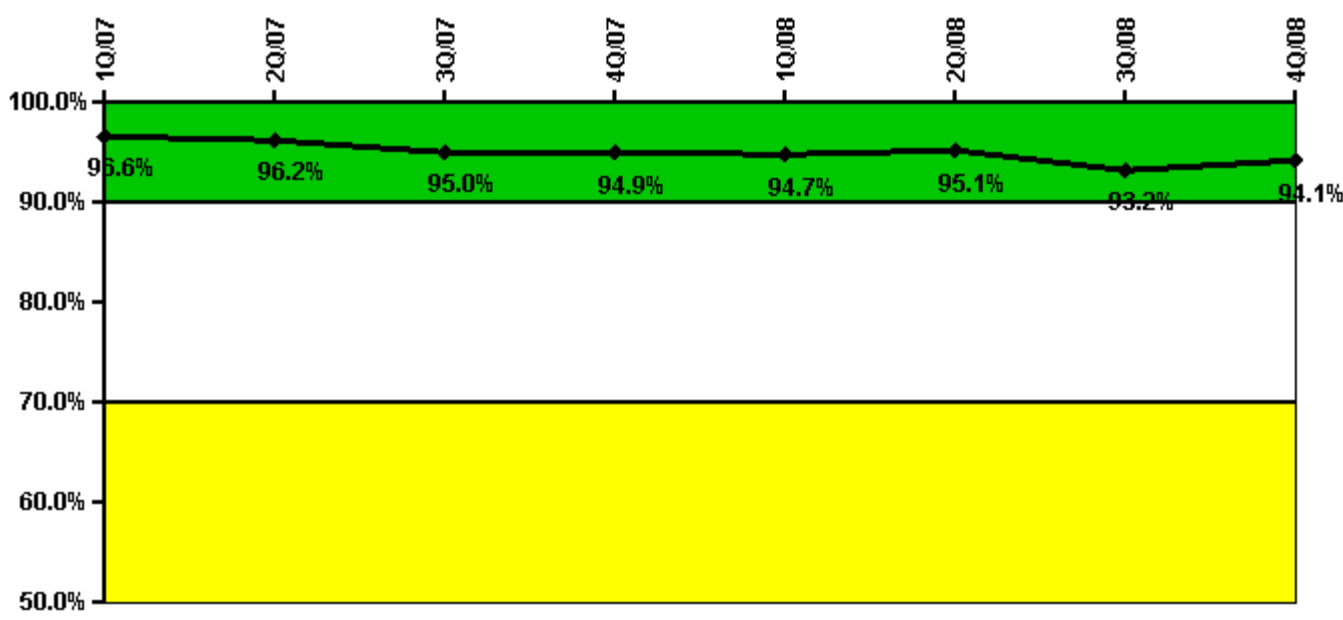
Thresholds: White > 50.0 Yellow > 100.0

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	0.080	0.090	0.090	0.280	0.220	0.260	0.420	0.400	0.350	0.450	N/A	0.170
Technical specification limit	10.0	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	0.9	2.8	2.2	2.6	4.2	4.0	3.5	4.5	N/A	1.7
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	0.130	0.110	0.100	0.170	0.230	0.180	0.120	0.250	0.450	0.420	0.150	0.200
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.1	1.0	1.7	2.3	1.8	1.2	2.5	4.5	4.2	1.5	2.0

Licensee Comments: none

Drill/Exercise Performance



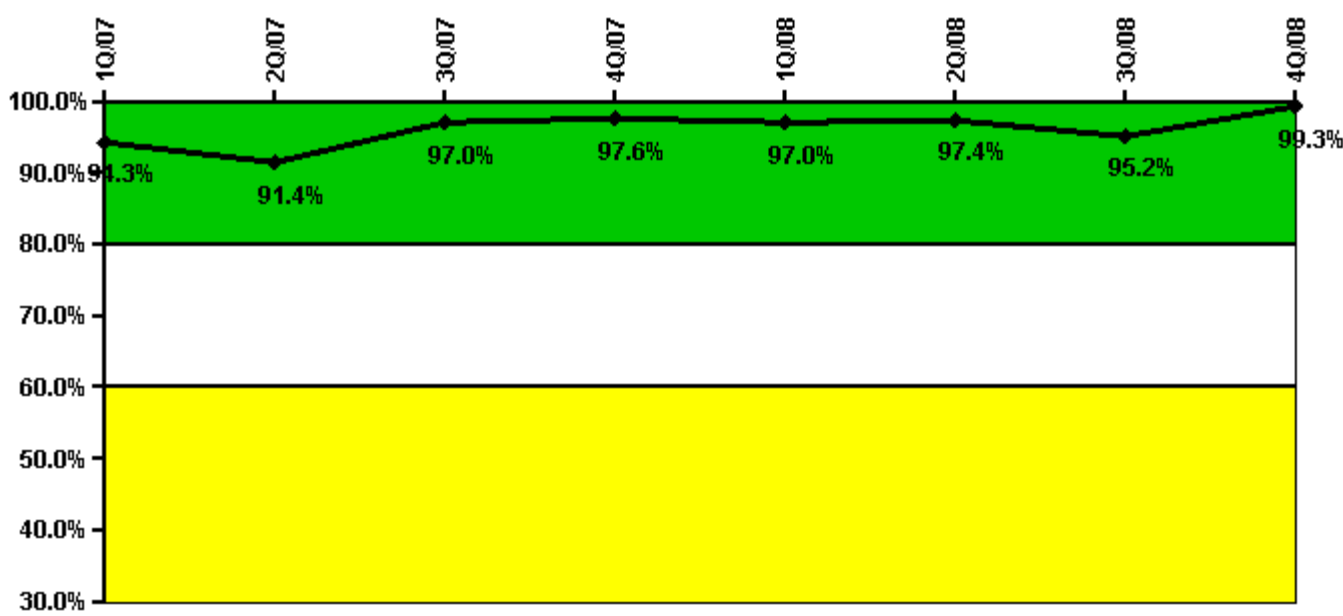
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful opportunities	32.0	25.0	18.0	24.0	43.0	41.0	37.0	20.0
Total opportunities	34.0	26.0	20.0	24.0	45.0	42.0	43.0	21.0
Indicator value	96.6%	96.2%	95.0%	94.9%	94.7%	95.1%	93.2%	94.1%

Licensee Comments: none

ERO Drill Participation



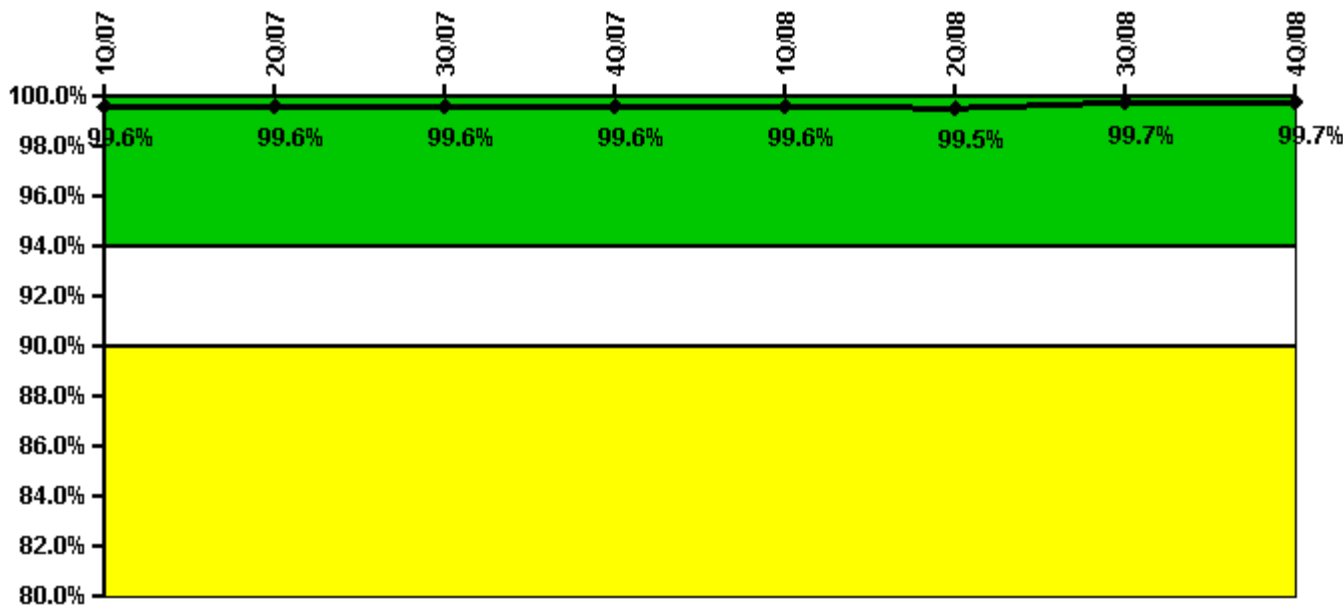
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Participating Key personnel	164.0	159.0	164.0	160.0	128.0	149.0	138.0	145.0
Total Key personnel	174.0	174.0	169.0	164.0	132.0	153.0	145.0	146.0
Indicator value	94.3%	91.4%	97.0%	97.6%	97.0%	97.4%	95.2%	99.3%

Licensee Comments: none

Alert & Notification System



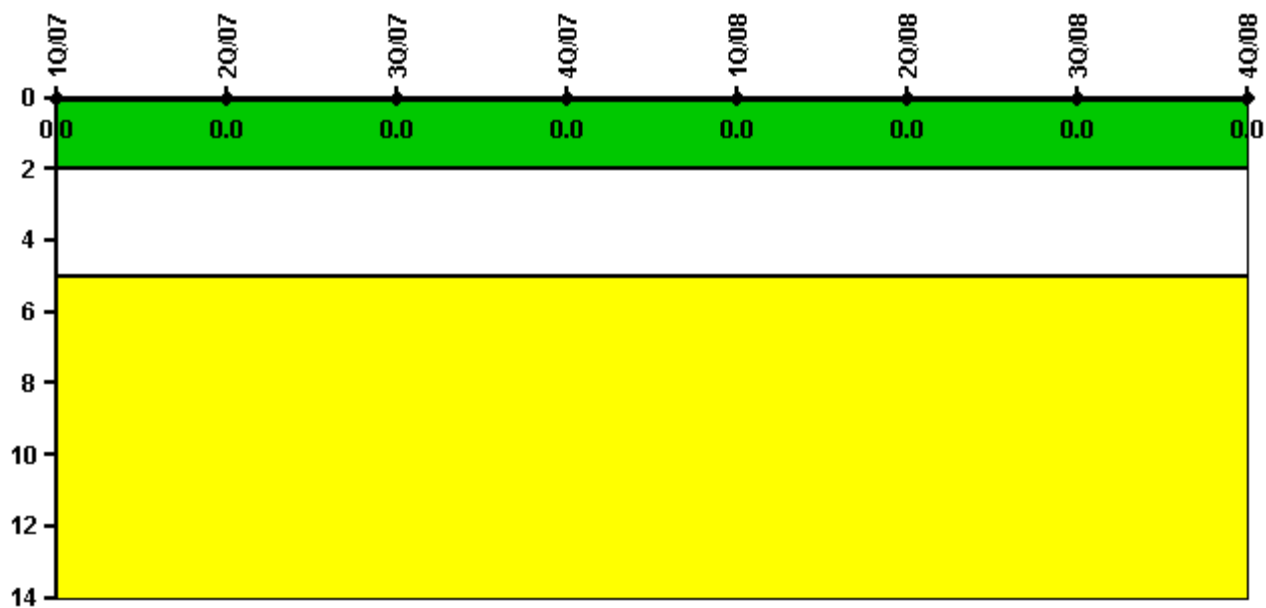
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful siren-tests	543	474	539	476	543	472	475	544
Total sirens-tests	544	476	544	476	544	476	476	544
Indicator value	99.6%	99.6%	99.6%	99.6%	99.6%	99.5%	99.7%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



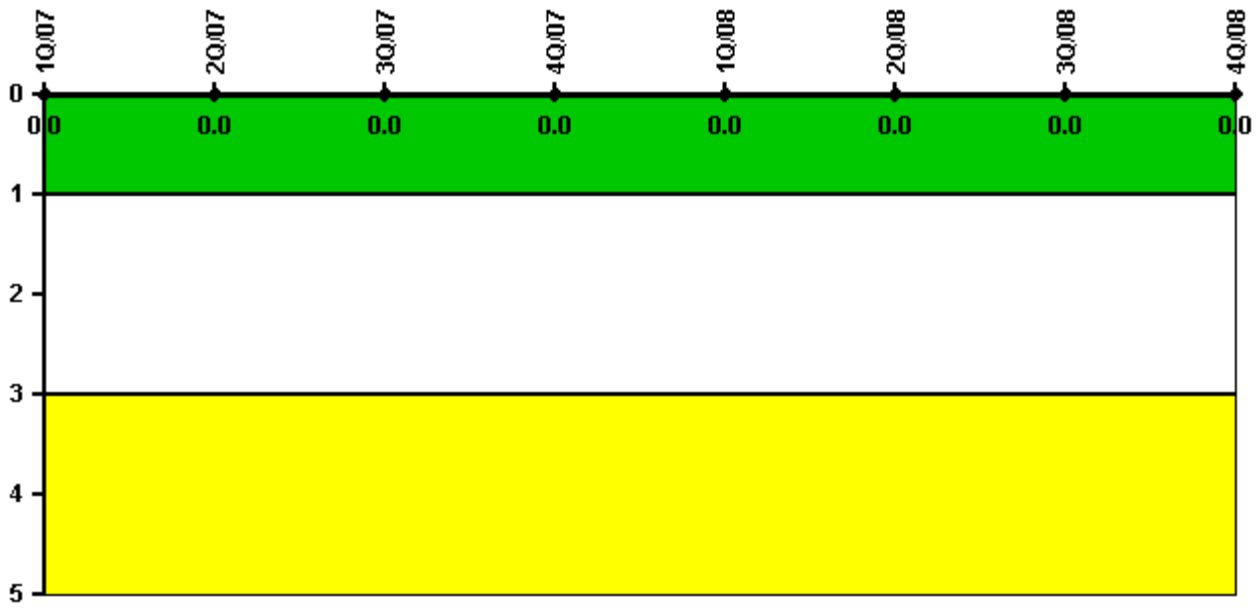
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

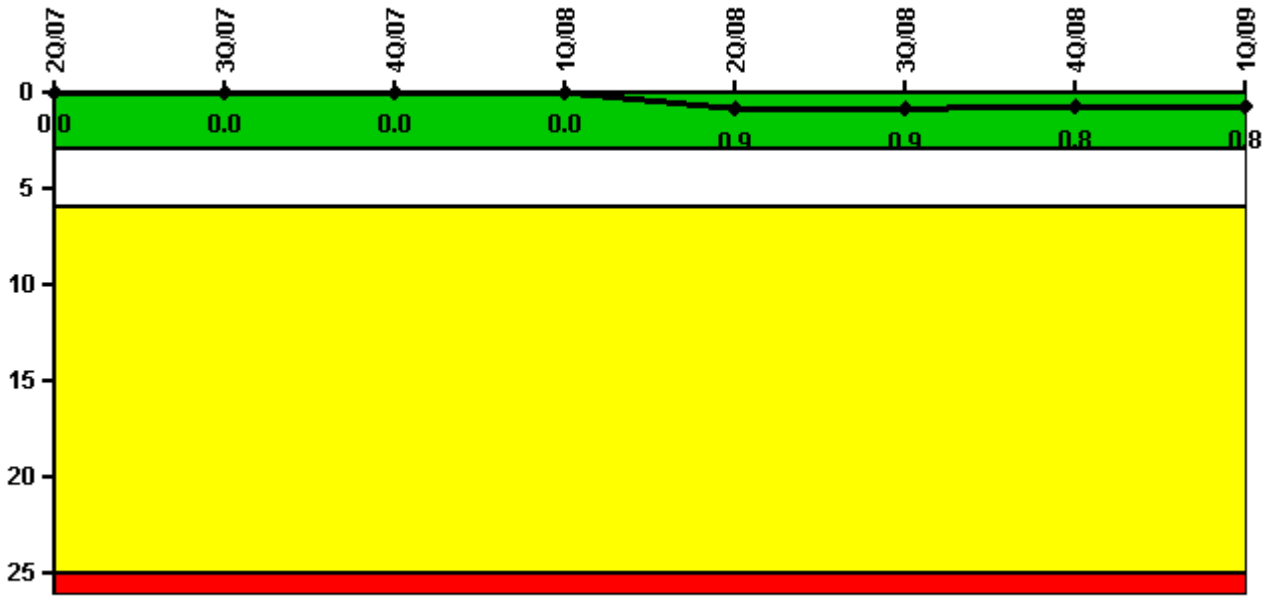
[Security](#) information not publicly available.

Surry 1

1Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



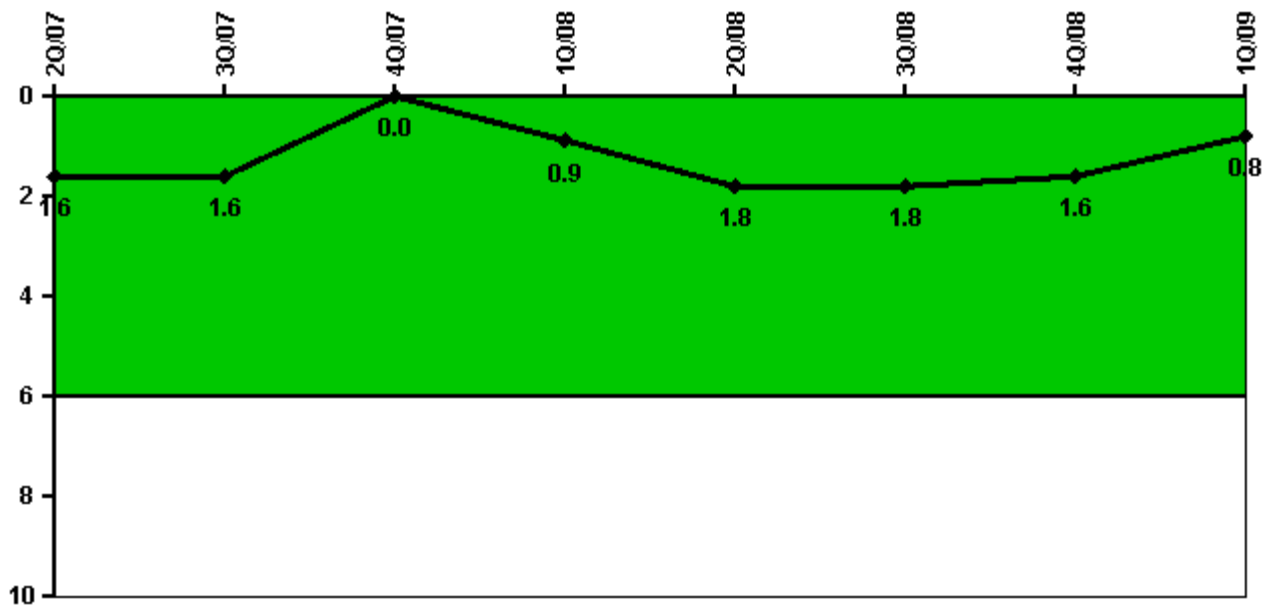
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2184.0	2208.0	1236.0	2183.0	2081.1	2208.0	2118.0	2159.0
Indicator value	0	0	0	0	0.9	0.9	0.8	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



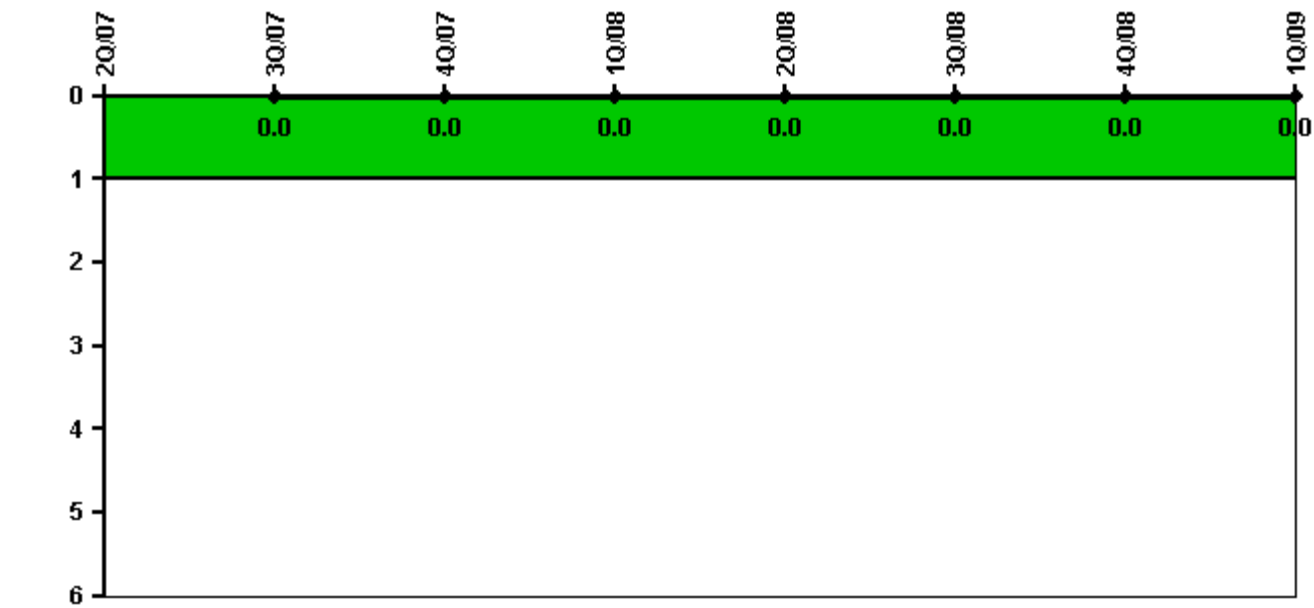
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned power changes	0	0	0	1.0	1.0	0	0	0
Critical hours	2184.0	2208.0	1236.0	2183.0	2081.1	2208.0	2118.0	2159.0
Indicator value	1.6	1.6	0	0.9	1.8	1.8	1.6	0.8

Licensee Comments: none

Unplanned Scrams with Complications



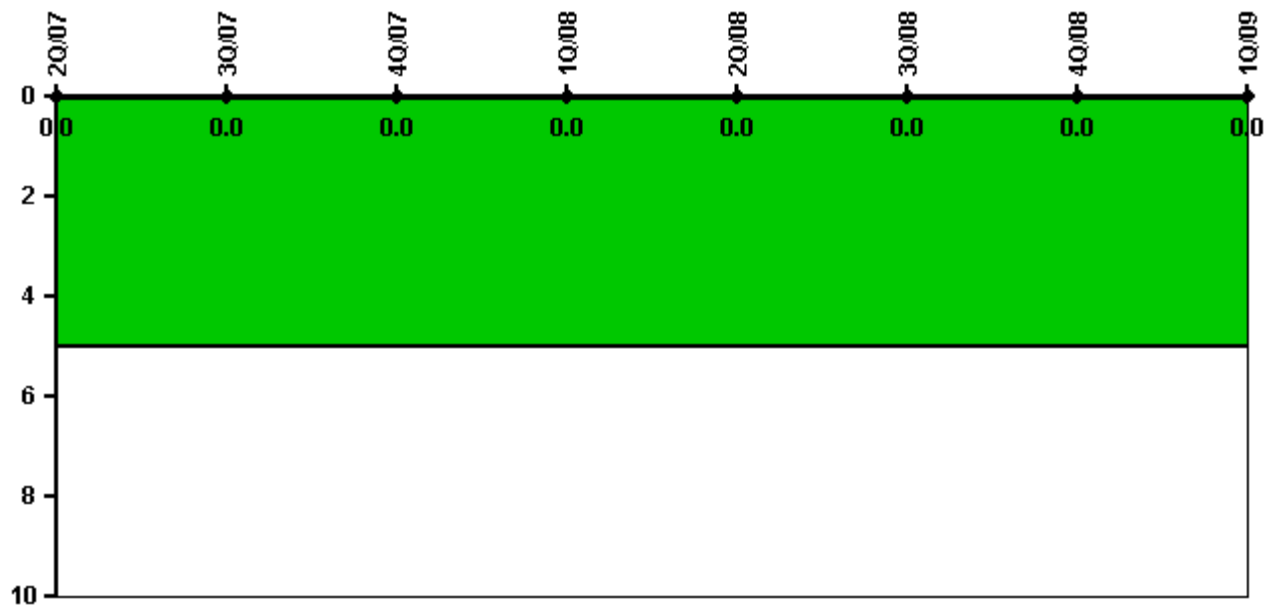
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



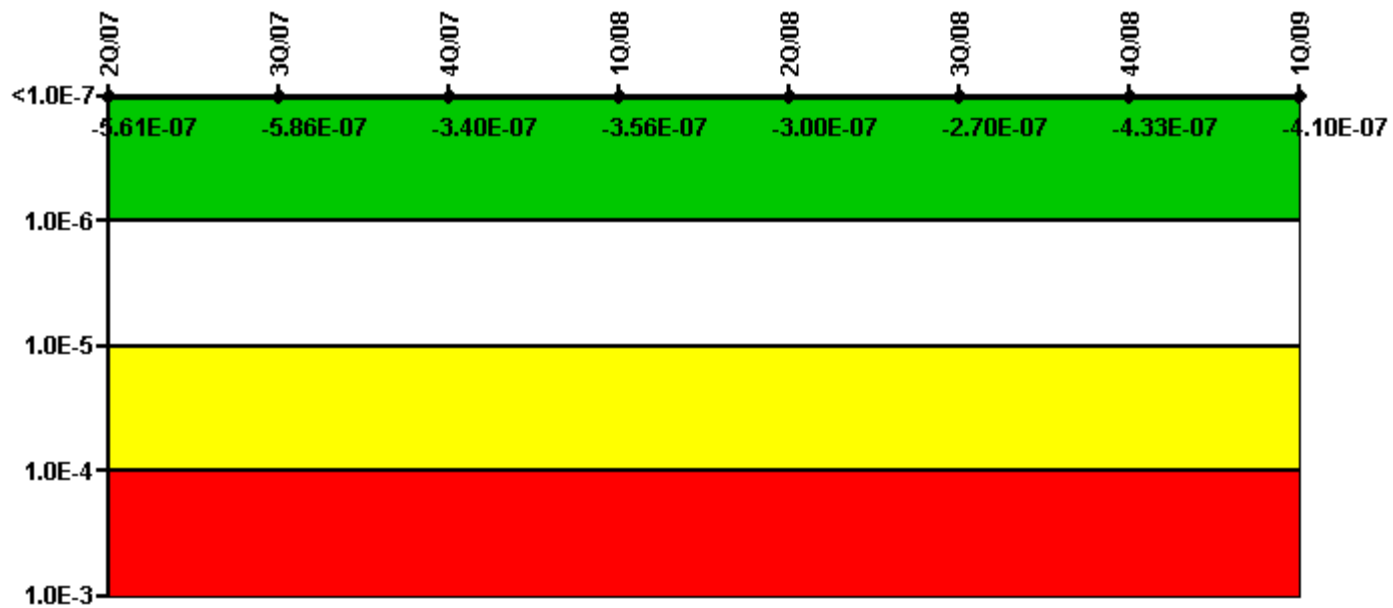
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



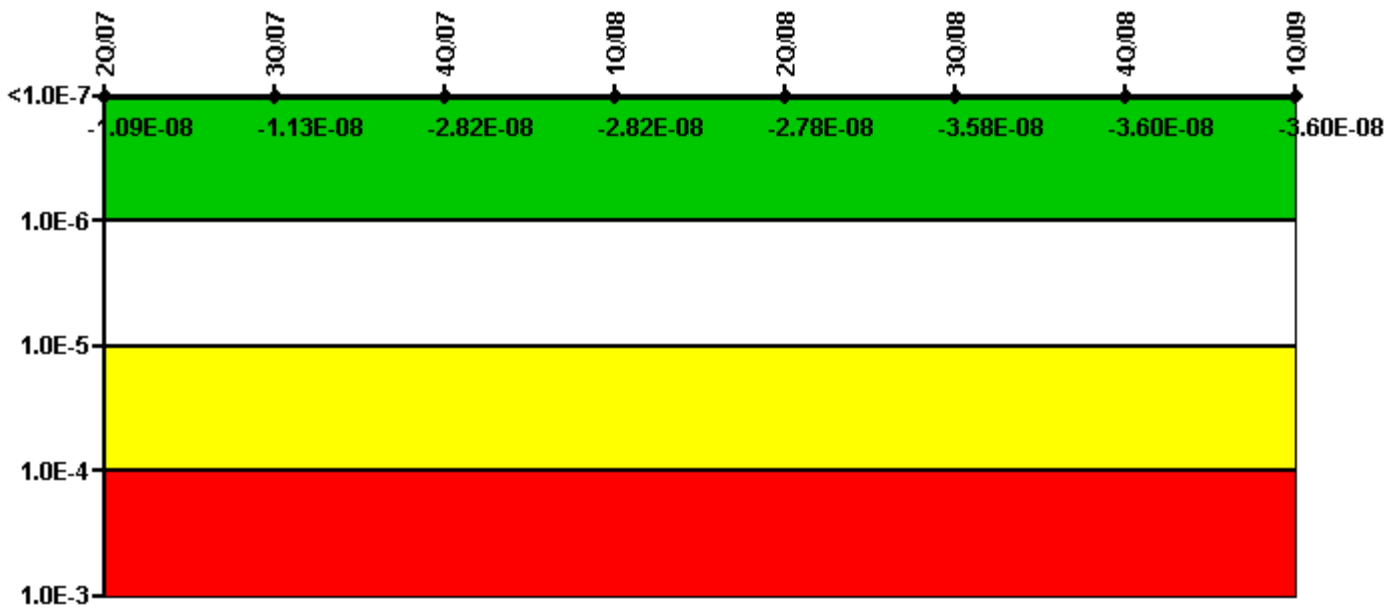
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	5.90E-08	1.40E-08	1.00E-07	8.40E-08	1.50E-07	1.80E-07	1.70E-08	4.00E-08
URI (ΔCDF)	-6.20E-07	-6.00E-07	-4.40E-07	-4.40E-07	-4.50E-07	-4.50E-07	-4.50E-07	-4.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.61E-07	-5.86E-07	-3.40E-07	-3.56E-07	-3.00E-07	-2.70E-07	-4.33E-07	-4.10E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



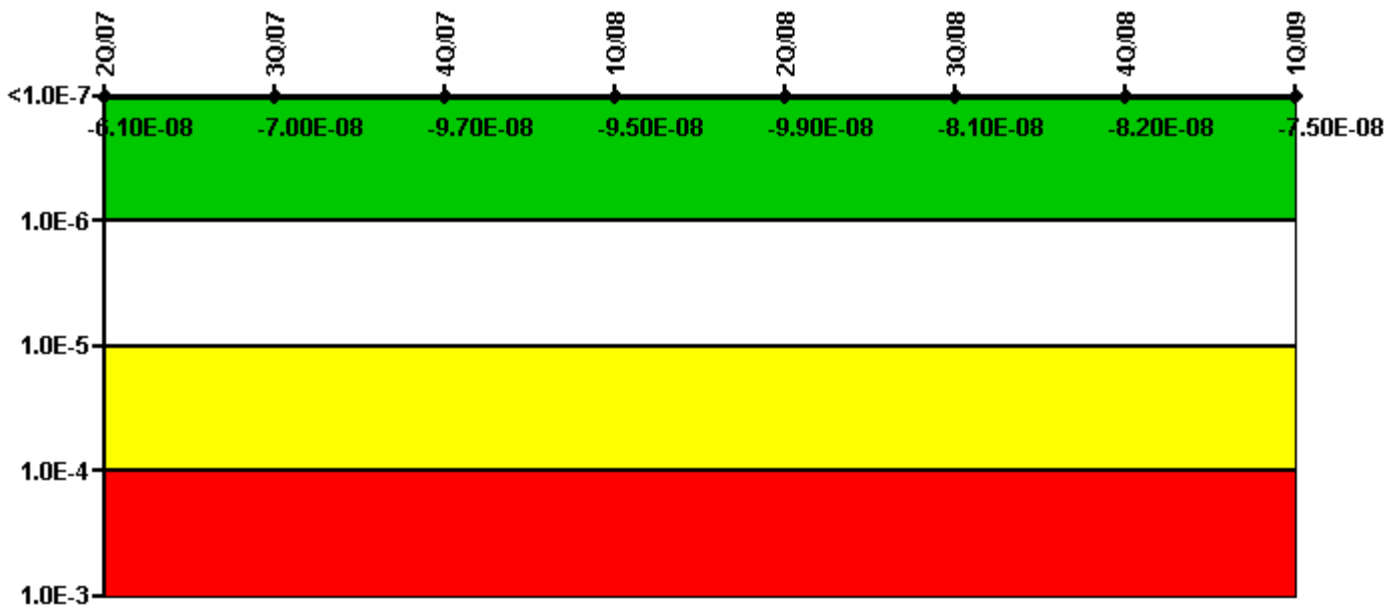
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	-9.20E-10	-1.30E-09	-2.20E-09	-2.20E-09	-1.80E-09	-1.80E-09	-2.00E-09	-2.00E-09
URI (ΔCDF)	-1.00E-08	-1.00E-08	-2.60E-08	-2.60E-08	-2.60E-08	-3.40E-08	-3.40E-08	-3.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.09E-08	-1.13E-08	-2.82E-08	-2.82E-08	-2.78E-08	-3.58E-08	-3.60E-08	-3.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



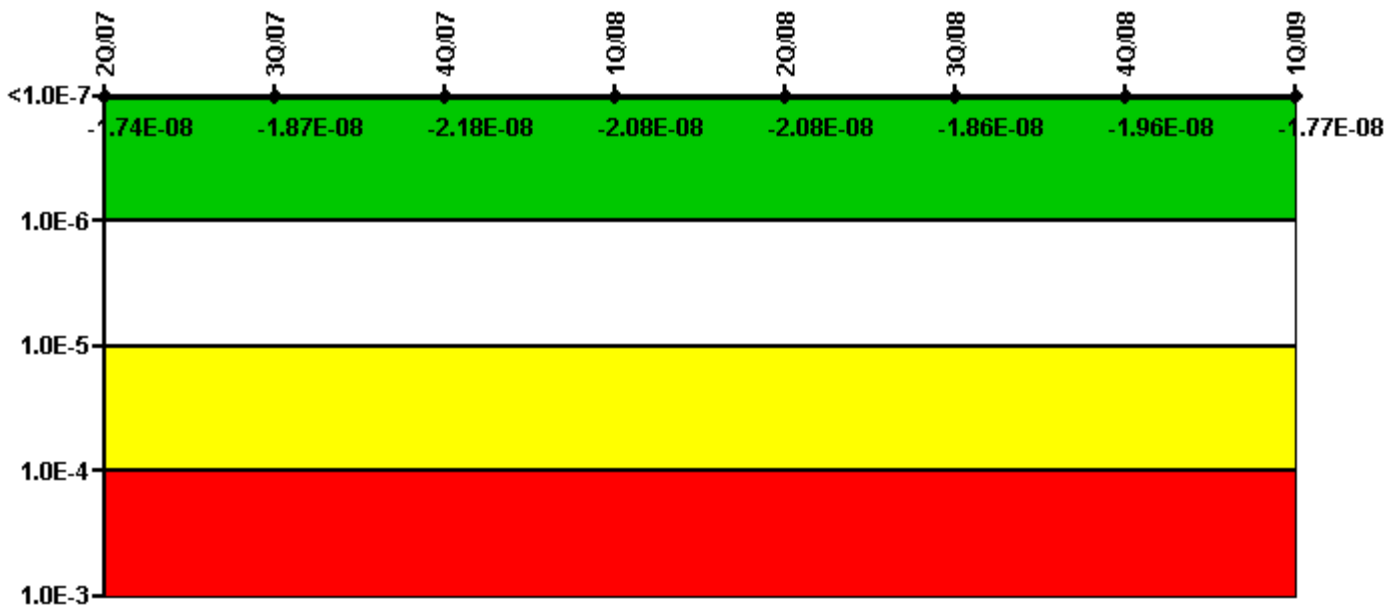
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	3.90E-08	4.00E-08	2.30E-08	2.50E-08	2.10E-08	3.90E-08	3.80E-08	4.50E-08
URI (ΔCDF)	-1.00E-07	-1.10E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.10E-08	-7.00E-08	-9.70E-08	-9.50E-08	-9.90E-08	-8.10E-08	-8.20E-08	-7.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



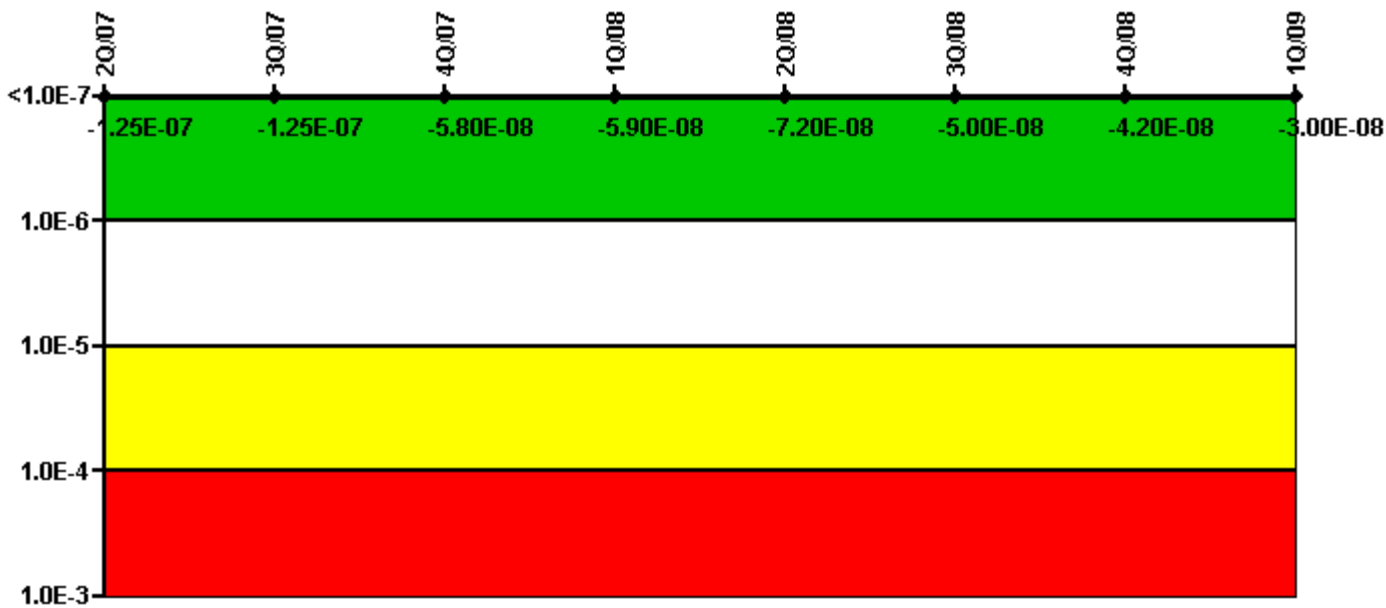
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	-3.40E-09	-4.70E-09	-4.80E-09	-4.80E-09	-4.80E-09	-2.60E-09	-4.60E-09	-2.70E-09
URI (ΔCDF)	-1.40E-08	-1.40E-08	-1.70E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.50E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.74E-08	-1.87E-08	-2.18E-08	-2.08E-08	-2.08E-08	-1.86E-08	-1.96E-08	-1.77E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



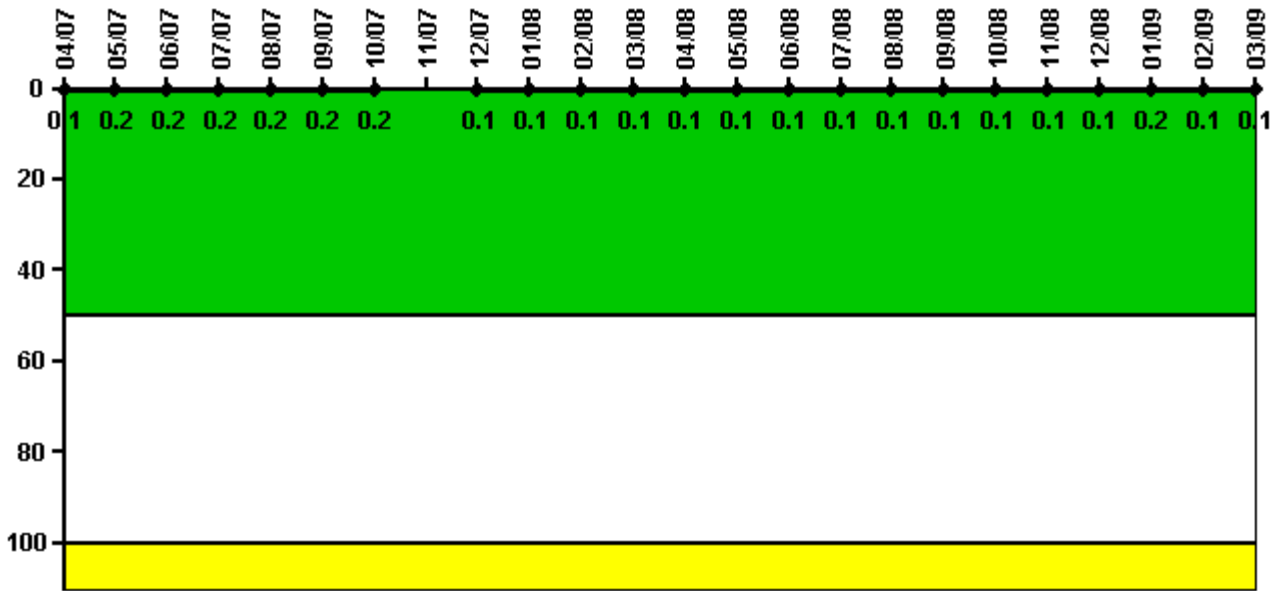
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	4.80E-09	5.00E-09	9.20E-08	9.10E-08	7.80E-08	1.00E-07	9.80E-08	1.20E-07
URI (ΔCDF)	-1.30E-07	-1.30E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.40E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.25E-07	-1.25E-07	-5.80E-08	-5.90E-08	-7.20E-08	-5.00E-08	-4.20E-08	-3.00E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

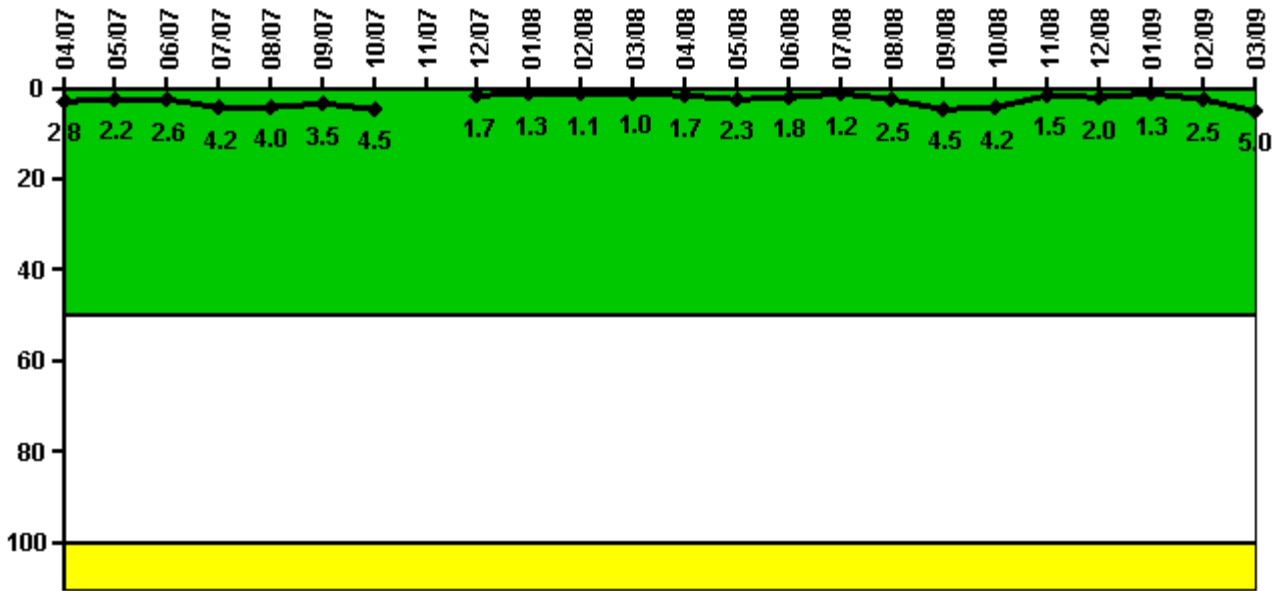
Notes

Reactor Coolant System Activity	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum activity	0.001430	0.001560	0.001520	0.001620	0.002360	0.001630	0.001750	N/A	0.001060	0.001250	0.001120	0.000964
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.2	0.2	0.2	0.2	0.2	0.2	N/A	0.1	0.1	0.1	0.1

Reactor Coolant System Activity	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum activity	0.000905	0.001270	0.001210	0.001070	0.001030	0.001100	0.001140	0.001310	0.001410	0.001580	0.001420	0.001480
Technical specification limit	1.0	1.0	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	0.2	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



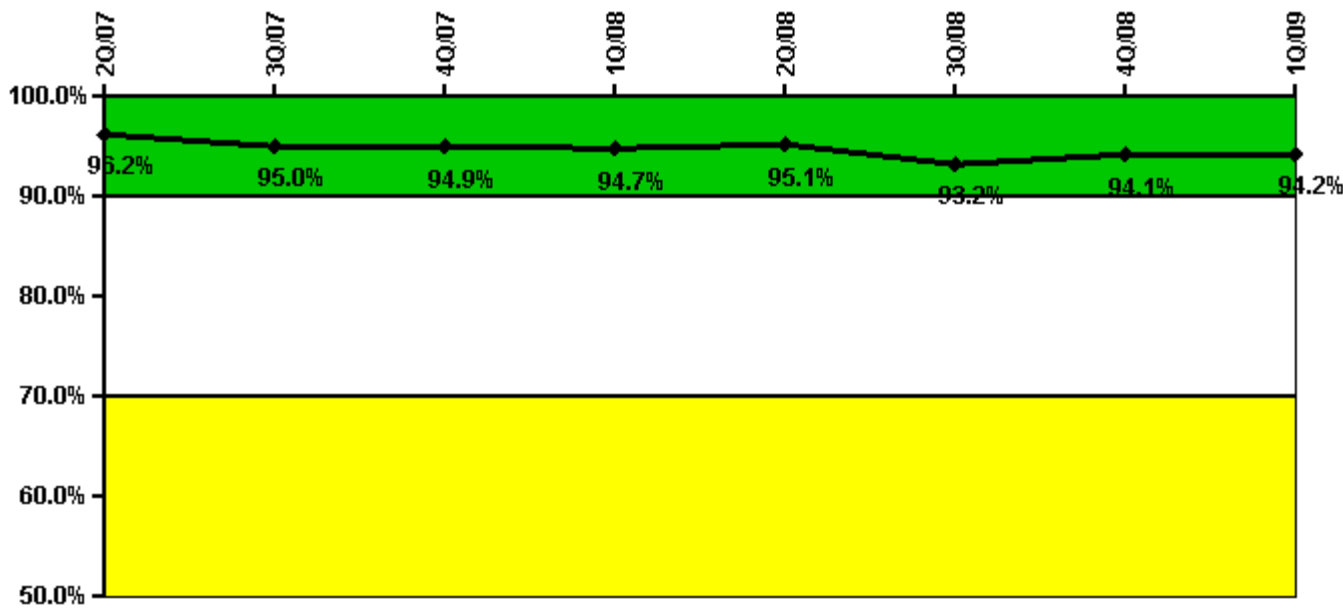
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum leakage	0.280	0.220	0.260	0.420	0.400	0.350	0.450	N/A	0.170	0.130	0.110	0.100
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.8	2.2	2.6	4.2	4.0	3.5	4.5	N/A	1.7	1.3	1.1	1.0
Reactor Coolant System Leakage	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum leakage	0.170	0.230	0.180	0.120	0.250	0.450	0.420	0.150	0.200	0.130	0.250	0.500
Technical specification limit	10.0	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	2.3	1.8	1.2	2.5	4.5	4.2	1.5	2.0	1.3	2.5	5.0

Licensee Comments: none

Drill/Exercise Performance



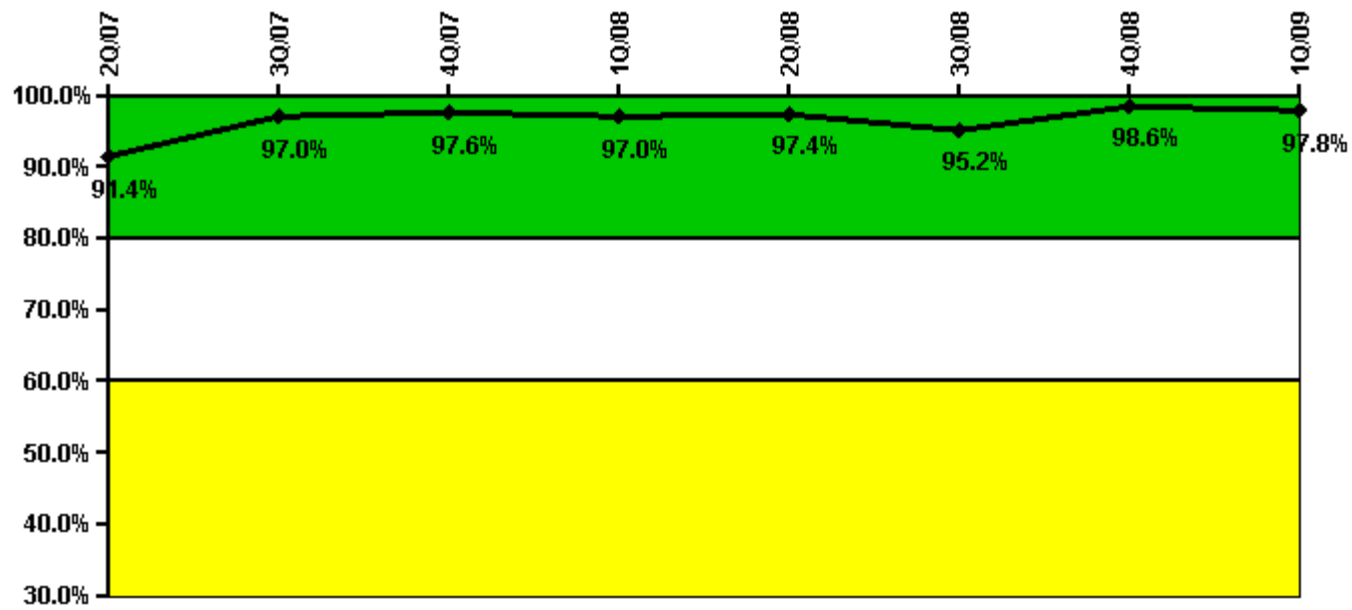
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful opportunities	25.0	18.0	24.0	43.0	41.0	37.0	20.0	36.0
Total opportunities	26.0	20.0	24.0	45.0	42.0	43.0	21.0	38.0
Indicator value	96.2%	95.0%	94.9%	94.7%	95.1%	93.2%	94.1%	94.2%

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

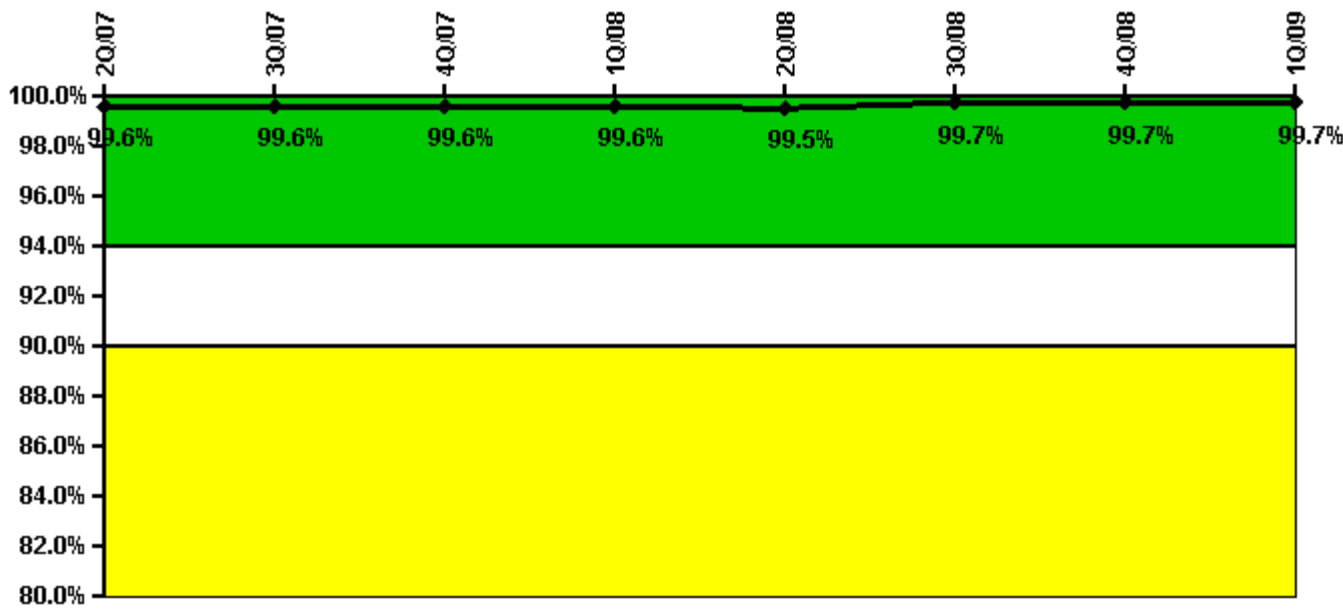
Notes

ERO Drill Participation	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Participating Key personnel	159.0	164.0	160.0	128.0	149.0	138.0	144.0	133.0
Total Key personnel	174.0	169.0	164.0	132.0	153.0	145.0	146.0	136.0
Indicator value	91.4%	97.0%	97.6%	97.0%	97.4%	95.2%	98.6%	97.8%

Licensee Comments:

1Q/09: A self assessment recognized an incorrect count of ERO personnel for October, November and December 2008. Historical data was corrected with no change in color.

Alert & Notification System



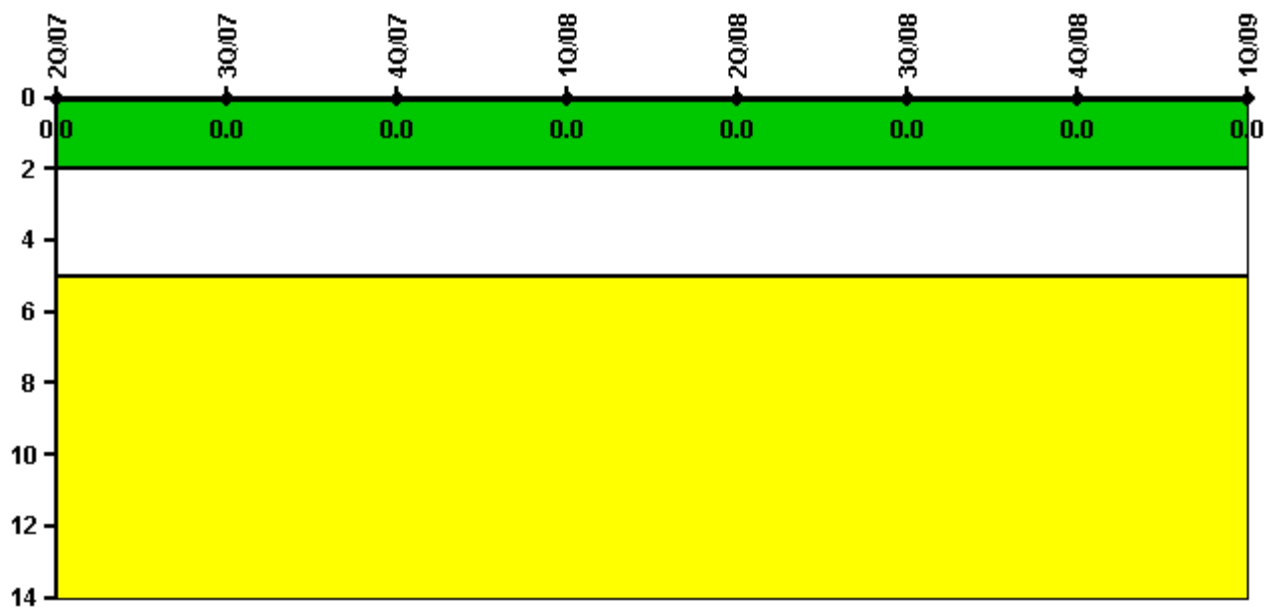
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful siren-tests	474	539	476	543	472	475	544	476
Total sirens-tests	476	544	476	544	476	476	544	476
Indicator value	99.6%	99.6%	99.6%	99.6%	99.5%	99.7%	99.7%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



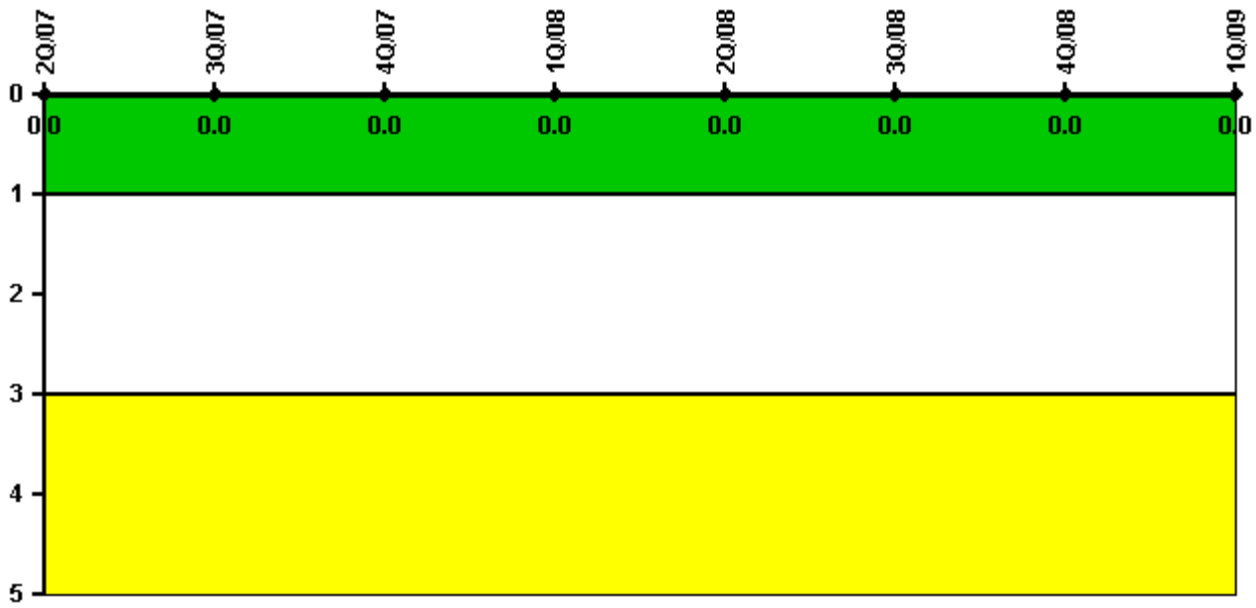
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

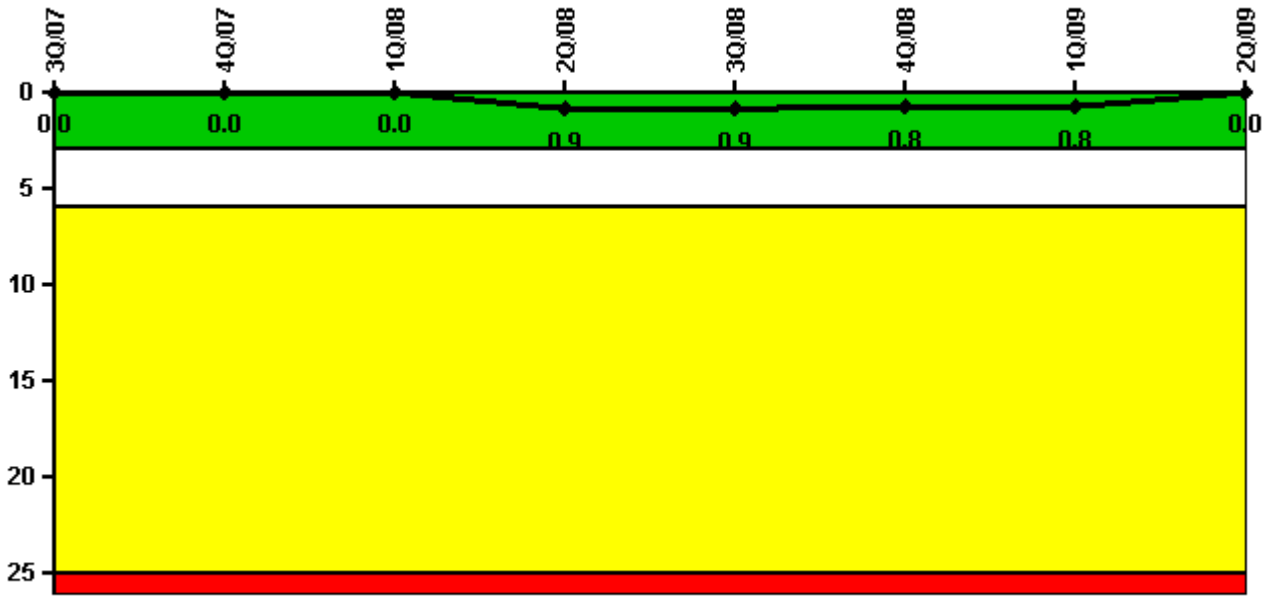
[Security](#) information not publicly available.

Surry 1

2Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



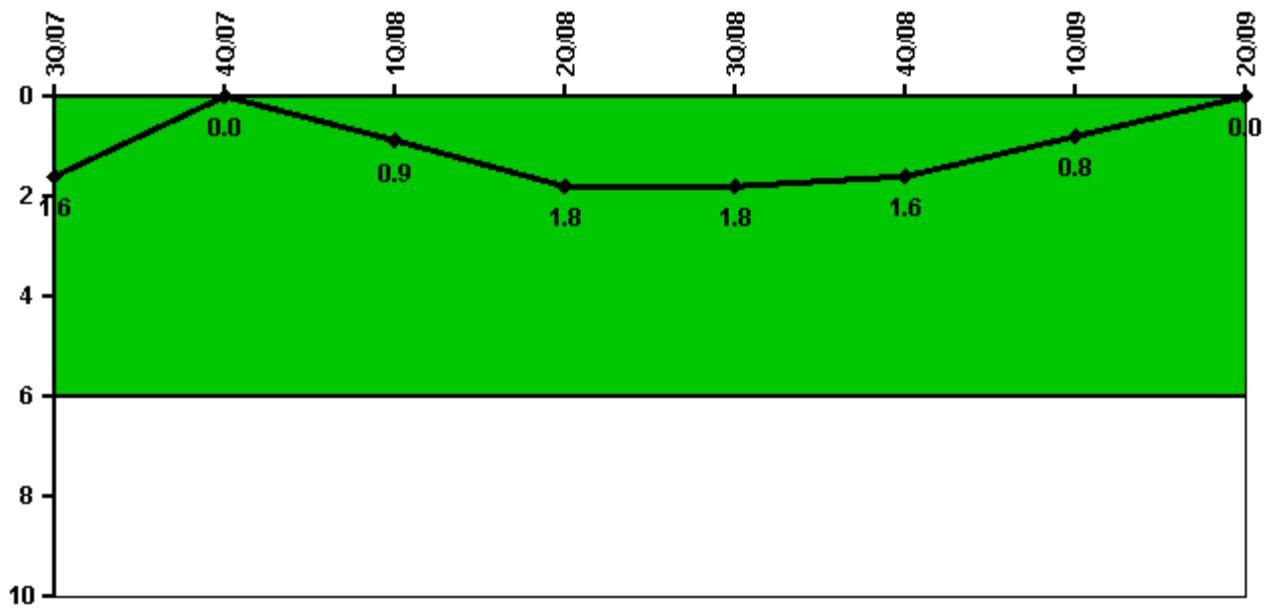
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2208.0	1236.0	2183.0	2081.1	2208.0	2118.0	2159.0	1655.9
Indicator value	0	0	0	0.9	0.9	0.8	0.8	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



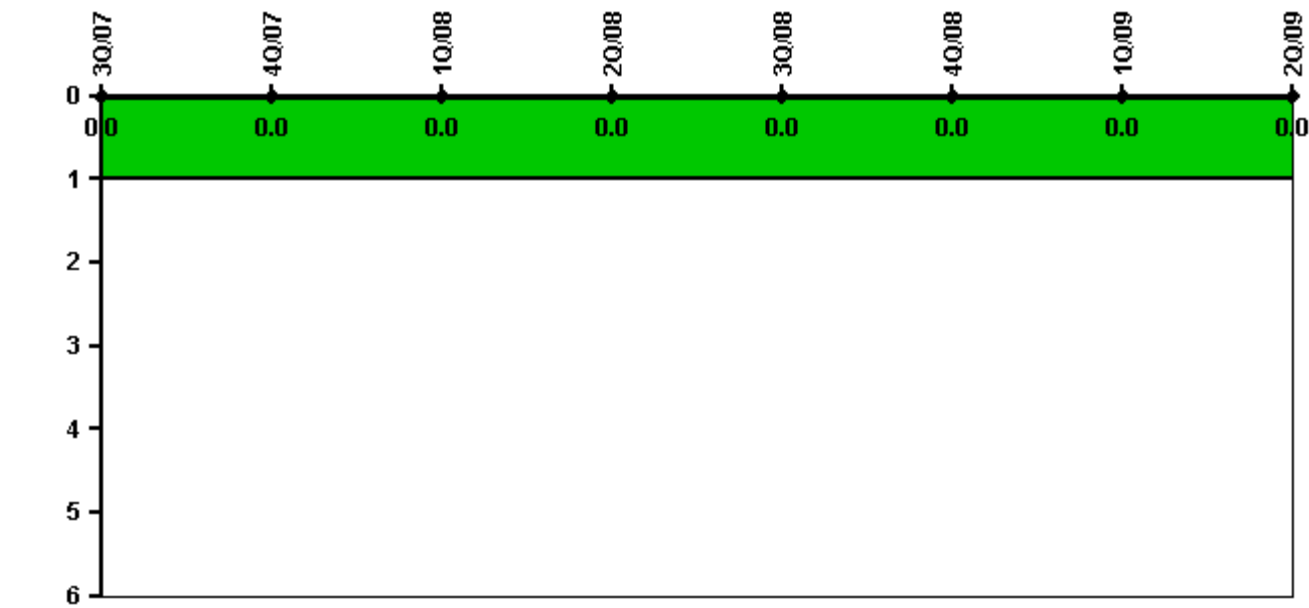
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned power changes	0	0	1.0	1.0	0	0	0	0
Critical hours	2208.0	1236.0	2183.0	2081.1	2208.0	2118.0	2159.0	1655.9
Indicator value	1.6	0	0.9	1.8	1.8	1.6	0.8	0

Licensee Comments: none

Unplanned Scrams with Complications



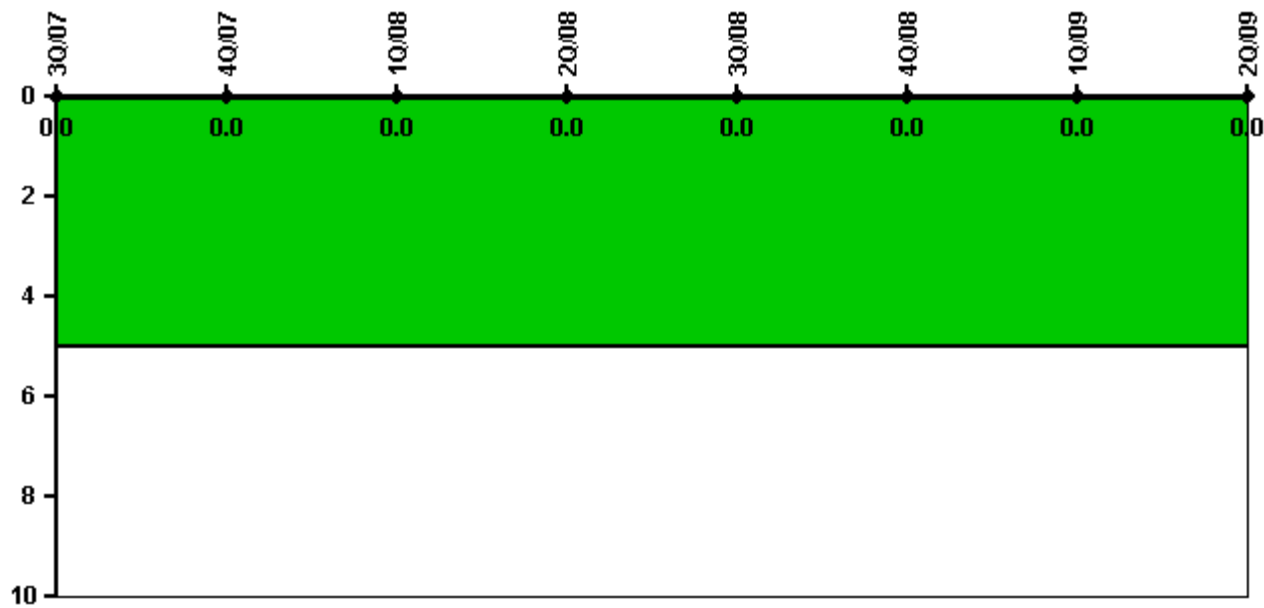
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

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

Licensee Comments: none

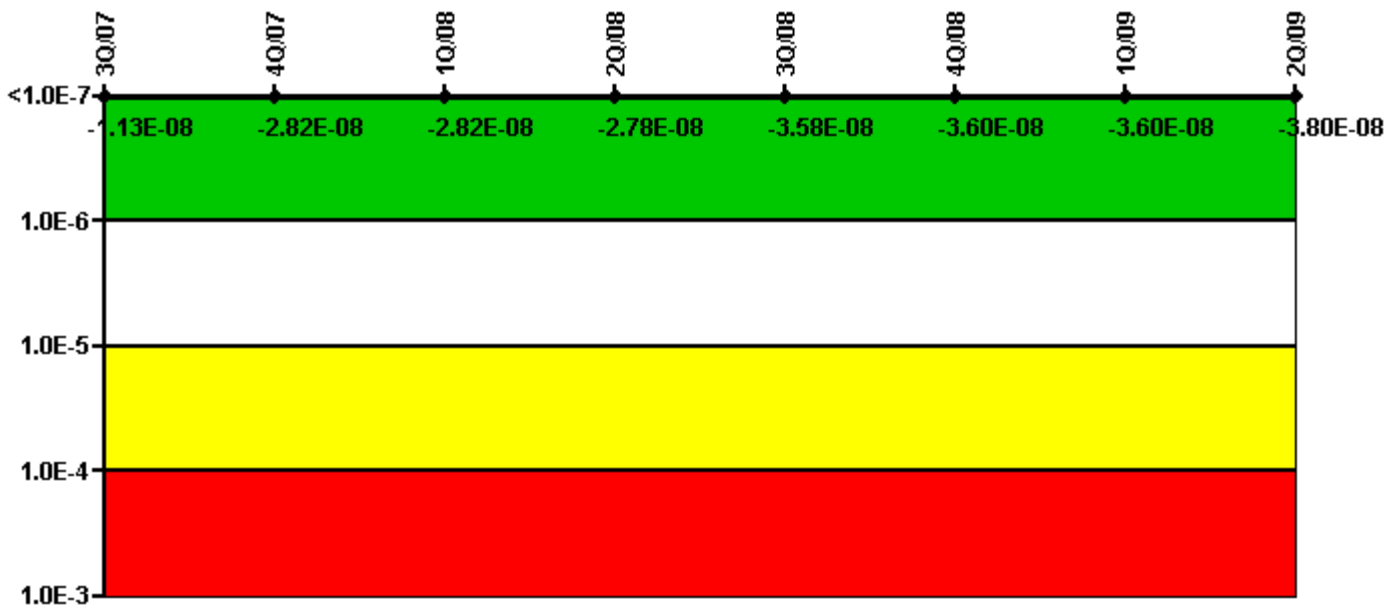
Time	Error Norm $\ u - u_h\ _2$
3Q/07	$-5.86E-07$
4Q/07	$-3.40E-07$
1Q/08	$-3.56E-07$
2Q/08	$-3.00E-07$
3Q/08	$-2.70E-07$
4Q/08	$-4.33E-07$
1Q/09	$-4.10E-07$
2Q/09	$-7.41E-07$

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)	1.40E-08	1.00E-07	8.40E-08	1.50E-07	1.80E-07	1.70E-08	4.00E-08	4.90E-08
URI (ΔCDF)	-6.00E-07	-4.40E-07	-4.40E-07	-4.50E-07	-4.50E-07	-4.50E-07	-4.50E-07	-7.90E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.86E-07	-3.40E-07	-3.56E-07	-3.00E-07	-2.70E-07	-4.33E-07	-4.10E-07	-7.41E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



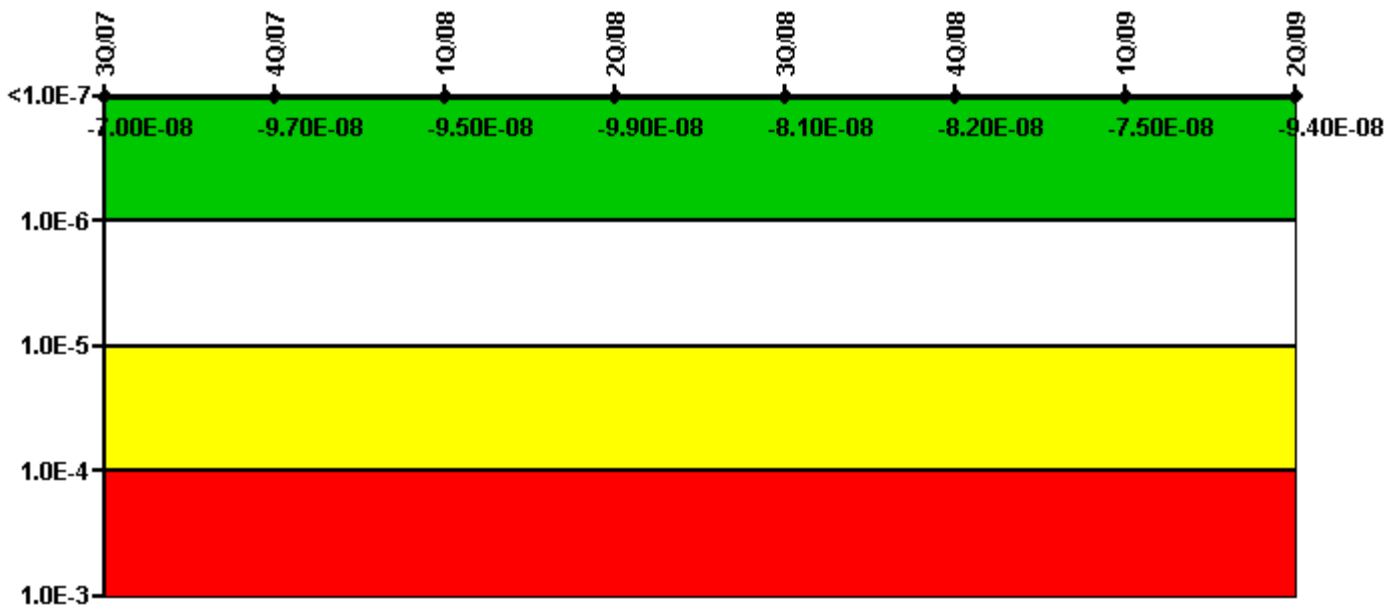
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (Δ CDF)	-1.30E-09	-2.20E-09	-2.20E-09	-1.80E-09	-1.80E-09	-2.00E-09	-2.00E-09	-2.00E-09
URI (Δ CDF)	-1.00E-08	-2.60E-08	-2.60E-08	-2.60E-08	-3.40E-08	-3.40E-08	-3.40E-08	-3.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.13E-08	-2.82E-08	-2.82E-08	-2.78E-08	-3.58E-08	-3.60E-08	-3.60E-08	-3.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



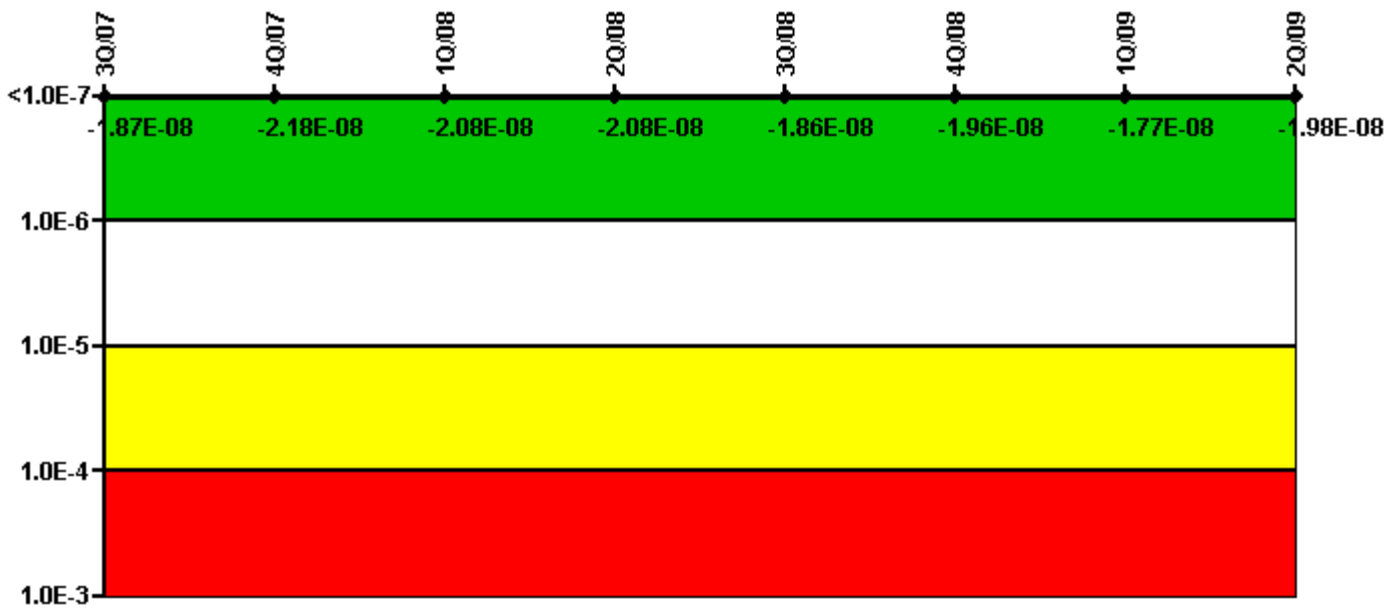
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	4.00E-08	2.30E-08	2.50E-08	2.10E-08	3.90E-08	3.80E-08	4.50E-08	2.60E-08
URI (ΔCDF)	-1.10E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.00E-08	-9.70E-08	-9.50E-08	-9.90E-08	-8.10E-08	-8.20E-08	-7.50E-08	-9.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



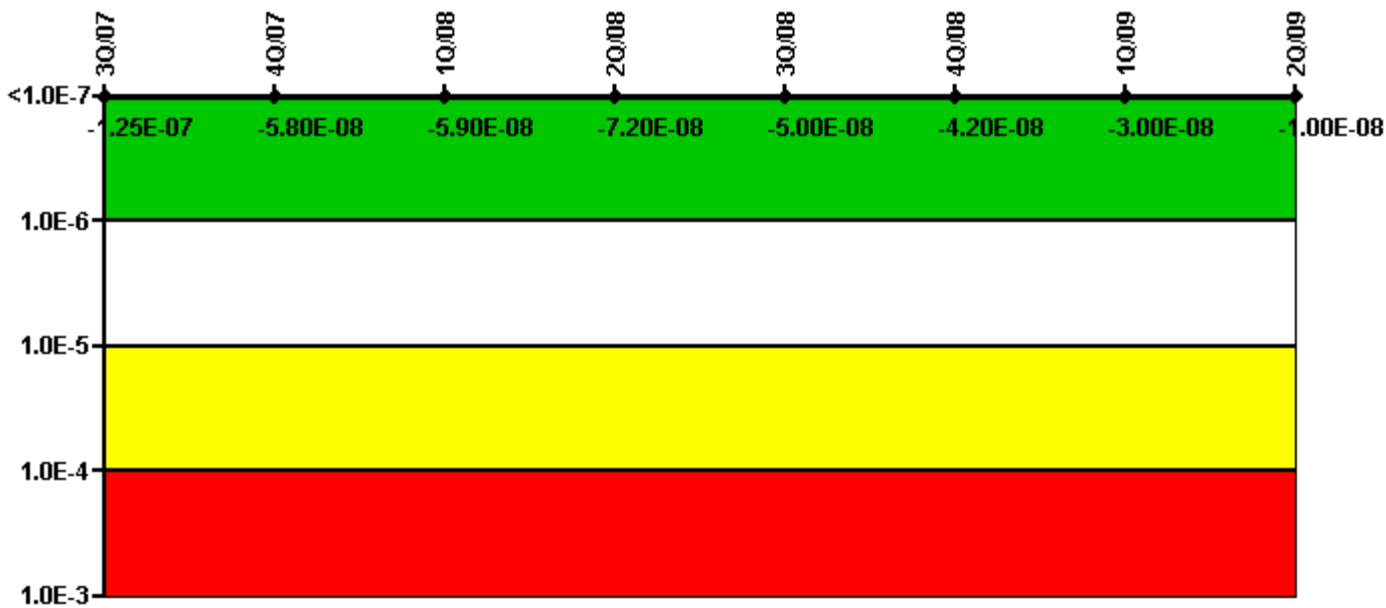
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	-4.70E-09	-4.80E-09	-4.80E-09	-4.80E-09	-2.60E-09	-4.60E-09	-2.70E-09	-2.80E-09
URI (ΔCDF)	-1.40E-08	-1.70E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.50E-08	-1.50E-08	-1.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.87E-08	-2.18E-08	-2.08E-08	-2.08E-08	-1.86E-08	-1.96E-08	-1.77E-08	-1.98E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



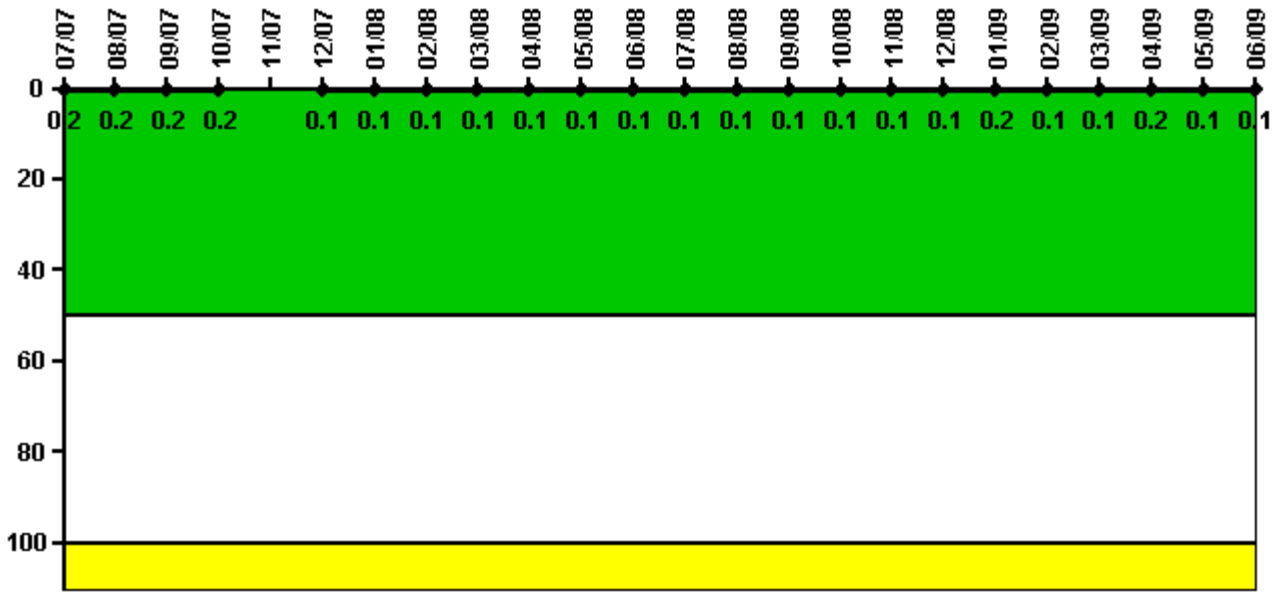
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	5.00E-09	9.20E-08	9.10E-08	7.80E-08	1.00E-07	9.80E-08	1.20E-07	1.40E-07
URI (ΔCDF)	-1.30E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.40E-07	-1.50E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.25E-07	-5.80E-08	-5.90E-08	-7.20E-08	-5.00E-08	-4.20E-08	-3.00E-08	-1.00E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

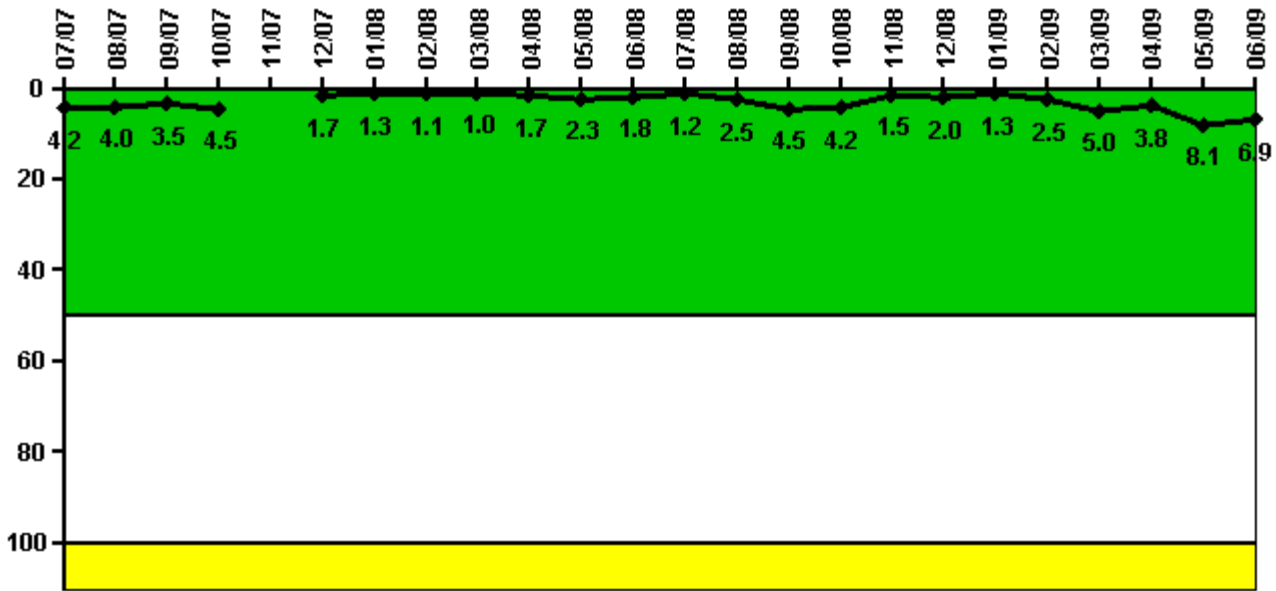
Notes

Reactor Coolant System Activity	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum activity	0.001620	0.002360	0.001630	0.001750	N/A	0.001060	0.001250	0.001120	0.000964	0.000905	0.001270	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	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Reactor Coolant System Activity	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum activity	0.001070	0.001030	0.001100	0.001140	0.001310	0.001410	0.001580	0.001420	0.001480	0.001630	0.000819	0.000665
Technical specification limit	1.0	1.0	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	0.2	0.1	0.1	0.2	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



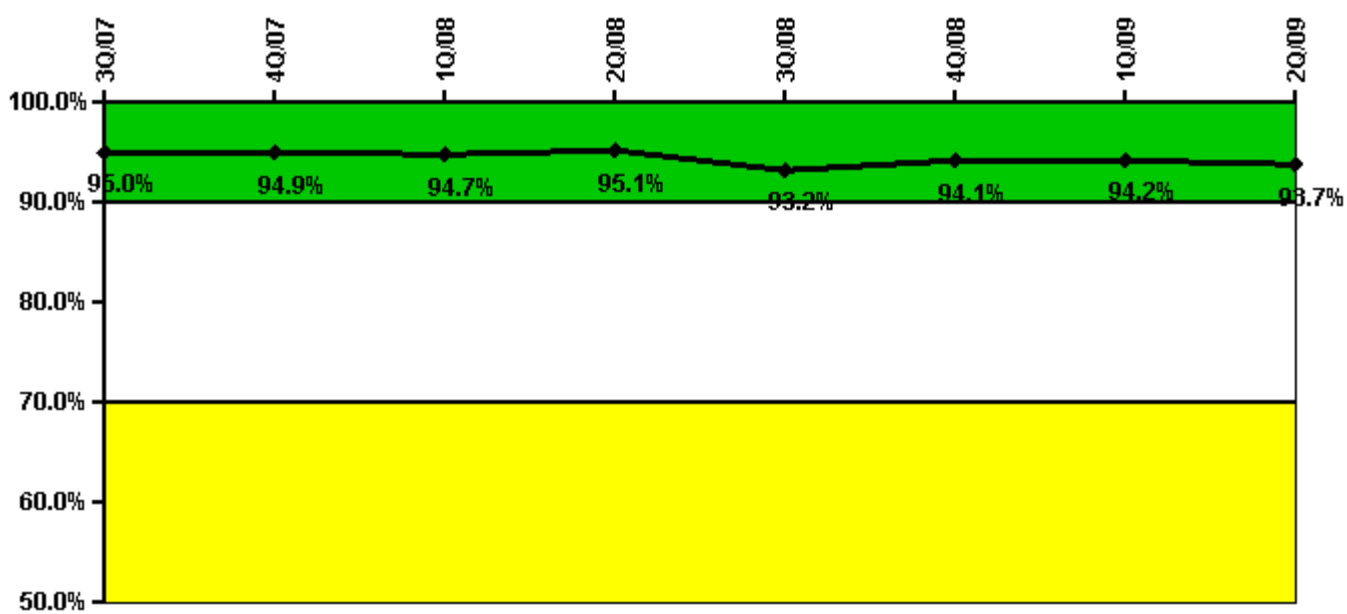
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.420	0.400	0.350	0.450	N/A	0.170	0.130	0.110	0.100	0.170	0.230	0.180
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	4.2	4.0	3.5	4.5	N/A	1.7	1.3	1.1	1.0	1.7	2.3	1.8
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	0.120	0.250	0.450	0.420	0.150	0.200	0.130	0.250	0.500	0.380	0.810	0.690
Technical specification limit	10.0	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	2.5	4.5	4.2	1.5	2.0	1.3	2.5	5.0	3.8	8.1	6.9

Licensee Comments: none

Drill/Exercise Performance



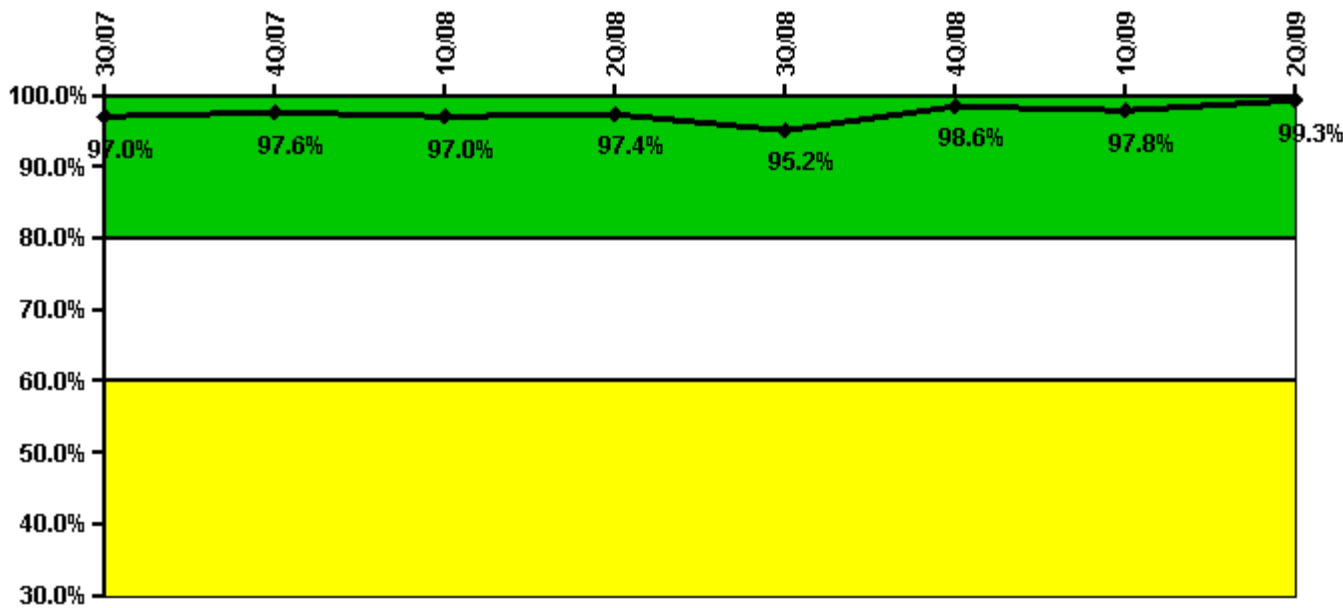
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful opportunities	18.0	24.0	43.0	41.0	37.0	20.0	36.0	35.0
Total opportunities	20.0	24.0	45.0	42.0	43.0	21.0	38.0	38.0
Indicator value	95.0%	94.9%	94.7%	95.1%	93.2%	94.1%	94.2%	93.7%

Licensee Comments: none

ERO Drill Participation



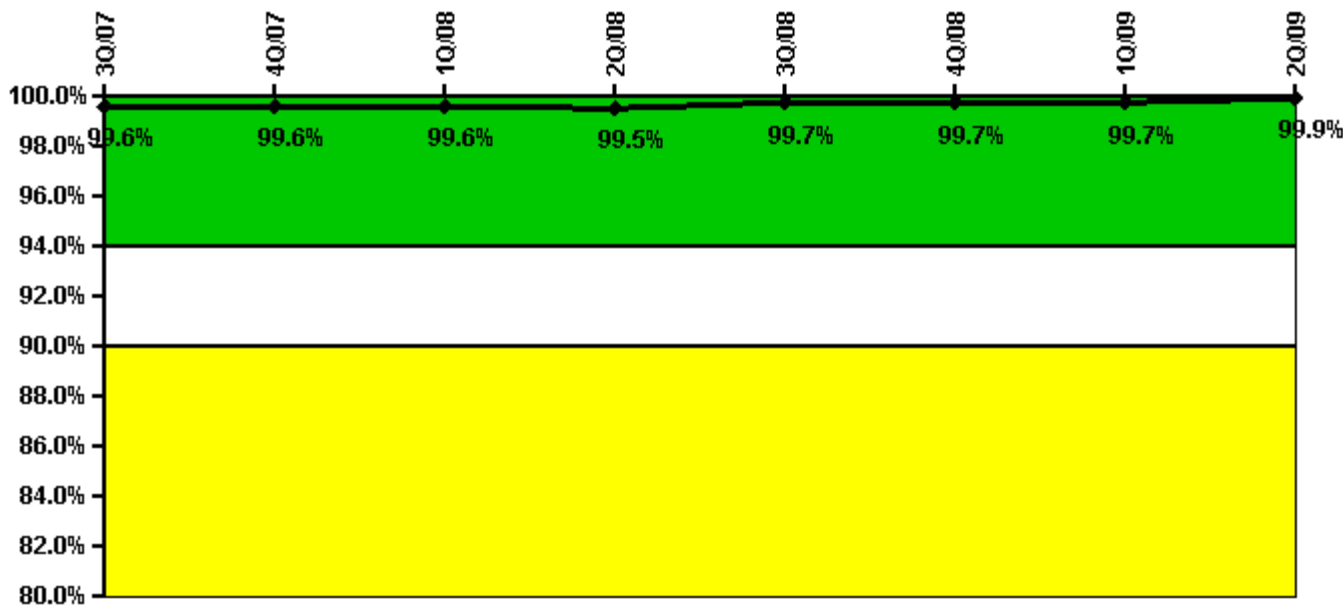
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Participating Key personnel	164.0	160.0	128.0	149.0	138.0	144.0	133.0	136.0
Total Key personnel	169.0	164.0	132.0	153.0	145.0	146.0	136.0	137.0
Indicator value	97.0%	97.6%	97.0%	97.4%	95.2%	98.6%	97.8%	99.3%

Licensee Comments: none

Alert & Notification System



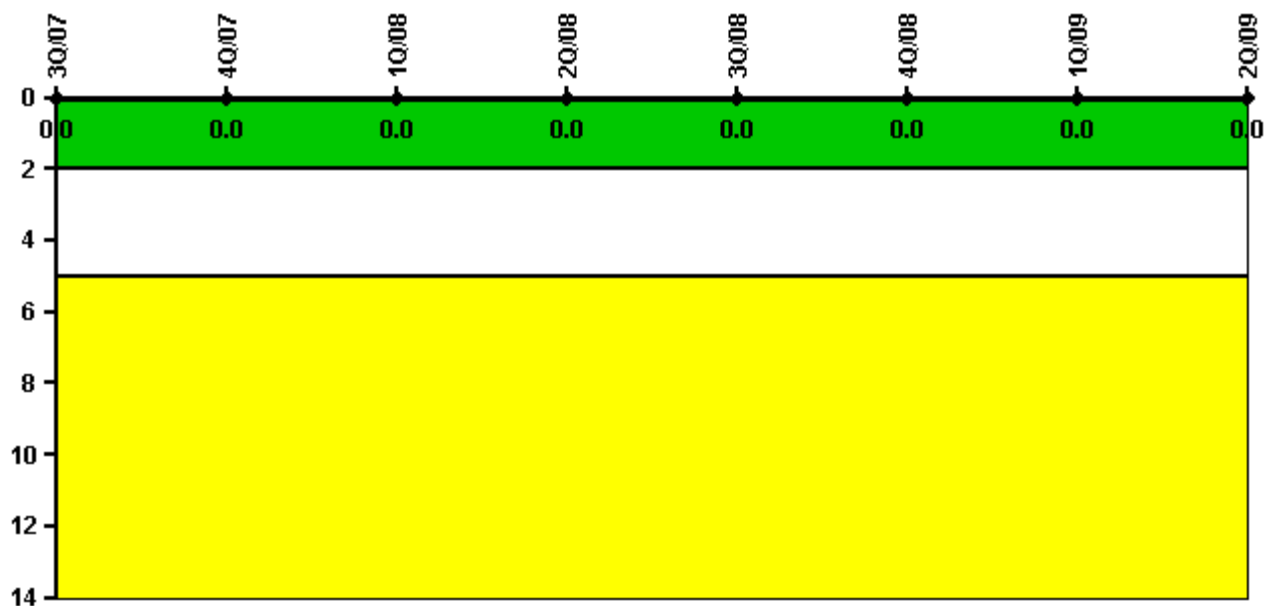
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful siren-tests	539	476	543	472	475	544	476	475
Total sirens-tests	544	476	544	476	476	544	476	476
Indicator value	99.6%	99.6%	99.6%	99.5%	99.7%	99.7%	99.7%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



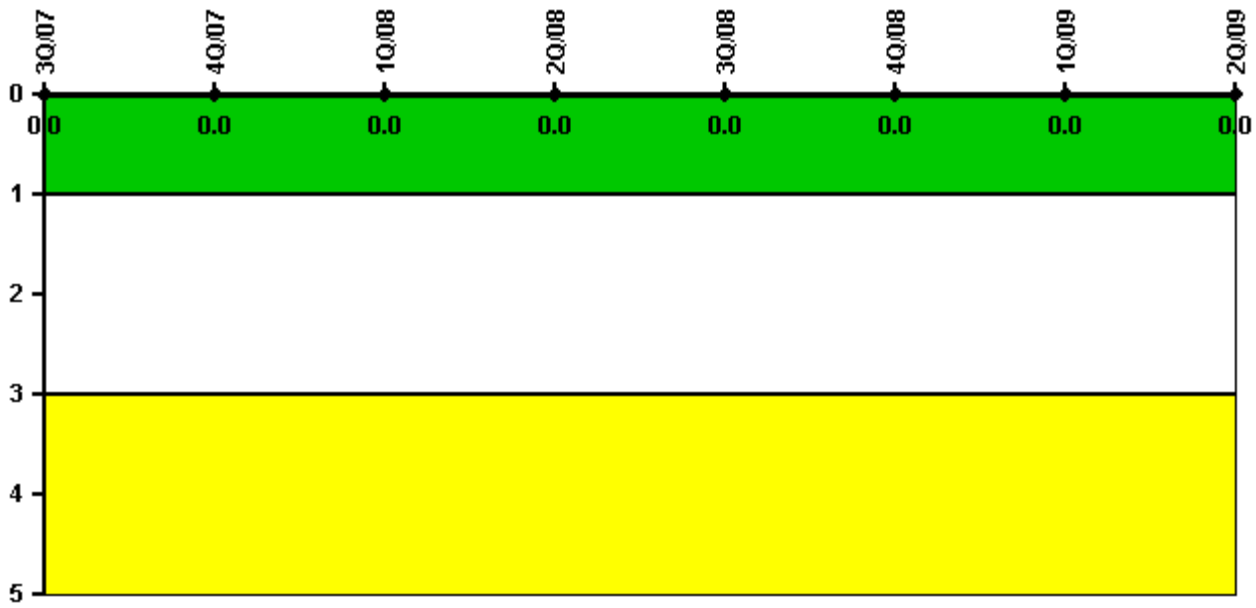
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

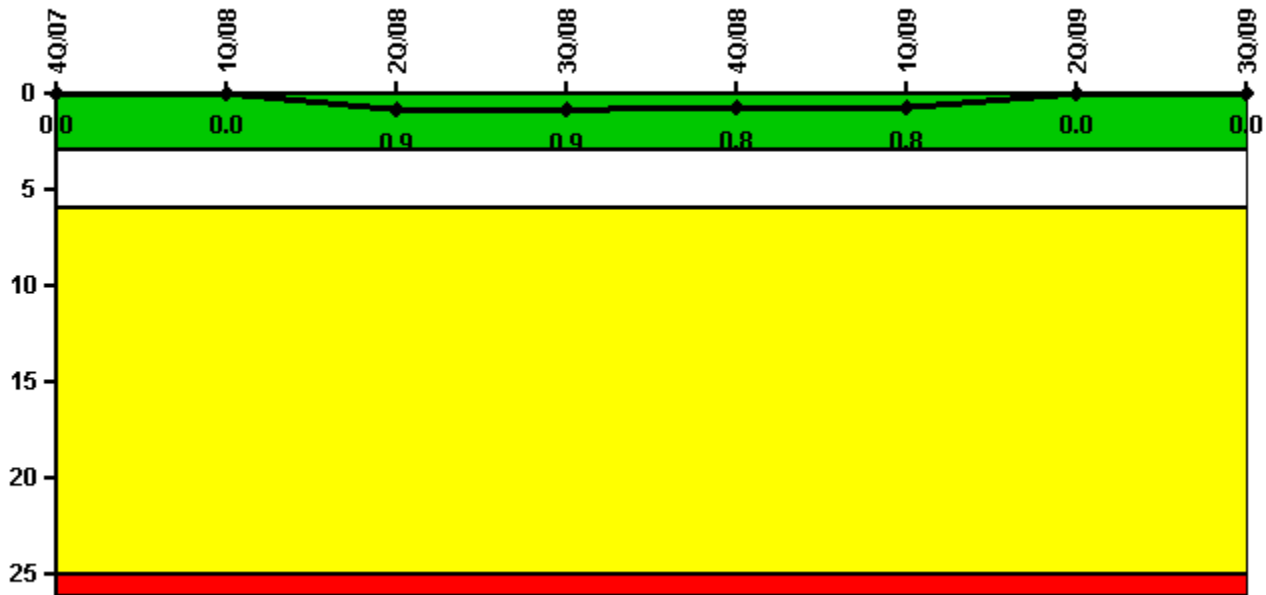
[Security](#) information not publicly available.

Surry 1

3Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



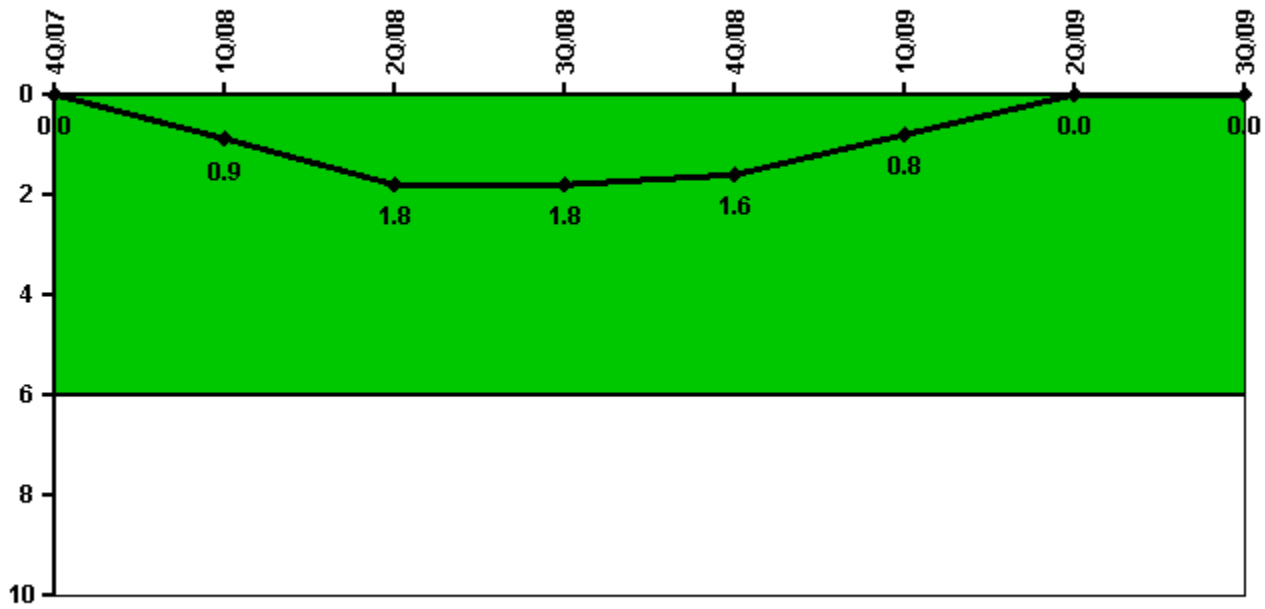
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	1236.0	2183.0	2081.1	2208.0	2118.0	2159.0	1655.9	2208.0
Indicator value	0	0	0.9	0.9	0.8	0.8	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



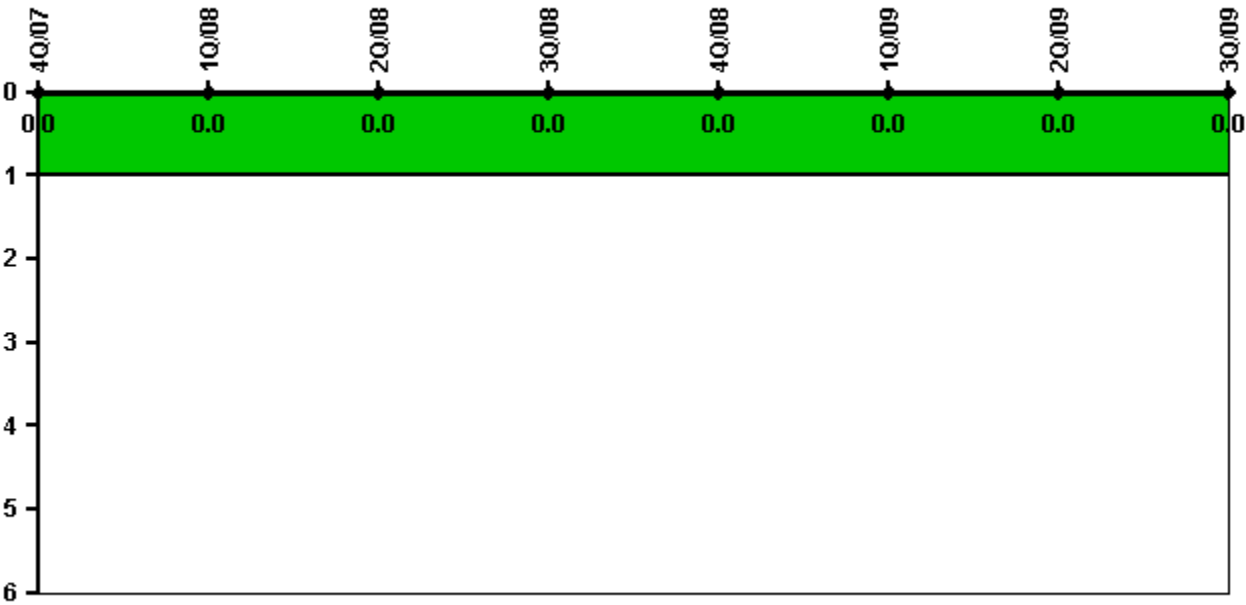
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned power changes	0	1.0	1.0	0	0	0	0	0
Critical hours	1236.0	2183.0	2081.1	2208.0	2118.0	2159.0	1655.9	2208.0
Indicator value	0	0.9	1.8	1.8	1.6	0.8	0	0

Licensee Comments: none

Unplanned Scrams with Complications



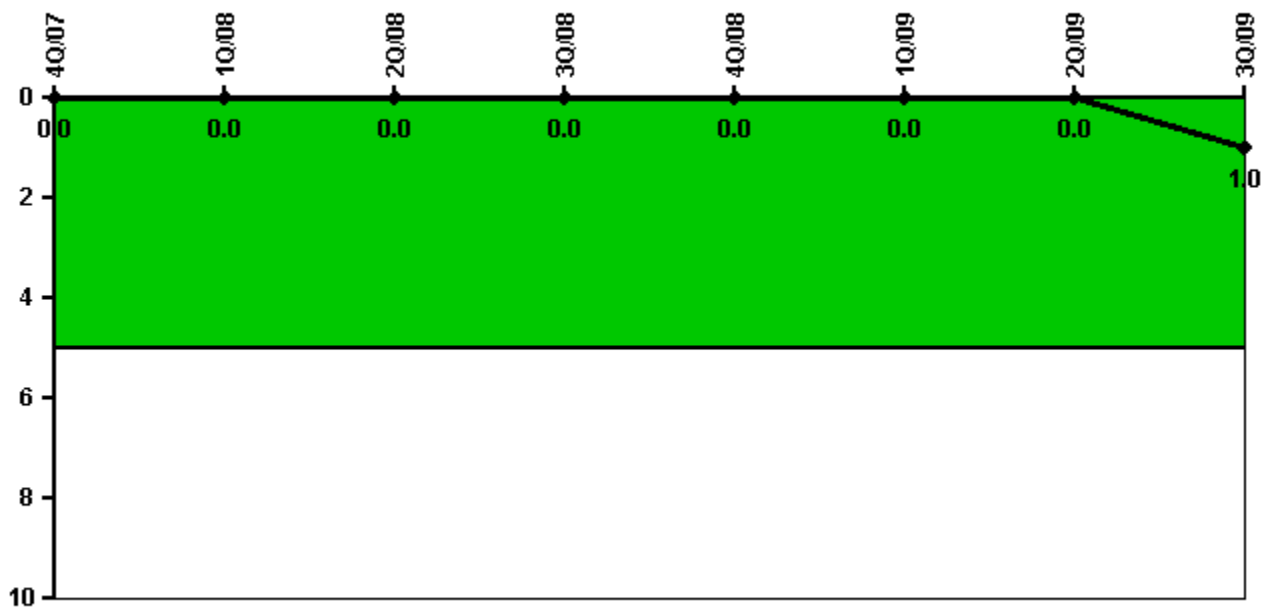
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



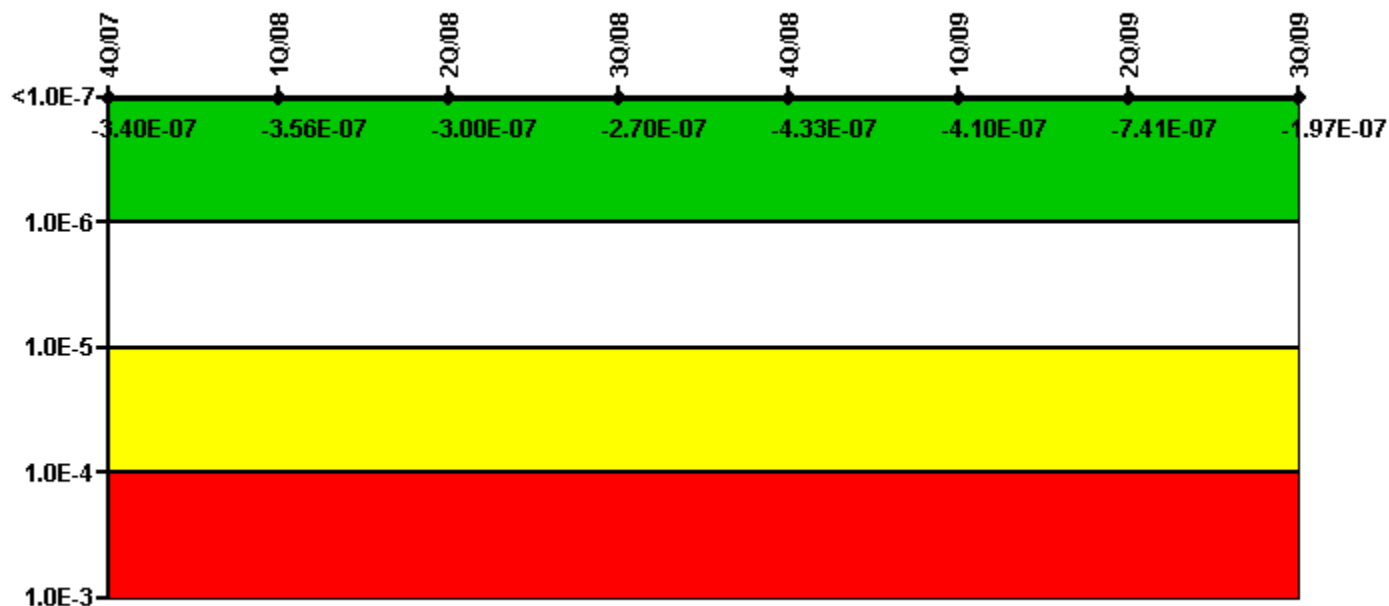
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Safety System Functional Failures	0	0	0	0	0	0	0	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

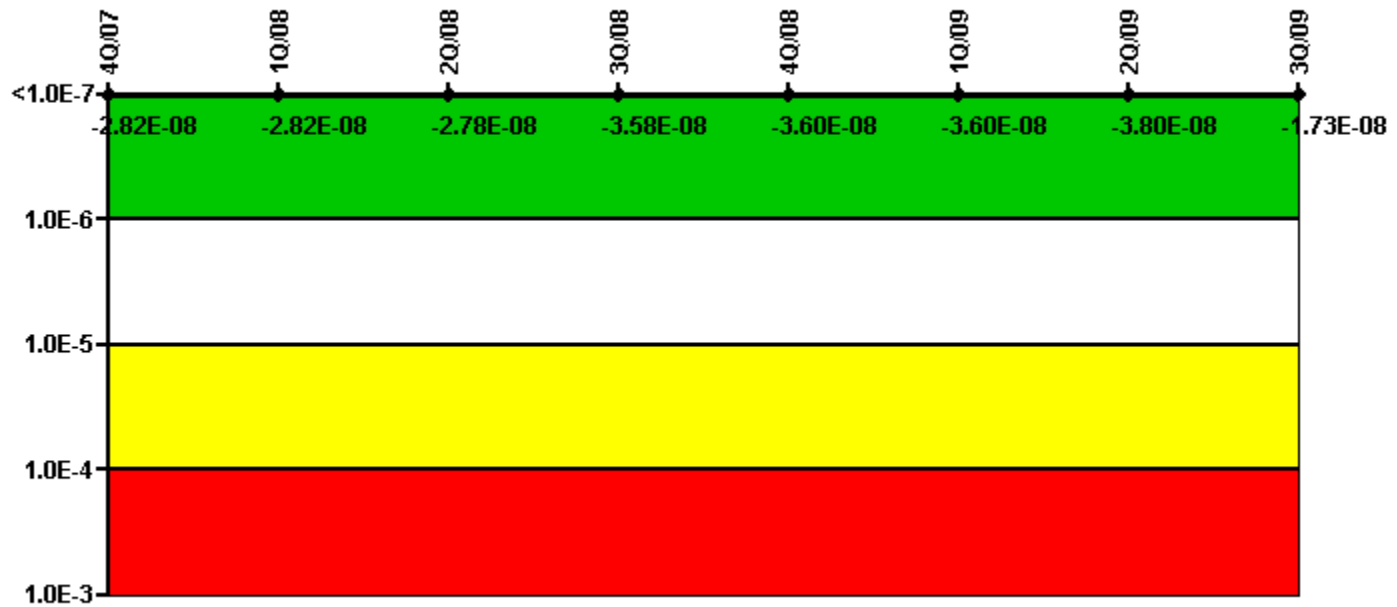
Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	1.00E-07	8.40E-08	1.50E-07	1.80E-07	1.70E-08	4.00E-08	4.90E-08	3.40E-09
URI (ΔCDF)	-4.40E-07	-4.40E-07	-4.50E-07	-4.50E-07	-4.50E-07	-4.50E-07	-7.90E-07	-2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.40E-07	-3.56E-07	-3.00E-07	-2.70E-07	-4.33E-07	-4.10E-07	-7.41E-07	-1.97E-07

Licensee Comments:

3Q/09: Changed PRA Parameter(s). PRA parameters were updated to reflect plant changes and PRA model improvements.

Mitigating Systems Performance Index, High Pressure Injection System



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

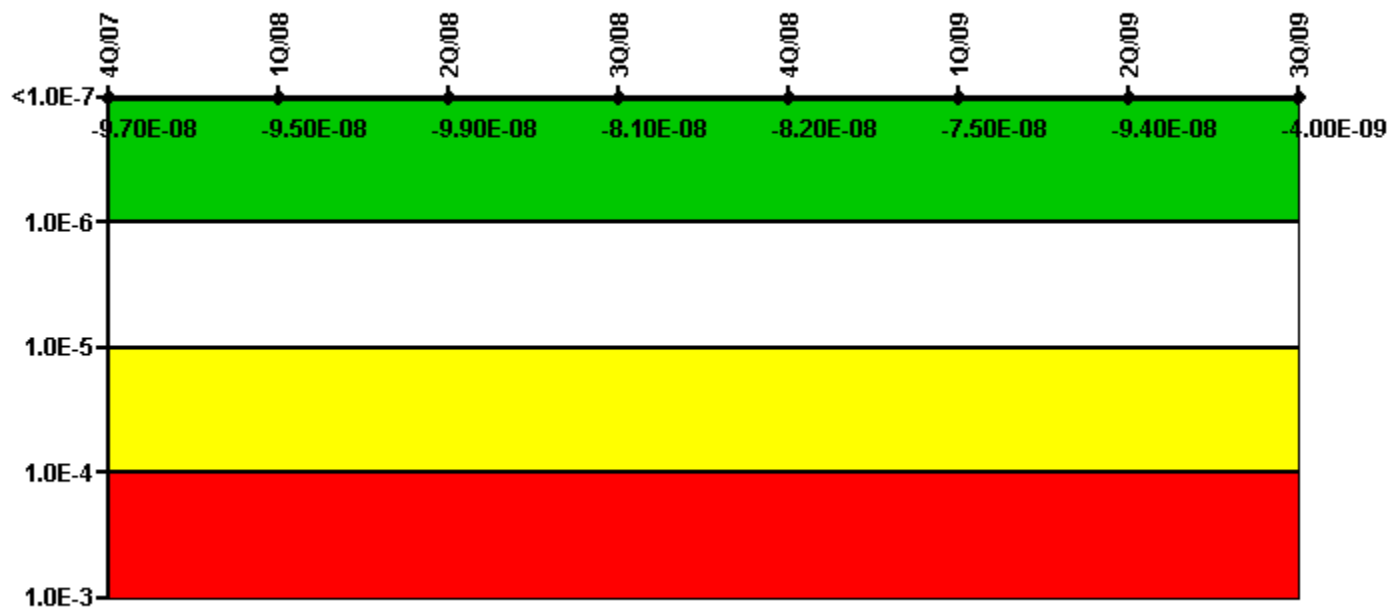
Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (Δ CDF)	-2.20E-09	-2.20E-09	-1.80E-09	-1.80E-09	-2.00E-09	-2.00E-09	-2.00E-09	-1.30E-09
URI (Δ CDF)	-2.60E-08	-2.60E-08	-2.60E-08	-3.40E-08	-3.40E-08	-3.40E-08	-3.60E-08	-1.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.82E-08	-2.82E-08	-2.78E-08	-3.58E-08	-3.60E-08	-3.60E-08	-3.80E-08	-1.73E-08

Licensee Comments:

3Q/09: Changed PRA Parameter(s). PRA parameters were updated to reflect plant changes and PRA model improvements.

Mitigating Systems Performance Index, Heat Removal System



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

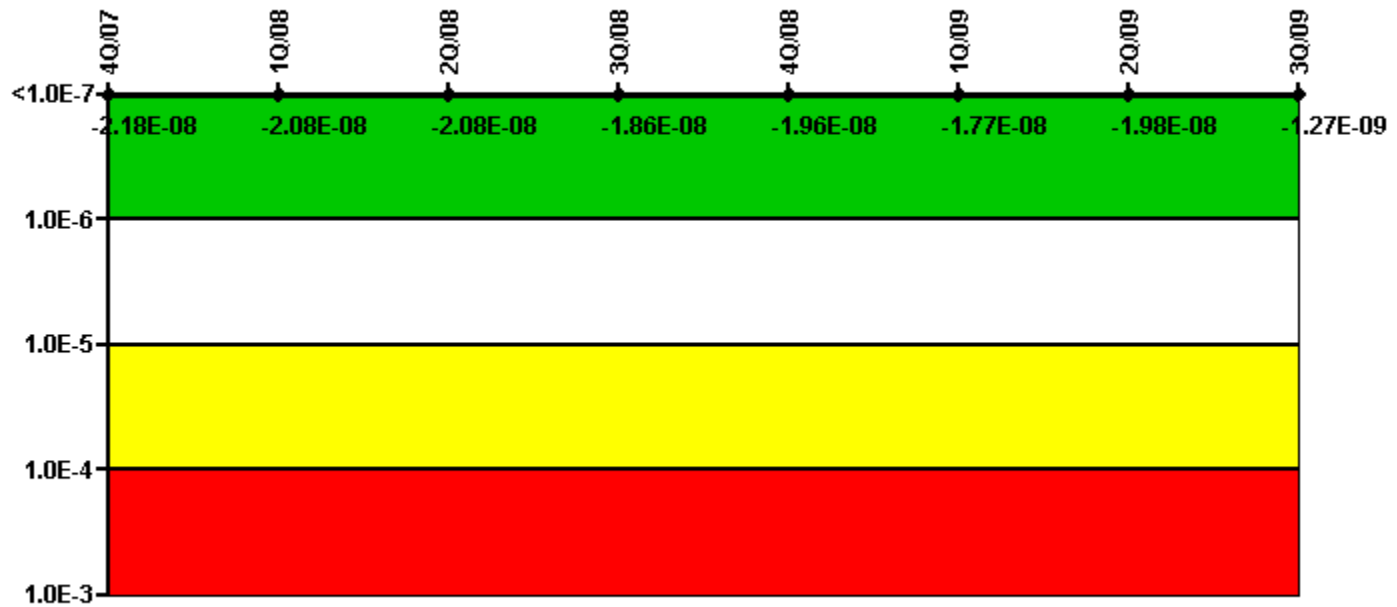
Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (Δ CDF)	2.30E-08	2.50E-08	2.10E-08	3.90E-08	3.80E-08	4.50E-08	2.60E-08	1.40E-08
URI (Δ CDF)	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.70E-08	-9.50E-08	-9.90E-08	-8.10E-08	-8.20E-08	-7.50E-08	-9.40E-08	-4.00E-09

Licensee Comments:

3Q/09: Changed PRA Parameter(s). PRA parameters were updated to reflect plant changes and PRA model improvements.

Mitigating Systems Performance Index, Residual Heat Removal System



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

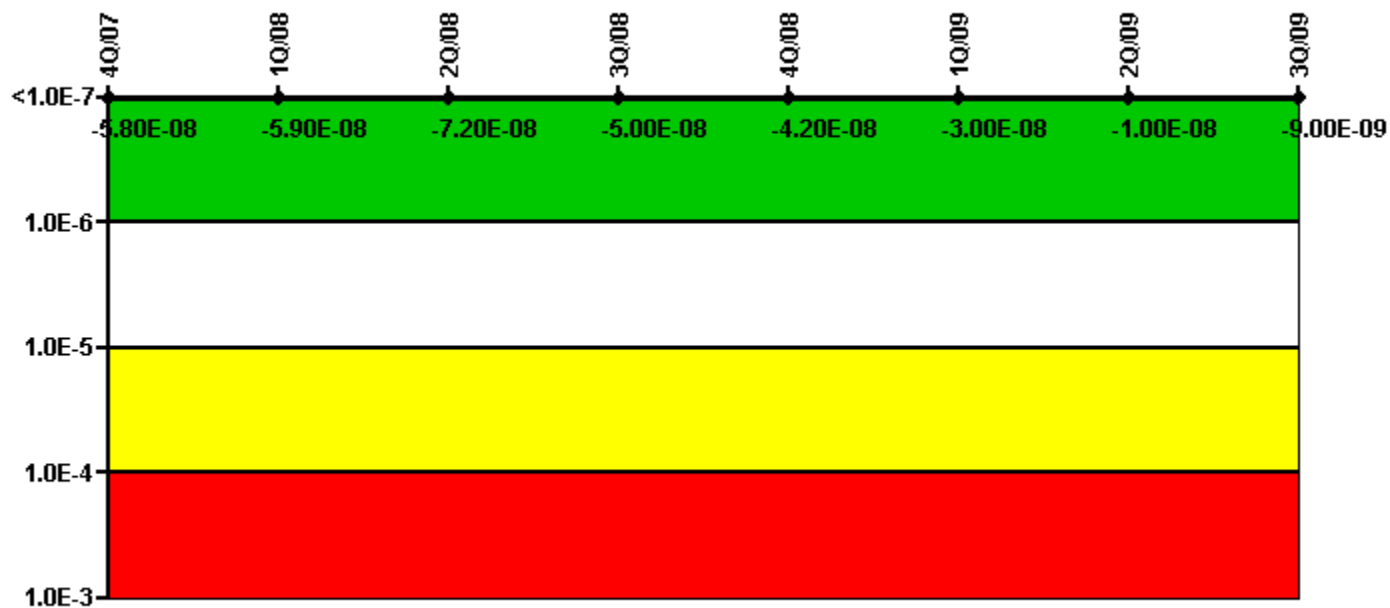
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (Δ CDF)	-4.80E-09	-4.80E-09	-4.80E-09	-2.60E-09	-4.60E-09	-2.70E-09	-2.80E-09	-1.70E-10
URI (Δ CDF)	-1.70E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.50E-08	-1.50E-08	-1.70E-08	-1.10E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.18E-08	-2.08E-08	-2.08E-08	-1.86E-08	-1.96E-08	-1.77E-08	-1.98E-08	-1.27E-09

Licensee Comments:

3Q/09: Changed PRA Parameter(s). PRA parameters were updated to reflect plant changes and PRA model improvements.

Mitigating Systems Performance Index, Cooling Water Systems



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

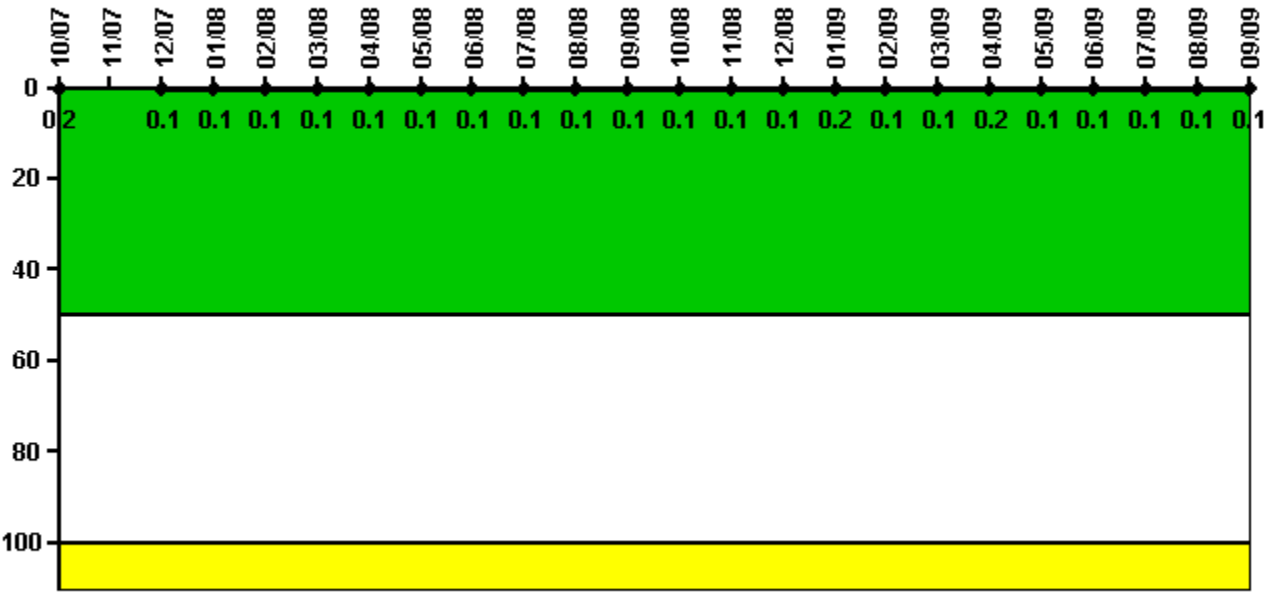
Notes

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)	9.20E-08	9.10E-08	7.80E-08	1.00E-07	9.80E-08	1.20E-07	1.40E-07	1.10E-08
URI (ΔCDF)	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.40E-07	-1.50E-07	-1.50E-07	-2.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.80E-08	-5.90E-08	-7.20E-08	-5.00E-08	-4.20E-08	-3.00E-08	-1.00E-08	-9.00E-09

Licensee Comments:

3Q/09: Changed PRA Parameter(s). PRA parameters were updated to reflect plant changes and PRA model improvements.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

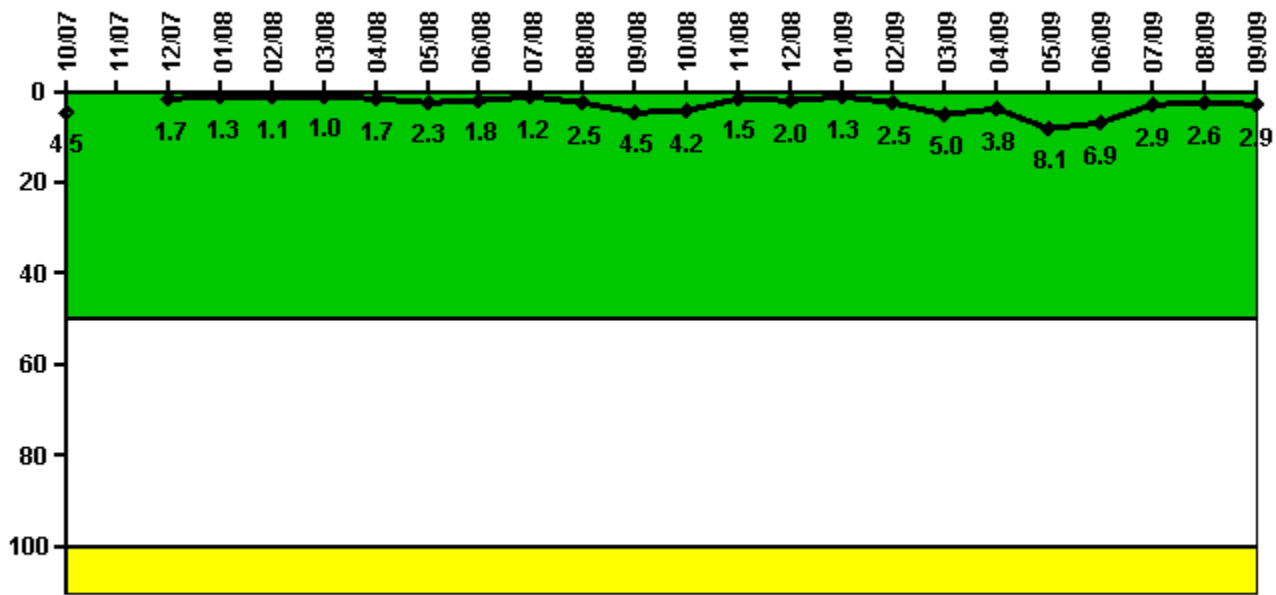
Notes

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	0.001750	N/A	0.001060	0.001250	0.001120	0.000964	0.000905	0.001270	0.001210	0.001070	0.001030	0.001100
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Reactor Coolant System Activity	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	0.001140	0.001310	0.001410	0.001580	0.001420	0.001480	0.001630	0.000819	0.000665	0.000750	0.000796	0.000851
Technical specification limit	1.0	1.0	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	0.1	0.2	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



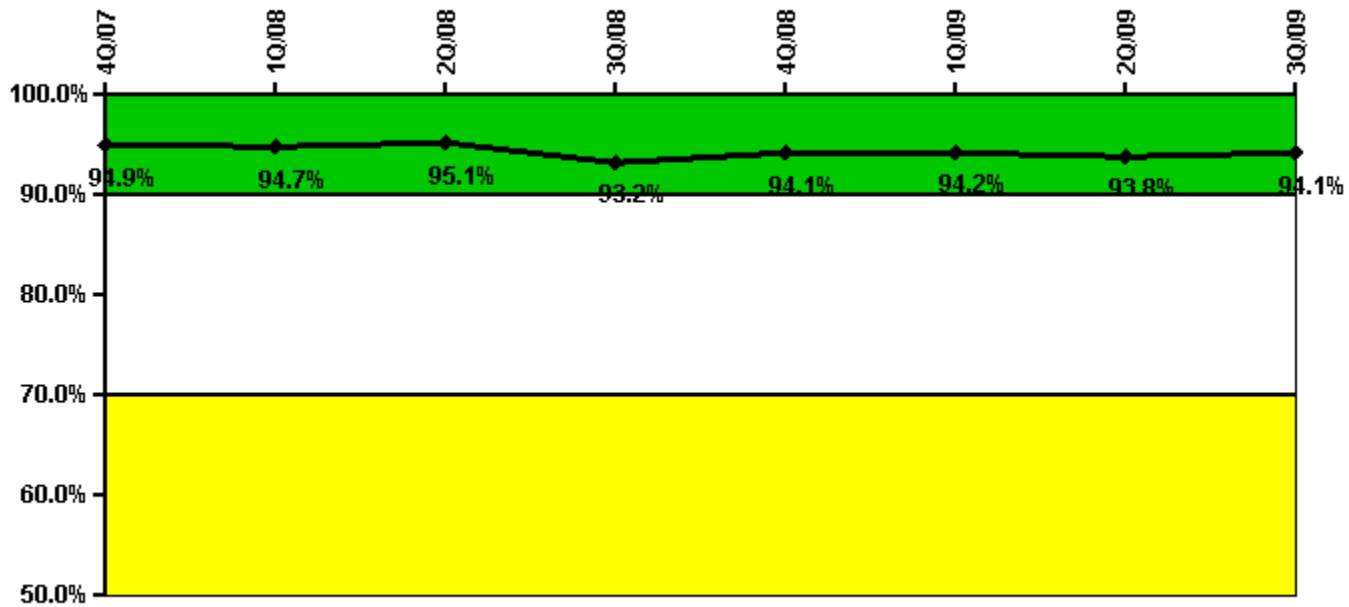
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.450	N/A	0.170	0.130	0.110	0.100	0.170	0.230	0.180	0.120	0.250	0.450
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	4.5	N/A	1.7	1.3	1.1	1.0	1.7	2.3	1.8	1.2	2.5	4.5
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	0.420	0.150	0.200	0.130	0.250	0.500	0.380	0.810	0.690	0.290	0.260	0.290
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	4.2	1.5	2.0	1.3	2.5	5.0	3.8	8.1	6.9	2.9	2.6	2.9

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

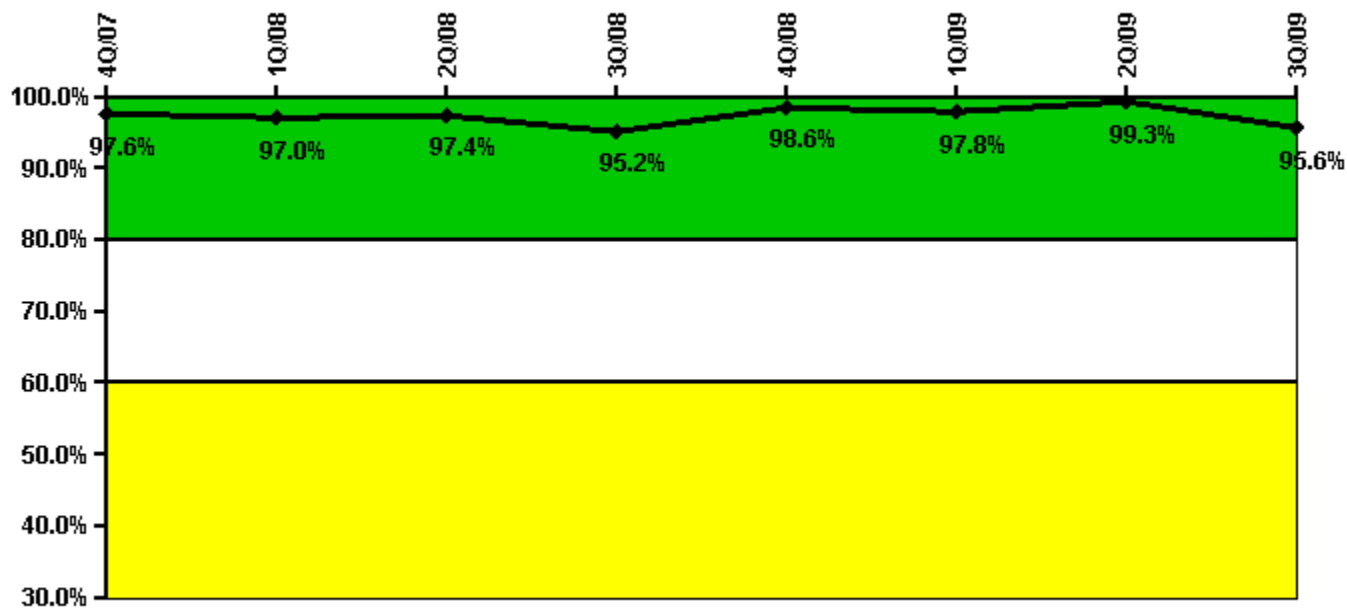
Notes

Drill/Exercise Performance	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful opportunities	24.0	43.0	41.0	37.0	20.0	36.0	36.0	20.0
Total opportunities	24.0	45.0	42.0	43.0	21.0	38.0	39.0	21.0
Indicator value	94.9%	94.7%	95.1%	93.2%	94.1%	94.2%	93.8%	94.1%

Licensee Comments:

3Q/09: An assessment revealed one drill opportunity was not accounted for in May 2009. Historical data was corrected with no change in color.

ERO Drill Participation



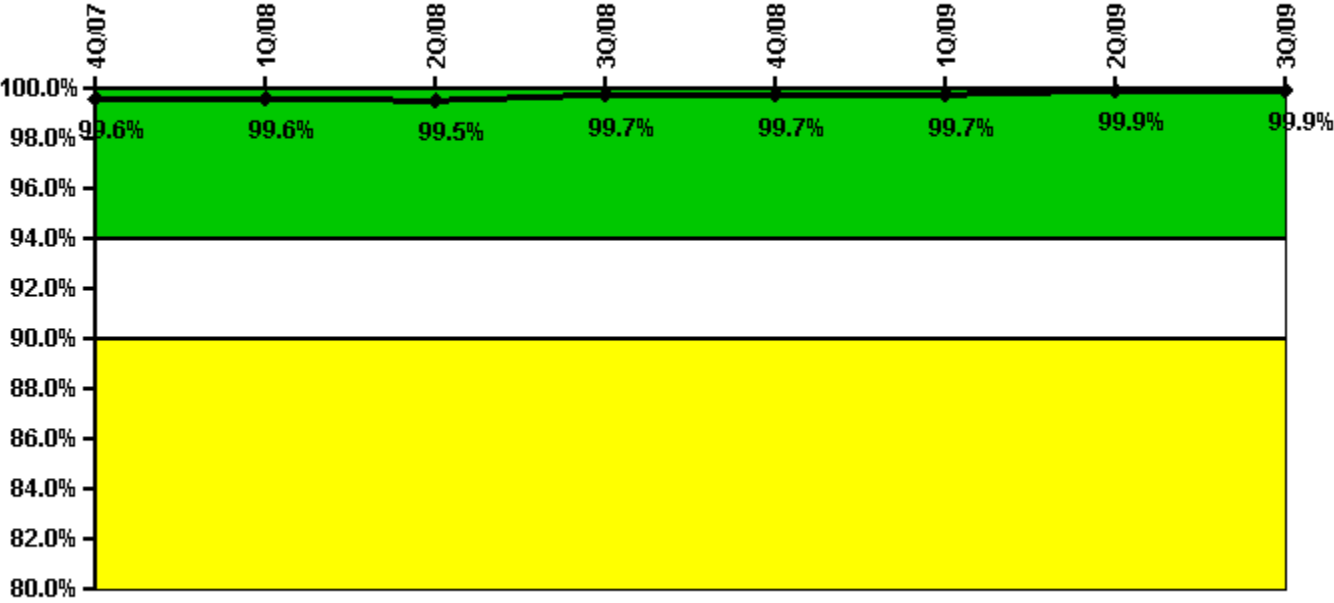
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Participating Key personnel	160.0	128.0	149.0	138.0	144.0	133.0	136.0	130.0
Total Key personnel	164.0	132.0	153.0	145.0	146.0	136.0	137.0	136.0
Indicator value	97.6%	97.0%	97.4%	95.2%	98.6%	97.8%	99.3%	95.6%

Licensee Comments: none

Alert & Notification System



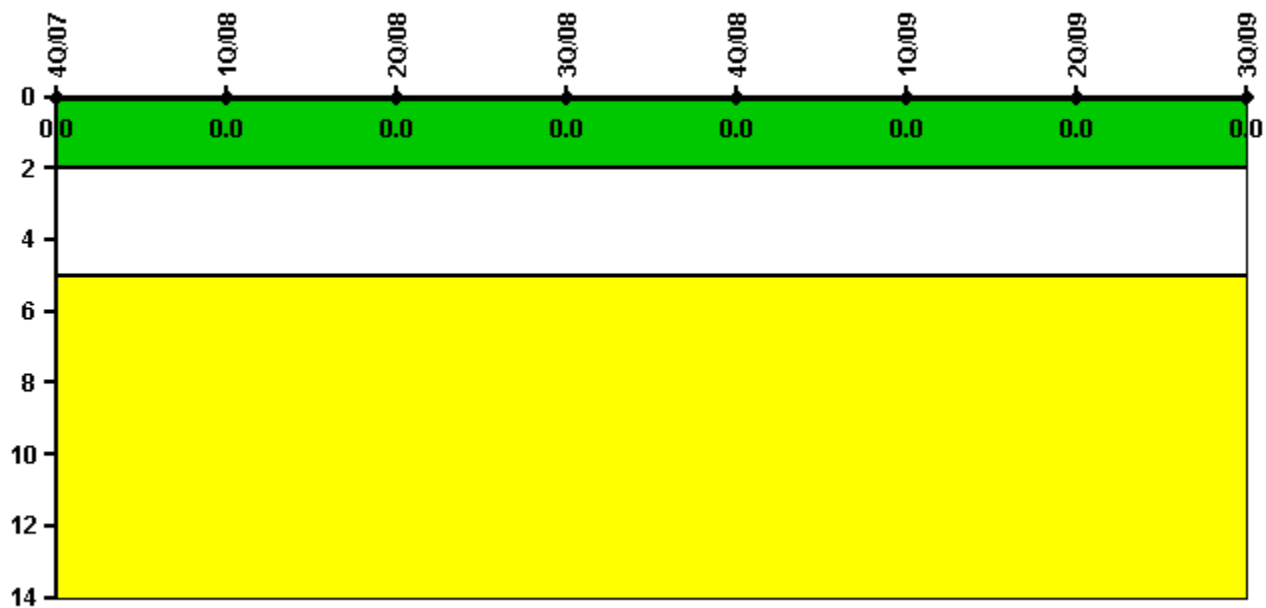
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful siren-tests	476	543	472	475	544	476	475	543
Total sirens-tests	476	544	476	476	544	476	476	544
Indicator value	99.6%	99.6%	99.5%	99.7%	99.7%	99.7%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



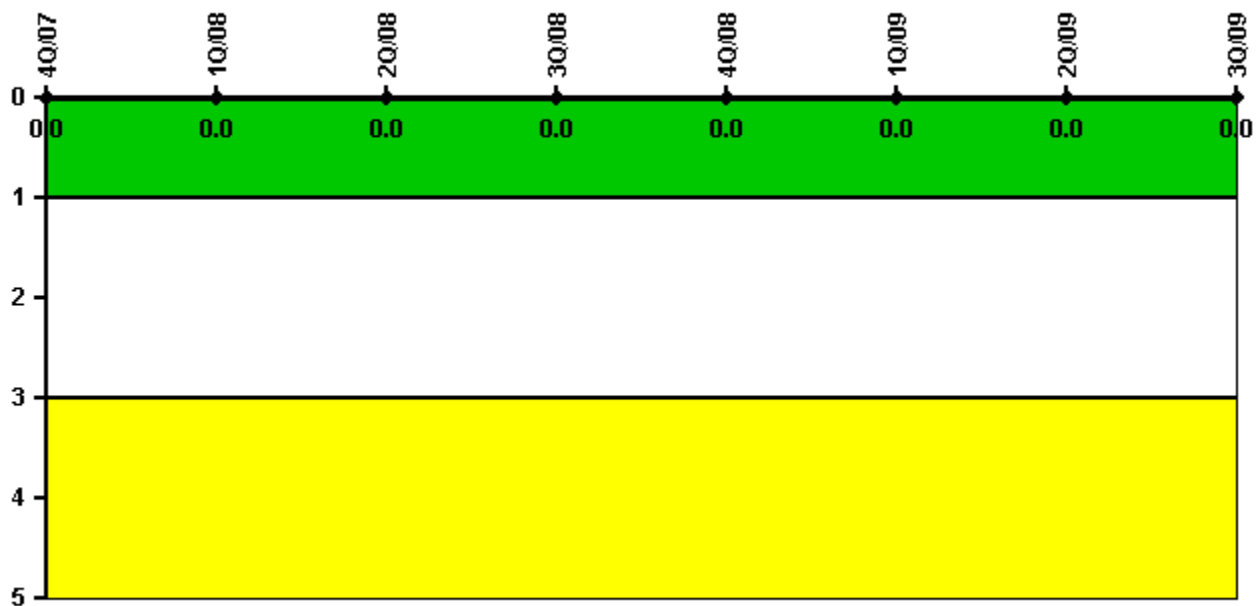
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/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

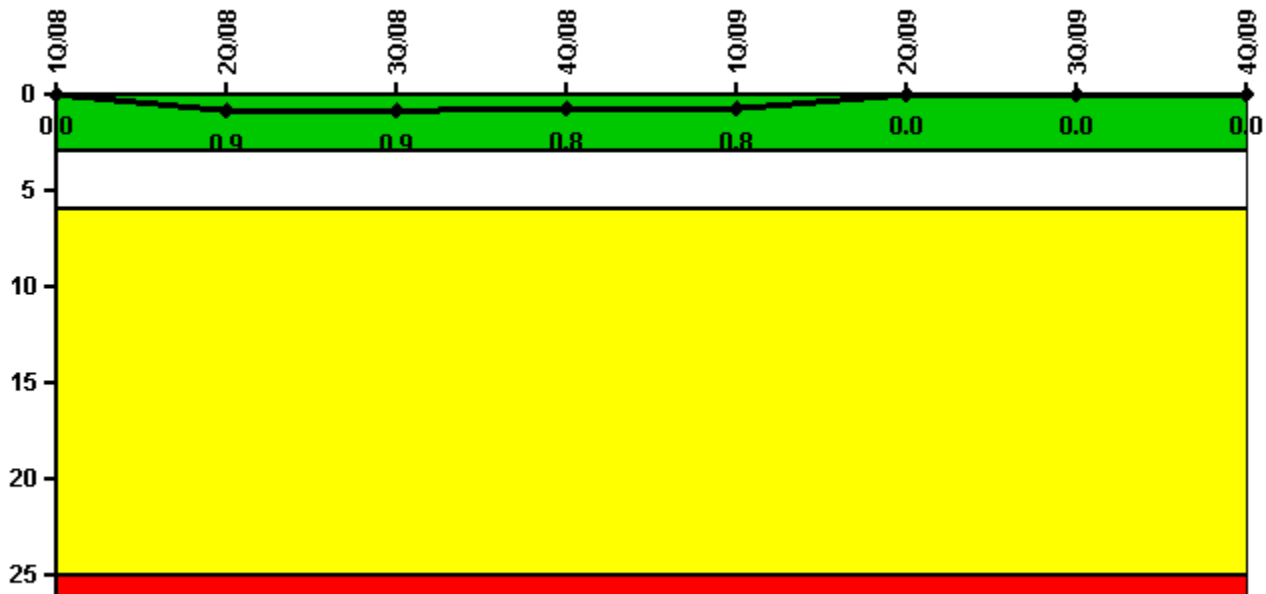
[Security](#) information not publicly available.

Surry 1

4Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



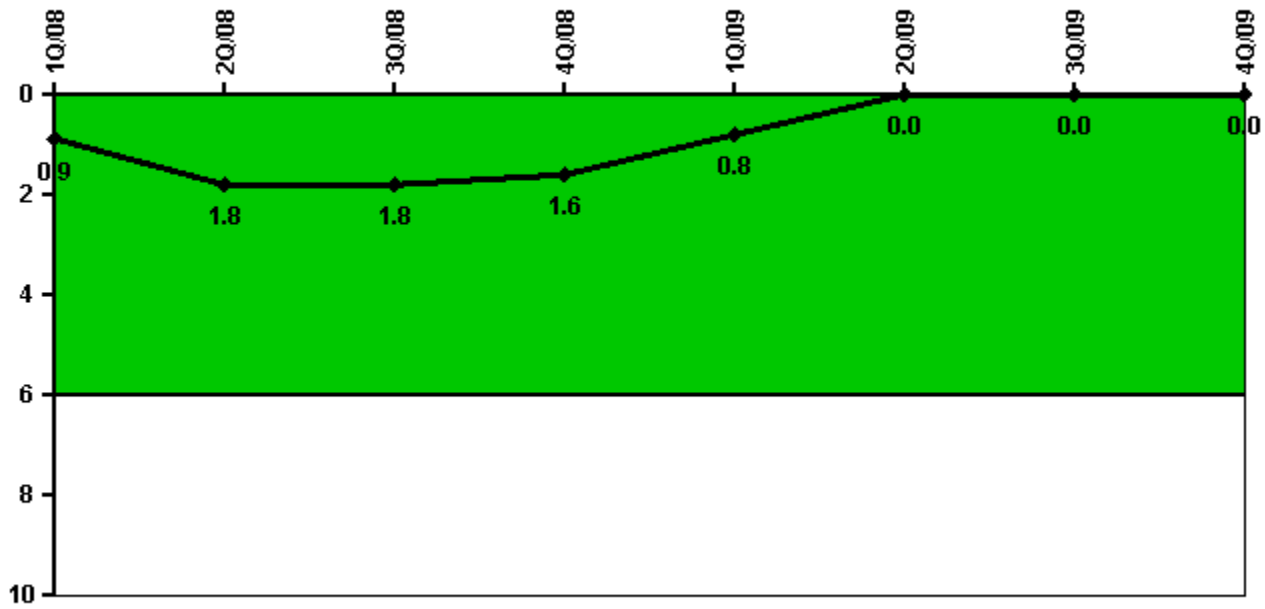
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2183.0	2081.1	2208.0	2118.0	2159.0	1655.9	2208.0	2209.0
Indicator value	0	0.9	0.9	0.8	0.8	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



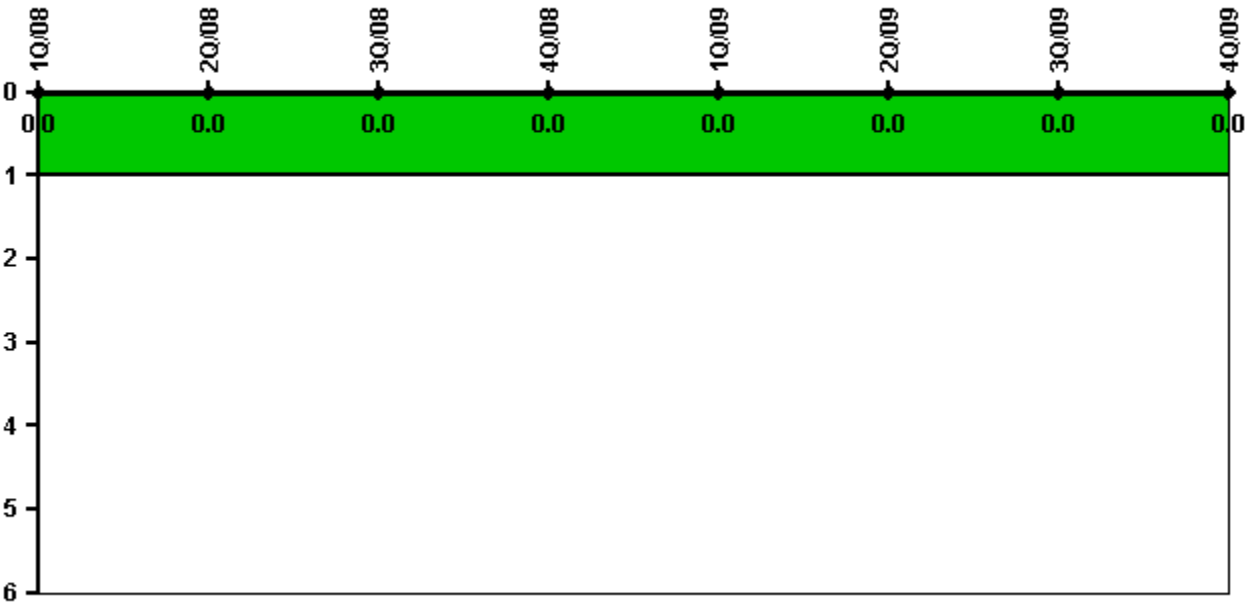
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	1.0	1.0	0	0	0	0	0	0
Critical hours	2183.0	2081.1	2208.0	2118.0	2159.0	1655.9	2208.0	2209.0
Indicator value	0.9	1.8	1.8	1.6	0.8	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



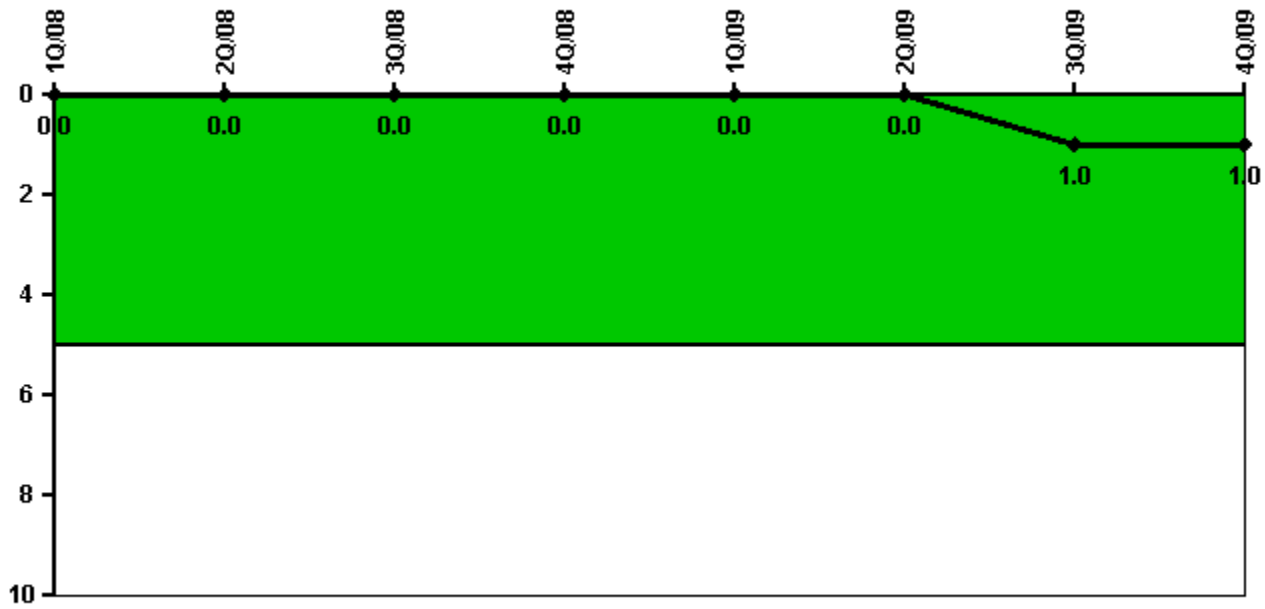
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



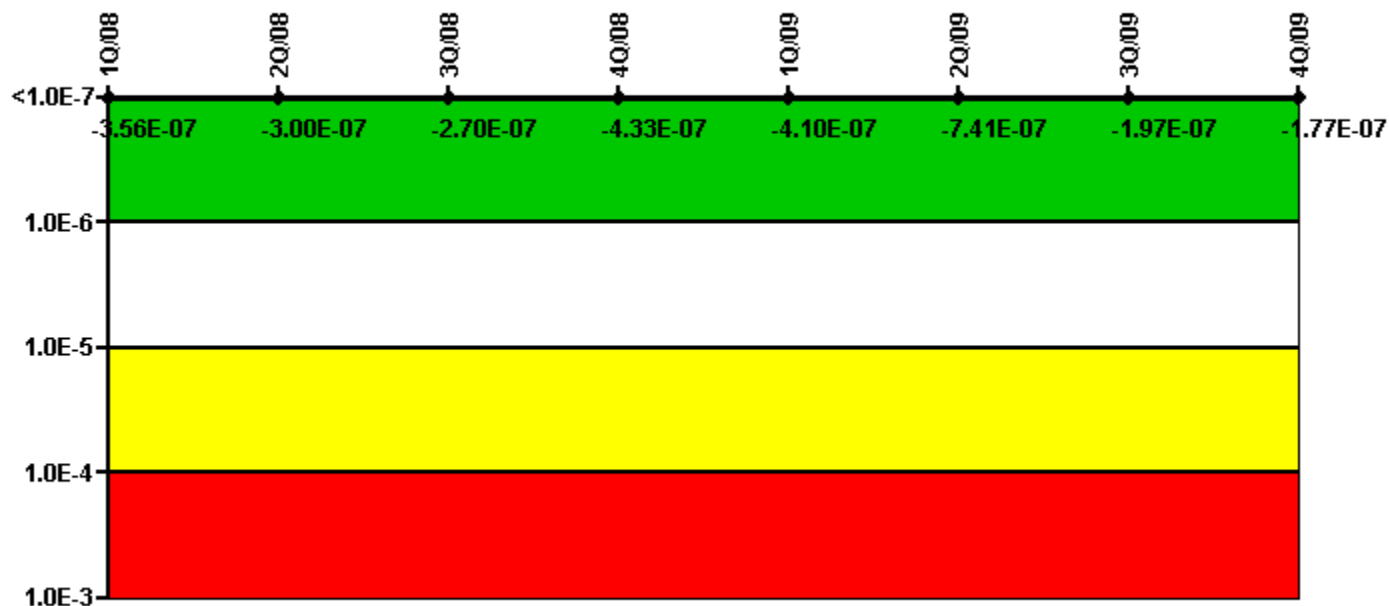
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

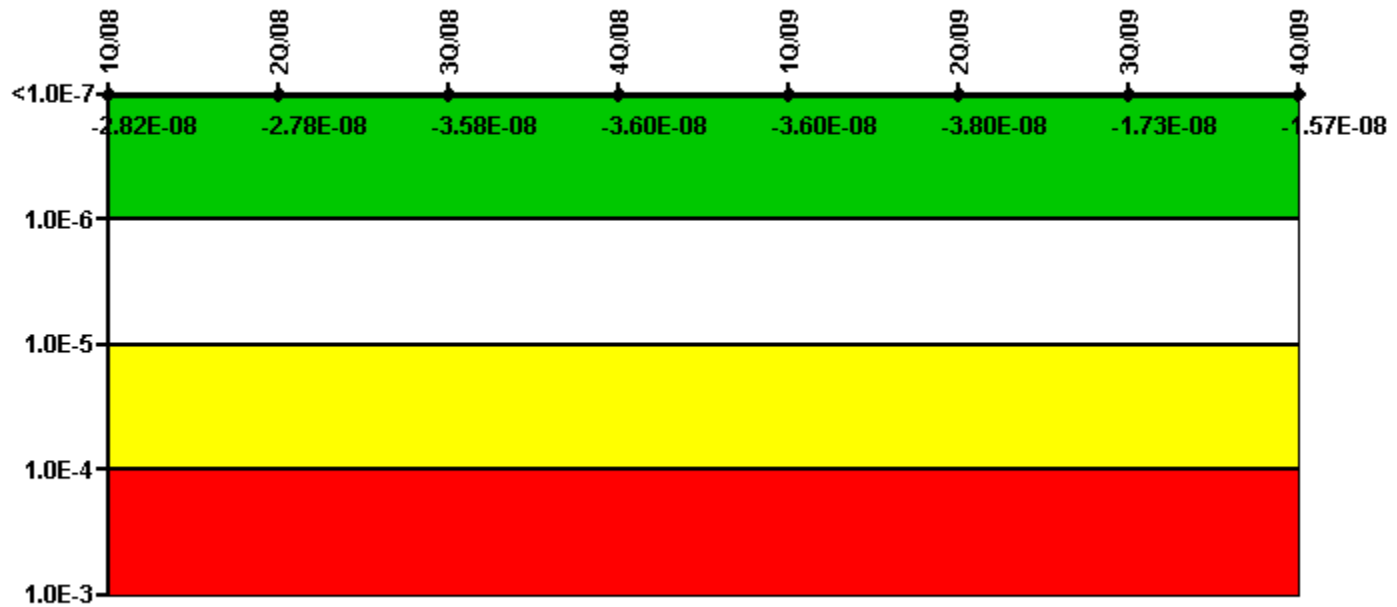
Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	8.40E-08	1.50E-07	1.80E-07	1.70E-08	4.00E-08	4.90E-08	3.40E-09	3.30E-09
URI (ΔCDF)	-4.40E-07	-4.50E-07	-4.50E-07	-4.50E-07	-4.50E-07	-7.90E-07	-2.00E-07	-1.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.56E-07	-3.00E-07	-2.70E-07	-4.33E-07	-4.10E-07	-7.41E-07	-1.97E-07	-1.77E-07

Licensee Comments:

4Q/09: Changed PRA Parameter(s). PRA parameters were updated to reflect plant changes and PRA model improvements.

Mitigating Systems Performance Index, High Pressure Injection System



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

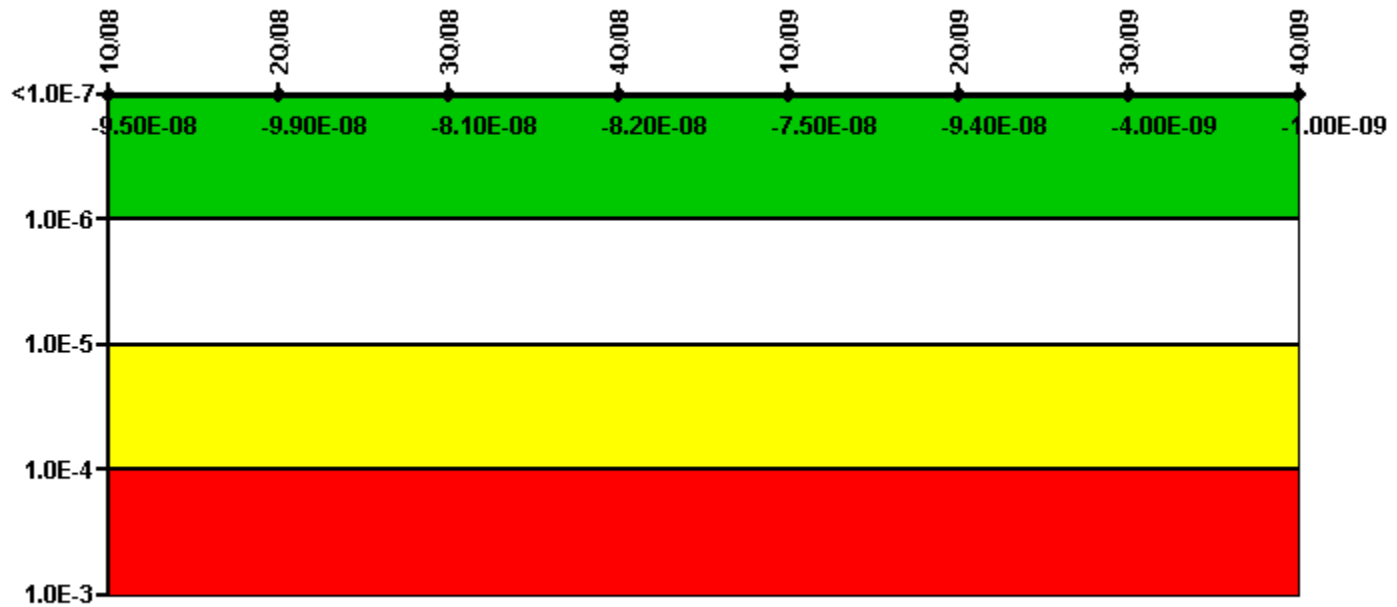
Notes

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)	-2.20E-09	-1.80E-09	-1.80E-09	-2.00E-09	-2.00E-09	-2.00E-09	-1.30E-09	-7.40E-10
URI (ΔCDF)	-2.60E-08	-2.60E-08	-3.40E-08	-3.40E-08	-3.40E-08	-3.60E-08	-1.60E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.82E-08	-2.78E-08	-3.58E-08	-3.60E-08	-3.60E-08	-3.80E-08	-1.73E-08	-1.57E-08

Licensee Comments:

4Q/09: Changed PRA Parameter(s). PRA parameters were updated to reflect plant changes and PRA model improvements.

Mitigating Systems Performance Index, Heat Removal System



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

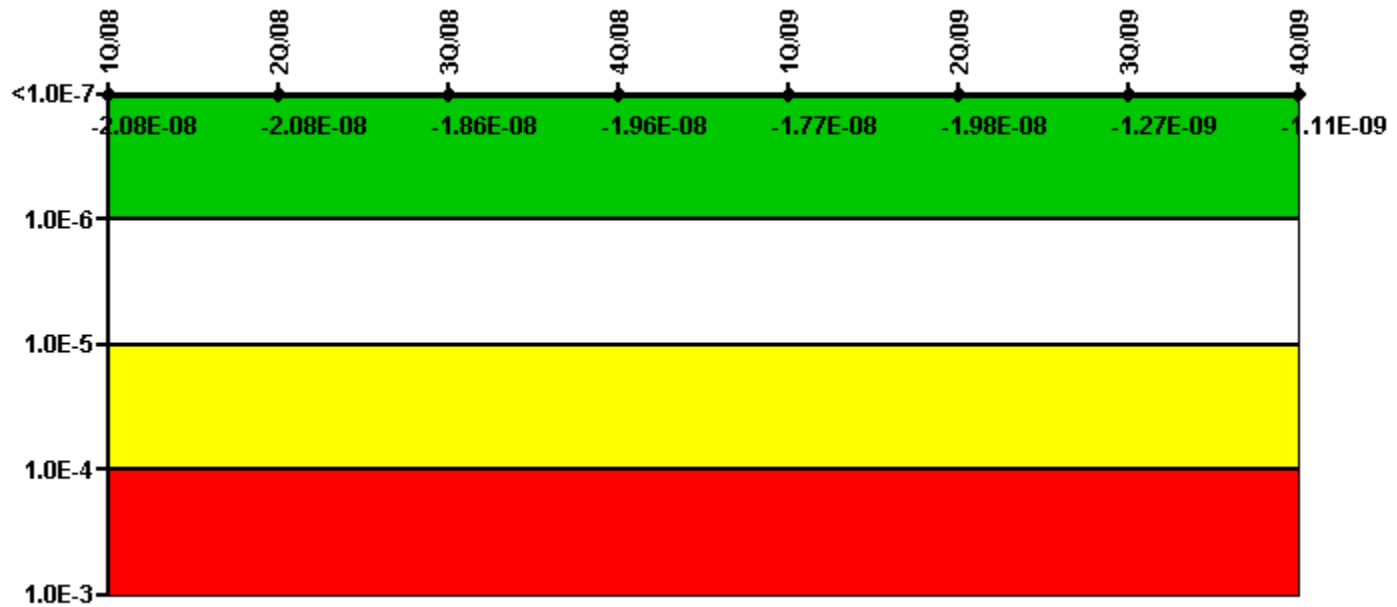
Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	2.50E-08	2.10E-08	3.90E-08	3.80E-08	4.50E-08	2.60E-08	1.40E-08	1.40E-08
URI (Δ CDF)	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.80E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.50E-08	-9.90E-08	-8.10E-08	-8.20E-08	-7.50E-08	-9.40E-08	-4.00E-09	-1.00E-09

Licensee Comments:

4Q/09: Changed PRA Parameter(s). PRA parameters were updated to reflect plant changes and PRA model improvements.

Mitigating Systems Performance Index, Residual Heat Removal System



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

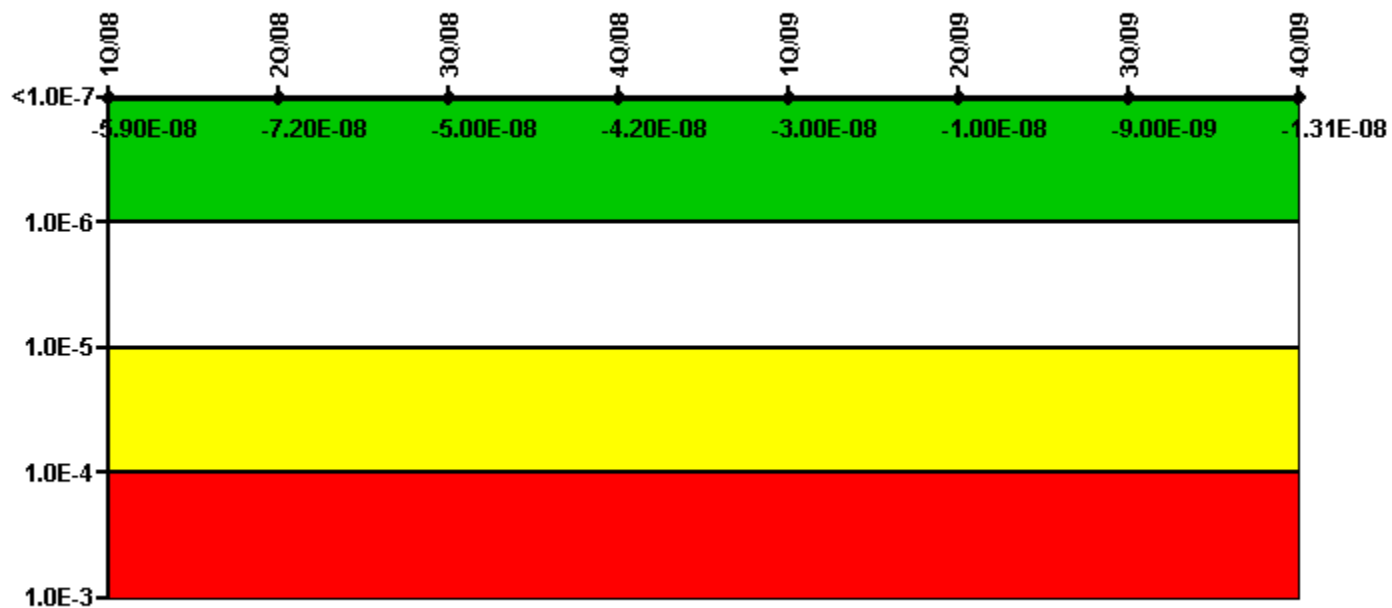
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	-4.80E-09	-4.80E-09	-2.60E-09	-4.60E-09	-2.70E-09	-2.80E-09	-1.70E-10	-1.70E-10
URI (Δ CDF)	-1.60E-08	-1.60E-08	-1.60E-08	-1.50E-08	-1.50E-08	-1.70E-08	-1.10E-09	-9.40E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.08E-08	-2.08E-08	-1.86E-08	-1.96E-08	-1.77E-08	-1.98E-08	-1.27E-09	-1.11E-09

Licensee Comments:

4Q/09: Changed PRA Parameter(s). PRA parameters were updated to reflect plant changes and PRA model improvements.

Mitigating Systems Performance Index, Cooling Water Systems



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

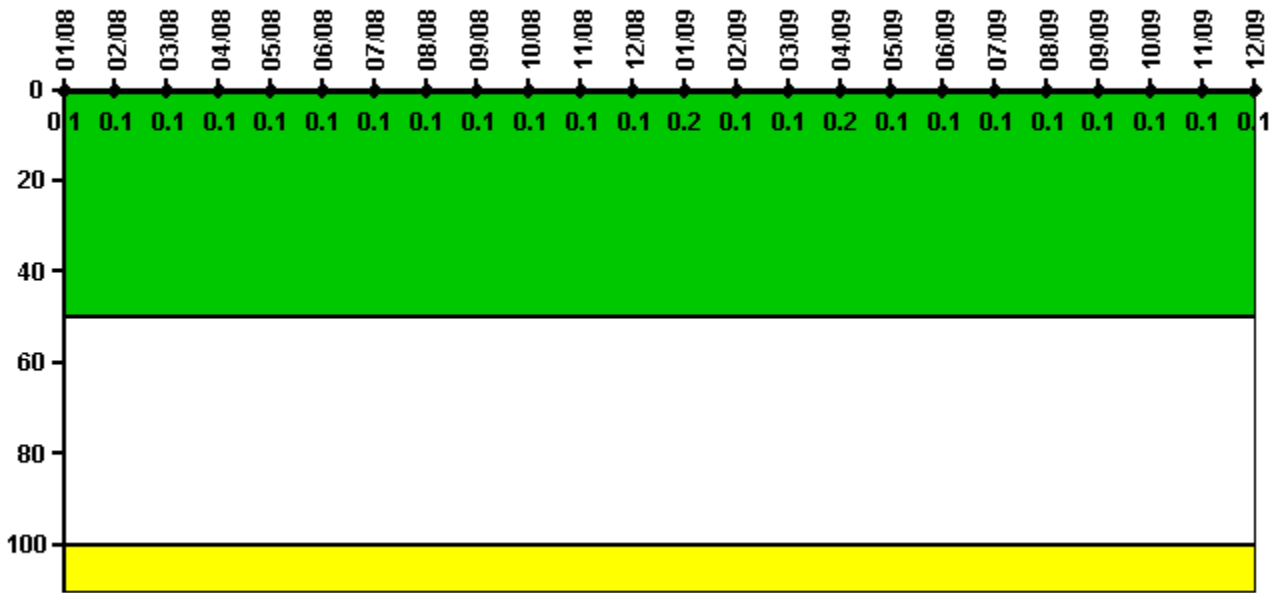
Notes

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)	9.10E-08	7.80E-08	1.00E-07	9.80E-08	1.20E-07	1.40E-07	1.10E-08	6.90E-09
URI (ΔCDF)	-1.50E-07	-1.50E-07	-1.50E-07	-1.40E-07	-1.50E-07	-1.50E-07	-2.00E-08	-2.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.90E-08	-7.20E-08	-5.00E-08	-4.20E-08	-3.00E-08	-1.00E-08	-9.00E-09	-1.31E-08

Licensee Comments:

4Q/09: Changed PRA Parameter(s). PRA parameters were updated to reflect plant changes and PRA model improvements.

Reactor Coolant System Activity



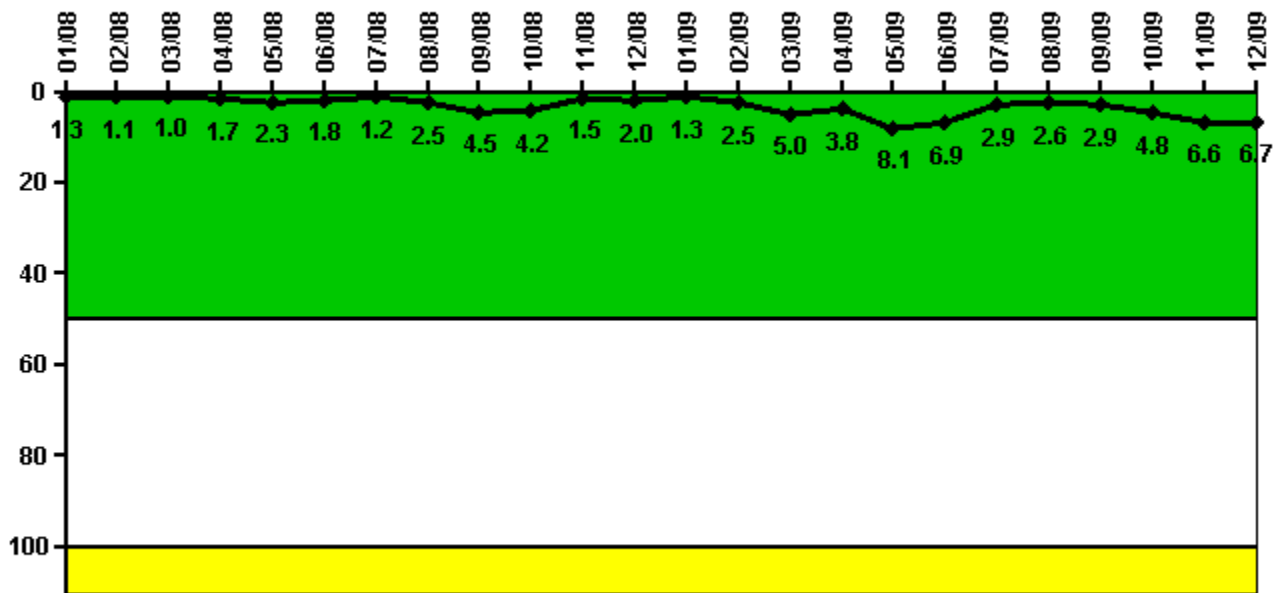
Thresholds: White > 50.0 Yellow > 100.0

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	0.001250	0.001120	0.000964	0.000905	0.001270	0.001210	0.001070	0.001030	0.001100	0.001140	0.001310	0.001410
Technical specification limit	1.0	1.0	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	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum activity	0.001580	0.001420	0.001480	0.001630	0.000819	0.000665	0.000750	0.000796	0.000851	0.000981	0.000996	0.001130
Technical specification limit	1.0	1.0	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	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



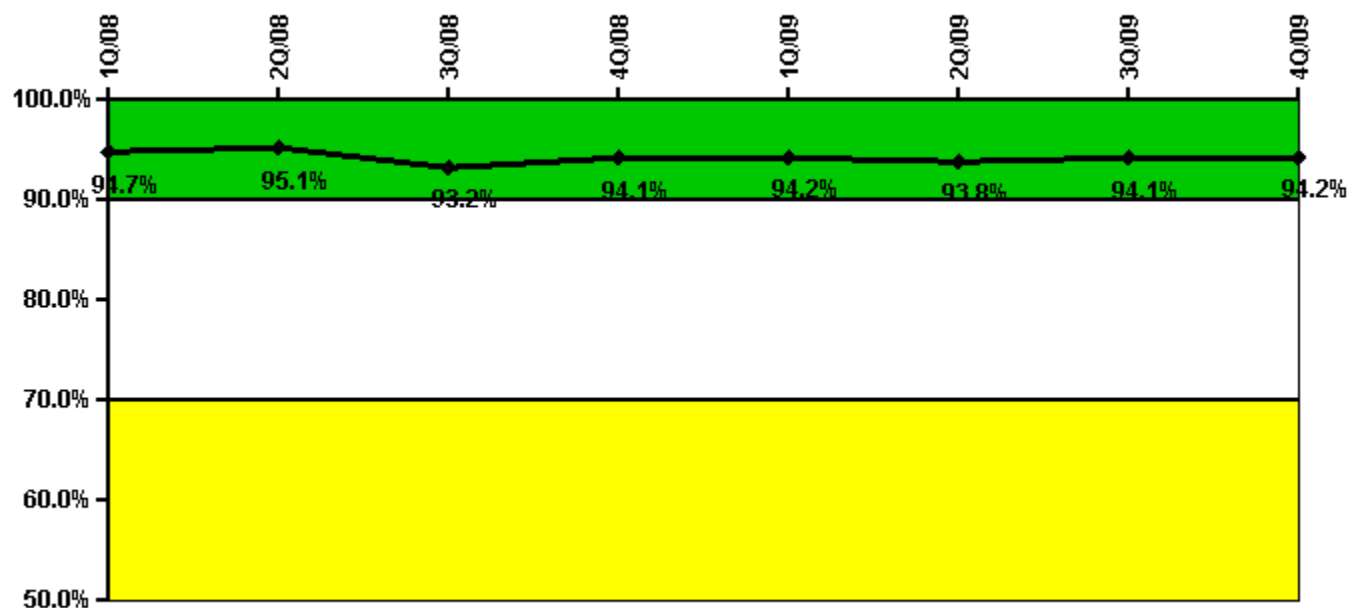
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum leakage	0.130	0.110	0.100	0.170	0.230	0.180	0.120	0.250	0.450	0.420	0.150	0.200
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.1	1.0	1.7	2.3	1.8	1.2	2.5	4.5	4.2	1.5	2.0
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	0.130	0.250	0.500	0.380	0.810	0.690	0.290	0.260	0.290	0.480	0.660	0.670
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	2.5	5.0	3.8	8.1	6.9	2.9	2.6	2.9	4.8	6.6	6.7

Licensee Comments: none

Drill/Exercise Performance



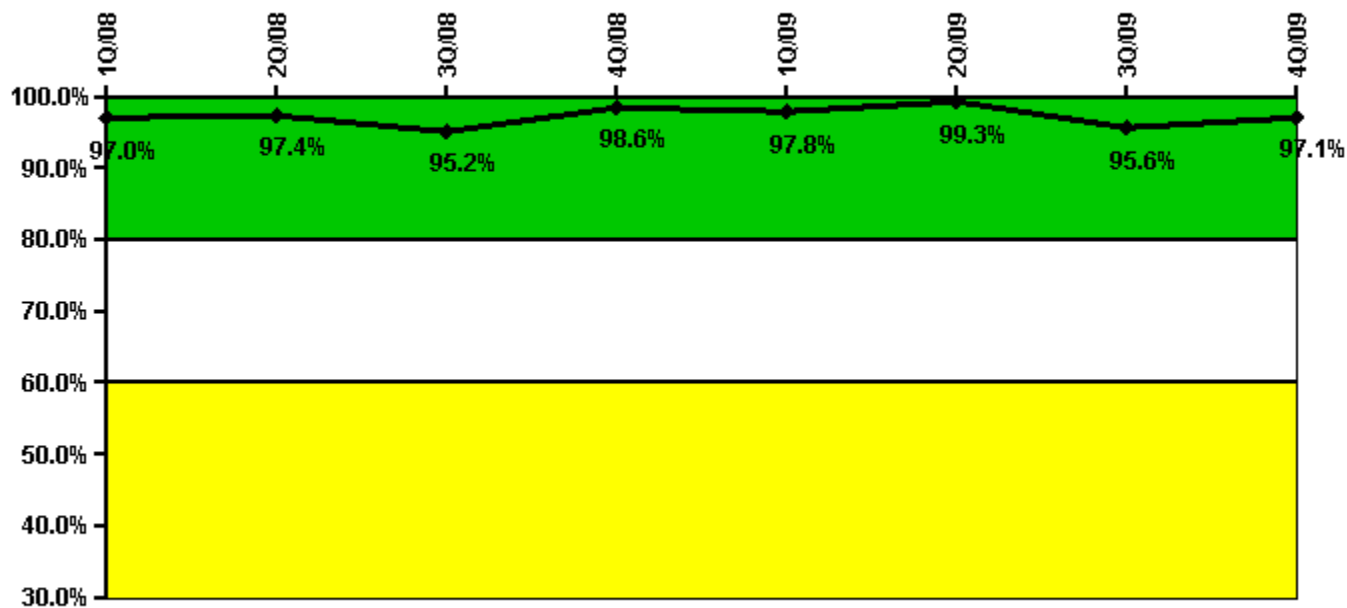
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful opportunities	43.0	41.0	37.0	20.0	36.0	36.0	20.0	26.0
Total opportunities	45.0	42.0	43.0	21.0	38.0	39.0	21.0	26.0
Indicator value	94.7%	95.1%	93.2%	94.1%	94.2%	93.8%	94.1%	94.2%

Licensee Comments: none

ERO Drill Participation



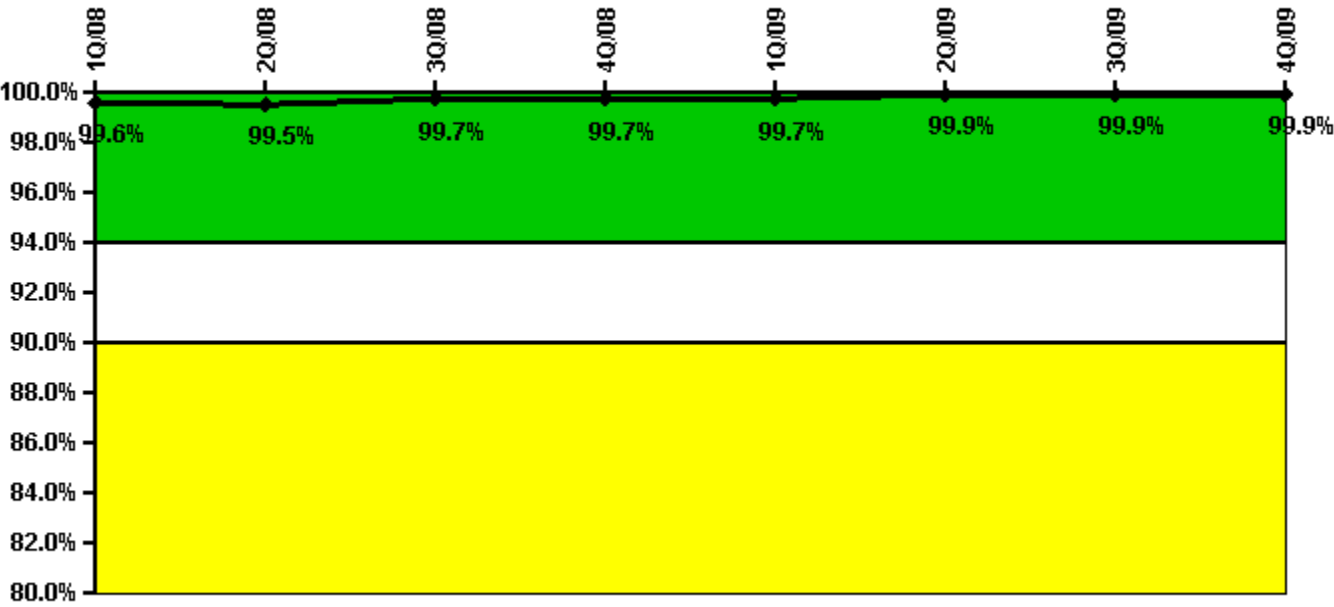
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Participating Key personnel	128.0	149.0	138.0	144.0	133.0	136.0	130.0	135.0
Total Key personnel	132.0	153.0	145.0	146.0	136.0	137.0	136.0	139.0
Indicator value	97.0%	97.4%	95.2%	98.6%	97.8%	99.3%	95.6%	97.1%

Licensee Comments: none

Alert & Notification System



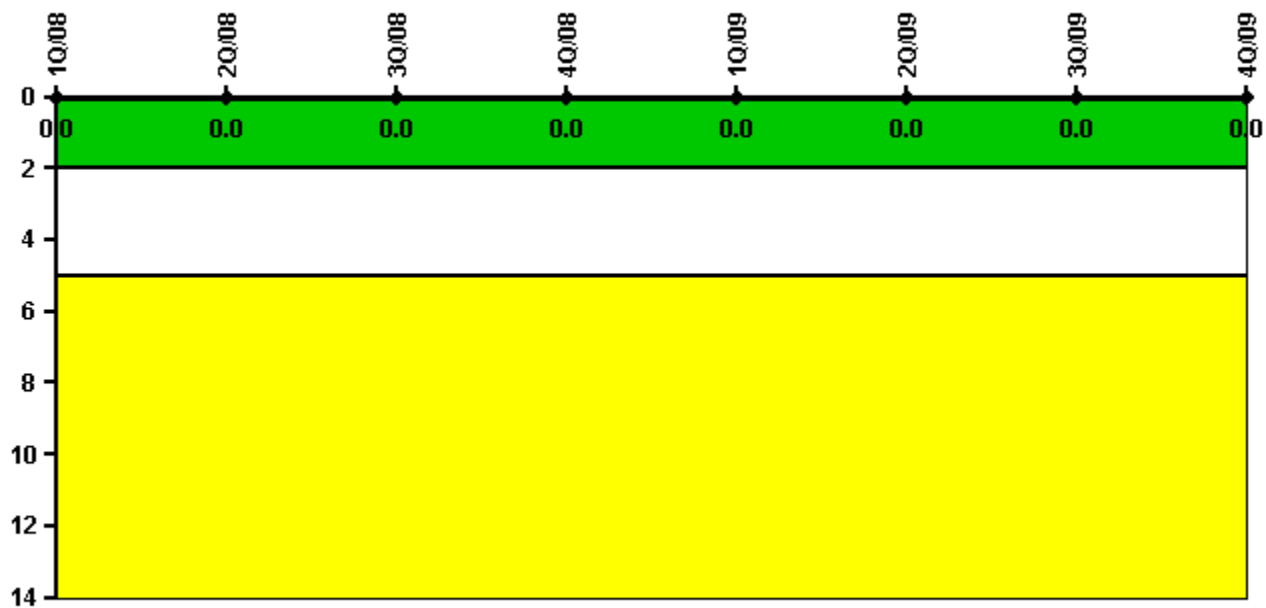
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful siren-tests	543	472	475	544	476	475	543	544
Total sirens-tests	544	476	476	544	476	476	544	544
Indicator value	99.6%	99.5%	99.7%	99.7%	99.7%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



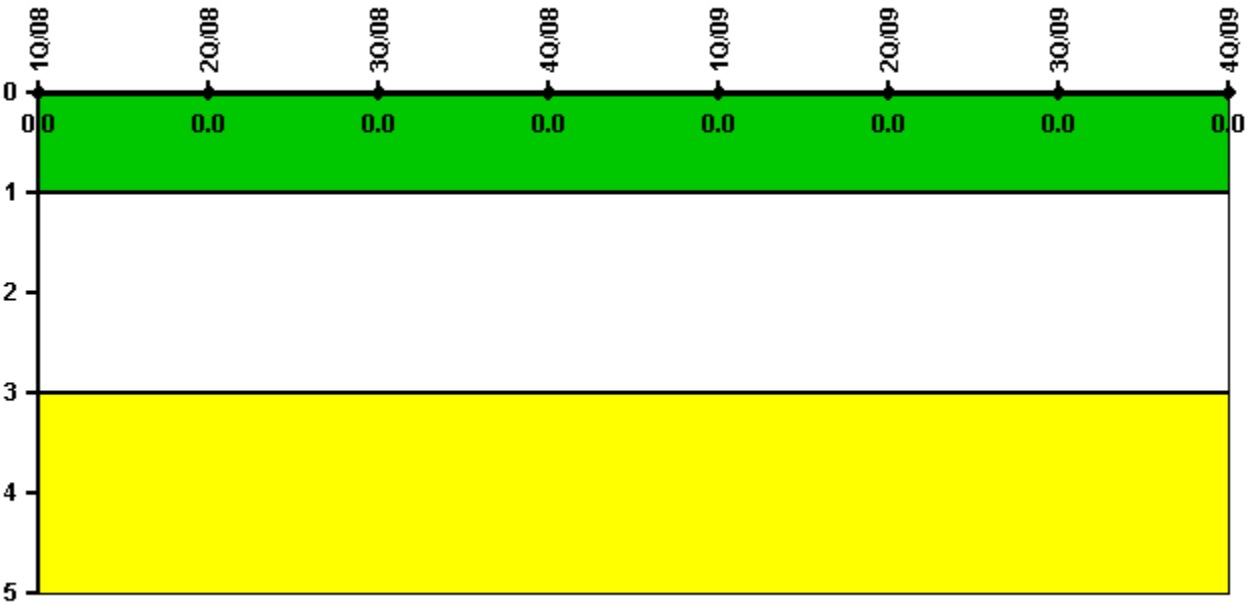
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/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

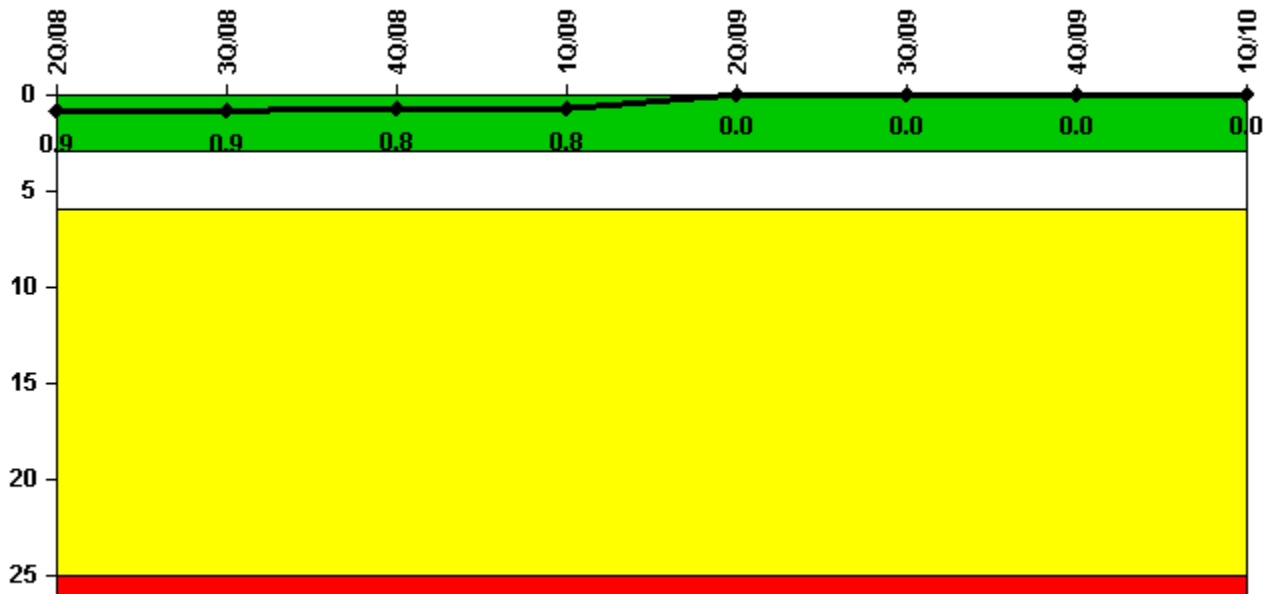
[Security](#) information not publicly available.

Surry 1

1Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



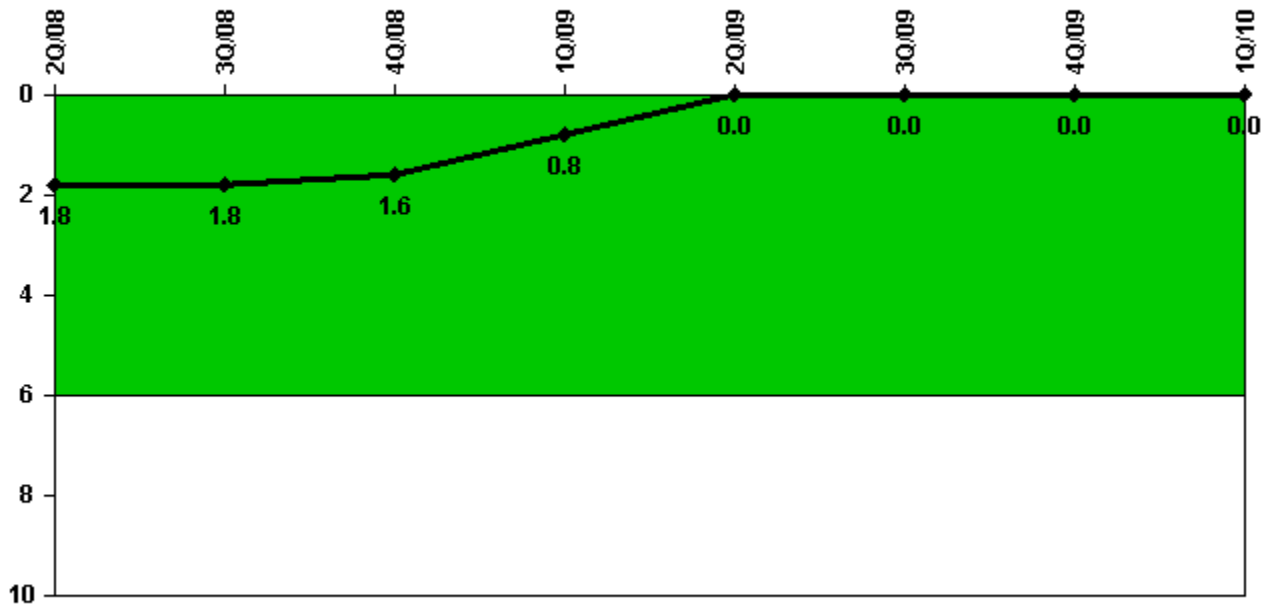
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2081.1	2208.0	2118.0	2159.0	1655.9	2208.0	2209.0	2159.0
Indicator value	0.9	0.9	0.8	0.8	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



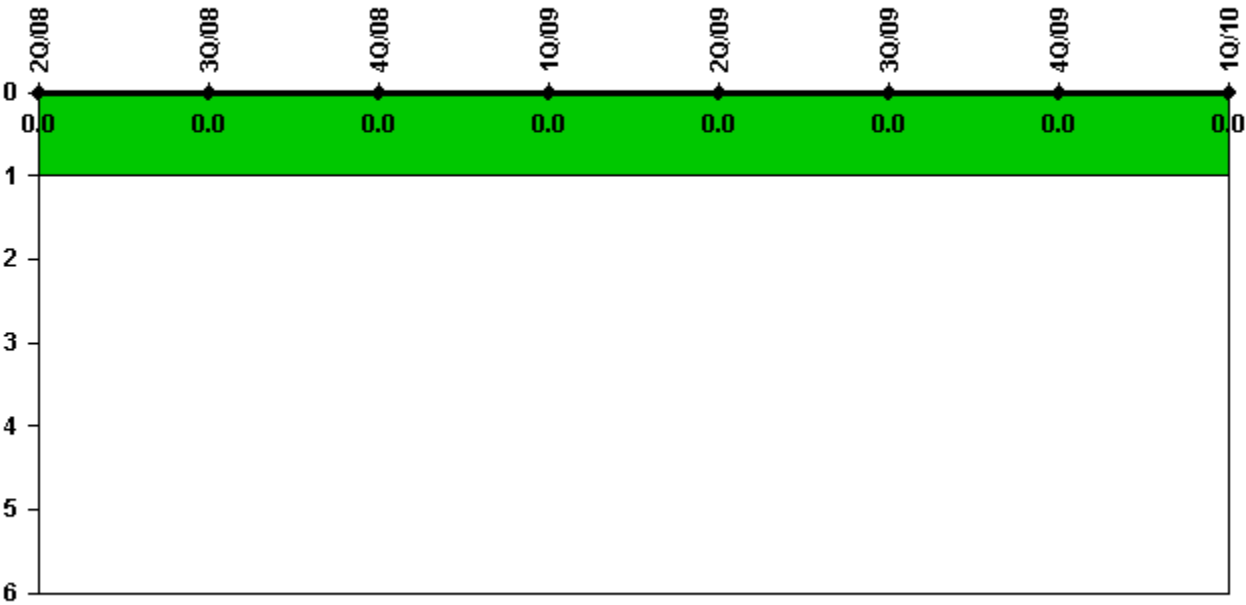
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2081.1	2208.0	2118.0	2159.0	1655.9	2208.0	2209.0	2159.0
Indicator value	1.8	1.8	1.6	0.8	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



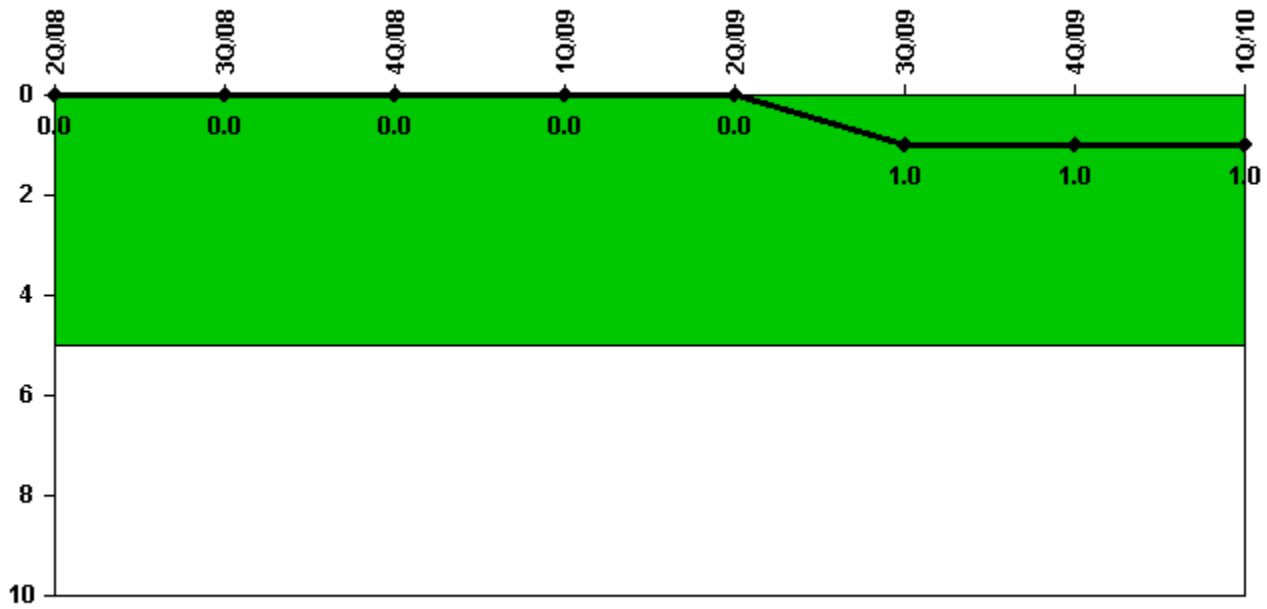
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



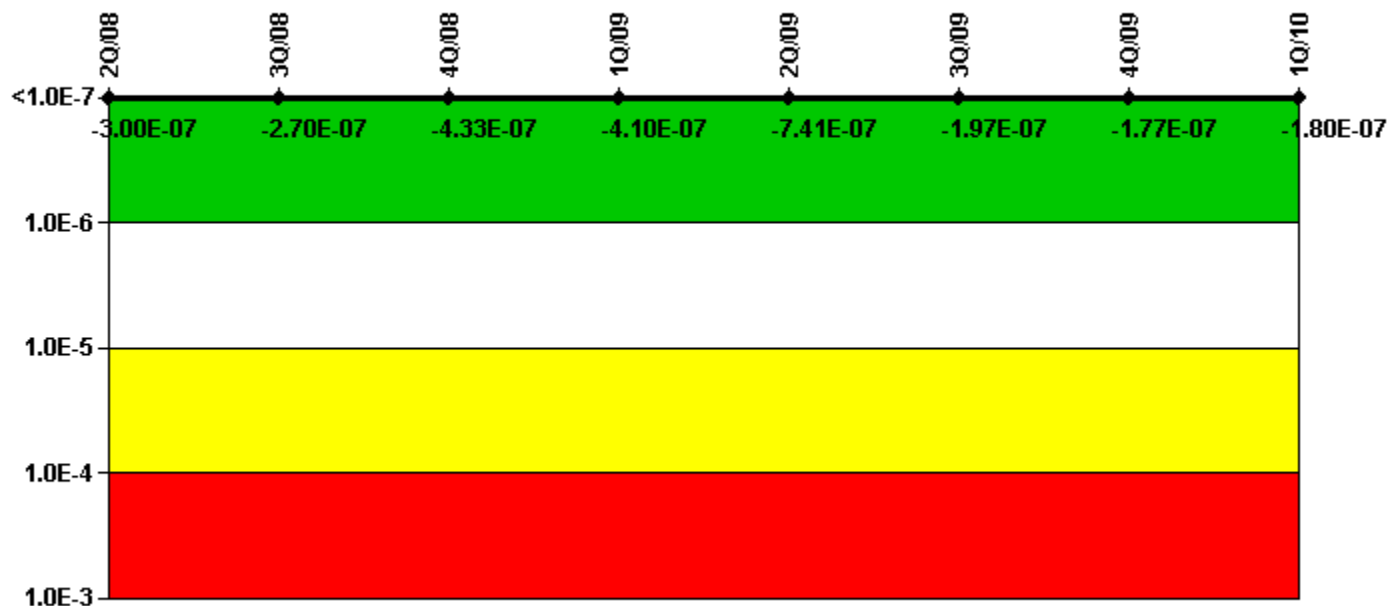
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



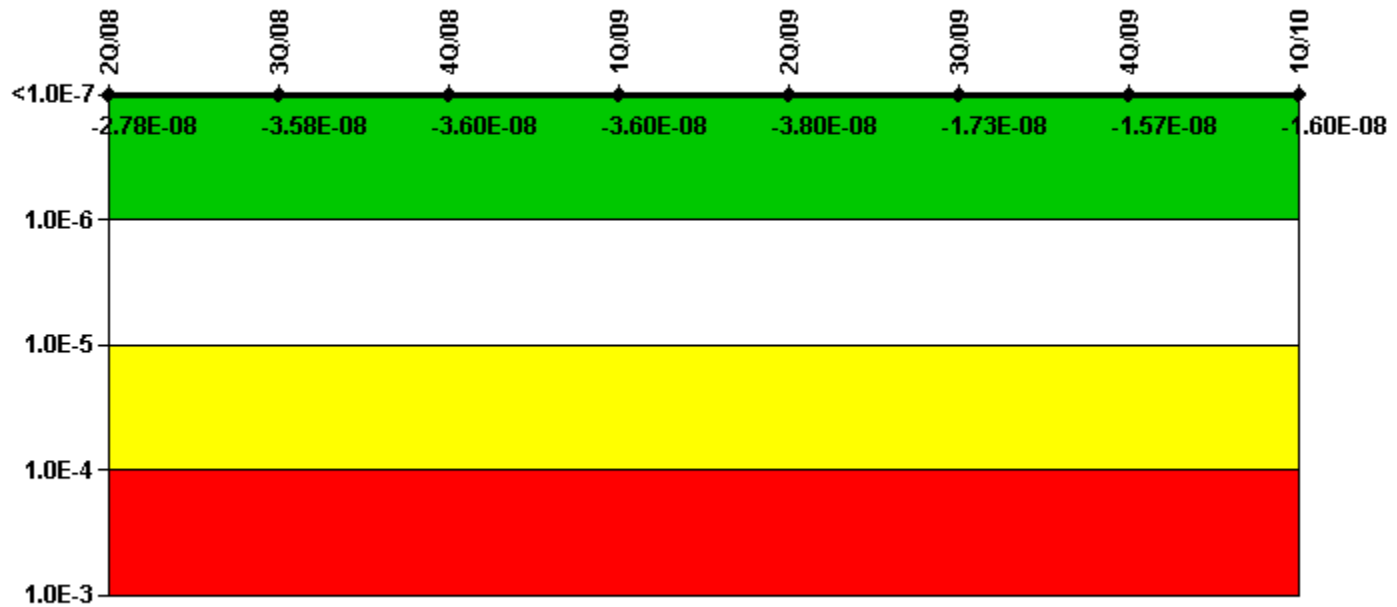
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	1.50E-07	1.80E-07	1.70E-08	4.00E-08	4.90E-08	3.40E-09	3.30E-09	3.29E-09
URI (ΔCDF)	-4.50E-07	-4.50E-07	-4.50E-07	-4.50E-07	-7.90E-07	-2.00E-07	-1.80E-07	-1.82E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.00E-07	-2.70E-07	-4.33E-07	-4.10E-07	-7.41E-07	-1.97E-07	-1.77E-07	-1.80E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



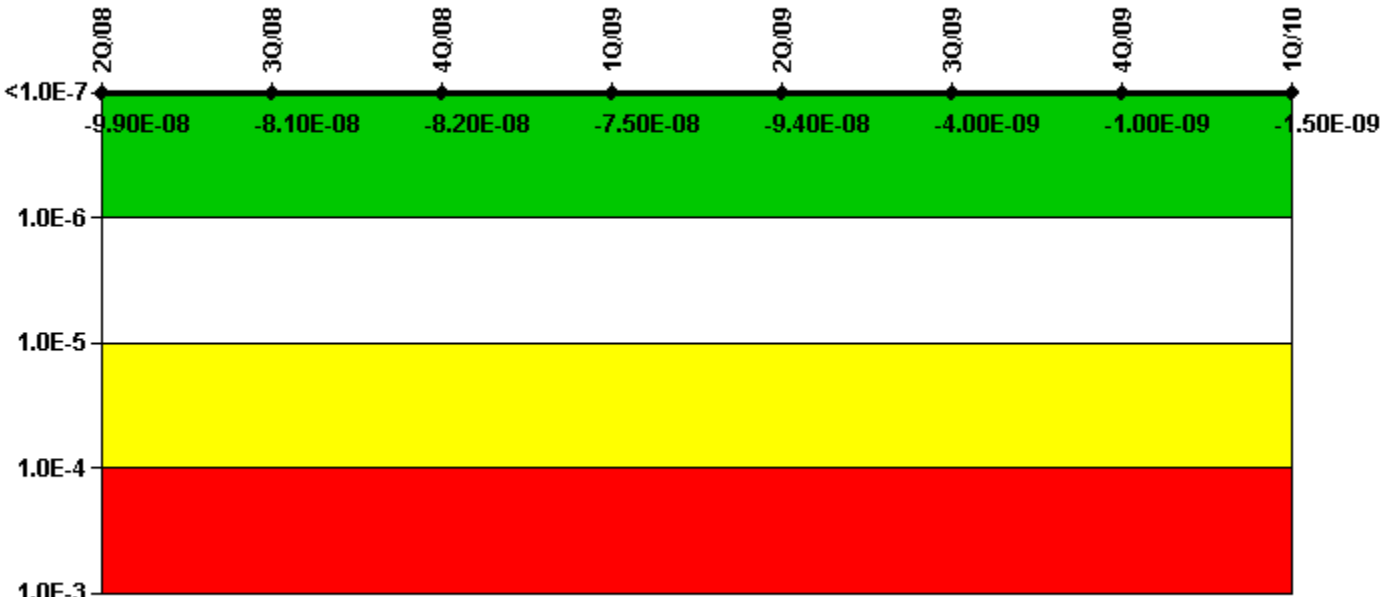
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-1.80E-09	-1.80E-09	-2.00E-09	-2.00E-09	-2.00E-09	-1.30E-09	-7.40E-10	-8.32E-10
URI (Δ CDF)	-2.60E-08	-3.40E-08	-3.40E-08	-3.40E-08	-3.60E-08	-1.60E-08	-1.50E-08	-1.48E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.78E-08	-3.58E-08	-3.60E-08	-3.60E-08	-3.80E-08	-1.73E-08	-1.57E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



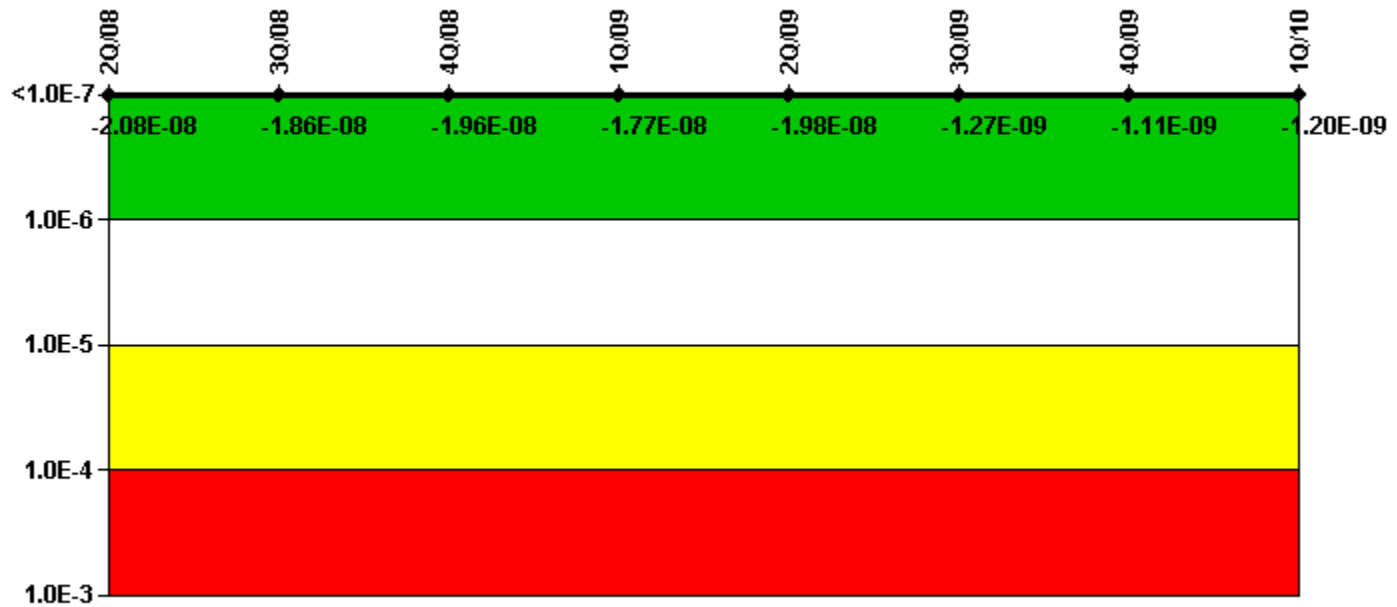
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	2.10E-08	3.90E-08	3.80E-08	4.50E-08	2.60E-08	1.40E-08	1.40E-08	1.37E-08
URI (ΔCDF)	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.80E-08	-1.50E-08	-1.53E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.90E-08	-8.10E-08	-8.20E-08	-7.50E-08	-9.40E-08	-4.00E-09	-1.00E-09	-1.50E-09

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



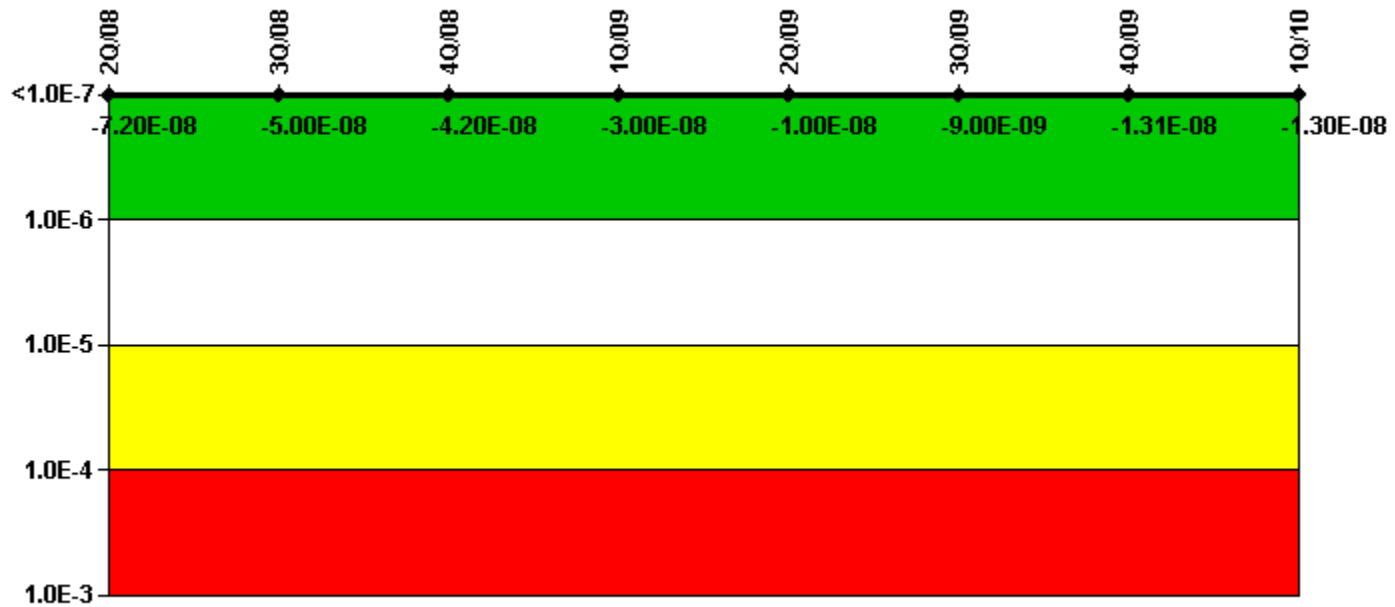
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-4.80E-09	-2.60E-09	-4.60E-09	-2.70E-09	-2.80E-09	-1.70E-10	-1.70E-10	-2.70E-10
URI (Δ CDF)	-1.60E-08	-1.60E-08	-1.50E-08	-1.50E-08	-1.70E-08	-1.10E-09	-9.40E-10	-9.10E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.08E-08	-1.86E-08	-1.96E-08	-1.77E-08	-1.98E-08	-1.27E-09	-1.11E-09	-1.20E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



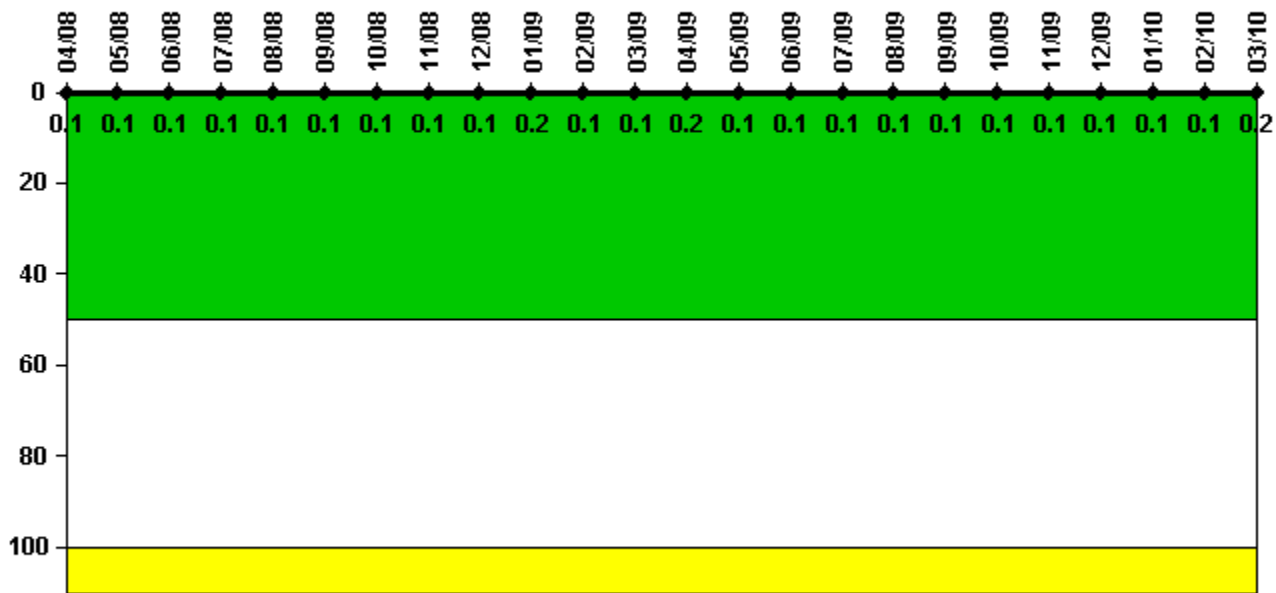
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	7.80E-08	1.00E-07	9.80E-08	1.20E-07	1.40E-07	1.10E-08	6.90E-09	6.88E-09
URI (ΔCDF)	-1.50E-07	-1.50E-07	-1.40E-07	-1.50E-07	-1.50E-07	-2.00E-08	-2.00E-08	-1.98E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.20E-08	-5.00E-08	-4.20E-08	-3.00E-08	-1.00E-08	-9.00E-09	-1.31E-08	-1.30E-08

Licensee Comments: none

Reactor Coolant System Activity



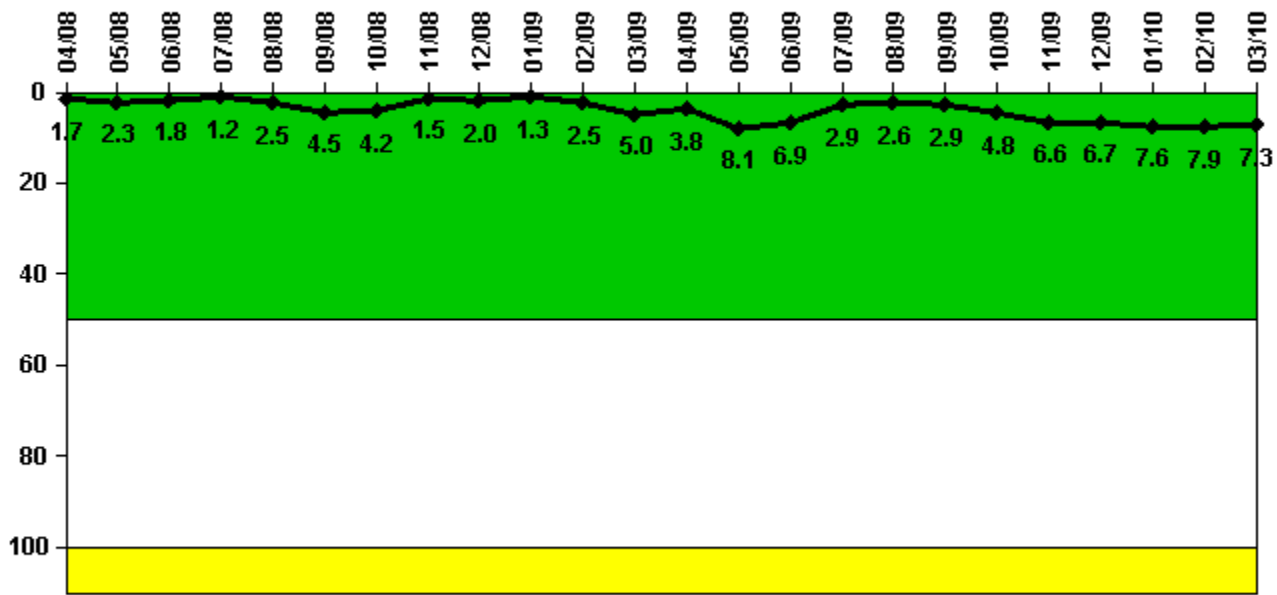
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum activity	0.000905	0.001270	0.001210	0.001070	0.001030	0.001100	0.001140	0.001310	0.001410	0.001580	0.001420	0.001480
Technical specification limit	1.0	1.0	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	0.2	0.1	0.1
Reactor Coolant System Activity	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum activity	0.001630	0.000819	0.000665	0.000750	0.000796	0.000851	0.000981	0.000996	0.001130	0.001250	0.001270	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	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2

Licensee Comments: none

Reactor Coolant System Leakage



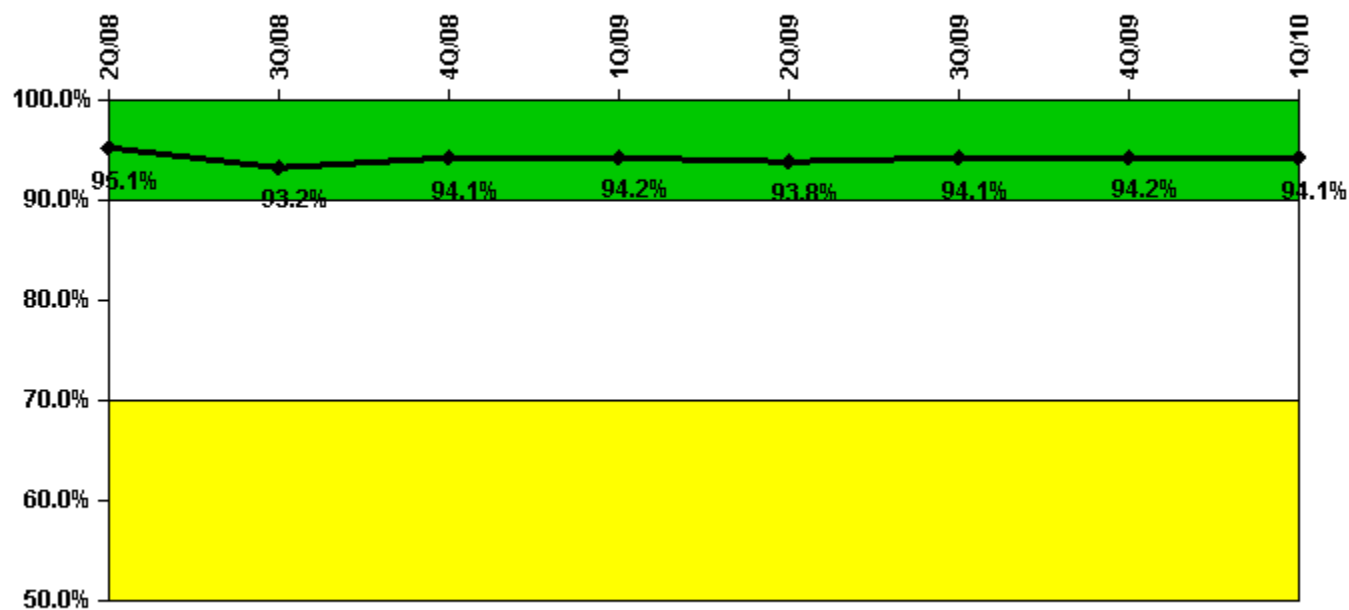
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum leakage	0.170	0.230	0.180	0.120	0.250	0.450	0.420	0.150	0.200	0.130	0.250	0.500
Technical specification limit	10.0	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	2.3	1.8	1.2	2.5	4.5	4.2	1.5	2.0	1.3	2.5	5.0
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	0.380	0.810	0.690	0.290	0.260	0.290	0.480	0.660	0.670	0.760	0.790	0.730
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.8	8.1	6.9	2.9	2.6	2.9	4.8	6.6	6.7	7.6	7.9	7.3

Licensee Comments: none

Drill/Exercise Performance



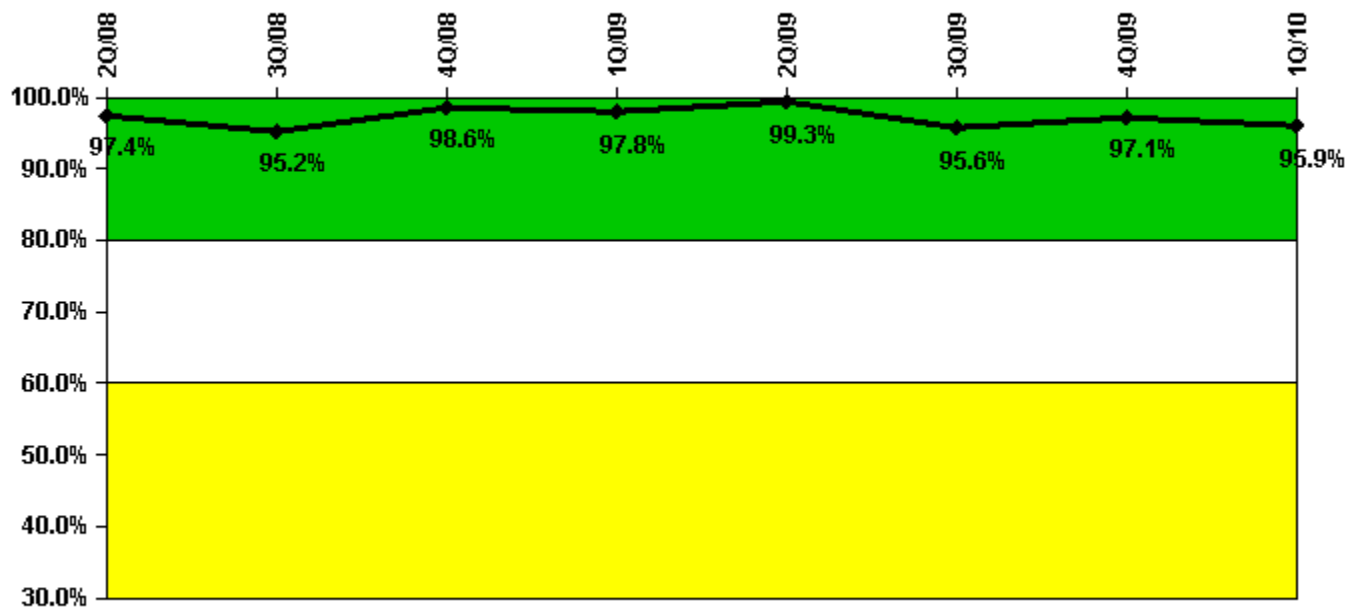
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful opportunities	41.0	37.0	20.0	36.0	36.0	20.0	26.0	38.0
Total opportunities	42.0	43.0	21.0	38.0	39.0	21.0	26.0	40.0
Indicator value	95.1%	93.2%	94.1%	94.2%	93.8%	94.1%	94.2%	94.1%

Licensee Comments: none

ERO Drill Participation



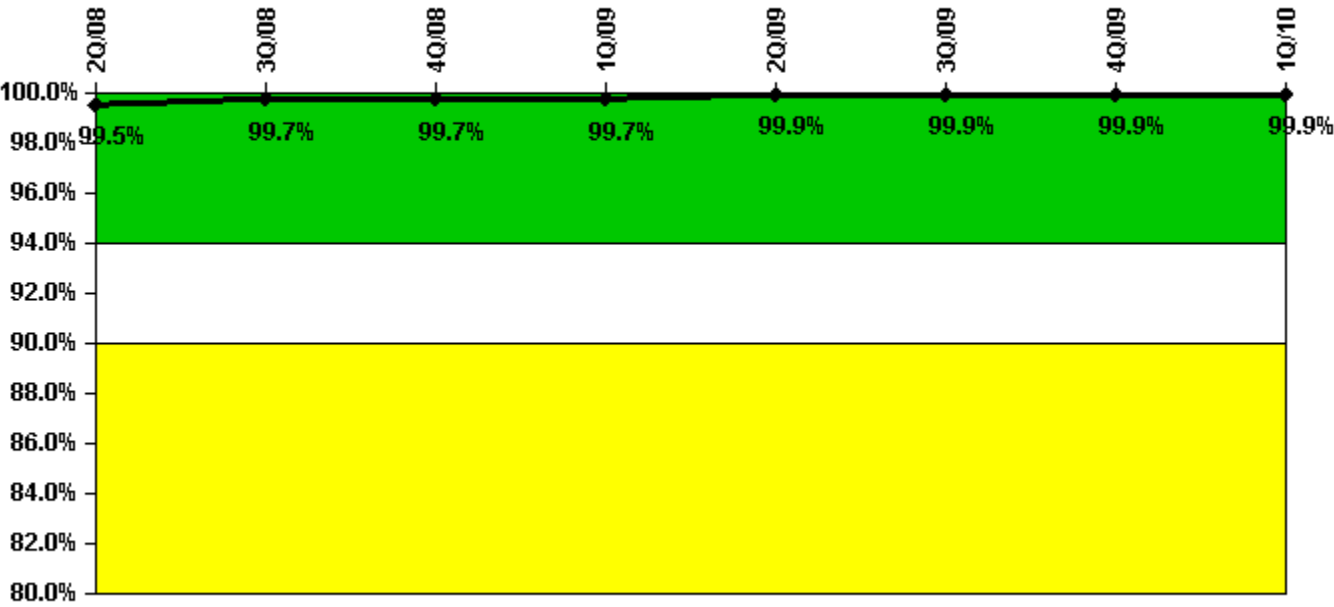
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Participating Key personnel	149.0	138.0	144.0	133.0	136.0	130.0	135.0	142.0
Total Key personnel	153.0	145.0	146.0	136.0	137.0	136.0	139.0	148.0
Indicator value	97.4%	95.2%	98.6%	97.8%	99.3%	95.6%	97.1%	95.9%

Licensee Comments: none

Alert & Notification System



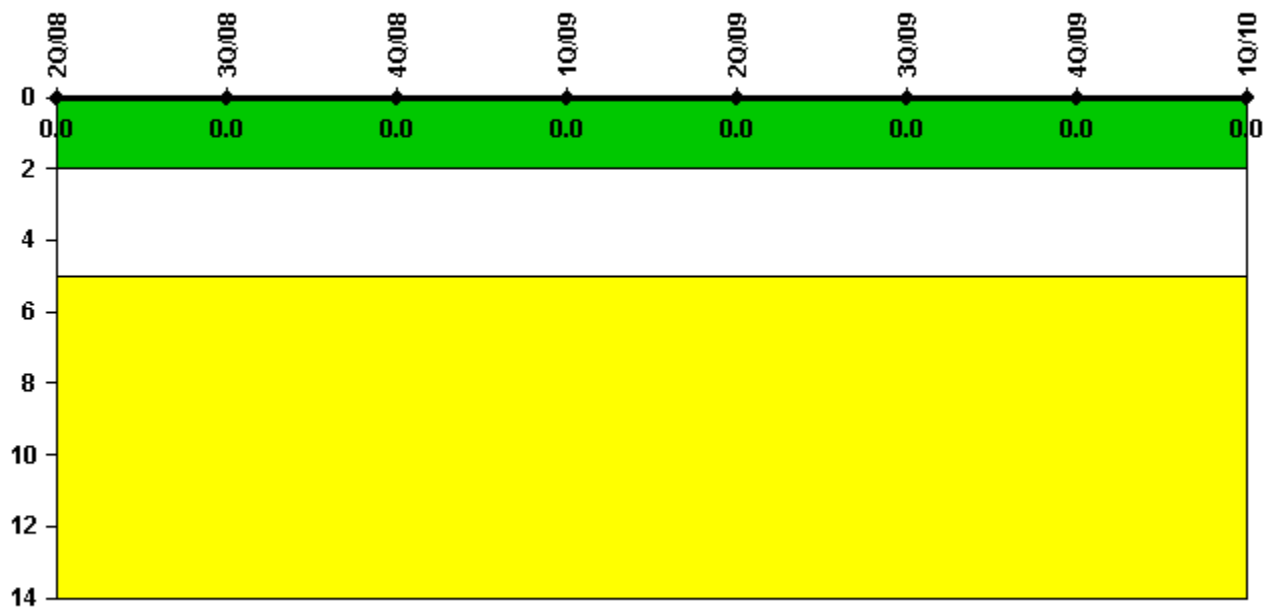
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful siren-tests	472	475	544	476	475	543	544	476
Total sirens-tests	476	476	544	476	476	544	544	476
Indicator value	99.5%	99.7%	99.7%	99.7%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



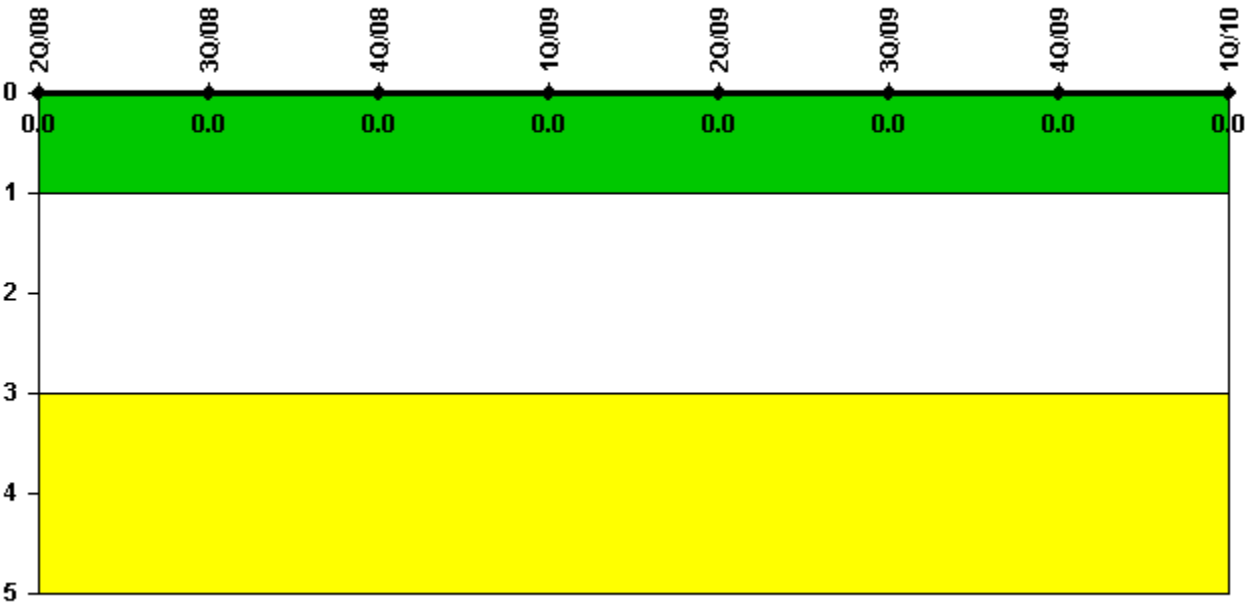
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/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

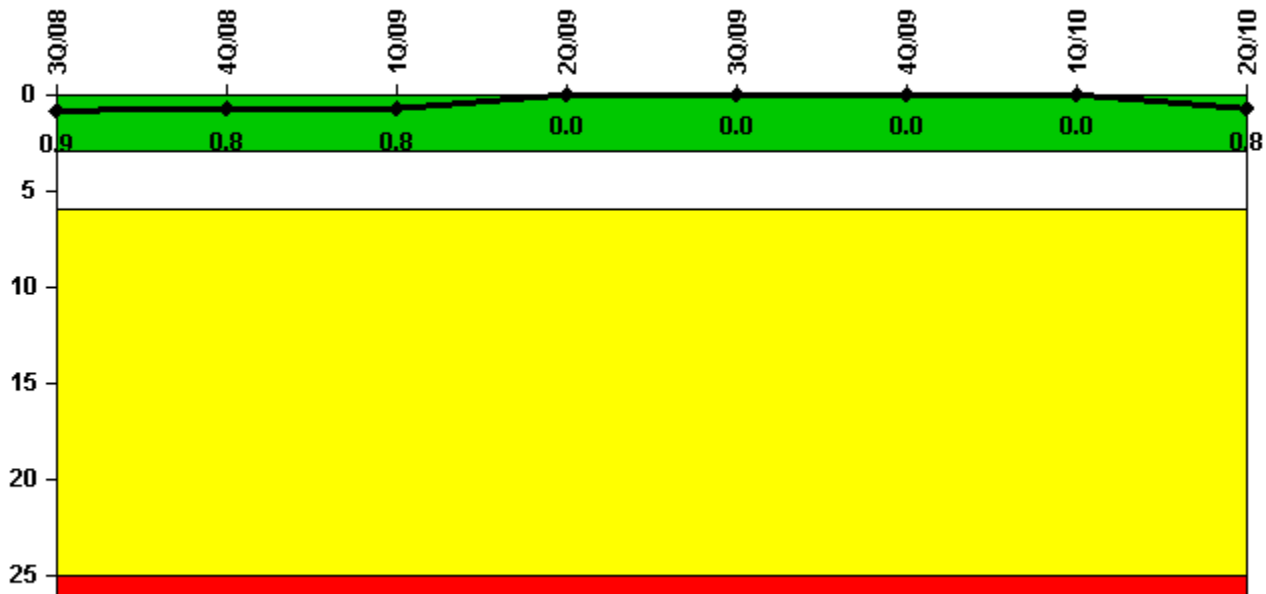
[Security](#) information not publicly available.

Surry 1

2Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

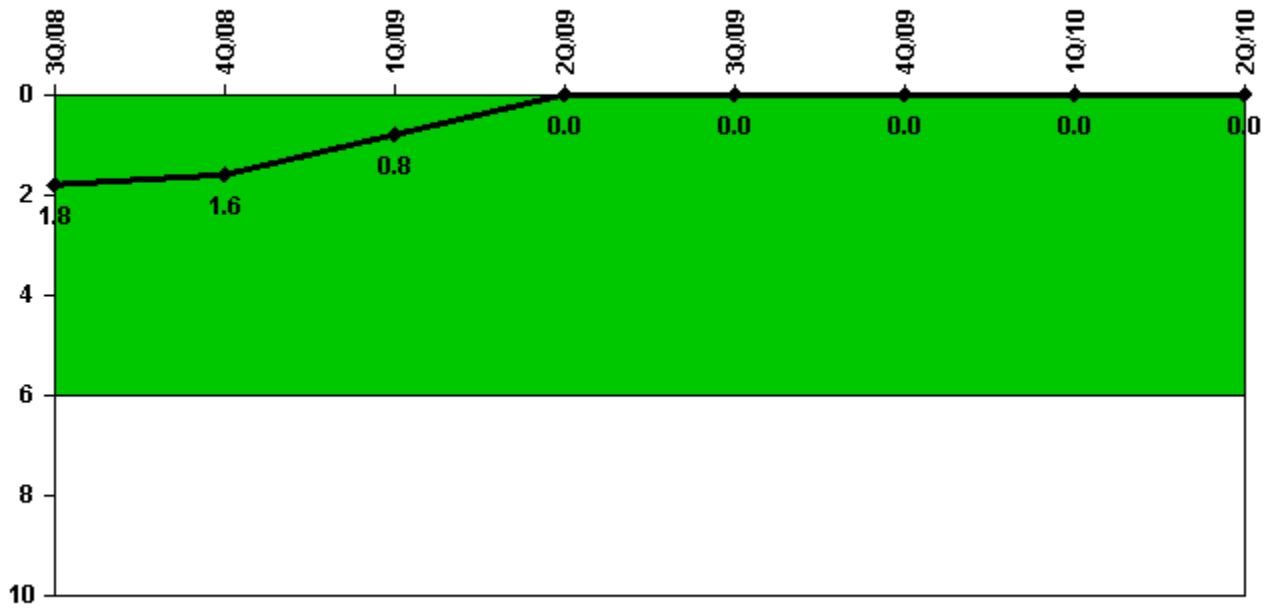
Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	2208.0	2118.0	2159.0	1655.9	2208.0	2209.0	2159.0	2107.0
Indicator value	0.9	0.8	0.8	0	0	0	0	0.8

Licensee Comments:

2Q/10: Unit 1 trip on June 8, 2010 due to loss of Vital bus. See LER 50-280/2010-003-00

Unplanned Power Changes per 7000 Critical Hrs



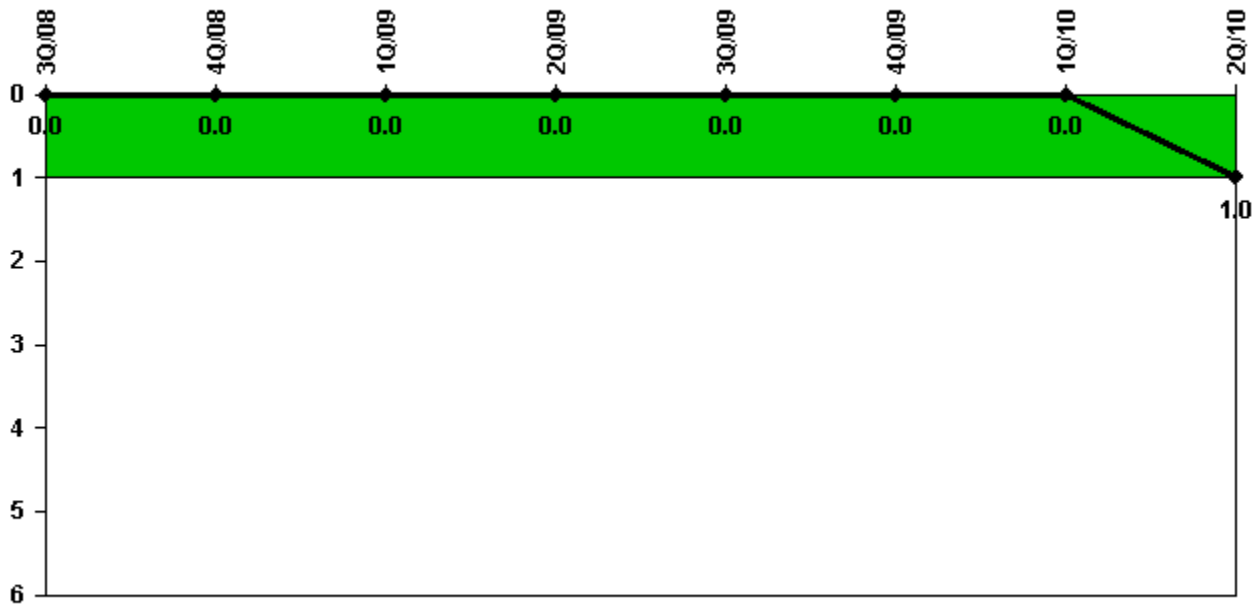
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2118.0	2159.0	1655.9	2208.0	2209.0	2159.0	2107.0
Indicator value	1.8	1.6	0.8	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

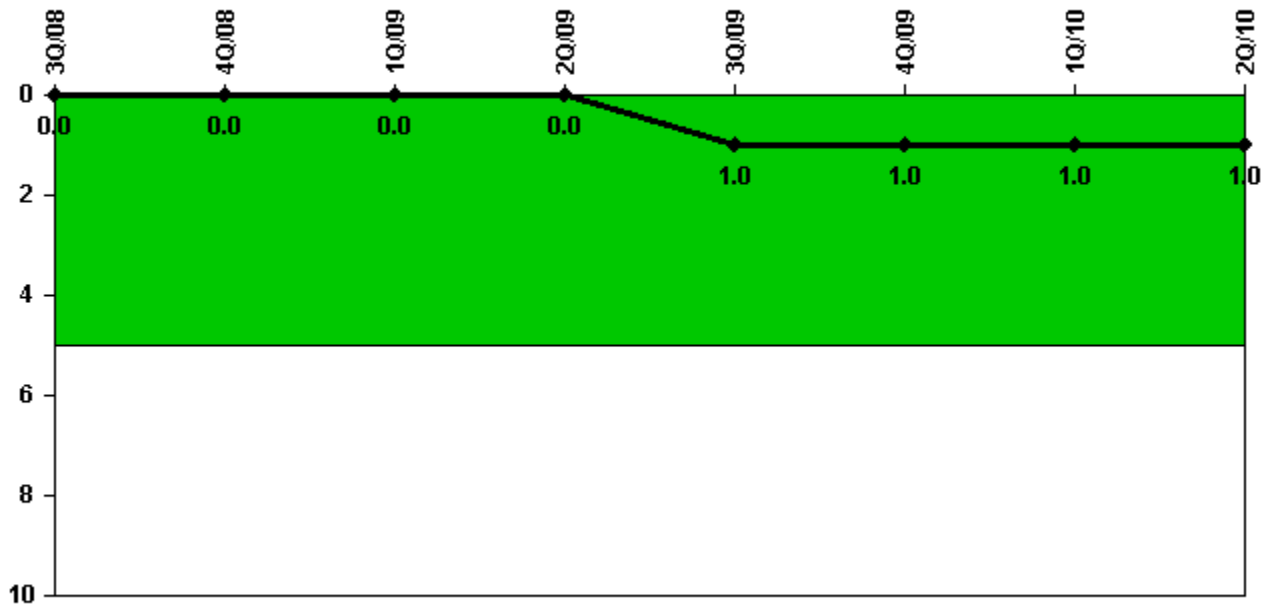
Notes

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

Licensee Comments:

2Q/10: Unit 1 trip on June 8, 2010 due to loss of Vital bus. See LER 50-280/2010-003-00

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	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



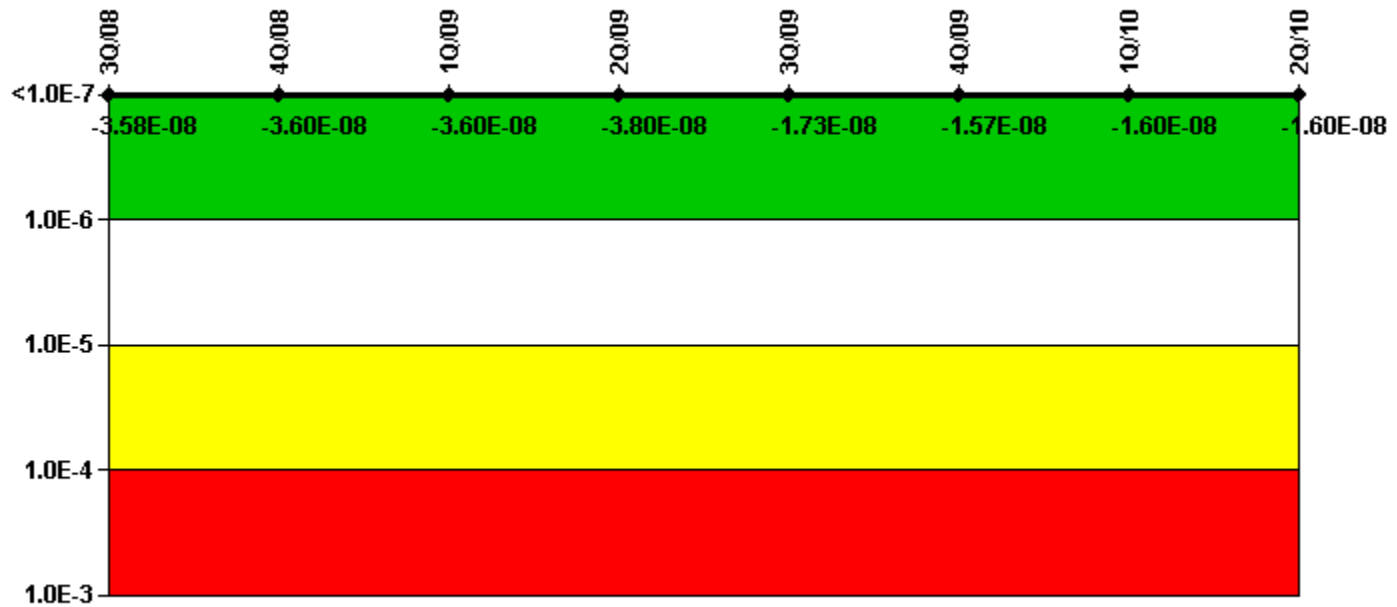
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	1.80E-07	1.70E-08	4.00E-08	4.90E-08	3.40E-09	3.30E-09	3.29E-09	3.39E-10
URI (ΔCDF)	-4.50E-07	-4.50E-07	-4.50E-07	-7.90E-07	-2.00E-07	-1.80E-07	-1.82E-07	-1.89E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.70E-07	-4.33E-07	-4.10E-07	-7.41E-07	-1.97E-07	-1.77E-07	-1.80E-07	-1.90E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



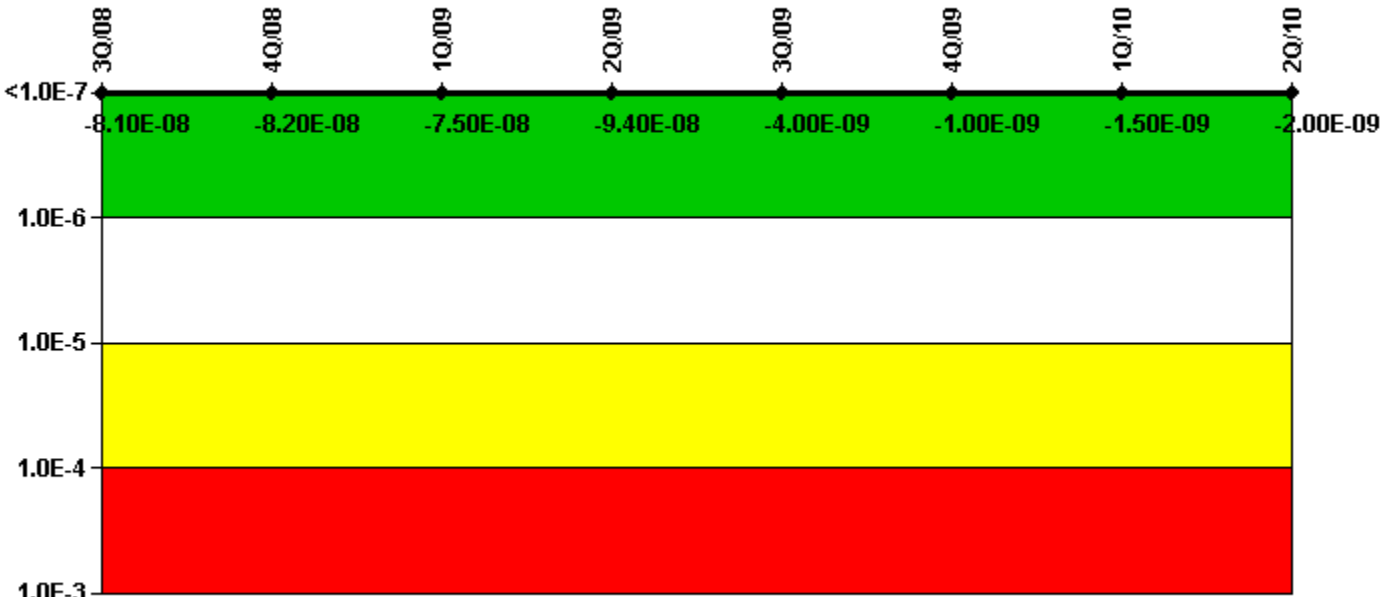
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	-1.80E-09	-2.00E-09	-2.00E-09	-2.00E-09	-1.30E-09	-7.40E-10	-8.32E-10	-8.32E-10
URI (Δ CDF)	-3.40E-08	-3.40E-08	-3.40E-08	-3.60E-08	-1.60E-08	-1.50E-08	-1.48E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.58E-08	-3.60E-08	-3.60E-08	-3.80E-08	-1.73E-08	-1.57E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



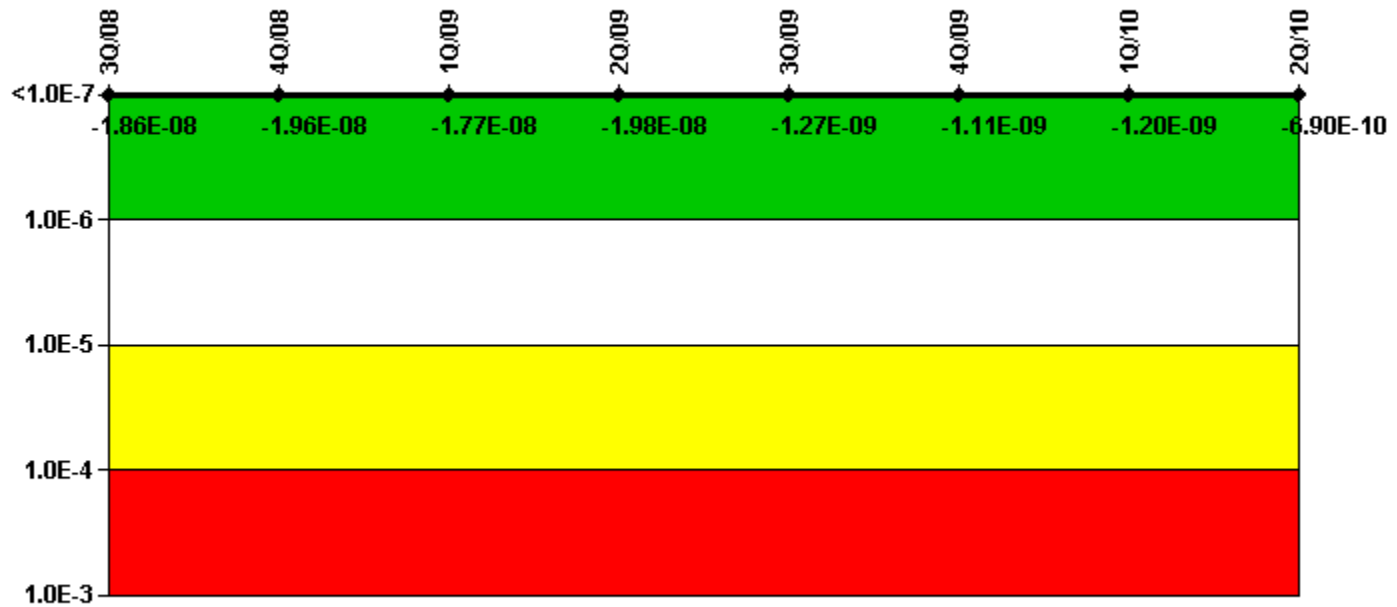
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	3.90E-08	3.80E-08	4.50E-08	2.60E-08	1.40E-08	1.40E-08	1.37E-08	1.45E-08
URI (ΔCDF)	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.80E-08	-1.50E-08	-1.53E-08	-1.65E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.10E-08	-8.20E-08	-7.50E-08	-9.40E-08	-4.00E-09	-1.00E-09	-1.50E-09	-2.00E-09

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



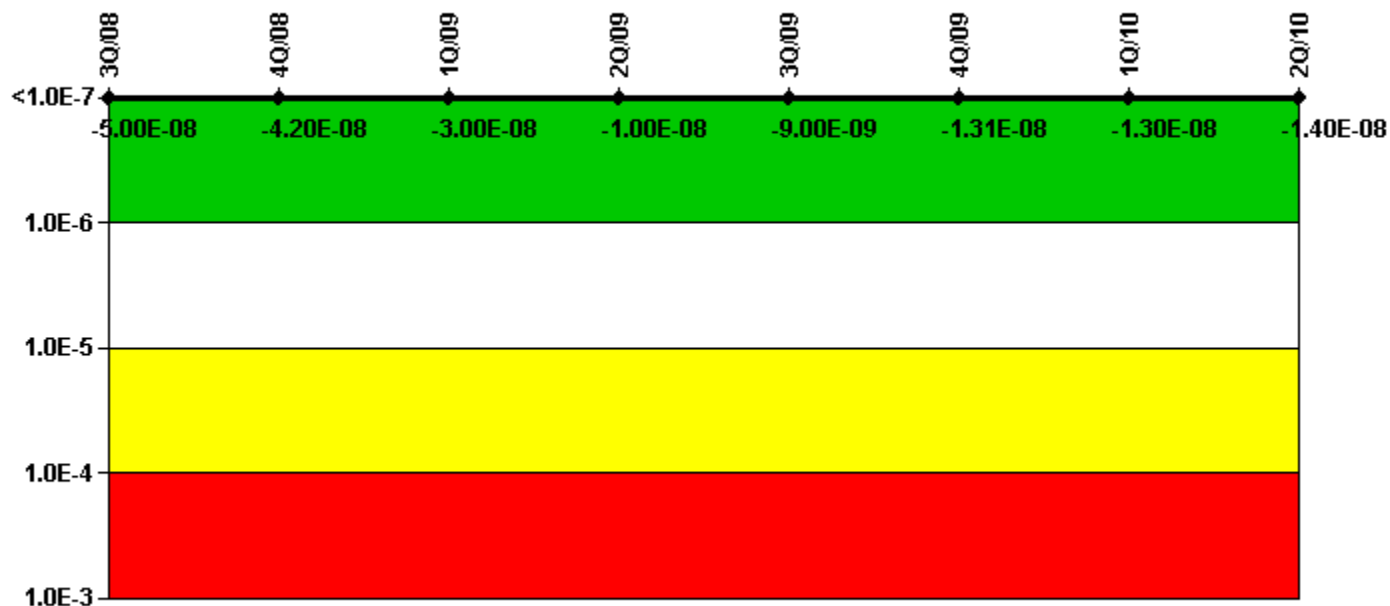
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	-2.60E-09	-4.60E-09	-2.70E-09	-2.80E-09	-1.70E-10	-1.70E-10	-2.70E-10	2.71E-10
URI (Δ CDF)	-1.60E-08	-1.50E-08	-1.50E-08	-1.70E-08	-1.10E-09	-9.40E-10	-9.10E-10	-9.57E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.86E-08	-1.96E-08	-1.77E-08	-1.98E-08	-1.27E-09	-1.11E-09	-1.20E-09	-6.90E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



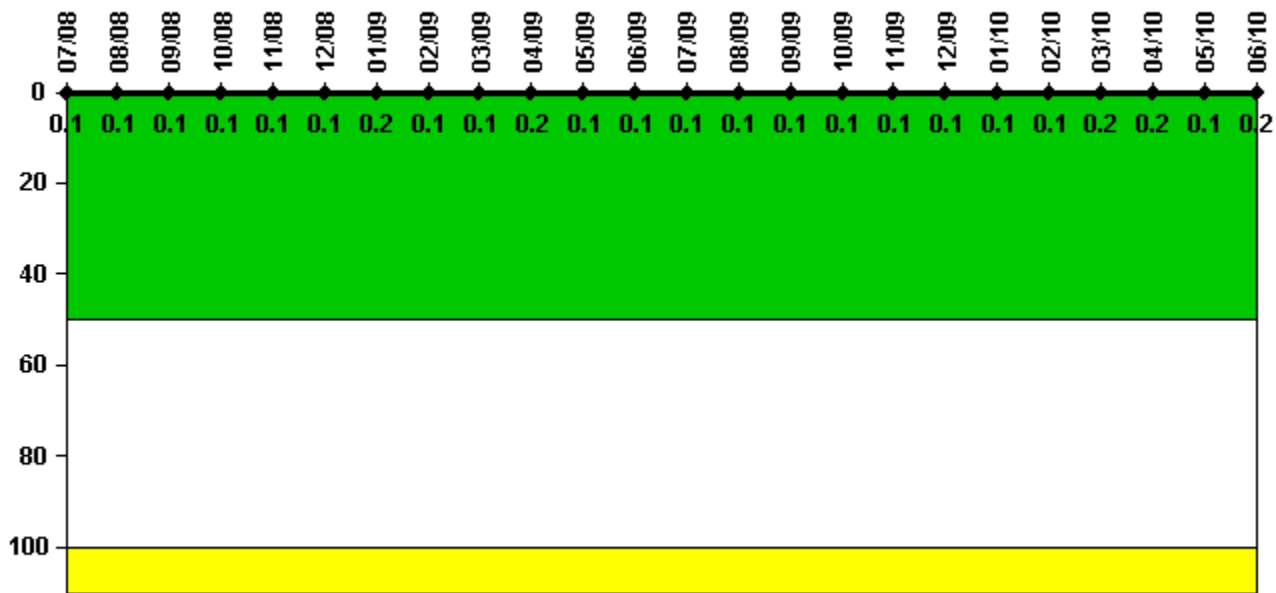
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.00E-07	9.80E-08	1.20E-07	1.40E-07	1.10E-08	6.90E-09	6.88E-09	6.40E-09
URI (ΔCDF)	-1.50E-07	-1.40E-07	-1.50E-07	-1.50E-07	-2.00E-08	-2.00E-08	-1.98E-08	-2.01E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.00E-08	-4.20E-08	-3.00E-08	-1.00E-08	-9.00E-09	-1.31E-08	-1.30E-08	-1.40E-08

Licensee Comments: none

Reactor Coolant System Activity



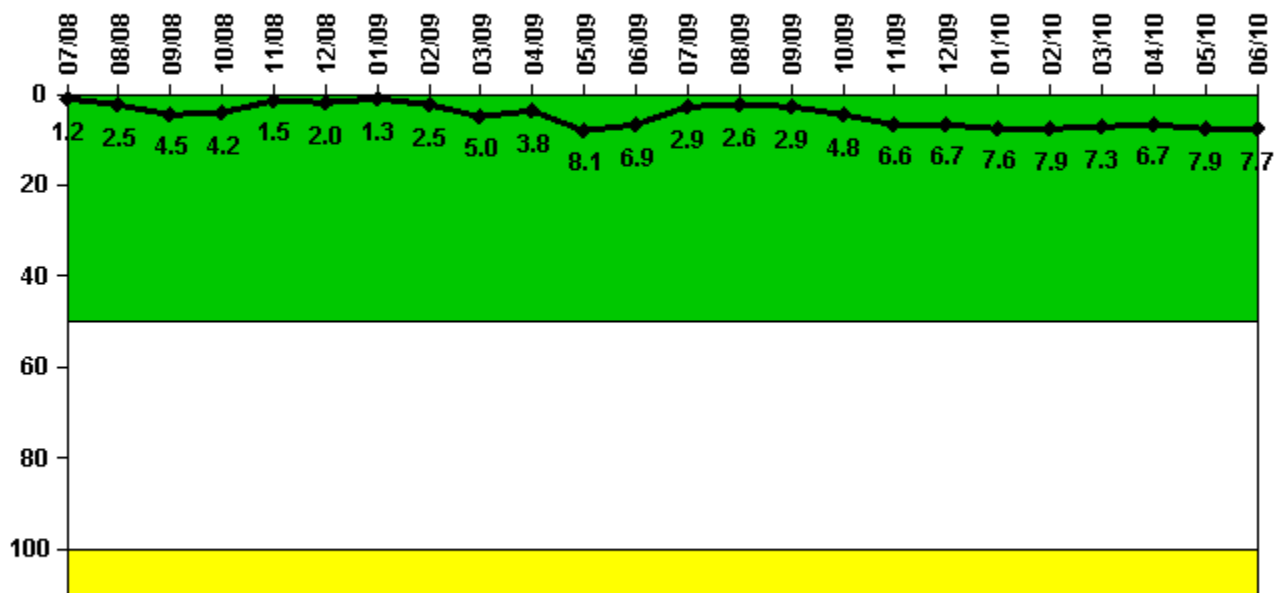
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum activity	0.001070	0.001030	0.001100	0.001140	0.001310	0.001410	0.001580	0.001420	0.001480	0.001630	0.000819	0.000665
Technical specification limit	1.0	1.0	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	0.2	0.1	0.1	0.2	0.1	0.1
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	0.000750	0.000796	0.000851	0.000981	0.000996	0.001130	0.001250	0.001270	0.001720	0.001550	0.001370	0.001510
Technical specification limit	1.0	1.0	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	0.1	0.2

Licensee Comments: none

Reactor Coolant System Leakage



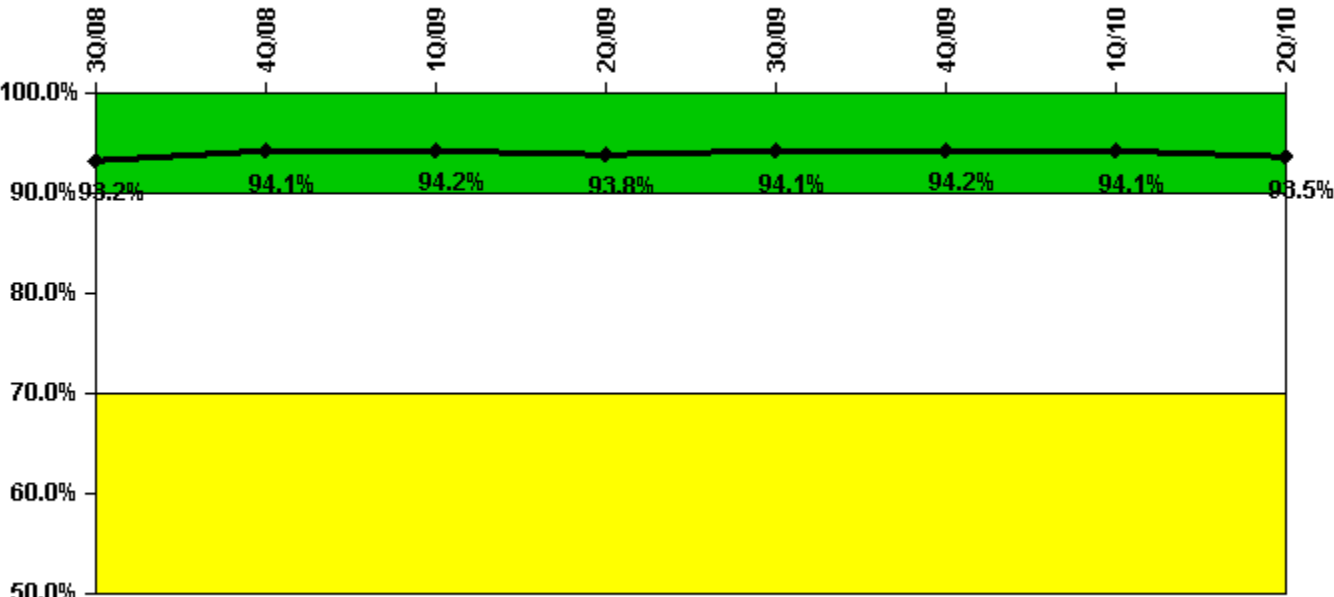
Thresholds: White > 50.0 Yellow > 100.0

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	0.120	0.250	0.450	0.420	0.150	0.200	0.130	0.250	0.500	0.380	0.810	0.690
Technical specification limit	10.0	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	2.5	4.5	4.2	1.5	2.0	1.3	2.5	5.0	3.8	8.1	6.9
Reactor Coolant System Leakage	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum leakage	0.290	0.260	0.290	0.480	0.660	0.670	0.760	0.790	0.730	0.670	0.790	0.770
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.9	2.6	2.9	4.8	6.6	6.7	7.6	7.9	7.3	6.7	7.9	7.7

Licensee Comments: none

Drill/Exercise Performance



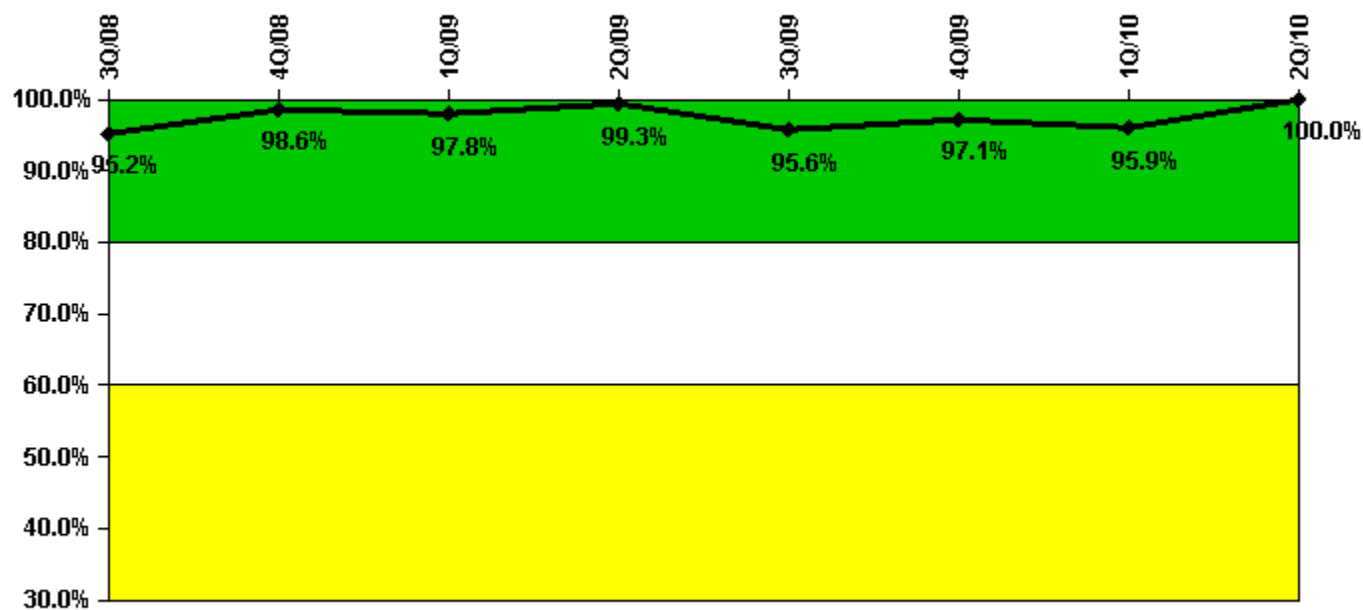
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful opportunities	37.0	20.0	36.0	36.0	20.0	26.0	38.0	33.0
Total opportunities	43.0	21.0	38.0	39.0	21.0	26.0	40.0	35.0
Indicator value	93.2%	94.1%	94.2%	93.8%	94.1%	94.2%	94.1%	93.5%

Licensee Comments: none

ERO Drill Participation



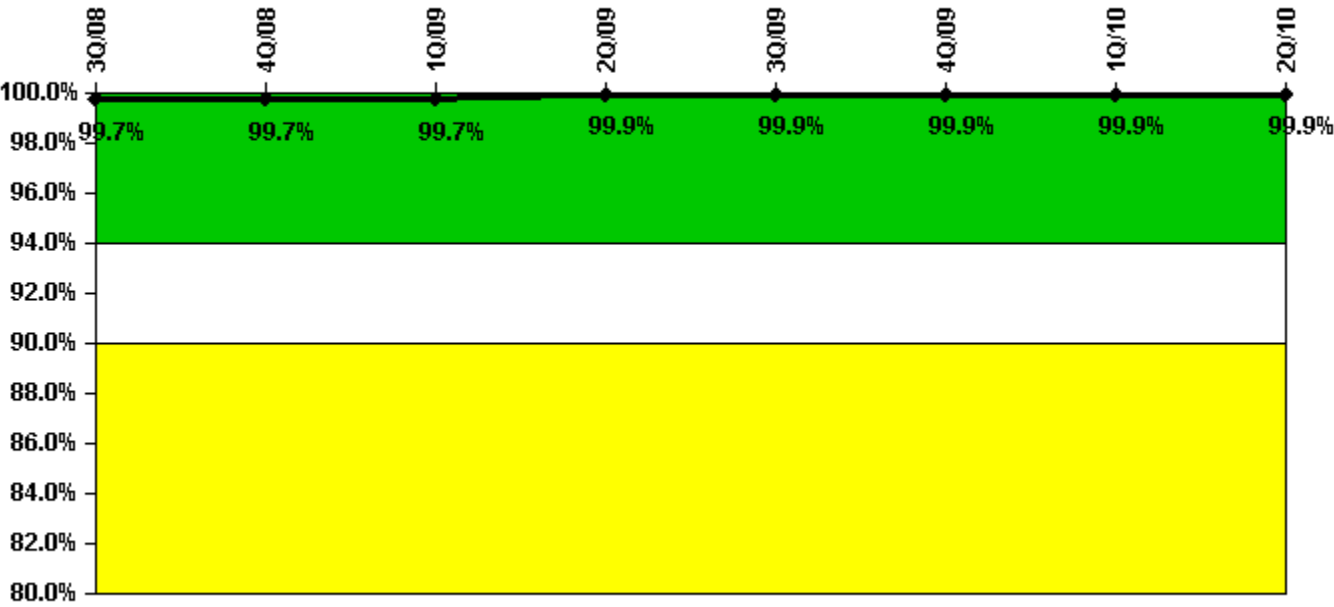
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Participating Key personnel	138.0	144.0	133.0	136.0	130.0	135.0	142.0	145.0
Total Key personnel	145.0	146.0	136.0	137.0	136.0	139.0	148.0	145.0
Indicator value	95.2%	98.6%	97.8%	99.3%	95.6%	97.1%	95.9%	100.0%

Licensee Comments: none

Alert & Notification System



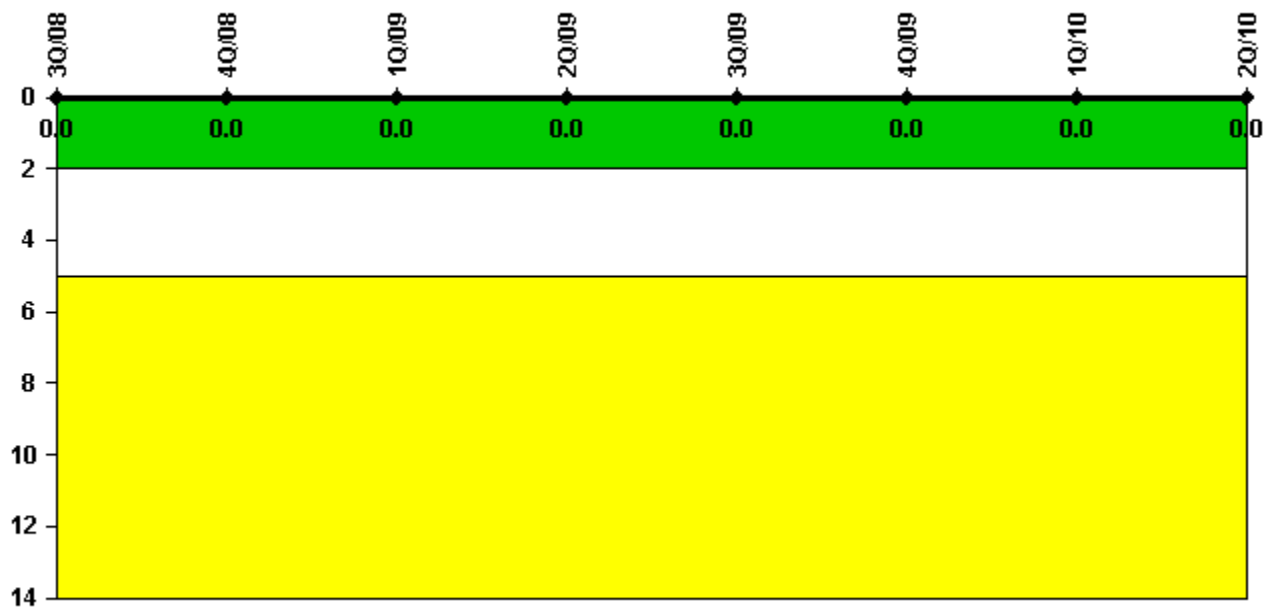
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful siren-tests	475	544	476	475	543	544	476	542
Total sirens-tests	476	544	476	476	544	544	476	544
Indicator value	99.7%	99.7%	99.7%	99.9%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



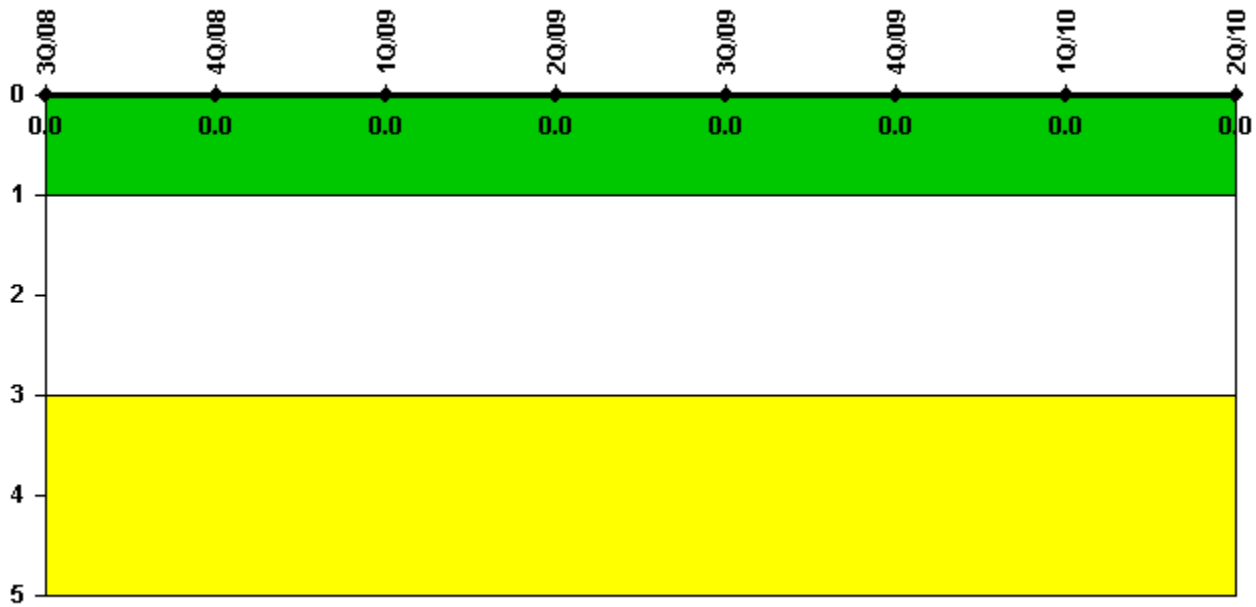
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/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

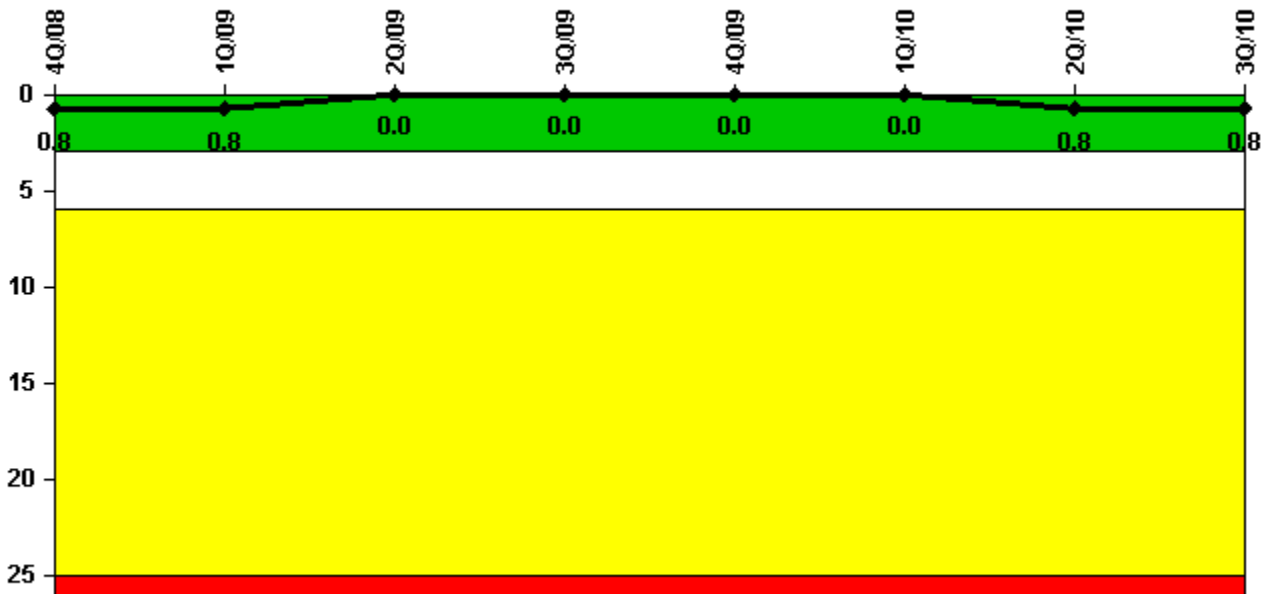
[Security](#) information not publicly available.

Surry 1

3Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



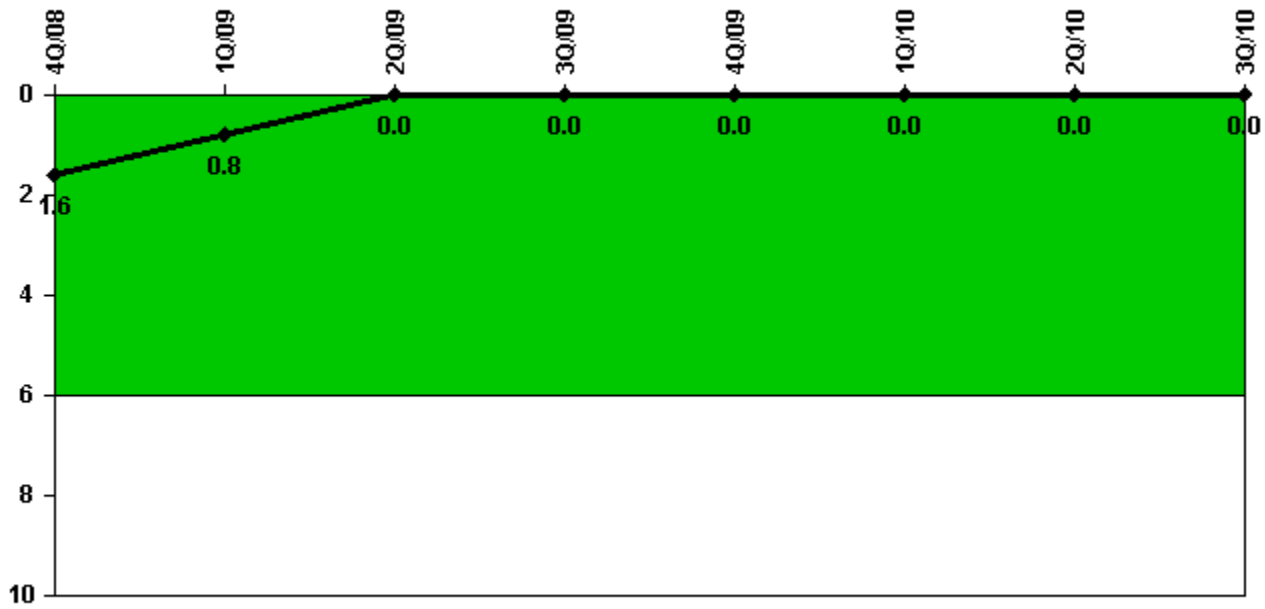
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2118.0	2159.0	1655.9	2208.0	2209.0	2159.0	2107.0	2208.0
Indicator value	0.8	0.8	0	0	0	0	0.8	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



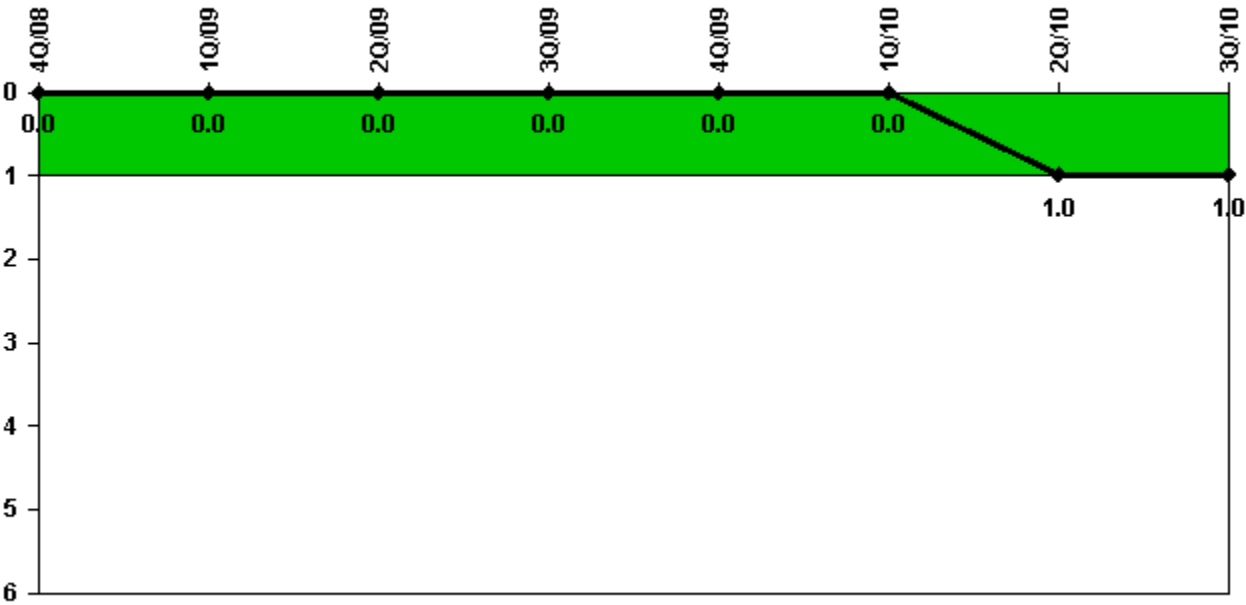
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2118.0	2159.0	1655.9	2208.0	2209.0	2159.0	2107.0	2208.0
Indicator value	1.6	0.8	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



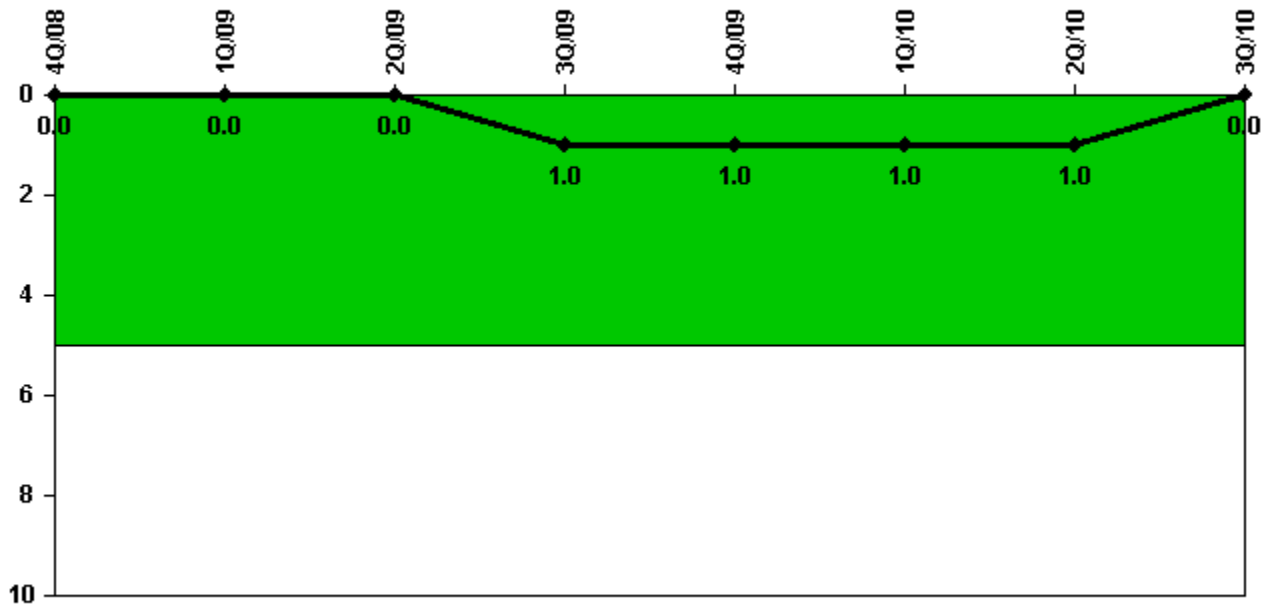
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
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



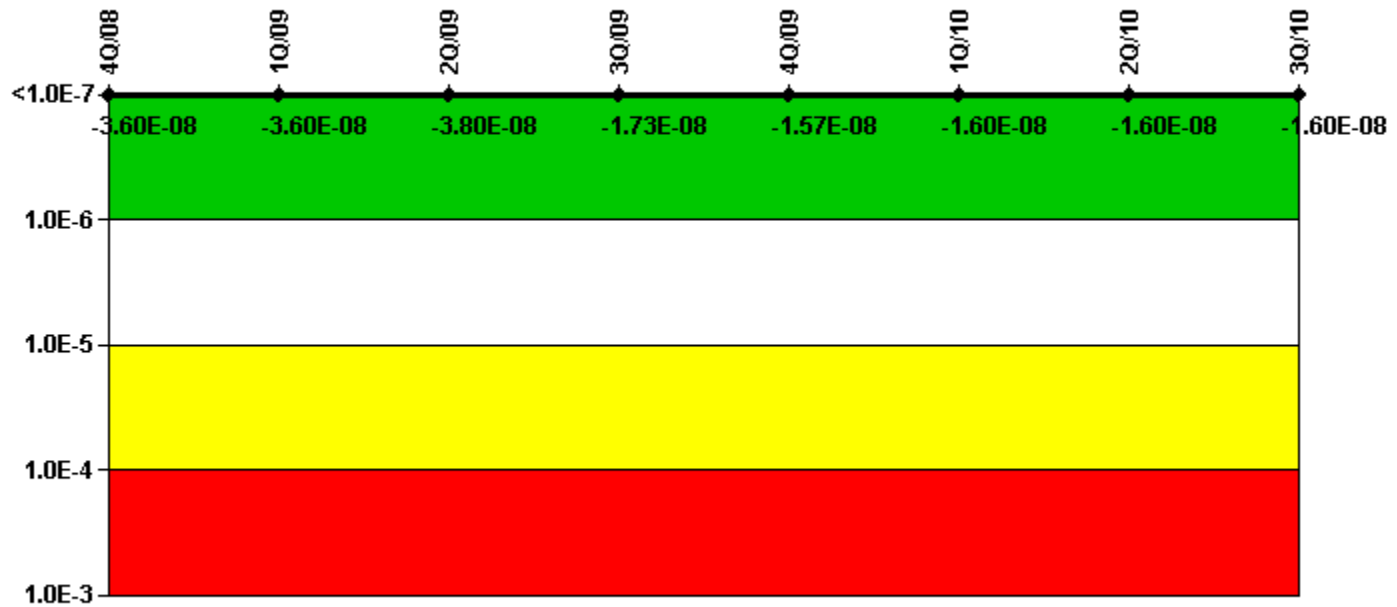
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	1.70E-08	4.00E-08	4.90E-08	3.40E-09	3.30E-09	3.29E-09	3.39E-10	3.39E-10
URI (ΔCDF)	-4.50E-07	-4.50E-07	-7.90E-07	-2.00E-07	-1.80E-07	-1.82E-07	-1.89E-07	-1.87E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.33E-07	-4.10E-07	-7.41E-07	-1.97E-07	-1.77E-07	-1.80E-07	-1.90E-07	-1.90E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



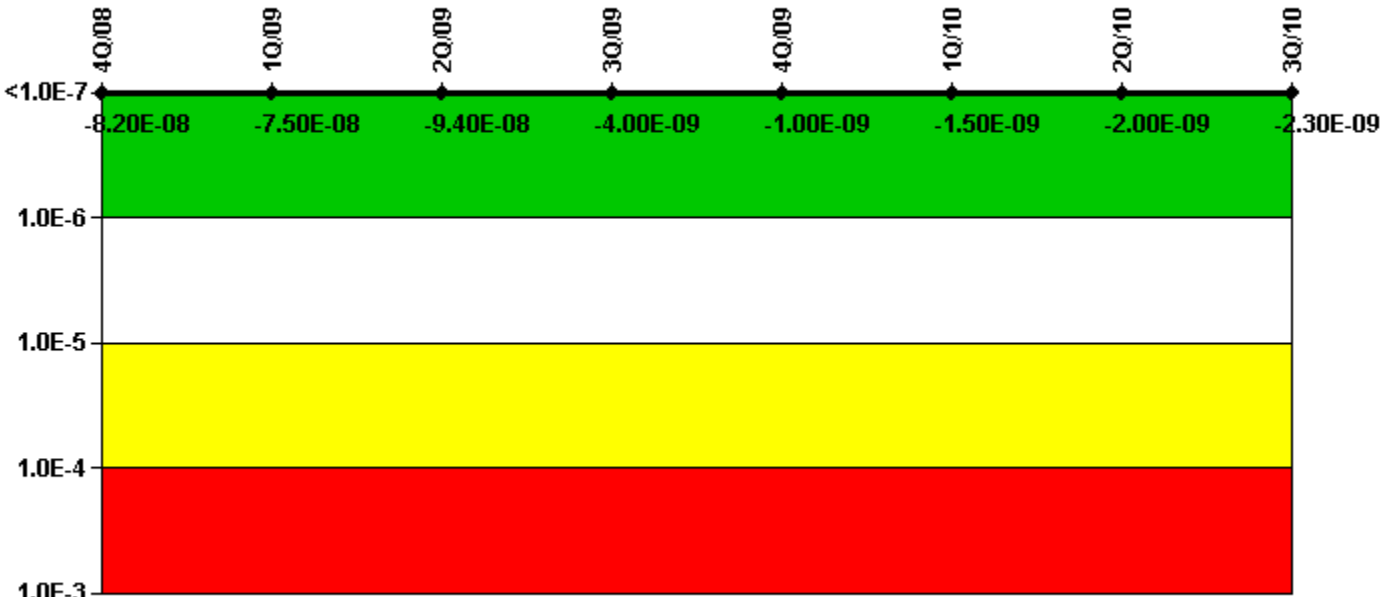
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	-2.00E-09	-2.00E-09	-2.00E-09	-1.30E-09	-7.40E-10	-8.32E-10	-8.32E-10	-8.32E-10
URI (Δ CDF)	-3.40E-08	-3.40E-08	-3.60E-08	-1.60E-08	-1.50E-08	-1.48E-08	-1.50E-08	-1.52E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.60E-08	-3.60E-08	-3.80E-08	-1.73E-08	-1.57E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



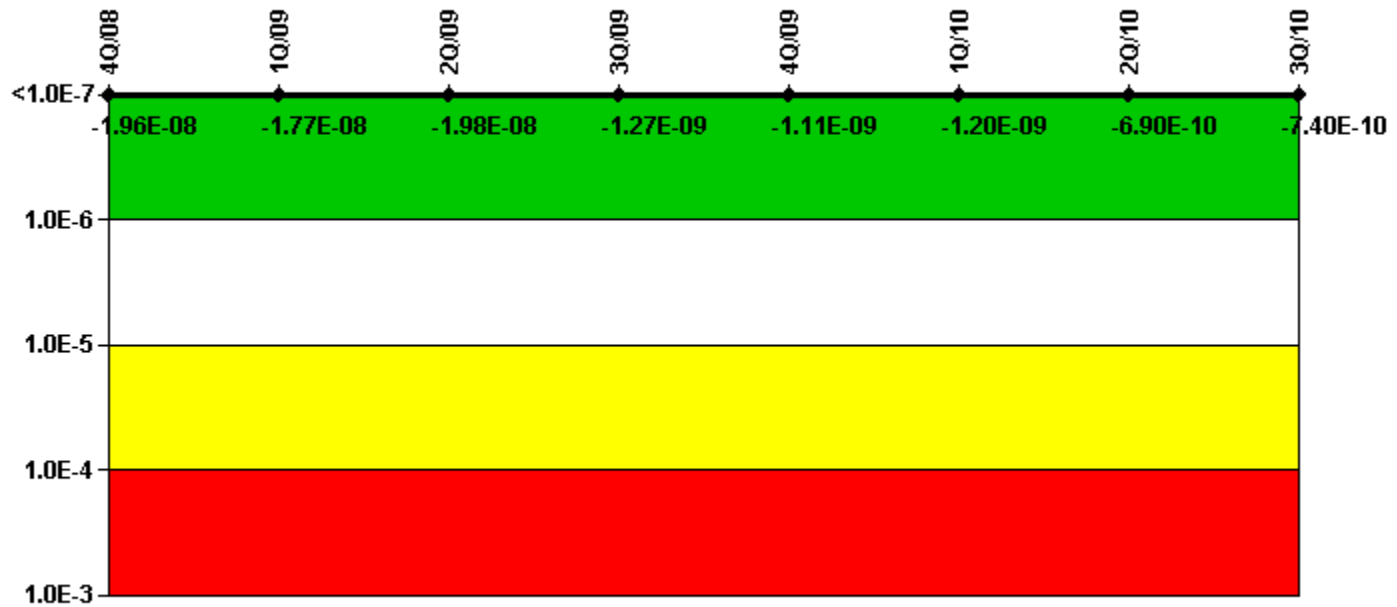
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	3.80E-08	4.50E-08	2.60E-08	1.40E-08	1.40E-08	1.37E-08	1.45E-08	1.36E-08
URI (ΔCDF)	-1.20E-07	-1.20E-07	-1.20E-07	-1.80E-08	-1.50E-08	-1.53E-08	-1.65E-08	-1.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.20E-08	-7.50E-08	-9.40E-08	-4.00E-09	-1.00E-09	-1.50E-09	-2.00E-09	-2.30E-09

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



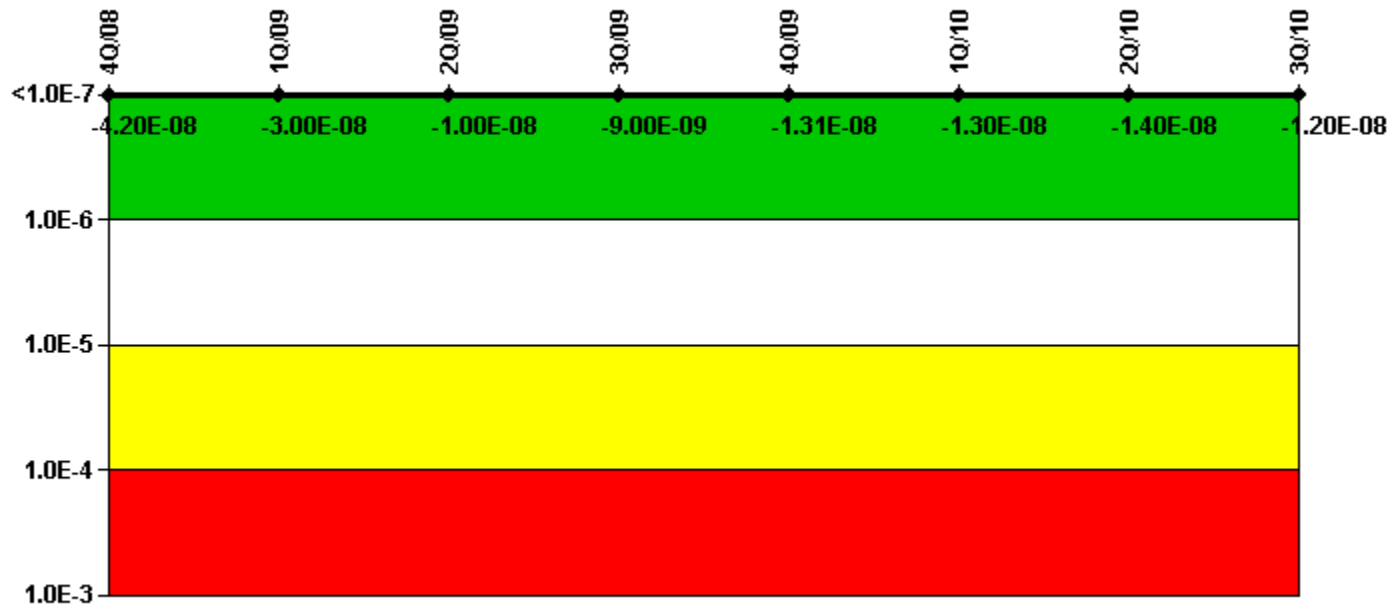
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	-4.60E-09	-2.70E-09	-2.80E-09	-1.70E-10	-1.70E-10	-2.70E-10	2.71E-10	2.14E-10
URI (ΔCDF)	-1.50E-08	-1.50E-08	-1.70E-08	-1.10E-09	-9.40E-10	-9.10E-10	-9.57E-10	-9.57E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.96E-08	-1.77E-08	-1.98E-08	-1.27E-09	-1.11E-09	-1.20E-09	-6.90E-10	-7.40E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



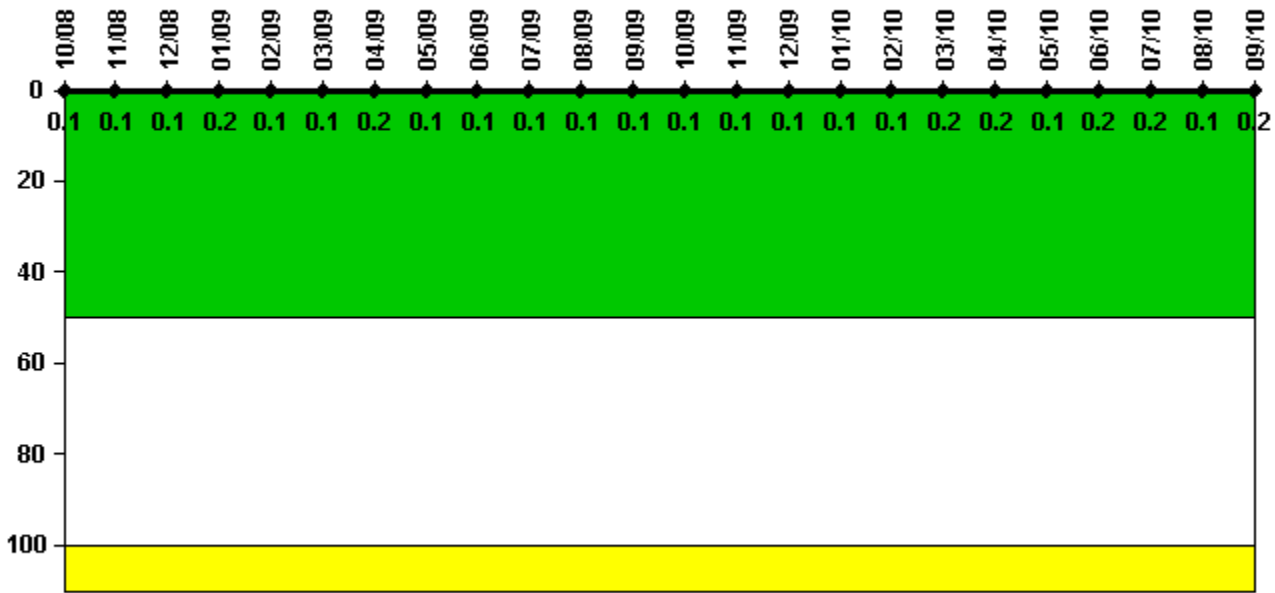
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	9.80E-08	1.20E-07	1.40E-07	1.10E-08	6.90E-09	6.88E-09	6.40E-09	7.35E-09
URI (ΔCDF)	-1.40E-07	-1.50E-07	-1.50E-07	-2.00E-08	-2.00E-08	-1.98E-08	-2.01E-08	-1.94E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.20E-08	-3.00E-08	-1.00E-08	-9.00E-09	-1.31E-08	-1.30E-08	-1.40E-08	-1.20E-08

Licensee Comments: none

Reactor Coolant System Activity



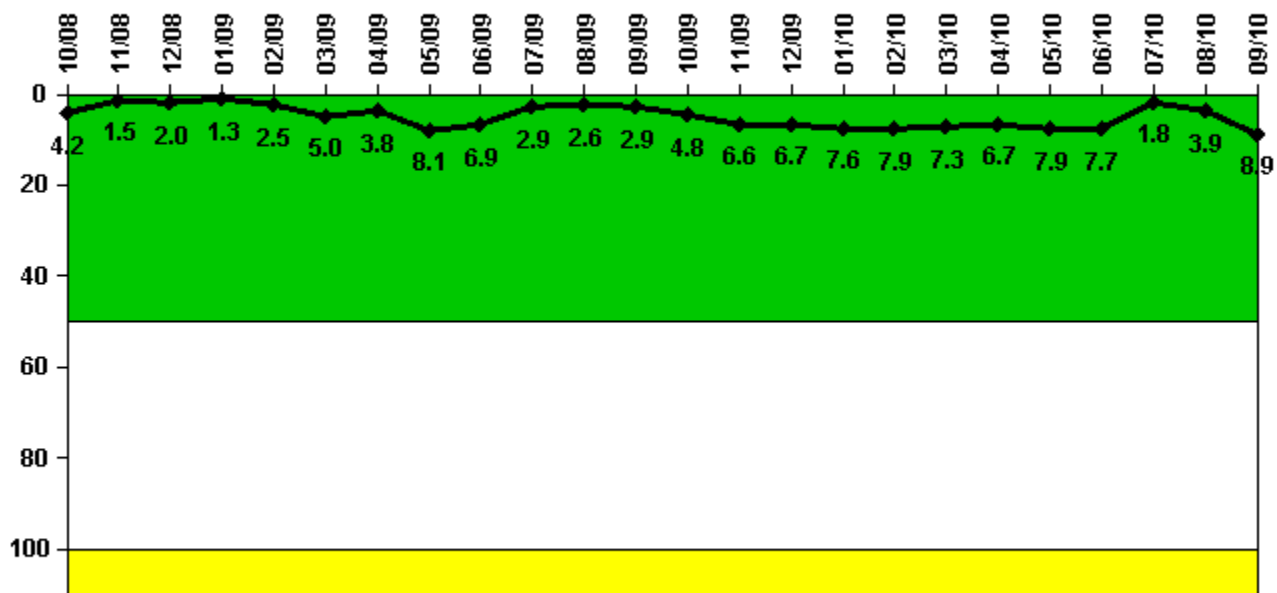
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum activity	0.001140	0.001310	0.001410	0.001580	0.001420	0.001480	0.001630	0.000819	0.000665	0.000750	0.000796	0.000851
Technical specification limit	1.0	1.0	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	0.1	0.2	0.1	0.1	0.1	0.1	0.1
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	0.000981	0.000996	0.001130	0.001250	0.001270	0.001720	0.001550	0.001370	0.001510	0.001550	0.001420	0.002170
Technical specification limit	1.0	1.0	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	0.1	0.2	0.2	0.1	0.2

Licensee Comments: none

Reactor Coolant System Leakage



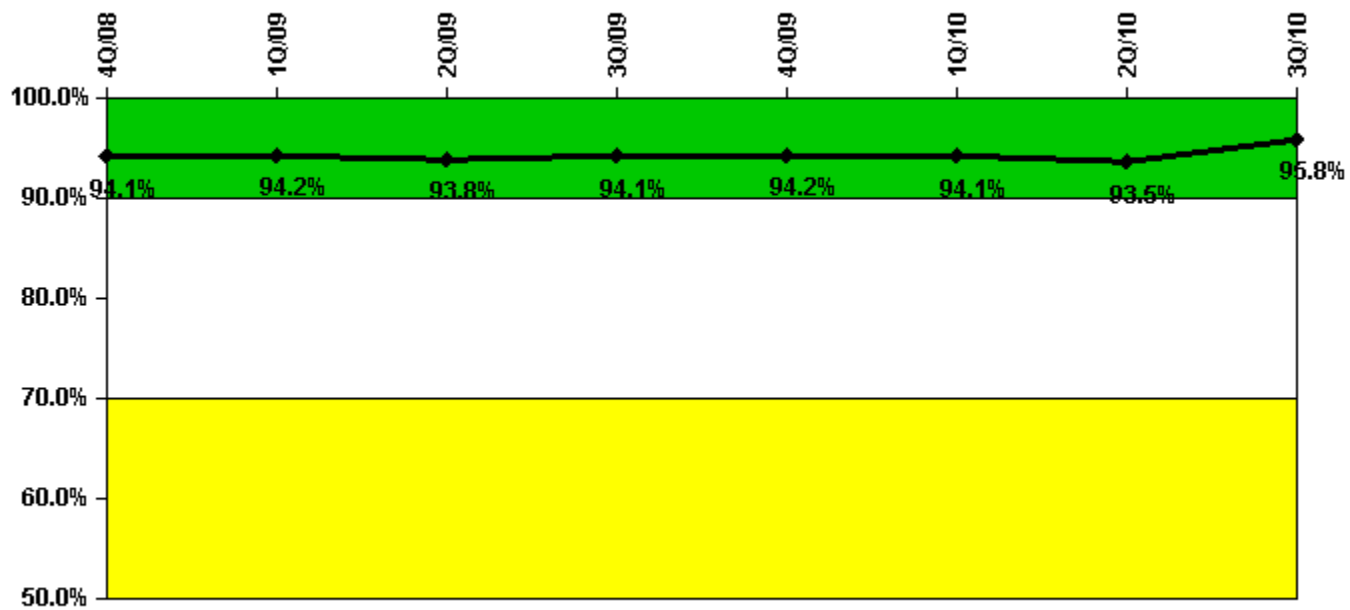
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.420	0.150	0.200	0.130	0.250	0.500	0.380	0.810	0.690	0.290	0.260	0.290
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	4.2	1.5	2.0	1.3	2.5	5.0	3.8	8.1	6.9	2.9	2.6	2.9
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	0.480	0.660	0.670	0.760	0.790	0.730	0.670	0.790	0.770	0.180	0.390	0.890
Technical specification limit	10.0	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	6.6	6.7	7.6	7.9	7.3	6.7	7.9	7.7	1.8	3.9	8.9

Licensee Comments: none

Drill/Exercise Performance



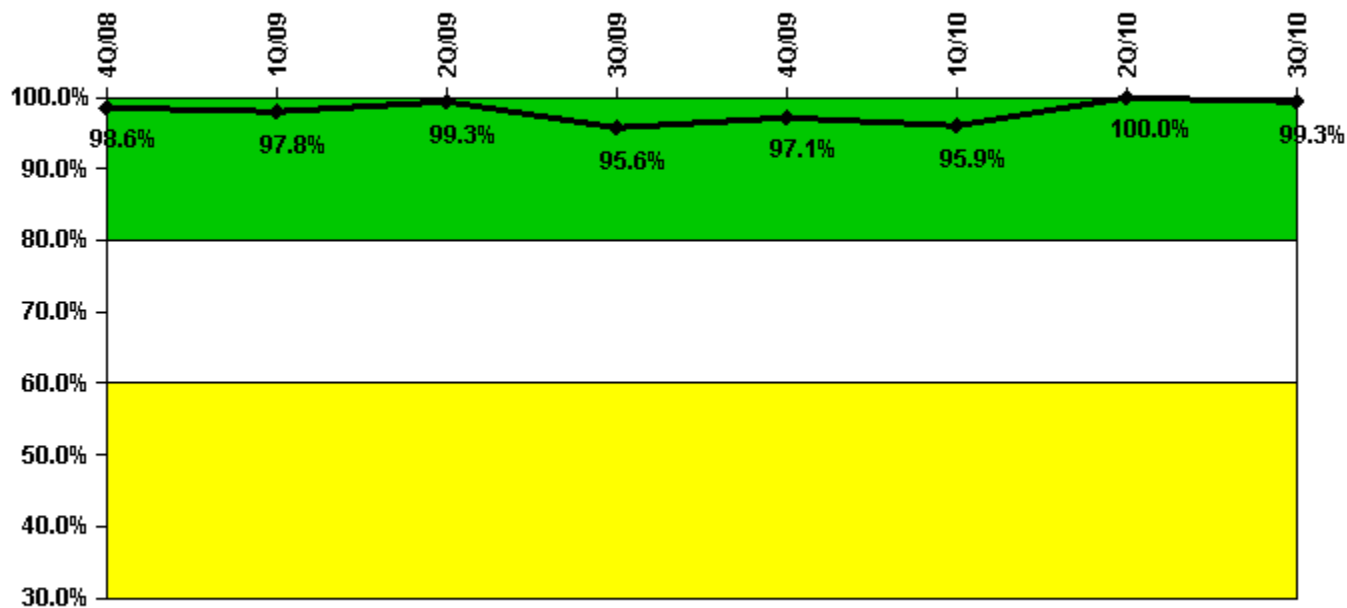
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful opportunities	20.0	36.0	36.0	20.0	26.0	38.0	33.0	41.0
Total opportunities	21.0	38.0	39.0	21.0	26.0	40.0	35.0	41.0
Indicator value	94.1%	94.2%	93.8%	94.1%	94.2%	94.1%	93.5%	95.8%

Licensee Comments: none

ERO Drill Participation



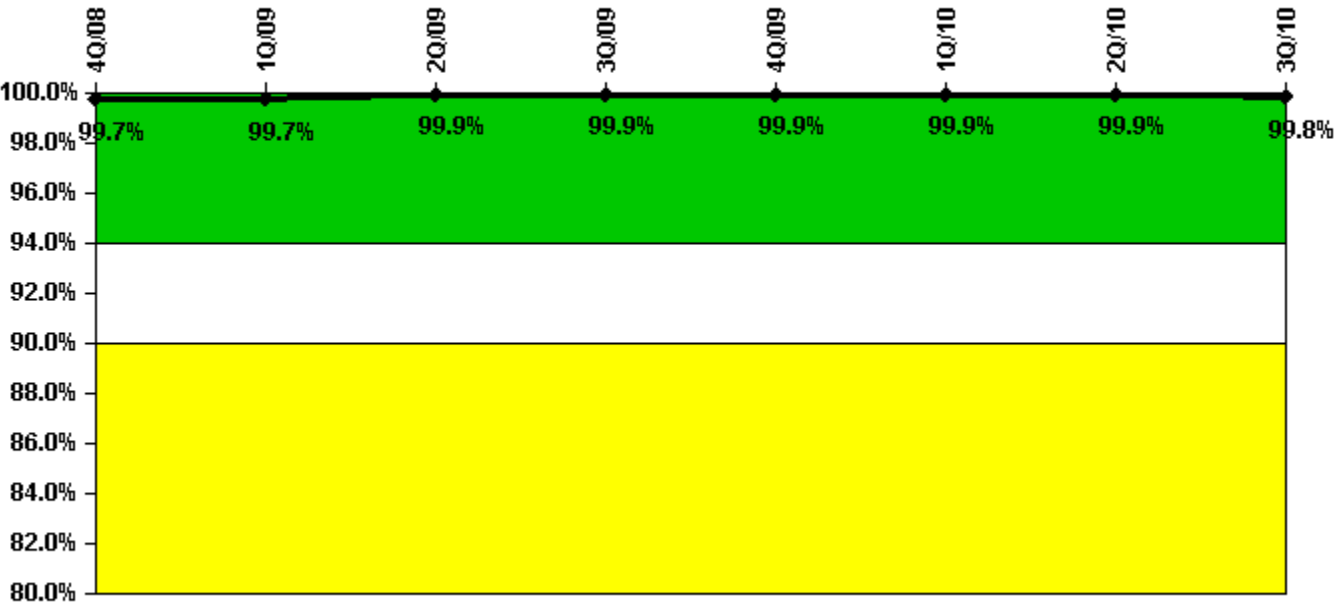
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Participating Key personnel	144.0	133.0	136.0	130.0	135.0	142.0	145.0	143.0
Total Key personnel	146.0	136.0	137.0	136.0	139.0	148.0	145.0	144.0
Indicator value	98.6%	97.8%	99.3%	95.6%	97.1%	95.9%	100.0%	99.3%

Licensee Comments: none

Alert & Notification System



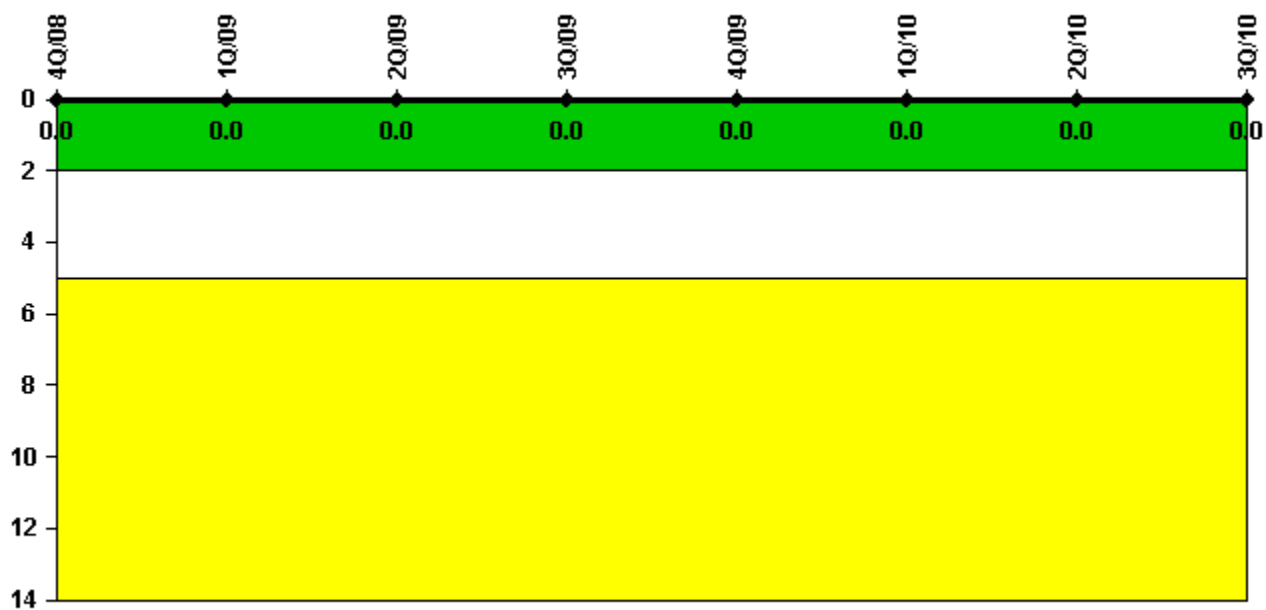
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful siren-tests	544	476	475	543	544	476	542	473
Total sirens-tests	544	476	476	544	544	476	544	476
Indicator value	99.7%	99.7%	99.9%	99.9%	99.9%	99.9%	99.9%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



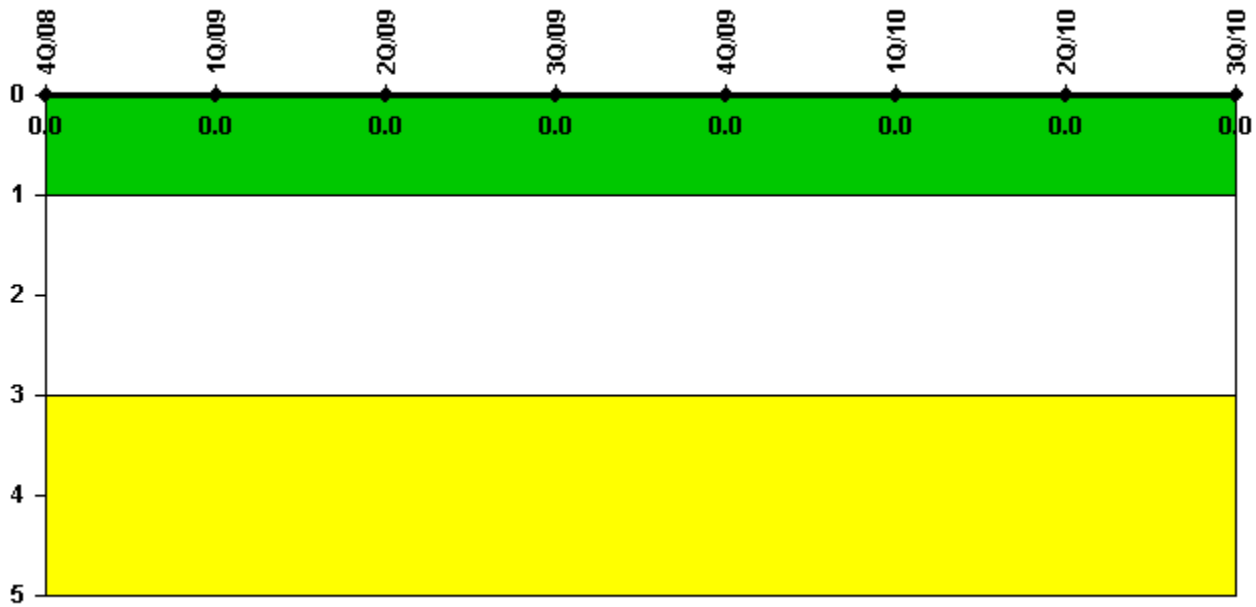
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

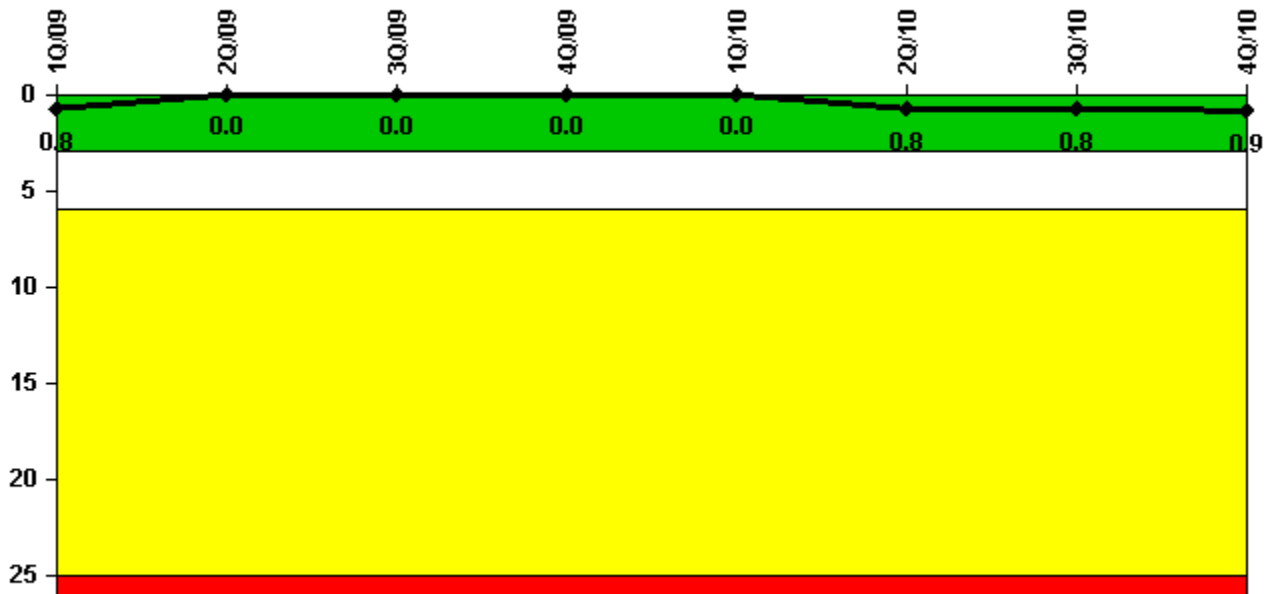
[Security](#) information not publicly available.

Surry 1

4Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



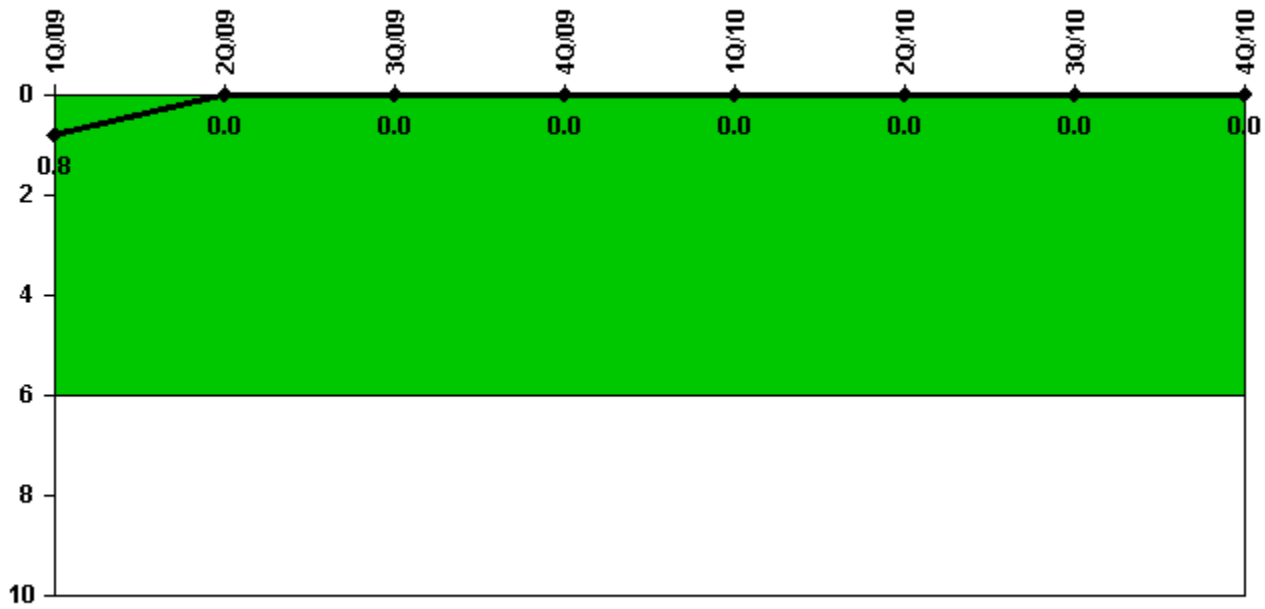
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2159.0	1655.9	2208.0	2209.0	2159.0	2107.0	2208.0	1290.0
Indicator value	0.8	0	0	0	0	0.8	0.8	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



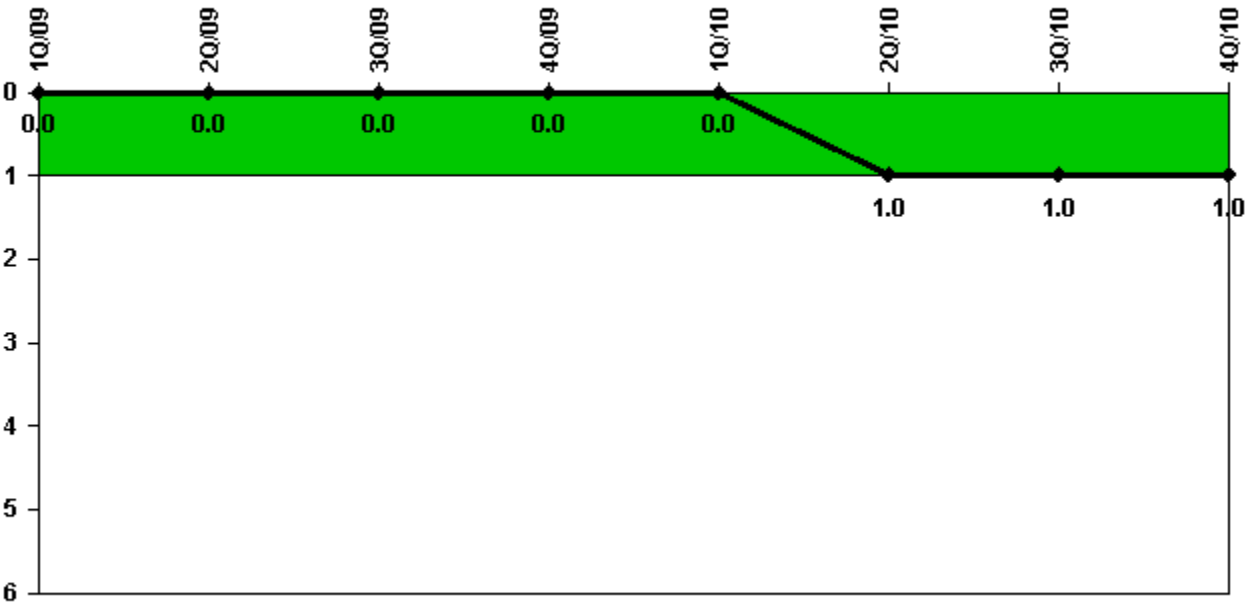
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2159.0	1655.9	2208.0	2209.0	2159.0	2107.0	2208.0	1290.0
Indicator value	0.8	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



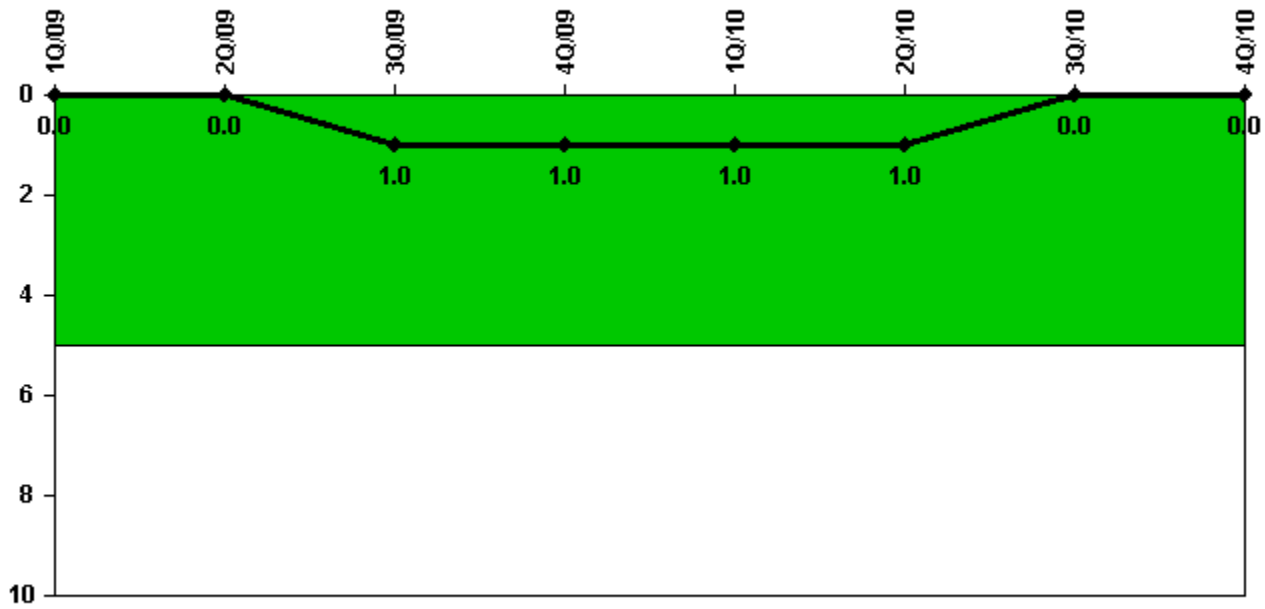
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



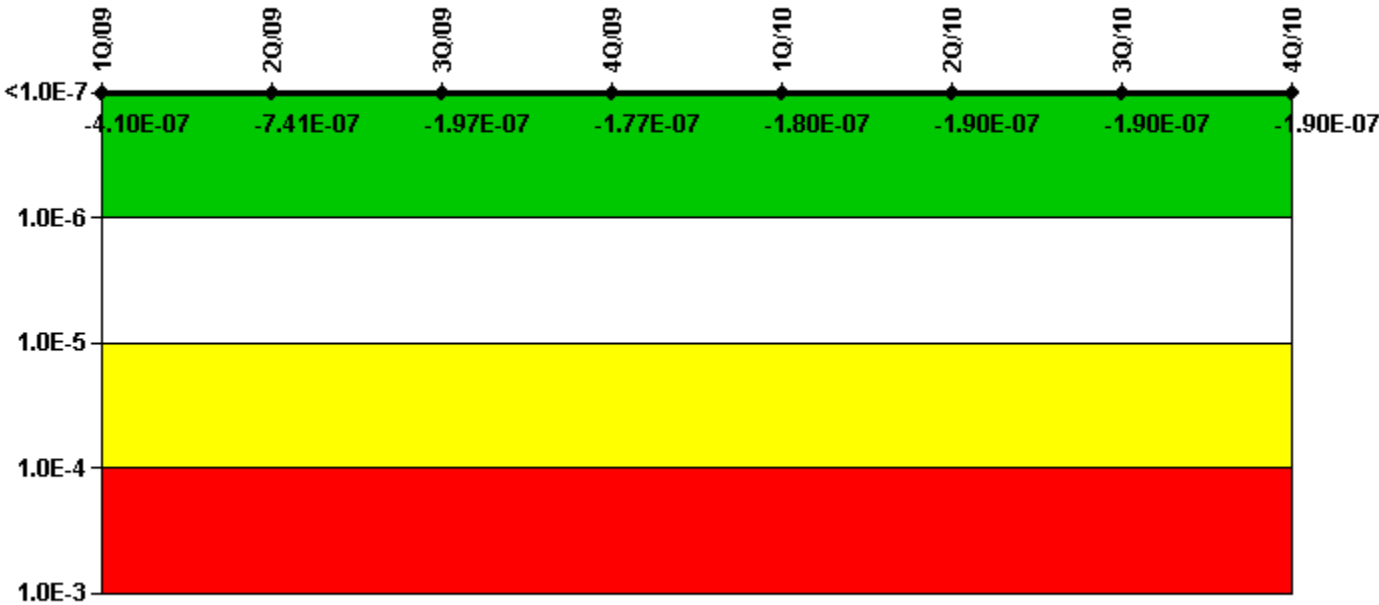
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



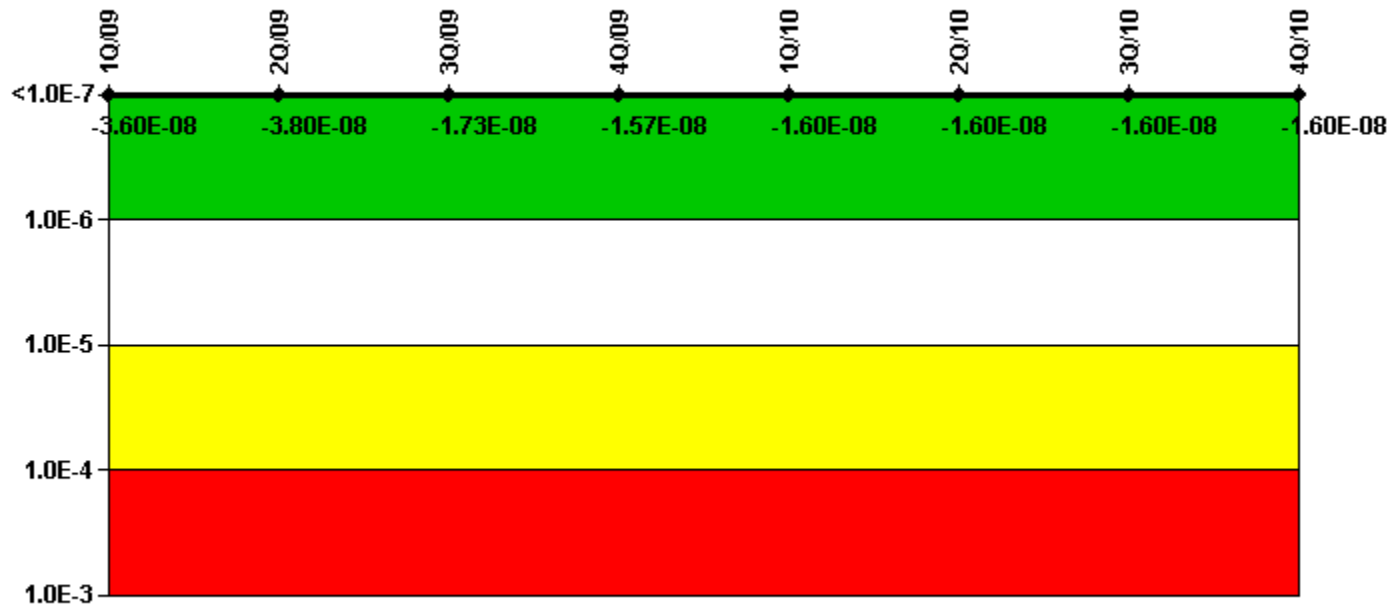
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (ΔCDF)	4.00E-08	4.90E-08	3.40E-09	3.30E-09	3.29E-09	3.39E-10	3.39E-10	1.38E-10
URI (ΔCDF)	-4.50E-07	-7.90E-07	-2.00E-07	-1.80E-07	-1.82E-07	-1.89E-07	-1.87E-07	-1.88E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.10E-07	-7.41E-07	-1.97E-07	-1.77E-07	-1.80E-07	-1.90E-07	-1.90E-07	-1.90E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



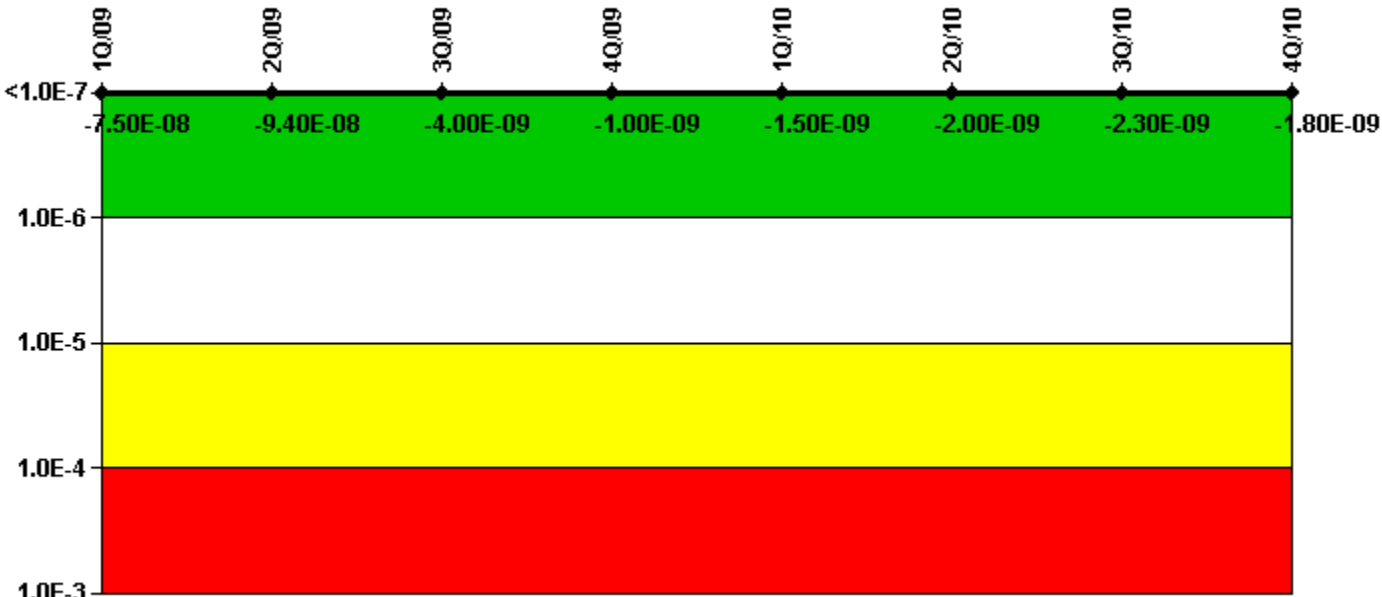
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	-2.00E-09	-2.00E-09	-1.30E-09	-7.40E-10	-8.32E-10	-8.32E-10	-8.32E-10	-8.32E-10
URI (Δ CDF)	-3.40E-08	-3.60E-08	-1.60E-08	-1.50E-08	-1.48E-08	-1.50E-08	-1.52E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.60E-08	-3.80E-08	-1.73E-08	-1.57E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



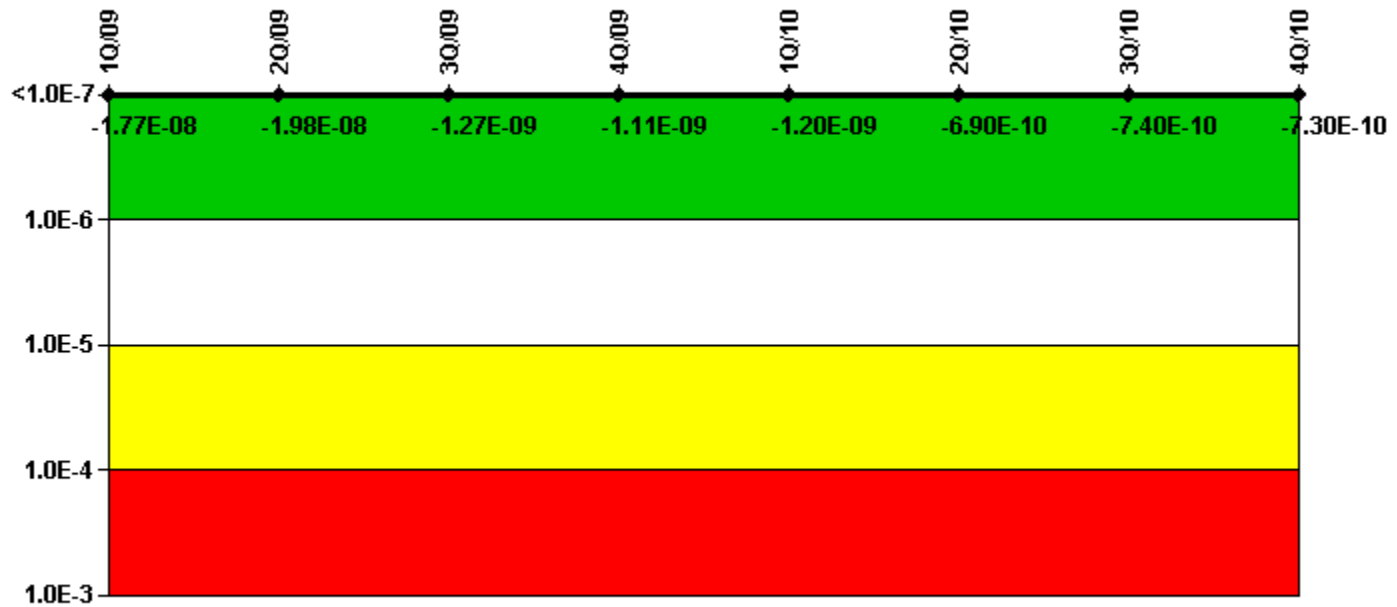
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (ΔCDF)	4.50E-08	2.60E-08	1.40E-08	1.40E-08	1.37E-08	1.45E-08	1.36E-08	1.35E-08
URI (ΔCDF)	-1.20E-07	-1.20E-07	-1.80E-08	-1.50E-08	-1.53E-08	-1.65E-08	-1.59E-08	-1.53E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.50E-08	-9.40E-08	-4.00E-09	-1.00E-09	-1.50E-09	-2.00E-09	-2.30E-09	-1.80E-09

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



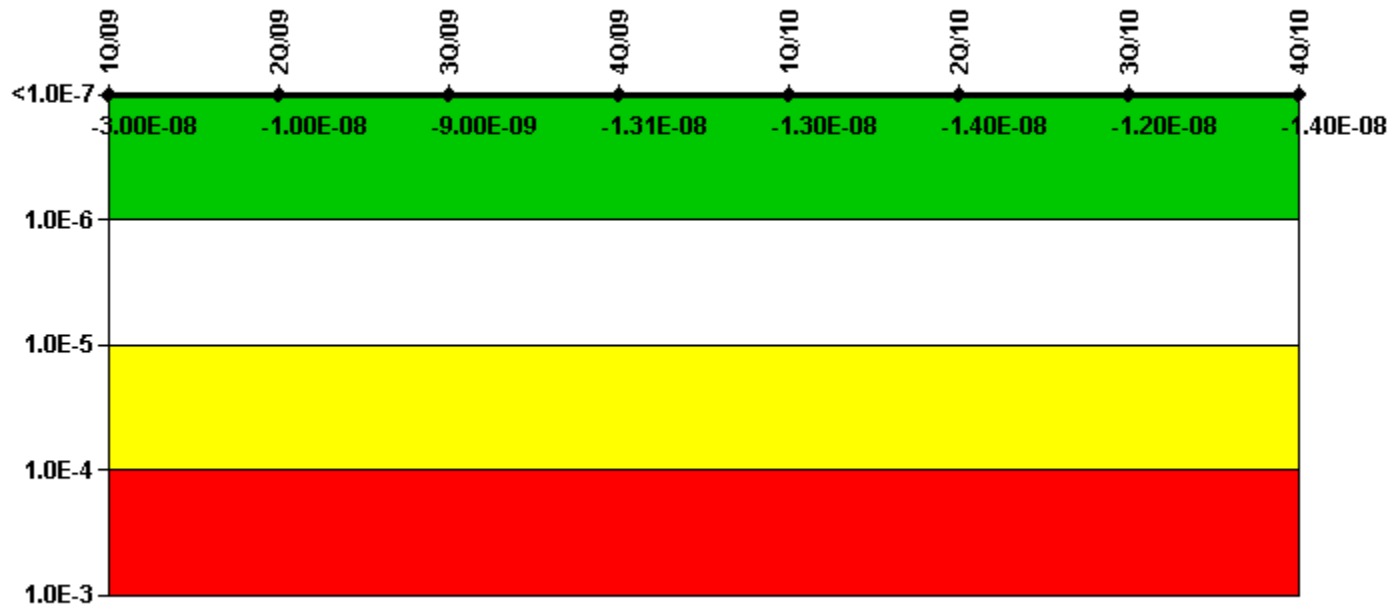
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	-2.70E-09	-2.80E-09	-1.70E-10	-1.70E-10	-2.70E-10	2.71E-10	2.14E-10	2.07E-10
URI (Δ CDF)	-1.50E-08	-1.70E-08	-1.10E-09	-9.40E-10	-9.10E-10	-9.57E-10	-9.57E-10	-9.35E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.77E-08	-1.98E-08	-1.27E-09	-1.11E-09	-1.20E-09	-6.90E-10	-7.40E-10	-7.30E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



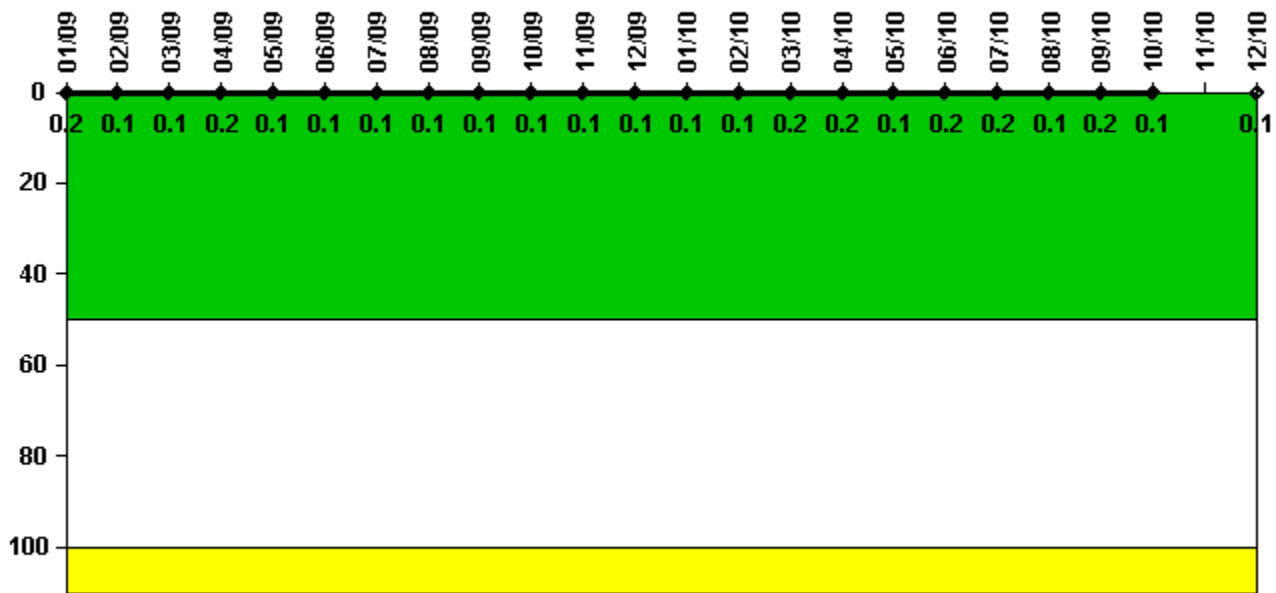
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.20E-07	1.40E-07	1.10E-08	6.90E-09	6.88E-09	6.40E-09	7.35E-09	5.24E-09
URI (ΔCDF)	-1.50E-07	-1.50E-07	-2.00E-08	-2.00E-08	-1.98E-08	-2.01E-08	-1.94E-08	-1.97E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.00E-08	-1.00E-08	-9.00E-09	-1.31E-08	-1.30E-08	-1.40E-08	-1.20E-08	-1.40E-08

Licensee Comments: none

Reactor Coolant System Activity



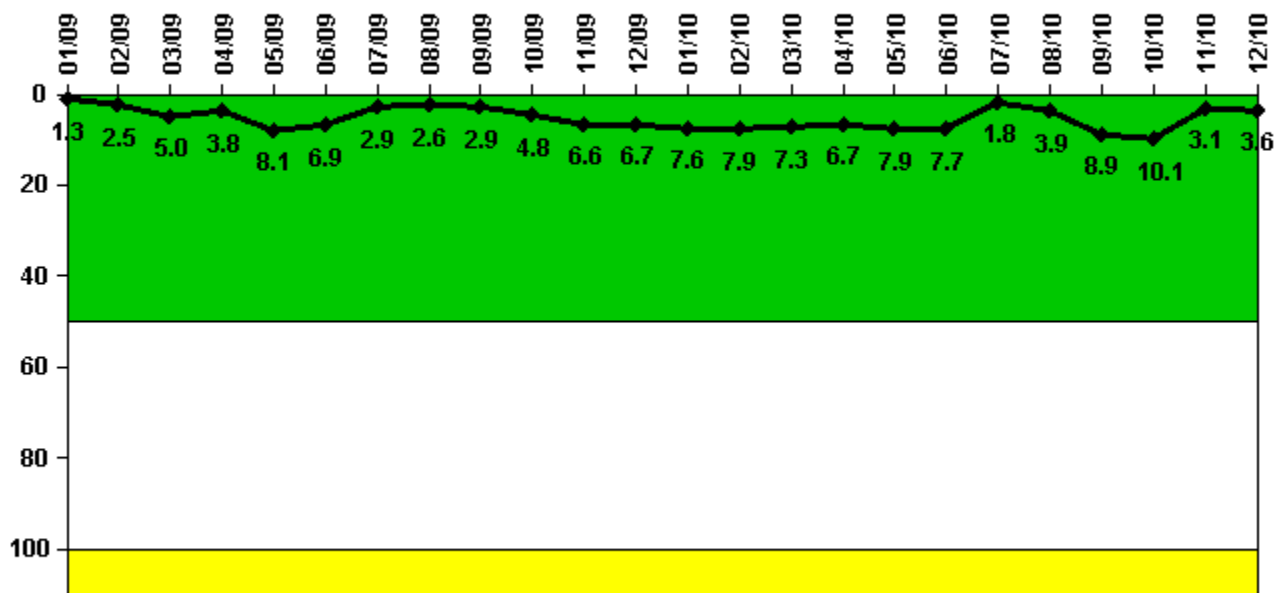
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum activity	0.001580	0.001420	0.001480	0.001630	0.000819	0.000665	0.000750	0.000796	0.000851	0.000981	0.000996	0.001130
Technical specification limit	1.0	1.0	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	0.2	0.1	0.1	0.1	0.1	0.1	0.1	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	0.001250	0.001270	0.001720	0.001550	0.001370	0.001510	0.001550	0.001420	0.002170	0.001350	N/A	0.000958
Technical specification limit	1.0	1.0	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	0.1	0.2	0.2	0.1	0.2	0.1	N/A	0.1

Licensee Comments: none

Reactor Coolant System Leakage



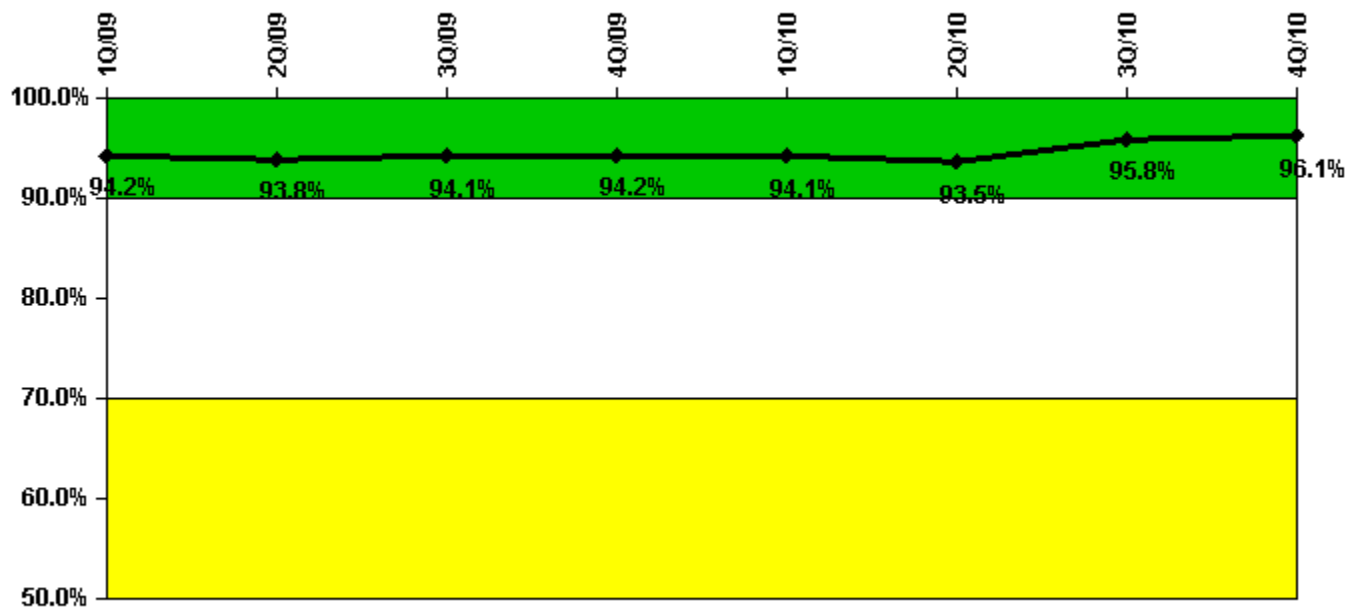
Thresholds: White > 50.0 Yellow > 100.0

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	0.130	0.250	0.500	0.380	0.810	0.690	0.290	0.260	0.290	0.480	0.660	0.670
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	2.5	5.0	3.8	8.1	6.9	2.9	2.6	2.9	4.8	6.6	6.7
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	0.760	0.790	0.730	0.670	0.790	0.770	0.180	0.390	0.890	1.010	0.310	0.360
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	7.6	7.9	7.3	6.7	7.9	7.7	1.8	3.9	8.9	10.1	3.1	3.6

Licensee Comments: none

Drill/Exercise Performance



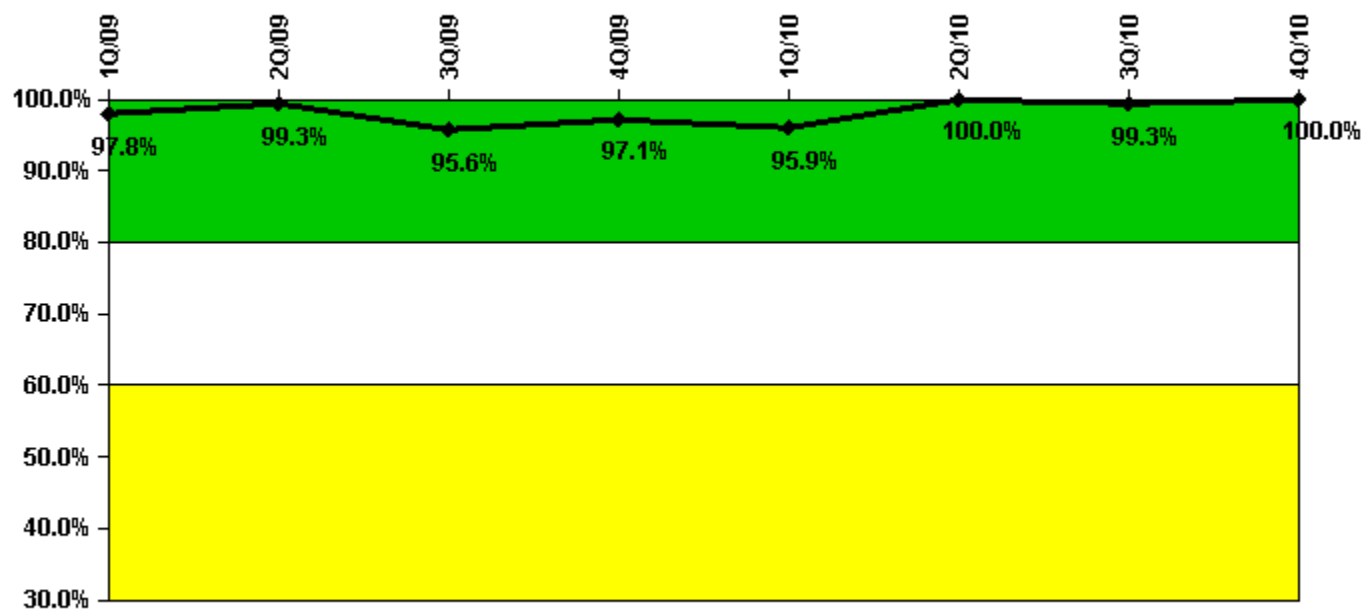
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful opportunities	36.0	36.0	20.0	26.0	38.0	33.0	41.0	15.0
Total opportunities	38.0	39.0	21.0	26.0	40.0	35.0	41.0	15.0
Indicator value	94.2%	93.8%	94.1%	94.2%	94.1%	93.5%	95.8%	96.1%

Licensee Comments: none

ERO Drill Participation



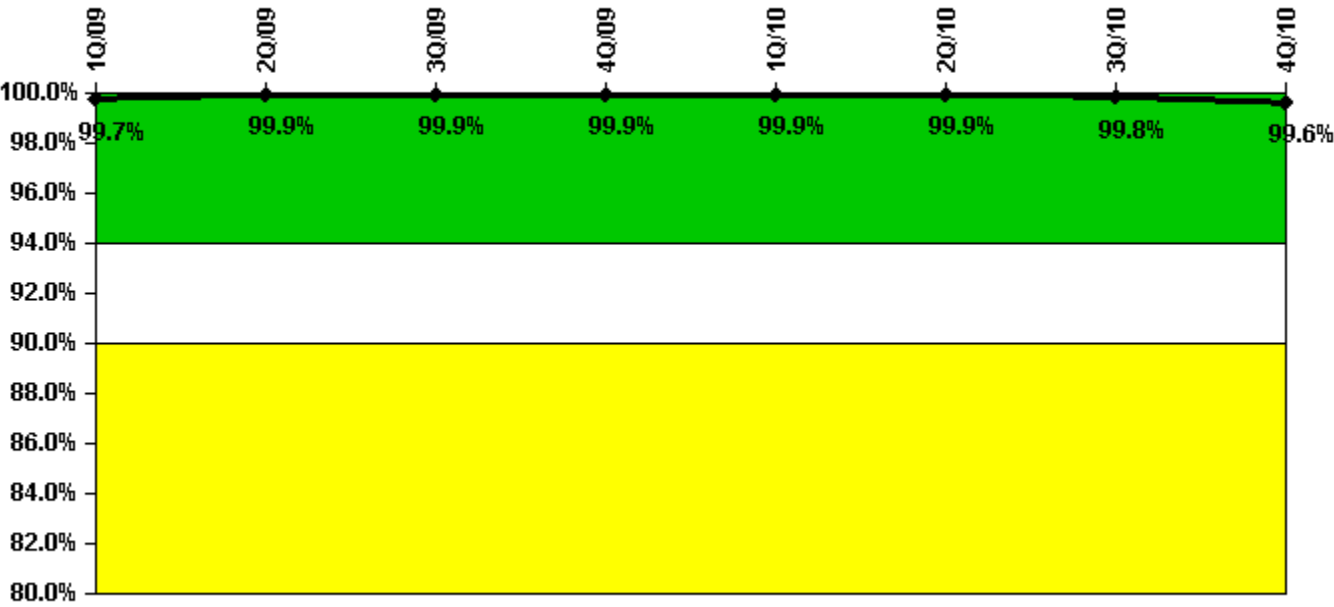
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Participating Key personnel	133.0	136.0	130.0	135.0	142.0	145.0	143.0	128.0
Total Key personnel	136.0	137.0	136.0	139.0	148.0	145.0	144.0	128.0
Indicator value	97.8%	99.3%	95.6%	97.1%	95.9%	100.0%	99.3%	100.0%

Licensee Comments: none

Alert & Notification System



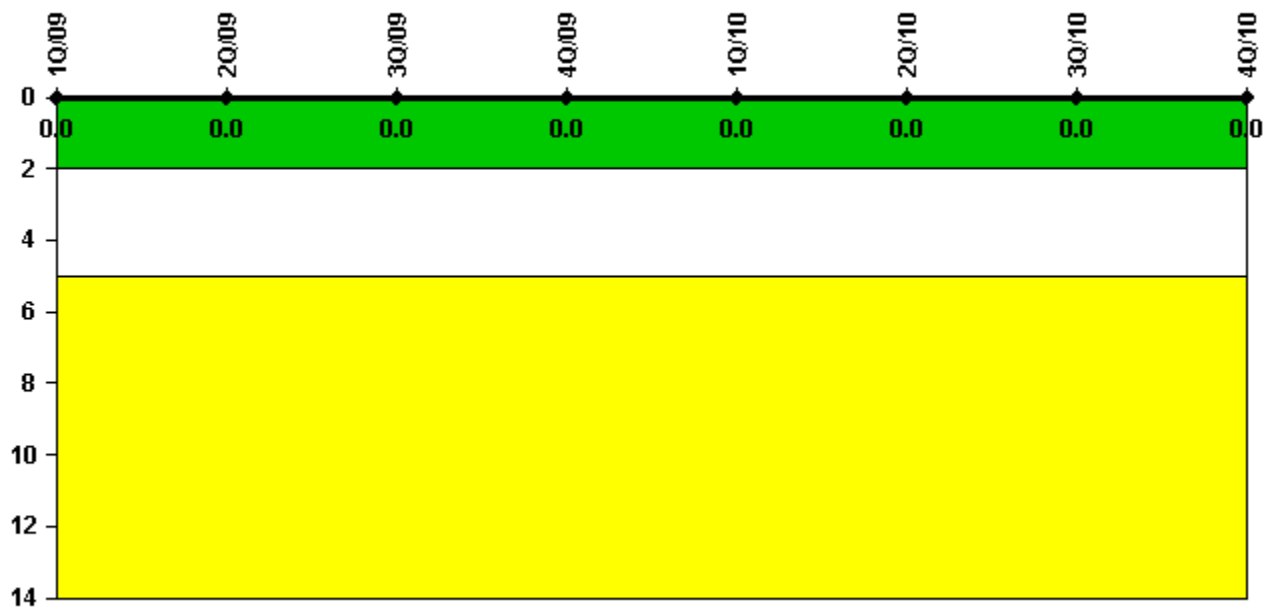
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful siren-tests	476	475	543	544	476	542	473	540
Total sirens-tests	476	476	544	544	476	544	476	544
Indicator value	99.7%	99.9%	99.9%	99.9%	99.9%	99.9%	99.8%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



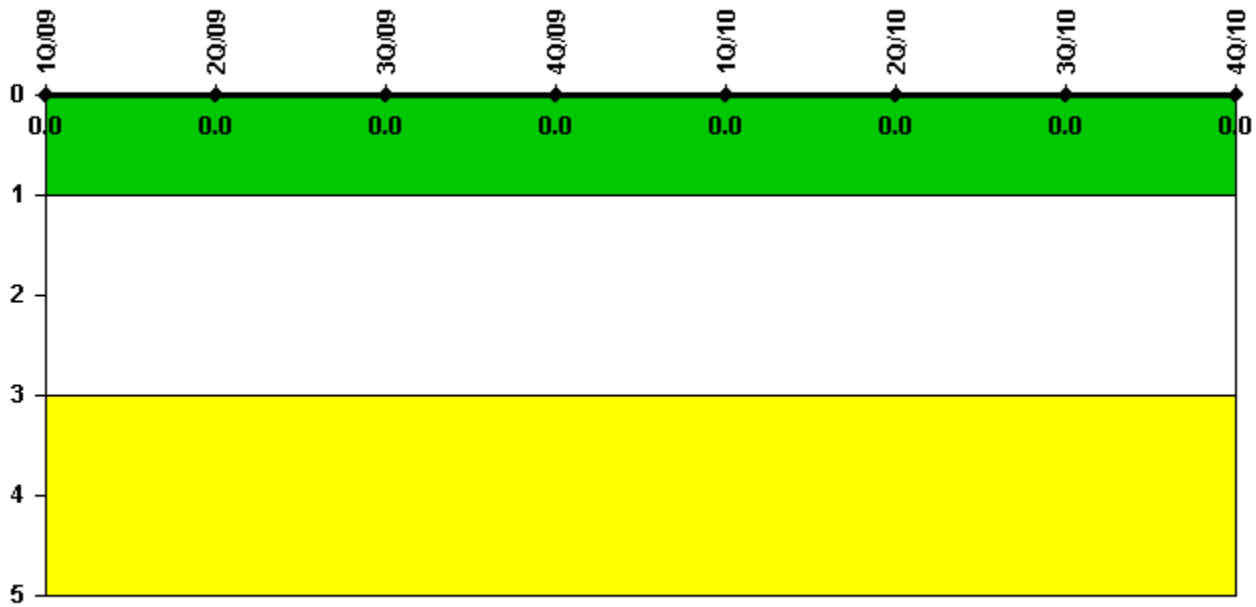
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

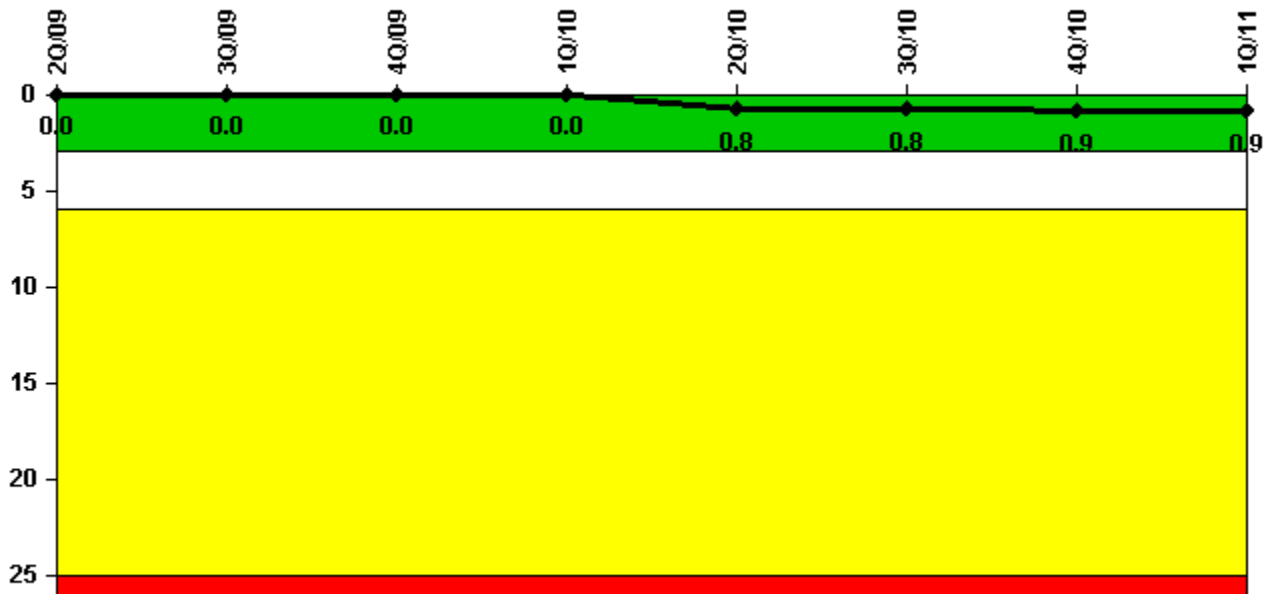
[Security](#) information not publicly available.

Surry 1

1Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



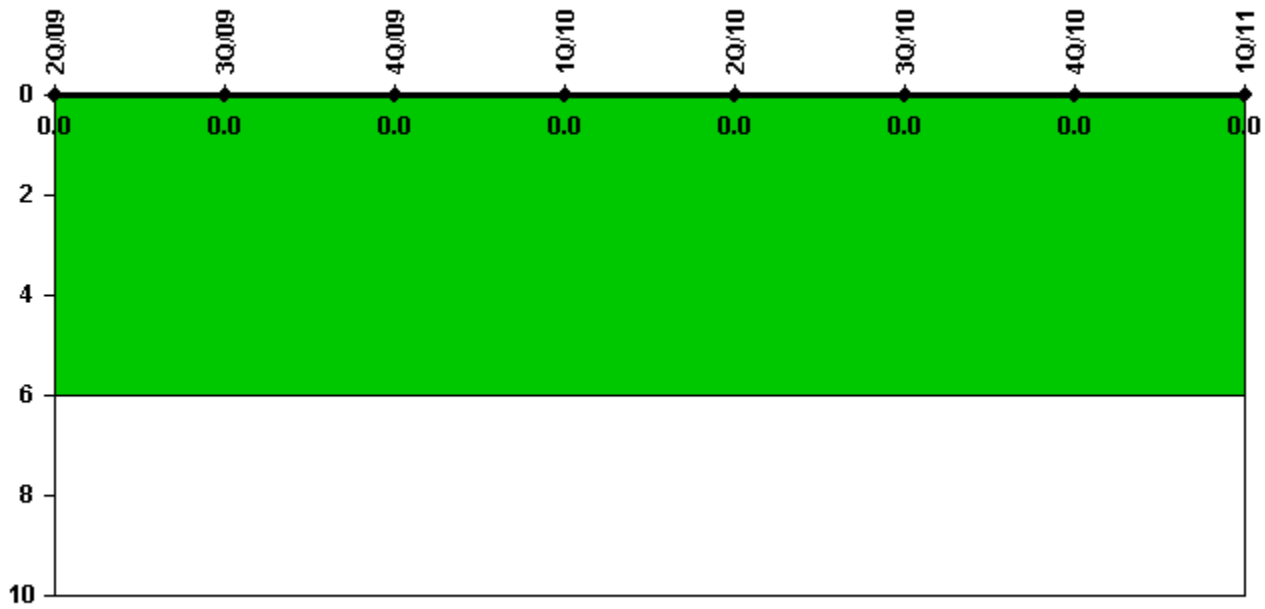
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	1655.9	2208.0	2209.0	2159.0	2107.0	2208.0	1290.0	2159.0
Indicator value	0	0	0	0	0.8	0.8	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



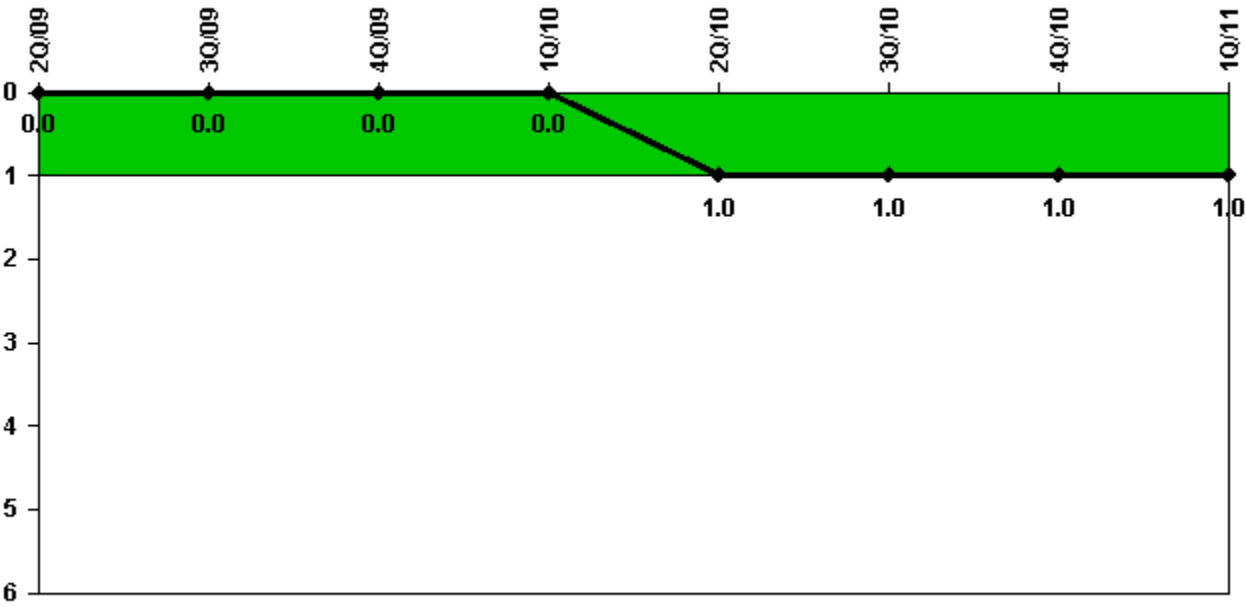
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1655.9	2208.0	2209.0	2159.0	2107.0	2208.0	1290.0	2159.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



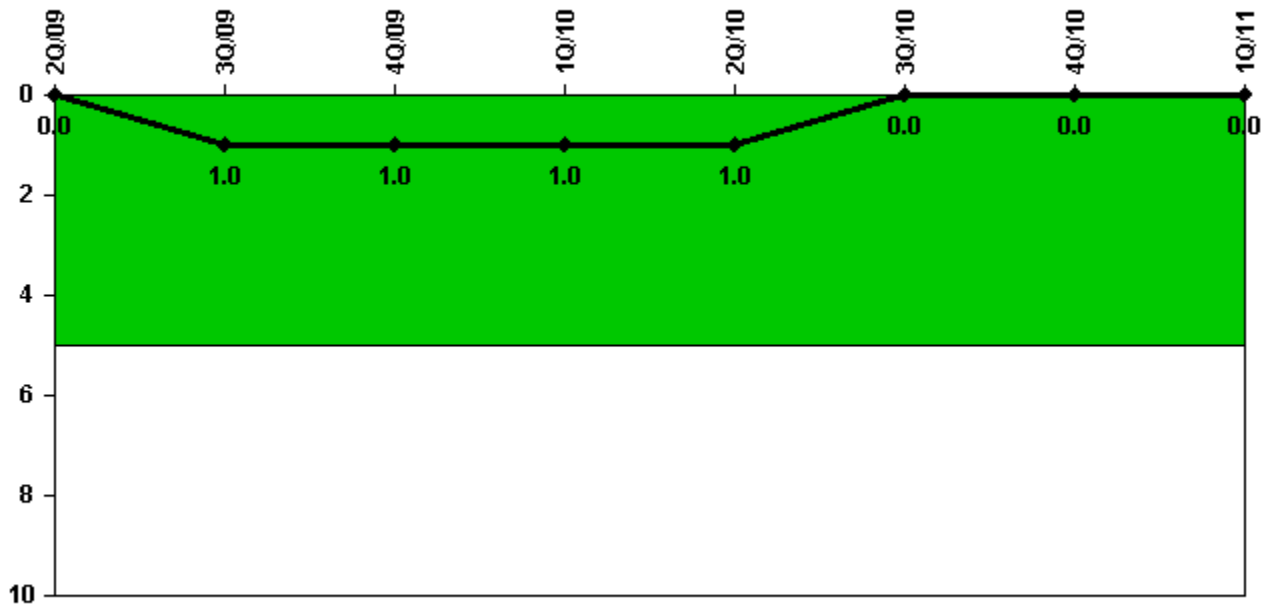
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Scrams with complications	0	0	0	0	1.0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Safety System Functional Failures (PWR)



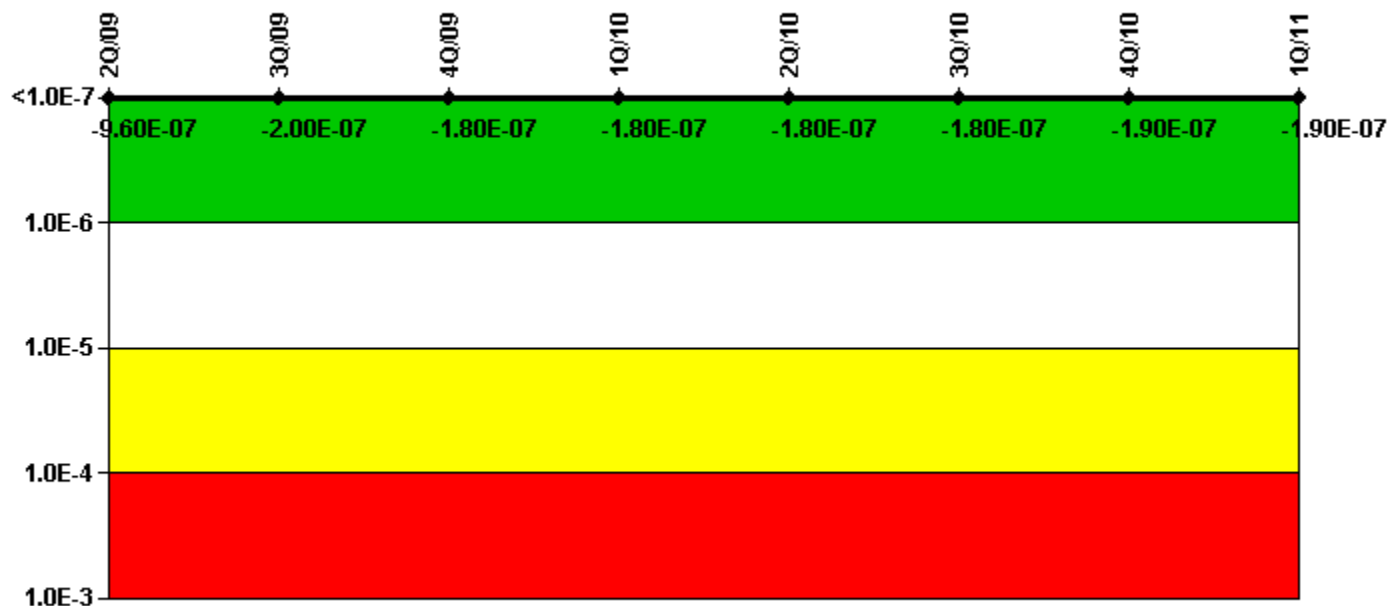
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Safety System Functional Failures	0	1	0	0	0	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	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	-2.00E-07	-1.37E-08	-1.35E-08	-1.35E-08	-9.41E-09	-1.65E-08	-1.66E-08	-1.66E-08
URI (Δ CDF)	-7.57E-07	-1.86E-07	-1.66E-07	-1.67E-07	-1.71E-07	-1.67E-07	-1.69E-07	-1.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.60E-07	-2.00E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.90E-07	-1.90E-07

Licensee Comments:

1Q/11: An NRC assessment identified several instances of unplanned unavailability and post maintenance test demands that were reported incorrectly. Historical data was corrected with no change in color.

Mitigating Systems Performance Index, High Pressure Injection System



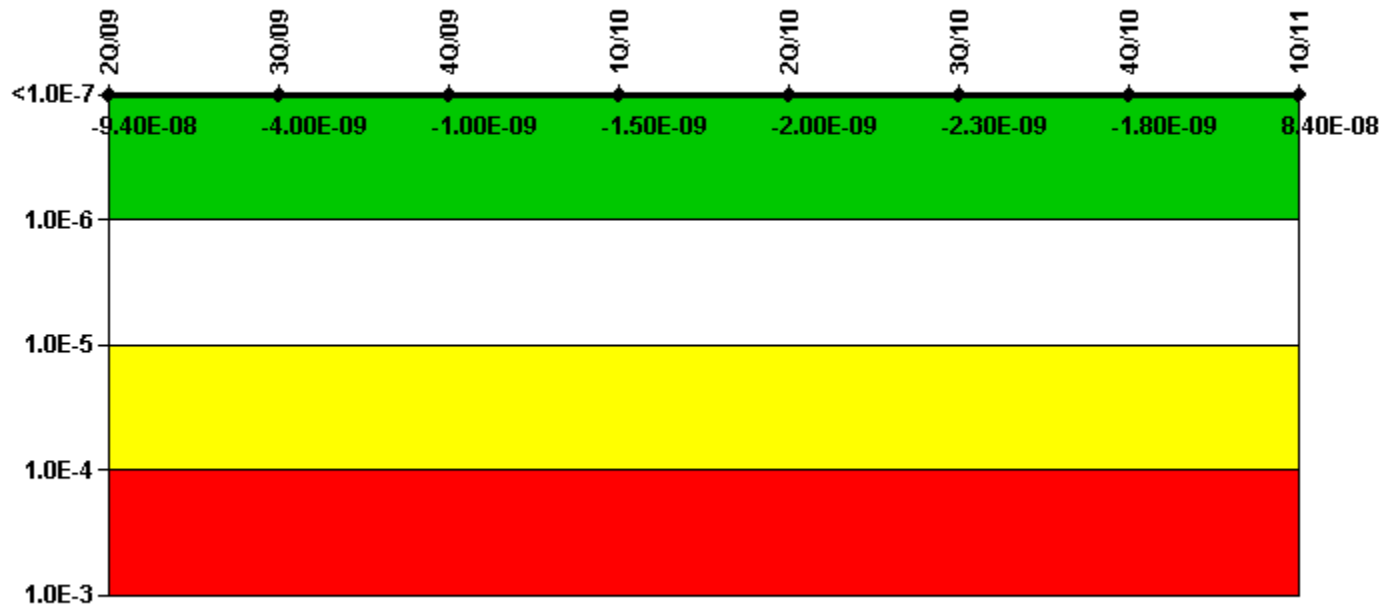
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	-2.00E-09	-1.30E-09	-7.40E-10	-8.32E-10	-8.32E-10	-8.32E-10	-8.32E-10	-8.32E-10
URI (Δ CDF)	-3.60E-08	-1.60E-08	-1.50E-08	-1.48E-08	-1.50E-08	-1.52E-08	-1.50E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.80E-08	-1.73E-08	-1.57E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



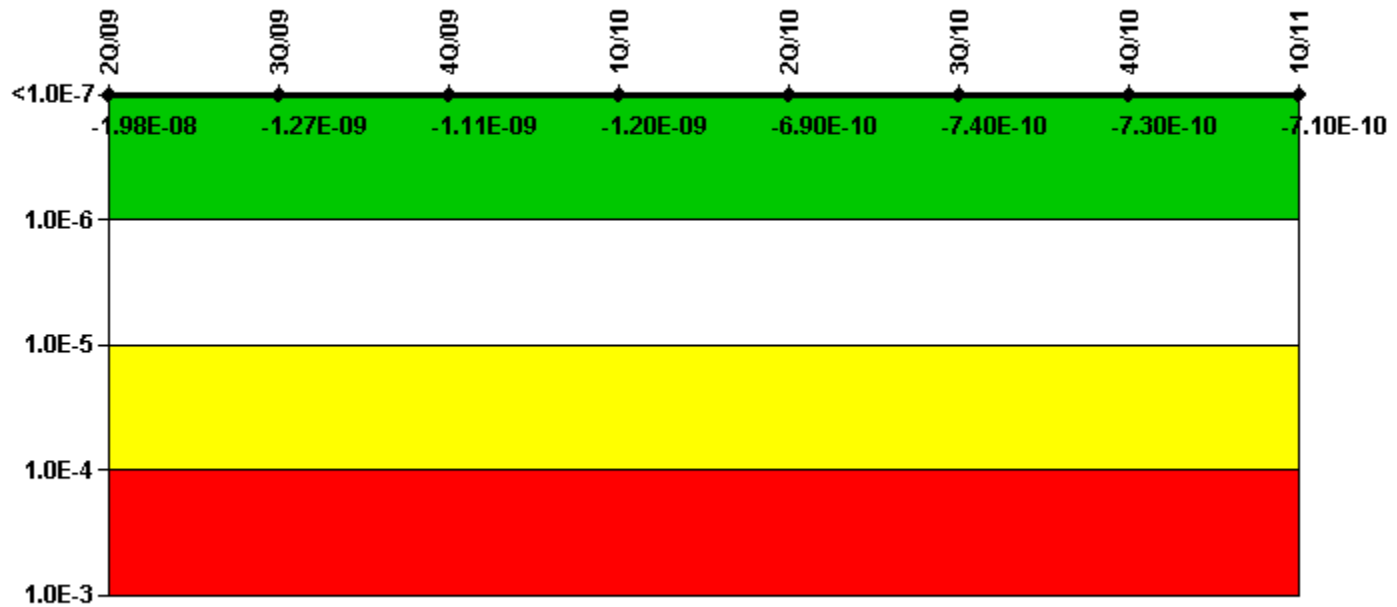
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	2.60E-08	1.40E-08	1.40E-08	1.37E-08	1.45E-08	1.36E-08	1.35E-08	1.44E-08
URI (ΔCDF)	-1.20E-07	-1.80E-08	-1.50E-08	-1.53E-08	-1.65E-08	-1.59E-08	-1.53E-08	6.97E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.40E-08	-4.00E-09	-1.00E-09	-1.50E-09	-2.00E-09	-2.30E-09	-1.80E-09	8.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



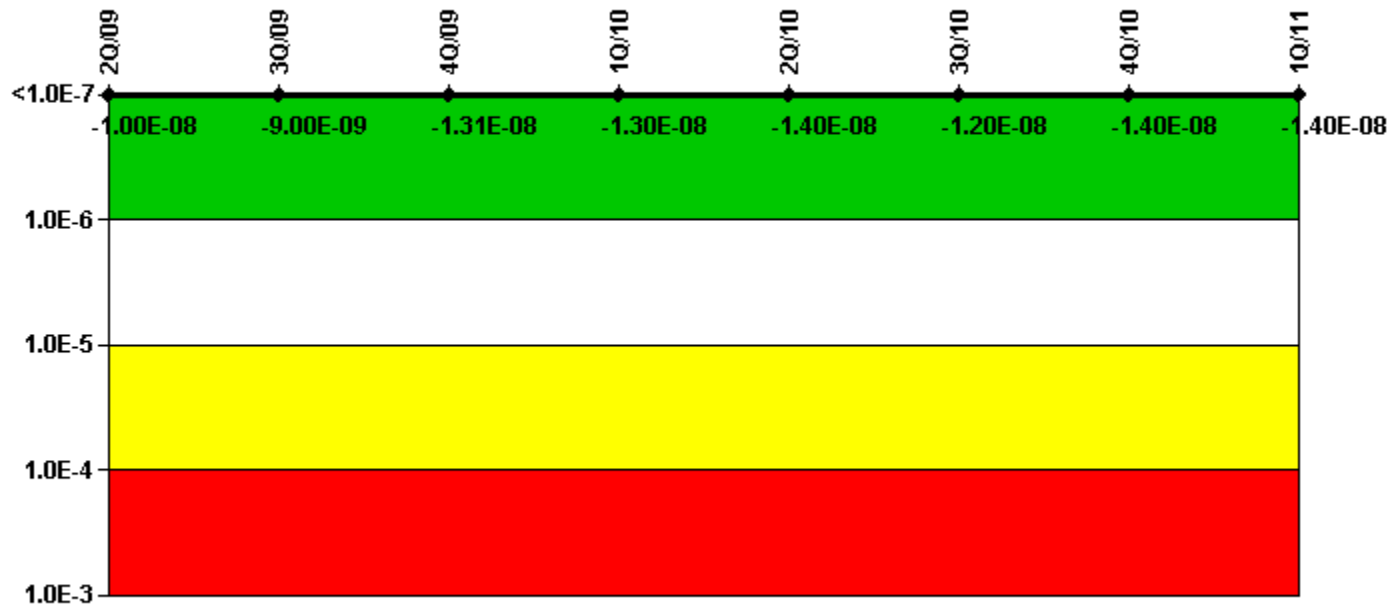
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	-2.80E-09	-1.70E-10	-1.70E-10	-2.70E-10	2.71E-10	2.14E-10	2.07E-10	2.25E-10
URI (Δ CDF)	-1.70E-08	-1.10E-09	-9.40E-10	-9.10E-10	-9.57E-10	-9.57E-10	-9.35E-10	-9.35E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.98E-08	-1.27E-09	-1.11E-09	-1.20E-09	-6.90E-10	-7.40E-10	-7.30E-10	-7.10E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



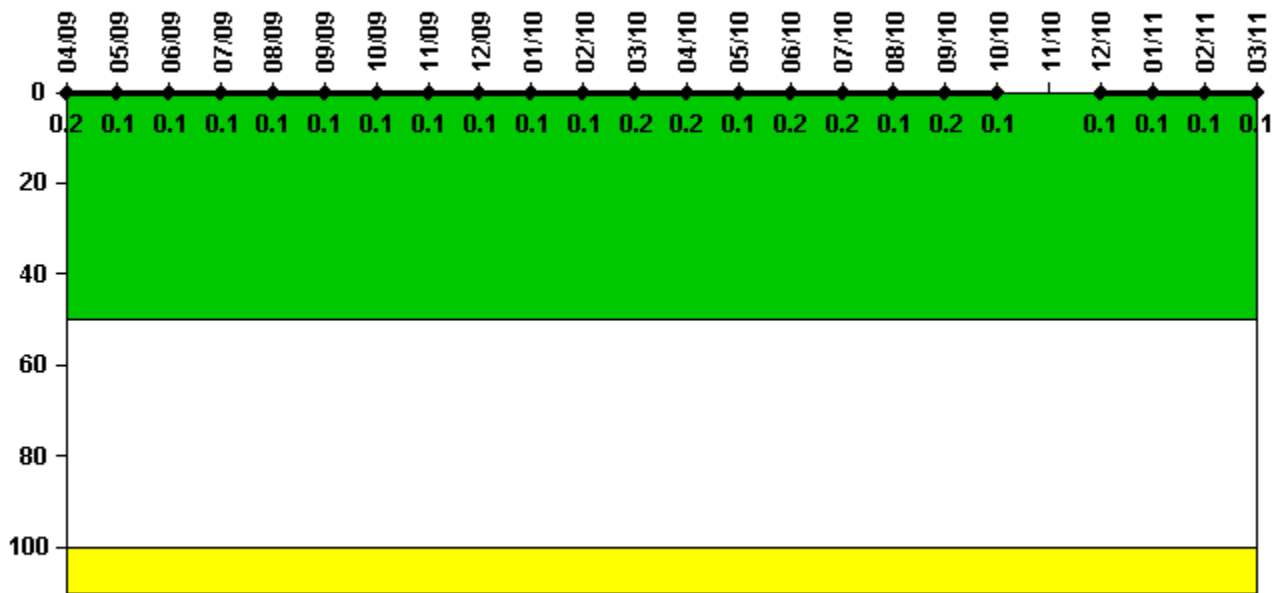
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.40E-07	1.10E-08	6.90E-09	6.88E-09	6.40E-09	7.35E-09	5.24E-09	5.56E-09
URI (ΔCDF)	-1.50E-07	-2.00E-08	-2.00E-08	-1.98E-08	-2.01E-08	-1.94E-08	-1.97E-08	-1.97E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.00E-08	-9.00E-09	-1.31E-08	-1.30E-08	-1.40E-08	-1.20E-08	-1.40E-08	-1.40E-08

Licensee Comments: none

Reactor Coolant System Activity



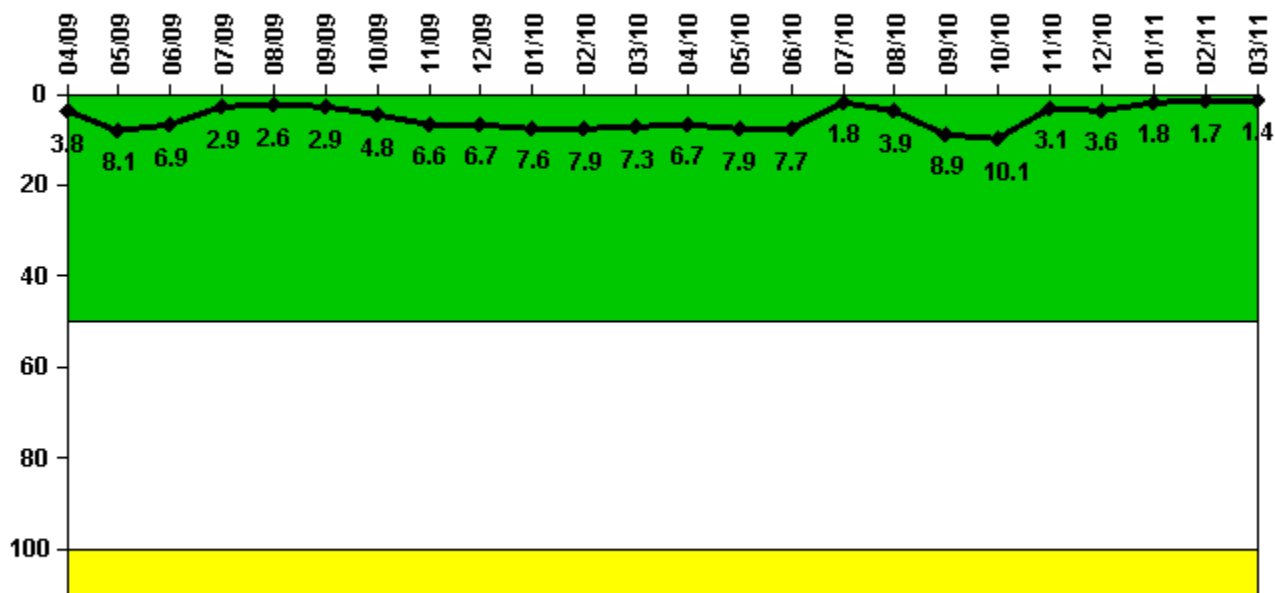
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum activity	0.001630	0.000819	0.000665	0.000750	0.000796	0.000851	0.000981	0.000996	0.001130	0.001250	0.001270	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	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Reactor Coolant System Activity	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum activity	0.001550	0.001370	0.001510	0.001550	0.001420	0.002170	0.001350	N/A	0.000958	0.001130	0.000738	0.000849
Technical specification limit	1.0	1.0	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	0.1	0.2	0.1	N/A	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



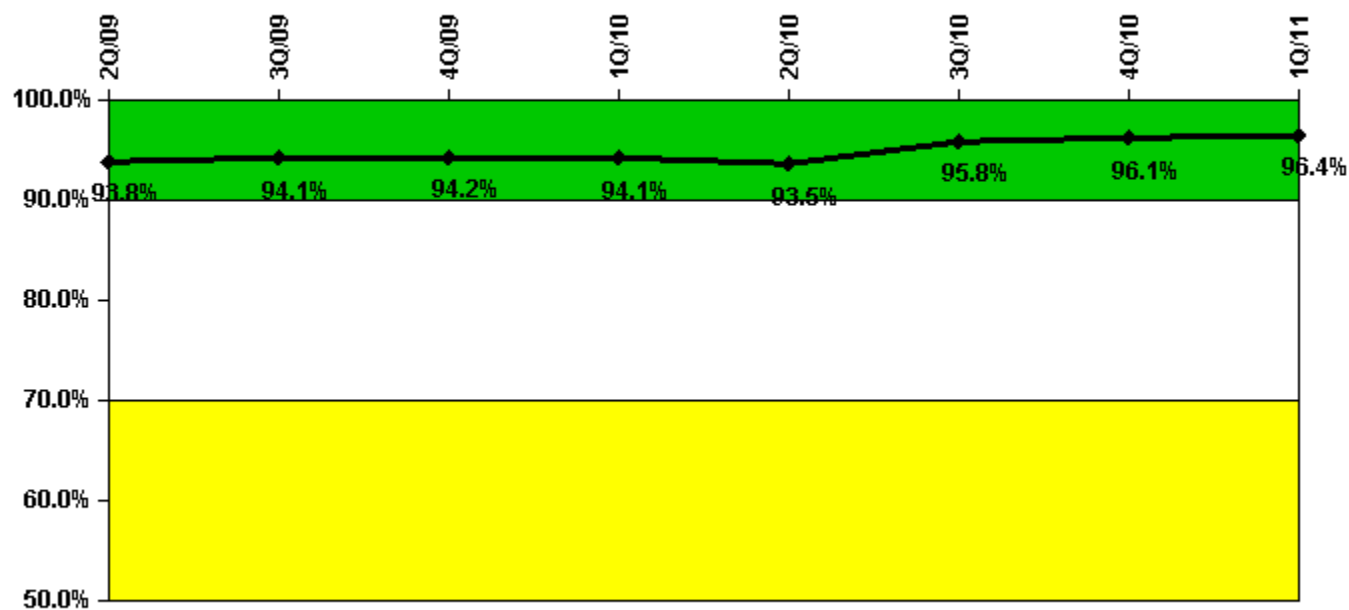
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.380	0.810	0.690	0.290	0.260	0.290	0.480	0.660	0.670	0.760	0.790	0.730
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.8	8.1	6.9	2.9	2.6	2.9	4.8	6.6	6.7	7.6	7.9	7.3
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	0.670	0.790	0.770	0.180	0.390	0.890	1.010	0.310	0.360	0.180	0.170	0.140
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	6.7	7.9	7.7	1.8	3.9	8.9	10.1	3.1	3.6	1.8	1.7	1.4

Licensee Comments: none

Drill/Exercise Performance



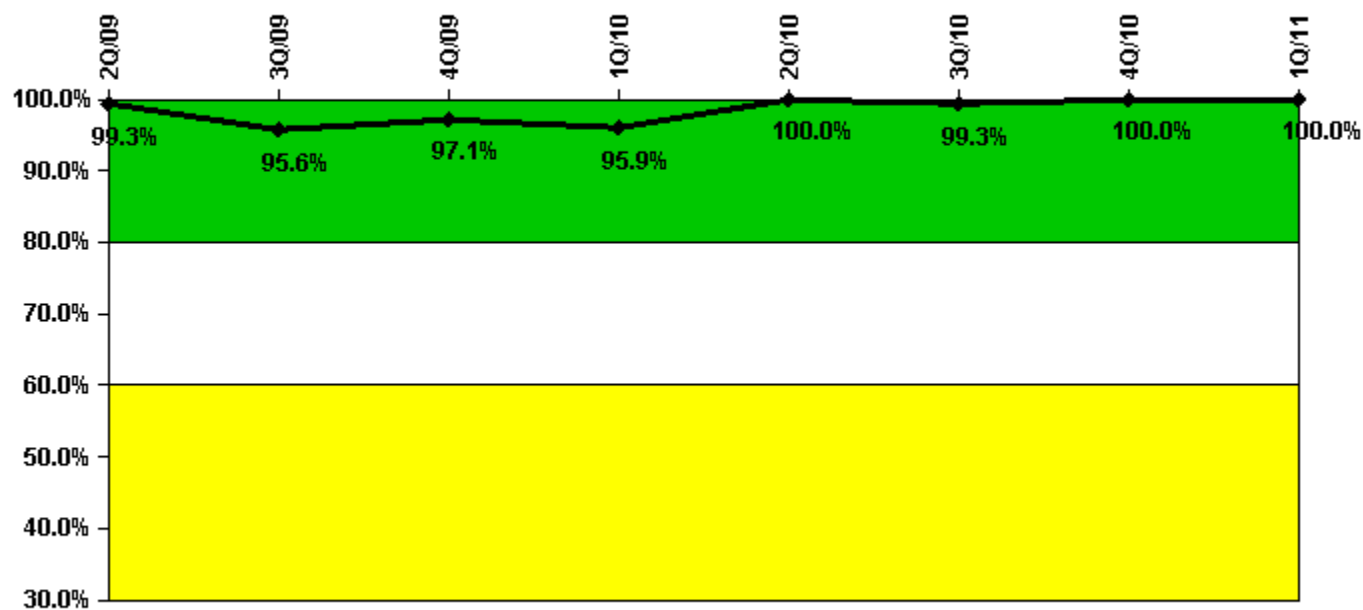
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful opportunities	36.0	20.0	26.0	38.0	33.0	41.0	15.0	31.0
Total opportunities	39.0	21.0	26.0	40.0	35.0	41.0	15.0	32.0
Indicator value	93.8%	94.1%	94.2%	94.1%	93.5%	95.8%	96.1%	96.4%

Licensee Comments: none

ERO Drill Participation



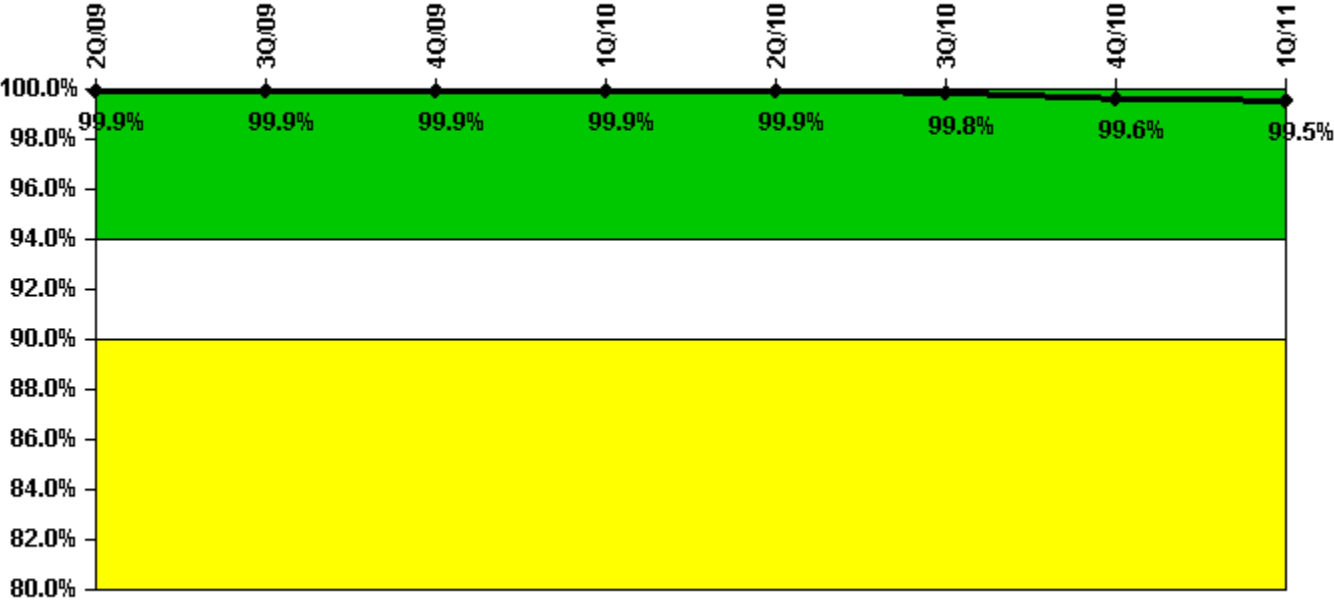
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Participating Key personnel	136.0	130.0	135.0	142.0	145.0	143.0	128.0	132.0
Total Key personnel	137.0	136.0	139.0	148.0	145.0	144.0	128.0	132.0
Indicator value	99.3%	95.6%	97.1%	95.9%	100.0%	99.3%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



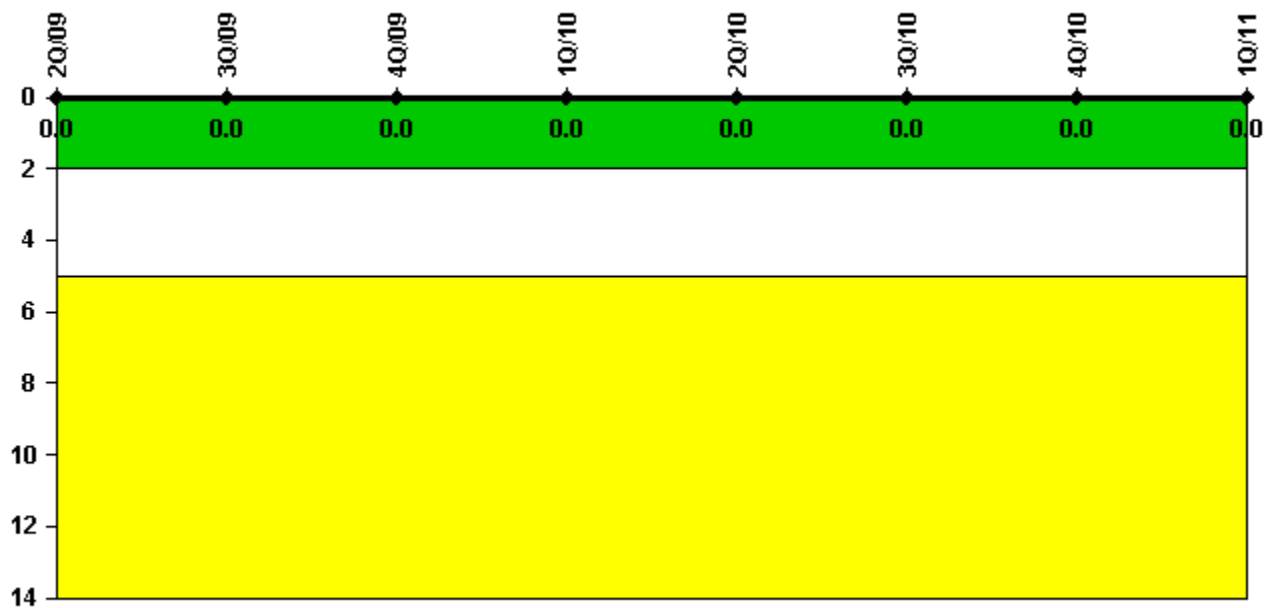
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful siren-tests	475	543	544	476	542	473	540	408
Total sirens-tests	476	544	544	476	544	476	544	408
Indicator value	99.9%	99.9%	99.9%	99.9%	99.9%	99.8%	99.6%	99.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness



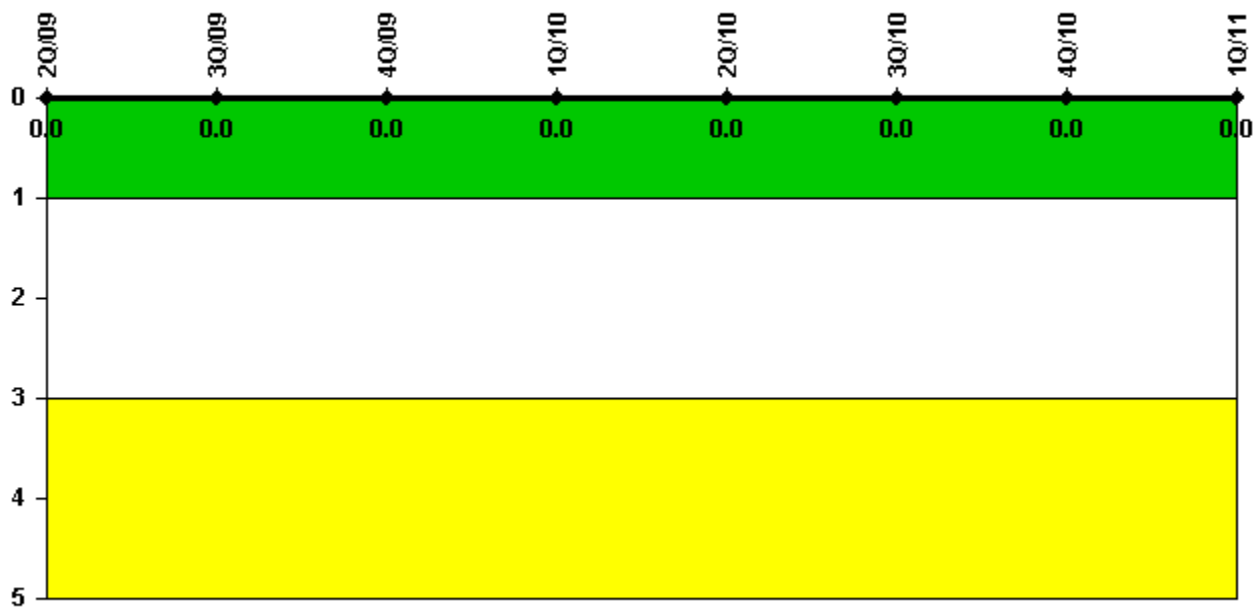
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

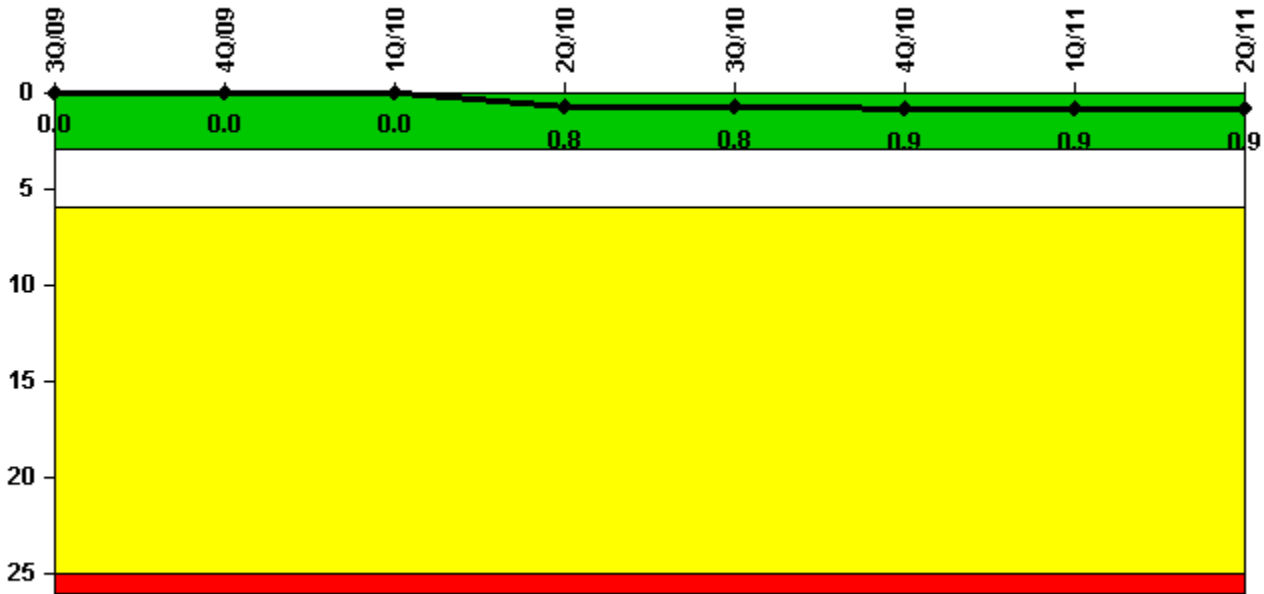
[Security](#) information not publicly available.

Surry 1

2Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



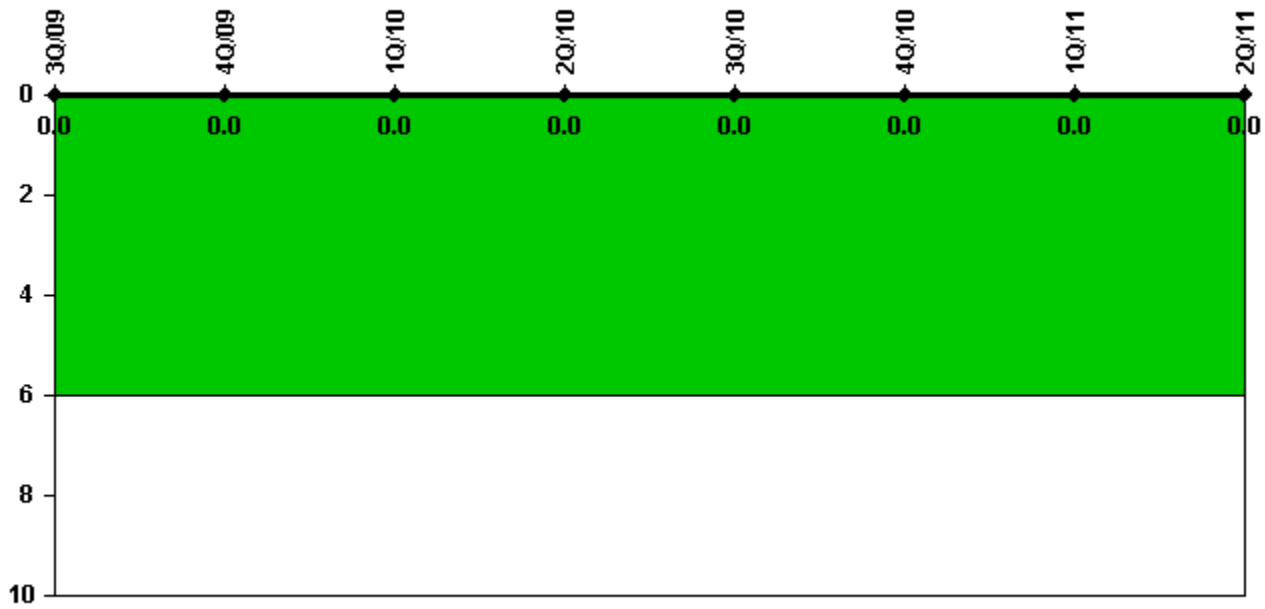
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned scrams	0	0	0	1.0	0	0	0	1.0
Critical hours	2208.0	2209.0	2159.0	2107.0	2208.0	1290.0	2159.0	2027.6
Indicator value	0	0	0	0.8	0.8	0.9	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



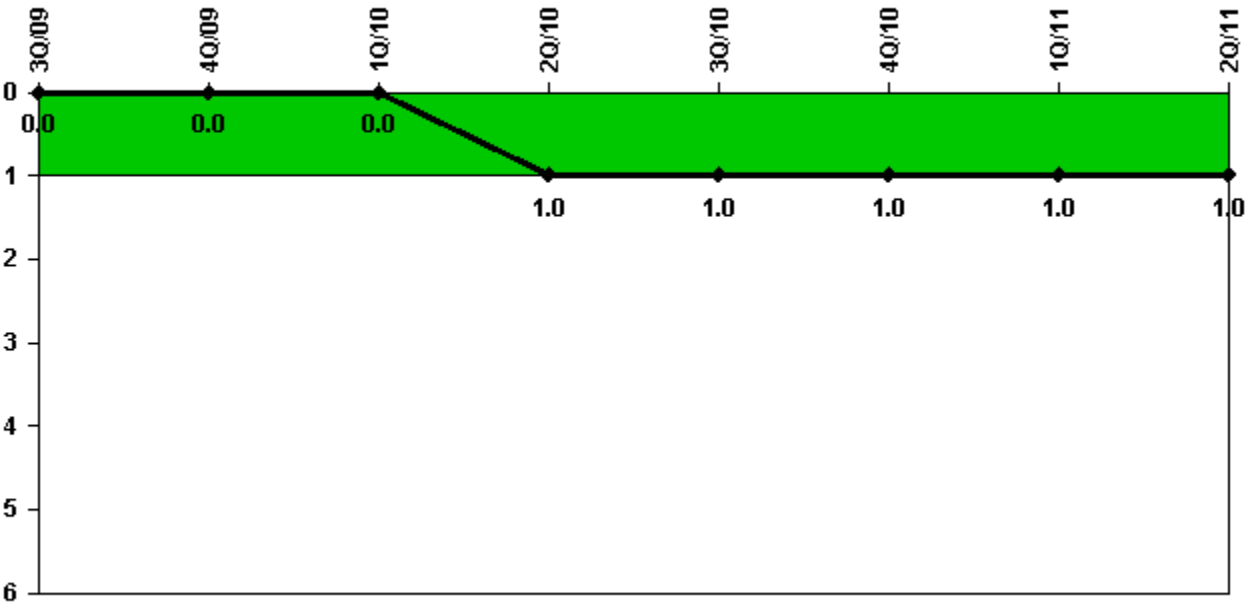
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	2107.0	2208.0	1290.0	2159.0	2027.6
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



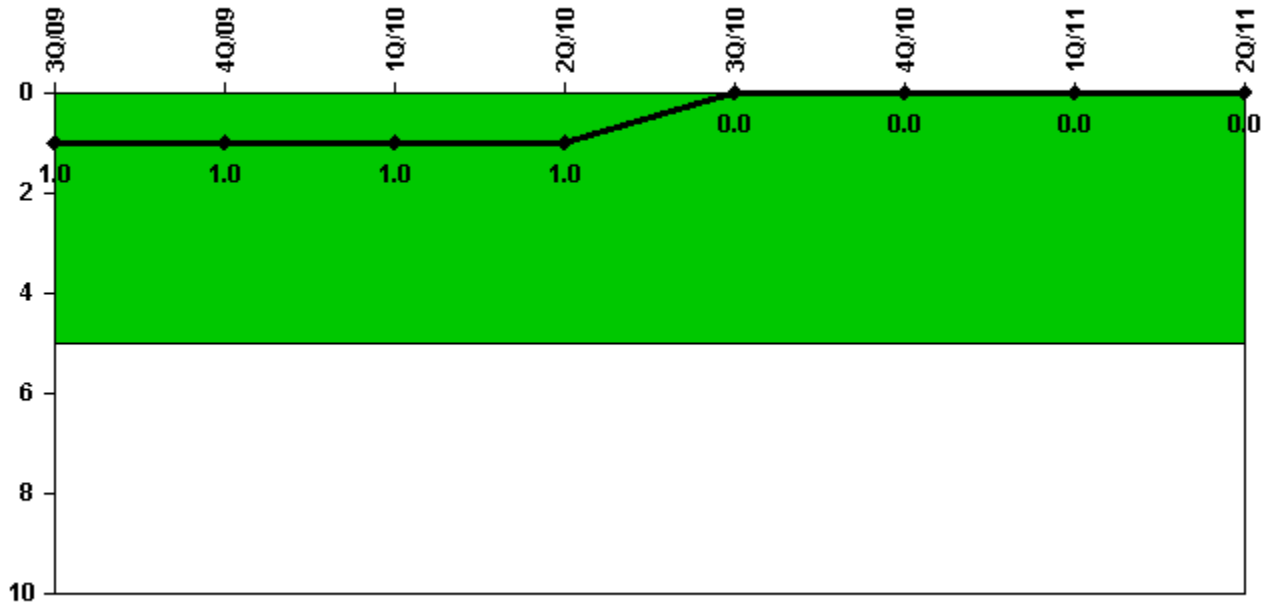
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Scrams with complications	0	0	0	1.0	0	0	0	1.0
Indicator value	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Safety System Functional Failures (PWR)



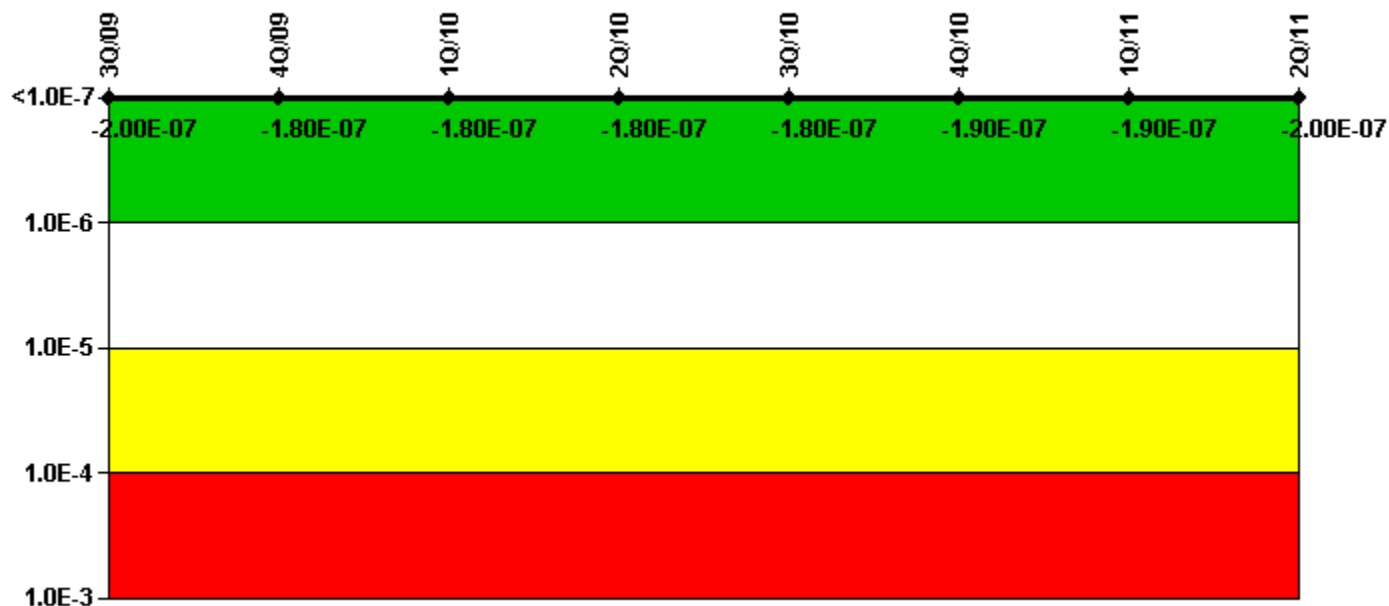
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Safety System Functional Failures	1	0	0	0	0	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	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	-1.37E-08	-1.35E-08	-1.35E-08	-9.41E-09	-1.65E-08	-1.66E-08	-1.66E-08	-1.66E-08
URI (Δ CDF)	-1.86E-07	-1.66E-07	-1.67E-07	-1.71E-07	-1.67E-07	-1.69E-07	-1.70E-07	-1.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.90E-07	-1.90E-07	-2.00E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



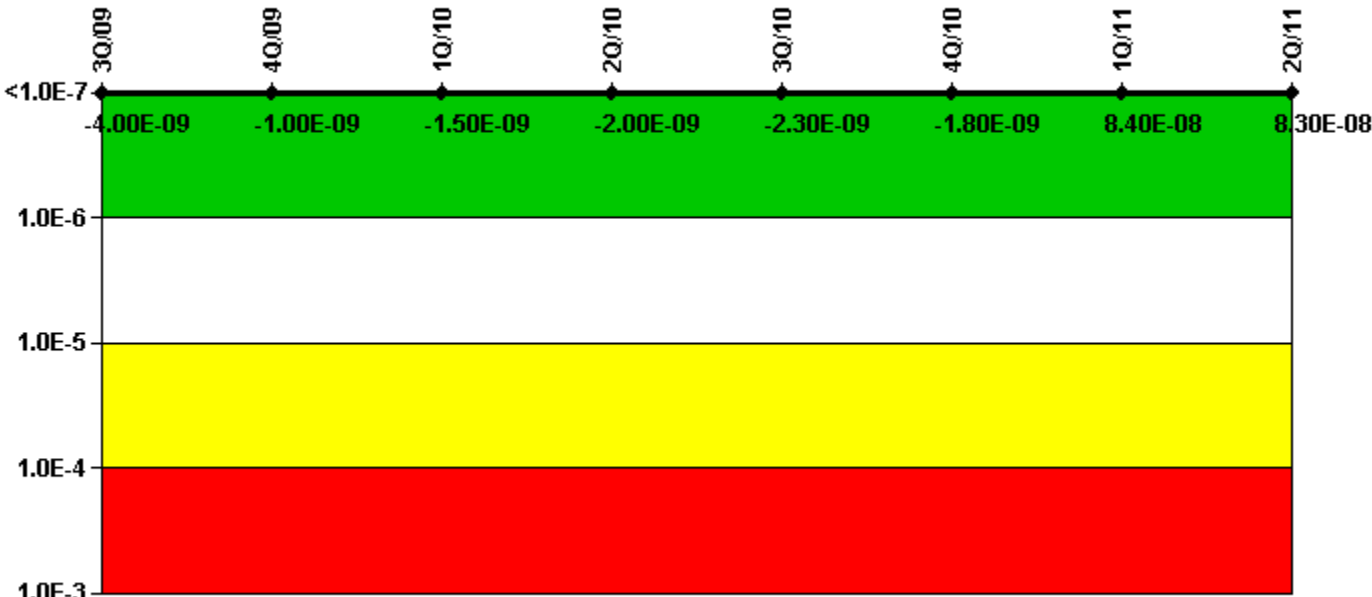
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	-1.30E-09	-7.40E-10	-8.32E-10	-8.32E-10	-8.32E-10	-8.32E-10	-8.32E-10	-8.38E-10
URI (Δ CDF)	-1.60E-08	-1.50E-08	-1.48E-08	-1.50E-08	-1.52E-08	-1.50E-08	-1.50E-08	-1.52E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.73E-08	-1.57E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



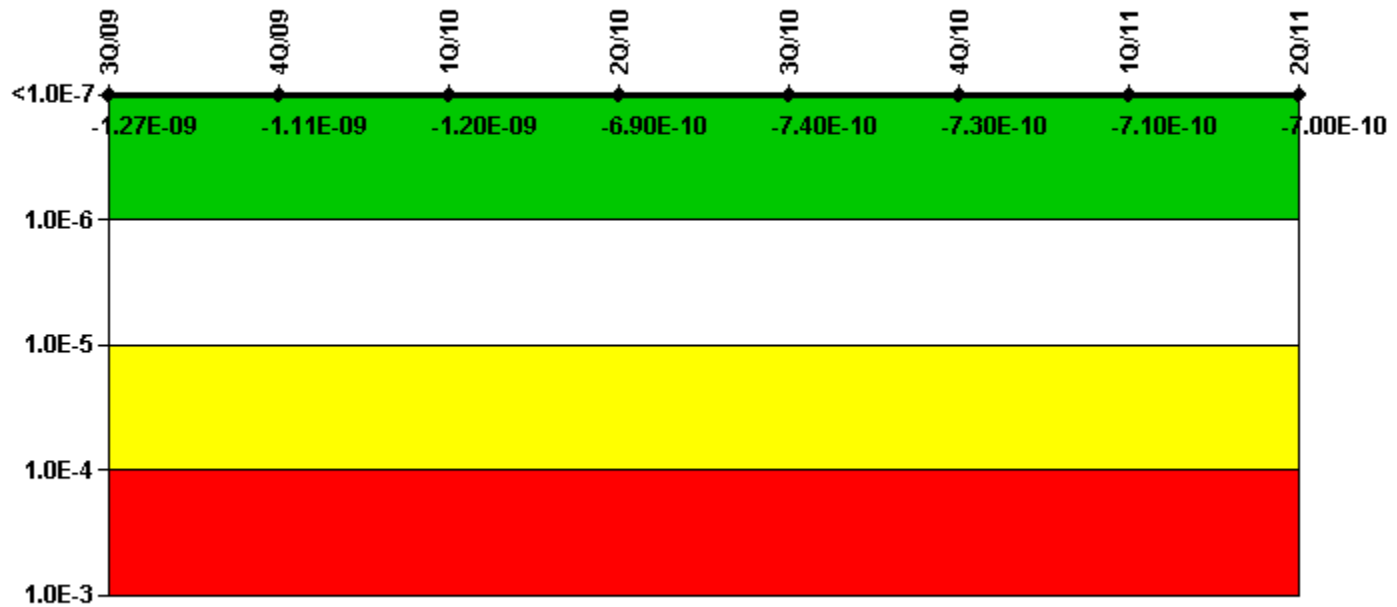
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	1.40E-08	1.40E-08	1.37E-08	1.45E-08	1.36E-08	1.35E-08	1.44E-08	1.51E-08
URI (ΔCDF)	-1.80E-08	-1.50E-08	-1.53E-08	-1.65E-08	-1.59E-08	-1.53E-08	6.97E-08	6.79E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.00E-09	-1.00E-09	-1.50E-09	-2.00E-09	-2.30E-09	-1.80E-09	8.40E-08	8.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



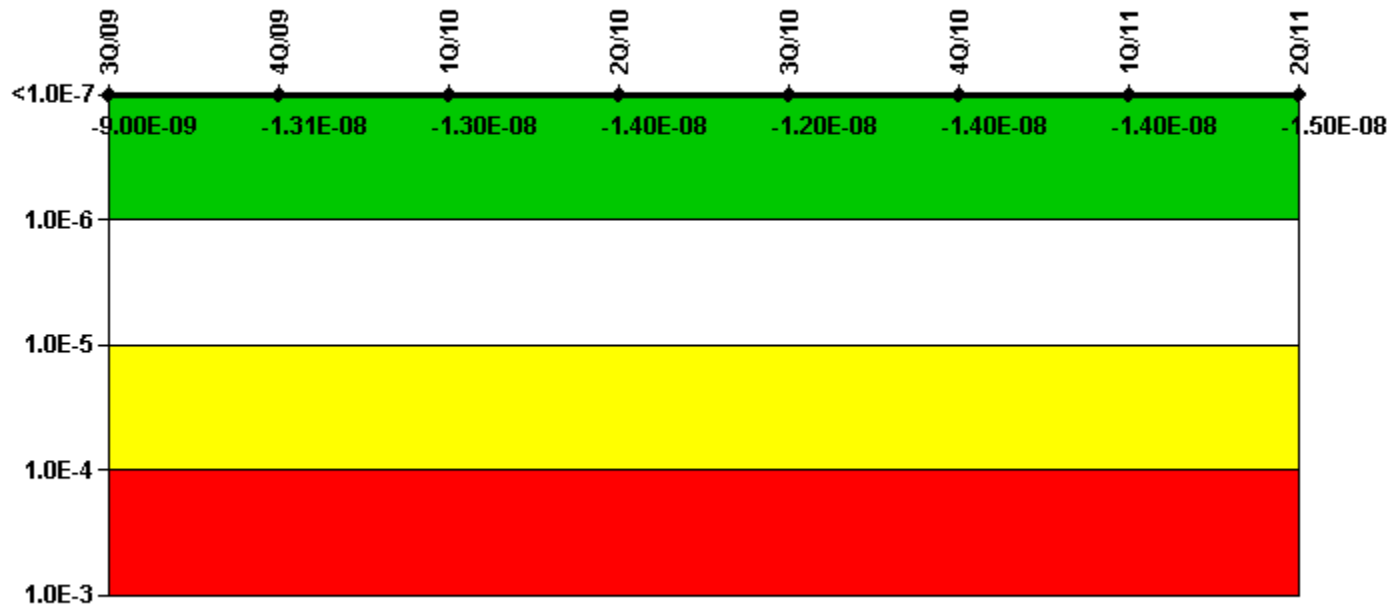
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	-1.70E-10	-1.70E-10	-2.70E-10	2.71E-10	2.14E-10	2.07E-10	2.25E-10	2.34E-10
URI (Δ CDF)	-1.10E-09	-9.40E-10	-9.10E-10	-9.57E-10	-9.57E-10	-9.35E-10	-9.35E-10	-9.35E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.27E-09	-1.11E-09	-1.20E-09	-6.90E-10	-7.40E-10	-7.30E-10	-7.10E-10	-7.00E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



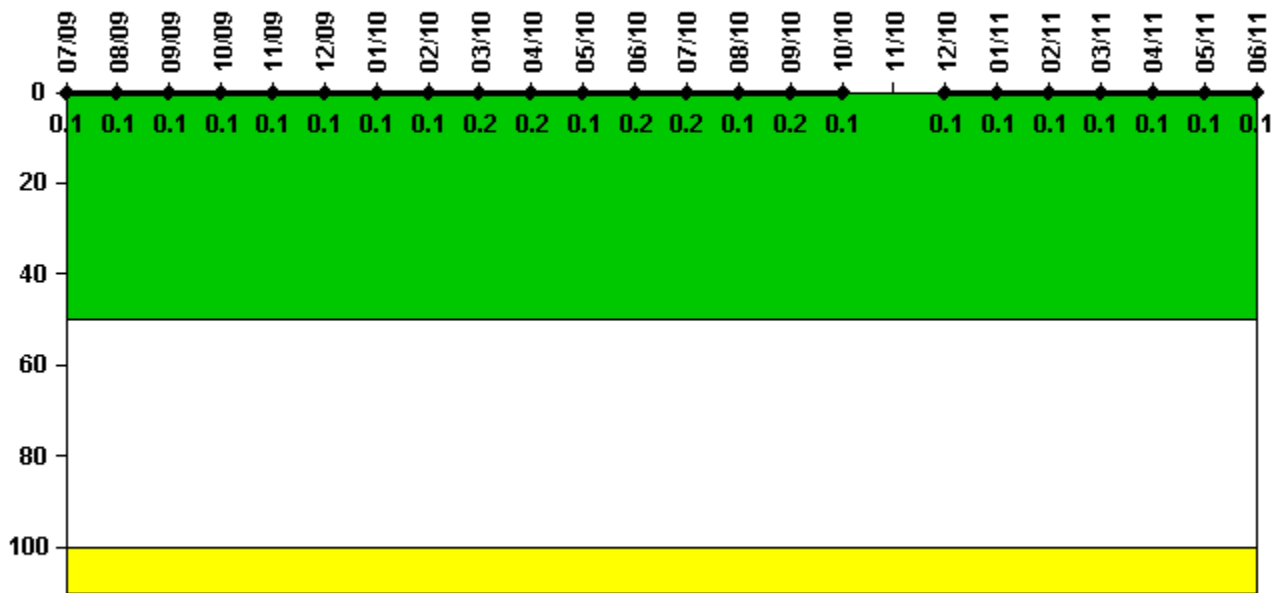
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	1.10E-08	6.90E-09	6.88E-09	6.40E-09	7.35E-09	5.24E-09	5.56E-09	5.83E-09
URI (ΔCDF)	-2.00E-08	-2.00E-08	-1.98E-08	-2.01E-08	-1.94E-08	-1.97E-08	-1.97E-08	-2.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.00E-09	-1.31E-08	-1.30E-08	-1.40E-08	-1.20E-08	-1.40E-08	-1.40E-08	-1.50E-08

Licensee Comments: none

Reactor Coolant System Activity



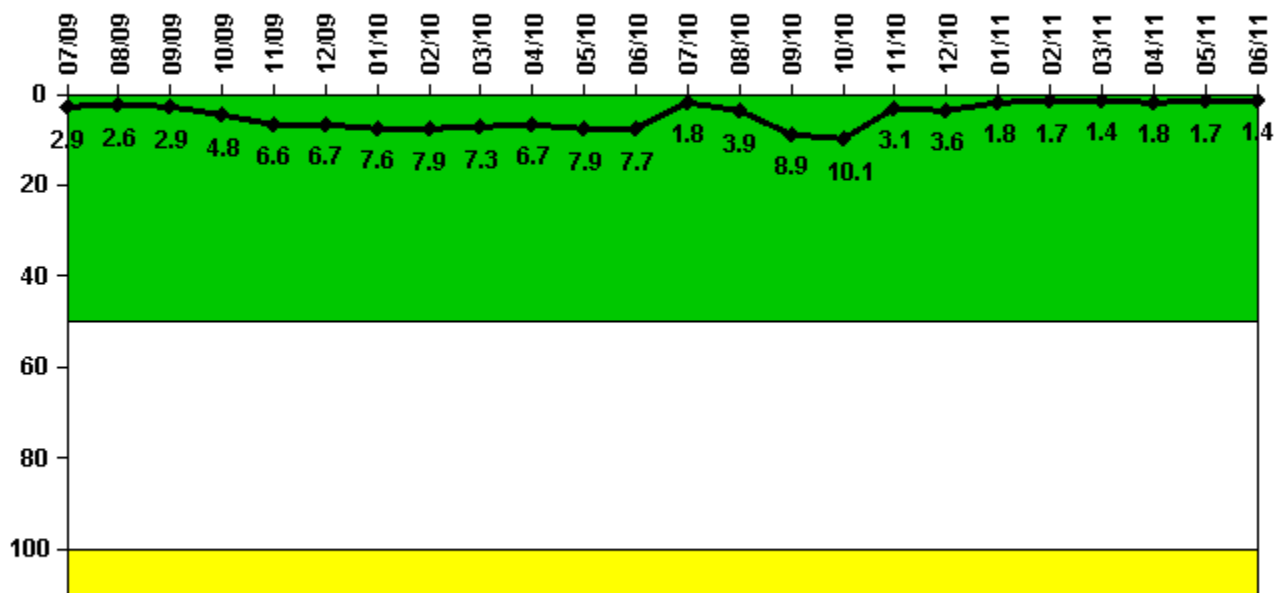
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum activity	0.000750	0.000796	0.000851	0.000981	0.000996	0.001130	0.001250	0.001270	0.001720	0.001550	0.001370	0.001510
Technical specification limit	1.0	1.0	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	0.1	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	0.001550	0.001420	0.002170	0.001350	N/A	0.000958	0.001130	0.000738	0.000849	0.000756	0.000998	0.000949
Technical specification limit	1.0	1.0	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	0.1	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



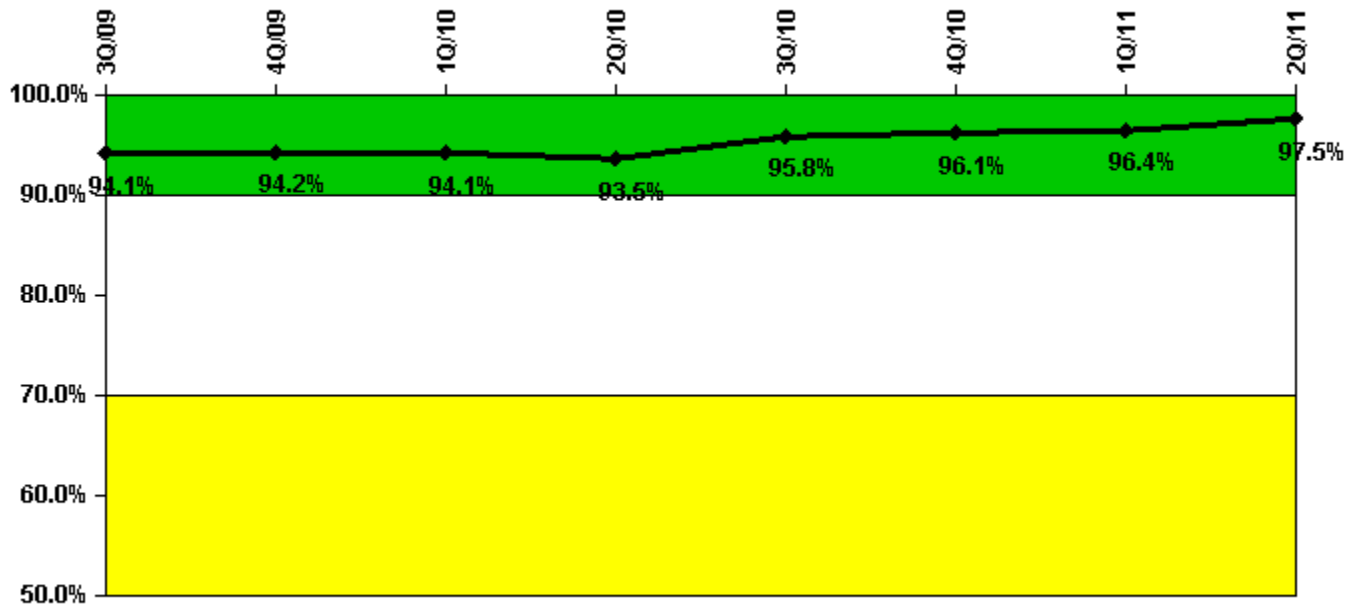
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum leakage	0.290	0.260	0.290	0.480	0.660	0.670	0.760	0.790	0.730	0.670	0.790	0.770
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.9	2.6	2.9	4.8	6.6	6.7	7.6	7.9	7.3	6.7	7.9	7.7
Reactor Coolant System Leakage	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum leakage	0.180	0.390	0.890	1.010	0.310	0.360	0.180	0.170	0.140	0.180	0.170	0.140
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.8	3.9	8.9	10.1	3.1	3.6	1.8	1.7	1.4	1.8	1.7	1.4

Licensee Comments: none

Drill/Exercise Performance



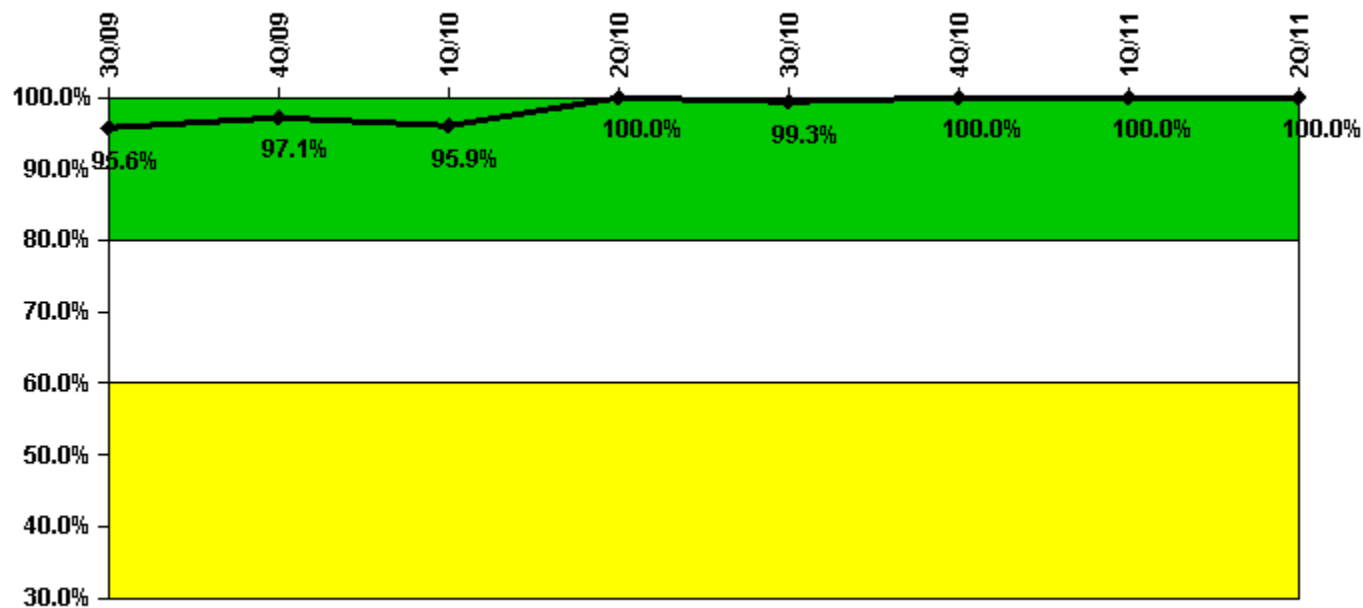
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful opportunities	20.0	26.0	38.0	33.0	41.0	15.0	31.0	27.0
Total opportunities	21.0	26.0	40.0	35.0	41.0	15.0	32.0	27.0
Indicator value	94.1%	94.2%	94.1%	93.5%	95.8%	96.1%	96.4%	97.5%

Licensee Comments: none

ERO Drill Participation



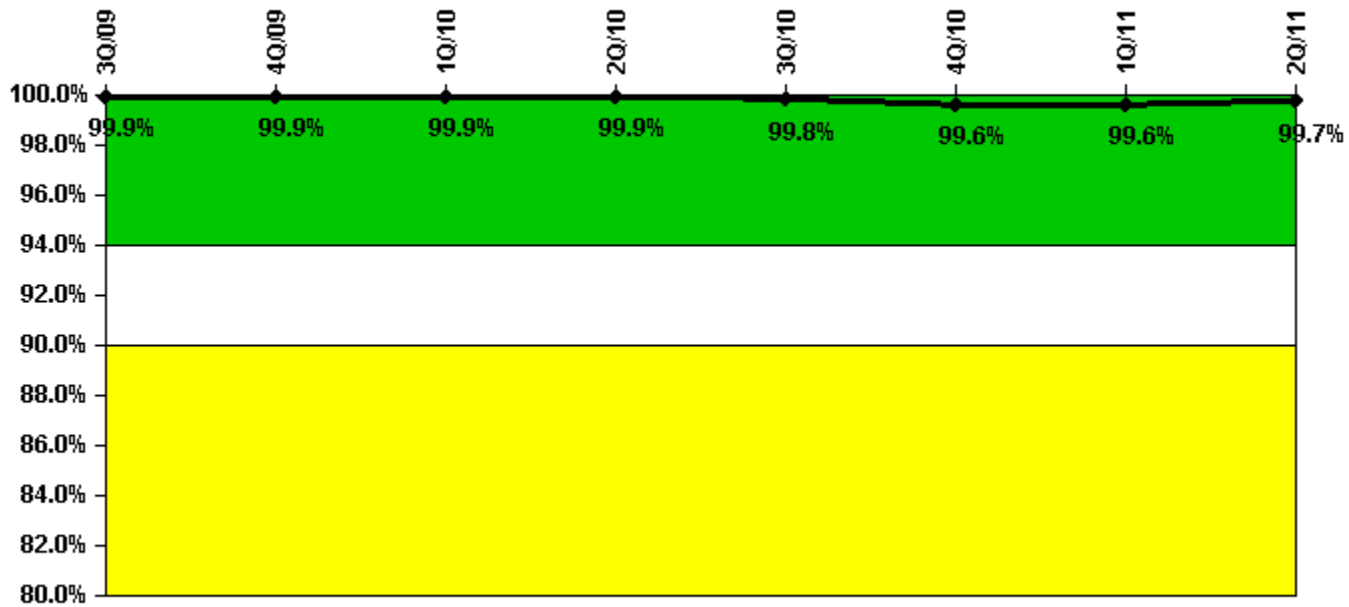
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Participating Key personnel	130.0	135.0	142.0	145.0	143.0	128.0	132.0	139.0
Total Key personnel	136.0	139.0	148.0	145.0	144.0	128.0	132.0	139.0
Indicator value	95.6%	97.1%	95.9%	100.0%	99.3%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

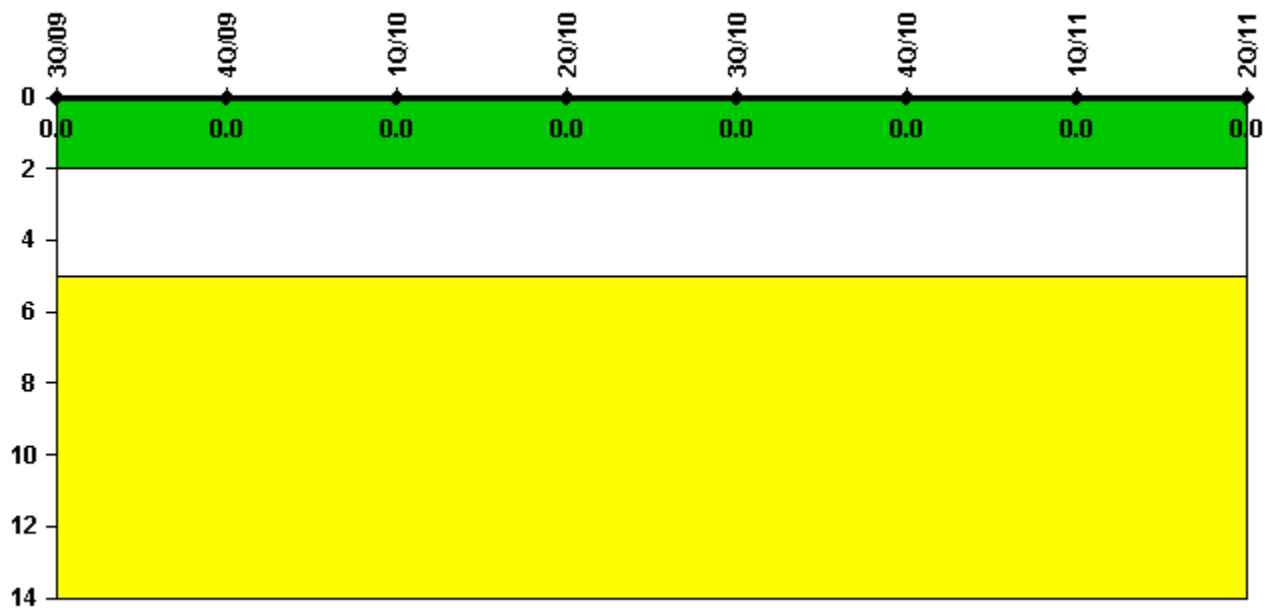
Notes

Alert & Notification System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful siren-tests	543	544	476	542	473	540	476	544
Total sirens-tests	544	544	476	544	476	544	476	544
Indicator value	99.9%	99.9%	99.9%	99.9%	99.8%	99.6%	99.6%	99.7%

Licensee Comments:

2Q/11: A self-assessment identified a siren activation test was not counted in March 2011. Historical data was corrected with no change in color.

Occupational Exposure Control Effectiveness



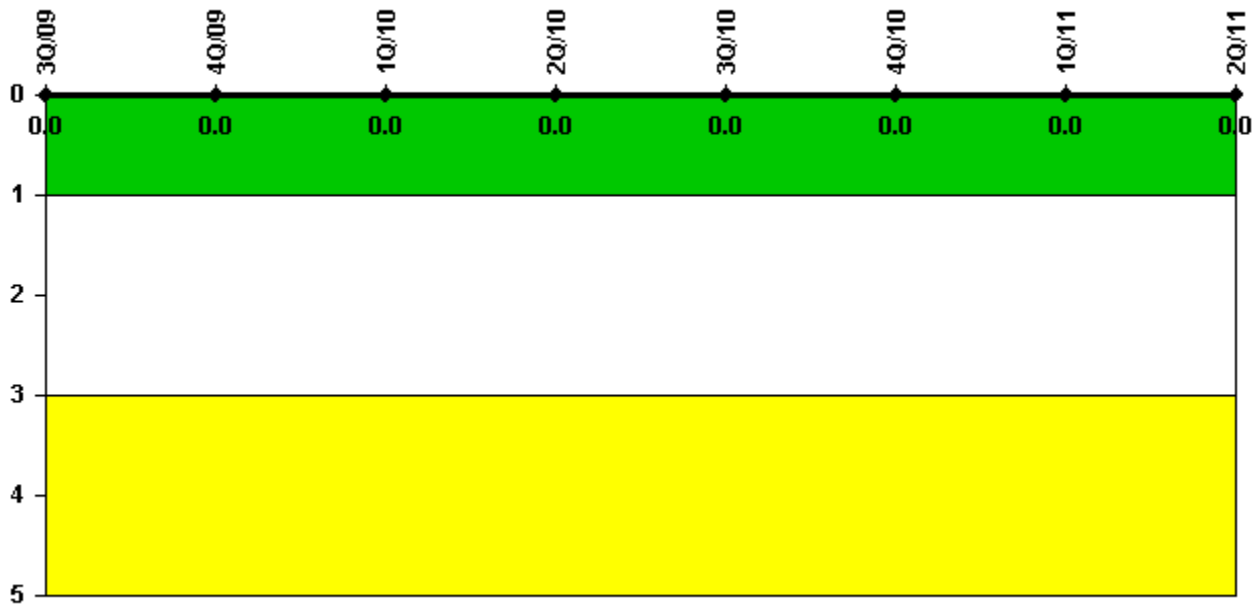
Thresholds: White > 2.0 Yellow > 5.0

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.

Surry 1

3Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



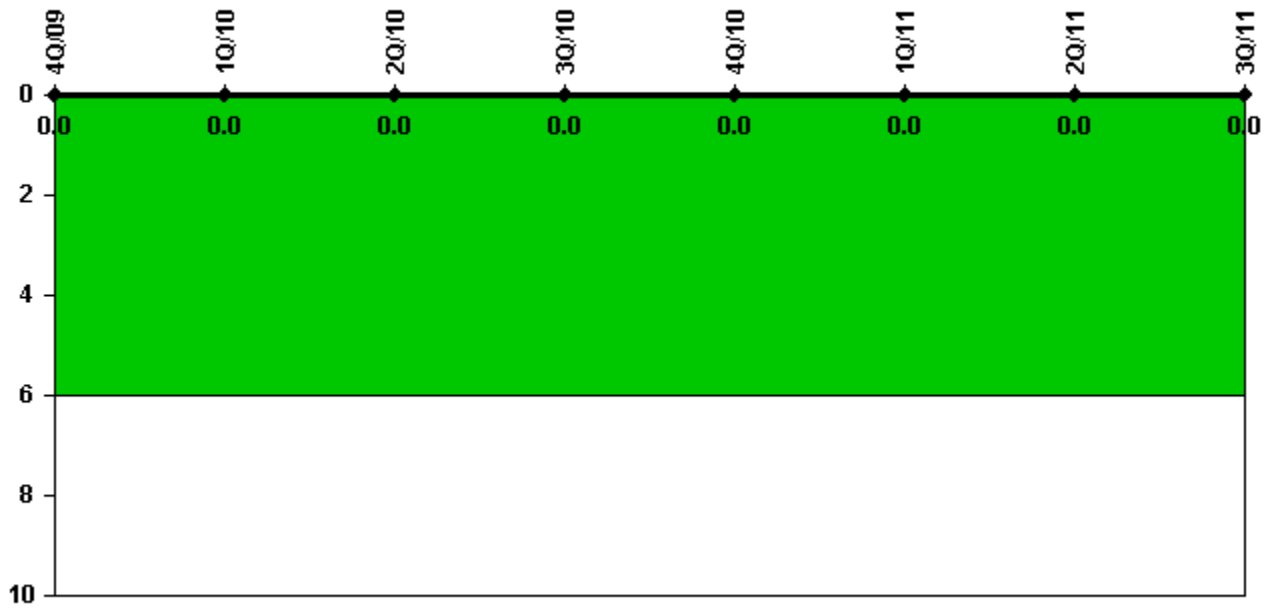
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned scrams	0	0	1.0	0	0	0	1.0	0
Critical hours	2209.0	2159.0	2107.0	2208.0	1290.0	2159.0	2027.6	2208.0
Indicator value	0	0	0.8	0.8	0.9	0.9	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



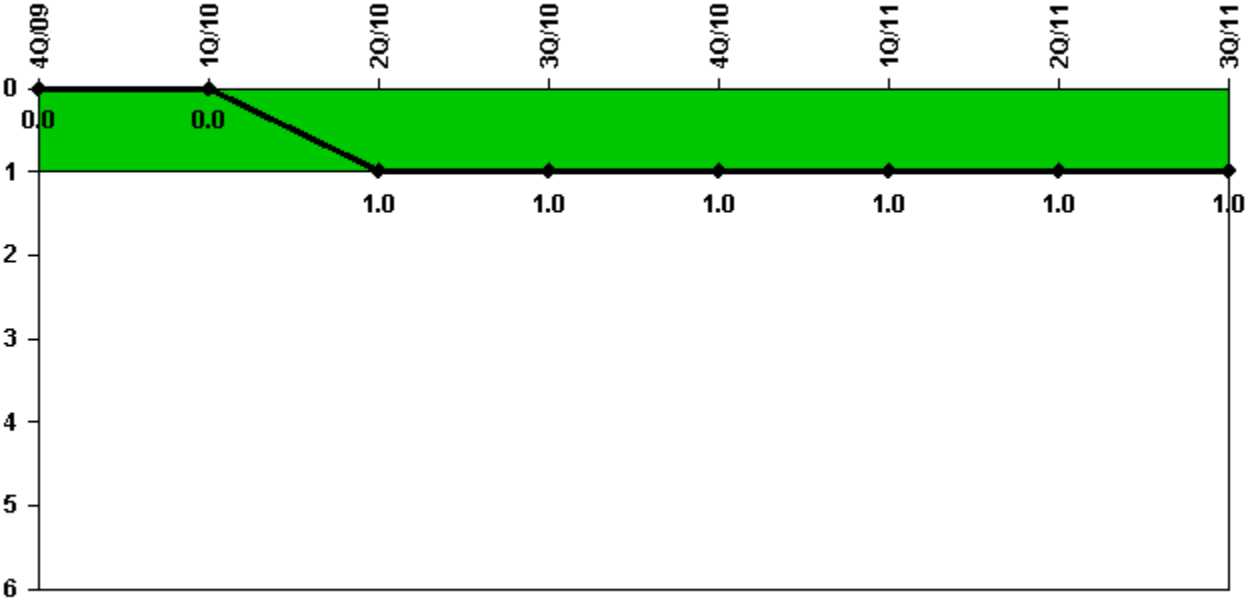
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	2107.0	2208.0	1290.0	2159.0	2027.6	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



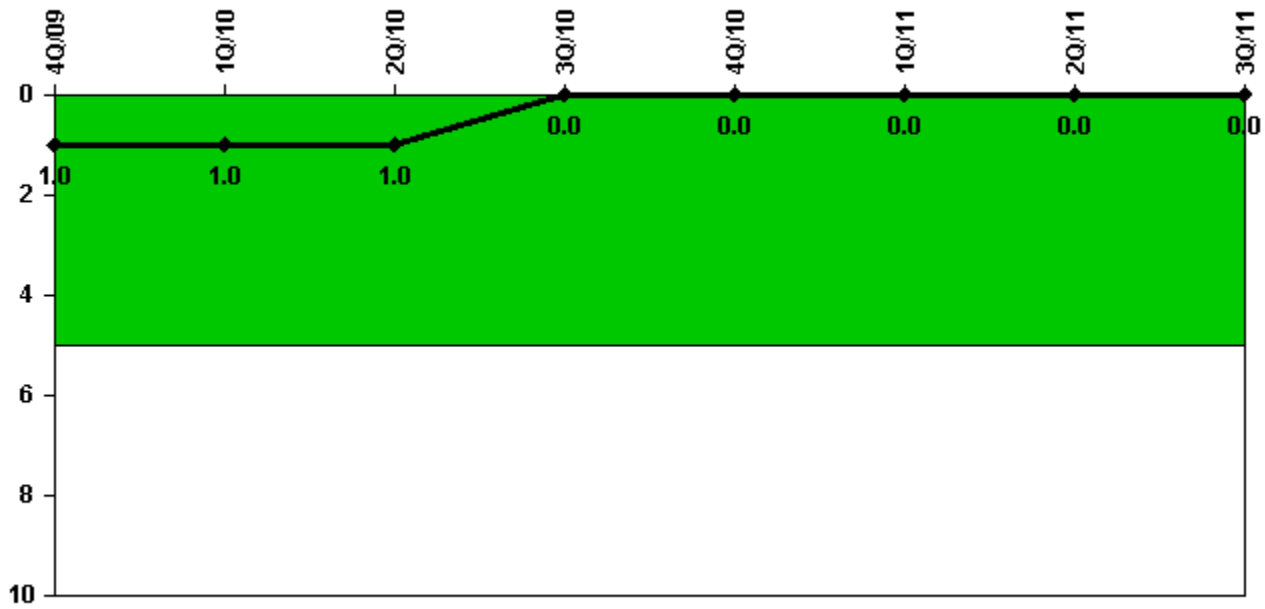
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Scrams with complications	0	0	1.0	0	0	0	1.0	0
Indicator value	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Safety System Functional Failures (PWR)



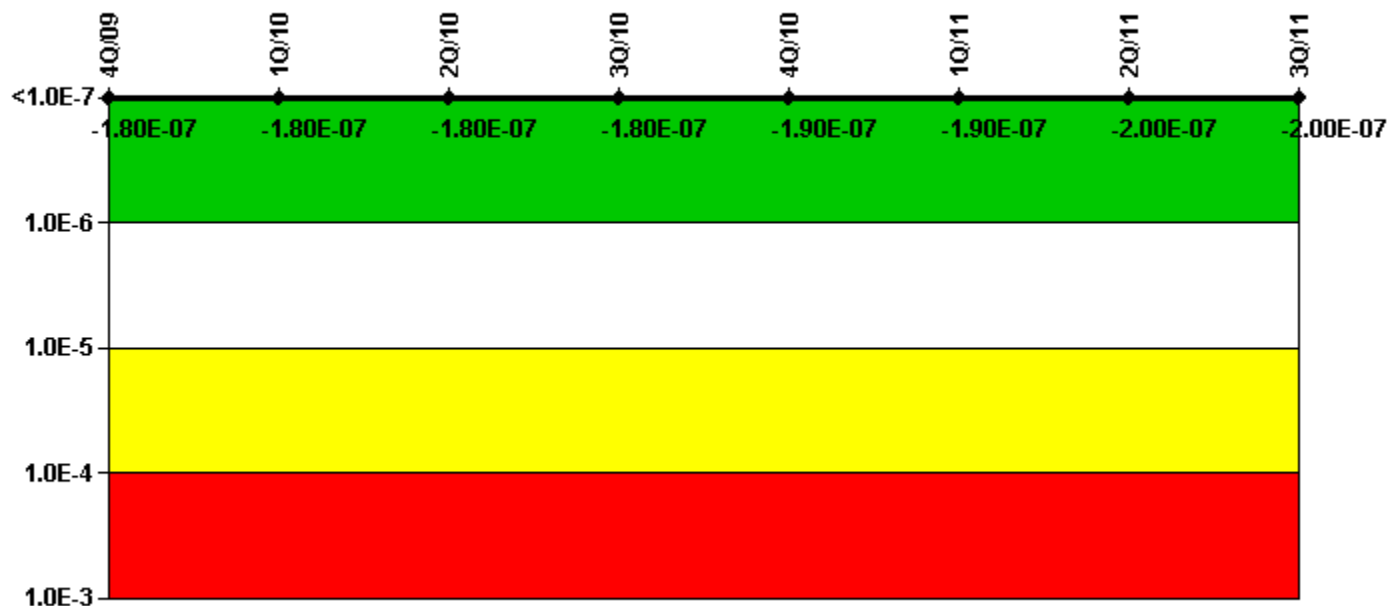
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



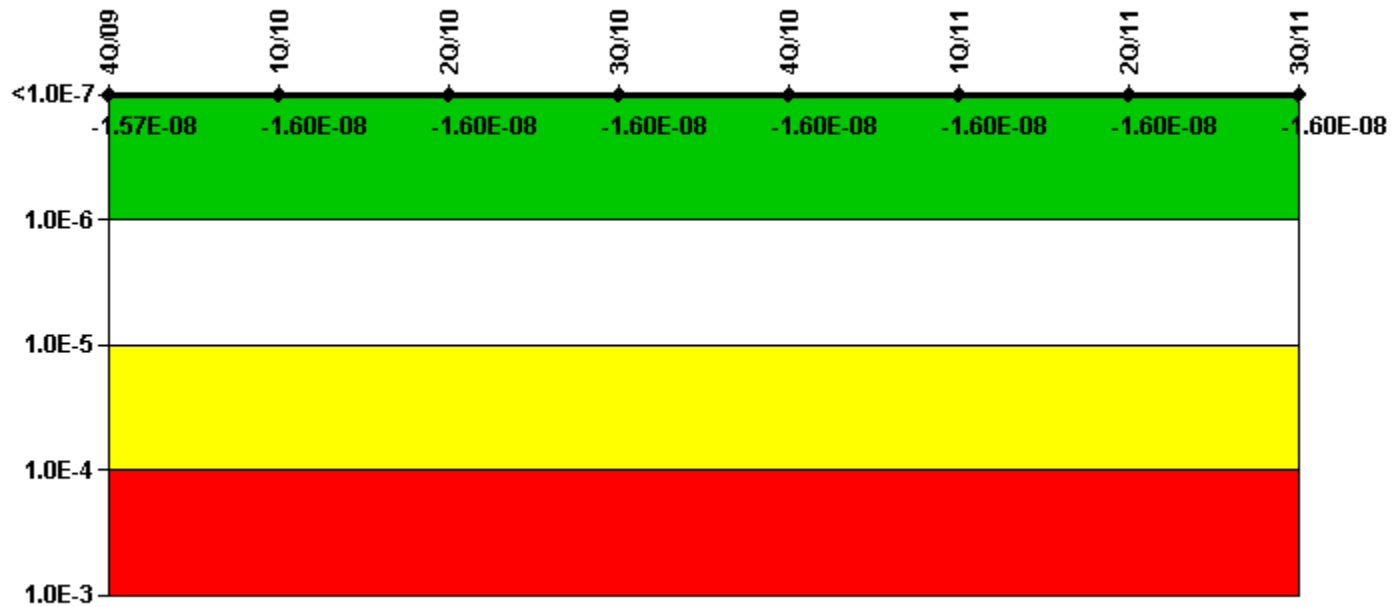
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	-1.35E-08	-1.35E-08	-9.41E-09	-1.65E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08
URI (Δ CDF)	-1.66E-07	-1.67E-07	-1.71E-07	-1.67E-07	-1.69E-07	-1.70E-07	-1.80E-07	-1.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.90E-07	-1.90E-07	-2.00E-07	-2.00E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



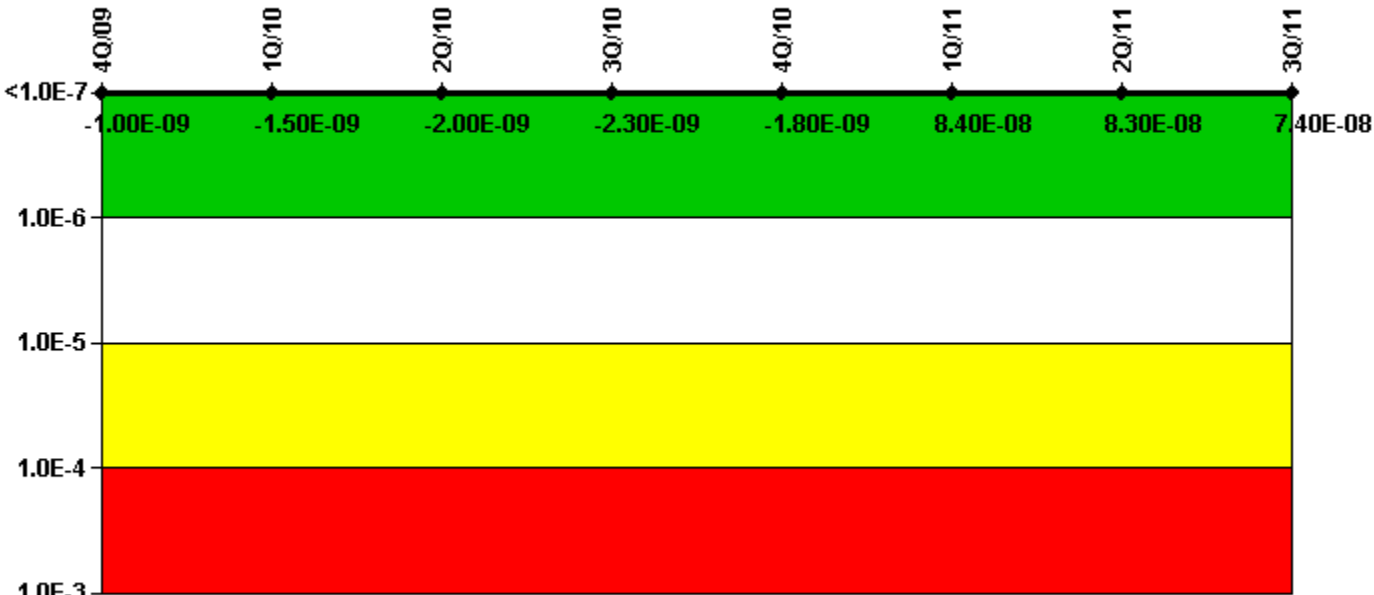
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	-7.40E-10	-8.32E-10	-8.32E-10	-8.32E-10	-8.32E-10	-8.32E-10	-8.38E-10	-8.38E-10
URI (Δ CDF)	-1.50E-08	-1.48E-08	-1.50E-08	-1.52E-08	-1.50E-08	-1.50E-08	-1.52E-08	-1.52E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.57E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



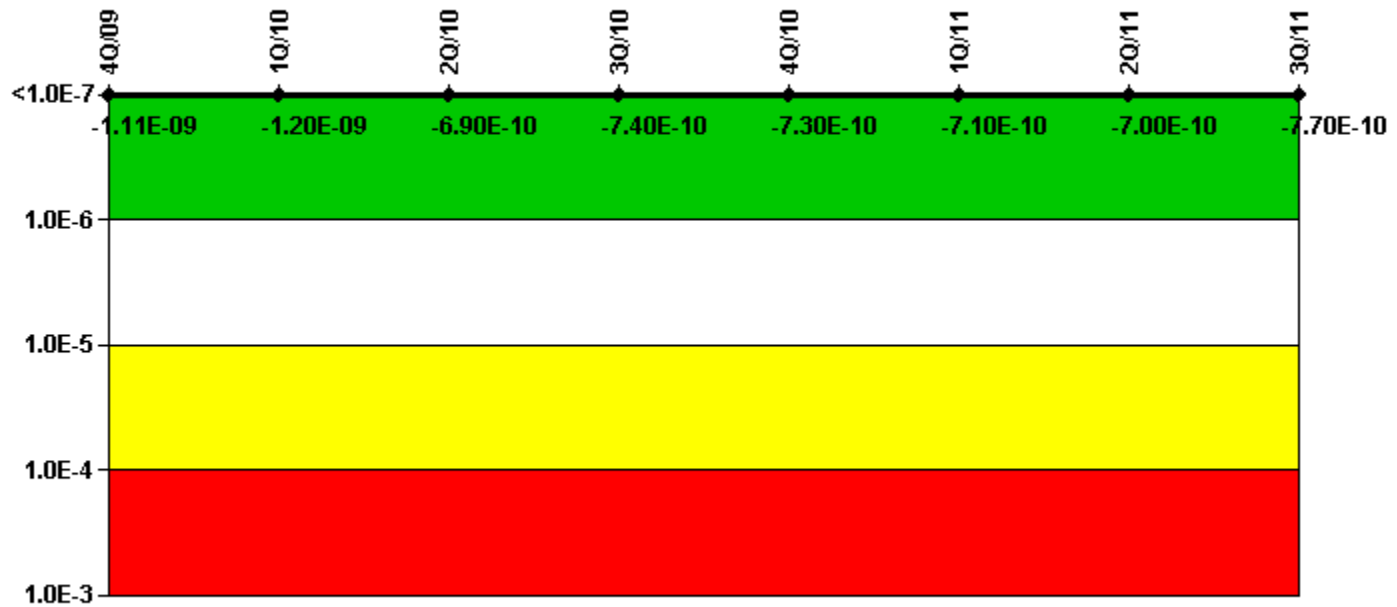
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	1.40E-08	1.37E-08	1.45E-08	1.36E-08	1.35E-08	1.44E-08	1.51E-08	6.57E-09
URI (ΔCDF)	-1.50E-08	-1.53E-08	-1.65E-08	-1.59E-08	-1.53E-08	6.97E-08	6.79E-08	6.79E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.00E-09	-1.50E-09	-2.00E-09	-2.30E-09	-1.80E-09	8.40E-08	8.30E-08	7.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



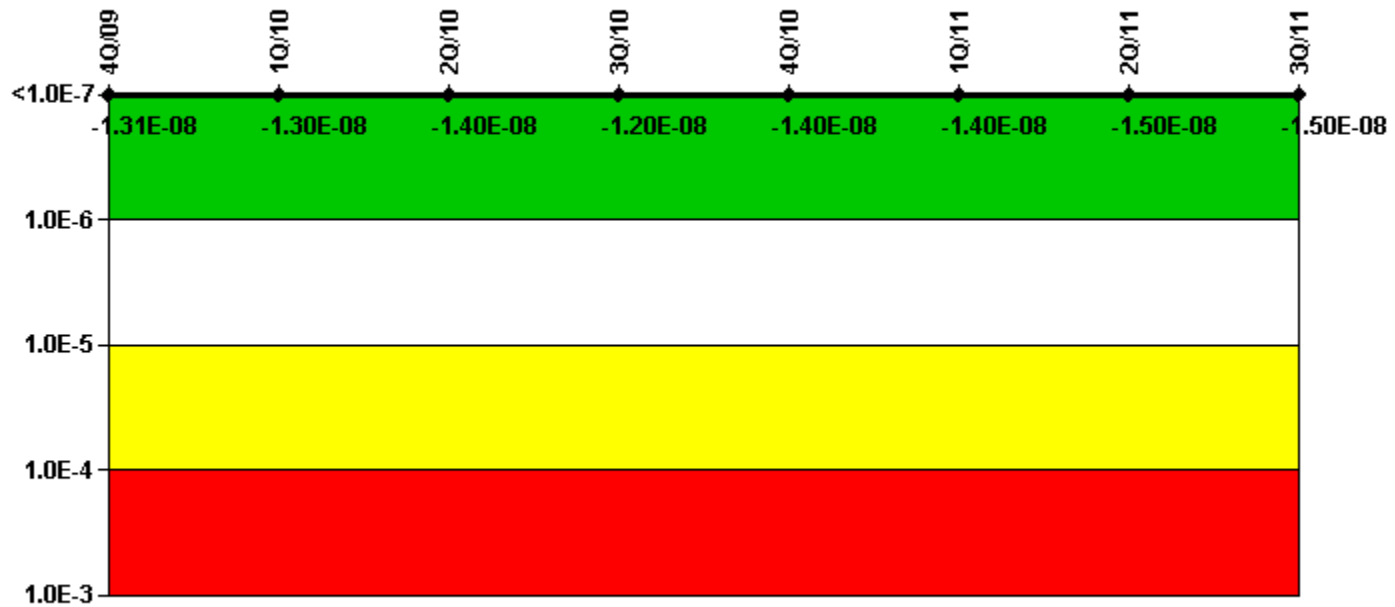
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	-1.70E-10	-2.70E-10	2.71E-10	2.14E-10	2.07E-10	2.25E-10	2.34E-10	1.68E-10
URI (Δ CDF)	-9.40E-10	-9.10E-10	-9.57E-10	-9.57E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.11E-09	-1.20E-09	-6.90E-10	-7.40E-10	-7.30E-10	-7.10E-10	-7.00E-10	-7.70E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



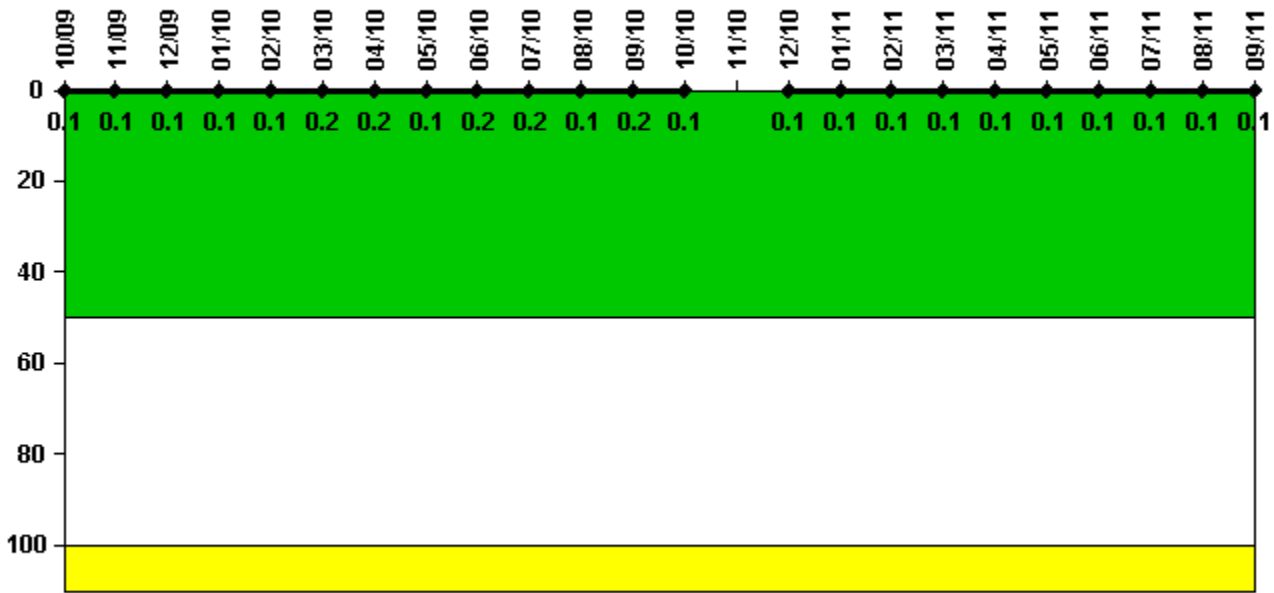
Thresholds: White $> 1.00E-6$ Yellow $> 1.00E-5$ Red $> 1.00E-4$

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	6.90E-09	6.88E-09	6.40E-09	7.35E-09	5.24E-09	5.56E-09	5.83E-09	5.39E-09
URI (Δ CDF)	-2.00E-08	-1.98E-08	-2.01E-08	-1.94E-08	-1.97E-08	-1.97E-08	-2.04E-08	-2.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.31E-08	-1.30E-08	-1.40E-08	-1.20E-08	-1.40E-08	-1.40E-08	-1.50E-08	-1.50E-08

Licensee Comments: none

Reactor Coolant System Activity



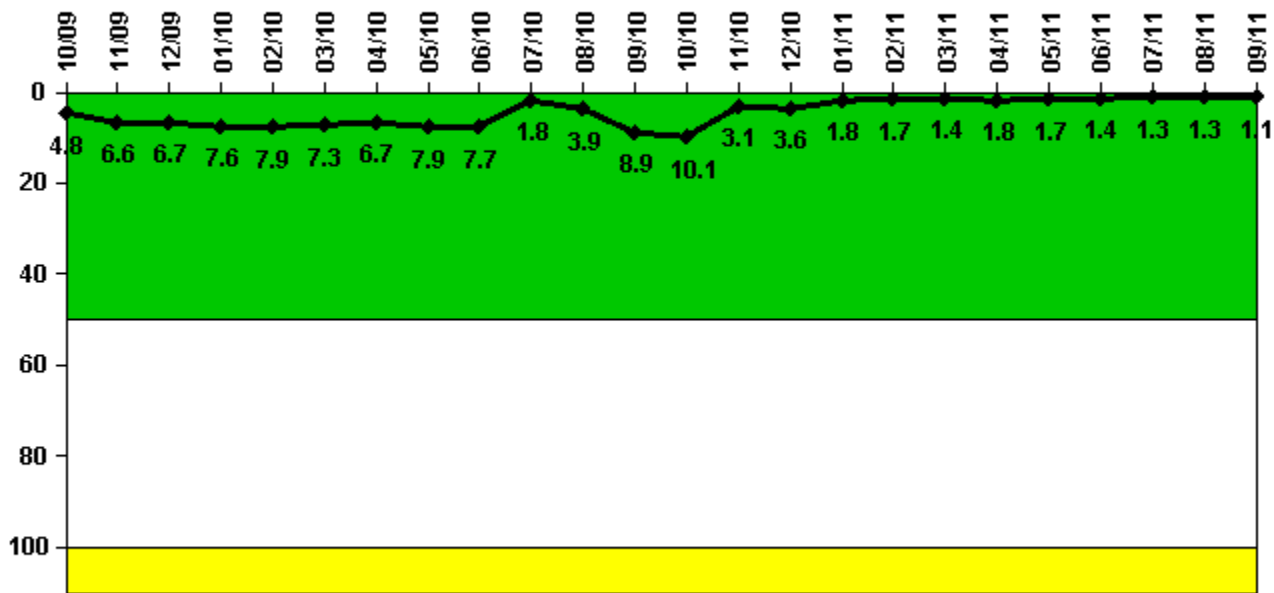
Thresholds: White > 50.0 Yellow > 100.0

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	0.000981	0.000996	0.001130	0.001250	0.001270	0.001720	0.001550	0.001370	0.001510	0.001550	0.001420	0.002170
Technical specification limit	1.0	1.0	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	0.1	0.2	0.2	0.1	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	0.001350	N/A	0.000958	0.001130	0.000738	0.000849	0.000756	0.000998	0.000949	0.000985	0.000998	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	N/A	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



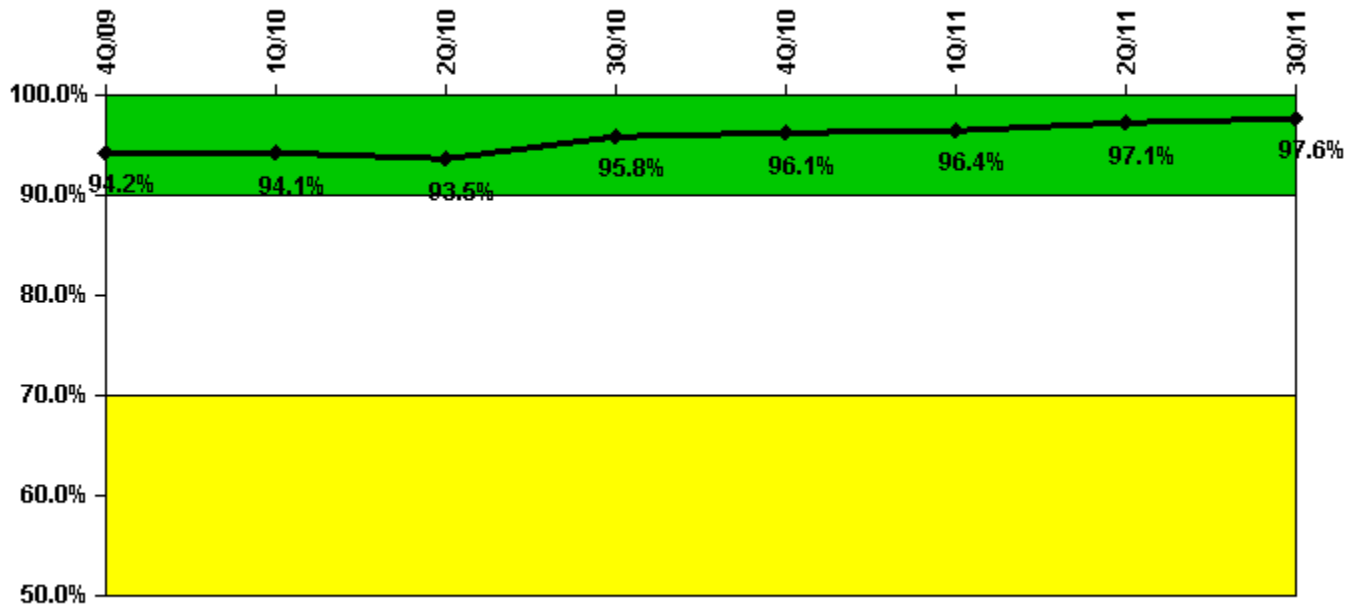
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.480	0.660	0.670	0.760	0.790	0.730	0.670	0.790	0.770	0.180	0.390	0.890
Technical specification limit	10.0	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	6.6	6.7	7.6	7.9	7.3	6.7	7.9	7.7	1.8	3.9	8.9
Reactor Coolant System Leakage	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum leakage	1.010	0.310	0.360	0.180	0.170	0.140	0.180	0.170	0.140	0.130	0.130	0.110
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	10.1	3.1	3.6	1.8	1.7	1.4	1.8	1.7	1.4	1.3	1.3	1.1

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

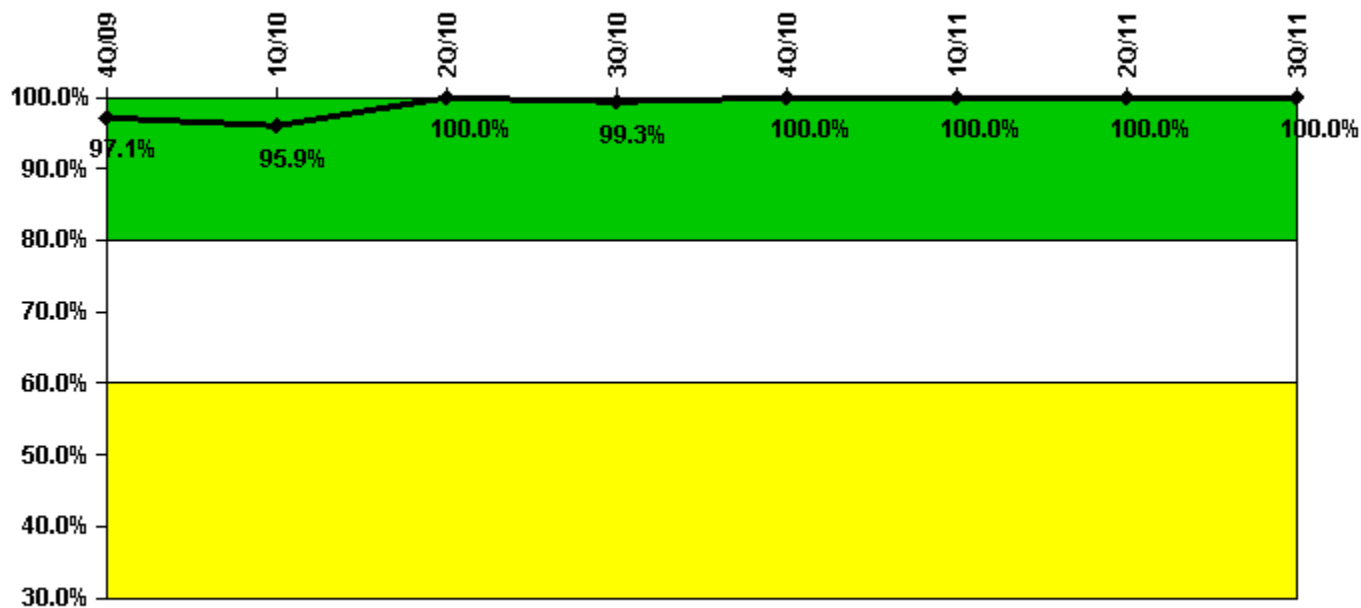
Notes

Drill/Exercise Performance	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful opportunities	26.0	38.0	33.0	41.0	15.0	31.0	27.0	31.0
Total opportunities	26.0	40.0	35.0	41.0	15.0	32.0	28.0	31.0
Indicator value	94.2%	94.1%	93.5%	95.8%	96.1%	96.4%	97.1%	97.6%

Licensee Comments:

3Q/11: An NRC assessment determined a missed classification occurred in June 2011. Historical data was corrected with no change in color.

ERO Drill Participation



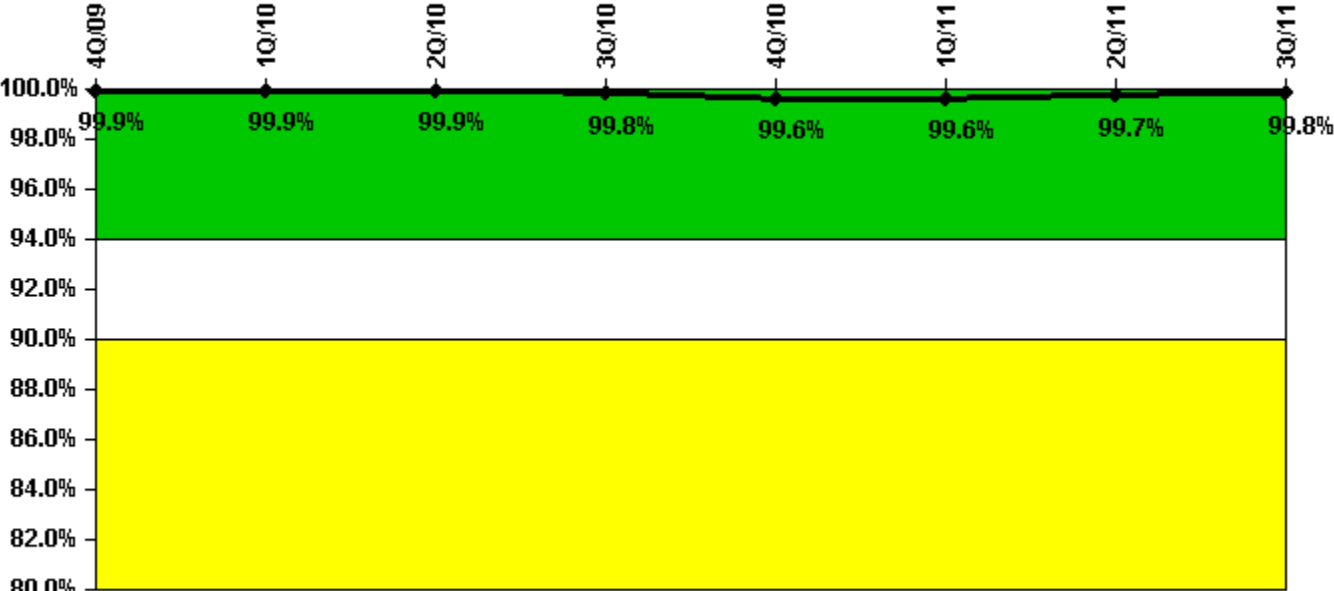
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Participating Key personnel	135.0	142.0	145.0	143.0	128.0	132.0	139.0	138.0
Total Key personnel	139.0	148.0	145.0	144.0	128.0	132.0	139.0	138.0
Indicator value	97.1%	95.9%	100.0%	99.3%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



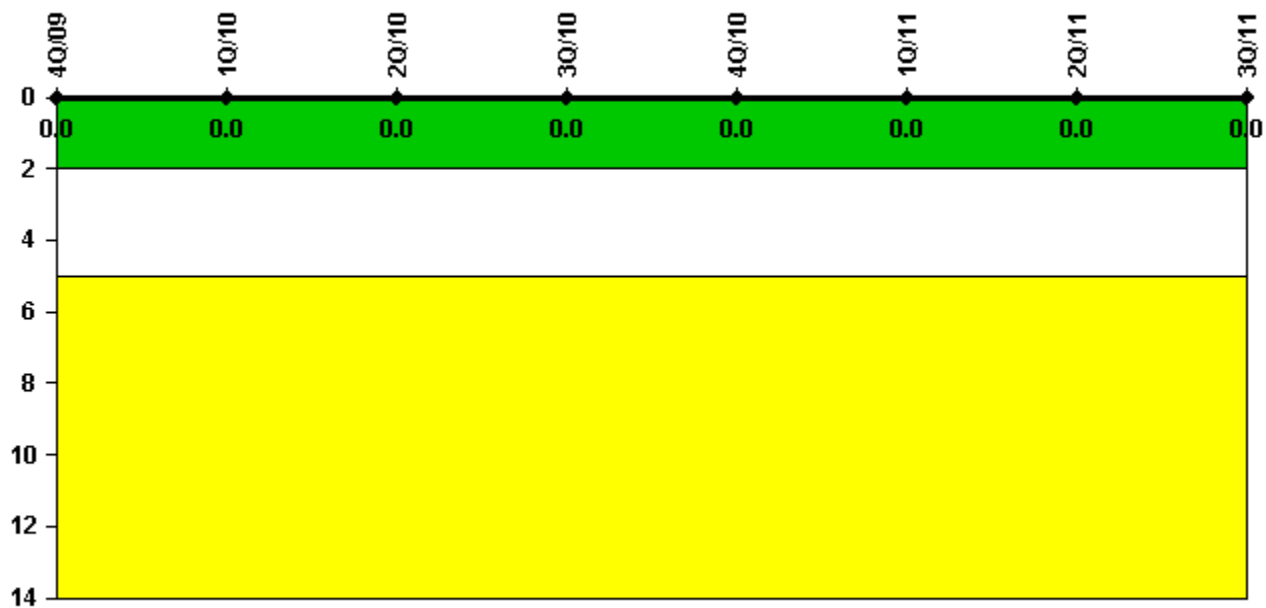
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful siren-tests	544	476	542	473	540	476	544	476
Total sirens-tests	544	476	544	476	544	476	544	476
Indicator value	99.9%	99.9%	99.9%	99.8%	99.6%	99.6%	99.7%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



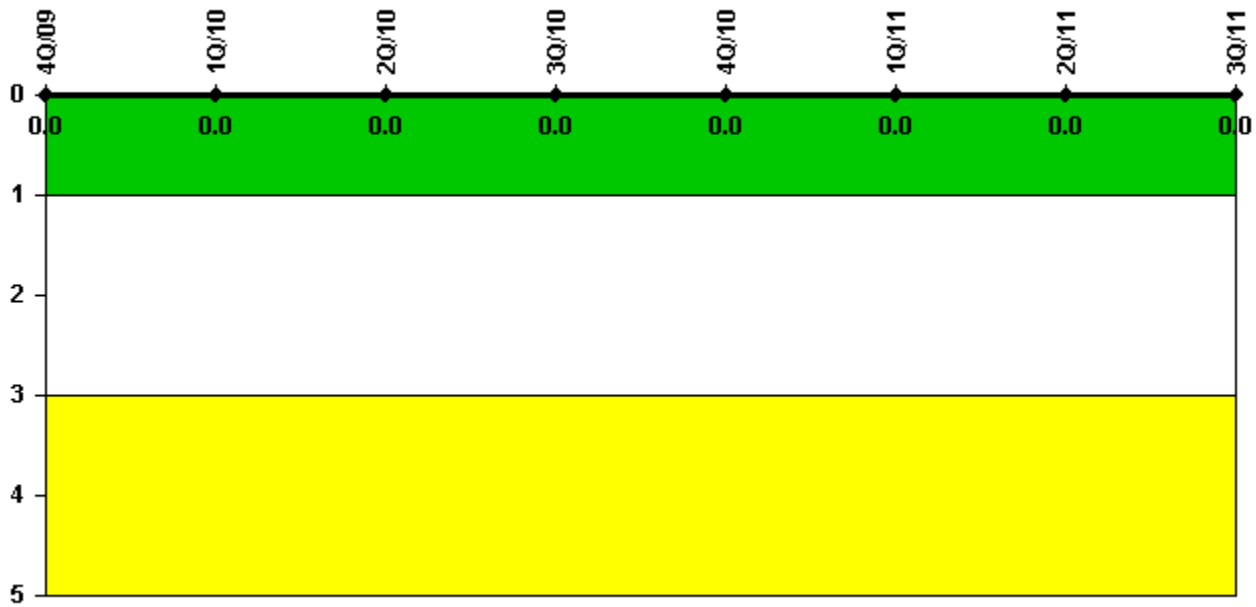
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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.

Surry 1

4Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



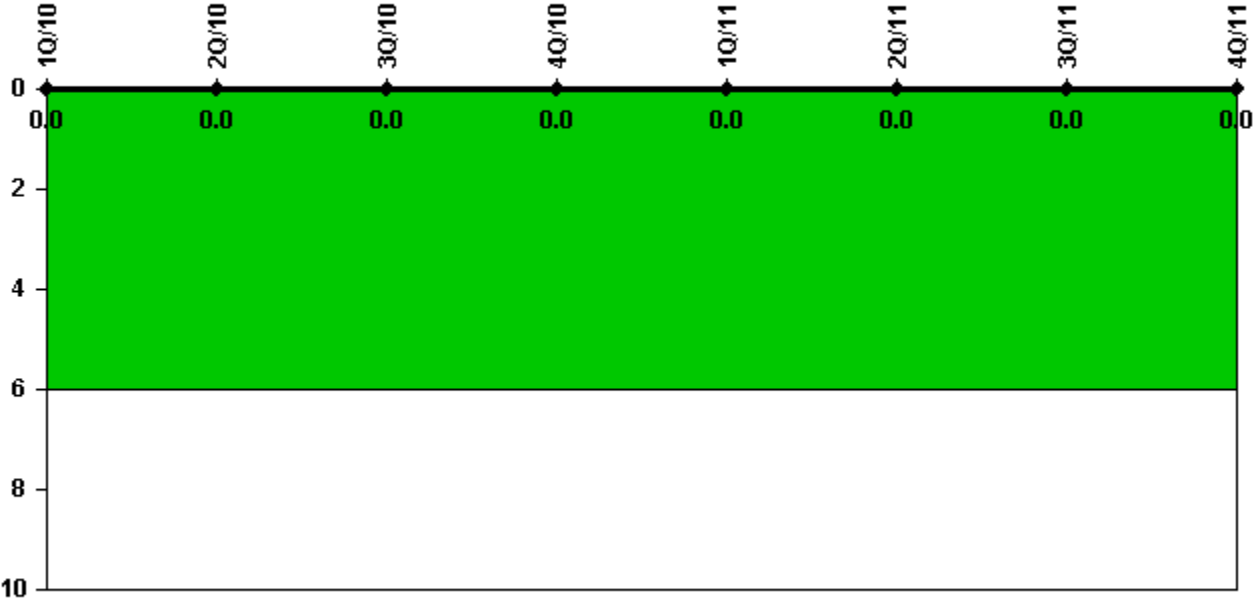
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned scrams	0	1.0	0	0	0	1.0	0	0
Critical hours	2159.0	2107.0	2208.0	1290.0	2159.0	2027.6	2208.0	2209.0
Indicator value	0	0.8	0.8	0.9	0.9	0.9	0.9	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



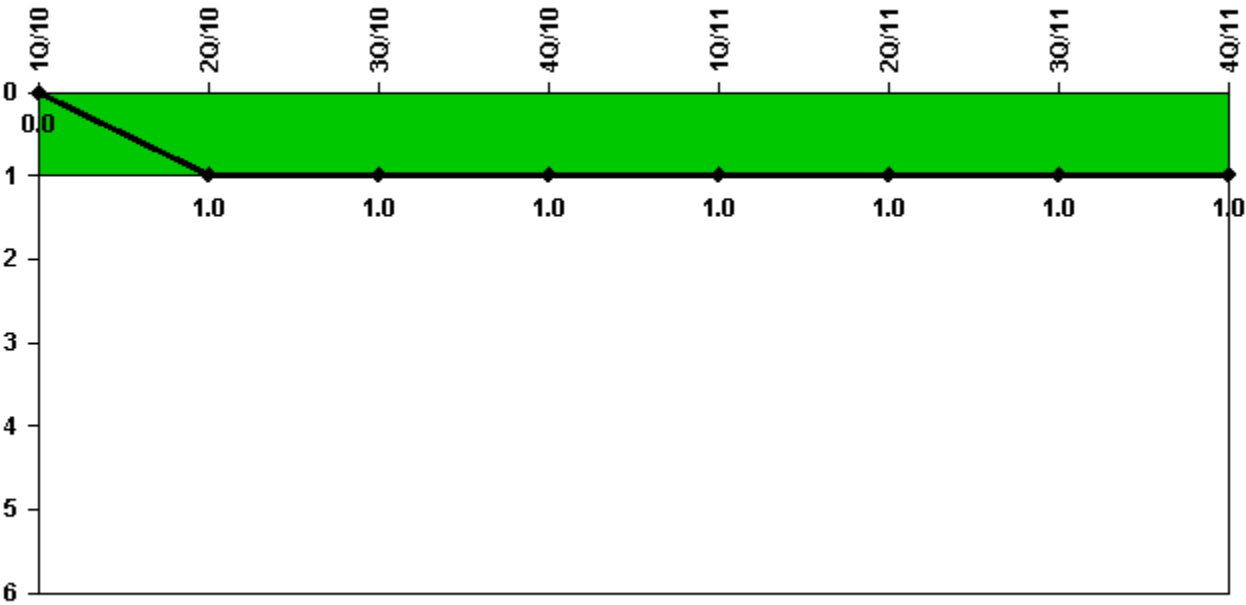
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2159.0	2107.0	2208.0	1290.0	2159.0	2027.6	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



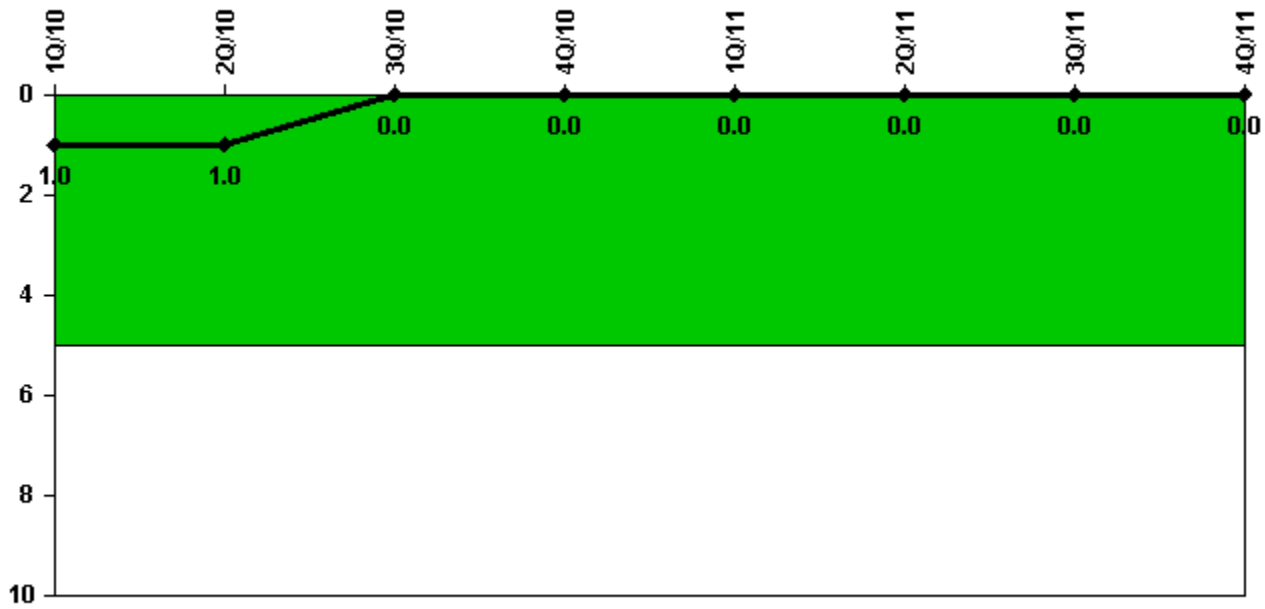
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Scrams with complications	0	1.0	0	0	0	1.0	0	0
Indicator value	0.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments: none

Safety System Functional Failures (PWR)



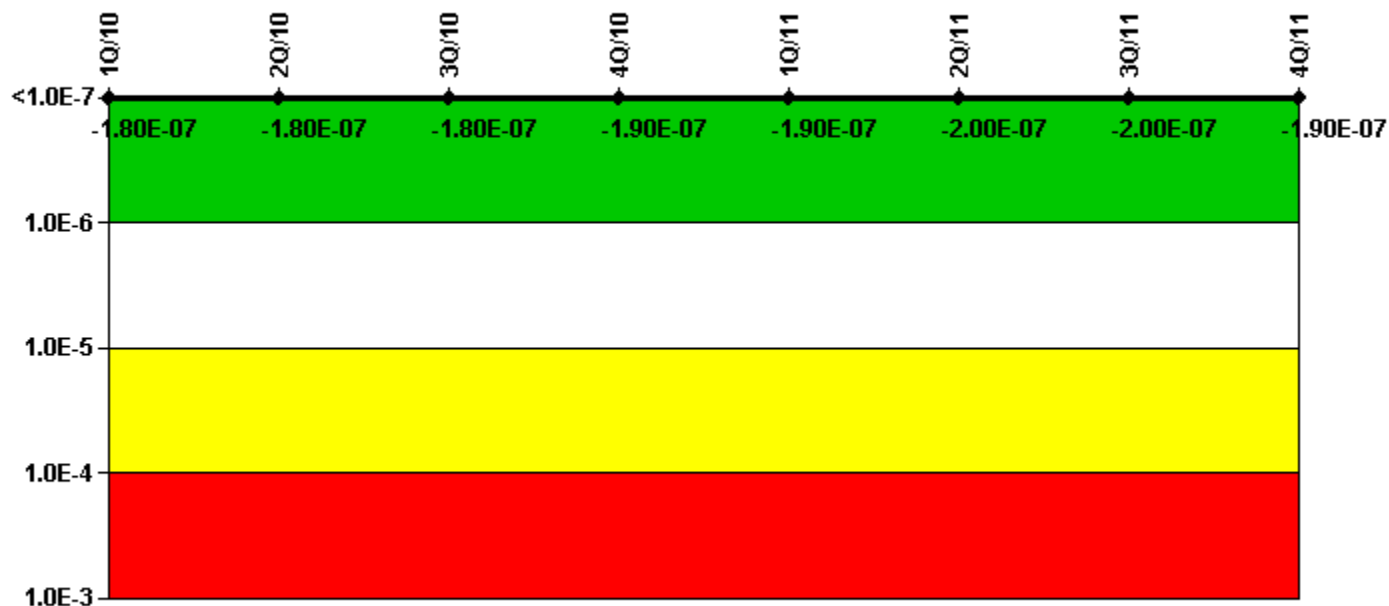
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



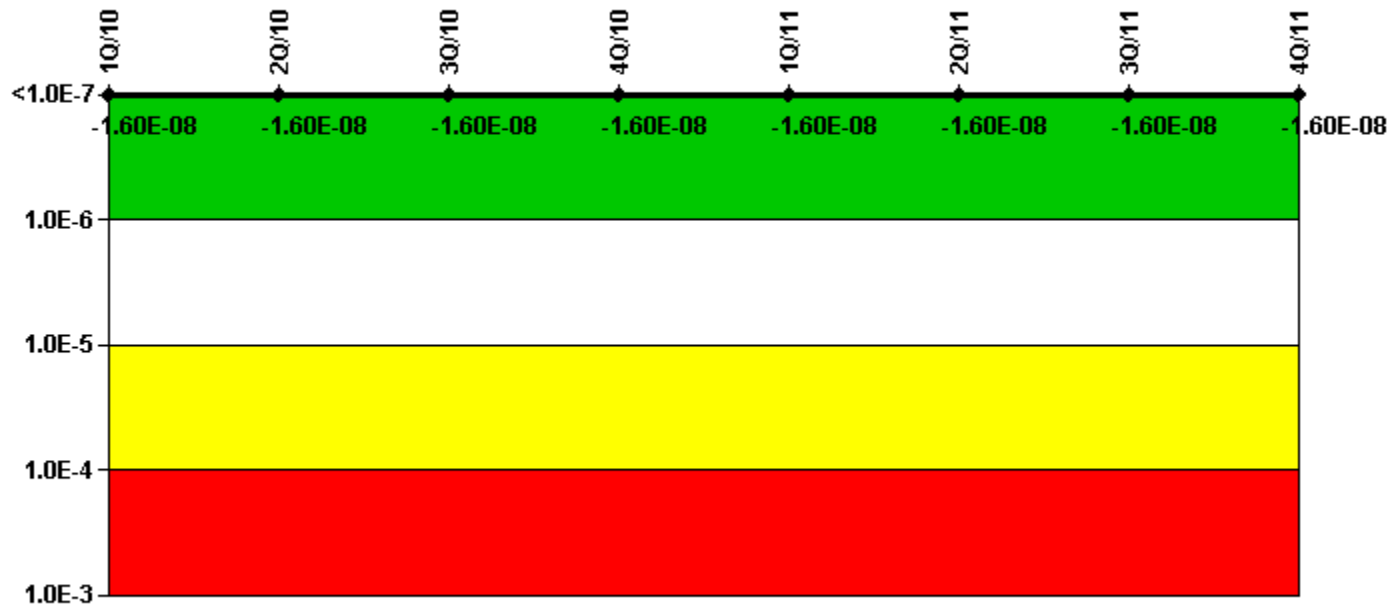
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	-1.35E-08	-9.41E-09	-1.65E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08
URI (Δ CDF)	-1.67E-07	-1.71E-07	-1.67E-07	-1.69E-07	-1.70E-07	-1.80E-07	-1.80E-07	-1.77E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.80E-07	-1.80E-07	-1.90E-07	-1.90E-07	-2.00E-07	-2.00E-07	-1.90E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



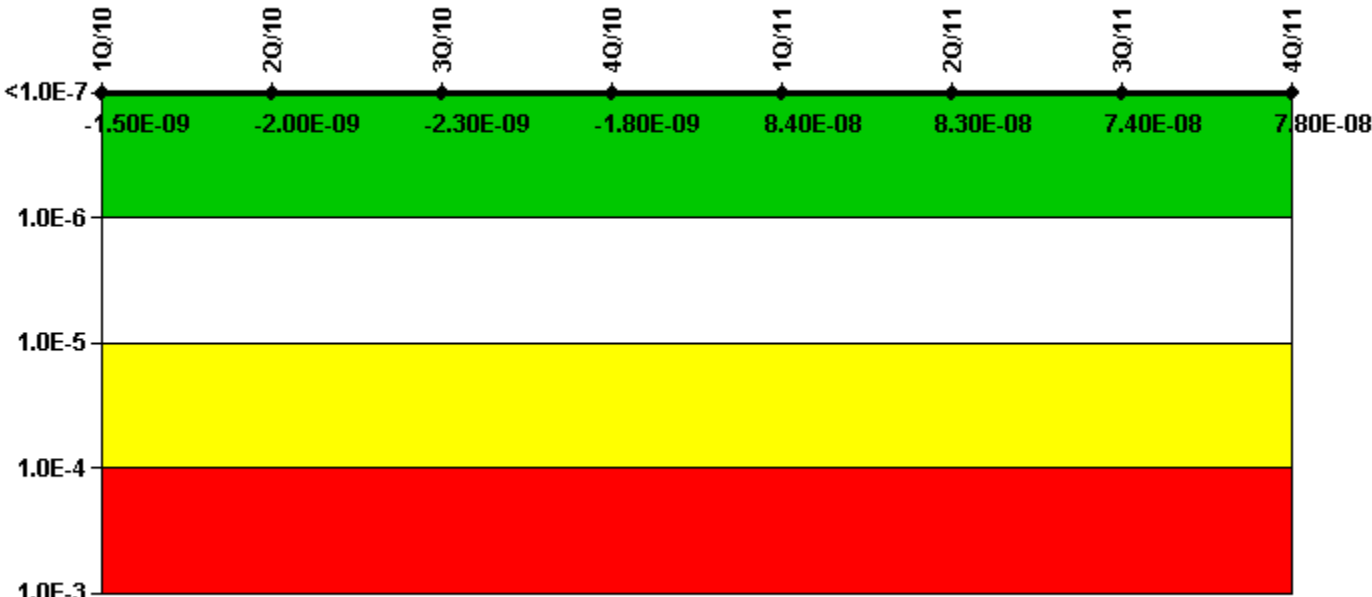
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	-8.32E-10	-8.32E-10	-8.32E-10	-8.32E-10	-8.32E-10	-8.38E-10	-8.38E-10	-9.26E-10
URI (Δ CDF)	-1.48E-08	-1.50E-08	-1.52E-08	-1.50E-08	-1.50E-08	-1.52E-08	-1.52E-08	-1.52E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



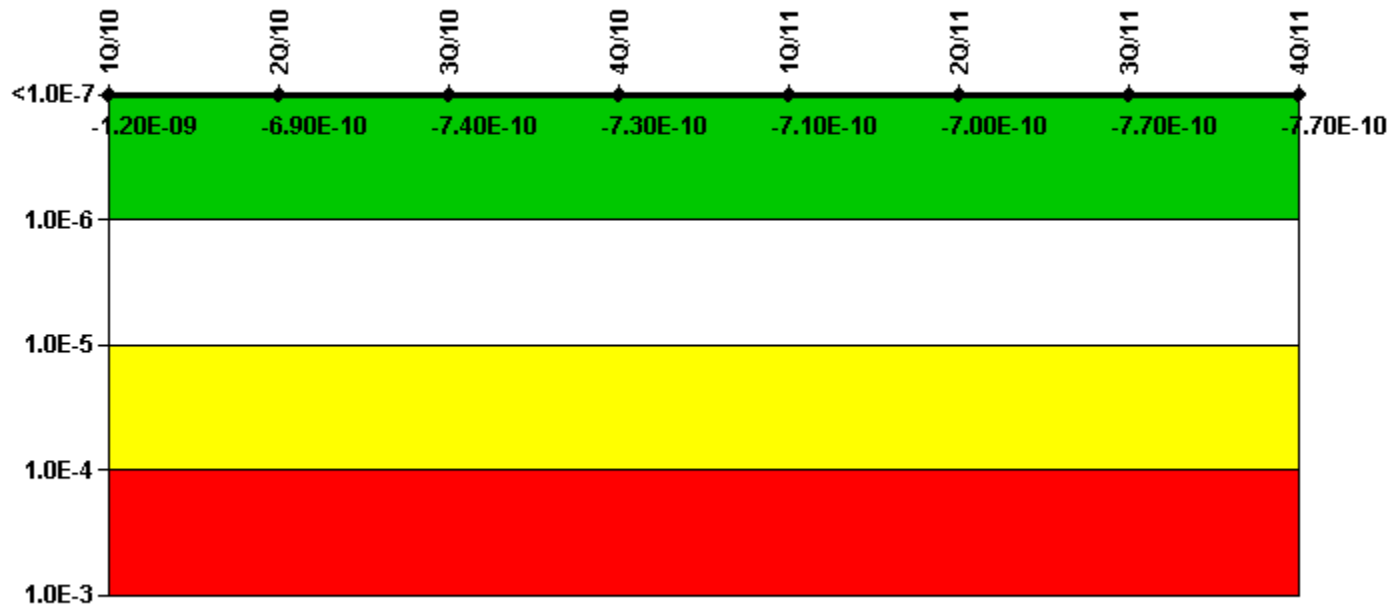
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	1.37E-08	1.45E-08	1.36E-08	1.35E-08	1.44E-08	1.51E-08	6.57E-09	1.04E-08
URI (ΔCDF)	-1.53E-08	-1.65E-08	-1.59E-08	-1.53E-08	6.97E-08	6.79E-08	6.79E-08	6.79E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-09	-2.00E-09	-2.30E-09	-1.80E-09	8.40E-08	8.30E-08	7.40E-08	7.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



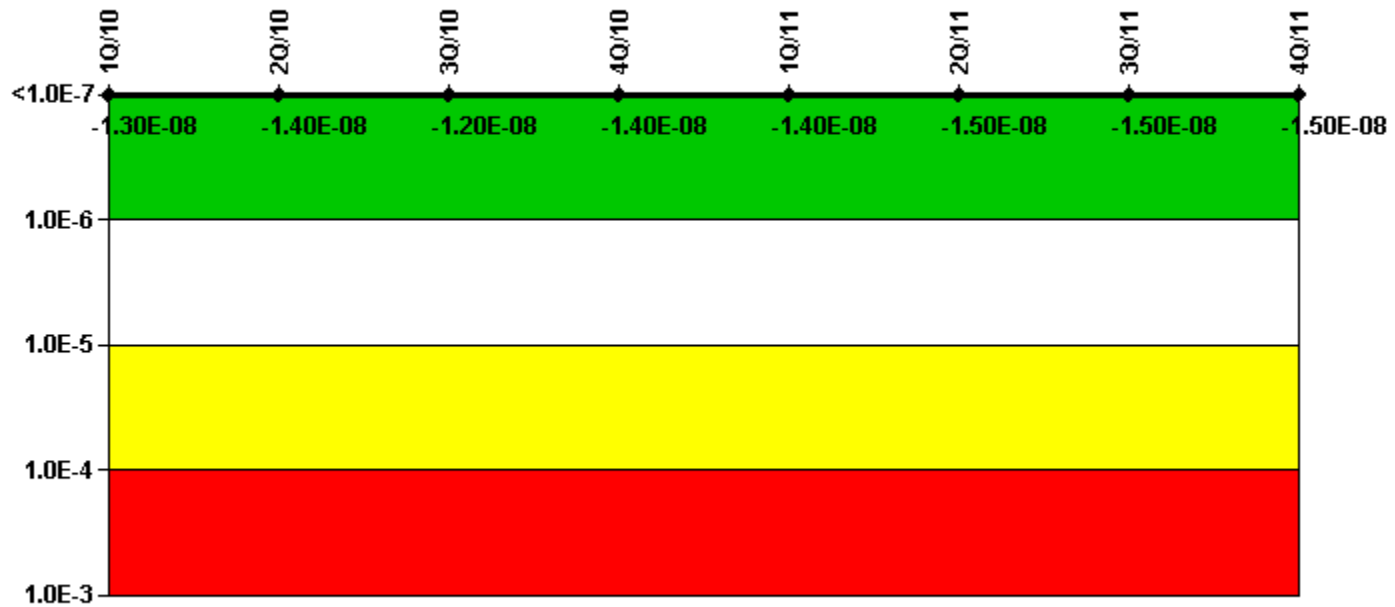
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	-2.70E-10	2.71E-10	2.14E-10	2.07E-10	2.25E-10	2.34E-10	1.68E-10	1.66E-10
URI (Δ CDF)	-9.10E-10	-9.57E-10	-9.57E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-6.90E-10	-7.40E-10	-7.30E-10	-7.10E-10	-7.00E-10	-7.70E-10	-7.70E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



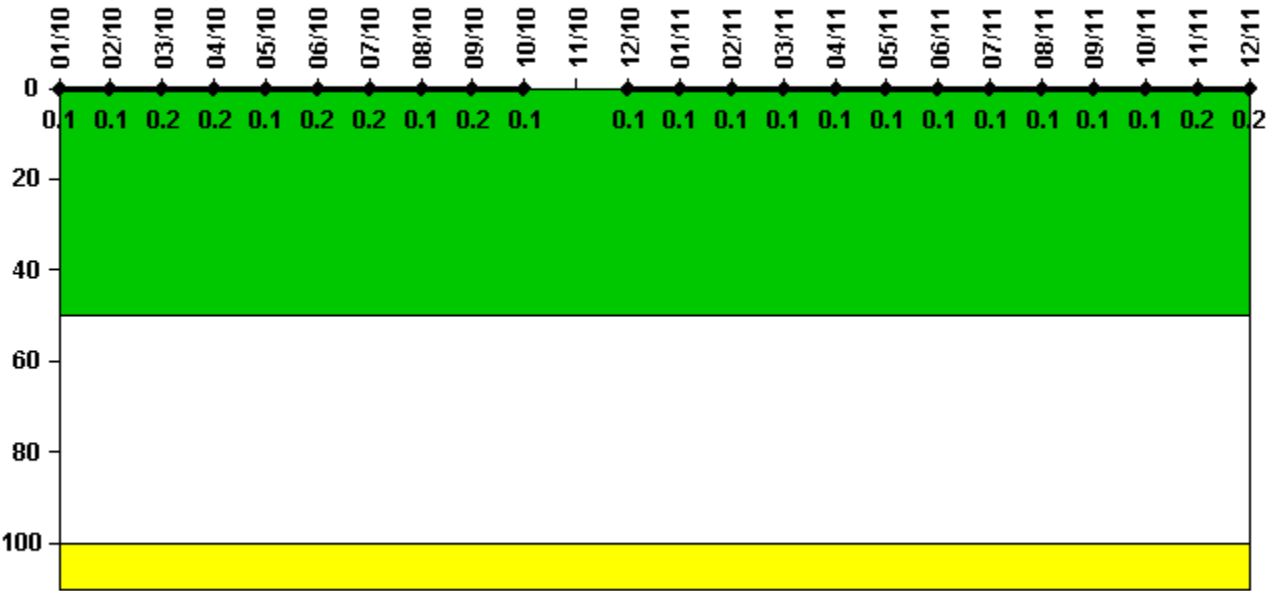
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	6.88E-09	6.40E-09	7.35E-09	5.24E-09	5.56E-09	5.83E-09	5.39E-09	5.15E-09
URI (ΔCDF)	-1.98E-08	-2.01E-08	-1.94E-08	-1.97E-08	-1.97E-08	-2.04E-08	-2.04E-08	-2.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-08	-1.40E-08	-1.20E-08	-1.40E-08	-1.40E-08	-1.50E-08	-1.50E-08	-1.50E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

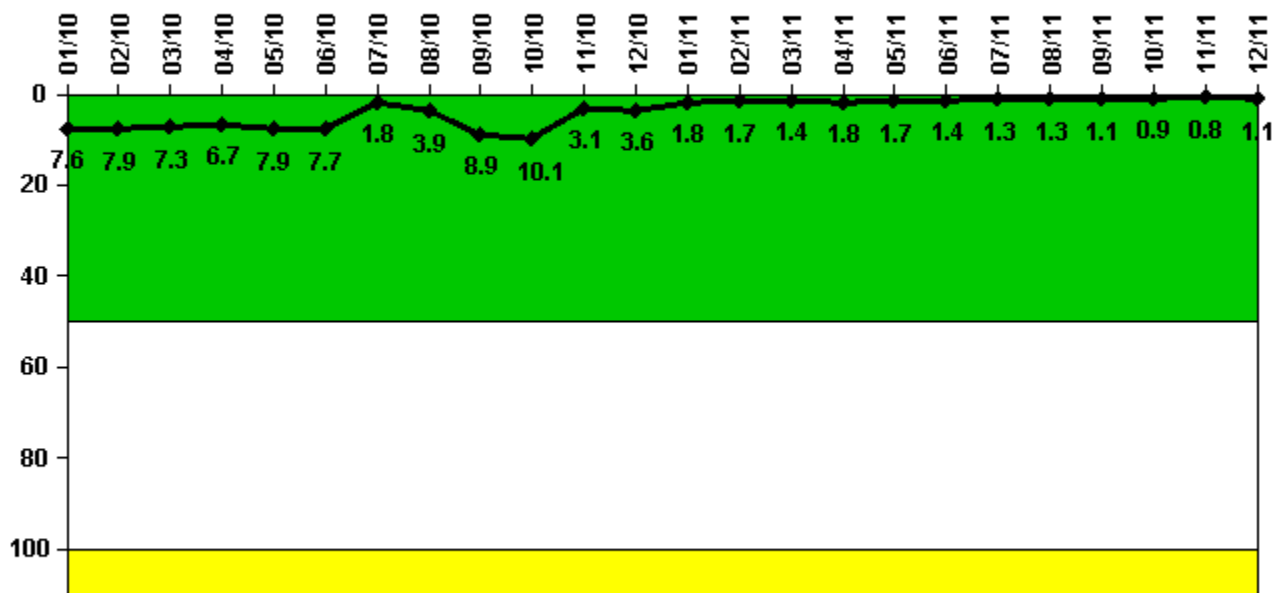
Notes

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	0.001250	0.001270	0.001720	0.001550	0.001370	0.001510	0.001550	0.001420	0.002170	0.001350	N/A	0.000958
Technical specification limit	1.0	1.0	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	0.1	0.2	0.2	0.1	0.2	0.1	N/A	0.1

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	0.001130	0.000738	0.000849	0.000756	0.000998	0.000949	0.000985	0.000998	0.001030	0.001110	0.001550	0.001760
Technical specification limit	1.0	1.0	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	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



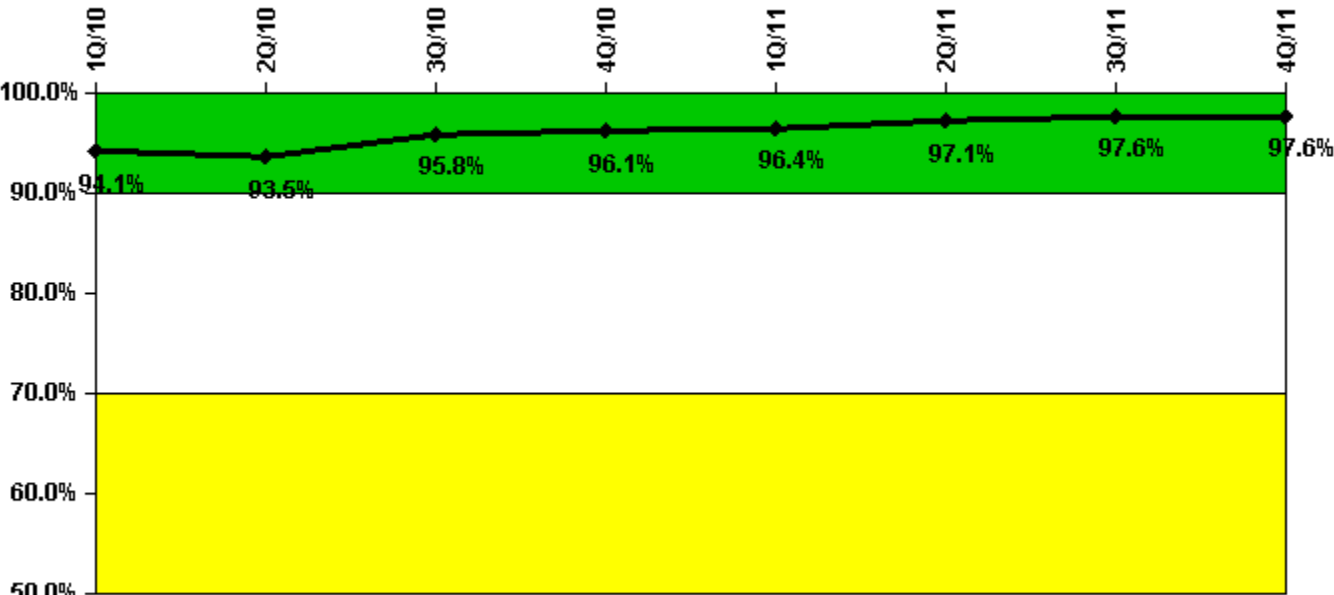
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum leakage	0.760	0.790	0.730	0.670	0.790	0.770	0.180	0.390	0.890	1.010	0.310	0.360
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	7.6	7.9	7.3	6.7	7.9	7.7	1.8	3.9	8.9	10.1	3.1	3.6
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	0.180	0.170	0.140	0.180	0.170	0.140	0.130	0.130	0.110	0.090	0.080	0.110
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.8	1.7	1.4	1.8	1.7	1.4	1.3	1.3	1.1	0.9	0.8	1.1

Licensee Comments: none

Drill/Exercise Performance



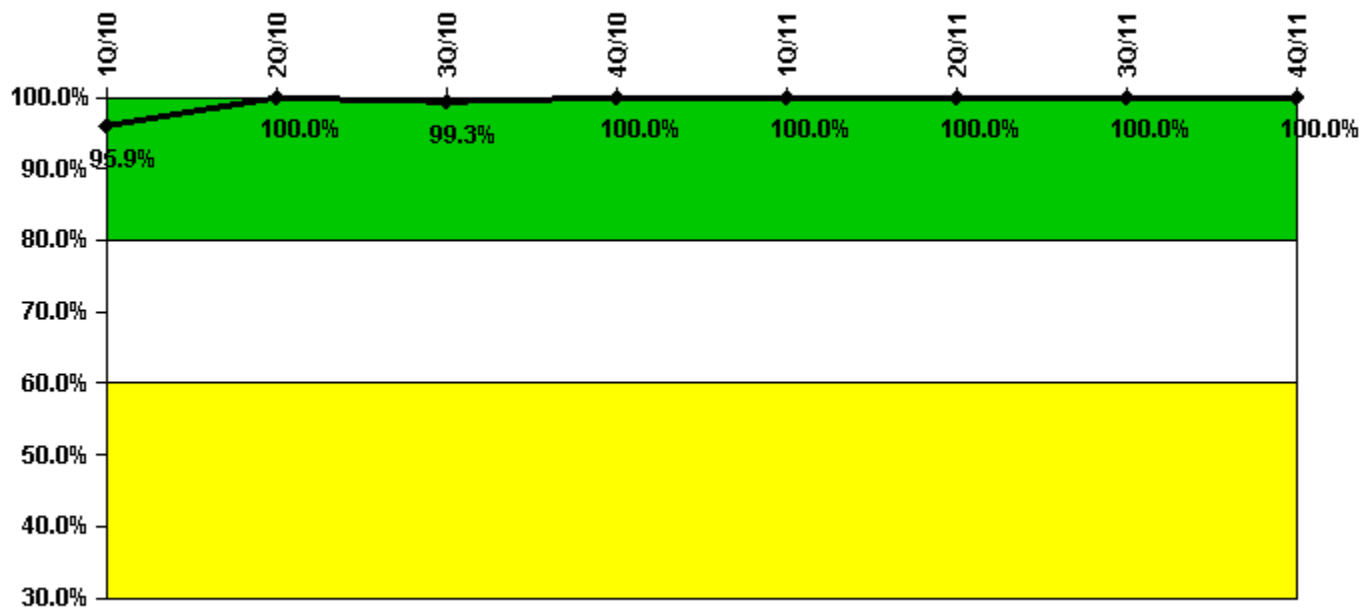
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful opportunities	38.0	33.0	41.0	15.0	31.0	27.0	31.0	27.0
Total opportunities	40.0	35.0	41.0	15.0	32.0	28.0	31.0	27.0
Indicator value	94.1%	93.5%	95.8%	96.1%	96.4%	97.1%	97.6%	97.6%

Licensee Comments: none

ERO Drill Participation



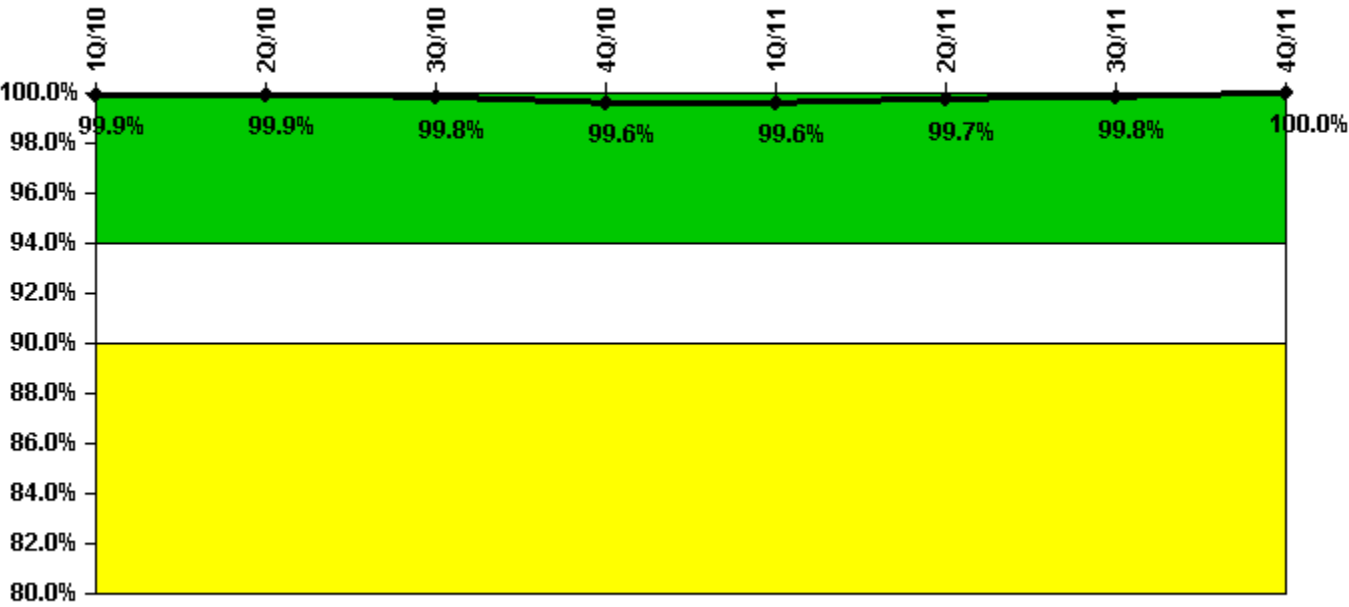
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Participating Key personnel	142.0	145.0	143.0	128.0	132.0	139.0	138.0	141.0
Total Key personnel	148.0	145.0	144.0	128.0	132.0	139.0	138.0	141.0
Indicator value	95.9%	100.0%	99.3%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



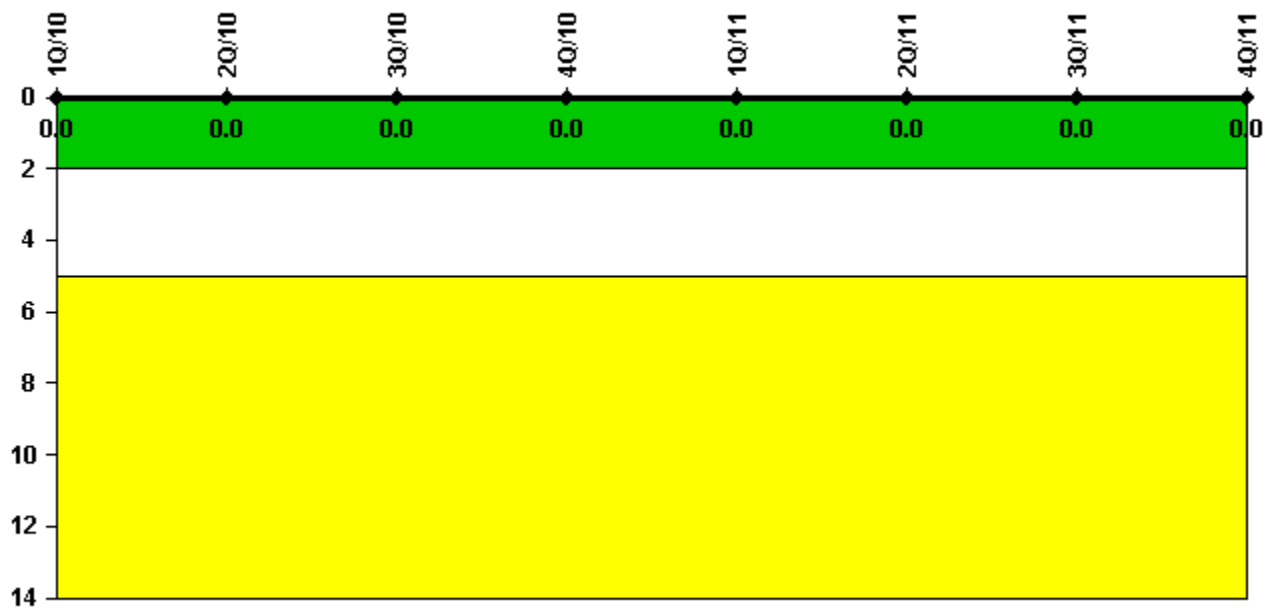
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful siren-tests	476	542	473	540	476	544	476	544
Total sirens-tests	476	544	476	544	476	544	476	544
Indicator value	99.9%	99.9%	99.8%	99.6%	99.6%	99.7%	99.8%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



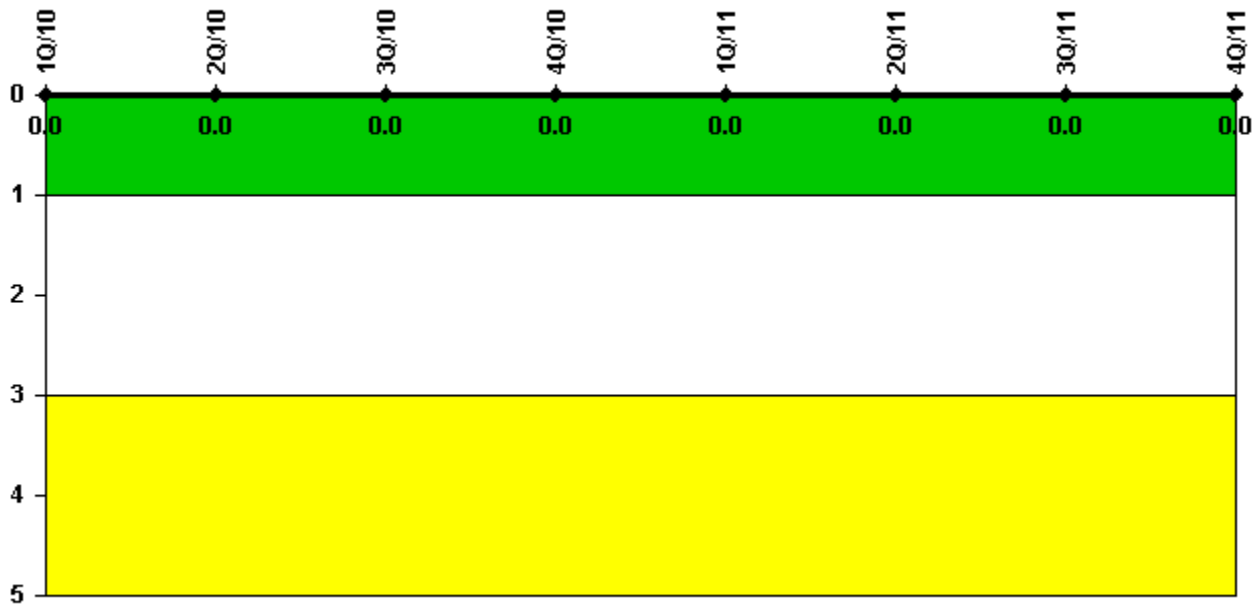
Thresholds: White > 2.0 Yellow > 5.0

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

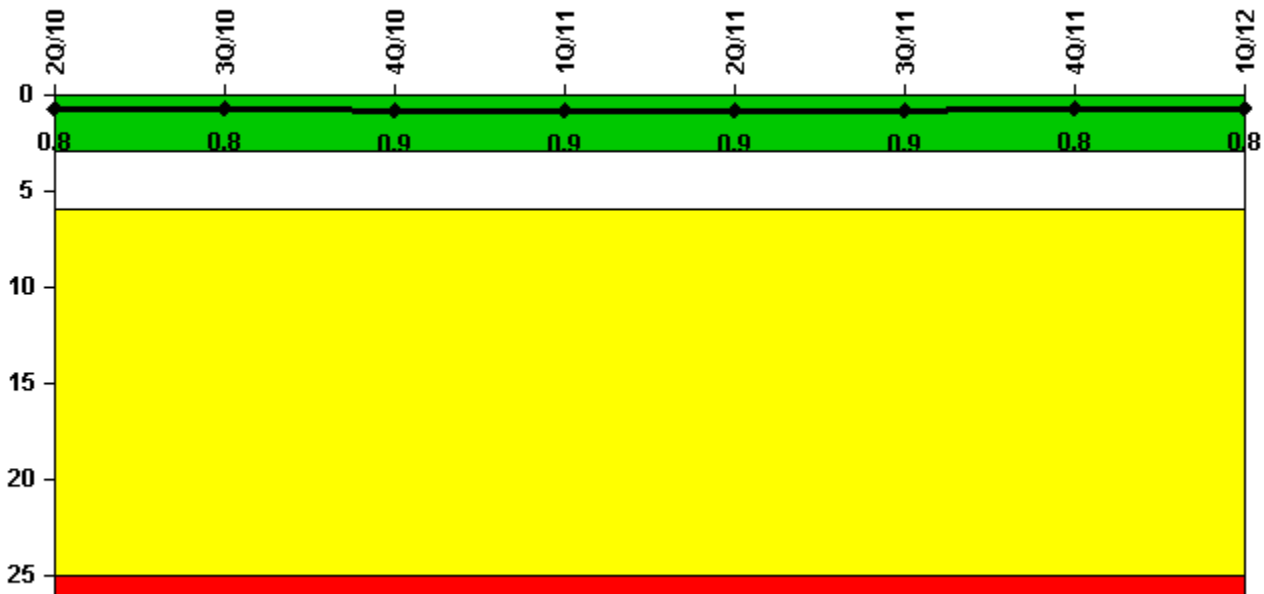
[Security](#) information not publicly available.

Surry 1

1Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

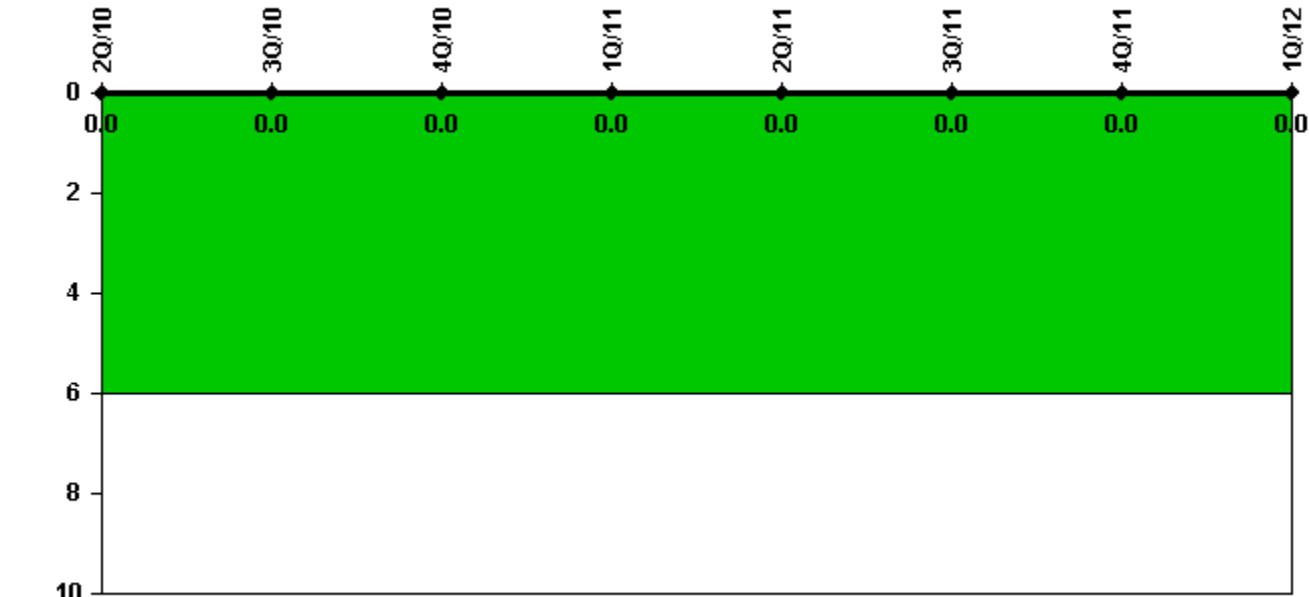
Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned scrams	1.0	0	0	0	1.0	0	0	0
Critical hours	2107.0	2208.0	1290.0	2159.0	2027.6	2208.0	2209.0	2183.0
Indicator value	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8

Licensee Comments:

2Q/10: Unit 1 trip on June 8, 2010 due to loss of Vital bus. See LER 50-280/2010-003-00

Unplanned Power Changes per 7000 Critical Hrs



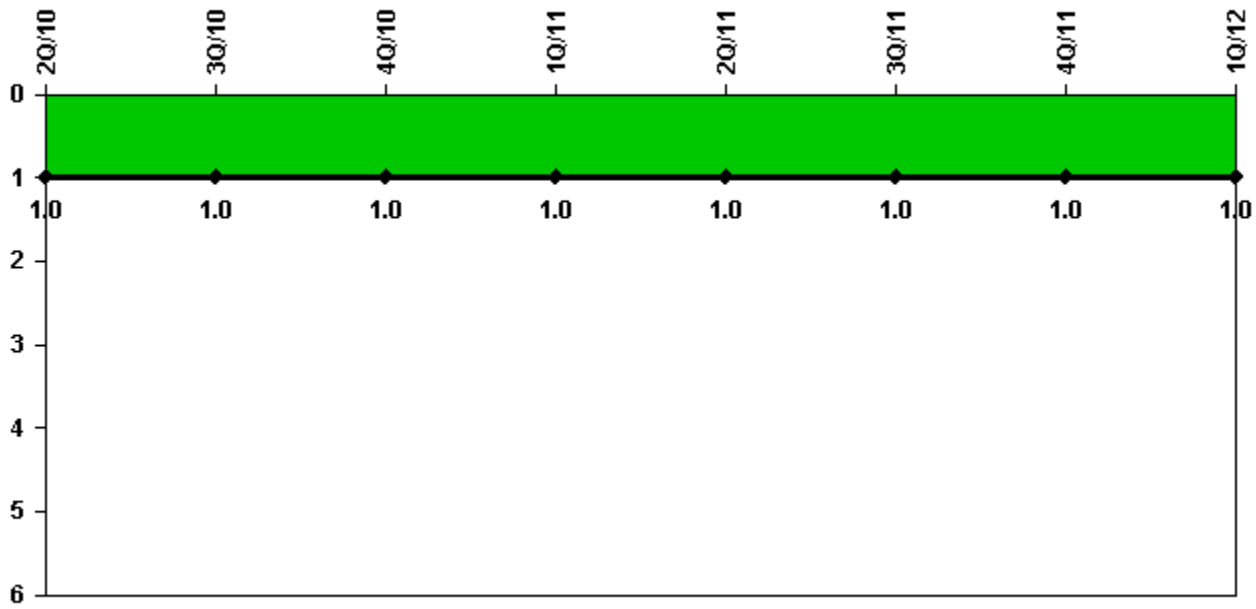
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2107.0	2208.0	1290.0	2159.0	2027.6	2208.0	2209.0	2183.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

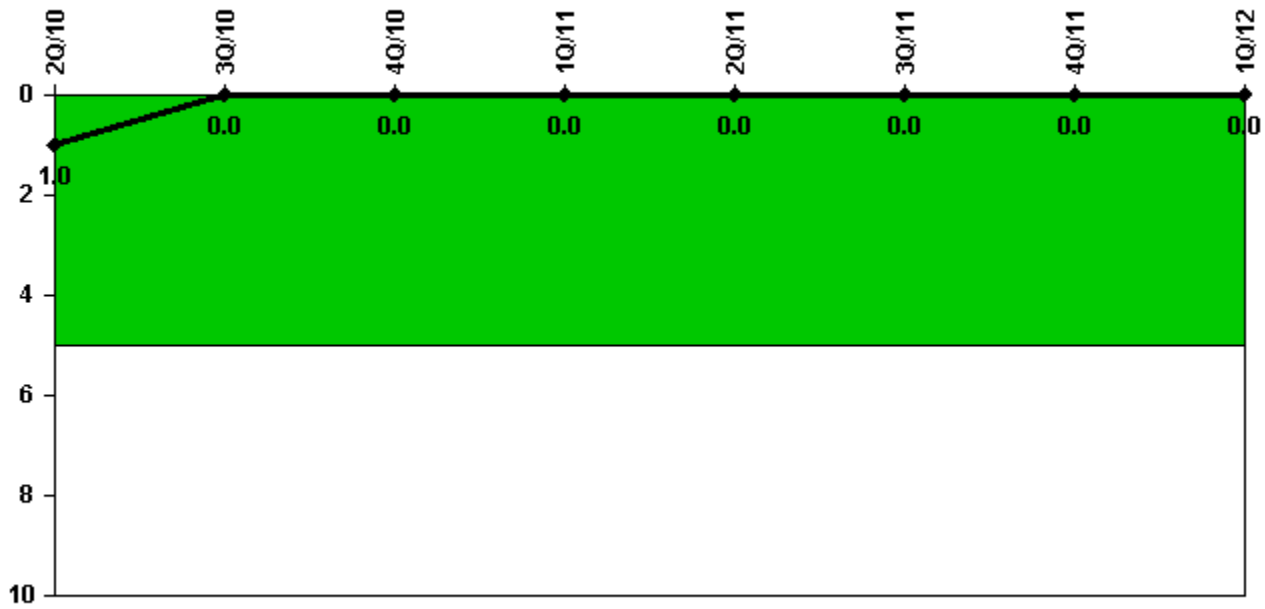
Notes

Unplanned Scrams with Complications	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Scrams with complications	1.0	0	0	0	1.0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments:

2Q/10: Unit 1 trip on June 8, 2010 due to loss of Vital bus. See LER 50-280/2010-003-00

Safety System Functional Failures (PWR)



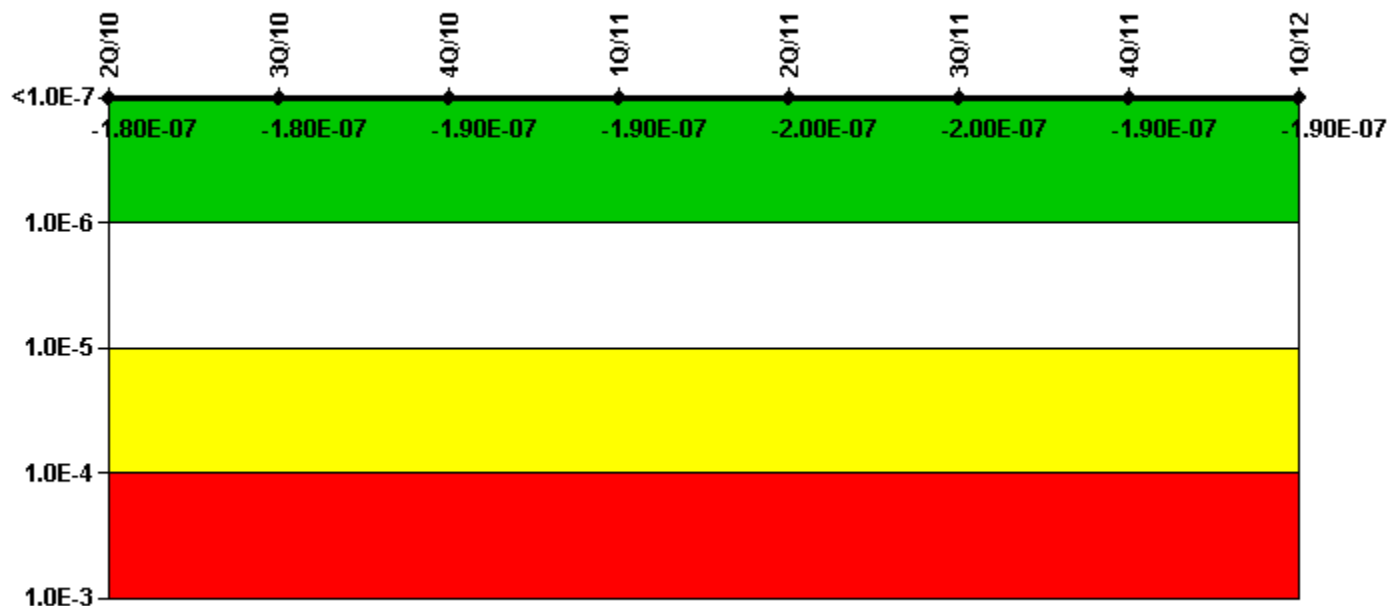
Thresholds: White > 5.0

Notes

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

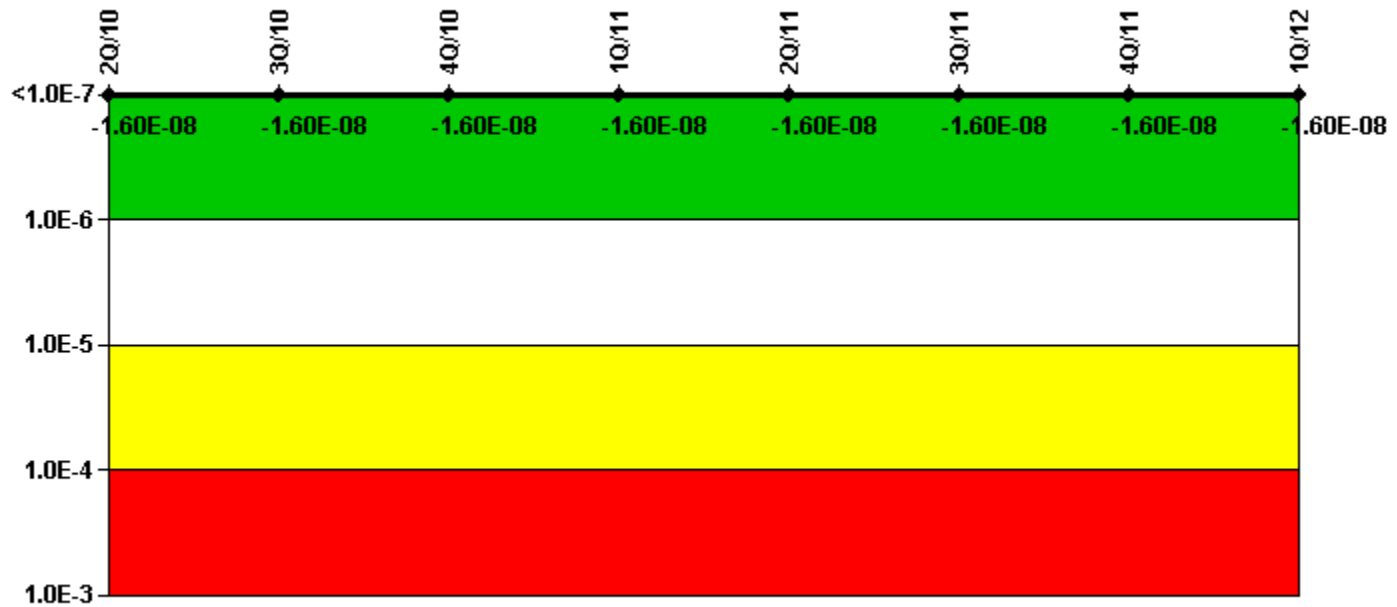
Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	-9.41E-09	-1.65E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08
URI (Δ CDF)	-1.71E-07	-1.67E-07	-1.69E-07	-1.70E-07	-1.80E-07	-1.80E-07	-1.77E-07	-1.74E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.80E-07	-1.90E-07	-1.90E-07	-2.00E-07	-2.00E-07	-1.90E-07	-1.90E-07

Licensee Comments:

1Q/11: An NRC assessment identified several instances of unplanned unavailability and post maintenance test demands that were reported incorrectly. Historical data was corrected with no change in color.

Mitigating Systems Performance Index, High Pressure Injection System



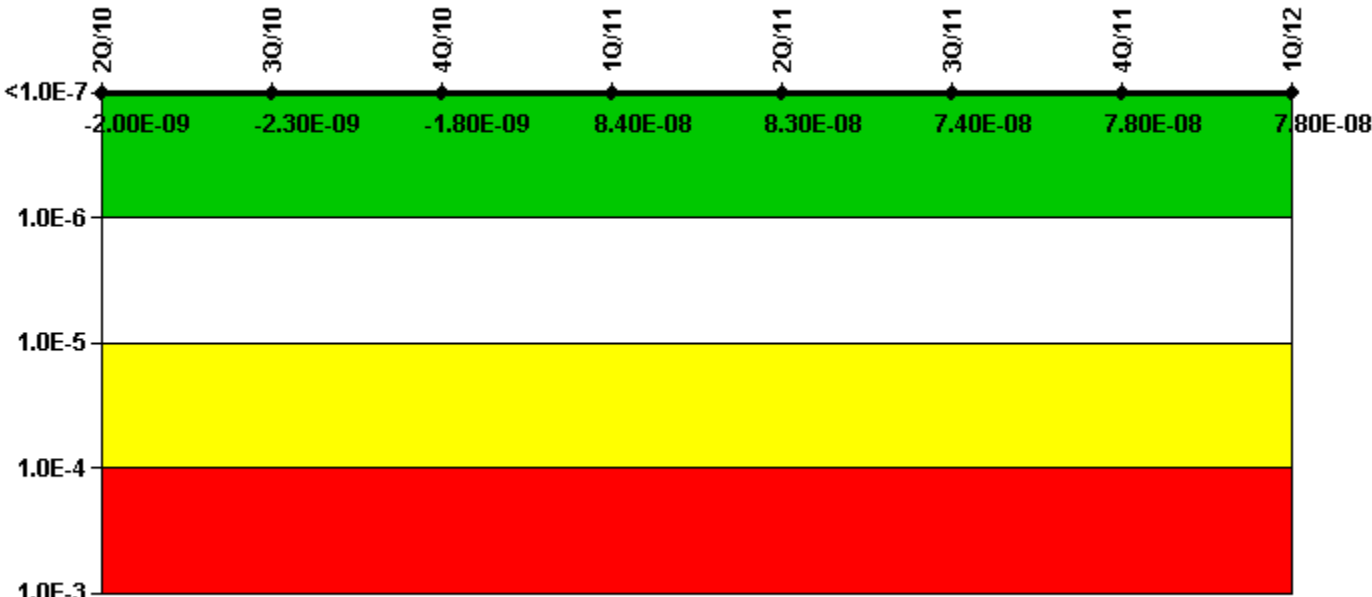
Thresholds: White > $1.00E-6$ Yellow > $1.00E-5$ Red > $1.00E-4$

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	-8.32E-10	-8.32E-10	-8.32E-10	-8.32E-10	-8.38E-10	-8.38E-10	-9.26E-10	-7.52E-10
URI (Δ CDF)	-1.50E-08	-1.52E-08	-1.50E-08	-1.50E-08	-1.52E-08	-1.52E-08	-1.52E-08	-1.52E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



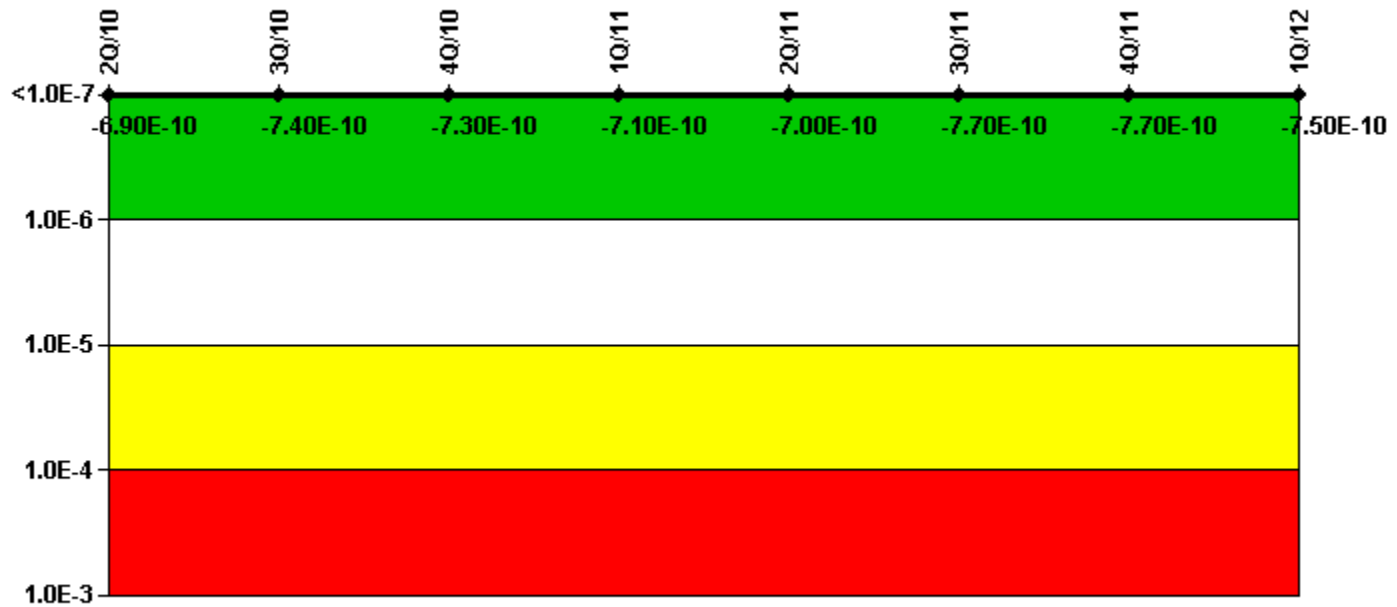
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	1.45E-08	1.36E-08	1.35E-08	1.44E-08	1.51E-08	6.57E-09	1.04E-08	7.92E-09
URI (ΔCDF)	-1.65E-08	-1.59E-08	-1.53E-08	6.97E-08	6.79E-08	6.79E-08	6.79E-08	6.96E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-09	-2.30E-09	-1.80E-09	8.40E-08	8.30E-08	7.40E-08	7.80E-08	7.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



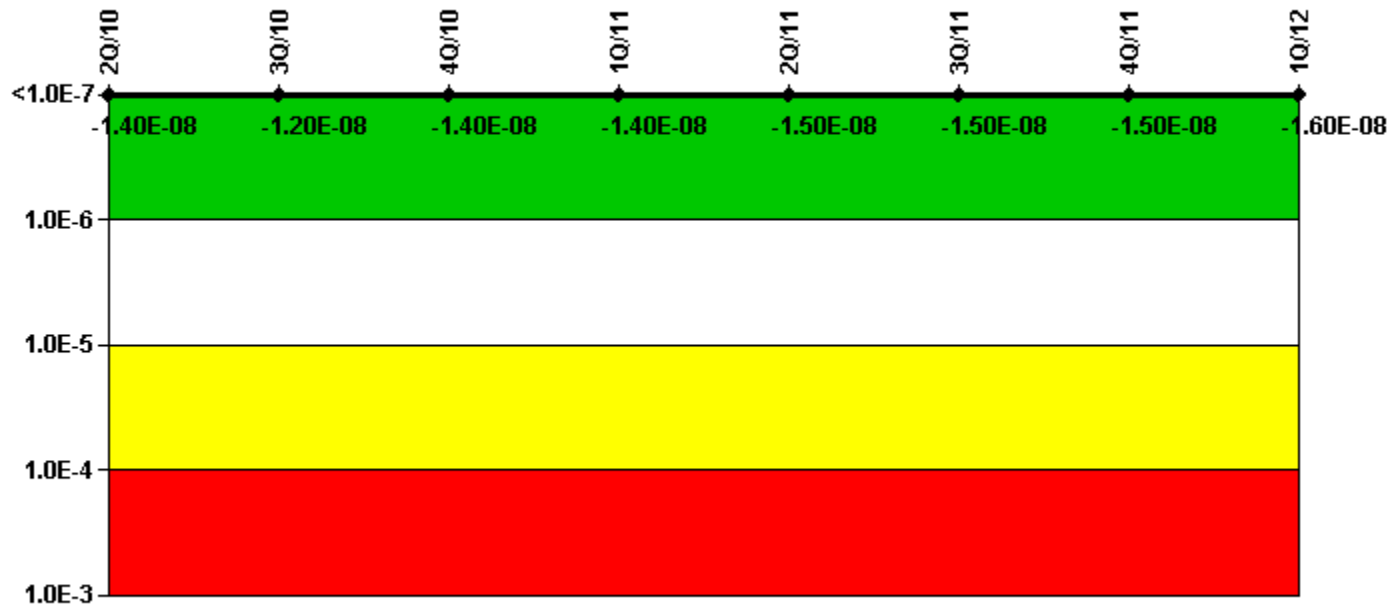
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	2.71E-10	2.14E-10	2.07E-10	2.25E-10	2.34E-10	1.68E-10	1.66E-10	1.81E-10
URI (ΔCDF)	-9.57E-10	-9.57E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.90E-10	-7.40E-10	-7.30E-10	-7.10E-10	-7.00E-10	-7.70E-10	-7.70E-10	-7.50E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



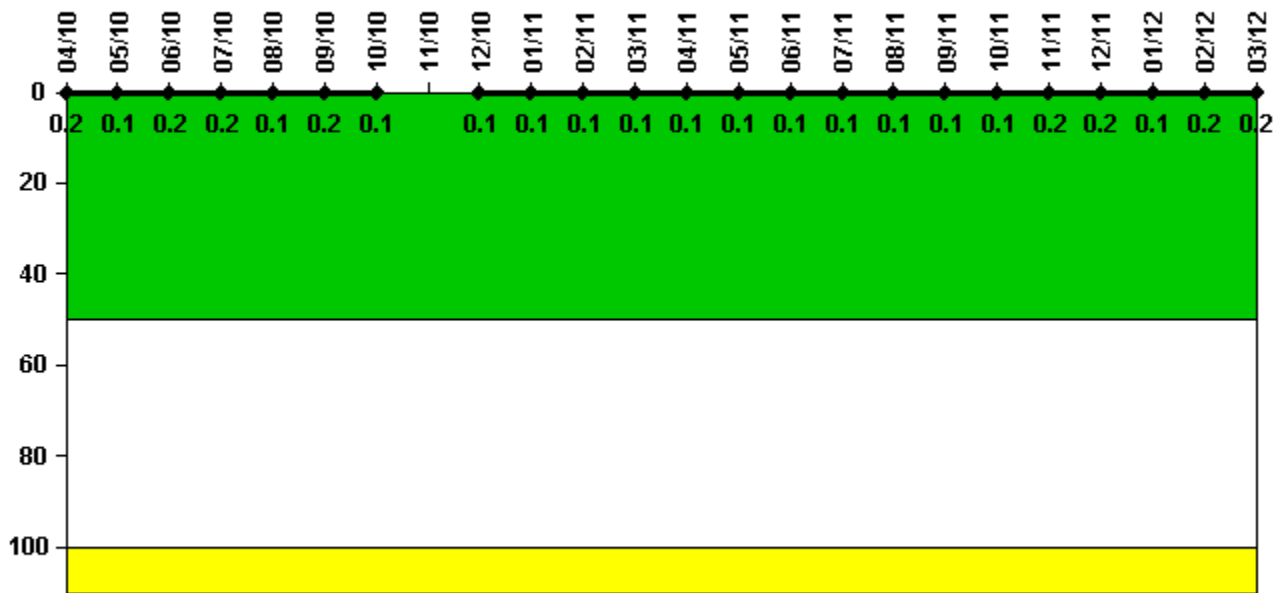
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	6.40E-09	7.35E-09	5.24E-09	5.56E-09	5.83E-09	5.39E-09	5.15E-09	4.47E-09
URI (ΔCDF)	-2.01E-08	-1.94E-08	-1.97E-08	-1.97E-08	-2.04E-08	-2.04E-08	-2.04E-08	-2.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	-1.20E-08	-1.40E-08	-1.40E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.60E-08

Licensee Comments: none

Reactor Coolant System Activity



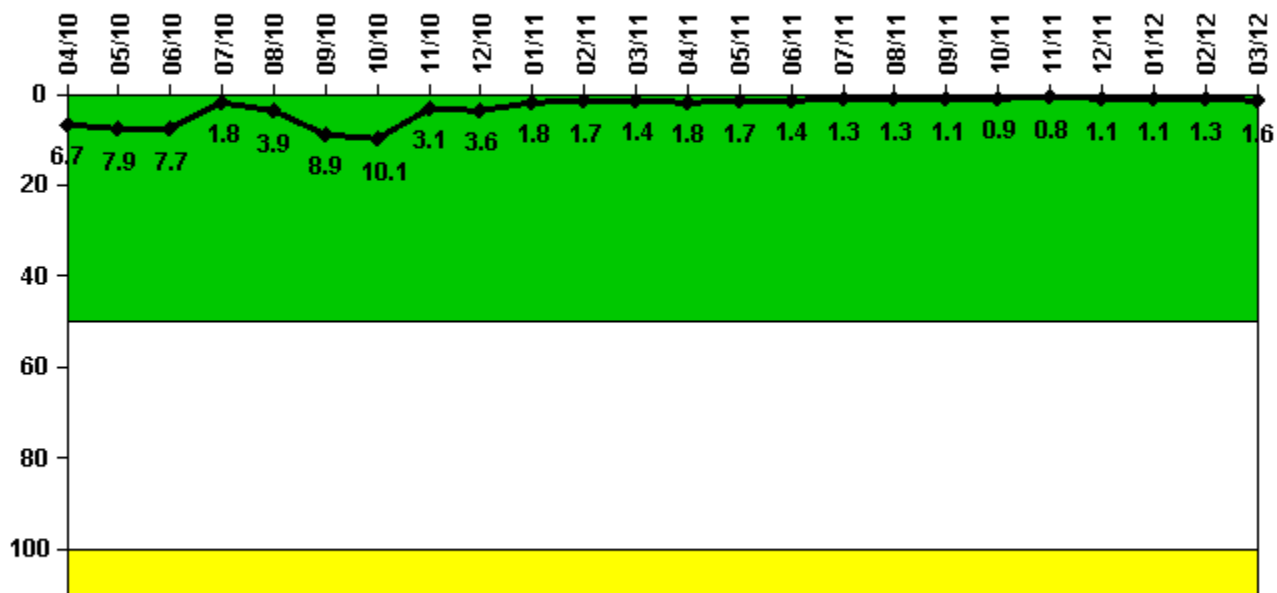
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum activity	0.001550	0.001370	0.001510	0.001550	0.001420	0.002170	0.001350	N/A	0.000958	0.001130	0.000738	0.000849
Technical specification limit	1.0	1.0	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	0.1	0.2	0.1	N/A	0.1	0.1	0.1	0.1
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	0.000756	0.000998	0.000949	0.000985	0.000998	0.001030	0.001110	0.001550	0.001760	0.001200	0.002160	0.001610
Technical specification limit	1.0	1.0	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	0.2	0.2	0.1	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



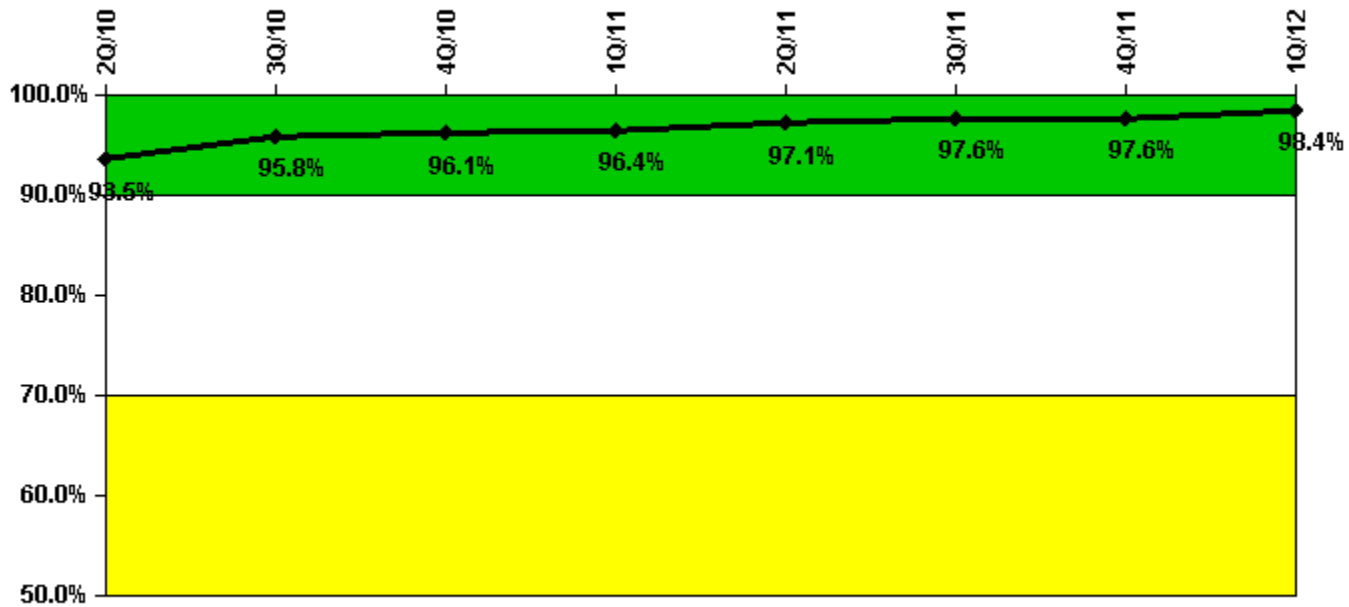
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.670	0.790	0.770	0.180	0.390	0.890	1.010	0.310	0.360	0.180	0.170	0.140
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	6.7	7.9	7.7	1.8	3.9	8.9	10.1	3.1	3.6	1.8	1.7	1.4
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	0.180	0.170	0.140	0.130	0.130	0.110	0.090	0.080	0.110	0.110	0.130	0.160
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.8	1.7	1.4	1.3	1.3	1.1	0.9	0.8	1.1	1.1	1.3	1.6

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

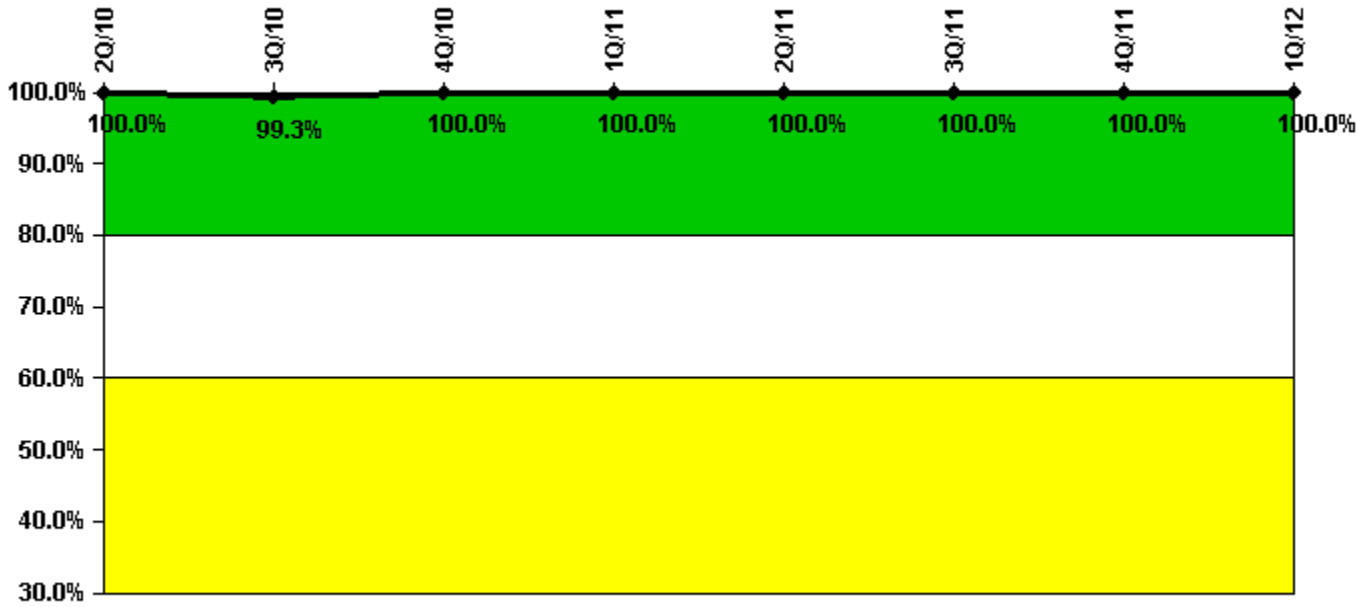
Notes

Drill/Exercise Performance	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful opportunities	33.0	41.0	15.0	31.0	27.0	31.0	27.0	38.0
Total opportunities	35.0	41.0	15.0	32.0	28.0	31.0	27.0	38.0
Indicator value	93.5%	95.8%	96.1%	96.4%	97.1%	97.6%	97.6%	98.4%

Licensee Comments:

3Q/11: An NRC assessment determined a missed classification occurred in June 2011. Historical data was corrected with no change in color.

ERO Drill Participation



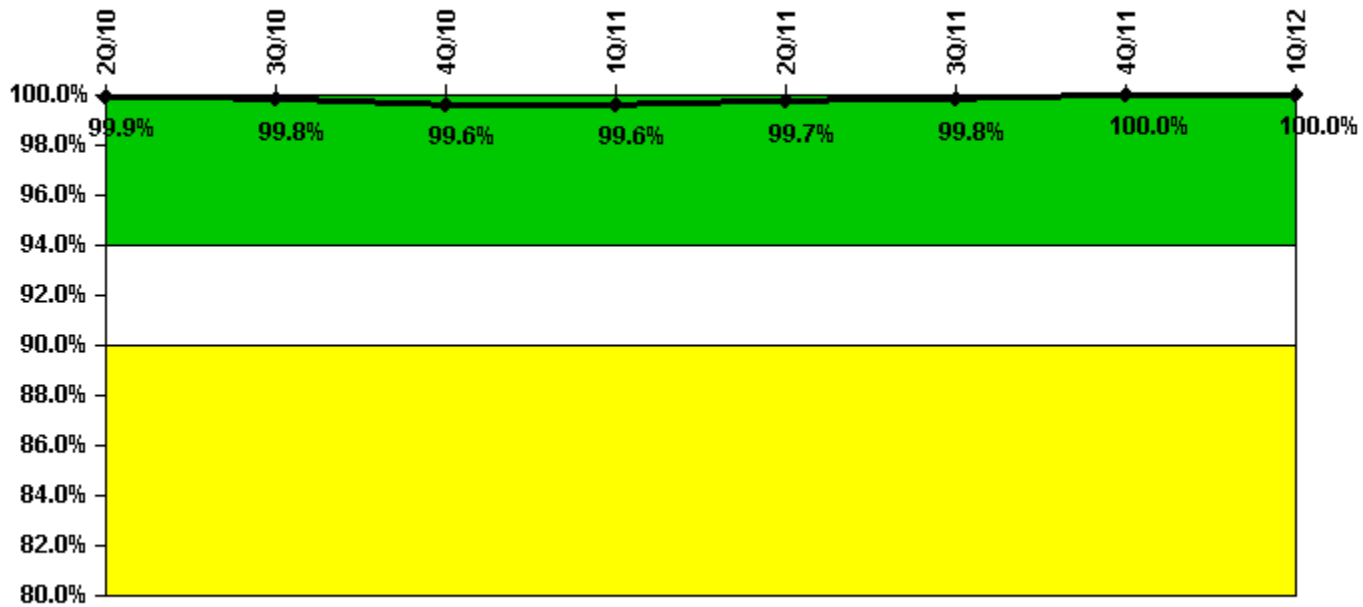
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Participating Key personnel	145.0	143.0	128.0	132.0	139.0	138.0	141.0	153.0
Total Key personnel	145.0	144.0	128.0	132.0	139.0	138.0	141.0	153.0
Indicator value	100.0%	99.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

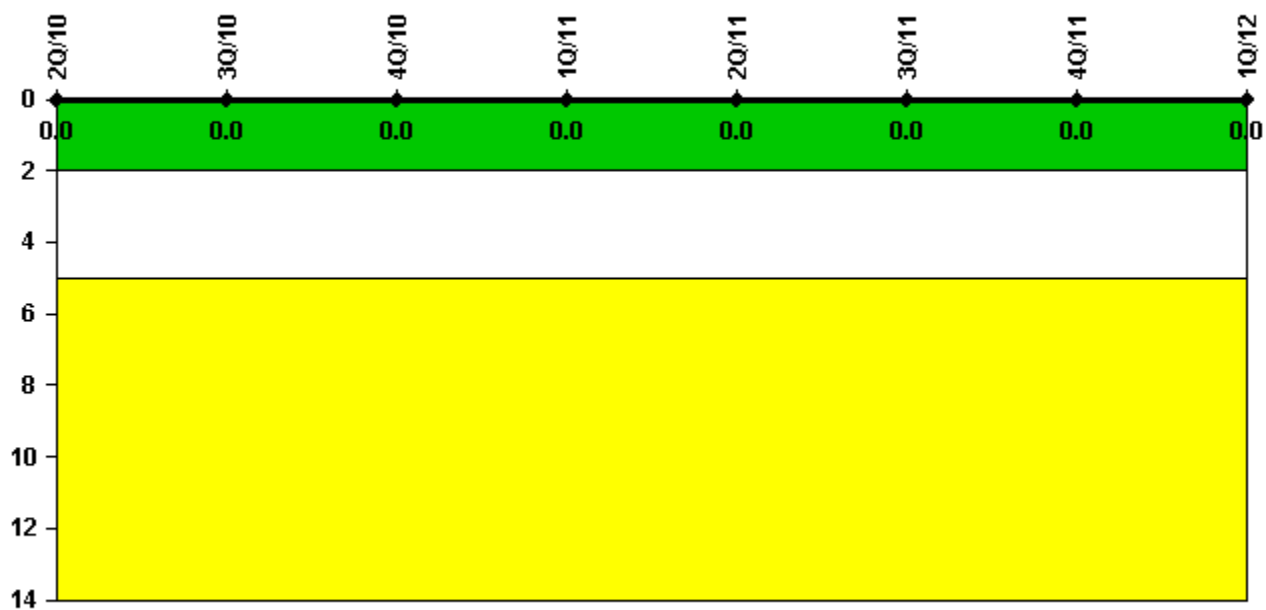
Notes

Alert & Notification System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful siren-tests	542	473	540	476	544	476	544	476
Total sirens-tests	544	476	544	476	544	476	544	476
Indicator value	99.9%	99.8%	99.6%	99.6%	99.7%	99.8%	100.0%	100.0%

Licensee Comments:

2Q/11: A self-assessment identified a siren activation test was not counted in March 2011. Historical data was corrected with no change in color.

Occupational Exposure Control Effectiveness



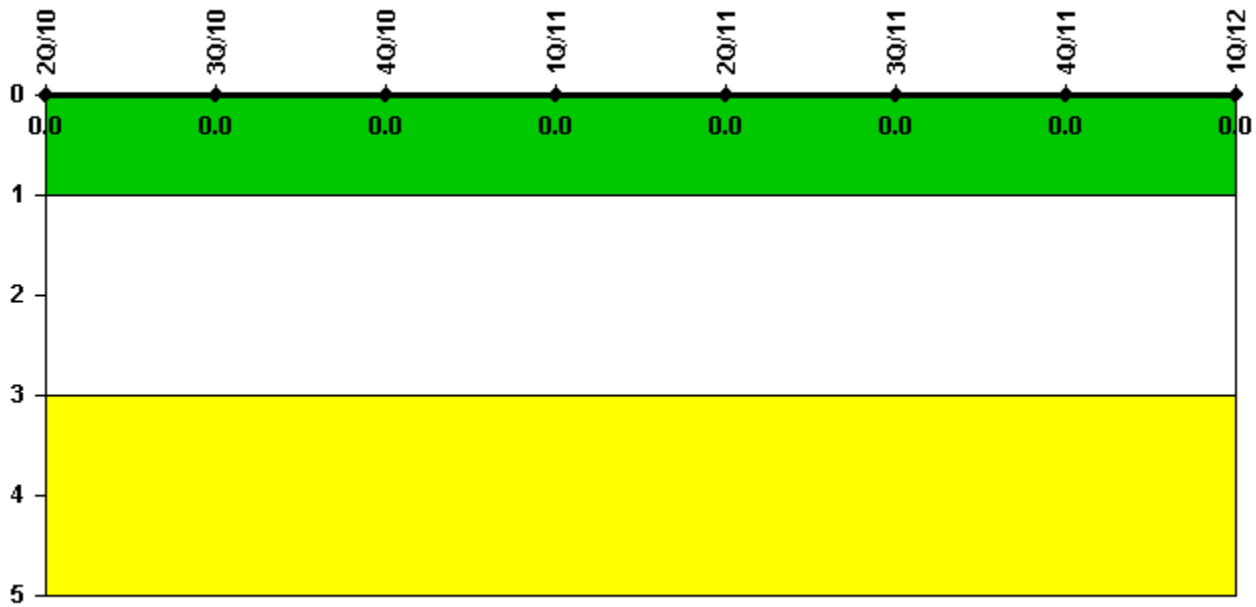
Thresholds: White > 2.0 Yellow > 5.0

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

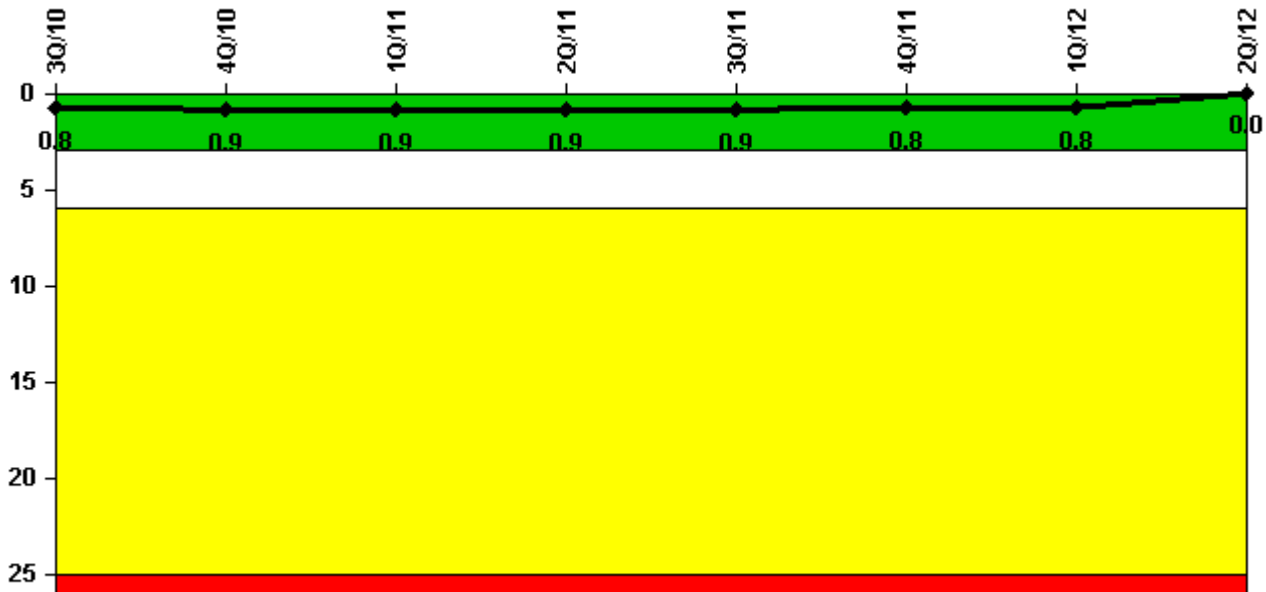
[Security](#) information not publicly available.

Surry 1

2Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



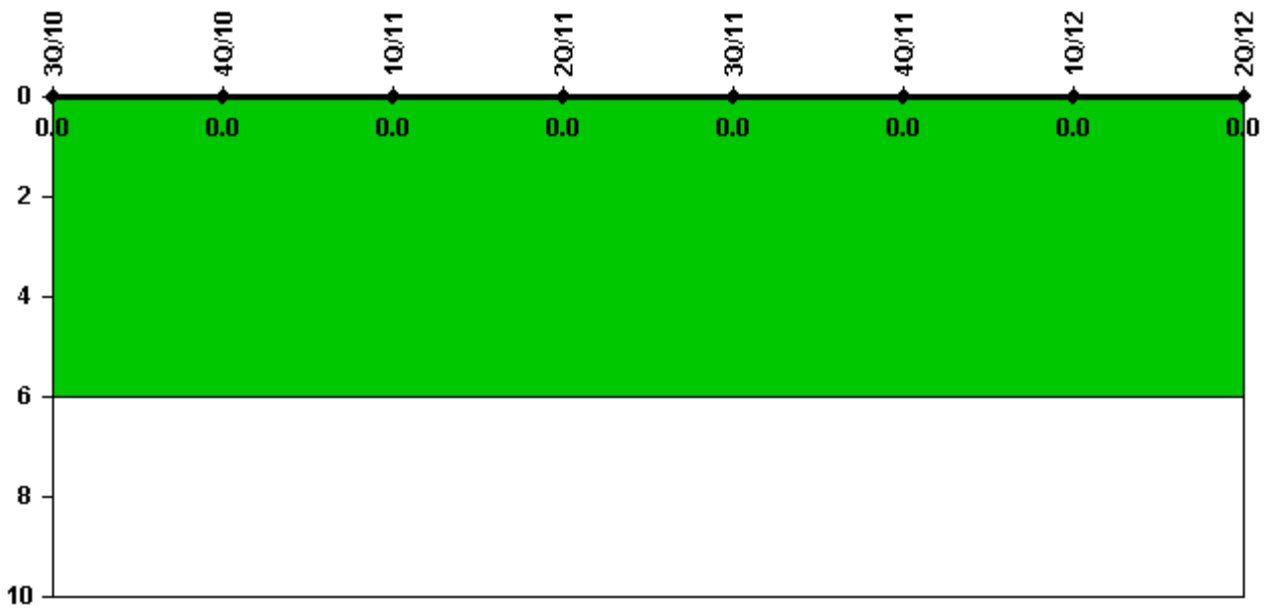
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2208.0	1290.0	2159.0	2027.6	2208.0	2209.0	2183.0	1456.7
Indicator value	0.8	0.9	0.9	0.9	0.9	0.8	0.8	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



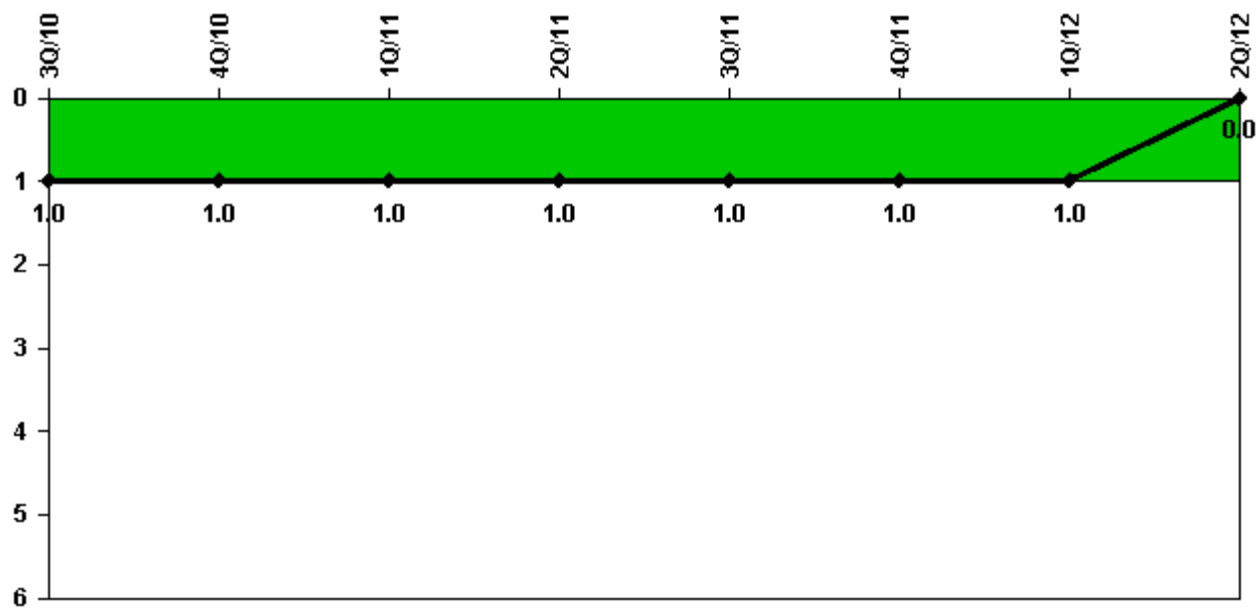
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	1290.0	2159.0	2027.6	2208.0	2209.0	2183.0	1456.7
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



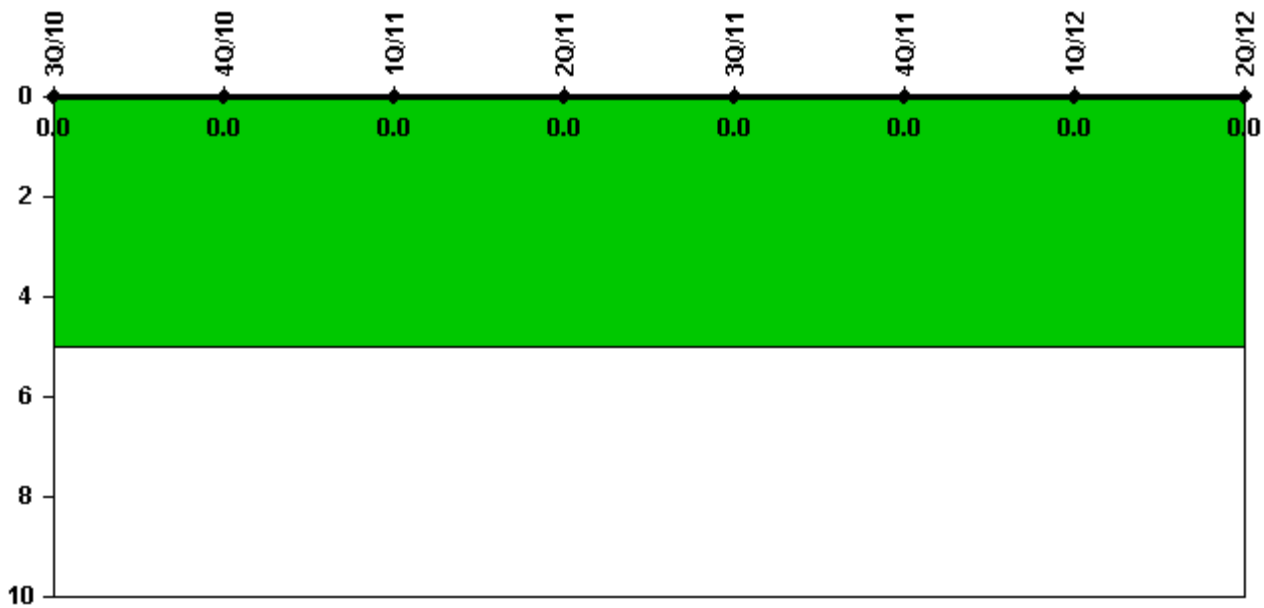
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Scrams with complications	0	0	0	1.0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



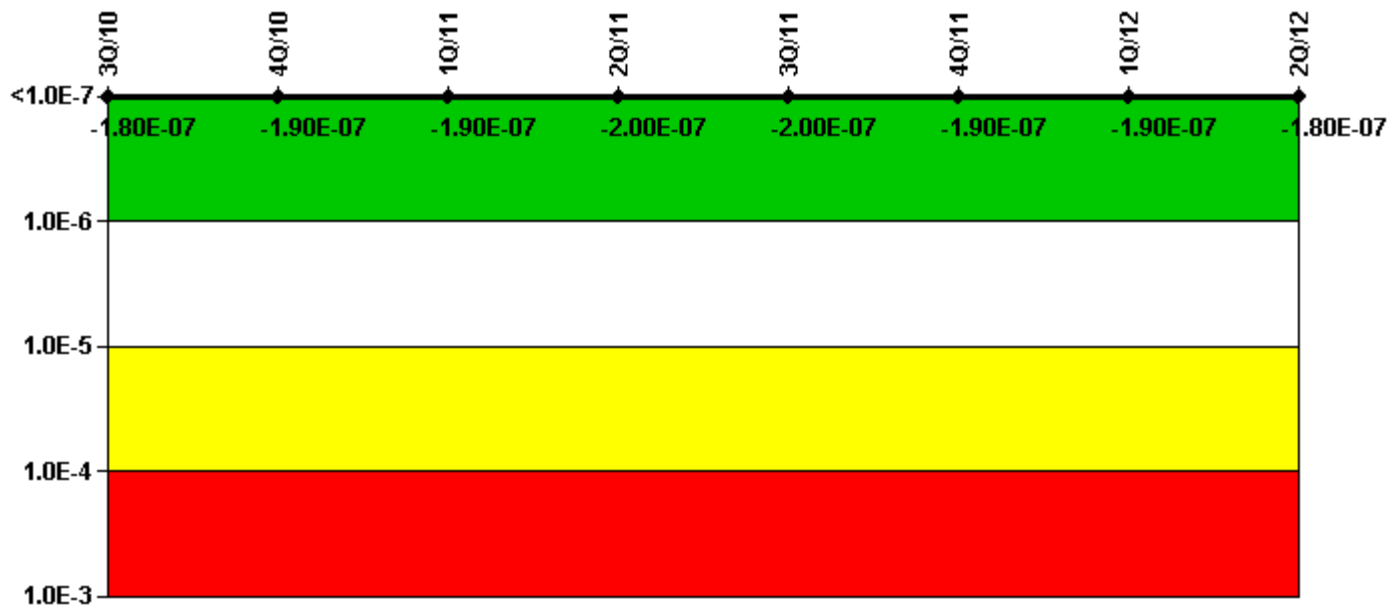
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

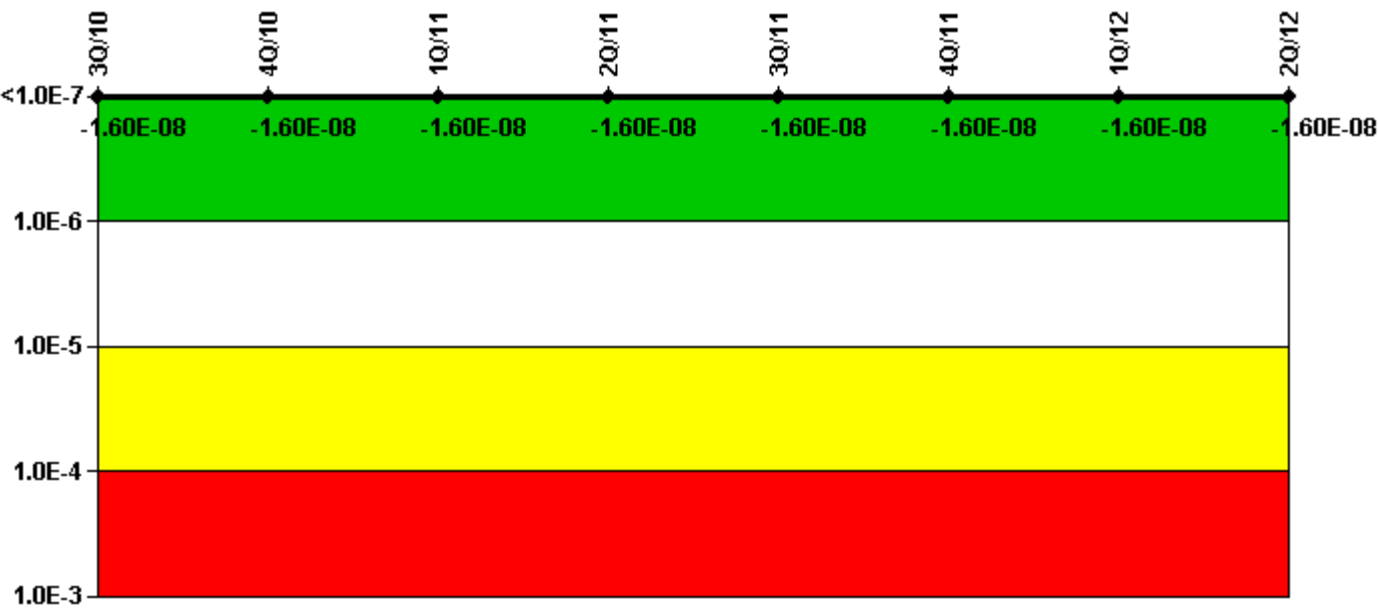
Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-1.65E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08
URI (ΔCDF)	-1.67E-07	-1.69E-07	-1.70E-07	-1.80E-07	-1.80E-07	-1.77E-07	-1.74E-07	-1.68E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.90E-07	-1.90E-07	-2.00E-07	-2.00E-07	-1.90E-07	-1.90E-07	-1.80E-07

Licensee Comments:

1Q/11: An NRC assessment identified several instances of unplanned unavailability and post maintenance test demands that were reported incorrectly. Historical data was corrected with no change in color.

Mitigating Systems Performance Index, High Pressure Injection System



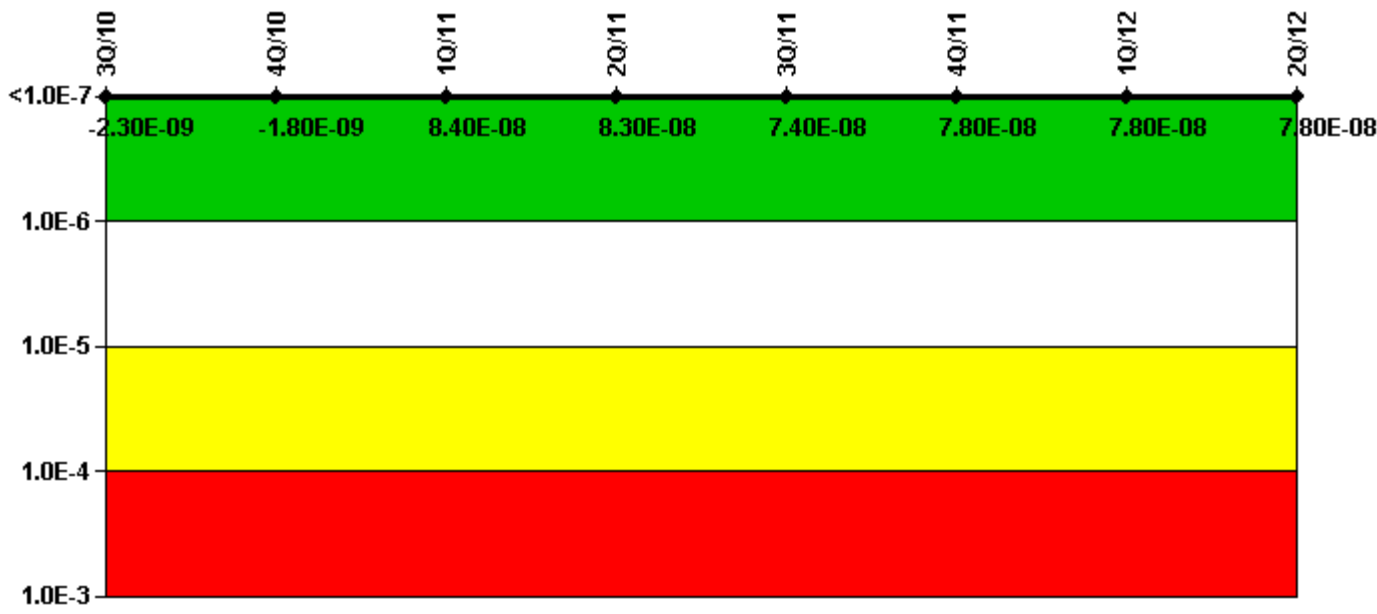
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	-8.32E-10	-8.32E-10	-8.32E-10	-8.38E-10	-8.38E-10	-9.26E-10	-7.52E-10	-7.51E-10
URI (Δ CDF)	-1.52E-08	-1.50E-08	-1.50E-08	-1.52E-08	-1.52E-08	-1.52E-08	-1.52E-08	-1.53E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



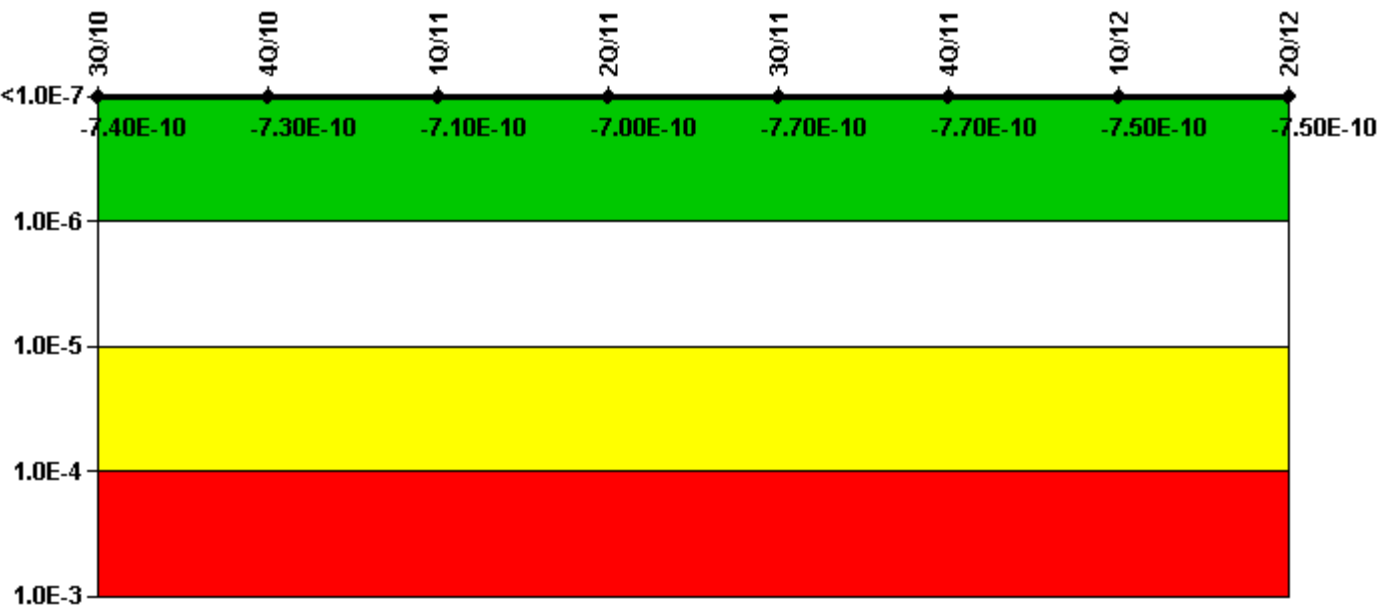
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	1.36E-08	1.35E-08	1.44E-08	1.51E-08	6.57E-09	1.04E-08	7.92E-09	8.75E-09
URI (ΔCDF)	-1.59E-08	-1.53E-08	6.97E-08	6.79E-08	6.79E-08	6.79E-08	6.96E-08	6.96E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-09	-1.80E-09	8.40E-08	8.30E-08	7.40E-08	7.80E-08	7.80E-08	7.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



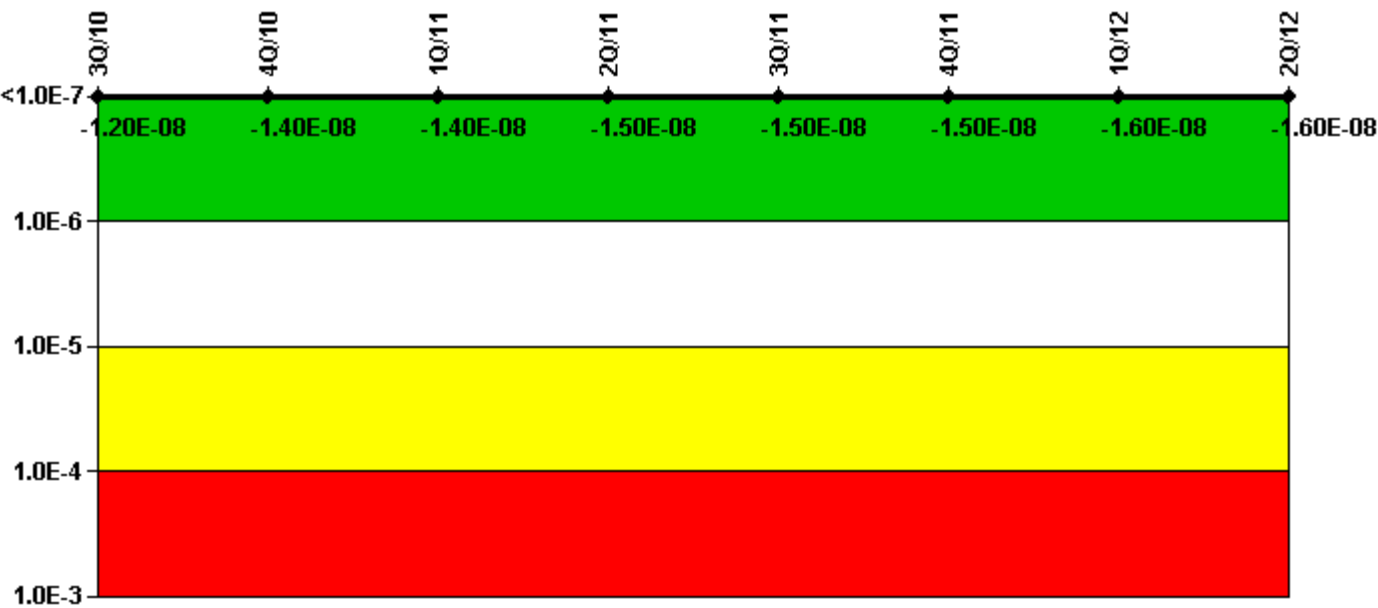
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	2.14E-10	2.07E-10	2.25E-10	2.34E-10	1.68E-10	1.66E-10	1.81E-10	1.85E-10
URI (ΔCDF)	-9.57E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.31E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.40E-10	-7.30E-10	-7.10E-10	-7.00E-10	-7.70E-10	-7.70E-10	-7.50E-10	-7.50E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



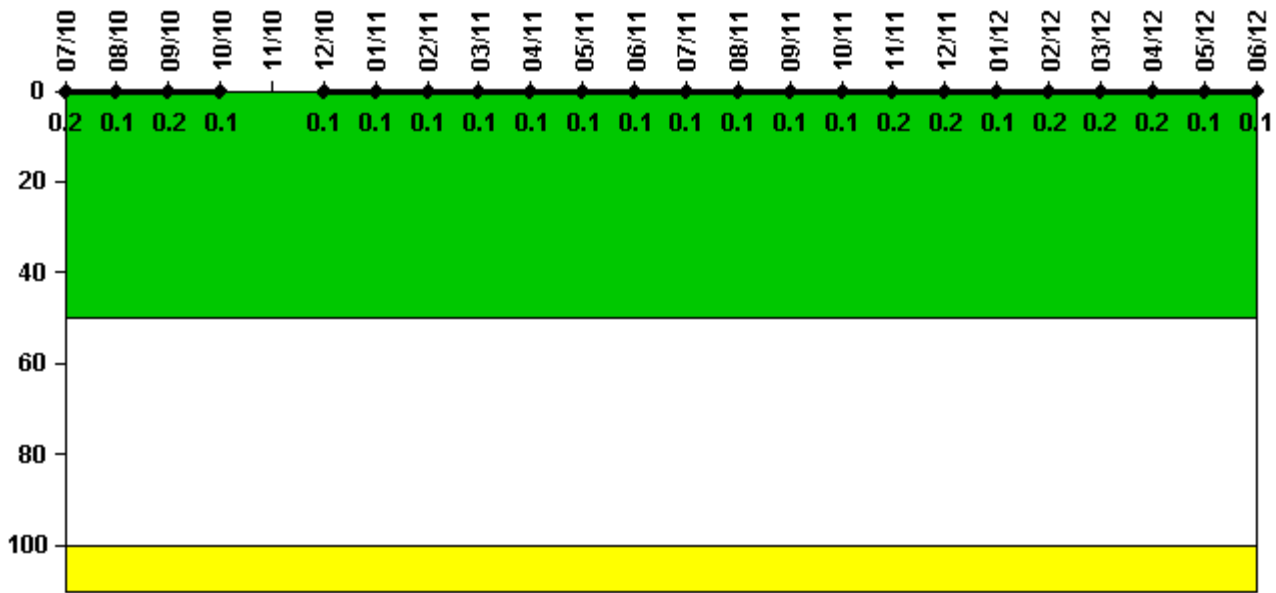
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	7.35E-09	5.24E-09	5.56E-09	5.83E-09	5.39E-09	5.15E-09	4.47E-09	4.03E-09
URI (ΔCDF)	-1.94E-08	-1.97E-08	-1.97E-08	-2.04E-08	-2.04E-08	-2.04E-08	-2.05E-08	-2.02E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-08	-1.40E-08	-1.40E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

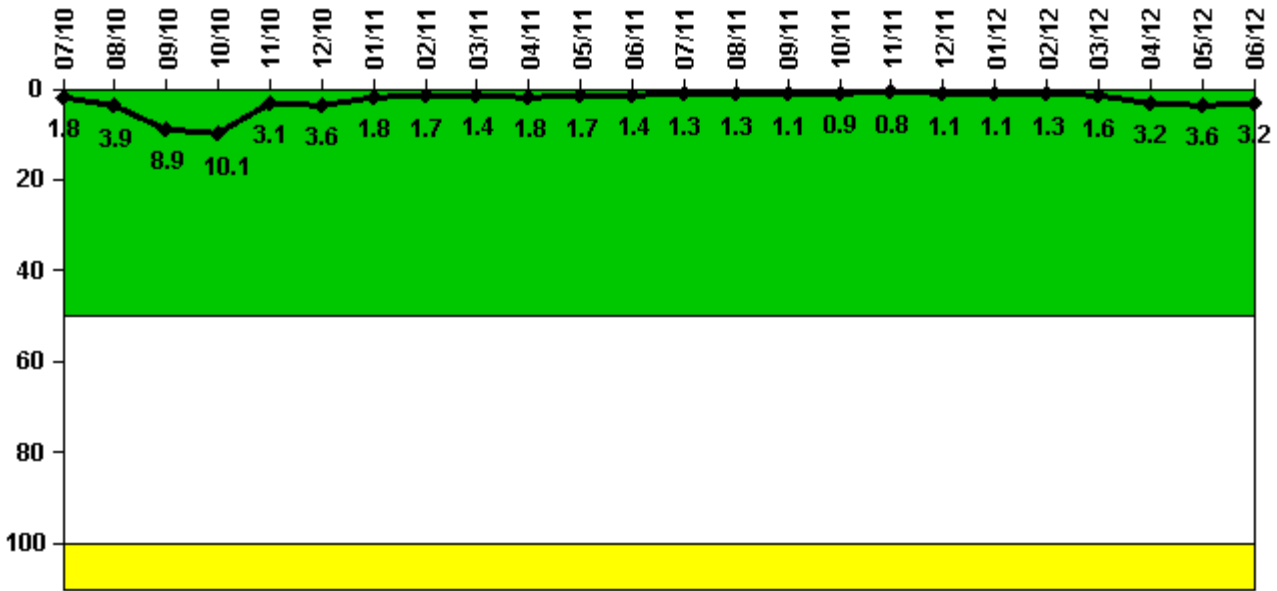
Notes

Reactor Coolant System Activity	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.001550	0.001420	0.002170	0.001350	N/A	0.000958	0.001130	0.000738	0.000849	0.000756	0.000998	0.000949
Technical specification limit	1.0	1.0	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	0.1	N/A	0.1	0.1	0.1	0.1	0.1	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	0.000985	0.000998	0.001030	0.001110	0.001550	0.001760	0.001200	0.002160	0.001610	0.001840	0.001210	0.000598
Technical specification limit	1.0	1.0	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	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



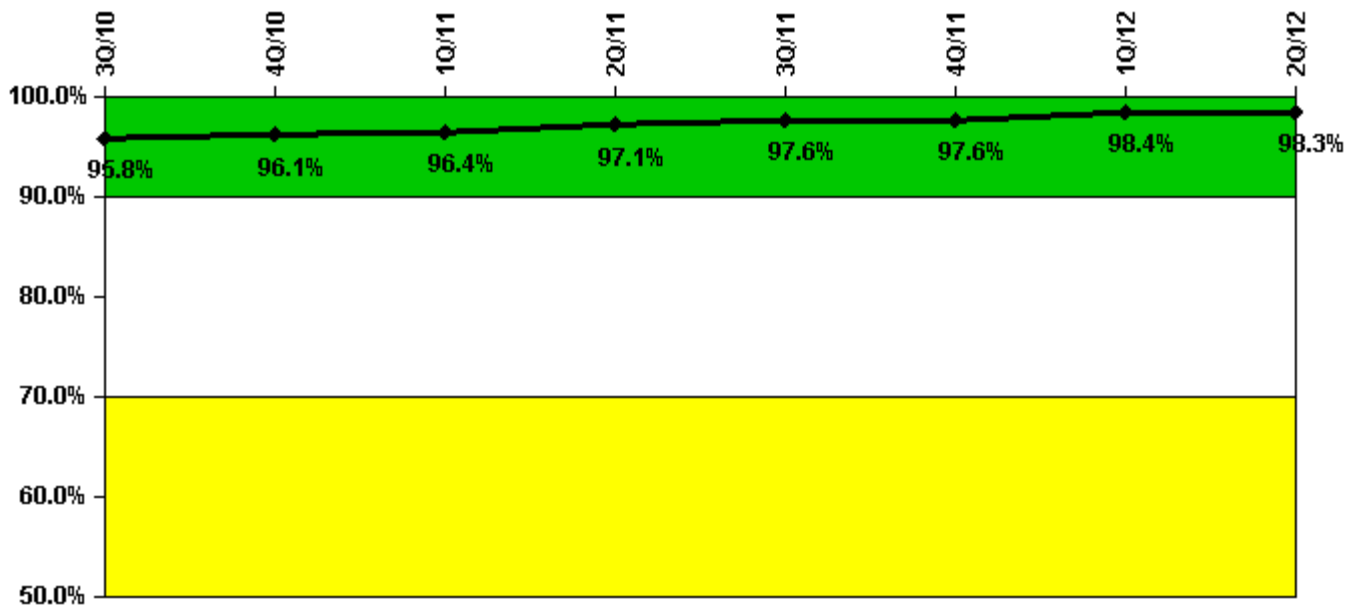
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum leakage	0.180	0.390	0.890	1.010	0.310	0.360	0.180	0.170	0.140	0.180	0.170	0.140
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.8	3.9	8.9	10.1	3.1	3.6	1.8	1.7	1.4	1.8	1.7	1.4
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	0.130	0.130	0.110	0.090	0.080	0.110	0.110	0.130	0.160	0.320	0.360	0.320
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.3	1.1	0.9	0.8	1.1	1.1	1.3	1.6	3.2	3.6	3.2

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

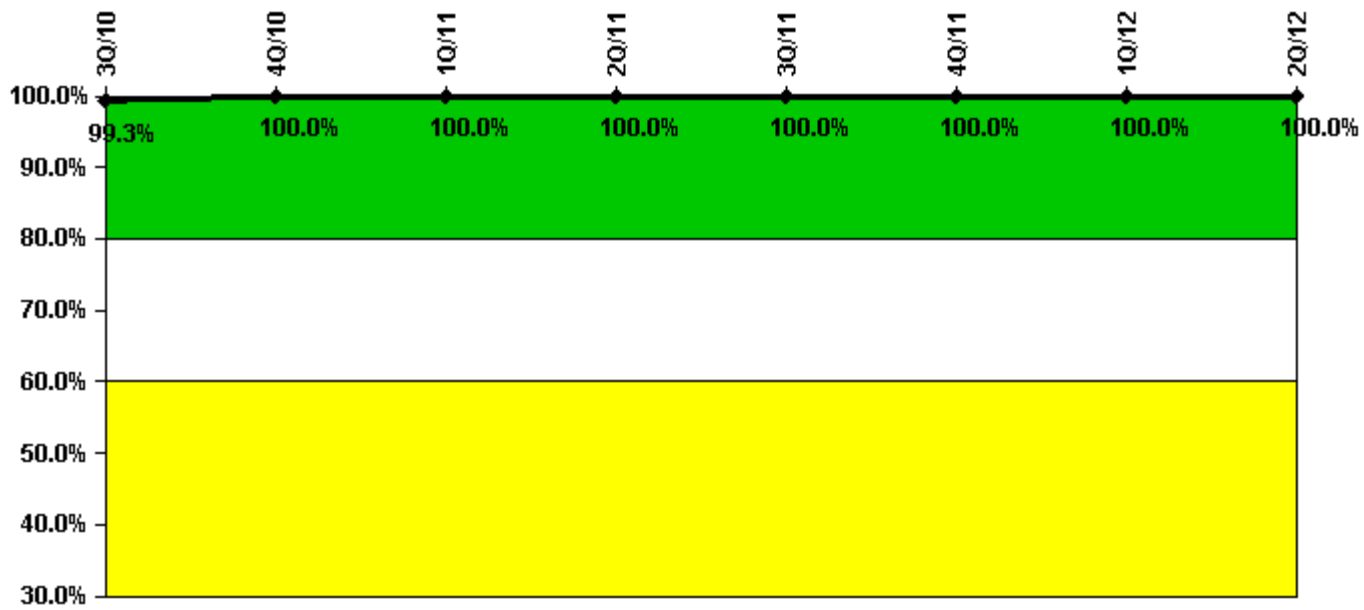
Notes

Drill/Exercise Performance	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful opportunities	41.0	15.0	31.0	27.0	31.0	27.0	38.0	24.0
Total opportunities	41.0	15.0	32.0	28.0	31.0	27.0	38.0	26.0
Indicator value	95.8%	96.1%	96.4%	97.1%	97.6%	97.6%	98.4%	98.3%

Licensee Comments:

3Q/11: An NRC assessment determined a missed classification occurred in June 2011. Historical data was corrected with no change in color.

ERO Drill Participation



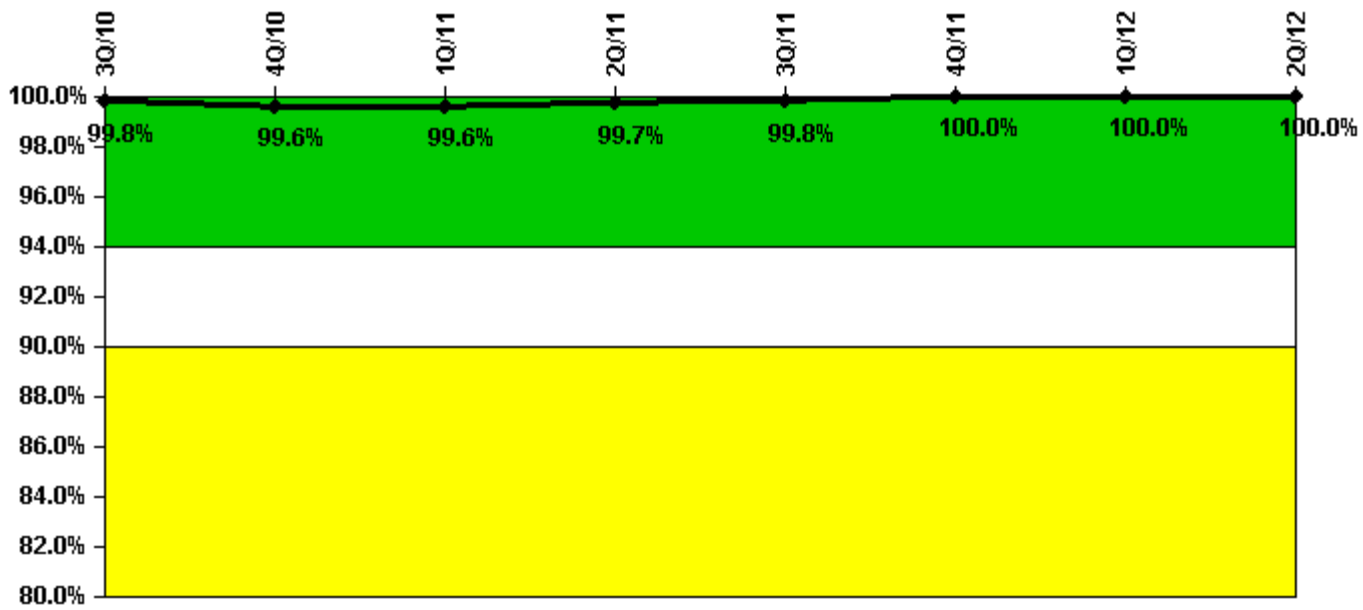
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Participating Key personnel	143.0	128.0	132.0	139.0	138.0	141.0	153.0	150.0
Total Key personnel	144.0	128.0	132.0	139.0	138.0	141.0	153.0	150.0
Indicator value	99.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

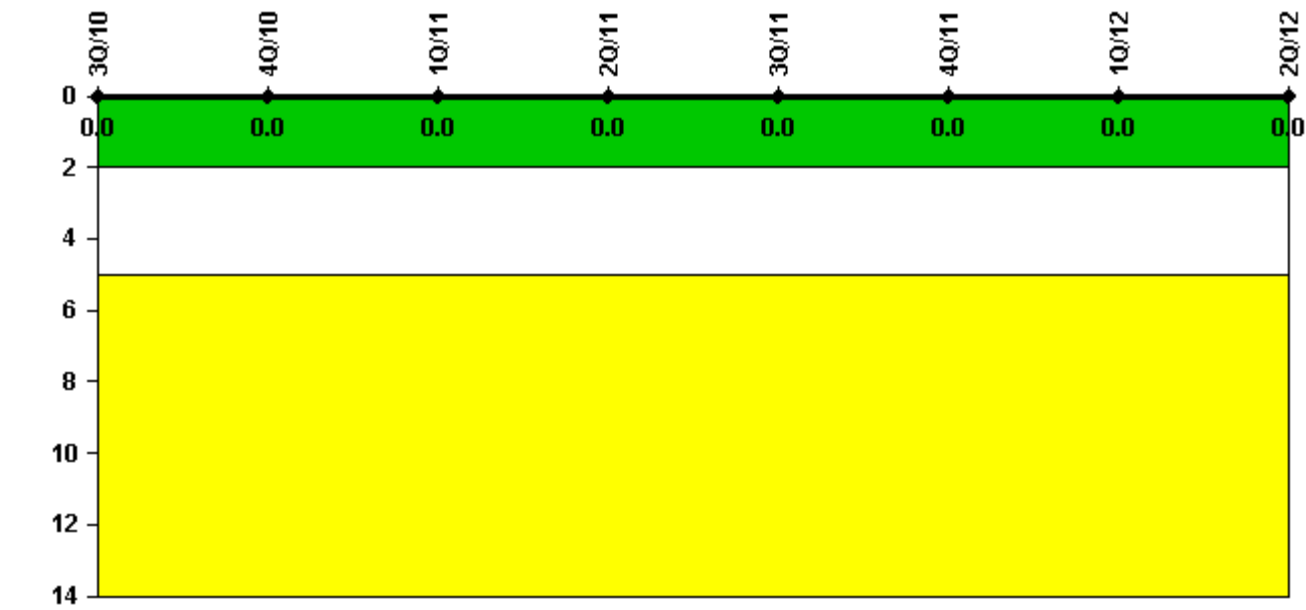
Notes

Alert & Notification System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful siren-tests	473	540	476	544	476	544	476	544
Total sirens-tests	476	544	476	544	476	544	476	544
Indicator value	99.8%	99.6%	99.6%	99.7%	99.8%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/11: A self-assessment identified a siren activation test was not counted in March 2011. Historical data was corrected with no change in color.

Occupational Exposure Control Effectiveness



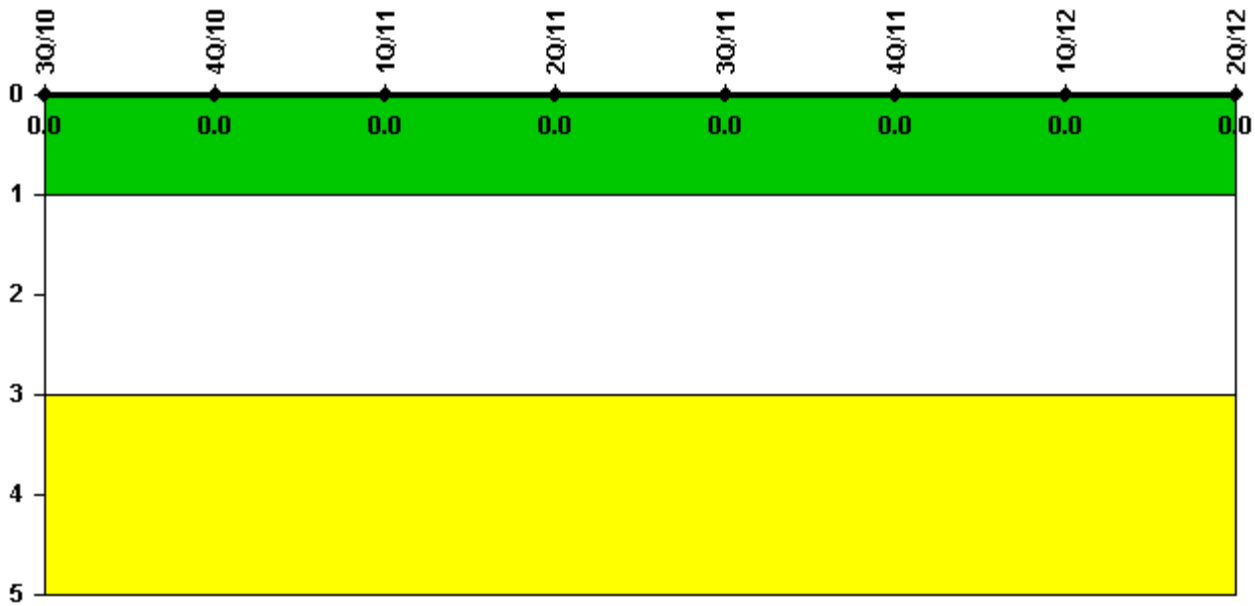
Thresholds: White > 2.0 Yellow > 5.0

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

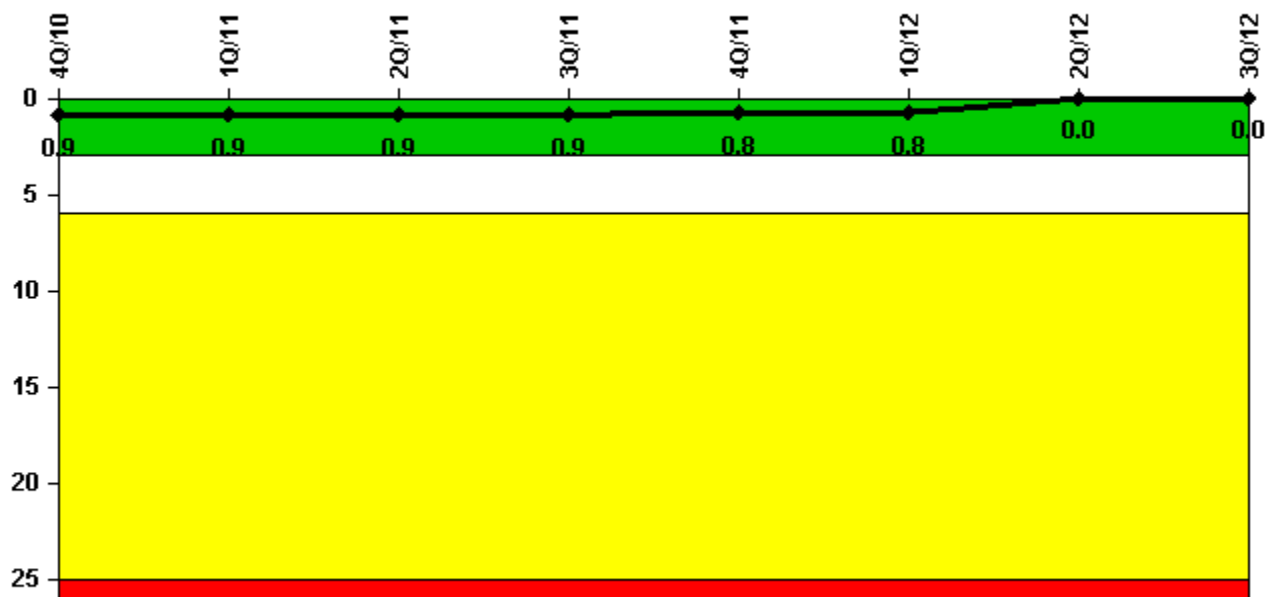
Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information 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.

Surry 1

3Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



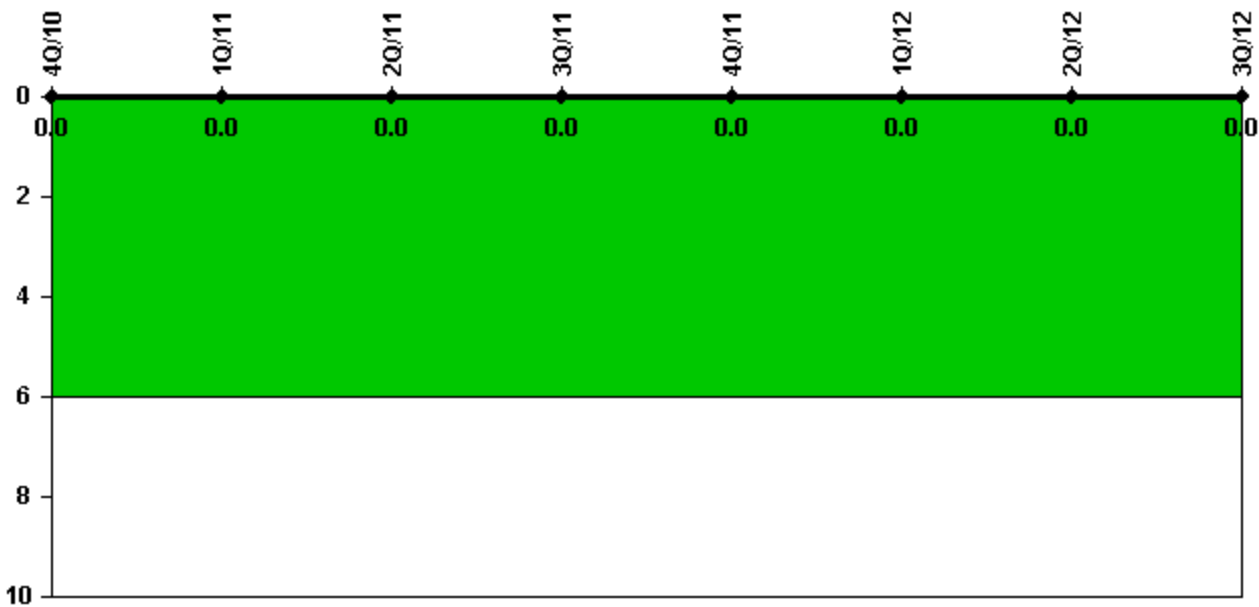
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	1290.0	2159.0	2027.6	2208.0	2209.0	2183.0	1456.7	2208.0
Indicator value	0.9	0.9	0.9	0.9	0.8	0.8	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



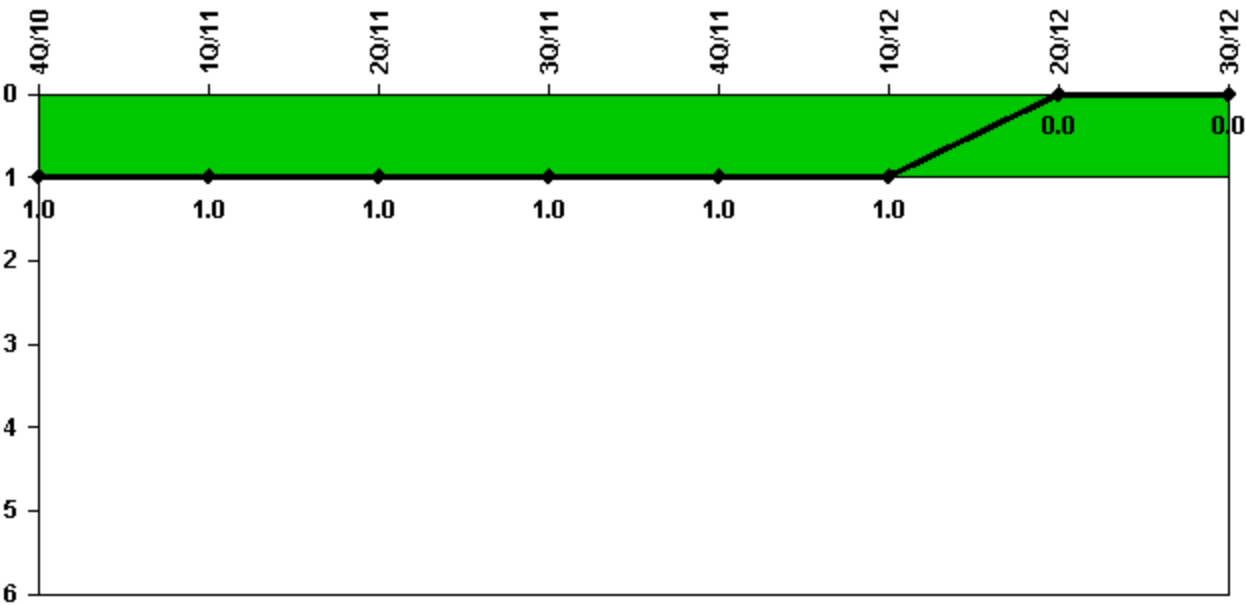
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1290.0	2159.0	2027.6	2208.0	2209.0	2183.0	1456.7	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



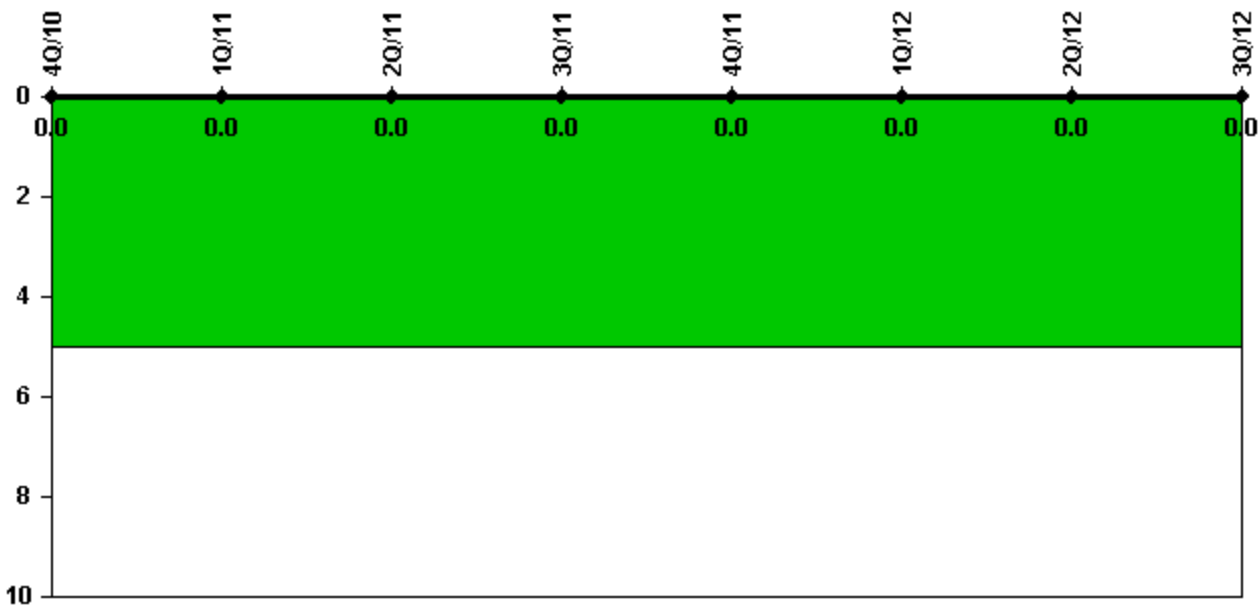
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Scrams with complications	0	0	1.0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



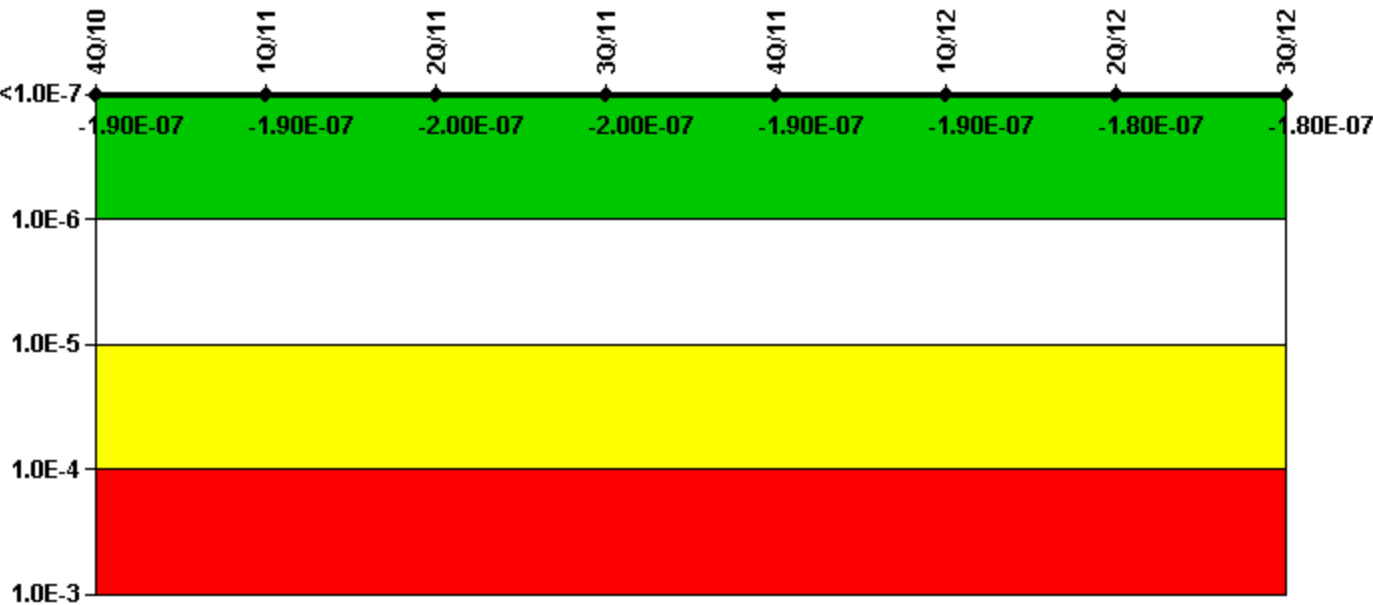
Thresholds: White > 5.0

Notes

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

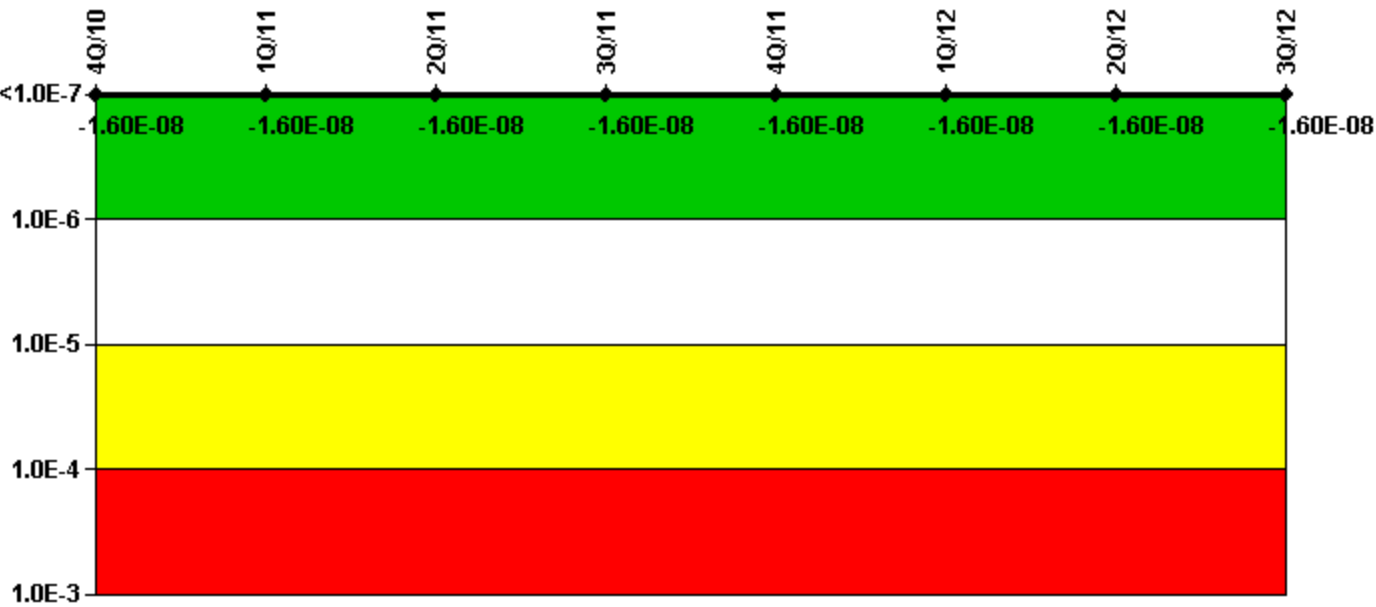
Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08
URI (ΔCDF)	-1.69E-07	-1.70E-07	-1.80E-07	-1.80E-07	-1.77E-07	-1.74E-07	-1.68E-07	-1.66E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-07	-1.90E-07	-2.00E-07	-2.00E-07	-1.90E-07	-1.90E-07	-1.80E-07	-1.80E-07

Licensee Comments:

1Q/11: An NRC assessment identified several instances of unplanned unavailability and post maintenance test demands that were reported incorrectly. Historical data was corrected with no change in color.

Mitigating Systems Performance Index, High Pressure Injection System



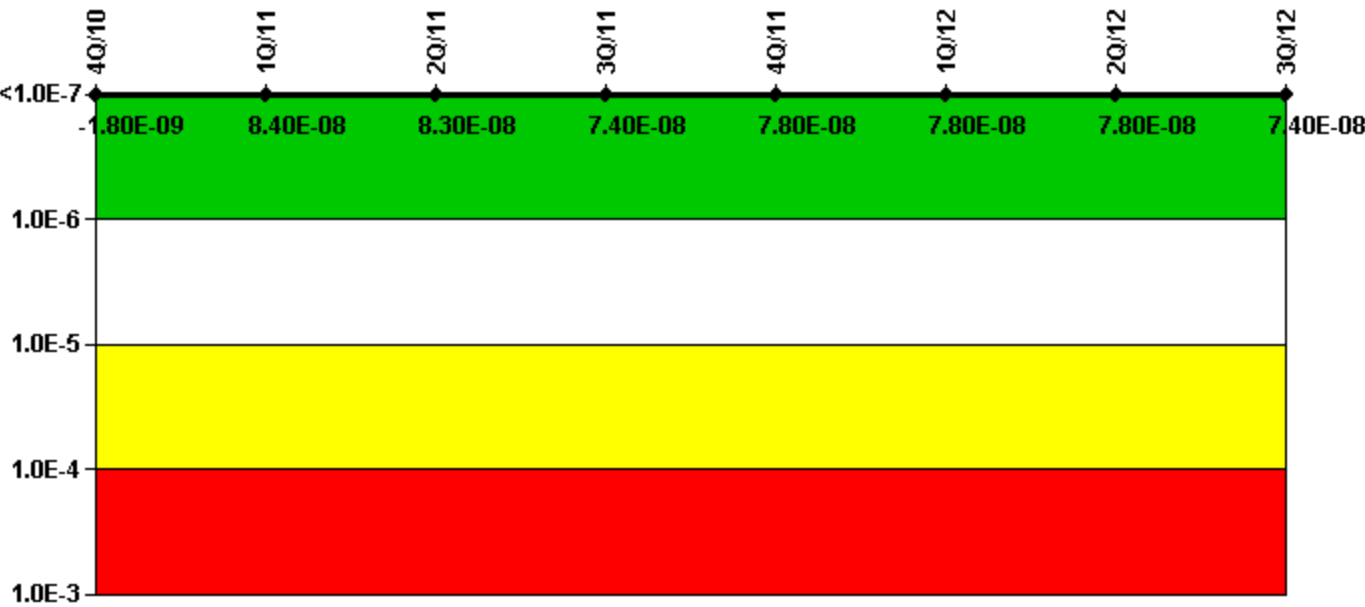
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	-8.32E-10	-8.32E-10	-8.38E-10	-8.38E-10	-9.26E-10	-7.52E-10	-7.51E-10	-7.51E-10
URI (ΔCDF)	-1.50E-08	-1.50E-08	-1.52E-08	-1.52E-08	-1.52E-08	-1.52E-08	-1.53E-08	-1.53E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



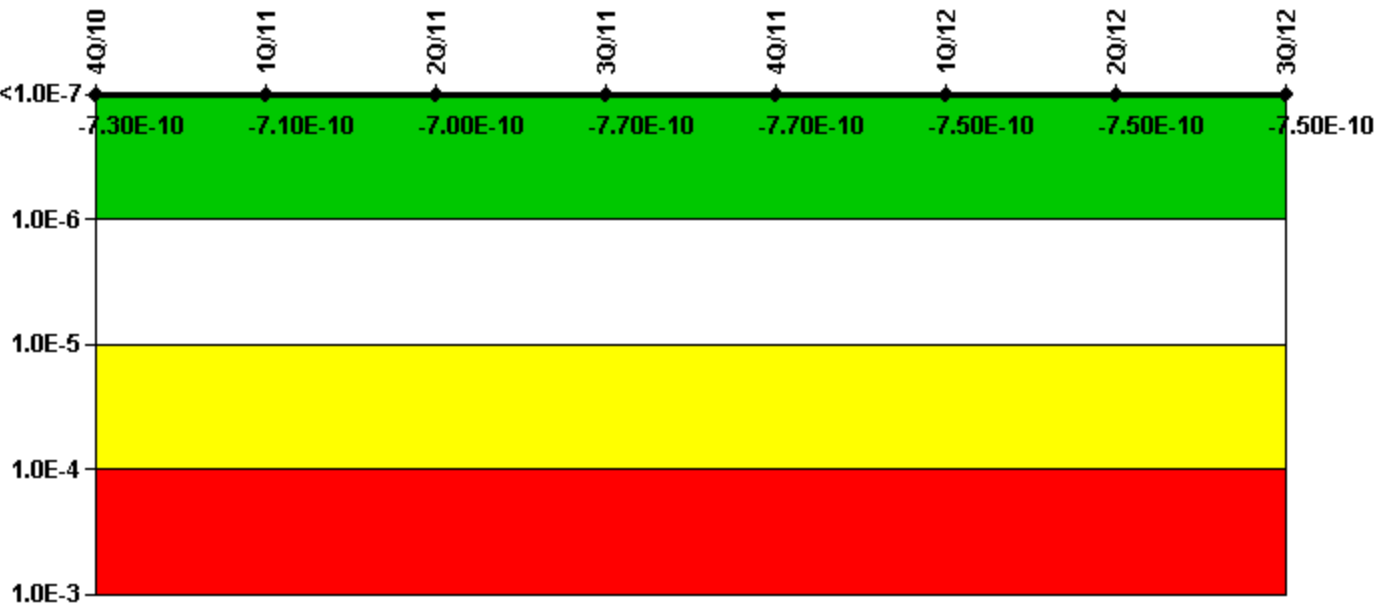
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	1.35E-08	1.44E-08	1.51E-08	6.57E-09	1.04E-08	7.92E-09	8.75E-09	4.80E-09
URI (ΔCDF)	-1.53E-08	6.97E-08	6.79E-08	6.79E-08	6.79E-08	6.96E-08	6.96E-08	6.96E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-09	8.40E-08	8.30E-08	7.40E-08	7.80E-08	7.80E-08	7.80E-08	7.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	2.07E-10	2.25E-10	2.34E-10	1.68E-10	1.66E-10	1.81E-10	1.85E-10	1.85E-10
URI (ΔCDF)	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.31E-10	-9.31E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.30E-10	-7.10E-10	-7.00E-10	-7.70E-10	-7.70E-10	-7.50E-10	-7.50E-10	-7.50E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



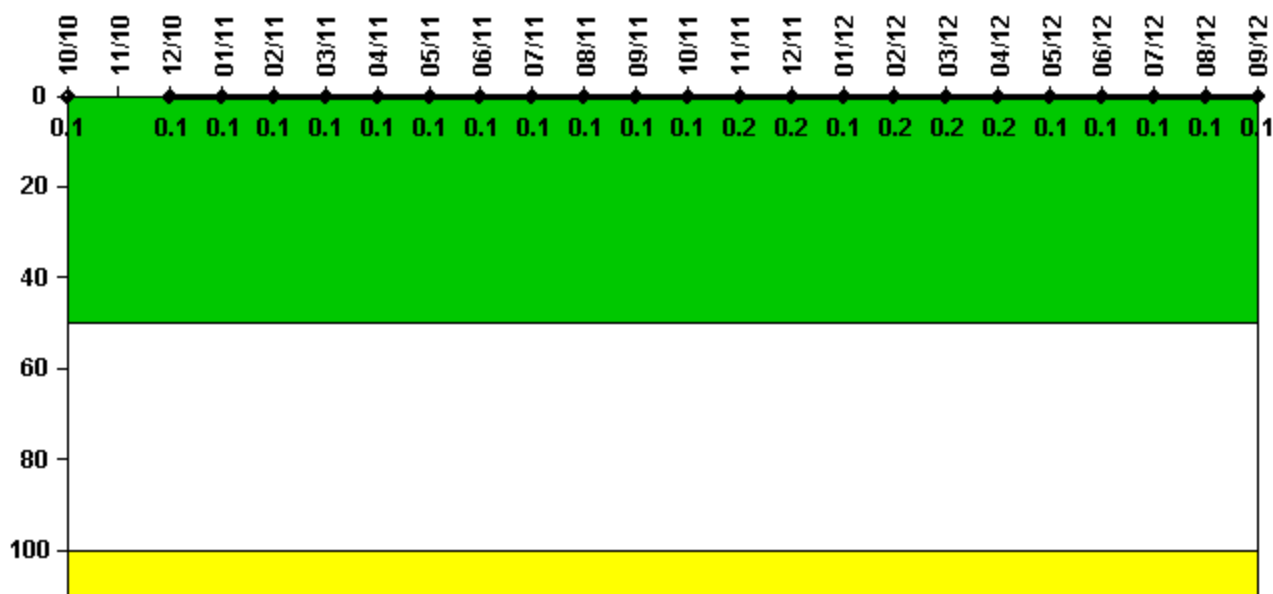
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	5.24E-09	5.56E-09	5.83E-09	5.39E-09	5.15E-09	4.47E-09	4.03E-09	2.40E-09
URI (ΔCDF)	-1.97E-08	-1.97E-08	-2.04E-08	-2.04E-08	-2.04E-08	-2.05E-08	-2.02E-08	-2.01E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	-1.40E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.60E-08	-1.60E-08	-1.80E-08

Licensee Comments: none

Reactor Coolant System Activity



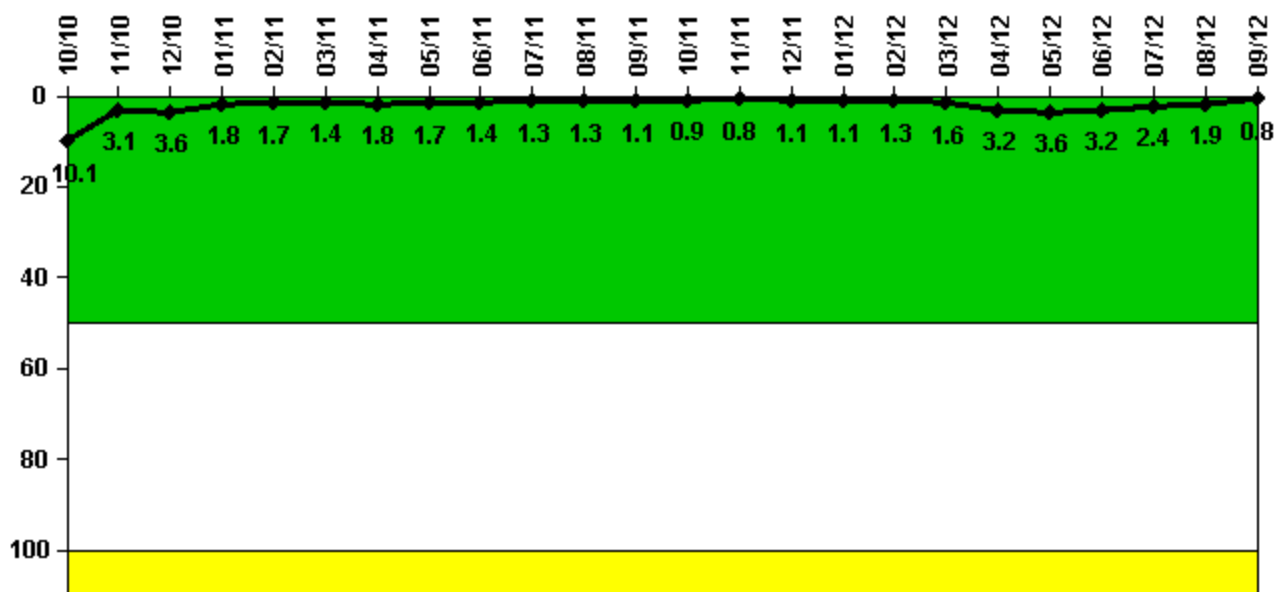
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum activity	0.001350	N/A	0.000958	0.001130	0.000738	0.000849	0.000756	0.000998	0.000949	0.000985	0.000998	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	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	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	0.001110	0.001550	0.001760	0.001200	0.002160	0.001610	0.001840	0.001210	0.000598	0.000737	0.000712	0.000984
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



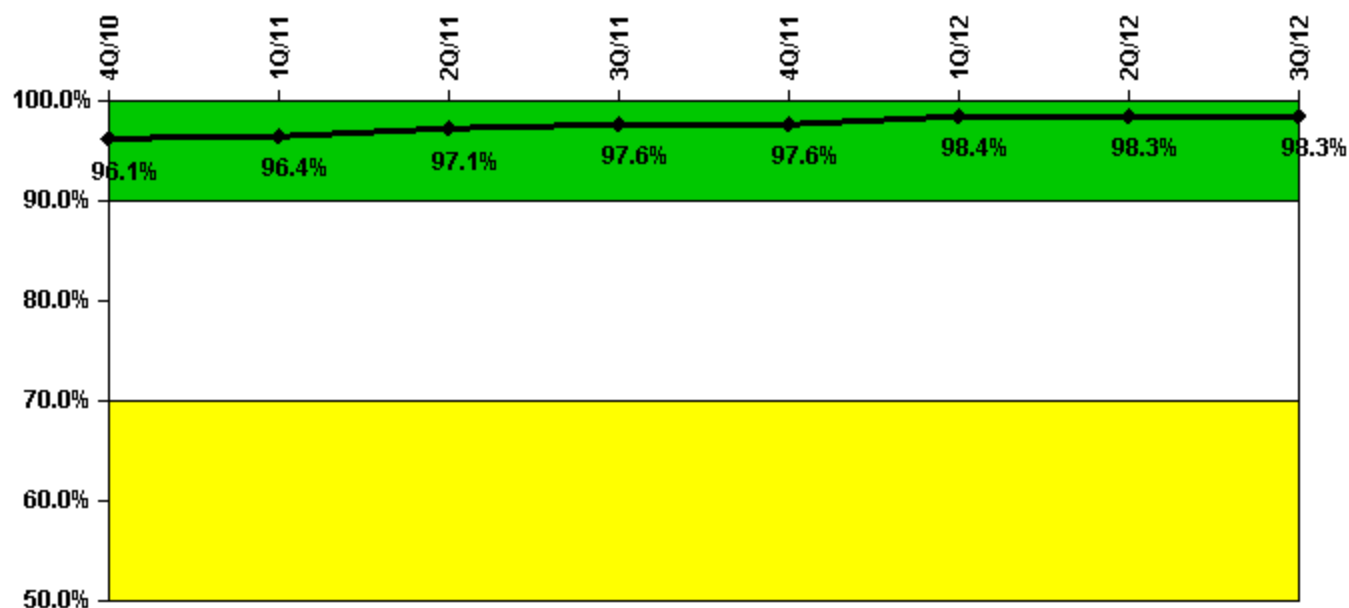
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum leakage	1.010	0.310	0.360	0.180	0.170	0.140	0.180	0.170	0.140	0.130	0.130	0.110
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	10.1	3.1	3.6	1.8	1.7	1.4	1.8	1.7	1.4	1.3	1.3	1.1
Reactor Coolant System Leakage	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum leakage	0.090	0.080	0.110	0.110	0.130	0.160	0.320	0.360	0.320	0.240	0.190	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	0.9	0.8	1.1	1.1	1.3	1.6	3.2	3.6	3.2	2.4	1.9	0.8

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

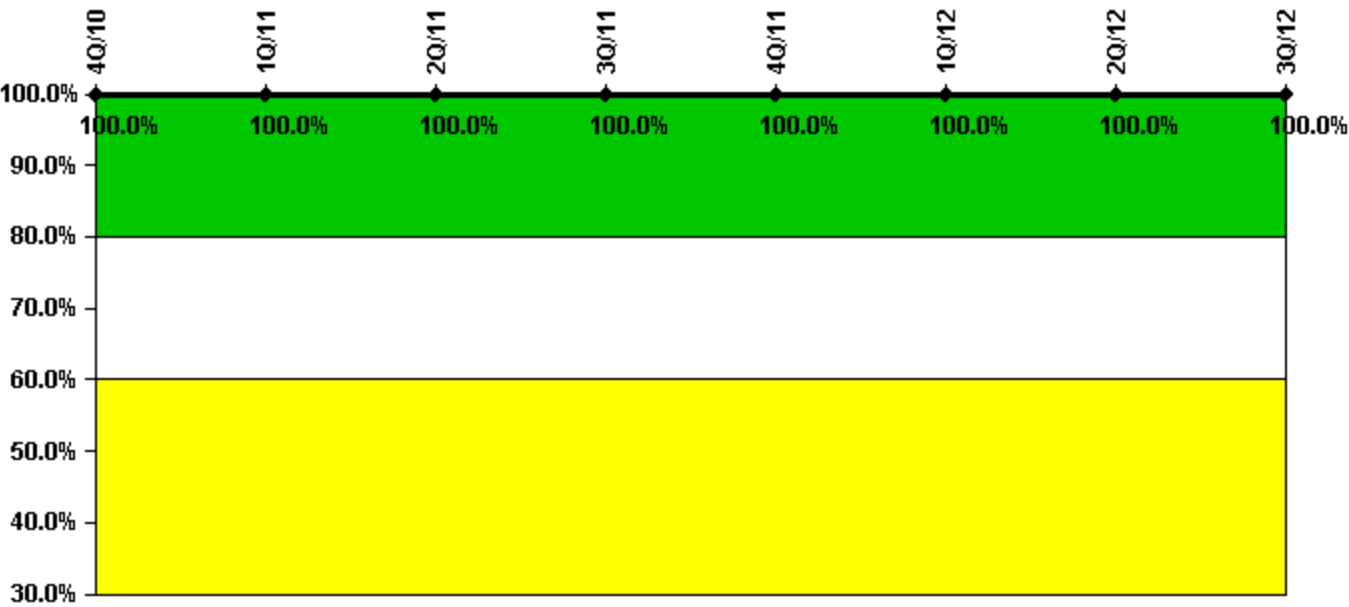
Notes

Drill/Exercise Performance	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful opportunities	15.0	31.0	27.0	31.0	27.0	38.0	24.0	32.0
Total opportunities	15.0	32.0	28.0	31.0	27.0	38.0	26.0	32.0
Indicator value	96.1%	96.4%	97.1%	97.6%	97.6%	98.4%	98.3%	98.3%

Licensee Comments:

3Q/11: An NRC assessment determined a missed classification occurred in June 2011. Historical data was corrected with no change in color.

ERO Drill Participation



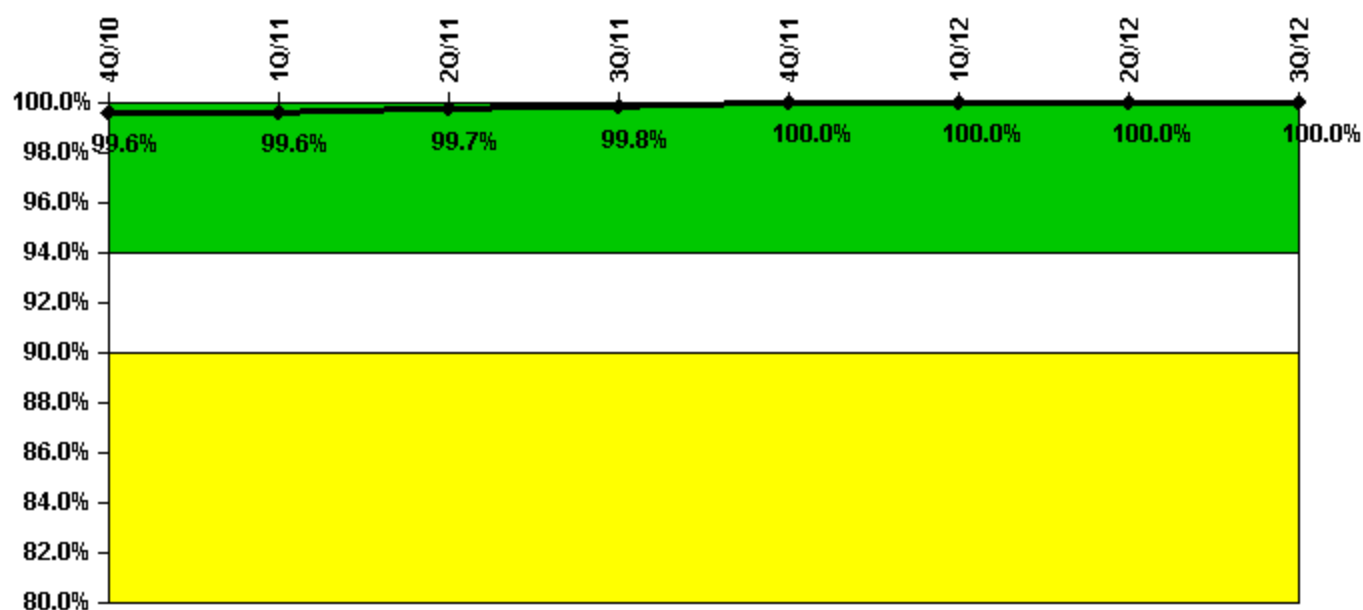
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Participating Key personnel	128.0	132.0	139.0	138.0	141.0	153.0	150.0	151.0
Total Key personnel	128.0	132.0	139.0	138.0	141.0	153.0	150.0	151.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

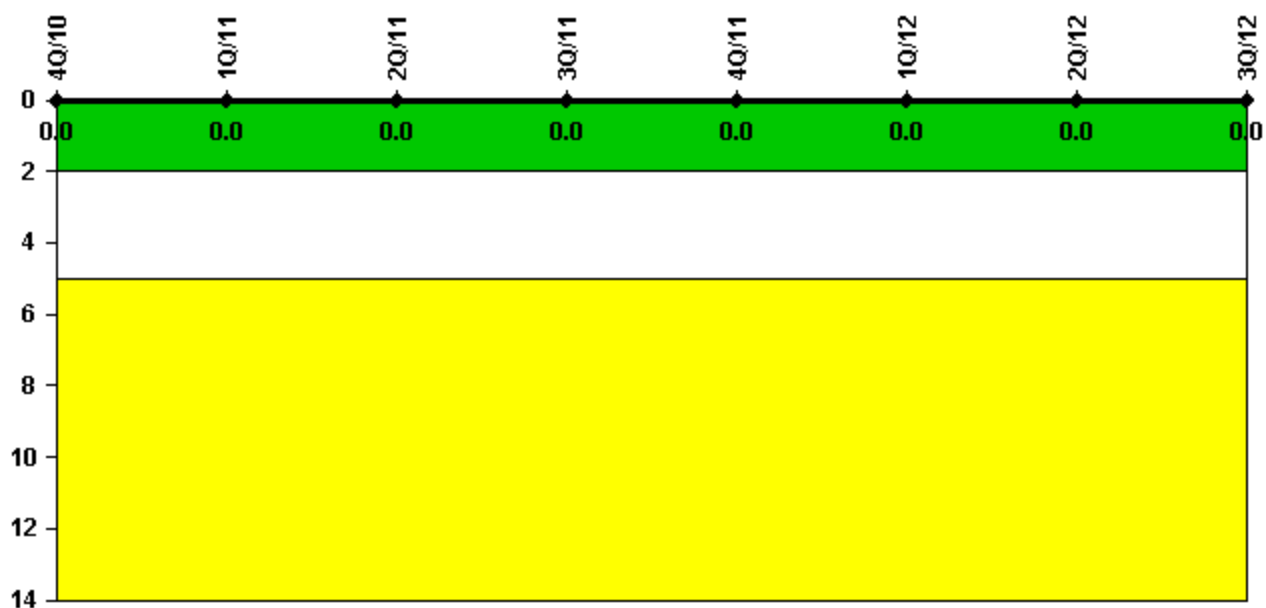
Notes

Alert & Notification System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful siren-tests	540	476	544	476	544	476	544	476
Total sirens-tests	544	476	544	476	544	476	544	476
Indicator value	99.6%	99.6%	99.7%	99.8%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/11: A self-assessment identified a siren activation test was not counted in March 2011. Historical data was corrected with no change in color.

Occupational Exposure Control Effectiveness



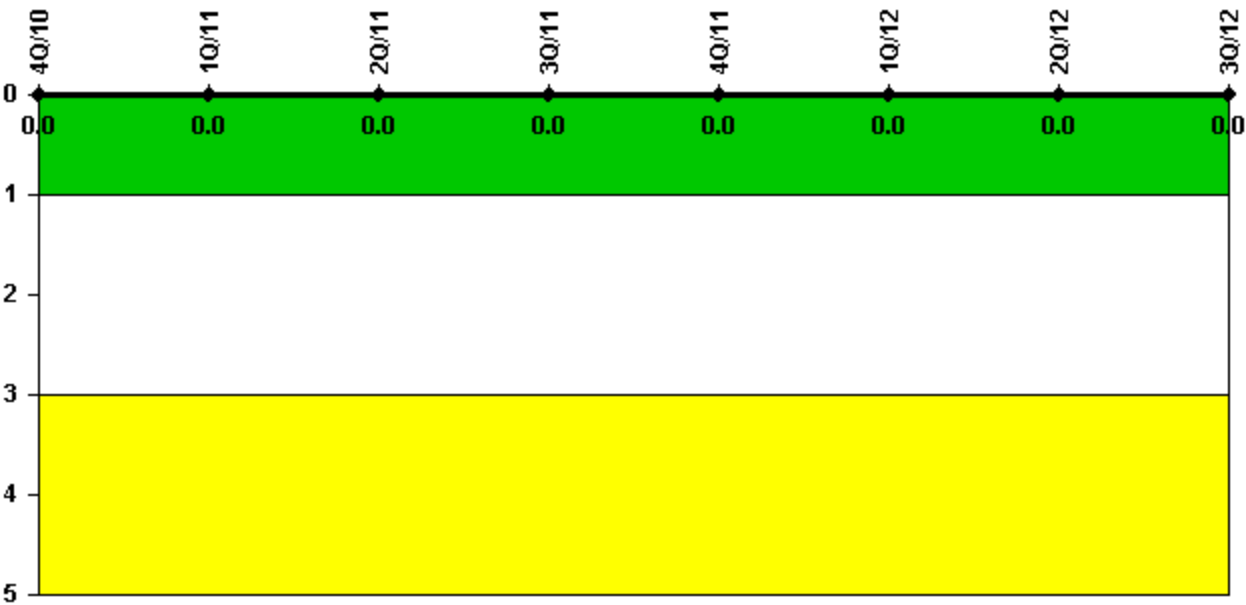
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

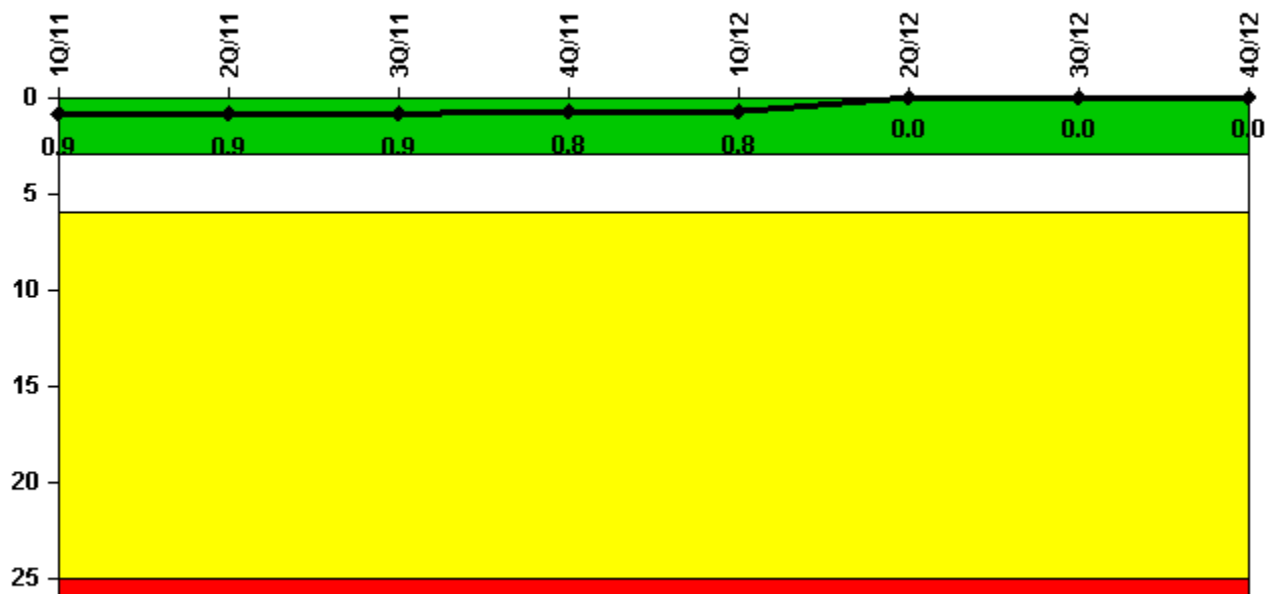
Last Modified: October 24, 2012

Surry 1

4Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



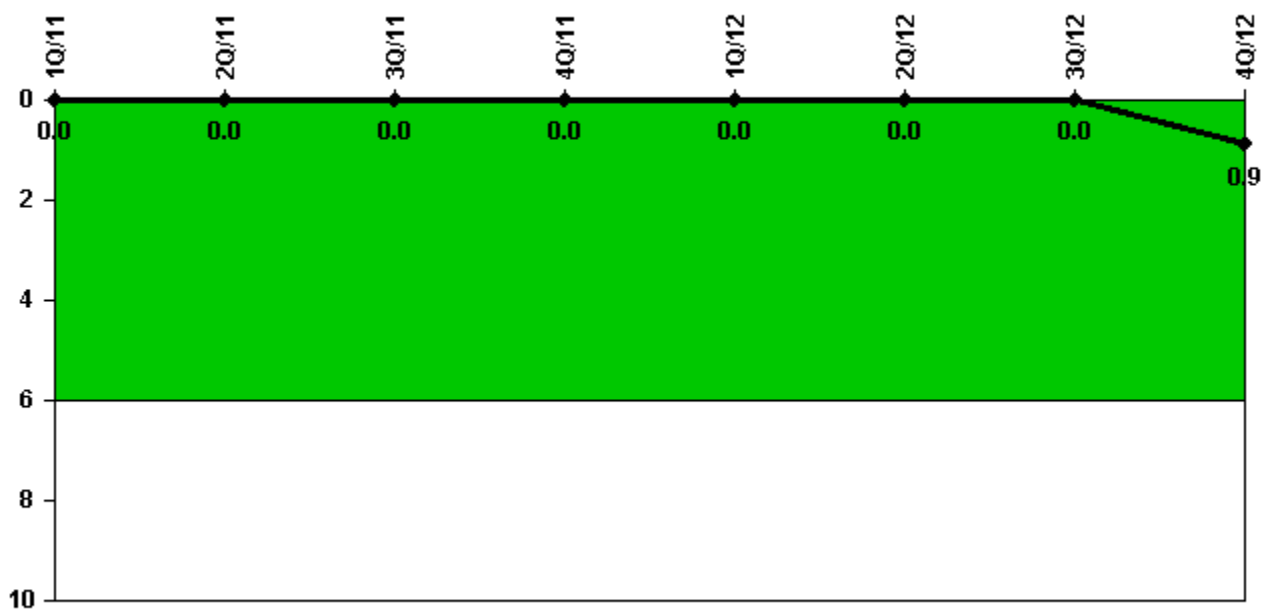
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2159.0	2027.6	2208.0	2209.0	2183.0	1456.7	2208.0	2209.0
Indicator value	0.9	0.9	0.9	0.8	0.8	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



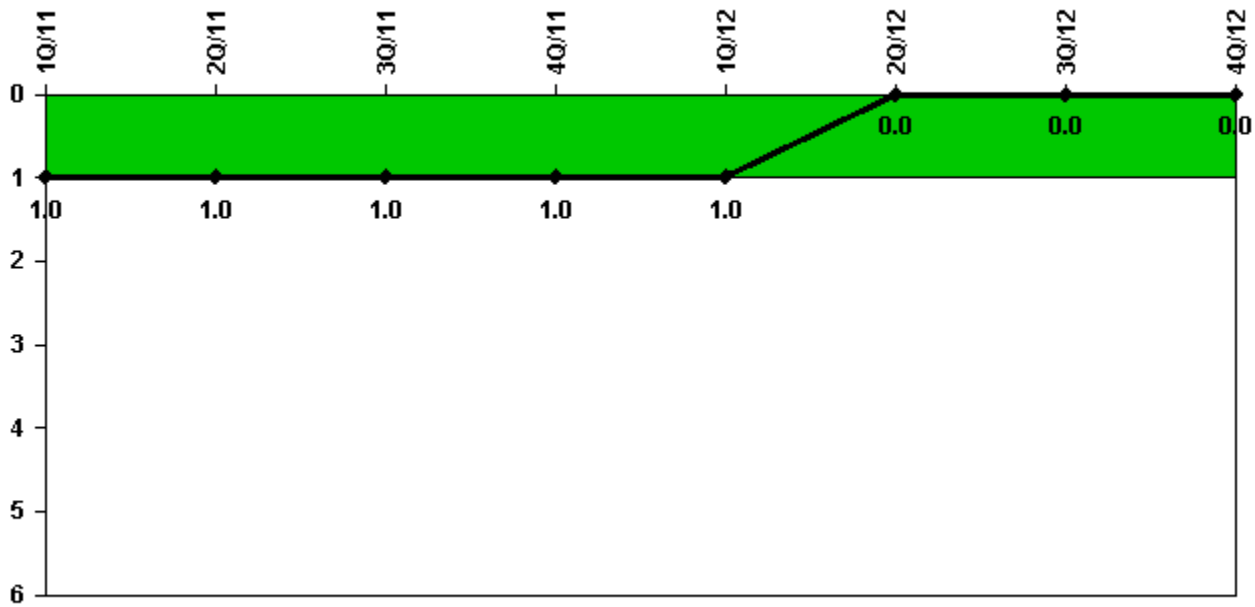
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2159.0	2027.6	2208.0	2209.0	2183.0	1456.7	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0.9

Licensee Comments: none

Unplanned Scrams with Complications



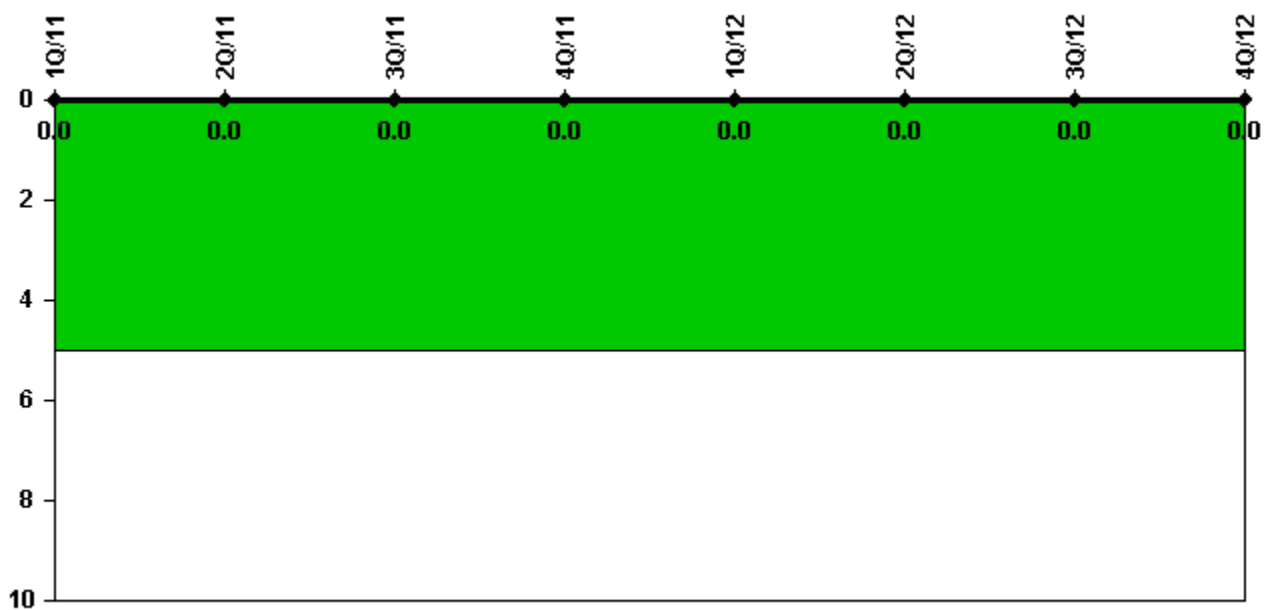
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Scrams with complications	0	1.0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



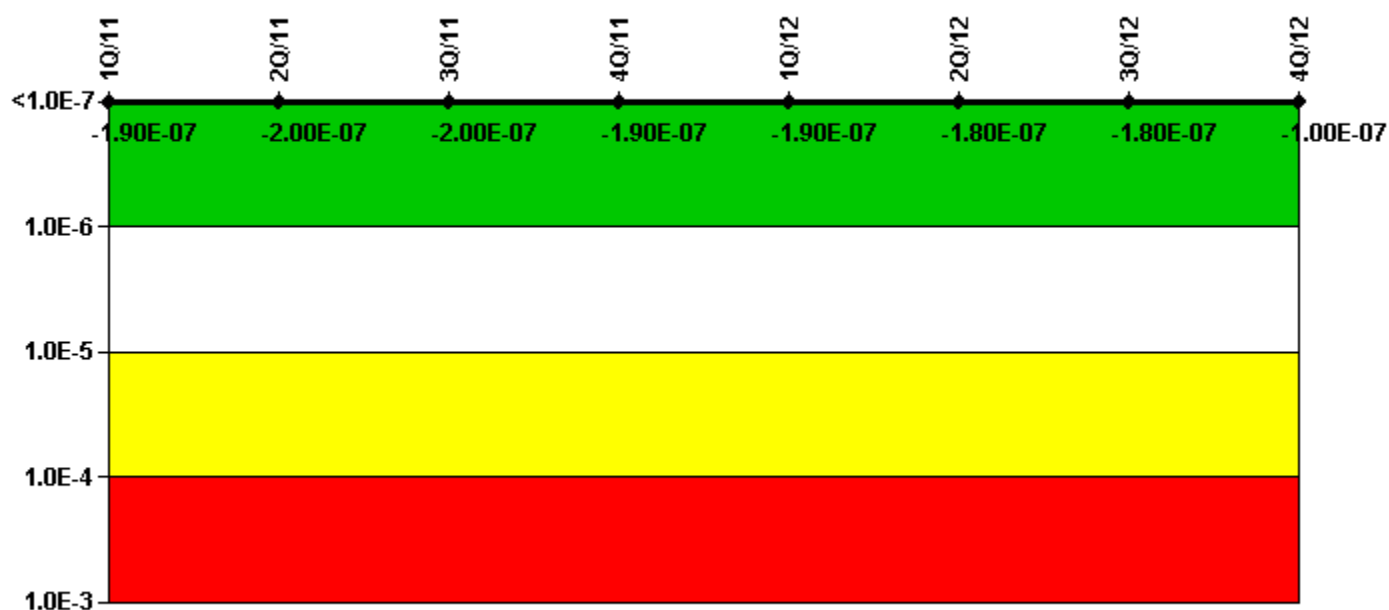
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

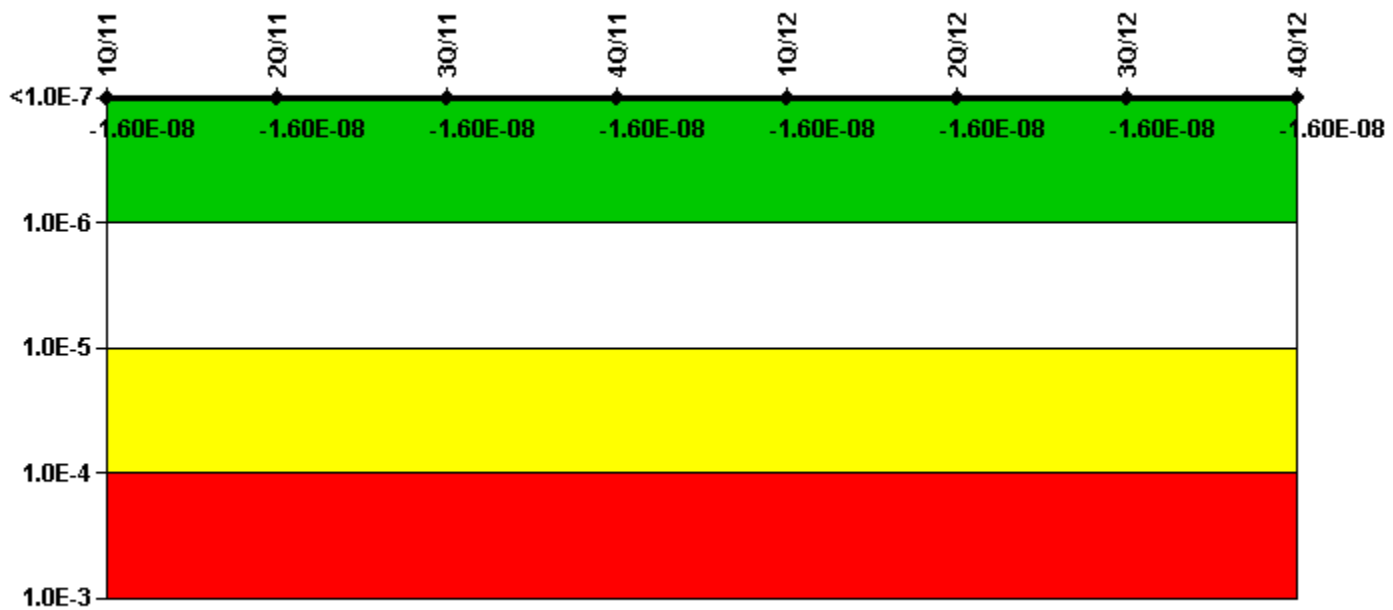
Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.39E-08
URI (Δ CDF)	-1.70E-07	-1.80E-07	-1.80E-07	-1.77E-07	-1.74E-07	-1.68E-07	-1.66E-07	-8.66E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-07	-2.00E-07	-2.00E-07	-1.90E-07	-1.90E-07	-1.80E-07	-1.80E-07	-1.00E-07

Licensee Comments:

1Q/11: An NRC assessment identified several instances of unplanned unavailability and post maintenance test demands that were reported incorrectly. Historical data was corrected with no change in color.

Mitigating Systems Performance Index, High Pressure Injection System



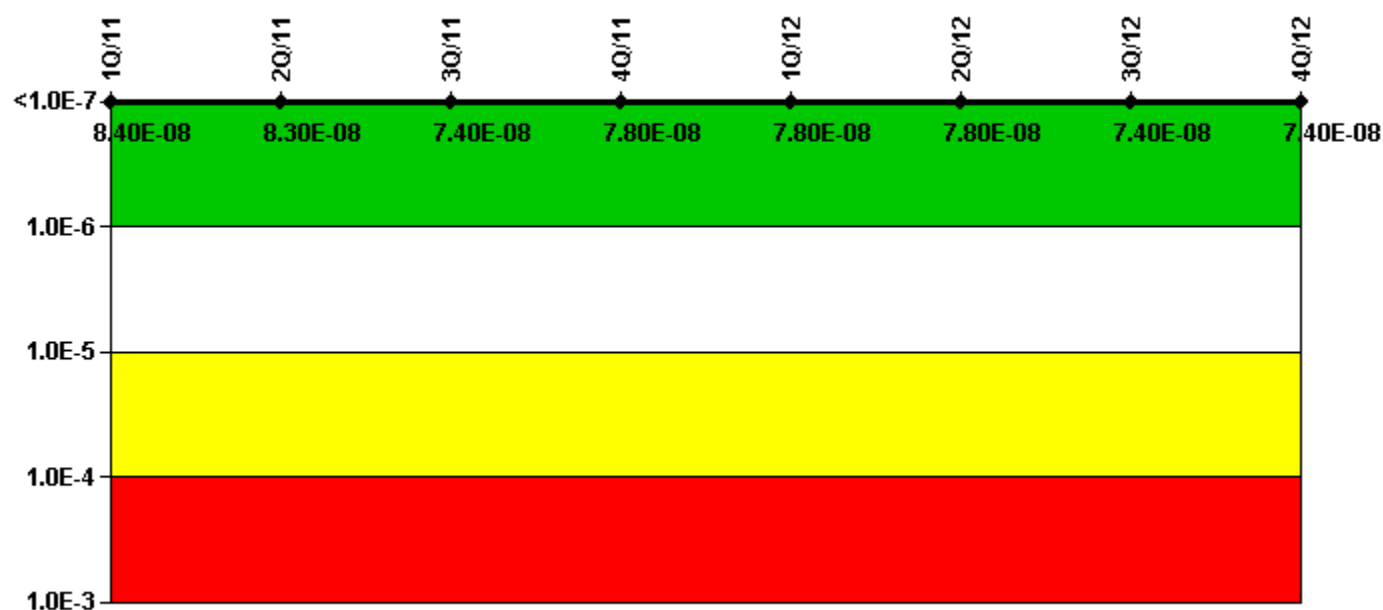
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	-8.32E-10	-8.38E-10	-8.38E-10	-9.26E-10	-7.52E-10	-7.51E-10	-7.51E-10	-7.35E-10
URI (Δ CDF)	-1.50E-08	-1.52E-08	-1.52E-08	-1.52E-08	-1.52E-08	-1.53E-08	-1.53E-08	-1.52E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



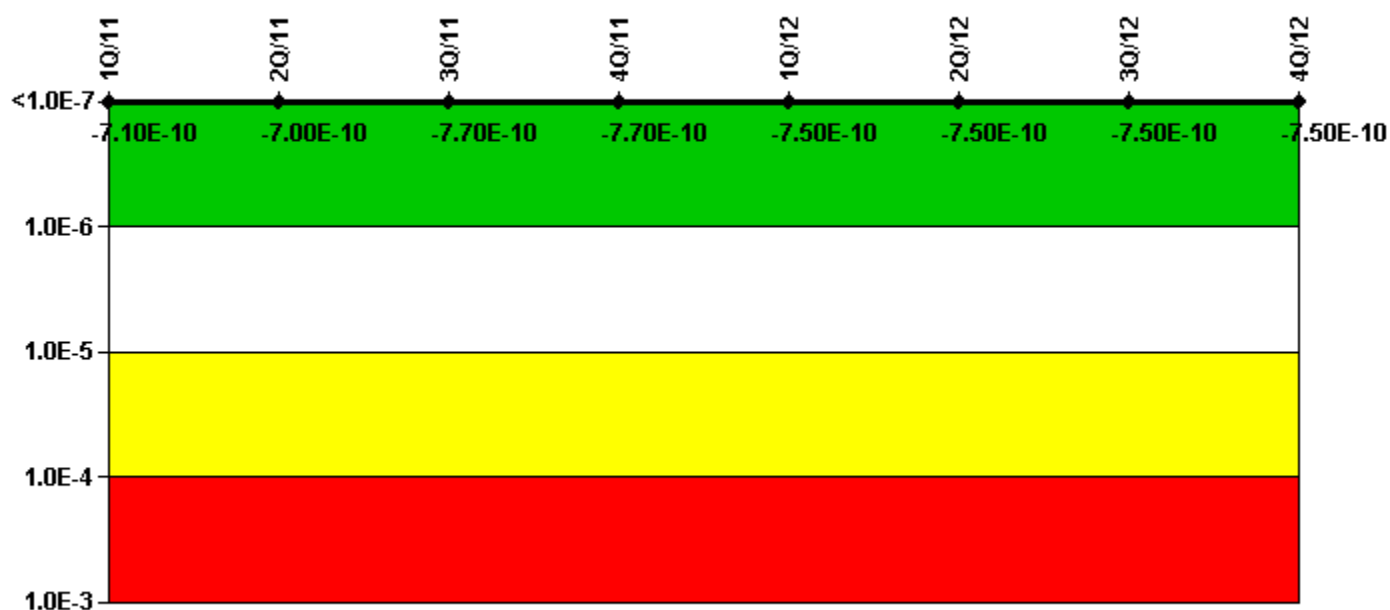
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	1.44E-08	1.51E-08	6.57E-09	1.04E-08	7.92E-09	8.75E-09	4.80E-09	4.52E-09
URI (Δ CDF)	6.97E-08	6.79E-08	6.79E-08	6.79E-08	6.96E-08	6.96E-08	6.96E-08	6.96E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.40E-08	8.30E-08	7.40E-08	7.80E-08	7.80E-08	7.80E-08	7.40E-08	7.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



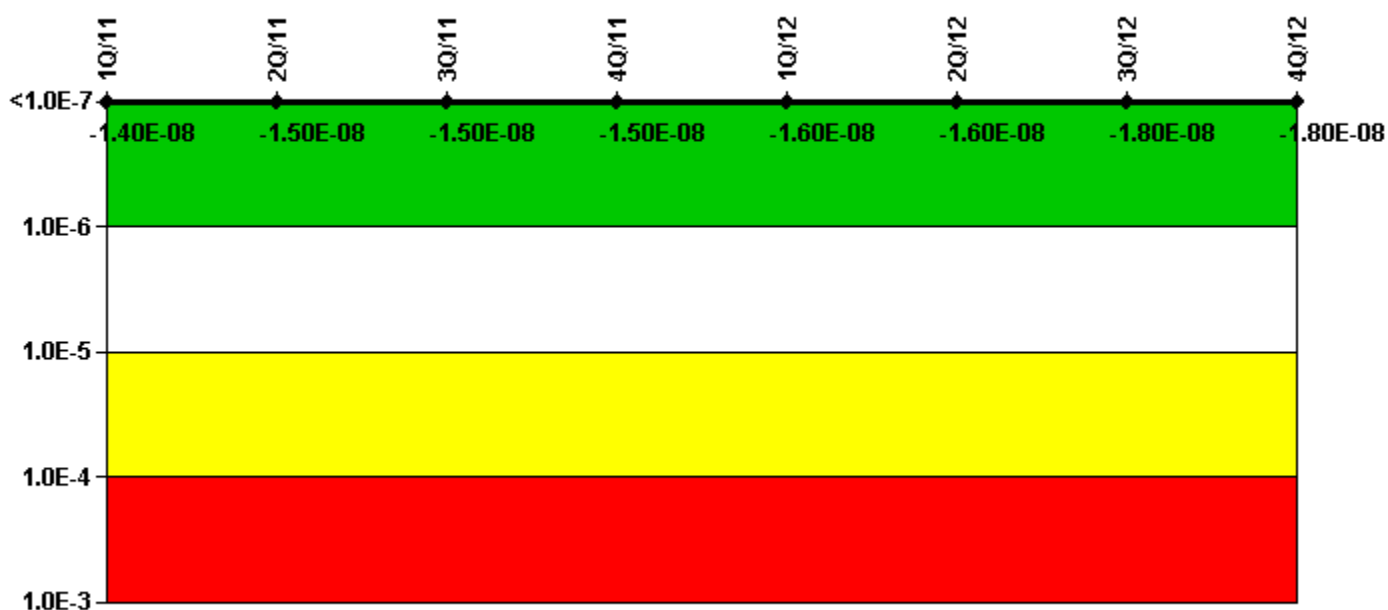
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	2.25E-10	2.34E-10	1.68E-10	1.66E-10	1.81E-10	1.85E-10	1.85E-10	1.85E-10
URI (Δ CDF)	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.31E-10	-9.31E-10	-9.31E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.10E-10	-7.00E-10	-7.70E-10	-7.70E-10	-7.50E-10	-7.50E-10	-7.50E-10	-7.50E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



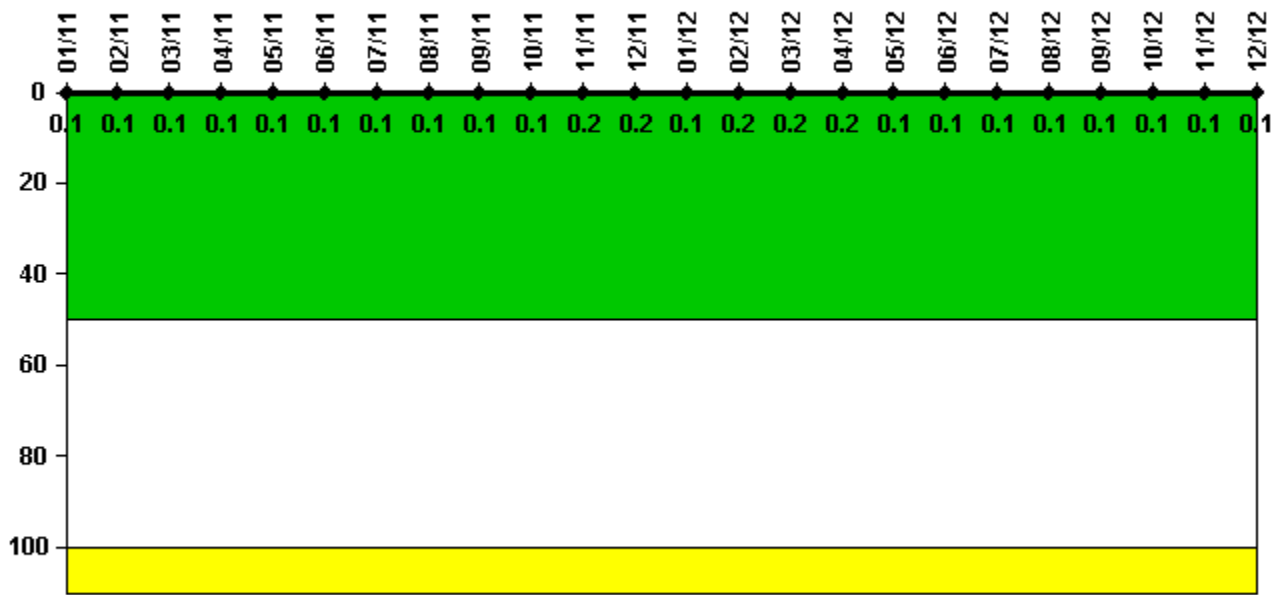
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	5.56E-09	5.83E-09	5.39E-09	5.15E-09	4.47E-09	4.03E-09	2.40E-09	2.16E-09
URI (Δ CDF)	-1.97E-08	-2.04E-08	-2.04E-08	-2.04E-08	-2.05E-08	-2.02E-08	-2.01E-08	-2.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.60E-08	-1.60E-08	-1.80E-08	-1.80E-08

Licensee Comments: none

Reactor Coolant System Activity



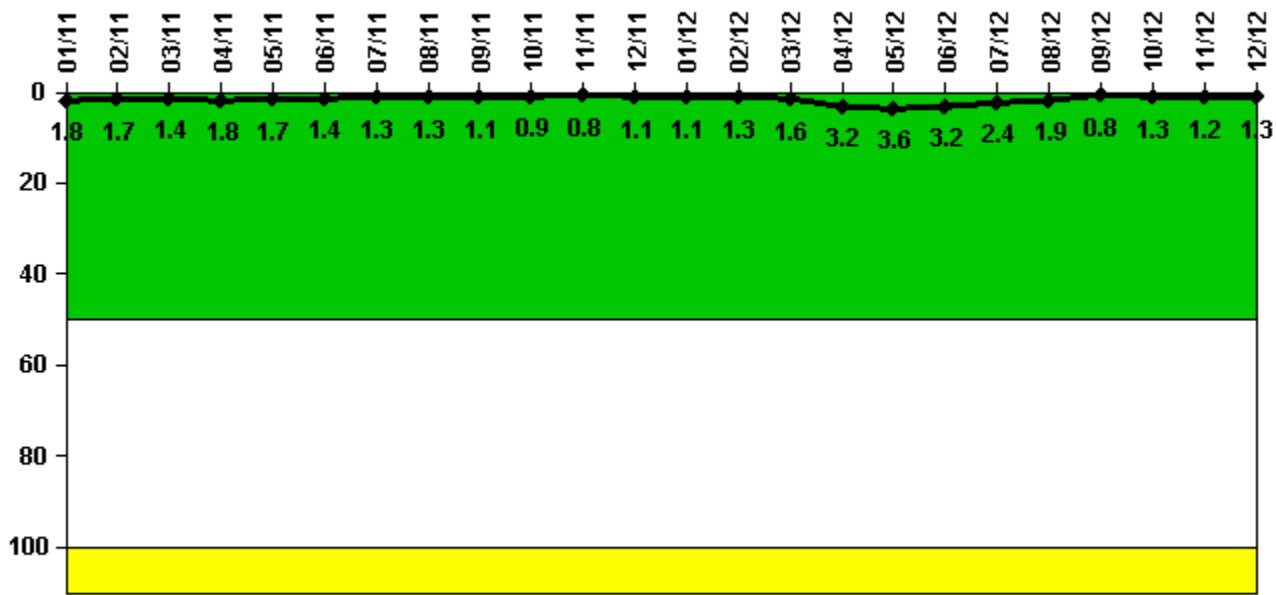
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum activity	0.001130	0.000738	0.000849	0.000756	0.000998	0.000949	0.000985	0.000998	0.001030	0.001110	0.001550	0.001760
Technical specification limit	1.0	1.0	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	0.2	0.2
Reactor Coolant System Activity	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum activity	0.001200	0.002160	0.001610	0.001840	0.001210	0.000598	0.000737	0.000712	0.000984	0.000867	0.000887	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	0.2	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

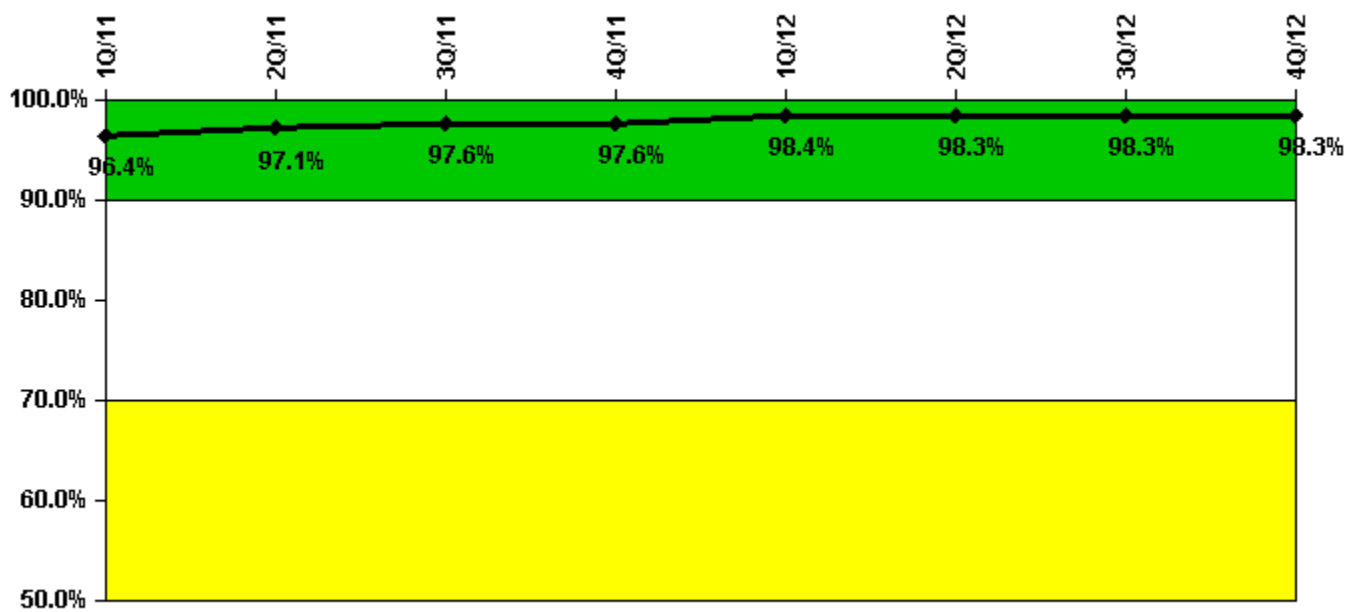


Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum leakage	0.180	0.170	0.140	0.180	0.170	0.140	0.130	0.130	0.110	0.090	0.080	0.110
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.8	1.7	1.4	1.8	1.7	1.4	1.3	1.3	1.1	0.9	0.8	1.1
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	0.110	0.130	0.160	0.320	0.360	0.320	0.240	0.190	0.080	0.130	0.120	0.130
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.1	1.3	1.6	3.2	3.6	3.2	2.4	1.9	0.8	1.3	1.2	1.3

Licensee Comments: none

Drill/Exercise Performance

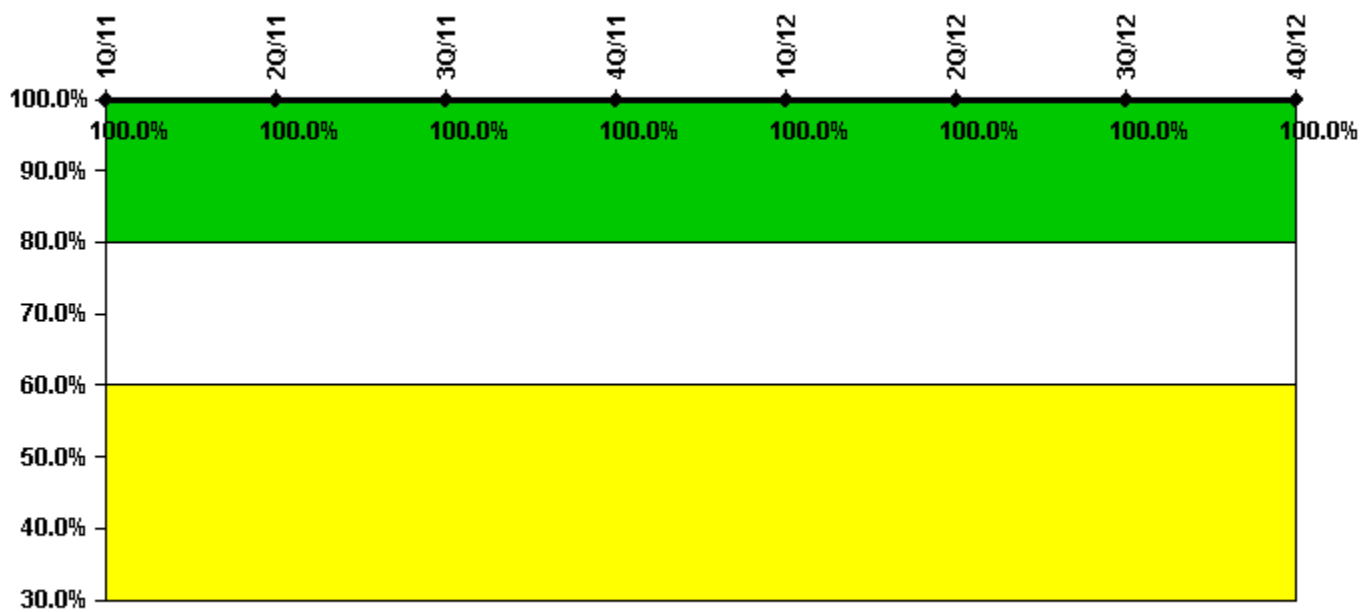
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful opportunities	31.0	27.0	31.0	27.0	38.0	24.0	32.0	24.0
Total opportunities	32.0	28.0	31.0	27.0	38.0	26.0	32.0	24.0
Indicator value	96.4%	97.1%	97.6%	97.6%	98.4%	98.3%	98.3%	98.3%

Licensee Comments:

3Q/11: An NRC assessment determined a missed classification occurred in June 2011. Historical data was corrected with no change in color.

ERO Drill Participation

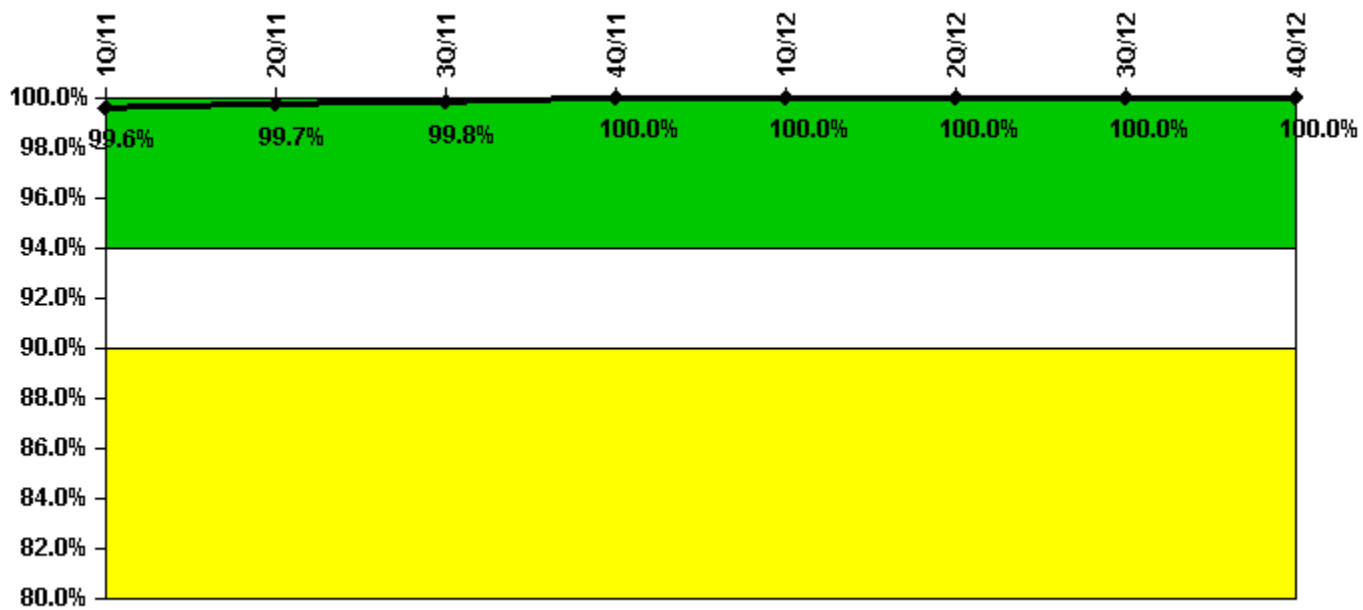
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Participating Key personnel	132.0	139.0	138.0	141.0	153.0	150.0	151.0	155.0
Total Key personnel	132.0	139.0	138.0	141.0	153.0	150.0	151.0	155.0
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%

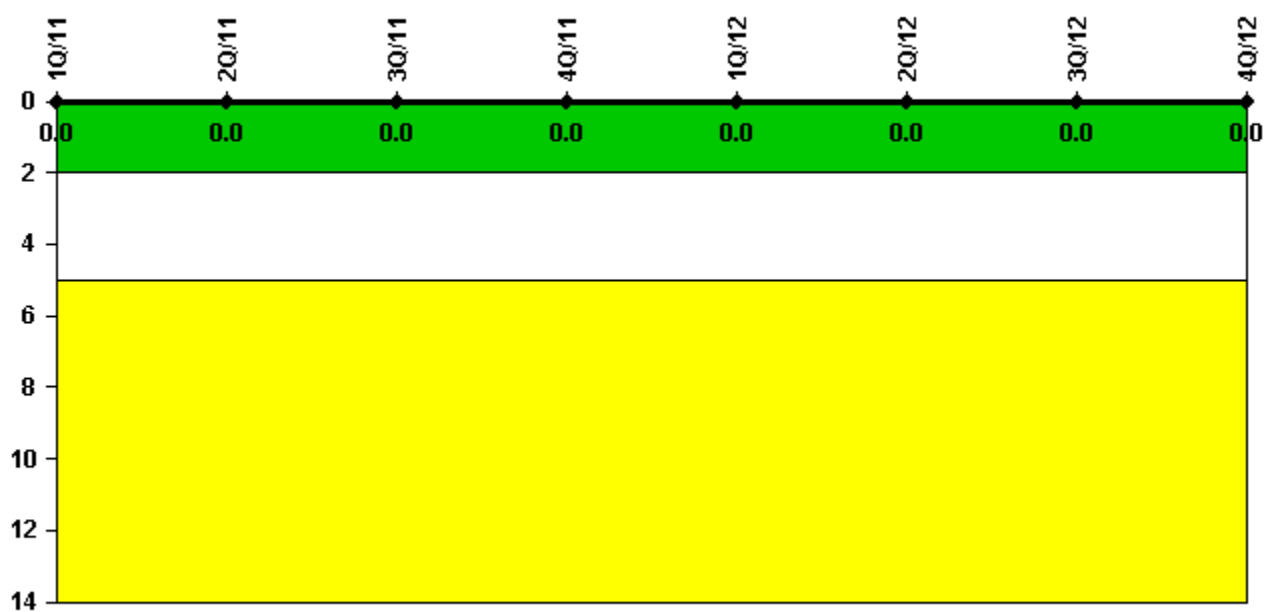
Notes

Alert & Notification System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful siren-tests	476	544	476	544	476	544	476	559
Total sirens-tests	476	544	476	544	476	544	476	559
Indicator value	99.6%	99.7%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/11: A self-assessment identified a siren activation test was not counted in March 2011. Historical data was corrected with no change in color.

Occupational Exposure Control Effectiveness

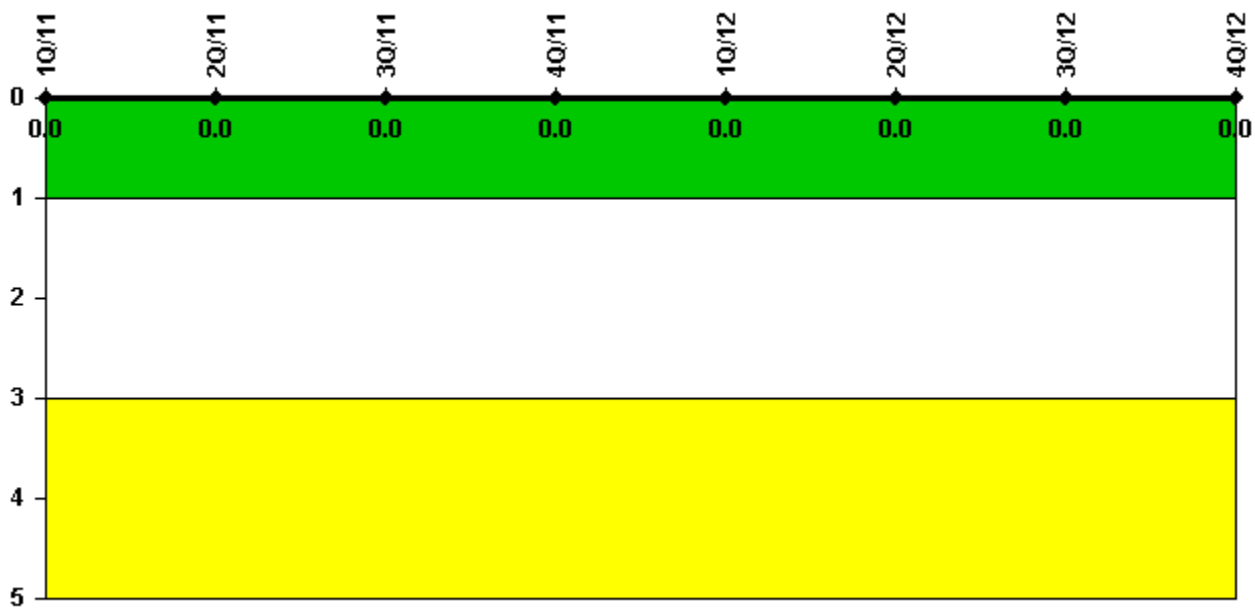


Thresholds: White > 2.0 Yellow > 5.0

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

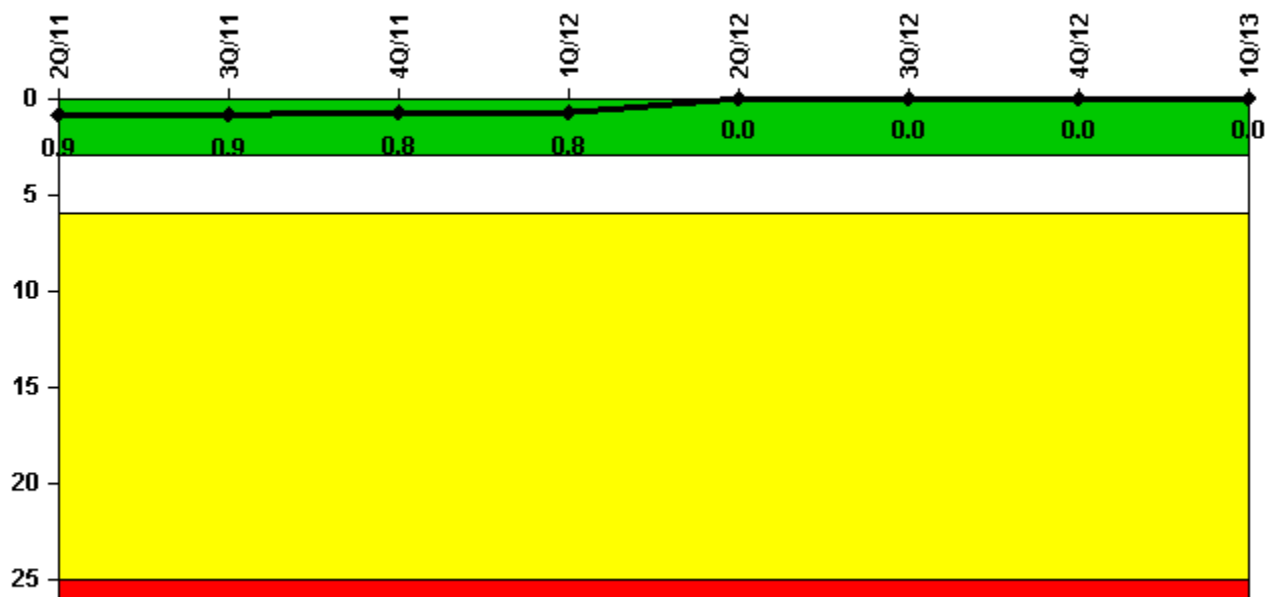
Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information 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.

Surry 1

1Q/2013 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



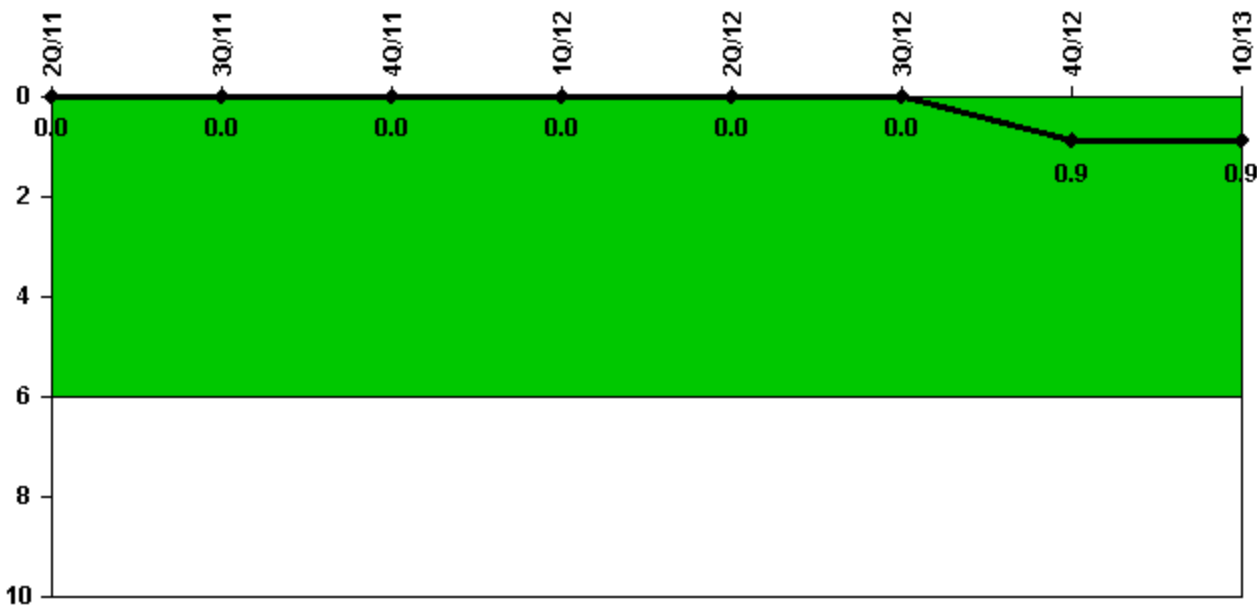
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2027.6	2208.0	2209.0	2183.0	1456.7	2208.0	2209.0	2159.0
Indicator value	0.9	0.9	0.8	0.8	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



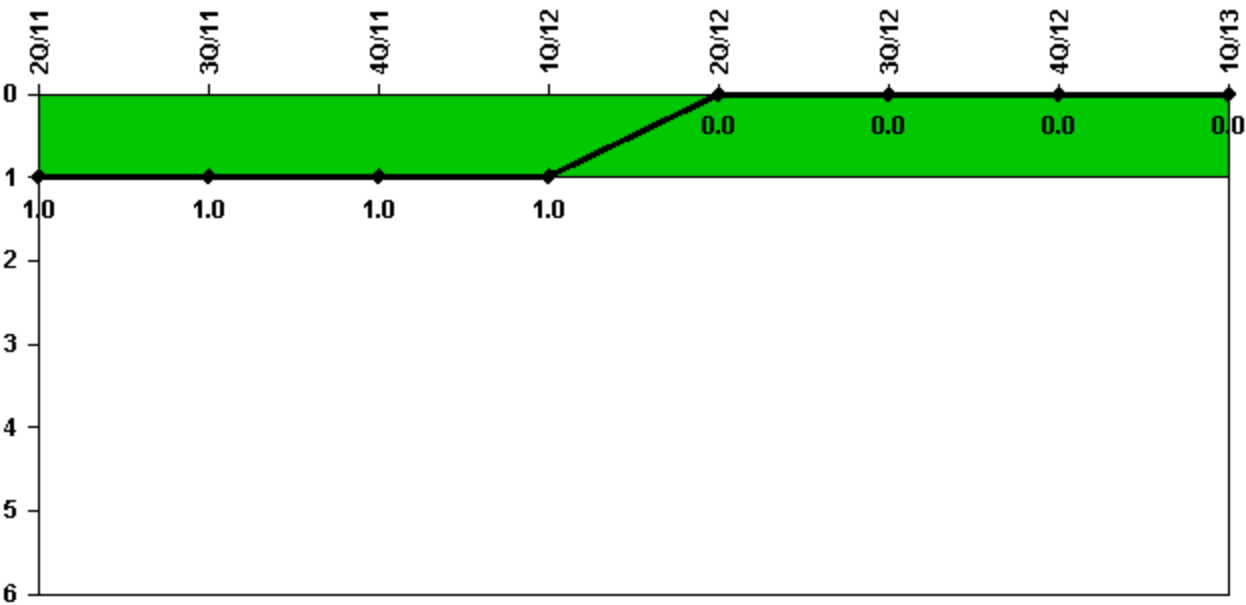
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2027.6	2208.0	2209.0	2183.0	1456.7	2208.0	2209.0	2159.0
Indicator value	0	0	0	0	0	0	0.9	0.9

Licensee Comments: none

Unplanned Scrams with Complications



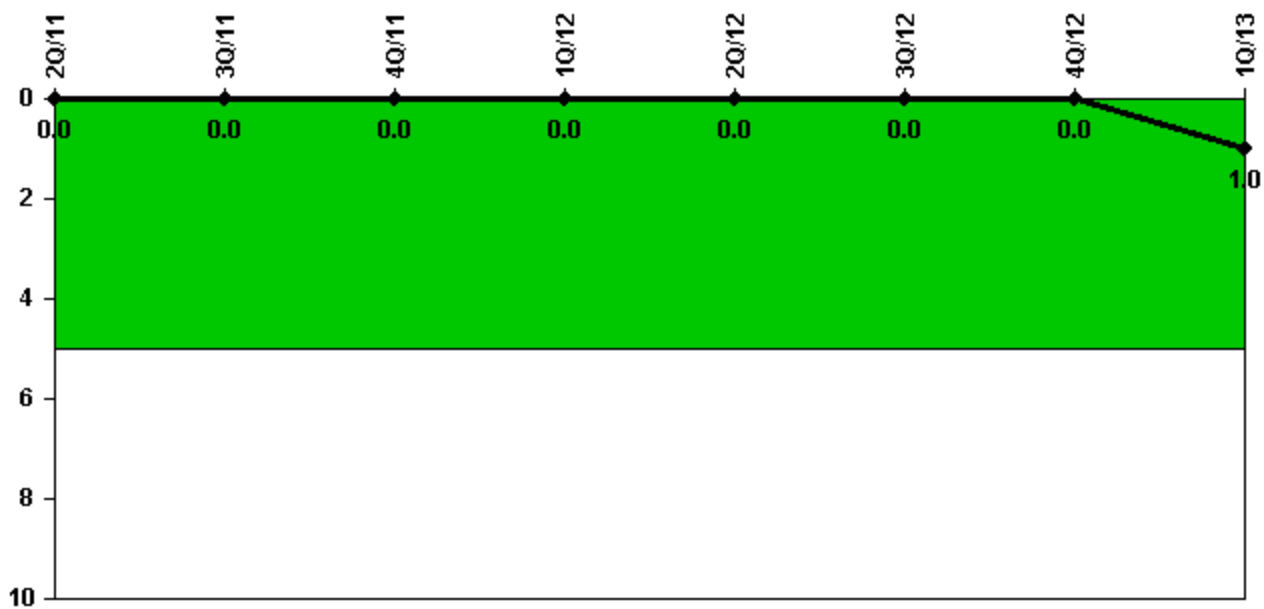
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Scrams with complications	1.0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

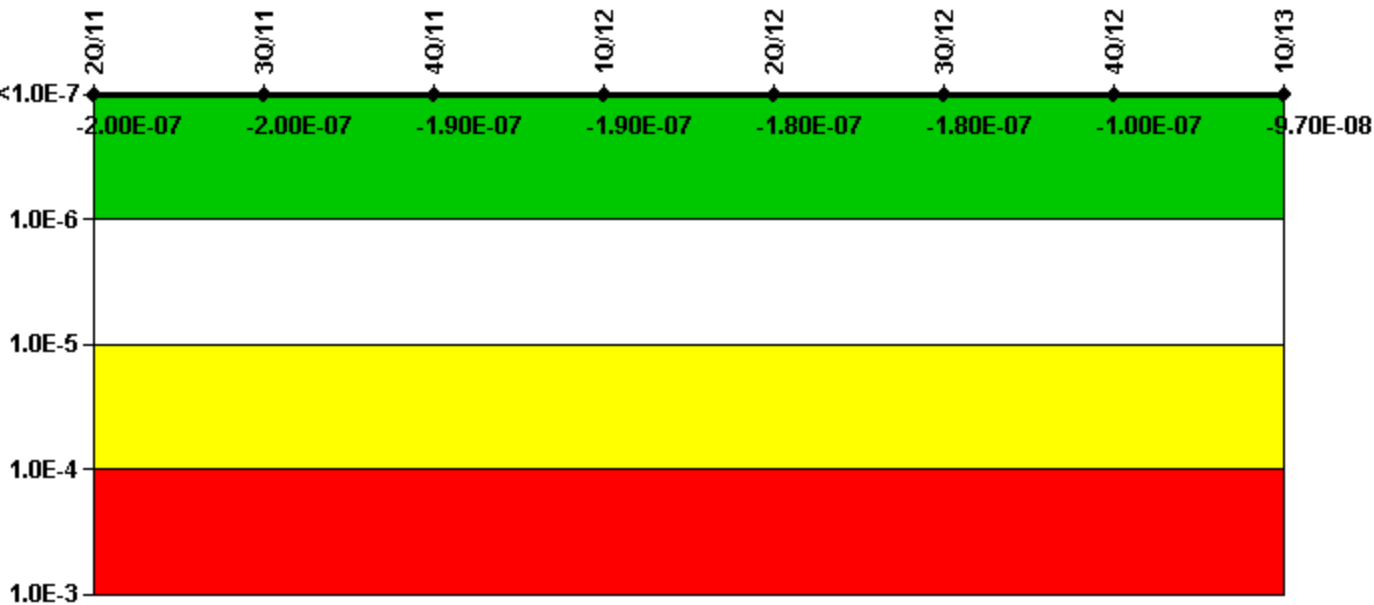
Notes

Safety System Functional Failures (PWR)	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Safety System Functional Failures	0	0	0	0	0	0	0	1
Indicator value	0	0	0	0	0	0	0	1

Licensee Comments:

1Q/13: See Surry LER S1-2013-001-00 dated January 30, 2013.

Mitigating Systems Performance Index, Emergency AC Power System

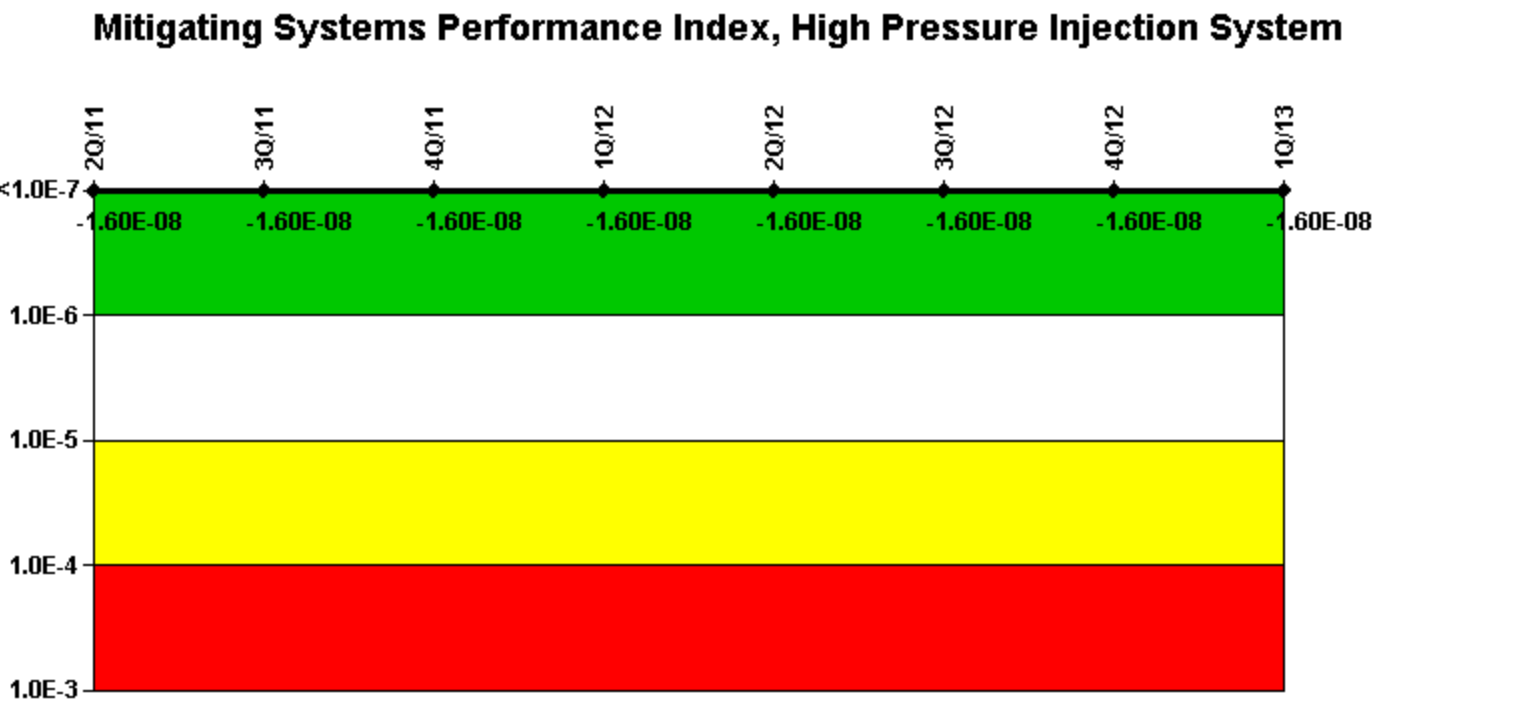


Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (ΔCDF)	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.39E-08	-1.39E-08
URI (ΔCDF)	-1.80E-07	-1.80E-07	-1.77E-07	-1.74E-07	-1.68E-07	-1.66E-07	-8.66E-08	-8.29E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-07	-2.00E-07	-1.90E-07	-1.90E-07	-1.80E-07	-1.80E-07	-1.00E-07	-9.70E-08

Licensee Comments: none



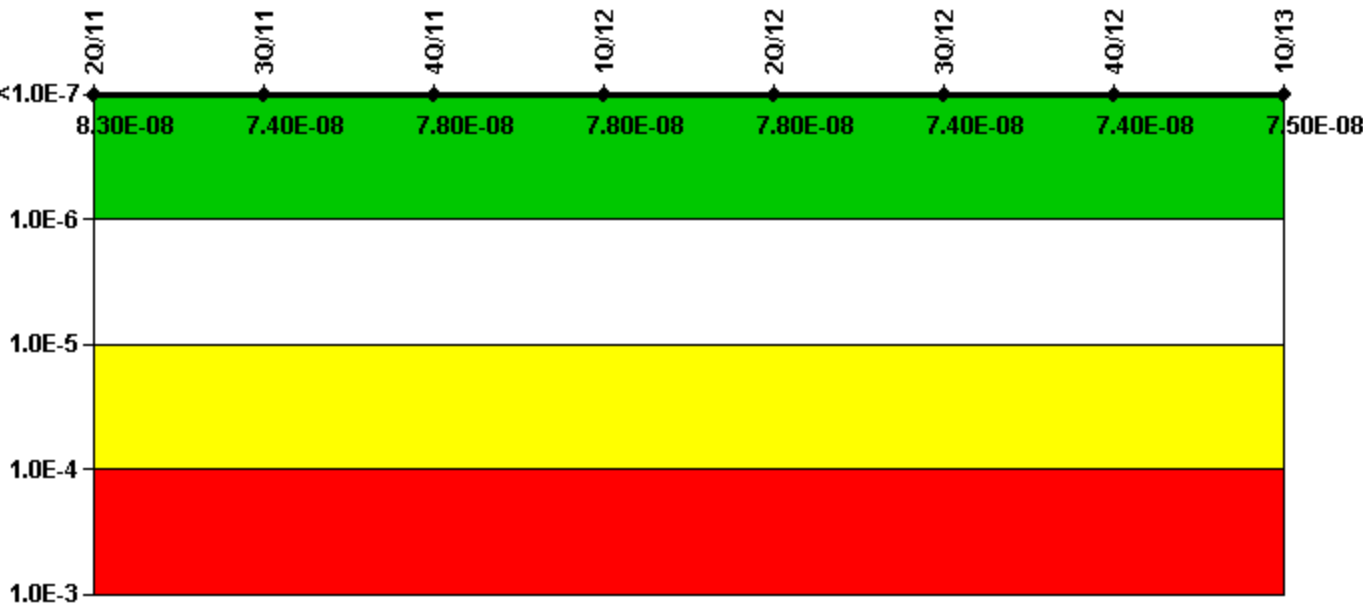
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-8.38E-10	-8.38E-10	-9.26E-10	-7.52E-10	-7.51E-10	-7.51E-10	-7.35E-10	-7.21E-10
URI (ΔCDF)	-1.52E-08	-1.52E-08	-1.52E-08	-1.52E-08	-1.53E-08	-1.53E-08	-1.52E-08	-1.51E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



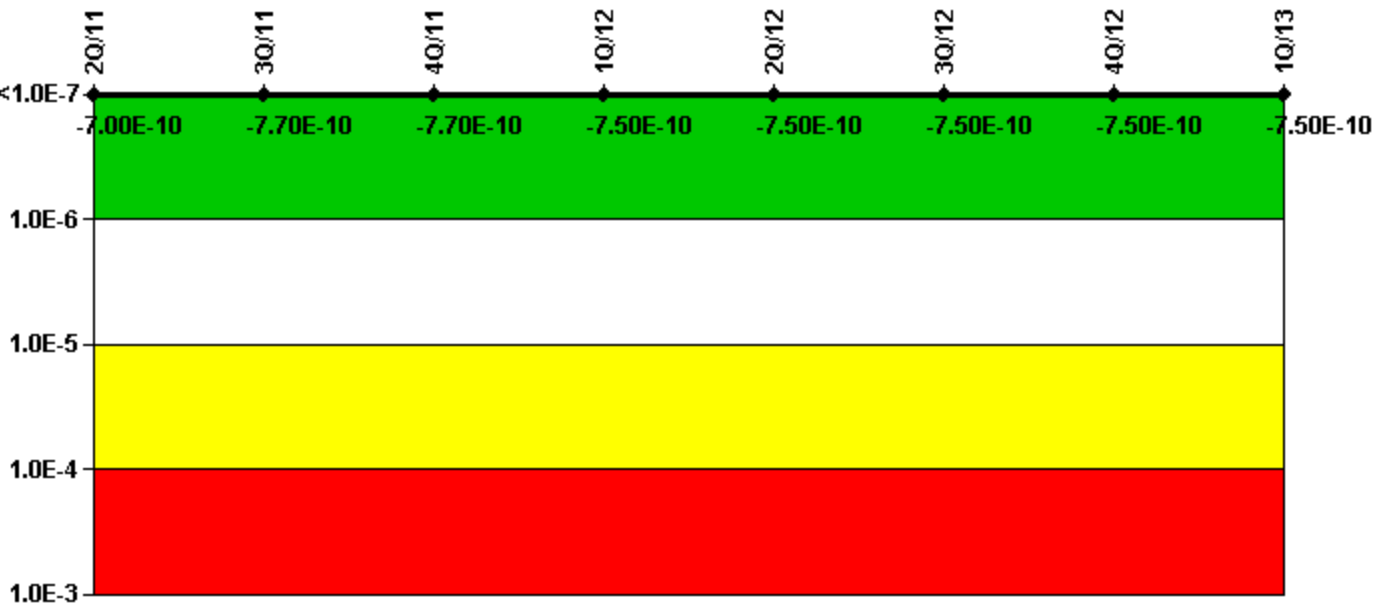
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (ΔCDF)	1.51E-08	6.57E-09	1.04E-08	7.92E-09	8.75E-09	4.80E-09	4.52E-09	4.93E-09
URI (ΔCDF)	6.79E-08	6.79E-08	6.79E-08	6.96E-08	6.96E-08	6.96E-08	6.96E-08	6.96E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.30E-08	7.40E-08	7.80E-08	7.80E-08	7.80E-08	7.40E-08	7.40E-08	7.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



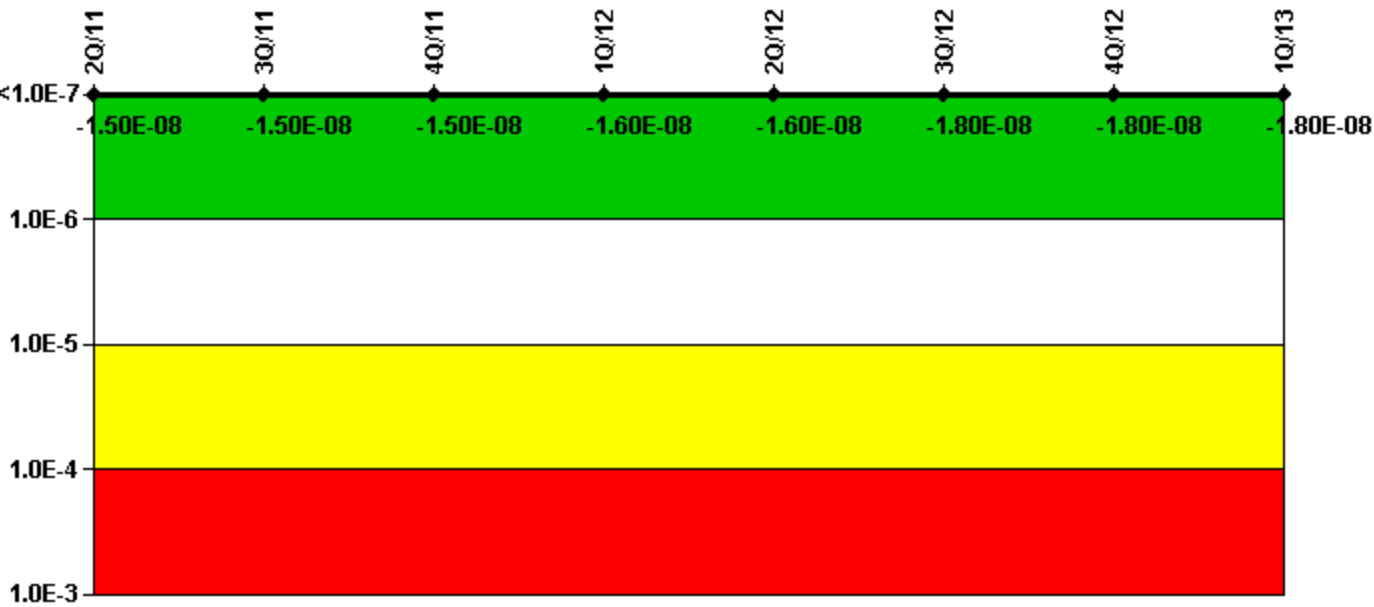
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (ΔCDF)	2.34E-10	1.68E-10	1.66E-10	1.81E-10	1.85E-10	1.85E-10	1.85E-10	1.85E-10
URI (ΔCDF)	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.31E-10	-9.31E-10	-9.31E-10	-9.31E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.00E-10	-7.70E-10	-7.70E-10	-7.50E-10	-7.50E-10	-7.50E-10	-7.50E-10	-7.50E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



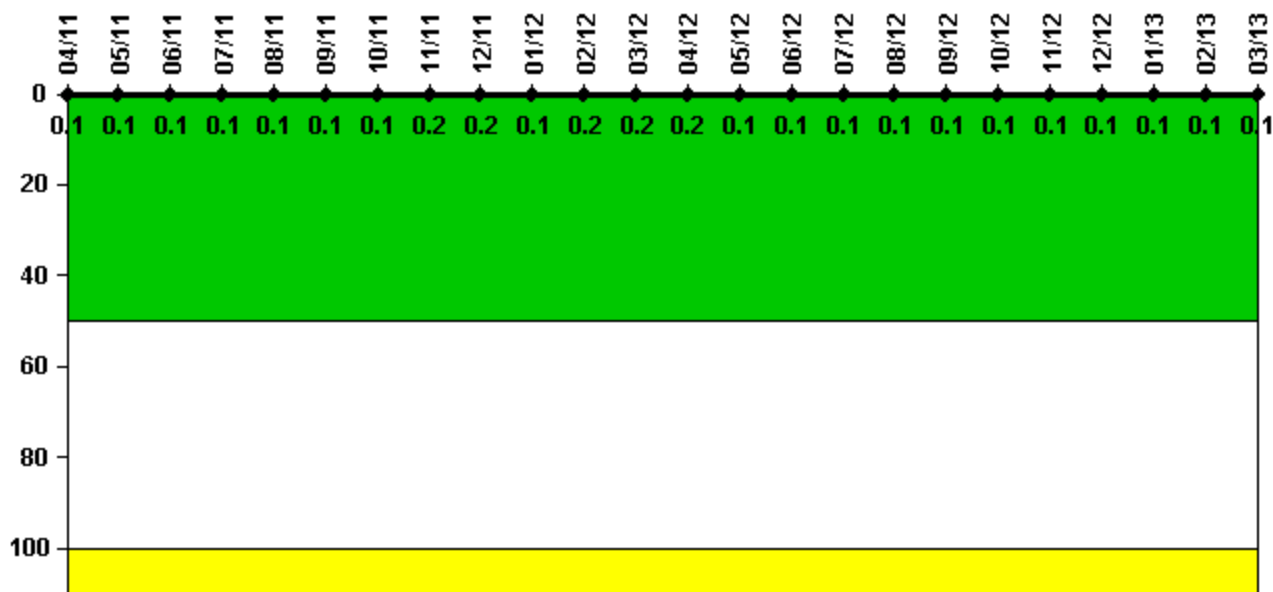
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (ΔCDF)	5.83E-09	5.39E-09	5.15E-09	4.47E-09	4.03E-09	2.40E-09	2.16E-09	2.31E-09
URI (ΔCDF)	-2.04E-08	-2.04E-08	-2.04E-08	-2.05E-08	-2.02E-08	-2.01E-08	-2.00E-08	-2.01E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.50E-08	-1.50E-08	-1.60E-08	-1.60E-08	-1.80E-08	-1.80E-08	-1.80E-08

Licensee Comments: none

Reactor Coolant System Activity



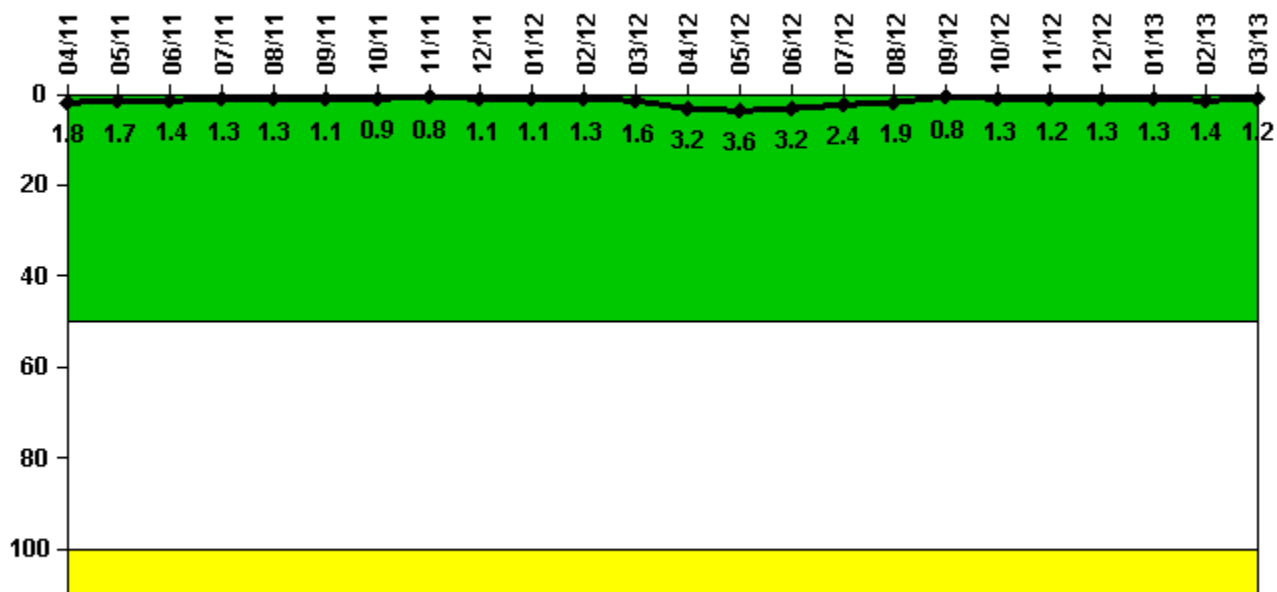
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum activity	0.000756	0.000998	0.000949	0.000985	0.000998	0.001030	0.001110	0.001550	0.001760	0.001200	0.002160	0.001610
Technical specification limit	1.0	1.0	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	0.2	0.2	0.1	0.2	0.2
Reactor Coolant System Activity	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum activity	0.001840	0.001210	0.000598	0.000737	0.000712	0.000984	0.000867	0.000887	0.001030	0.000979	0.001220	0.001160
Technical specification limit	1.0	1.0	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



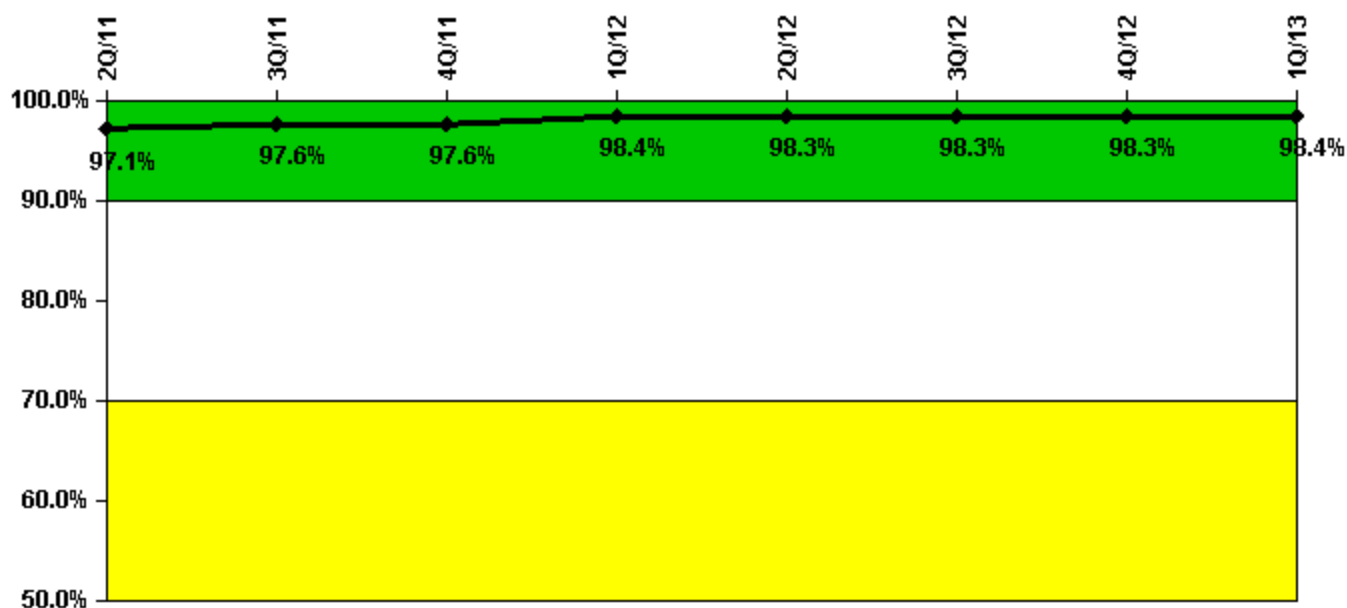
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum leakage	0.180	0.170	0.140	0.130	0.130	0.110	0.090	0.080	0.110	0.110	0.130	0.160
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.8	1.7	1.4	1.3	1.3	1.1	0.9	0.8	1.1	1.1	1.3	1.6
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	0.320	0.360	0.320	0.240	0.190	0.080	0.130	0.120	0.130	0.130	0.140	0.120
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.2	3.6	3.2	2.4	1.9	0.8	1.3	1.2	1.3	1.3	1.4	1.2

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

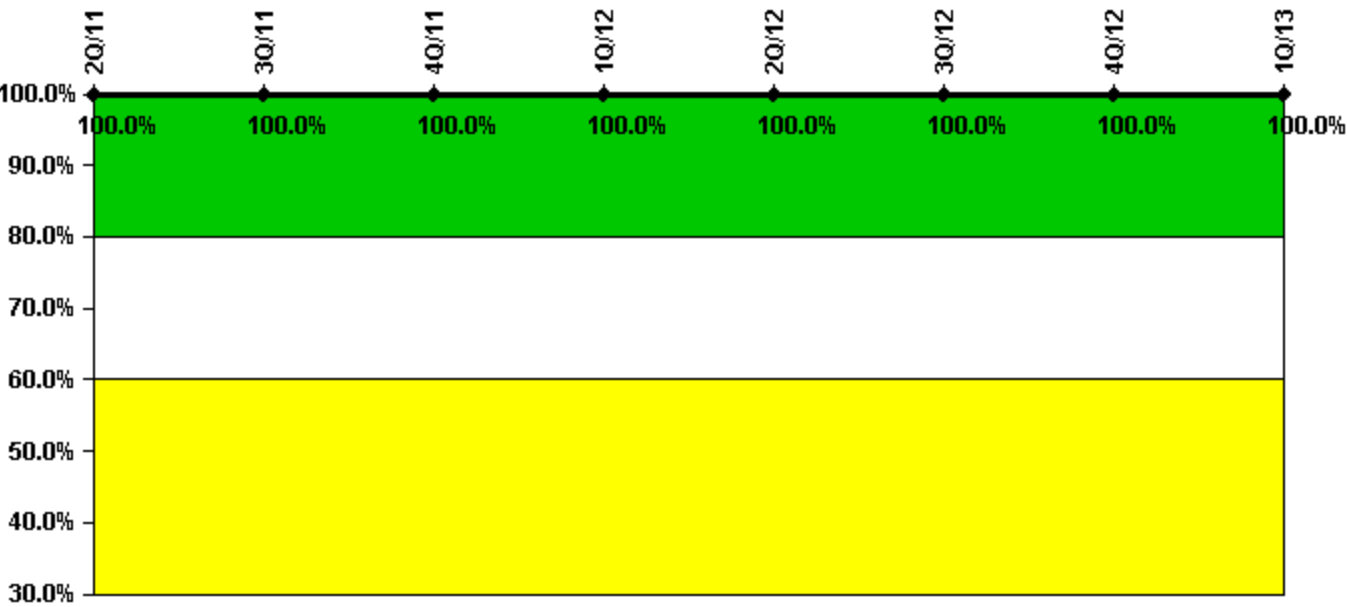
Notes

Drill/Exercise Performance	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful opportunities	27.0	31.0	27.0	38.0	24.0	32.0	24.0	48.0
Total opportunities	28.0	31.0	27.0	38.0	26.0	32.0	24.0	49.0
Indicator value	97.1%	97.6%	97.6%	98.4%	98.3%	98.3%	98.3%	98.4%

Licensee Comments:

3Q/11: An NRC assessment determined a missed classification occurred in June 2011. Historical data was corrected with no change in color.

ERO Drill Participation



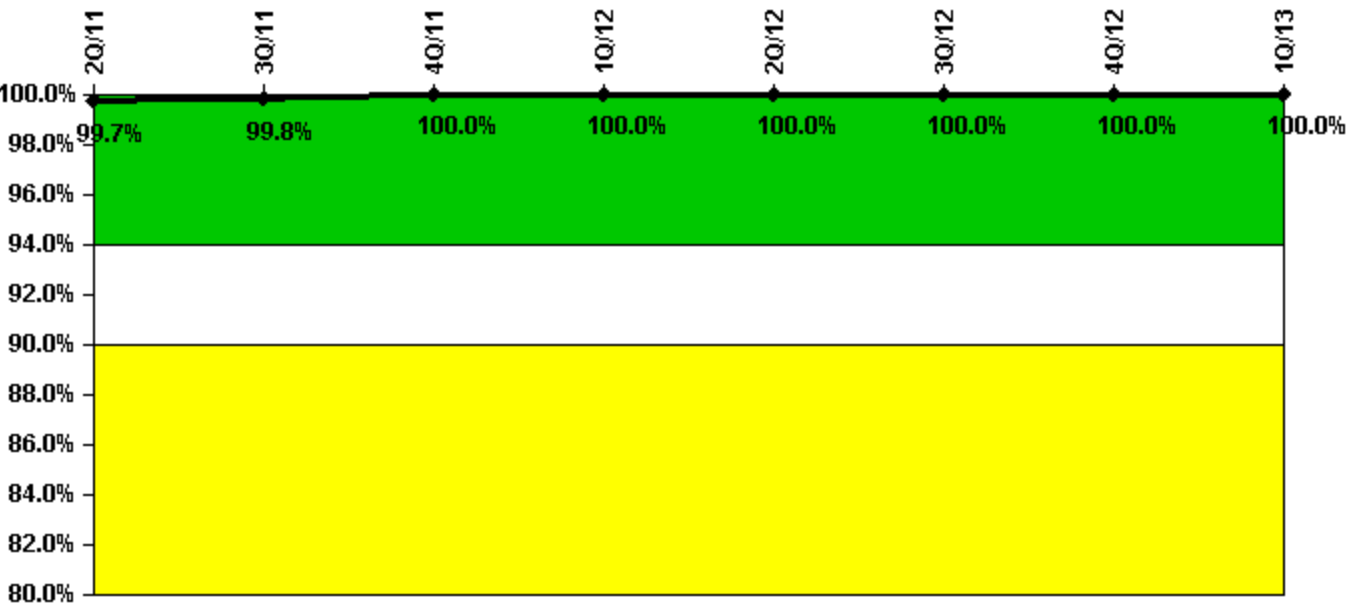
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Participating Key personnel	139.0	138.0	141.0	153.0	150.0	151.0	155.0	165.0
Total Key personnel	139.0	138.0	141.0	153.0	150.0	151.0	155.0	165.0
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%

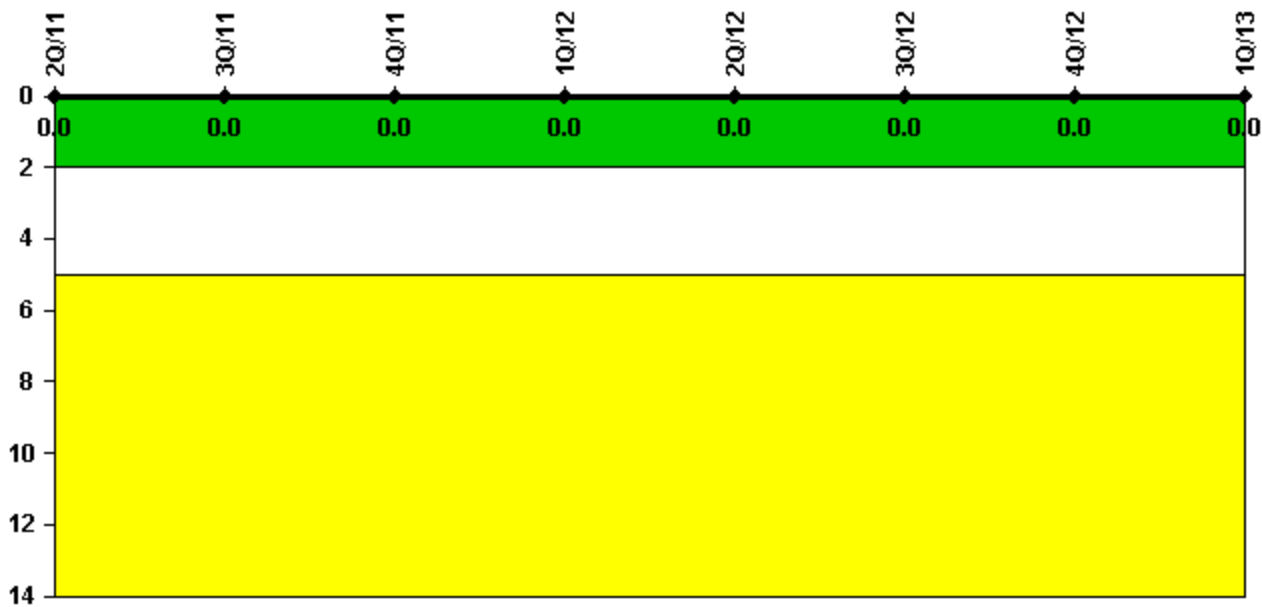
Notes

Alert & Notification System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful siren-tests	544	476	544	476	544	476	559	497
Total sirens-tests	544	476	544	476	544	476	559	497
Indicator value	99.7%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/11: A self-assessment identified a siren activation test was not counted in March 2011. Historical data was corrected with no change in color.

Occupational Exposure Control Effectiveness



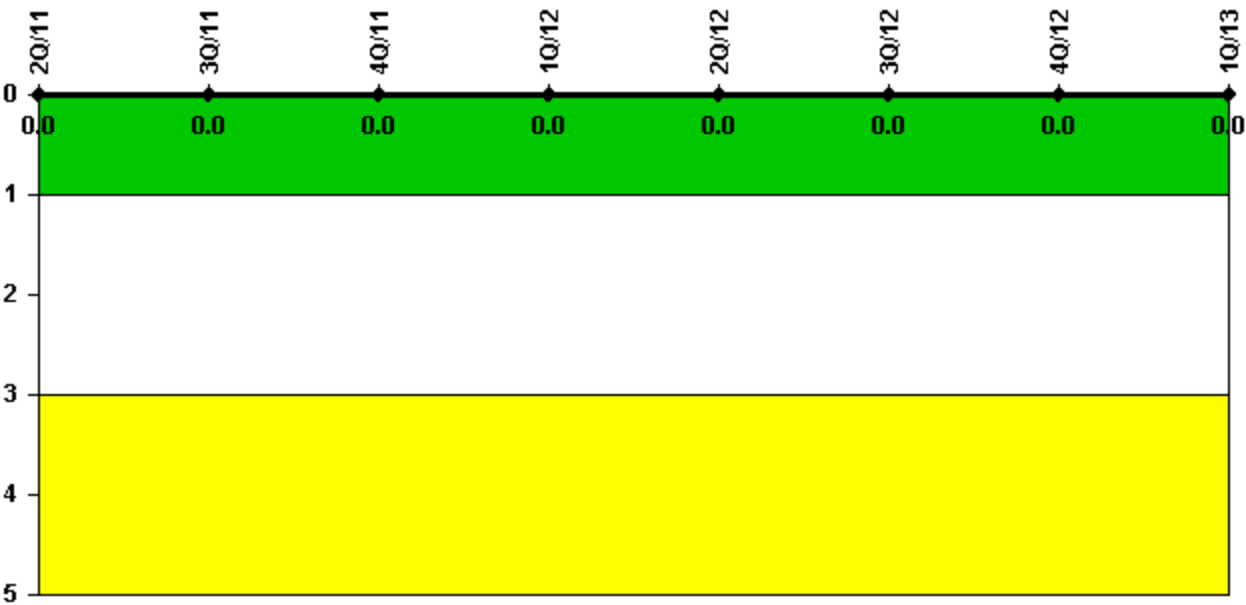
Thresholds: White > 2.0 Yellow > 5.0

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

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	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

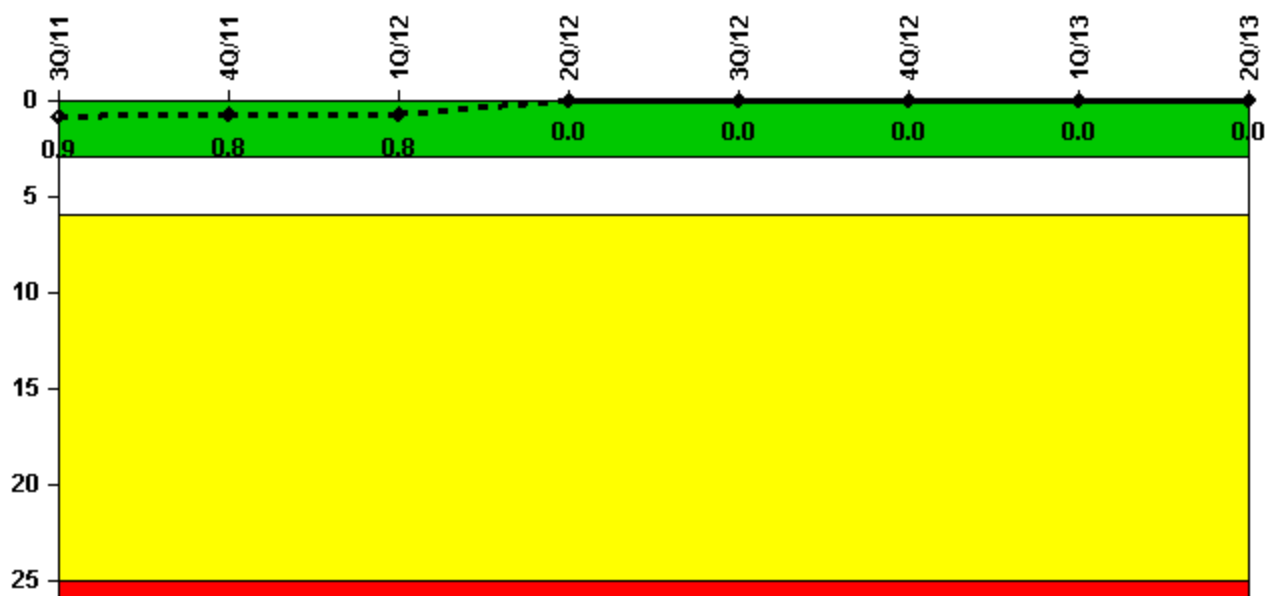
Surry 1

2Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



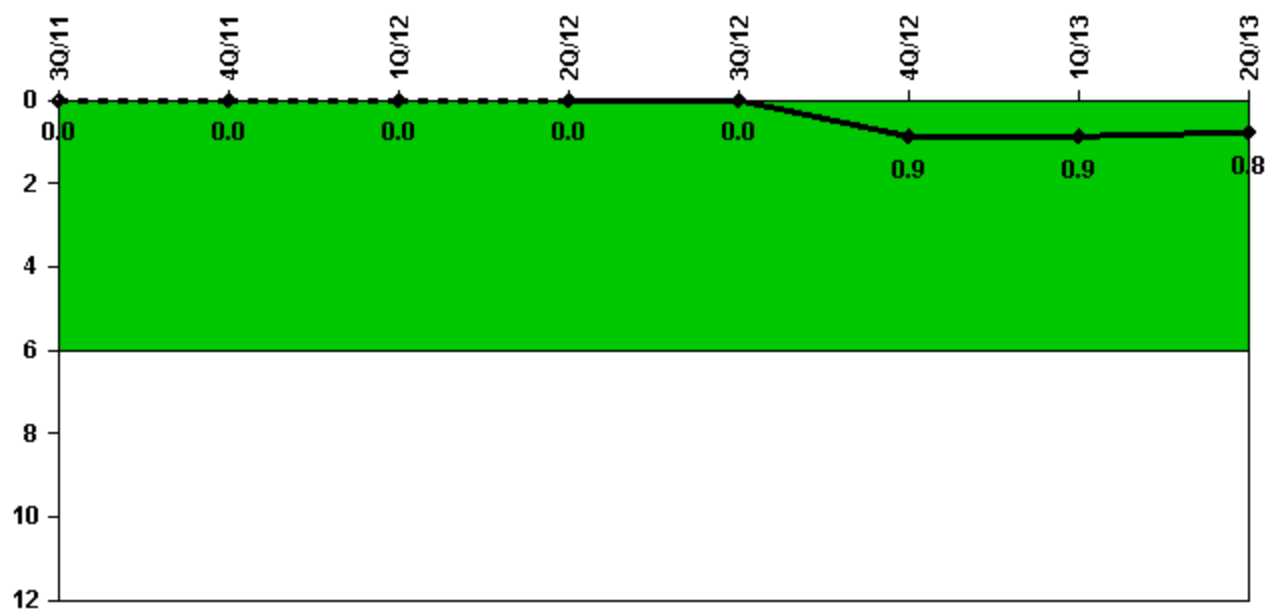
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2183.0	1456.7	2208.0	2209.0	2159.0	2184.0
Indicator value	0.9	0.8	0.8	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



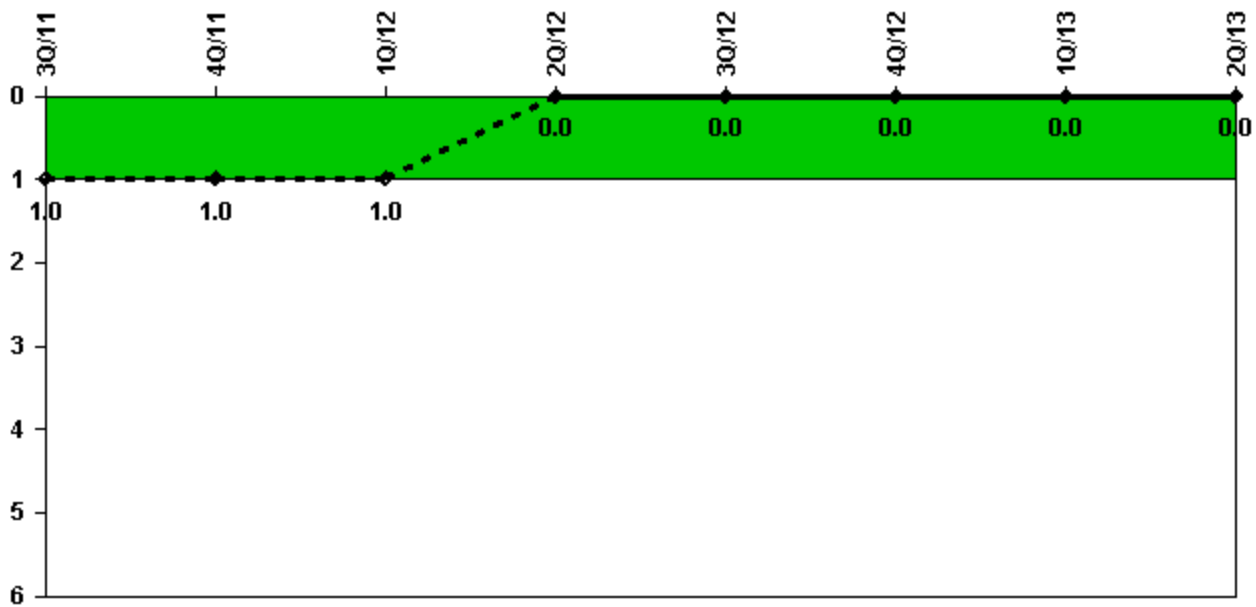
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	2183.0	1456.7	2208.0	2209.0	2159.0	2184.0
Indicator value	0	0	0	0	0	0.9	0.9	0.8

Licensee Comments: none

Unplanned Scrums with Complications



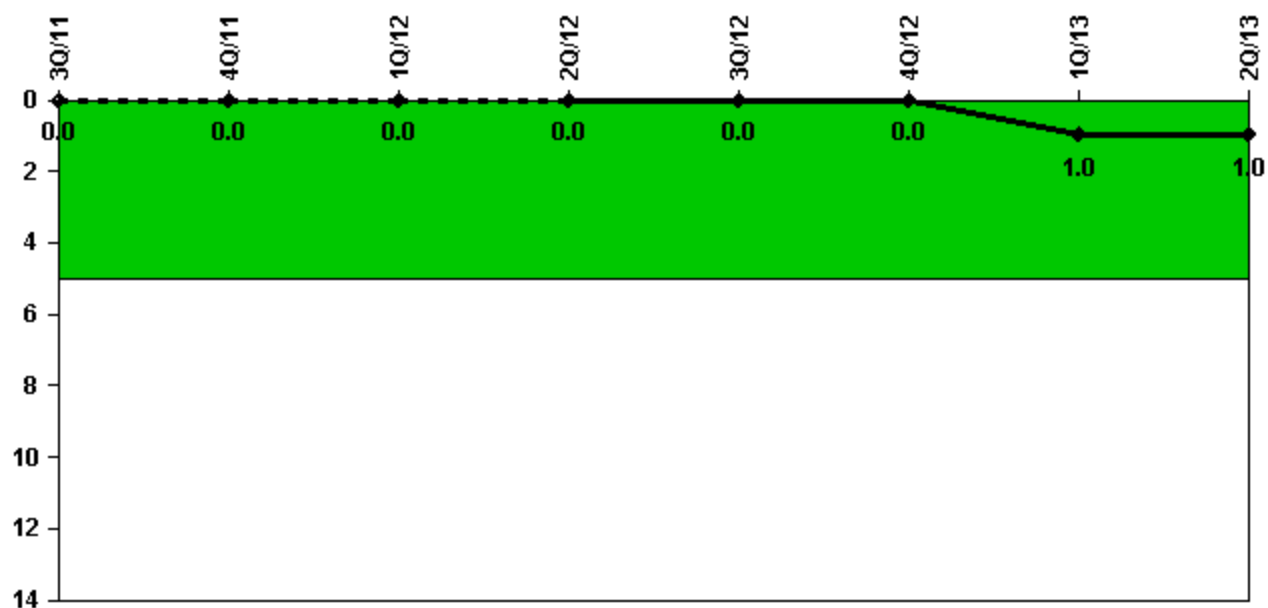
Thresholds: White > 1.0

Notes

Unplanned Scrums with Complications	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Scrums 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

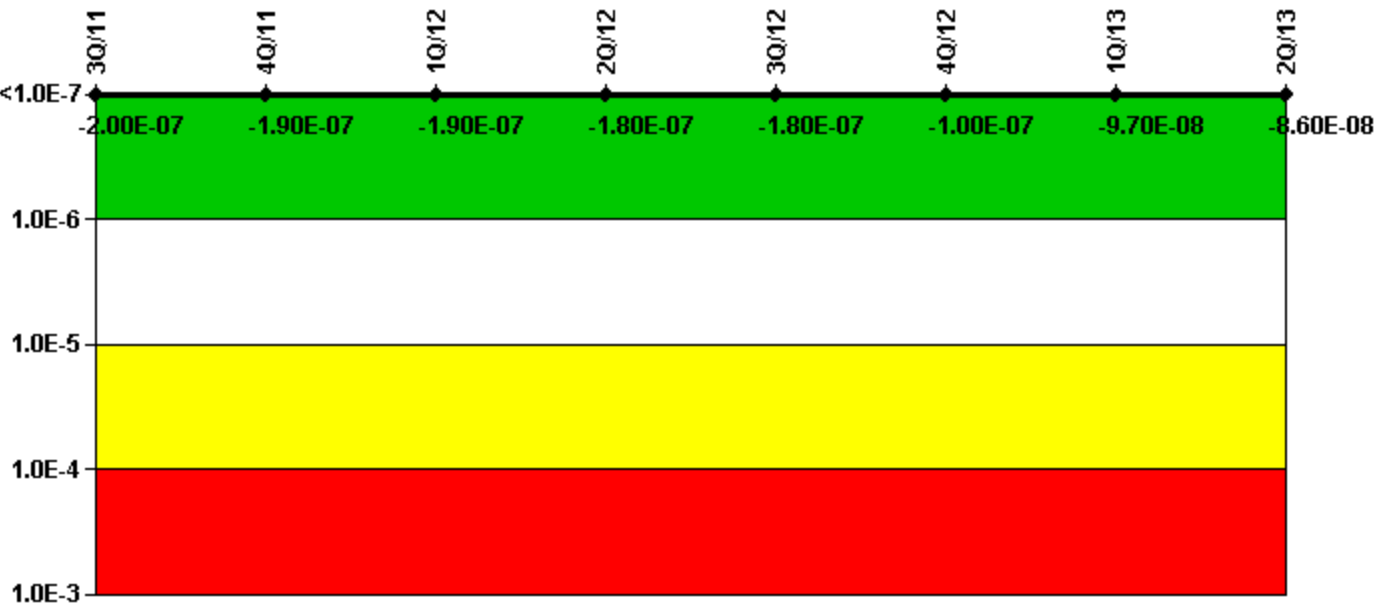
Notes

Safety System Functional Failures (PWR)	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Safety System Functional Failures	0	0	0	0	0	0	1	0
Indicator value	0	0	0	0	0	0	1	1

Licensee Comments:

1Q/13: See Surry LER S1-2013-001-00 dated January 30, 2013.

Mitigating Systems Performance Index, Emergency AC Power System



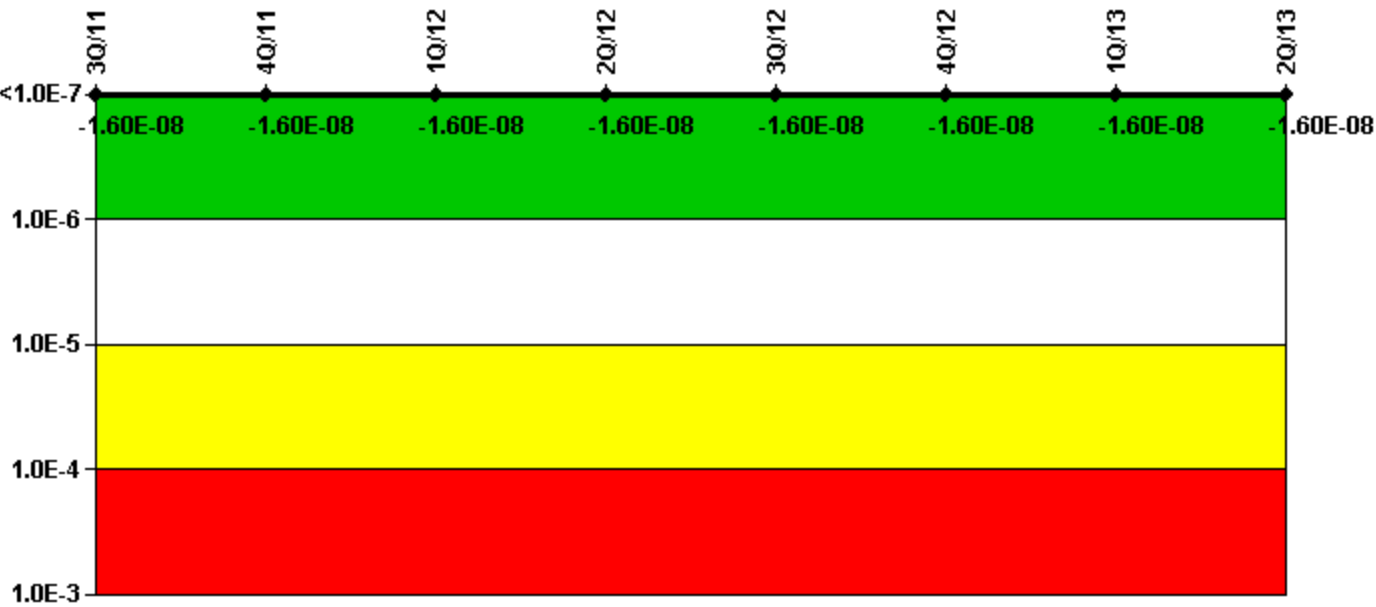
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (ΔCDF)	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.39E-08	-1.39E-08	-1.39E-08
URI (ΔCDF)	-1.80E-07	-1.77E-07	-1.74E-07	-1.68E-07	-1.66E-07	-8.66E-08	-8.29E-08	-7.22E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-07	-1.90E-07	-1.90E-07	-1.80E-07	-1.80E-07	-1.00E-07	-9.70E-08	-8.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



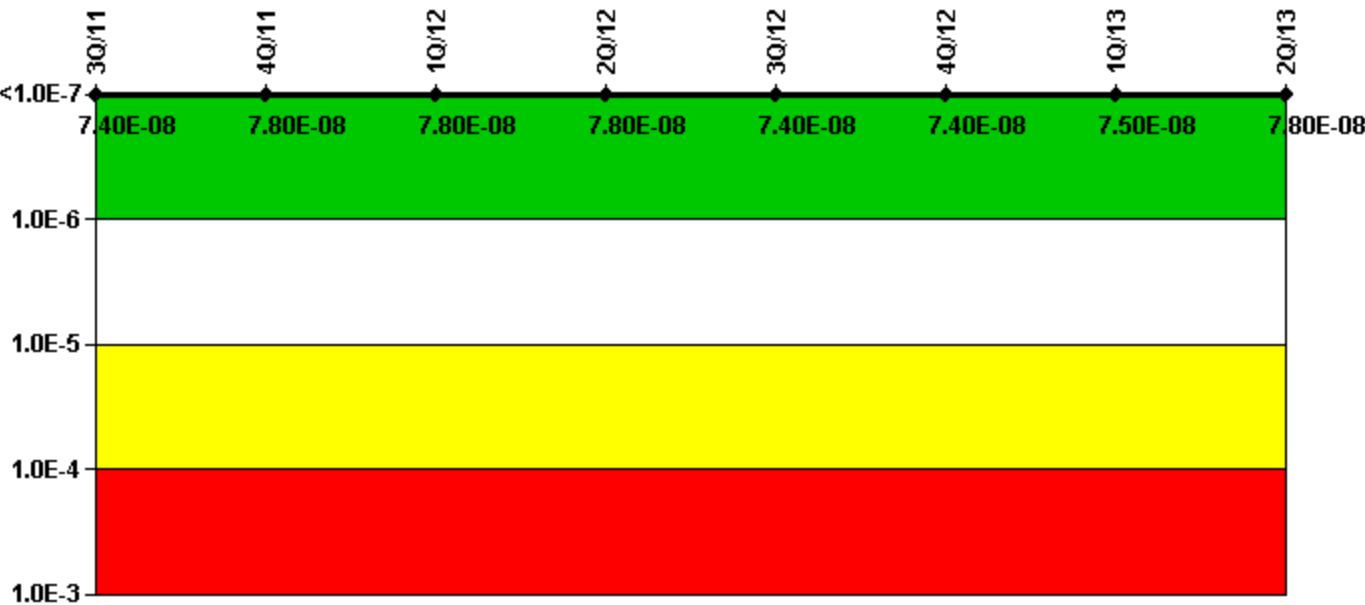
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (ΔCDF)	-8.38E-10	-9.26E-10	-7.52E-10	-7.51E-10	-7.51E-10	-7.35E-10	-7.21E-10	-7.22E-10
URI (ΔCDF)	-1.52E-08	-1.52E-08	-1.52E-08	-1.53E-08	-1.53E-08	-1.52E-08	-1.51E-08	-1.51E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



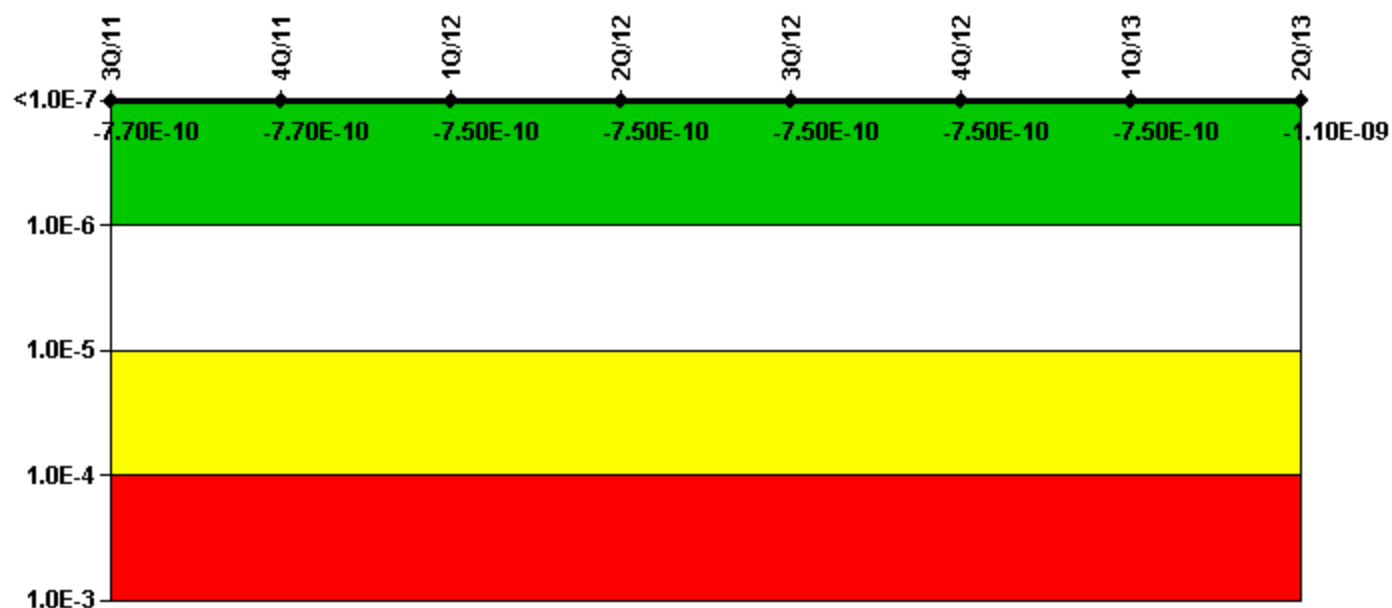
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (ΔCDF)	6.57E-09	1.04E-08	7.92E-09	8.75E-09	4.80E-09	4.52E-09	4.93E-09	4.35E-09
URI (ΔCDF)	6.79E-08	6.79E-08	6.96E-08	6.96E-08	6.96E-08	6.96E-08	6.96E-08	7.32E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.40E-08	7.80E-08	7.80E-08	7.80E-08	7.40E-08	7.40E-08	7.50E-08	7.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



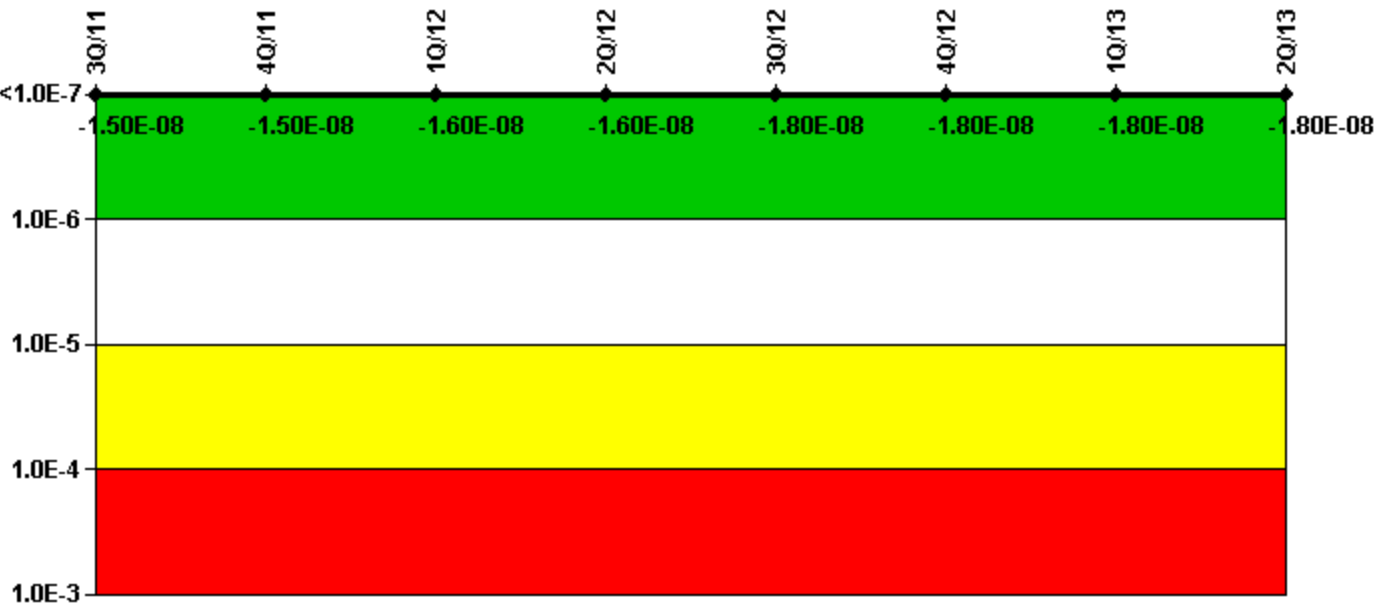
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	1.68E-10	1.66E-10	1.81E-10	1.85E-10	1.85E-10	1.85E-10	1.85E-10	-2.01E-10
URI (Δ CDF)	-9.35E-10	-9.35E-10	-9.35E-10	-9.31E-10	-9.31E-10	-9.31E-10	-9.31E-10	-9.02E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.70E-10	-7.70E-10	-7.50E-10	-7.50E-10	-7.50E-10	-7.50E-10	-7.50E-10	-1.10E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



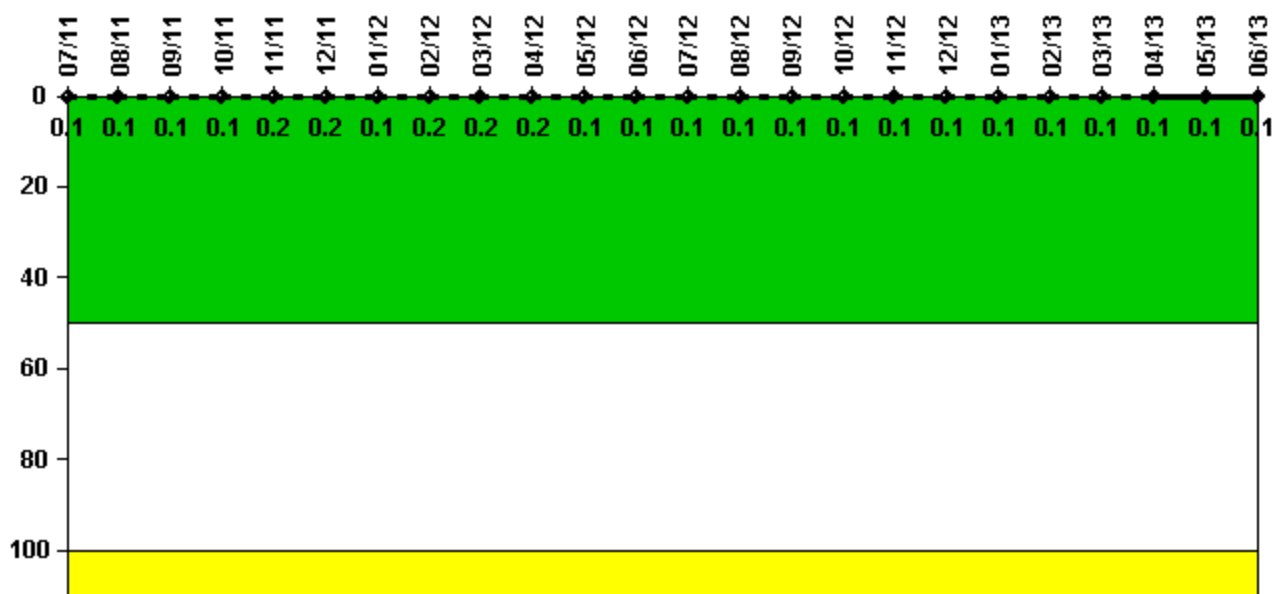
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (ΔCDF)	5.39E-09	5.15E-09	4.47E-09	4.03E-09	2.40E-09	2.16E-09	2.31E-09	2.48E-09
URI (ΔCDF)	-2.04E-08	-2.04E-08	-2.05E-08	-2.02E-08	-2.01E-08	-2.00E-08	-2.01E-08	-2.01E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.50E-08	-1.60E-08	-1.60E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08

Licensee Comments: none

Reactor Coolant System Activity



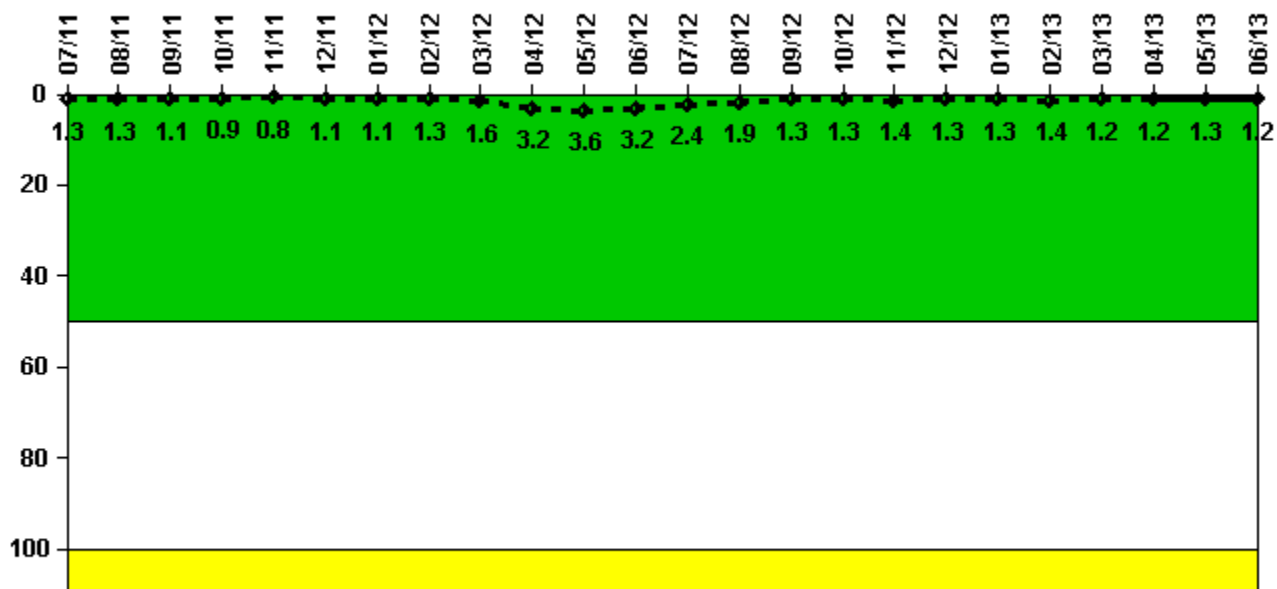
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum activity	0.000985	0.000998	0.001030	0.001110	0.001550	0.001760	0.001200	0.002160	0.001610	0.001840	0.001210	0.000598
Technical specification limit	1.0	1.0	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	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1
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	0.000737	0.000712	0.000984	0.000867	0.000887	0.001030	0.000979	0.001220	0.001160	0.001090	0.001310	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

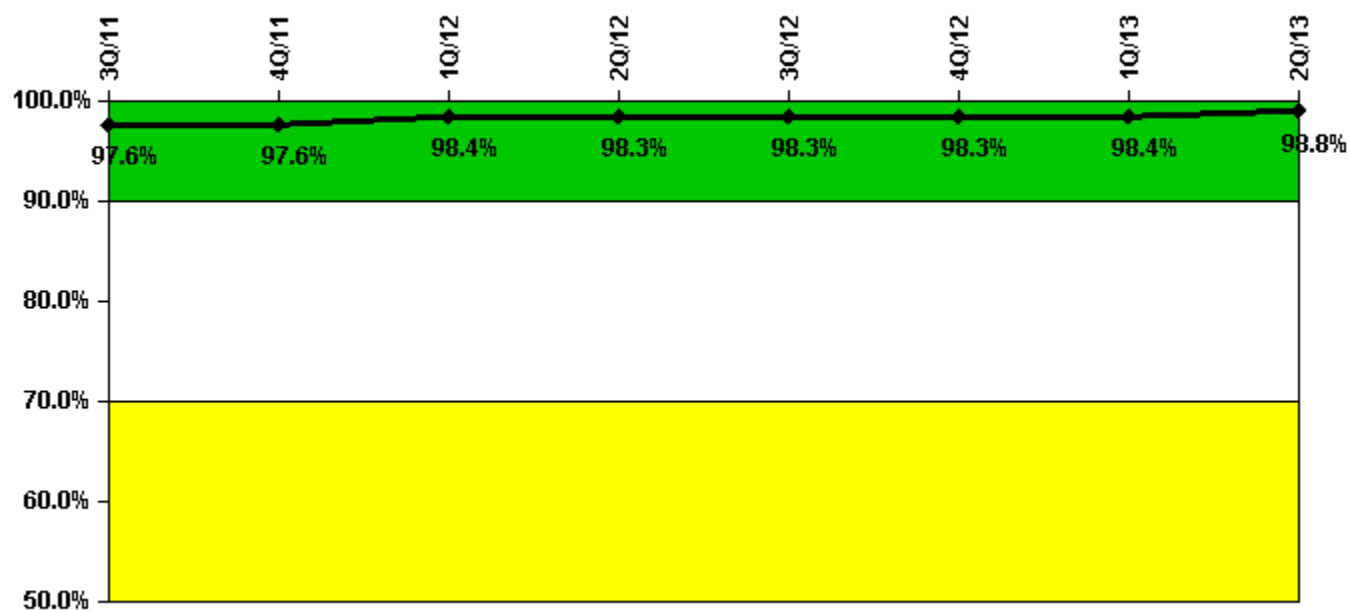
Notes

Reactor Coolant System Leakage	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	0.130	0.130	0.110	0.090	0.080	0.110	0.110	0.130	0.160	0.320	0.360	0.320
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.3	1.1	0.9	0.8	1.1	1.1	1.3	1.6	3.2	3.6	3.2
Reactor Coolant System Leakage	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum leakage	0.240	0.190	0.130	0.130	0.140	0.130	0.130	0.140	0.120	0.120	0.130	0.120
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.4	1.9	1.3	1.3	1.4	1.3	1.3	1.4	1.2	1.2	1.3	1.2

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September and November of 2012. The data has been corrected. This correction does not change the color of any performance indicators.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

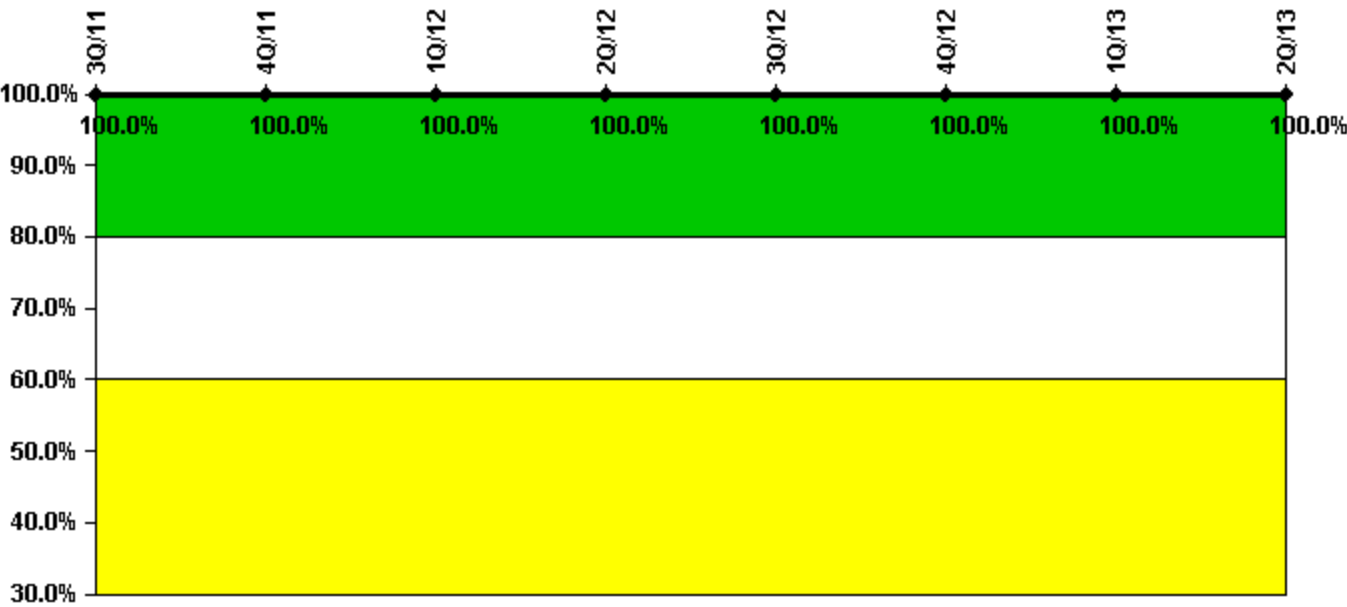
Notes

Drill/Exercise Performance	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful opportunities	31.0	27.0	38.0	24.0	32.0	24.0	48.0	22.0
Total opportunities	31.0	27.0	38.0	26.0	32.0	24.0	49.0	22.0
Indicator value	97.6%	97.6%	98.4%	98.3%	98.3%	98.3%	98.4%	98.8%

Licensee Comments:

3Q/11: An NRC assessment determined a missed classification occurred in June 2011. Historical data was corrected with no change in color.

ERO Drill Participation



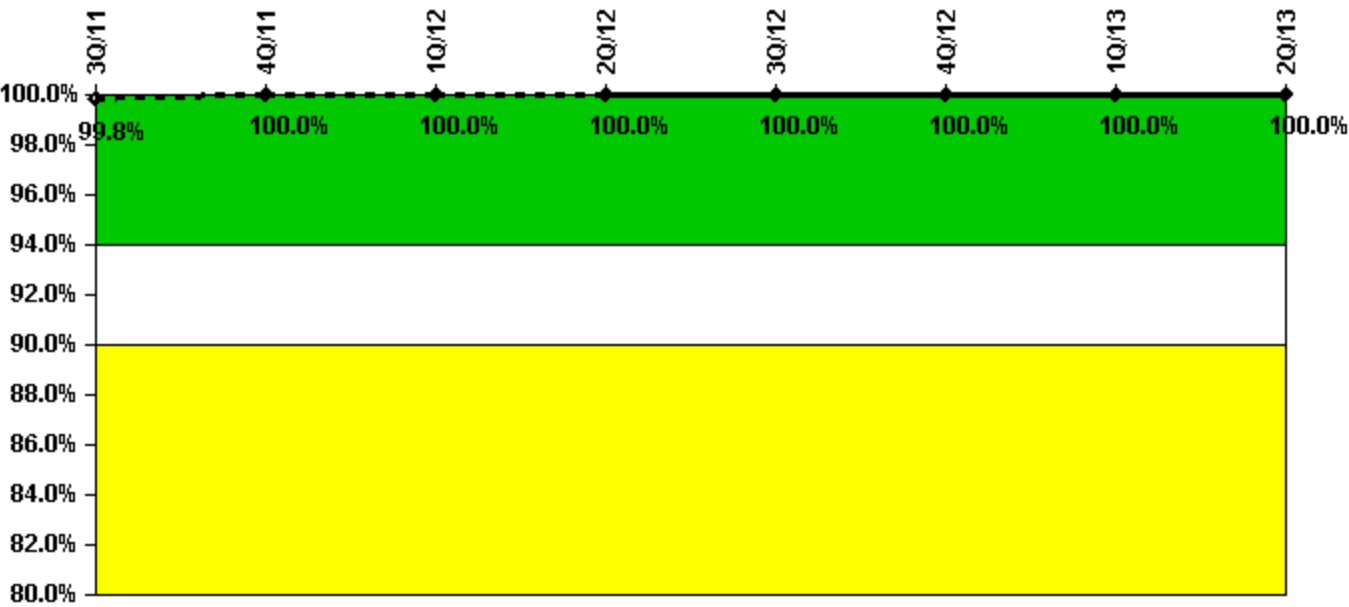
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Participating Key personnel	138.0	141.0	153.0	150.0	151.0	155.0	165.0	161.0
Total Key personnel	138.0	141.0	153.0	150.0	151.0	155.0	165.0	161.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



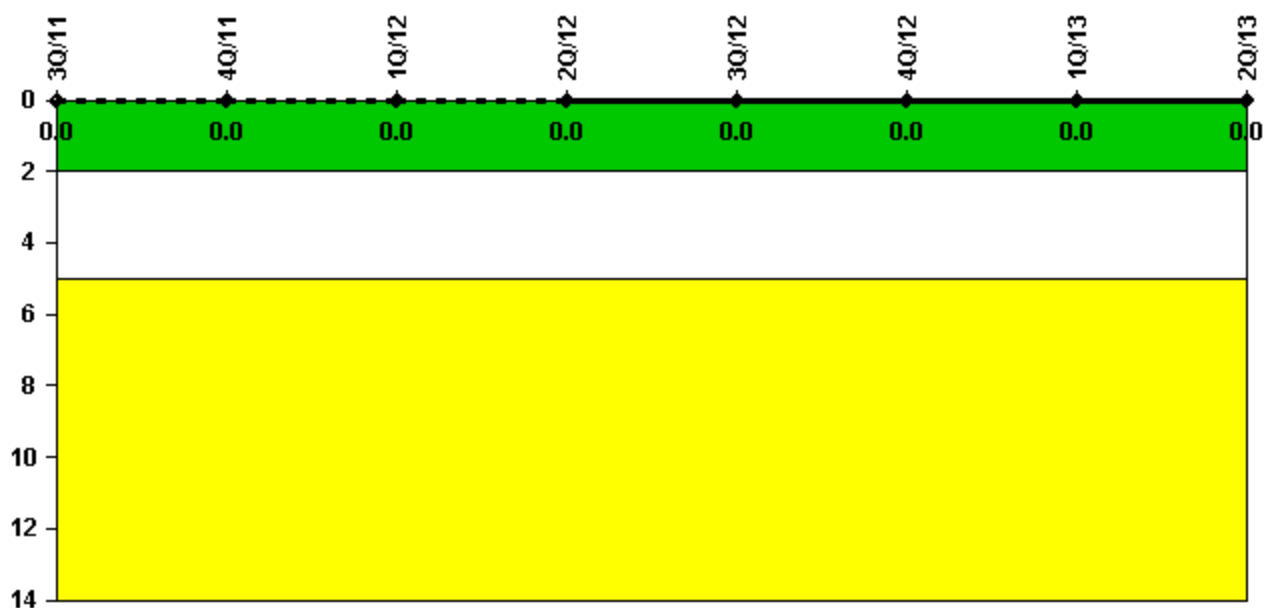
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful siren-tests	476	544	476	544	476	559	497	567
Total sirens-tests	476	544	476	544	476	559	497	568
Indicator value	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



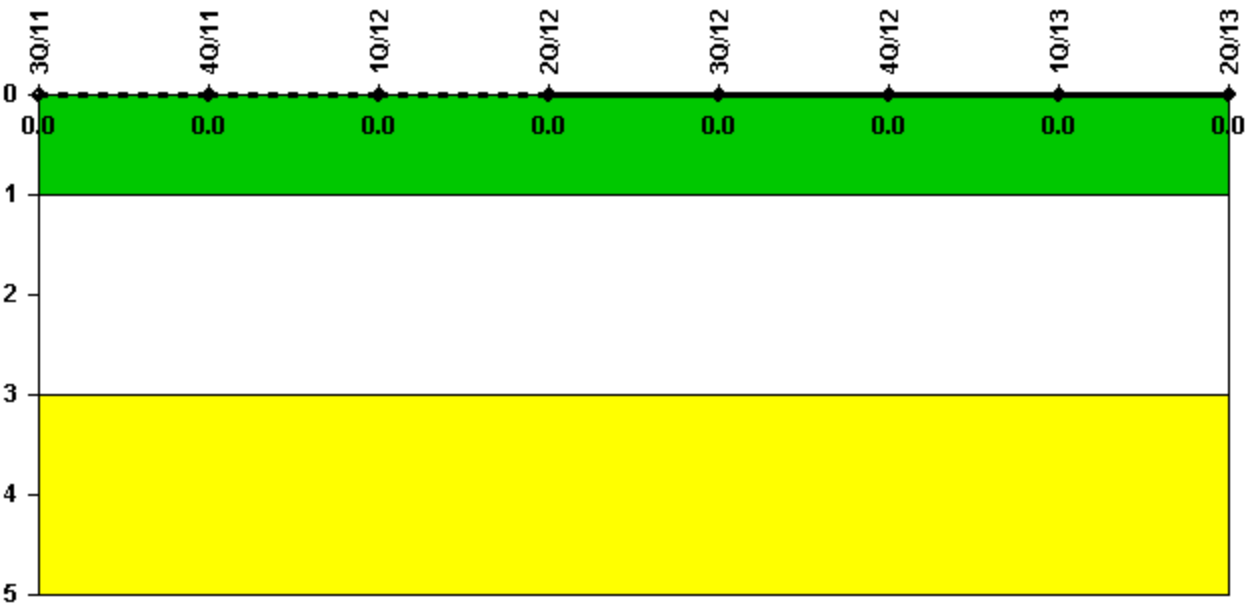
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	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

Surry 1

3Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



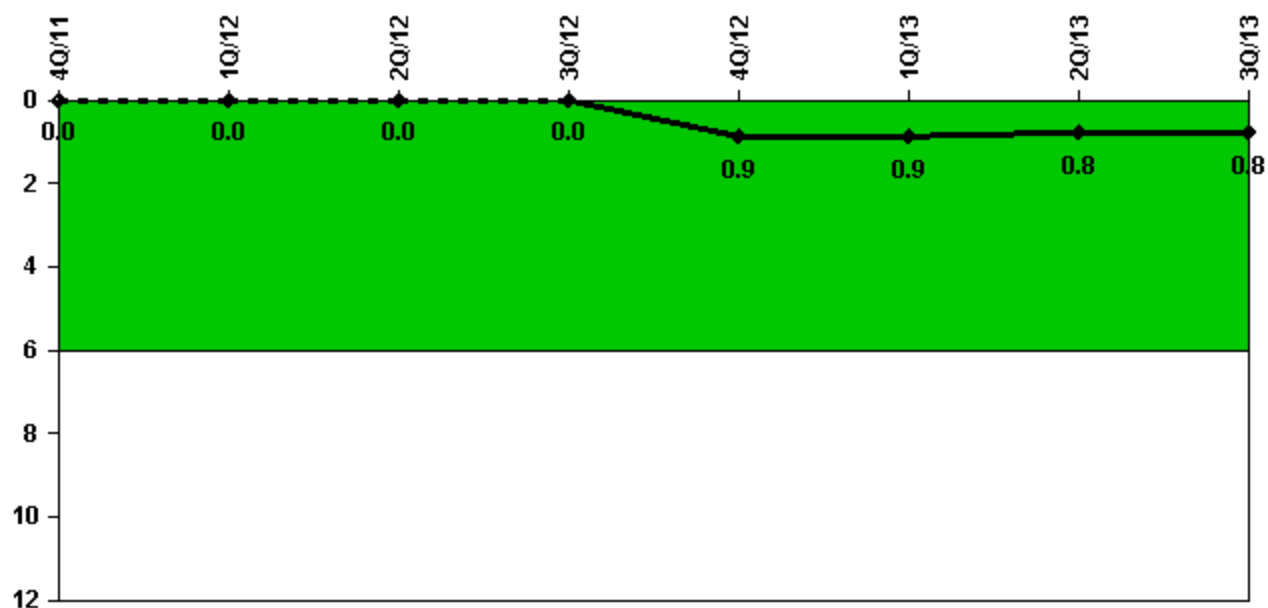
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2183.0	1456.7	2208.0	2209.0	2159.0	2184.0	2208.0
Indicator value	0.8	0.8	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



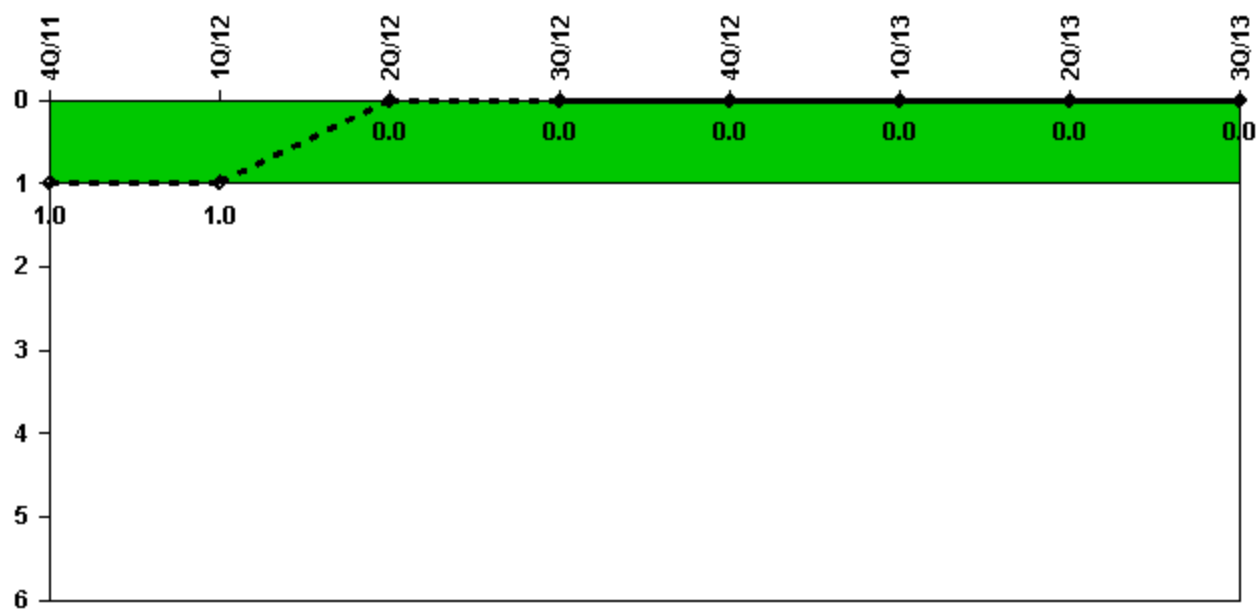
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2209.0	2183.0	1456.7	2208.0	2209.0	2159.0	2184.0	2208.0
Indicator value	0	0	0	0	0.9	0.9	0.8	0.8

Licensee Comments: none

Unplanned Scrams with Complications



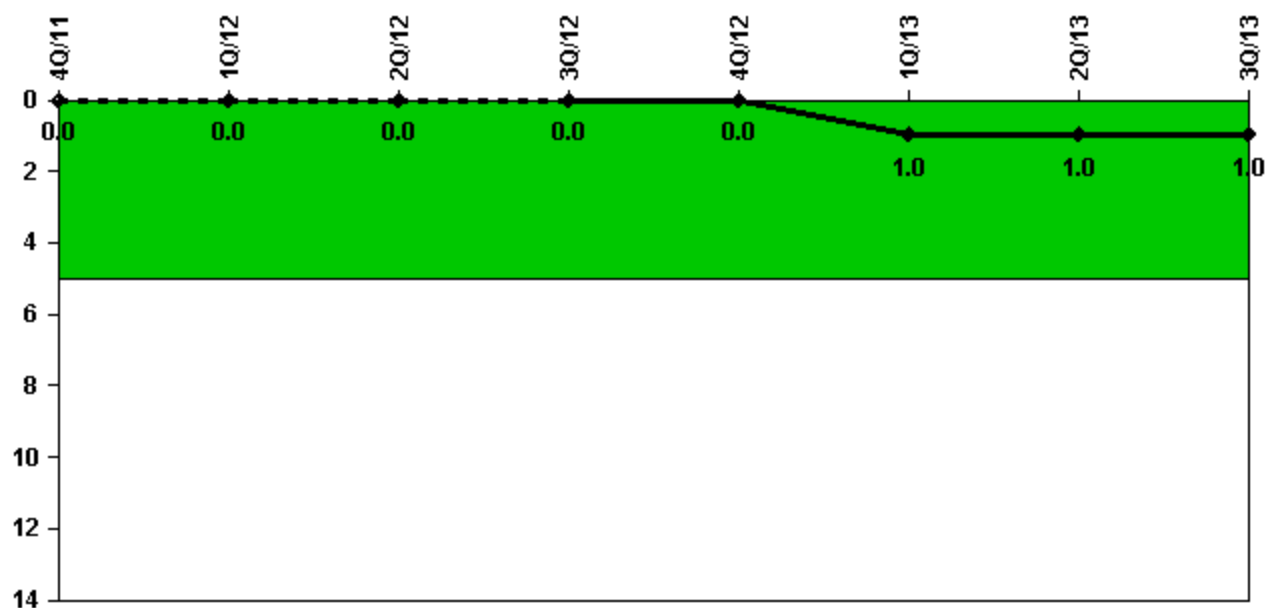
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	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	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

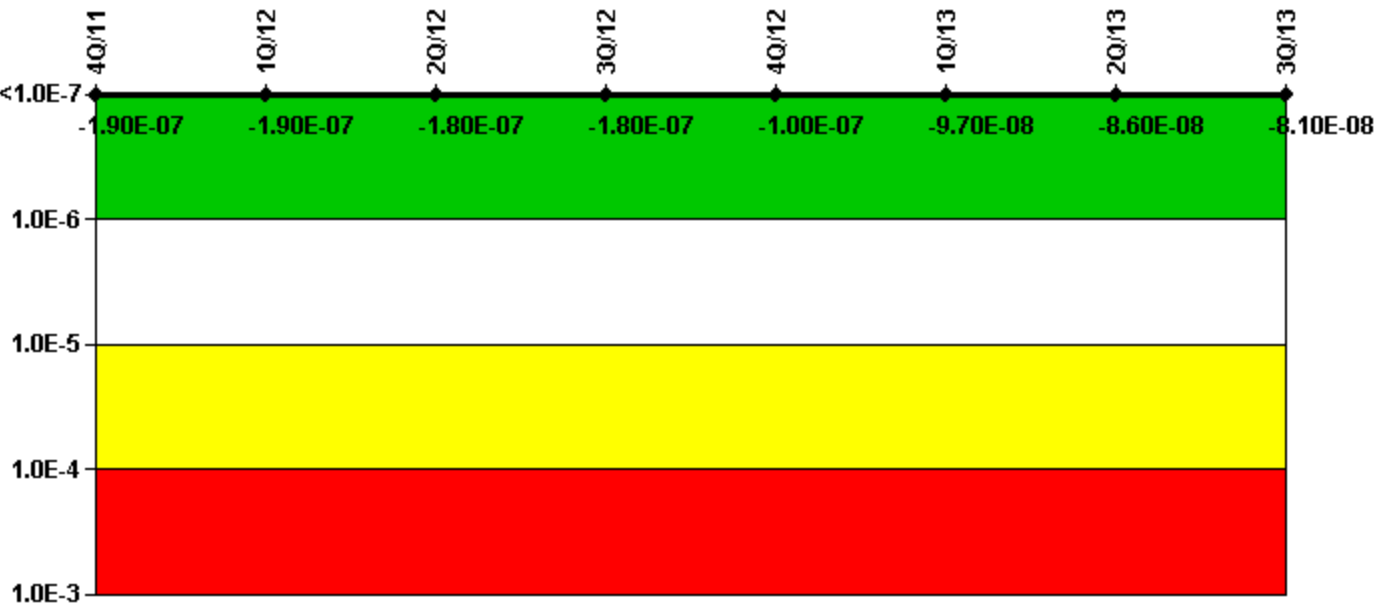
Notes

Safety System Functional Failures (PWR)	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Safety System Functional Failures	0	0	0	0	0	1	0	0
Indicator value	0	0	0	0	0	1	1	1

Licensee Comments:

1Q/13: See Surry LER S1-2013-001-00 dated January 30, 2013.

Mitigating Systems Performance Index, Emergency AC Power System



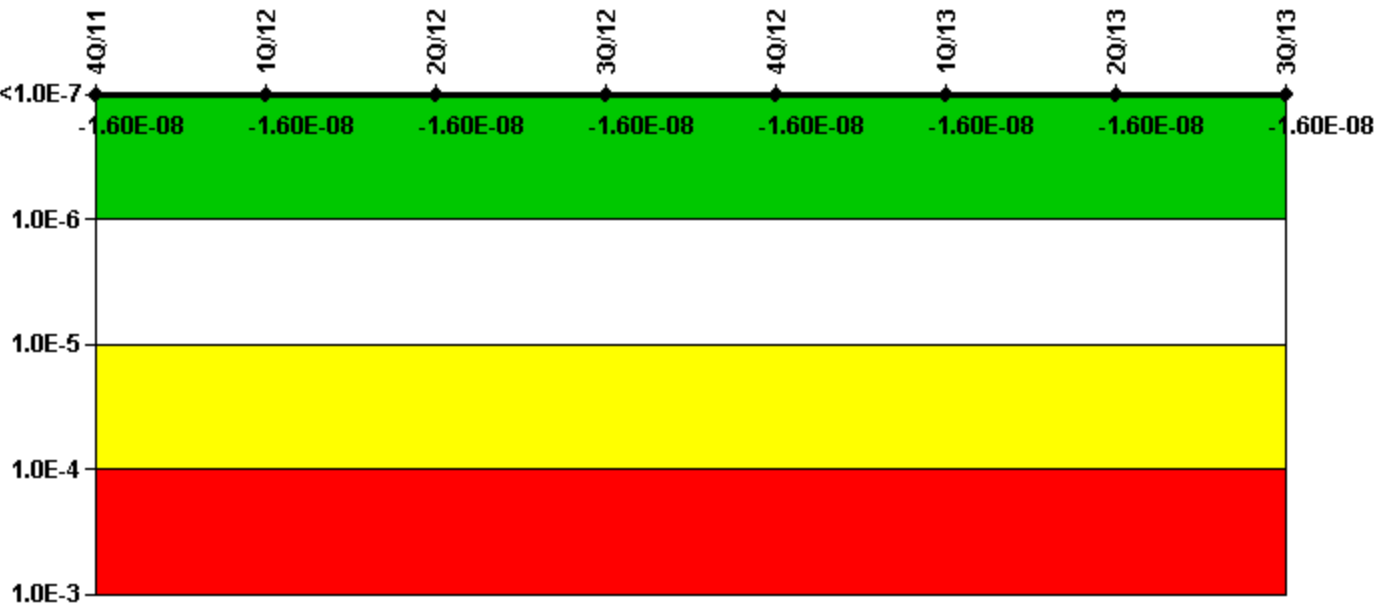
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (ΔCDF)	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08
URI (ΔCDF)	-1.77E-07	-1.74E-07	-1.68E-07	-1.66E-07	-8.66E-08	-8.29E-08	-7.22E-08	-6.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-07	-1.90E-07	-1.80E-07	-1.80E-07	-1.00E-07	-9.70E-08	-8.60E-08	-8.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



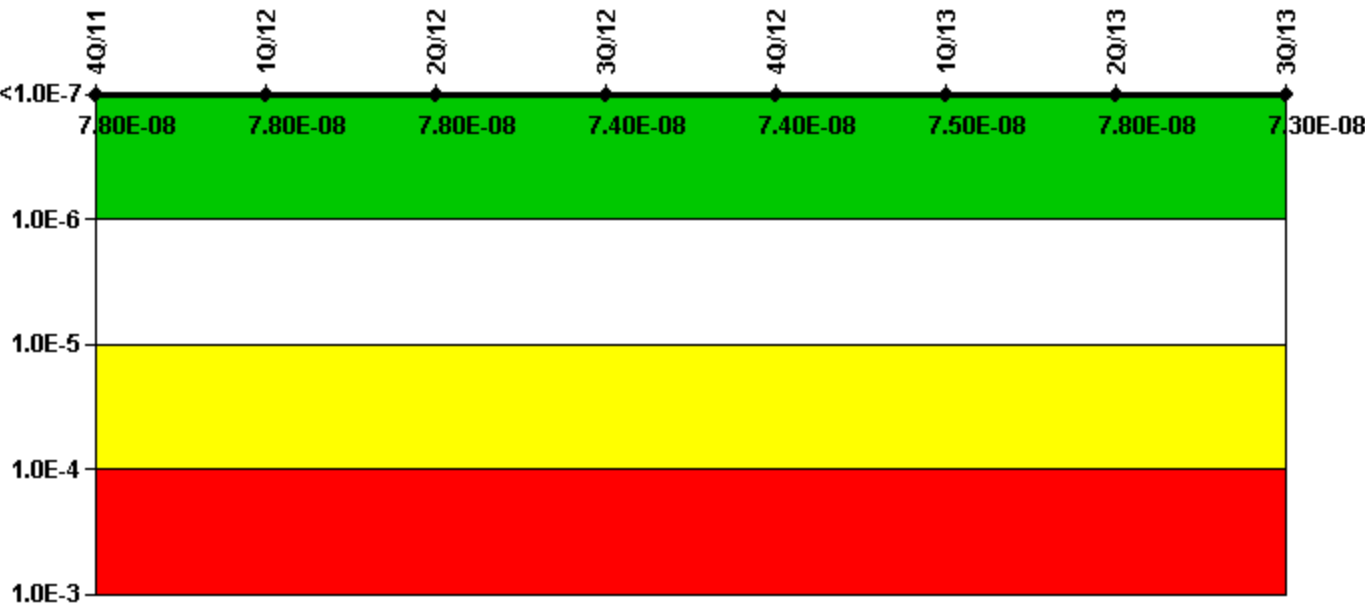
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (ΔCDF)	-9.26E-10	-7.52E-10	-7.51E-10	-7.51E-10	-7.35E-10	-7.21E-10	-7.22E-10	-6.78E-10
URI (ΔCDF)	-1.52E-08	-1.52E-08	-1.53E-08	-1.53E-08	-1.52E-08	-1.51E-08	-1.51E-08	-1.49E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



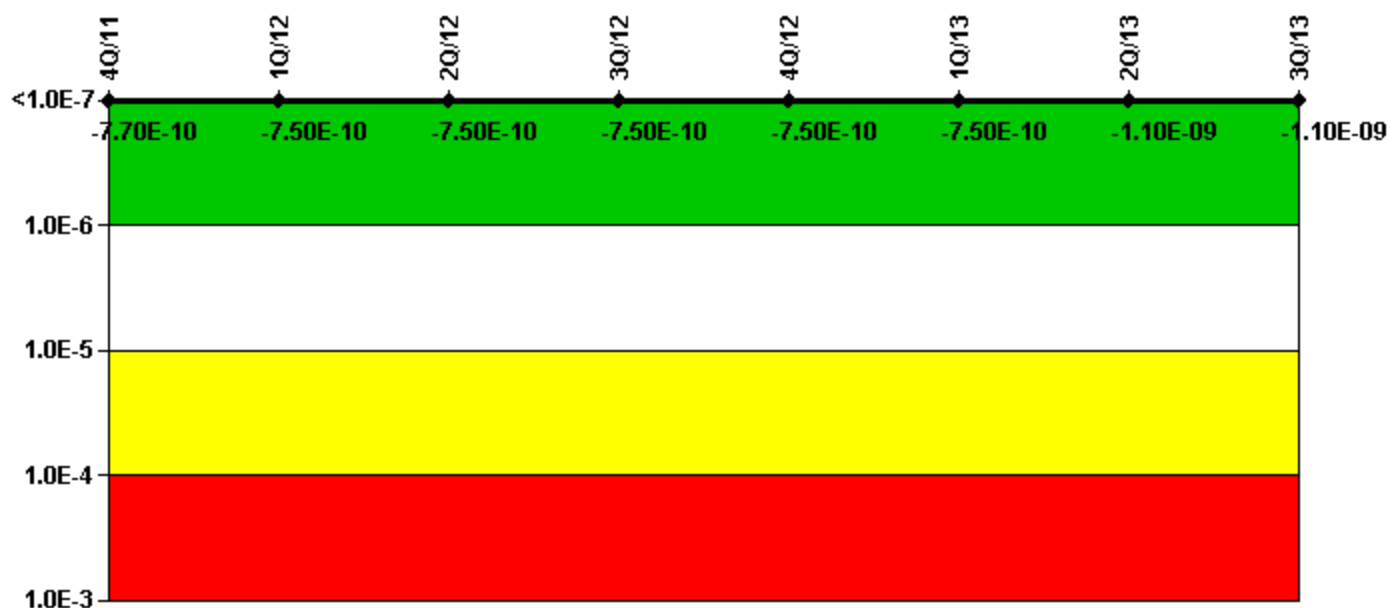
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (ΔCDF)	1.04E-08	7.92E-09	8.75E-09	4.80E-09	4.52E-09	4.93E-09	4.35E-09	1.69E-09
URI (ΔCDF)	6.79E-08	6.96E-08	6.96E-08	6.96E-08	6.96E-08	6.96E-08	7.32E-08	7.14E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.80E-08	7.80E-08	7.80E-08	7.40E-08	7.40E-08	7.50E-08	7.80E-08	7.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



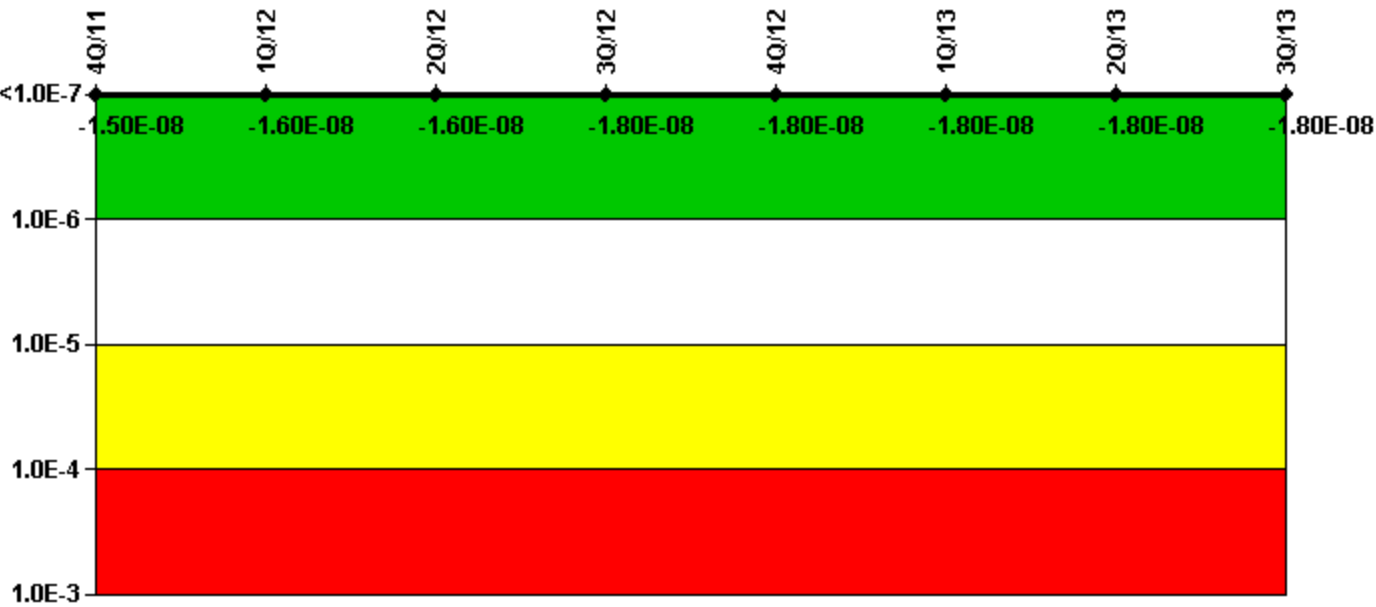
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	1.66E-10	1.81E-10	1.85E-10	1.85E-10	1.85E-10	1.85E-10	-2.01E-10	-2.28E-10
URI (Δ CDF)	-9.35E-10	-9.35E-10	-9.31E-10	-9.31E-10	-9.31E-10	-9.31E-10	-9.02E-10	-8.83E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.70E-10	-7.50E-10	-7.50E-10	-7.50E-10	-7.50E-10	-7.50E-10	-1.10E-09	-1.10E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



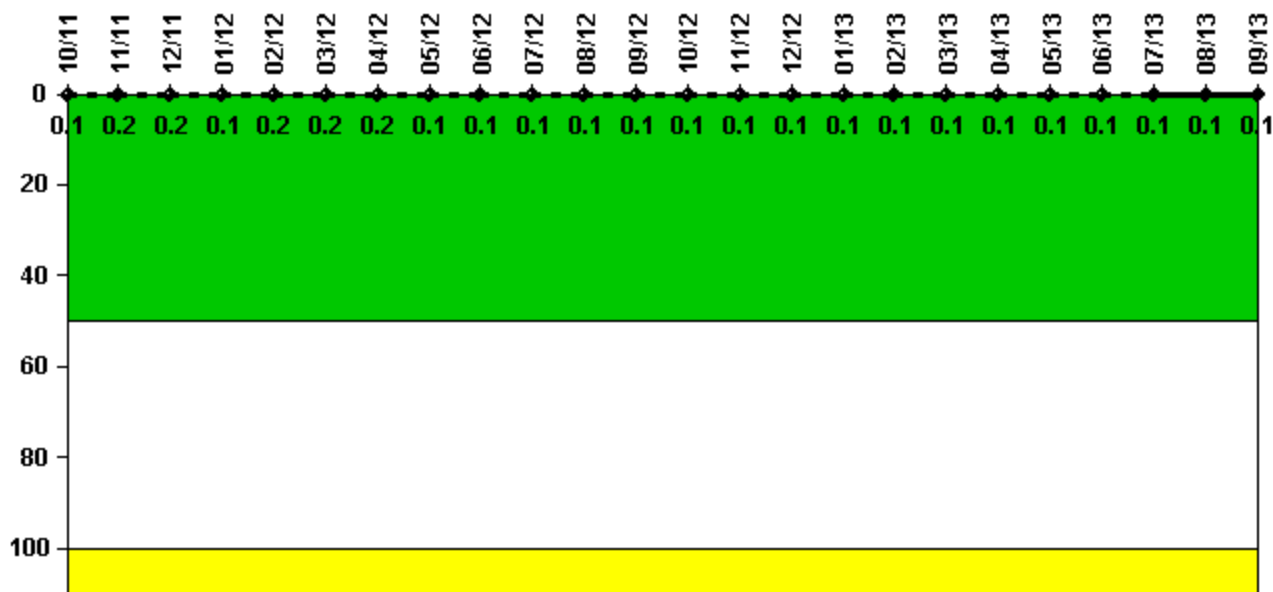
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (ΔCDF)	5.15E-09	4.47E-09	4.03E-09	2.40E-09	2.16E-09	2.31E-09	2.48E-09	1.78E-09
URI (ΔCDF)	-2.04E-08	-2.05E-08	-2.02E-08	-2.01E-08	-2.00E-08	-2.01E-08	-2.01E-08	-2.01E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.60E-08	-1.60E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08

Licensee Comments: none

Reactor Coolant System Activity



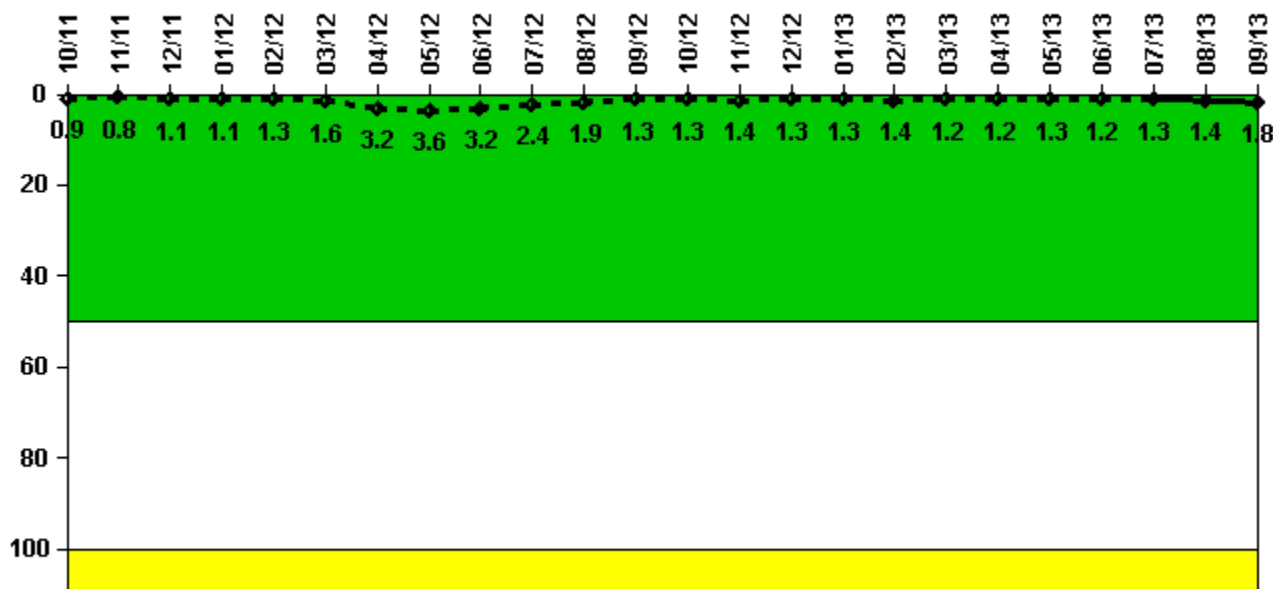
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum activity	0.001110	0.001550	0.001760	0.001200	0.002160	0.001610	0.001840	0.001210	0.000598	0.000737	0.000712	0.000984
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.2	0.2	0.1	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
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	0.000867	0.000887	0.001030	0.000979	0.001220	0.001160	0.001090	0.001310	0.001280	0.001120	0.001320	0.001490
Technical specification limit	1.0	1.0	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

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

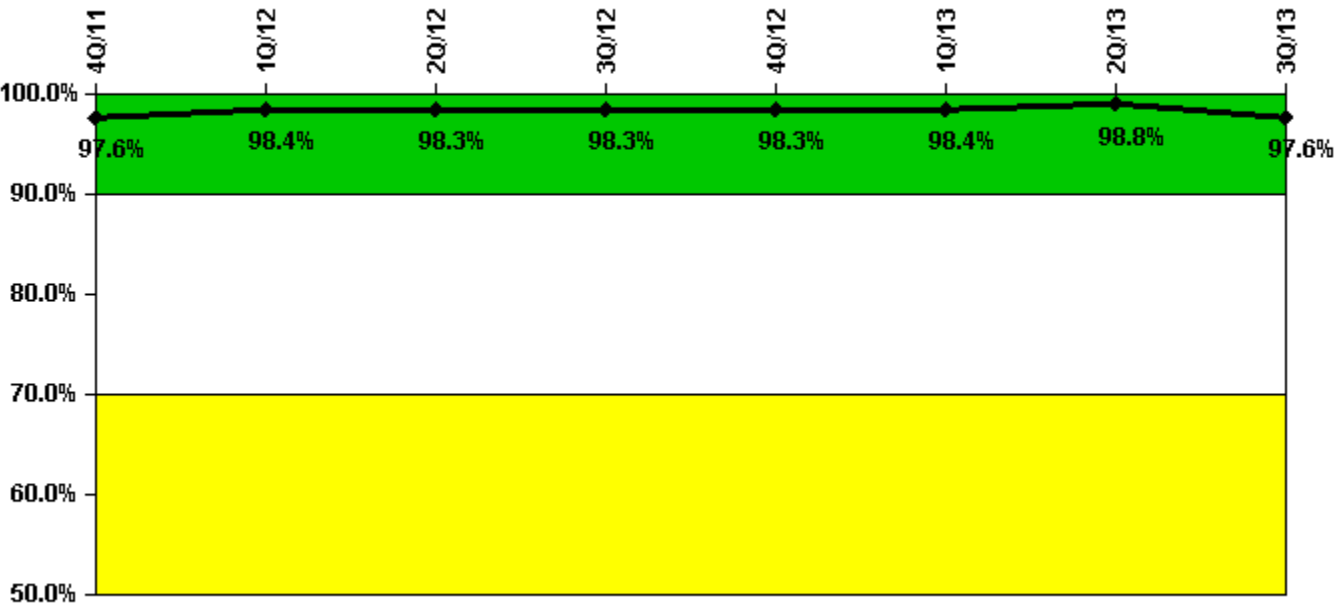
Notes

Reactor Coolant System Leakage	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum leakage	0.090	0.080	0.110	0.110	0.130	0.160	0.320	0.360	0.320	0.240	0.190	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	0.9	0.8	1.1	1.1	1.3	1.6	3.2	3.6	3.2	2.4	1.9	1.3
Reactor Coolant System Leakage	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum leakage	0.130	0.140	0.130	0.130	0.140	0.120	0.120	0.130	0.120	0.130	0.140	0.180
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.4	1.3	1.3	1.4	1.2	1.2	1.3	1.2	1.3	1.4	1.8

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September and November of 2012. The data has been corrected. This correction does not change the color of any performance indicators.

Drill/Exercise Performance



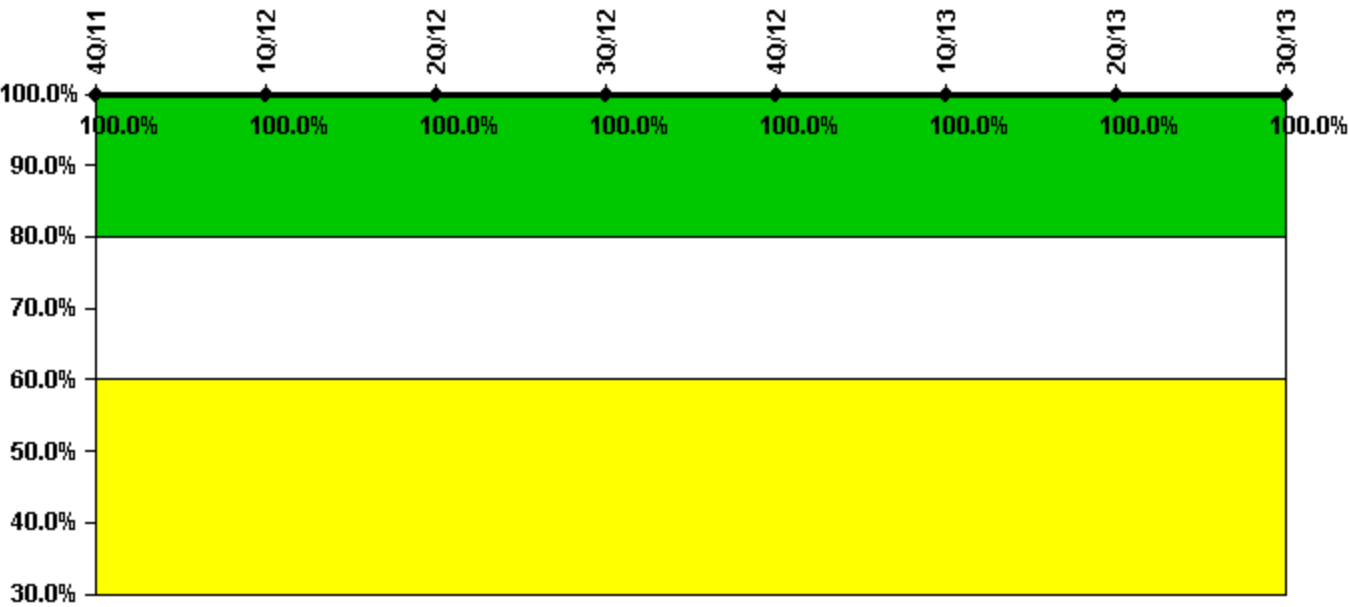
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful opportunities	27.0	38.0	24.0	32.0	24.0	48.0	22.0	28.0
Total opportunities	27.0	38.0	26.0	32.0	24.0	49.0	22.0	31.0
Indicator value	97.6%	98.4%	98.3%	98.3%	98.3%	98.4%	98.8%	97.6%

Licensee Comments: none

ERO Drill Participation



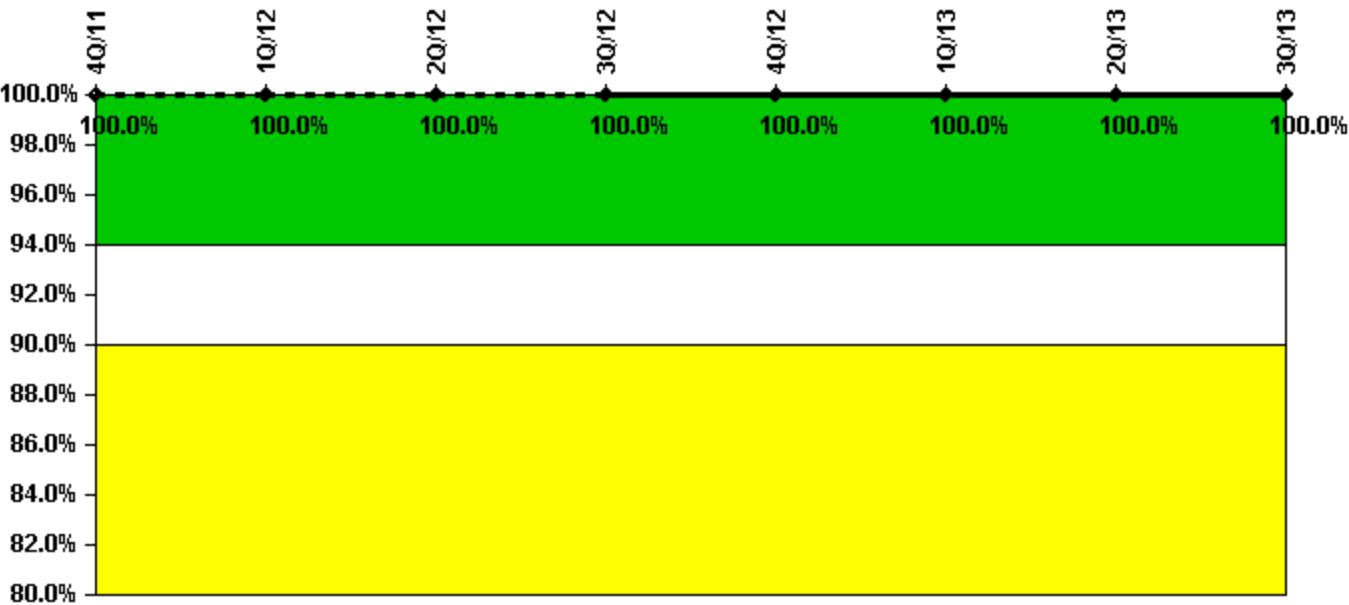
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Participating Key personnel	141.0	153.0	150.0	151.0	155.0	165.0	161.0	160.0
Total Key personnel	141.0	153.0	150.0	151.0	155.0	165.0	161.0	160.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



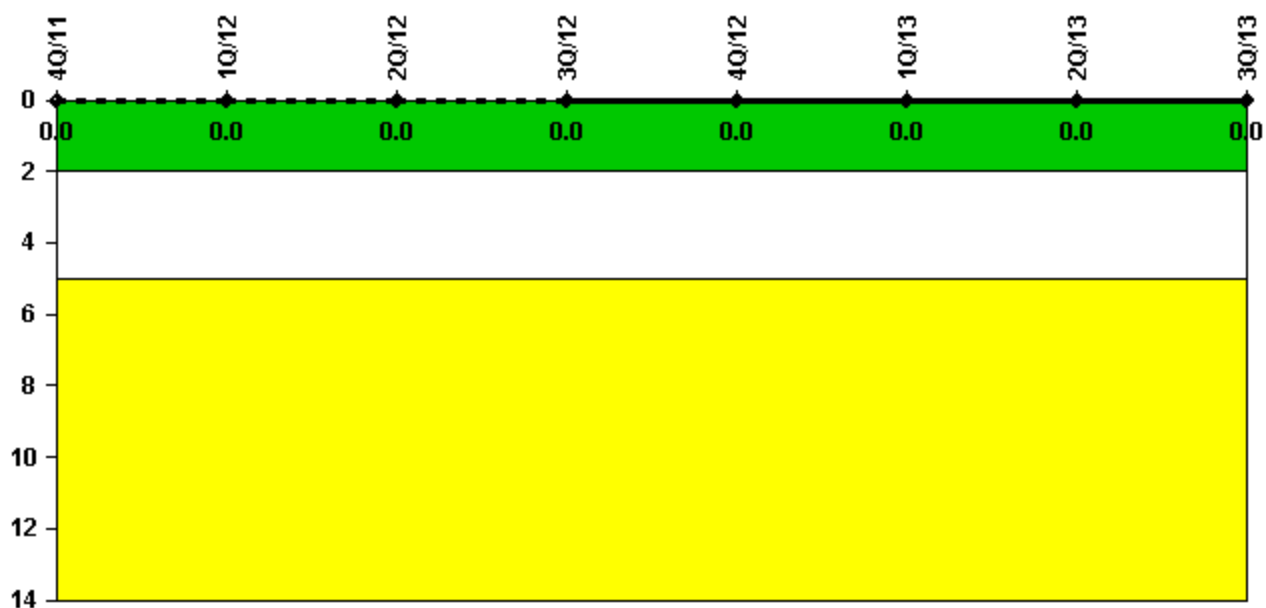
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful siren-tests	544	476	544	476	559	497	567	497
Total sirens-tests	544	476	544	476	559	497	568	497
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



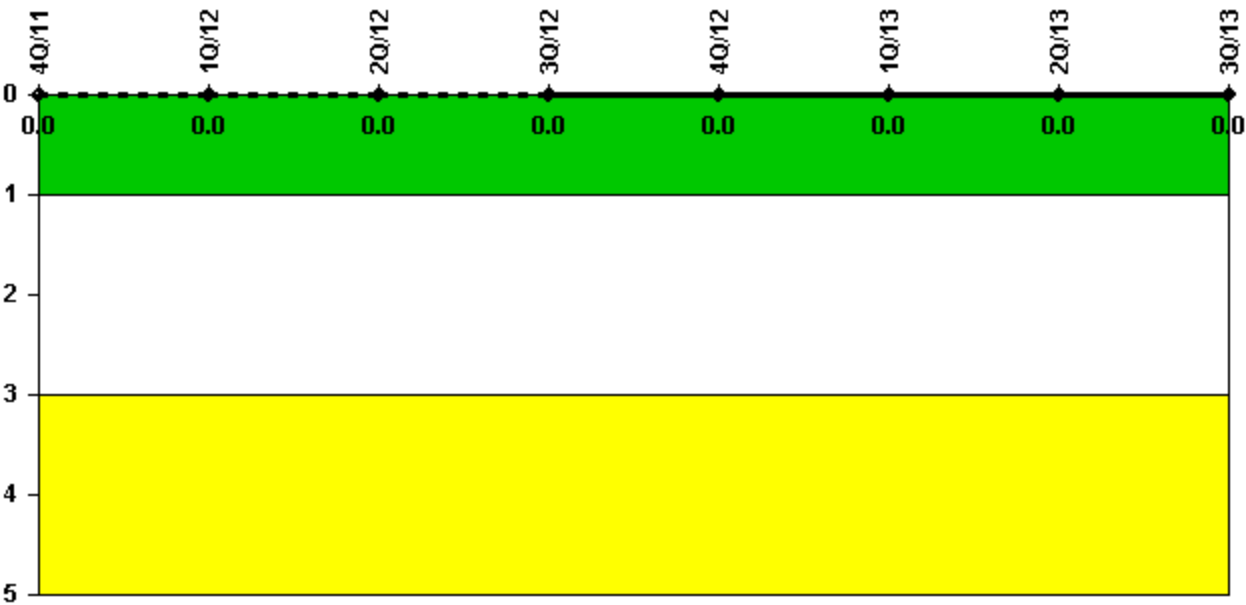
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

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

Last Modified: October 22, 2013

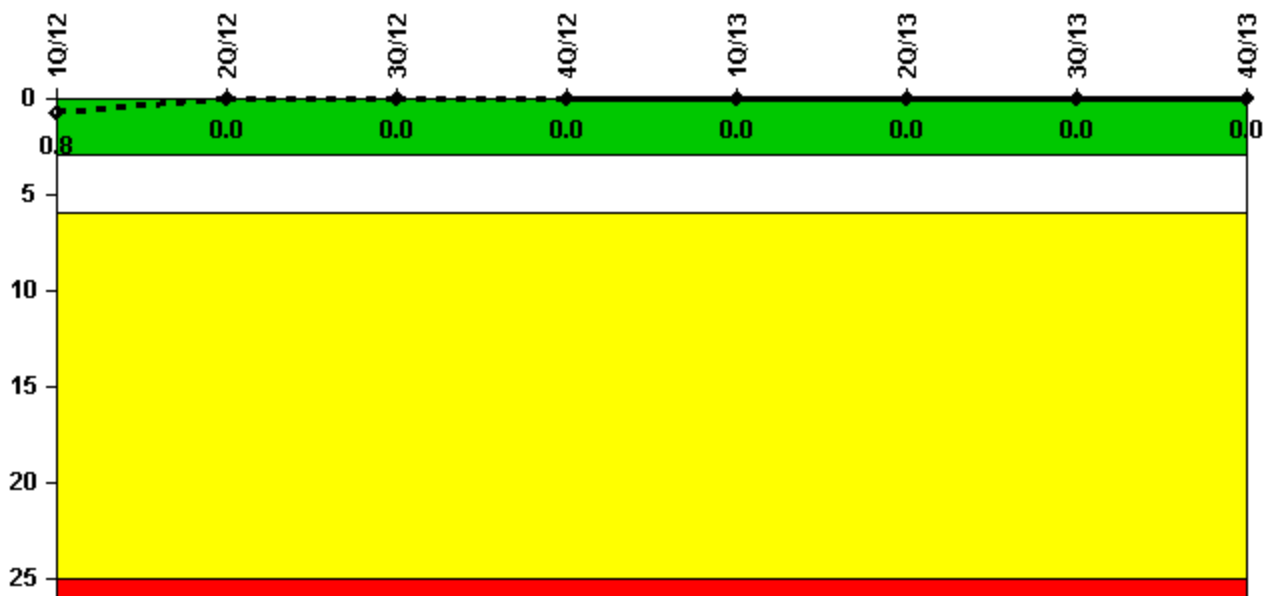
Surry 1

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



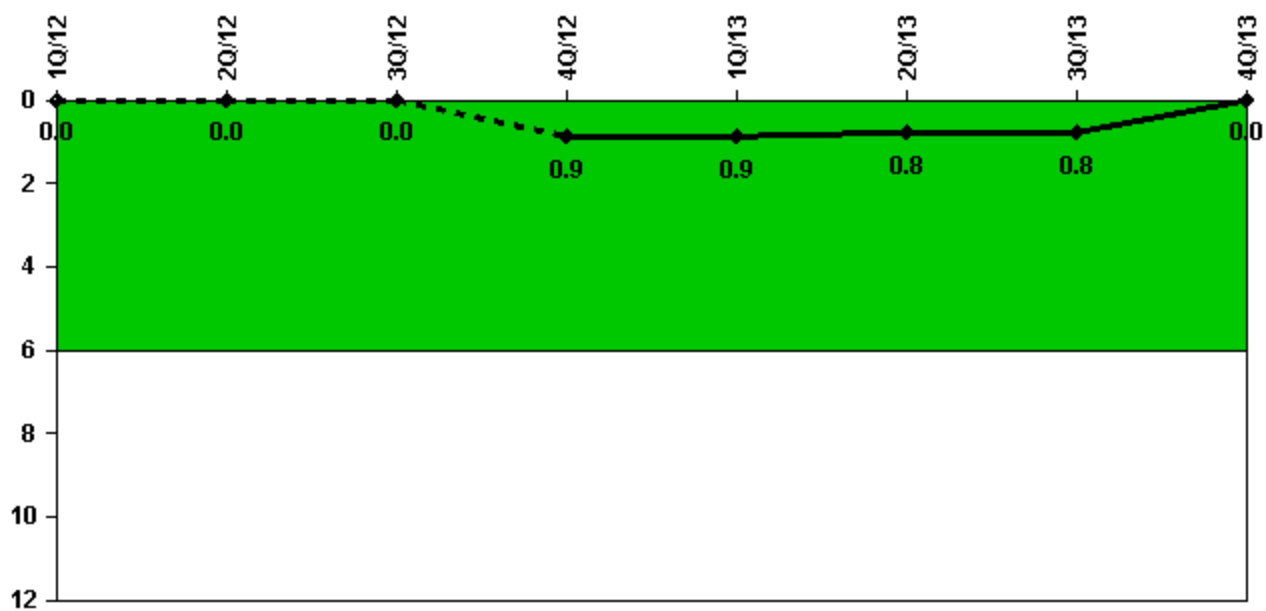
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	1456.7	2208.0	2209.0	2159.0	2184.0	2208.0	1450.9
Indicator value	0.8	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



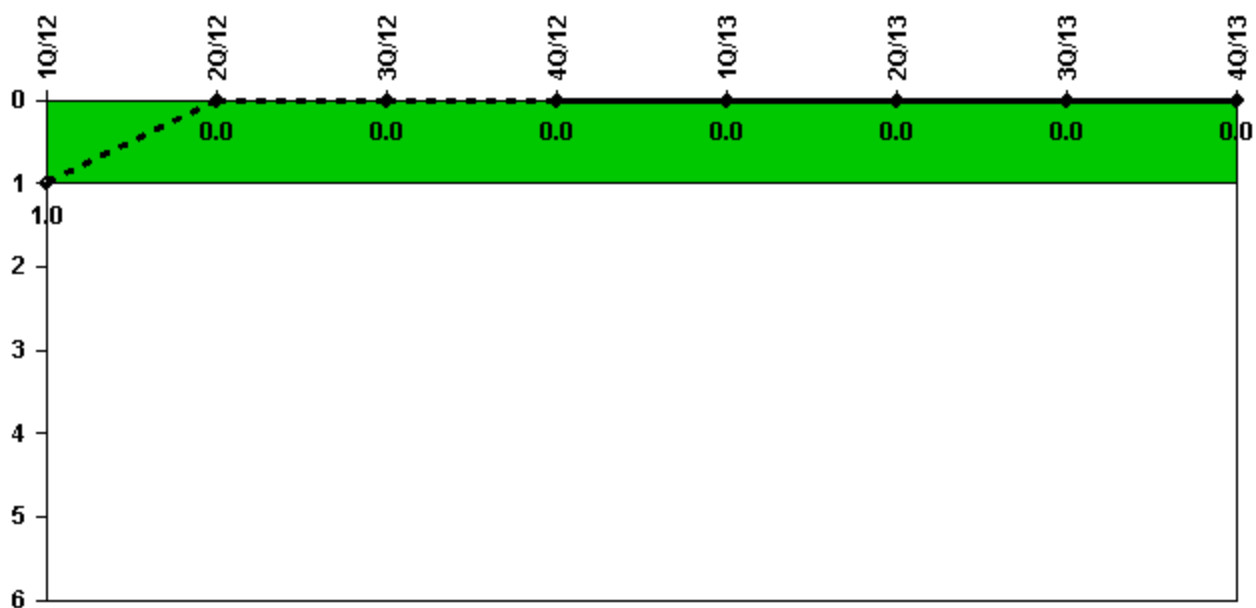
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2183.0	1456.7	2208.0	2209.0	2159.0	2184.0	2208.0	1450.9
Indicator value	0	0	0	0.9	0.9	0.8	0.8	0

Licensee Comments: none

Unplanned Scrams with Complications



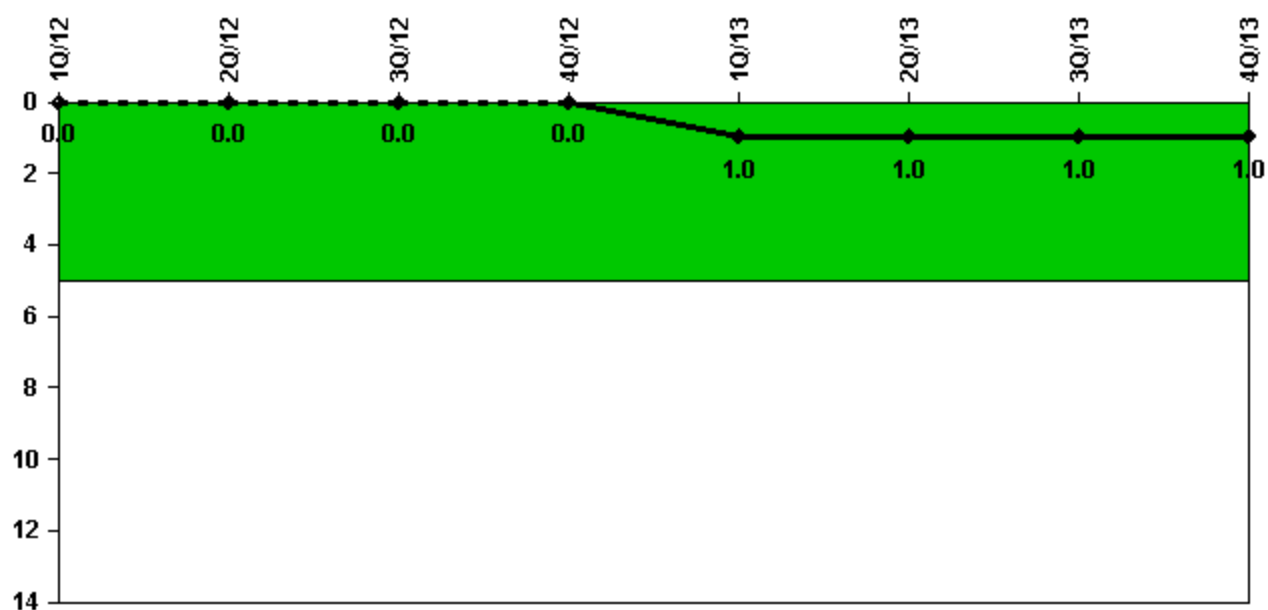
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	1.0	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

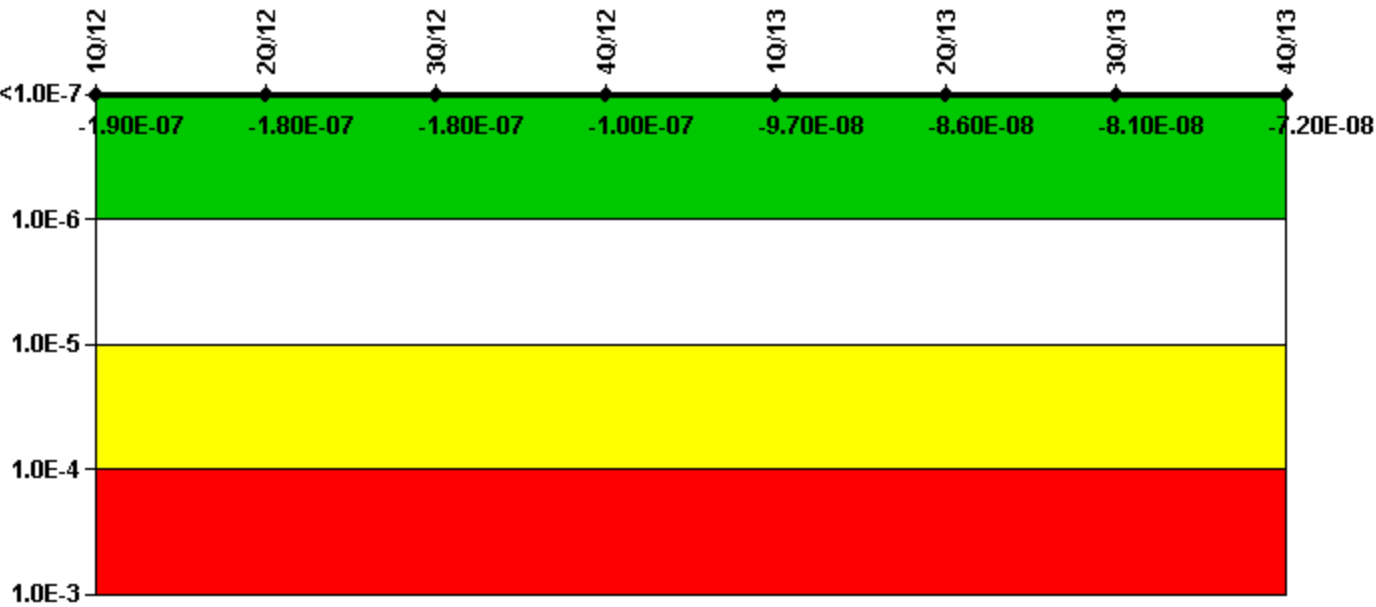
Notes

Safety System Functional Failures (PWR)	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Safety System Functional Failures	0	0	0	0	1	0	0	0
Indicator value	0	0	0	0	1	1	1	1

Licensee Comments:

1Q/13: See Surry LER S1-2013-001-00 dated January 30, 2013.

Mitigating Systems Performance Index, Emergency AC Power System



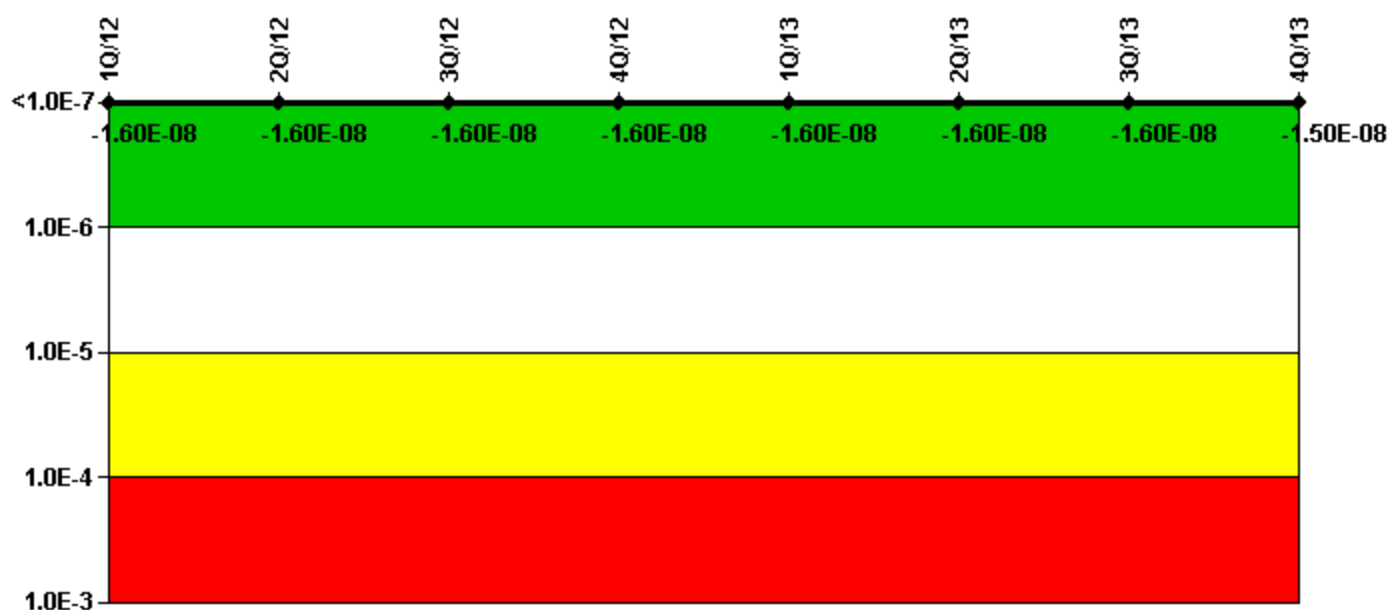
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	-1.66E-08	-1.66E-08	-1.66E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08
URI (ΔCDF)	-1.74E-07	-1.68E-07	-1.66E-07	-8.66E-08	-8.29E-08	-7.22E-08	-6.70E-08	-5.84E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-07	-1.80E-07	-1.80E-07	-1.00E-07	-9.70E-08	-8.60E-08	-8.10E-08	-7.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



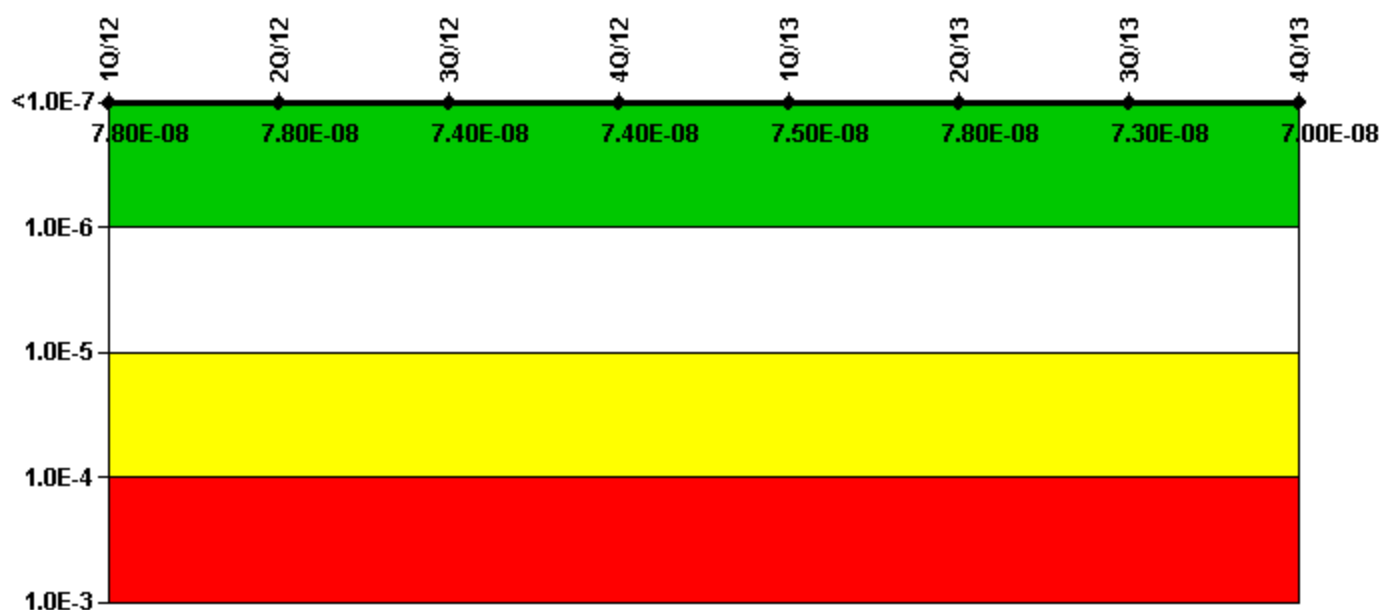
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-7.52E-10	-7.51E-10	-7.51E-10	-7.35E-10	-7.21E-10	-7.22E-10	-6.78E-10	-6.82E-10
URI (Δ CDF)	-1.52E-08	-1.53E-08	-1.53E-08	-1.52E-08	-1.51E-08	-1.51E-08	-1.49E-08	-1.47E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



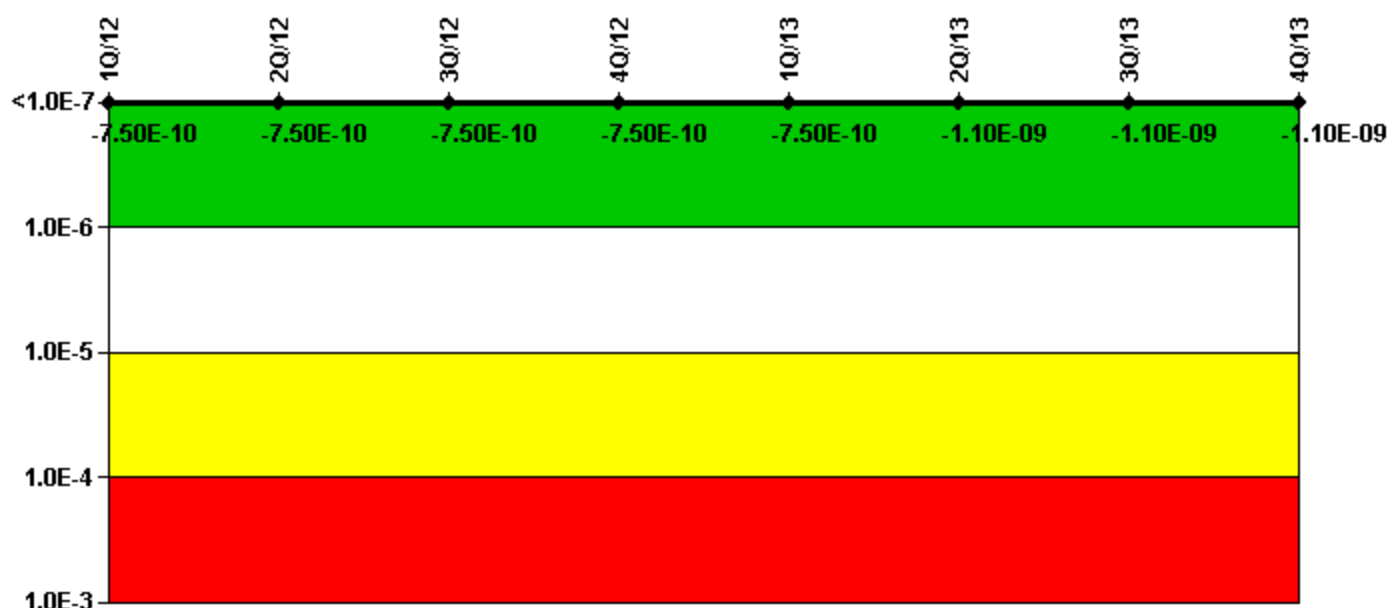
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	7.92E-09	8.75E-09	4.80E-09	4.52E-09	4.93E-09	4.35E-09	1.69E-09	2.32E-09
URI (Δ CDF)	6.96E-08	6.96E-08	6.96E-08	6.96E-08	6.96E-08	7.32E-08	7.14E-08	6.79E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.80E-08	7.80E-08	7.40E-08	7.40E-08	7.50E-08	7.80E-08	7.30E-08	7.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



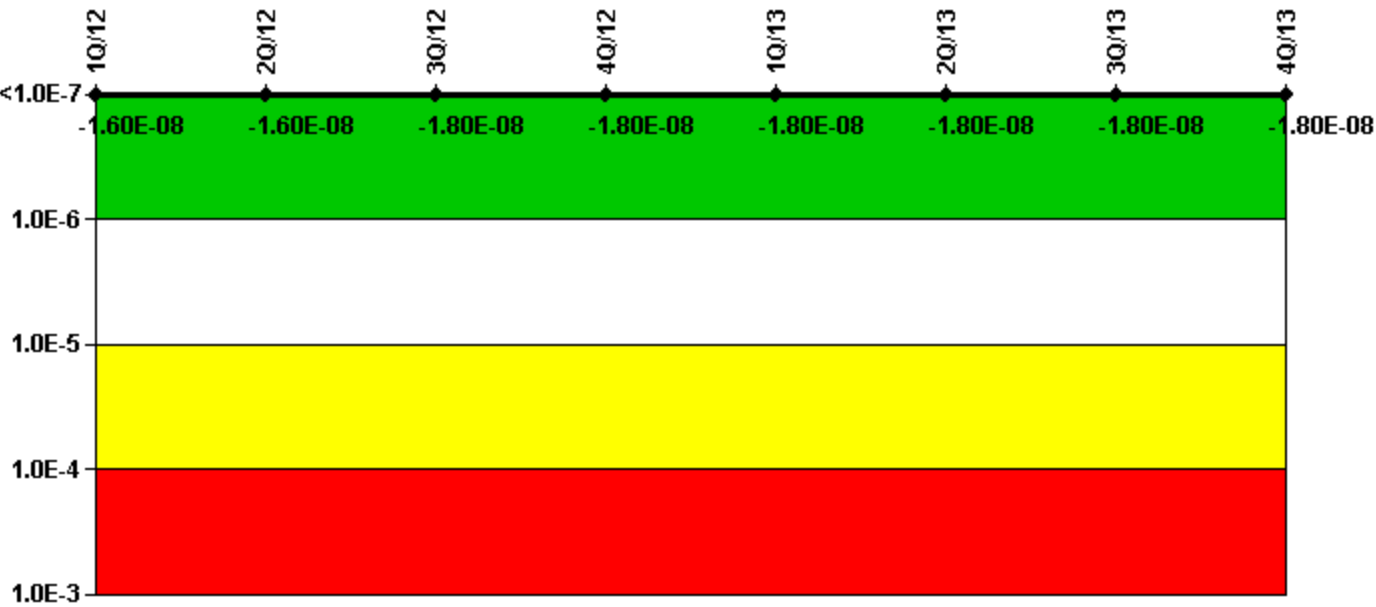
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	1.81E-10	1.85E-10	1.85E-10	1.85E-10	1.85E-10	-2.01E-10	-2.28E-10	-2.29E-10
URI (Δ CDF)	-9.35E-10	-9.31E-10	-9.31E-10	-9.31E-10	-9.31E-10	-9.02E-10	-8.83E-10	-8.90E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.50E-10	-7.50E-10	-7.50E-10	-7.50E-10	-7.50E-10	-1.10E-09	-1.10E-09	-1.10E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



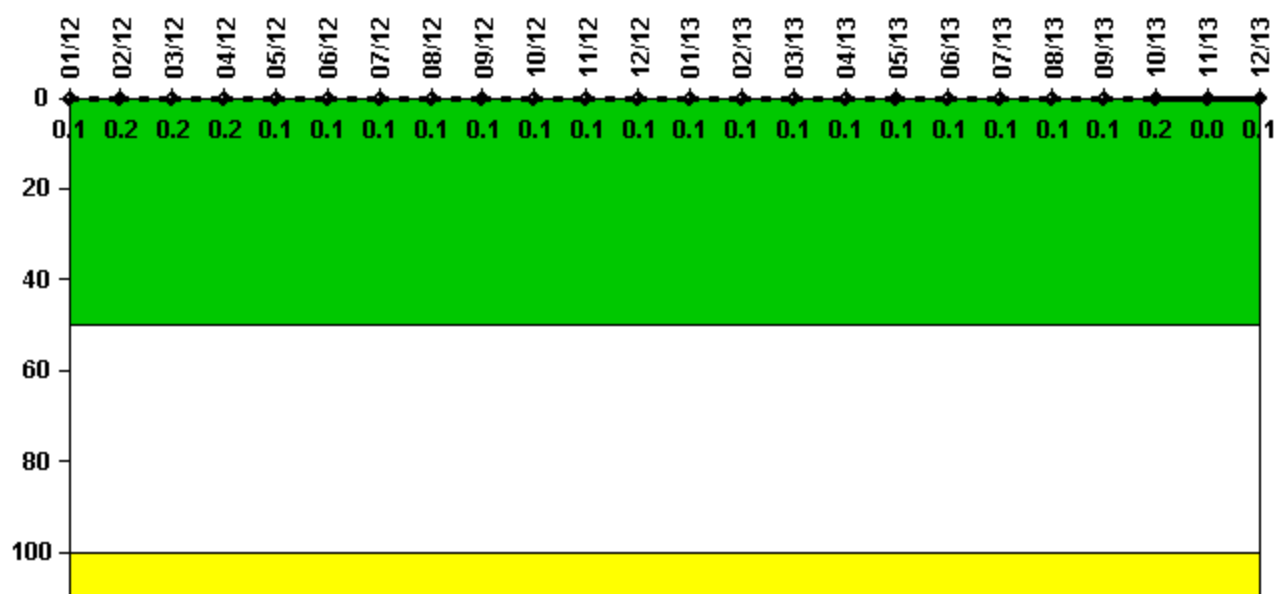
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	4.47E-09	4.03E-09	2.40E-09	2.16E-09	2.31E-09	2.48E-09	1.78E-09	1.77E-09
URI (ΔCDF)	-2.05E-08	-2.02E-08	-2.01E-08	-2.00E-08	-2.01E-08	-2.01E-08	-2.01E-08	-1.99E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08

Licensee Comments: none

Reactor Coolant System Activity



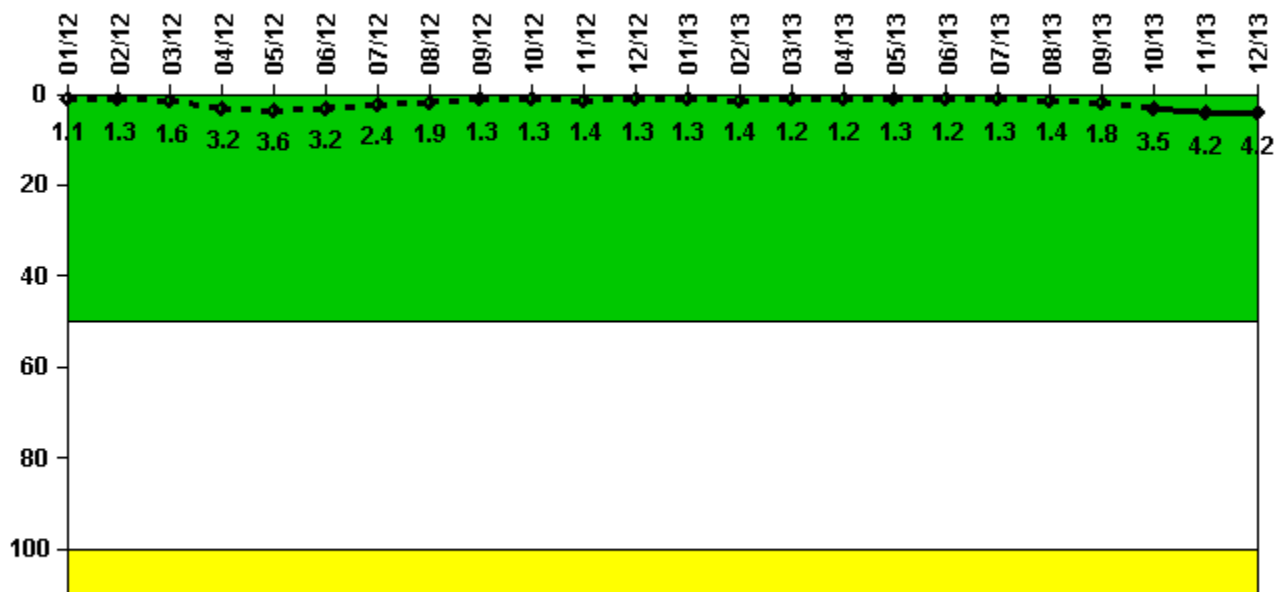
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum activity	0.001200	0.002160	0.001610	0.001840	0.001210	0.000598	0.000737	0.000712	0.000984	0.000867	0.000887	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	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum activity	0.000979	0.001220	0.001160	0.001090	0.001310	0.001280	0.001120	0.001320	0.001490	0.001580	0.000475	0.000601
Technical specification limit	1.0	1.0	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	0.2	0	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

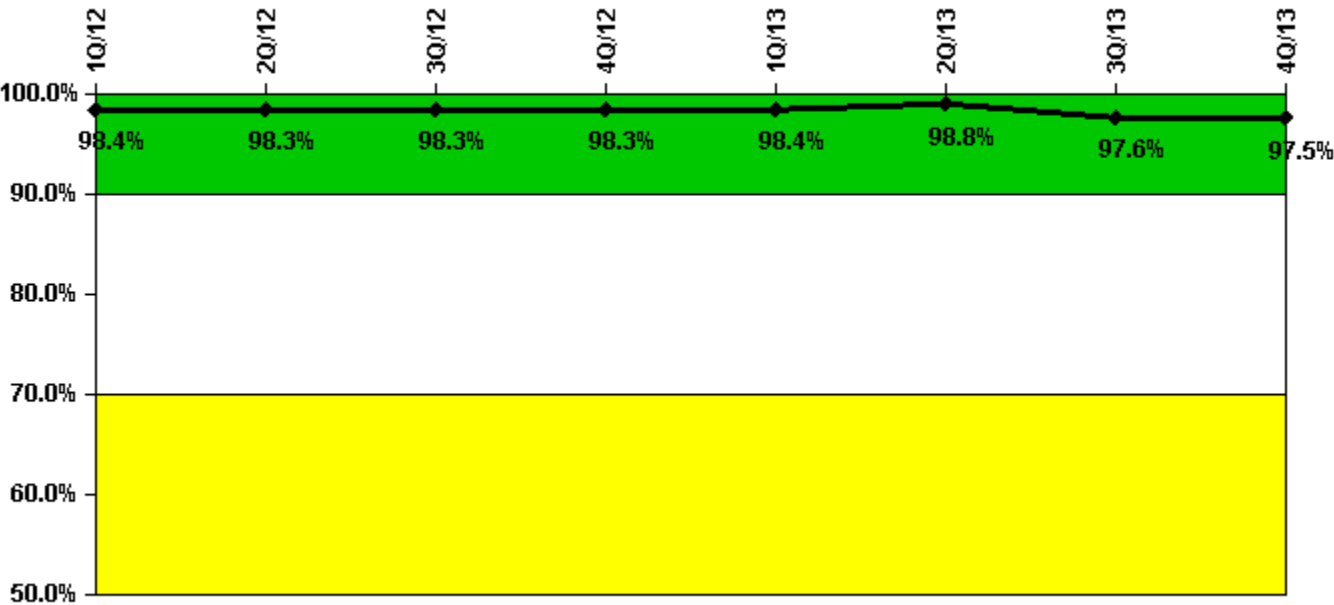
Notes

Reactor Coolant System Leakage	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum leakage	0.110	0.130	0.160	0.320	0.360	0.320	0.240	0.190	0.130	0.130	0.140	0.130
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.1	1.3	1.6	3.2	3.6	3.2	2.4	1.9	1.3	1.3	1.4	1.3
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	0.130	0.140	0.120	0.120	0.130	0.120	0.130	0.140	0.180	0.350	0.420	0.420
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.4	1.2	1.2	1.3	1.2	1.3	1.4	1.8	3.5	4.2	4.2

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September and November of 2012. The data has been corrected. This correction does not change the color of any performance indicators.

Drill/Exercise Performance



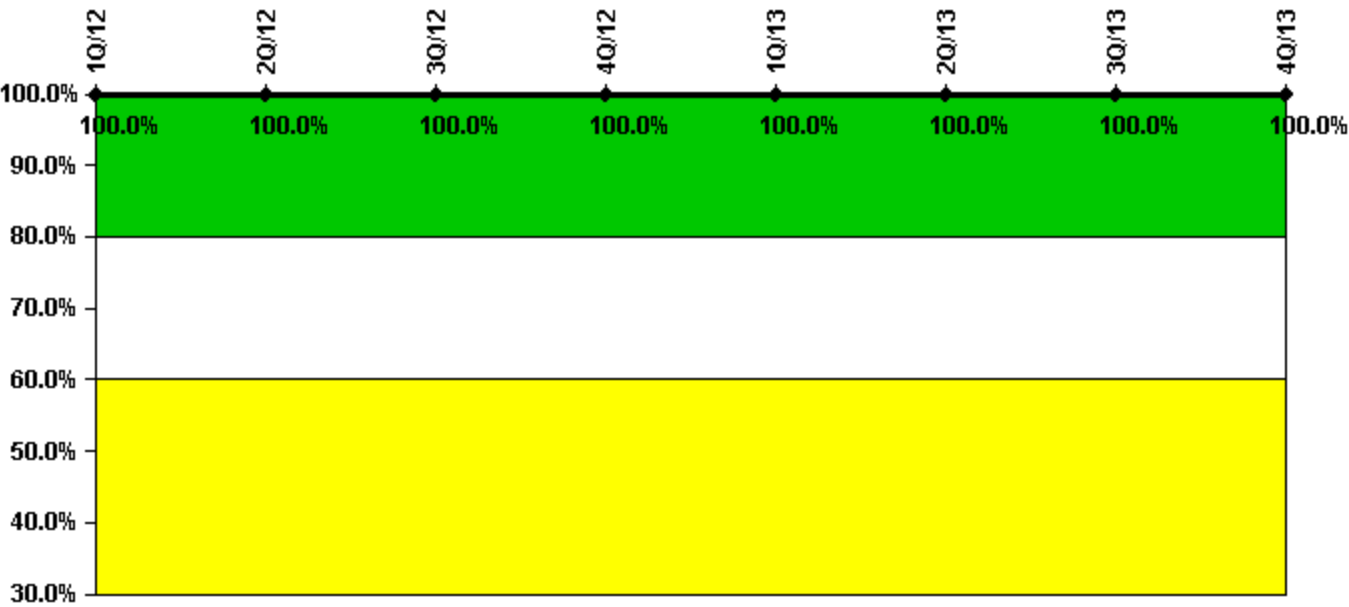
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful opportunities	38.0	24.0	32.0	24.0	48.0	22.0	28.0	14.0
Total opportunities	38.0	26.0	32.0	24.0	49.0	22.0	31.0	14.0
Indicator value	98.4%	98.3%	98.3%	98.3%	98.4%	98.8%	97.6%	97.5%

Licensee Comments: none

ERO Drill Participation



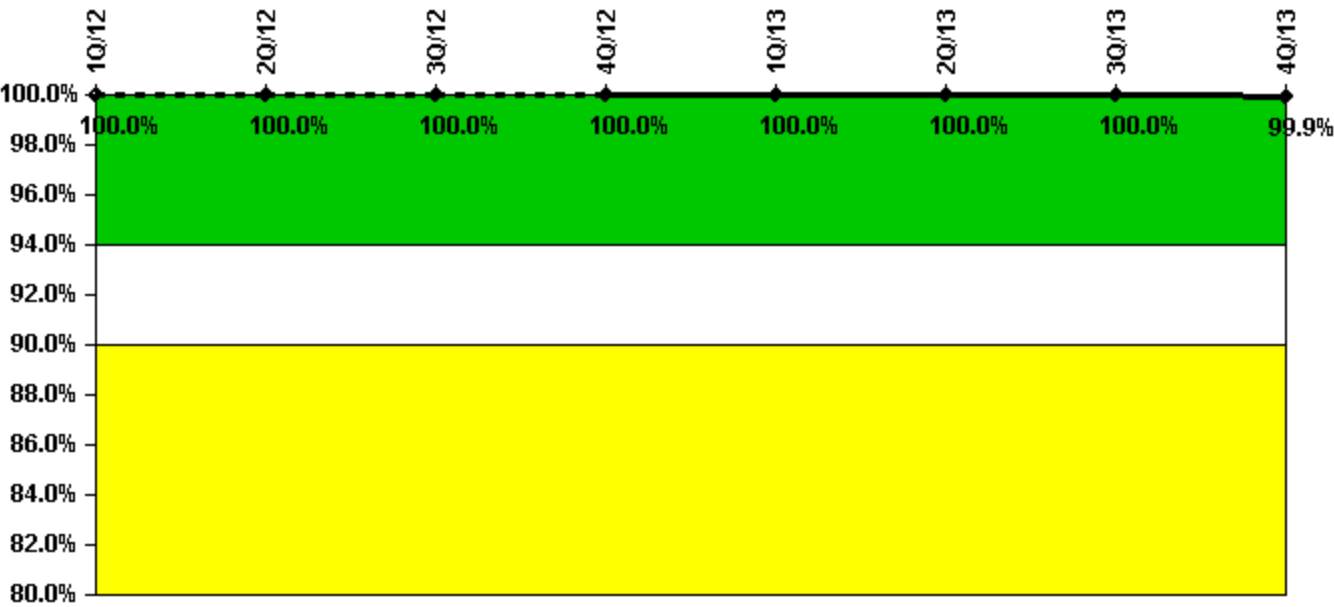
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Participating Key personnel	153.0	150.0	151.0	155.0	165.0	161.0	160.0	159.0
Total Key personnel	153.0	150.0	151.0	155.0	165.0	161.0	160.0	159.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



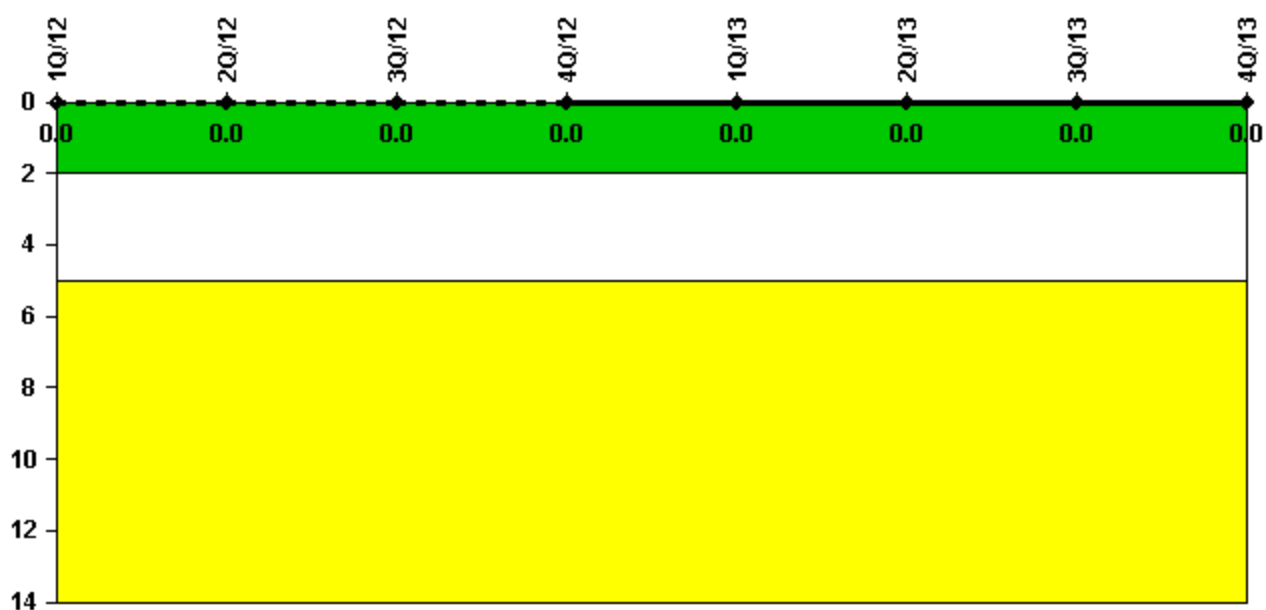
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful siren-tests	476	544	476	559	497	567	497	566
Total sirens-tests	476	544	476	559	497	568	497	568
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



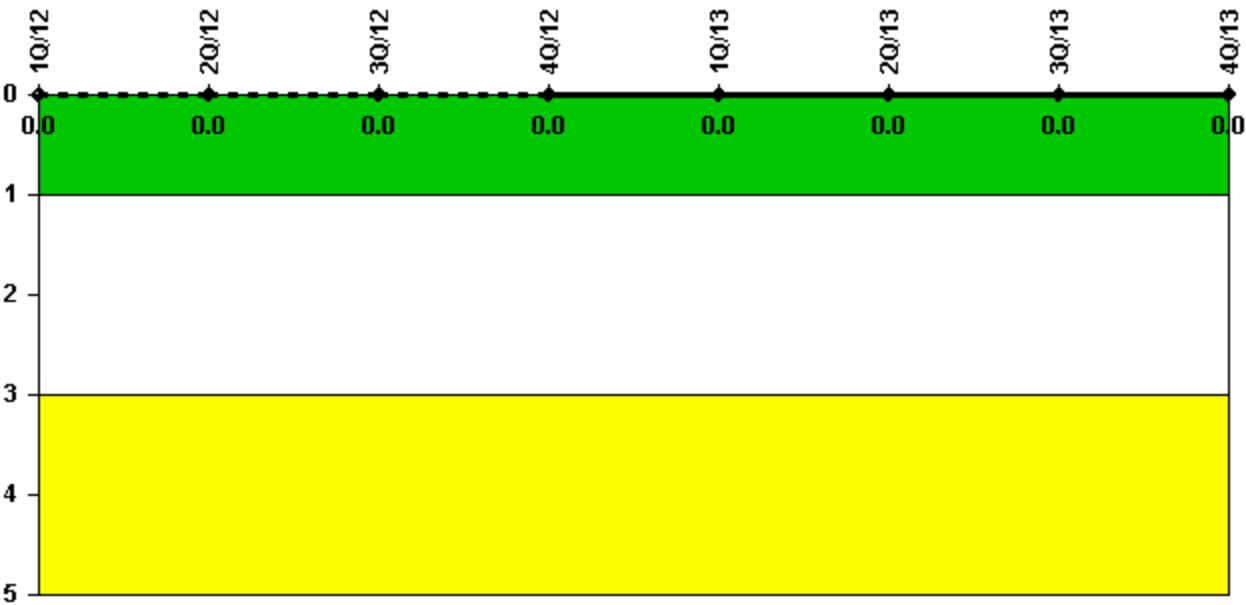
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	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

Surry 1

1Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



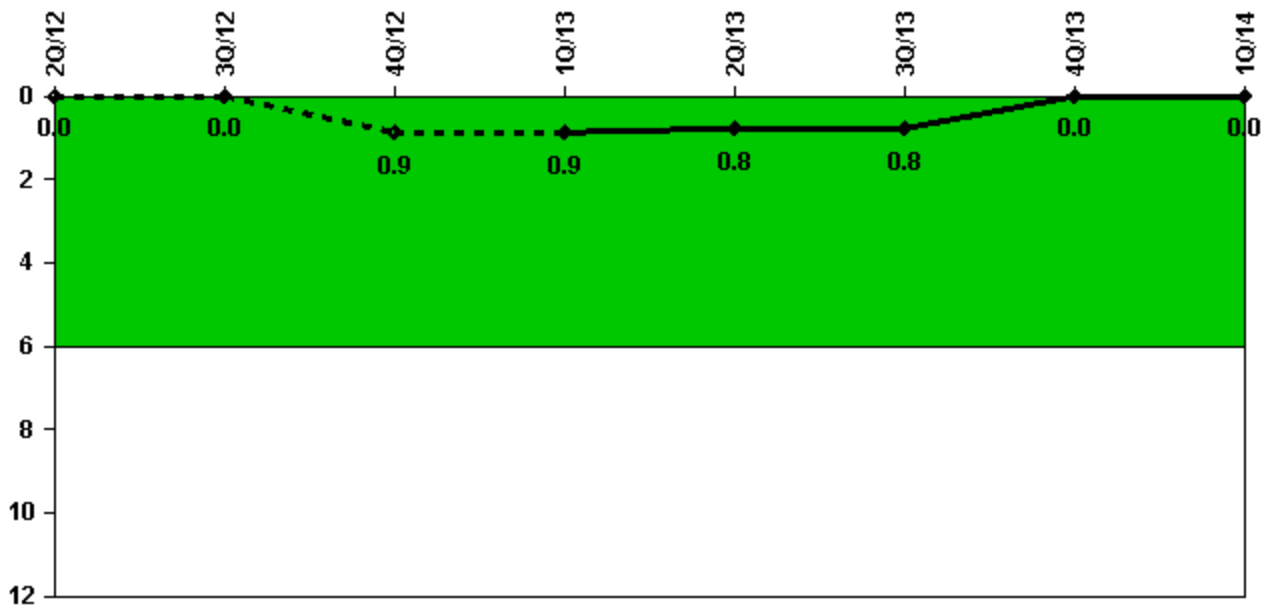
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1456.7	2208.0	2209.0	2159.0	2184.0	2208.0	1450.9	2159.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



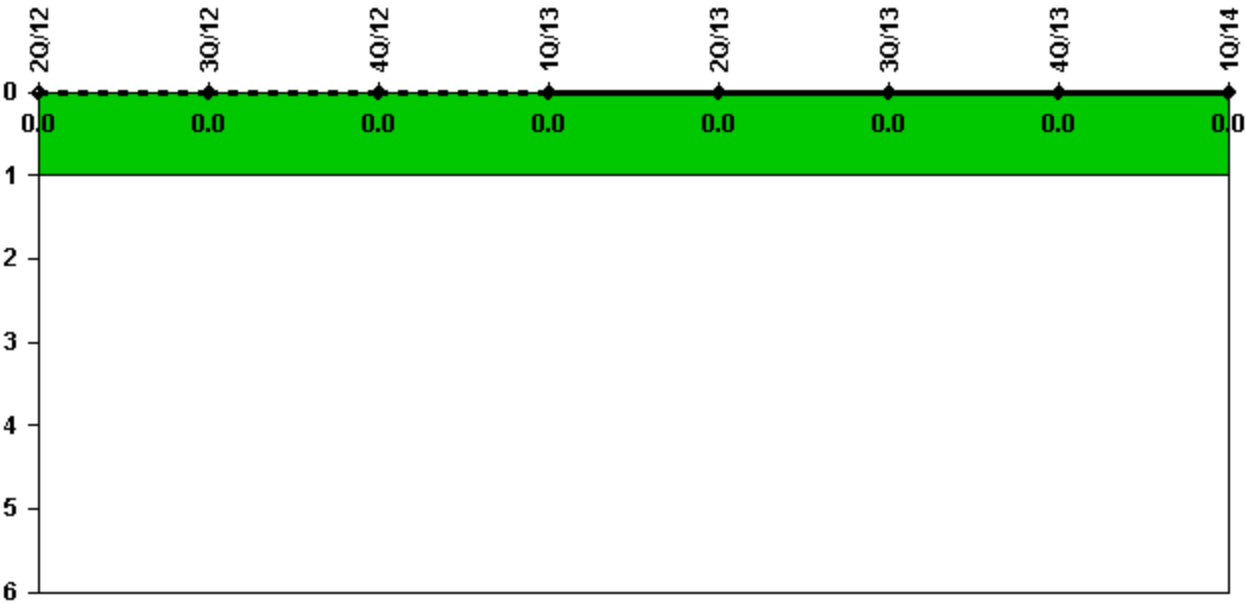
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	1456.7	2208.0	2209.0	2159.0	2184.0	2208.0	1450.9	2159.0
Indicator value	0	0	0.9	0.9	0.8	0.8	0	0

Licensee Comments: none

Unplanned Scrams with Complications



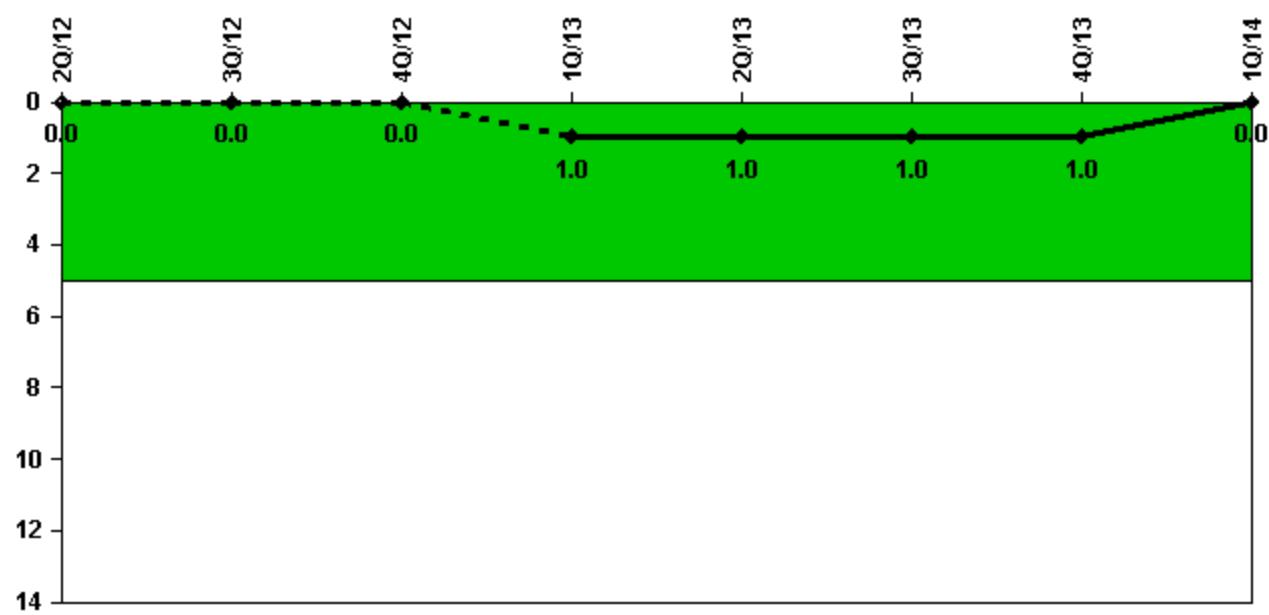
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	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

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

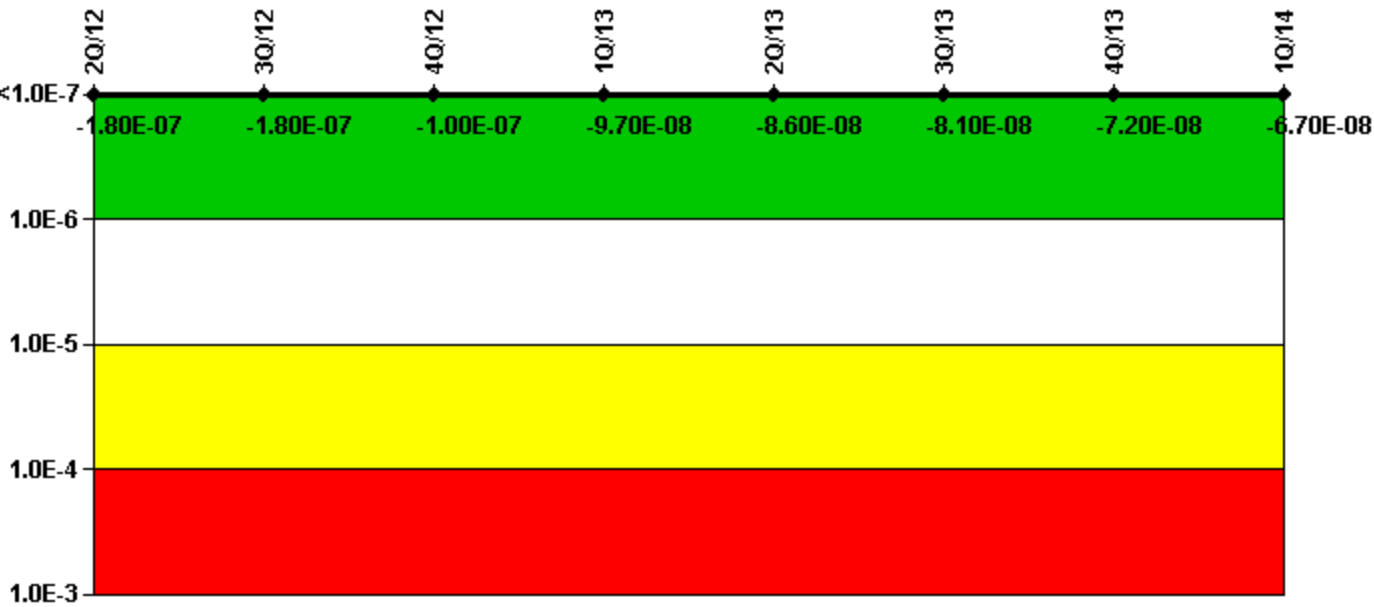
Notes

Safety System Functional Failures (PWR)	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Safety System Functional Failures	0	0	0	1	0	0	0	0
Indicator value	0	0	0	1	1	1	1	0

Licensee Comments:

1Q/13: See Surry LER S1-2013-001-00 dated January 30, 2013.

Mitigating Systems Performance Index, Emergency AC Power System



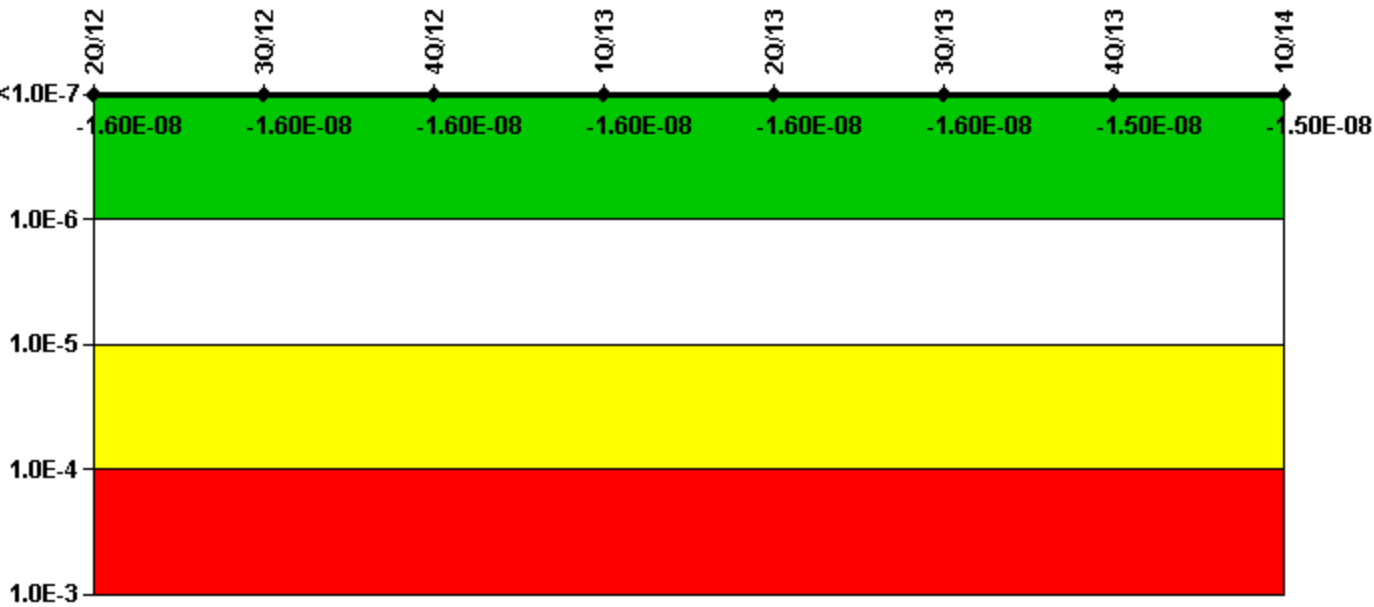
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (ΔCDF)	-1.66E-08	-1.66E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08
URI (ΔCDF)	-1.68E-07	-1.66E-07	-8.66E-08	-8.29E-08	-7.22E-08	-6.70E-08	-5.84E-08	-5.33E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.80E-07	-1.00E-07	-9.70E-08	-8.60E-08	-8.10E-08	-7.20E-08	-6.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



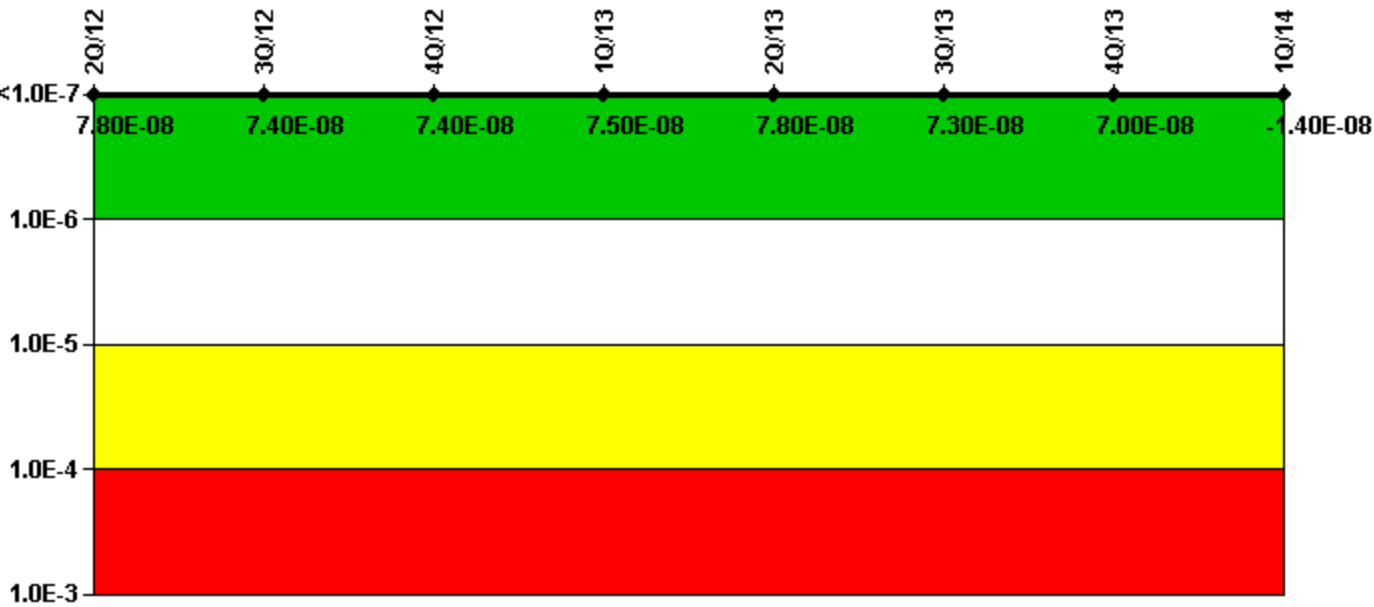
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (ΔCDF)	-7.51E-10	-7.51E-10	-7.35E-10	-7.21E-10	-7.22E-10	-6.78E-10	-6.82E-10	-7.07E-10
URI (ΔCDF)	-1.53E-08	-1.53E-08	-1.52E-08	-1.51E-08	-1.51E-08	-1.49E-08	-1.47E-08	-1.48E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.50E-08	-1.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



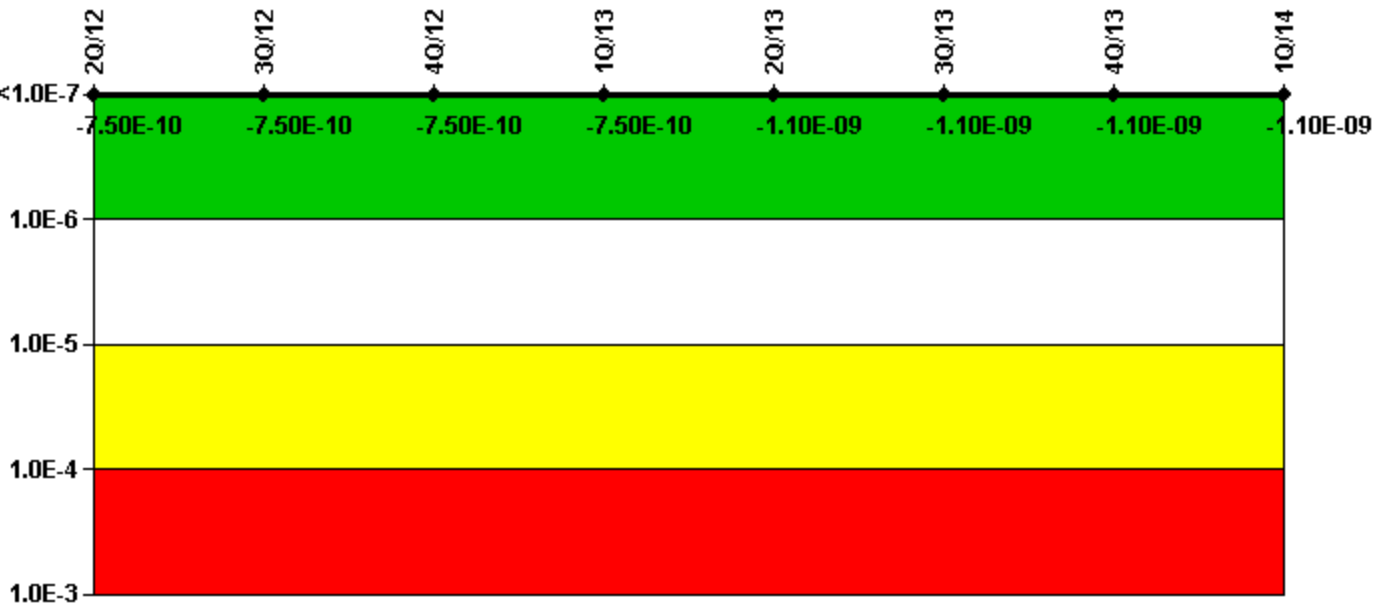
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (ΔCDF)	8.75E-09	4.80E-09	4.52E-09	4.93E-09	4.35E-09	1.69E-09	2.32E-09	1.66E-09
URI (ΔCDF)	6.96E-08	6.96E-08	6.96E-08	6.96E-08	7.32E-08	7.14E-08	6.79E-08	-1.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.80E-08	7.40E-08	7.40E-08	7.50E-08	7.80E-08	7.30E-08	7.00E-08	-1.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



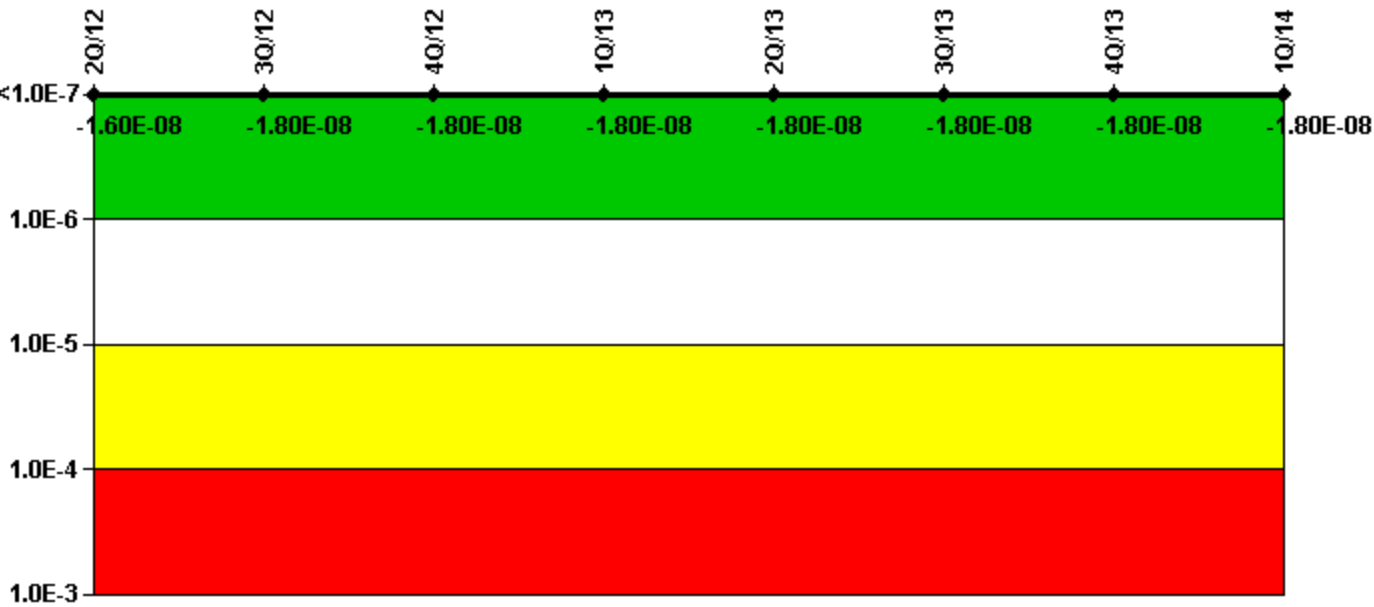
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (ΔCDF)	1.85E-10	1.85E-10	1.85E-10	1.85E-10	-2.01E-10	-2.28E-10	-2.29E-10	-2.43E-10
URI (ΔCDF)	-9.31E-10	-9.31E-10	-9.31E-10	-9.31E-10	-9.02E-10	-8.83E-10	-8.90E-10	-8.90E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.50E-10	-7.50E-10	-7.50E-10	-7.50E-10	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



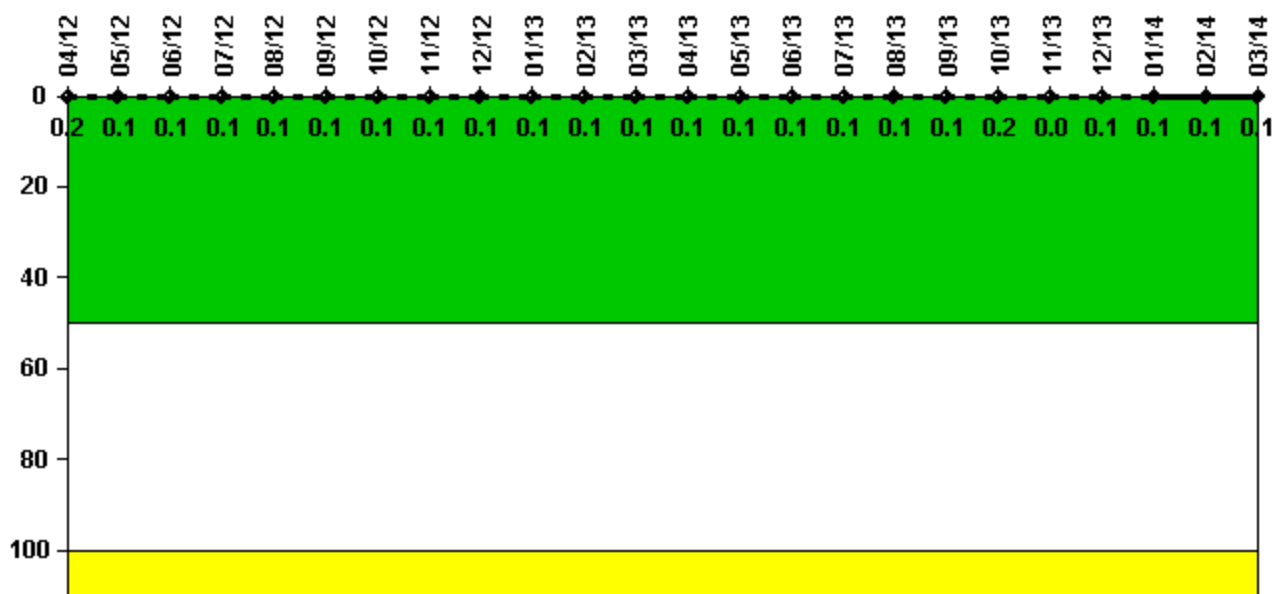
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (ΔCDF)	4.03E-09	2.40E-09	2.16E-09	2.31E-09	2.48E-09	1.78E-09	1.77E-09	1.45E-09
URI (ΔCDF)	-2.02E-08	-2.01E-08	-2.00E-08	-2.01E-08	-2.01E-08	-2.01E-08	-1.99E-08	-1.98E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08

Licensee Comments: none

Reactor Coolant System Activity



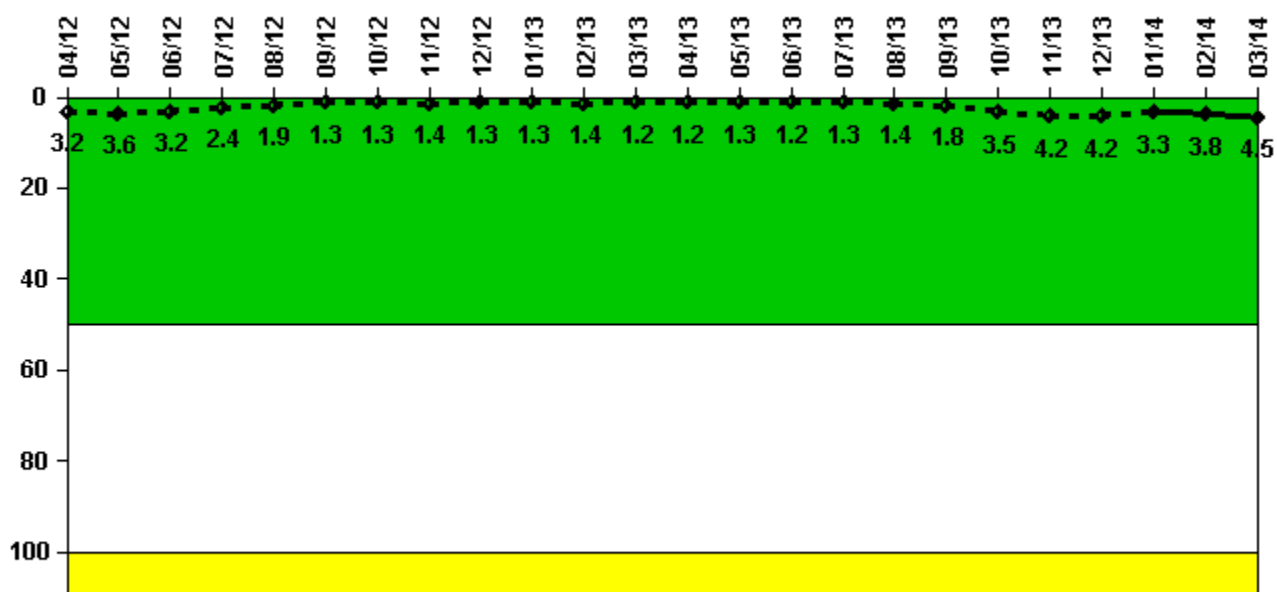
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum activity	0.001840	0.001210	0.000598	0.000737	0.000712	0.000984	0.000867	0.000887	0.001030	0.000979	0.001220	0.001160
Technical specification limit	1.0	1.0	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	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum activity	0.001090	0.001310	0.001280	0.001120	0.001320	0.001490	0.001580	0.000475	0.000601	0.000632	0.000631	0.000729
Technical specification limit	1.0	1.0	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	0.2	0	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

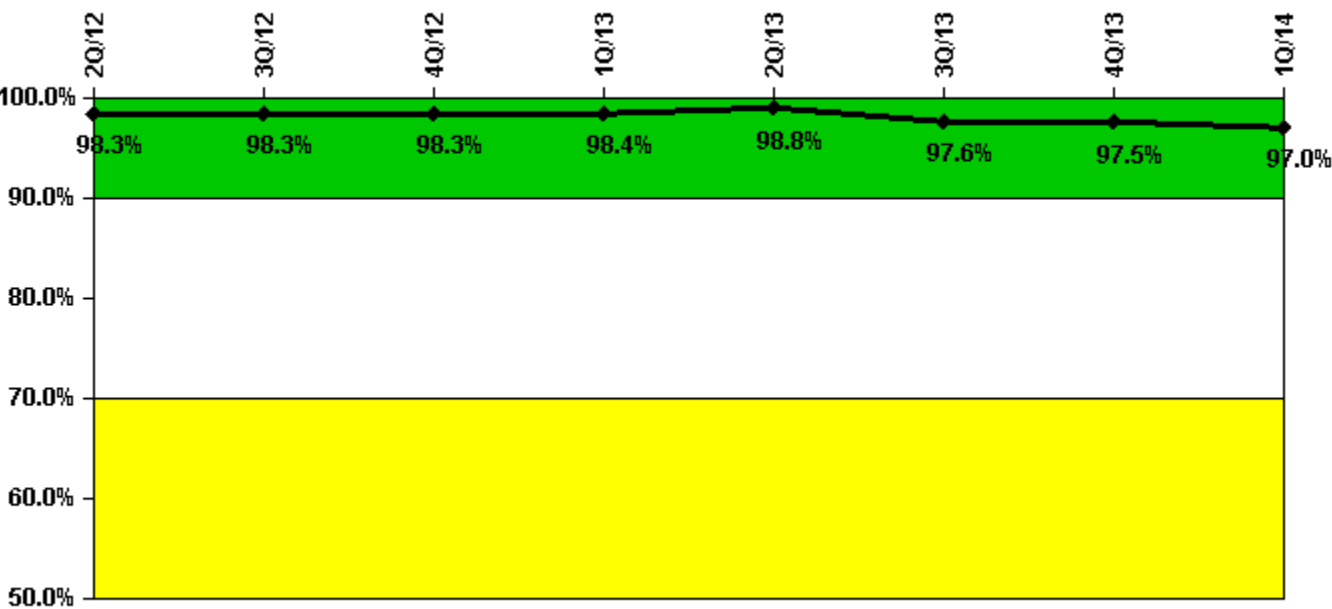
Notes

Reactor Coolant System Leakage	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	0.320	0.360	0.320	0.240	0.190	0.130	0.130	0.140	0.130	0.130	0.140	0.120
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.2	3.6	3.2	2.4	1.9	1.3	1.3	1.4	1.3	1.3	1.4	1.2
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	0.120	0.130	0.120	0.130	0.140	0.180	0.350	0.420	0.420	0.330	0.380	0.450
Technical specification limit	10.0	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	1.3	1.2	1.3	1.4	1.8	3.5	4.2	4.2	3.3	3.8	4.5

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September and November of 2012. The data has been corrected. This correction does not change the color of any performance indicators.

Drill/Exercise Performance



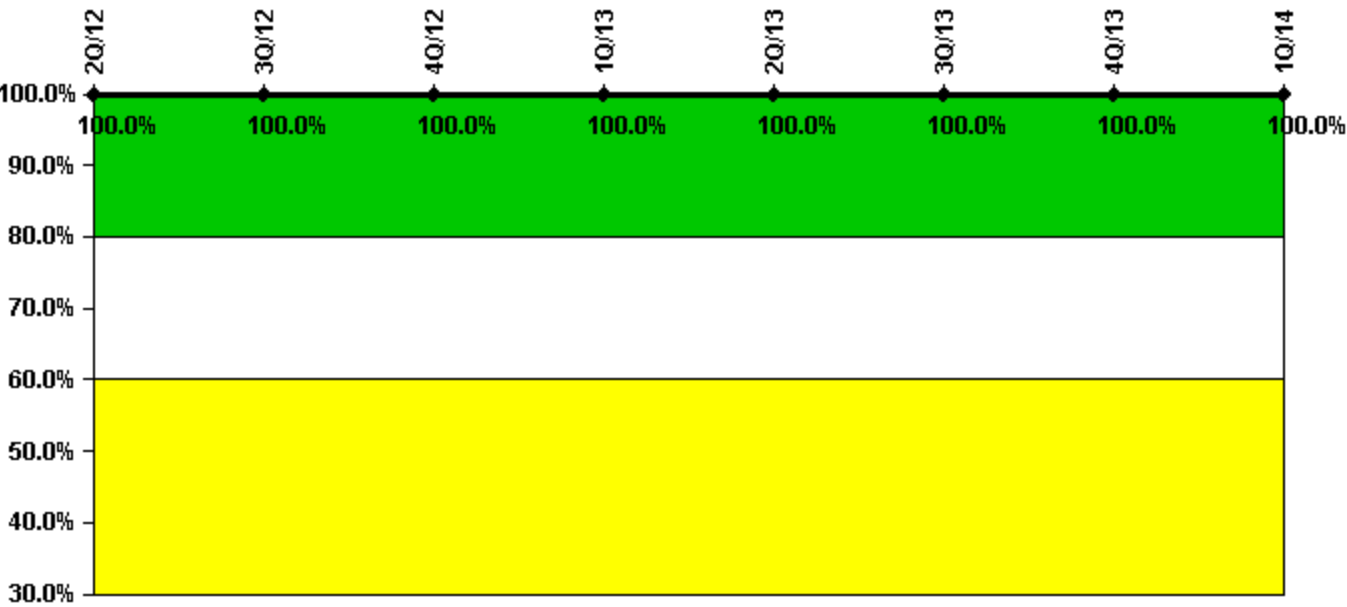
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful opportunities	24.0	32.0	24.0	48.0	22.0	28.0	14.0	37.0
Total opportunities	26.0	32.0	24.0	49.0	22.0	31.0	14.0	38.0
Indicator value	98.3%	98.3%	98.3%	98.4%	98.8%	97.6%	97.5%	97.0%

Licensee Comments: none

ERO Drill Participation



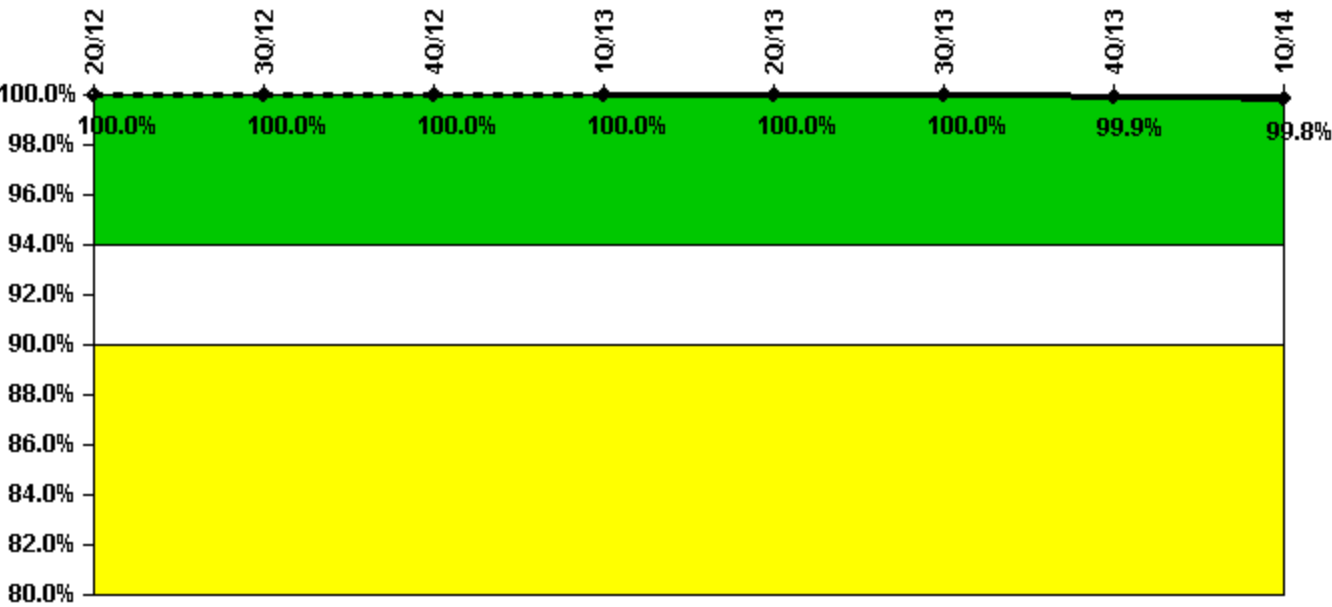
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Participating Key personnel	150.0	151.0	155.0	165.0	161.0	160.0	159.0	158.0
Total Key personnel	150.0	151.0	155.0	165.0	161.0	160.0	159.0	158.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



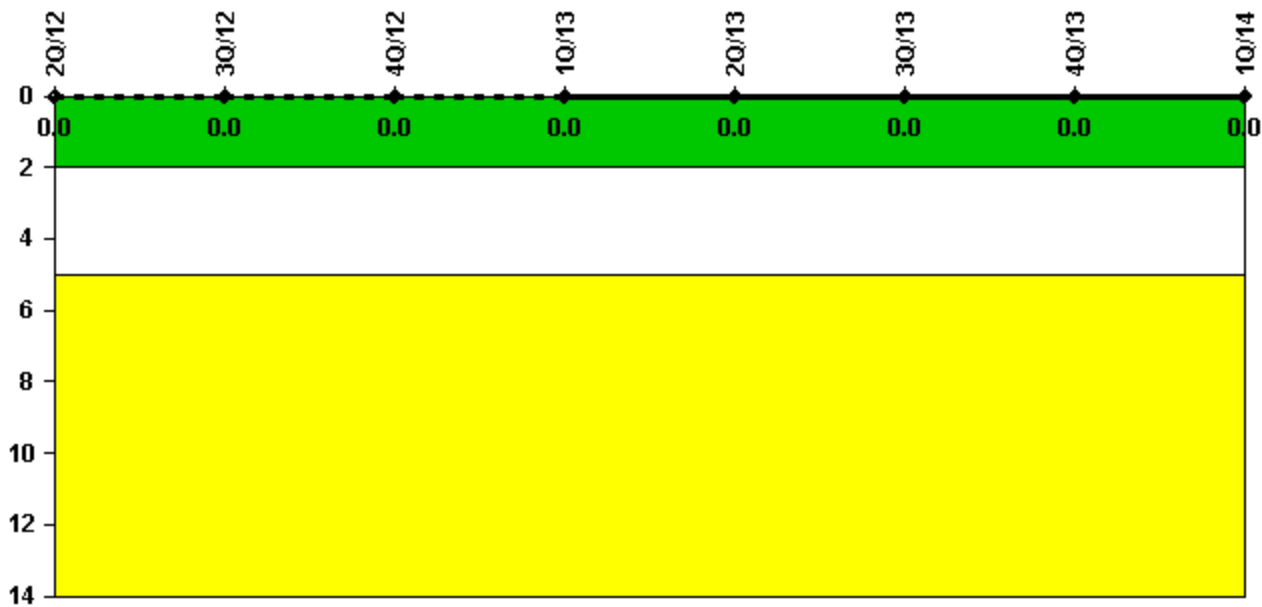
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful siren-tests	544	476	559	497	567	497	566	496
Total sirens-tests	544	476	559	497	568	497	568	497
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.9%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



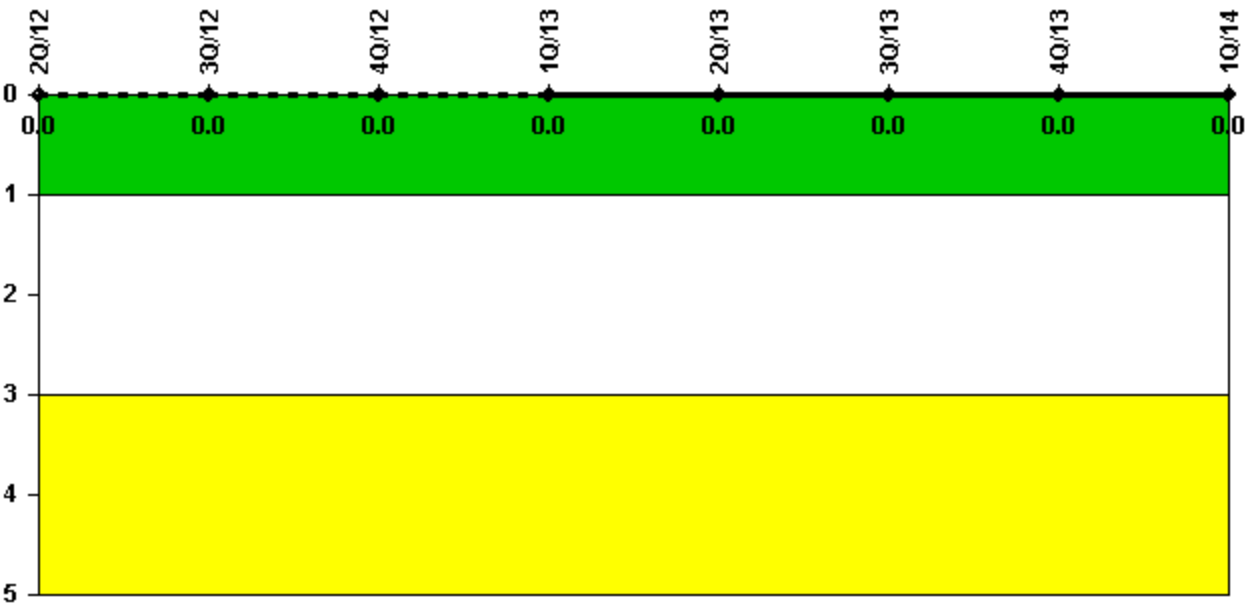
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/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

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	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

Surry 1

2Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



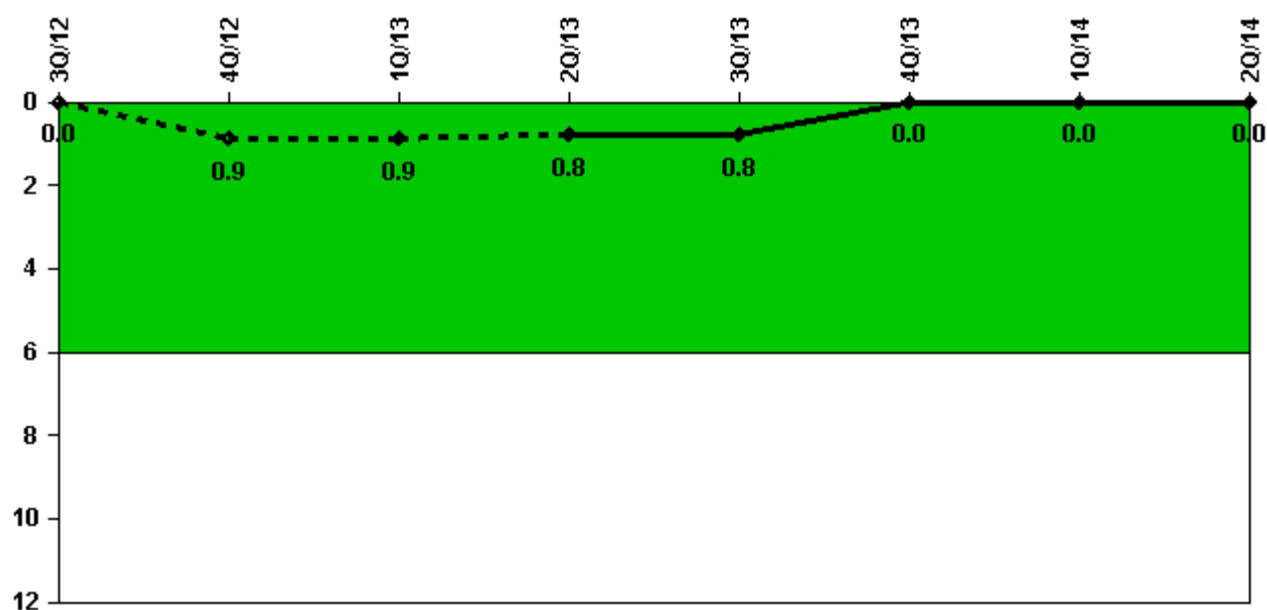
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	2208.0	1450.9	2159.0	2184.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



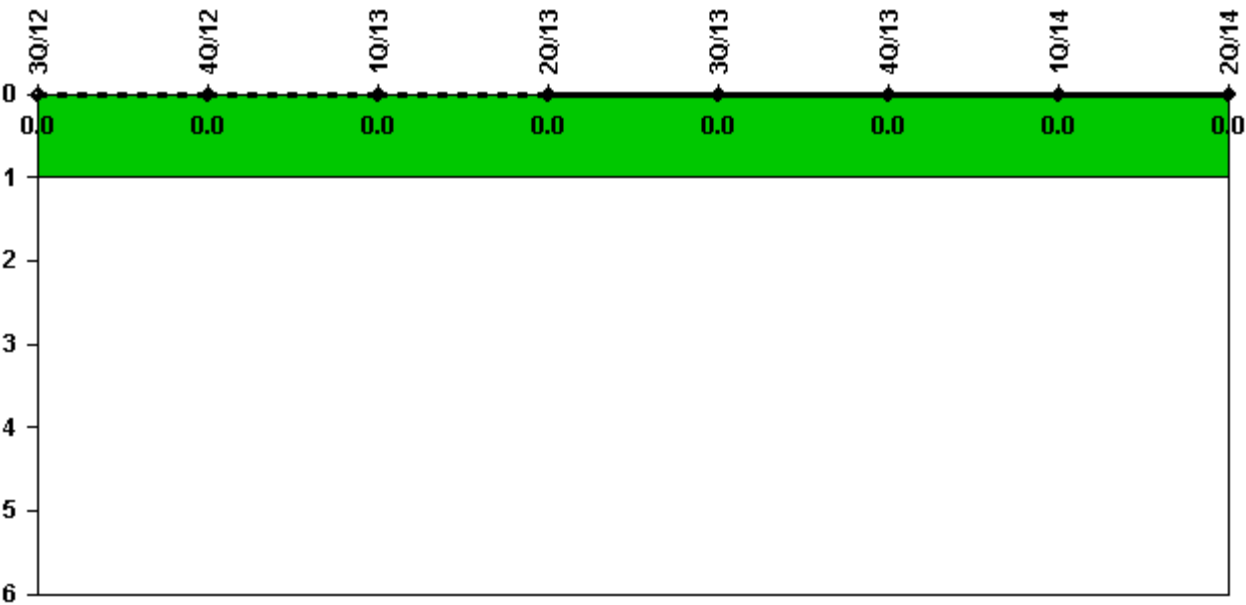
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	2208.0	1450.9	2159.0	2184.0
Indicator value	0	0.9	0.9	0.8	0.8	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



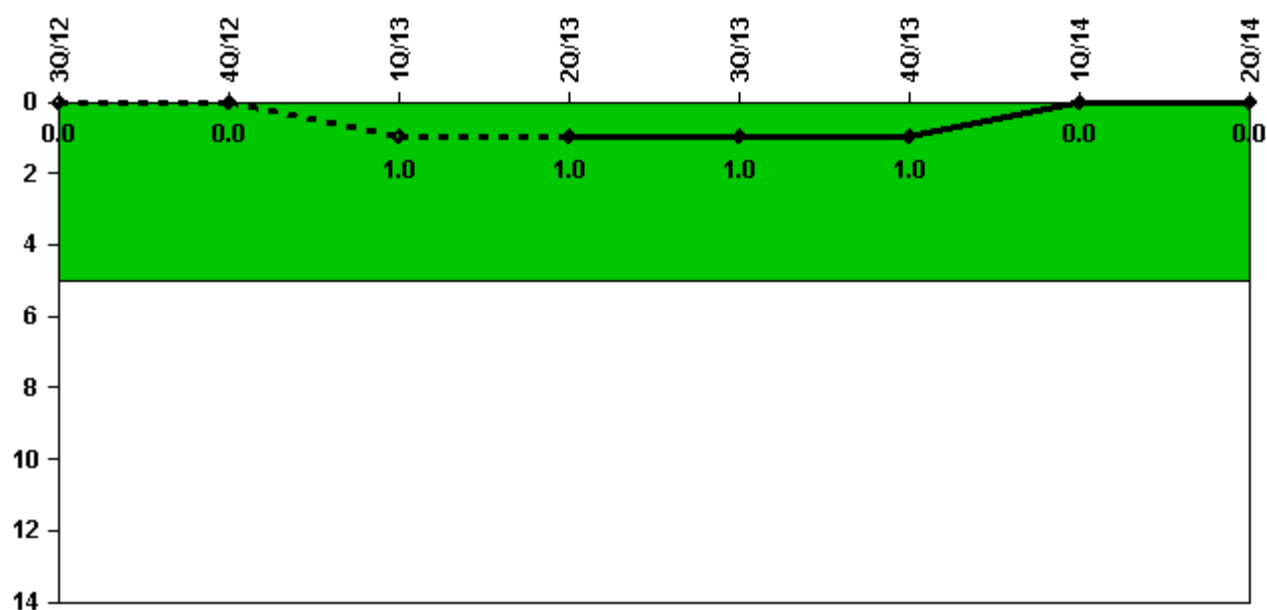
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

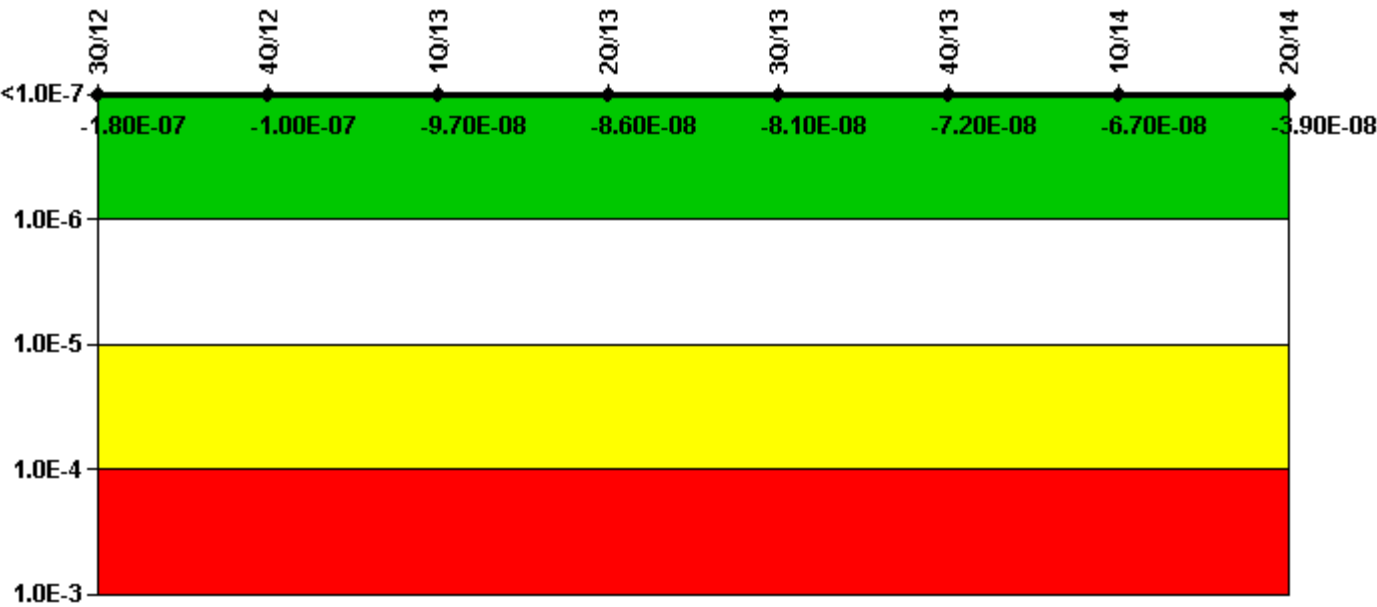
Notes

Safety System Functional Failures (PWR)	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Safety System Functional Failures	0	0	1	0	0	0	0	0
Indicator value	0	0	1	1	1	1	0	0

Licensee Comments:

1Q/13: See Surry LER S1-2013-001-00 dated January 30, 2013.

Mitigating Systems Performance Index, Emergency AC Power System

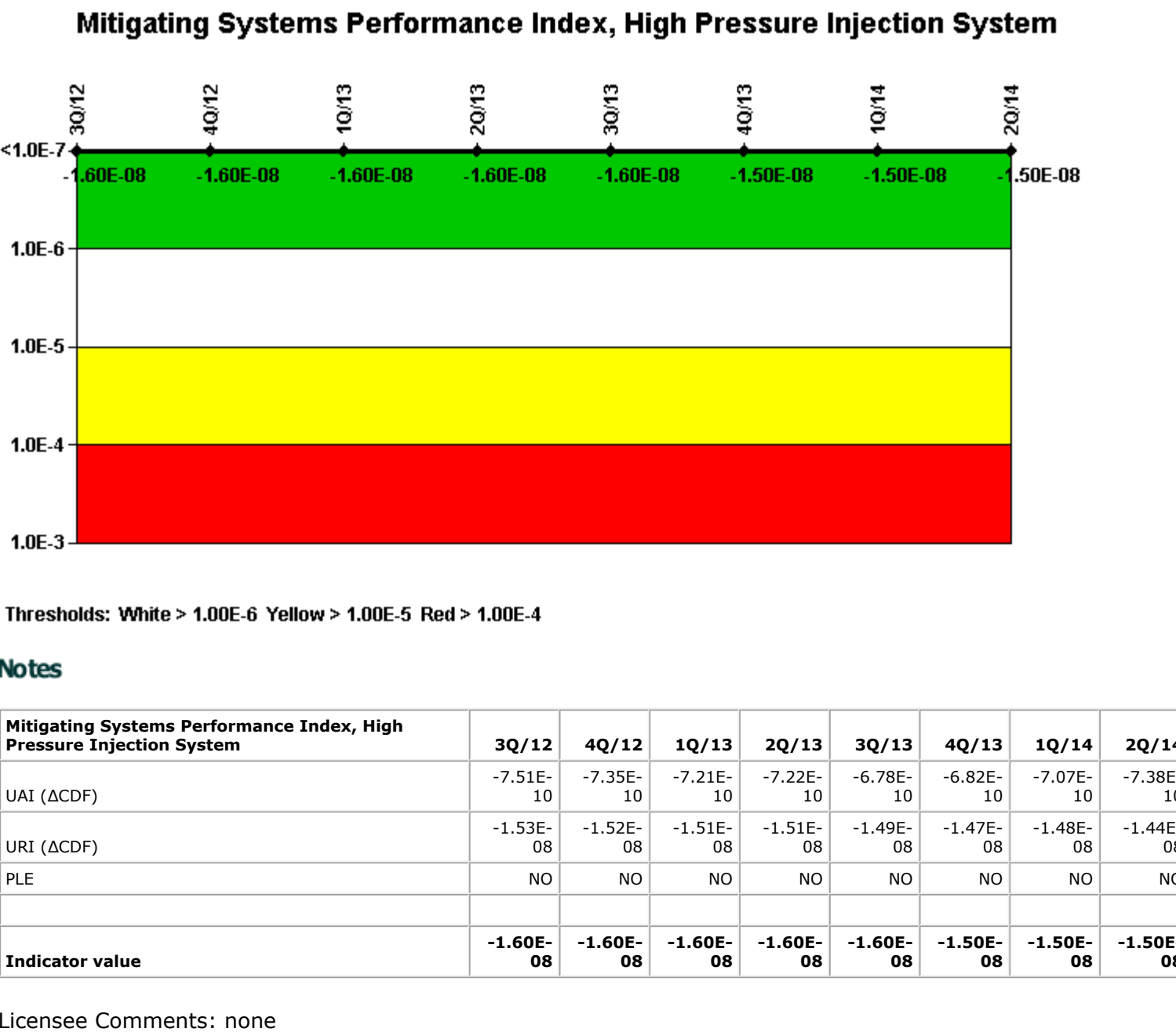


Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

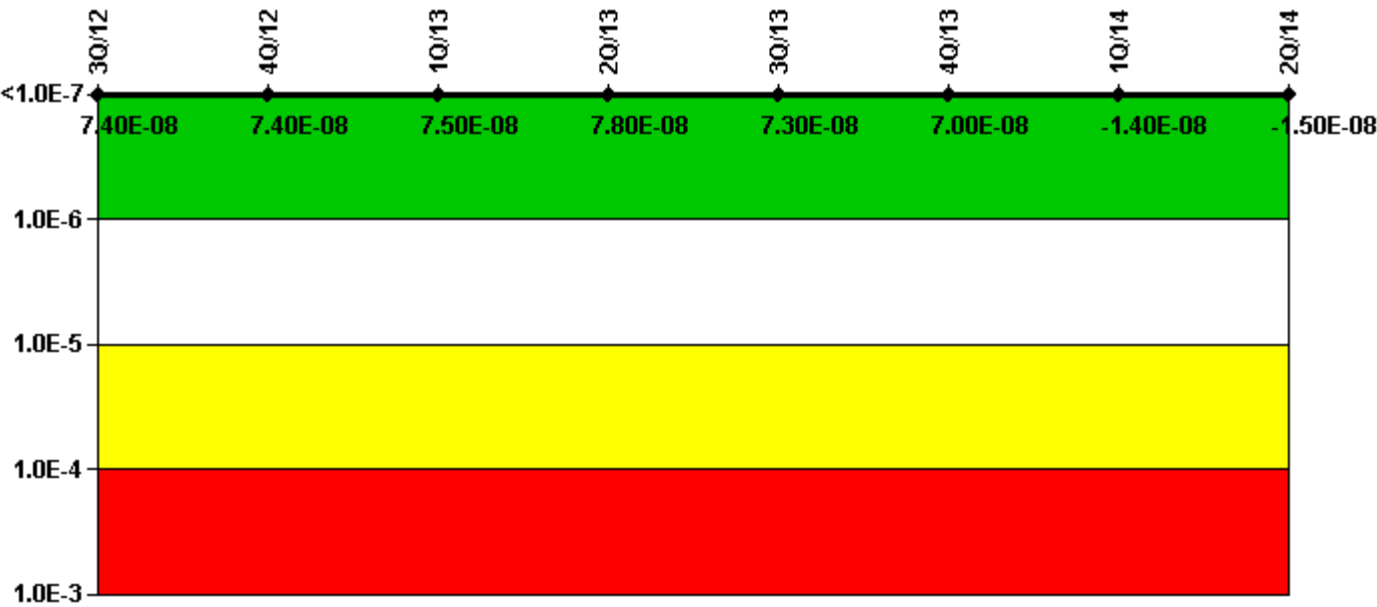
Notes

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)	-1.66E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08
URI (ΔCDF)	-1.66E-07	-8.66E-08	-8.29E-08	-7.22E-08	-6.70E-08	-5.84E-08	-5.33E-08	-2.55E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.00E-07	-9.70E-08	-8.60E-08	-8.10E-08	-7.20E-08	-6.70E-08	-3.90E-08

Licensee Comments: none



Mitigating Systems Performance Index, Heat Removal System

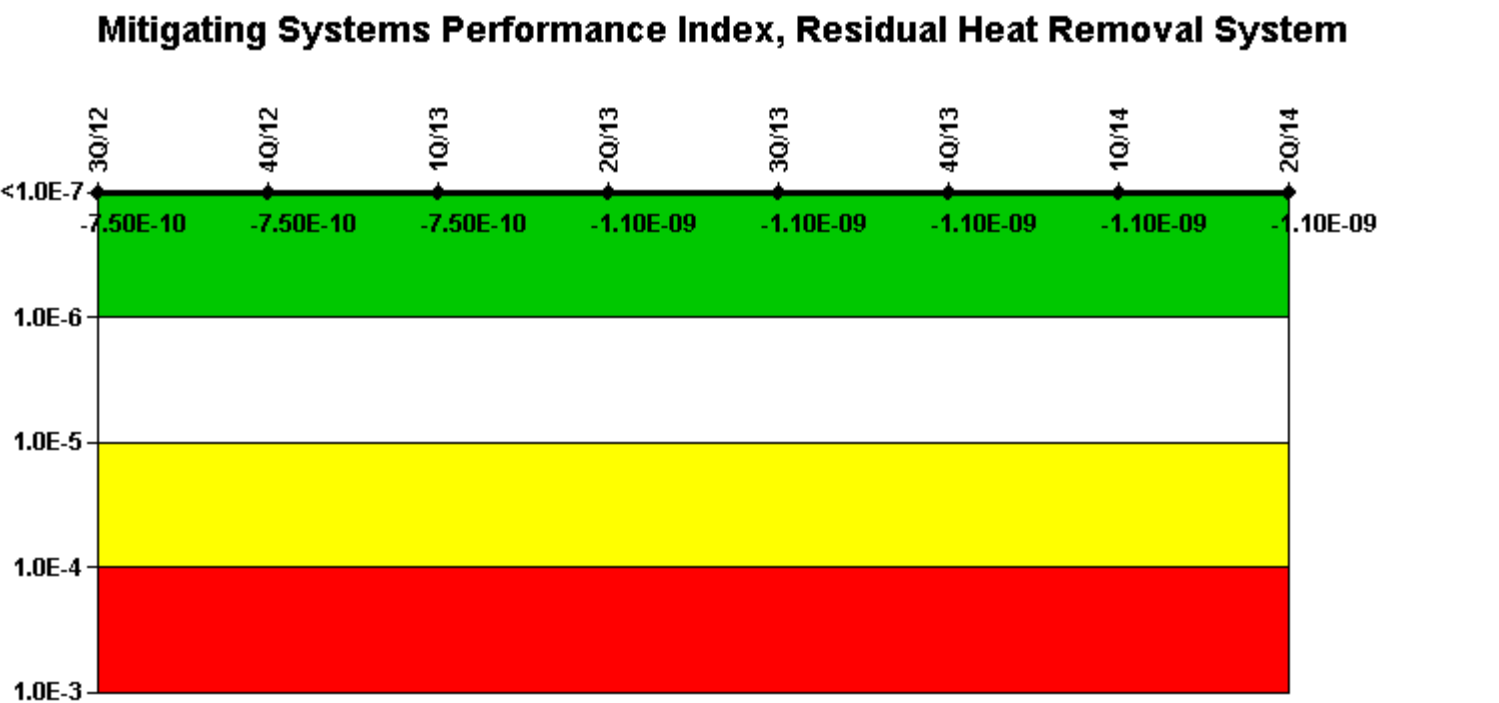


Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	4.80E-09	4.52E-09	4.93E-09	4.35E-09	1.69E-09	2.32E-09	1.66E-09	1.25E-09
URI (ΔCDF)	6.96E-08	6.96E-08	6.96E-08	7.32E-08	7.14E-08	6.79E-08	-1.59E-08	-1.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.40E-08	7.40E-08	7.50E-08	7.80E-08	7.30E-08	7.00E-08	-1.40E-08	-1.50E-08

Licensee Comments: none



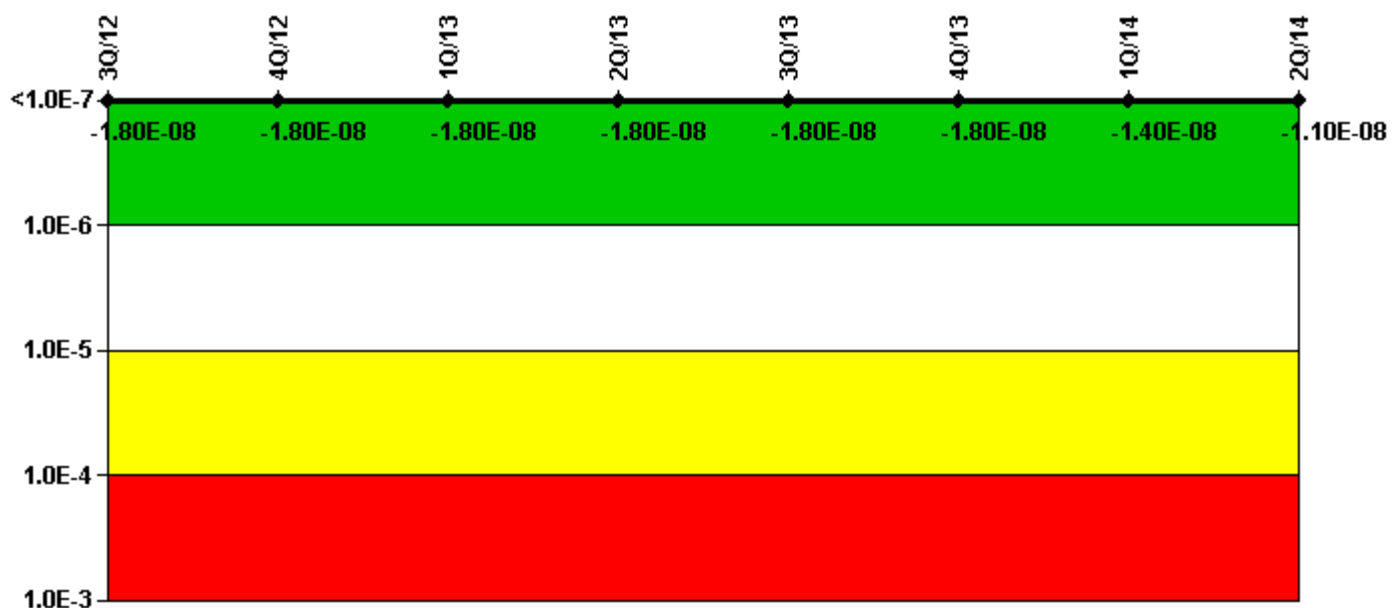
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.85E-10	1.85E-10	1.85E-10	-2.01E-10	-2.28E-10	-2.29E-10	-2.43E-10	-2.43E-10
URI (ΔCDF)	-9.31E-10	-9.31E-10	-9.31E-10	-9.02E-10	-8.83E-10	-8.90E-10	-8.90E-10	-8.90E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.50E-10	-7.50E-10	-7.50E-10	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (Δ CDF)	2.40E-09	2.16E-09	2.31E-09	2.48E-09	1.78E-09	1.77E-09	1.45E-09	3.44E-09
URI (Δ CDF)	-2.01E-08	-2.00E-08	-2.01E-08	-2.01E-08	-2.01E-08	-1.99E-08	-1.53E-08	-1.49E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.40E-08	-1.10E-08

Licensee Comments:

2Q/14: Failure No. 311011 on March 29 was added which changed the first quarter indicator with no change in color. See LER report No. 50-280/2014-001-00.

Reactor Coolant System Activity



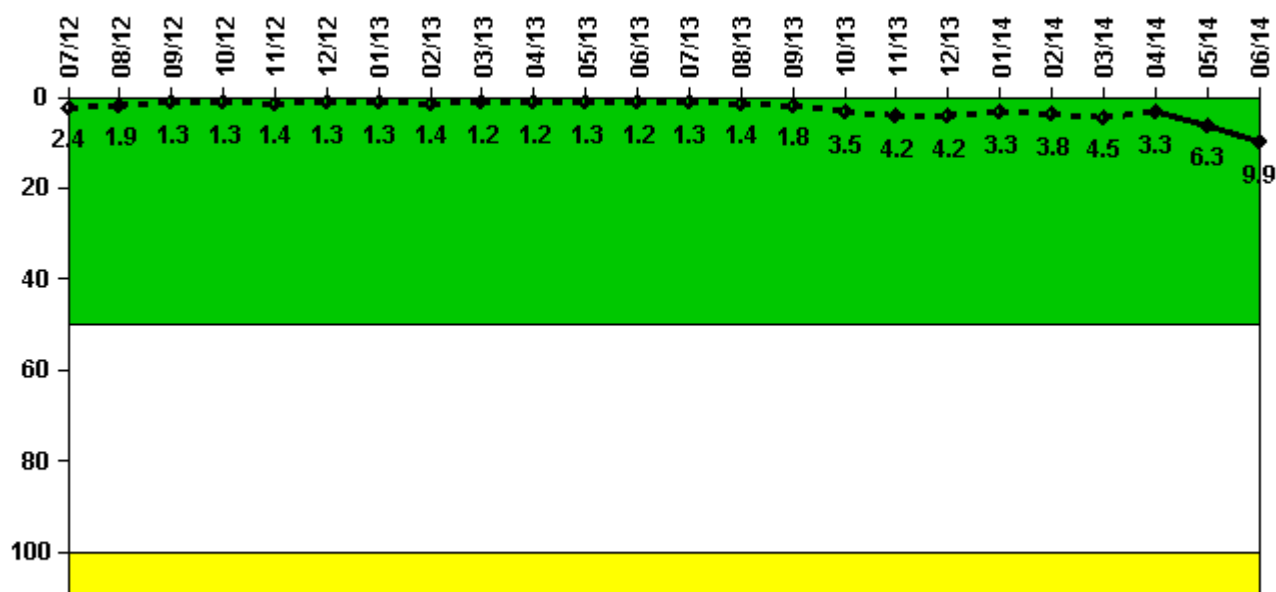
Thresholds: White > 50.0 Yellow > 100.0

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	0.000737	0.000712	0.000984	0.000867	0.000887	0.001030	0.000979	0.001220	0.001160	0.001090	0.001310	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	0.1	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	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum activity	0.001120	0.001320	0.001490	0.001580	0.000475	0.000601	0.000632	0.000631	0.000729	0.000749	0.000817	0.000839
Technical specification limit	1.0	1.0	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

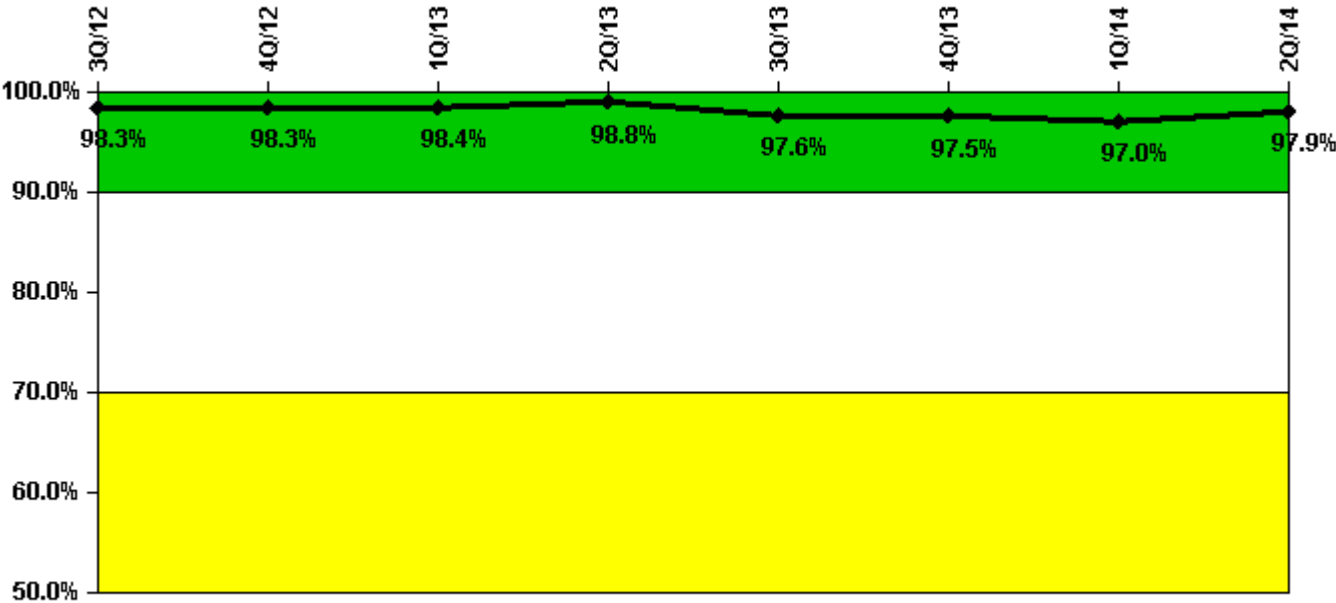
Notes

Reactor Coolant System Leakage	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum leakage	0.240	0.190	0.130	0.130	0.140	0.130	0.130	0.140	0.120	0.120	0.130	0.120
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.4	1.9	1.3	1.3	1.4	1.3	1.3	1.4	1.2	1.2	1.3	1.2
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	0.130	0.140	0.180	0.350	0.420	0.420	0.330	0.380	0.450	0.330	0.630	0.990
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.4	1.8	3.5	4.2	4.2	3.3	3.8	4.5	3.3	6.3	9.9

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September and November of 2012. The data has been corrected. This correction does not change the color of any performance indicators.

Drill/Exercise Performance



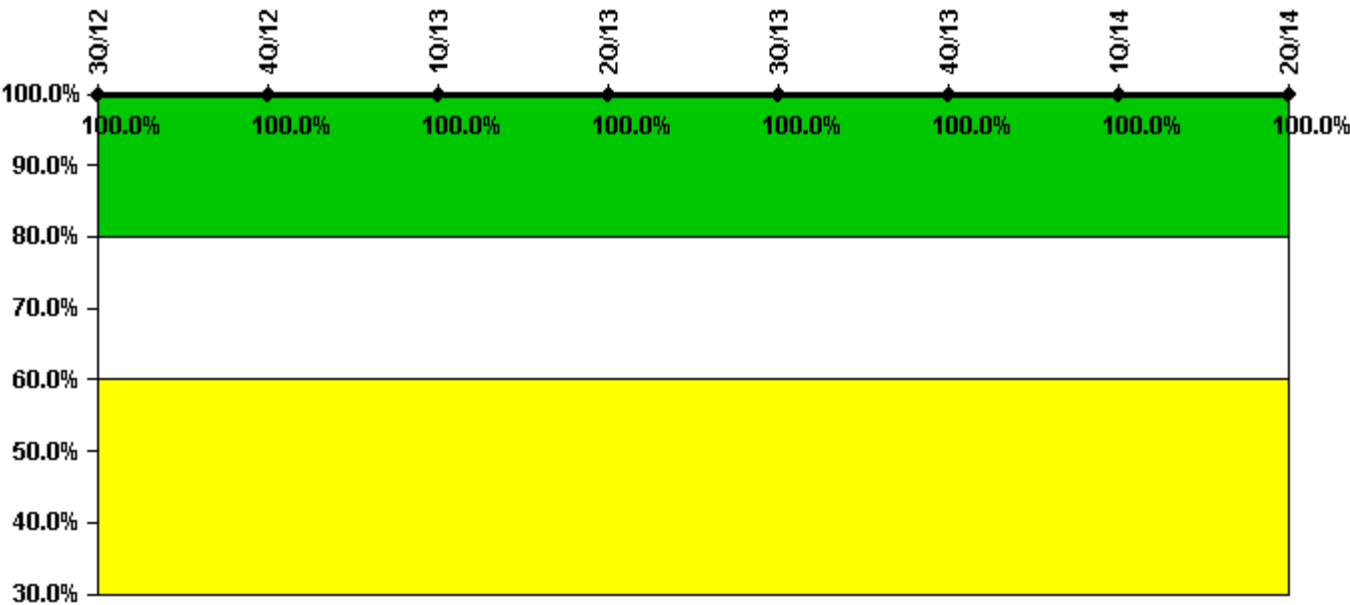
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful opportunities	32.0	24.0	48.0	22.0	28.0	14.0	37.0	28.0
Total opportunities	32.0	24.0	49.0	22.0	31.0	14.0	38.0	28.0
Indicator value	98.3%	98.3%	98.4%	98.8%	97.6%	97.5%	97.0%	97.9%

Licensee Comments: none

ERO Drill Participation



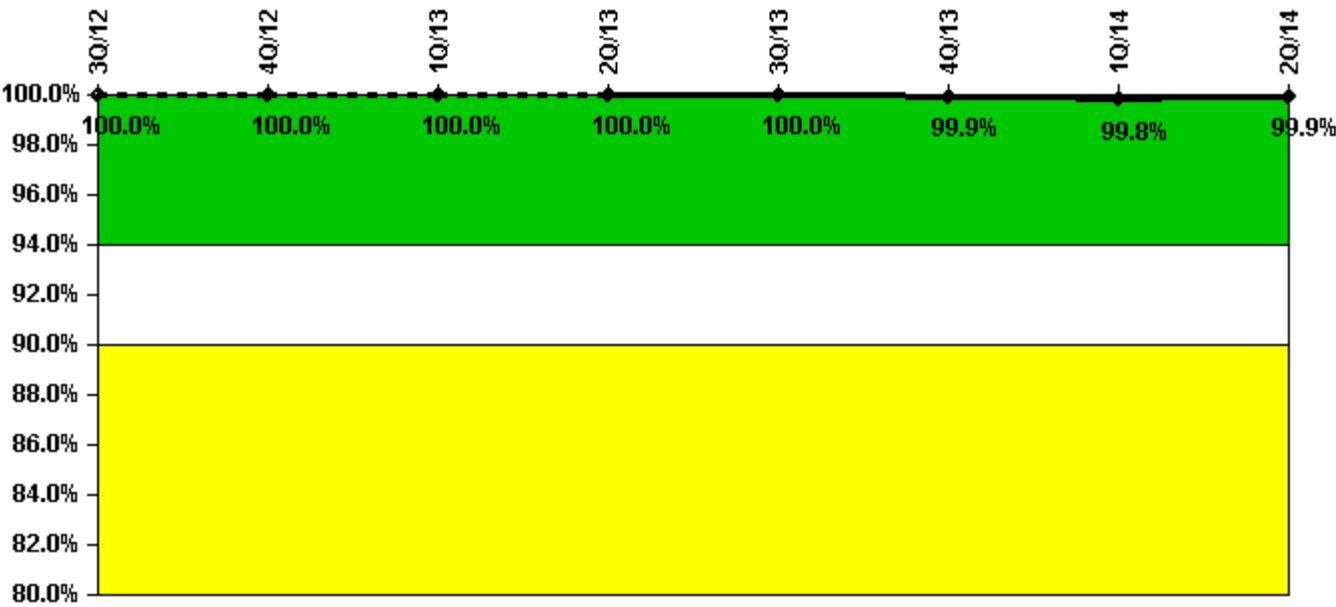
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Participating Key personnel	151.0	155.0	165.0	161.0	160.0	159.0	158.0	154.0
Total Key personnel	151.0	155.0	165.0	161.0	160.0	159.0	158.0	154.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



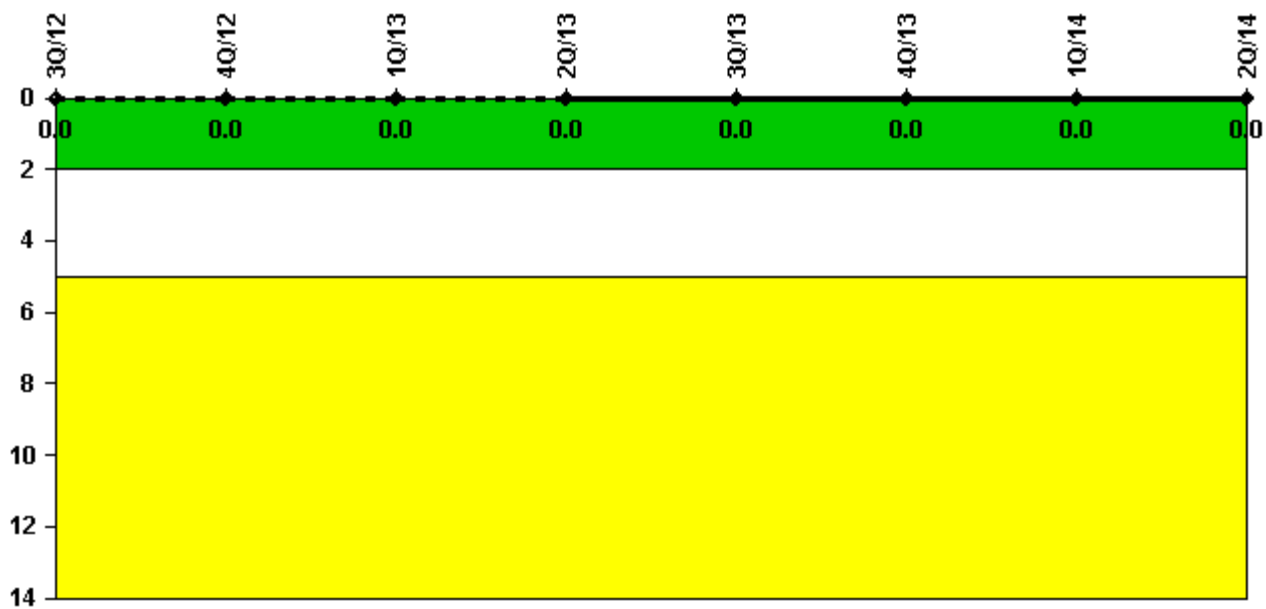
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful siren-tests	476	559	497	567	497	566	496	568
Total sirens-tests	476	559	497	568	497	568	497	568
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	99.9%	99.8%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness

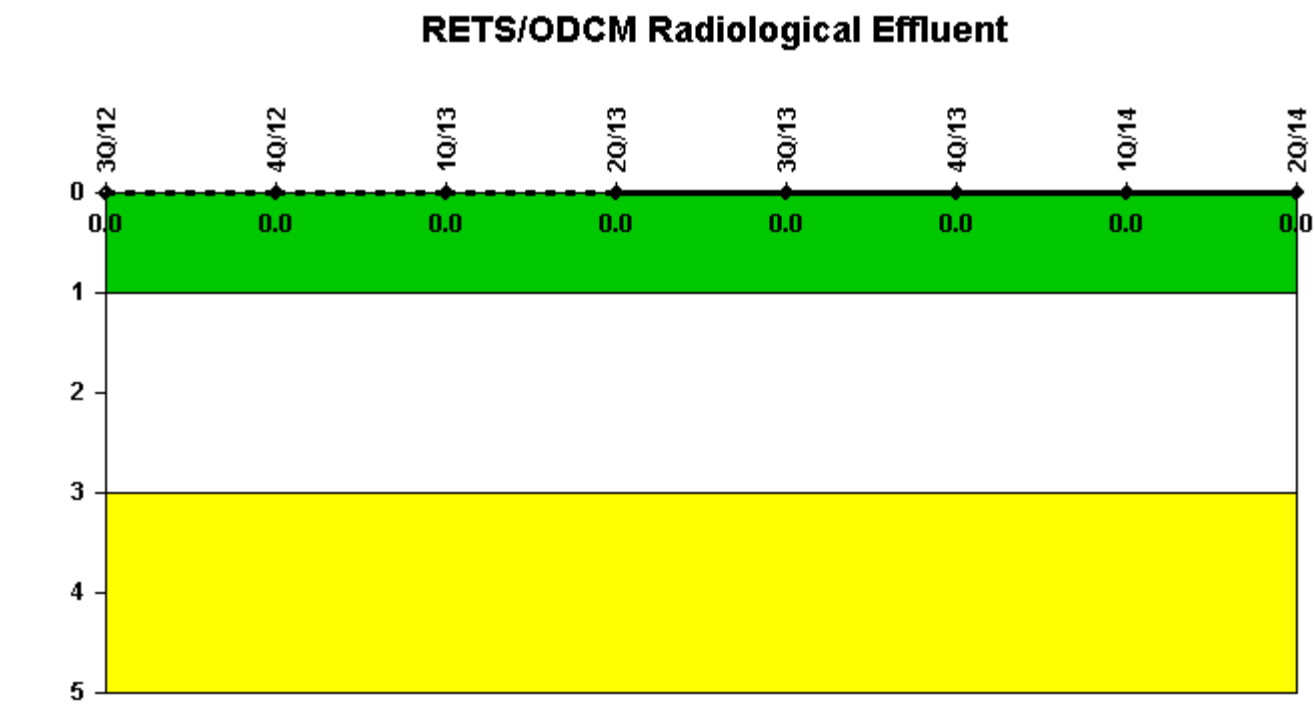


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	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

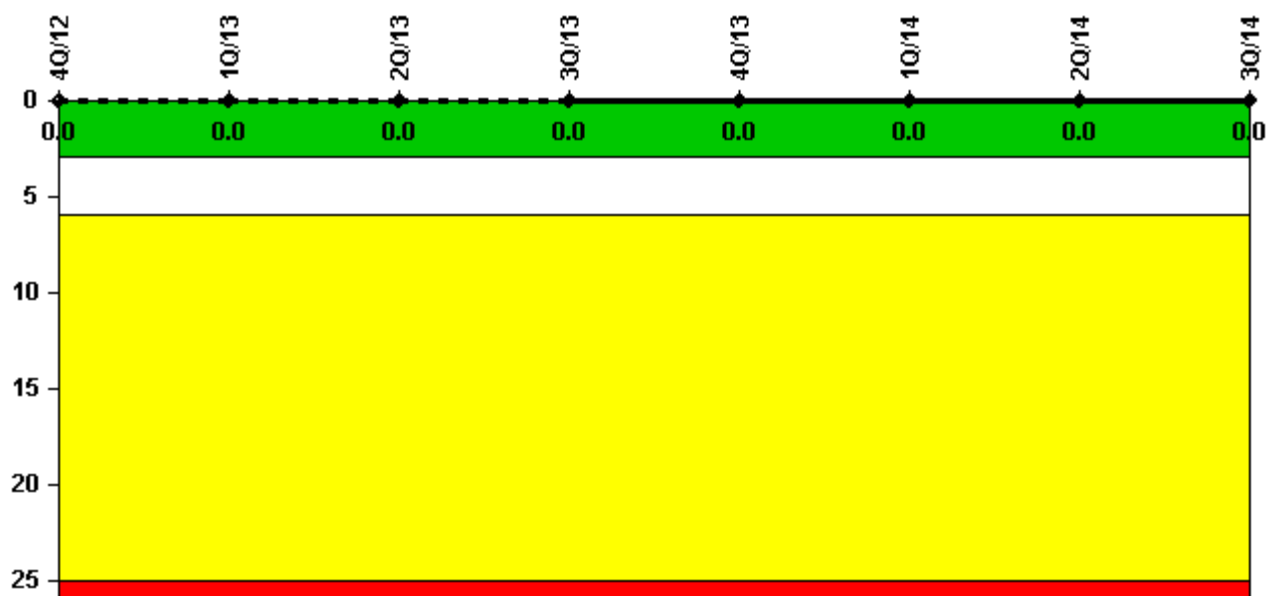
Surry 1

3Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



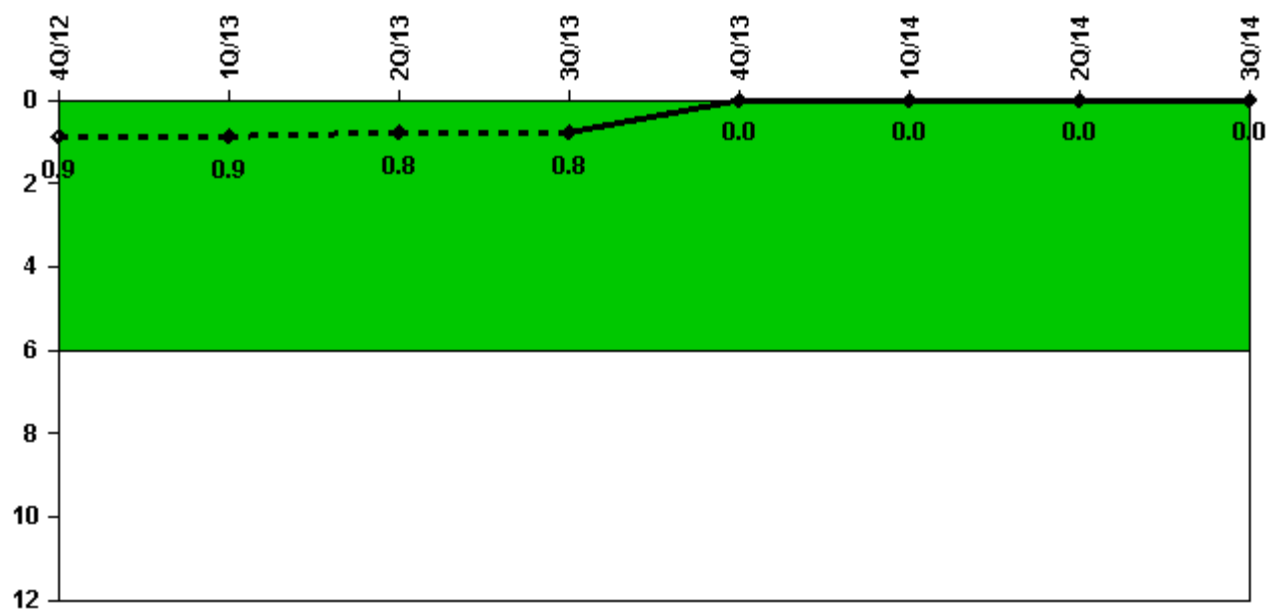
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	1450.9	2159.0	2184.0	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



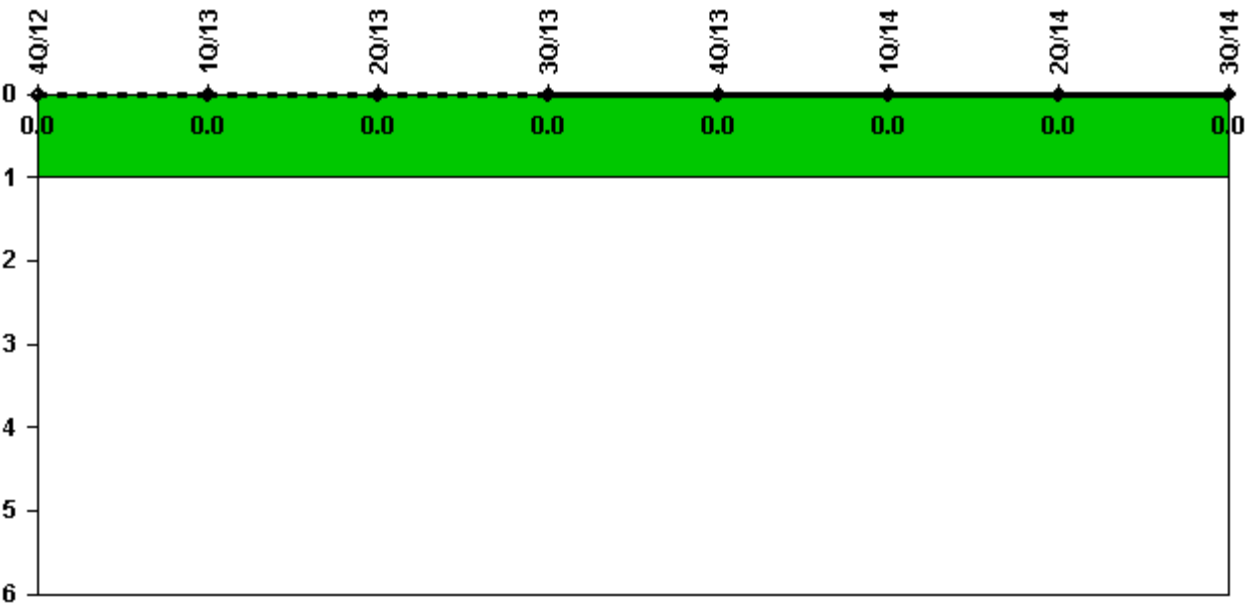
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	1450.9	2159.0	2184.0	2208.0
Indicator value	0.9	0.9	0.8	0.8	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



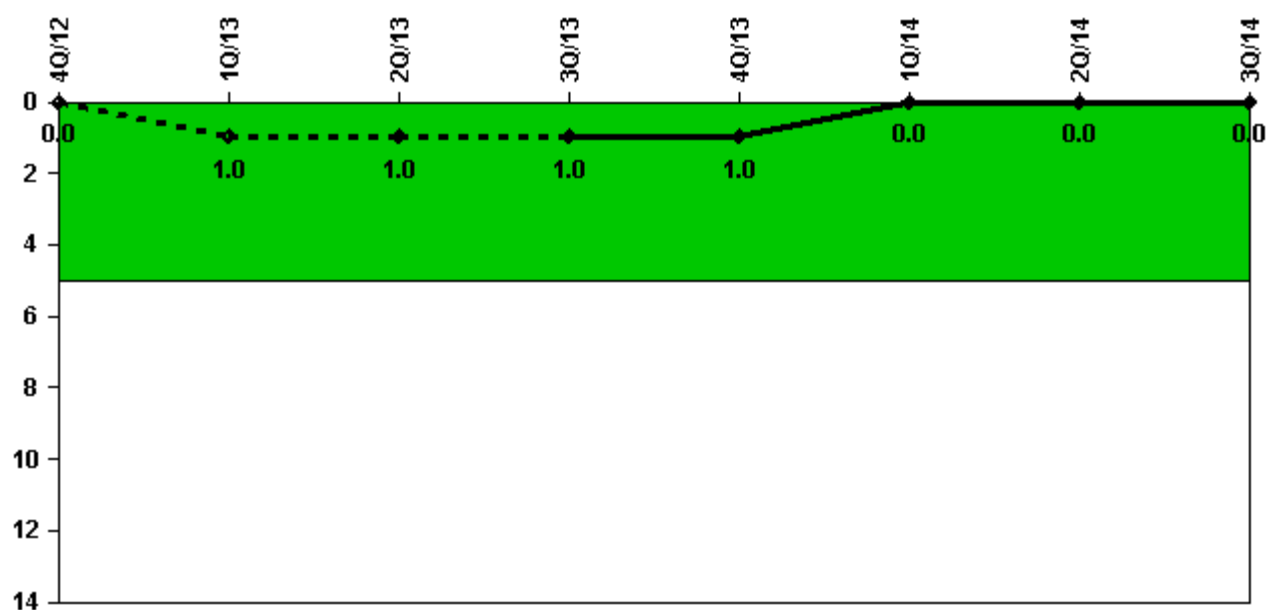
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

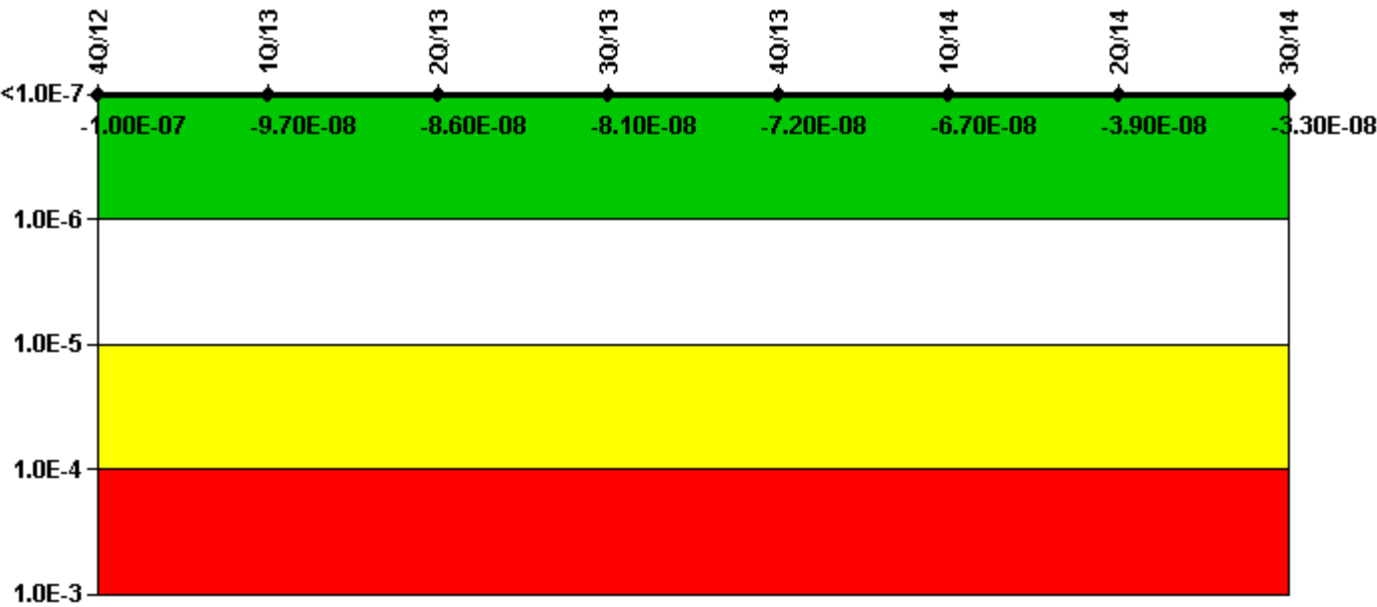
Notes

Safety System Functional Failures (PWR)	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Safety System Functional Failures	0	1	0	0	0	0	0	0
Indicator value	0	1	1	1	1	0	0	0

Licensee Comments:

1Q/13: See Surry LER S1-2013-001-00 dated January 30, 2013.

Mitigating Systems Performance Index, Emergency AC Power System



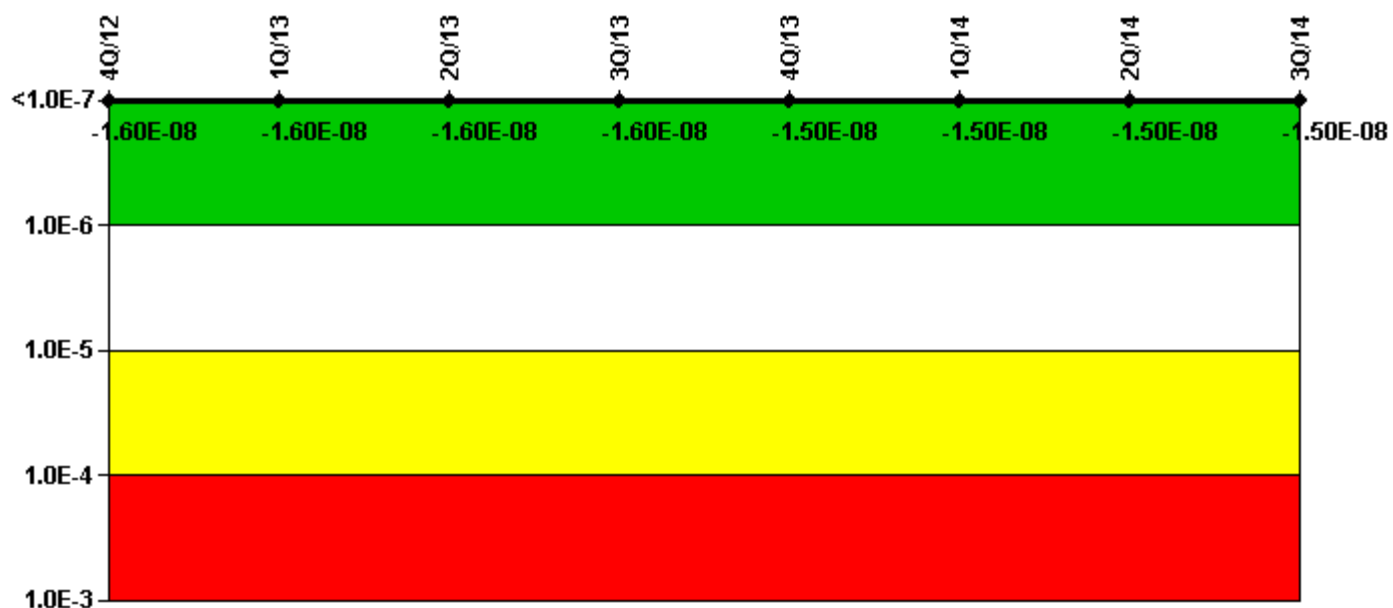
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08
URI (ΔCDF)	-8.66E-08	-8.29E-08	-7.22E-08	-6.70E-08	-5.84E-08	-5.33E-08	-2.55E-08	-1.96E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.00E-07	-9.70E-08	-8.60E-08	-8.10E-08	-7.20E-08	-6.70E-08	-3.90E-08	-3.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



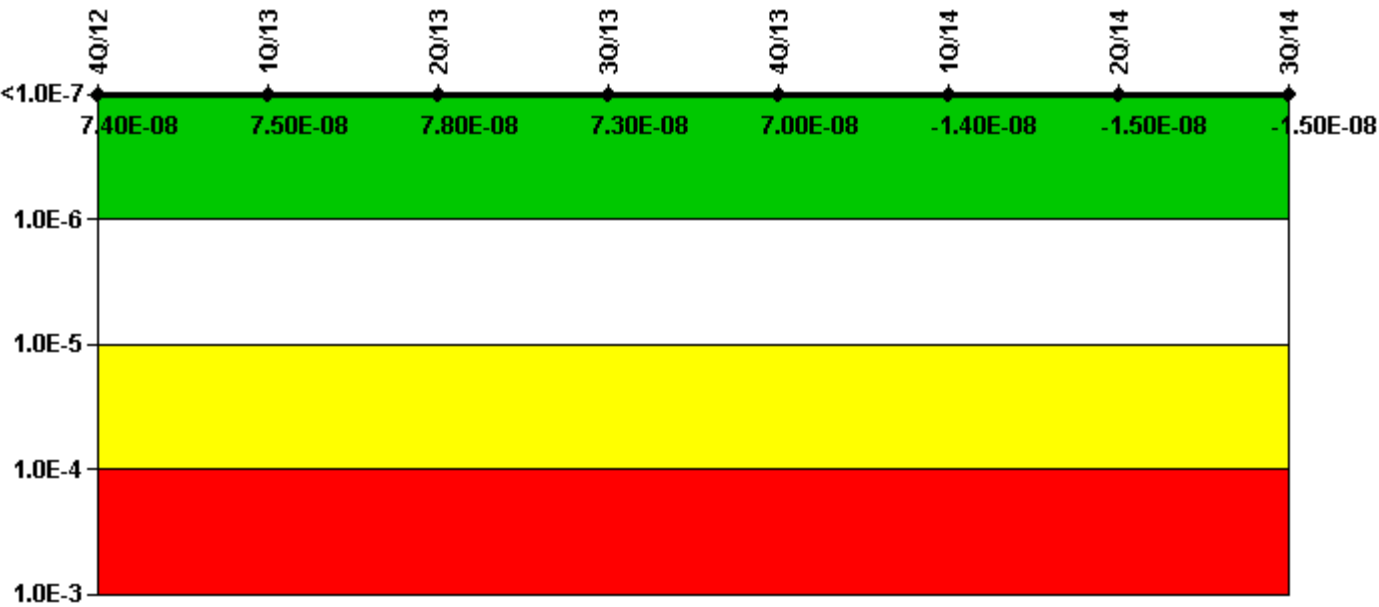
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	-7.35E-10	-7.21E-10	-7.22E-10	-6.78E-10	-6.82E-10	-7.07E-10	-7.38E-10	-7.24E-10
URI (Δ CDF)	-1.52E-08	-1.51E-08	-1.51E-08	-1.49E-08	-1.47E-08	-1.48E-08	-1.44E-08	-1.46E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



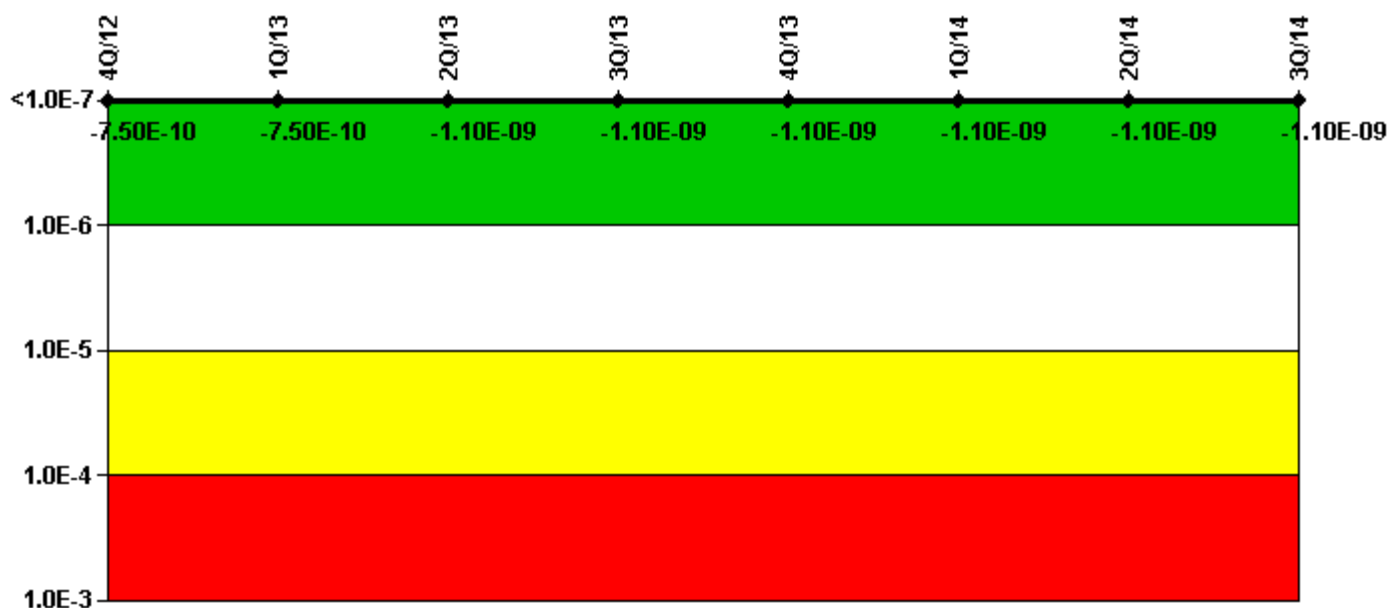
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (ΔCDF)	4.52E-09	4.93E-09	4.35E-09	1.69E-09	2.32E-09	1.66E-09	1.25E-09	1.48E-09
URI (ΔCDF)	6.96E-08	6.96E-08	7.32E-08	7.14E-08	6.79E-08	-1.59E-08	-1.59E-08	-1.65E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.40E-08	7.50E-08	7.80E-08	7.30E-08	7.00E-08	-1.40E-08	-1.50E-08	-1.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	1.85E-10	1.85E-10	-2.01E-10	-2.28E-10	-2.29E-10	-2.43E-10	-2.43E-10	-2.55E-10
URI (Δ CDF)	-9.31E-10	-9.31E-10	-9.02E-10	-8.83E-10	-8.90E-10	-8.90E-10	-8.90E-10	-8.90E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.50E-10	-7.50E-10	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

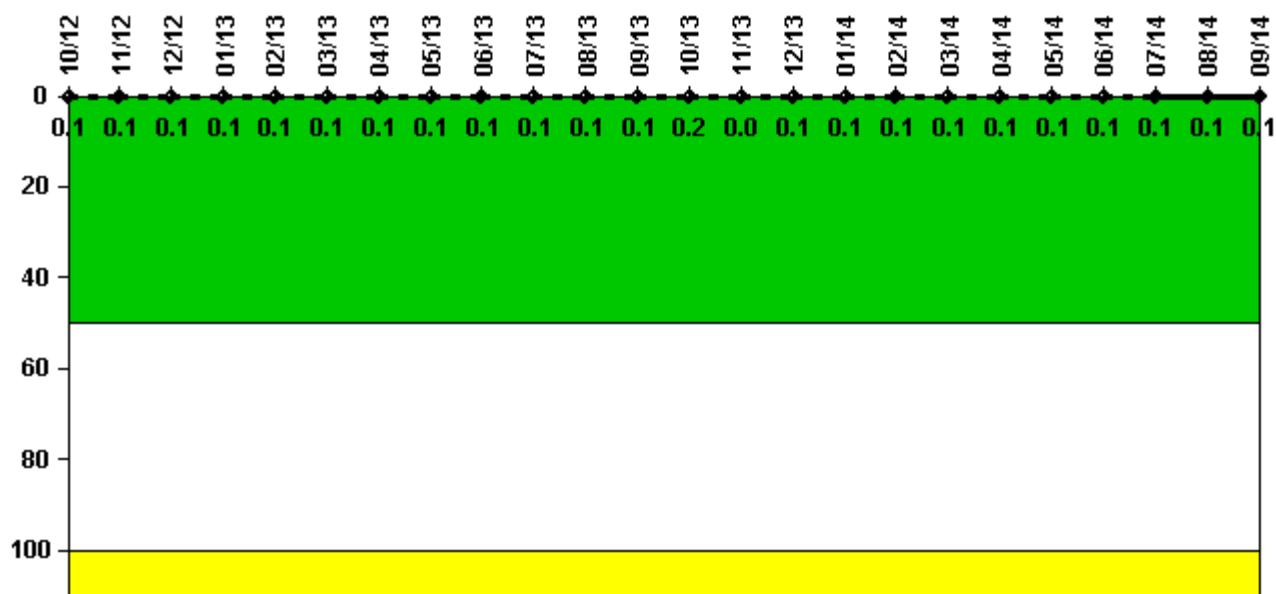
Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	2.16E-09	2.31E-09	2.48E-09	1.78E-09	1.77E-09	1.45E-09	3.44E-09	3.19E-09
URI (Δ CDF)	-2.00E-08	-2.01E-08	-2.01E-08	-2.01E-08	-1.99E-08	-1.53E-08	-1.49E-08	-1.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.40E-08	-1.10E-08	-7.40E-09

Licensee Comments:

2Q/14: Failure No. 311011 on March 29 was added which changed the first quarter indicator with no change in color. See LER report No. 50-280/2014-001-00.

Reactor Coolant System Activity



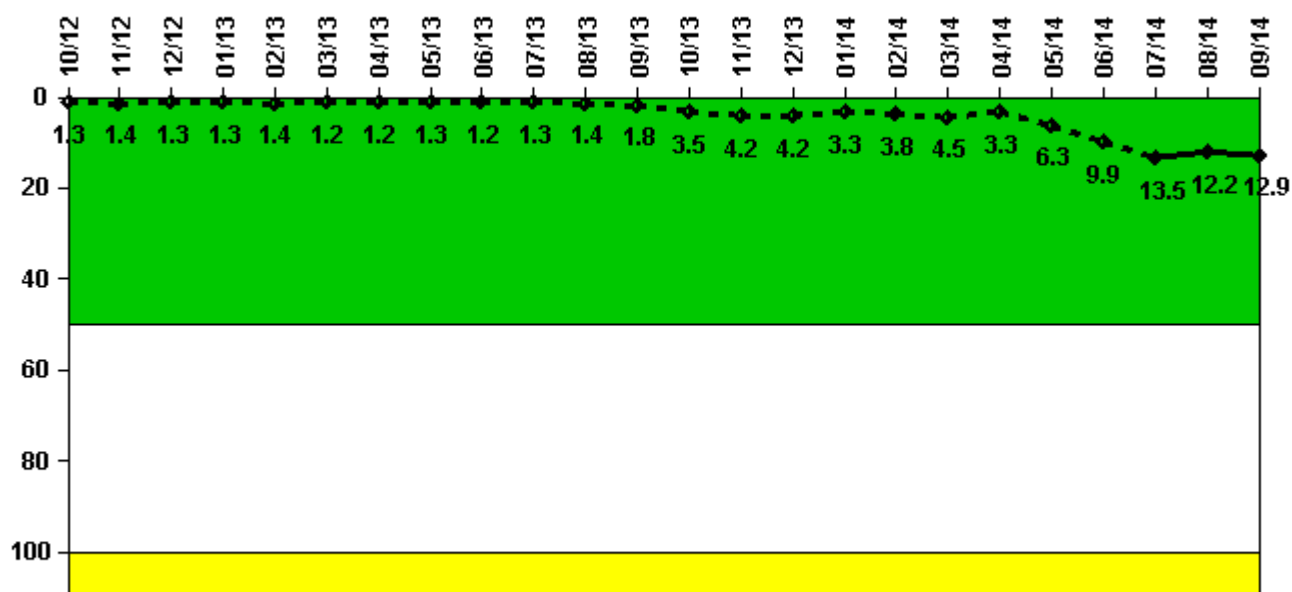
Thresholds: White > 50.0 Yellow > 100.0

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	0.000867	0.000887	0.001030	0.000979	0.001220	0.001160	0.001090	0.001310	0.001280	0.001120	0.001320	0.001490
Technical specification limit	1.0	1.0	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	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum activity	0.001580	0.000475	0.000601	0.000632	0.000631	0.000729	0.000749	0.000817	0.000839	0.000828	0.000910	0.000928
Technical specification limit	1.0	1.0	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	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

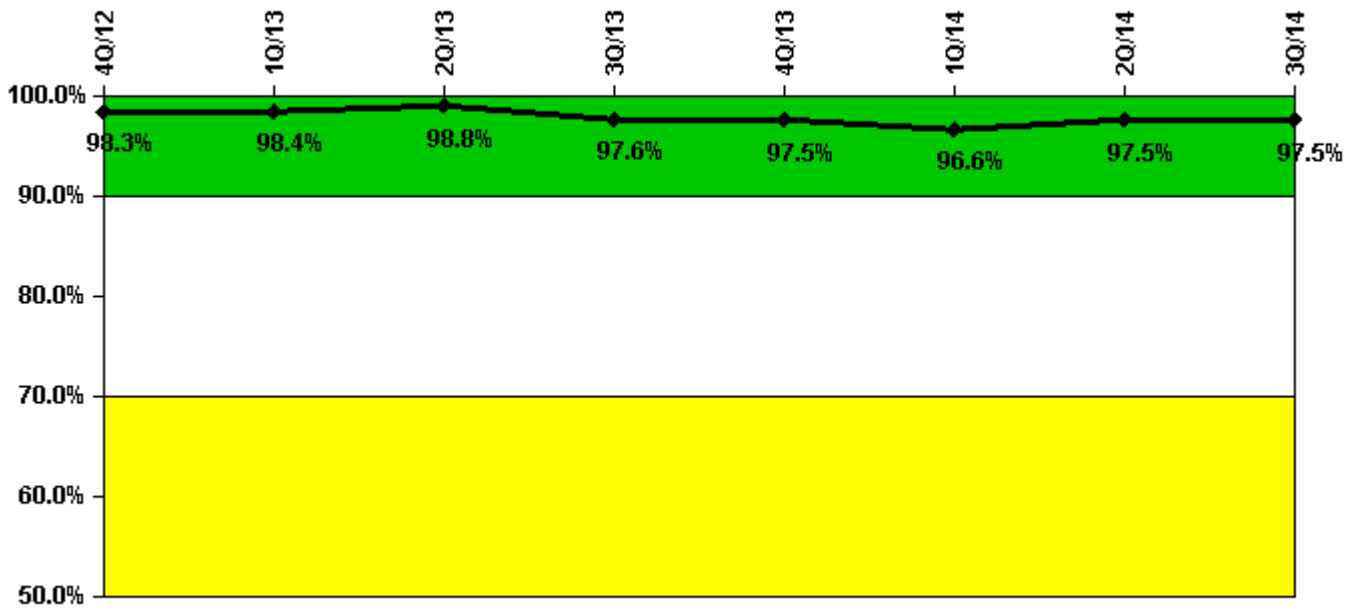
Notes

Reactor Coolant System Leakage	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	0.130	0.140	0.130	0.130	0.140	0.120	0.120	0.130	0.120	0.130	0.140	0.180
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.4	1.3	1.3	1.4	1.2	1.2	1.3	1.2	1.3	1.4	1.8
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	0.350	0.420	0.420	0.330	0.380	0.450	0.330	0.630	0.990	1.350	1.220	1.290
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.5	4.2	4.2	3.3	3.8	4.5	3.3	6.3	9.9	13.5	12.2	12.9

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September and November of 2012. The data has been corrected. This correction does not change the color of any performance indicators.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

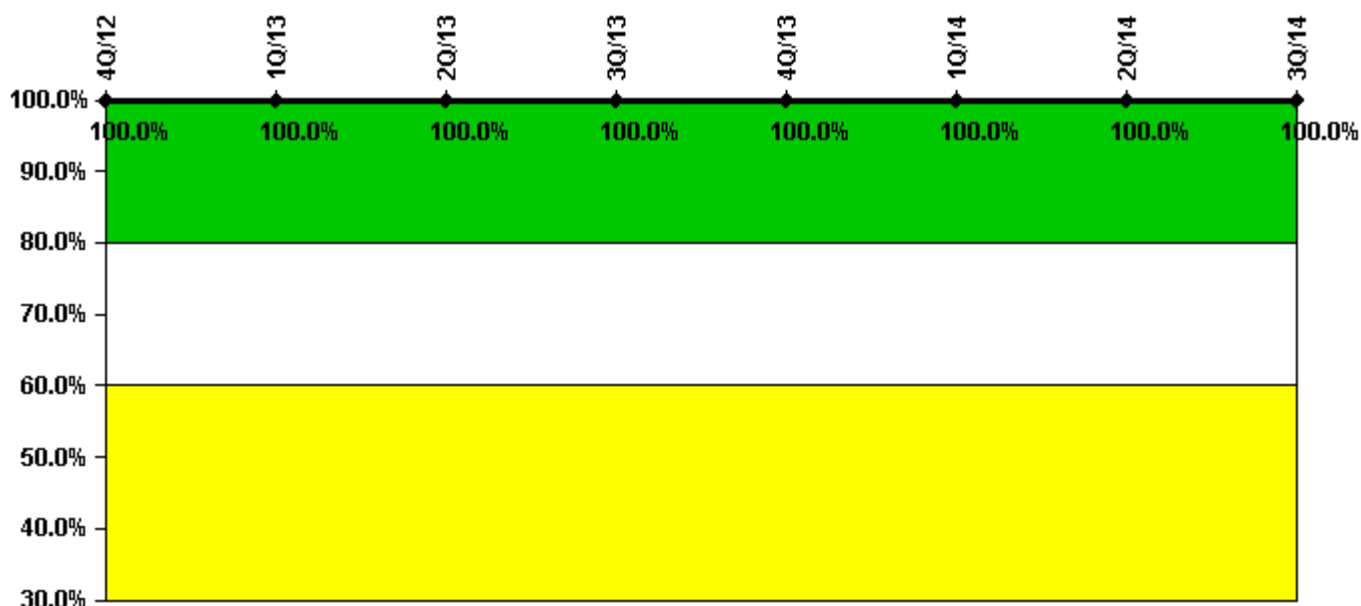
Notes

Drill/Exercise Performance	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful opportunities	24.0	48.0	22.0	28.0	14.0	36.0	28.0	33.0
Total opportunities	24.0	49.0	22.0	31.0	14.0	38.0	28.0	33.0
Indicator value	98.3%	98.4%	98.8%	97.6%	97.5%	96.6%	97.5%	97.5%

Licensee Comments:

3Q/14: Further review of a March 2014 ERO drill determined an initial successful DEP opportunity was not successful. Historical data was corrected with no change in color.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

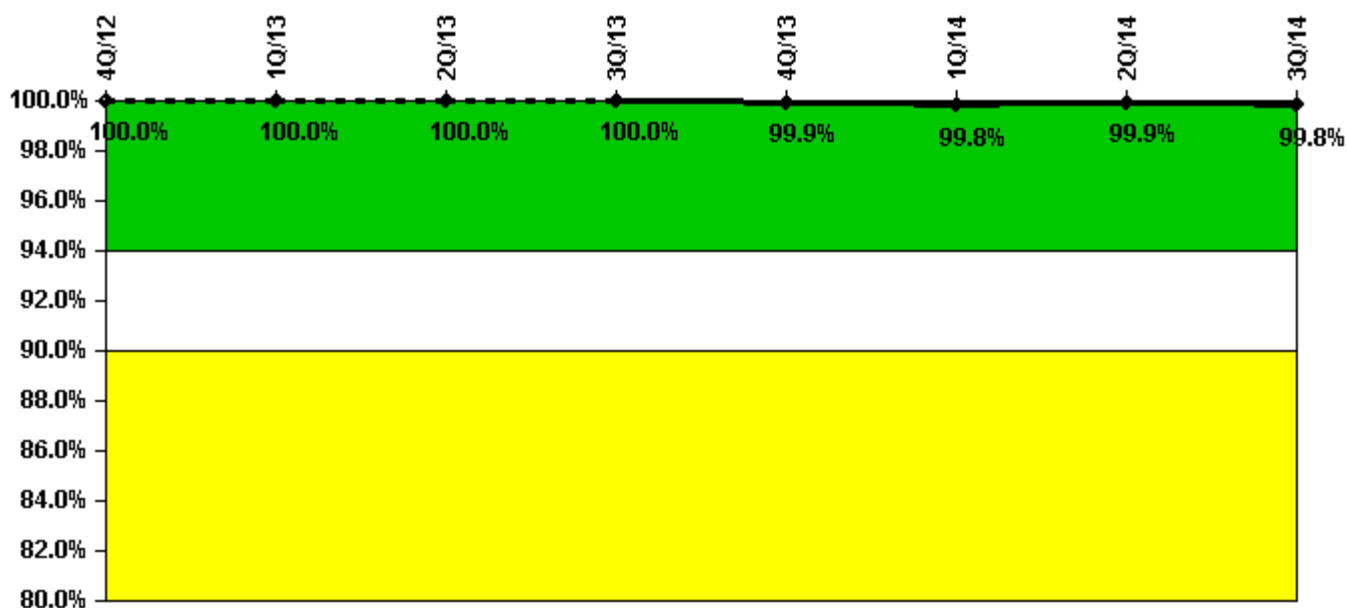
Notes

ERO Drill Participation	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Participating Key personnel	155.0	165.0	161.0	160.0	159.0	156.0	152.0	154.0
Total Key personnel	155.0	165.0	161.0	160.0	159.0	156.0	152.0	154.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

3Q/14: An assessment determined the total number of personnel in key ERO positions was inaccurate. Historical data was corrected with no change in color.

Alert & Notification System



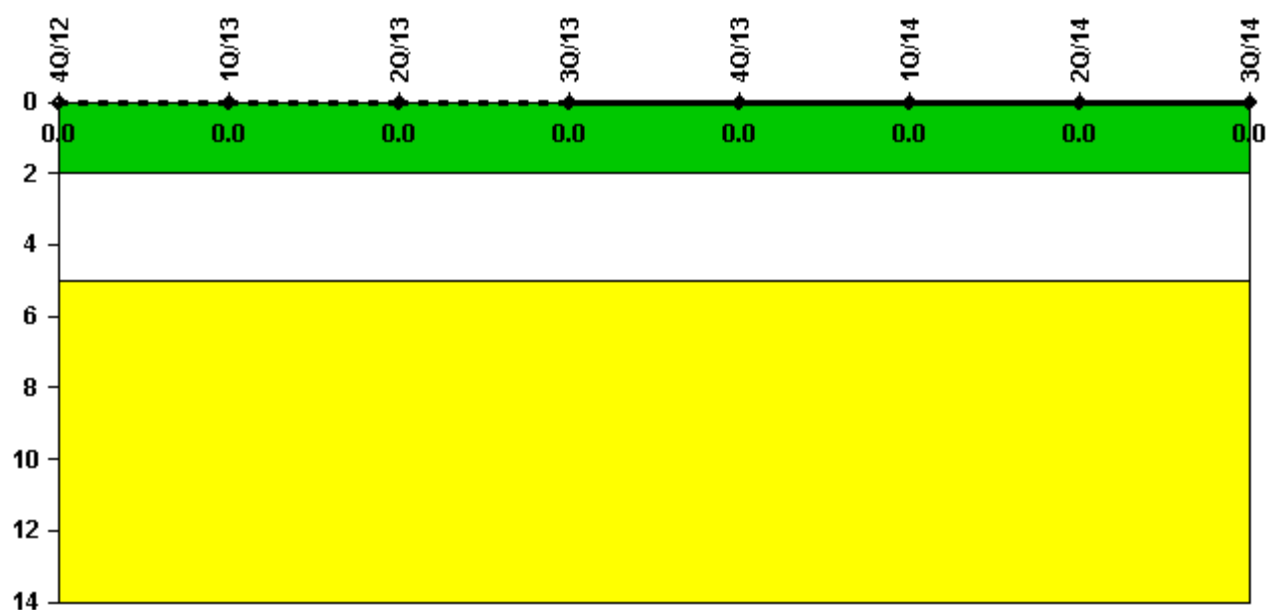
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful siren-tests	559	497	567	497	566	496	568	567
Total sirens-tests	559	497	568	497	568	497	568	568
Indicator value	100.0%	100.0%	100.0%	100.0%	99.9%	99.8%	99.9%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness

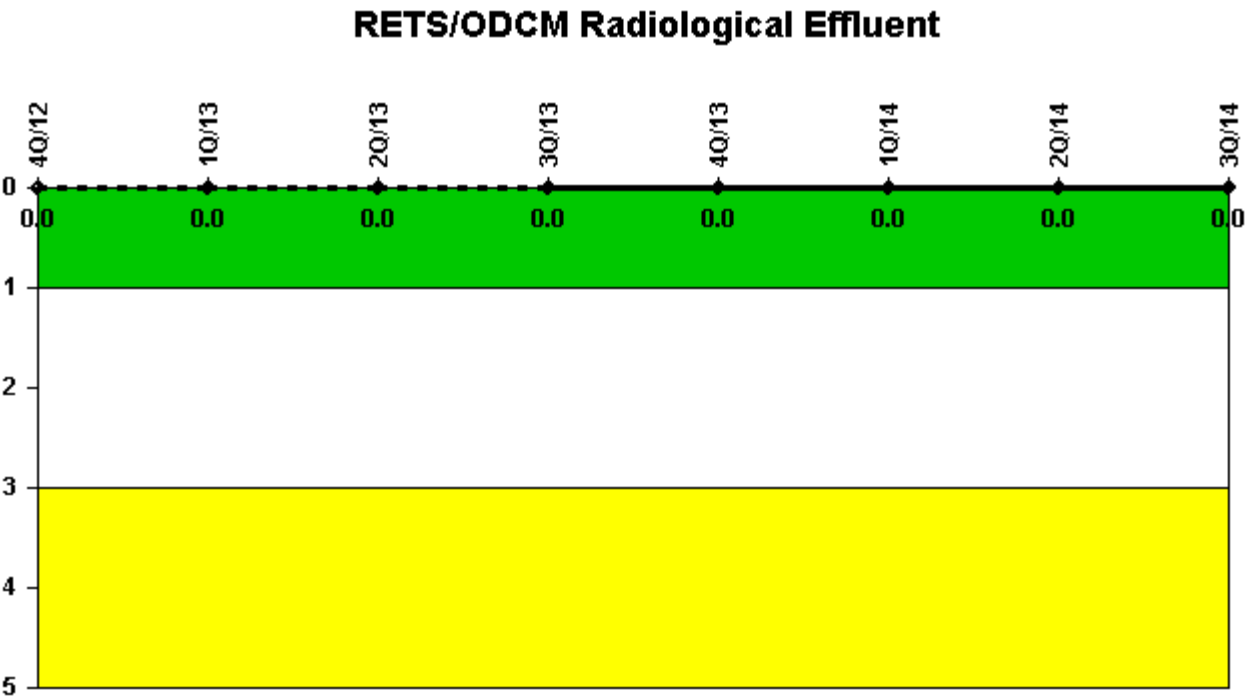


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

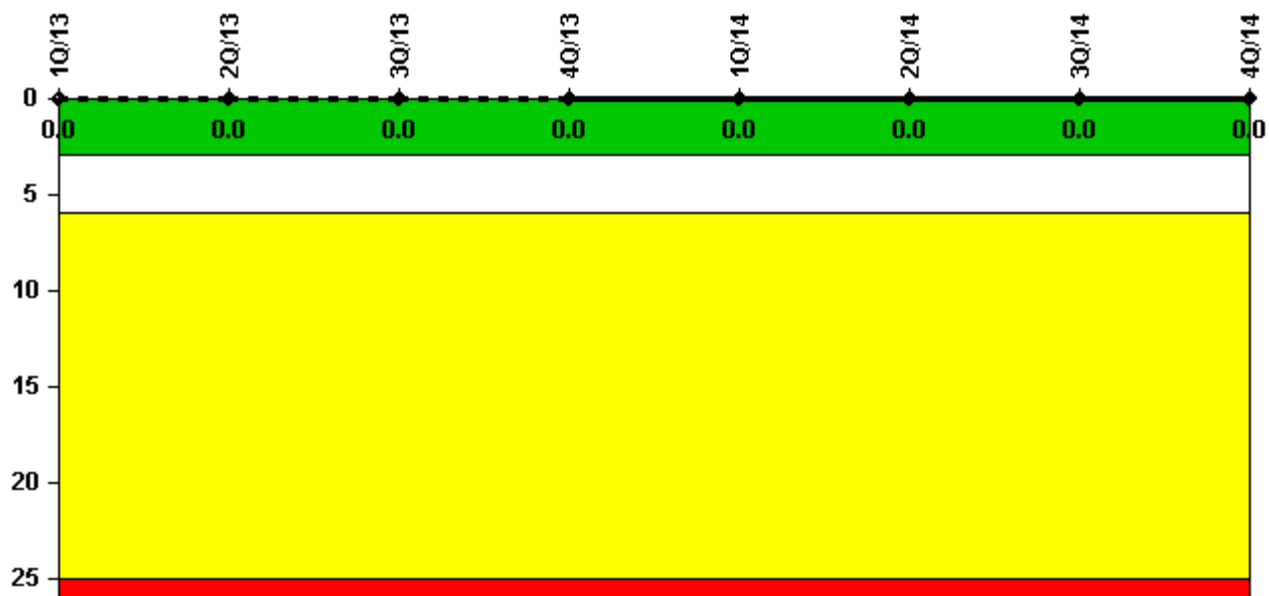
Surry 1

4Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



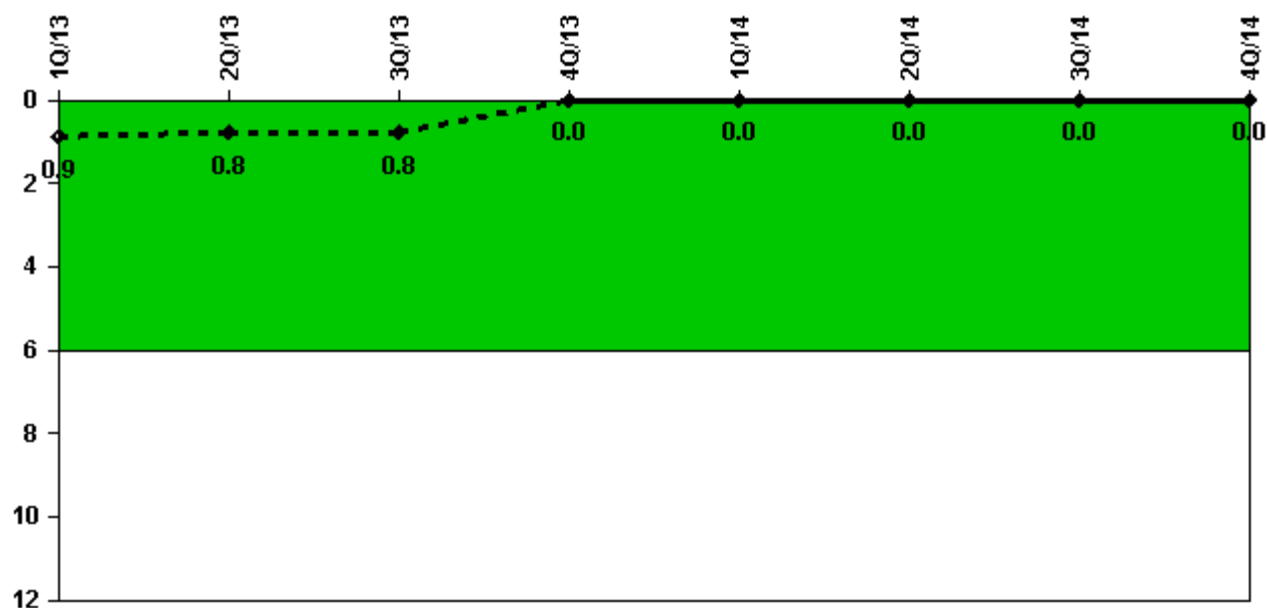
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	1450.9	2159.0	2184.0	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



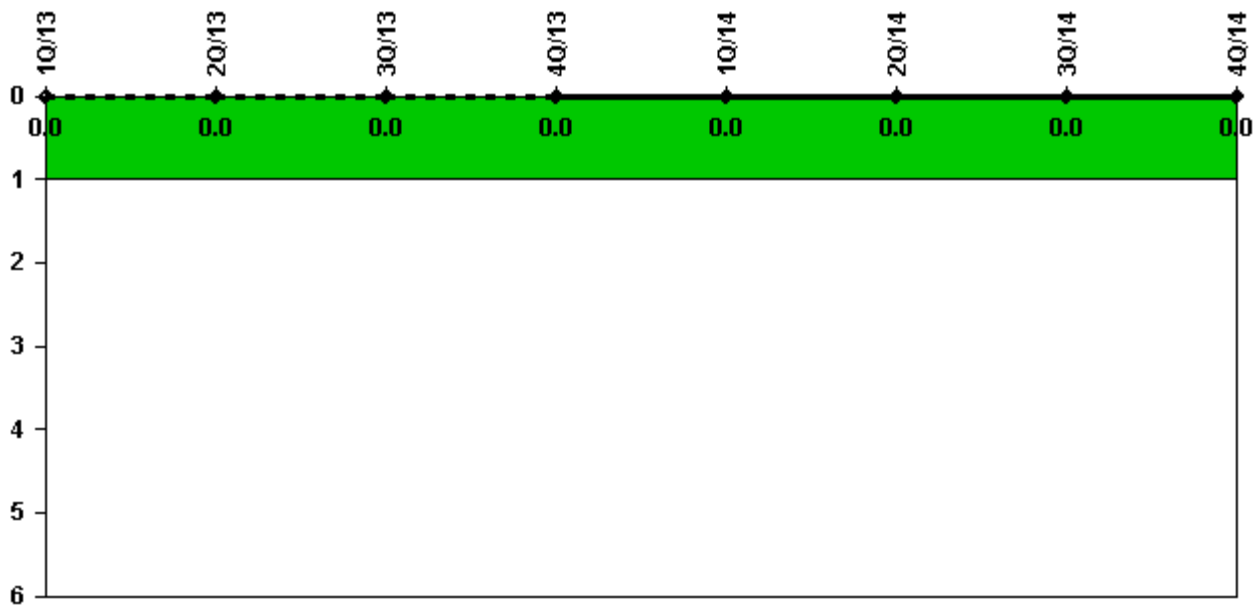
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	1450.9	2159.0	2184.0	2208.0	2209.0
Indicator value	0.9	0.8	0.8	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



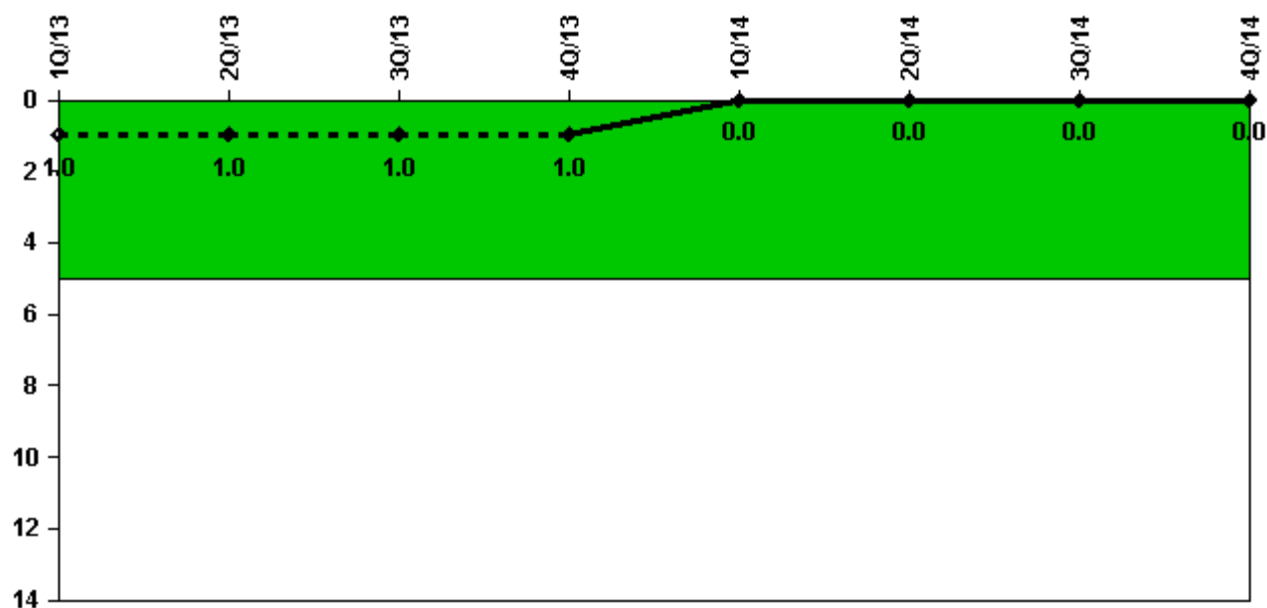
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

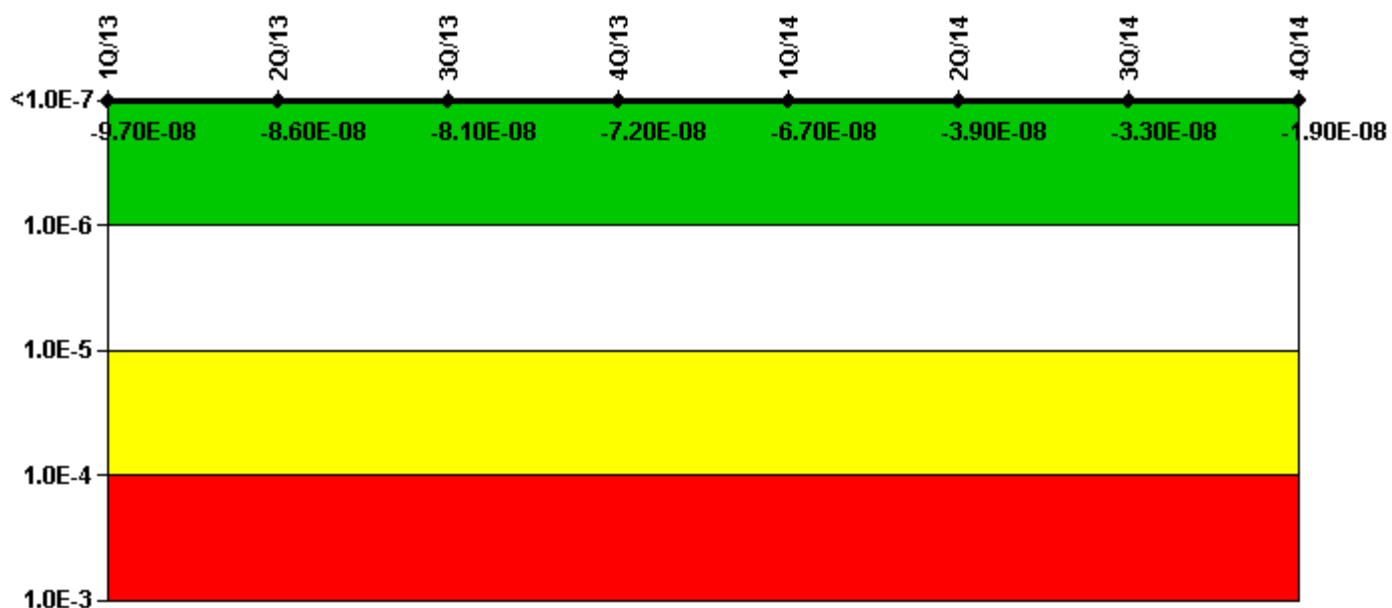
Notes

Safety System Functional Failures (PWR)	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Safety System Functional Failures	1	0	0	0	0	0	0	0
Indicator value	1	1	1	1	0	0	0	0

Licensee Comments:

1Q/13: See Surry LER S1-2013-001-00 dated January 30, 2013.

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-2.75E-09
URI (Δ CDF)	-8.29E-08	-7.22E-08	-6.70E-08	-5.84E-08	-5.33E-08	-2.55E-08	-1.96E-08	-1.61E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.70E-08	-8.60E-08	-8.10E-08	-7.20E-08	-6.70E-08	-3.90E-08	-3.30E-08	-1.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	-8.22E-10	-8.24E-10	-7.80E-10	-7.85E-10	-8.09E-10	-8.72E-10	-8.26E-10	-7.99E-10
URI (Δ CDF)	-1.43E-08	-1.43E-08	-1.41E-08	-1.39E-08	-1.39E-08	-1.36E-08	-1.38E-08	-1.36E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.40E-08	-1.50E-08	-1.40E-08

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

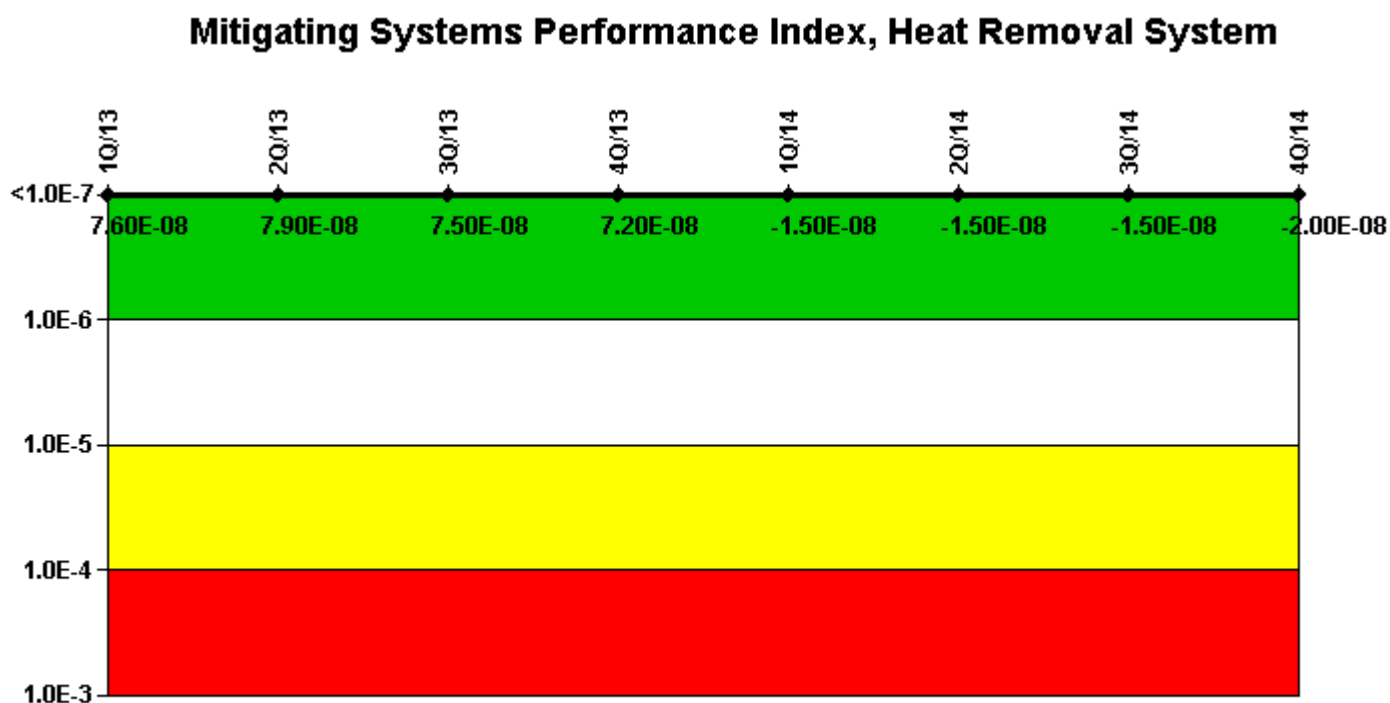
1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

2Q/13: Changed PRA Parameter(s).

1Q/13: Changed PRA Parameter(s).



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

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	4.93E-09	4.35E-09	1.69E-09	2.32E-09	1.66E-09	1.25E-09	1.48E-09	-2.13E-09
URI (Δ CDF)	7.13E-08	7.51E-08	7.32E-08	6.96E-08	-1.63E-08	-1.63E-08	-1.69E-08	-1.74E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.60E-08	7.90E-08	7.50E-08	7.20E-08	-1.50E-08	-1.50E-08	-1.50E-08	-2.00E-08

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

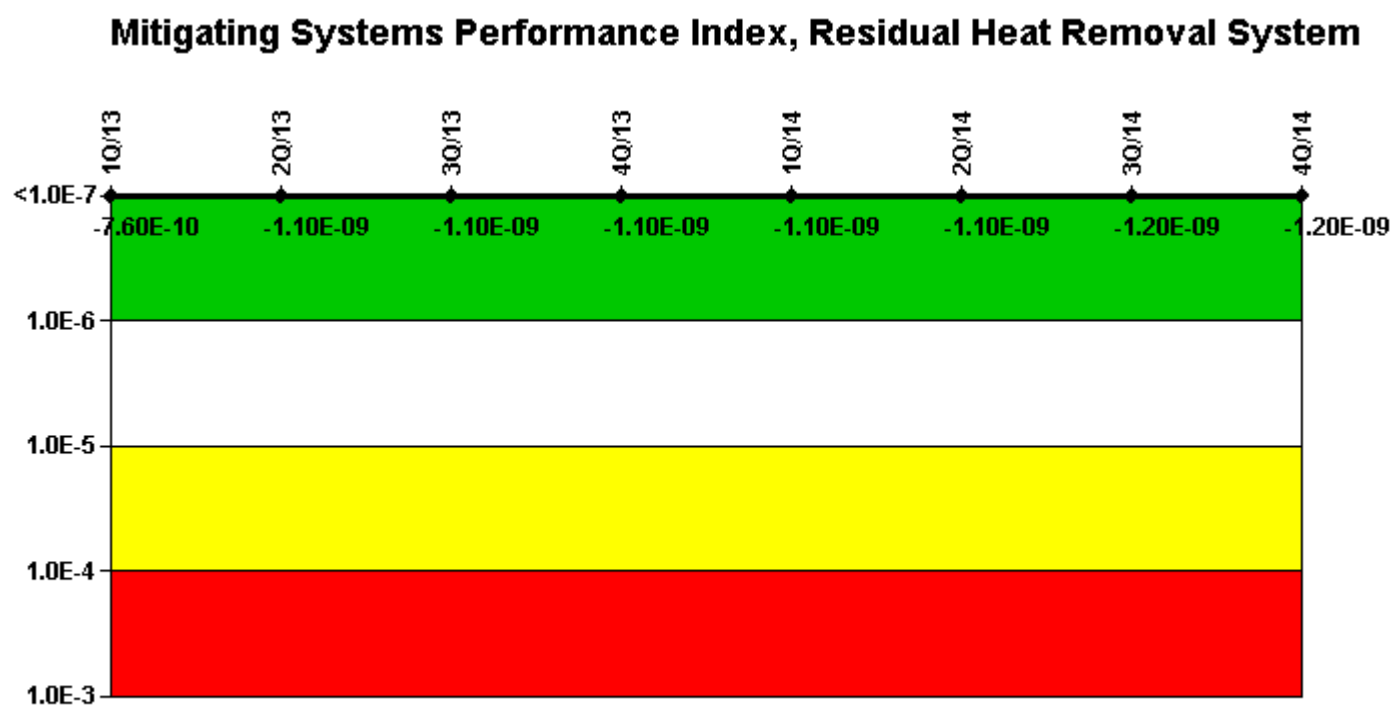
1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

2Q/13: Changed PRA Parameter(s).

1Q/13: Changed PRA Parameter(s).



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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	1.85E-10	-2.01E-10	-2.28E-10	-2.29E-10	-2.43E-10	-2.43E-10	-2.55E-10	-2.55E-10
URI (Δ CDF)	-9.45E-10	-9.16E-10	-8.96E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.03E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.60E-10	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.20E-09	-1.20E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

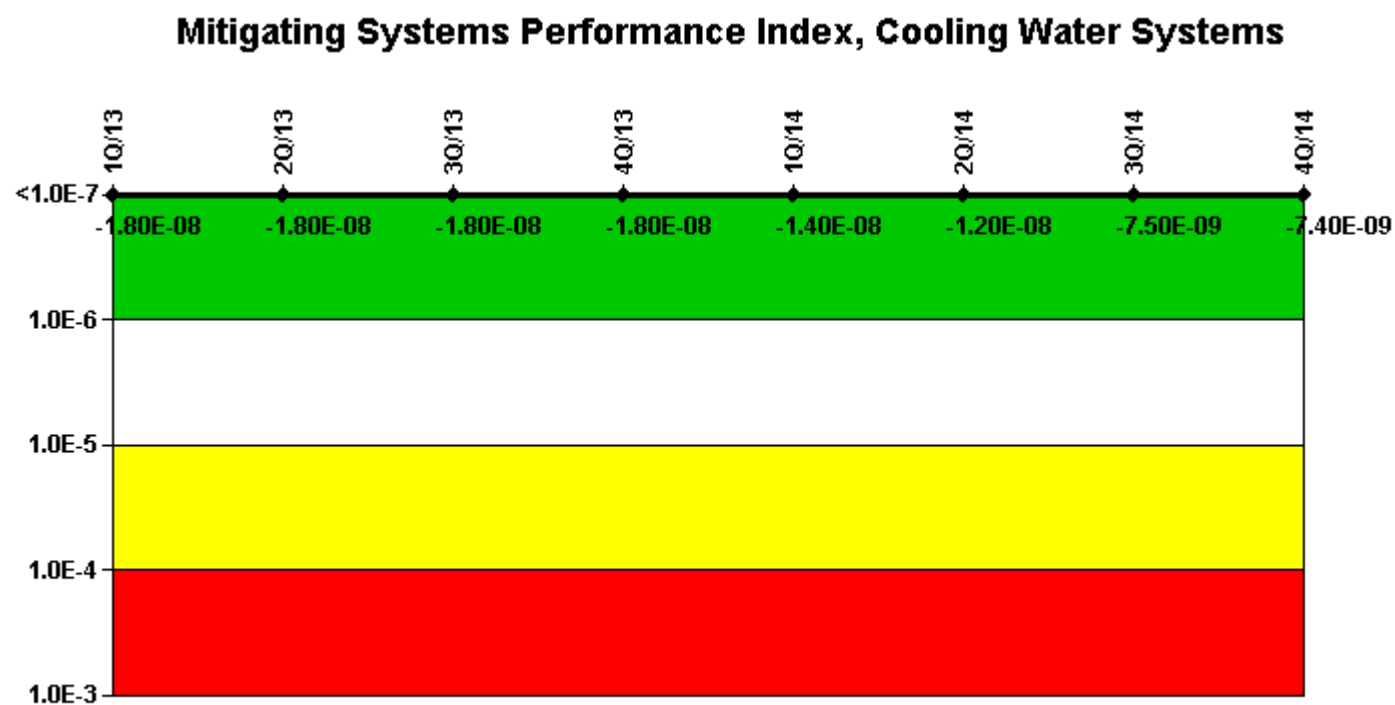
1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

2Q/13: Changed PRA Parameter(s).

1Q/13: Changed PRA Parameter(s).



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)	2.13E-09	2.26E-09	1.59E-09	1.58E-09	1.27E-09	3.30E-09	3.04E-09	3.25E-09
	-2.01E-	-2.01E-	-2.01E-	-1.99E-	-1.53E-	-1.49E-	-1.05E-	-1.07E-

URI (Δ CDF)	08	08	08	08	08	08	08	08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.40E-08	-1.20E-08	-7.50E-09	-7.40E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Failure No. 311011 on March 29 was added which changed the first quarter indicator with no change in color. See LER report No. 50-280/2014-001-00.

2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

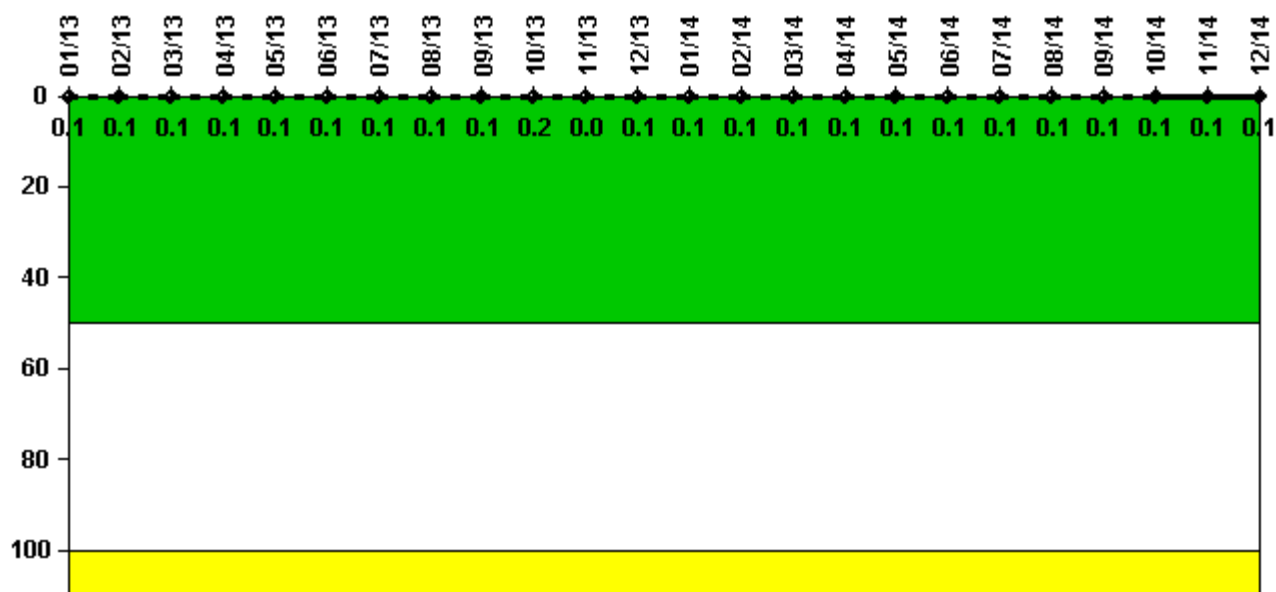
4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

2Q/13: Changed PRA Parameter(s).

1Q/13: Changed PRA Parameter(s).

Reactor Coolant System Activity



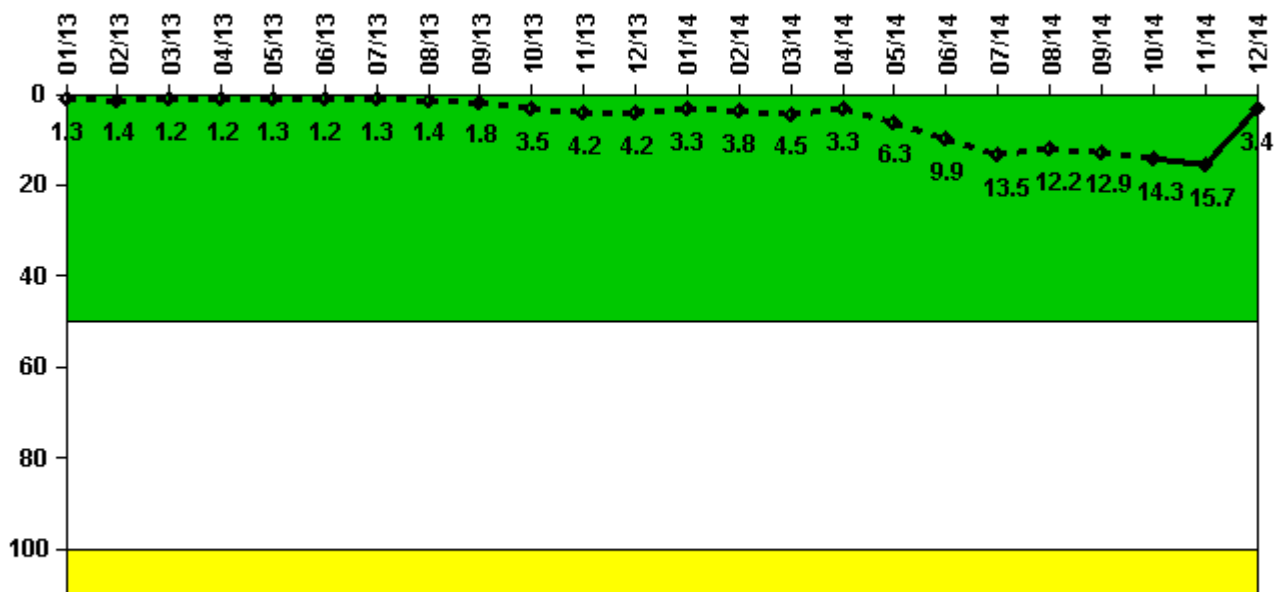
Thresholds: White > 50.0 Yellow > 100.0

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	0.000979	0.001220	0.001160	0.001090	0.001310	0.001280	0.001120	0.001320	0.001490	0.001580	0.000475	0.000601
Technical specification limit	1.0	1.0	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	0.2	0	0.1
Reactor Coolant System Activity	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum activity	0.000632	0.000631	0.000729	0.000749	0.000817	0.000839	0.000828	0.000910	0.000928	0.000929	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

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

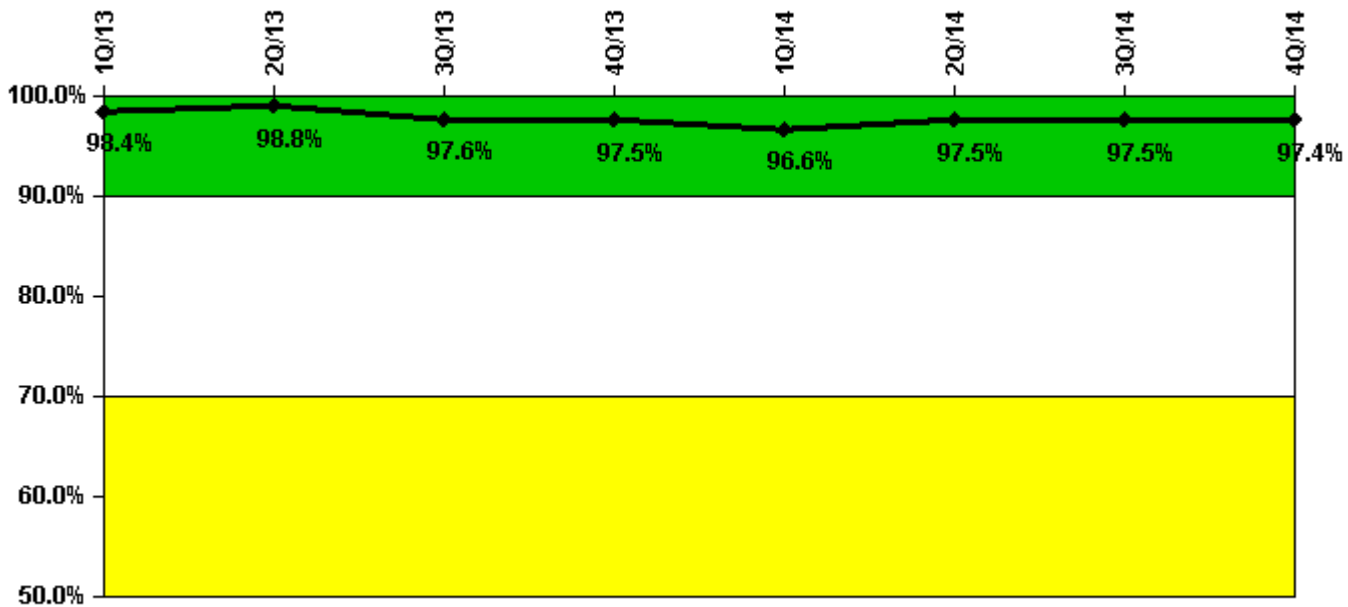
Notes

Reactor Coolant System Leakage	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum leakage	0.130	0.140	0.120	0.120	0.130	0.120	0.130	0.140	0.180	0.350	0.420	0.420
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.4	1.2	1.2	1.3	1.2	1.3	1.4	1.8	3.5	4.2	4.2
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	0.330	0.380	0.450	0.330	0.630	0.990	1.350	1.220	1.290	1.430	1.570	0.340
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.3	3.8	4.5	3.3	6.3	9.9	13.5	12.2	12.9	14.3	15.7	3.4

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September and November of 2012. The data has been corrected. This correction does not change the color of any performance indicators.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

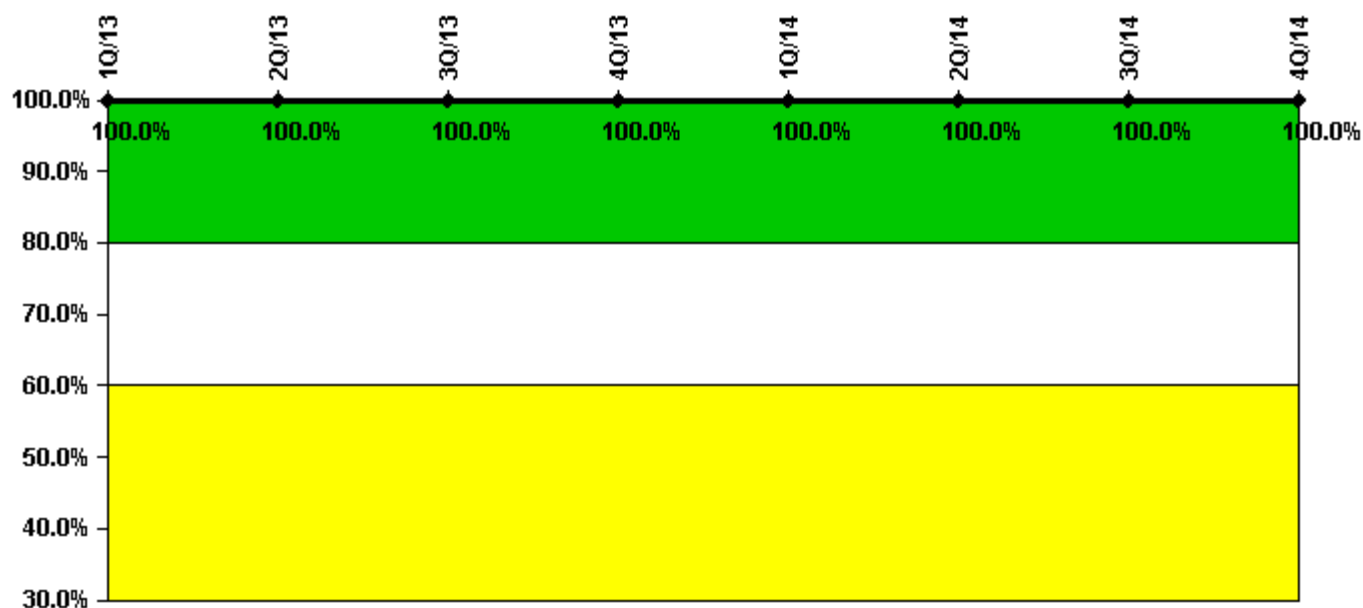
Notes

Drill/Exercise Performance	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful opportunities	48.0	22.0	28.0	14.0	36.0	28.0	33.0	19.0
Total opportunities	49.0	22.0	31.0	14.0	38.0	28.0	33.0	19.0
Indicator value	98.4%	98.8%	97.6%	97.5%	96.6%	97.5%	97.5%	97.4%

Licensee Comments:

3Q/14: Further review of a March 2014 ERO drill determined an initial successful DEP opportunity was not successful. Historical data was corrected with no change in color.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

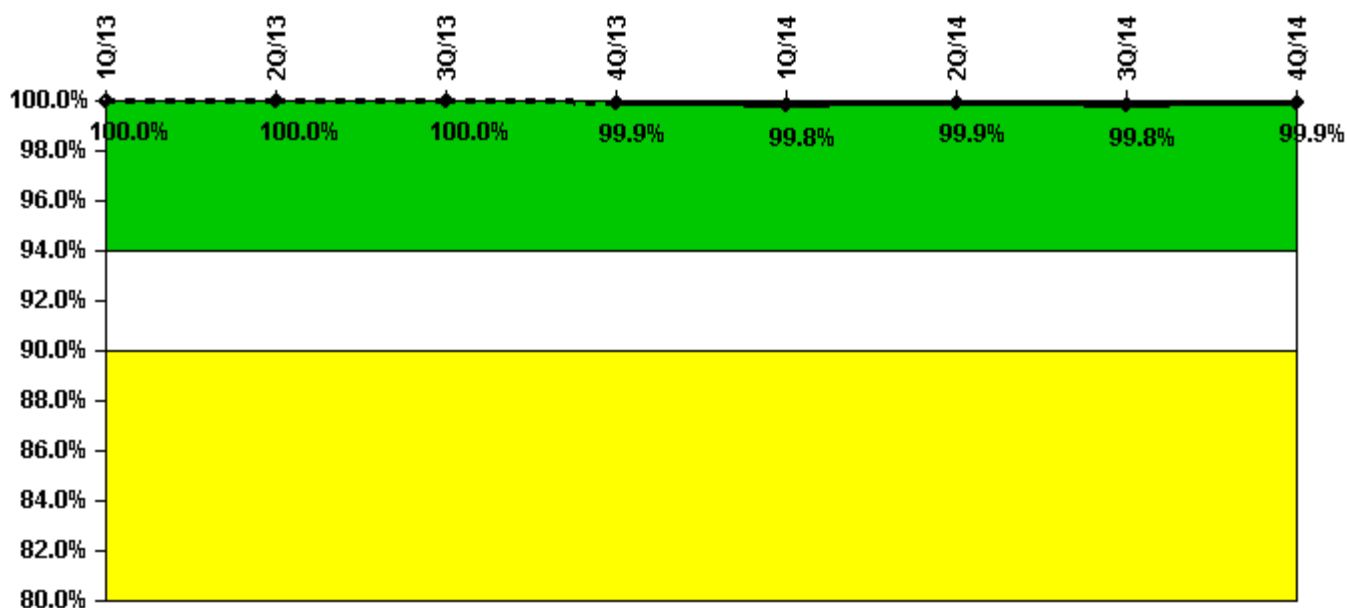
Notes

ERO Drill Participation	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Participating Key personnel	165.0	161.0	160.0	159.0	156.0	152.0	154.0	151.0
Total Key personnel	165.0	161.0	160.0	159.0	156.0	152.0	154.0	151.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

3Q/14: An assessment determined the total number of personnel in key ERO positions was inaccurate. Historical data was corrected with no change in color.

Alert & Notification System



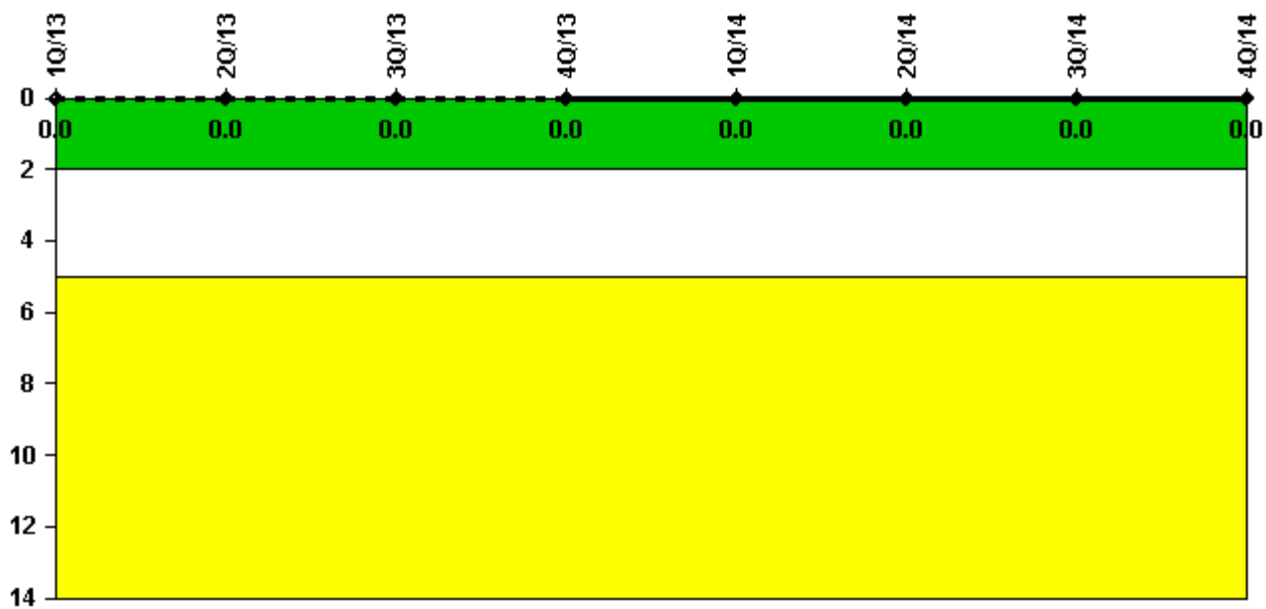
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful siren-tests	497	567	497	566	496	568	567	497
Total sirens-tests	497	568	497	568	497	568	568	497
Indicator value	100.0%	100.0%	100.0%	99.9%	99.8%	99.9%	99.8%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



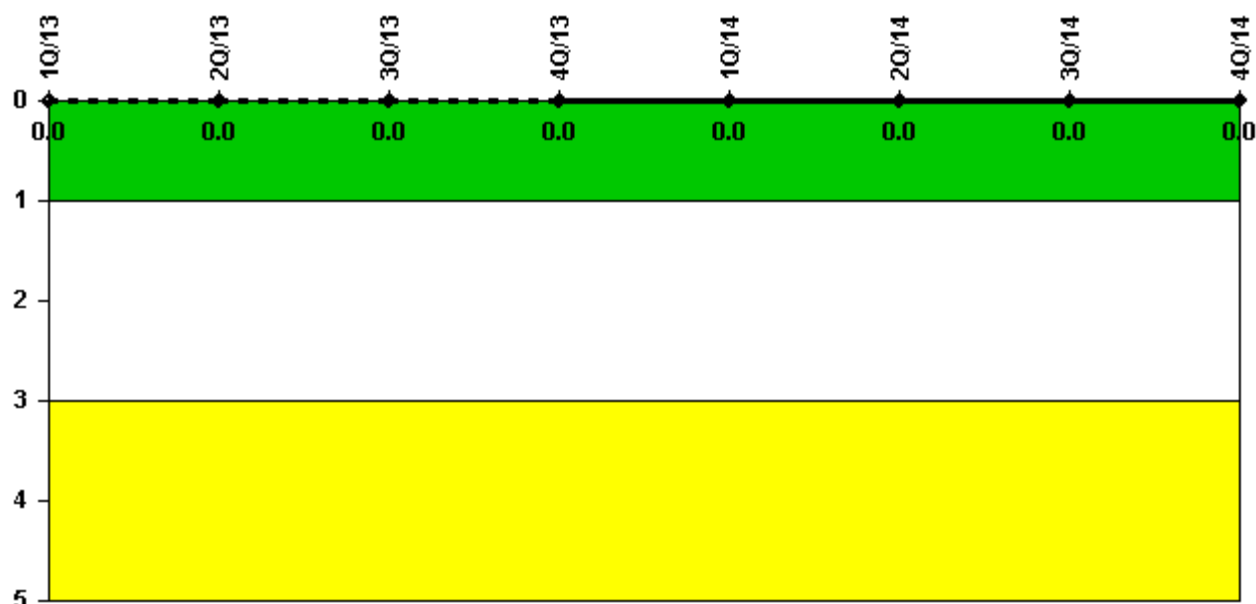
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	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/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

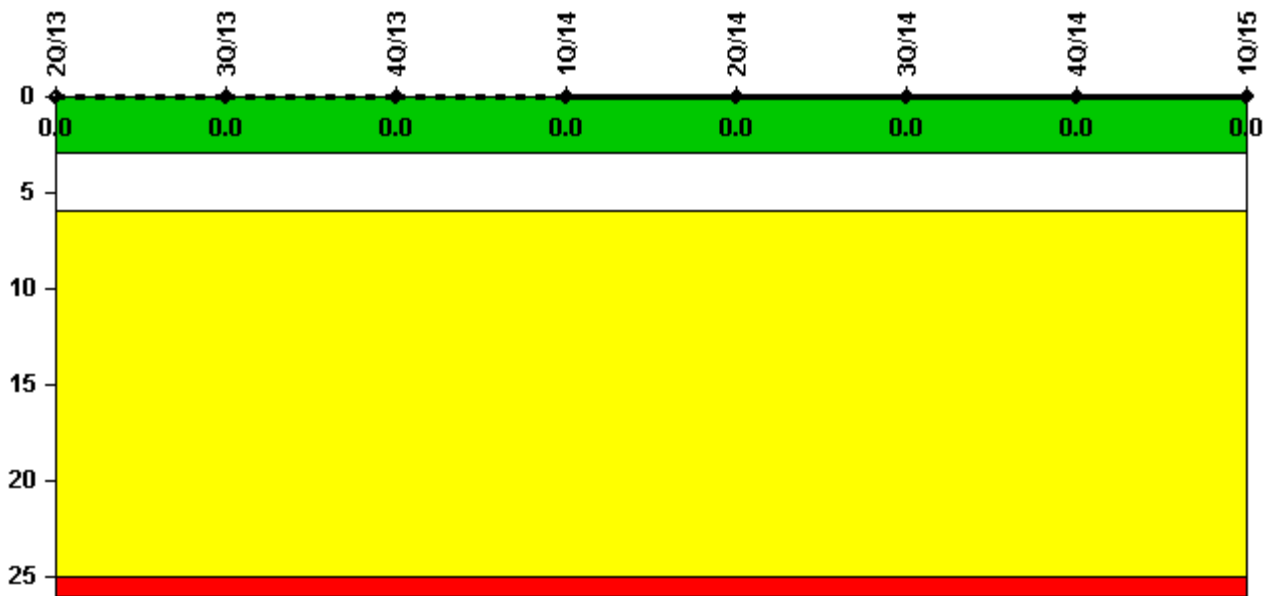
Surry 1

1Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



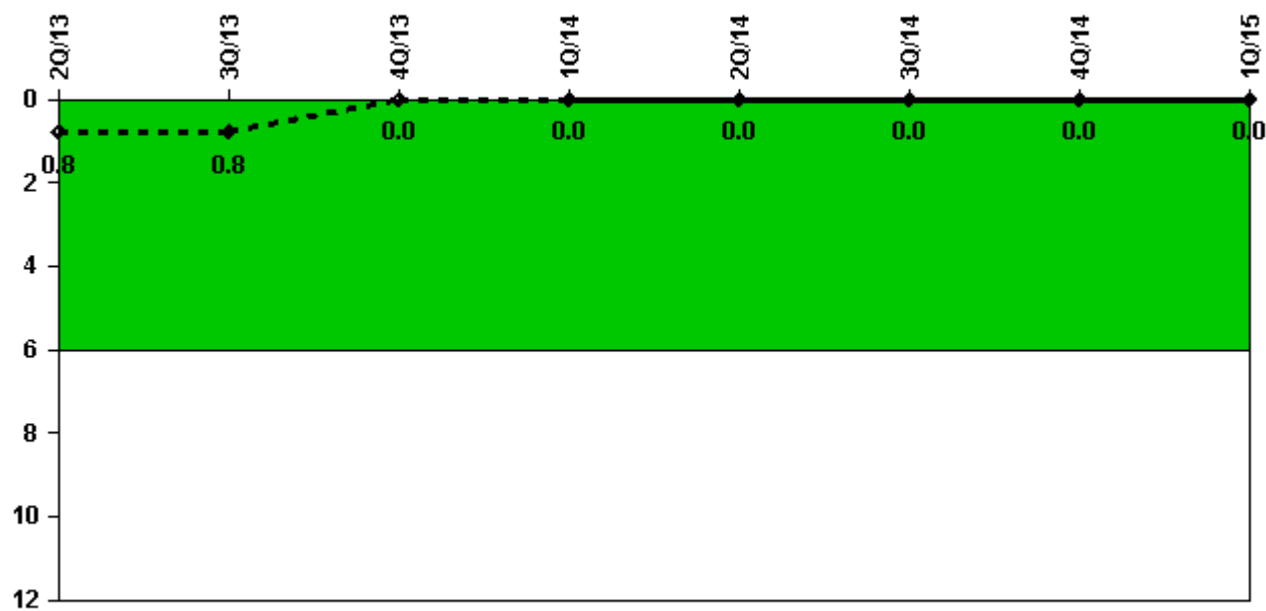
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	1450.9	2159.0	2184.0	2208.0	2209.0	2159.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



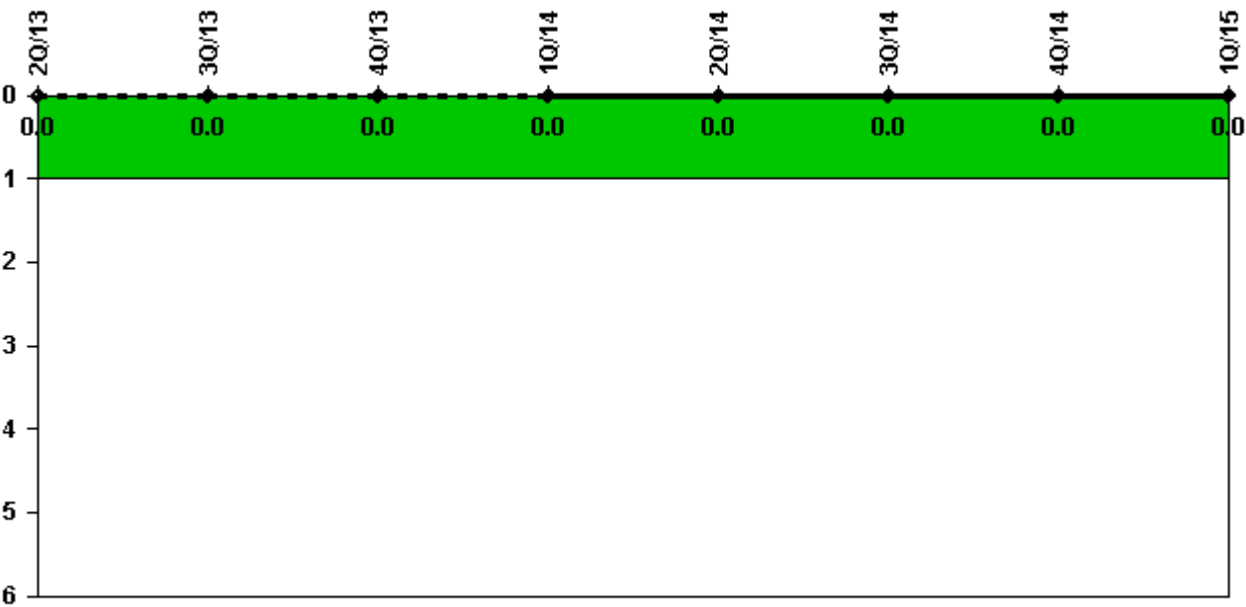
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	1450.9	2159.0	2184.0	2208.0	2209.0	2159.0
Indicator value	0.8	0.8	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



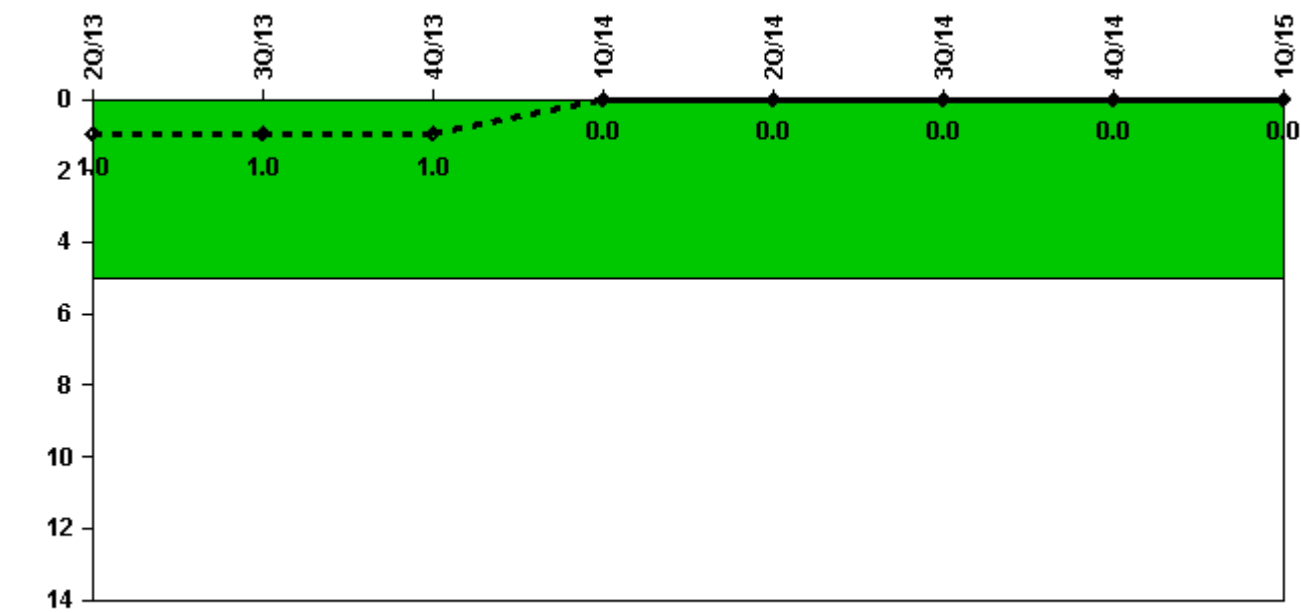
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



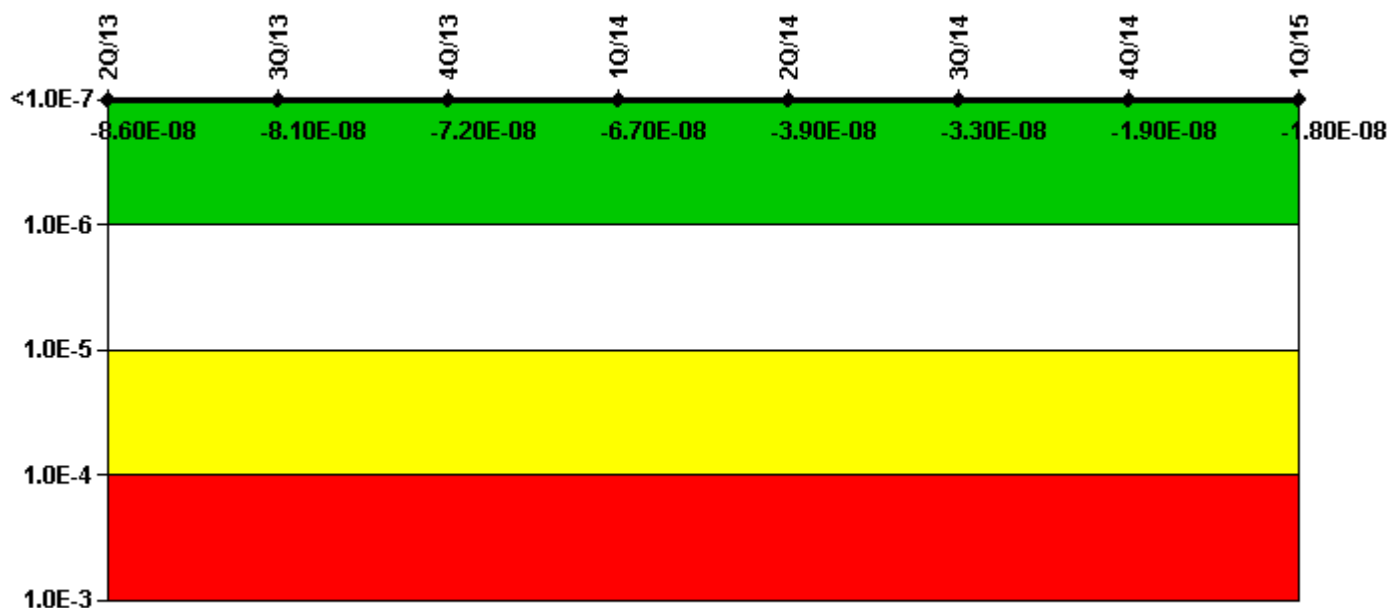
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	1	1	1	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



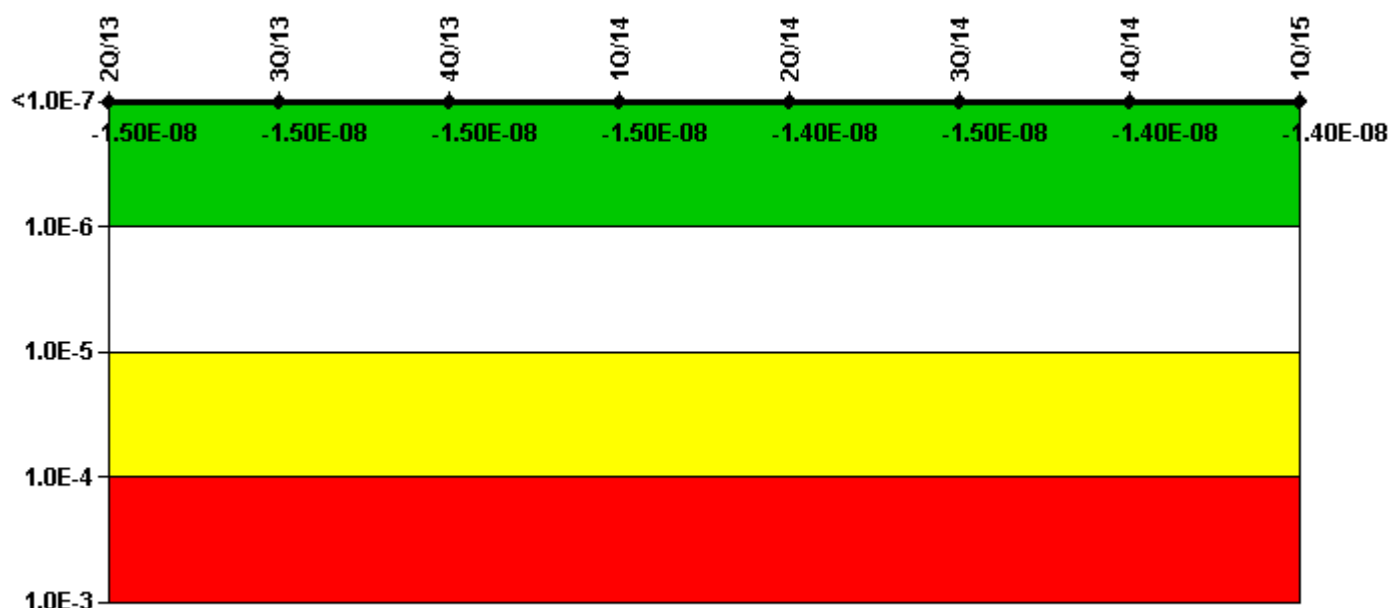
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-2.75E-09	-2.74E-09
URI (Δ CDF)	-7.22E-08	-6.70E-08	-5.84E-08	-5.33E-08	-2.55E-08	-1.96E-08	-1.61E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.60E-08	-8.10E-08	-7.20E-08	-6.70E-08	-3.90E-08	-3.30E-08	-1.90E-08	-1.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	-8.24E-10	-7.80E-10	-7.85E-10	-8.09E-10	-8.72E-10	-8.26E-10	-7.99E-10	-9.98E-10
URI (Δ CDF)	-1.43E-08	-1.41E-08	-1.39E-08	-1.39E-08	-1.36E-08	-1.38E-08	-1.36E-08	-1.32E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.40E-08	-1.50E-08	-1.40E-08	-1.40E-08

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

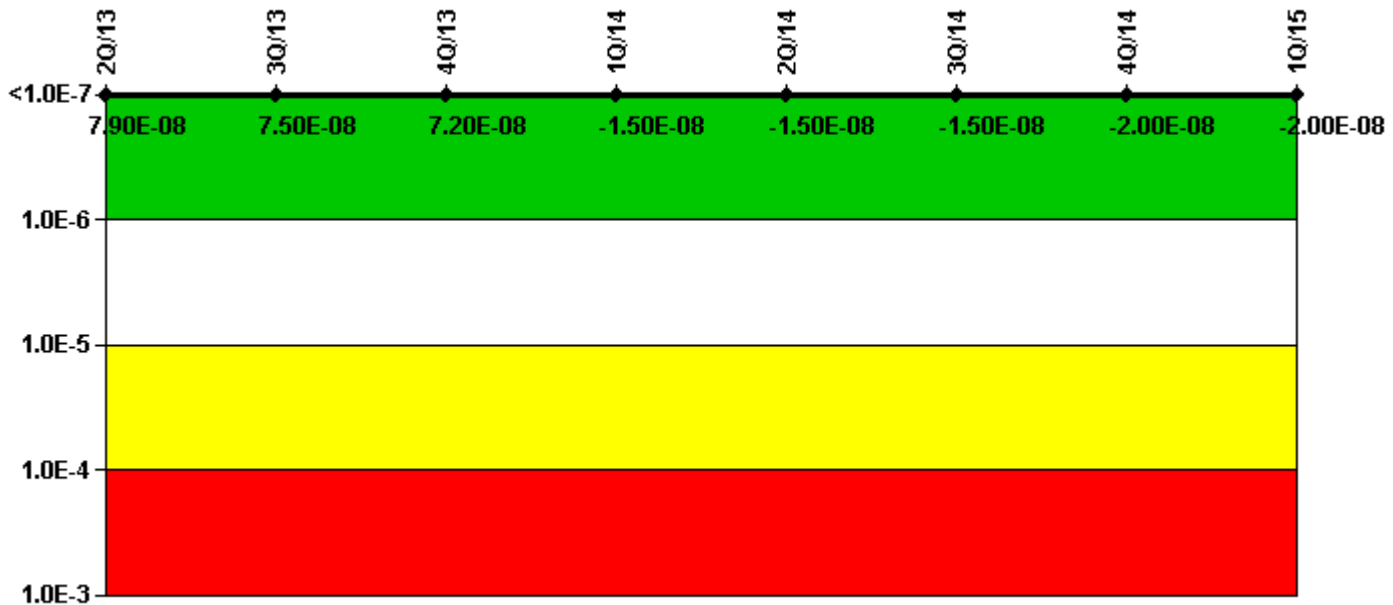
1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

2Q/13: 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	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	4.35E-09	1.69E-09	2.32E-09	1.66E-09	1.25E-09	1.48E-09	-2.13E-09	-2.02E-09
URI (Δ CDF)	7.51E-08	7.32E-08	6.96E-08	-1.63E-08	-1.63E-08	-1.69E-08	-1.74E-08	-1.79E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.90E-08	7.50E-08	7.20E-08	-1.50E-08	-1.50E-08	-1.50E-08	-2.00E-08	-2.00E-08

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

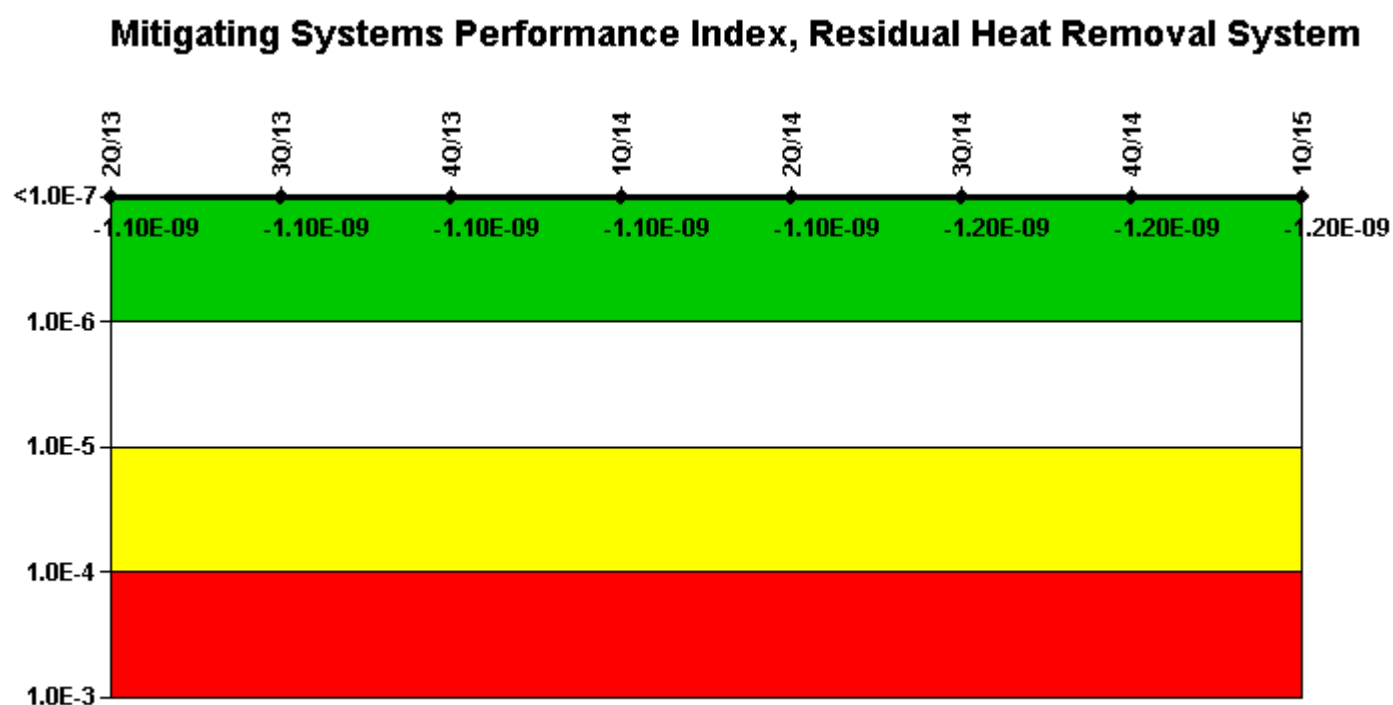
2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

2Q/13: Changed PRA Parameter(s).



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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	-2.01E-10	-2.28E-10	-2.29E-10	-2.43E-10	-2.43E-10	-2.55E-10	-2.55E-10	-2.70E-10
URI (Δ CDF)	-9.16E-10	-8.96E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.03E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.20E-09	-1.20E-09	-1.20E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

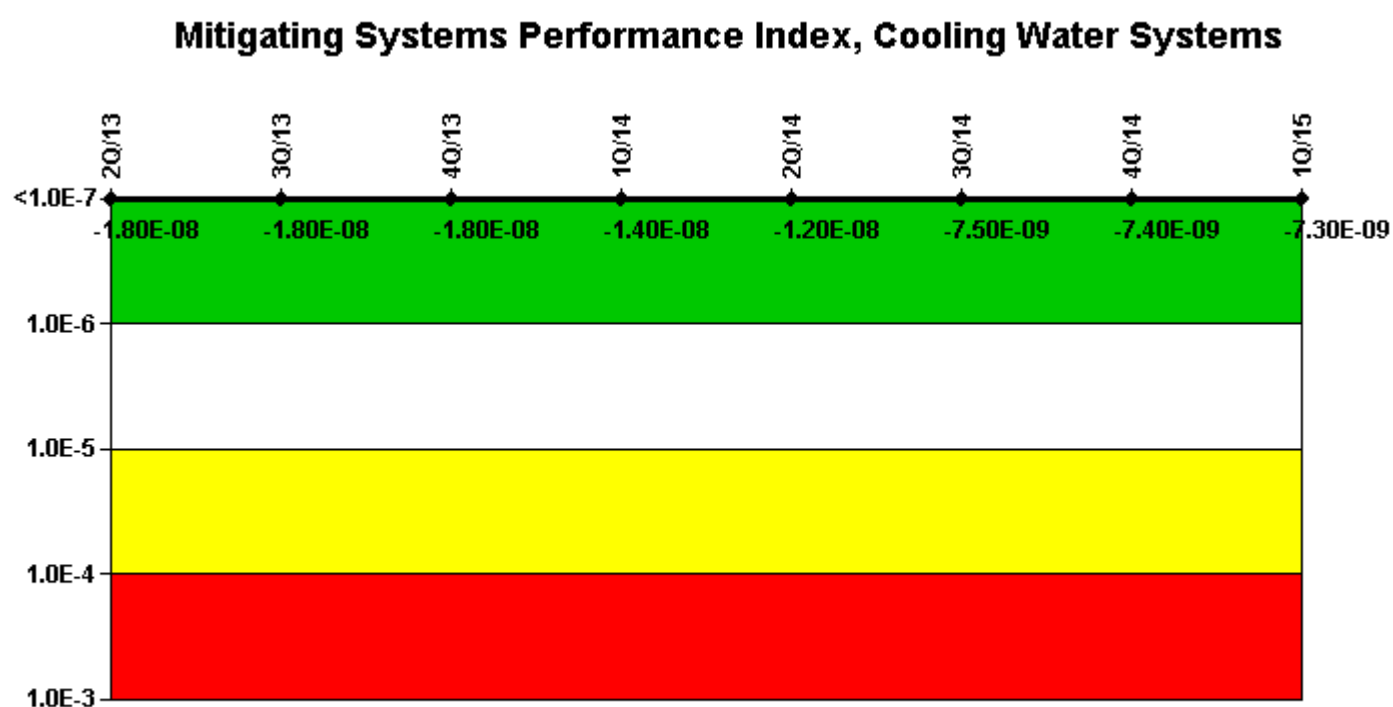
2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

2Q/13: Changed PRA Parameter(s).



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)	2.26E-09	1.59E-09	1.58E-09	1.27E-09	3.30E-09	3.04E-09	3.25E-09	3.15E-09
URI (ΔCDF)	-2.01E-08	-2.01E-08	-1.99E-08	-1.53E-08	-1.49E-08	-1.05E-08	-1.07E-08	-1.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-1.80E-08	-1.80E-08	-1.40E-08	-1.20E-08	-7.50E-09	-7.40E-09	-7.30E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

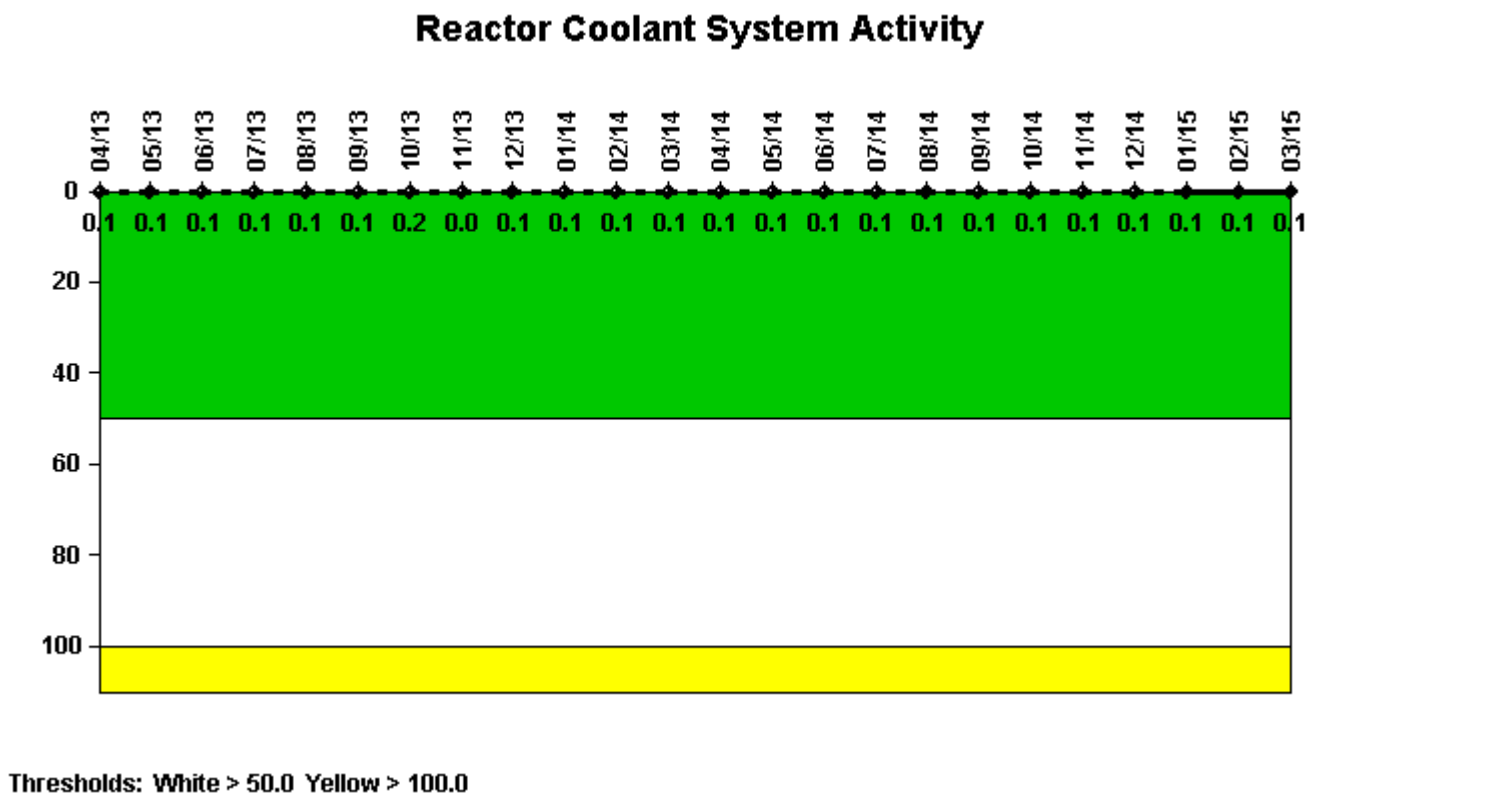
2Q/14: Failure No. 311011 on March 29 was added which changed the first quarter indicator with no change in color. See LER report No. 50-280/2014-001-00.

1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

2Q/13: Changed PRA Parameter(s).



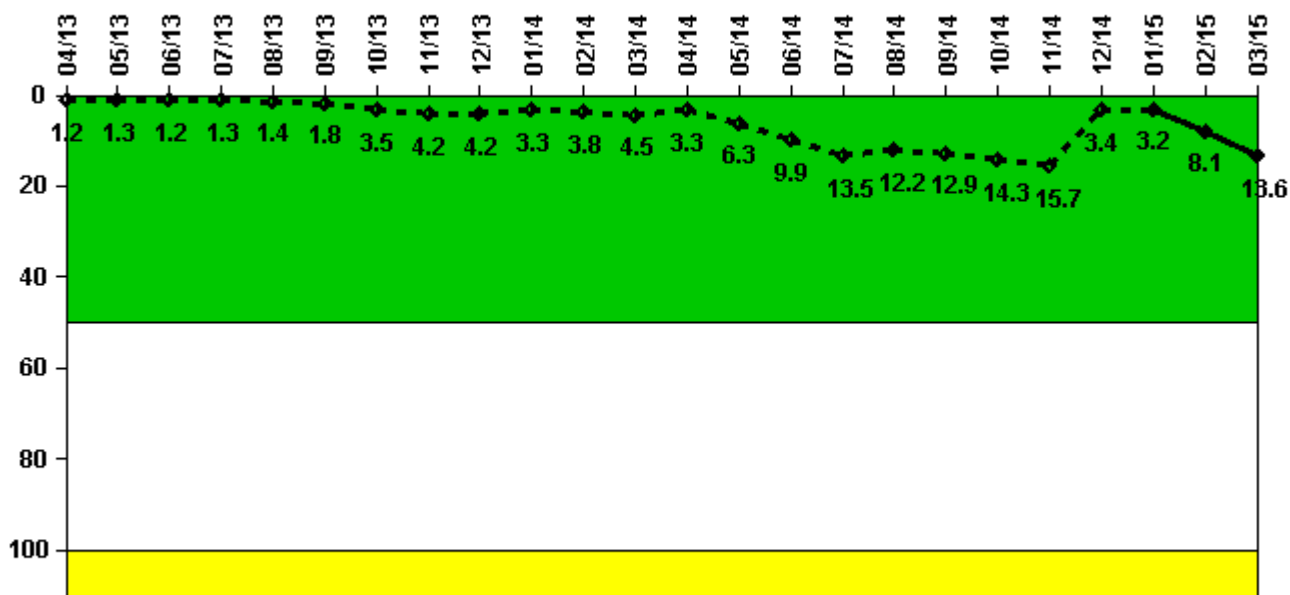
Notes

Reactor Coolant System												
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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	0.001090	0.001310	0.001280	0.001120	0.001320	0.001490	0.001580	0.000475	0.000601	0.000632	0.000631	0.000729
Technical specification limit	1.0	1.0	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	0.2	0	0.1	0.1	0.1	0.1
Reactor Coolant System Activity												
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	0.000749	0.000817	0.000839	0.000828	0.000910	0.000928	0.000929	0.001020	0.001030	0.001140	0.001110	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

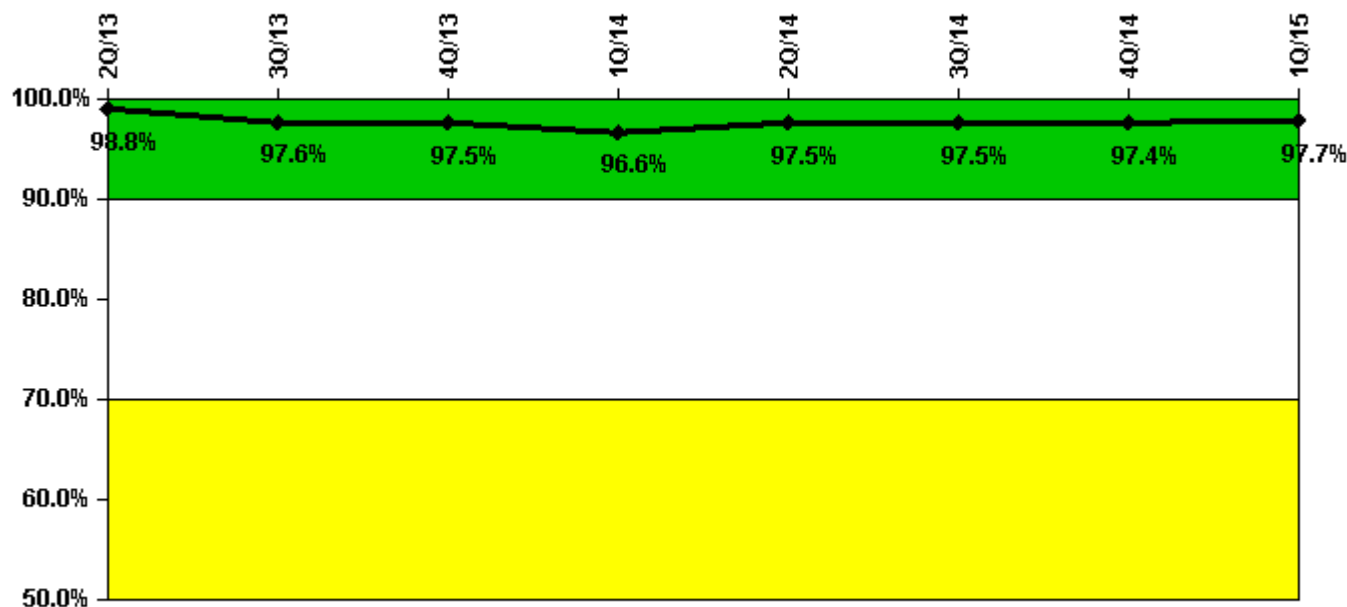
Notes

Reactor Coolant System Leakage	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	0.120	0.130	0.120	0.130	0.140	0.180	0.350	0.420	0.420	0.330	0.380	0.450
Technical specification limit	10.0	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	1.3	1.2	1.3	1.4	1.8	3.5	4.2	4.2	3.3	3.8	4.5
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	0.330	0.630	0.990	1.350	1.220	1.290	1.430	1.570	0.340	0.320	0.810	1.360
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.3	6.3	9.9	13.5	12.2	12.9	14.3	15.7	3.4	3.2	8.1	13.6

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September and November of 2012. The data has been corrected. This correction does not change the color of any performance indicators.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

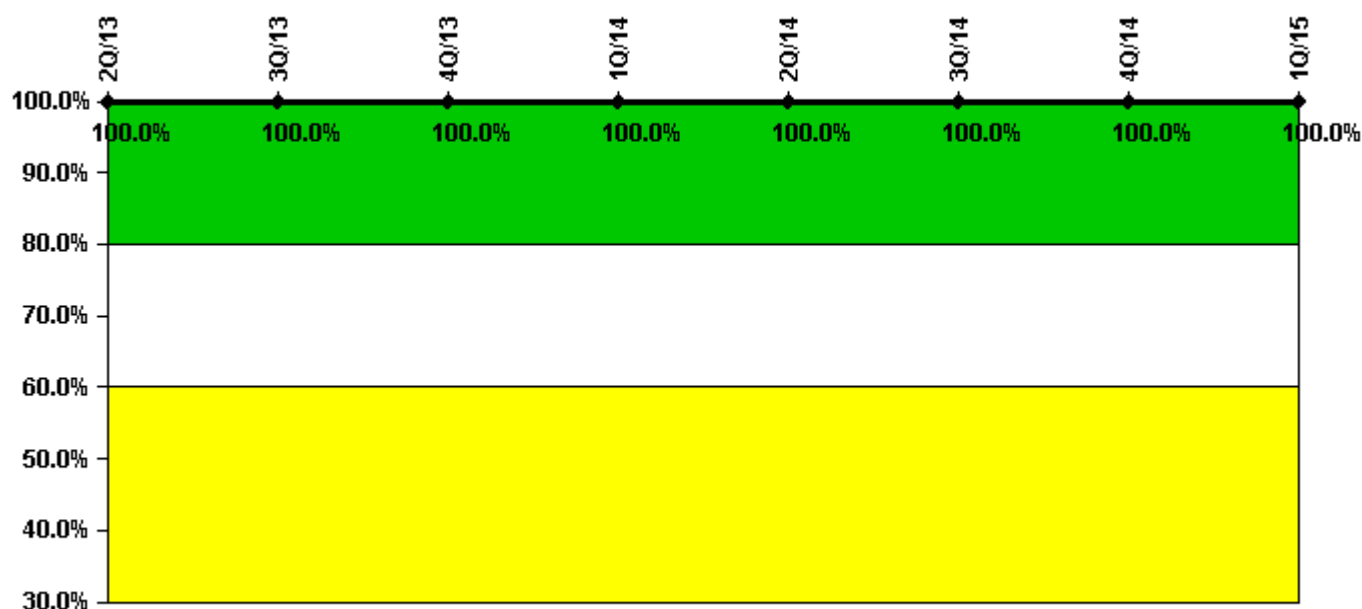
Drill/Exercise Performance	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15

Successful opportunities	22.0	28.0	14.0	36.0	28.0	33.0	19.0	31.0
Total opportunities	22.0	31.0	14.0	38.0	28.0	33.0	19.0	31.0
Indicator value	98.8%	97.6%	97.5%	96.6%	97.5%	97.5%	97.4%	97.7%

Licensee Comments:

3Q/14: Further review of a March 2014 ERO drill determined an initial successful DEP opportunity was not successful. Historical data was corrected with no change in color.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

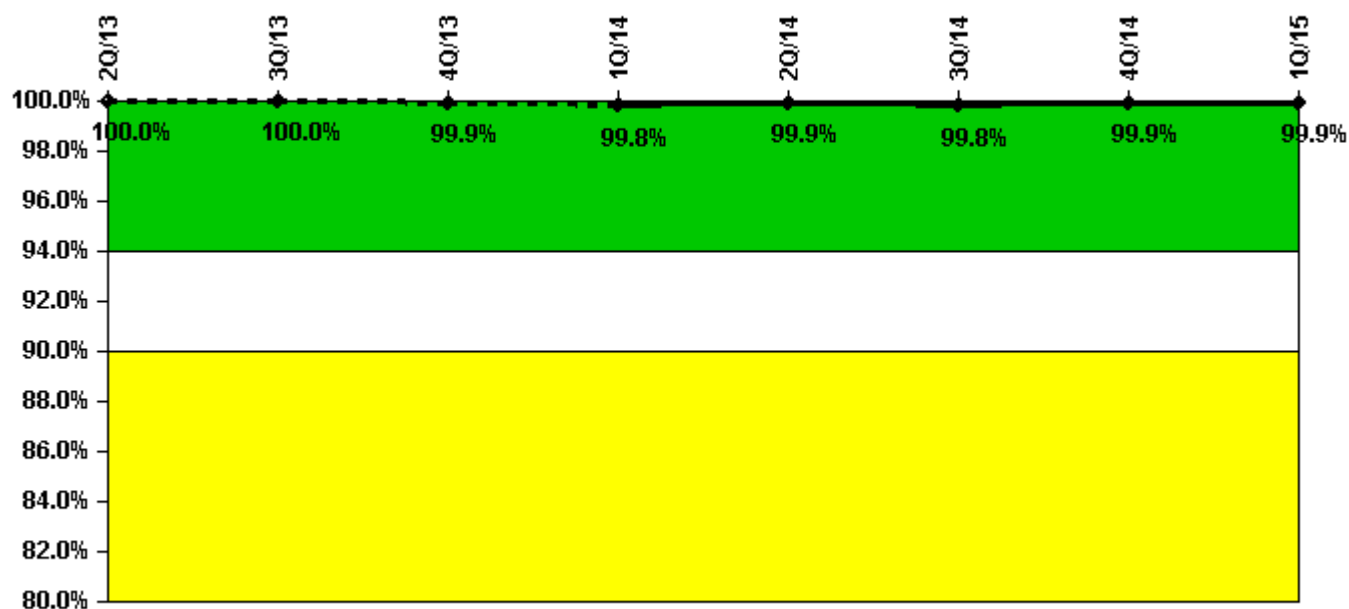
Notes

ERO Drill Participation	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Participating Key personnel	161.0	160.0	159.0	156.0	152.0	154.0	151.0	138.0
Total Key personnel	161.0	160.0	159.0	156.0	152.0	154.0	151.0	138.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

3Q/14: An assessment determined the total number of personnel in key ERO positions was inaccurate. Historical data was corrected with no change in color.

Alert & Notification System



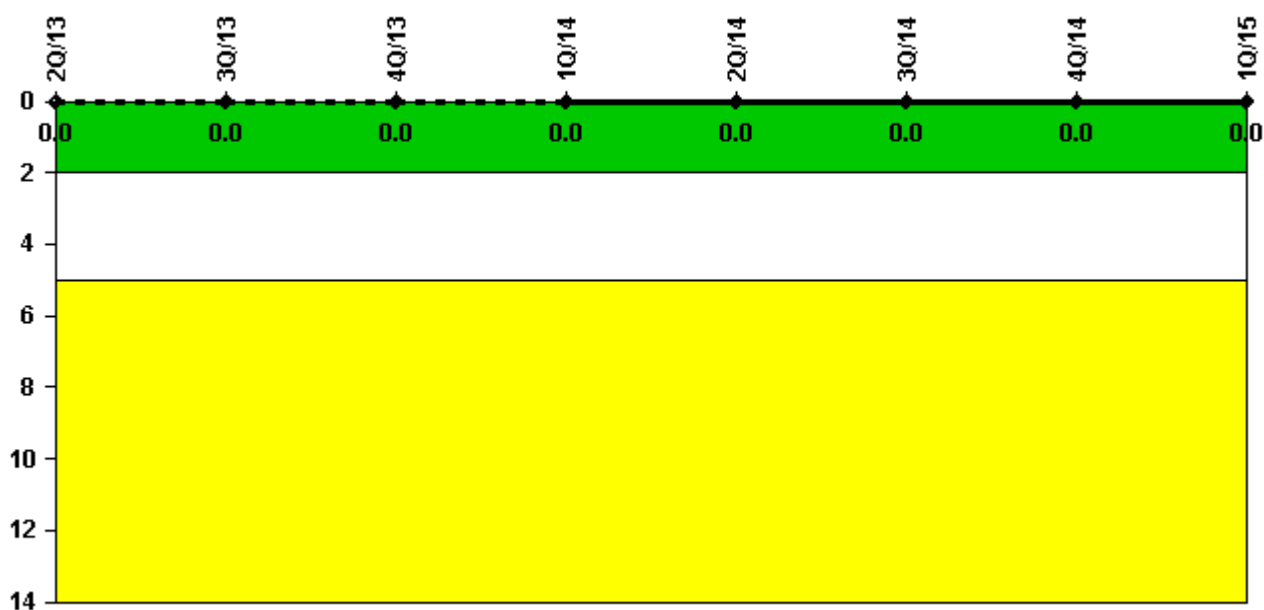
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful siren-tests	567	497	566	496	568	567	497	567
Total sirens-tests	568	497	568	497	568	568	497	568
Indicator value	100.0%	100.0%	99.9%	99.8%	99.9%	99.8%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness

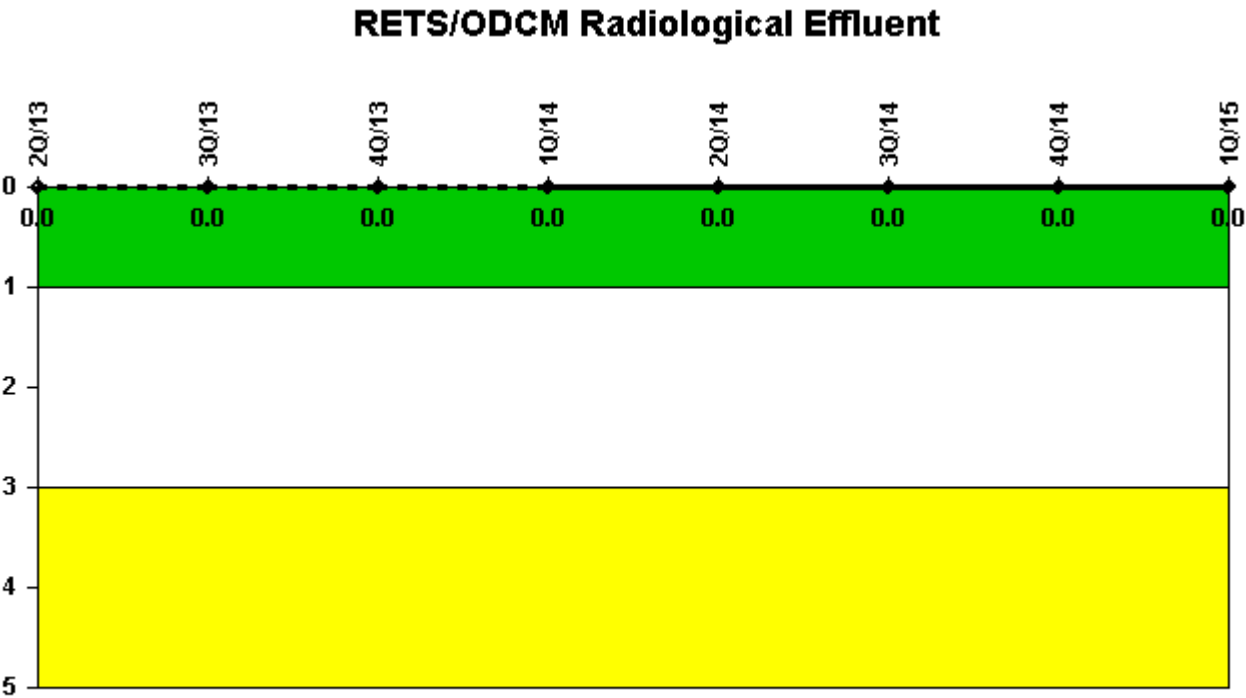


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

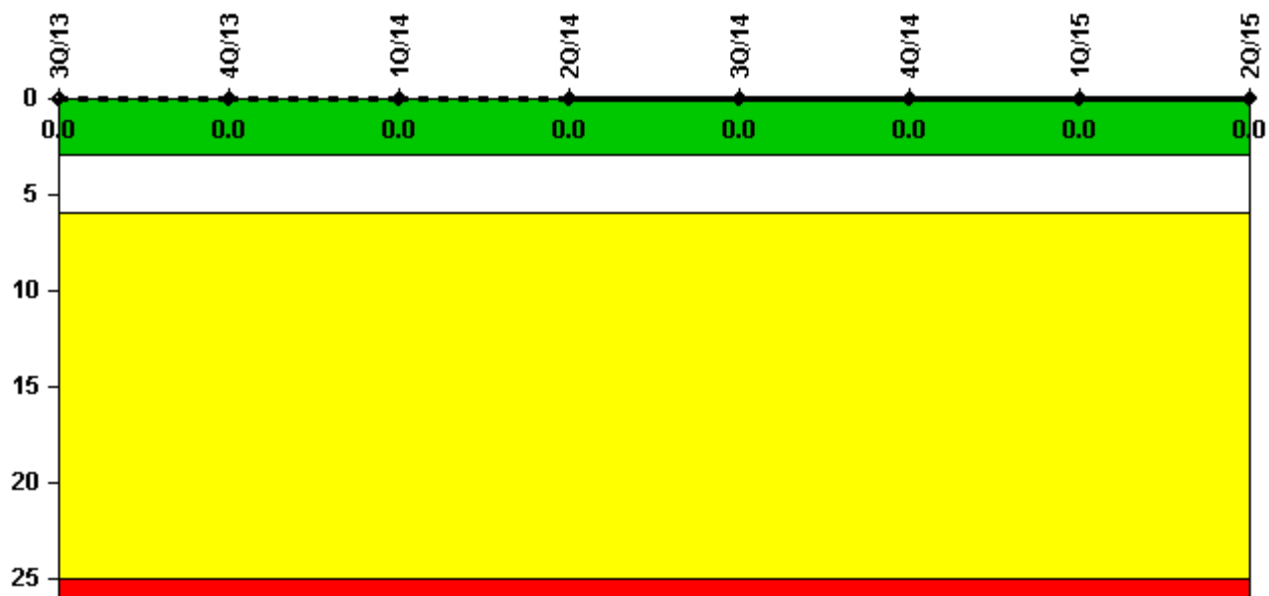
Surry 1

2Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



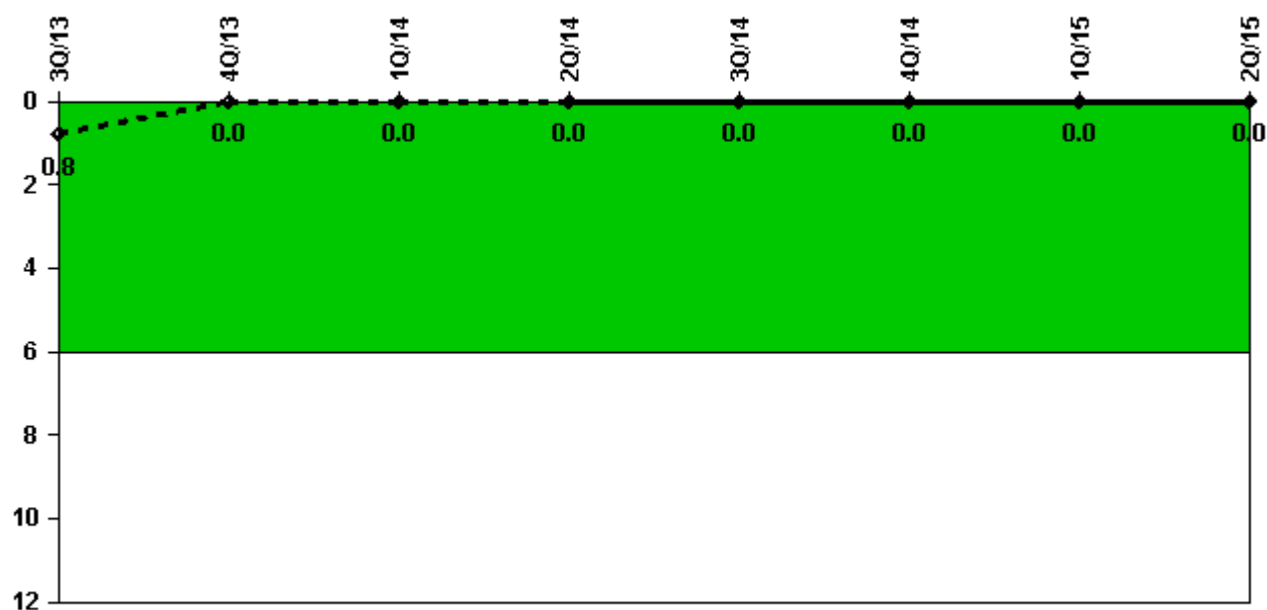
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	1450.9	2159.0	2184.0	2208.0	2209.0	2159.0	1272.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



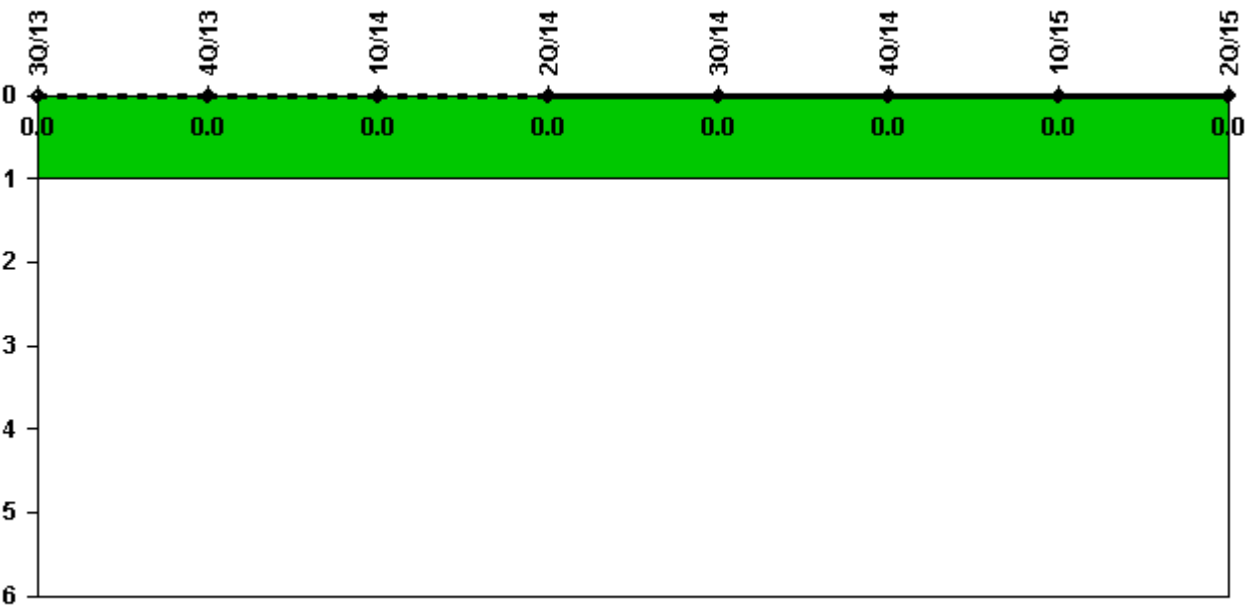
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	1450.9	2159.0	2184.0	2208.0	2209.0	2159.0	1272.0
Indicator value	0.8	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



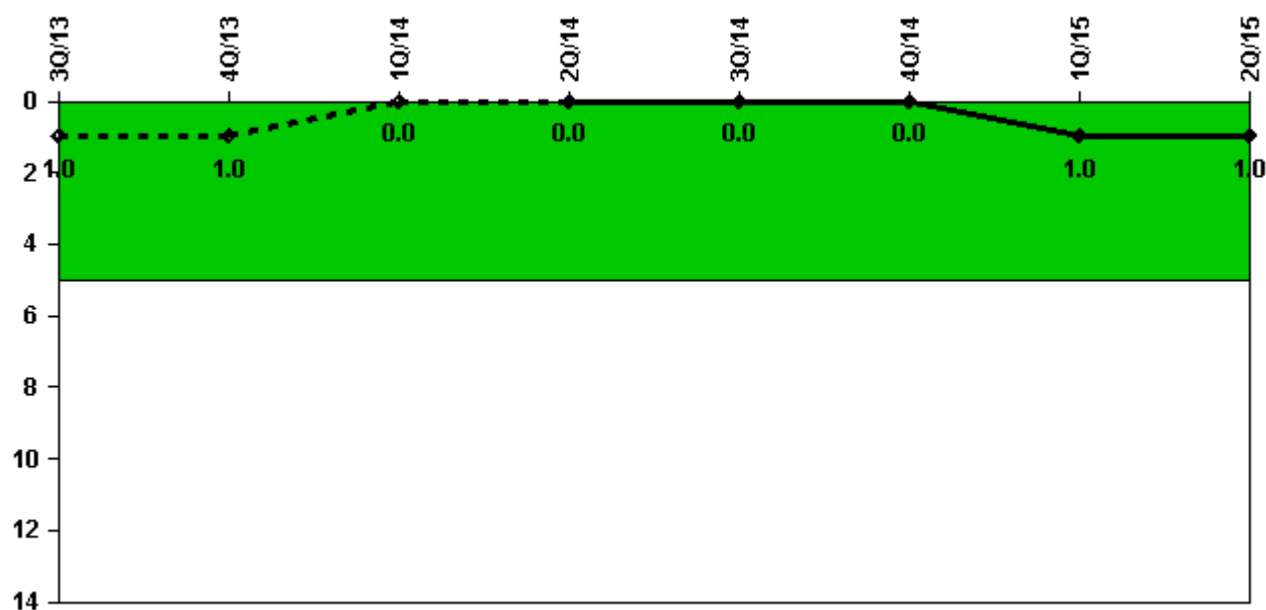
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

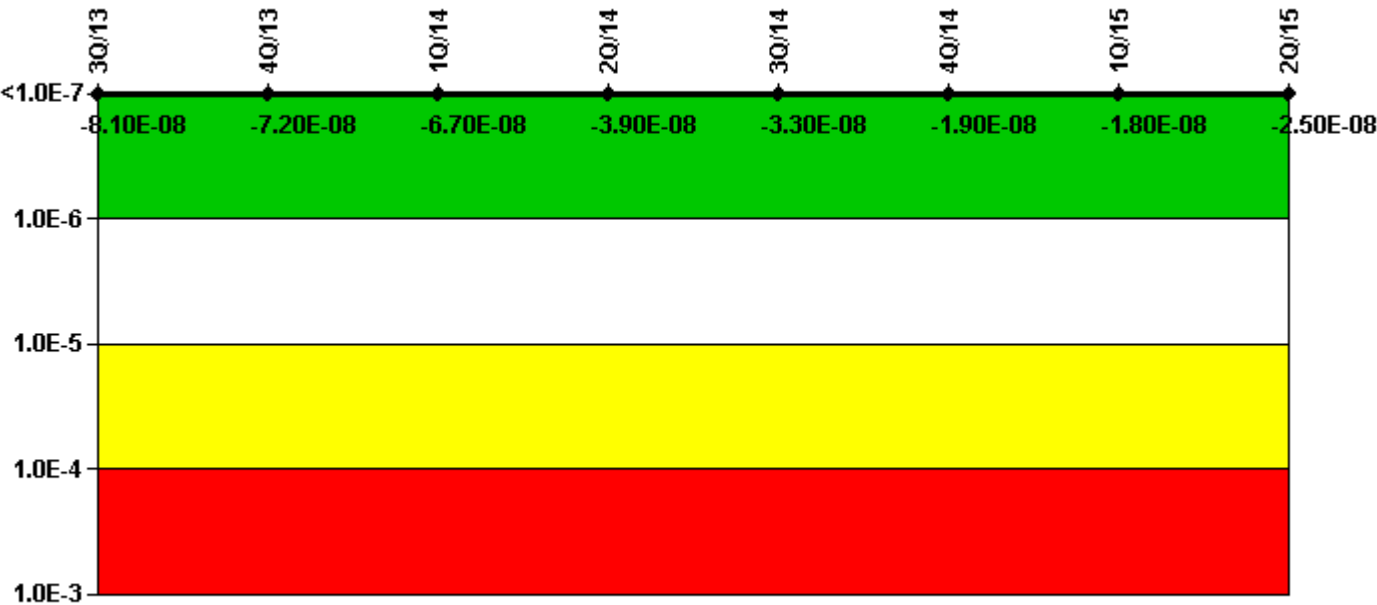
Notes

Safety System Functional Failures (PWR)	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Safety System Functional Failures	0	0	0	0	0	0	1	0
Indicator value	1	1	0	0	0	0	1	1

Licensee Comments:

2Q/15: An assessment revealed a SSFF for March 2015 (see LER 50-280, 50-281/2015-001-00). Historical data was corrected with no change in color.

Mitigating Systems Performance Index, Emergency AC Power System



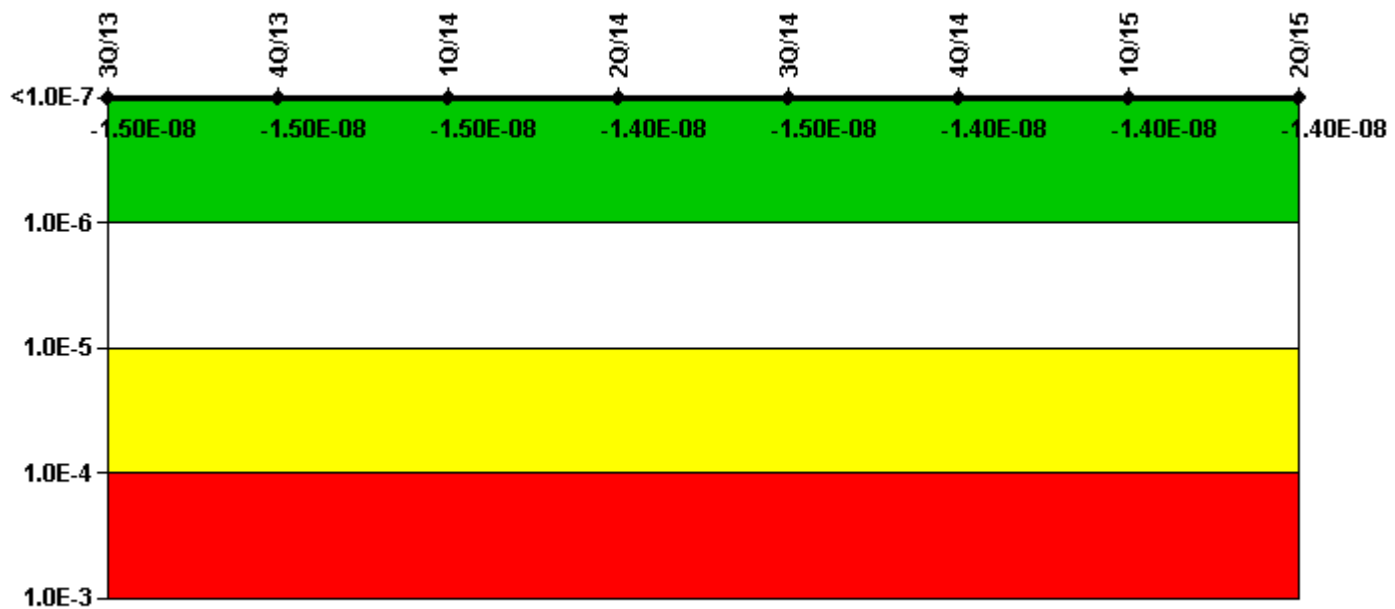
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-2.75E-09	-2.74E-09	-2.64E-09
URI (ΔCDF)	-6.70E-08	-5.84E-08	-5.33E-08	-2.55E-08	-1.96E-08	-1.61E-08	-1.50E-08	-2.24E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.10E-08	-7.20E-08	-6.70E-08	-3.90E-08	-3.30E-08	-1.90E-08	-1.80E-08	-2.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (Δ CDF)	-7.80E-10	-7.85E-10	-8.09E-10	-8.72E-10	-8.26E-10	-7.99E-10	-9.98E-10	-9.95E-10
URI (Δ CDF)	-1.41E-08	-1.39E-08	-1.39E-08	-1.36E-08	-1.38E-08	-1.36E-08	-1.32E-08	-1.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.50E-08	-1.50E-08	-1.40E-08	-1.50E-08	-1.40E-08	-1.40E-08	-1.40E-08

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

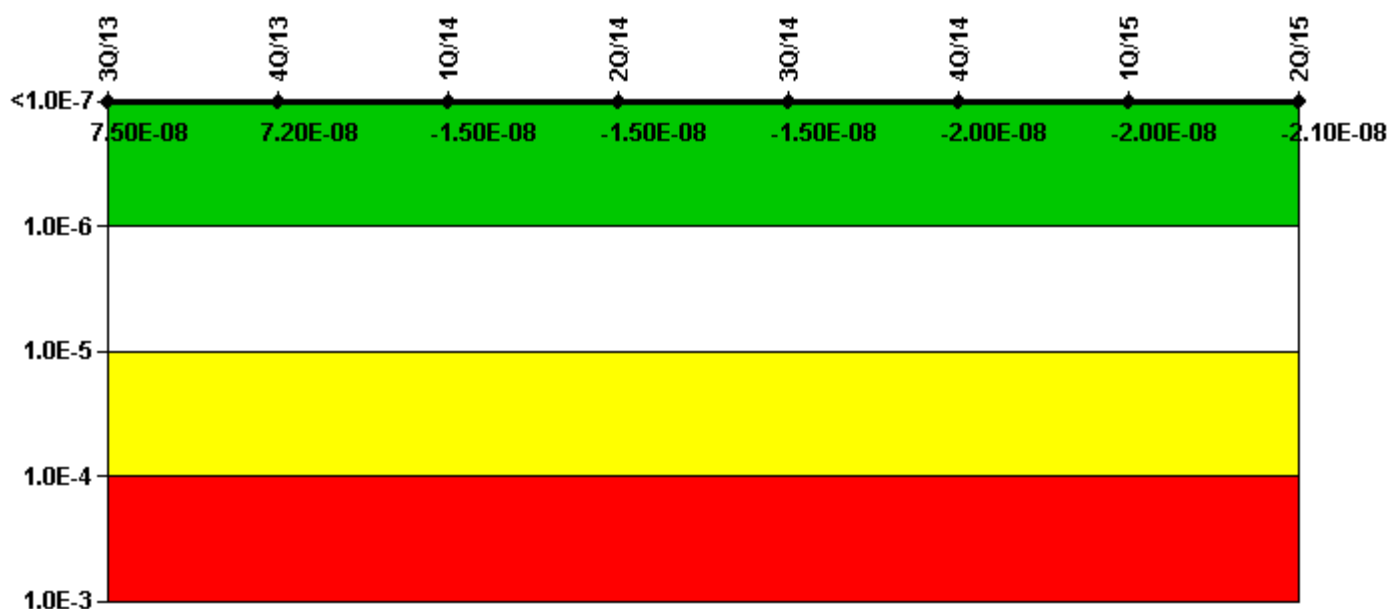
2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Heat Removal System



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

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (Δ CDF)	1.69E-09	2.32E-09	1.66E-09	1.25E-09	1.48E-09	-2.13E-09	-2.02E-09	-2.62E-09
URI (Δ CDF)	7.32E-08	6.96E-08	-1.63E-08	-1.63E-08	-1.69E-08	-1.74E-08	-1.79E-08	-1.79E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.50E-08	7.20E-08	-1.50E-08	-1.50E-08	-1.50E-08	-2.00E-08	-2.00E-08	-2.10E-08

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

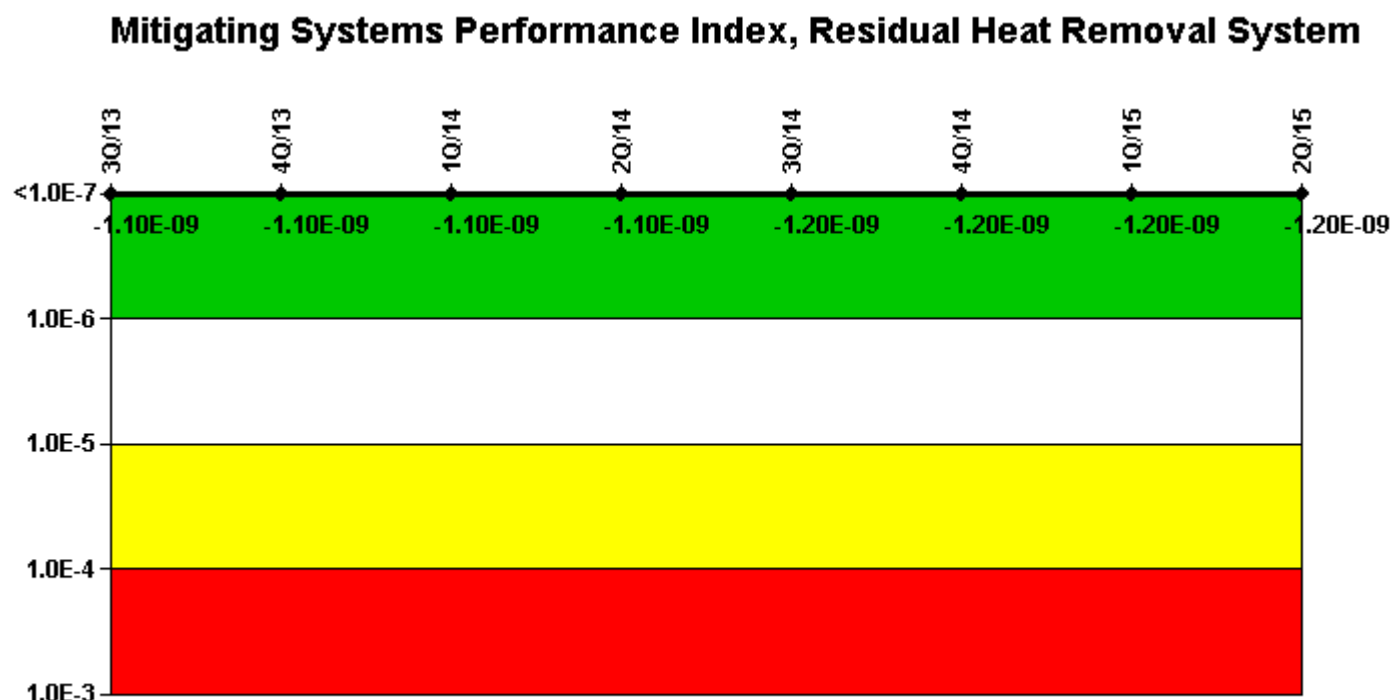
3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).



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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (Δ CDF)	-2.28E-10	-2.29E-10	-2.43E-10	-2.43E-10	-2.55E-10	-2.55E-10	-2.70E-10	-2.70E-10
URI (Δ CDF)	-8.96E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.27E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

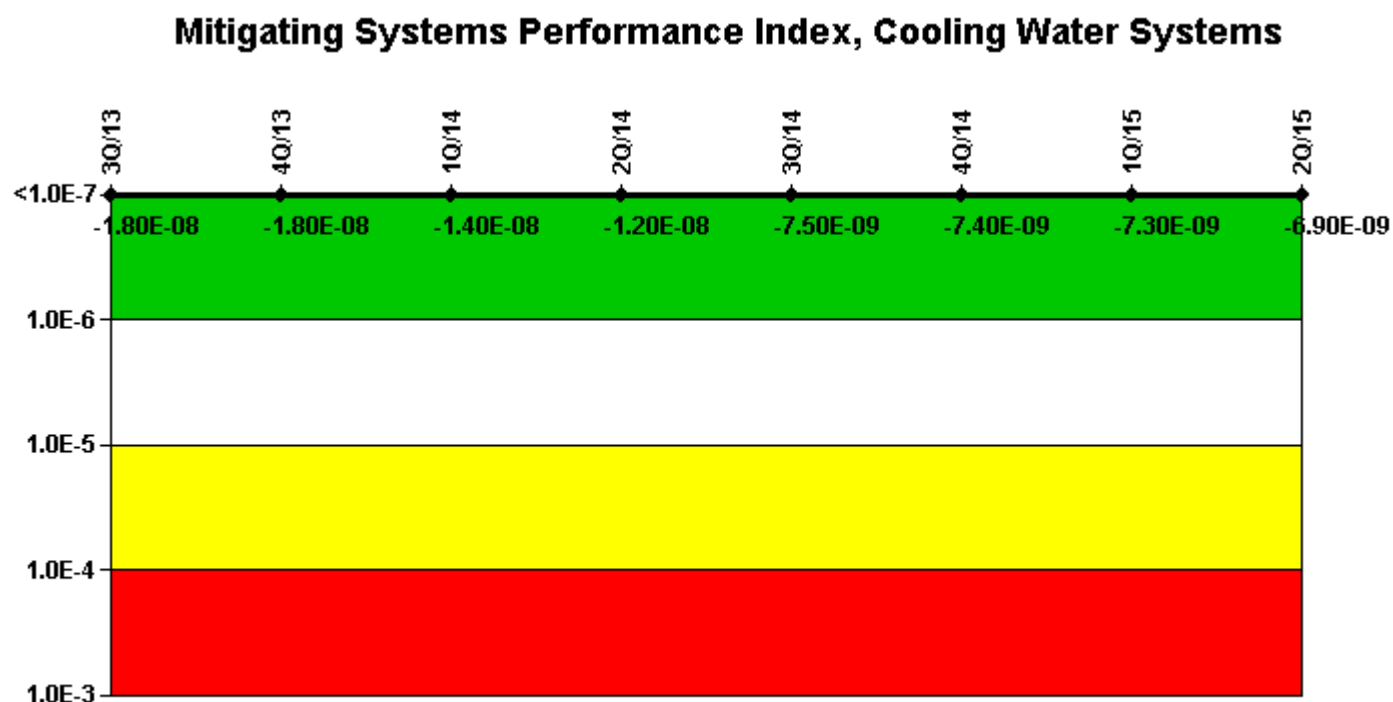
3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).



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)	1.59E-09	1.58E-09	1.27E-09	3.30E-09	3.04E-09	3.25E-09	3.15E-09	3.13E-09
URI (ΔCDF)	-2.01E-08	-1.99E-08	-1.53E-08	-1.49E-08	-1.05E-08	-1.07E-08	-1.05E-08	-1.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-1.80E-08	-1.40E-08	-1.20E-08	-7.50E-09	-7.40E-09	-7.30E-09	-6.90E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Failure No. 311011 on March 29 was added which changed the first quarter indicator with no change in color. See LER report No. 50-280/2014-001-00.

2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

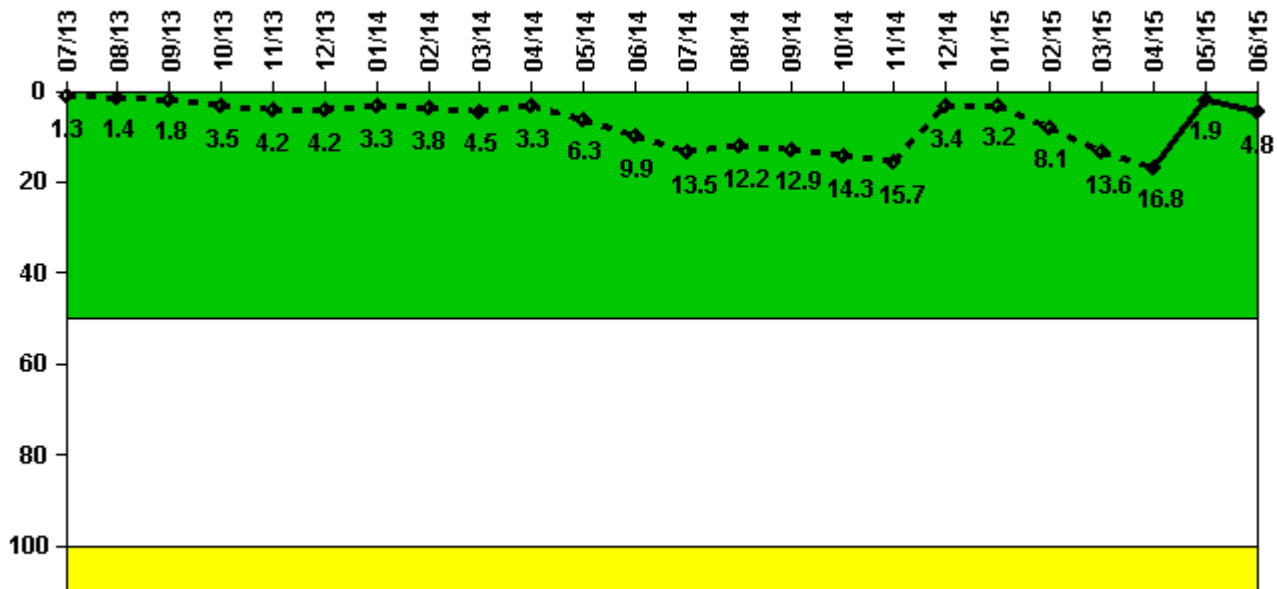
Notes

Reactor Coolant System Activity	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum activity	0.001120	0.001320	0.001490	0.001580	0.000475	0.000601	0.000632	0.000631	0.000729	0.000749	0.000817	0.000839
Technical specification limit	1.0	1.0	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum activity	0.000828	0.000910	0.000928	0.000929	0.001020	0.001030	0.001140	0.001110	0.001280	0.001190	0.000171	0.000544
Technical specification limit	1.0	1.0	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	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

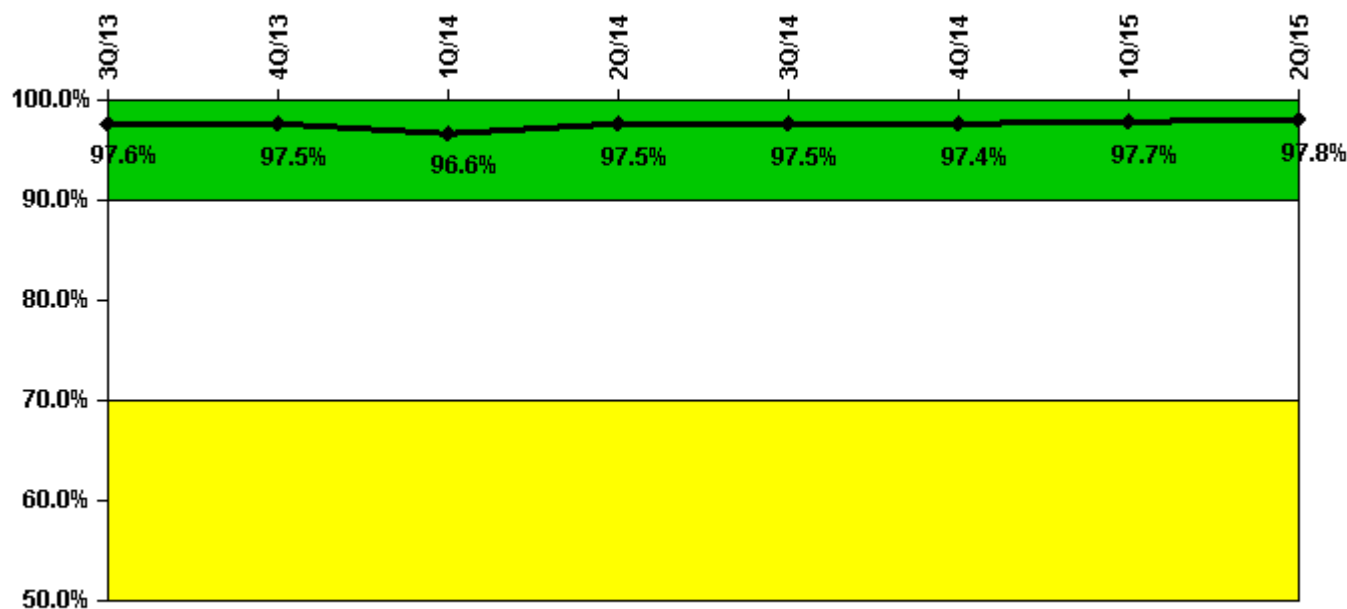
Notes

Reactor Coolant System Leakage	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum leakage	0.130	0.140	0.180	0.350	0.420	0.420	0.330	0.380	0.450	0.330	0.630	0.990
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Indicator value	1.3	1.4	1.8	3.5	4.2	4.2	3.3	3.8	4.5	3.3	6.3	9.9
Reactor Coolant System Leakage	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum leakage	1.350	1.220	1.290	1.430	1.570	0.340	0.320	0.810	1.360	1.680	0.190	0.480
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	13.5	12.2	12.9	14.3	15.7	3.4	3.2	8.1	13.6	16.8	1.9	4.8

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

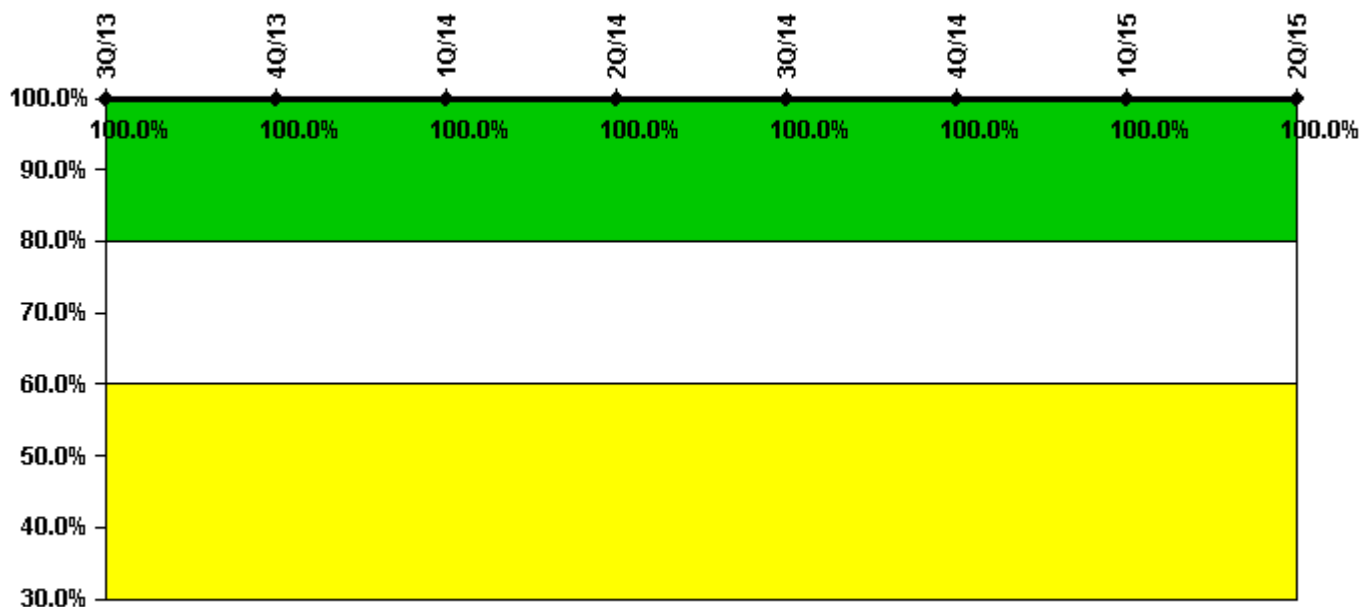
Notes

Drill/Exercise Performance	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful opportunities	28.0	14.0	36.0	28.0	33.0	19.0	31.0	31.0
Total opportunities	31.0	14.0	38.0	28.0	33.0	19.0	31.0	31.0
Indicator value	97.6%	97.5%	96.6%	97.5%	97.5%	97.4%	97.7%	97.8%

Licensee Comments:

3Q/14: Further review of a March 2014 ERO drill determined an initial successful DEP opportunity was not successful. Historical data was corrected with no change in color.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

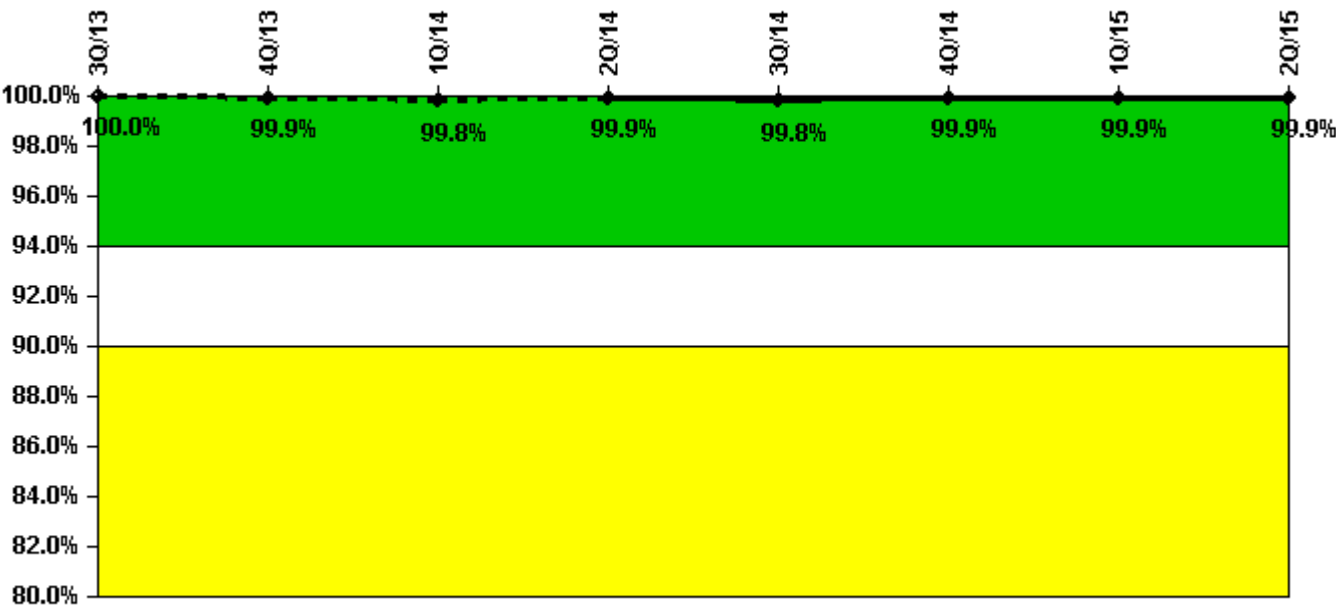
ERO Drill Participation	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Participating Key personnel	160.0	159.0	156.0	152.0	154.0	151.0	141.0	157.0
Total Key personnel	160.0	159.0	156.0	152.0	154.0	151.0	141.0	157.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/15: An assessment revealed additional key personnel for March 2015. Historical data was corrected with no change in color.

3Q/14: An assessment determined the total number of personnel in key ERO positions was inaccurate. Historical data was corrected with no change in color.

Alert & Notification System



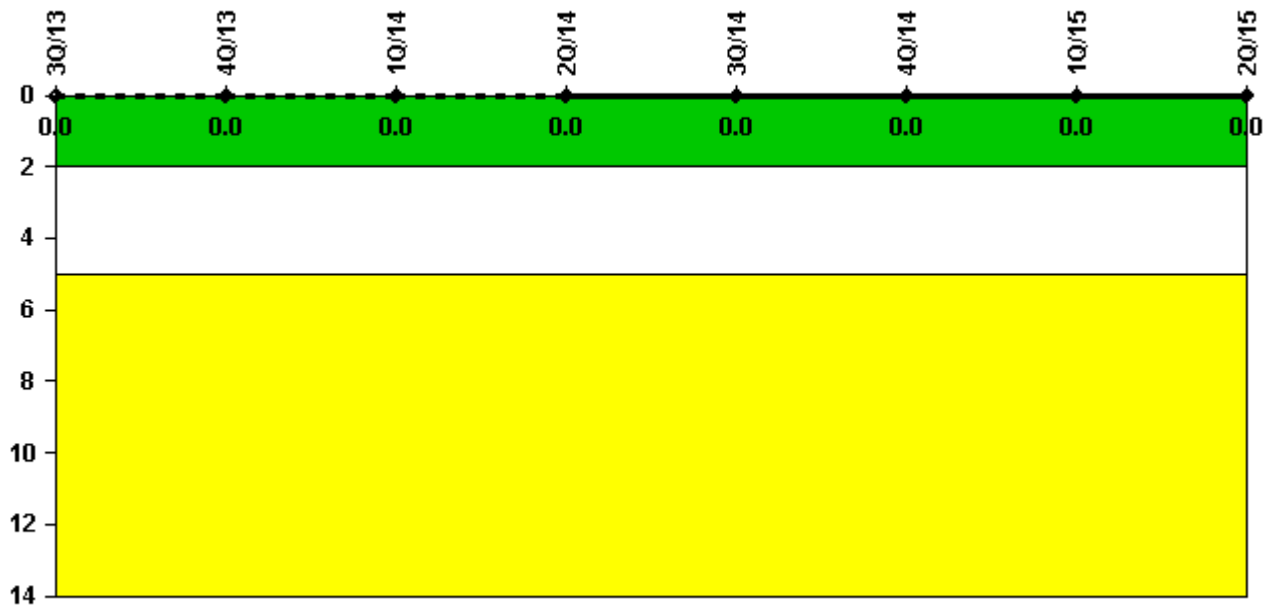
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful siren-tests	497	566	496	568	567	497	567	497
Total sirens-tests	497	568	497	568	568	497	568	497
Indicator value	100.0%	99.9%	99.8%	99.9%	99.8%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness

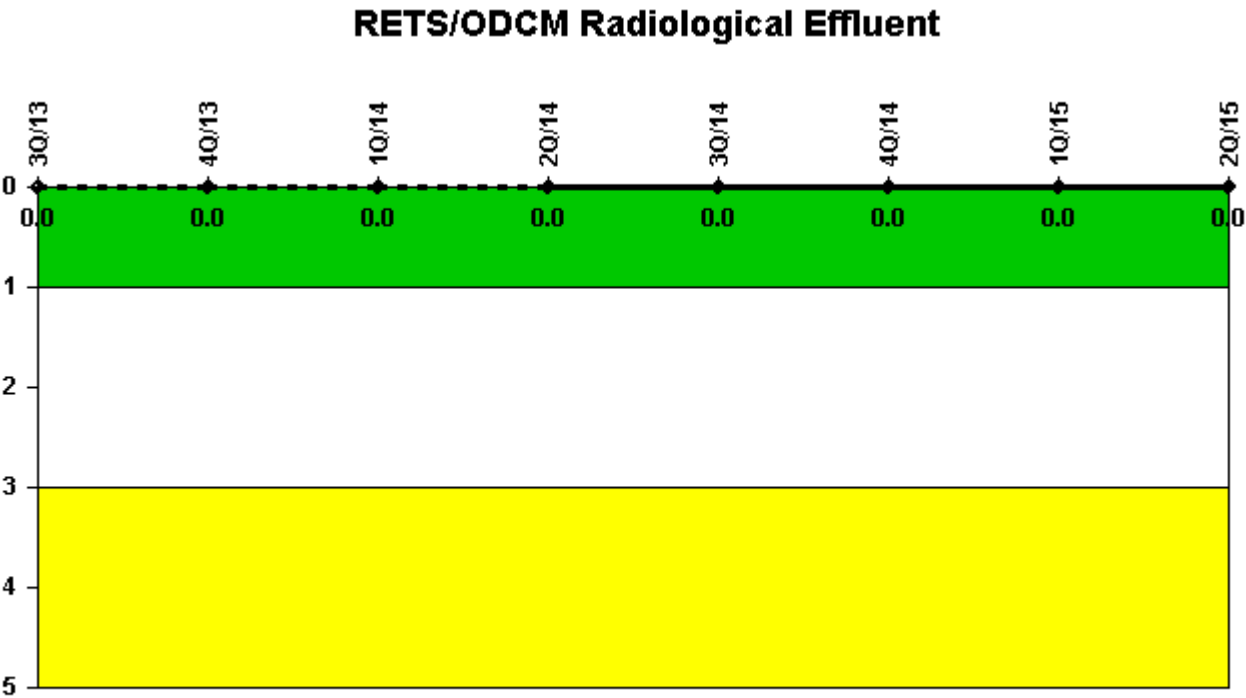


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

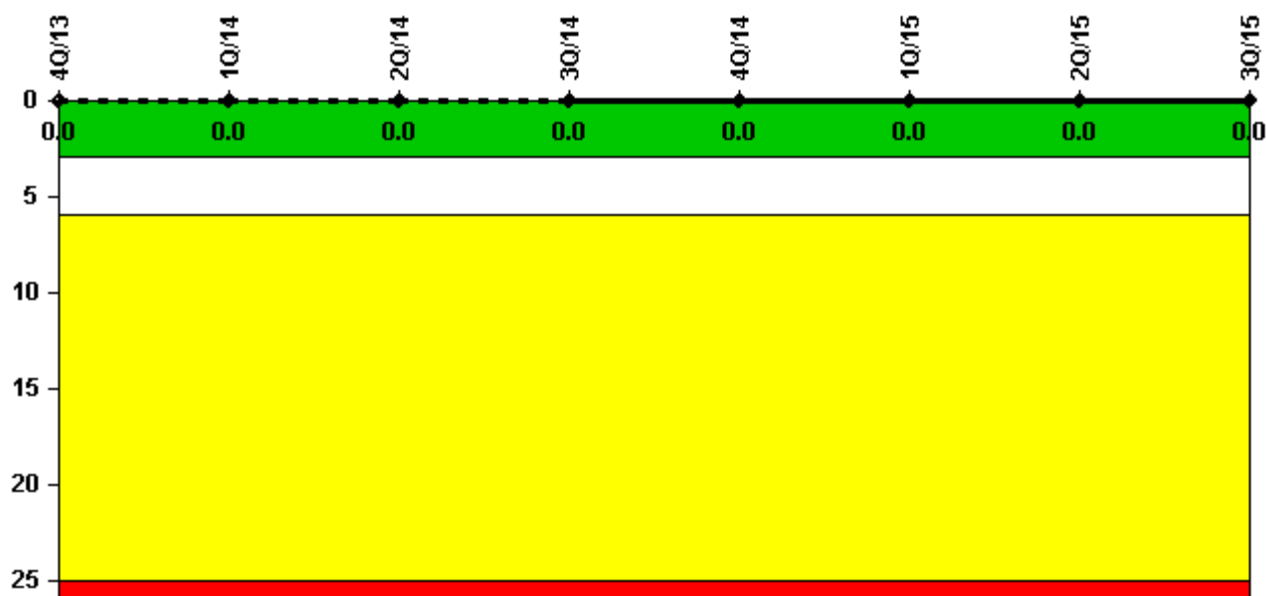
Surry 1

3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



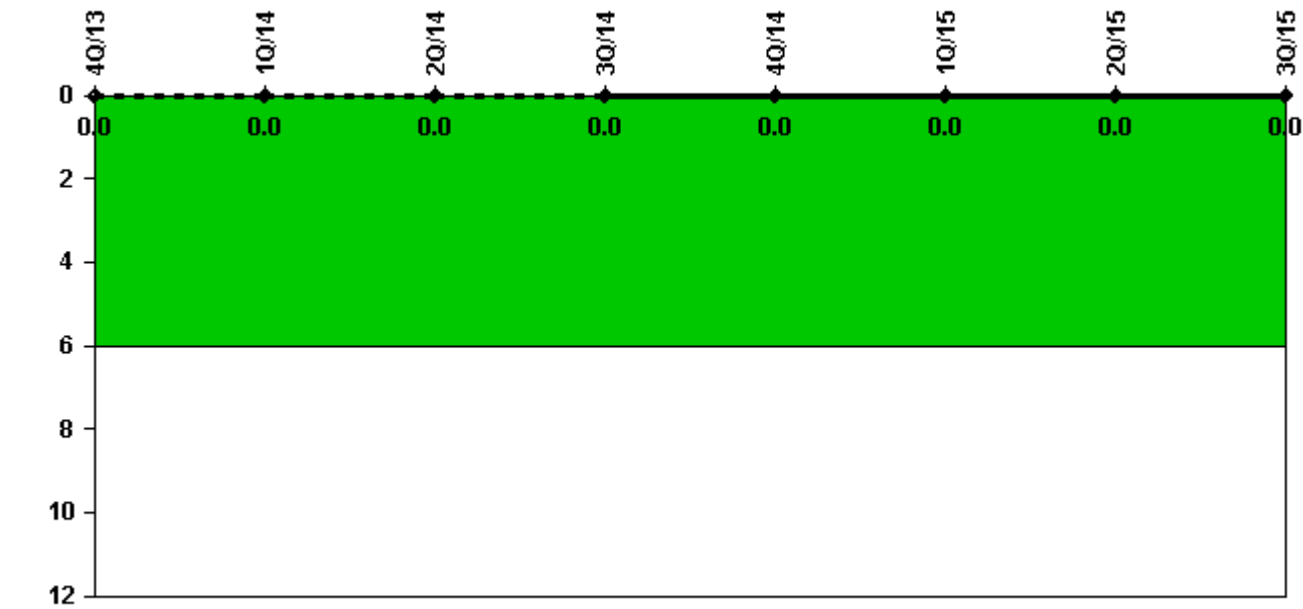
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1450.9	2159.0	2184.0	2208.0	2209.0	2159.0	1272.0	1952.3
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



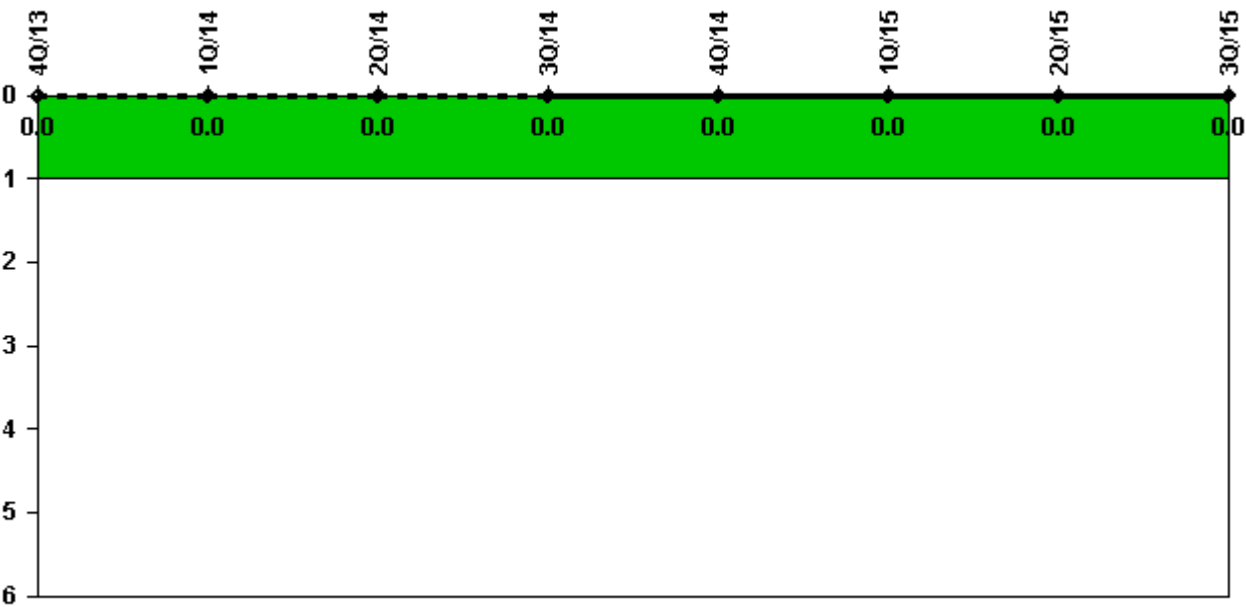
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1450.9	2159.0	2184.0	2208.0	2209.0	2159.0	1272.0	1952.3
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



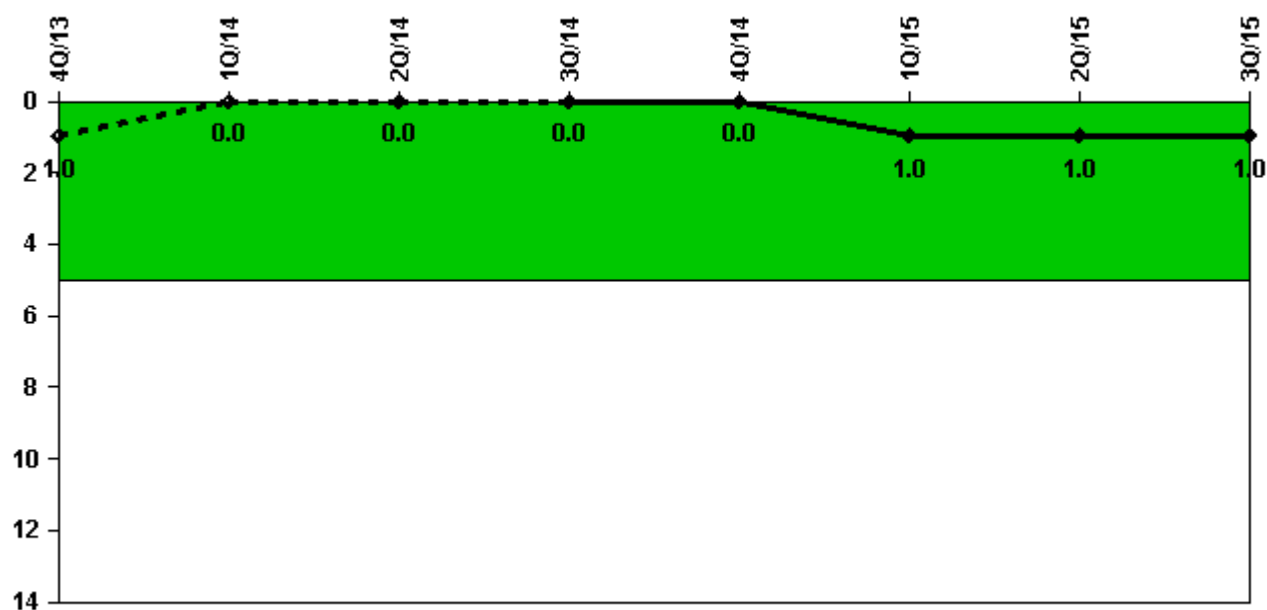
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

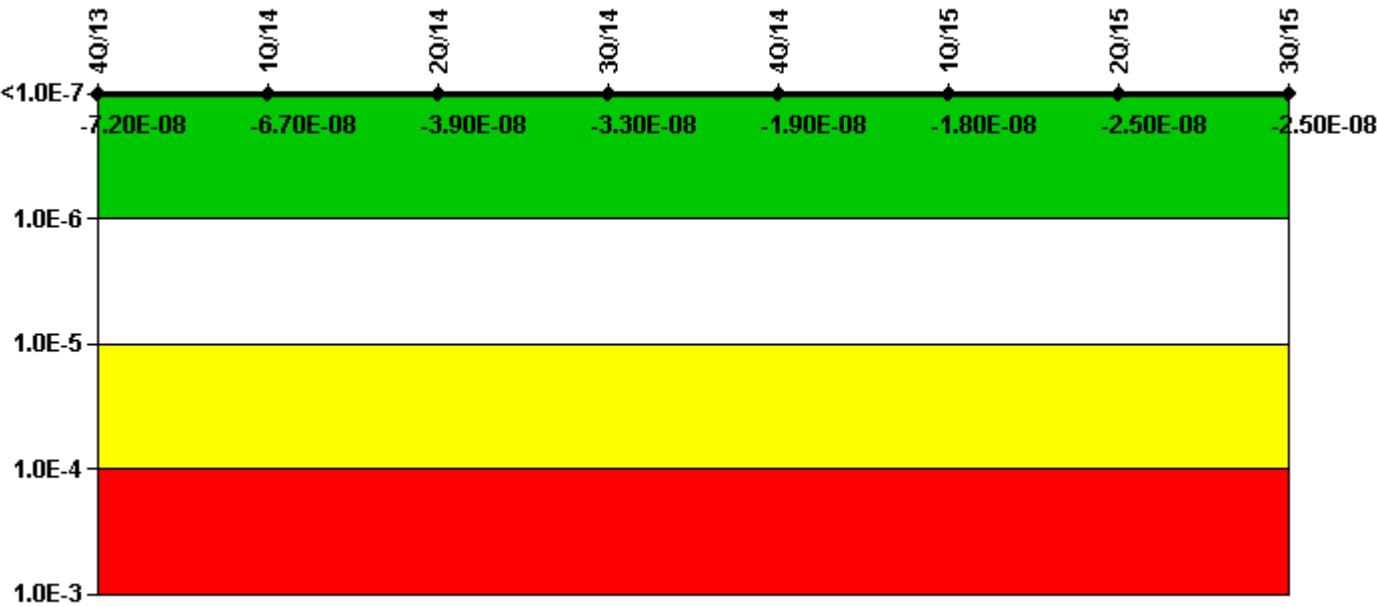
Notes

Safety System Functional Failures (PWR)	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Safety System Functional Failures	0	0	0	0	0	1	0	0
Indicator value	1	0	0	0	0	1	1	1

Licensee Comments:

2Q/15: An assessment revealed a SSFF for March 2015 (see LER 50-280, 50-281/2015-001-00). Historical data was corrected with no change in color.

Mitigating Systems Performance Index, Emergency AC Power System



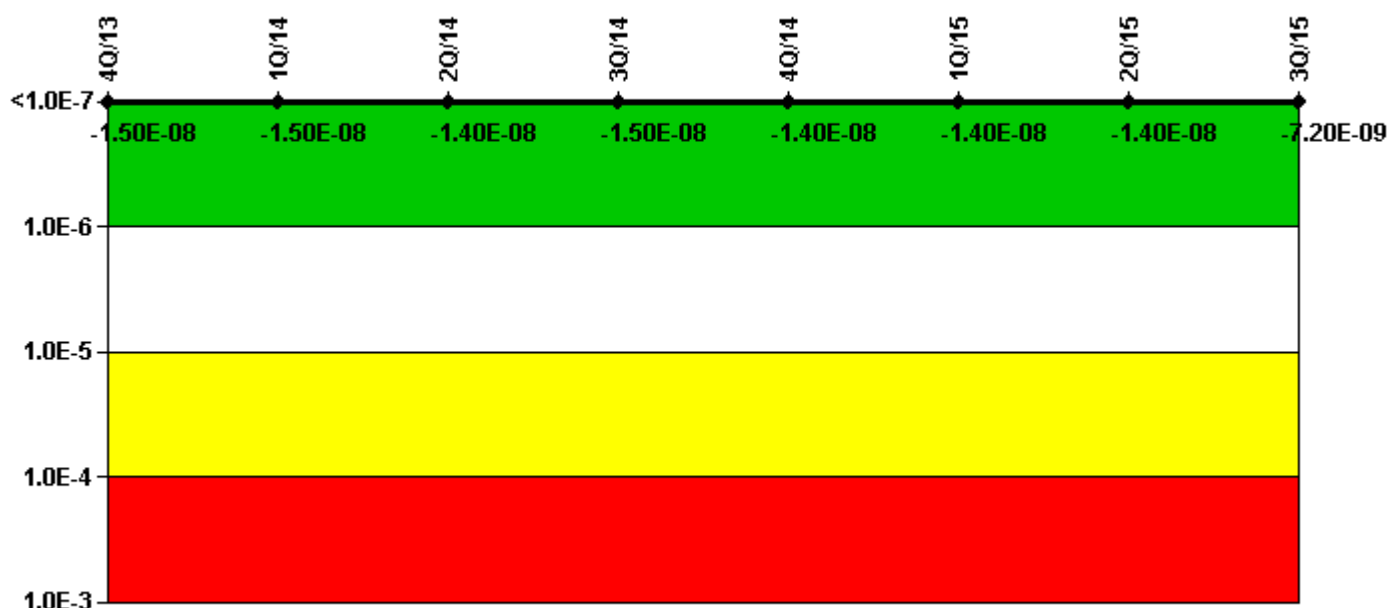
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (ΔCDF)	-1.39E-08	-1.39E-08	-1.39E-08	-1.39E-08	-2.75E-09	-2.74E-09	-2.64E-09	-2.49E-09
URI (ΔCDF)	-5.84E-08	-5.33E-08	-2.55E-08	-1.96E-08	-1.61E-08	-1.50E-08	-2.24E-08	-2.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.20E-08	-6.70E-08	-3.90E-08	-3.30E-08	-1.90E-08	-1.80E-08	-2.50E-08	-2.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	-7.85E-10	-8.09E-10	-8.72E-10	-8.26E-10	-7.99E-10	-9.98E-10	-9.95E-10	-9.71E-10
URI (Δ CDF)	-1.39E-08	-1.39E-08	-1.36E-08	-1.38E-08	-1.36E-08	-1.32E-08	-1.27E-08	-6.25E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.50E-08	-1.40E-08	-1.50E-08	-1.40E-08	-1.40E-08	-1.40E-08	-7.20E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

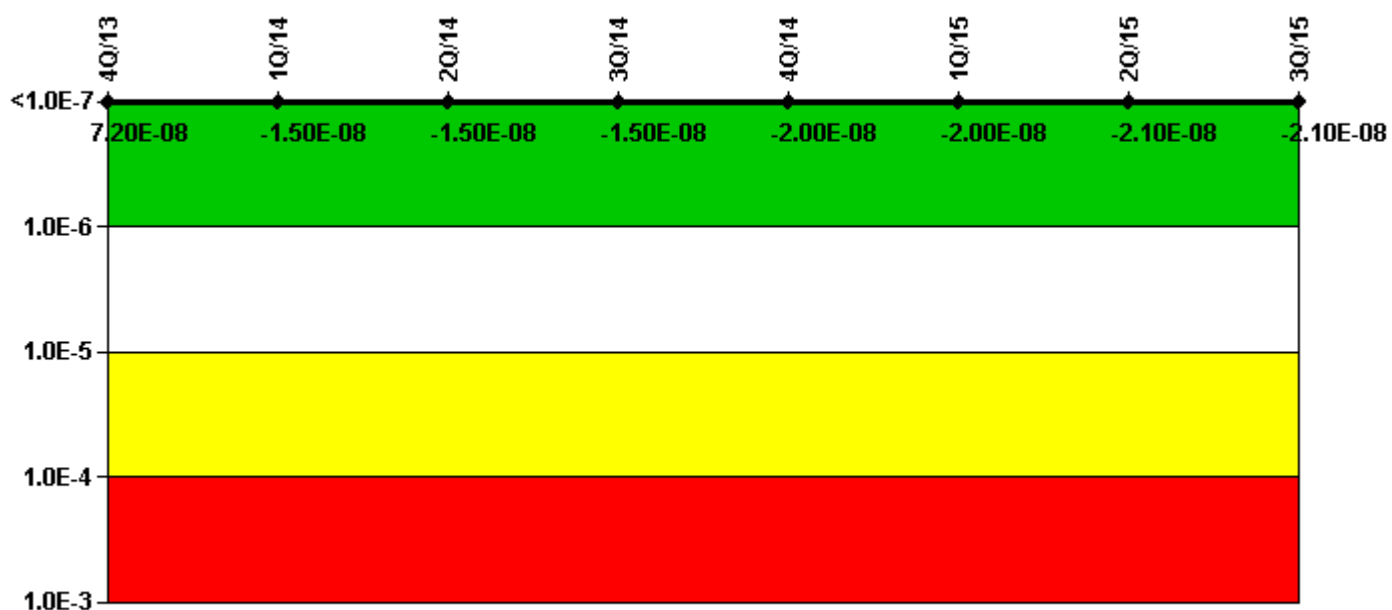
3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

4Q/13: 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	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	2.32E-09	1.66E-09	1.25E-09	1.48E-09	-2.13E-09	-2.02E-09	-2.62E-09	-2.31E-09
URI (Δ CDF)	6.96E-08	-1.63E-08	-1.63E-08	-1.69E-08	-1.74E-08	-1.79E-08	-1.79E-08	-1.85E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.20E-08	-1.50E-08	-1.50E-08	-1.50E-08	-2.00E-08	-2.00E-08	-2.10E-08	-2.10E-08

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

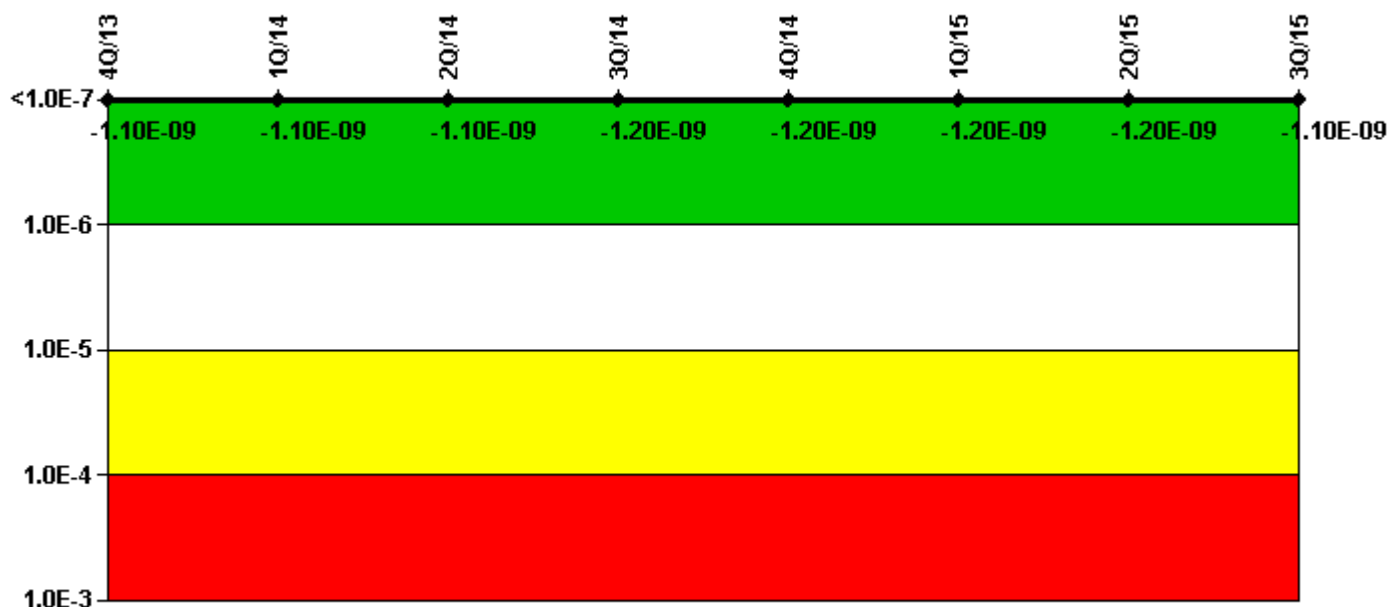
3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	-2.29E-10	-2.43E-10	-2.43E-10	-2.55E-10	-2.55E-10	-2.70E-10	-2.70E-10	-1.41E-10
URI (Δ CDF)	-9.03E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.27E-10	-9.46E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-09	-1.10E-09	-1.10E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.10E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

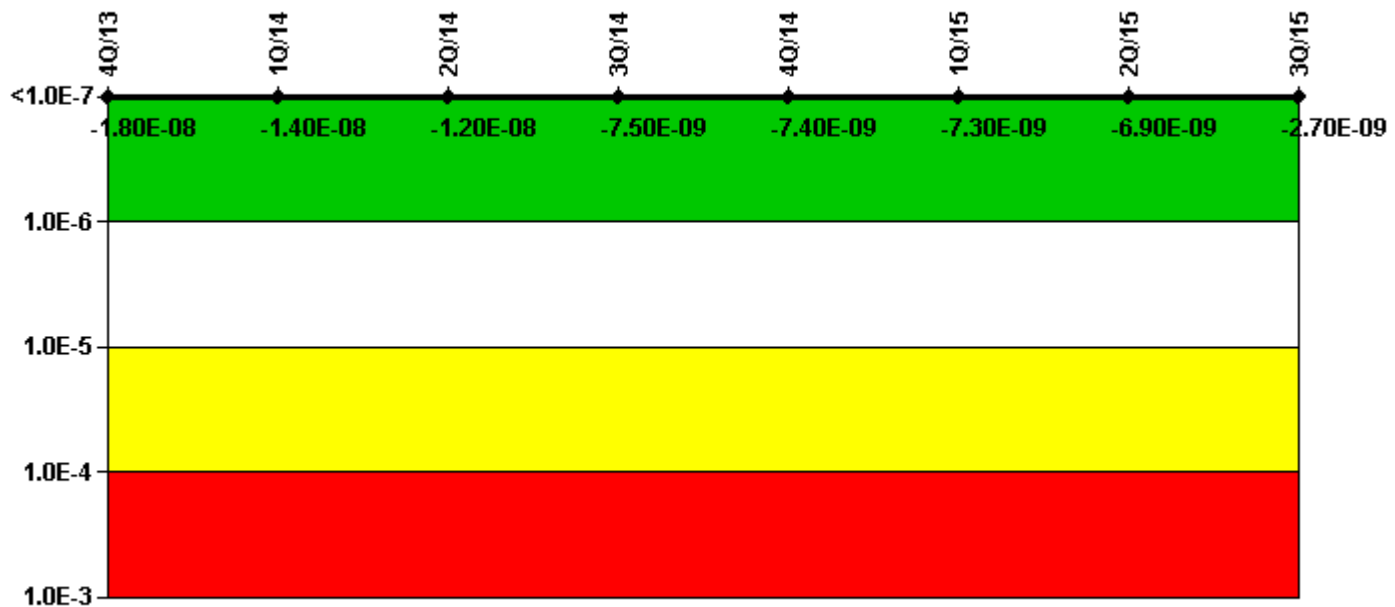
3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (ΔCDF)	1.58E-09	1.27E-09	3.30E-09	3.04E-09	3.25E-09	3.15E-09	3.13E-09	3.12E-09
URI (ΔCDF)	-1.99E-08	-1.53E-08	-1.49E-08	-1.05E-08	-1.07E-08	-1.05E-08	-1.00E-08	-5.83E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-1.40E-08	-1.20E-08	-7.50E-09	-7.40E-09	-7.30E-09	-6.90E-09	-2.70E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

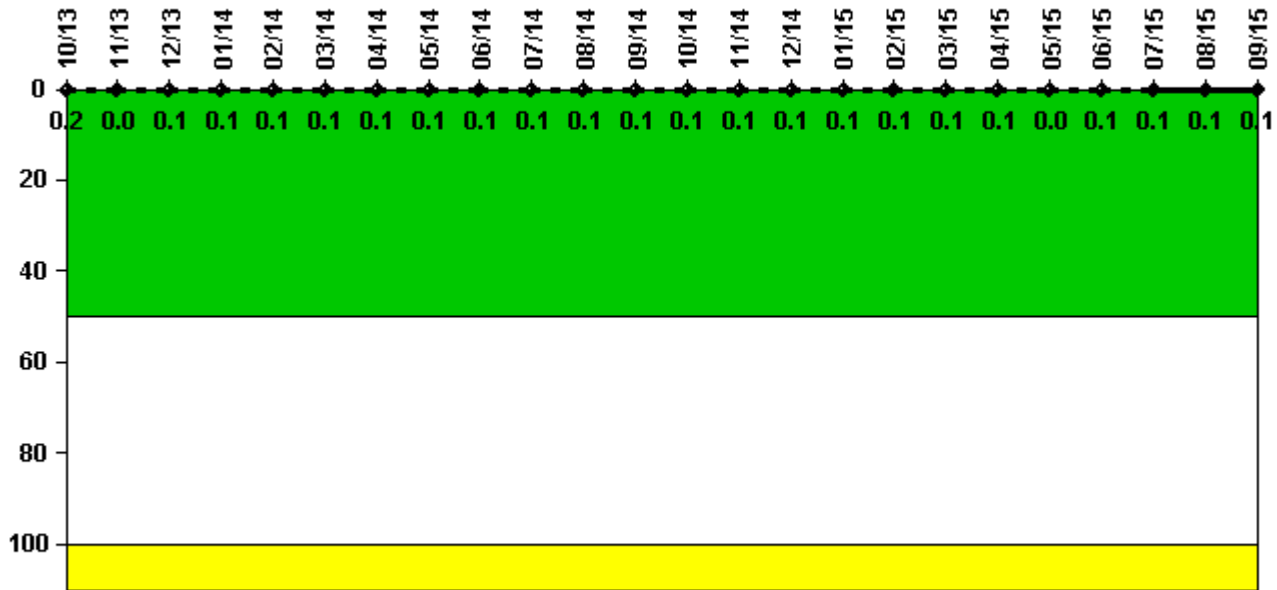
2Q/14: Failure No. 311011 on March 29 was added which changed the first quarter indicator with no change in color. See LER report No. 50-280/2014-001-00.

2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

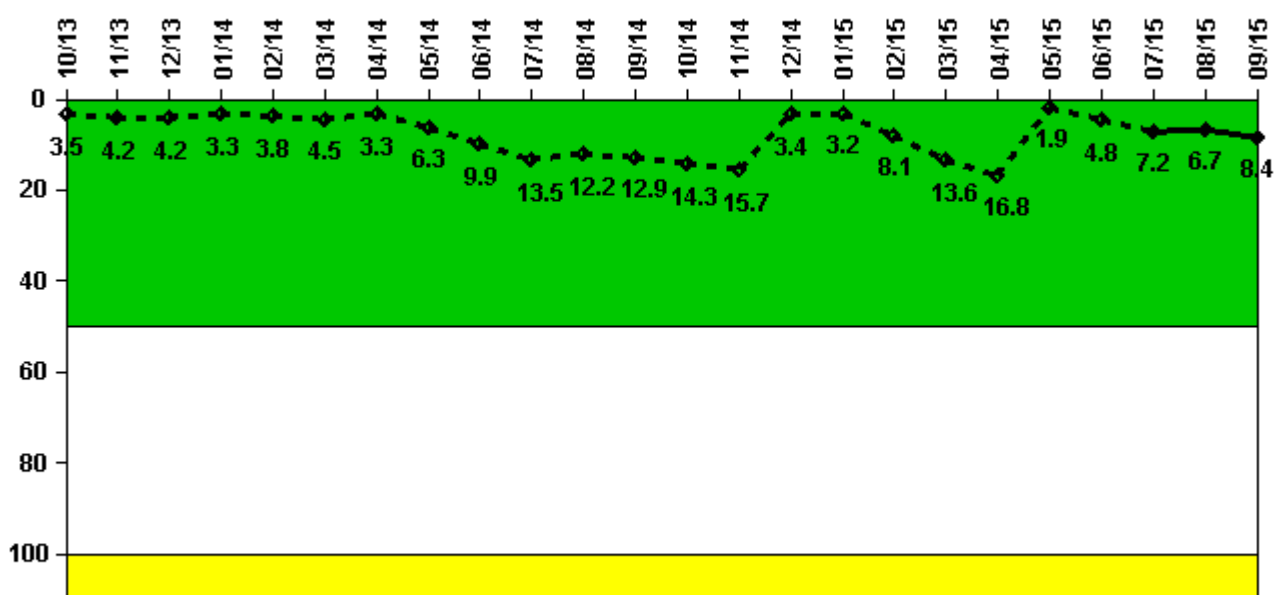
Notes

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	0.001580	0.000475	0.000601	0.000632	0.000631	0.000729	0.000749	0.000817	0.000839	0.000828	0.000910	0.000928
Technical specification limit	1.0	1.0	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum activity	0.000929	0.001020	0.001030	0.001140	0.001110	0.001280	0.001190	0.000171	0.000544	0.000573	0.000576	0.000710
Technical												

specification limit	1.0	1.0	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	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



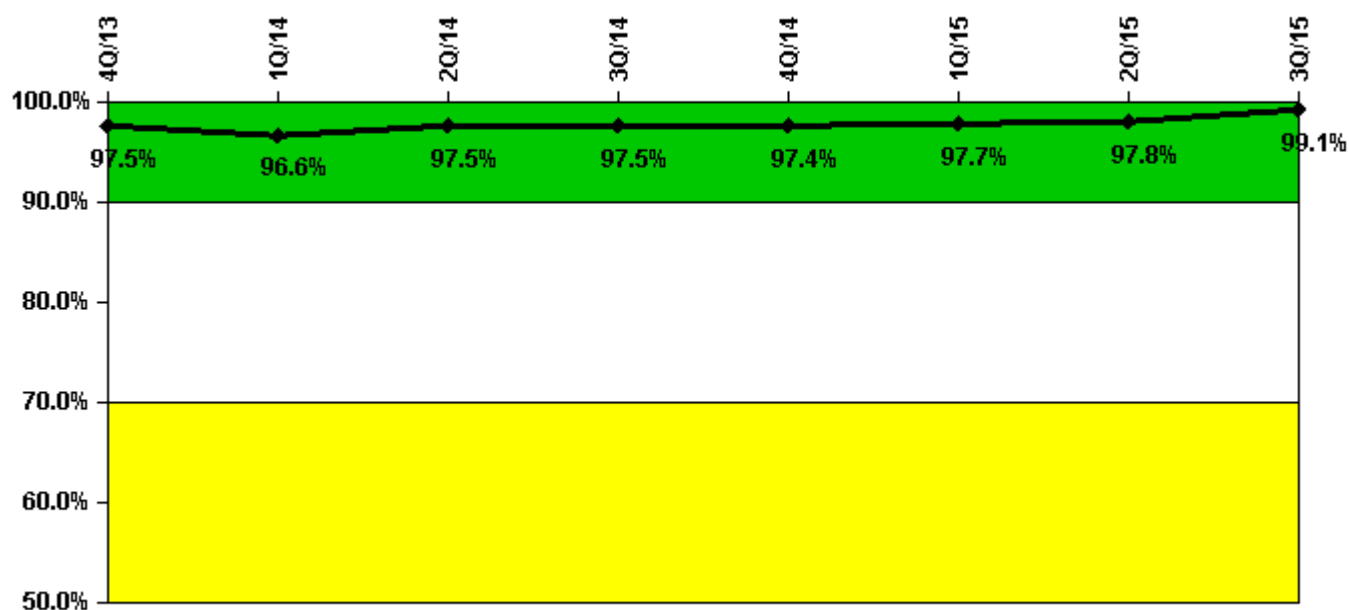
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum leakage	0.350	0.420	0.420	0.330	0.380	0.450	0.330	0.630	0.990	1.350	1.220	1.290
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.5	4.2	4.2	3.3	3.8	4.5	3.3	6.3	9.9	13.5	12.2	12.9
Reactor Coolant System Leakage	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum leakage	1.430	1.570	0.340	0.320	0.810	1.360	1.680	0.190	0.480	0.720	0.670	0.840
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	14.3	15.7	3.4	3.2	8.1	13.6	16.8	1.9	4.8	7.2	6.7	8.4

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

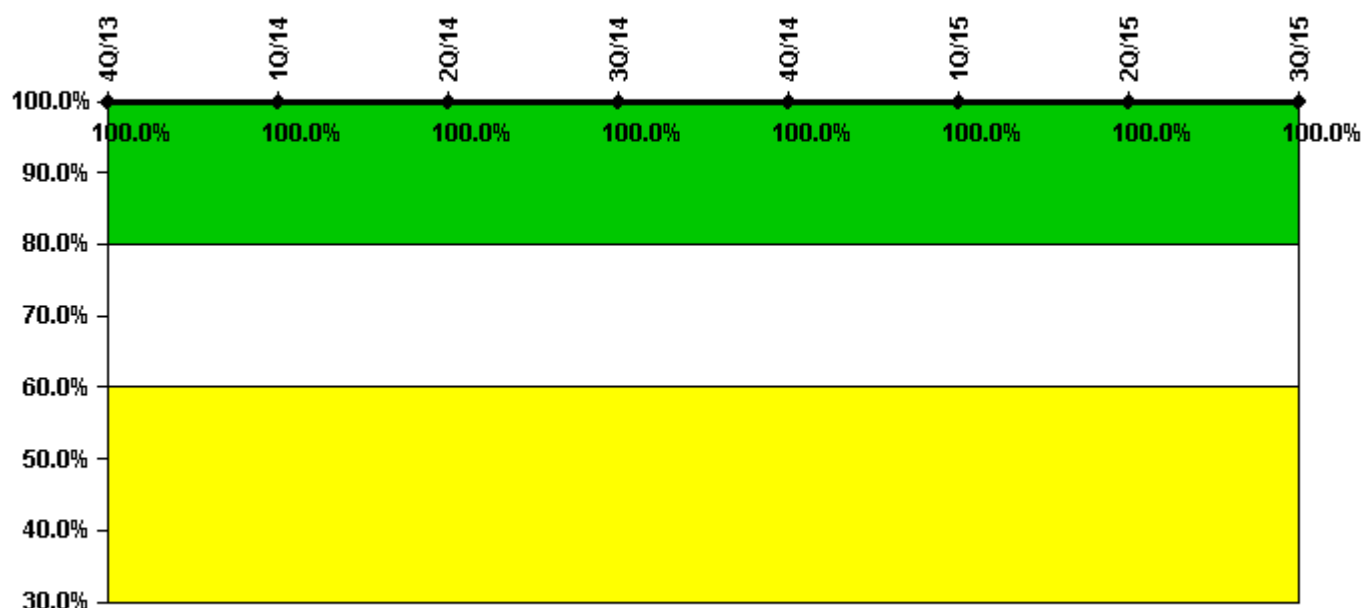
Notes

Drill/Exercise Performance	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful opportunities	14.0	36.0	28.0	33.0	19.0	31.0	31.0	35.0
Total opportunities	14.0	38.0	28.0	33.0	19.0	31.0	31.0	35.0
Indicator value	97.5%	96.6%	97.5%	97.5%	97.4%	97.7%	97.8%	99.1%

Licensee Comments:

3Q/14: Further review of a March 2014 ERO drill determined an initial successful DEP opportunity was not successful. Historical data was corrected with no change in color.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

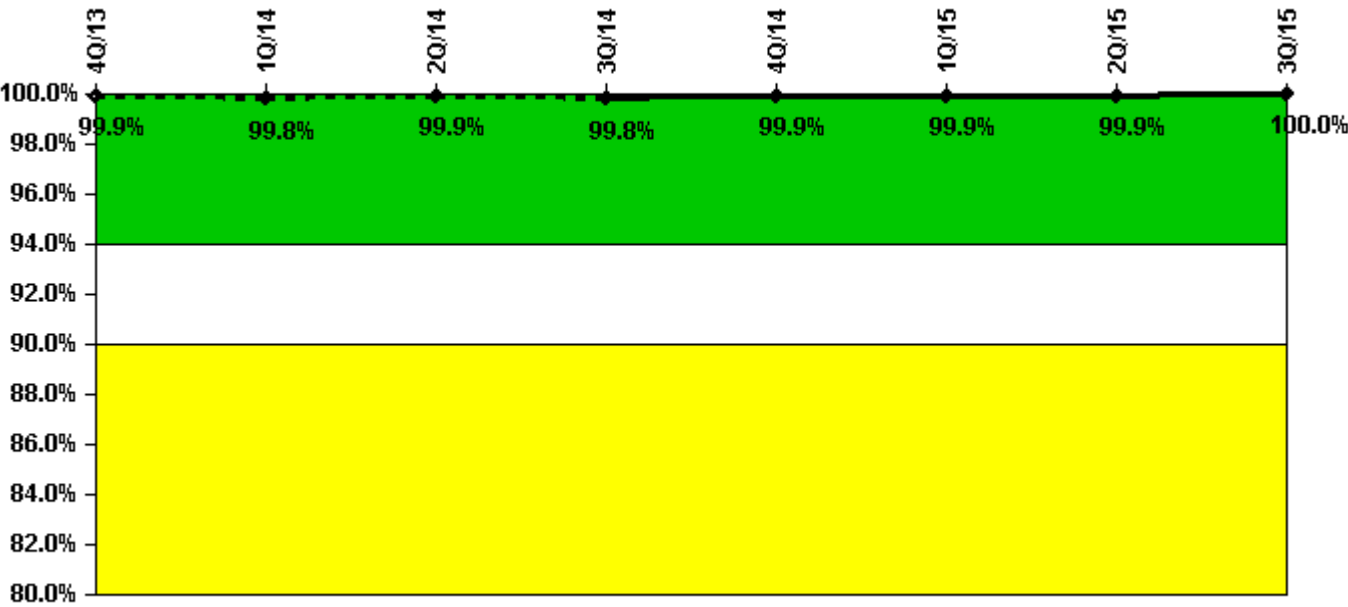
ERO Drill Participation	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Participating Key personnel	159.0	156.0	152.0	154.0	151.0	141.0	157.0	157.0
Total Key personnel	159.0	156.0	152.0	154.0	151.0	141.0	157.0	157.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/15: An assessment revealed additional key personnel for March 2015. Historical data was corrected with no change in color.

3Q/14: An assessment determined the total number of personnel in key ERO positions was inaccurate. Historical data was corrected with no change in color.

Alert & Notification System



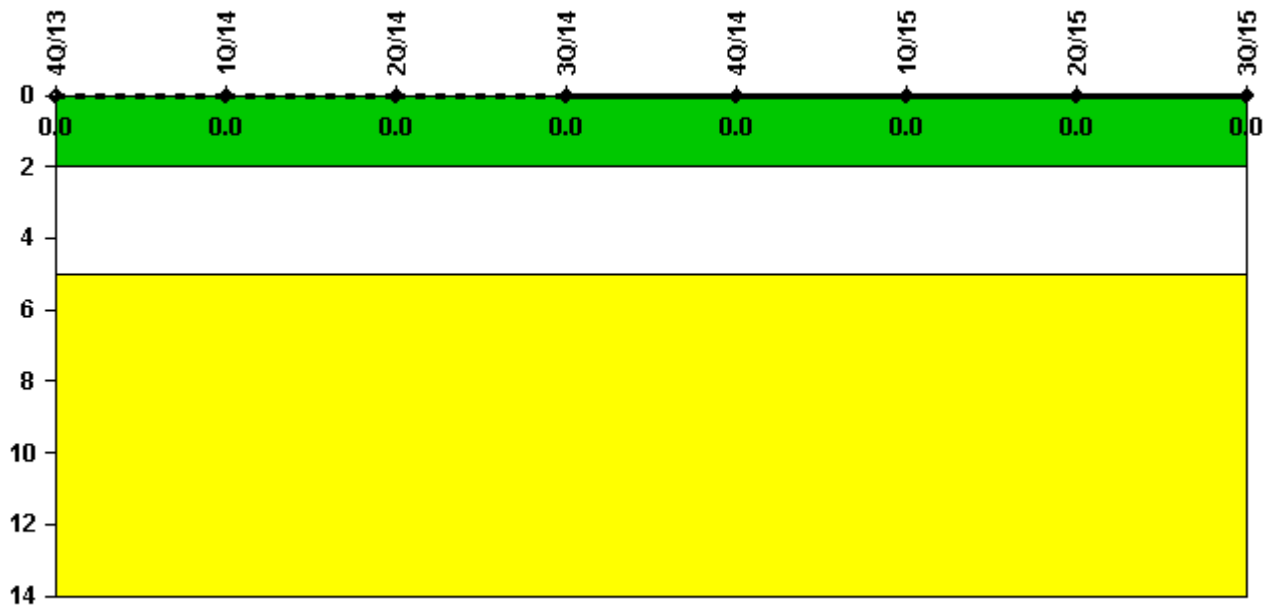
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful siren-tests	566	496	568	567	497	567	497	639
Total sirens-tests	568	497	568	568	497	568	497	639
Indicator value	99.9%	99.8%	99.9%	99.8%	99.9%	99.9%	99.9%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness

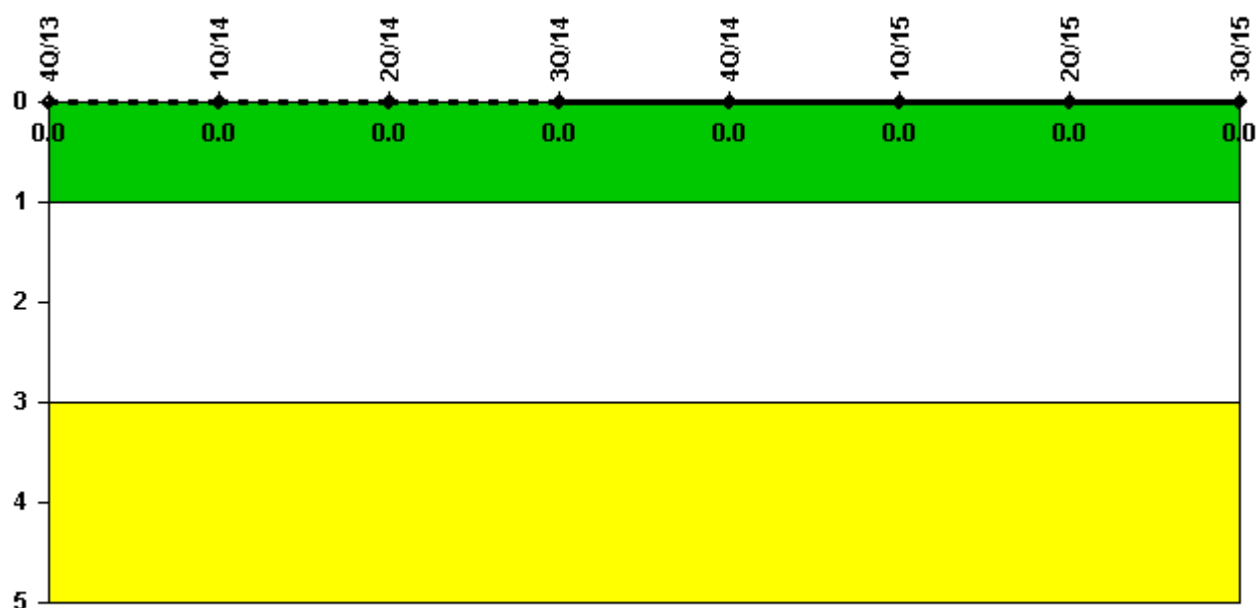


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	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/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

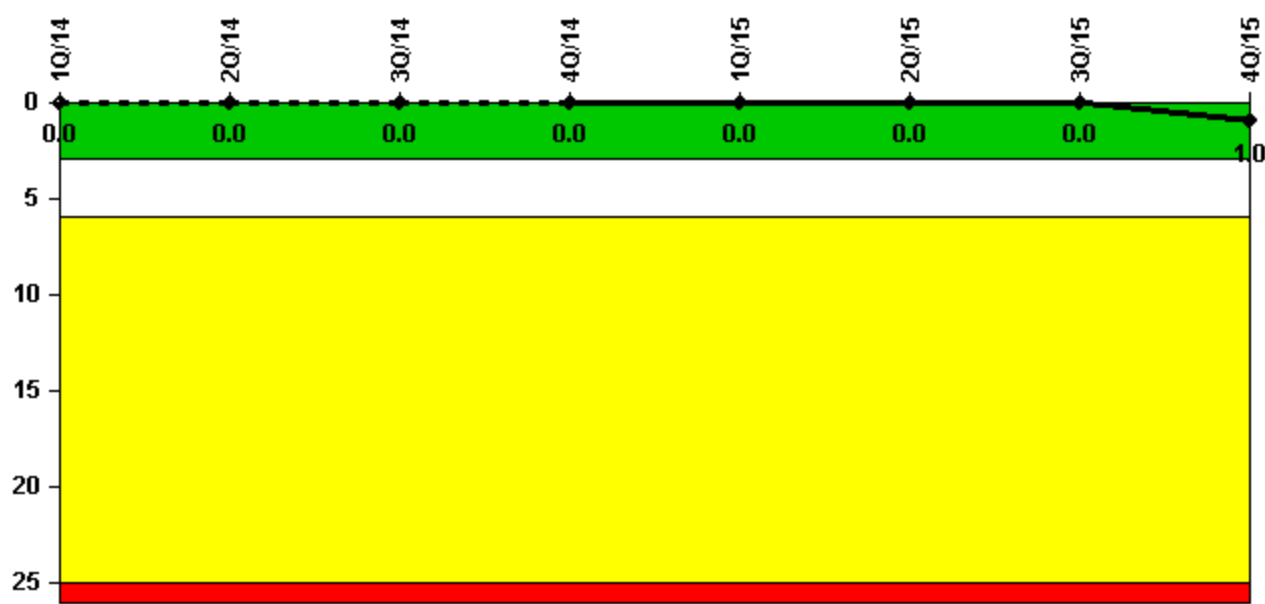
Surry 1

4Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



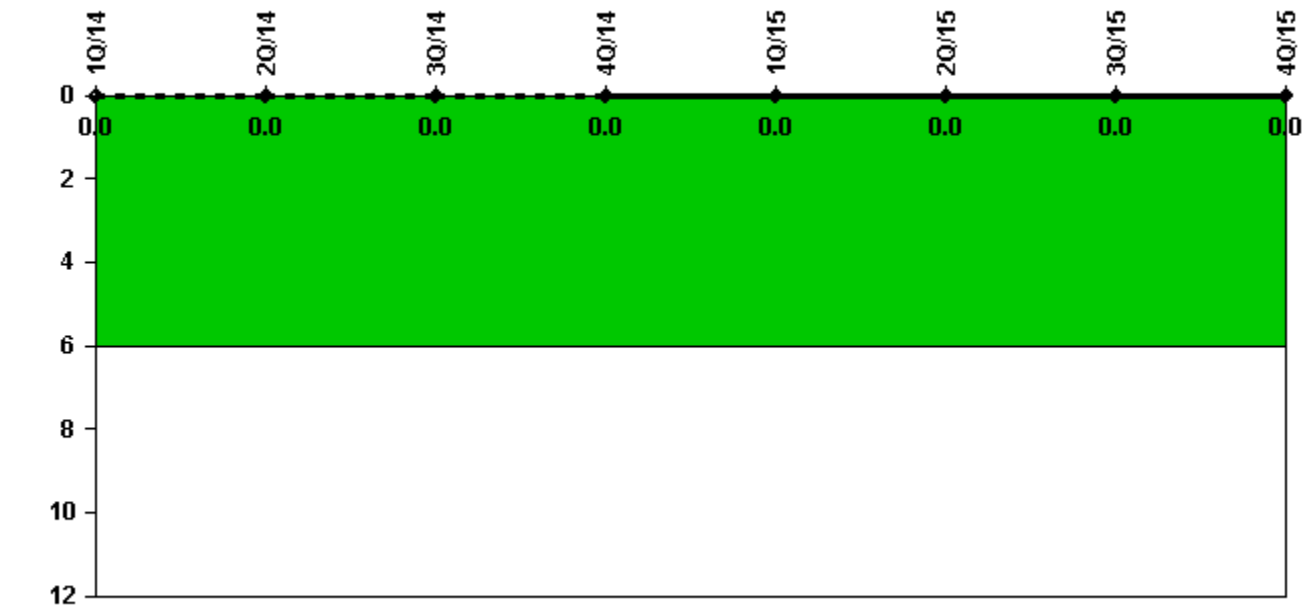
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	2159.0	2184.0	2208.0	2209.0	2159.0	1272.0	1952.3	1363.6
Indicator value	0	0	0	0	0	0	0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



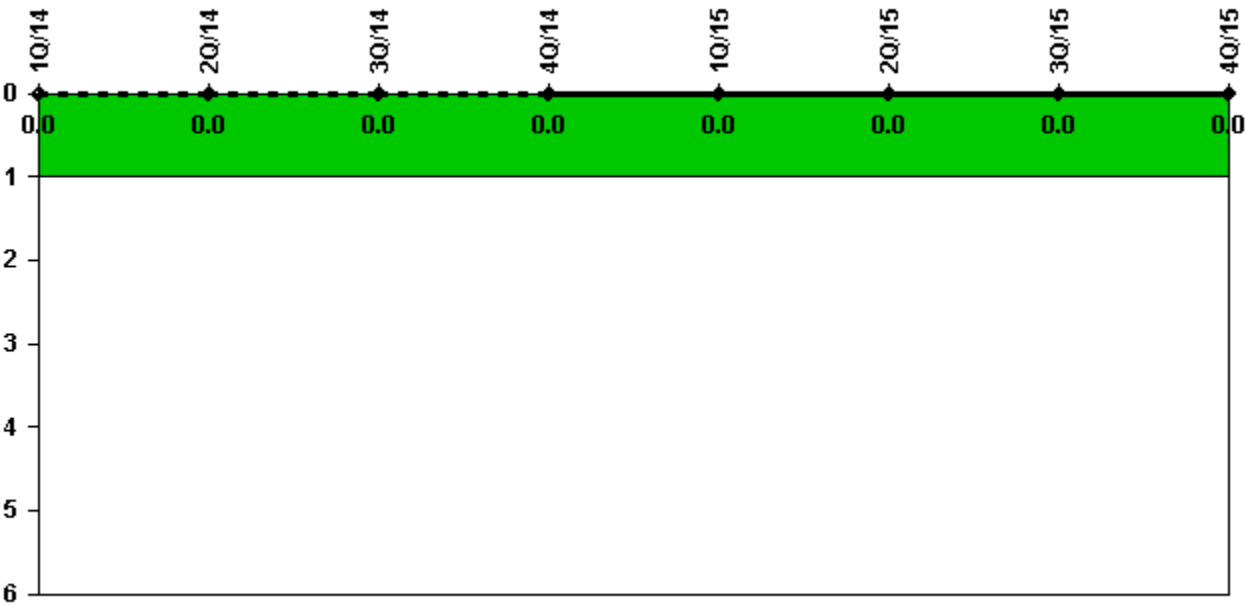
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	2209.0	2159.0	1272.0	1952.3	1363.6
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



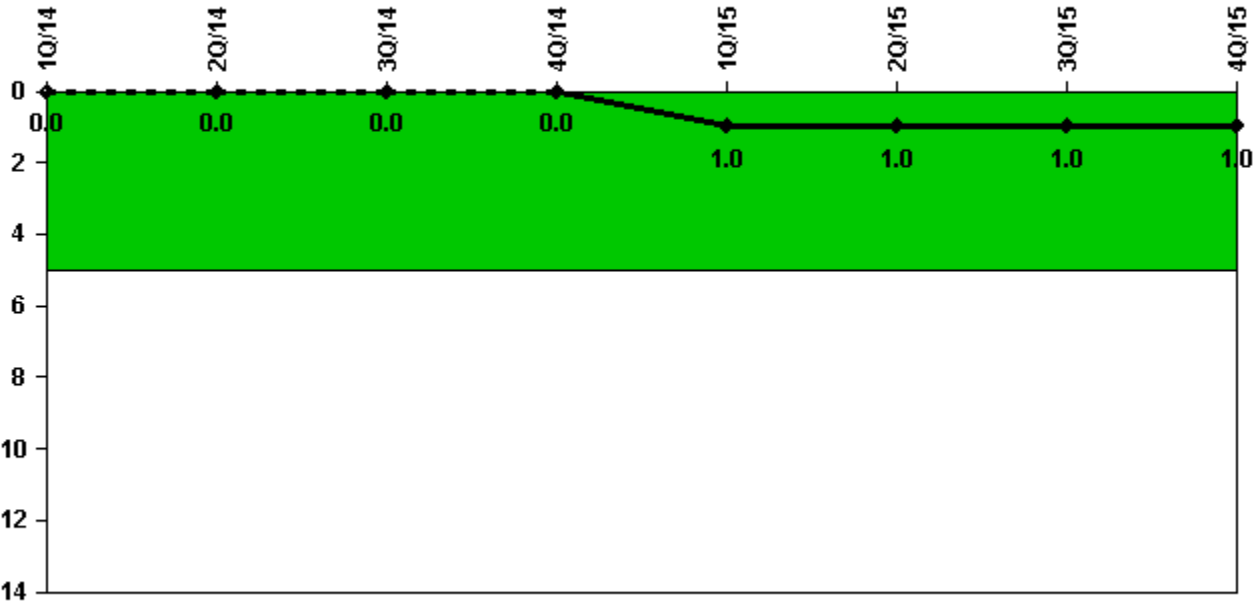
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Scrams with complications	0	0	0	0	0	0	0	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

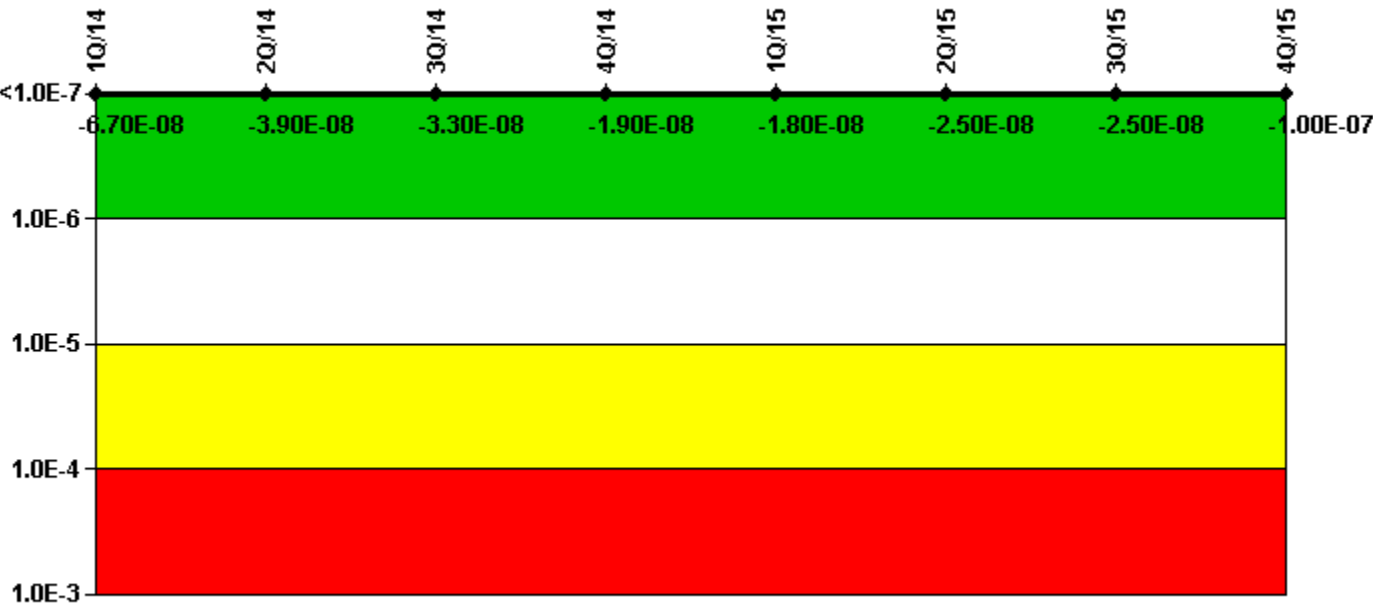
Notes

Safety System Functional Failures (PWR)	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Safety System Functional Failures	0	0	0	0	1	0	0	0
Indicator value	0	0	0	0	1	1	1	1

Licensee Comments:

2Q/15: An assessment revealed a SSFF for March 2015 (see LER 50-280, 50-281/2015-001-00). Historical data was corrected with no change in color.

Mitigating Systems Performance Index, Emergency AC Power System



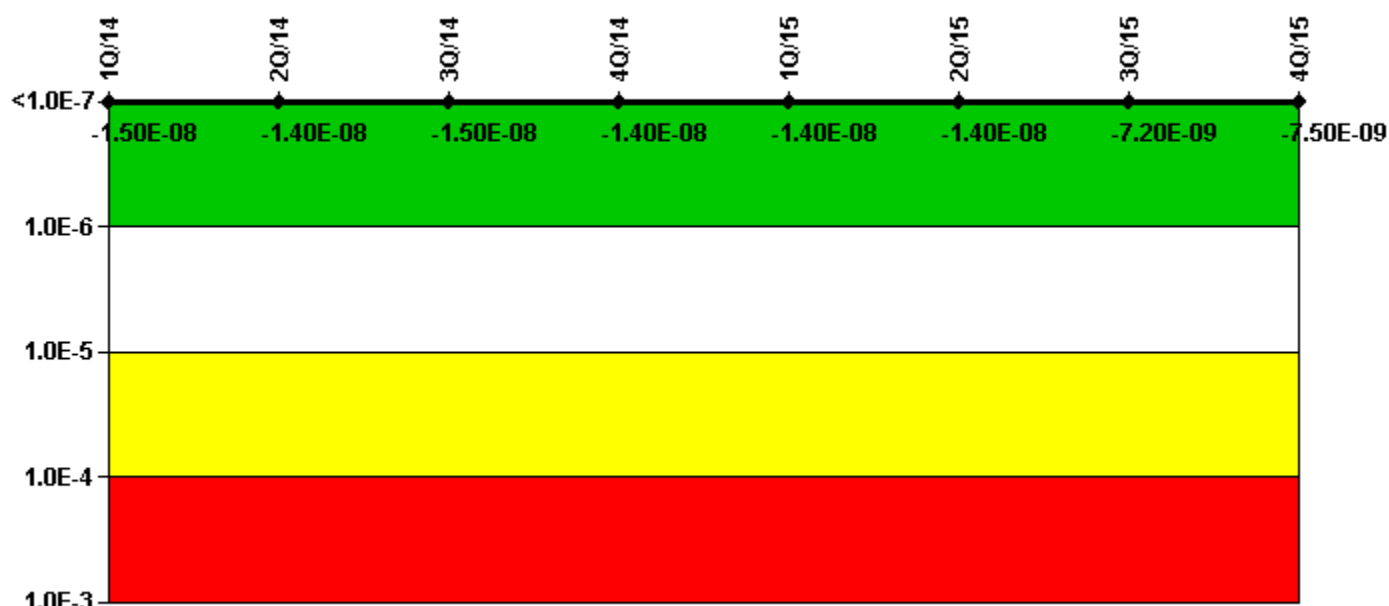
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (ΔCDF)	-1.39E-08	-1.39E-08	-1.39E-08	-2.75E-09	-2.74E-09	-2.64E-09	-2.49E-09	-4.87E-09
URI (ΔCDF)	-5.33E-08	-2.55E-08	-1.96E-08	-1.61E-08	-1.50E-08	-2.24E-08	-2.27E-08	-9.54E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.70E-08	-3.90E-08	-3.30E-08	-1.90E-08	-1.80E-08	-2.50E-08	-2.50E-08	-1.00E-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/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	-8.09E-10	-8.72E-10	-8.26E-10	-7.99E-10	-9.98E-10	-9.95E-10	-9.71E-10	-9.82E-10
URI (Δ CDF)	-1.39E-08	-1.36E-08	-1.38E-08	-1.36E-08	-1.32E-08	-1.27E-08	-6.25E-09	-6.55E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.40E-08	-1.50E-08	-1.40E-08	-1.40E-08	-1.40E-08	-7.20E-09	-7.50E-09

Licensee Comments:

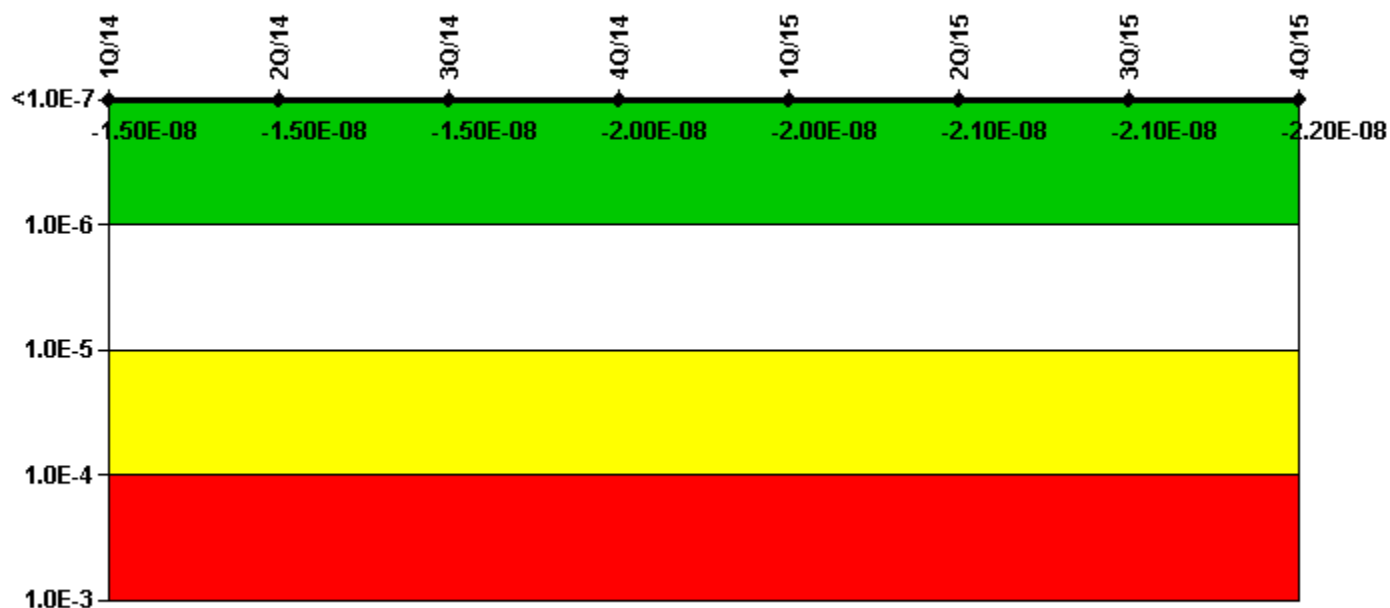
4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Heat Removal System



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

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	1.66E-09	1.25E-09	1.48E-09	-2.13E-09	-2.02E-09	-2.62E-09	-2.31E-09	-2.61E-09
URI (Δ CDF)	-1.63E-08	-1.63E-08	-1.69E-08	-1.74E-08	-1.79E-08	-1.79E-08	-1.85E-08	-1.95E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.50E-08	-1.50E-08	-2.00E-08	-2.00E-08	-2.10E-08	-2.10E-08	-2.20E-08

Licensee Comments:

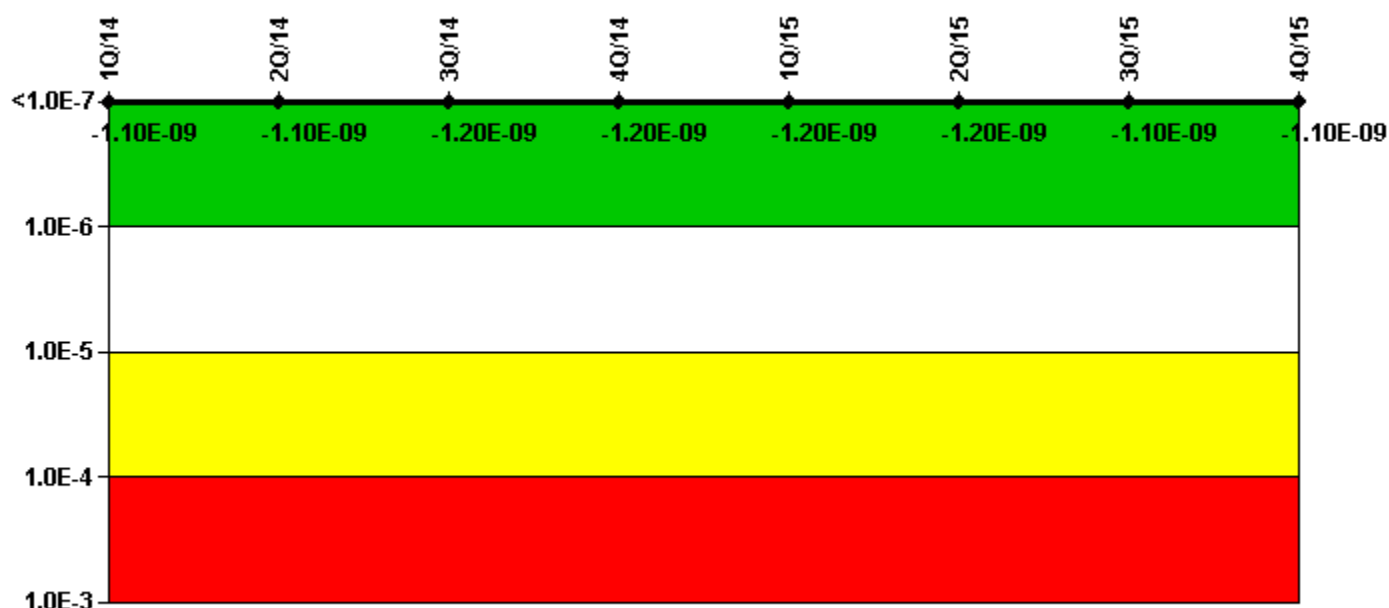
4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	-2.43E-10	-2.43E-10	-2.55E-10	-2.55E-10	-2.70E-10	-2.70E-10	-1.41E-10	-1.36E-10
URI (Δ CDF)	-9.03E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.27E-10	-9.46E-10	-9.46E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-09	-1.10E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.10E-09	-1.10E-09

Licensee Comments:

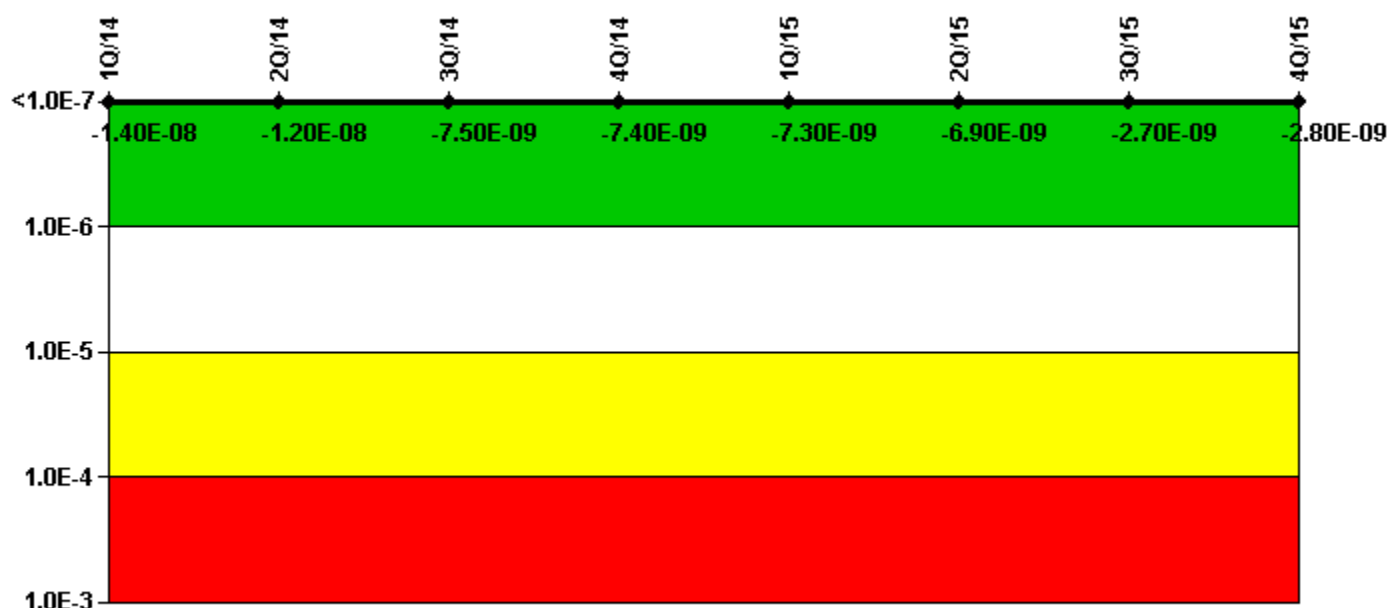
4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (ΔCDF)	1.27E-09	3.30E-09	3.04E-09	3.25E-09	3.15E-09	3.13E-09	3.12E-09	2.98E-09
URI (ΔCDF)	-1.53E-08	-1.49E-08	-1.05E-08	-1.07E-08	-1.05E-08	-1.00E-08	-5.83E-09	-5.76E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	-1.20E-08	-7.50E-09	-7.40E-09	-7.30E-09	-6.90E-09	-2.70E-09	-2.80E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

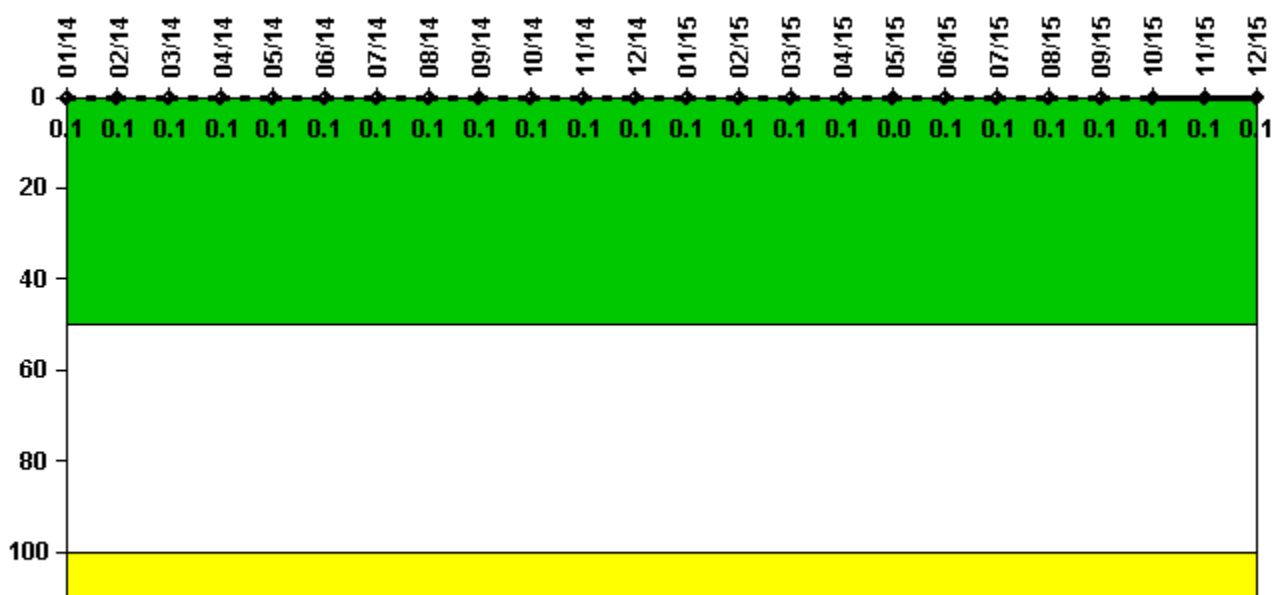
3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

2Q/14: Failure No. 311011 on March 29 was added which changed the first quarter indicator with no change in color. See LER report No. 50-280/2014-001-00.

1Q/14: Changed PRA Parameter(s).

Reactor Coolant System Activity



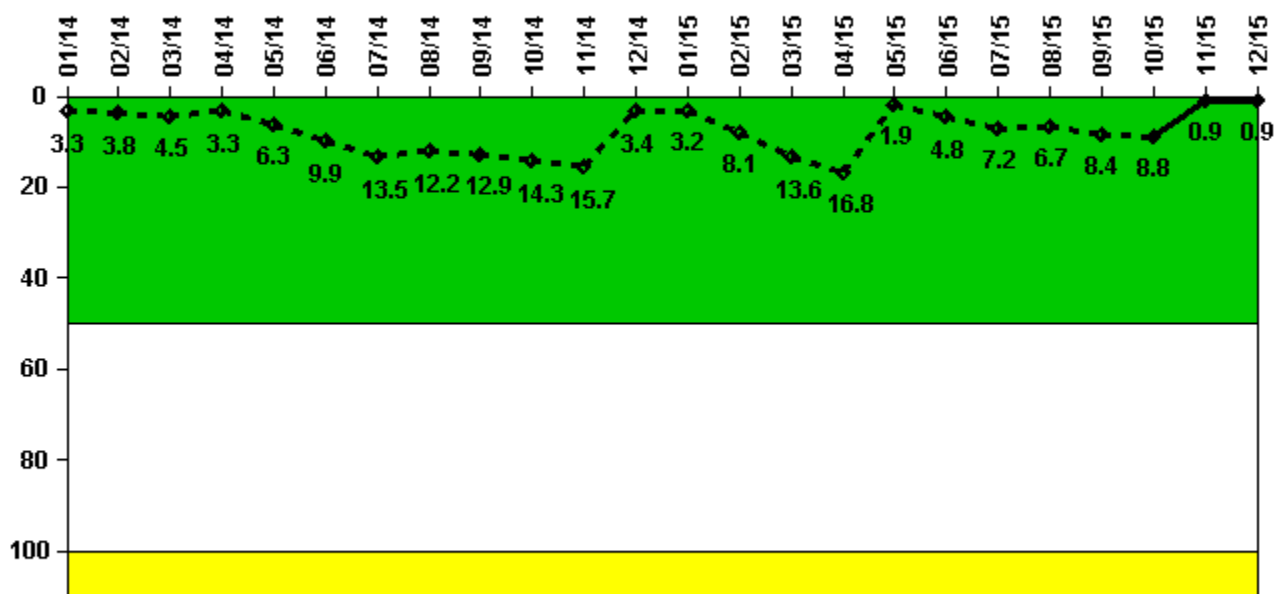
Thresholds: White > 50.0 Yellow > 100.0

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	0.000632	0.000631	0.000729	0.000749	0.000817	0.000839	0.000828	0.000910	0.000928	0.000929	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	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	0.001140	0.001110	0.001280	0.001190	0.000171	0.000544	0.000573	0.000576	0.000710	0.000620	0.000813	0.000903
Technical specification limit	1.0	1.0	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



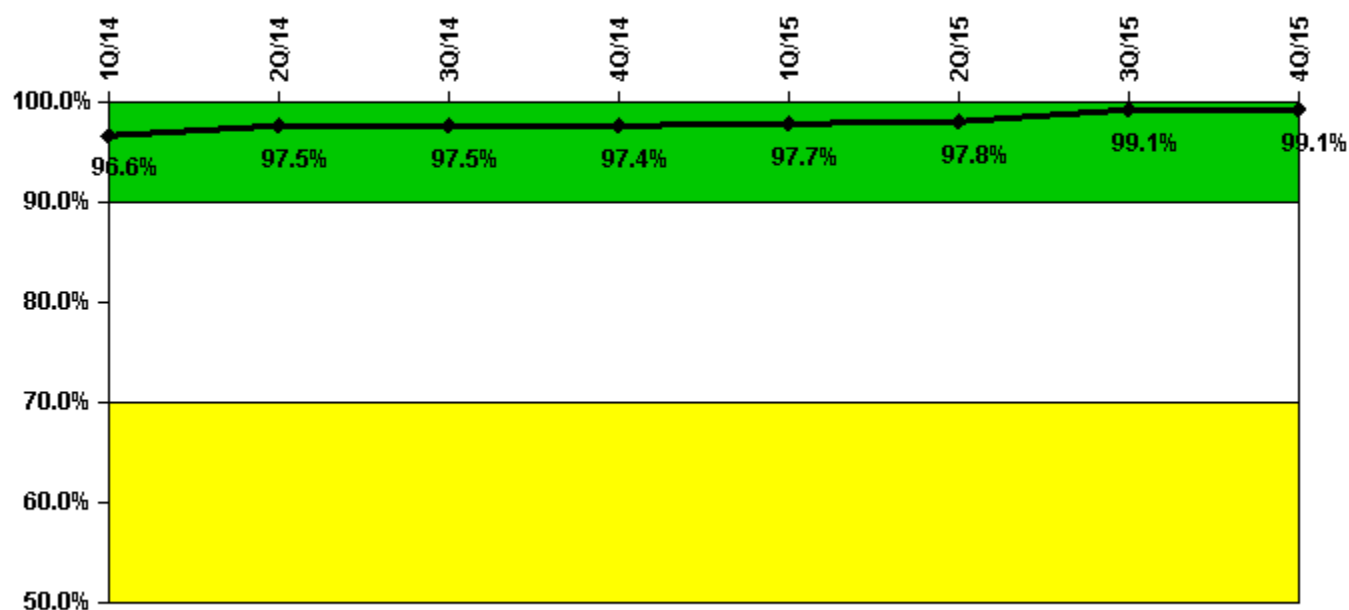
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum leakage	0.330	0.380	0.450	0.330	0.630	0.990	1.350	1.220	1.290	1.430	1.570	0.340
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.3	3.8	4.5	3.3	6.3	9.9	13.5	12.2	12.9	14.3	15.7	3.4
Reactor Coolant System Leakage	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum leakage	0.320	0.810	1.360	1.680	0.190	0.480	0.720	0.670	0.840	0.880	0.090	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.2	8.1	13.6	16.8	1.9	4.8	7.2	6.7	8.4	8.8	0.9	0.9

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

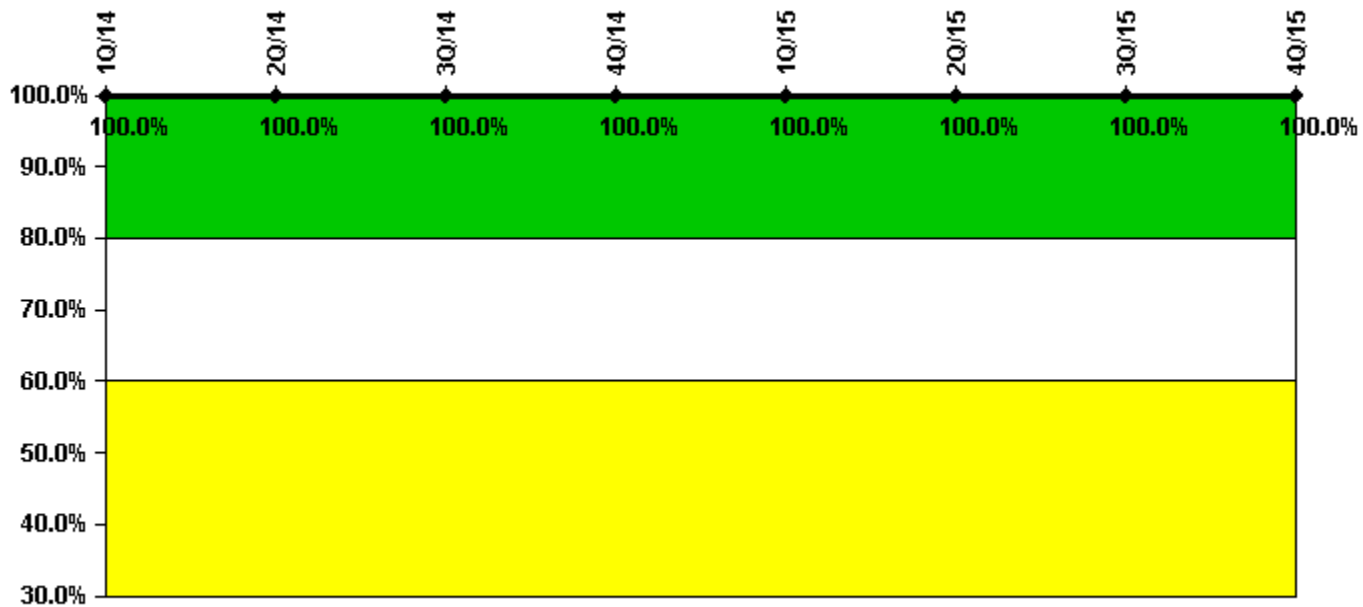
Notes

Drill/Exercise Performance	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful opportunities	36.0	28.0	33.0	19.0	31.0	31.0	35.0	20.0
Total opportunities	38.0	28.0	33.0	19.0	31.0	31.0	35.0	20.0
Indicator value	96.6%	97.5%	97.5%	97.4%	97.7%	97.8%	99.1%	99.1%

Licensee Comments:

3Q/14: Further review of a March 2014 ERO drill determined an initial successful DEP opportunity was not successful. Historical data was corrected with no change in color.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

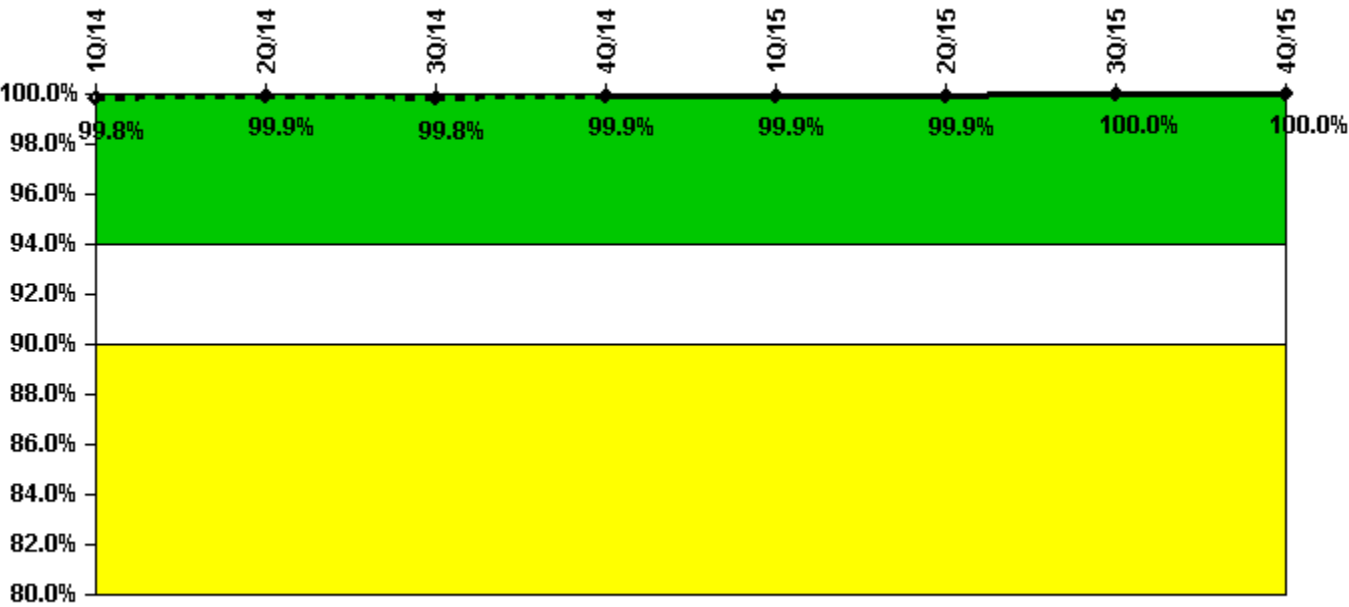
ERO Drill Participation	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Participating Key personnel	156.0	152.0	154.0	151.0	141.0	157.0	157.0	165.0
Total Key personnel	156.0	152.0	154.0	151.0	141.0	157.0	157.0	165.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/15: An assessment revealed additional key personnel for March 2015. Historical data was corrected with no change in color.

3Q/14: An assessment determined the total number of personnel in key ERO positions was inaccurate. Historical data was corrected with no change in color.

Alert & Notification System



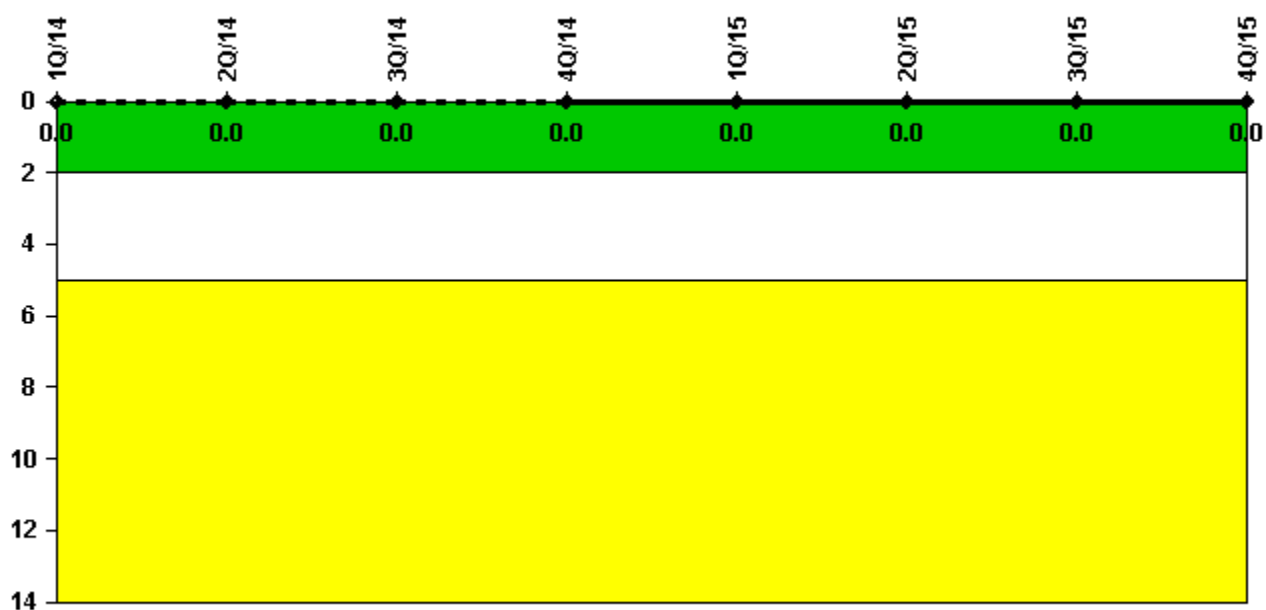
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful siren-tests	496	568	567	497	567	497	639	497
Total sirens-tests	497	568	568	497	568	497	639	497
Indicator value	99.8%	99.9%	99.8%	99.9%	99.9%	99.9%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



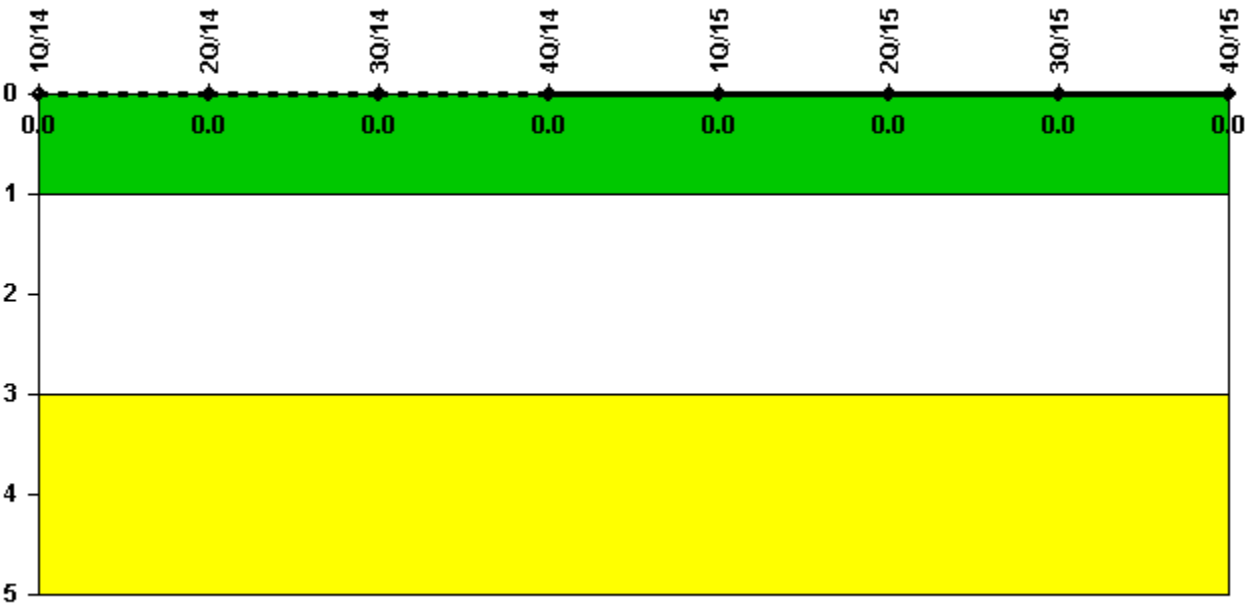
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	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

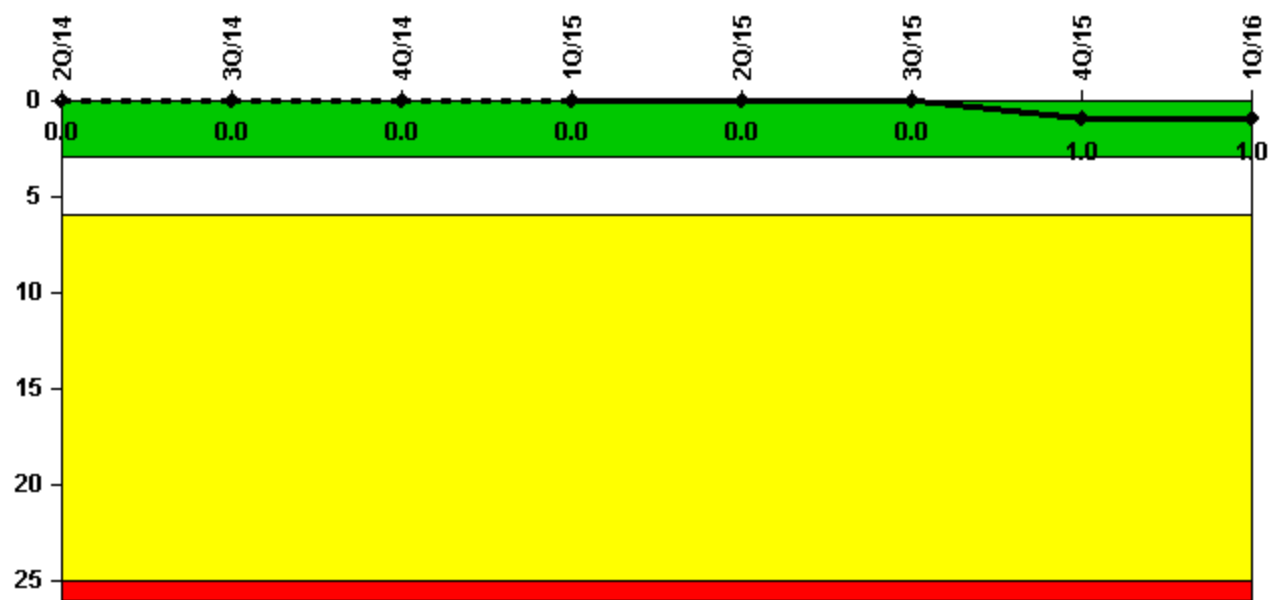
Surry 1

1Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



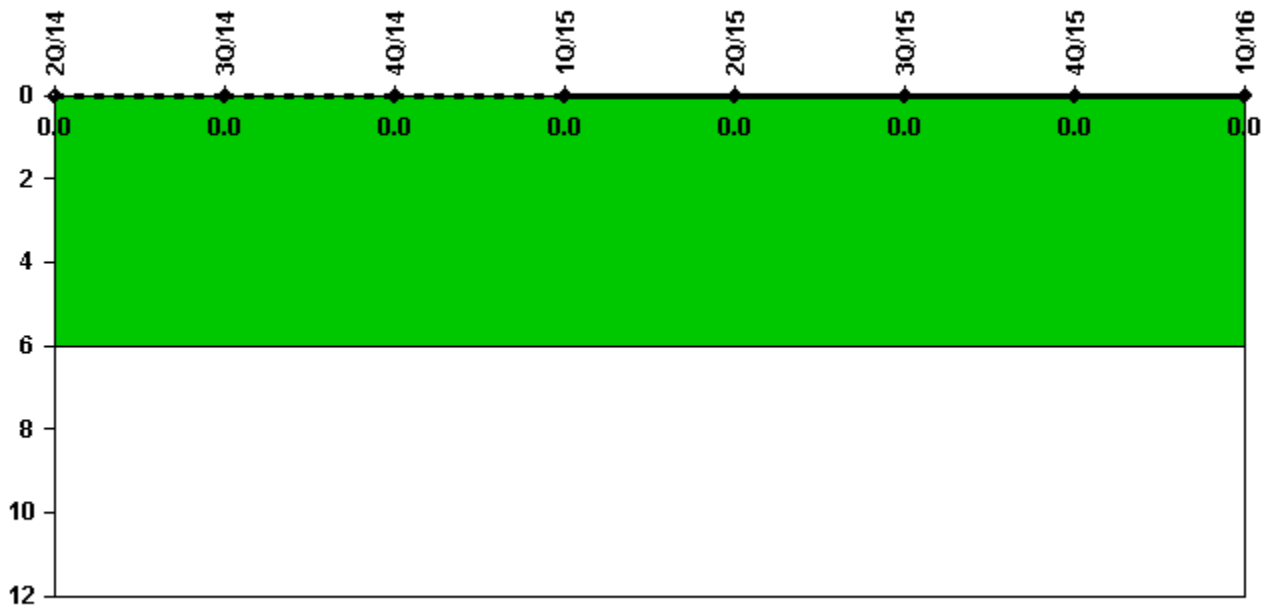
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2184.0	2208.0	2209.0	2159.0	1272.0	1952.3	1363.6	2183.0
Indicator value	0	0	0	0	0	0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



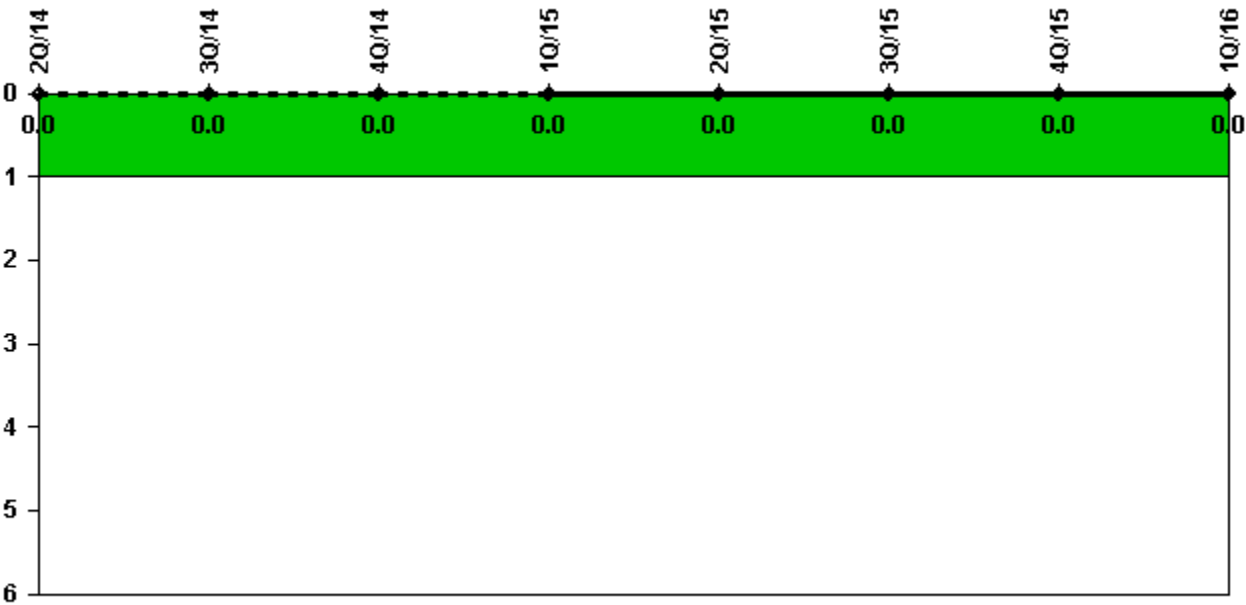
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2159.0	1272.0	1952.3	1363.6	2183.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



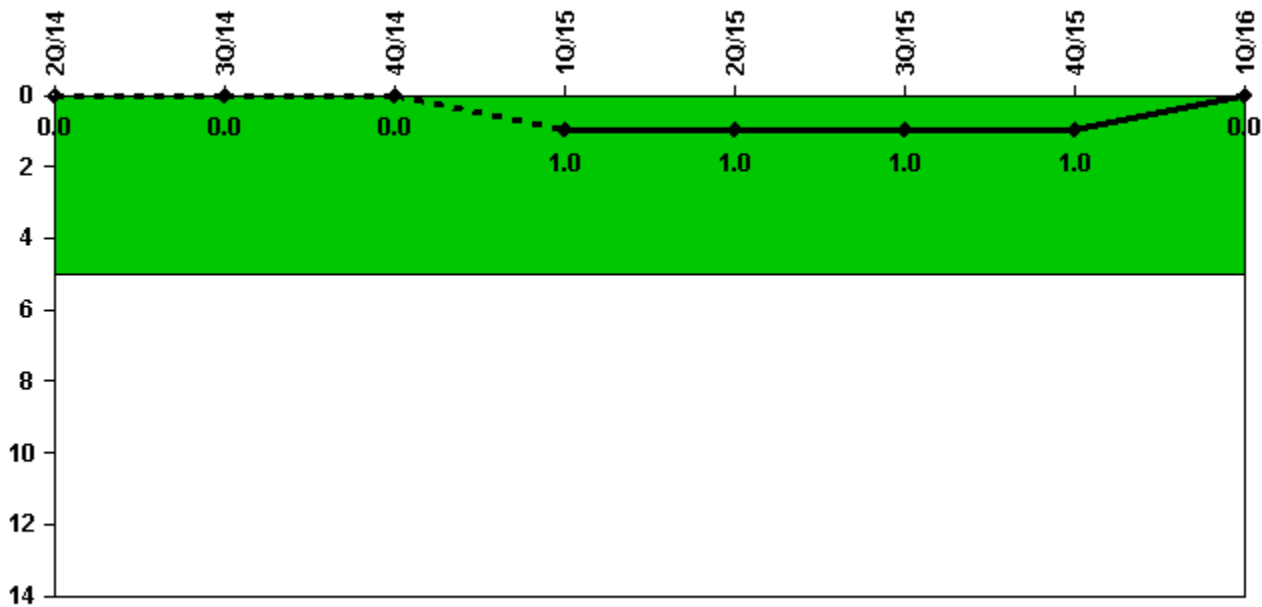
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

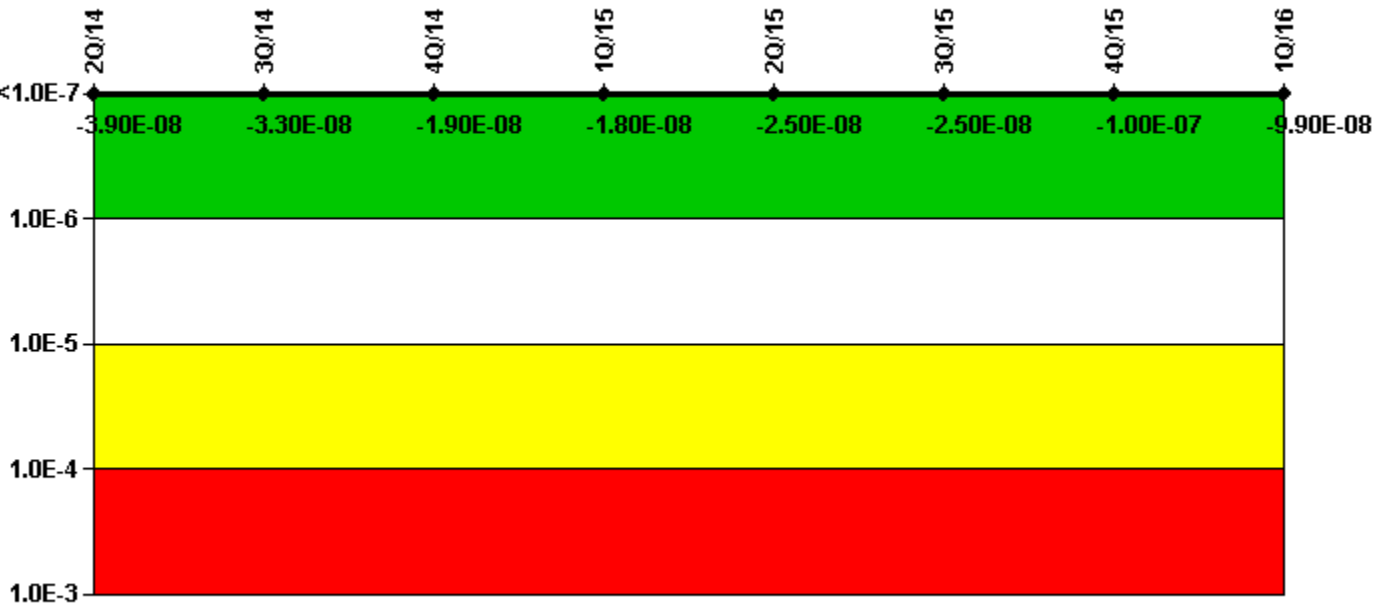
Notes

Safety System Functional Failures (PWR)	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Safety System Functional Failures	0	0	0	1	0	0	0	0
Indicator value	0	0	0	1	1	1	1	0

Licensee Comments:

2Q/15: An assessment revealed a SSFF for March 2015 (see LER 50-280, 50-281/2015-001-00). Historical data was corrected with no change in color.

Mitigating Systems Performance Index, Emergency AC Power System



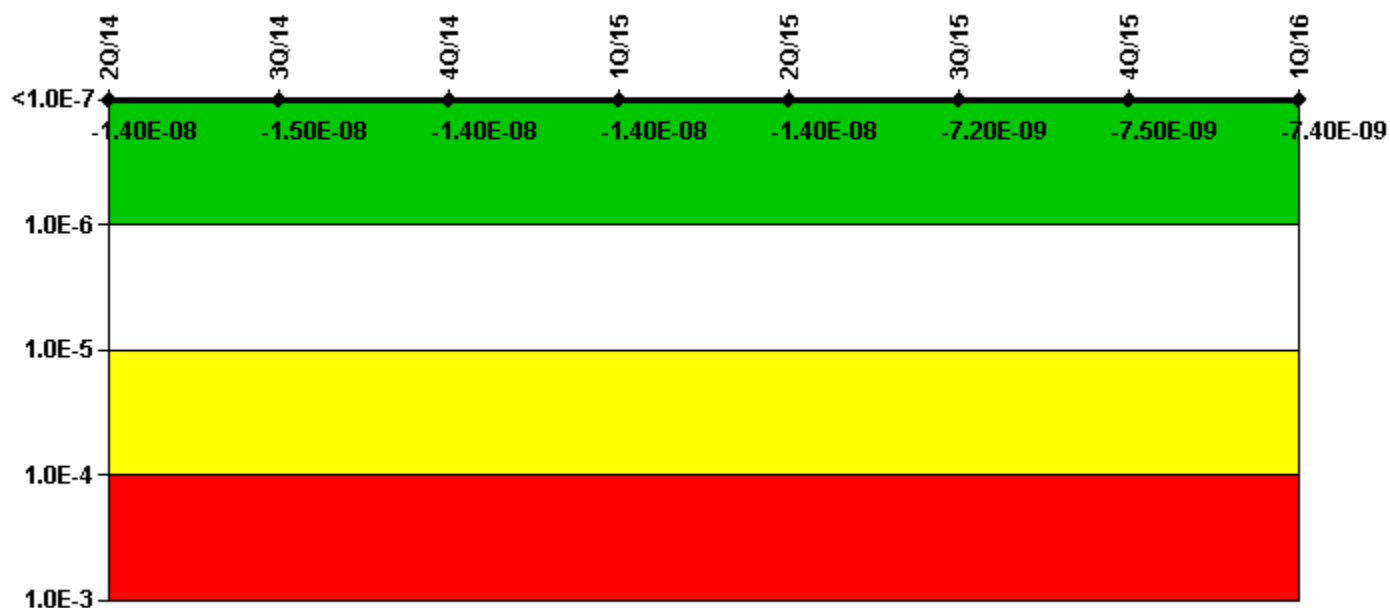
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (ΔCDF)	-1.39E-08	-1.39E-08	-2.75E-09	-2.74E-09	-2.64E-09	-2.49E-09	-4.87E-09	-4.88E-09
URI (ΔCDF)	-2.55E-08	-1.96E-08	-1.61E-08	-1.50E-08	-2.24E-08	-2.27E-08	-9.54E-08	-9.42E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.90E-08	-3.30E-08	-1.90E-08	-1.80E-08	-2.50E-08	-2.50E-08	-1.00E-07	-9.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	-8.72E-10	-8.26E-10	-7.99E-10	-9.98E-10	-9.95E-10	-9.71E-10	-9.82E-10	-1.06E-09
URI (Δ CDF)	-1.36E-08	-1.38E-08	-1.36E-08	-1.32E-08	-1.27E-08	-6.25E-09	-6.55E-09	-6.37E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	-1.50E-08	-1.40E-08	-1.40E-08	-1.40E-08	-7.20E-09	-7.50E-09	-7.40E-09

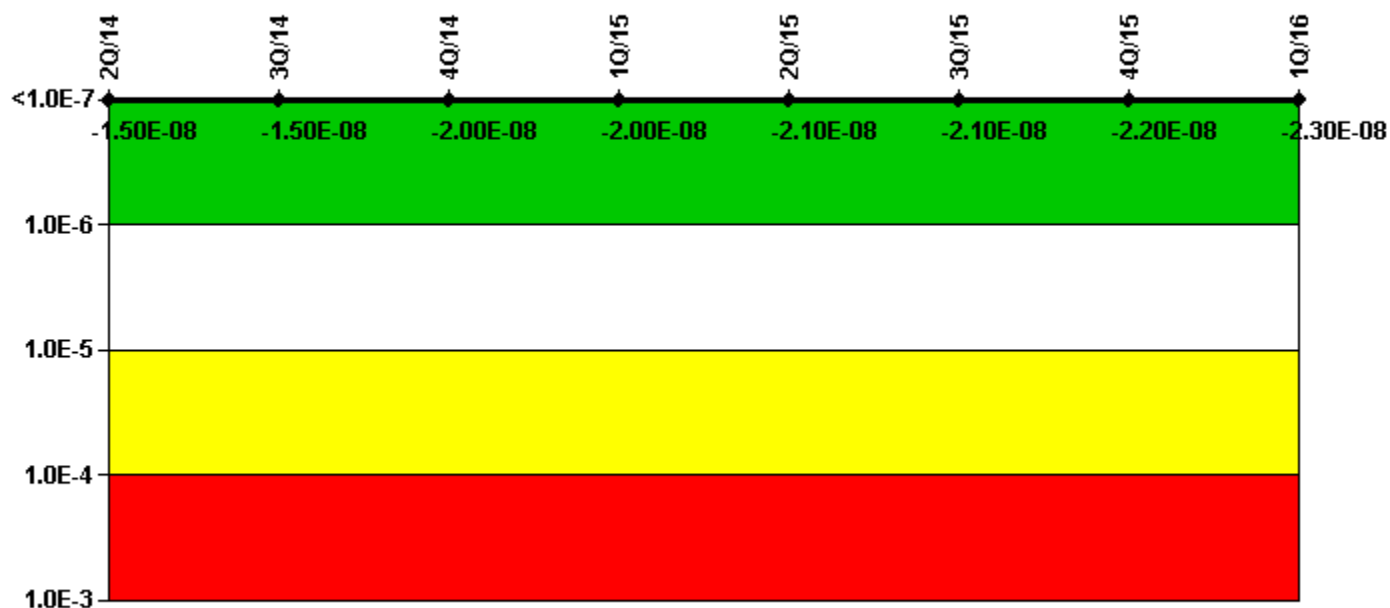
Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Heat Removal System



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

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	1.25E-09	1.48E-09	-2.13E-09	-2.02E-09	-2.62E-09	-2.31E-09	-2.61E-09	-2.60E-09
URI (Δ CDF)	-1.63E-08	-1.69E-08	-1.74E-08	-1.79E-08	-1.79E-08	-1.85E-08	-1.95E-08	-2.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.50E-08	-2.00E-08	-2.00E-08	-2.10E-08	-2.10E-08	-2.20E-08	-2.30E-08

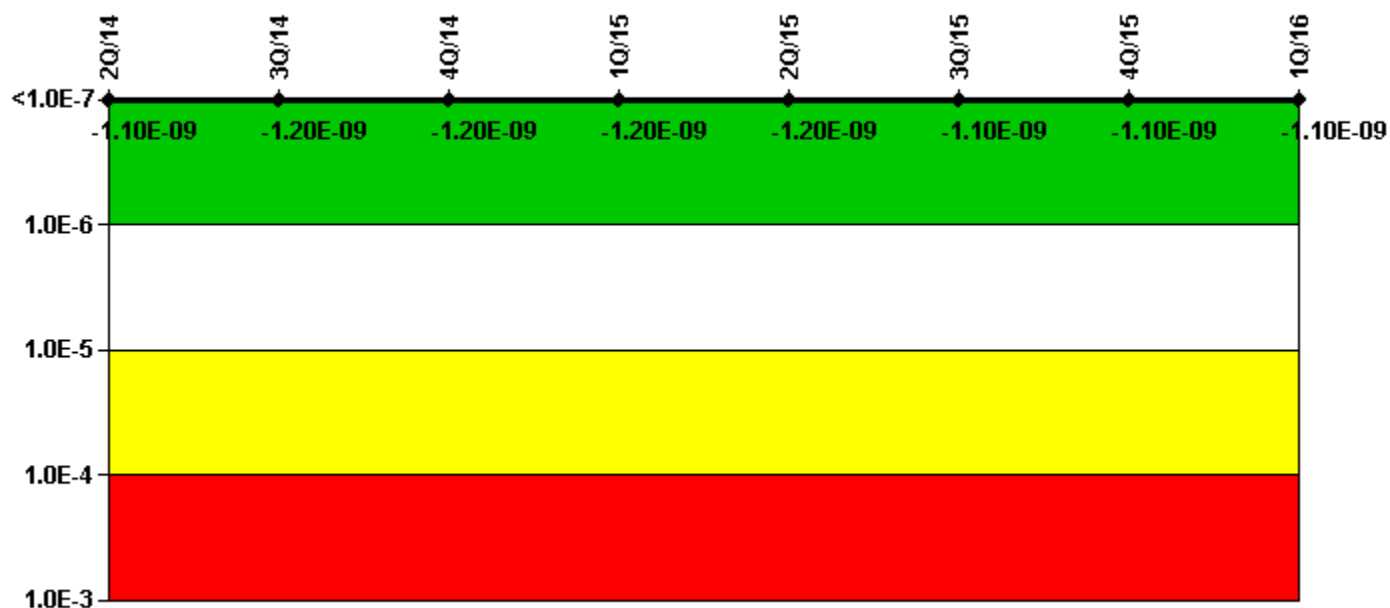
Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	-2.43E-10	-2.55E-10	-2.55E-10	-2.70E-10	-2.70E-10	-1.41E-10	-1.36E-10	-1.36E-10
URI (Δ CDF)	-9.03E-10	-9.03E-10	-9.03E-10	-9.03E-10	-9.27E-10	-9.46E-10	-9.46E-10	-9.55E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.10E-09	-1.10E-09	-1.10E-09

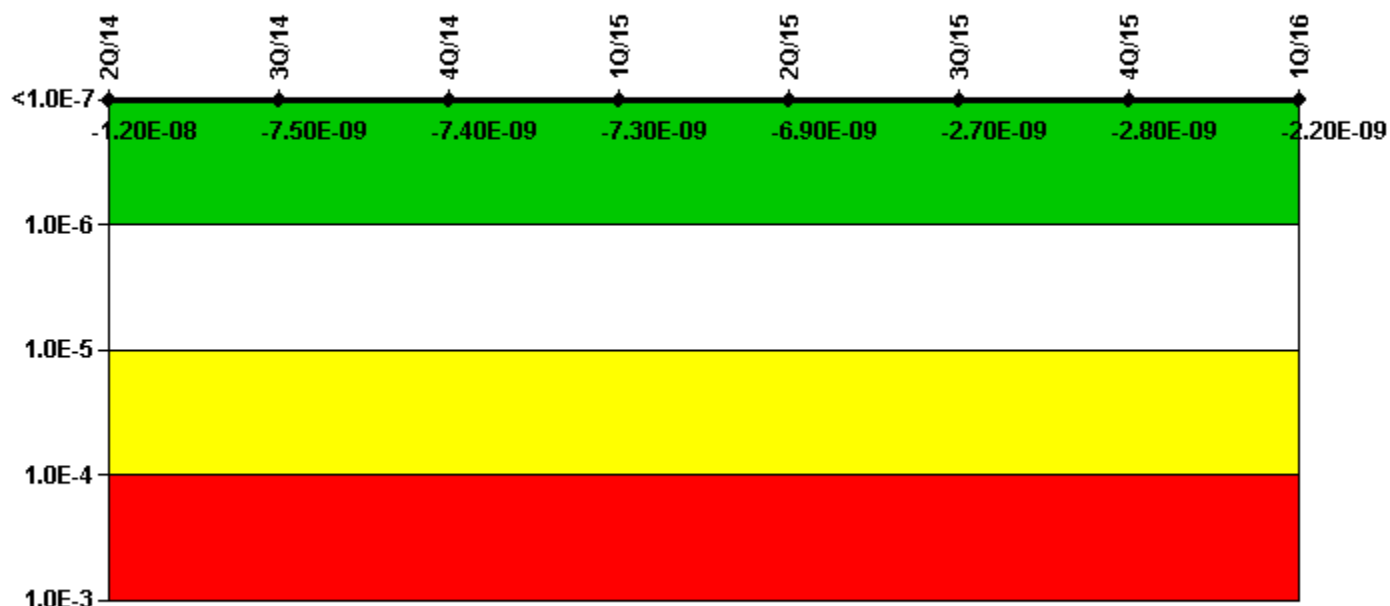
Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	3.30E-09	3.04E-09	3.25E-09	3.15E-09	3.13E-09	3.12E-09	2.98E-09	3.01E-09
URI (Δ CDF)	-1.49E-08	-1.05E-08	-1.07E-08	-1.05E-08	-1.00E-08	-5.83E-09	-5.76E-09	-5.24E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-08	-7.50E-09	-7.40E-09	-7.30E-09	-6.90E-09	-2.70E-09	-2.80E-09	-2.20E-09

Licensee Comments:

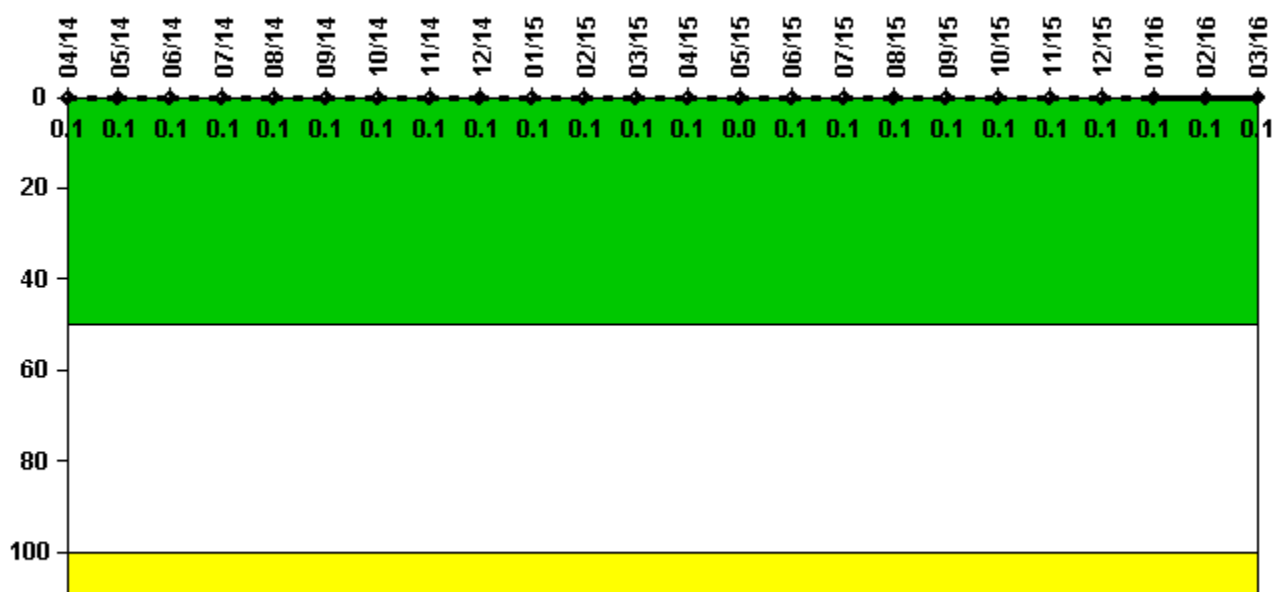
4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

2Q/14: Failure No. 311011 on March 29 was added which changed the first quarter indicator with no change in color. See LER report No. 50-280/2014-001-00.

Reactor Coolant System Activity



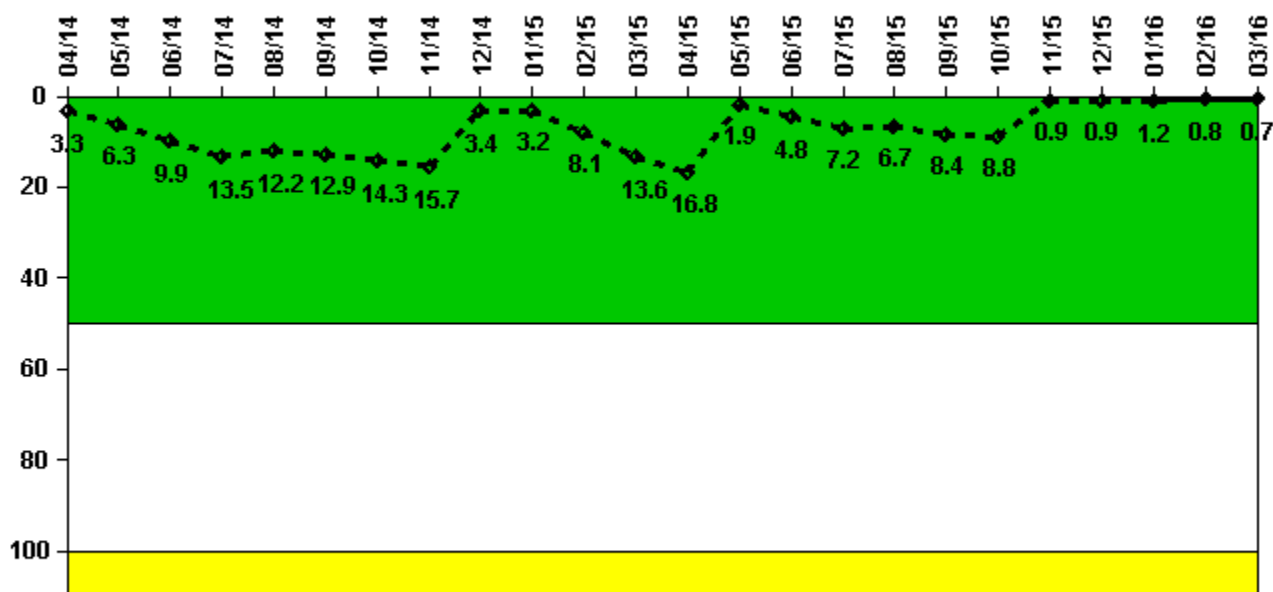
Thresholds: White > 50.0 Yellow > 100.0

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	0.000749	0.000817	0.000839	0.000828	0.000910	0.000928	0.000929	0.001020	0.001030	0.001140	0.001110	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	0.1	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	0.001190	0.000171	0.000544	0.000573	0.000576	0.000710	0.000620	0.000813	0.000903	0.000789	0.000840	0.000893
Technical specification limit	1.0	1.0	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	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



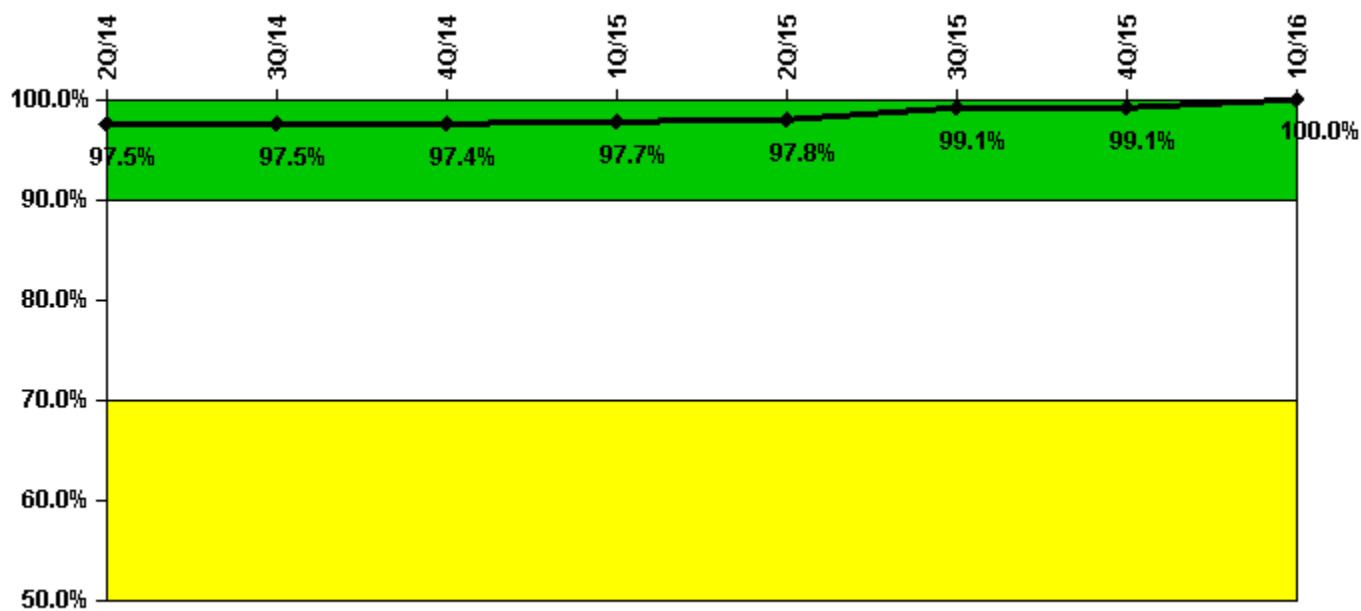
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum leakage	0.330	0.630	0.990	1.350	1.220	1.290	1.430	1.570	0.340	0.320	0.810	1.360
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.3	6.3	9.9	13.5	12.2	12.9	14.3	15.7	3.4	3.2	8.1	13.6
Reactor Coolant System Leakage	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum leakage	1.680	0.190	0.480	0.720	0.670	0.840	0.880	0.090	0.090	0.120	0.080	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	16.8	1.9	4.8	7.2	6.7	8.4	8.8	0.9	0.9	1.2	0.8	0.7

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

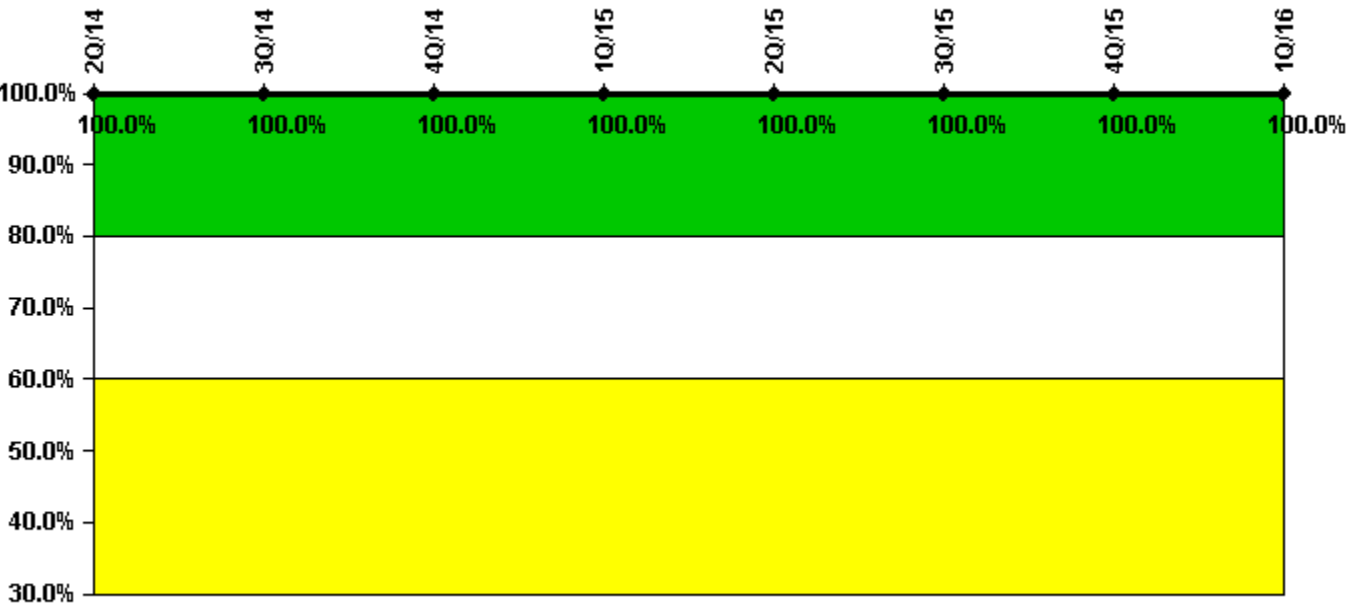
Notes

Drill/Exercise Performance	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful opportunities	28.0	33.0	19.0	31.0	31.0	35.0	20.0	39.0
Total opportunities	28.0	33.0	19.0	31.0	31.0	35.0	20.0	39.0
Indicator value	97.5%	97.5%	97.4%	97.7%	97.8%	99.1%	99.1%	100.0%

Licensee Comments:

3Q/14: Further review of a March 2014 ERO drill determined an initial successful DEP opportunity was not successful. Historical data was corrected with no change in color.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

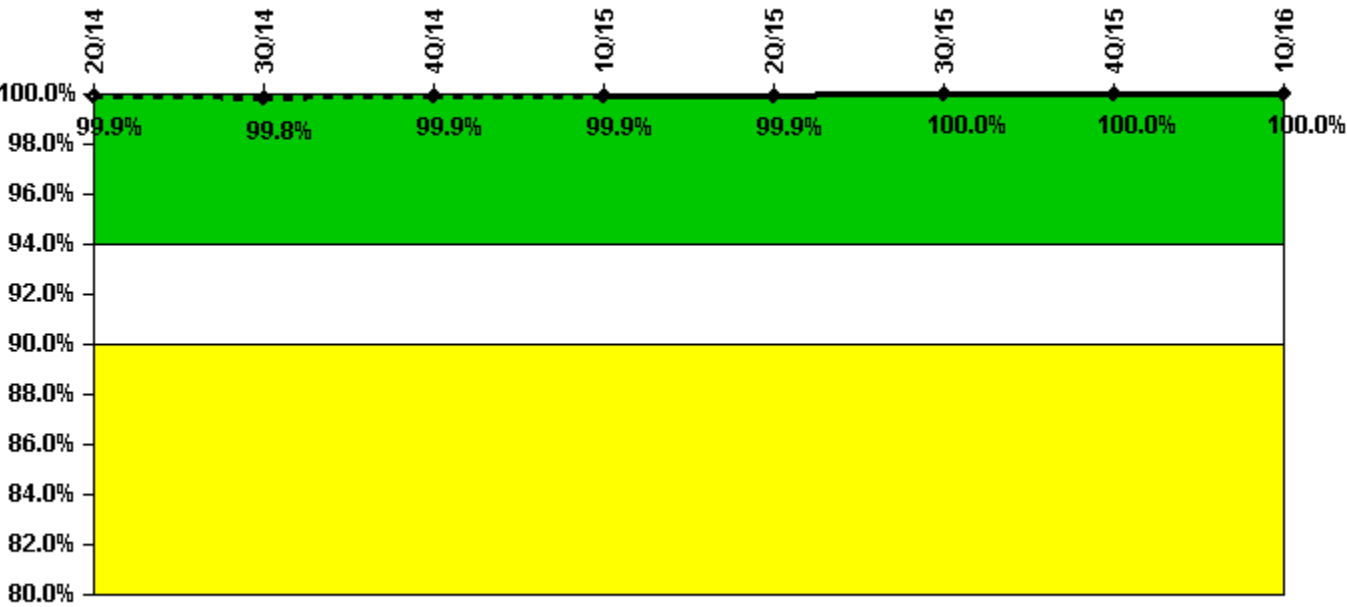
ERO Drill Participation	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Participating Key personnel	152.0	154.0	151.0	141.0	157.0	157.0	165.0	175.0
Total Key personnel	152.0	154.0	151.0	141.0	157.0	157.0	165.0	175.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/15: An assessment revealed additional key personnel for March 2015. Historical data was corrected with no change in color.

3Q/14: An assessment determined the total number of personnel in key ERO positions was inaccurate. Historical data was corrected with no change in color.

Alert & Notification System



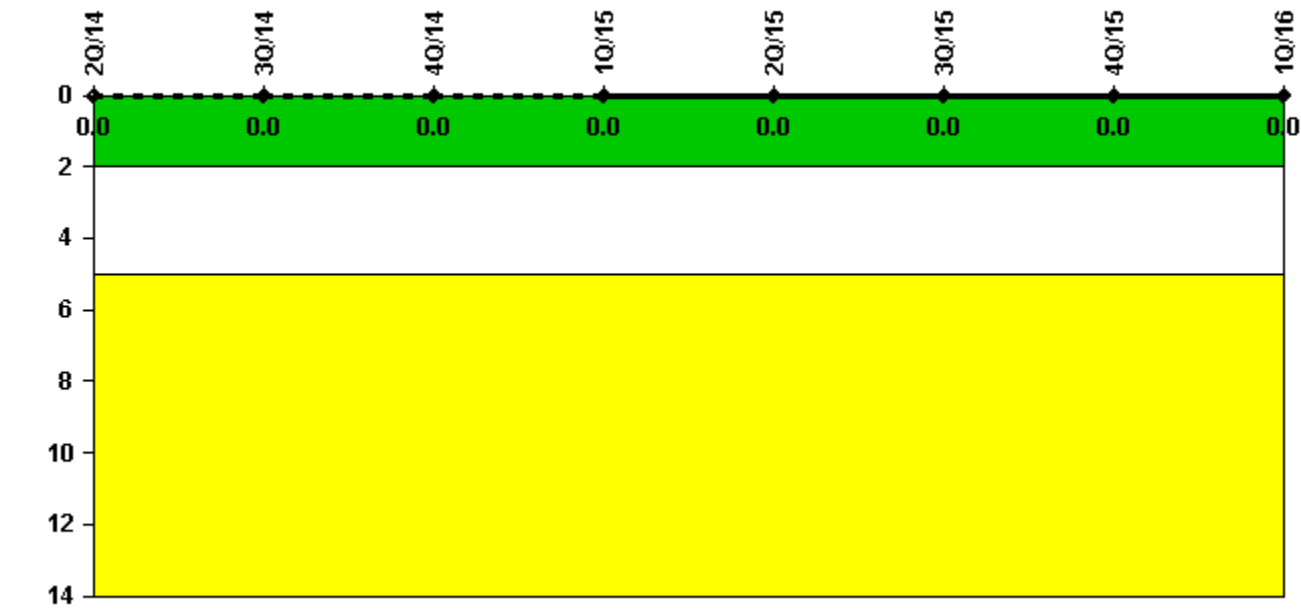
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful siren-tests	568	567	497	567	497	639	497	568
Total sirens-tests	568	568	497	568	497	639	497	568
Indicator value	99.9%	99.8%	99.9%	99.9%	99.9%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



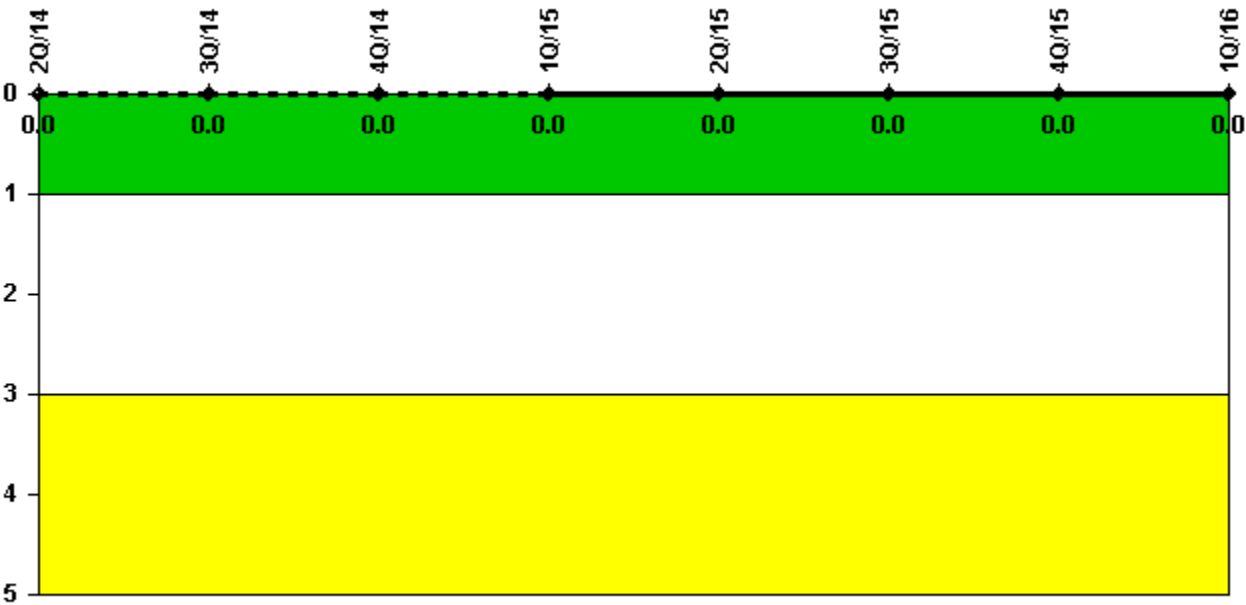
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	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

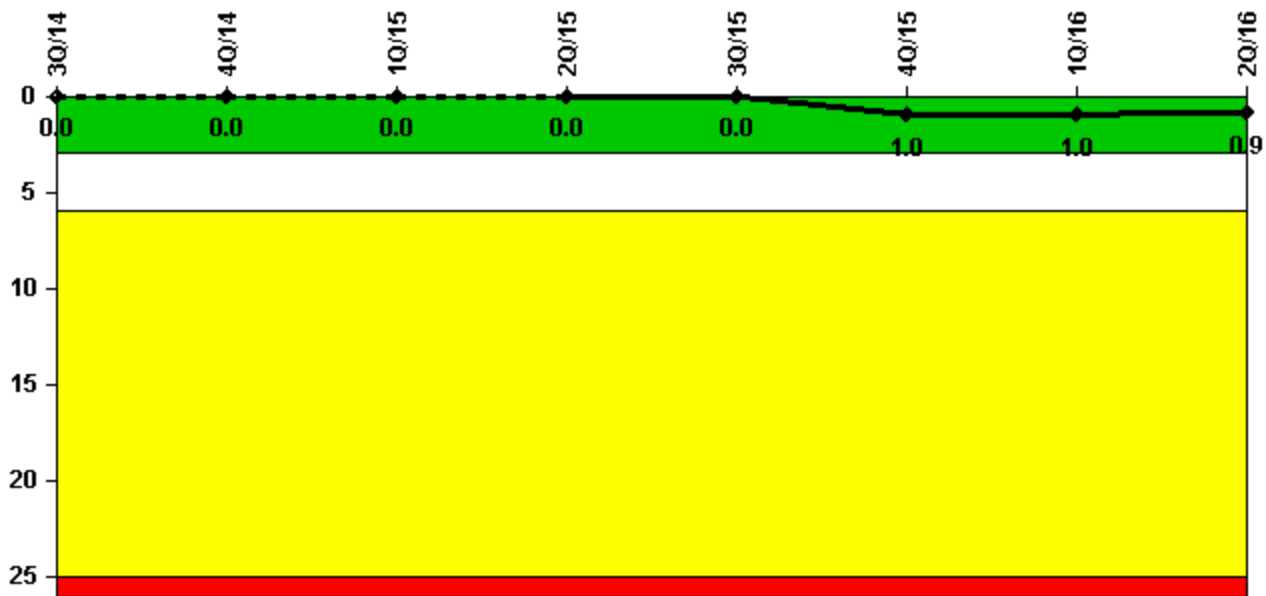
Surry 1

2Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



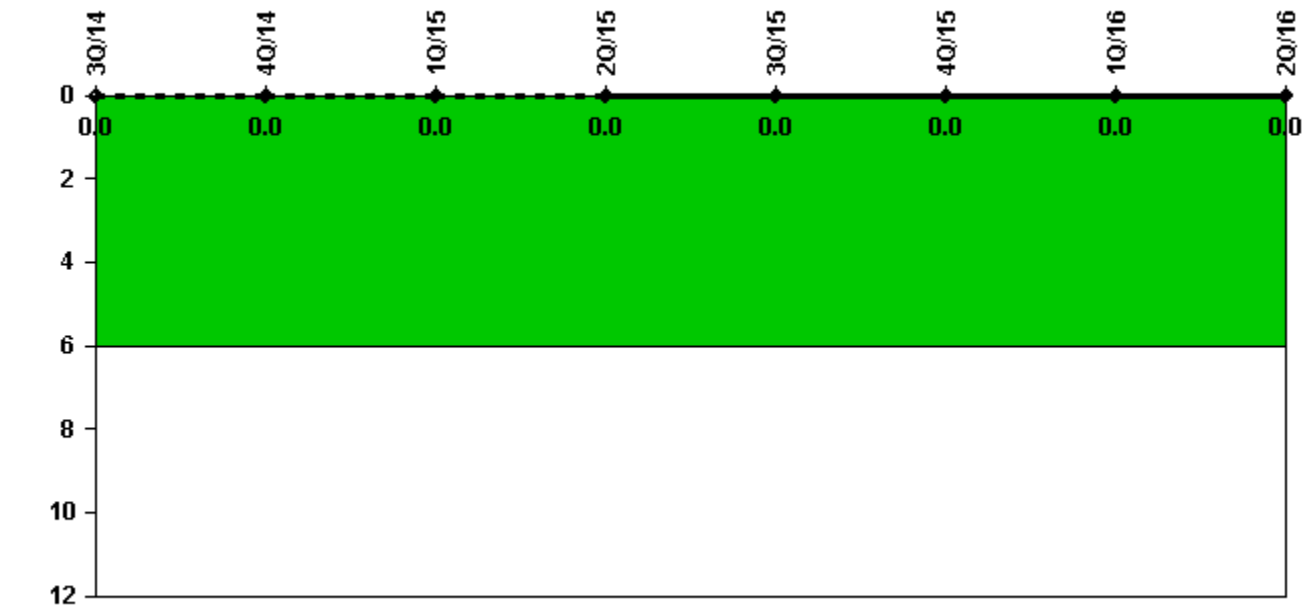
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	2159.0	1272.0	1952.3	1363.6	2183.0	2184.0
Indicator value	0	0	0	0	0	1.0	1.0	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



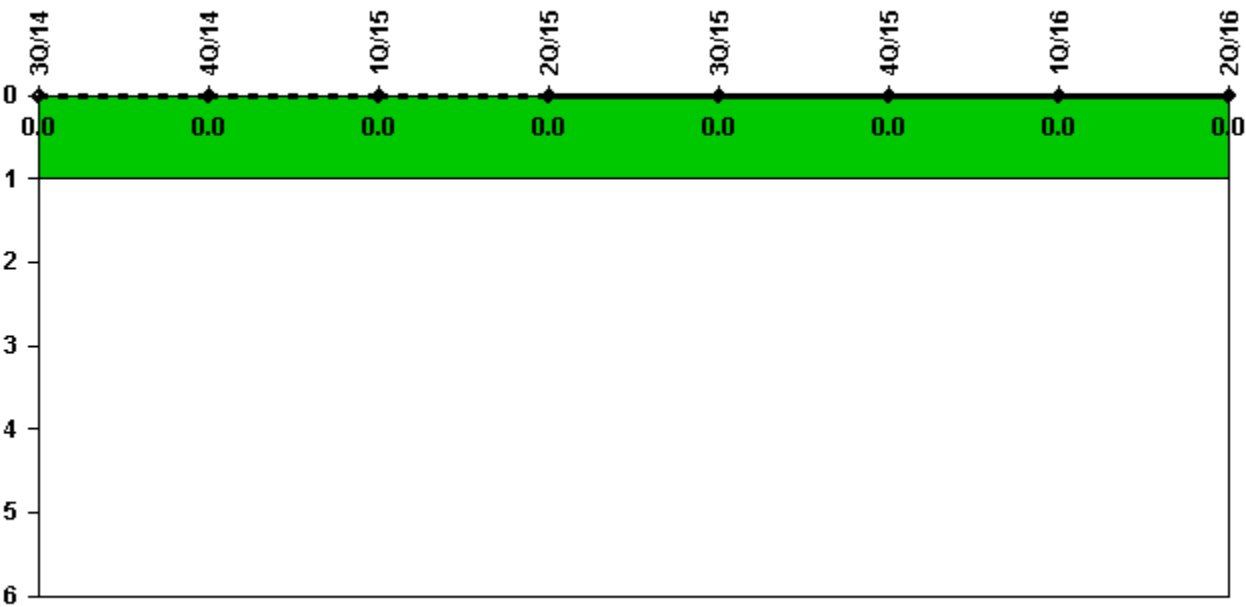
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	1272.0	1952.3	1363.6	2183.0	2184.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



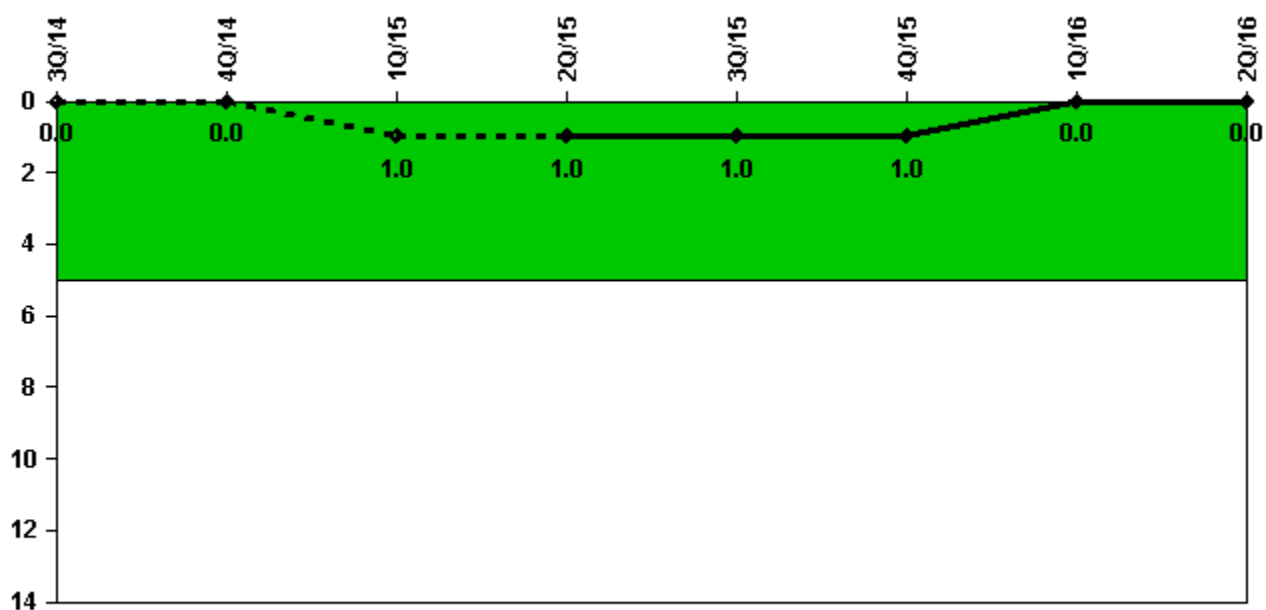
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

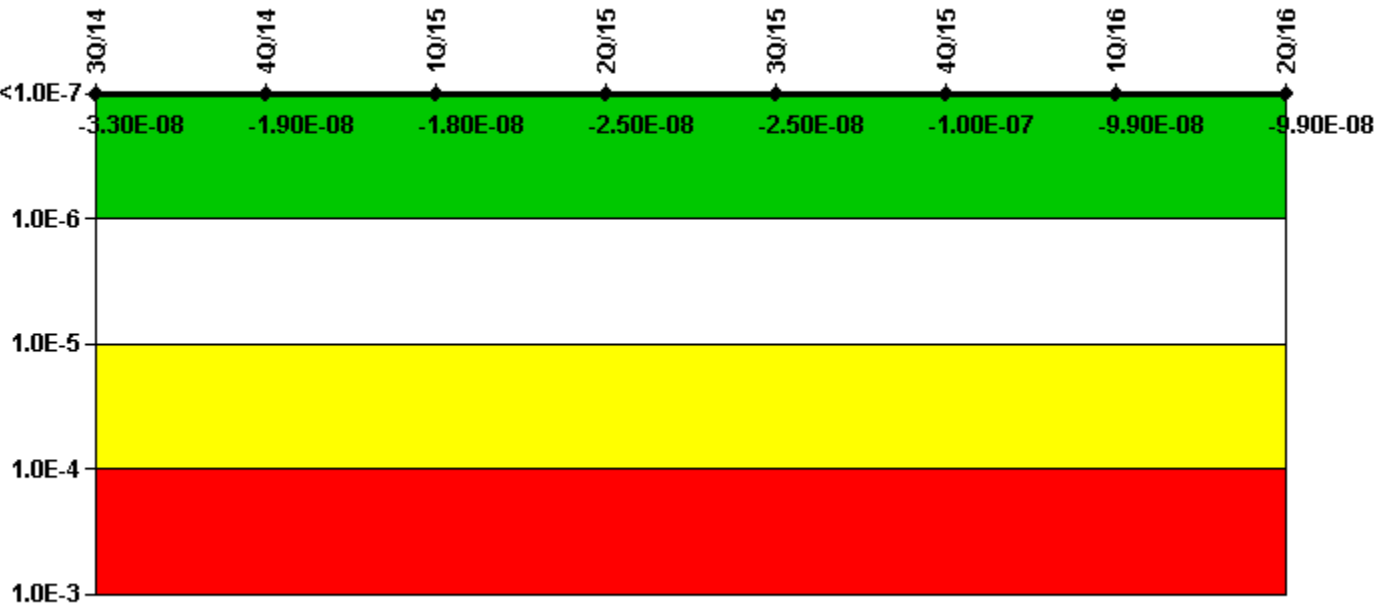
Notes

Safety System Functional Failures (PWR)	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Safety System Functional Failures	0	0	1	0	0	0	0	0
Indicator value	0	0	1	1	1	1	0	0

Licensee Comments:

2Q/15: An assessment revealed a SSFF for March 2015 (see LER 50-280, 50-281/2015-001-00). Historical data was corrected with no change in color.

Mitigating Systems Performance Index, Emergency AC Power System



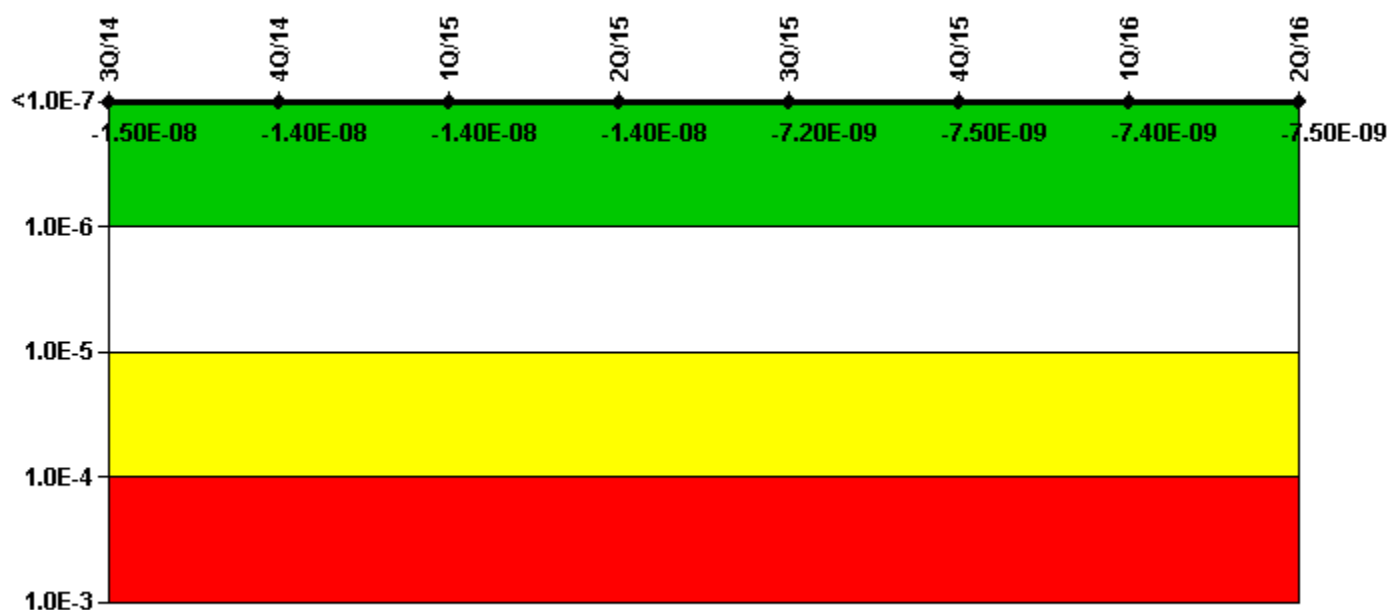
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (ΔCDF)	-1.39E-08	-2.75E-09	-2.74E-09	-2.64E-09	-2.49E-09	-4.87E-09	-4.88E-09	-4.55E-09
URI (ΔCDF)	-1.96E-08	-1.61E-08	-1.50E-08	-2.24E-08	-2.27E-08	-9.54E-08	-9.42E-08	-9.46E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.30E-08	-1.90E-08	-1.80E-08	-2.50E-08	-2.50E-08	-1.00E-07	-9.90E-08	-9.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

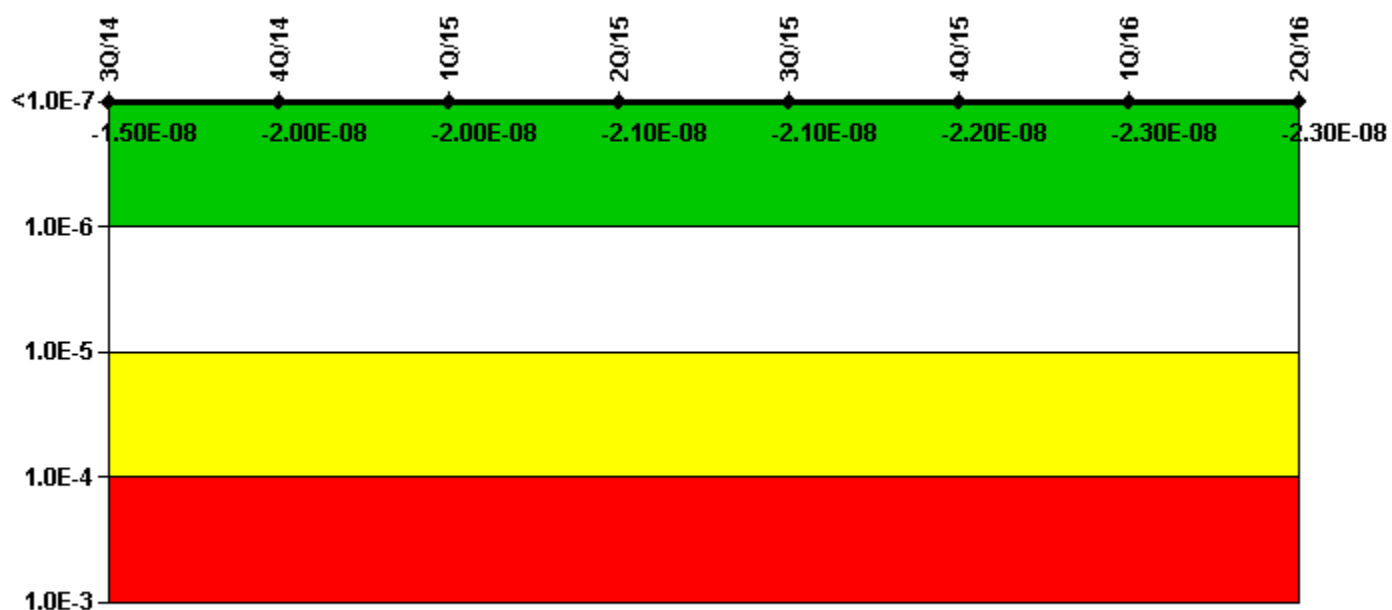
Mitigating Systems Performance Index, High Pressure Injection System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	-8.26E-10	-7.99E-10	-9.98E-10	-9.95E-10	-9.71E-10	-9.82E-10	-1.06E-09	-1.06E-09
URI (Δ CDF)	-1.38E-08	-1.36E-08	-1.32E-08	-1.27E-08	-6.25E-09	-6.55E-09	-6.37E-09	-6.40E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.40E-08	-1.40E-08	-1.40E-08	-7.20E-09	-7.50E-09	-7.40E-09	-7.50E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Heat Removal System



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

Notes

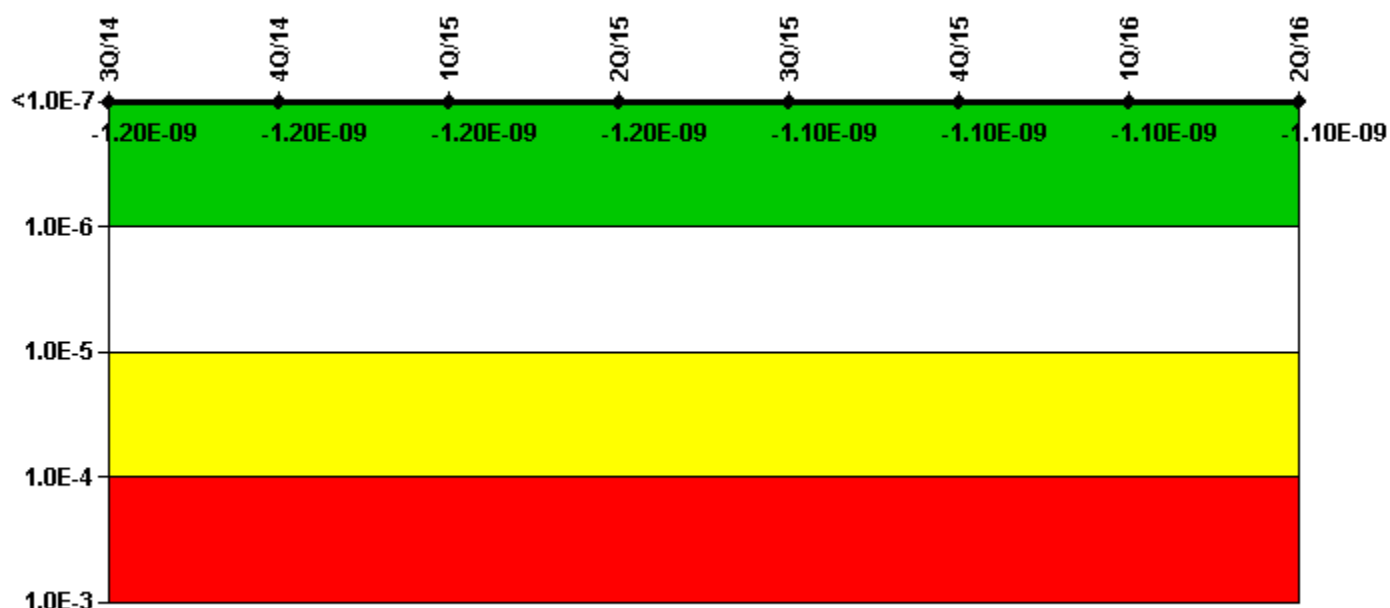
Mitigating Systems Performance Index, Heat Removal System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	1.48E-09	-2.13E-09	-2.02E-09	-2.62E-09	-2.31E-09	-2.61E-09	-2.60E-09	-2.80E-09
URI (Δ CDF)	-1.69E-08	-1.74E-08	-1.79E-08	-1.79E-08	-1.85E-08	-1.95E-08	-2.00E-08	-2.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-2.00E-08	-2.00E-08	-2.10E-08	-2.10E-08	-2.20E-08	-2.30E-08	-2.30E-08

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

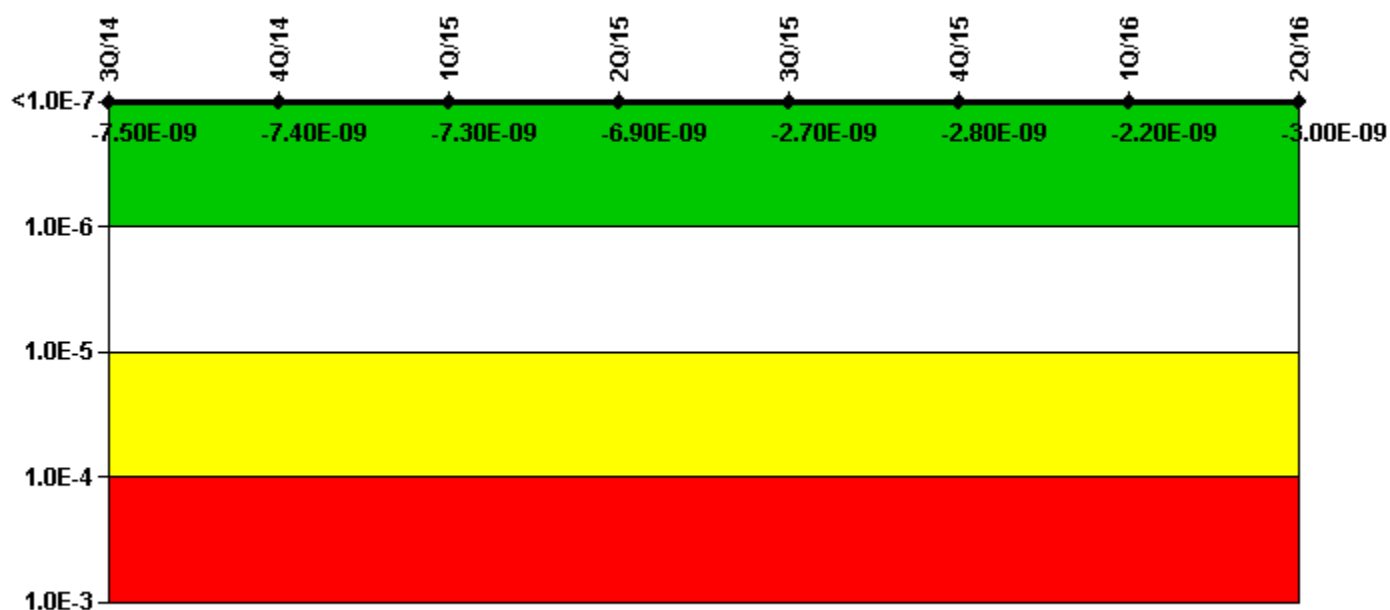
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	-2.55E-10	-2.55E-10	-2.70E-10	-2.70E-10	-1.41E-10	-1.36E-10	-1.36E-10	-1.36E-10
URI (Δ CDF)	-9.03E-10	-9.03E-10	-9.03E-10	-9.27E-10	-9.46E-10	-9.46E-10	-9.55E-10	-9.36E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	3.04E-09	3.25E-09	3.15E-09	3.13E-09	3.12E-09	2.98E-09	3.01E-09	3.03E-09
URI (Δ CDF)	-1.05E-08	-1.07E-08	-1.05E-08	-1.00E-08	-5.83E-09	-5.76E-09	-5.24E-09	-6.03E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.50E-09	-7.40E-09	-7.30E-09	-6.90E-09	-2.70E-09	-2.80E-09	-2.20E-09	-3.00E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

Reactor Coolant System Activity



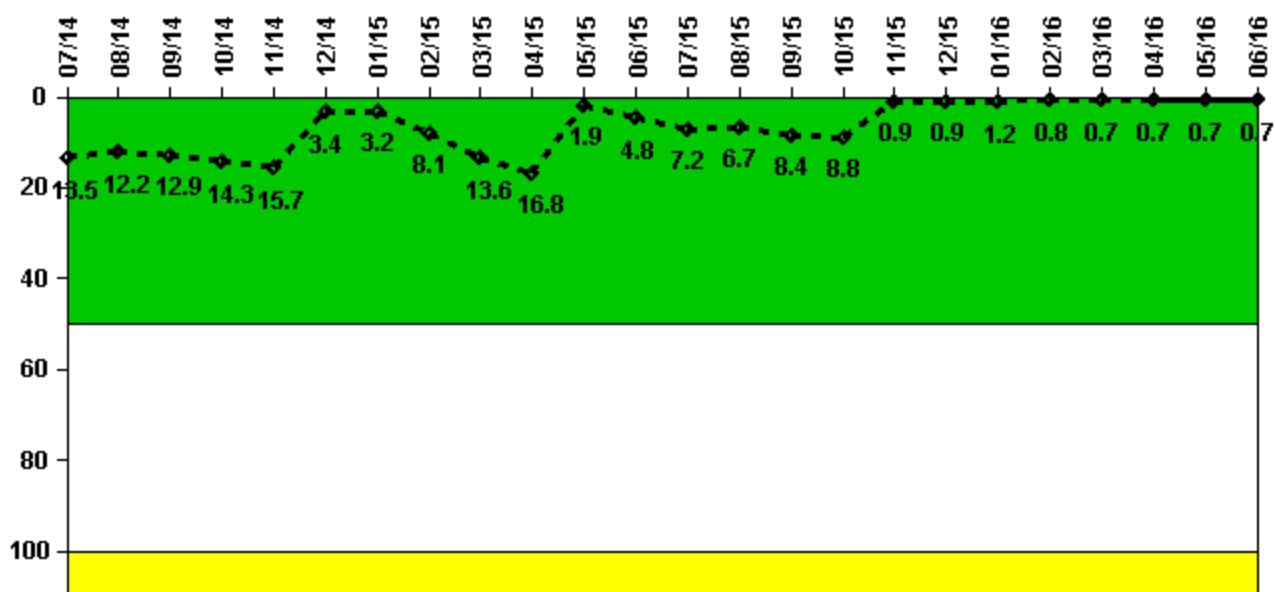
Thresholds: White > 50.0 Yellow > 100.0

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	0.000828	0.000910	0.000928	0.000929	0.001020	0.001030	0.001140	0.001110	0.001280	0.001190	0.000171	0.000544
Technical specification limit	1.0	1.0	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	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	0.000573	0.000576	0.000710	0.000620	0.000813	0.000903	0.000789	0.000840	0.000893	0.000943	0.000895	0.001120
Technical specification limit	1.0	1.0	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

Reactor Coolant System Leakage



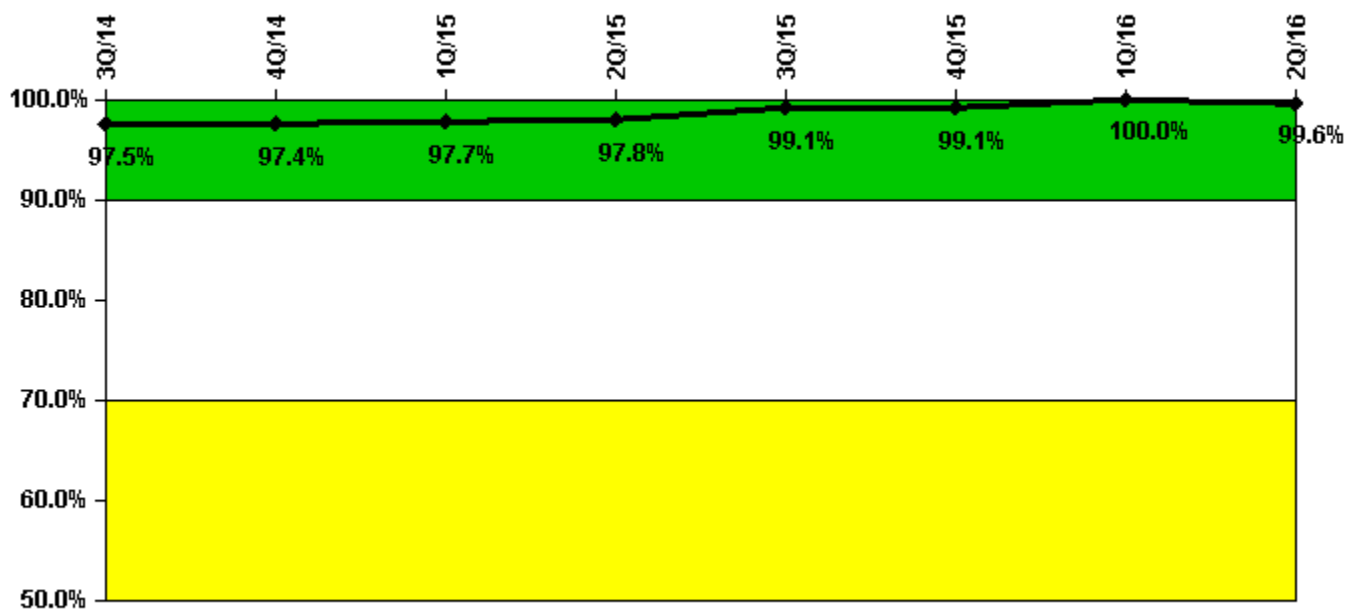
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum leakage	1.350	1.220	1.290	1.430	1.570	0.340	0.320	0.810	1.360	1.680	0.190	0.480
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	13.5	12.2	12.9	14.3	15.7	3.4	3.2	8.1	13.6	16.8	1.9	4.8
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	0.720	0.670	0.840	0.880	0.090	0.090	0.120	0.080	0.070	0.070	0.070	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	7.2	6.7	8.4	8.8	0.9	0.9	1.2	0.8	0.7	0.7	0.7	0.7

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

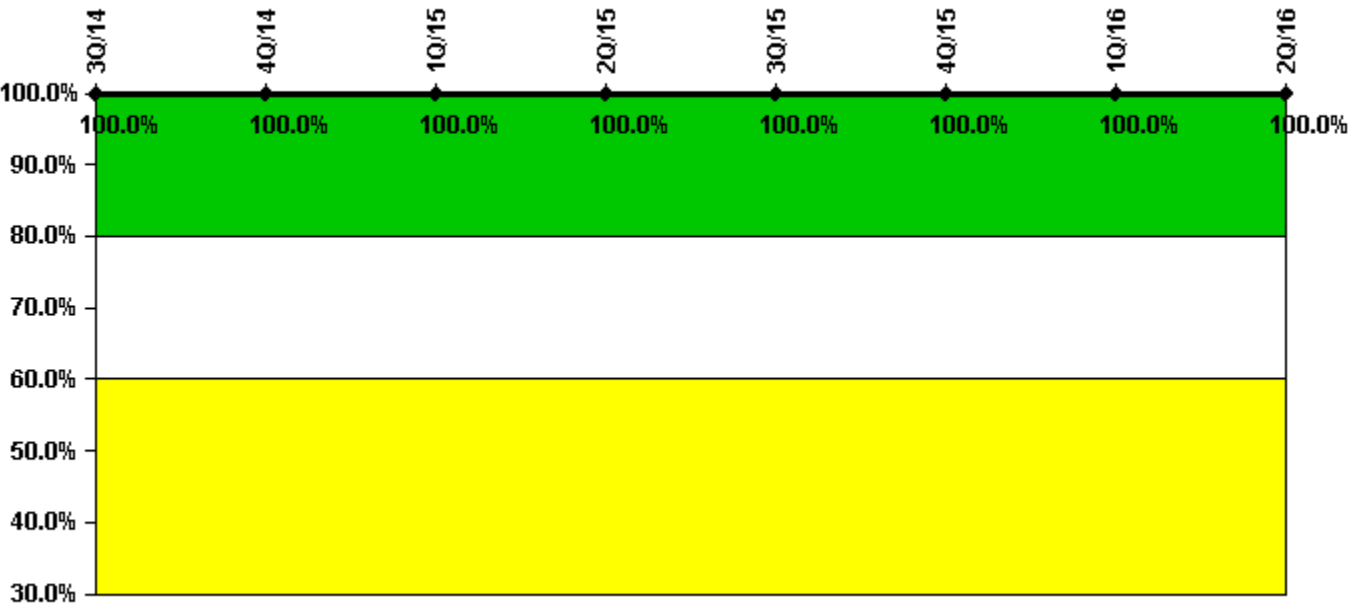
Notes

Drill/Exercise Performance	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful opportunities	33.0	19.0	31.0	31.0	35.0	20.0	39.0	43.0
Total opportunities	33.0	19.0	31.0	31.0	35.0	20.0	39.0	44.0
Indicator value	97.5%	97.4%	97.7%	97.8%	99.1%	99.1%	100.0%	99.6%

Licensee Comments:

3Q/14: Further review of a March 2014 ERO drill determined an initial successful DEP opportunity was not successful. Historical data was corrected with no change in color.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

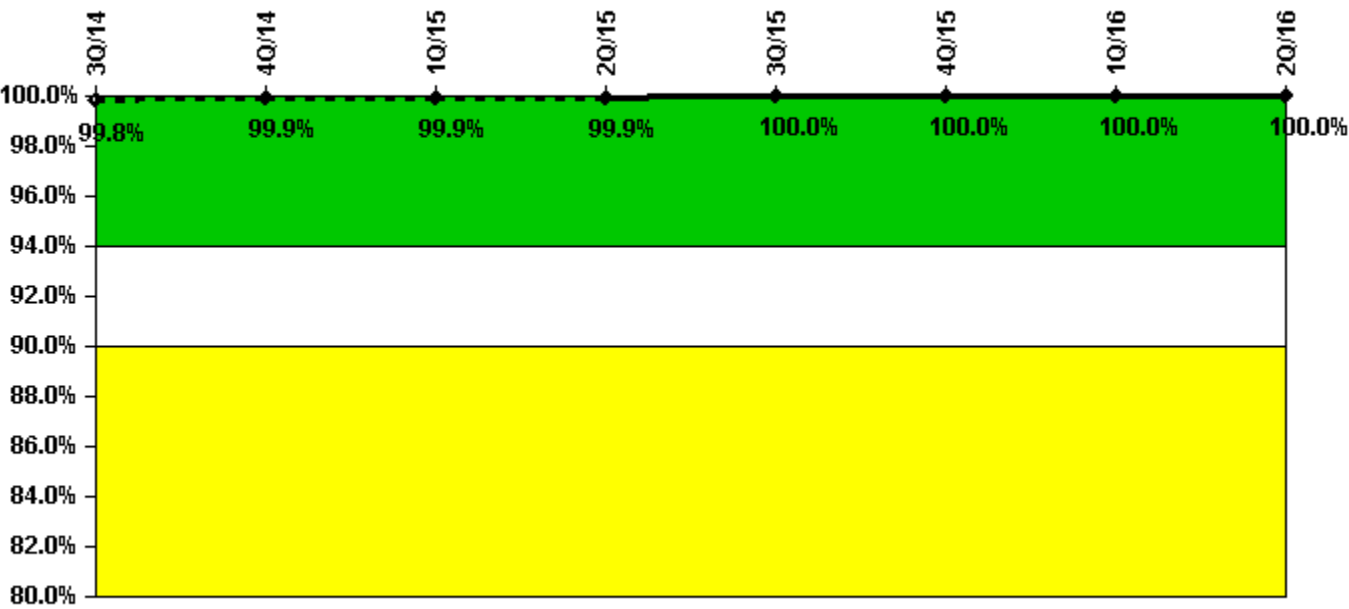
ERO Drill Participation	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Participating Key personnel	154.0	151.0	141.0	157.0	157.0	165.0	175.0	175.0
Total Key personnel	154.0	151.0	141.0	157.0	157.0	165.0	175.0	175.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/15: An assessment revealed additional key personnel for March 2015. Historical data was corrected with no change in color.

3Q/14: An assessment determined the total number of personnel in key ERO positions was inaccurate. Historical data was corrected with no change in color.

Alert & Notification System



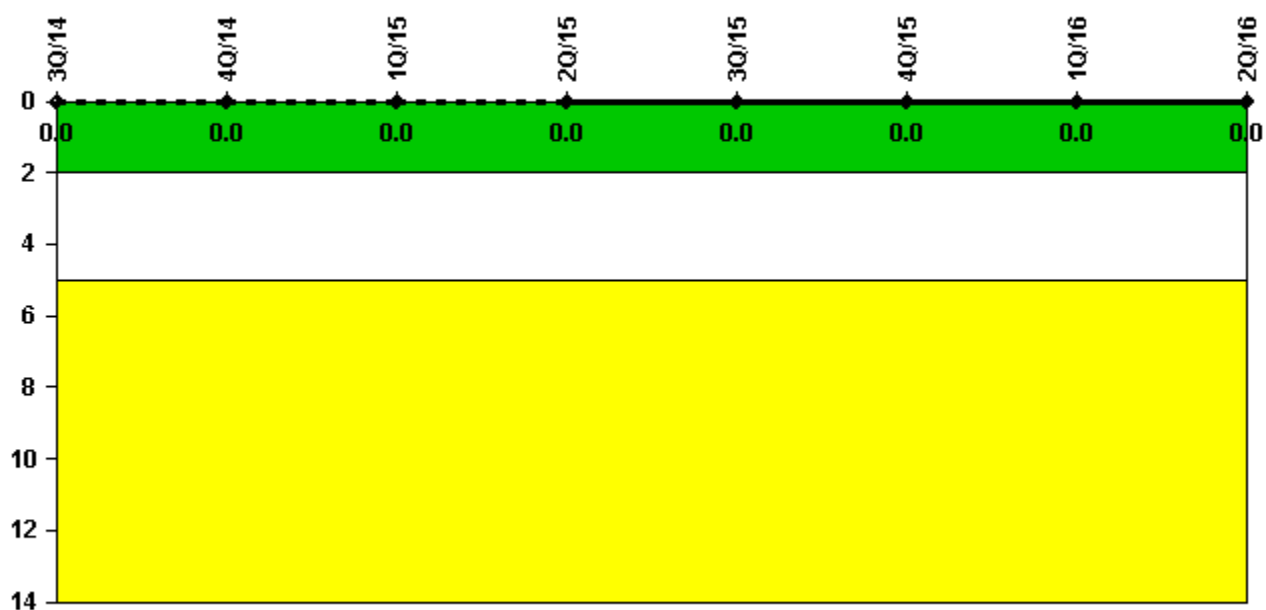
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful siren-tests	567	497	567	497	639	497	568	497
Total sirens-tests	568	497	568	497	639	497	568	497
Indicator value	99.8%	99.9%	99.9%	99.9%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



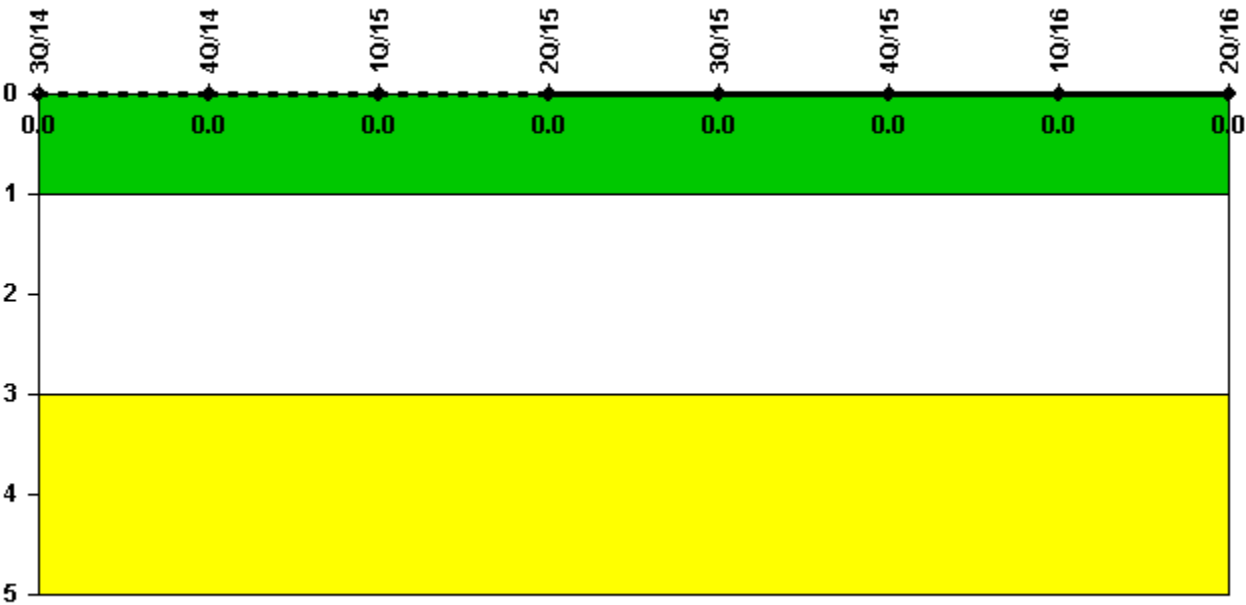
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	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

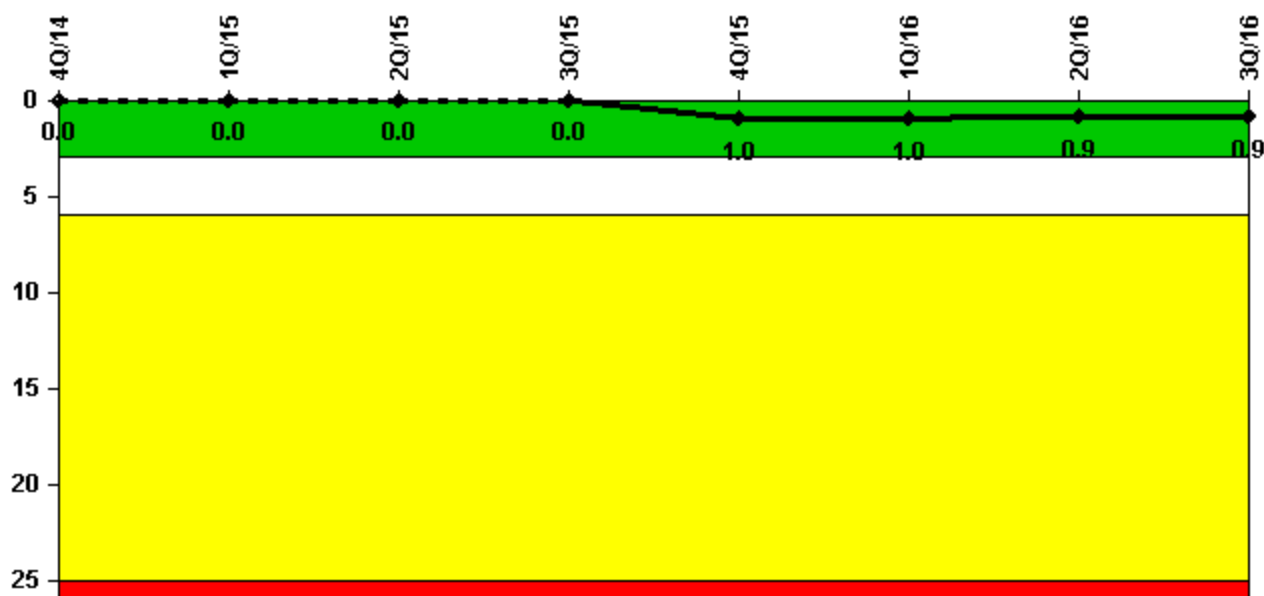
Surry 1

3Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



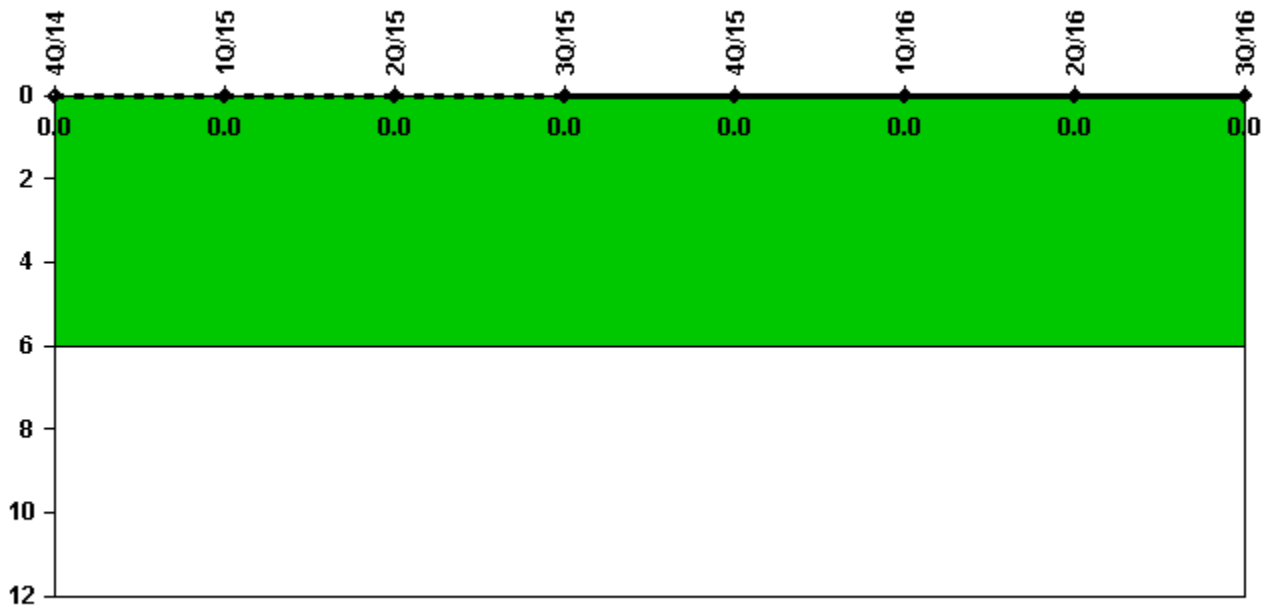
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2209.0	2159.0	1272.0	1952.3	1363.6	2183.0	2184.0	2208.0
Indicator value	0	0	0	0	1.0	1.0	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



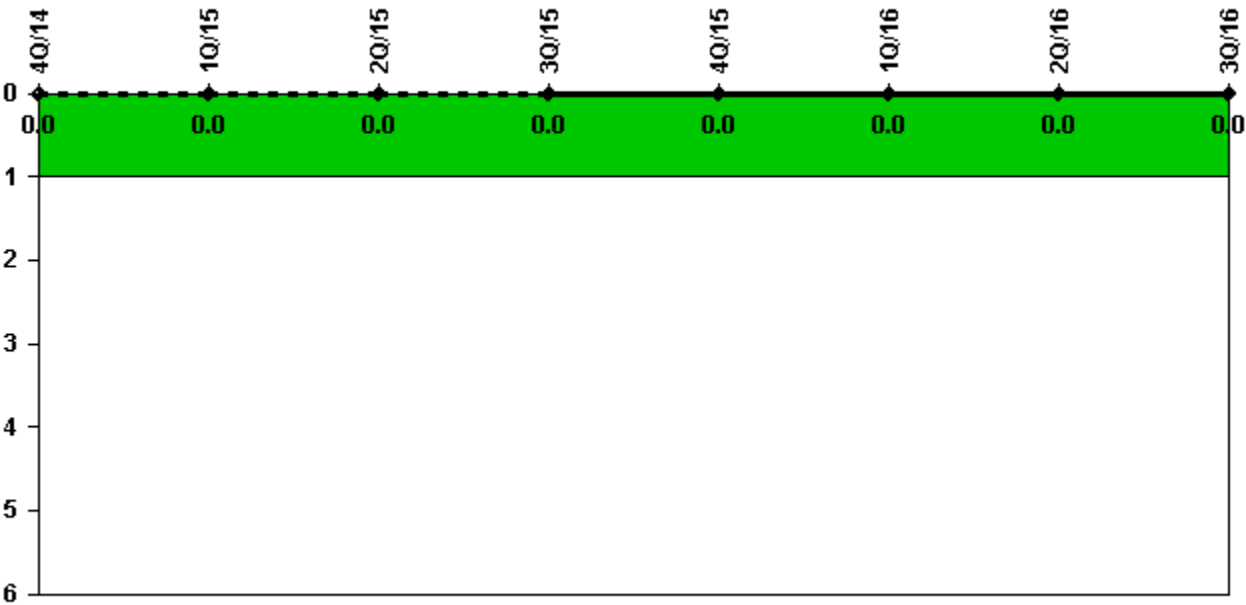
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	1272.0	1952.3	1363.6	2183.0	2184.0	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



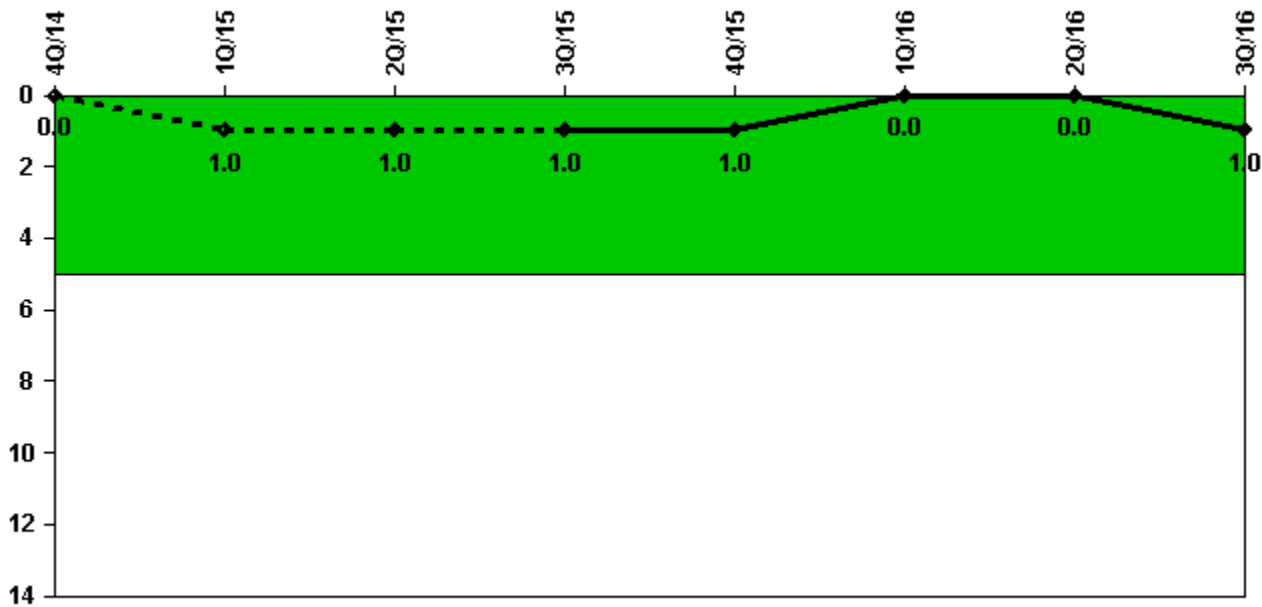
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

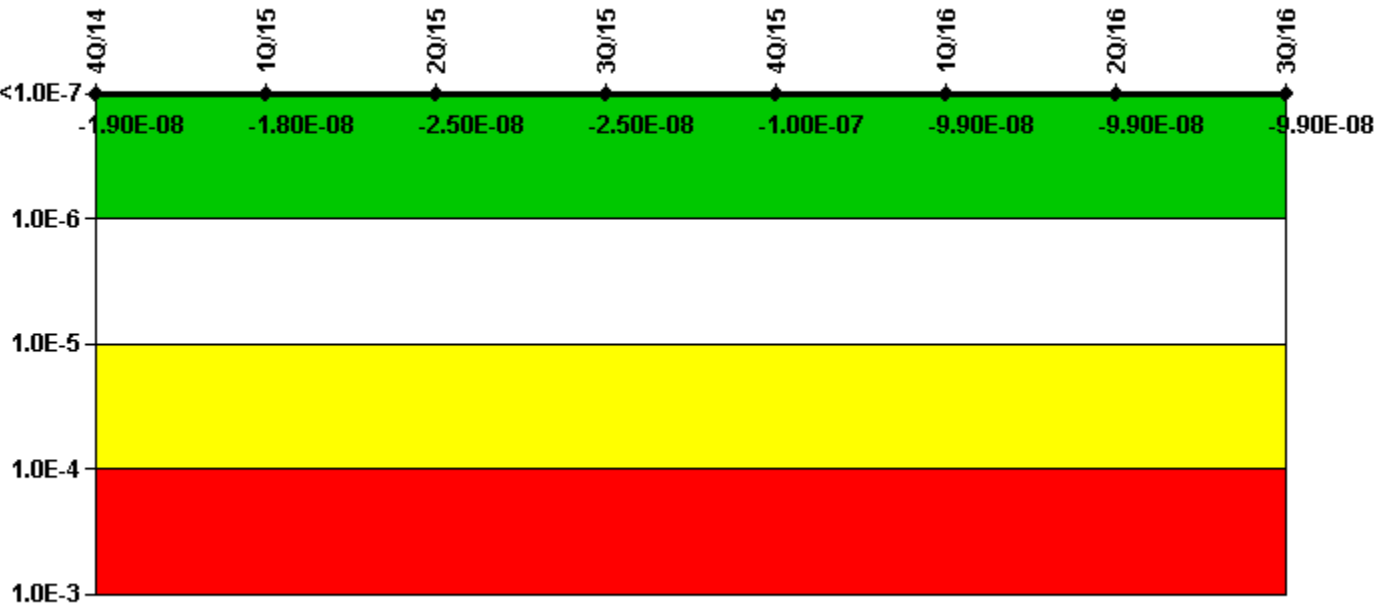
Notes

Safety System Functional Failures (PWR)	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Safety System Functional Failures	0	1	0	0	0	0	0	1
Indicator value	0	1	1	1	1	0	0	1

Licensee Comments:

2Q/15: An assessment revealed a SSFF for March 2015 (see LER 50-280, 50-281/2015-001-00). Historical data was corrected with no change in color.

Mitigating Systems Performance Index, Emergency AC Power System



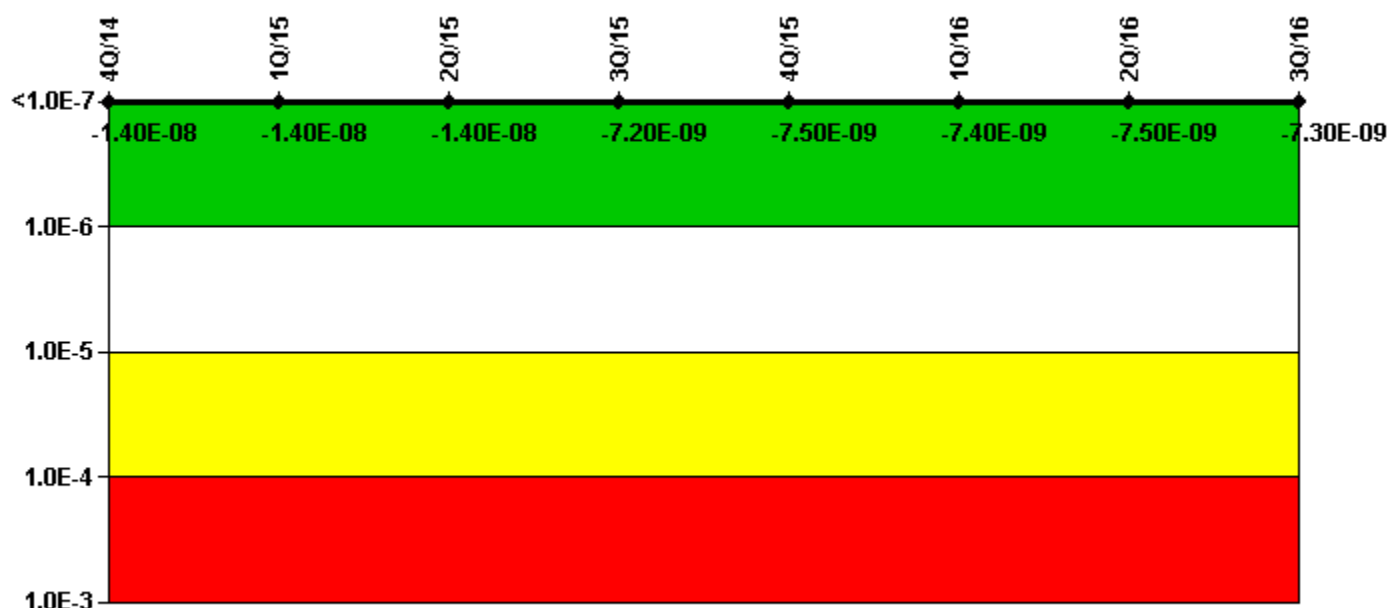
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (ΔCDF)	-2.75E-09	-2.74E-09	-2.64E-09	-2.49E-09	-4.87E-09	-4.88E-09	-4.55E-09	-4.55E-09
URI (ΔCDF)	-1.61E-08	-1.50E-08	-2.24E-08	-2.27E-08	-9.54E-08	-9.42E-08	-9.46E-08	-9.43E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-08	-1.80E-08	-2.50E-08	-2.50E-08	-1.00E-07	-9.90E-08	-9.90E-08	-9.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



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

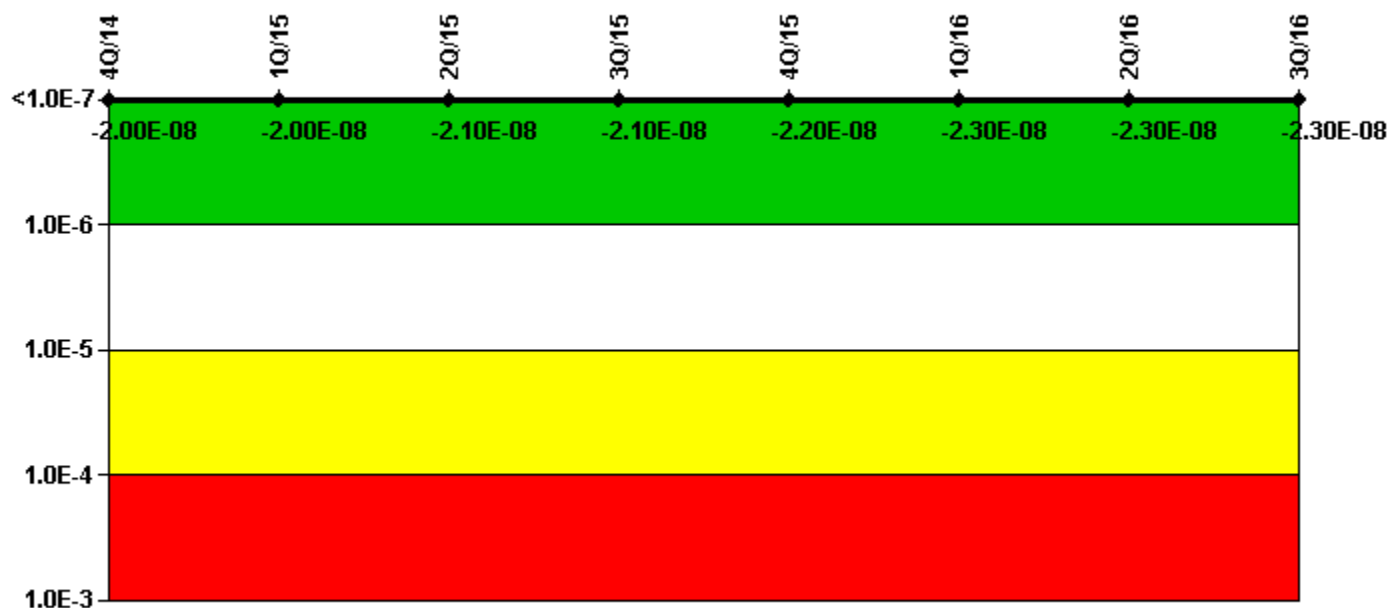
Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	-7.99E-10	-9.98E-10	-9.95E-10	-9.71E-10	-9.82E-10	-1.06E-09	-1.06E-09	-1.06E-09
URI (Δ CDF)	-1.36E-08	-1.32E-08	-1.27E-08	-6.25E-09	-6.55E-09	-6.37E-09	-6.40E-09	-6.27E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	-1.40E-08	-1.40E-08	-7.20E-09	-7.50E-09	-7.40E-09	-7.50E-09	-7.30E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

Mitigating Systems Performance Index, Heat Removal System



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

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	-2.13E-09	-2.02E-09	-2.62E-09	-2.31E-09	-2.61E-09	-2.60E-09	-2.80E-09	-3.01E-09
URI (Δ CDF)	-1.74E-08	-1.79E-08	-1.79E-08	-1.85E-08	-1.95E-08	-2.00E-08	-2.05E-08	-2.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-08	-2.00E-08	-2.10E-08	-2.10E-08	-2.20E-08	-2.30E-08	-2.30E-08	-2.30E-08

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

Mitigating Systems Performance Index, Residual Heat Removal System



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

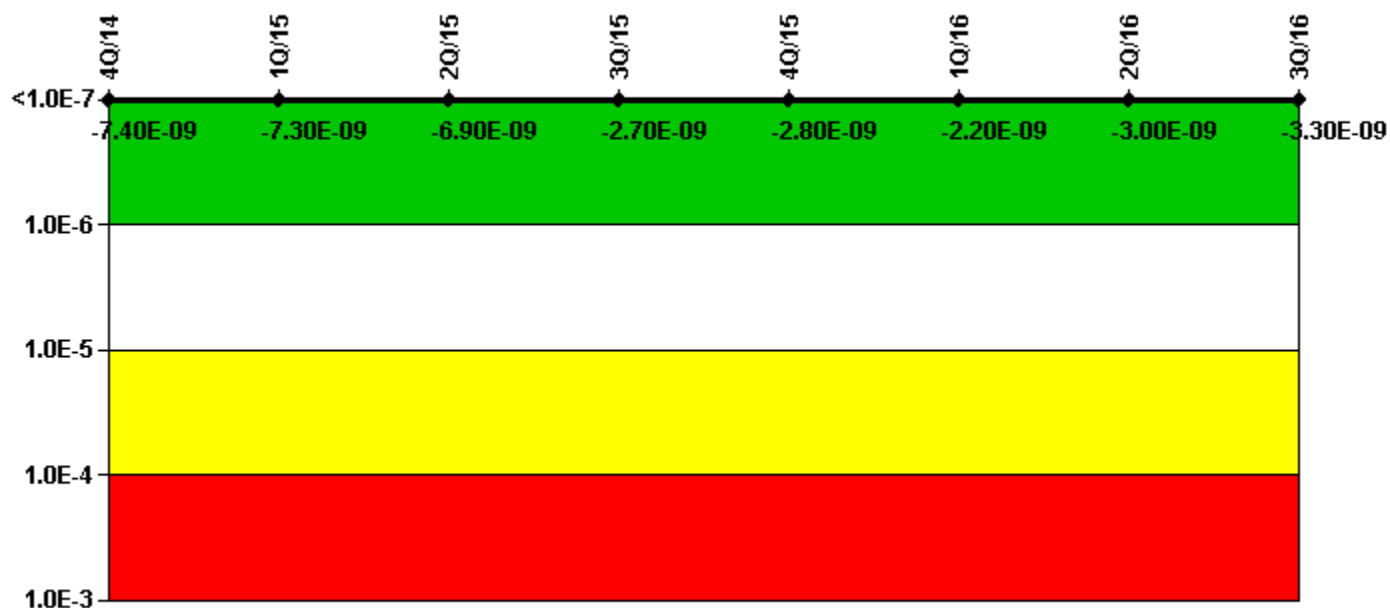
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	-2.55E-10	-2.70E-10	-2.70E-10	-1.41E-10	-1.36E-10	-1.36E-10	-1.36E-10	-1.36E-10
URI (Δ CDF)	-9.03E-10	-9.03E-10	-9.27E-10	-9.46E-10	-9.46E-10	-9.55E-10	-9.36E-10	-9.46E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-1.20E-09	-1.20E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

Mitigating Systems Performance Index, Cooling Water Systems



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

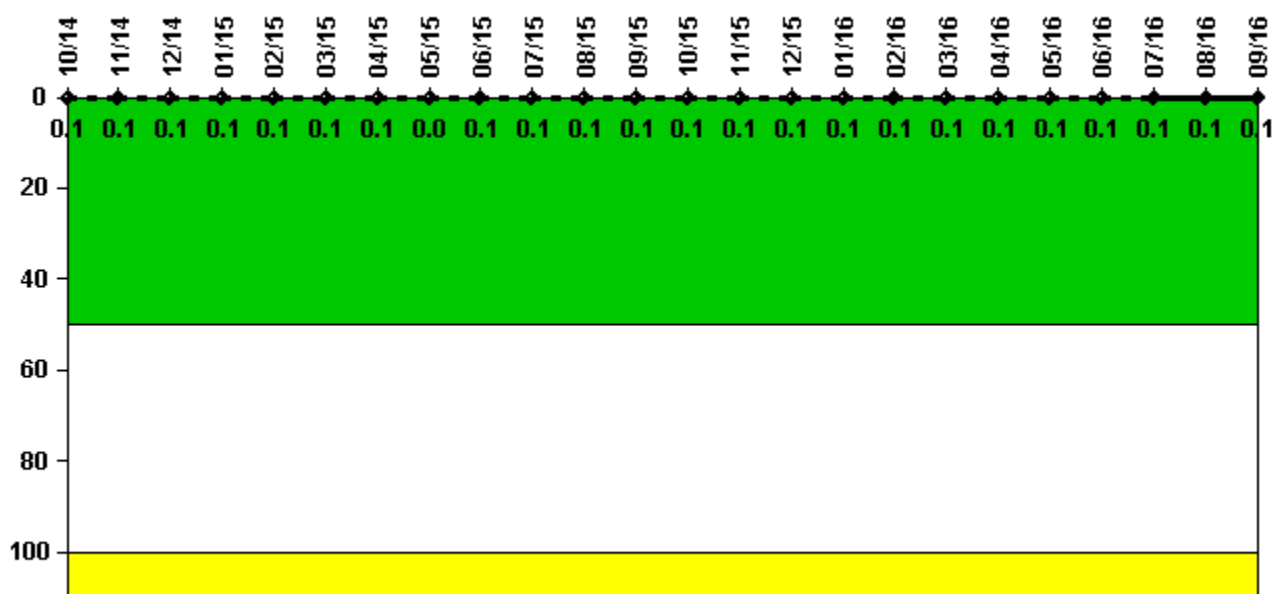
Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	3.25E-09	3.15E-09	3.13E-09	3.12E-09	2.98E-09	3.01E-09	3.03E-09	2.98E-09
URI (Δ CDF)	-1.07E-08	-1.05E-08	-1.00E-08	-5.83E-09	-5.76E-09	-5.24E-09	-6.03E-09	-6.27E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.40E-09	-7.30E-09	-6.90E-09	-2.70E-09	-2.80E-09	-2.20E-09	-3.00E-09	-3.30E-09

Licensee Comments:

4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

Reactor Coolant System Activity



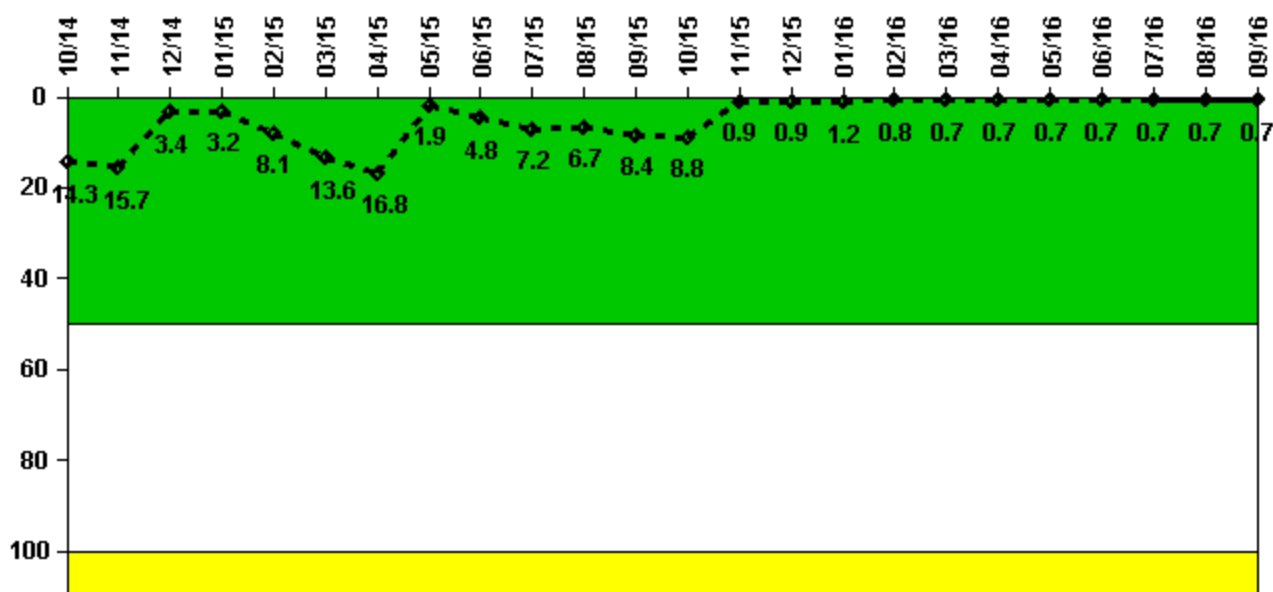
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum activity	0.000929	0.001020	0.001030	0.001140	0.001110	0.001280	0.001190	0.000171	0.000544	0.000573	0.000576	0.000710
Technical specification limit	1.0	1.0	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	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	0.000620	0.000813	0.000903	0.000789	0.000840	0.000893	0.000943	0.000895	0.001120	0.001110	0.001090	0.001070
Technical specification limit	1.0	1.0	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

Reactor Coolant System Leakage



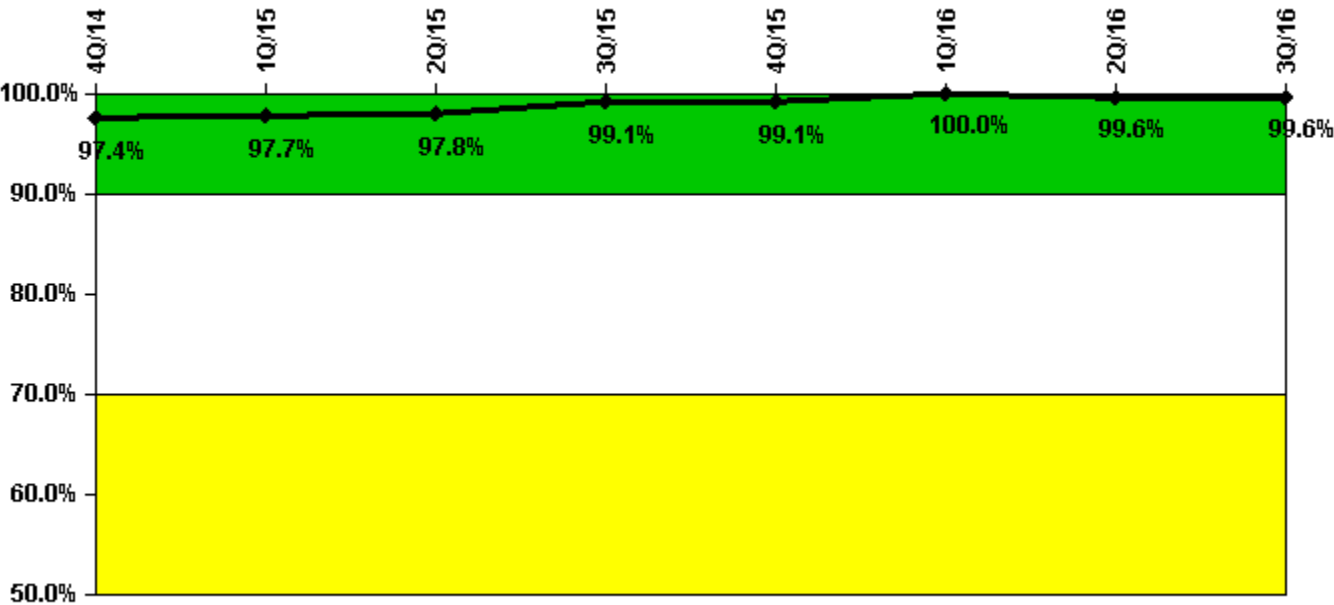
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum leakage	1.430	1.570	0.340	0.320	0.810	1.360	1.680	0.190	0.480	0.720	0.670	0.840
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	14.3	15.7	3.4	3.2	8.1	13.6	16.8	1.9	4.8	7.2	6.7	8.4
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	0.880	0.090	0.090	0.120	0.080	0.070	0.070	0.070	0.070	0.070	0.070	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	8.8	0.9	0.9	1.2	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7

Licensee Comments: none

Drill/Exercise Performance



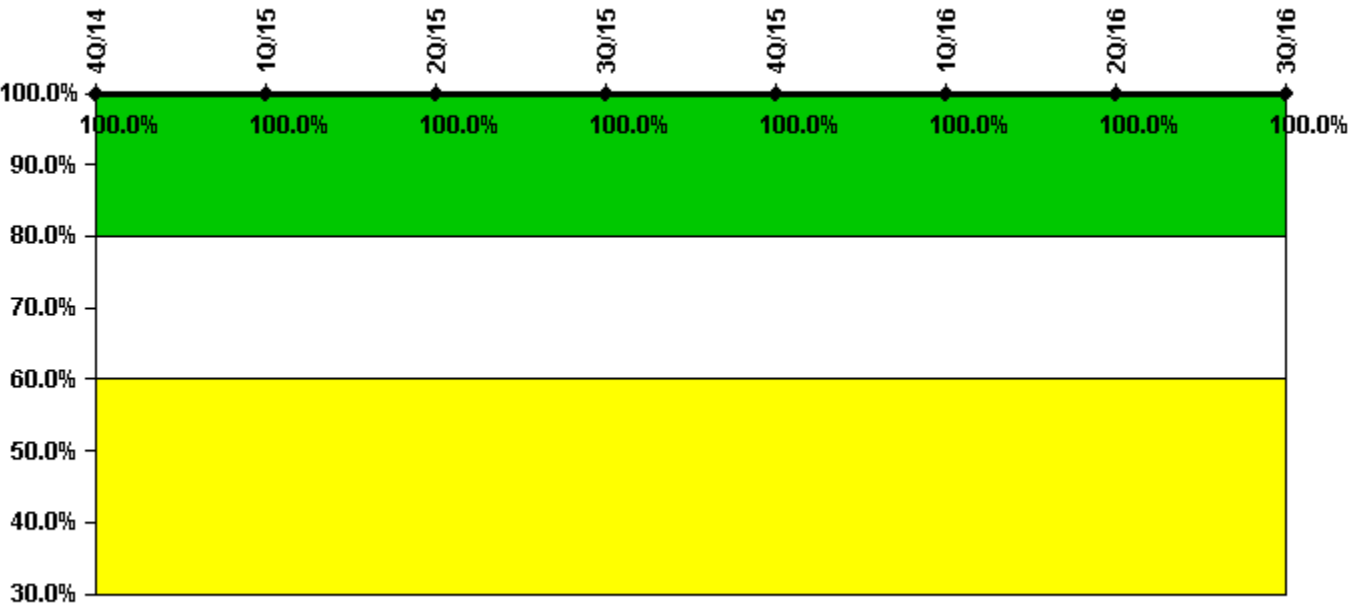
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful opportunities	19.0	31.0	31.0	35.0	20.0	39.0	45.0	21.0
Total opportunities	19.0	31.0	31.0	35.0	20.0	39.0	46.0	21.0
Indicator value	97.4%	97.7%	97.8%	99.1%	99.1%	100.0%	99.6%	99.6%

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

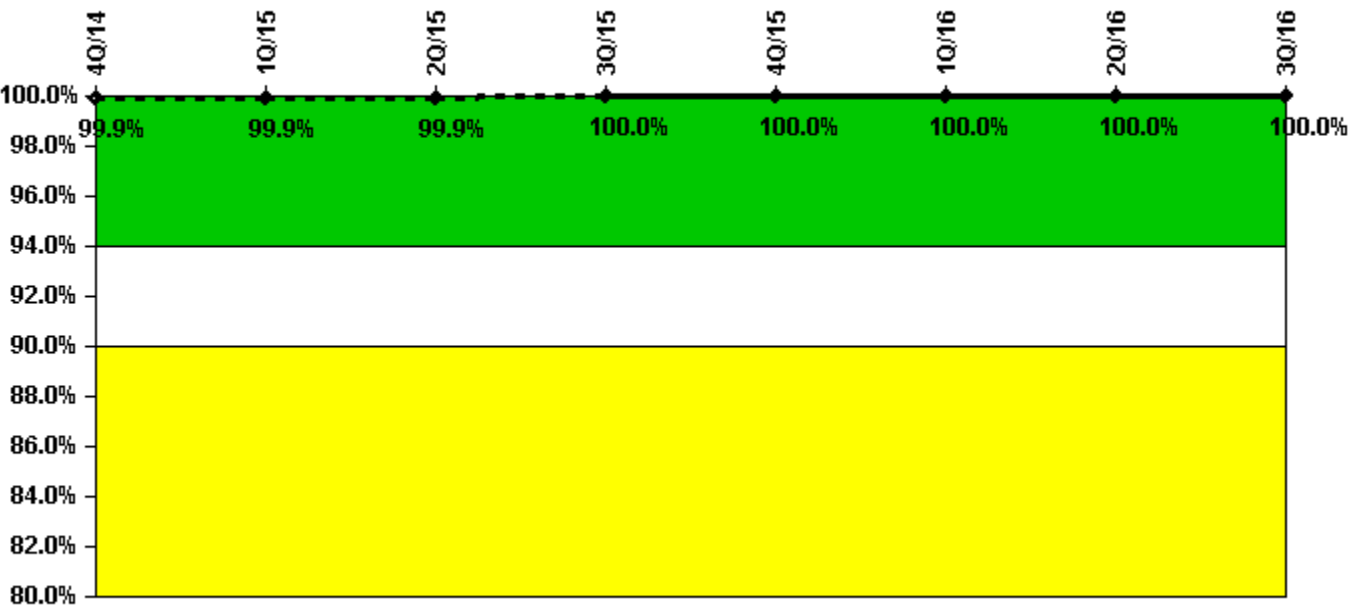
Notes

ERO Drill Participation	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Participating Key personnel	151.0	141.0	157.0	157.0	165.0	175.0	176.0	183.0
Total Key personnel	151.0	141.0	157.0	157.0	165.0	175.0	176.0	183.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/15: An assessment revealed additional key personnel for March 2015. Historical data was corrected with no change in color.

Alert & Notification System



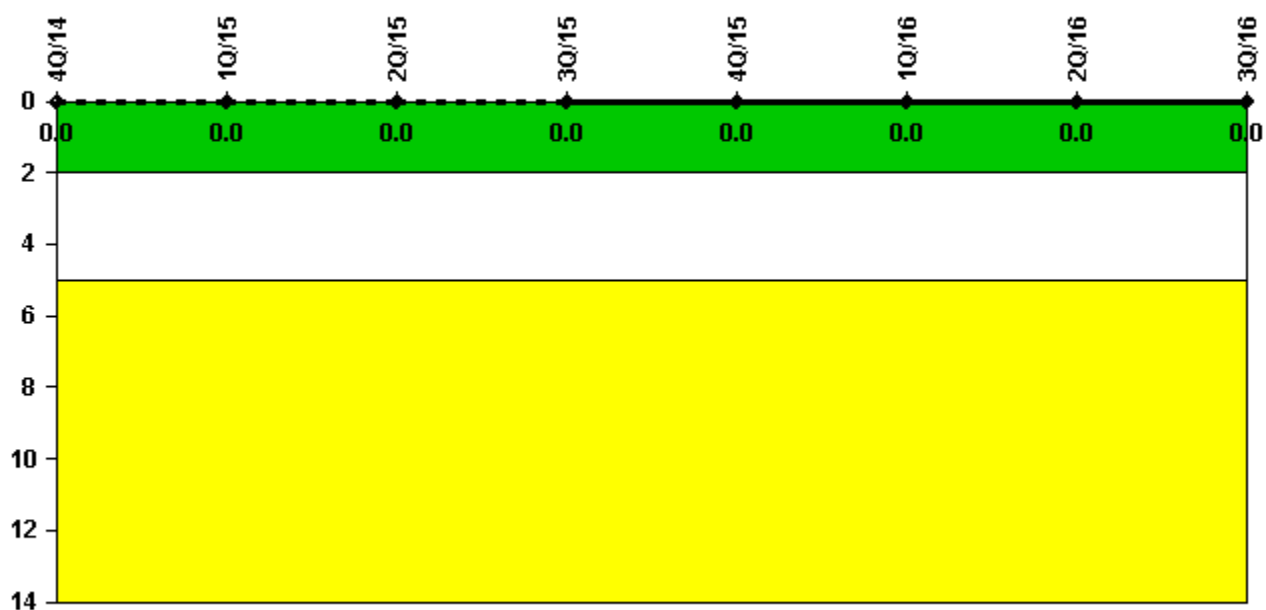
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful siren-tests	497	567	497	568	497	568	497	568
Total sirens-tests	497	568	497	568	497	568	497	568
Indicator value	99.9%	99.9%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



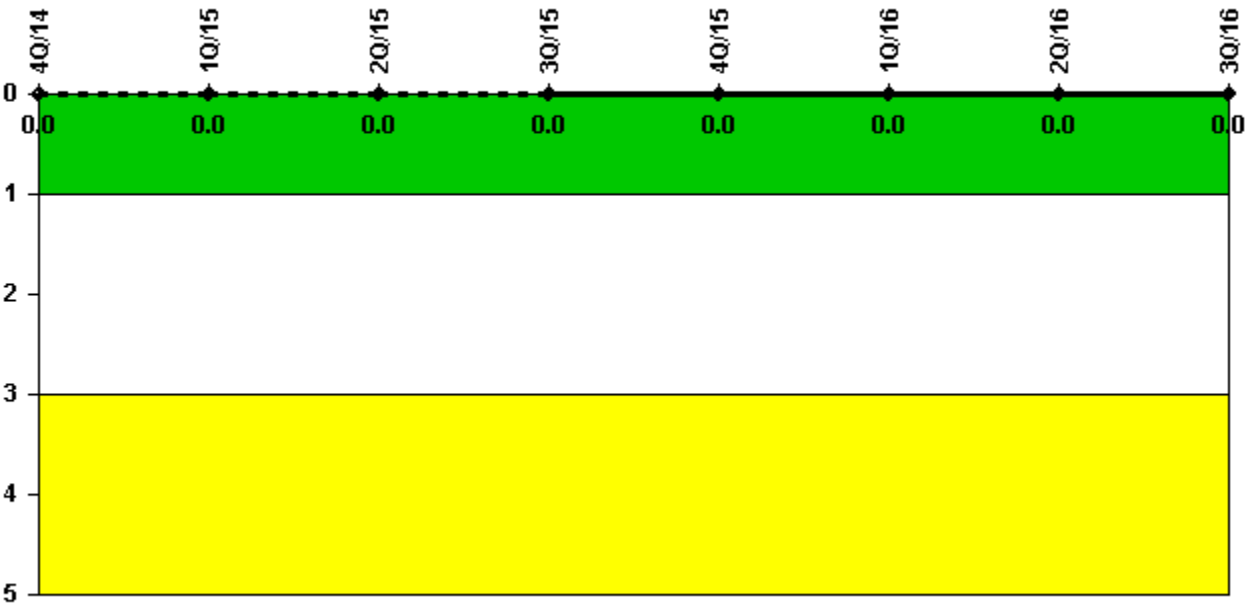
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	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

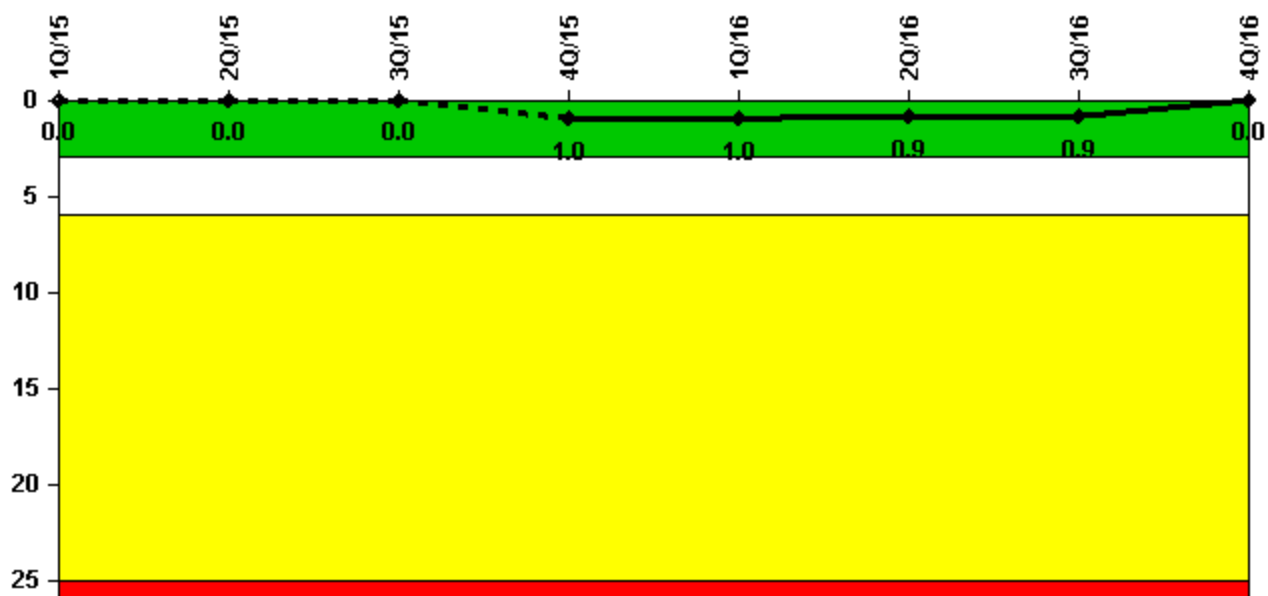
Surry 1

4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



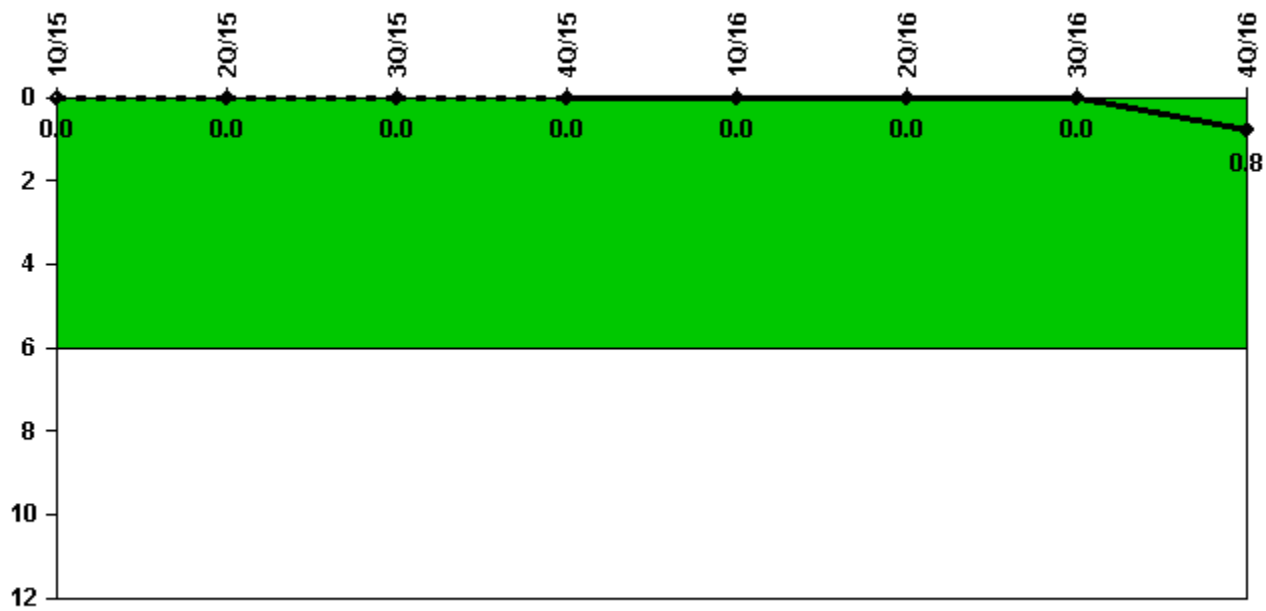
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2159.0	1272.0	1952.3	1363.6	2183.0	2184.0	2208.0	1736.7
Indicator value	0	0	0	1.0	1.0	0.9	0.9	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



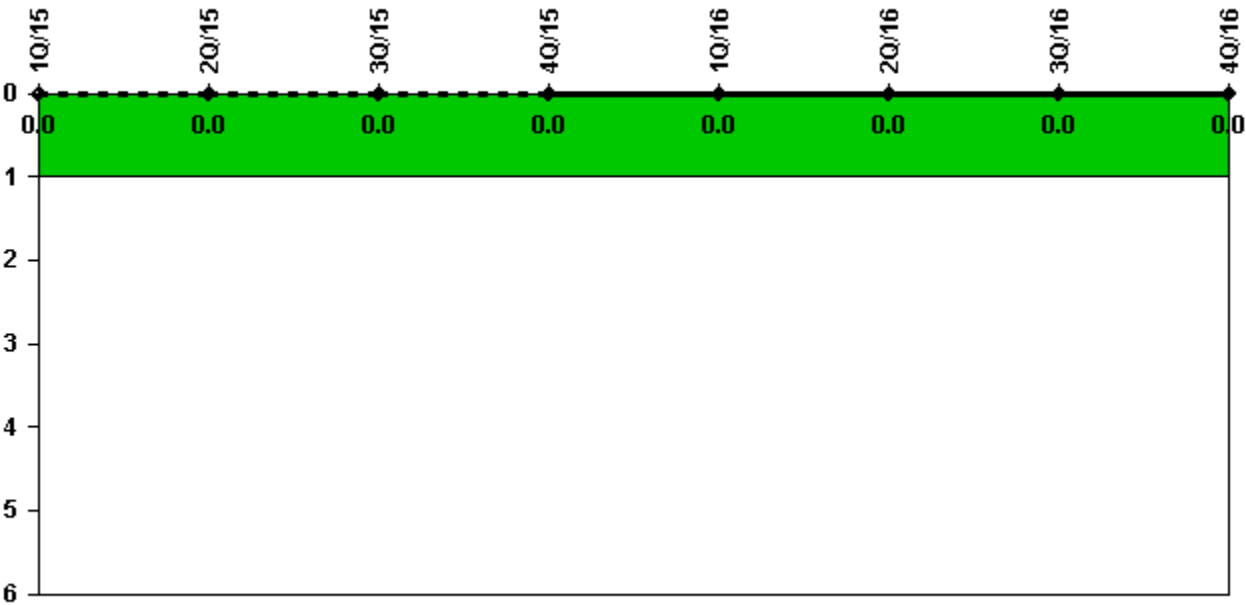
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2159.0	1272.0	1952.3	1363.6	2183.0	2184.0	2208.0	1736.7
Indicator value	0	0	0	0	0	0	0	0.8

Licensee Comments: none

Unplanned Scrams with Complications



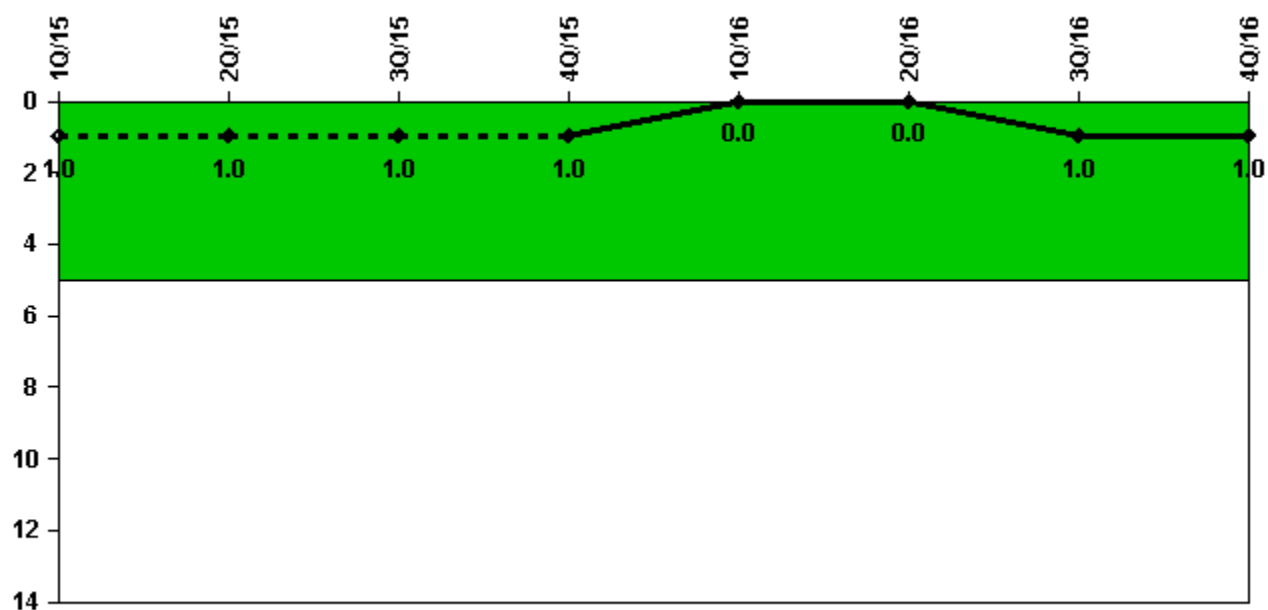
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	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	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

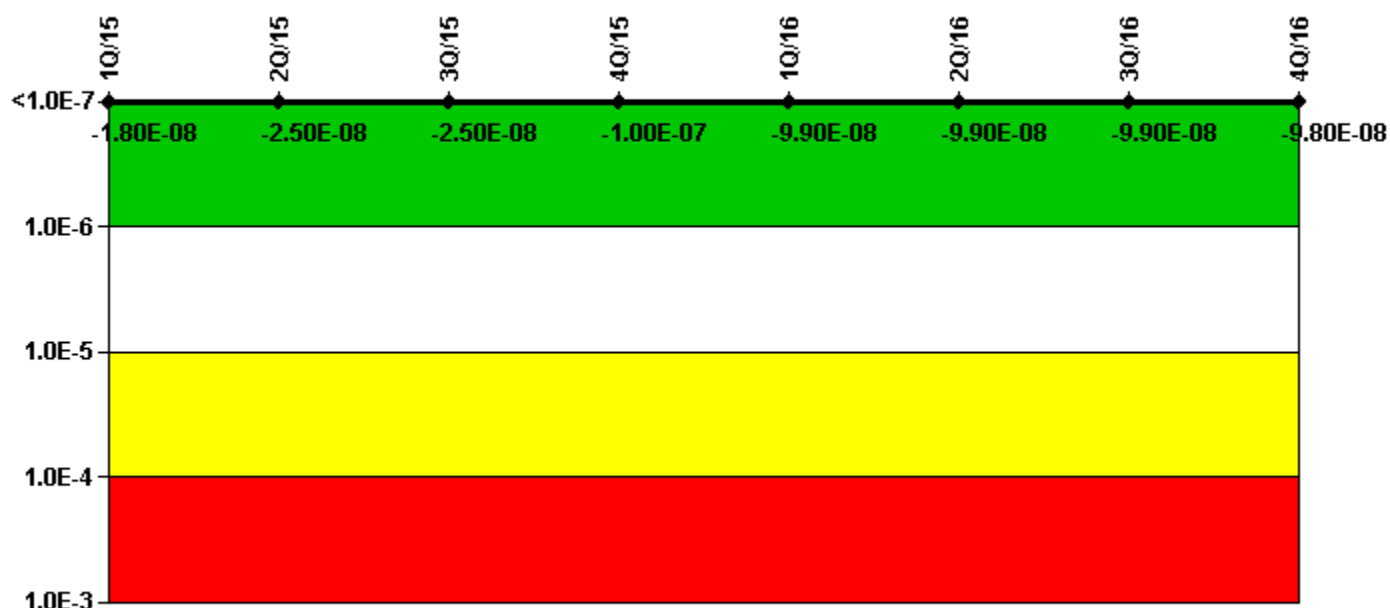
Notes

Safety System Functional Failures (PWR)	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Safety System Functional Failures	1	0	0	0	0	0	1	0
Indicator value	1	1	1	1	0	0	1	1

Licensee Comments:

2Q/15: An assessment revealed a SSFF for March 2015 (see LER 50-280, 50-281/2015-001-00). Historical data was corrected with no change in color.

Mitigating Systems Performance Index, Emergency AC Power System



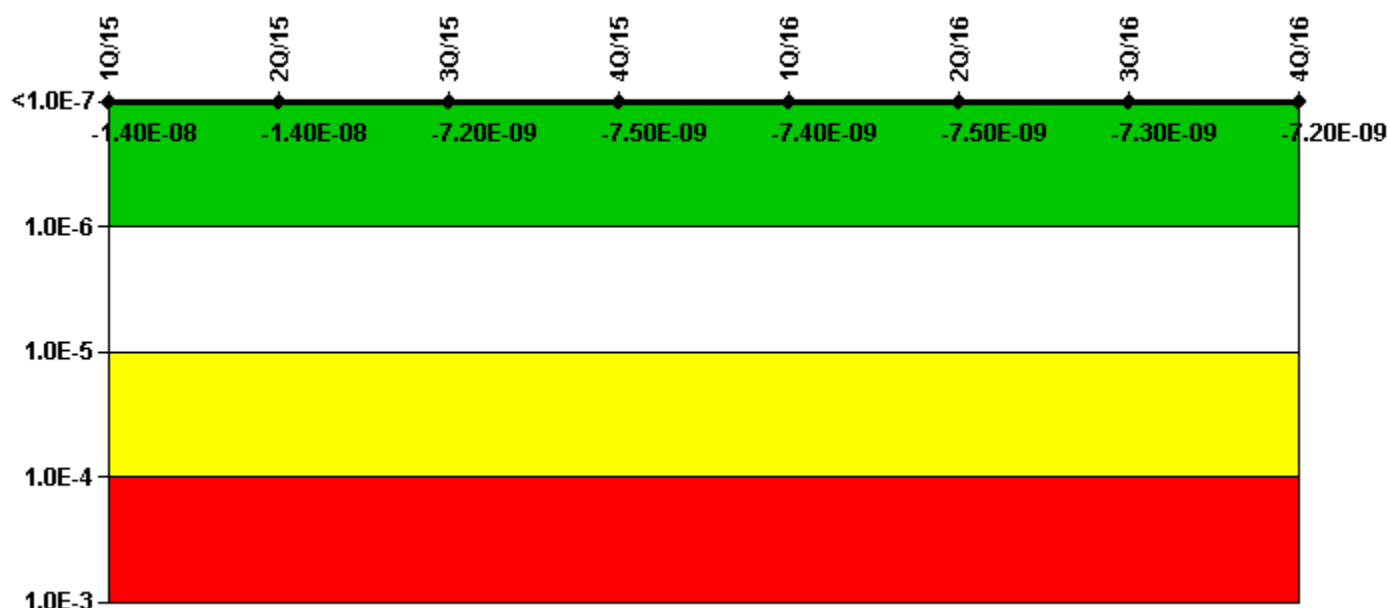
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-2.74E-09	-2.64E-09	-2.49E-09	-4.87E-09	-4.88E-09	-4.55E-09	-4.55E-09	-4.70E-09
URI (Δ CDF)	-1.50E-08	-2.24E-08	-2.27E-08	-9.54E-08	-9.42E-08	-9.46E-08	-9.43E-08	-9.33E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-2.50E-08	-2.50E-08	-1.00E-07	-9.90E-08	-9.90E-08	-9.90E-08	-9.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



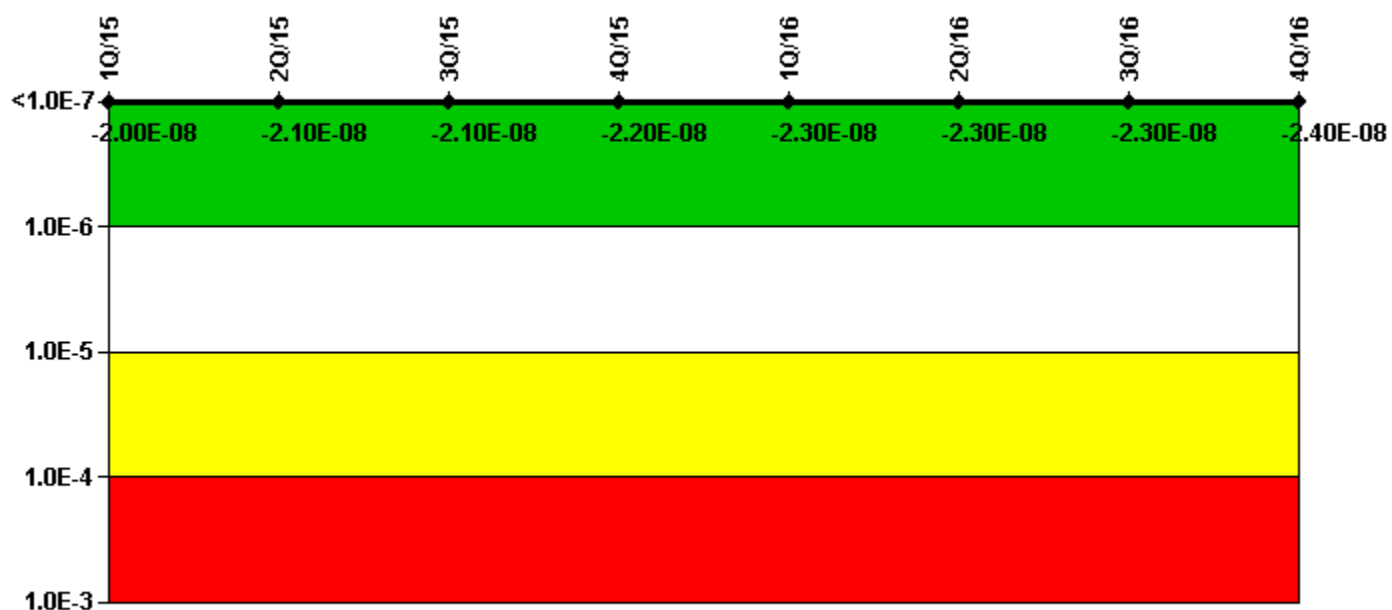
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-9.98E-10	-9.95E-10	-9.71E-10	-9.82E-10	-1.06E-09	-1.06E-09	-1.06E-09	-1.06E-09
URI (Δ CDF)	-1.32E-08	-1.27E-08	-6.25E-09	-6.55E-09	-6.37E-09	-6.40E-09	-6.27E-09	-6.16E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	-1.40E-08	-7.20E-09	-7.50E-09	-7.40E-09	-7.50E-09	-7.30E-09	-7.20E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



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

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-2.02E-09	-2.62E-09	-2.31E-09	-2.61E-09	-2.60E-09	-2.80E-09	-3.01E-09	-3.83E-09
URI (Δ CDF)	-1.79E-08	-1.79E-08	-1.85E-08	-1.95E-08	-2.00E-08	-2.05E-08	-2.05E-08	-2.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-08	-2.10E-08	-2.10E-08	-2.20E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



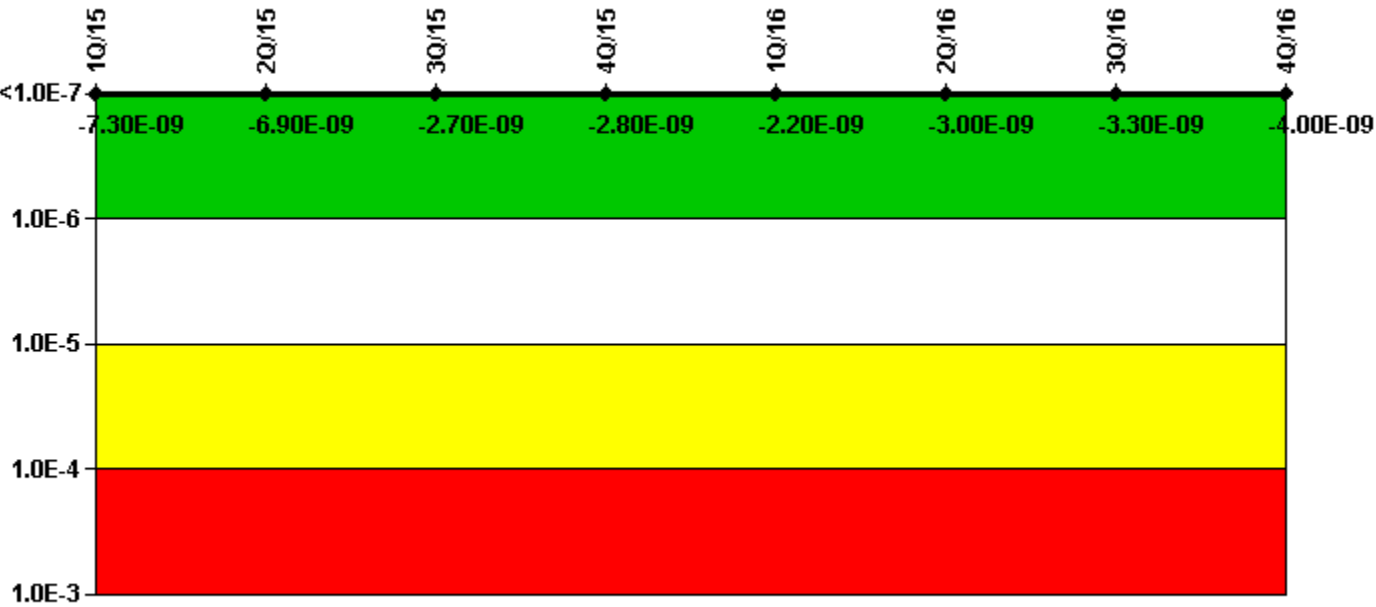
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-2.70E-10	-2.70E-10	-1.41E-10	-1.36E-10	-1.36E-10	-1.36E-10	-1.36E-10	-1.38E-10
URI (Δ CDF)	-9.03E-10	-9.27E-10	-9.46E-10	-9.46E-10	-9.55E-10	-9.36E-10	-9.46E-10	-9.67E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-1.20E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



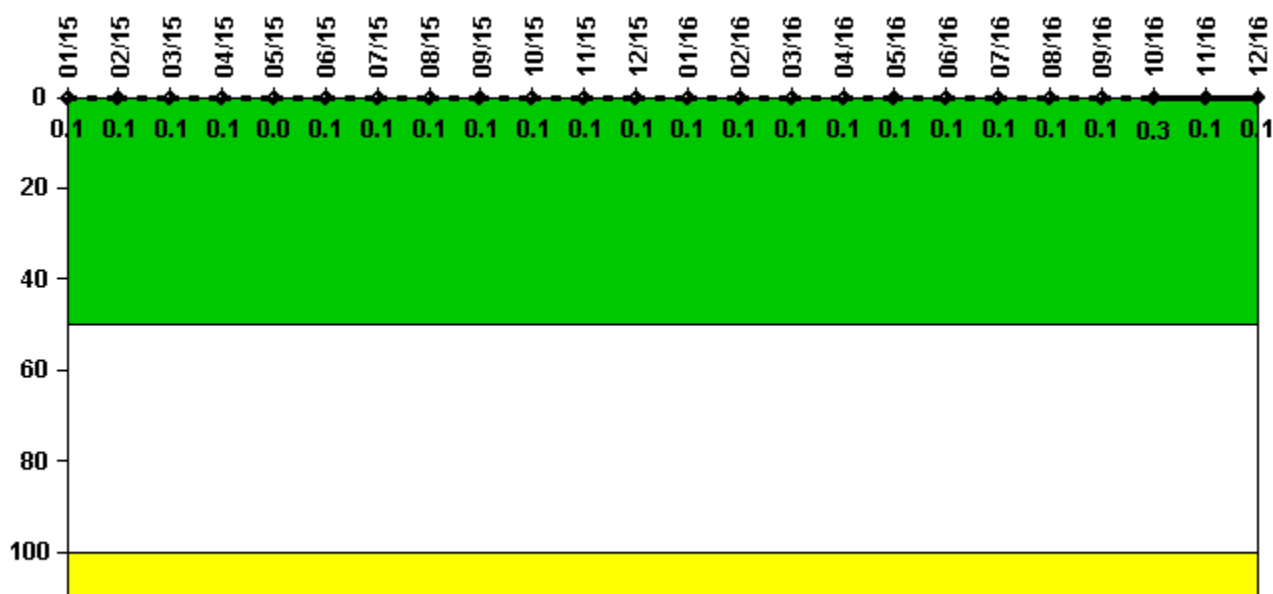
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (ΔCDF)	3.15E-09	3.13E-09	3.12E-09	2.98E-09	3.01E-09	3.03E-09	2.98E-09	2.96E-09
URI (ΔCDF)	-1.05E-08	-1.00E-08	-5.83E-09	-5.76E-09	-5.24E-09	-6.03E-09	-6.27E-09	-6.97E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.30E-09	-6.90E-09	-2.70E-09	-2.80E-09	-2.20E-09	-3.00E-09	-3.30E-09	-4.00E-09

Licensee Comments: none

Reactor Coolant System Activity



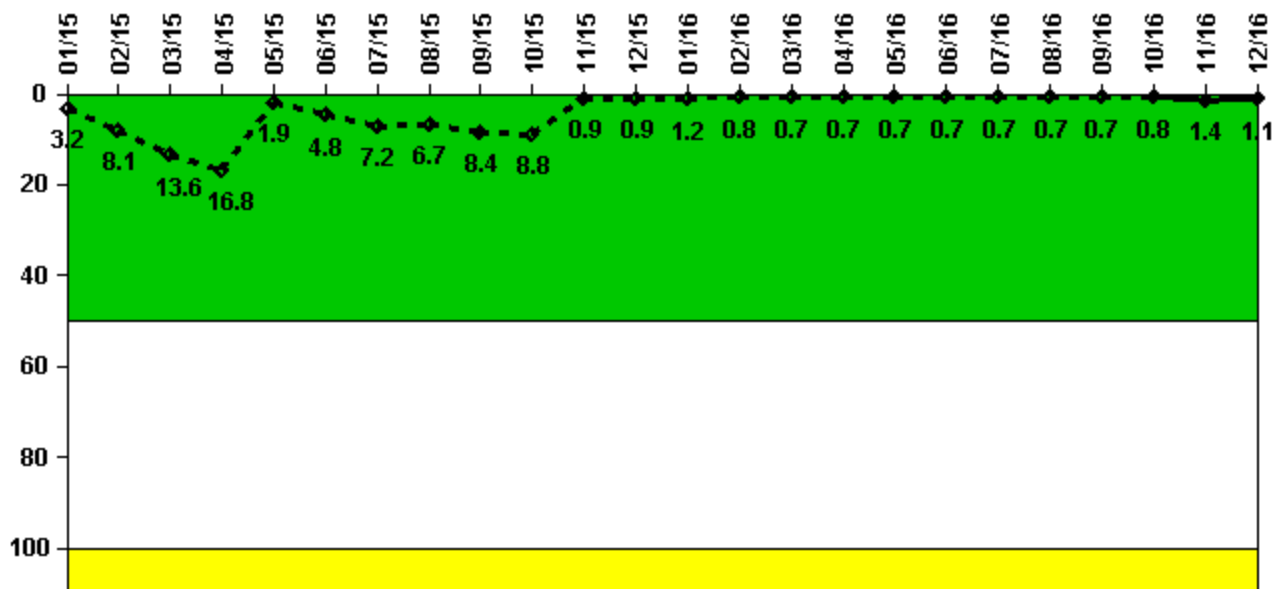
Thresholds: White > 50.0 Yellow > 100.0

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	0.001140	0.001110	0.001280	0.001190	0.000171	0.000544	0.000573	0.000576	0.000710	0.000620	0.000813	0.000903
Technical specification limit	1.0	1.0	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	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	0.000789	0.000840	0.000893	0.000943	0.000895	0.001120	0.001110	0.001090	0.001070	0.002690	0.000775	0.000652
Technical specification limit	1.0	1.0	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	0.3	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



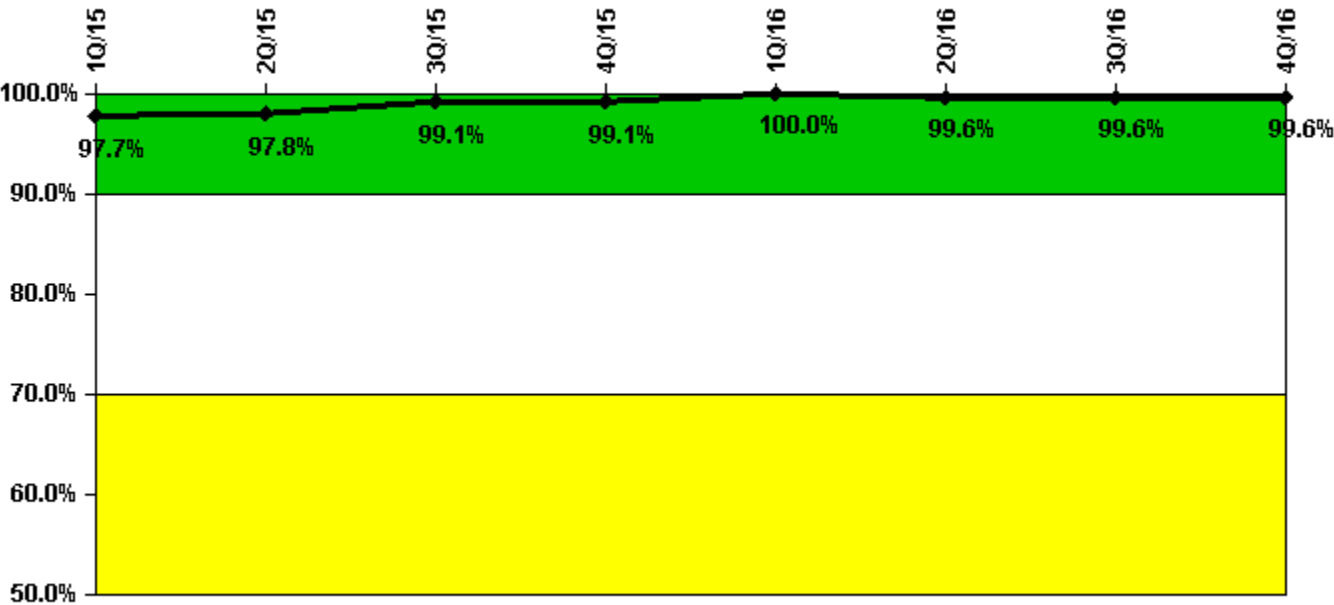
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum leakage	0.320	0.810	1.360	1.680	0.190	0.480	0.720	0.670	0.840	0.880	0.090	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.2	8.1	13.6	16.8	1.9	4.8	7.2	6.7	8.4	8.8	0.9	0.9
Reactor Coolant System Leakage	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum leakage	0.120	0.080	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.080	0.140	0.110
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.2	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	1.4	1.1

Licensee Comments: none

Drill/Exercise Performance



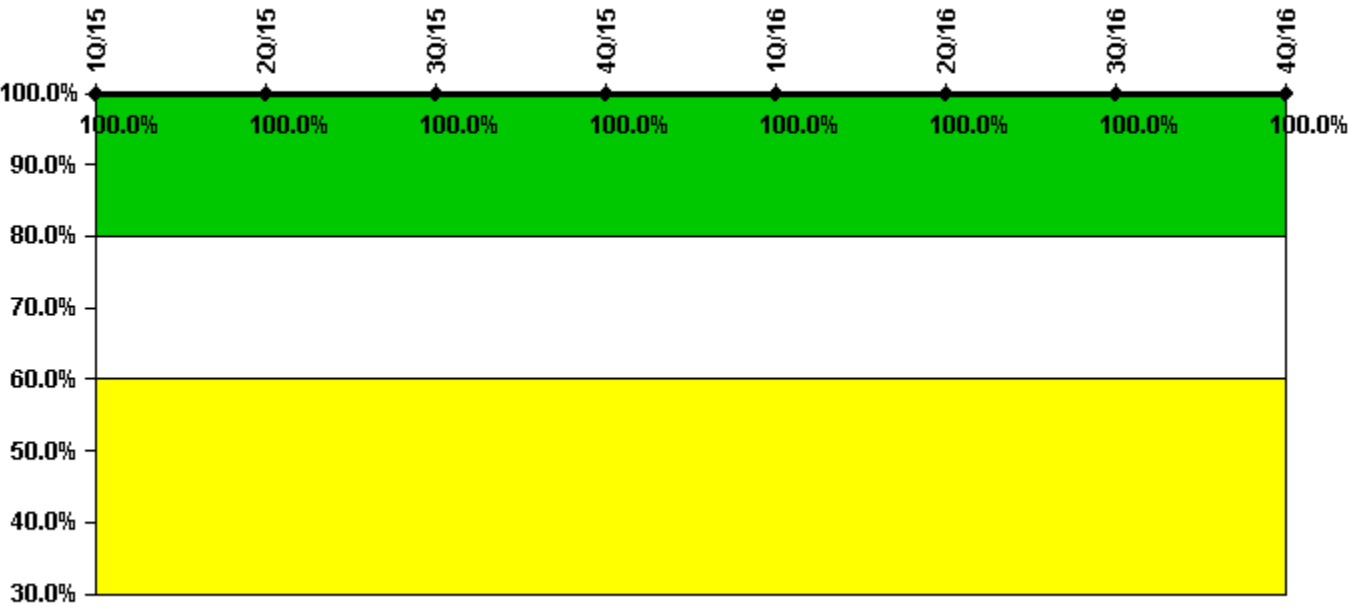
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful opportunities	31.0	31.0	35.0	20.0	39.0	45.0	21.0	24.0
Total opportunities	31.0	31.0	35.0	20.0	39.0	46.0	21.0	24.0
Indicator value	97.7%	97.8%	99.1%	99.1%	100.0%	99.6%	99.6%	99.6%

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

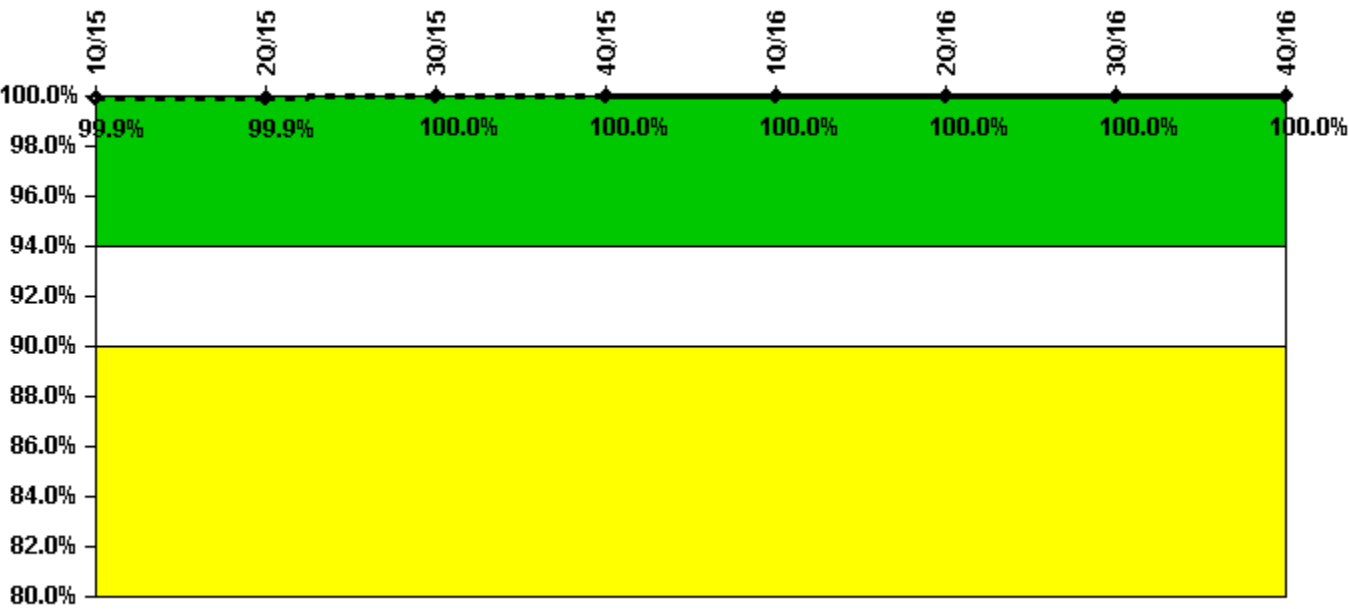
Notes

ERO Drill Participation	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Participating Key personnel	141.0	157.0	157.0	165.0	175.0	176.0	183.0	168.0
Total Key personnel	141.0	157.0	157.0	165.0	175.0	176.0	183.0	168.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments:

2Q/15: An assessment revealed additional key personnel for March 2015. Historical data was corrected with no change in color.

Alert & Notification System



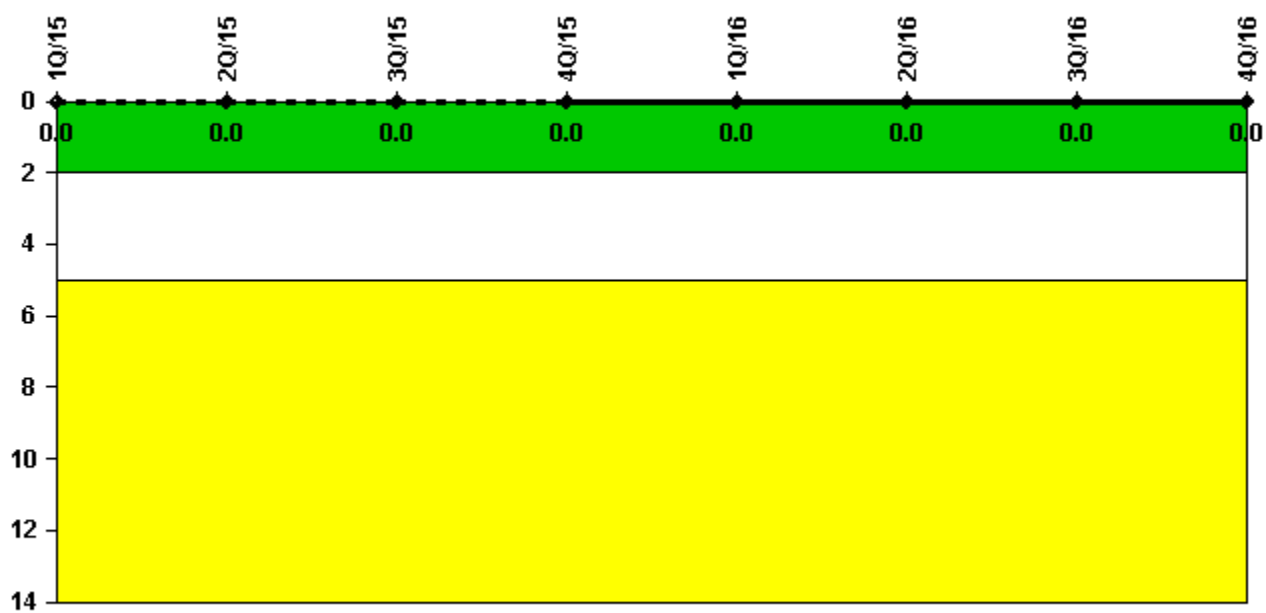
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful siren-tests	567	497	568	497	568	497	568	426
Total sirens-tests	568	497	568	497	568	497	568	426
Indicator value	99.9%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness

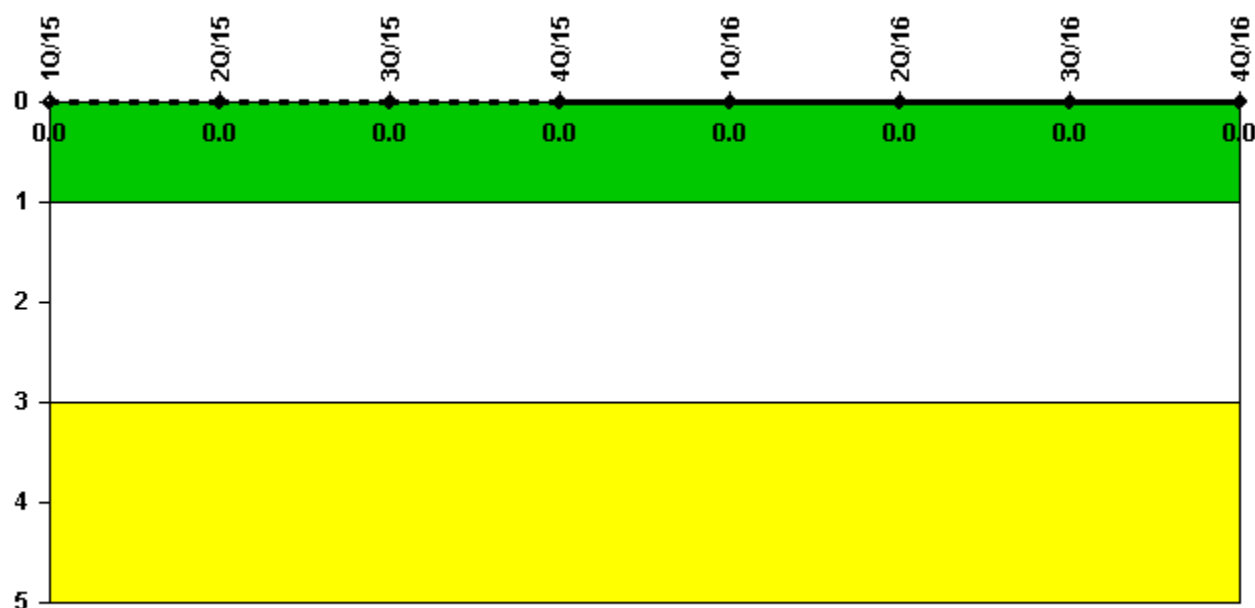


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	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



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries> Surry 1 > Quarterly Performance Indicators

Surry 1 – Quarterly Performance Indicators

1Q/2017 Performance Indicators

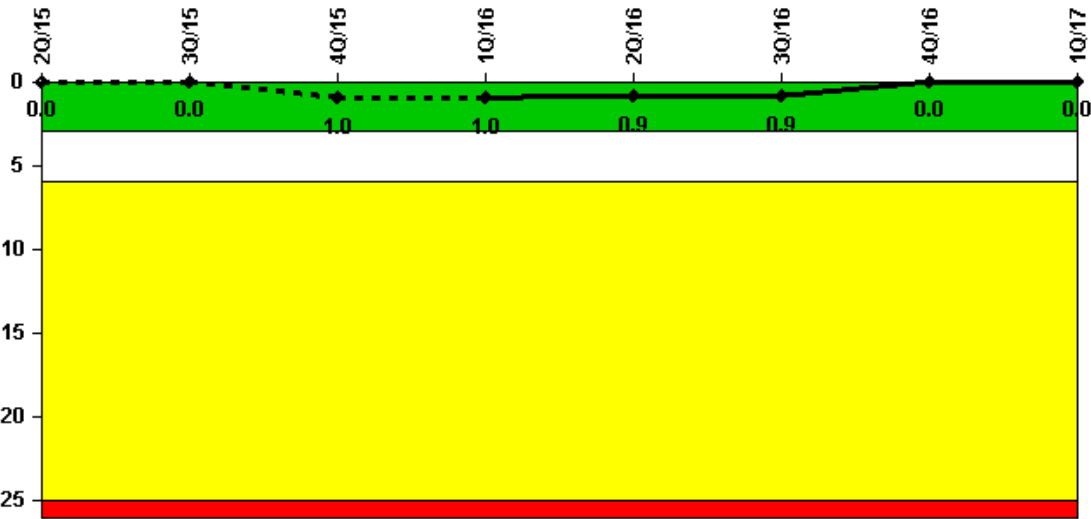
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
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- RETS/OCDE Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

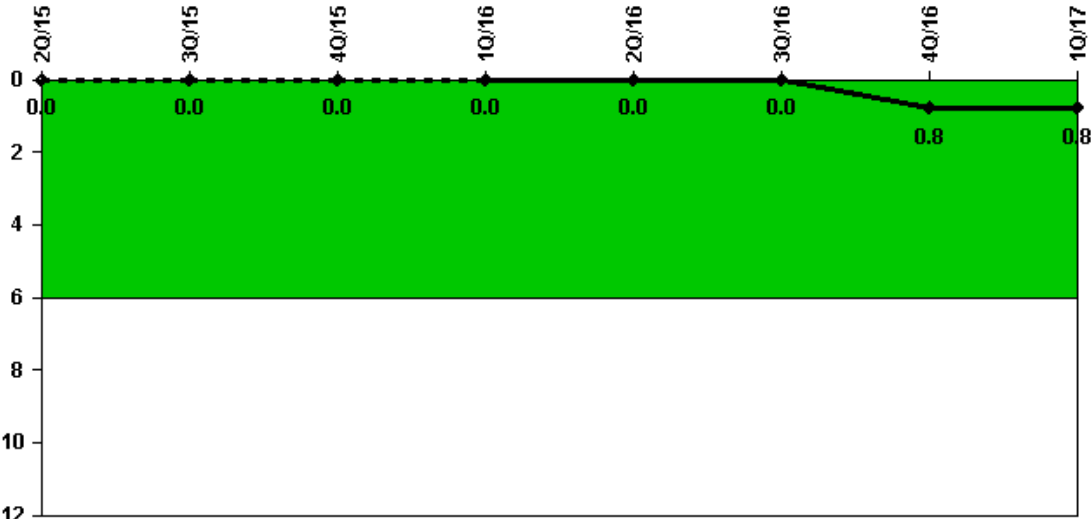
Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	1272.0	1952.3	1363.6	2183.0	2184.0	2208.0	1736.7	2159.0
Indicator value	0	0	1.0	1.0	0.9	0.9	0	0

TOP

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

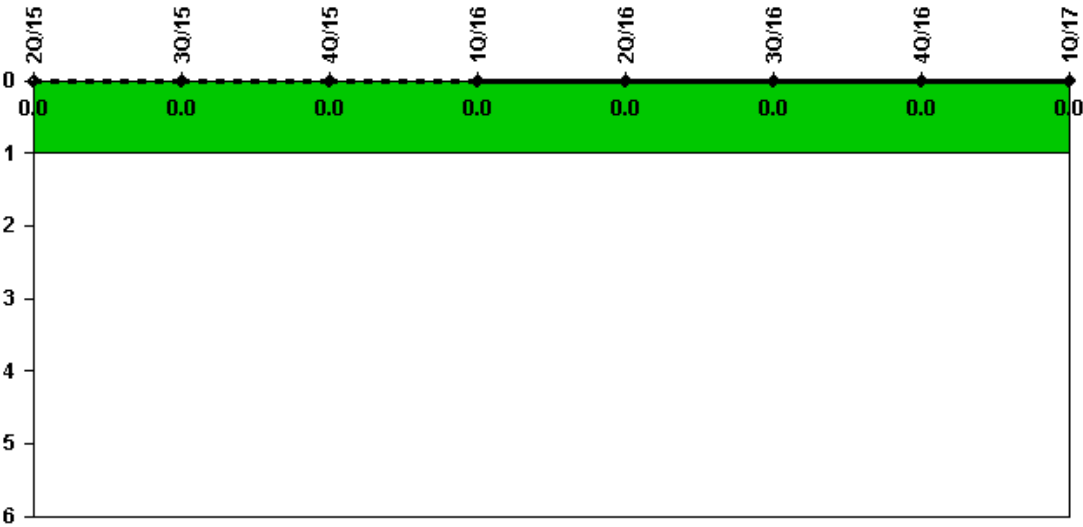
Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	1272.0	1952.3	1363.6	2183.0	2184.0	2208.0	1736.7	2159.0
Indicator value	0	0	0	0	0	0	0.8	0.8

TOP

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

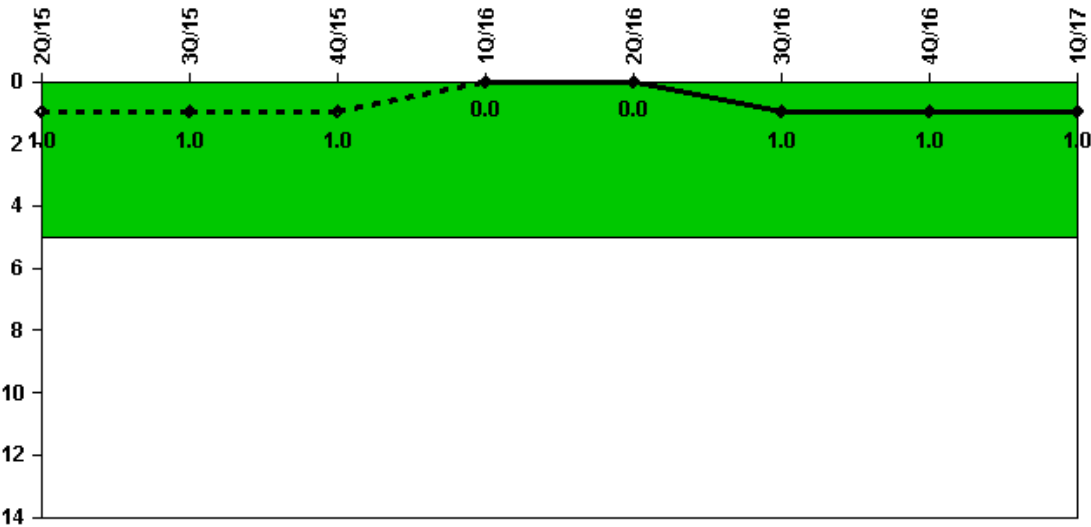
Notes

Unplanned Scrams with Complications	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOP

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

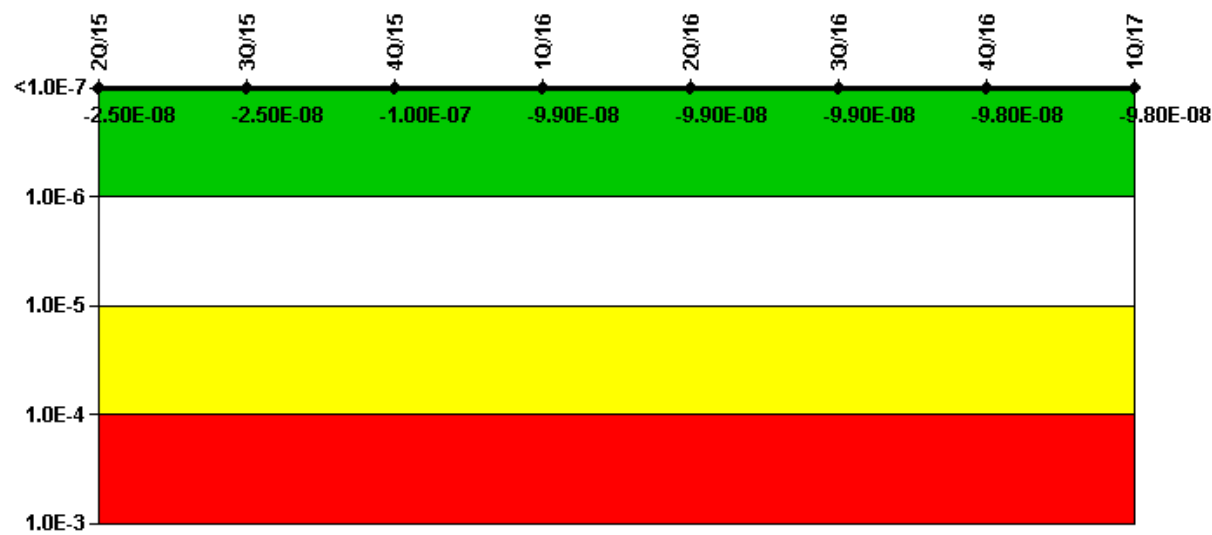
Safety System Functional Failures (PWR)	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Safety System Functional Failures	0	0	0	0	0	1	0	0

Indicator value	1	1	1	0	0	1	1	1
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TOP

Licensee Comments:
2Q/15: An assessment revealed a SSFF for March 2015 (see LER 50-280, 50-281/2015-001-00). Historical data was corrected with no change in color.

Mitigating Systems Performance Index, Emergency AC Power System



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

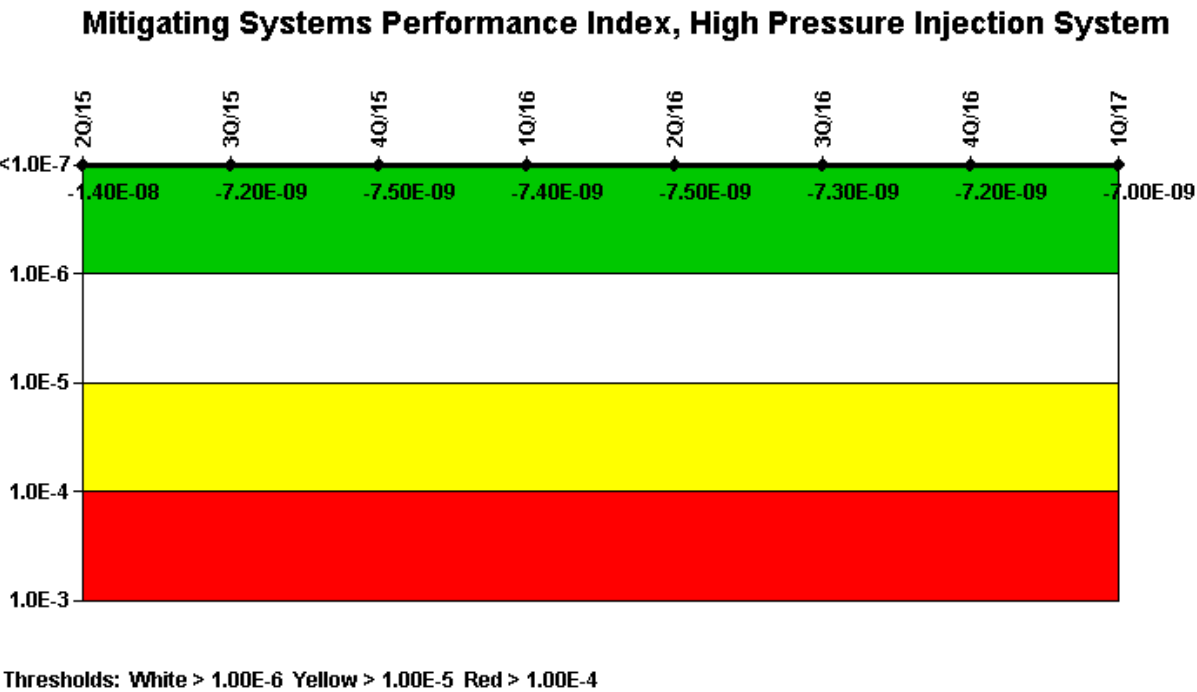
Notes

Mitigating Systems Performance Index, Emergency AC Power System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-2.64E-09	-2.49E-09	-4.87E-09	-4.88E-09	-4.55E-09	-4.55E-09	-4.70E-09	-4.70E-09
URI (ΔCDF)	-2.24E-08	-2.27E-08	-9.54E-08	-9.42E-08	-9.46E-08	-9.43E-08	-9.33E-08	-9.33E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-08	-2.50E-08	-1.00E-07	-9.90E-08	-9.90E-08	-9.90E-08	-9.80E-08	-9.80E-08

TOP

Licensee Comments: none



Notes

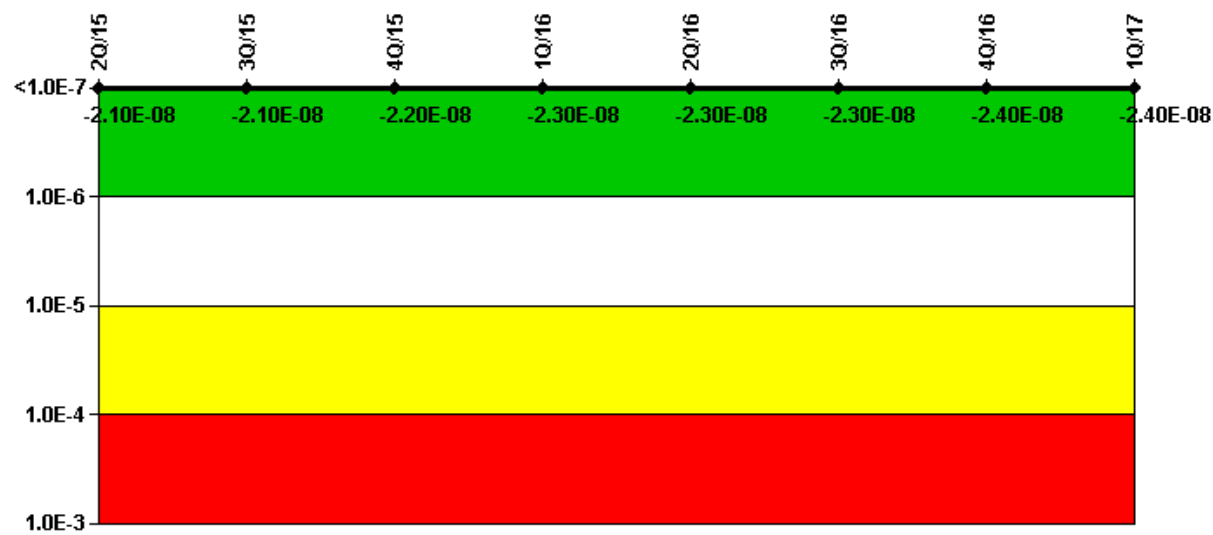
Mitigating Systems Performance Index, High Pressure Injection System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-9.95E-10	-9.71E-10	-9.82E-10	-1.06E-09	-1.06E-09	-1.06E-09	-1.06E-09	-1.06E-09
URI (ΔCDF)	-1.27E-08	-6.25E-09	-6.55E-09	-6.37E-09	-6.40E-09	-6.27E-09	-6.16E-09	-5.93E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	-7.20E-09	-7.50E-09	-7.40E-09	-7.50E-09	-7.30E-09	-7.20E-09	-7.00E-09

TOP

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



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

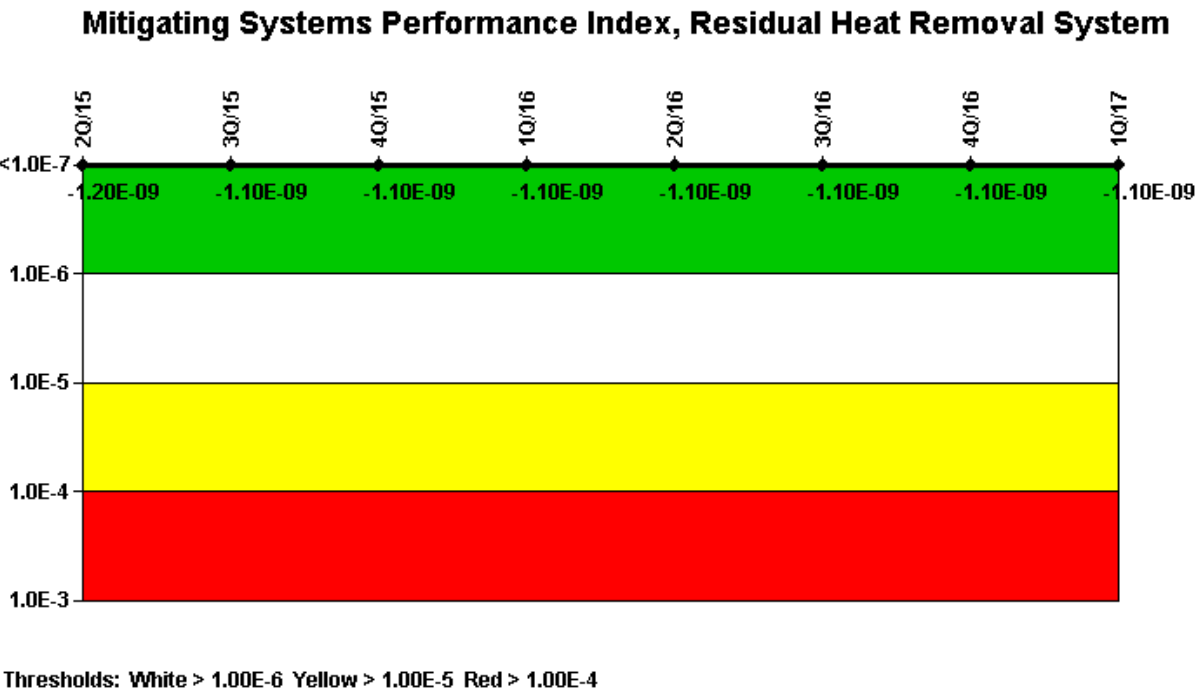
Notes

Mitigating Systems Performance Index, Heat Removal System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-2.62E-09	-2.31E-09	-2.61E-09	-2.60E-09	-2.80E-09	-3.01E-09	-3.83E-09	-4.62E-09
URI (ΔCDF)	-1.79E-08	-1.85E-08	-1.95E-08	-2.00E-08	-2.05E-08	-2.05E-08	-2.00E-08	-1.89E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.10E-08	-2.10E-08	-2.20E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.40E-08	-2.40E-08

TOP

Licensee Comments: none



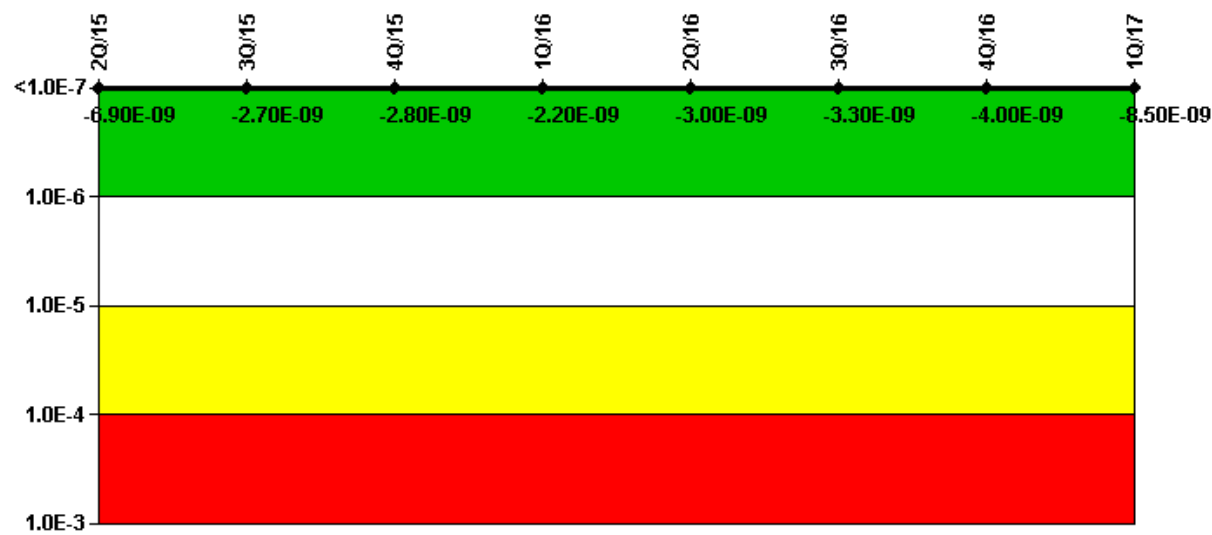
Notes

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)	-2.70E-10	-1.41E-10	-1.36E-10	-1.36E-10	-1.36E-10	-1.36E-10	-1.38E-10	-1.38E-10
URI (ΔCDF)	-9.27E-10	-9.46E-10	-9.46E-10	-9.55E-10	-9.36E-10	-9.46E-10	-9.67E-10	-9.76E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09

TOP

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

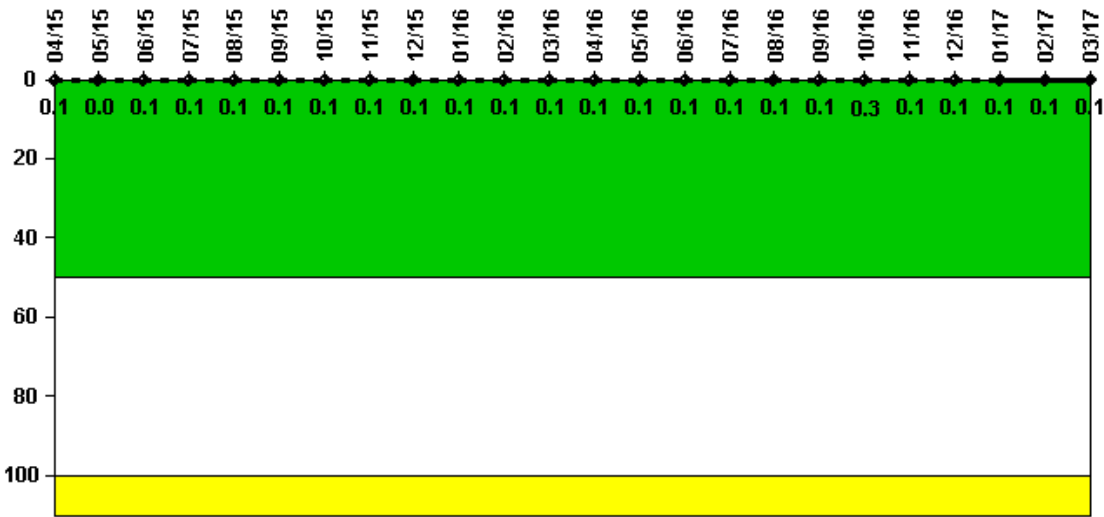
Mitigating Systems Performance Index, Cooling Water Systems

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	3.13E-09	3.12E-09	2.98E-09	3.01E-09	3.03E-09	2.98E-09	2.96E-09	2.96E-09
URI (ΔCDF)	-1.00E-08	-5.83E-09	-5.76E-09	-5.24E-09	-6.03E-09	-6.27E-09	-6.97E-09	-1.14E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.90E-09	-2.70E-09	-2.80E-09	-2.20E-09	-3.00E-09	-3.30E-09	-4.00E-09	-8.50E-09

TOP

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

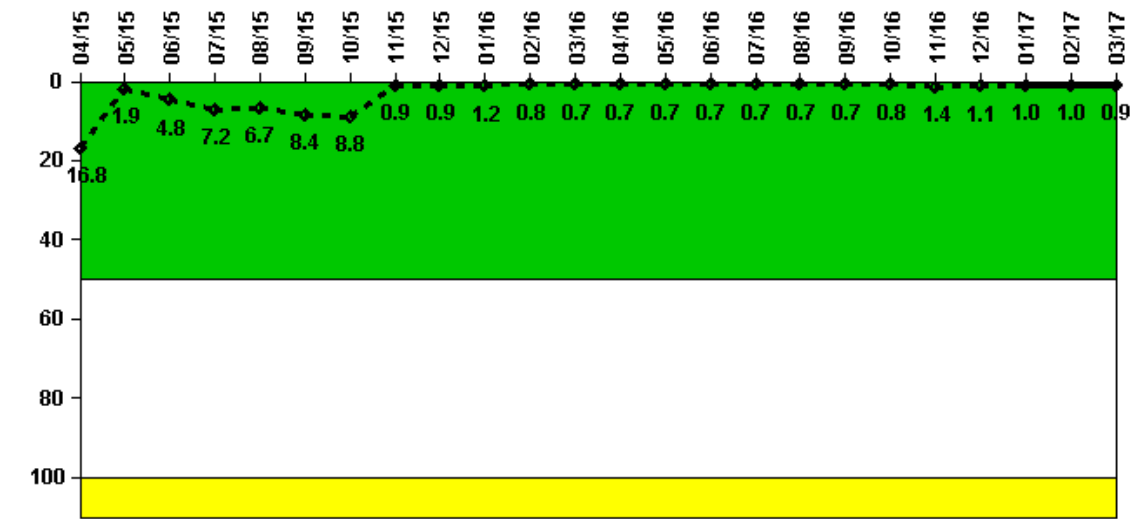
Reactor Coolant System Activity	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum activity	0.001190	0.000171	0.000544	0.000573	0.000576	0.000710	0.000620	0.000813	0.000903	0.000789	0.000840	0.000893
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0	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	0.000943	0.000895	0.001120	0.001110	0.001090	0.001070	0.002690	0.000775	0.000652	0.000568	0.000628	0.000633
Technical specification limit	1.0	1.0	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	0.3	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

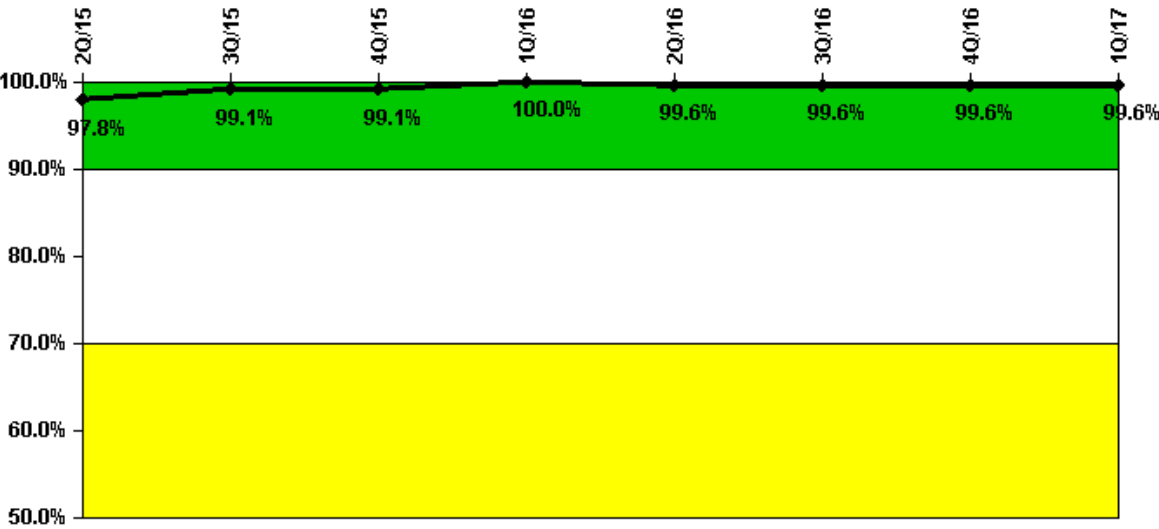
Reactor Coolant System Leakage	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum leakage	1.680	0.190	0.480	0.720	0.670	0.840	0.880	0.090	0.090	0.120	0.080	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	16.8	1.9	4.8	7.2	6.7	8.4	8.8	0.9	0.9	1.2	0.8	0.7

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	0.070	0.070	0.070	0.070	0.070	0.070	0.080	0.140	0.110	0.100	0.100	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.7	0.7	0.7	0.7	0.7	0.8	1.4	1.1	1.0	1.0	0.9

TOP

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

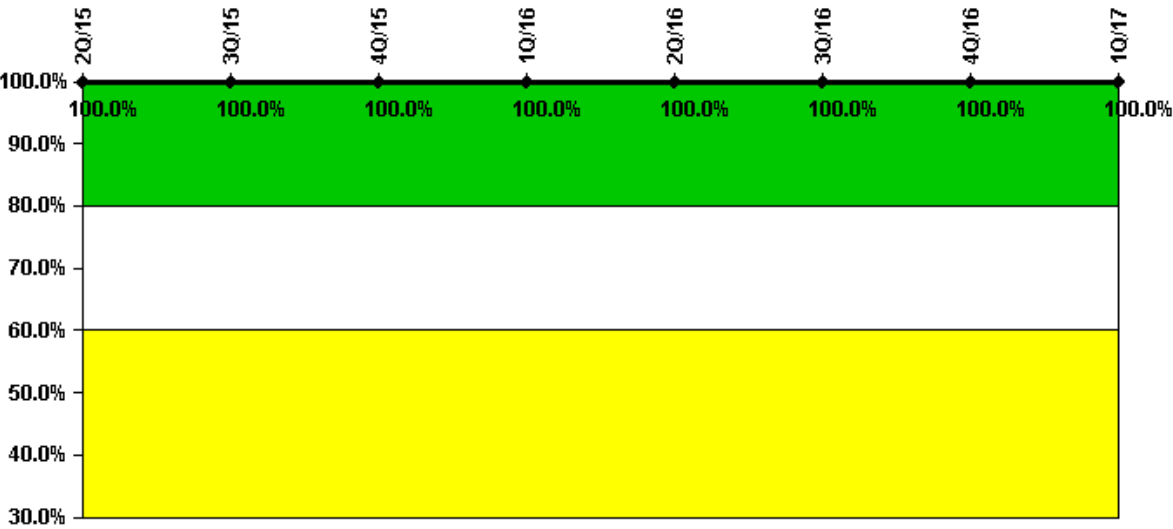
Drill/Exercise Performance	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful opportunities	31.0	35.0	20.0	39.0	45.0	21.0	24.0	37.0
Total opportunities	31.0	35.0	20.0	39.0	46.0	21.0	24.0	37.0

Indicator value 97.8% 99.1% 99.1% 100.0% 99.6% 99.6% 99.6% 99.6%

TOP

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

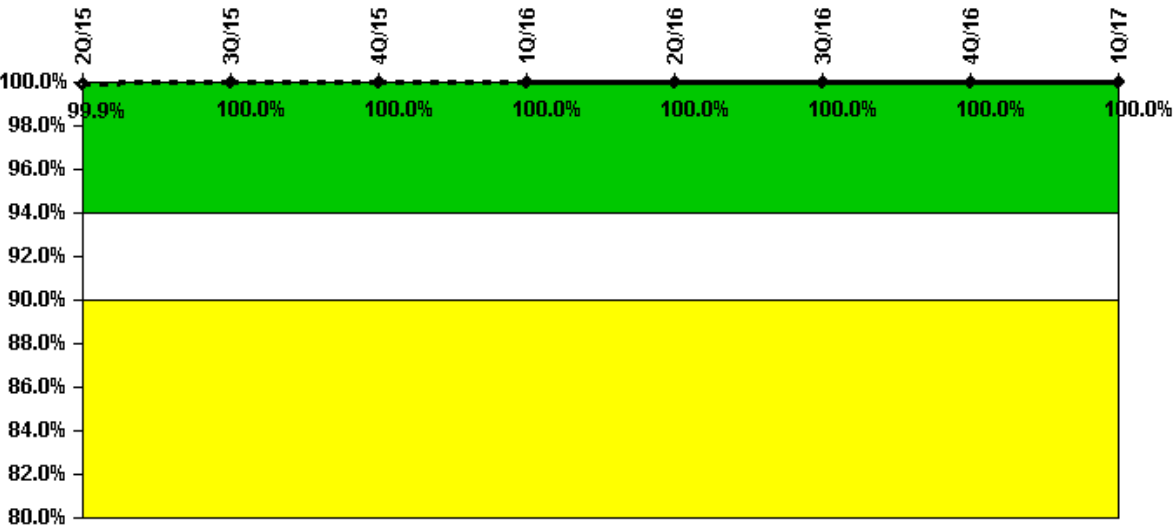
ERO Drill Participation	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Participating Key personnel	157.0	157.0	165.0	175.0	176.0	183.0	168.0	156.0
Total Key personnel	157.0	157.0	165.0	175.0	176.0	183.0	168.0	156.0

Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
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TOP

Licensee Comments:
2Q/15: An assessment revealed additional key personnel for March 2015. Historical data was corrected with no change in color.

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

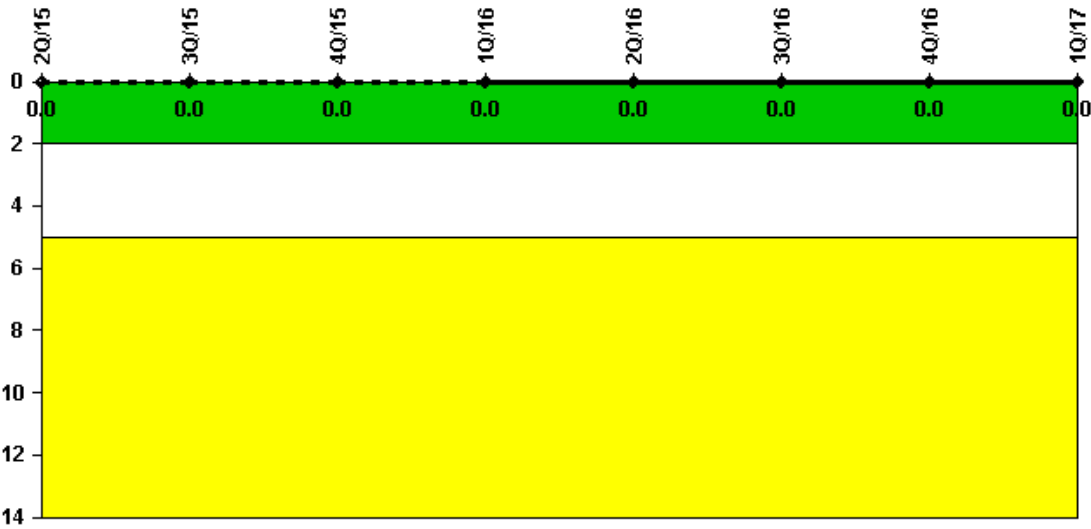
Alert & Notification System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful siren-tests	497	568	497	568	497	568	426	567
Total sirens-tests	497	568	497	568	497	568	426	568

Indicator value 99.9% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%

TOP

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

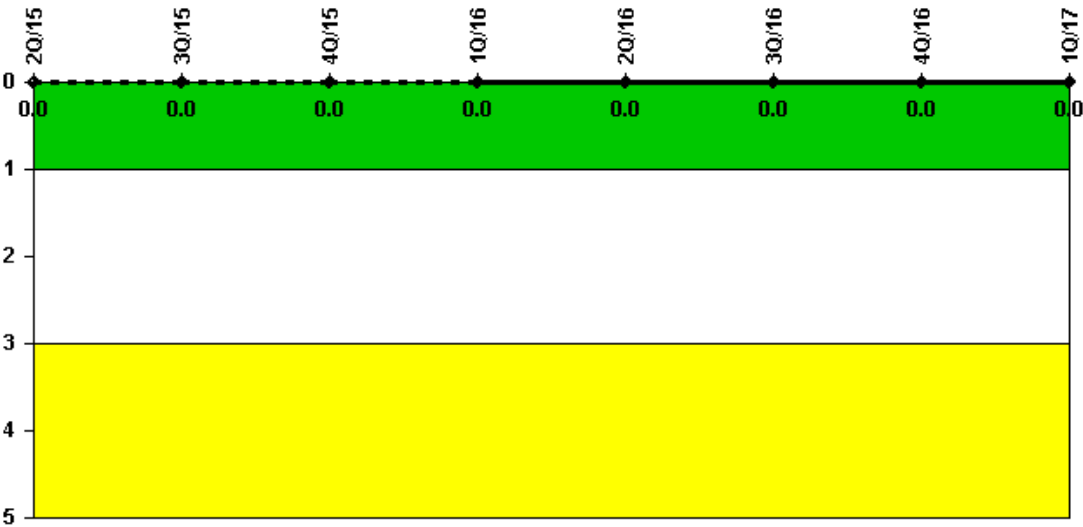
Notes

Occupational Exposure Control Effectiveness	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

TOP

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent2Q/153Q/154Q/151Q/162Q/163Q/164Q/161Q/17

RETS/ODCM occurrences000000000

Indicator value000000000

TOP

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: May 5, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries> Surry 1 > Quarterly Performance Indicators

Surry 1 – Quarterly Performance Indicators

2Q/2017 Performance Indicators

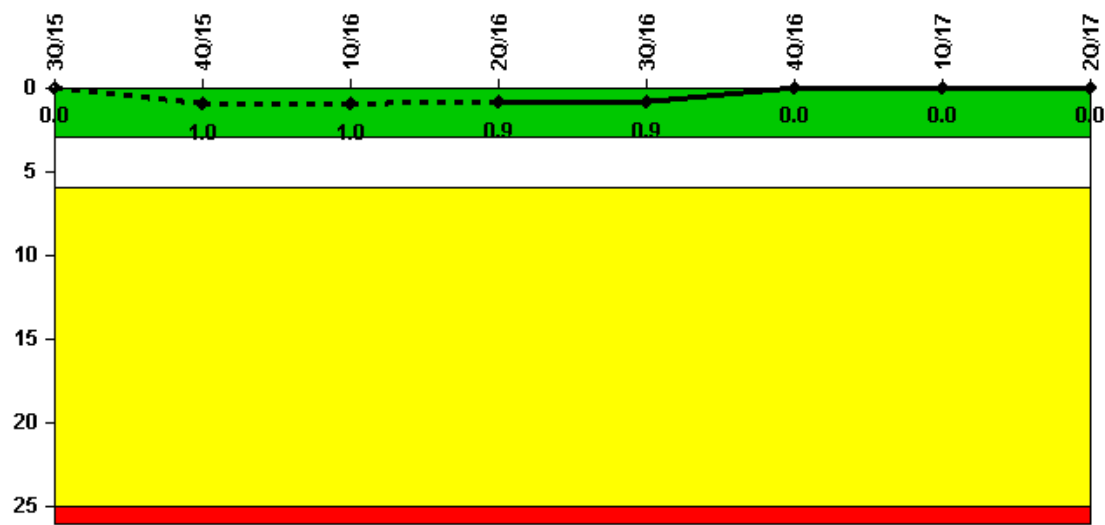
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

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- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

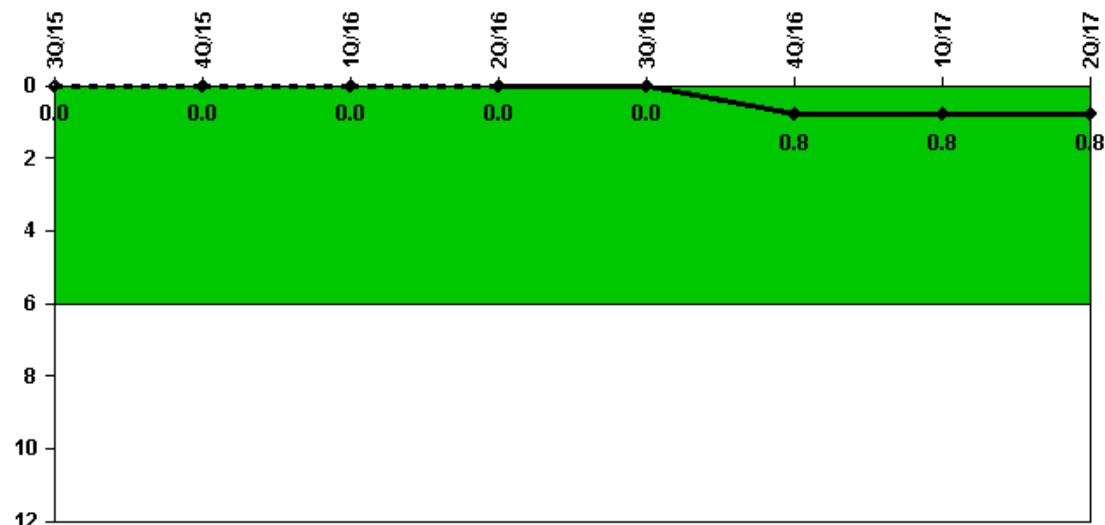
Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	1952.3	1363.6	2183.0	2184.0	2208.0	1736.7	2159.0	2184.0
Indicator value	0	1.0	1.0	0.9	0.9	0	0	0

TOP

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

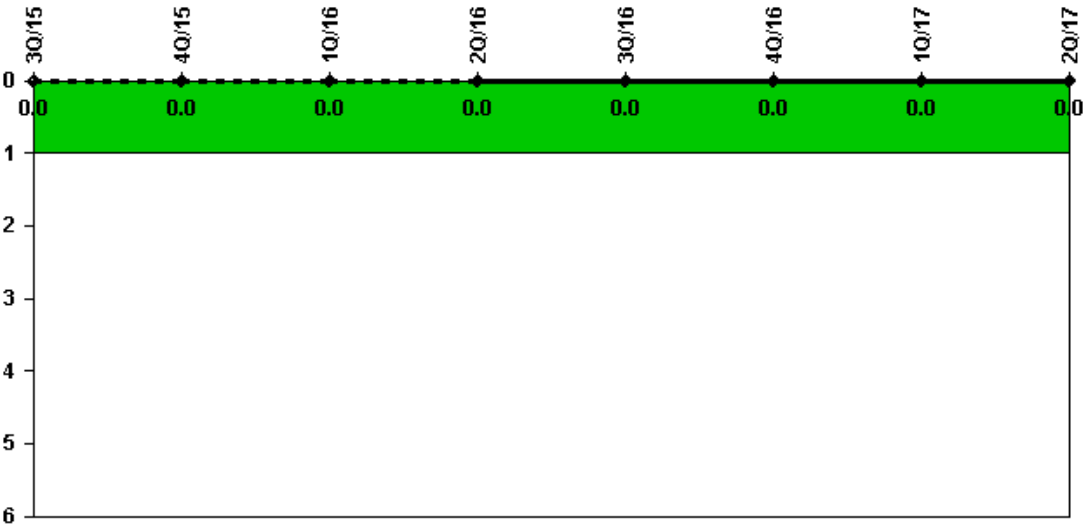
Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	1952.3	1363.6	2183.0	2184.0	2208.0	1736.7	2159.0	2184.0
Indicator value	0	0	0	0	0	0.8	0.8	0.8

TOP

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

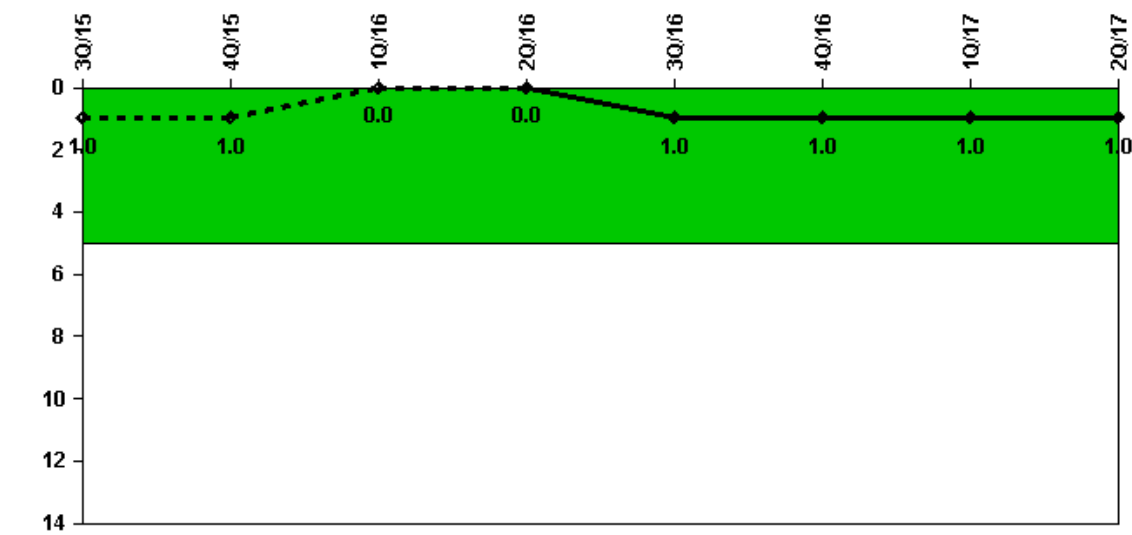
Notes

Unplanned Scrams with Complications	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOP

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

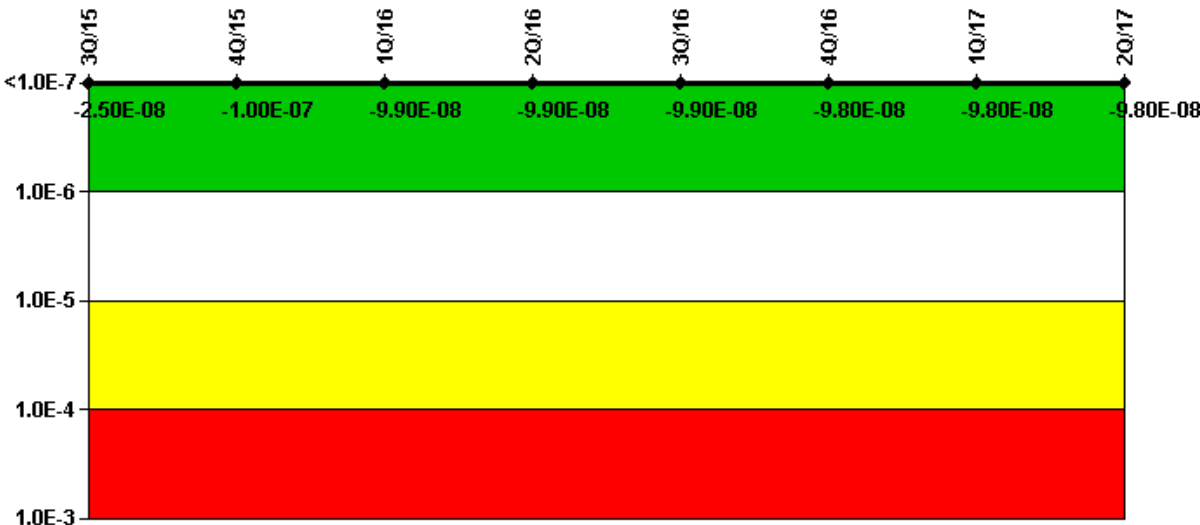
Safety System Functional Failures (PWR)	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Safety System Functional Failures	0	0	0	0	1	0	0	0

Indicator value	1	1	0	0	1	1	1	1
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TOP

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



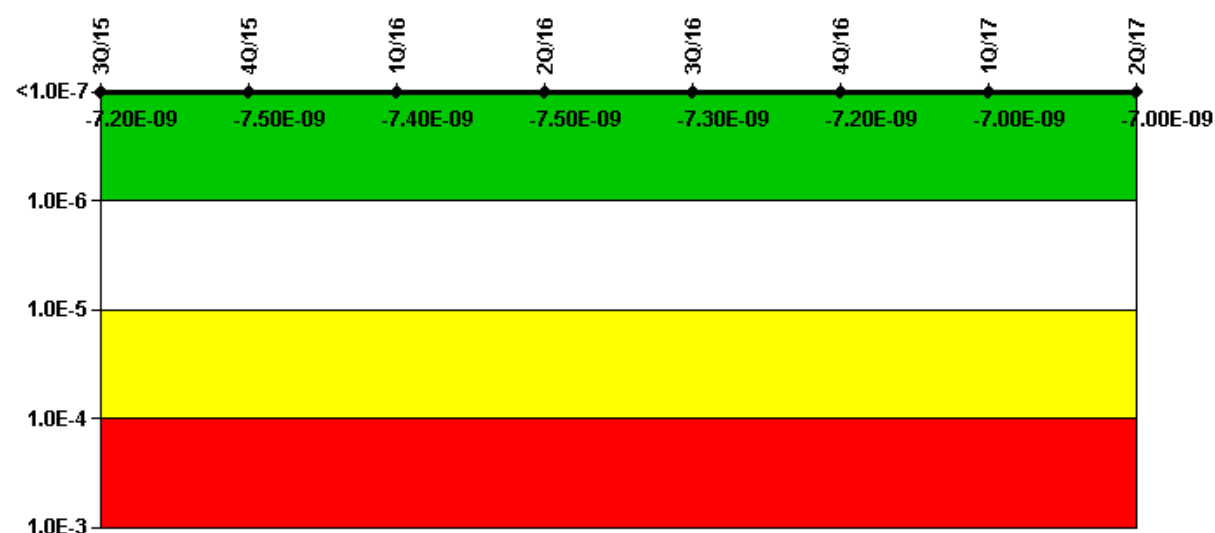
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes**Mitigating Systems Performance Index, Emergency
AC Power System**

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	-2.49E-09	-4.87E-09	-4.88E-09	-4.55E-09	-4.55E-09	-4.70E-09	-4.70E-09	-4.70E-09
URI (Δ CDF)	-2.27E-08	-9.54E-08	-9.42E-08	-9.46E-08	-9.43E-08	-9.33E-08	-9.33E-08	-9.29E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-08	-1.00E-07	-9.90E-08	-9.90E-08	-9.90E-08	-9.80E-08	-9.80E-08	-9.80E-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

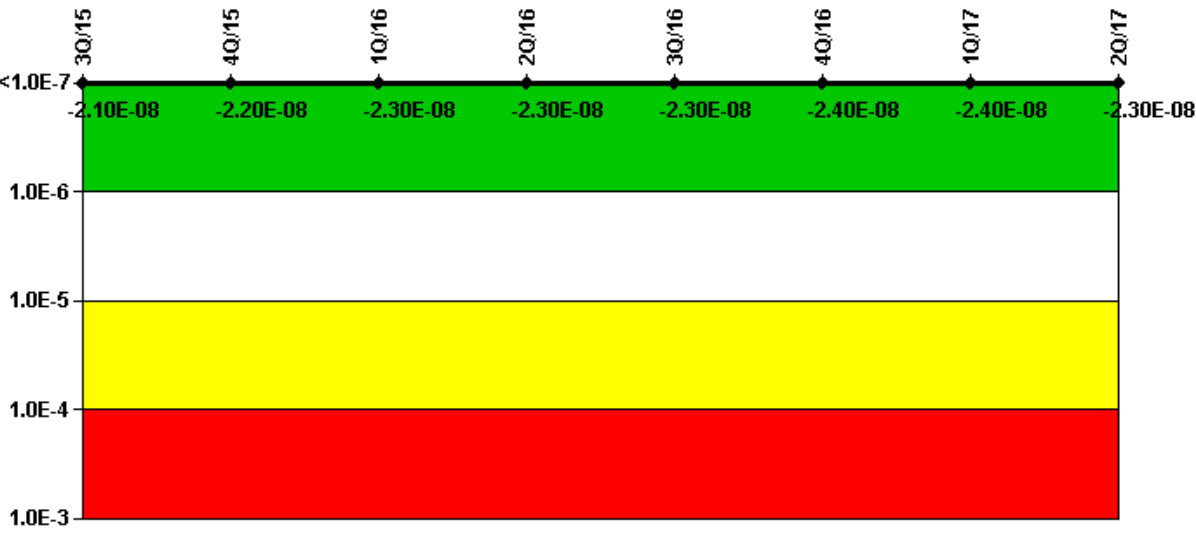
Notes**Mitigating Systems Performance Index, High
Pressure Injection System**

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	-9.71E-10	-9.82E-10	-1.06E-09	-1.06E-09	-1.06E-09	-1.06E-09	-1.06E-09	-1.06E-09
URI (Δ CDF)	-6.25E-09	-6.55E-09	-6.37E-09	-6.40E-09	-6.27E-09	-6.16E-09	-5.93E-09	-5.96E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.20E-09	-7.50E-09	-7.40E-09	-7.50E-09	-7.30E-09	-7.20E-09	-7.00E-09	-7.00E-09

 TOP

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



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

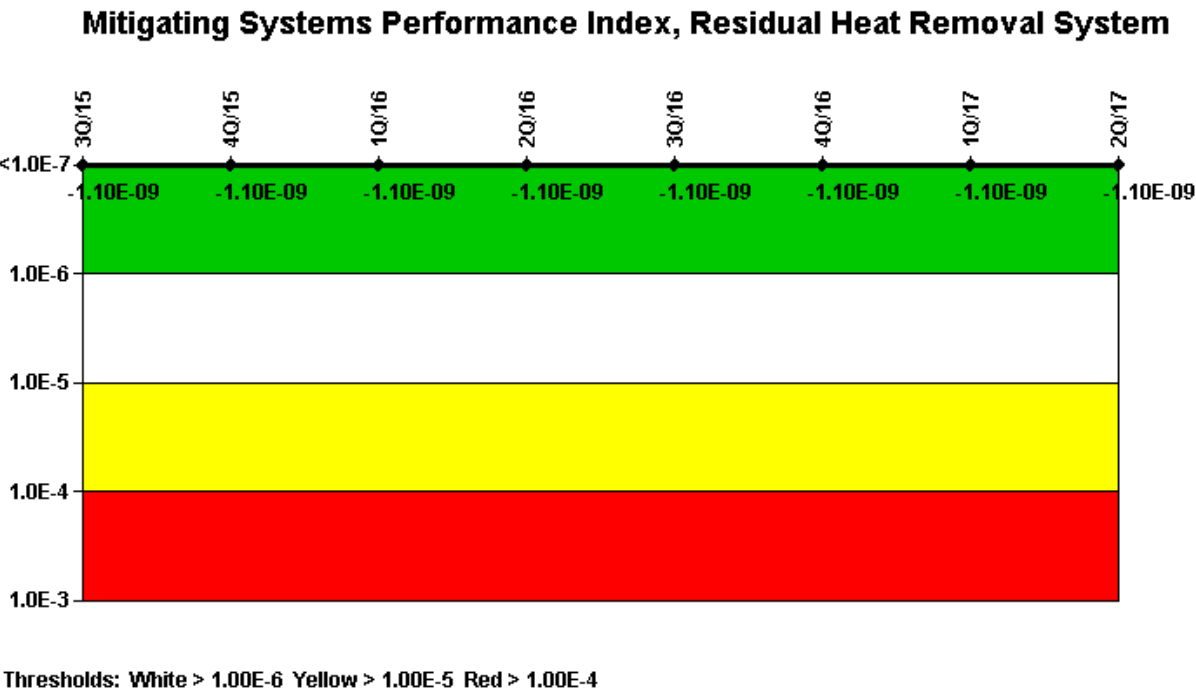
Notes

Mitigating Systems Performance Index, Heat Removal System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-2.31E-09	-2.61E-09	-2.60E-09	-2.80E-09	-3.01E-09	-3.83E-09	-4.62E-09	-3.37E-09
URI (ΔCDF)	-1.85E-08	-1.95E-08	-2.00E-08	-2.05E-08	-2.05E-08	-2.00E-08	-1.89E-08	-2.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.10E-08	-2.20E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.40E-08	-2.40E-08	-2.30E-08

TOP

Licensee Comments: none



Notes

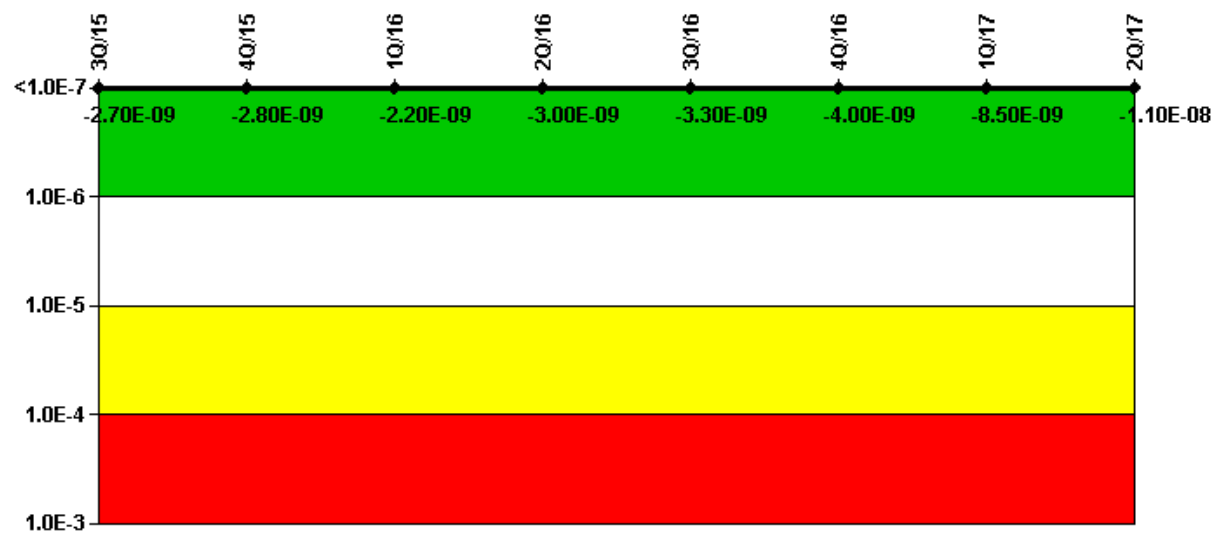
Mitigating Systems Performance Index, Residual Heat Removal System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-1.41E-10	-1.36E-10	-1.36E-10	-1.36E-10	-1.36E-10	-1.38E-10	-1.38E-10	-1.38E-10
URI (ΔCDF)	-9.46E-10	-9.46E-10	-9.55E-10	-9.36E-10	-9.46E-10	-9.67E-10	-9.76E-10	-9.76E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09

TOP

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

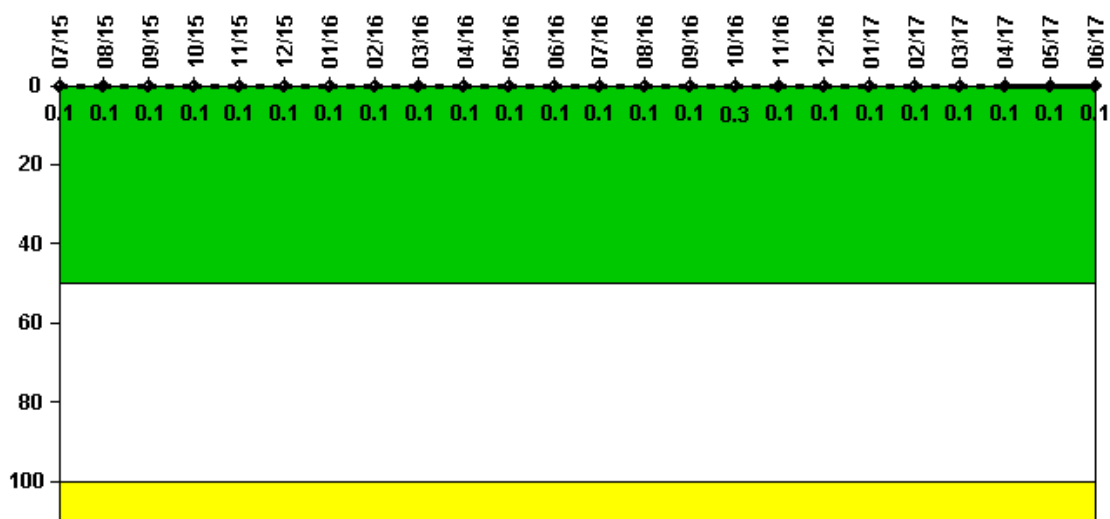
Mitigating Systems Performance Index, Cooling Water Systems

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	3.12E-09	2.98E-09	3.01E-09	3.03E-09	2.98E-09	2.96E-09	2.96E-09	7.92E-10
URI (ΔCDF)	-5.83E-09	-5.76E-09	-5.24E-09	-6.03E-09	-6.27E-09	-6.97E-09	-1.14E-08	-1.18E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.70E-09	-2.80E-09	-2.20E-09	-3.00E-09	-3.30E-09	-4.00E-09	-8.50E-09	-1.10E-08

TOP

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

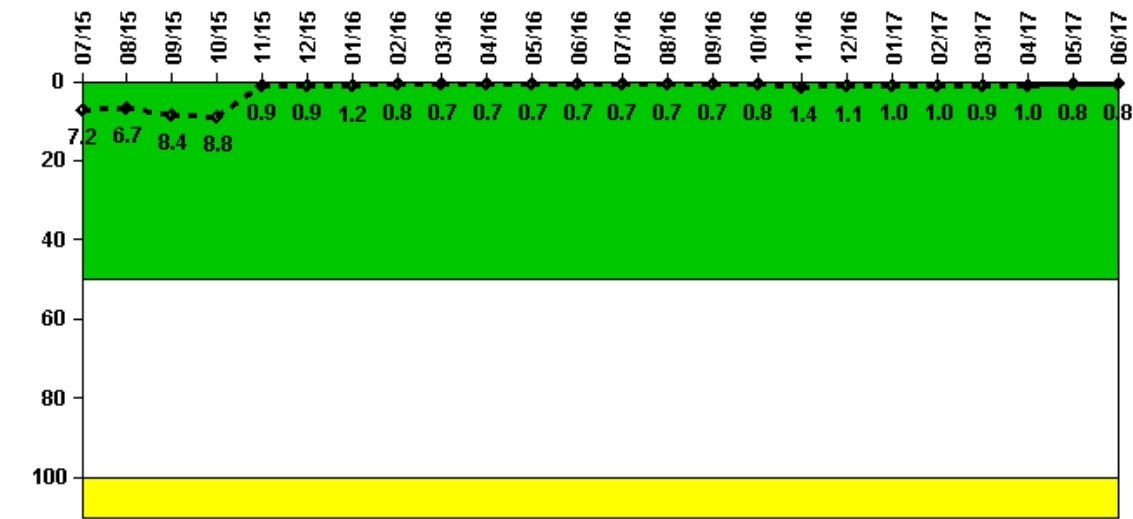
Notes

Reactor Coolant System Activity	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum activity	0.000573	0.000576	0.000710	0.000620	0.000813	0.000903	0.000789	0.000840	0.000893	0.000943	0.000895	0.001120
Technical specification limit	1.0	1.0	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	0.001110	0.001090	0.001070	0.002690	0.000775	0.000652	0.000568	0.000628	0.000633	0.000650	0.001070	0.000722
Technical specification limit	1.0	1.0	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	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

TOP

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

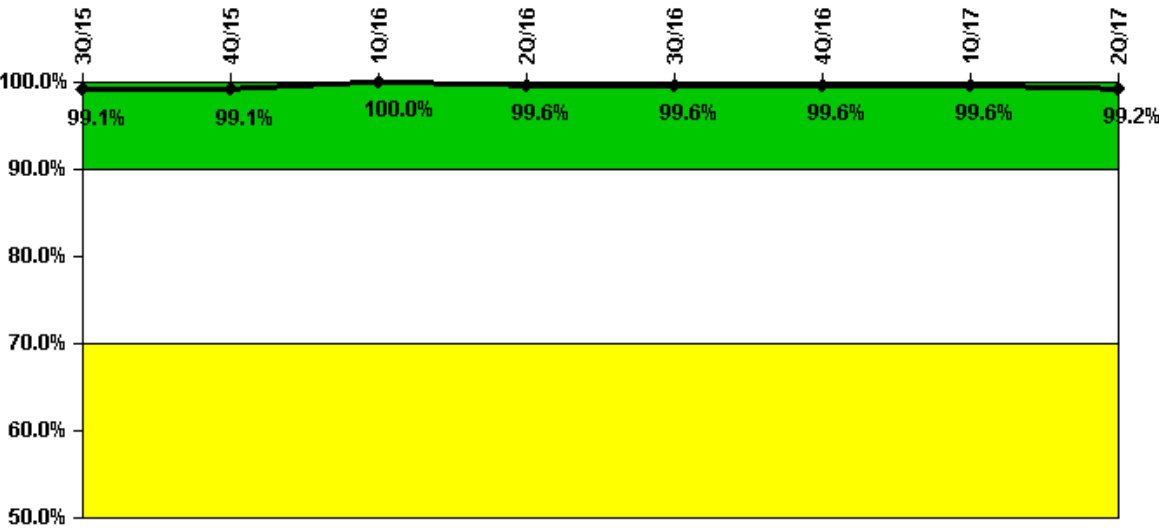
Reactor Coolant System Leakage	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum leakage	0.720	0.670	0.840	0.880	0.090	0.090	0.120	0.080	0.070	0.070	0.070	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	7.2	6.7	8.4	8.8	0.9	0.9	1.2	0.8	0.7	0.7	0.7	0.7

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	0.070	0.070	0.070	0.080	0.140	0.110	0.100	0.100	0.090	0.100	0.080	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	0.7	0.7	0.7	0.8	1.4	1.1	1.0	1.0	0.9	1.0	0.8	0.8

TOP

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

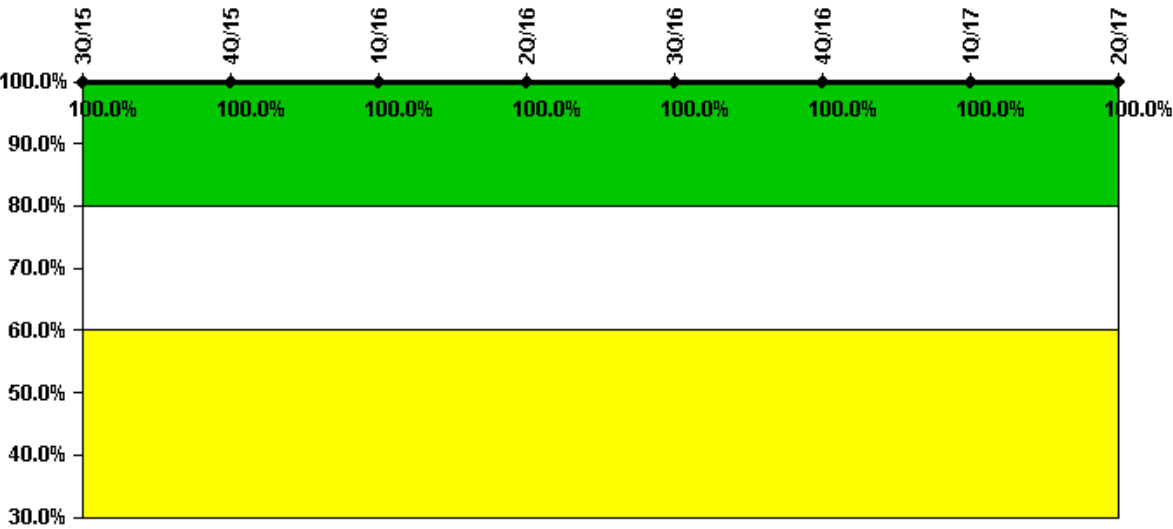
Drill/Exercise Performance	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful opportunities	35.0	20.0	39.0	45.0	21.0	24.0	37.0	33.0
Total opportunities	35.0	20.0	39.0	46.0	21.0	24.0	37.0	34.0

Indicator value 99.1% 99.1% 100.0% 99.6% 99.6% 99.6% 99.6% 99.2%

TOP

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

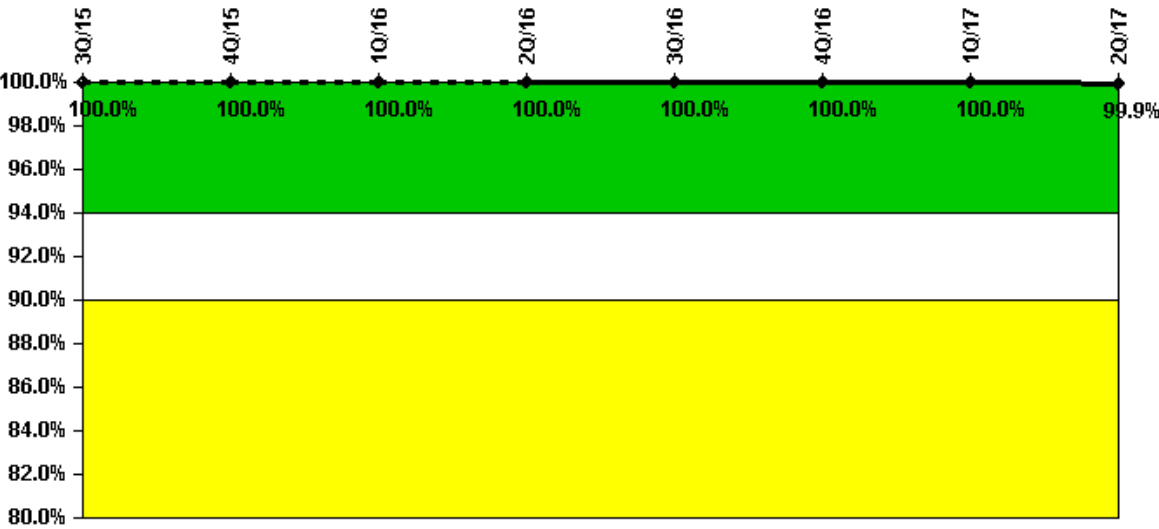
ERO Drill Participation	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Participating Key personnel	157.0	165.0	175.0	176.0	183.0	168.0	156.0	147.0
Total Key personnel	157.0	165.0	175.0	176.0	183.0	168.0	156.0	147.0

Indicator value 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%

TOP

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

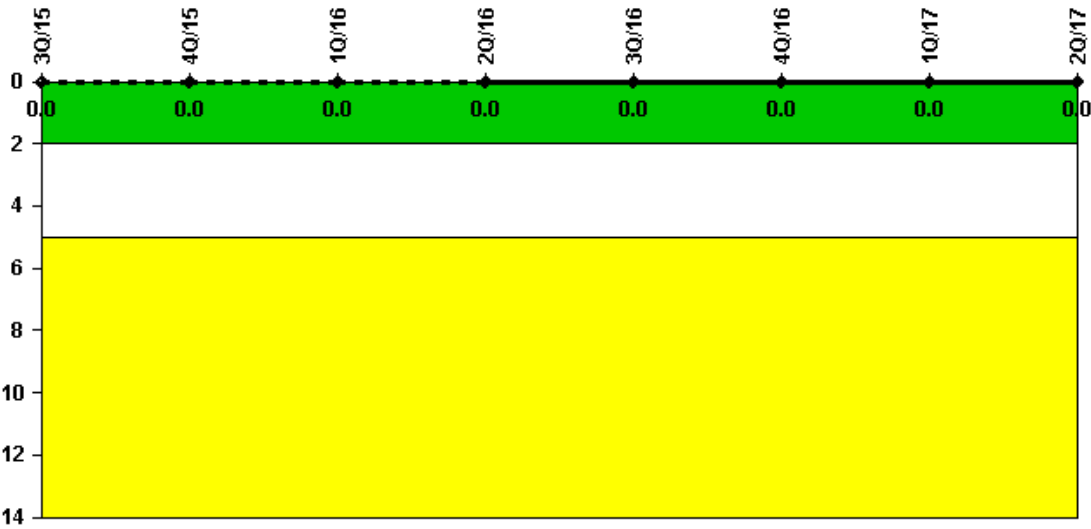
Alert & Notification System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful siren-tests	568	497	568	497	568	426	567	496
Total sirens-tests	568	497	568	497	568	426	568	497

Indicator value 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 99.9%

TOP

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

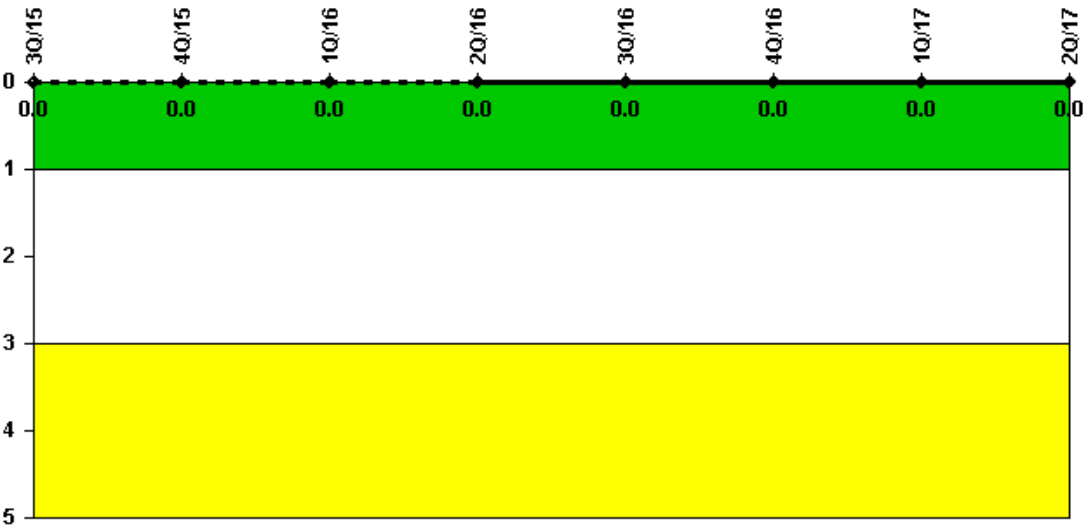
Notes

Occupational Exposure Control Effectiveness	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

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent3Q/154Q/151Q/162Q/163Q/164Q/161Q/172Q/17

RETS/ODCM occurrences000000000

Indicator value000000000

TOP

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: July 26, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries> Surry 1 > Quarterly Performance Indicators

Surry 1 – Quarterly Performance Indicators

3Q/2017 Performance Indicators

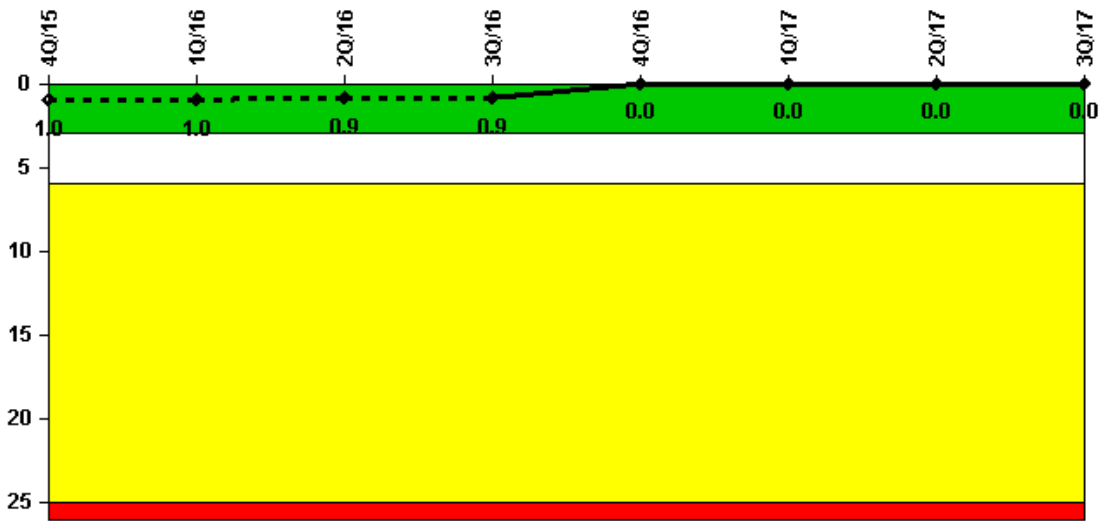
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDE Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

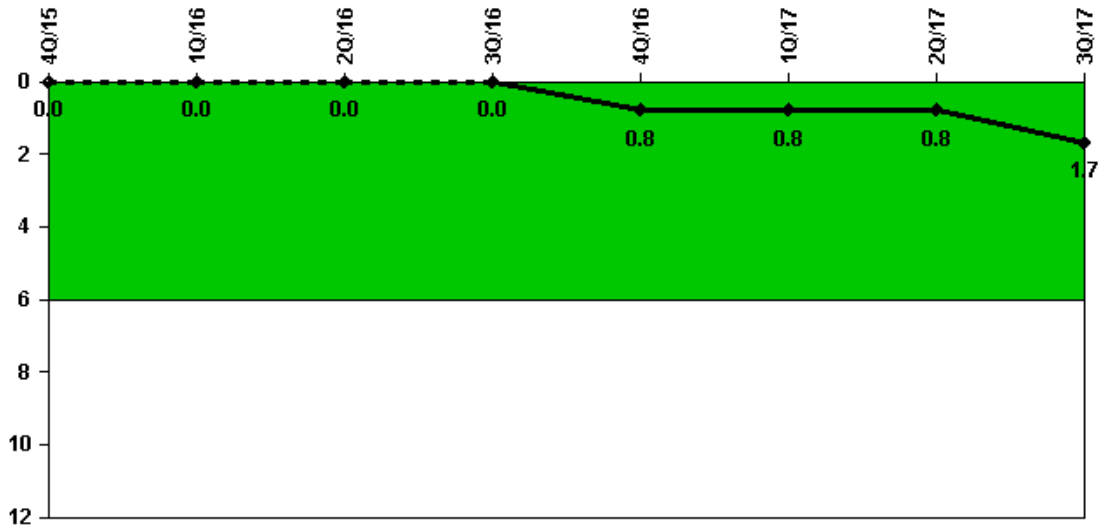
Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	1363.6	2183.0	2184.0	2208.0	1736.7	2159.0	2184.0	2174.4
Indicator value	1.0	1.0	0.9	0.9	0	0	0	0

TOP

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

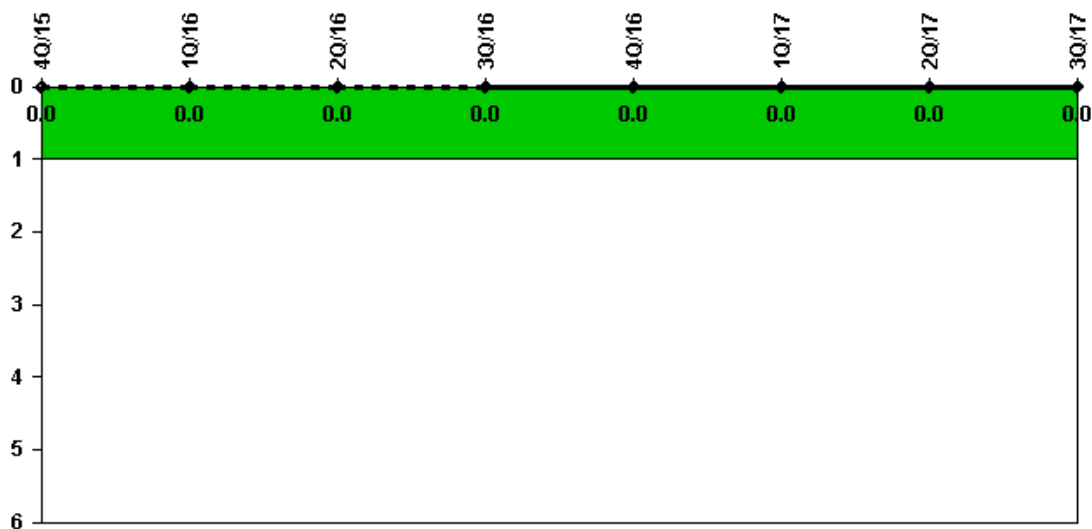
Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned power changes	0	0	0	0	1.0	0	0	1.0
Critical hours	1363.6	2183.0	2184.0	2208.0	1736.7	2159.0	2184.0	2174.4
Indicator value	0	0	0	0	0.8	0.8	0.8	1.7

TOP

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

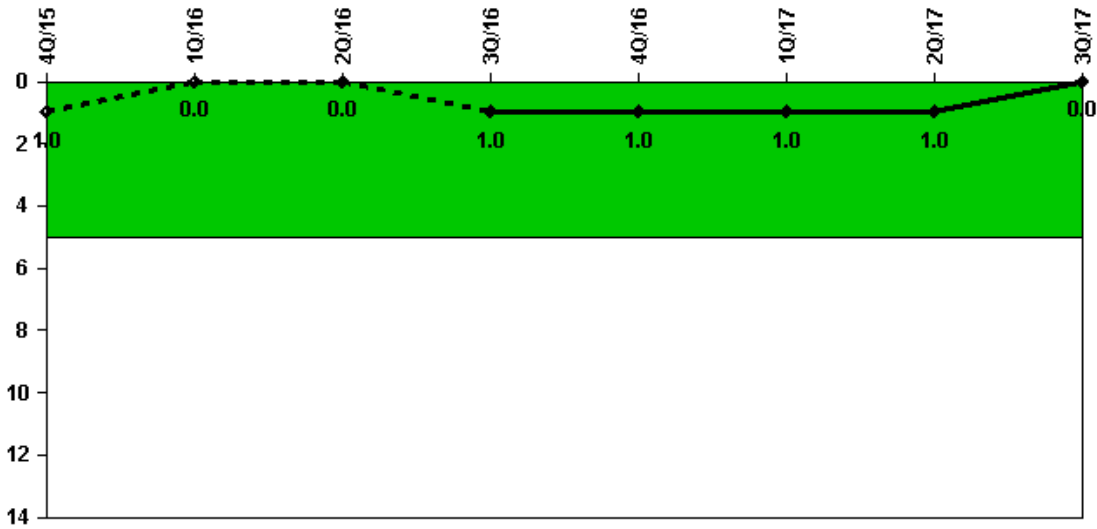
Notes

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

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

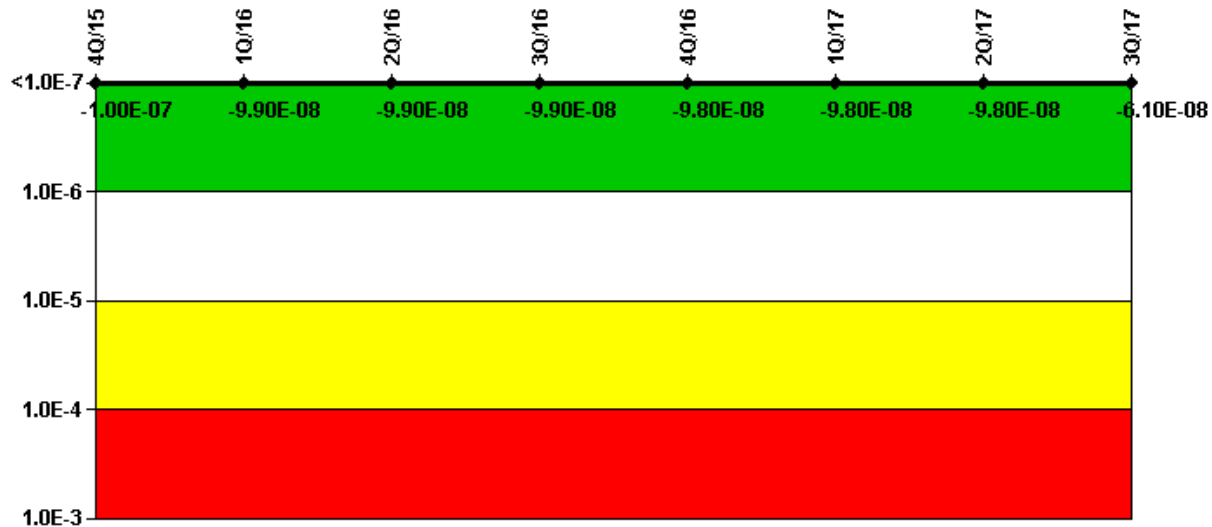
Safety System Functional Failures (PWR) 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17
 Safety System Functional Failures 0 0 0 1 0 0 0 0

Indicator value 1 0 0 1 1 1 1 0

TOP

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

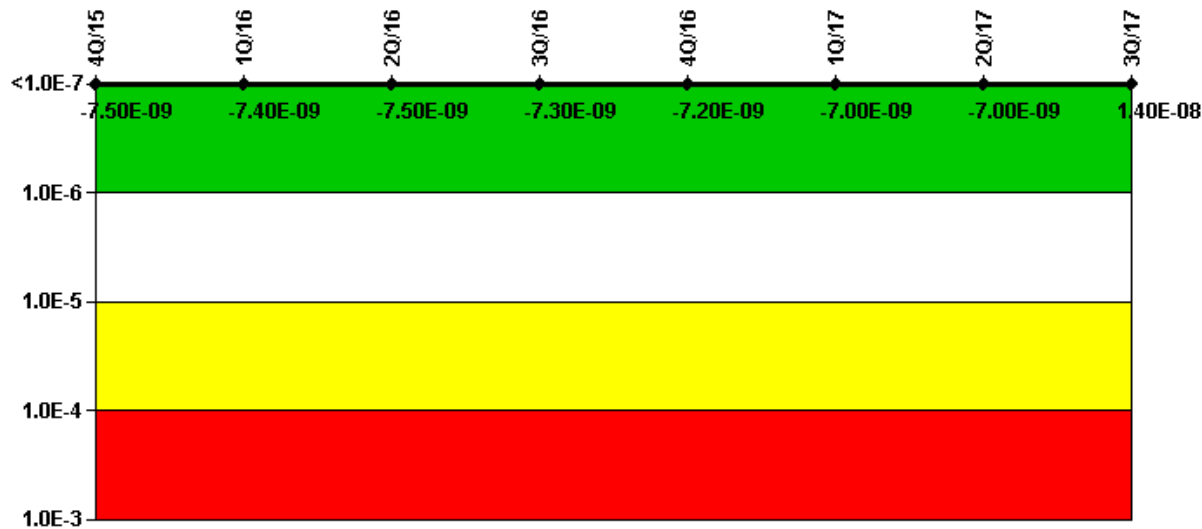
Notes**Mitigating Systems Performance Index, Emergency
AC Power System**

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-4.87E-09	-4.88E-09	-4.55E-09	-4.55E-09	-4.70E-09	-4.70E-09	-4.70E-09	-1.66E-09
URI (Δ CDF)	-9.54E-08	-9.42E-08	-9.46E-08	-9.43E-08	-9.33E-08	-9.33E-08	-9.29E-08	-5.89E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.00E-07	-9.90E-08	-9.90E-08	-9.90E-08	-9.80E-08	-9.80E-08	-9.80E-08	-6.10E-08

TOP

Licensee Comments:

3Q/17: 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**

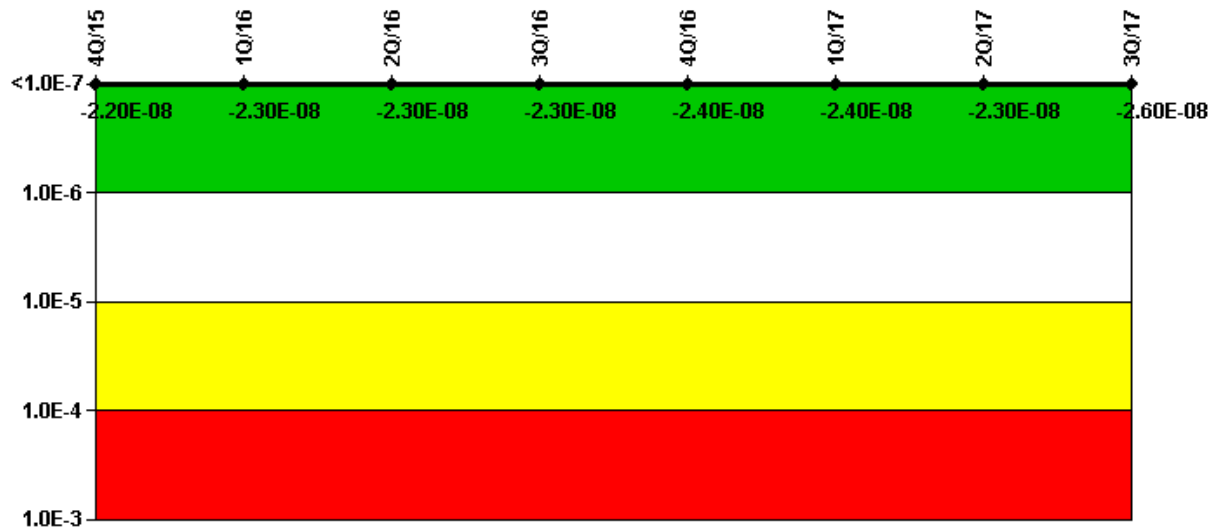
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-9.82E-10	-1.06E-09	-1.06E-09	-1.06E-09	-1.06E-09	-1.06E-09	-1.06E-09	-1.03E-09
URI (Δ CDF)	-6.55E-09	-6.37E-09	-6.40E-09	-6.27E-09	-6.16E-09	-5.93E-09	-5.96E-09	1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.50E-09	-7.40E-09	-7.50E-09	-7.30E-09	-7.20E-09	-7.00E-09	-7.00E-09	1.40E-08

▲ TOP

Licensee Comments:

3Q/17: 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

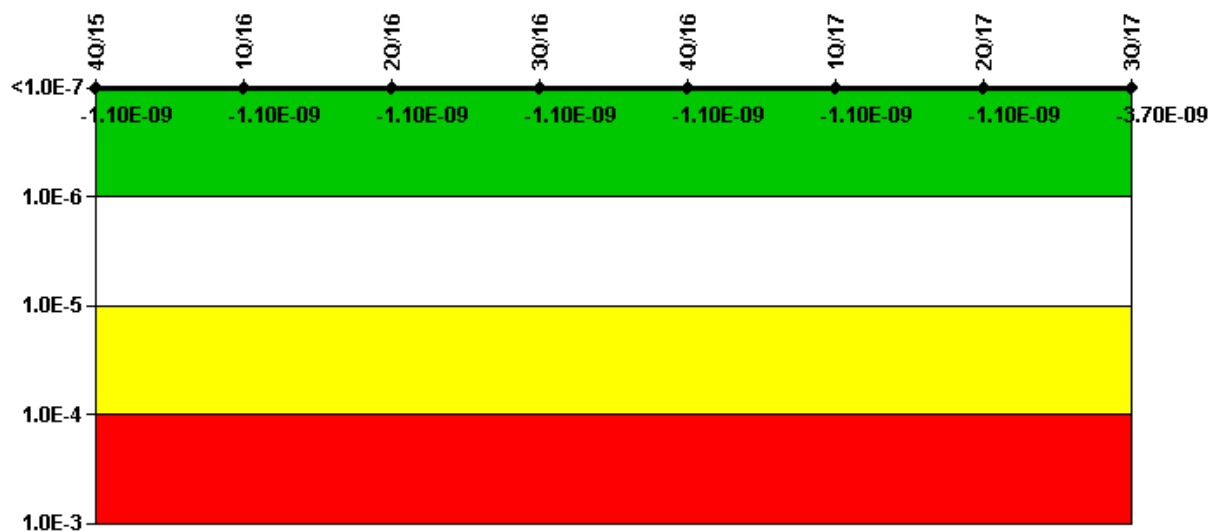
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-2.61E-09	-2.60E-09	-2.80E-09	-3.01E-09	-3.83E-09	-4.62E-09	-3.37E-09	1.52E-09
URI (ΔCDF)	-1.95E-08	-2.00E-08	-2.05E-08	-2.05E-08	-2.00E-08	-1.89E-08	-2.00E-08	-2.74E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.40E-08	-2.40E-08	-2.30E-08	-2.60E-08

▲ TOP

Licensee Comments:

3Q/17: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System

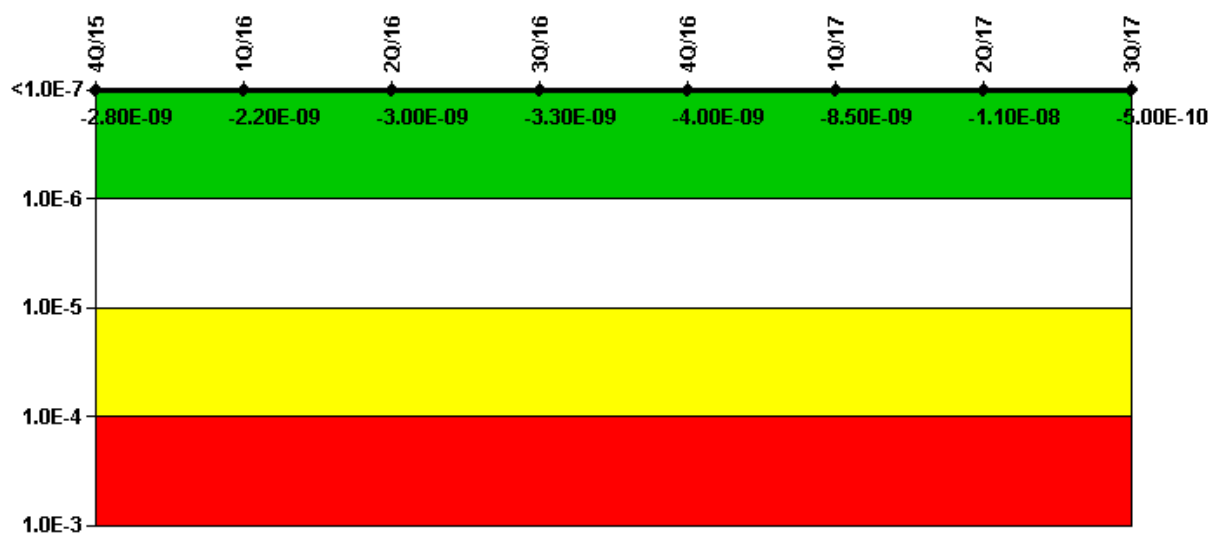
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-1.36E-10	-1.36E-10	-1.36E-10	-1.36E-10	-1.38E-10	-1.38E-10	-1.38E-10	-5.53E-10
URI (ΔCDF)	-9.46E-10	-9.55E-10	-9.36E-10	-9.46E-10	-9.67E-10	-9.76E-10	-9.76E-10	-3.17E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-3.70E-09

▲ TOP

Licensee Comments:

3Q/17: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

Mitigating Systems Performance Index, Cooling Water Systems

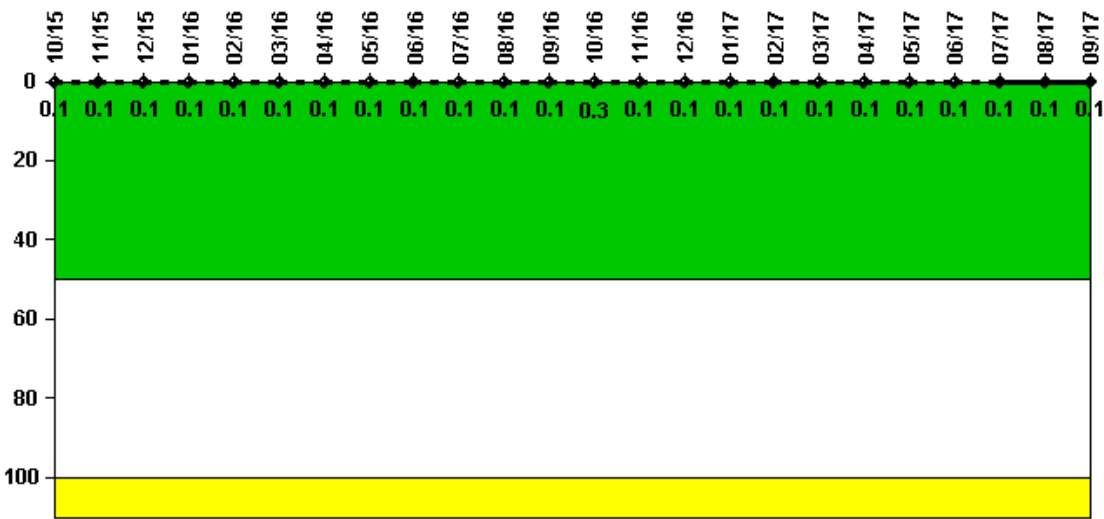
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	2.98E-09	3.01E-09	3.03E-09	2.98E-09	2.96E-09	2.96E-09	7.92E-10	2.01E-09
URI (ΔCDF)	-5.76E-09	-5.24E-09	-6.03E-09	-6.27E-09	-6.97E-09	-1.14E-08	-1.18E-08	-2.51E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.80E-09	-2.20E-09	-3.00E-09	-3.30E-09	-4.00E-09	-8.50E-09	-1.10E-08	-5.00E-10

▲ TOP

Licensee Comments:

3Q/17: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

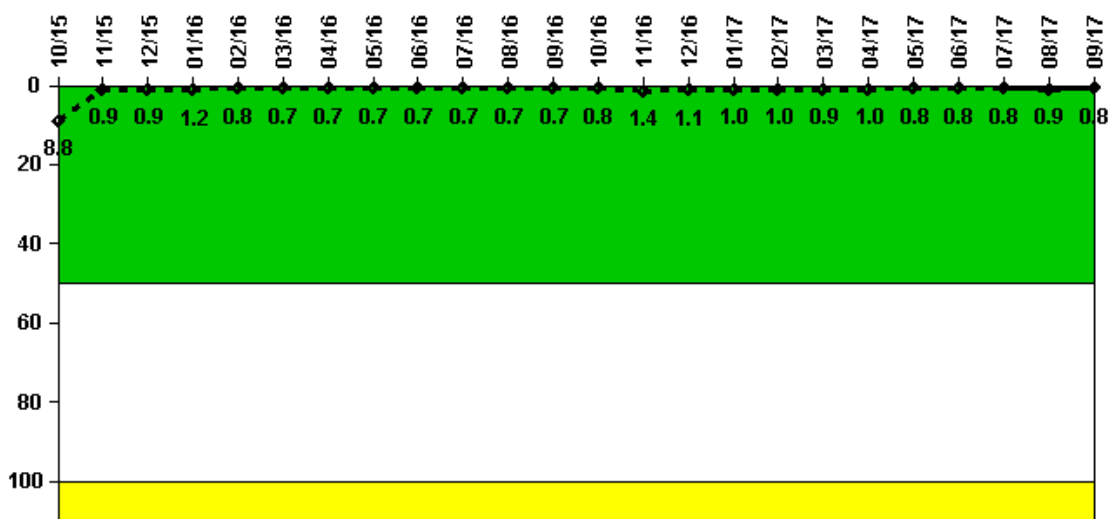
Notes

Reactor Coolant System Activity	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum activity	0.000620	0.000813	0.000903	0.000789	0.000840	0.000893	0.000943	0.000895	0.001120	0.001110	0.001090	0.001070
Technical specification limit	1.0	1.0	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	0.002690	0.000775	0.000652	0.000568	0.000628	0.000633	0.000650	0.001070	0.000722	0.000730	0.000752	0.000794
Technical specification limit	1.0	1.0	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	0.1	0.1	0.1	0.1	0.1	0.1

▲ TOP

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum leakage	0.880	0.090	0.090	0.120	0.080	0.070	0.070	0.070	0.070	0.070	0.070	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

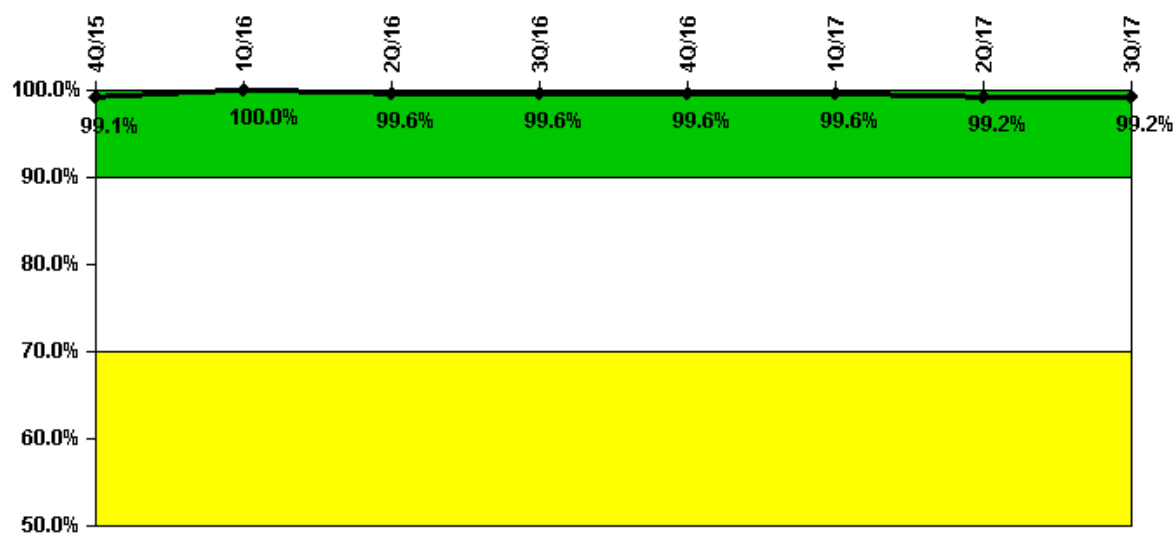
Indicator value	8.8	0.9	0.9	1.2	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Reactor Coolant System Leakage	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum leakage	0.080	0.140	0.110	0.100	0.100	0.090	0.100	0.080	0.080	0.080	0.090	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Indicator value	0.8	1.4	1.1	1.0	1.0	0.9	1.0	0.8	0.8	0.8	0.9	0.8
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Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

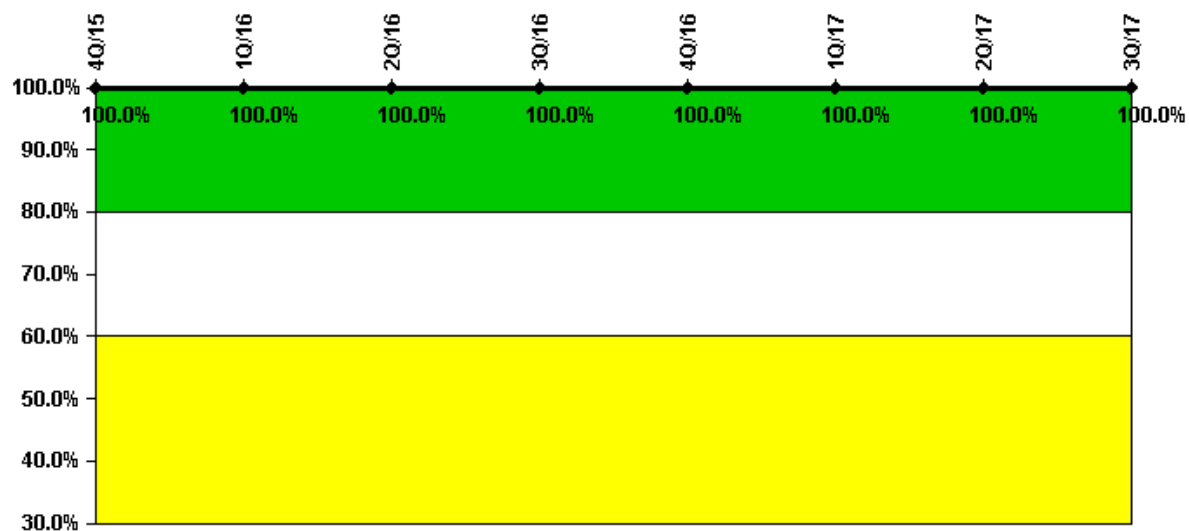
Drill/Exercise Performance	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful opportunities	20.0	39.0	45.0	21.0	24.0	37.0	33.0	42.0
Total opportunities	20.0	39.0	46.0	21.0	24.0	37.0	34.0	42.0

Indicator value 99.1% 100.0% 99.6% 99.6% 99.6% 99.6% 99.2% 99.2%

▲ TOP

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

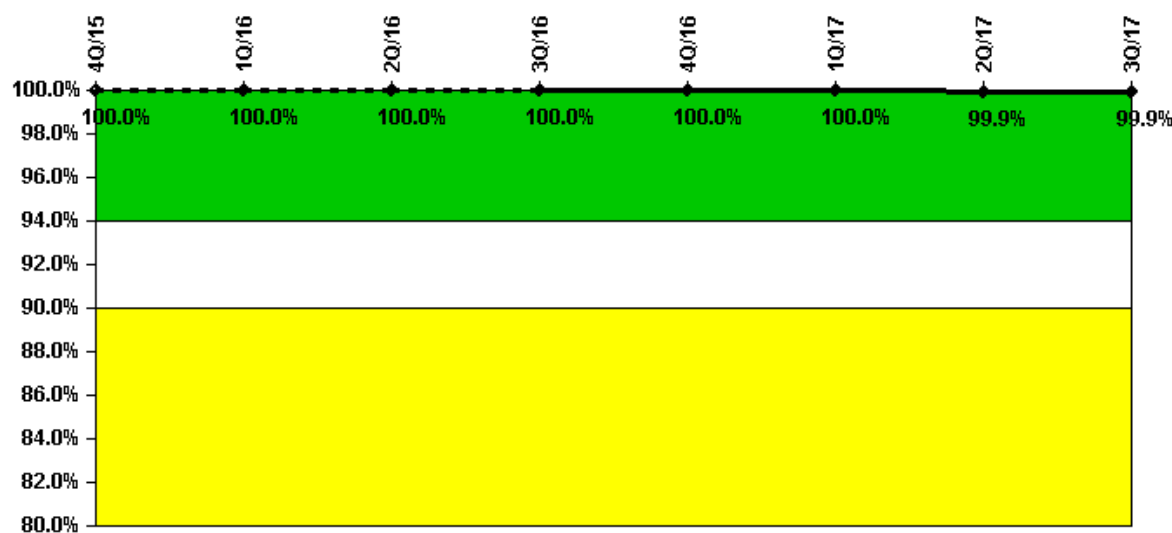
ERO Drill Participation	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Participating Key personnel	165.0	175.0	176.0	183.0	168.0	156.0	147.0	149.0
Total Key personnel	165.0	175.0	176.0	183.0	168.0	156.0	147.0	149.0

Indicator value 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%

TOP

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

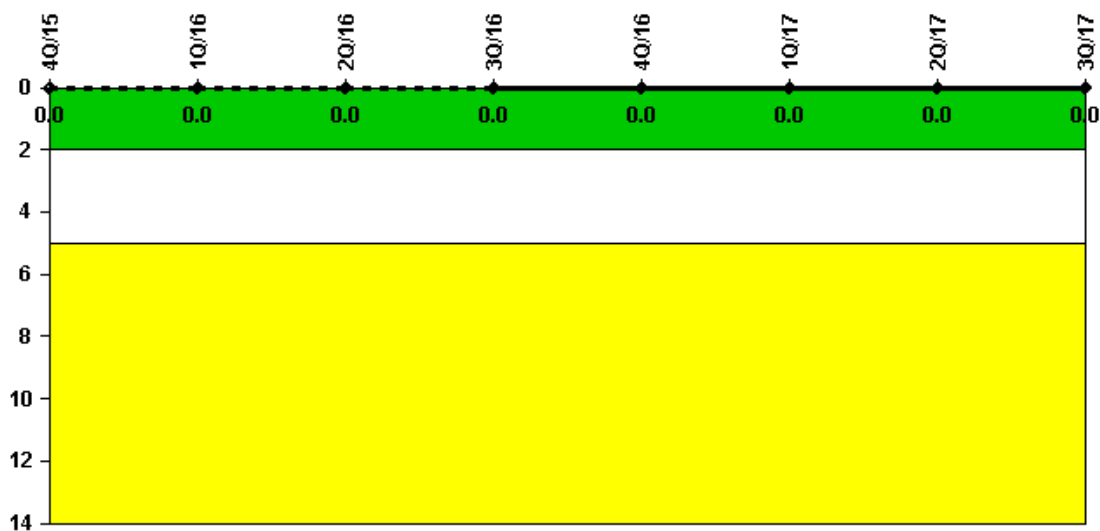
Alert & Notification System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful siren-tests	497	568	497	568	426	567	496	568
Total sirens-tests	497	568	497	568	426	568	497	568

Indicator value 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 99.9% 99.9%

▲ TOP

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

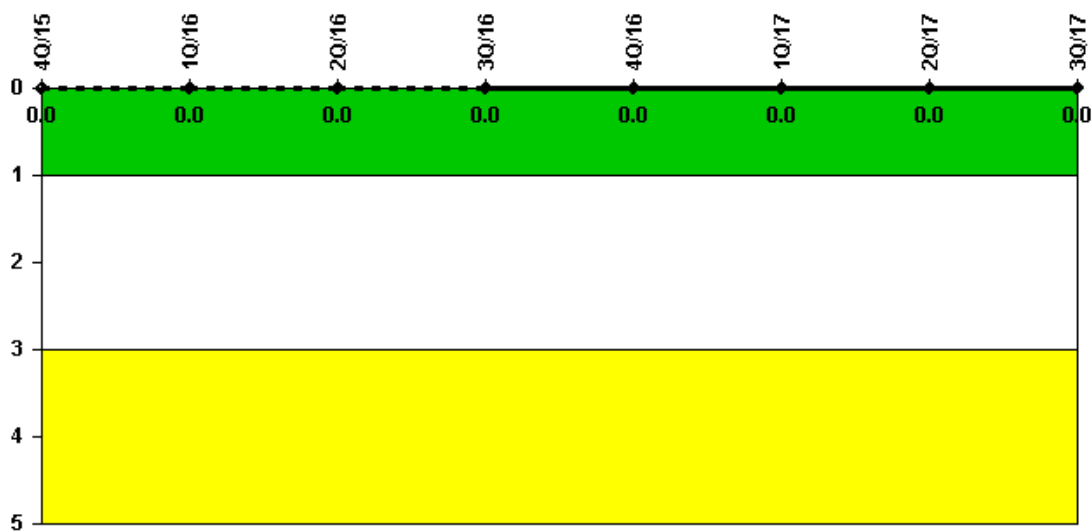
Occupational Exposure Control Effectiveness4Q/151Q/162Q/163Q/164Q/161Q/172Q/173Q/17

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

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17

RETS/ODCM occurrences 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

TOP

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: October 31, 2017

Page Last Reviewed/Updated Monday, November 06, 2017



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries> Surry 1 > Quarterly Performance Indicators

Surry 1 – Quarterly Performance Indicators

4Q/2017 Performance Indicators

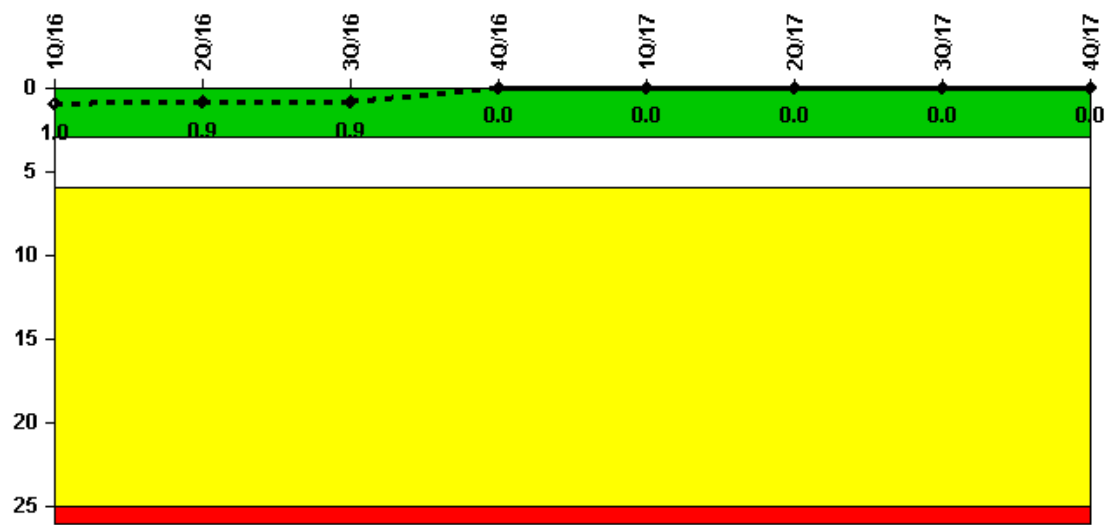
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDEU Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

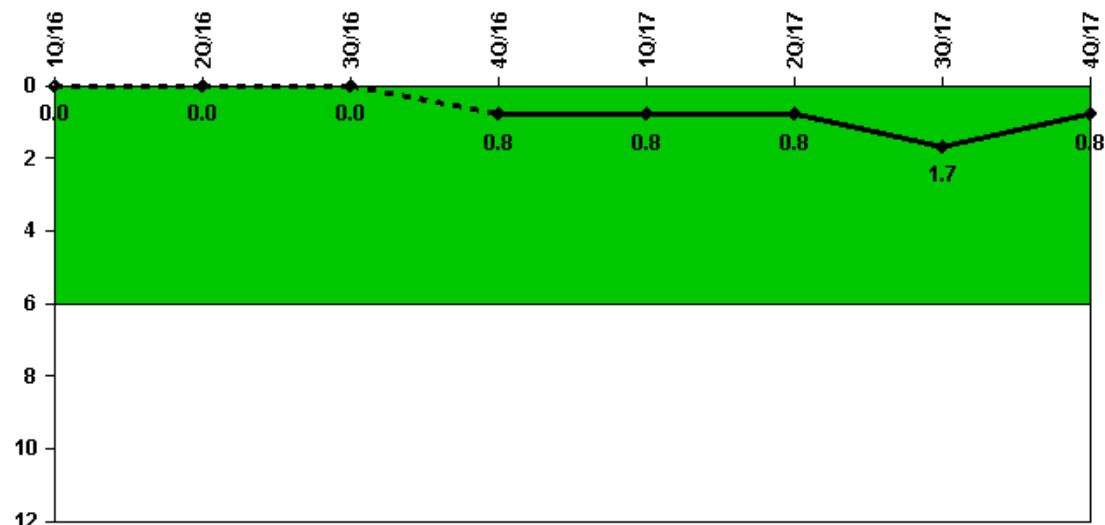
Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	1736.7	2159.0	2184.0	2174.4	2209.0
Indicator value	1.0	0.9	0.9	0	0	0	0	0

TOP

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

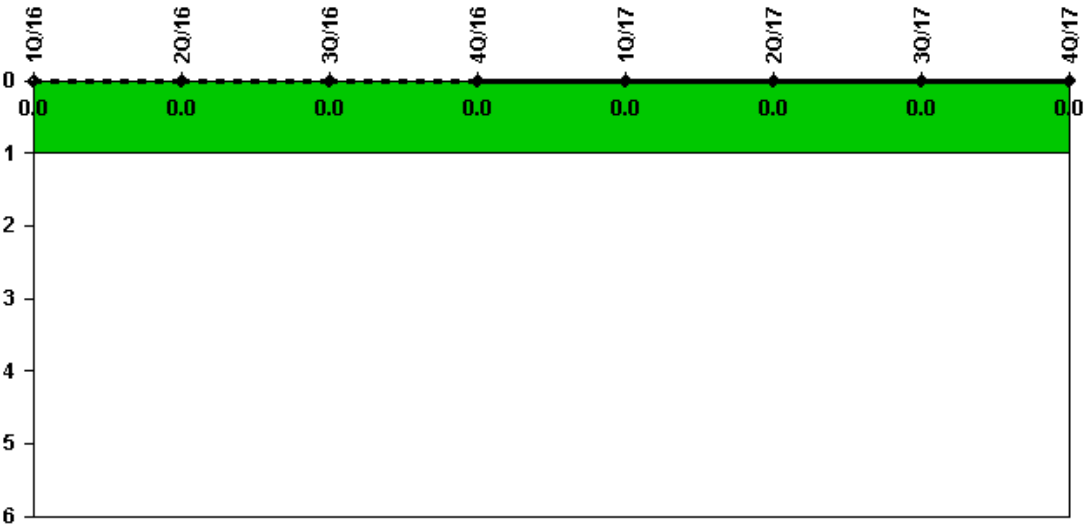
Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned power changes	0	0	0	1.0	0	0	1.0	0
Critical hours	2183.0	2184.0	2208.0	1736.7	2159.0	2184.0	2174.4	2209.0
Indicator value	0	0	0	0.8	0.8	0.8	1.7	0.8

TOP

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

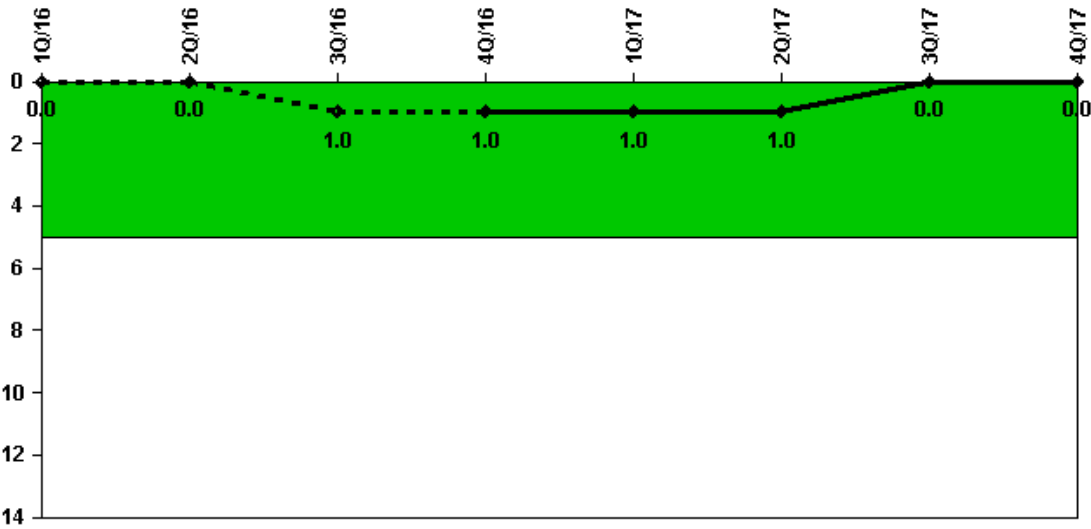
Notes

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

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

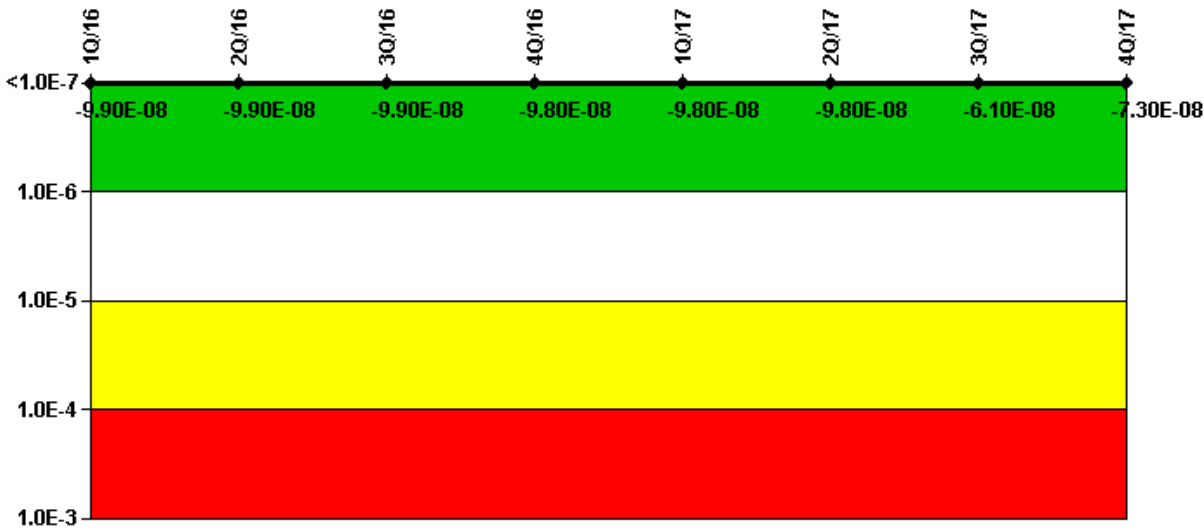
Safety System Functional Failures (PWR)	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Safety System Functional Failures	0	0	1	0	0	0	0	0

Indicator value	0	0	1	1	1	1	0	0
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TOP

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

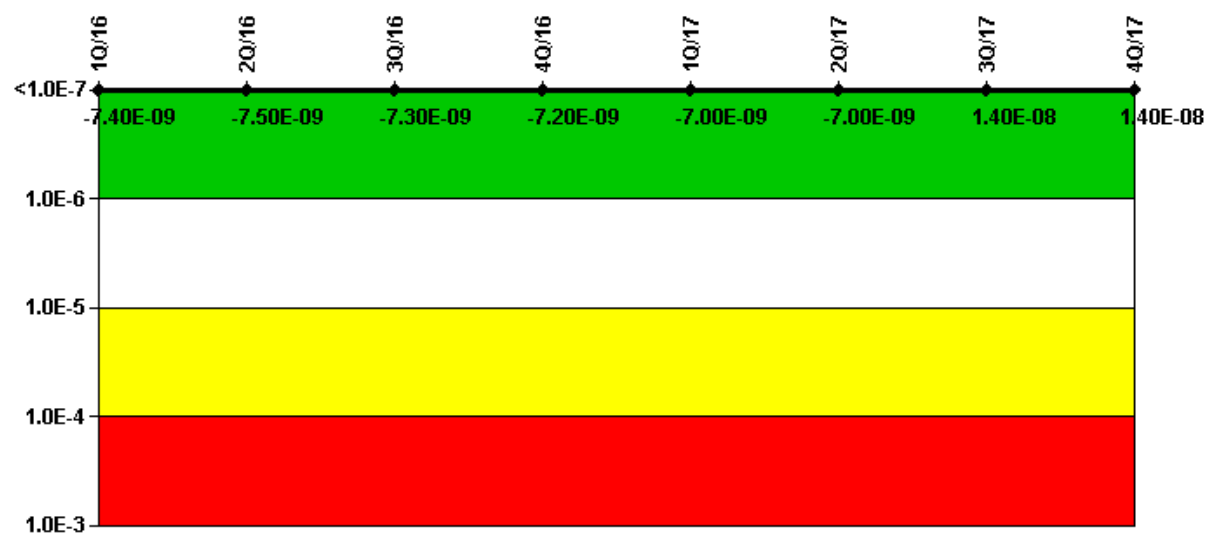
Notes**Mitigating Systems Performance Index, Emergency
AC Power System**

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (Δ CDF)	-4.88E-09	-4.55E-09	-4.55E-09	-4.70E-09	-4.70E-09	-4.70E-09	-1.66E-09	-1.52E-08
URI (Δ CDF)	-9.42E-08	-9.46E-08	-9.43E-08	-9.33E-08	-9.33E-08	-9.29E-08	-5.89E-08	-5.78E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.90E-08	-9.90E-08	-9.90E-08	-9.80E-08	-9.80E-08	-9.80E-08	-6.10E-08	-7.30E-08

 TOP

Licensee Comments:

3Q/17: Changed PRA Parameter(s).

Mitigating Systems Performance Index, High Pressure Injection System

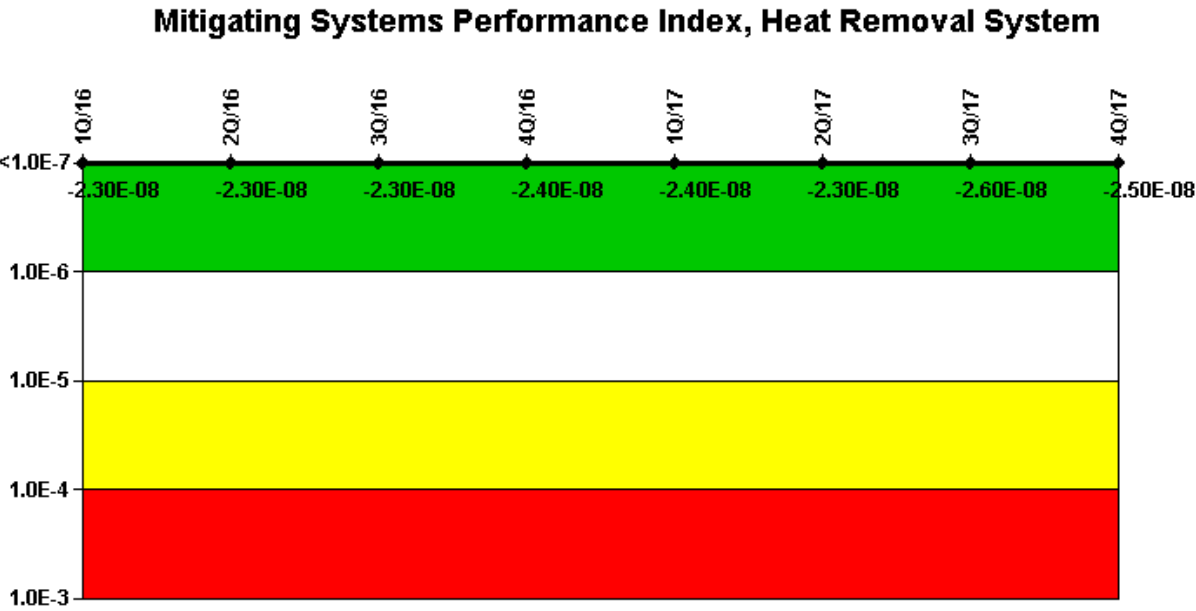
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes**Mitigating Systems Performance Index, High
Pressure Injection System**

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (Δ CDF)	-1.06E-09	-1.06E-09	-1.06E-09	-1.06E-09	-1.06E-09	-1.06E-09	-1.03E-09	-1.03E-09
URI (Δ CDF)	-6.37E-09	-6.40E-09	-6.27E-09	-6.16E-09	-5.93E-09	-5.96E-09	1.50E-08	1.51E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.40E-09	-7.50E-09	-7.30E-09	-7.20E-09	-7.00E-09	-7.00E-09	1.40E-08	1.40E-08

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s).



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

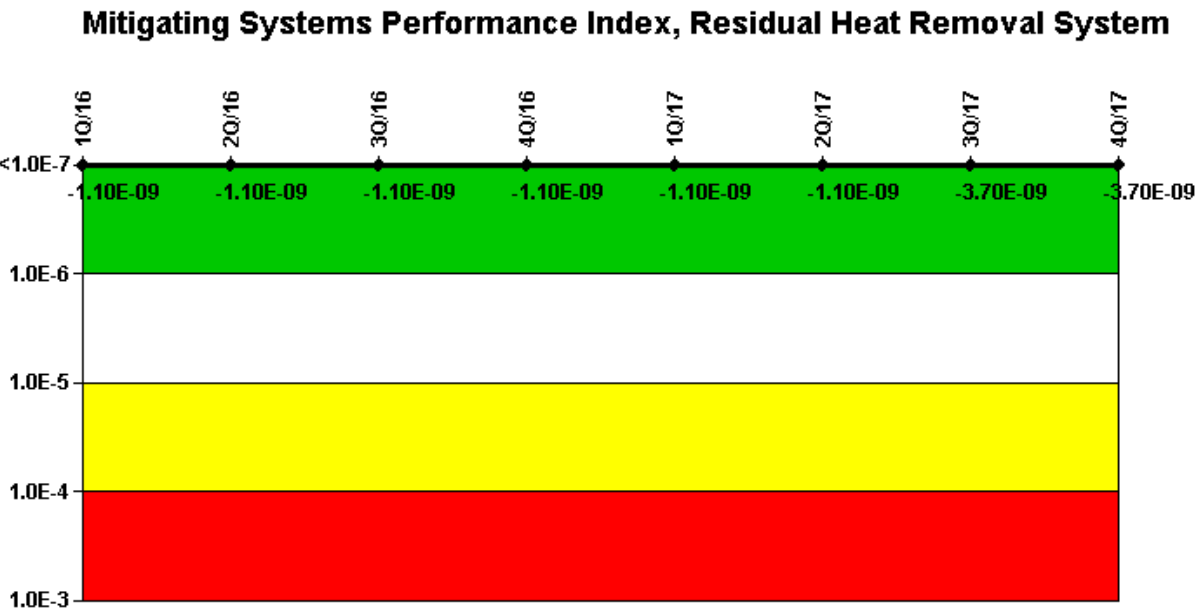
Notes

Mitigating Systems Performance Index, Heat Removal System

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-2.60E-09	-2.80E-09	-3.01E-09	-3.83E-09	-4.62E-09	-3.37E-09	1.52E-09	1.54E-09
URI (ΔCDF)	-2.00E-08	-2.05E-08	-2.05E-08	-2.00E-08	-1.89E-08	-2.00E-08	-2.74E-08	-2.68E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-08	-2.30E-08	-2.30E-08	-2.40E-08	-2.40E-08	-2.30E-08	-2.60E-08	-2.50E-08

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s).



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

Notes

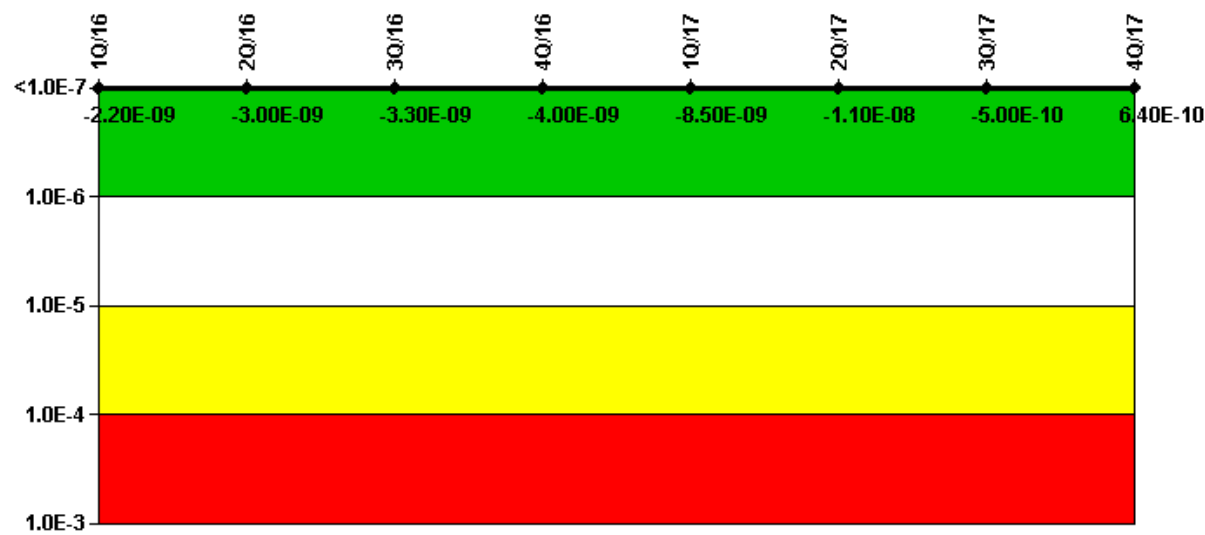
Mitigating Systems Performance Index, Residual Heat Removal System

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-1.36E-10	-1.36E-10	-1.36E-10	-1.38E-10	-1.38E-10	-1.38E-10	-5.53E-10	-5.53E-10
URI (ΔCDF)	-9.55E-10	-9.36E-10	-9.46E-10	-9.67E-10	-9.76E-10	-9.76E-10	-3.17E-09	-3.17E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-3.70E-09	-3.70E-09

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

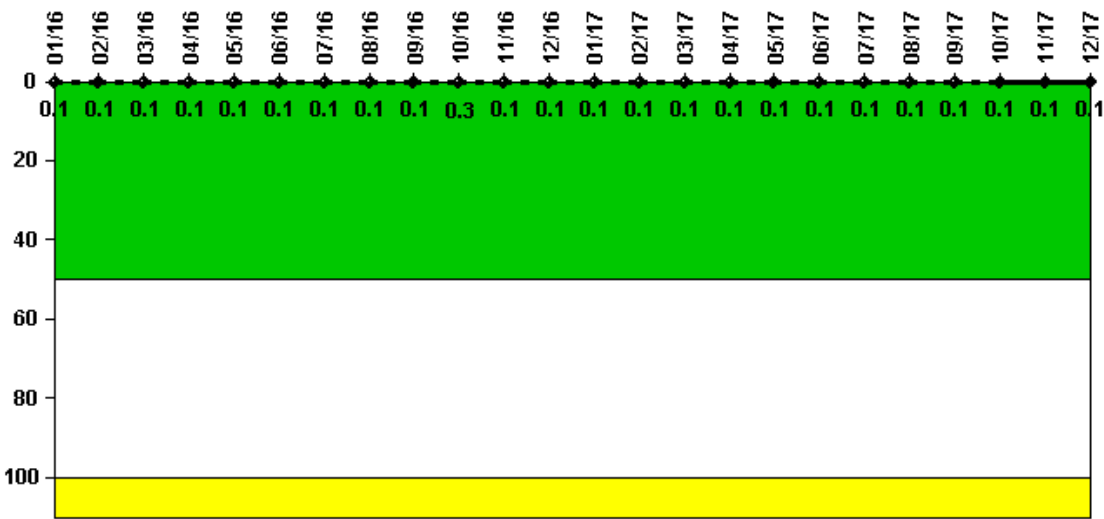
Mitigating Systems Performance Index, Cooling Water Systems

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	3.01E-09	3.03E-09	2.98E-09	2.96E-09	2.96E-09	7.92E-10	2.01E-09	3.44E-09
URI (ΔCDF)	-5.24E-09	-6.03E-09	-6.27E-09	-6.97E-09	-1.14E-08	-1.18E-08	-2.51E-09	-2.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-09	-3.00E-09	-3.30E-09	-4.00E-09	-8.50E-09	-1.10E-08	-5.00E-10	6.40E-10

TOP

Licensee Comments:
3Q/17: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

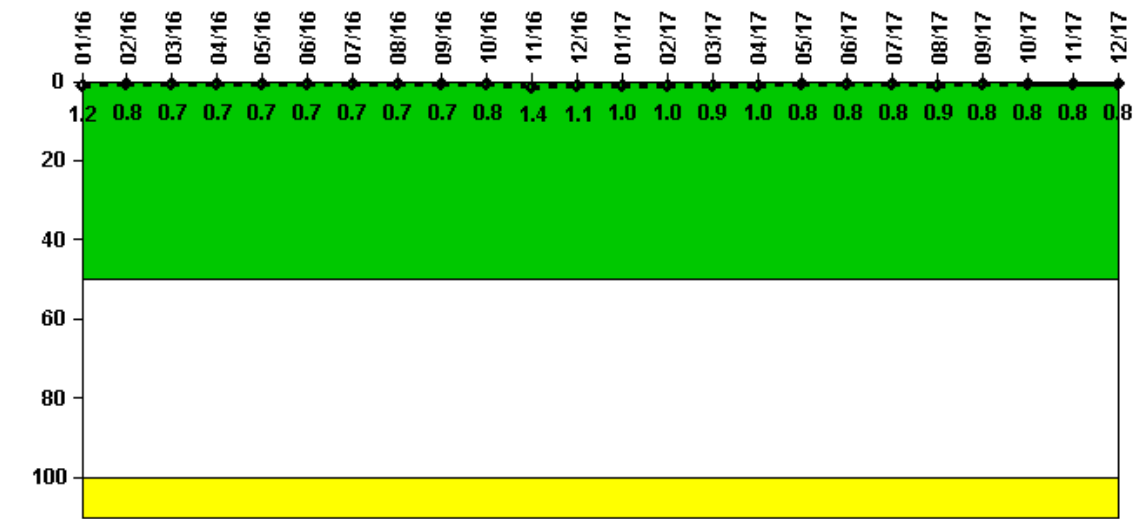
Reactor Coolant System Activity	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum activity	0.000789	0.000840	0.000893	0.000943	0.000895	0.001120	0.001110	0.001090	0.001070	0.002690	0.000775	0.000652
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	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	0.000568	0.000628	0.000633	0.000650	0.001070	0.000722	0.000730	0.000752	0.000794	0.000776	0.001000	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

TOP

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

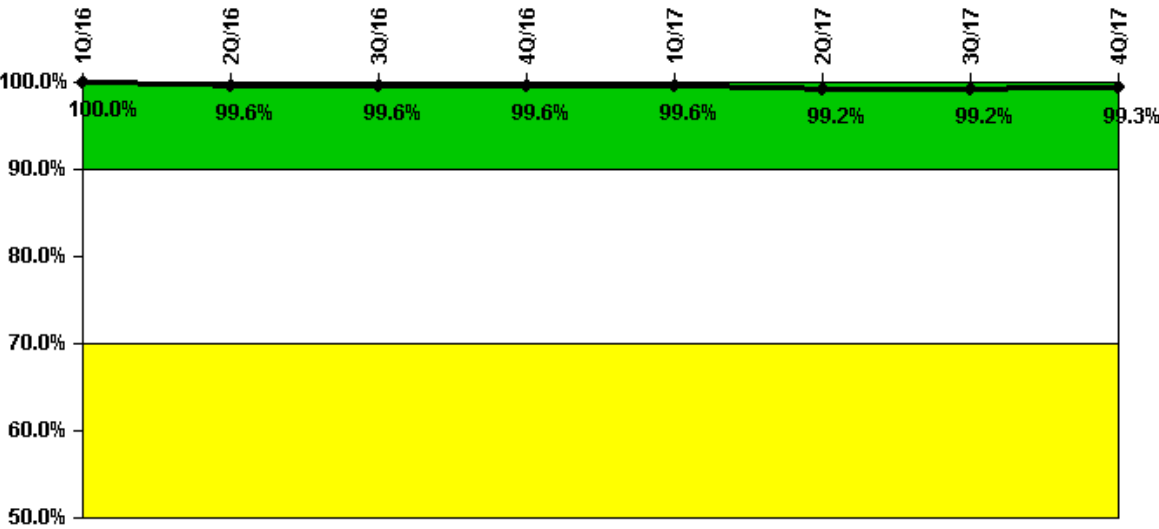
Notes

Reactor Coolant System Leakage	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum leakage	0.120	0.080	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.080	0.140	0.110
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.2	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.8	1.4	1.1
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	0.100	0.100	0.090	0.100	0.080	0.080	0.080	0.090	0.080	0.080	0.080	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.0	0.9	1.0	0.8	0.8	0.8	0.9	0.8	0.8	0.8	0.8

TOP

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

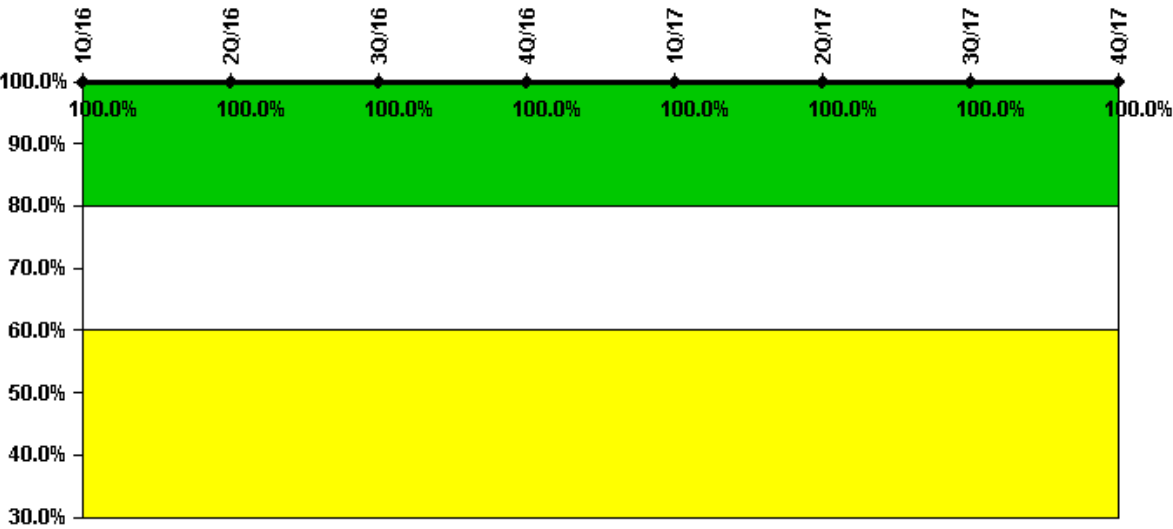
Drill/Exercise Performance	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful opportunities	39.0	45.0	21.0	24.0	37.0	33.0	42.0	33.0
Total opportunities	39.0	46.0	21.0	24.0	37.0	34.0	42.0	33.0

Indicator value	100.0%	99.6%	99.6%	99.6%	99.6%	99.2%	99.2%	99.3%
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TOP

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

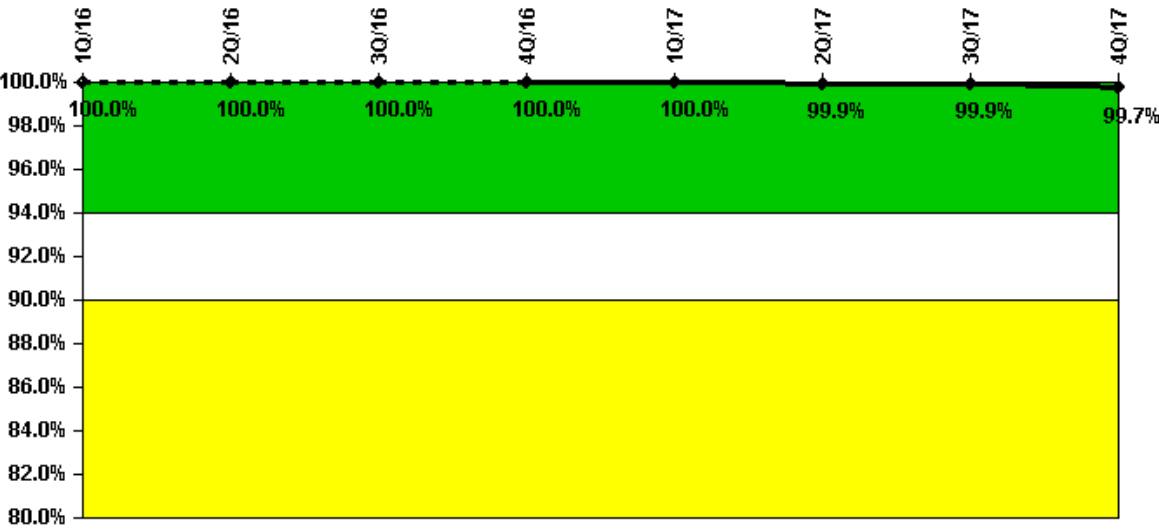
ERO Drill Participation	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Participating Key personnel	175.0	176.0	183.0	168.0	156.0	147.0	149.0	147.0
Total Key personnel	175.0	176.0	183.0	168.0	156.0	147.0	149.0	147.0

Indicator value 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%

TOP

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

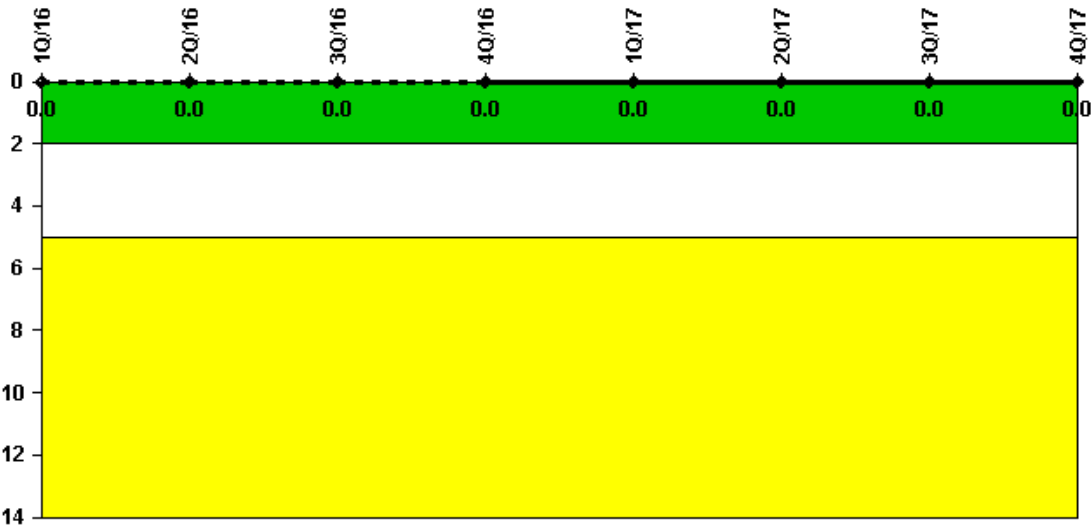
Alert & Notification System	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful siren-tests	568	497	568	426	567	496	568	493
Total sirens-tests	568	497	568	426	568	497	568	497

Indicator value 100.0% 100.0% 100.0% 100.0% 100.0% 99.9% 99.9% 99.7%

TOP

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

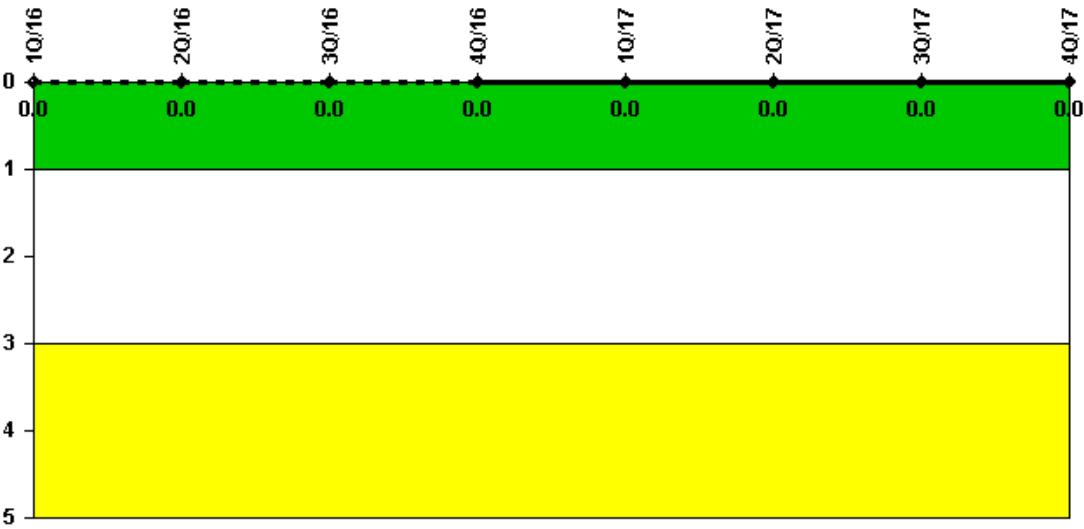
Notes

Occupational Exposure Control Effectiveness	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

TOP

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent1Q/162Q/163Q/164Q/161Q/172Q/173Q/174Q/17

RETS/ODCM occurrences000000000

Indicator value000000000

TOP

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: February 1, 2018

Page Last Reviewed/Updated Monday, November 06, 2017