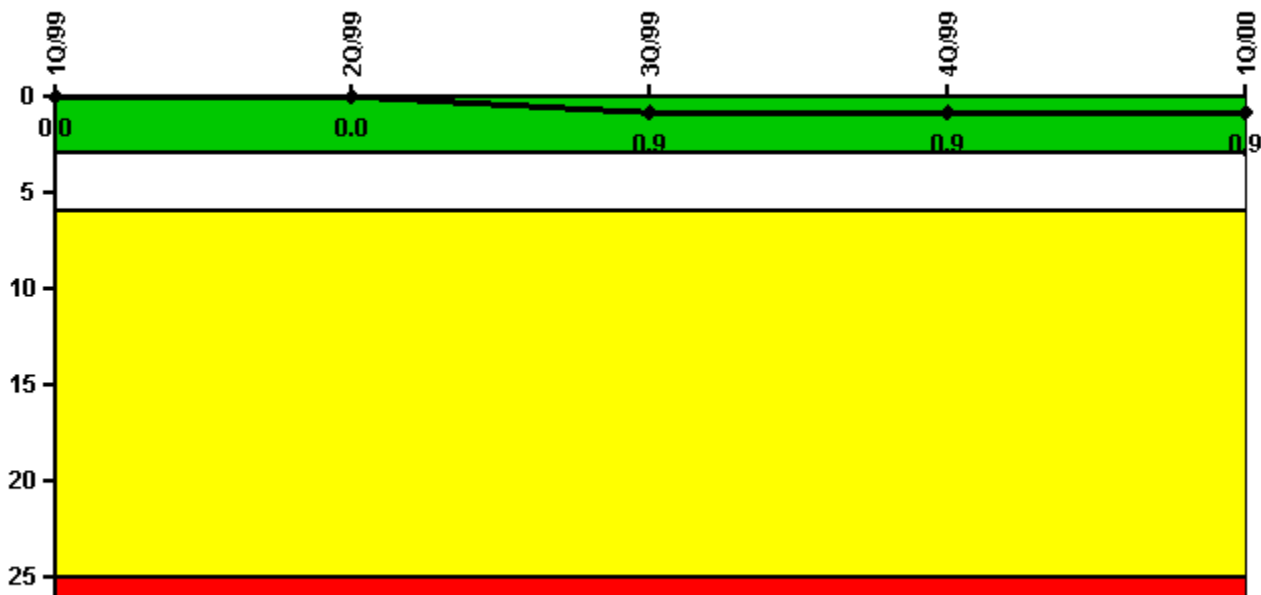


Surry 2

1Q/2000 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



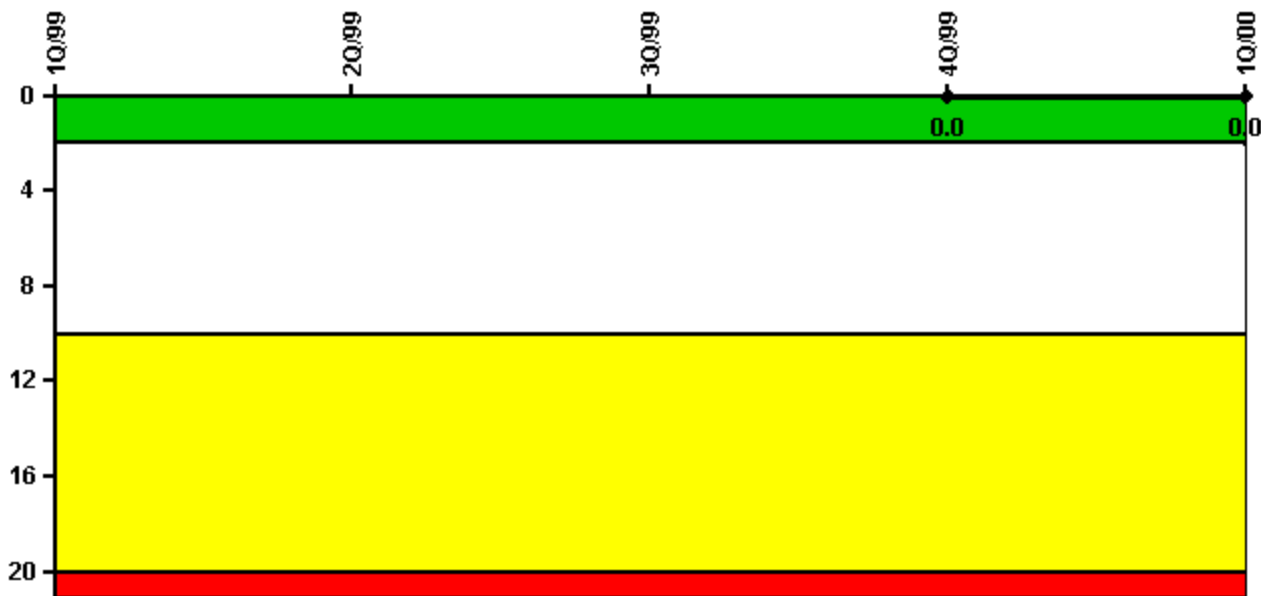
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned scrams	0	0	1.0	0	0
Critical hours	2160.0	1283.5	1966.3	2209.0	2184.0
Indicator value	0	0	0.9	0.9	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



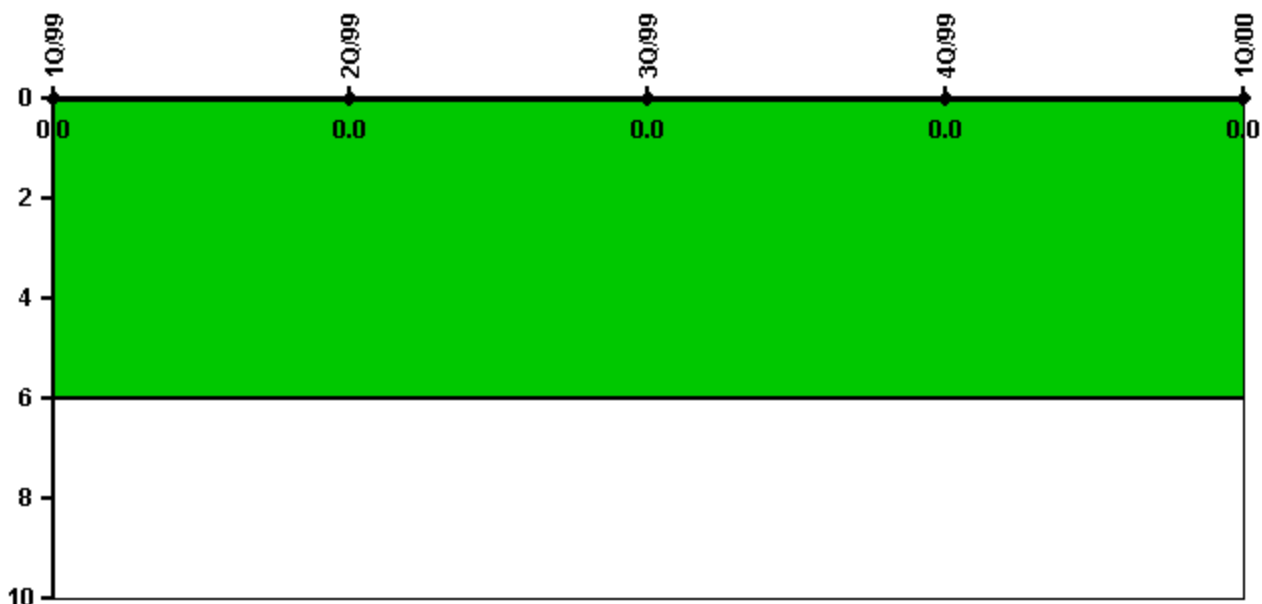
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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



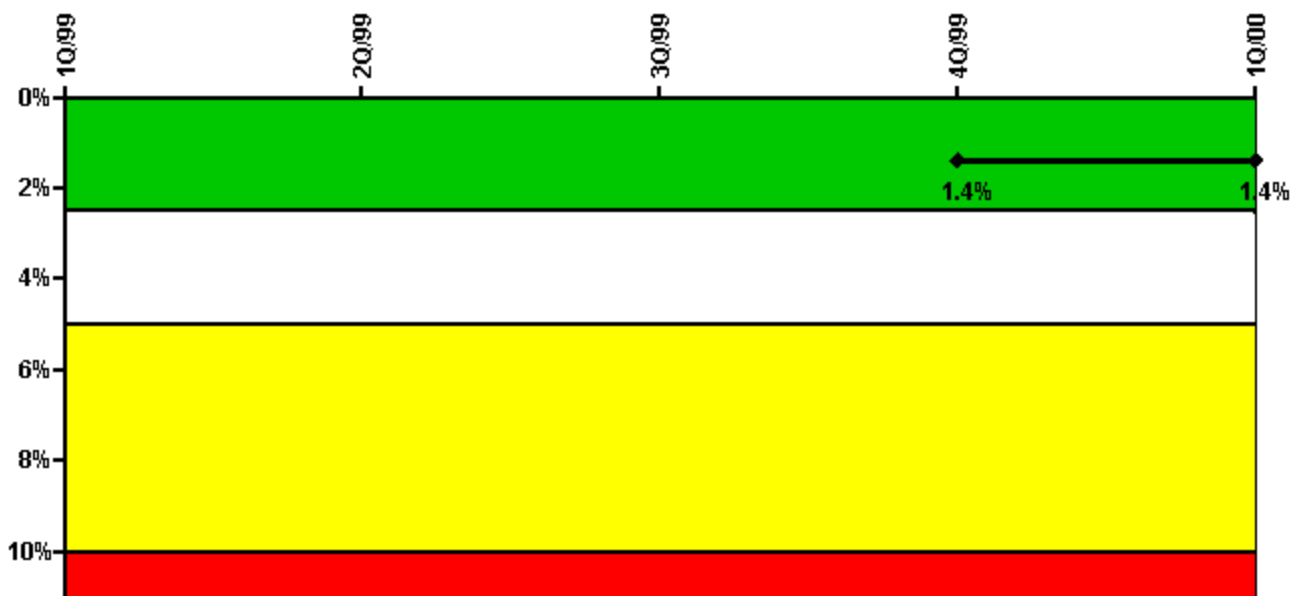
Thresholds: White > 6.0

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	0
Critical hours	2160.0	1283.5	1966.3	2209.0	2184.0
Indicator value	0	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

Notes

Safety System Unavailability, Emergency AC Power	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	93.00	52.65	22.15	12.15	15.00
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
Train 2					
Planned unavailable hours	14.10	52.60	15.65	41.05	25.68
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				1.4%	1.4%

Licensee Comments:

2Q/99: The planned unavailable hours for 2Q1999 omitted 3.9 hours. The total planned unavailable hours for this quarter has been 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%

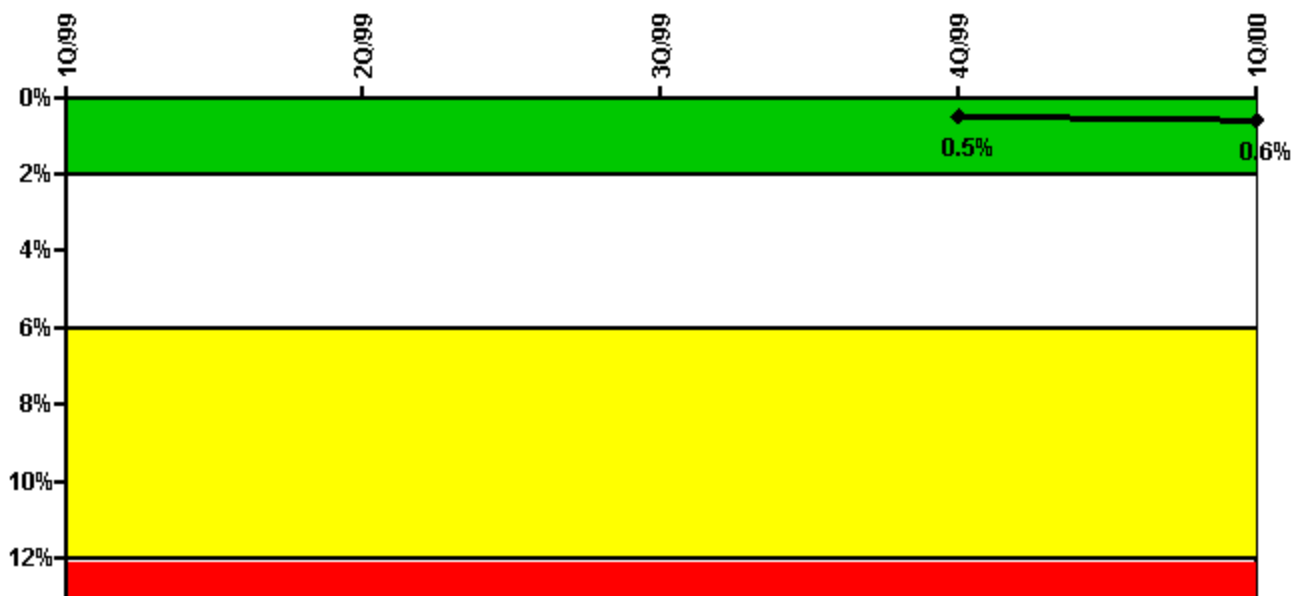
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0	0	0	6.20	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	1357.00	1966.30	2209.00	2184.00
Train 2					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	1357.00	1966.30	2209.00	2184.00
Indicator value				0%	0%

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)



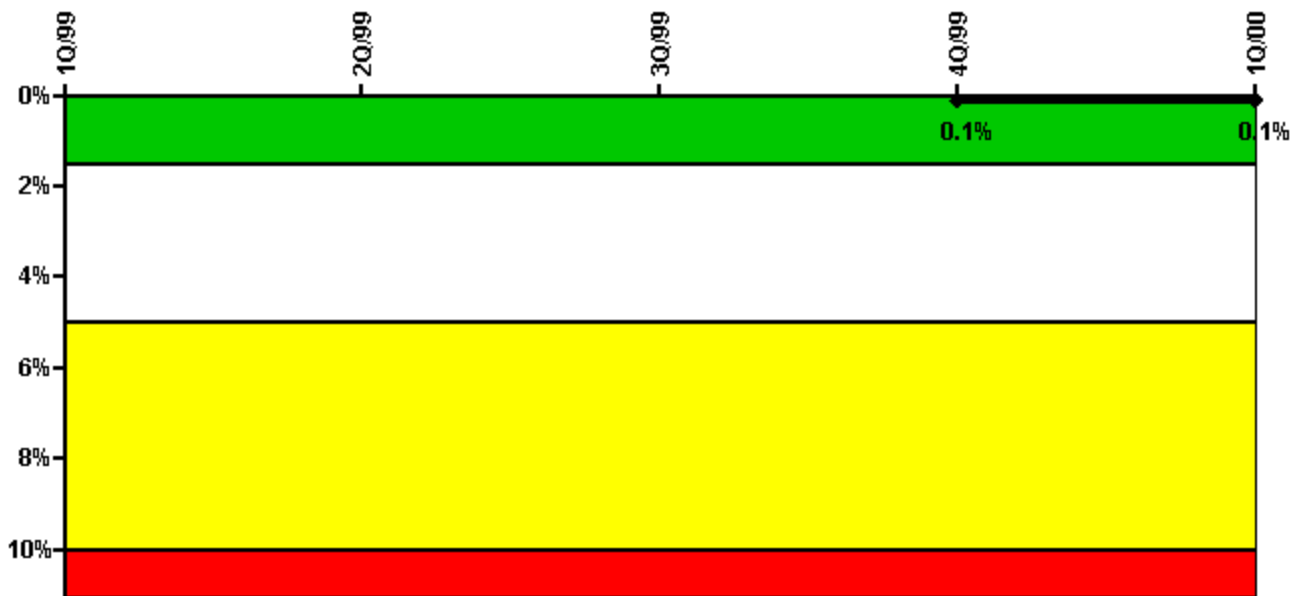
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	3.70	1.00	10.00	1.20	1.30
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	2160.00	1347.70	1998.00	2209.00	2184.00
Train 2					
Planned unavailable hours	10.00	1.75	9.75	5.10	10.20
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	1347.70	1998.00	2209.00	2184.00
Train 3					
Planned unavailable hours	10.00	0.60	14.70	11.30	20.90
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	532.70	1998.00	2209.00	2184.00
Indicator value				0.5%	0.6%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

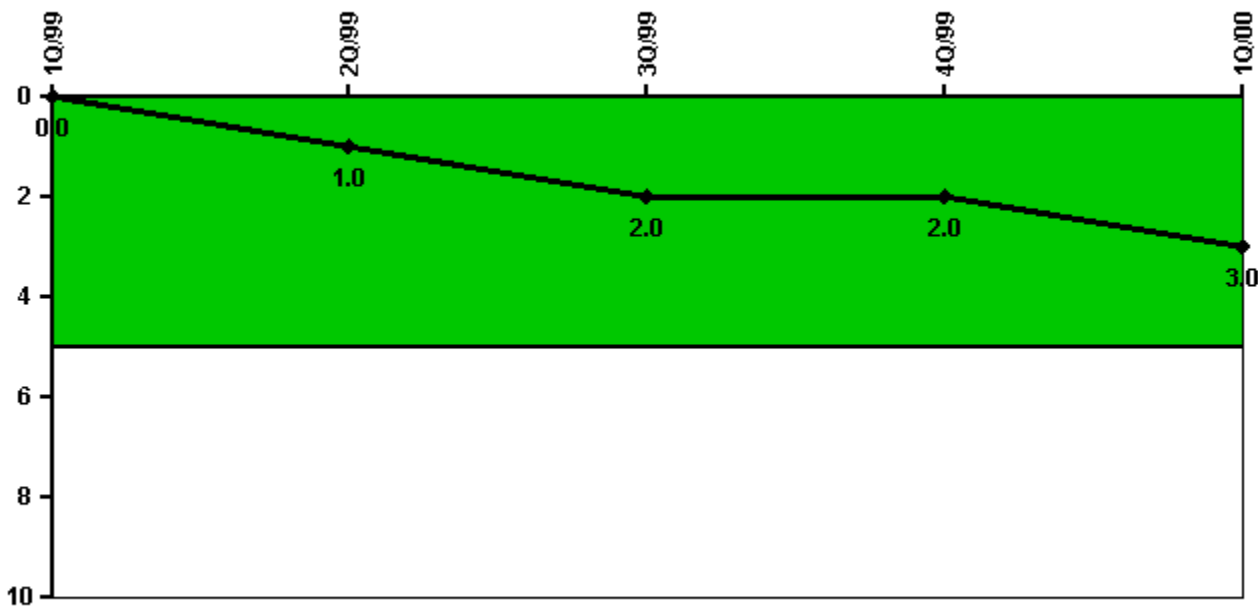
Notes

Safety System Unavailability, Residual Heat Removal System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0	0	0	0	0.10
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	1357.00	1966.30	2209.00	2184.00
Train 2					
Planned unavailable hours	0	0	0	0	8.40
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	1357.00	1966.30	2209.00	2184.00
Train 3					
Planned unavailable hours	0	10.40	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	2057.20	2208.00	2209.00	2184.00
Train 4					
Planned unavailable hours	0	7.50	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	2057.20	2208.00	2209.00	2184.00
Indicator value				0.1%	0.1%

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)



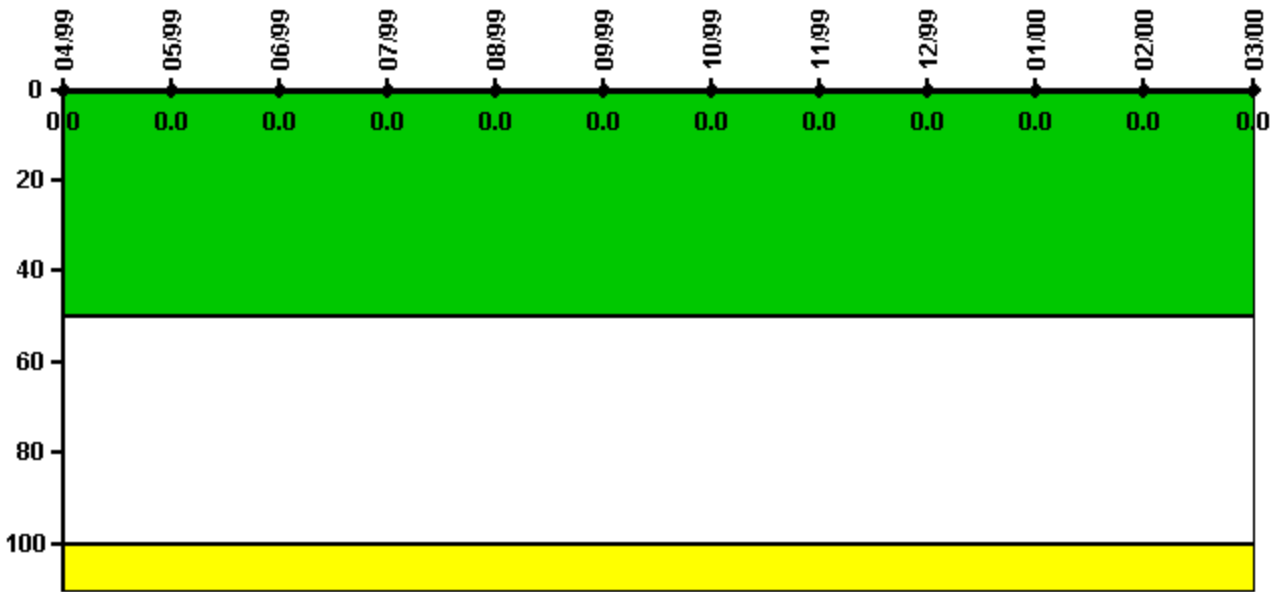
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



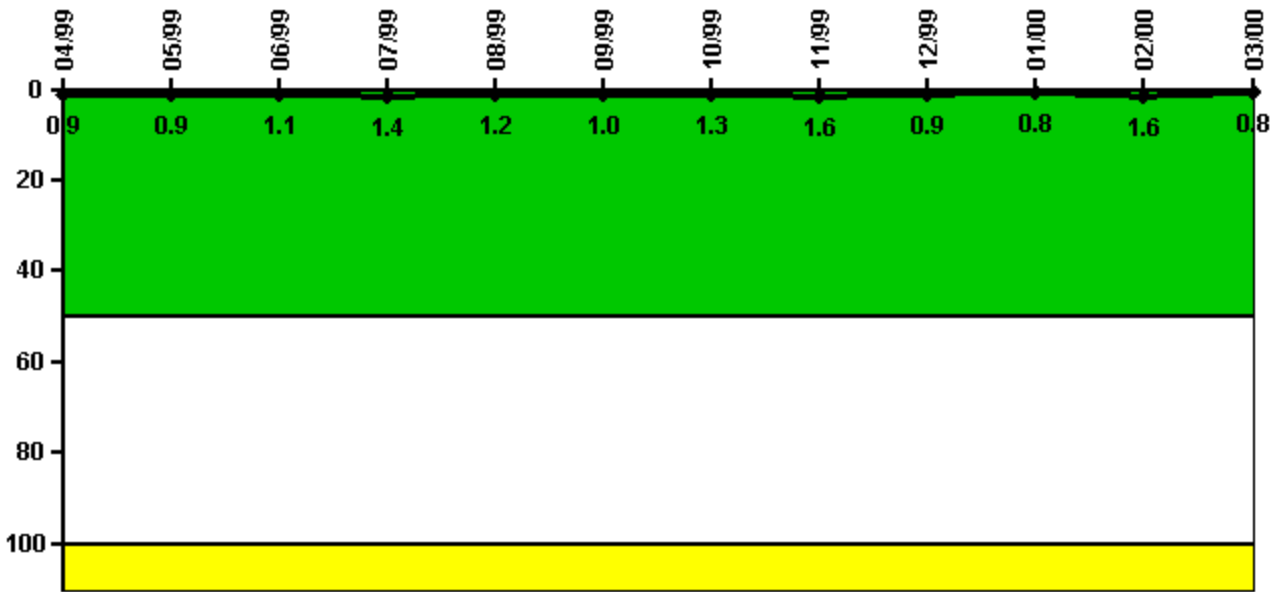
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum activity	0.000489	0.000164	0.000244	0.000301	0.000414	0.000430	0.000486	0.000404	0.000454	0.000380	0.000410	0.000436
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



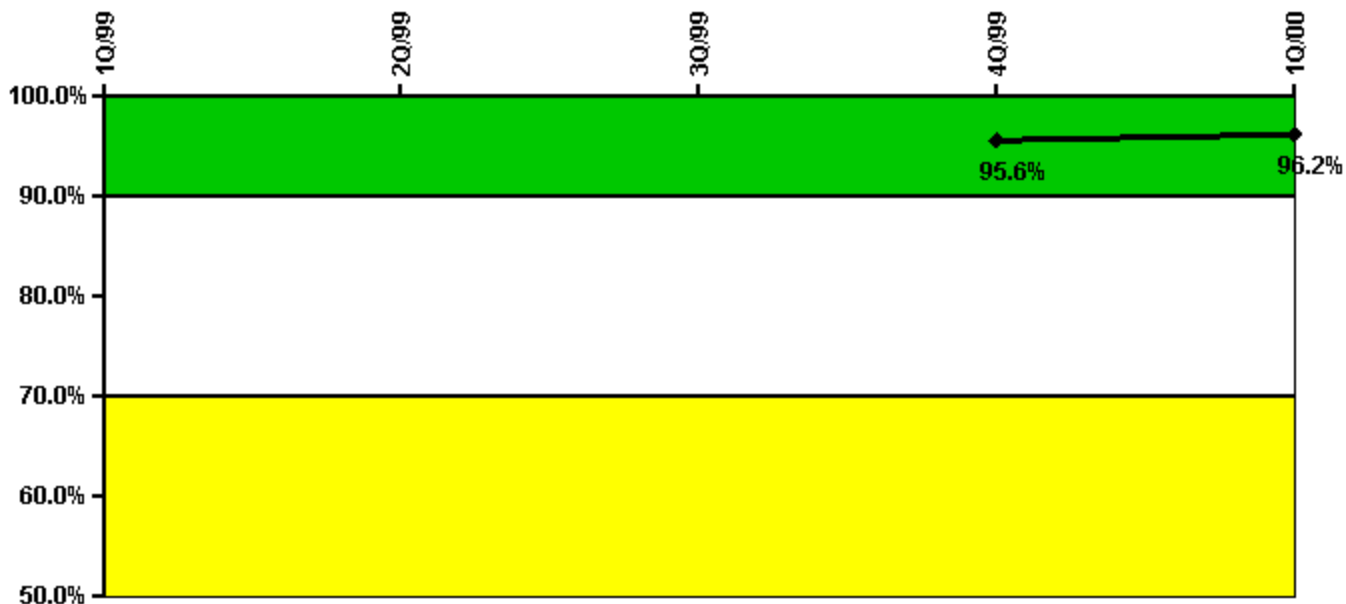
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum leakage	0.090	0.090	0.110	0.140	0.120	0.100	0.130	0.160	0.090	0.080	0.160	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	0.9	1.1	1.4	1.2	1.0	1.3	1.6	0.9	0.8	1.6	0.8

Licensee Comments: none

Drill/Exercise Performance



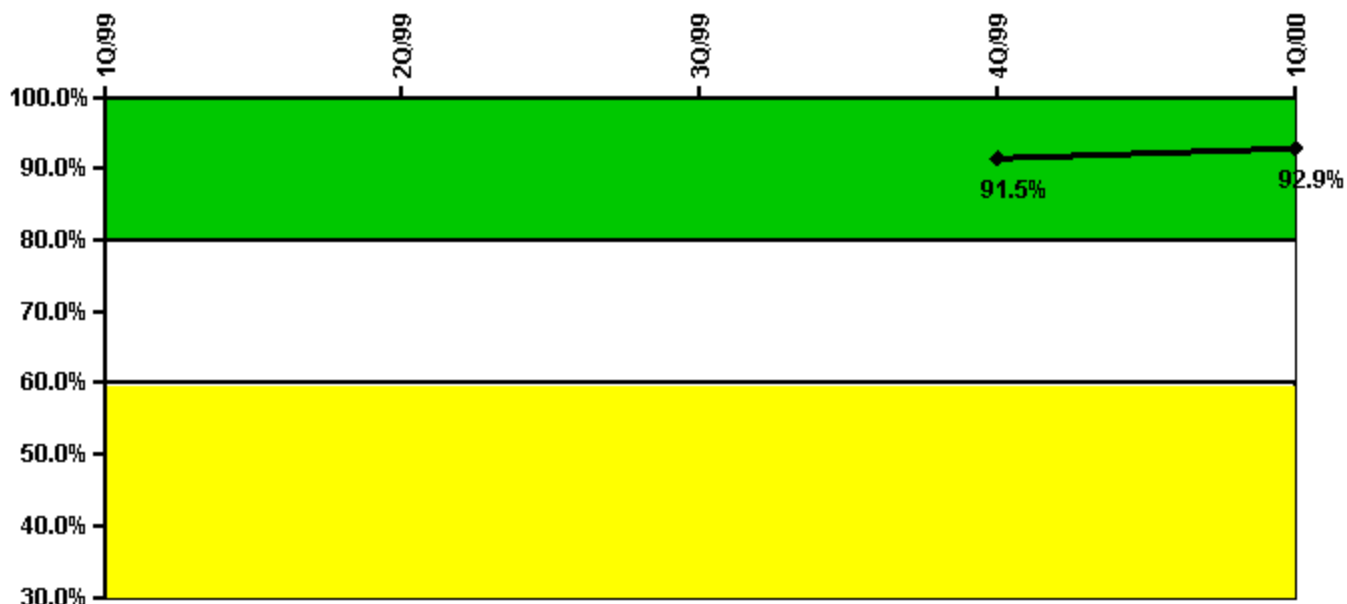
Thresholds: White < 90.0% Yellow < 70.0%

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



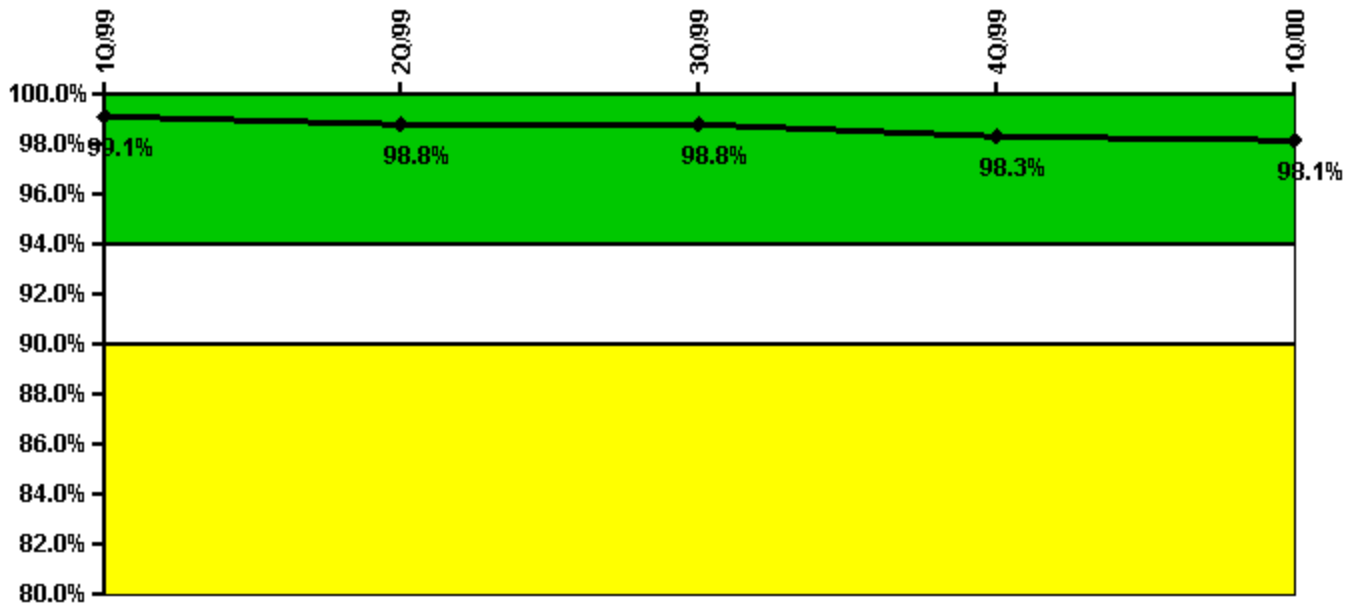
Thresholds: White < 80.0% Yellow < 60.0%

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



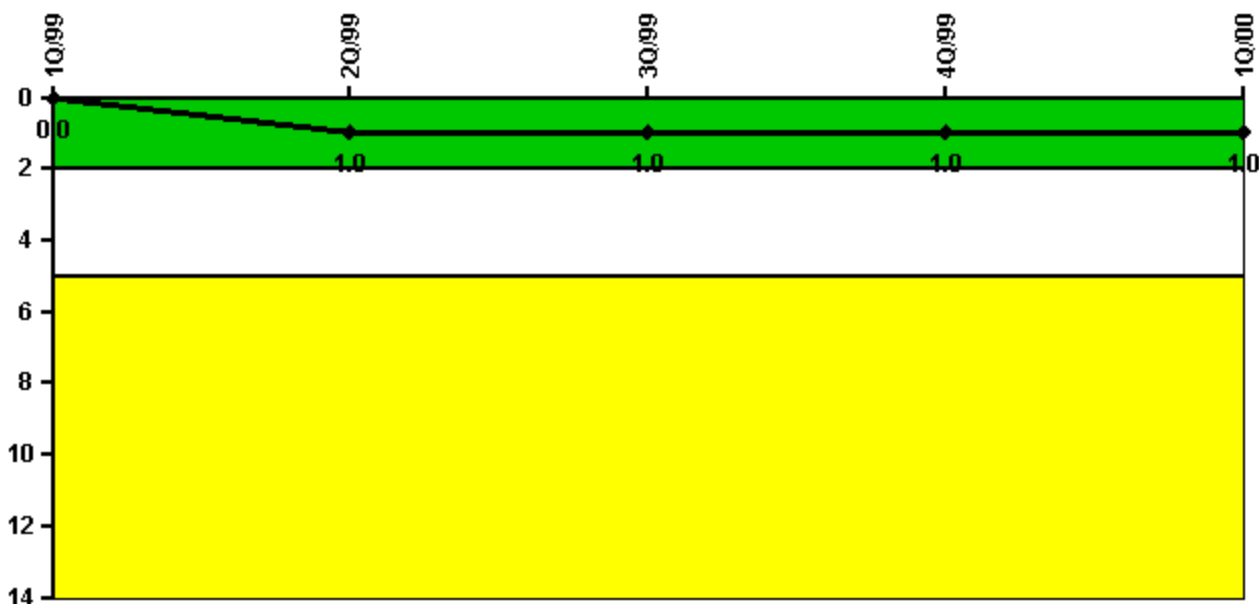
Thresholds: White < 94.0% Yellow < 90.0%

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



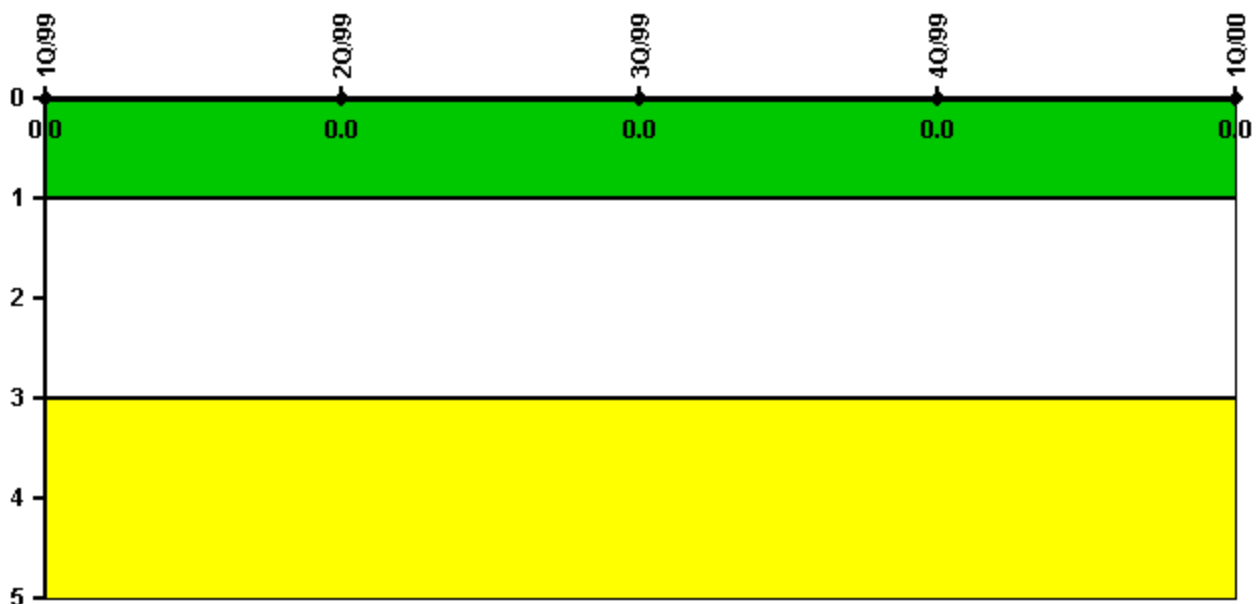
Thresholds: White > 2.0 Yellow > 5.0

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



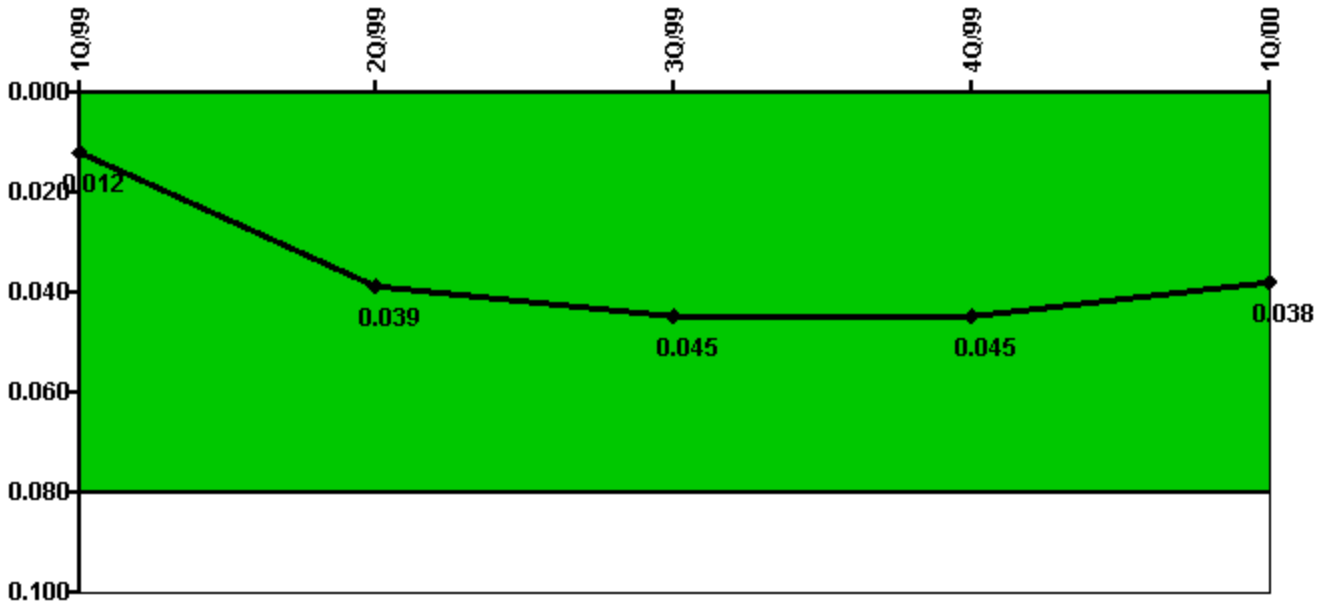
Thresholds: White > 1.0 Yellow > 3.0

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

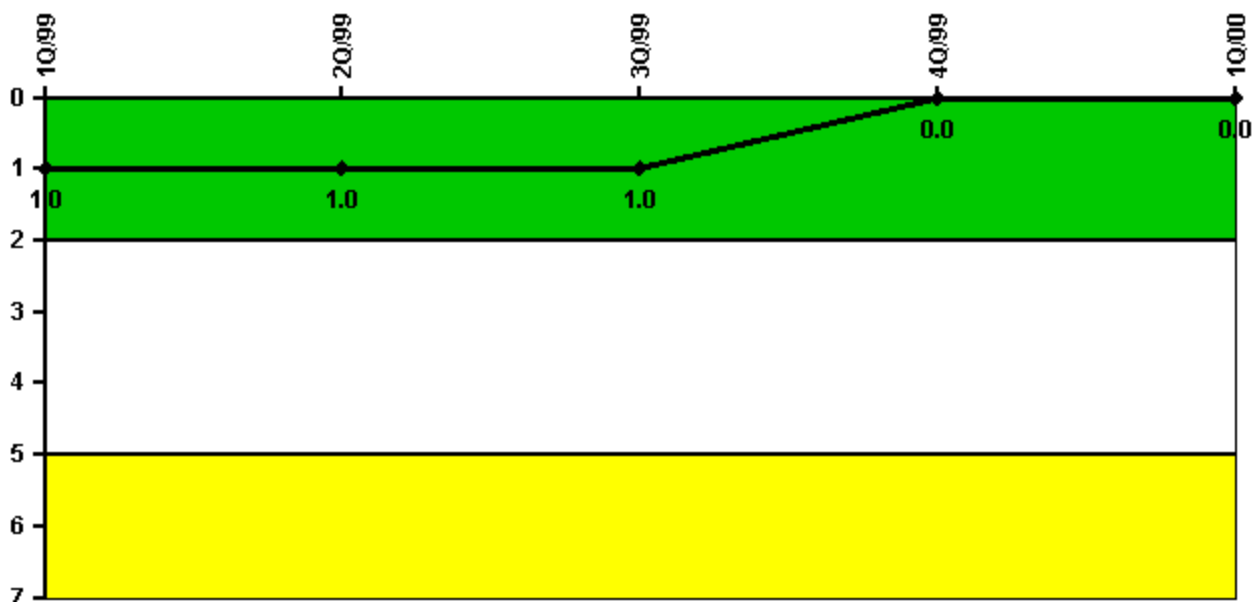
Notes

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](#)

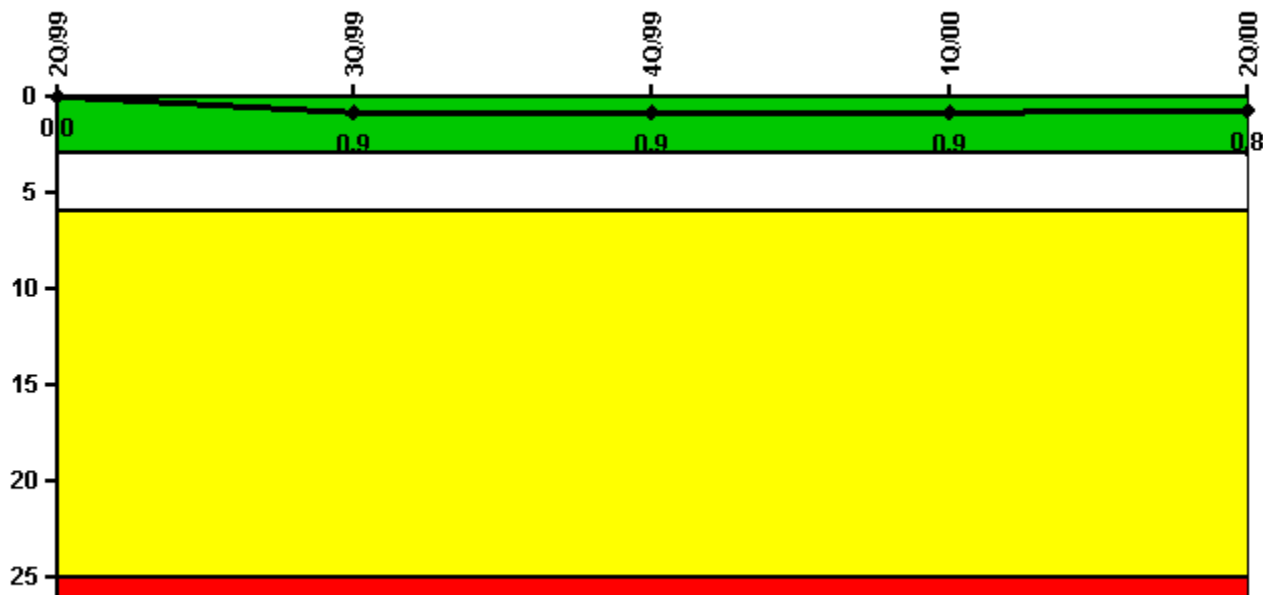
Last Modified: April 1, 2002

Surry 2

2Q/2000 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



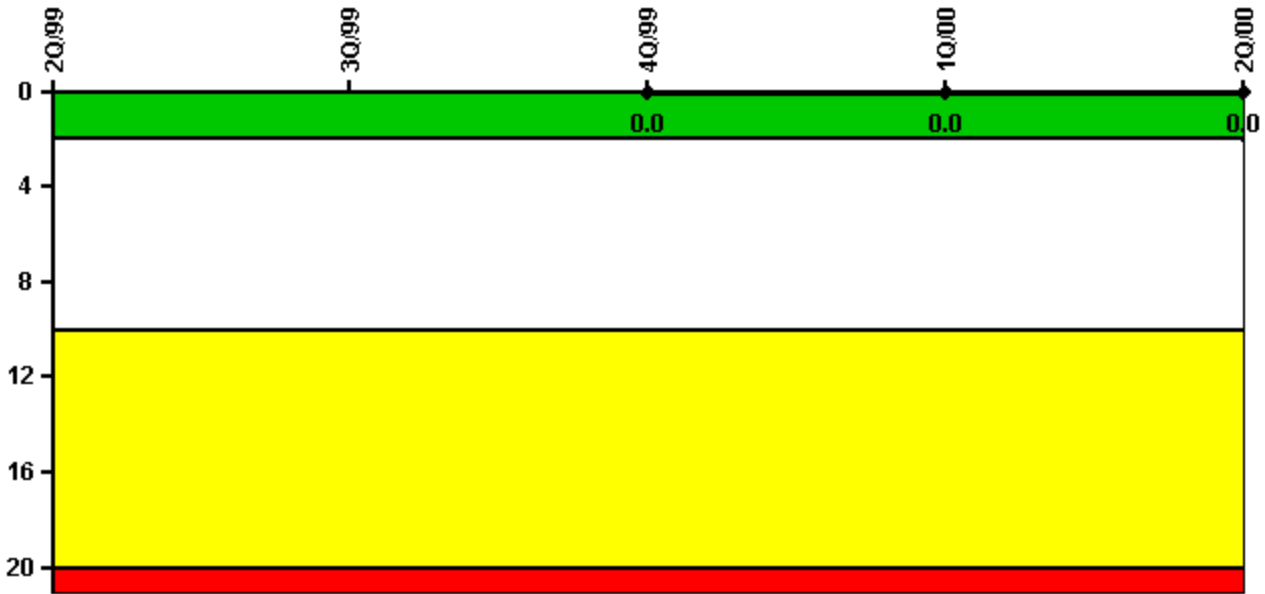
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned scrams	0	1.0	0	0	0
Critical hours	1283.5	1966.3	2209.0	2184.0	2183.0
Indicator value	0	0.9	0.9	0.9	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



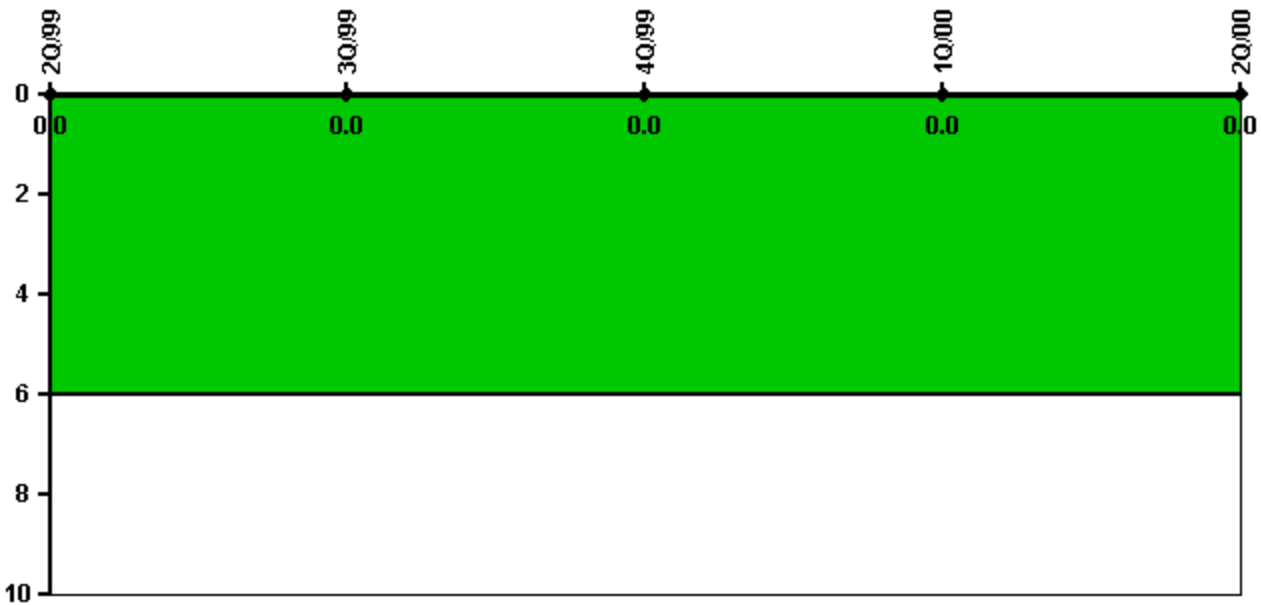
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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



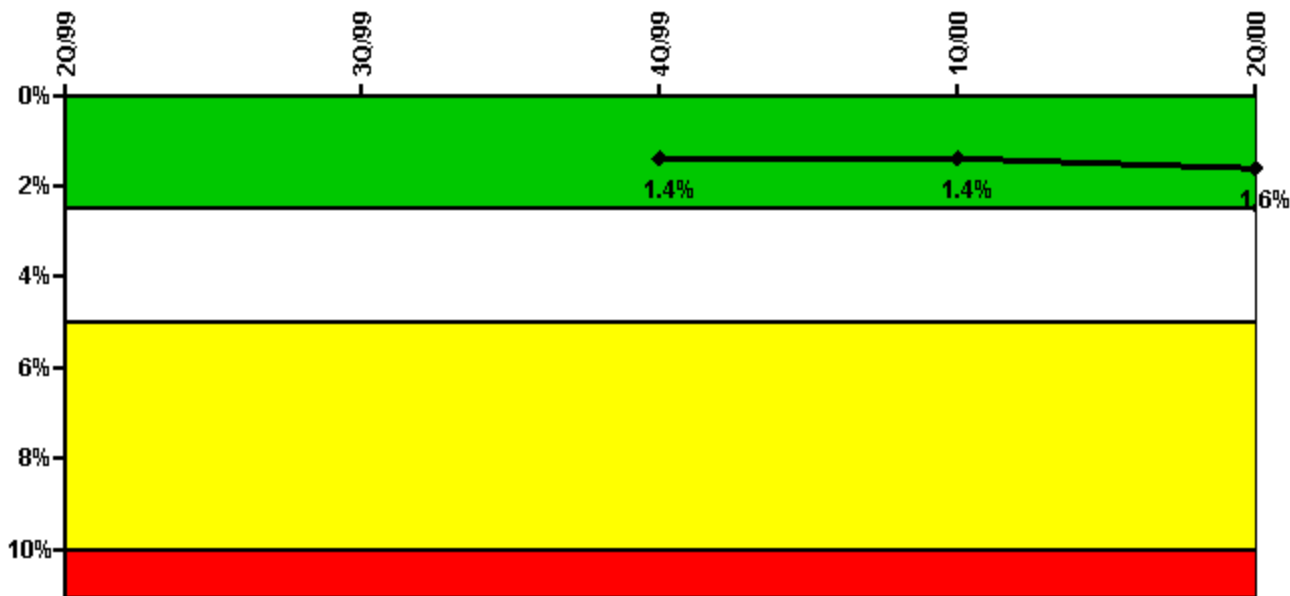
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned power changes	0	0	0	0	0
Critical hours	1283.5	1966.3	2209.0	2184.0	2183.0
Indicator value	0	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

Notes

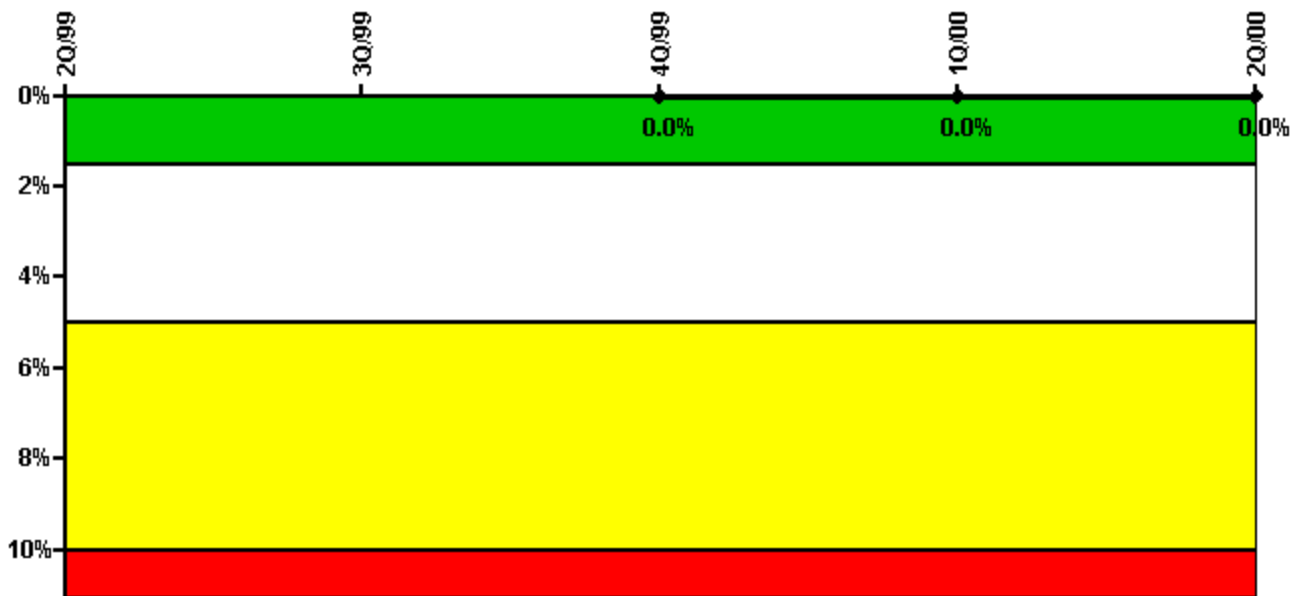
Safety System Unavailability, Emergency AC Power	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	52.65	22.15	12.15	15.00	22.60
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00
Train 2					
Planned unavailable hours	52.60	15.65	41.05	25.68	41.06
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			1.4%	1.4%	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.

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)



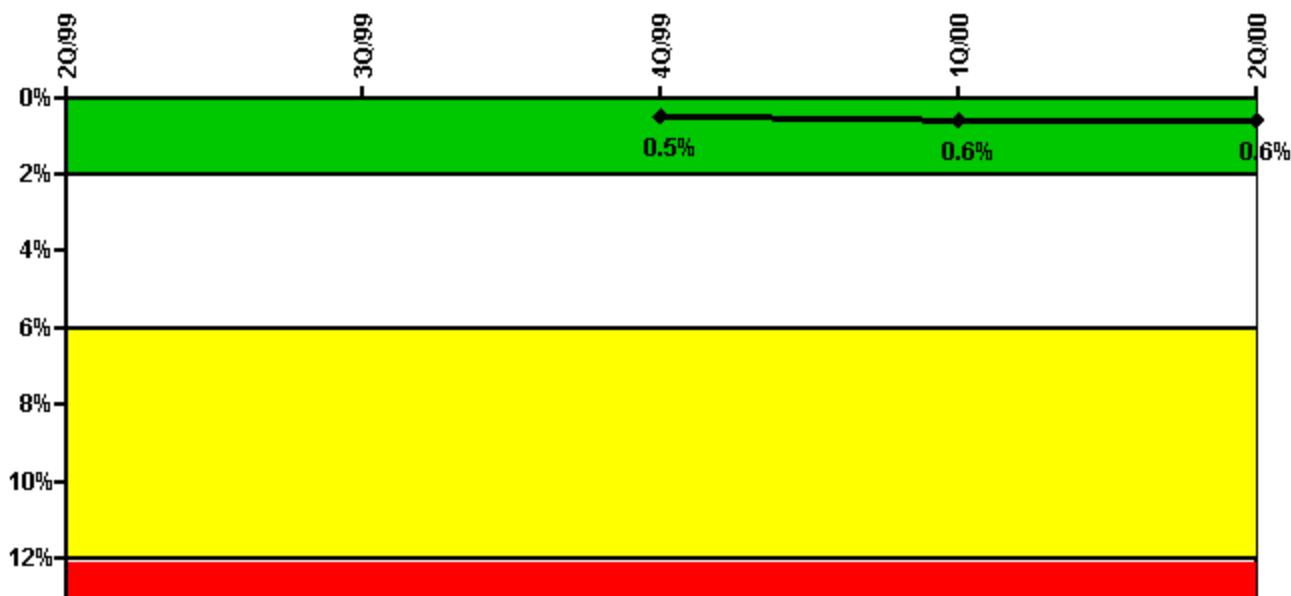
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	6.20	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	1357.00	1966.30	2209.00	2184.00	2183.00
Train 2					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1357.00	1966.30	2209.00	2184.00	2183.00
Indicator value			0%	0%	0%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



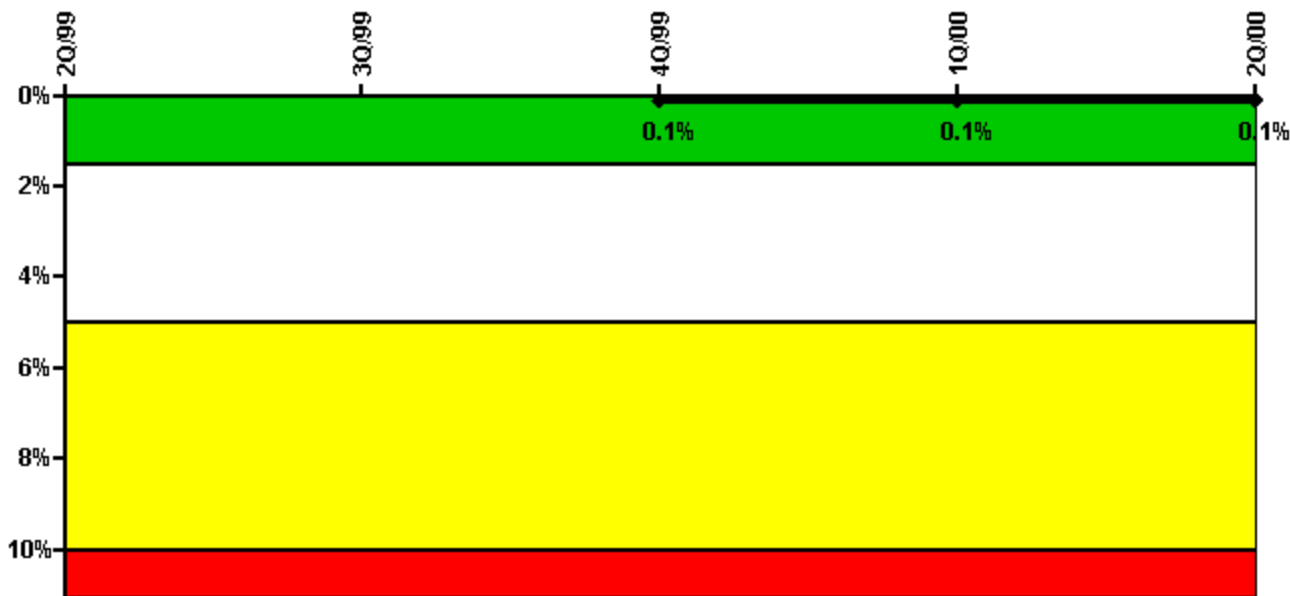
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	1.00	10.00	1.20	1.30	10.90
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	1347.70	1998.00	2209.00	2184.00	2183.00
Train 2					
Planned unavailable hours	1.75	9.75	5.10	10.20	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	1347.70	1998.00	2209.00	2184.00	2183.00
Train 3					
Planned unavailable hours	0.60	14.70	11.30	20.90	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	532.70	1998.00	2209.00	2184.00	2183.00
Indicator value			0.5%	0.6%	0.6%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

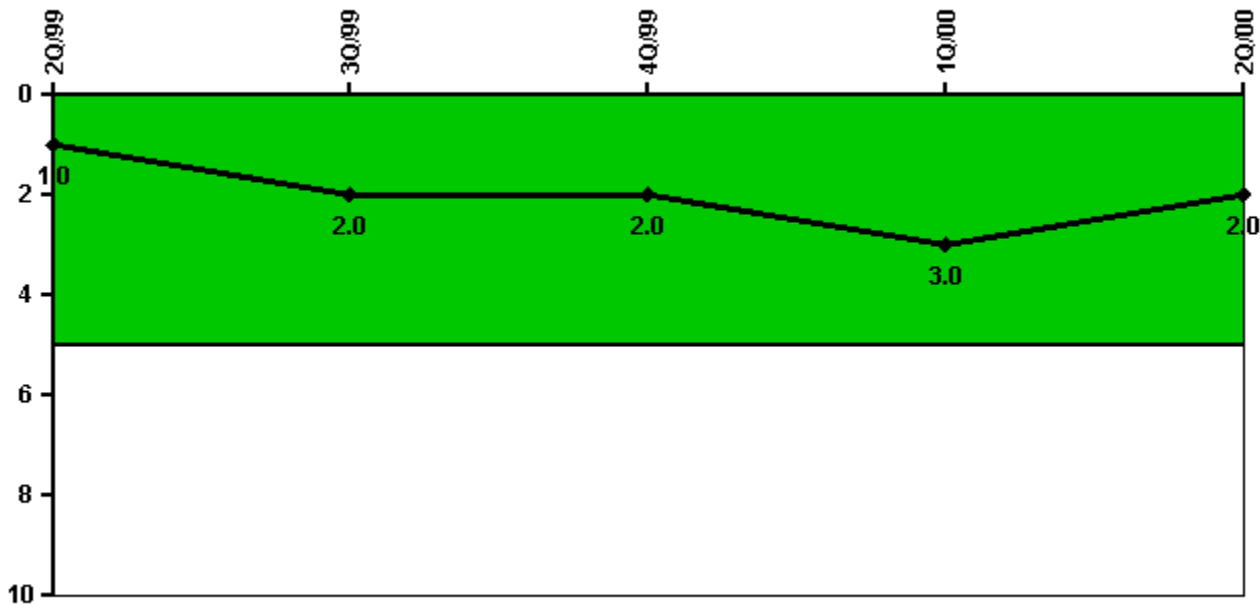


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0	0	0	0.10	0.60
Unplanned unavailable hours	0	0	0	0	1.80
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1357.00	1966.30	2209.00	2184.00	2183.00
Train 2					
Planned unavailable hours	0	0	0	8.40	1.70
Unplanned unavailable hours	0	0	0	0	1.70
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1357.00	1966.30	2209.00	2184.00	2183.00
Train 3					
Planned unavailable hours	10.40	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	2057.20	2208.00	2209.00	2184.00	2183.00
Train 4					
Planned unavailable hours	7.50	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	2057.20	2208.00	2209.00	2184.00	2183.00
Indicator value			0.1%	0.1%	0.1%

Safety System Functional Failures (PWR)



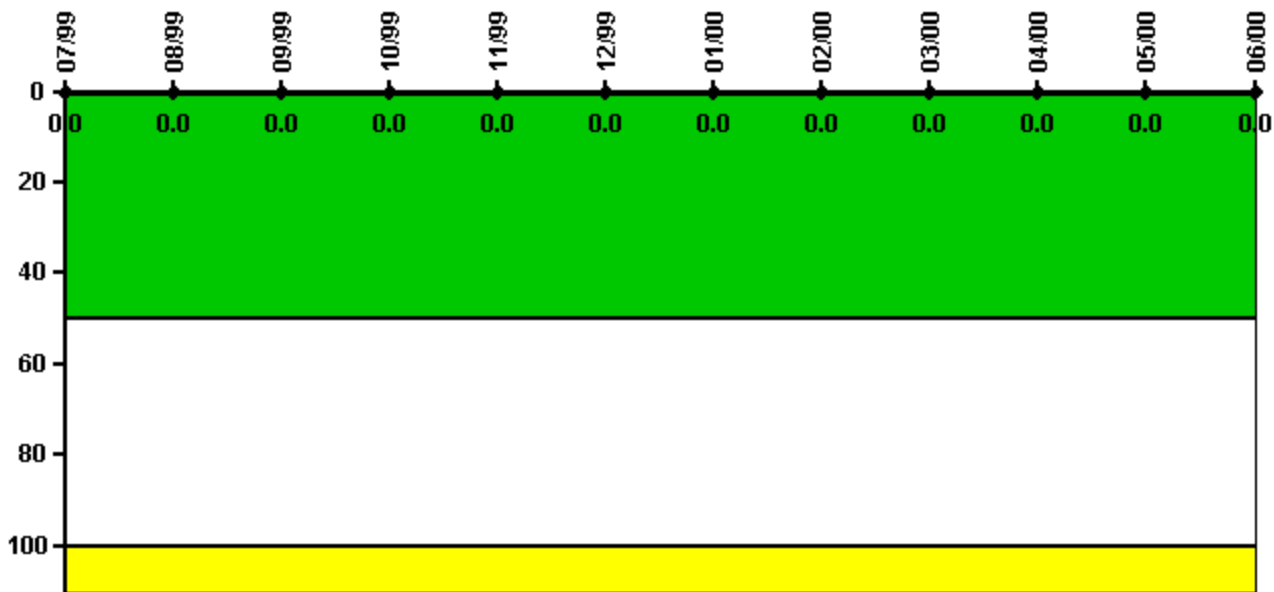
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



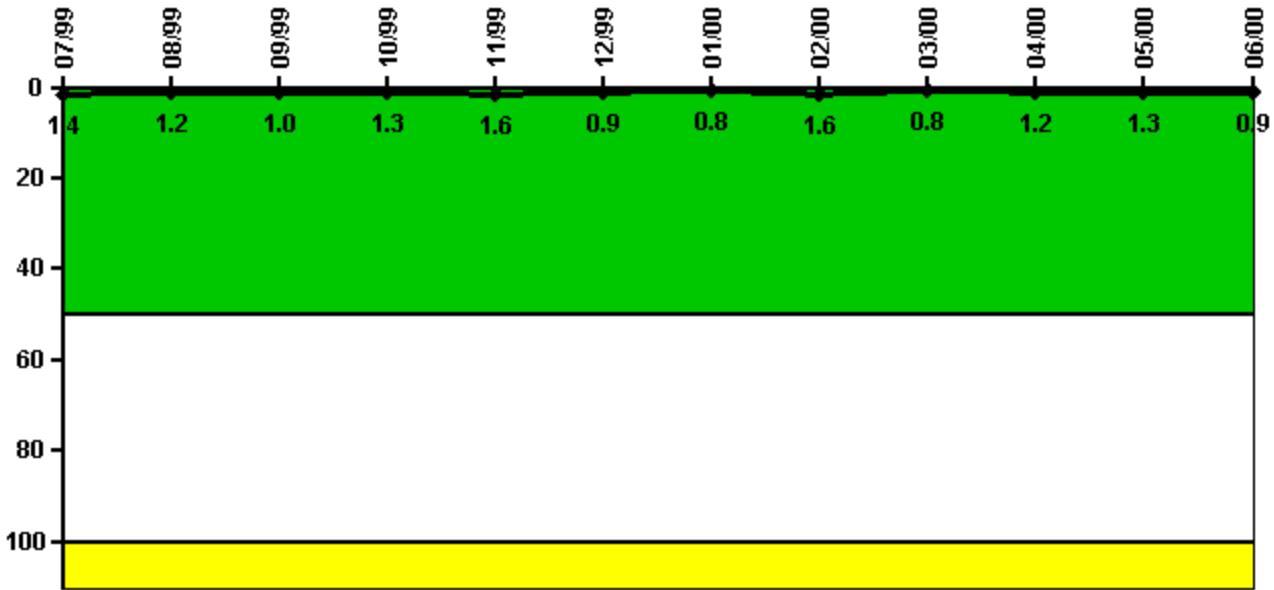
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum activity	0.000301	0.000414	0.000430	0.000486	0.000404	0.000454	0.000380	0.000410	0.000436	0.000430	0.000441	0.000475
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



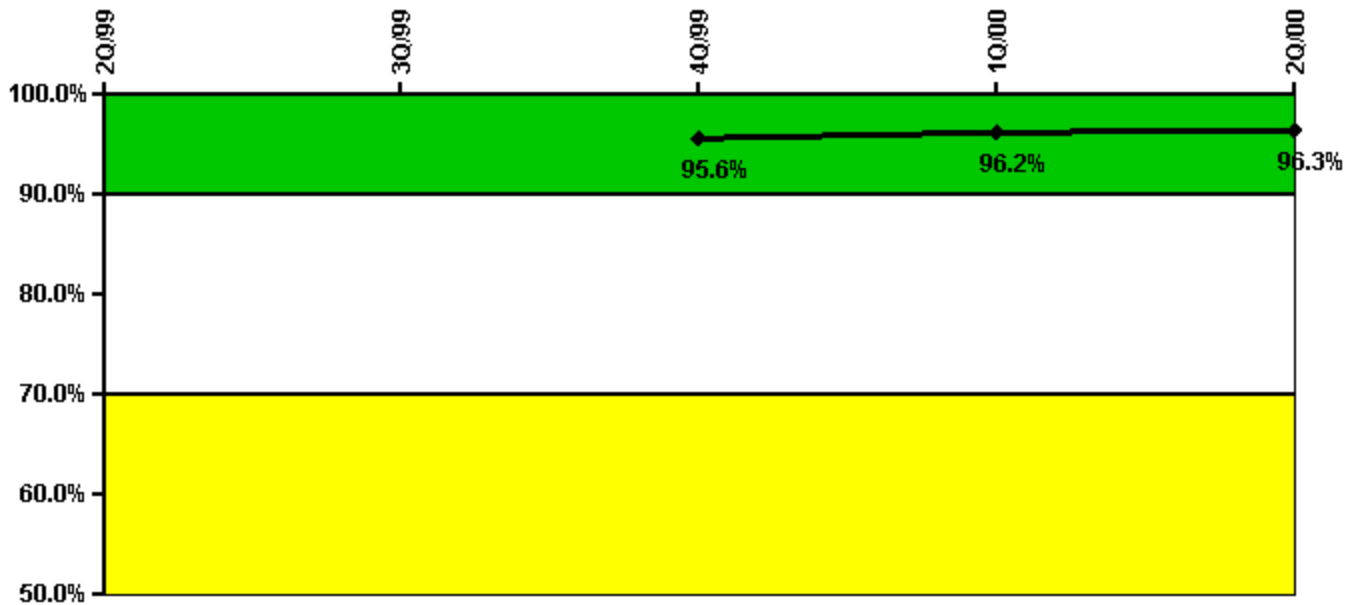
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum leakage	0.140	0.120	0.100	0.130	0.160	0.090	0.080	0.160	0.080	0.120	0.130	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.4	1.2	1.0	1.3	1.6	0.9	0.8	1.6	0.8	1.2	1.3	0.9

Licensee Comments: none

Drill/Exercise Performance



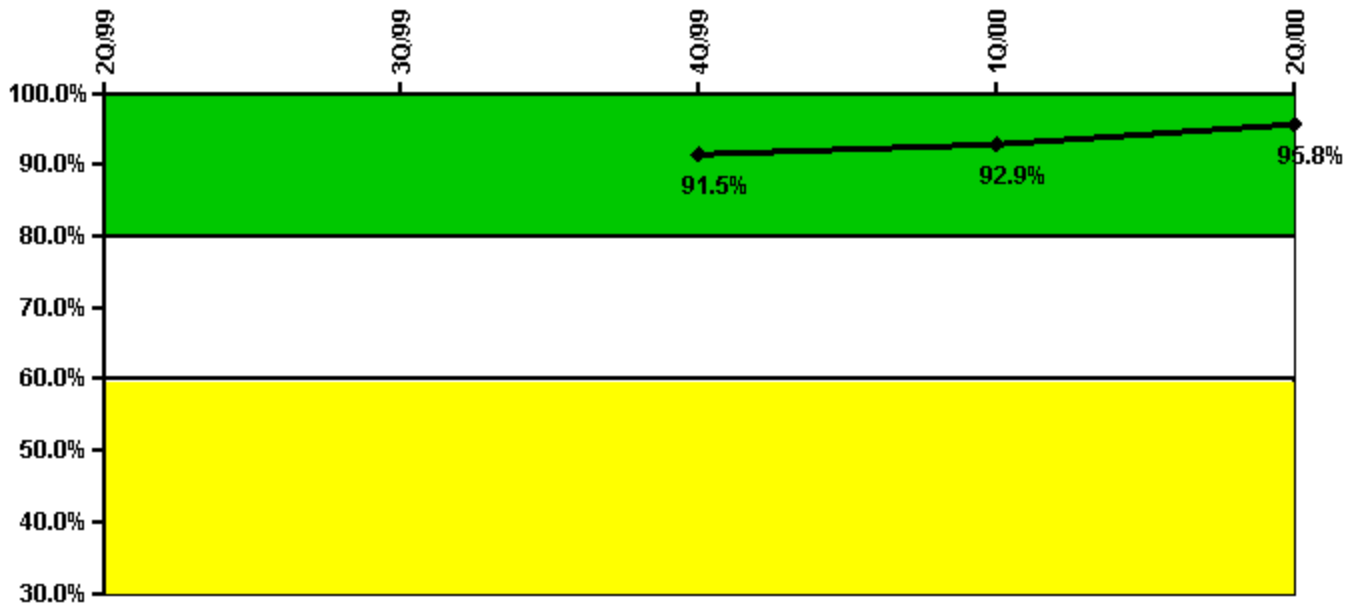
Thresholds: White < 90.0% Yellow < 70.0%

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



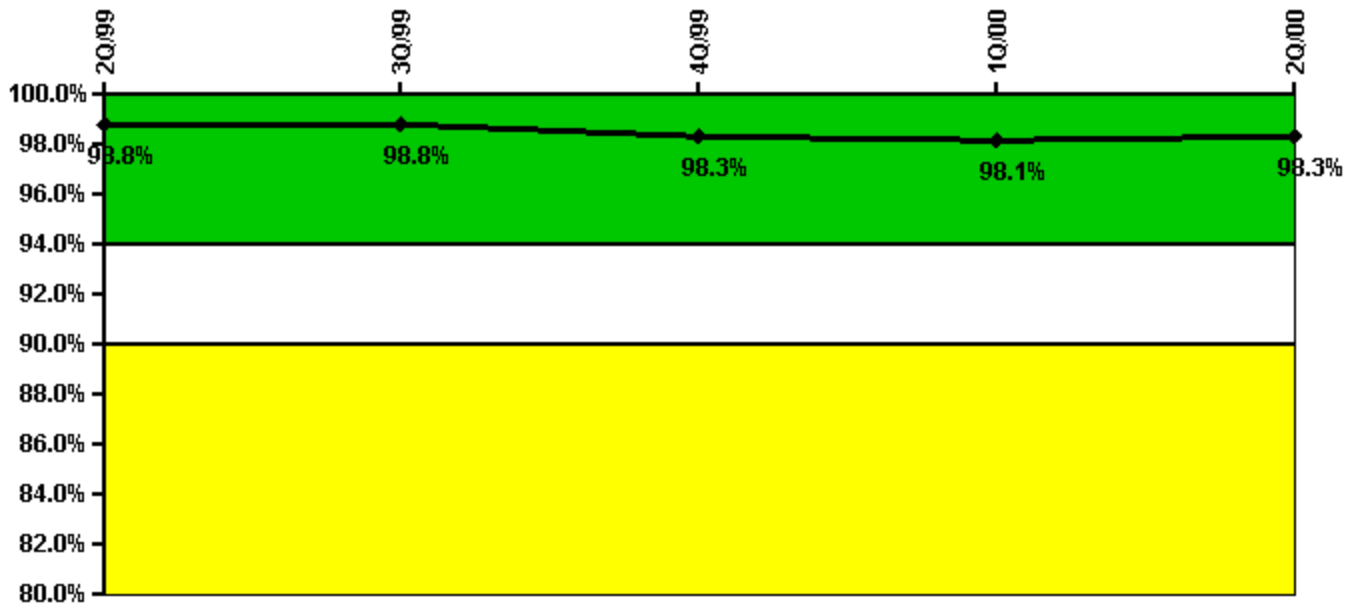
Thresholds: White < 80.0% Yellow < 60.0%

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



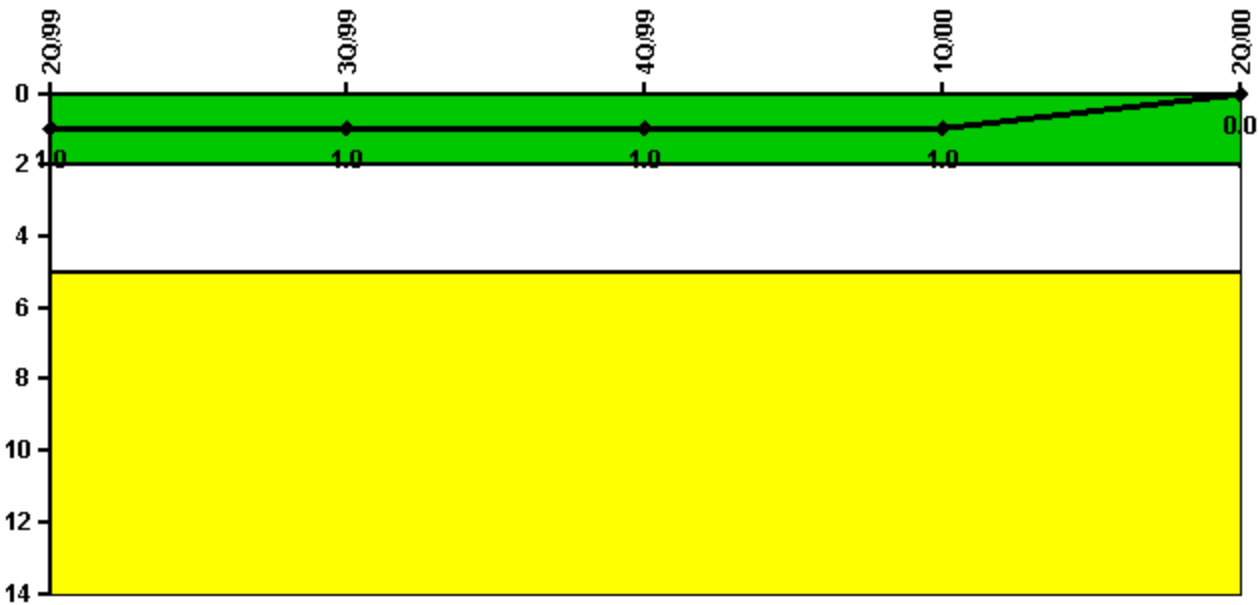
Thresholds: White < 94.0% Yellow < 90.0%

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



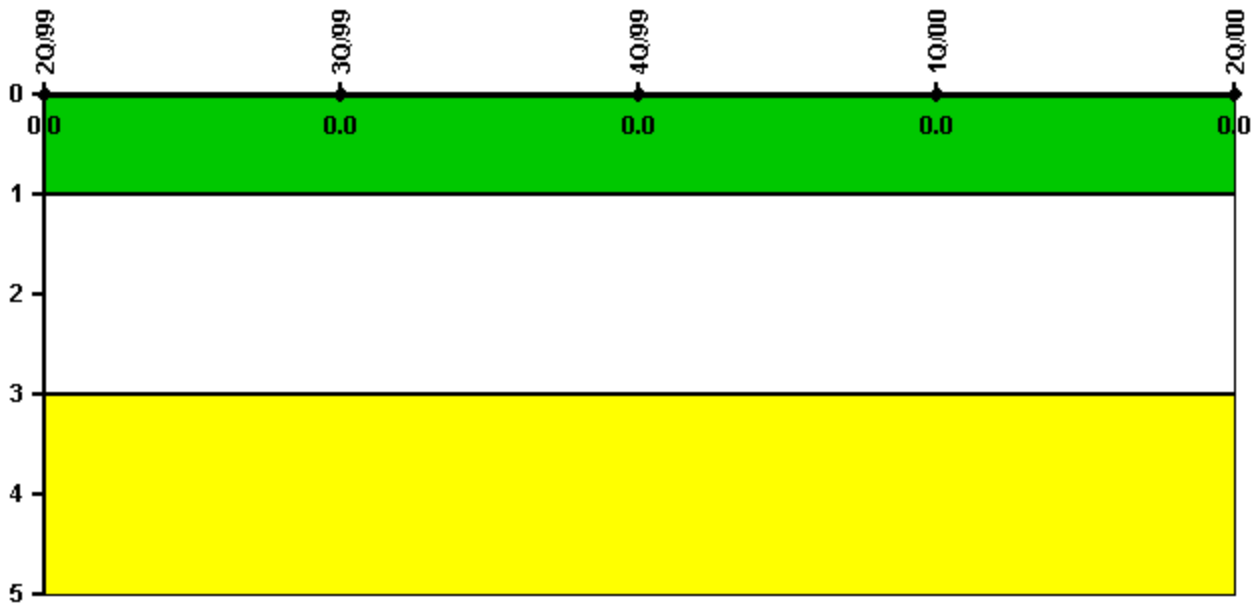
Thresholds: White > 2.0 Yellow > 5.0

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



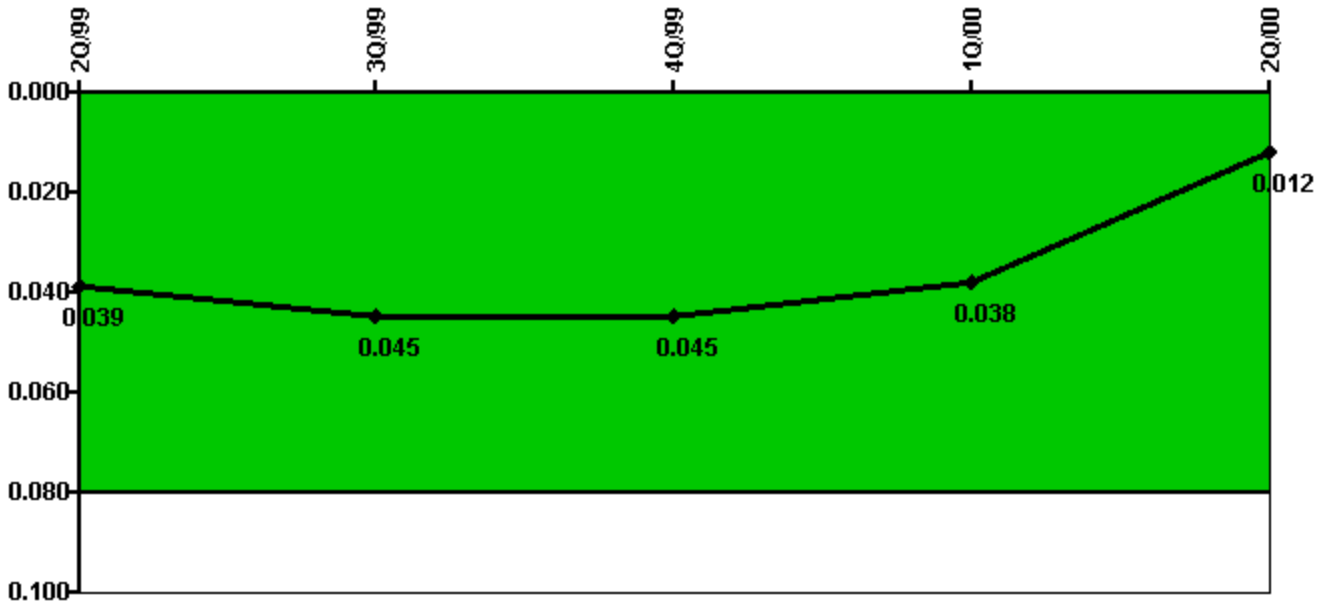
Thresholds: White > 1.0 Yellow > 3.0

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

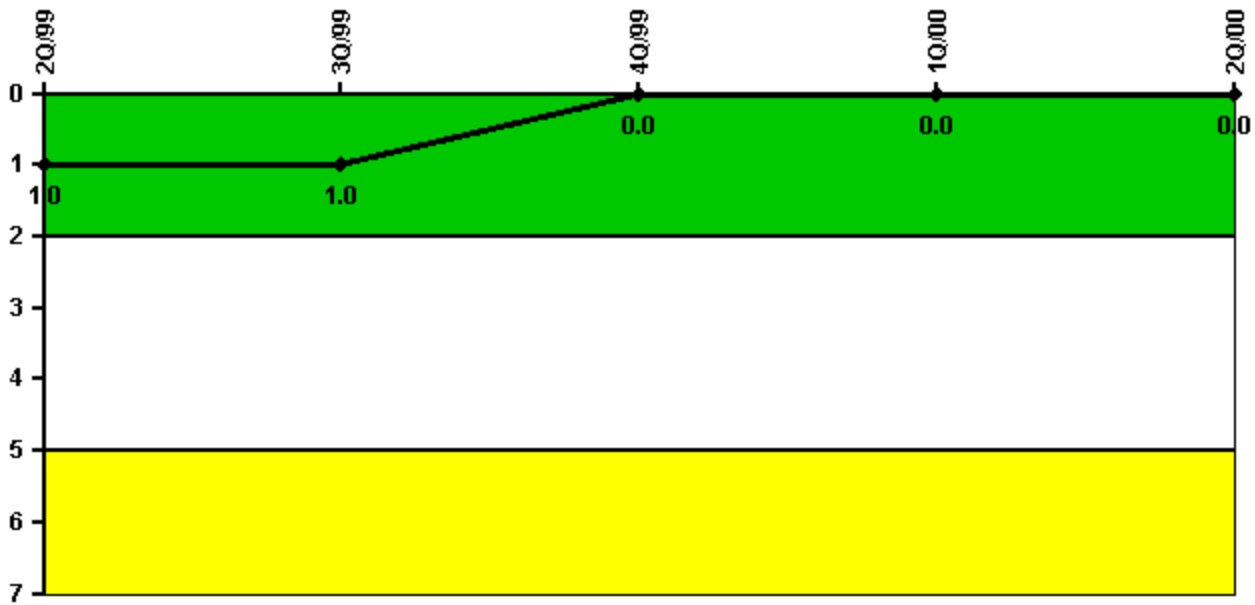
Notes

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



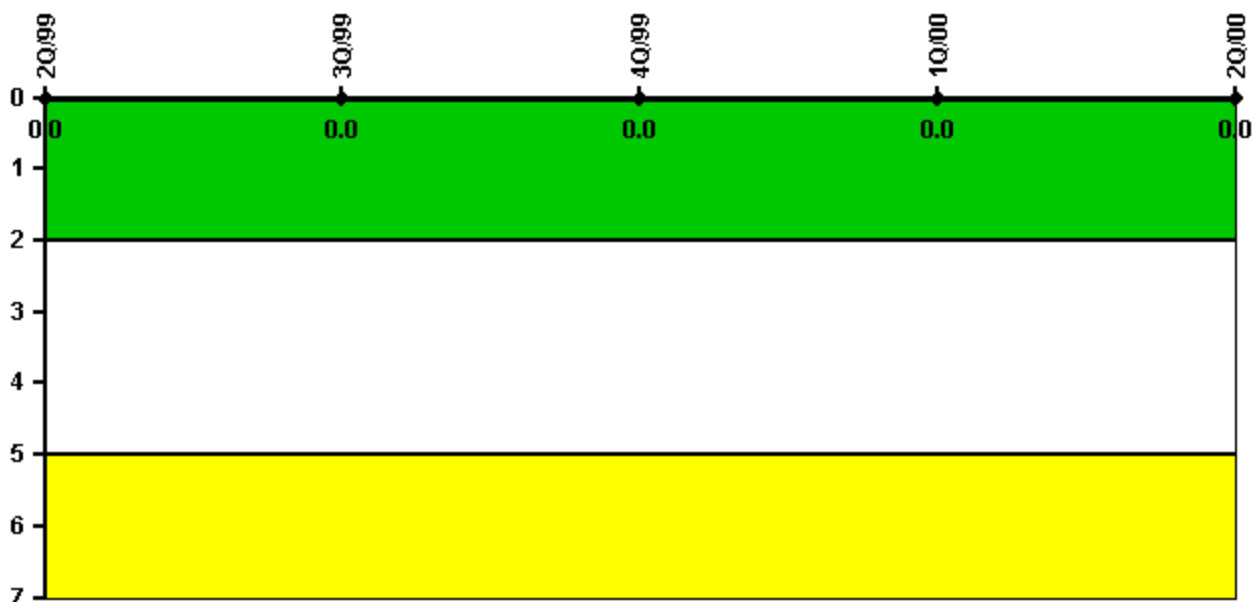
Thresholds: White > 2.0 Yellow > 5.0

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

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

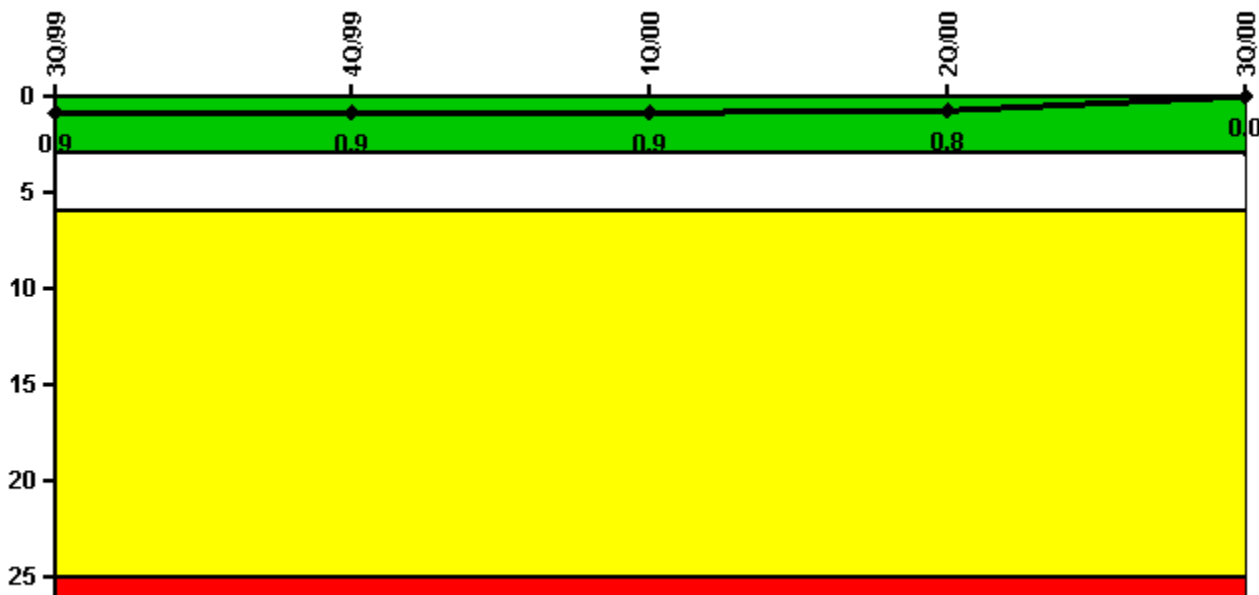
Last Modified: April 1, 2002

Surry 2

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	1.0	0	0	0	0
Critical hours	1966.3	2209.0	2184.0	2183.0	2208.0
Indicator value	0.9	0.9	0.9	0.8	0

Licensee Comments:

3Q/00: Hours of critical operation for April, 2000 was inaccurate. April's data did not compensate for Daylight Savings Time (1 hour). Second quarter data was corrected with no change in color.

Scrams with Loss of Normal Heat Removal



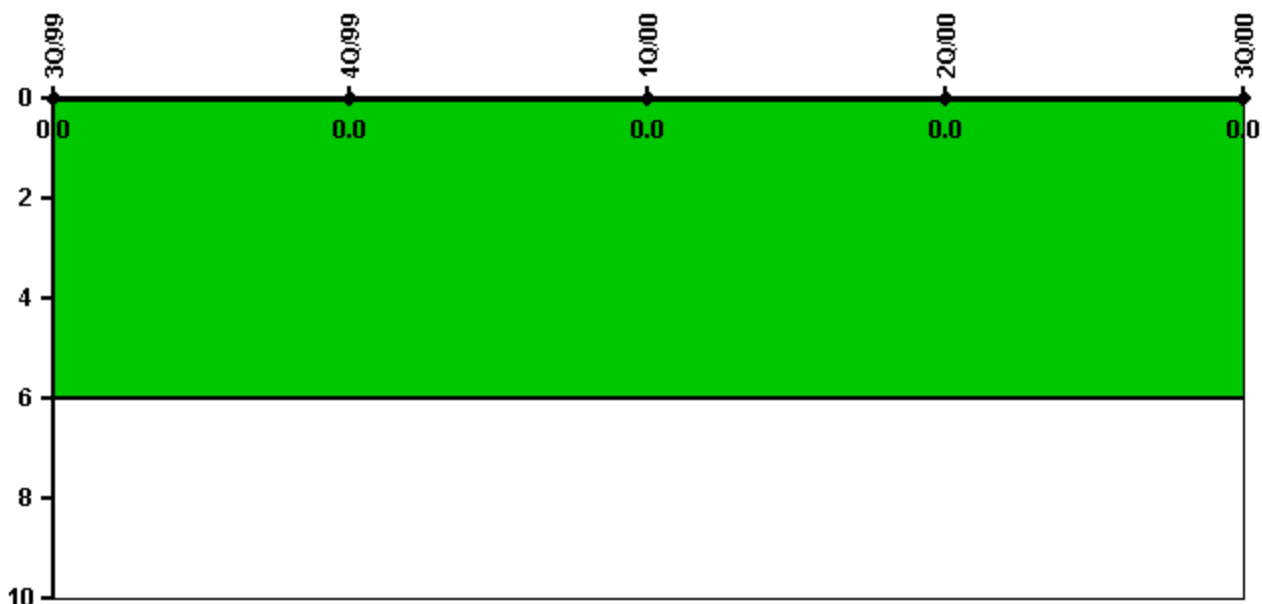
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

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

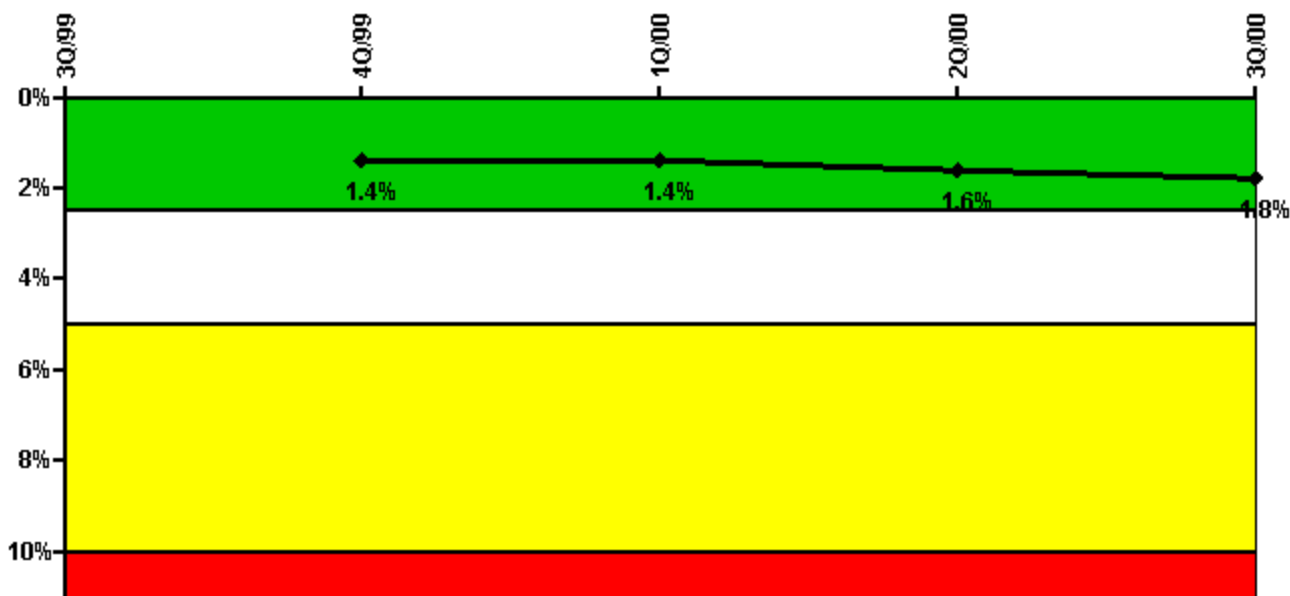
Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned power changes	0	0	0	0	0
Critical hours	1966.3	2209.0	2184.0	2183.0	2208.0
Indicator value	0	0	0	0	0

Licensee Comments:

3Q/00: Hours of critical operation for April, 2000 was inaccurate. April's data did not compensate for Daylight Savings Time (1 hour). 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%

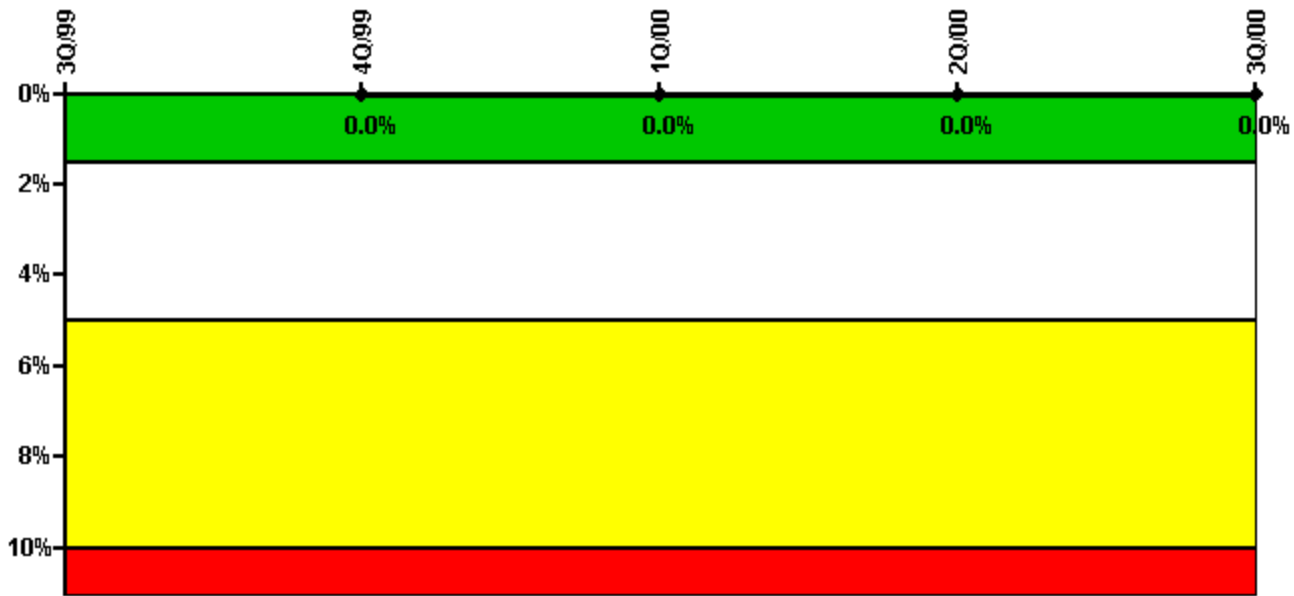
Notes

Safety System Unavailability, Emergency AC Power	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	22.15	12.15	15.00	22.60	71.39
Unplanned unavailable hours	0	0	0	0	18.94
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2					
Planned unavailable hours	15.65	41.05	25.68	41.06	33.76
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		1.4%	1.4%	1.6%	1.8%

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)



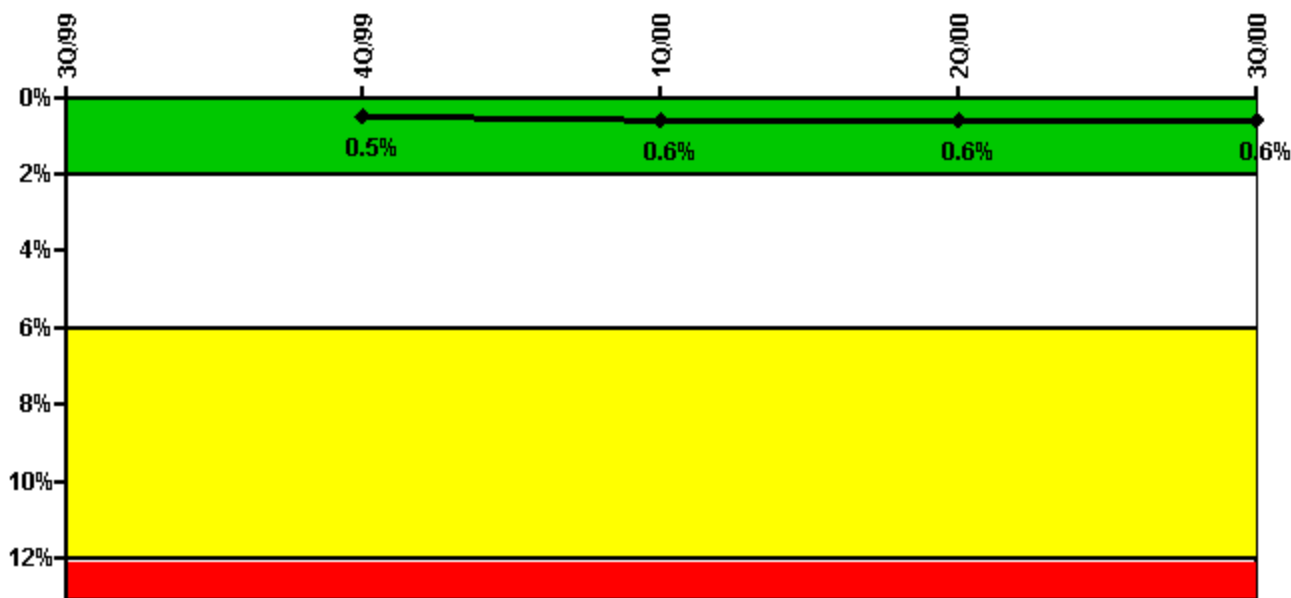
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	6.20	0	0	2.07
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	1966.30	2209.00	2184.00	2183.00	2208.00
Train 2					
Planned unavailable hours	0	0	0	0	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	1966.30	2209.00	2184.00	2183.00	2208.00
Indicator value		0%	0%	0%	0%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



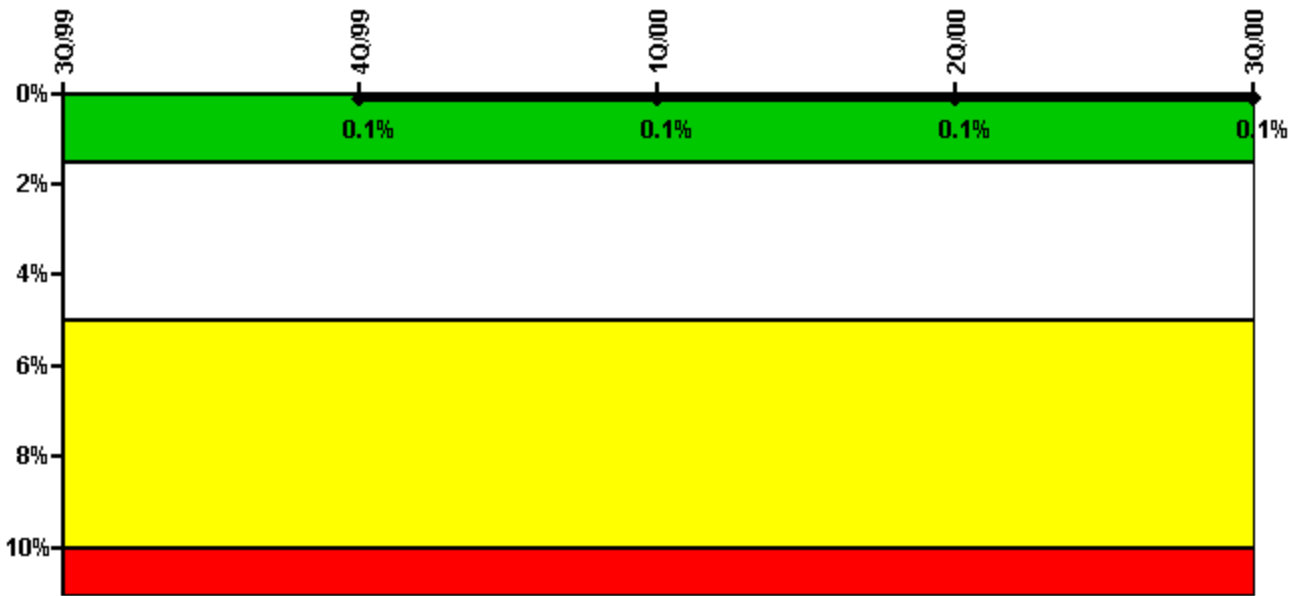
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	10.00	1.20	1.30	10.90	0.85
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	1998.00	2209.00	2184.00	2183.00	2208.00
Train 2					
Planned unavailable hours	9.75	5.10	10.20	11.30	1.48
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	1998.00	2209.00	2184.00	2183.00	2208.00
Train 3					
Planned unavailable hours	14.70	11.30	20.90	1.50	5.48
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	1998.00	2209.00	2184.00	2183.00	2208.00
Indicator value		0.5%	0.6%	0.6%	0.6%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



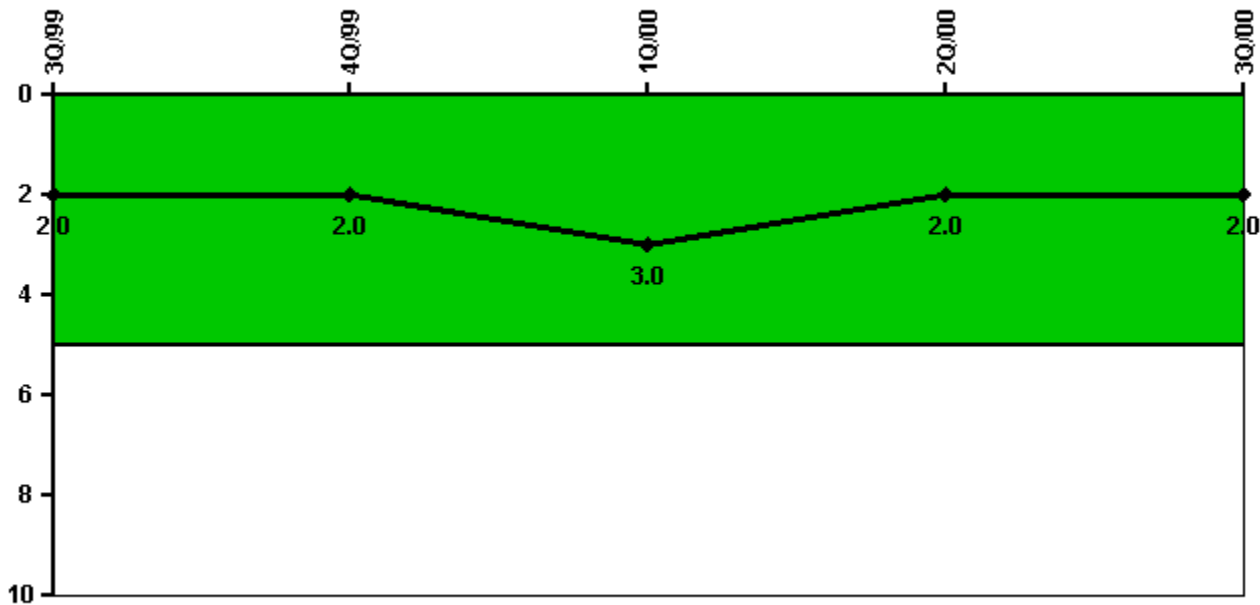
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	0	0	0.10	0.60	0.05
Unplanned unavailable hours	0	0	0	1.80	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1966.30	2209.00	2184.00	2183.00	2208.00
Train 2					
Planned unavailable hours	0	0	8.40	1.70	0.44
Unplanned unavailable hours	0	0	0	1.70	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1966.30	2209.00	2184.00	2183.00	2208.00
Train 3					
Planned unavailable hours	0	0	0	0	9.68
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 4					
Planned unavailable hours	0	0	0	0	9.60
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value		0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

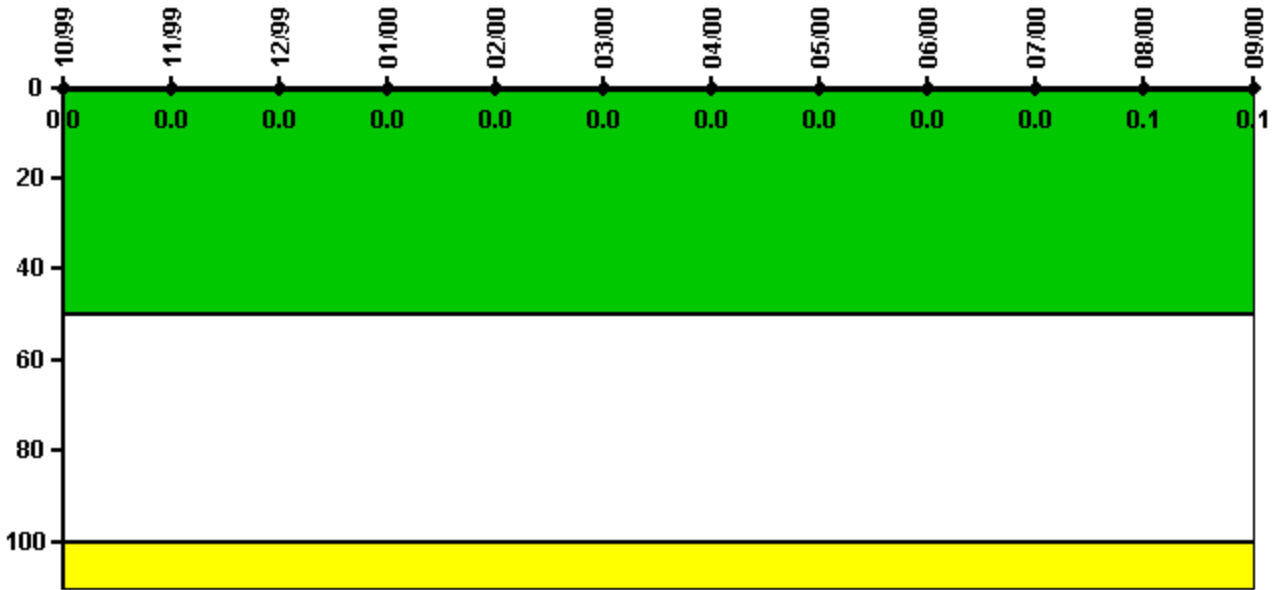
Notes

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

Licensee Comments:

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

Reactor Coolant System Activity



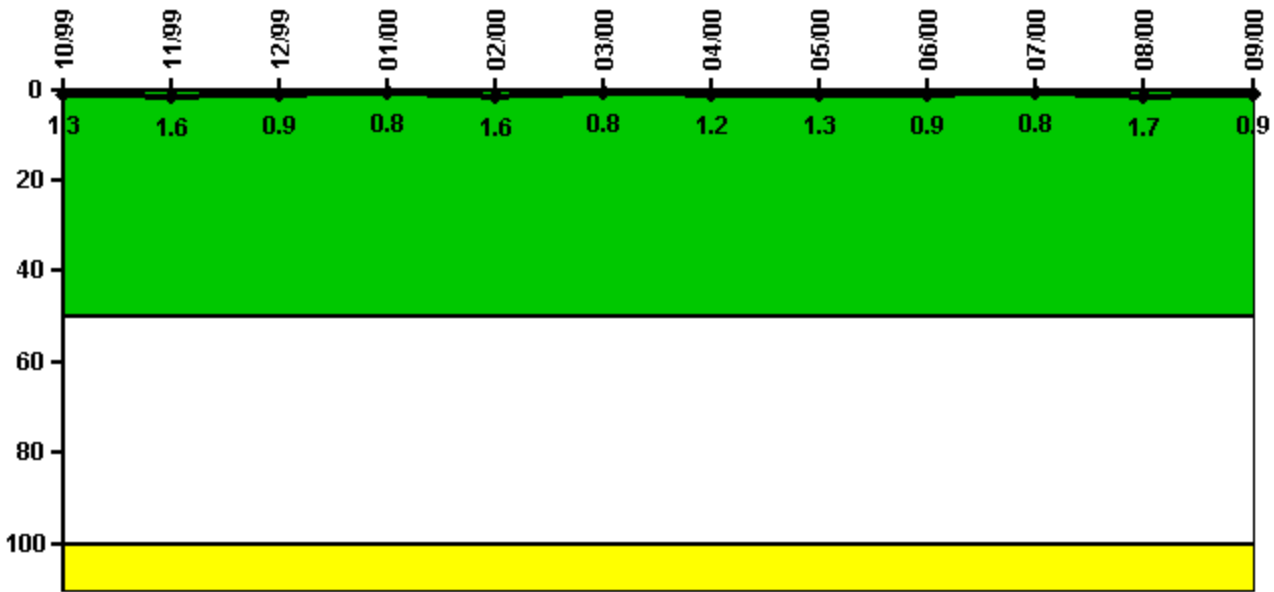
Thresholds: White > 50.0 Yellow > 100.0

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	0.000486	0.000404	0.000454	0.000380	0.000410	0.000436	0.000430	0.000441	0.000475	0.000453	0.000738	0.000552
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



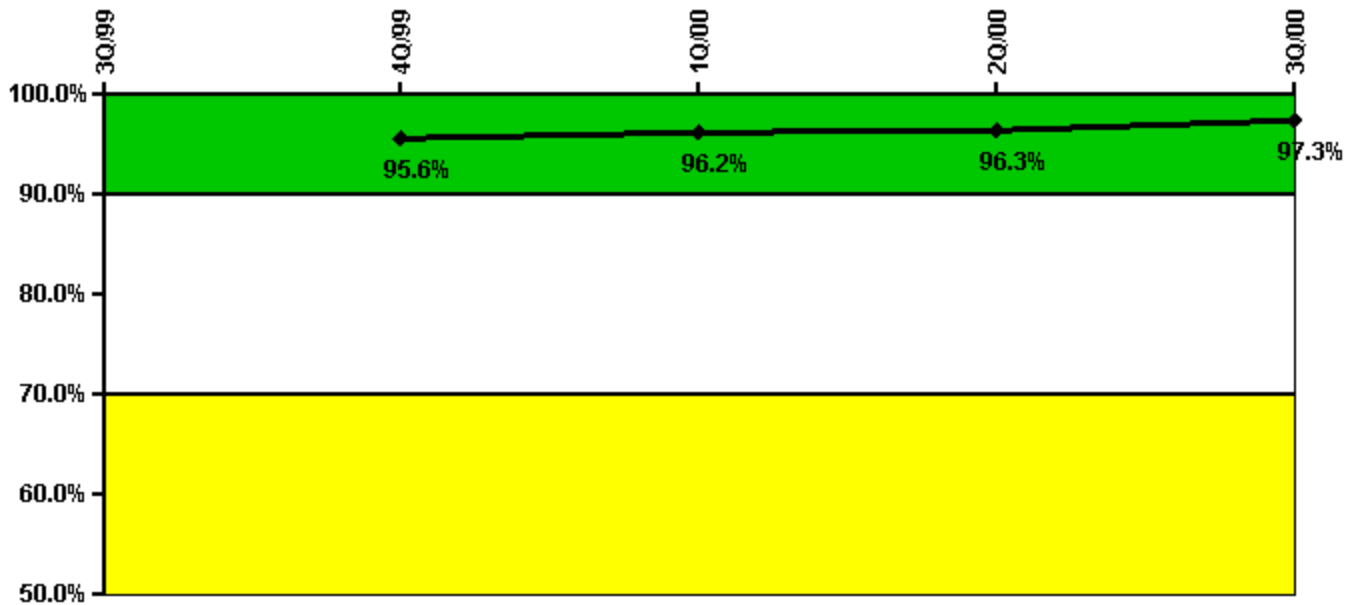
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.130	0.160	0.090	0.080	0.160	0.080	0.120	0.130	0.090	0.080	0.170	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.6	0.9	0.8	1.6	0.8	1.2	1.3	0.9	0.8	1.7	0.9

Licensee Comments: none

Drill/Exercise Performance



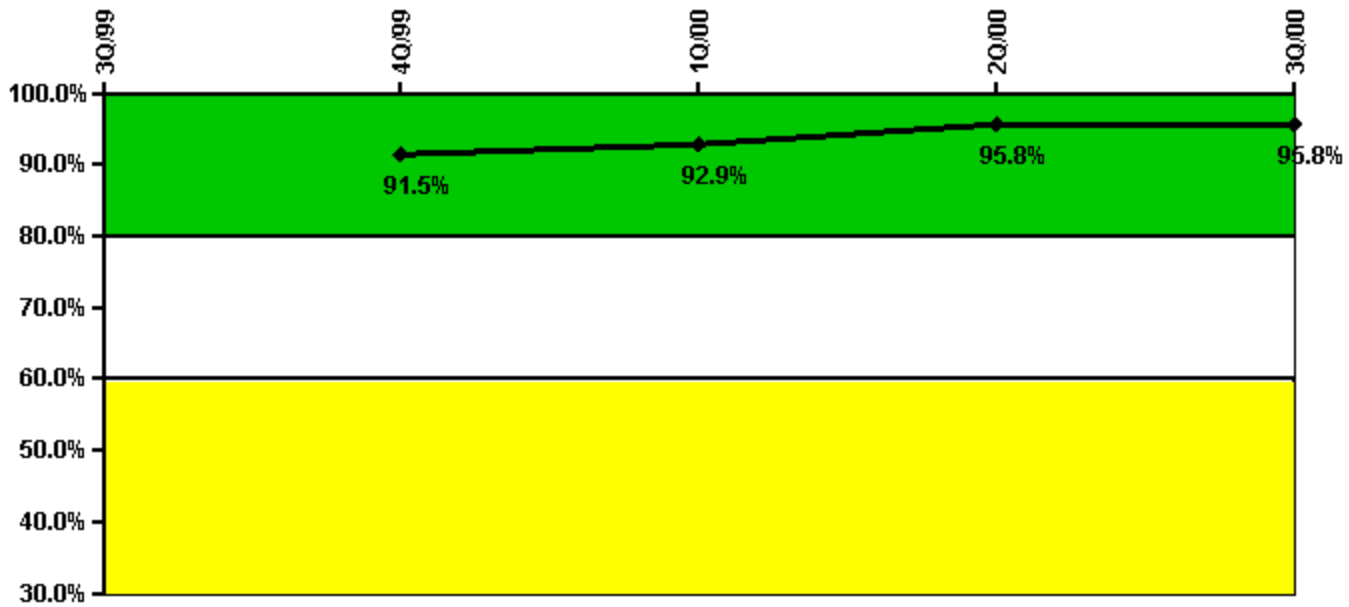
Thresholds: White < 90.0% Yellow < 70.0%

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



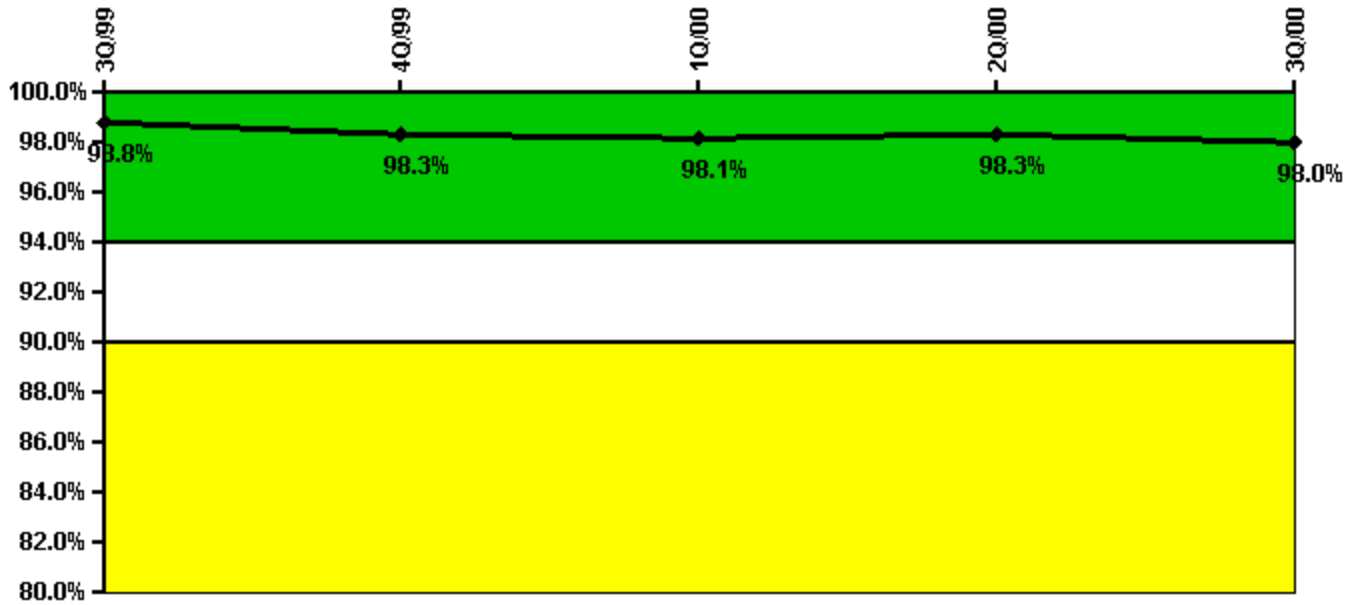
Thresholds: White < 80.0% Yellow < 60.0%

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



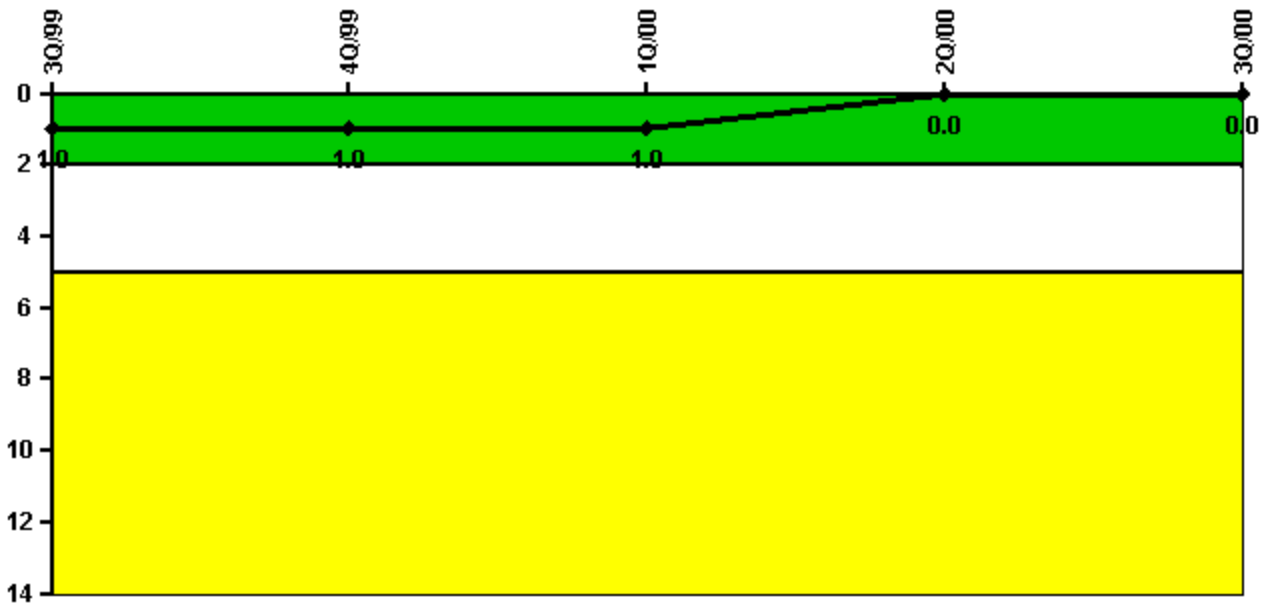
Thresholds: White < 94.0% Yellow < 90.0%

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



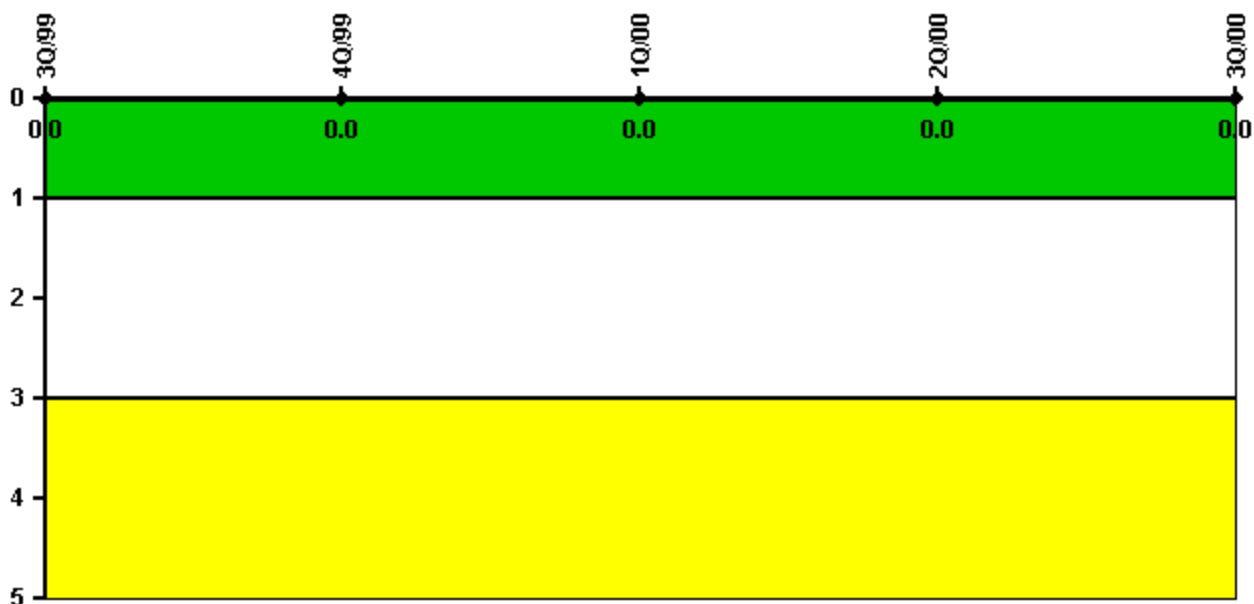
Thresholds: White > 2.0 Yellow > 5.0

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



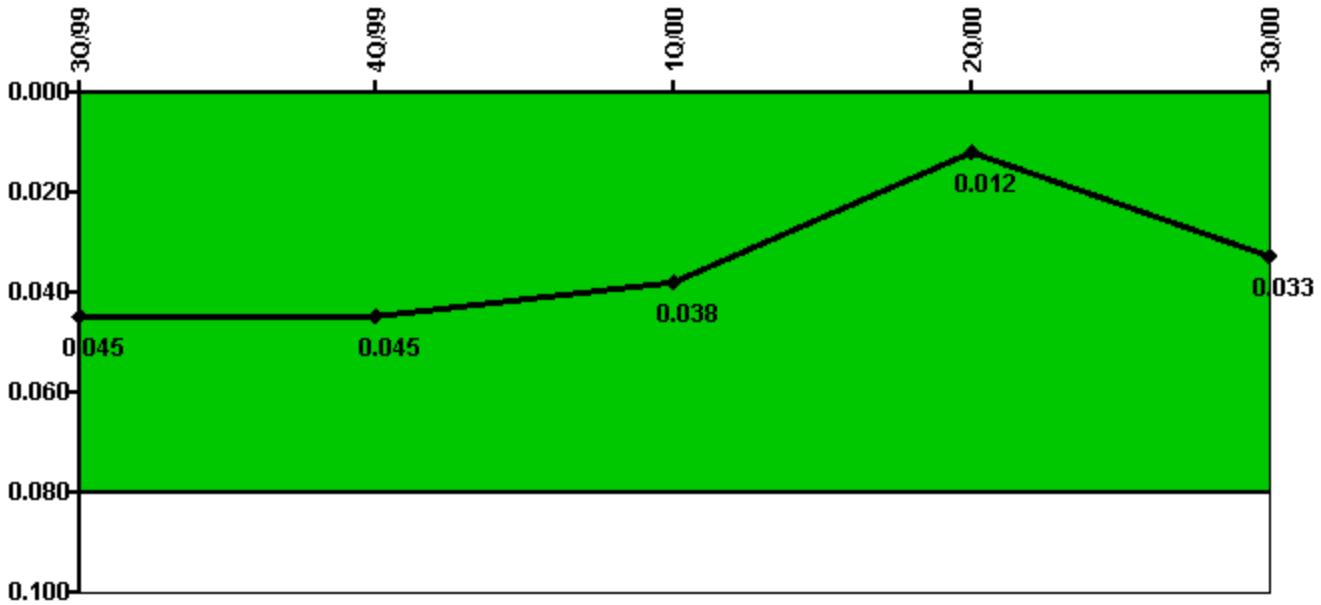
Thresholds: White > 1.0 Yellow > 3.0

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

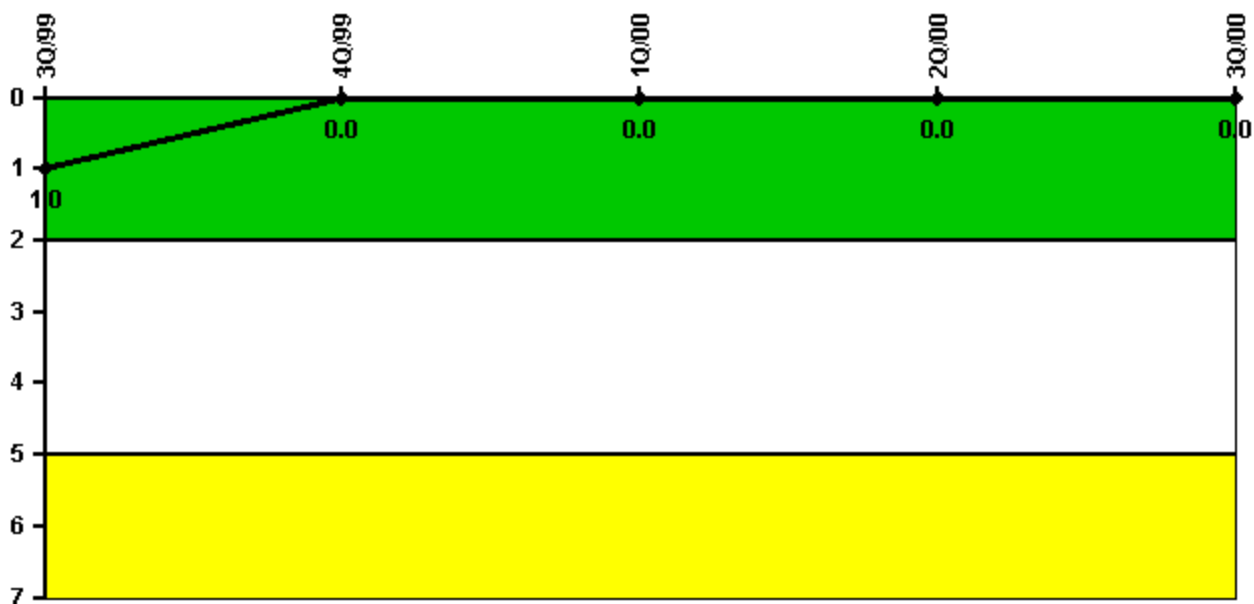
Notes

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



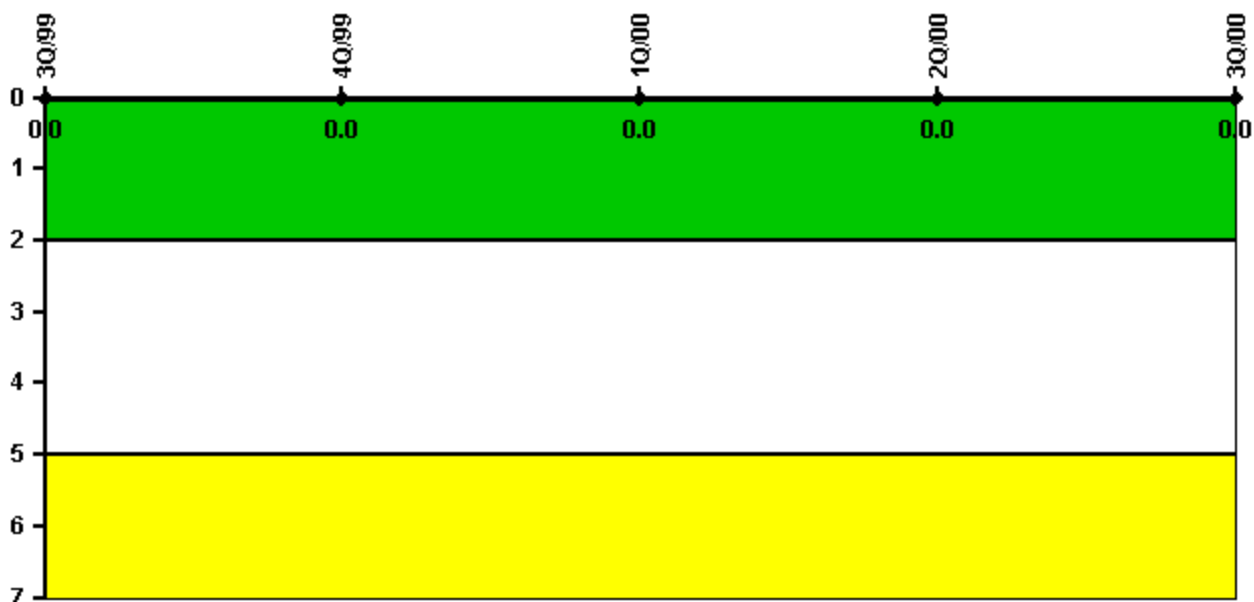
Thresholds: White > 2.0 Yellow > 5.0

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](#)

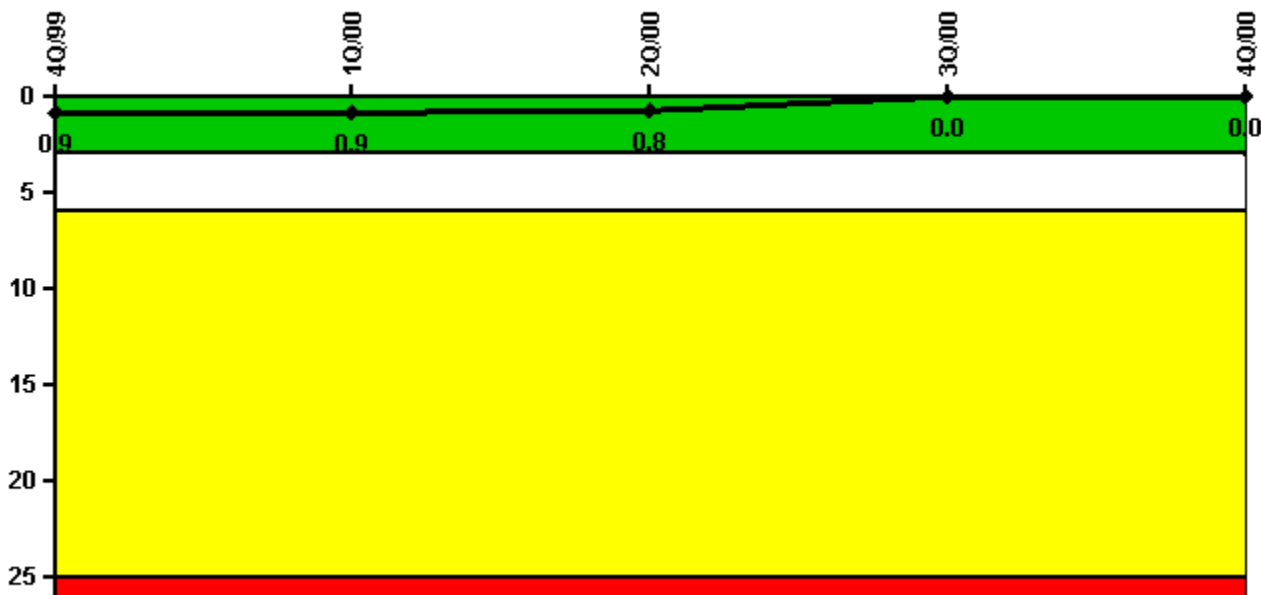
Last Modified: March 29, 2002

Surry 2

4Q/2000 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



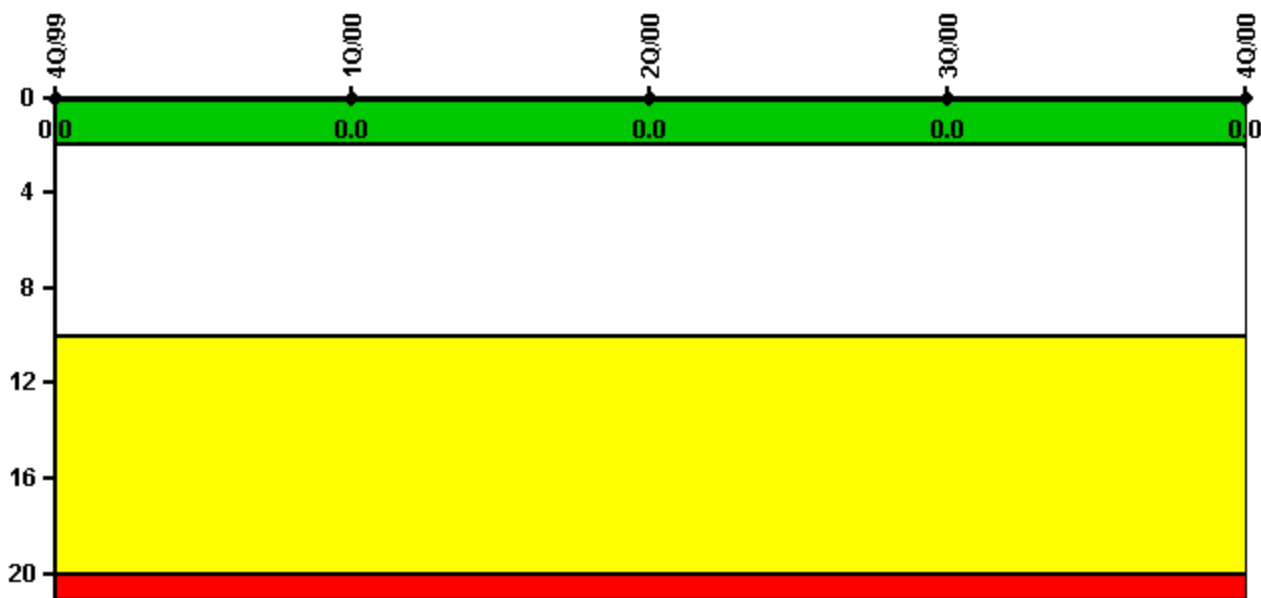
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned scrams	0	0	0	0	0
Critical hours	2209.0	2184.0	2183.0	2208.0	1484.7
Indicator value	0.9	0.9	0.8	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



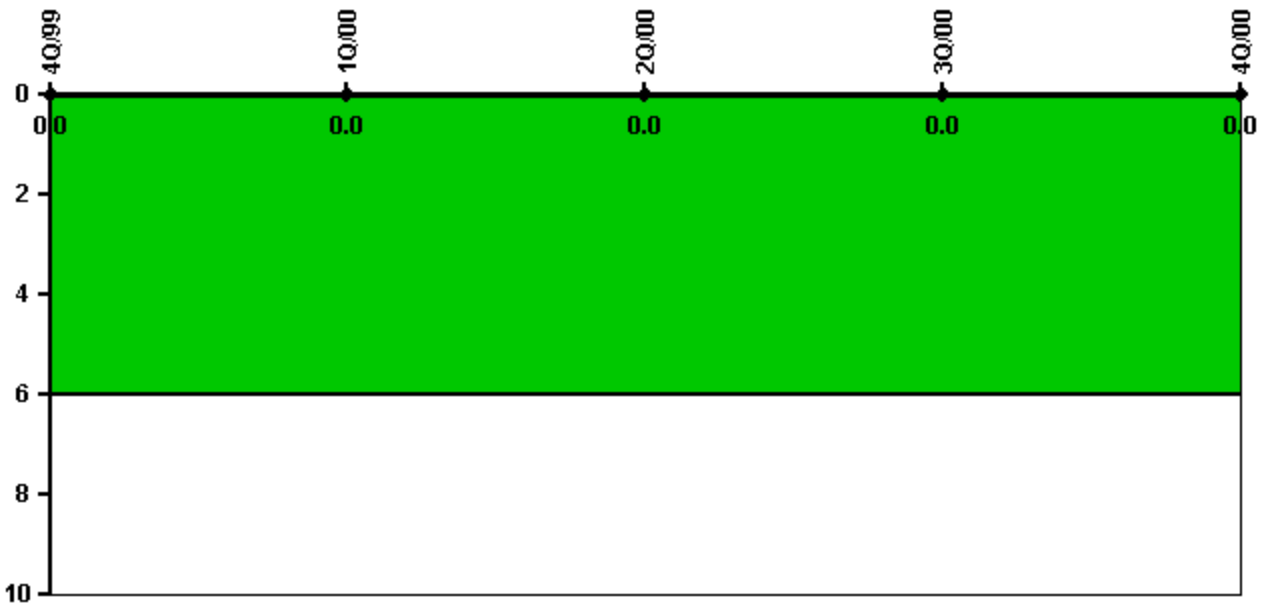
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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



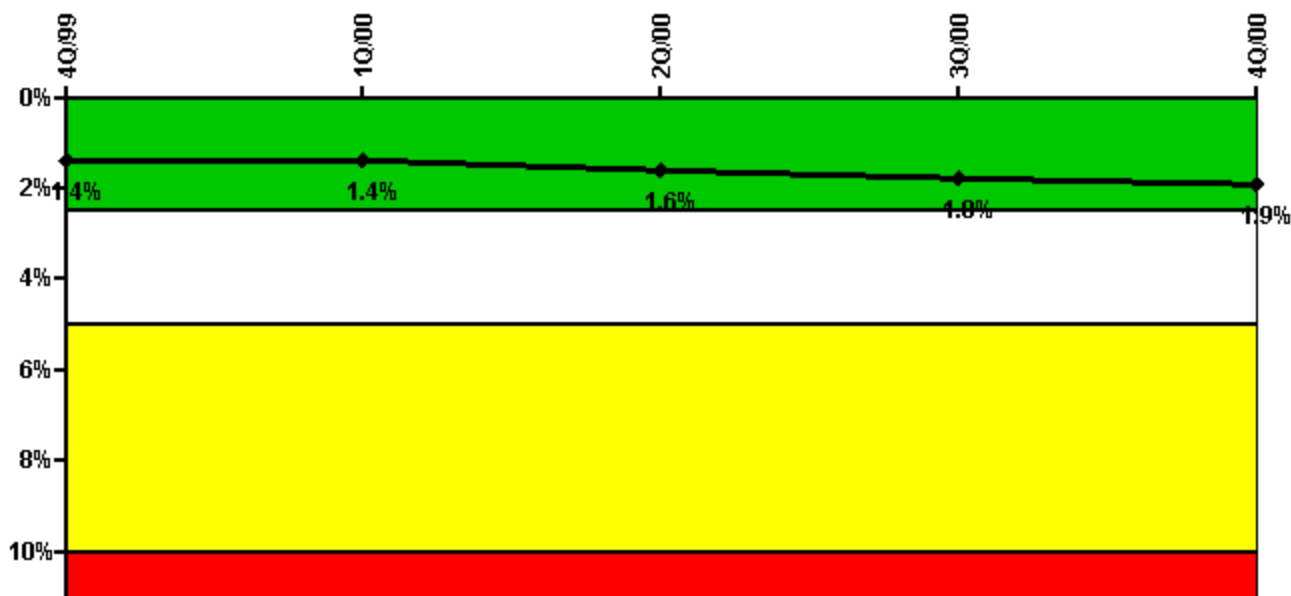
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned power changes	0	0	0	0	0
Critical hours	2209.0	2184.0	2183.0	2208.0	1484.7
Indicator value	0	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

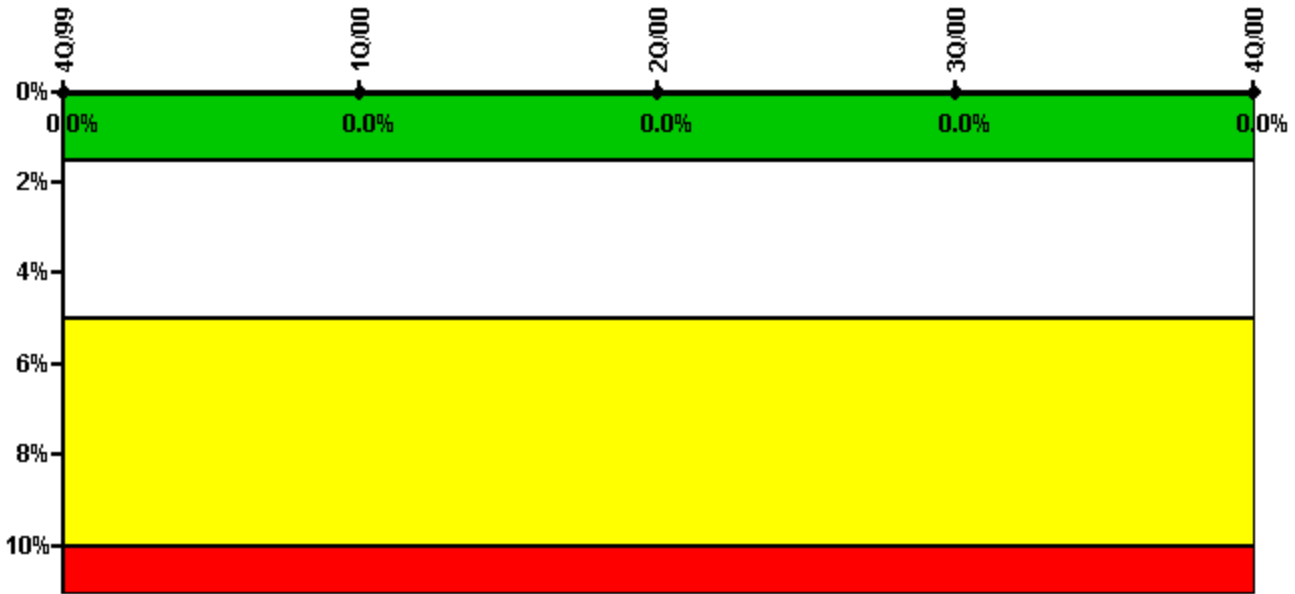
Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	12.15	15.00	22.60	71.39	15.07
Unplanned unavailable hours	0	0	0	18.94	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2013.20
Train 2					
Planned unavailable hours	41.05	25.68	41.06	33.76	19.60
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	2013.20
Indicator value	1.4%	1.4%	1.6%	1.8%	1.9%

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)



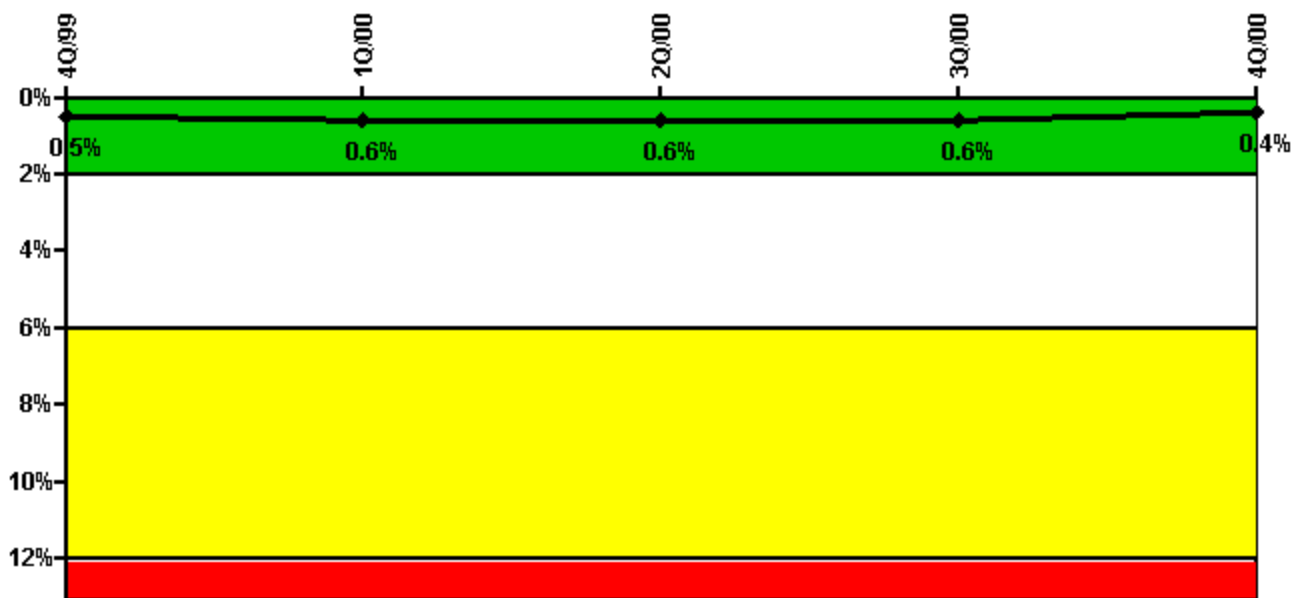
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	6.20	0	0	2.07	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	2183.00	2208.00	1557.80
Train 2					
Planned unavailable hours	0	0	0	0.92	3.00
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	2183.00	2208.00	1557.80
Indicator value	0%	0%	0%	0%	0%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	1.20	1.30	10.90	0.85	9.90
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	2209.00	2184.00	2183.00	2208.00	1557.80
Train 2					
Planned unavailable hours	5.10	10.20	11.30	1.48	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	2183.00	2208.00	1557.80
Train 3					
Planned unavailable hours	11.30	20.90	1.50	5.48	2.30
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	2209.00	2184.00	2183.00	2208.00	1557.80
Indicator value	0.5%	0.6%	0.6%	0.6%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

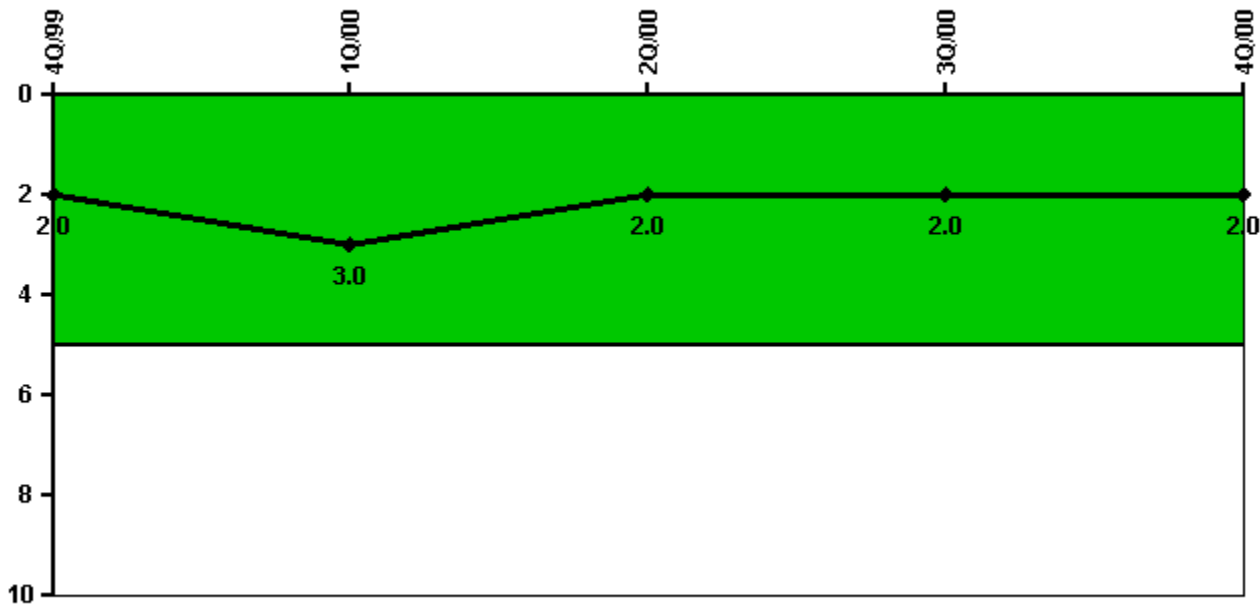


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	0	0.10	0.60	0.05	0
Unplanned unavailable hours	0	0	1.80	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1557.80
Train 2					
Planned unavailable hours	0	8.40	1.70	0.44	0
Unplanned unavailable hours	0	0	1.70	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1557.80
Train 3					
Planned unavailable hours	0	0	0	9.68	1.65
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2013.20
Train 4					
Planned unavailable hours	0	0	0	9.60	0.06
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2013.20
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%

Safety System Functional Failures (PWR)



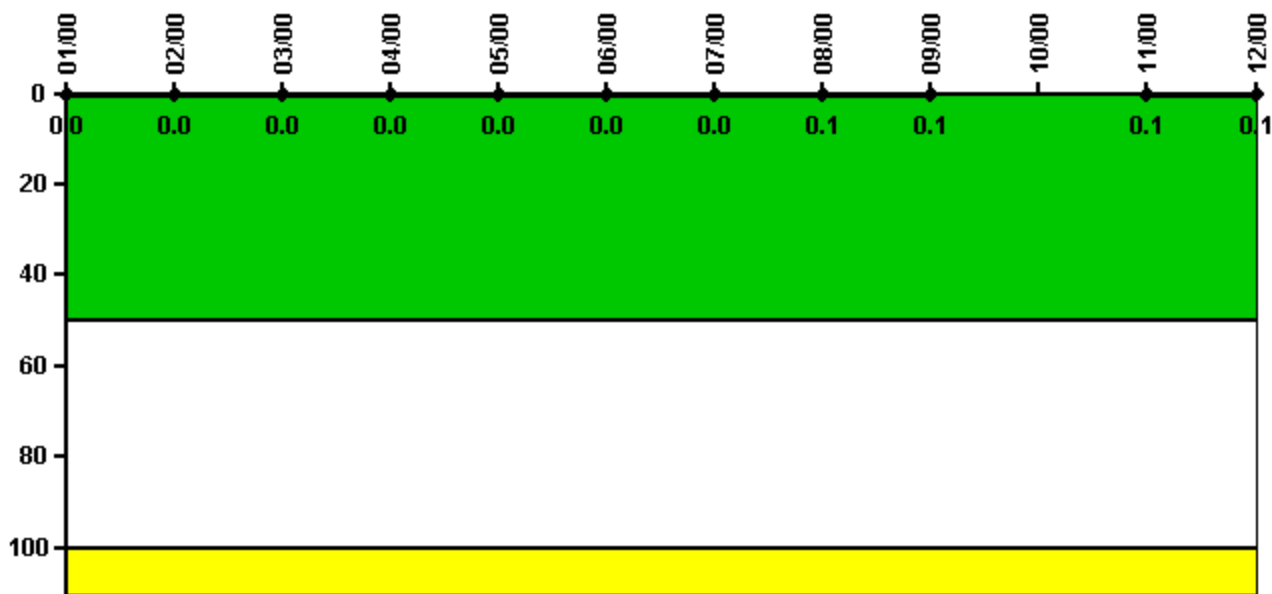
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



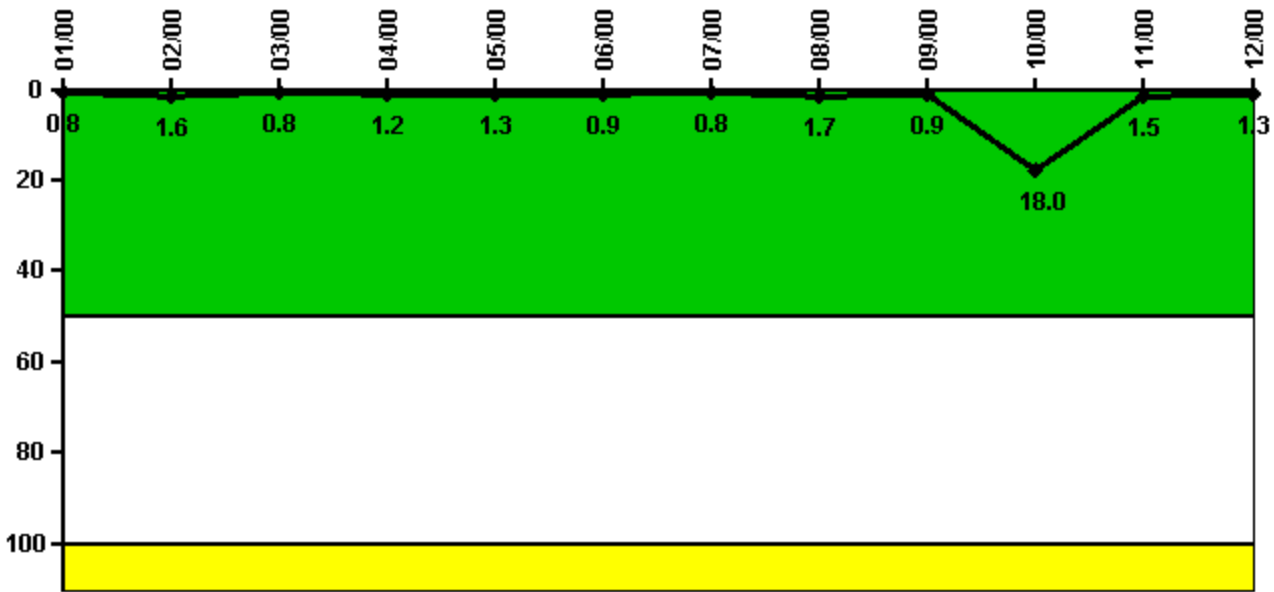
Thresholds: White > 50.0 Yellow > 100.0

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	0.000380	0.000410	0.000436	0.000430	0.000441	0.000475	0.000453	0.000738	0.000552	N/A	0.000842	0.000834
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0.1	0.1	N/A	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



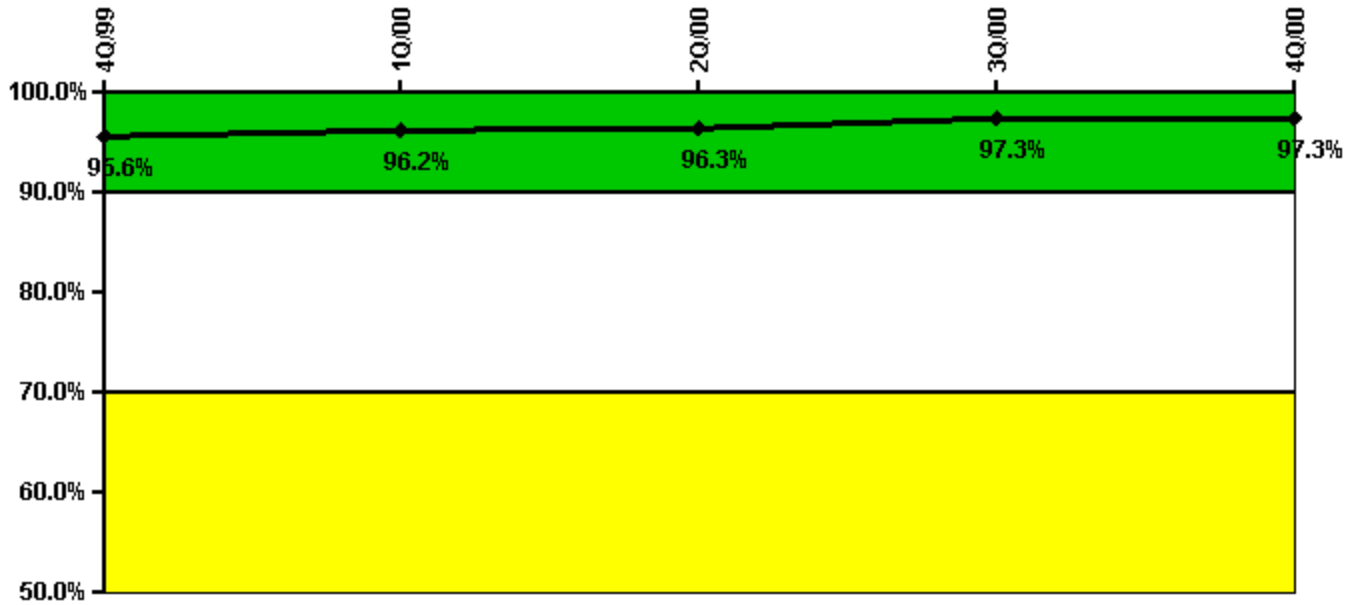
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage	0.080	0.160	0.080	0.120	0.130	0.090	0.080	0.170	0.090	1.800	0.150	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	0.8	1.6	0.8	1.2	1.3	0.9	0.8	1.7	0.9	18.0	1.5	1.3

Licensee Comments: none

Drill/Exercise Performance



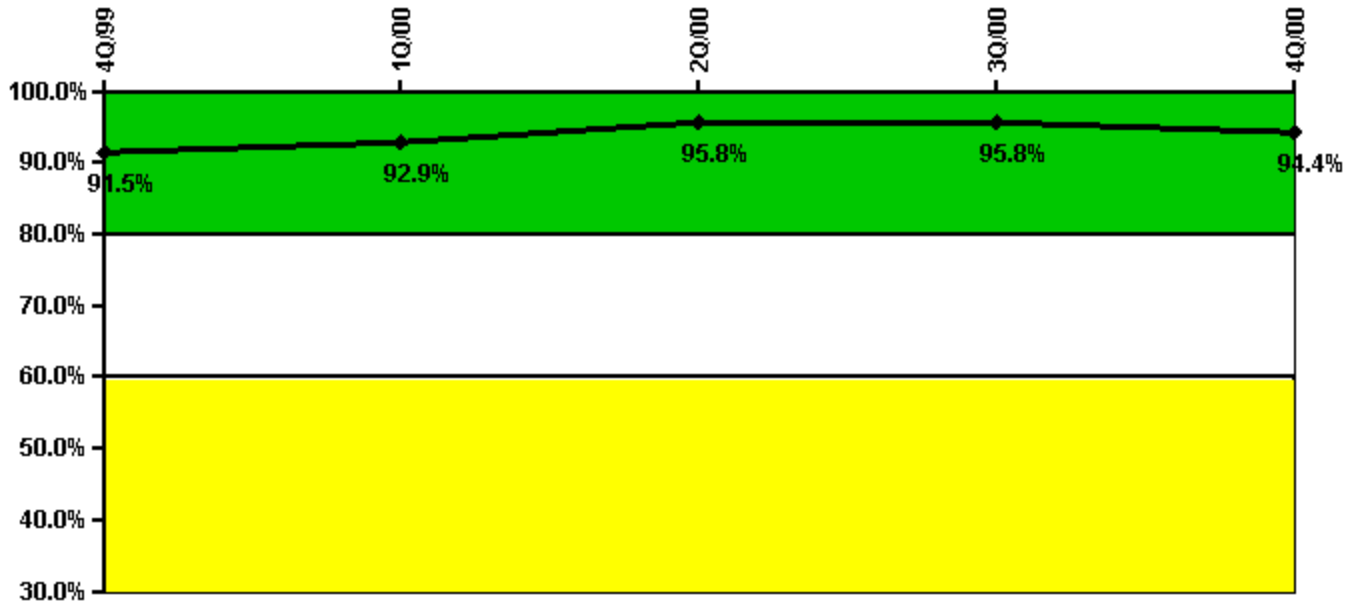
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
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



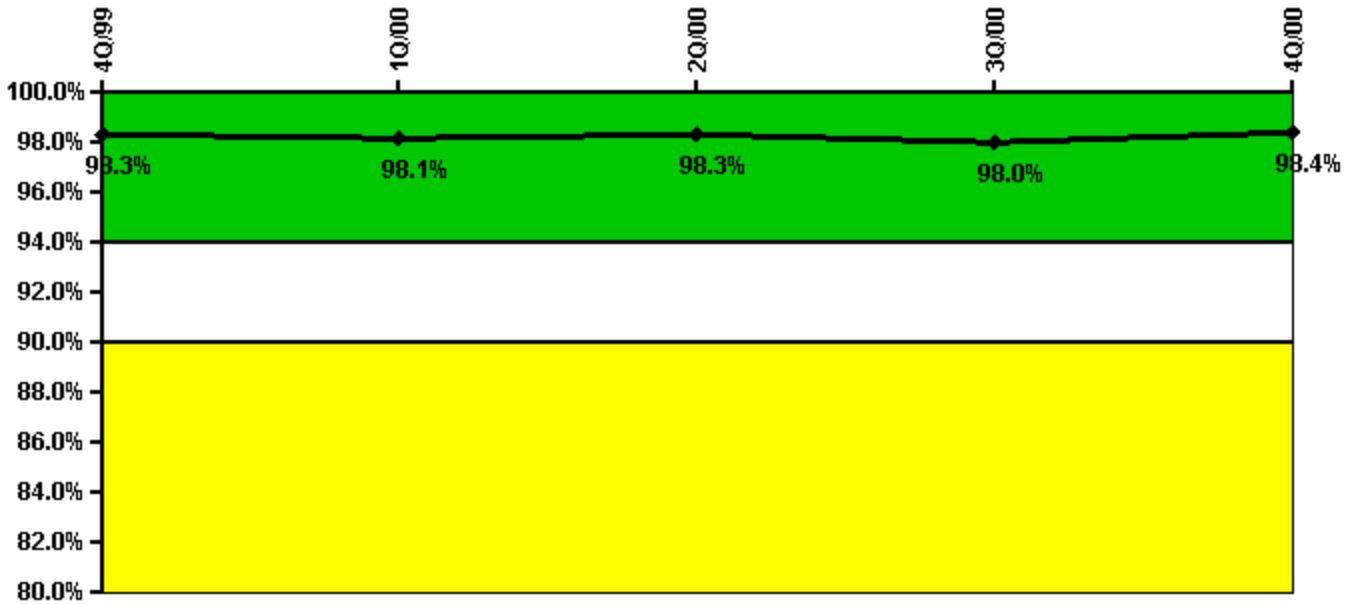
Thresholds: White < 80.0% Yellow < 60.0%

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



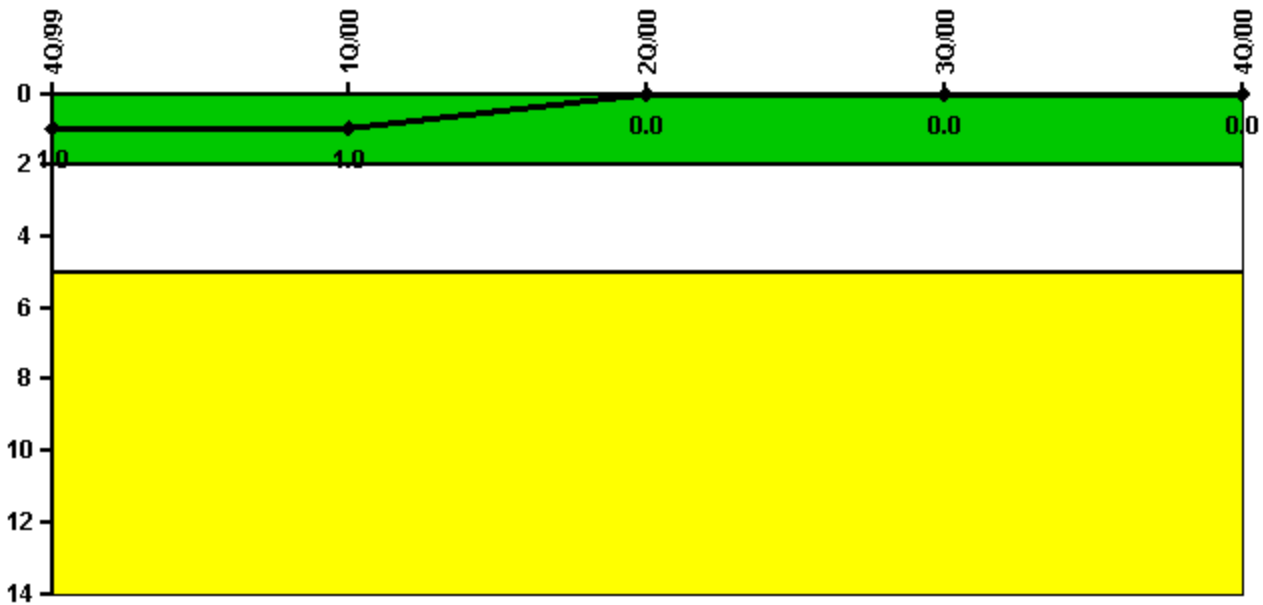
Thresholds: White < 94.0% Yellow < 90.0%

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



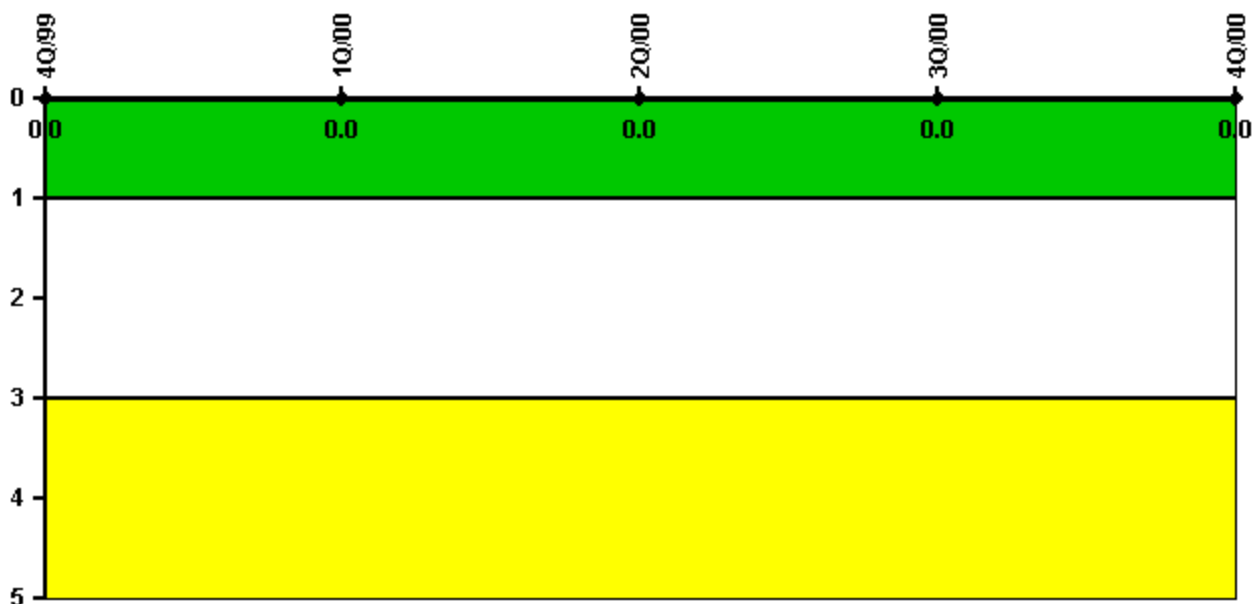
Thresholds: White > 2.0 Yellow > 5.0

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



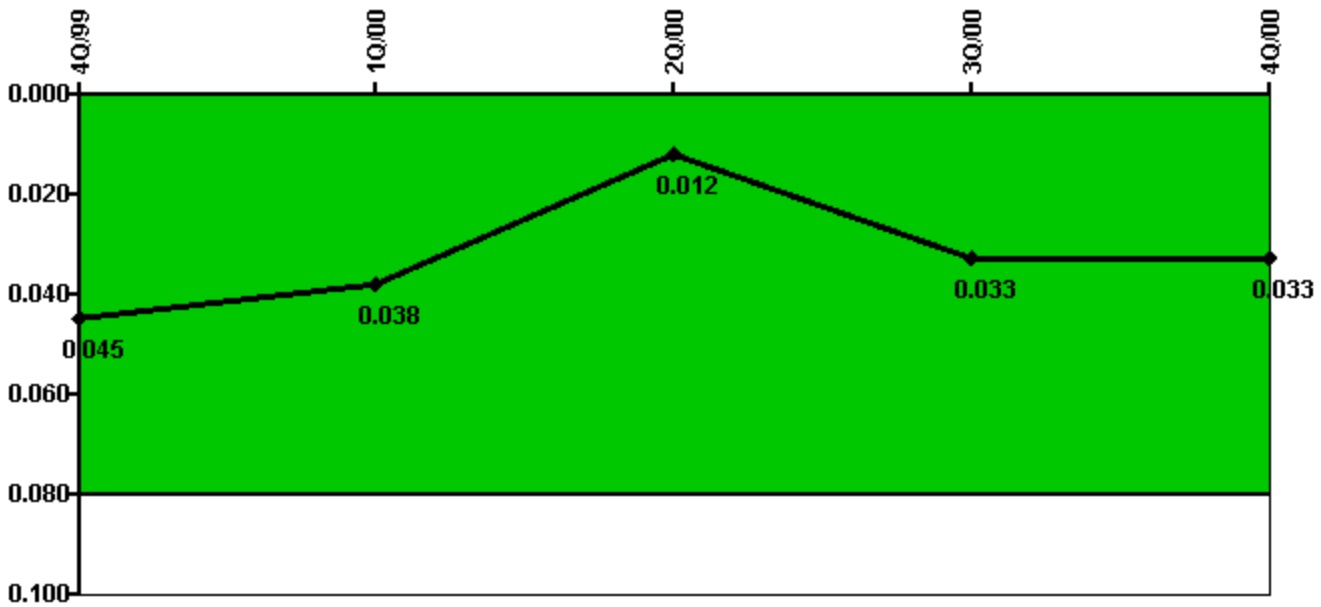
Thresholds: White > 1.0 Yellow > 3.0

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

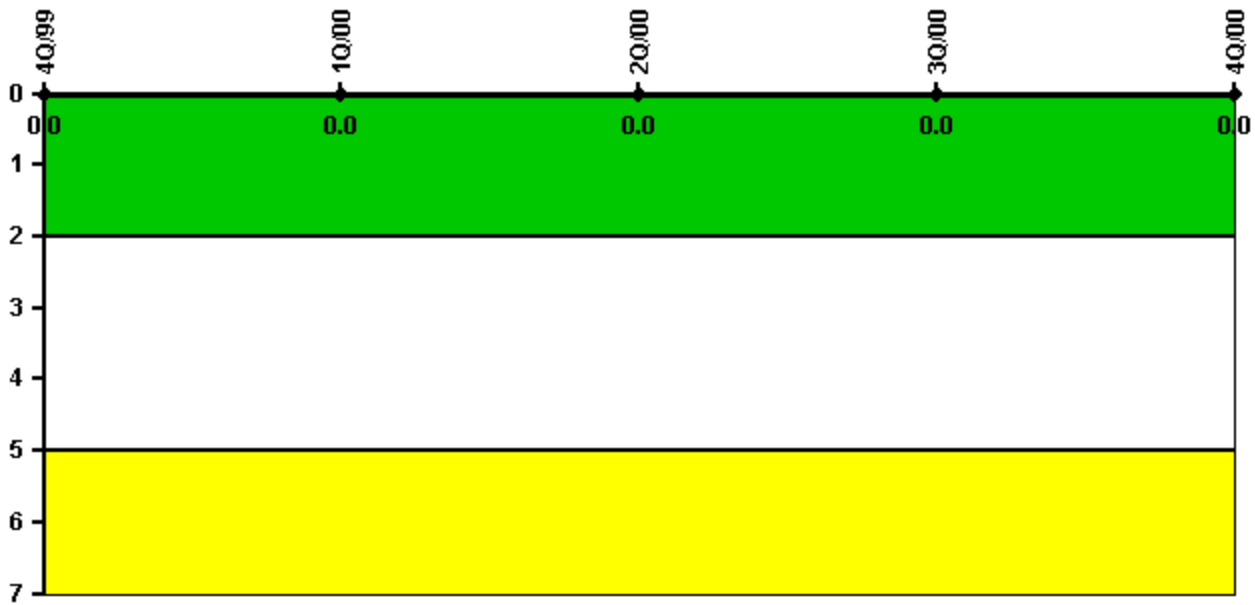
Notes

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



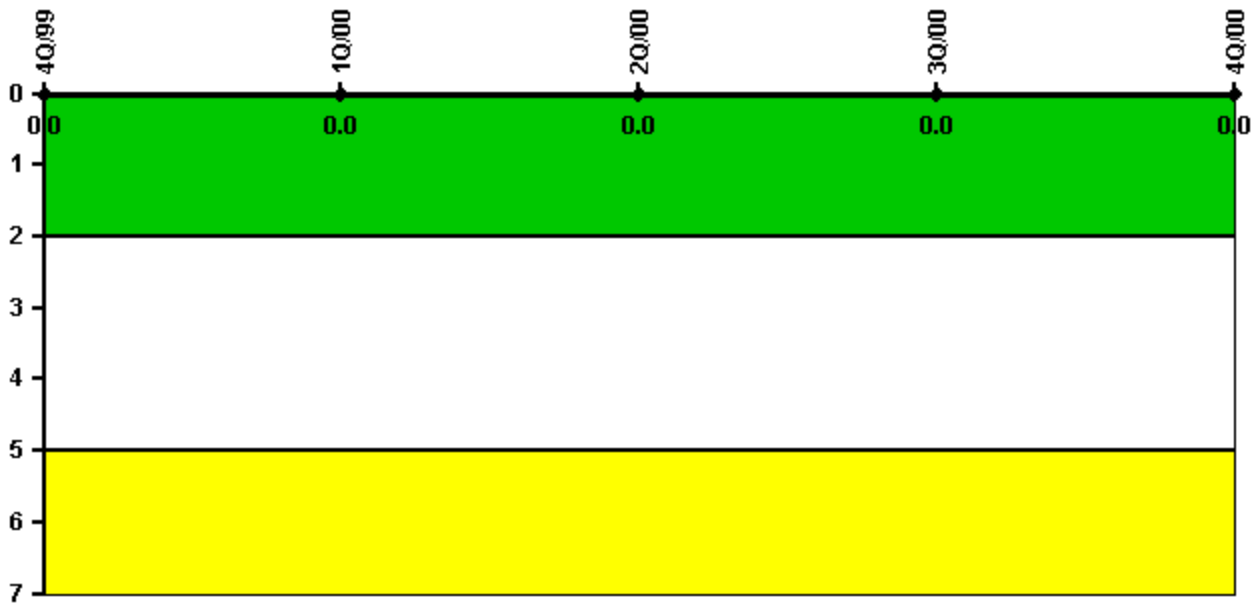
Thresholds: White > 2.0 Yellow > 5.0

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](#)

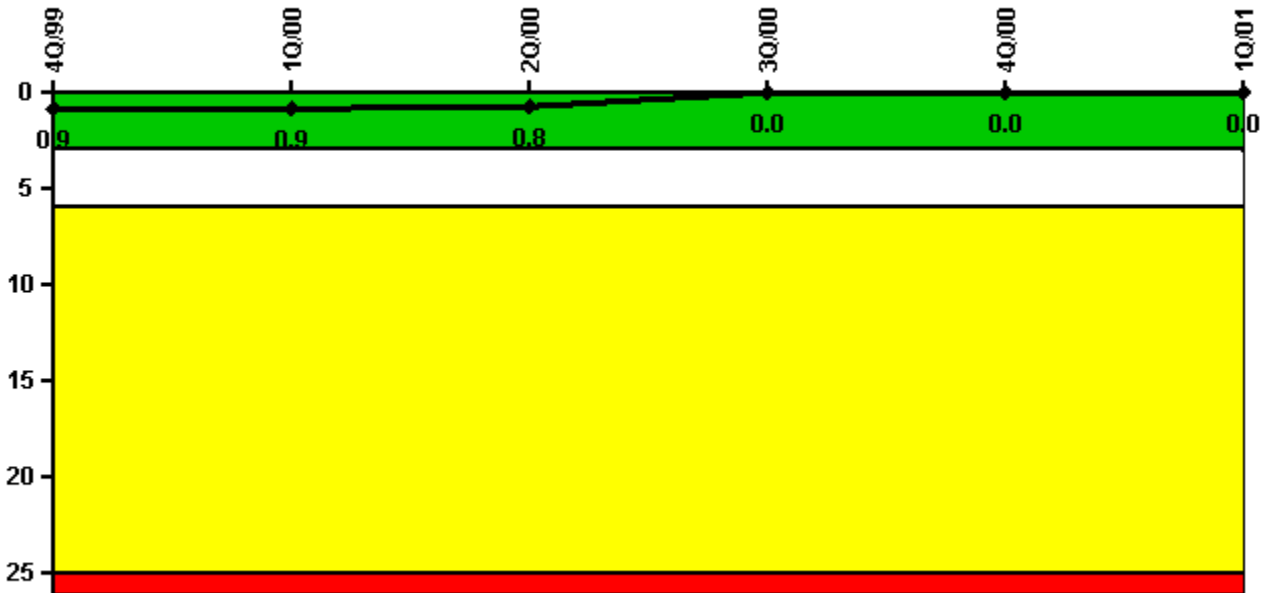
Last Modified: March 28, 2002

Surry 2

1Q/2001 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned scrams	0	0	0	0	0	0
Critical hours	2209.0	2184.0	2183.0	2208.0	1484.7	2122.9
Indicator value	0.9	0.9	0.8	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



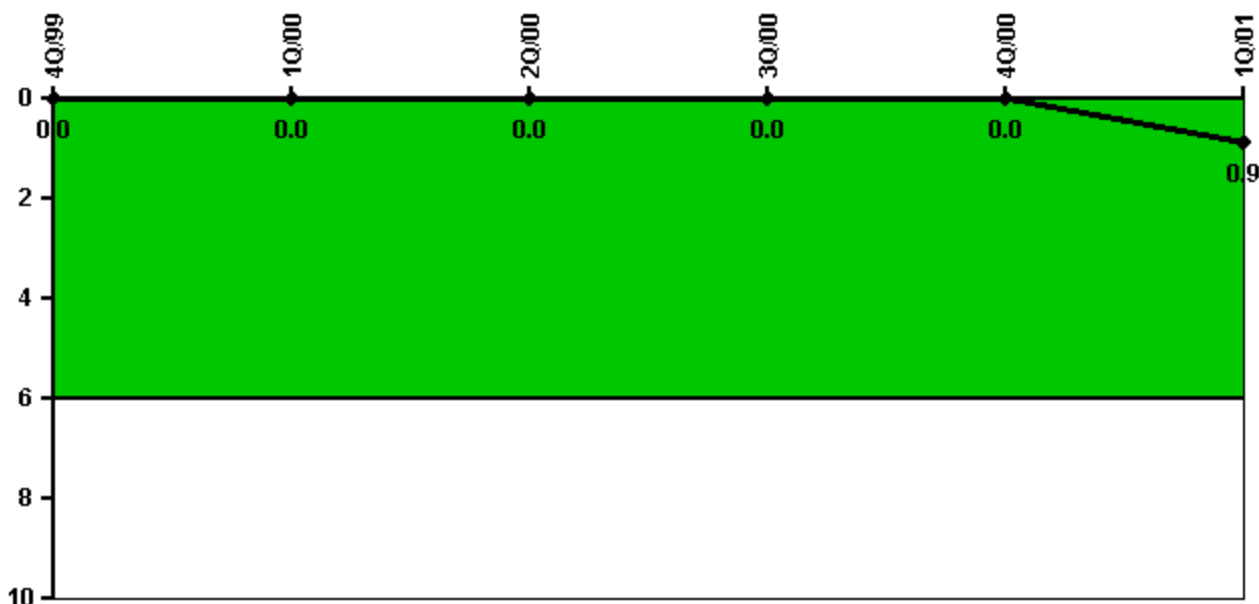
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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



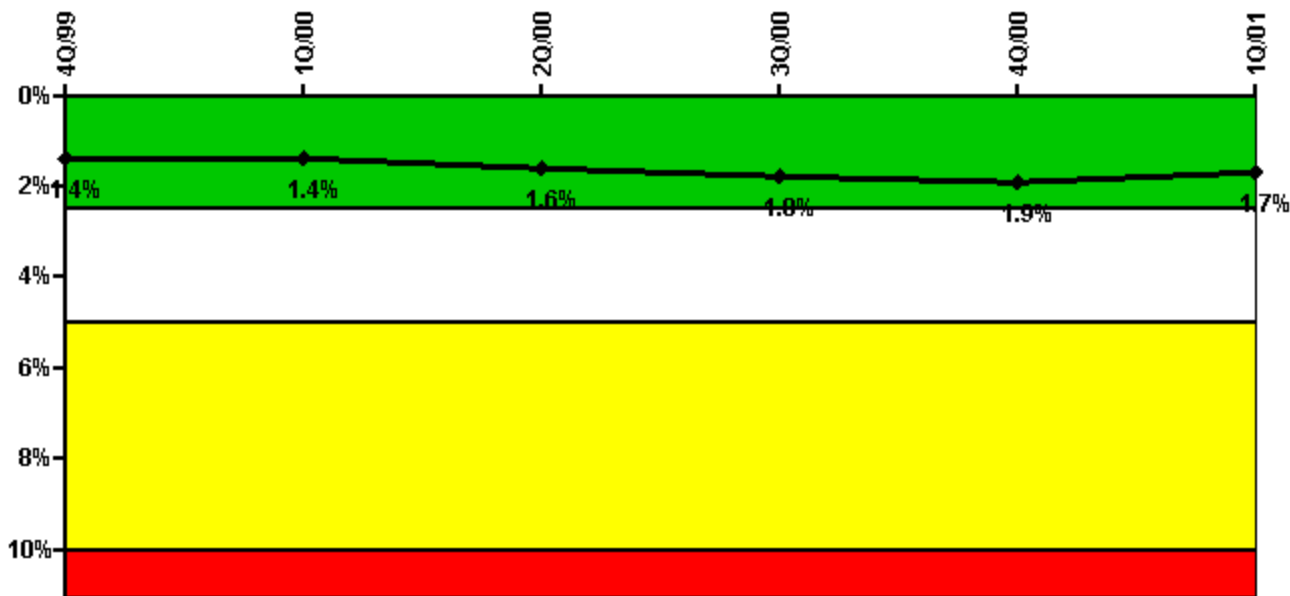
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned power changes	0	0	0	0	0	1.0
Critical hours	2209.0	2184.0	2183.0	2208.0	1484.7	2122.9
Indicator value	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

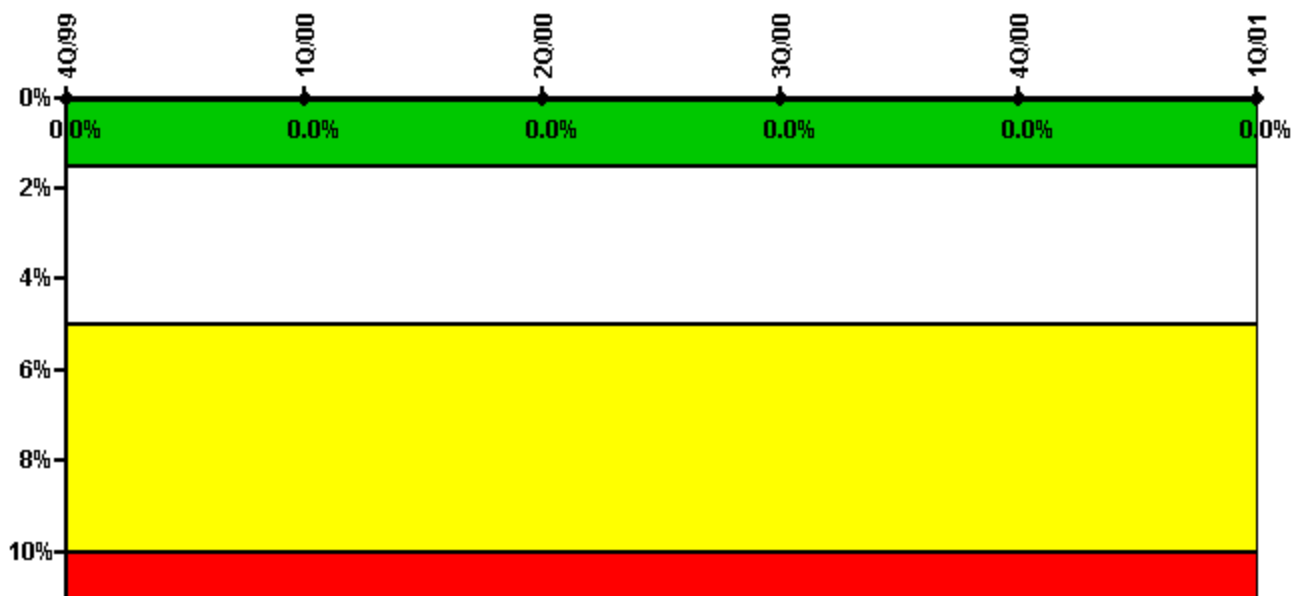
Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	12.15	15.00	22.60	71.39	15.07	33.44
Unplanned unavailable hours	0	0	0	18.94	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2013.20	2160.00
Train 2						
Planned unavailable hours	41.05	25.68	41.06	33.76	19.60	25.95
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	2013.20	2160.00
Indicator value	1.4%	1.4%	1.6%	1.8%	1.9%	1.7%

Licensee Comments:

1Q/01: An audit of unavailable hours required correcting data for Train 2 from 1Q2000 through 4Q2000. 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%

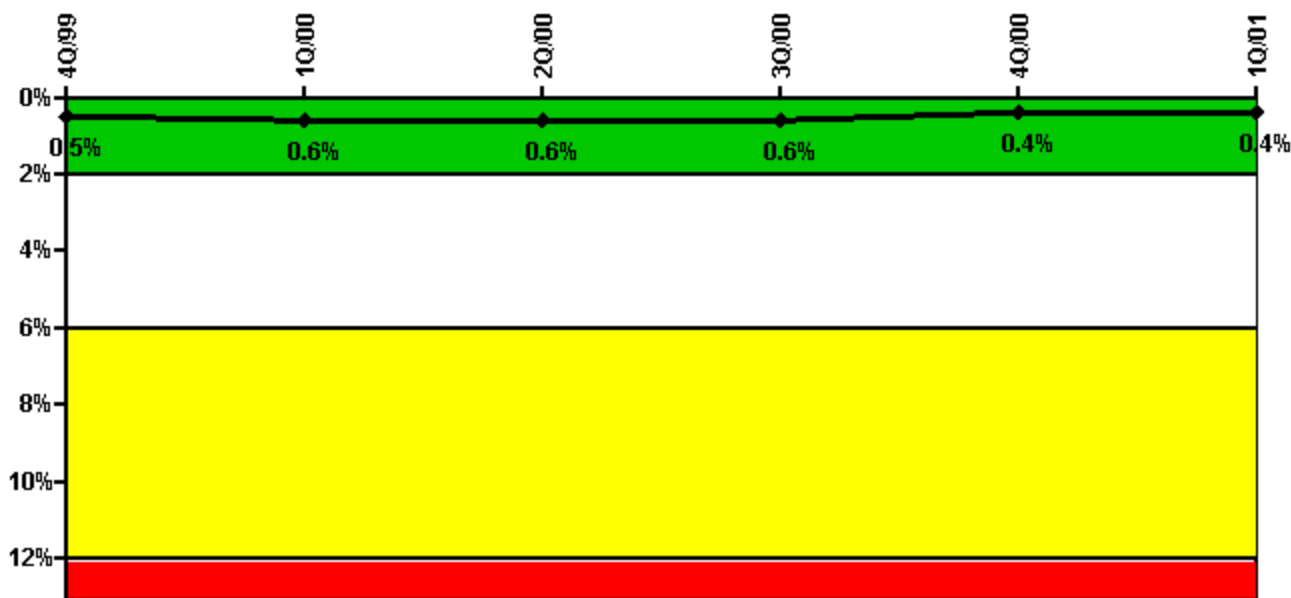
Notes

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	6.20	0	0	2.07	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	2183.00	2208.00	1557.80	2160.00
Train 2						
Planned unavailable hours	0	0	0	0.92	3.00	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	2183.00	2208.00	1557.80	2160.00
Indicator value	0%	0%	0%	0%	0%	0%

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%

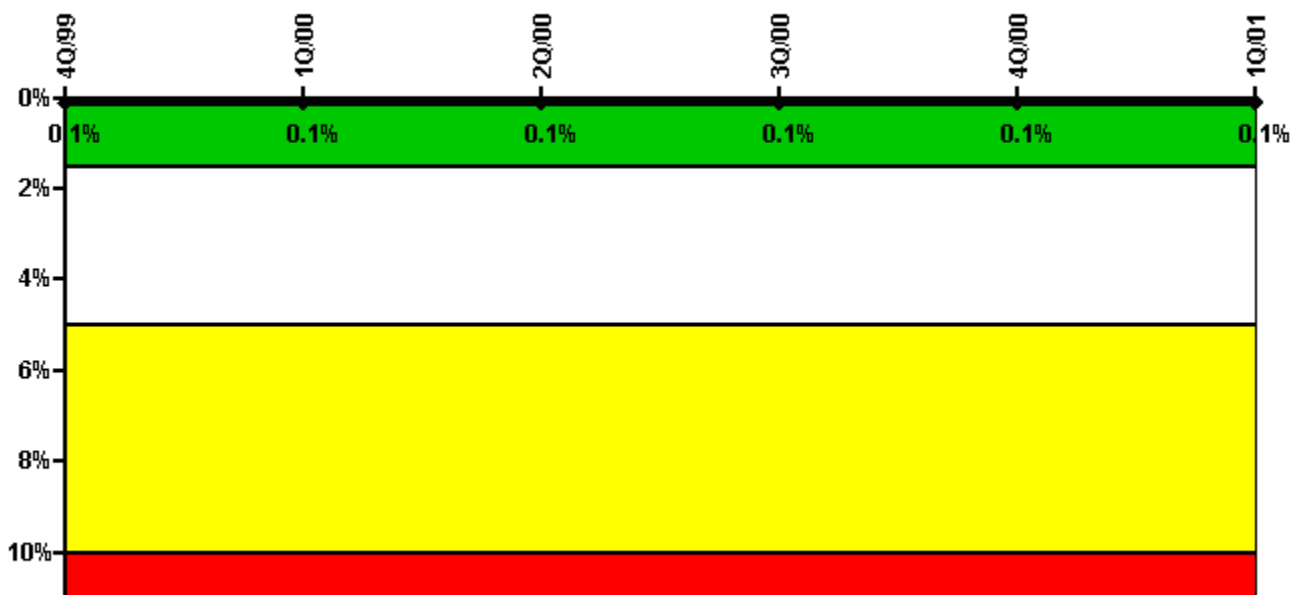
Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	1.20	1.30	10.90	0.85	9.90	4.30
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	2183.00	2208.00	1557.80	2160.00
Train 2						
Planned unavailable hours	5.10	10.20	11.30	1.48	0	16.50
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1557.80	2160.00
Train 3						
Planned unavailable hours	11.30	20.90	1.50	5.48	2.30	1.70
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	2183.00	2208.00	1557.80	2160.00
Indicator value	0.5%	0.6%	0.6%	0.6%	0.4%	0.4%

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

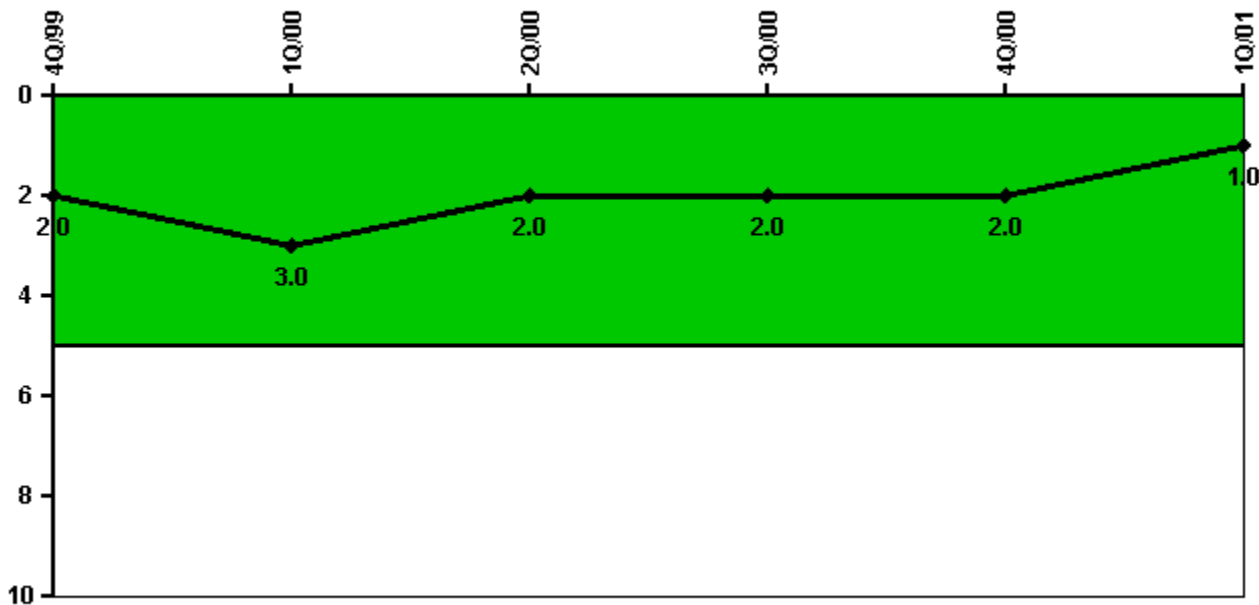
Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0	0.10	0.60	0.05	0	11.30
Unplanned unavailable hours	0	0	1.80	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1557.80	2160.00
Train 2						
Planned unavailable hours	0	8.40	1.70	0.44	0	2.80
Unplanned unavailable hours	0	0	1.70	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1557.80	2160.00
Train 3						
Planned unavailable hours	0	0	0	9.68	1.65	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	2183.00	2208.00	2013.20	2160.00
Train 4						
Planned unavailable hours	0	0	0	9.60	0.06	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	2183.00	2208.00	2013.20	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 Functional Failures (PWR)



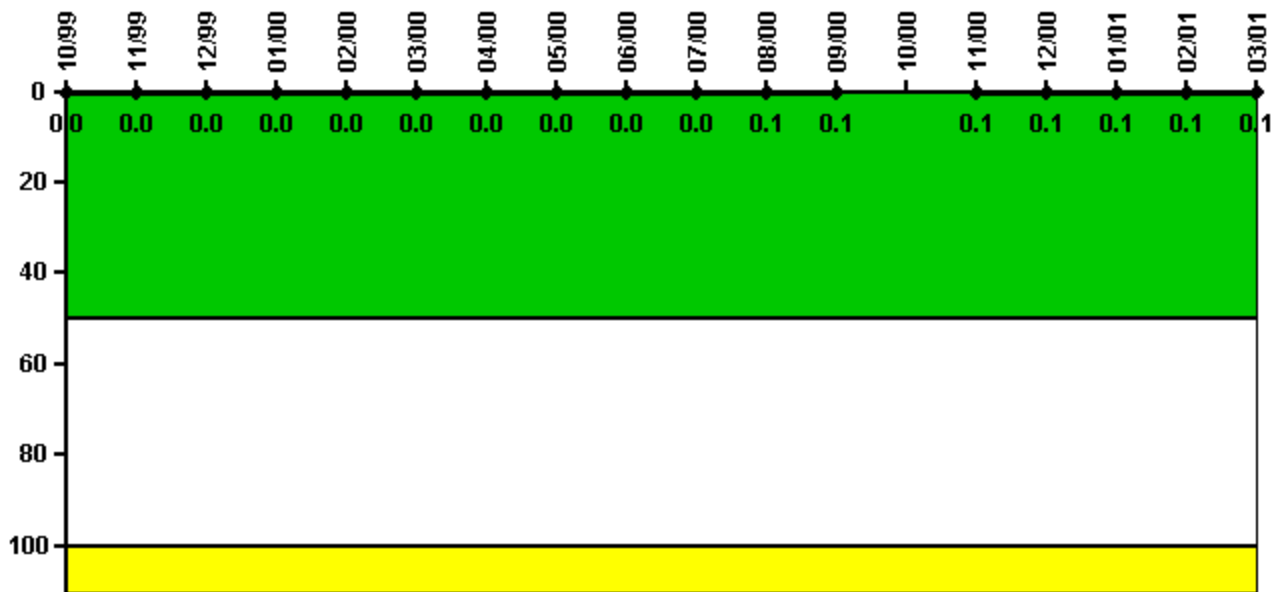
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

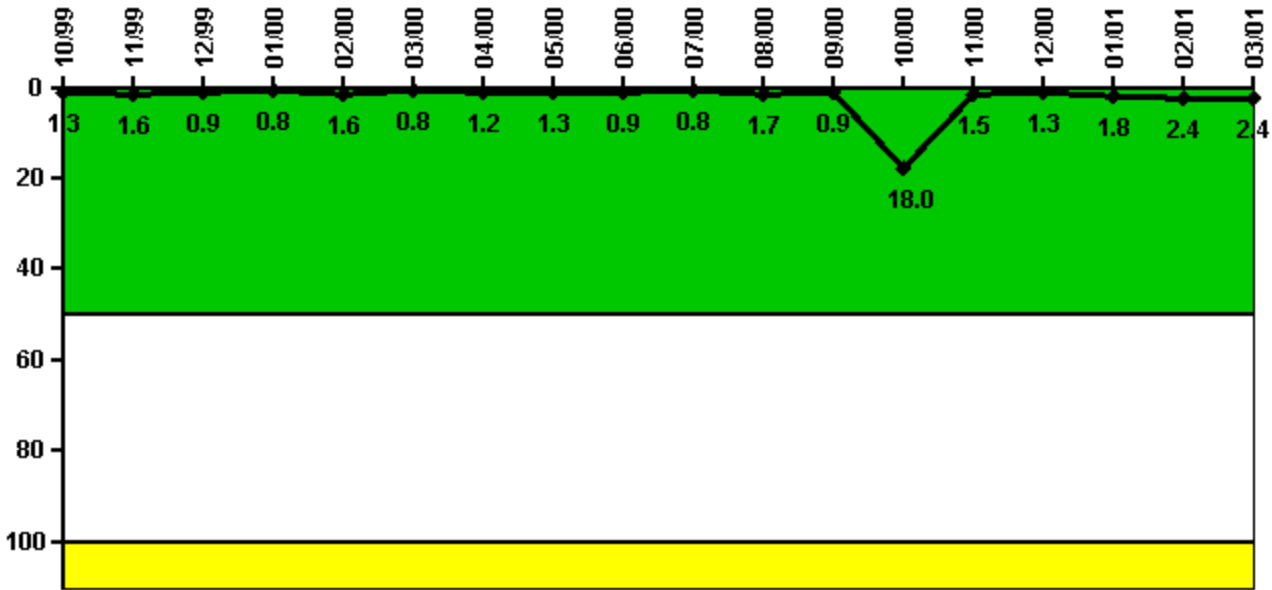
Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.000486	0.000404	0.000454	0.000380	0.000410	0.000436	0.000430	0.000441	0.000475	0.000453	0.000738	0.000552
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0.1	0.1

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	N/A	0.000842	0.000834	0.000951	0.000951	0.000914
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

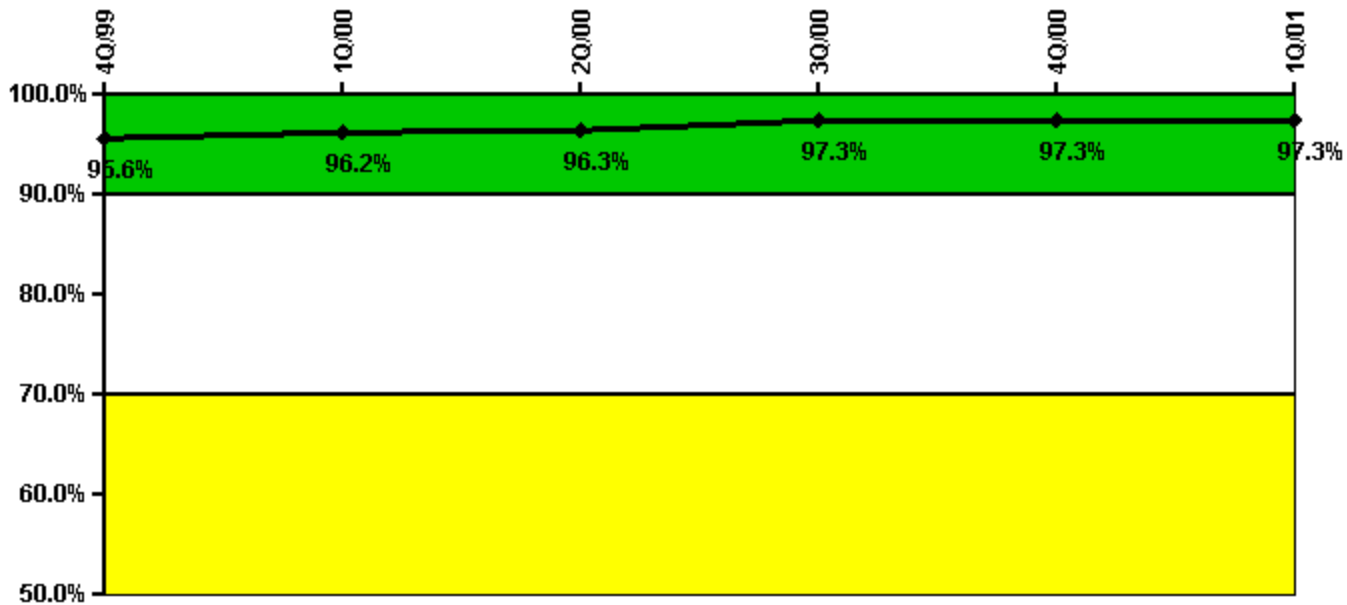
Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.130	0.160	0.090	0.080	0.160	0.080	0.120	0.130	0.090	0.080	0.170	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.6	0.9	0.8	1.6	0.8	1.2	1.3	0.9	0.8	1.7	0.9

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	1.800	0.150	0.130	0.180	0.240	0.240
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	18.0	1.5	1.3	1.8	2.4	2.4

Licensee Comments: none

Drill/Exercise Performance



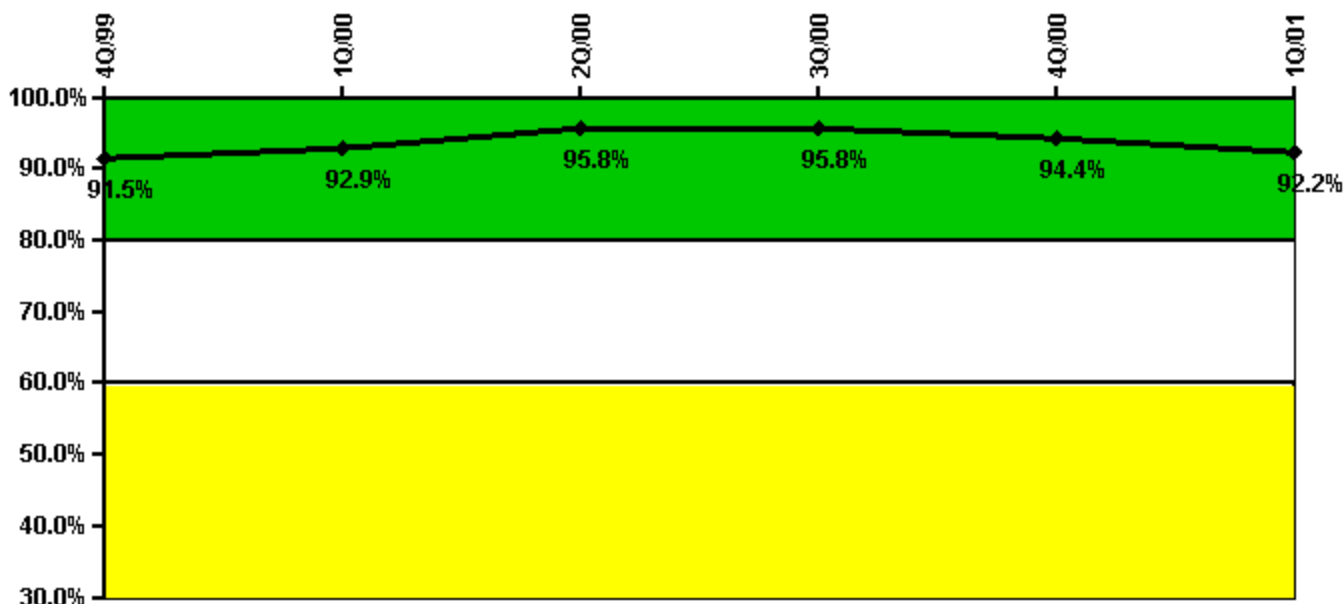
Thresholds: White < 90.0% Yellow < 70.0%

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



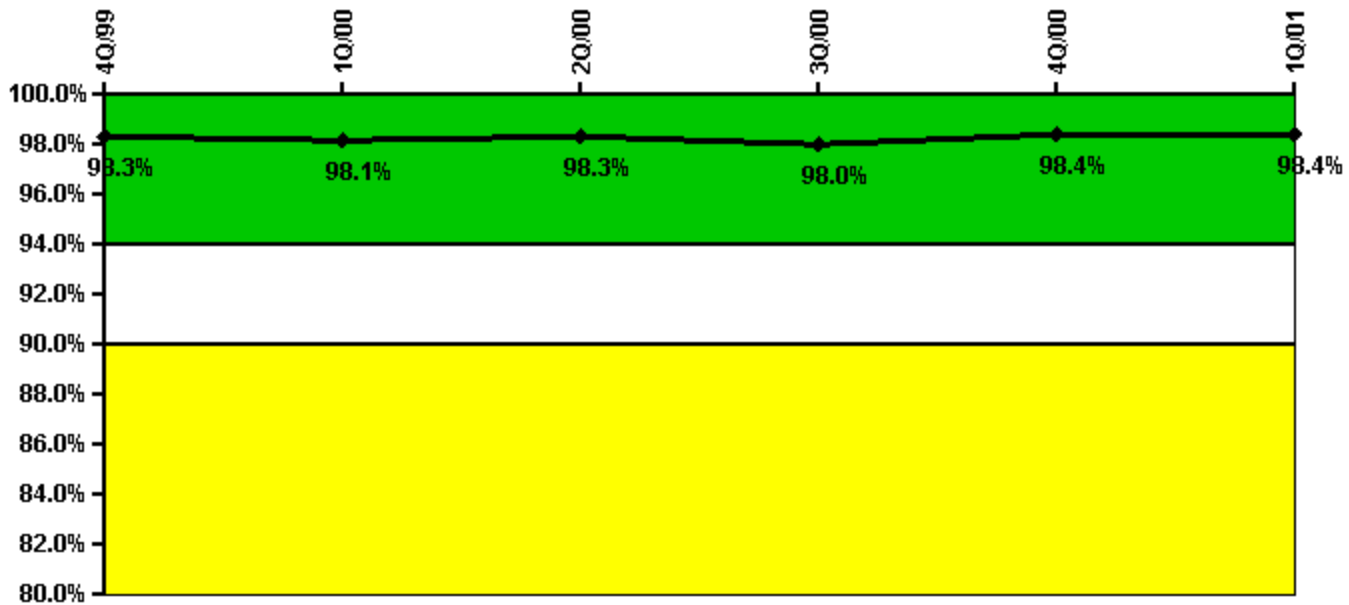
Thresholds: White < 80.0% Yellow < 60.0%

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



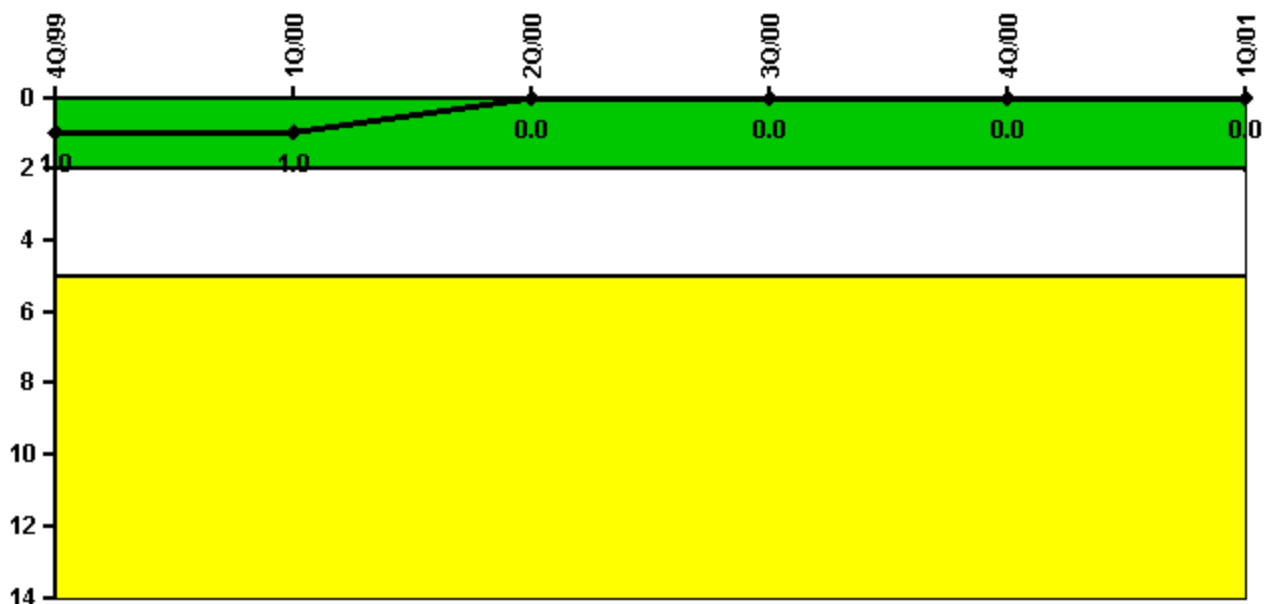
Thresholds: White < 94.0% Yellow < 90.0%

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



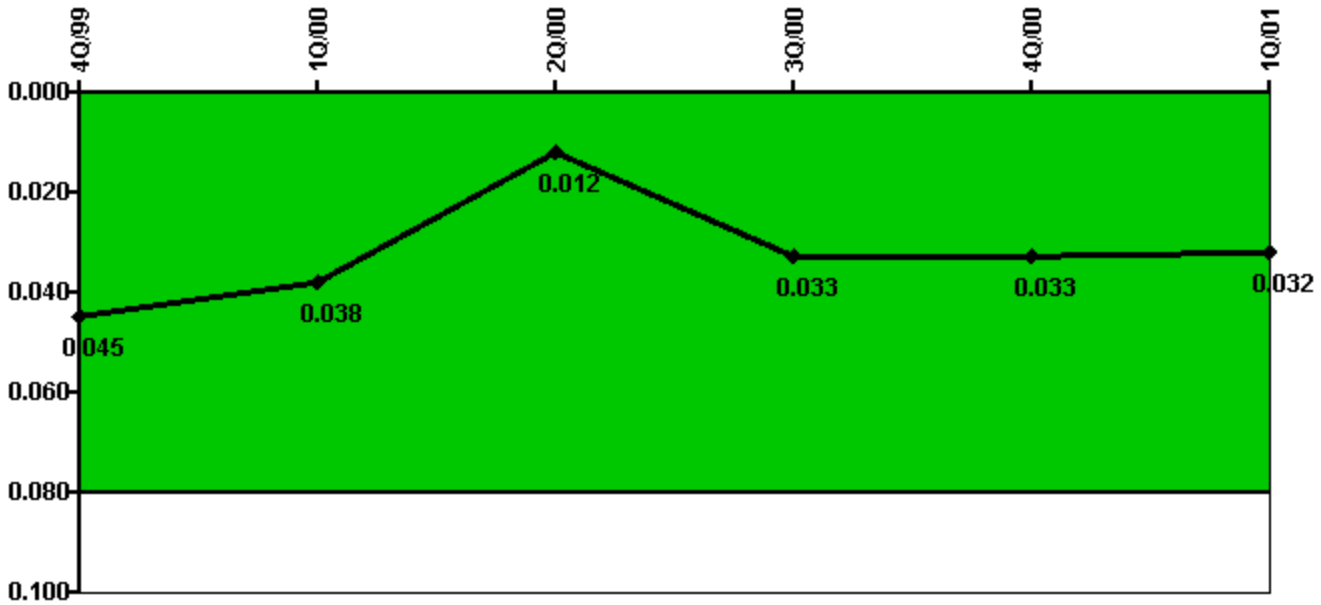
Thresholds: White > 1.0 Yellow > 3.0

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

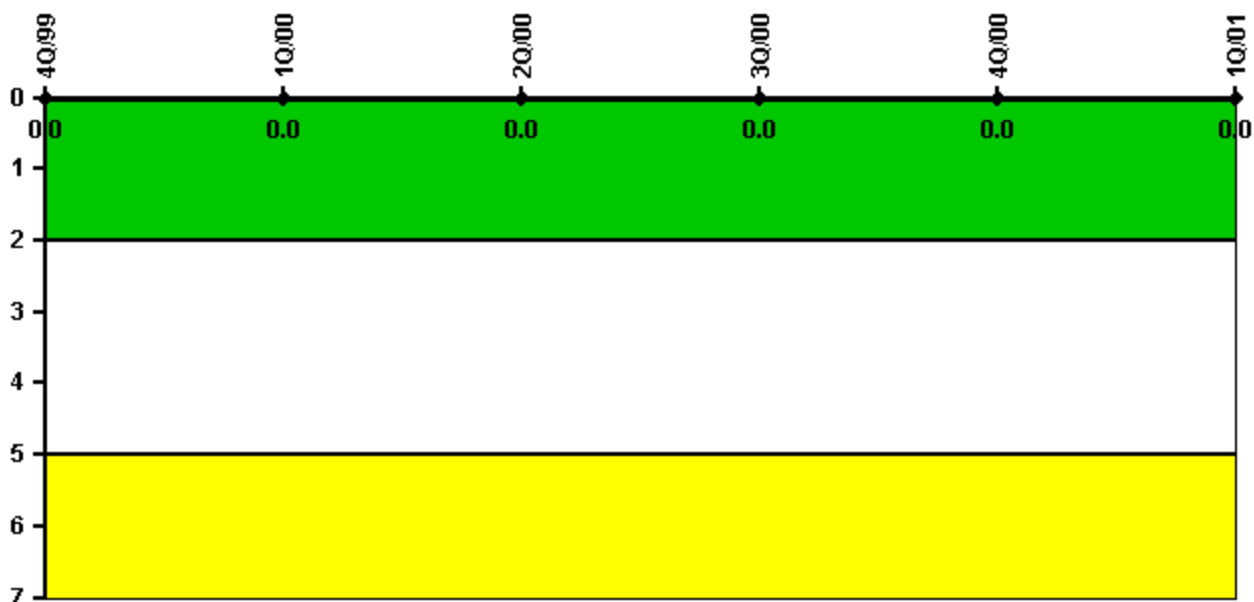
Notes

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](#)

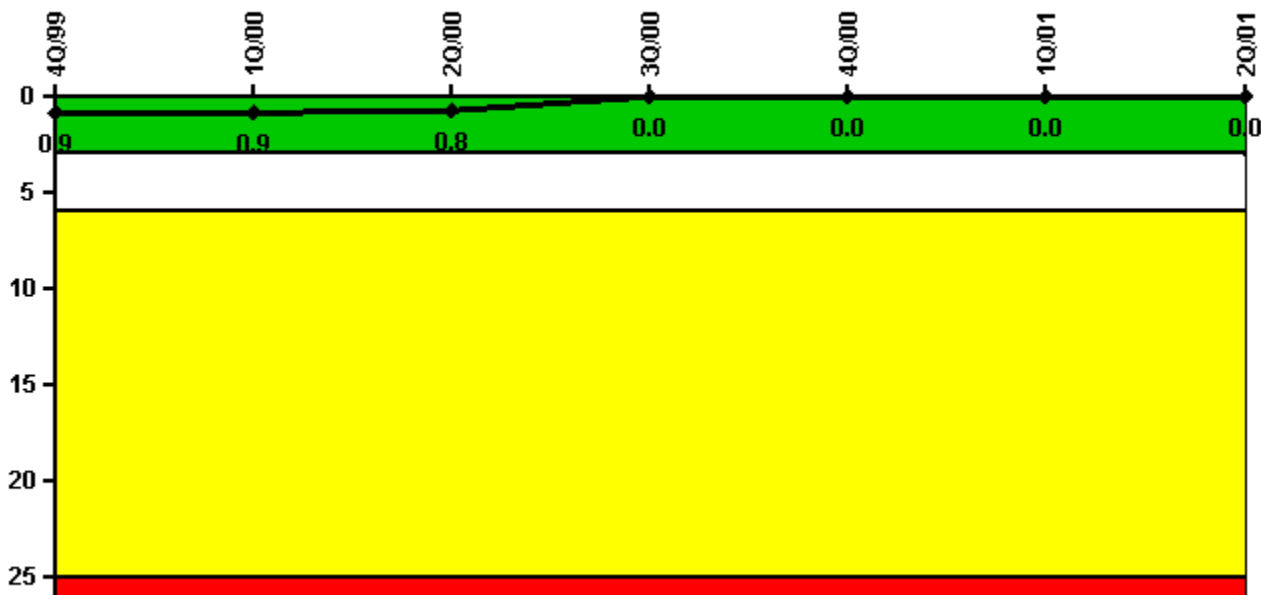
Last Modified: March 28, 2002

Surry 2

2Q/2001 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



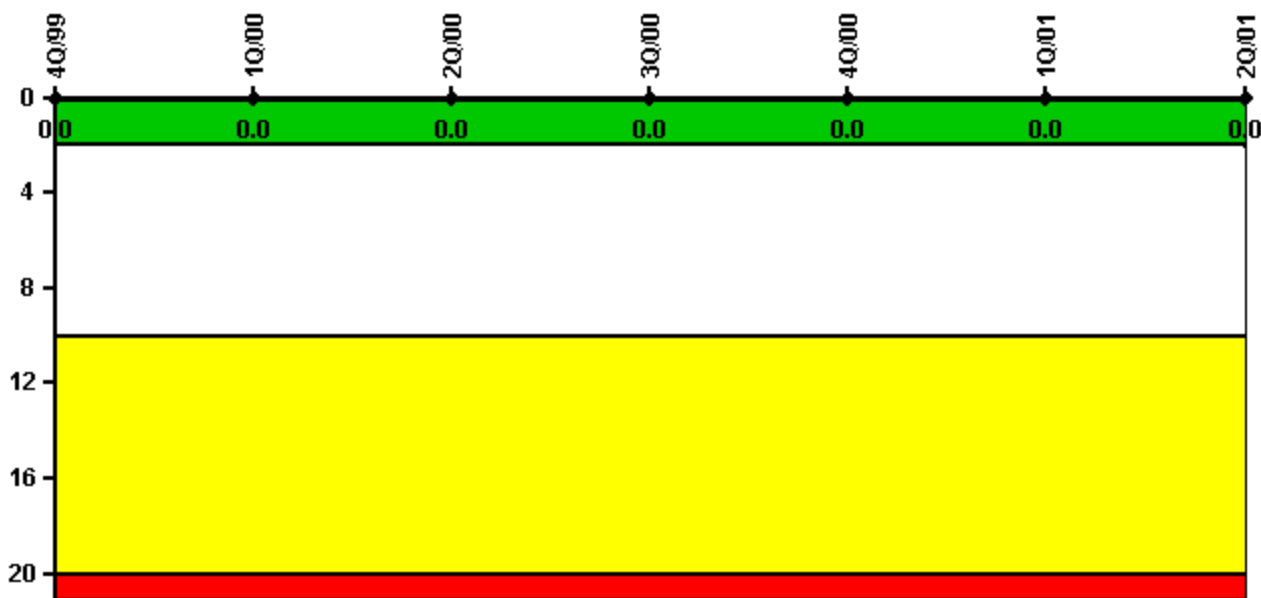
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned scrams	0	0	0	0	0	0	0
Critical hours	2209.0	2184.0	2183.0	2208.0	1484.7	2122.9	1947.6
Indicator value	0.9	0.9	0.8	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



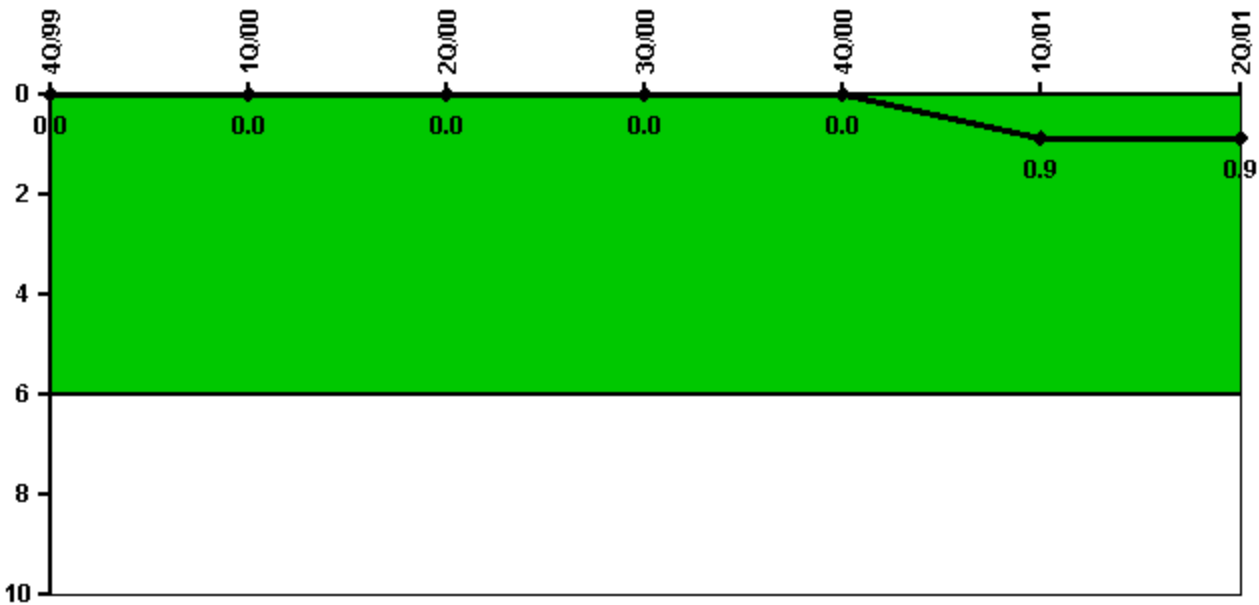
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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



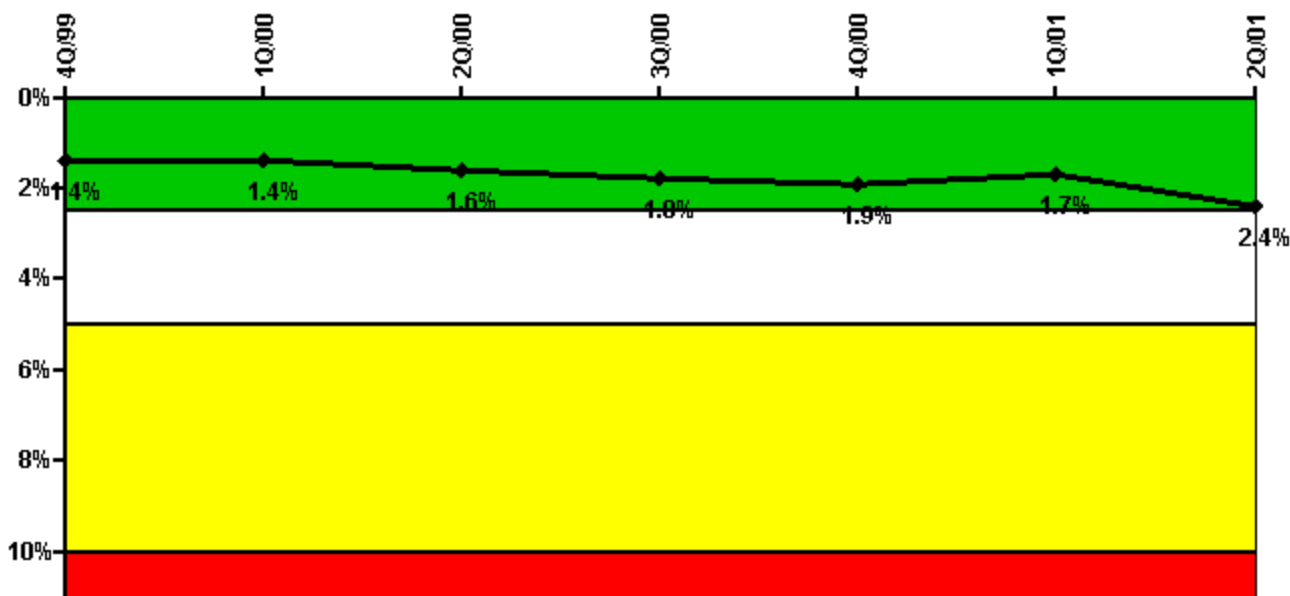
Thresholds: White > 6.0

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	0	0	0	0	1.0	0
Critical hours	2209.0	2184.0	2183.0	2208.0	1484.7	2122.9	1947.6
Indicator value	0	0	0	0	0	0.9	0.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



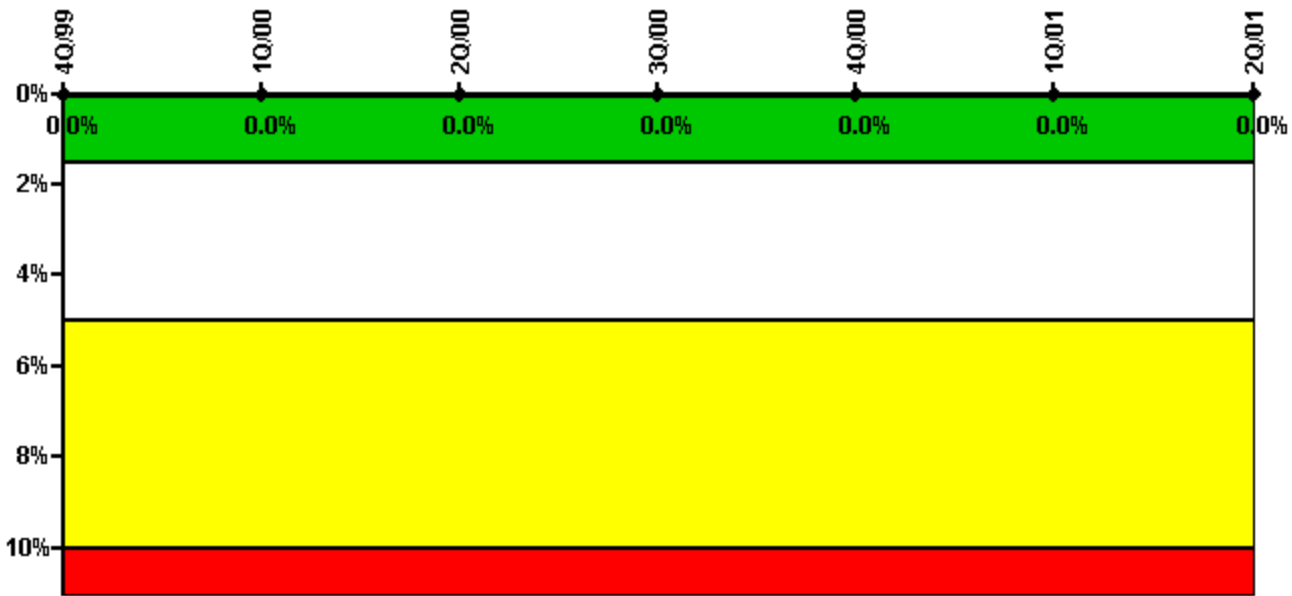
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	12.15	15.00	22.60	71.39	15.07	33.44	10.63
Unplanned unavailable hours	0	0	0	18.94	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2013.20	2160.00	1988.57
Train 2							
Planned unavailable hours	41.05	25.68	41.06	33.76	19.60	25.95	15.77
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	2013.20	2160.00	1988.57
Indicator value	1.4%	1.4%	1.6%	1.8%	1.9%	1.7%	2.4%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



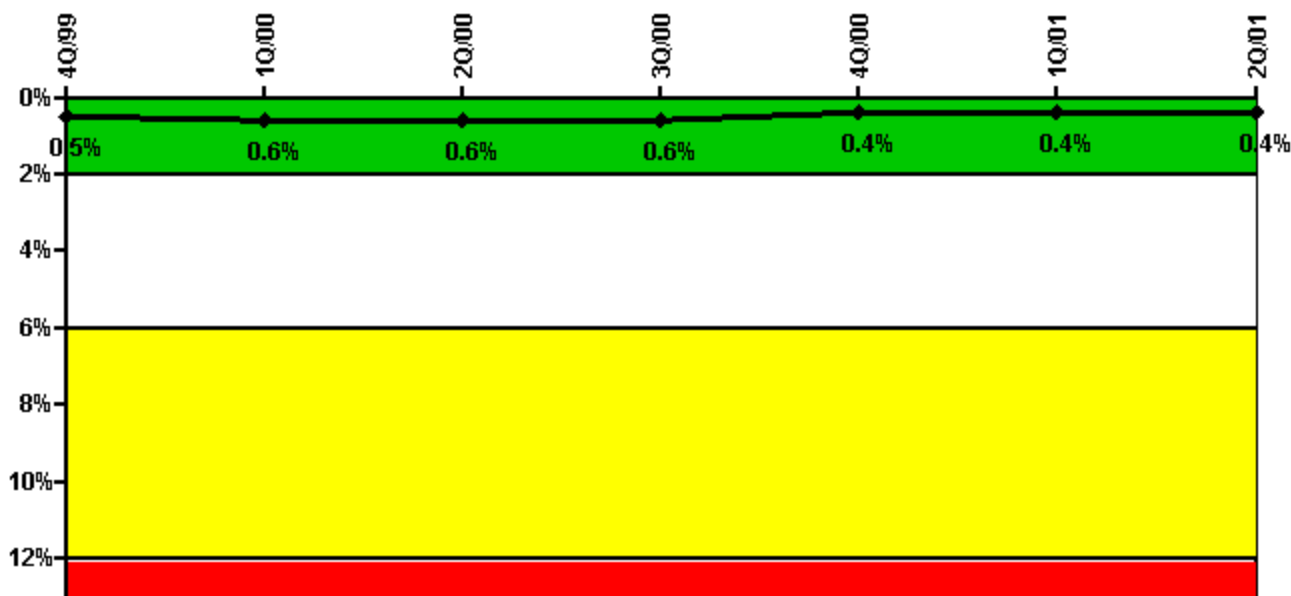
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	6.20	0	0	2.07	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	2183.00	2208.00	1557.80	2160.00	1993.40
Train 2							
Planned unavailable hours	0	0	0	0.92	3.00	0.70	3.10
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1557.80	2160.00	1993.40
Indicator value	0%	0%	0%	0%	0%	0%	0%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



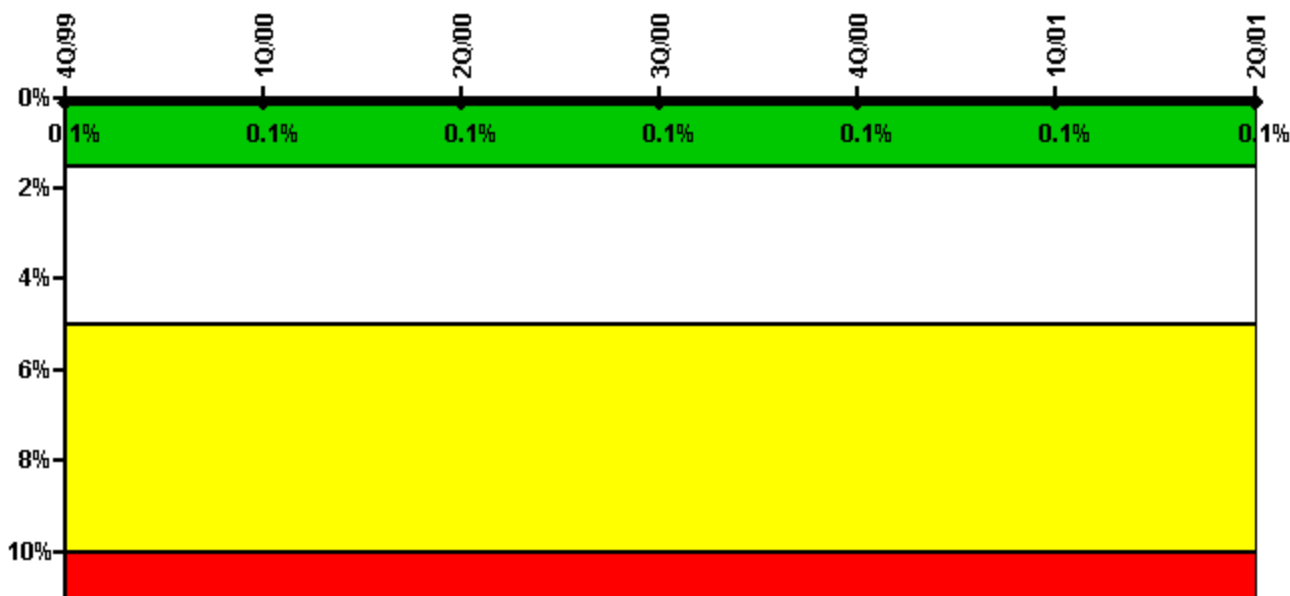
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	1.20	1.30	10.90	0.85	9.90	4.30	1.10
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1557.80	2160.00	1993.40
Train 2							
Planned unavailable hours	5.10	10.20	11.30	1.48	0	16.50	1.40
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1557.80	2160.00	1993.40
Train 3							
Planned unavailable hours	11.30	20.90	1.50	5.48	2.30	1.70	9.50
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	2183.00	2208.00	1557.80	2160.00	1993.40
Indicator value	0.5%	0.6%	0.6%	0.6%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



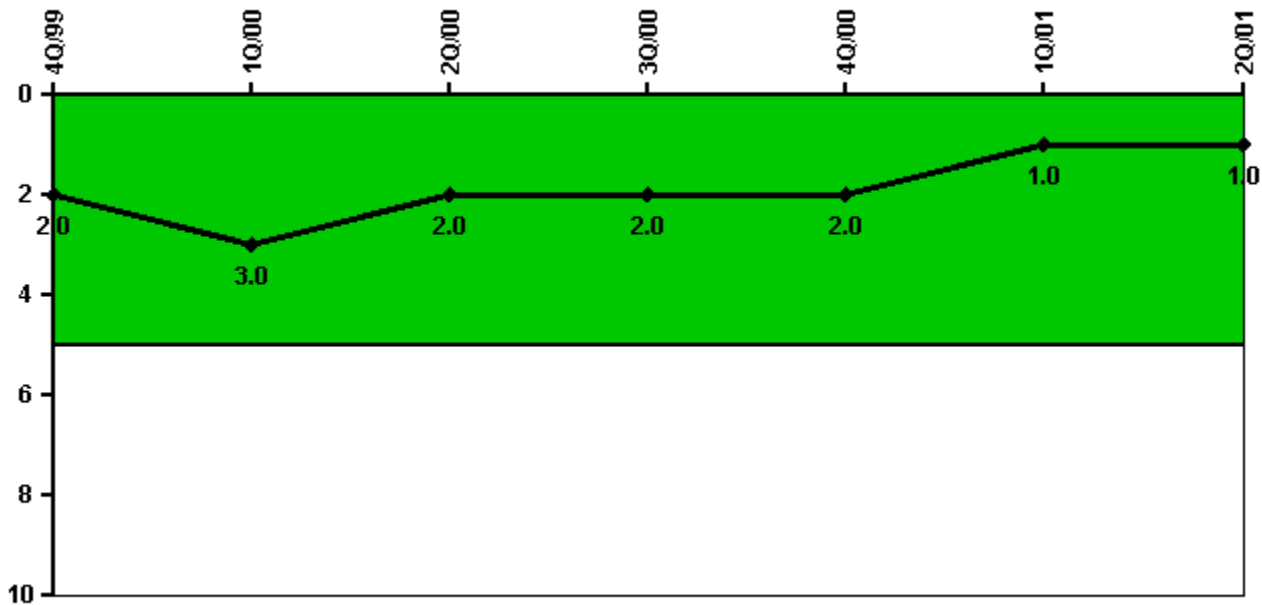
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	0	0.10	0.60	0.05	0	11.30	0.10
Unplanned unavailable hours	0	0	1.80	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	2183.00	2208.00	1557.80	2160.00	1993.40
Train 2							
Planned unavailable hours	0	8.40	1.70	0.44	0	2.80	0.70
Unplanned unavailable hours	0	0	1.70	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1557.80	2160.00	1993.40
Train 3							
Planned unavailable hours	0	0	0	9.68	1.65	0	0.30
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2013.20	2160.00	1993.40
Train 4							
Planned unavailable hours	0	0	0	9.60	0.06	0	0.40
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2013.20	2160.00	1993.40
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



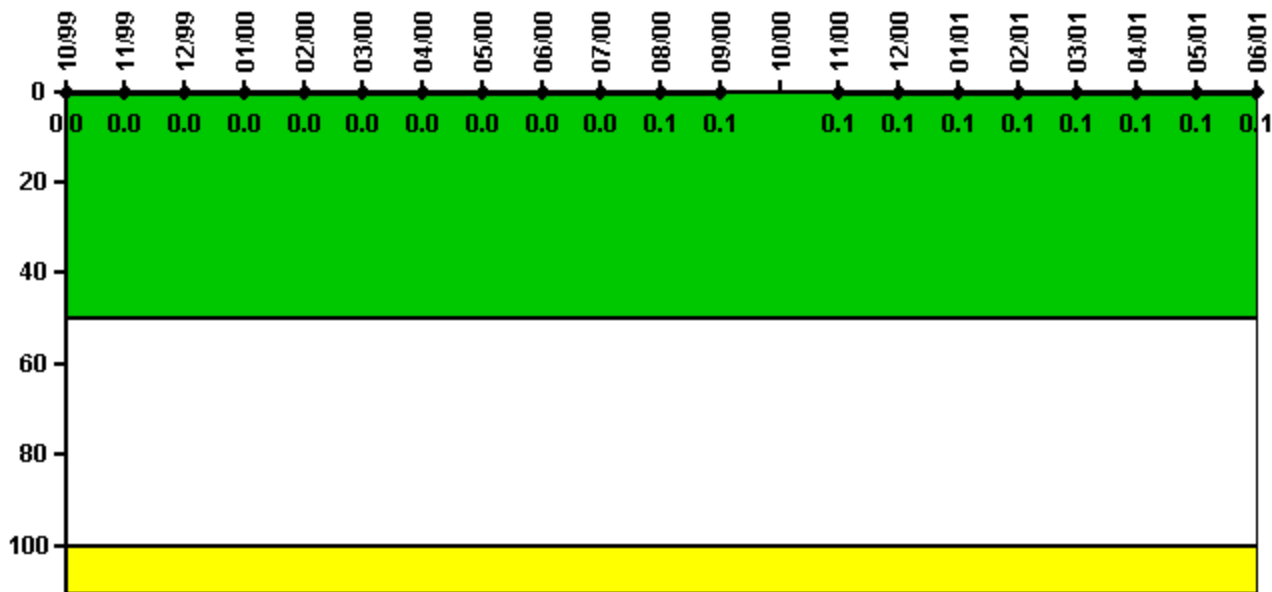
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

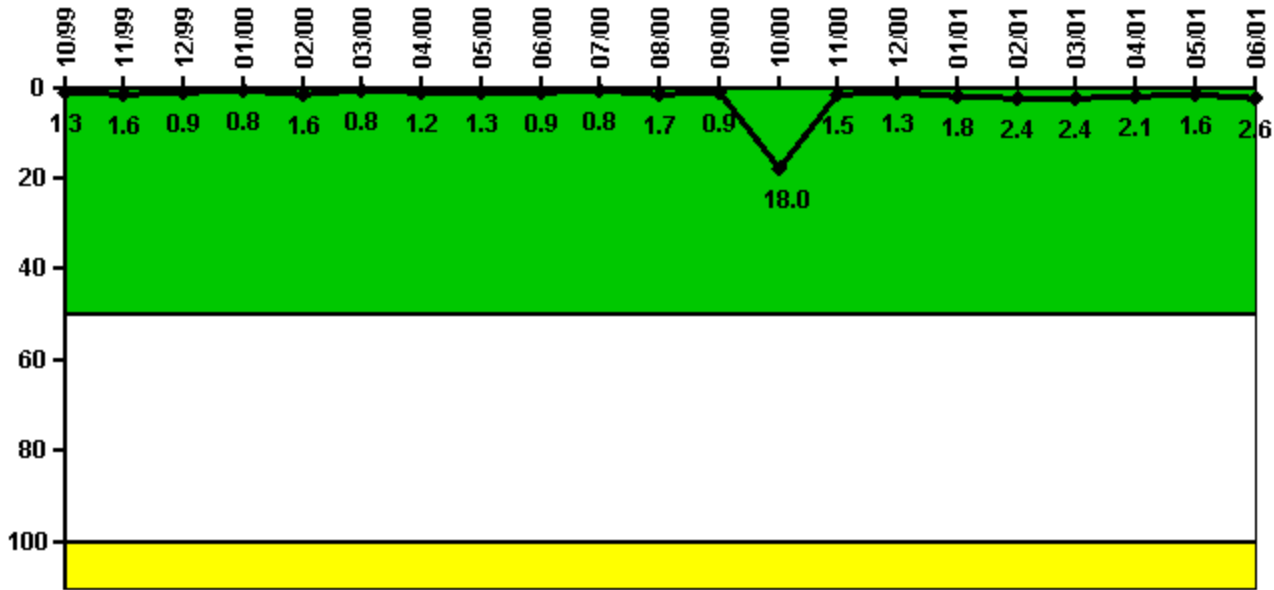
Notes

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	0.000486	0.000404	0.000454	0.000380	0.000410	0.000436	0.000430	0.000441	0.000475	0.000453	0.000738	0.000552
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0.1	0.1

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	N/A	0.000842	0.000834	0.000951	0.000951	0.000914	0.001100	0.000977	0.001190
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	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

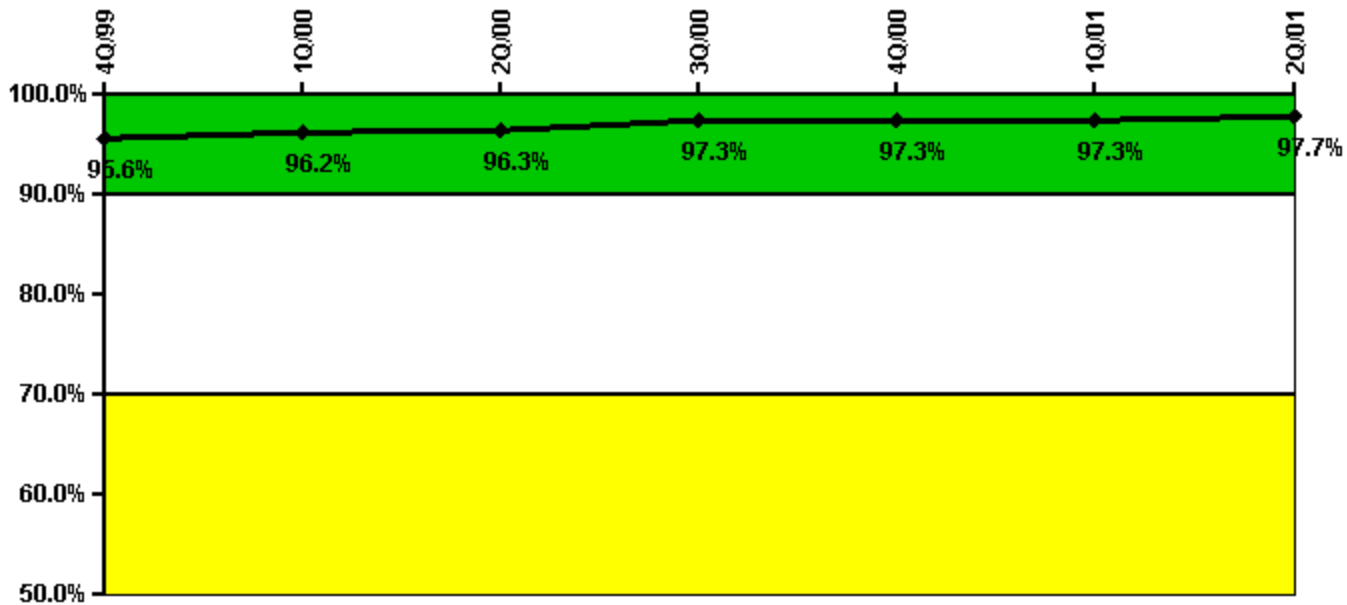
Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.130	0.160	0.090	0.080	0.160	0.080	0.120	0.130	0.090	0.080	0.170	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.6	0.9	0.8	1.6	0.8	1.2	1.3	0.9	0.8	1.7	0.9

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	1.800	0.150	0.130	0.180	0.240	0.240	0.210	0.160	0.260
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	18.0	1.5	1.3	1.8	2.4	2.4	2.1	1.6	2.6

Licensee Comments:

6/01: An audit of the leak rate data determined the October, 2000 submittal was inaccurate. Data was corrected with no change in color.

Drill/Exercise Performance



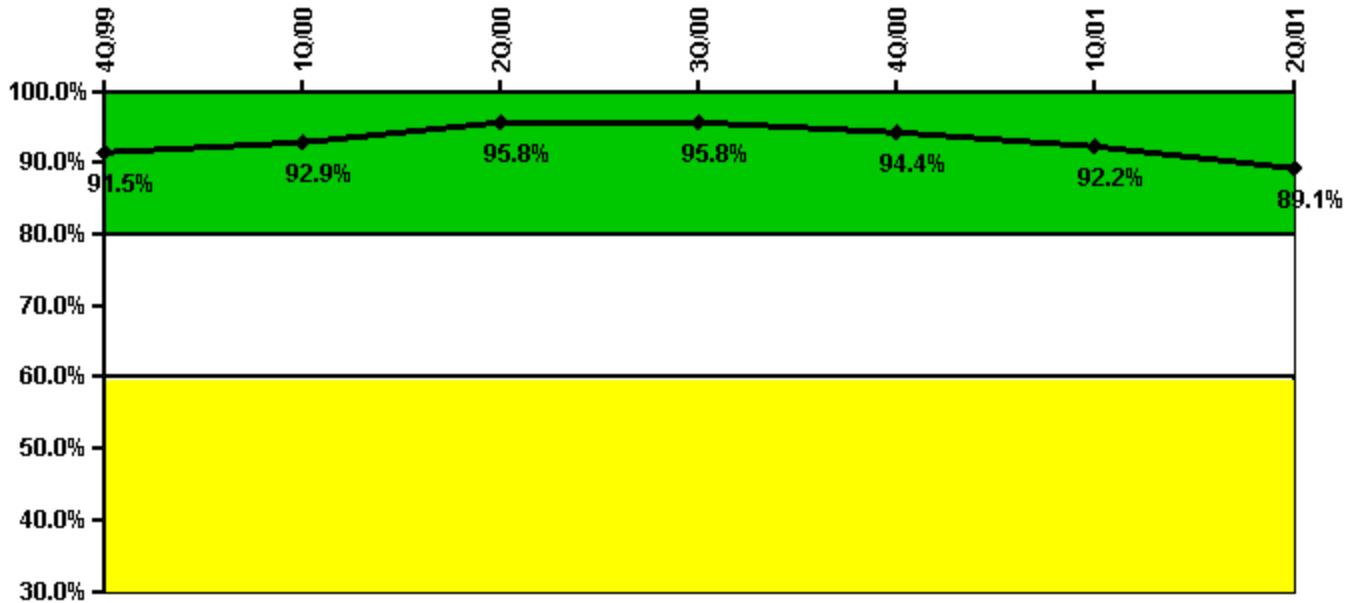
Thresholds: White < 90.0% Yellow < 70.0%

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



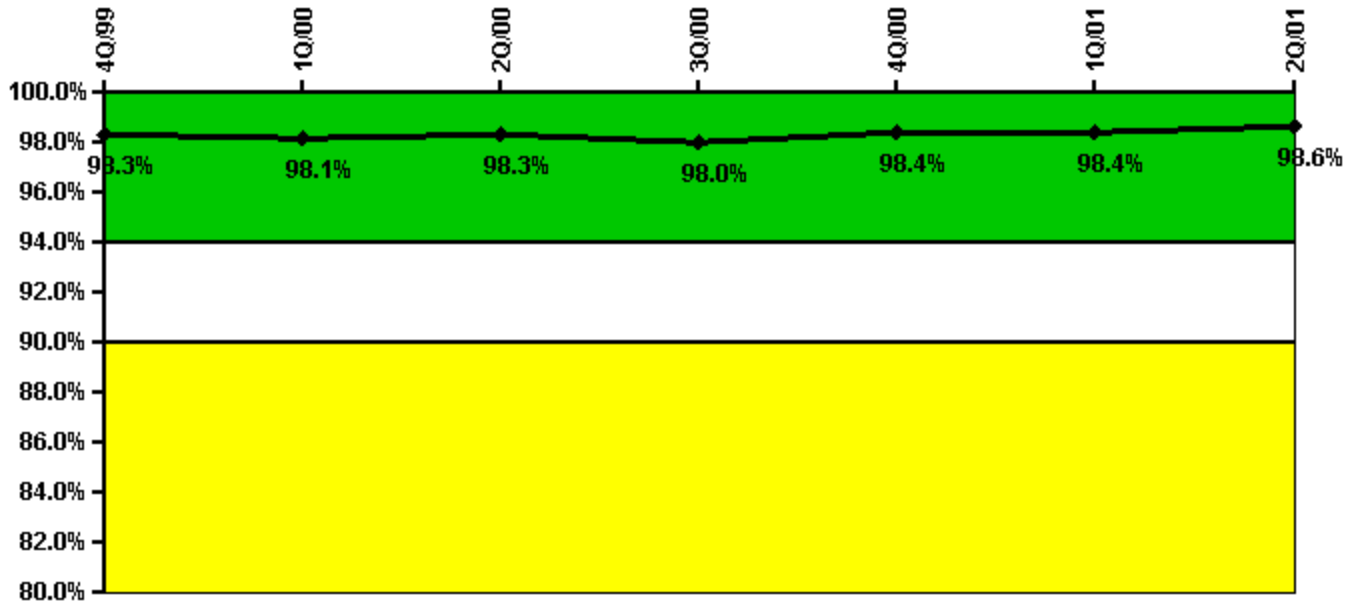
Thresholds: White < 80.0% Yellow < 60.0%

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



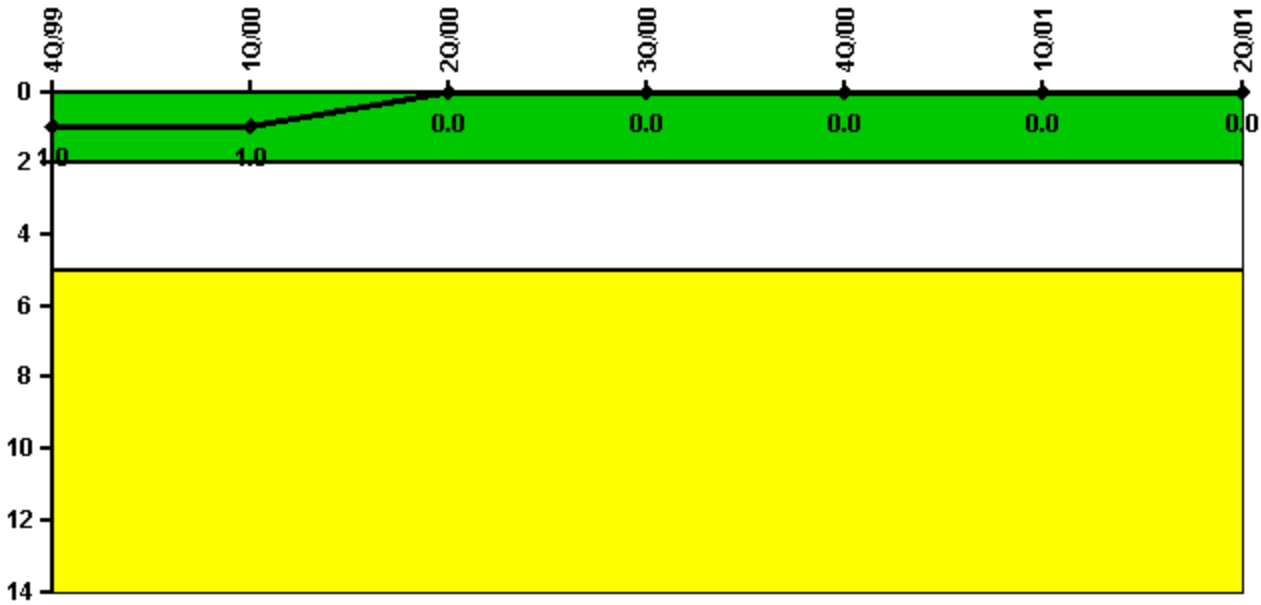
Thresholds: White < 94.0% Yellow < 90.0%

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



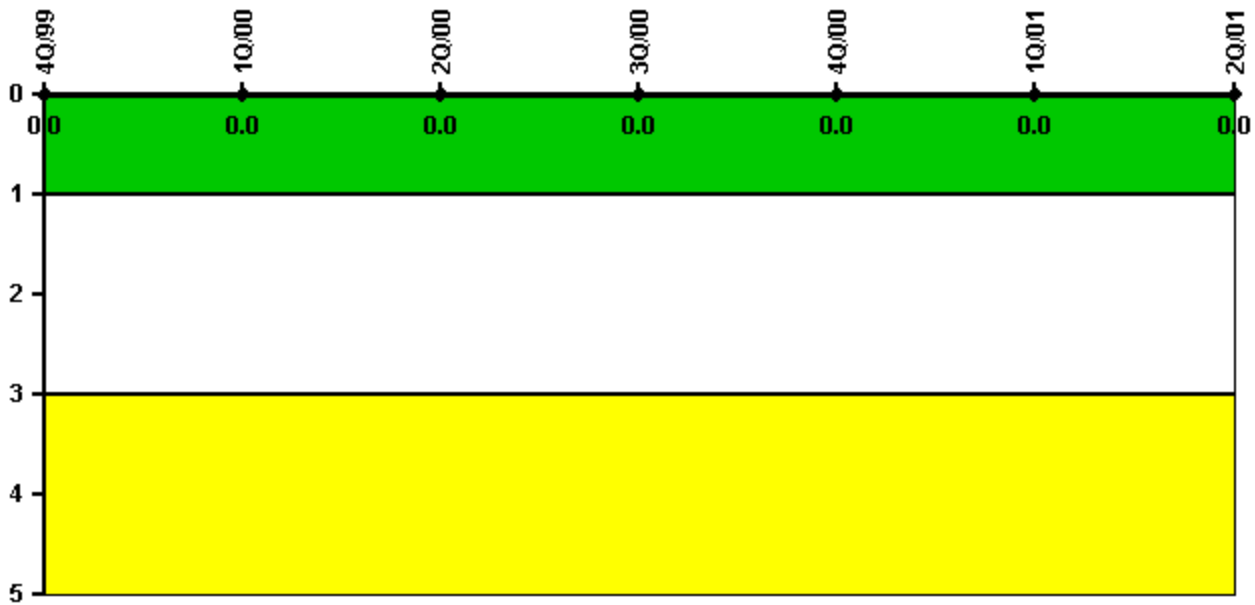
Thresholds: White > 2.0 Yellow > 5.0

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



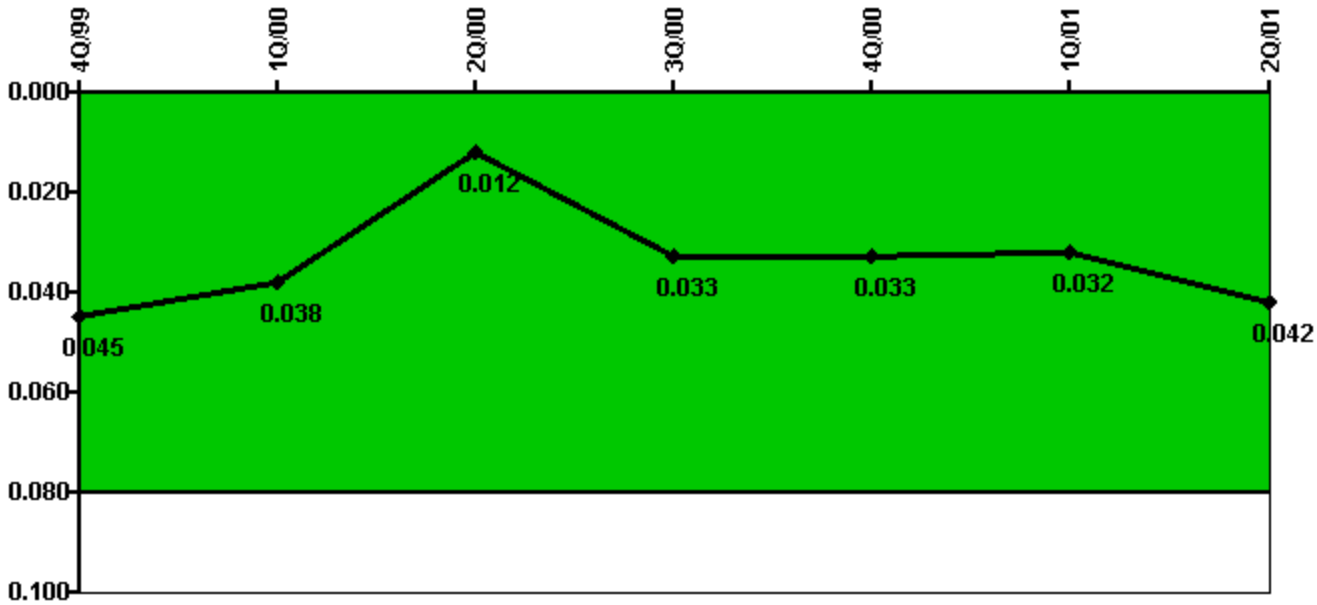
Thresholds: White > 1.0 Yellow > 3.0

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

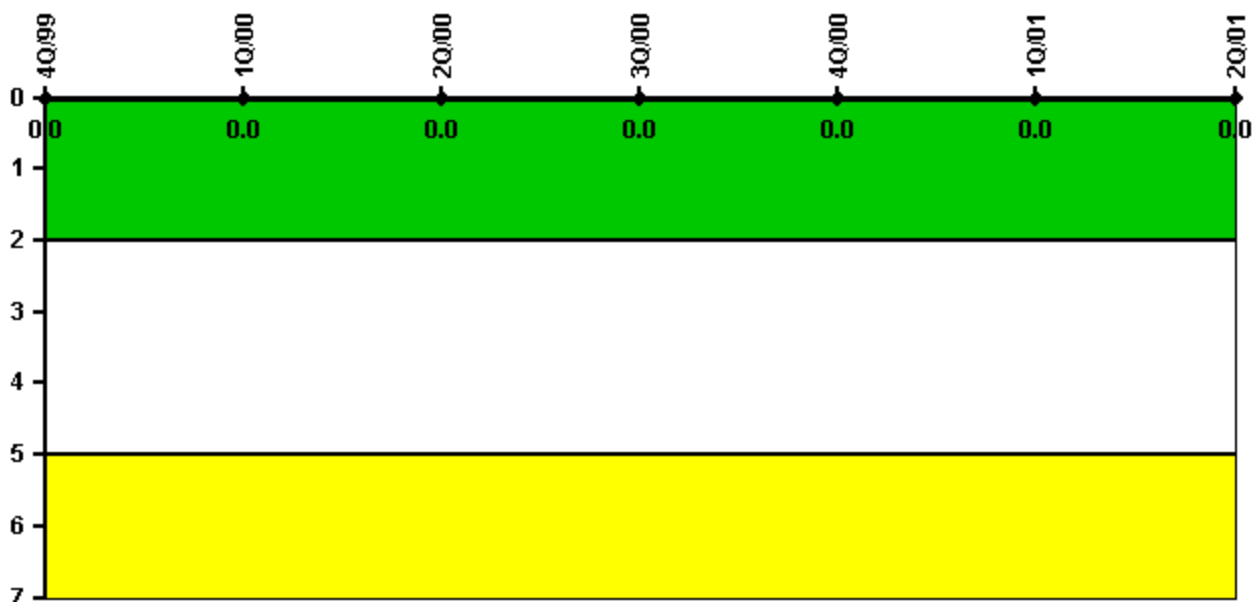
Notes

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



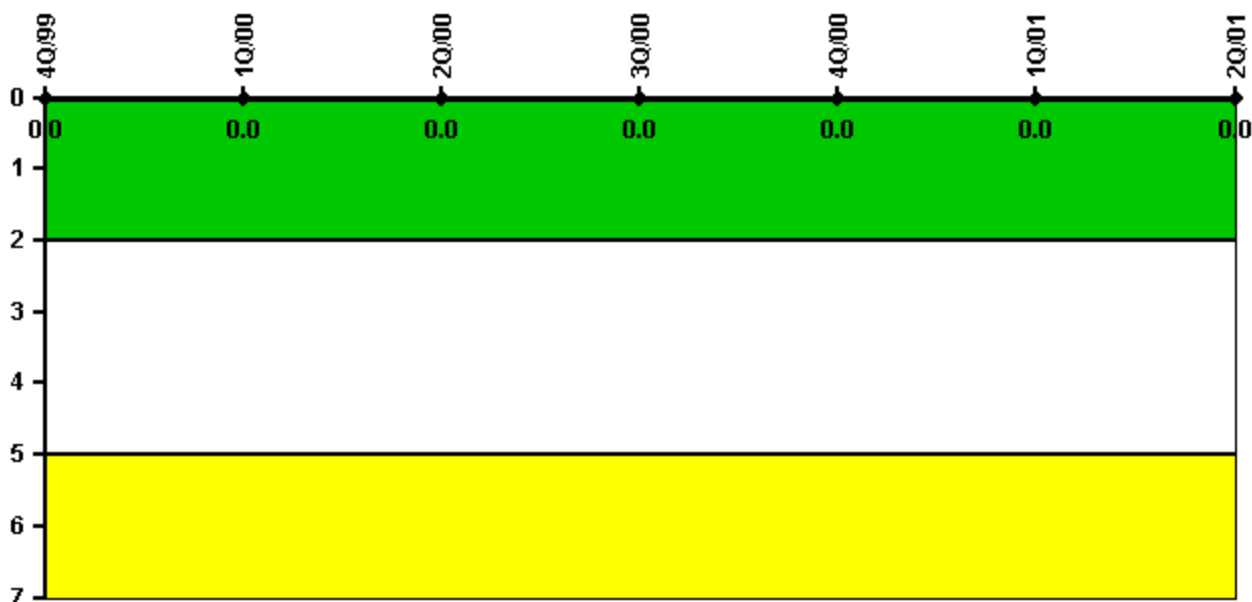
Thresholds: White > 2.0 Yellow > 5.0

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](#)

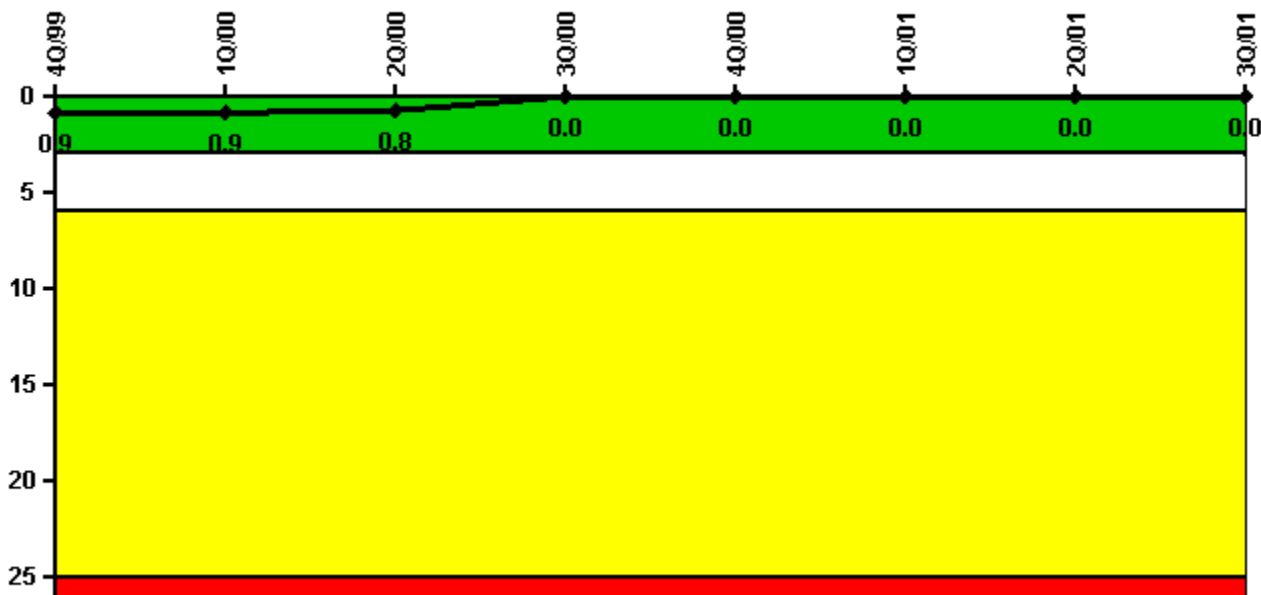
Last Modified: March 27, 2002

Surry 2

3Q/2001 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



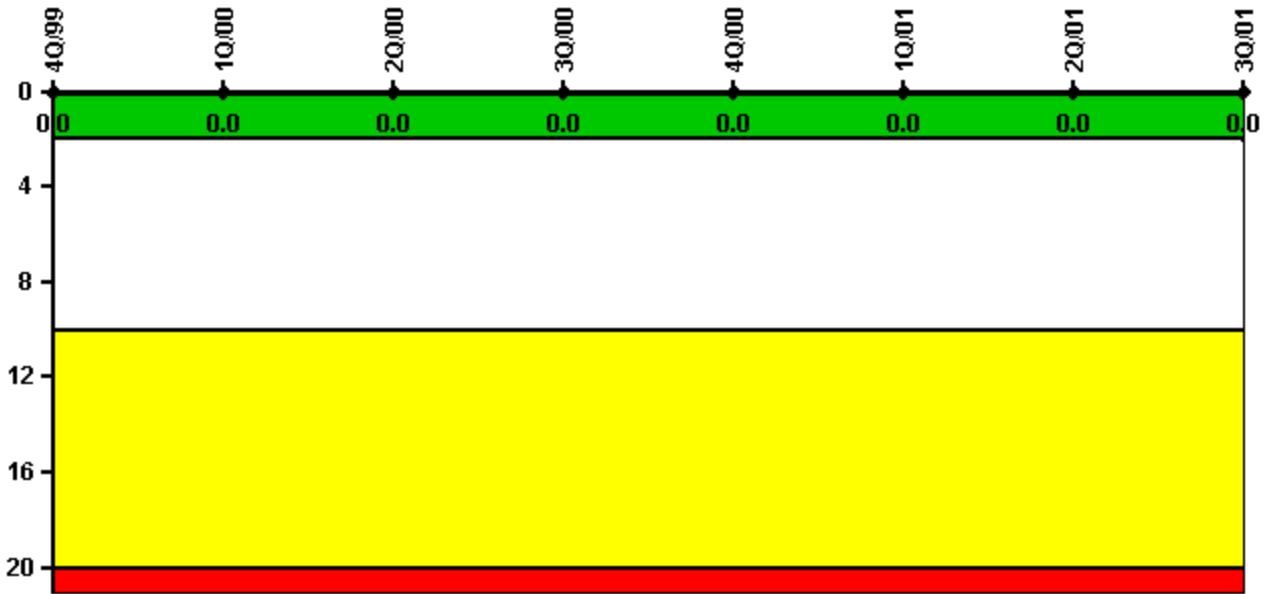
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2184.0	2183.0	2208.0	1484.7	2122.9	1947.6	2208.0
Indicator value	0.9	0.9	0.8	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



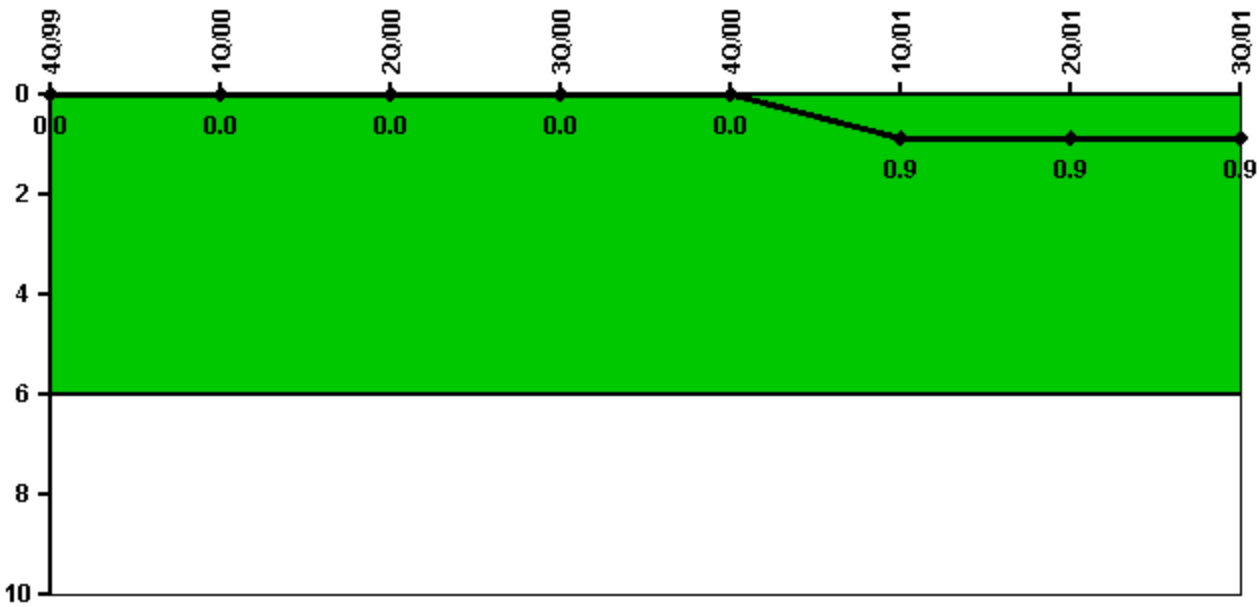
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/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



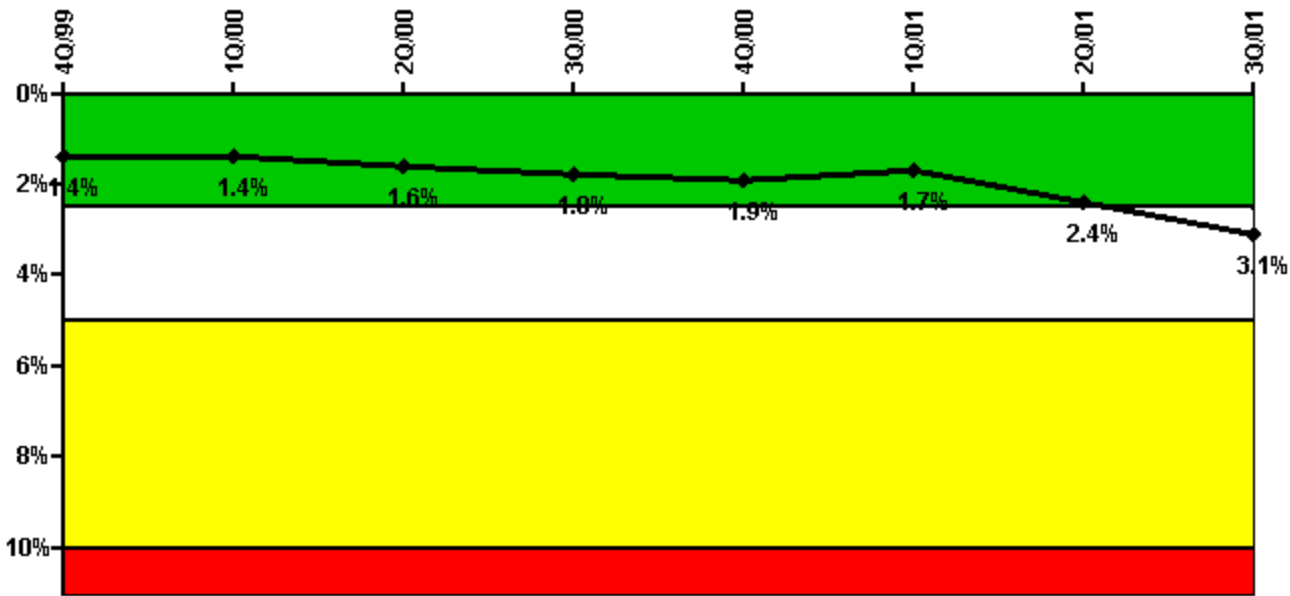
Thresholds: White > 6.0

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	0	0	0	0	1.0	0	0
Critical hours	2209.0	2184.0	2183.0	2208.0	1484.7	2122.9	1947.6	2208.0
Indicator value	0	0	0	0	0	0.9	0.9	0.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	12.15	15.00	22.60	71.39	15.07	33.44	10.63	1.20
Unplanned unavailable hours	0	0	0	18.94	0	0	0	22.32
Fault exposure hours	0	0	0	0	0	0	0	336.03
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2013.20	2160.00	1988.57	2208.00
Train 2								
Planned unavailable hours	41.05	25.68	41.06	33.76	19.60	25.95	15.77	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	2013.20	2160.00	1988.57	2208.00
Indicator value	1.4%	1.4%	1.6%	1.8%	1.9%	1.7%	2.4%	3.1%

Licensee Comments:

3Q/01: An evaluation determined fault exposure and unplanned unavailable hours required correction for #3 EDG (Train 2) for April. Data was corrected. Also, an electrical breaker for #2 EDG (Train 1) failed to operate properly in September. Fault exposure hours were calculated based on the last known successful breaker operation in accordance with NEI 99-02. This results in a change of color to white for this performance indicator.

Safety System Unavailability, High Pressure Injection System (HPSI)



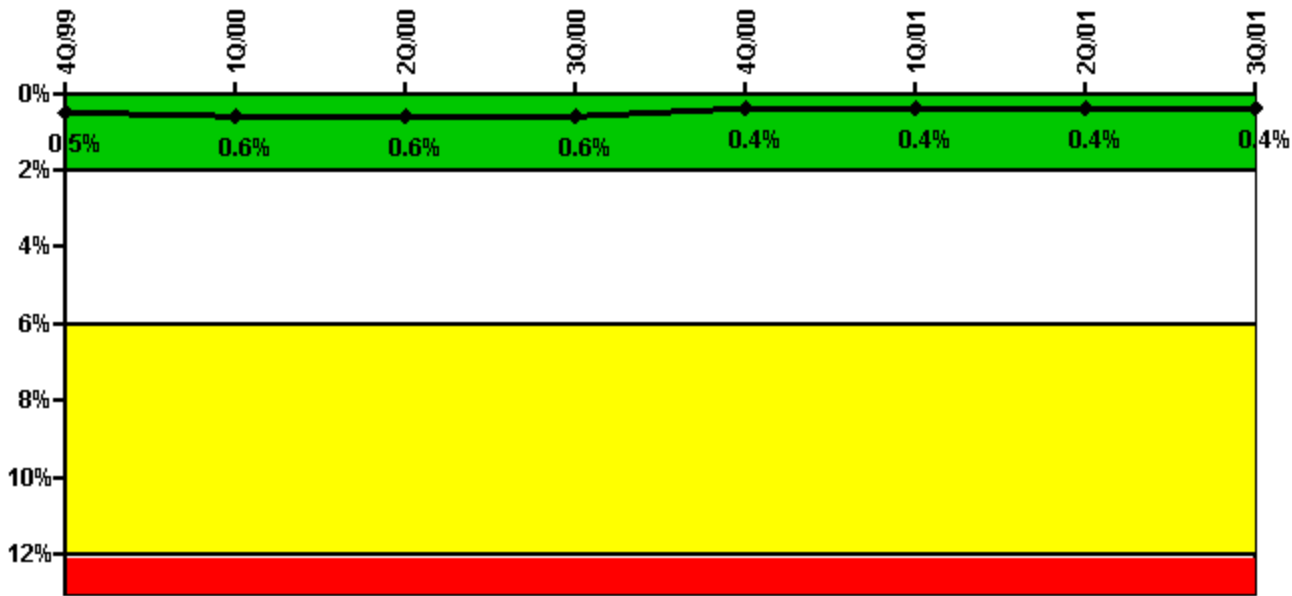
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	6.20	0	0	2.07	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	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00
Train 2								
Planned unavailable hours	0	0	0	0.92	3.00	0.70	3.10	2.00
Unplanned unavailable hours	0	0	0	0	0	0	0	4.80
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00
Indicator value	0%	0%	0%	0%	0%	0%	0%	0%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



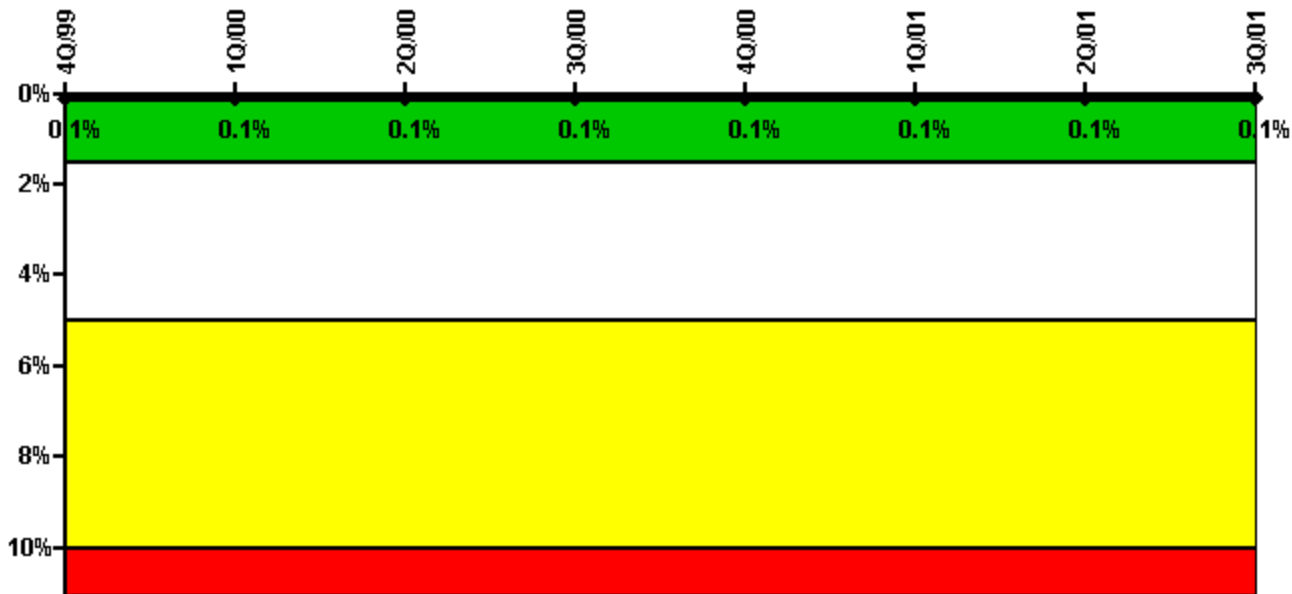
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	1.20	1.30	10.90	0.85	9.90	4.30	1.10	10.60
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	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00
Train 2								
Planned unavailable hours	5.10	10.20	11.30	1.48	0	16.50	1.40	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	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00
Train 3								
Planned unavailable hours	11.30	20.90	1.50	5.48	2.30	1.70	9.50	2.10
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	2209.00	2184.00	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00
Indicator value	0.5%	0.6%	0.6%	0.6%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

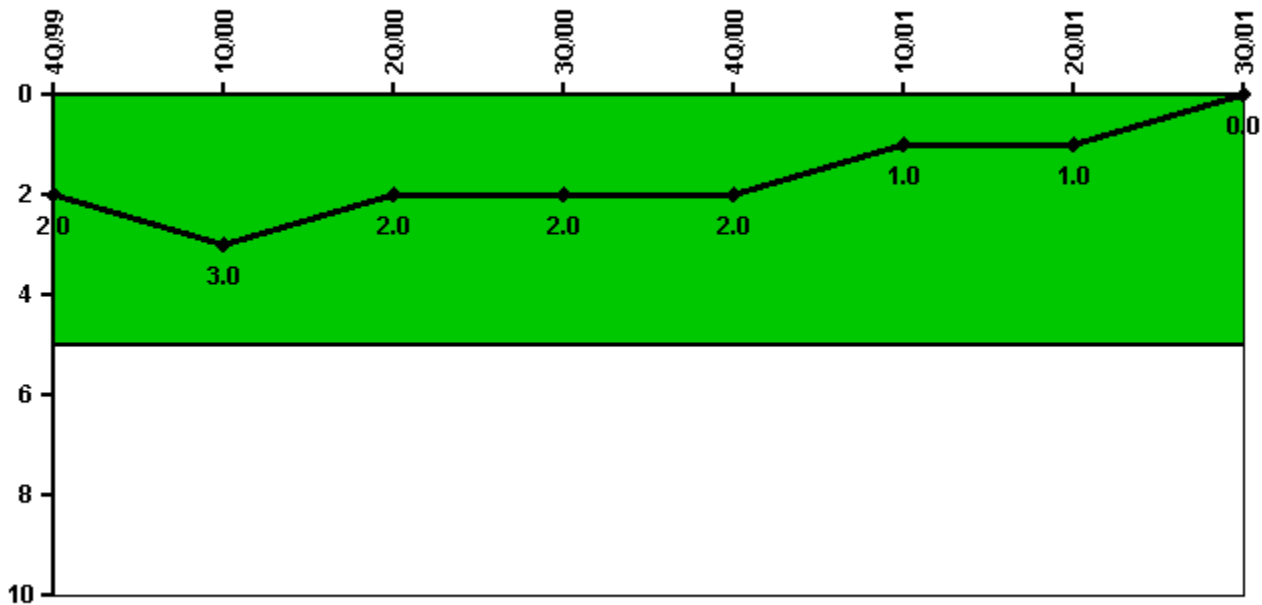


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	0	0.10	0.60	0.05	0	11.30	0.10	1.10
Unplanned unavailable hours	0	0	1.80	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00
Train 2								
Planned unavailable hours	0	8.40	1.70	0.44	0	2.80	0.70	10.30
Unplanned unavailable hours	0	0	1.70	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00
Train 3								
Planned unavailable hours	0	0	0	9.68	1.65	0	0.30	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2013.20	2160.00	1993.40	2208.00
Train 4								
Planned unavailable hours	0	0	0	9.60	0.06	0	0.40	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	2209.00	2184.00	2183.00	2208.00	2013.20	2160.00	1993.40	2208.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Safety System Functional Failures (PWR)



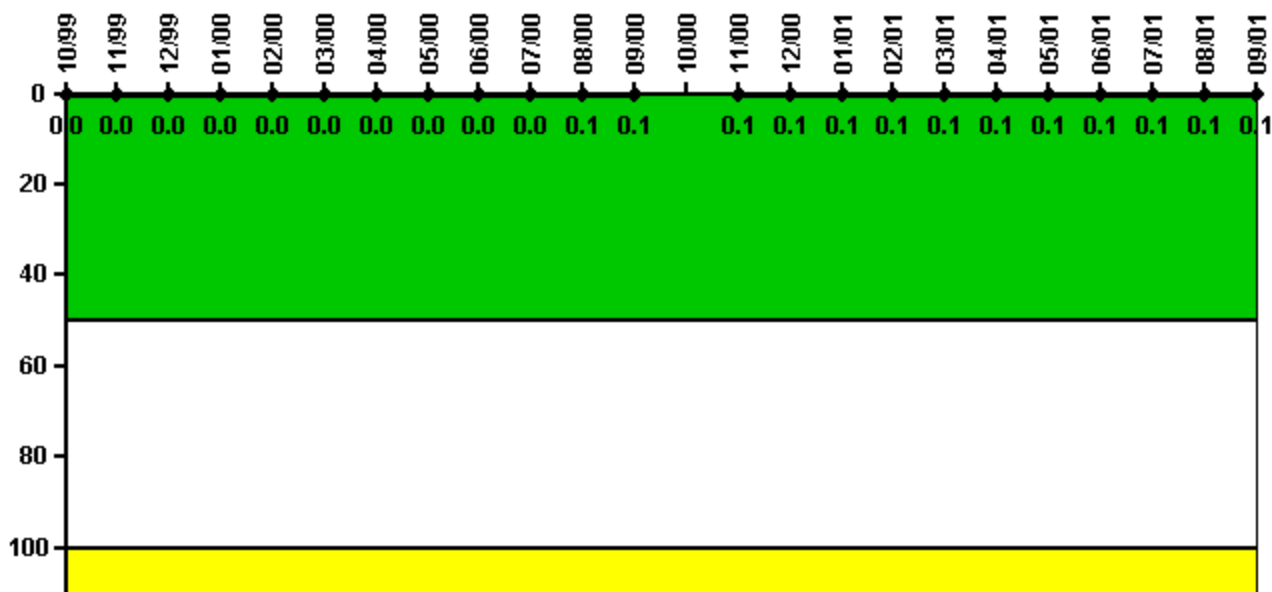
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

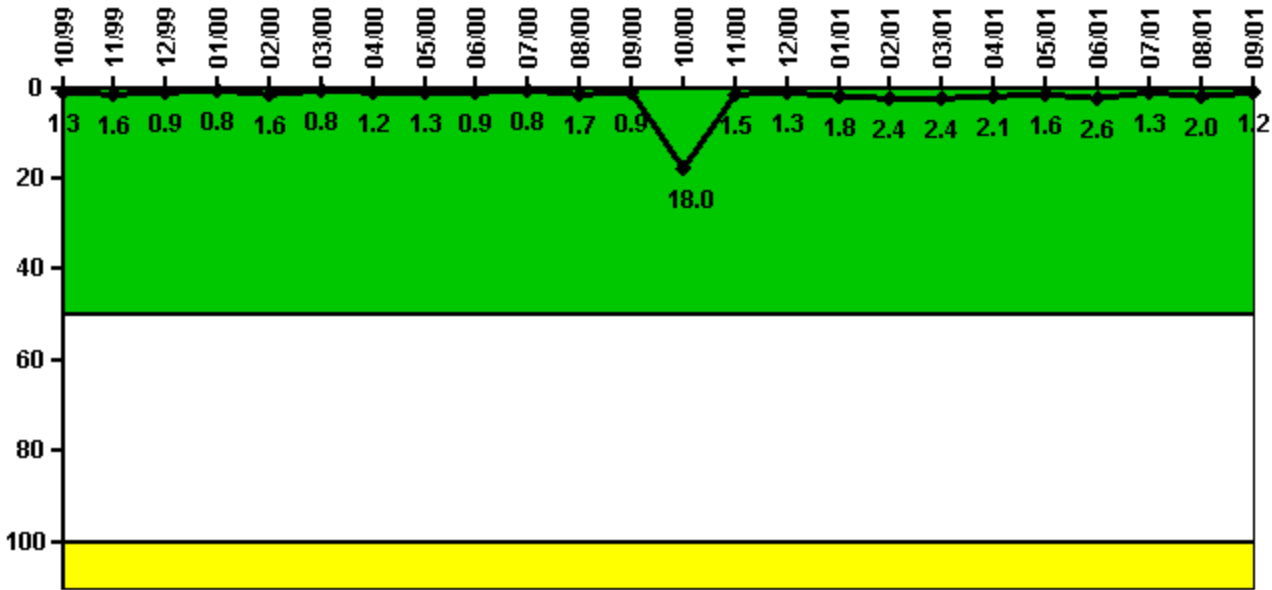
Notes

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	0.000486	0.000404	0.000454	0.000380	0.000410	0.000436	0.000430	0.000441	0.000475	0.000453	0.000738	0.000552
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0.1	0.1

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum activity	N/A	0.000842	0.000834	0.000951	0.000951	0.000914	0.001100	0.000977	0.001190	0.001180	0.001020	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	N/A	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

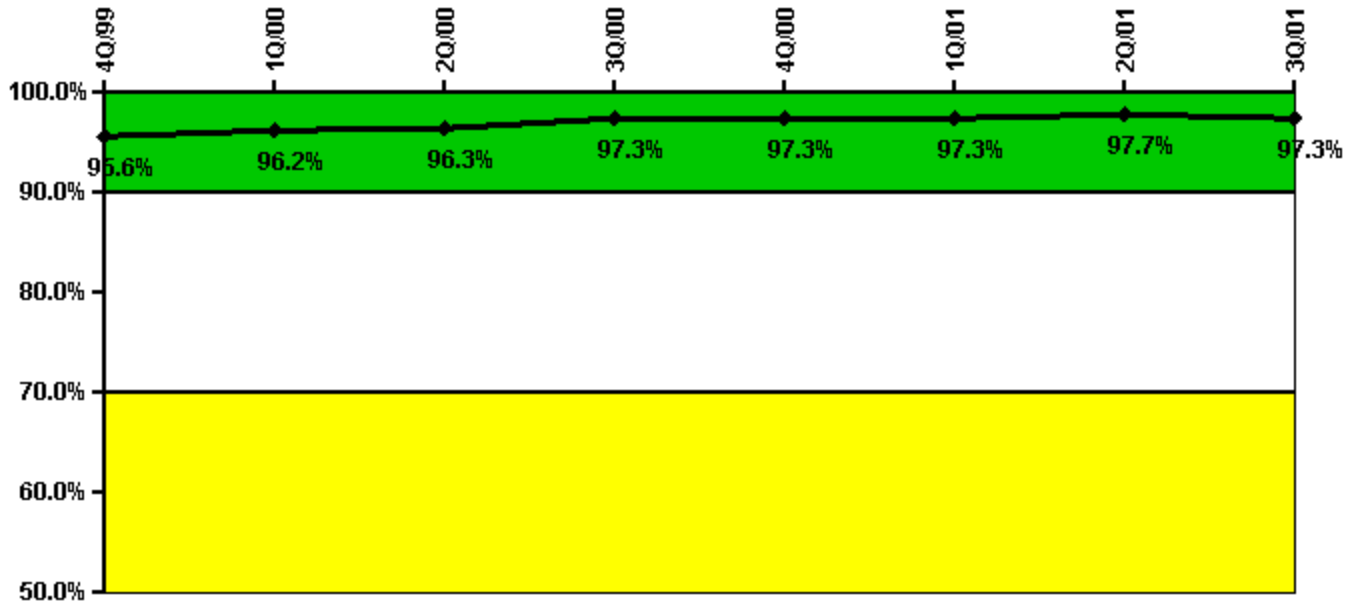
Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.130	0.160	0.090	0.080	0.160	0.080	0.120	0.130	0.090	0.080	0.170	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.6	0.9	0.8	1.6	0.8	1.2	1.3	0.9	0.8	1.7	0.9

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum leakage	1.800	0.150	0.130	0.180	0.240	0.240	0.210	0.160	0.260	0.130	0.200	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	18.0	1.5	1.3	1.8	2.4	2.4	2.1	1.6	2.6	1.3	2.0	1.2

Licensee Comments: none

Drill/Exercise Performance



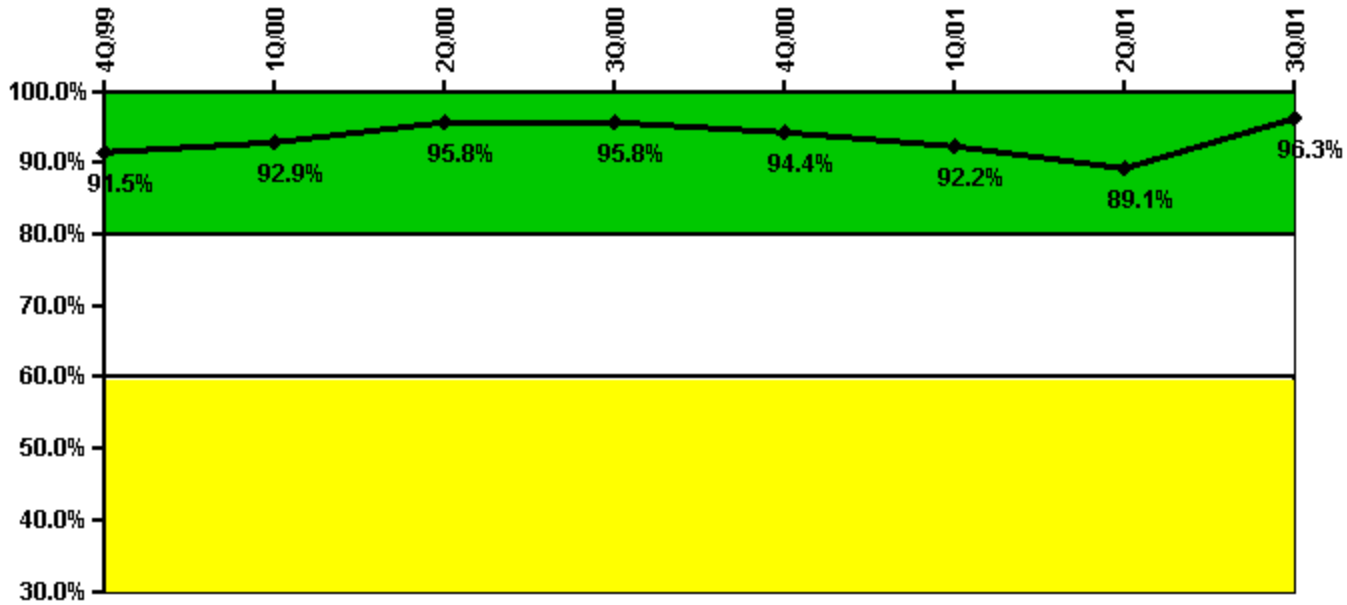
Thresholds: White < 90.0% Yellow < 70.0%

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



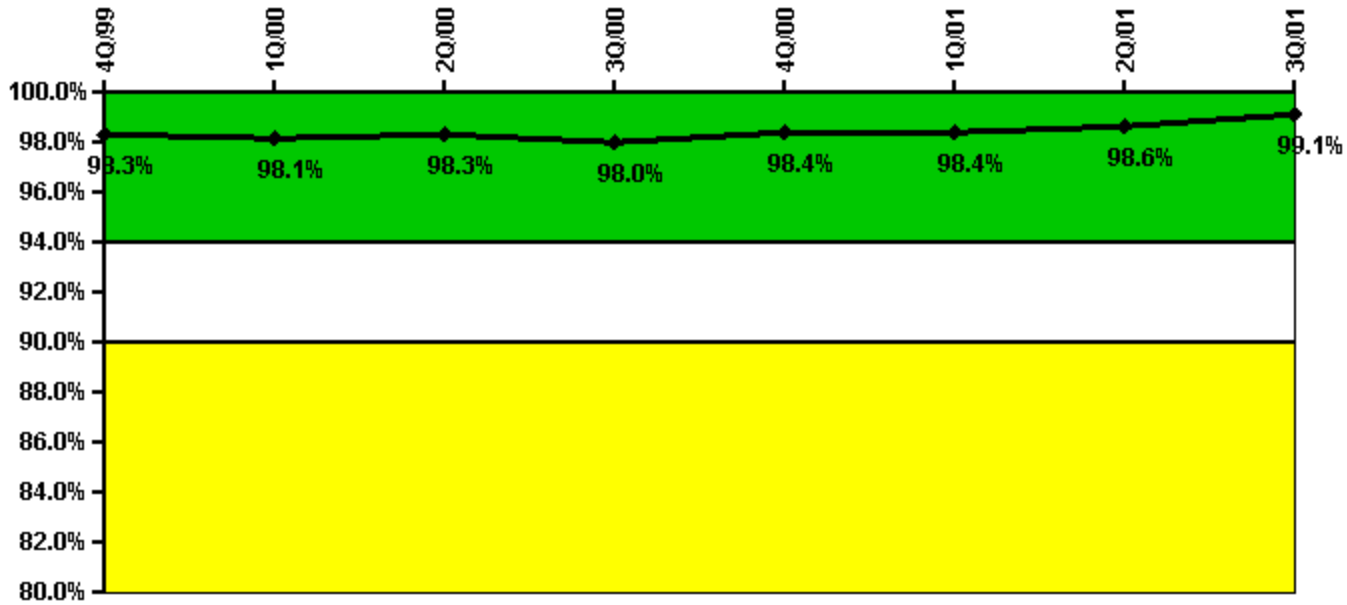
Thresholds: White < 80.0% Yellow < 60.0%

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



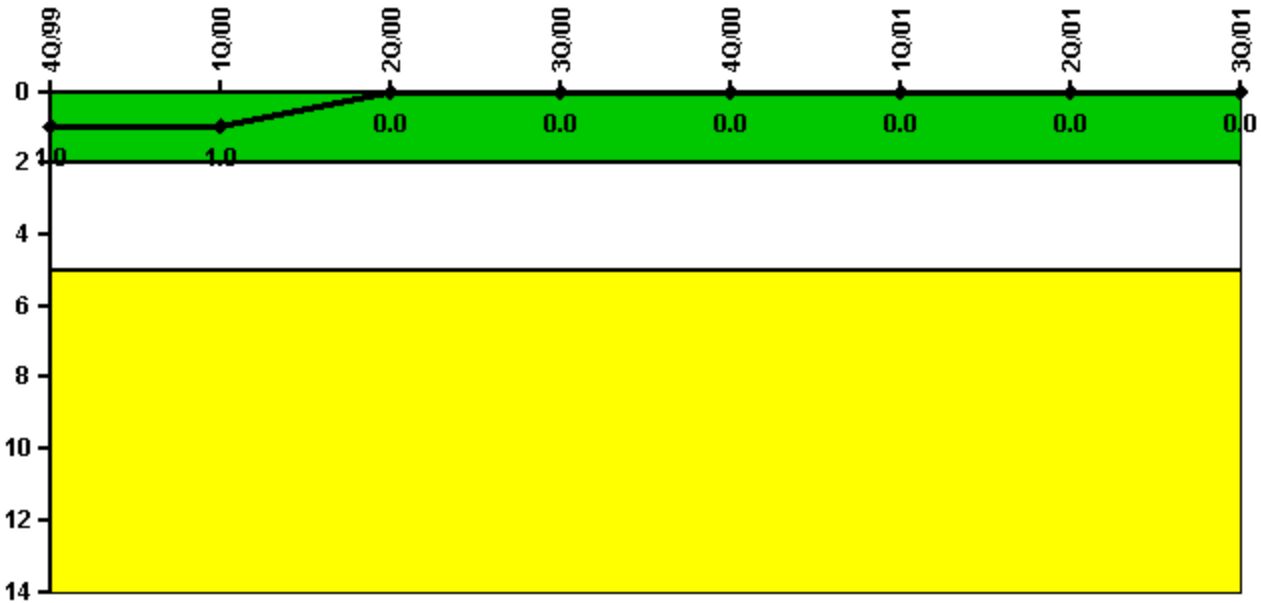
Thresholds: White < 94.0% Yellow < 90.0%

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



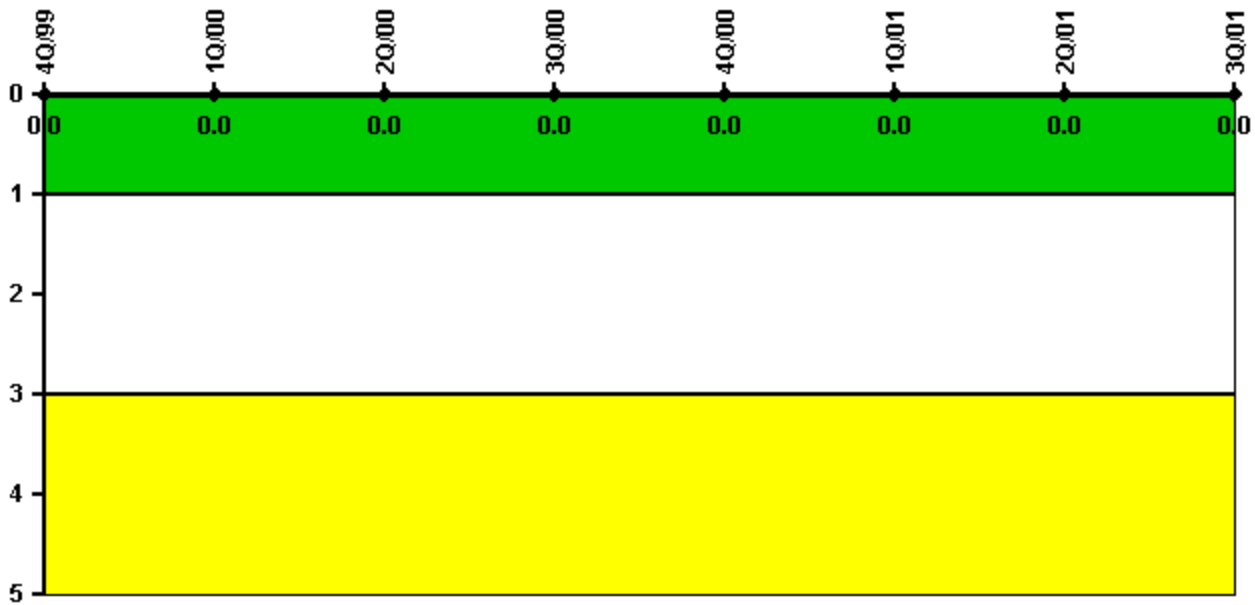
Thresholds: White > 2.0 Yellow > 5.0

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



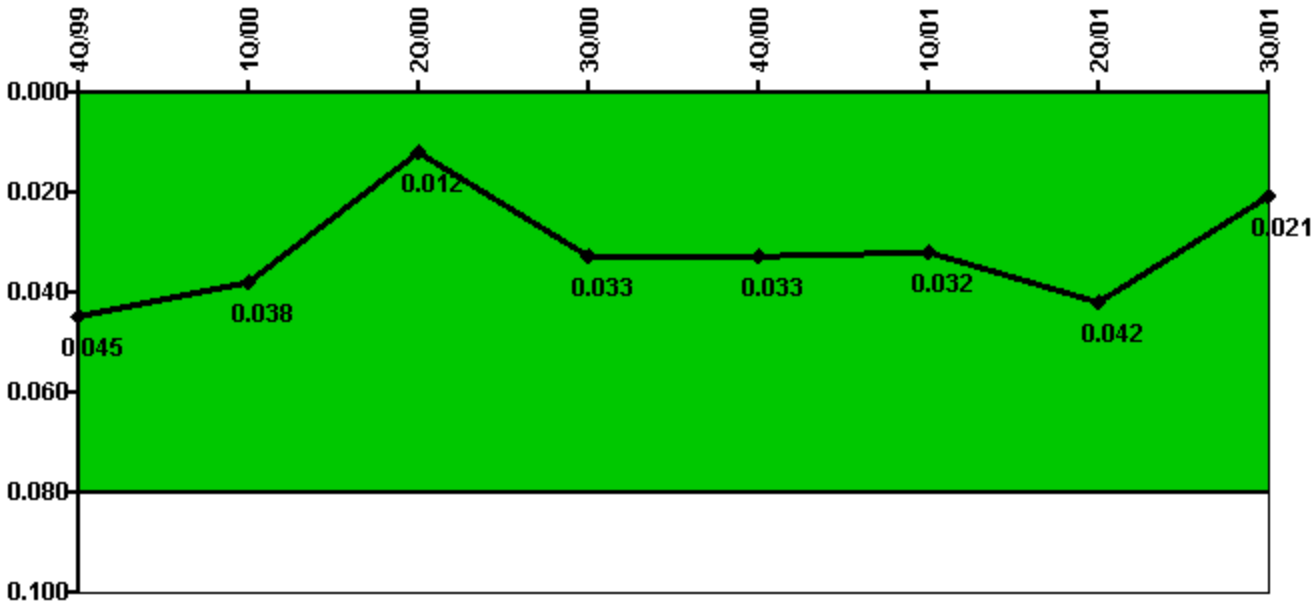
Thresholds: White > 1.0 Yellow > 3.0

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

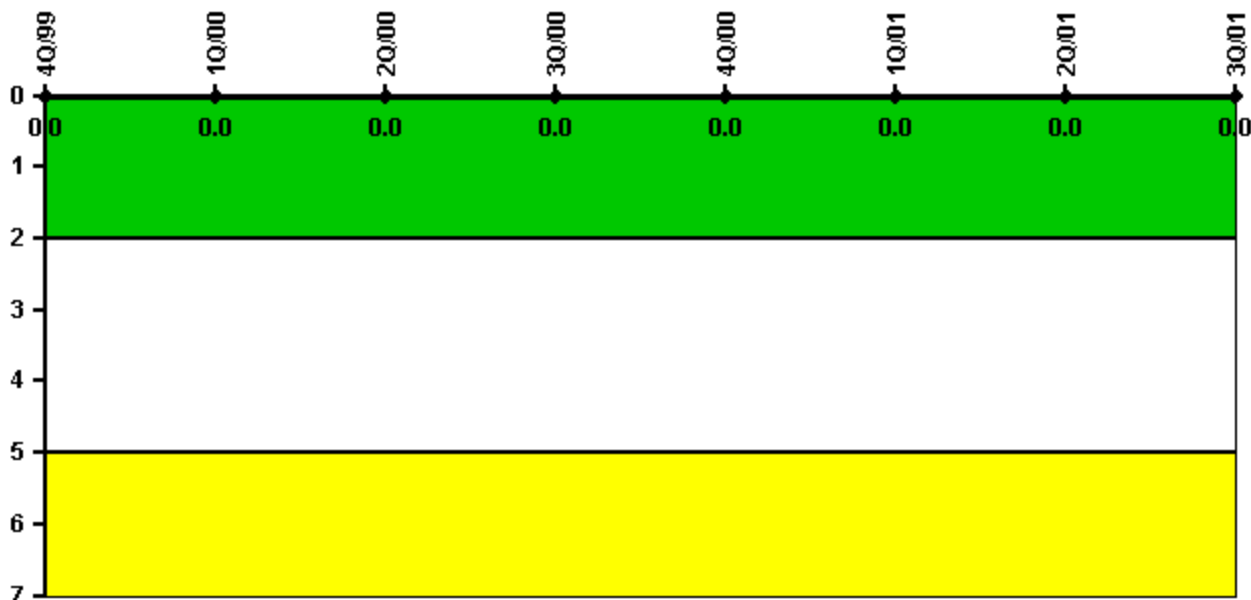
Notes

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



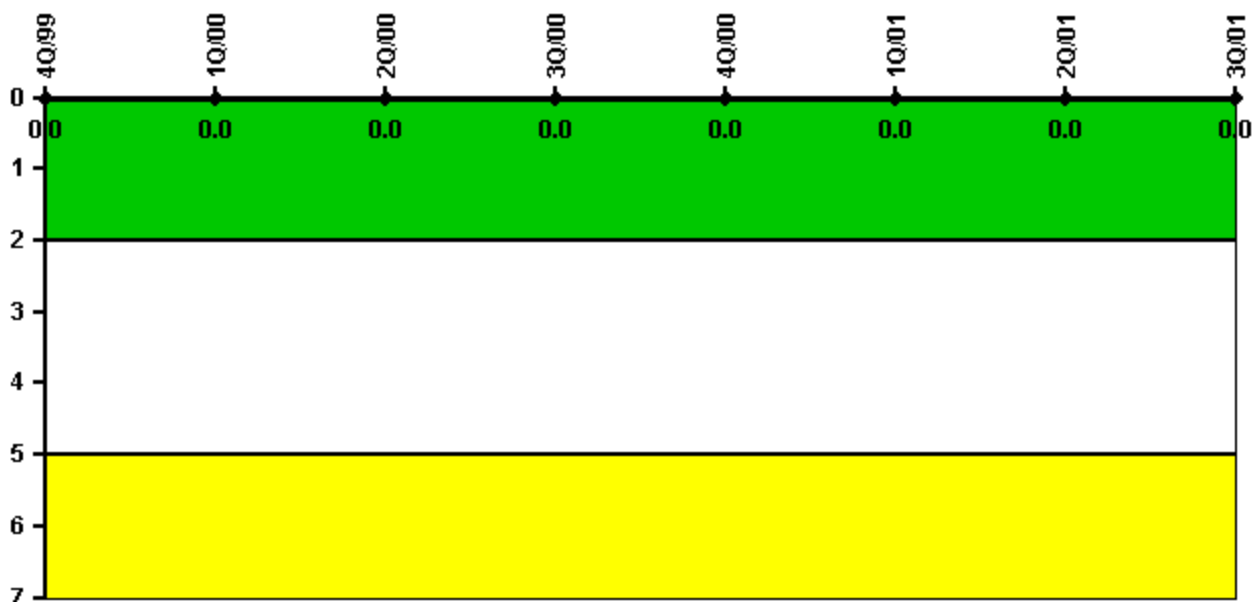
Thresholds: White > 2.0 Yellow > 5.0

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](#)

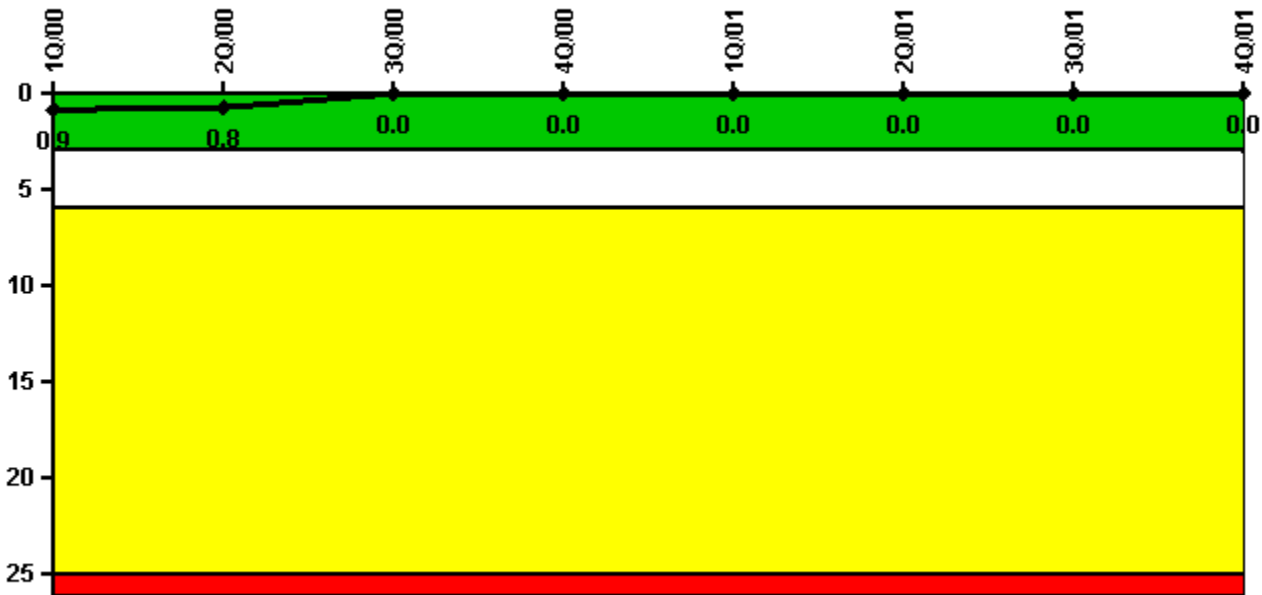
Last Modified: March 26, 2002

Surry 2

4Q/2001 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



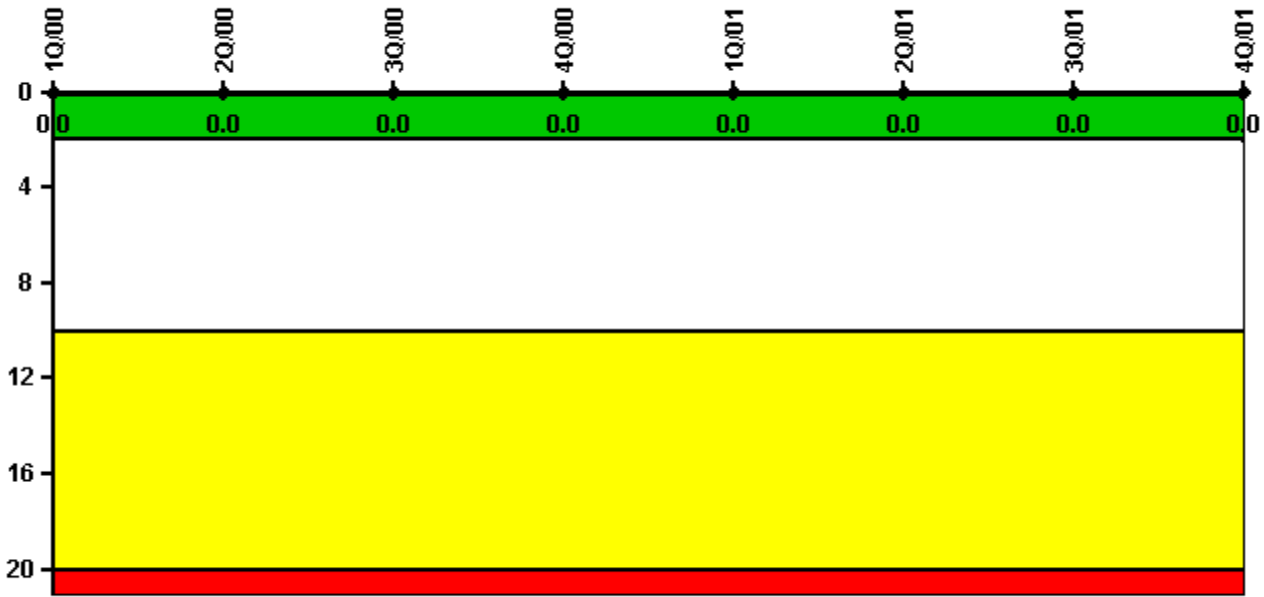
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	2183.0	2208.0	1484.7	2122.9	1947.6	2208.0	1950.6
Indicator value	0.9	0.8	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



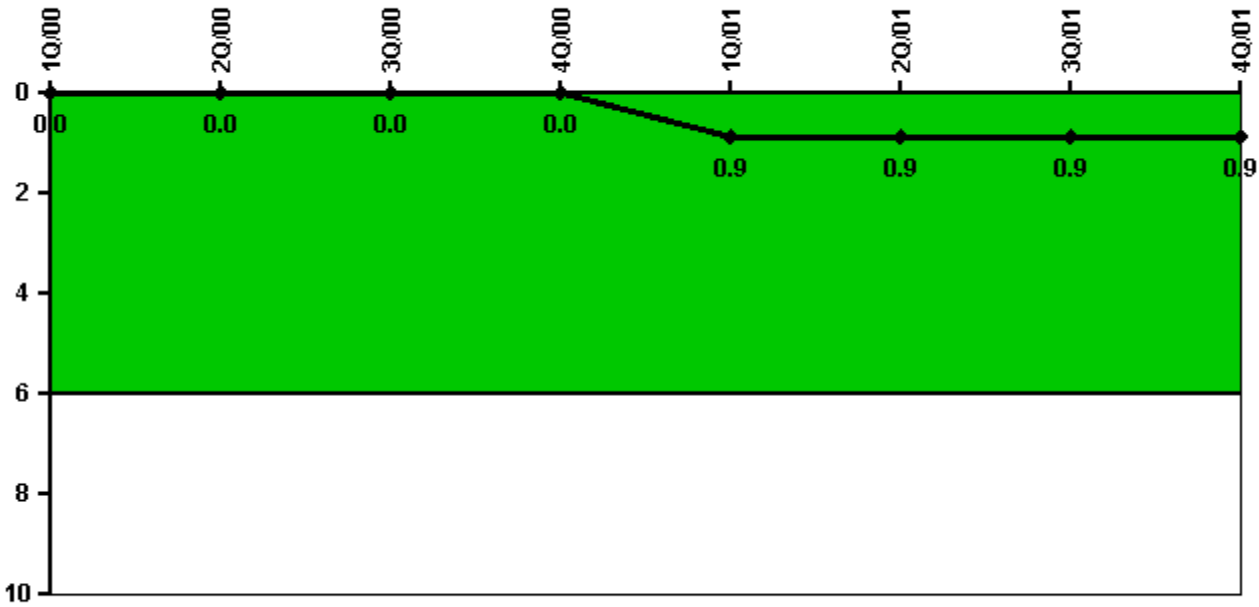
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



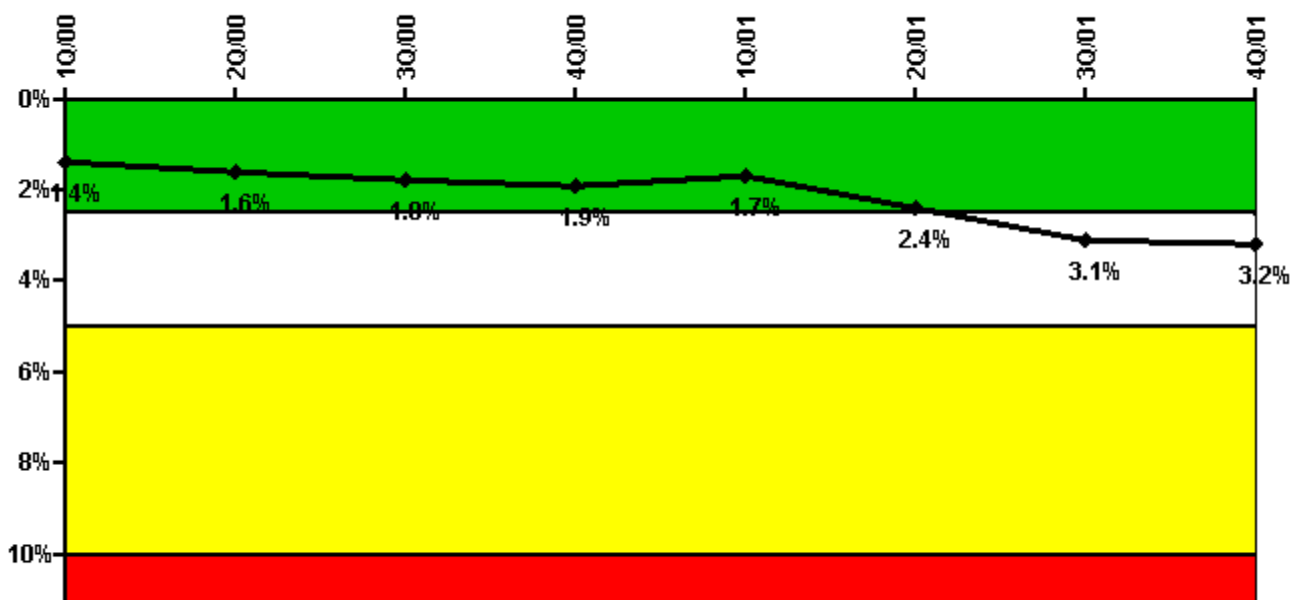
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2184.0	2183.0	2208.0	1484.7	2122.9	1947.6	2208.0	1950.6
Indicator value	0	0	0	0	0.9	0.9	0.9	0.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



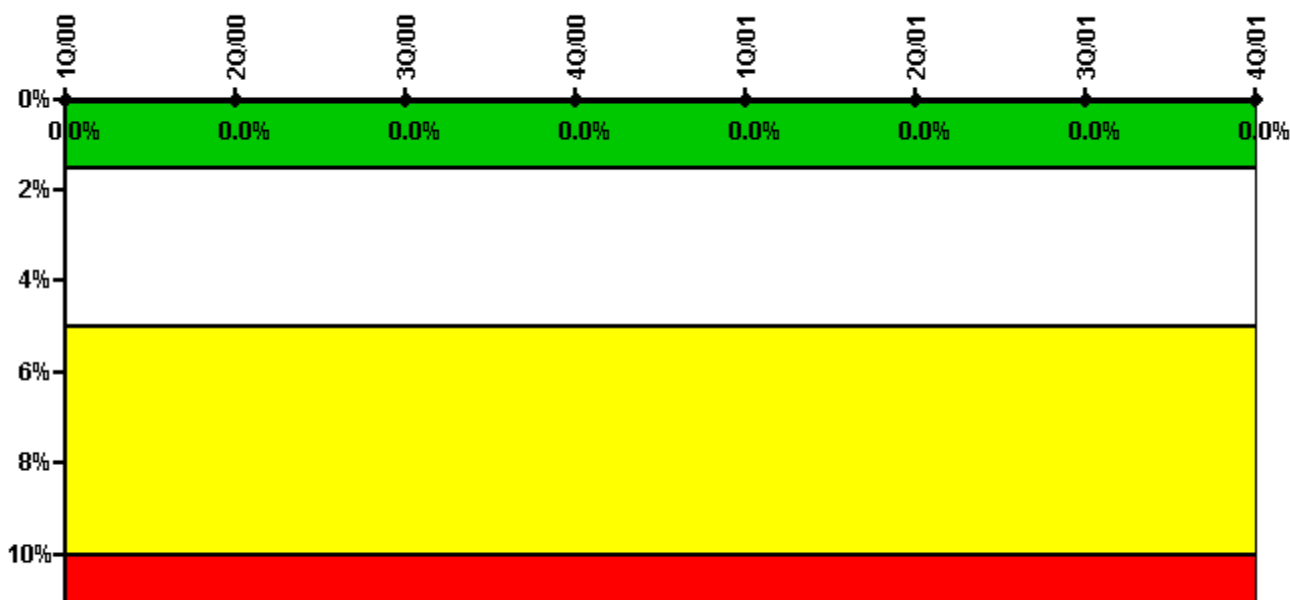
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	15.00	22.60	71.39	15.07	33.44	10.63	1.20	88.05
Unplanned unavailable hours	0	0	18.94	0	0	0	22.32	133.15
Fault exposure hours	0	0	0	0	0	0	336.03	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2013.20	2160.00	1988.57	2208.00	2003.98
Train 2								
Planned unavailable hours	25.68	41.06	33.76	19.60	25.95	15.77	16.18	36.52
Unplanned unavailable hours	0	50.20	0	10.30	0	131.35	0.33	0.10
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	2013.20	2160.00	1988.57	2208.00	2003.98
Indicator value	1.4%	1.6%	1.8%	1.9%	1.7%	2.4%	3.1%	3.2%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



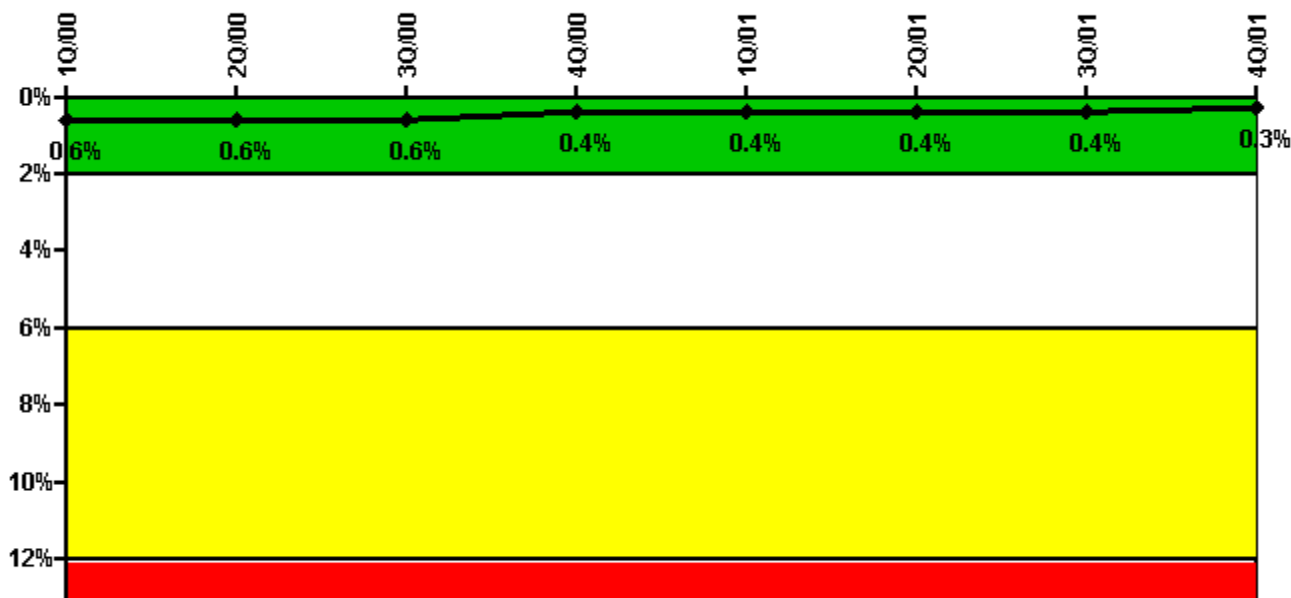
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	0	0	2.07	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	2184.00	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00	2006.00
Train 2								
Planned unavailable hours	0	0	0.92	3.00	0.70	3.10	2.00	0.50
Unplanned unavailable hours	0	0	0	0	0	0	4.80	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00	2006.00
Indicator value	0%	0%	0%	0%	0%	0%	0%	0%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



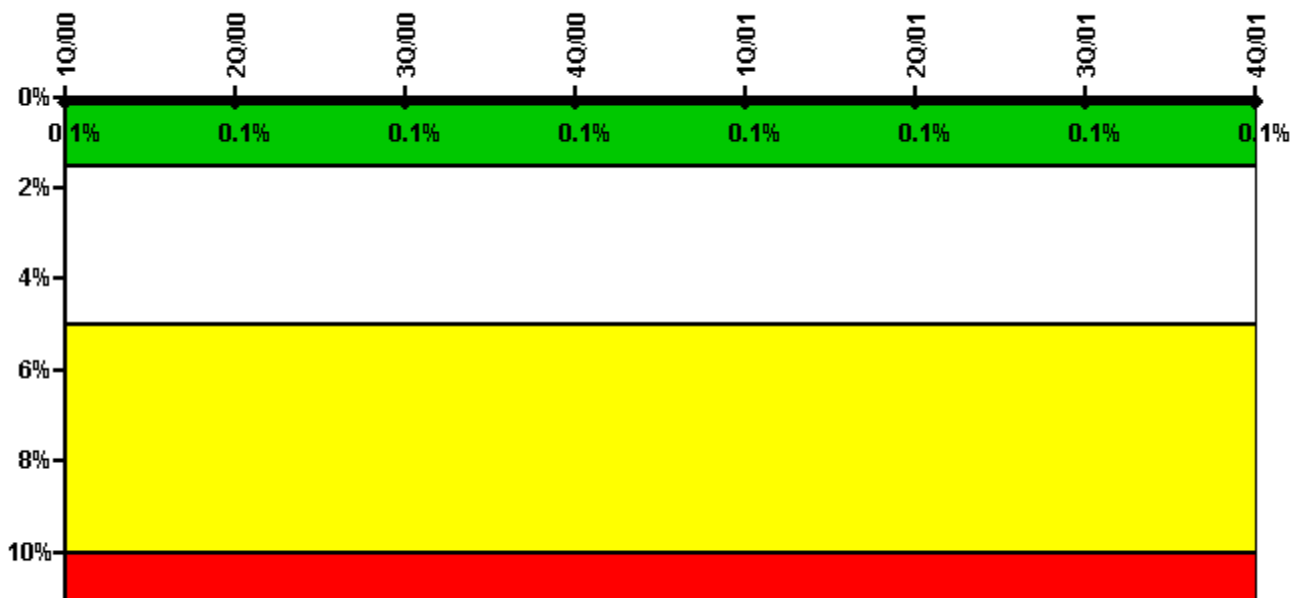
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	1.30	10.90	0.85	9.90	4.30	1.10	10.60	1.30
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	2184.00	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00	2006.00
Train 2								
Planned unavailable hours	10.20	11.30	1.48	0	16.50	1.40	1.40	1.50
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00	2006.00
Train 3								
Planned unavailable hours	20.90	1.50	5.48	2.30	1.70	9.50	2.10	1.30
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	2184.00	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00	2006.00
Indicator value	0.6%	0.6%	0.6%	0.4%	0.4%	0.4%	0.4%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



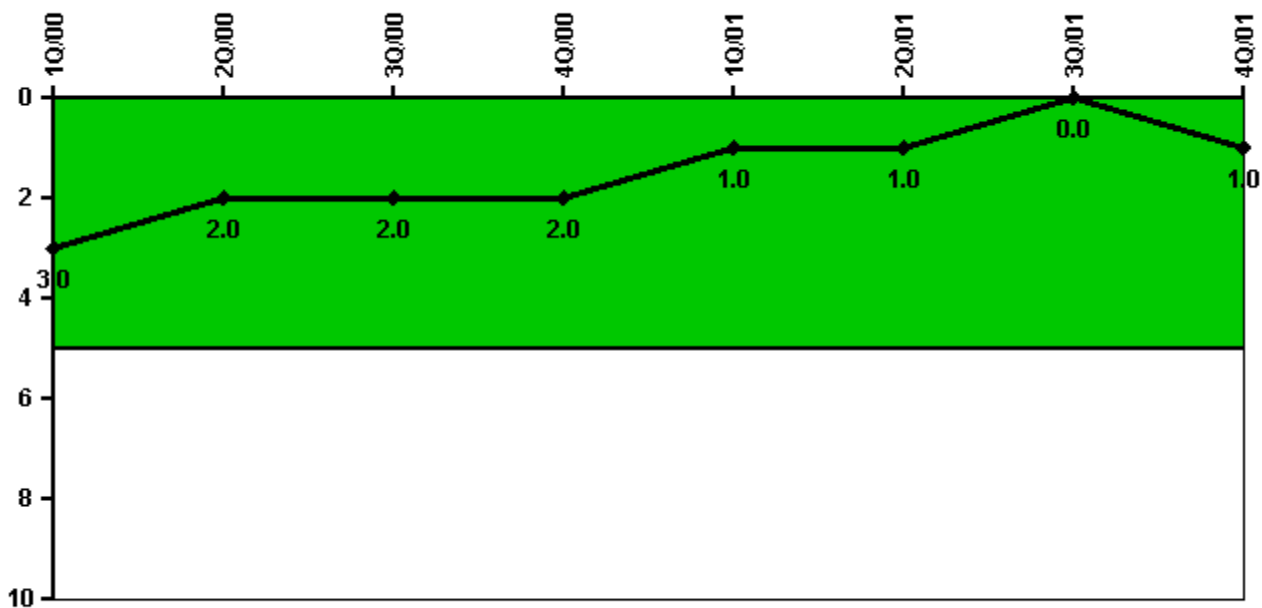
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	0.10	0.60	0.05	0	11.30	0.10	1.10	0
Unplanned unavailable hours	0	1.80	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00	2209.00
Train 2								
Planned unavailable hours	8.40	1.70	0.44	0	2.80	0.70	10.30	0.60
Unplanned unavailable hours	0	1.70	0	0	0	0	0	0
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	1557.80	2160.00	1993.40	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	9.68	1.65	0	0.30	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	2013.20	2160.00	1993.40	2208.00	2209.00
Train 4								
Planned unavailable hours	0	0	9.60	0.06	0	0.40	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	2184.00	2183.00	2208.00	2013.20	2160.00	1993.40	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

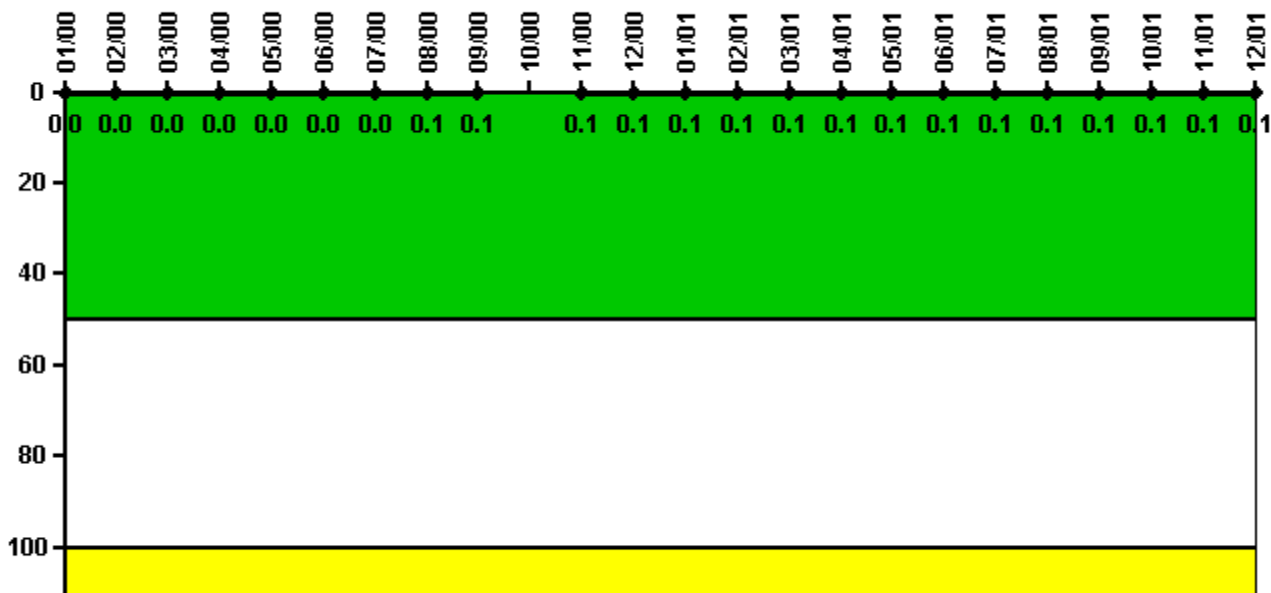
Notes

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

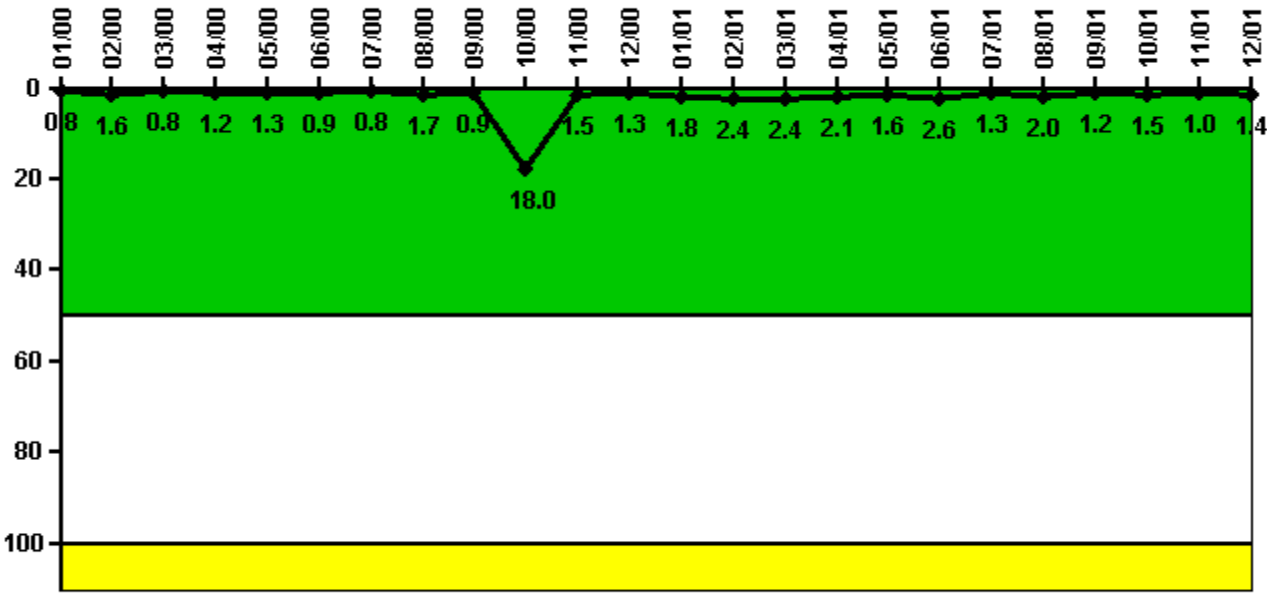
Notes

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	0.000380	0.000410	0.000436	0.000430	0.000441	0.000475	0.000453	0.000738	0.000552	N/A	0.000842	0.000834
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0.1	0.1	N/A	0.1	0.1

Reactor Coolant System Activity	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum activity	0.000951	0.000951	0.000914	0.001100	0.000977	0.001190	0.001180	0.001020	0.001060	0.001100	0.001140	0.001190
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

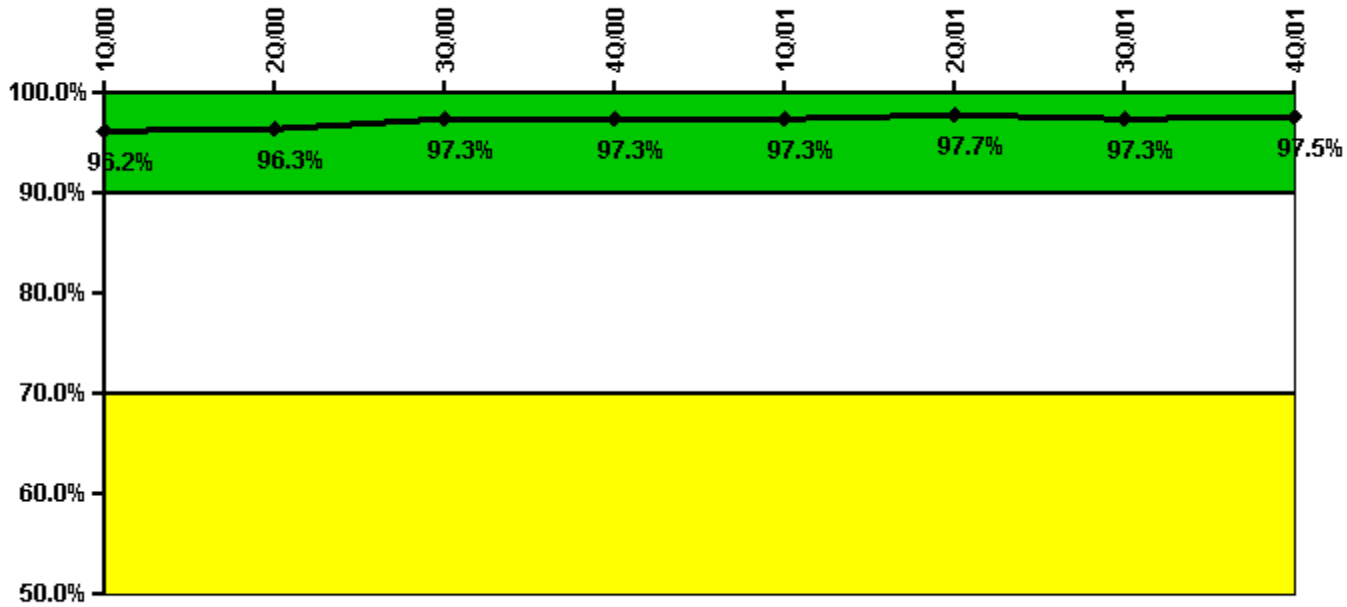
Notes

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	0.080	0.160	0.080	0.120	0.130	0.090	0.080	0.170	0.090	1.800	0.150	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	0.8	1.6	0.8	1.2	1.3	0.9	0.8	1.7	0.9	18.0	1.5	1.3

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	0.180	0.240	0.240	0.210	0.160	0.260	0.130	0.200	0.120	0.150	0.100	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	2.4	2.4	2.1	1.6	2.6	1.3	2.0	1.2	1.5	1.0	1.4

Licensee Comments: none

Drill/Exercise Performance



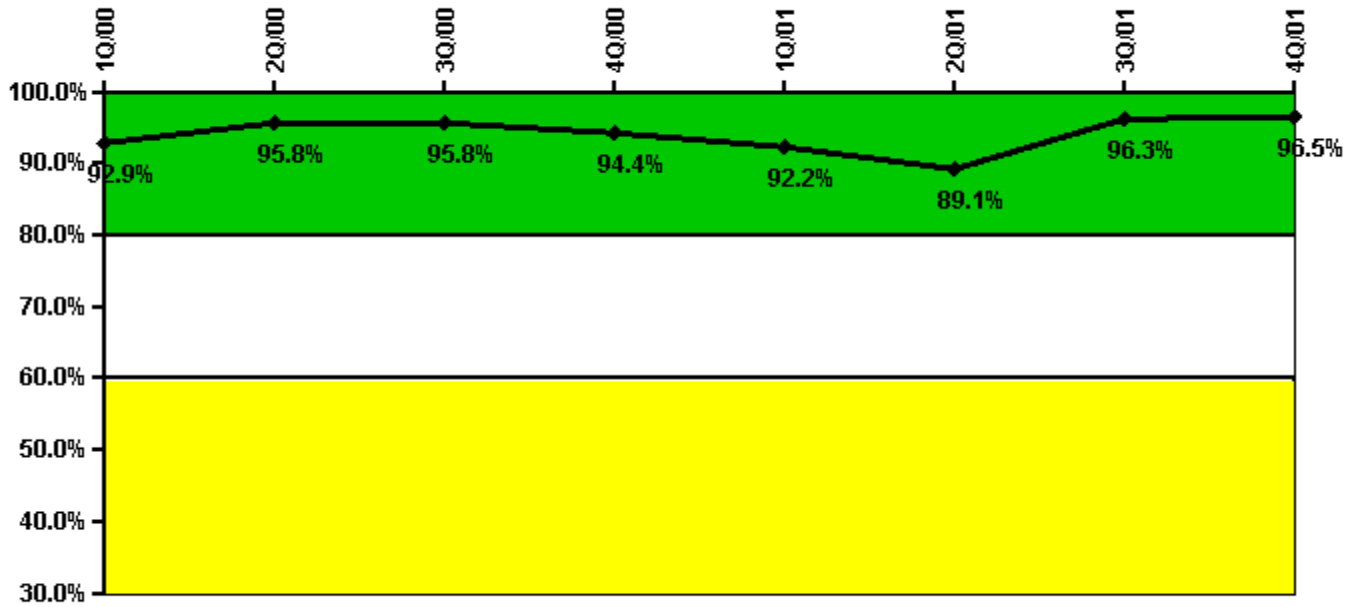
Thresholds: White < 90.0% Yellow < 70.0%

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



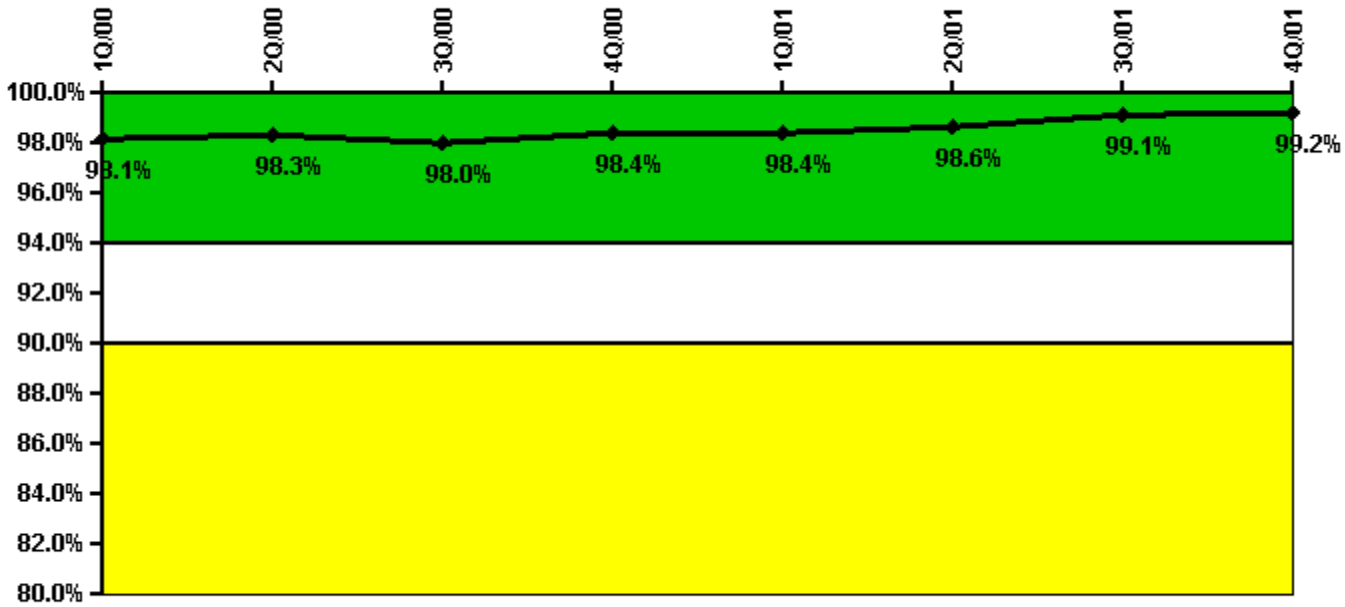
Thresholds: White < 80.0% Yellow < 60.0%

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



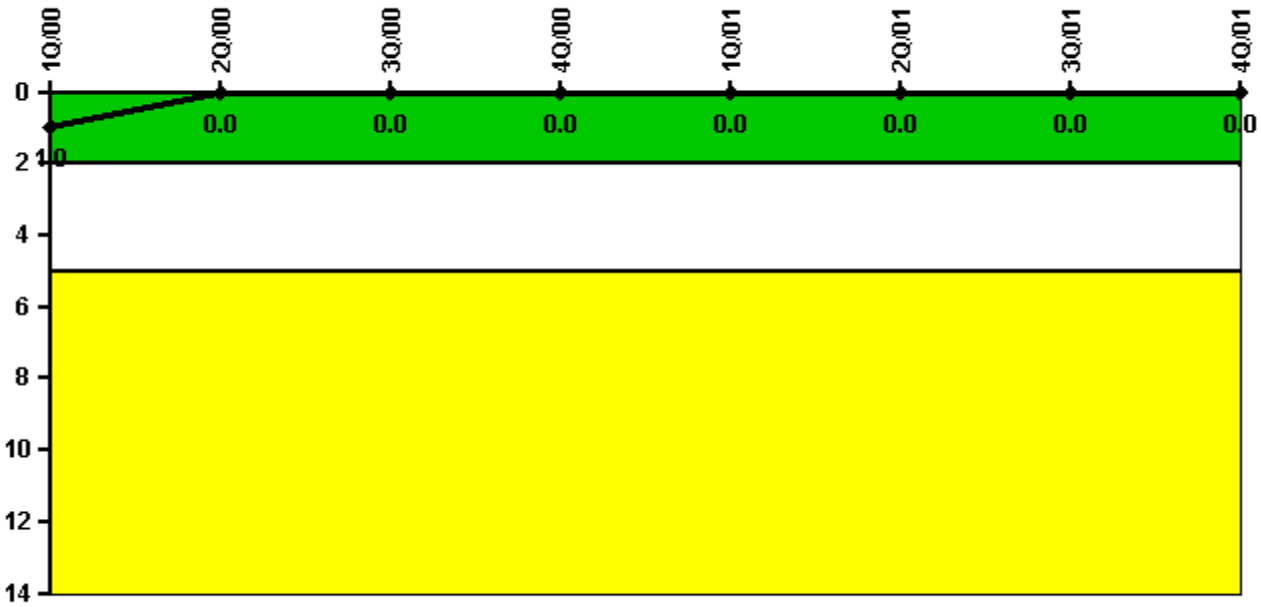
Thresholds: White < 94.0% Yellow < 90.0%

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



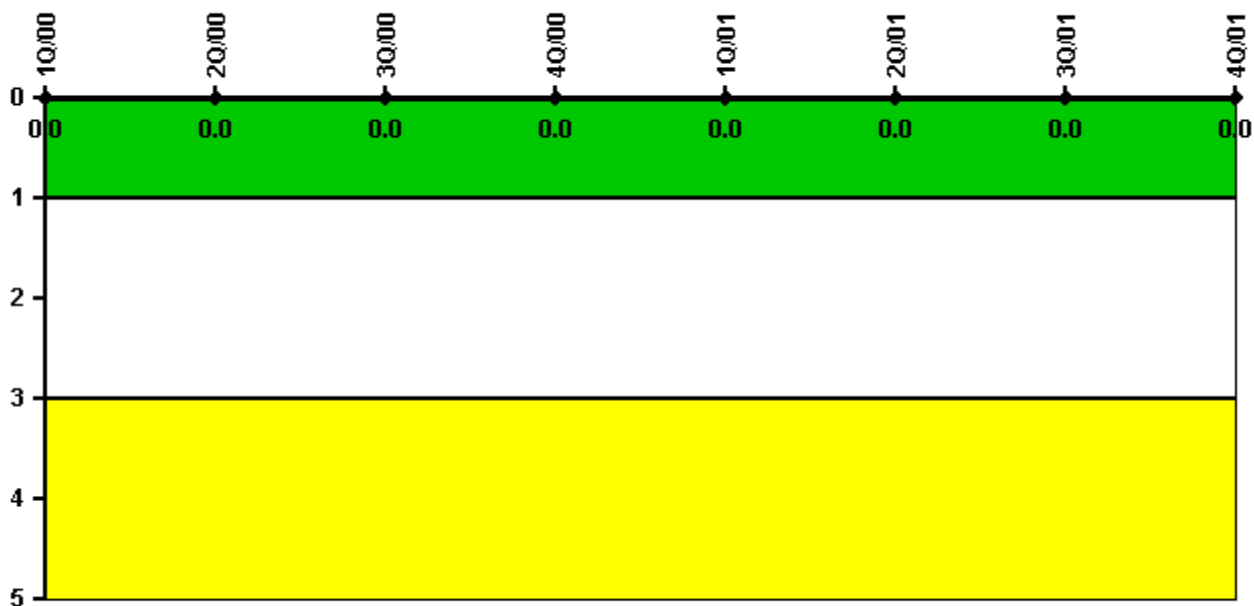
Thresholds: White > 2.0 Yellow > 5.0

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



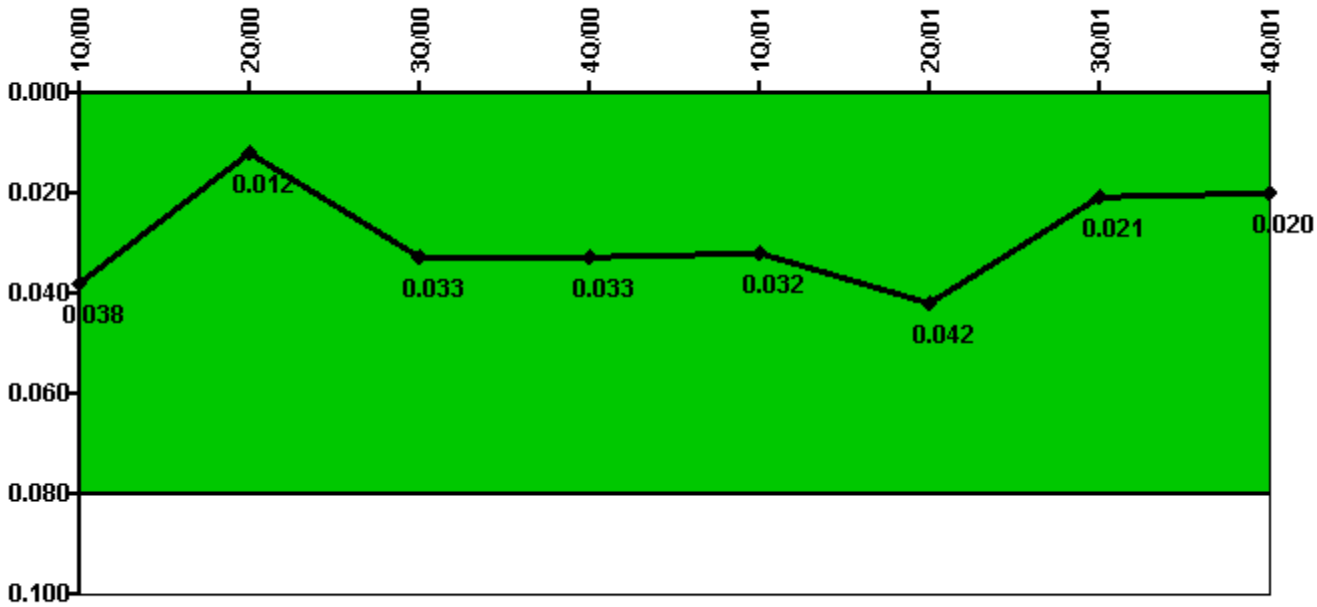
Thresholds: White > 1.0 Yellow > 3.0

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

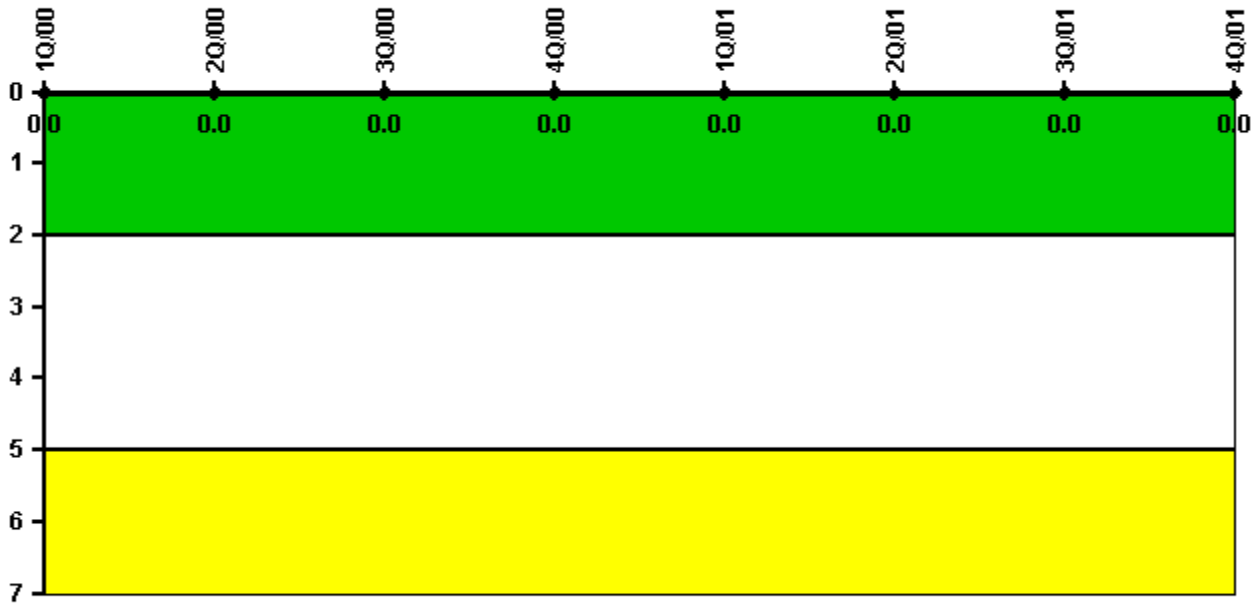
Notes

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



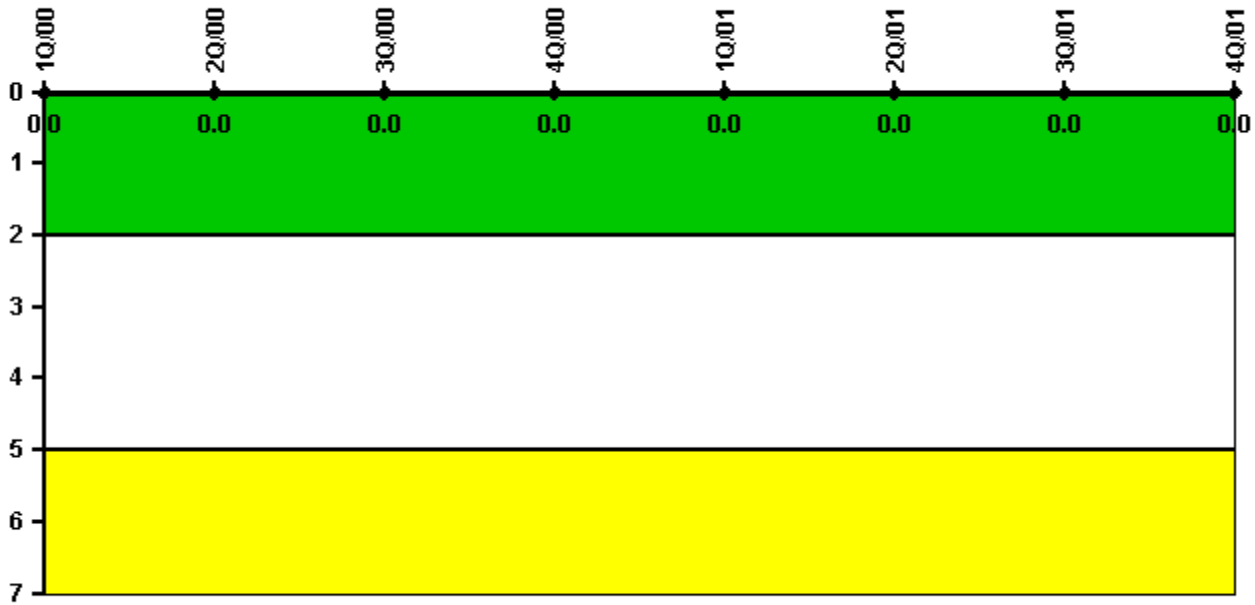
Thresholds: White > 2.0 Yellow > 5.0

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](#)

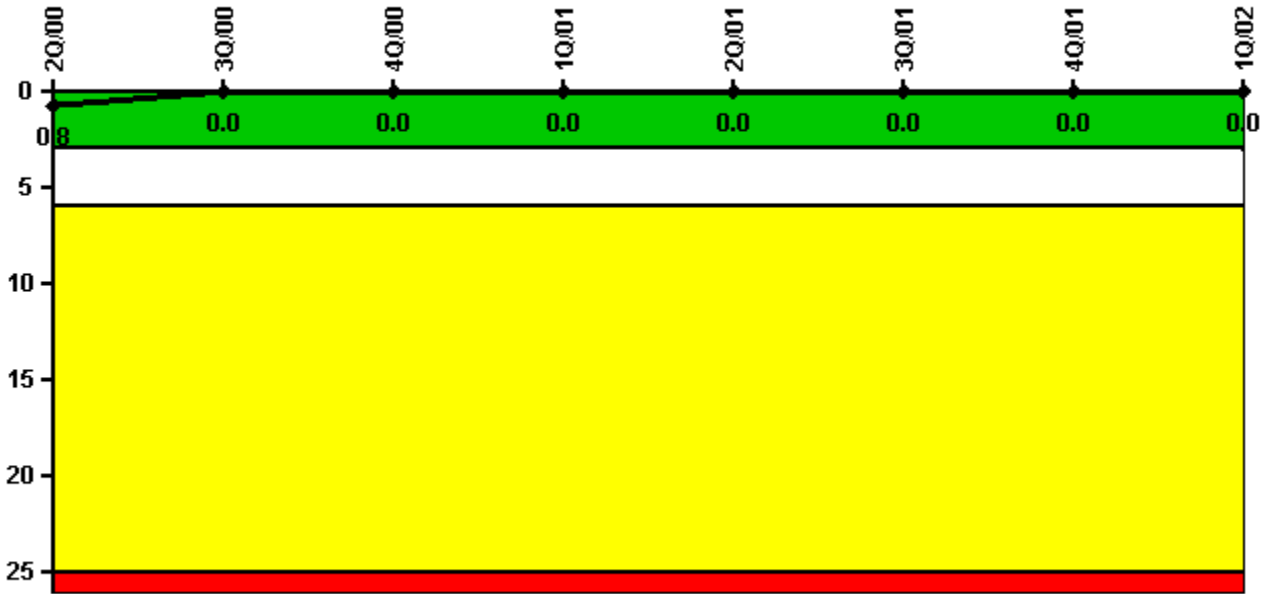
Last Modified: March 15, 2002

Surry 2

1Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	2208.0	1484.7	2122.9	1947.6	2208.0	1950.6	1968.9
Indicator value	0.8	0	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



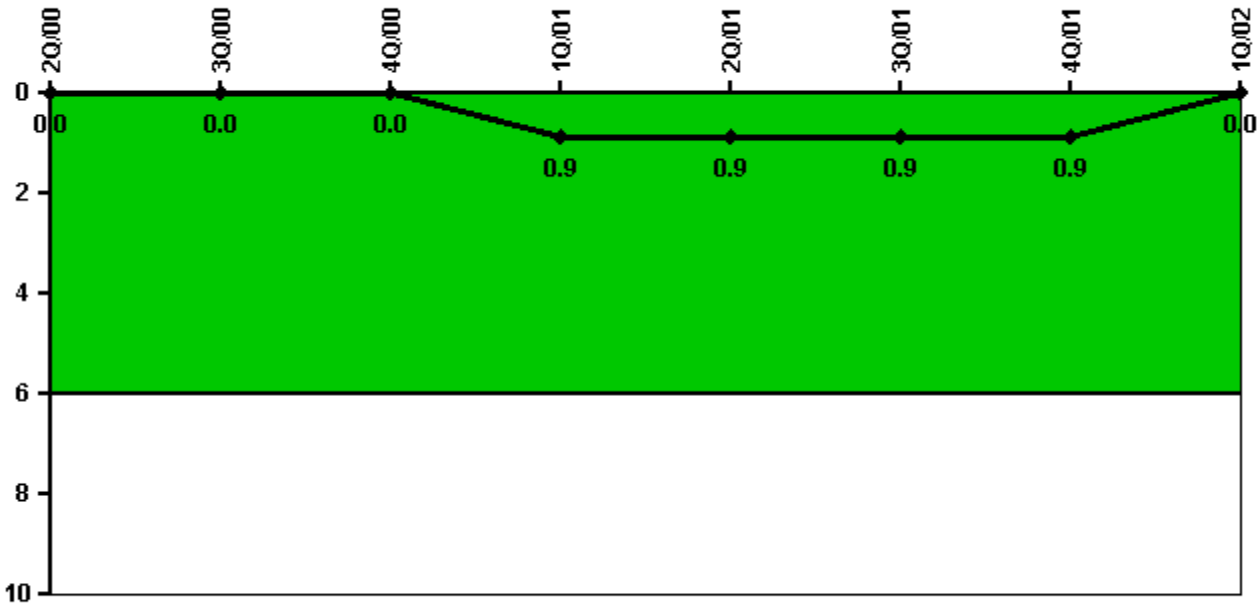
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/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



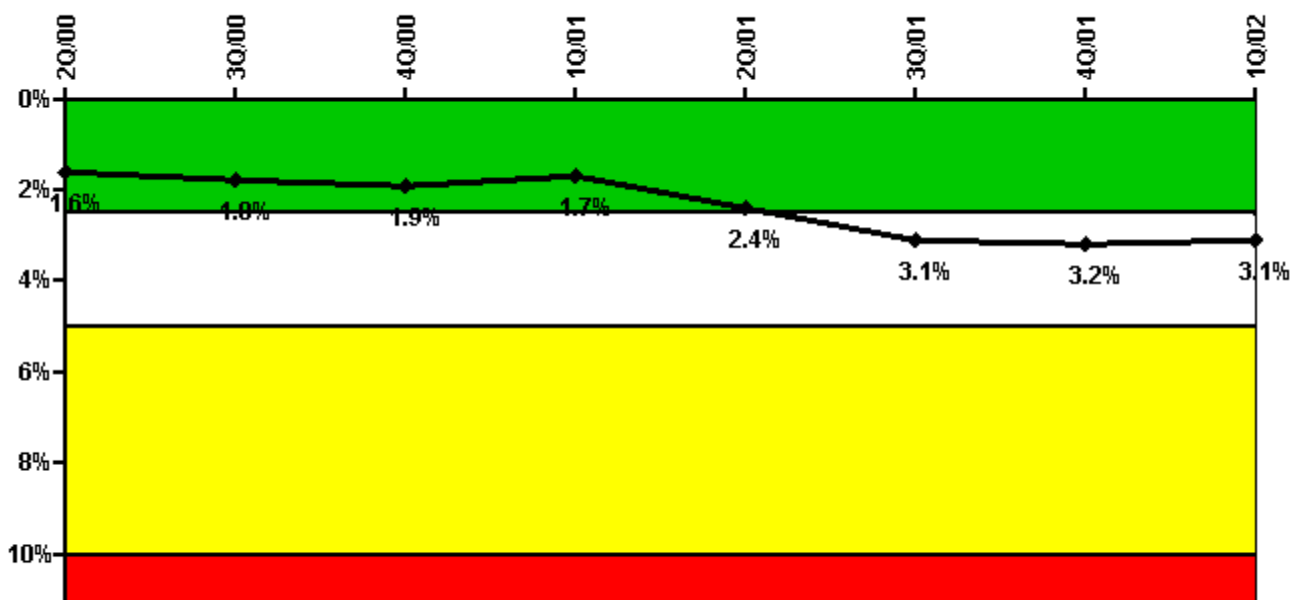
Thresholds: White > 6.0

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	1.0	0	0	0	0
Critical hours	2183.0	2208.0	1484.7	2122.9	1947.6	2208.0	1950.6	1968.9
Indicator value	0	0	0	0.9	0.9	0.9	0.9	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

Notes

Safety System Unavailability, Emergency AC Power	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	22.60	71.39	15.07	33.44	10.63	1.20	88.05	13.38
Unplanned unavailable hours	0	18.94	0	0	0	22.32	133.15	8.12
Fault exposure hours	0	0	0	0	0	336.03	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2013.20	2160.00	1988.57	2208.00	2003.98	1978.30
Train 2								
Planned unavailable hours	41.06	33.76	19.60	25.95	15.77	16.18	36.52	5.57
Unplanned unavailable hours	50.20	0	10.30	0	131.35	0.33	0.10	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	2013.20	2160.00	1988.57	2208.00	2003.98	1978.30
Indicator value	1.6%	1.8%	1.9%	1.7%	2.4%	3.1%	3.2%	3.1%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



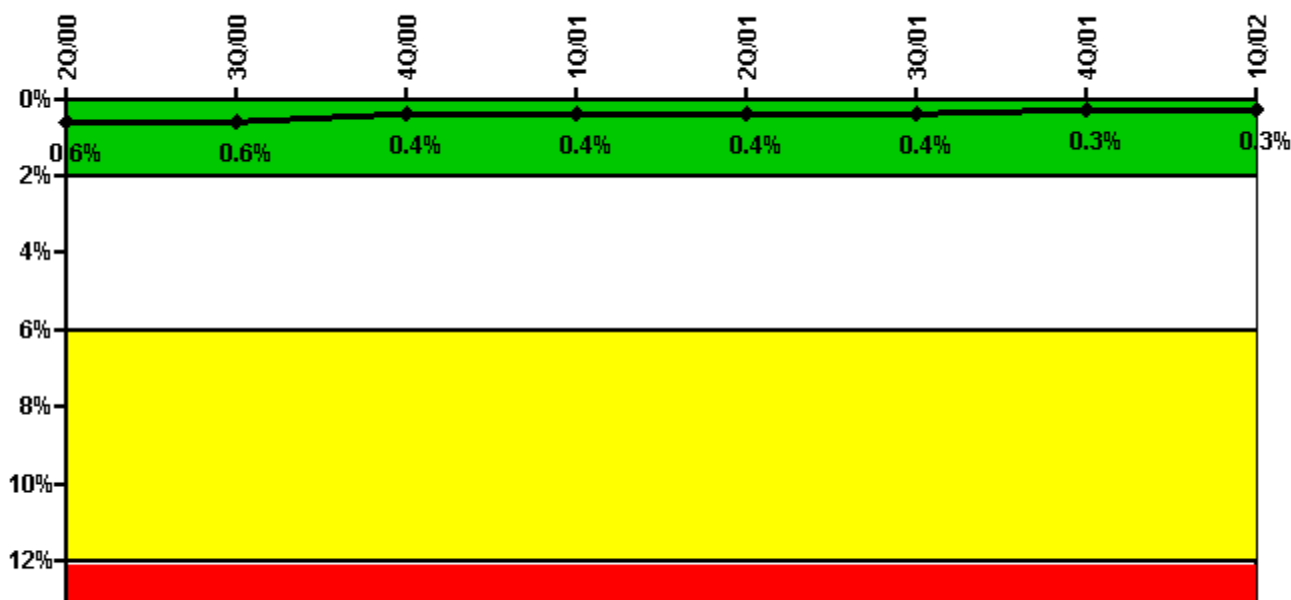
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	0	2.07	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	1557.80	2160.00	1993.40	2208.00	2006.00	1968.90
Train 2								
Planned unavailable hours	0	0.92	3.00	0.70	3.10	2.00	0.50	1.20
Unplanned unavailable hours	0	0	0	0	0	4.80	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00	2006.00	1968.90
Indicator value	0%	0%	0%	0%	0%	0%	0%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



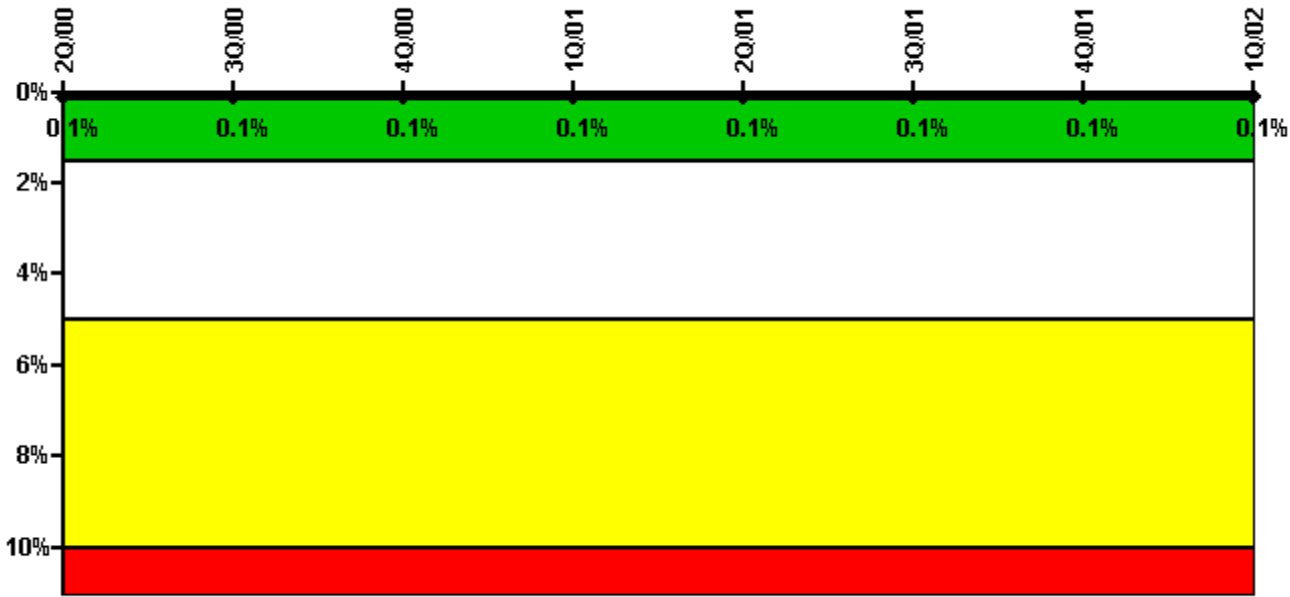
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	10.90	0.85	9.90	4.30	1.10	10.60	1.30	9.30
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	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00	2006.00	1968.90
Train 2								
Planned unavailable hours	11.30	1.48	0	16.50	1.40	1.40	1.50	0.60
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00	2006.00	1968.90
Train 3								
Planned unavailable hours	1.50	5.48	2.30	1.70	9.50	2.10	1.30	11.90
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	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00	2006.00	1968.90
Indicator value	0.6%	0.6%	0.4%	0.4%	0.4%	0.4%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



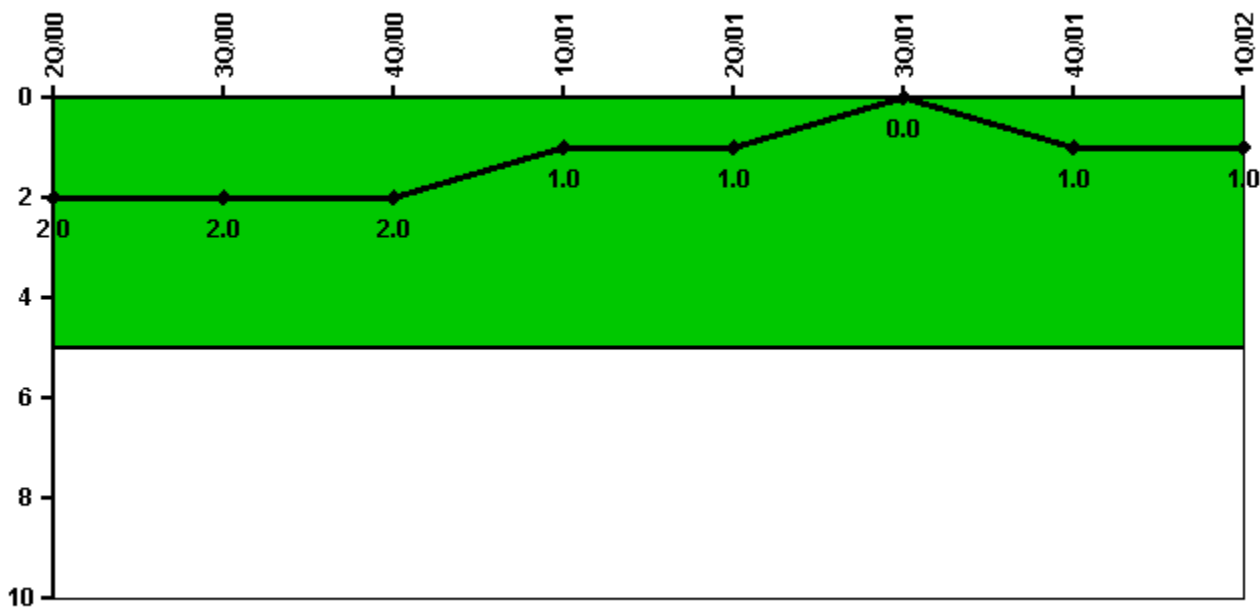
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

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	0.60	0.05	0	11.30	0.10	1.10	0	10.80
Unplanned unavailable hours	1.80	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1557.80	2160.00	1993.40	2208.00	2209.00	1968.90
Train 2								
Planned unavailable hours	1.70	0.44	0	2.80	0.70	10.30	0.60	1.90
Unplanned unavailable hours	1.70	0	0	0	0	0	0	0
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	1557.80	2160.00	1993.40	2208.00	2209.00	1968.90
Train 3								
Planned unavailable hours	0	9.68	1.65	0	0.30	0	0	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	2013.20	2160.00	1993.40	2208.00	2209.00	2160.00
Train 4								
Planned unavailable hours	0	9.60	0.06	0	0.40	0	0	10.20
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2013.20	2160.00	1993.40	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 Functional Failures (PWR)



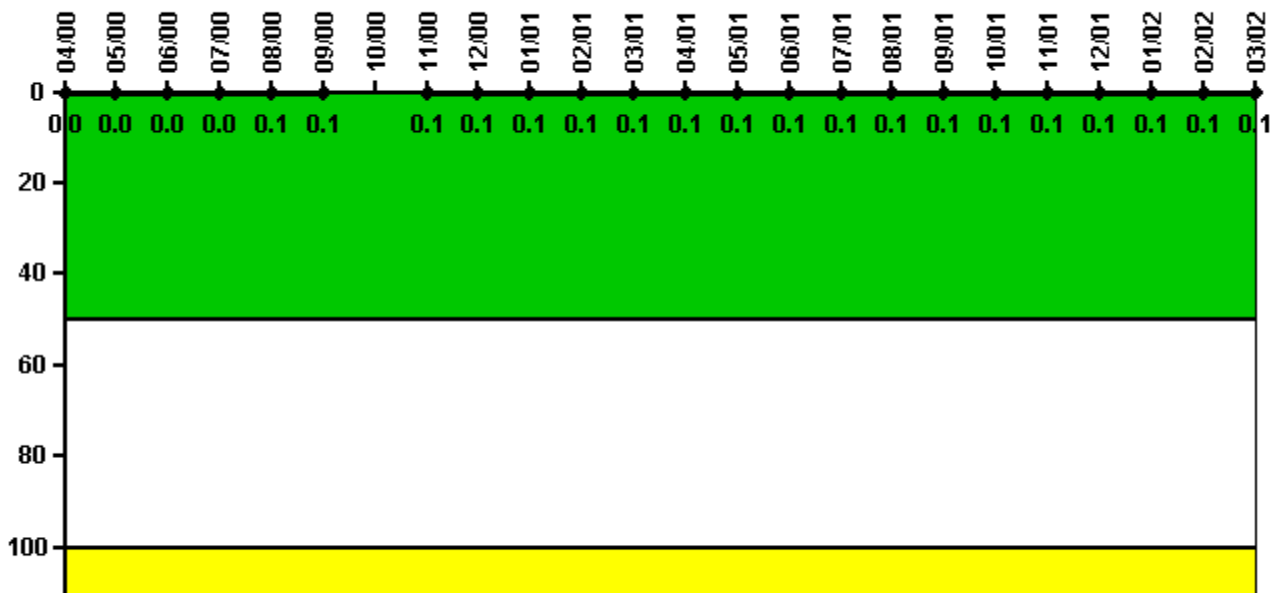
Thresholds: White > 5.0

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	2	2	2	1	1	0	1	1

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

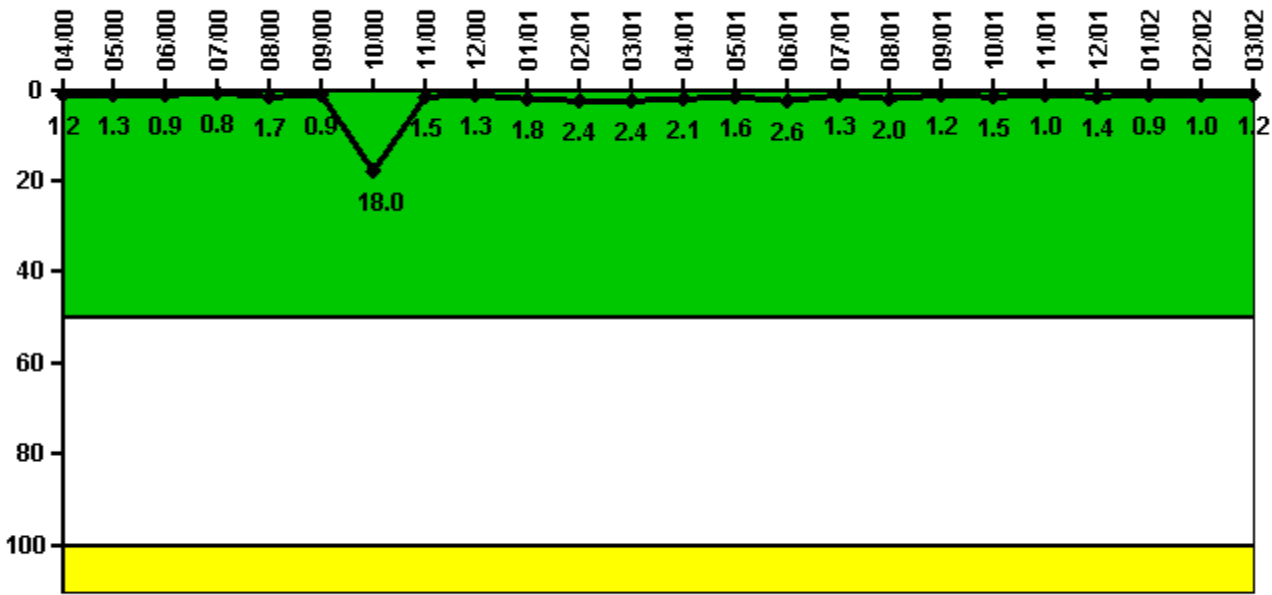
Notes

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	0.000430	0.000441	0.000475	0.000453	0.000738	0.000552	N/A	0.000842	0.000834	0.000951	0.000951	0.000914
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0.1	0.1	N/A	0.1	0.1	0.1	0.1	0.1

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	0.001100	0.000977	0.001190	0.001180	0.001020	0.001060	0.001100	0.001140	0.001190	0.001140	0.001160	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	0.1	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

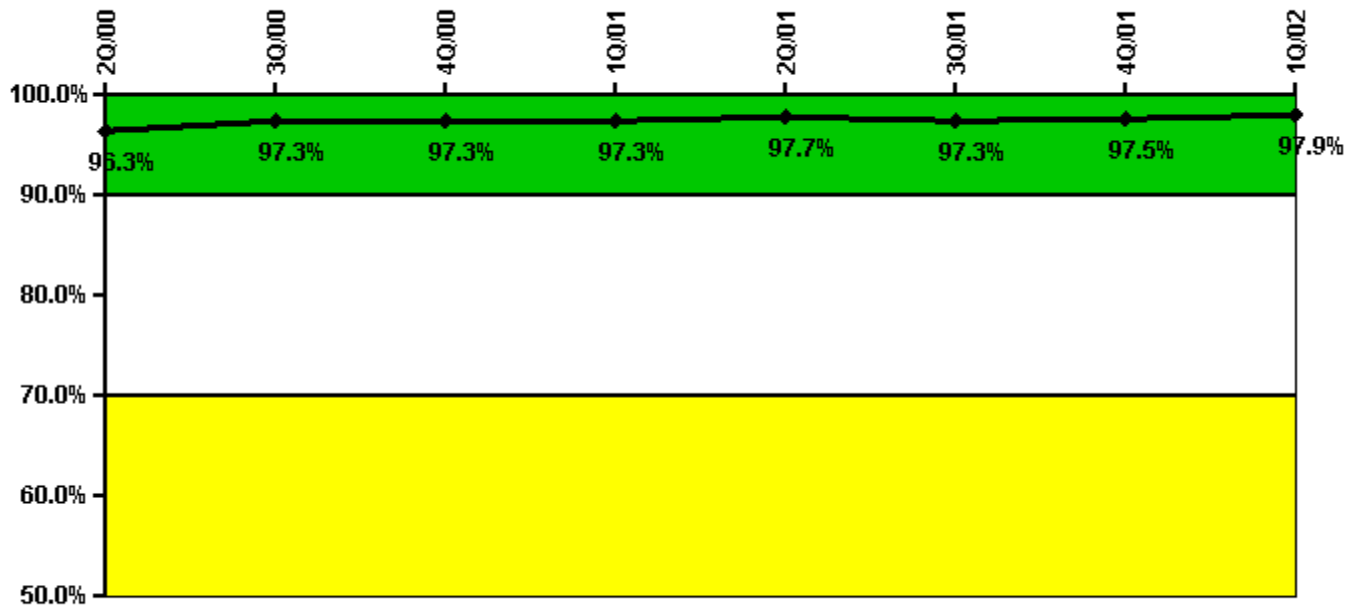
Notes

Reactor Coolant System Leakage	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	0.120	0.130	0.090	0.080	0.170	0.090	1.800	0.150	0.130	0.180	0.240	0.240
Technical specification limit	10.0	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	0.9	0.8	1.7	0.9	18.0	1.5	1.3	1.8	2.4	2.4

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	0.210	0.160	0.260	0.130	0.200	0.120	0.150	0.100	0.140	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	2.1	1.6	2.6	1.3	2.0	1.2	1.5	1.0	1.4	0.9	1.0	1.2

Licensee Comments: none

Drill/Exercise Performance



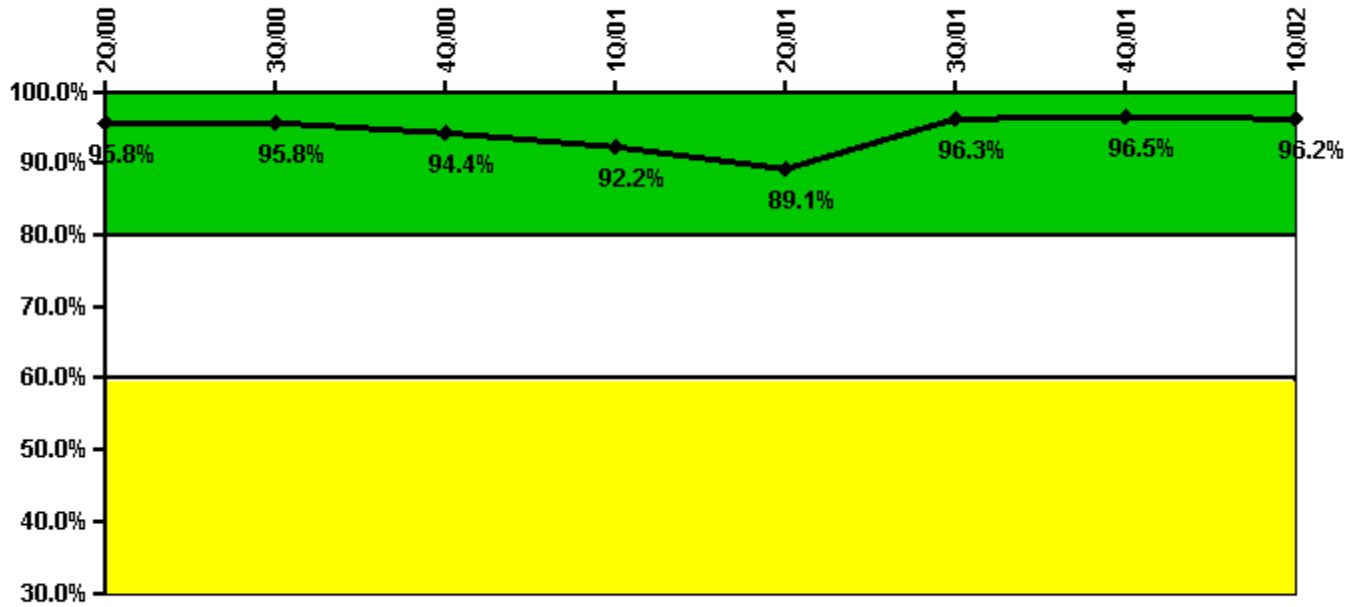
Thresholds: White < 90.0% Yellow < 70.0%

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



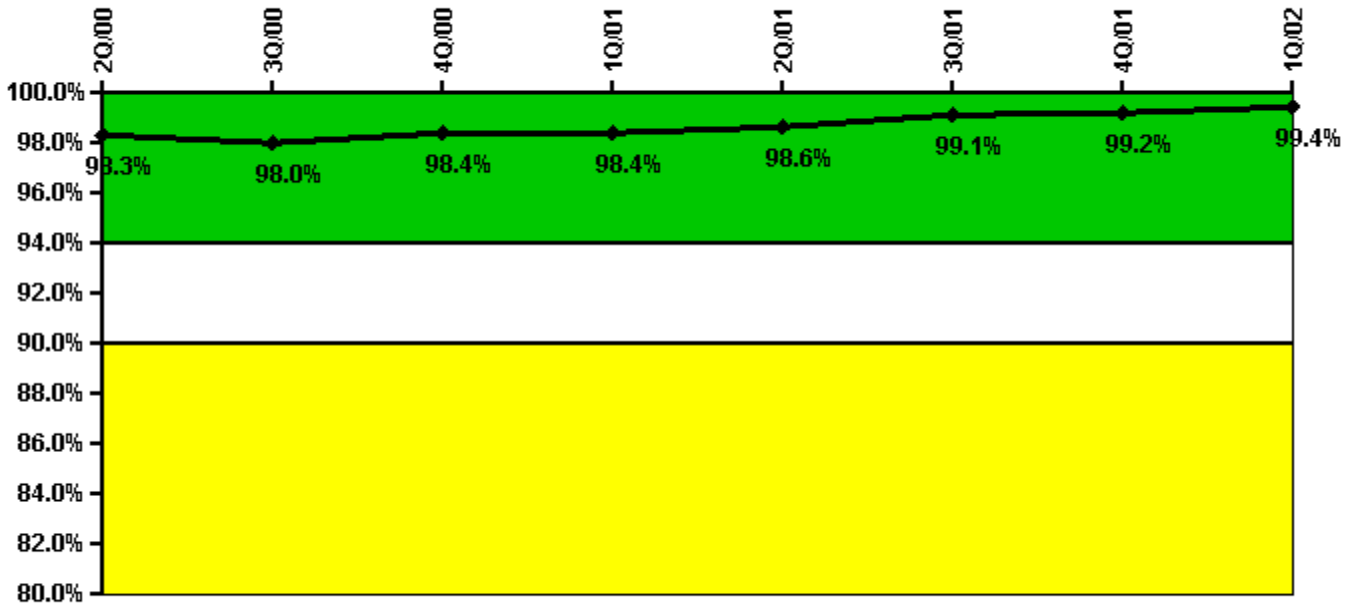
Thresholds: White < 80.0% Yellow < 60.0%

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



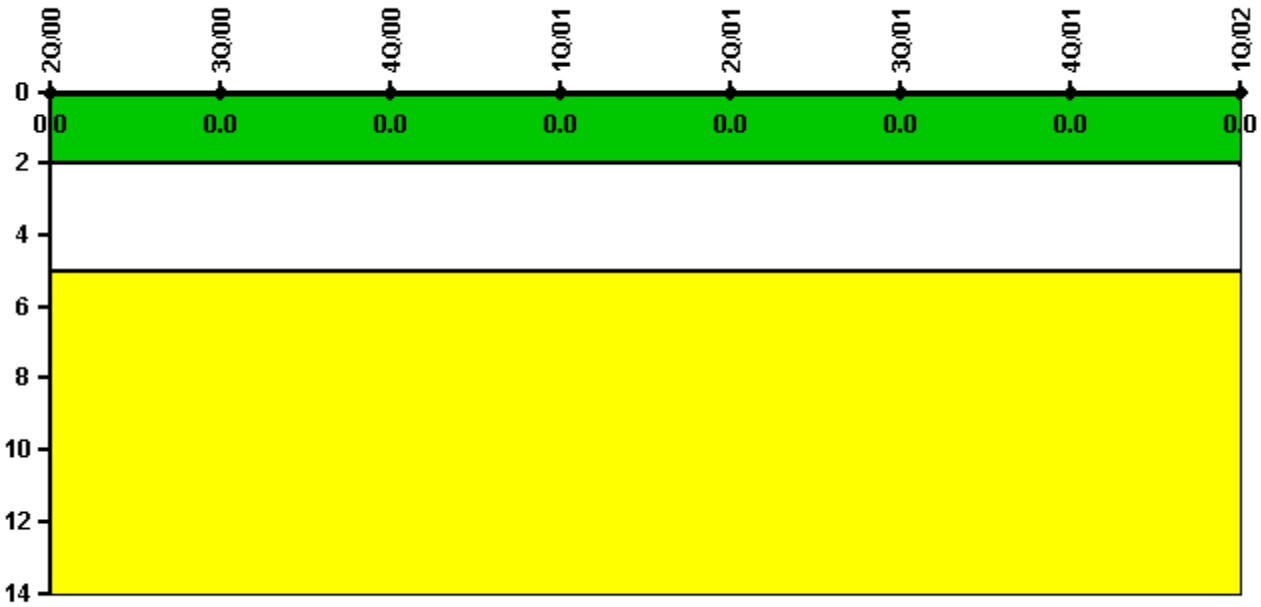
Thresholds: White < 94.0% Yellow < 90.0%

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



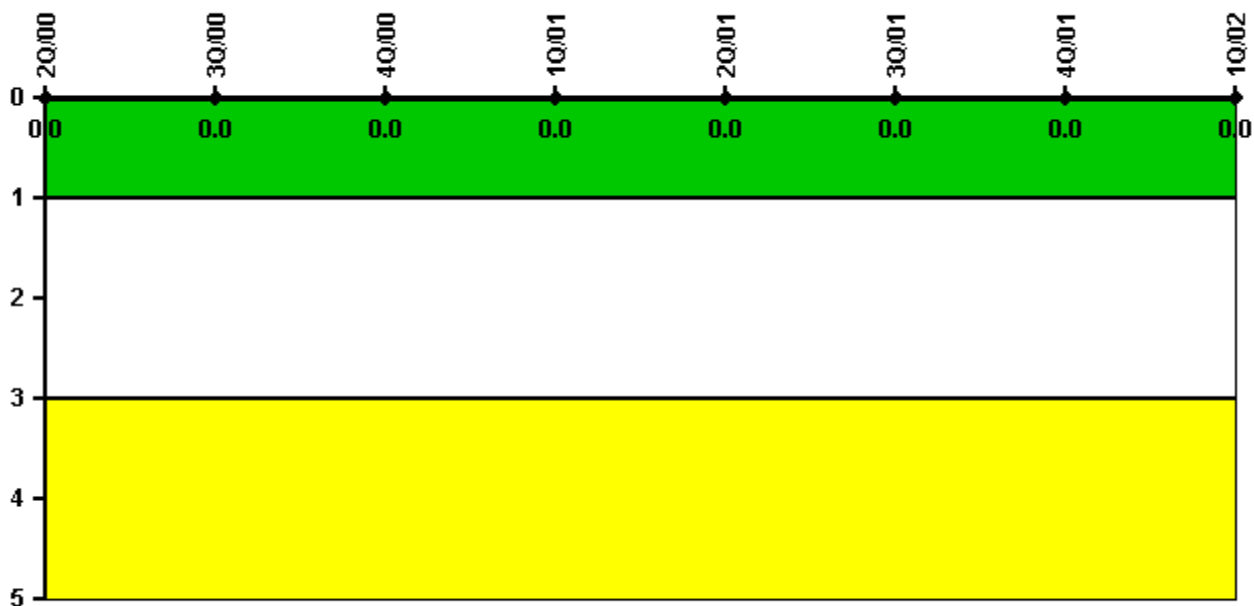
Thresholds: White > 2.0 Yellow > 5.0

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



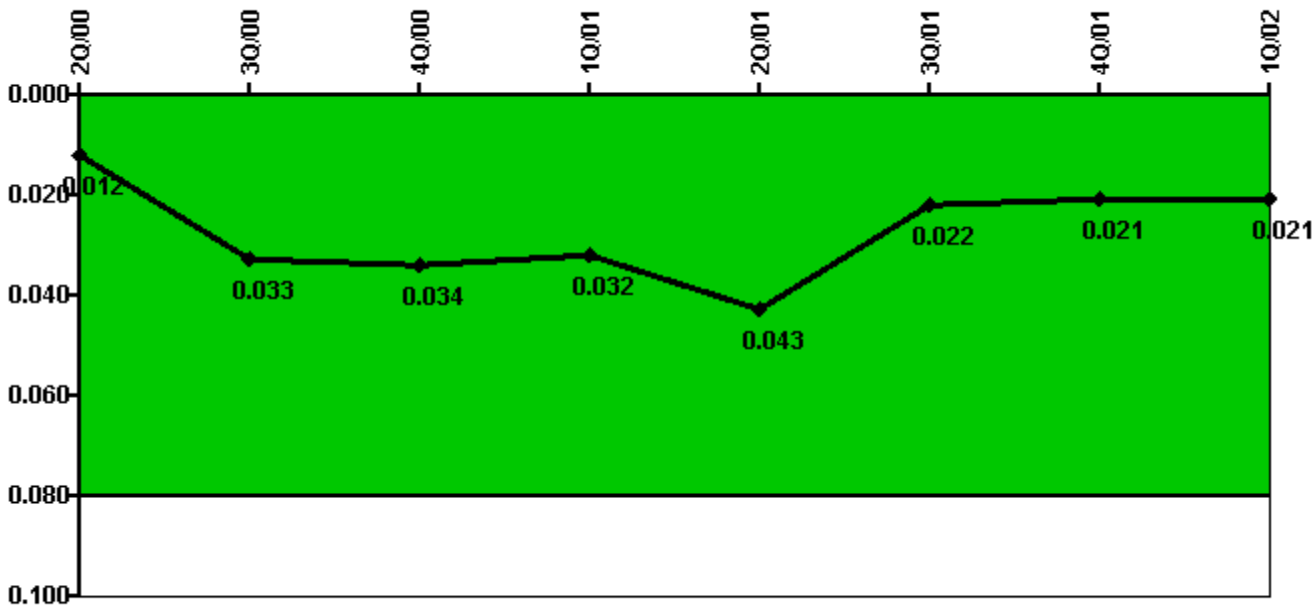
Thresholds: White > 1.0 Yellow > 3.0

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

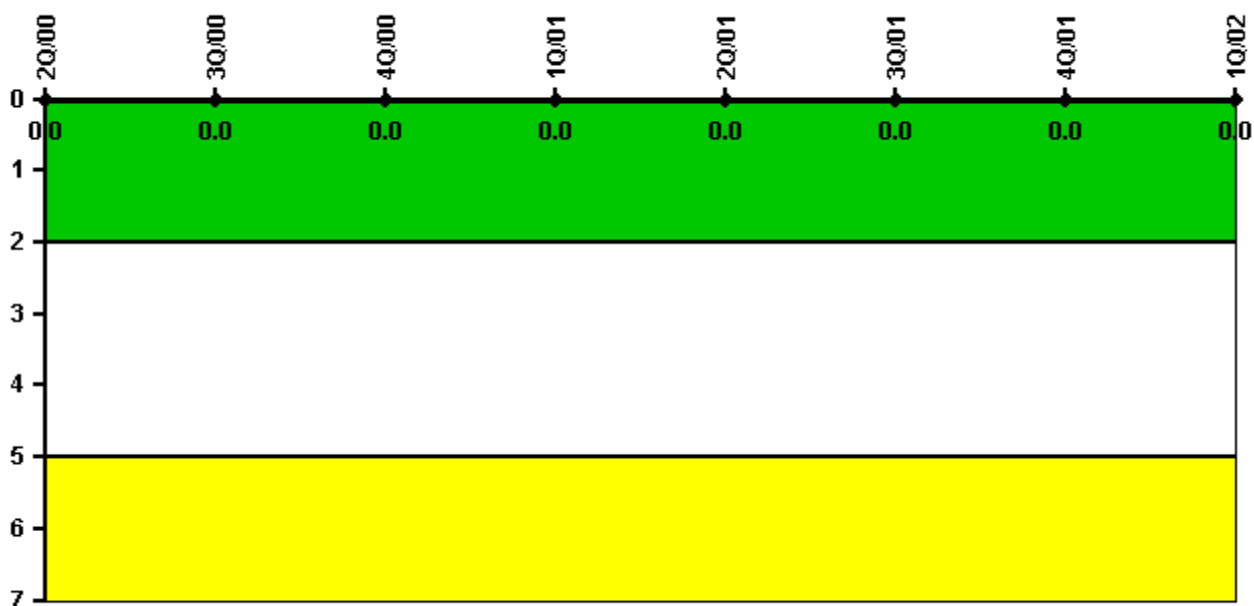
Notes

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



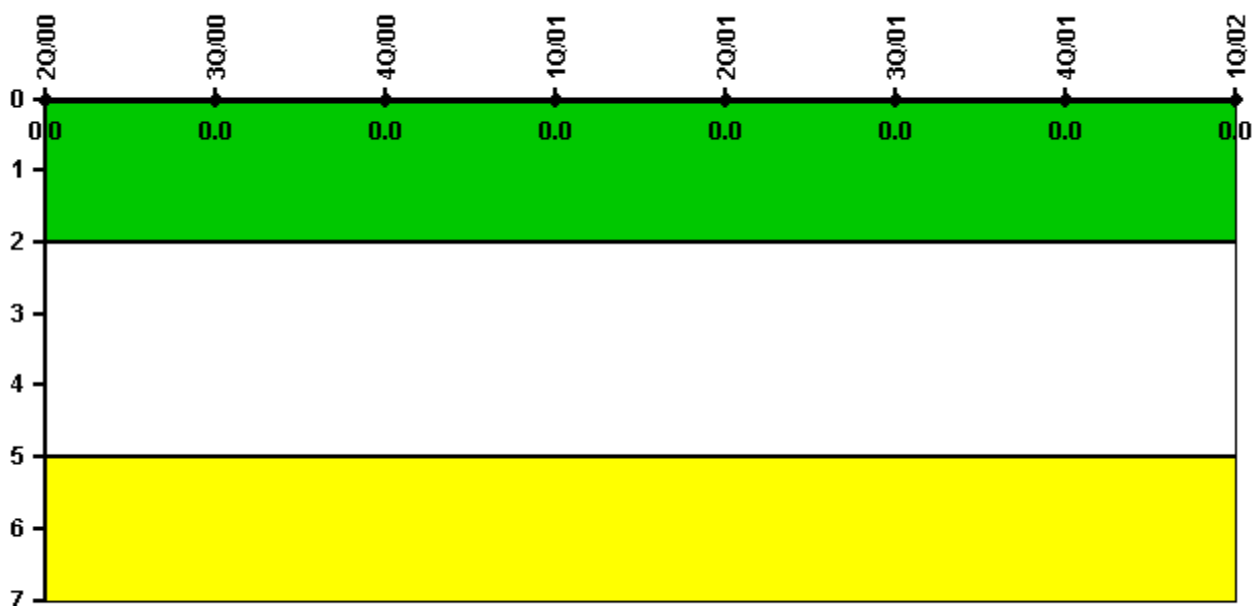
Thresholds: White > 2.0 Yellow > 5.0

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](#)

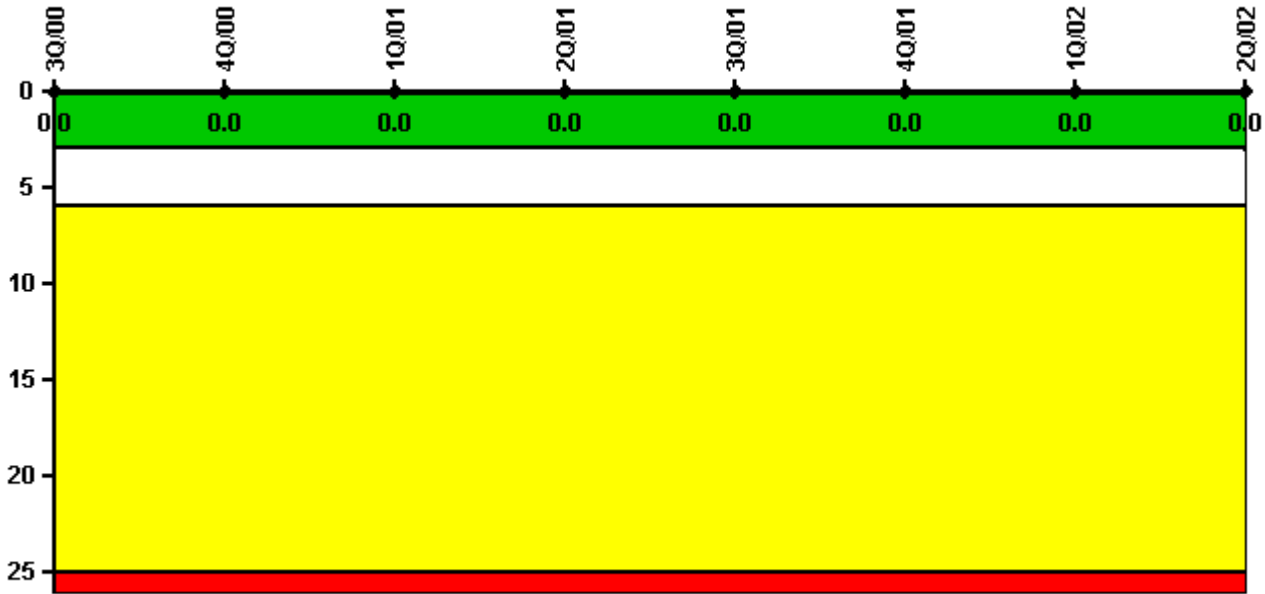
Last Modified: May 1, 2002

Surry 2

2Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



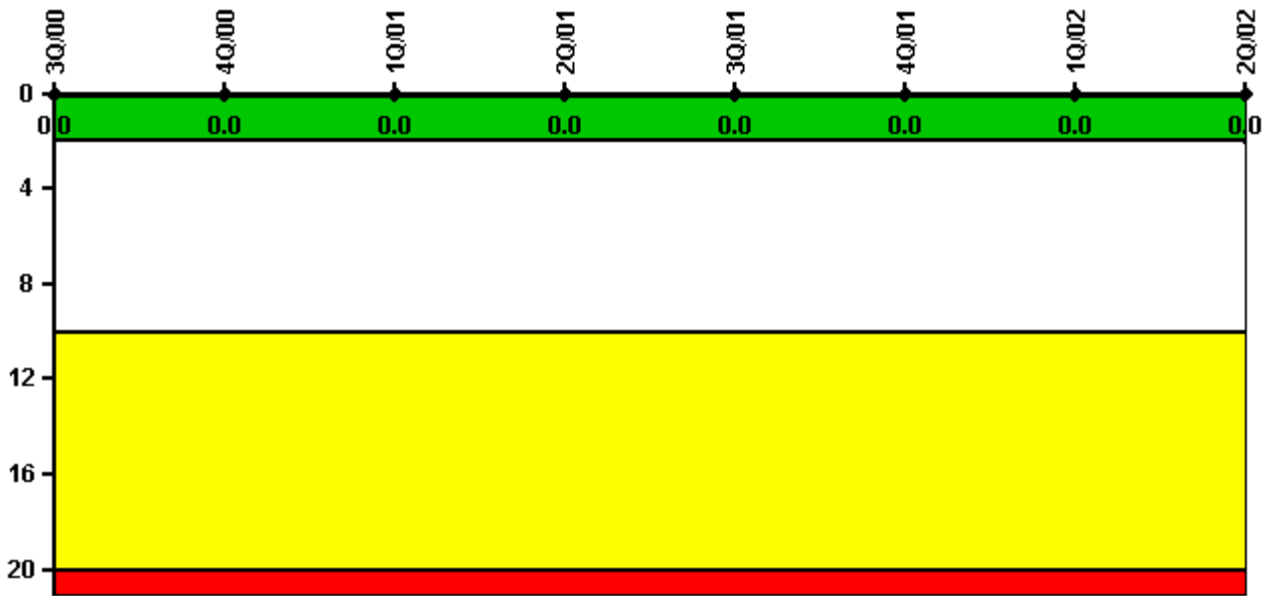
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	1484.7	2122.9	1947.6	2208.0	1950.6	1968.9	1716.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



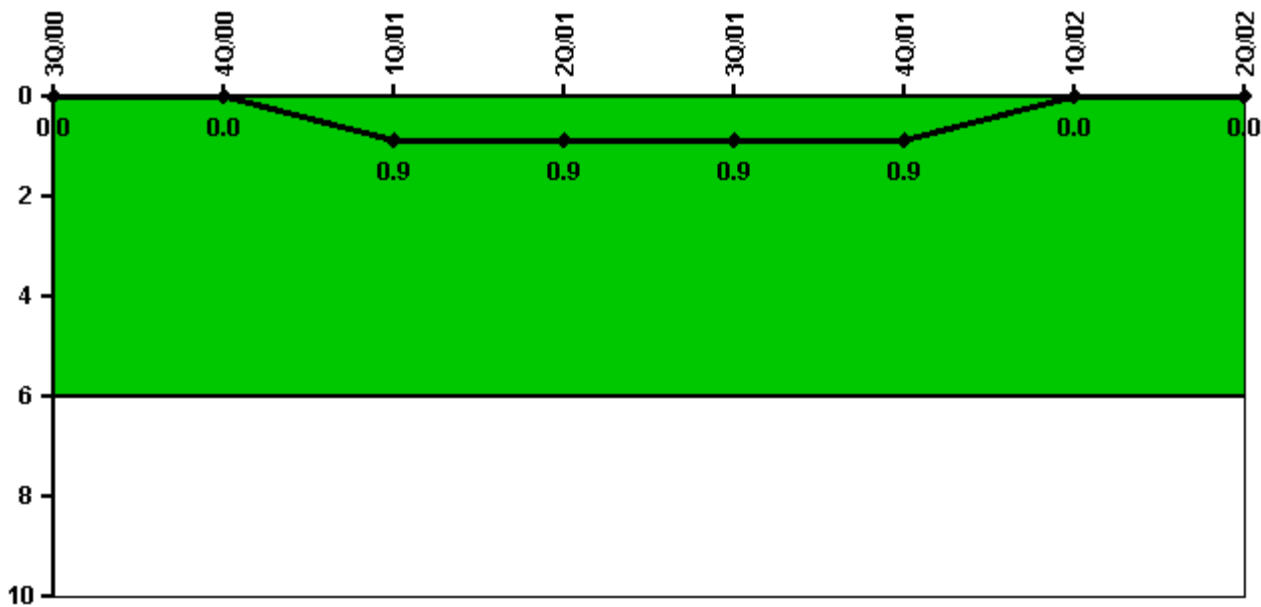
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



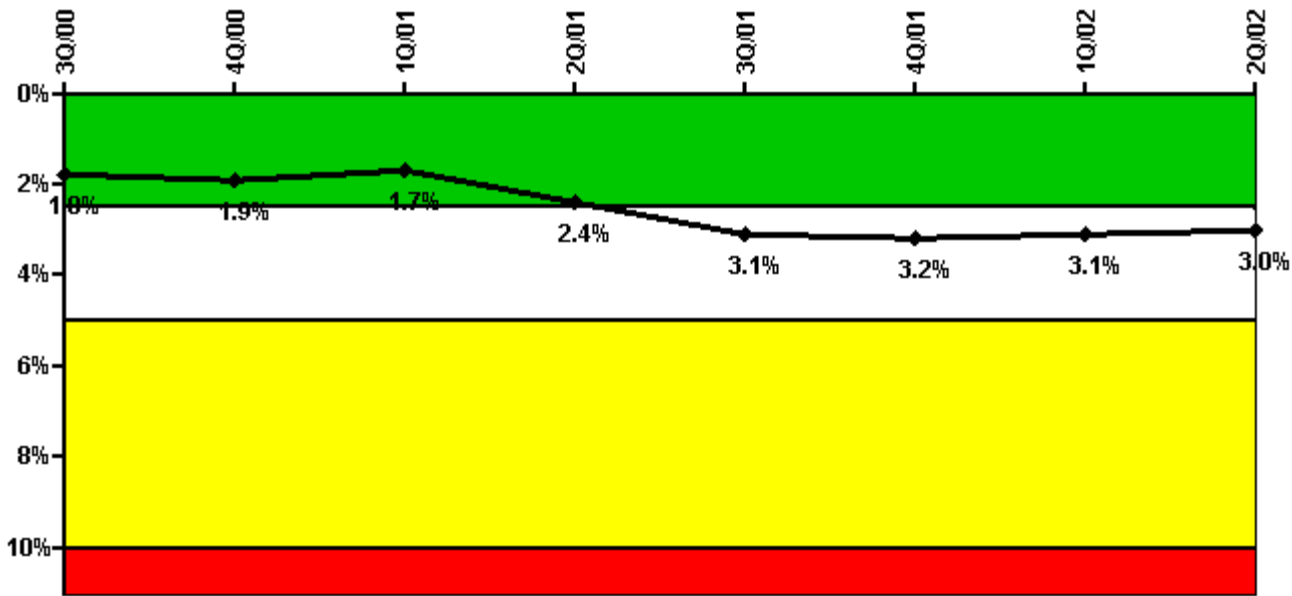
Thresholds: White > 6.0

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	1.0	0	0	0	0	0
Critical hours	2208.0	1484.7	2122.9	1947.6	2208.0	1950.6	1968.9	1716.0
Indicator value	0	0	0.9	0.9	0.9	0.9	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



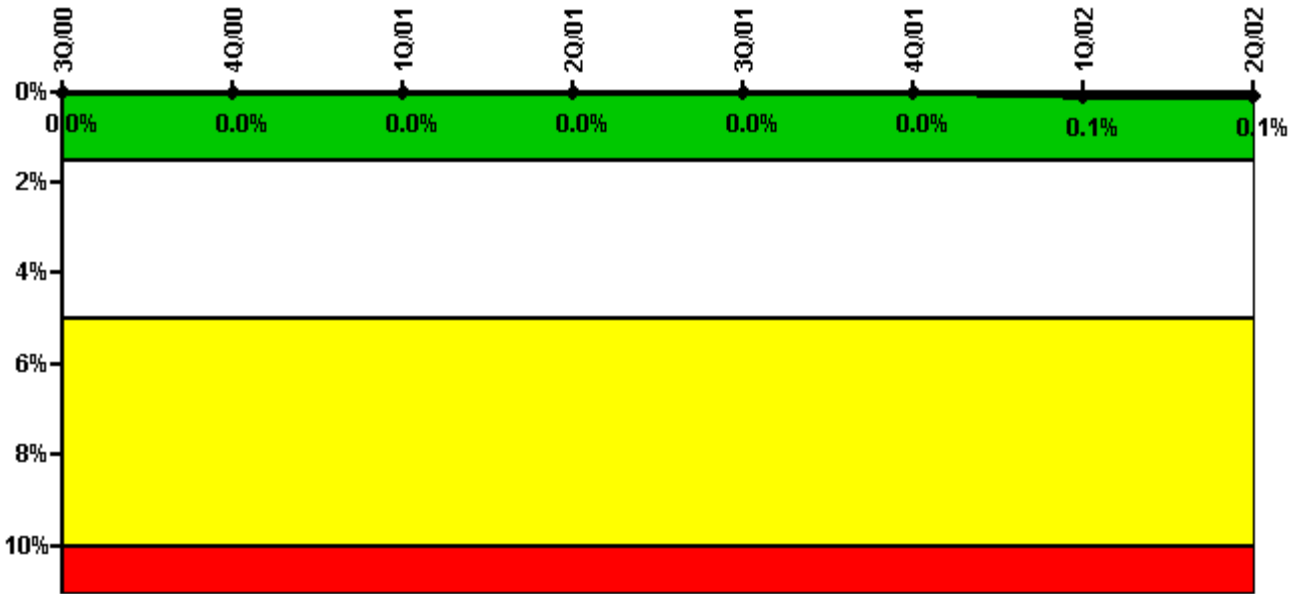
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	71.39	15.07	33.44	10.63	1.20	88.05	13.38	2.75
Unplanned unavailable hours	18.94	0	0	0	22.32	133.15	8.12	0.32
Fault exposure hours	0	0	0	0	336.03	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2013.20	2160.00	1988.57	2208.00	2003.98	1978.30	1791.42
Train 2								
Planned unavailable hours	33.76	19.60	25.95	15.77	16.18	36.52	5.57	15.03
Unplanned unavailable hours	0	10.30	0	131.35	0.33	0.10	7.18	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	2013.20	2160.00	1988.57	2208.00	2003.98	1978.30	1791.42
Indicator value	1.8%	1.9%	1.7%	2.4%	3.1%	3.2%	3.1%	3.0%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



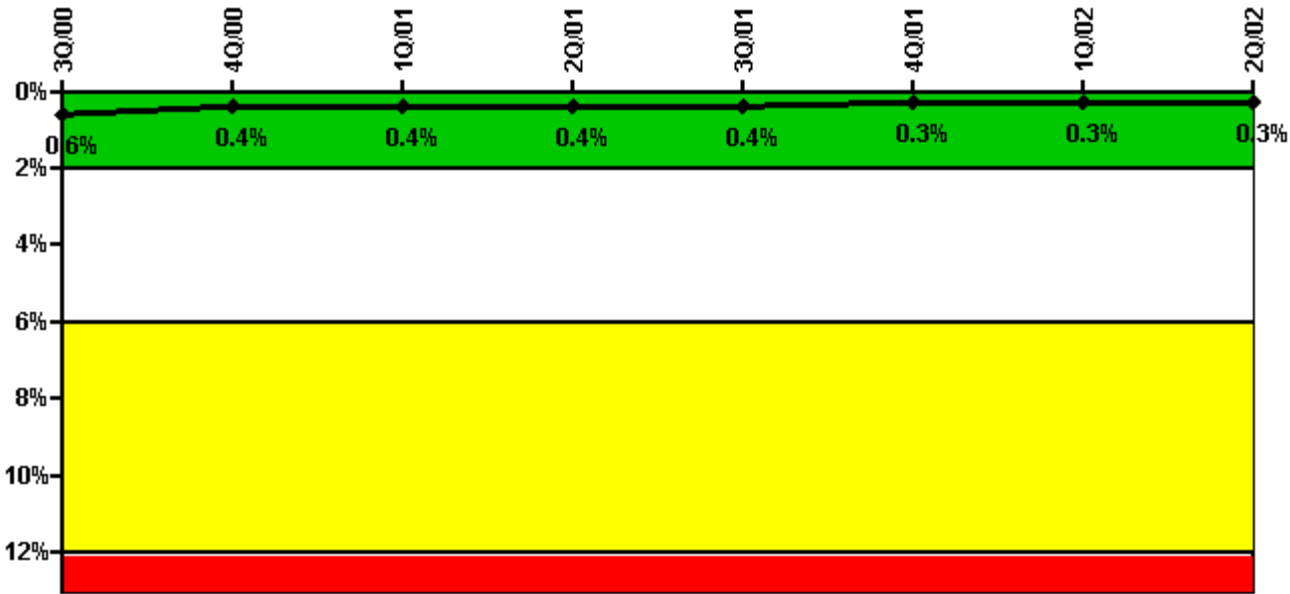
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	2.07	0	0	0	0	0	0	0.80
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	1557.80	2160.00	1993.40	2208.00	2006.00	1968.90	1716.00
Train 2								
Planned unavailable hours	0.92	3.00	0.70	3.10	2.00	0.50	1.20	1.85
Unplanned unavailable hours	0	0	0	0	4.80	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1557.80	2160.00	1993.40	2208.00	2006.00	1968.90	1716.00
Indicator value	0%	0%	0%	0%	0%	0%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



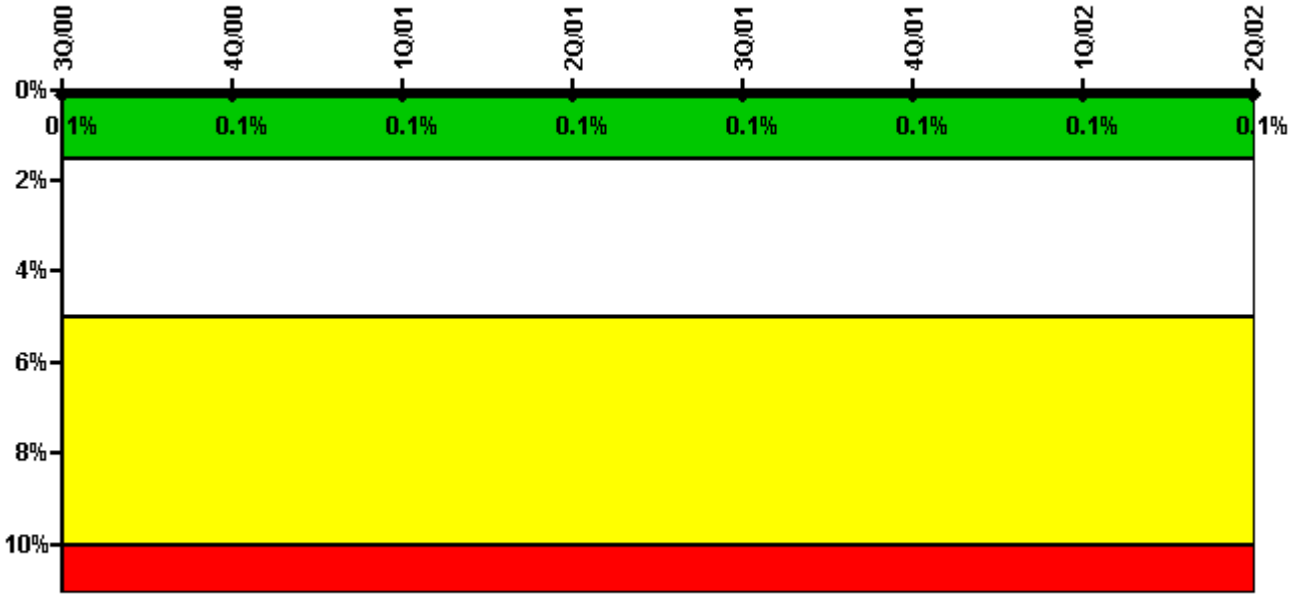
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	0.85	9.90	4.30	1.10	10.60	1.30	9.30	14.70
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	2208.00	1557.80	2160.00	1993.40	2208.00	2006.00	1968.90	1716.00
Train 2								
Planned unavailable hours	1.48	0	16.50	1.40	1.40	1.50	0.60	8.70
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	2208.00	1557.80	2160.00	1993.40	2208.00	2006.00	1968.90	1716.00
Train 3								
Planned unavailable hours	5.48	2.30	1.70	9.50	2.10	1.30	11.90	1.20
Unplanned unavailable hours	0	0	0	0	0	0	0	3.80
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1557.80	2160.00	1993.40	2208.00	2006.00	1968.90	1716.00
Indicator value	0.6%	0.4%	0.4%	0.4%	0.4%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

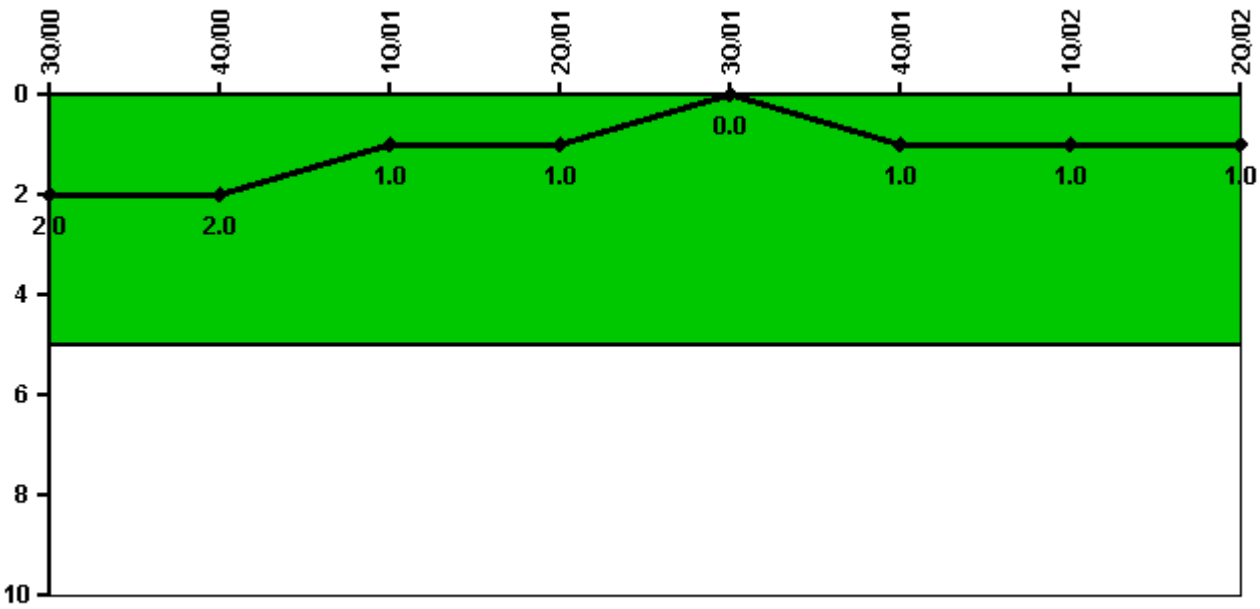
Notes

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	0.05	0	11.30	0.10	1.10	0	10.80	0.47
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	2208.00	1557.80	2160.00	1993.40	2208.00	2209.00	1968.90	1716.00
Train 2								
Planned unavailable hours	0.44	0	2.80	0.70	10.30	0.60	1.90	0
Unplanned unavailable hours	0	0	0	0	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	2208.00	1557.80	2160.00	1993.40	2208.00	2209.00	1968.90	1716.00
Train 3								
Planned unavailable hours	9.68	1.65	0	0.30	0	0	10.00	0
Unplanned unavailable hours	0	0	0	0	0	0	0	5.85
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	2013.20	2160.00	1993.40	2208.00	2209.00	2160.00	2183.00
Train 4								
Planned unavailable hours	9.60	0.06	0	0.40	0	0	10.20	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	2013.20	2160.00	1993.40	2208.00	2209.00	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 Functional Failures (PWR)



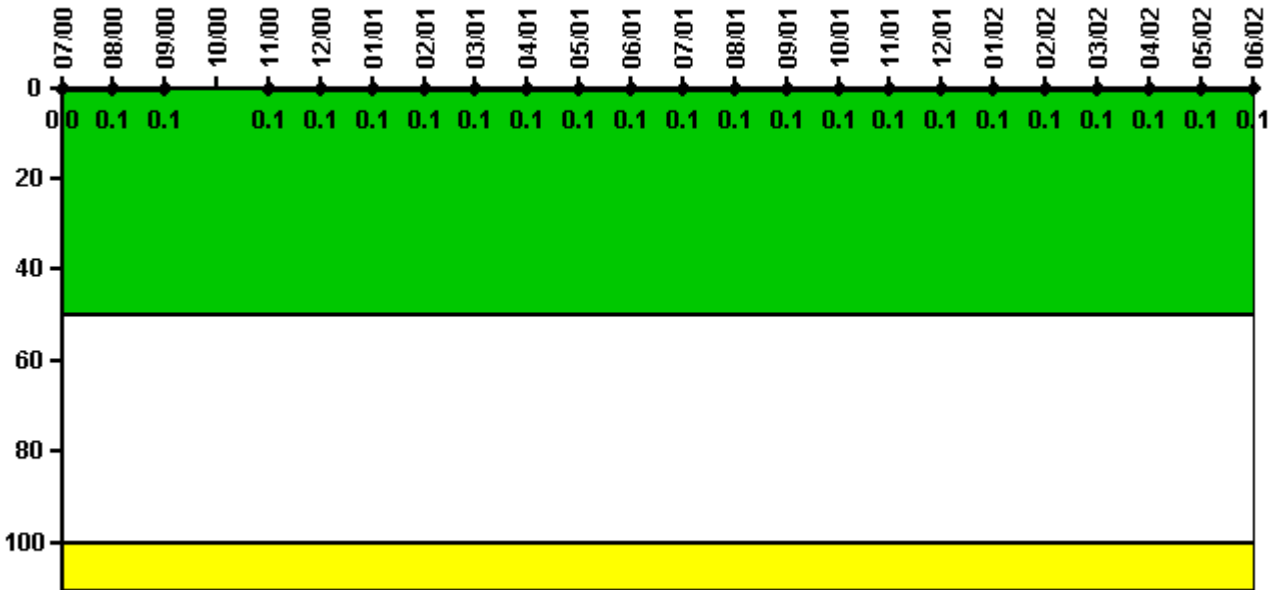
Thresholds: White > 5.0

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	2	2	1	1	0	1	1	1

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

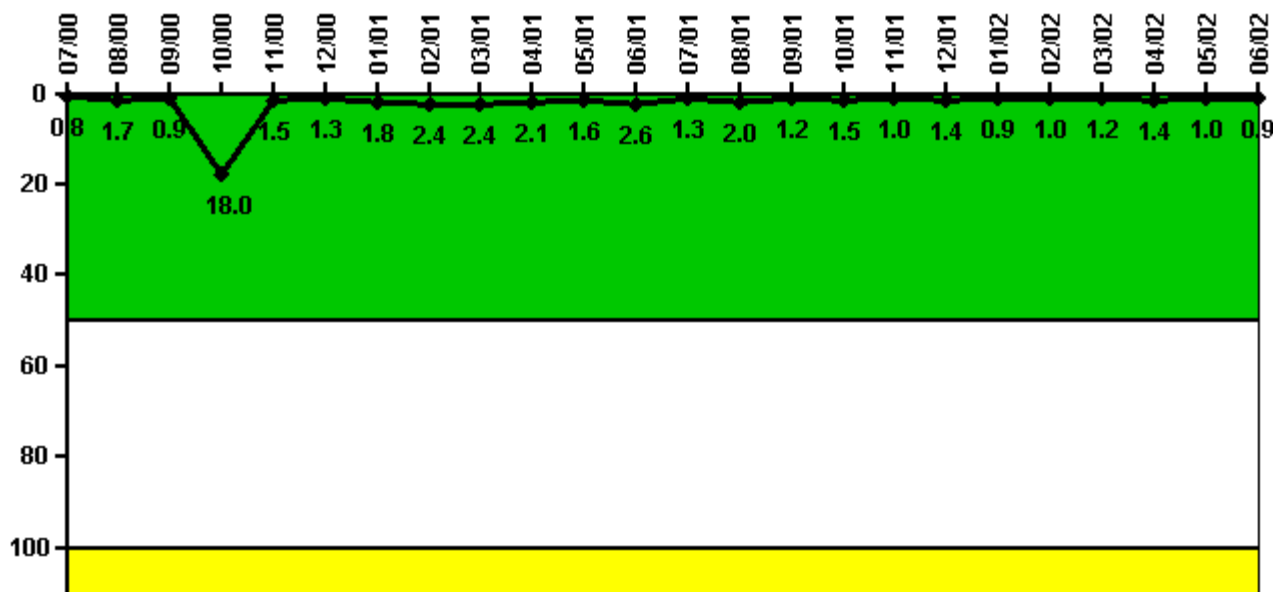
Notes

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	0.000453	0.000738	0.000552	N/A	0.000842	0.000834	0.000951	0.000951	0.000914	0.001100	0.000977	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	0.1	0.1	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

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	0.001180	0.001020	0.001060	0.001100	0.001140	0.001190	0.001140	0.001160	0.001350	0.000611	0.000791	0.000651
Technical specification limit	1.0	1.0	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

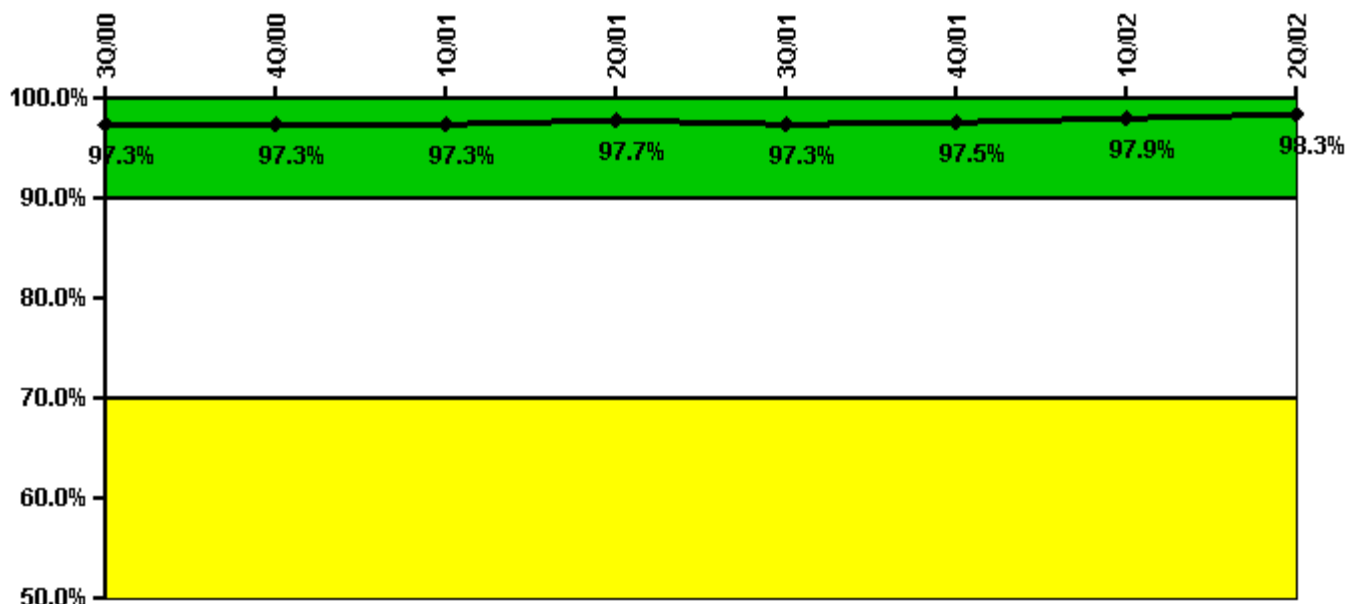
Notes

Reactor Coolant System Leakage	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	0.080	0.170	0.090	1.800	0.150	0.130	0.180	0.240	0.240	0.210	0.160	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	0.8	1.7	0.9	18.0	1.5	1.3	1.8	2.4	2.4	2.1	1.6	2.6

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	0.130	0.200	0.120	0.150	0.100	0.140	0.090	0.100	0.120	0.140	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	1.3	2.0	1.2	1.5	1.0	1.4	0.9	1.0	1.2	1.4	1.0	0.9

Licensee Comments: none

Drill/Exercise Performance



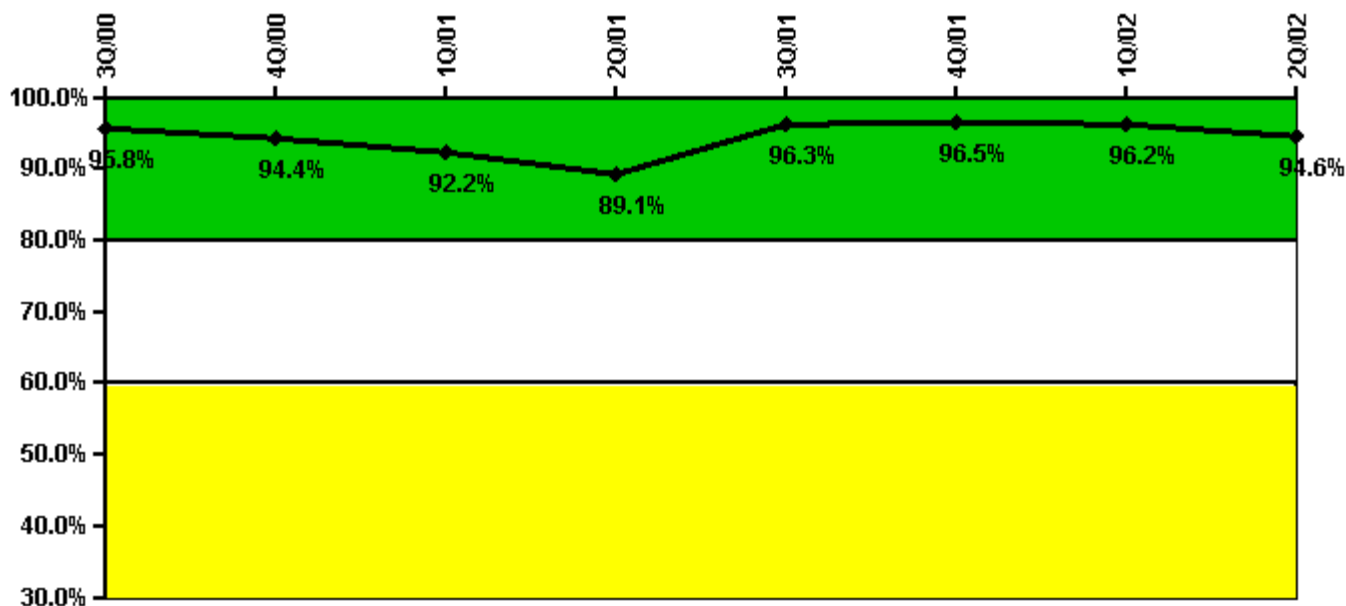
Thresholds: White < 90.0% Yellow < 70.0%

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



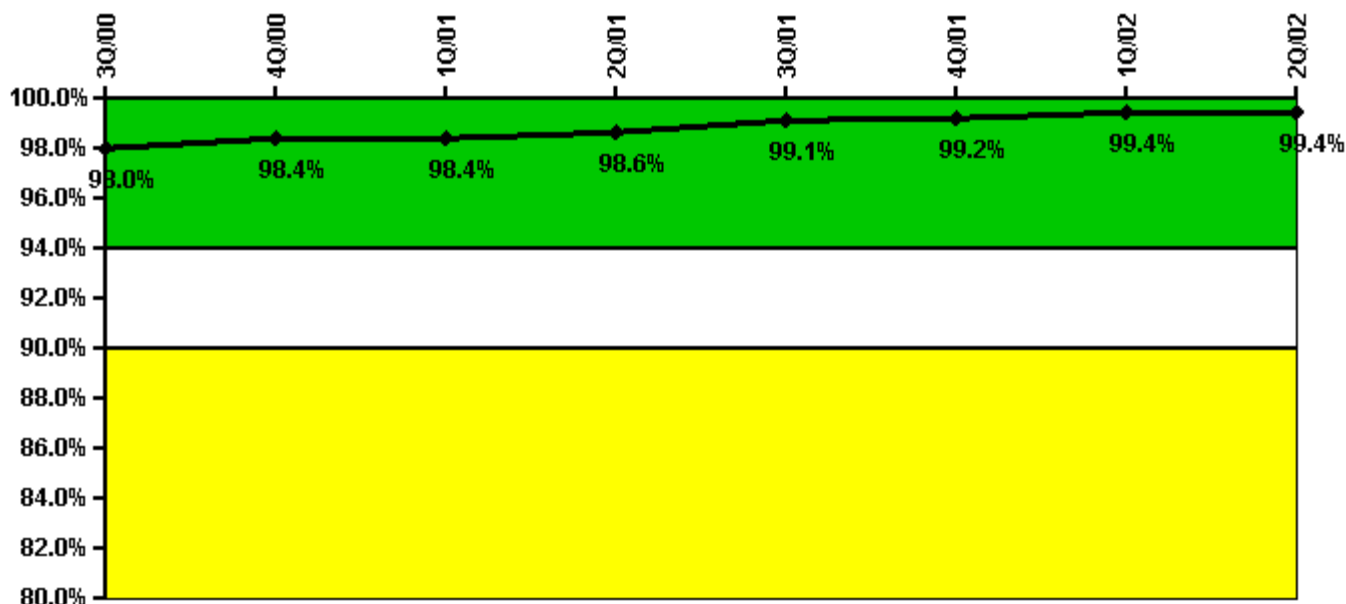
Thresholds: White < 80.0% Yellow < 60.0%

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



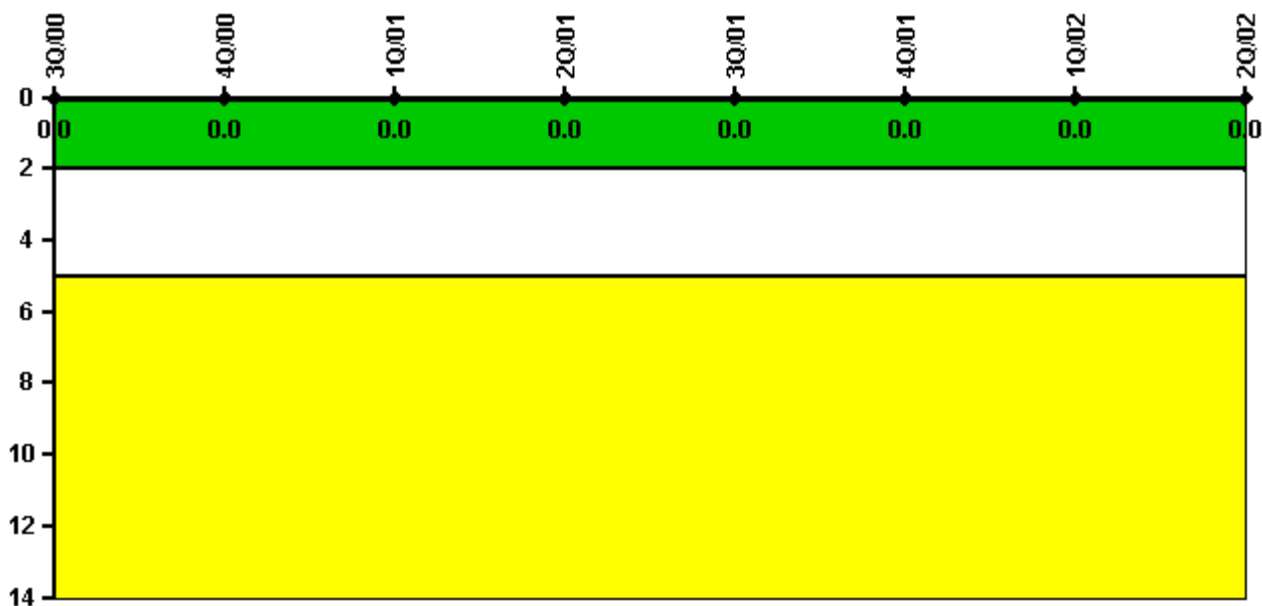
Thresholds: White < 94.0% Yellow < 90.0%

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



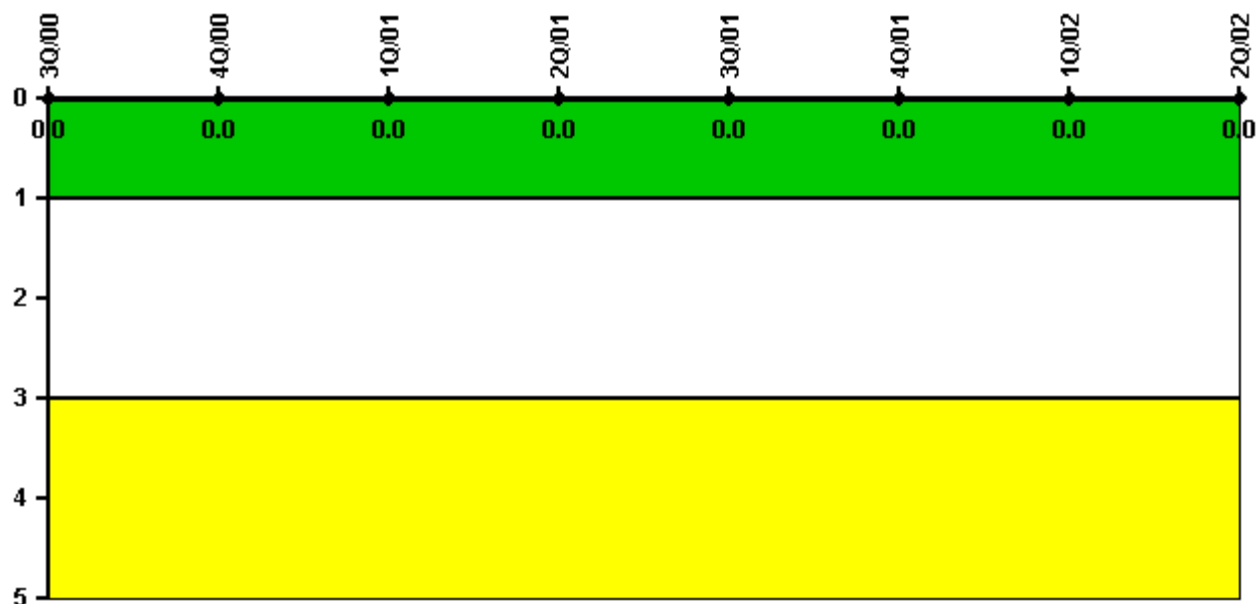
Thresholds: White > 2.0 Yellow > 5.0

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



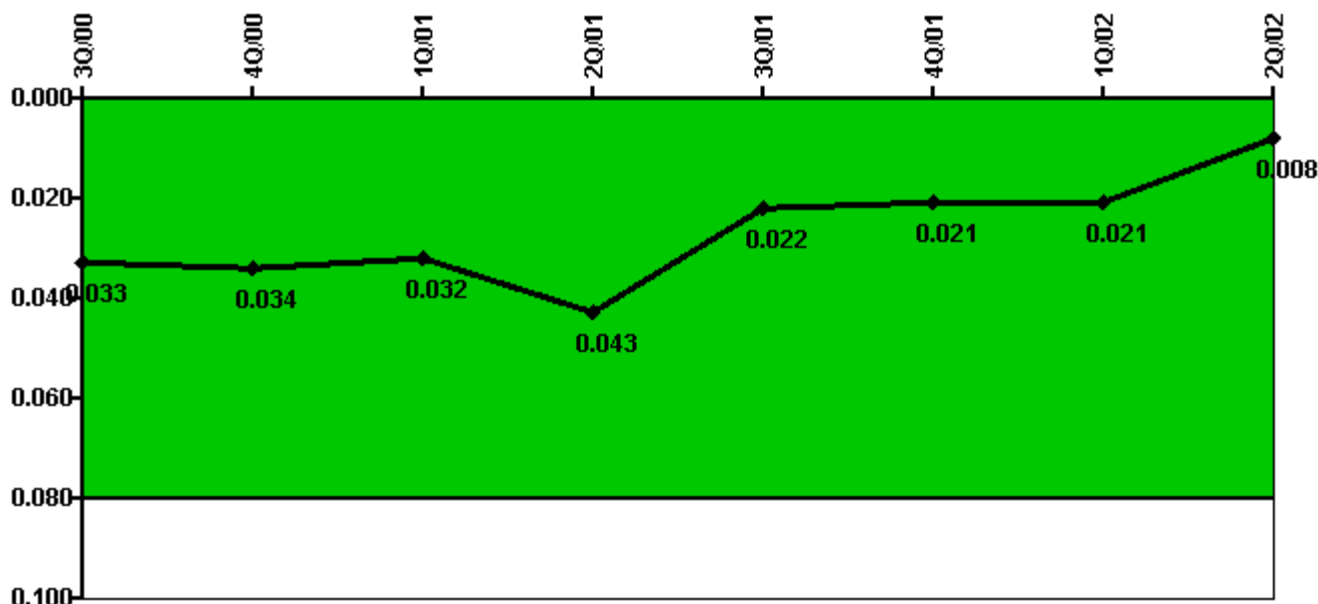
Thresholds: White > 1.0 Yellow > 3.0

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

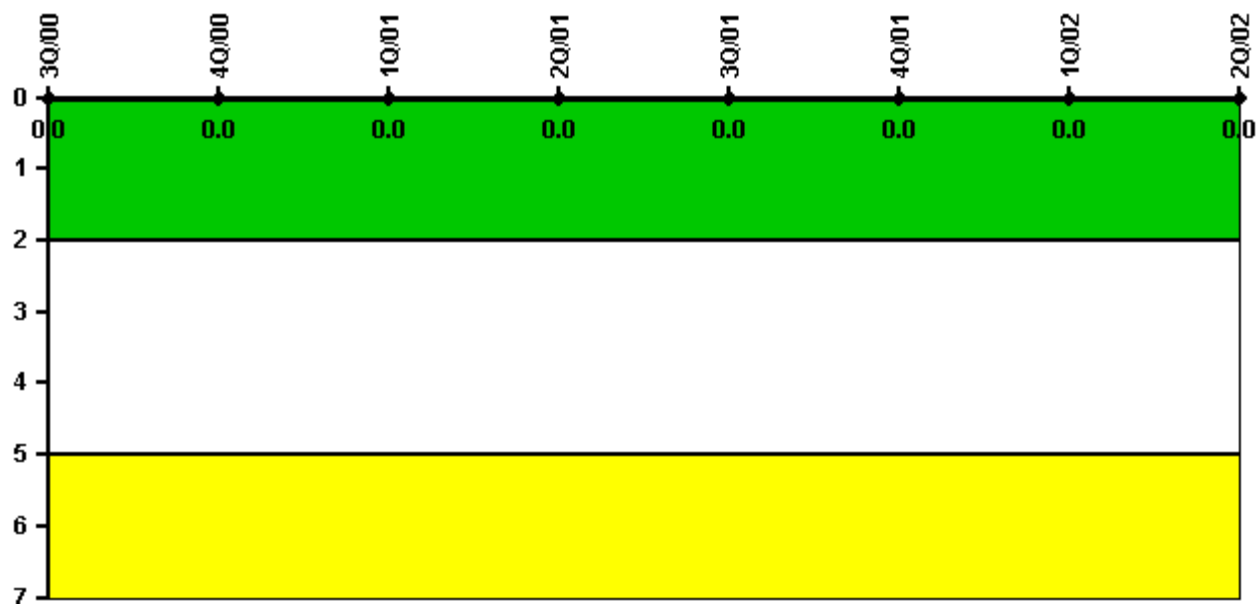
Notes

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



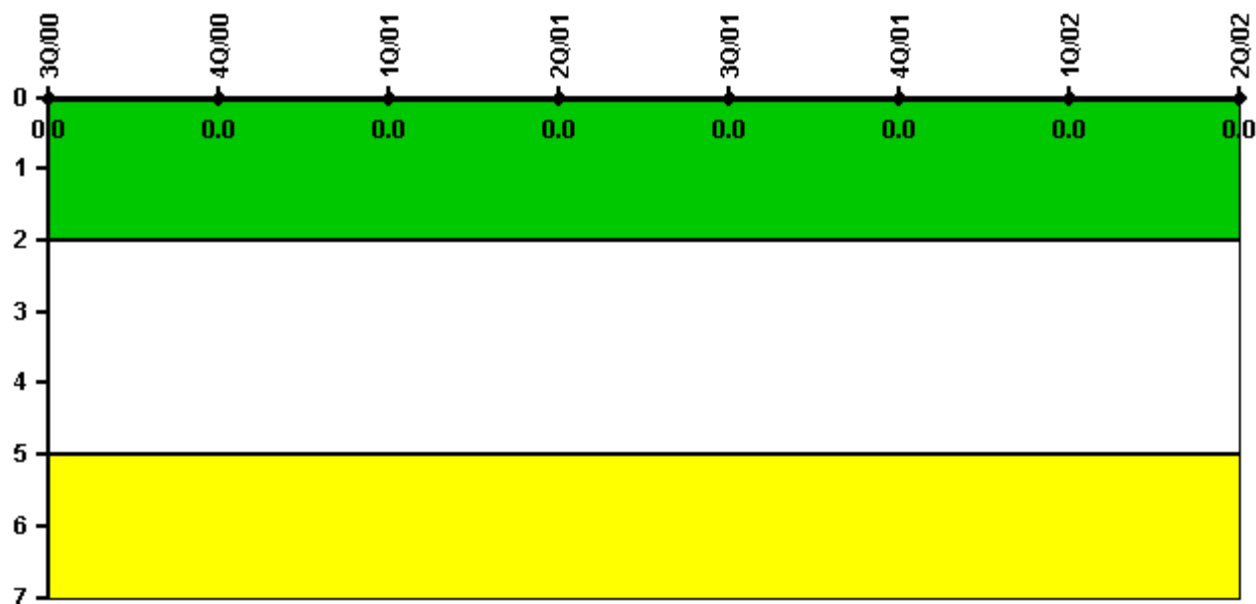
Thresholds: White > 2.0 Yellow > 5.0

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](#)

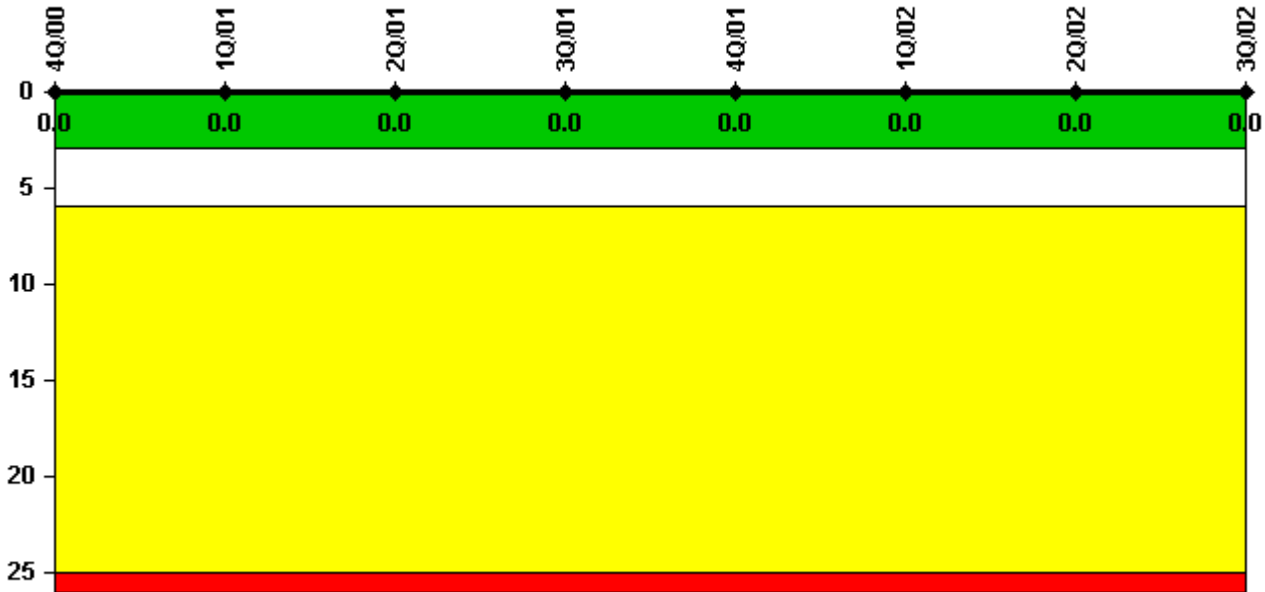
Last Modified: July 31, 2002

Surry 2

3Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



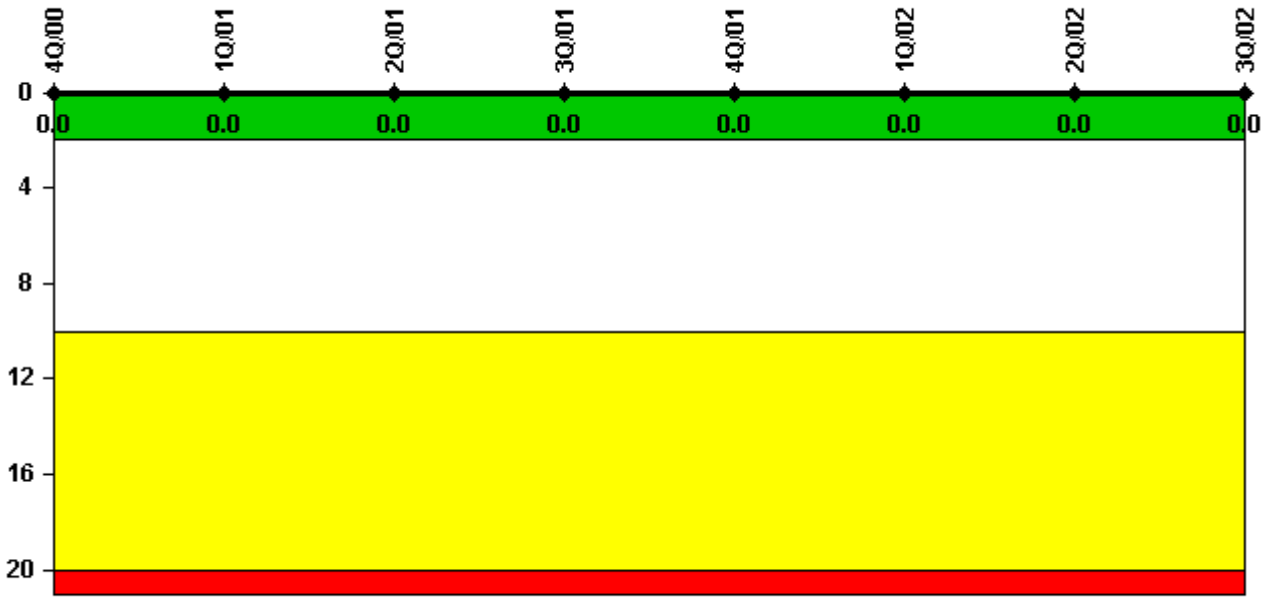
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1484.7	2122.9	1947.6	2208.0	1950.6	1968.9	1716.0	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



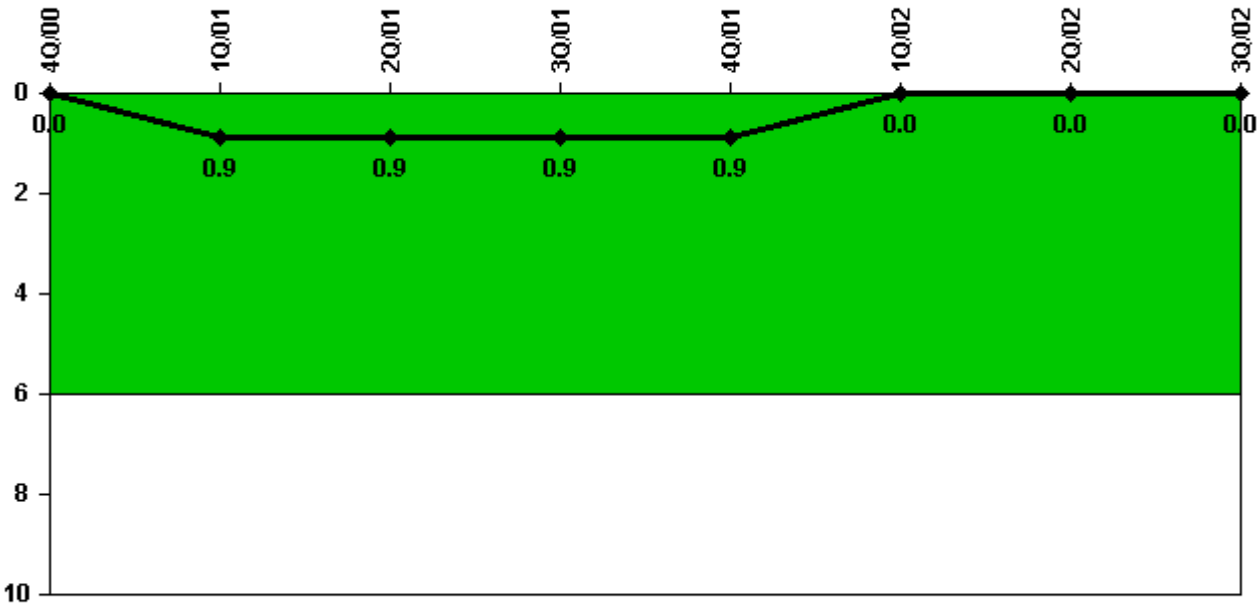
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



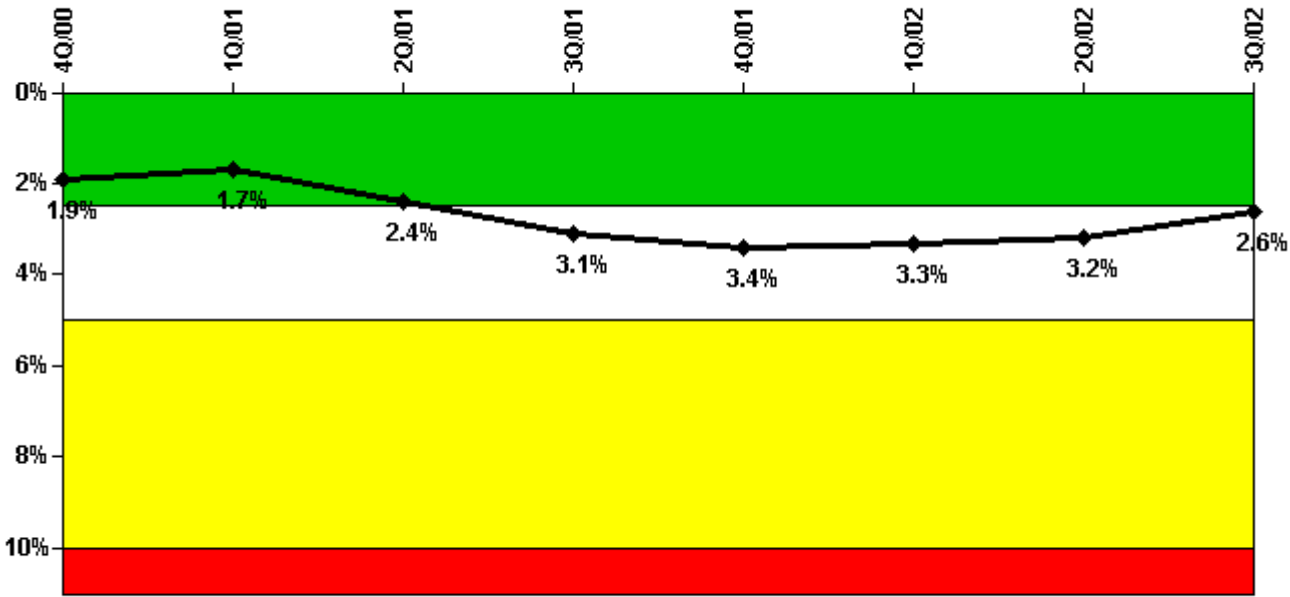
Thresholds: White > 6.0

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	1.0	0	0	0	0	0	0
Critical hours	1484.7	2122.9	1947.6	2208.0	1950.6	1968.9	1716.0	2208.0
Indicator value	0	0.9	0.9	0.9	0.9	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

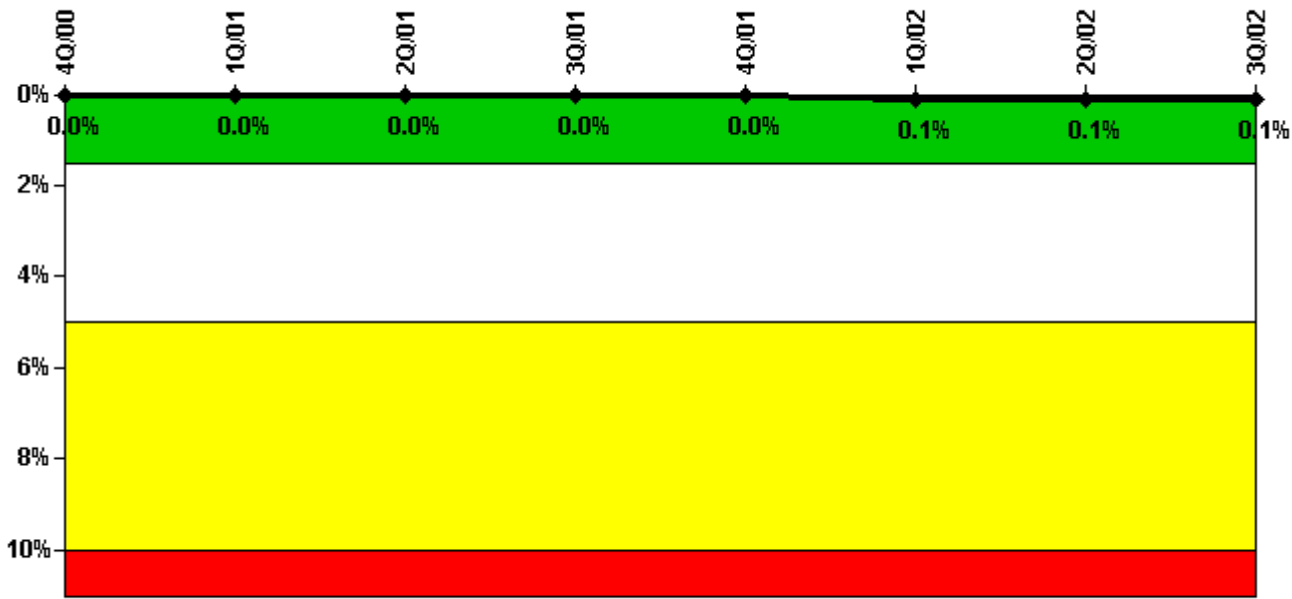
Notes

Safety System Unavailability, Emergency AC Power	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	15.07	33.44	17.17	8.00	94.71	23.48	12.57	20.43
Unplanned unavailable hours	0	0	0	28.76	135.10	10.50	0.32	0
Fault exposure hours	0	0	0	336.03	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	336.03
Required hours	2013.20	2160.00	1993.43	2208.00	2005.98	1978.30	1791.42	2208.00
Train 2								
Planned unavailable hours	19.60	25.95	10.02	30.93	44.59	15.60	25.40	22.58
Unplanned unavailable hours	10.30	0	131.35	3.53	12.57	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	2013.20	2160.00	1993.43	2208.00	2005.98	1978.30	1791.42	2208.00
Indicator value	1.9%	1.7%	2.4%	3.1%	3.4%	3.3%	3.2%	2.6%

Licensee Comments:

3Q/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 no change in color. Also, fault exposure hours were reset for 3Q2001 in accordance with NEI 99-02.

Safety System Unavailability, High Pressure Injection System (HPSI)



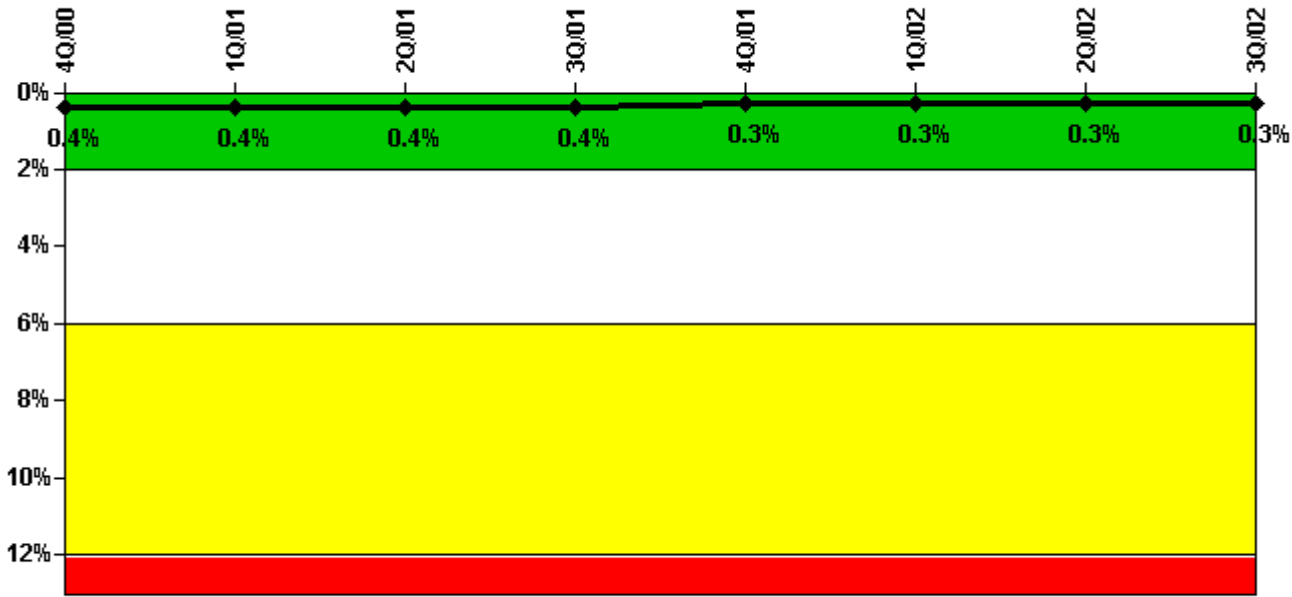
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	0	0	0	0	0	0.80	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	1557.80	2160.00	1993.40	2208.00	2006.00	1968.90	1716.00	2208.00
Train 2								
Planned unavailable hours	3.00	0.70	3.10	2.00	0.50	1.20	1.85	3.46
Unplanned unavailable hours	0	0	0	4.80	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1557.80	2160.00	1993.40	2208.00	2006.00	1968.90	1716.00	2208.00
Indicator value	0%	0%	0%	0%	0%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



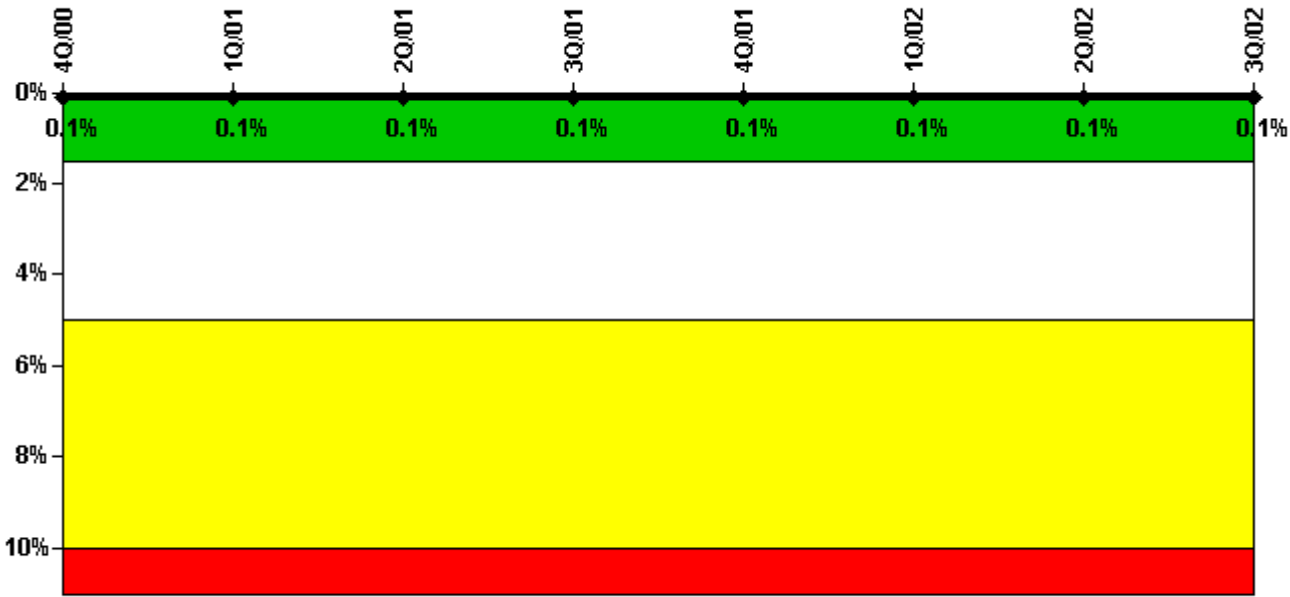
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	9.90	4.30	1.10	10.60	1.30	9.30	14.70	0.68
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1557.80	2160.00	1993.40	2208.00	2006.00	1968.90	1716.00	2208.00
Train 2								
Planned unavailable hours	0	16.50	1.40	1.40	1.50	0.60	8.70	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	1557.80	2160.00	1993.40	2208.00	2006.00	1968.90	1716.00	2208.00
Train 3								
Planned unavailable hours	2.30	1.70	9.50	2.10	1.30	11.90	1.20	1.20
Unplanned unavailable hours	0	0	0	0	0	0	3.80	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1557.80	2160.00	1993.40	2208.00	2006.00	1968.90	1716.00	2208.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.3%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



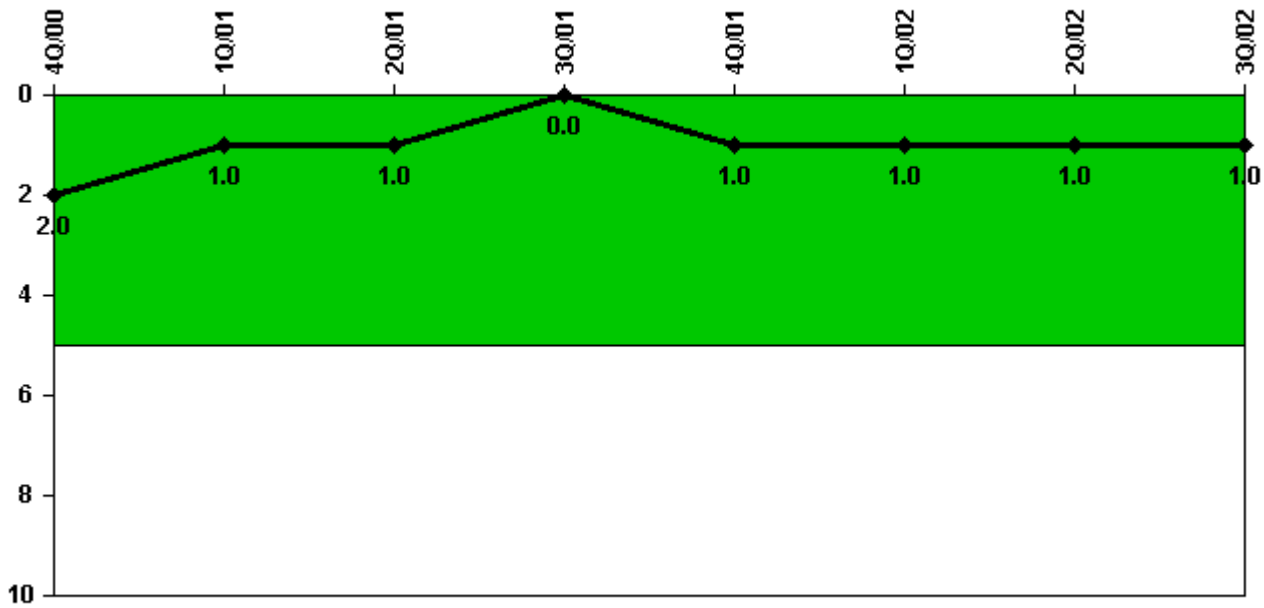
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	0	11.30	0.10	1.10	0	10.80	0.47	0.83
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	1557.80	2160.00	1993.40	2208.00	2209.00	1968.90	1716.00	2208.00
Train 2								
Planned unavailable hours	0	2.80	0.70	10.30	0.60	1.90	0	0.88
Unplanned unavailable hours	0	0	0	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	1557.80	2160.00	1993.40	2208.00	2209.00	1968.90	1716.00	2208.00
Train 3								
Planned unavailable hours	1.65	0	0.30	0	0	10.00	0	0
Unplanned unavailable hours	0	0	0	0	0	0	5.85	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2013.20	2160.00	1993.40	2208.00	2209.00	2160.00	2183.00	2208.00
Train 4								
Planned unavailable hours	0.06	0	0.40	0	0	10.20	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	2013.20	2160.00	1993.40	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 Functional Failures (PWR)



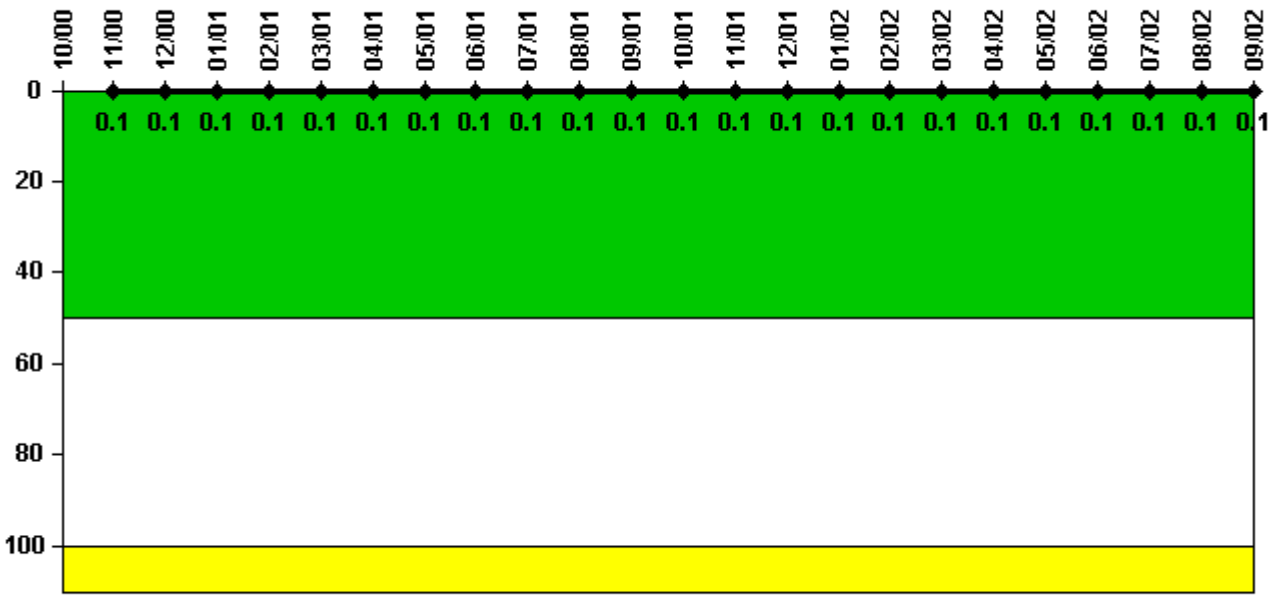
Thresholds: White > 5.0

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	2	1	1	0	1	1	1	1

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

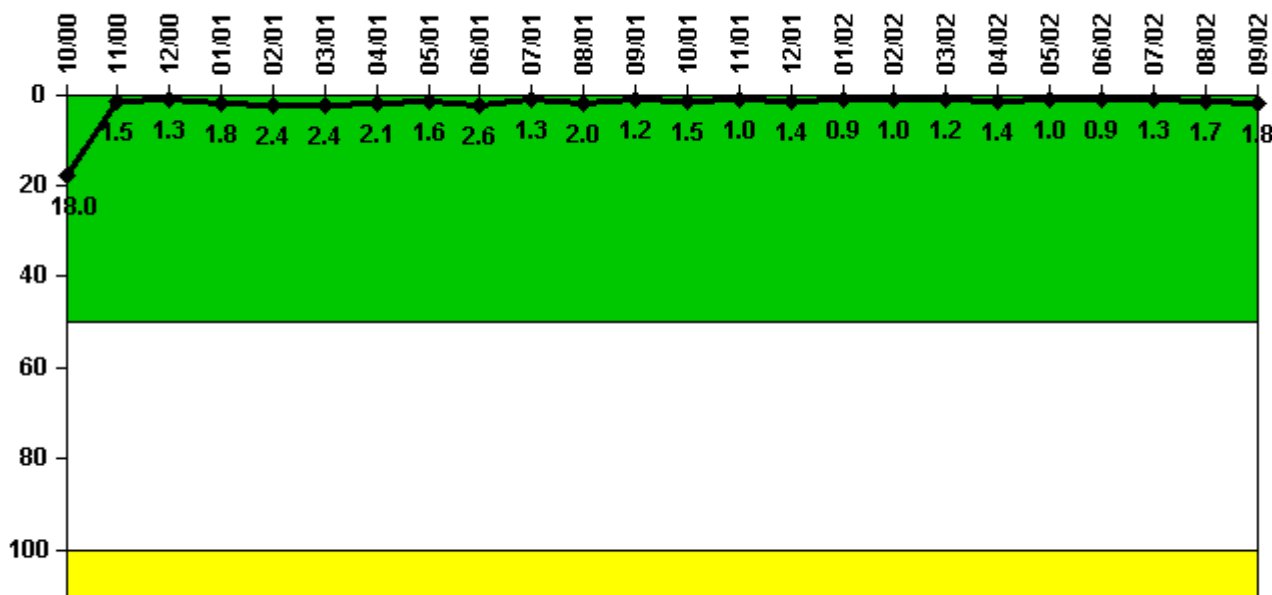
Notes

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	N/A	0.000842	0.000834	0.000951	0.000951	0.000914	0.001100	0.000977	0.001190	0.001180	0.001020	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	N/A	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	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum activity	0.001100	0.001140	0.001190	0.001140	0.001160	0.001350	0.000611	0.000791	0.000651	0.000748	0.000720	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	0.1	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

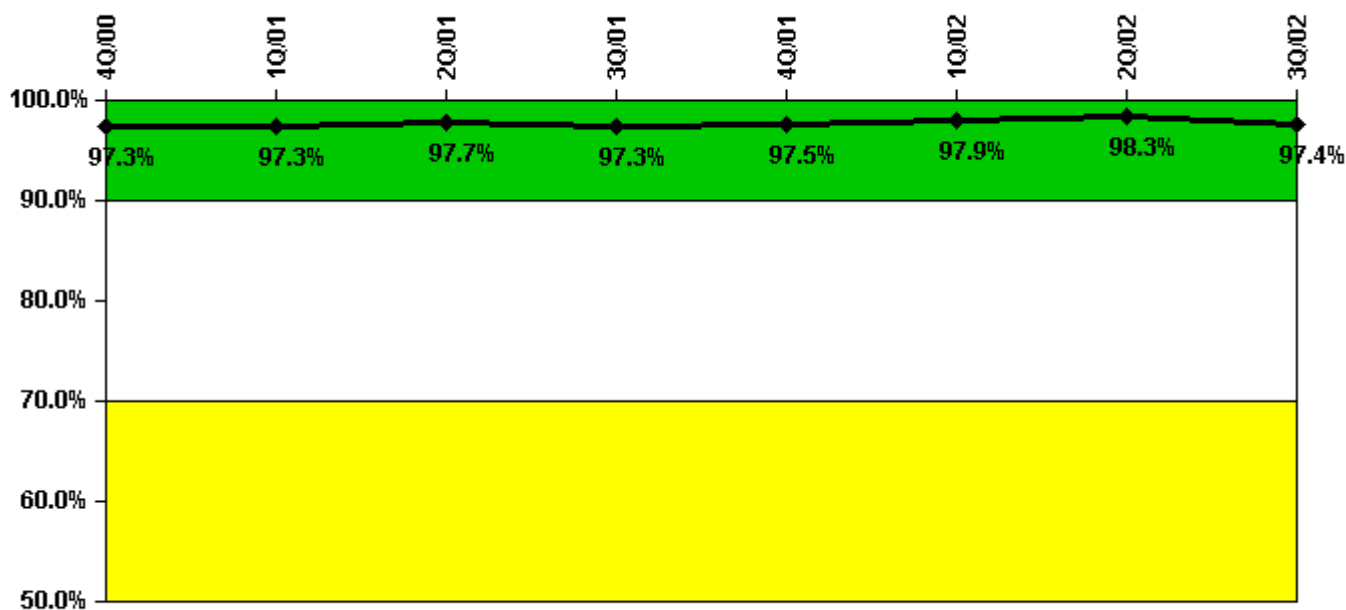
Notes

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum leakage	1.800	0.150	0.130	0.180	0.240	0.240	0.210	0.160	0.260	0.130	0.200	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	18.0	1.5	1.3	1.8	2.4	2.4	2.1	1.6	2.6	1.3	2.0	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	0.150	0.100	0.140	0.090	0.100	0.120	0.140	0.100	0.090	0.130	0.170	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	1.5	1.0	1.4	0.9	1.0	1.2	1.4	1.0	0.9	1.3	1.7	1.8

Licensee Comments: none

Drill/Exercise Performance



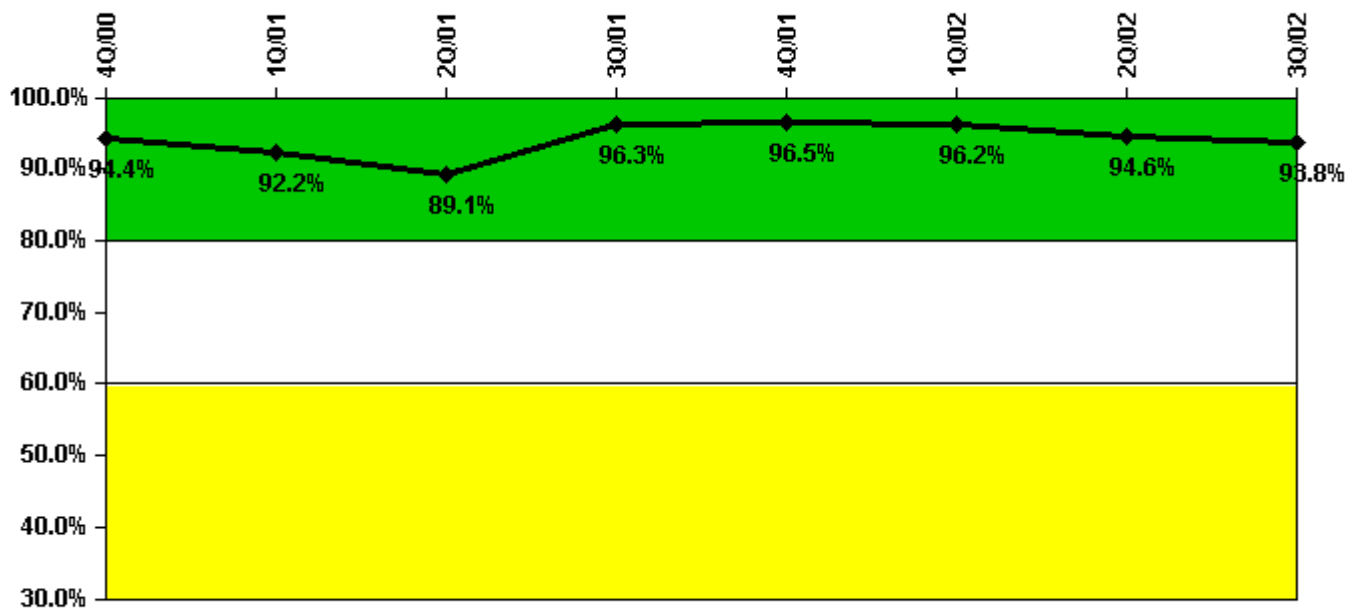
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful opportunities	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



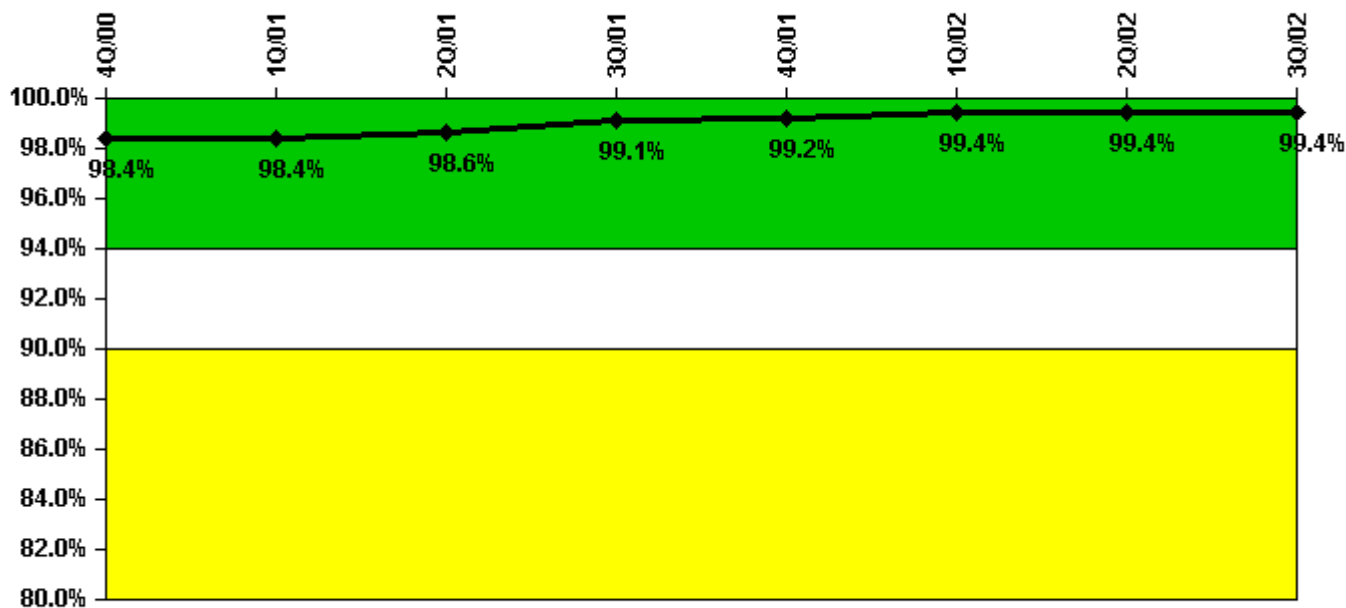
Thresholds: White < 80.0% Yellow < 60.0%

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



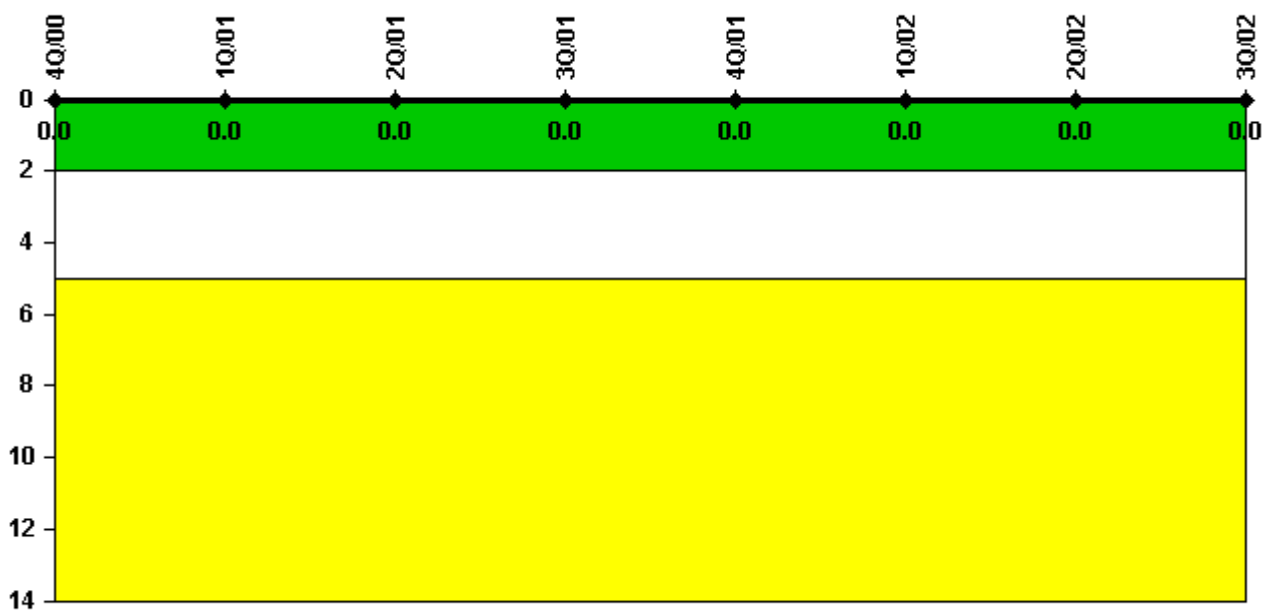
Thresholds: White < 94.0% Yellow < 90.0%

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



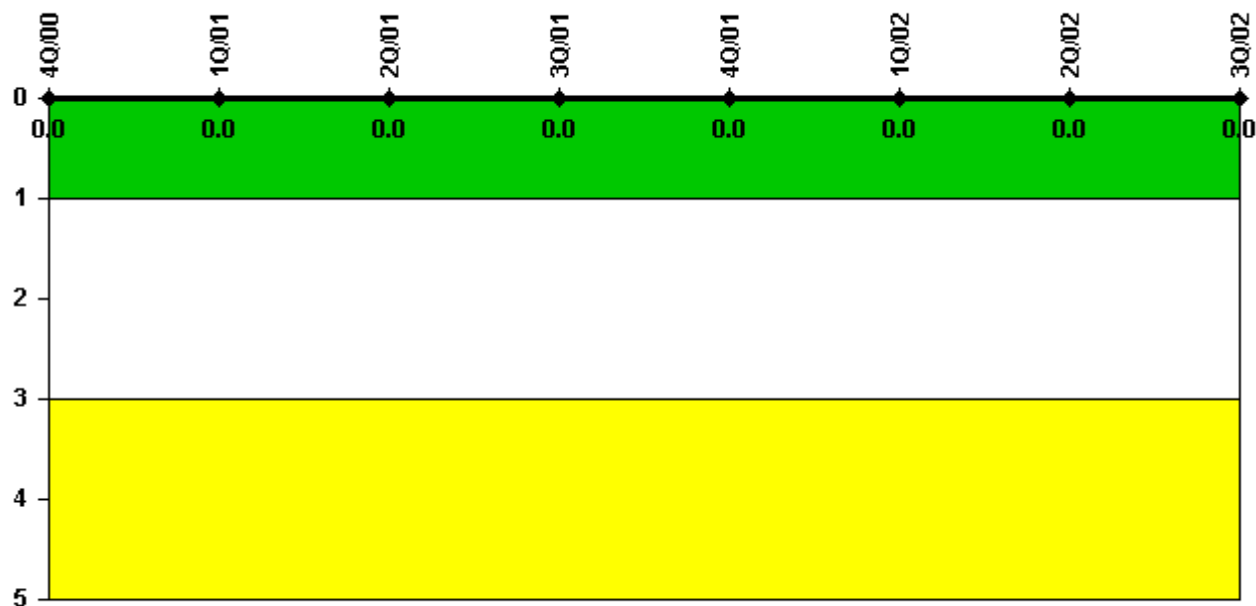
Thresholds: White > 2.0 Yellow > 5.0

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



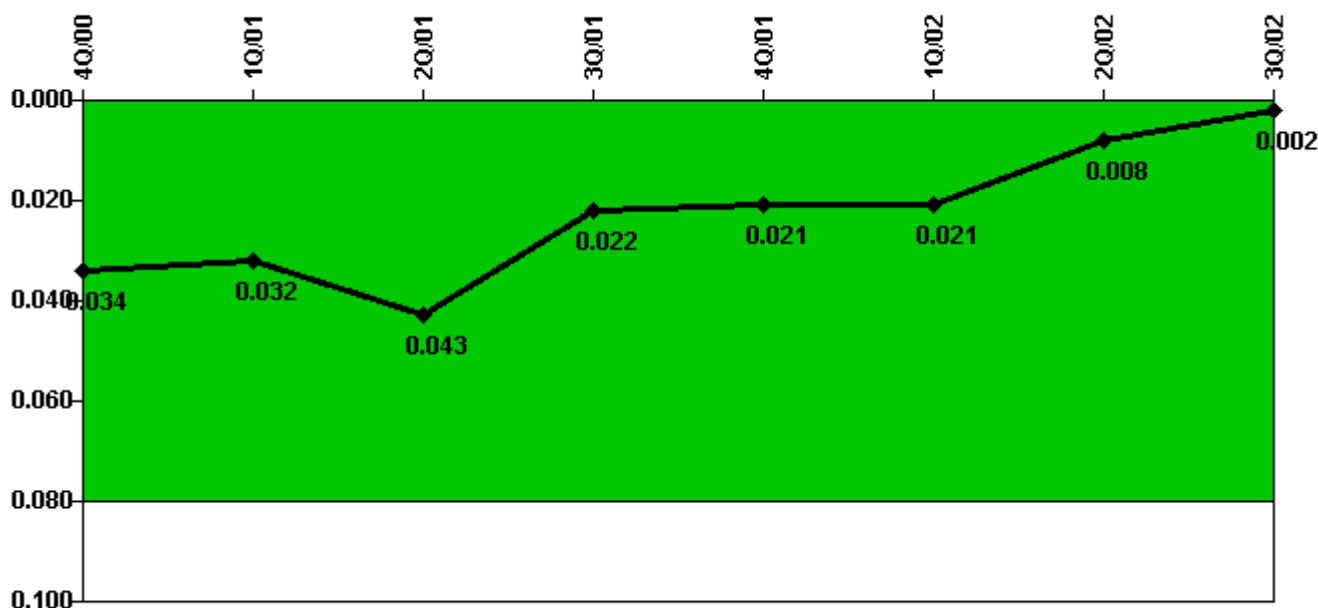
Thresholds: White > 1.0 Yellow > 3.0

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

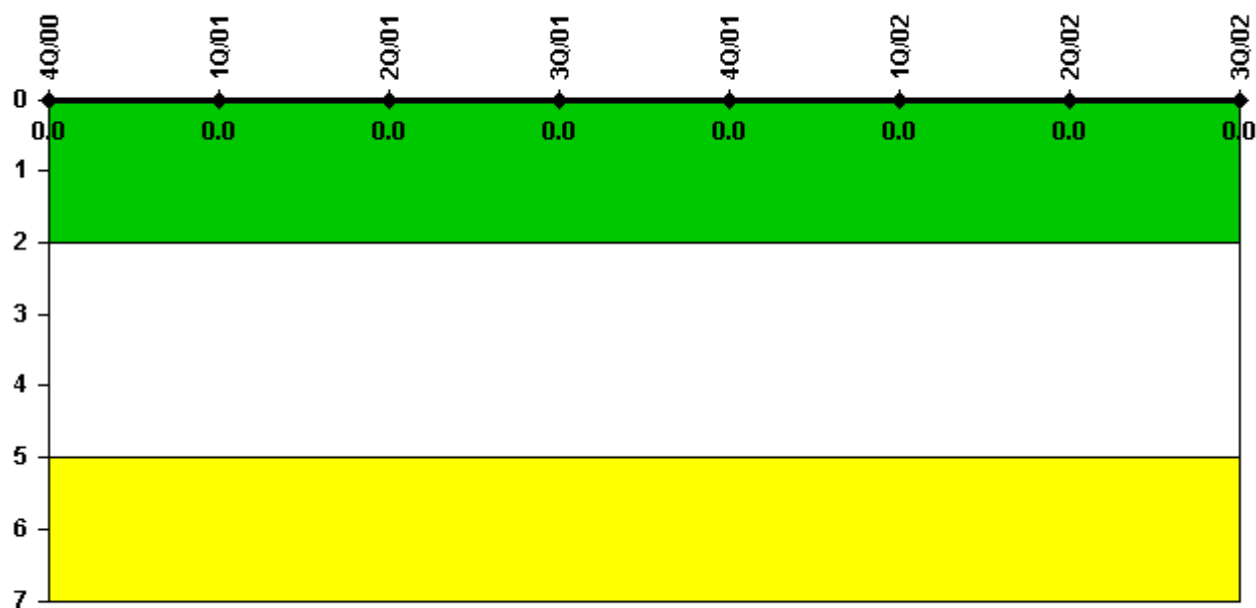
Notes

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



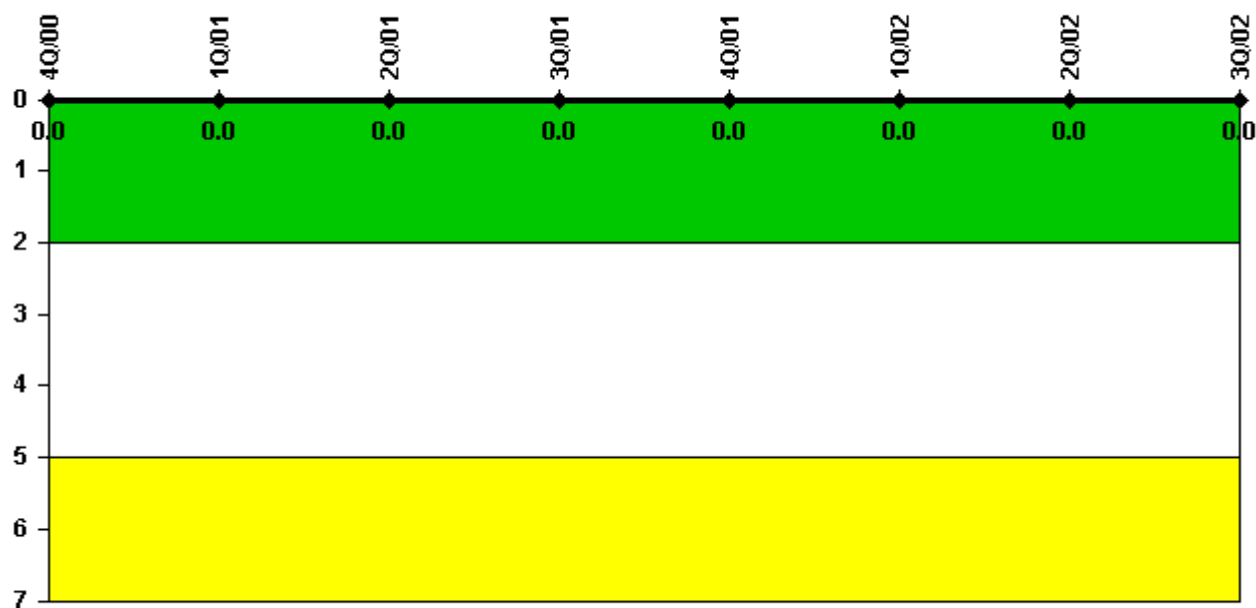
Thresholds: White > 2.0 Yellow > 5.0

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](#)

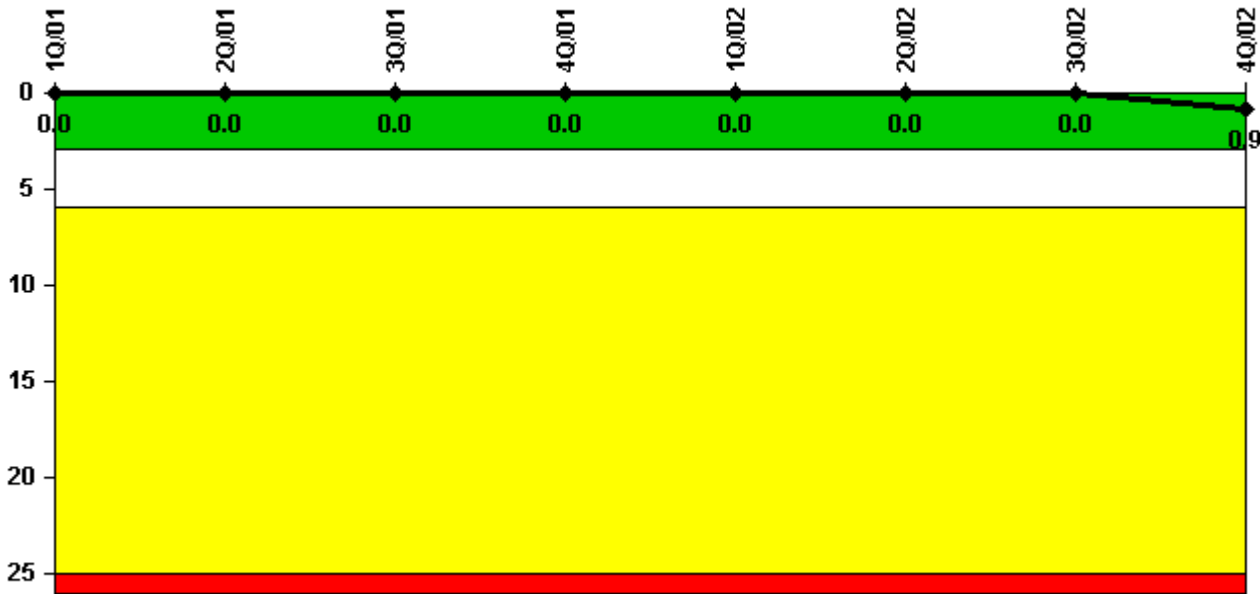
Last Modified: October 22, 2002

Surry 2

4Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



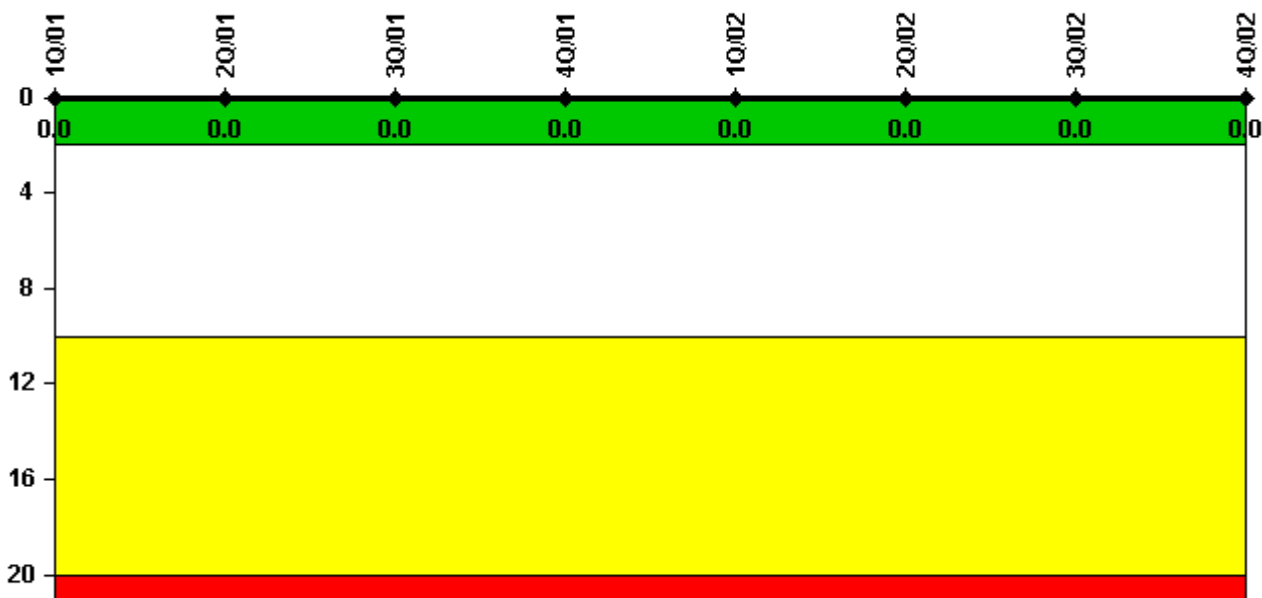
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	2122.9	1947.6	2208.0	1950.6	1968.9	1716.0	2208.0	2172.7
Indicator value	0	0	0	0	0	0	0	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



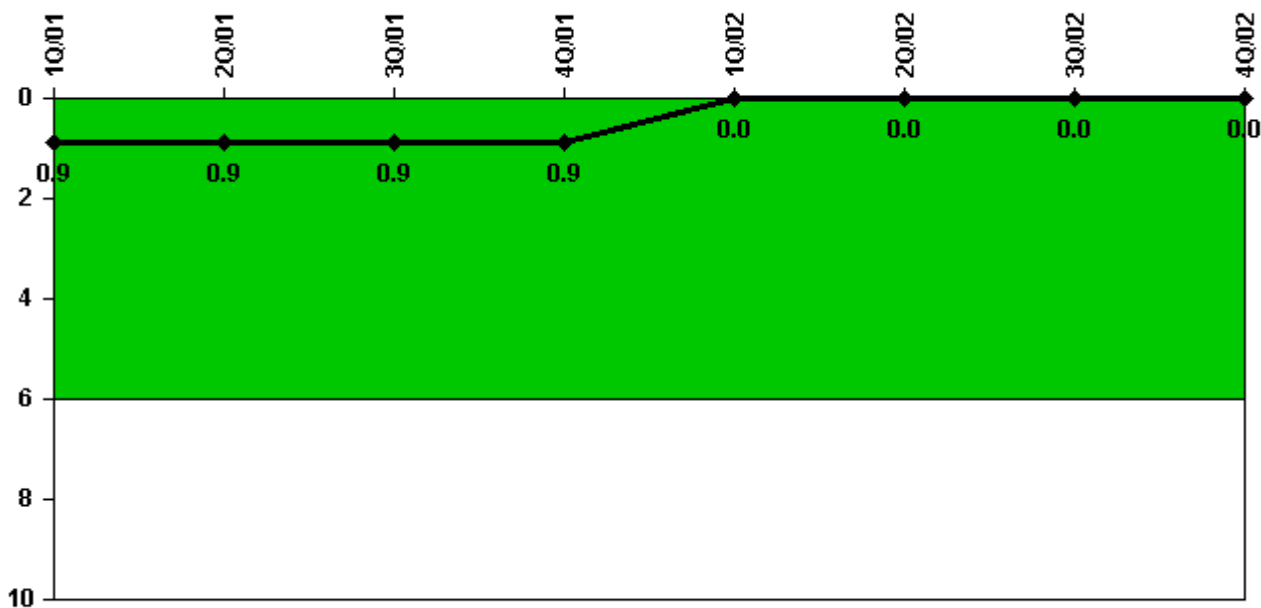
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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



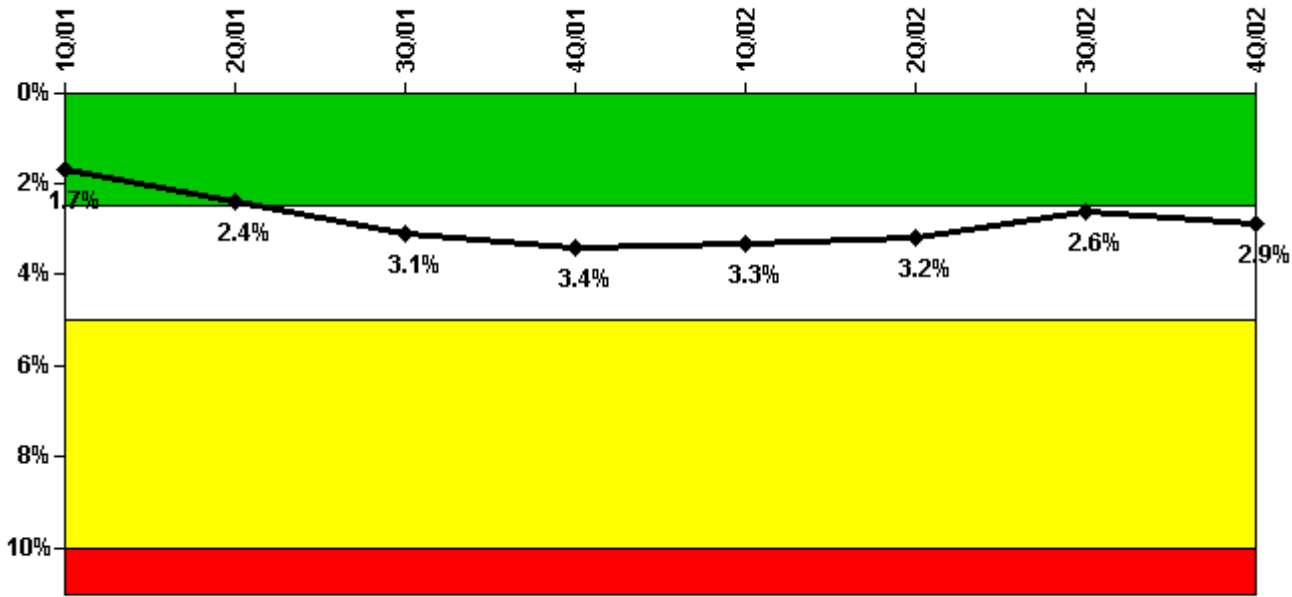
Thresholds: White > 6.0

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	1.0	0	0	0	0	0	0	0
Critical hours	2122.9	1947.6	2208.0	1950.6	1968.9	1716.0	2208.0	2172.7
Indicator value	0.9	0.9	0.9	0.9	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



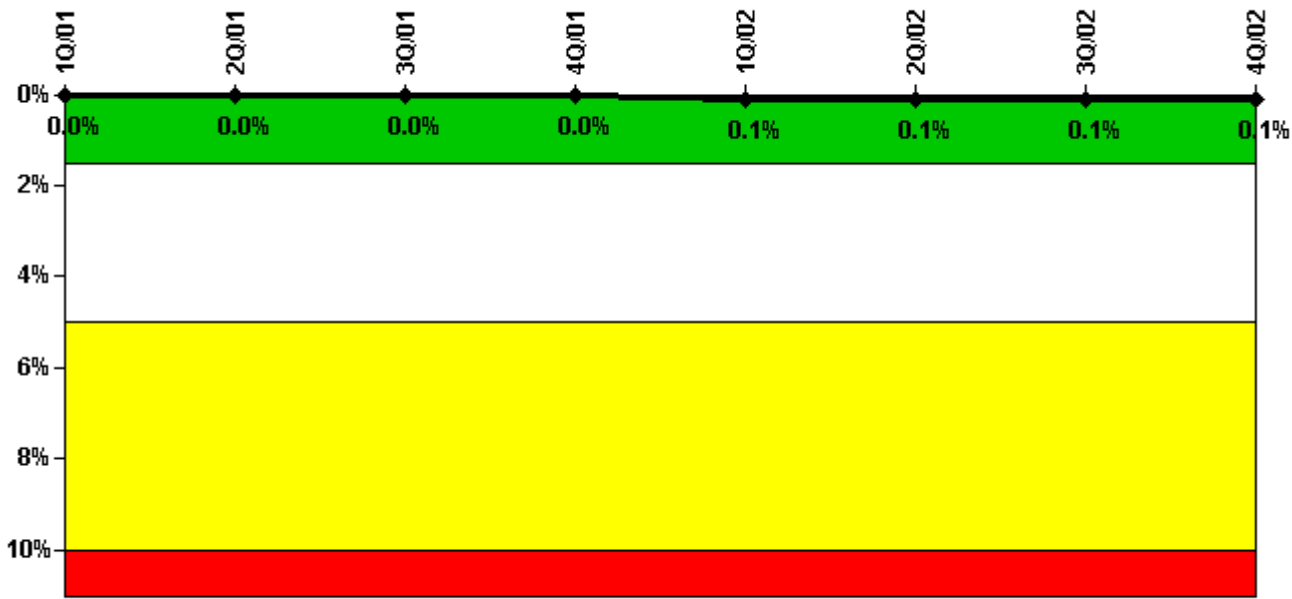
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	33.44	17.17	8.00	94.71	23.48	12.57	20.43	11.90
Unplanned unavailable hours	0	0	28.76	135.10	10.50	0.32	0	0
Fault exposure hours	0	0	336.03	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	336.03	0
Required hours	2160.00	1993.43	2208.00	2005.98	1978.30	1791.42	2208.00	2209.00
Train 2								
Planned unavailable hours	25.95	10.02	30.93	44.59	15.60	25.40	22.58	138.18
Unplanned unavailable hours	0	131.35	3.53	12.57	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	1993.43	2208.00	2005.98	1978.30	1791.42	2208.00	2209.00
Indicator value	1.7%	2.4%	3.1%	3.4%	3.3%	3.2%	2.6%	2.9%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



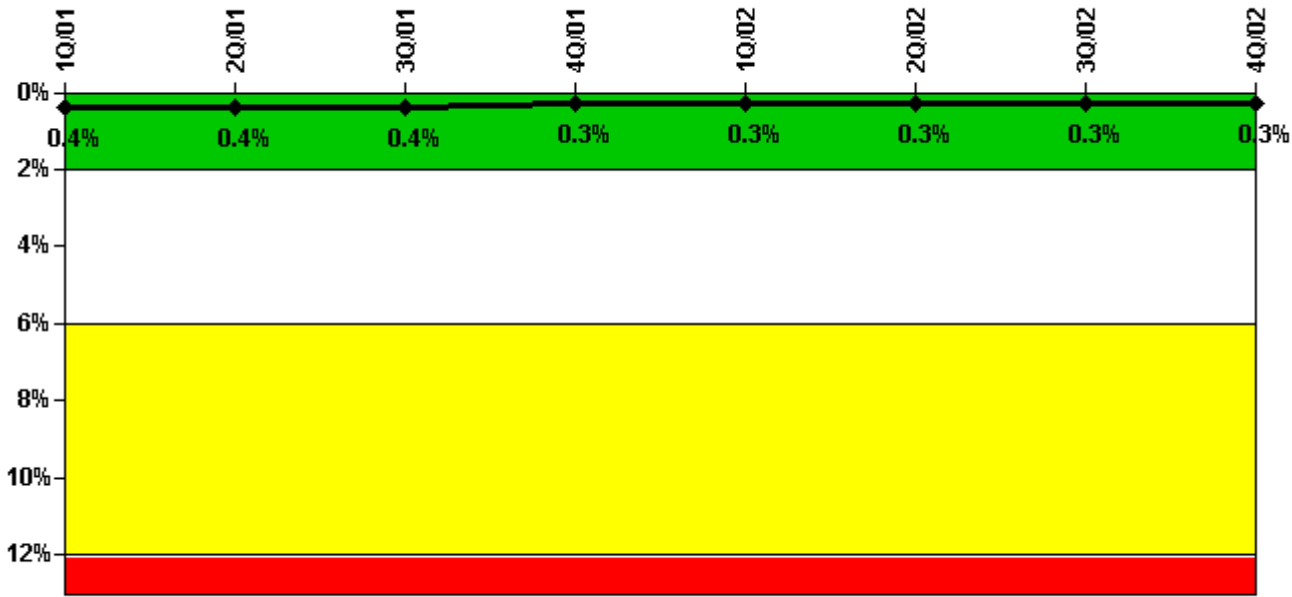
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	0	0	0	0	0	0.80	0	1.84
Unplanned unavailable hours	0	0	0	0	0	0	0	0
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	1993.40	2208.00	2006.00	1968.90	1716.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0.70	3.10	2.00	0.50	1.20	1.85	3.46	12.16
Unplanned unavailable hours	0	0	4.80	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	2160.00	1993.40	2208.00	2006.00	1968.90	1716.00	2208.00	2209.00
Indicator value	0%	0%	0%	0%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



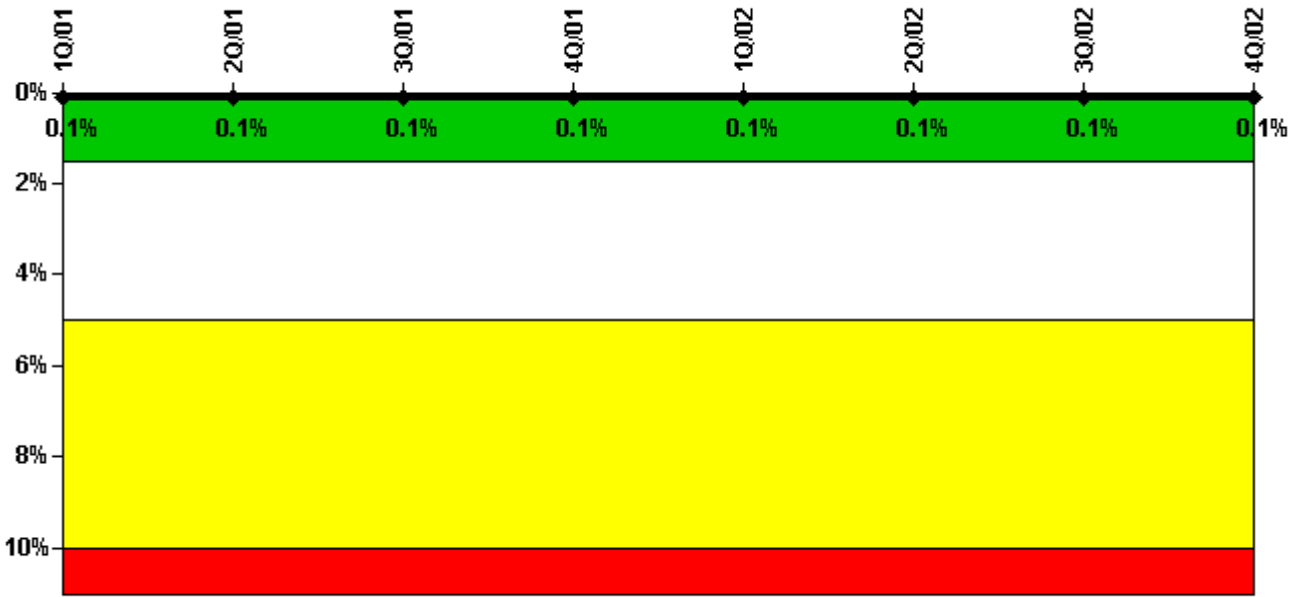
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	4.30	1.10	10.60	1.30	9.30	14.70	0.68	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	2160.00	1993.40	2208.00	2006.00	1968.90	1716.00	2208.00	2209.00
Train 2								
Planned unavailable hours	16.50	1.40	1.40	1.50	0.60	8.70	0.95	0.82
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1993.40	2208.00	2006.00	1968.90	1716.00	2208.00	2209.00
Train 3								
Planned unavailable hours	1.70	9.50	2.10	1.30	11.90	1.20	1.20	1.80
Unplanned unavailable hours	0	0	0	0	0	3.80	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1993.40	2208.00	2006.00	1968.90	1716.00	2208.00	2209.00
Indicator value	0.4%	0.4%	0.4%	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%

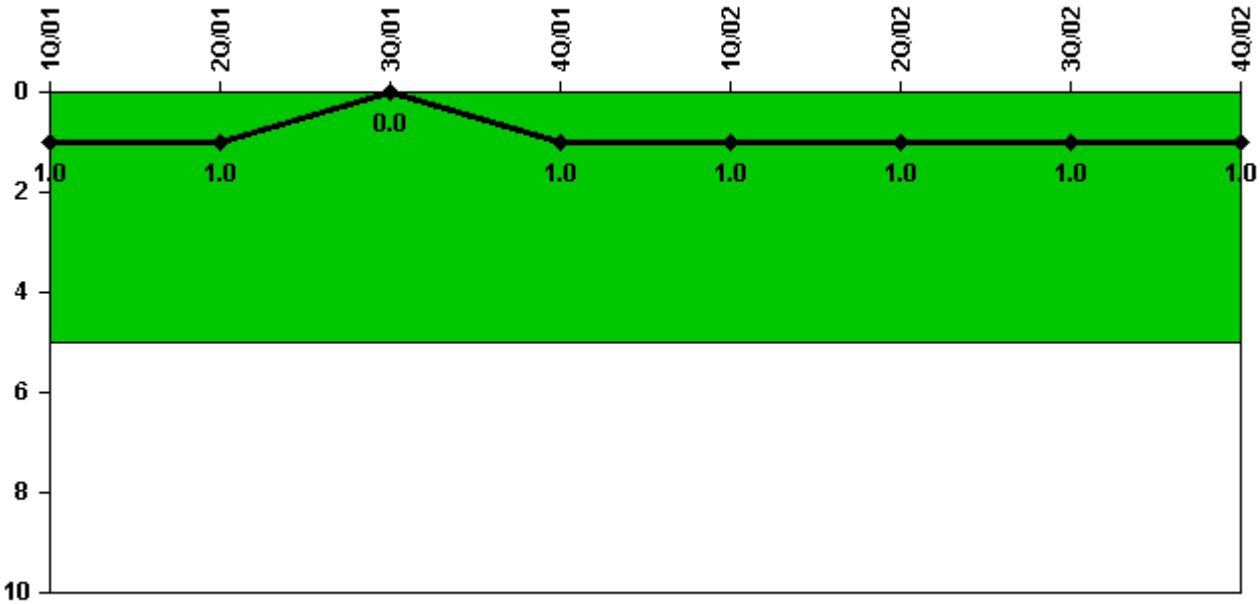
Notes

Safety System Unavailability, Residual Heat Removal System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	11.30	0.10	1.10	0	10.80	0.47	0.83	5.79
Unplanned unavailable hours	0	0	0	0	0	0	0	0.25
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	1993.40	2208.00	2209.00	1968.90	1716.00	2208.00	2209.00
Train 2								
Planned unavailable hours	2.80	0.70	10.30	0.60	1.90	0	0.88	23.45
Unplanned unavailable hours	0	0	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	2160.00	1993.40	2208.00	2209.00	1968.90	1716.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0.30	0	0	10.00	0	0	0
Unplanned unavailable hours	0	0	0	0	0	5.85	0	0
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	1993.40	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 4								
Planned unavailable hours	0	0.40	0	0	10.20	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	1993.40	2208.00	2209.00	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:

4Q/02: Low Head Safety Injection system valve in train 1 was mispositioned as described in Licensee Event Report 50-281/2002-002-00 resulting in 84 hours of T/2 fault exposure hours.

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

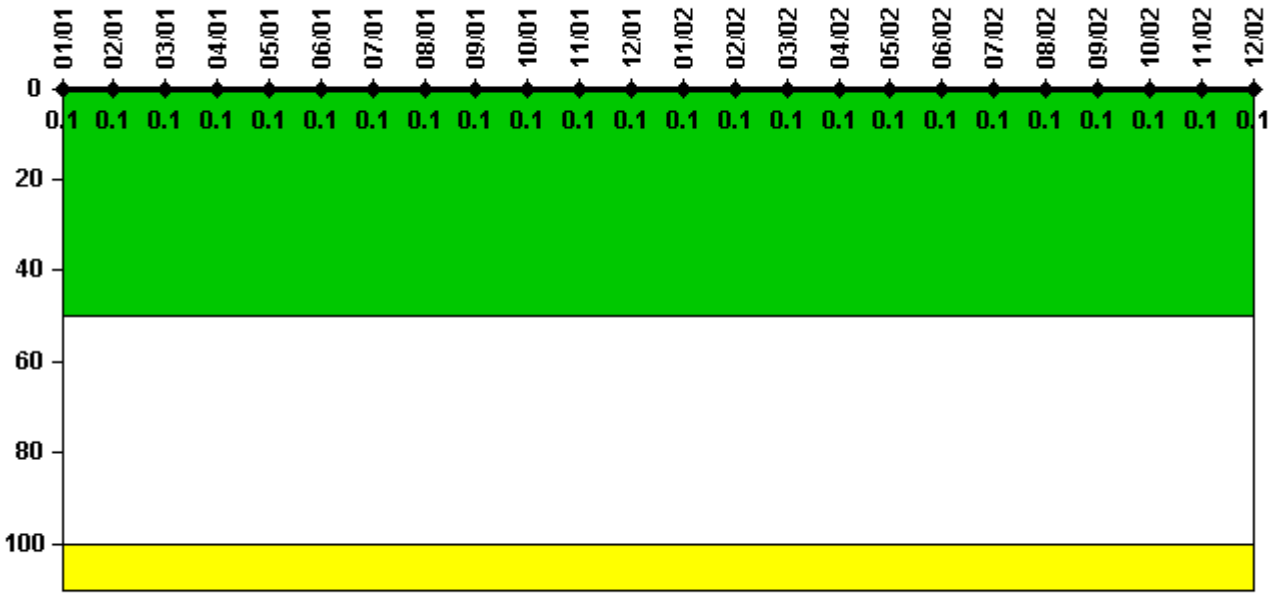
Notes

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	1
Indicator value	1	1	0	1	1	1	1	1

Licensee Comments:

4Q/02: Refer to Licensee Event Report 50-281/2002-002-00

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

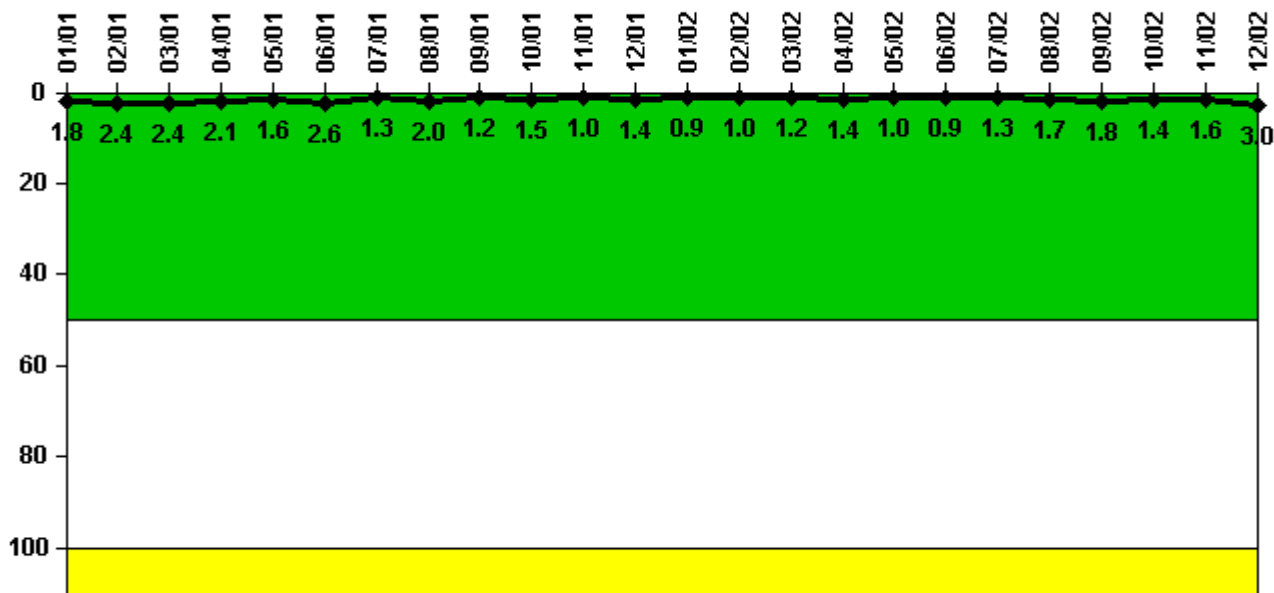
Notes

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	0.000951	0.000951	0.000914	0.001100	0.000977	0.001190	0.001180	0.001020	0.001060	0.001100	0.001140	0.001190
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Reactor Coolant System Activity	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	0.001140	0.001160	0.001350	0.000611	0.000791	0.000651	0.000748	0.000720	0.000722	0.000729	0.000738	0.000758
Technical specification limit	1.0	1.0	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

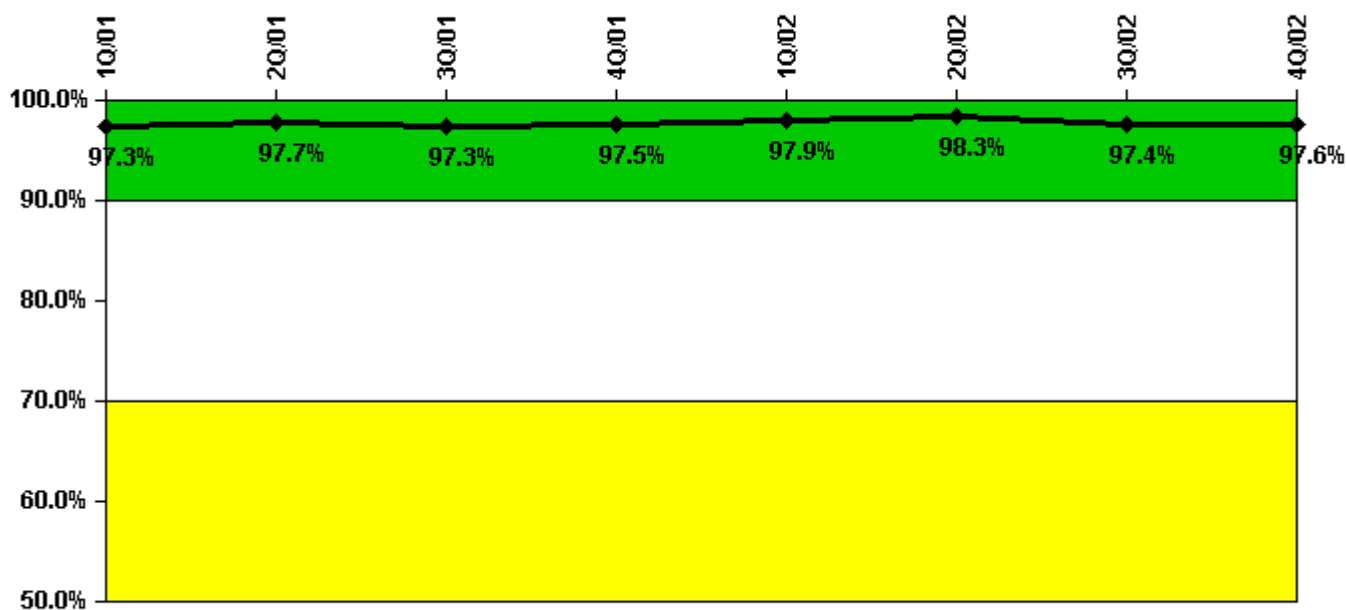
Notes

Reactor Coolant System Leakage	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum leakage	0.180	0.240	0.240	0.210	0.160	0.260	0.130	0.200	0.120	0.150	0.100	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	2.4	2.4	2.1	1.6	2.6	1.3	2.0	1.2	1.5	1.0	1.4

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	0.090	0.100	0.120	0.140	0.100	0.090	0.130	0.170	0.180	0.140	0.160	0.300
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.9	1.0	1.2	1.4	1.0	0.9	1.3	1.7	1.8	1.4	1.6	3.0

Licensee Comments: none

Drill/Exercise Performance



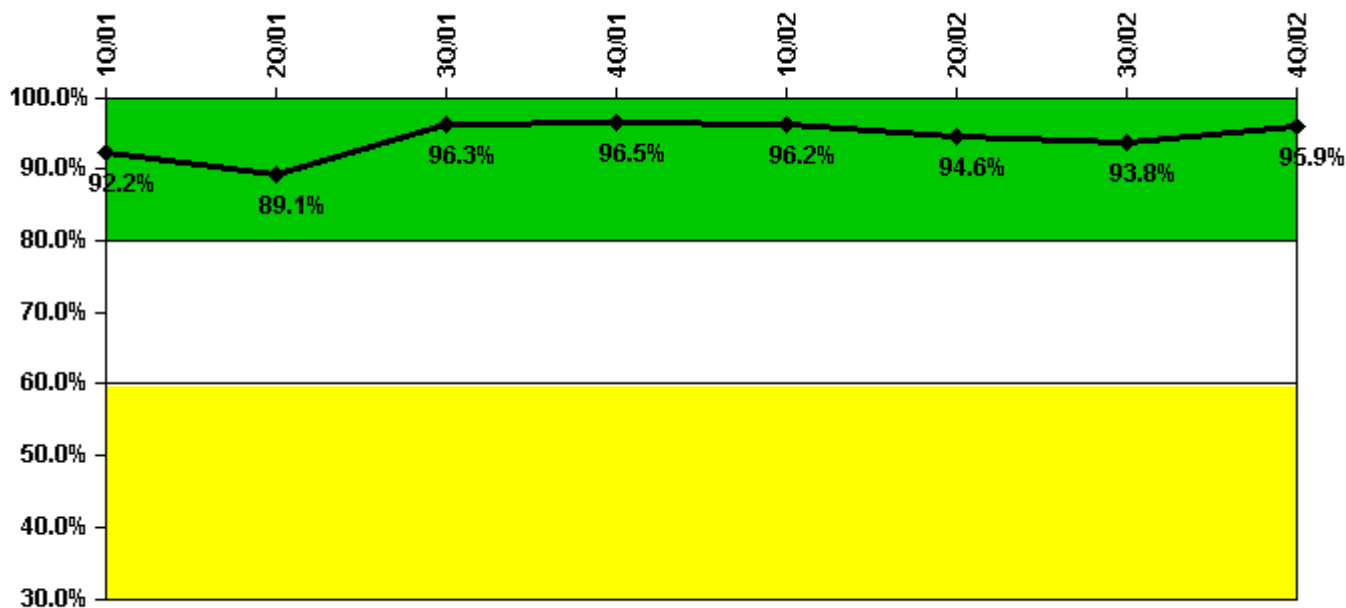
Thresholds: White < 90.0% Yellow < 70.0%

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



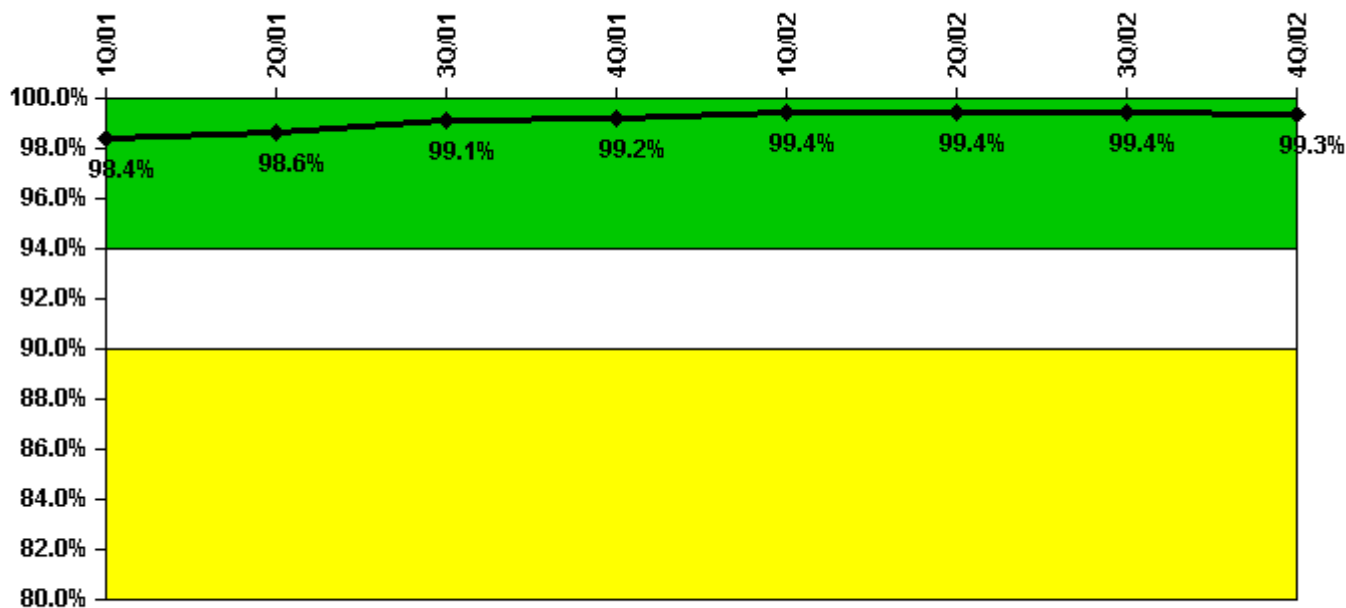
Thresholds: White < 80.0% Yellow < 60.0%

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



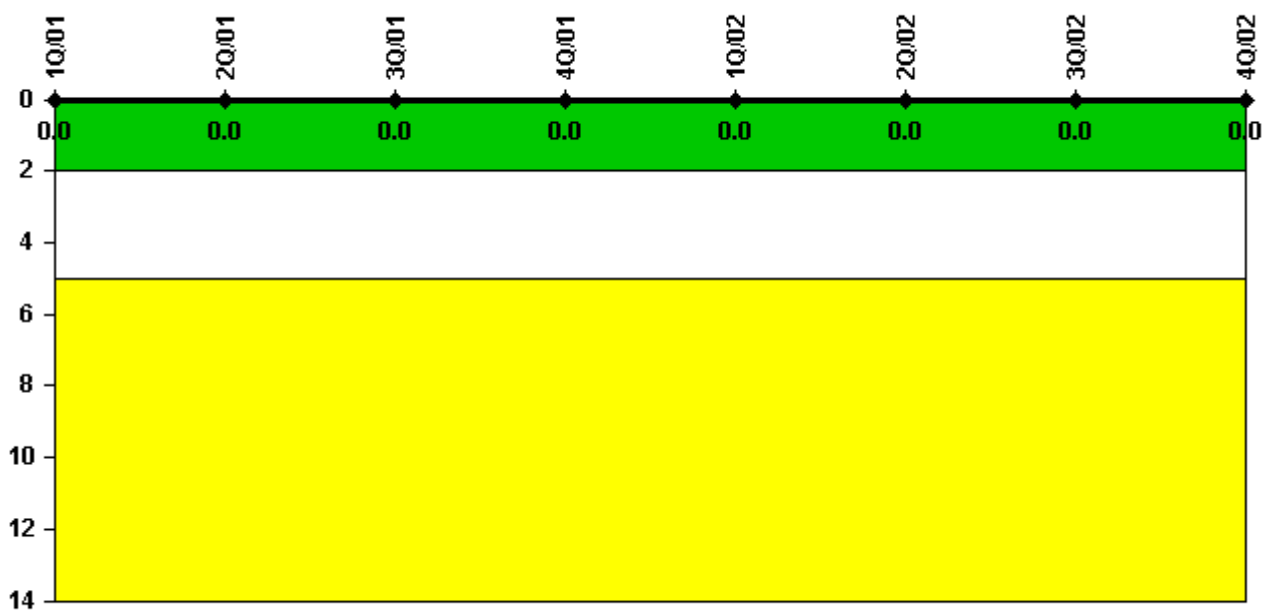
Thresholds: White < 94.0% Yellow < 90.0%

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



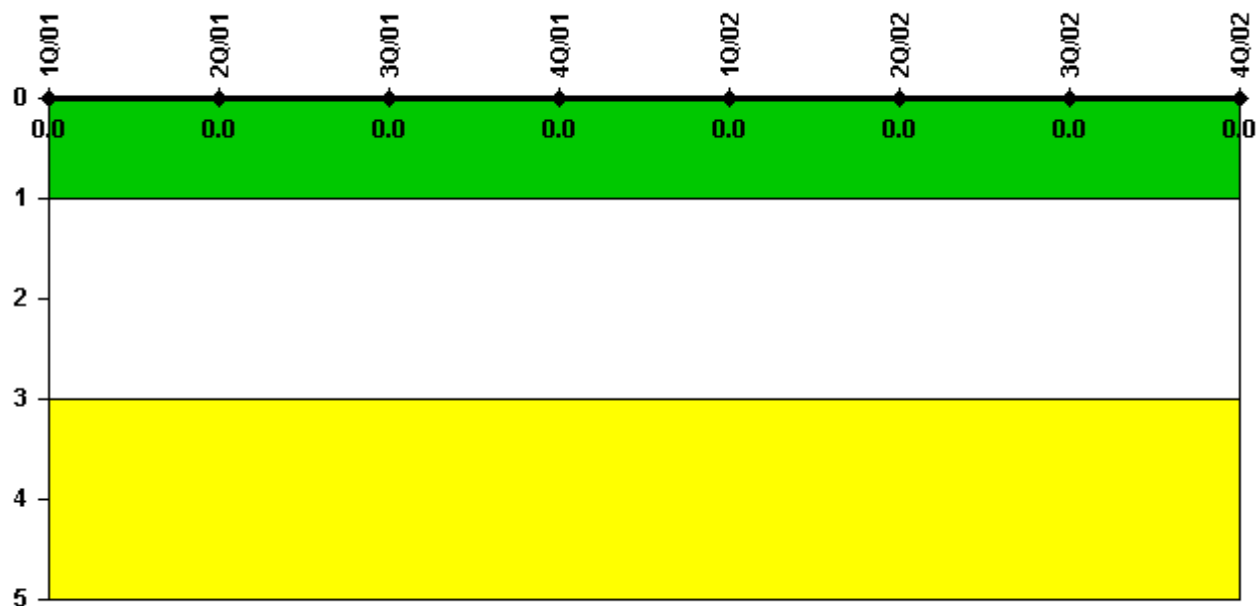
Thresholds: White > 2.0 Yellow > 5.0

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



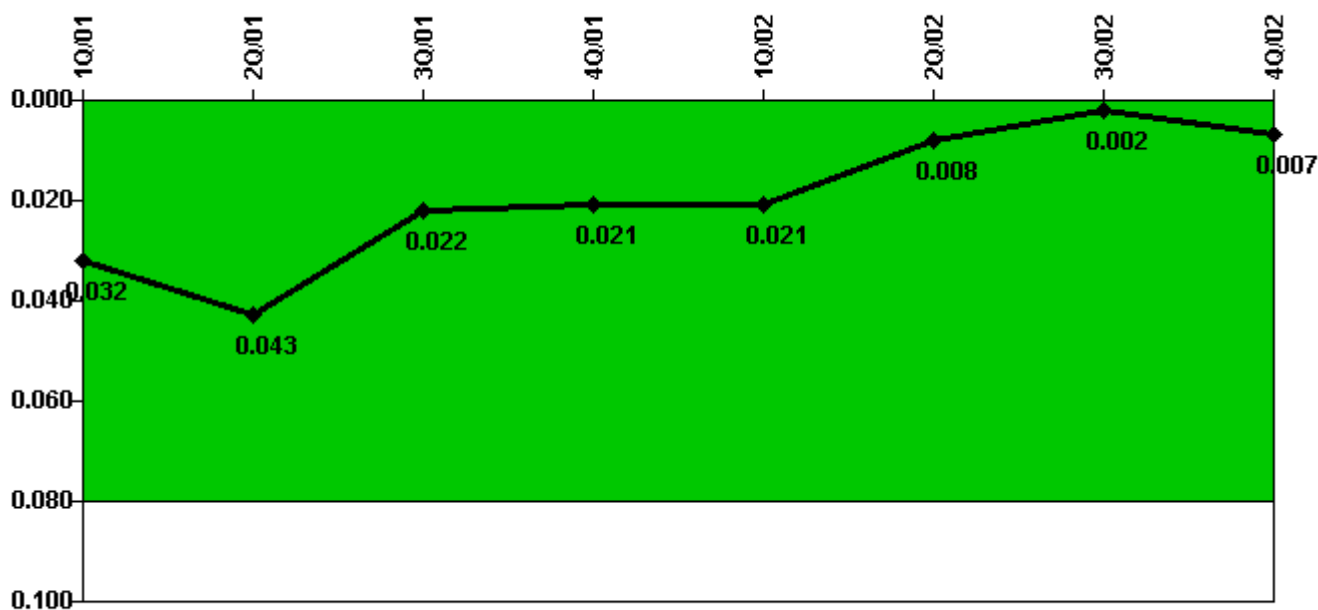
Thresholds: White > 1.0 Yellow > 3.0

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

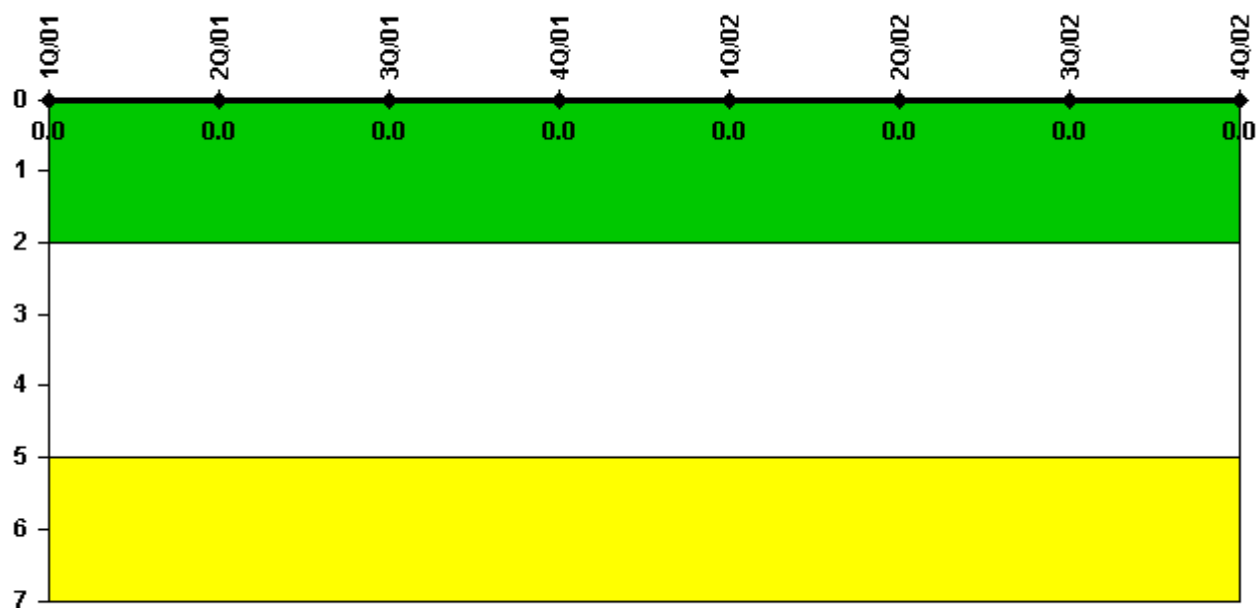


Thresholds: White > 0.080

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



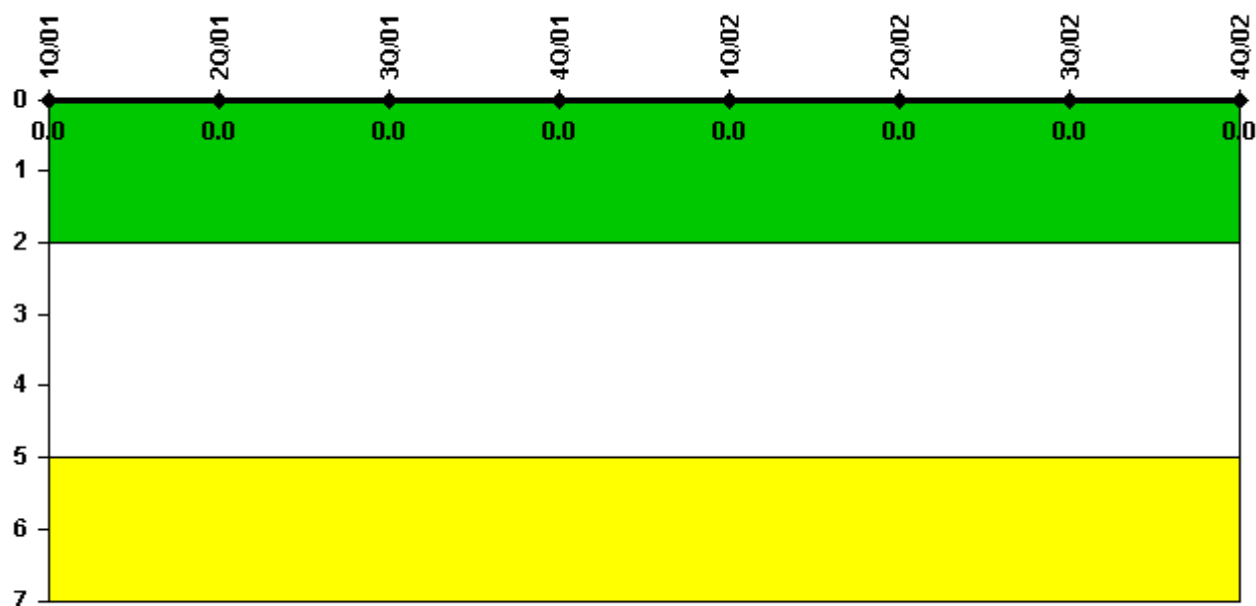
Thresholds: White > 2.0 Yellow > 5.0

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

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Last Modified: January 30, 2003

Surry 2

1Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



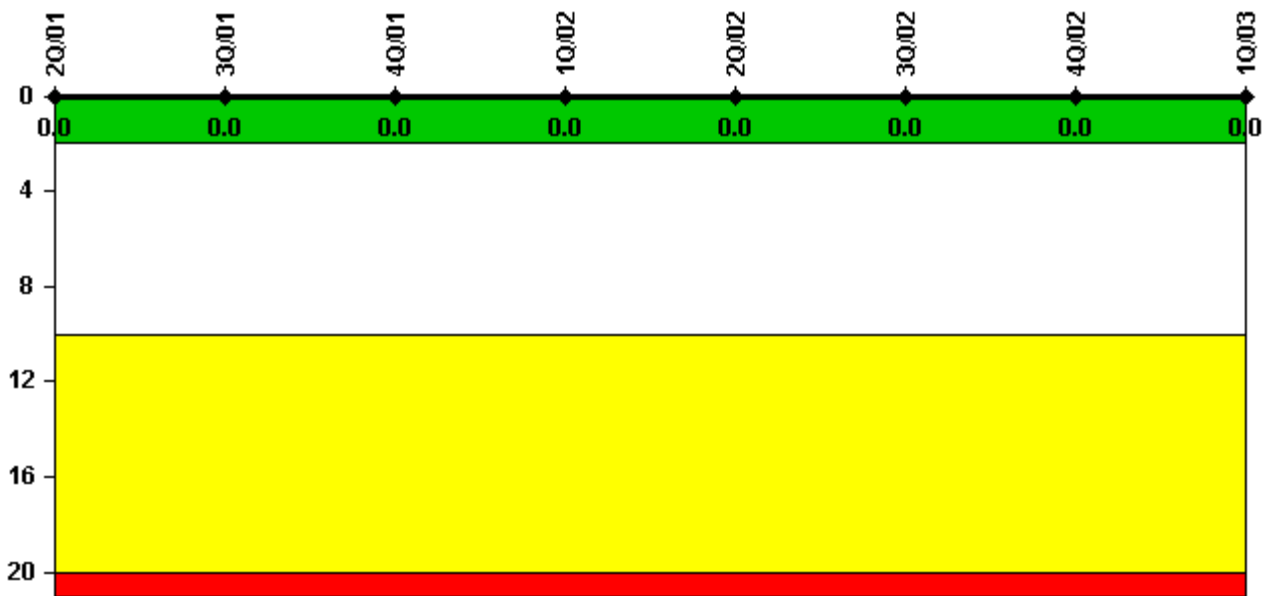
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned scrams	0	0	0	0	0	0	1.0	1.0
Critical hours	1947.6	2208.0	1950.6	1968.9	1716.0	2208.0	2172.7	2097.1
Indicator value	0	0	0	0	0	0	0.9	1.7

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



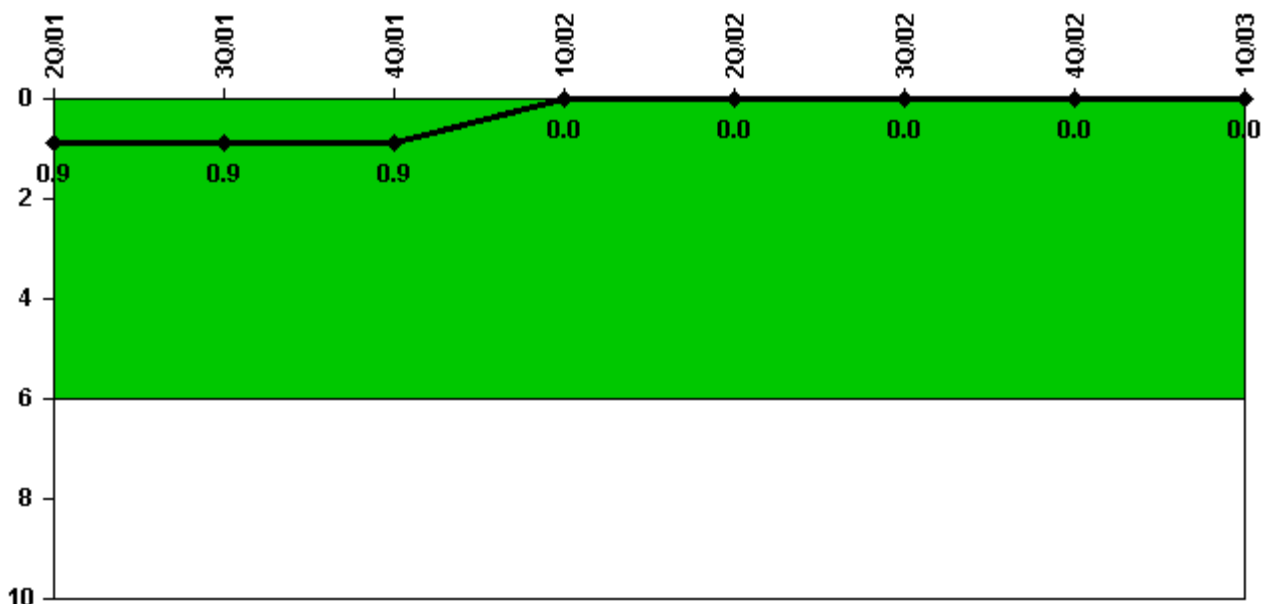
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

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



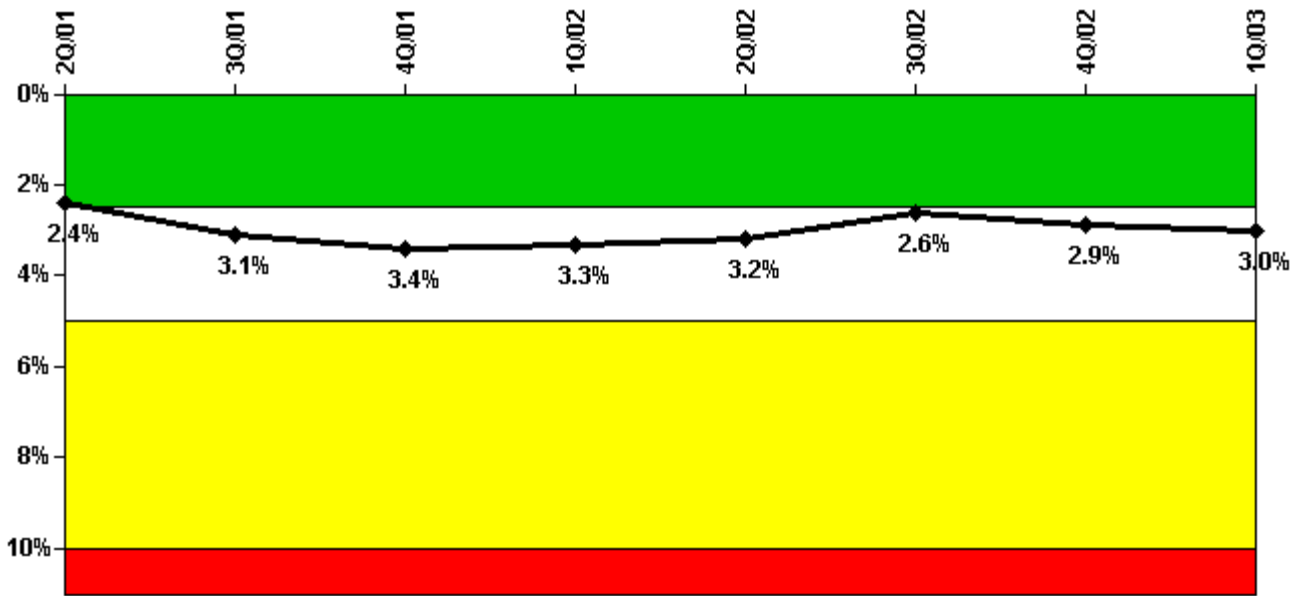
Thresholds: White > 6.0

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	0	0	0
Critical hours	1947.6	2208.0	1950.6	1968.9	1716.0	2208.0	2172.7	2097.1
Indicator value	0.9	0.9	0.9	0	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



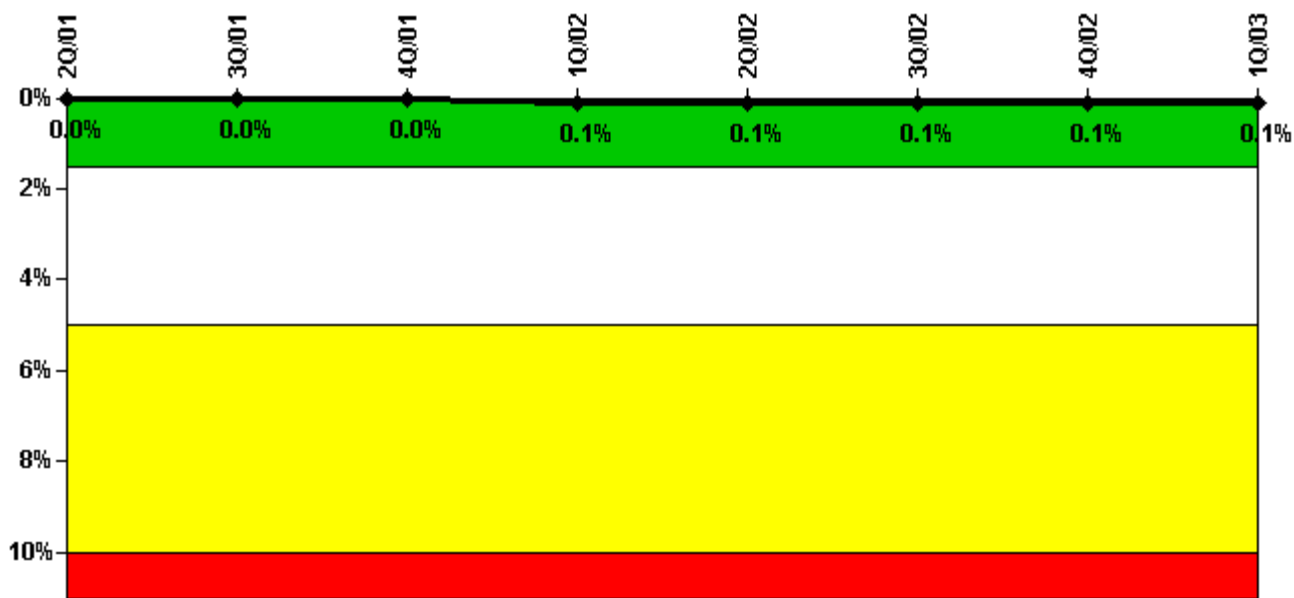
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	17.17	8.00	94.71	23.48	12.57	20.43	11.90	29.87
Unplanned unavailable hours	0	28.76	135.10	10.50	0.32	0	0	0
Fault exposure hours	0	336.03	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	336.03	0	0
Required hours	1993.43	2208.00	2005.98	1978.30	1791.42	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	10.02	30.93	44.59	15.60	25.40	22.58	138.18	14.73
Unplanned unavailable hours	131.35	3.53	12.57	7.37	0	9.50	85.35	18.17
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	1993.43	2208.00	2005.98	1978.30	1791.42	2208.00	2209.00	2160.00
Indicator value	2.4%	3.1%	3.4%	3.3%	3.2%	2.6%	2.9%	3.0%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



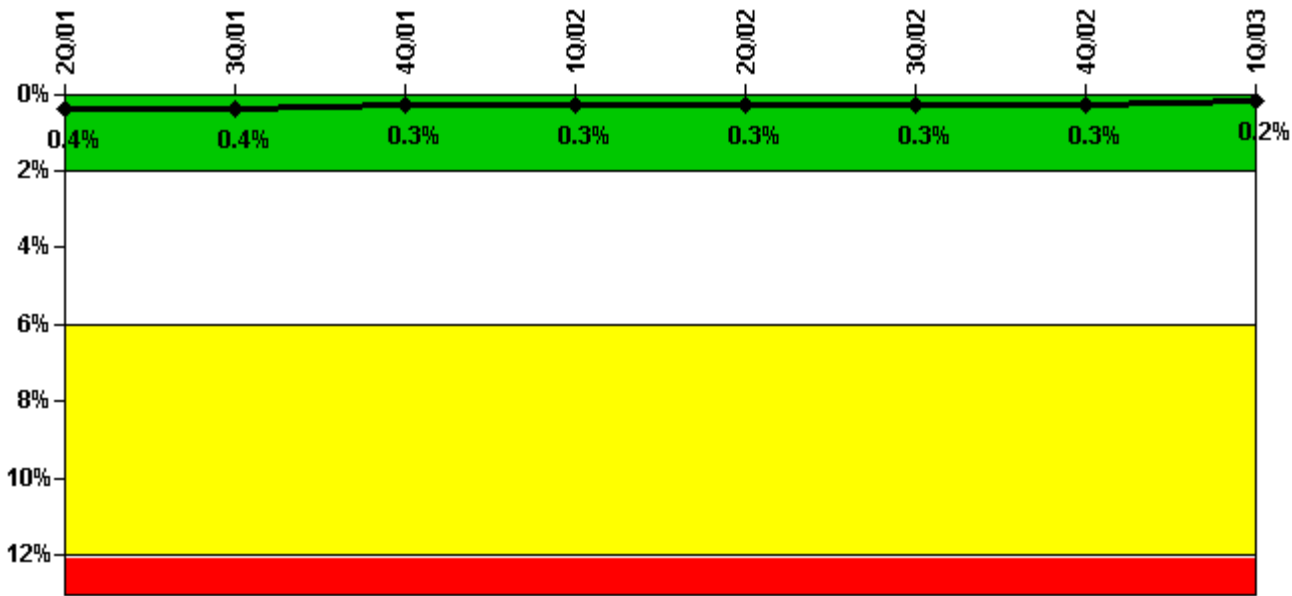
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0	0	0	0	0.80	0	1.84	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	1993.40	2208.00	2006.00	1968.90	1716.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	3.10	2.00	0.50	1.20	1.85	3.46	12.16	1.05
Unplanned unavailable hours	0	4.80	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	1993.40	2208.00	2006.00	1968.90	1716.00	2208.00	2209.00	2160.00
Indicator value	0%	0%	0%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



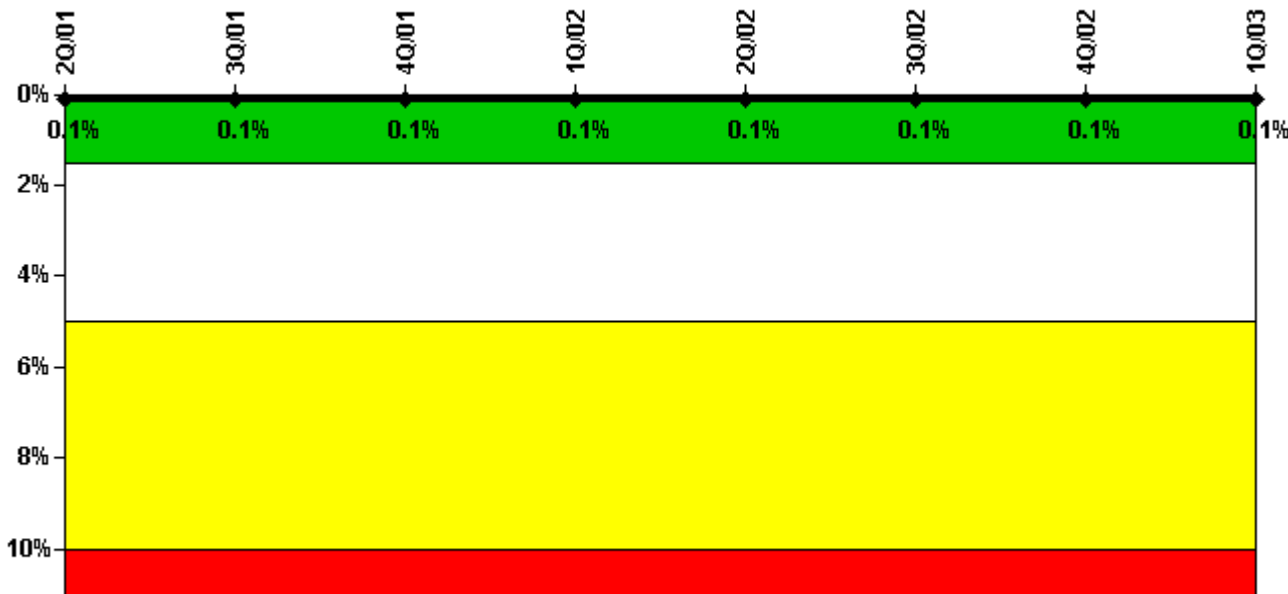
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	1.10	10.60	1.30	9.30	14.70	0.68	1.60	9.56
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1993.40	2208.00	2006.00	1968.90	1716.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	1.40	1.40	1.50	0.60	8.70	0.95	0.82	0.98
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1993.40	2208.00	2006.00	1968.90	1716.00	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	9.50	2.10	1.30	11.90	1.20	1.20	1.80	2.32
Unplanned unavailable hours	0	0	0	0	3.80	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1993.40	2208.00	2006.00	1968.90	1716.00	2208.00	2209.00	2160.00
Indicator value	0.4%	0.4%	0.3%	0.3%	0.3%	0.3%	0.3%	0.2%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

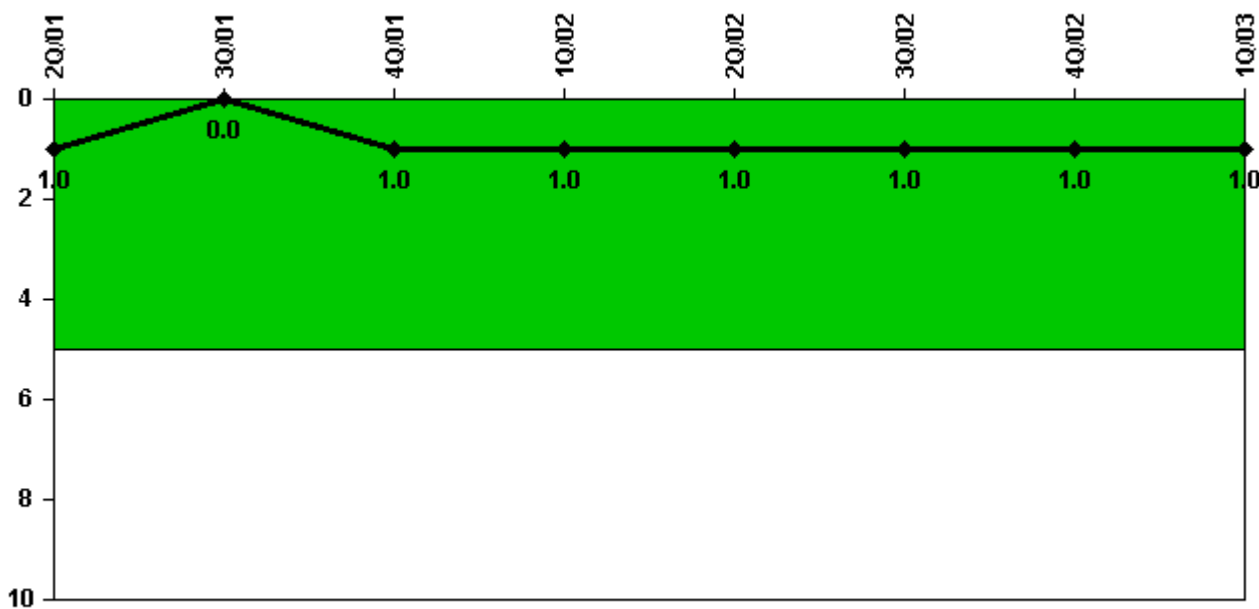
Notes

Safety System Unavailability, Residual Heat Removal System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0.10	1.10	0	10.80	0.47	0.83	5.79	0.05
Unplanned unavailable hours	0	0	0	0	0	0	0.25	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1993.40	2208.00	2209.00	1968.90	1716.00	2208.00	2209.00	2097.00
Train 2								
Planned unavailable hours	0.70	10.30	0.60	1.90	0	0.88	23.45	1.11
Unplanned unavailable hours	0	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	1993.40	2208.00	2209.00	1968.90	1716.00	2208.00	2209.00	2097.00
Train 3								
Planned unavailable hours	0.30	0	0	10.00	0	0	0	0
Unplanned unavailable hours	0	0	0	0	5.85	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1993.40	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2097.00
Train 4								
Planned unavailable hours	0.40	0	0	10.20	0	0	0	0

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1993.40	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2097.00
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)



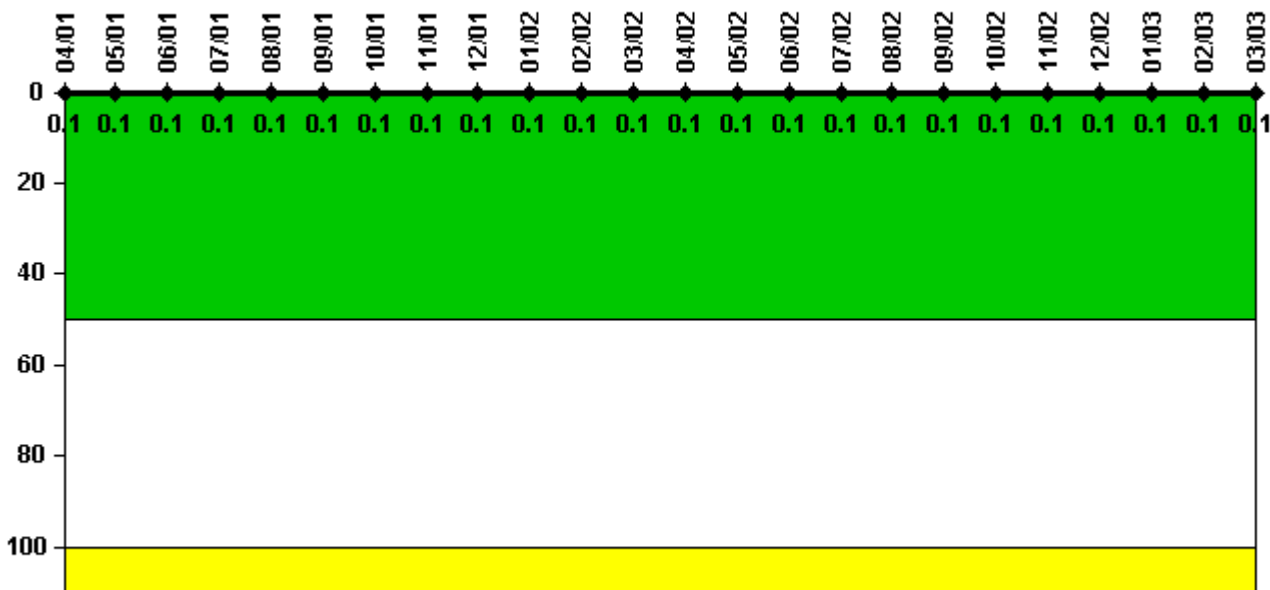
Thresholds: White > 5.0

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

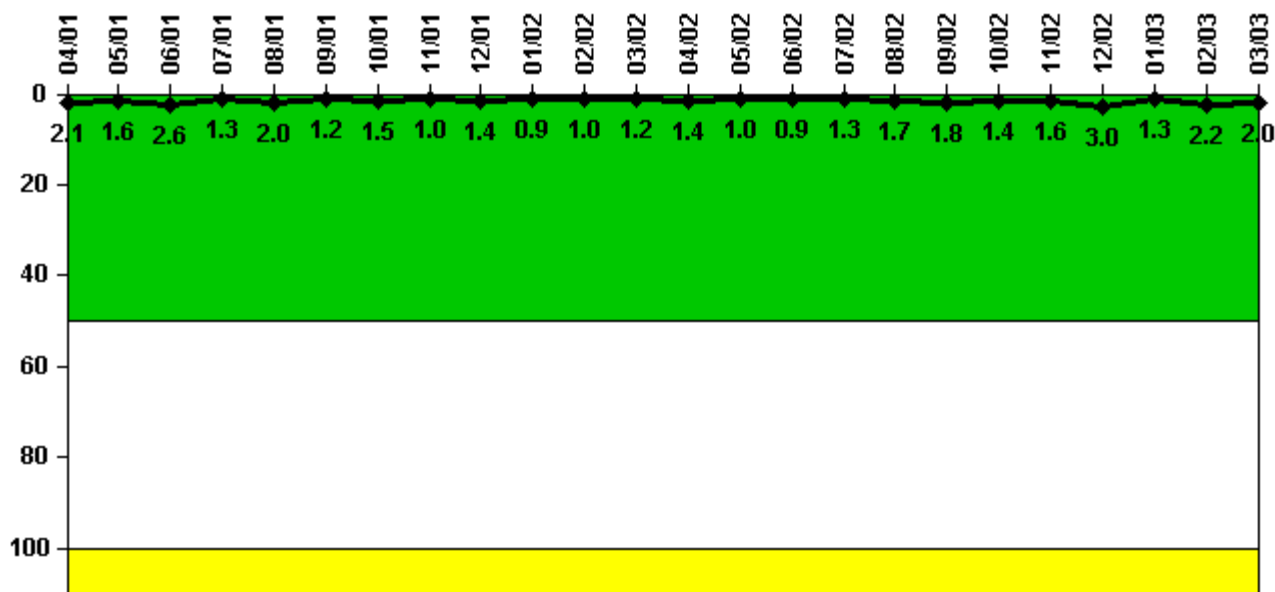
Notes

Reactor Coolant System Activity	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	0.001100	0.000977	0.001190	0.001180	0.001020	0.001060	0.001100	0.001140	0.001190	0.001140	0.001160	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	0.1	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	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum activity	0.000611	0.000791	0.000651	0.000748	0.000720	0.000722	0.000729	0.000738	0.000758	0.000768	0.000753	0.000760
Technical specification limit	1.0	1.0	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

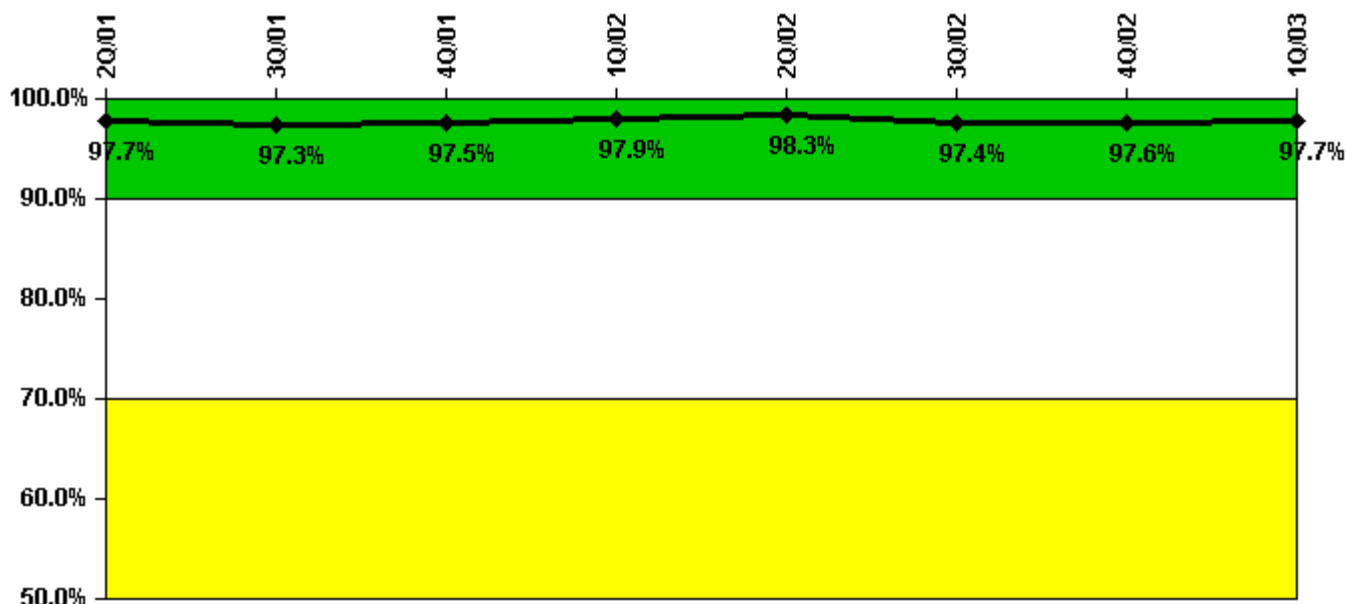
Notes

Reactor Coolant System Leakage	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum leakage	0.210	0.160	0.260	0.130	0.200	0.120	0.150	0.100	0.140	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	2.1	1.6	2.6	1.3	2.0	1.2	1.5	1.0	1.4	0.9	1.0	1.2

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	0.100	0.090	0.130	0.170	0.180	0.140	0.160	0.300	0.130	0.220	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	1.4	1.0	0.9	1.3	1.7	1.8	1.4	1.6	3.0	1.3	2.2	2.0

Licensee Comments: none

Drill/Exercise Performance



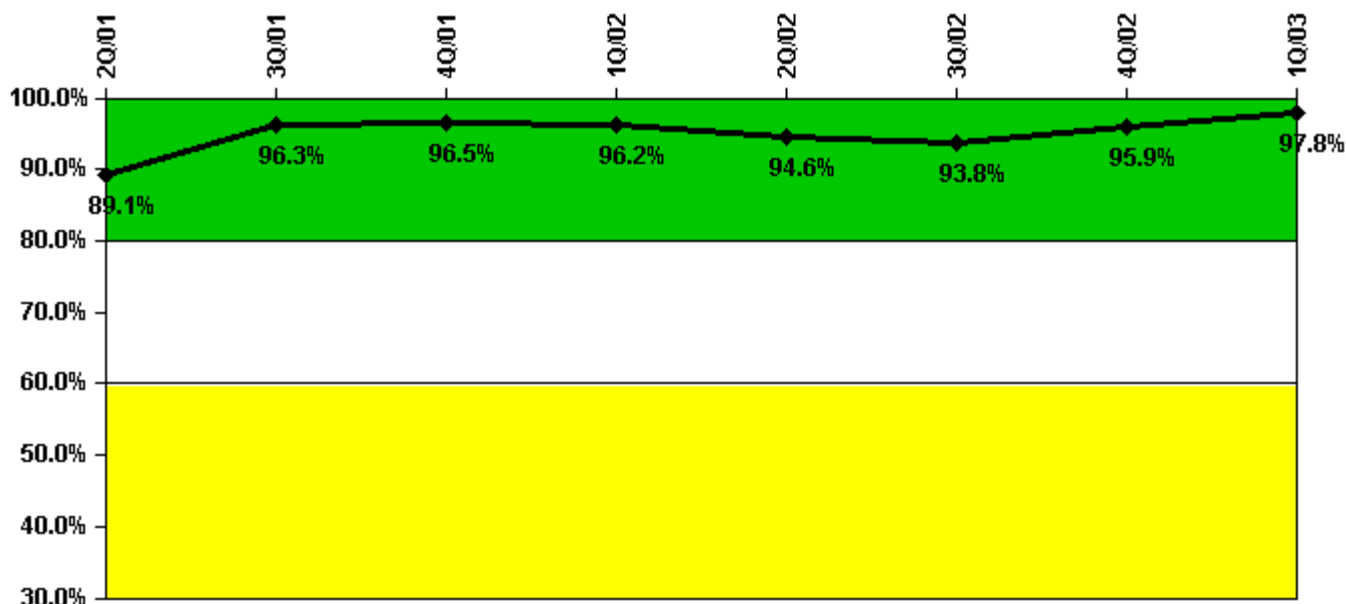
Thresholds: White < 90.0% Yellow < 70.0%

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



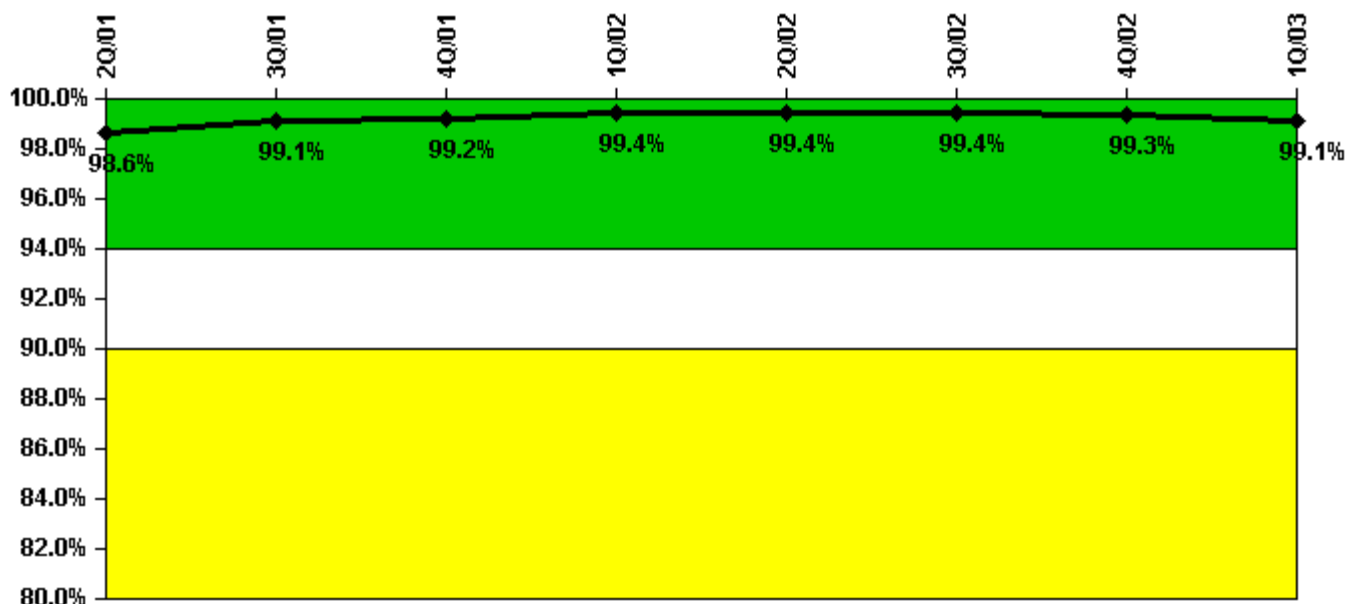
Thresholds: White < 80.0% Yellow < 60.0%

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



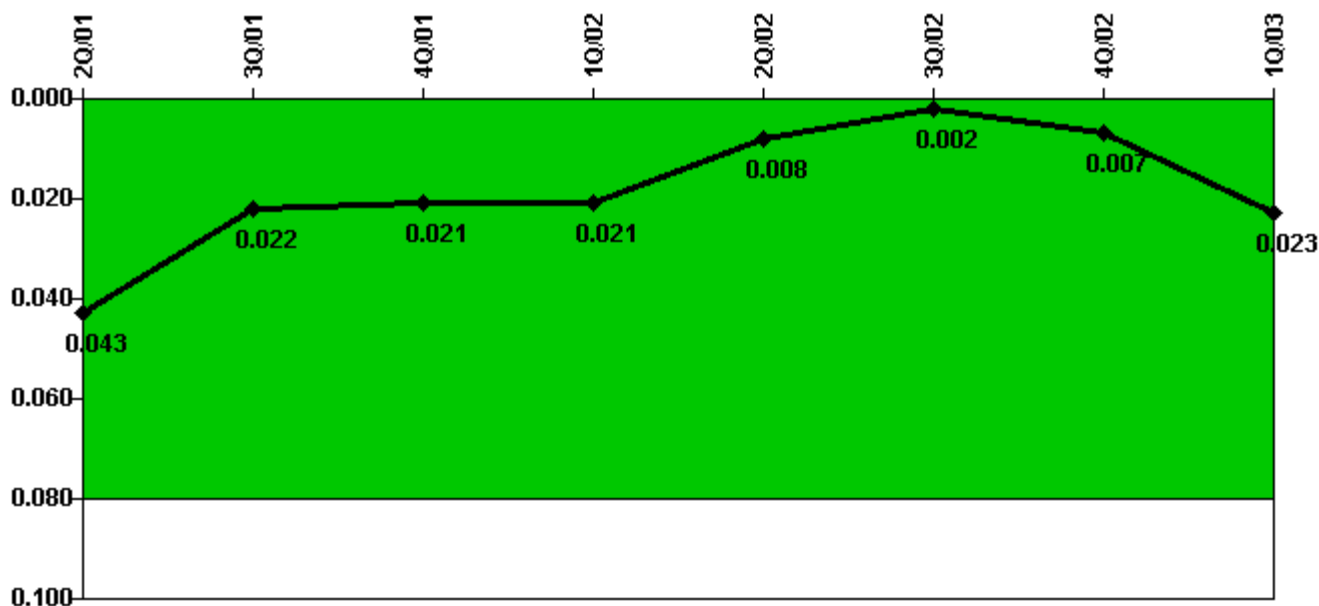
Thresholds: White > 1.0 Yellow > 3.0

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](#)

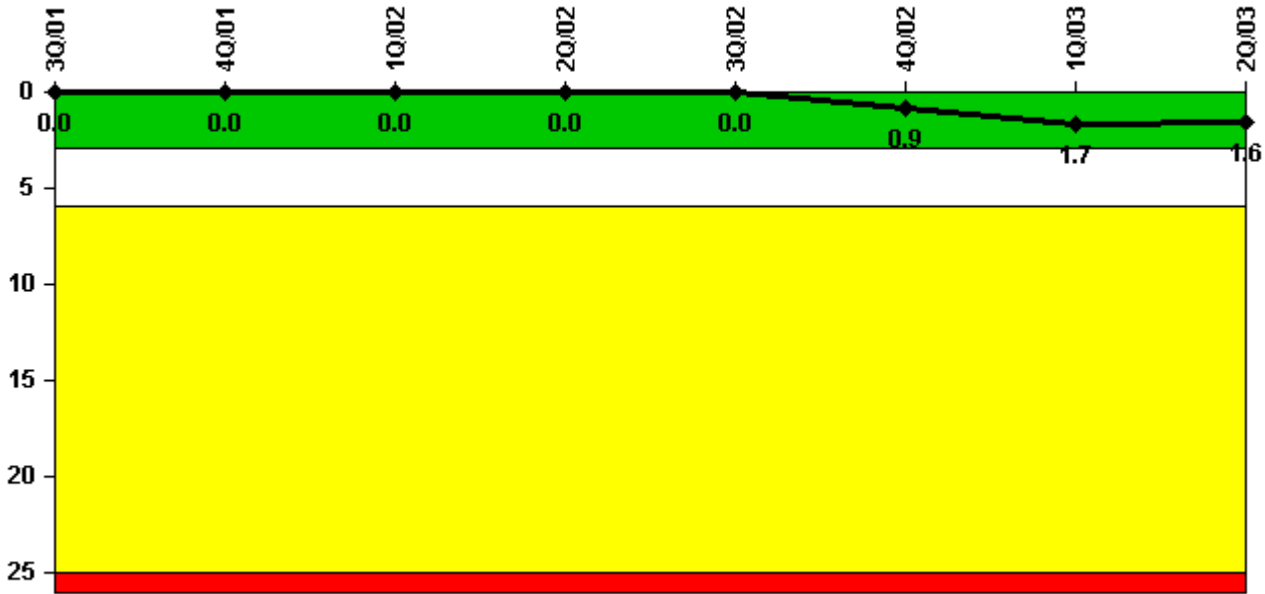
Last Modified: April 22, 2003

Surry 2

2Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



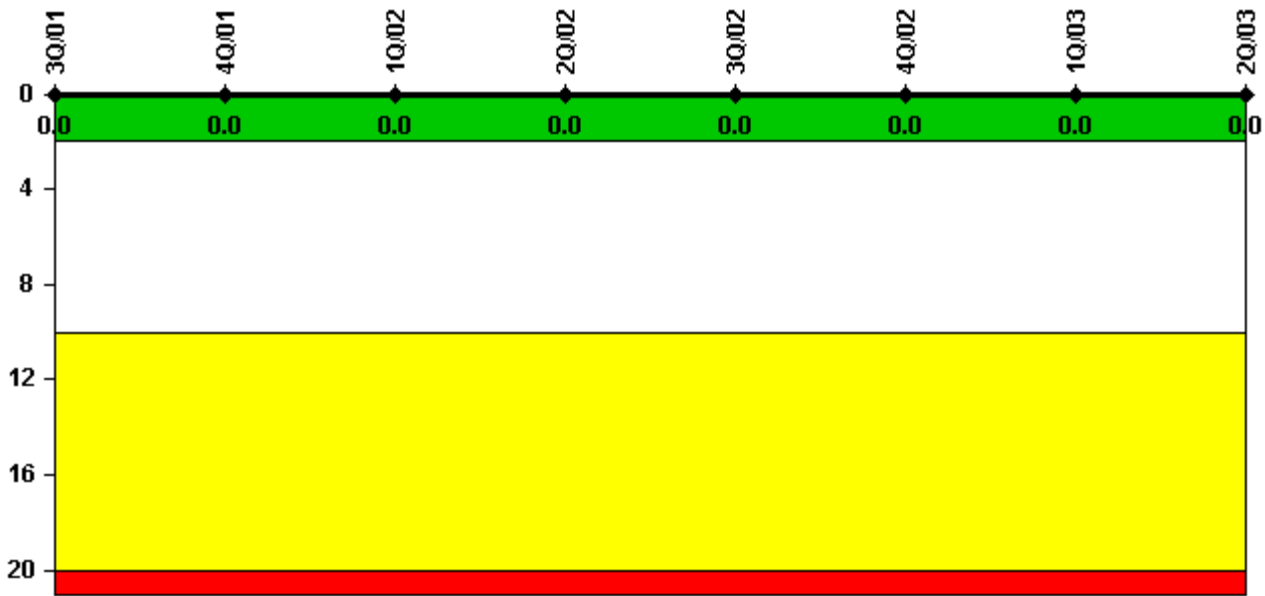
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned scrams	0	0	0	0	0	1.0	1.0	0
Critical hours	2208.0	1950.6	1968.9	1716.0	2208.0	2172.7	2097.1	2183.0
Indicator value	0	0	0	0	0	0.9	1.7	1.6

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



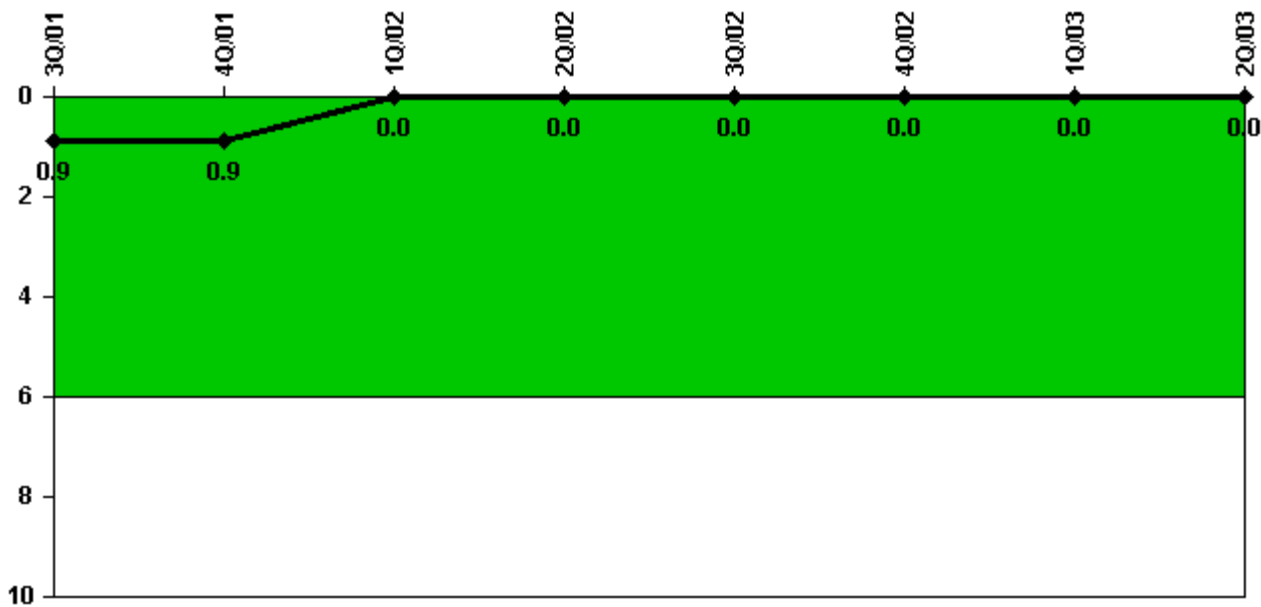
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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



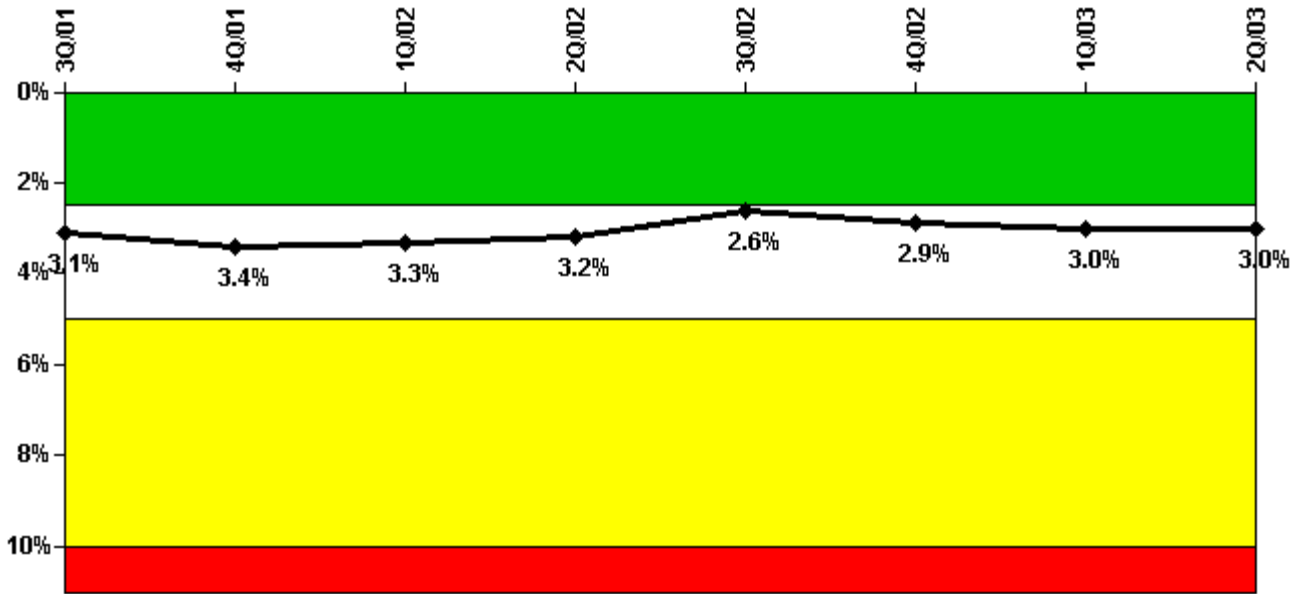
Thresholds: White > 6.0

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	0	0	0	0
Critical hours	2208.0	1950.6	1968.9	1716.0	2208.0	2172.7	2097.1	2183.0
Indicator value	0.9	0.9	0	0	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



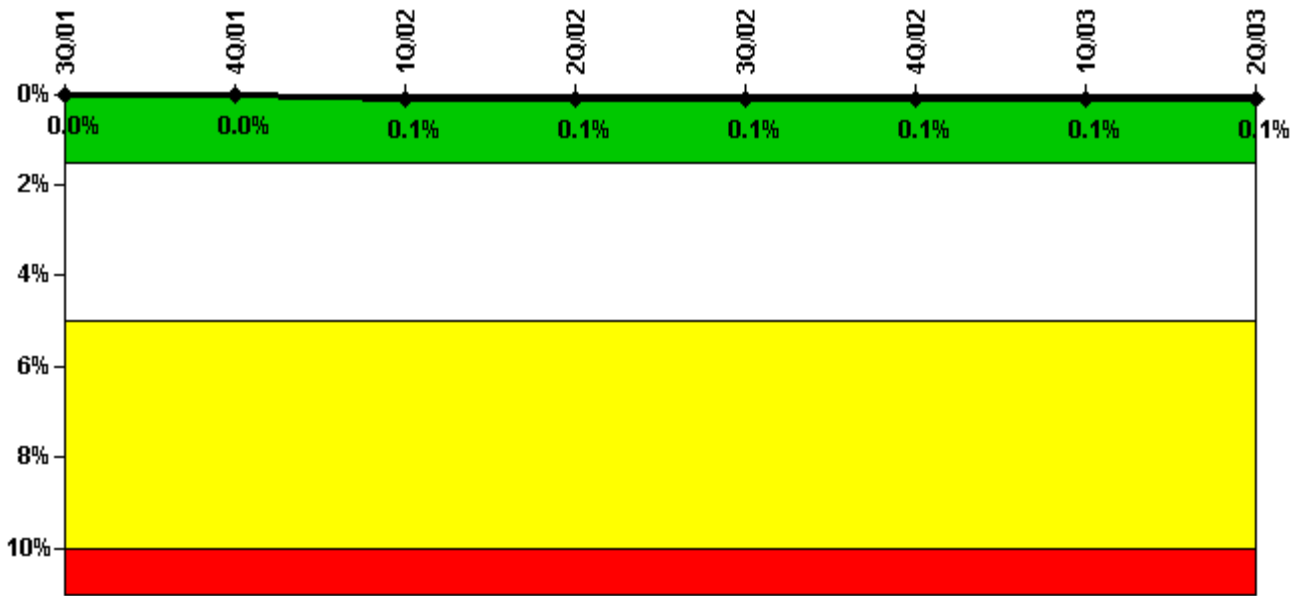
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	8.00	94.71	23.48	12.57	20.43	11.90	29.87	9.27
Unplanned unavailable hours	28.76	135.10	10.50	0.32	0	0	0	1.90
Fault exposure hours	336.03	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	336.03	0	0	0
Required hours	2208.00	2005.98	1978.30	1791.42	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	30.93	44.59	15.60	25.40	22.58	138.18	14.73	62.79
Unplanned unavailable hours	3.53	12.57	7.37	0	9.50	85.35	18.17	38.62
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	2005.98	1978.30	1791.42	2208.00	2209.00	2160.00	2183.00
Indicator value	3.1%	3.4%	3.3%	3.2%	2.6%	2.9%	3.0%	3.0%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



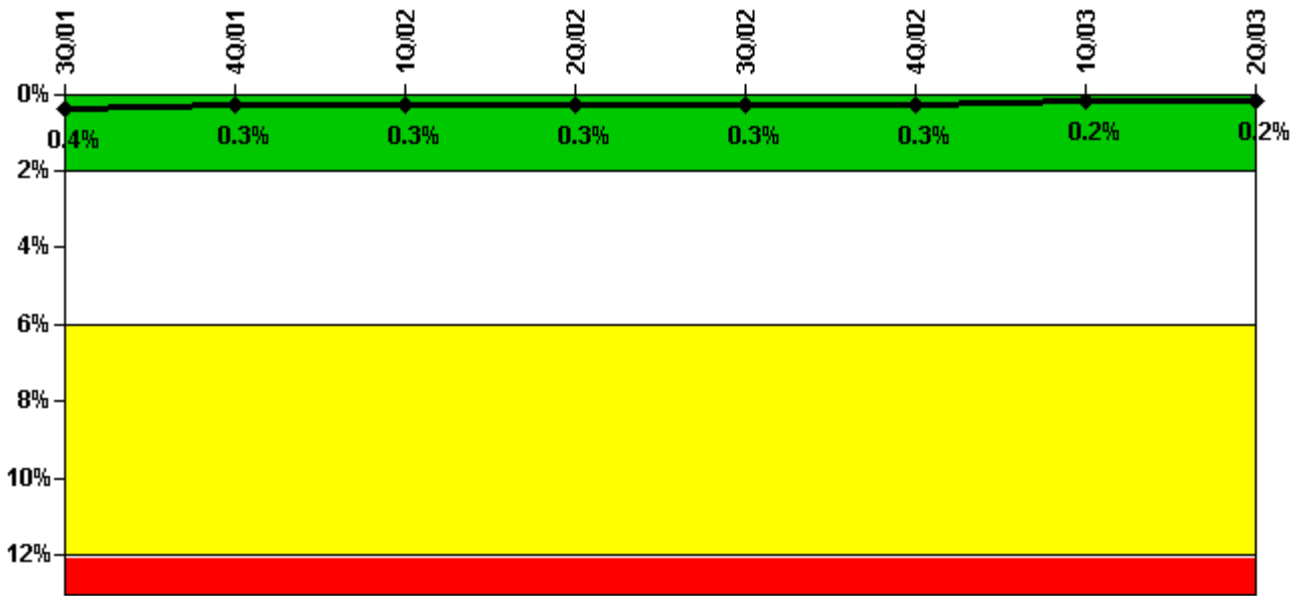
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	0	0	0	0.80	0	1.84	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	2006.00	1968.90	1716.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	2.00	0.50	1.20	1.85	3.46	12.16	1.05	1.30
Unplanned unavailable hours	4.80	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	2208.00	2006.00	1968.90	1716.00	2208.00	2209.00	2160.00	2183.00
Indicator value	0%	0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



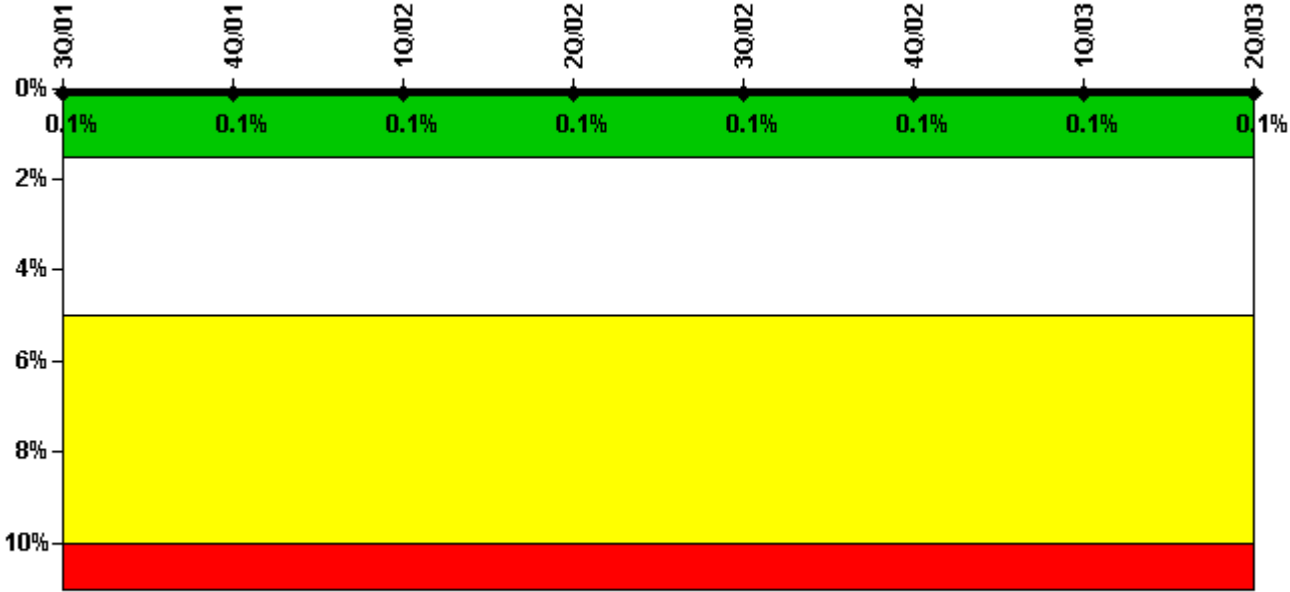
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	10.60	1.30	9.30	14.70	0.68	1.60	9.56	0.77
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2006.00	1968.90	1716.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	1.40	1.50	0.60	8.70	0.95	0.82	0.98	5.58
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2006.00	1968.90	1716.00	2208.00	2209.00	2160.00	2183.00
Train 3								
Planned unavailable hours	2.10	1.30	11.90	1.20	1.20	1.80	2.32	16.93
Unplanned unavailable hours	0	0	0	3.80	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2006.00	1968.90	1716.00	2208.00	2209.00	2160.00	2183.00
Indicator value	0.4%	0.3%	0.3%	0.3%	0.3%	0.3%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

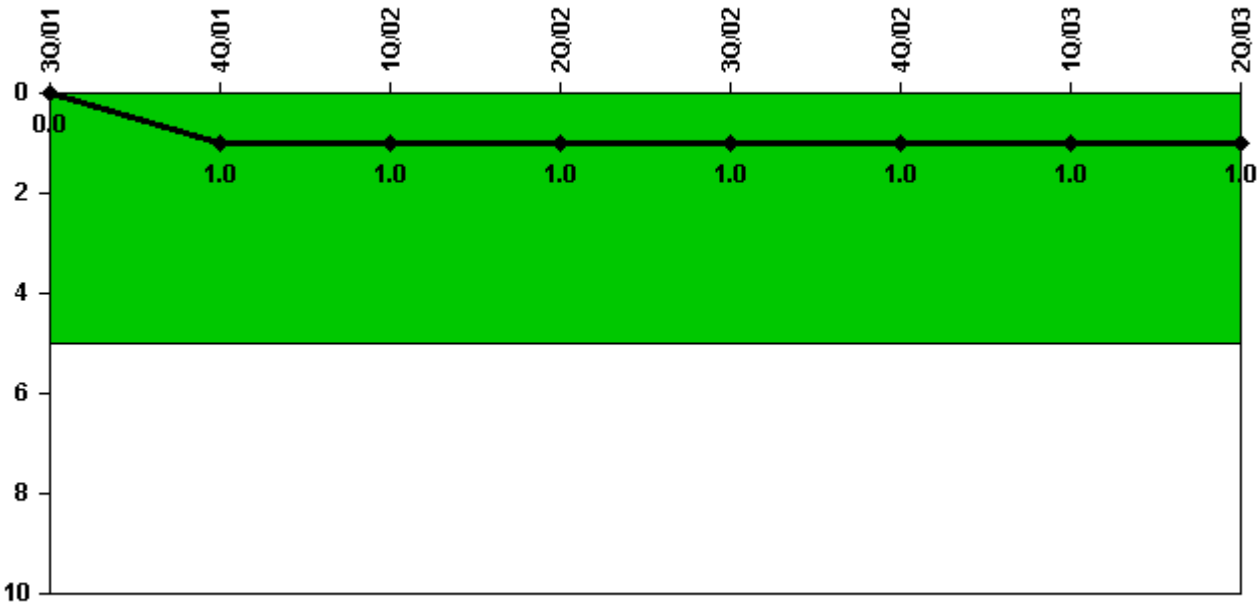
Notes

Safety System Unavailability, Residual Heat Removal System	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	1.10	0	10.80	0.47	0.83	5.79	0.05	0.70
Unplanned unavailable hours	0	0	0	0	0	0.25	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1968.90	1716.00	2208.00	2209.00	2097.00	2183.00
Train 2								
Planned unavailable hours	10.30	0.60	1.90	0	0.88	23.45	1.11	1.20
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	2208.00	2209.00	1968.90	1716.00	2208.00	2209.00	2097.00	2183.00
Train 3								
Planned unavailable hours	0	0	10.00	0	0	0	0	0
Unplanned unavailable hours	0	0	0	5.85	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2097.00	2183.00
Train 4								
Planned unavailable hours	0	0	10.20	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	2209.00	2097.00	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 Functional Failures (PWR)



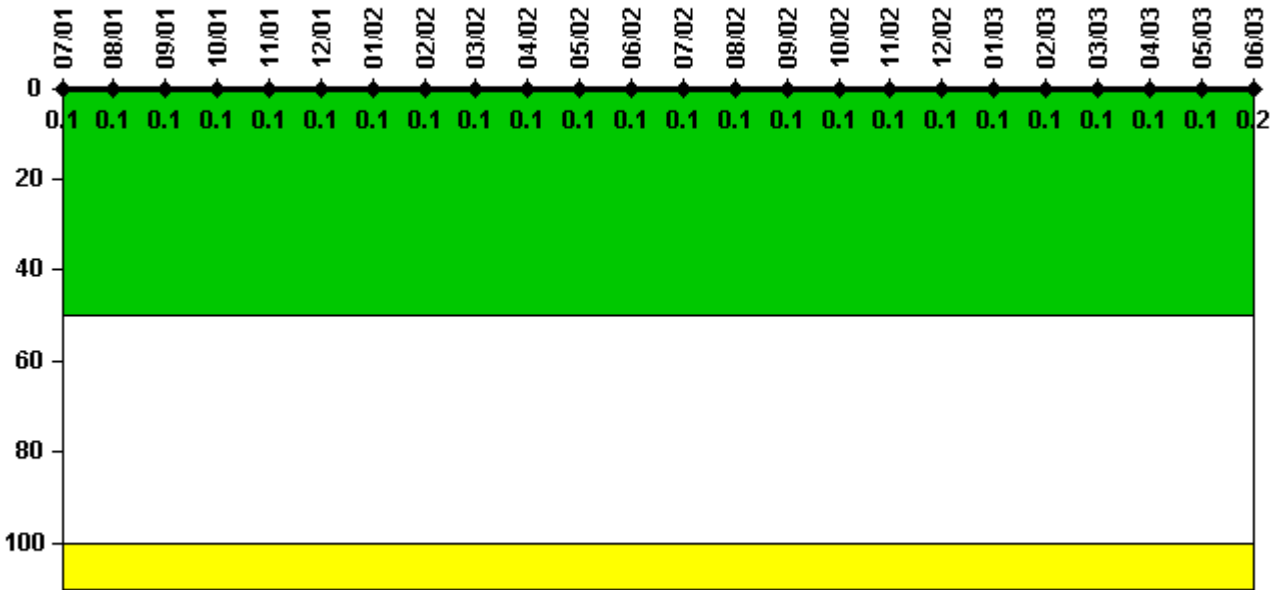
Thresholds: White > 5.0

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

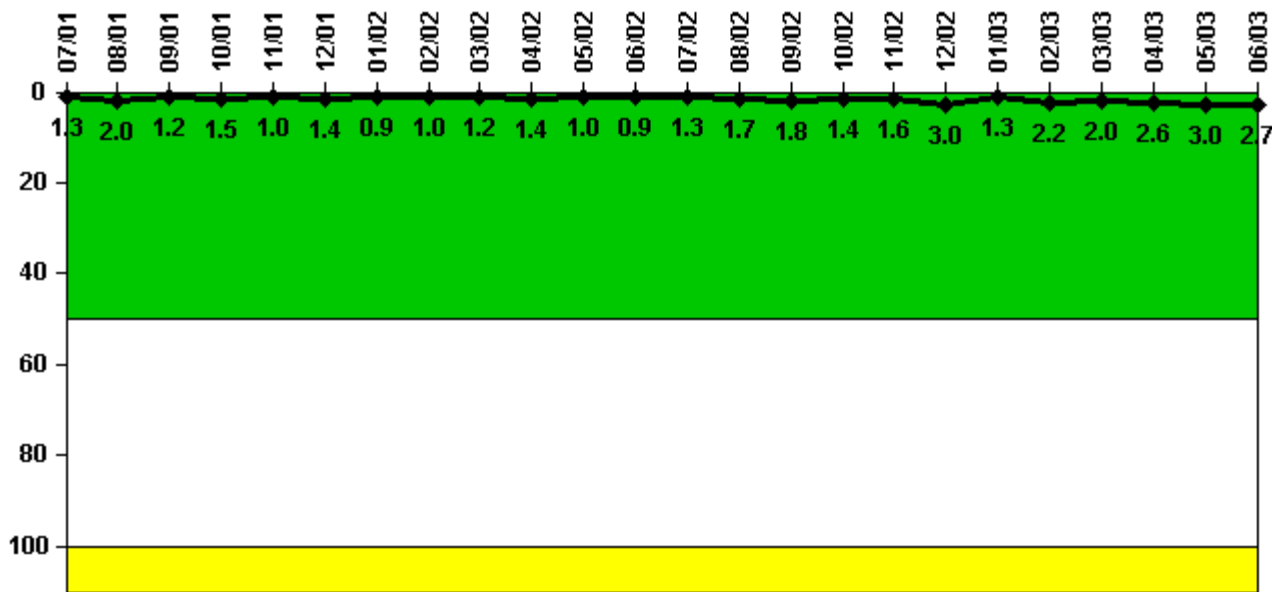
Notes

Reactor Coolant System Activity	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	0.001180	0.001020	0.001060	0.001100	0.001140	0.001190	0.001140	0.001160	0.001350	0.000611	0.000791	0.000651
Technical specification limit	1.0	1.0	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	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum activity	0.000748	0.000720	0.000722	0.000729	0.000738	0.000758	0.000768	0.000753	0.000760	0.000903	0.001010	0.001870
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

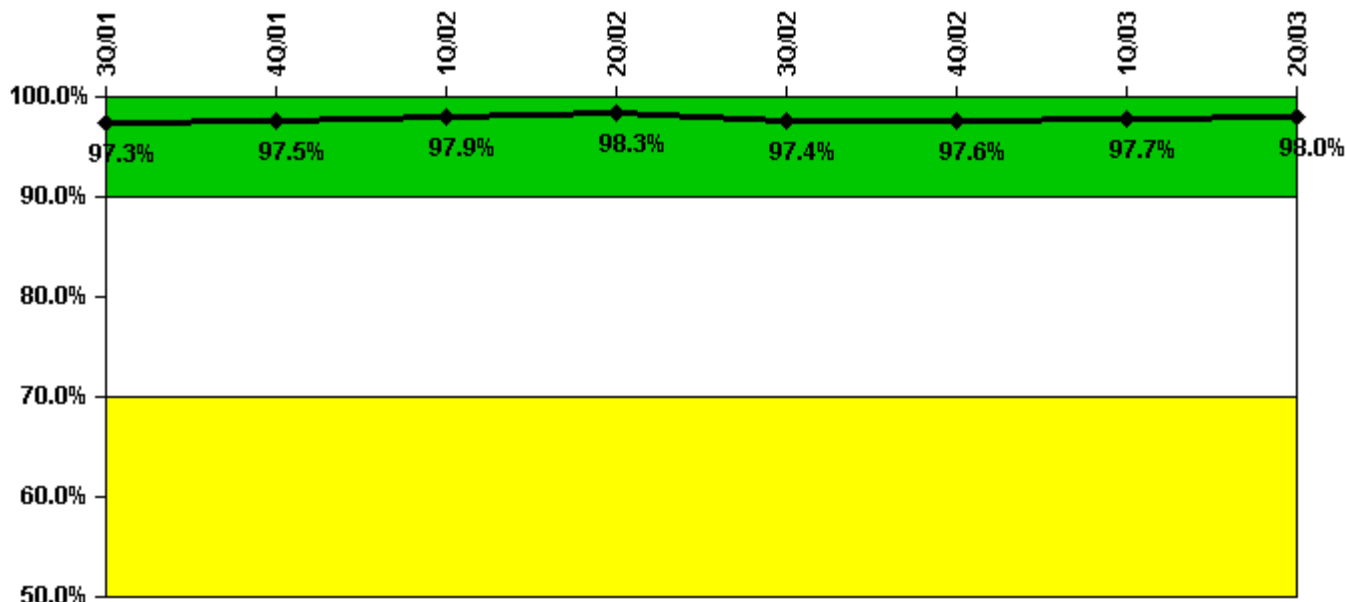
Notes

Reactor Coolant System Leakage	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum leakage	0.130	0.200	0.120	0.150	0.100	0.140	0.090	0.100	0.120	0.140	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	1.3	2.0	1.2	1.5	1.0	1.4	0.9	1.0	1.2	1.4	1.0	0.9

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	0.130	0.170	0.180	0.140	0.160	0.300	0.130	0.220	0.200	0.260	0.300	0.270
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.7	1.8	1.4	1.6	3.0	1.3	2.2	2.0	2.6	3.0	2.7

Licensee Comments: none

Drill/Exercise Performance



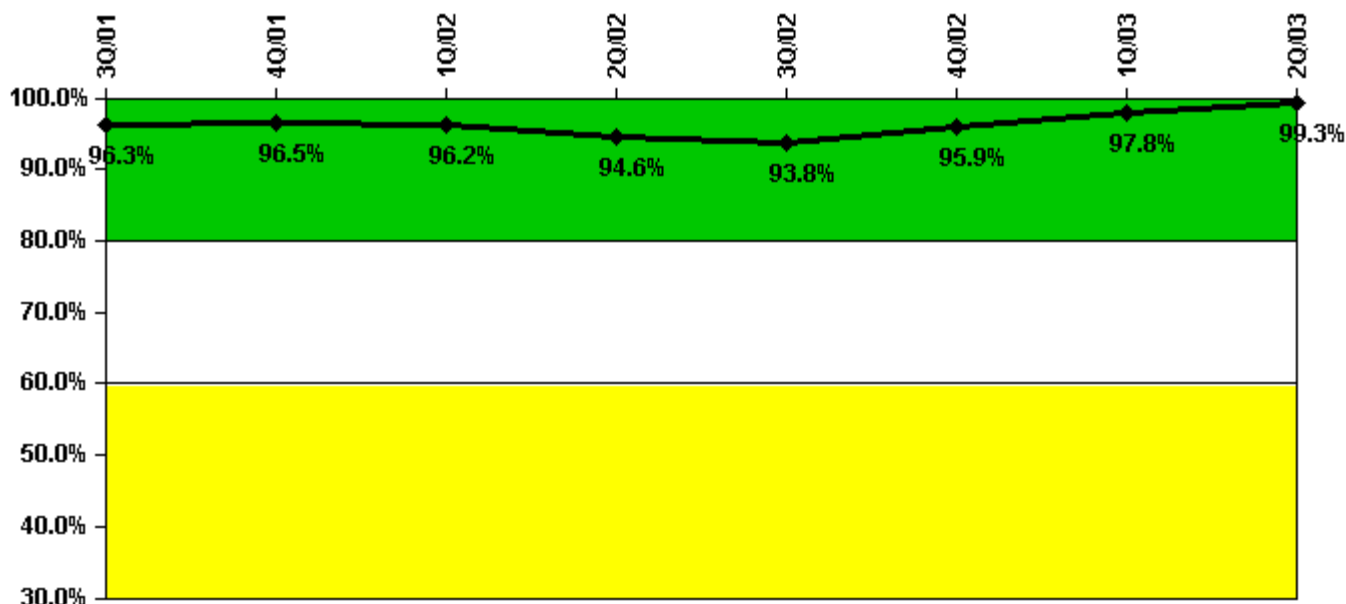
Thresholds: White < 90.0% Yellow < 70.0%

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



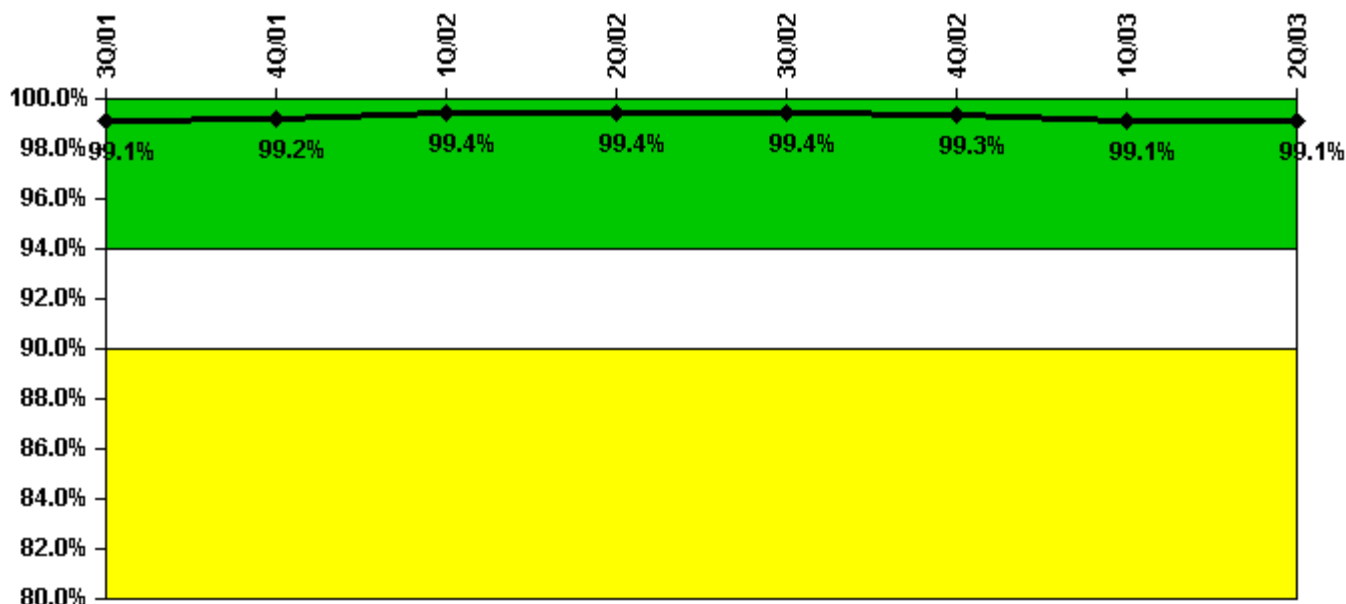
Thresholds: White < 80.0% Yellow < 60.0%

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



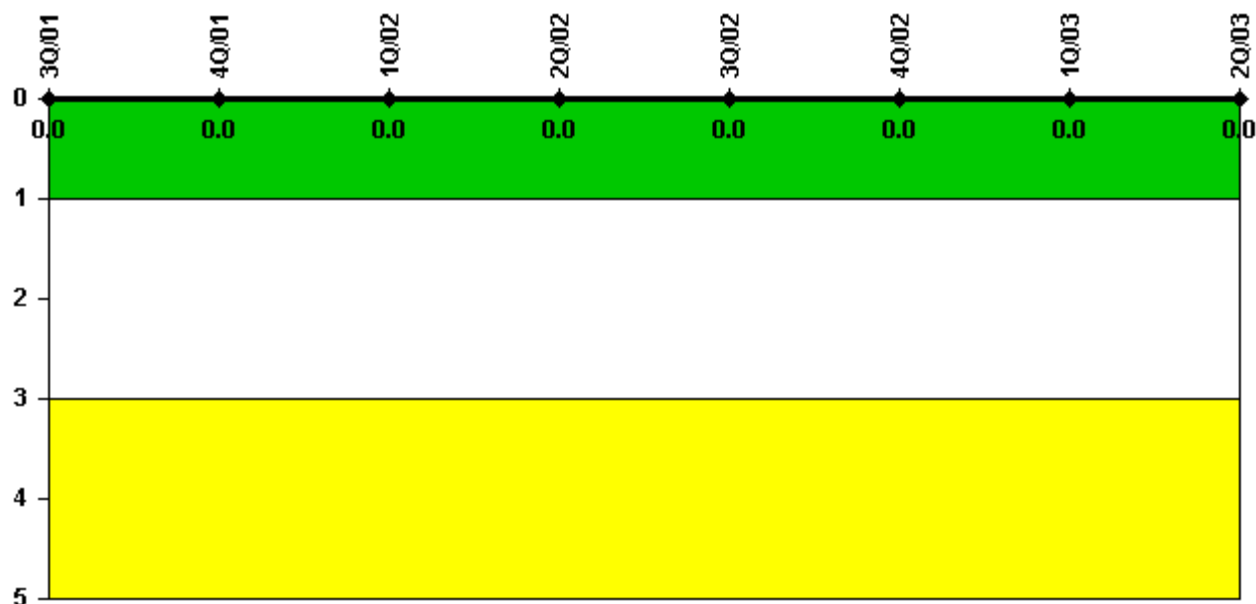
Thresholds: White > 2.0 Yellow > 5.0

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



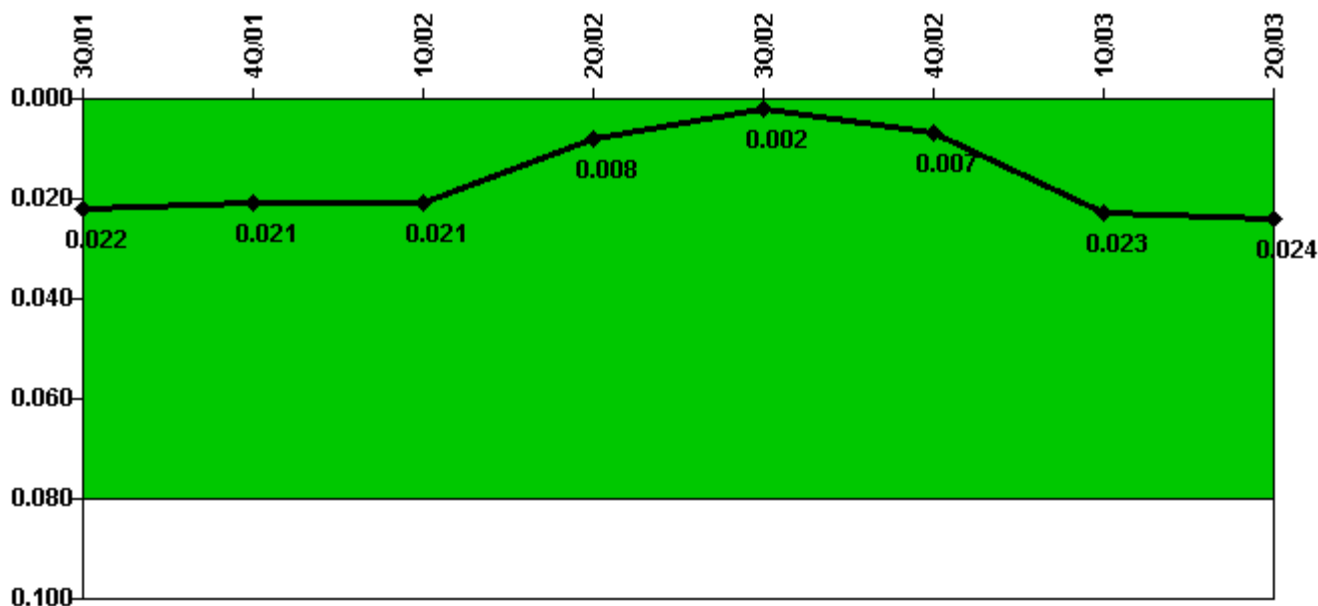
Thresholds: White > 1.0 Yellow > 3.0

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



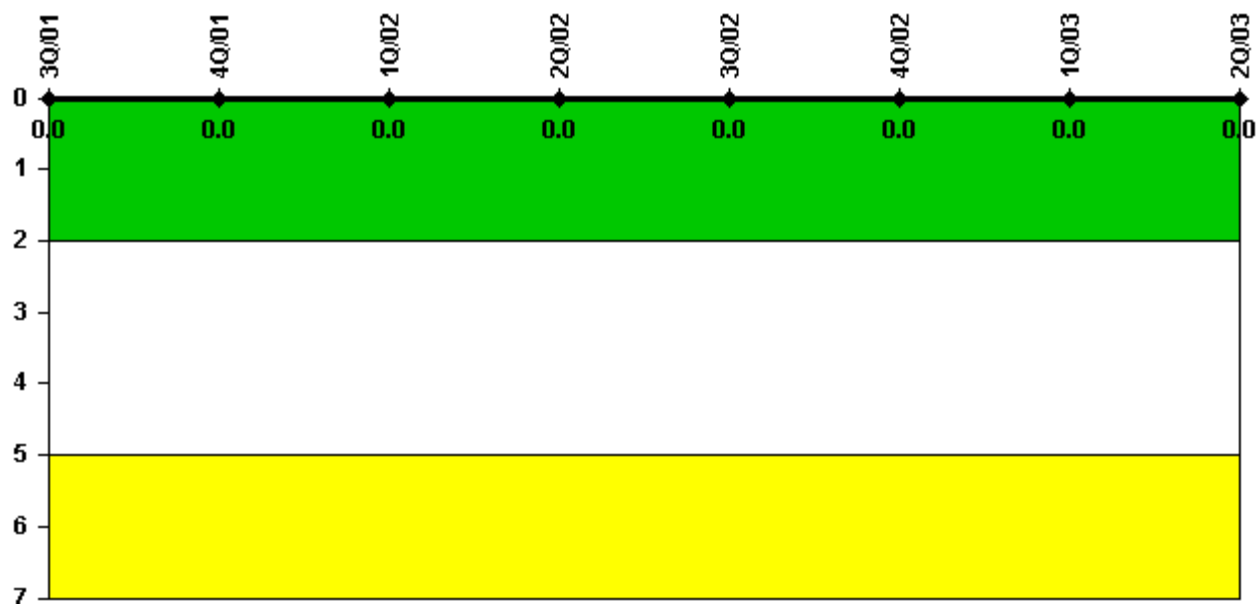
Thresholds: White > 0.080

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



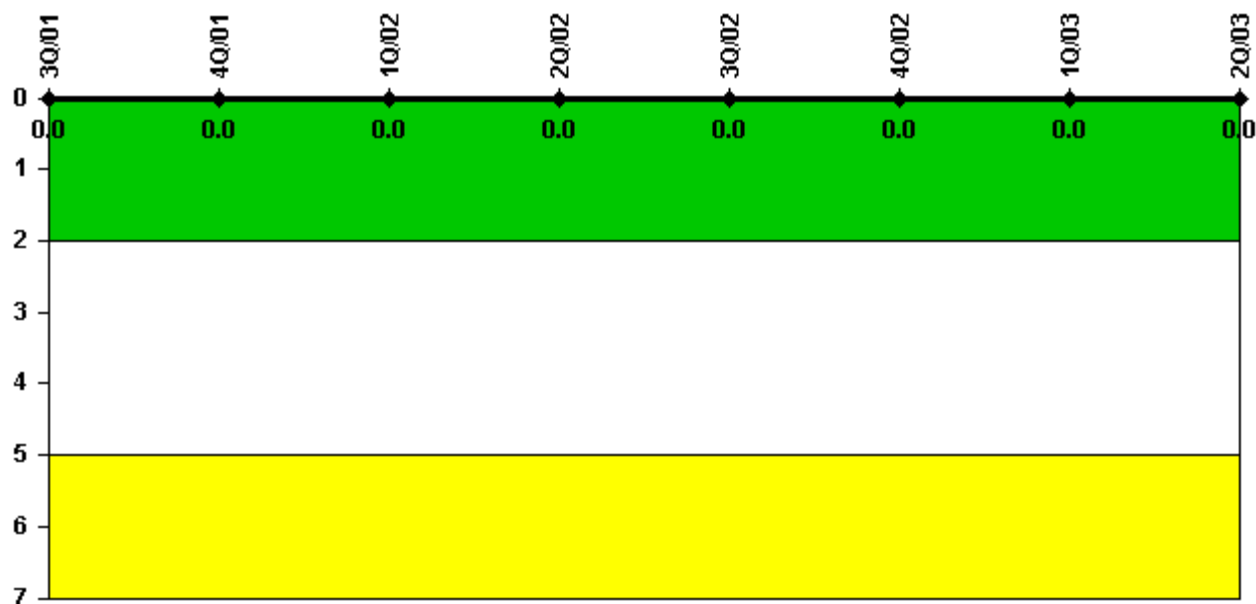
Thresholds: White > 2.0 Yellow > 5.0

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](#)

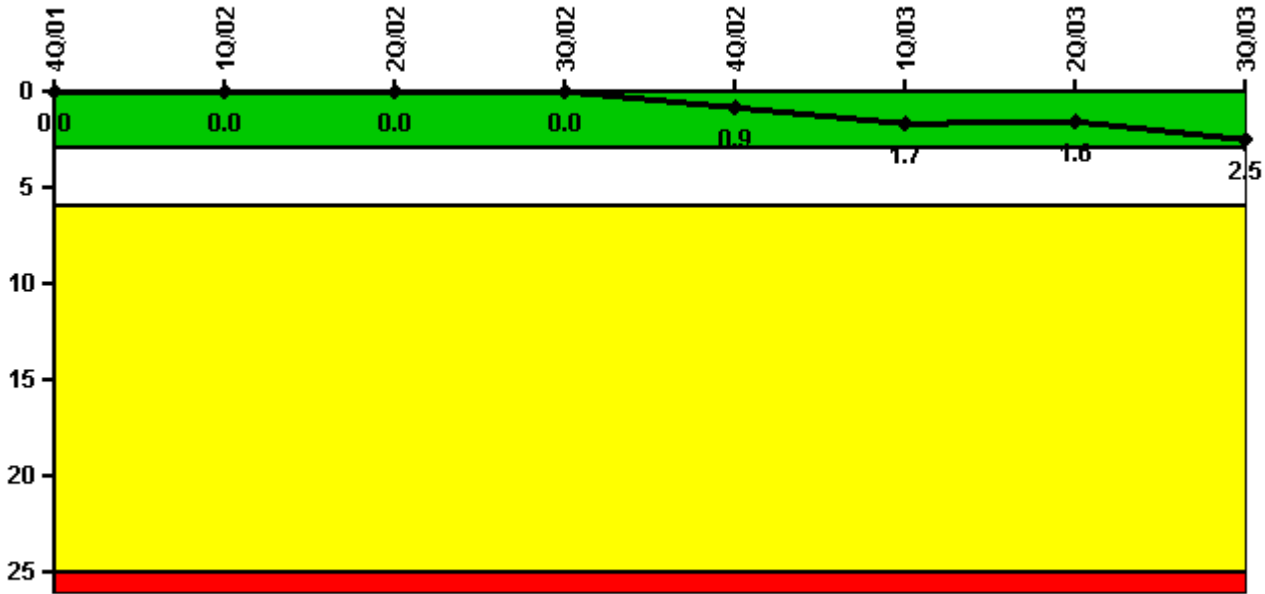
Last Modified: July 22, 2003

Surry 2

3Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



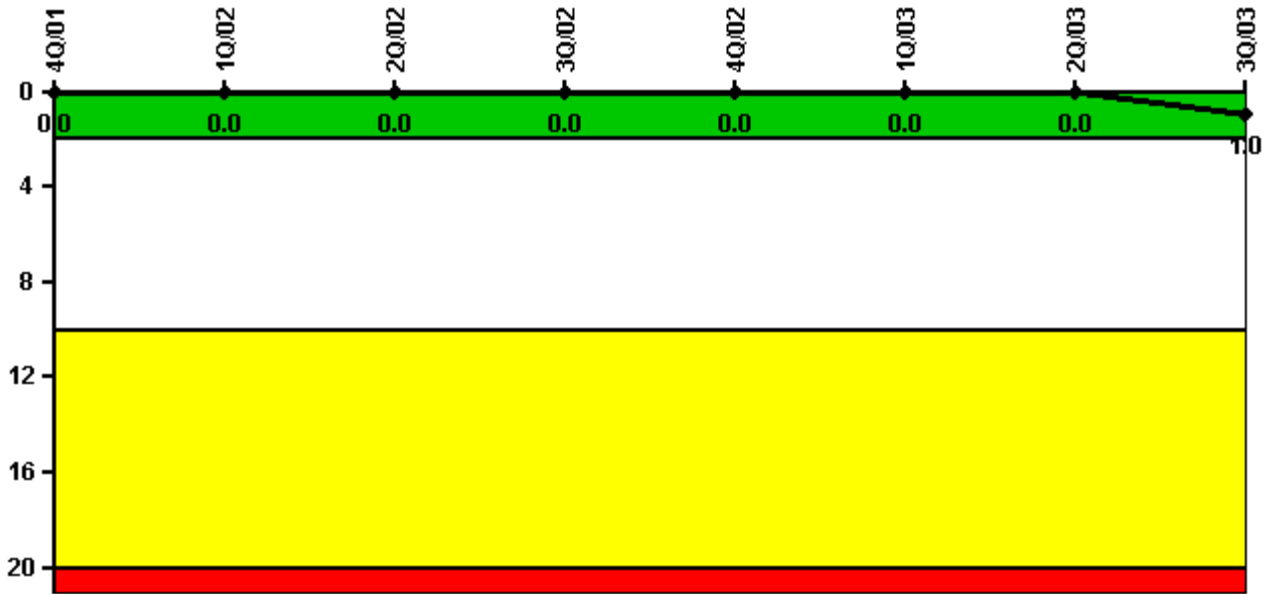
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned scrams	0	0	0	0	1.0	1.0	0	1.0
Critical hours	1950.6	1968.9	1716.0	2208.0	2172.7	2097.1	2183.0	1913.5
Indicator value	0	0	0	0	0.9	1.7	1.6	2.5

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



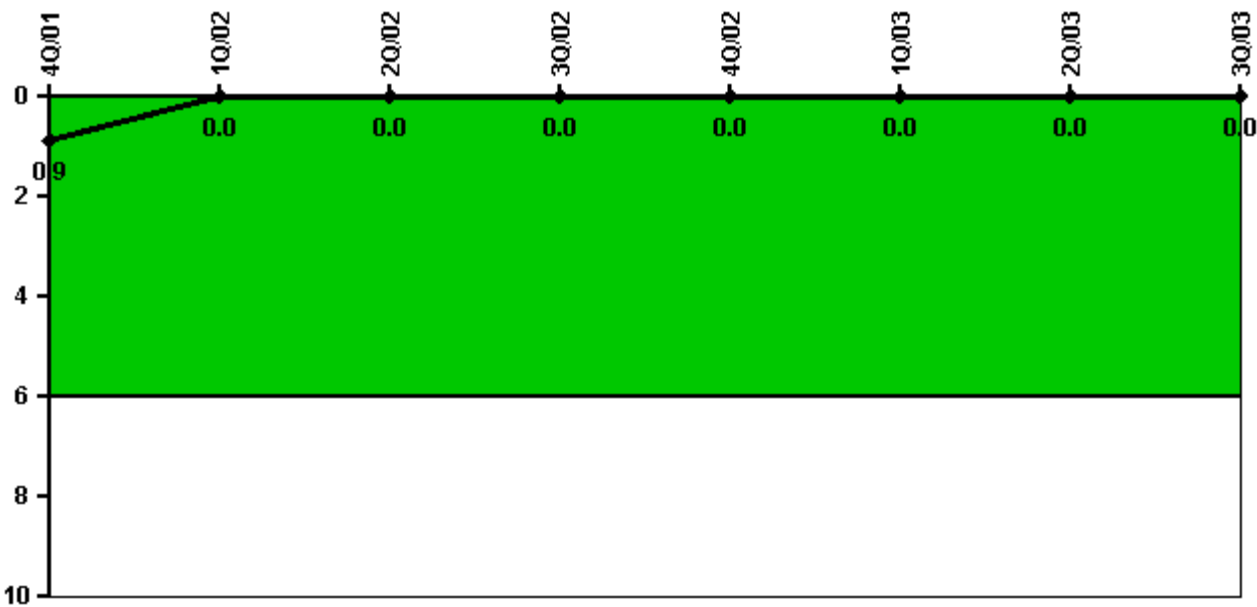
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/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



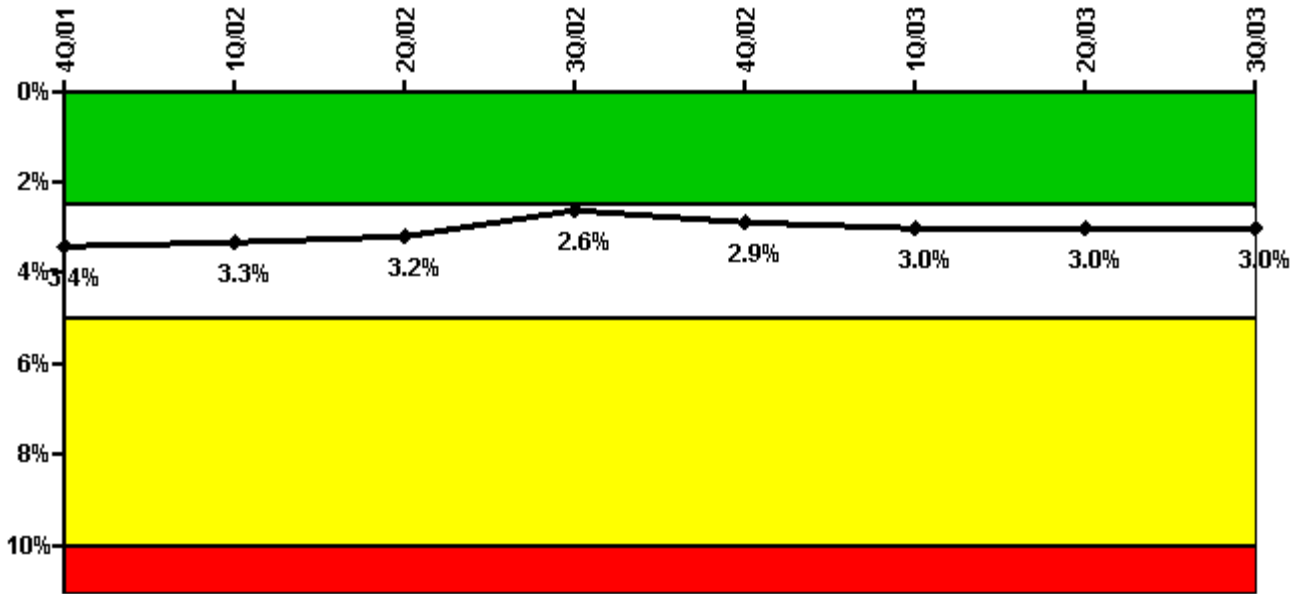
Thresholds: White > 6.0

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	0	0	0	0	0
Critical hours	1950.6	1968.9	1716.0	2208.0	2172.7	2097.1	2183.0	1913.5
Indicator value	0.9	0	0	0	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



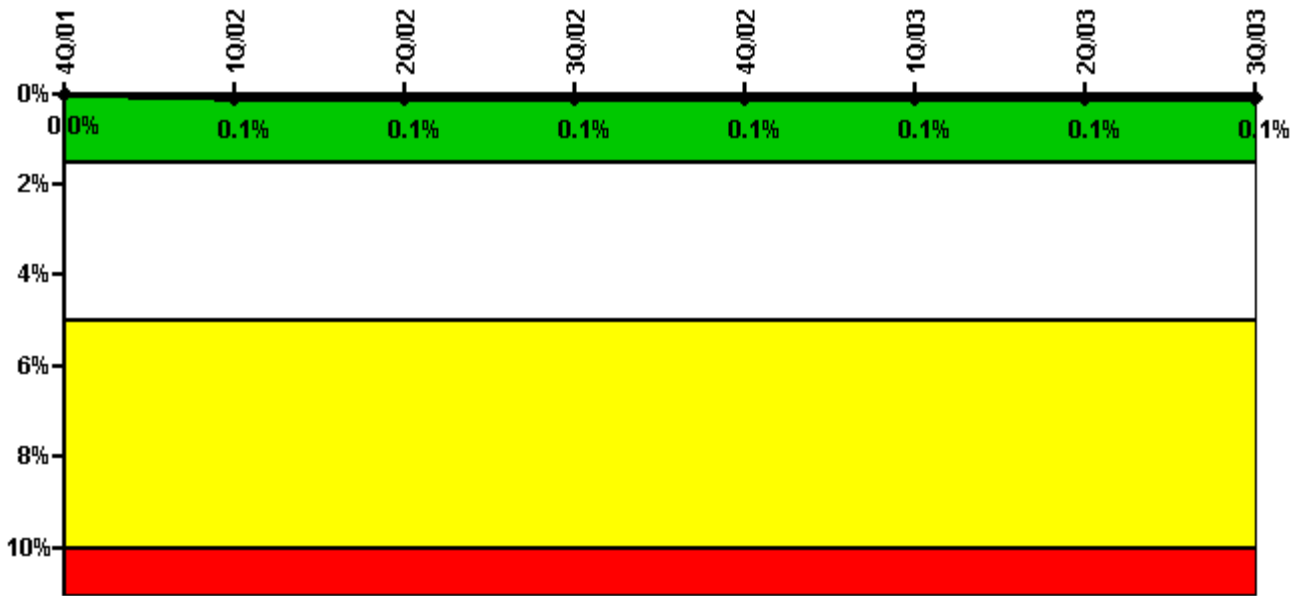
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	94.71	23.48	12.57	20.43	11.90	29.87	9.27	90.55
Unplanned unavailable hours	135.10	10.50	0.32	0	0	0	1.90	16.23
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	336.03	0	0	0	0
Required hours	2005.98	1978.30	1791.42	2208.00	2209.00	2160.00	2183.00	1952.88
Train 2								
Planned unavailable hours	44.59	15.60	25.40	22.58	138.18	14.73	62.79	13.16
Unplanned unavailable hours	12.57	7.37	0	9.50	85.35	18.17	38.62	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2005.98	1978.30	1791.42	2208.00	2209.00	2160.00	2183.00	1952.88
Indicator value	3.4%	3.3%	3.2%	2.6%	2.9%	3.0%	3.0%	3.0%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



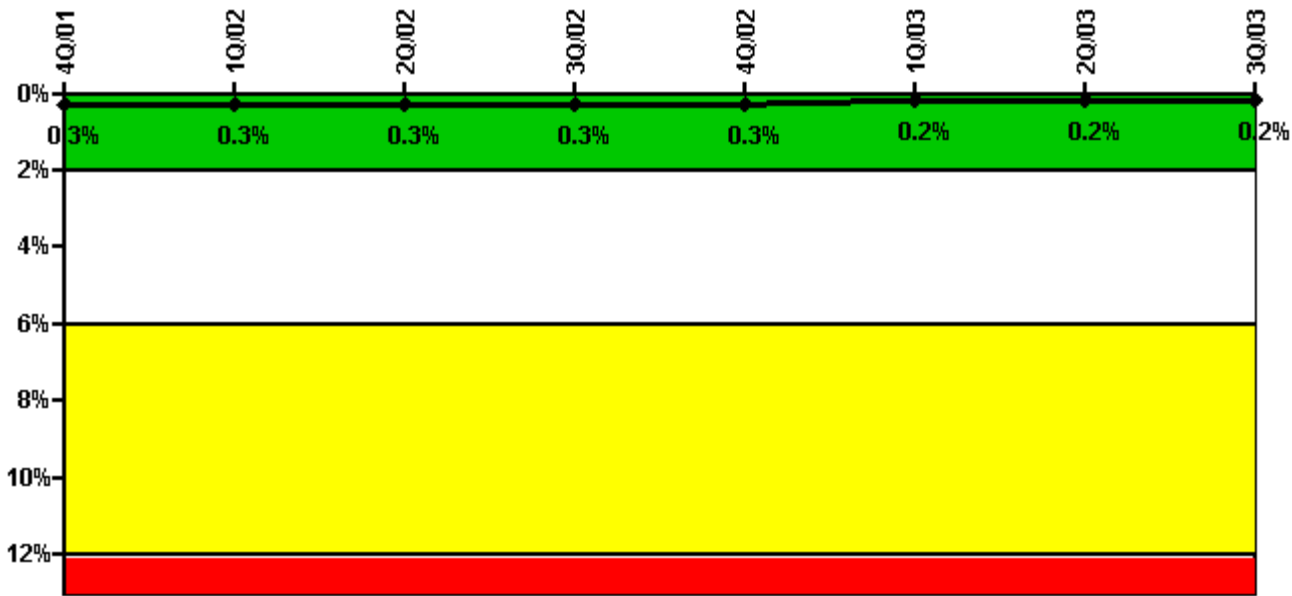
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0	0	0.80	0	1.84	0	0	4.96
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	2006.00	1968.90	1716.00	2208.00	2209.00	2160.00	2183.00	1953.00
Train 2								
Planned unavailable hours	0.50	1.20	1.85	3.46	12.16	1.05	1.30	2.30
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	2006.00	1968.90	1716.00	2208.00	2209.00	2160.00	2183.00	1953.00
Indicator value	0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



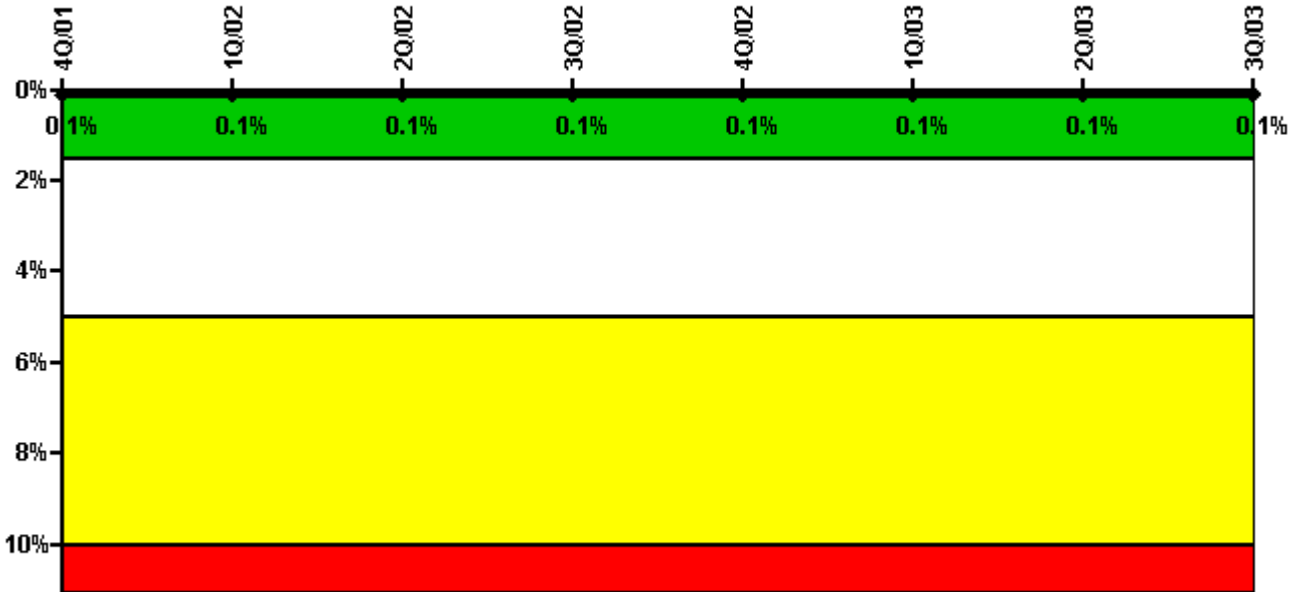
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	1.30	9.30	14.70	0.68	1.60	9.56	0.77	0.80
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	2006.00	1968.90	1716.00	2208.00	2209.00	2160.00	2183.00	1953.00
Train 2								
Planned unavailable hours	1.50	0.60	8.70	0.95	0.82	0.98	5.58	2.15
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2006.00	1968.90	1716.00	2208.00	2209.00	2160.00	2183.00	1953.00
Train 3								
Planned unavailable hours	1.30	11.90	1.20	1.20	1.80	2.32	16.93	2.16
Unplanned unavailable hours	0	0	3.80	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	2006.00	1968.90	1716.00	2208.00	2209.00	2160.00	2183.00	1953.00
Indicator value	0.3%	0.3%	0.3%	0.3%	0.3%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

Notes

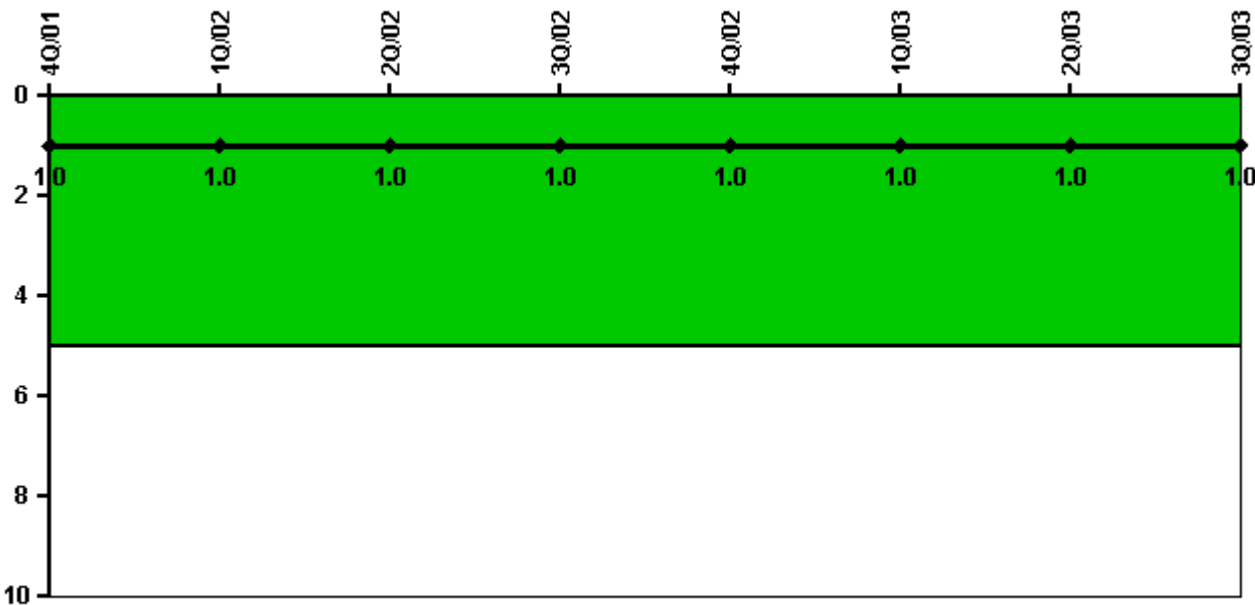
Safety System Unavailability, Residual Heat Removal System	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0	10.80	0.47	0.83	5.79	0.05	0.70	0.33
Unplanned unavailable hours	0	0	0	0	0.25	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1968.90	1716.00	2208.00	2209.00	2097.00	2183.00	1953.00
Train 2								
Planned unavailable hours	0.60	1.90	0	0.88	23.45	1.11	1.20	0.33
Unplanned unavailable hours	0	0	0.40	0	0	0	0	0.50
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	1968.90	1716.00	2208.00	2209.00	2097.00	2183.00	1953.00
Train 3								
Planned unavailable hours	0	10.00	0	0	0	0	0	11.60
Unplanned unavailable hours	0	0	5.85	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2097.00	2183.00	2208.00
Train 4								
Planned unavailable hours	0	10.20	0	0	0	0	0	10.70

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2097.00	2183.00	2208.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments:

3Q/03: The electrical breaker to the "B" inside recirculation spray pump failed to operate during a refueling outage surveillance test. This failure results in a fault exposure time of 12,581 hours and therefore, is amenable to evaluation through the Significance Determination Process. Accordingly, these fault exposure hours are excluded from this indicator. Reference NEI 99-02, Rev. 2, page 33, section titled "Equipment Unavailability due to Design Deficiency".

Safety System Functional Failures (PWR)



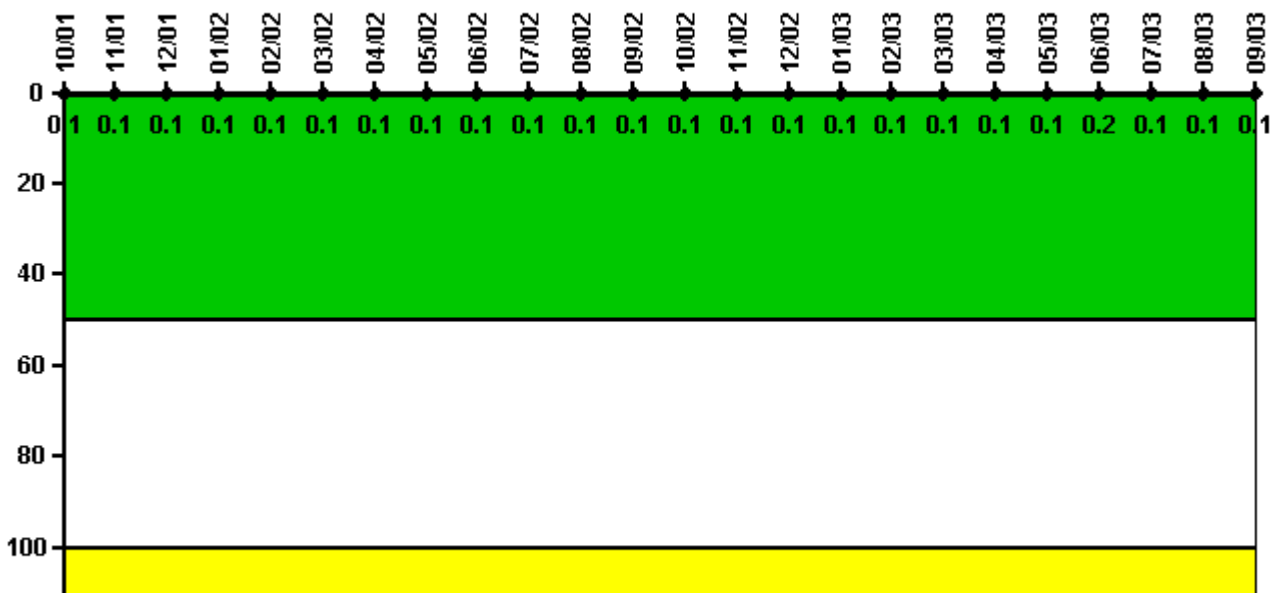
Thresholds: White > 5.0

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

Licensee Comments: none

Reactor Coolant System Activity



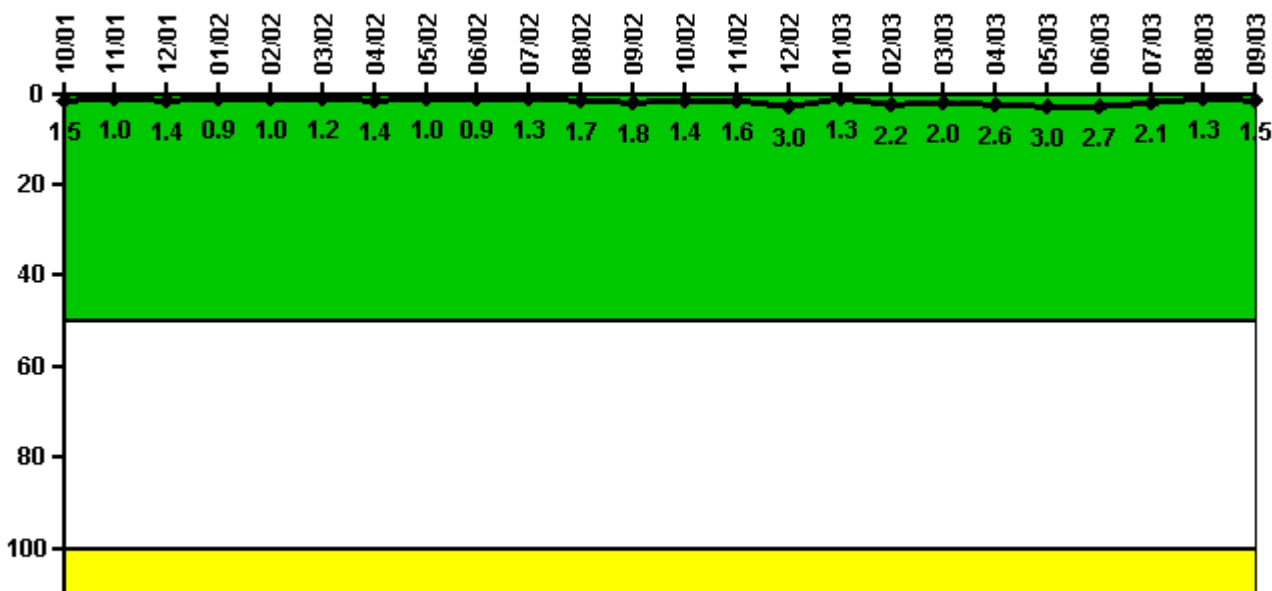
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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	0.001100	0.001140	0.001190	0.001140	0.001160	0.001350	0.000611	0.000791	0.000651	0.000748	0.000720	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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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	0.000729	0.000738	0.000758	0.000768	0.000753	0.000760	0.000903	0.001010	0.001870	0.000857	0.000853	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	0.2	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

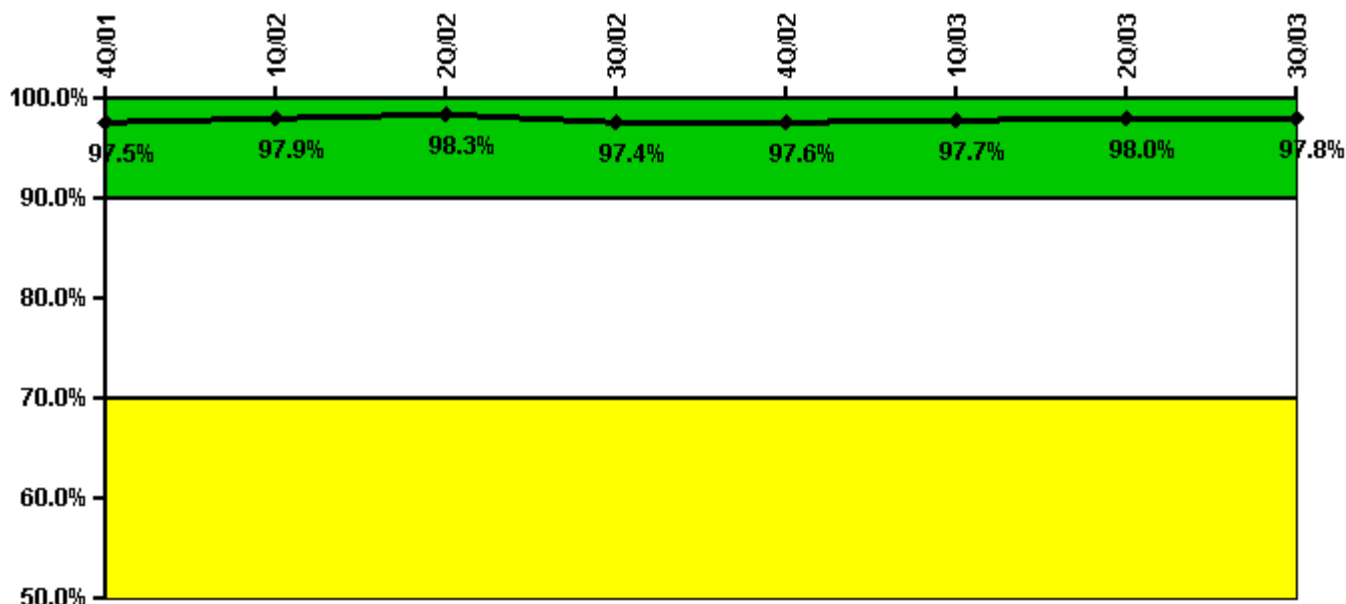
Notes

Reactor Coolant System Leakage	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum leakage	0.150	0.100	0.140	0.090	0.100	0.120	0.140	0.100	0.090	0.130	0.170	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	1.5	1.0	1.4	0.9	1.0	1.2	1.4	1.0	0.9	1.3	1.7	1.8

Reactor Coolant System Leakage	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum leakage	0.140	0.160	0.300	0.130	0.220	0.200	0.260	0.300	0.270	0.210	0.130	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	1.4	1.6	3.0	1.3	2.2	2.0	2.6	3.0	2.7	2.1	1.3	1.5

Licensee Comments: none

Drill/Exercise Performance



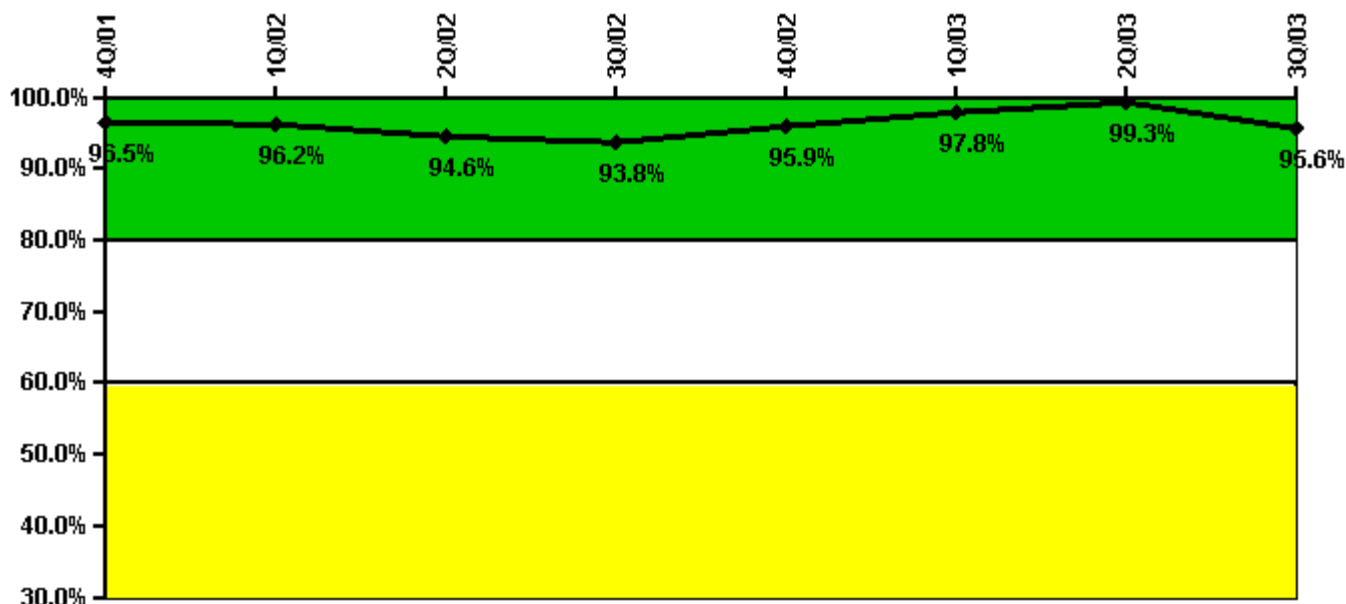
Thresholds: White < 90.0% Yellow < 70.0%

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



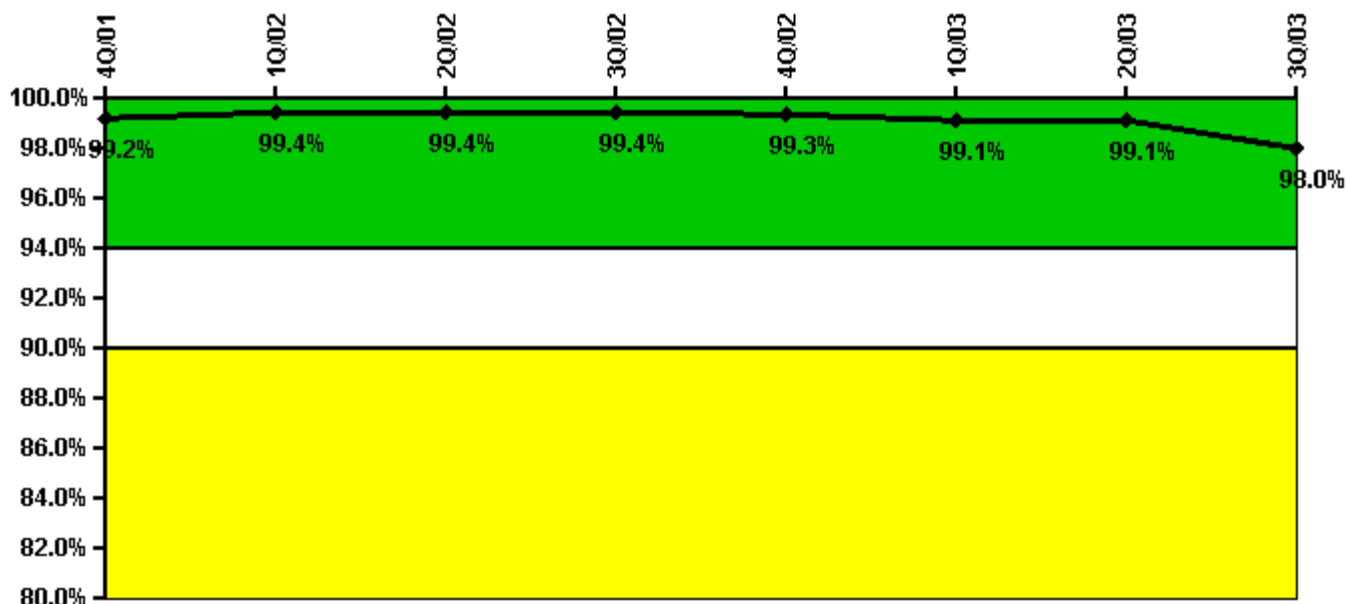
Thresholds: White < 80.0% Yellow < 60.0%

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



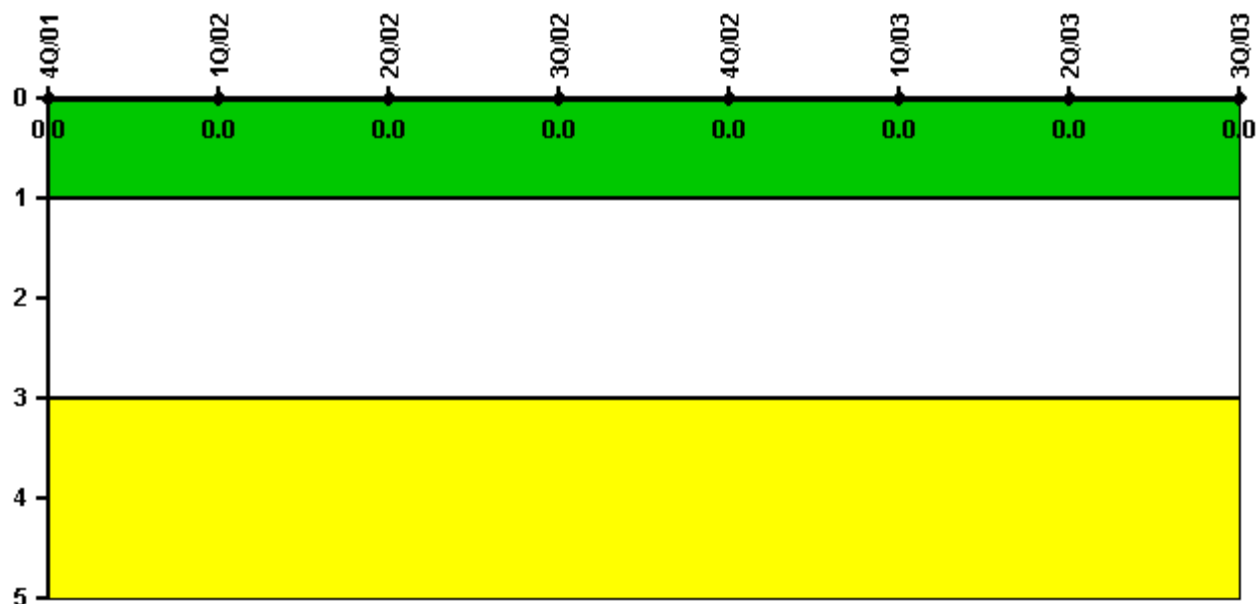
Thresholds: White > 2.0 Yellow > 5.0

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



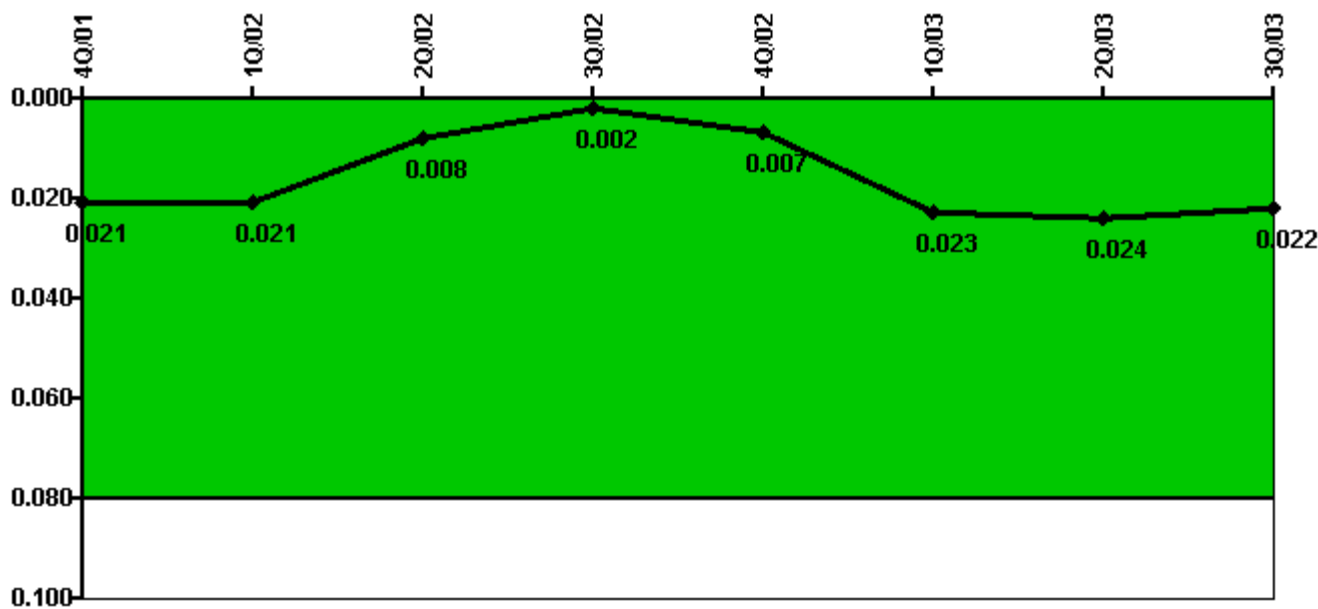
Thresholds: White > 1.0 Yellow > 3.0

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



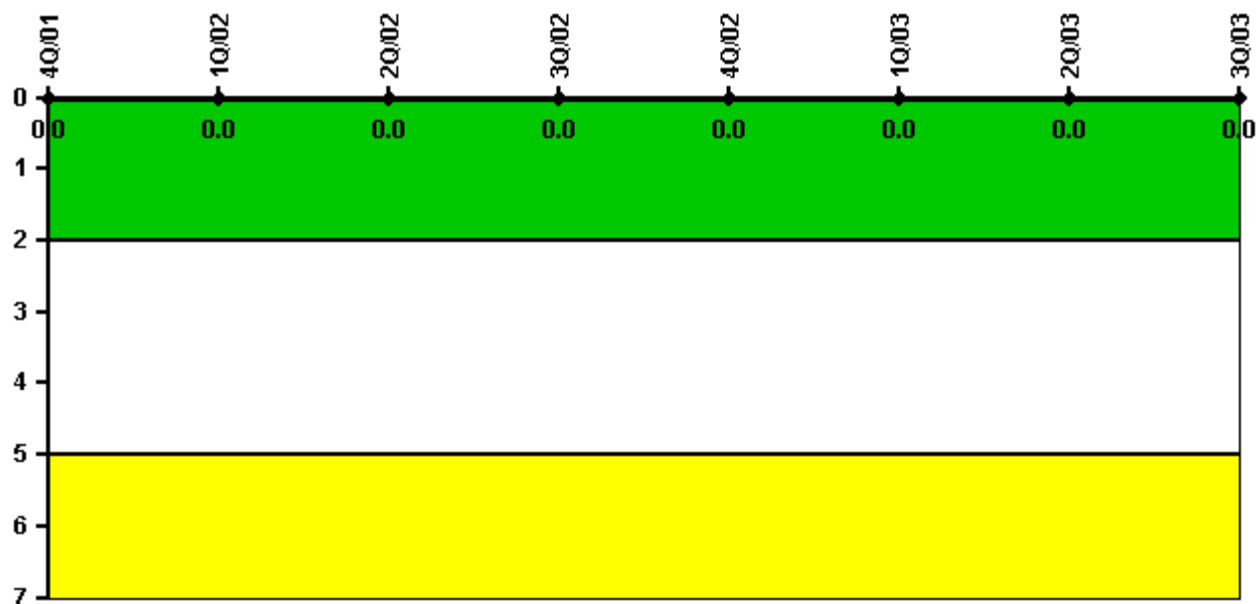
Thresholds: White > 0.080

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



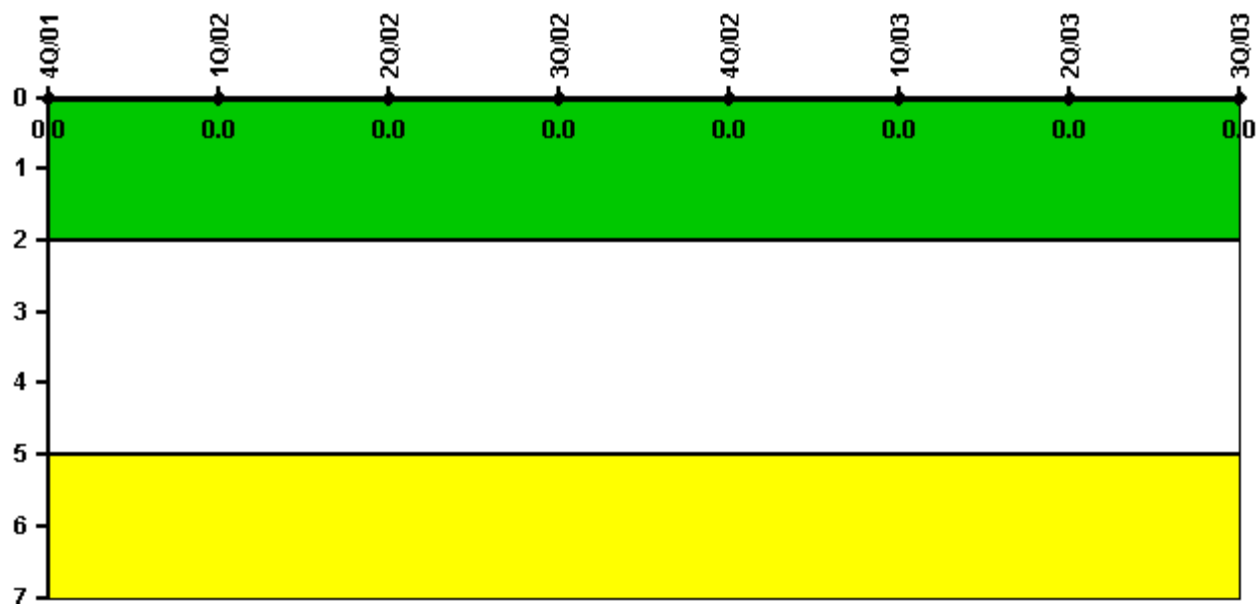
Thresholds: White > 2.0 Yellow > 5.0

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](#)

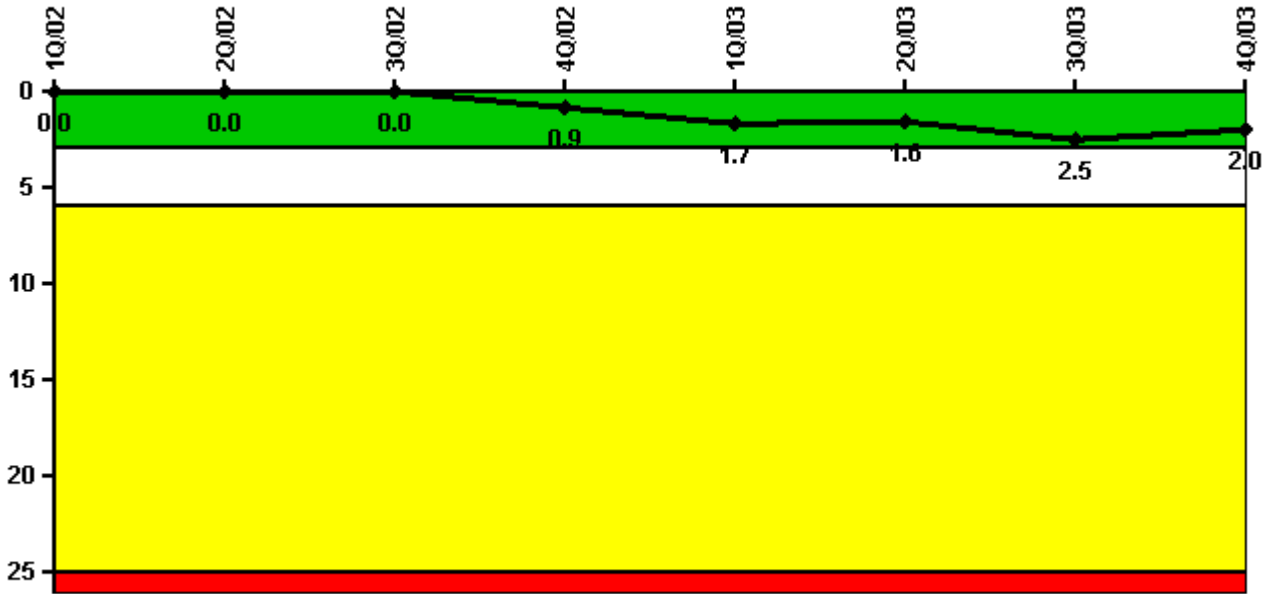
Last Modified: October 22, 2003

Surry 2

4Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned scrams	0	0	0	1.0	1.0	0	1.0	0
Critical hours	1968.9	1716.0	2208.0	2172.7	2097.1	2183.0	1913.5	885.3
Indicator value	0	0	0	0.9	1.7	1.6	2.5	2.0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



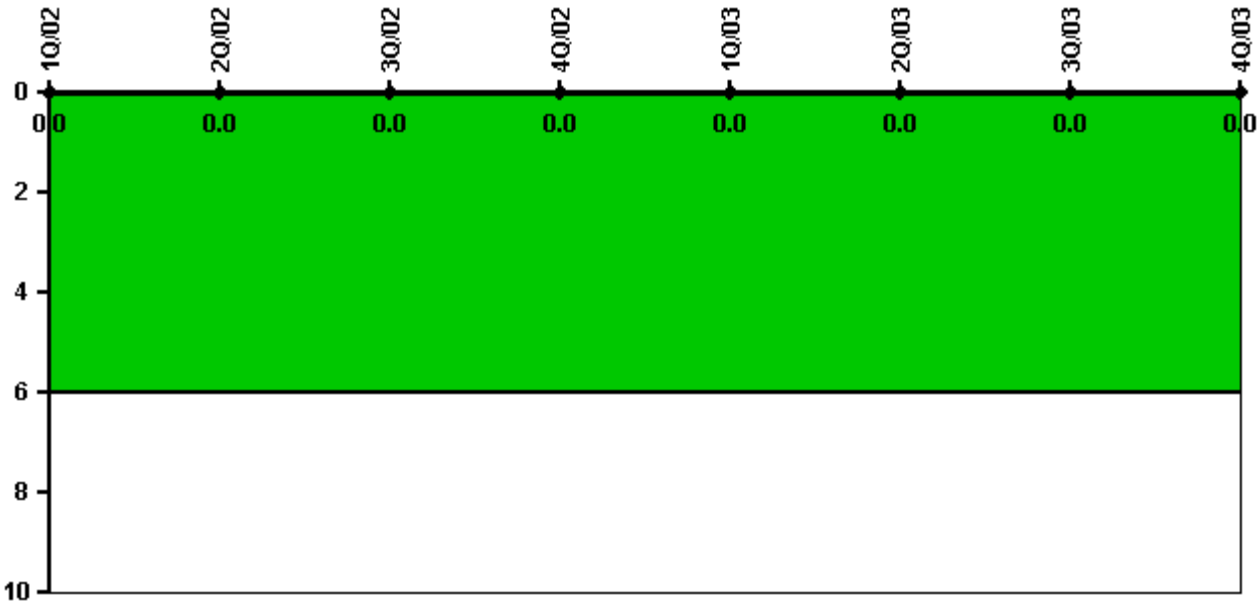
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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



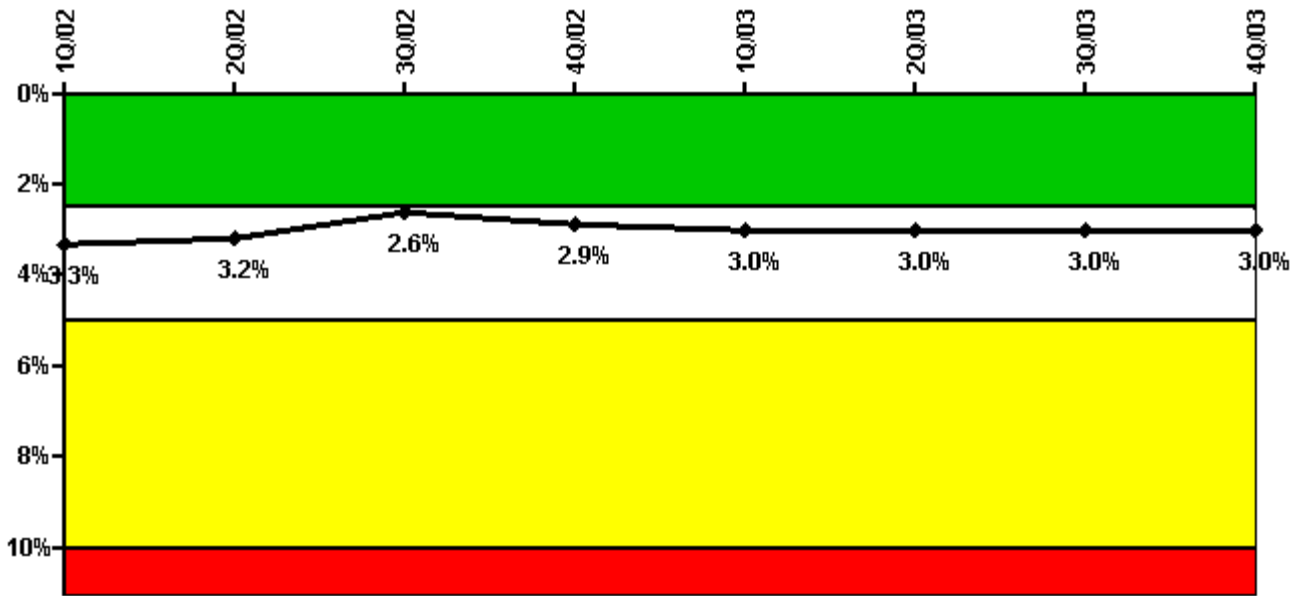
Thresholds: White > 6.0

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	0	0	0	0	0	0
Critical hours	1968.9	1716.0	2208.0	2172.7	2097.1	2183.0	1913.5	885.3
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



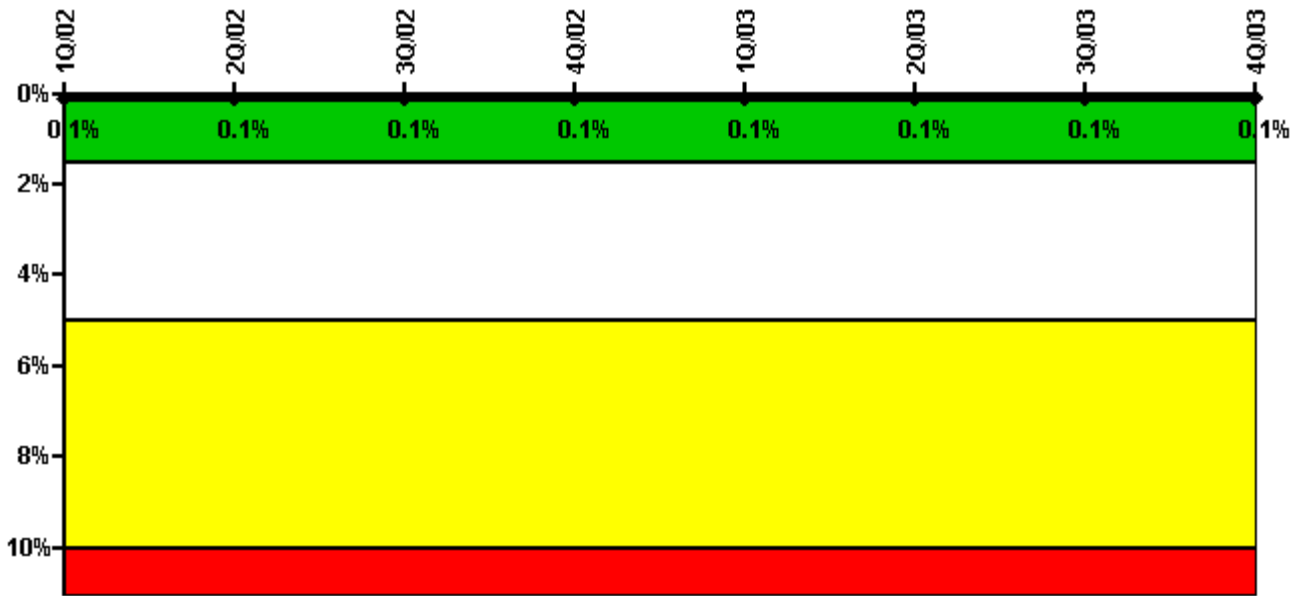
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	23.48	12.57	20.43	11.90	29.87	9.27	90.55	6.87
Unplanned unavailable hours	10.50	0.32	0	0	0	1.90	16.23	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	336.03	0	0	0	0	0
Required hours	1978.30	1791.42	2208.00	2209.00	2160.00	2183.00	1952.88	1215.90
Train 2								
Planned unavailable hours	15.60	25.40	22.58	138.18	14.73	62.79	13.16	8.92
Unplanned unavailable hours	7.37	0	9.50	85.35	18.17	38.62	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1978.30	1791.42	2208.00	2209.00	2160.00	2183.00	1952.88	1215.90
Indicator value	3.3%	3.2%	2.6%	2.9%	3.0%	3.0%	3.0%	3.0%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



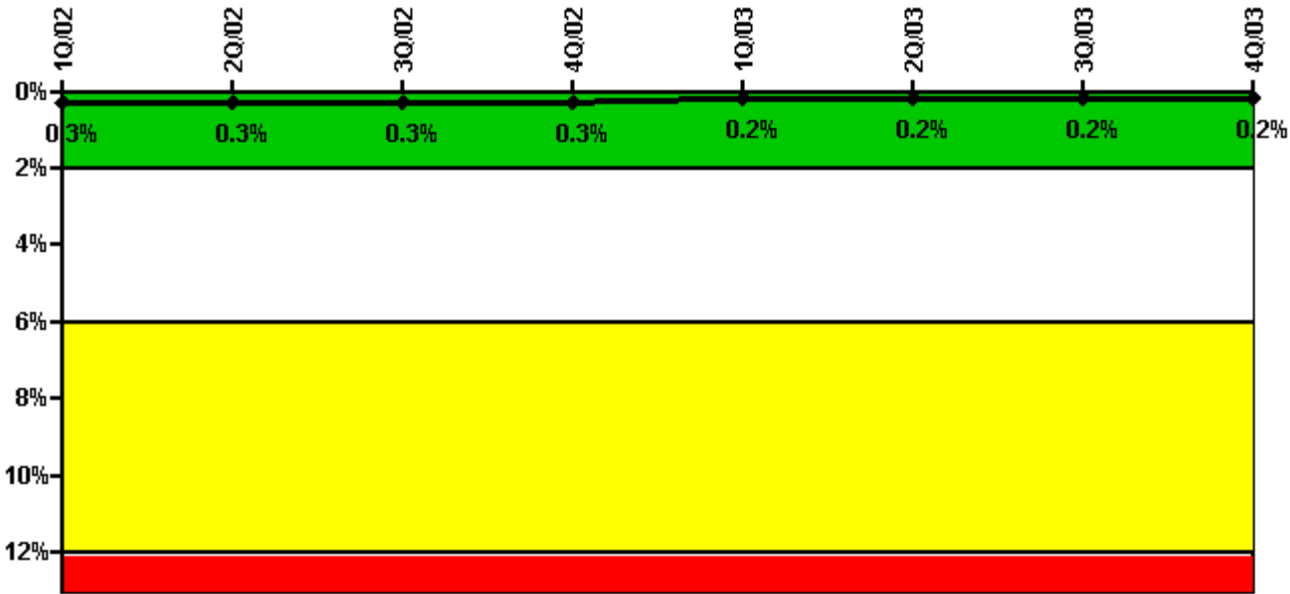
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	0	0.80	0	1.84	0	0	4.96	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	1968.90	1716.00	2208.00	2209.00	2160.00	2183.00	1953.00	896.00
Train 2								
Planned unavailable hours	1.20	1.85	3.46	12.16	1.05	1.30	2.30	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	1968.90	1716.00	2208.00	2209.00	2160.00	2183.00	1953.00	896.00
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)



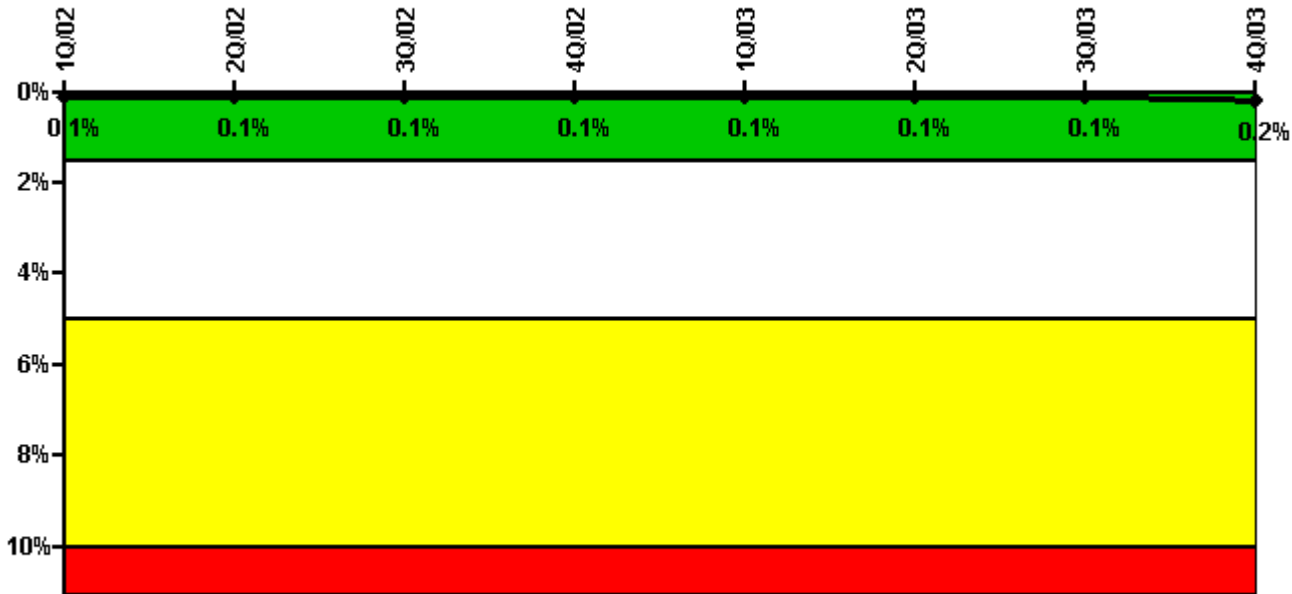
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	9.30	14.70	0.68	1.60	9.56	0.77	0.80	9.15
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1968.90	1716.00	2208.00	2209.00	2160.00	2183.00	1953.00	896.00
Train 2								
Planned unavailable hours	0.60	8.70	0.95	0.82	0.98	5.58	2.15	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	1968.90	1716.00	2208.00	2209.00	2160.00	2183.00	1953.00	896.00
Train 3								
Planned unavailable hours	11.90	1.20	1.20	1.80	2.32	16.93	2.16	0.90
Unplanned unavailable hours	0	3.80	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	1968.90	1716.00	2208.00	2209.00	2160.00	2183.00	1953.00	680.00
Indicator value	0.3%	0.3%	0.3%	0.3%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

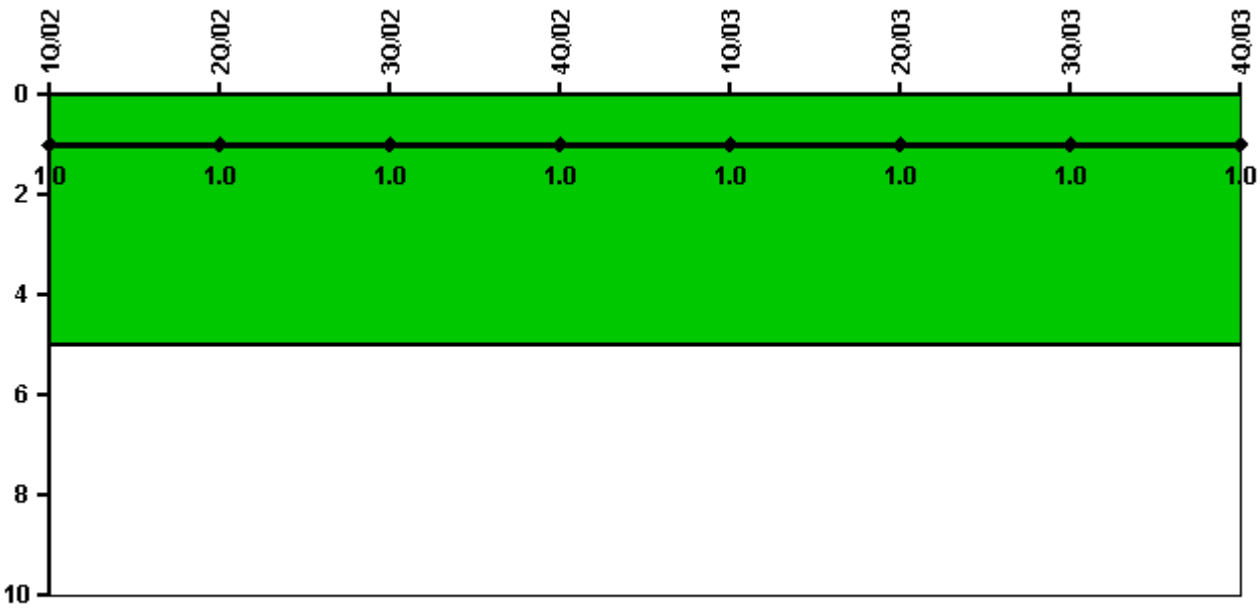
Notes

Safety System Unavailability, Residual Heat Removal System	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	10.80	0.47	0.83	5.79	0.05	0.70	0.33	19.70
Unplanned unavailable hours	0	0	0	0.25	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1968.90	1716.00	2208.00	2209.00	2097.00	2183.00	1953.00	1439.00
Train 2								
Planned unavailable hours	1.90	0	0.88	23.45	1.11	1.20	0.33	19.70
Unplanned unavailable hours	0	0.40	0	0	0	0	0.50	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1968.90	1716.00	2208.00	2209.00	2097.00	2183.00	1953.00	1439.00
Train 3								
Planned unavailable hours	10.00	0	0	0	0	0	11.60	20.10
Unplanned unavailable hours	0	5.85	0	0	0	0	0	0
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	2097.00	2183.00	2208.00	1687.00
Train 4								
Planned unavailable hours	10.20	0	0	0	0	0	10.70	0

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2097.00	2183.00	2208.00	1687.00
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)



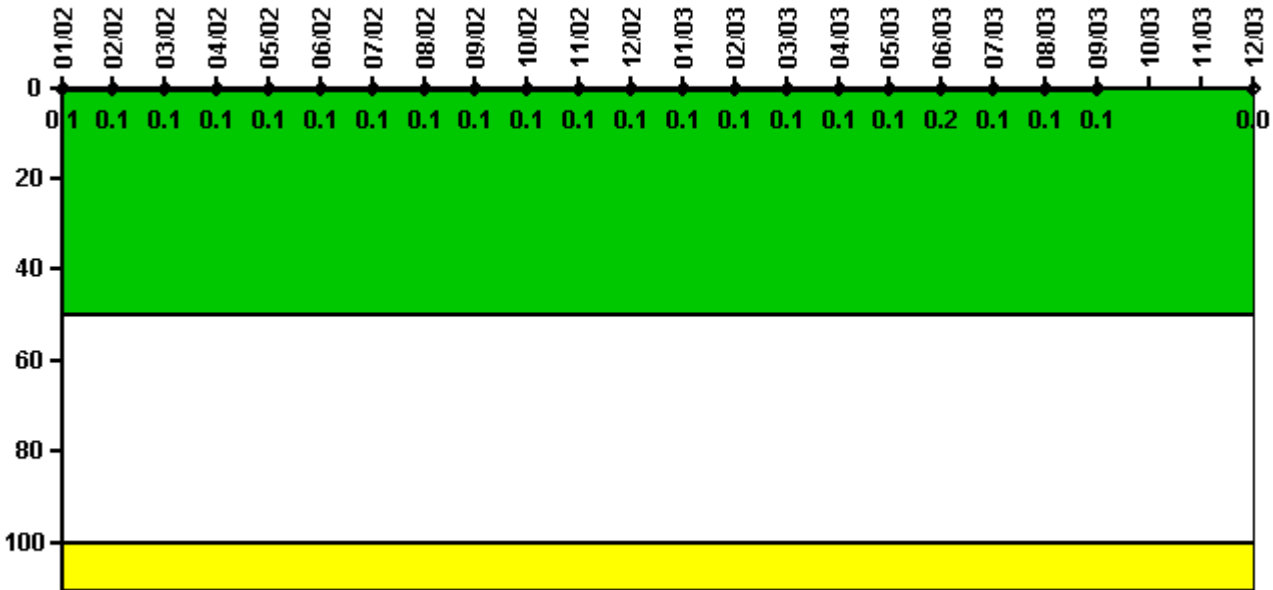
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

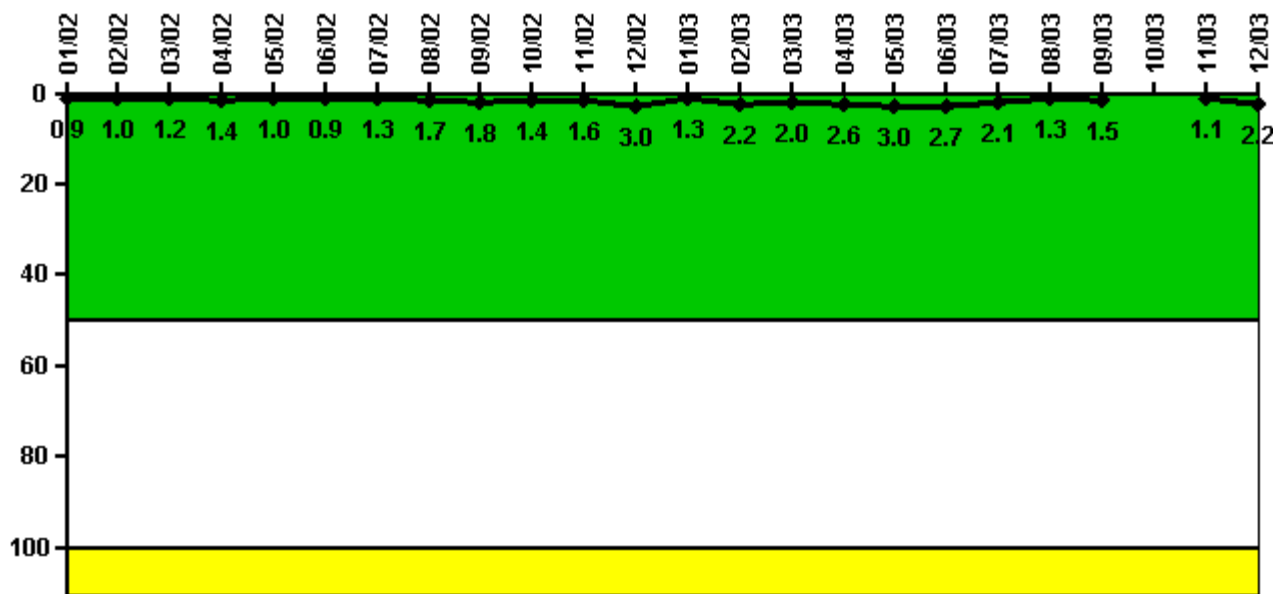
Notes

Reactor Coolant System Activity	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum activity	0.001140	0.001160	0.001350	0.000611	0.000791	0.000651	0.000748	0.000720	0.000722	0.000729	0.000738	0.000758
Technical specification limit	1.0	1.0	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	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum activity	0.000768	0.000753	0.000760	0.000903	0.001010	0.001870	0.000857	0.000853	0.001030	N/A	N/A	0.000318
Technical specification limit	1.0	1.0	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	0.1	0.1	0.1	N/A	N/A	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

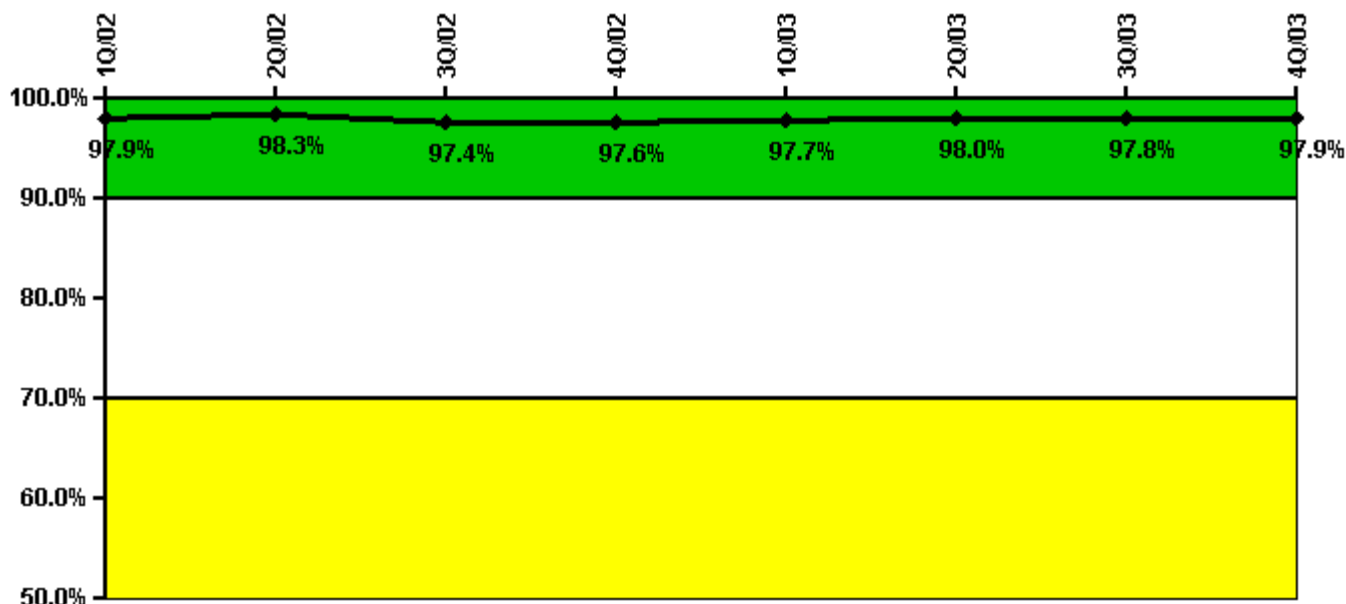
Notes

Reactor Coolant System Leakage	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum leakage	0.090	0.100	0.120	0.140	0.100	0.090	0.130	0.170	0.180	0.140	0.160	0.300
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.9	1.0	1.2	1.4	1.0	0.9	1.3	1.7	1.8	1.4	1.6	3.0

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	0.130	0.220	0.200	0.260	0.300	0.270	0.210	0.130	0.150	N/A	0.110	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	2.2	2.0	2.6	3.0	2.7	2.1	1.3	1.5	N/A	1.1	2.2

Licensee Comments: none

Drill/Exercise Performance



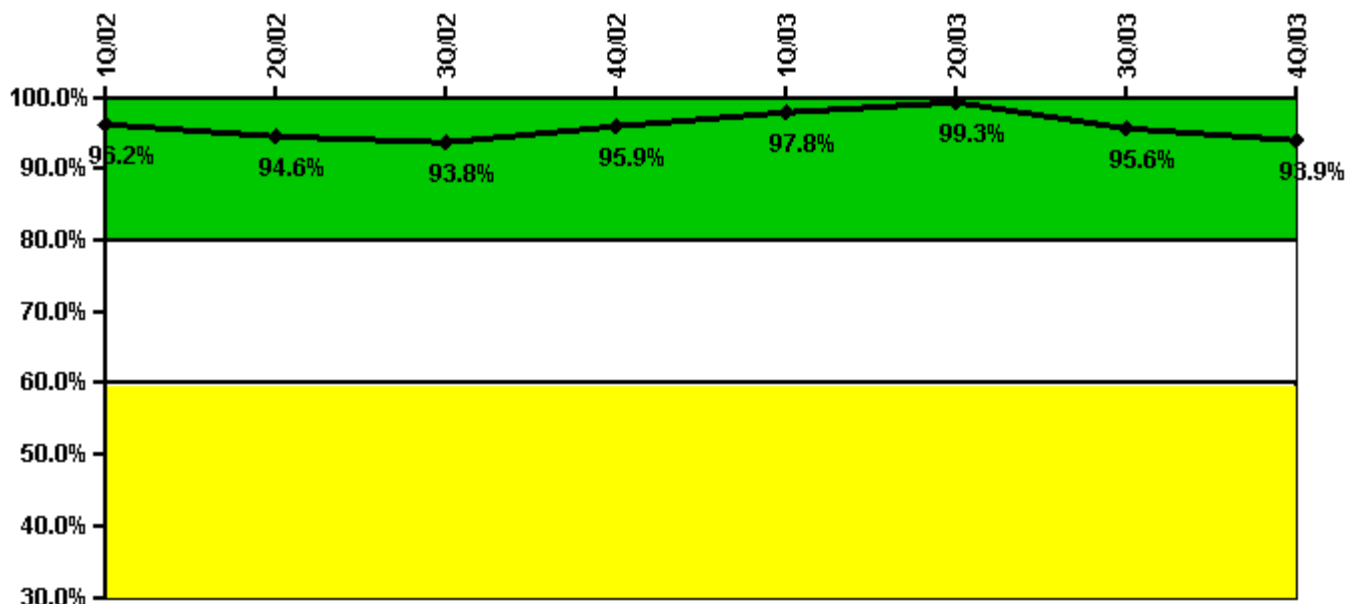
Thresholds: White < 90.0% Yellow < 70.0%

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



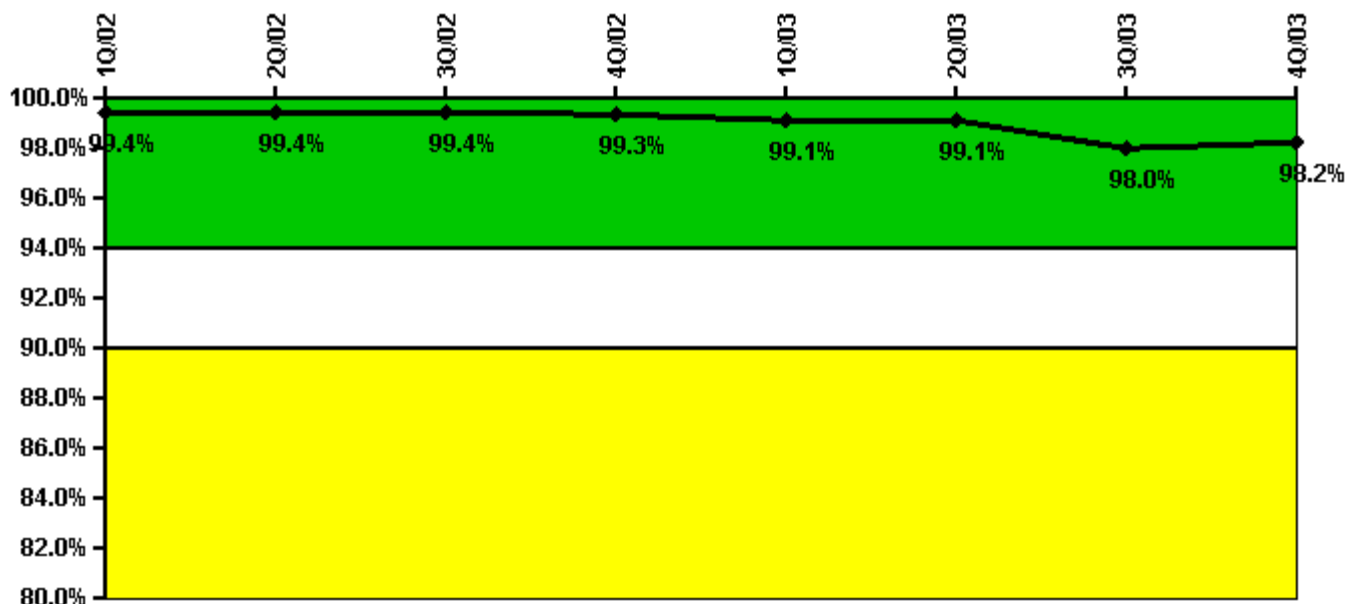
Thresholds: White < 80.0% Yellow < 60.0%

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



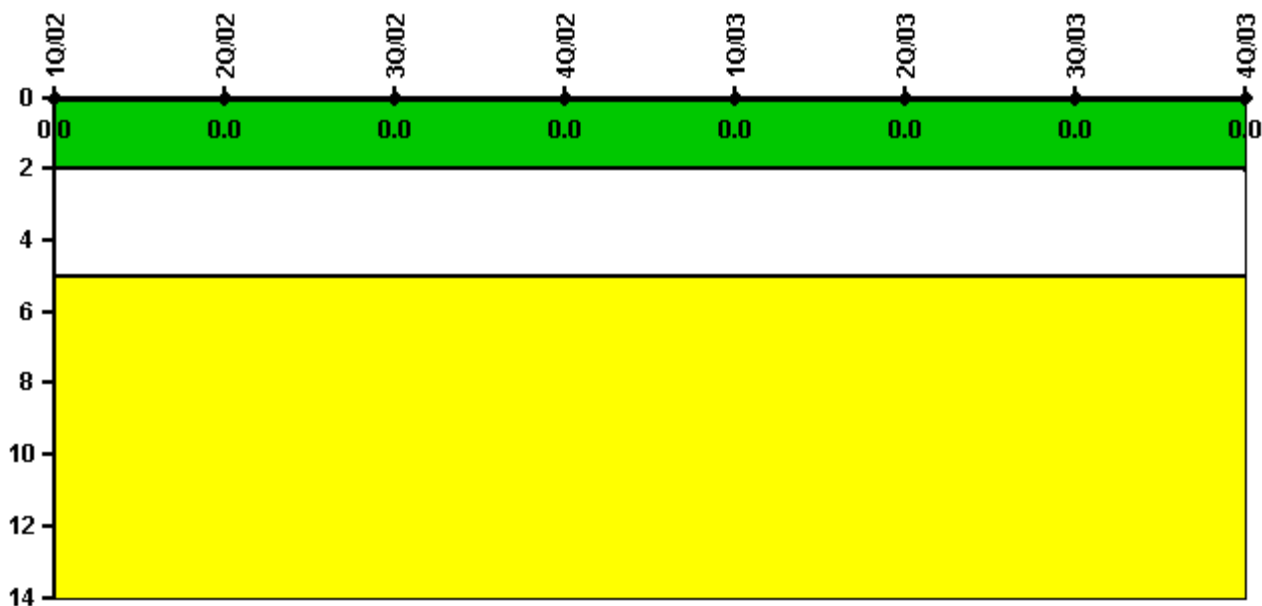
Thresholds: White < 94.0% Yellow < 90.0%

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



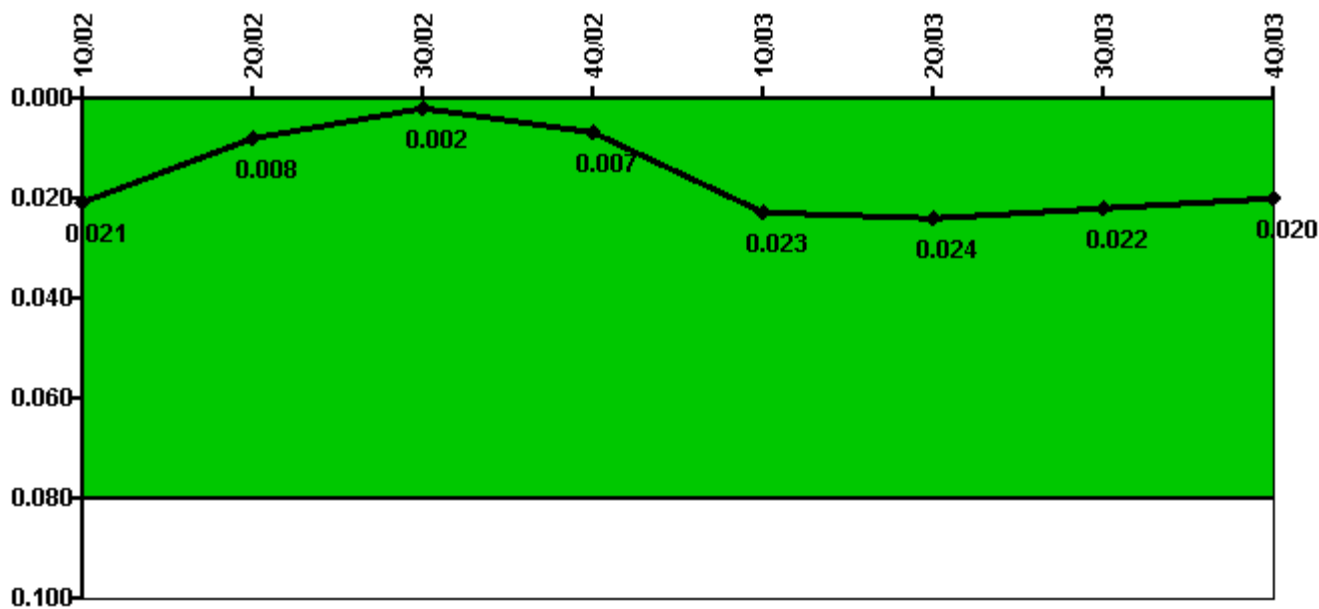
Thresholds: White > 1.0 Yellow > 3.0

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



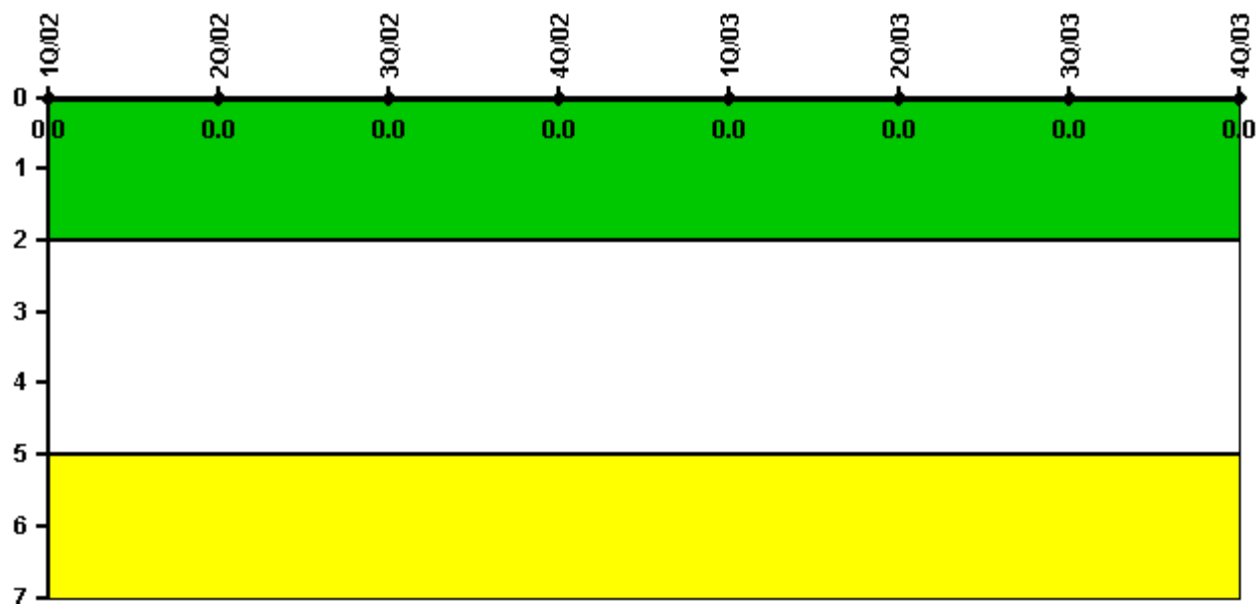
Thresholds: White > 0.080

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



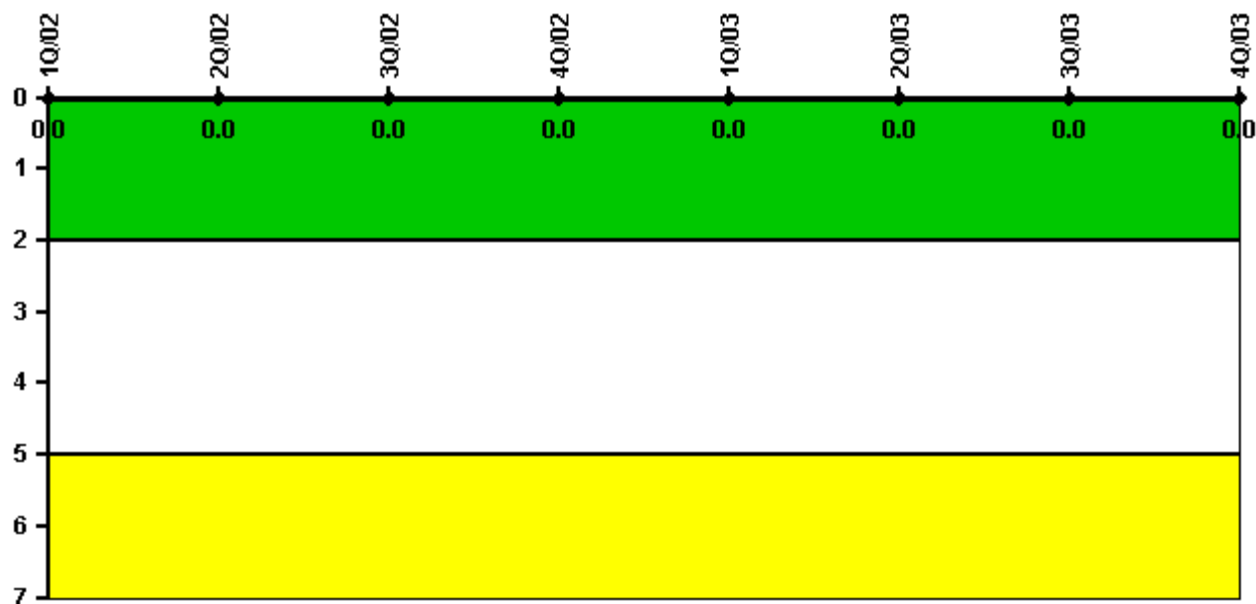
Thresholds: White > 2.0 Yellow > 5.0

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](#)

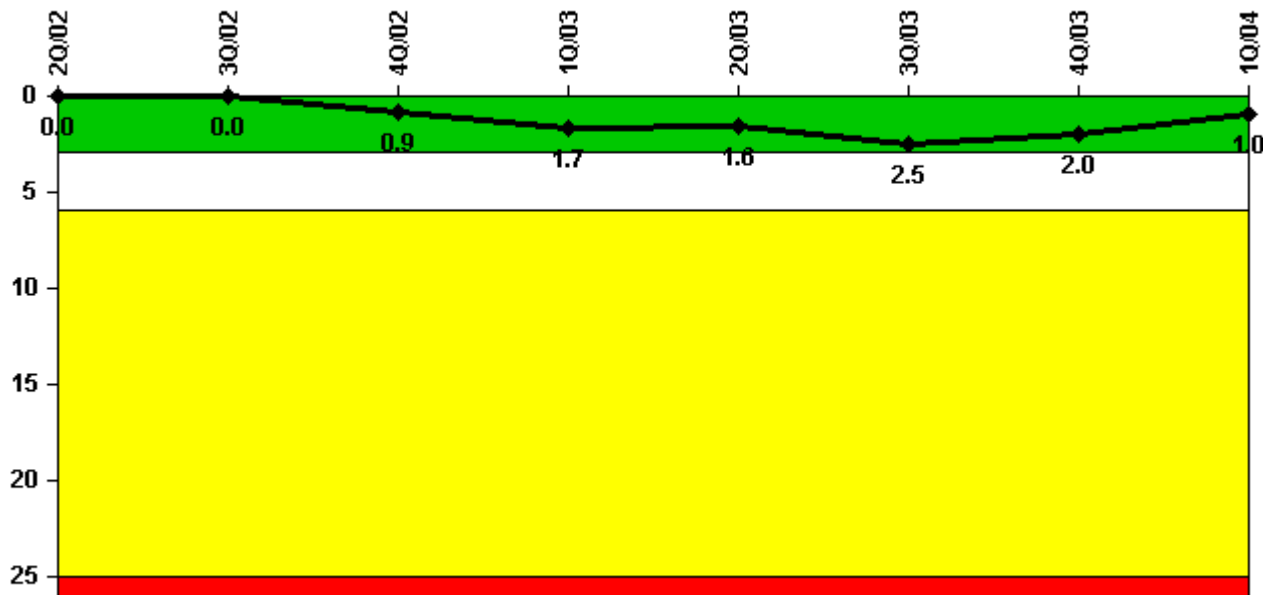
Last Modified: January 23, 2004

Surry 2

1Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



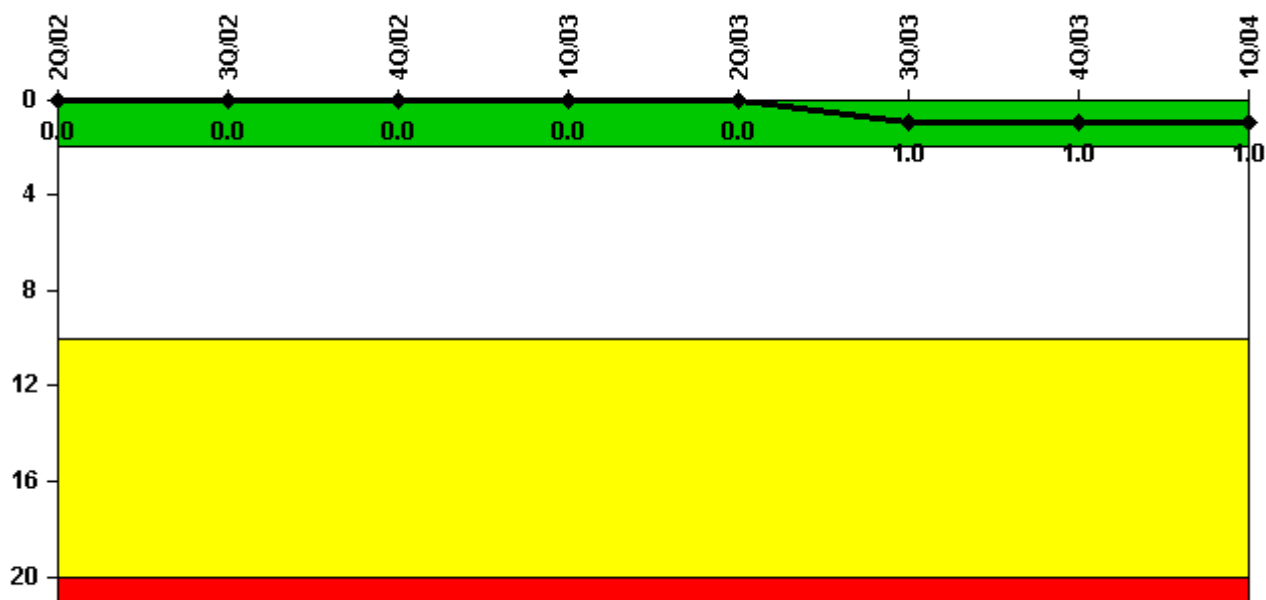
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned scrams	0	0	1.0	1.0	0	1.0	0	0
Critical hours	1716.0	2208.0	2172.7	2097.1	2183.0	1913.5	885.3	2184.0
Indicator value	0	0	0.9	1.7	1.6	2.5	2.0	1.0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



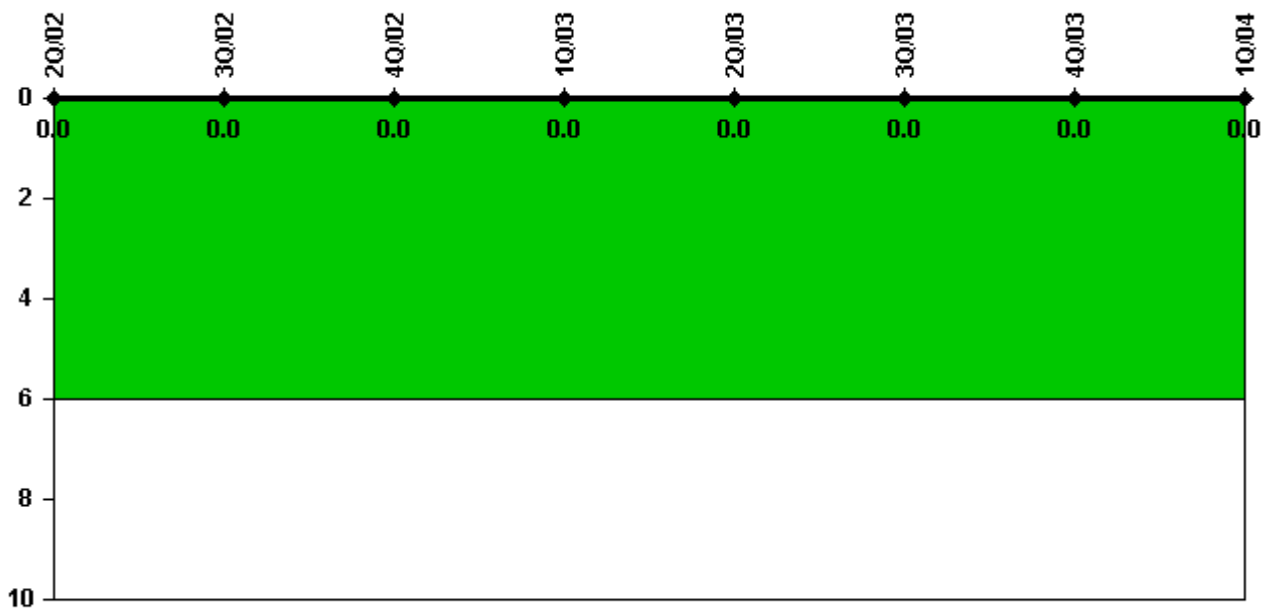
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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



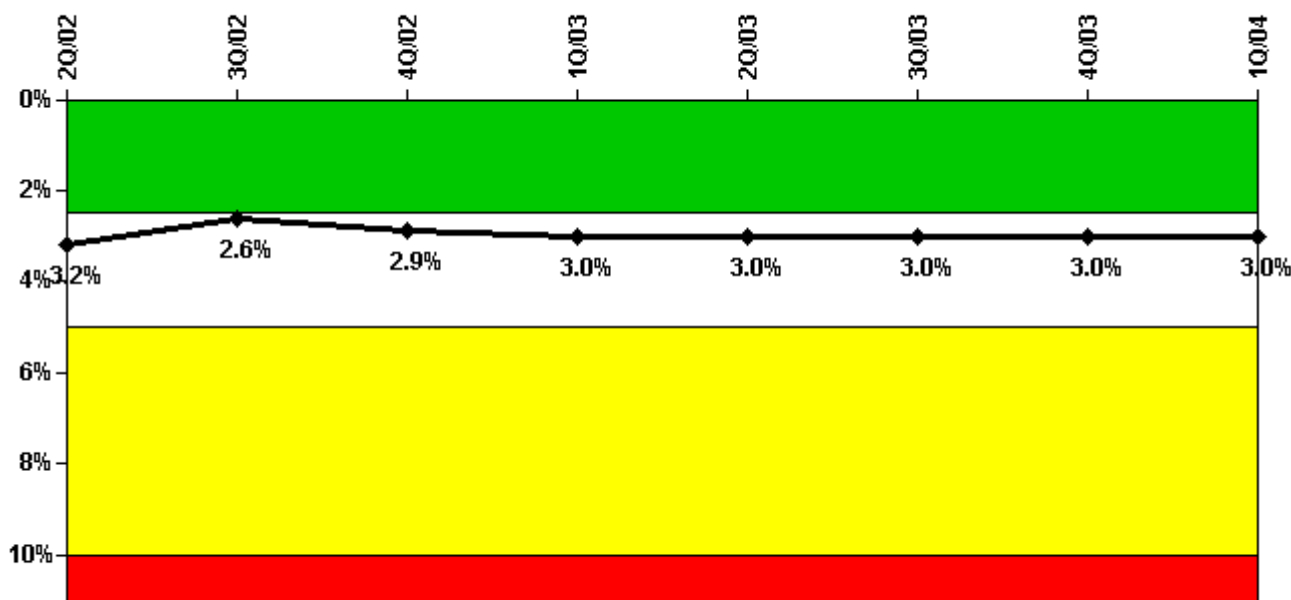
Thresholds: White > 6.0

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	0	0	0	0	0	0	0
Critical hours	1716.0	2208.0	2172.7	2097.1	2183.0	1913.5	885.3	2184.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



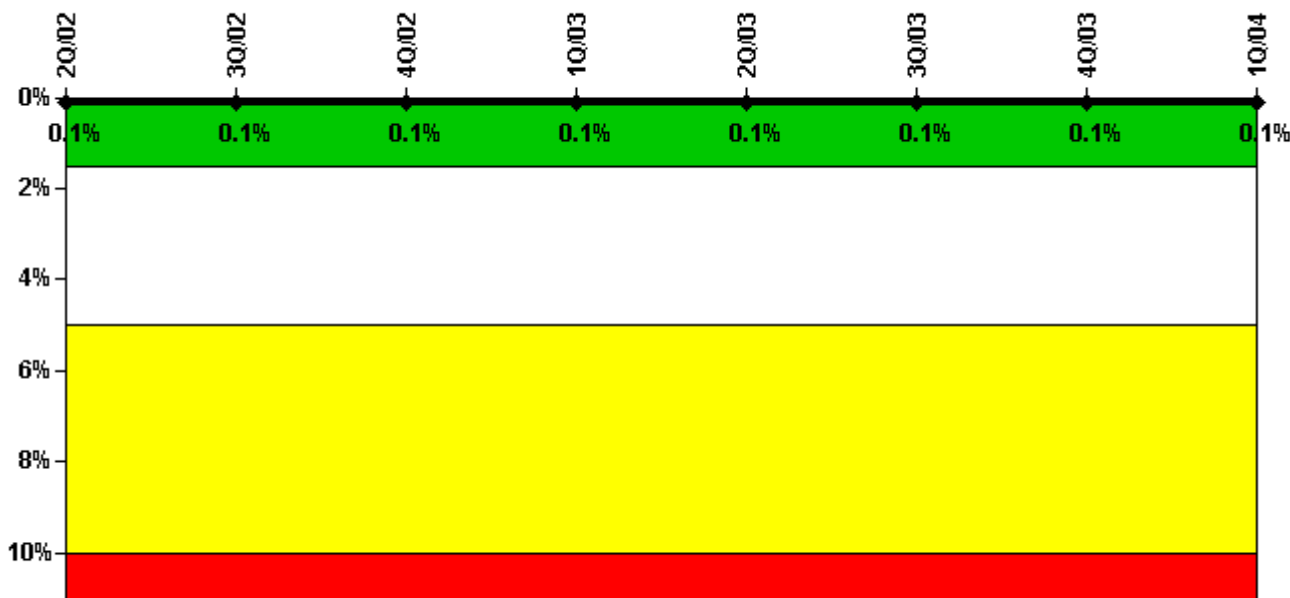
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	12.57	20.43	11.90	29.87	9.27	90.55	6.87	17.66
Unplanned unavailable hours	0.32	0	0	0	1.90	16.23	0	1.38
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	336.03	0	0	0	0	0	0
Required hours	1791.42	2208.00	2209.00	2160.00	2183.00	1952.88	1215.90	2184.00
Train 2								
Planned unavailable hours	25.40	22.58	138.18	14.73	62.79	13.16	8.92	21.35
Unplanned unavailable hours	0	9.50	85.35	18.17	38.62	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1791.42	2208.00	2209.00	2160.00	2183.00	1952.88	1215.90	2184.00
Indicator value	3.2%	2.6%	2.9%	3.0%	3.0%	3.0%	3.0%	3.0%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



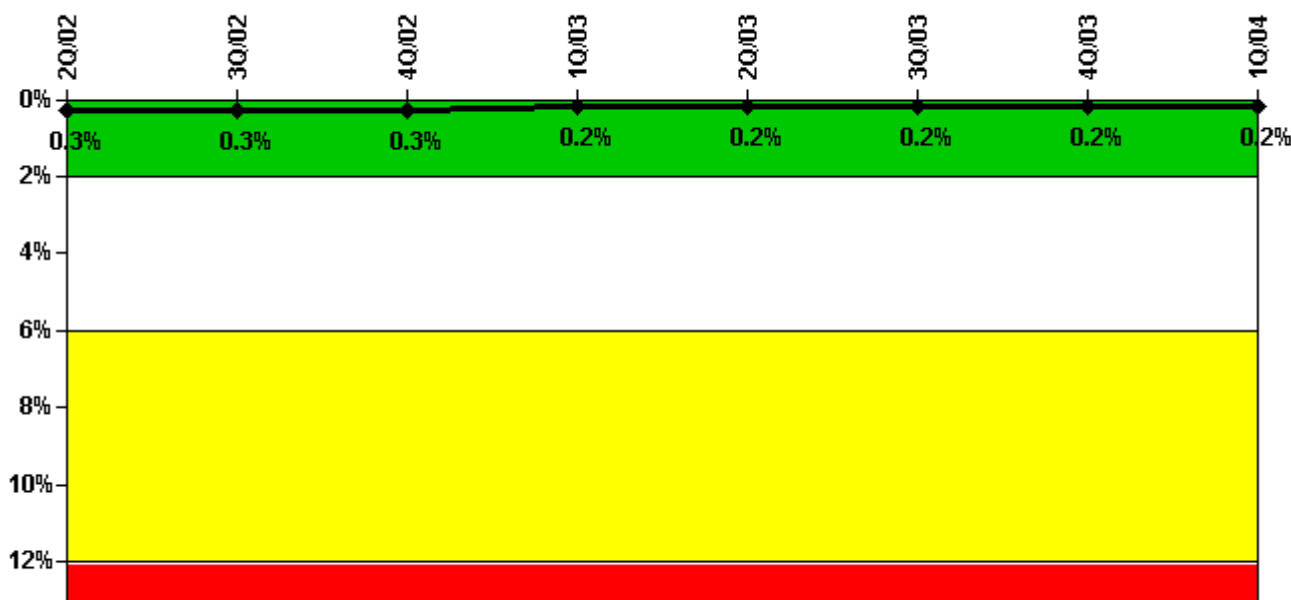
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0.80	0	1.84	0	0	4.96	0	6.35
Unplanned unavailable hours	0	0	0	0	0	0	0	0.80
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1716.00	2208.00	2209.00	2160.00	2183.00	1953.00	896.00	2184.00
Train 2								
Planned unavailable hours	1.85	3.46	12.16	1.05	1.30	2.30	0	2.71
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1716.00	2208.00	2209.00	2160.00	2183.00	1953.00	896.00	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)



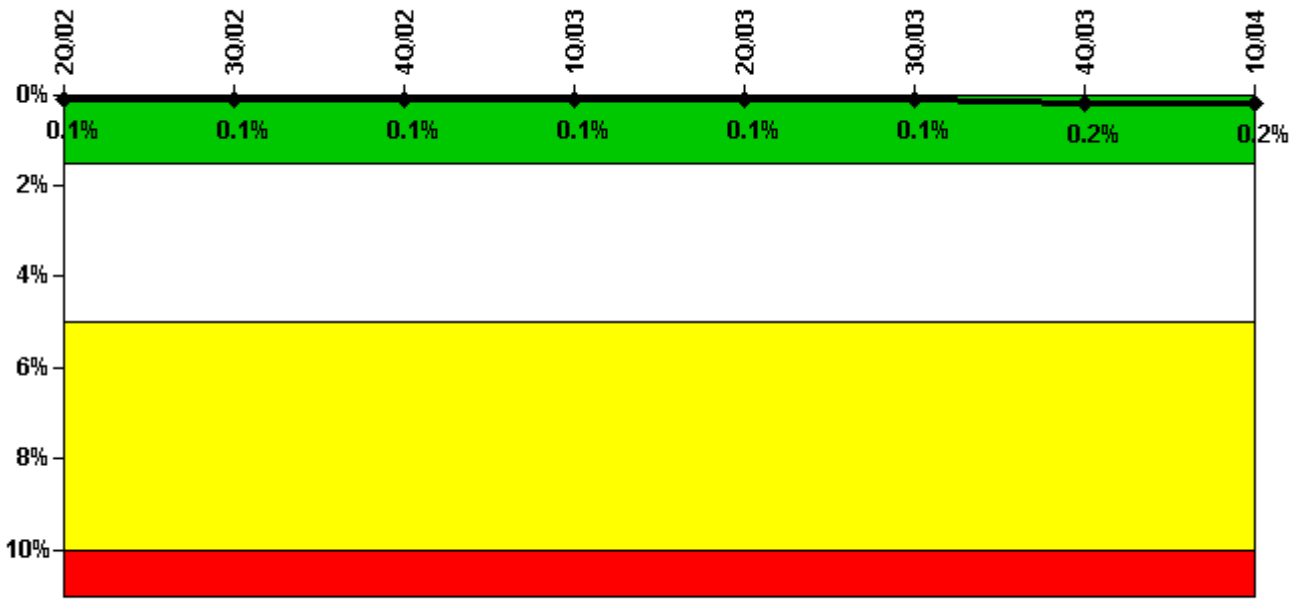
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	14.70	0.68	1.60	9.56	0.77	0.80	9.15	0.73
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1716.00	2208.00	2209.00	2160.00	2183.00	1953.00	896.00	2184.00
Train 2								
Planned unavailable hours	8.70	0.95	0.82	0.98	5.58	2.15	0	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	1716.00	2208.00	2209.00	2160.00	2183.00	1953.00	896.00	2184.00
Train 3								
Planned unavailable hours	1.20	1.20	1.80	2.32	16.93	2.16	0.90	1.88
Unplanned unavailable hours	3.80	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	1716.00	2208.00	2209.00	2160.00	2183.00	1953.00	680.00	2184.00
Indicator value	0.3%	0.3%	0.3%	0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



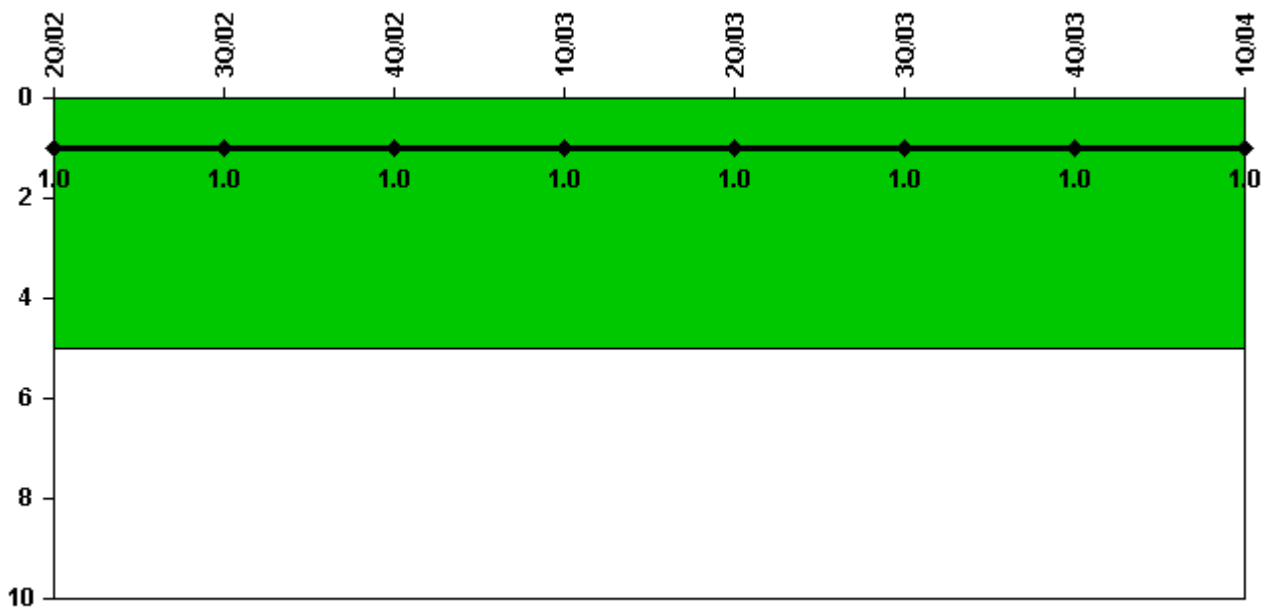
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0.47	0.83	5.79	0.05	0.70	0.33	19.70	9.19
Unplanned unavailable hours	0	0	0.25	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1716.00	2208.00	2209.00	2097.00	2183.00	1953.00	1439.00	2184.00
Train 2								
Planned unavailable hours	0	0.88	23.45	1.11	1.20	0.33	19.70	15.25
Unplanned unavailable hours	0.40	0	0	0	0	0.50	0	22.77
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1716.00	2208.00	2209.00	2097.00	2183.00	1953.00	1439.00	2184.00
Train 3								
Planned unavailable hours	0	0	0	0	0	11.60	20.10	0
Unplanned unavailable hours	5.85	0	0	0	0	0	0	0
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	2097.00	2183.00	2208.00	1687.00	2184.00
Train 4								
Planned unavailable hours	0	0	0	0	0	10.70	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	2097.00	2183.00	2208.00	1687.00	2184.00
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)



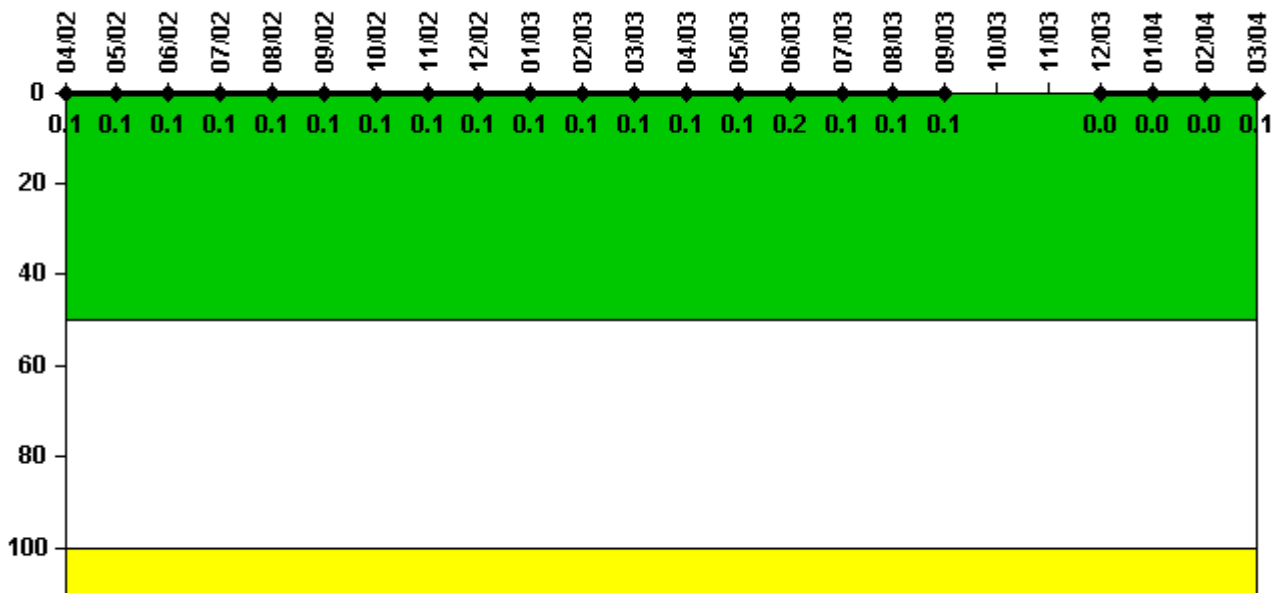
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

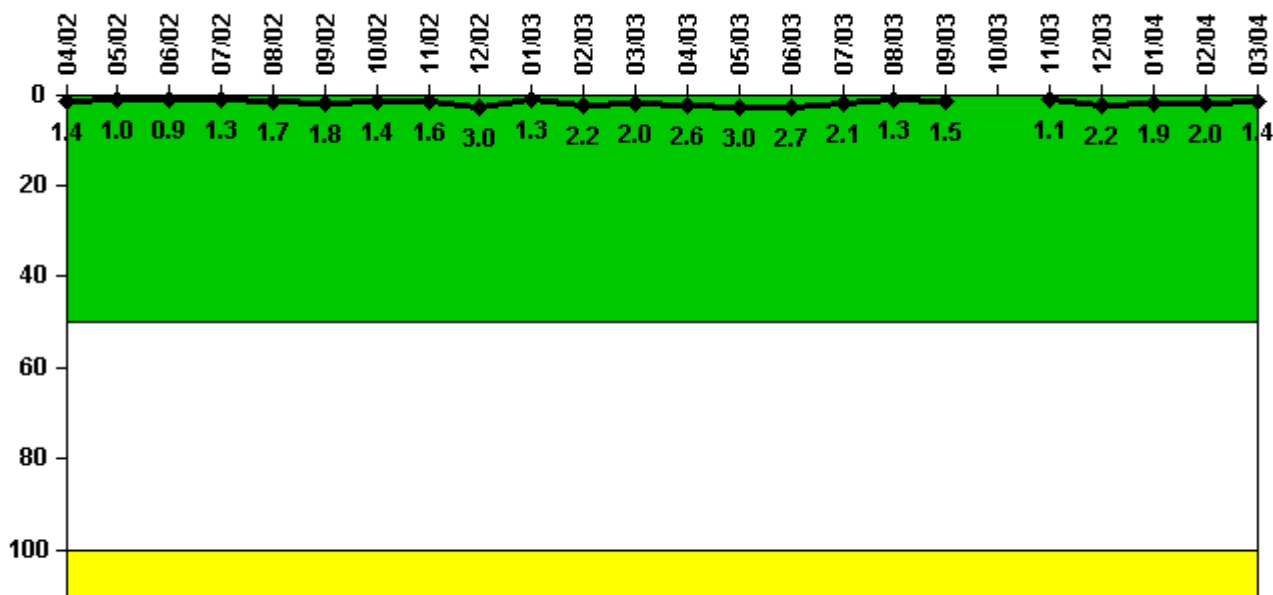
Notes

Reactor Coolant System Activity	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	0.000611	0.000791	0.000651	0.000748	0.000720	0.000722	0.000729	0.000738	0.000758	0.000768	0.000753	0.000760
Technical specification limit	1.0	1.0	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	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04
Maximum activity	0.000903	0.001010	0.001870	0.000857	0.000853	0.001030	N/A	N/A	0.000318	0.000338	0.000316	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	0.2	0.1	0.1	0.1	N/A	N/A	0	0	0	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

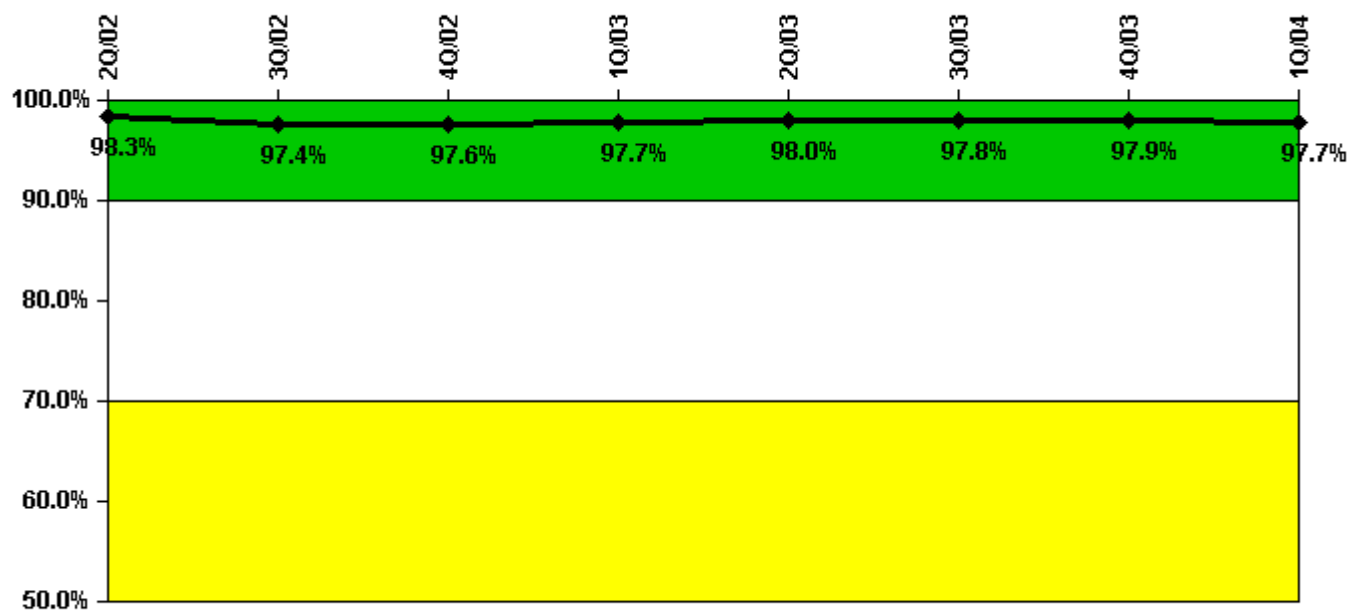
Notes

Reactor Coolant System Leakage	4/02	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	0.100	0.090	0.130	0.170	0.180	0.140	0.160	0.300	0.130	0.220	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	1.4	1.0	0.9	1.3	1.7	1.8	1.4	1.6	3.0	1.3	2.2	2.0

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	0.260	0.300	0.270	0.210	0.130	0.150	N/A	0.110	0.220	0.190	0.200	0.140
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.6	3.0	2.7	2.1	1.3	1.5	N/A	1.1	2.2	1.9	2.0	1.4

Licensee Comments: none

Drill/Exercise Performance



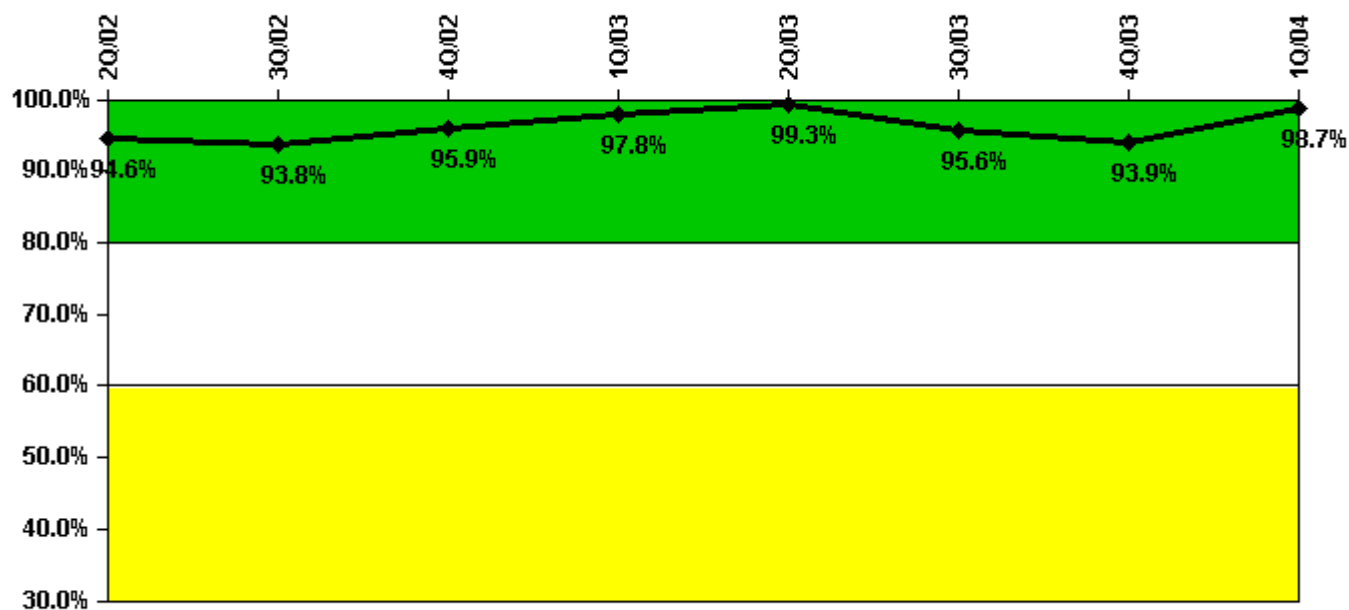
Thresholds: White < 90.0% Yellow < 70.0%

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



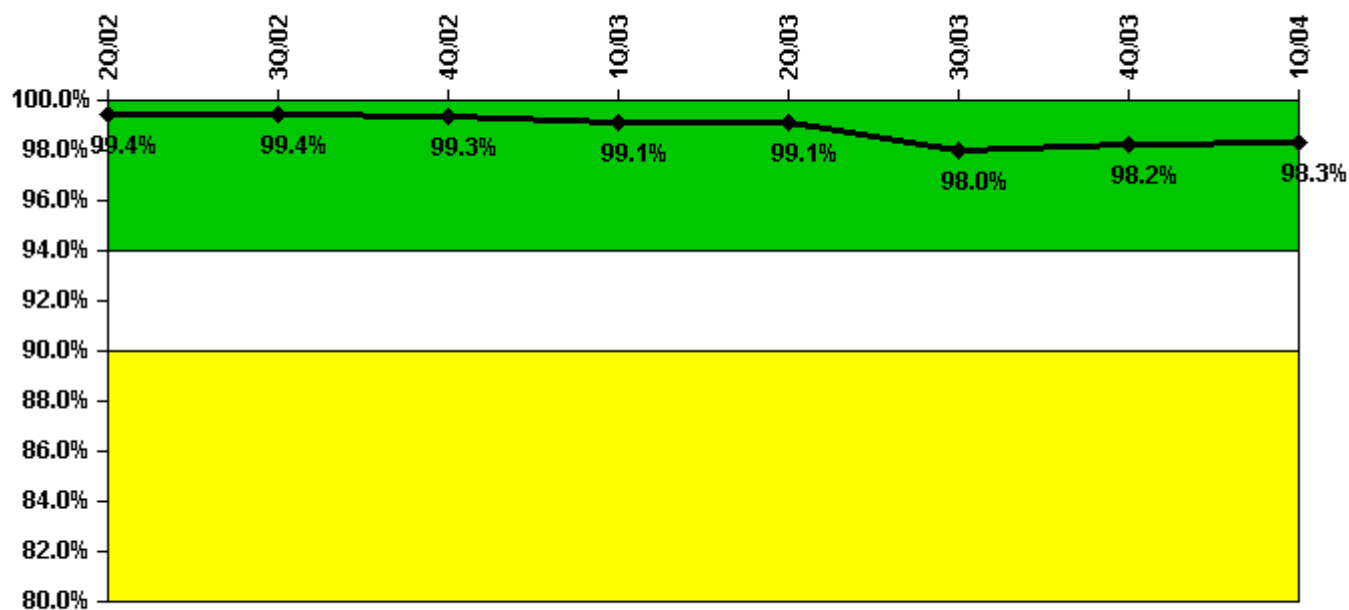
Thresholds: White < 80.0% Yellow < 60.0%

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



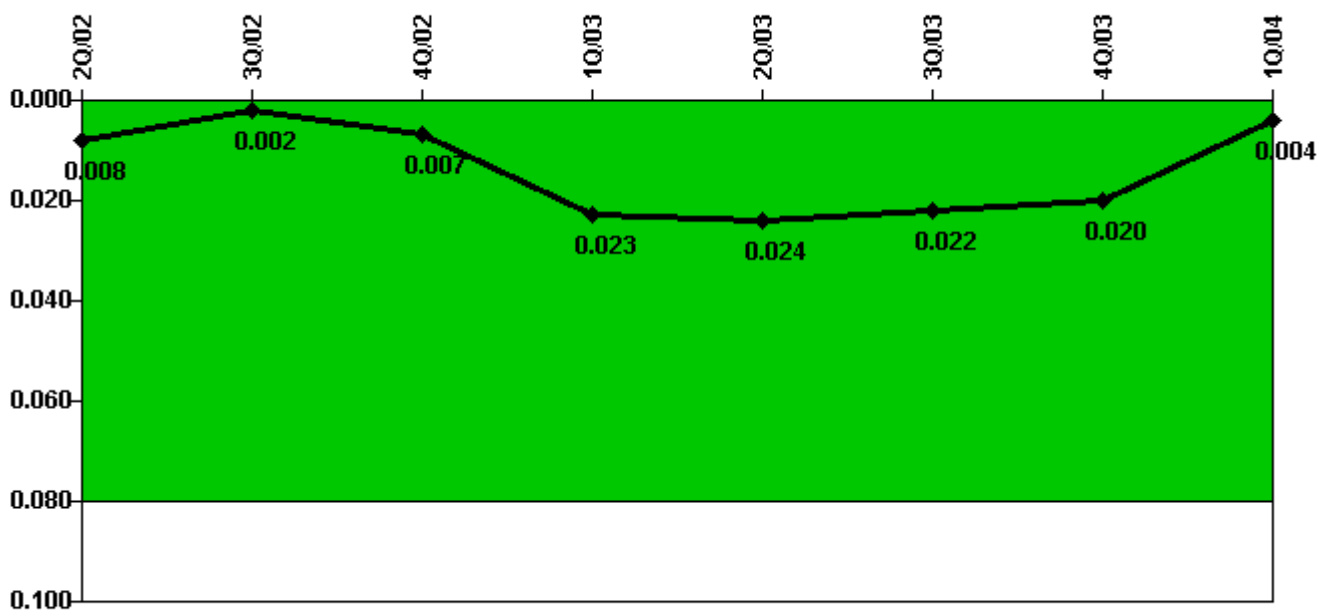
Thresholds: White > 1.0 Yellow > 3.0

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



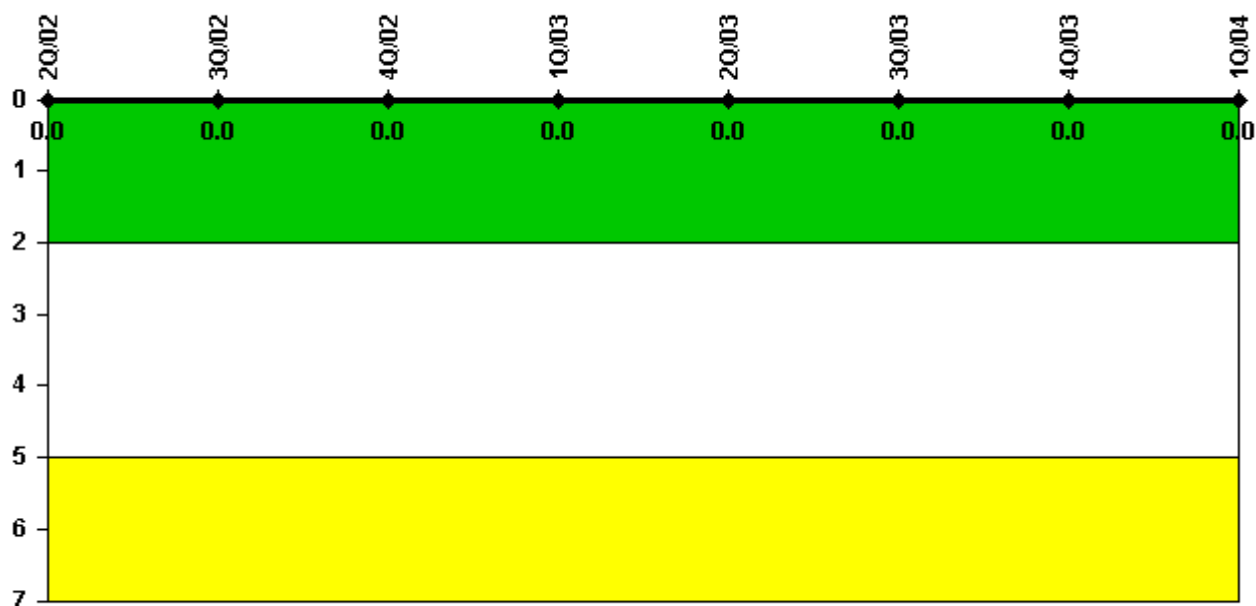
Thresholds: White > 0.080

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](#)

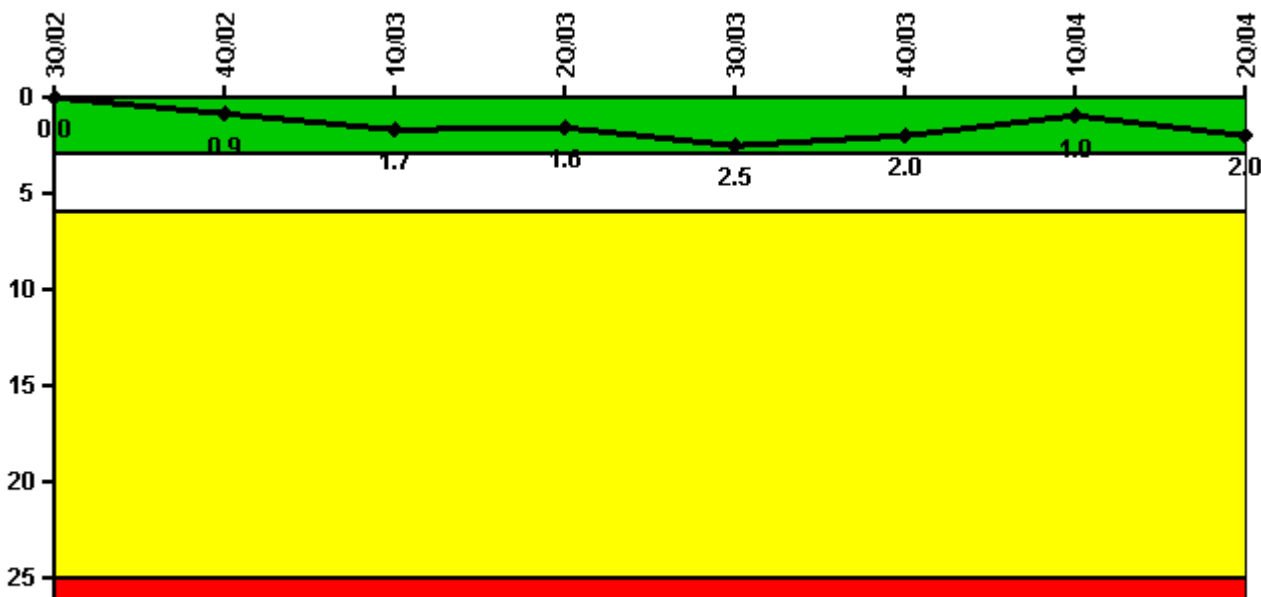
Last Modified: April 22, 2004

Surry 2

2Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



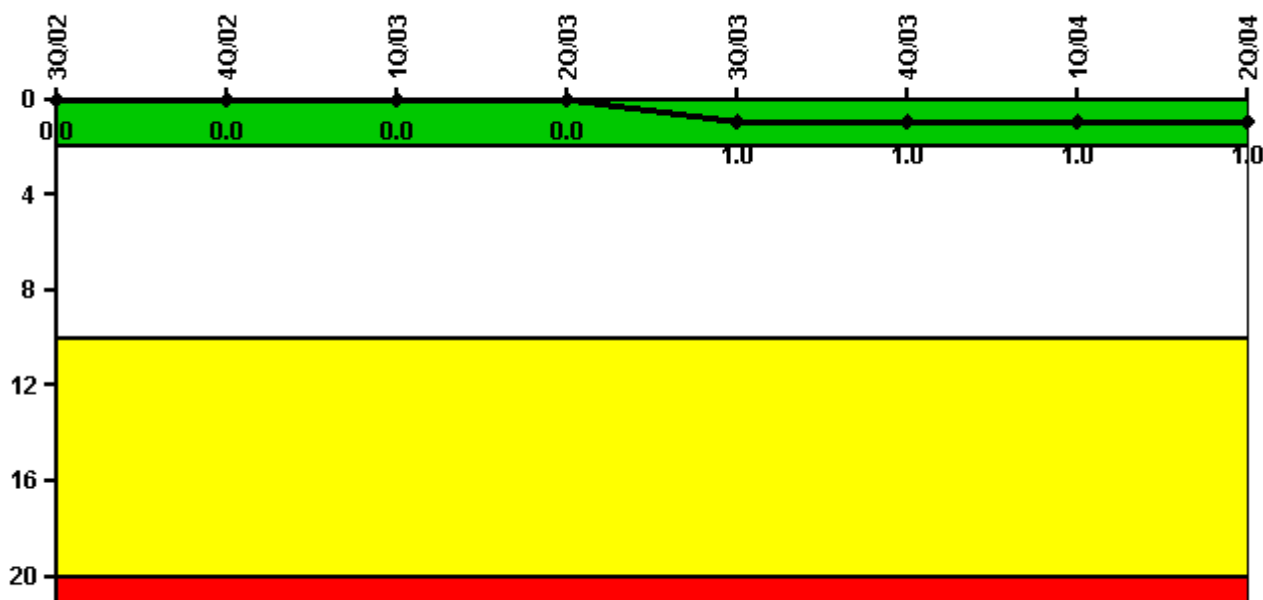
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned scrams	0	1.0	1.0	0	1.0	0	0	1.0
Critical hours	2208.0	2172.7	2097.1	2183.0	1913.5	885.3	2184.0	2028.5
Indicator value	0	0.9	1.7	1.6	2.5	2.0	1.0	2.0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



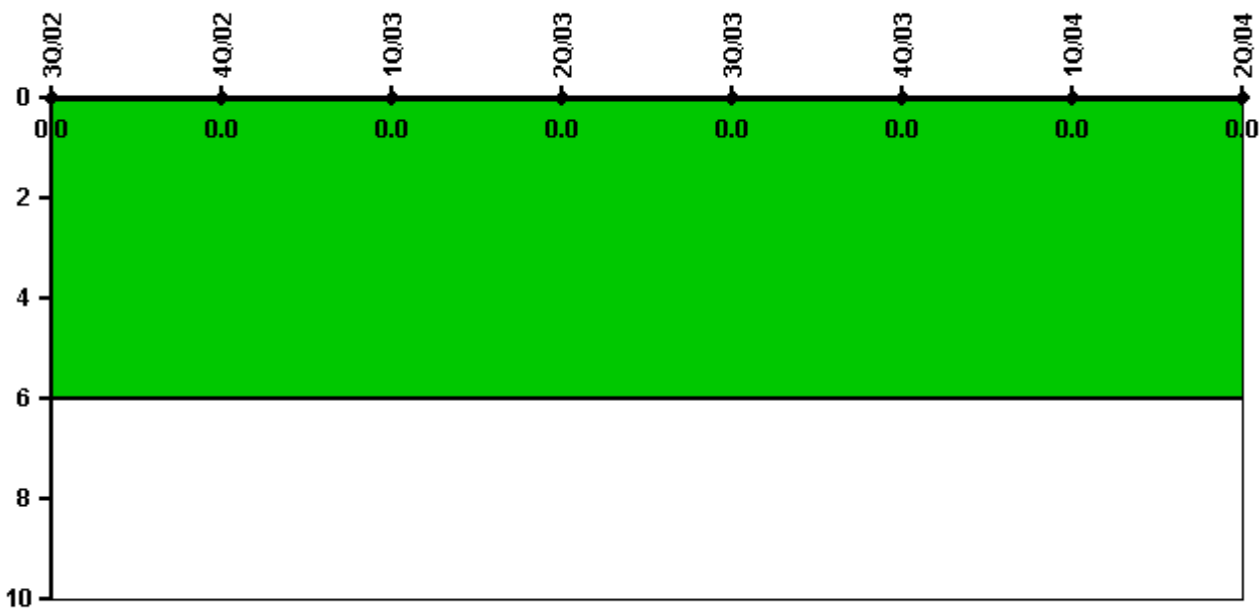
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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



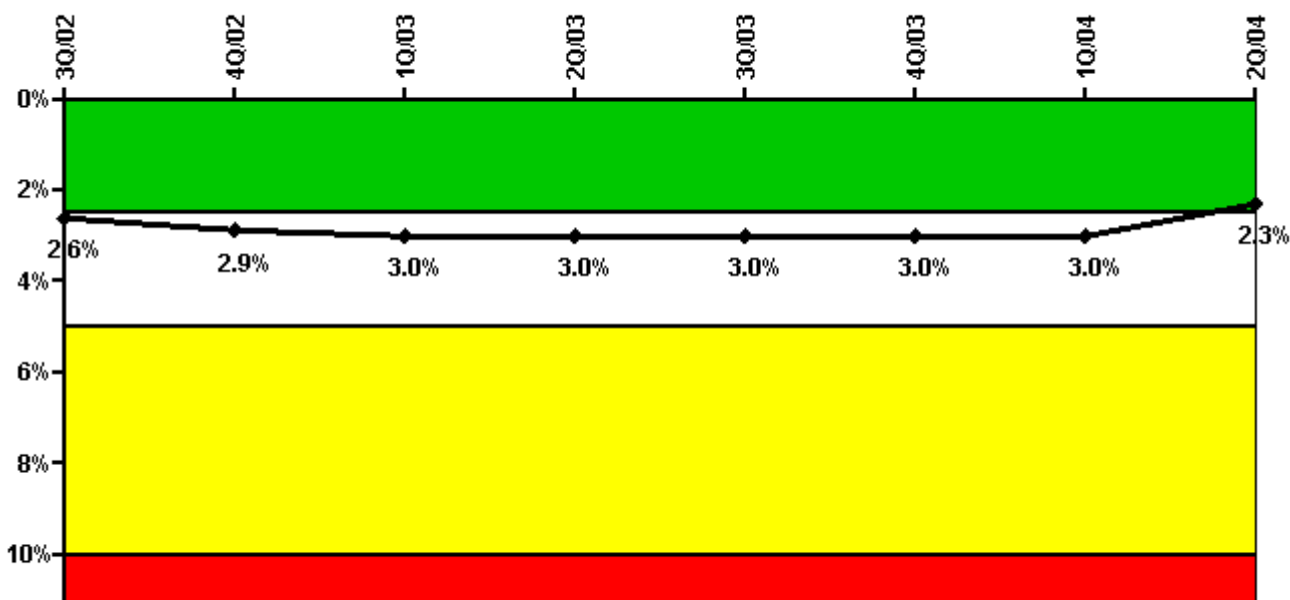
Thresholds: White > 6.0

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	0	0	0	0	0	0	0	0
Critical hours	2208.0	2172.7	2097.1	2183.0	1913.5	885.3	2184.0	2028.5
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



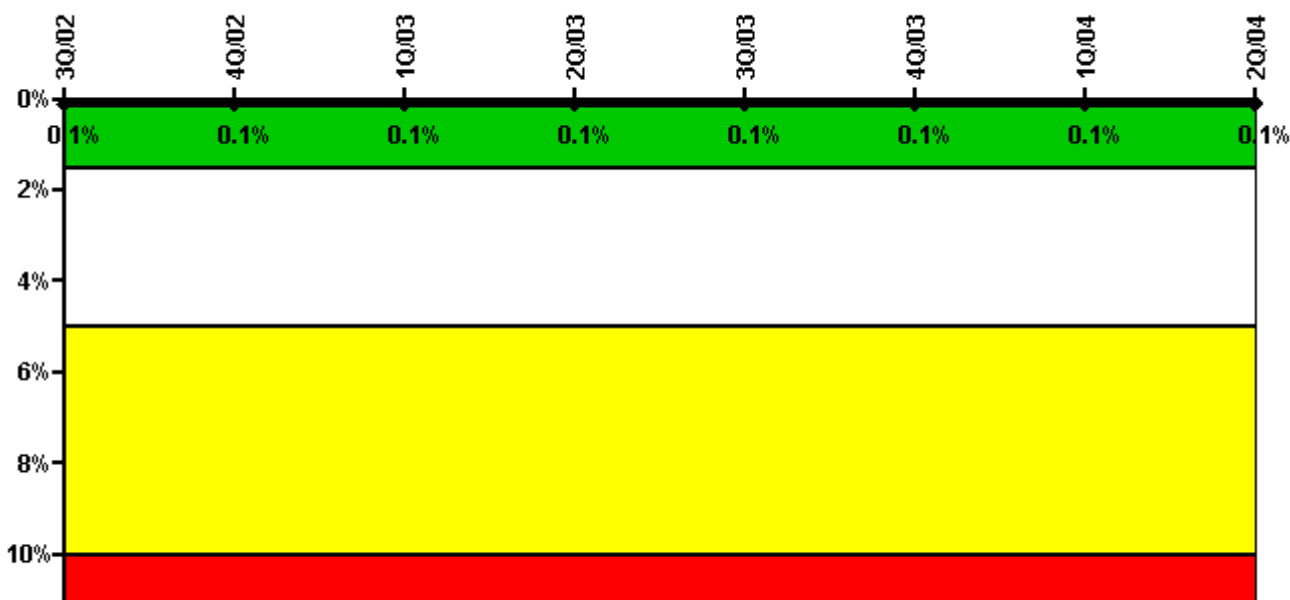
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	20.43	11.90	29.87	9.27	90.55	6.87	17.66	14.02
Unplanned unavailable hours	0	0	0	1.90	16.23	0	1.38	2.67
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	336.03	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1952.88	1215.90	2184.00	2112.92
Train 2								
Planned unavailable hours	22.58	138.18	14.73	62.79	13.16	8.92	21.35	18.77
Unplanned unavailable hours	9.50	85.35	18.17	38.62	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	2160.00	2183.00	1952.88	1215.90	2184.00	2112.92
Indicator value	2.6%	2.9%	3.0%	3.0%	3.0%	3.0%	3.0%	2.3%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



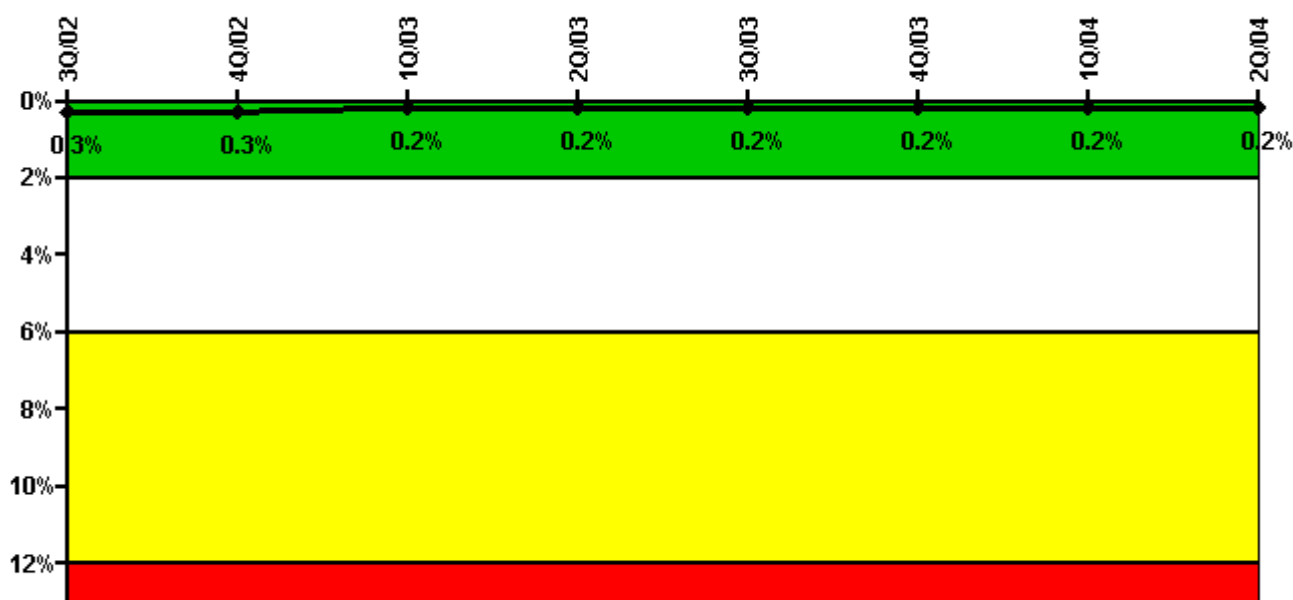
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	1.84	0	0	4.96	0	6.35	1.38
Unplanned unavailable hours	0	0	0	0	0	0	0.80	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1953.00	896.00	2184.00	2029.00
Train 2								
Planned unavailable hours	3.46	12.16	1.05	1.30	2.30	0	2.71	3.04
Unplanned unavailable hours	0	0	0	0	0	0	0	0
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	1953.00	896.00	2184.00	2029.00
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)



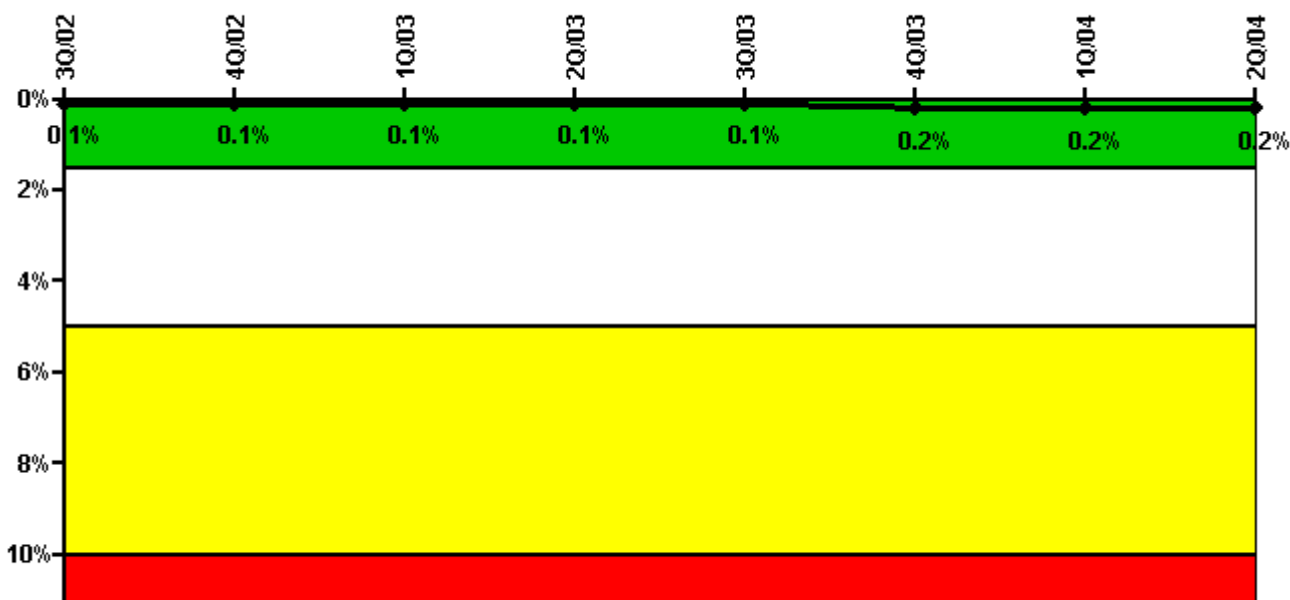
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	0.68	1.60	9.56	0.77	0.80	9.15	0.73	0
Unplanned unavailable hours	0	0	0	0	0	0	0	3.52
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	1953.00	896.00	2184.00	2113.00
Train 2								
Planned unavailable hours	0.95	0.82	0.98	5.58	2.15	0	10.00	2.30
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	1953.00	896.00	2184.00	2113.00
Train 3								
Planned unavailable hours	1.20	1.80	2.32	16.93	2.16	0.90	1.88	2.15
Unplanned unavailable hours	0	0	0	0	0	0	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	2208.00	2209.00	2160.00	2183.00	1953.00	680.00	2184.00	2041.70
Indicator value	0.3%	0.3%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

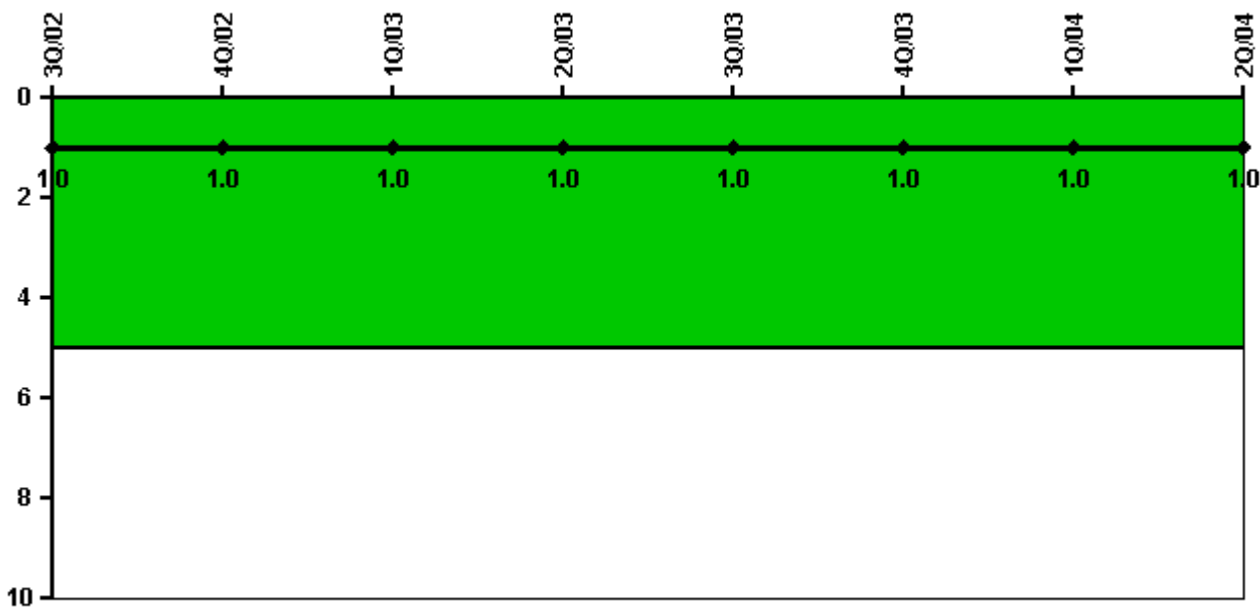


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	0.83	5.79	0.05	0.70	0.33	19.70	9.19	0.15
Unplanned unavailable hours	0	0.25	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2097.00	2183.00	1953.00	1439.00	2184.00	2029.00
Train 2								
Planned unavailable hours	0.88	23.45	1.11	1.20	0.33	19.70	15.25	13.79
Unplanned unavailable hours	0	0	0	0	0.50	0	22.77	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2097.00	2183.00	1953.00	1439.00	2184.00	2029.00
Train 3								
Planned unavailable hours	0	0	0	0	11.60	20.10	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	2097.00	2183.00	2208.00	1687.00	2184.00	2183.00
Train 4								
Planned unavailable hours	0	0	0	0	10.70	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	2097.00	2183.00	2208.00	1687.00	2184.00	2183.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%

Safety System Functional Failures (PWR)



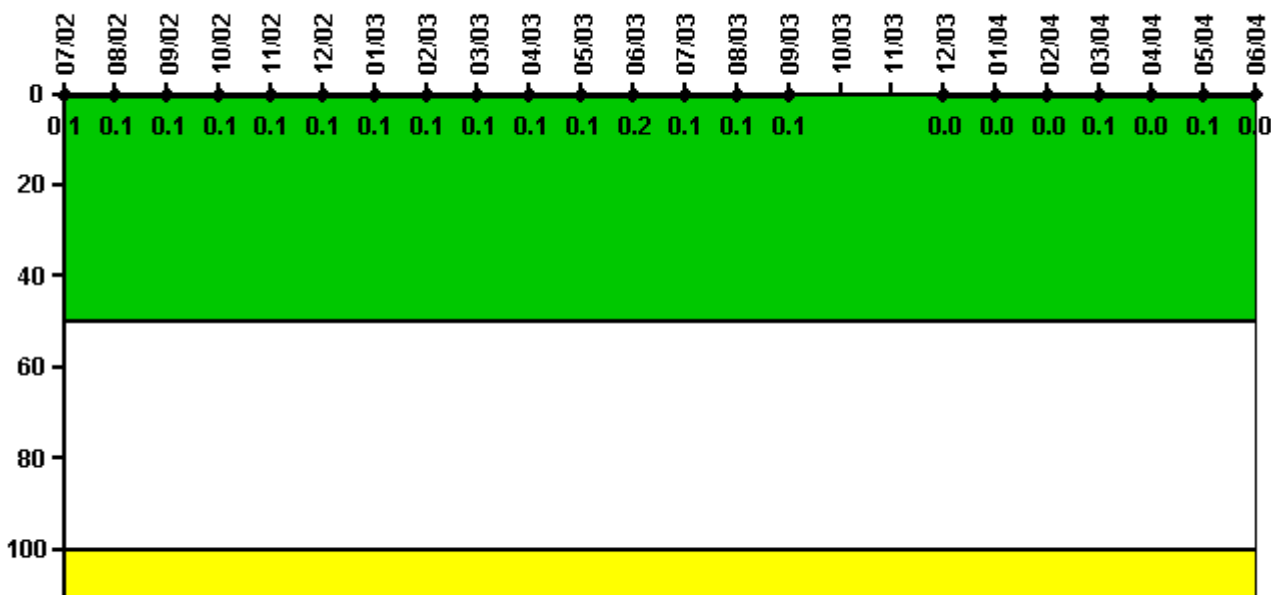
Thresholds: White > 5.0

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

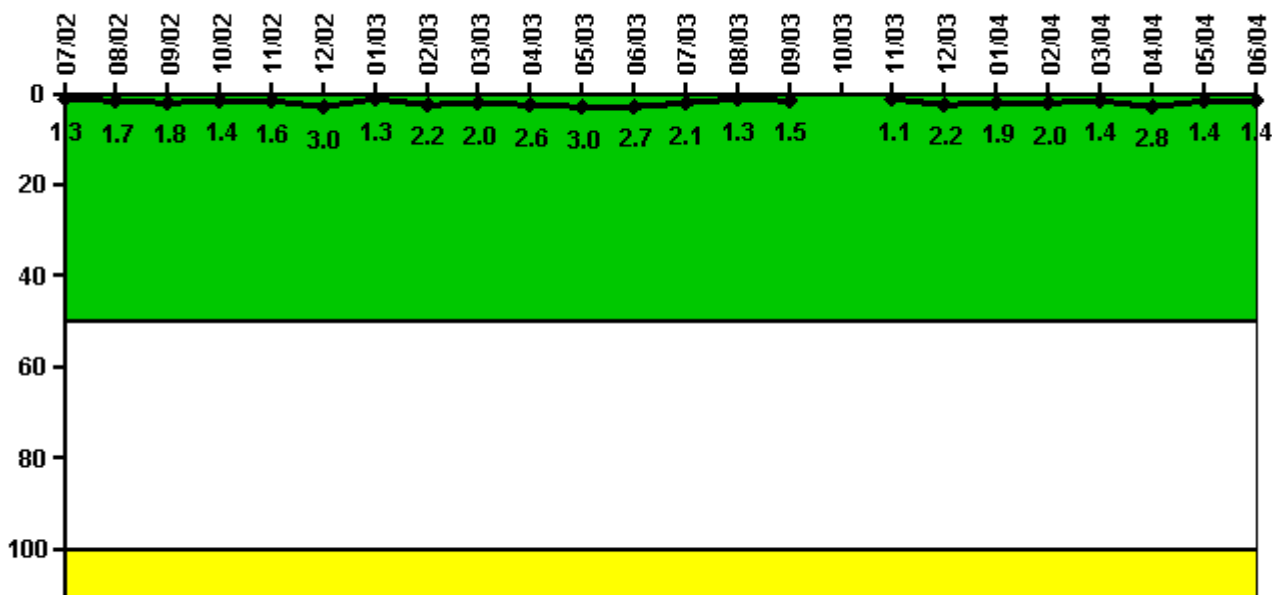
Notes

Reactor Coolant System Activity	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	0.000748	0.000720	0.000722	0.000729	0.000738	0.000758	0.000768	0.000753	0.000760	0.000903	0.001010	0.001870
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2

Reactor Coolant System Activity	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum activity	0.000857	0.000853	0.001030	N/A	N/A	0.000318	0.000338	0.000316	0.000544	0.000345	0.000532	0.000437
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	N/A	N/A	0	0	0	0.1	0	0.1	0

Licensee Comments: none

Reactor Coolant System Leakage



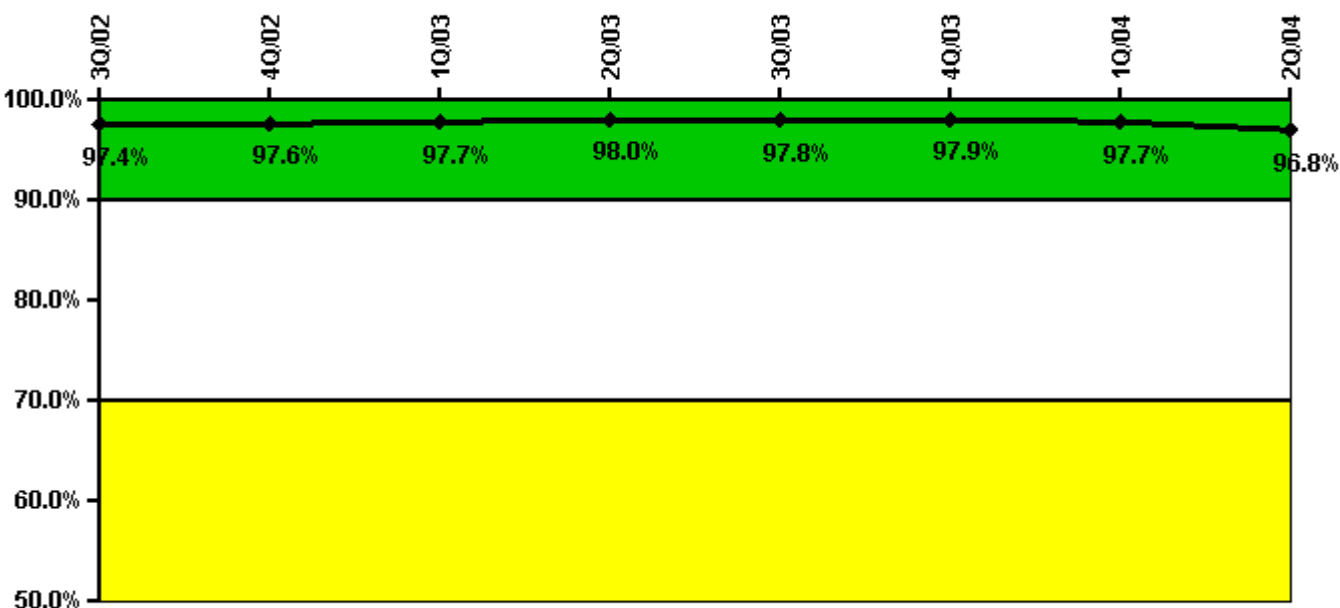
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum leakage	0.130	0.170	0.180	0.140	0.160	0.300	0.130	0.220	0.200	0.260	0.300	0.270
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.7	1.8	1.4	1.6	3.0	1.3	2.2	2.0	2.6	3.0	2.7
Reactor Coolant System Leakage	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum leakage	0.210	0.130	0.150	N/A	0.110	0.220	0.190	0.200	0.140	0.280	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	2.1	1.3	1.5	N/A	1.1	2.2	1.9	2.0	1.4	2.8	1.4	1.4

Licensee Comments: none

Drill/Exercise Performance



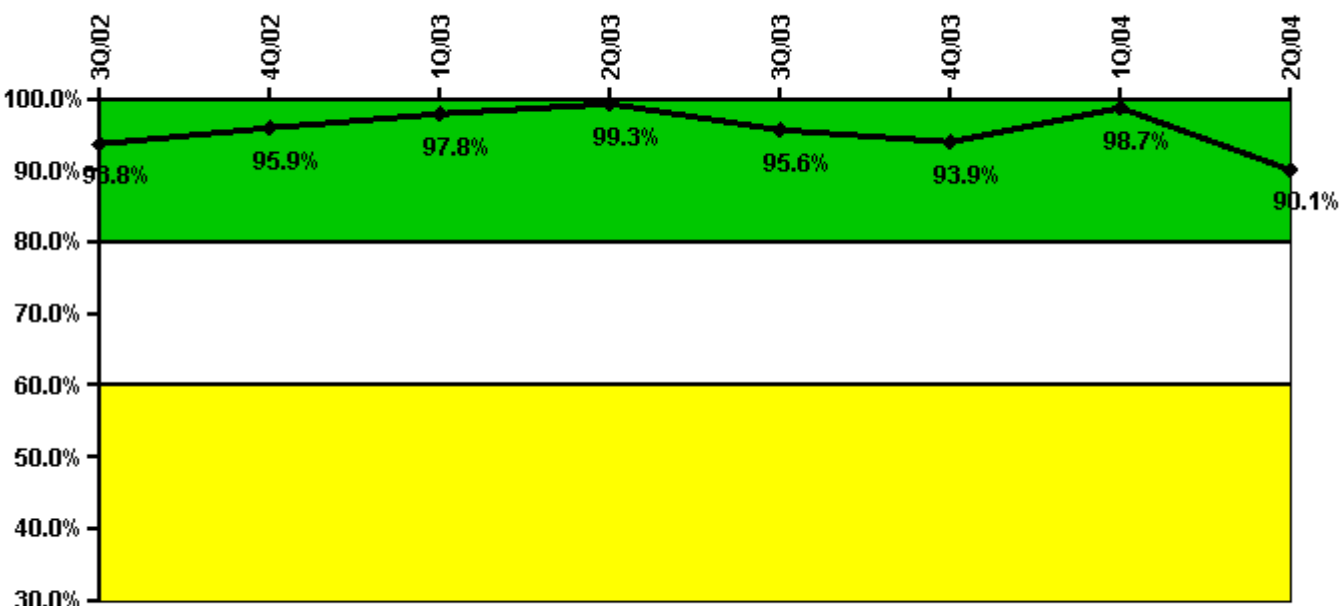
Thresholds: White < 90.0% Yellow < 70.0%

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



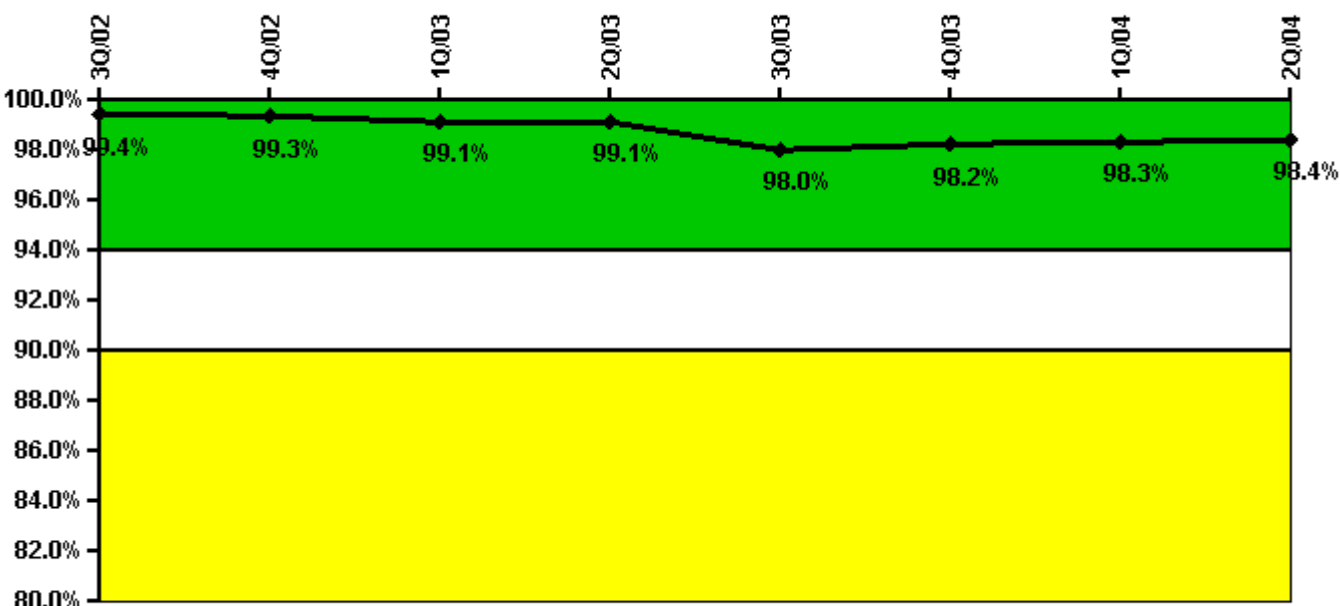
Thresholds: White < 80.0% Yellow < 60.0%

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



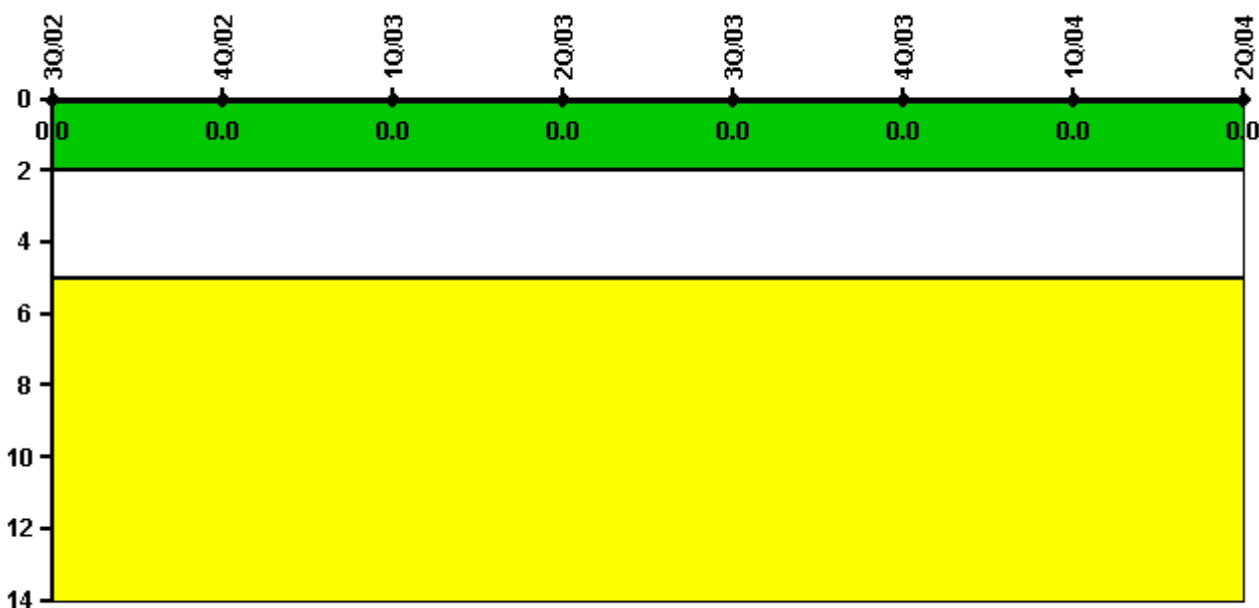
Thresholds: White < 94.0% Yellow < 90.0%

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



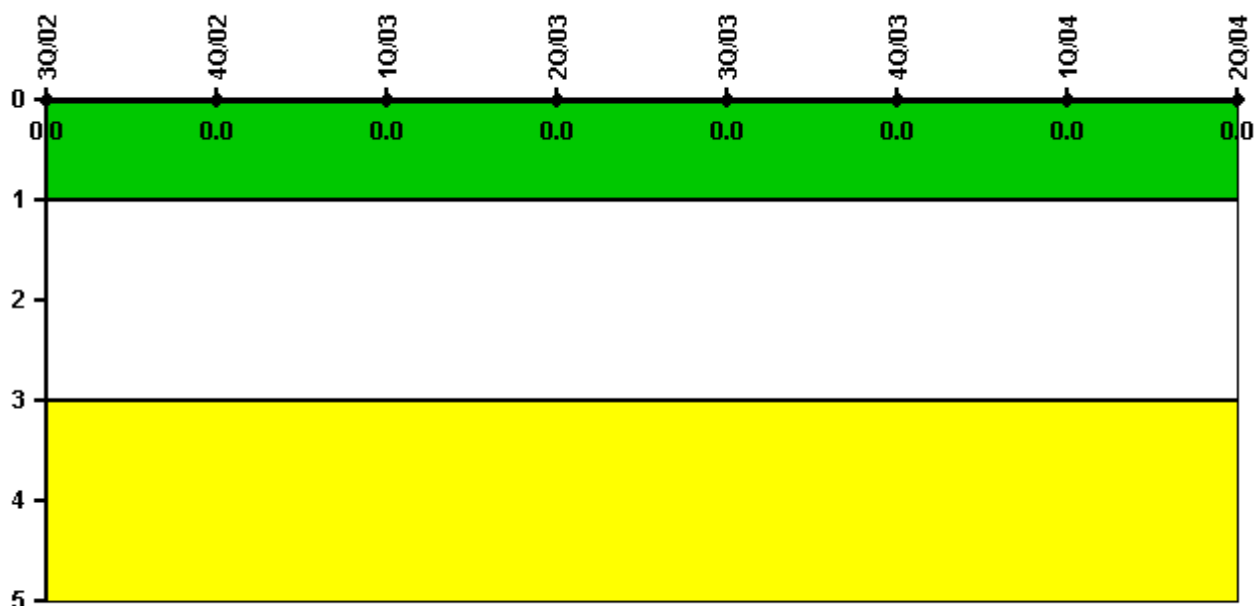
Thresholds: White > 2.0 Yellow > 5.0

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](#)

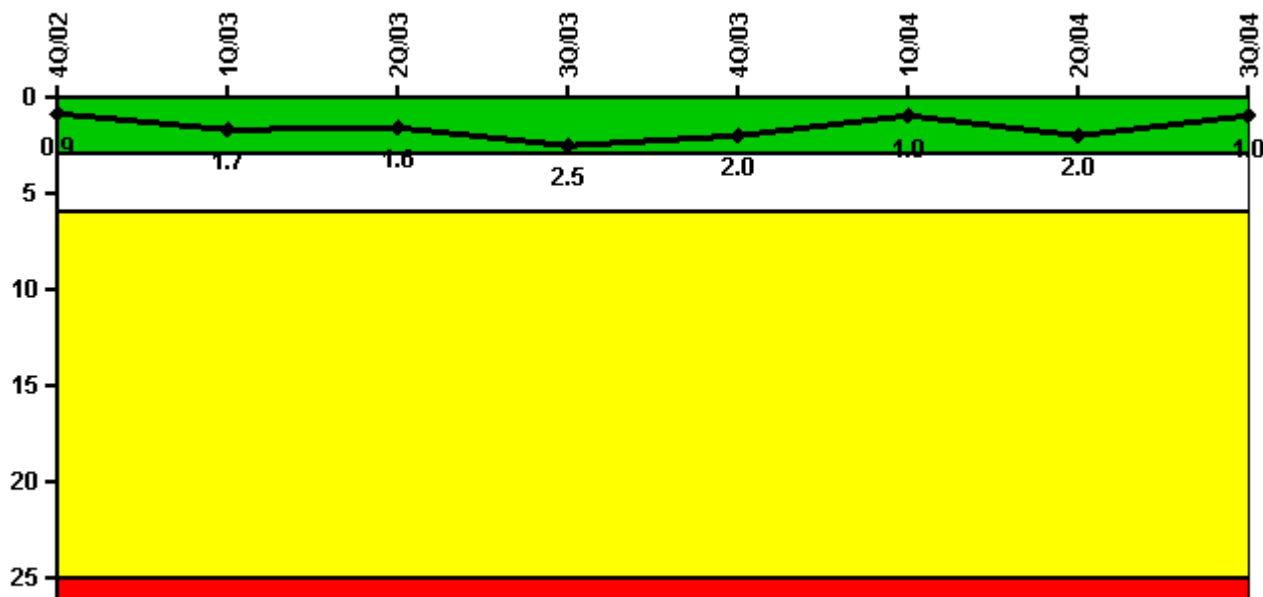
Last Modified: September 8, 2004

Surry 2

3Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



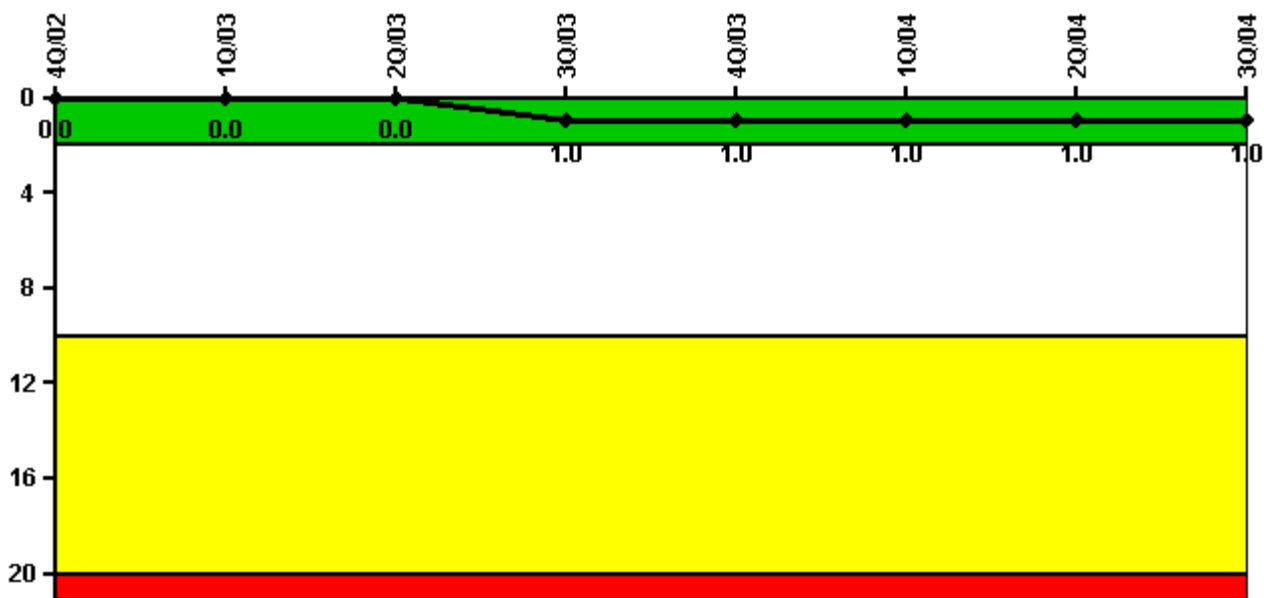
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned scrams	1.0	1.0	0	1.0	0	0	1.0	0
Critical hours	2172.7	2097.1	2183.0	1913.5	885.3	2184.0	2028.5	2208.0
Indicator value	0.9	1.7	1.6	2.5	2.0	1.0	2.0	1.0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



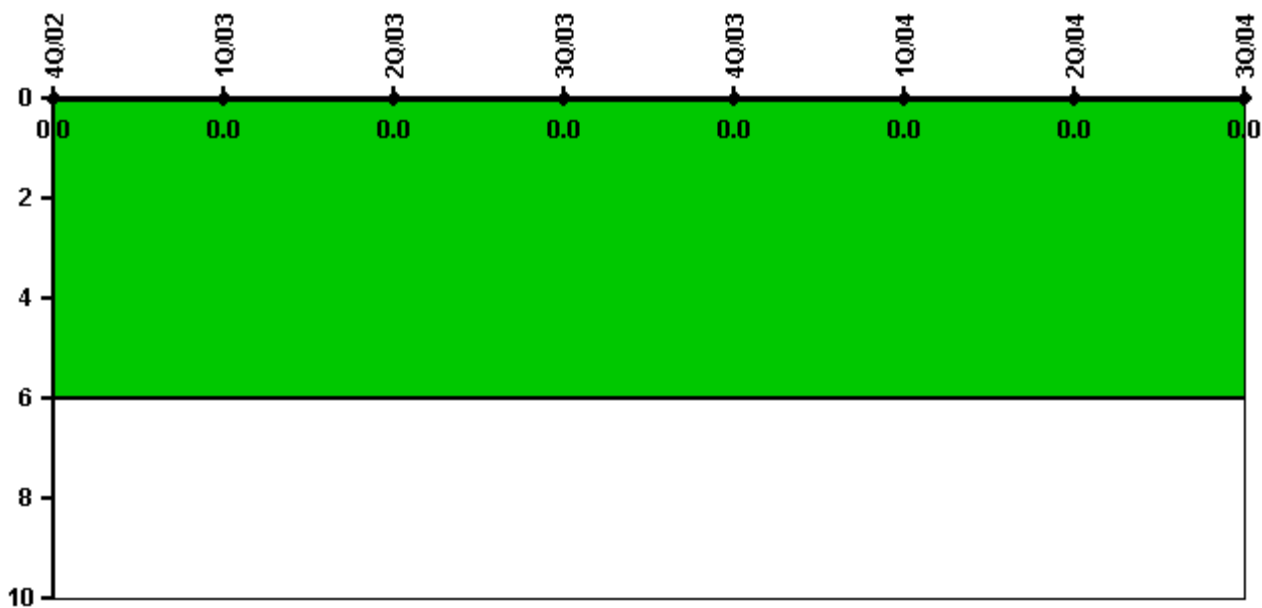
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/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



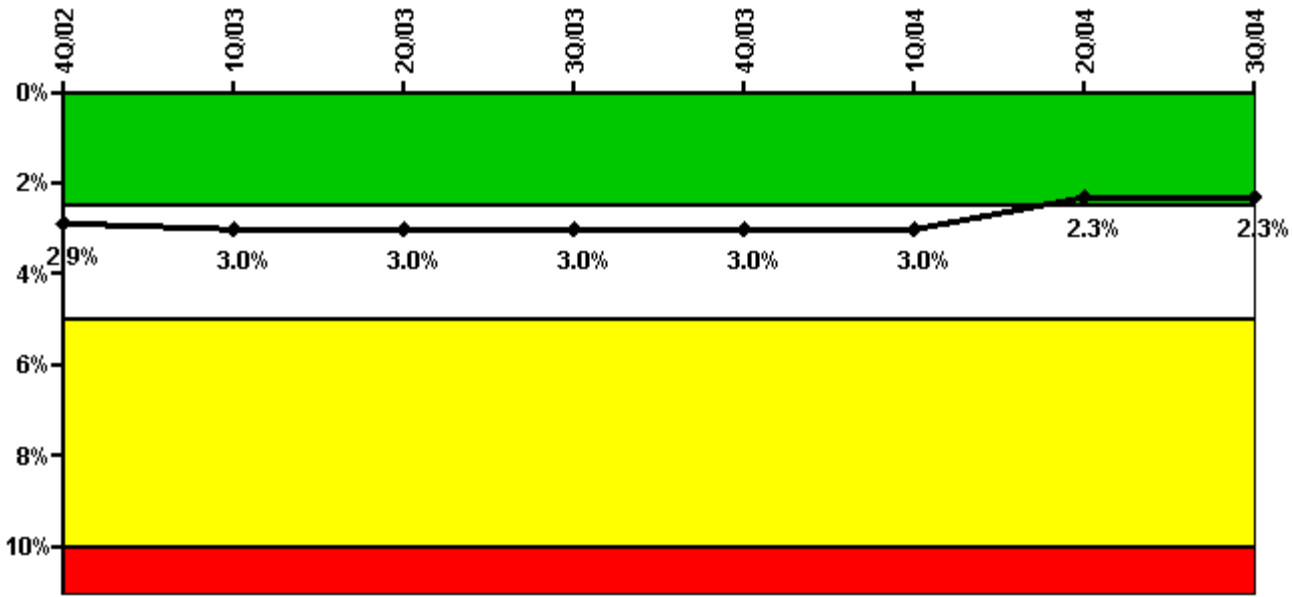
Thresholds: White > 6.0

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	0	0	0
Critical hours	2172.7	2097.1	2183.0	1913.5	885.3	2184.0	2028.5	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



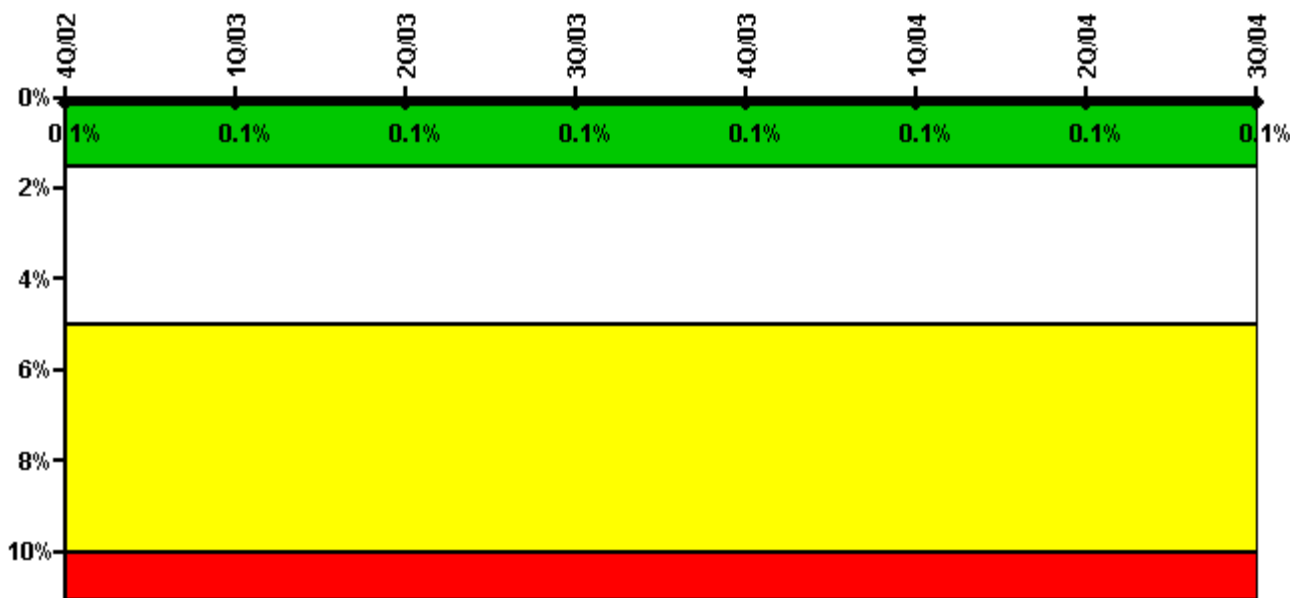
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	11.90	29.87	9.27	90.55	6.87	17.66	14.02	20.96
Unplanned unavailable hours	0	0	1.90	16.23	0	1.38	2.67	18.87
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1952.88	1215.90	2184.00	2112.92	2208.00
Train 2								
Planned unavailable hours	138.18	14.73	62.79	13.16	8.92	21.35	18.77	21.80
Unplanned unavailable hours	85.35	18.17	38.62	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	2160.00	2183.00	1952.88	1215.90	2184.00	2112.92	2208.00
Indicator value	2.9%	3.0%	3.0%	3.0%	3.0%	3.0%	2.3%	2.3%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



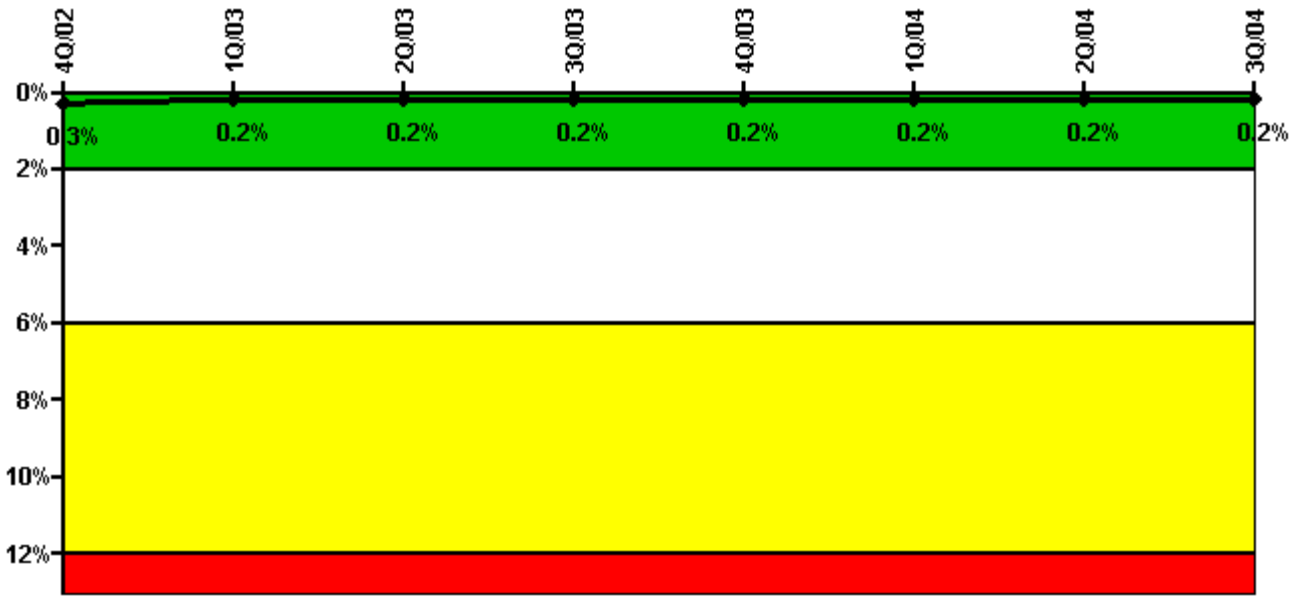
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	1.84	0	0	4.96	0	6.35	1.38	1.20
Unplanned unavailable hours	0	0	0	0	0	0.80	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1953.00	896.00	2184.00	2029.00	2208.00
Train 2								
Planned unavailable hours	12.16	1.05	1.30	2.30	0	2.71	3.04	6.96
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1953.00	896.00	2184.00	2029.00	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%

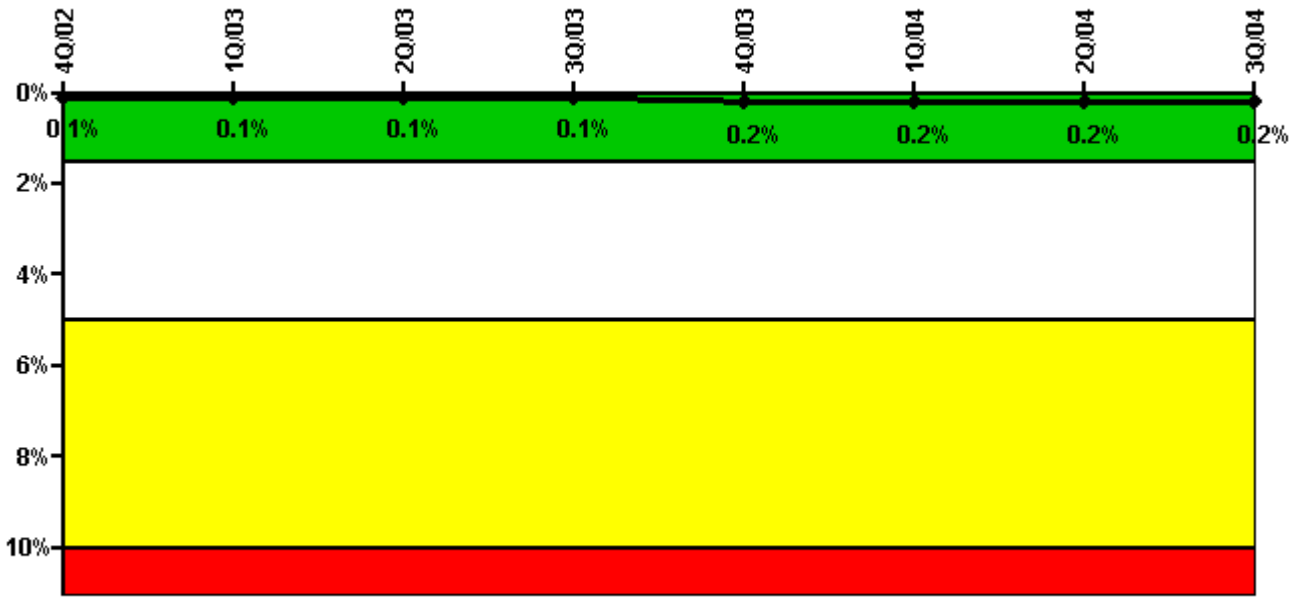
Notes

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	1.60	9.56	0.77	0.80	9.15	0.73	0	1.33
Unplanned unavailable hours	0	0	0	0	0	0	3.52	0
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	1953.00	896.00	2184.00	2113.00	2208.00
Train 2								
Planned unavailable hours	0.82	0.98	5.58	2.15	0	10.00	2.15	1.07
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	2209.00	2160.00	2183.00	1953.00	896.00	2184.00	2113.00	2208.00
Train 3								
Planned unavailable hours	1.80	2.32	16.93	2.16	0.90	1.88	5.07	17.37
Unplanned unavailable hours	0	0	0	0	0	0	8.82	0
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	1953.00	680.00	2184.00	2041.70	2208.00
Indicator value	0.3%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%

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



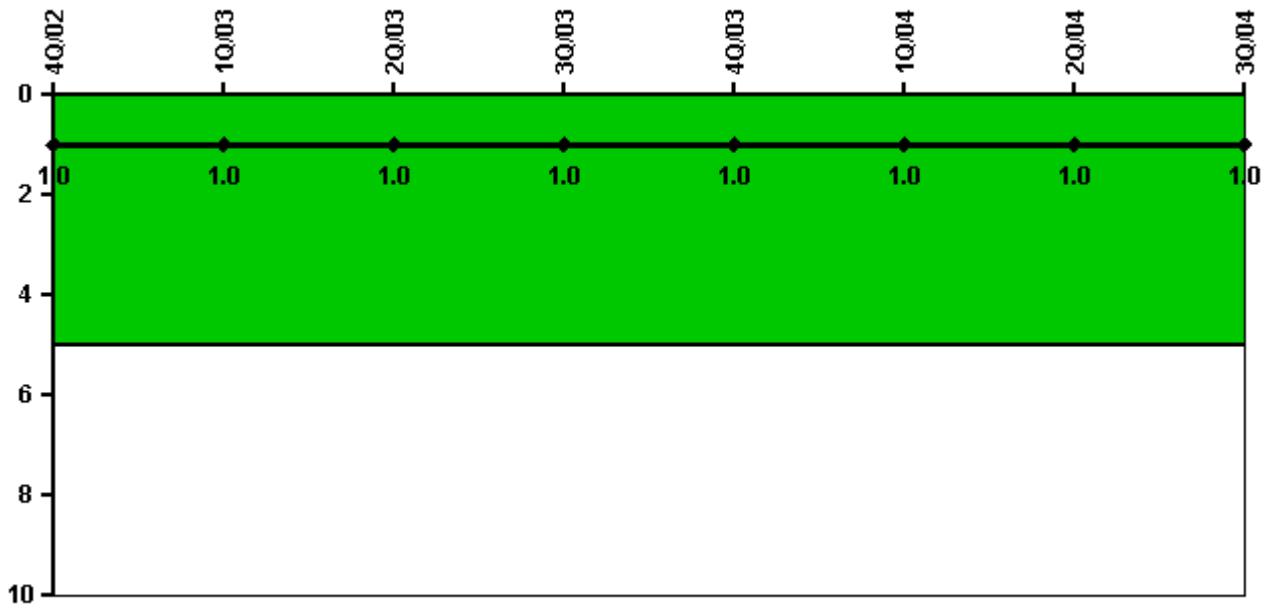
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	5.79	0.05	0.70	0.33	19.70	9.19	0.15	14.68
Unplanned unavailable hours	0.25	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2097.00	2183.00	1953.00	1439.00	2184.00	2029.00	2208.00
Train 2								
Planned unavailable hours	23.45	1.11	1.20	0.33	19.70	15.25	13.79	0.75
Unplanned unavailable hours	0	0	0	0.50	0	22.77	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2097.00	2183.00	1953.00	1439.00	2184.00	2029.00	2208.00
Train 3								
Planned unavailable hours	0	0	0	11.60	20.10	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	2097.00	2183.00	2208.00	1687.00	2184.00	2183.00	2208.00
Train 4								
Planned unavailable hours	0	0	0	10.70	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	2097.00	2183.00	2208.00	1687.00	2184.00	2183.00	2208.00
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)



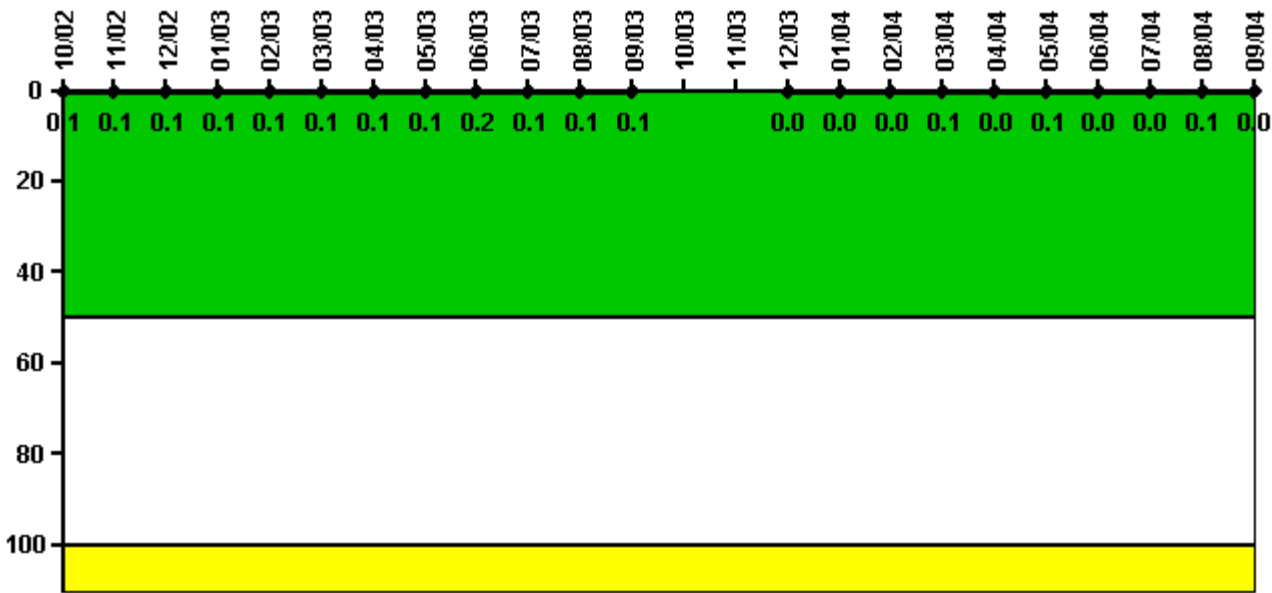
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



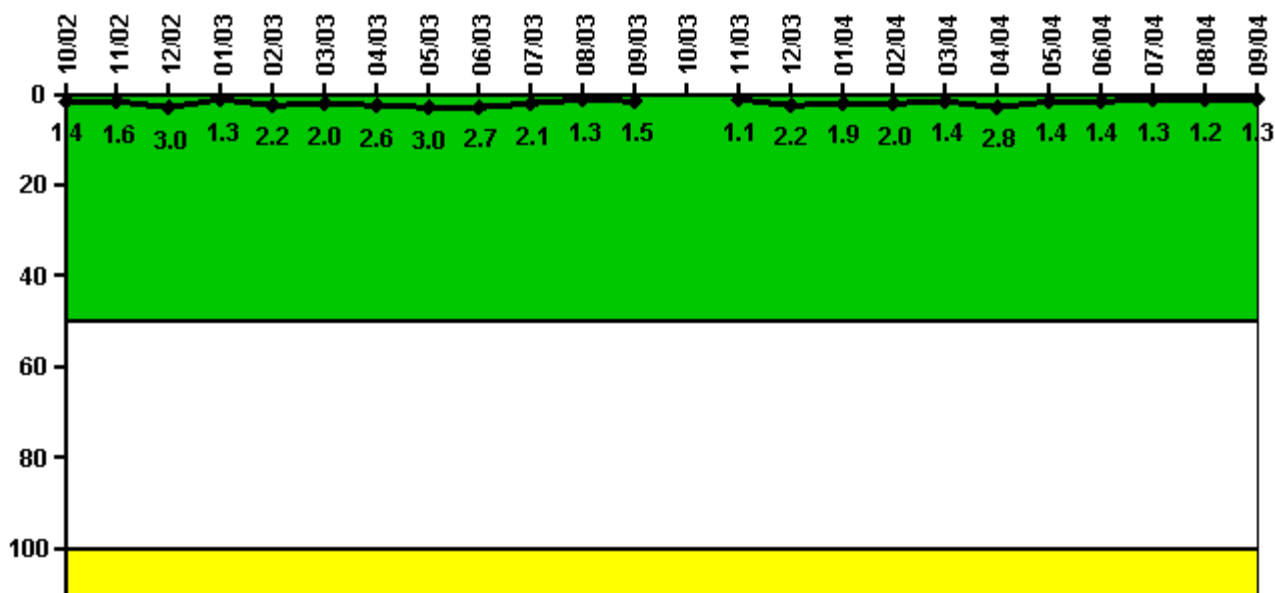
Thresholds: White > 50.0 Yellow > 100.0

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	0.000729	0.000738	0.000758	0.000768	0.000753	0.000760	0.000903	0.001010	0.001870	0.000857	0.000853	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	0.2	0.1	0.1	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	N/A	N/A	0.000318	0.000338	0.000316	0.000544	0.000345	0.000532	0.000437	0.000343	0.000807	0.000468
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	N/A	0	0	0	0.1	0	0.1	0	0	0.1	0

Licensee Comments: none

Reactor Coolant System Leakage



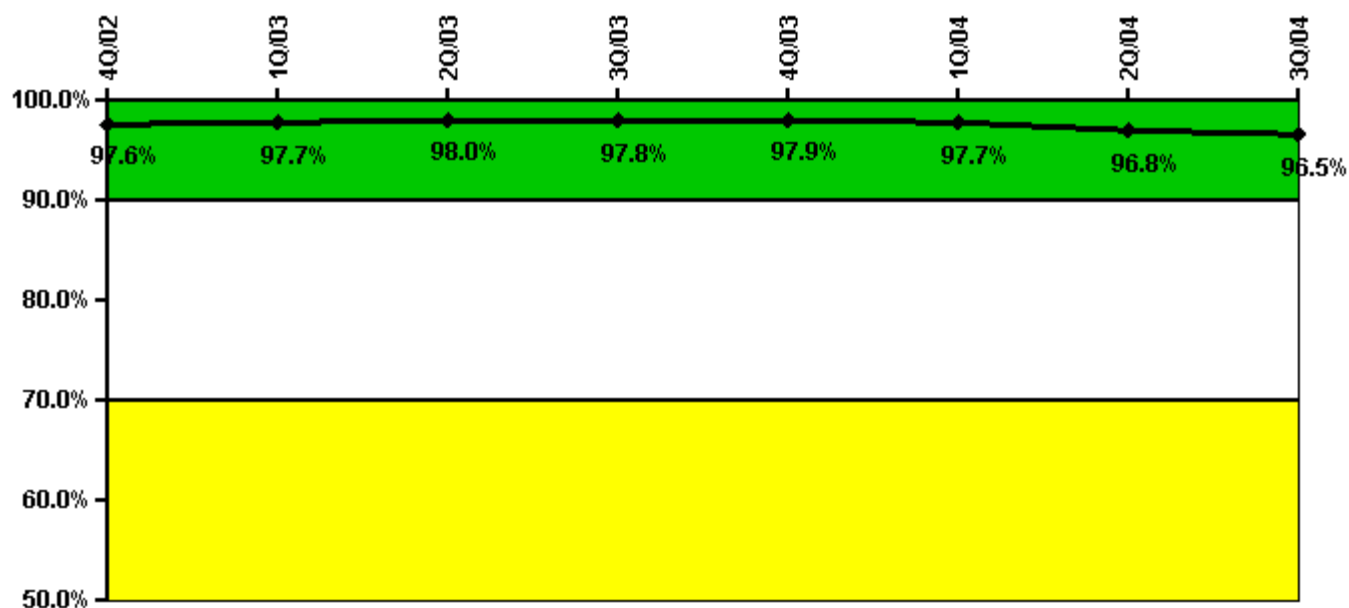
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum leakage	0.140	0.160	0.300	0.130	0.220	0.200	0.260	0.300	0.270	0.210	0.130	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	1.4	1.6	3.0	1.3	2.2	2.0	2.6	3.0	2.7	2.1	1.3	1.5
Reactor Coolant System Leakage	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	N/A	0.110	0.220	0.190	0.200	0.140	0.280	0.140	0.140	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	N/A	1.1	2.2	1.9	2.0	1.4	2.8	1.4	1.4	1.3	1.2	1.3

Licensee Comments: none

Drill/Exercise Performance



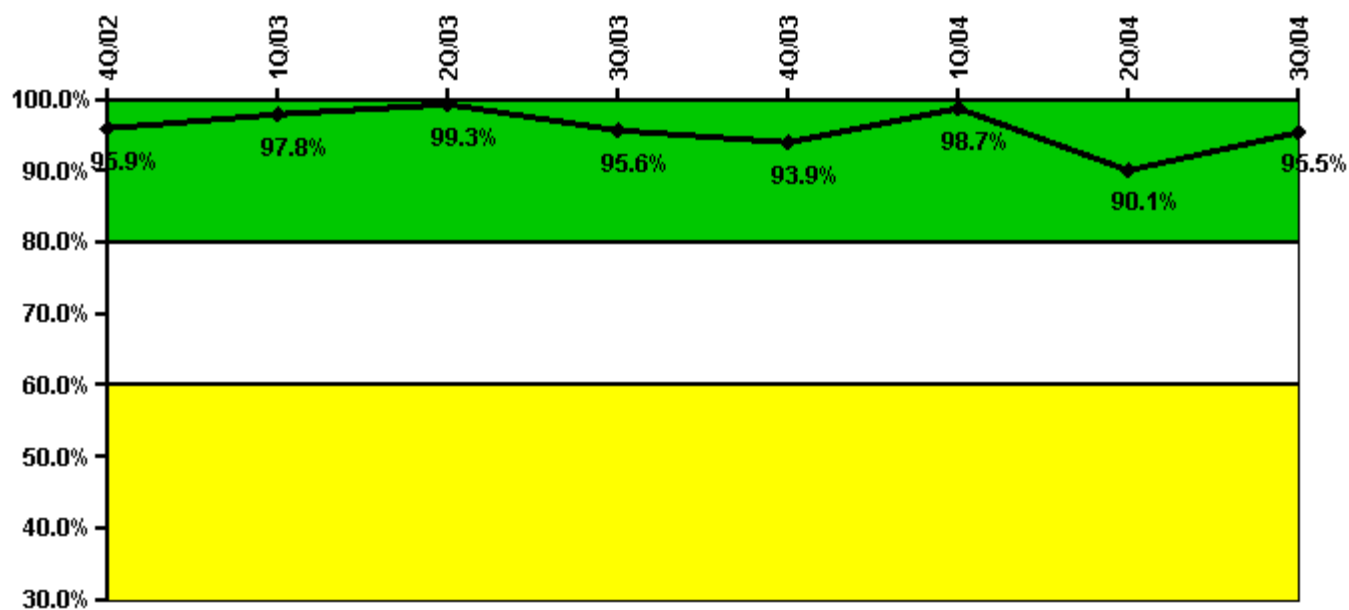
Thresholds: White < 90.0% Yellow < 70.0%

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



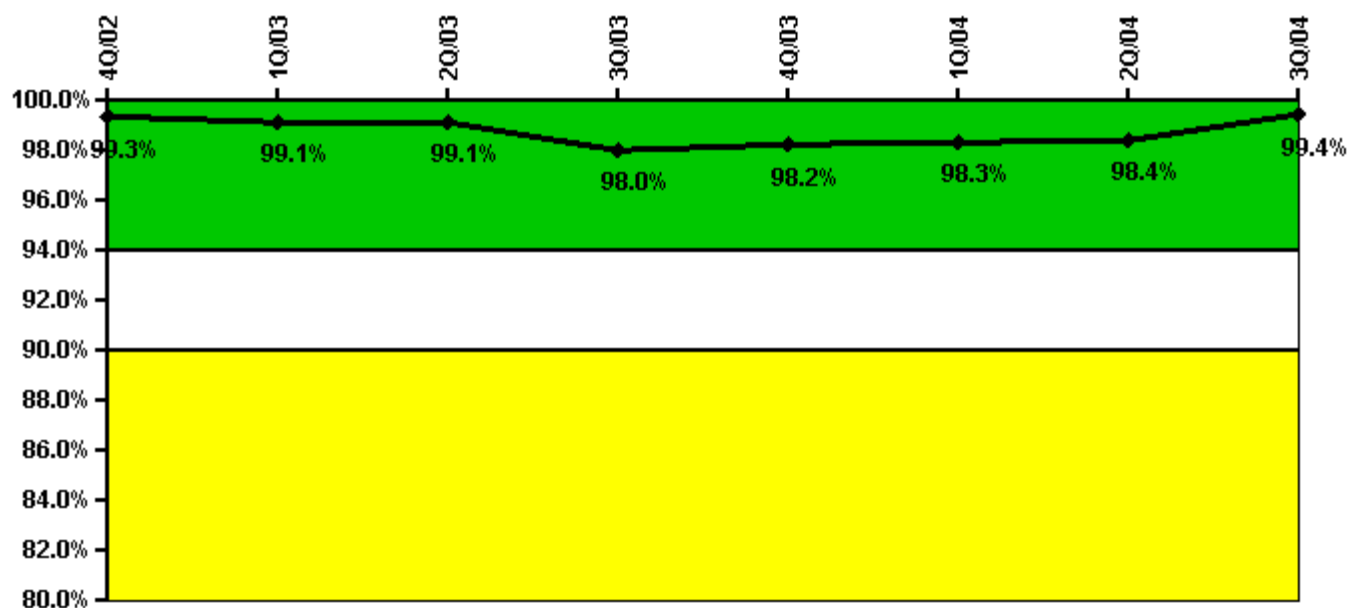
Thresholds: White < 80.0% Yellow < 60.0%

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



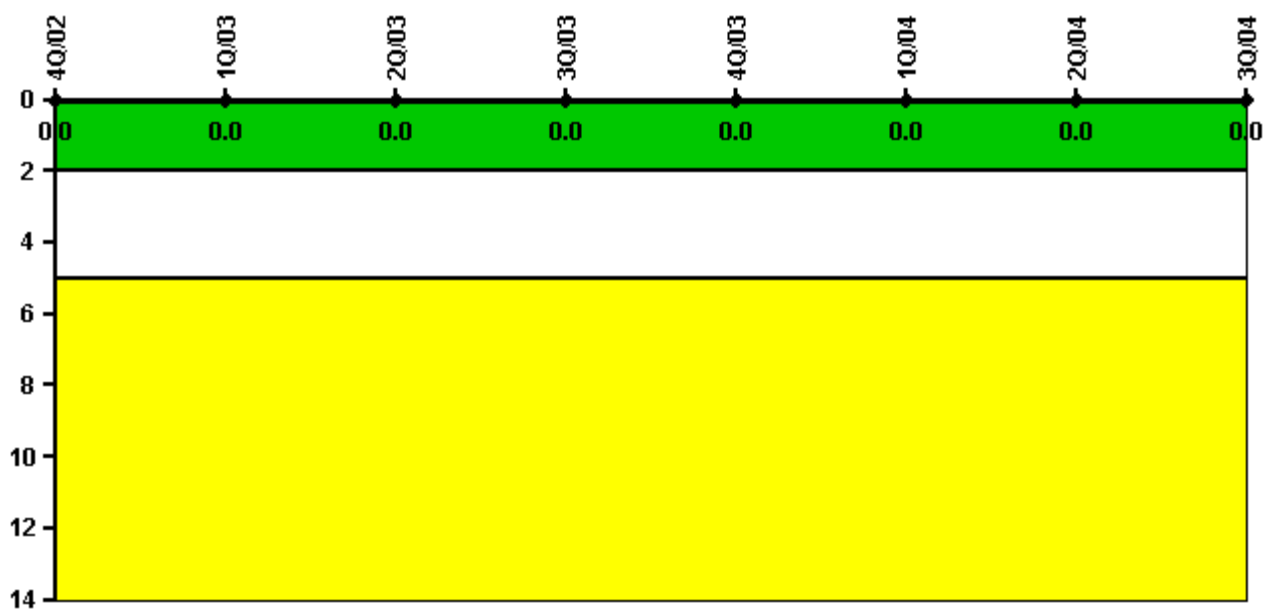
Thresholds: White < 94.0% Yellow < 90.0%

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



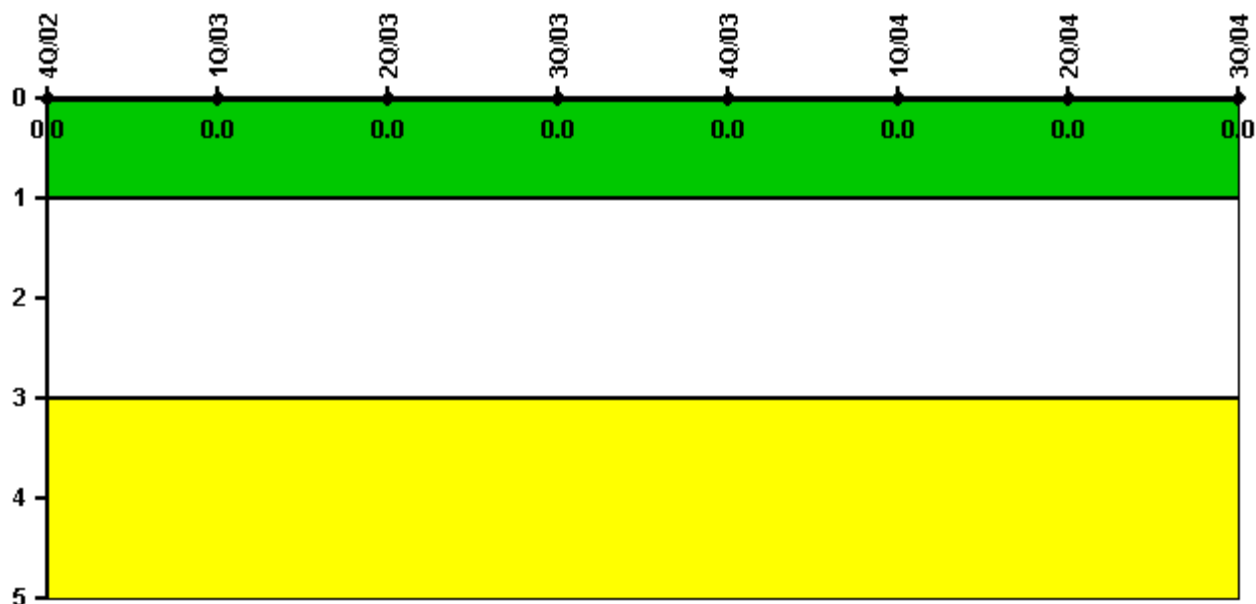
Thresholds: White > 2.0 Yellow > 5.0

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](#)

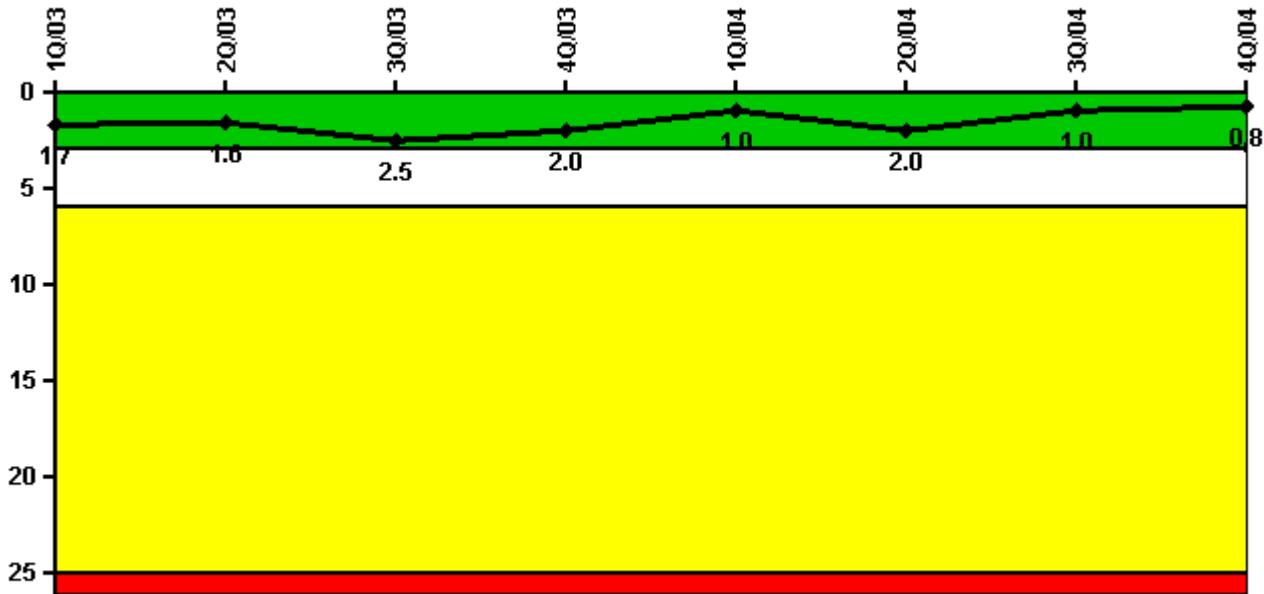
Last Modified: October 25, 2004

Surry 2

4Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned scrams	1.0	0	1.0	0	0	1.0	0	0
Critical hours	2097.1	2183.0	1913.5	885.3	2184.0	2028.5	2208.0	2209.0
Indicator value	1.7	1.6	2.5	2.0	1.0	2.0	1.0	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



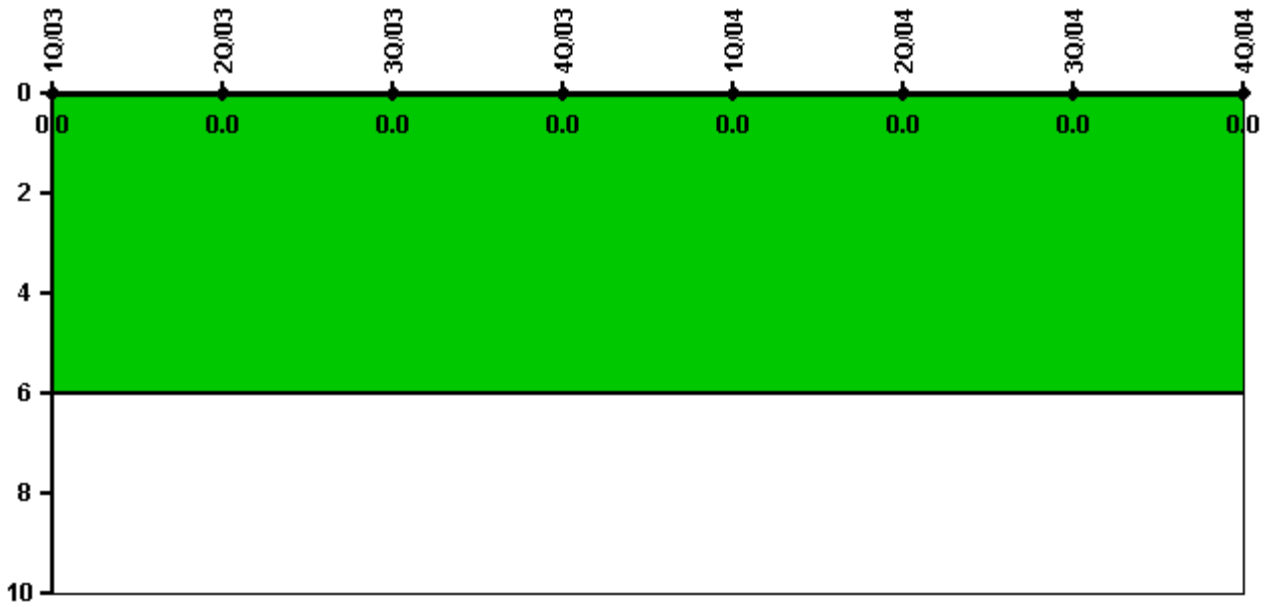
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/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



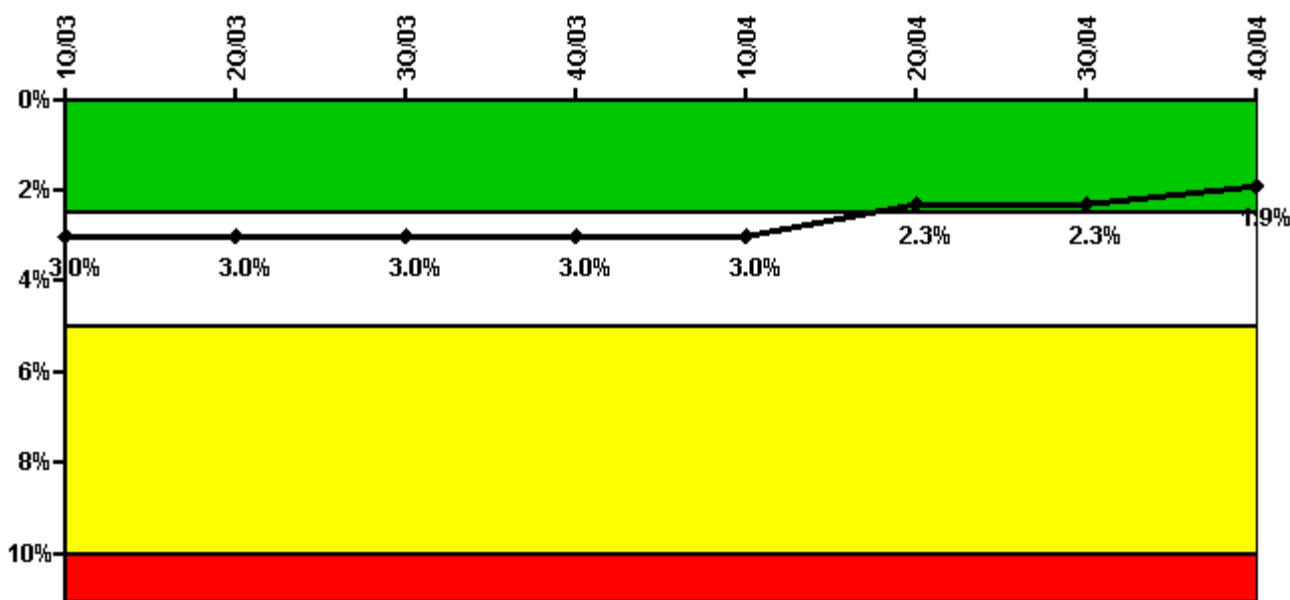
Thresholds: White > 6.0

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	0	0	0	0
Critical hours	2097.1	2183.0	1913.5	885.3	2184.0	2028.5	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



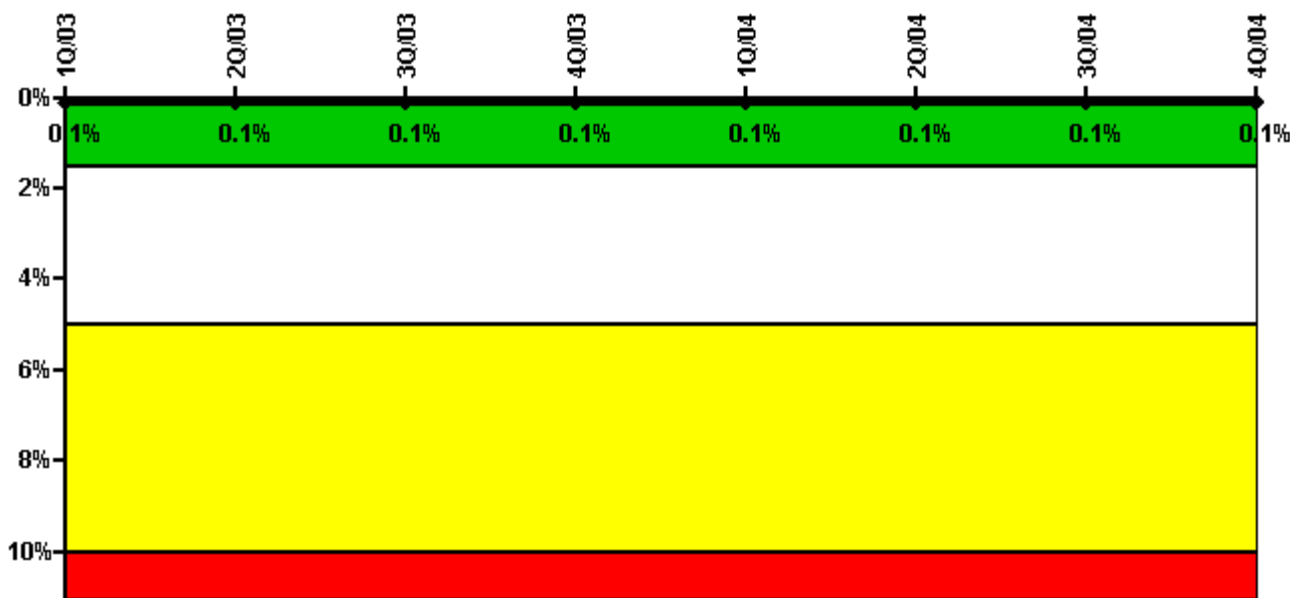
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	29.87	9.27	90.55	6.87	17.66	14.02	20.96	12.07
Unplanned unavailable hours	0	1.90	16.23	0	1.38	2.67	18.87	23.40
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1952.88	1215.90	2184.00	2112.92	2208.00	2209.00
Train 2								
Planned unavailable hours	14.73	62.79	13.16	8.92	21.35	18.77	21.80	47.30
Unplanned unavailable hours	18.17	38.62	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	2160.00	2183.00	1952.88	1215.90	2184.00	2112.92	2208.00	2209.00
Indicator value	3.0%	3.0%	3.0%	3.0%	3.0%	2.3%	2.3%	1.9%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



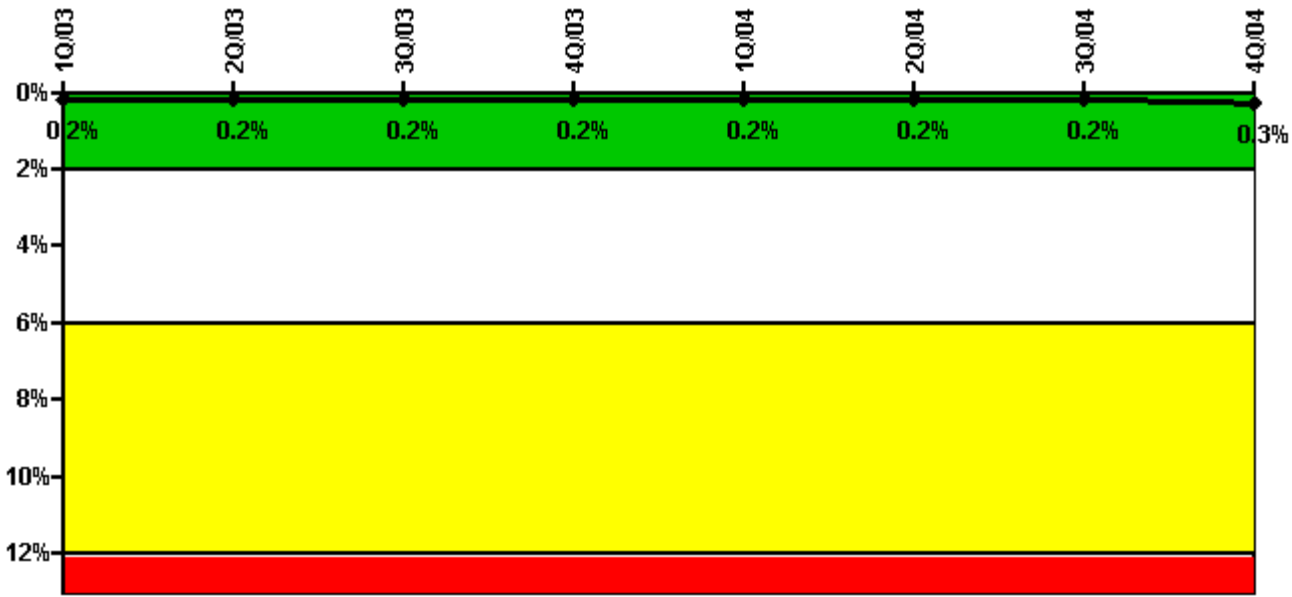
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	0	0	4.96	0	6.35	1.38	1.20	0
Unplanned unavailable hours	0	0	0	0	0.80	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1953.00	896.00	2184.00	2029.00	2208.00	2209.00
Train 2								
Planned unavailable hours	1.05	1.30	2.30	0	2.71	3.04	6.96	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	1953.00	896.00	2184.00	2029.00	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)



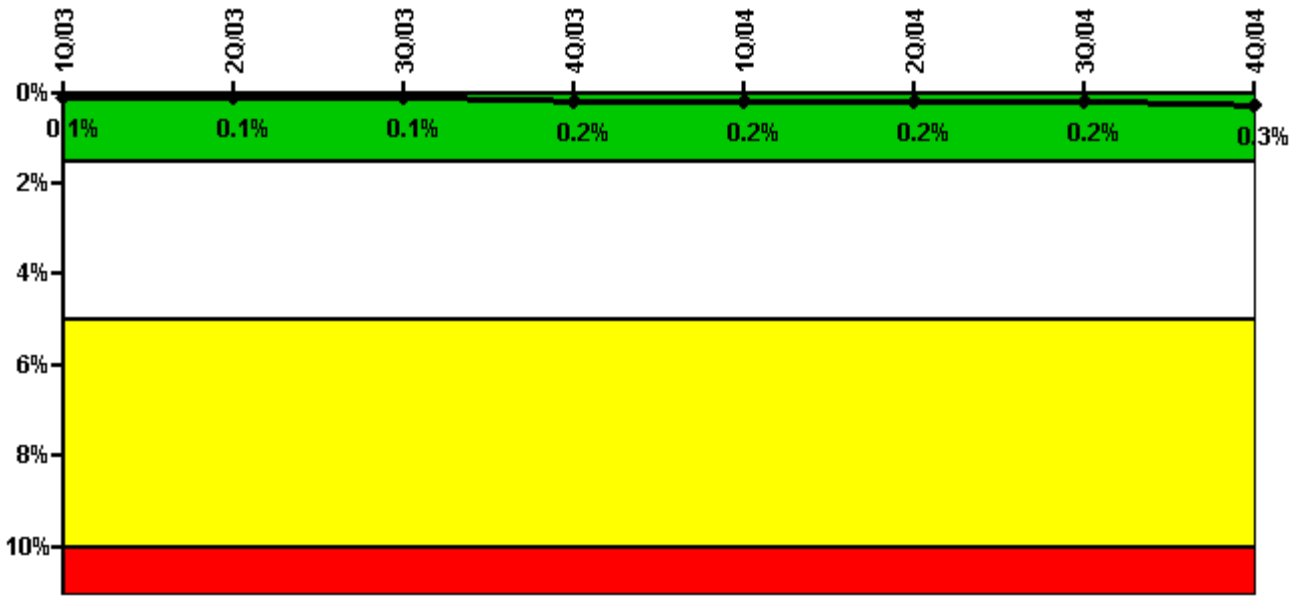
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	9.56	0.77	0.80	9.15	0.73	0	1.33	3.28
Unplanned unavailable hours	0	0	0	0	0	3.52	0	0
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	1953.00	896.00	2184.00	2113.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0.98	5.58	2.15	0	10.00	2.15	1.07	11.55
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1953.00	896.00	2184.00	2113.00	2208.00	2209.00
Train 3								
Planned unavailable hours	2.32	16.93	2.16	0.90	1.88	5.07	17.37	2.85
Unplanned unavailable hours	0	0	0	0	0	8.82	0	47.50
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	1953.00	680.00	2184.00	2041.70	2208.00	2209.00
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



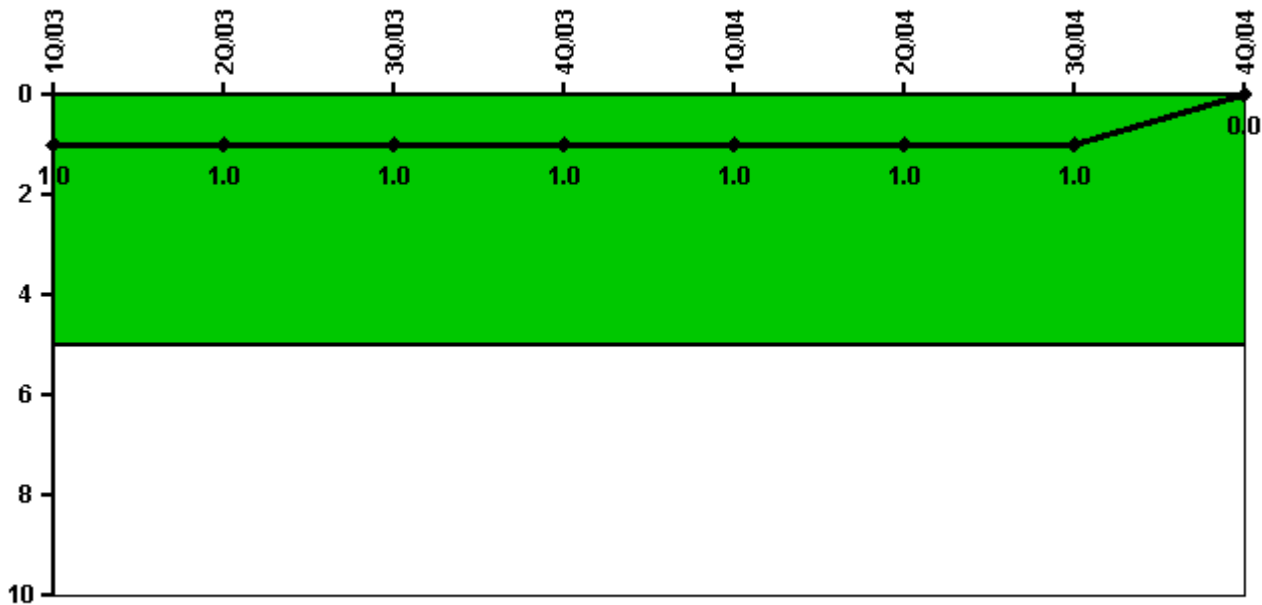
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	0.05	0.70	0.33	19.70	9.19	0.15	14.68	0.82
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2097.00	2183.00	1953.00	1439.00	2184.00	2029.00	2208.00	2209.00
Train 2								
Planned unavailable hours	1.11	1.20	0.33	19.70	15.25	13.79	0.75	0.73
Unplanned unavailable hours	0	0	0.50	0	22.77	0	0	66.70
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2097.00	2183.00	1953.00	1439.00	2184.00	2029.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	11.60	20.10	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	2097.00	2183.00	2208.00	1687.00	2184.00	2183.00	2208.00	2209.00
Train 4								
Planned unavailable hours	0	0	10.70	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	2097.00	2183.00	2208.00	1687.00	2184.00	2183.00	2208.00	2209.00
Indicator value	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.3%

Licensee Comments: none

Safety System Functional Failures (PWR)



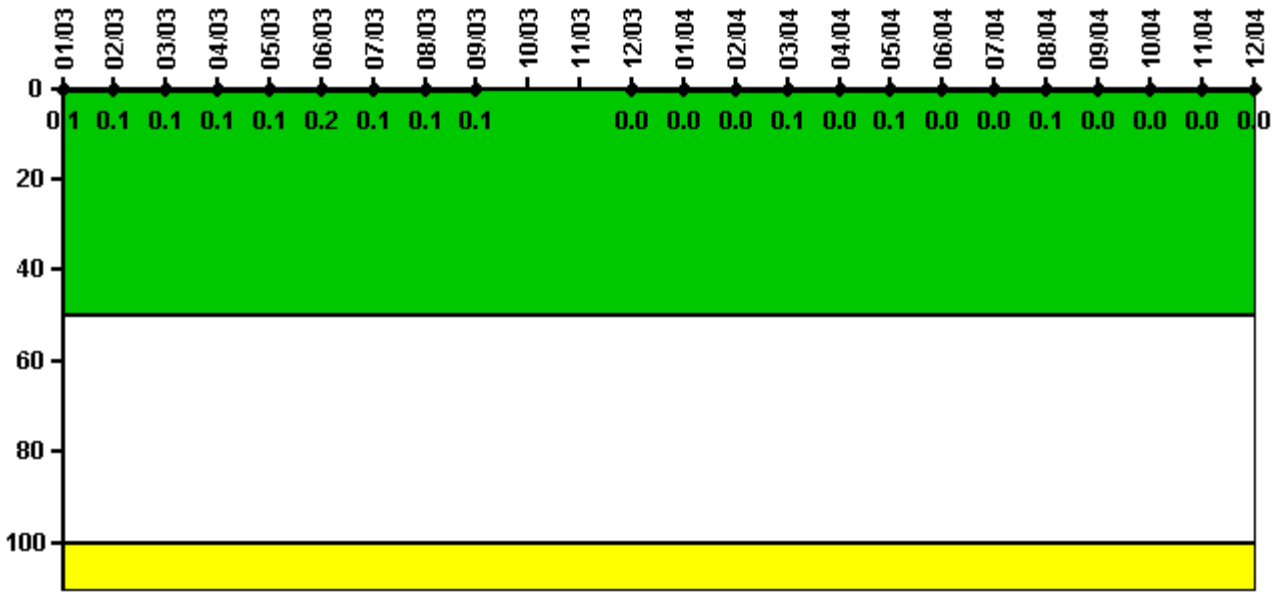
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

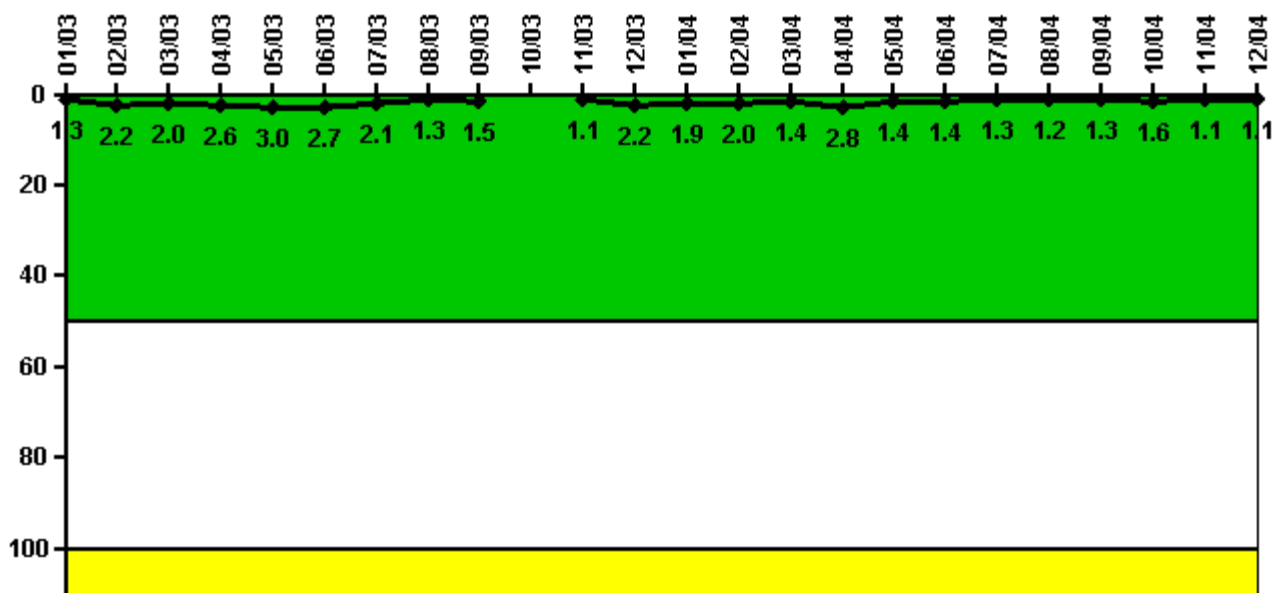
Notes

Reactor Coolant System Activity	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	0.000768	0.000753	0.000760	0.000903	0.001010	0.001870	0.000857	0.000853	0.001030	N/A	N/A	0.000318
Technical specification limit	1.0	1.0	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	0.1	0.1	0.1	N/A	N/A	0

Reactor Coolant System Activity	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum activity	0.000338	0.000316	0.000544	0.000345	0.000532	0.000437	0.000343	0.000807	0.000468	0.000352	0.000387	0.000401
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0.1	0	0.1	0	0	0.1	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



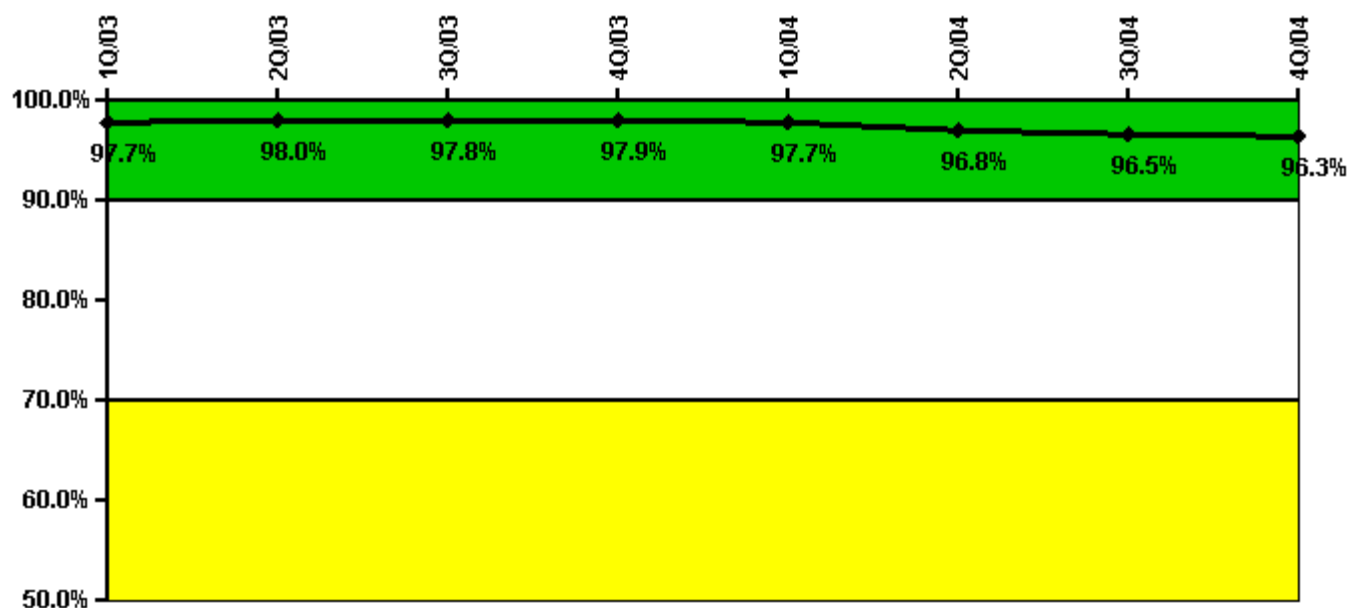
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum leakage	0.130	0.220	0.200	0.260	0.300	0.270	0.210	0.130	0.150	N/A	0.110	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	2.2	2.0	2.6	3.0	2.7	2.1	1.3	1.5	N/A	1.1	2.2
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	0.190	0.200	0.140	0.280	0.140	0.140	0.130	0.120	0.130	0.160	0.110	0.110
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.9	2.0	1.4	2.8	1.4	1.4	1.3	1.2	1.3	1.6	1.1	1.1

Licensee Comments: none

Drill/Exercise Performance



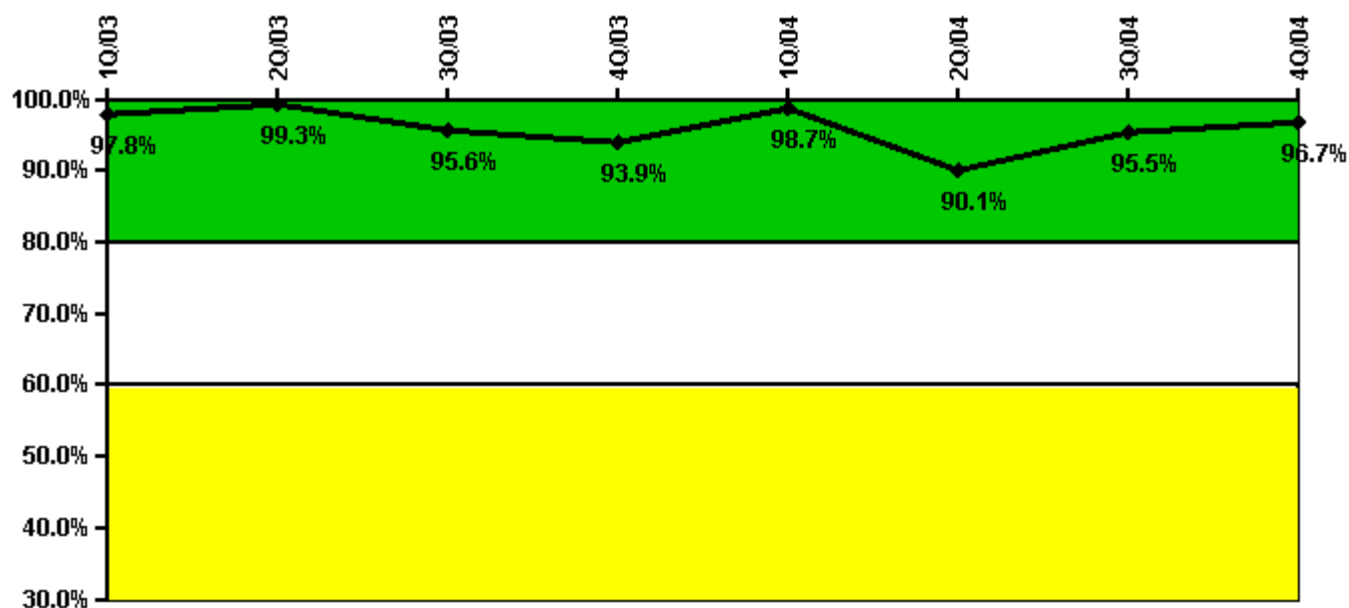
Thresholds: White < 90.0% Yellow < 70.0%

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



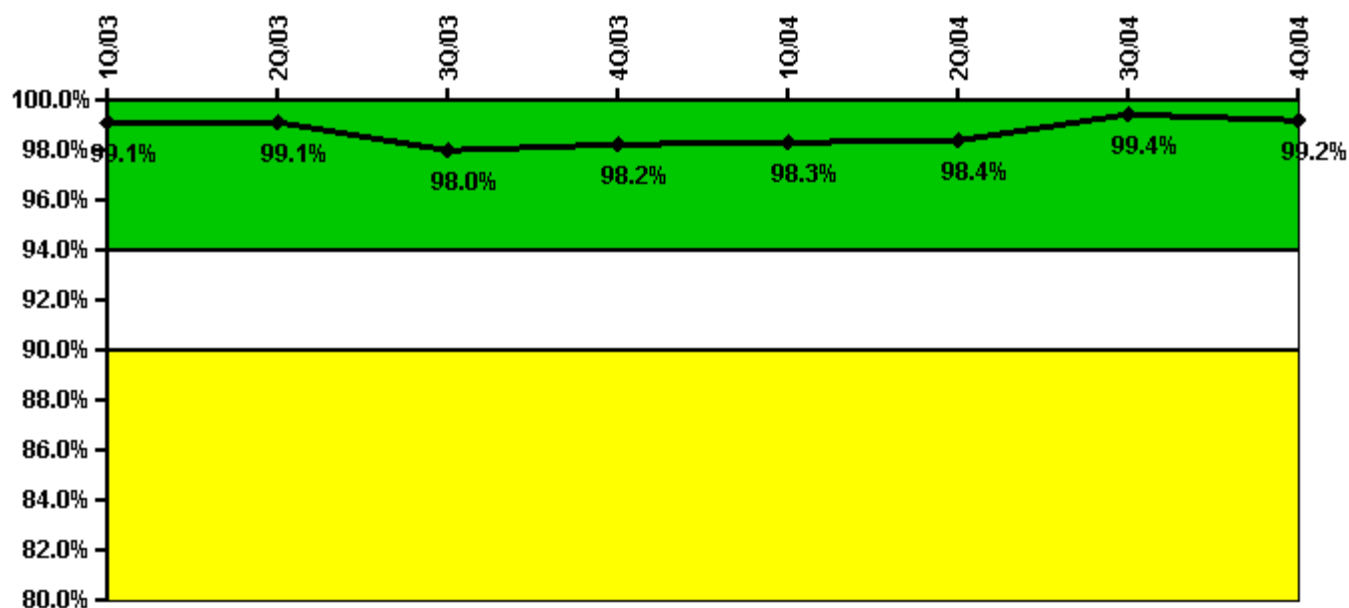
Thresholds: White < 80.0% Yellow < 60.0%

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](#)

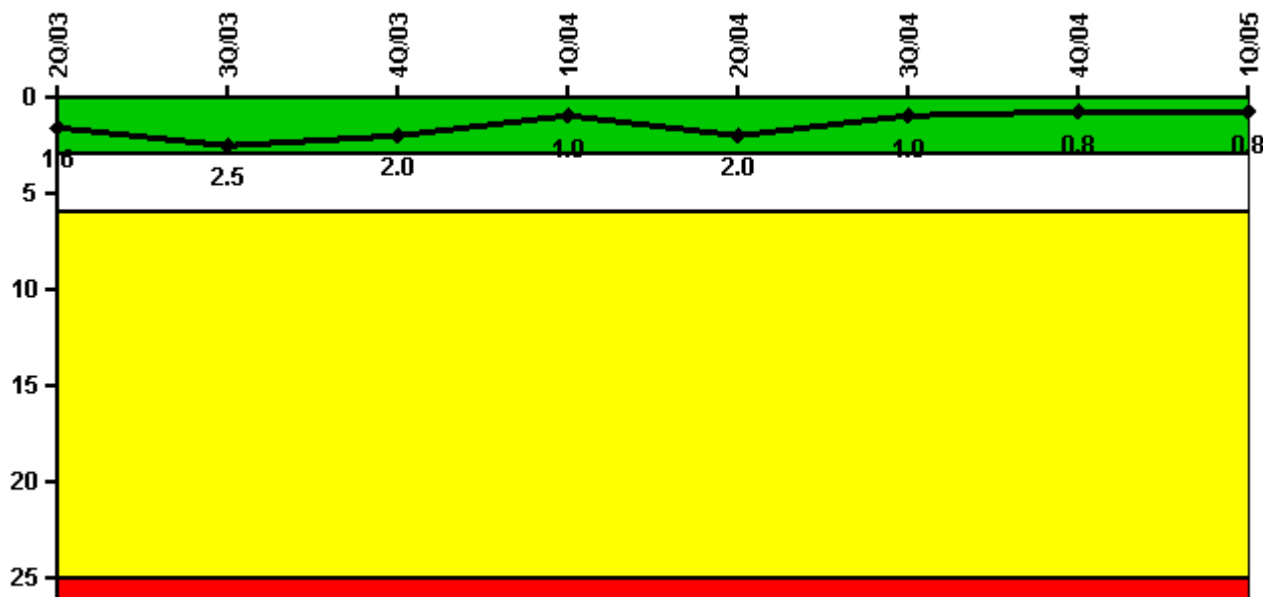
Last Modified: March 9, 2005

Surry 2

1Q/2005 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



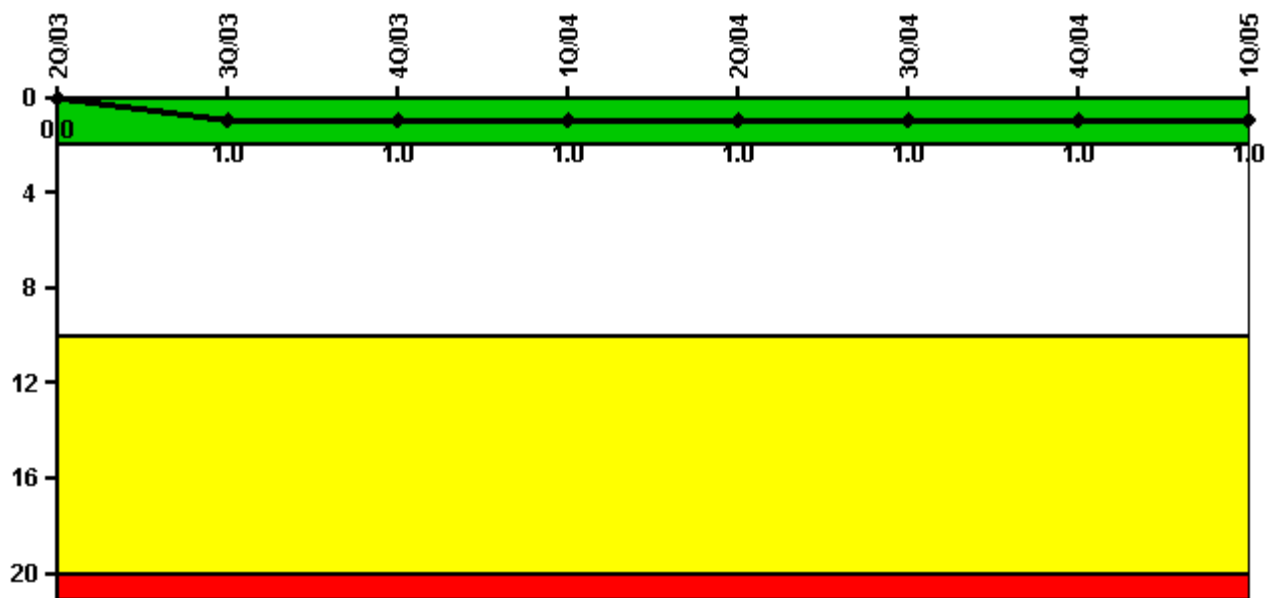
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Unplanned scrams	0	1.0	0	0	1.0	0	0	0
Critical hours	2183.0	1913.5	885.3	2184.0	2028.5	2208.0	2209.0	2160.0
Indicator value	1.6	2.5	2.0	1.0	2.0	1.0	0.8	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



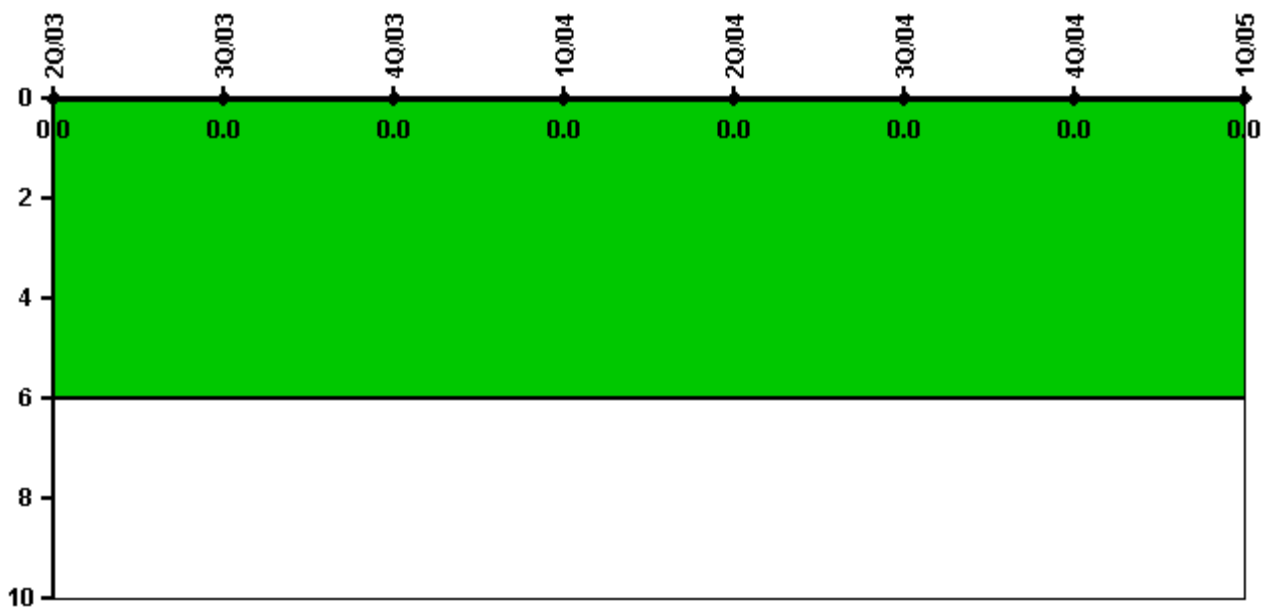
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/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



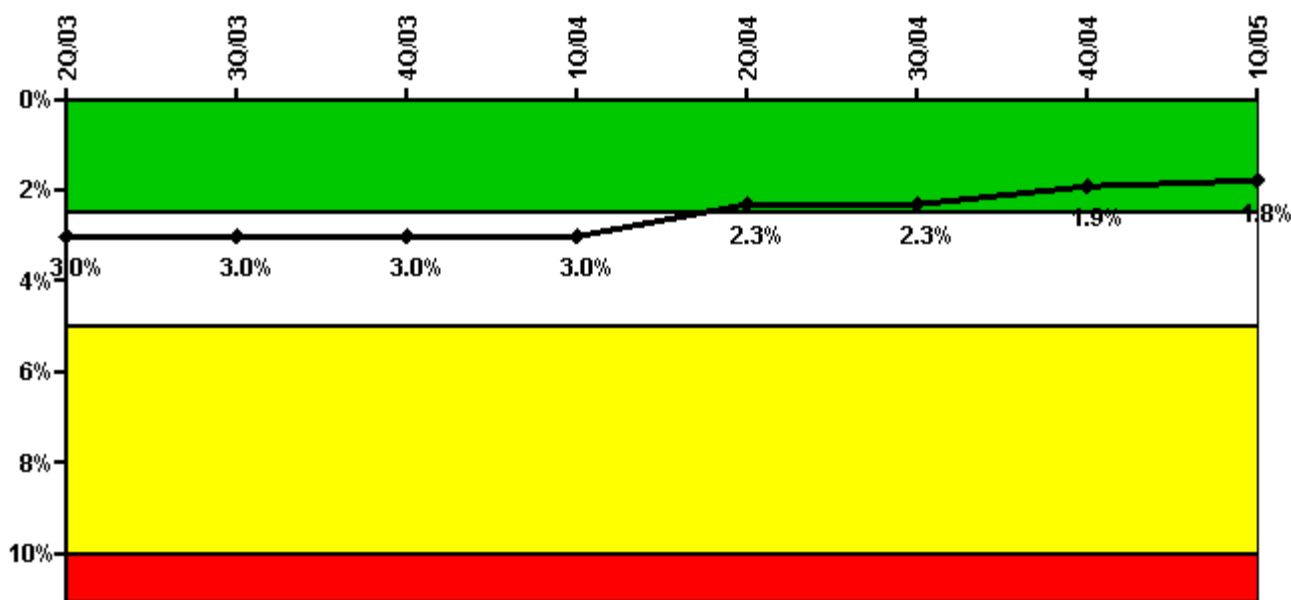
Thresholds: White > 6.0

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	0	0	0	0	0
Critical hours	2183.0	1913.5	885.3	2184.0	2028.5	2208.0	2209.0	2160.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



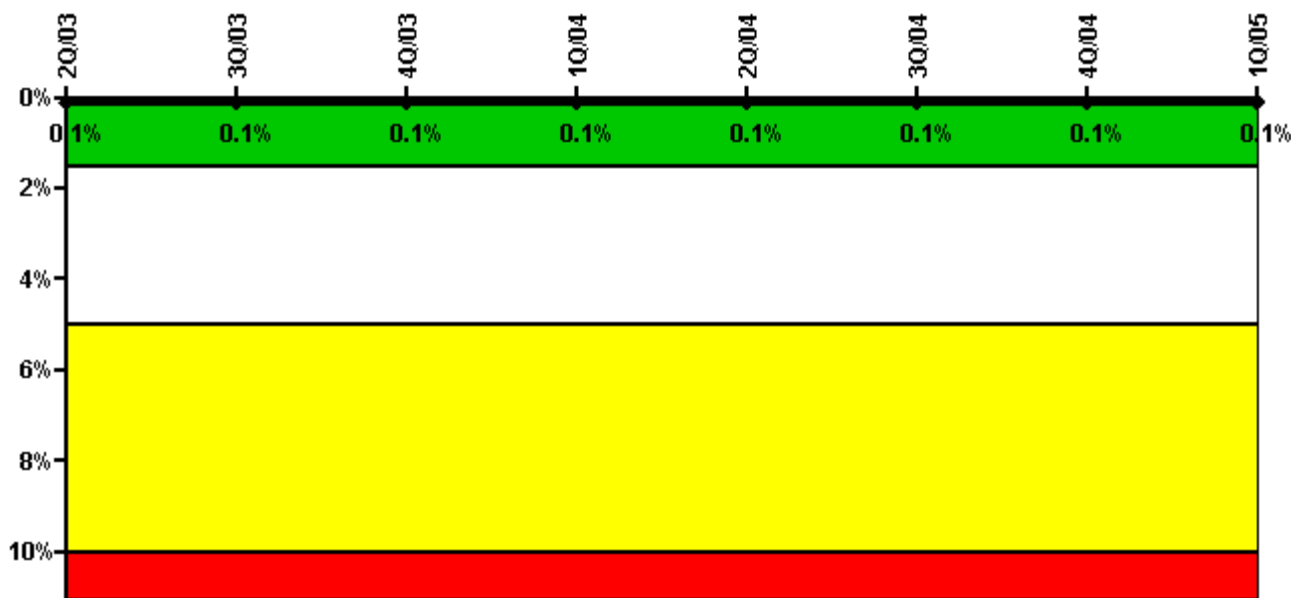
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	9.27	90.55	6.87	17.66	14.02	20.96	12.07	11.62
Unplanned unavailable hours	1.90	16.23	0	1.38	2.67	18.87	23.40	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	2183.00	1952.88	1215.90	2184.00	2112.92	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	62.79	13.16	8.92	21.35	18.77	21.80	47.30	11.99
Unplanned unavailable hours	38.62	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	2183.00	1952.88	1215.90	2184.00	2112.92	2208.00	2209.00	2160.00
Indicator value	3.0%	3.0%	3.0%	3.0%	2.3%	2.3%	1.9%	1.8%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



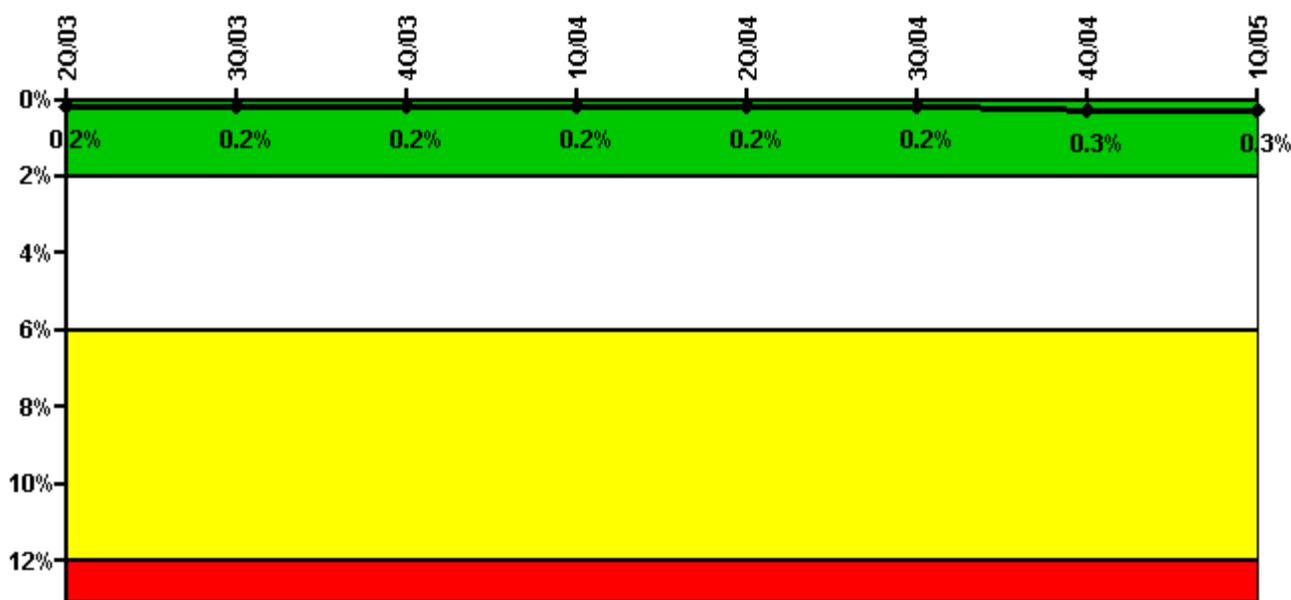
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	0	4.96	0	6.35	1.38	1.20	0	1.58
Unplanned unavailable hours	0	0	0	0.80	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1953.00	896.00	2184.00	2029.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	1.30	2.30	0	2.71	3.04	6.96	1.38	4.34
Unplanned unavailable hours	0	0	0	0	0	0	0	0
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	1953.00	896.00	2184.00	2029.00	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)



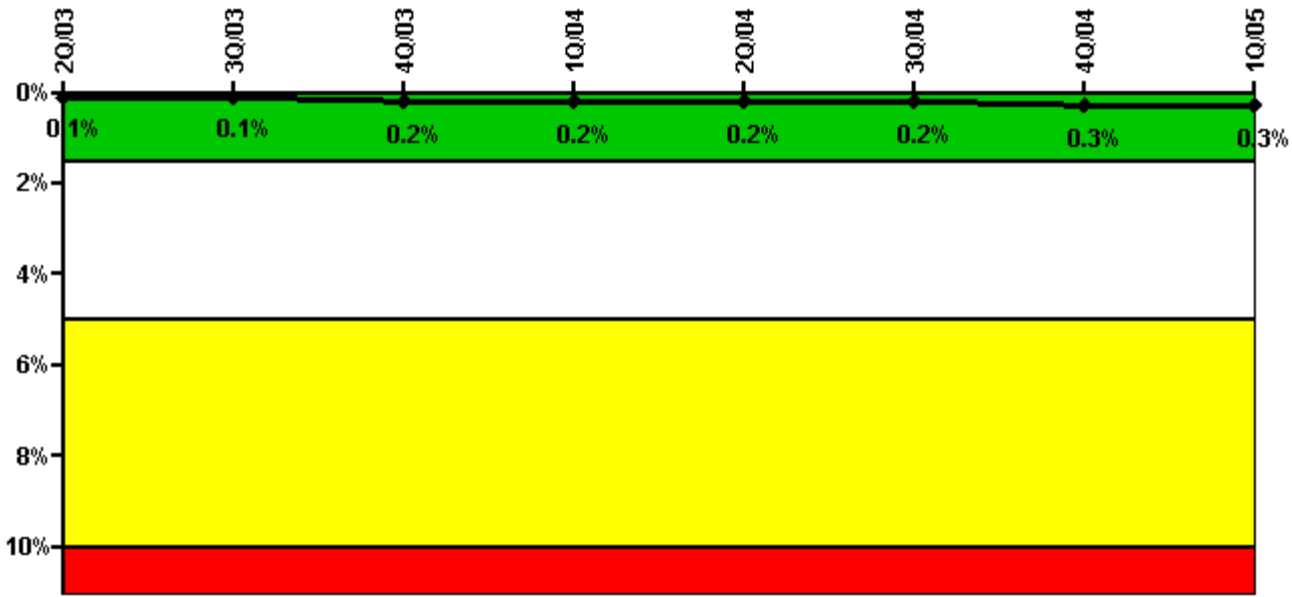
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	0.77	0.80	9.15	0.73	0	1.33	3.28	10.80
Unplanned unavailable hours	0	0	0	0	3.52	0	0	0
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	1953.00	896.00	2184.00	2113.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	5.58	2.15	0	10.00	2.15	1.07	11.55	1.30
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	2183.00	1953.00	896.00	2184.00	2113.00	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	16.93	2.16	0.90	1.88	5.07	17.37	2.85	23.79
Unplanned unavailable hours	0	0	0	0	8.82	0	47.50	0
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	1953.00	680.00	2184.00	2041.70	2208.00	2209.00	2160.00
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



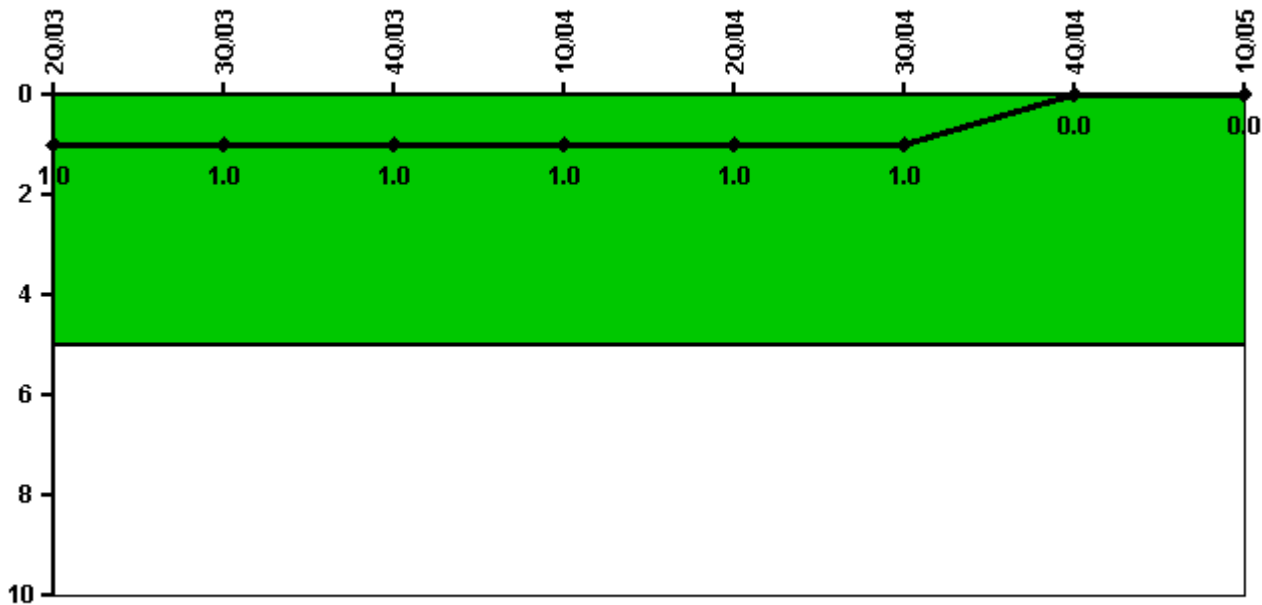
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	0.70	0.33	19.70	9.19	0.15	14.68	0.82	0.53
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1953.00	1439.00	2184.00	2029.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	1.20	0.33	19.70	15.25	13.79	0.75	0.73	1.66
Unplanned unavailable hours	0	0.50	0	22.77	0	0	66.70	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1953.00	1439.00	2184.00	2029.00	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	0	11.60	20.10	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	1687.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 4								
Planned unavailable hours	0	10.70	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	1687.00	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%

Licensee Comments: none

Safety System Functional Failures (PWR)



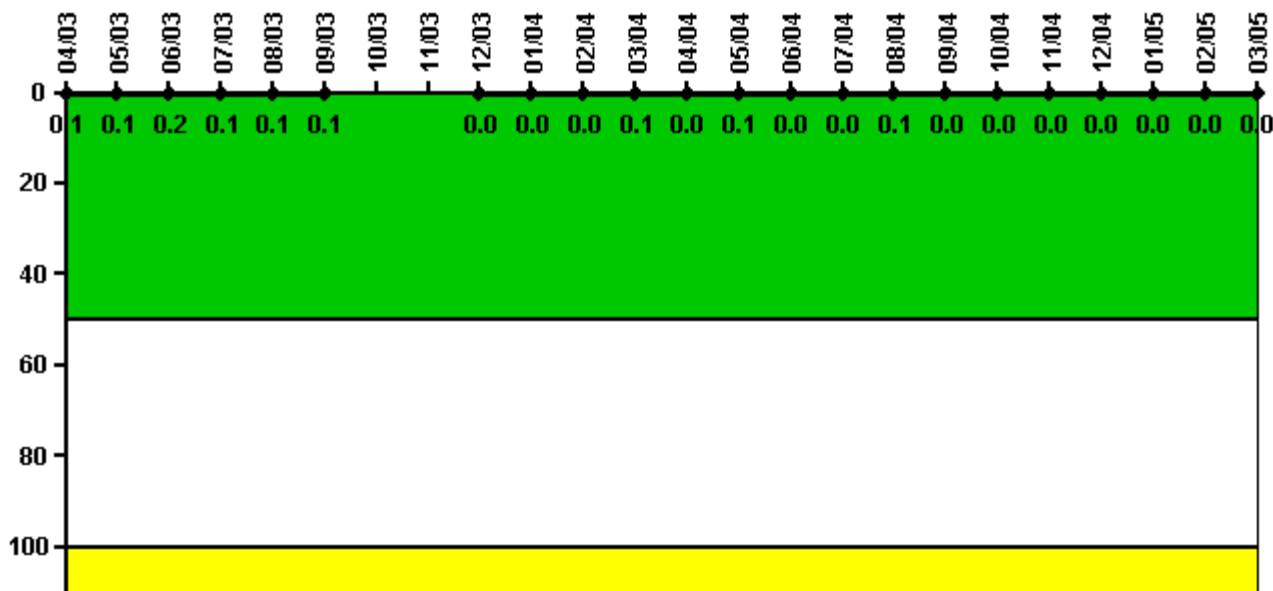
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	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	1	1	1	1	1	1	0	0

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

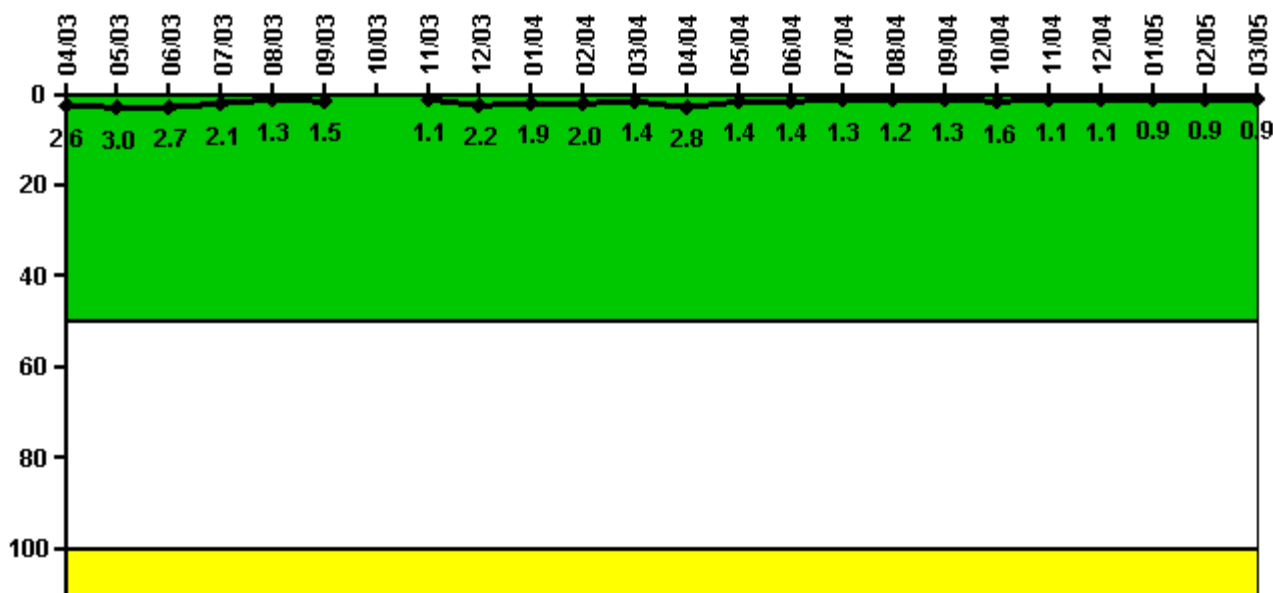
Notes

Reactor Coolant System Activity	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	0.000903	0.001010	0.001870	0.000857	0.000853	0.001030	N/A	N/A	0.000318	0.000338	0.000316	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	0.2	0.1	0.1	0.1	N/A	N/A	0	0	0	0.1

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	0.000345	0.000532	0.000437	0.000343	0.000807	0.000468	0.000352	0.000387	0.000401	0.000390	0.000395	0.000403
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0.1	0	0	0.1	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

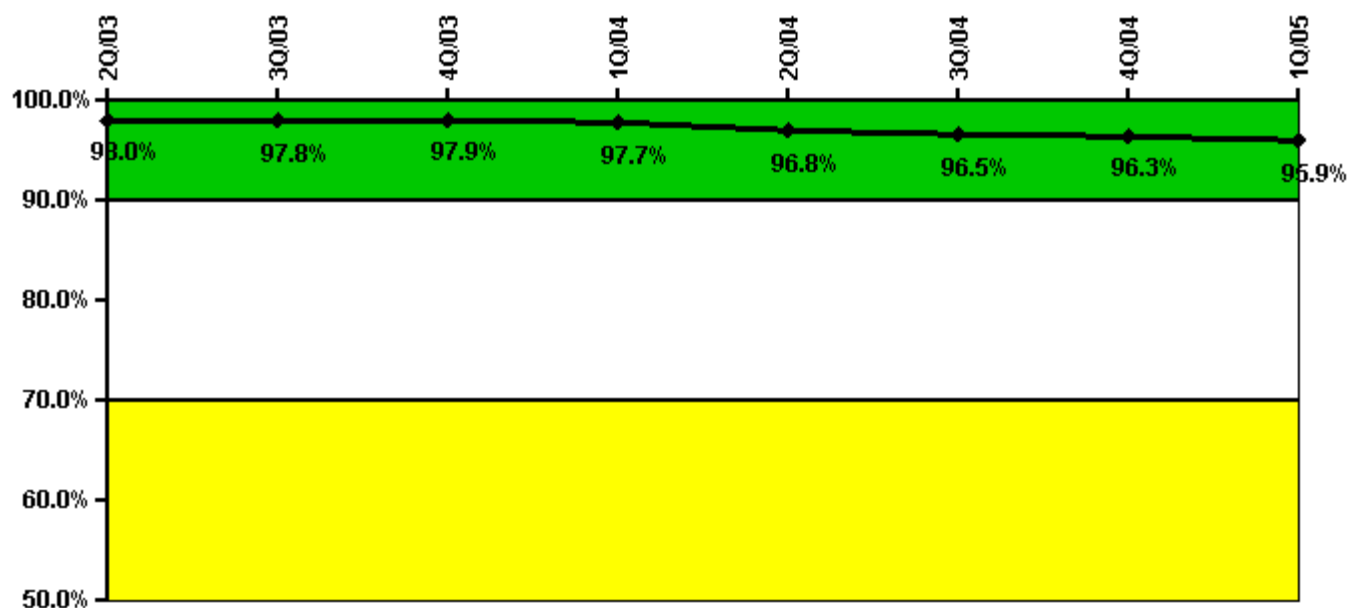
Notes

Reactor Coolant System Leakage	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04
Maximum leakage	0.260	0.300	0.270	0.210	0.130	0.150	N/A	0.110	0.220	0.190	0.200	0.140
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.6	3.0	2.7	2.1	1.3	1.5	N/A	1.1	2.2	1.9	2.0	1.4

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	0.280	0.140	0.140	0.130	0.120	0.130	0.160	0.110	0.110	0.090	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	2.8	1.4	1.4	1.3	1.2	1.3	1.6	1.1	1.1	0.9	0.9	0.9

Licensee Comments: none

Drill/Exercise Performance



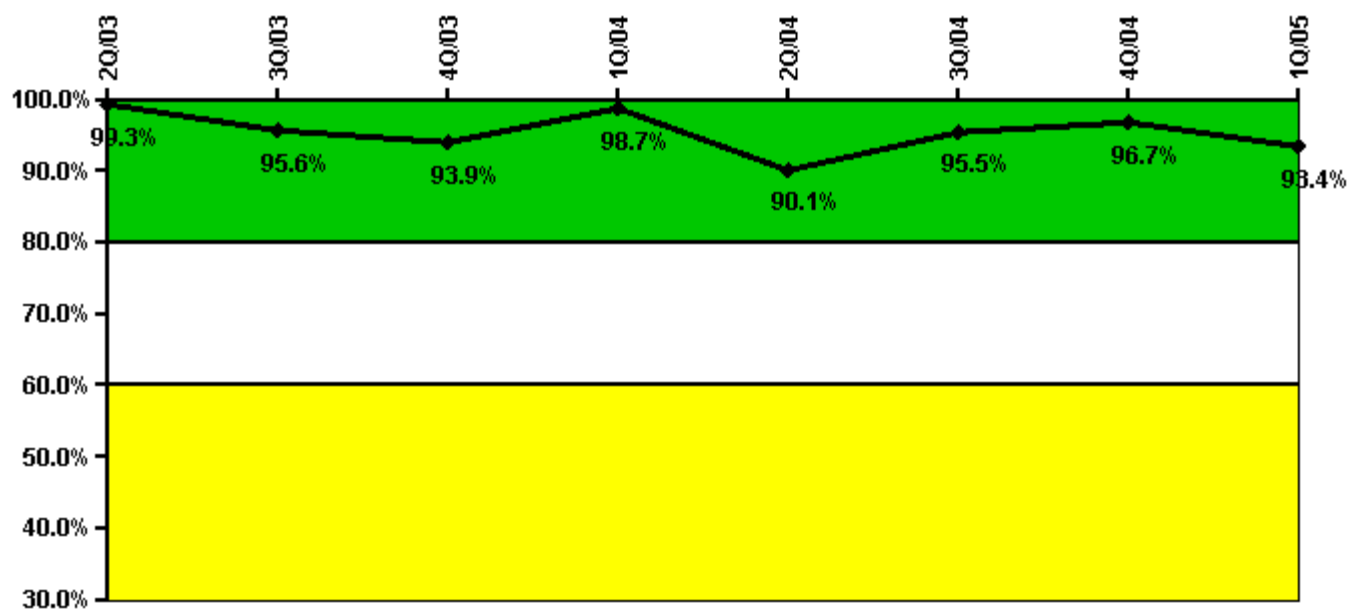
Thresholds: White < 90.0% Yellow < 70.0%

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



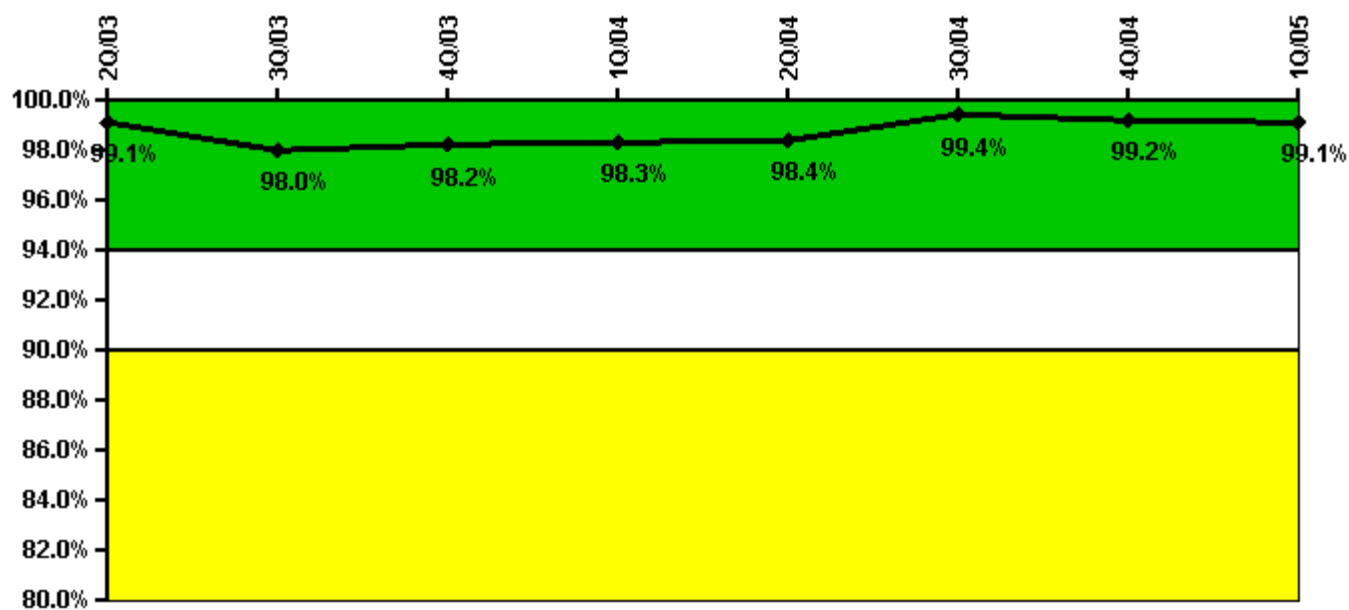
Thresholds: White < 80.0% Yellow < 60.0%

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



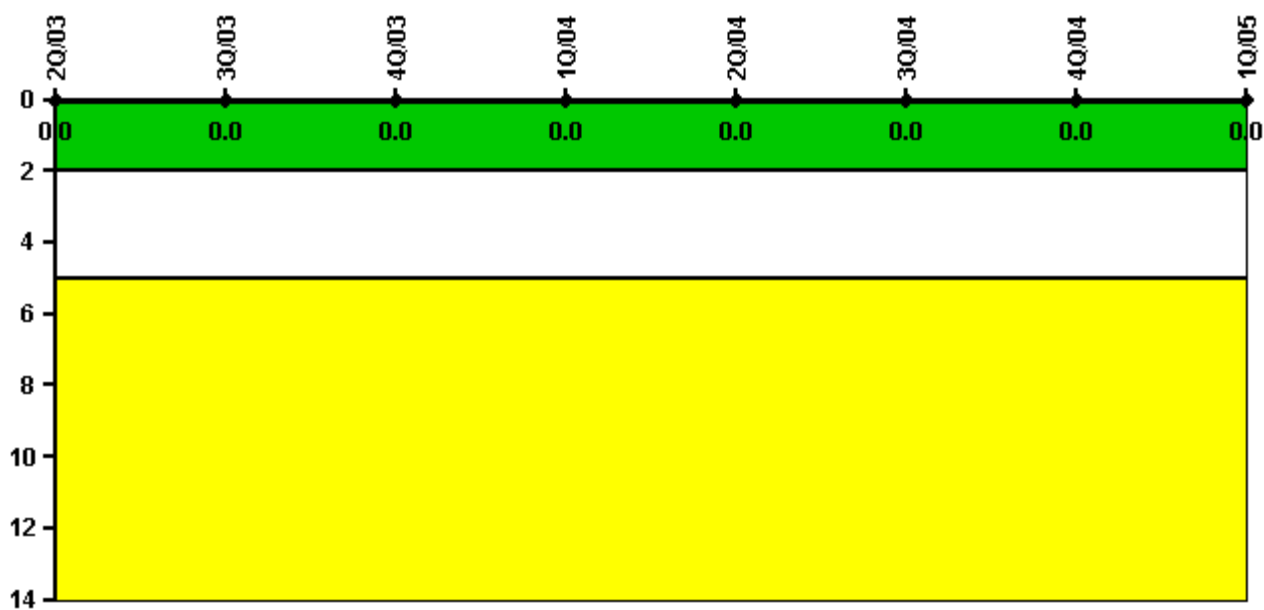
Thresholds: White < 94.0% Yellow < 90.0%

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



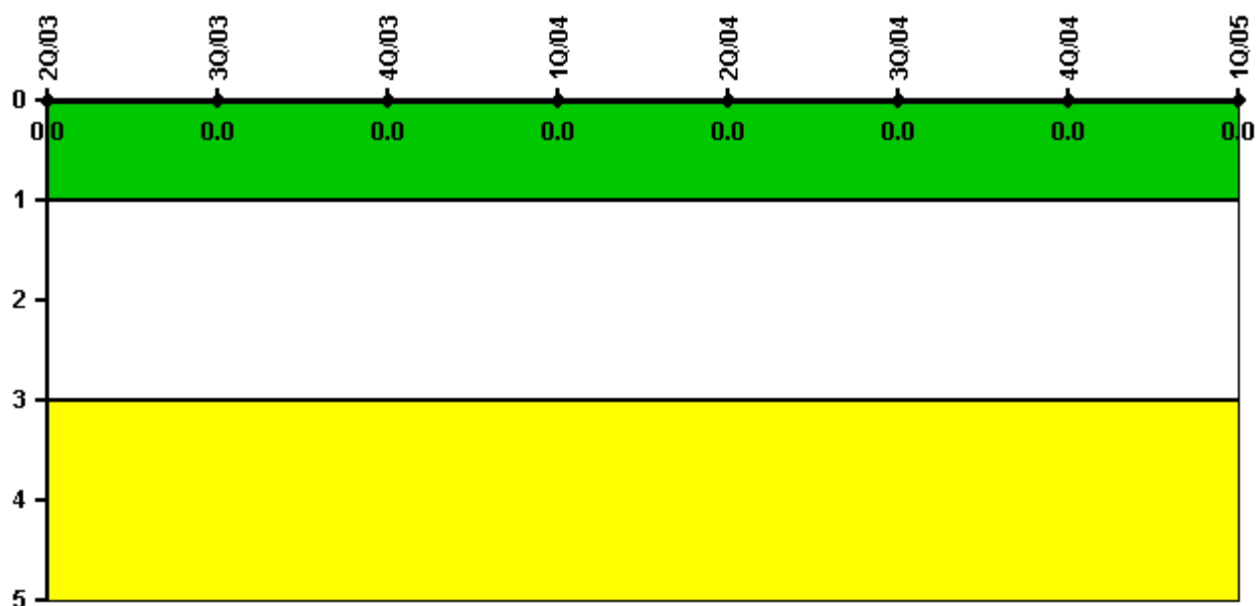
Thresholds: White > 2.0 Yellow > 5.0

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](#)

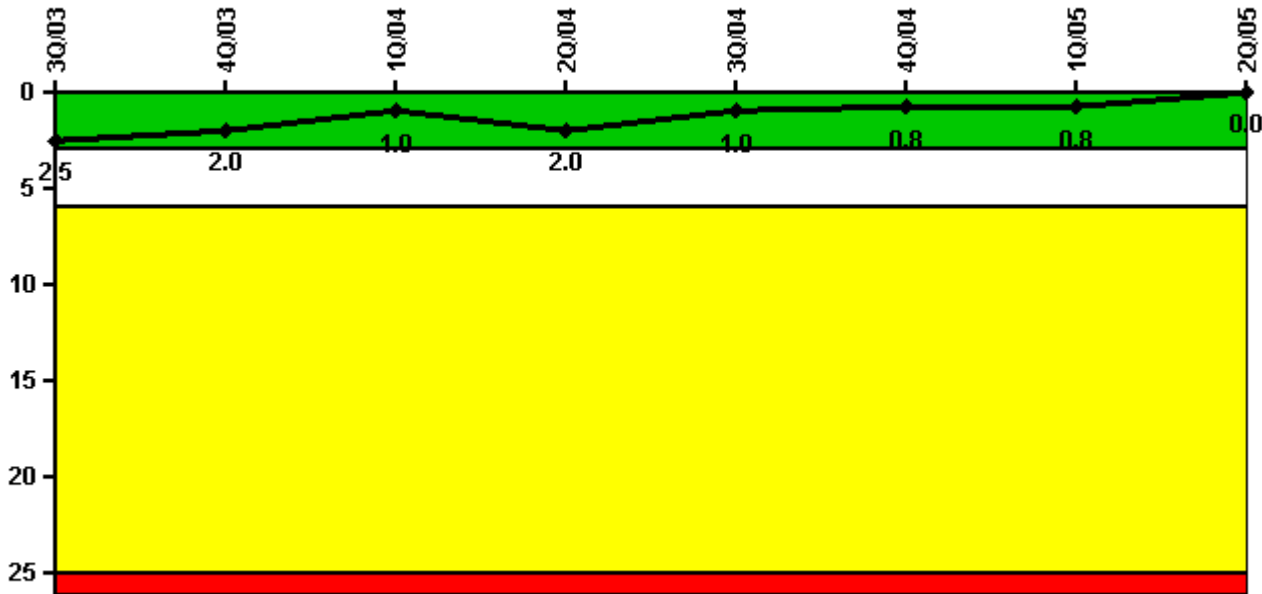
Last Modified: June 17, 2005

Surry 2

2Q/2005 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



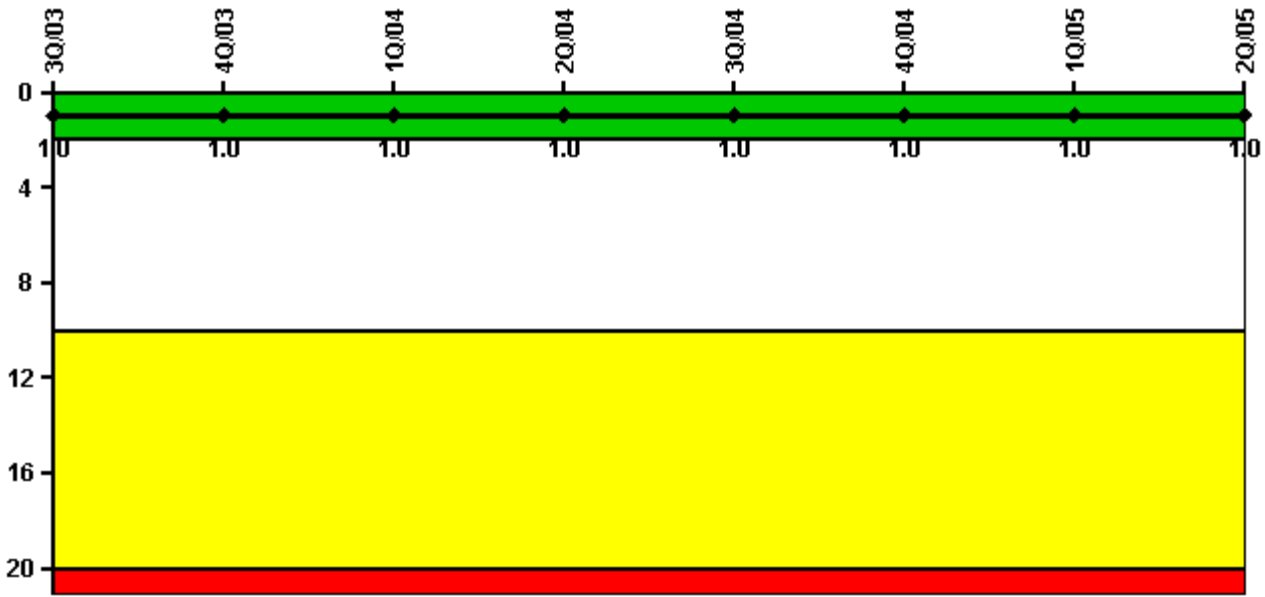
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned scrams	1.0	0	0	1.0	0	0	0	0
Critical hours	1913.5	885.3	2184.0	2028.5	2208.0	2209.0	2160.0	1505.8
Indicator value	2.5	2.0	1.0	2.0	1.0	0.8	0.8	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



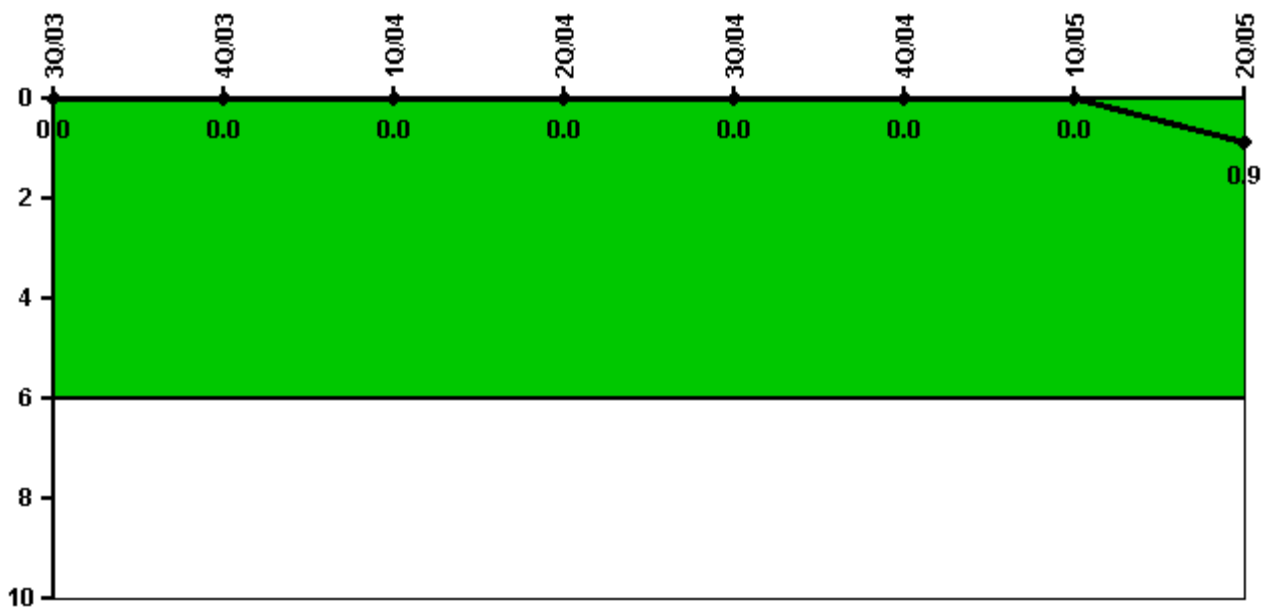
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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



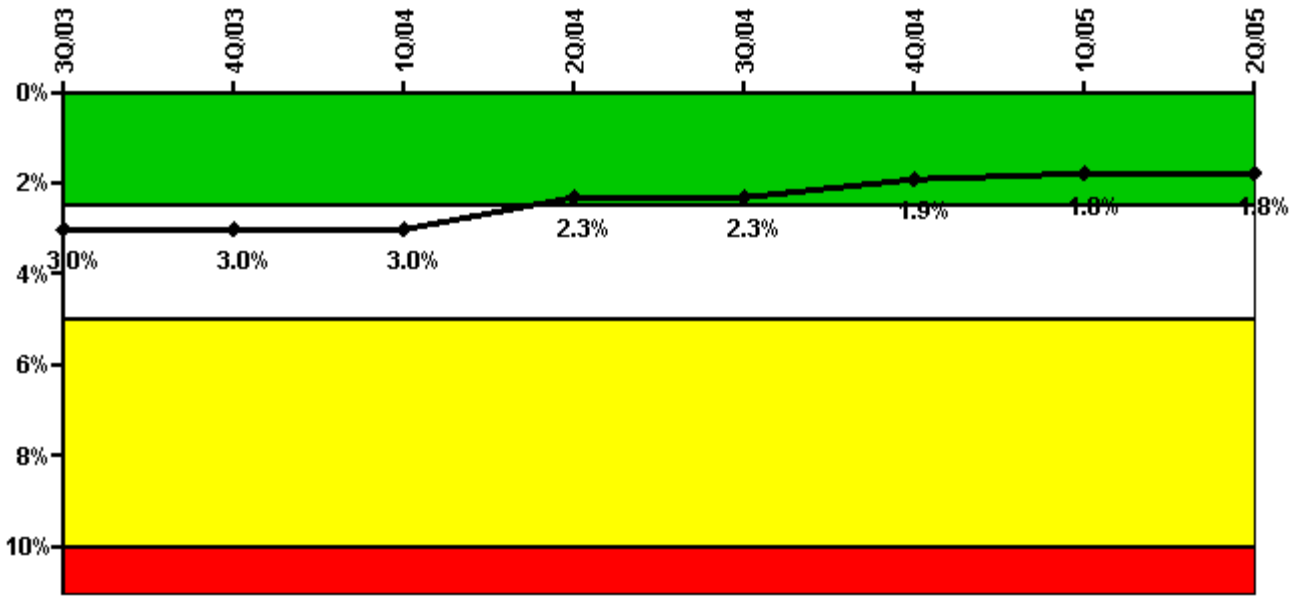
Thresholds: White > 6.0

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	0	0	0	0	0	1.0
Critical hours	1913.5	885.3	2184.0	2028.5	2208.0	2209.0	2160.0	1505.8
Indicator value	0	0	0	0	0	0	0	0.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



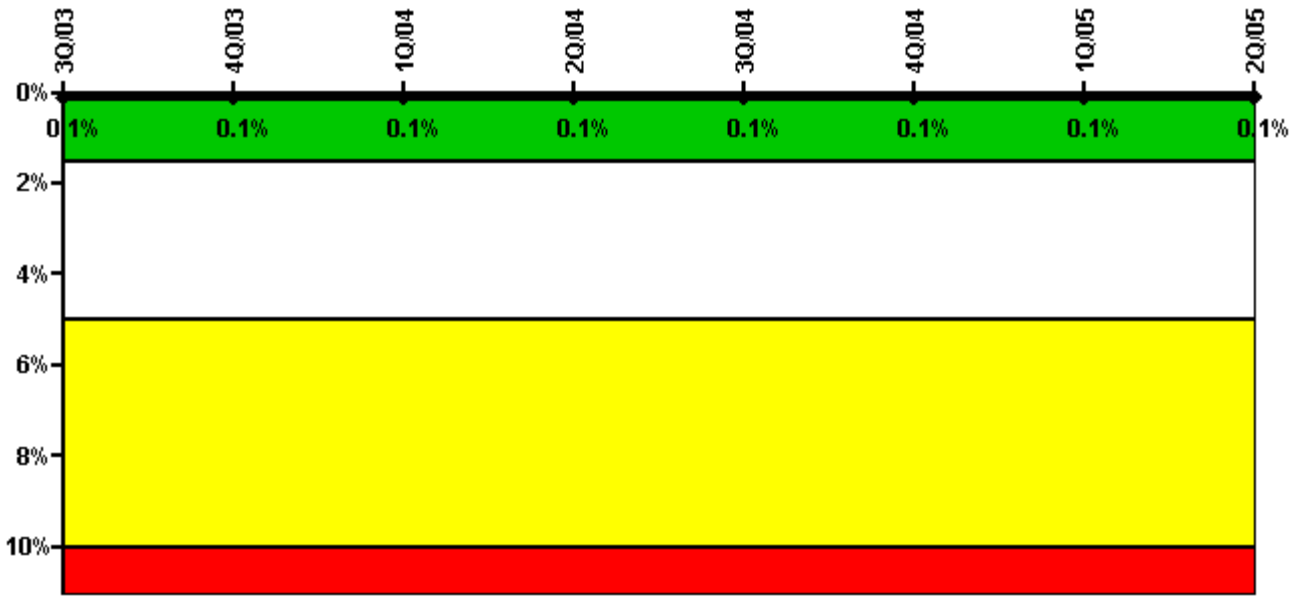
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	90.55	6.87	17.66	14.02	20.96	12.07	11.62	7.93
Unplanned unavailable hours	16.23	0	1.38	2.67	18.87	23.40	0	15.78
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1952.88	1215.90	2184.00	2112.92	2208.00	2209.00	2160.00	1554.45
Train 2								
Planned unavailable hours	13.16	8.92	21.35	18.77	21.80	47.30	11.99	7.54
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	1952.88	1215.90	2184.00	2112.92	2208.00	2209.00	2160.00	1554.45
Indicator value	3.0%	3.0%	3.0%	2.3%	2.3%	1.9%	1.8%	1.8%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



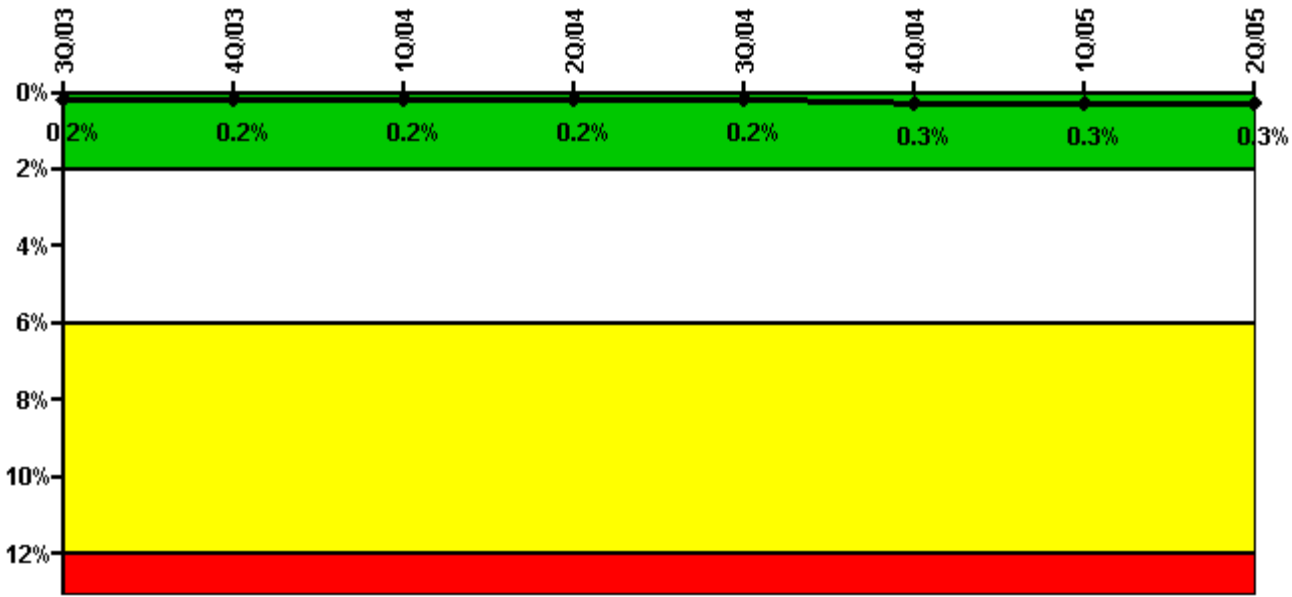
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	4.96	0	6.35	1.38	1.20	0	1.58	0
Unplanned unavailable hours	0	0	0.80	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	1953.00	896.00	2184.00	2029.00	2208.00	2209.00	2160.00	1506.80
Train 2								
Planned unavailable hours	2.30	0	2.71	3.04	6.96	1.38	4.34	1.15
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1953.00	896.00	2184.00	2029.00	2208.00	2209.00	2160.00	1506.80
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)



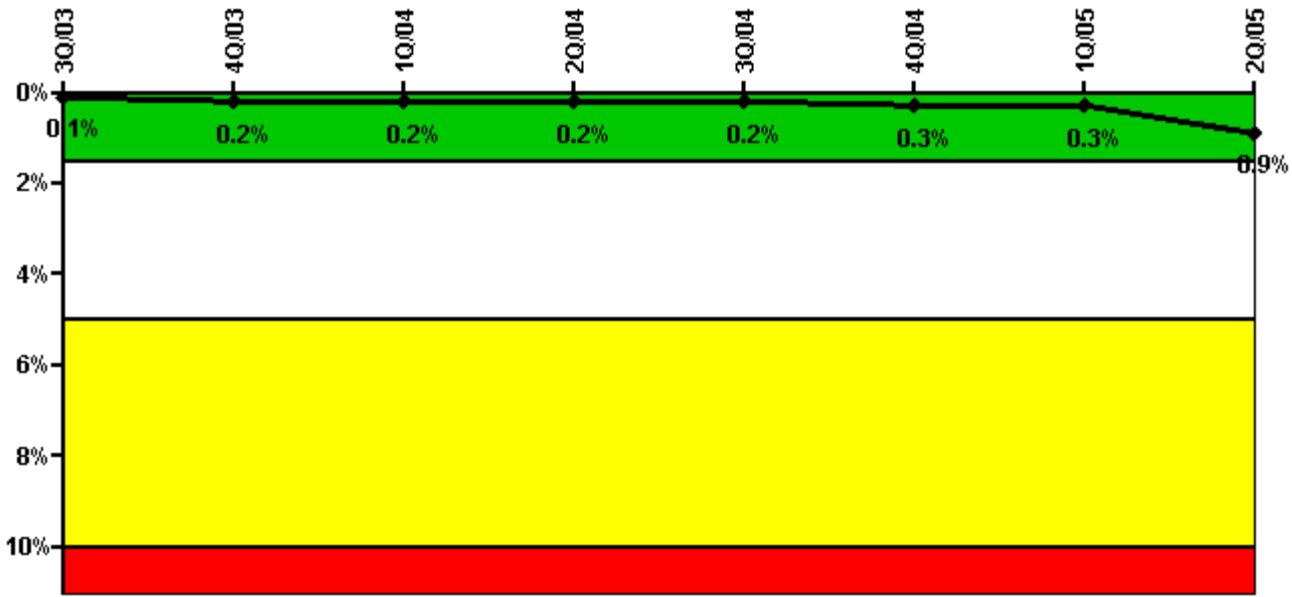
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	0.80	9.15	0.73	0	1.33	3.28	10.80	0
Unplanned unavailable hours	0	0	0	3.52	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1953.00	896.00	2184.00	2113.00	2208.00	2209.00	2160.00	1554.40
Train 2								
Planned unavailable hours	2.15	0	10.00	2.15	1.07	11.55	1.30	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	1953.00	896.00	2184.00	2113.00	2208.00	2209.00	2160.00	1554.40
Train 3								
Planned unavailable hours	2.16	0.90	1.88	5.07	17.37	2.85	23.79	0
Unplanned unavailable hours	0	0	0	8.82	0	47.50	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1953.00	680.00	2184.00	2041.70	2208.00	2209.00	2160.00	1551.30
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



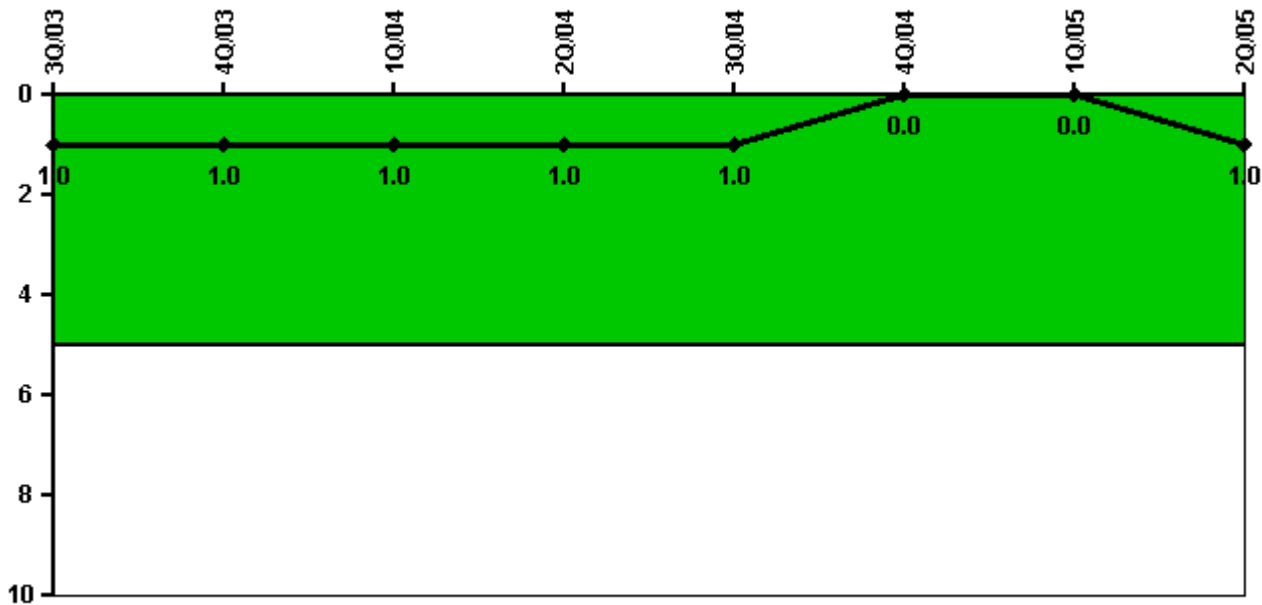
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	0.33	19.70	9.19	0.15	14.68	0.82	0.53	7.78
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	1953.00	1439.00	2184.00	2029.00	2208.00	2209.00	2160.00	1506.80
Train 2								
Planned unavailable hours	0.33	19.70	15.25	13.79	0.75	0.73	1.66	9.69
Unplanned unavailable hours	0.50	0	22.77	0	0	66.70	0	0
Fault exposure hours	0	0	0	0	0	0	0	537.70
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1953.00	1439.00	2184.00	2029.00	2208.00	2209.00	2160.00	1506.80
Train 3								
Planned unavailable hours	11.60	20.10	0	0	0	0	0	58.30
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	1687.00	2184.00	2183.00	2208.00	2209.00	2160.00	1975.30
Train 4								
Planned unavailable hours	10.70	0	0	0	0	0	0	9.28
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1687.00	2184.00	2183.00	2208.00	2209.00	2160.00	1975.30
Indicator value	0.1%	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%	0.9%

Licensee Comments: none

Safety System Functional Failures (PWR)



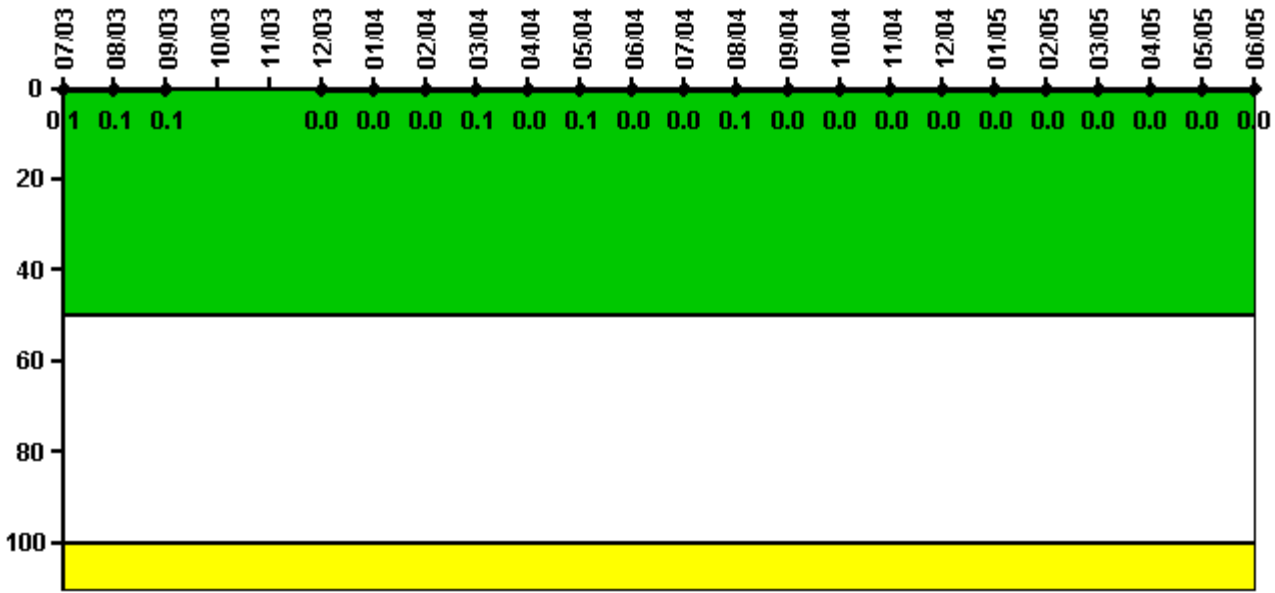
Thresholds: White > 5.0

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	1
Indicator value	1	1	1	1	1	0	0	1

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

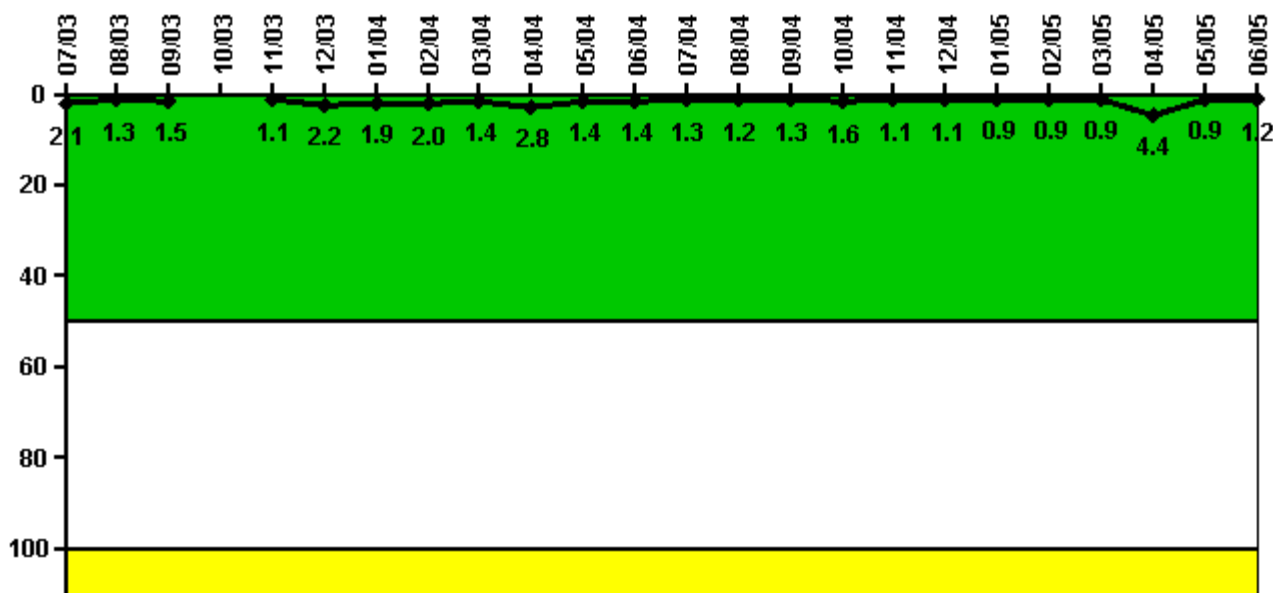
Notes

Reactor Coolant System Activity	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum activity	0.000857	0.000853	0.001030	N/A	N/A	0.000318	0.000338	0.000316	0.000544	0.000345	0.000532	0.000437
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	N/A	N/A	0	0	0	0.1	0	0.1	0

Reactor Coolant System Activity	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05
Maximum activity	0.000343	0.000807	0.000468	0.000352	0.000387	0.000401	0.000390	0.000395	0.000403	0.000433	0.000313	0.000404
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0.1	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

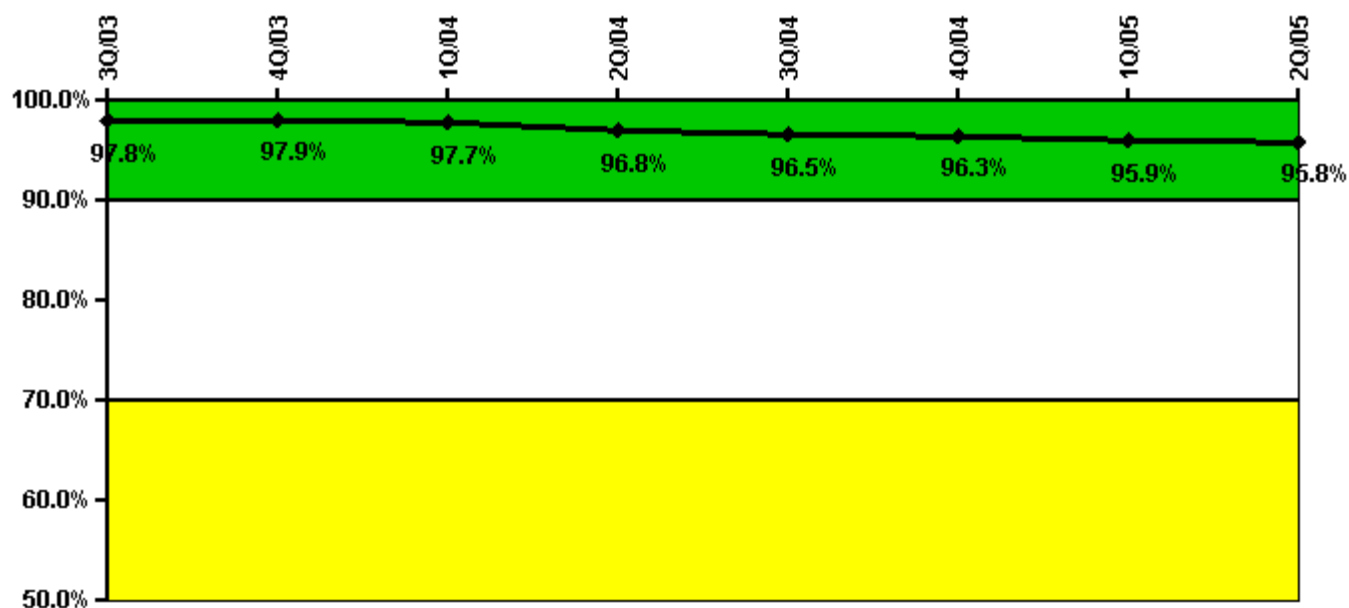
Notes

Reactor Coolant System Leakage	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum leakage	0.210	0.130	0.150	N/A	0.110	0.220	0.190	0.200	0.140	0.280	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	2.1	1.3	1.5	N/A	1.1	2.2	1.9	2.0	1.4	2.8	1.4	1.4

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	0.130	0.120	0.130	0.160	0.110	0.110	0.090	0.090	0.090	0.440	0.090	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	1.3	1.2	1.3	1.6	1.1	1.1	0.9	0.9	0.9	4.4	0.9	1.2

Licensee Comments: none

Drill/Exercise Performance



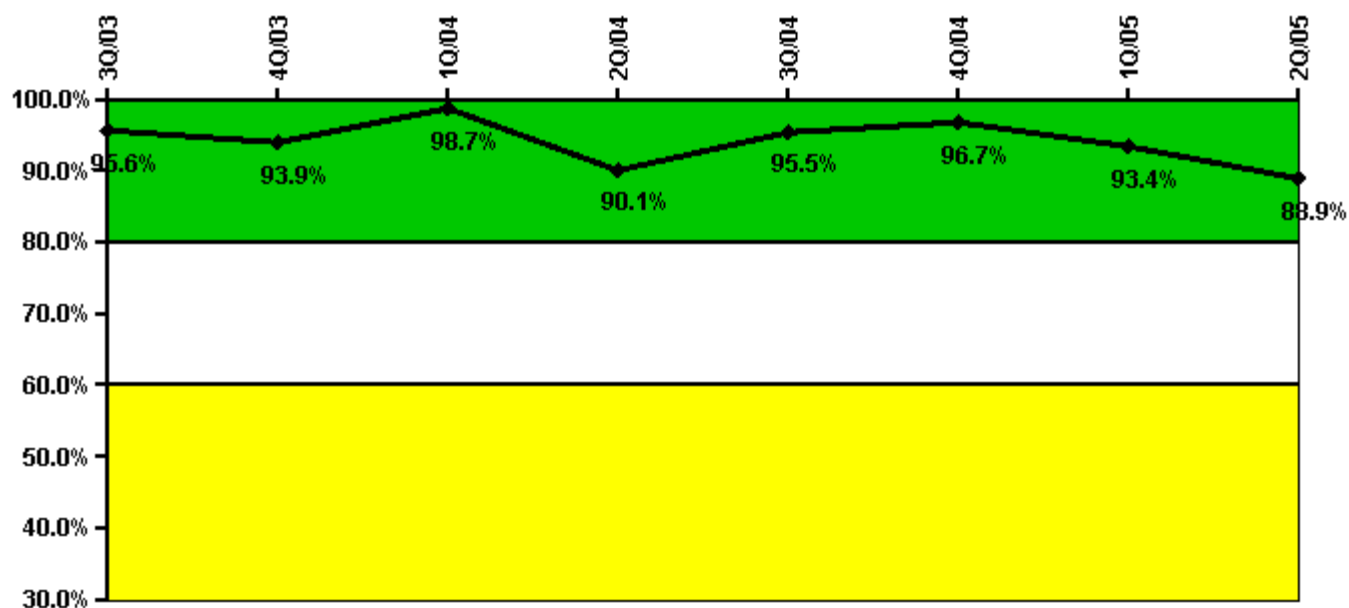
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful opportunities	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



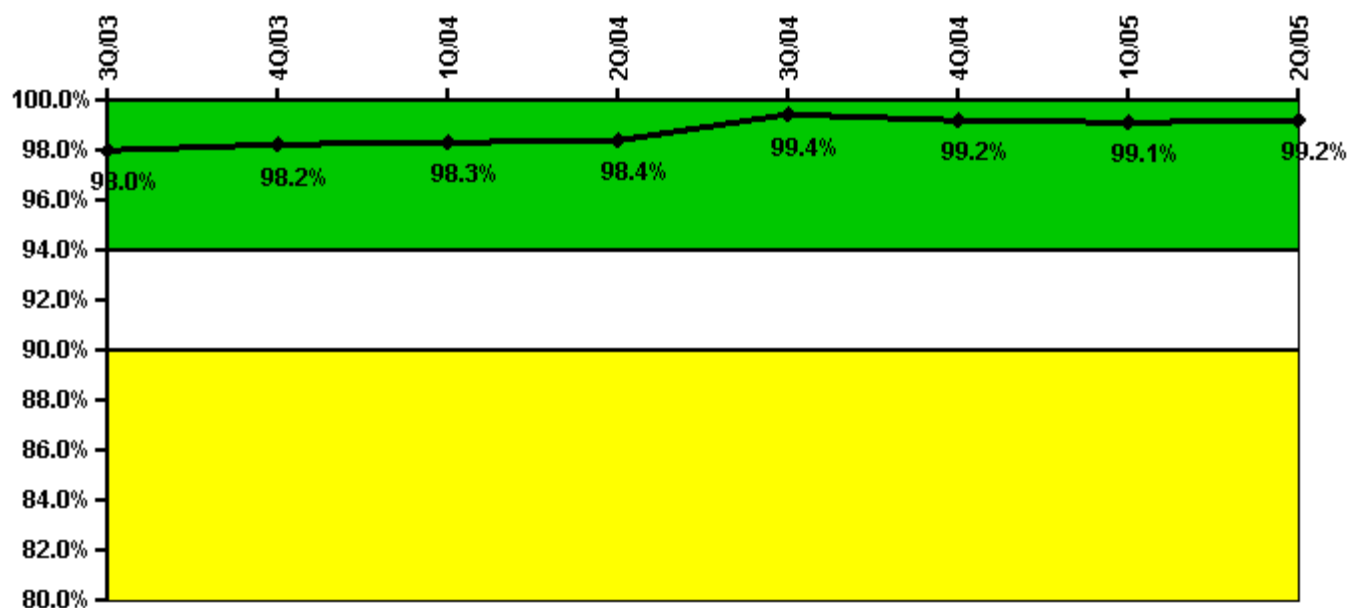
Thresholds: White < 80.0% Yellow < 60.0%

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



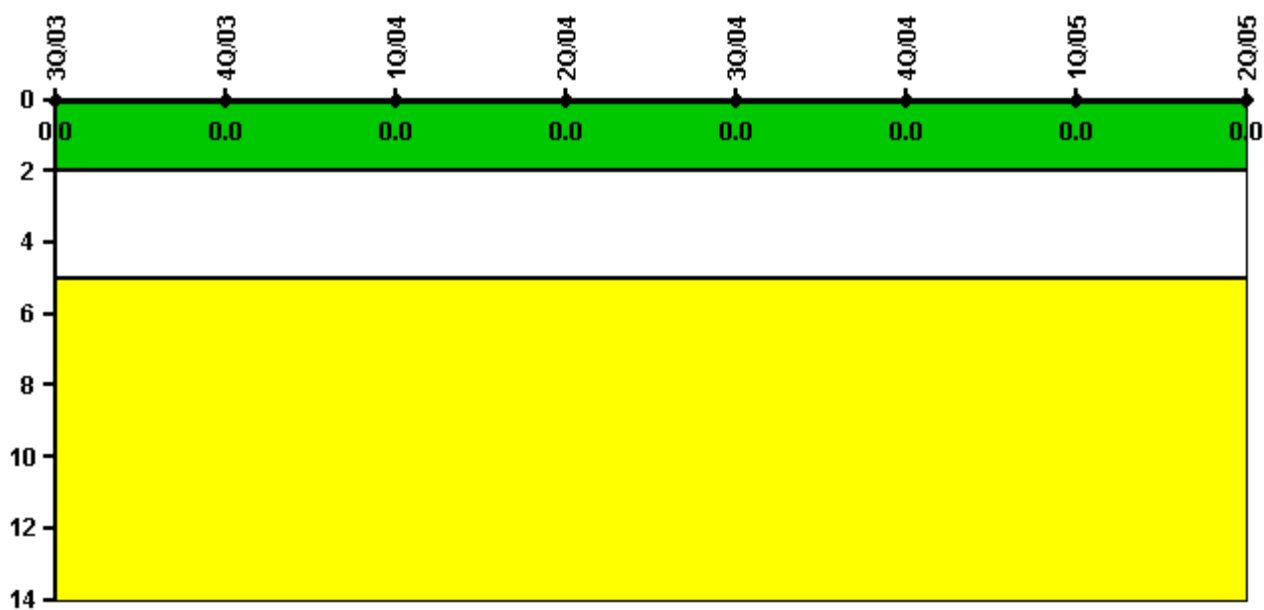
Thresholds: White < 94.0% Yellow < 90.0%

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



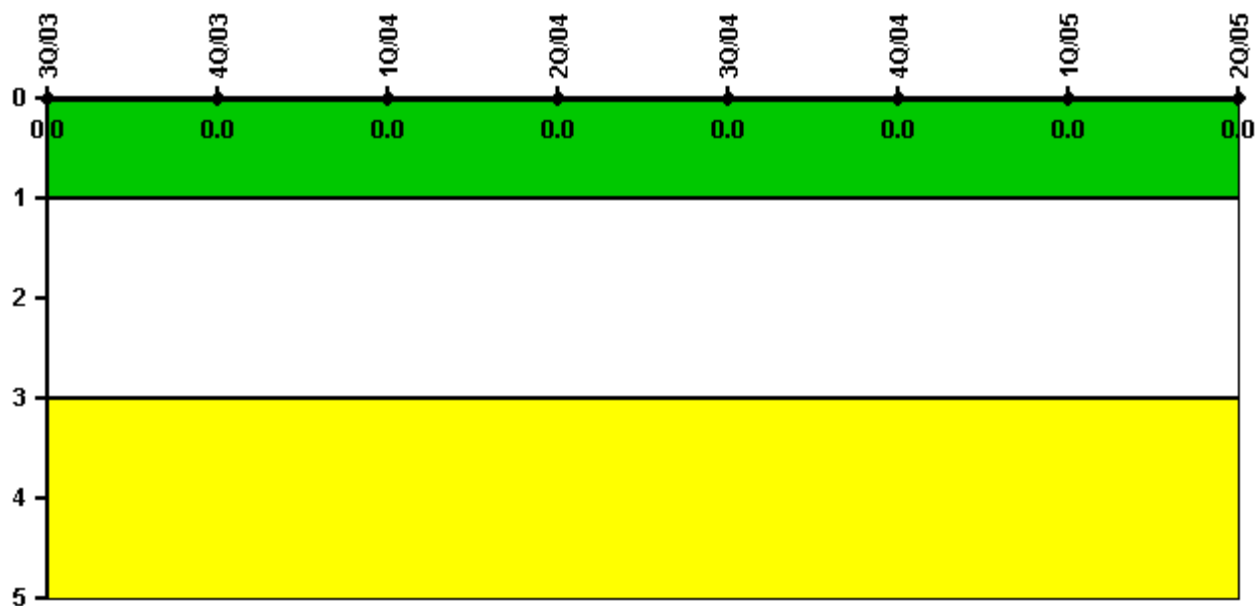
Thresholds: White > 2.0 Yellow > 5.0

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.

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

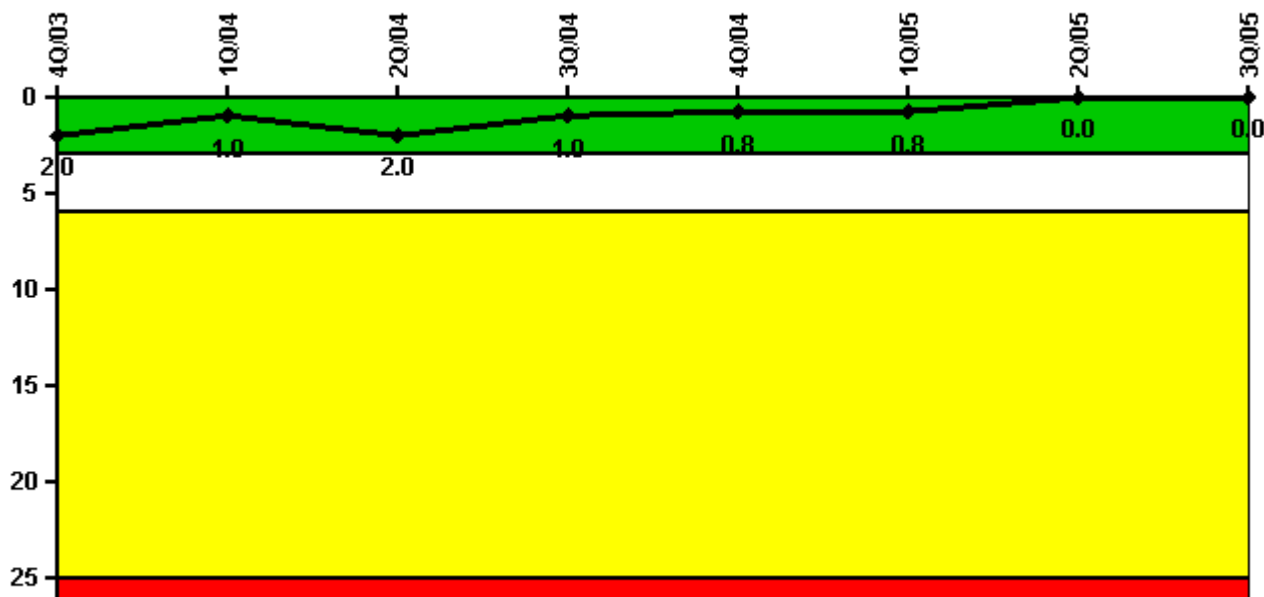
Last Modified: August 3, 2005

Surry 2

3Q/2005 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



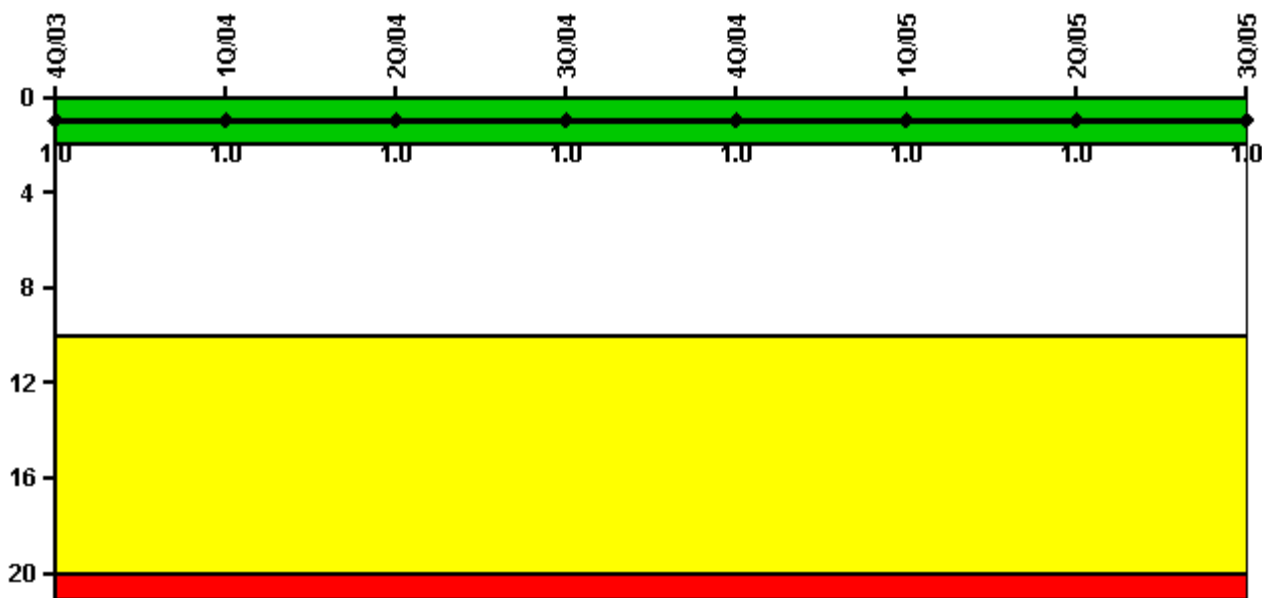
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	885.3	2184.0	2028.5	2208.0	2209.0	2160.0	1505.8	2208.0
Indicator value	2.0	1.0	2.0	1.0	0.8	0.8	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



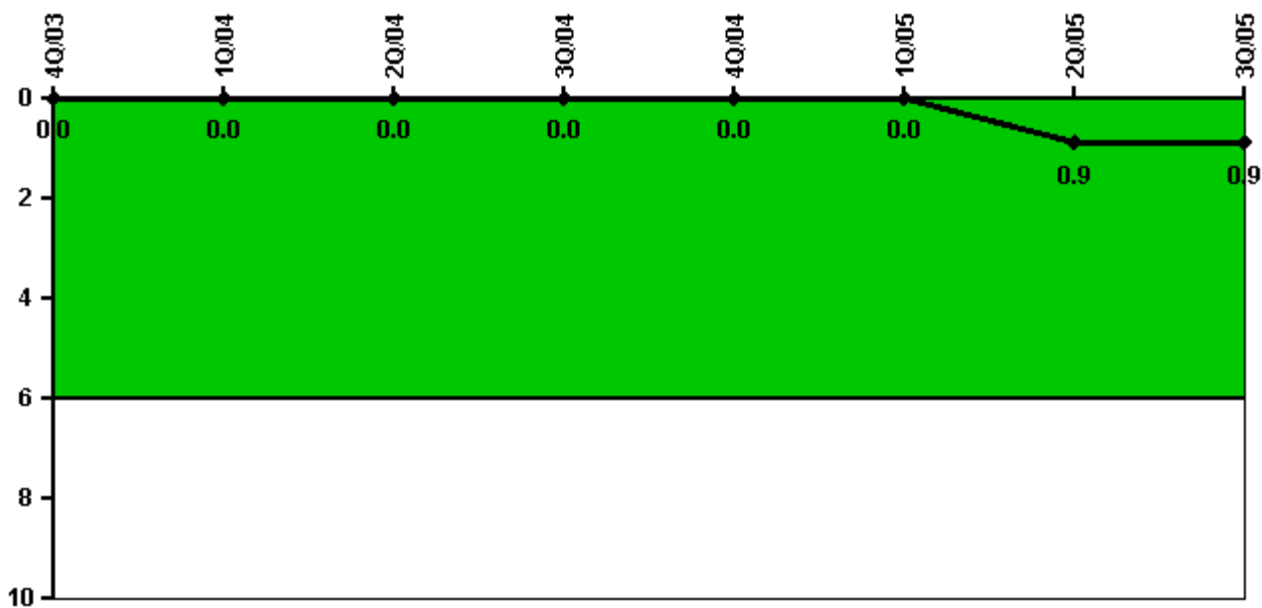
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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



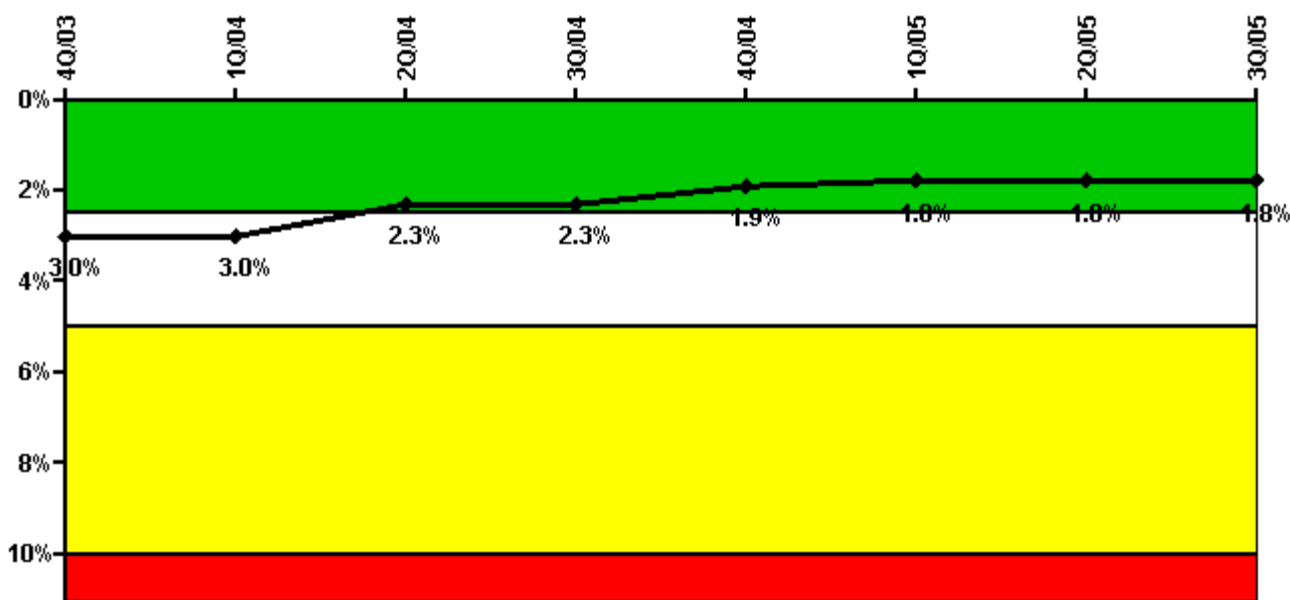
Thresholds: White > 6.0

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	0	0	0	0	0	1.0	0
Critical hours	885.3	2184.0	2028.5	2208.0	2209.0	2160.0	1505.8	2208.0
Indicator value	0	0	0	0	0	0	0.9	0.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



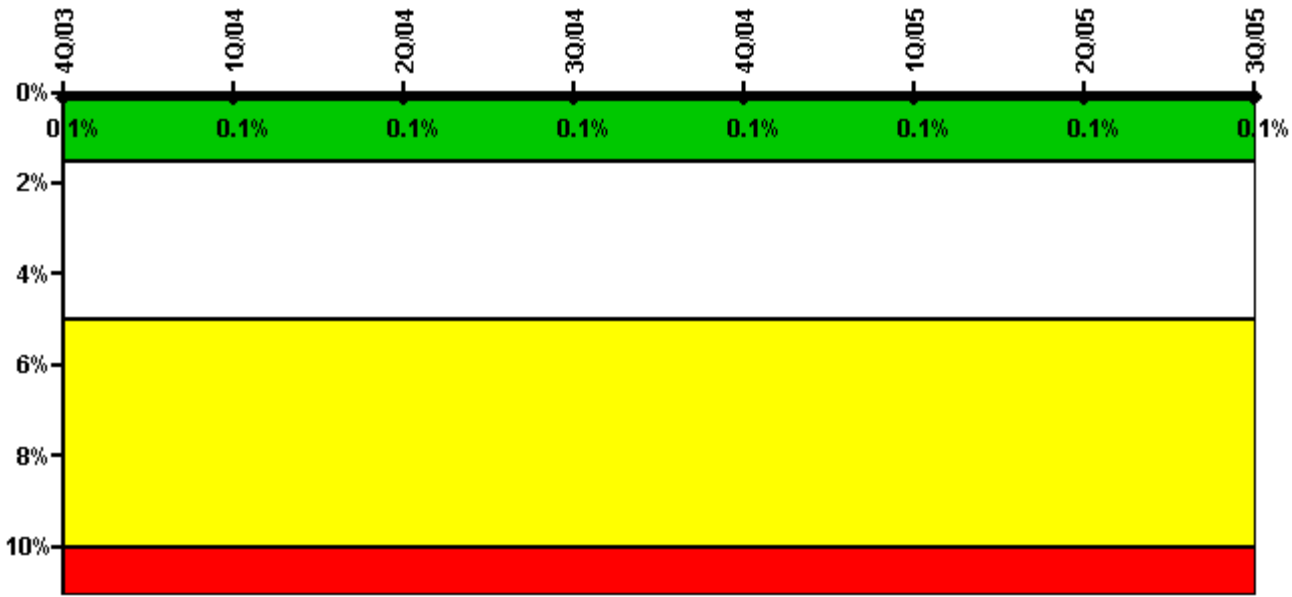
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	6.87	17.66	14.02	20.96	12.07	11.62	7.93	8.50
Unplanned unavailable hours	0	1.38	2.67	18.87	23.40	0	15.78	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1215.90	2184.00	2112.92	2208.00	2209.00	2160.00	1554.45	2208.00
Train 2								
Planned unavailable hours	8.92	21.35	18.77	21.80	47.30	11.99	7.54	24.07
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	1215.90	2184.00	2112.92	2208.00	2209.00	2160.00	1554.45	2208.00
Indicator value	3.0%	3.0%	2.3%	2.3%	1.9%	1.8%	1.8%	1.8%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



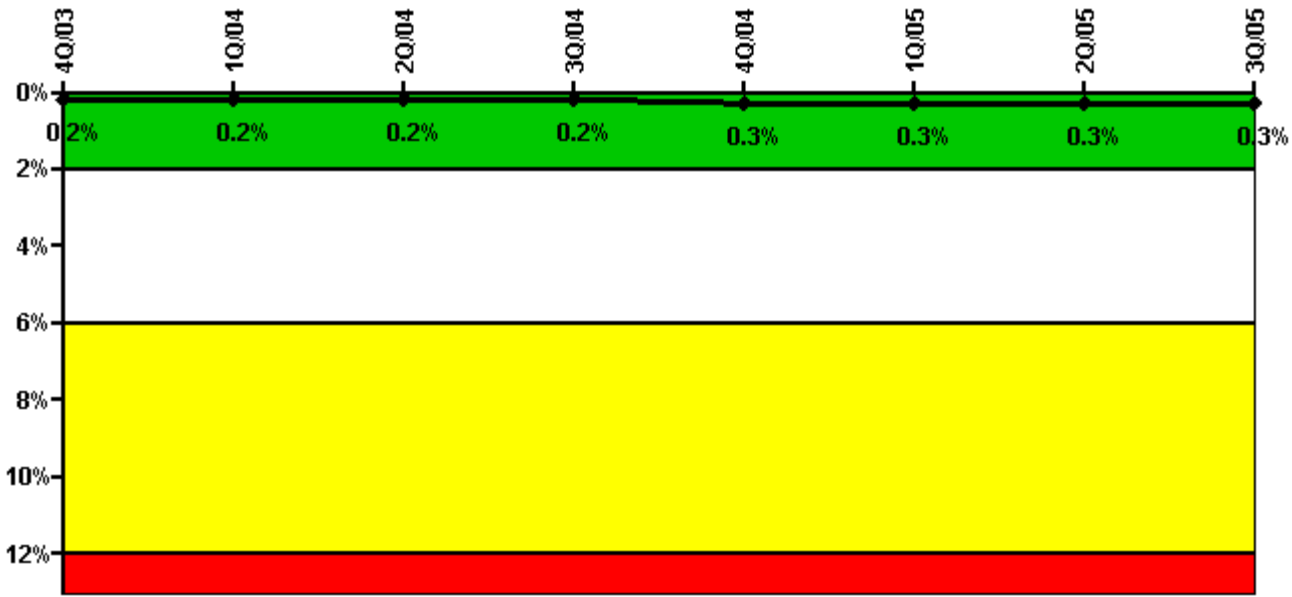
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	0	6.35	1.38	1.20	0	1.58	0	3.50
Unplanned unavailable hours	0	0.80	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	896.00	2184.00	2029.00	2208.00	2209.00	2160.00	1506.80	2208.00
Train 2								
Planned unavailable hours	0	2.71	3.04	6.96	1.38	4.34	1.15	2.80
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	896.00	2184.00	2029.00	2208.00	2209.00	2160.00	1506.80	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)



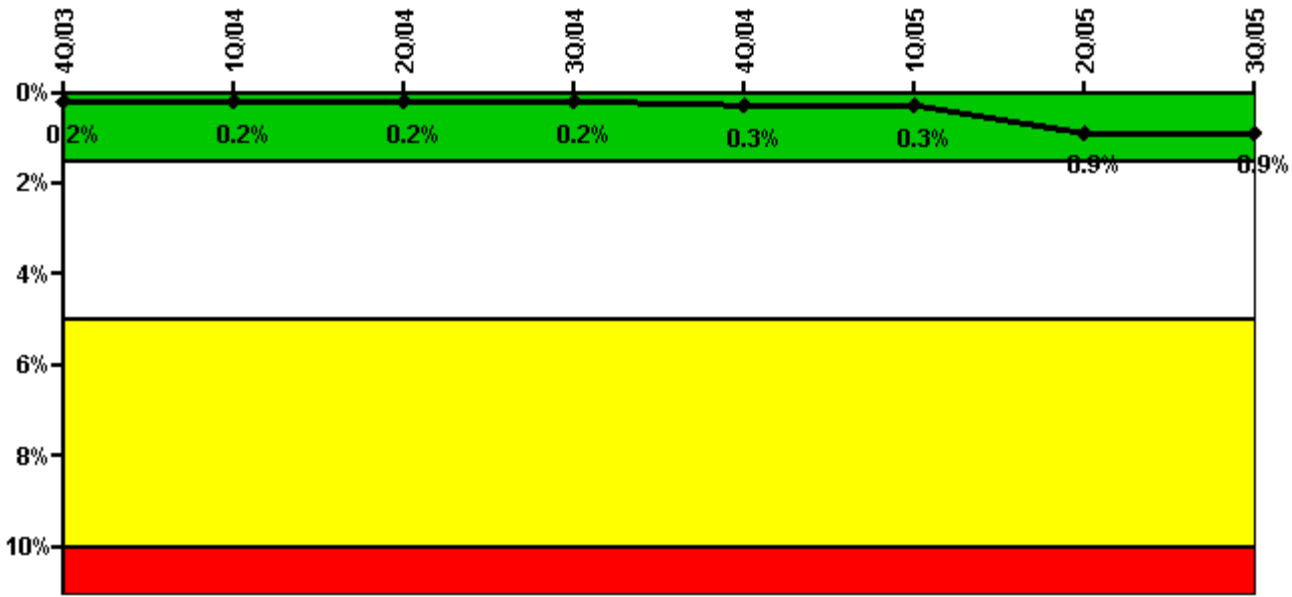
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	9.15	0.73	0	1.33	3.28	10.80	0	0.82
Unplanned unavailable hours	0	0	3.52	0	0	0	0	9.45
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	896.00	2184.00	2113.00	2208.00	2209.00	2160.00	1554.40	2208.00
Train 2								
Planned unavailable hours	0	10.00	2.15	1.07	11.55	1.30	1.60	0.83
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	896.00	2184.00	2113.00	2208.00	2209.00	2160.00	1554.40	2208.00
Train 3								
Planned unavailable hours	0.90	1.88	5.07	17.37	2.85	23.79	0	6.73
Unplanned unavailable hours	0	0	8.82	0	47.50	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	680.00	2184.00	2041.70	2208.00	2209.00	2160.00	1551.30	2208.00
Indicator value	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



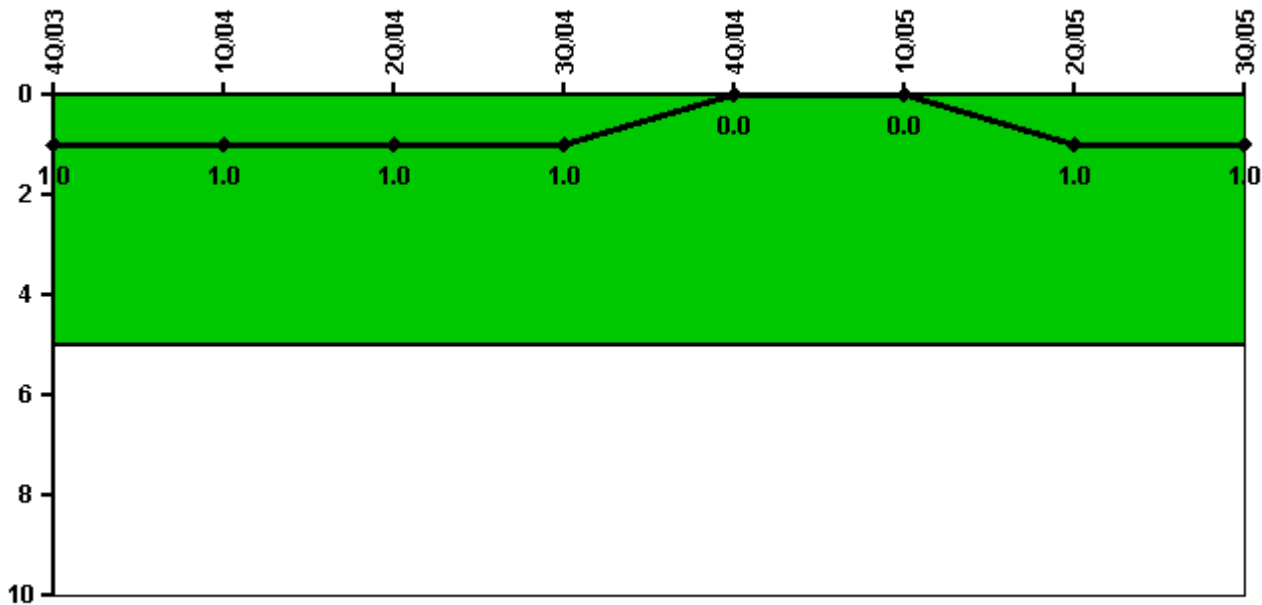
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	19.70	9.19	0.15	14.68	0.82	0.53	7.78	7.92
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1439.00	2184.00	2029.00	2208.00	2209.00	2160.00	1506.80	2208.00
Train 2								
Planned unavailable hours	19.70	15.25	13.79	0.75	0.73	1.66	9.69	0.34
Unplanned unavailable hours	0	22.77	0	0	66.70	0	0	0
Fault exposure hours	0	0	0	0	0	0	537.70	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1439.00	2184.00	2029.00	2208.00	2209.00	2160.00	1506.80	2208.00
Train 3								
Planned unavailable hours	20.10	0	0	0	0	0	58.30	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	1687.00	2184.00	2183.00	2208.00	2209.00	2160.00	1975.30	2208.00
Train 4								
Planned unavailable hours	0	0	0	0	0	0	9.28	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	1687.00	2184.00	2183.00	2208.00	2209.00	2160.00	1975.30	2208.00
Indicator value	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%	0.9%	0.9%

Licensee Comments: none

Safety System Functional Failures (PWR)



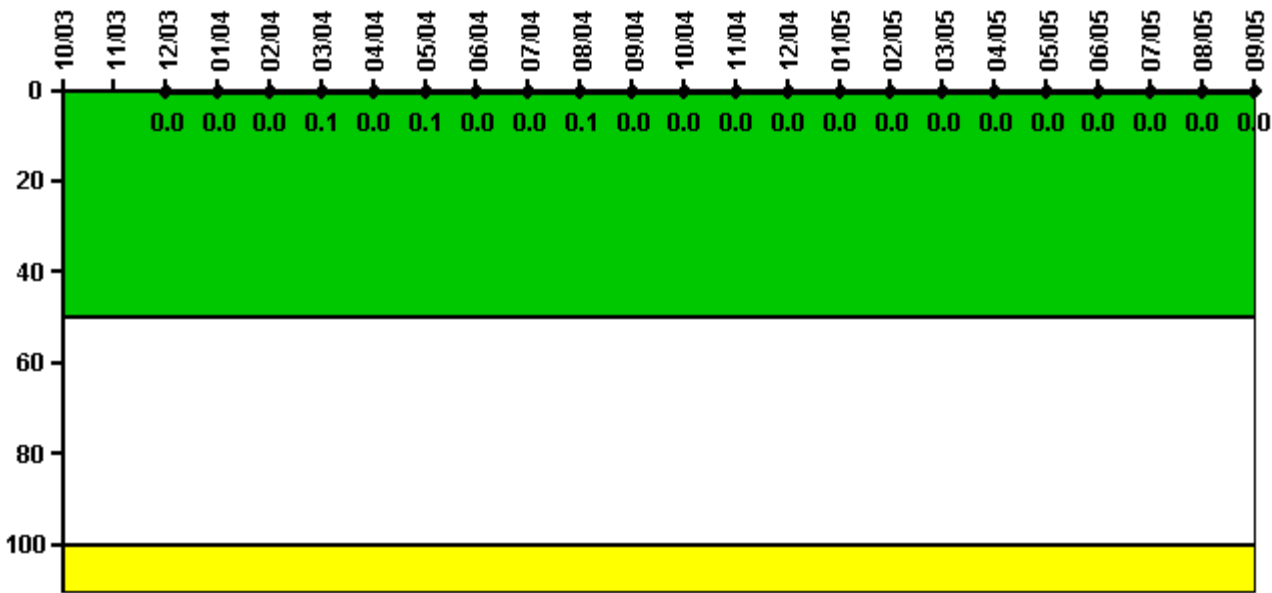
Thresholds: White > 5.0

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

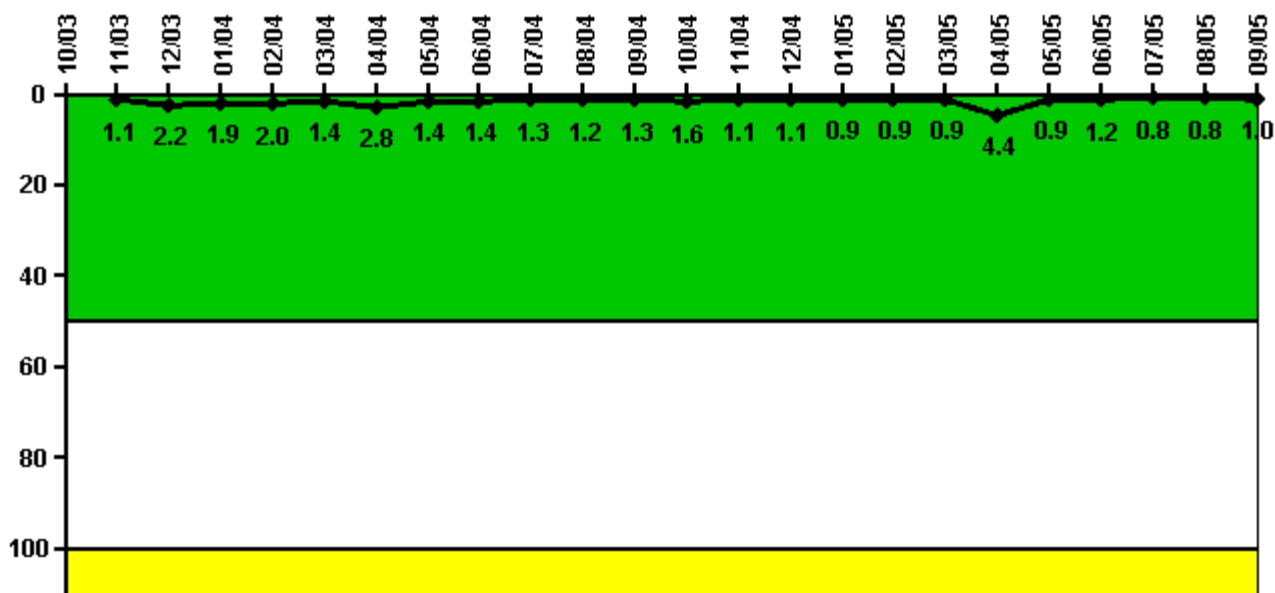
Notes

Reactor Coolant System Activity	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum activity	N/A	N/A	0.000318	0.000338	0.000316	0.000544	0.000345	0.000532	0.000437	0.000343	0.000807	0.000468
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	N/A	0	0	0	0.1	0	0.1	0	0	0.1	0

Reactor Coolant System Activity	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum activity	0.000352	0.000387	0.000401	0.000390	0.000395	0.000403	0.000433	0.000313	0.000404	0.000334	0.000326	0.000323
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



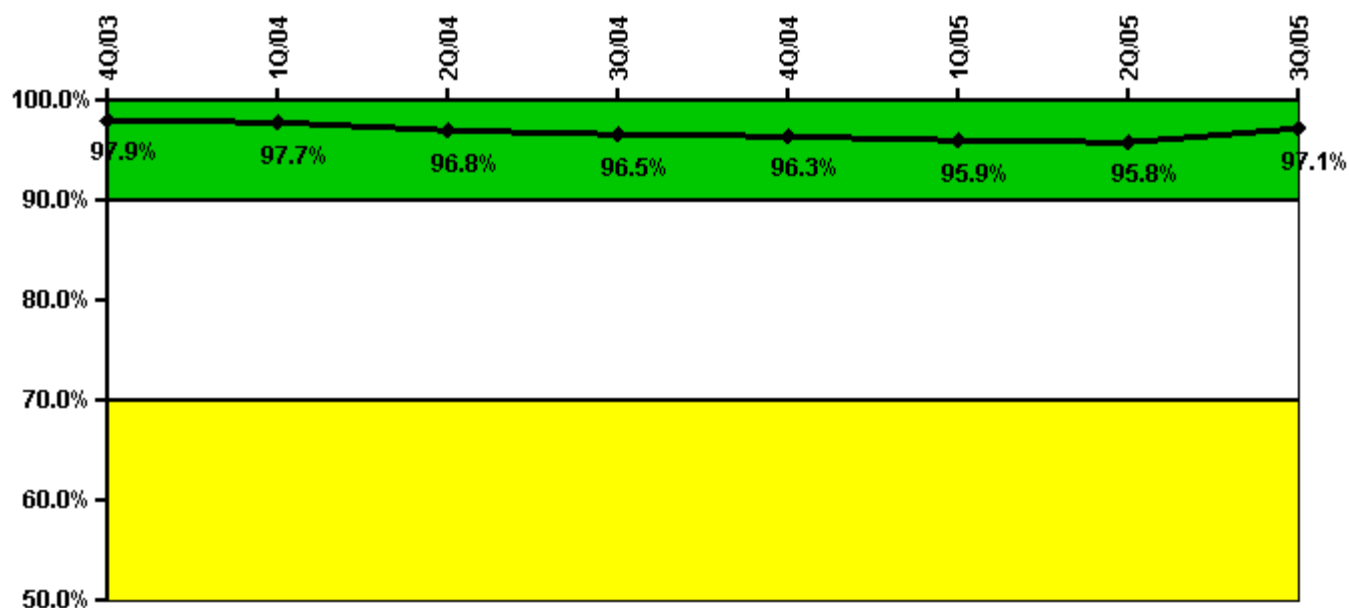
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	N/A	0.110	0.220	0.190	0.200	0.140	0.280	0.140	0.140	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	N/A	1.1	2.2	1.9	2.0	1.4	2.8	1.4	1.4	1.3	1.2	1.3
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	0.160	0.110	0.110	0.090	0.090	0.090	0.440	0.090	0.120	0.080	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	1.6	1.1	1.1	0.9	0.9	0.9	4.4	0.9	1.2	0.8	0.8	1.0

Licensee Comments: none

Drill/Exercise Performance



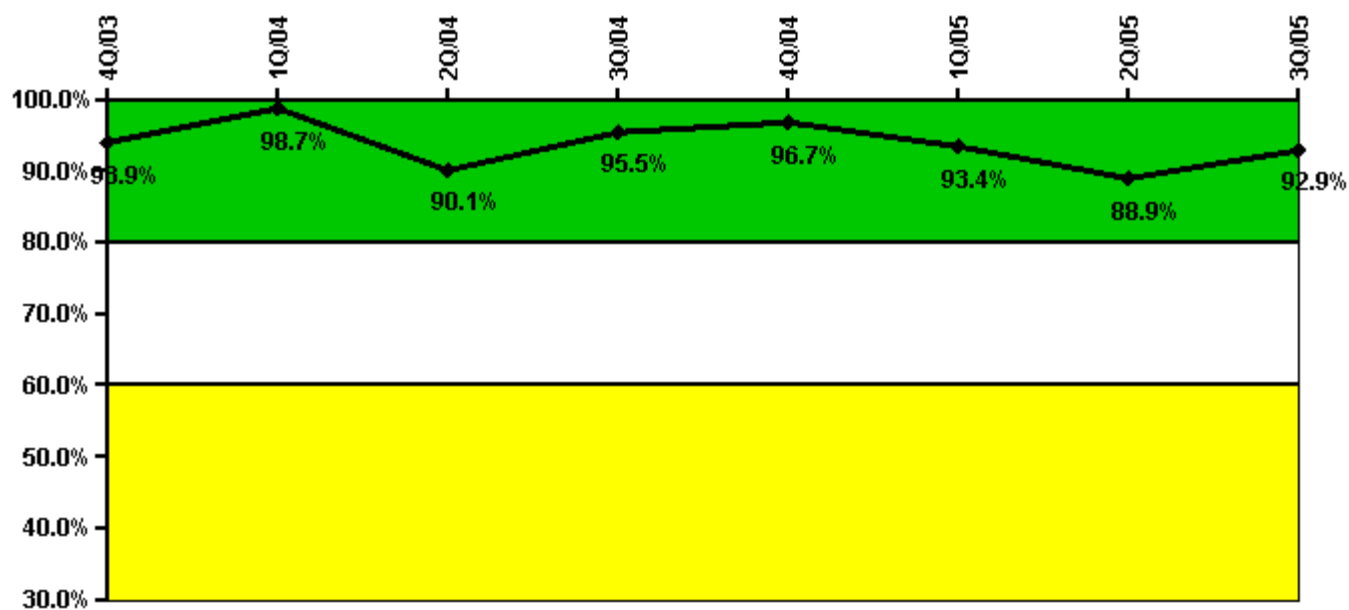
Thresholds: White < 90.0% Yellow < 70.0%

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



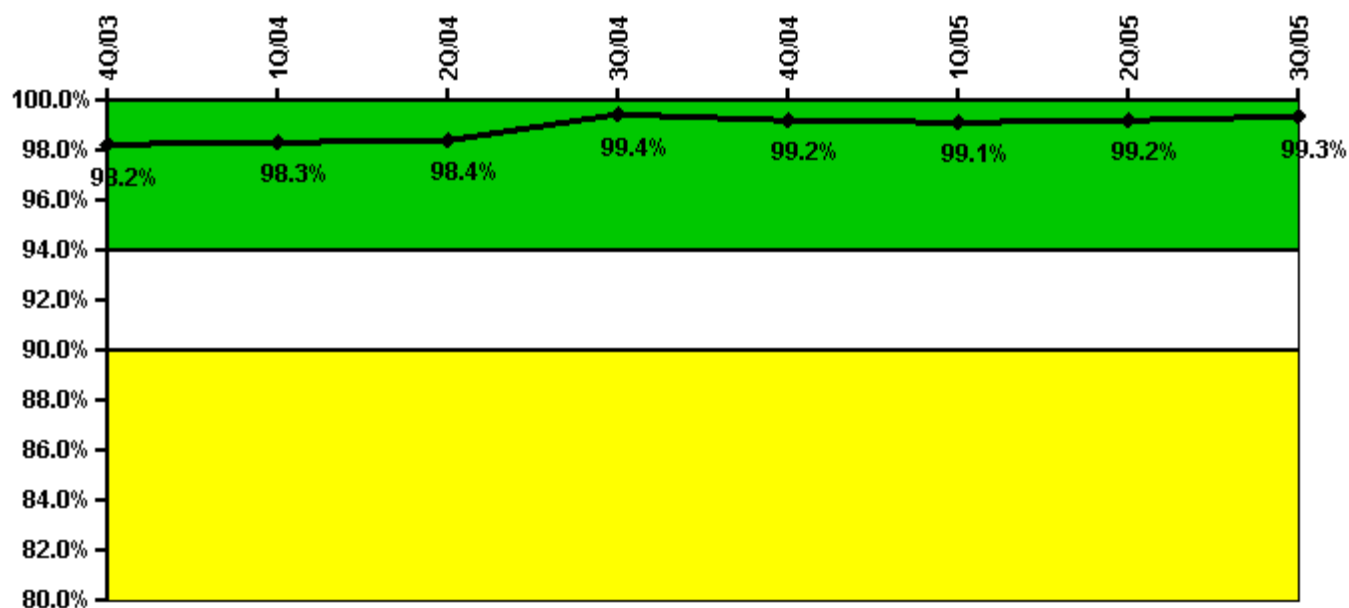
Thresholds: White < 80.0% Yellow < 60.0%

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



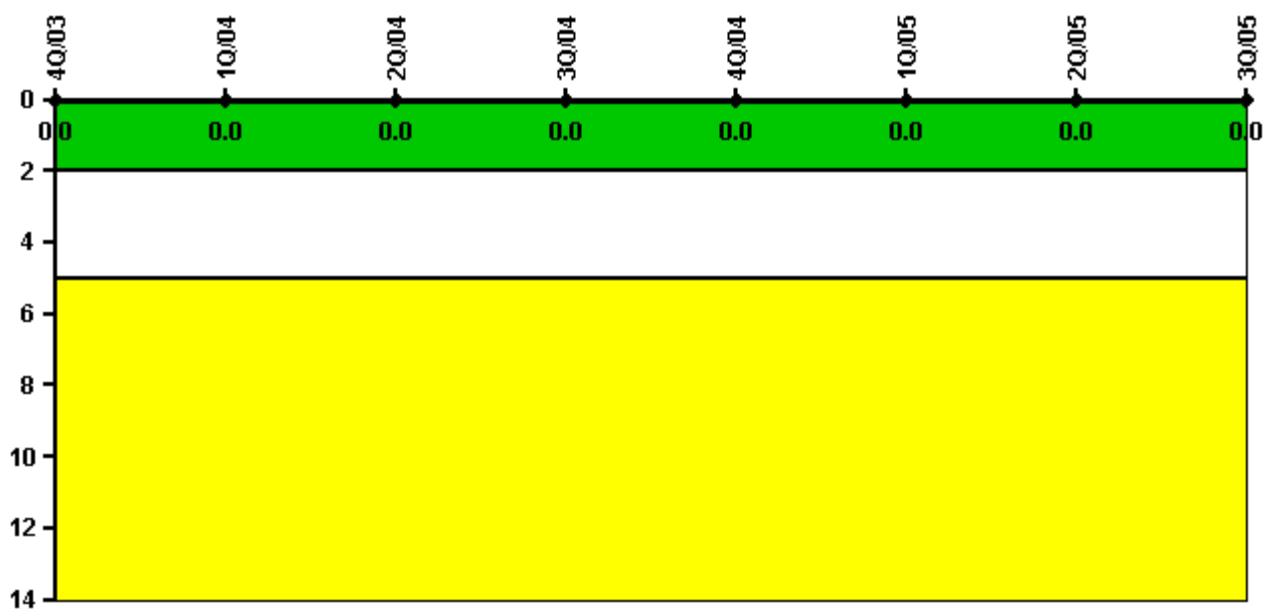
Thresholds: White < 94.0% Yellow < 90.0%

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



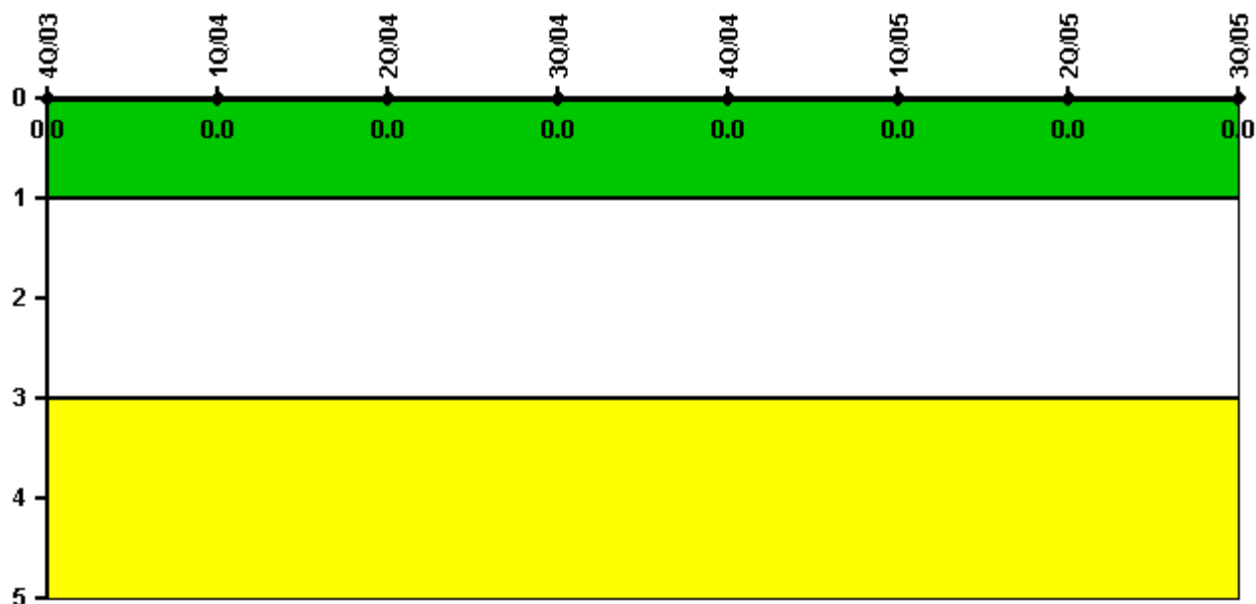
Thresholds: White > 2.0 Yellow > 5.0

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 2

4Q/2005 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



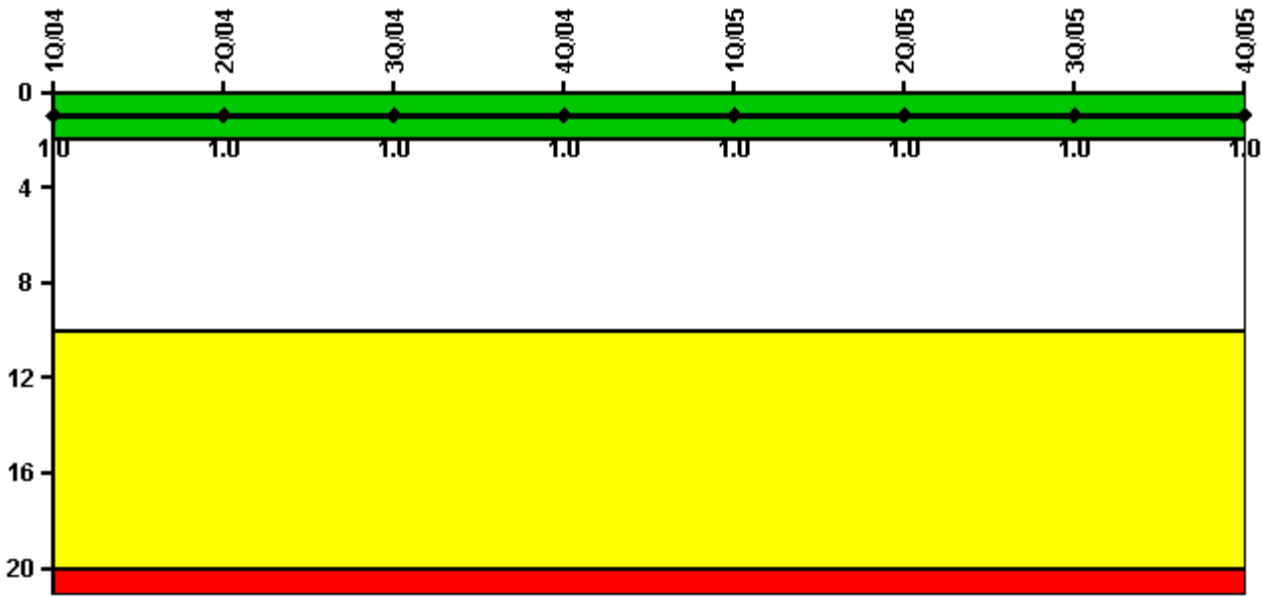
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2184.0	2028.5	2208.0	2209.0	2160.0	1505.8	2208.0	2209.0
Indicator value	1.0	2.0	1.0	0.8	0.8	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



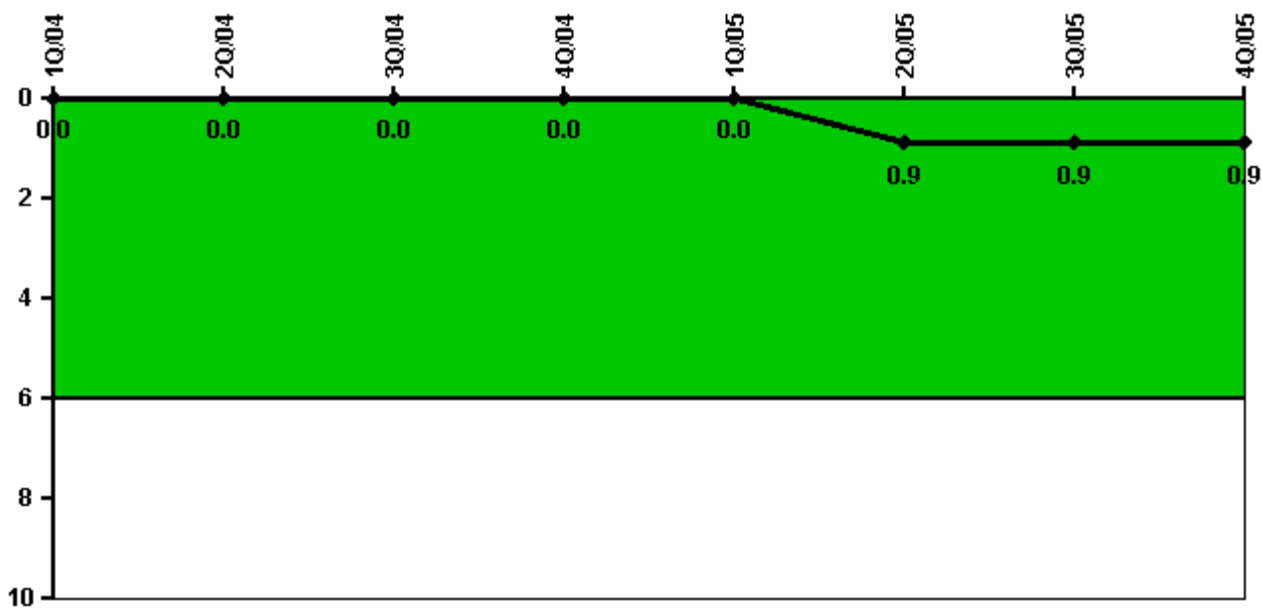
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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



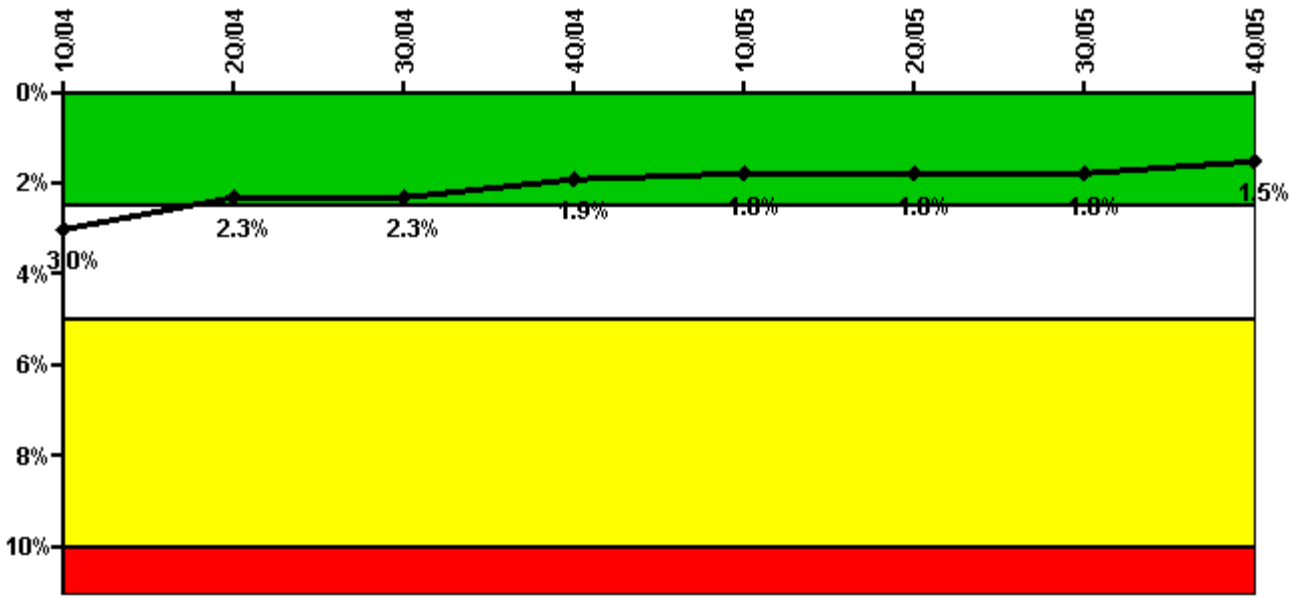
Thresholds: White > 6.0

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	0	0	0	0	0	1.0	0	0
Critical hours	2184.0	2028.5	2208.0	2209.0	2160.0	1505.8	2208.0	2209.0
Indicator value	0	0	0	0	0	0.9	0.9	0.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



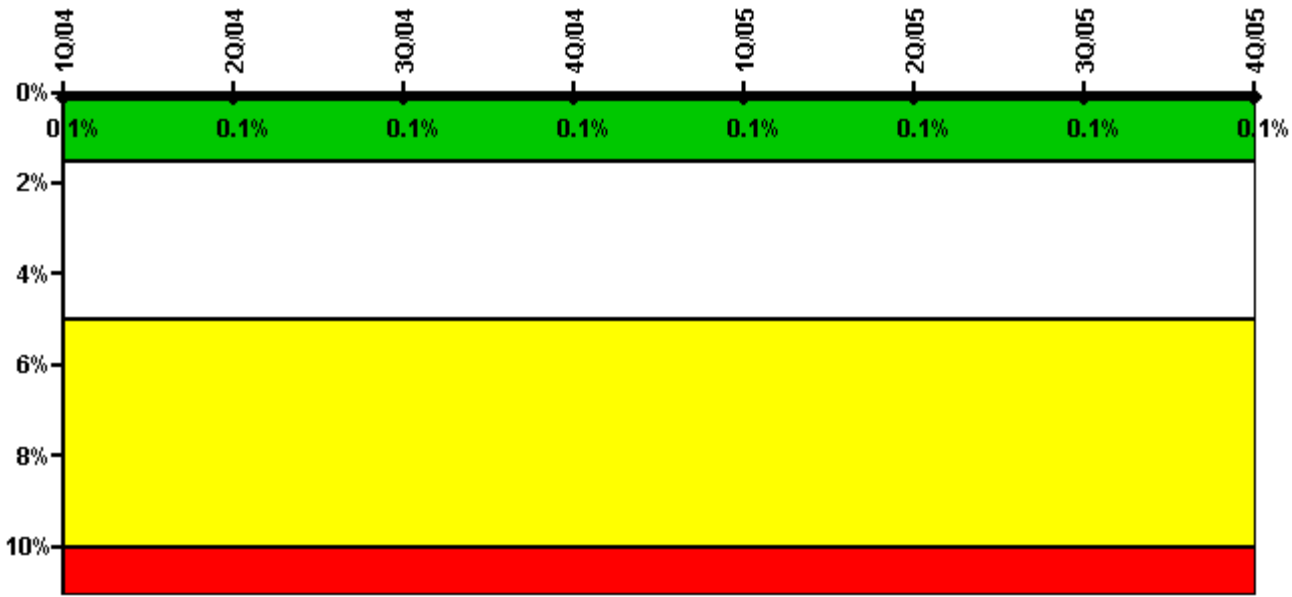
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	17.66	14.02	20.96	12.07	11.62	7.93	8.50	26.00
Unplanned unavailable hours	1.38	2.67	18.87	23.40	0	15.78	0	18.23
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2112.92	2208.00	2209.00	2160.00	1554.45	2208.00	2209.00
Train 2								
Planned unavailable hours	21.35	18.77	21.80	47.30	11.99	7.54	24.07	9.08
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	2112.92	2208.00	2209.00	2160.00	1554.45	2208.00	2209.00
Indicator value	3.0%	2.3%	2.3%	1.9%	1.8%	1.8%	1.8%	1.5%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



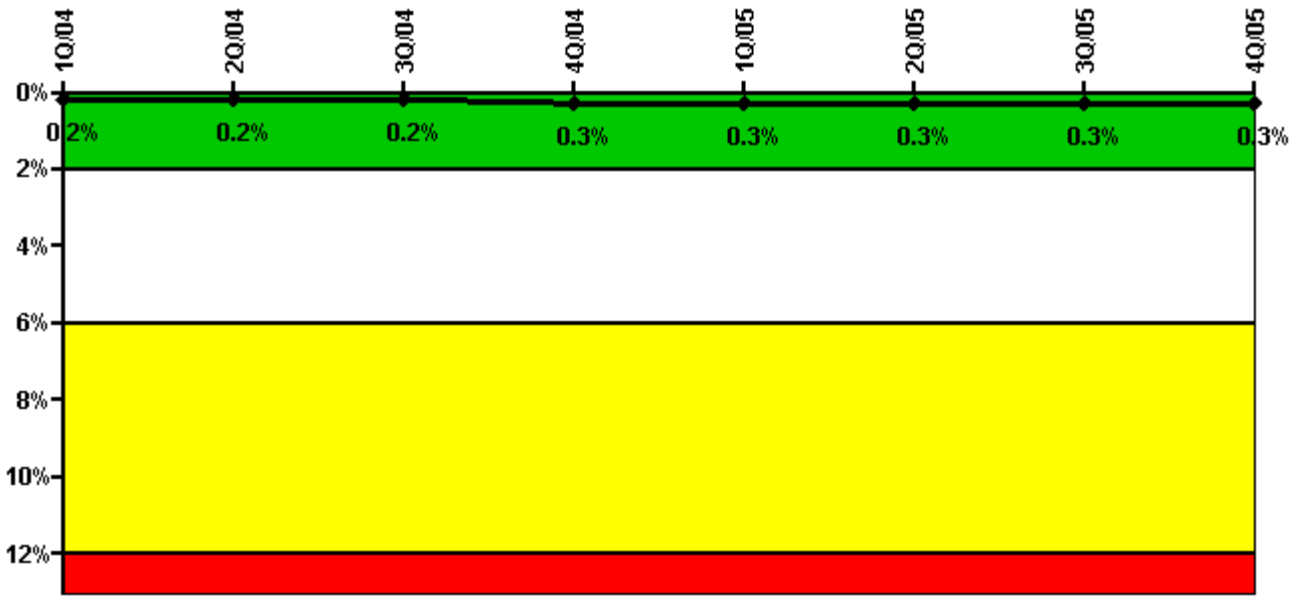
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	6.35	1.38	1.20	0	1.58	0	3.50	1.03
Unplanned unavailable hours	0.80	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	2184.00	2029.00	2208.00	2209.00	2160.00	1506.80	2208.00	2209.00
Train 2								
Planned unavailable hours	2.71	3.04	6.96	1.38	4.34	1.15	2.80	9.37
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2029.00	2208.00	2209.00	2160.00	1506.80	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)



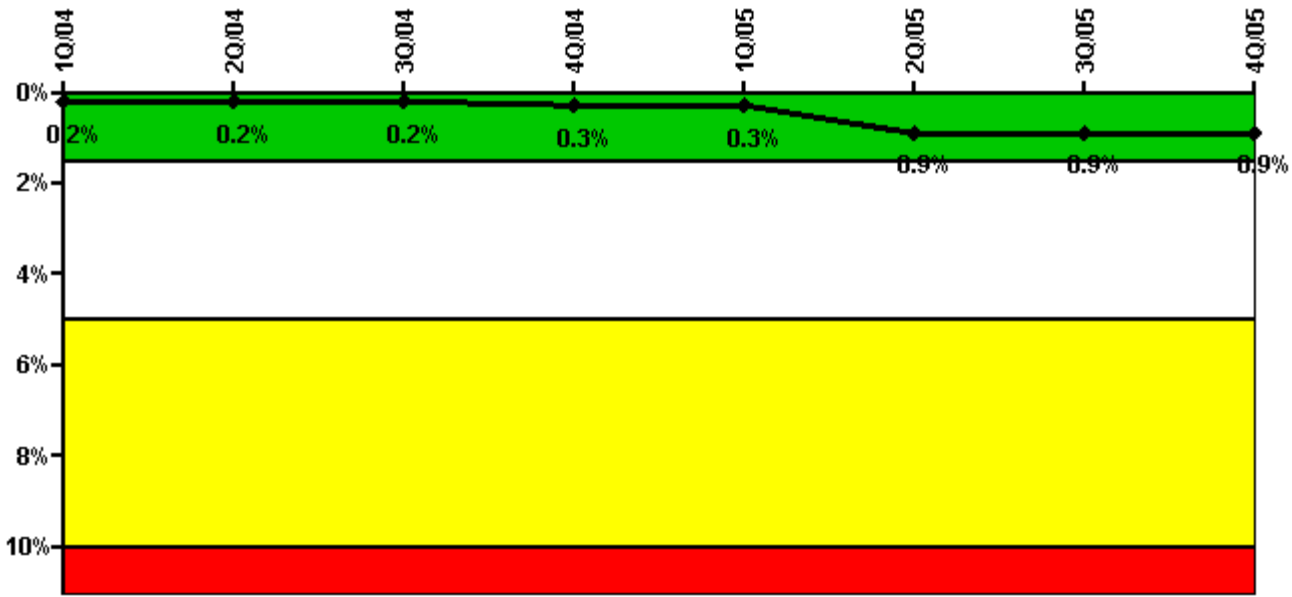
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	0.73	0	1.33	3.28	10.80	0	0.82	0.72
Unplanned unavailable hours	0	3.52	0	0	0	0	9.45	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2113.00	2208.00	2209.00	2160.00	1554.40	2208.00	2209.00
Train 2								
Planned unavailable hours	10.00	2.15	1.07	11.55	1.30	1.60	0.83	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	2113.00	2208.00	2209.00	2160.00	1554.40	2208.00	2209.00
Train 3								
Planned unavailable hours	1.88	5.07	17.37	2.85	23.79	0	6.73	11.78
Unplanned unavailable hours	0	8.82	0	47.50	0	0	0	0
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	2041.70	2208.00	2209.00	2160.00	1551.30	2208.00	2209.00
Indicator value	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



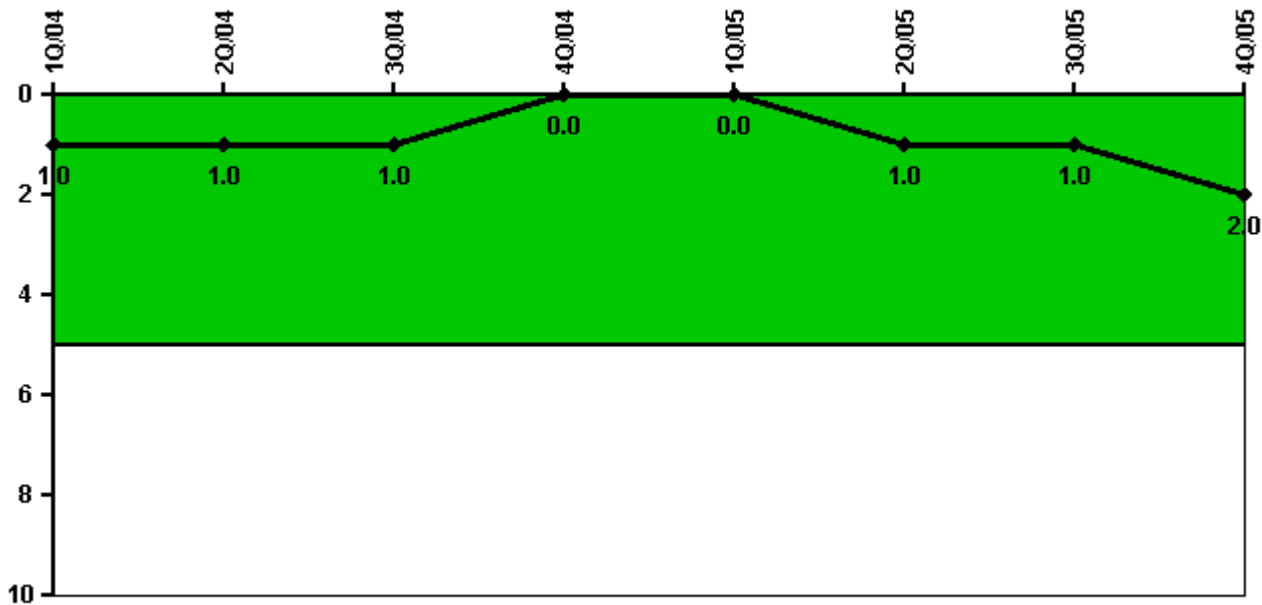
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	9.19	0.15	14.68	0.82	0.53	7.78	7.92	1.37
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2029.00	2208.00	2209.00	2160.00	1506.80	2208.00	2209.00
Train 2								
Planned unavailable hours	15.25	13.79	0.75	0.73	1.66	9.69	0.34	0.52
Unplanned unavailable hours	22.77	0	0	66.70	0	0	0	0
Fault exposure hours	0	0	0	0	0	537.70	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2029.00	2208.00	2209.00	2160.00	1506.80	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	0	0	0	58.30	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	1975.30	2208.00	2209.00
Train 4								
Planned unavailable hours	0	0	0	0	0	9.28	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	1975.30	2208.00	2209.00
Indicator value	0.2%	0.2%	0.2%	0.3%	0.3%	0.9%	0.9%	0.9%

Licensee Comments: none

Safety System Functional Failures (PWR)



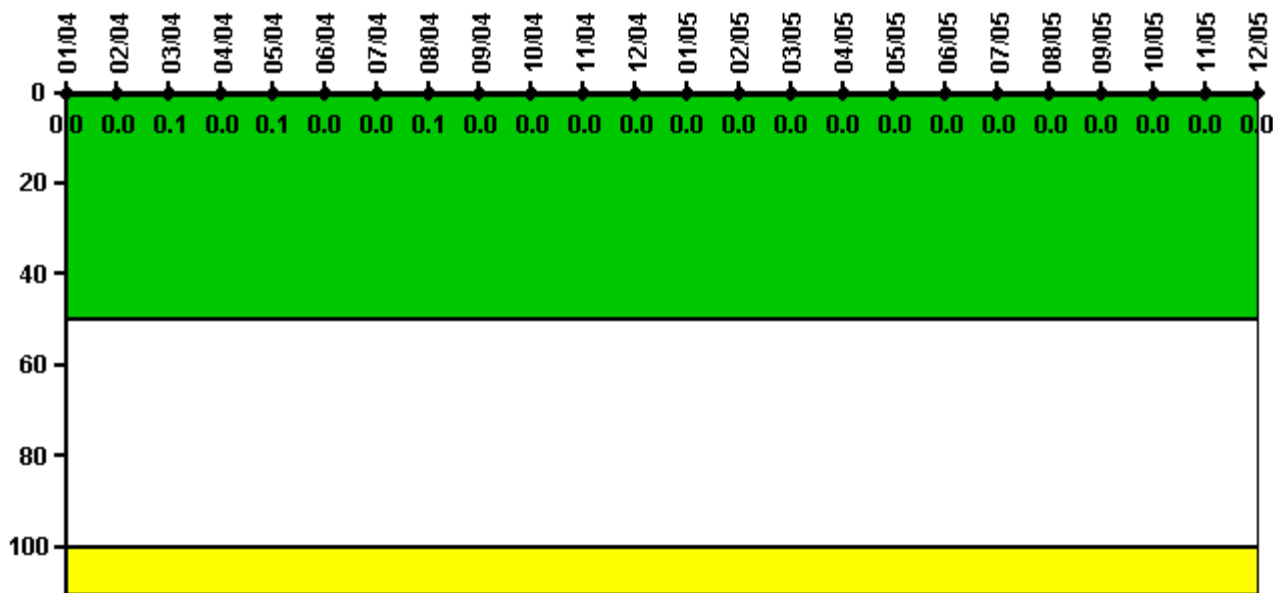
Thresholds: White > 5.0

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

Licensee Comments: none

Reactor Coolant System Activity



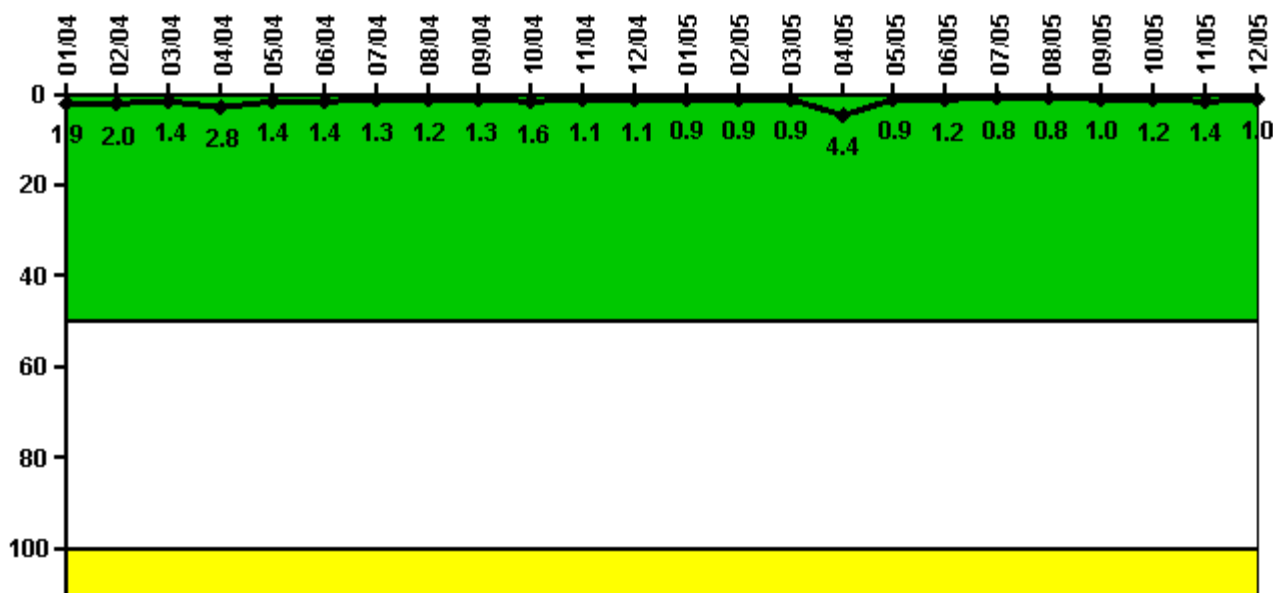
Thresholds: White > 50.0 Yellow > 100.0

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	0.000338	0.000316	0.000544	0.000345	0.000532	0.000437	0.000343	0.000807	0.000468	0.000352	0.000387	0.000401
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0.1	0	0.1	0	0	0.1	0	0	0	0
Reactor Coolant System Activity	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
Maximum activity	0.000390	0.000395	0.000403	0.000433	0.000313	0.000404	0.000334	0.000326	0.000323	0.000395	0.000358	0.000358
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



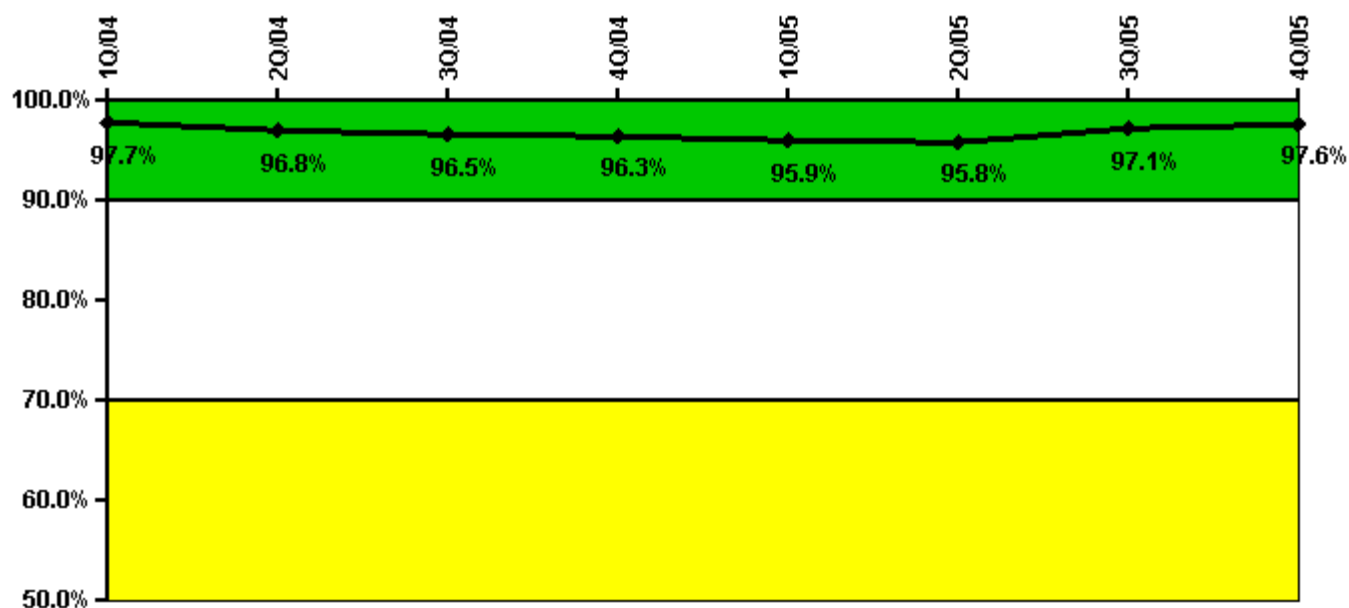
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum leakage	0.190	0.200	0.140	0.280	0.140	0.140	0.130	0.120	0.130	0.160	0.110	0.110
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.9	2.0	1.4	2.8	1.4	1.4	1.3	1.2	1.3	1.6	1.1	1.1
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	0.090	0.090	0.090	0.440	0.090	0.120	0.080	0.080	0.100	0.120	0.140	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	0.9	0.9	0.9	4.4	0.9	1.2	0.8	0.8	1.0	1.2	1.4	1.0

Licensee Comments: none

Drill/Exercise Performance



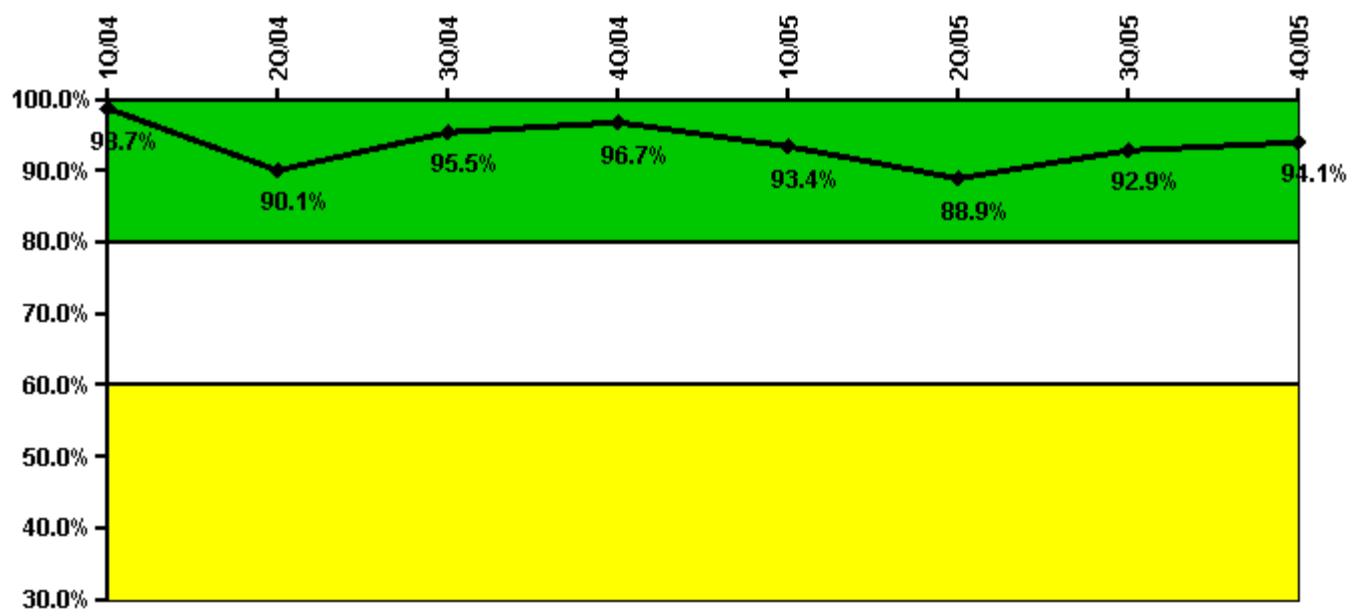
Thresholds: White < 90.0% Yellow < 70.0%

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



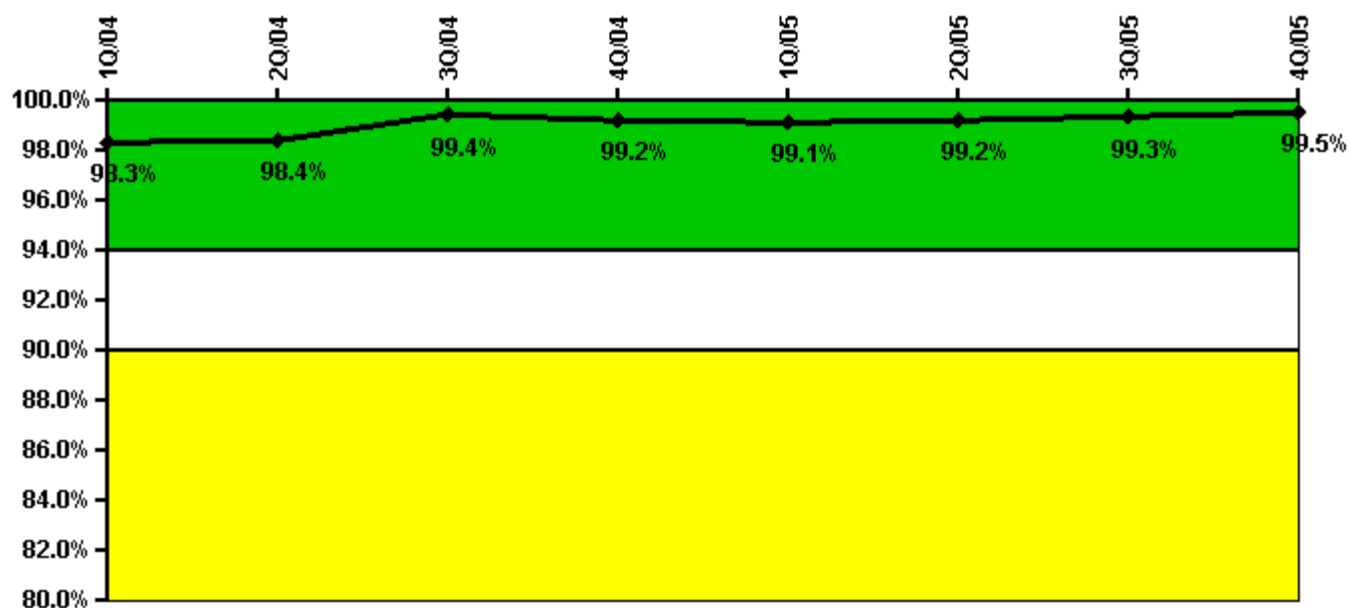
Thresholds: White < 80.0% Yellow < 60.0%

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



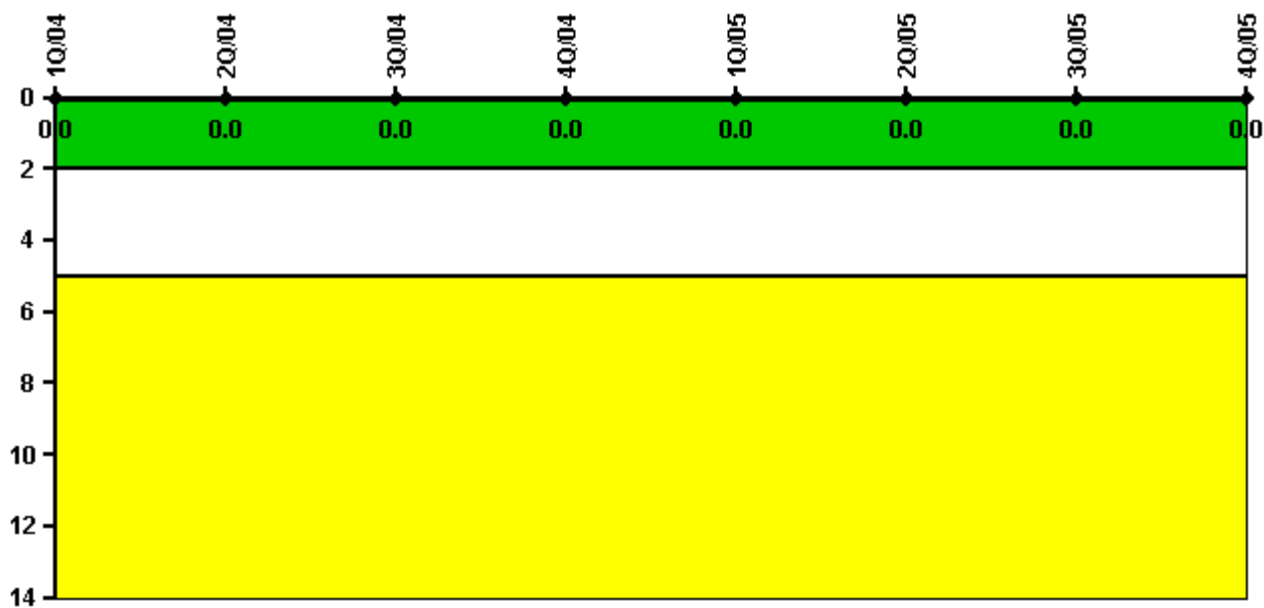
Thresholds: White < 94.0% Yellow < 90.0%

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



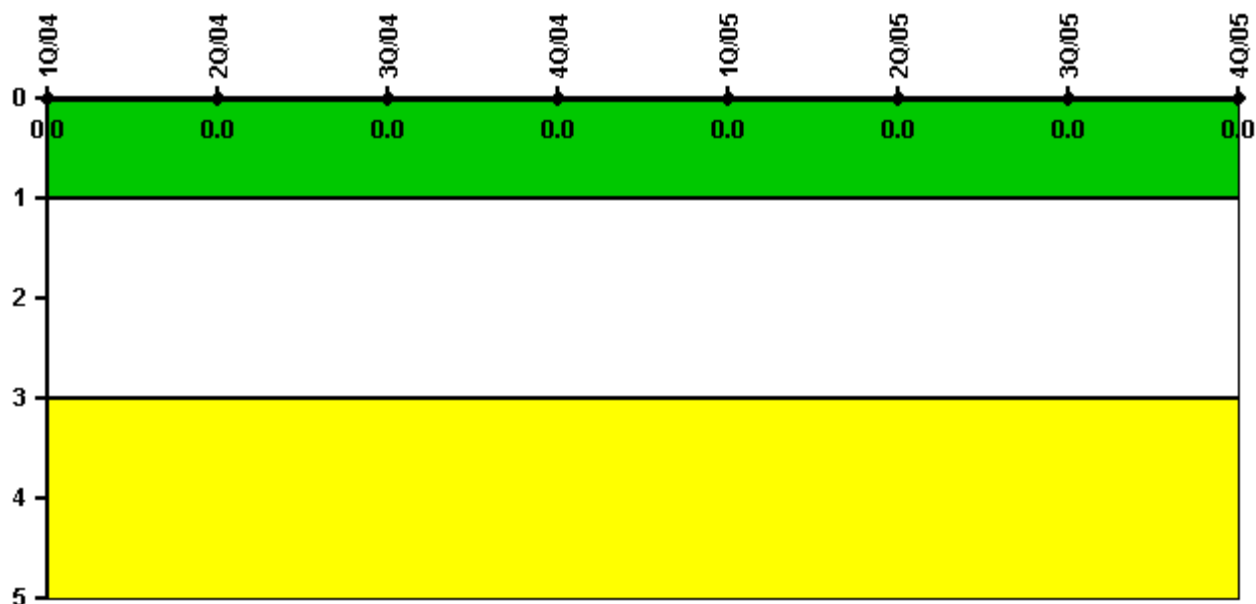
Thresholds: White > 2.0 Yellow > 5.0

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.

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

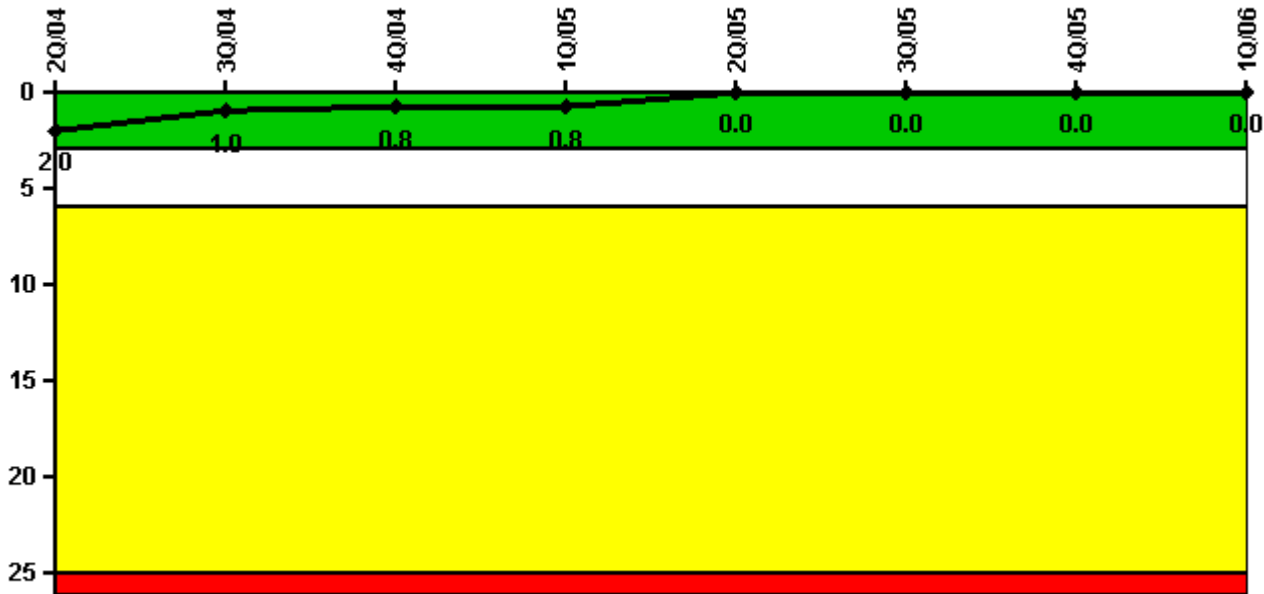
Last Modified: January 30, 2006

Surry 2

1Q/2006 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



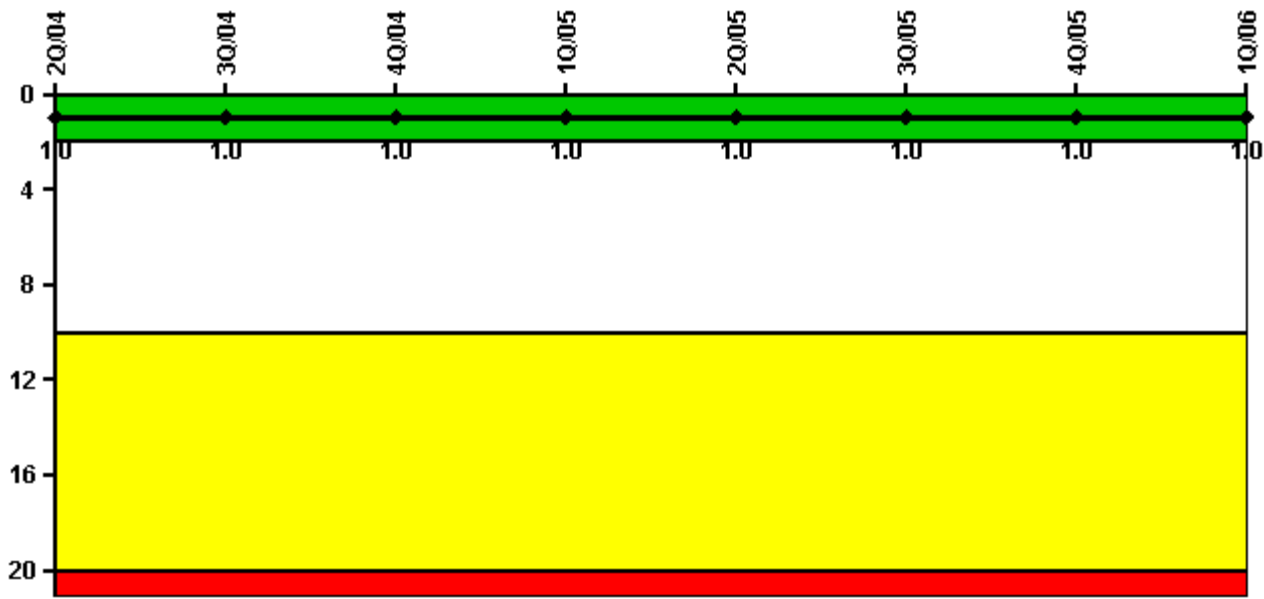
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2028.5	2208.0	2209.0	2160.0	1505.8	2208.0	2209.0	2160.0
Indicator value	2.0	1.0	0.8	0.8	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



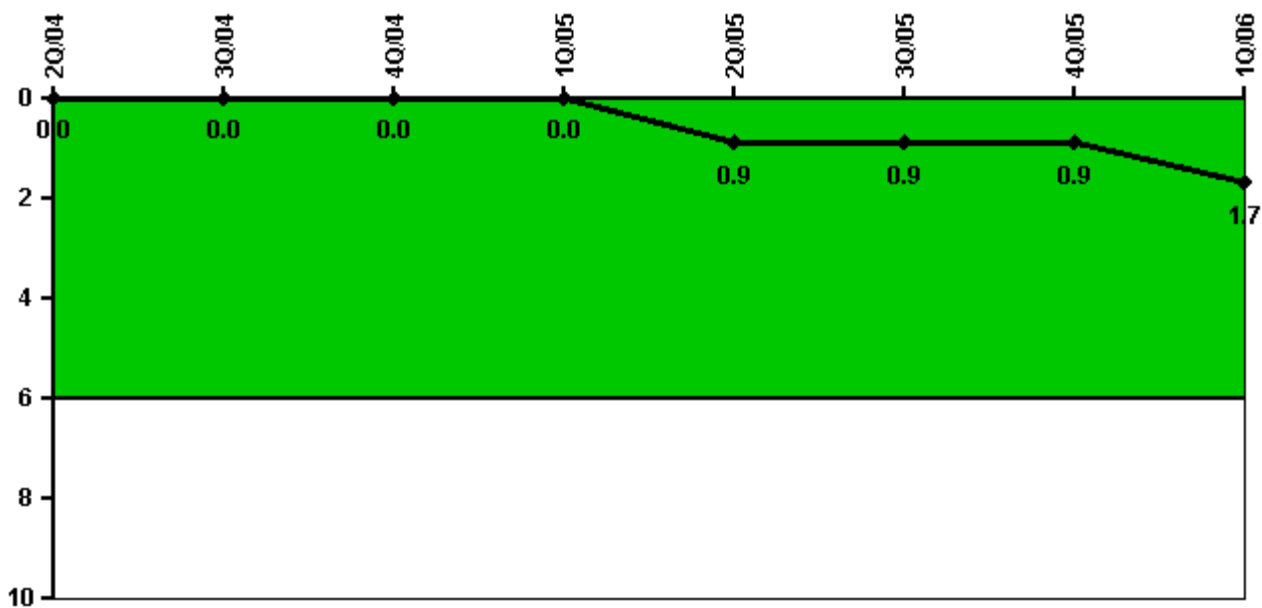
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



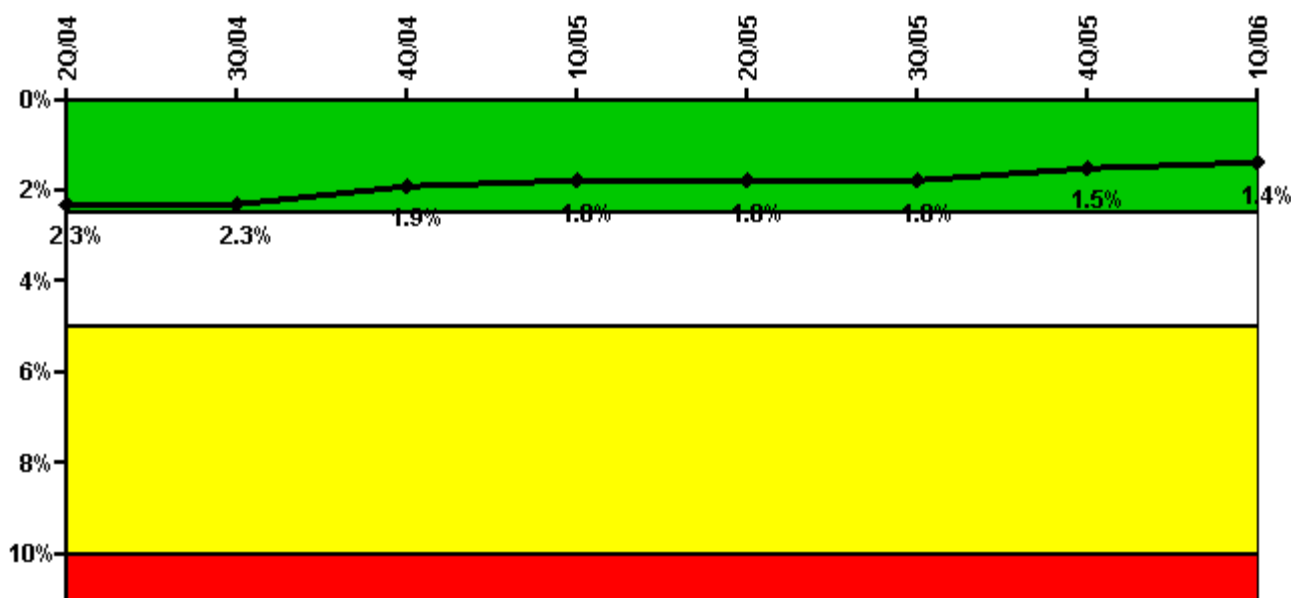
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned power changes	0	0	0	0	1.0	0	0	1.0
Critical hours	2028.5	2208.0	2209.0	2160.0	1505.8	2208.0	2209.0	2160.0
Indicator value	0	0	0	0	0.9	0.9	0.9	1.7

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



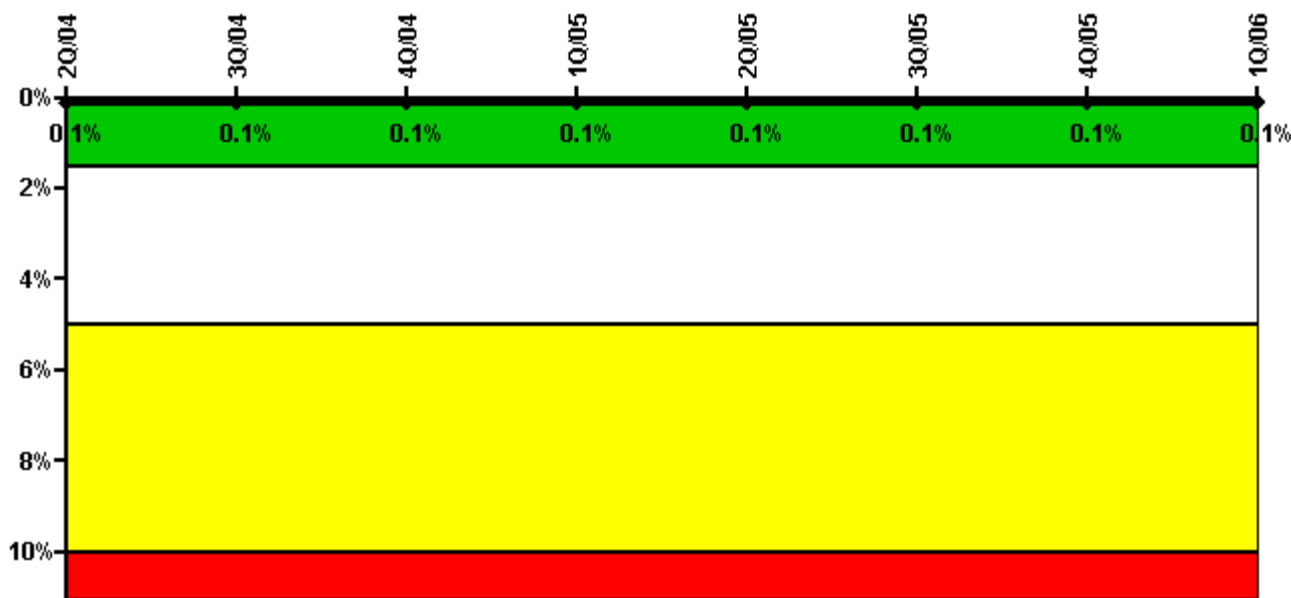
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	14.02	20.96	12.07	11.62	7.93	8.50	26.00	13.20
Unplanned unavailable hours	2.67	18.87	23.40	0	15.78	0	18.23	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	2112.92	2208.00	2209.00	2160.00	1554.45	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	18.77	21.80	47.30	11.99	7.54	24.07	9.08	17.34
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	2112.92	2208.00	2209.00	2160.00	1554.45	2208.00	2209.00	2160.00
Indicator value	2.3%	2.3%	1.9%	1.8%	1.8%	1.8%	1.5%	1.4%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



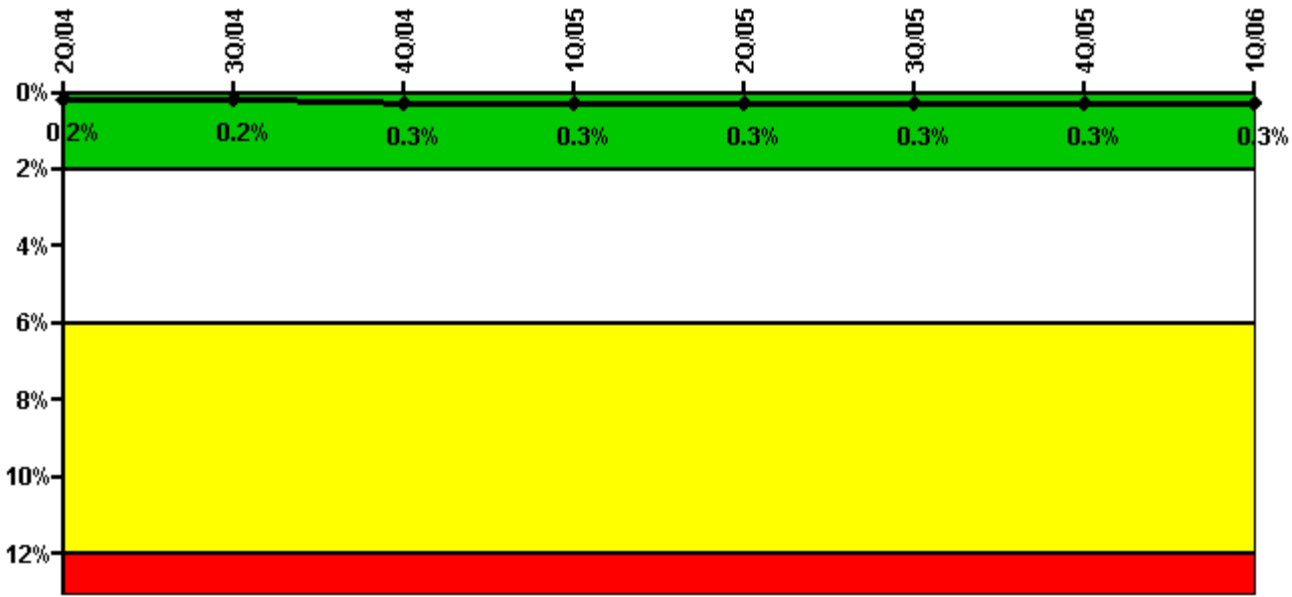
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	1.38	1.20	0	1.58	0	3.50	1.03	3.28
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2029.00	2208.00	2209.00	2160.00	1506.80	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	3.04	6.96	1.38	4.34	1.15	2.80	9.37	1.02
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	2029.00	2208.00	2209.00	2160.00	1506.80	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)



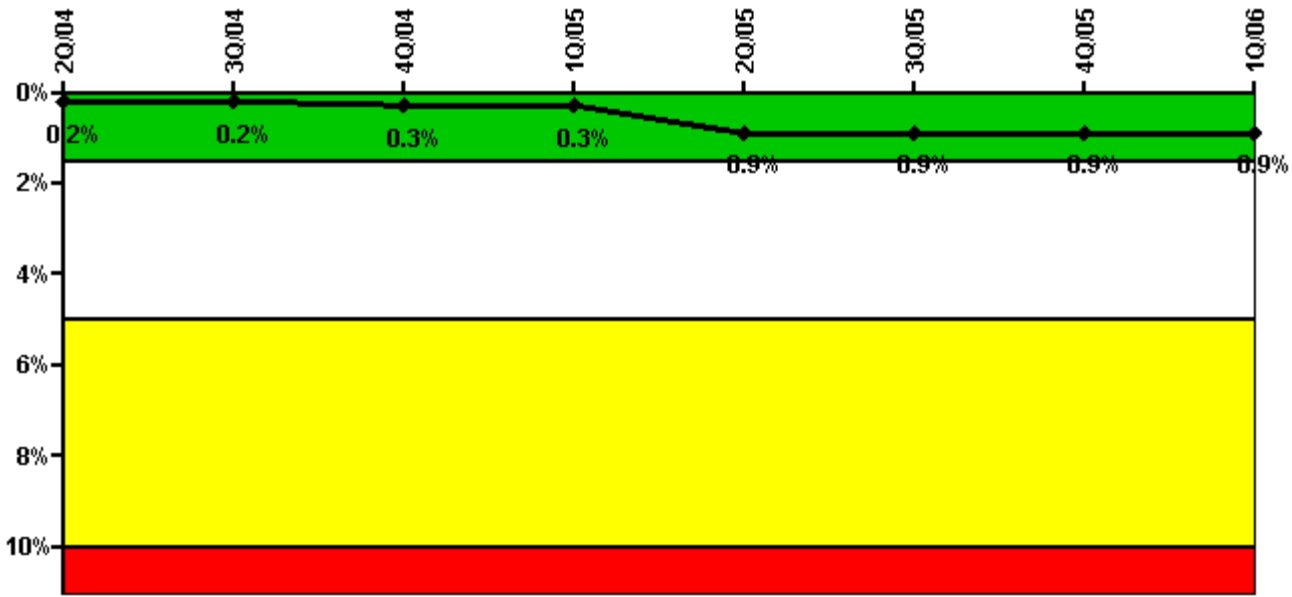
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	0	1.33	3.28	10.80	0	0.82	0.72	1.40
Unplanned unavailable hours	3.52	0	0	0	0	9.45	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2113.00	2208.00	2209.00	2160.00	1554.40	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	2.15	1.07	11.55	1.30	1.60	0.83	0.70	0.73
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2113.00	2208.00	2209.00	2160.00	1554.40	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	5.07	17.37	2.85	23.79	0	6.73	11.78	1.68
Unplanned unavailable hours	8.82	0	47.50	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2041.70	2208.00	2209.00	2160.00	1551.30	2208.00	2209.00	2160.00
Indicator value	0.2%	0.2%	0.3%	0.3%	0.3%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



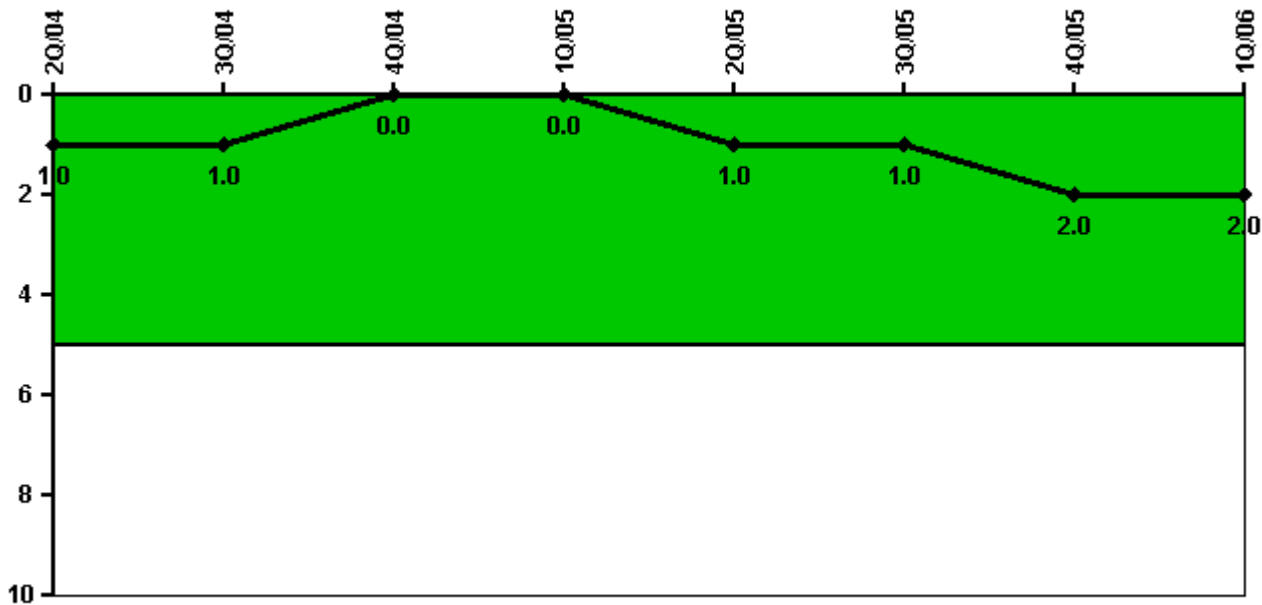
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	0.15	14.68	0.82	0.53	7.78	7.92	1.37	9.48
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	2029.00	2208.00	2209.00	2160.00	1506.80	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	13.79	0.75	0.73	1.66	9.69	0.34	0.52	2.16
Unplanned unavailable hours	0	0	66.70	0	0	0	0	0
Fault exposure hours	0	0	0	0	537.70	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2029.00	2208.00	2209.00	2160.00	1506.80	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	0	0	0	0	58.30	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1975.30	2208.00	2209.00	2160.00
Train 4								
Planned unavailable hours	0	0	0	0	9.28	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1975.30	2208.00	2209.00	2160.00
Indicator value	0.2%	0.2%	0.3%	0.3%	0.9%	0.9%	0.9%	0.9%

Licensee Comments: none

Safety System Functional Failures (PWR)



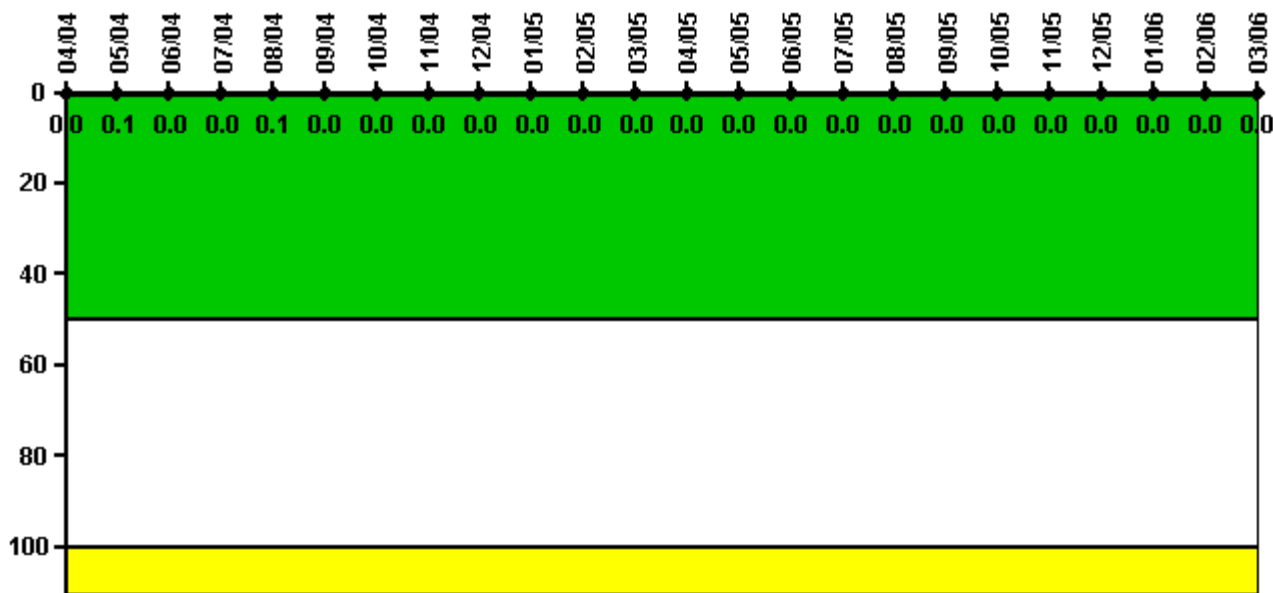
Thresholds: White > 5.0

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

Licensee Comments: none

Reactor Coolant System Activity



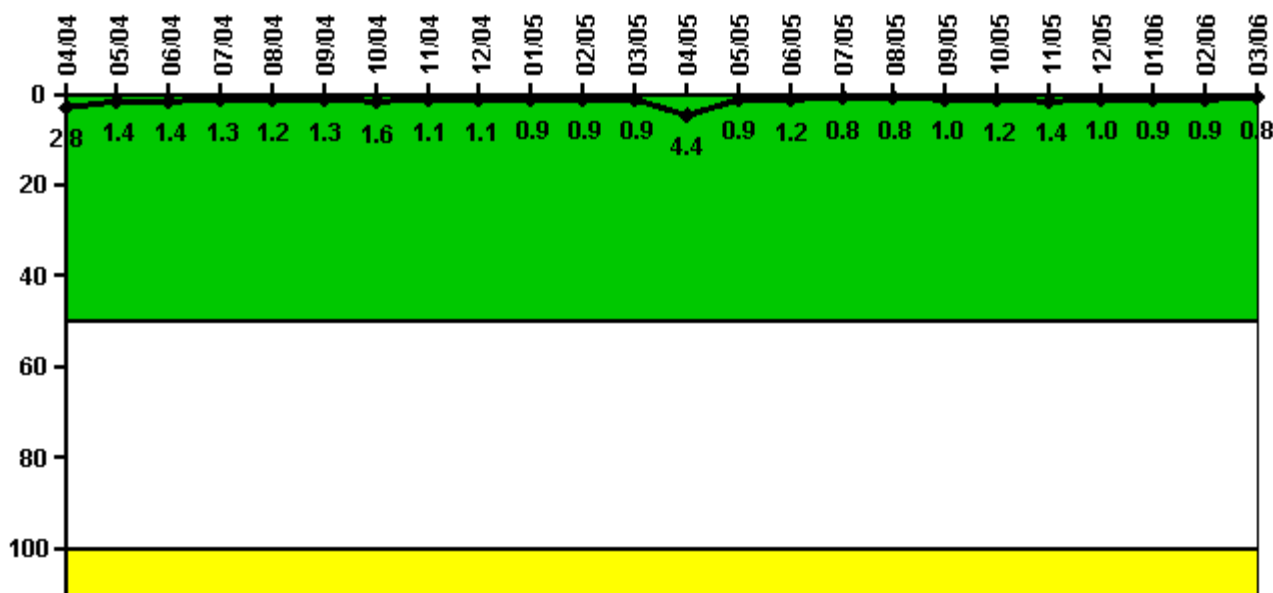
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05
Maximum activity	0.000345	0.000532	0.000437	0.000343	0.000807	0.000468	0.000352	0.000387	0.000401	0.000390	0.000395	0.000403
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0.1	0	0	0.1	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum activity	0.000433	0.000313	0.000404	0.000334	0.000326	0.000323	0.000395	0.000358	0.000358	0.000422	0.000347	0.000470
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

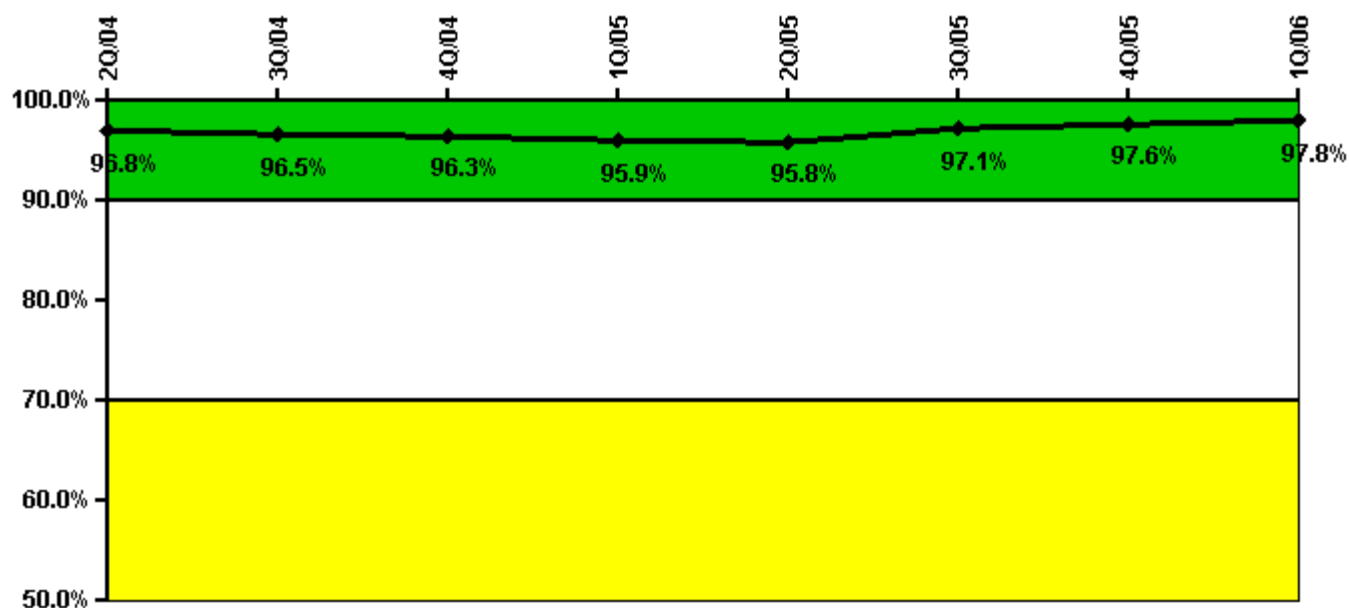
Notes

Reactor Coolant System Leakage	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05
Maximum leakage	0.280	0.140	0.140	0.130	0.120	0.130	0.160	0.110	0.110	0.090	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	2.8	1.4	1.4	1.3	1.2	1.3	1.6	1.1	1.1	0.9	0.9	0.9

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	0.440	0.090	0.120	0.080	0.080	0.100	0.120	0.140	0.100	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	4.4	0.9	1.2	0.8	0.8	1.0	1.2	1.4	1.0	0.9	0.9	0.8

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

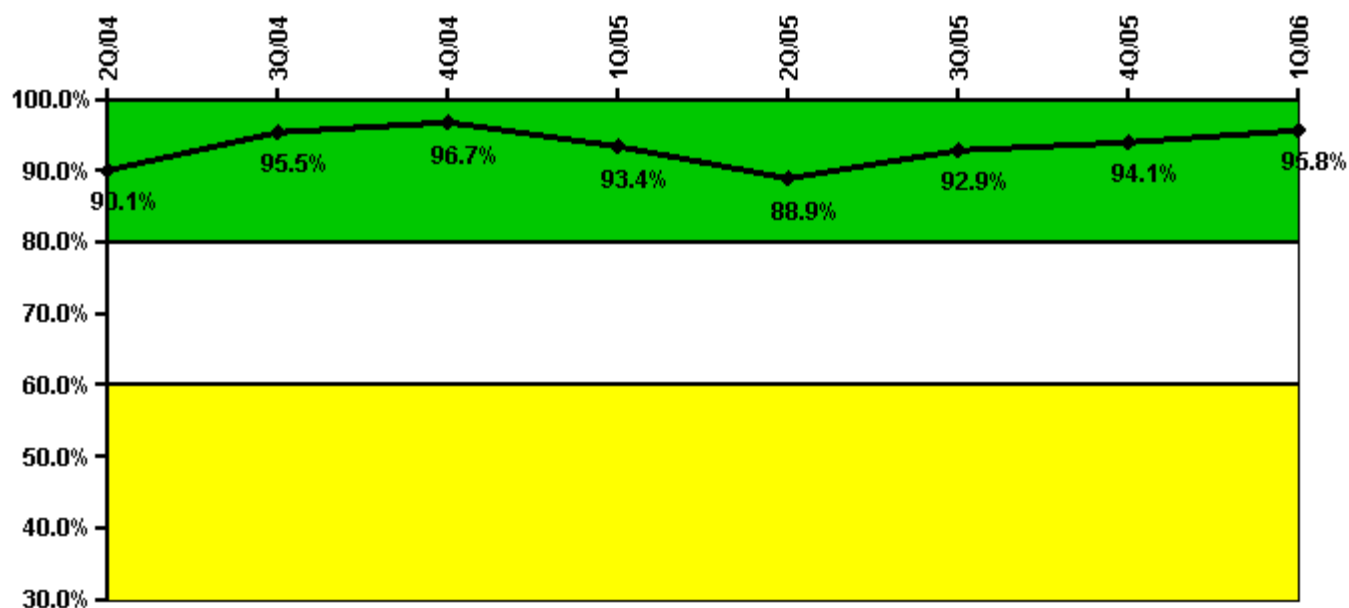
Notes

Drill/Exercise Performance	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful opportunities	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



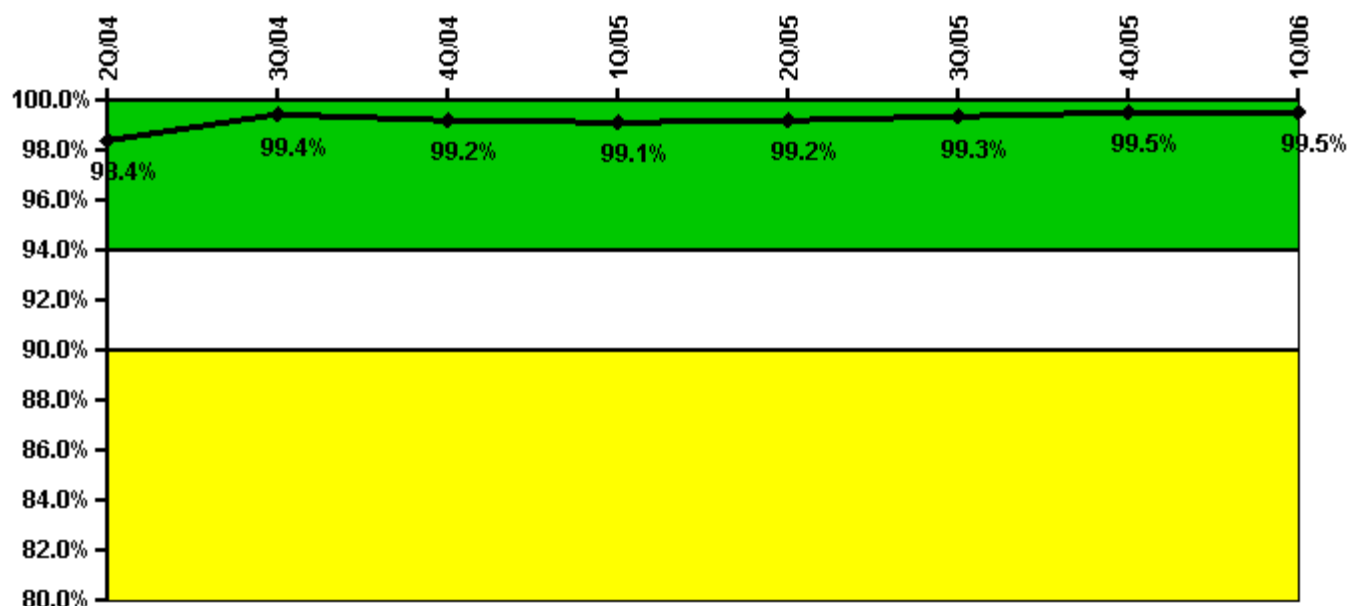
Thresholds: White < 80.0% Yellow < 60.0%

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%

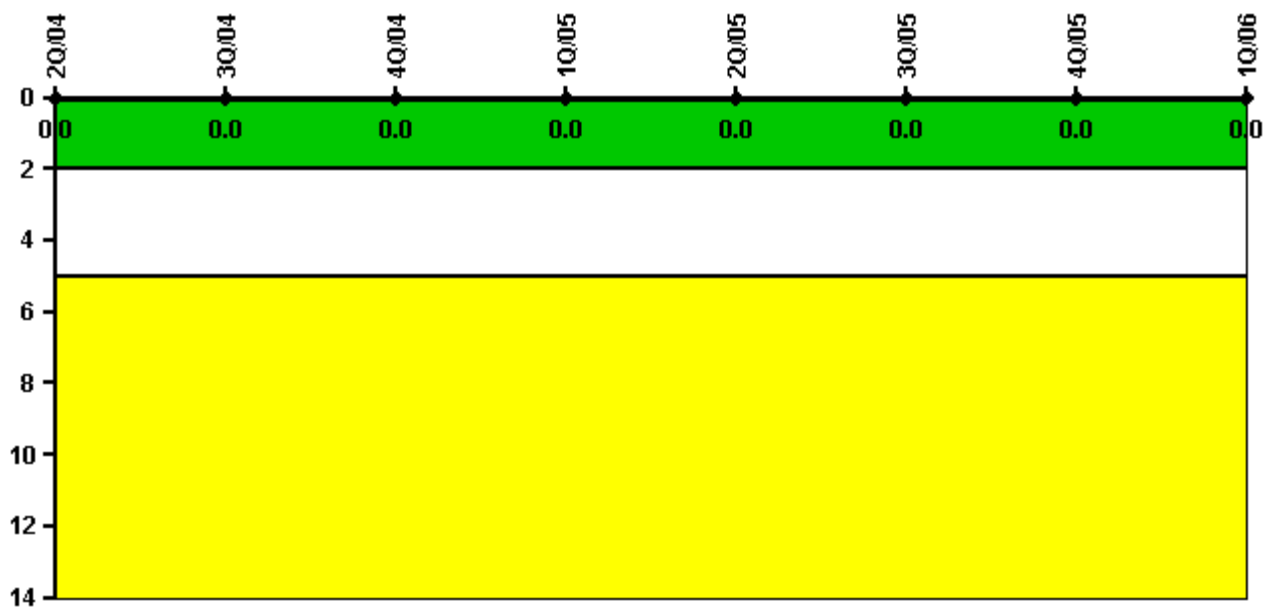
Notes

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



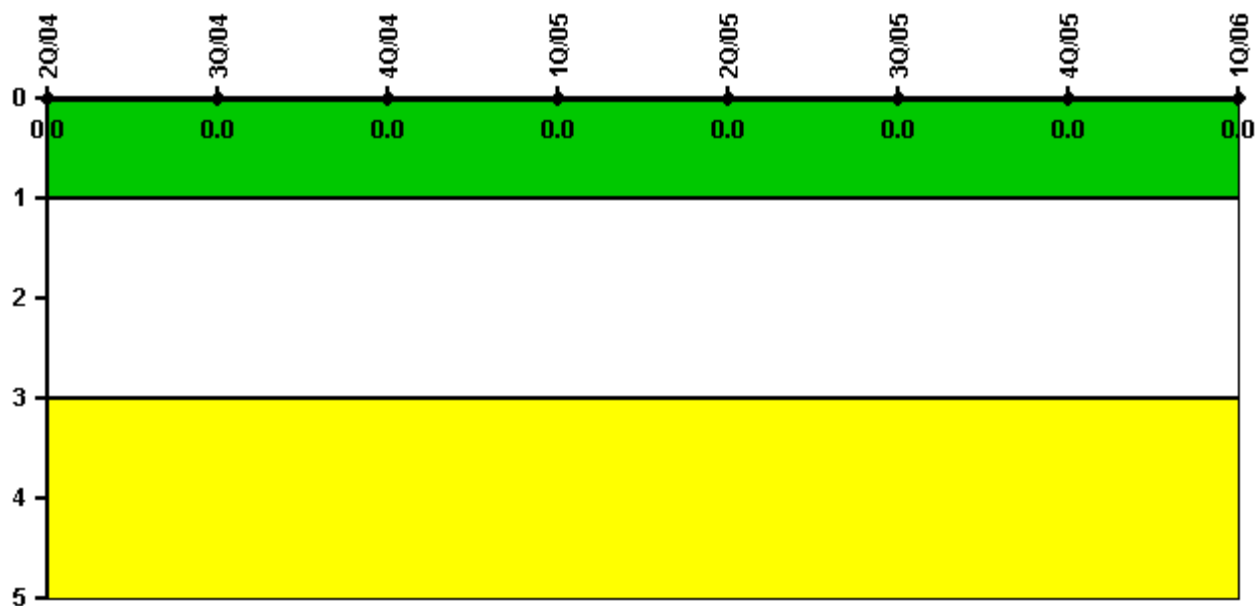
Thresholds: White > 2.0 Yellow > 5.0

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](#)

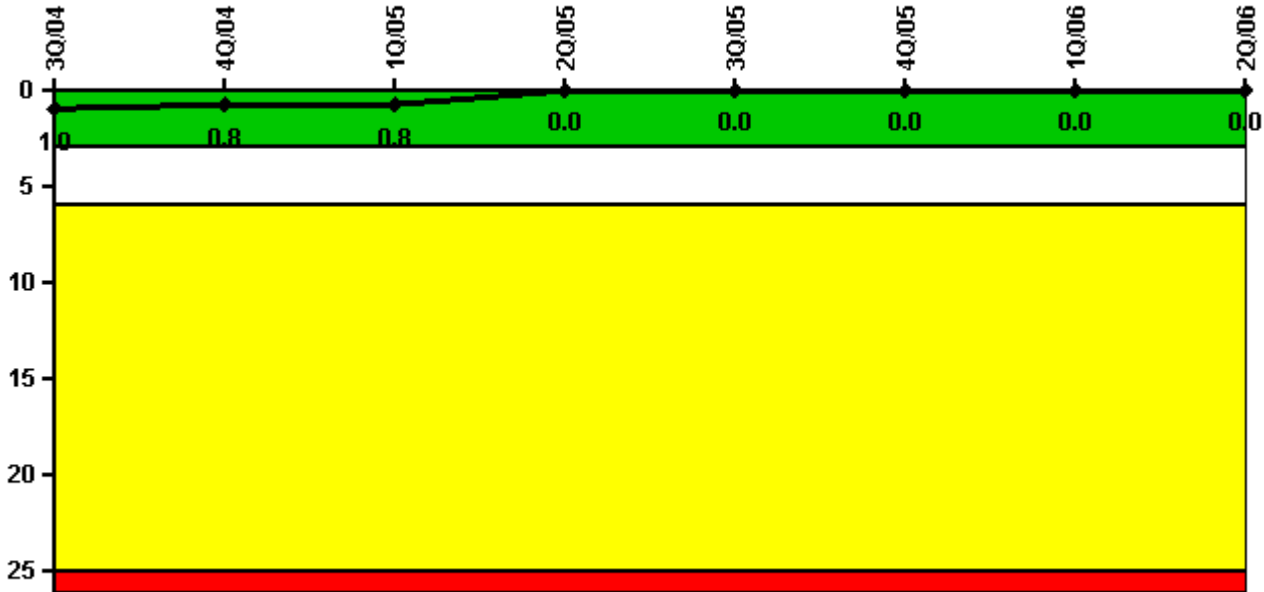
Last Modified: May 5, 2006

Surry 2

2Q/2006 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2160.0	1505.8	2208.0	2209.0	2160.0	2183.0
Indicator value	1.0	0.8	0.8	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



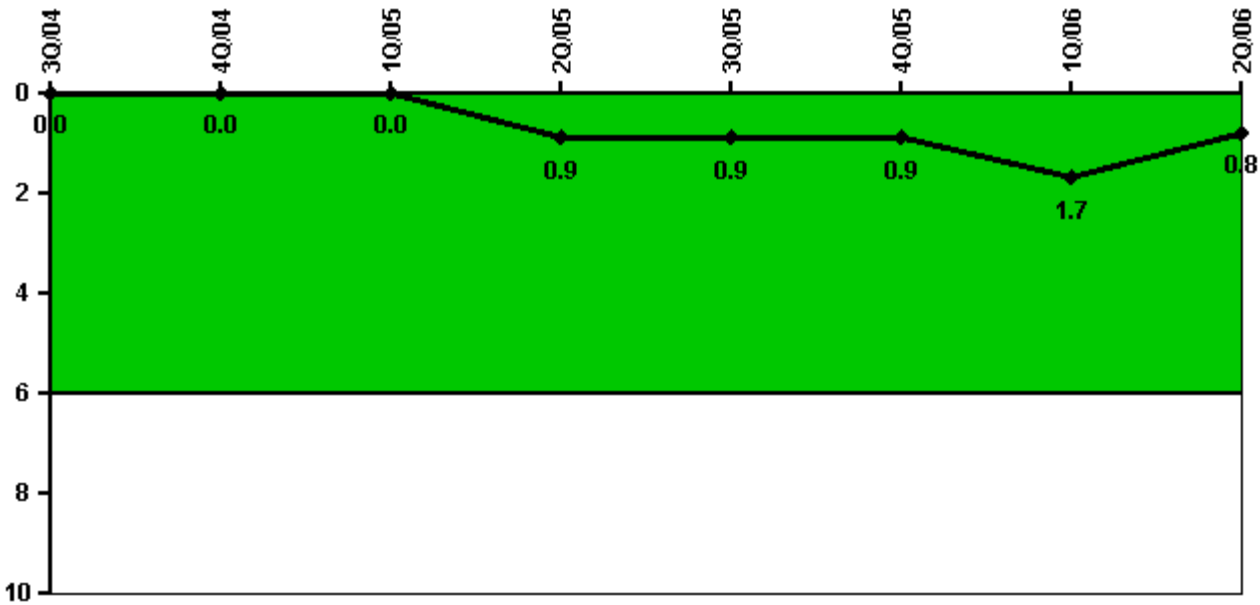
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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



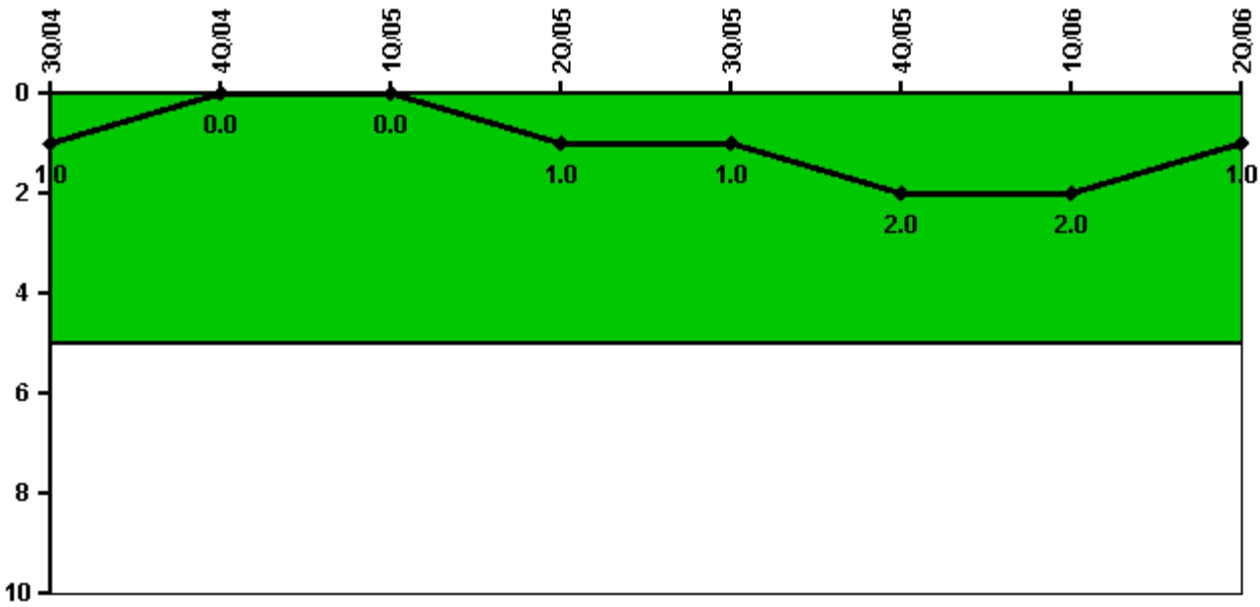
Thresholds: White > 6.0

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	1.0	0	0	1.0	0
Critical hours	2208.0	2209.0	2160.0	1505.8	2208.0	2209.0	2160.0	2183.0
Indicator value	0	0	0	0.9	0.9	0.9	1.7	0.8

Licensee Comments: none

Safety System Functional Failures (PWR)



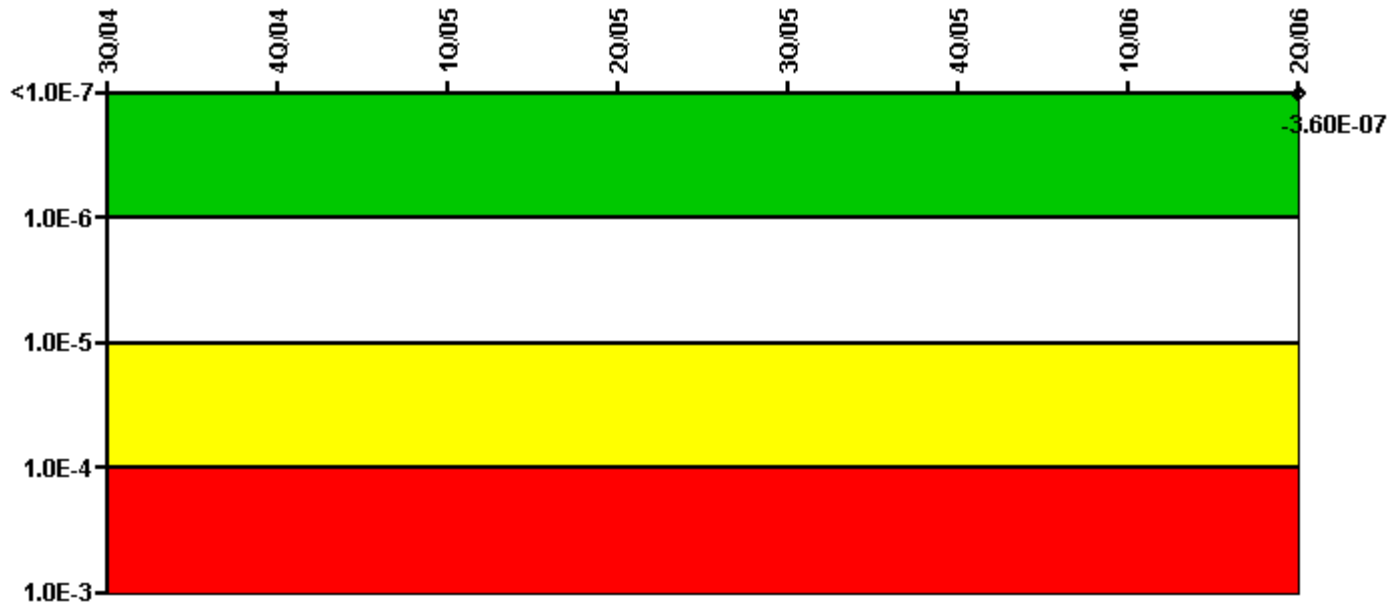
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

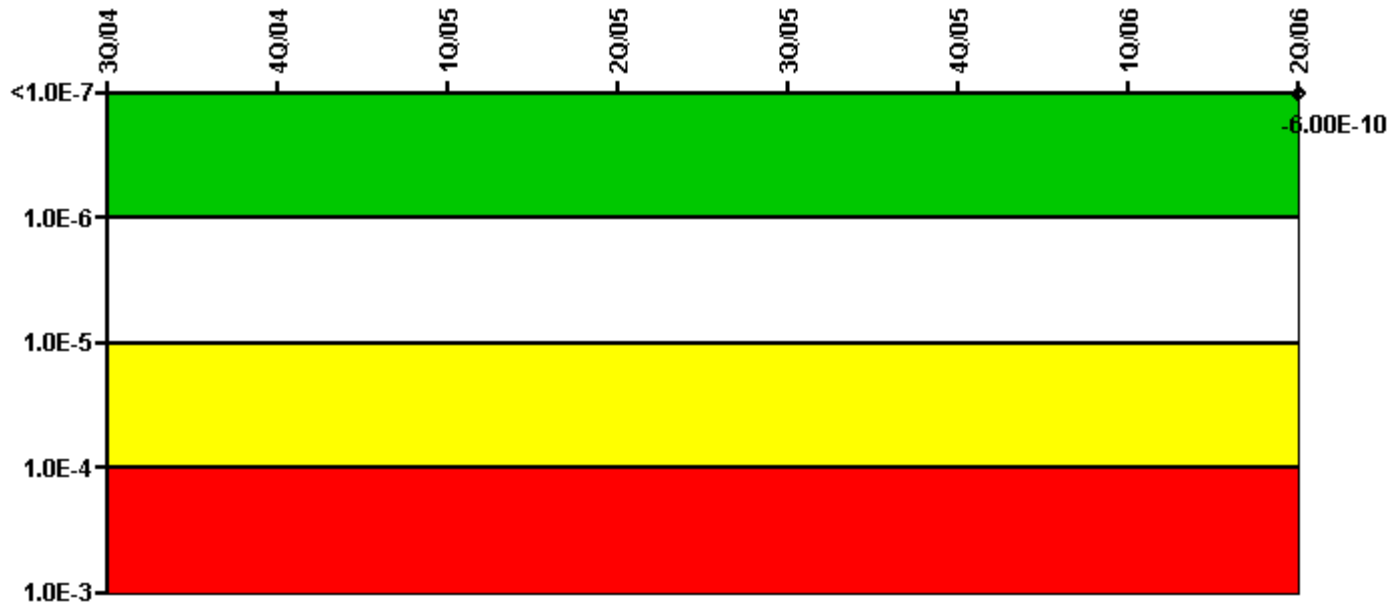
Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								1.00E-07
URI (ΔCDF)								-4.60E-07
PLE								NO
Indicator value								-3.60E-07

Licensee Comments:

2Q/06: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



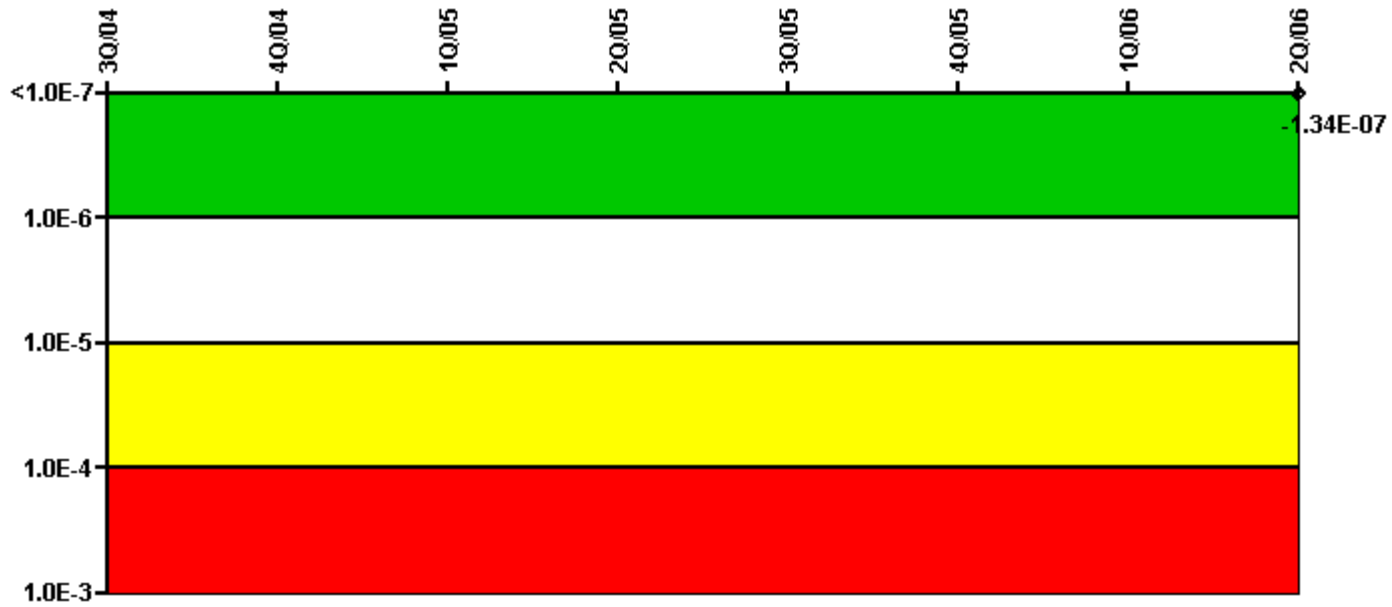
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)								4.80E-09
URI (ΔCDF)								-5.40E-09
PLE								NO
Indicator value								-6.00E-10

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



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

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								-1.40E-08
URI (ΔCDF)								-1.20E-07
PLE								NO
Indicator value								-1.34E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



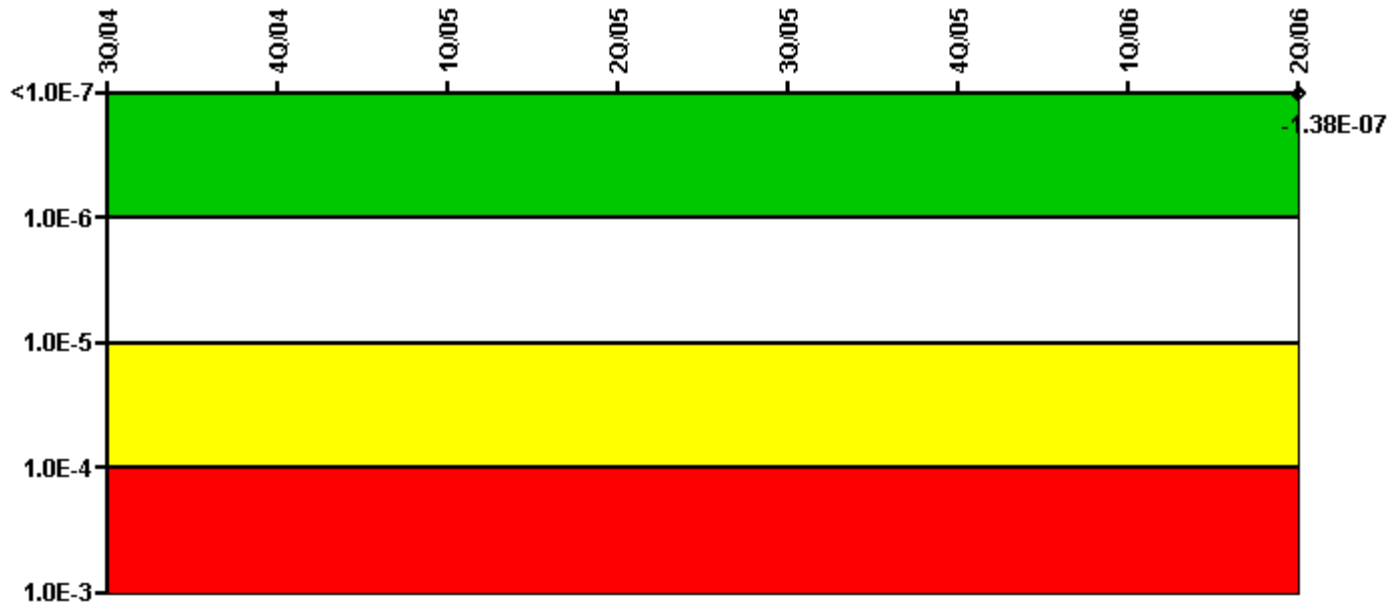
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)								2.00E-08
URI (ΔCDF)								2.40E-07
PLE								NO
Indicator value								2.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



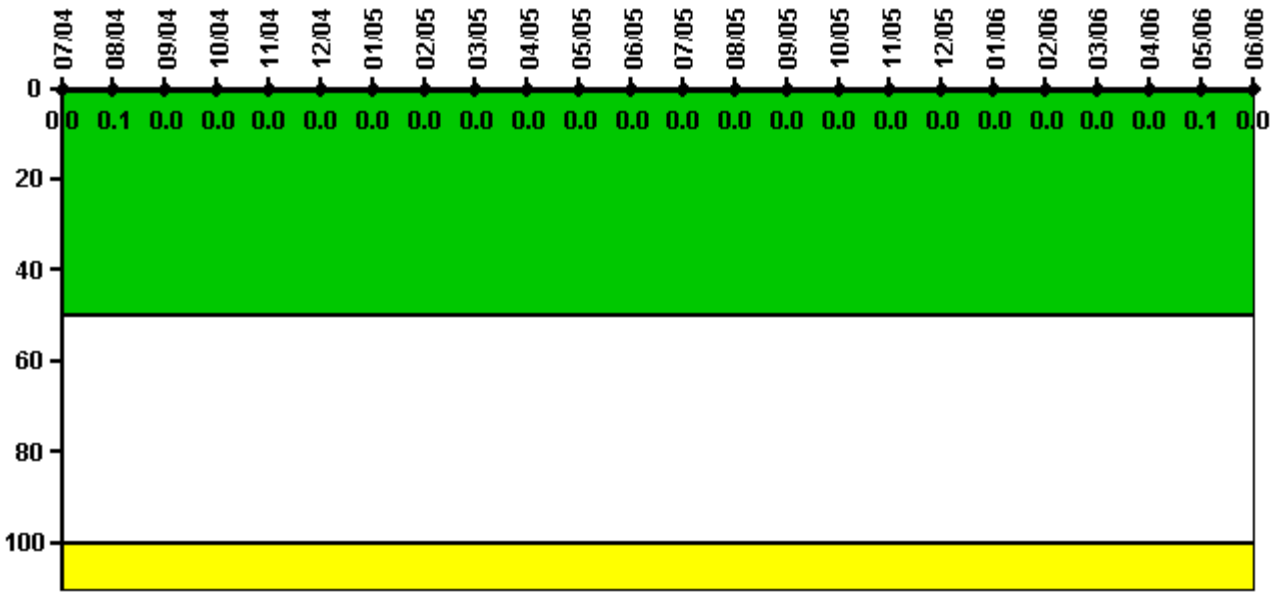
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								-7.50E-09
URI (ΔCDF)								-1.30E-07
PLE								NO
Indicator value								-1.38E-07

Licensee Comments: none

Reactor Coolant System Activity



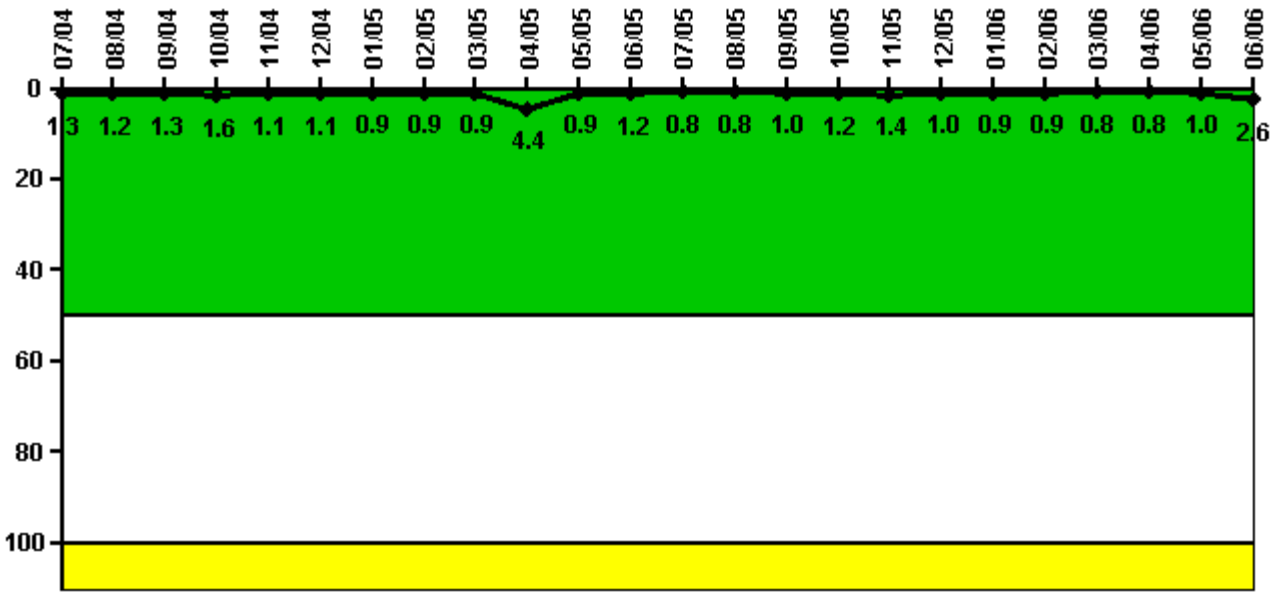
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05
Maximum activity	0.000343	0.000807	0.000468	0.000352	0.000387	0.000401	0.000390	0.000395	0.000403	0.000433	0.000313	0.000404
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0.1	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06
Maximum activity	0.000334	0.000326	0.000323	0.000395	0.000358	0.000358	0.000422	0.000347	0.000470	0.000473	0.000508	0.000487
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0.1	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

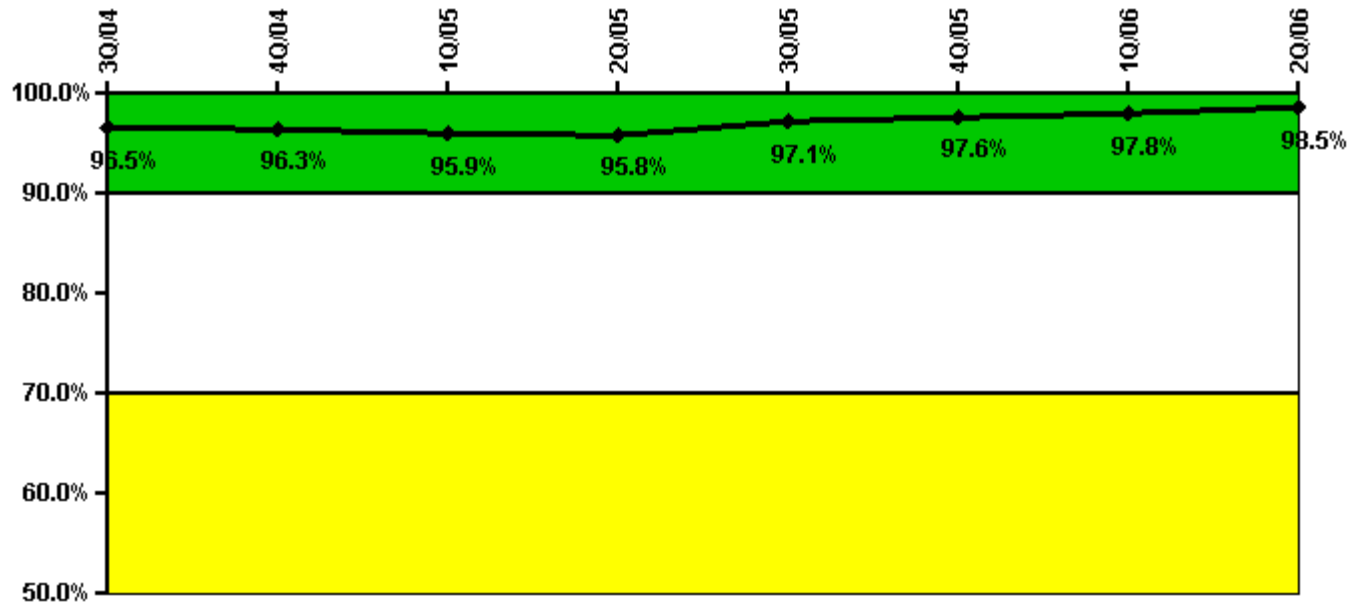
Notes

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	0.130	0.120	0.130	0.160	0.110	0.110	0.090	0.090	0.090	0.440	0.090	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	1.3	1.2	1.3	1.6	1.1	1.1	0.9	0.9	0.9	4.4	0.9	1.2

Reactor Coolant System Leakage	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06
Maximum leakage	0.080	0.080	0.100	0.120	0.140	0.100	0.090	0.090	0.080	0.080	0.100	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	0.8	0.8	1.0	1.2	1.4	1.0	0.9	0.9	0.8	0.8	1.0	2.6

Licensee Comments: none

Drill/Exercise Performance



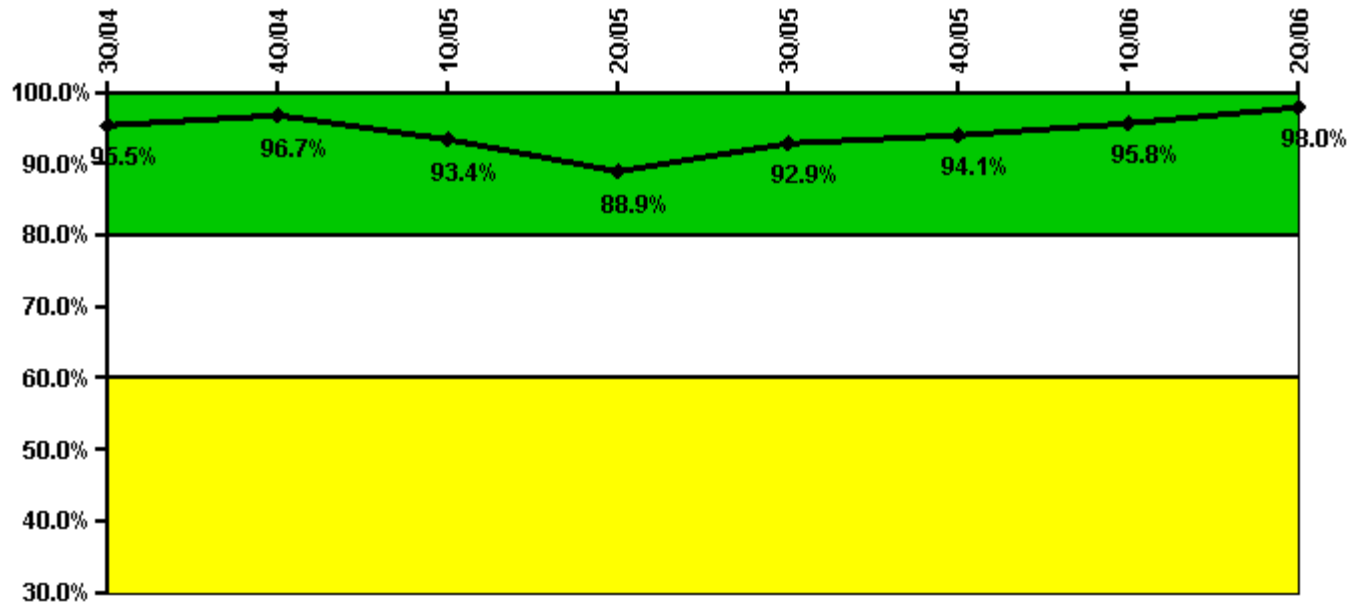
Thresholds: White < 90.0% Yellow < 70.0%

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



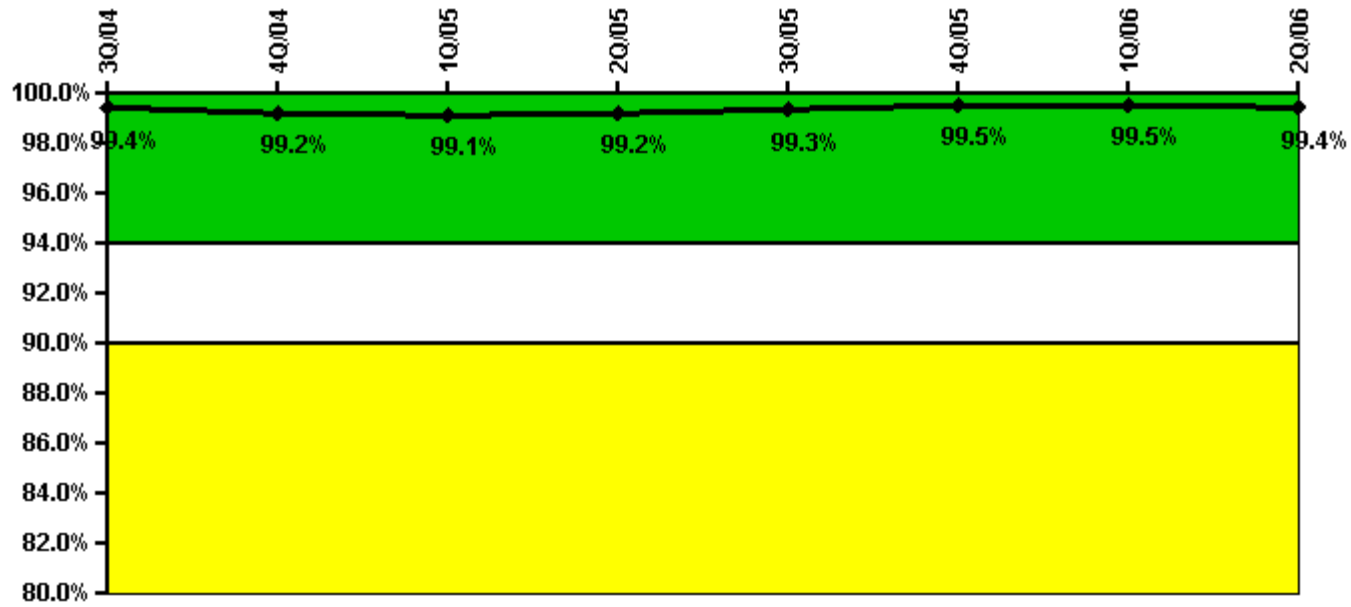
Thresholds: White < 80.0% Yellow < 60.0%

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



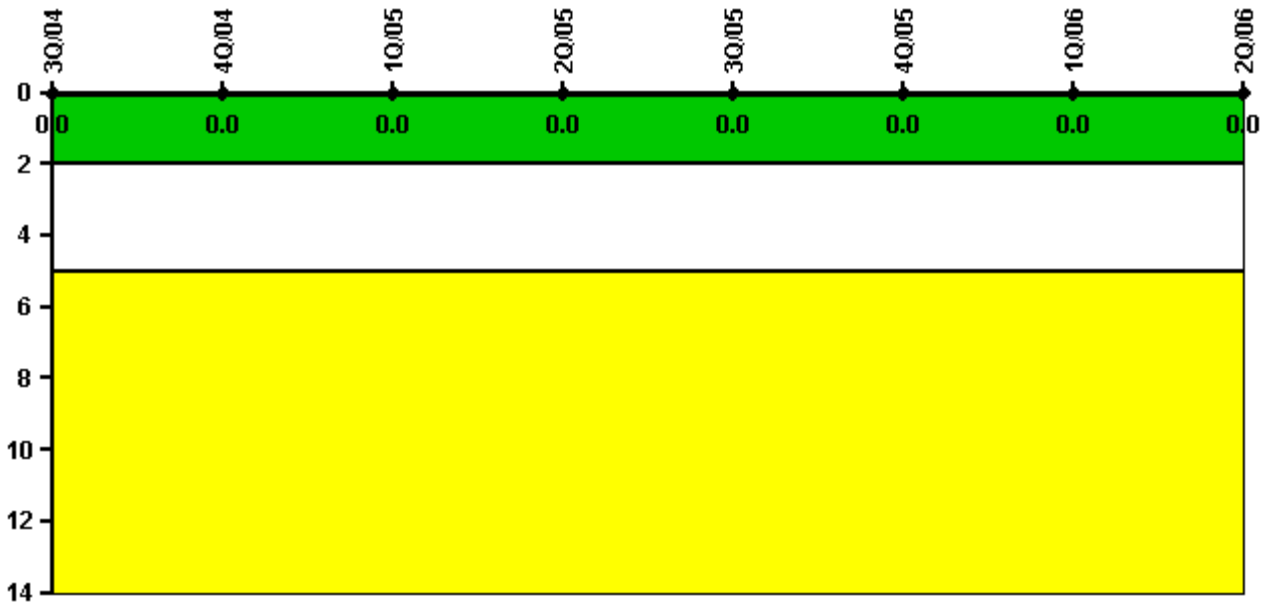
Thresholds: White < 94.0% Yellow < 90.0%

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



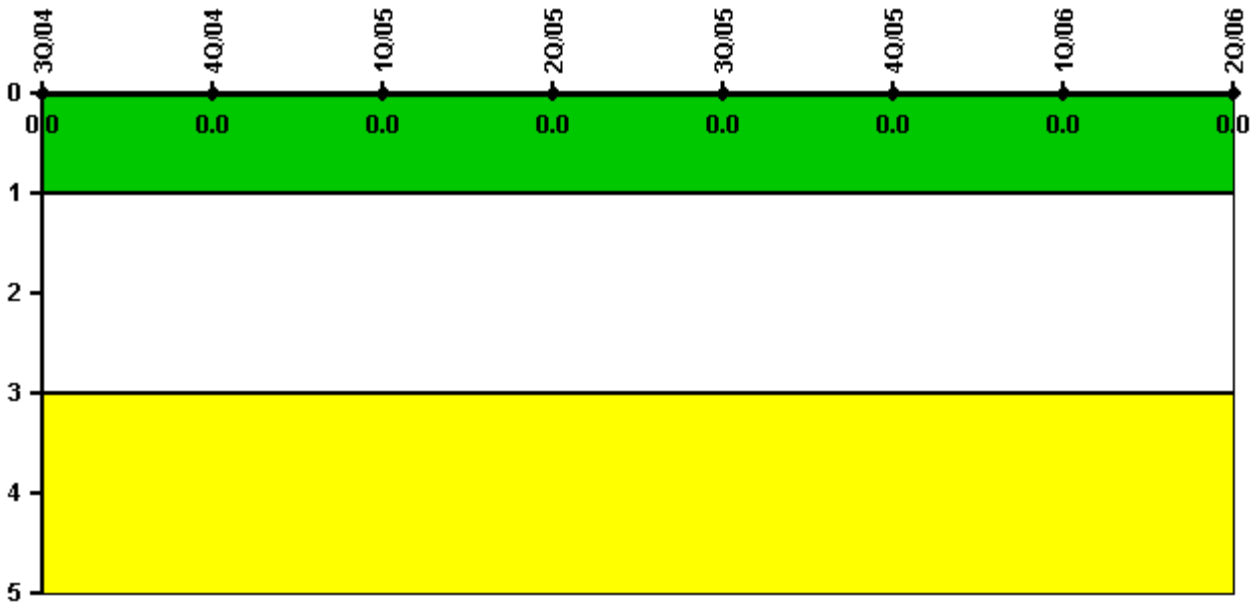
Thresholds: White > 2.0 Yellow > 5.0

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

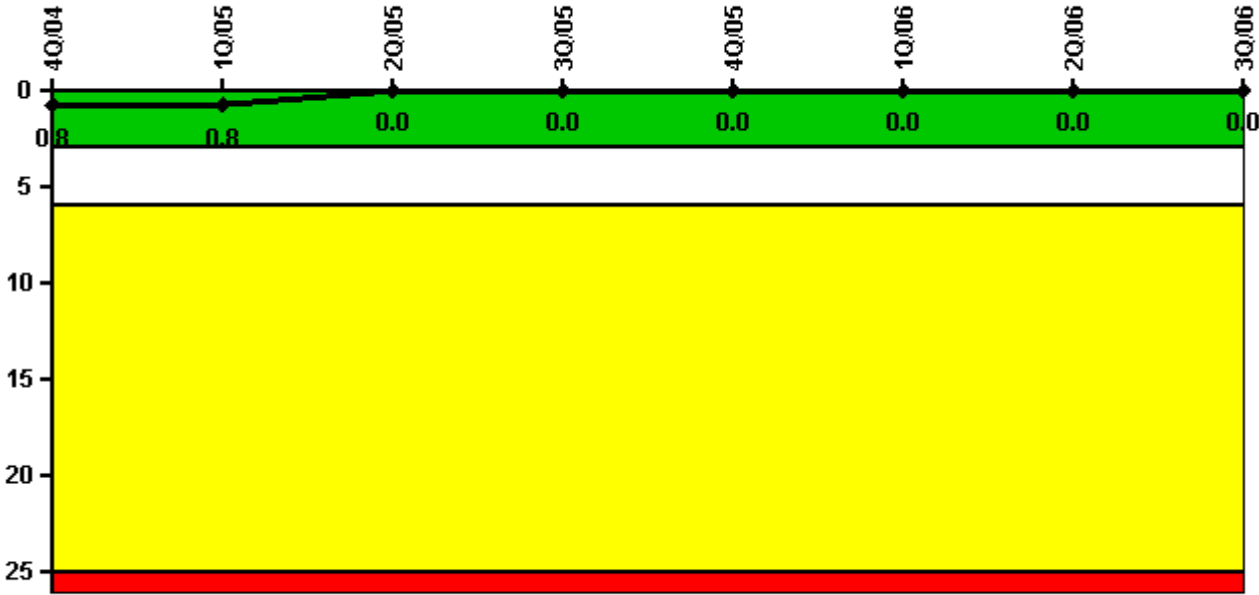
[Physical Protection](#) information not publicly available.

Surry 2

3Q/2006 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



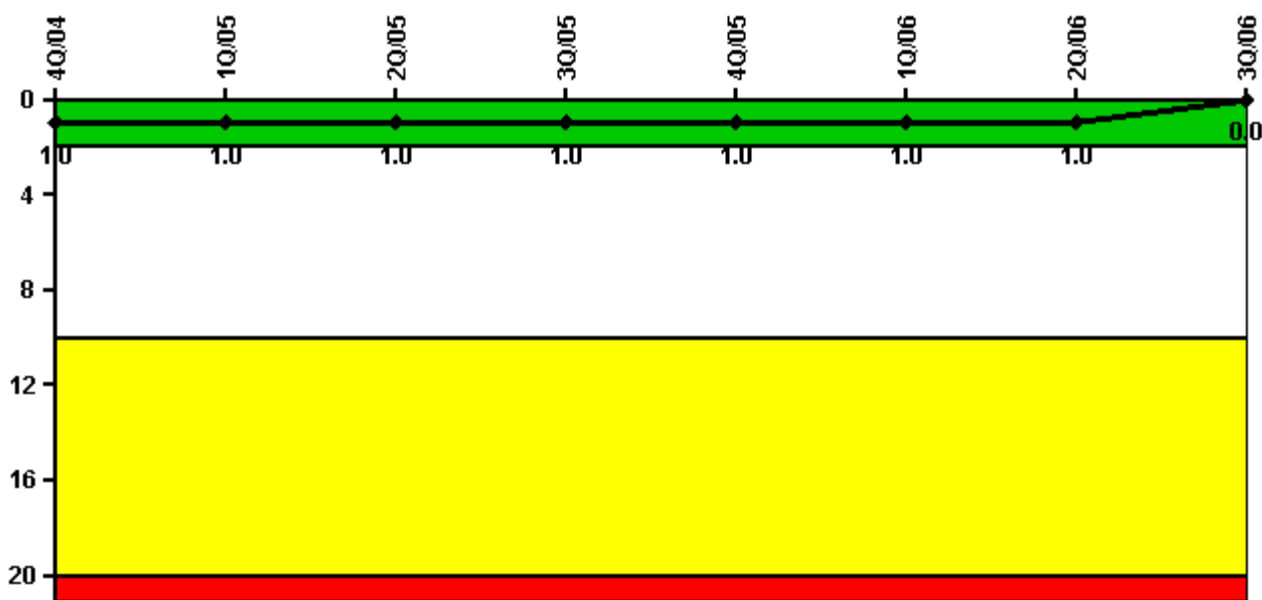
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2160.0	1505.8	2208.0	2209.0	2160.0	2183.0	2208.0
Indicator value	0.8	0.8	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



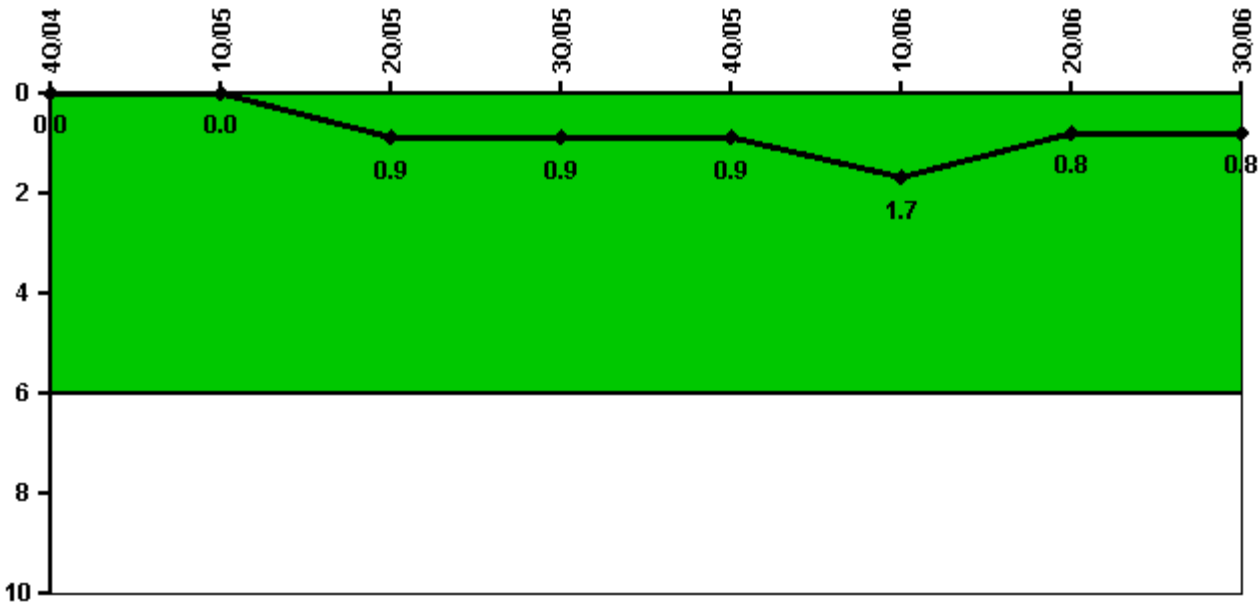
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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



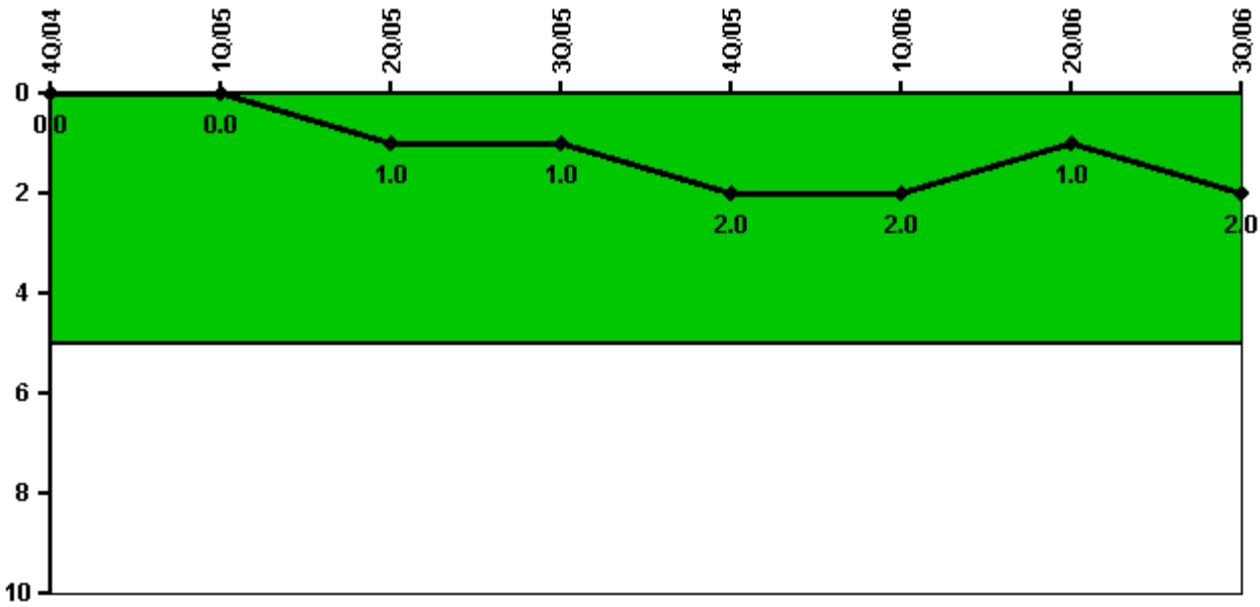
Thresholds: White > 6.0

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	1.0	0	0	1.0	0	0
Critical hours	2209.0	2160.0	1505.8	2208.0	2209.0	2160.0	2183.0	2208.0
Indicator value	0	0	0.9	0.9	0.9	1.7	0.8	0.8

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

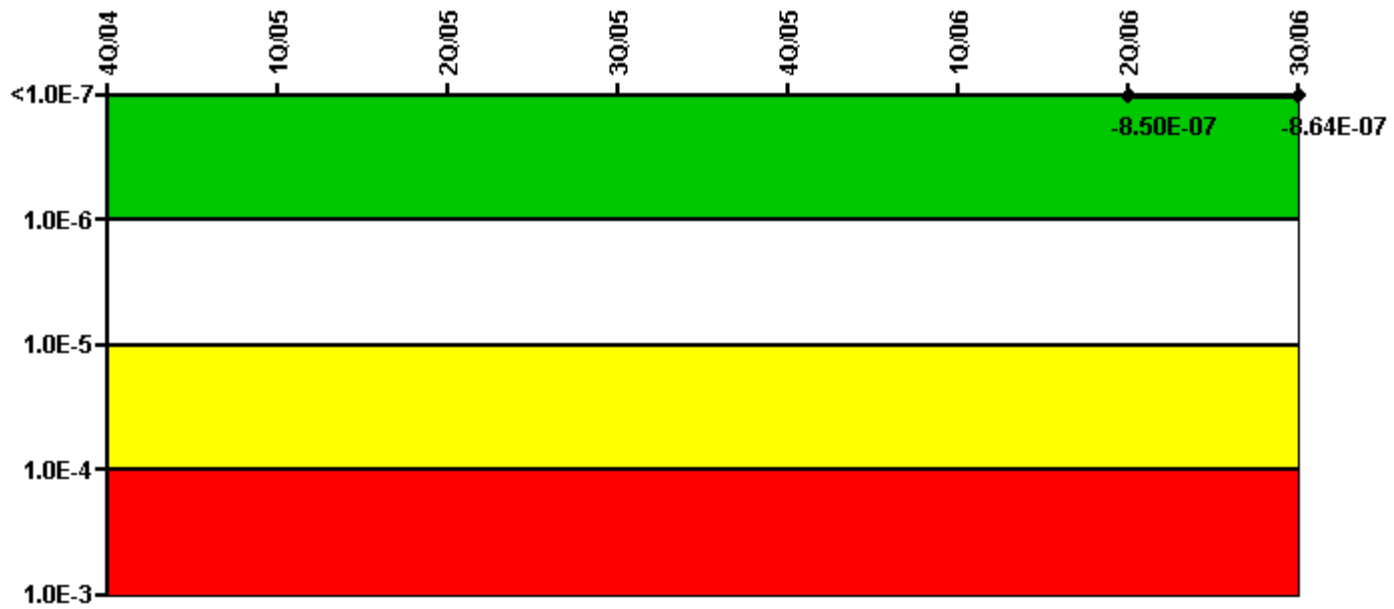
Notes

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

Licensee Comments:

3Q/06: LER U-2 2006-001, "Charging Pump Component Cooling Water System Inoperable Due to Inadequate Venting" dated 09/25/06.

Mitigating Systems Performance Index, Emergency AC Power System



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

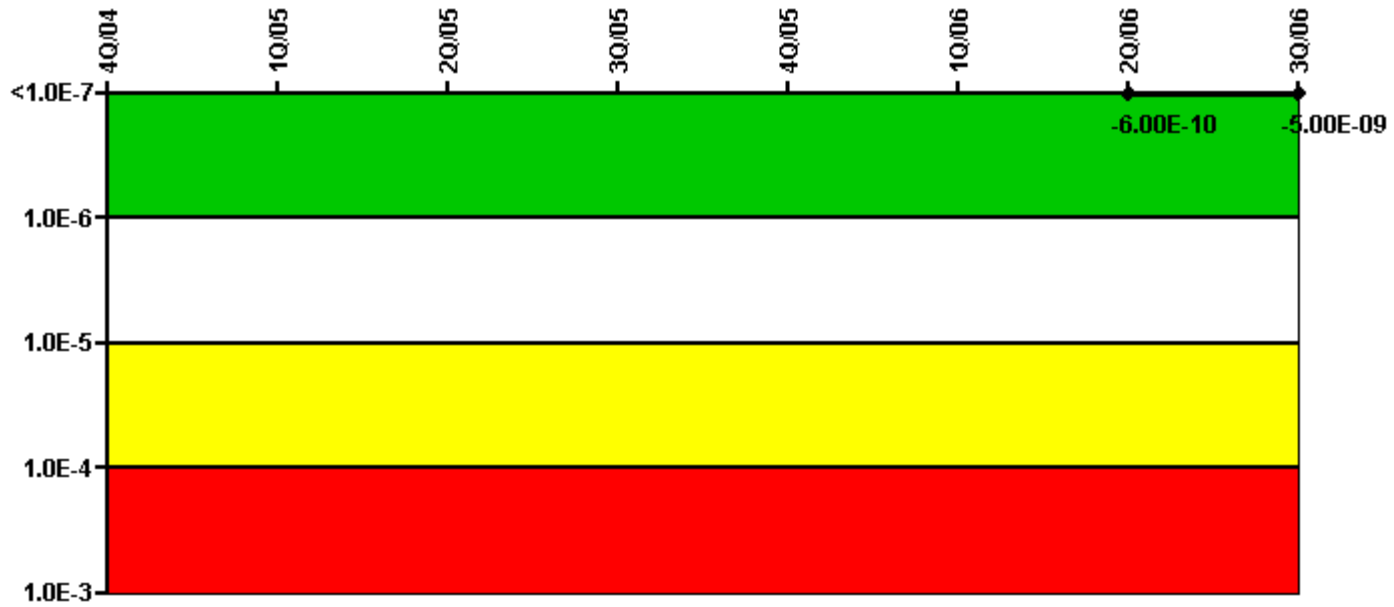
Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (Δ CDF)							1.10E-07	7.60E-08
URI (Δ CDF)							-9.60E-07	-9.40E-07
PLE							NO	NO
Indicator value							-8.50E-07	-8.64E-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



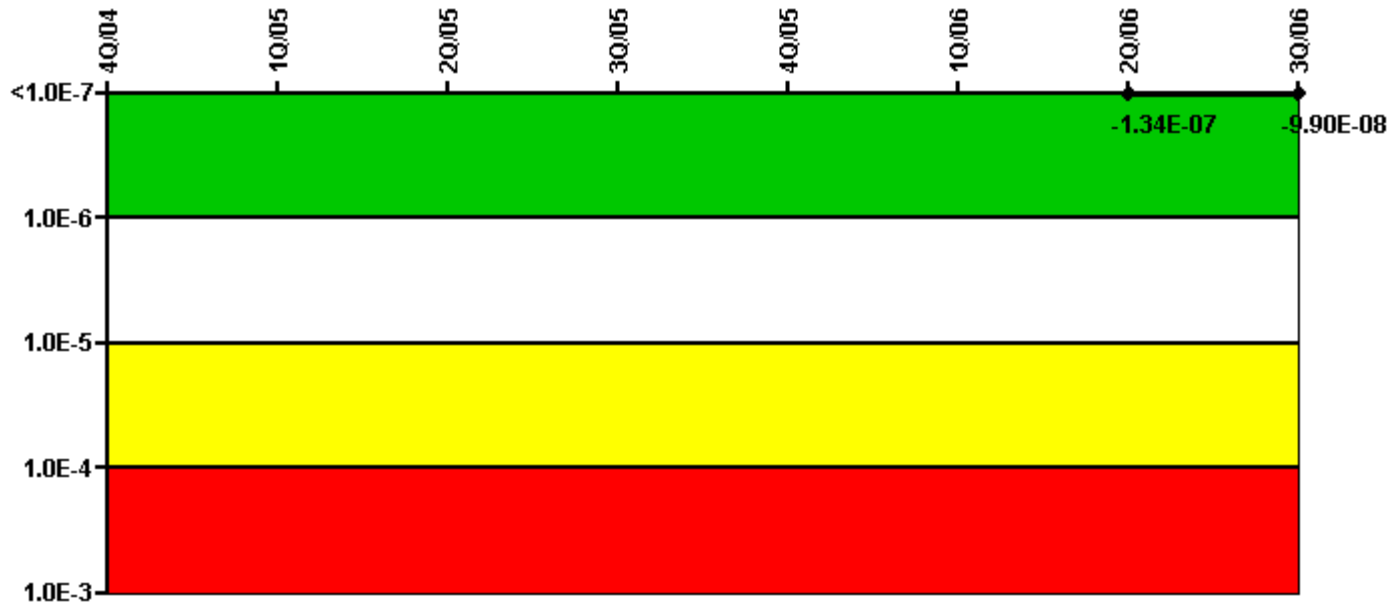
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)							4.80E-09	4.60E-09
URI (Δ CDF)							-5.40E-09	-9.60E-09
PLE							NO	NO
Indicator value							-6.00E-10	-5.00E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



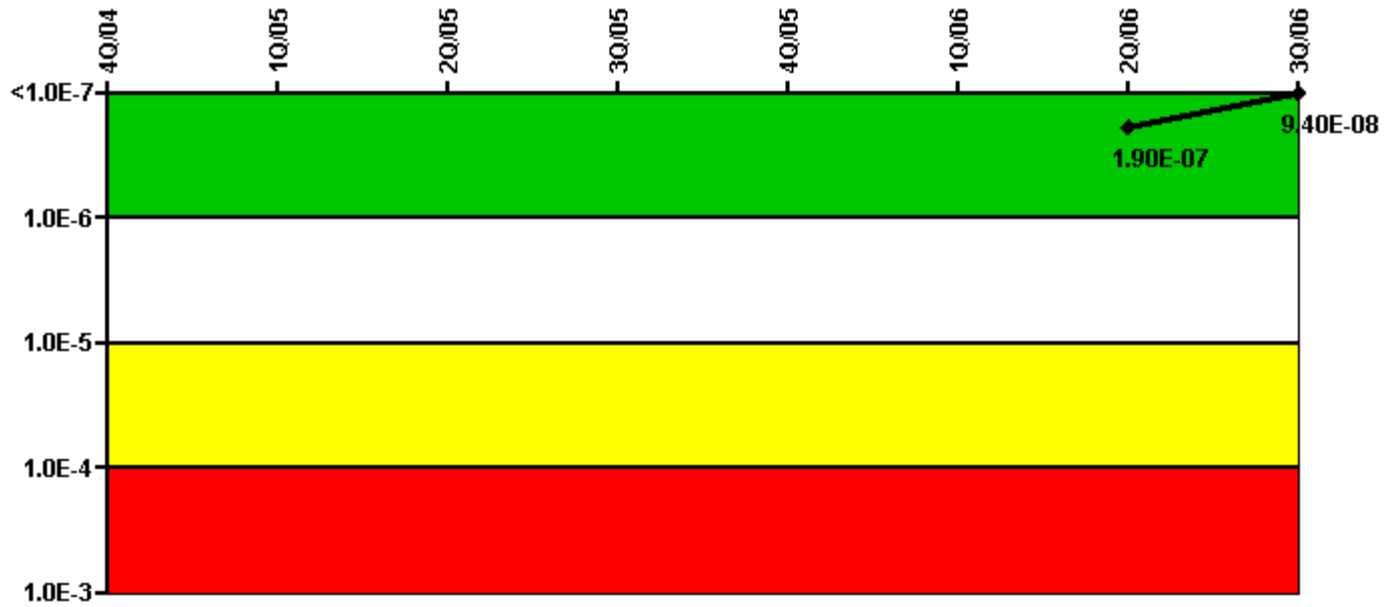
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)							-1.40E-08	1.10E-08
URI (Δ CDF)							-1.20E-07	-1.10E-07
PLE							NO	NO
Indicator value							-1.34E-07	-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

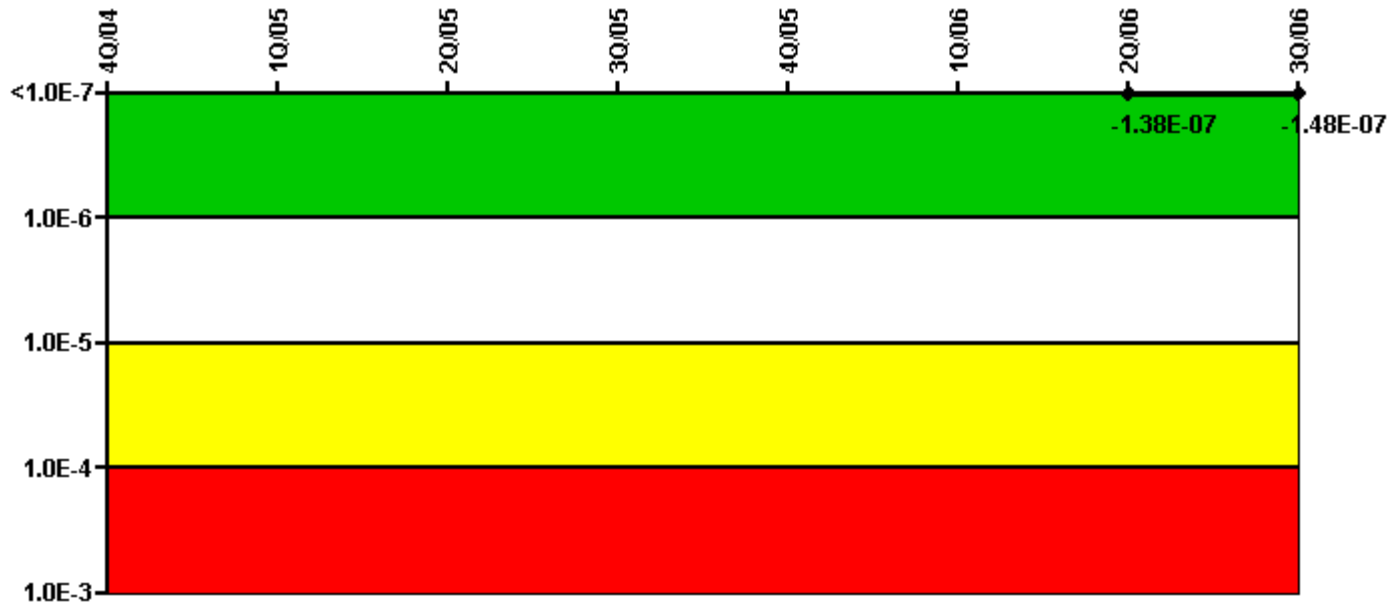
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (Δ CDF)							2.00E-08	1.90E-08
URI (Δ CDF)							1.70E-07	7.50E-08
PLE							NO	NO
Indicator value							1.90E-07	9.40E-08

Licensee Comments:

3Q/06: A self-assessment revealed pump leakage in March 2004 should not have counted as a MSPI failure. Data was corrected with no change in color.

Mitigating Systems Performance Index, Cooling Water Systems



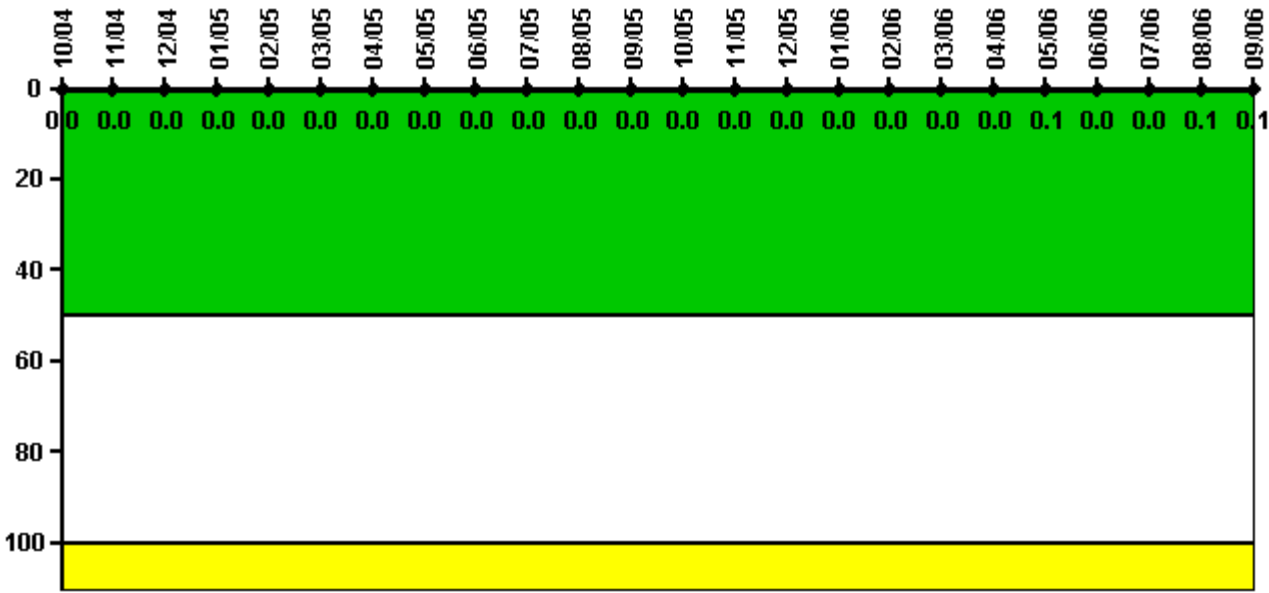
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							-7.50E-09	-8.00E-09
URI (ΔCDF)							-1.30E-07	-1.40E-07
PLE							NO	NO
Indicator value							-1.38E-07	-1.48E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

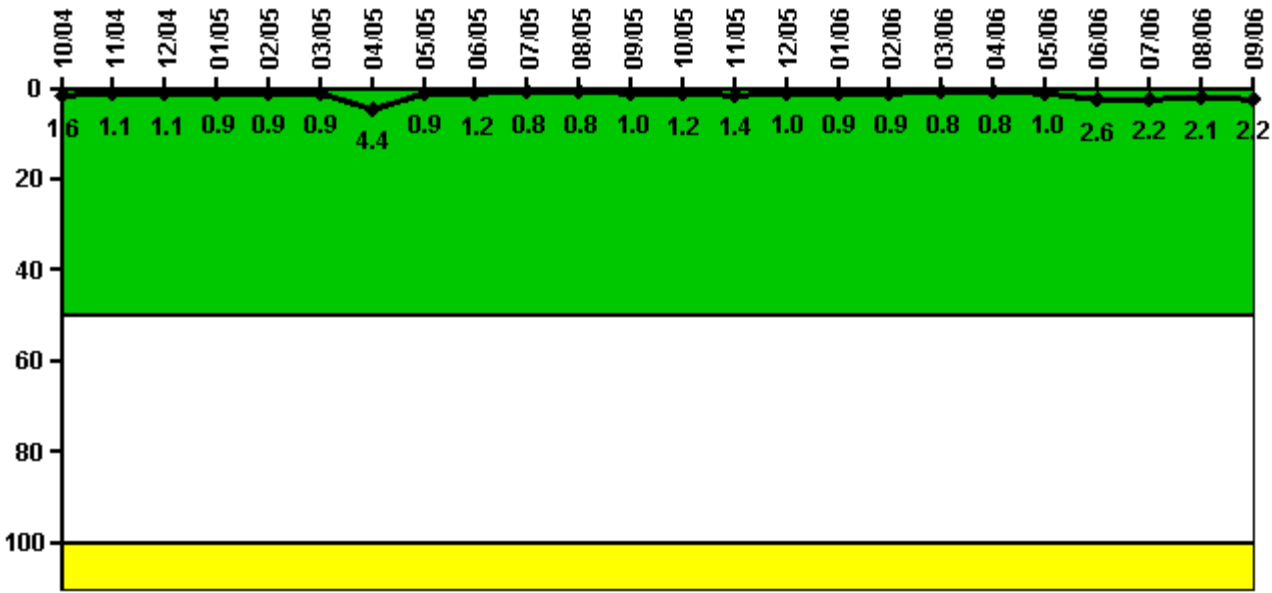
Notes

Reactor Coolant System Activity	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum activity	0.000352	0.000387	0.000401	0.000390	0.000395	0.000403	0.000433	0.000313	0.000404	0.000334	0.000326	0.000323
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06
Maximum activity	0.000395	0.000358	0.000358	0.000422	0.000347	0.000470	0.000473	0.000508	0.000487	0.000498	0.000506	0.000815
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0.1	0	0	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

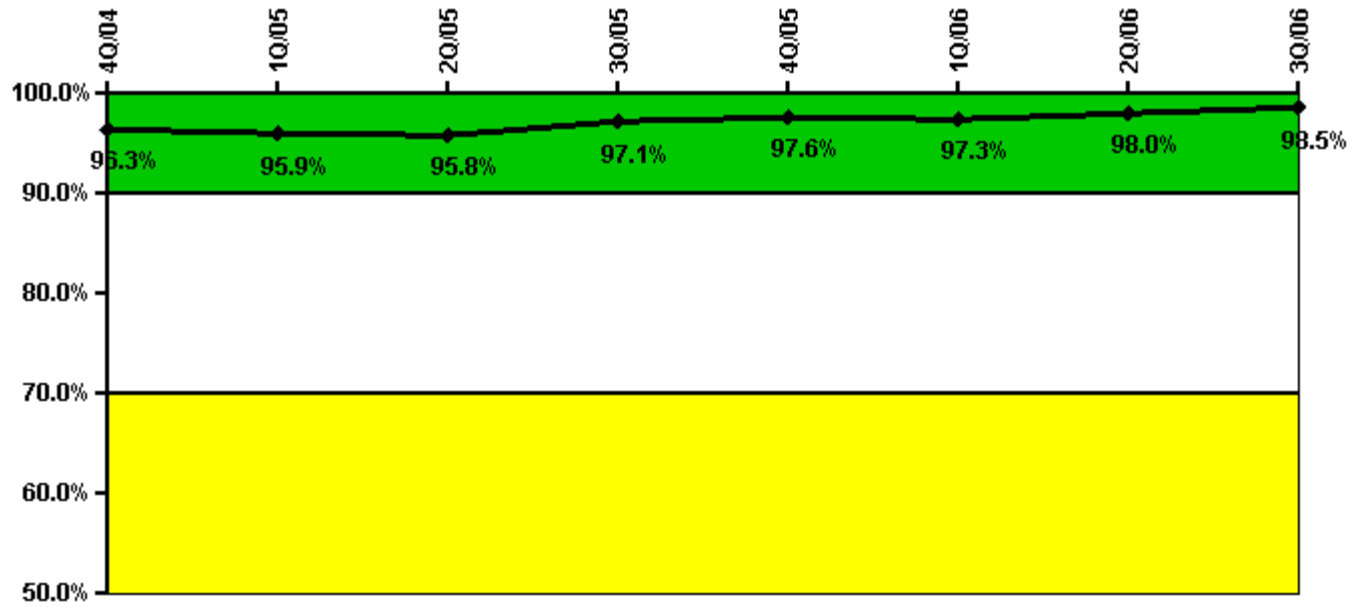
Notes

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	0.160	0.110	0.110	0.090	0.090	0.090	0.440	0.090	0.120	0.080	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	1.6	1.1	1.1	0.9	0.9	0.9	4.4	0.9	1.2	0.8	0.8	1.0

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	0.140	0.100	0.090	0.090	0.080	0.080	0.100	0.260	0.220	0.210	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	1.2	1.4	1.0	0.9	0.9	0.8	0.8	1.0	2.6	2.2	2.1	2.2

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

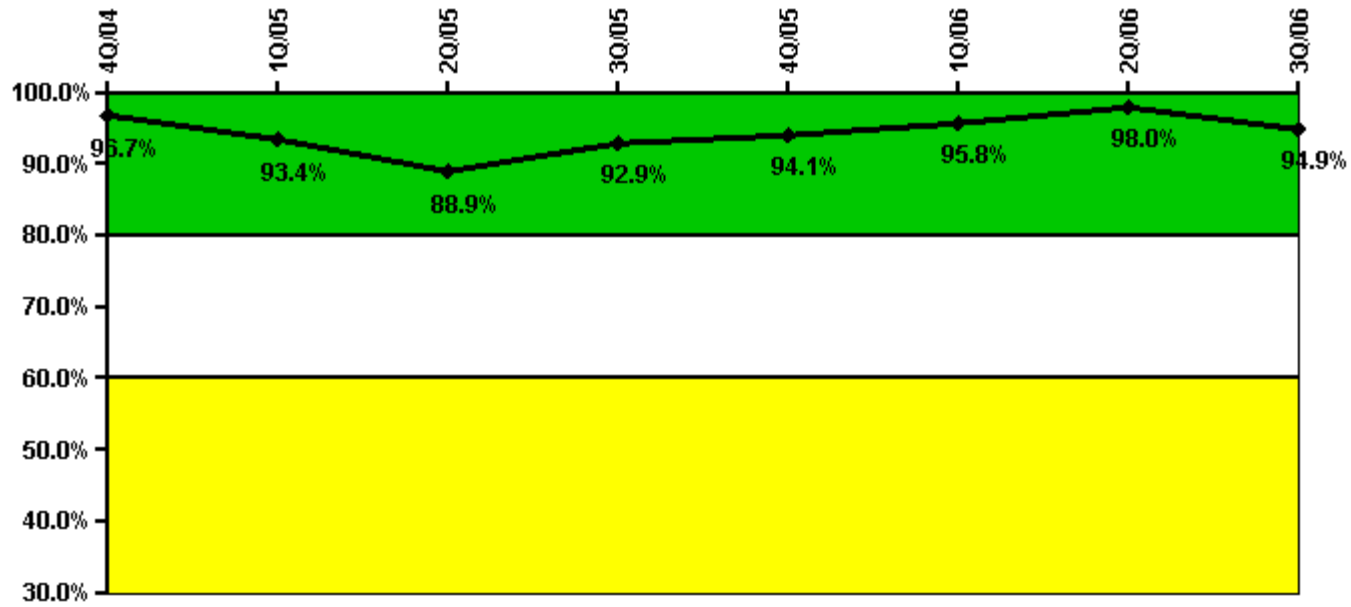
Notes

Drill/Exercise Performance	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful opportunities	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



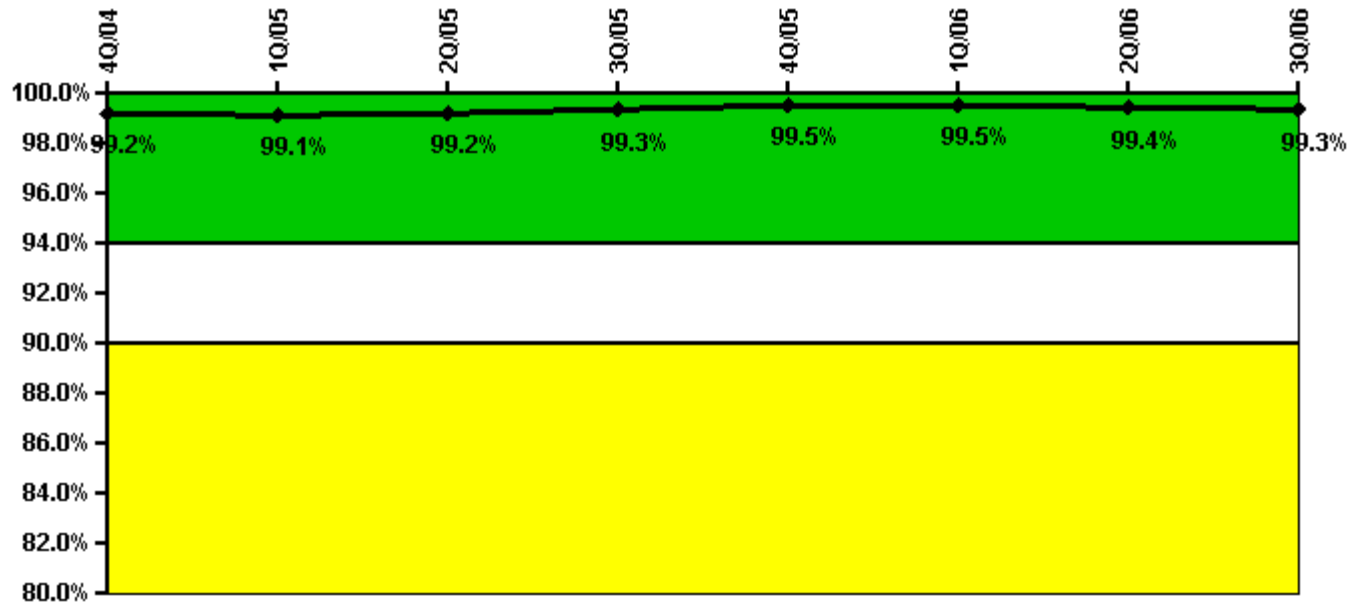
Thresholds: White < 80.0% Yellow < 60.0%

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



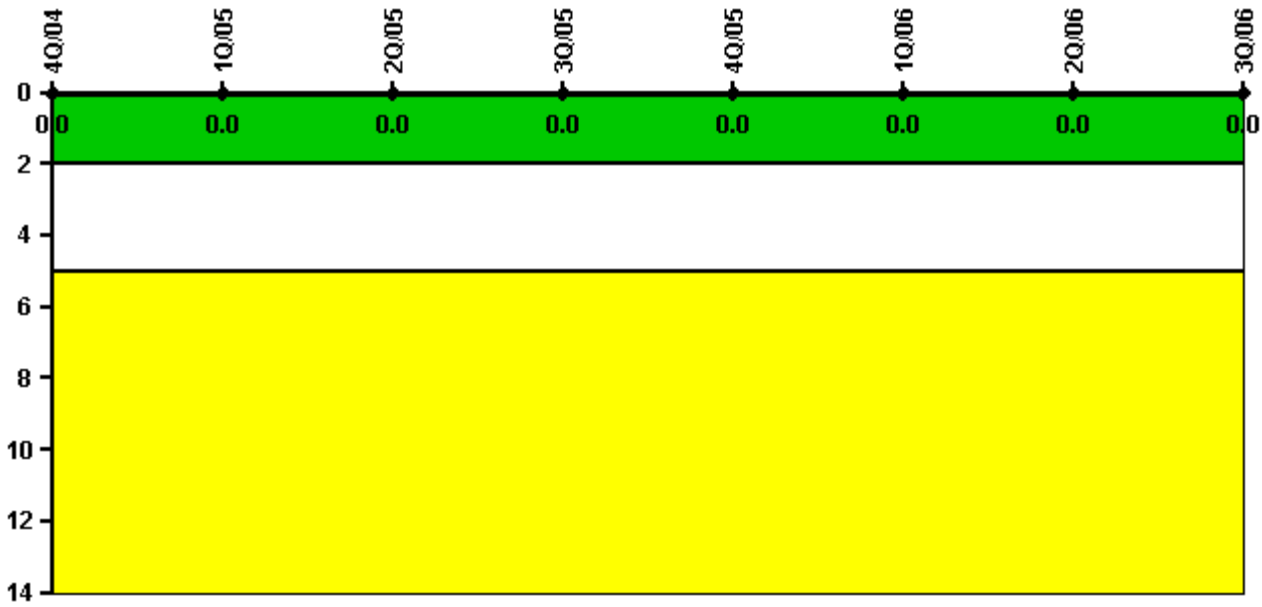
Thresholds: White < 94.0% Yellow < 90.0%

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



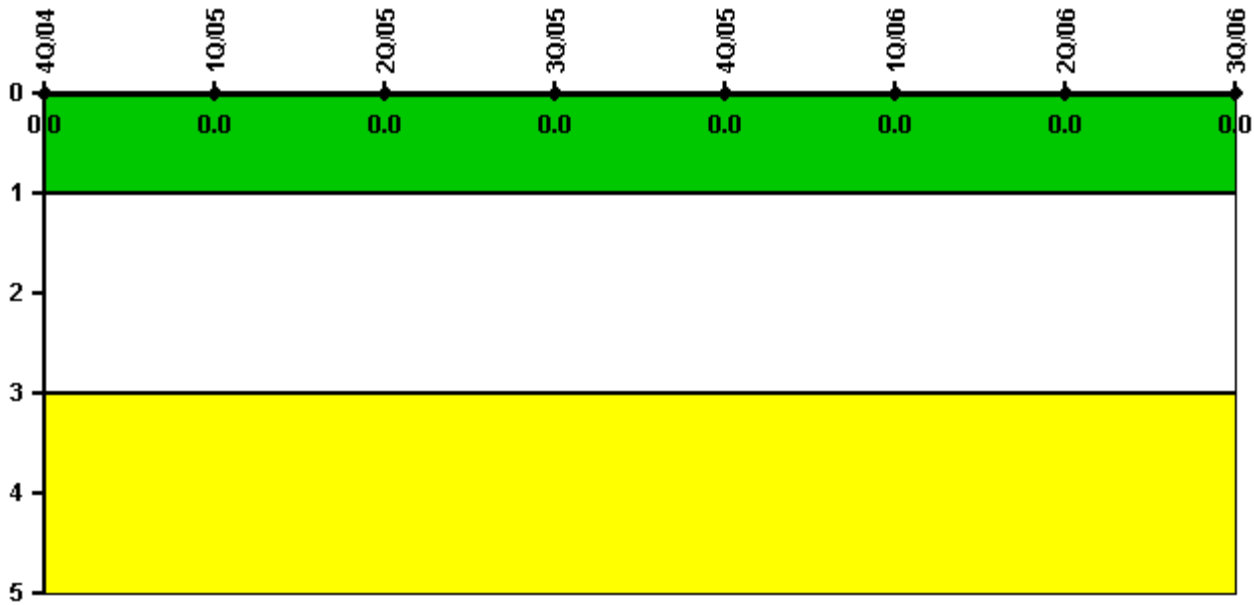
Thresholds: White > 2.0 Yellow > 5.0

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

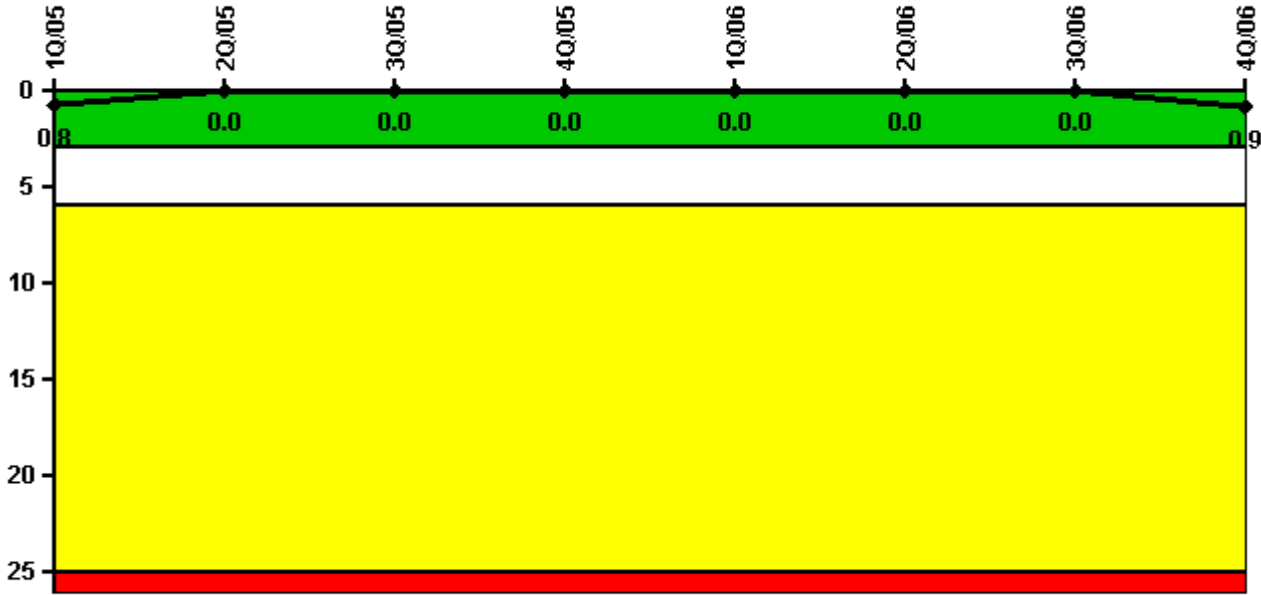
[Physical Protection](#) information not publicly available.

Surry 2

4Q/2006 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



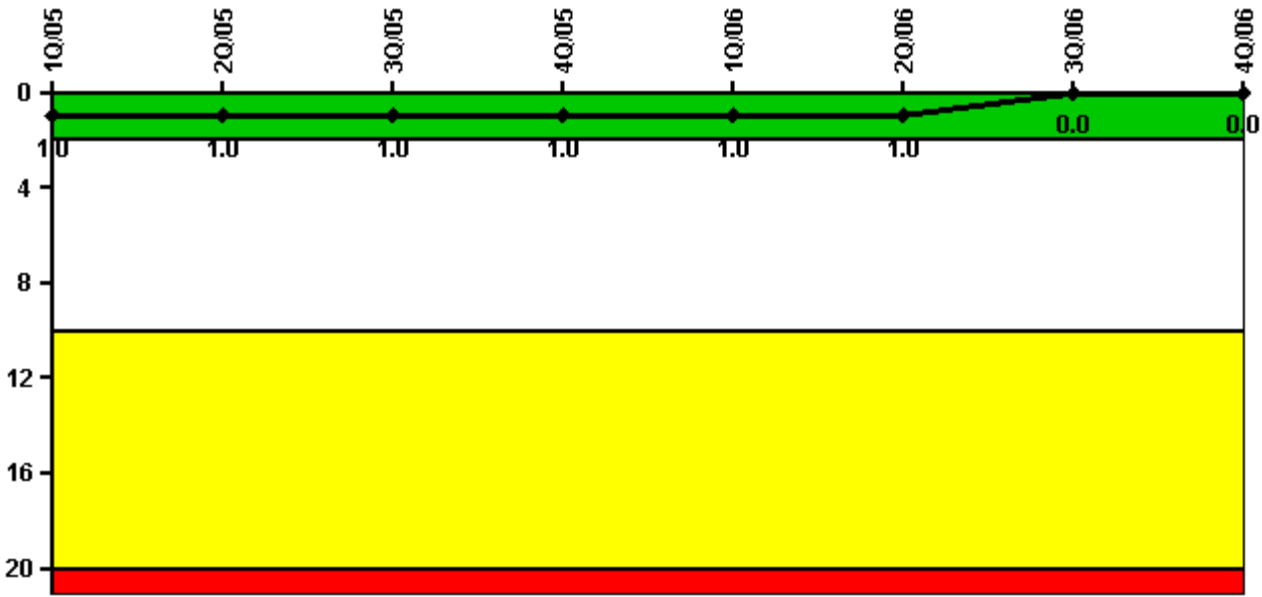
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	2160.0	1505.8	2208.0	2209.0	2160.0	2183.0	2208.0	1170.7
Indicator value	0.8	0	0	0	0	0	0	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



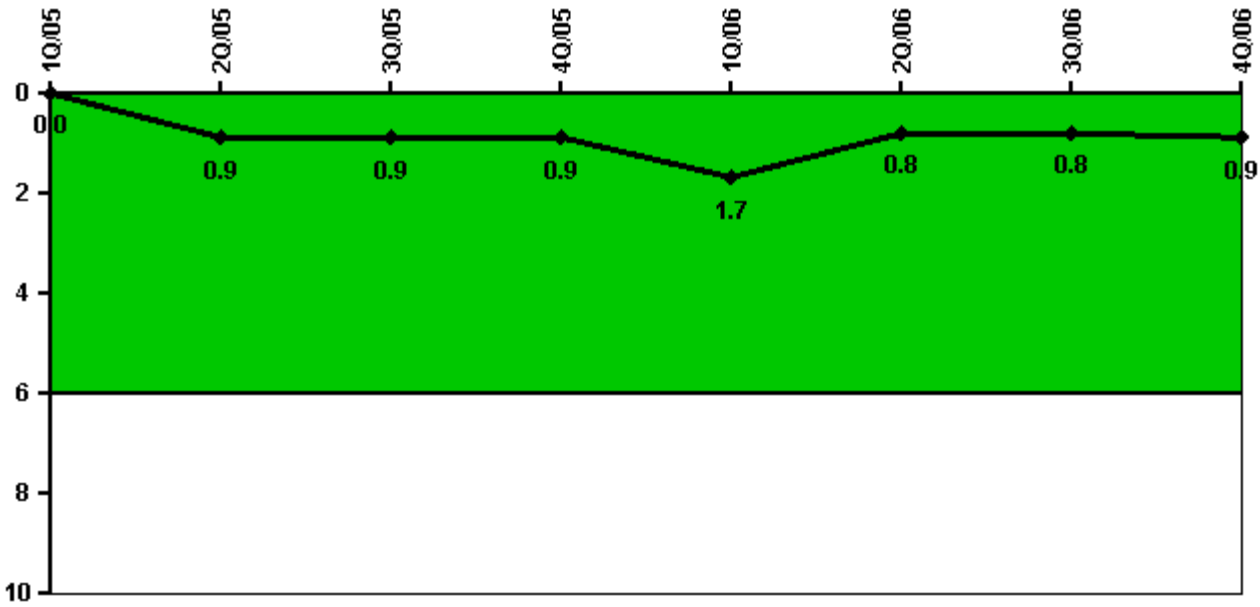
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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



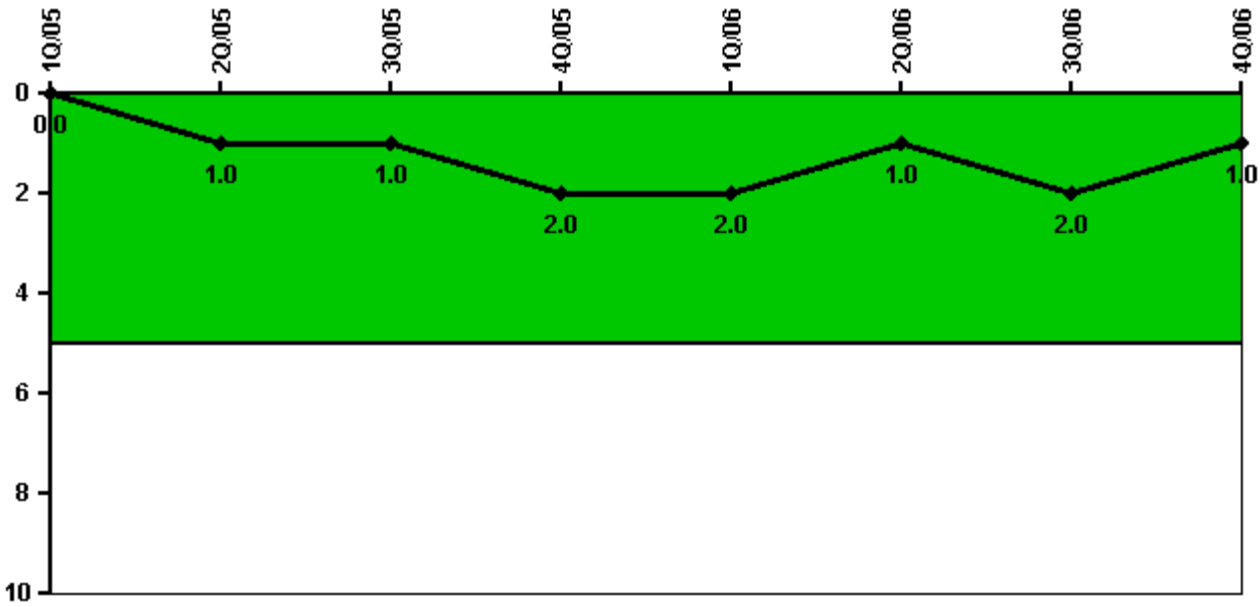
Thresholds: White > 6.0

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	1.0	0	0	1.0	0	0	0
Critical hours	2160.0	1505.8	2208.0	2209.0	2160.0	2183.0	2208.0	1170.7
Indicator value	0	0.9	0.9	0.9	1.7	0.8	0.8	0.9

Licensee Comments: none

Safety System Functional Failures (PWR)



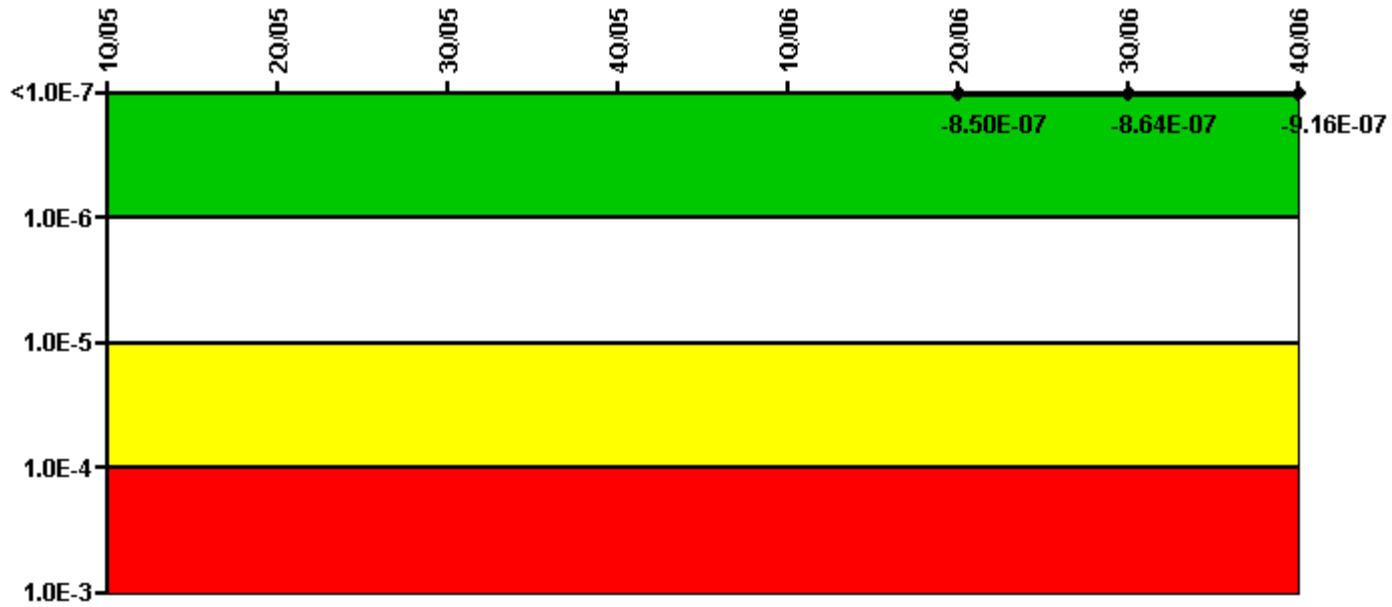
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



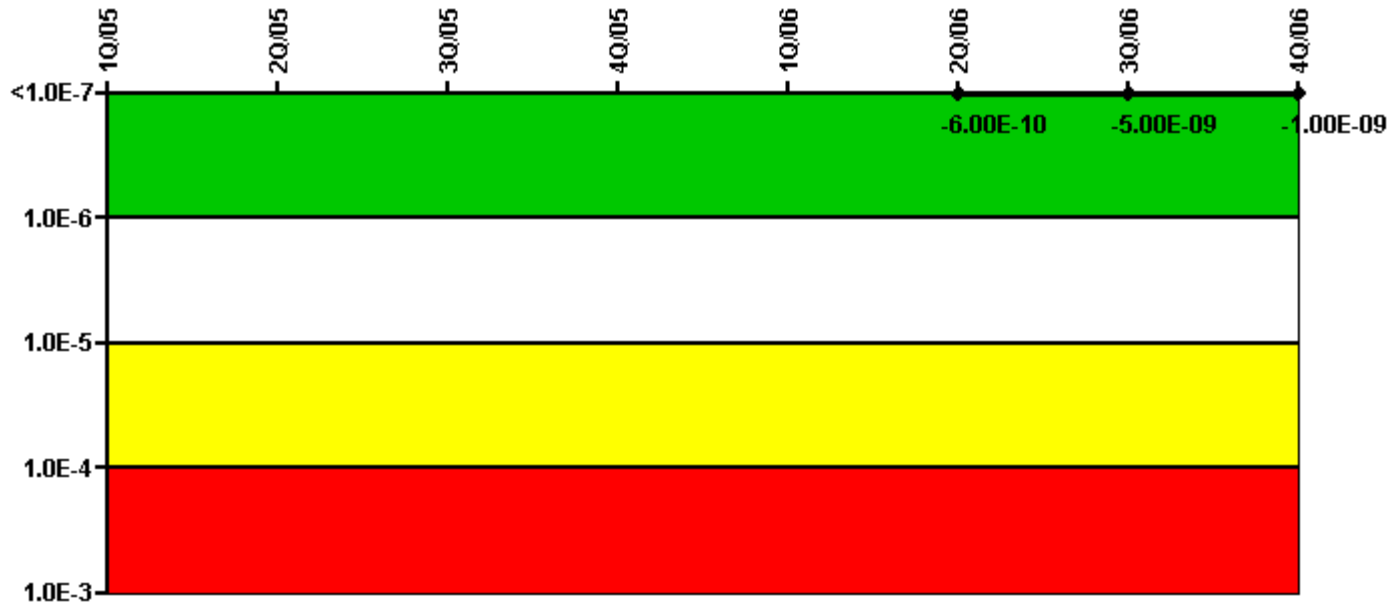
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (Δ CDF)						1.10E-07	7.60E-08	7.40E-08
URI (Δ CDF)						-9.60E-07	-9.40E-07	-9.90E-07
PLE						NO	NO	NO
Indicator value						-8.50E-07	-8.64E-07	-9.16E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



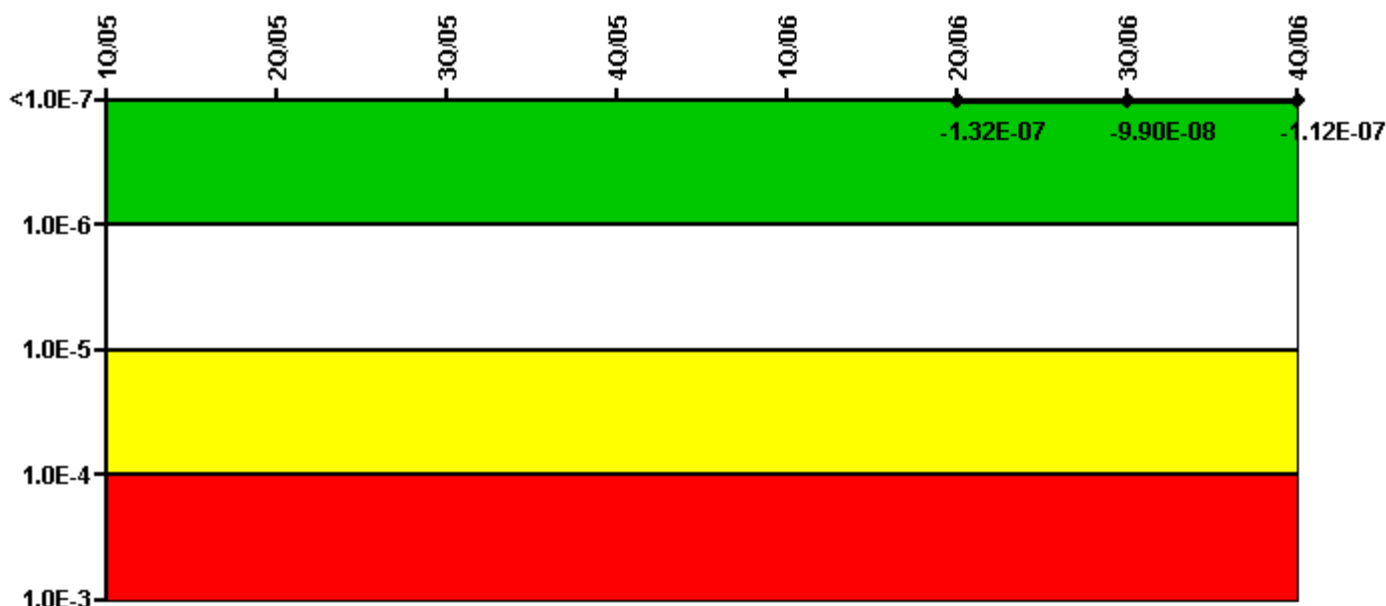
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (Δ CDF)						4.80E-09	4.60E-09	1.00E-08
URI (Δ CDF)						-5.40E-09	-9.60E-09	-1.10E-08
PLE						NO	NO	NO
Indicator value						-6.00E-10	-5.00E-09	-1.00E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



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

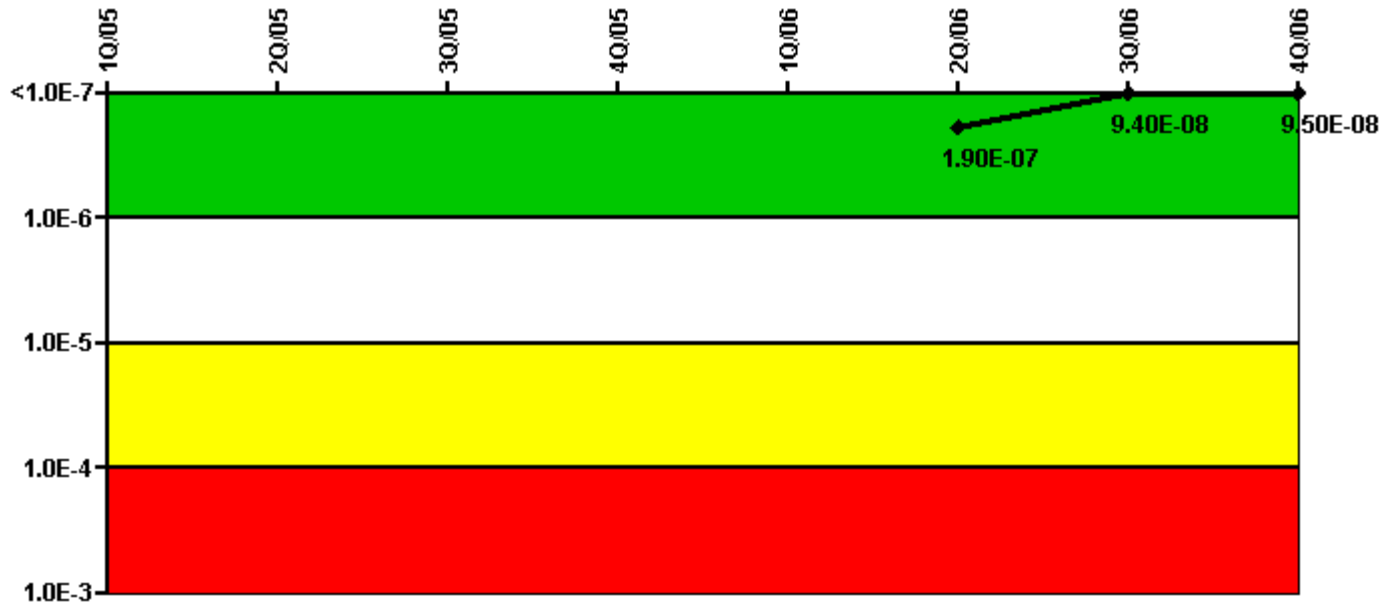
Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						-1.20E-08	1.10E-08	8.50E-09
URI (ΔCDF)						-1.20E-07	-1.10E-07	-1.20E-07
PLE						NO	NO	NO
Indicator value						-1.32E-07	-9.90E-08	-1.12E-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



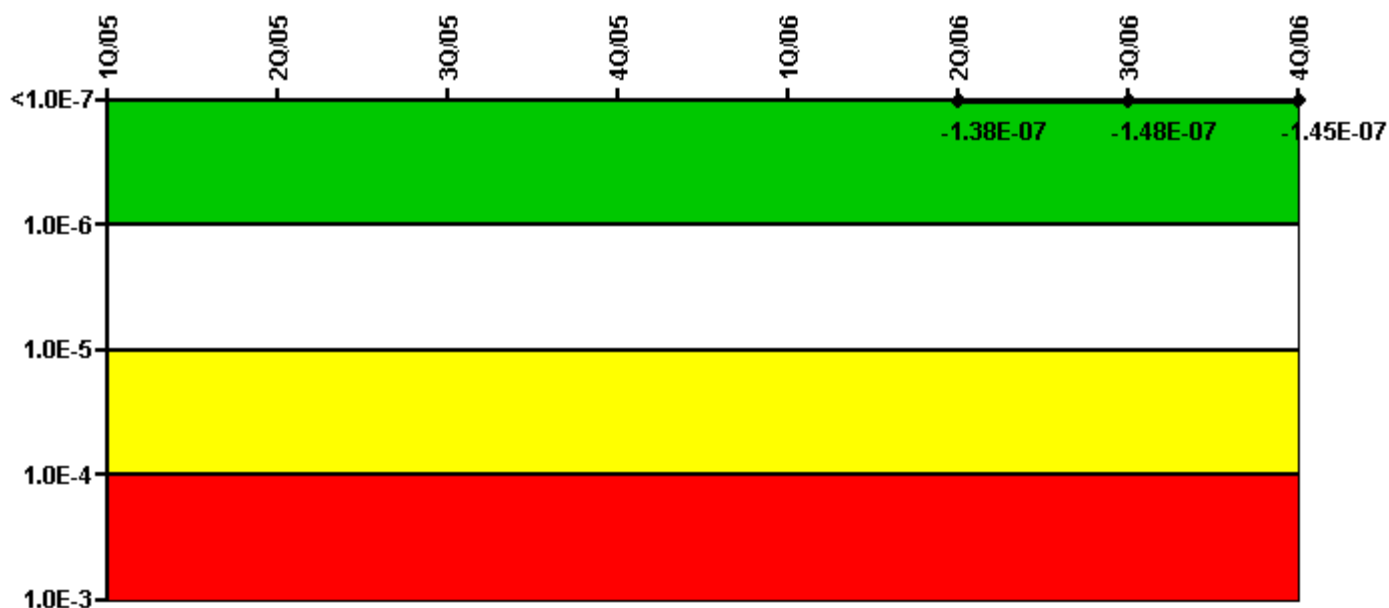
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)						2.00E-08	1.90E-08	1.70E-08
URI (Δ CDF)						1.70E-07	7.50E-08	7.80E-08
PLE						NO	NO	NO
Indicator value						1.90E-07	9.40E-08	9.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

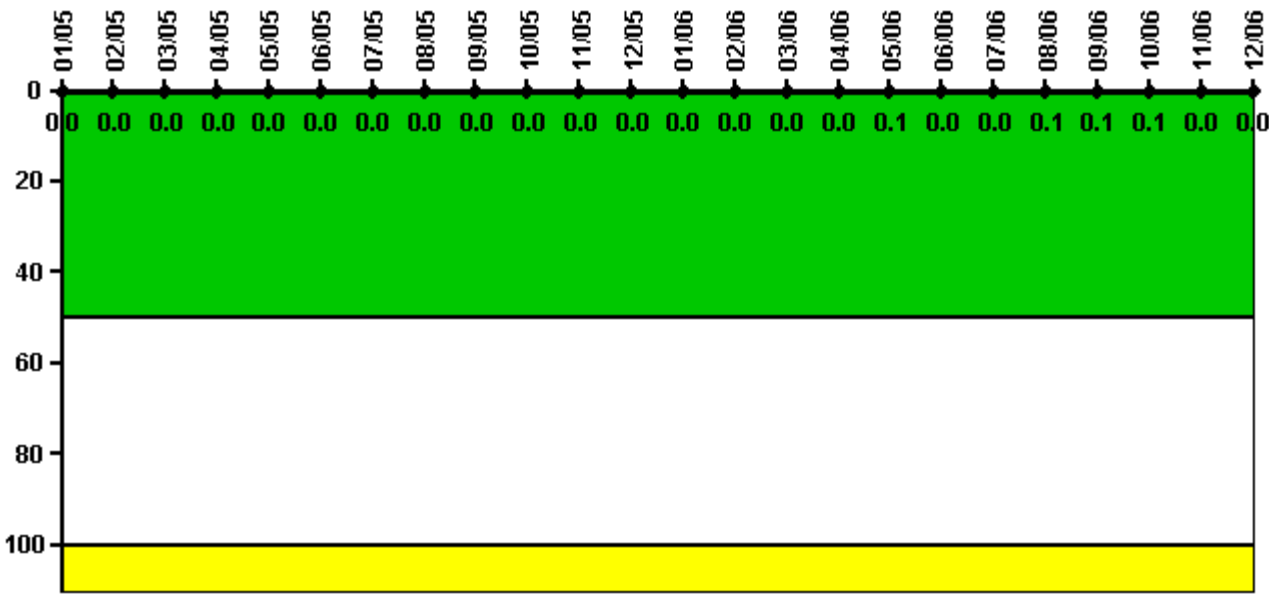
Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (Δ CDF)						-7.50E-09	-8.00E-09	-4.80E-09
URI (Δ CDF)						-1.30E-07	-1.40E-07	-1.40E-07
PLE						NO	NO	NO
Indicator value						-1.38E-07	-1.48E-07	-1.45E-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

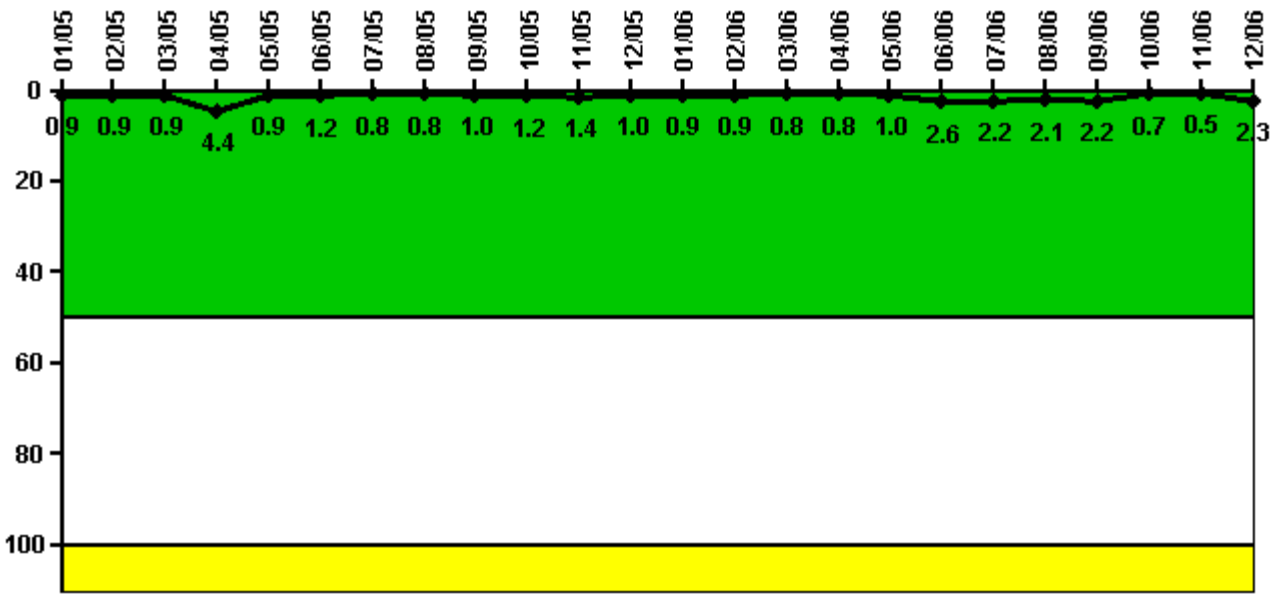
Notes

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	0.000390	0.000395	0.000403	0.000433	0.000313	0.000404	0.000334	0.000326	0.000323	0.000395	0.000358	0.000358
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum activity	0.000422	0.000347	0.000470	0.000473	0.000508	0.000487	0.000498	0.000506	0.000815	0.000504	0.000298	0.000386
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0.1	0	0	0.1	0.1	0.1	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

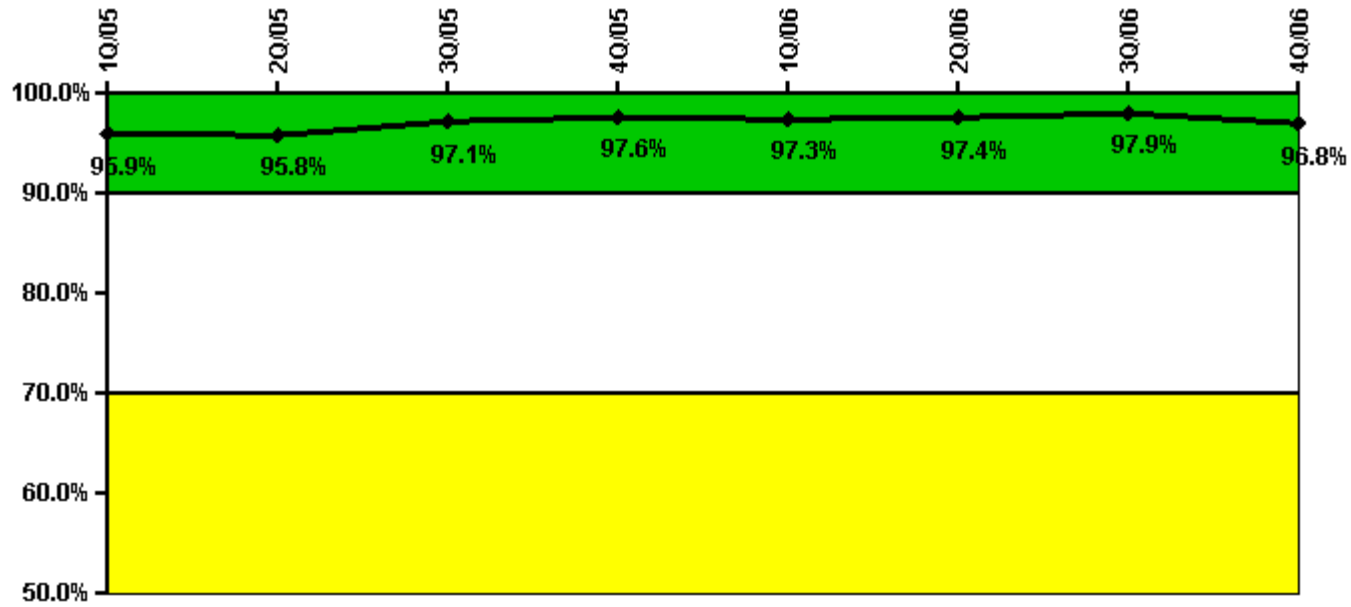
Notes

Reactor Coolant System Leakage	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
Maximum leakage	0.090	0.090	0.090	0.440	0.090	0.120	0.080	0.080	0.100	0.120	0.140	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	0.9	0.9	0.9	4.4	0.9	1.2	0.8	0.8	1.0	1.2	1.4	1.0

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	0.090	0.090	0.080	0.080	0.100	0.260	0.220	0.210	0.220	0.070	0.050	0.230
Technical specification limit	10.0	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	0.8	1.0	2.6	2.2	2.1	2.2	0.7	0.5	2.3

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

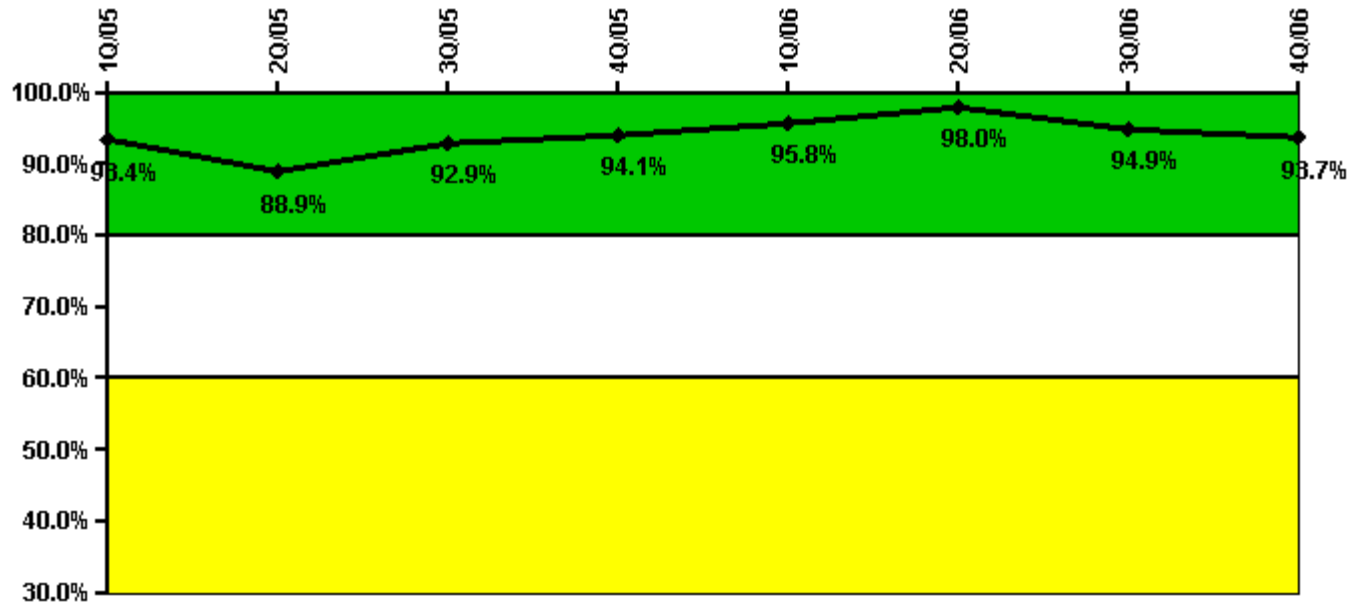
Notes

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



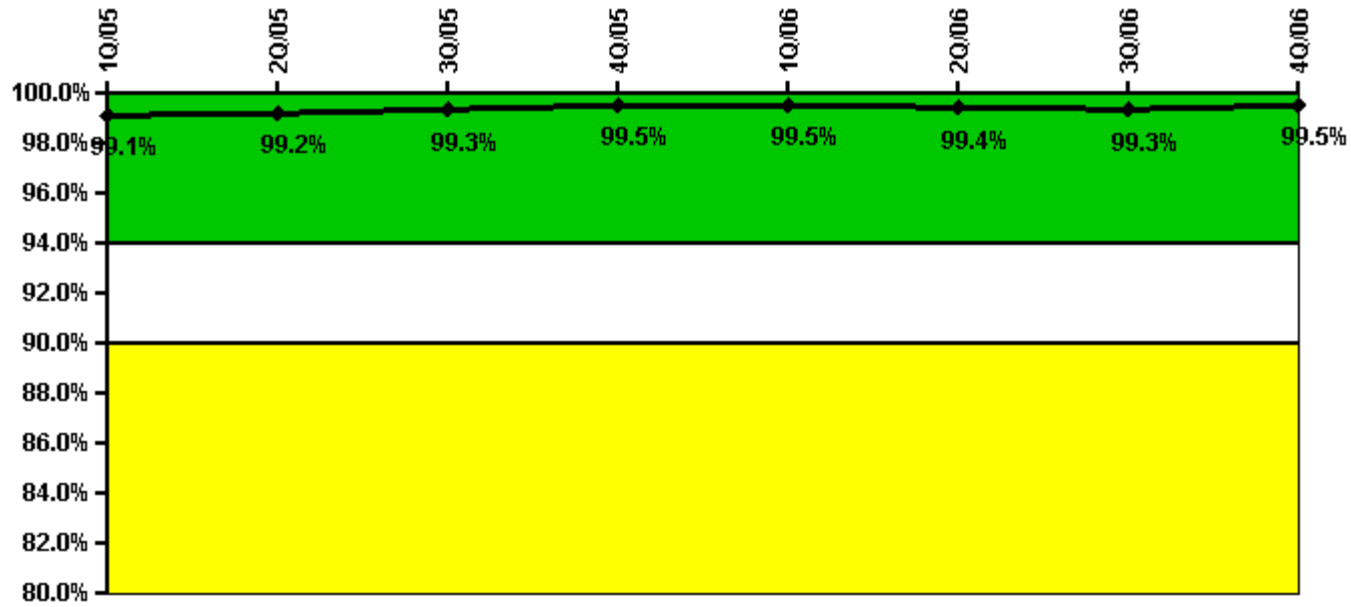
Thresholds: White < 80.0% Yellow < 60.0%

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



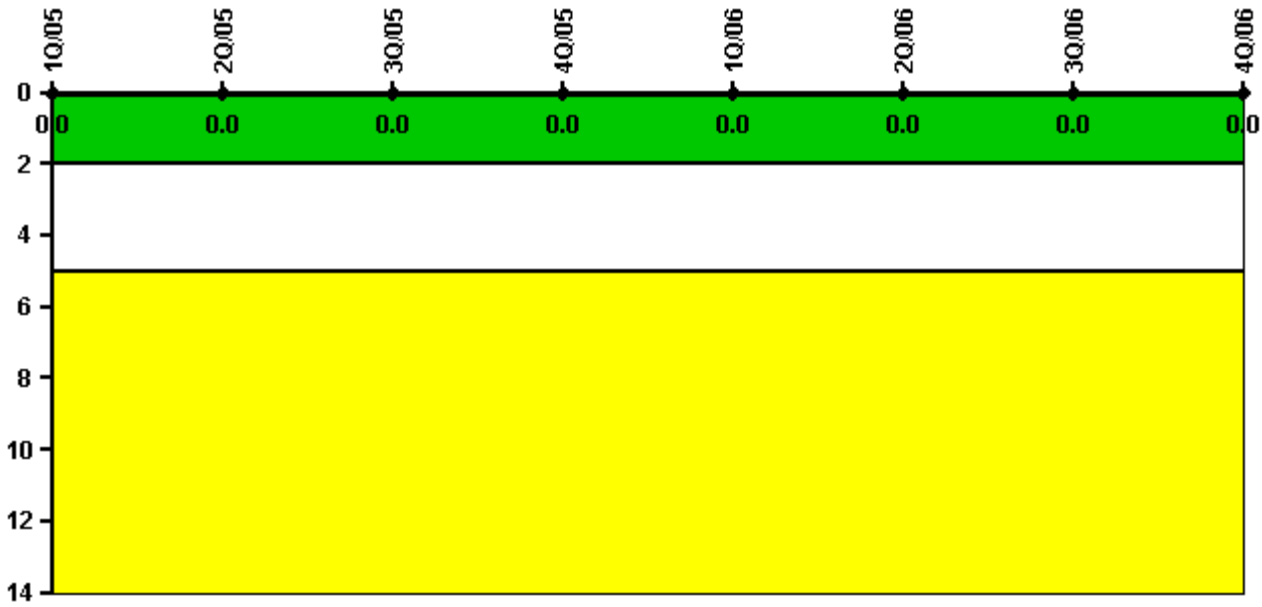
Thresholds: White < 94.0% Yellow < 90.0%

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



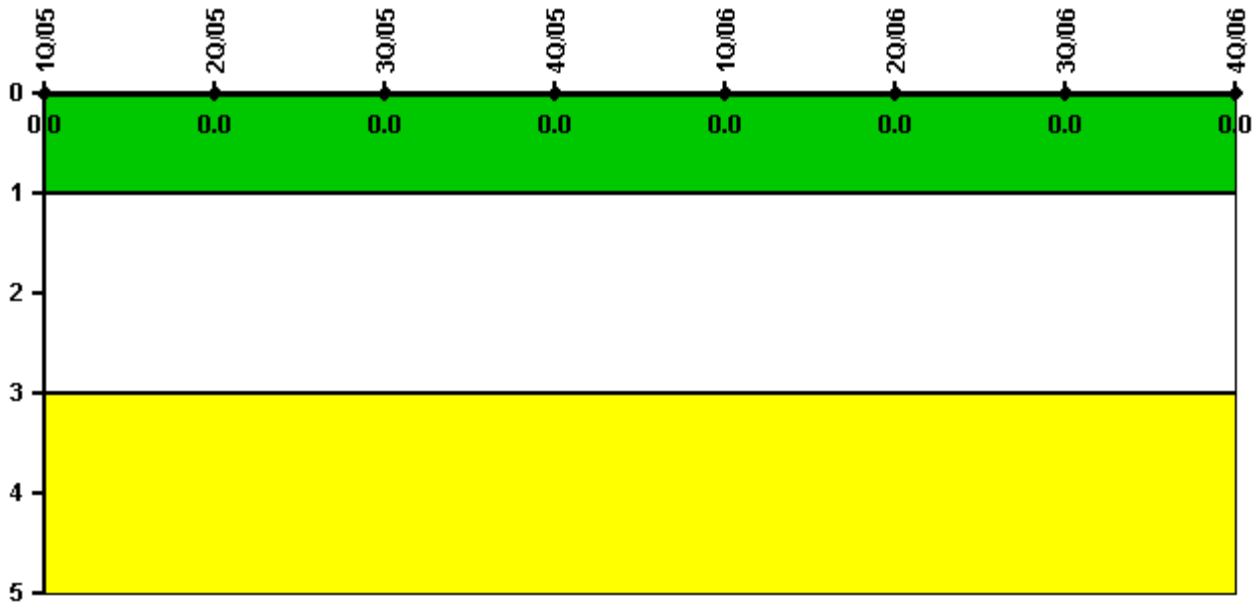
Thresholds: White > 2.0 Yellow > 5.0

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

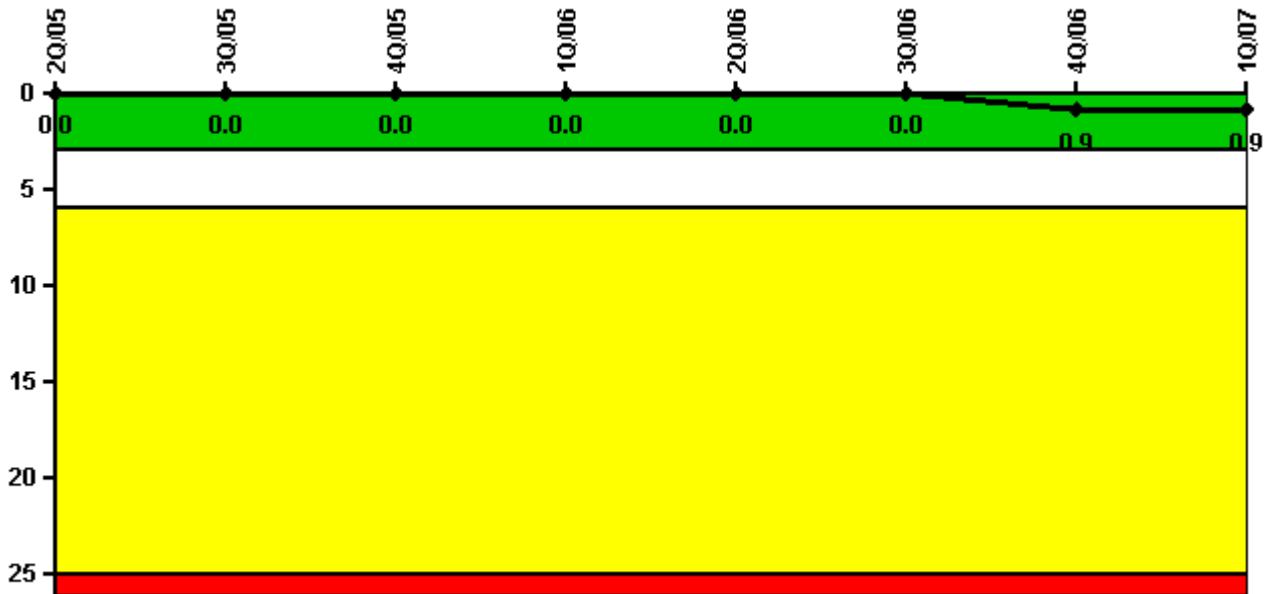
[Physical Protection](#) information not publicly available.

Surry 2

1Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



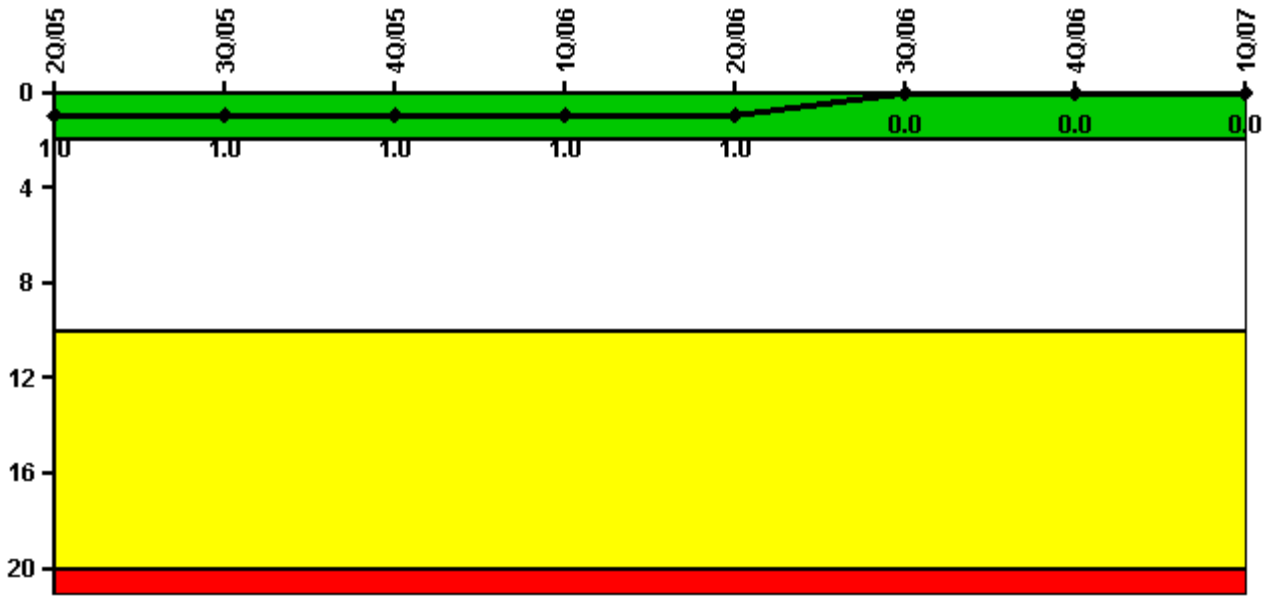
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	1505.8	2208.0	2209.0	2160.0	2183.0	2208.0	1170.7	2159.0
Indicator value	0	0	0	0	0	0	0.9	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



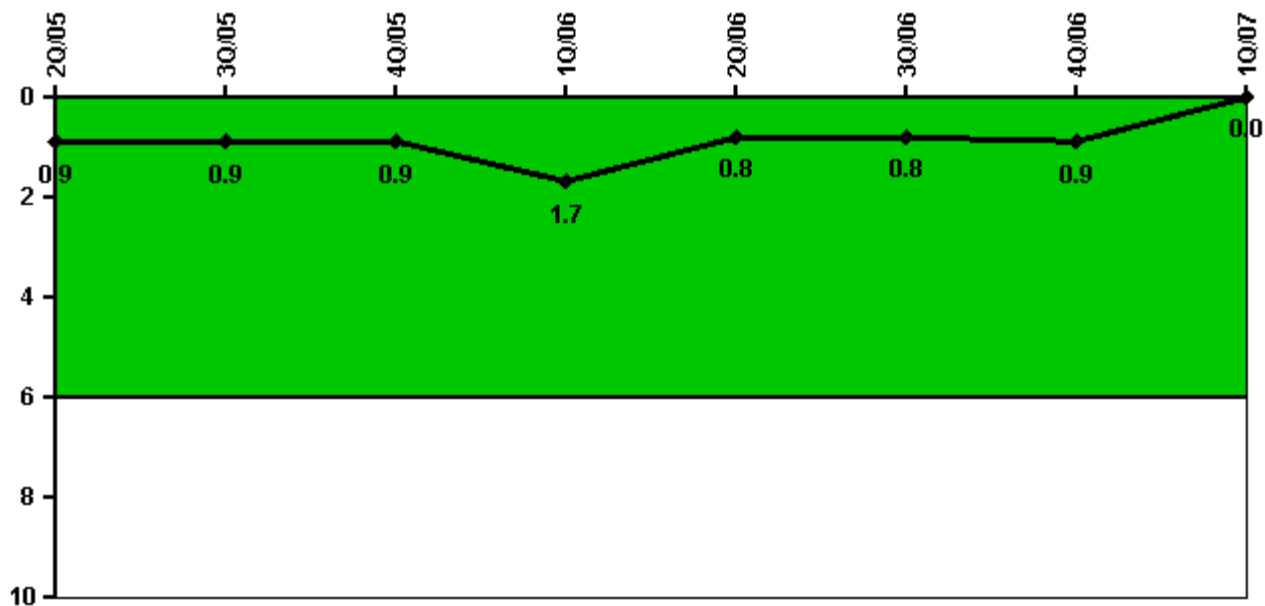
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	1.0	0	0	1.0	0	0	0	0
Critical hours	1505.8	2208.0	2209.0	2160.0	2183.0	2208.0	1170.7	2159.0
Indicator value	0.9	0.9	0.9	1.7	0.8	0.8	0.9	0

Licensee Comments: none

Safety System Functional Failures (PWR)



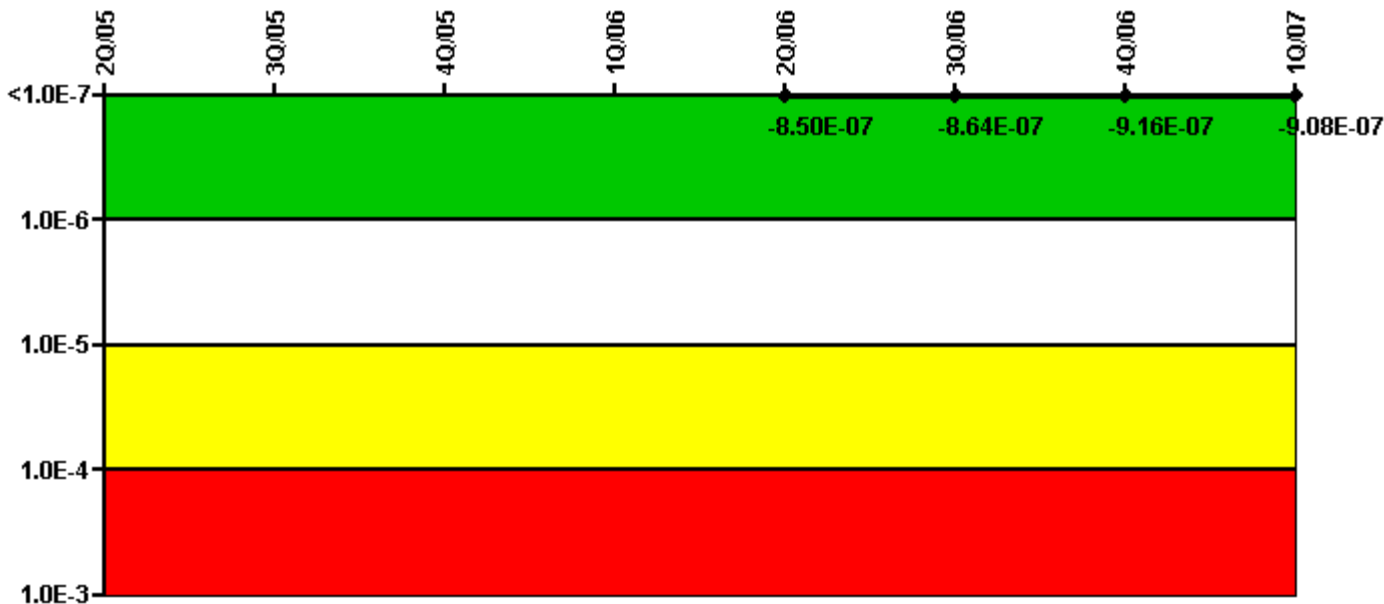
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

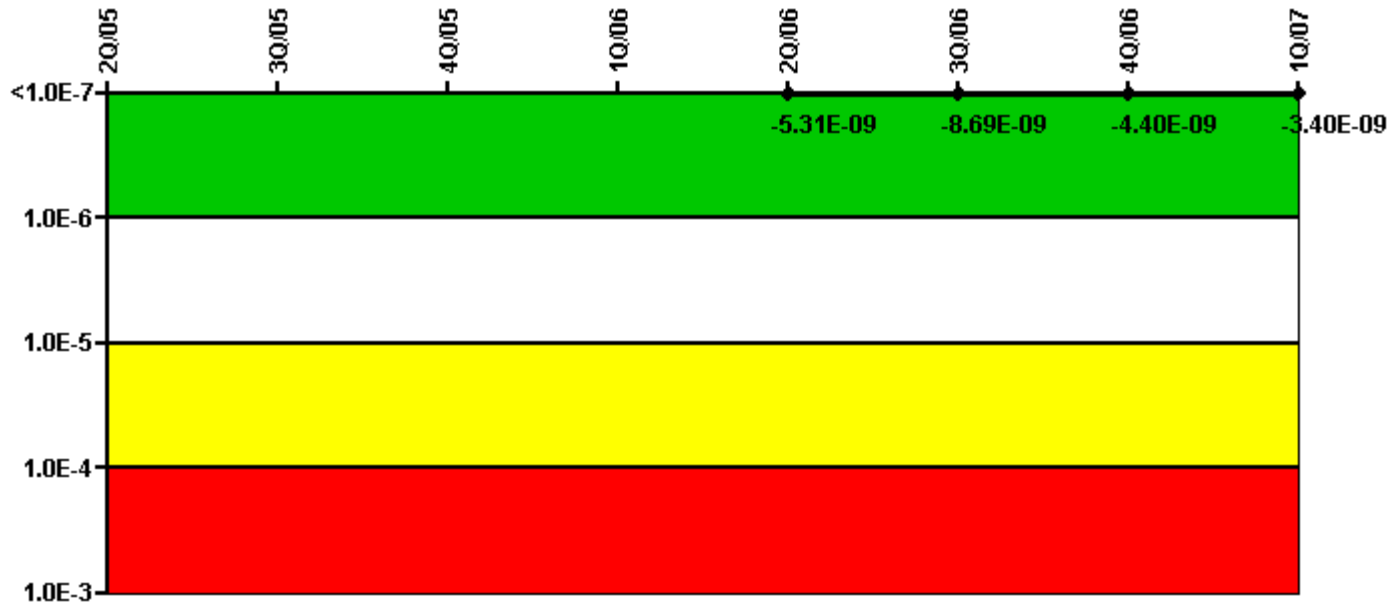
Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					1.10E-07	7.60E-08	7.40E-08	7.20E-08
URI (ΔCDF)					-9.60E-07	-9.40E-07	-9.90E-07	-9.80E-07
PLE					NO	NO	NO	NO
Indicator value					-8.50E-07	-8.64E-07	-9.16E-07	-9.08E-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, High Pressure Injection System



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

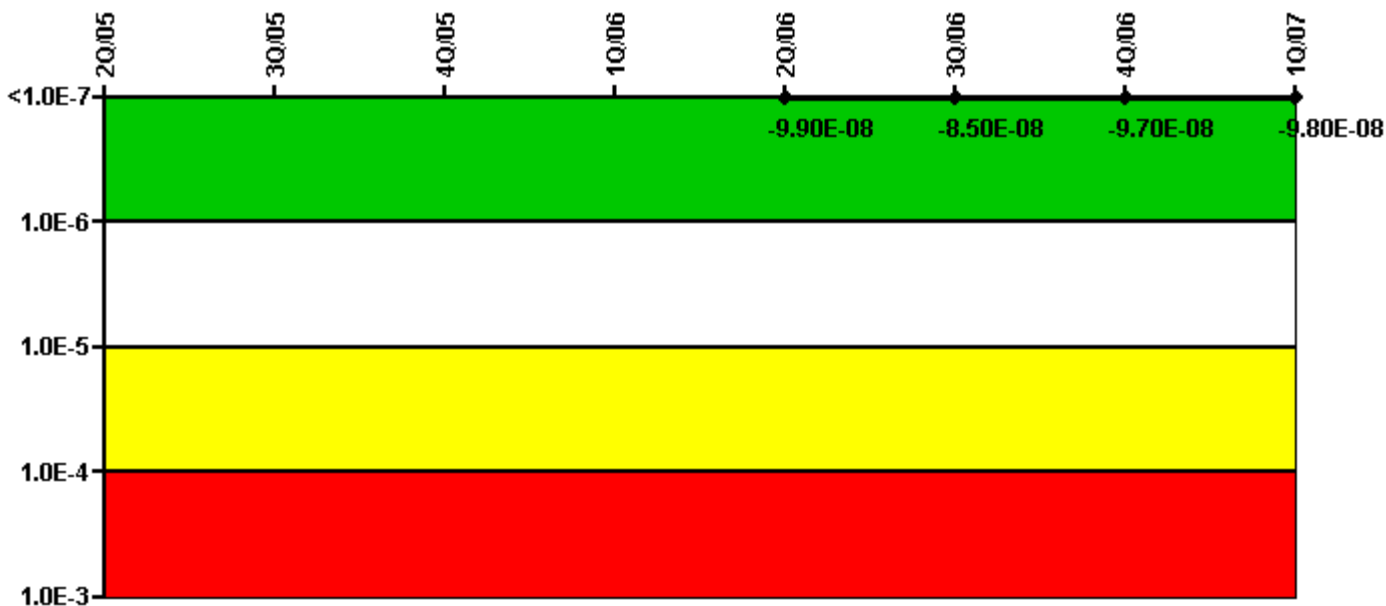
Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (Δ CDF)					2.90E-10	8.10E-10	6.60E-09	7.60E-09
URI (Δ CDF)					-5.60E-09	-9.50E-09	-1.10E-08	-1.10E-08
PLE					NO	NO	NO	NO
Indicator value					-5.31E-09	-8.69E-09	-4.40E-09	-3.40E-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 > $1.00E-4$

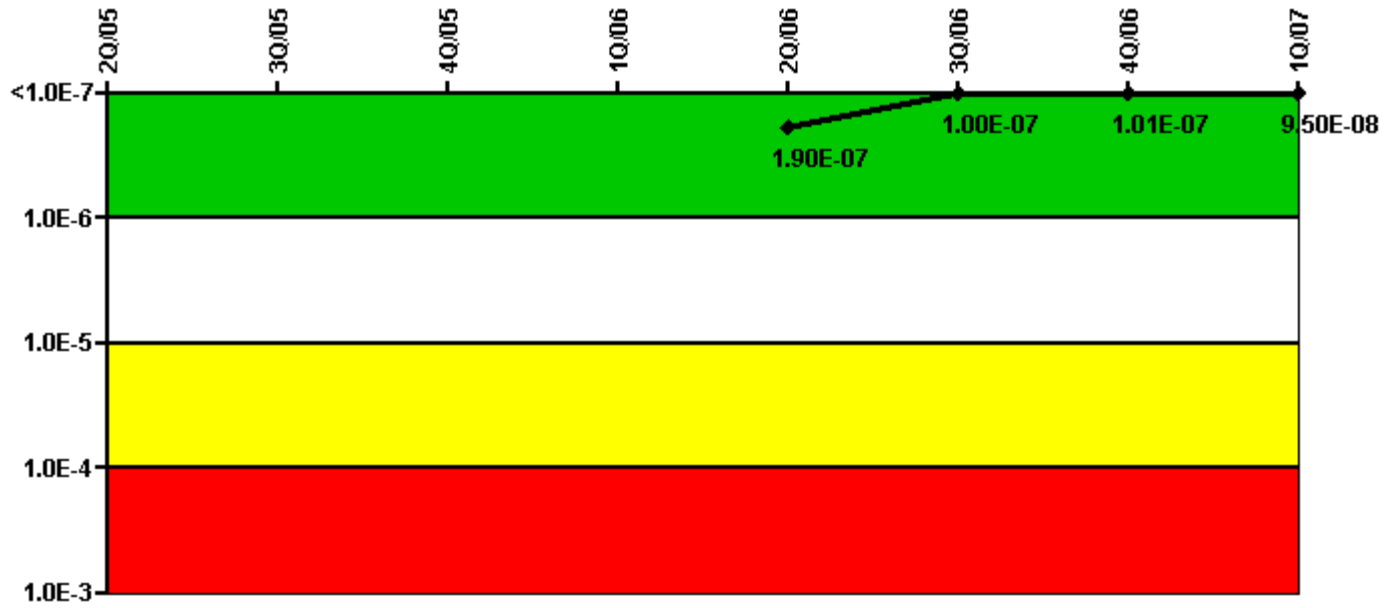
Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (Δ CDF)					$2.10E-08$	$2.50E-08$	$2.30E-08$	$2.20E-08$
URI (Δ CDF)					$-1.20E-07$	$-1.10E-07$	$-1.20E-07$	$-1.20E-07$
PLE					NO	NO	NO	NO
Indicator value					$-9.90E-08$	$-8.50E-08$	$-9.70E-08$	$-9.80E-08$

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, Residual Heat Removal System



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

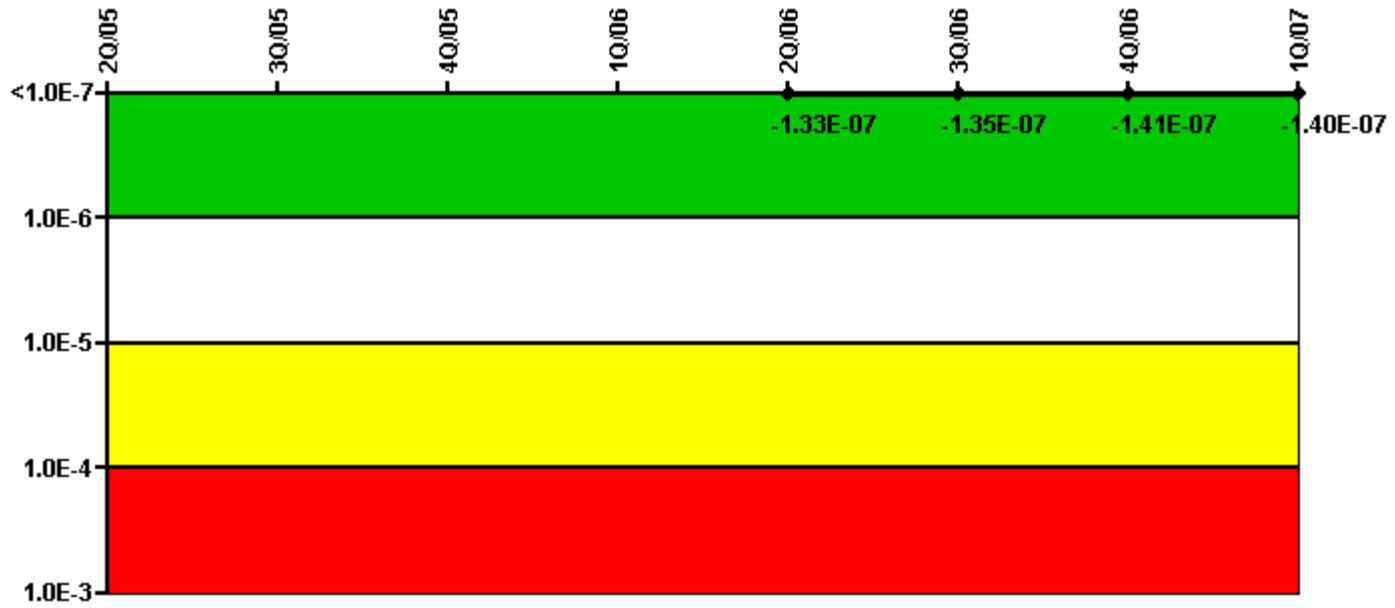
Notes

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)					2.00E-08	2.00E-08	1.70E-08	1.10E-08
URI (ΔCDF)					1.70E-07	8.00E-08	8.40E-08	8.40E-08
PLE					NO	NO	NO	NO
Indicator value					1.90E-07	1.00E-07	1.01E-07	9.50E-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

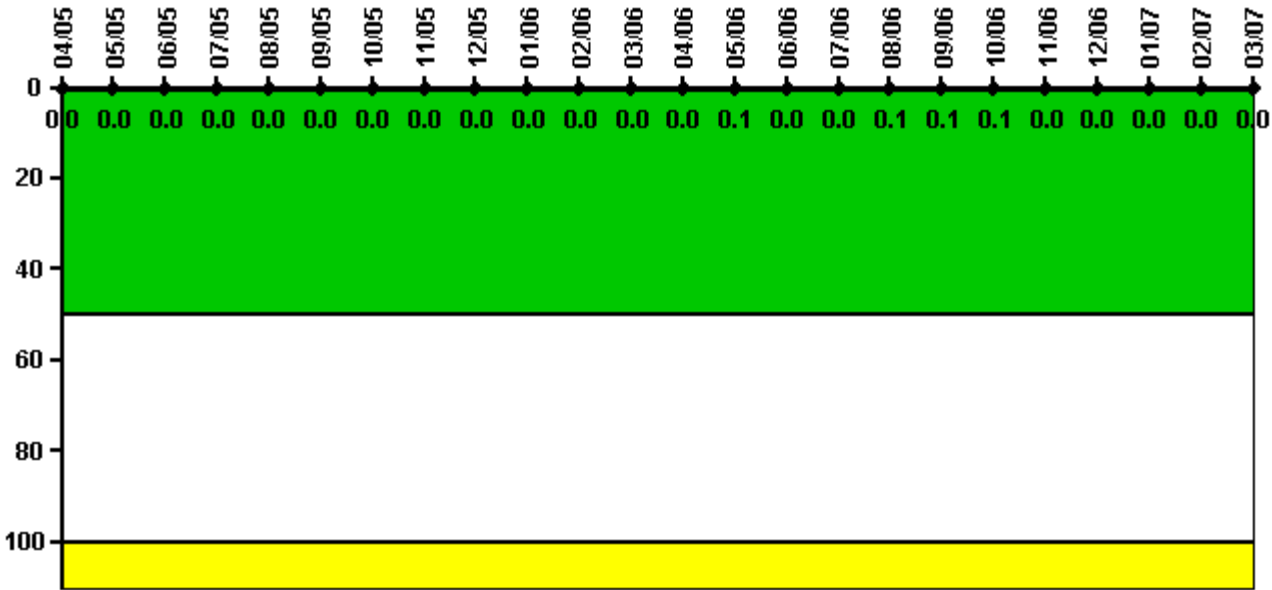
Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (Δ CDF)					-2.50E-09	-5.10E-09	-1.10E-09	1.30E-10
URI (Δ CDF)					-1.30E-07	-1.30E-07	-1.40E-07	-1.40E-07
PLE					NO	NO	NO	NO
Indicator value					-1.33E-07	-1.35E-07	-1.41E-07	-1.40E-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



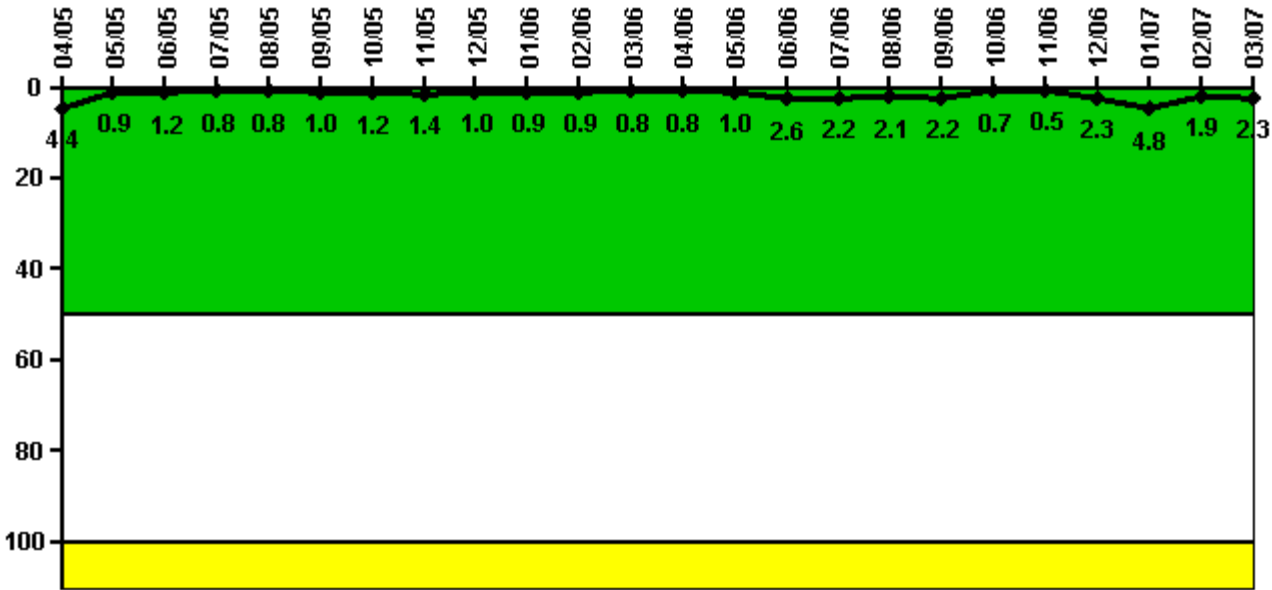
Thresholds: White > 50.0 Yellow > 100.0

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	0.000433	0.000313	0.000404	0.000334	0.000326	0.000323	0.000395	0.000358	0.000358	0.000422	0.000347	0.000470
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum activity	0.000473	0.000508	0.000487	0.000498	0.000506	0.000815	0.000504	0.000298	0.000386	0.000341	0.000394	0.000367
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0.1	0	0	0.1	0.1	0.1	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

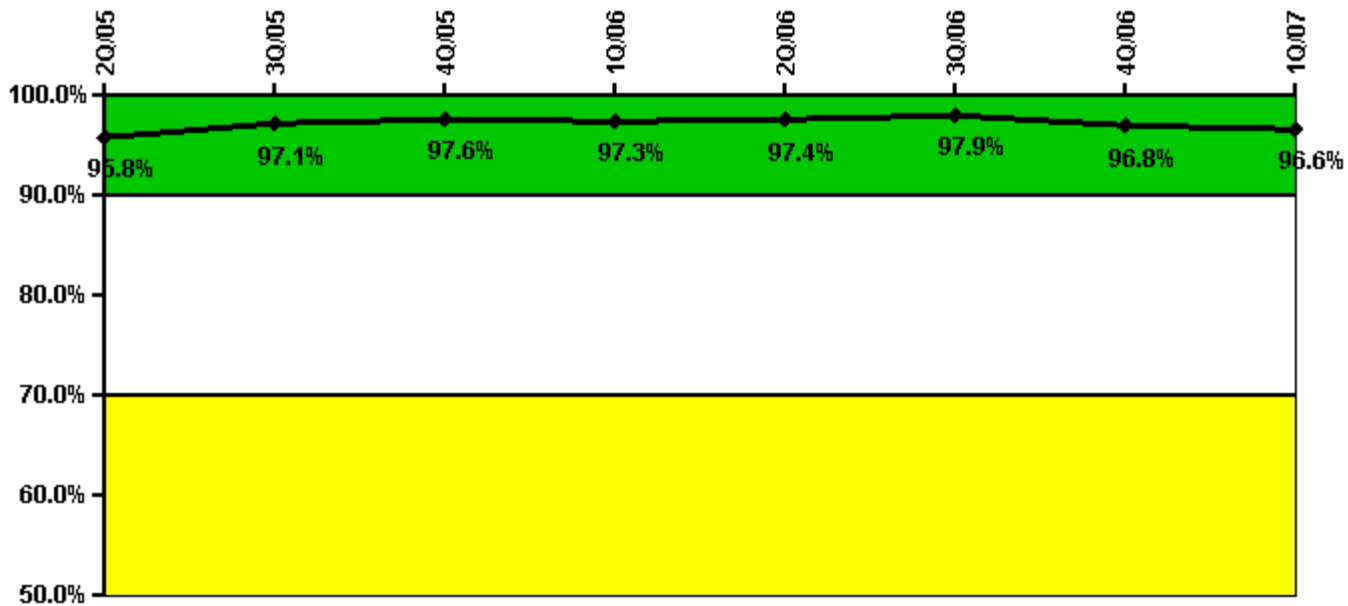
Notes

Reactor Coolant System Leakage	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum leakage	0.440	0.090	0.120	0.080	0.080	0.100	0.120	0.140	0.100	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	4.4	0.9	1.2	0.8	0.8	1.0	1.2	1.4	1.0	0.9	0.9	0.8

Reactor Coolant System Leakage	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum leakage	0.080	0.100	0.260	0.220	0.210	0.220	0.070	0.050	0.230	0.480	0.190	0.230
Technical specification limit	10.0	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	1.0	2.6	2.2	2.1	2.2	0.7	0.5	2.3	4.8	1.9	2.3

Licensee Comments: none

Drill/Exercise Performance



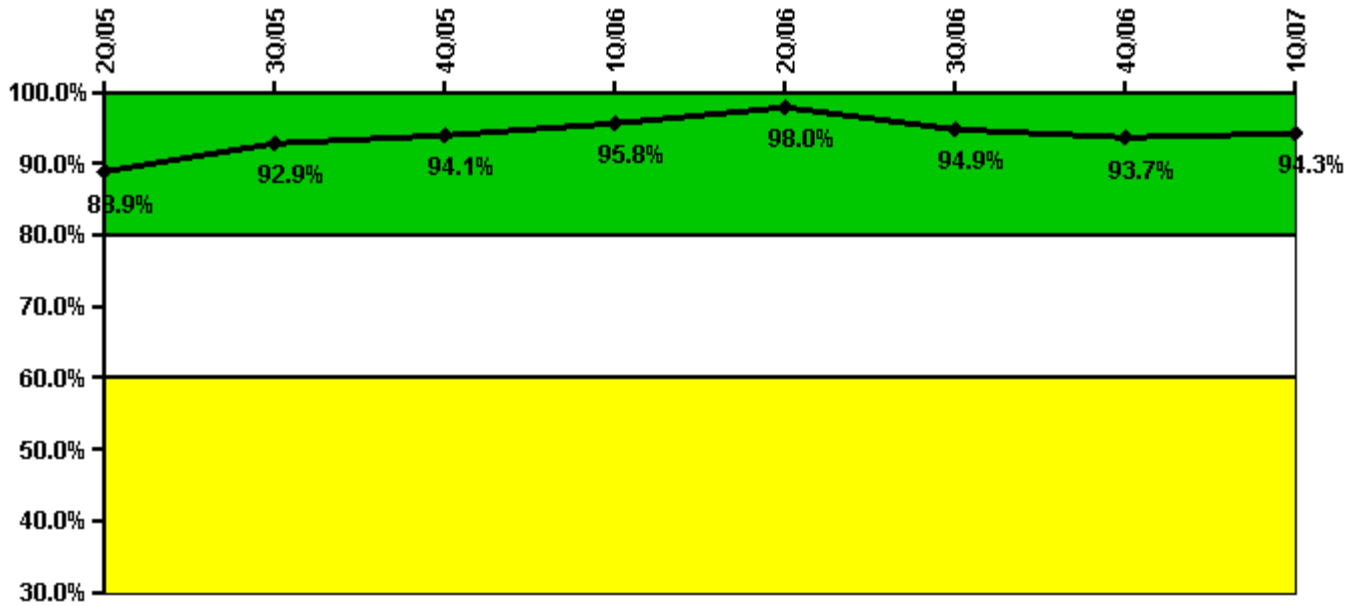
Thresholds: White < 90.0% Yellow < 70.0%

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



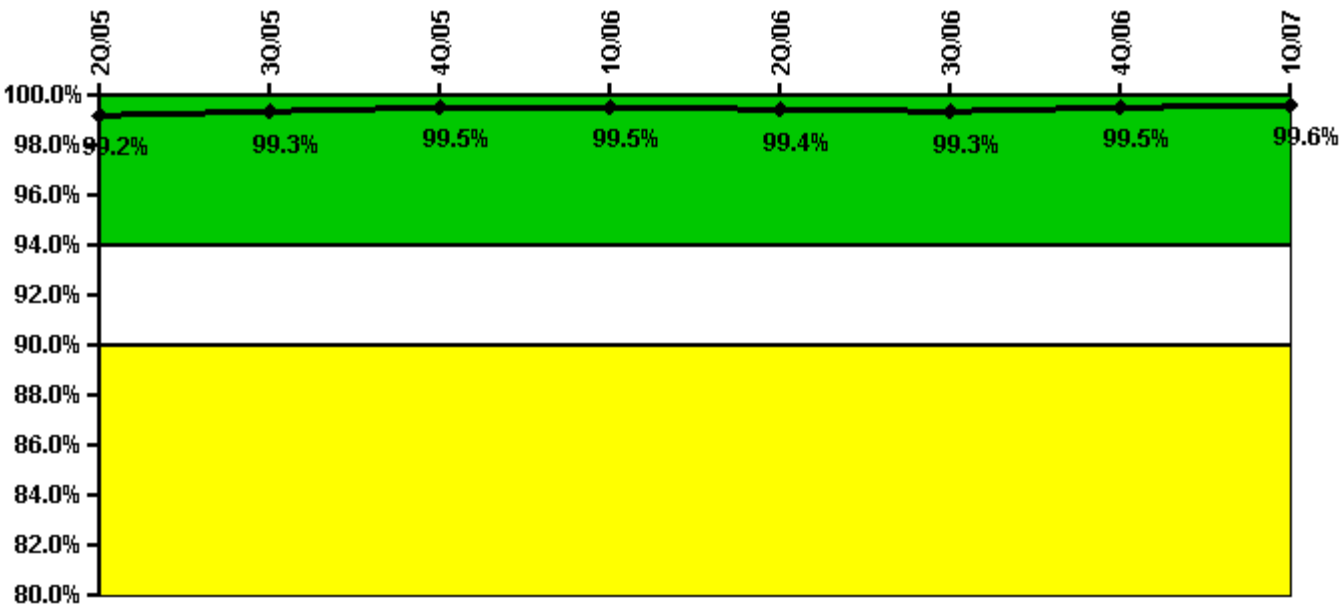
Thresholds: White < 80.0% Yellow < 60.0%

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



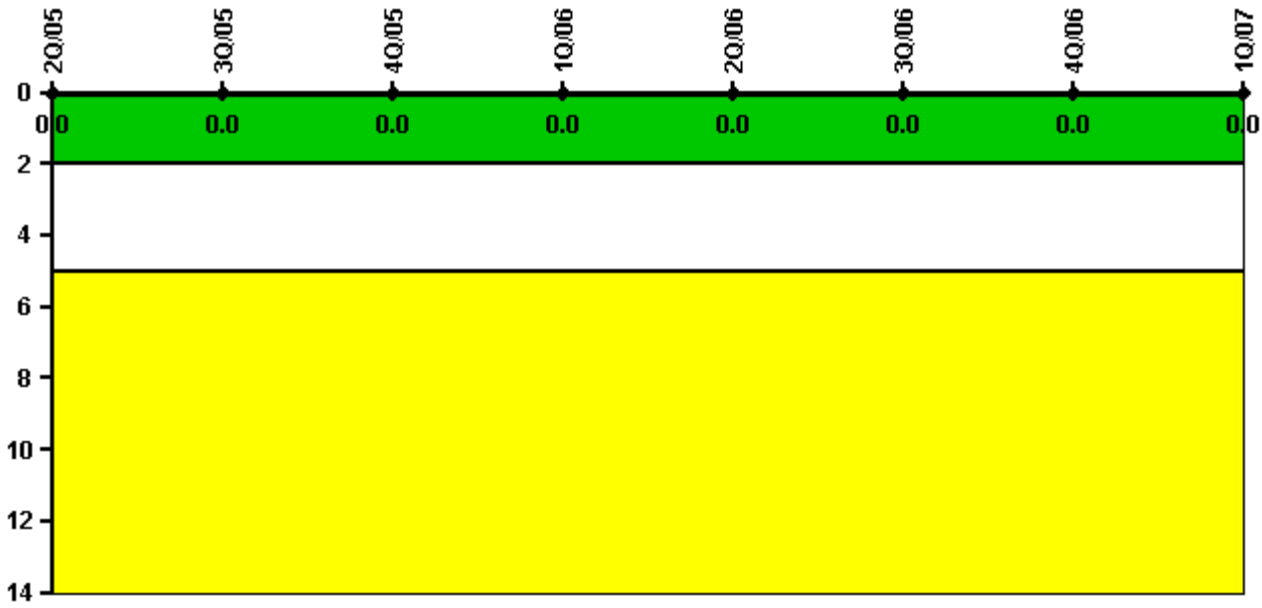
Thresholds: White < 94.0% Yellow < 90.0%

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



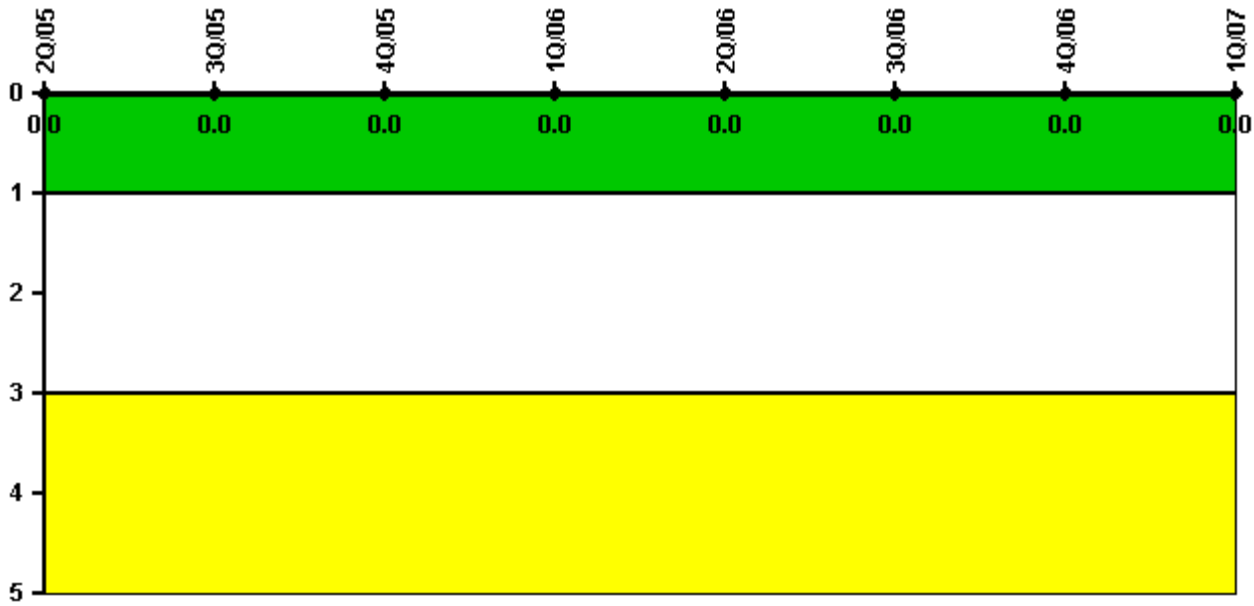
Thresholds: White > 2.0 Yellow > 5.0

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](#)

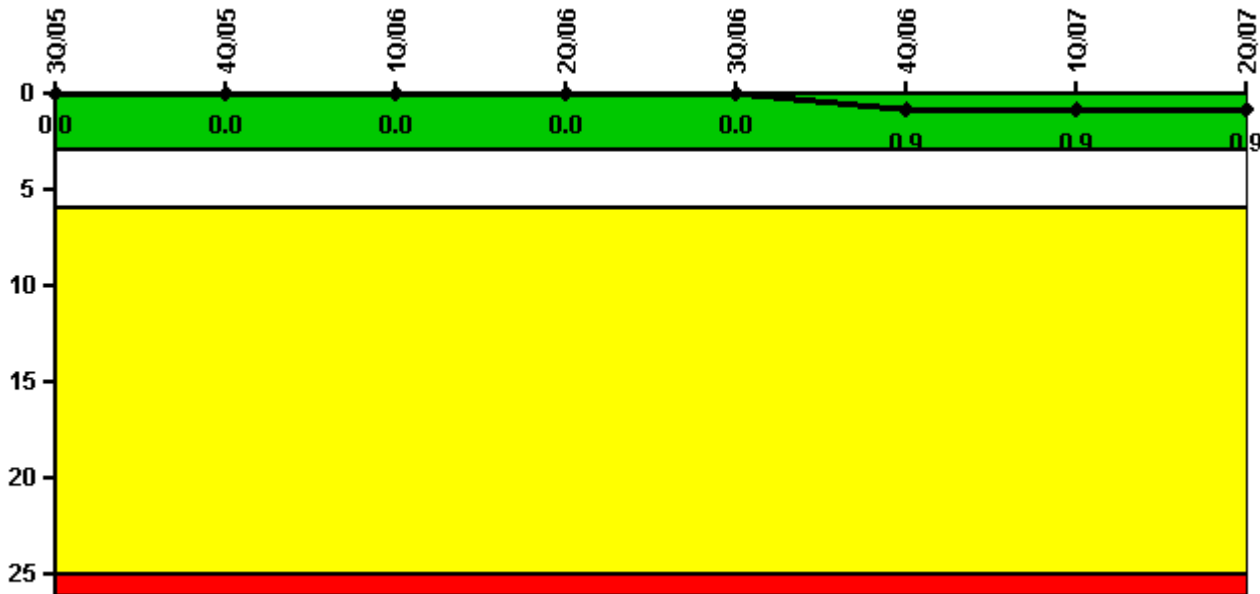
Last Modified: June 1, 2007

Surry 2

2Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



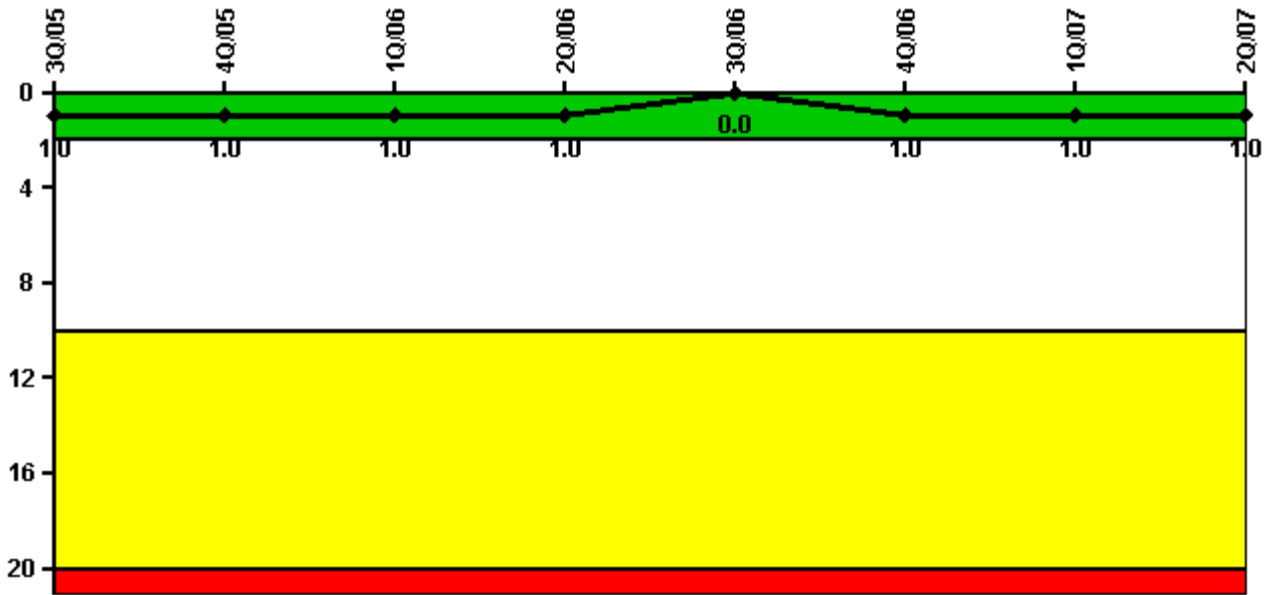
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	2160.0	2183.0	2208.0	1170.7	2159.0	2184.0
Indicator value	0	0	0	0	0	0.9	0.9	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

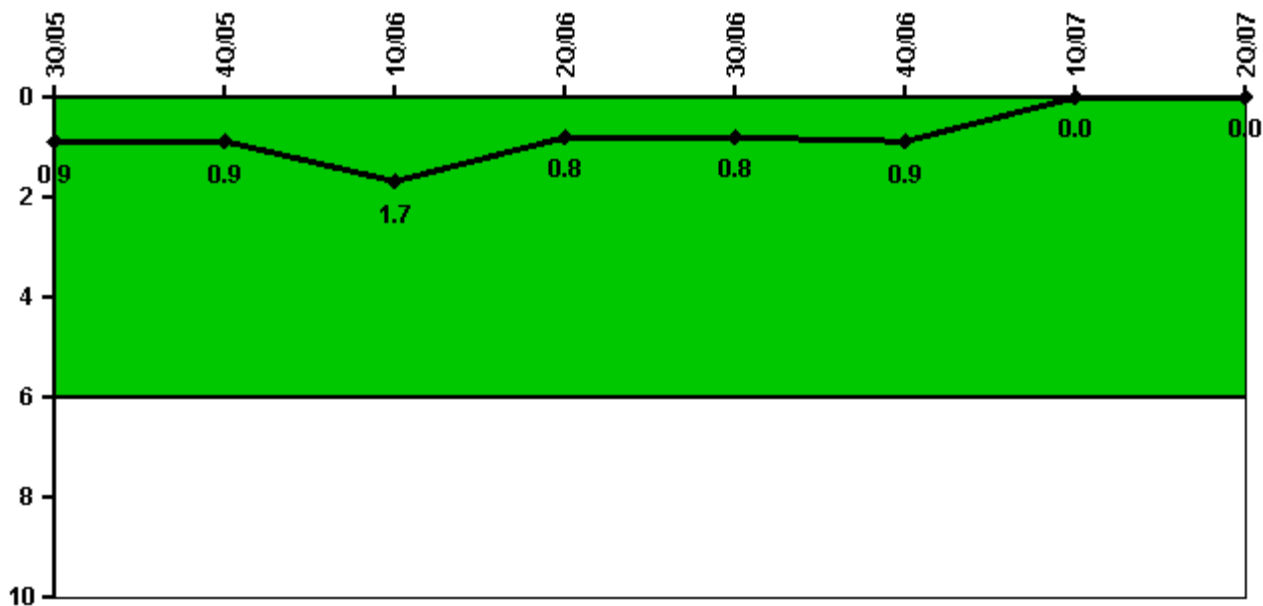
Notes

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

Licensee Comments:

2Q/07: Recent discussions with the NRC determined the October 2006 Unit 2 scram should have been designated with loss of normal heat removal. October data was corrected with no change in color.

Unplanned Power Changes per 7000 Critical Hrs



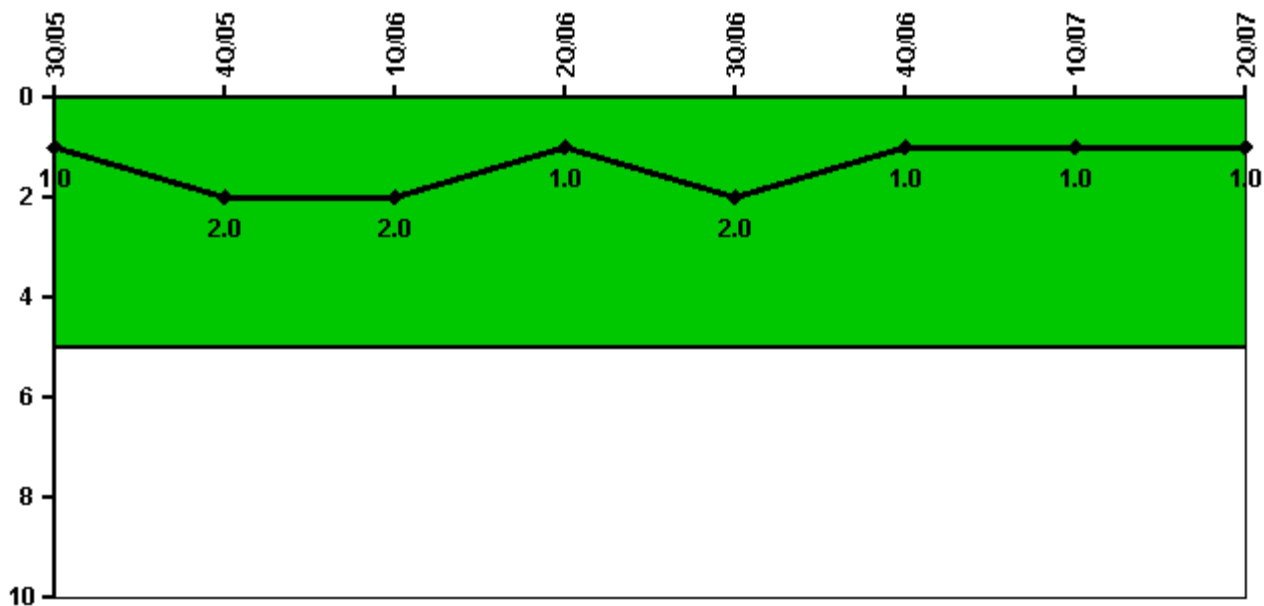
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	2208.0	2209.0	2160.0	2183.0	2208.0	1170.7	2159.0	2184.0
Indicator value	0.9	0.9	1.7	0.8	0.8	0.9	0	0

Licensee Comments: none

Safety System Functional Failures (PWR)



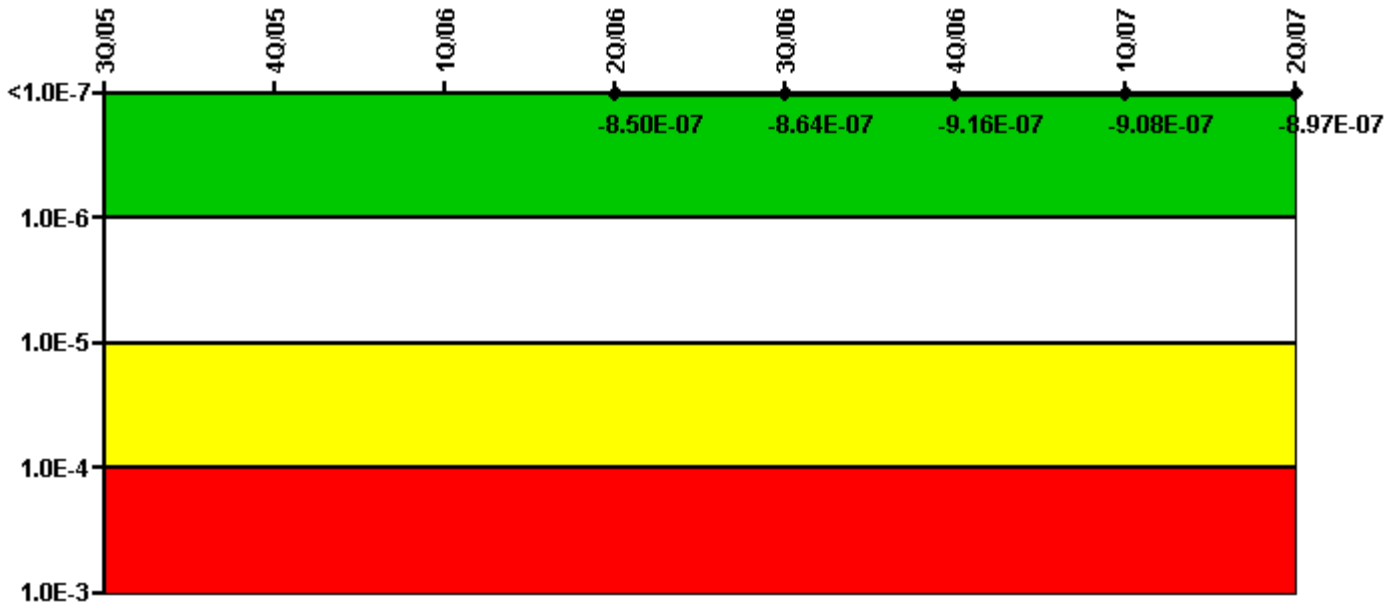
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



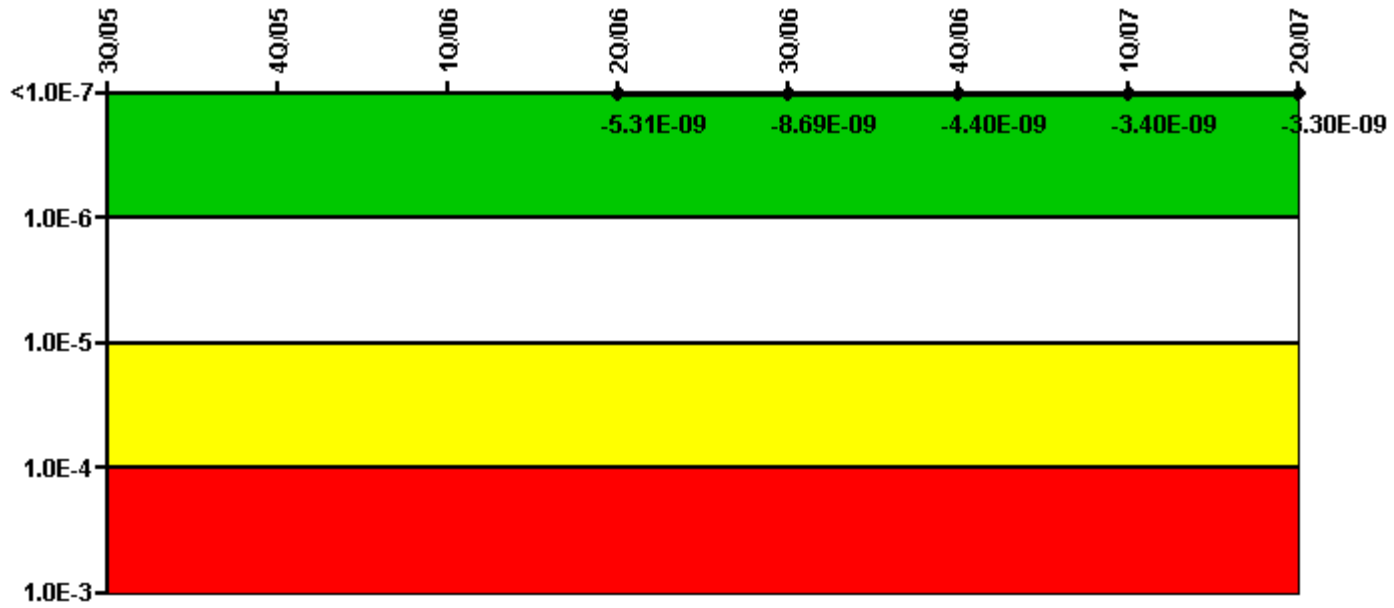
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (Δ CDF)				1.10E-07	7.60E-08	7.40E-08	7.20E-08	7.30E-08
URI (Δ CDF)				-9.60E-07	-9.40E-07	-9.90E-07	-9.80E-07	-9.70E-07
PLE				NO	NO	NO	NO	NO
Indicator value				-8.50E-07	-8.64E-07	-9.16E-07	-9.08E-07	-8.97E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



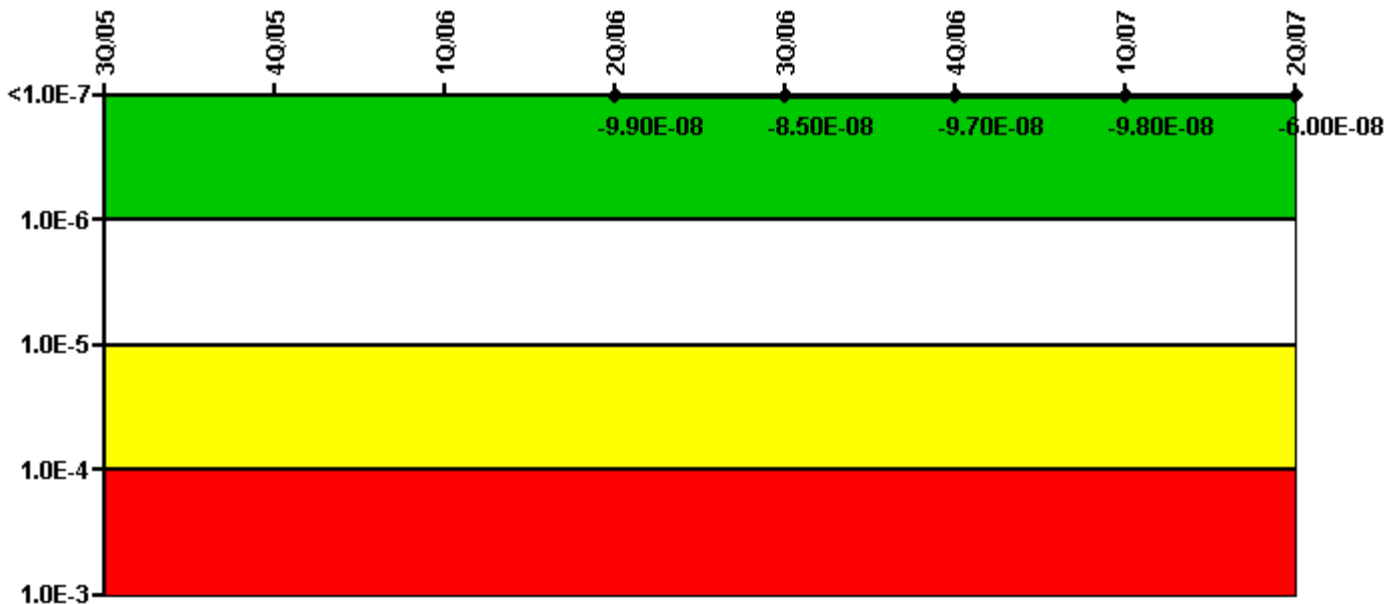
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (Δ CDF)				2.90E-10	8.10E-10	6.60E-09	7.60E-09	7.70E-09
URI (Δ CDF)				-5.60E-09	-9.50E-09	-1.10E-08	-1.10E-08	-1.10E-08
PLE				NO	NO	NO	NO	NO
Indicator value				-5.31E-09	-8.69E-09	-4.40E-09	-3.40E-09	-3.30E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



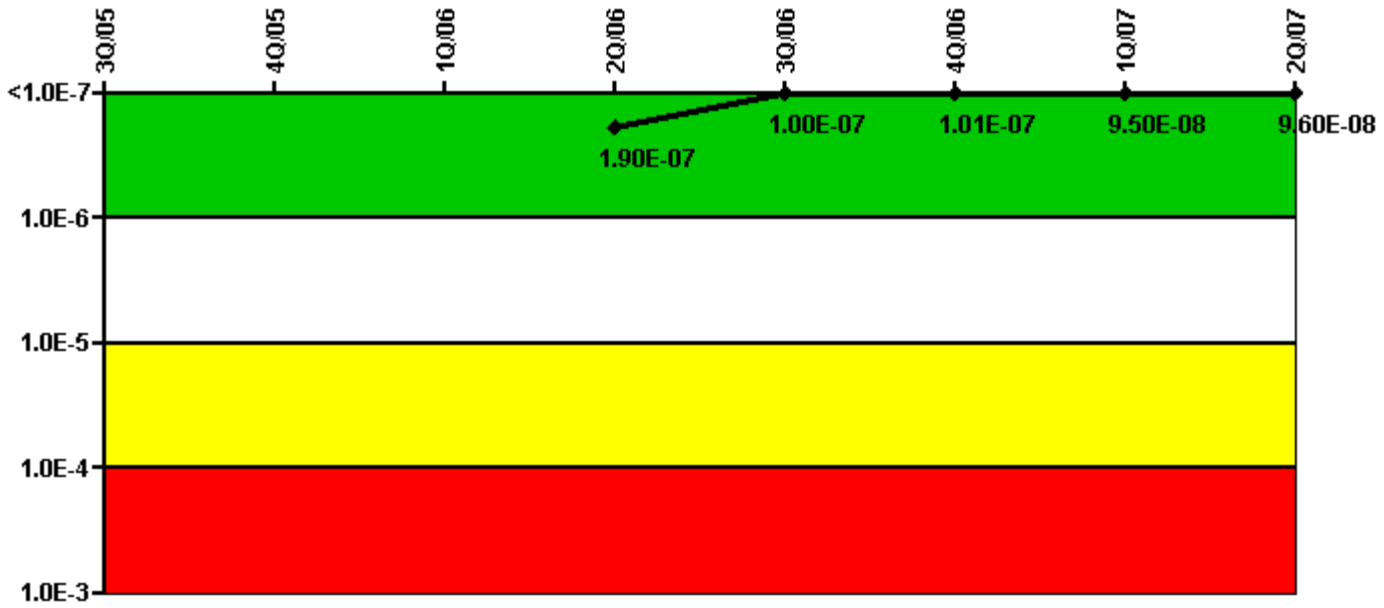
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (Δ CDF)				2.10E-08	2.50E-08	2.30E-08	2.20E-08	5.00E-08
URI (Δ CDF)				-1.20E-07	-1.10E-07	-1.20E-07	-1.20E-07	-1.10E-07
PLE				NO	NO	NO	NO	NO
Indicator value				-9.90E-08	-8.50E-08	-9.70E-08	-9.80E-08	-6.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



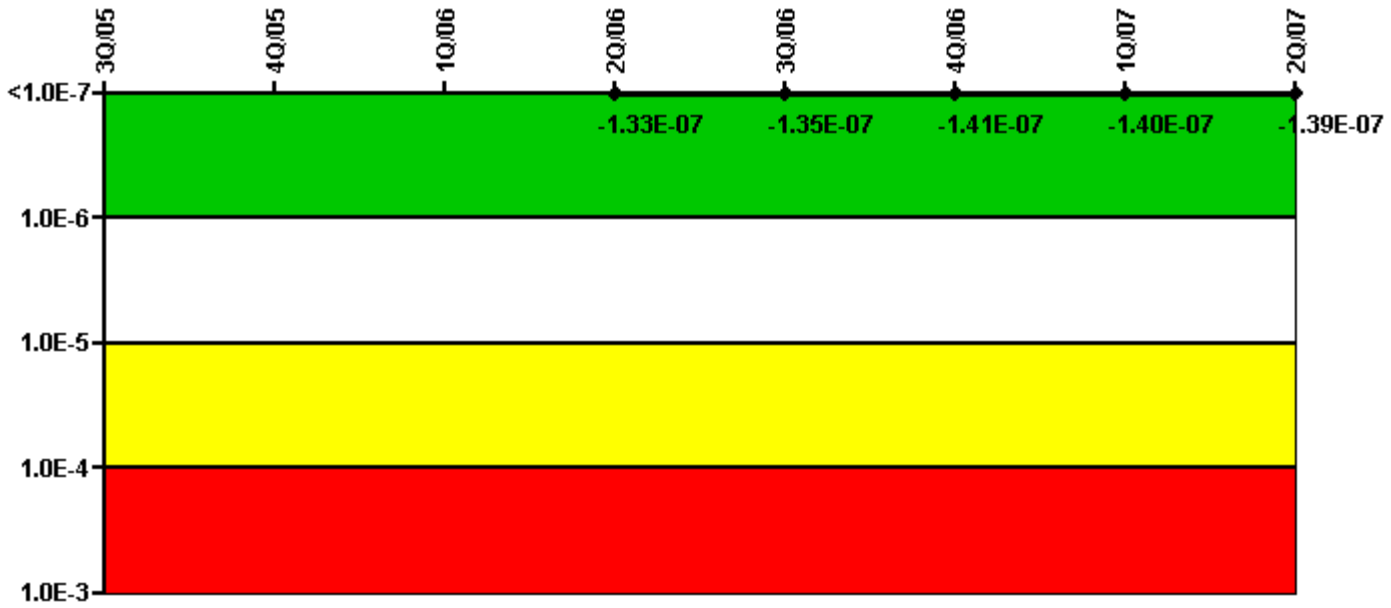
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (Δ CDF)				2.00E-08	2.00E-08	1.70E-08	1.10E-08	1.10E-08
URI (Δ CDF)				1.70E-07	8.00E-08	8.40E-08	8.40E-08	8.50E-08
PLE				NO	NO	NO	NO	NO
Indicator value				1.90E-07	1.00E-07	1.01E-07	9.50E-08	9.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



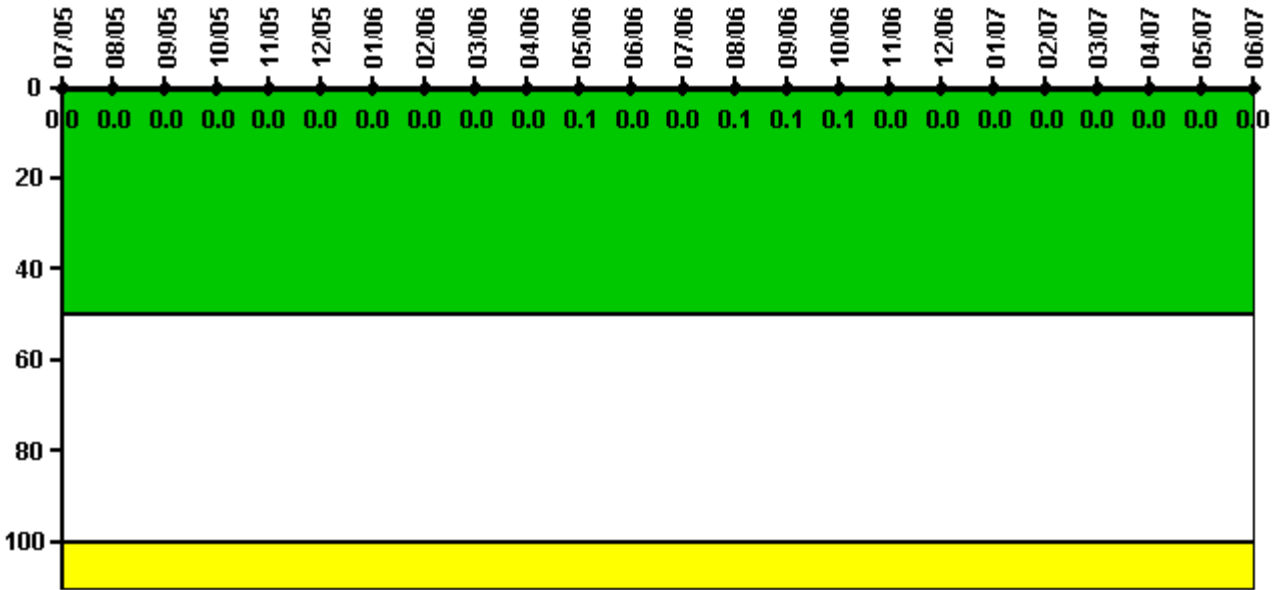
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (Δ CDF)				-2.50E-09	-5.10E-09	-1.10E-09	1.30E-10	8.10E-10
URI (Δ CDF)				-1.30E-07	-1.30E-07	-1.40E-07	-1.40E-07	-1.40E-07
PLE				NO	NO	NO	NO	NO
Indicator value				-1.33E-07	-1.35E-07	-1.41E-07	-1.40E-07	-1.39E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

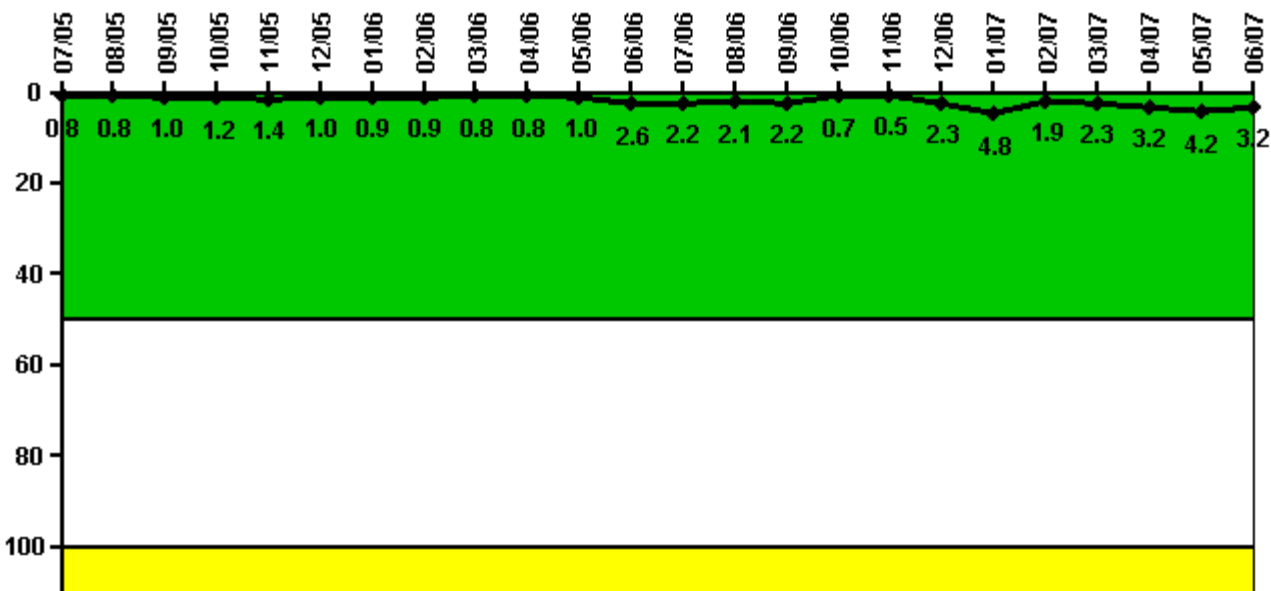
Notes

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	0.000334	0.000326	0.000323	0.000395	0.000358	0.000358	0.000422	0.000347	0.000470	0.000473	0.000508	0.000487
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0.1	0

Reactor Coolant System Activity	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum activity	0.000498	0.000506	0.000815	0.000504	0.000298	0.000386	0.000341	0.000394	0.000367	0.000365	0.000428	0.000411
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0.1	0.1	0.1	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

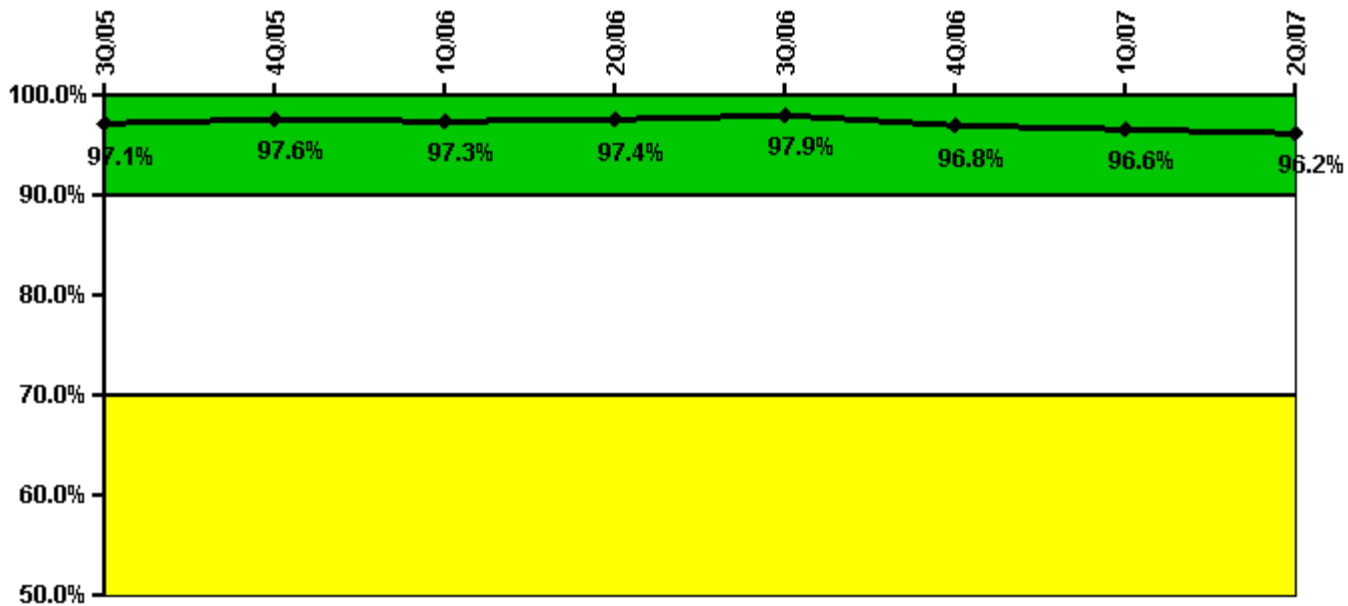
Notes

Reactor Coolant System Leakage	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06
Maximum leakage	0.080	0.080	0.100	0.120	0.140	0.100	0.090	0.090	0.080	0.080	0.100	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	0.8	0.8	1.0	1.2	1.4	1.0	0.9	0.9	0.8	0.8	1.0	2.6

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	0.220	0.210	0.220	0.070	0.050	0.230	0.480	0.190	0.230	0.320	0.420	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	2.2	2.1	2.2	0.7	0.5	2.3	4.8	1.9	2.3	3.2	4.2	3.2

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

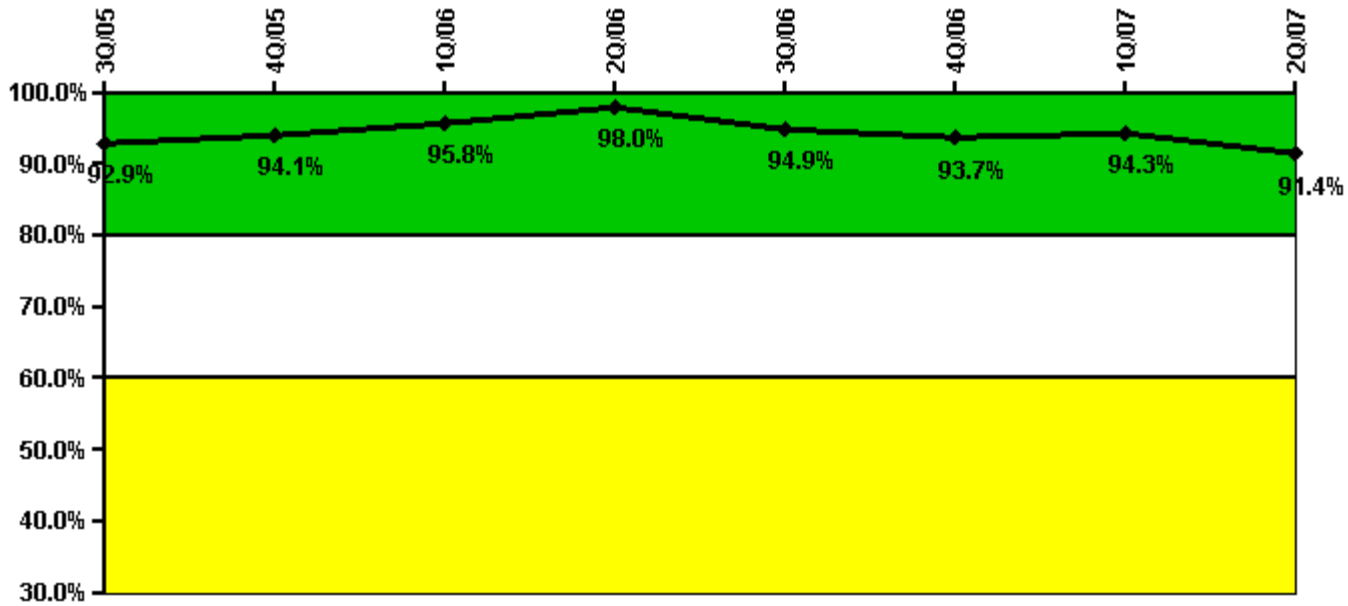
Notes

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



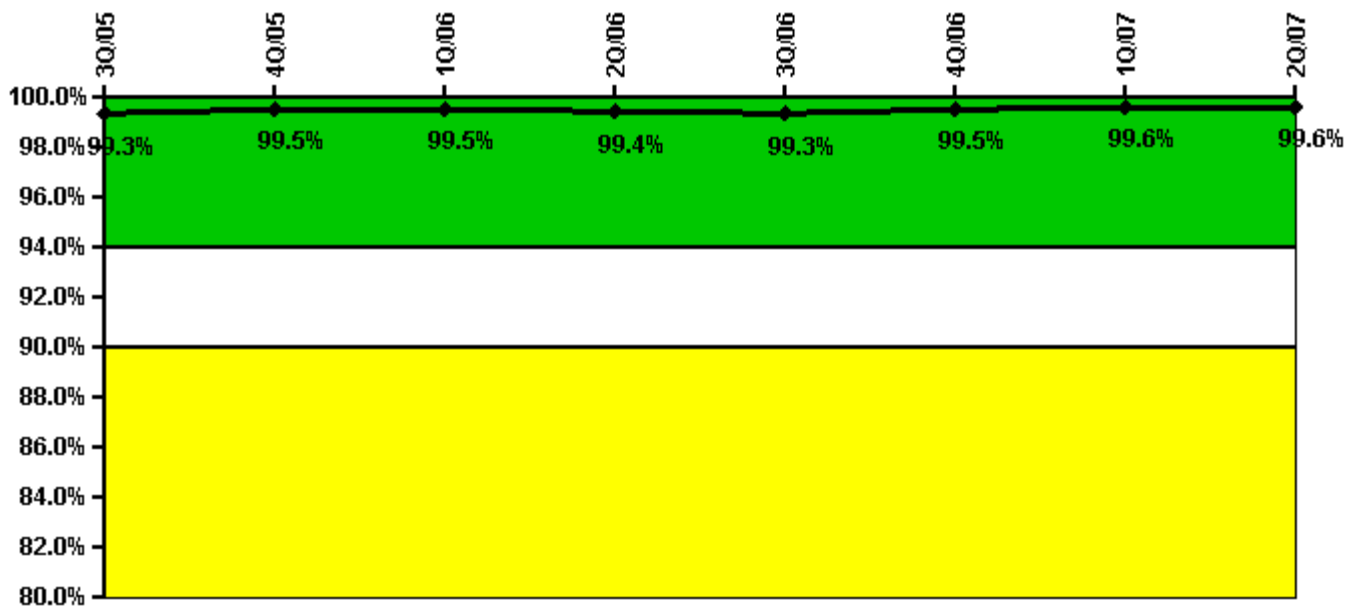
Thresholds: White < 80.0% Yellow < 60.0%

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



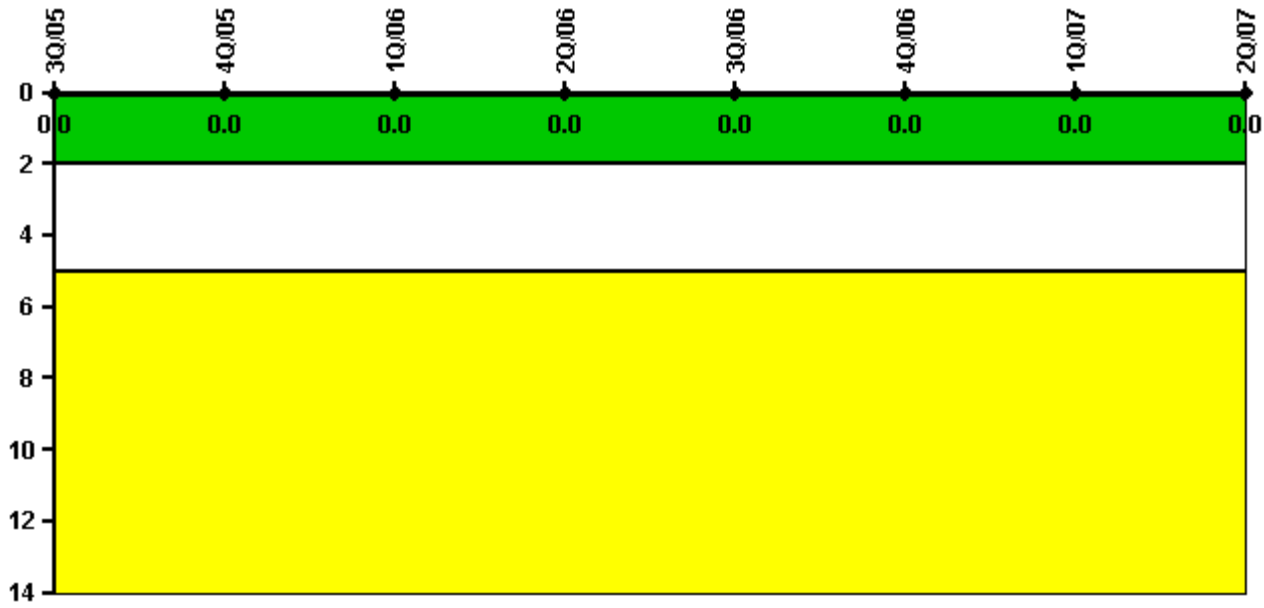
Thresholds: White < 94.0% Yellow < 90.0%

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



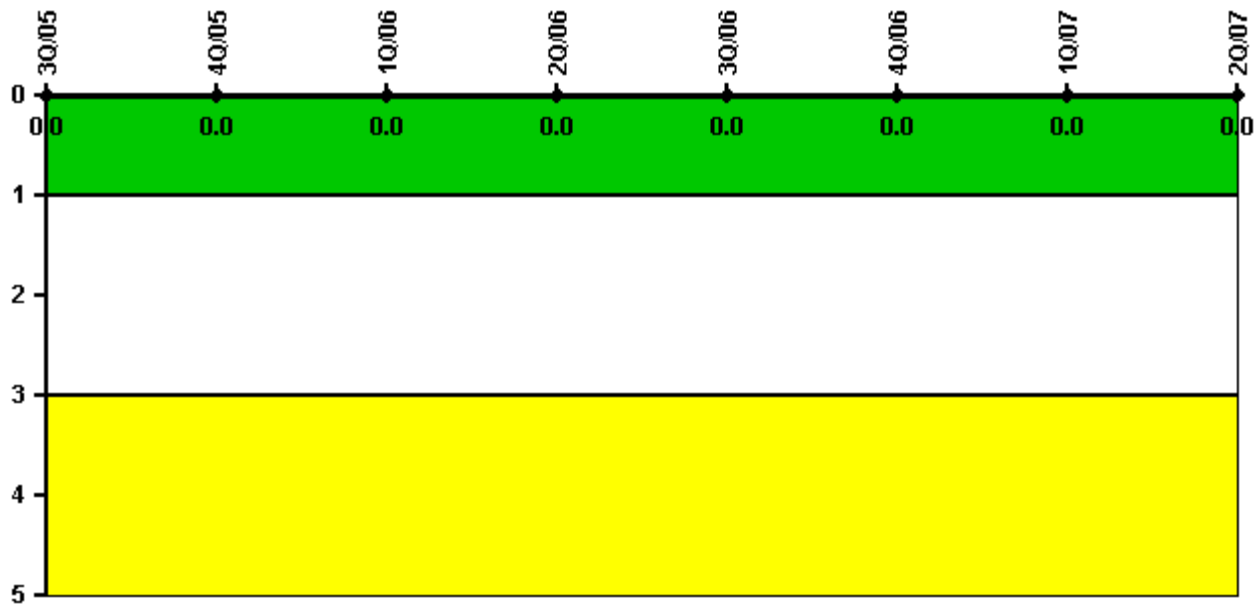
Thresholds: White > 2.0 Yellow > 5.0

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

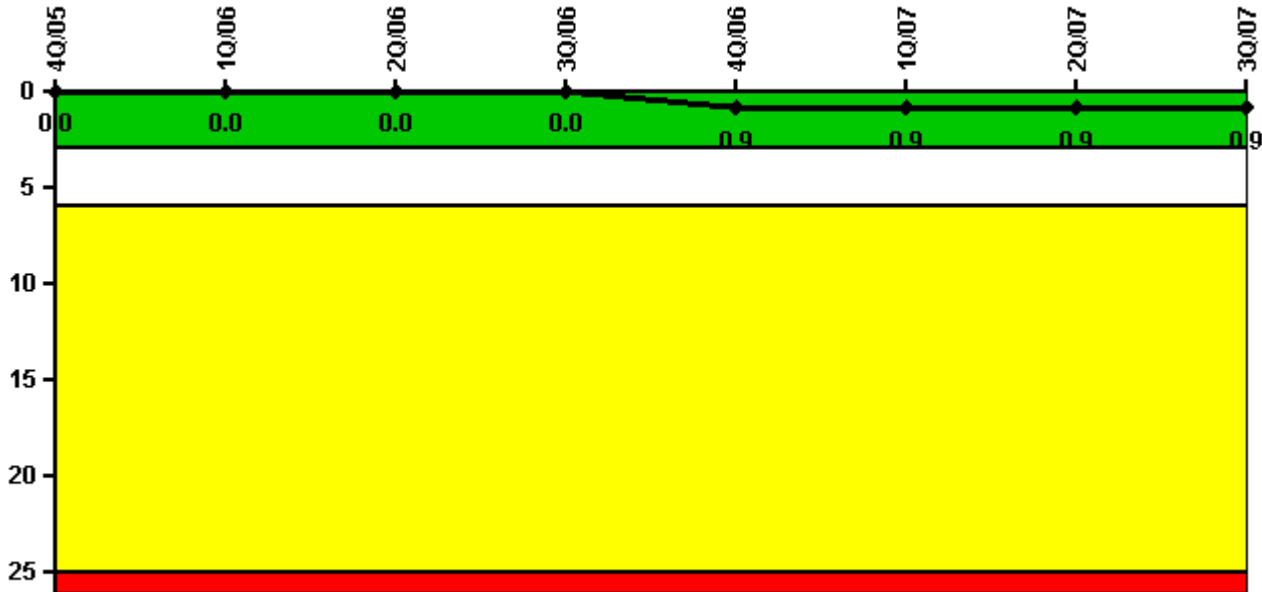
[Physical Protection](#) information not publicly available.

Surry 2

3Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



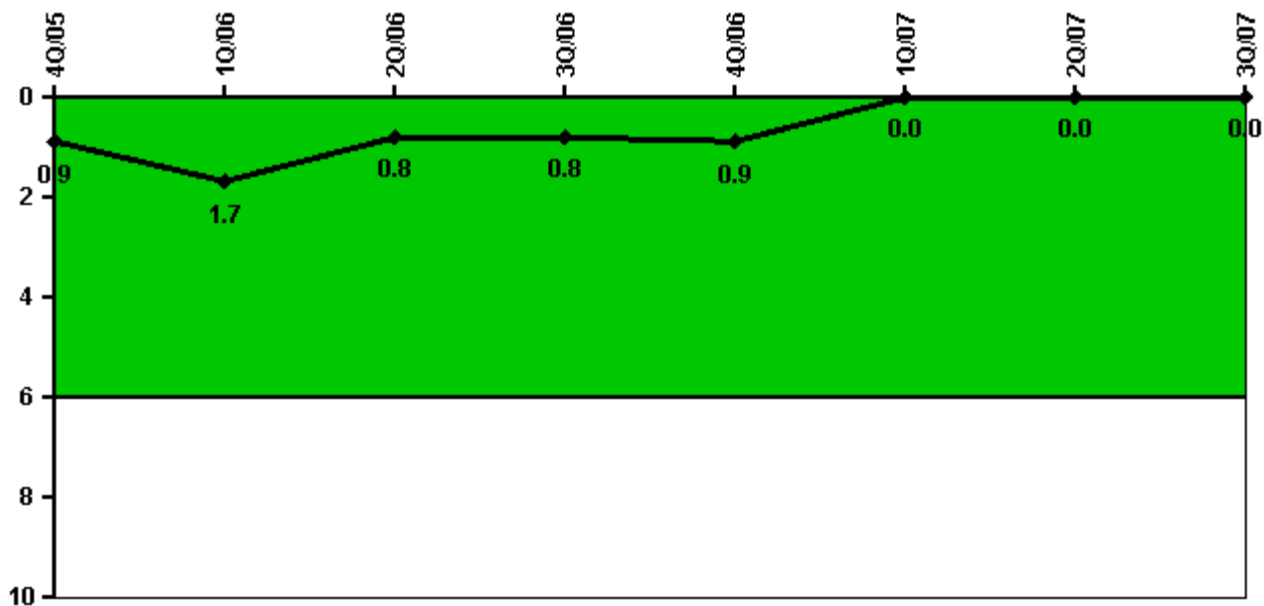
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2209.0	2160.0	2183.0	2208.0	1170.7	2159.0	2184.0	2208.0
Indicator value	0	0	0	0	0.9	0.9	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



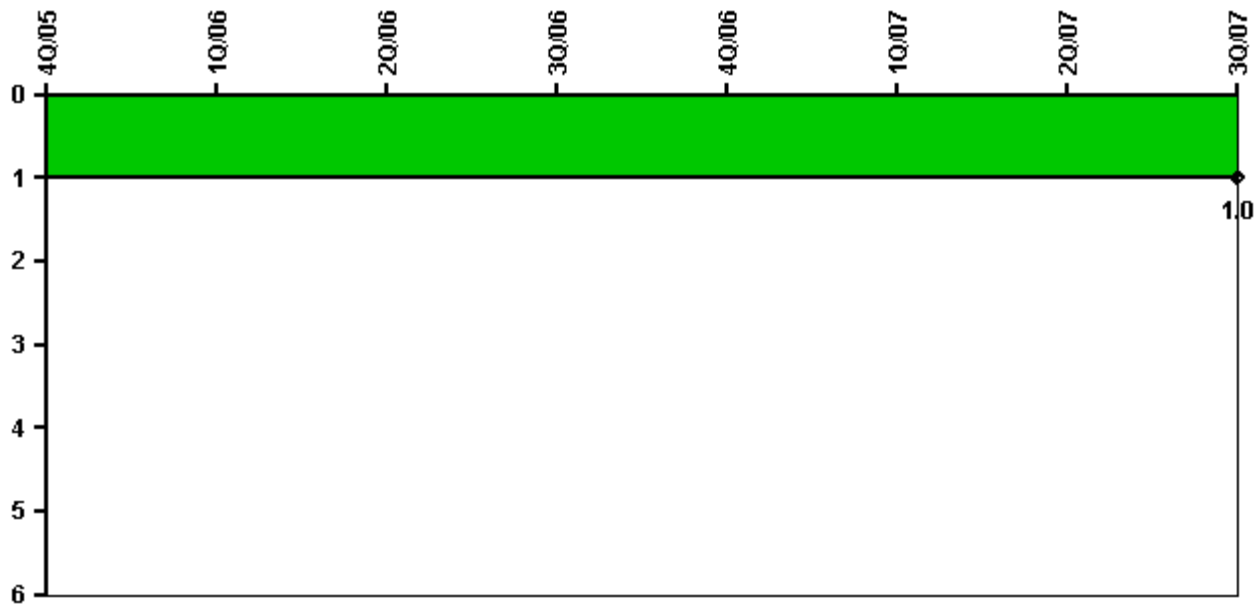
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2209.0	2160.0	2183.0	2208.0	1170.7	2159.0	2184.0	2208.0
Indicator value	0.9	1.7	0.8	0.8	0.9	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



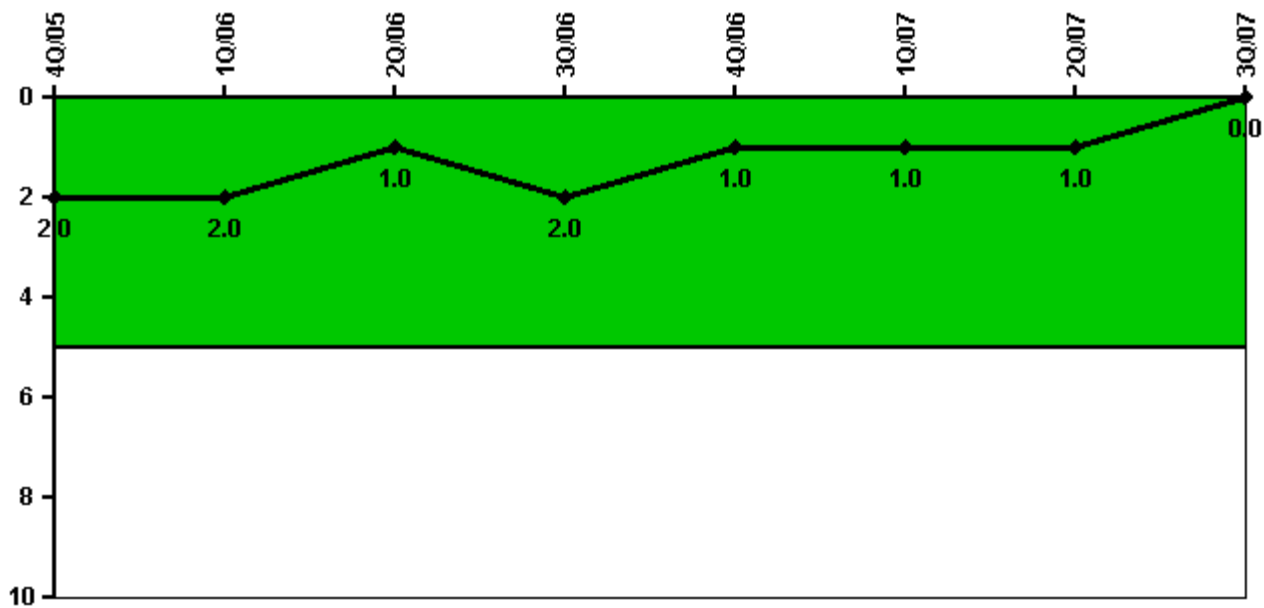
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



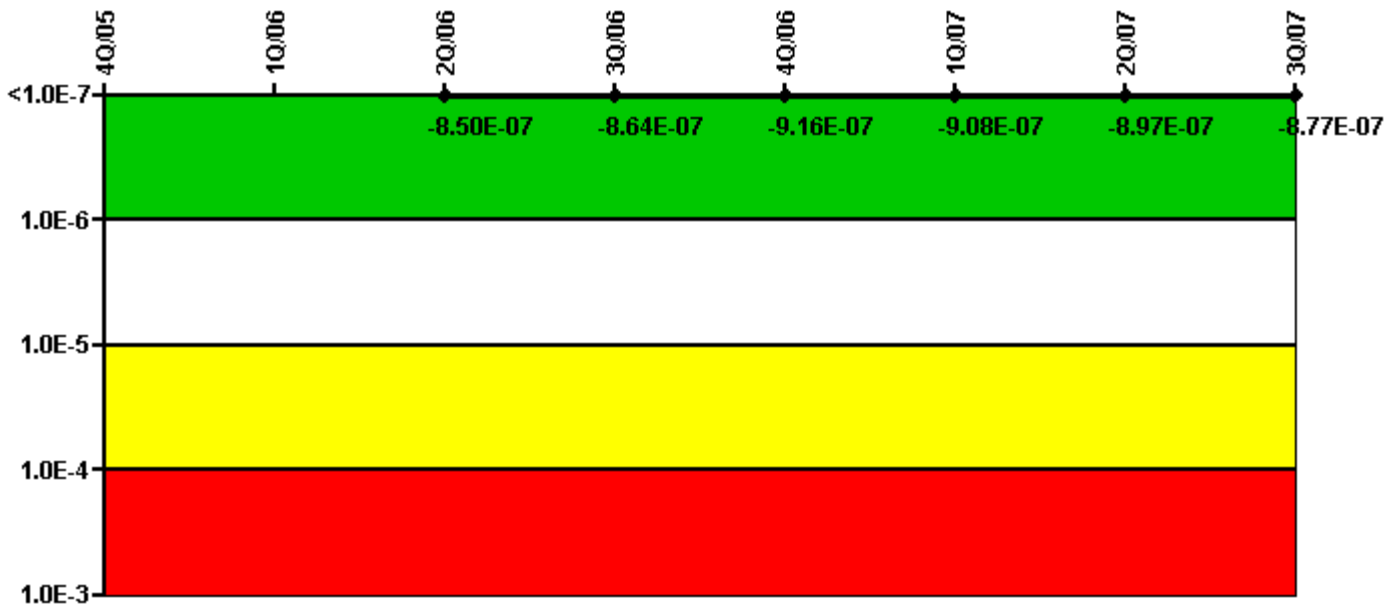
Thresholds: White > 5.0

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



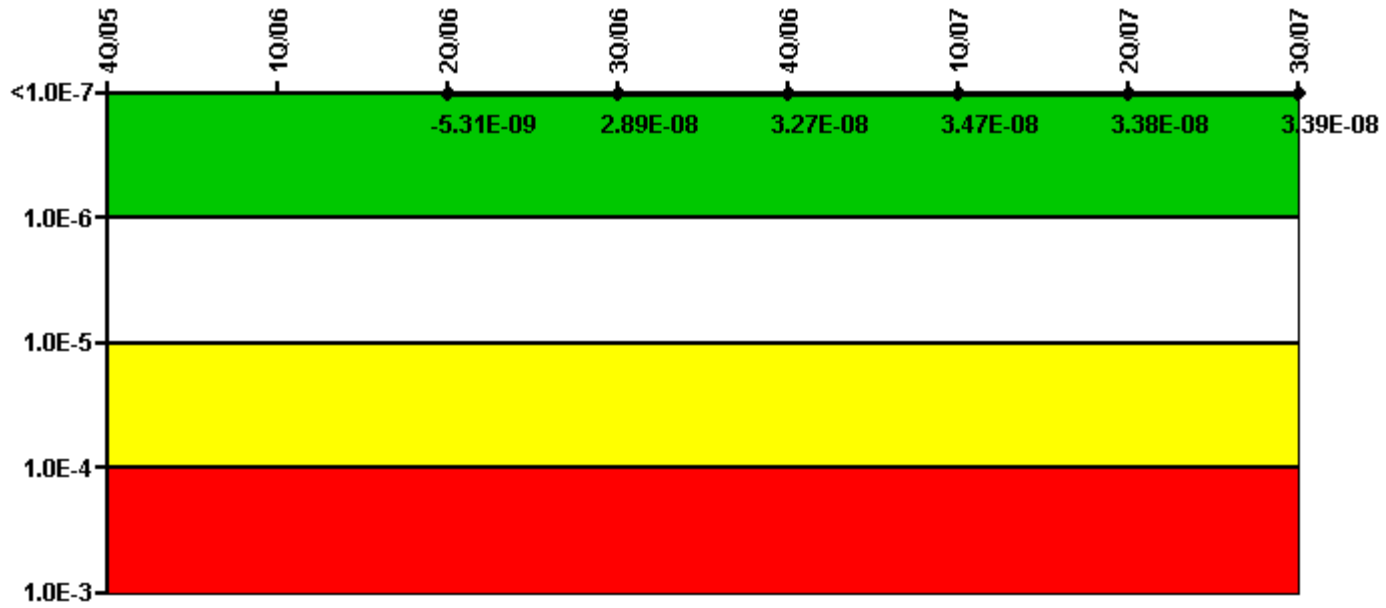
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (Δ CDF)			1.10E-07	7.60E-08	7.40E-08	7.20E-08	7.30E-08	7.30E-08
URI (Δ CDF)			-9.60E-07	-9.40E-07	-9.90E-07	-9.80E-07	-9.70E-07	-9.50E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-8.50E-07	-8.64E-07	-9.16E-07	-9.08E-07	-8.97E-07	-8.77E-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

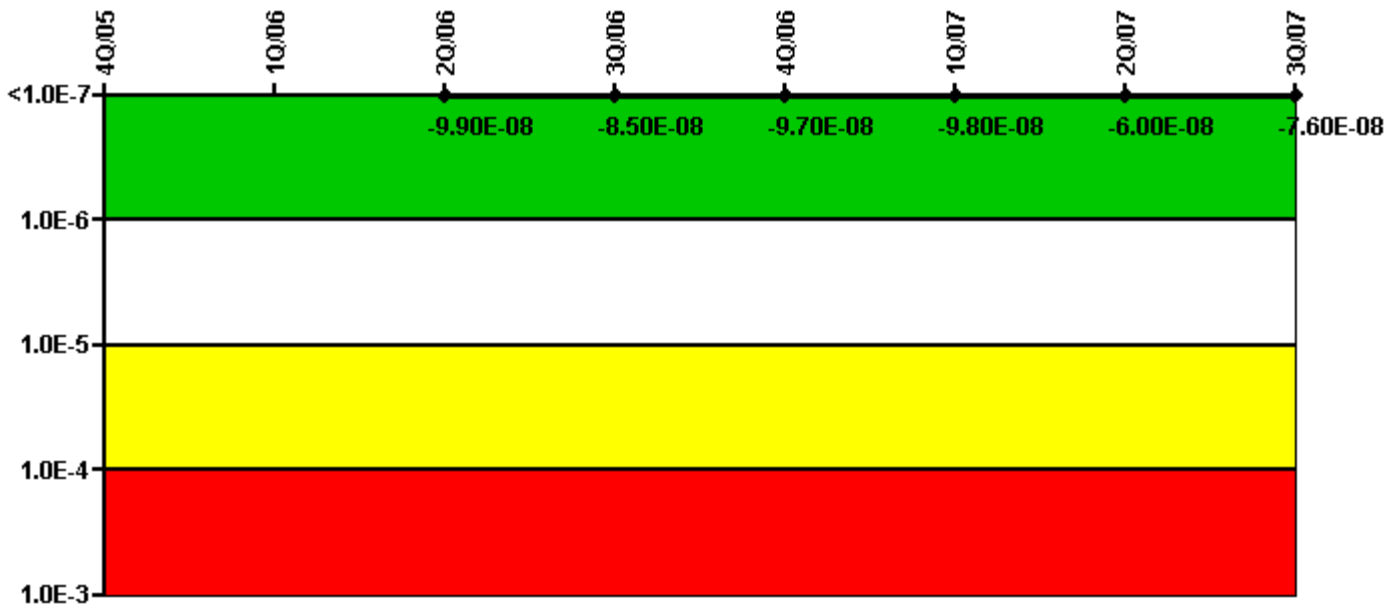
Notes

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 (Δ CDF)			2.90E-10	8.80E-10	6.70E-09	7.70E-09	7.80E-09	7.90E-09
URI (Δ CDF)			-5.60E-09	2.80E-08	2.60E-08	2.70E-08	2.60E-08	2.60E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-5.31E-09	2.89E-08	3.27E-08	3.47E-08	3.38E-08	3.39E-08

Licensee Comments:

3Q/07: After evaluation, it was determined post maintenance activities in July 2006 resulted in two failures. Historical data was corrected with no change in color.

Mitigating Systems Performance Index, Heat Removal System



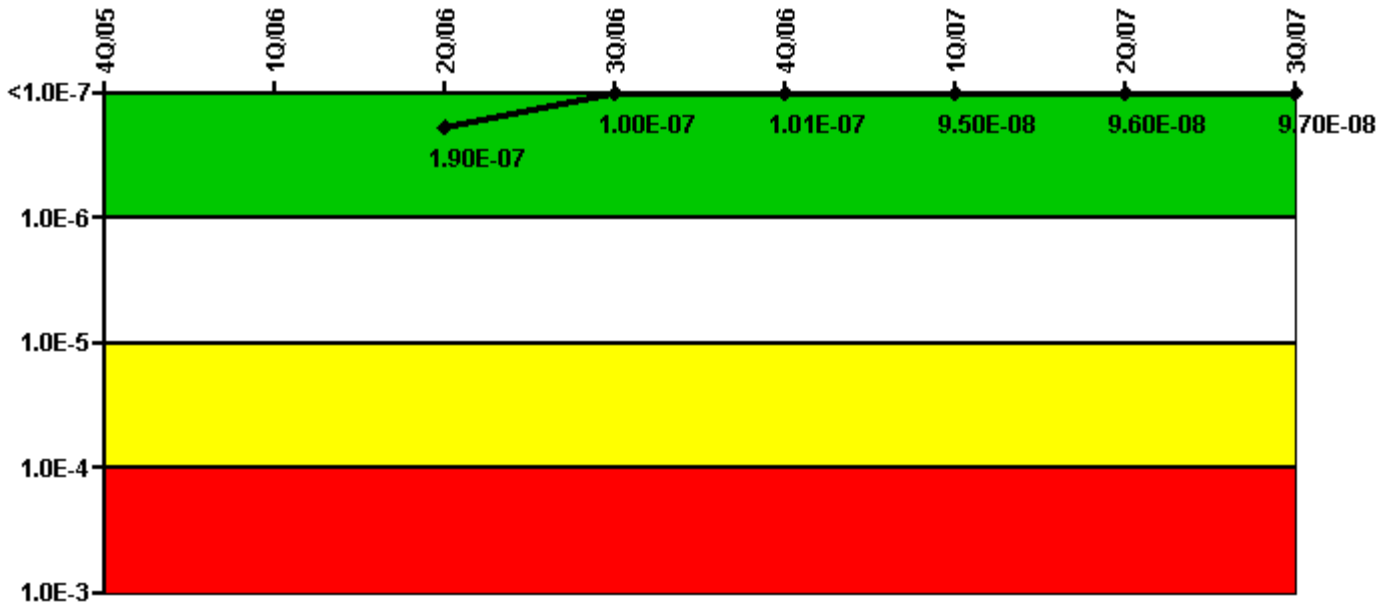
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (Δ CDF)			2.10E-08	2.50E-08	2.30E-08	2.20E-08	5.00E-08	3.40E-08
URI (Δ CDF)			-1.20E-07	-1.10E-07	-1.20E-07	-1.20E-07	-1.10E-07	-1.10E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-9.90E-08	-8.50E-08	-9.70E-08	-9.80E-08	-6.00E-08	-7.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



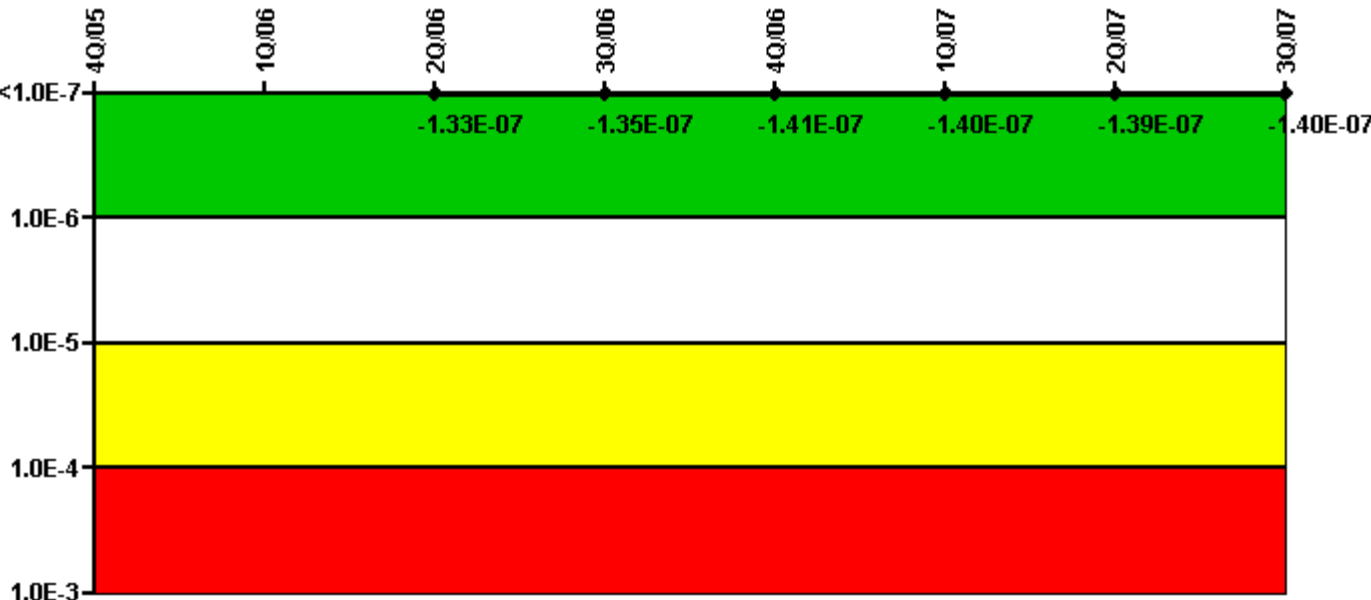
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (Δ CDF)			2.00E-08	2.00E-08	1.70E-08	1.10E-08	1.10E-08	1.10E-08
URI (Δ CDF)			1.70E-07	8.00E-08	8.40E-08	8.40E-08	8.50E-08	8.60E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			1.90E-07	1.00E-07	1.01E-07	9.50E-08	9.60E-08	9.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



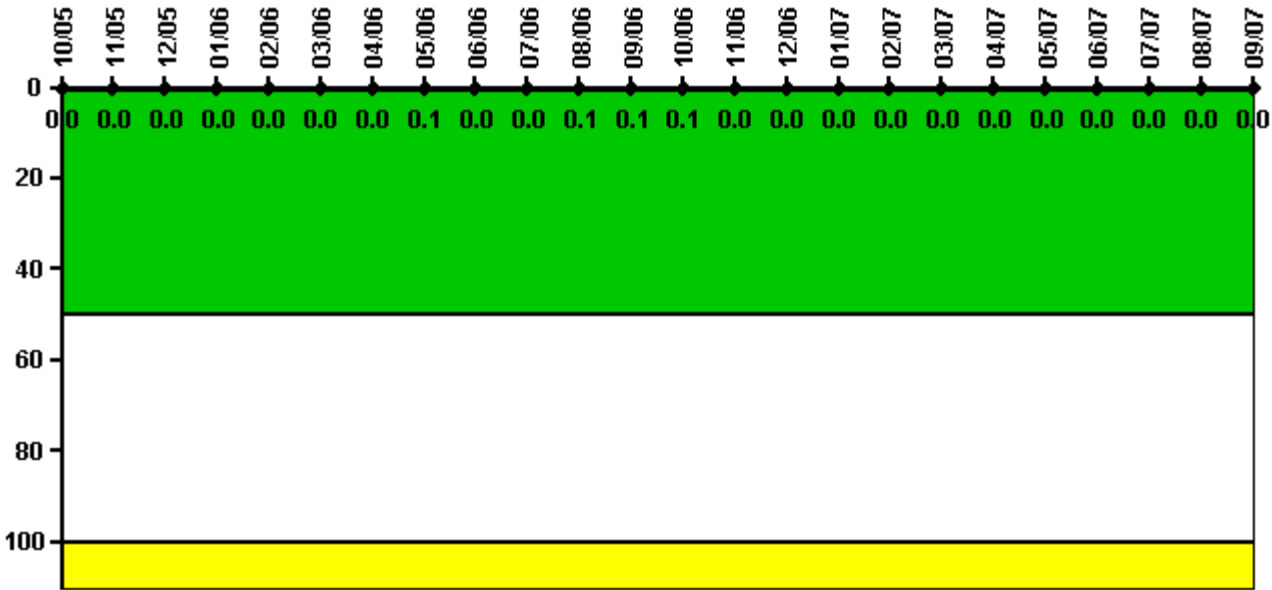
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (Δ CDF)			-2.50E-09	-5.10E-09	-1.10E-09	1.30E-10	8.10E-10	1.90E-10
URI (Δ CDF)			-1.30E-07	-1.30E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.40E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-1.33E-07	-1.35E-07	-1.41E-07	-1.40E-07	-1.39E-07	-1.40E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

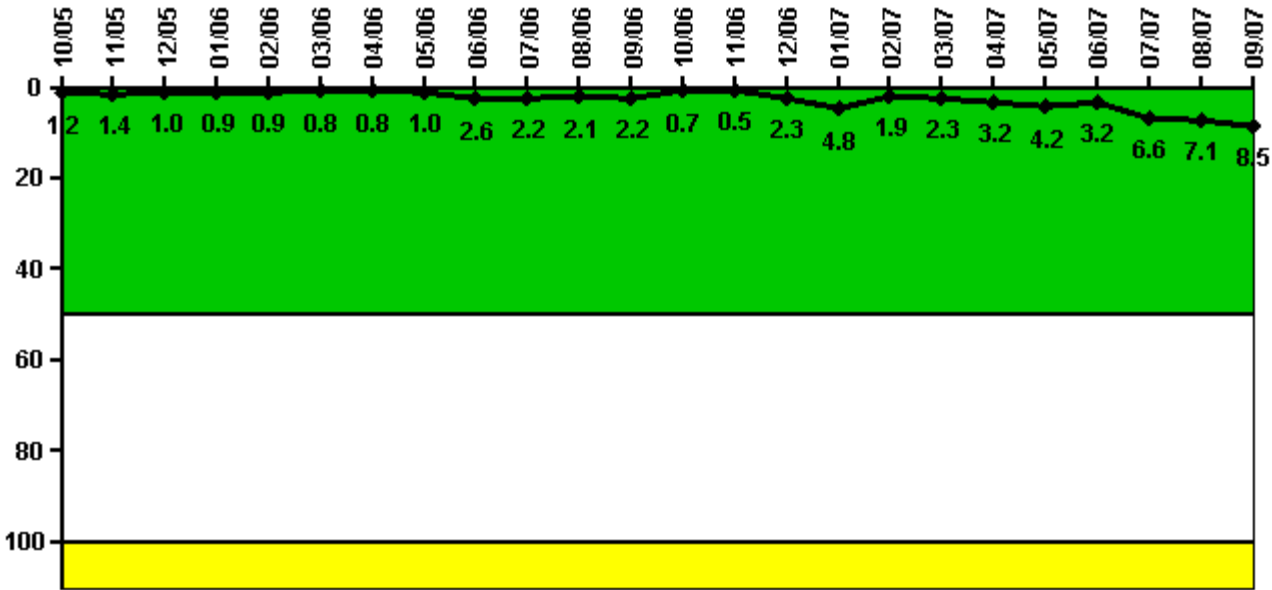
Notes

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	0.000395	0.000358	0.000358	0.000422	0.000347	0.000470	0.000473	0.000508	0.000487	0.000498	0.000506	0.000815
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0.1	0	0	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	0.000504	0.000298	0.000386	0.000341	0.000394	0.000367	0.000365	0.000428	0.000411	0.000437	0.000407	0.000355
Technical specification limit	1.0	1.0	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	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



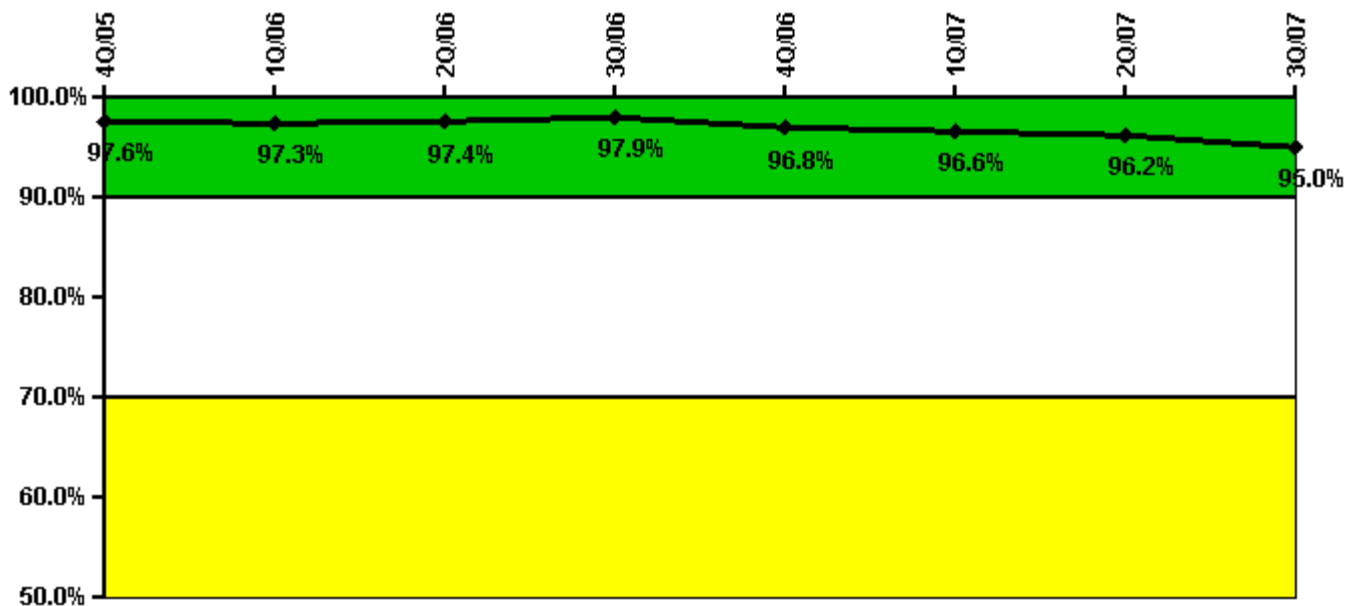
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06
Maximum leakage	0.120	0.140	0.100	0.090	0.090	0.080	0.080	0.100	0.260	0.220	0.210	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	1.2	1.4	1.0	0.9	0.9	0.8	0.8	1.0	2.6	2.2	2.1	2.2
Reactor Coolant System Leakage	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum leakage	0.070	0.050	0.230	0.480	0.190	0.230	0.320	0.420	0.320	0.660	0.710	0.850
Technical specification limit	10.0	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	0.5	2.3	4.8	1.9	2.3	3.2	4.2	3.2	6.6	7.1	8.5

Licensee Comments: none

Drill/Exercise Performance



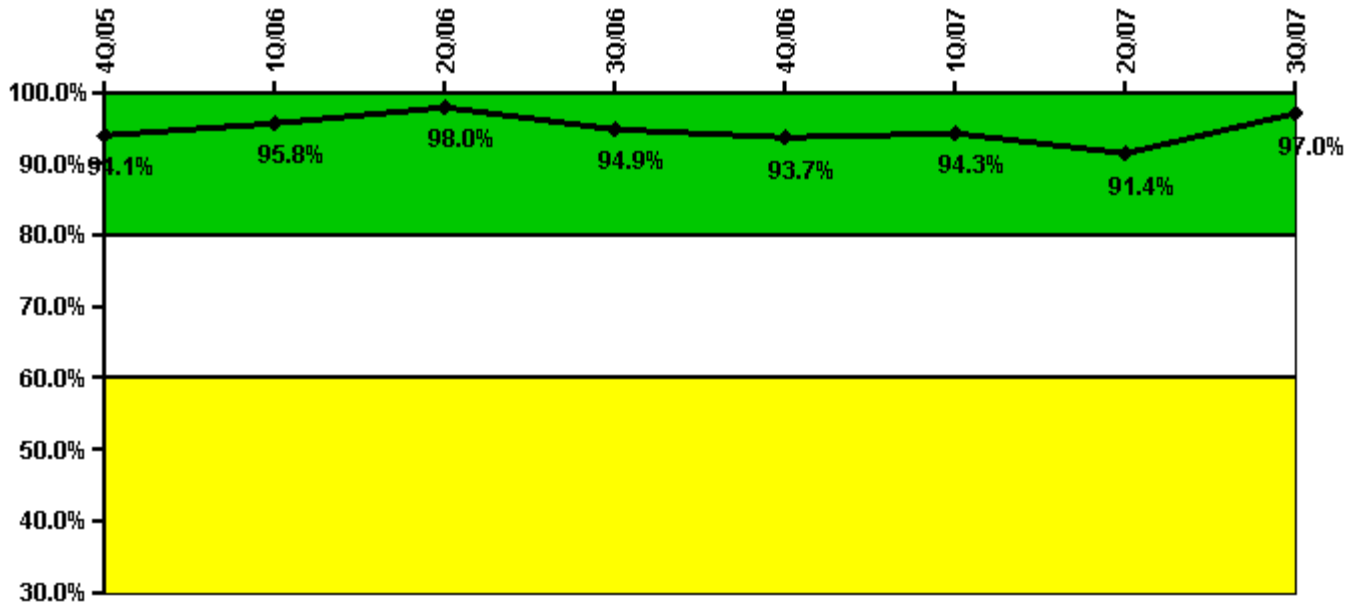
Thresholds: White < 90.0% Yellow < 70.0%

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



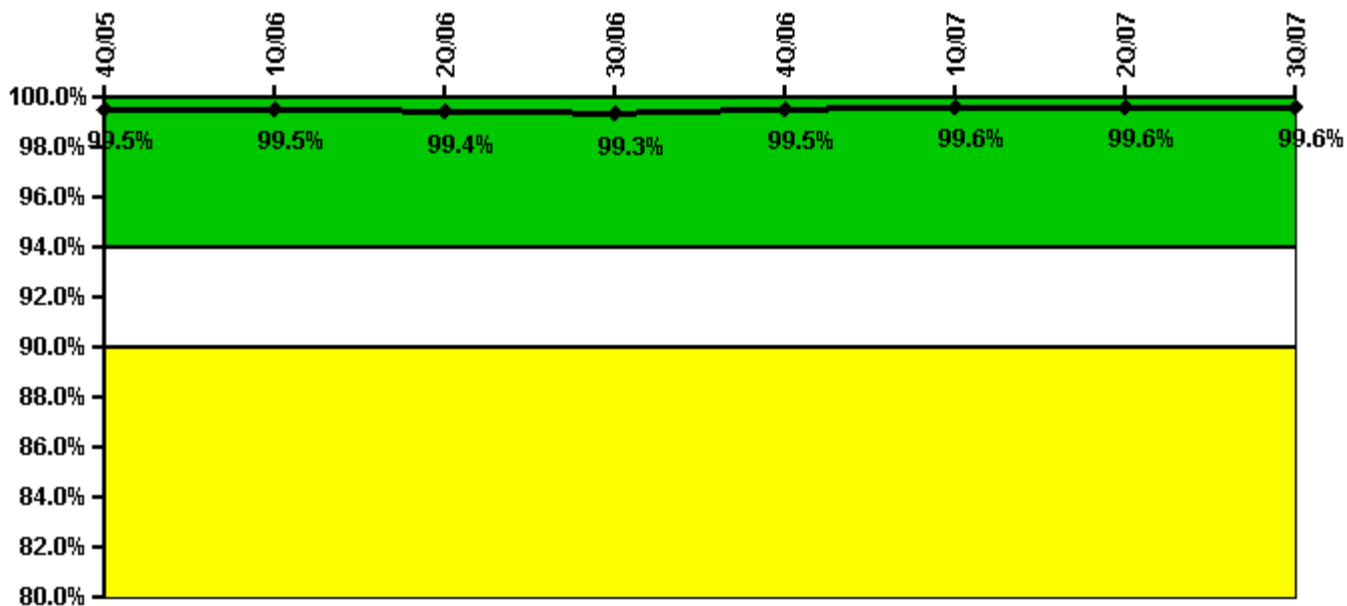
Thresholds: White < 80.0% Yellow < 60.0%

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



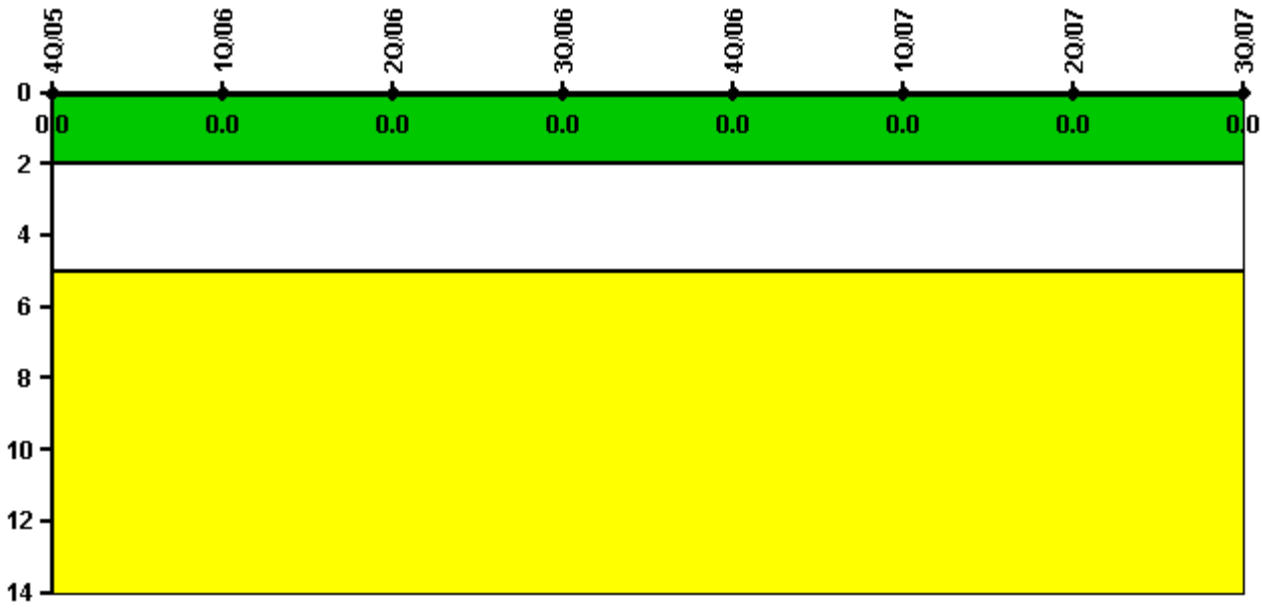
Thresholds: White < 94.0% Yellow < 90.0%

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



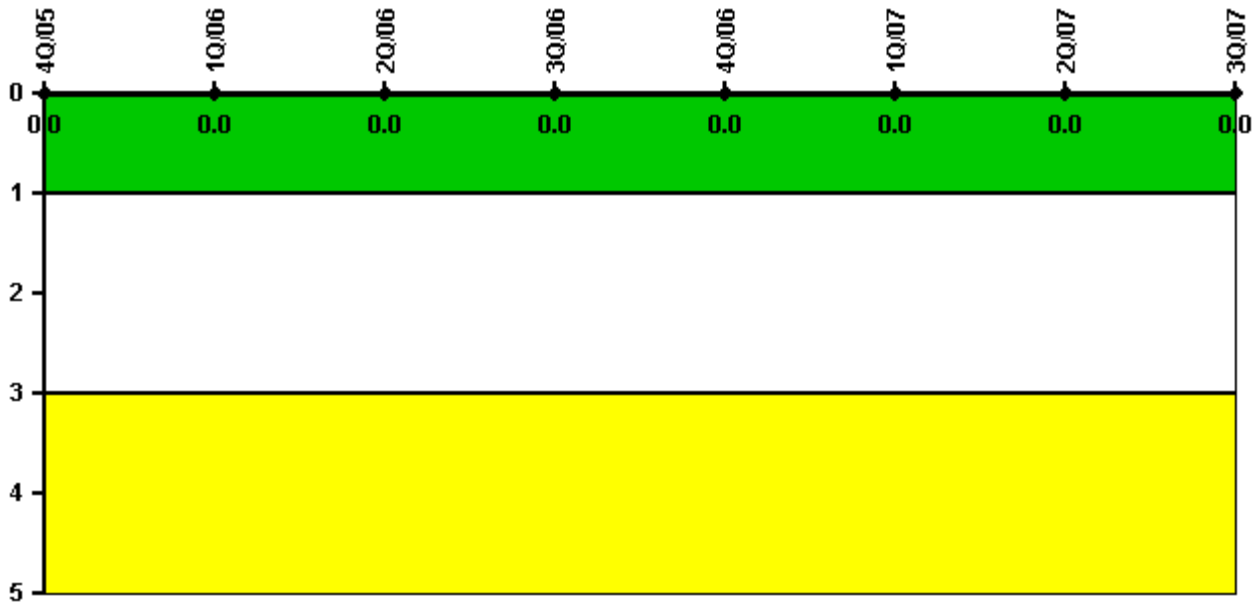
Thresholds: White > 2.0 Yellow > 5.0

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

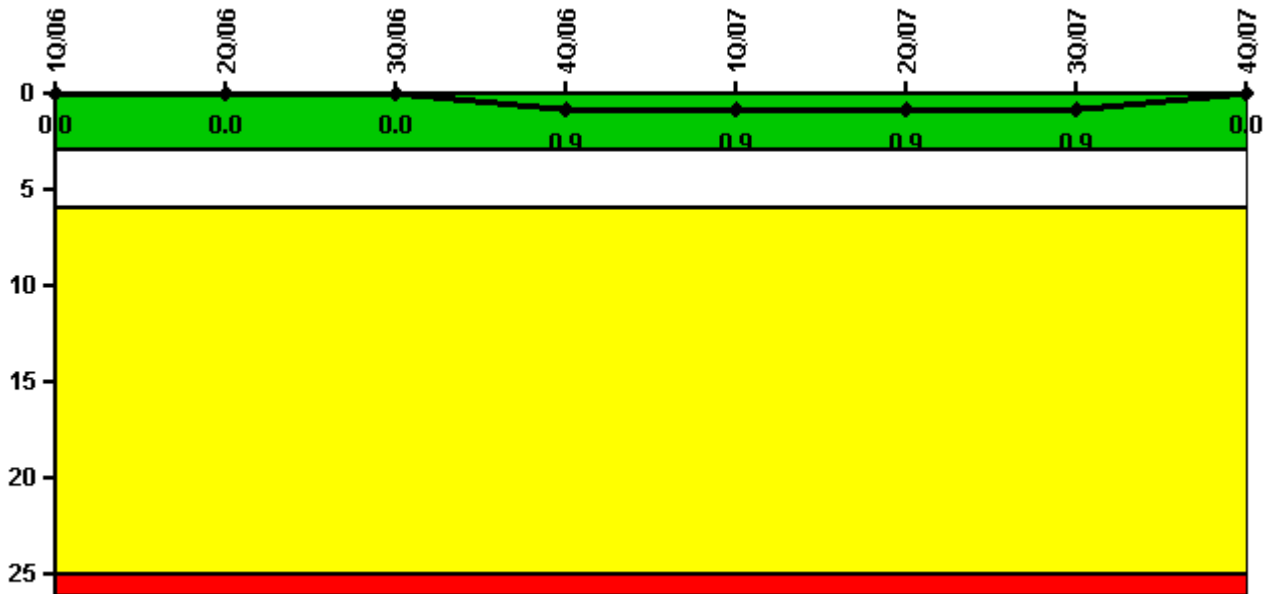
[Physical Protection](#) information not publicly available.

Surry 2

4Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



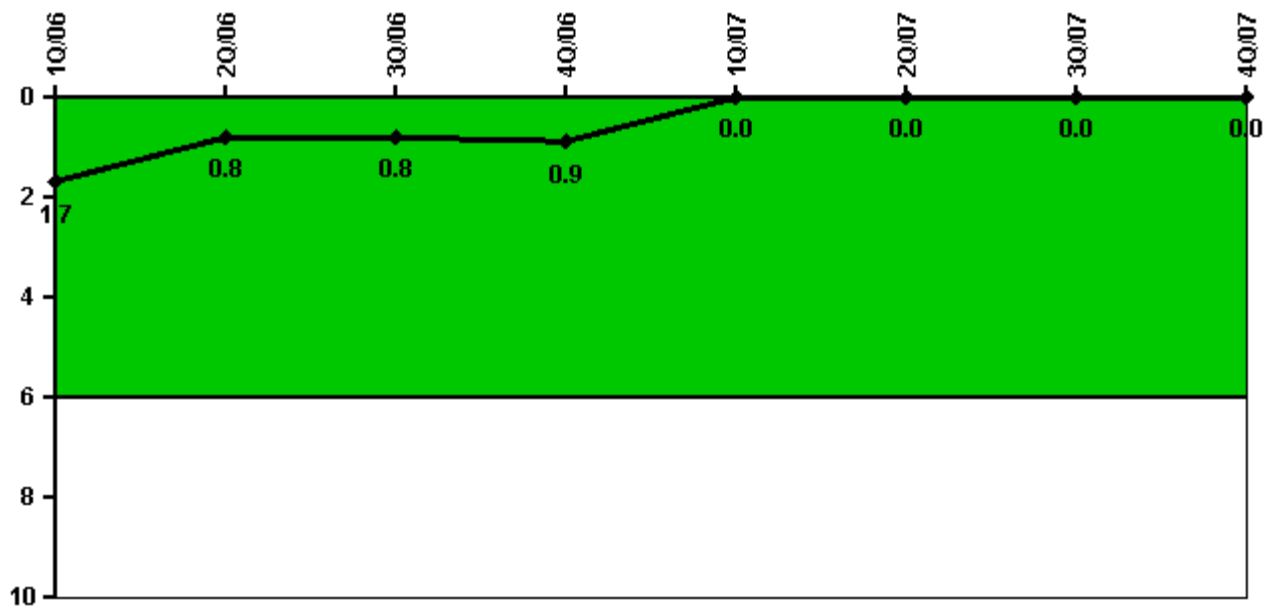
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2160.0	2183.0	2208.0	1170.7	2159.0	2184.0	2208.0	2209.0
Indicator value	0	0	0	0.9	0.9	0.9	0.9	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



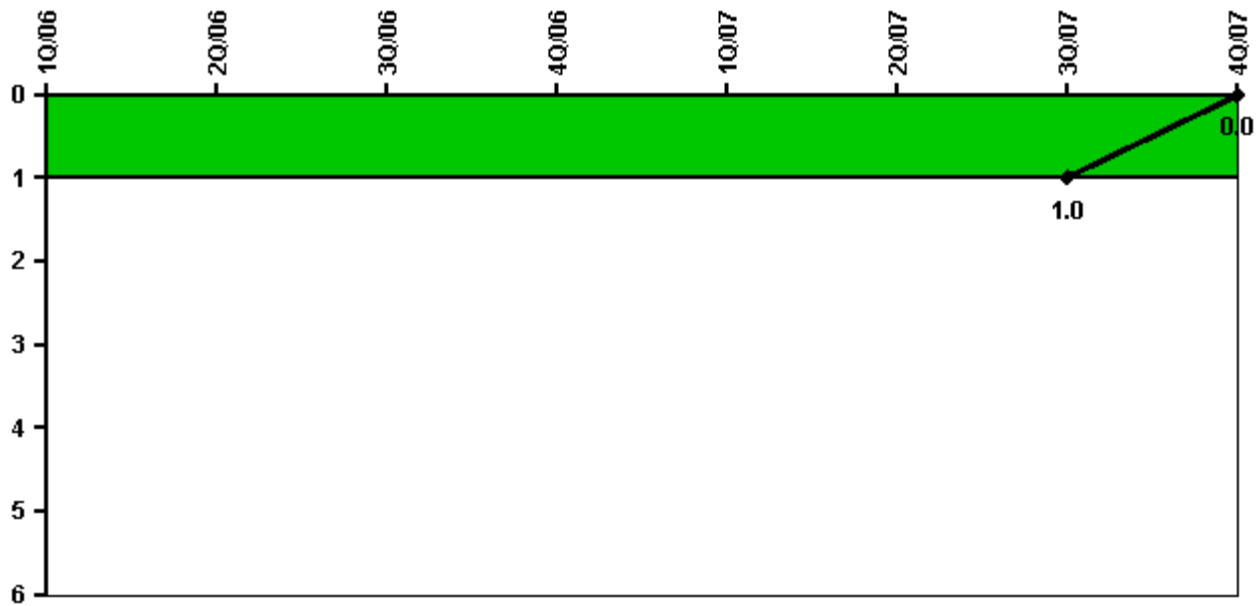
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2160.0	2183.0	2208.0	1170.7	2159.0	2184.0	2208.0	2209.0
Indicator value	1.7	0.8	0.8	0.9	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



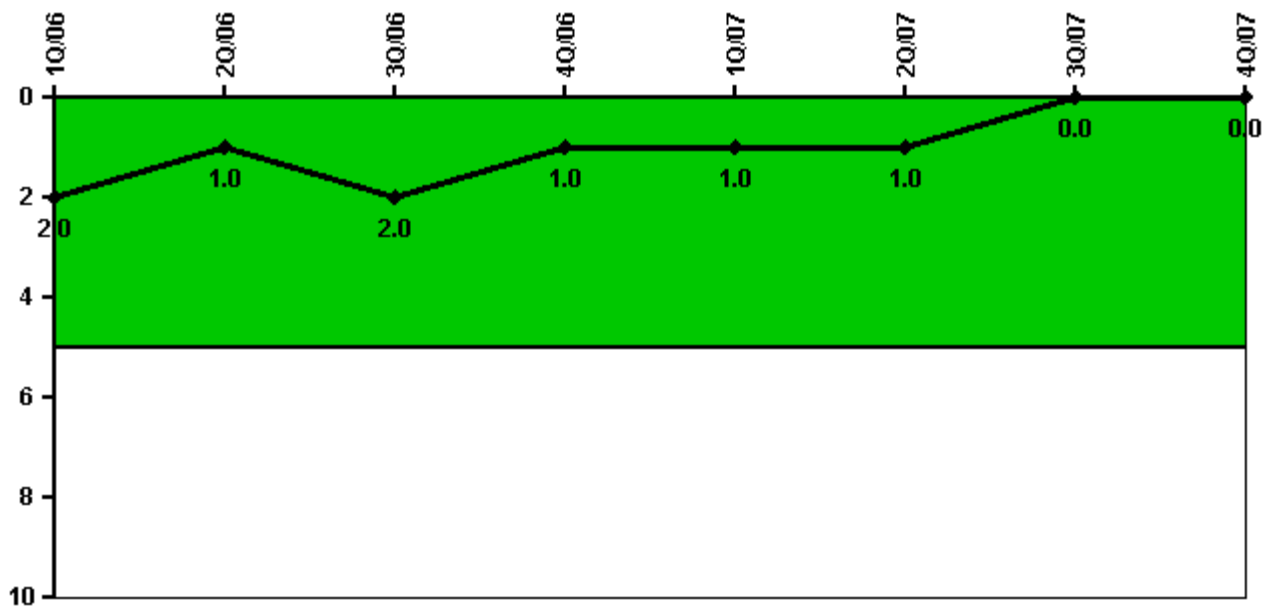
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



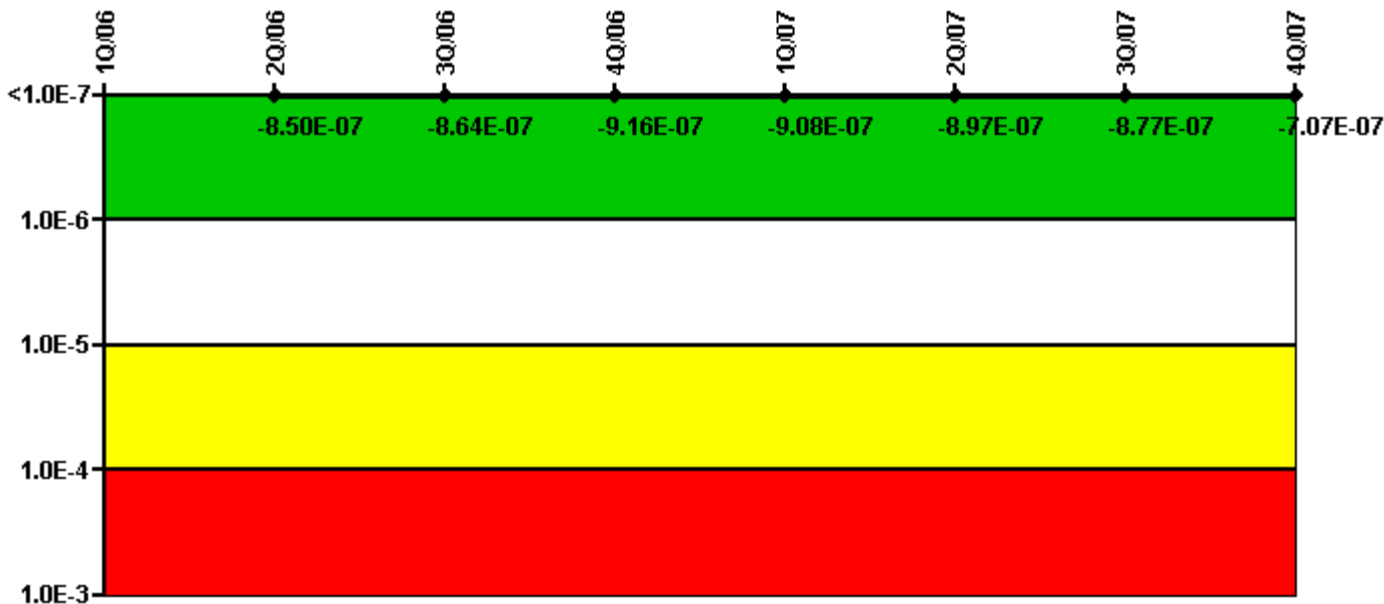
Thresholds: White > 5.0

Notes

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

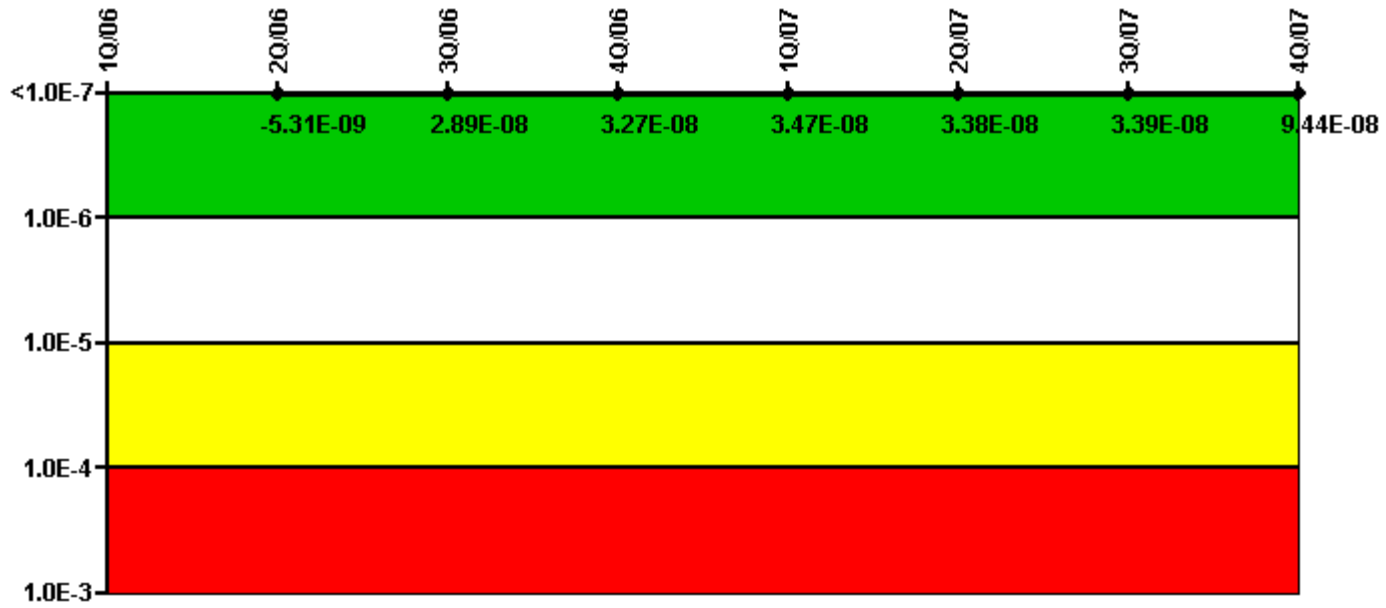
Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (Δ CDF)		1.10E-07	7.60E-08	7.40E-08	7.20E-08	7.30E-08	7.30E-08	3.30E-08
URI (Δ CDF)		-9.60E-07	-9.40E-07	-9.90E-07	-9.80E-07	-9.70E-07	-9.50E-07	-7.40E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-8.50E-07	-8.64E-07	-9.16E-07	-9.08E-07	-8.97E-07	-8.77E-07	-7.07E-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 > $1.00E-4$

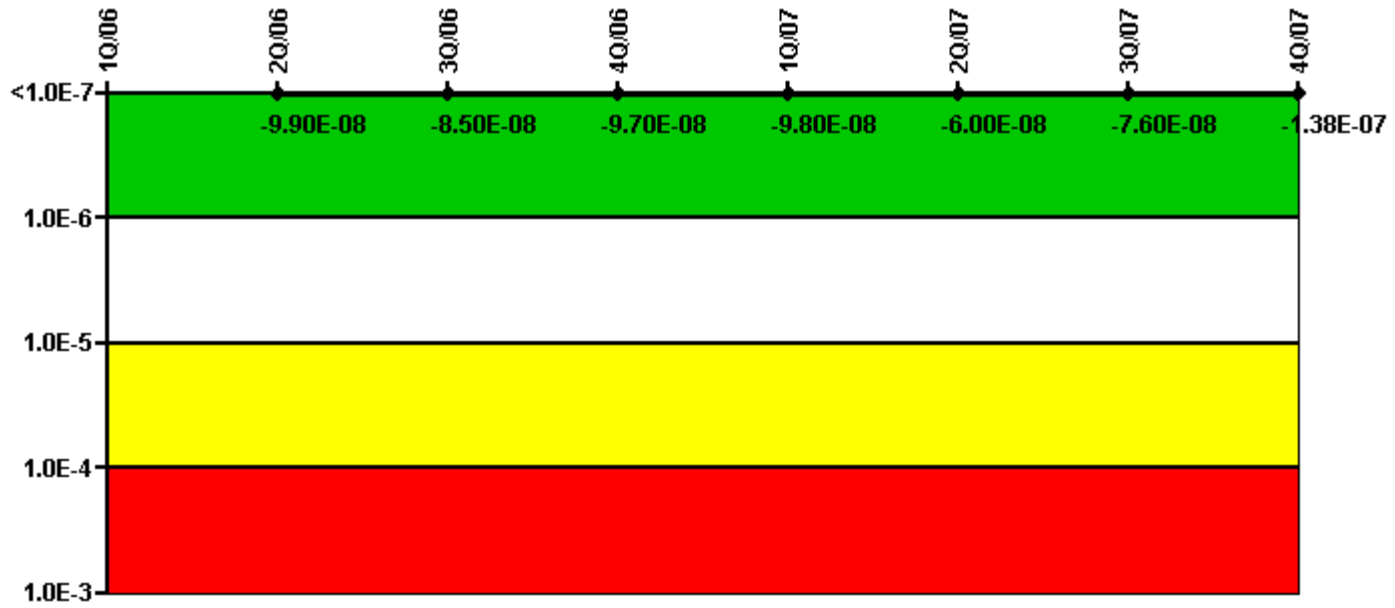
Notes

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 (Δ CDF)		$2.90E-10$	$8.80E-10$	$6.70E-09$	$7.70E-09$	$7.80E-09$	$7.90E-09$	$7.40E-09$
URI (Δ CDF)		$-5.60E-09$	$2.80E-08$	$2.60E-08$	$2.70E-08$	$2.60E-08$	$2.60E-08$	$8.70E-08$
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		$-5.31E-09$	$2.89E-08$	$3.27E-08$	$3.47E-08$	$3.38E-08$	$3.39E-08$	$9.44E-08$

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

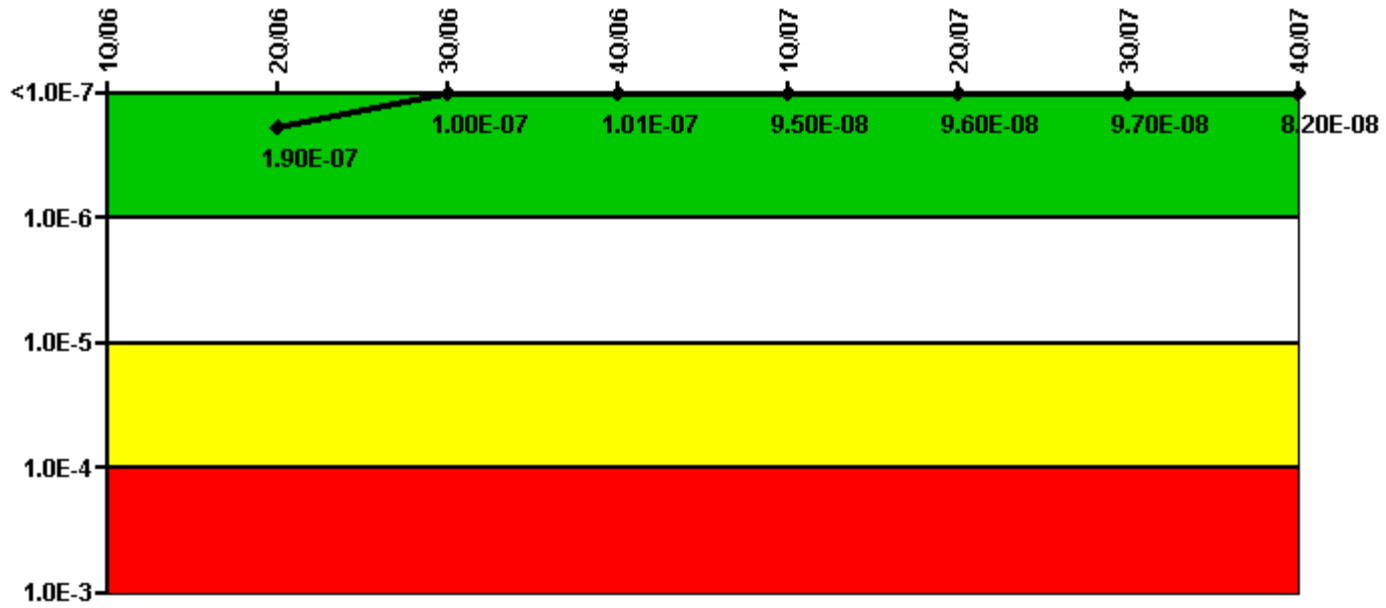
Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (Δ CDF)		2.10E-08	2.50E-08	2.30E-08	2.20E-08	5.00E-08	3.40E-08	-2.80E-08
URI (Δ CDF)		-1.20E-07	-1.10E-07	-1.20E-07	-1.20E-07	-1.10E-07	-1.10E-07	-1.10E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-9.90E-08	-8.50E-08	-9.70E-08	-9.80E-08	-6.00E-08	-7.60E-08	-1.38E-07

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

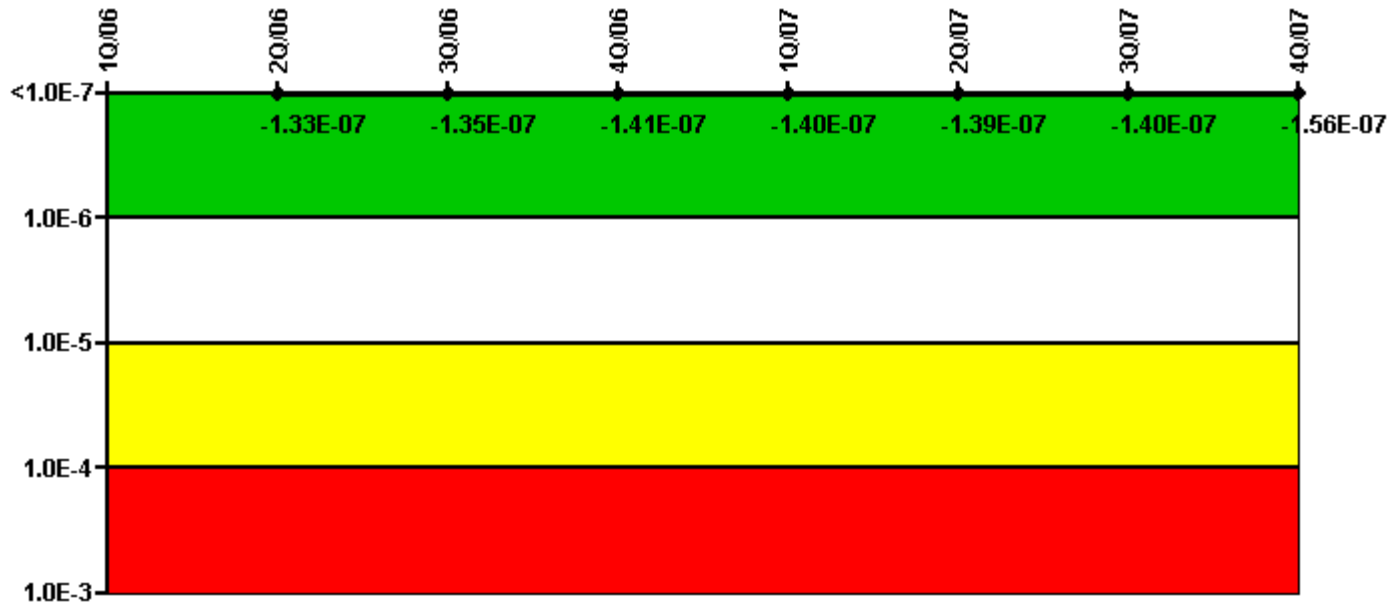
Notes

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 (Δ CDF)		2.00E-08	2.00E-08	1.70E-08	1.10E-08	1.10E-08	1.10E-08	-5.00E-09
URI (Δ CDF)		1.70E-07	8.00E-08	8.40E-08	8.40E-08	8.50E-08	8.60E-08	8.70E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		1.90E-07	1.00E-07	1.01E-07	9.50E-08	9.60E-08	9.70E-08	8.20E-08

Licensee Comments:

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

Mitigating Systems Performance Index, Cooling Water Systems



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

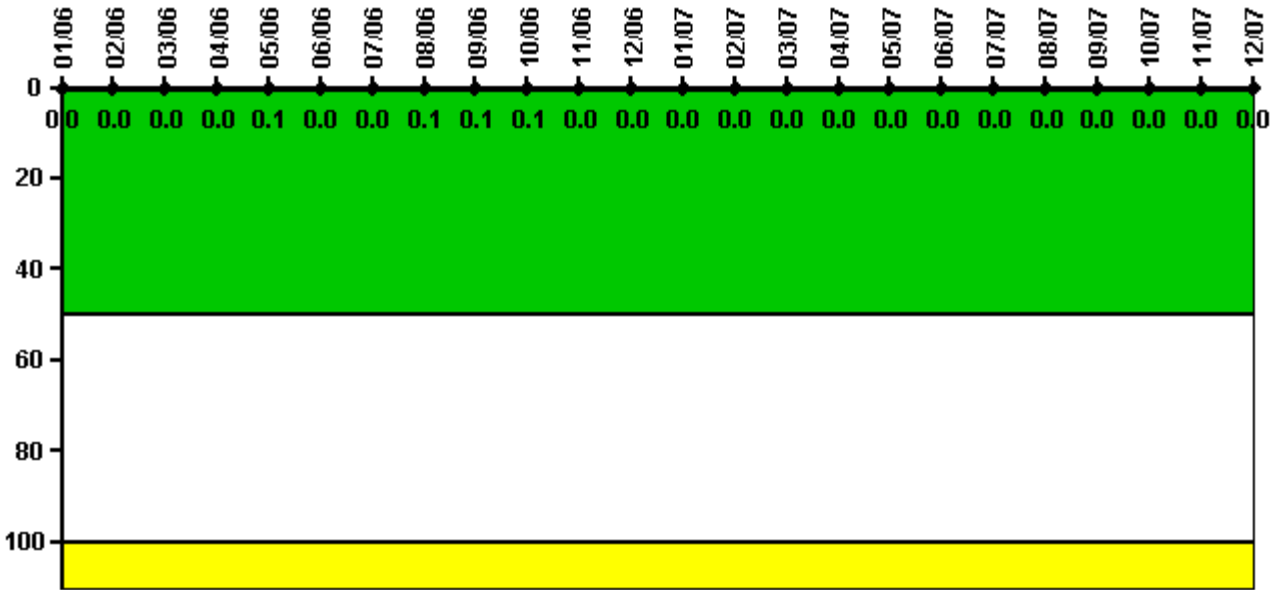
Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (Δ CDF)		-2.50E-09	-5.10E-09	-1.10E-09	1.30E-10	8.10E-10	1.90E-10	-5.90E-09
URI (Δ CDF)		-1.30E-07	-1.30E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.50E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-1.33E-07	-1.35E-07	-1.41E-07	-1.40E-07	-1.39E-07	-1.40E-07	-1.56E-07

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

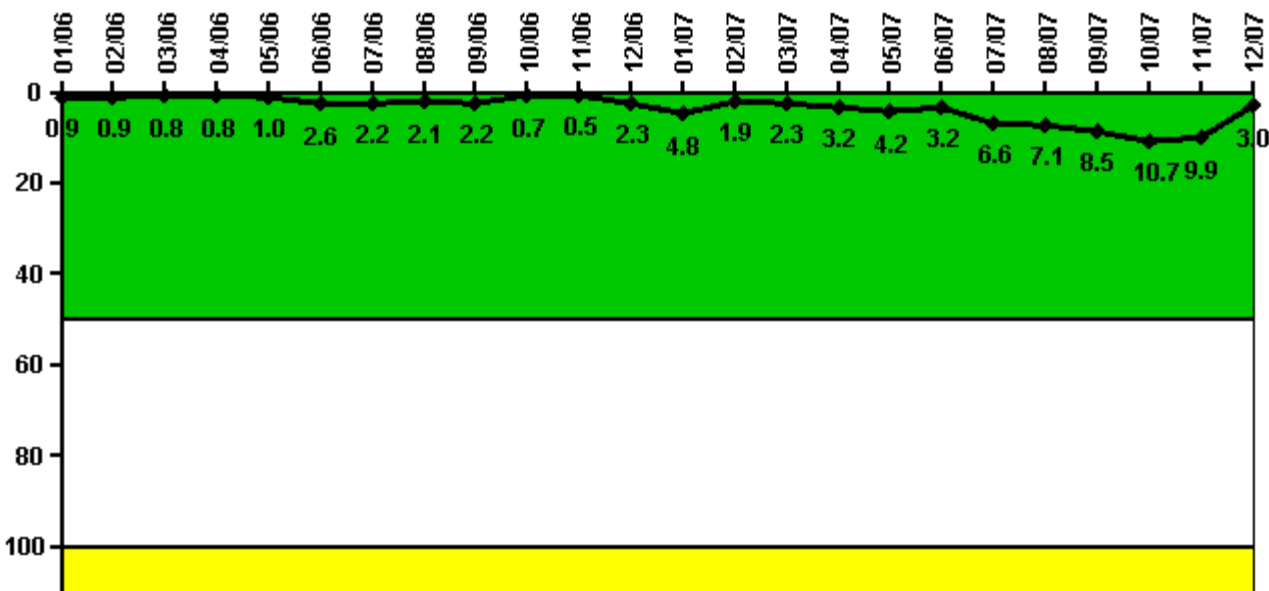
Notes

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	0.000422	0.000347	0.000470	0.000473	0.000508	0.000487	0.000498	0.000506	0.000815	0.000504	0.000298	0.000386
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0.1	0	0	0.1	0.1	0.1	0	0

Reactor Coolant System Activity	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum activity	0.000341	0.000394	0.000367	0.000365	0.000428	0.000411	0.000437	0.000407	0.000355	0.000351	0.000345	0.000397
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



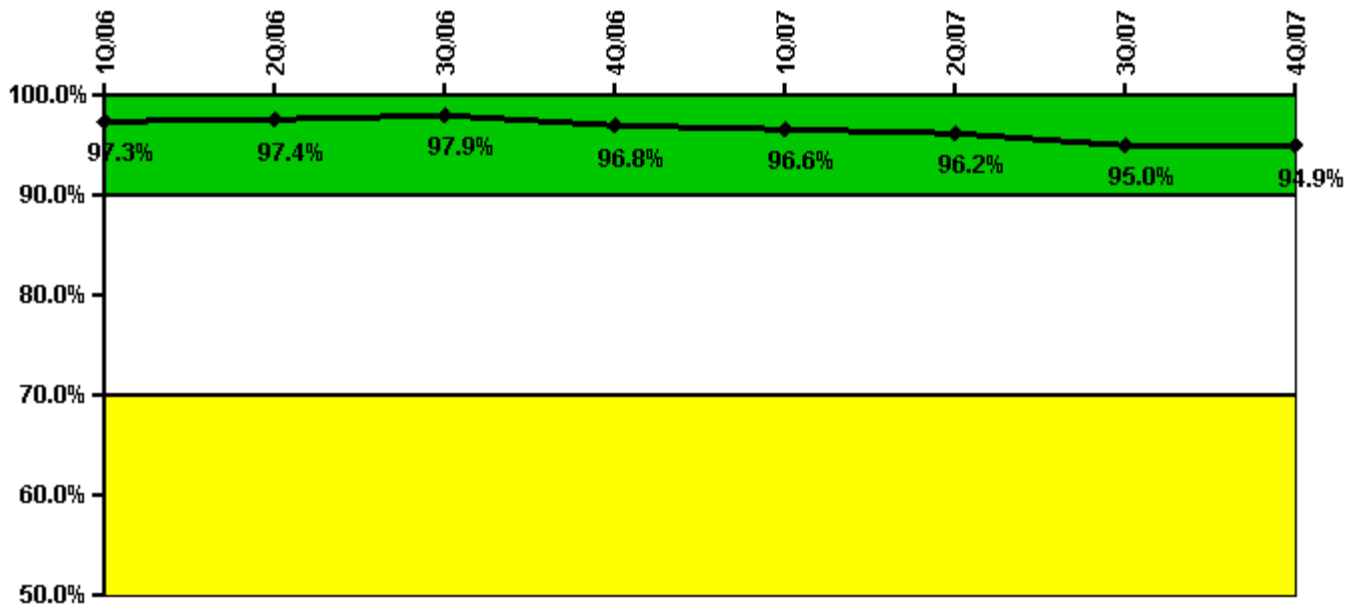
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum leakage	0.090	0.090	0.080	0.080	0.100	0.260	0.220	0.210	0.220	0.070	0.050	0.230
Technical specification limit	10.0	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	0.8	1.0	2.6	2.2	2.1	2.2	0.7	0.5	2.3
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	0.480	0.190	0.230	0.320	0.420	0.320	0.660	0.710	0.850	1.070	0.990	0.300
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	4.8	1.9	2.3	3.2	4.2	3.2	6.6	7.1	8.5	10.7	9.9	3.0

Licensee Comments: none

Drill/Exercise Performance



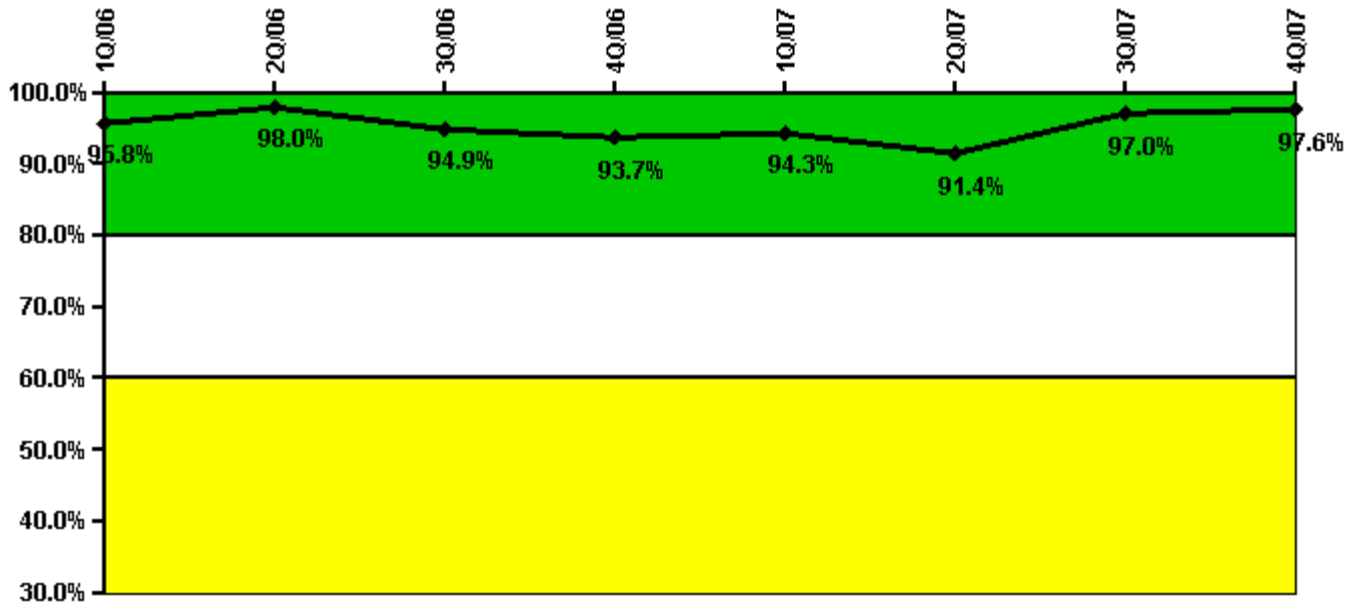
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful opportunities	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



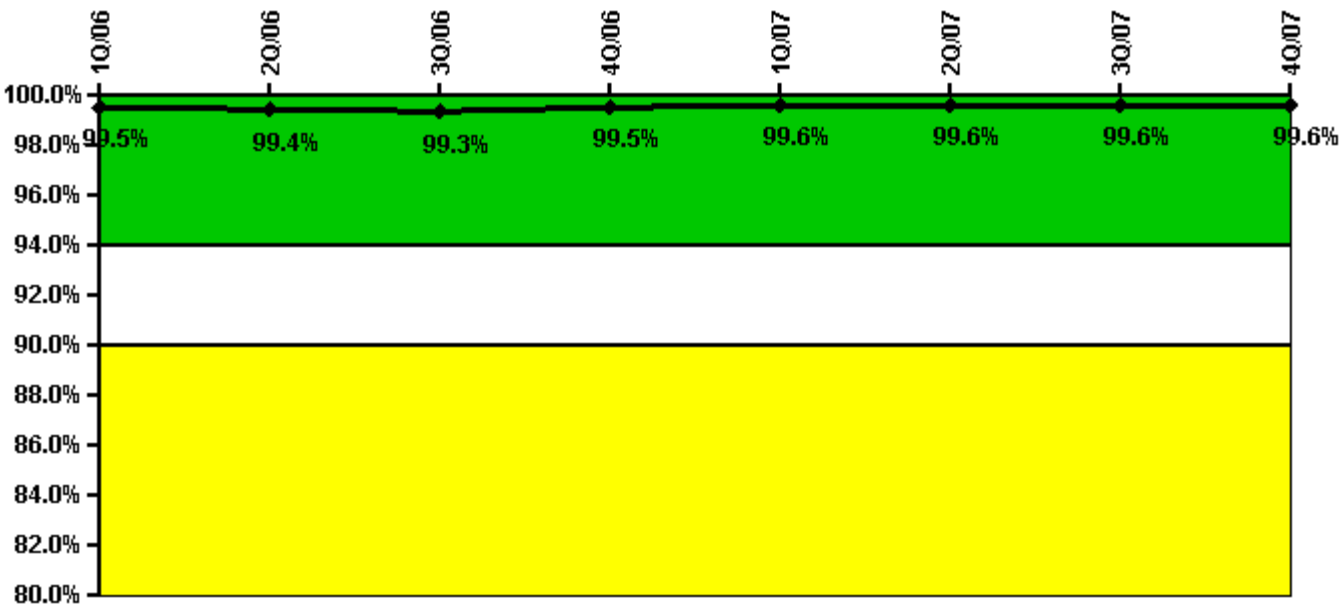
Thresholds: White < 80.0% Yellow < 60.0%

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



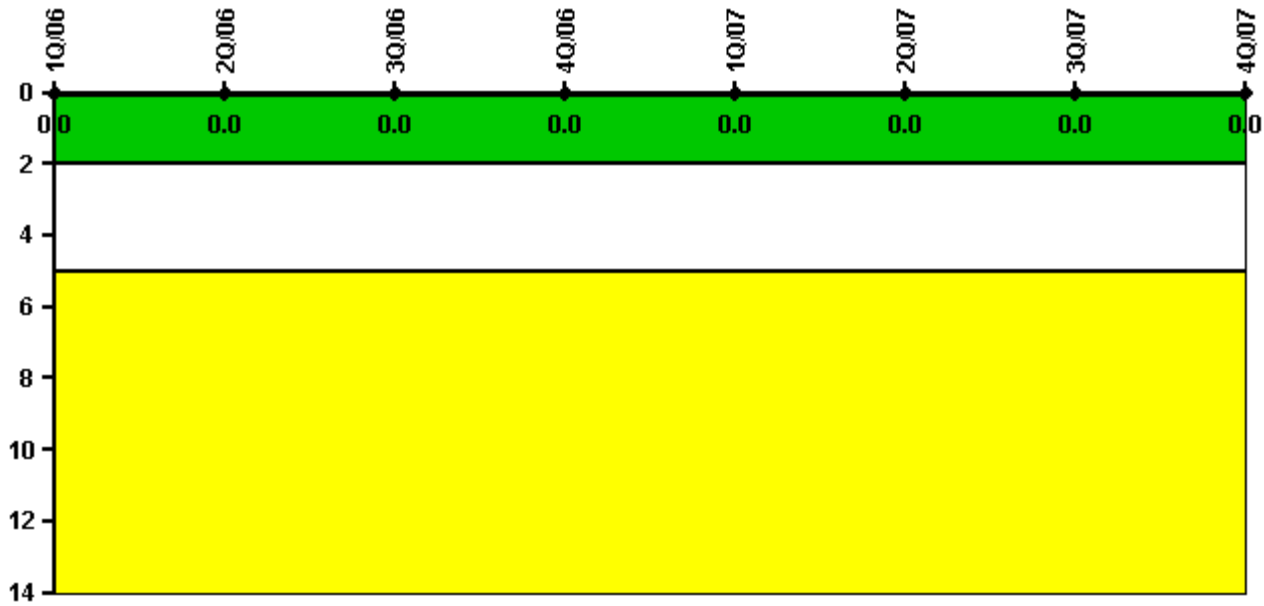
Thresholds: White < 94.0% Yellow < 90.0%

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



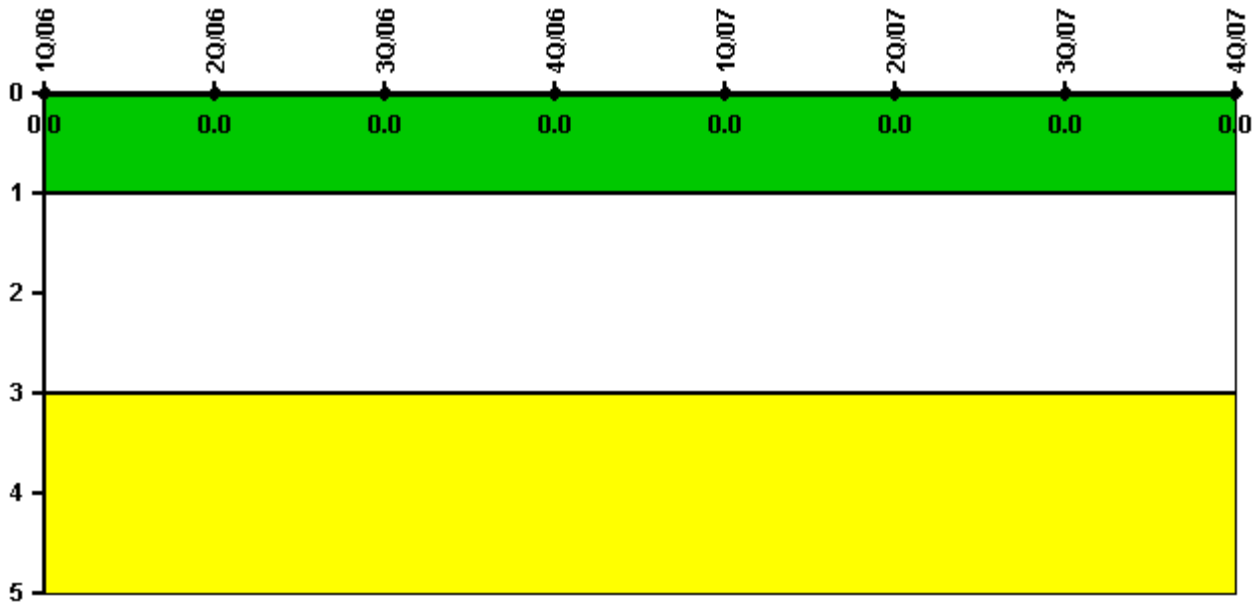
Thresholds: White > 2.0 Yellow > 5.0

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

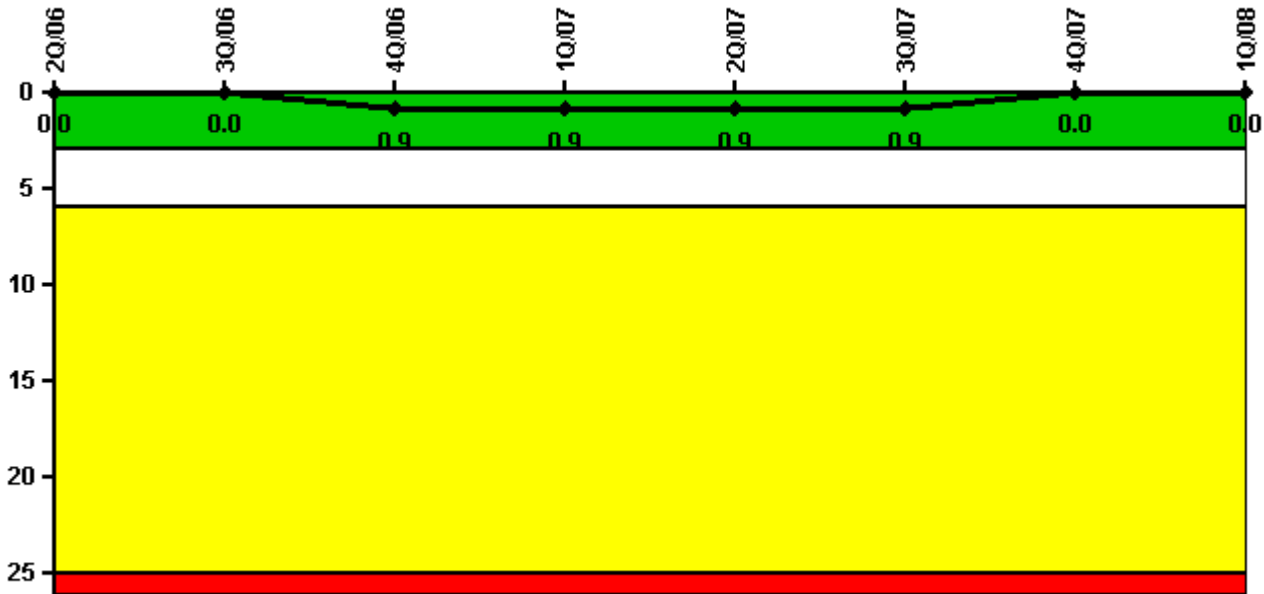
[Physical Protection](#) information not publicly available.

Surry 2

1Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



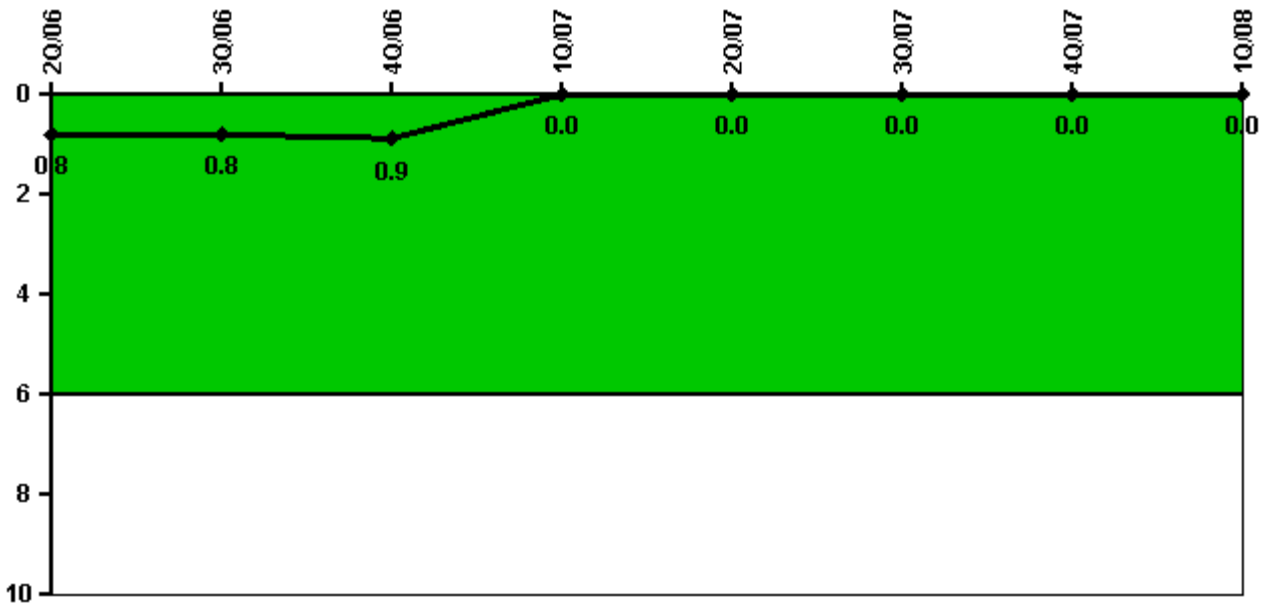
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2183.0	2208.0	1170.7	2159.0	2184.0	2208.0	2209.0	2183.0
Indicator value	0	0	0.9	0.9	0.9	0.9	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



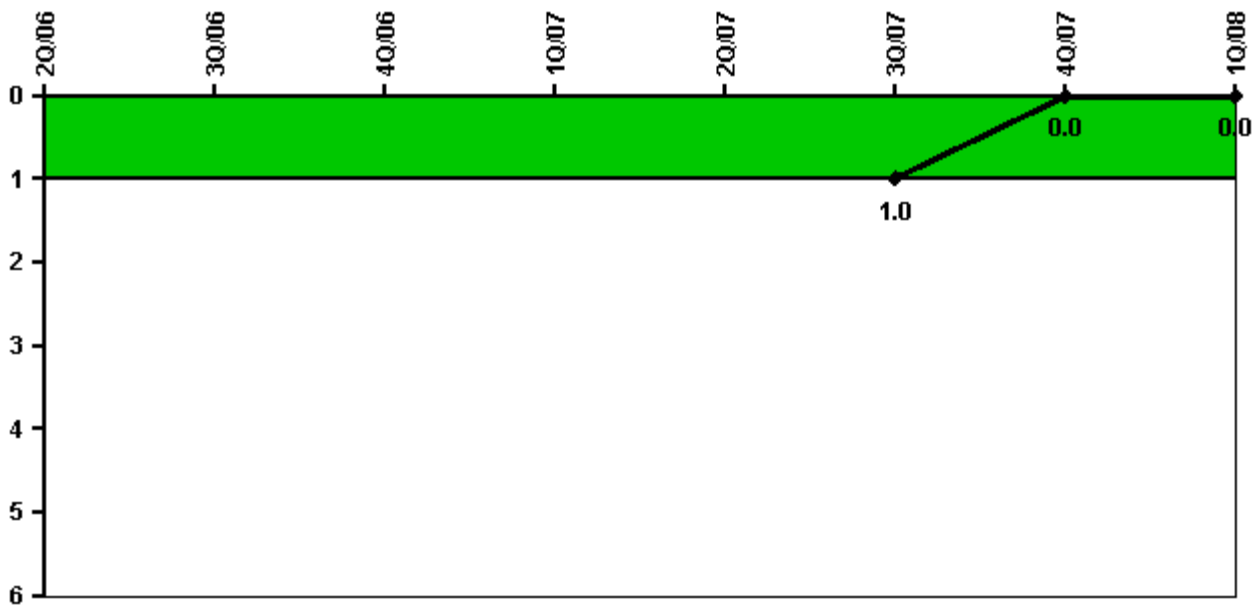
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2183.0	2208.0	1170.7	2159.0	2184.0	2208.0	2209.0	2183.0
Indicator value	0.8	0.8	0.9	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



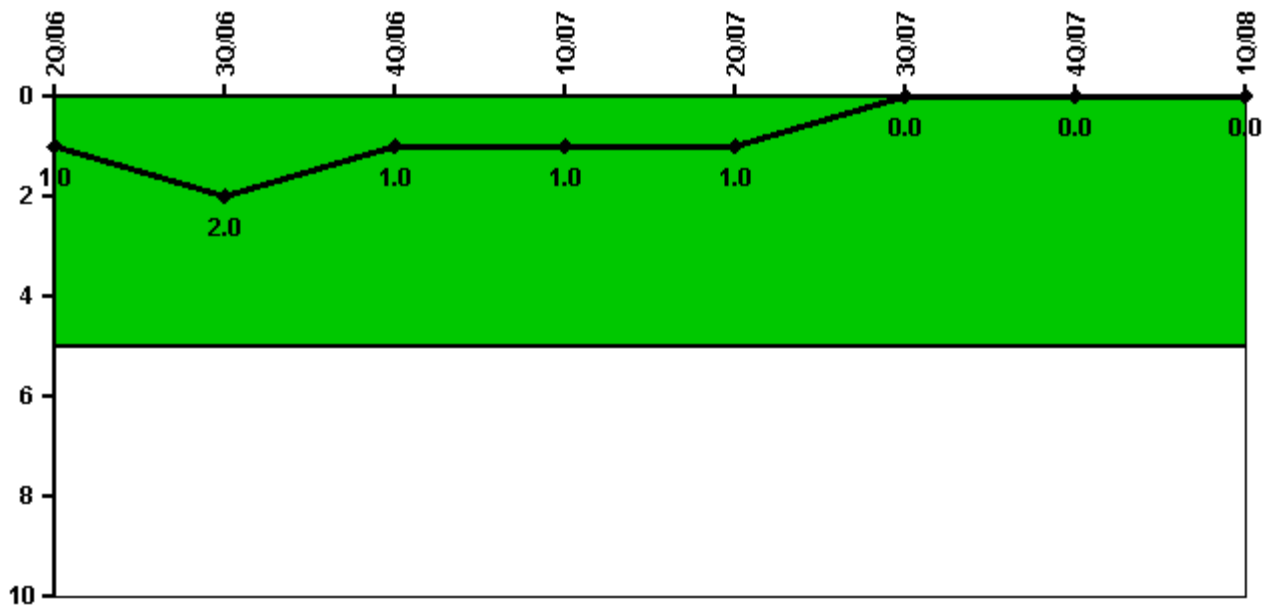
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



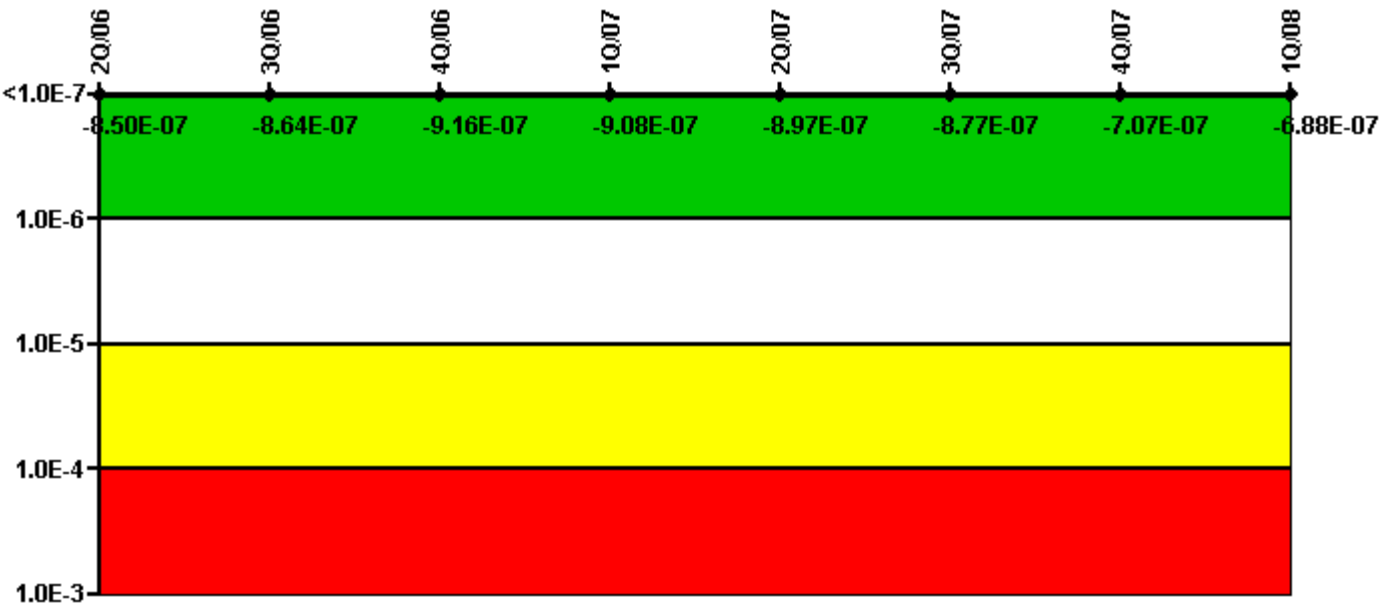
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

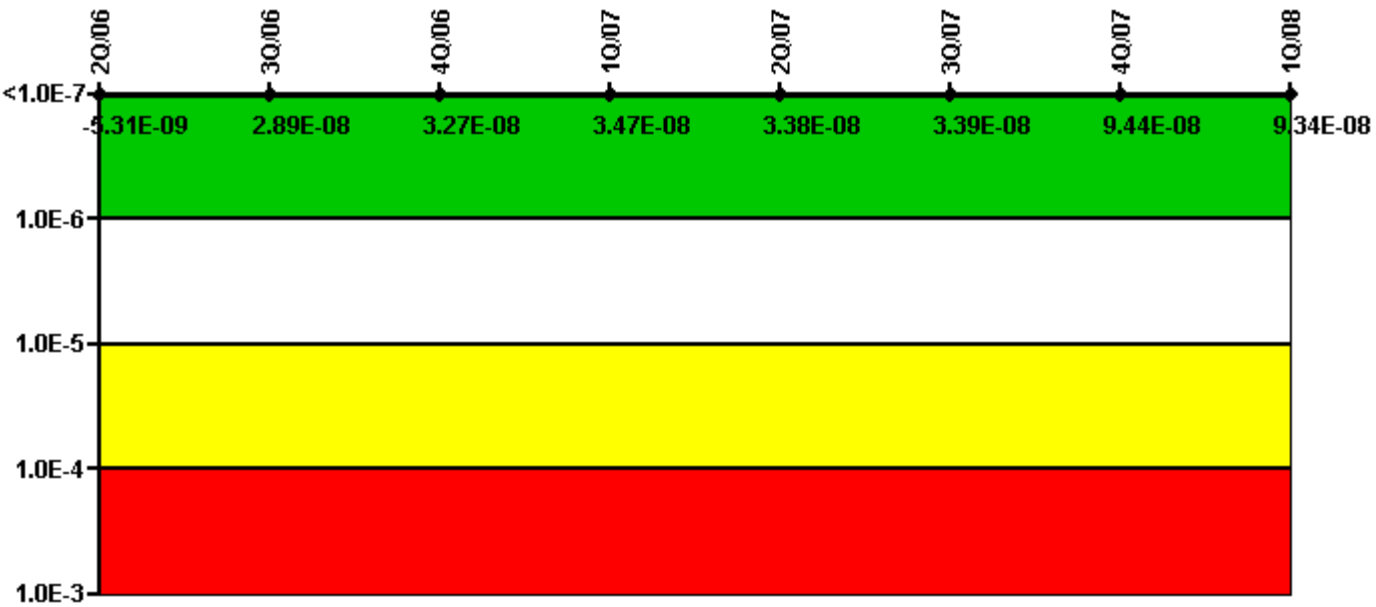
Notes

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)	1.10E-07	7.60E-08	7.40E-08	7.20E-08	7.30E-08	7.30E-08	3.30E-08	6.20E-08
URI (ΔCDF)	-9.60E-07	-9.40E-07	-9.90E-07	-9.80E-07	-9.70E-07	-9.50E-07	-7.40E-07	-7.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.50E-07	-8.64E-07	-9.16E-07	-9.08E-07	-8.97E-07	-8.77E-07	-7.07E-07	-6.88E-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

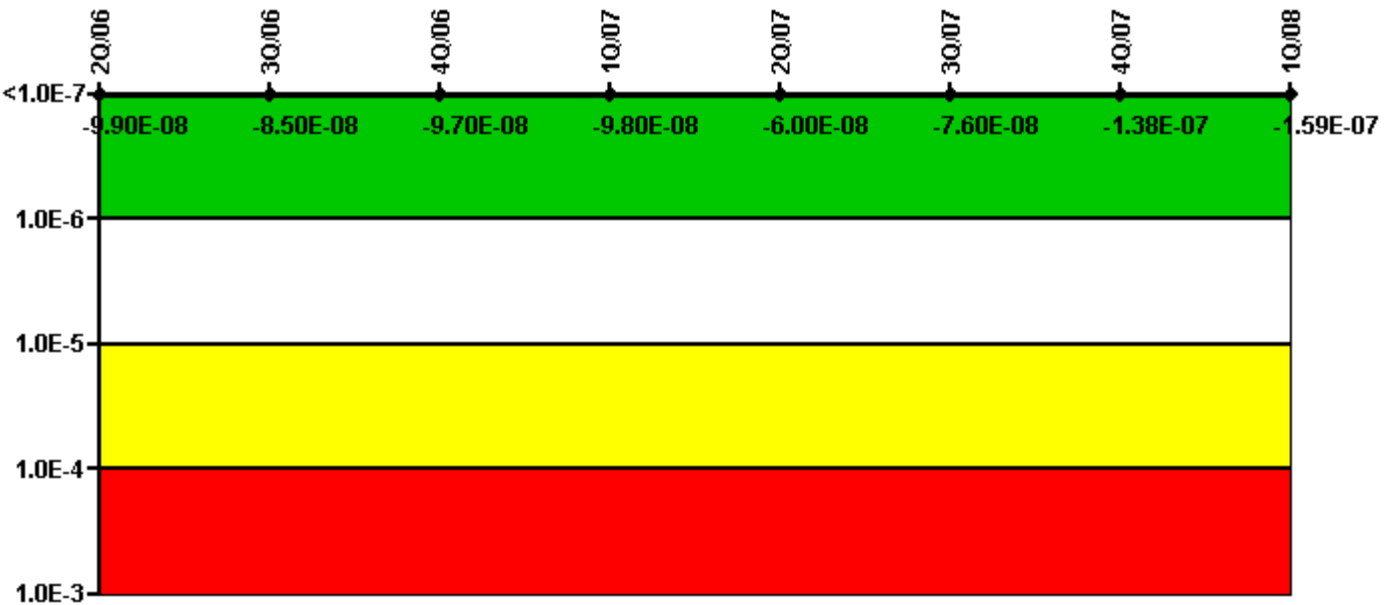
Notes

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)	2.90E-10	8.80E-10	6.70E-09	7.70E-09	7.80E-09	7.90E-09	7.40E-09	7.40E-09
URI (ΔCDF)	-5.60E-09	2.80E-08	2.60E-08	2.70E-08	2.60E-08	2.60E-08	8.70E-08	8.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.31E-09	2.89E-08	3.27E-08	3.47E-08	3.38E-08	3.39E-08	9.44E-08	9.34E-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

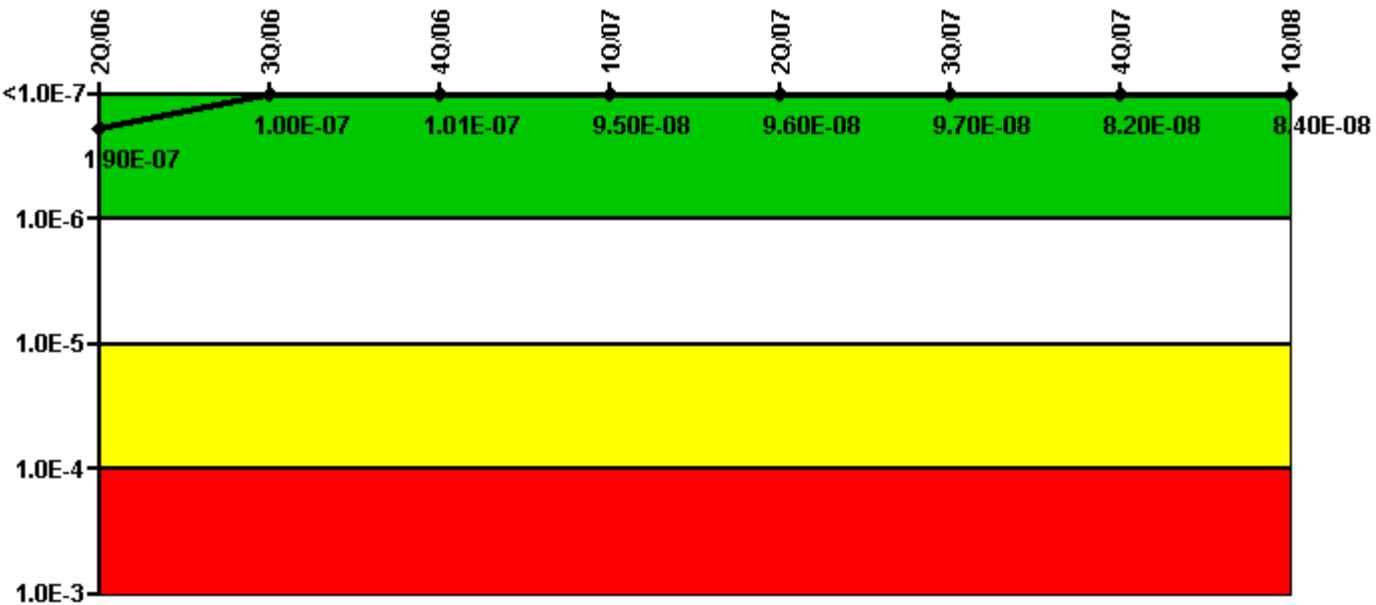
Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (Δ CDF)	2.10E-08	2.50E-08	2.30E-08	2.20E-08	5.00E-08	3.40E-08	-2.80E-08	-4.90E-08
URI (Δ CDF)	-1.20E-07	-1.10E-07	-1.20E-07	-1.20E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.90E-08	-8.50E-08	-9.70E-08	-9.80E-08	-6.00E-08	-7.60E-08	-1.38E-07	-1.59E-07

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

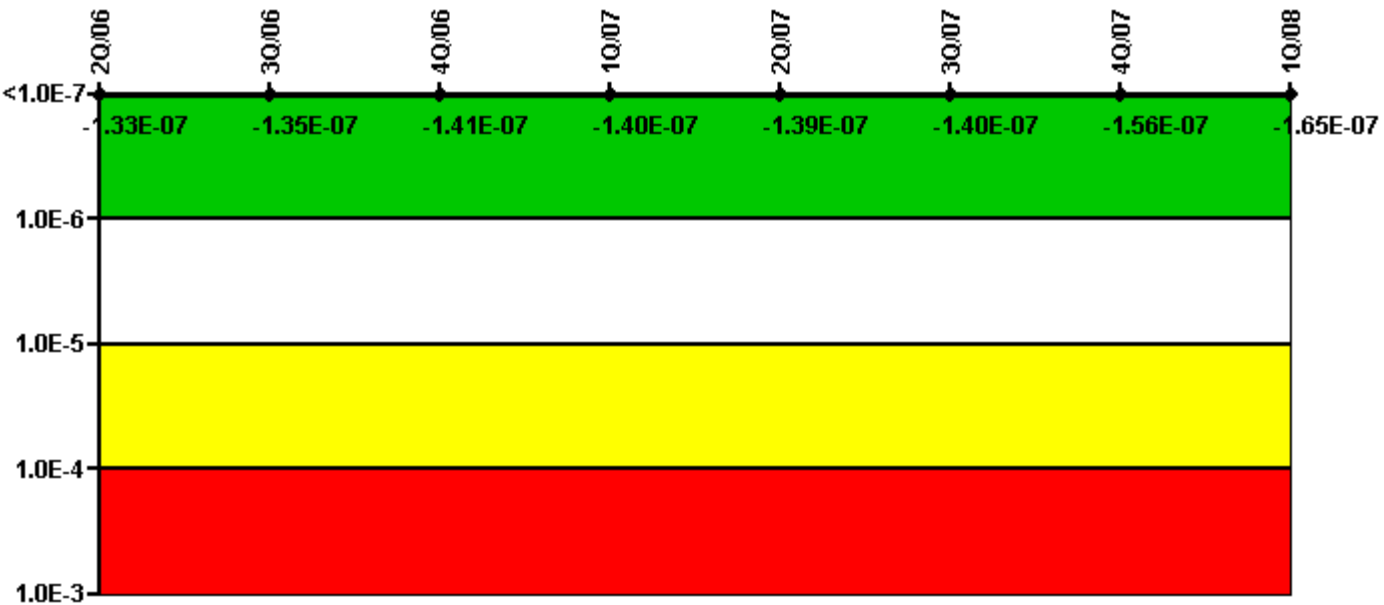
Notes

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 (Δ CDF)	2.00E-08	2.00E-08	1.70E-08	1.10E-08	1.10E-08	1.10E-08	-5.00E-09	-5.00E-09
URI (Δ CDF)	1.70E-07	8.00E-08	8.40E-08	8.40E-08	8.50E-08	8.60E-08	8.70E-08	8.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.90E-07	1.00E-07	1.01E-07	9.50E-08	9.60E-08	9.70E-08	8.20E-08	8.40E-08

Licensee Comments:

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

Mitigating Systems Performance Index, Cooling Water Systems



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

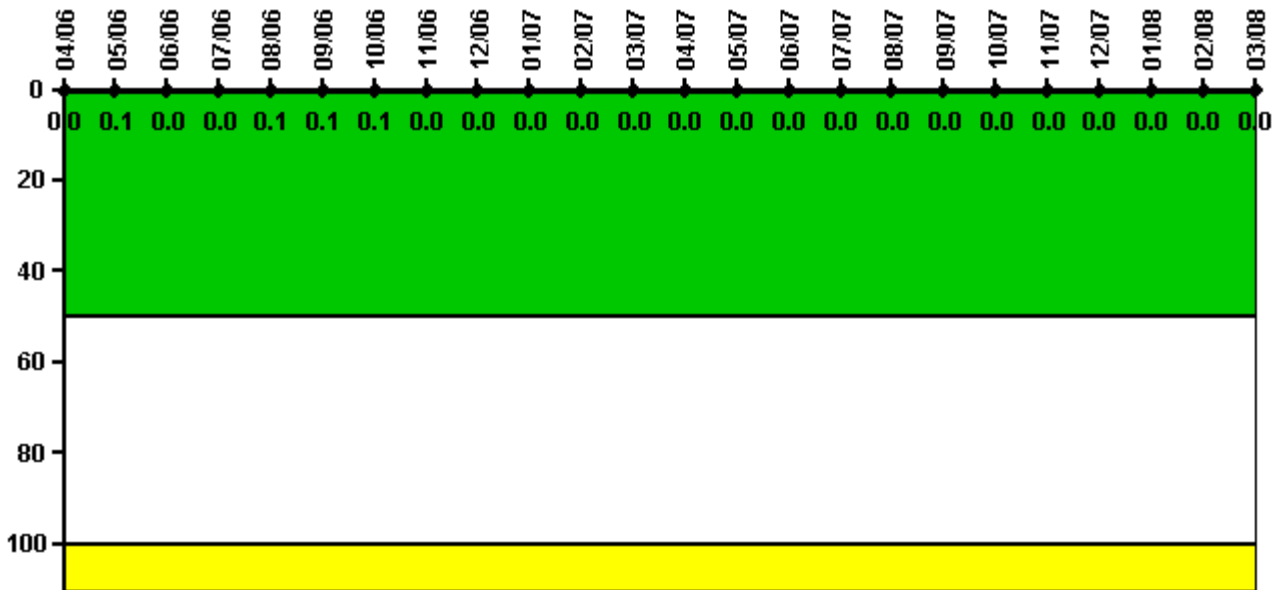
Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (Δ CDF)	-2.50E-09	-5.10E-09	-1.10E-09	1.30E-10	8.10E-10	1.90E-10	-5.90E-09	-1.50E-08
URI (Δ CDF)	-1.30E-07	-1.30E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.33E-07	-1.35E-07	-1.41E-07	-1.40E-07	-1.39E-07	-1.40E-07	-1.56E-07	-1.65E-07

Licensee Comments:

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

Reactor Coolant System Activity



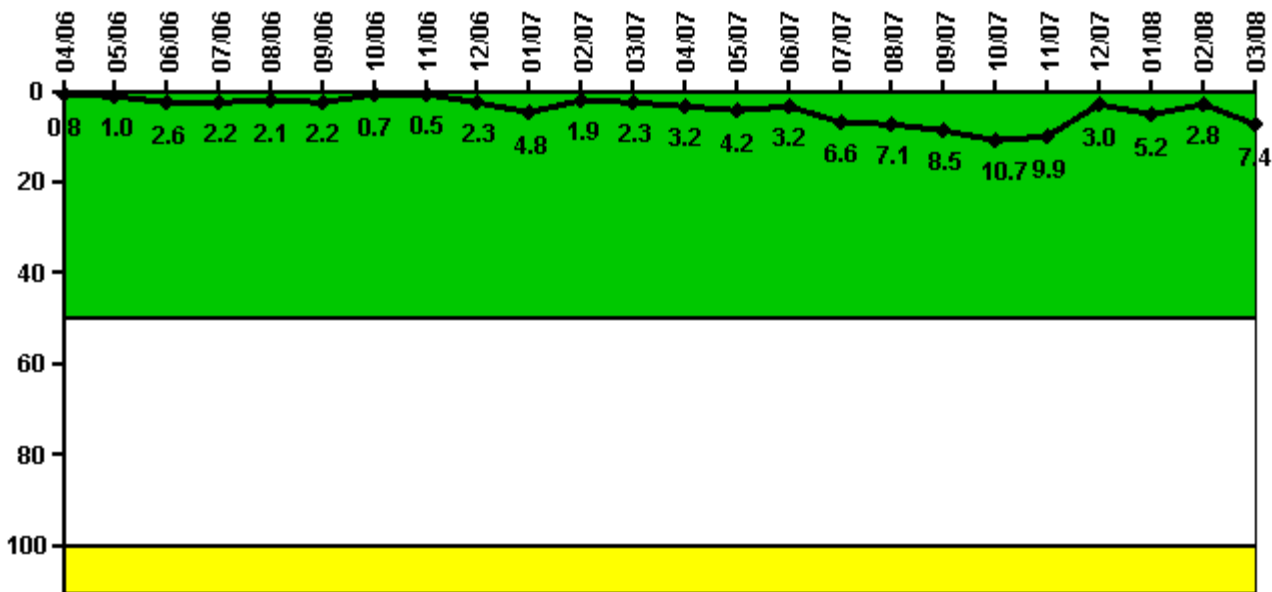
Thresholds: White > 50.0 Yellow > 100.0

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	0.000473	0.000508	0.000487	0.000498	0.000506	0.000815	0.000504	0.000298	0.000386	0.000341	0.000394	0.000367
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0.1	0	0	0.1	0.1	0.1	0	0	0	0	0
Reactor Coolant System Activity	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum activity	0.000365	0.000428	0.000411	0.000437	0.000407	0.000355	0.000351	0.000345	0.000397	0.000388	0.000338	0.000415
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



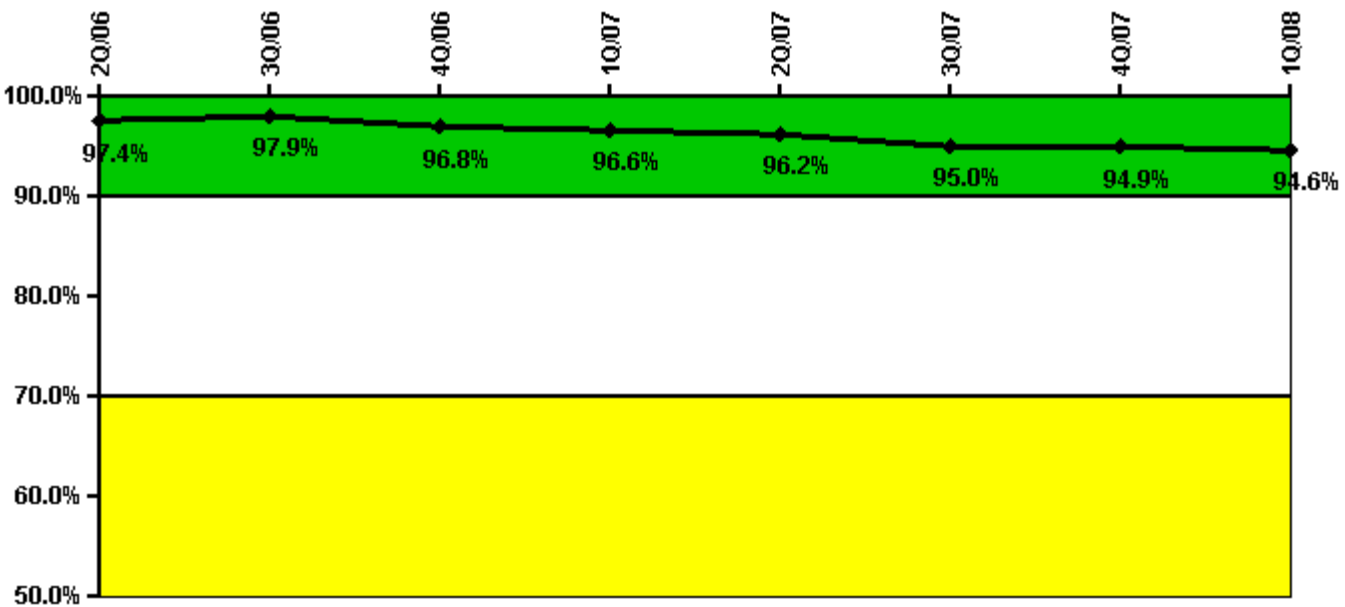
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum leakage	0.080	0.100	0.260	0.220	0.210	0.220	0.070	0.050	0.230	0.480	0.190	0.230
Technical specification limit	10.0	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	1.0	2.6	2.2	2.1	2.2	0.7	0.5	2.3	4.8	1.9	2.3
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	0.320	0.420	0.320	0.660	0.710	0.850	1.070	0.990	0.300	0.520	0.280	0.740
Technical specification limit	10.0	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	4.2	3.2	6.6	7.1	8.5	10.7	9.9	3.0	5.2	2.8	7.4

Licensee Comments: none

Drill/Exercise Performance



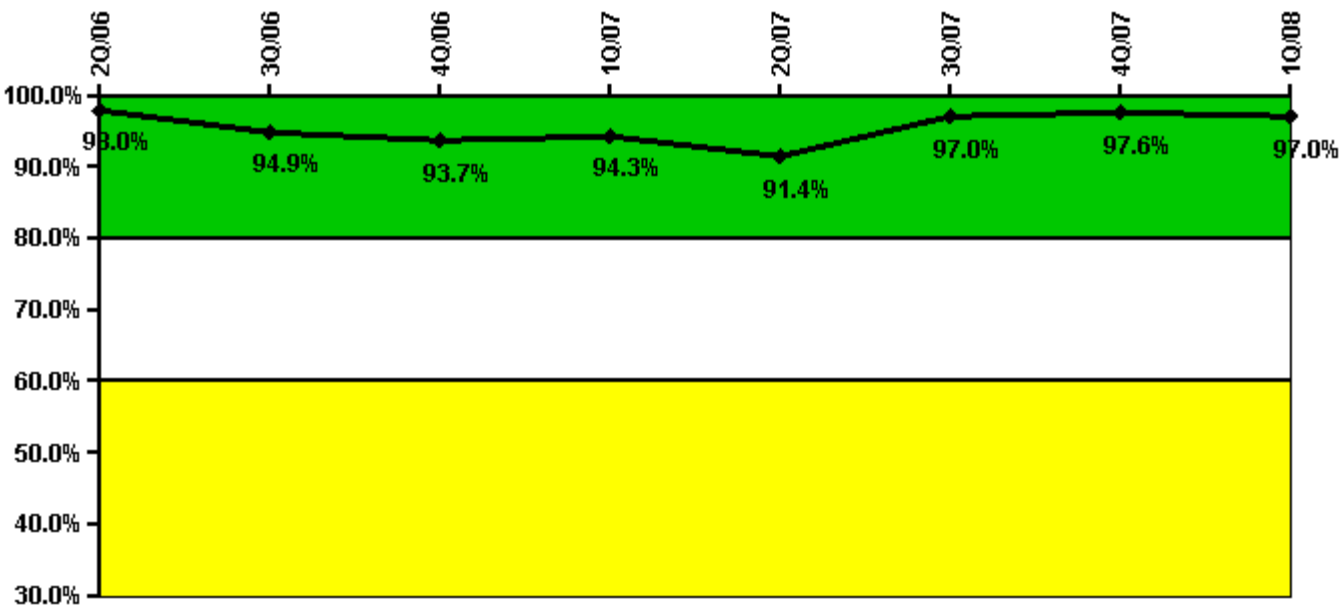
Thresholds: White < 90.0% Yellow < 70.0%

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



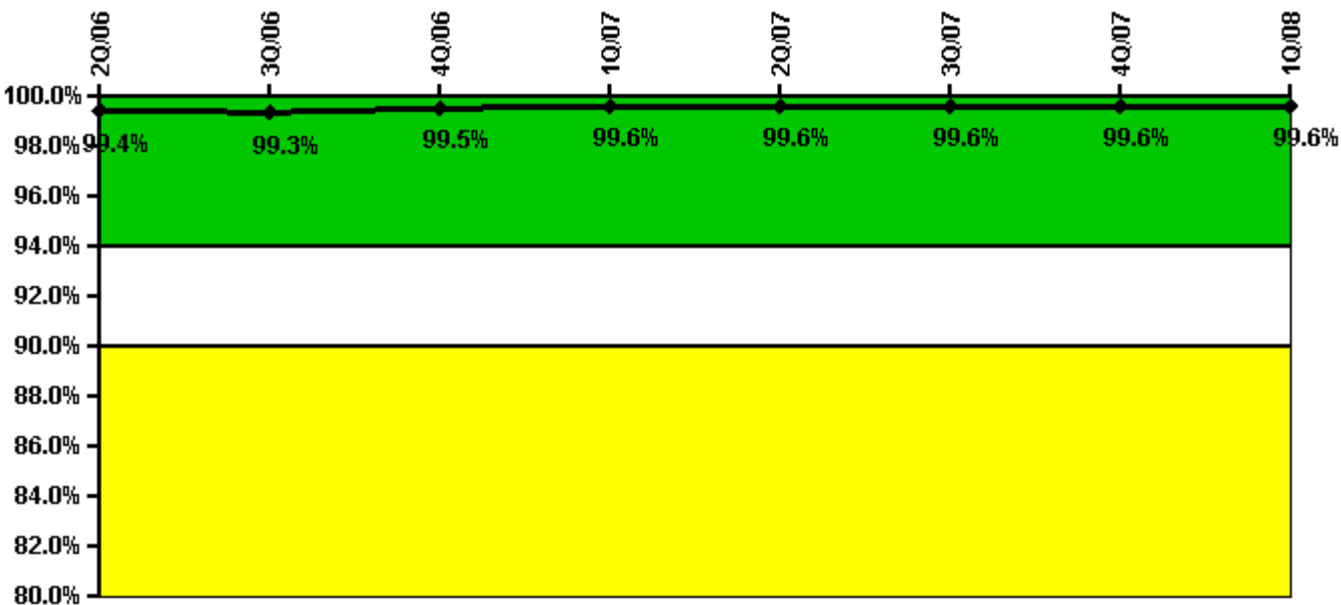
Thresholds: White < 80.0% Yellow < 60.0%

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



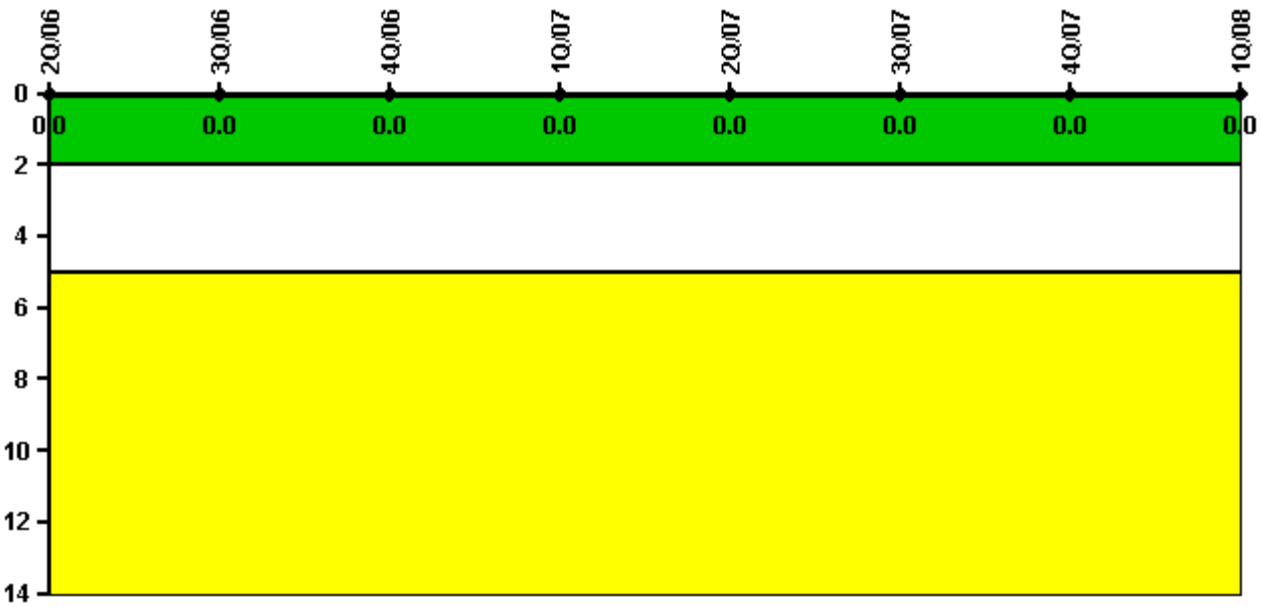
Thresholds: White < 94.0% Yellow < 90.0%

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



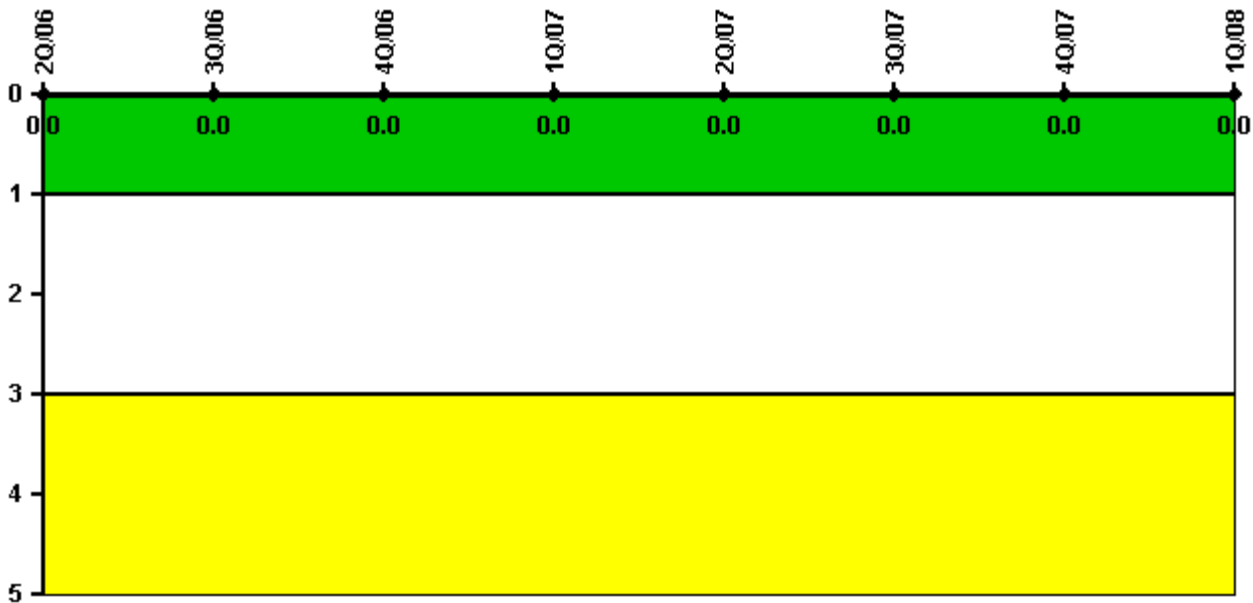
Thresholds: White > 2.0 Yellow > 5.0

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](#)

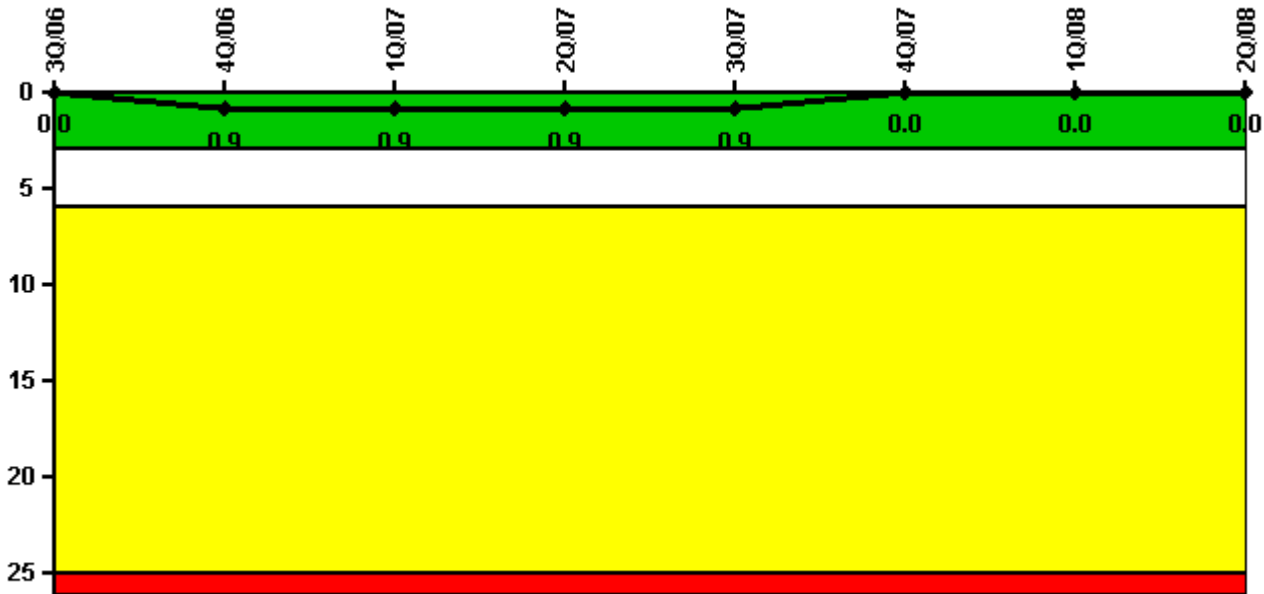
Last Modified: April 30, 2008

Surry 2

2Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



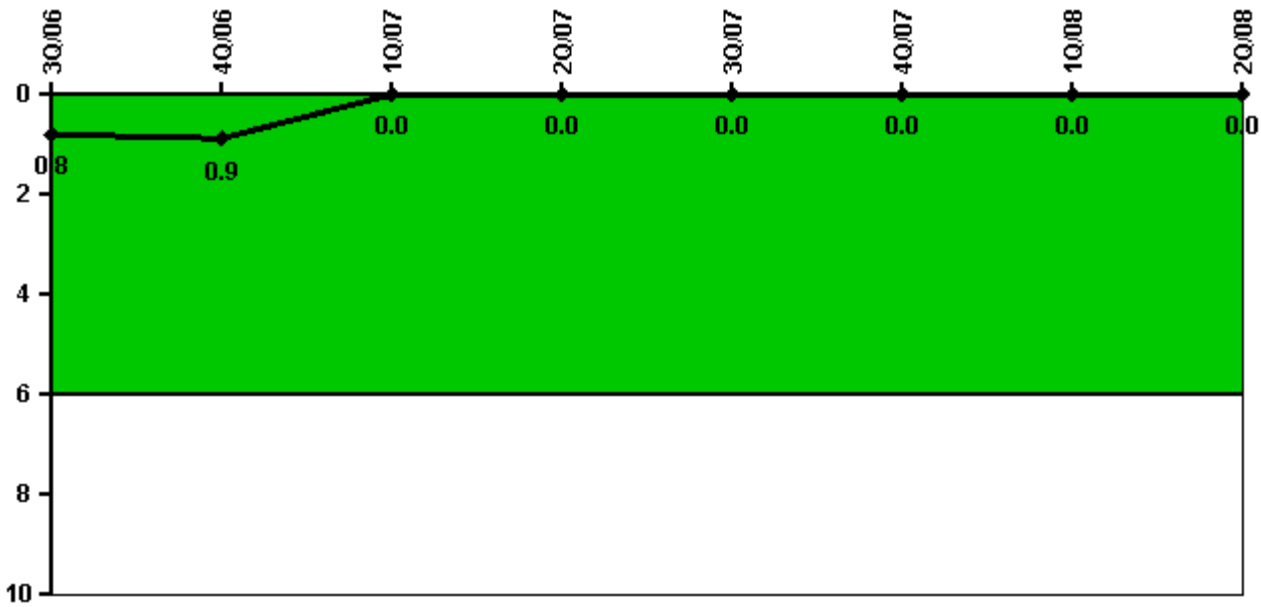
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2208.0	1170.7	2159.0	2184.0	2208.0	2209.0	2183.0	1622.6
Indicator value	0	0.9	0.9	0.9	0.9	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



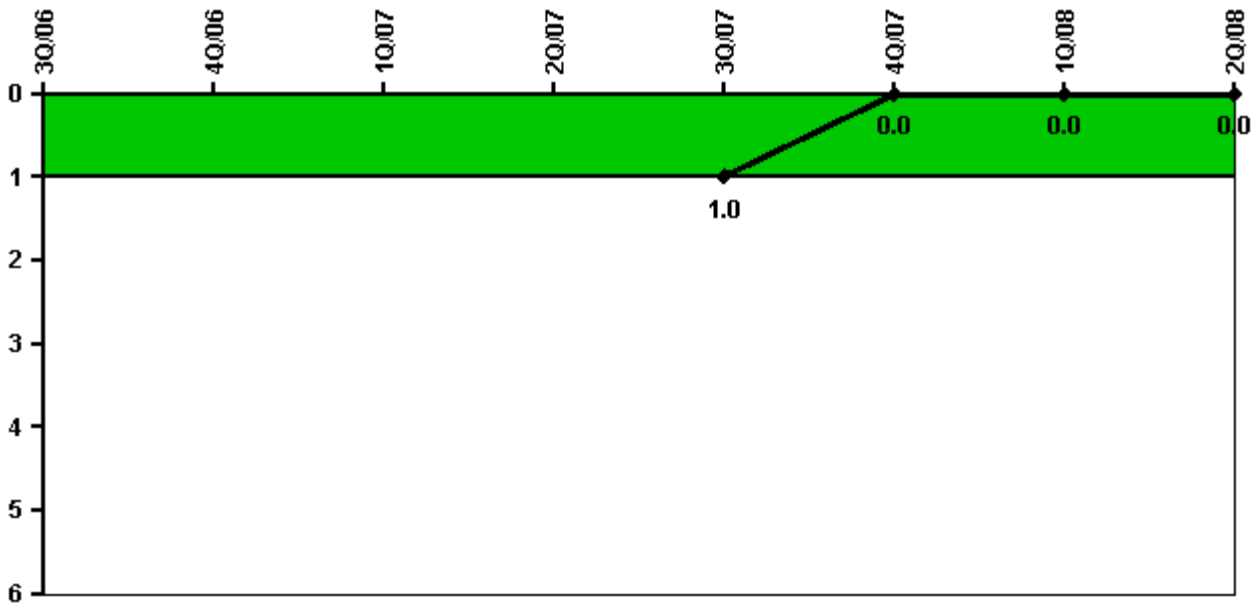
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	1170.7	2159.0	2184.0	2208.0	2209.0	2183.0	1622.6
Indicator value	0.8	0.9	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



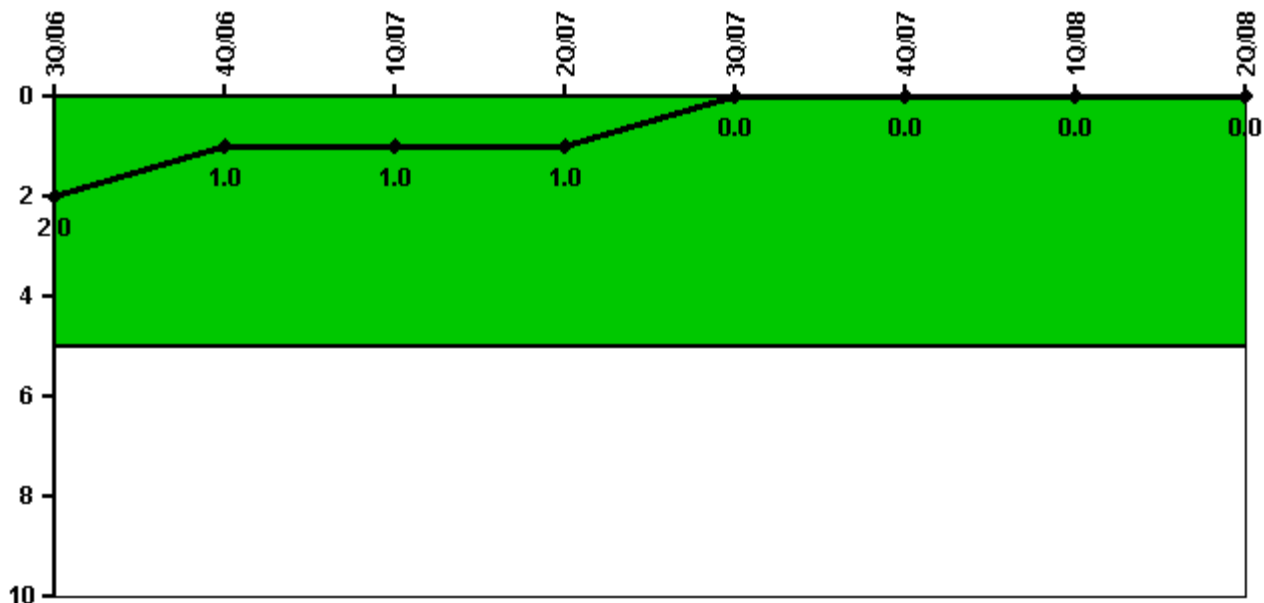
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



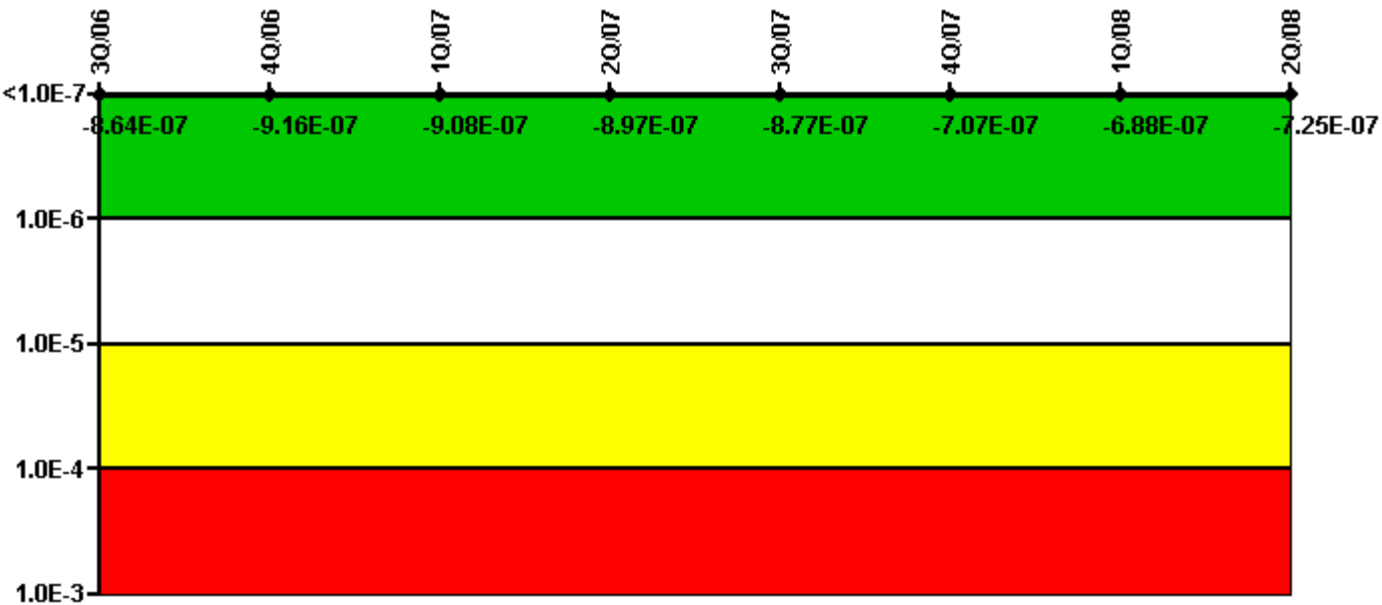
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



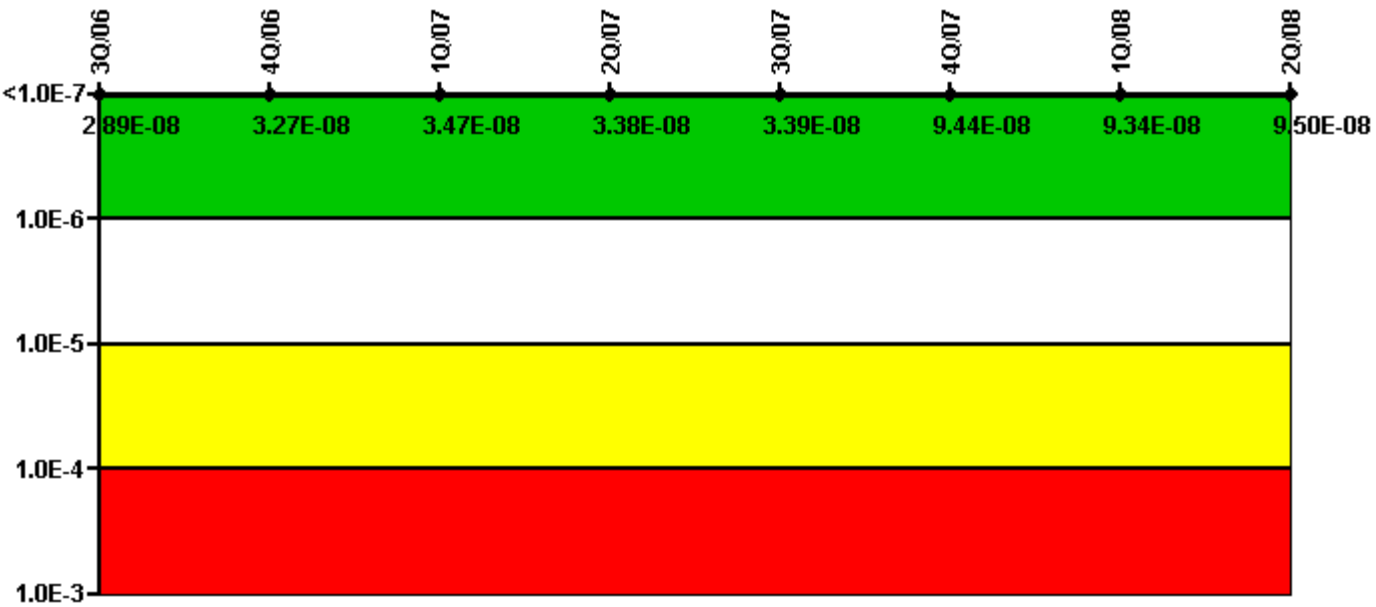
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (Δ CDF)	7.60E-08	7.40E-08	7.20E-08	7.30E-08	7.30E-08	3.30E-08	6.20E-08	4.50E-08
URI (Δ CDF)	-9.40E-07	-9.90E-07	-9.80E-07	-9.70E-07	-9.50E-07	-7.40E-07	-7.50E-07	-7.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.64E-07	-9.16E-07	-9.08E-07	-8.97E-07	-8.77E-07	-7.07E-07	-6.88E-07	-7.25E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



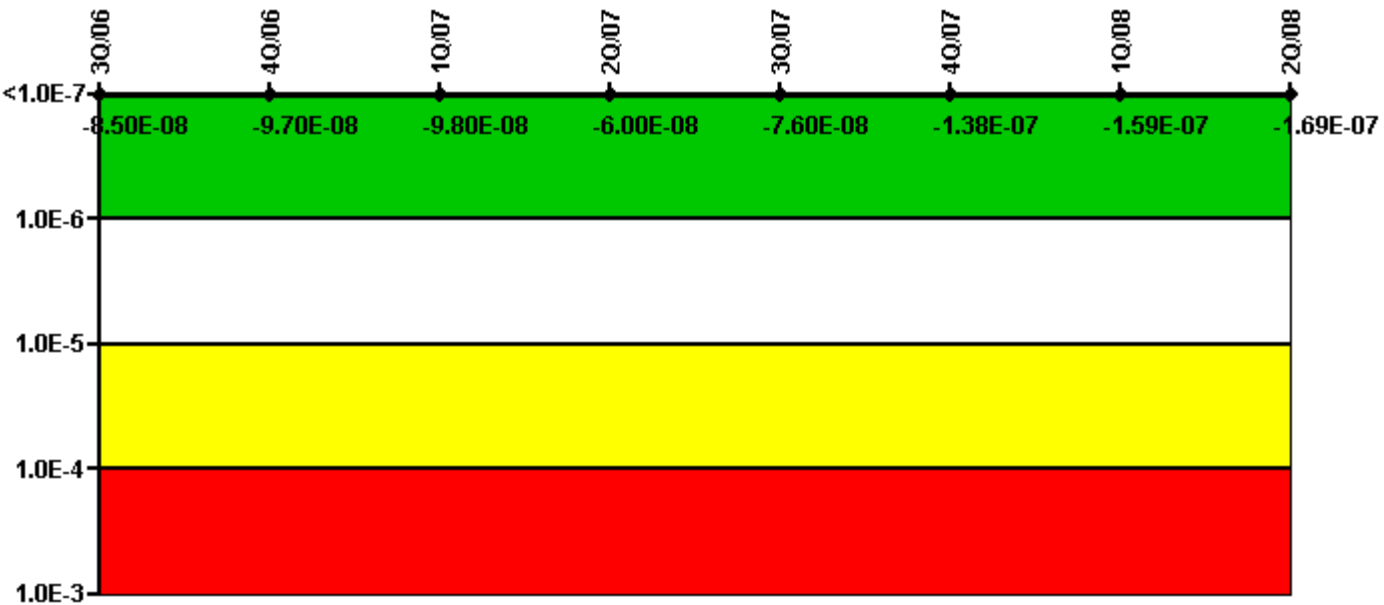
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	8.80E-10	6.70E-09	7.70E-09	7.80E-09	7.90E-09	7.40E-09	7.40E-09	1.30E-08
URI (ΔCDF)	2.80E-08	2.60E-08	2.70E-08	2.60E-08	2.60E-08	8.70E-08	8.60E-08	8.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.89E-08	3.27E-08	3.47E-08	3.38E-08	3.39E-08	9.44E-08	9.34E-08	9.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



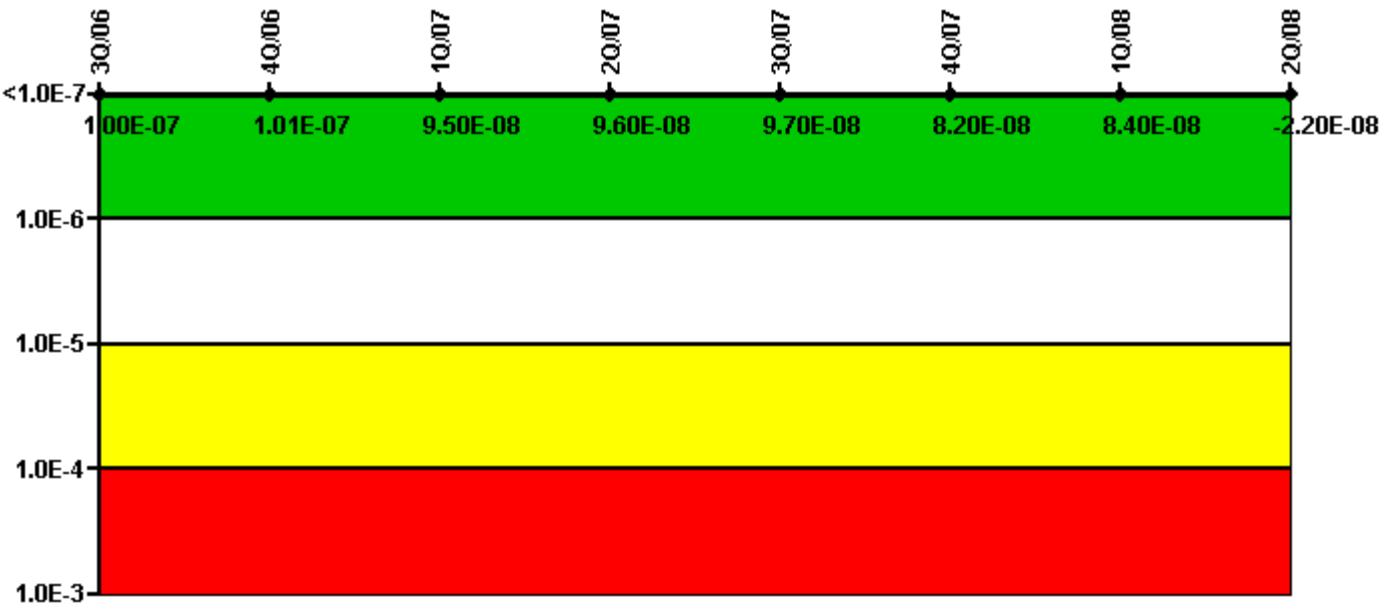
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (Δ CDF)	2.50E-08	2.30E-08	2.20E-08	5.00E-08	3.40E-08	-2.80E-08	-4.90E-08	-4.90E-08
URI (Δ CDF)	-1.10E-07	-1.20E-07	-1.20E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.50E-08	-9.70E-08	-9.80E-08	-6.00E-08	-7.60E-08	-1.38E-07	-1.59E-07	-1.69E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



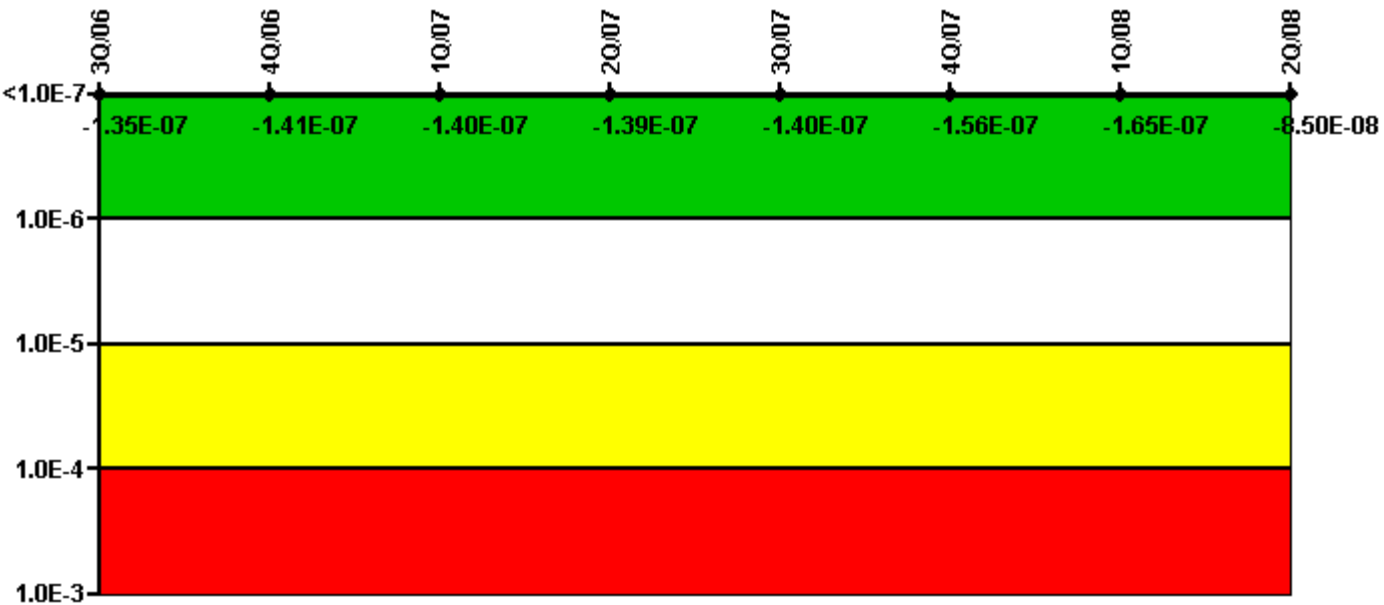
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (Δ CDF)	2.00E-08	1.70E-08	1.10E-08	1.10E-08	1.10E-08	-5.00E-09	-5.00E-09	-5.00E-09
URI (Δ CDF)	8.00E-08	8.40E-08	8.40E-08	8.50E-08	8.60E-08	8.70E-08	8.90E-08	-1.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.00E-07	1.01E-07	9.50E-08	9.60E-08	9.70E-08	8.20E-08	8.40E-08	-2.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



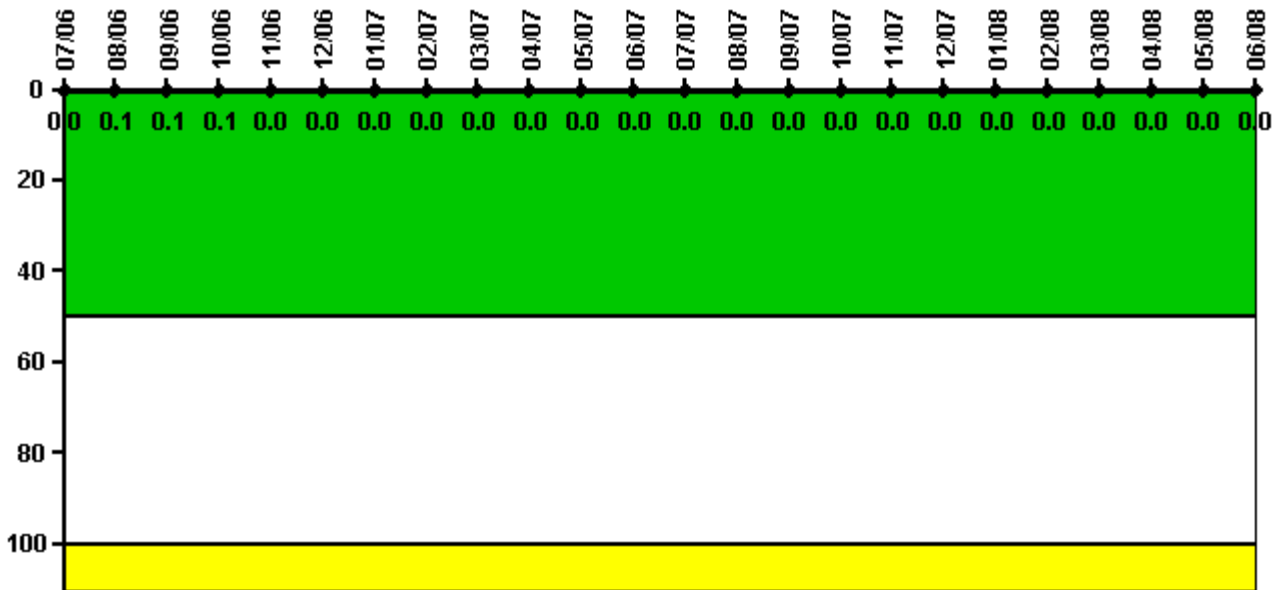
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (Δ CDF)	-5.10E-09	-1.10E-09	1.30E-10	8.10E-10	1.90E-10	-5.90E-09	-1.50E-08	6.50E-08
URI (Δ CDF)	-1.30E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.35E-07	-1.41E-07	-1.40E-07	-1.39E-07	-1.40E-07	-1.56E-07	-1.65E-07	-8.50E-08

Licensee Comments: none

Reactor Coolant System Activity



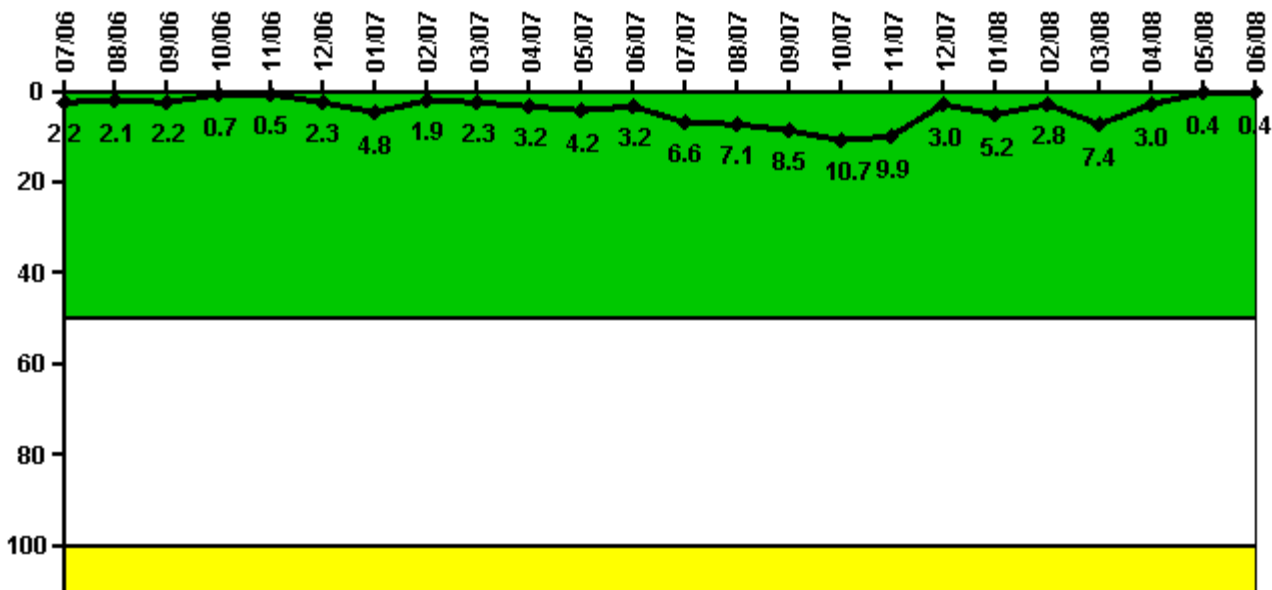
Thresholds: White > 50.0 Yellow > 100.0

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	0.000498	0.000506	0.000815	0.000504	0.000298	0.000386	0.000341	0.000394	0.000367	0.000365	0.000428	0.000411
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0.1	0.1	0.1	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum activity	0.000437	0.000407	0.000355	0.000351	0.000345	0.000397	0.000388	0.000338	0.000415	0.000372	0.000232	0.000330
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



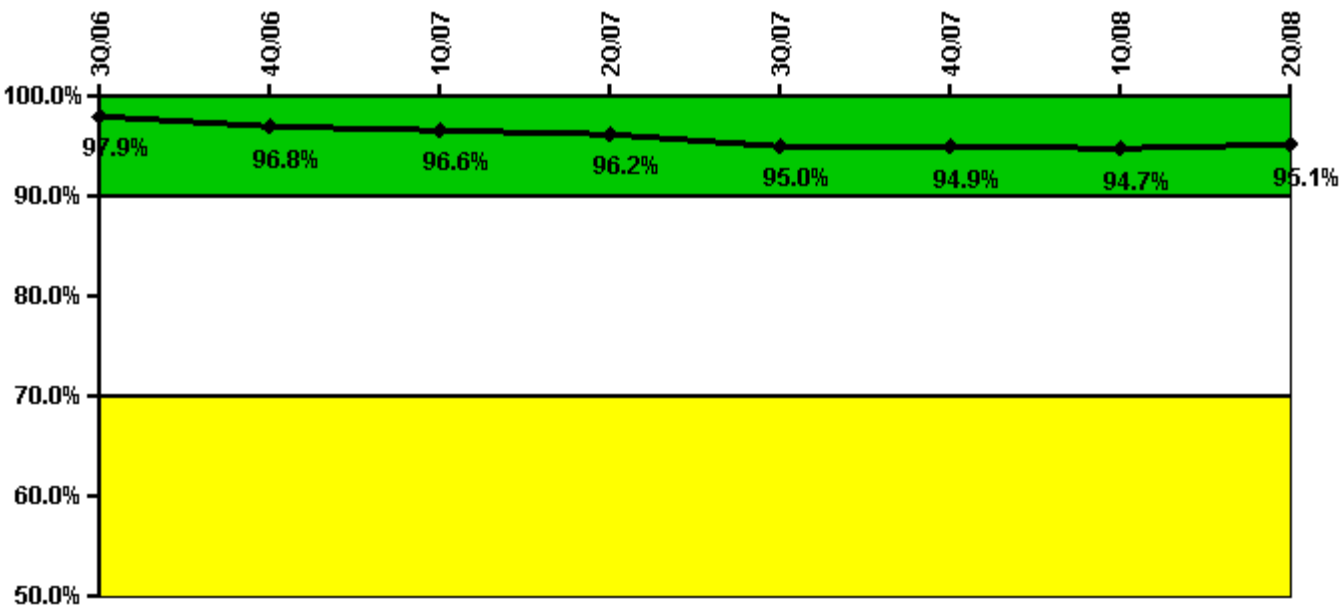
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum leakage	0.220	0.210	0.220	0.070	0.050	0.230	0.480	0.190	0.230	0.320	0.420	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	2.2	2.1	2.2	0.7	0.5	2.3	4.8	1.9	2.3	3.2	4.2	3.2
Reactor Coolant System Leakage	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum leakage	0.660	0.710	0.850	1.070	0.990	0.300	0.520	0.280	0.740	0.300	0.040	0.040
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	6.6	7.1	8.5	10.7	9.9	3.0	5.2	2.8	7.4	3.0	0.4	0.4

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

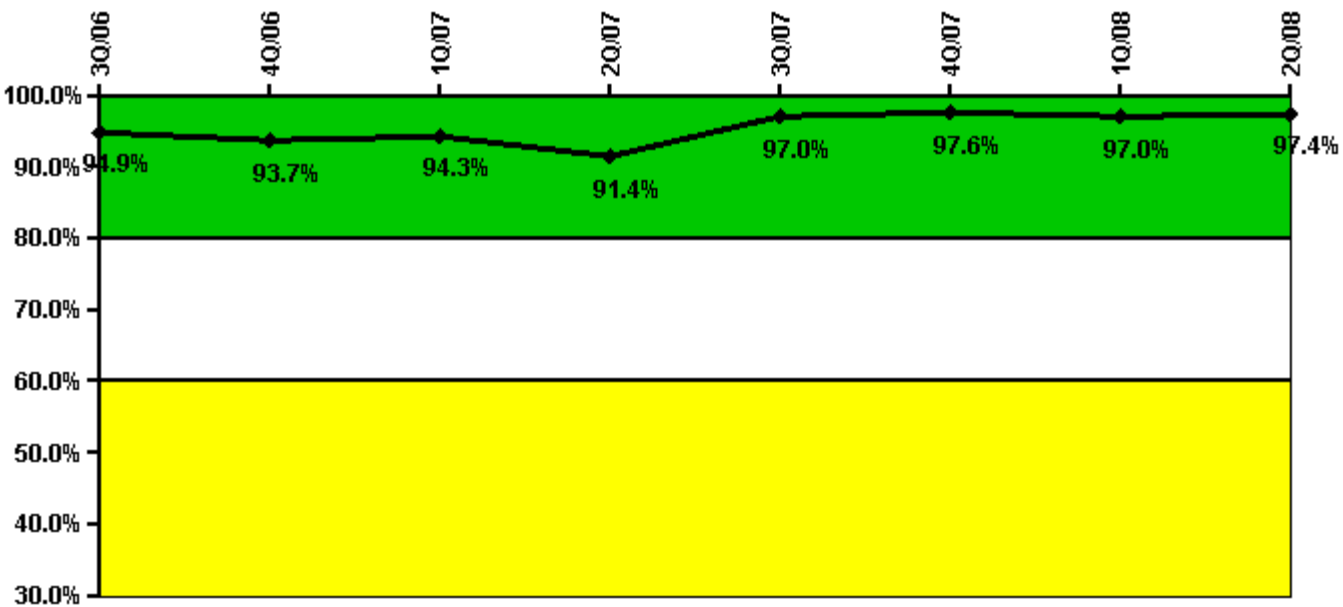
Notes

Drill/Exercise Performance	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful opportunities	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



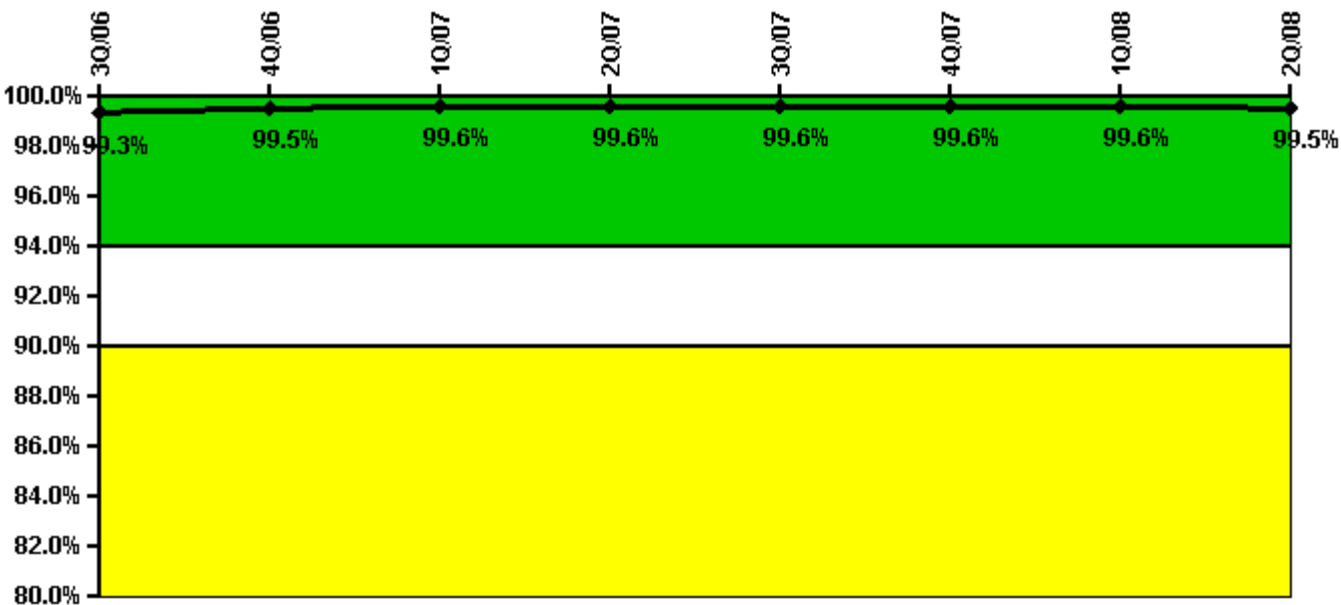
Thresholds: White < 80.0% Yellow < 60.0%

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



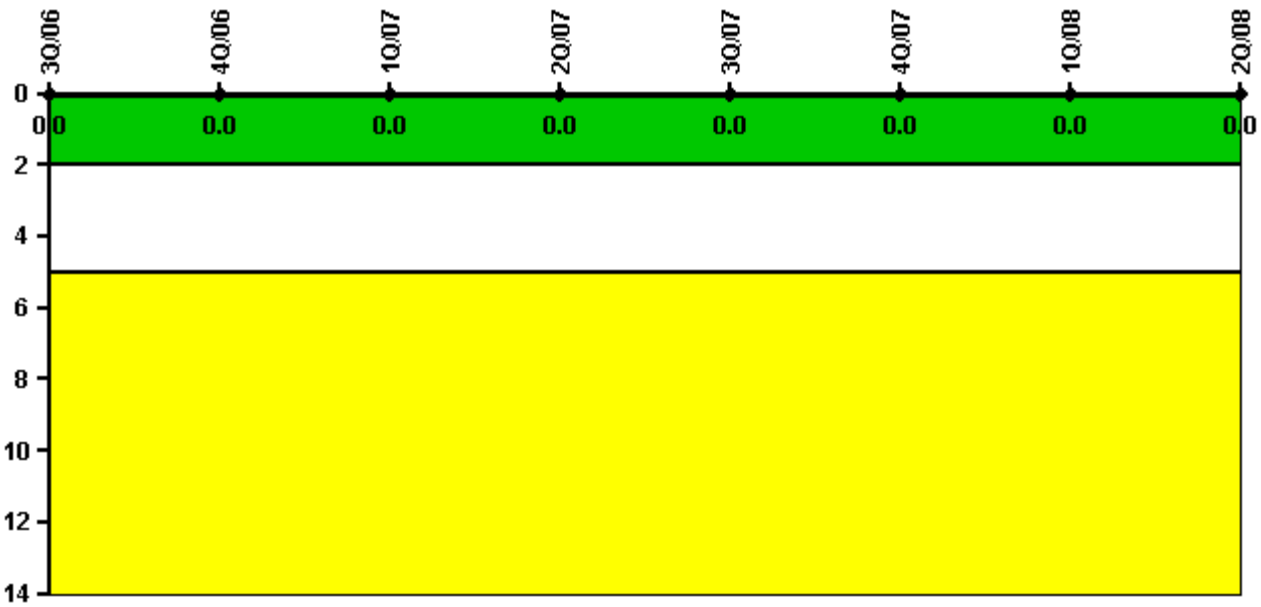
Thresholds: White < 94.0% Yellow < 90.0%

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



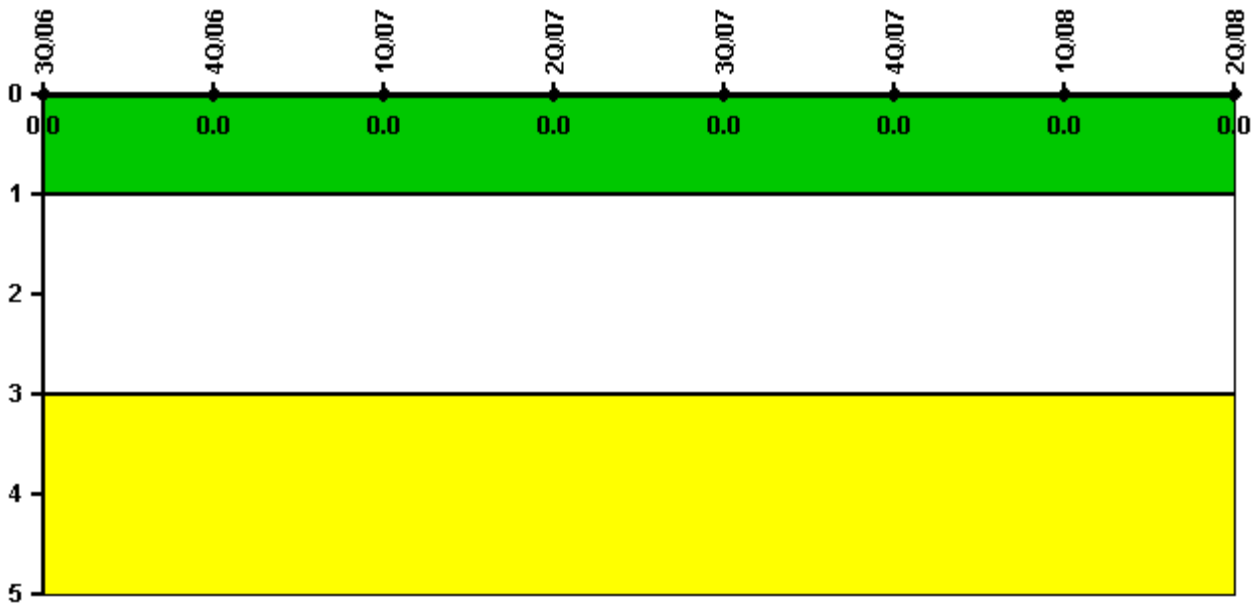
Thresholds: White > 2.0 Yellow > 5.0

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

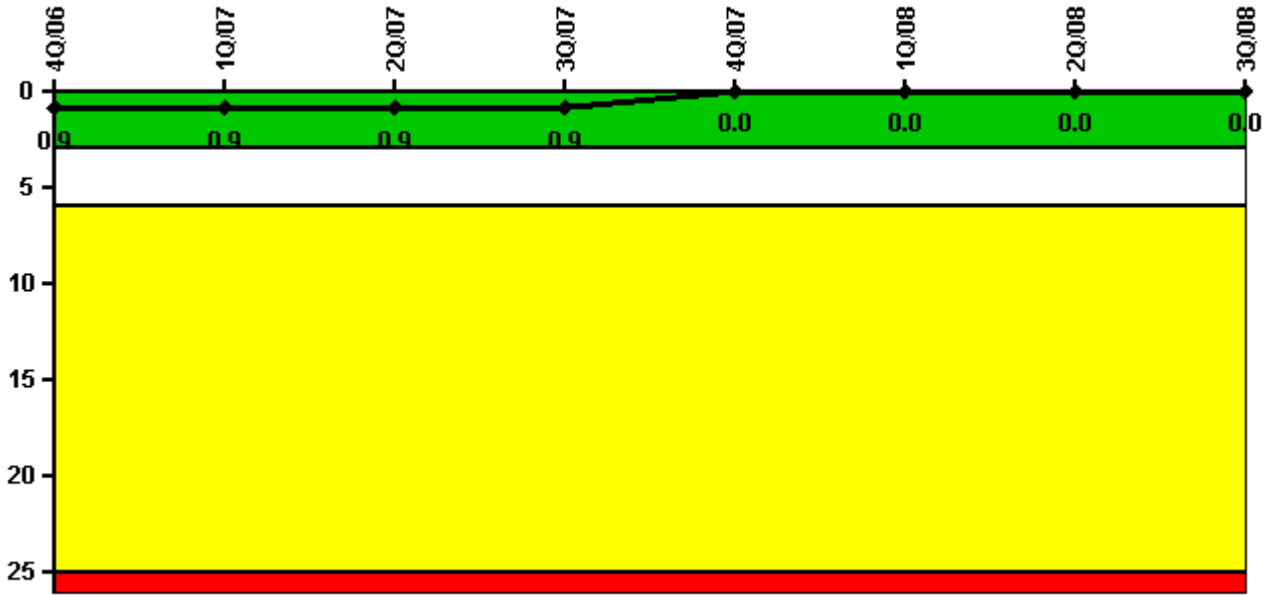
[Physical Protection](#) information not publicly available.

Surry 2

3Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



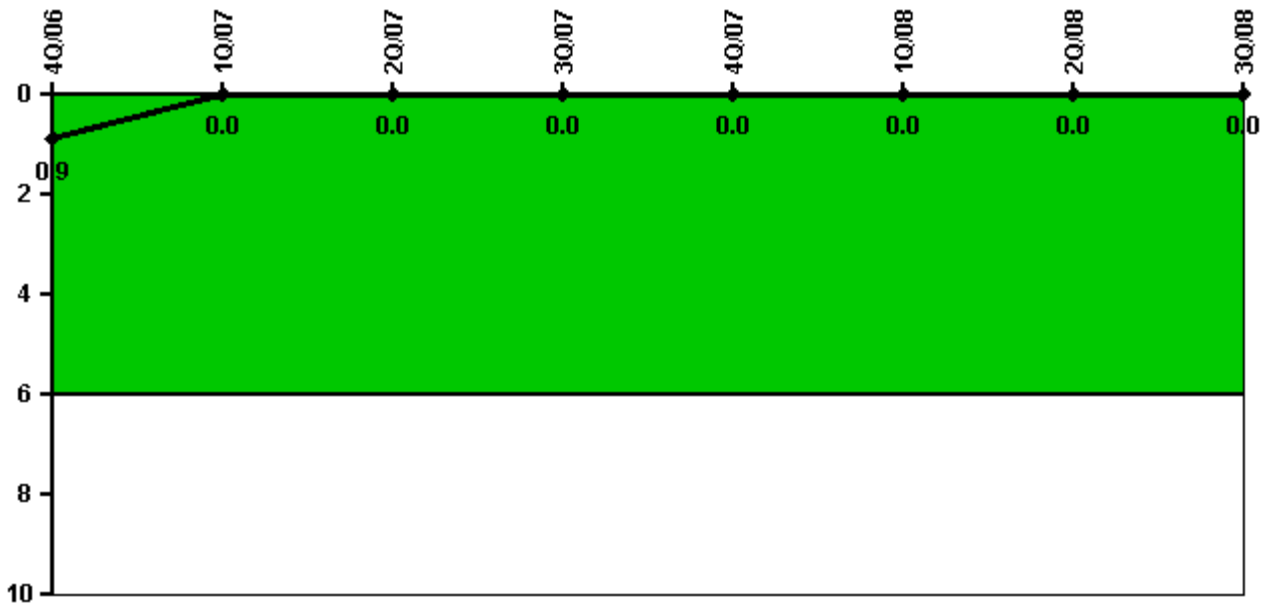
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	1170.7	2159.0	2184.0	2208.0	2209.0	2183.0	1622.6	2208.0
Indicator value	0.9	0.9	0.9	0.9	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



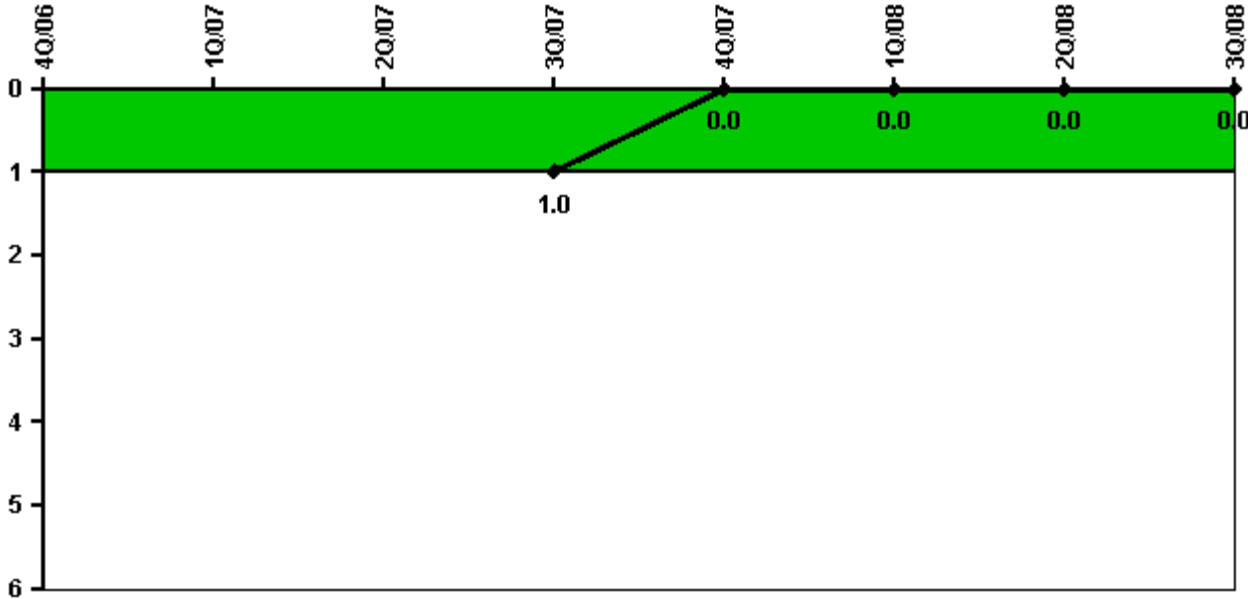
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1170.7	2159.0	2184.0	2208.0	2209.0	2183.0	1622.6	2208.0
Indicator value	0.9	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



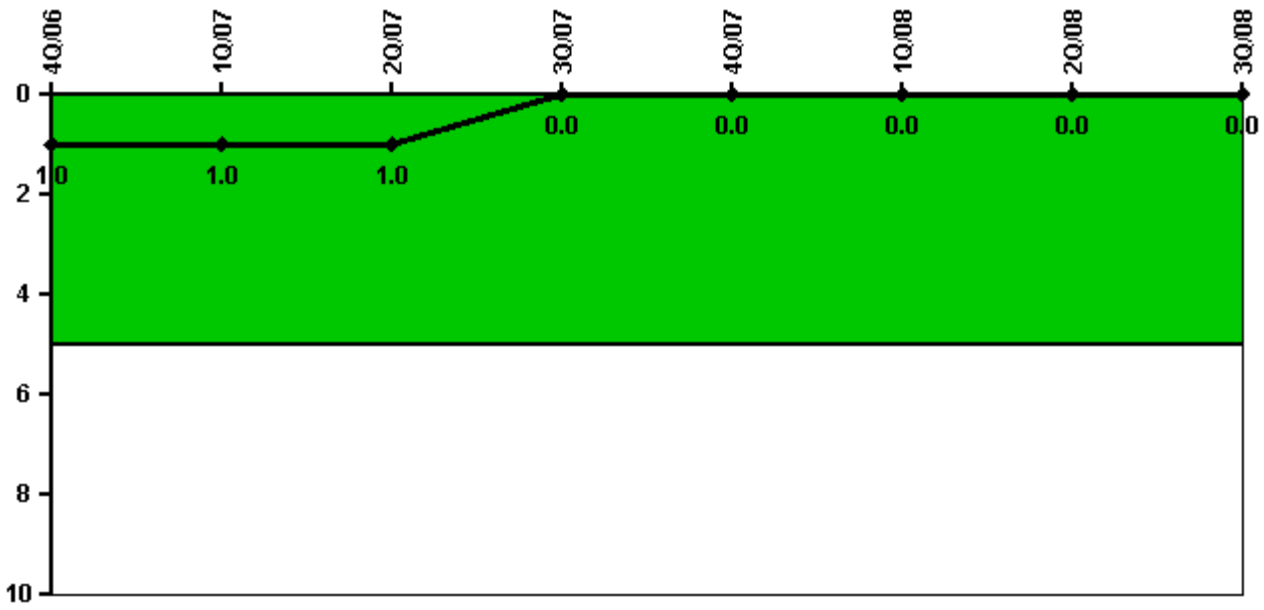
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



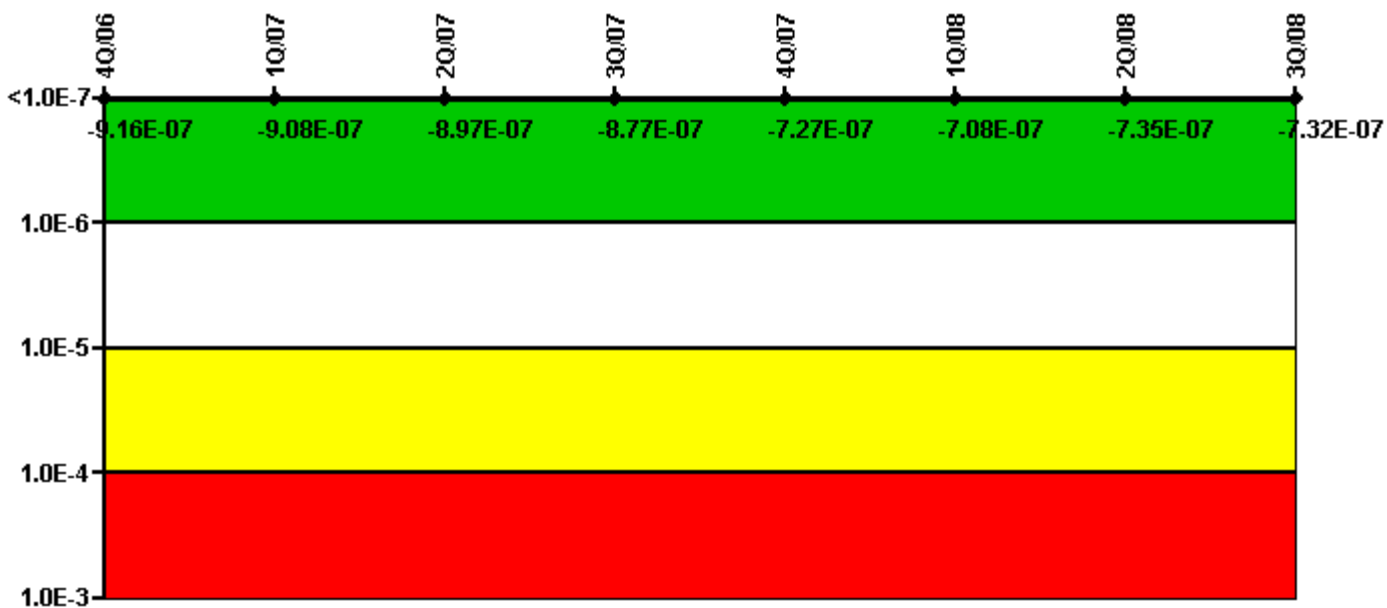
Thresholds: White > 5.0

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	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/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (Δ CDF)	7.40E-08	7.20E-08	7.30E-08	7.30E-08	3.30E-08	6.20E-08	4.50E-08	4.80E-08
URI (Δ CDF)	-9.90E-07	-9.80E-07	-9.70E-07	-9.50E-07	-7.60E-07	-7.70E-07	-7.80E-07	-7.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.16E-07	-9.08E-07	-8.97E-07	-8.77E-07	-7.27E-07	-7.08E-07	-7.35E-07	-7.32E-07

Licensee Comments:

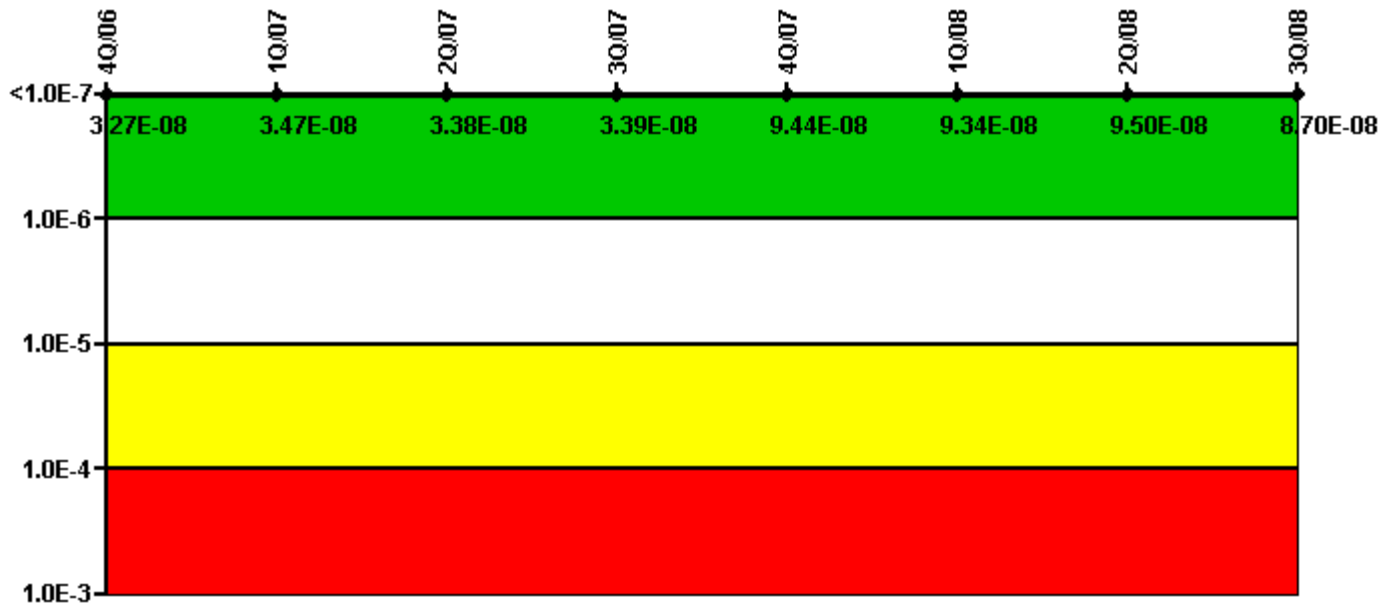
3Q/08: Changed PRA Parameter(s). A PRA parameter for 1st quarter 2008 was corrected with no change in color.

2Q/08: Changed PRA Parameter(s).

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

4Q/07: Changed PRA Parameter(s).

Mitigating Systems Performance Index, High Pressure Injection System



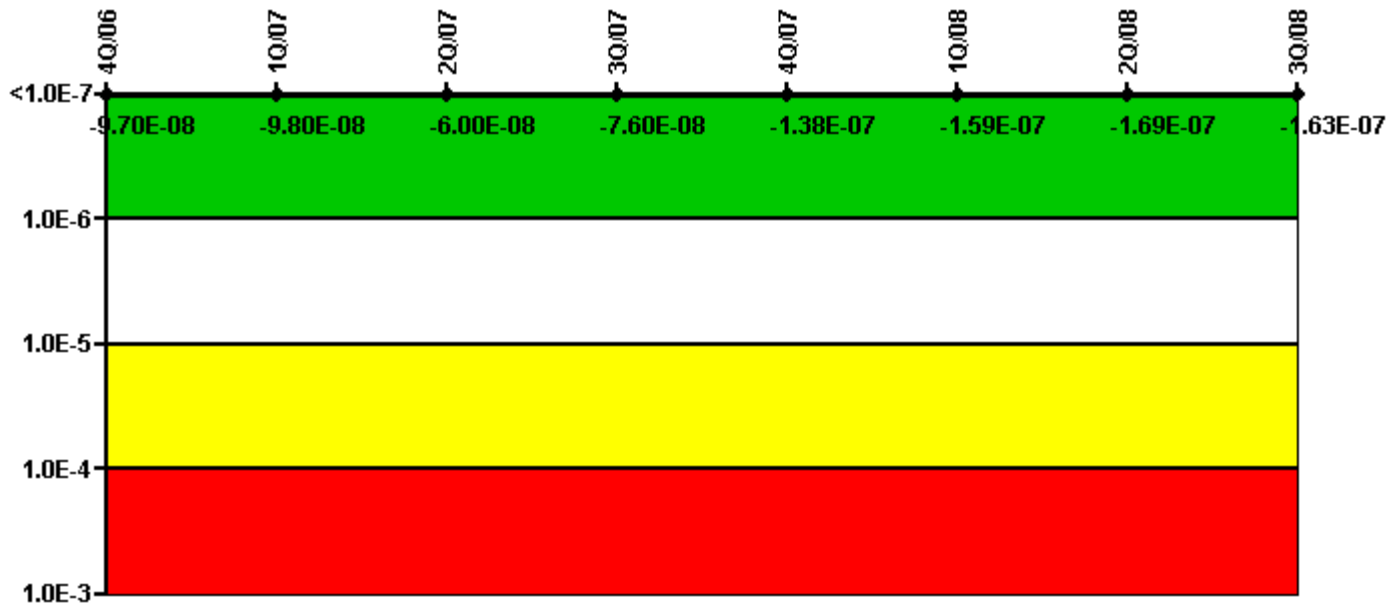
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (Δ CDF)	6.70E-09	7.70E-09	7.80E-09	7.90E-09	7.40E-09	7.40E-09	1.30E-08	1.30E-08
URI (Δ CDF)	2.60E-08	2.70E-08	2.60E-08	2.60E-08	8.70E-08	8.60E-08	8.20E-08	7.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.27E-08	3.47E-08	3.38E-08	3.39E-08	9.44E-08	9.34E-08	9.50E-08	8.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



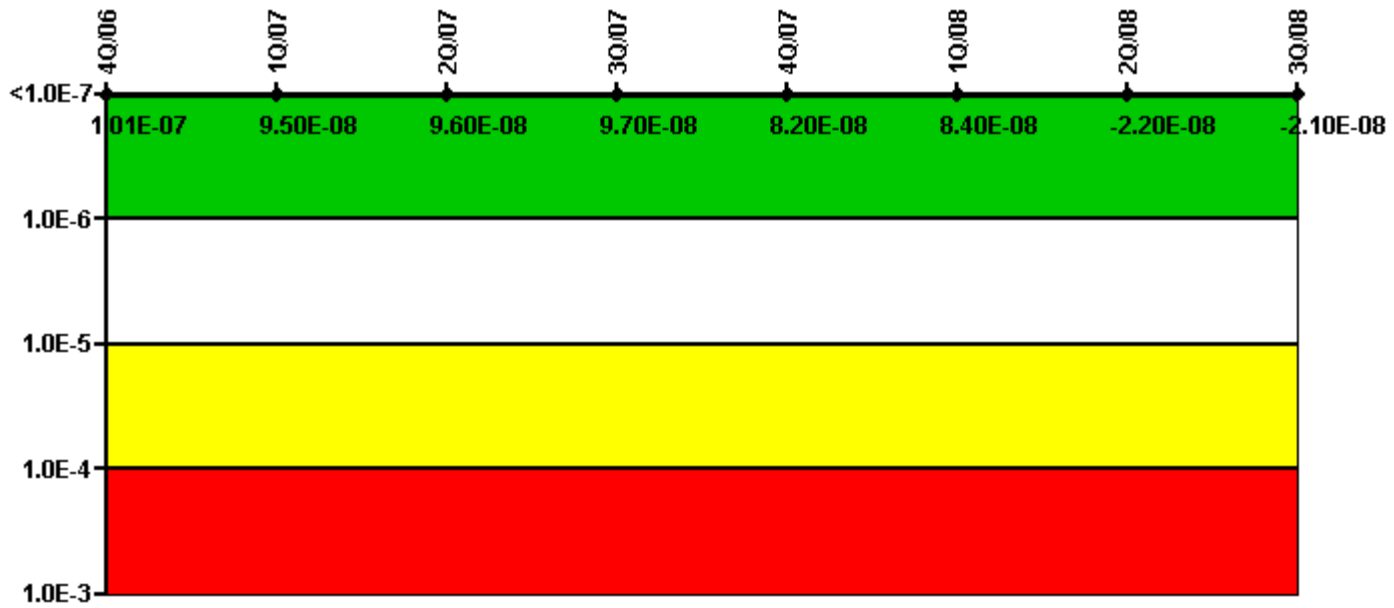
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (Δ CDF)	2.30E-08	2.20E-08	5.00E-08	3.40E-08	-2.80E-08	-4.90E-08	-4.90E-08	-4.30E-08
URI (Δ CDF)	-1.20E-07	-1.20E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.20E-07	-1.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.70E-08	-9.80E-08	-6.00E-08	-7.60E-08	-1.38E-07	-1.59E-07	-1.69E-07	-1.63E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



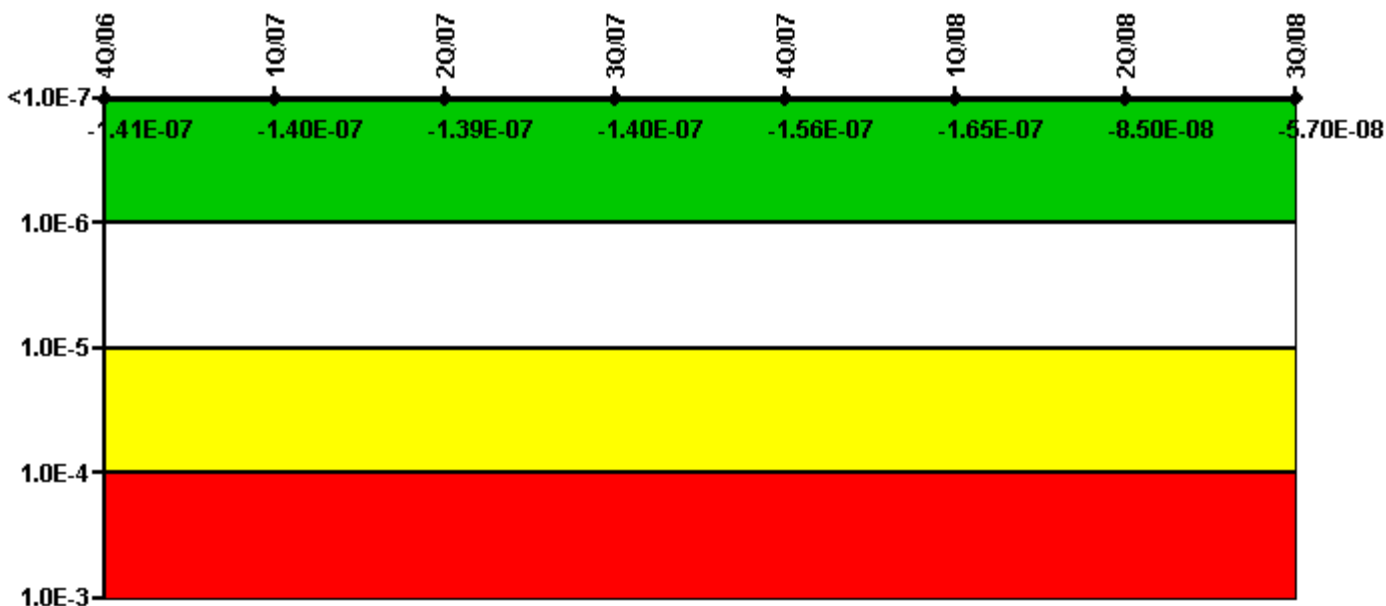
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (Δ CDF)	1.70E-08	1.10E-08	1.10E-08	1.10E-08	-5.00E-09	-5.00E-09	-5.00E-09	-5.00E-09
URI (Δ CDF)	8.40E-08	8.40E-08	8.50E-08	8.60E-08	8.70E-08	8.90E-08	-1.70E-08	-1.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.01E-07	9.50E-08	9.60E-08	9.70E-08	8.20E-08	8.40E-08	-2.20E-08	-2.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



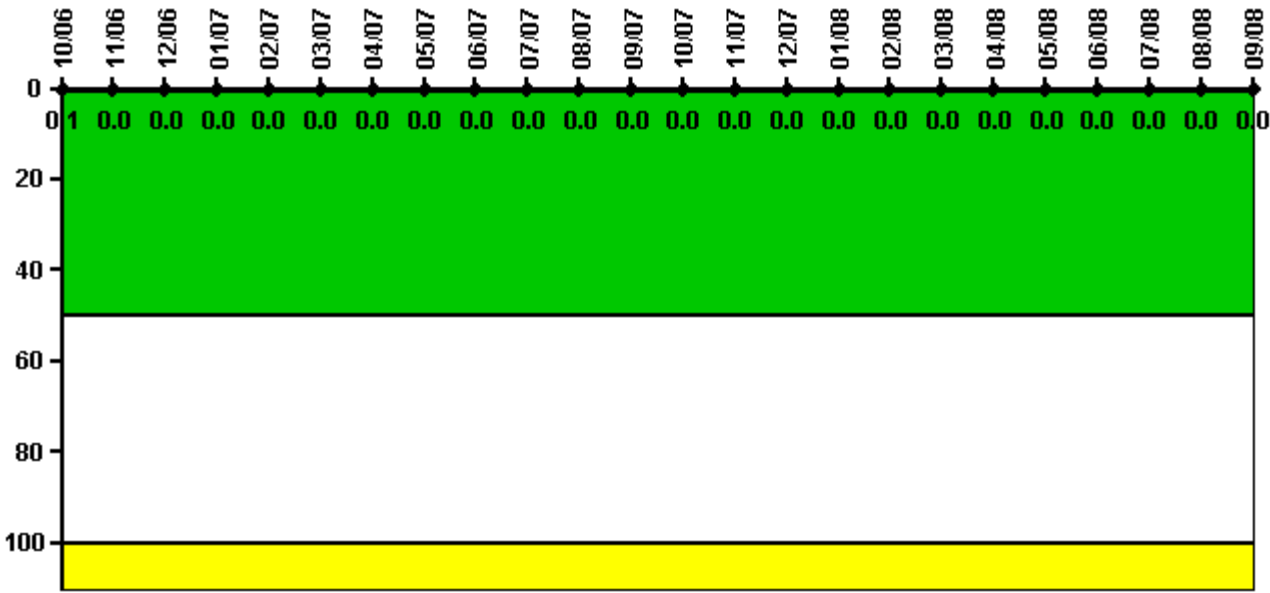
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (Δ CDF)	-1.10E-09	1.30E-10	8.10E-10	1.90E-10	-5.90E-09	-1.50E-08	6.50E-08	9.30E-08
URI (Δ CDF)	-1.40E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.41E-07	-1.40E-07	-1.39E-07	-1.40E-07	-1.56E-07	-1.65E-07	-8.50E-08	-5.70E-08

Licensee Comments: none

Reactor Coolant System Activity



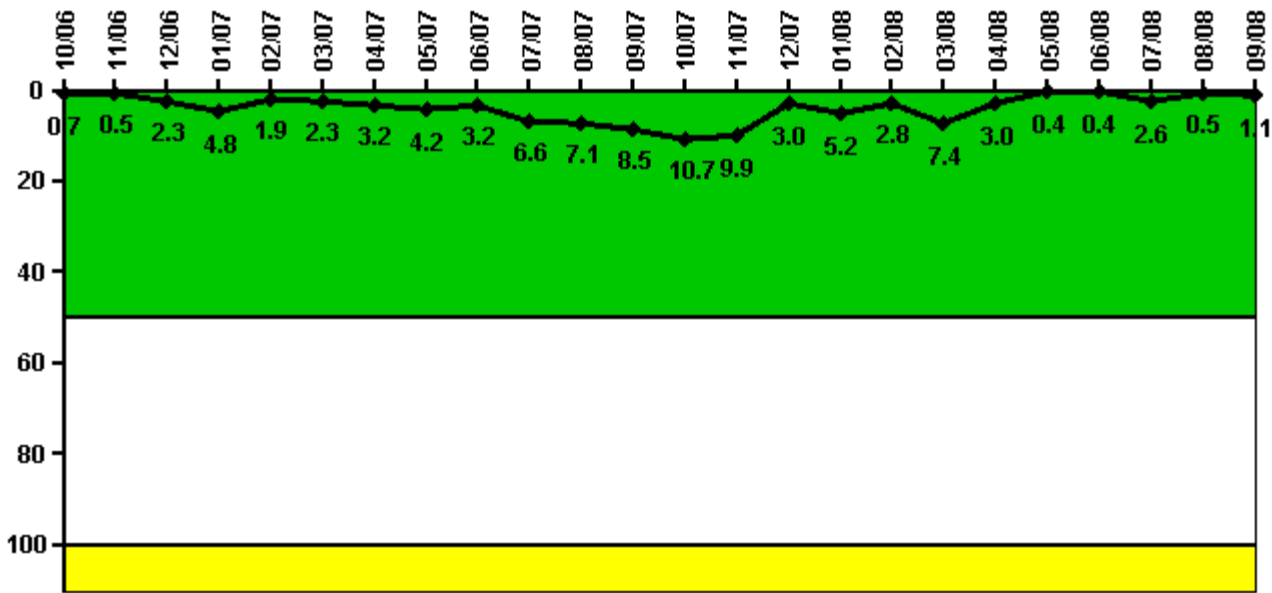
Thresholds: White > 50.0 Yellow > 100.0

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	0.000504	0.000298	0.000386	0.000341	0.000394	0.000367	0.000365	0.000428	0.000411	0.000437	0.000407	0.000355
Technical specification limit	1.0	1.0	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	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum activity	0.000351	0.000345	0.000397	0.000388	0.000338	0.000415	0.000372	0.000232	0.000330	0.000199	0.000198	0.000168
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



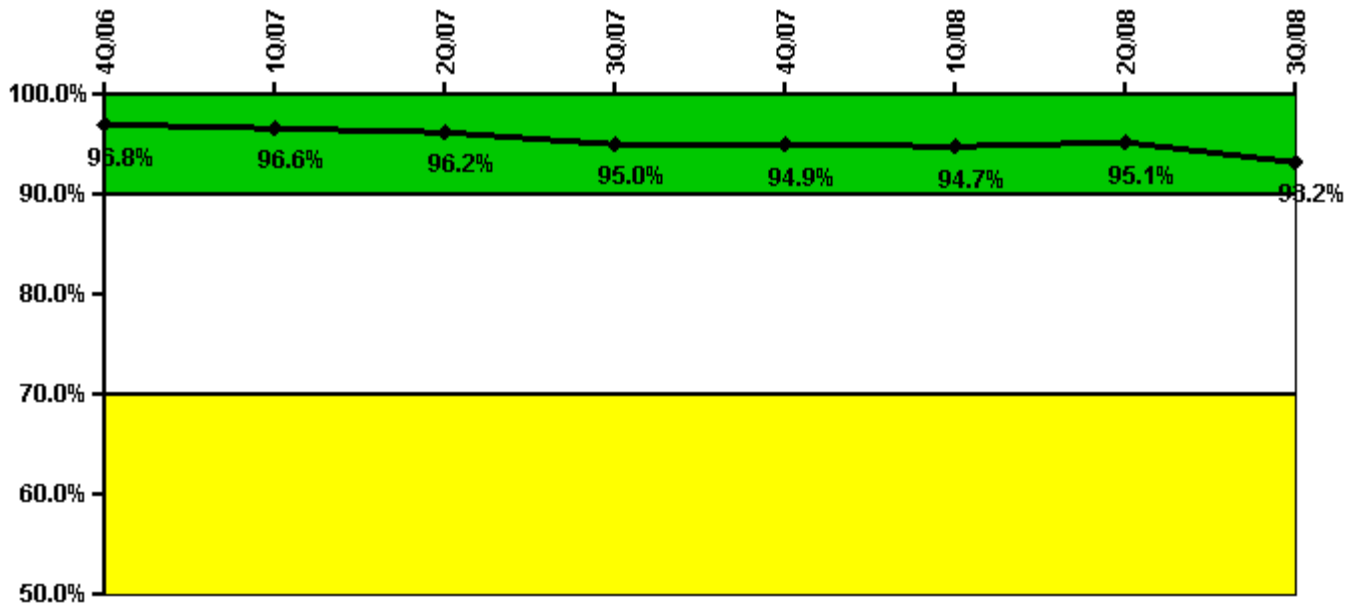
Thresholds: White > 50.0 Yellow > 100.0

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	0.070	0.050	0.230	0.480	0.190	0.230	0.320	0.420	0.320	0.660	0.710	0.850
Technical specification limit	10.0	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	0.5	2.3	4.8	1.9	2.3	3.2	4.2	3.2	6.6	7.1	8.5
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	1.070	0.990	0.300	0.520	0.280	0.740	0.300	0.040	0.040	0.260	0.050	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	10.7	9.9	3.0	5.2	2.8	7.4	3.0	0.4	0.4	2.6	0.5	1.1

Licensee Comments: none

Drill/Exercise Performance



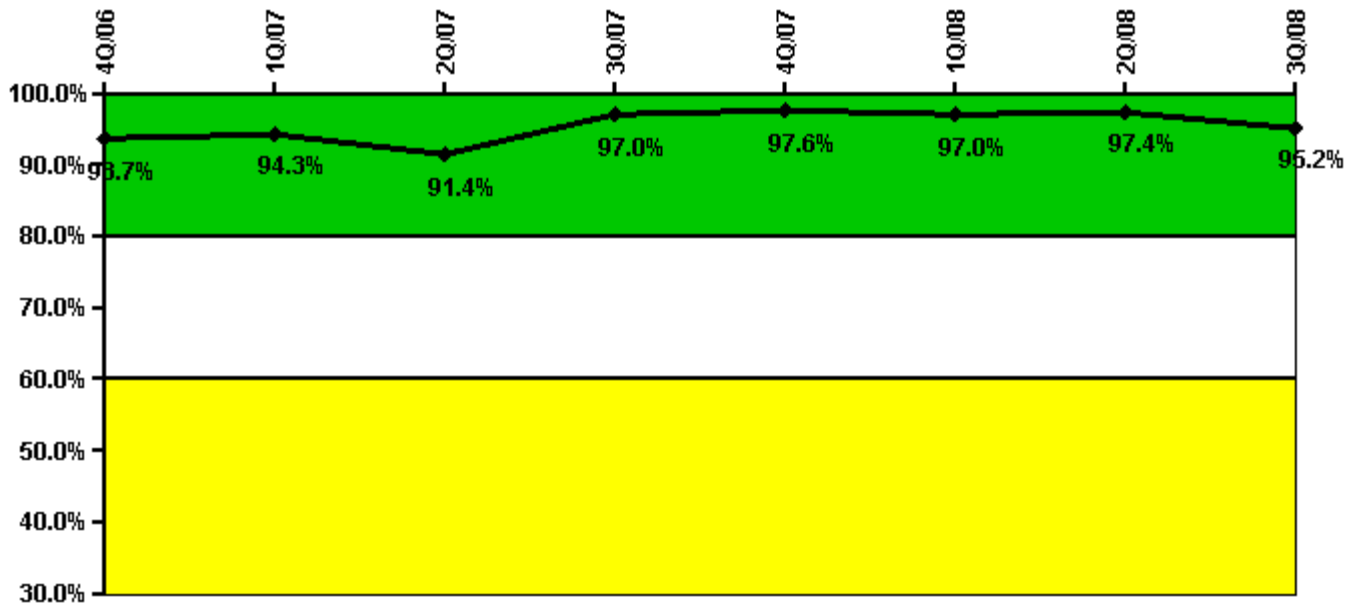
Thresholds: White < 90.0% Yellow < 70.0%

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



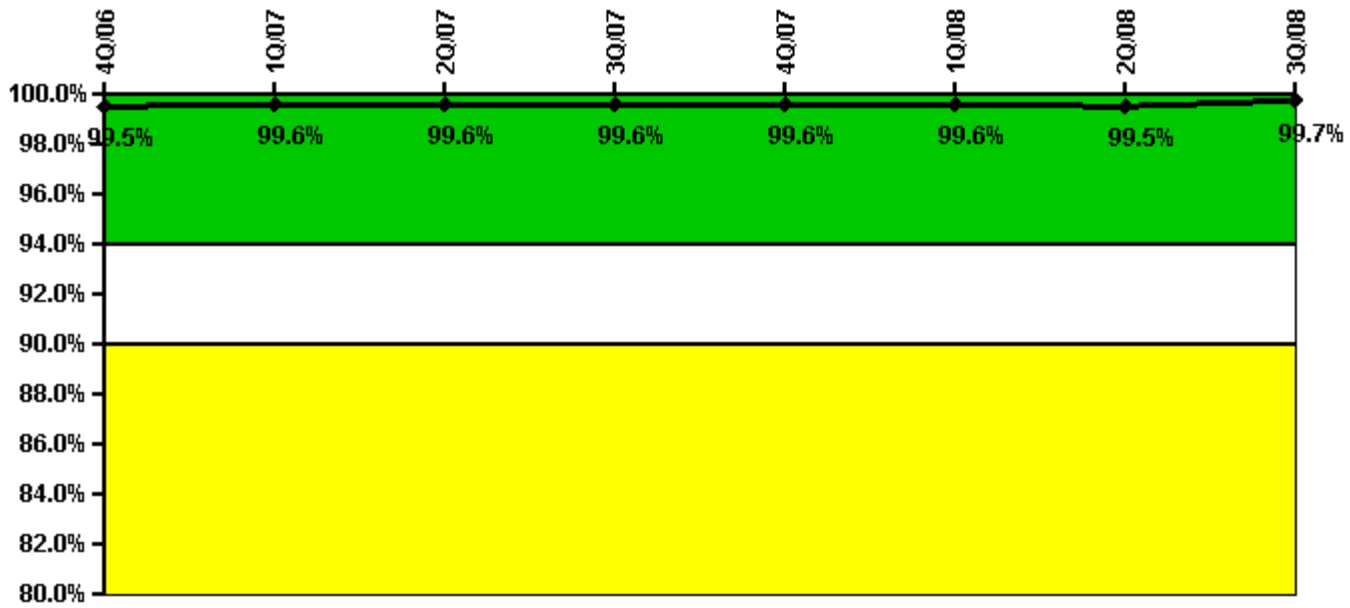
Thresholds: White < 80.0% Yellow < 60.0%

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



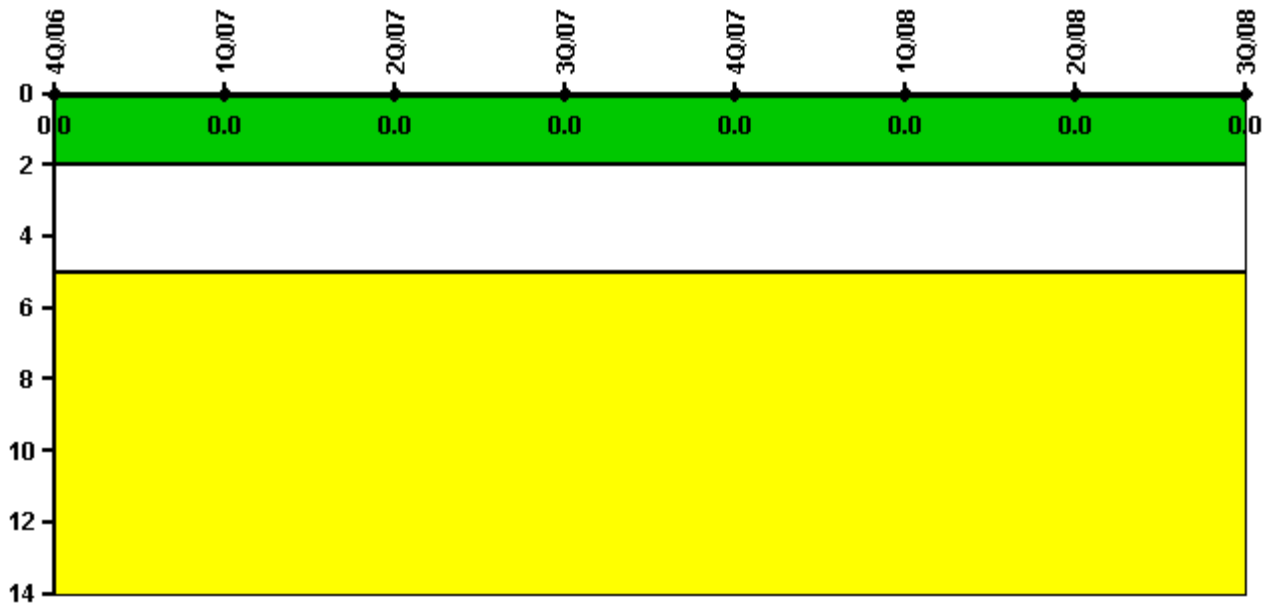
Thresholds: White < 94.0% Yellow < 90.0%

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



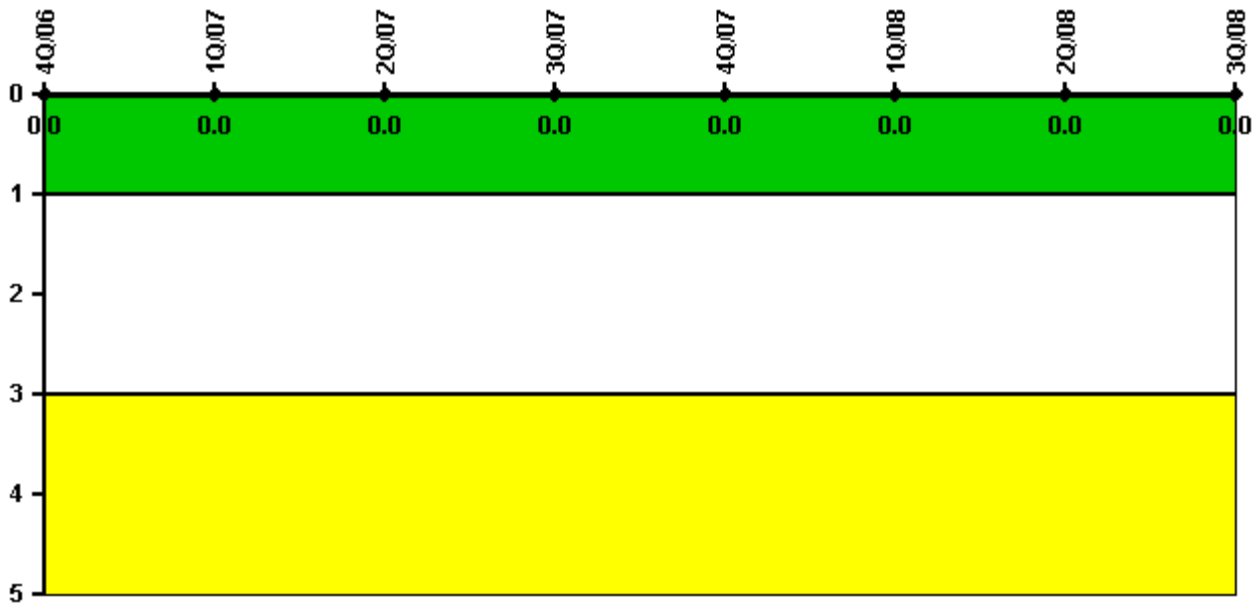
Thresholds: White > 2.0 Yellow > 5.0

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

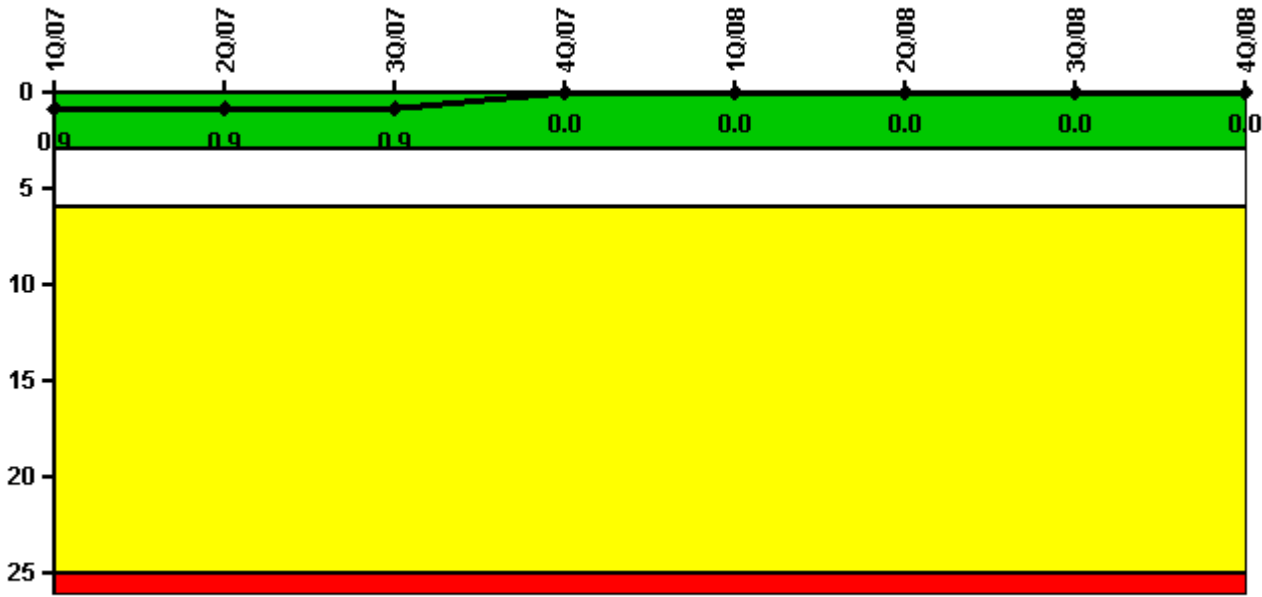
[Security](#) information not publicly available.

Surry 2

4Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



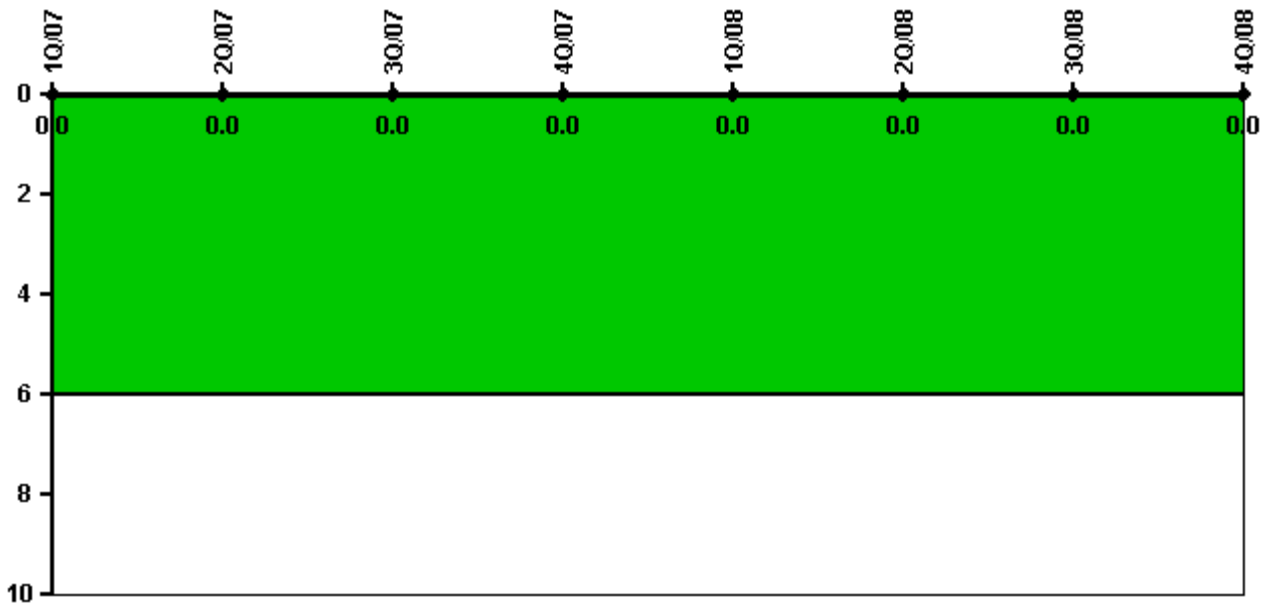
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	2209.0	2183.0	1622.6	2208.0	2209.0
Indicator value	0.9	0.9	0.9	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



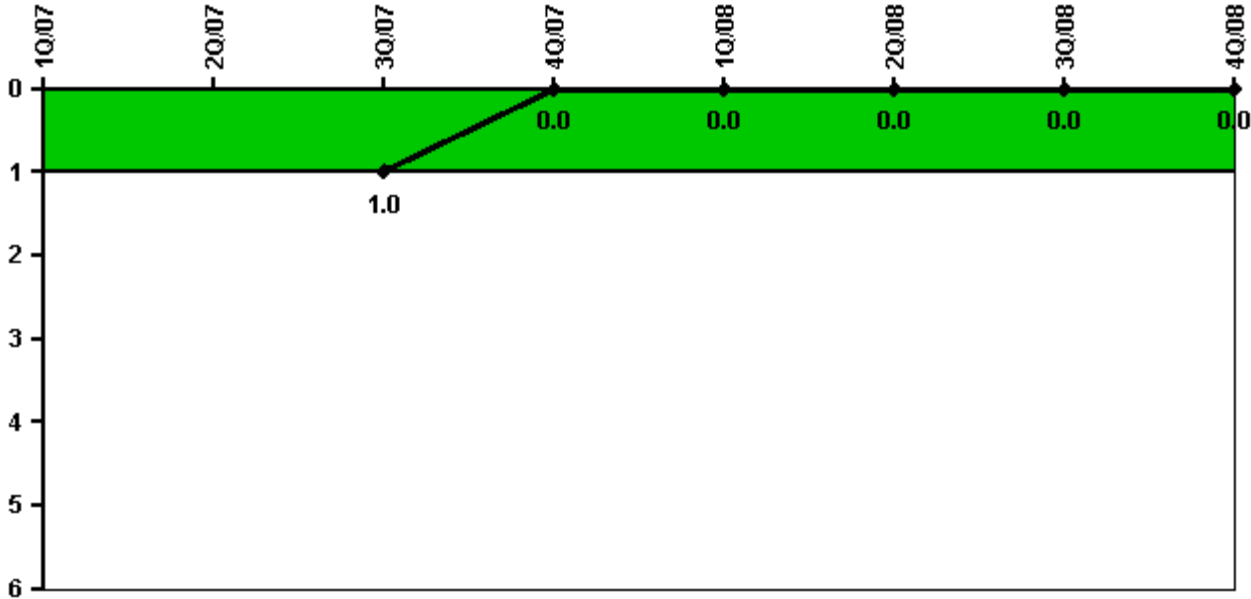
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	2209.0	2183.0	1622.6	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



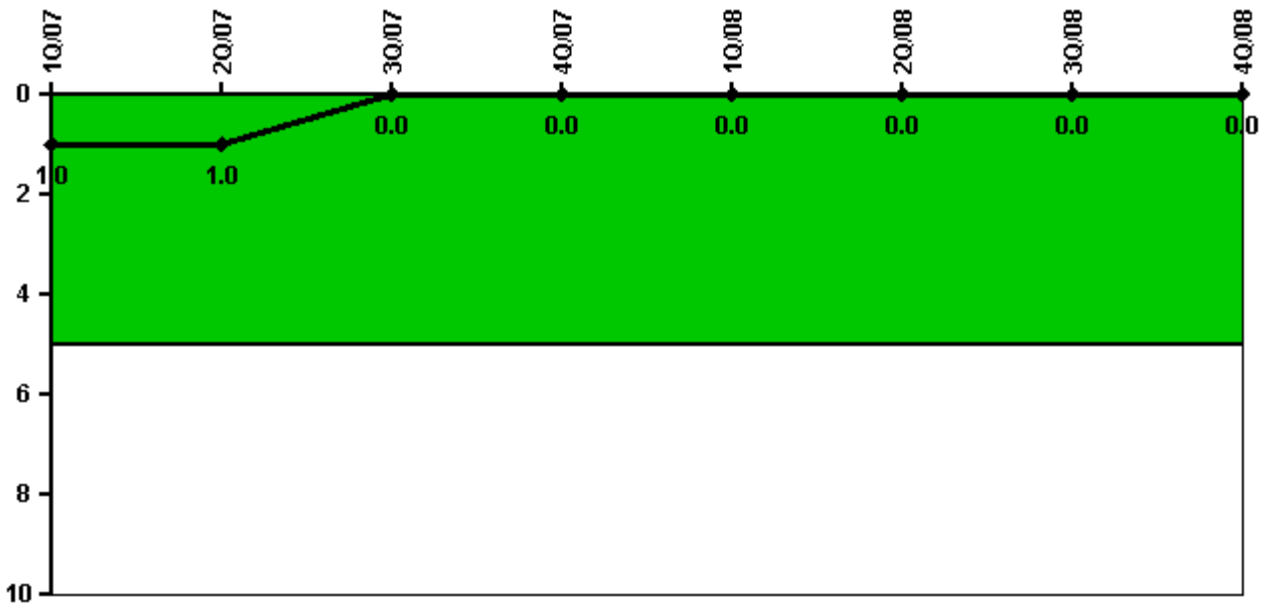
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



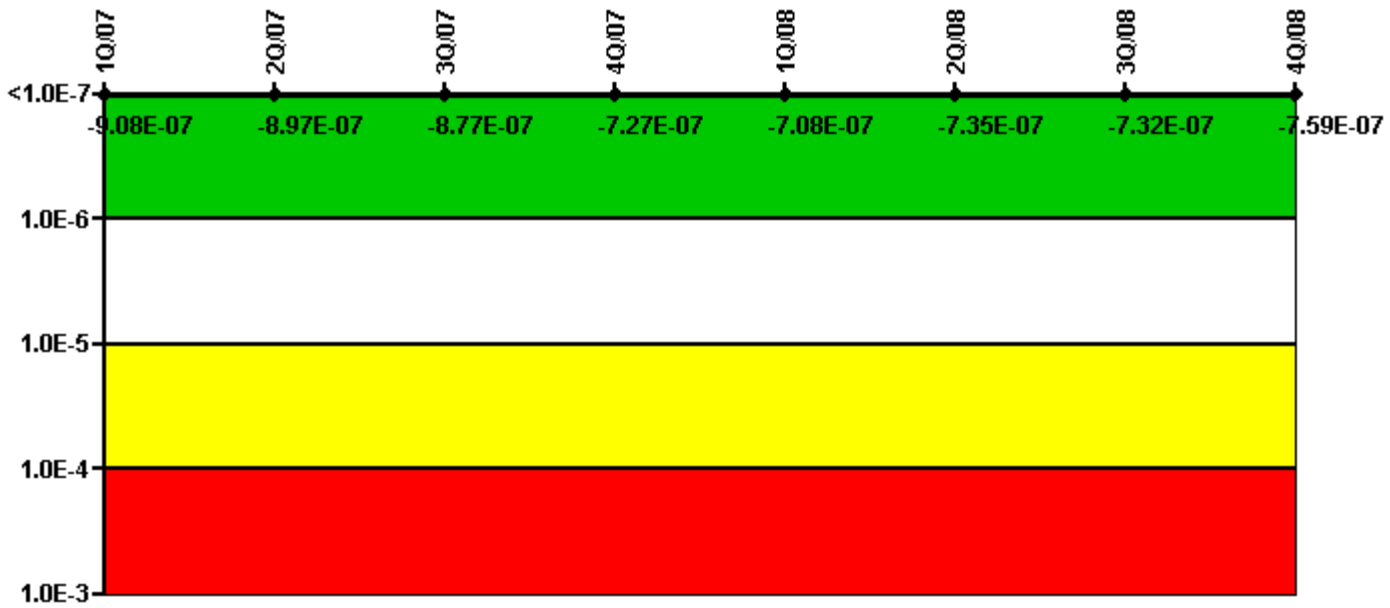
Thresholds: White > 5.0

Notes

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



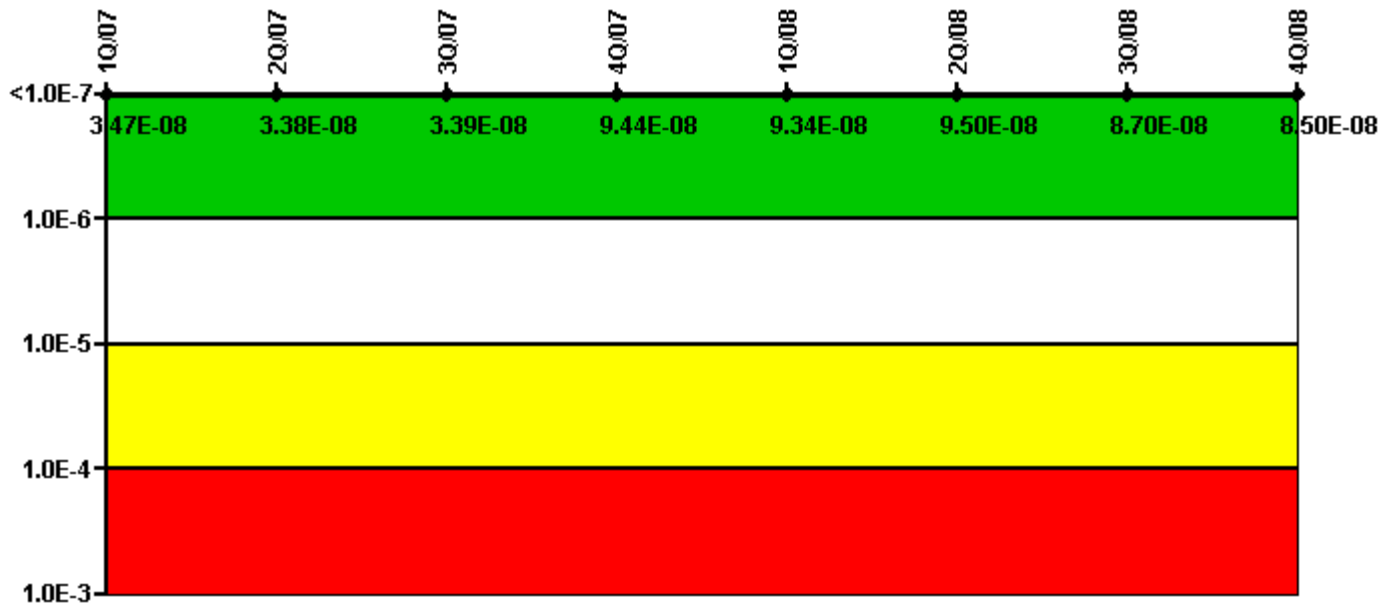
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (Δ CDF)	7.20E-08	7.30E-08	7.30E-08	3.30E-08	6.20E-08	4.50E-08	4.80E-08	3.10E-08
URI (Δ CDF)	-9.80E-07	-9.70E-07	-9.50E-07	-7.60E-07	-7.70E-07	-7.80E-07	-7.80E-07	-7.90E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.08E-07	-8.97E-07	-8.77E-07	-7.27E-07	-7.08E-07	-7.35E-07	-7.32E-07	-7.59E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



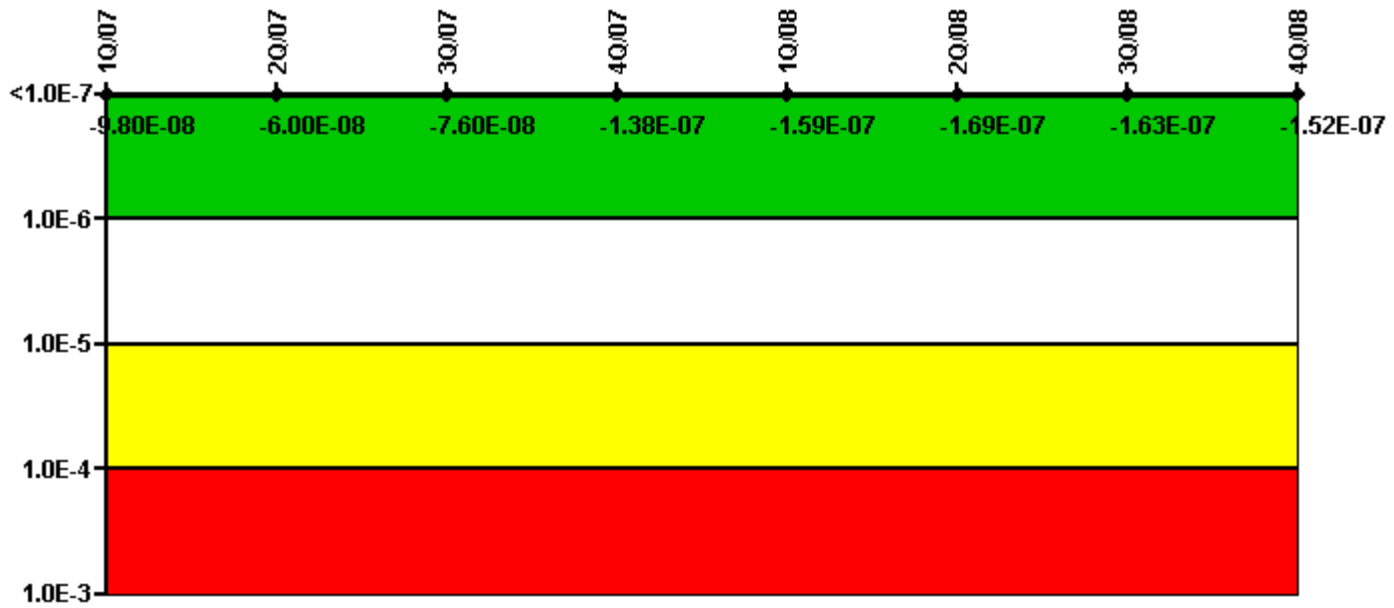
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (Δ CDF)	7.70E-09	7.80E-09	7.90E-09	7.40E-09	7.40E-09	1.30E-08	1.30E-08	1.20E-08
URI (Δ CDF)	2.70E-08	2.60E-08	2.60E-08	8.70E-08	8.60E-08	8.20E-08	7.40E-08	7.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.47E-08	3.38E-08	3.39E-08	9.44E-08	9.34E-08	9.50E-08	8.70E-08	8.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



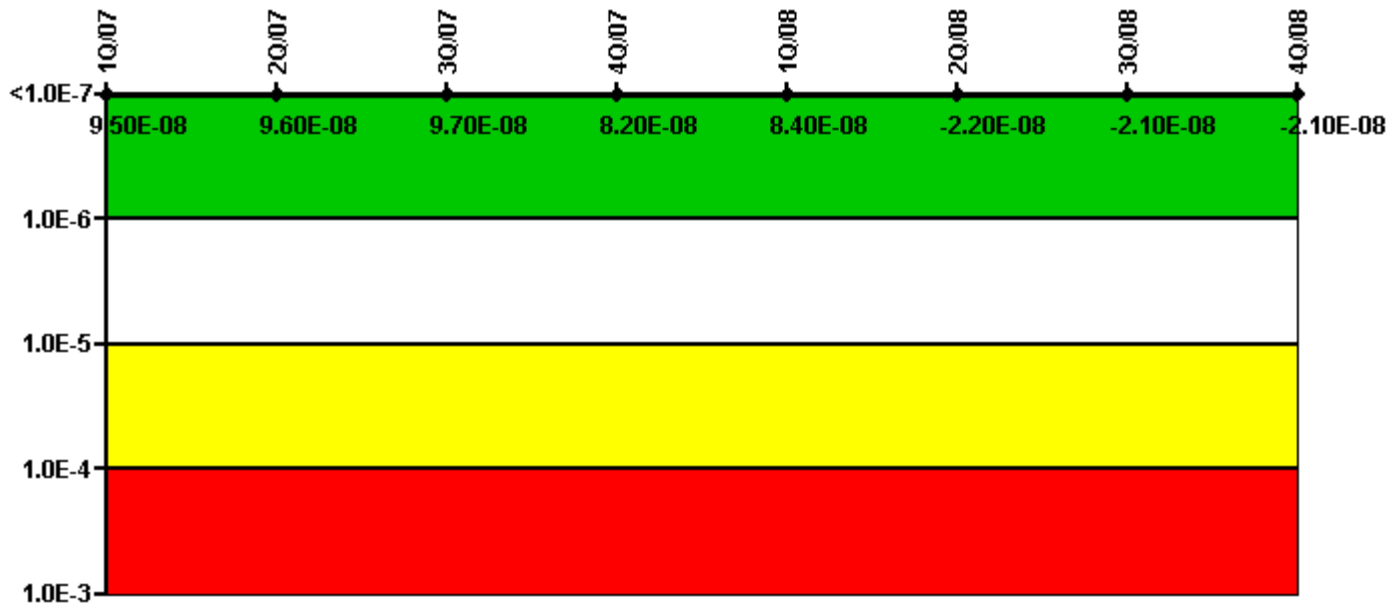
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (Δ CDF)	2.20E-08	5.00E-08	3.40E-08	-2.80E-08	-4.90E-08	-4.90E-08	-4.30E-08	-3.20E-08
URI (Δ CDF)	-1.20E-07	-1.10E-07	-1.10E-07	-1.10E-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	-6.00E-08	-7.60E-08	-1.38E-07	-1.59E-07	-1.69E-07	-1.63E-07	-1.52E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



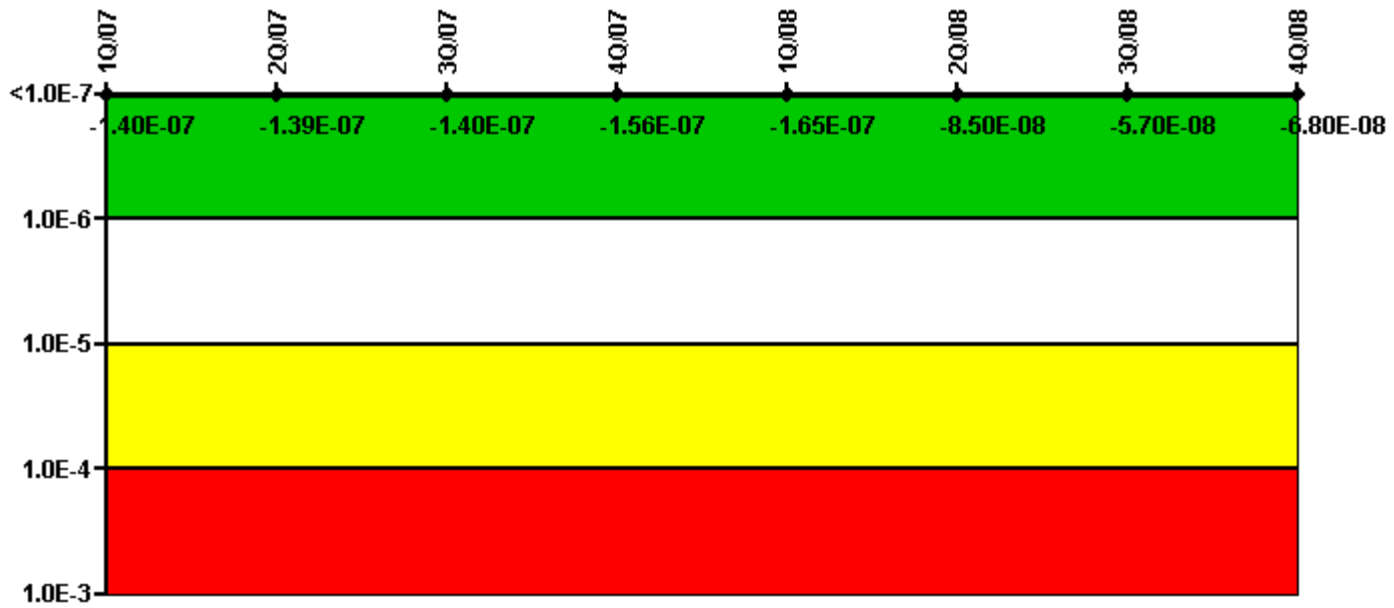
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (Δ CDF)	1.10E-08	1.10E-08	1.10E-08	-5.00E-09	-5.00E-09	-5.00E-09	-5.00E-09	-5.00E-09
URI (Δ CDF)	8.40E-08	8.50E-08	8.60E-08	8.70E-08	8.90E-08	-1.70E-08	-1.60E-08	-1.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.50E-08	9.60E-08	9.70E-08	8.20E-08	8.40E-08	-2.20E-08	-2.10E-08	-2.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



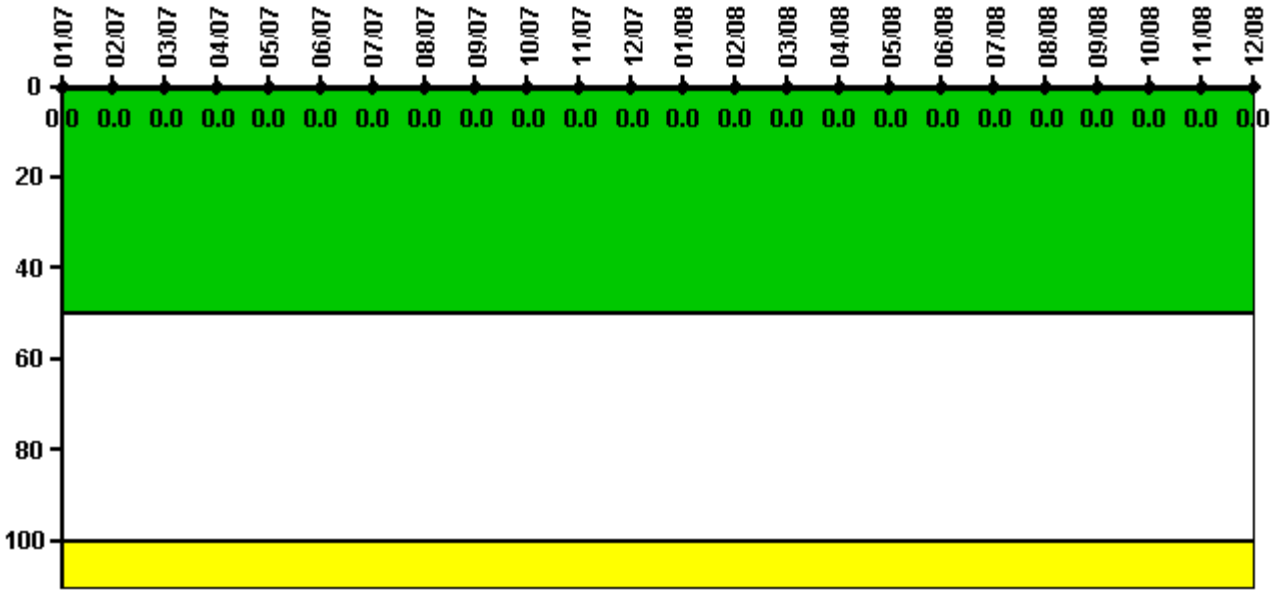
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (Δ CDF)	1.30E-10	8.10E-10	1.90E-10	-5.90E-09	-1.50E-08	6.50E-08	9.30E-08	8.20E-08
URI (Δ CDF)	-1.40E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-07	-1.39E-07	-1.40E-07	-1.56E-07	-1.65E-07	-8.50E-08	-5.70E-08	-6.80E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

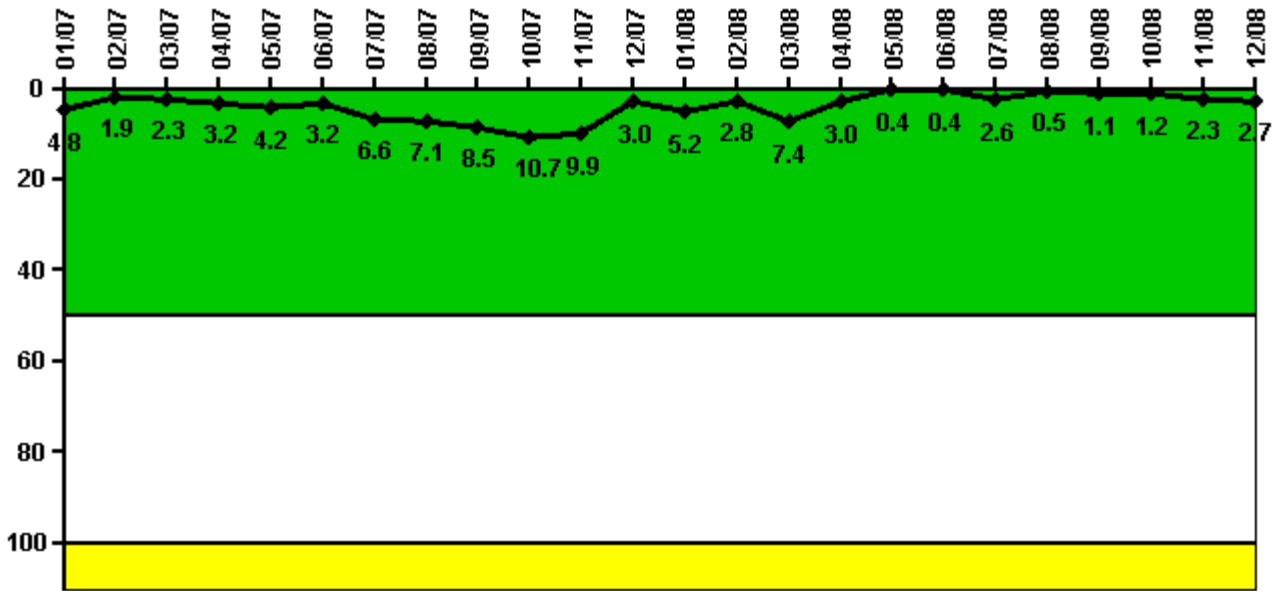
Notes

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	0.000341	0.000394	0.000367	0.000365	0.000428	0.000411	0.000437	0.000407	0.000355	0.000351	0.000345	0.000397
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum activity	0.000388	0.000338	0.000415	0.000372	0.000232	0.000330	0.000199	0.000198	0.000168	0.000192	0.000197	0.000226
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



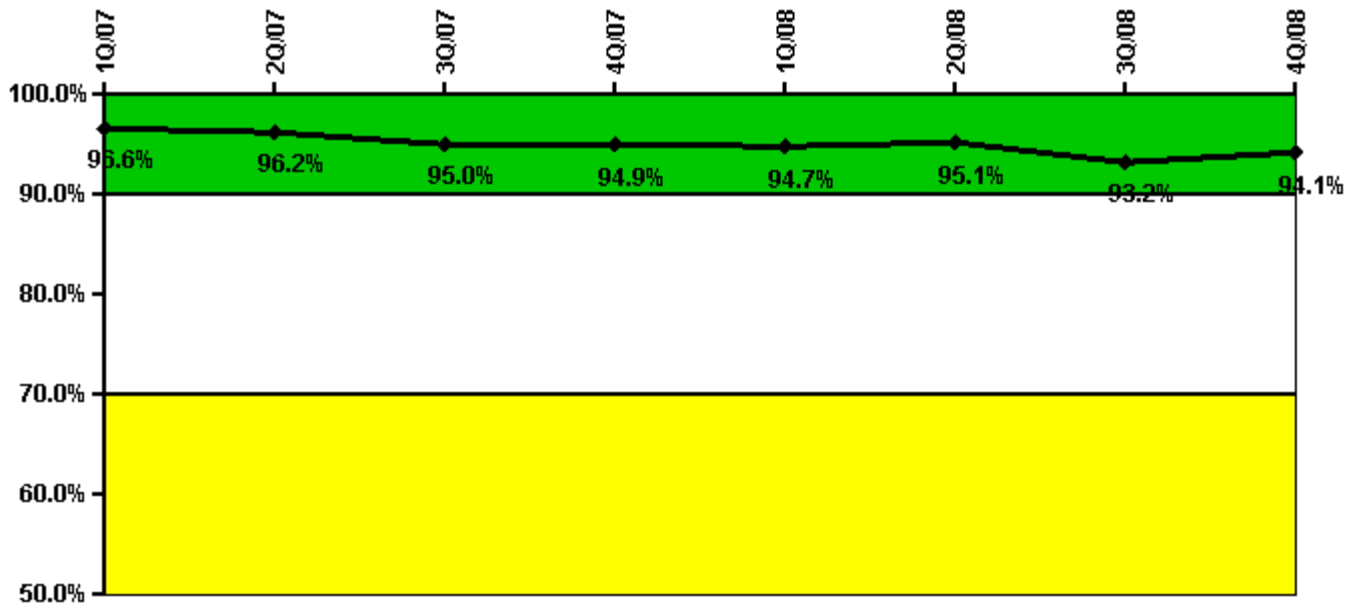
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum leakage	0.480	0.190	0.230	0.320	0.420	0.320	0.660	0.710	0.850	1.070	0.990	0.300
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	4.8	1.9	2.3	3.2	4.2	3.2	6.6	7.1	8.5	10.7	9.9	3.0
Reactor Coolant System Leakage	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum leakage	0.520	0.280	0.740	0.300	0.040	0.040	0.260	0.050	0.110	0.120	0.230	0.270
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	5.2	2.8	7.4	3.0	0.4	0.4	2.6	0.5	1.1	1.2	2.3	2.7

Licensee Comments: none

Drill/Exercise Performance



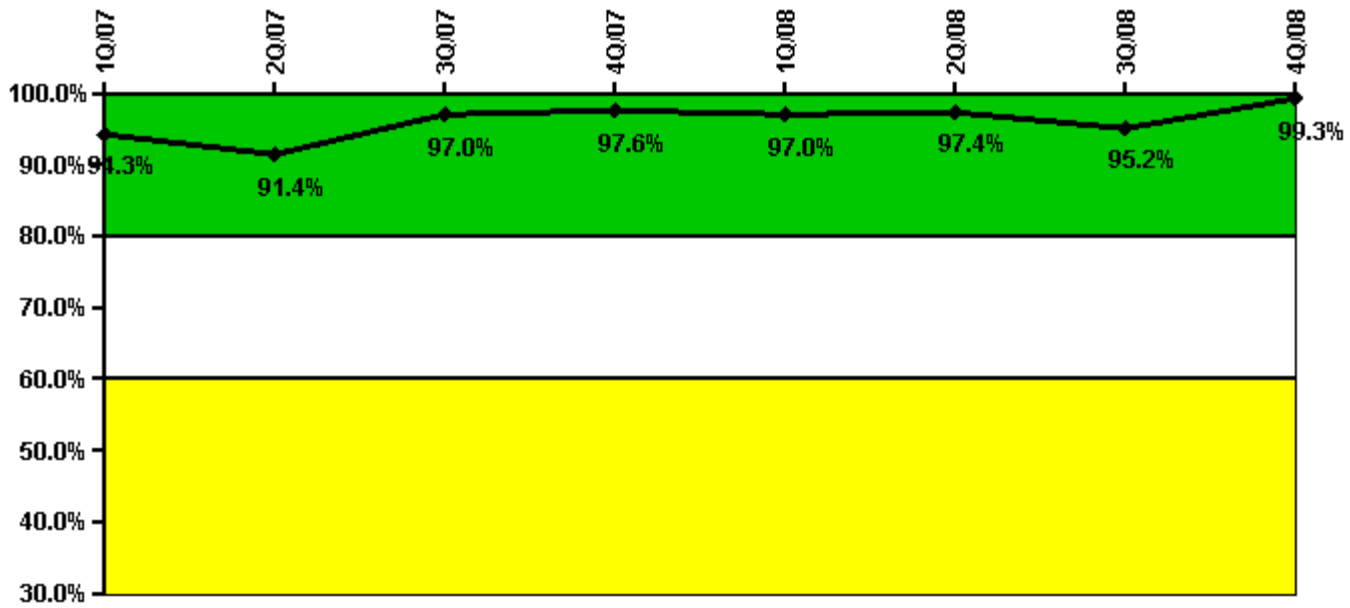
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful opportunities	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



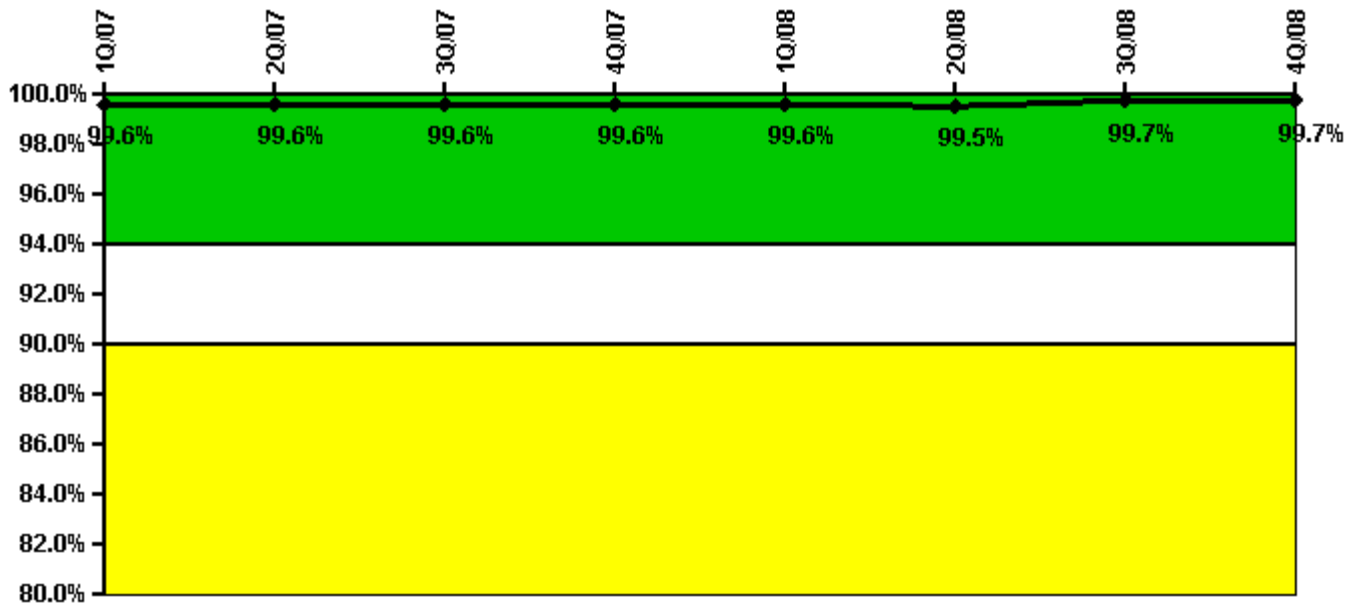
Thresholds: White < 80.0% Yellow < 60.0%

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



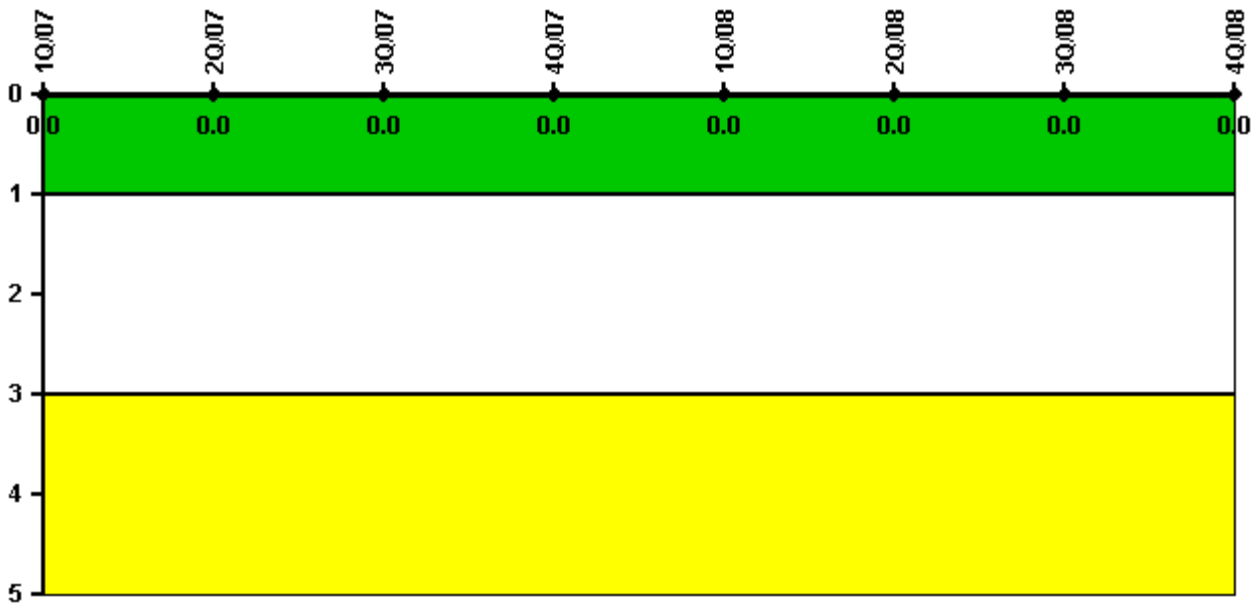
Thresholds: White > 2.0 Yellow > 5.0

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

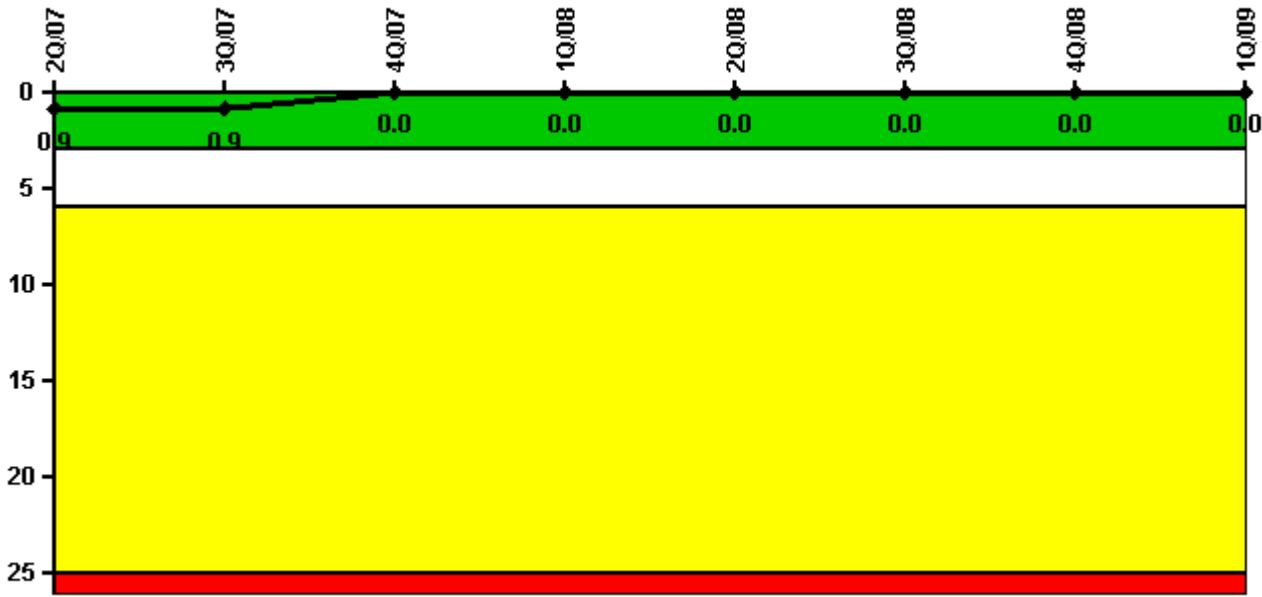
[Security](#) information not publicly available.

Surry 2

1Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



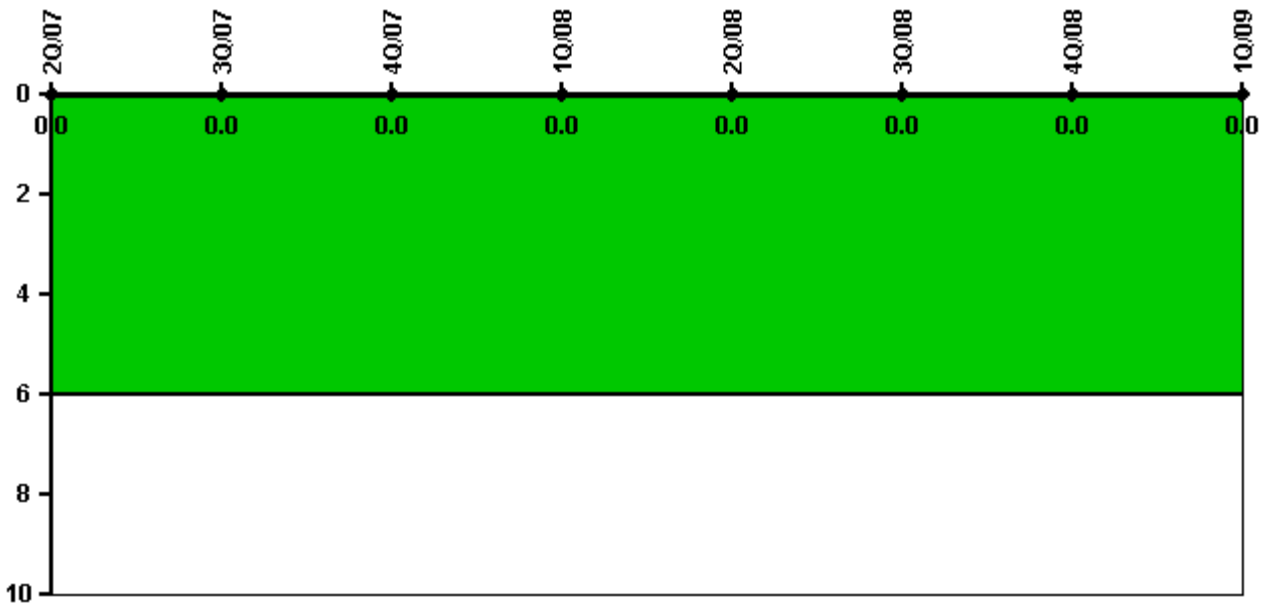
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2183.0	1622.6	2208.0	2209.0	2159.0
Indicator value	0.9	0.9	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



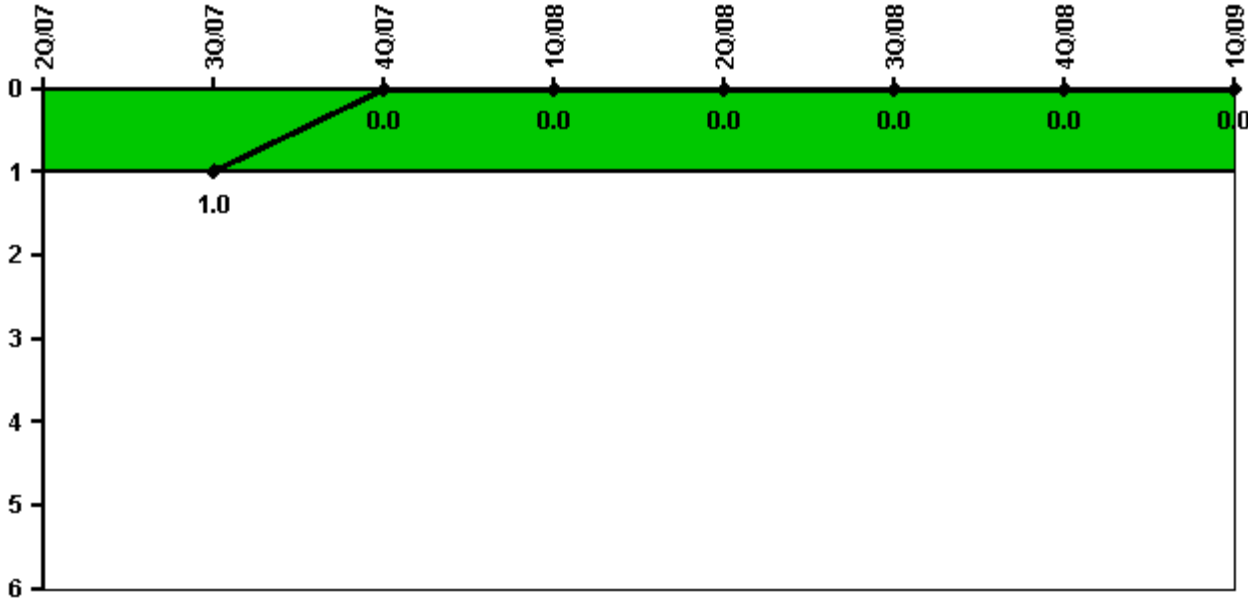
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2183.0	1622.6	2208.0	2209.0	2159.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



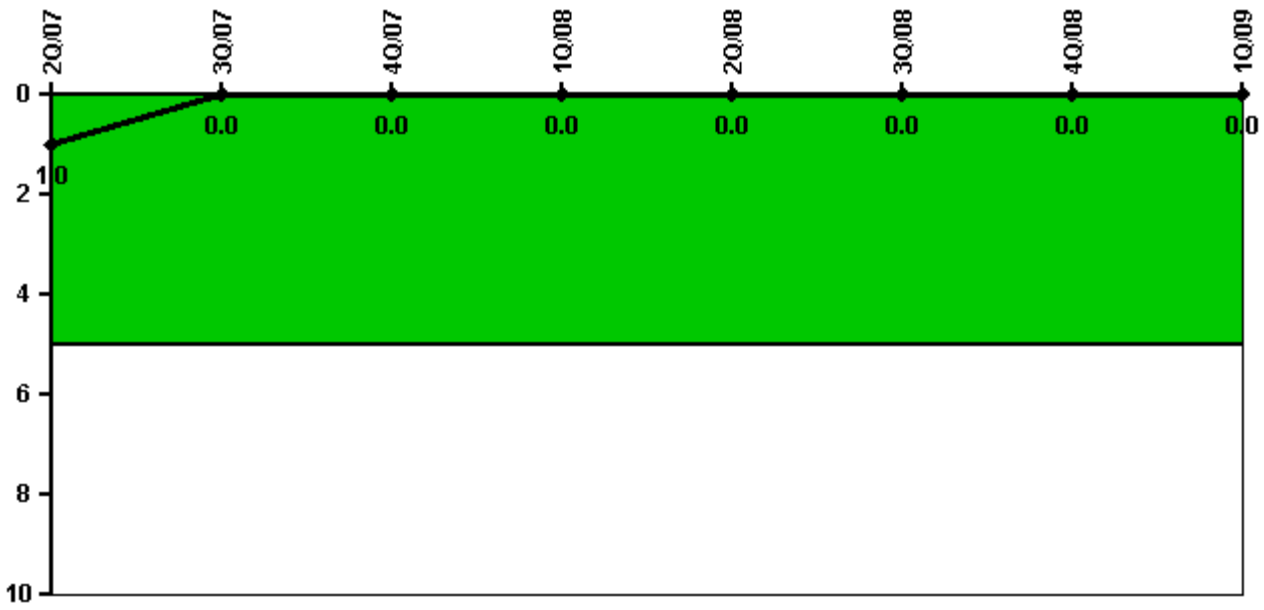
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



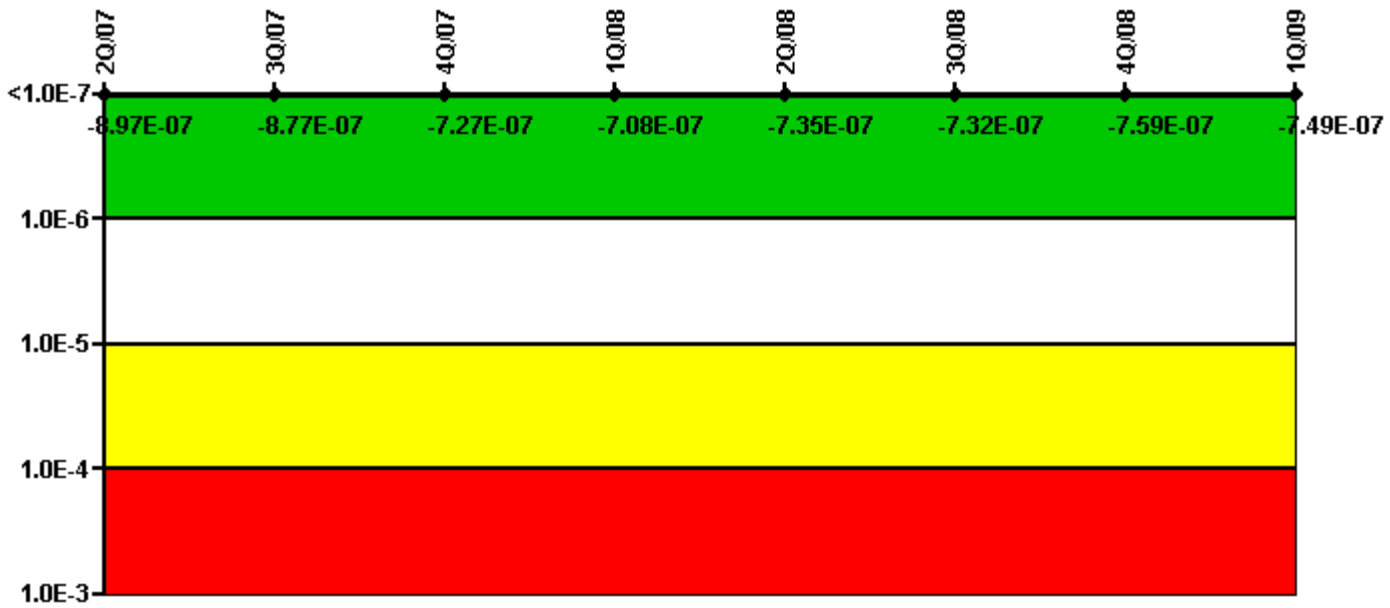
Thresholds: White > 5.0

Notes

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



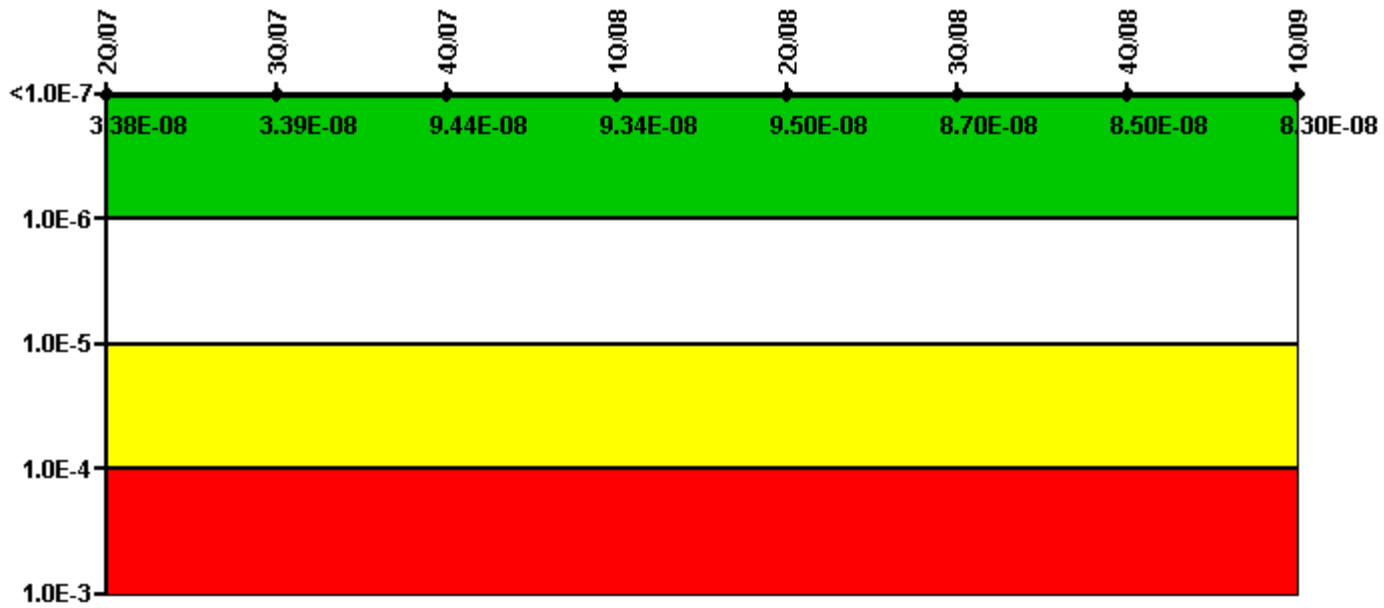
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (Δ CDF)	7.30E-08	7.30E-08	3.30E-08	6.20E-08	4.50E-08	4.80E-08	3.10E-08	3.10E-08
URI (Δ CDF)	-9.70E-07	-9.50E-07	-7.60E-07	-7.70E-07	-7.80E-07	-7.80E-07	-7.90E-07	-7.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.97E-07	-8.77E-07	-7.27E-07	-7.08E-07	-7.35E-07	-7.32E-07	-7.59E-07	-7.49E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



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

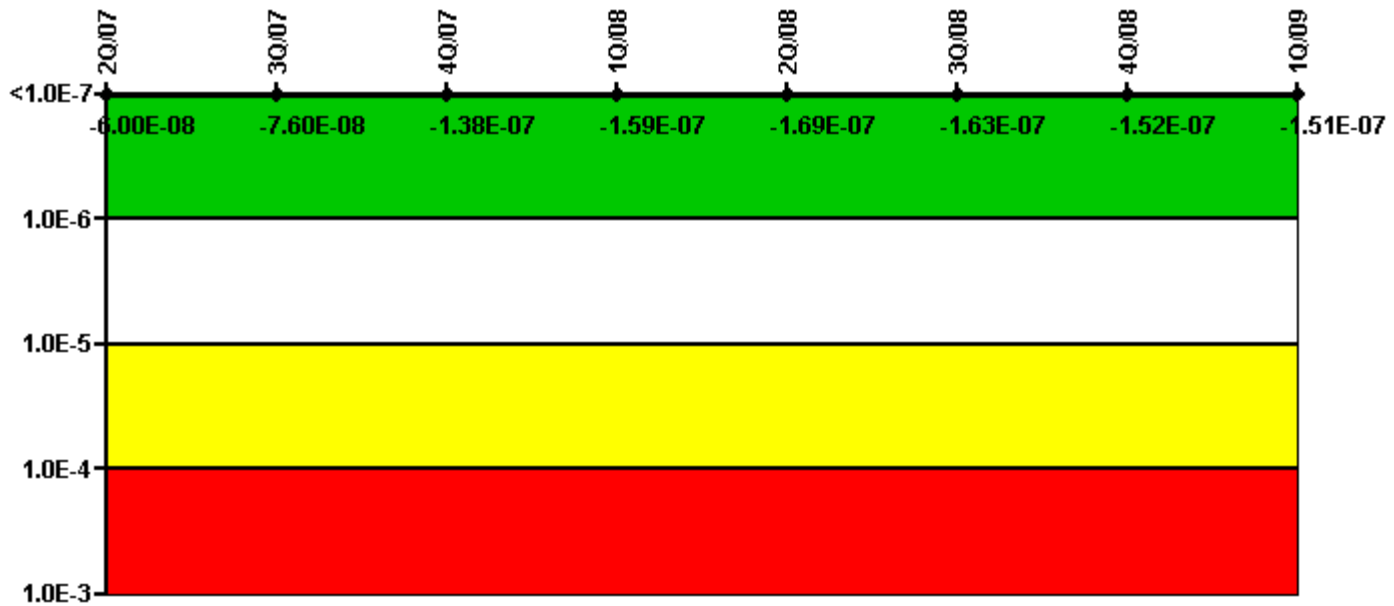
Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (Δ CDF)	7.80E-09	7.90E-09	7.40E-09	7.40E-09	1.30E-08	1.30E-08	1.20E-08	1.20E-08
URI (Δ CDF)	2.60E-08	2.60E-08	8.70E-08	8.60E-08	8.20E-08	7.40E-08	7.30E-08	7.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.38E-08	3.39E-08	9.44E-08	9.34E-08	9.50E-08	8.70E-08	8.50E-08	8.30E-08

Licensee Comments:

1Q/09: An evaluation of a possible pump failure is pending.

Mitigating Systems Performance Index, Heat Removal System



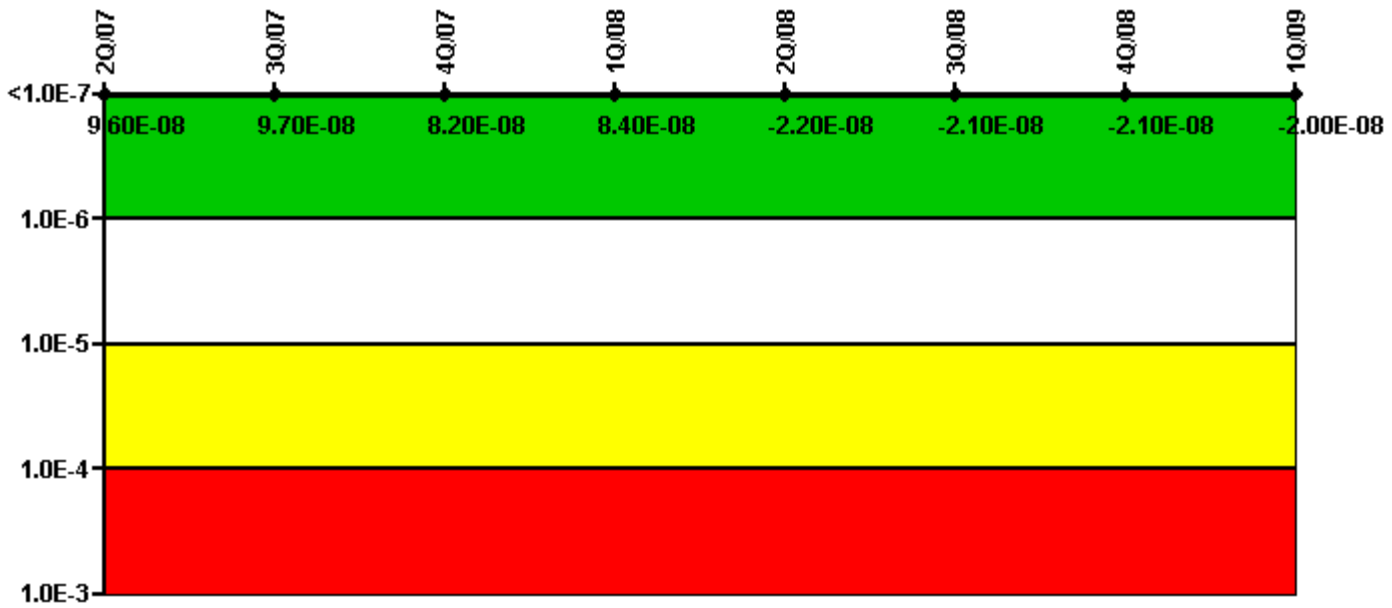
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	5.00E-08	3.40E-08	-2.80E-08	-4.90E-08	-4.90E-08	-4.30E-08	-3.20E-08	-3.10E-08
URI (Δ CDF)	-1.10E-07	-1.10E-07	-1.10E-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	-6.00E-08	-7.60E-08	-1.38E-07	-1.59E-07	-1.69E-07	-1.63E-07	-1.52E-07	-1.51E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



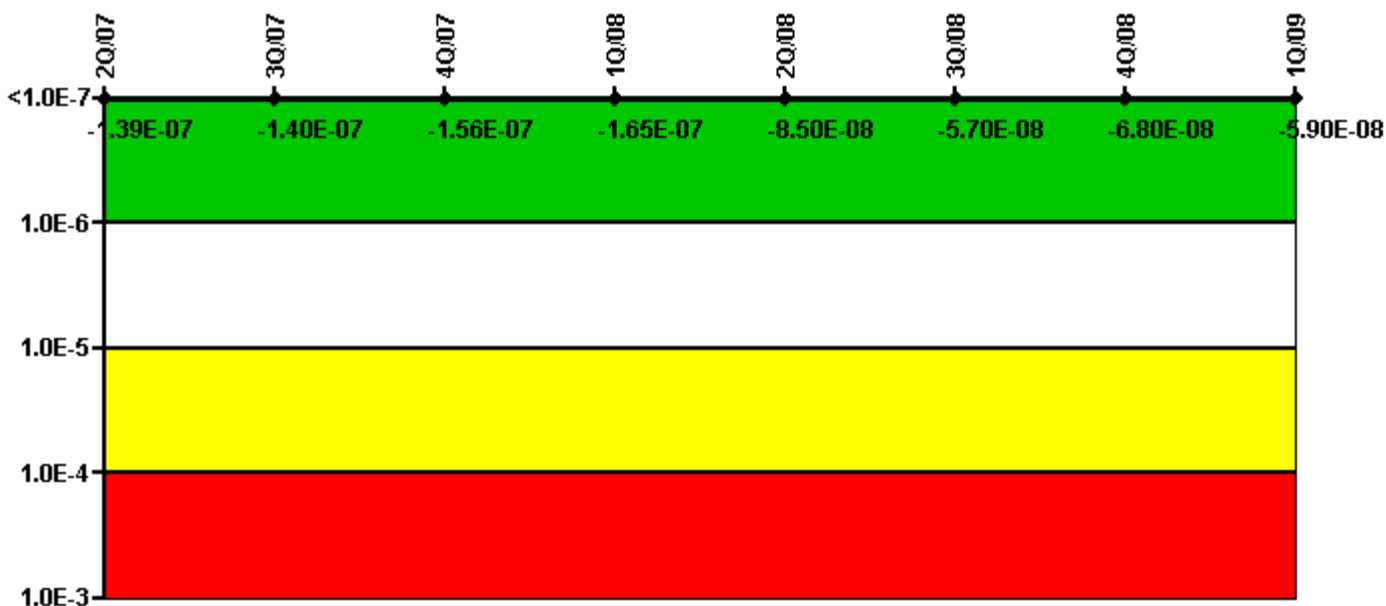
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (Δ CDF)	1.10E-08	1.10E-08	-5.00E-09	-5.00E-09	-5.00E-09	-5.00E-09	-5.00E-09	-5.00E-09
URI (Δ CDF)	8.50E-08	8.60E-08	8.70E-08	8.90E-08	-1.70E-08	-1.60E-08	-1.60E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.60E-08	9.70E-08	8.20E-08	8.40E-08	-2.20E-08	-2.10E-08	-2.10E-08	-2.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



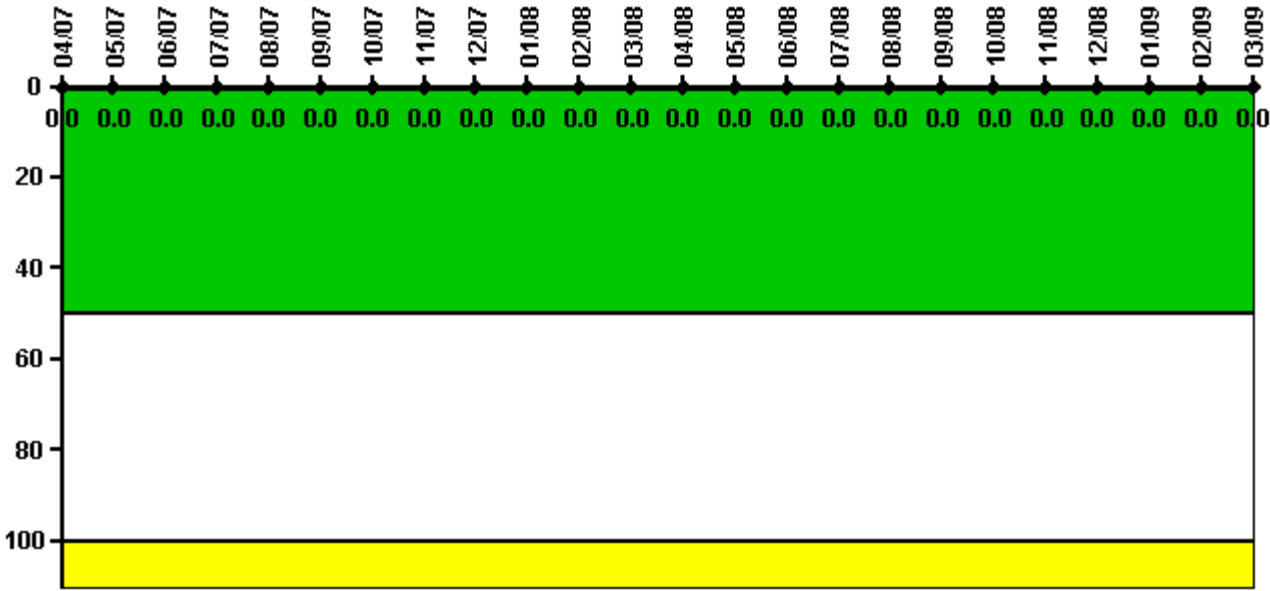
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	8.10E-10	1.90E-10	-5.90E-09	-1.50E-08	6.50E-08	9.30E-08	8.20E-08	9.10E-08
URI (Δ CDF)	-1.40E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.39E-07	-1.40E-07	-1.56E-07	-1.65E-07	-8.50E-08	-5.70E-08	-6.80E-08	-5.90E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

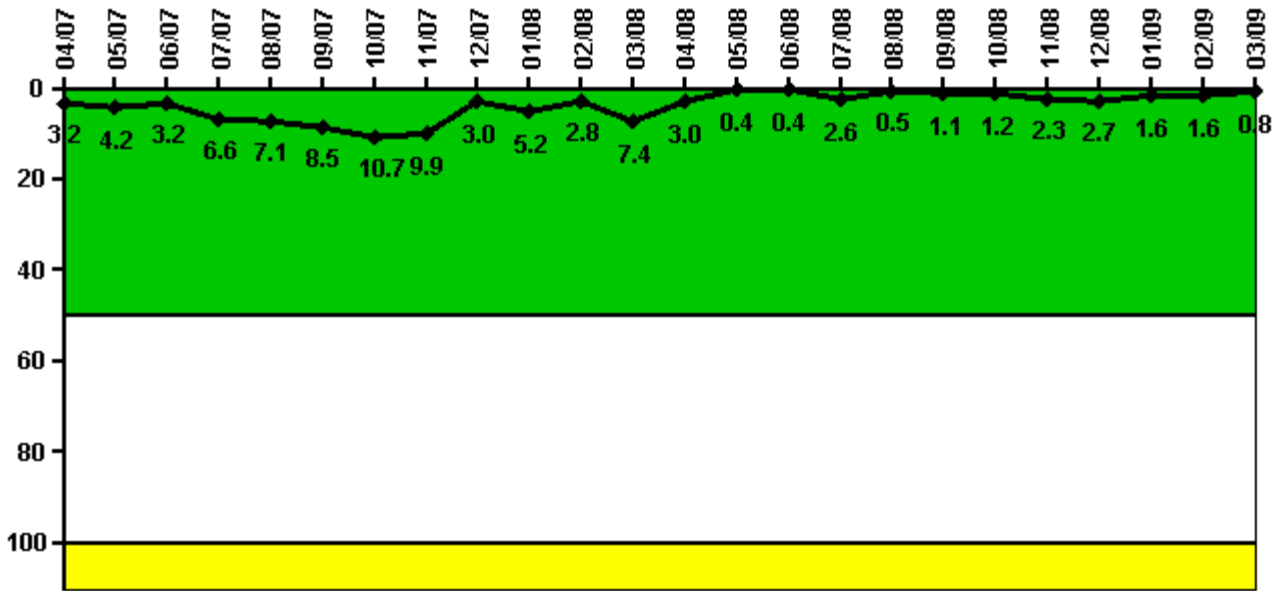
Notes

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	0.000365	0.000428	0.000411	0.000437	0.000407	0.000355	0.000351	0.000345	0.000397	0.000388	0.000338	0.000415
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum activity	0.000372	0.000232	0.000330	0.000199	0.000198	0.000168	0.000192	0.000197	0.000226	0.000237	0.000229	0.000239
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



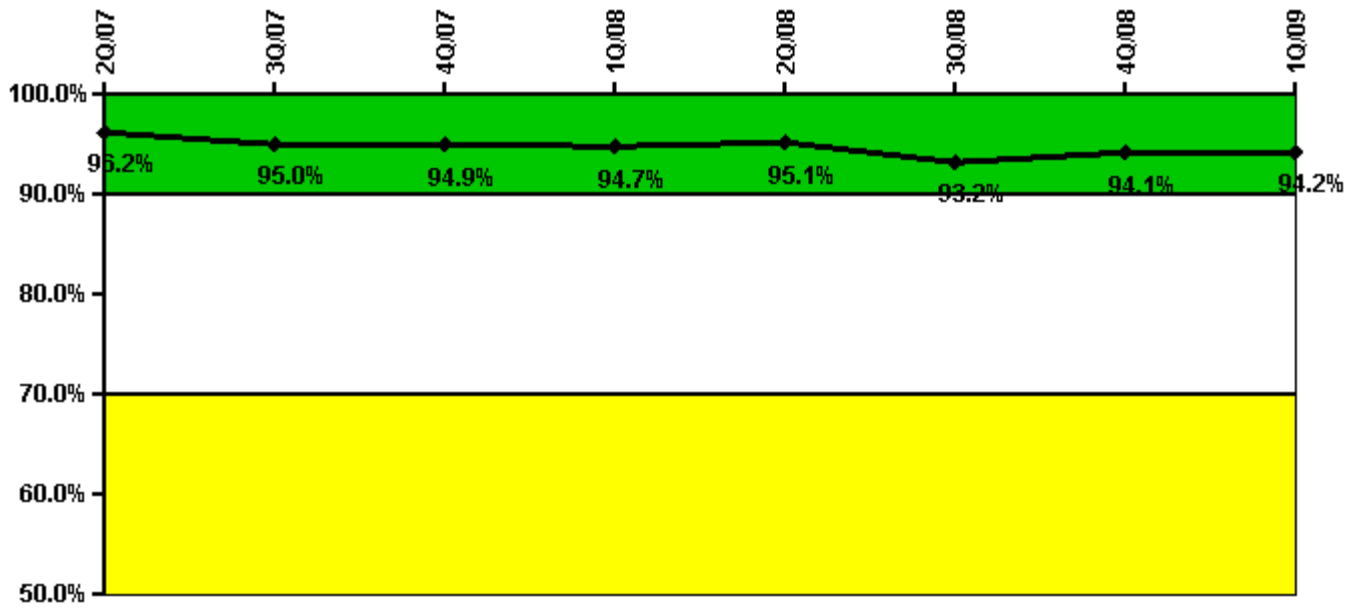
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum leakage	0.320	0.420	0.320	0.660	0.710	0.850	1.070	0.990	0.300	0.520	0.280	0.740
Technical specification limit	10.0	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	4.2	3.2	6.6	7.1	8.5	10.7	9.9	3.0	5.2	2.8	7.4
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	0.300	0.040	0.040	0.260	0.050	0.110	0.120	0.230	0.270	0.160	0.160	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	3.0	0.4	0.4	2.6	0.5	1.1	1.2	2.3	2.7	1.6	1.6	0.8

Licensee Comments: none

Drill/Exercise Performance



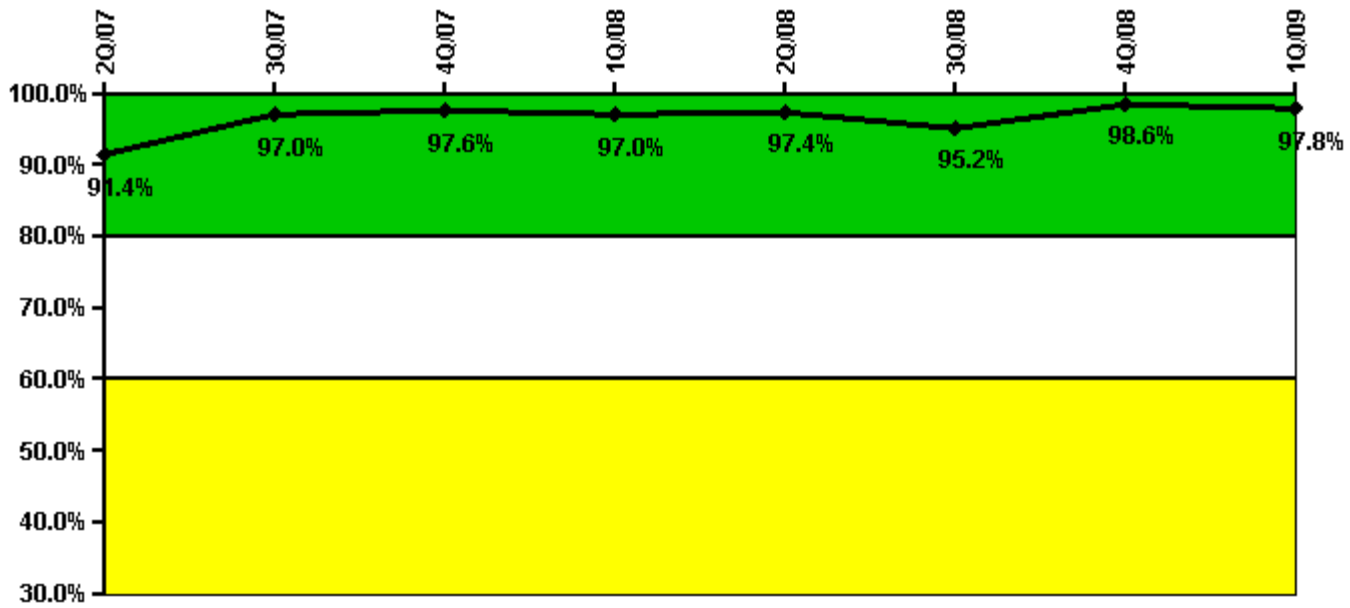
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful opportunities	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%

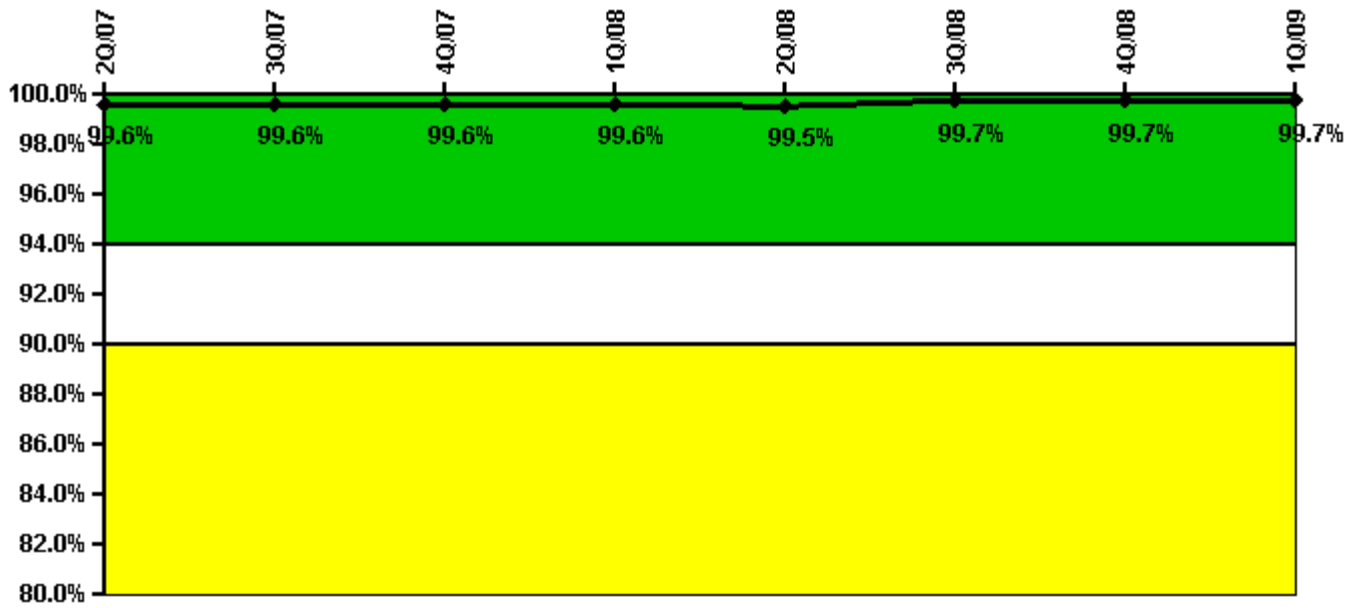
Notes

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



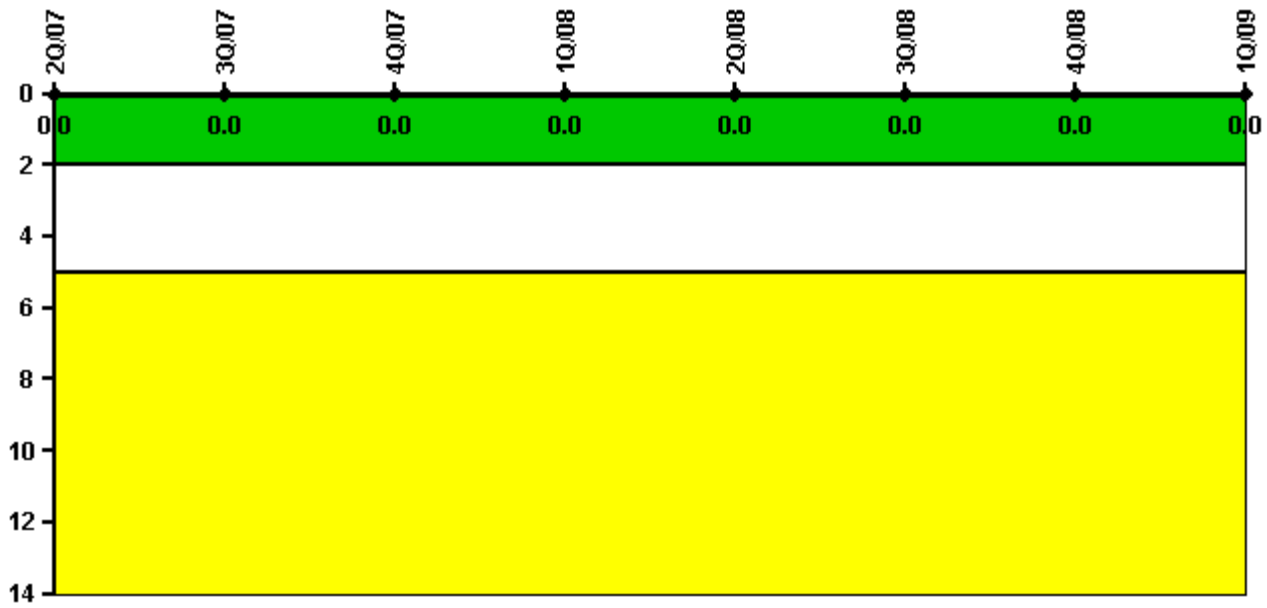
Thresholds: White < 94.0% Yellow < 90.0%

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



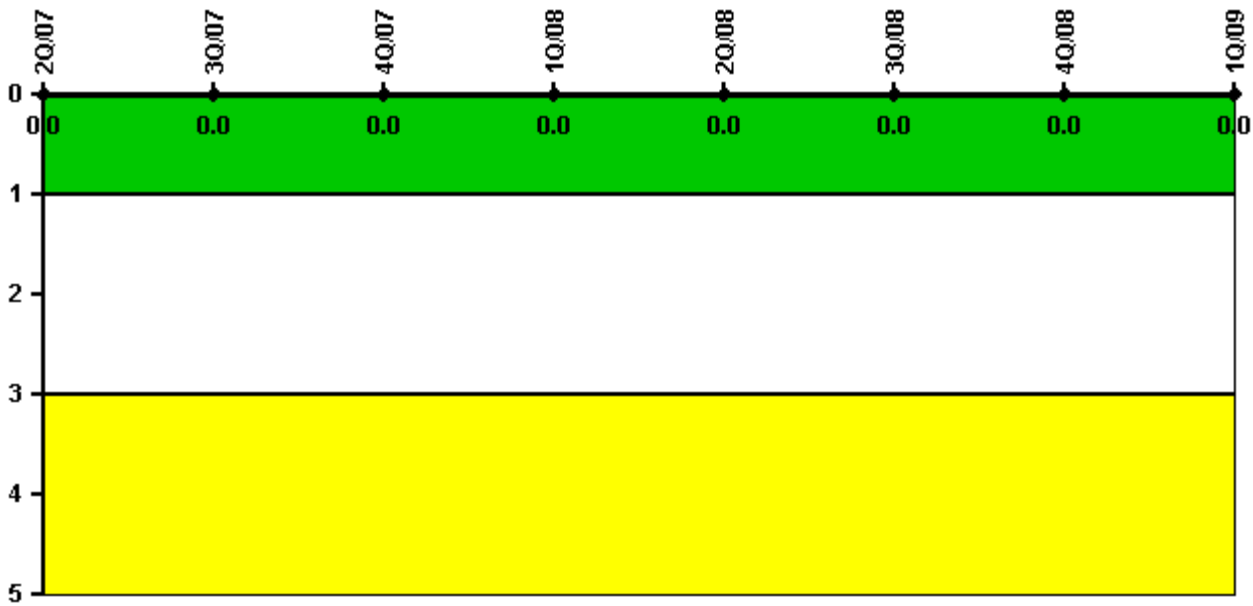
Thresholds: White > 2.0 Yellow > 5.0

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

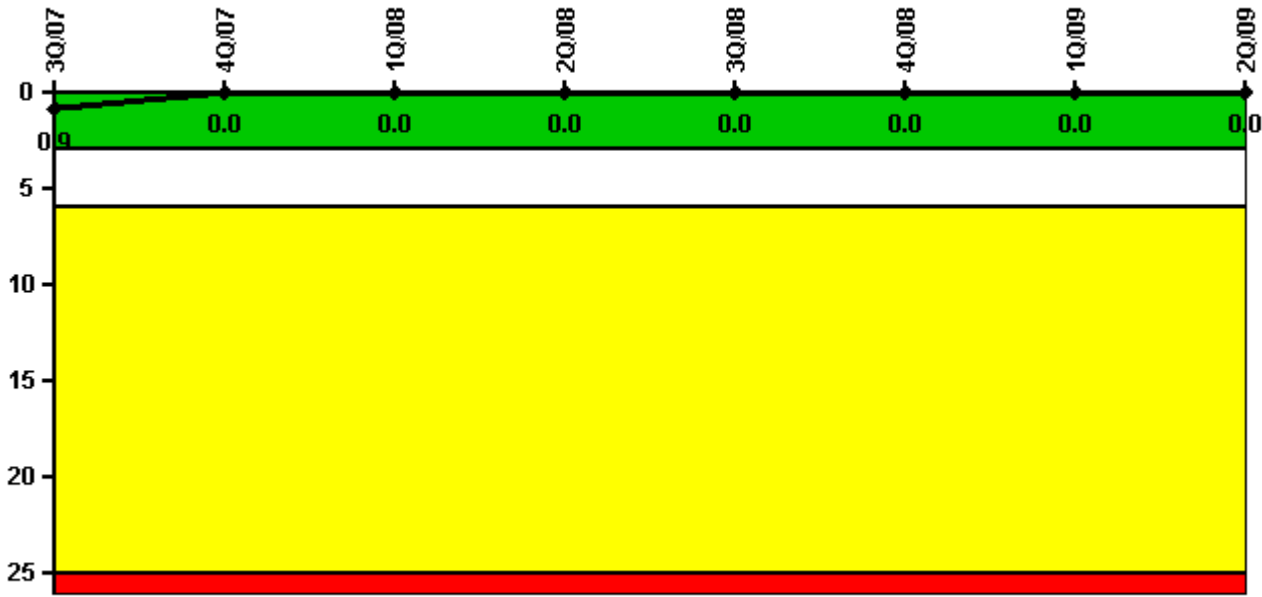
[Security](#) information not publicly available.

Surry 2

2Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



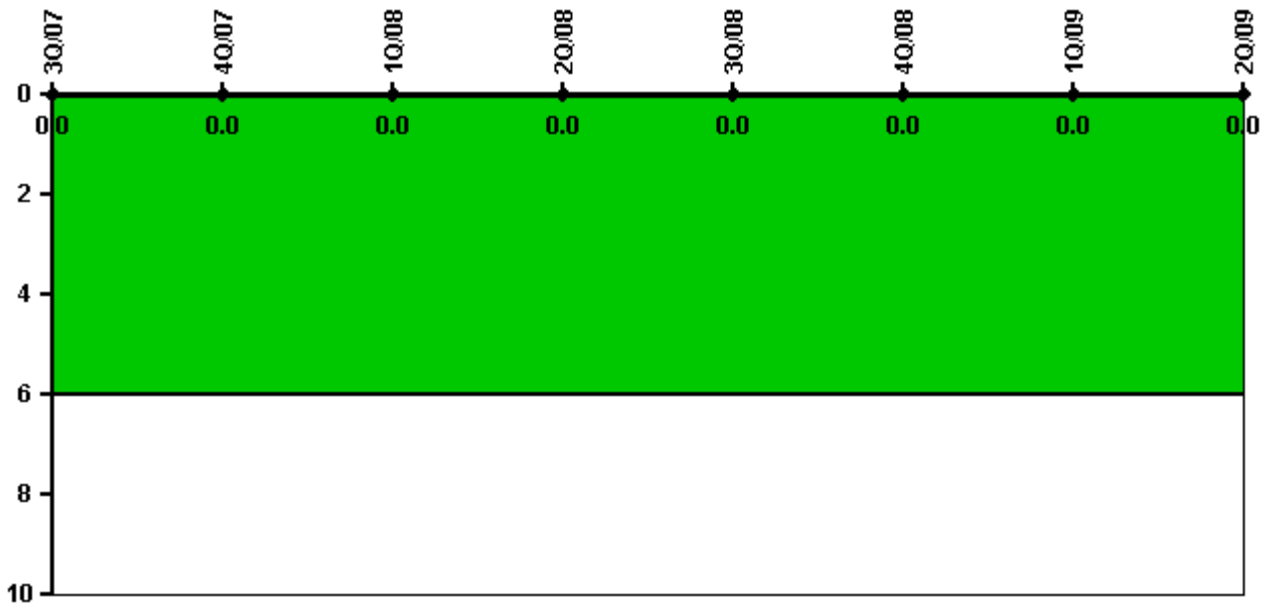
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2183.0	1622.6	2208.0	2209.0	2159.0	2184.0
Indicator value	0.9	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



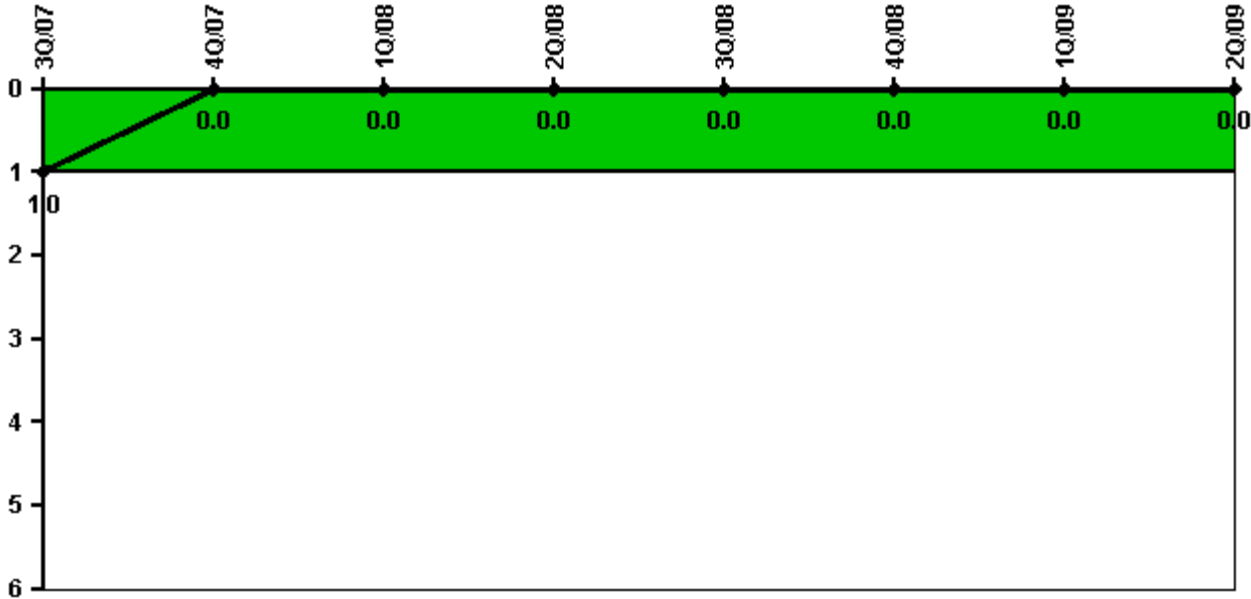
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2183.0	1622.6	2208.0	2209.0	2159.0	2184.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



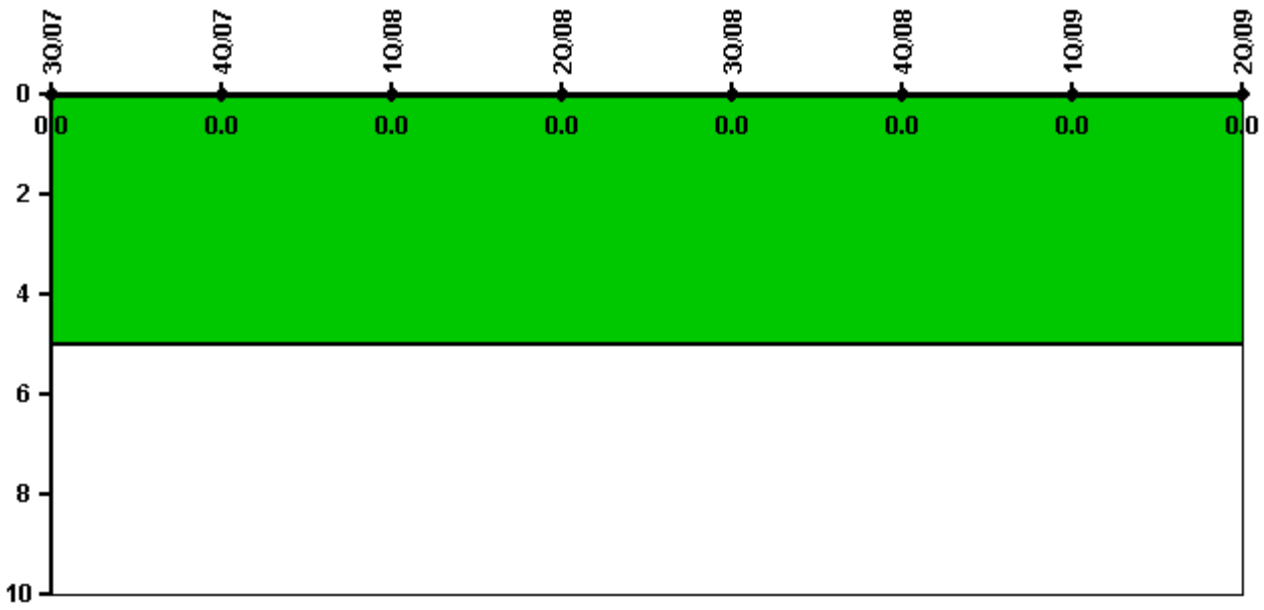
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



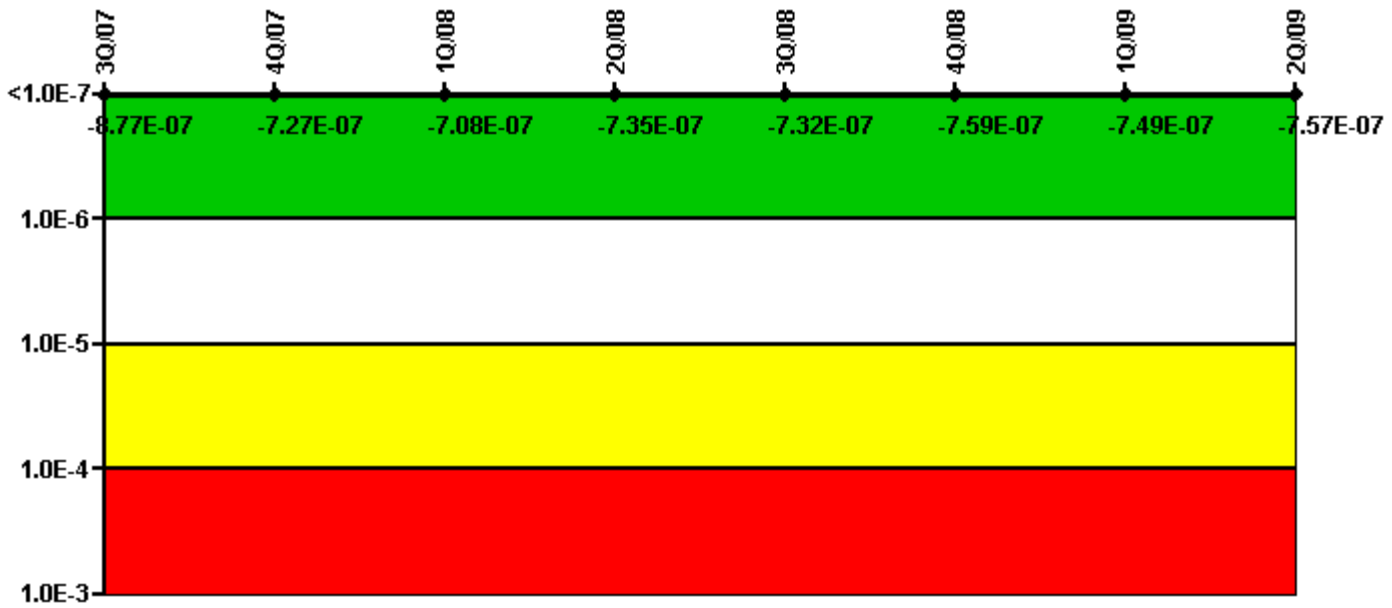
Thresholds: White > 5.0

Notes

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



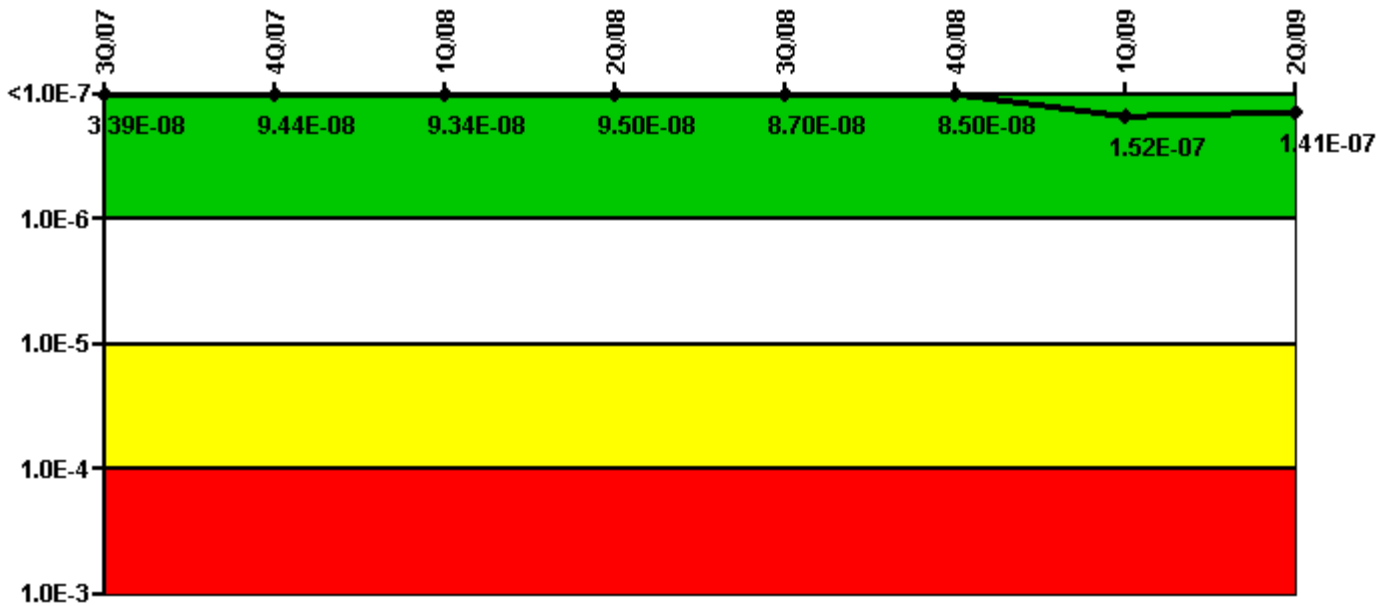
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (Δ CDF)	7.30E-08	3.30E-08	6.20E-08	4.50E-08	4.80E-08	3.10E-08	3.10E-08	2.30E-08
URI (Δ CDF)	-9.50E-07	-7.60E-07	-7.70E-07	-7.80E-07	-7.80E-07	-7.90E-07	-7.80E-07	-7.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.77E-07	-7.27E-07	-7.08E-07	-7.35E-07	-7.32E-07	-7.59E-07	-7.49E-07	-7.57E-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

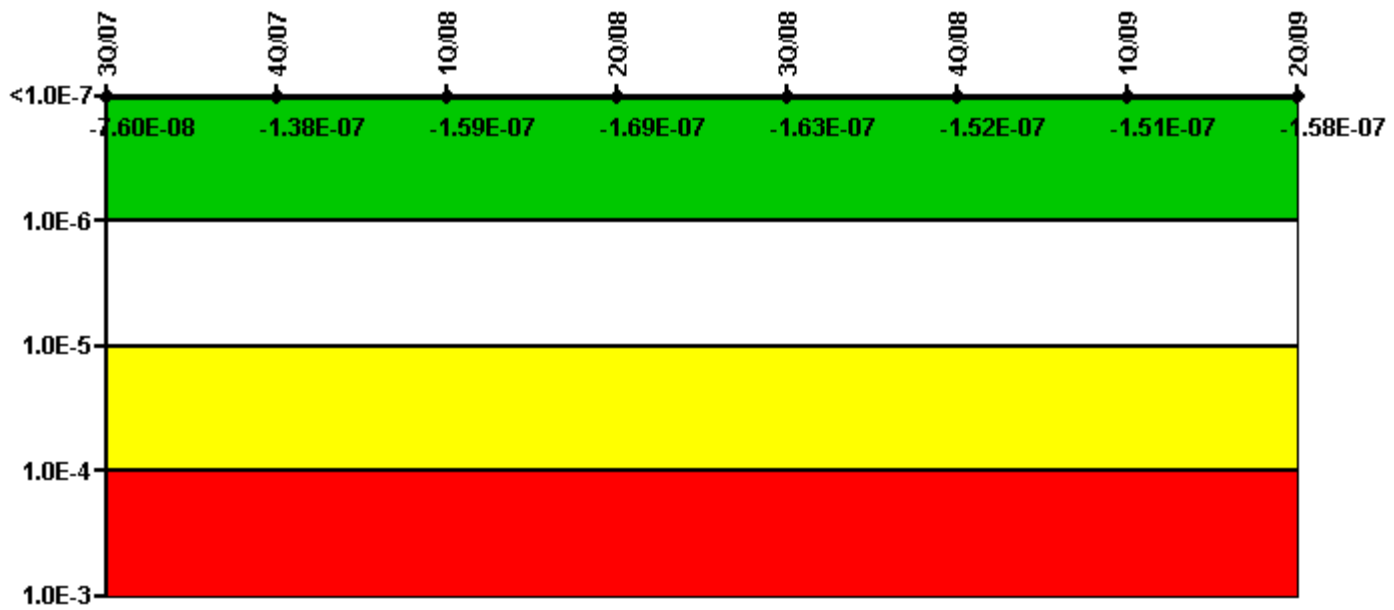
Notes

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)	7.90E-09	7.40E-09	7.40E-09	1.30E-08	1.30E-08	1.20E-08	1.20E-08	1.10E-08
URI (Δ CDF)	2.60E-08	8.70E-08	8.60E-08	8.20E-08	7.40E-08	7.30E-08	1.40E-07	1.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.39E-08	9.44E-08	9.34E-08	9.50E-08	8.70E-08	8.50E-08	1.52E-07	1.41E-07

Licensee Comments:

2Q/09: A pending March 2009 failure evaluation was completed and determined to be a MSPI failure. Historical data was changed with no change in color.

Mitigating Systems Performance Index, Heat Removal System



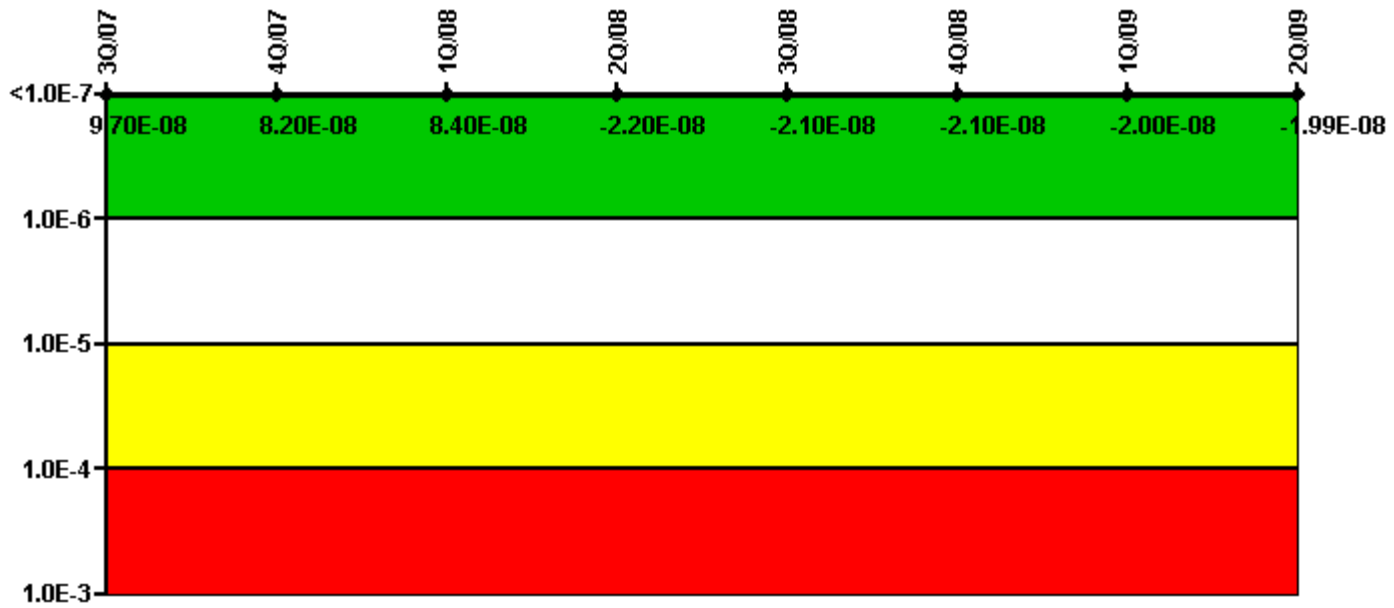
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (Δ CDF)	3.40E-08	-2.80E-08	-4.90E-08	-4.90E-08	-4.30E-08	-3.20E-08	-3.10E-08	-2.80E-08
URI (Δ CDF)	-1.10E-07	-1.10E-07	-1.10E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.60E-08	-1.38E-07	-1.59E-07	-1.69E-07	-1.63E-07	-1.52E-07	-1.51E-07	-1.58E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



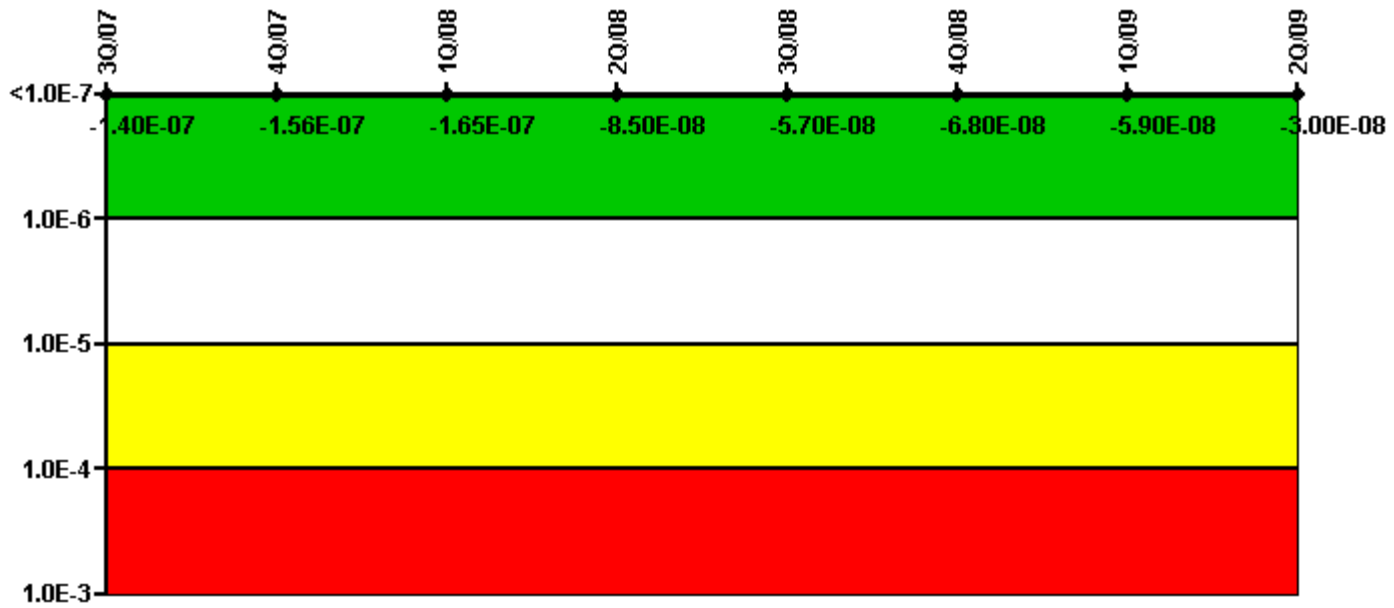
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (Δ CDF)	1.10E-08	-5.00E-09	-5.00E-09	-5.00E-09	-5.00E-09	-5.00E-09	-5.00E-09	-4.90E-09
URI (Δ CDF)	8.60E-08	8.70E-08	8.90E-08	-1.70E-08	-1.60E-08	-1.60E-08	-1.50E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.70E-08	8.20E-08	8.40E-08	-2.20E-08	-2.10E-08	-2.10E-08	-2.00E-08	-1.99E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



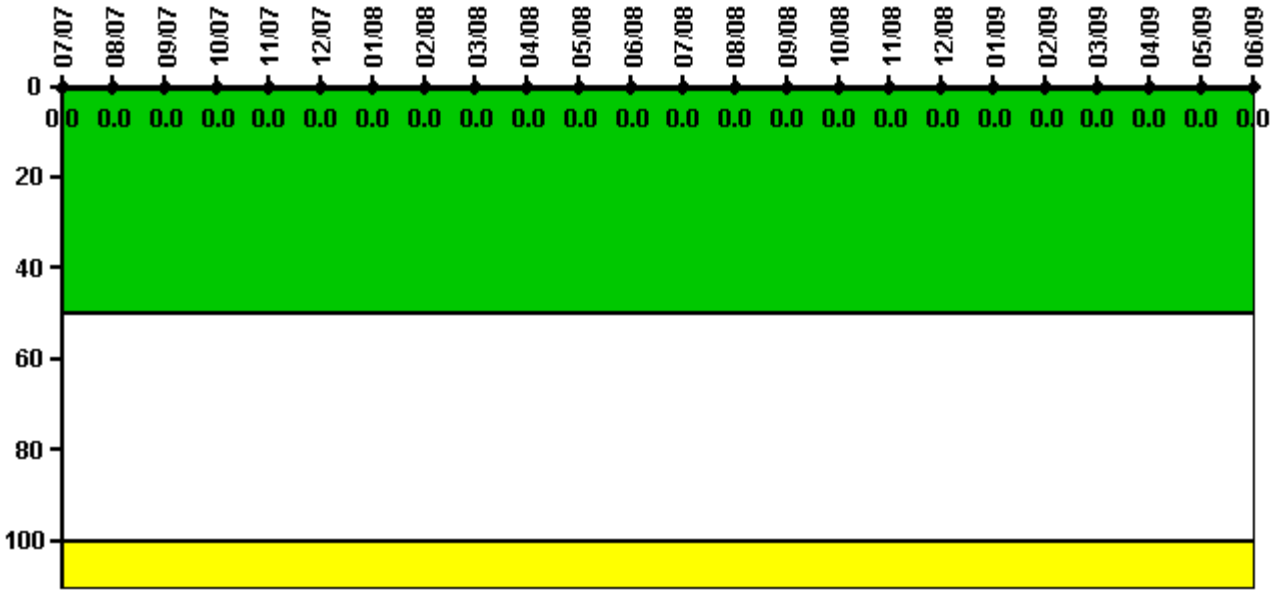
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	1.90E-10	-5.90E-09	-1.50E-08	6.50E-08	9.30E-08	8.20E-08	9.10E-08	1.20E-07
URI (Δ CDF)	-1.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-07	-1.56E-07	-1.65E-07	-8.50E-08	-5.70E-08	-6.80E-08	-5.90E-08	-3.00E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

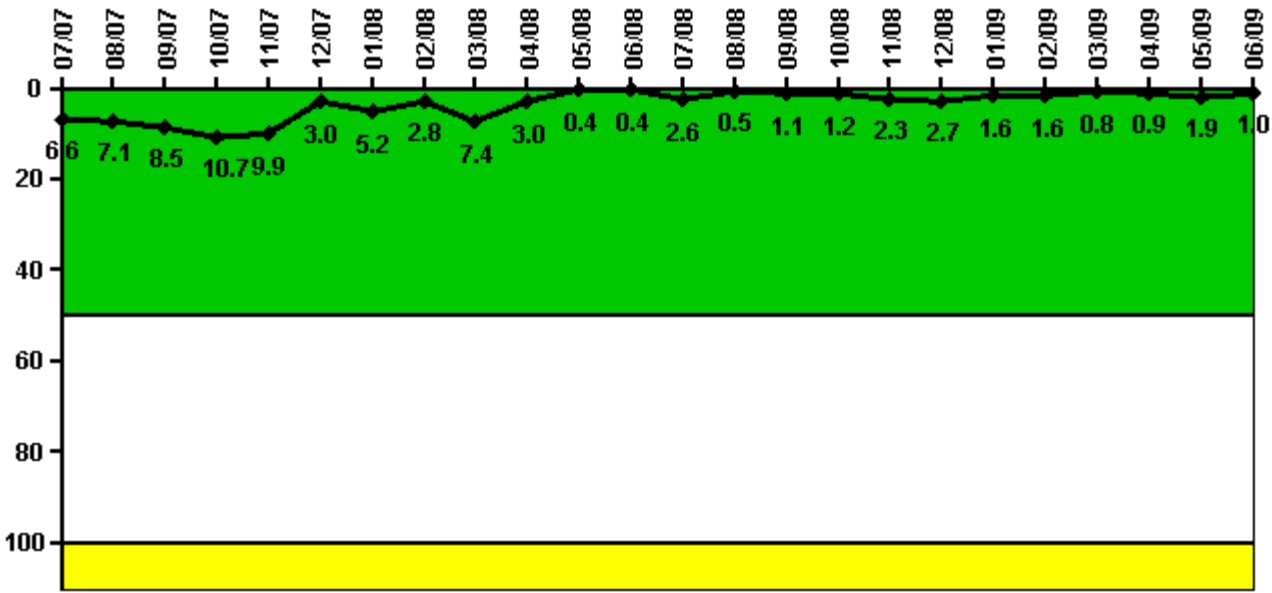
Notes

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	0.000437	0.000407	0.000355	0.000351	0.000345	0.000397	0.000388	0.000338	0.000415	0.000372	0.000232	0.000330
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum activity	0.000199	0.000198	0.000168	0.000192	0.000197	0.000226	0.000237	0.000229	0.000239	0.000256	0.000234	0.000237
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



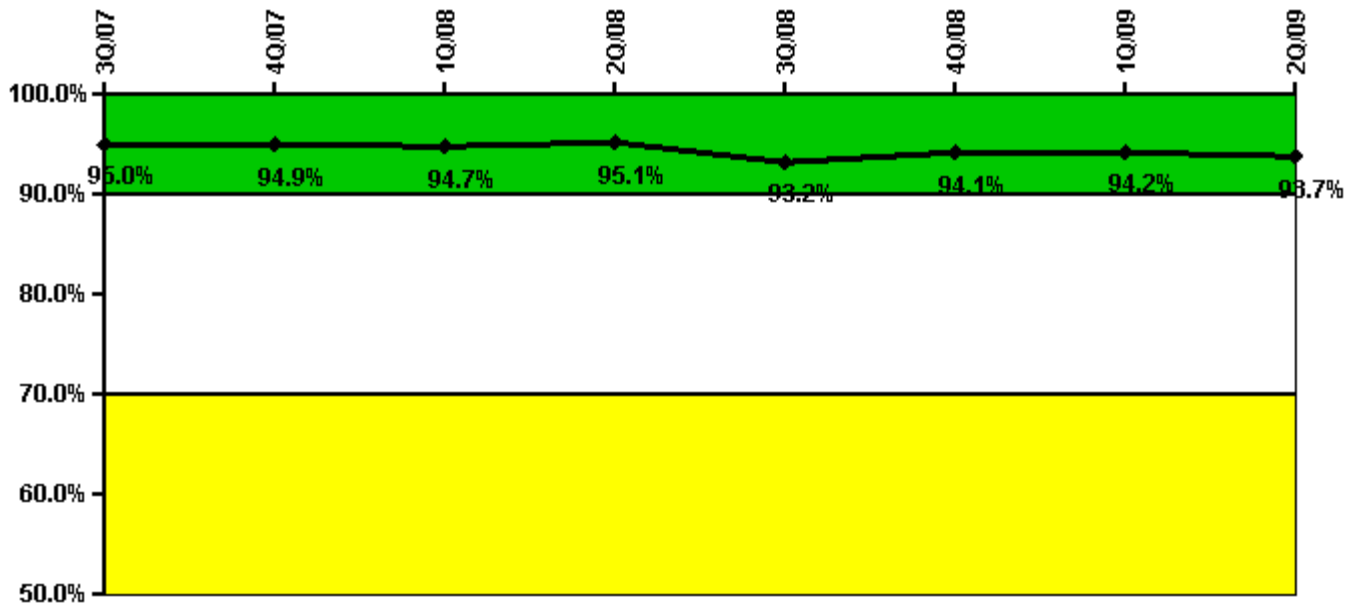
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum leakage	0.660	0.710	0.850	1.070	0.990	0.300	0.520	0.280	0.740	0.300	0.040	0.040
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	6.6	7.1	8.5	10.7	9.9	3.0	5.2	2.8	7.4	3.0	0.4	0.4
Reactor Coolant System Leakage	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum leakage	0.260	0.050	0.110	0.120	0.230	0.270	0.160	0.160	0.080	0.090	0.190	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	2.6	0.5	1.1	1.2	2.3	2.7	1.6	1.6	0.8	0.9	1.9	1.0

Licensee Comments: none

Drill/Exercise Performance



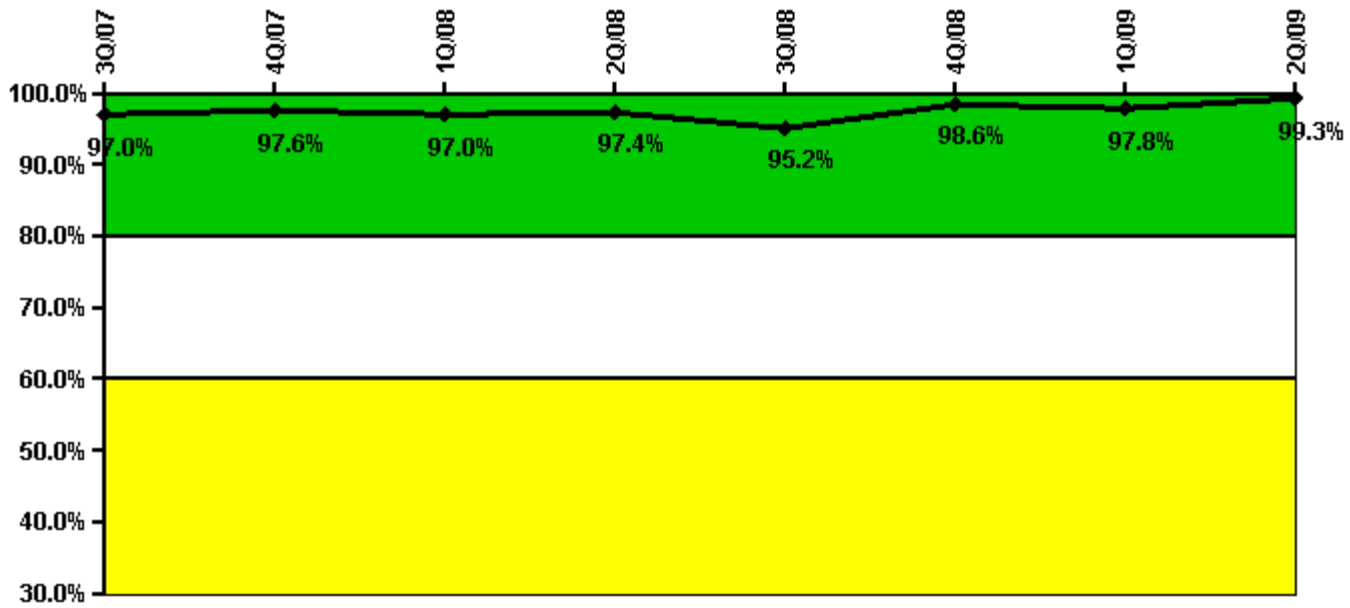
Thresholds: White < 90.0% Yellow < 70.0%

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



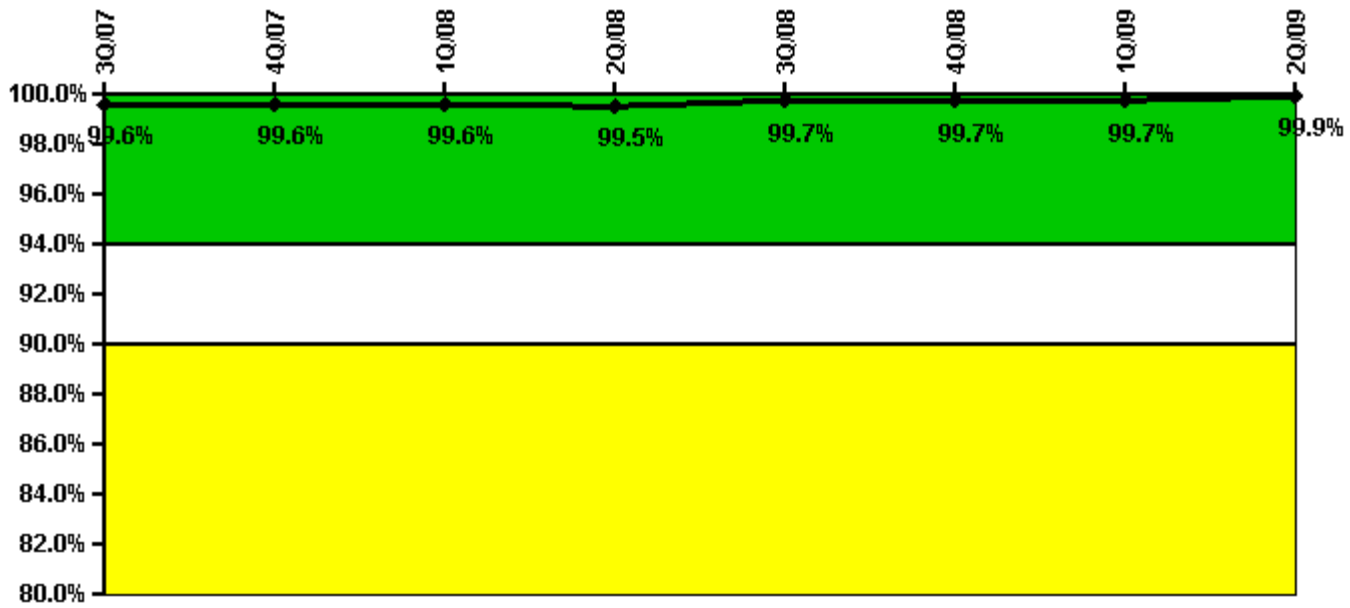
Thresholds: White < 80.0% Yellow < 60.0%

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



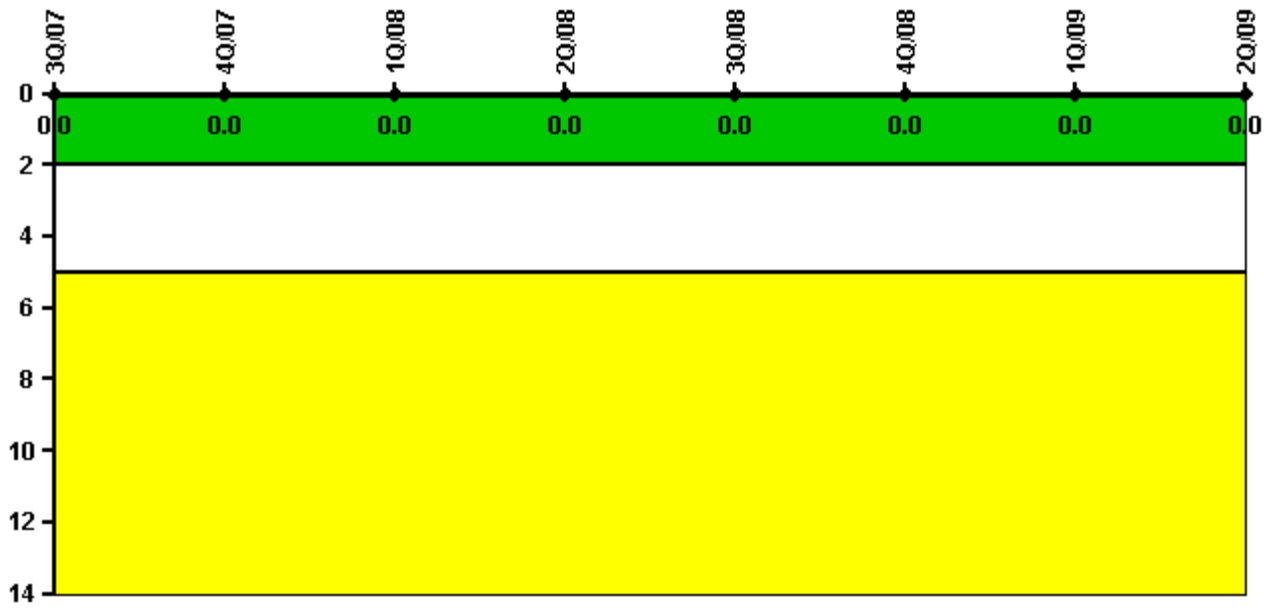
Thresholds: White < 94.0% Yellow < 90.0%

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



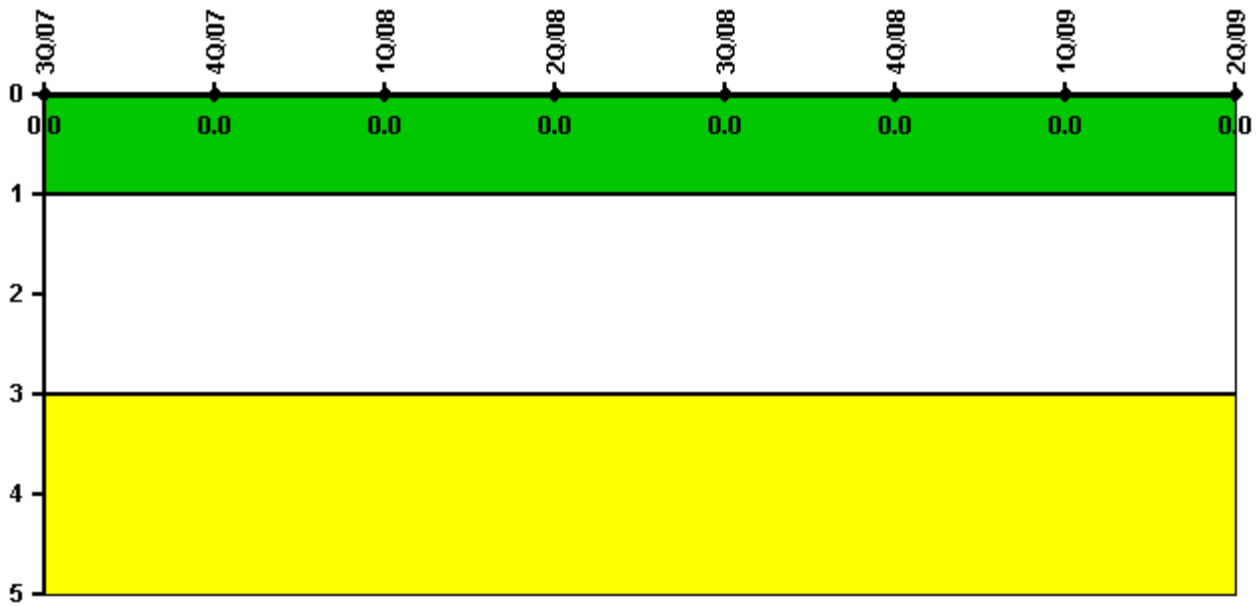
Thresholds: White > 2.0 Yellow > 5.0

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

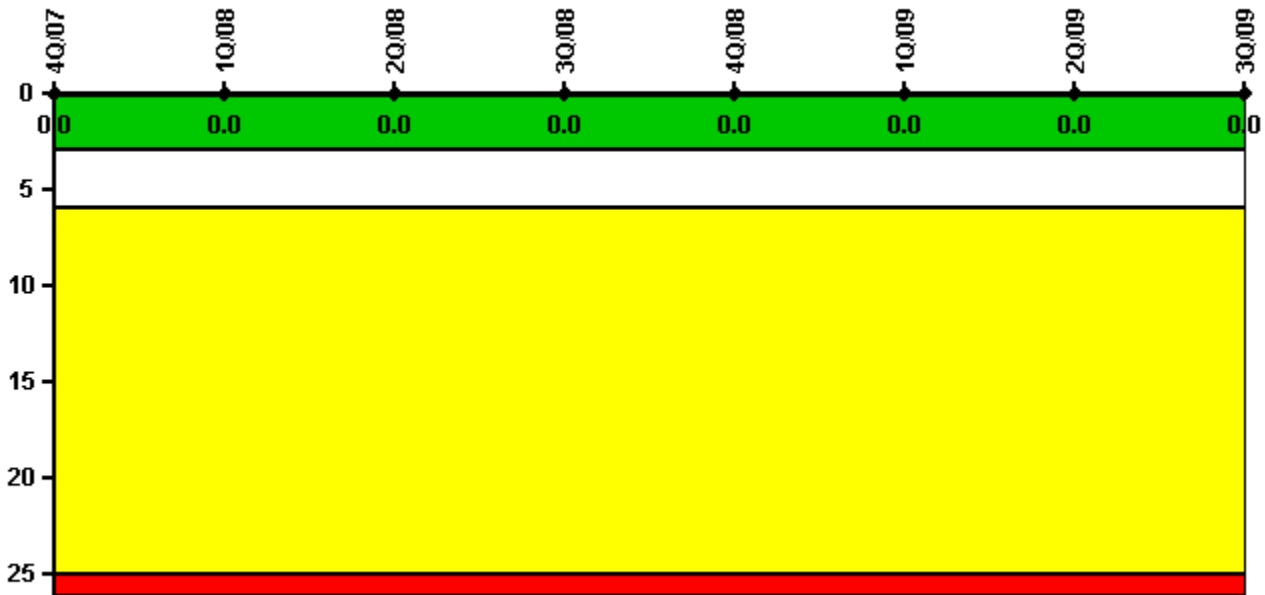
[Security](#) information not publicly available.

Surry 2

3Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



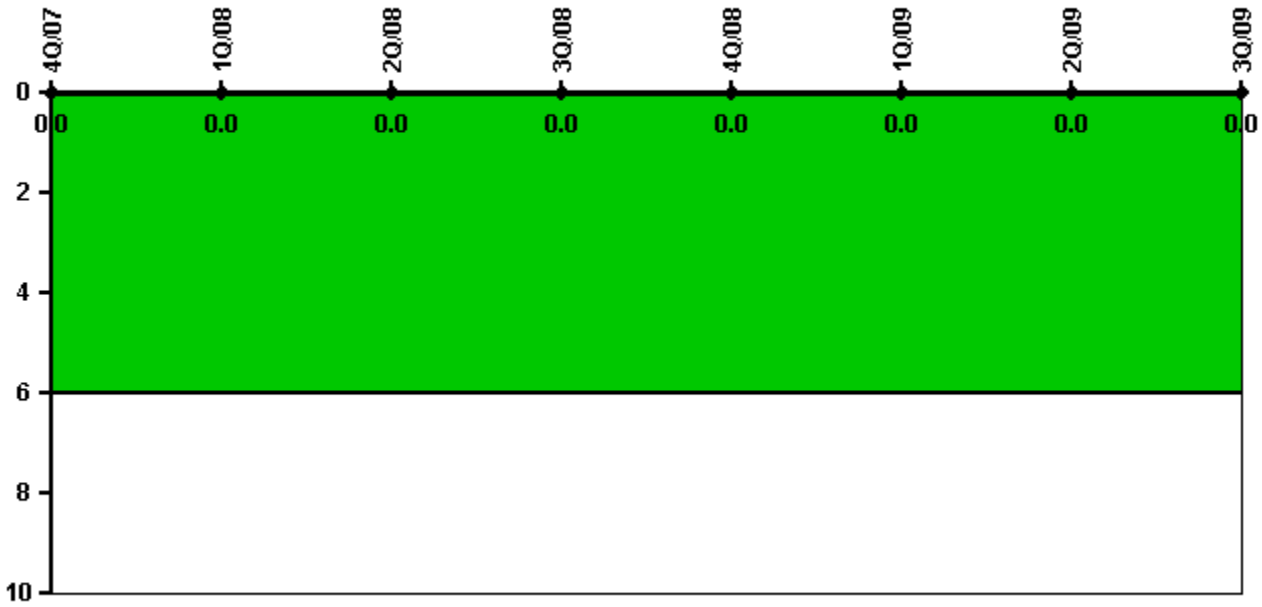
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2183.0	1622.6	2208.0	2209.0	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



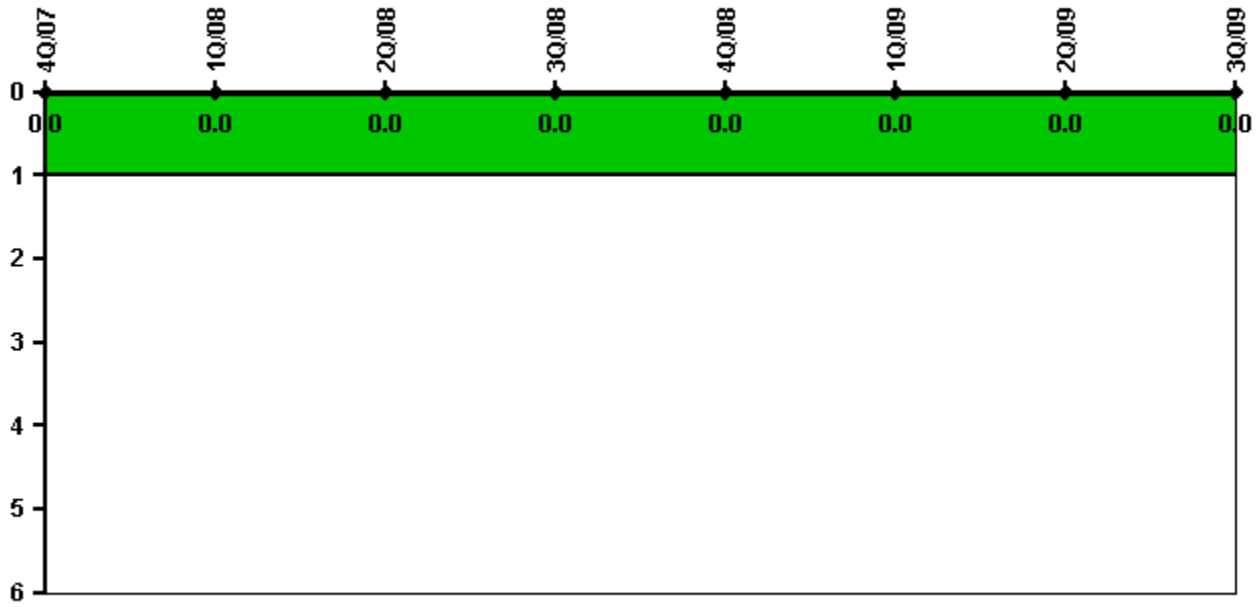
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	2183.0	1622.6	2208.0	2209.0	2159.0	2184.0	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



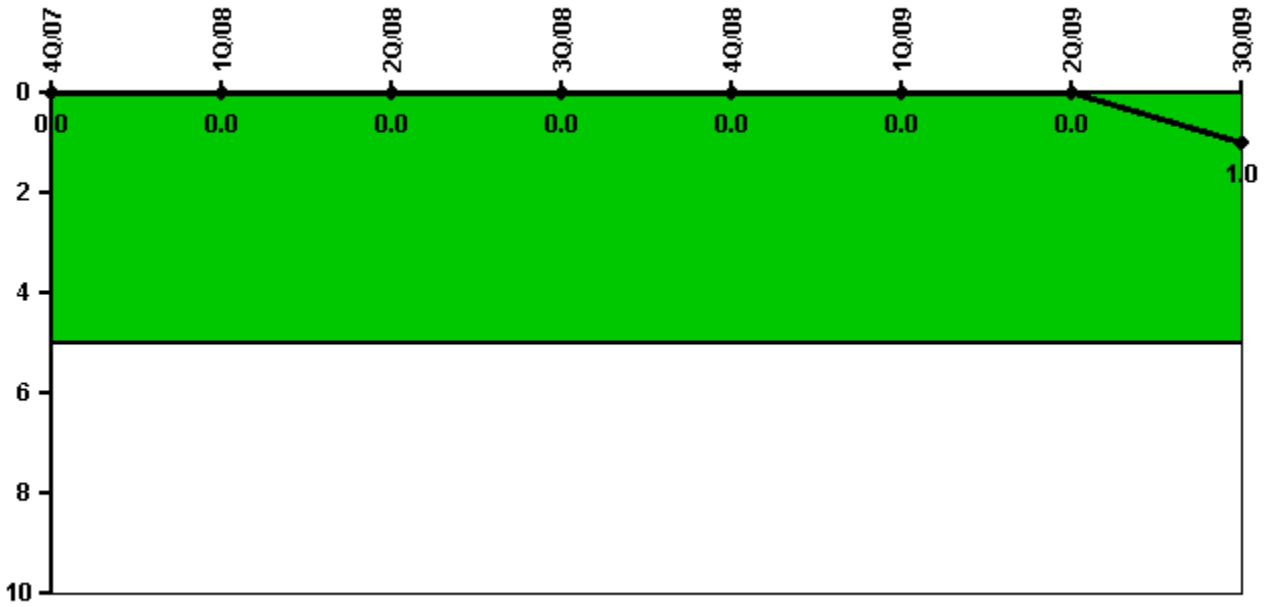
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/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)



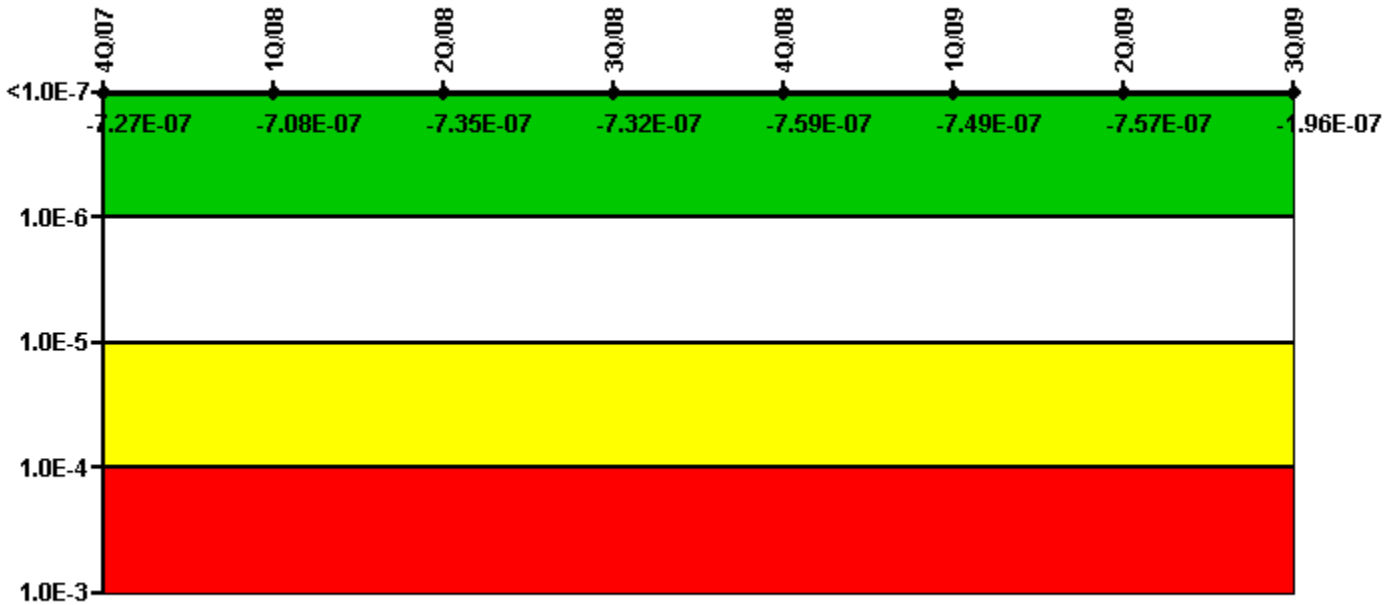
Thresholds: White > 5.0

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

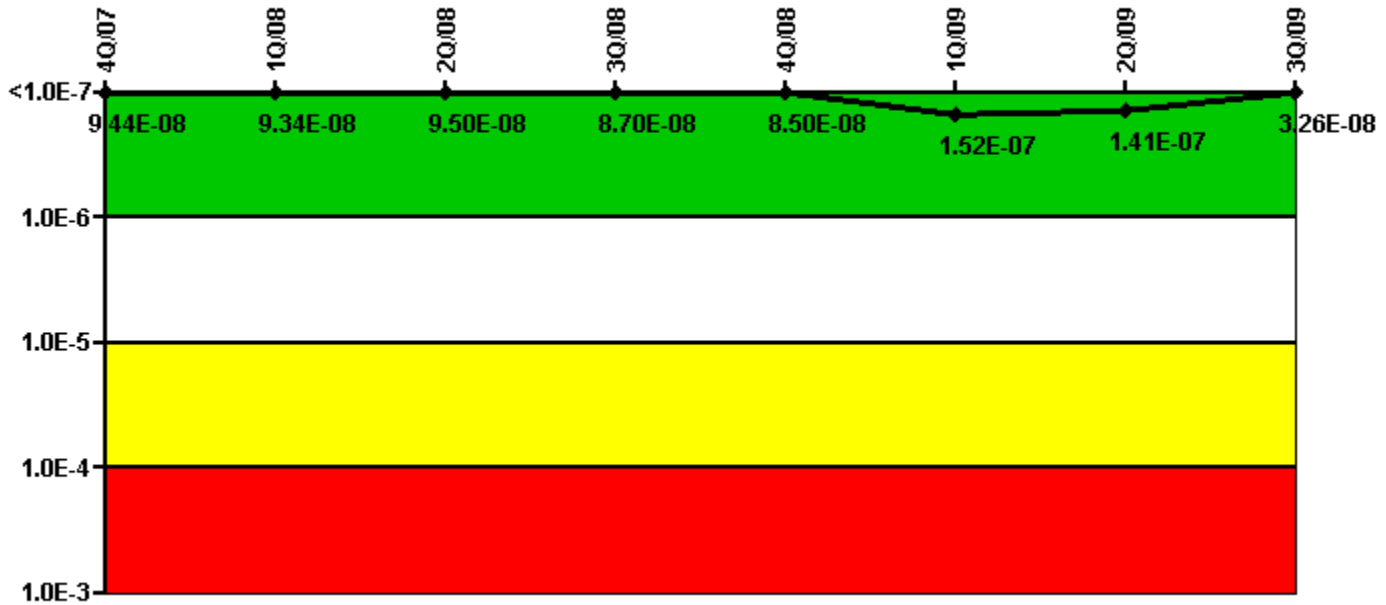
Notes

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 (Δ CDF)	3.30E-08	6.20E-08	4.50E-08	4.80E-08	3.10E-08	3.10E-08	2.30E-08	3.80E-09
URI (Δ CDF)	-7.60E-07	-7.70E-07	-7.80E-07	-7.80E-07	-7.90E-07	-7.80E-07	-7.80E-07	-2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.27E-07	-7.08E-07	-7.35E-07	-7.32E-07	-7.59E-07	-7.49E-07	-7.57E-07	-1.96E-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

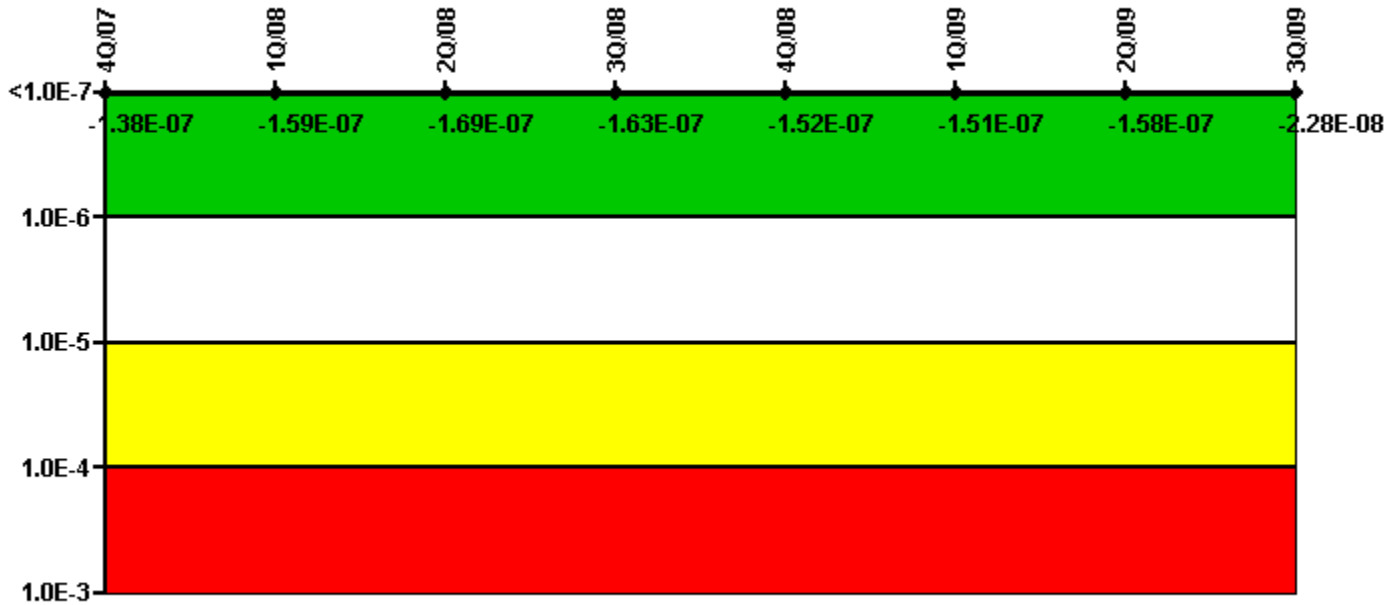
Notes

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)	7.40E-09	7.40E-09	1.30E-08	1.30E-08	1.20E-08	1.20E-08	1.10E-08	2.60E-09
URI (Δ CDF)	8.70E-08	8.60E-08	8.20E-08	7.40E-08	7.30E-08	1.40E-07	1.30E-07	3.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.44E-08	9.34E-08	9.50E-08	8.70E-08	8.50E-08	1.52E-07	1.41E-07	3.26E-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

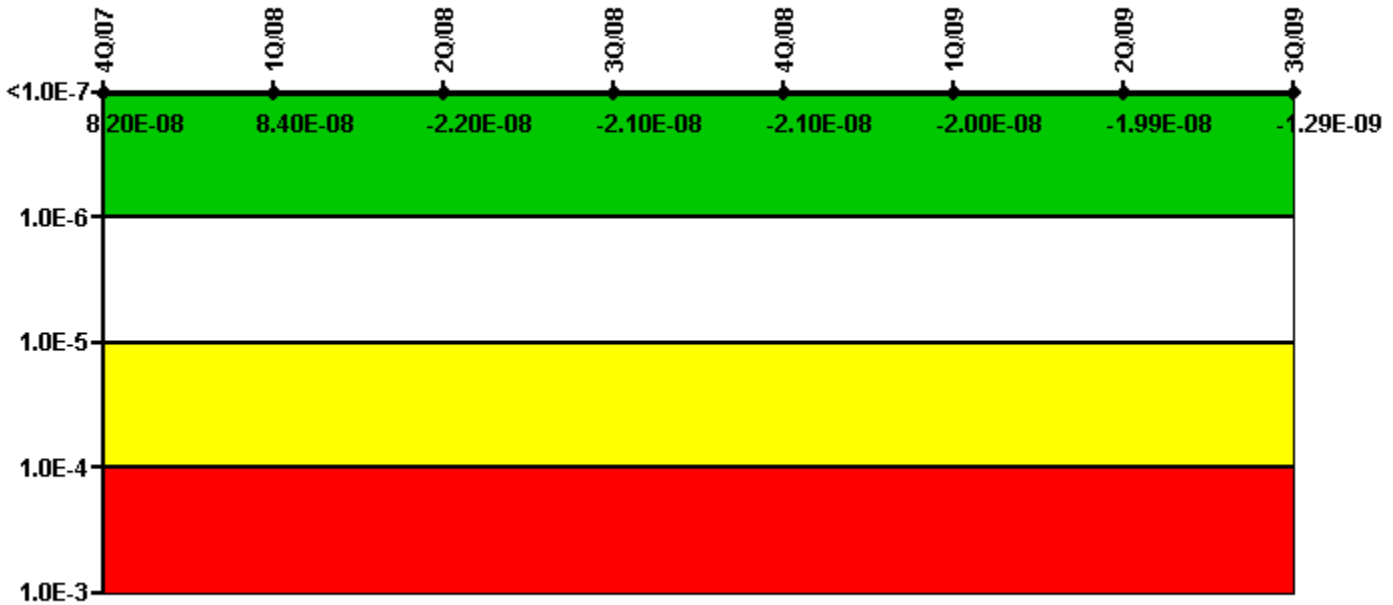
Notes

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)	-2.80E-08	-4.90E-08	-4.90E-08	-4.30E-08	-3.20E-08	-3.10E-08	-2.80E-08	-3.80E-09
URI (Δ CDF)	-1.10E-07	-1.10E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.30E-07	-1.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.38E-07	-1.59E-07	-1.69E-07	-1.63E-07	-1.52E-07	-1.51E-07	-1.58E-07	-2.28E-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, Residual Heat Removal System



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

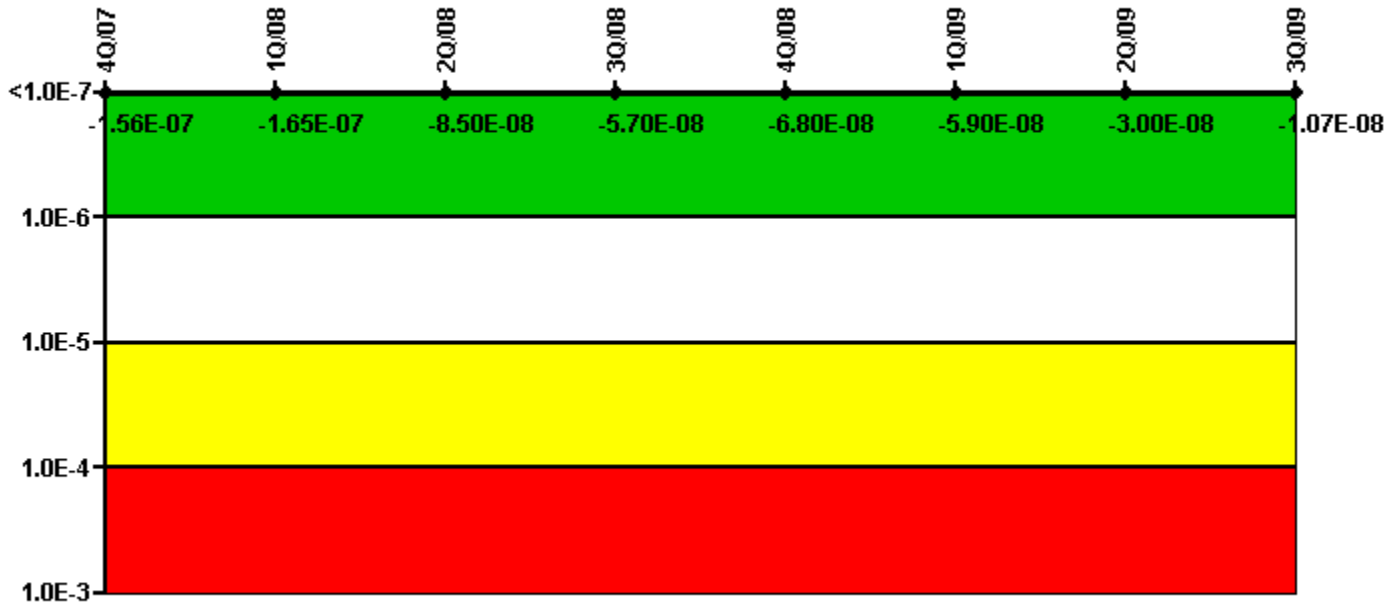
Notes

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)	-5.00E-09	-5.00E-09	-5.00E-09	-5.00E-09	-5.00E-09	-5.00E-09	-4.90E-09	-2.90E-10
URI (Δ CDF)	8.70E-08	8.90E-08	-1.70E-08	-1.60E-08	-1.60E-08	-1.50E-08	-1.50E-08	-1.00E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.20E-08	8.40E-08	-2.20E-08	-2.10E-08	-2.10E-08	-2.00E-08	-1.99E-08	-1.29E-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

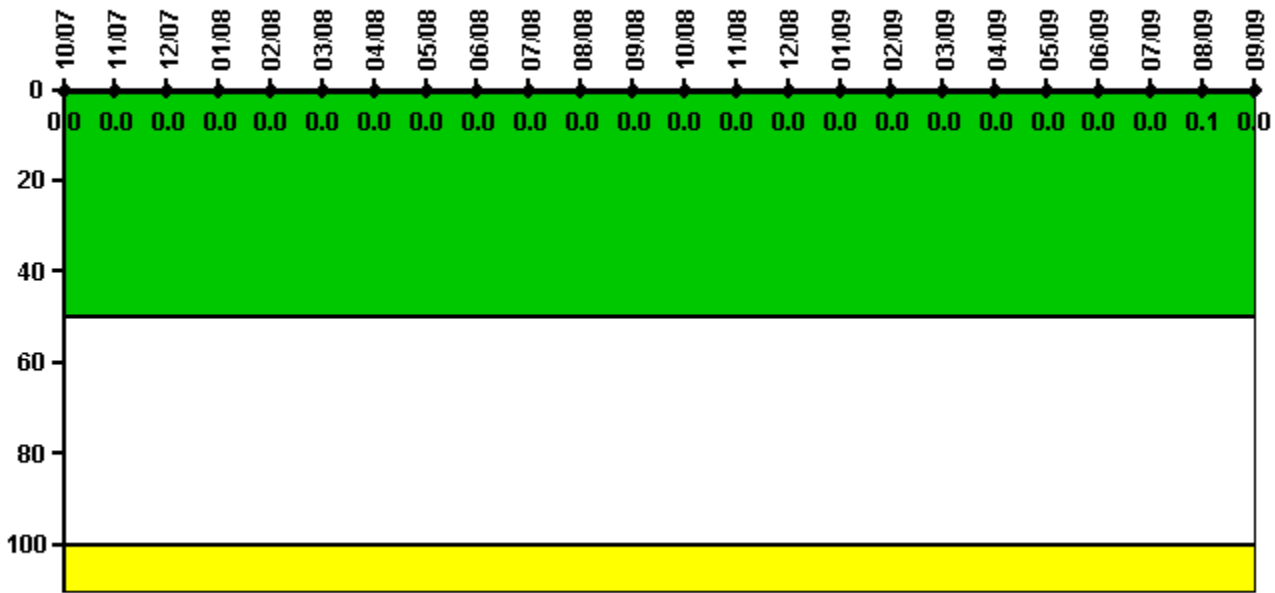
Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (Δ CDF)	-5.90E-09	-1.50E-08	6.50E-08	9.30E-08	8.20E-08	9.10E-08	1.20E-07	9.30E-09
URI (Δ CDF)	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-2.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.56E-07	-1.65E-07	-8.50E-08	-5.70E-08	-6.80E-08	-5.90E-08	-3.00E-08	-1.07E-08

Licensee Comments:

3Q/09: Changed PRA Parameter(s). PRA parameters were updated to reflect plant changes and PRA model improvements.

Reactor Coolant System Activity



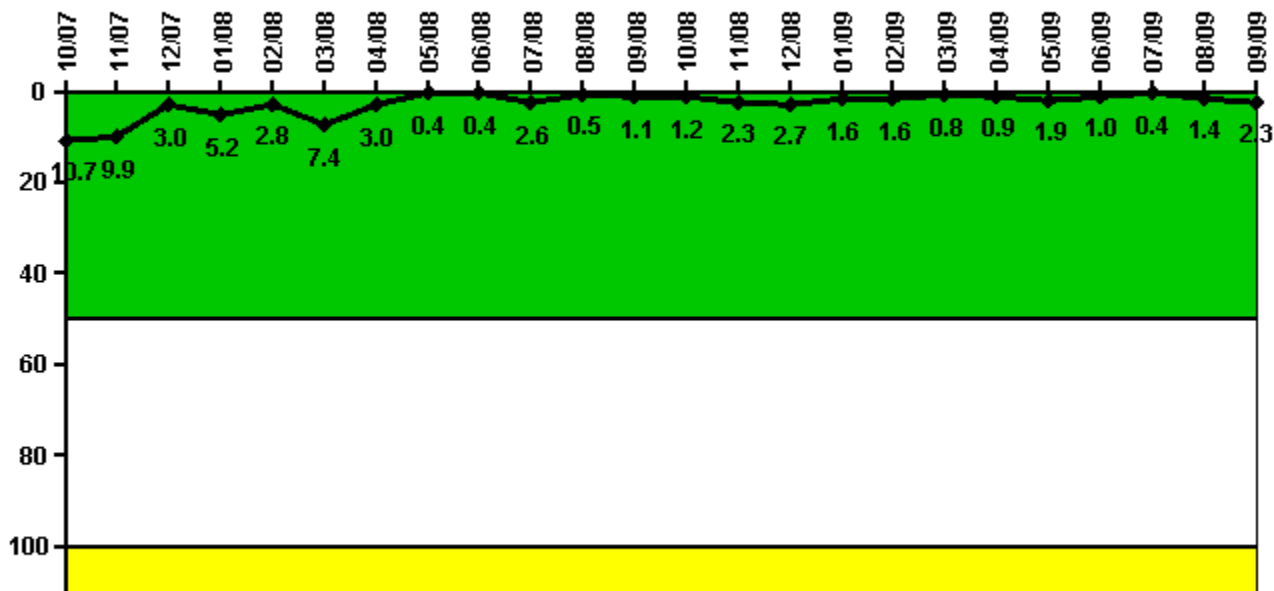
Thresholds: White > 50.0 Yellow > 100.0

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	0.000351	0.000345	0.000397	0.000388	0.000338	0.000415	0.000372	0.000232	0.000330	0.000199	0.000198	0.000168
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
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	0.000192	0.000197	0.000226	0.000237	0.000229	0.000239	0.000256	0.000234	0.000237	0.000327	0.000572	0.000318
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0.1	0

Licensee Comments: none

Reactor Coolant System Leakage



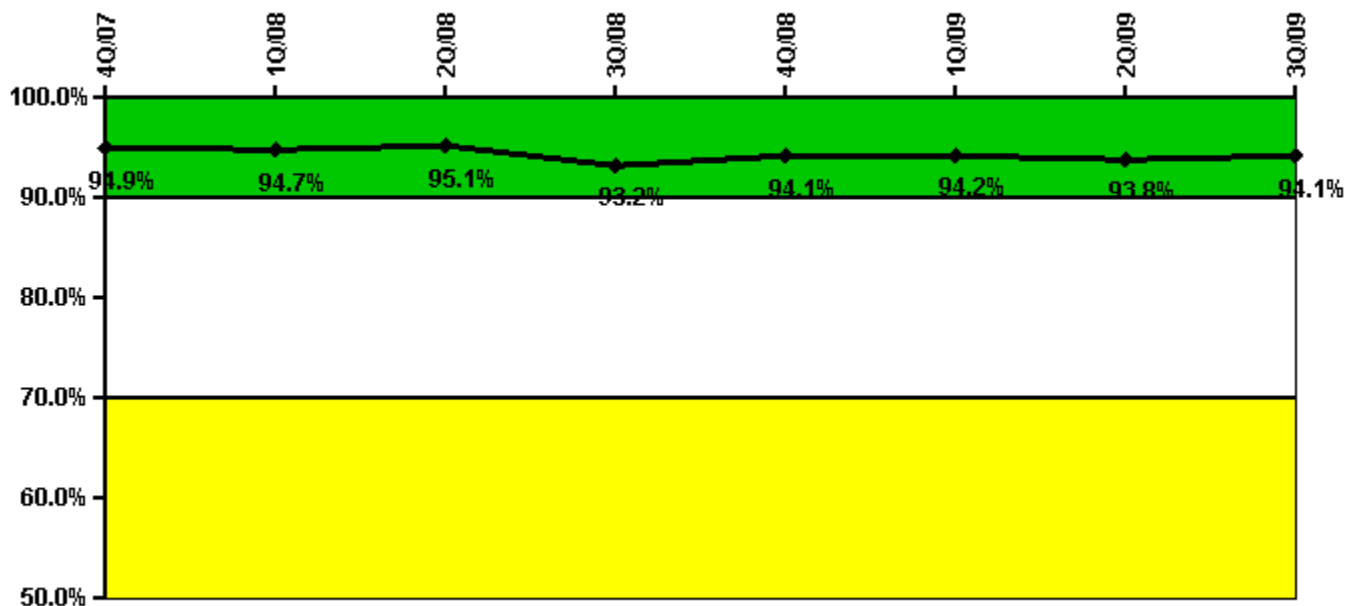
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum leakage	1.070	0.990	0.300	0.520	0.280	0.740	0.300	0.040	0.040	0.260	0.050	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	10.7	9.9	3.0	5.2	2.8	7.4	3.0	0.4	0.4	2.6	0.5	1.1
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	0.120	0.230	0.270	0.160	0.160	0.080	0.090	0.190	0.100	0.040	0.140	0.230
Technical specification limit	10.0	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	2.3	2.7	1.6	1.6	0.8	0.9	1.9	1.0	0.4	1.4	2.3

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

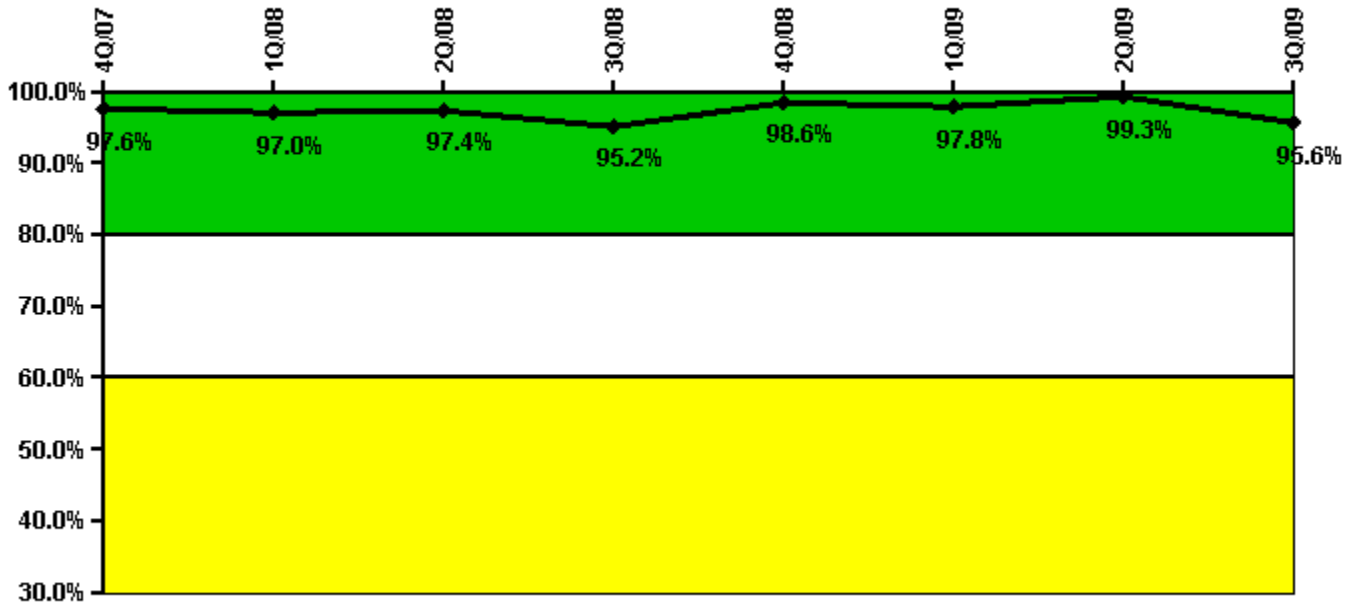
Notes

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



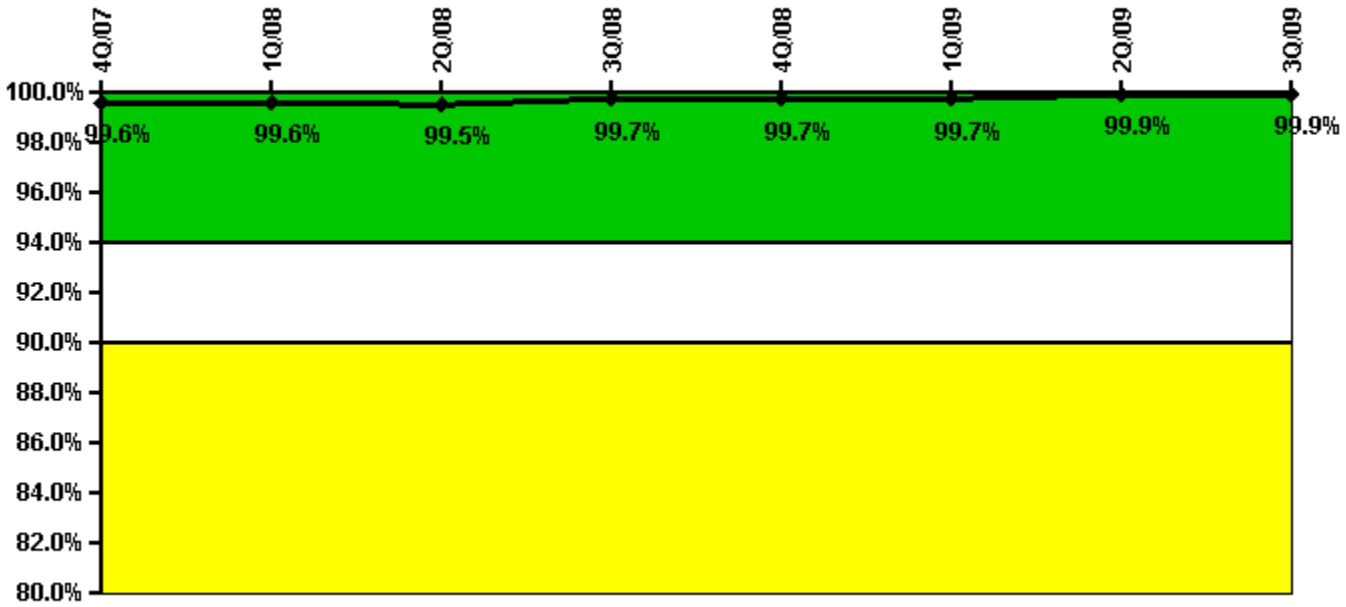
Thresholds: White < 80.0% Yellow < 60.0%

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



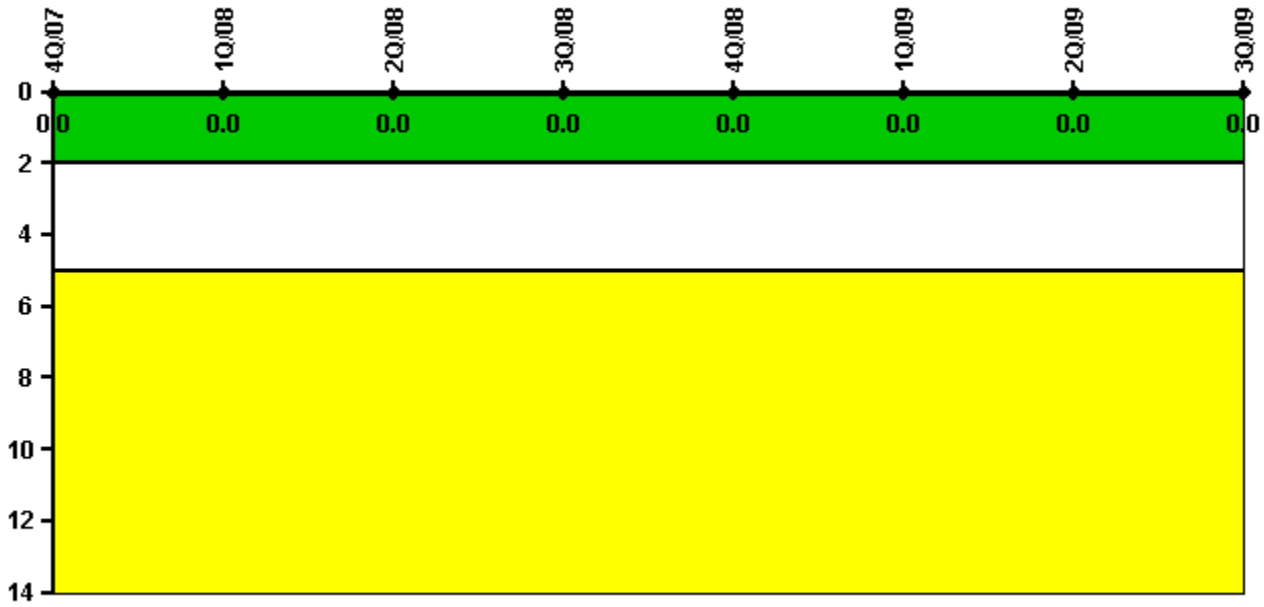
Thresholds: White < 94.0% Yellow < 90.0%

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



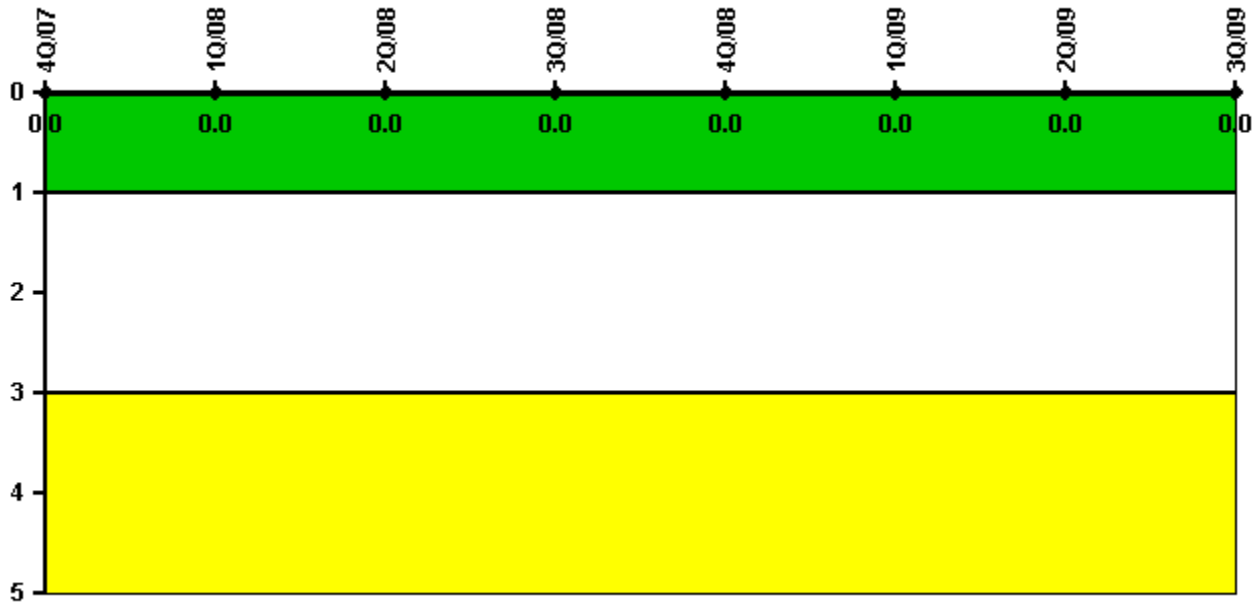
Thresholds: White > 2.0 Yellow > 5.0

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

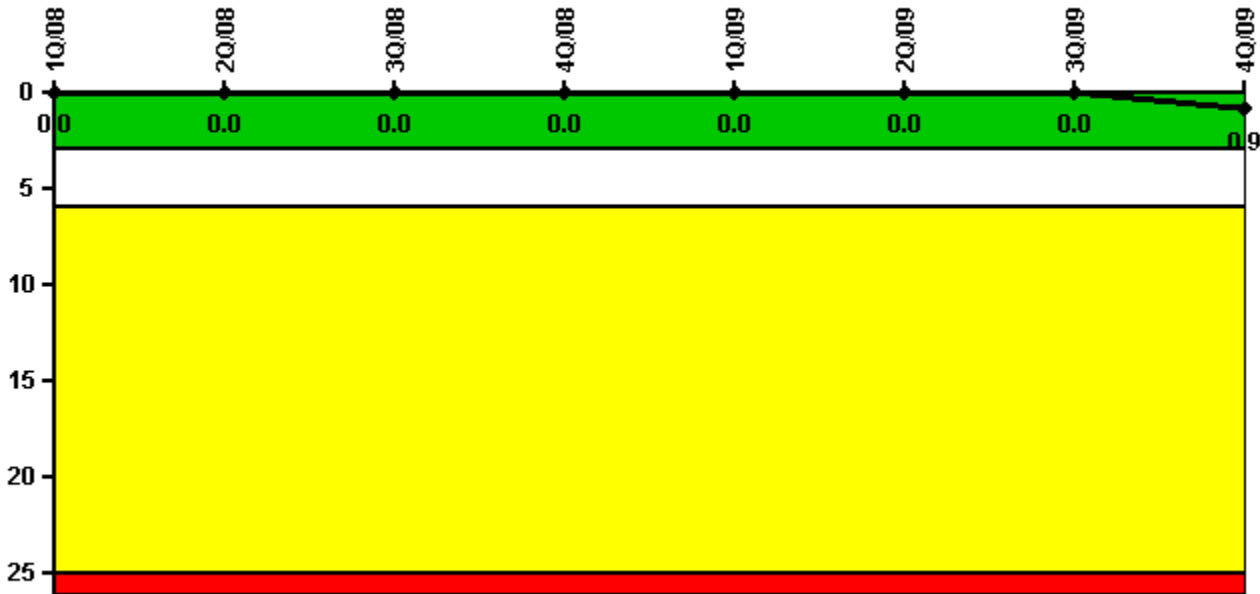
[Security](#) information not publicly available.

Surry 2

4Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



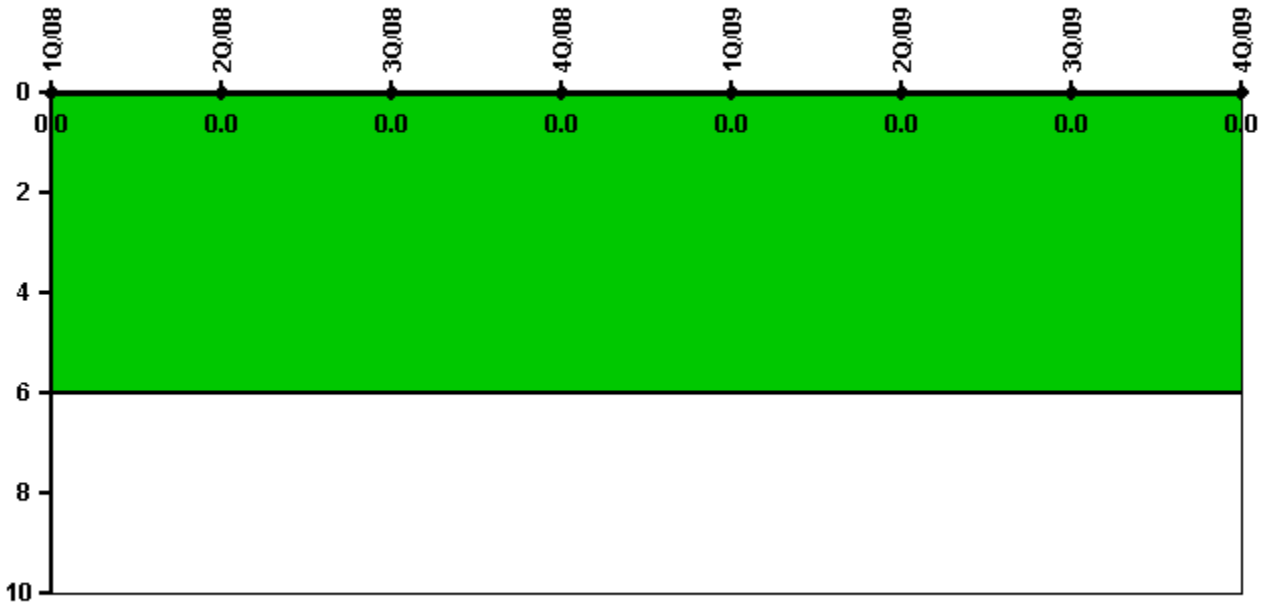
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	2183.0	1622.6	2208.0	2209.0	2159.0	2184.0	2208.0	1520.0
Indicator value	0	0	0	0	0	0	0	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



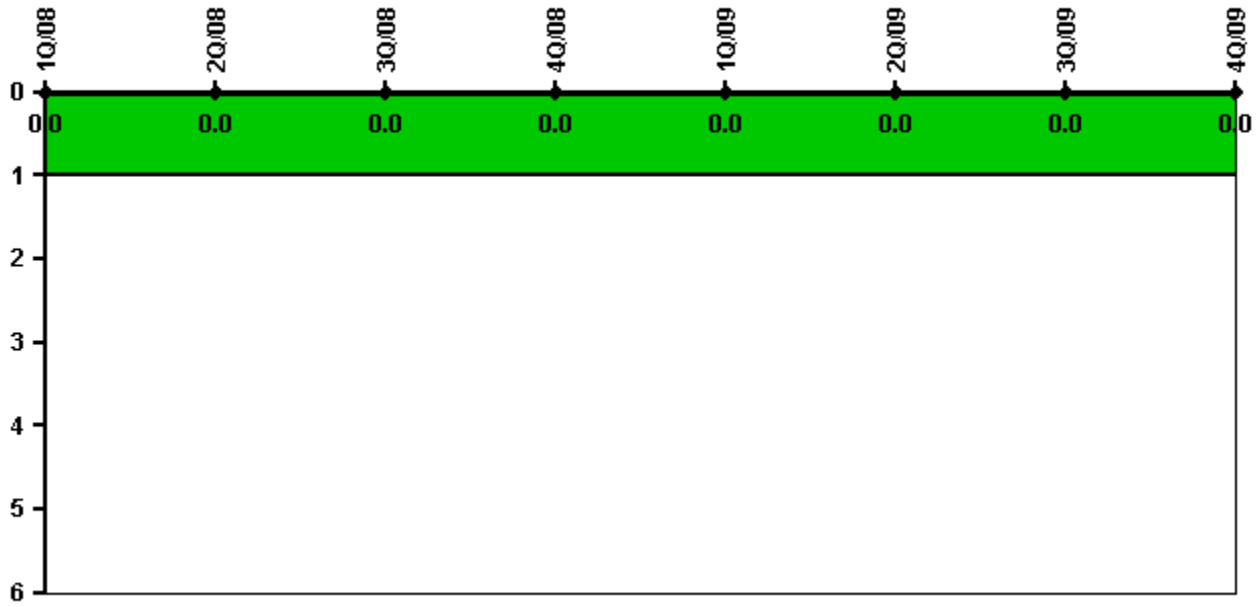
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2183.0	1622.6	2208.0	2209.0	2159.0	2184.0	2208.0	1520.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



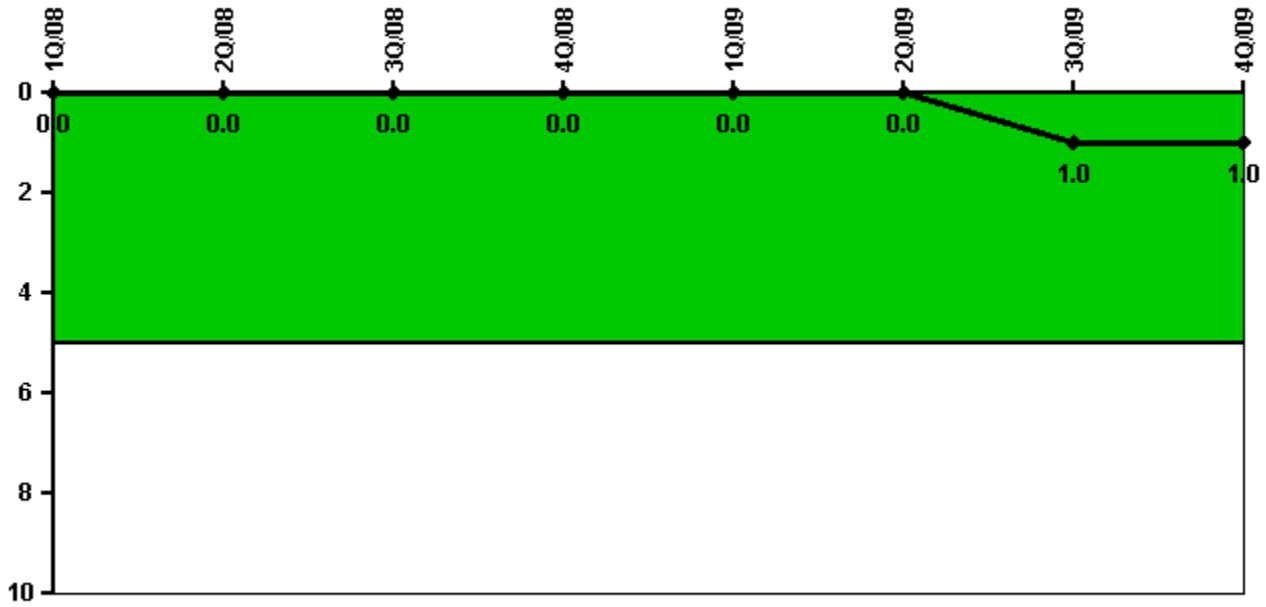
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/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)



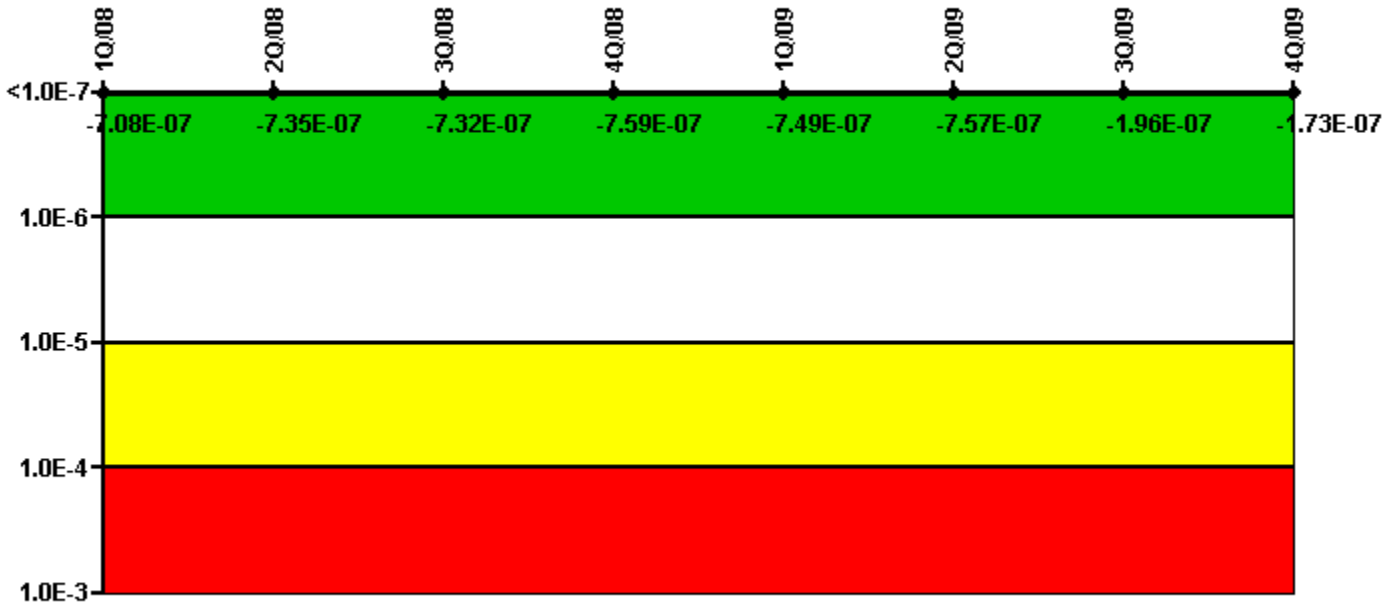
Thresholds: White > 5.0

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

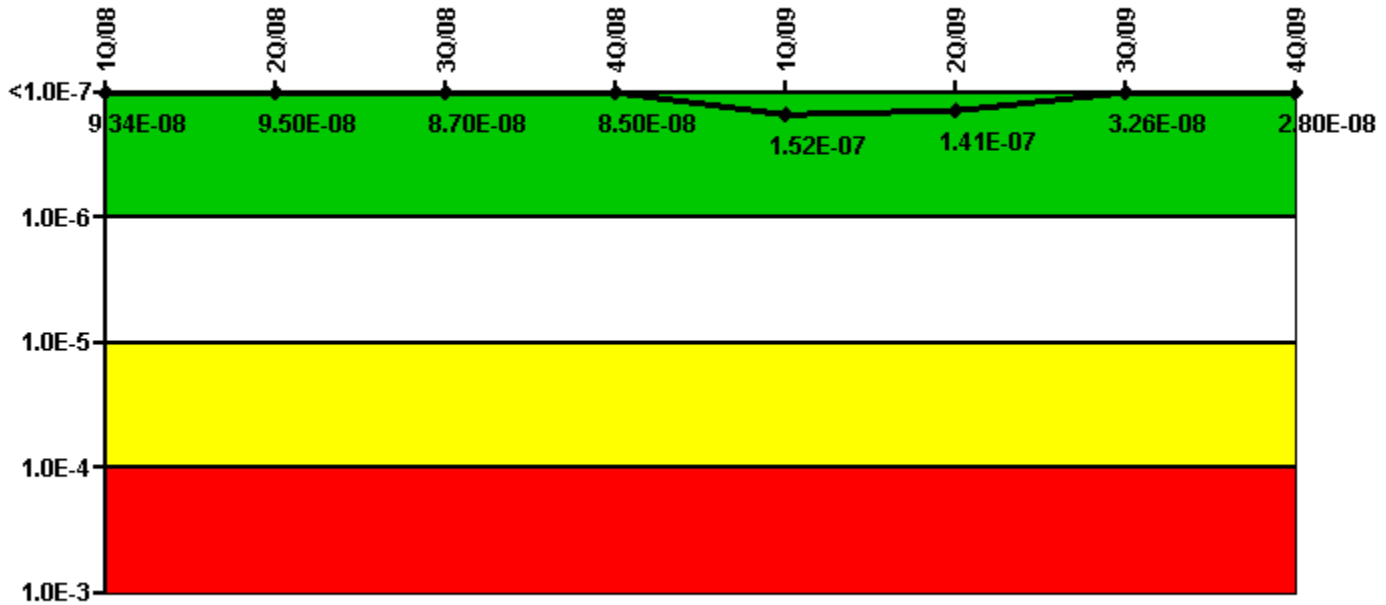
Notes

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 (Δ CDF)	6.20E-08	4.50E-08	4.80E-08	3.10E-08	3.10E-08	2.30E-08	3.80E-09	7.00E-09
URI (Δ CDF)	-7.70E-07	-7.80E-07	-7.80E-07	-7.90E-07	-7.80E-07	-7.80E-07	-2.00E-07	-1.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.08E-07	-7.35E-07	-7.32E-07	-7.59E-07	-7.49E-07	-7.57E-07	-1.96E-07	-1.73E-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

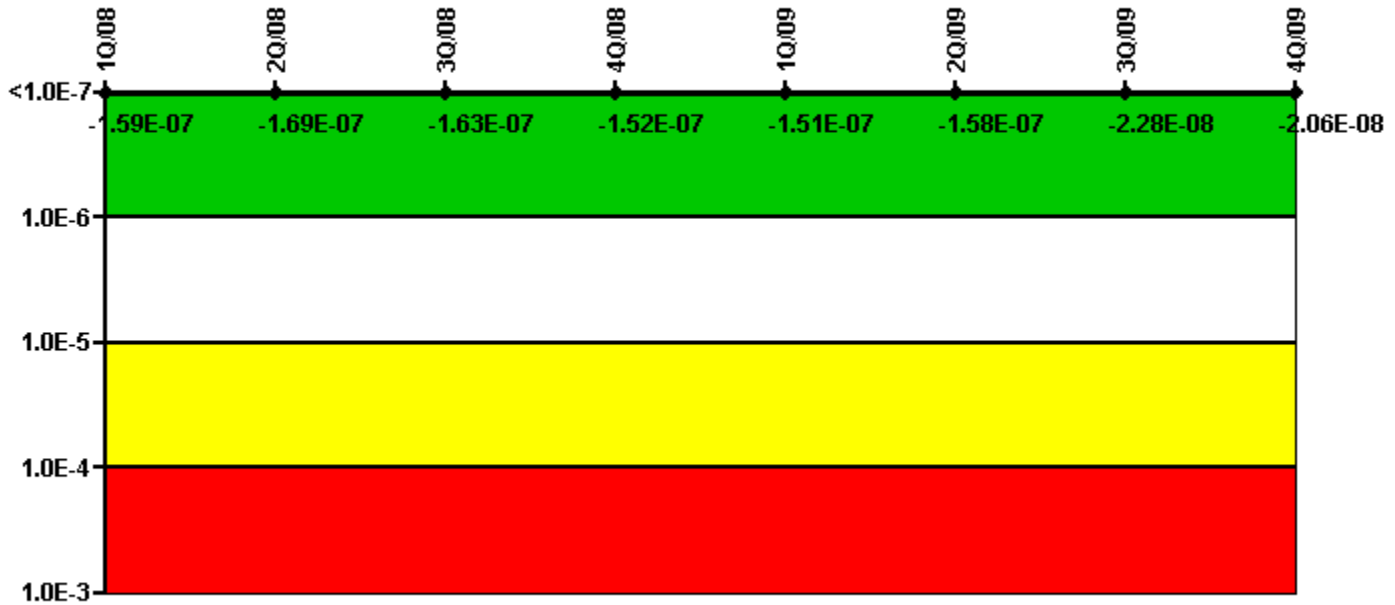
Notes

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 (Δ CDF)	7.40E-09	1.30E-08	1.30E-08	1.20E-08	1.20E-08	1.10E-08	2.60E-09	-4.60E-11
URI (Δ CDF)	8.60E-08	8.20E-08	7.40E-08	7.30E-08	1.40E-07	1.30E-07	3.00E-08	2.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.34E-08	9.50E-08	8.70E-08	8.50E-08	1.52E-07	1.41E-07	3.26E-08	2.80E-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

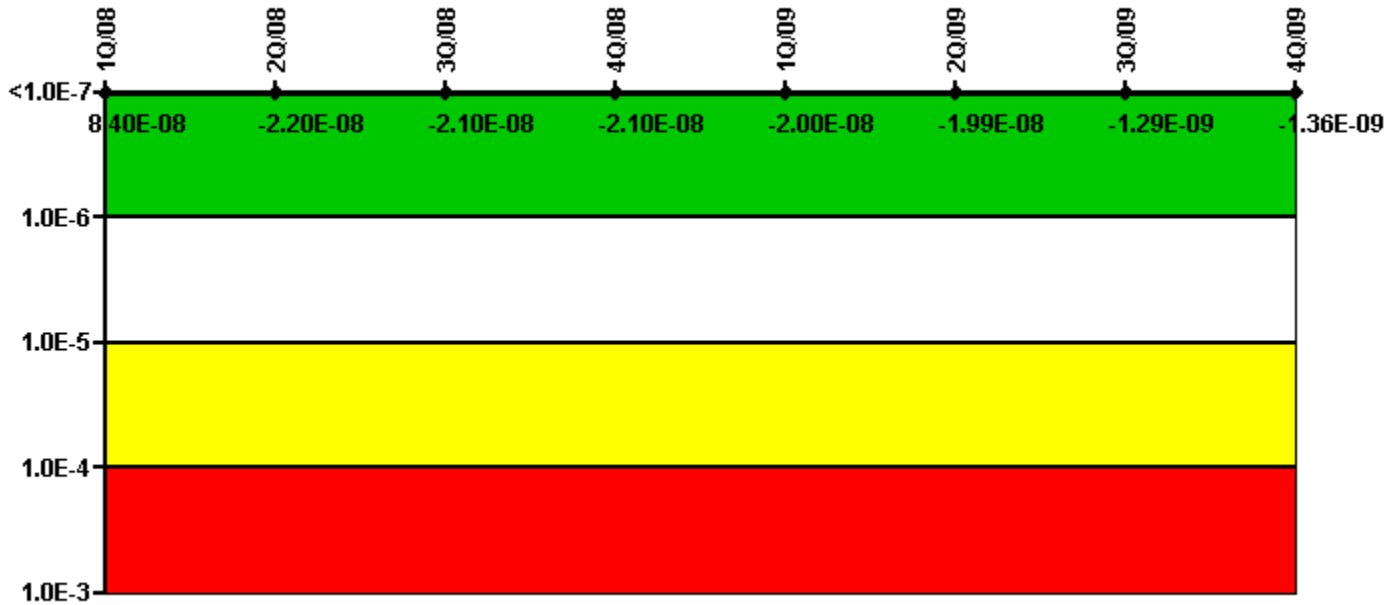
Notes

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)	-4.90E-08	-4.90E-08	-4.30E-08	-3.20E-08	-3.10E-08	-2.80E-08	-3.80E-09	-3.60E-09
URI (Δ CDF)	-1.10E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.30E-07	-1.90E-08	-1.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.59E-07	-1.69E-07	-1.63E-07	-1.52E-07	-1.51E-07	-1.58E-07	-2.28E-08	-2.06E-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, Residual Heat Removal System



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

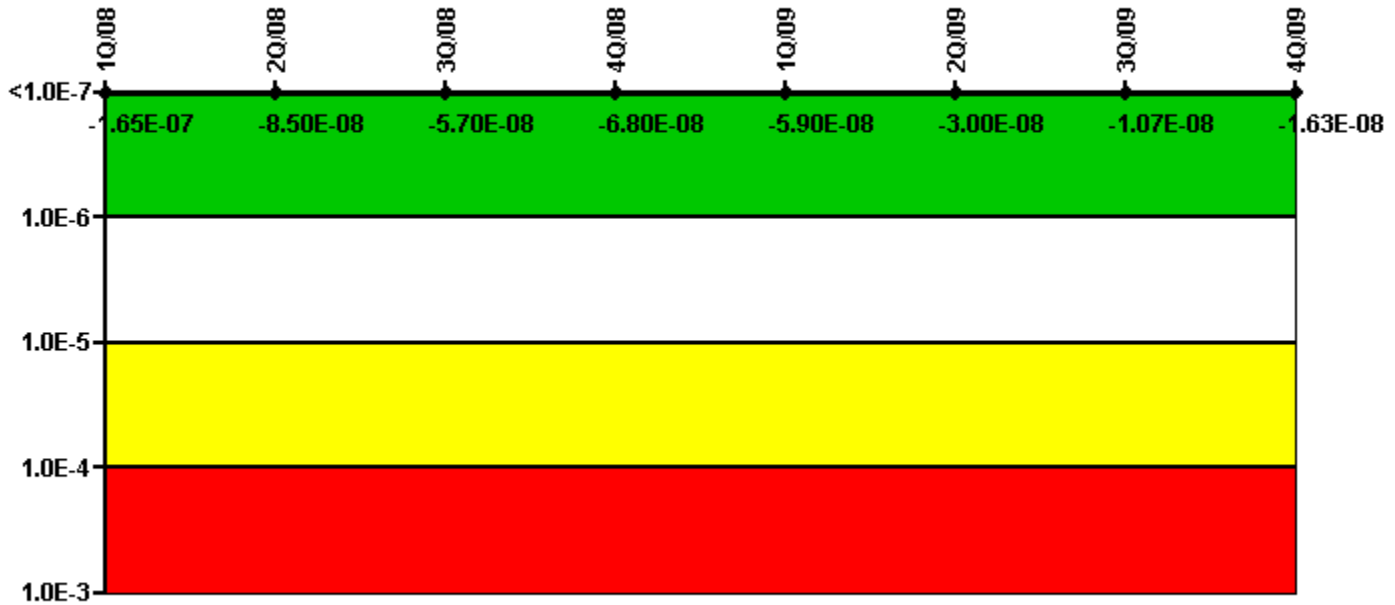
Notes

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)	-5.00E-09	-5.00E-09	-5.00E-09	-5.00E-09	-5.00E-09	-4.90E-09	-2.90E-10	-2.60E-10
URI (Δ CDF)	8.90E-08	-1.70E-08	-1.60E-08	-1.60E-08	-1.50E-08	-1.50E-08	-1.00E-09	-1.10E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.40E-08	-2.20E-08	-2.10E-08	-2.10E-08	-2.00E-08	-1.99E-08	-1.29E-09	-1.36E-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

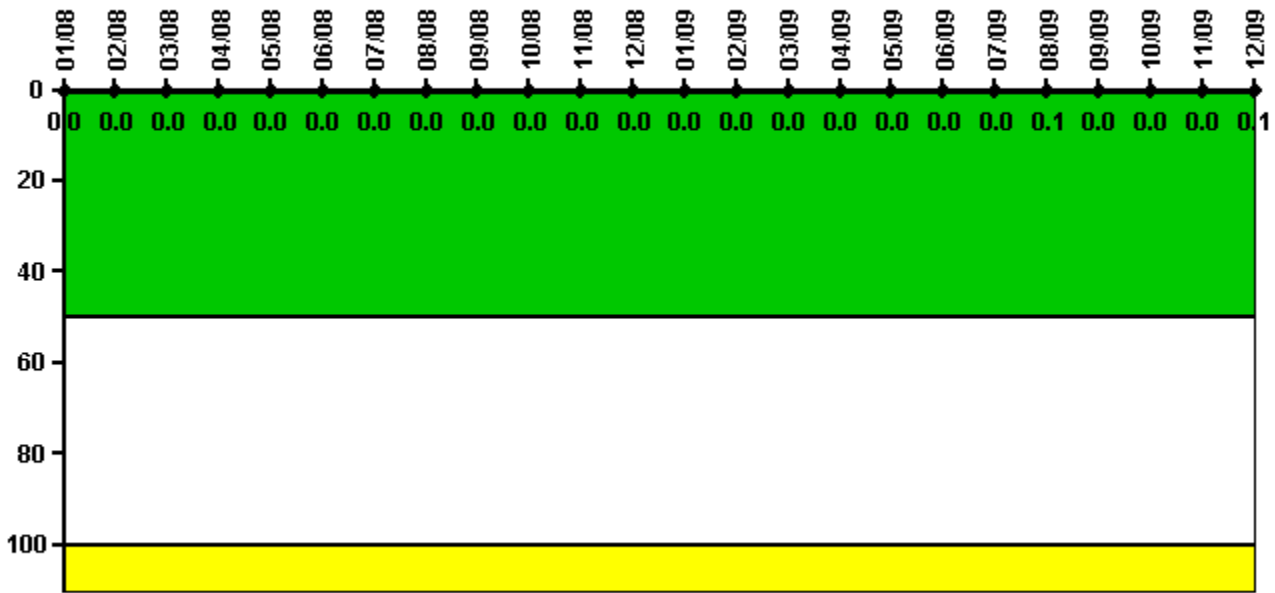
Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	-1.50E-08	6.50E-08	9.30E-08	8.20E-08	9.10E-08	1.20E-07	9.30E-09	3.70E-09
URI (Δ CDF)	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-2.00E-08	-2.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.65E-07	-8.50E-08	-5.70E-08	-6.80E-08	-5.90E-08	-3.00E-08	-1.07E-08	-1.63E-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



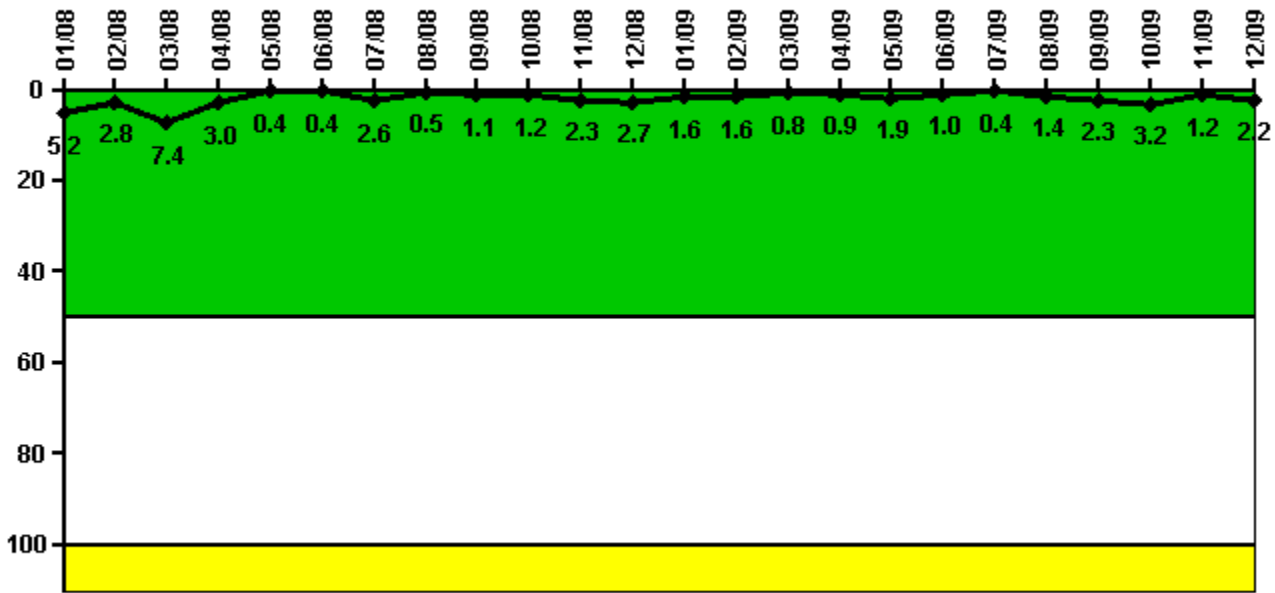
Thresholds: White > 50.0 Yellow > 100.0

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	0.000388	0.000338	0.000415	0.000372	0.000232	0.000330	0.000199	0.000198	0.000168	0.000192	0.000197	0.000226
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum activity	0.000237	0.000229	0.000239	0.000256	0.000234	0.000237	0.000327	0.000572	0.000318	0.000279	0.000037	0.000664
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0.1	0	0	0	0.1

Licensee Comments: none

Reactor Coolant System Leakage



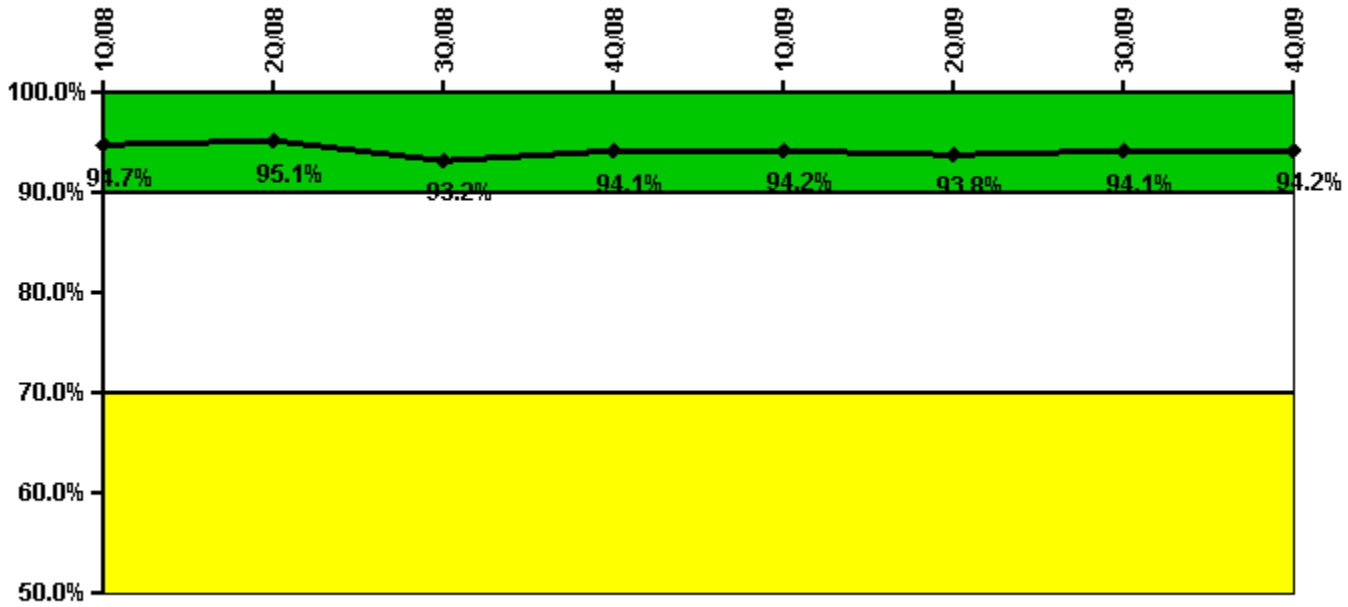
Thresholds: White > 50.0 Yellow > 100.0

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	0.520	0.280	0.740	0.300	0.040	0.040	0.260	0.050	0.110	0.120	0.230	0.270
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	5.2	2.8	7.4	3.0	0.4	0.4	2.6	0.5	1.1	1.2	2.3	2.7
Reactor Coolant System Leakage	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum leakage	0.160	0.160	0.080	0.090	0.190	0.100	0.040	0.140	0.230	0.320	0.120	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	1.6	1.6	0.8	0.9	1.9	1.0	0.4	1.4	2.3	3.2	1.2	2.2

Licensee Comments: none

Drill/Exercise Performance



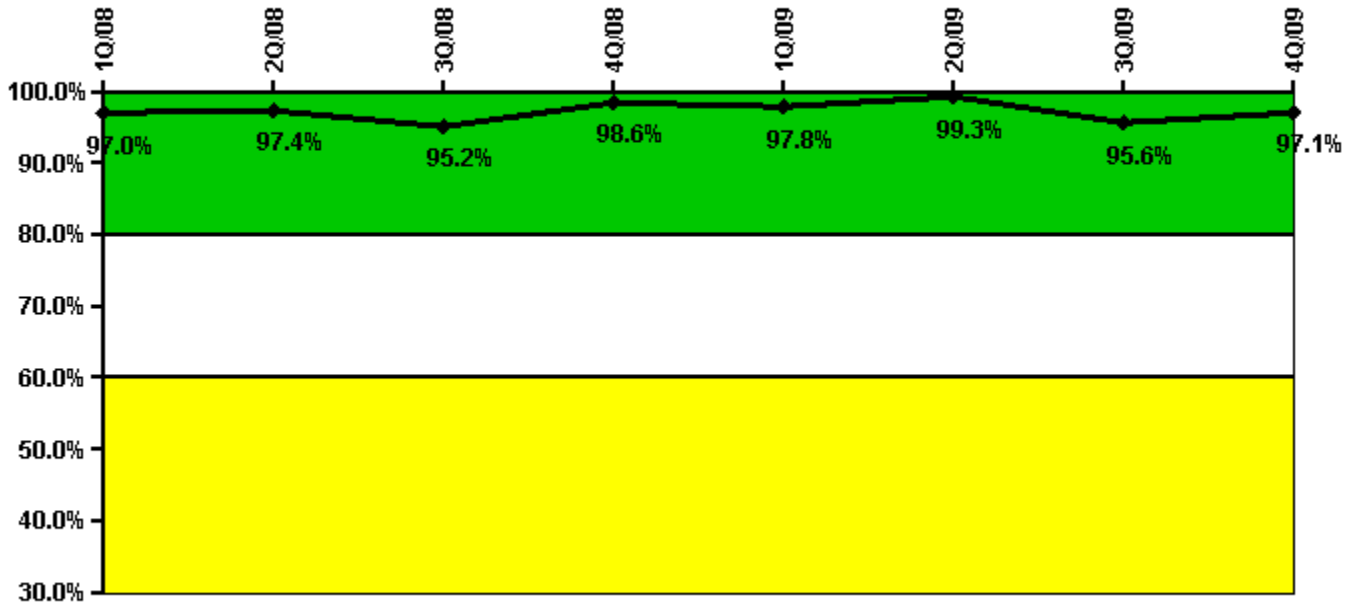
Thresholds: White < 90.0% Yellow < 70.0%

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



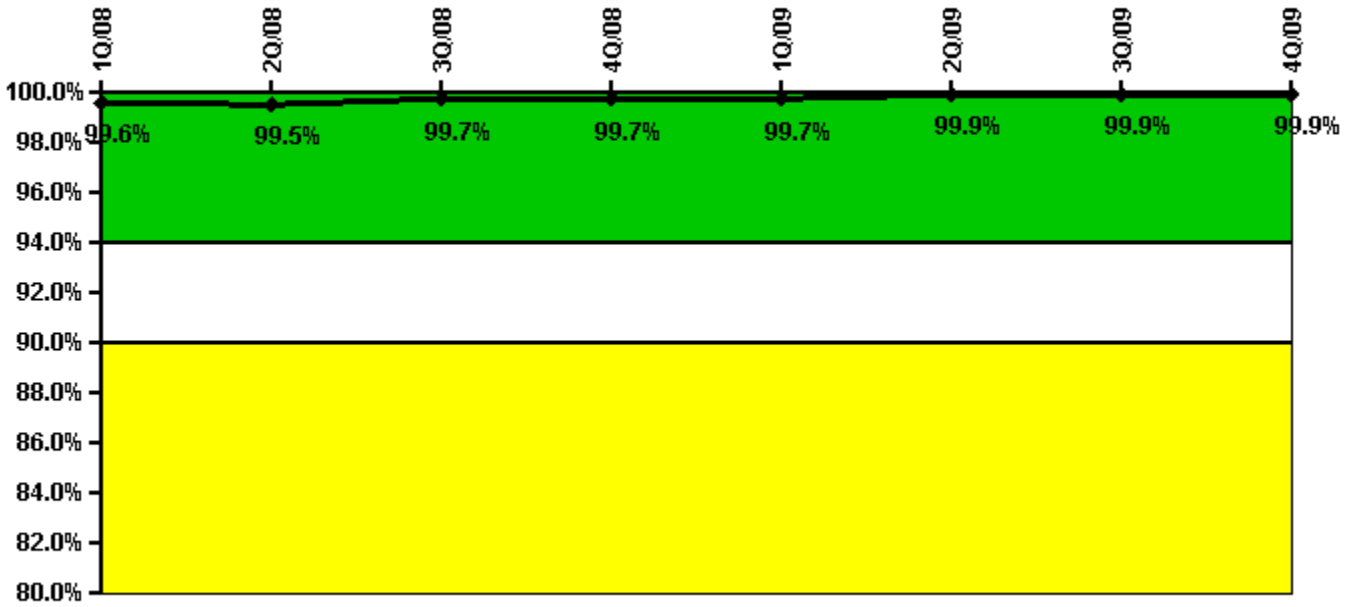
Thresholds: White < 80.0% Yellow < 60.0%

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



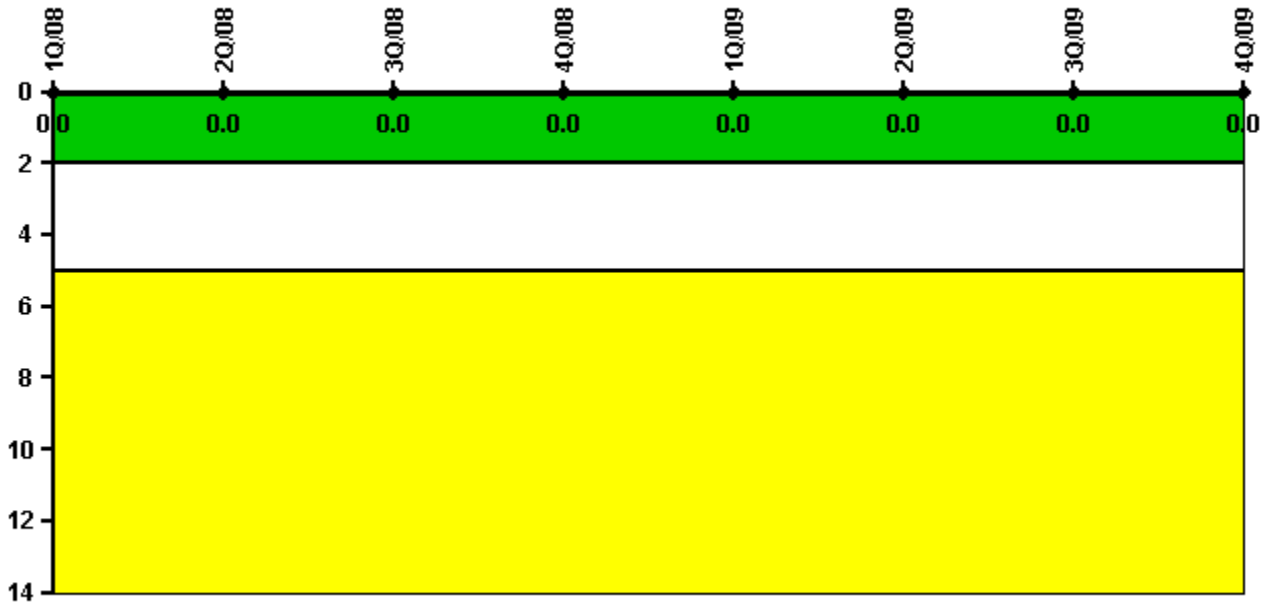
Thresholds: White < 94.0% Yellow < 90.0%

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



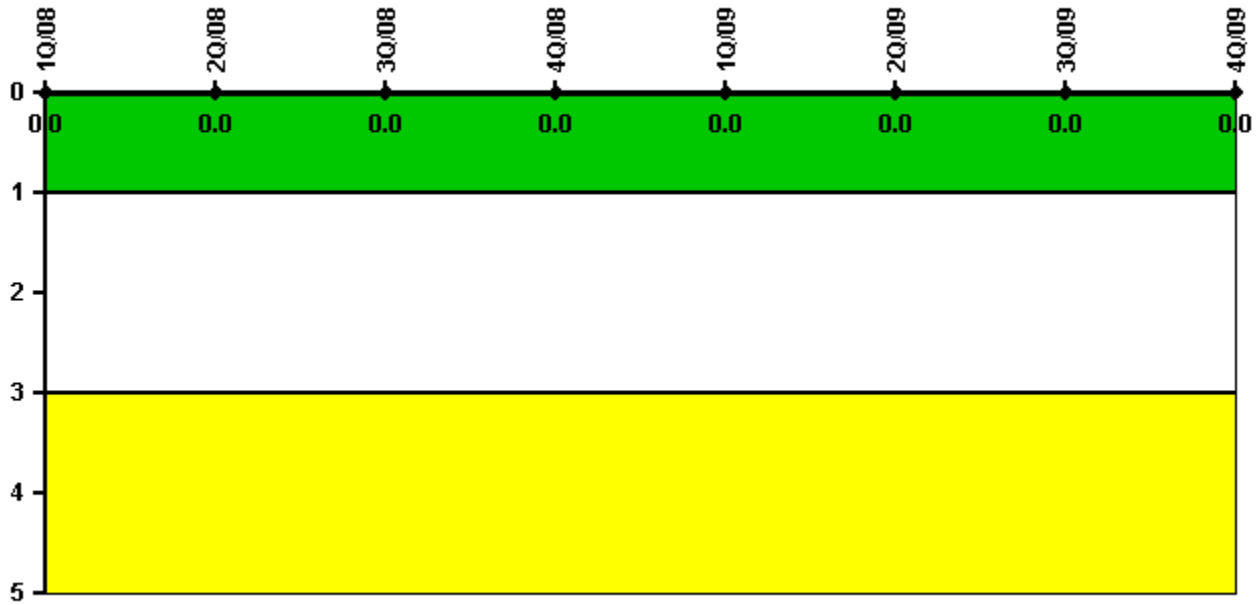
Thresholds: White > 2.0 Yellow > 5.0

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

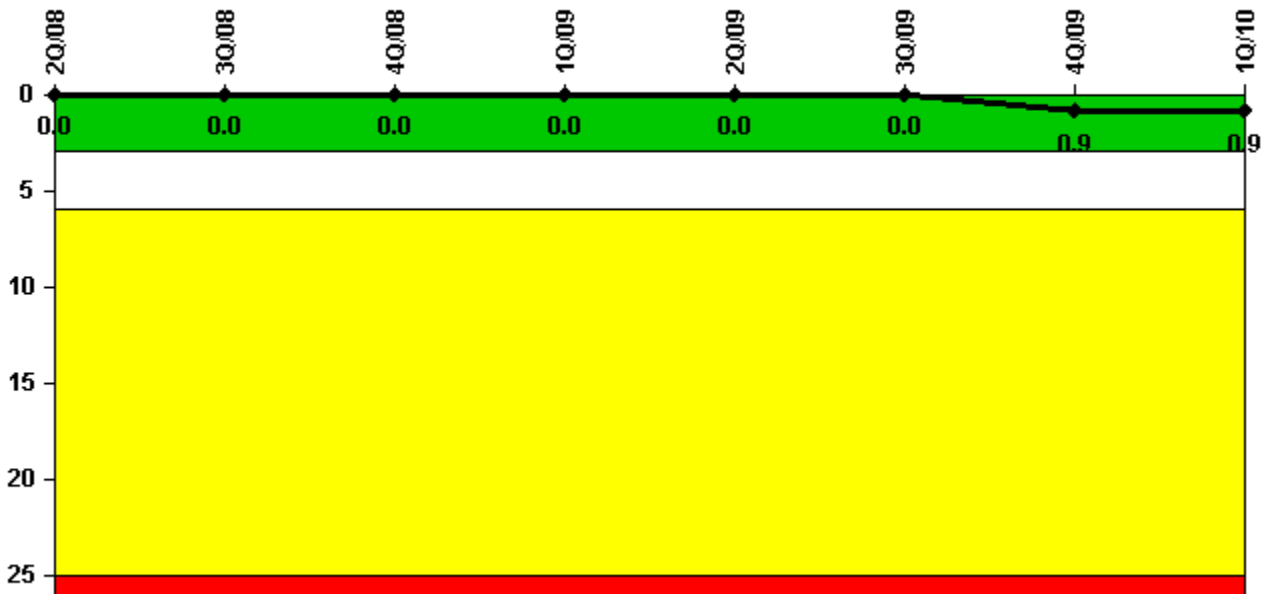
[Security](#) information not publicly available.

Surry 2

1Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



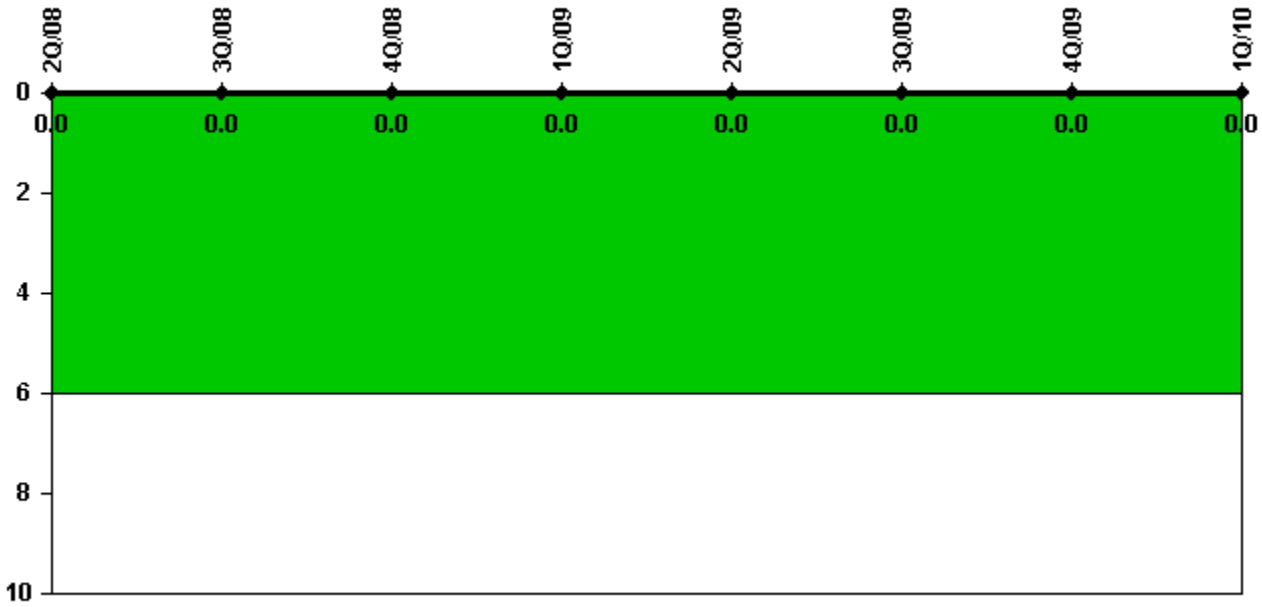
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	1622.6	2208.0	2209.0	2159.0	2184.0	2208.0	1520.0	2159.0
Indicator value	0	0	0	0	0	0	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



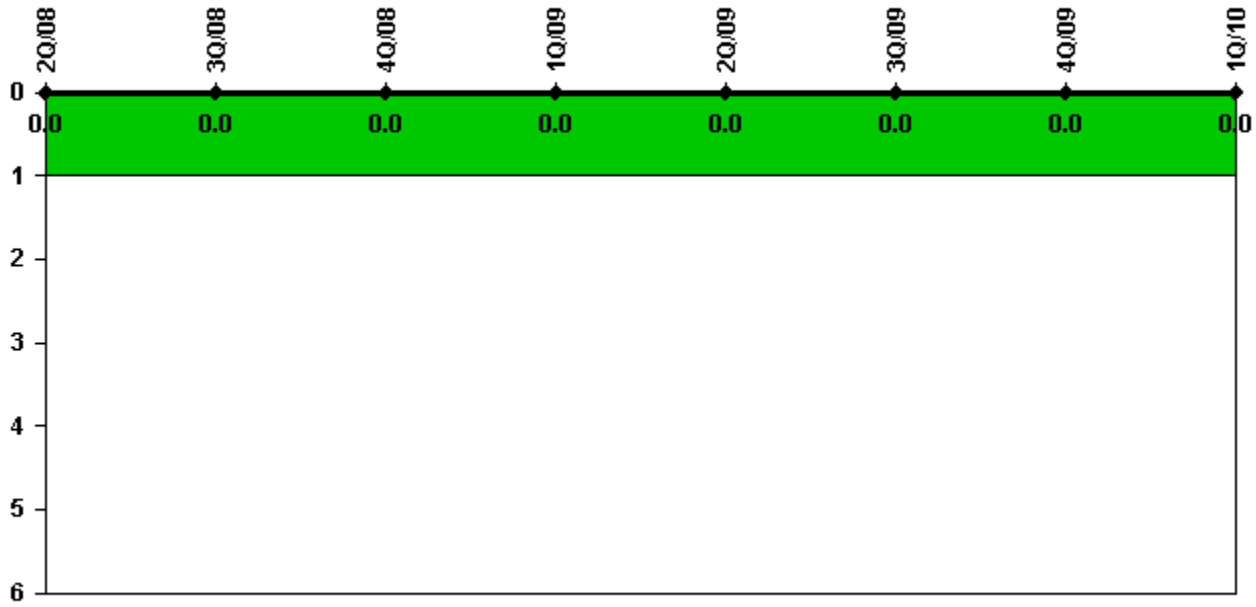
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1622.6	2208.0	2209.0	2159.0	2184.0	2208.0	1520.0	2159.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



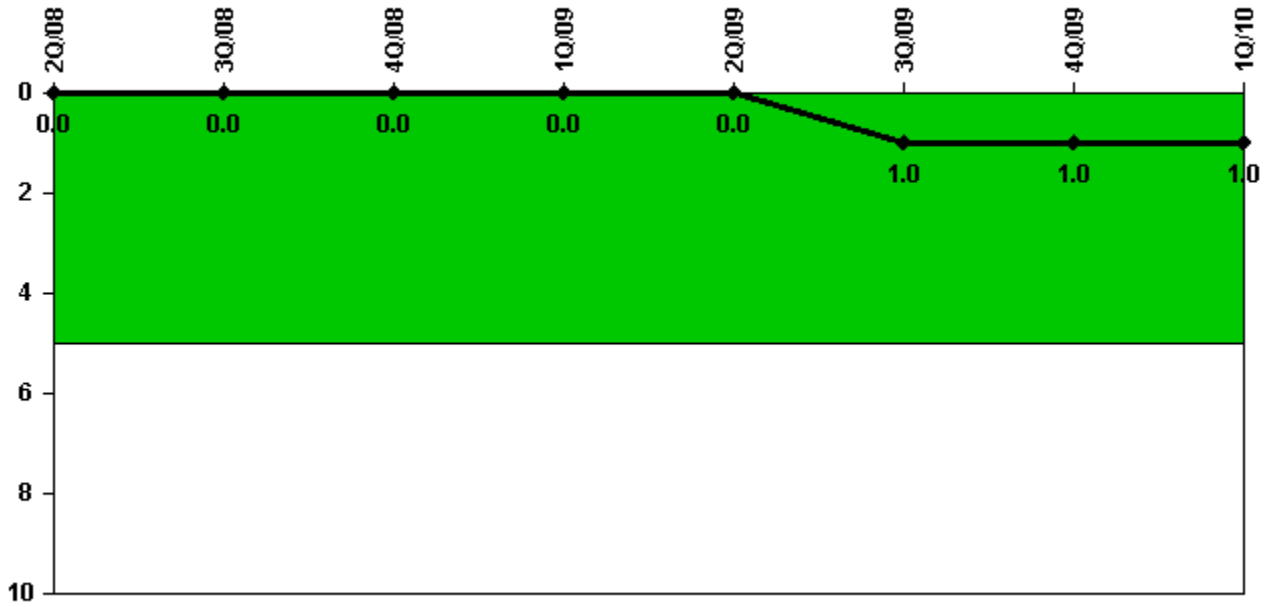
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/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)



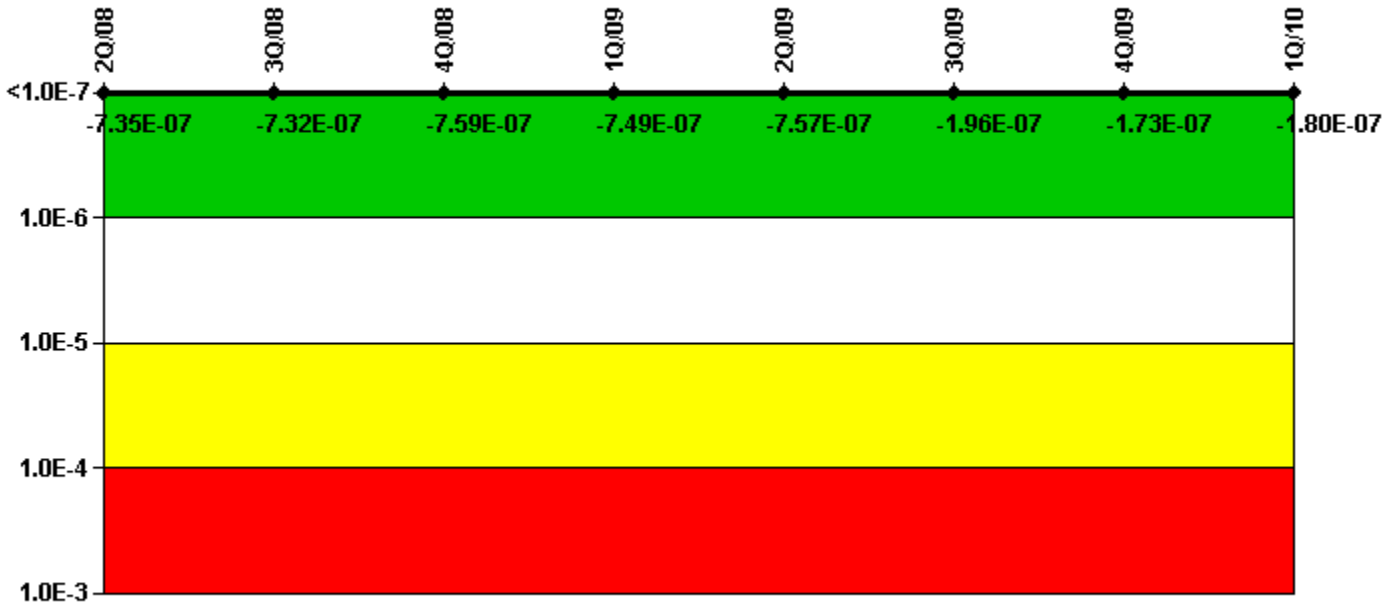
Thresholds: White > 5.0

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



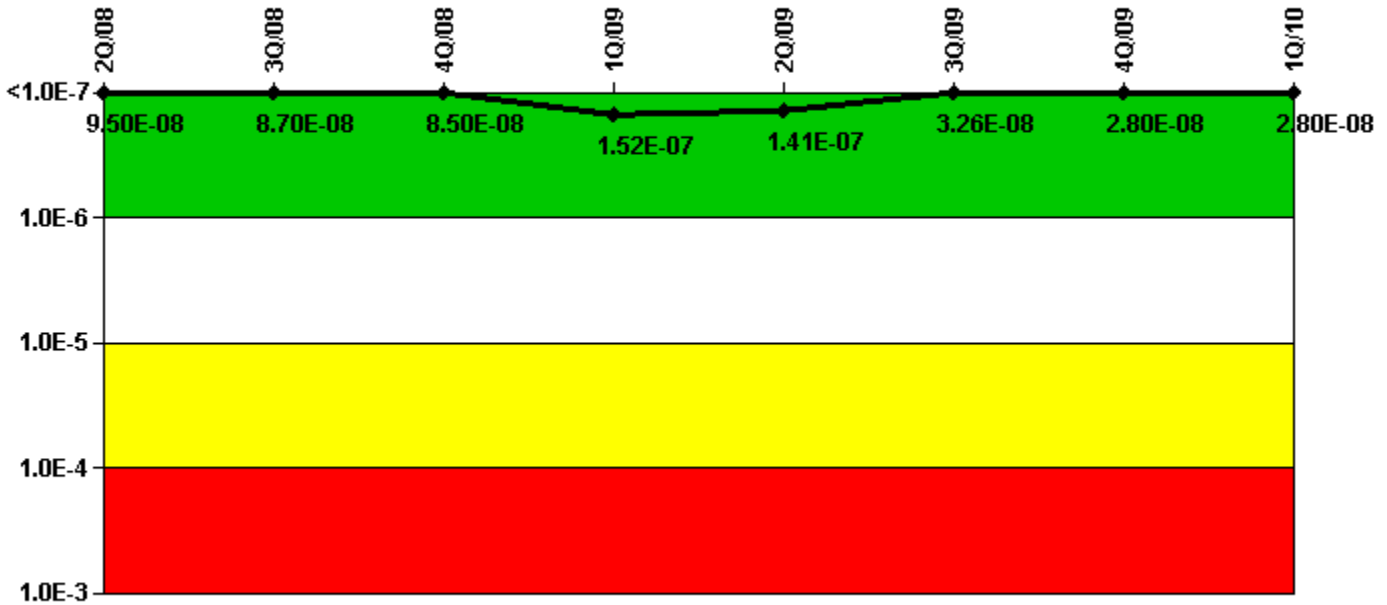
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	4.50E-08	4.80E-08	3.10E-08	3.10E-08	2.30E-08	3.80E-09	7.00E-09	6.61E-09
URI (ΔCDF)	-7.80E-07	-7.80E-07	-7.90E-07	-7.80E-07	-7.80E-07	-2.00E-07	-1.80E-07	-1.88E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.35E-07	-7.32E-07	-7.59E-07	-7.49E-07	-7.57E-07	-1.96E-07	-1.73E-07	-1.80E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



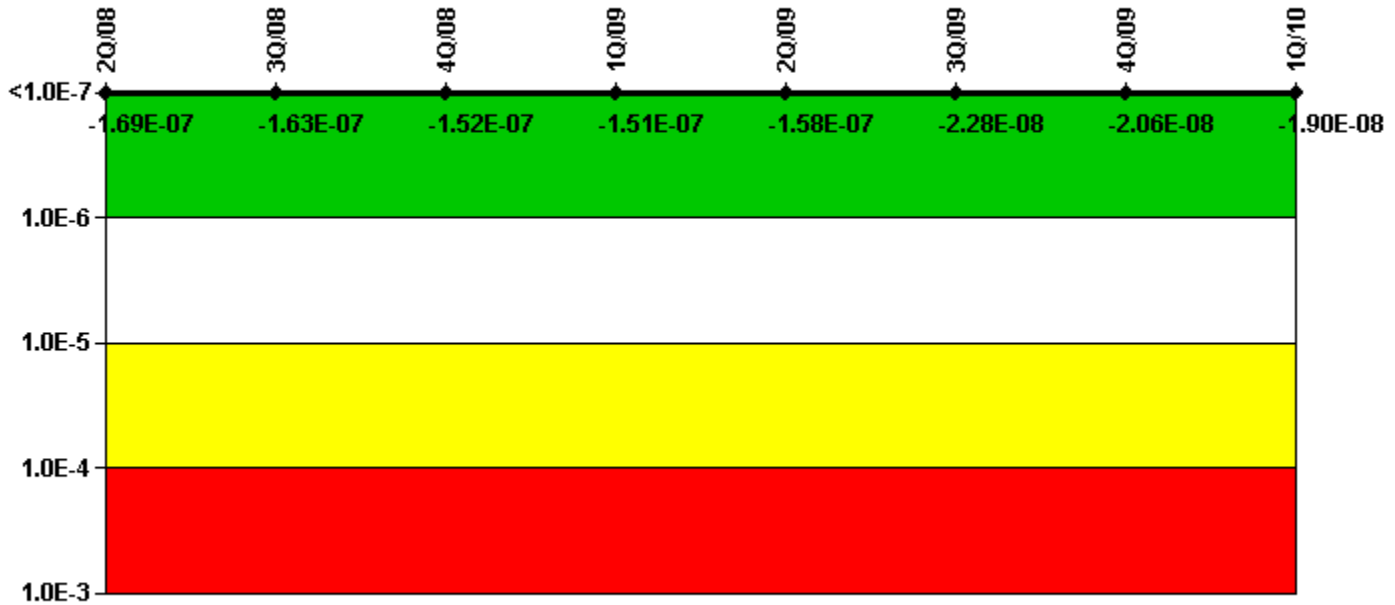
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.30E-08	1.30E-08	1.20E-08	1.20E-08	1.10E-08	2.60E-09	-4.60E-11	5.19E-11
URI (Δ CDF)	8.20E-08	7.40E-08	7.30E-08	1.40E-07	1.30E-07	3.00E-08	2.80E-08	2.78E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.50E-08	8.70E-08	8.50E-08	1.52E-07	1.41E-07	3.26E-08	2.80E-08	2.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



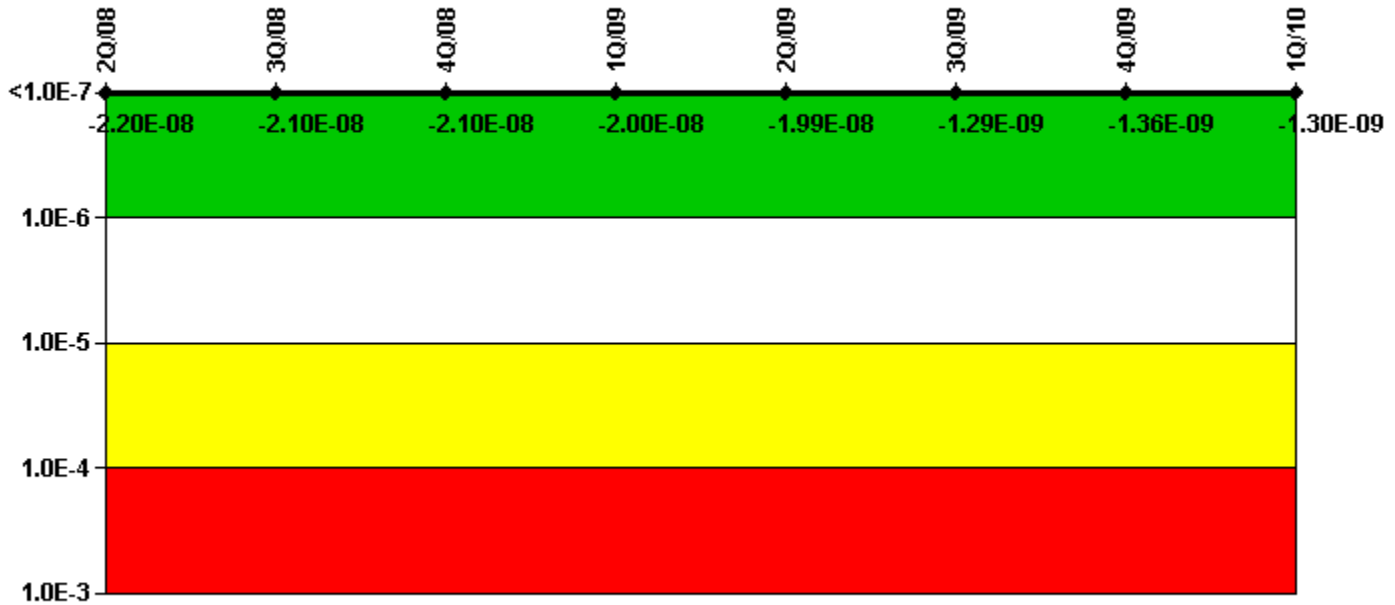
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-4.90E-08	-4.30E-08	-3.20E-08	-3.10E-08	-2.80E-08	-3.80E-09	-3.60E-09	-3.59E-09
URI (Δ CDF)	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.30E-07	-1.90E-08	-1.70E-08	-1.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.69E-07	-1.63E-07	-1.52E-07	-1.51E-07	-1.58E-07	-2.28E-08	-2.06E-08	-1.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-5.00E-09	-5.00E-09	-5.00E-09	-5.00E-09	-4.90E-09	-2.90E-10	-2.60E-10	-2.58E-10
URI (Δ CDF)	-1.70E-08	-1.60E-08	-1.60E-08	-1.50E-08	-1.50E-08	-1.00E-09	-1.10E-09	-1.04E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-08	-2.10E-08	-2.10E-08	-2.00E-08	-1.99E-08	-1.29E-09	-1.36E-09	-1.30E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



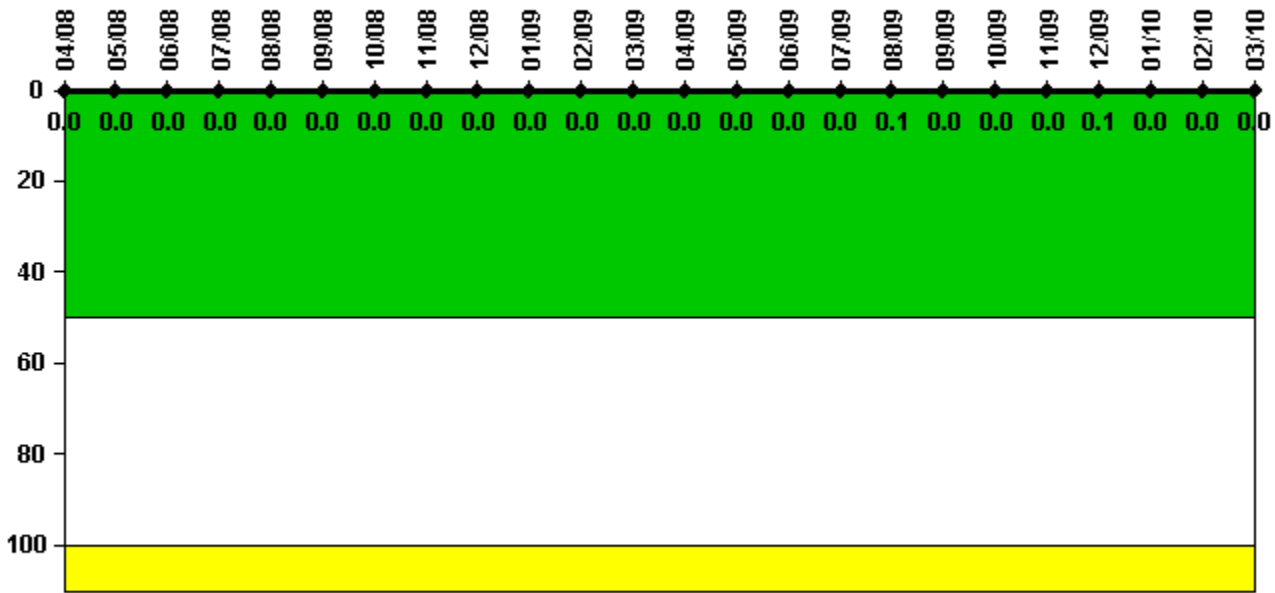
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	6.50E-08	9.30E-08	8.20E-08	9.10E-08	1.20E-07	9.30E-09	3.70E-09	3.43E-09
URI (Δ CDF)	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-2.00E-08	-2.00E-08	-1.99E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.50E-08	-5.70E-08	-6.80E-08	-5.90E-08	-3.00E-08	-1.07E-08	-1.63E-08	-1.70E-08

Licensee Comments: none

Reactor Coolant System Activity



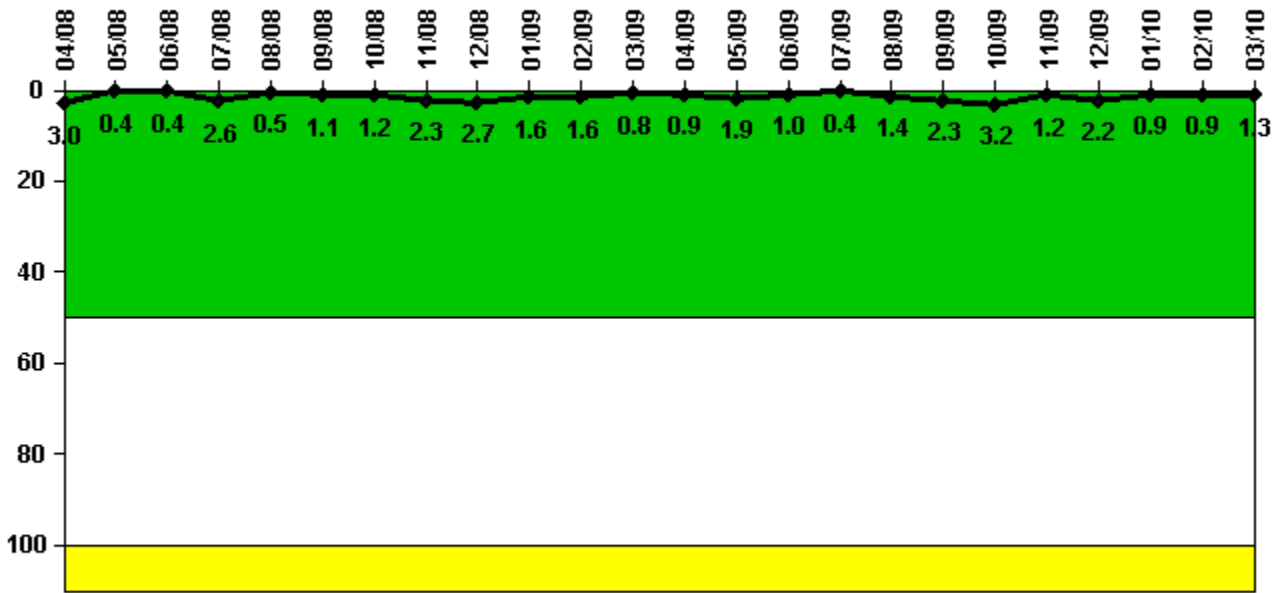
Thresholds: White > 50.0 Yellow > 100.0

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	0.000372	0.000232	0.000330	0.000199	0.000198	0.000168	0.000192	0.000197	0.000226	0.000237	0.000229	0.000239
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum activity	0.000256	0.000234	0.000237	0.000327	0.000572	0.000318	0.000279	0.000037	0.000664	0.000161	0.000185	0.000263
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0.1	0	0	0	0.1	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



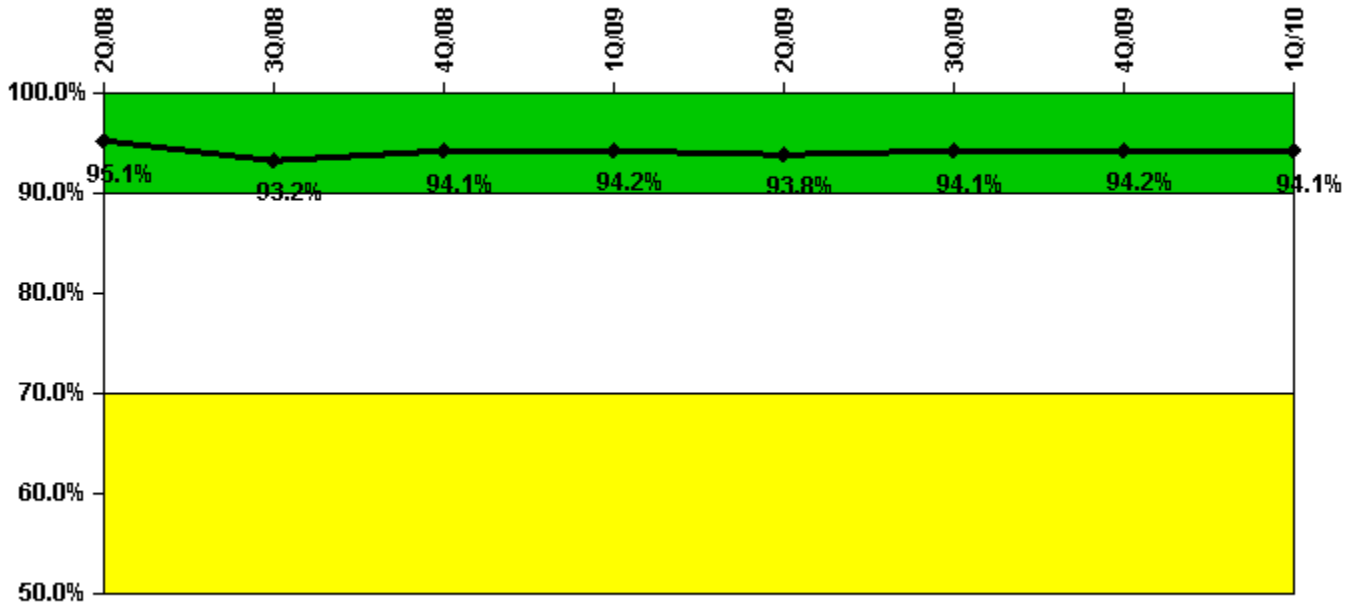
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum leakage	0.300	0.040	0.040	0.260	0.050	0.110	0.120	0.230	0.270	0.160	0.160	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	3.0	0.4	0.4	2.6	0.5	1.1	1.2	2.3	2.7	1.6	1.6	0.8
Reactor Coolant System Leakage	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum leakage	0.090	0.190	0.100	0.040	0.140	0.230	0.320	0.120	0.220	0.090	0.090	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	1.9	1.0	0.4	1.4	2.3	3.2	1.2	2.2	0.9	0.9	1.3

Licensee Comments: none

Drill/Exercise Performance



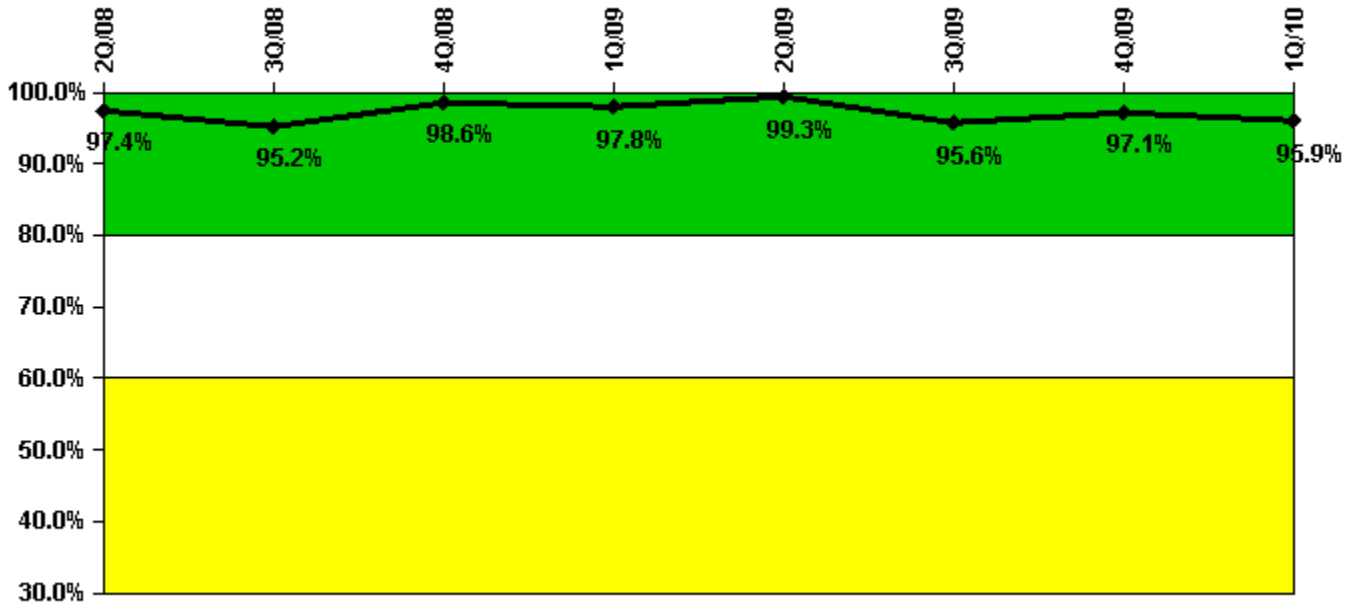
Thresholds: White < 90.0% Yellow < 70.0%

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



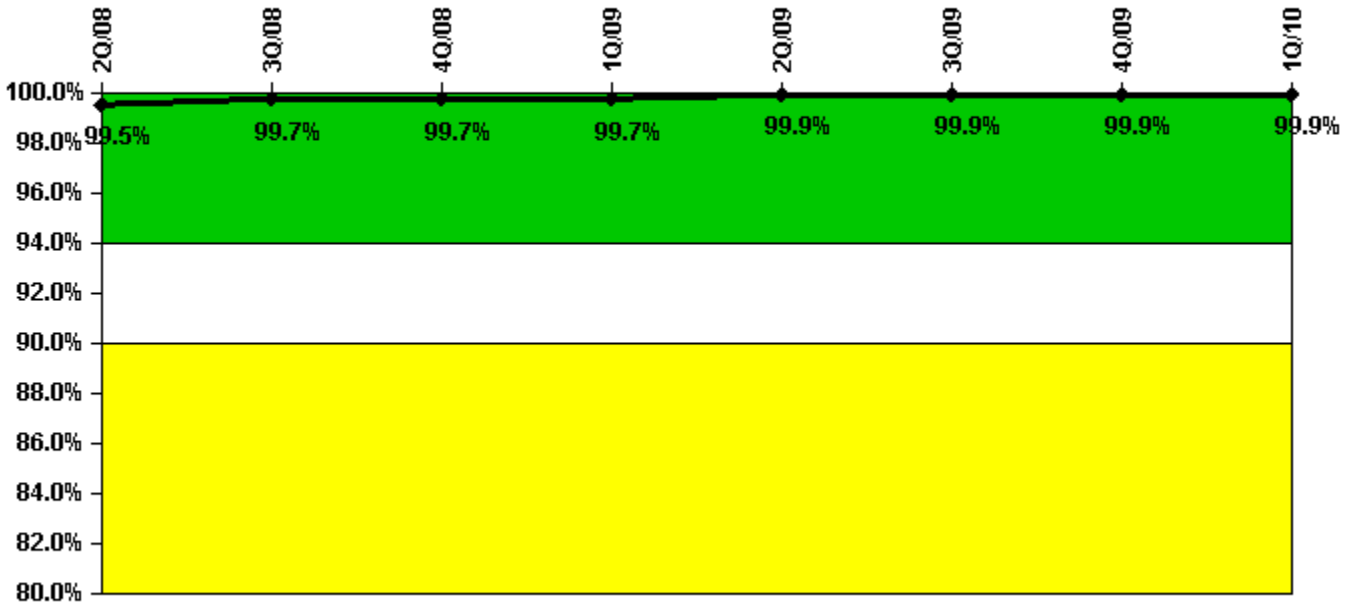
Thresholds: White < 80.0% Yellow < 60.0%

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



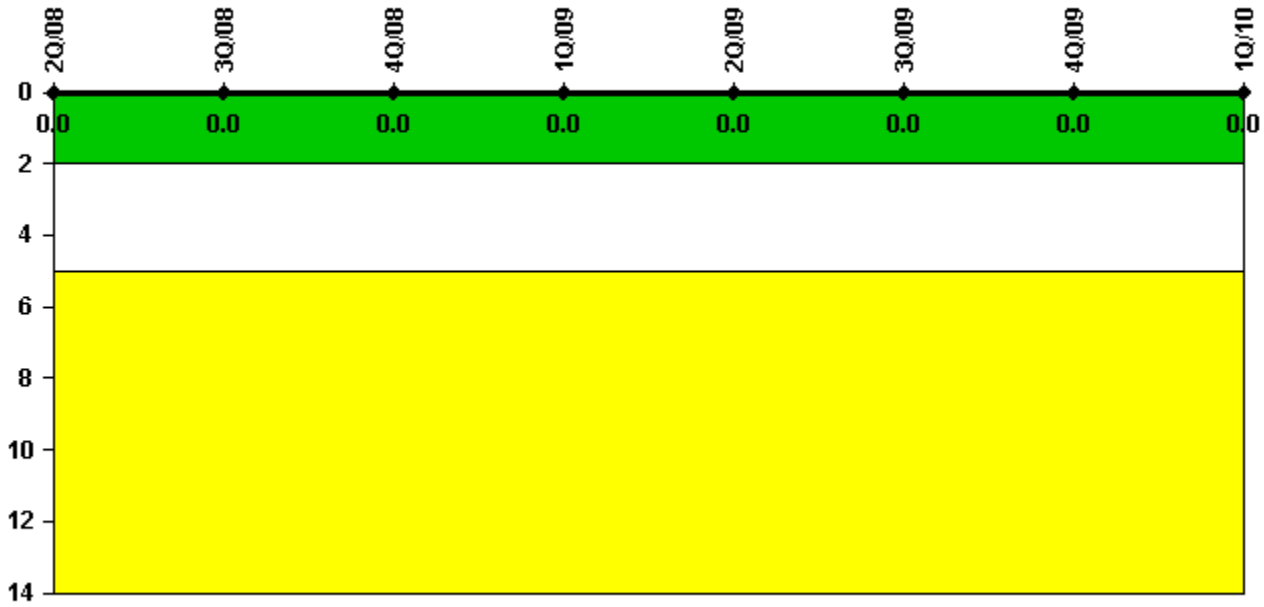
Thresholds: White < 94.0% Yellow < 90.0%

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



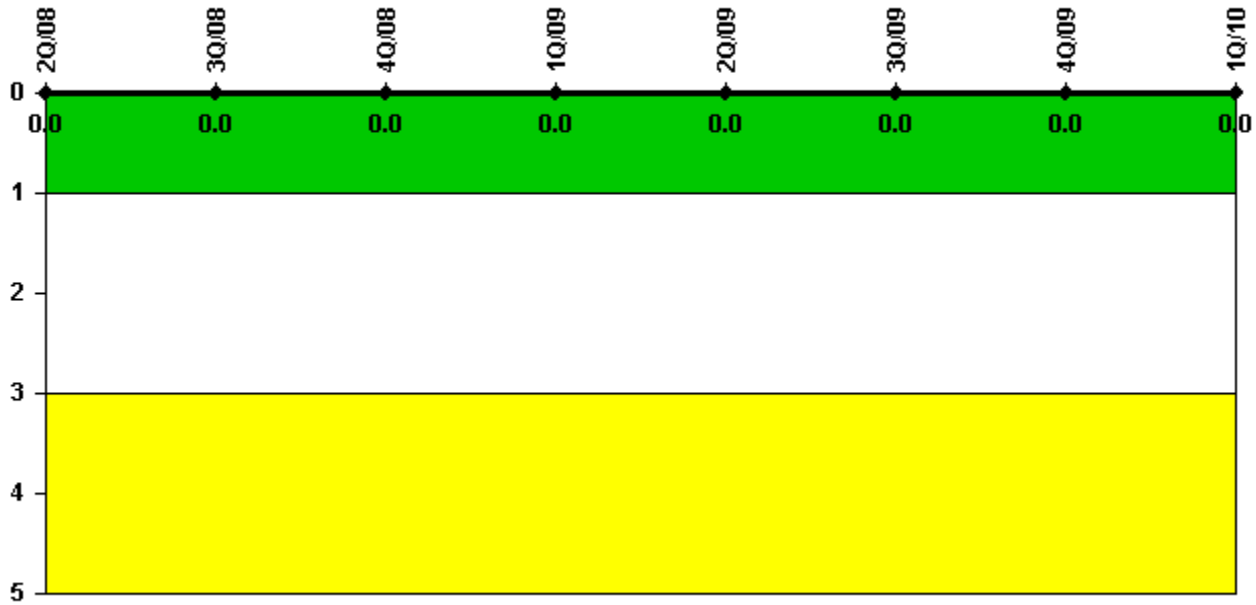
Thresholds: White > 2.0 Yellow > 5.0

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

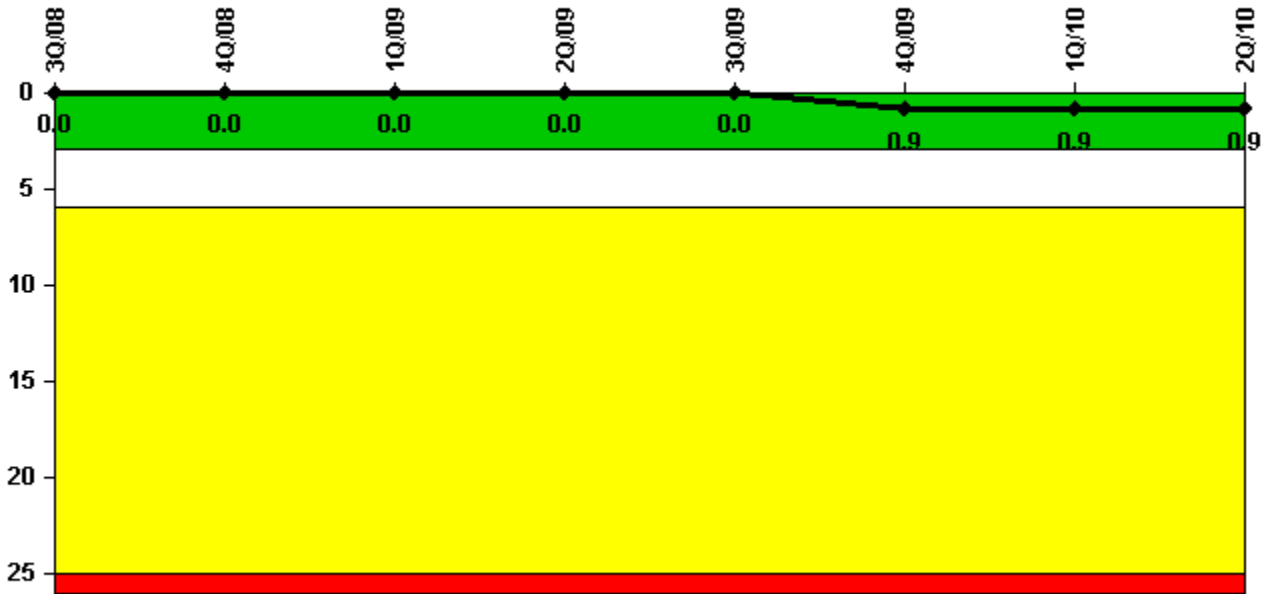
[Security](#) information not publicly available.

Surry 2

2Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



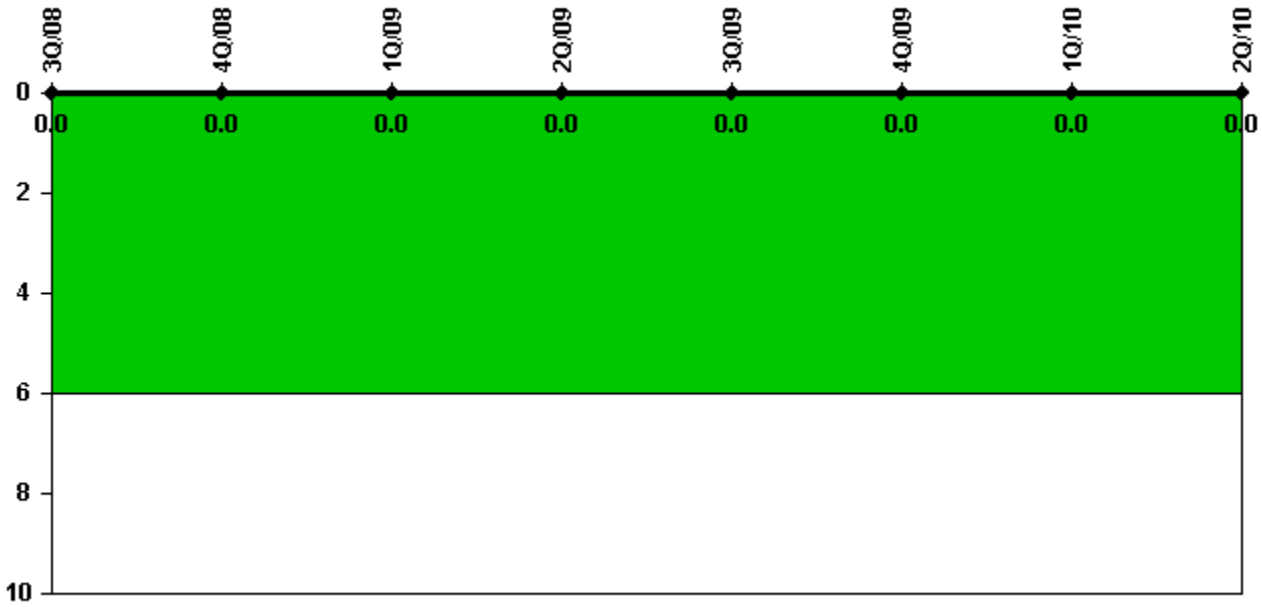
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	2208.0	1520.0	2159.0	2184.0
Indicator value	0	0	0	0	0	0.9	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



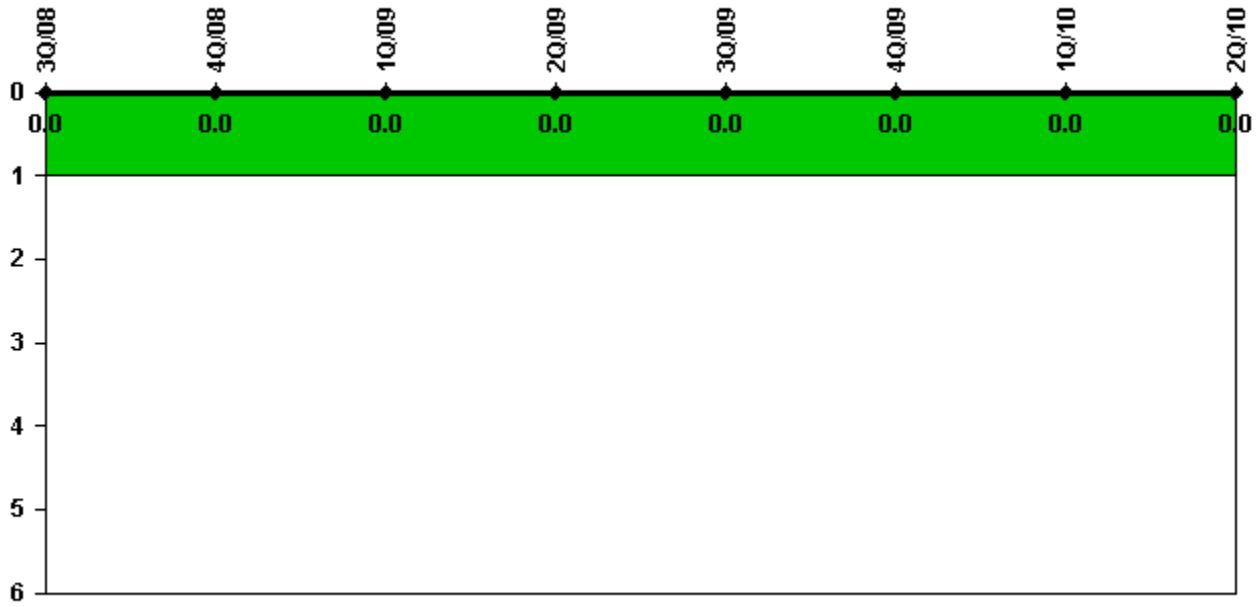
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	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	2209.0	2159.0	2184.0	2208.0	1520.0	2159.0	2184.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



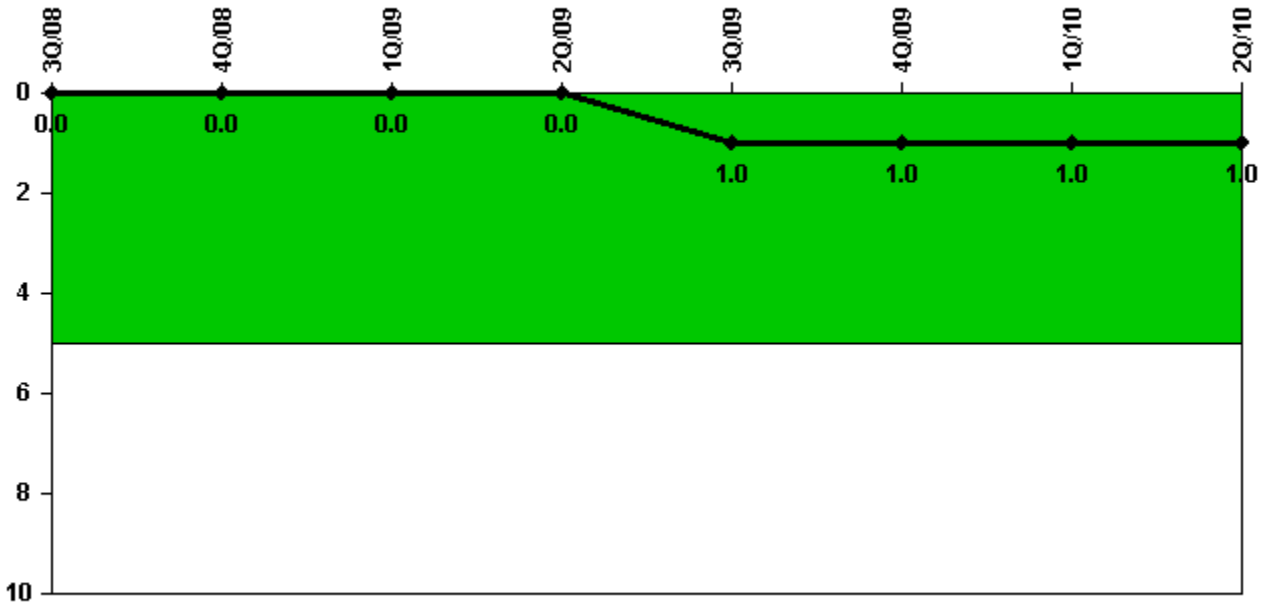
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



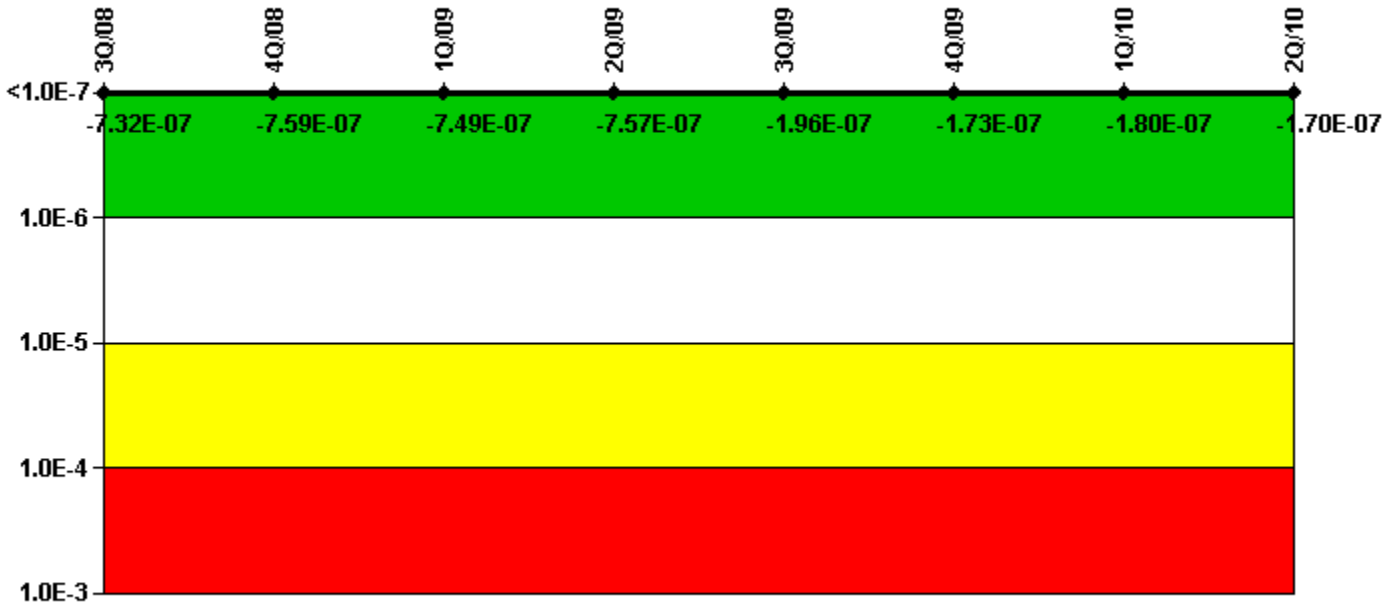
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Safety System Functional Failures	0	0	0	0	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



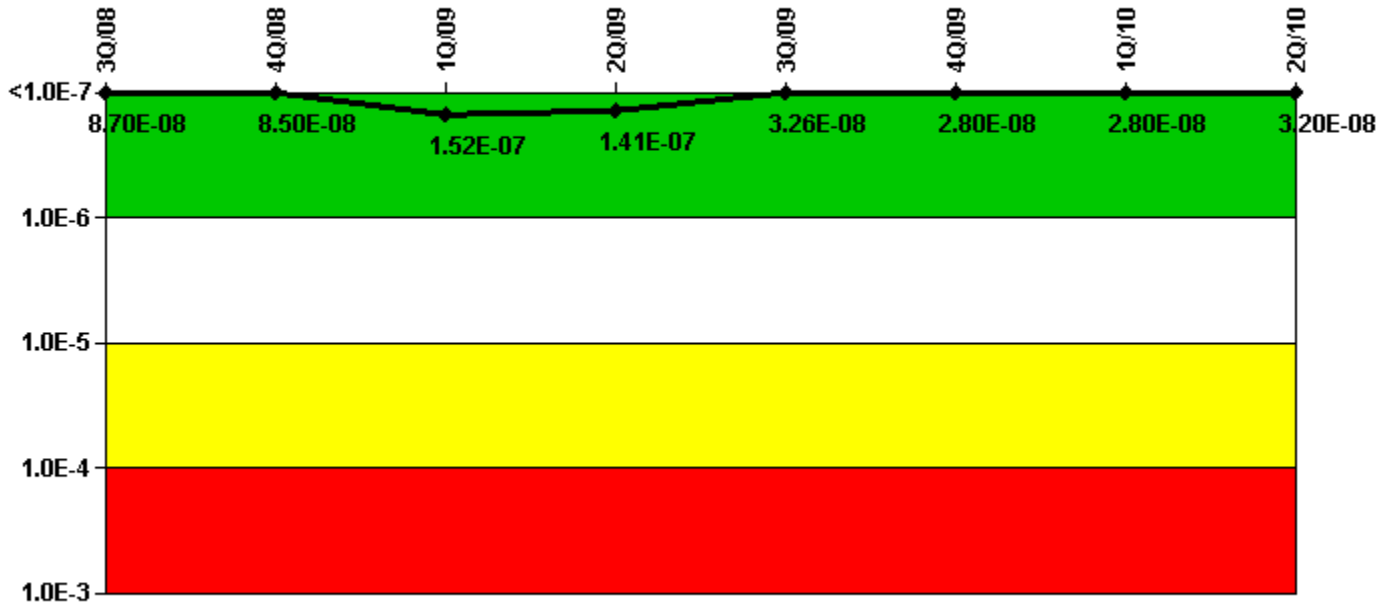
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	4.80E-08	3.10E-08	3.10E-08	2.30E-08	3.80E-09	7.00E-09	6.61E-09	2.68E-08
URI (ΔCDF)	-7.80E-07	-7.90E-07	-7.80E-07	-7.80E-07	-2.00E-07	-1.80E-07	-1.88E-07	-1.94E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.32E-07	-7.59E-07	-7.49E-07	-7.57E-07	-1.96E-07	-1.73E-07	-1.80E-07	-1.70E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



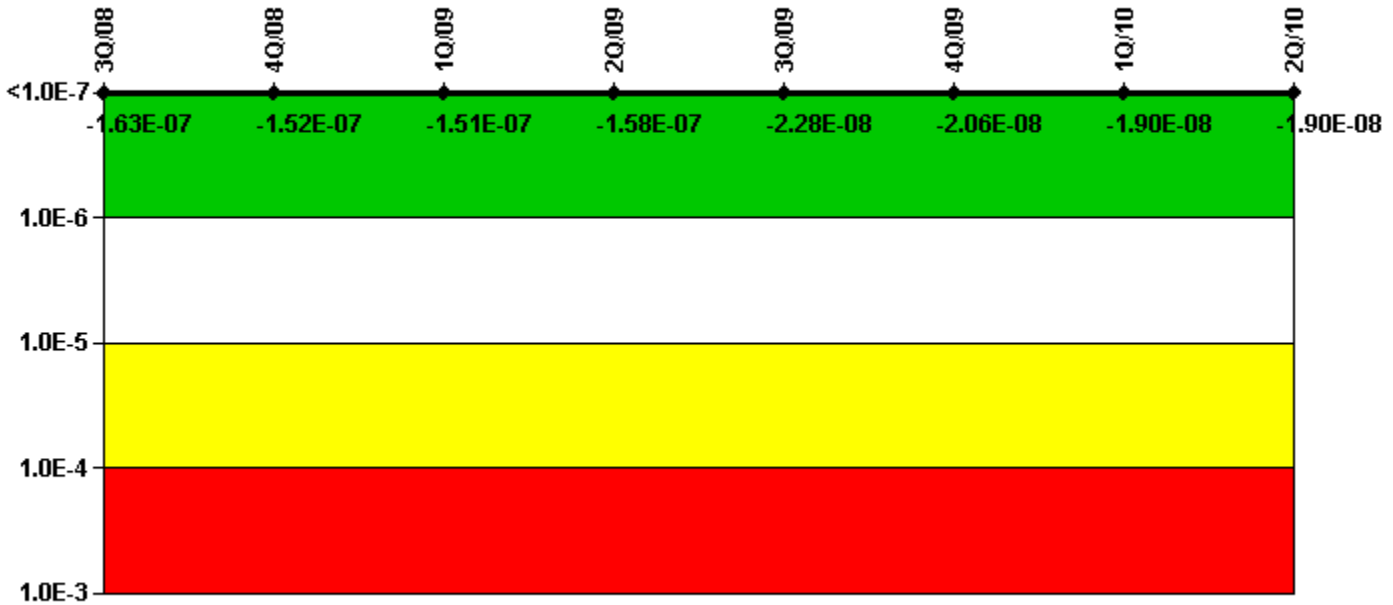
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.30E-08	1.20E-08	1.20E-08	1.10E-08	2.60E-09	-4.60E-11	5.19E-11	4.06E-09
URI (Δ CDF)	7.40E-08	7.30E-08	1.40E-07	1.30E-07	3.00E-08	2.80E-08	2.78E-08	2.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.70E-08	8.50E-08	1.52E-07	1.41E-07	3.26E-08	2.80E-08	2.80E-08	3.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



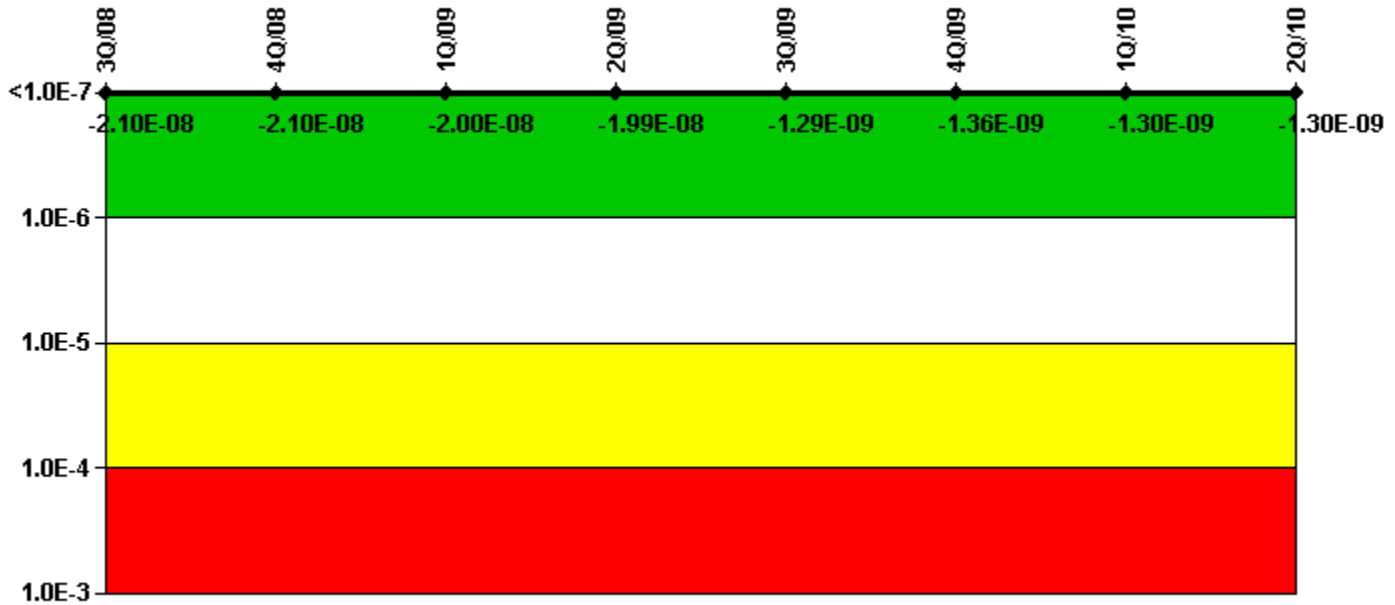
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	-4.30E-08	-3.20E-08	-3.10E-08	-2.80E-08	-3.80E-09	-3.60E-09	-3.59E-09	-3.39E-09
URI (Δ CDF)	-1.20E-07	-1.20E-07	-1.20E-07	-1.30E-07	-1.90E-08	-1.70E-08	-1.59E-08	-1.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.63E-07	-1.52E-07	-1.51E-07	-1.58E-07	-2.28E-08	-2.06E-08	-1.90E-08	-1.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



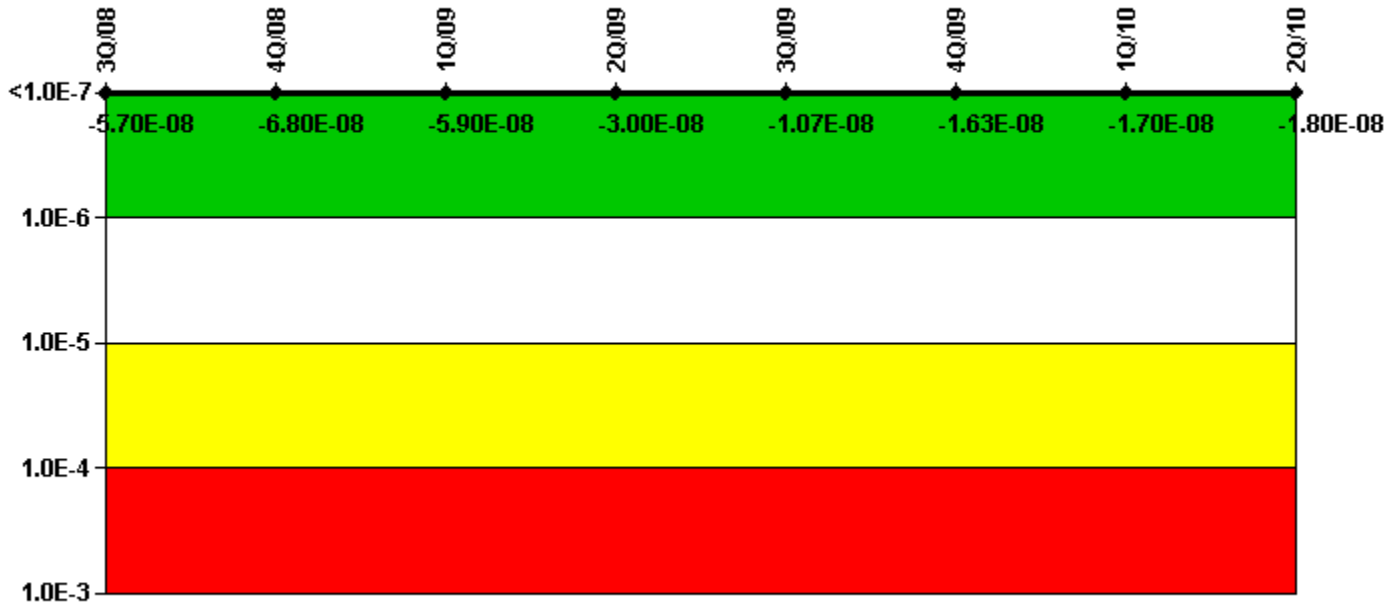
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	-5.00E-09	-5.00E-09	-5.00E-09	-4.90E-09	-2.90E-10	-2.60E-10	-2.58E-10	-2.52E-10
URI (Δ CDF)	-1.60E-08	-1.60E-08	-1.50E-08	-1.50E-08	-1.00E-09	-1.10E-09	-1.04E-09	-1.04E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.10E-08	-2.10E-08	-2.00E-08	-1.99E-08	-1.29E-09	-1.36E-09	-1.30E-09	-1.30E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



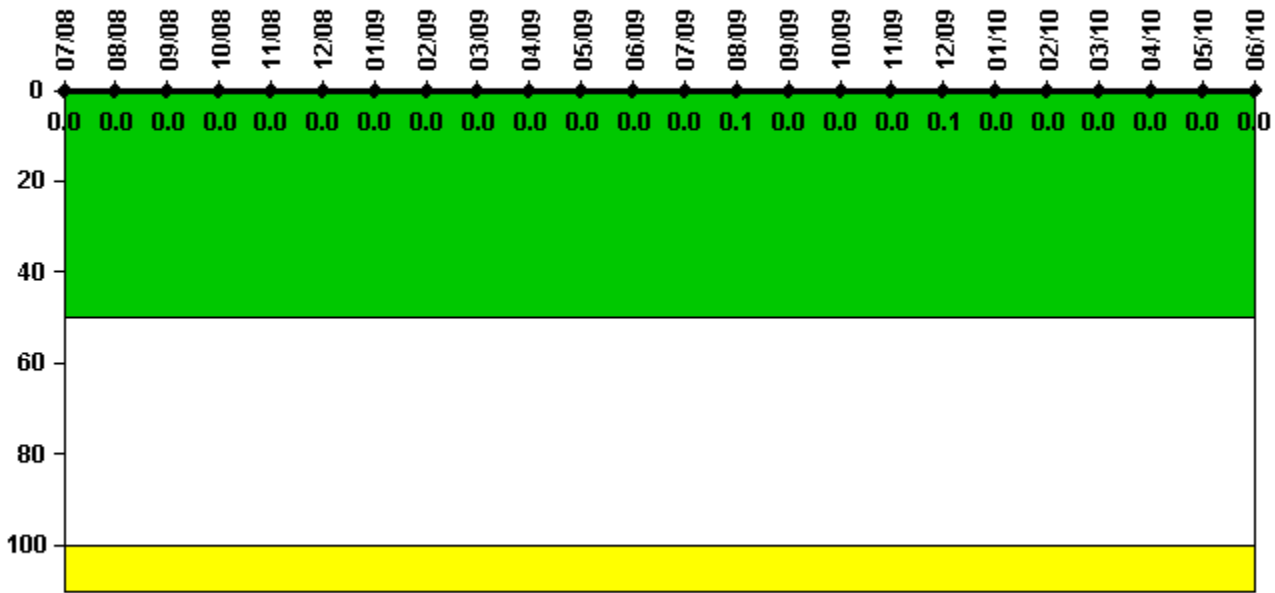
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	9.30E-08	8.20E-08	9.10E-08	1.20E-07	9.30E-09	3.70E-09	3.43E-09	3.24E-09
URI (Δ CDF)	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-2.00E-08	-2.00E-08	-1.99E-08	-2.09E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.70E-08	-6.80E-08	-5.90E-08	-3.00E-08	-1.07E-08	-1.63E-08	-1.70E-08	-1.80E-08

Licensee Comments: none

Reactor Coolant System Activity



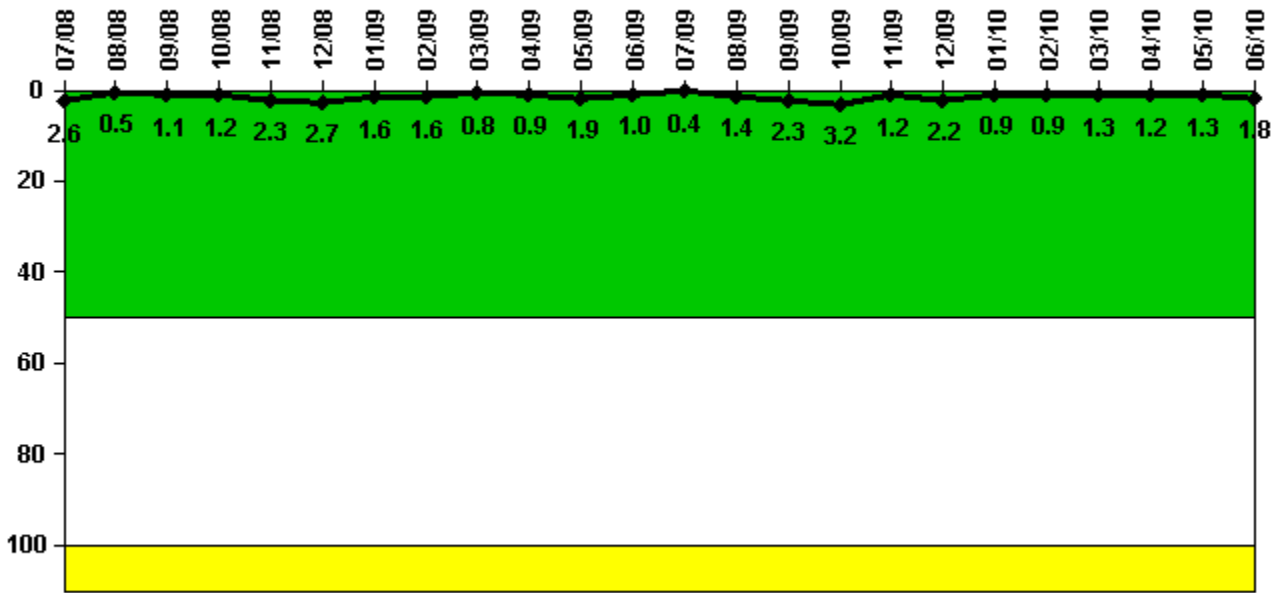
Thresholds: White > 50.0 Yellow > 100.0

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	0.000199	0.000198	0.000168	0.000192	0.000197	0.000226	0.000237	0.000229	0.000239	0.000256	0.000234	0.000237
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum activity	0.000327	0.000572	0.000318	0.000279	0.000037	0.000664	0.000161	0.000185	0.000263	0.000236	0.000248	0.000204
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0.1	0	0	0	0.1	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



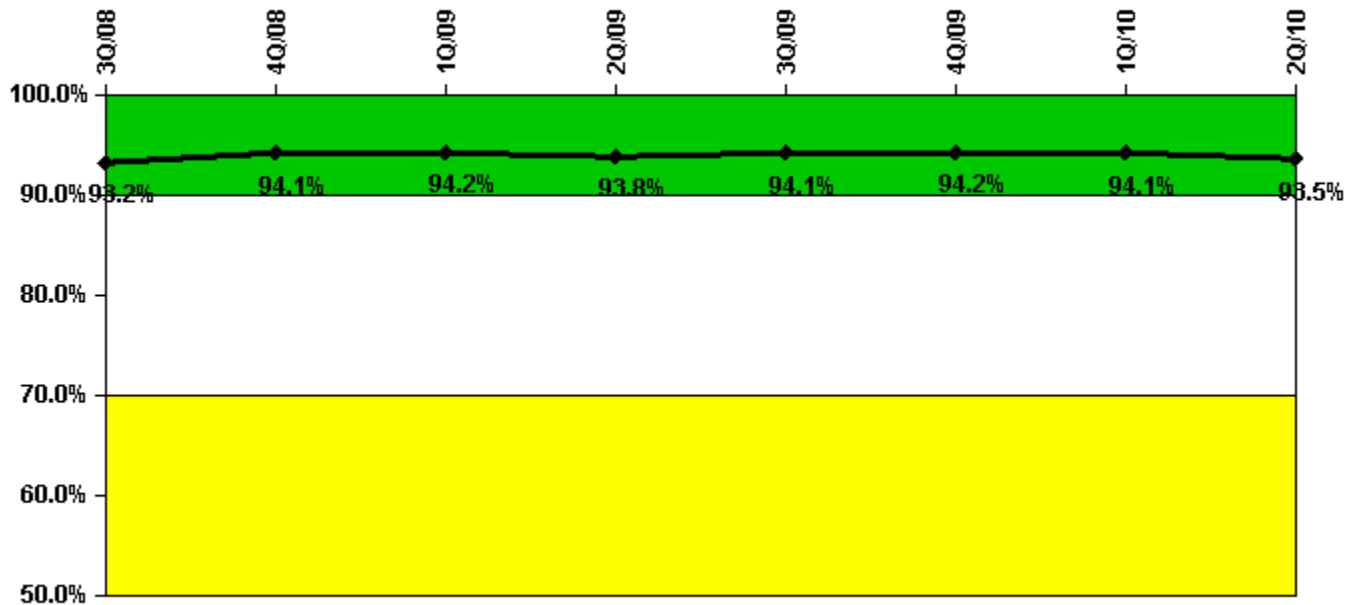
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum leakage	0.260	0.050	0.110	0.120	0.230	0.270	0.160	0.160	0.080	0.090	0.190	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	2.6	0.5	1.1	1.2	2.3	2.7	1.6	1.6	0.8	0.9	1.9	1.0
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	0.040	0.140	0.230	0.320	0.120	0.220	0.090	0.090	0.130	0.120	0.130	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	0.4	1.4	2.3	3.2	1.2	2.2	0.9	0.9	1.3	1.2	1.3	1.8

Licensee Comments: none

Drill/Exercise Performance



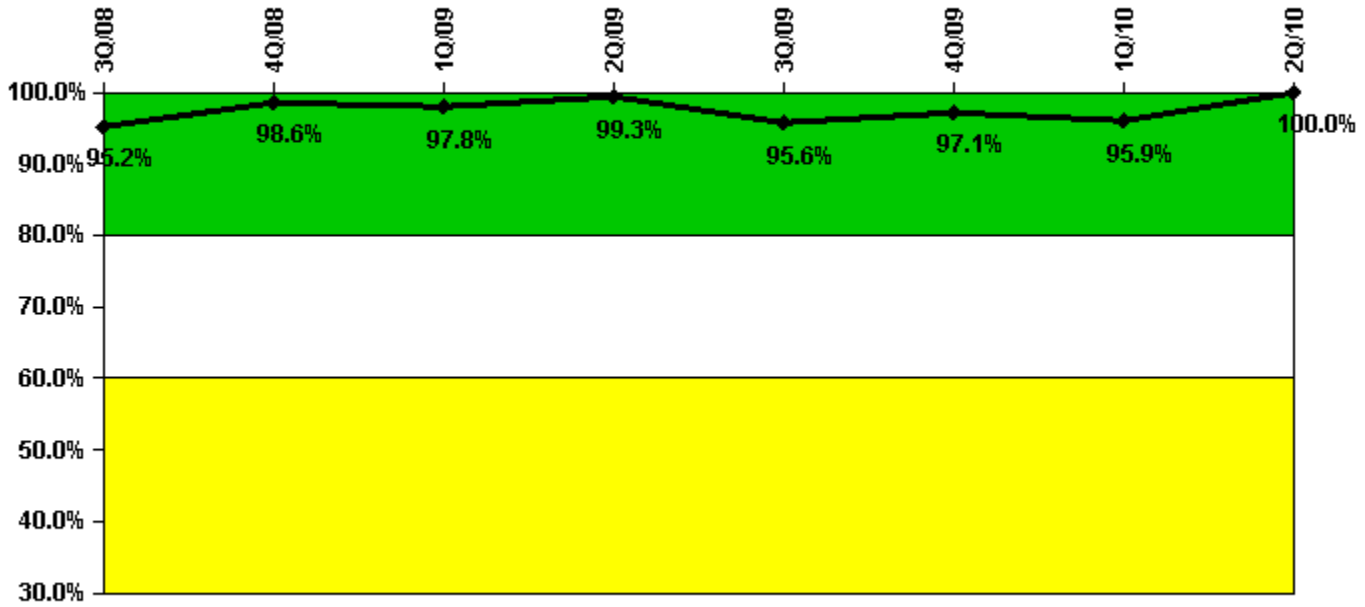
Thresholds: White < 90.0% Yellow < 70.0%

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



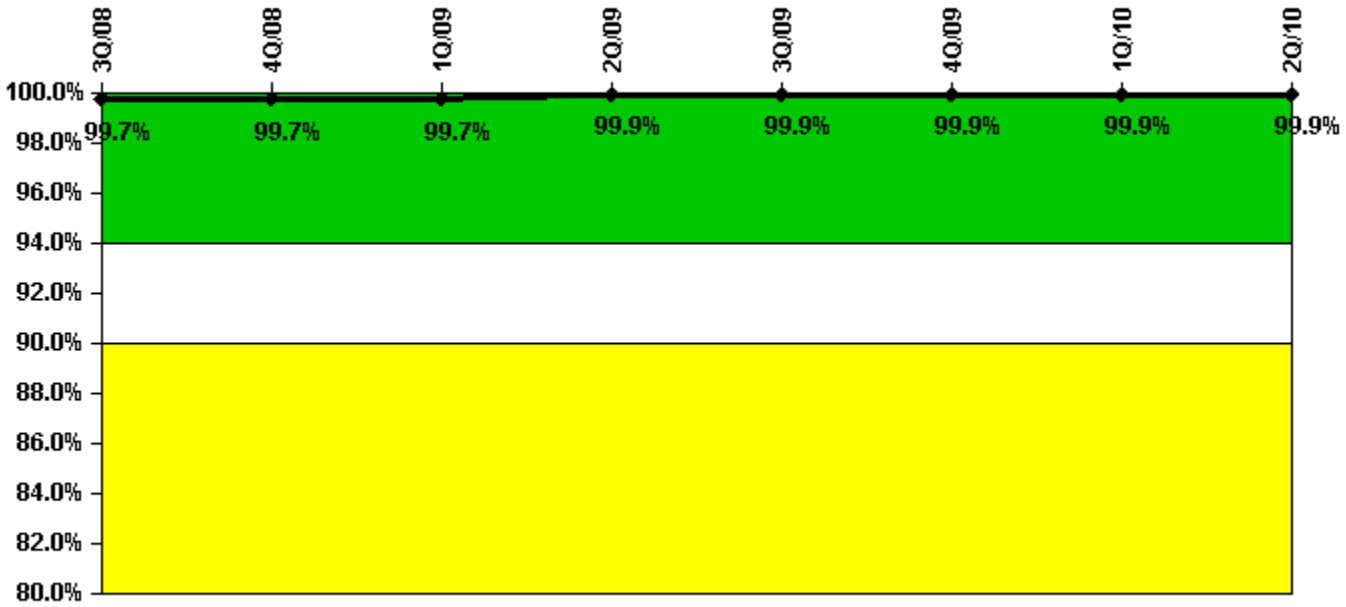
Thresholds: White < 80.0% Yellow < 60.0%

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



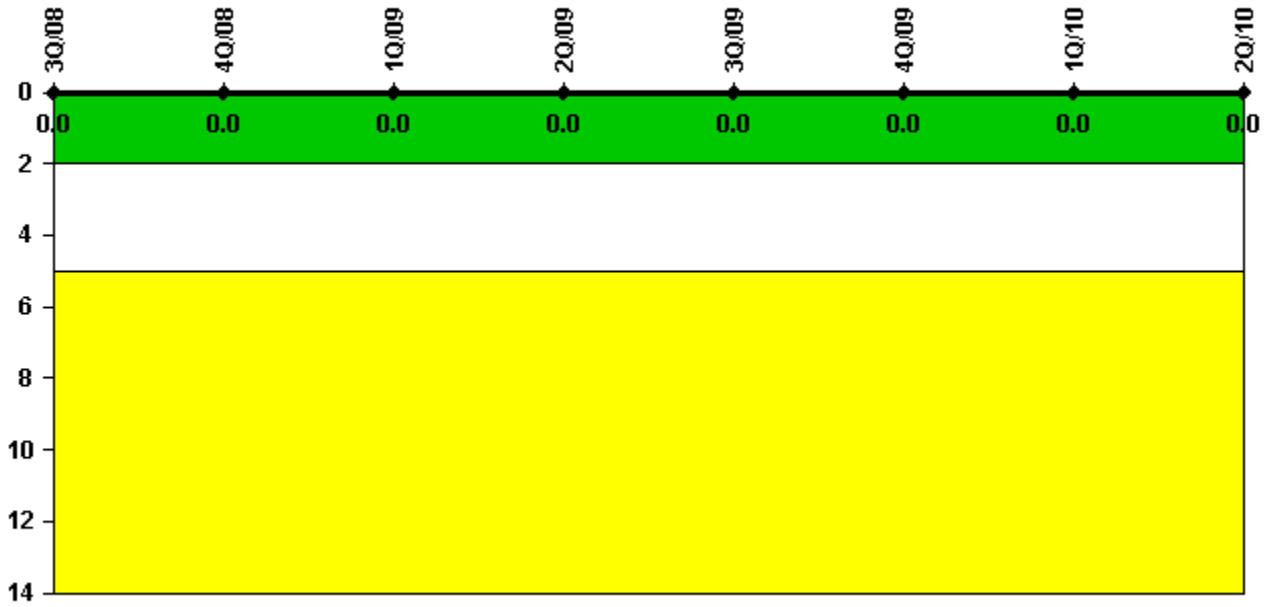
Thresholds: White < 94.0% Yellow < 90.0%

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



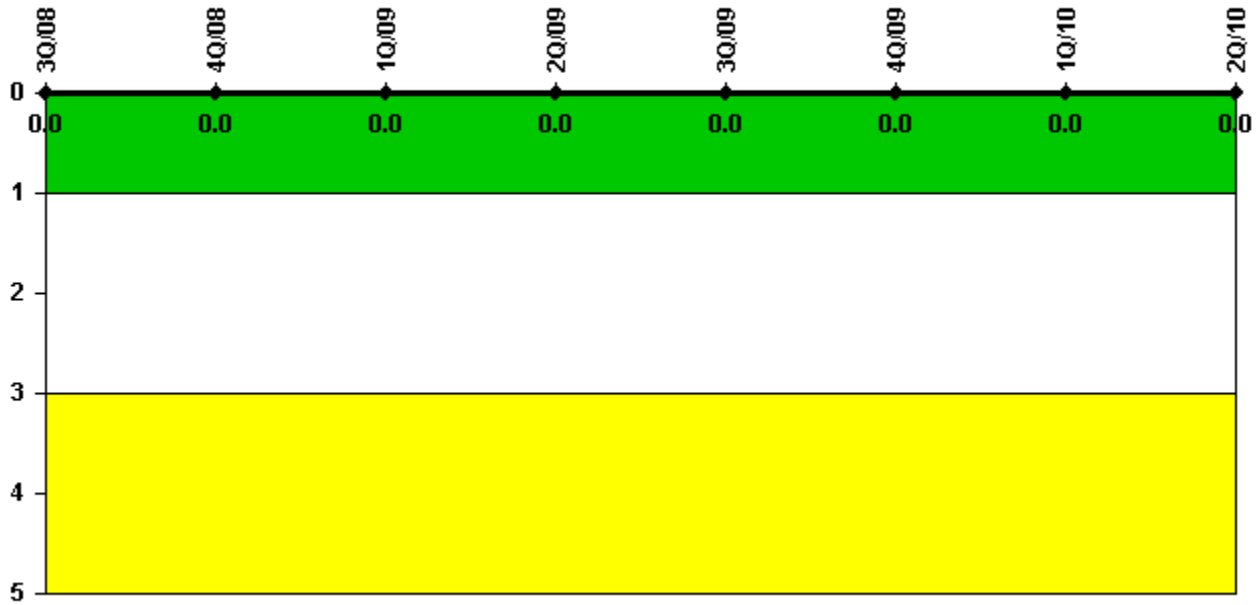
Thresholds: White > 2.0 Yellow > 5.0

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

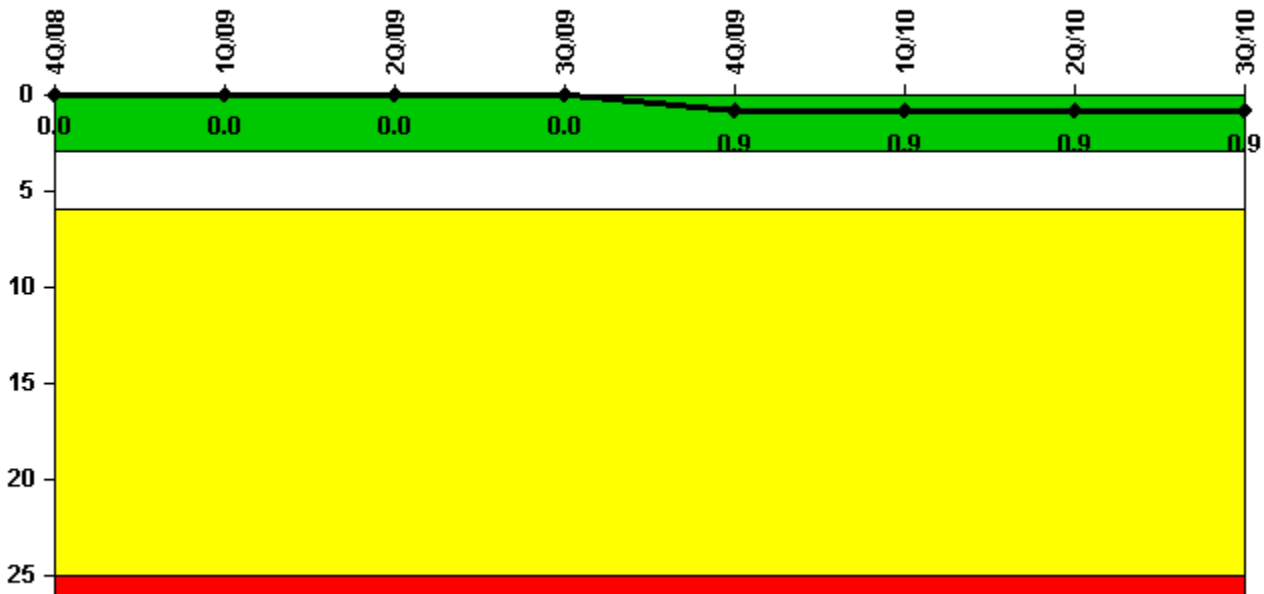
[Security](#) information not publicly available.

Surry 2

3Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



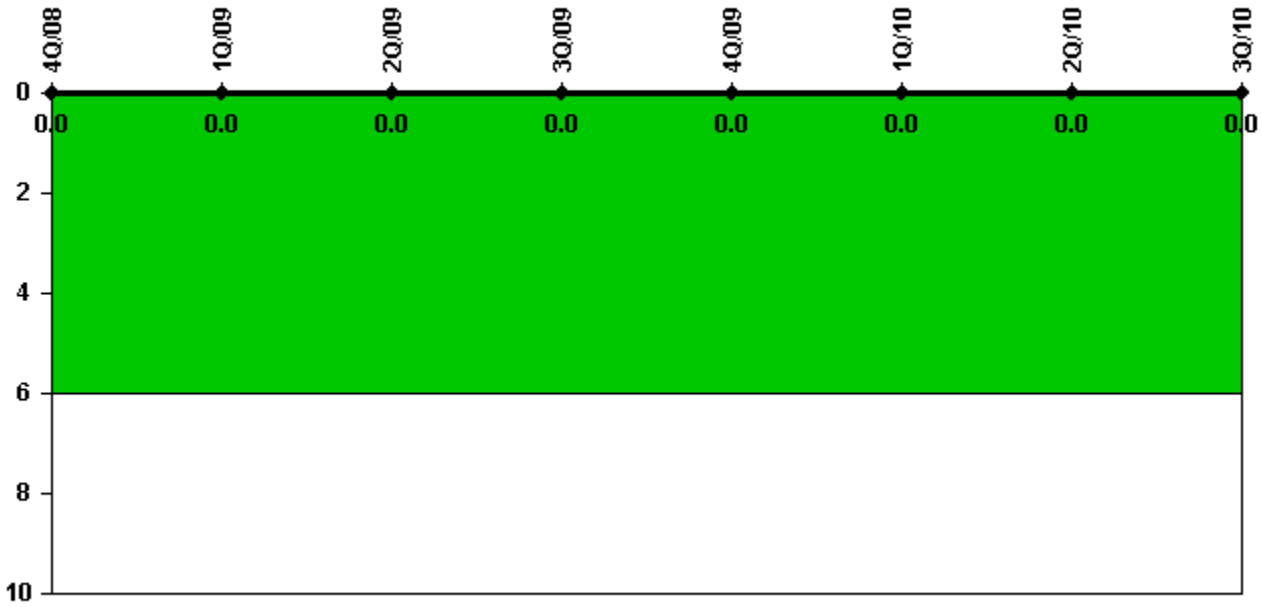
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	1520.0	2159.0	2184.0	2107.9
Indicator value	0	0	0	0	0.9	0.9	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



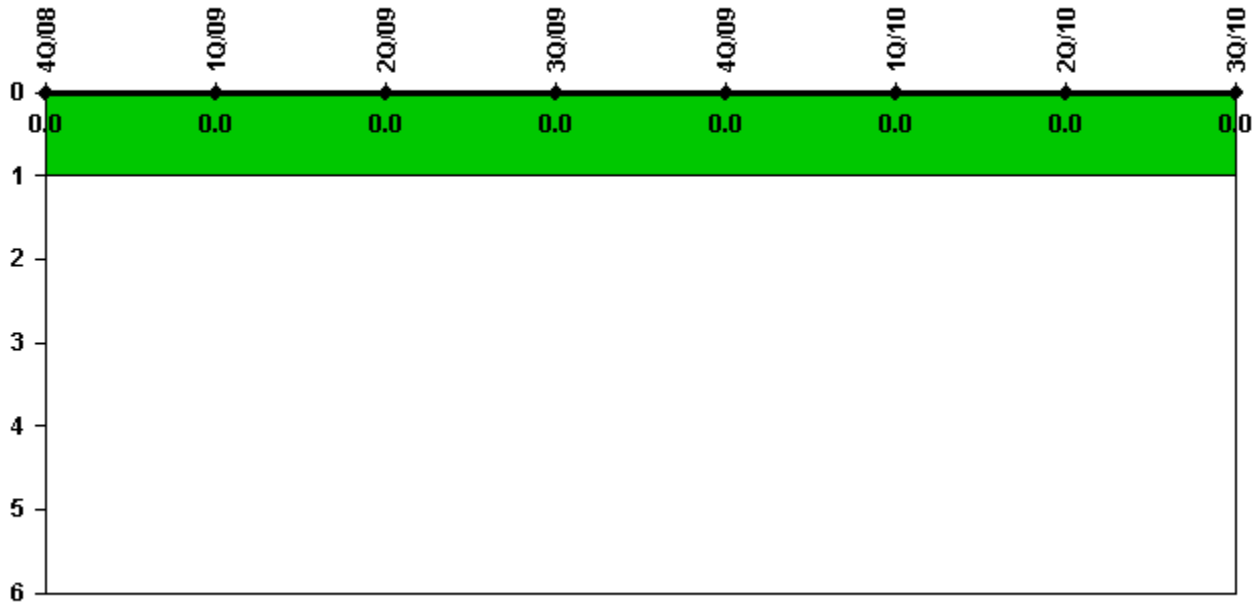
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	1520.0	2159.0	2184.0	2107.9
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



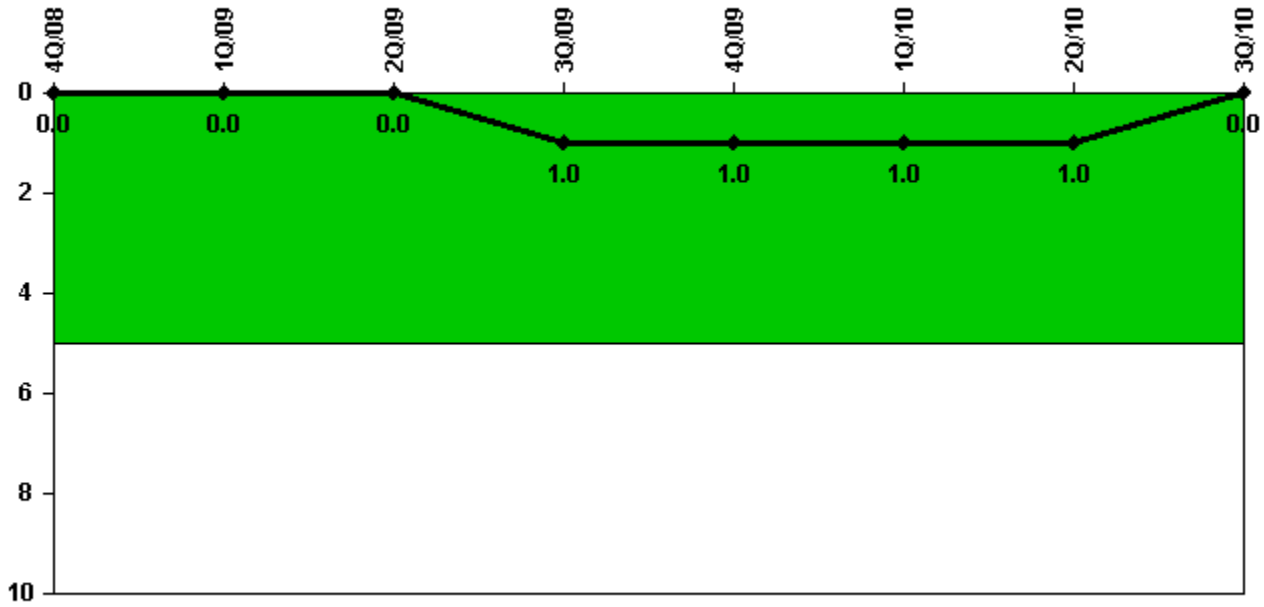
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



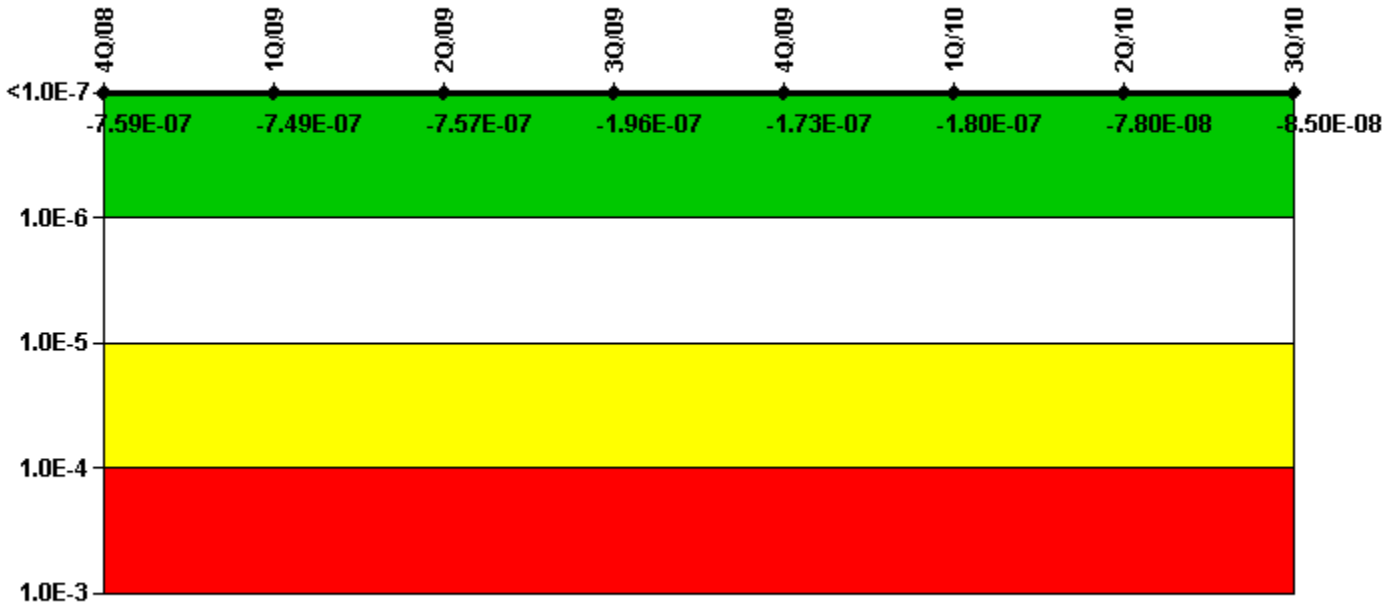
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Safety System Functional Failures	0	0	0	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

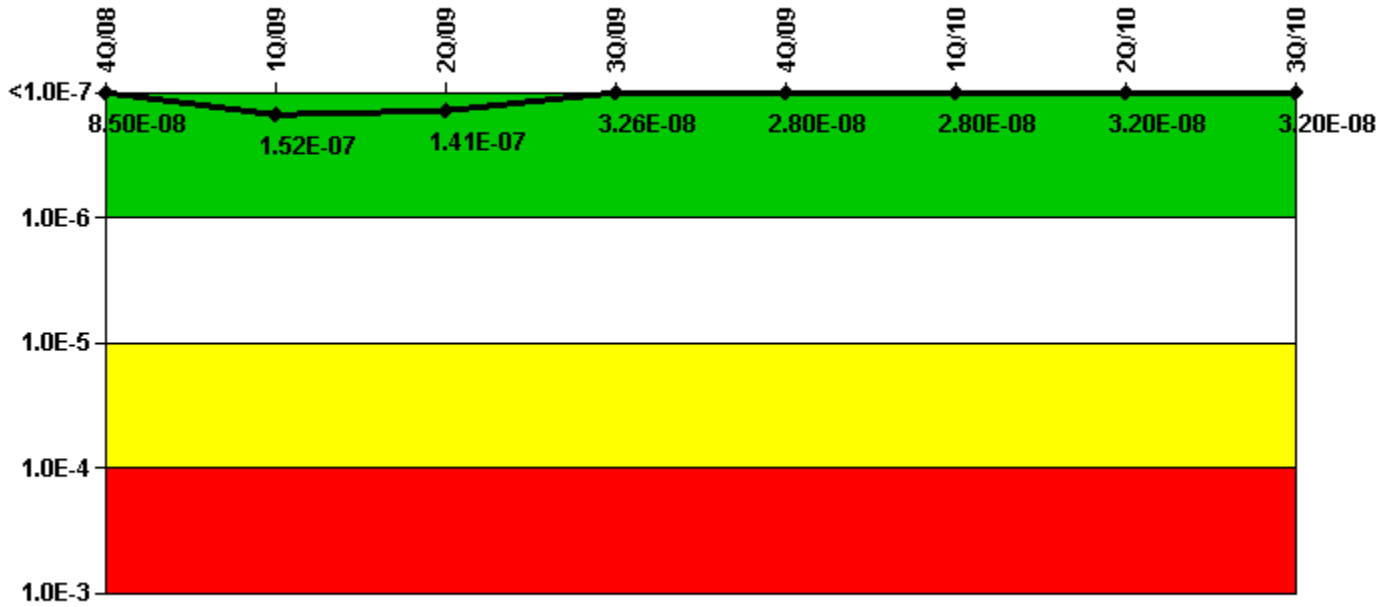
Notes

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 (Δ CDF)	3.10E-08	3.10E-08	2.30E-08	3.80E-09	7.00E-09	6.61E-09	2.68E-08	1.43E-08
URI (Δ CDF)	-7.90E-07	-7.80E-07	-7.80E-07	-2.00E-07	-1.80E-07	-1.88E-07	-1.05E-07	-9.95E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.59E-07	-7.49E-07	-7.57E-07	-1.96E-07	-1.73E-07	-1.80E-07	-7.80E-08	-8.50E-08

Licensee Comments:

3Q/10: Final evaluation of a voltage regulator failure in April 2010 was determined to be a MSPI failure. Historical data was corrected with no change in color.

Mitigating Systems Performance Index, High Pressure Injection System



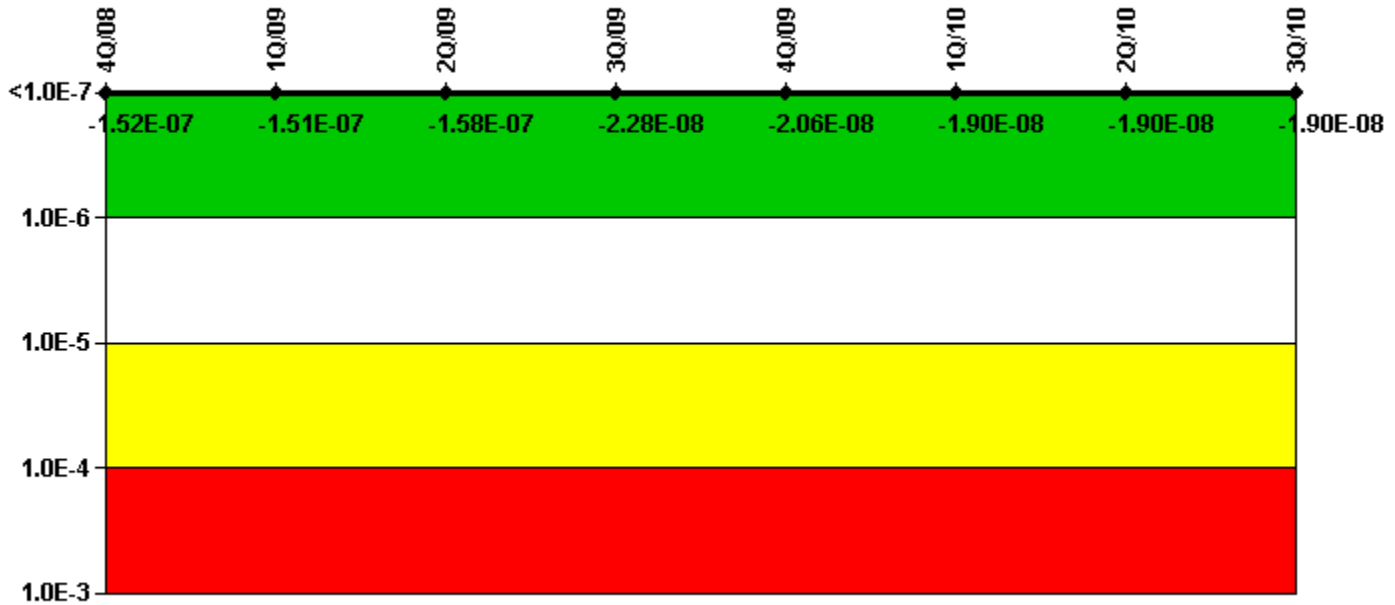
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	1.20E-08	1.20E-08	1.10E-08	2.60E-09	-4.60E-11	5.19E-11	4.06E-09	3.92E-09
URI (Δ CDF)	7.30E-08	1.40E-07	1.30E-07	3.00E-08	2.80E-08	2.78E-08	2.80E-08	2.82E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.50E-08	1.52E-07	1.41E-07	3.26E-08	2.80E-08	2.80E-08	3.20E-08	3.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



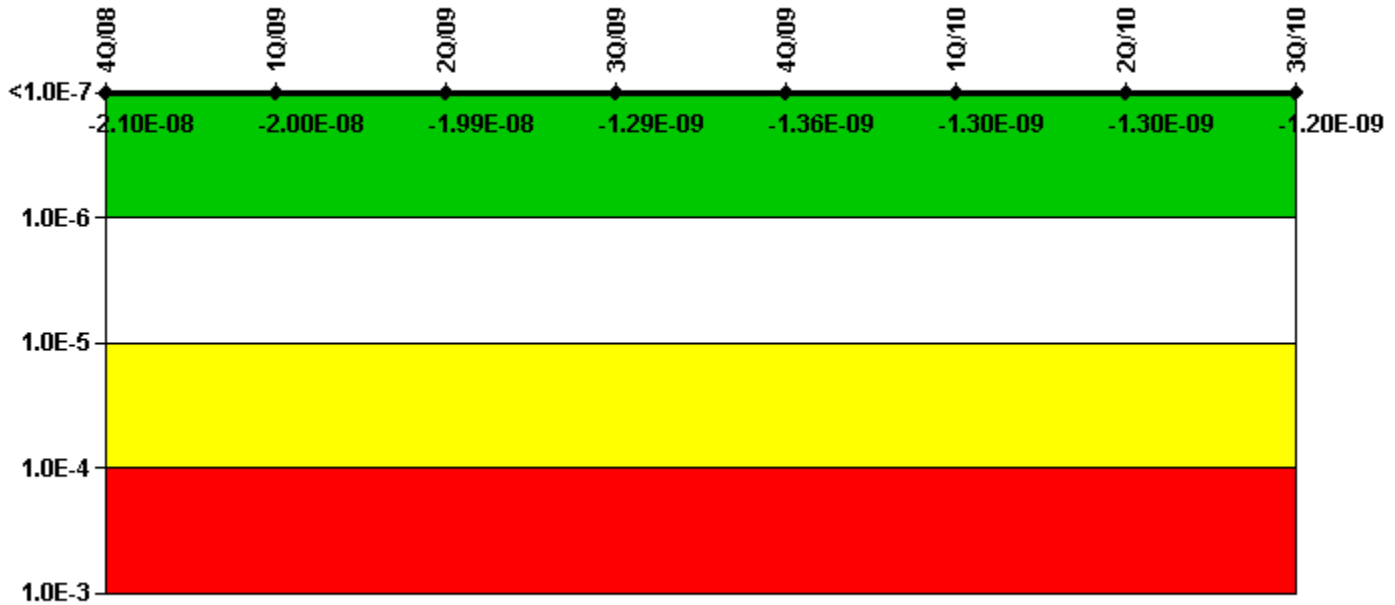
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	-3.20E-08	-3.10E-08	-2.80E-08	-3.80E-09	-3.60E-09	-3.59E-09	-3.39E-09	-3.43E-09
URI (Δ CDF)	-1.20E-07	-1.20E-07	-1.30E-07	-1.90E-08	-1.70E-08	-1.59E-08	-1.59E-08	-1.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.52E-07	-1.51E-07	-1.58E-07	-2.28E-08	-2.06E-08	-1.90E-08	-1.90E-08	-1.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



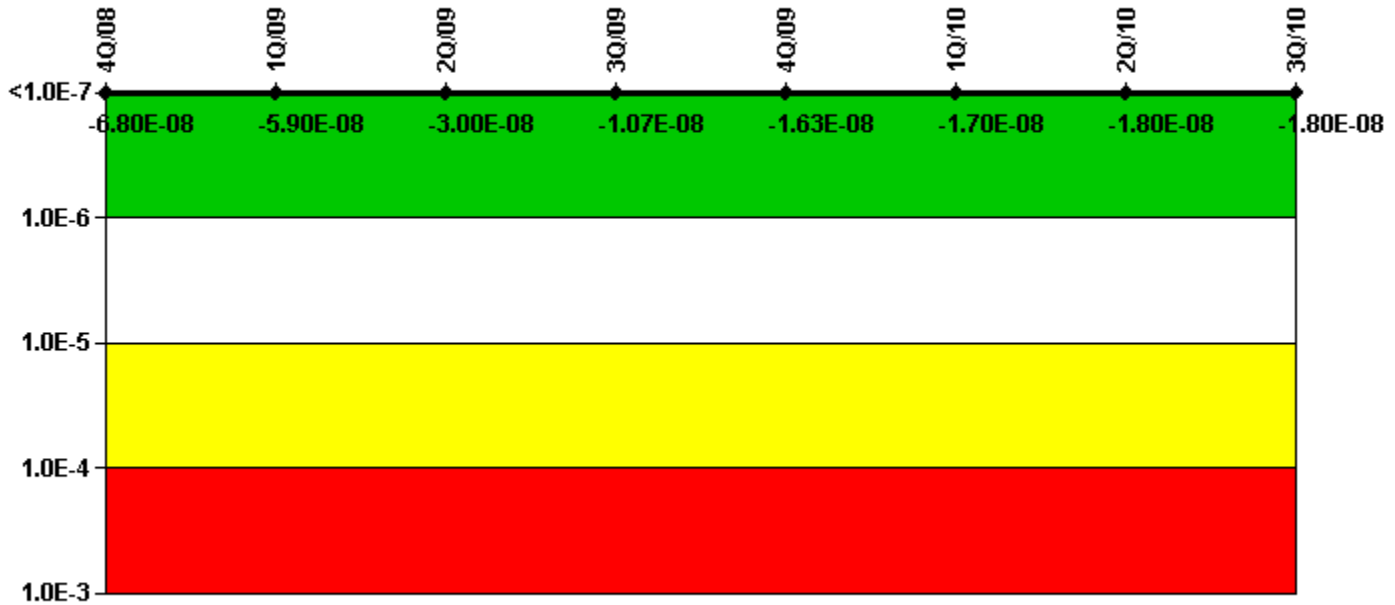
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	-5.00E-09	-5.00E-09	-4.90E-09	-2.90E-10	-2.60E-10	-2.58E-10	-2.52E-10	-1.94E-10
URI (Δ CDF)	-1.60E-08	-1.50E-08	-1.50E-08	-1.00E-09	-1.10E-09	-1.04E-09	-1.04E-09	-1.04E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.10E-08	-2.00E-08	-1.99E-08	-1.29E-09	-1.36E-09	-1.30E-09	-1.30E-09	-1.20E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



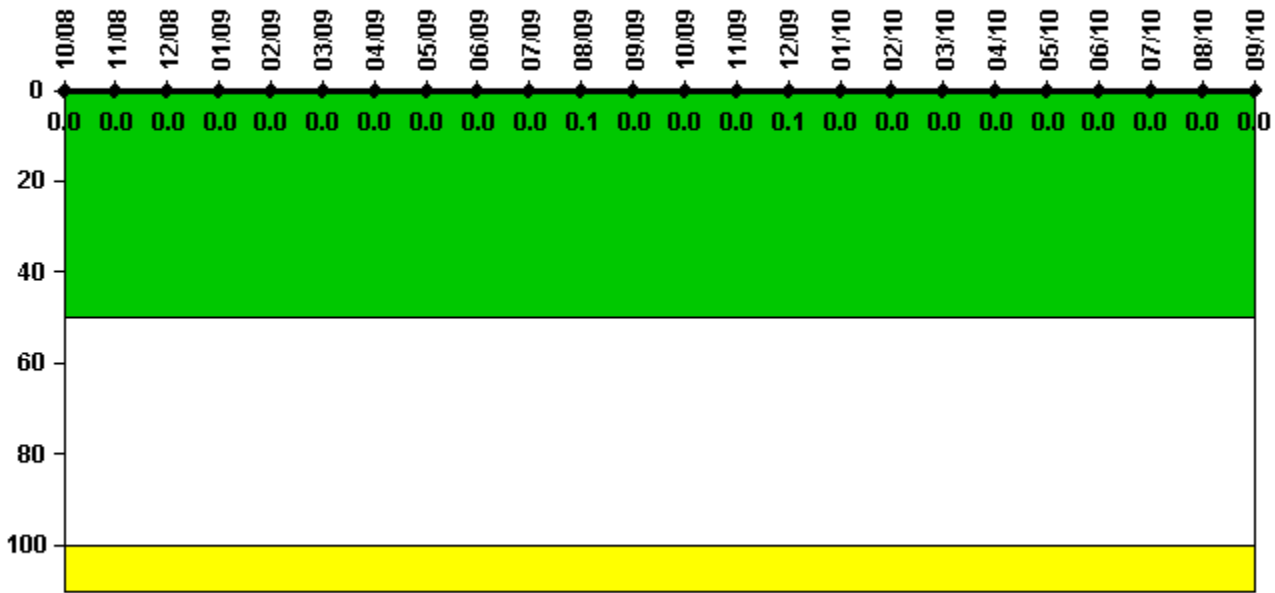
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	8.20E-08	9.10E-08	1.20E-07	9.30E-09	3.70E-09	3.43E-09	3.24E-09	3.50E-09
URI (Δ CDF)	-1.50E-07	-1.50E-07	-1.50E-07	-2.00E-08	-2.00E-08	-1.99E-08	-2.09E-08	-2.13E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.80E-08	-5.90E-08	-3.00E-08	-1.07E-08	-1.63E-08	-1.70E-08	-1.80E-08	-1.80E-08

Licensee Comments: none

Reactor Coolant System Activity



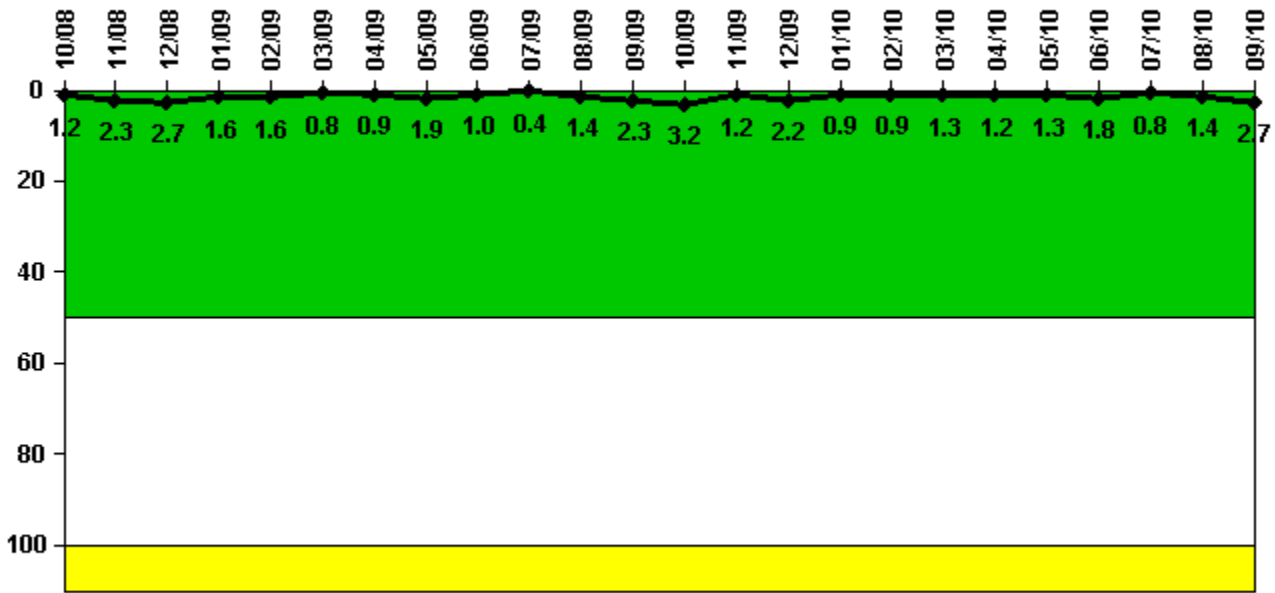
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum activity	0.000192	0.000197	0.000226	0.000237	0.000229	0.000239	0.000256	0.000234	0.000237	0.000327	0.000572	0.000318
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0.1	0
Reactor Coolant System Activity	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	0.000279	0.000037	0.000664	0.000161	0.000185	0.000263	0.000236	0.000248	0.000204	0.000375	0.000316	0.000209
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0.1	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



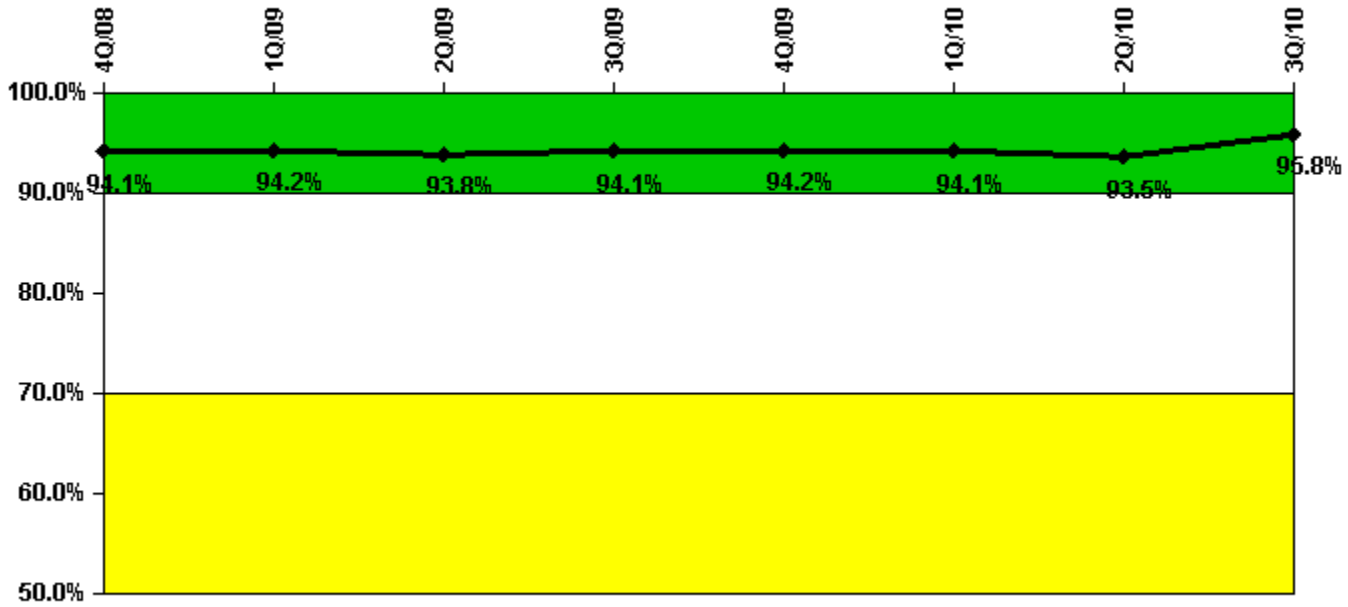
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum leakage	0.120	0.230	0.270	0.160	0.160	0.080	0.090	0.190	0.100	0.040	0.140	0.230
Technical specification limit	10.0	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	2.3	2.7	1.6	1.6	0.8	0.9	1.9	1.0	0.4	1.4	2.3
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	0.320	0.120	0.220	0.090	0.090	0.130	0.120	0.130	0.180	0.080	0.140	0.270
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.2	1.2	2.2	0.9	0.9	1.3	1.2	1.3	1.8	0.8	1.4	2.7

Licensee Comments: none

Drill/Exercise Performance



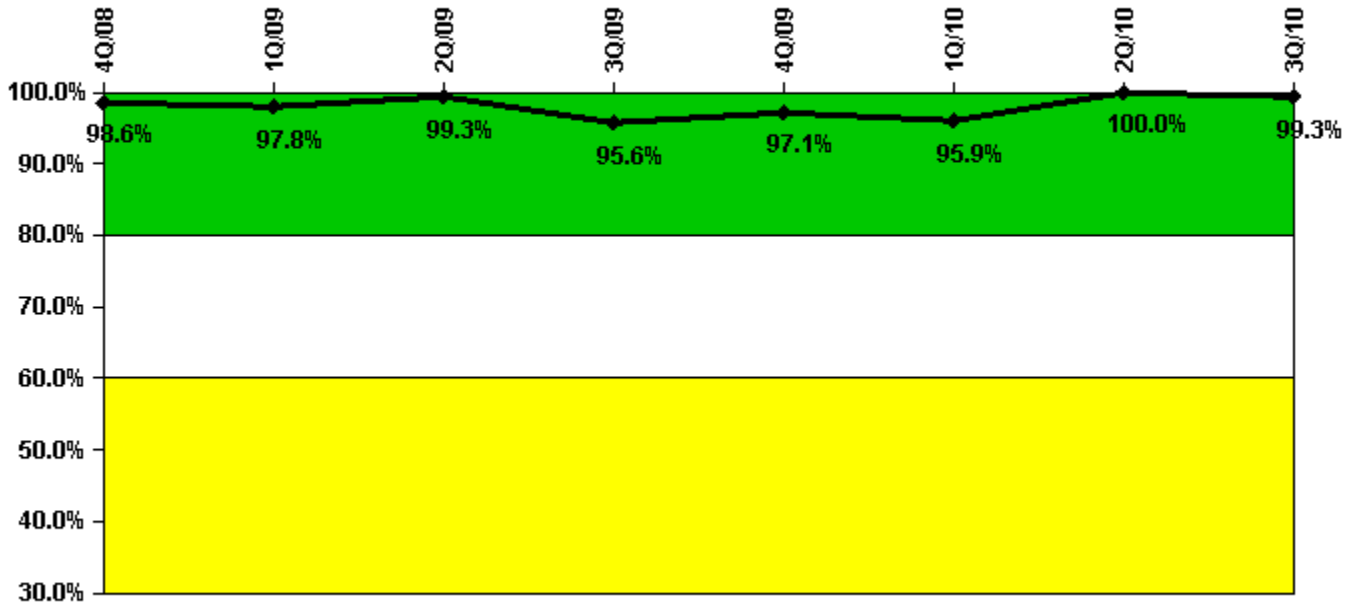
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful opportunities	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



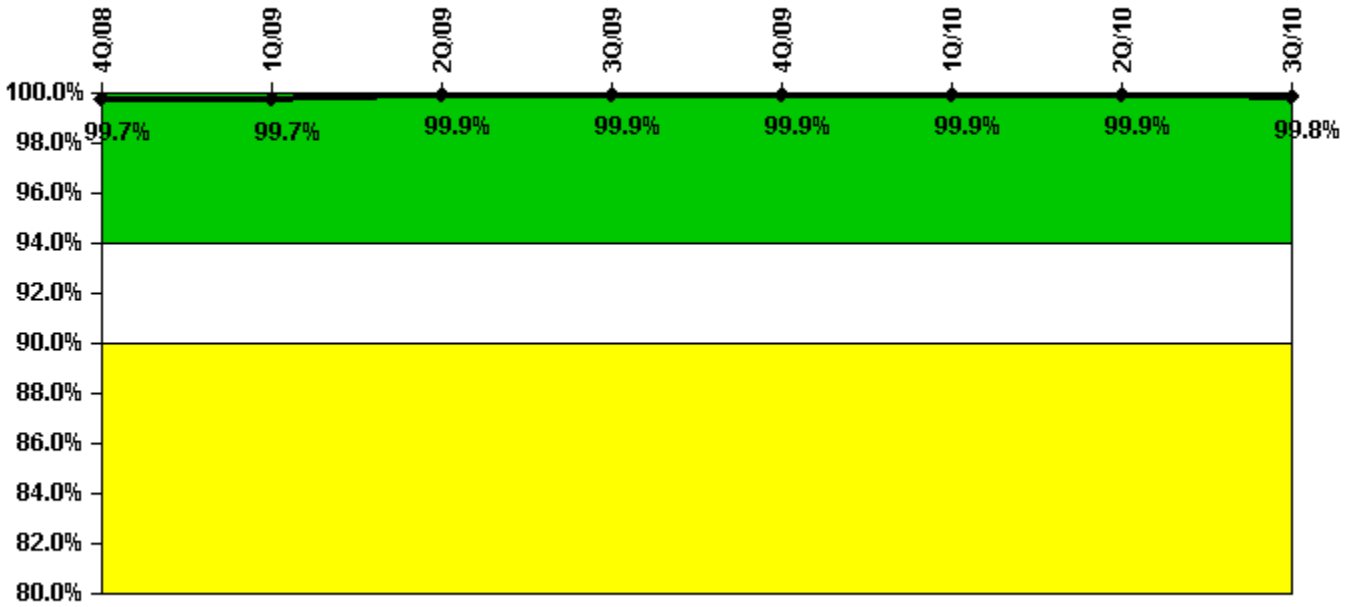
Thresholds: White < 80.0% Yellow < 60.0%

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



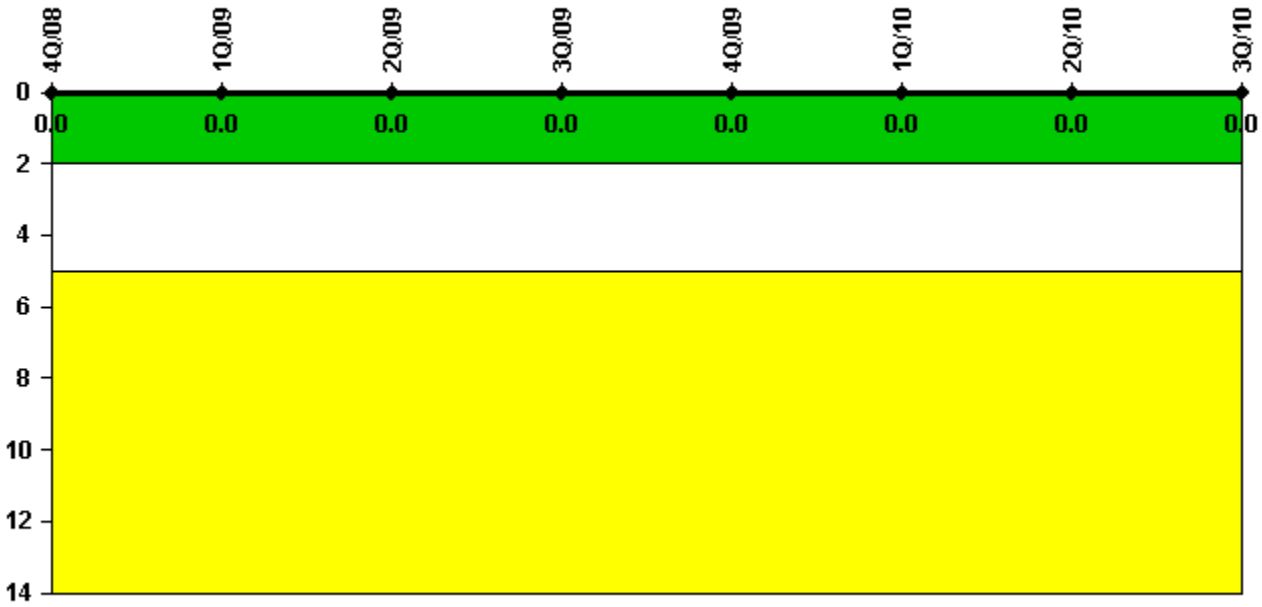
Thresholds: White < 94.0% Yellow < 90.0%

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



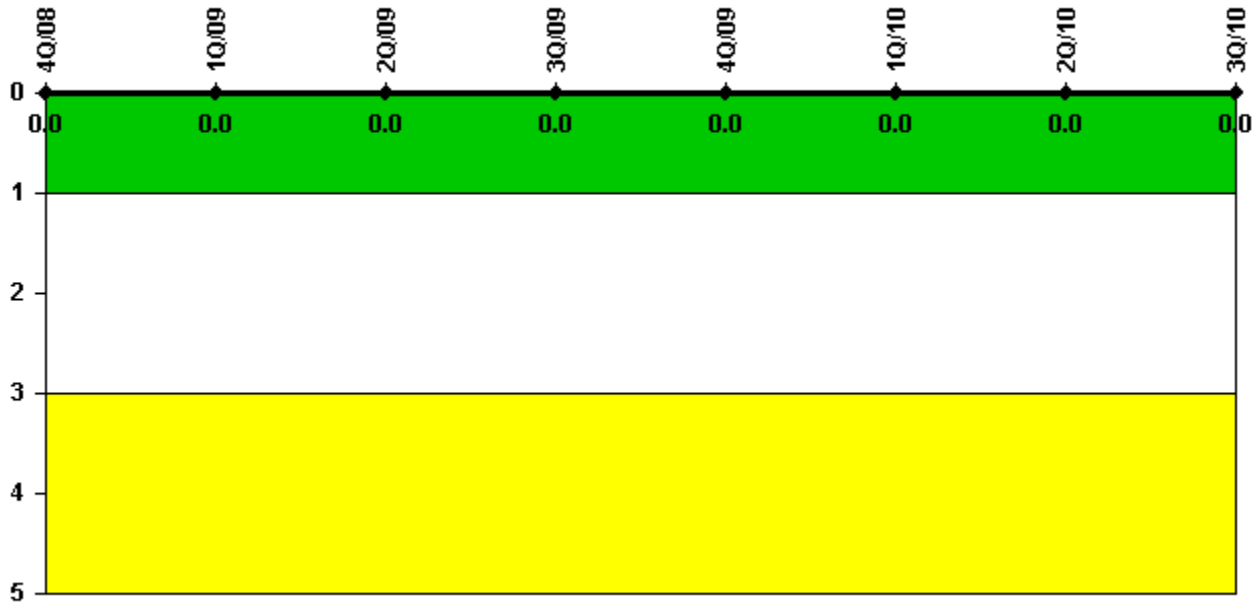
Thresholds: White > 2.0 Yellow > 5.0

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

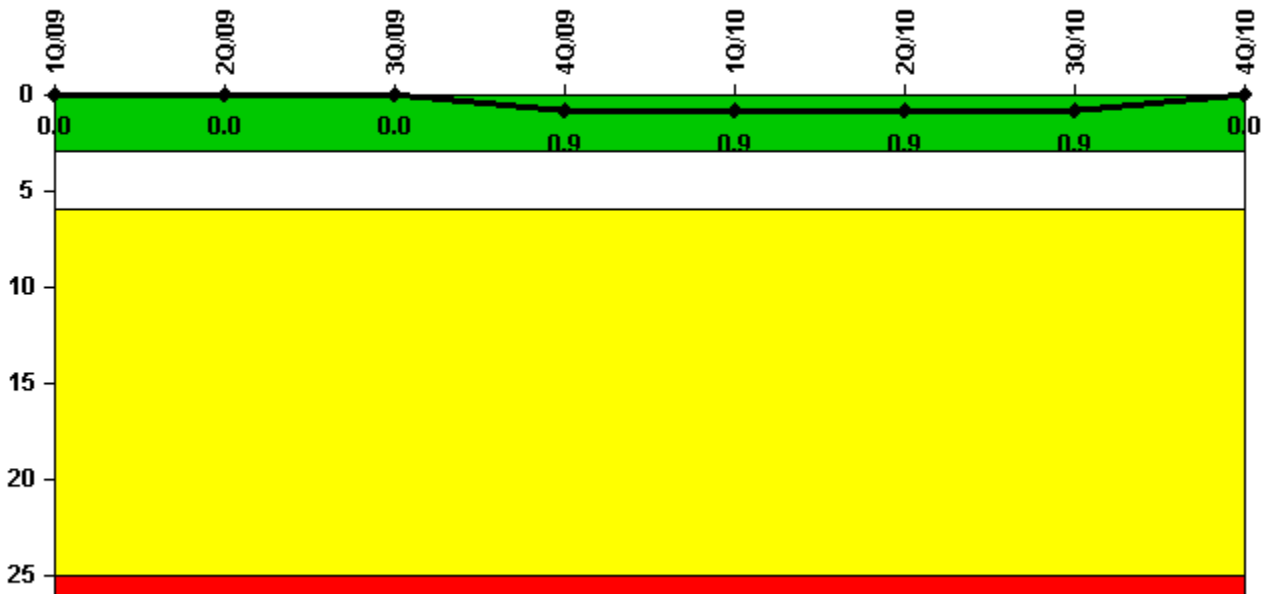
[Security](#) information not publicly available.

Surry 2

4Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



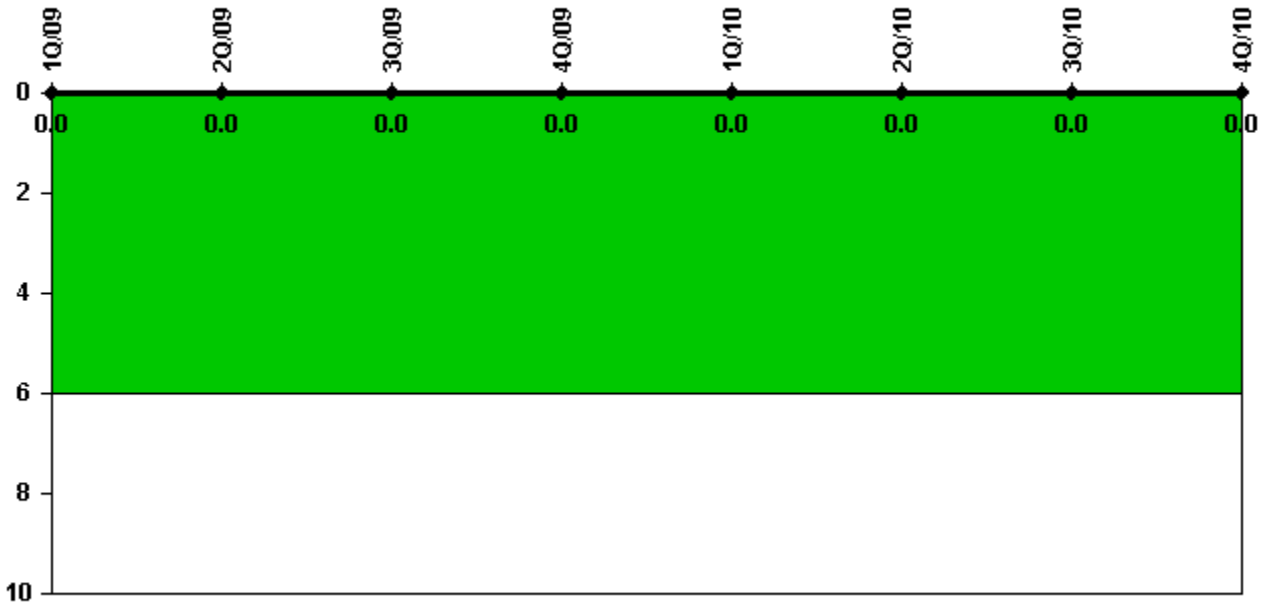
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	1520.0	2159.0	2184.0	2107.9	2209.0
Indicator value	0	0	0	0.9	0.9	0.9	0.9	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



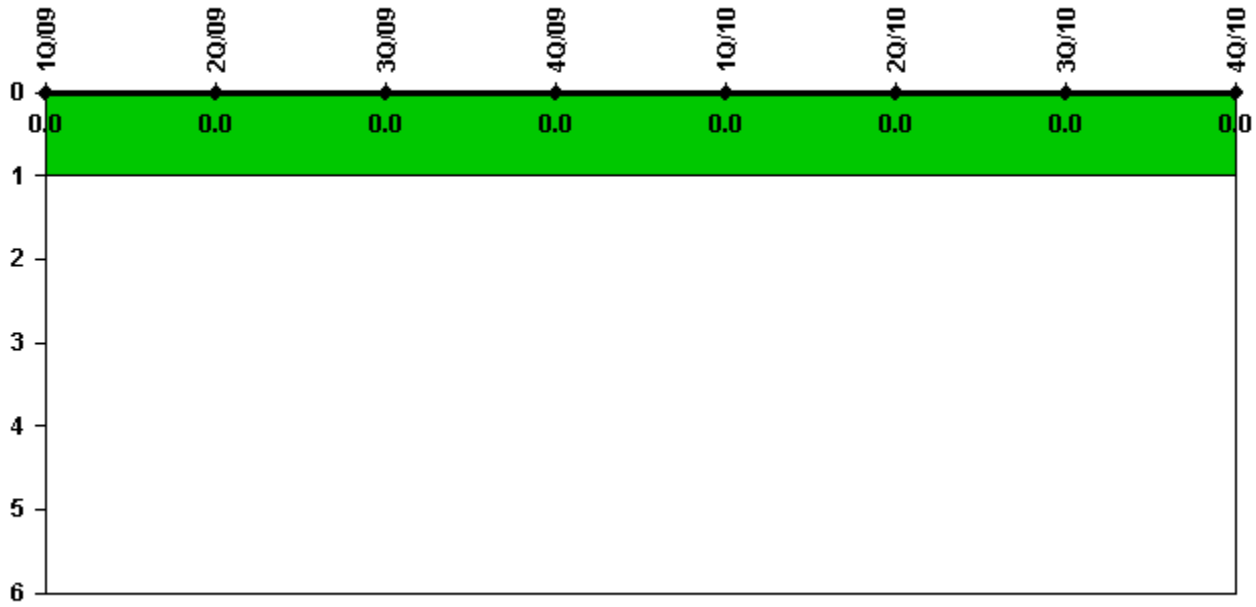
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	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	2184.0	2208.0	1520.0	2159.0	2184.0	2107.9	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



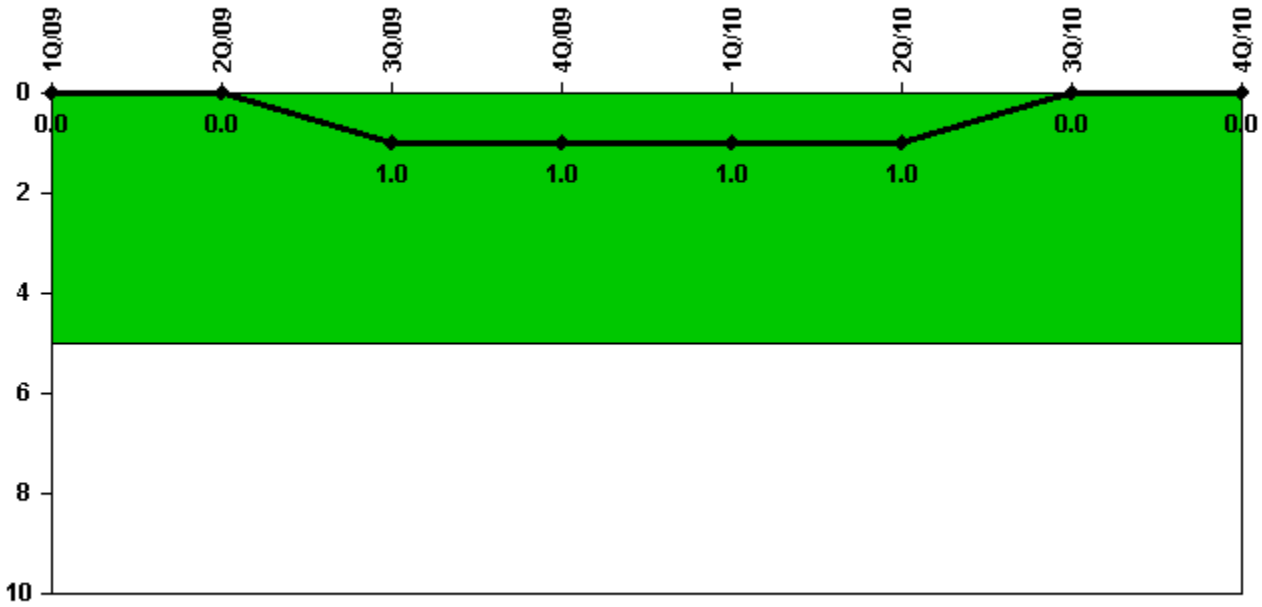
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



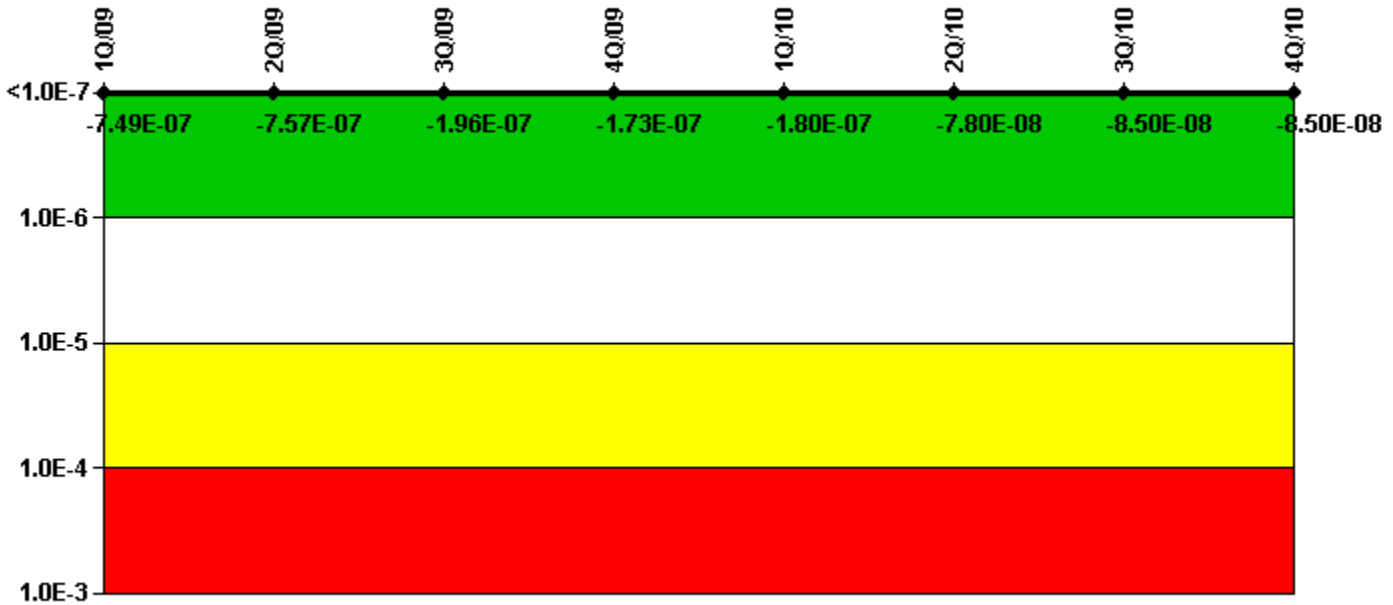
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Safety System Functional Failures	0	0	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



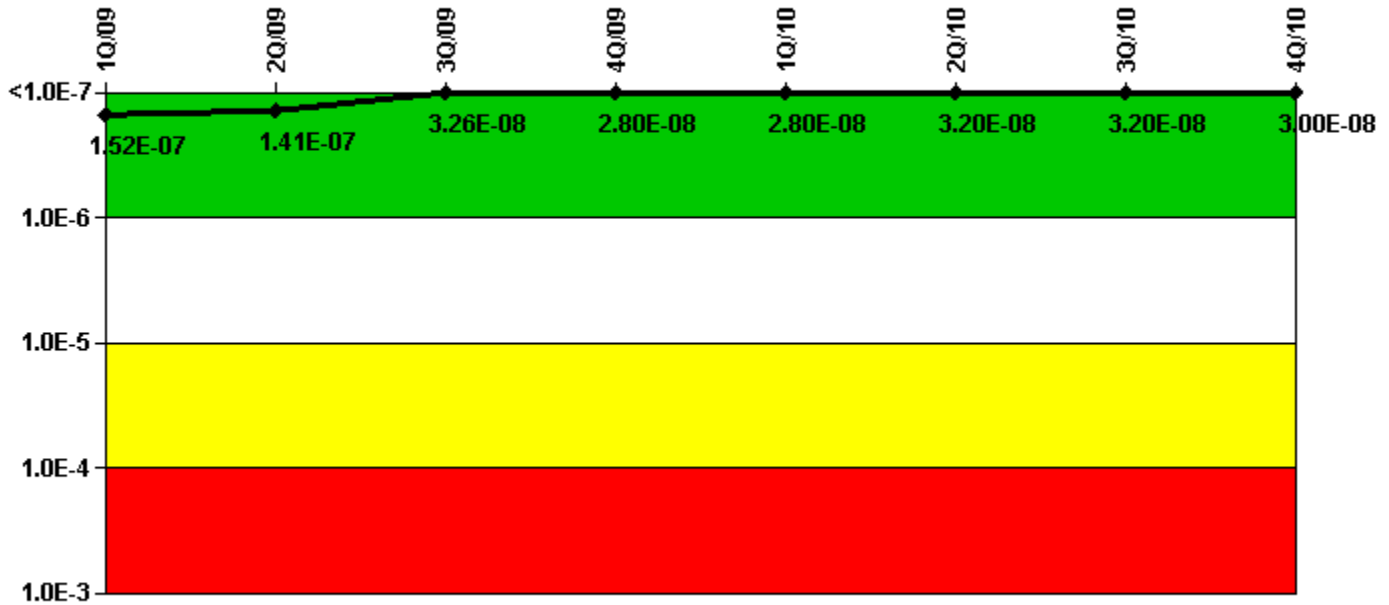
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	3.10E-08	2.30E-08	3.80E-09	7.00E-09	6.61E-09	2.68E-08	1.43E-08	1.50E-08
URI (Δ CDF)	-7.80E-07	-7.80E-07	-2.00E-07	-1.80E-07	-1.88E-07	-1.05E-07	-9.95E-08	-1.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.49E-07	-7.57E-07	-1.96E-07	-1.73E-07	-1.80E-07	-7.80E-08	-8.50E-08	-8.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



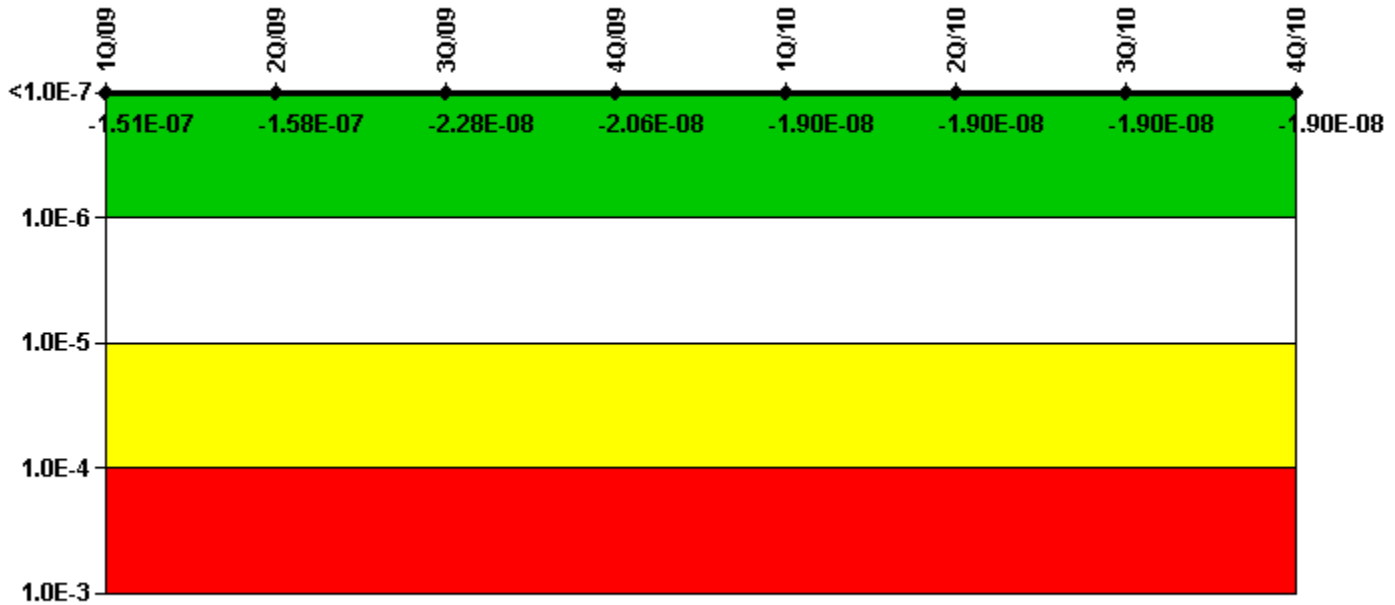
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	1.20E-08	1.10E-08	2.60E-09	-4.60E-11	5.19E-11	4.06E-09	3.92E-09	3.92E-09
URI (Δ CDF)	1.40E-07	1.30E-07	3.00E-08	2.80E-08	2.78E-08	2.80E-08	2.82E-08	2.58E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.52E-07	1.41E-07	3.26E-08	2.80E-08	2.80E-08	3.20E-08	3.20E-08	3.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



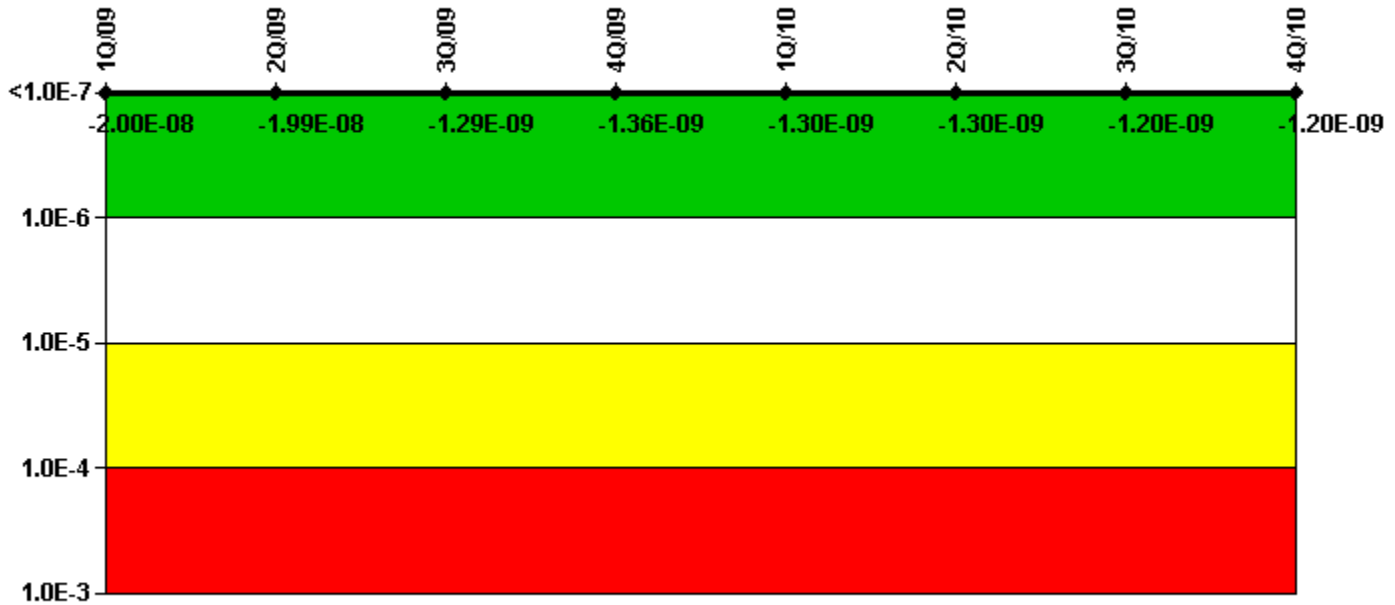
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	-3.10E-08	-2.80E-08	-3.80E-09	-3.60E-09	-3.59E-09	-3.39E-09	-3.43E-09	-3.56E-09
URI (Δ CDF)	-1.20E-07	-1.30E-07	-1.90E-08	-1.70E-08	-1.59E-08	-1.59E-08	-1.59E-08	-1.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.51E-07	-1.58E-07	-2.28E-08	-2.06E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



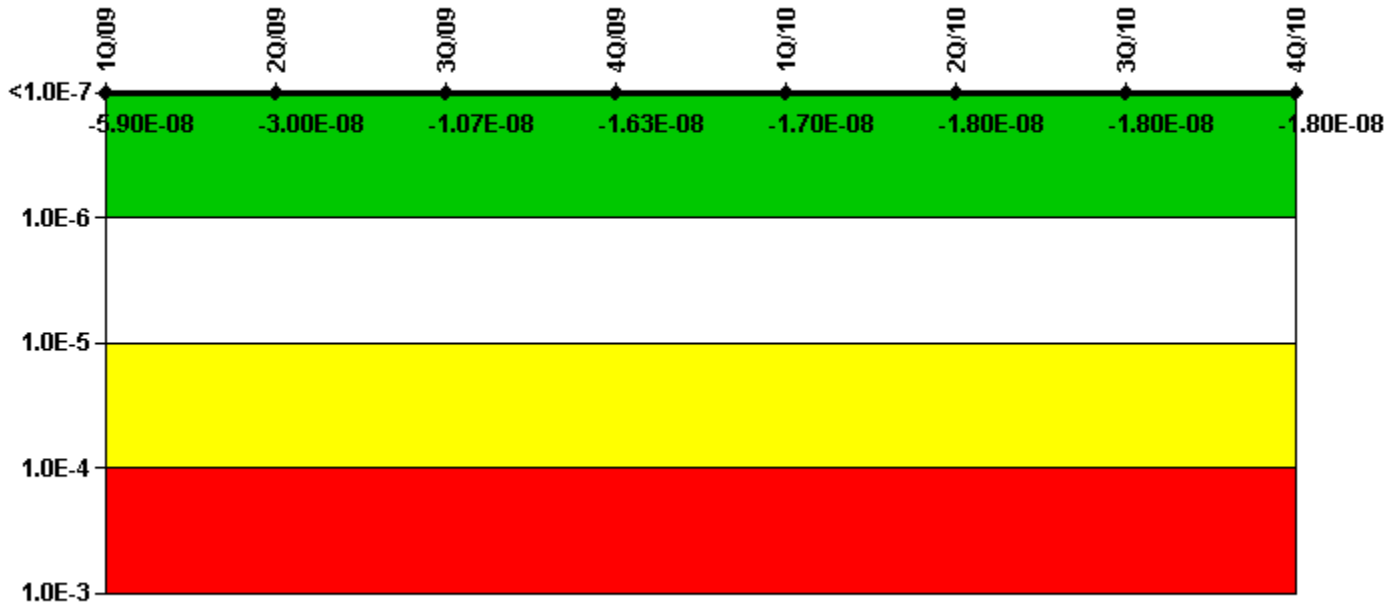
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	-5.00E-09	-4.90E-09	-2.90E-10	-2.60E-10	-2.58E-10	-2.52E-10	-1.94E-10	-1.79E-10
URI (Δ CDF)	-1.50E-08	-1.50E-08	-1.00E-09	-1.10E-09	-1.04E-09	-1.04E-09	-1.04E-09	-1.06E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-08	-1.99E-08	-1.29E-09	-1.36E-09	-1.30E-09	-1.30E-09	-1.20E-09	-1.20E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



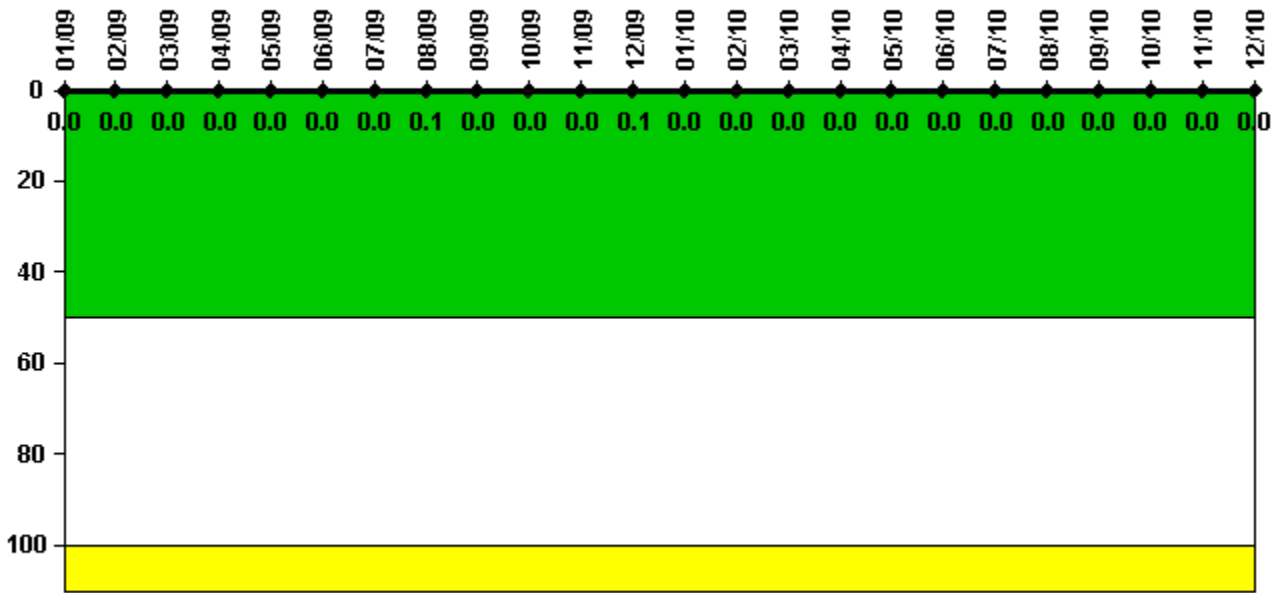
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	9.10E-08	1.20E-07	9.30E-09	3.70E-09	3.43E-09	3.24E-09	3.50E-09	3.57E-09
URI (Δ CDF)	-1.50E-07	-1.50E-07	-2.00E-08	-2.00E-08	-1.99E-08	-2.09E-08	-2.13E-08	-2.18E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.90E-08	-3.00E-08	-1.07E-08	-1.63E-08	-1.70E-08	-1.80E-08	-1.80E-08	-1.80E-08

Licensee Comments: none

Reactor Coolant System Activity



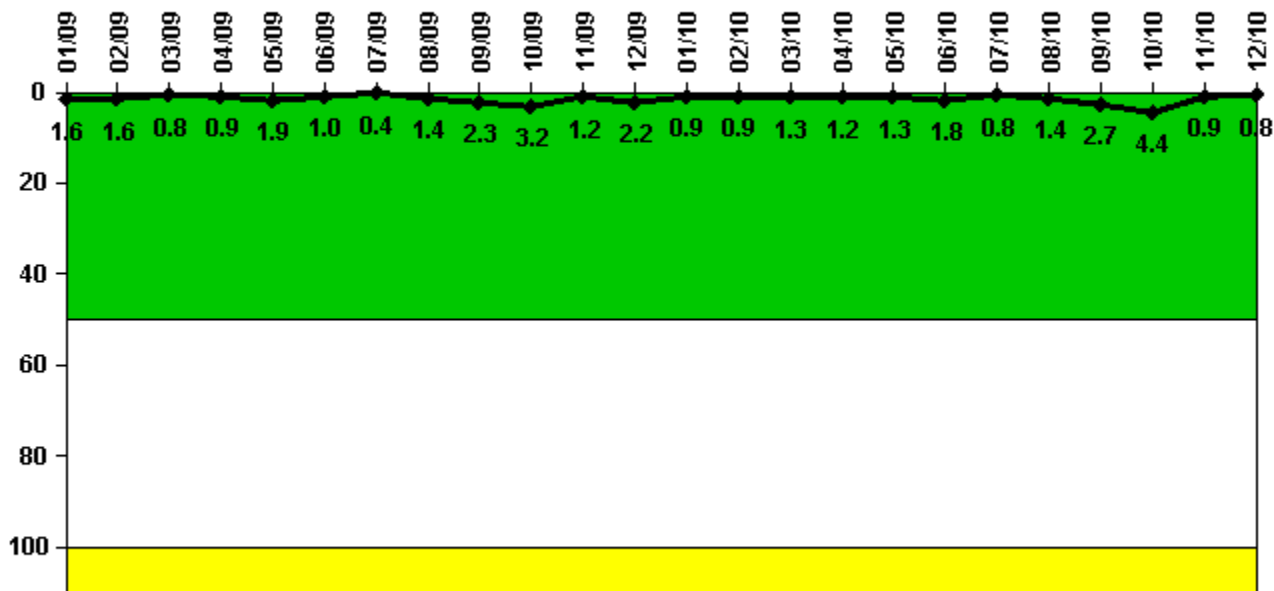
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum activity	0.000237	0.000229	0.000239	0.000256	0.000234	0.000237	0.000327	0.000572	0.000318	0.000279	0.000037	0.000664
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0.1	0	0	0	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	0.000161	0.000185	0.000263	0.000236	0.000248	0.000204	0.000375	0.000316	0.000209	0.000270	0.000219	0.000250
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



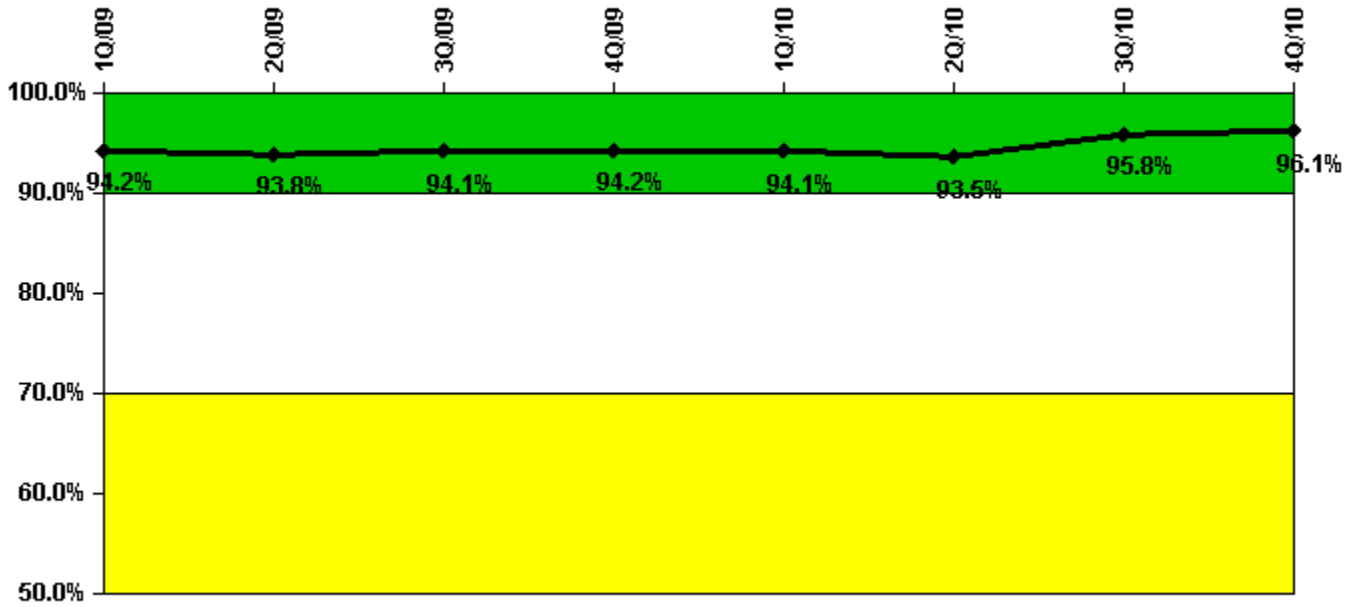
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum leakage	0.160	0.160	0.080	0.090	0.190	0.100	0.040	0.140	0.230	0.320	0.120	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	1.6	1.6	0.8	0.9	1.9	1.0	0.4	1.4	2.3	3.2	1.2	2.2
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	0.090	0.090	0.130	0.120	0.130	0.180	0.080	0.140	0.270	0.440	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	0.9	0.9	1.3	1.2	1.3	1.8	0.8	1.4	2.7	4.4	0.9	0.8

Licensee Comments: none

Drill/Exercise Performance



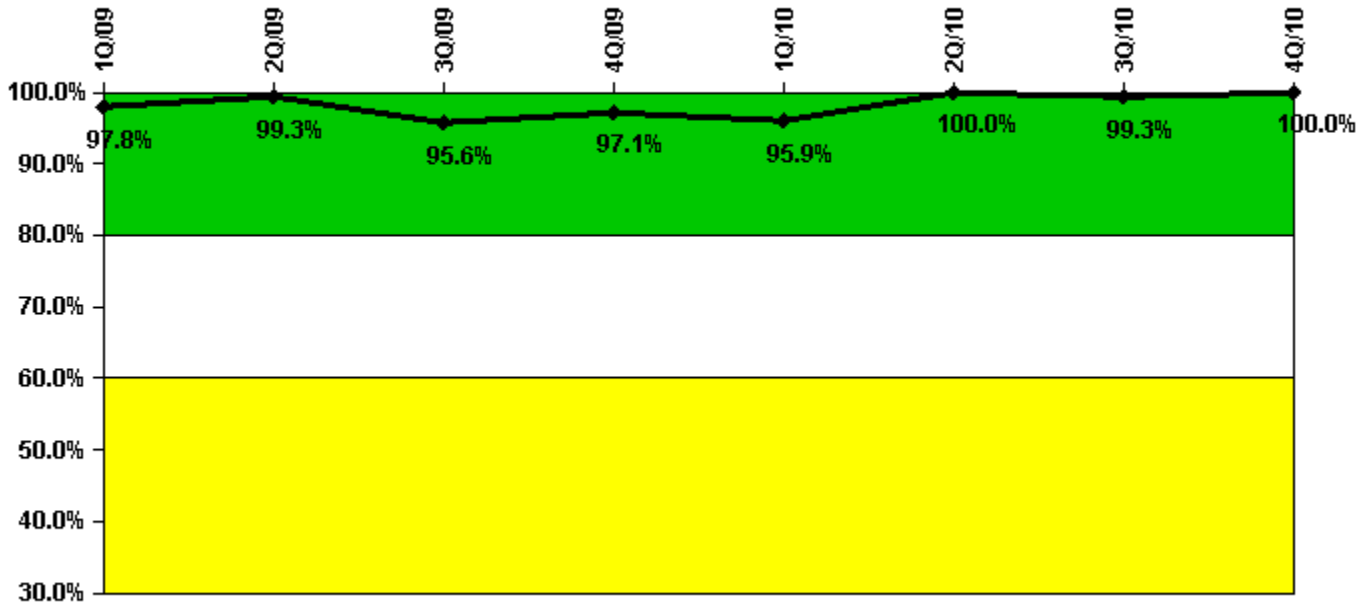
Thresholds: White < 90.0% Yellow < 70.0%

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



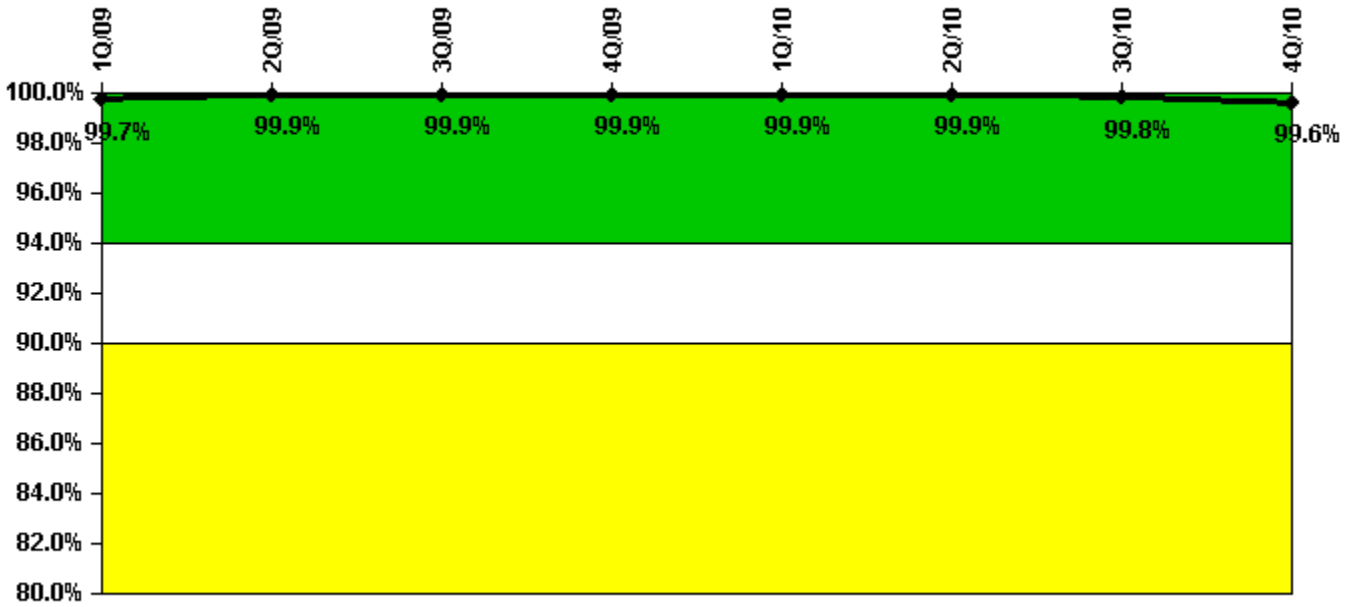
Thresholds: White < 80.0% Yellow < 60.0%

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



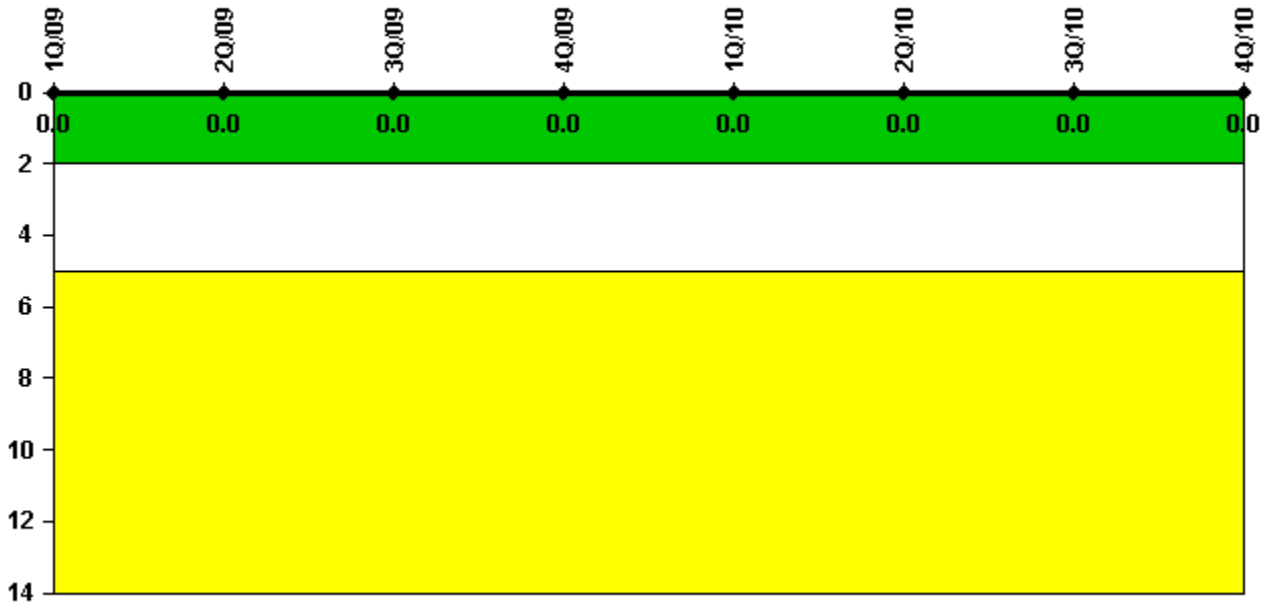
Thresholds: White < 94.0% Yellow < 90.0%

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



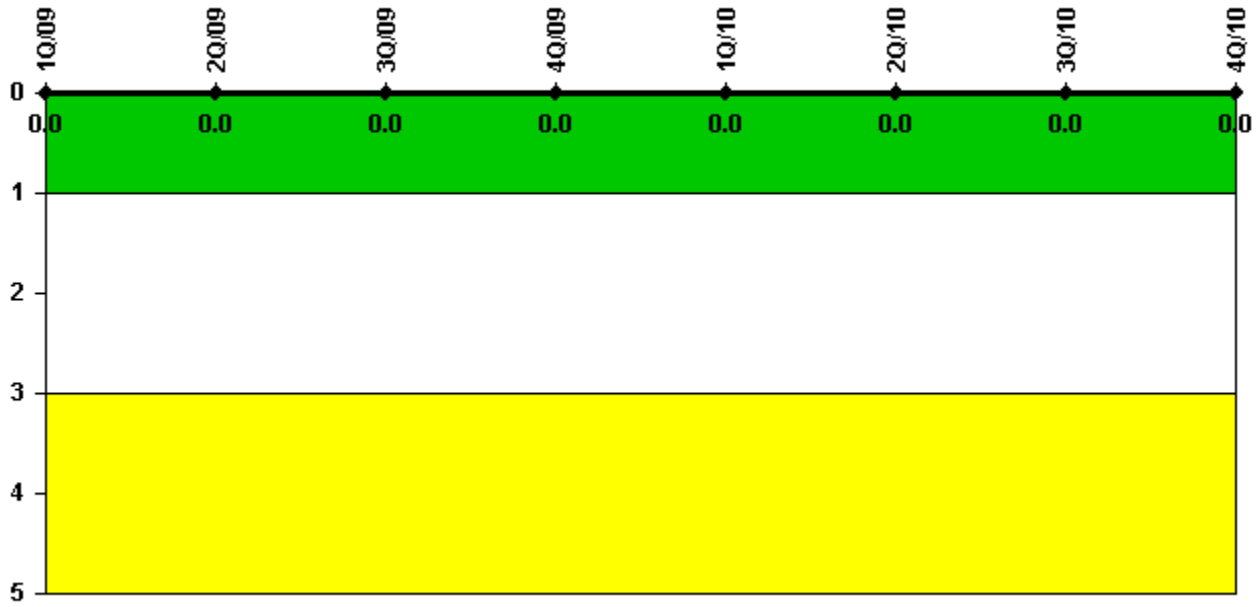
Thresholds: White > 2.0 Yellow > 5.0

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

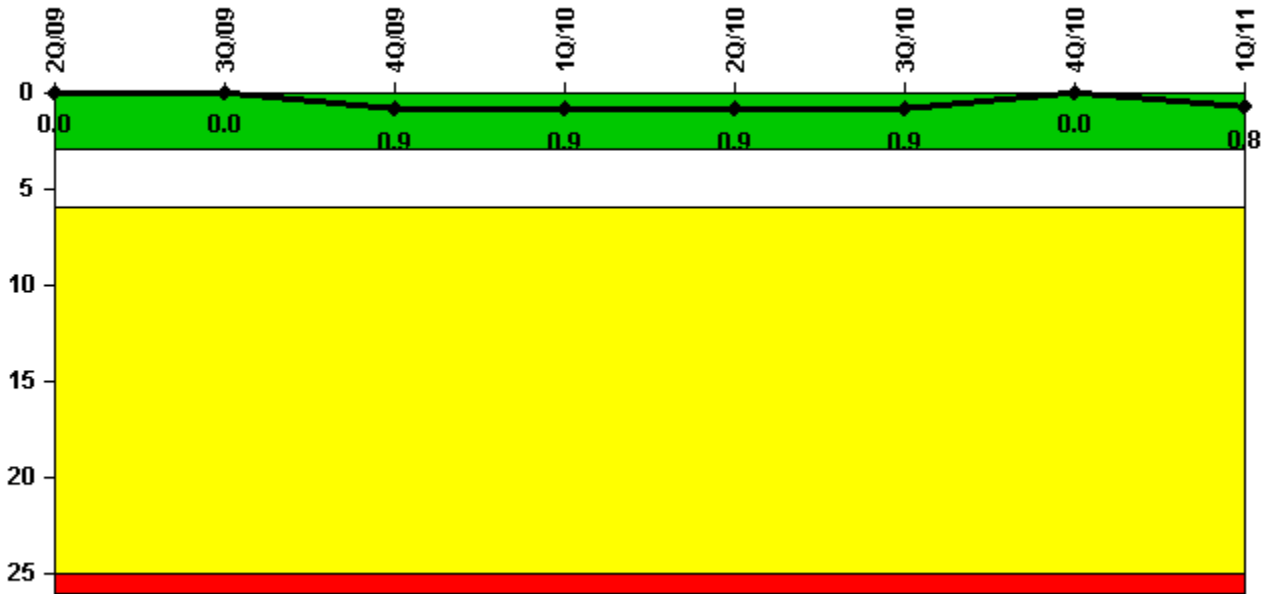
[Security](#) information not publicly available.

Surry 2

1Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



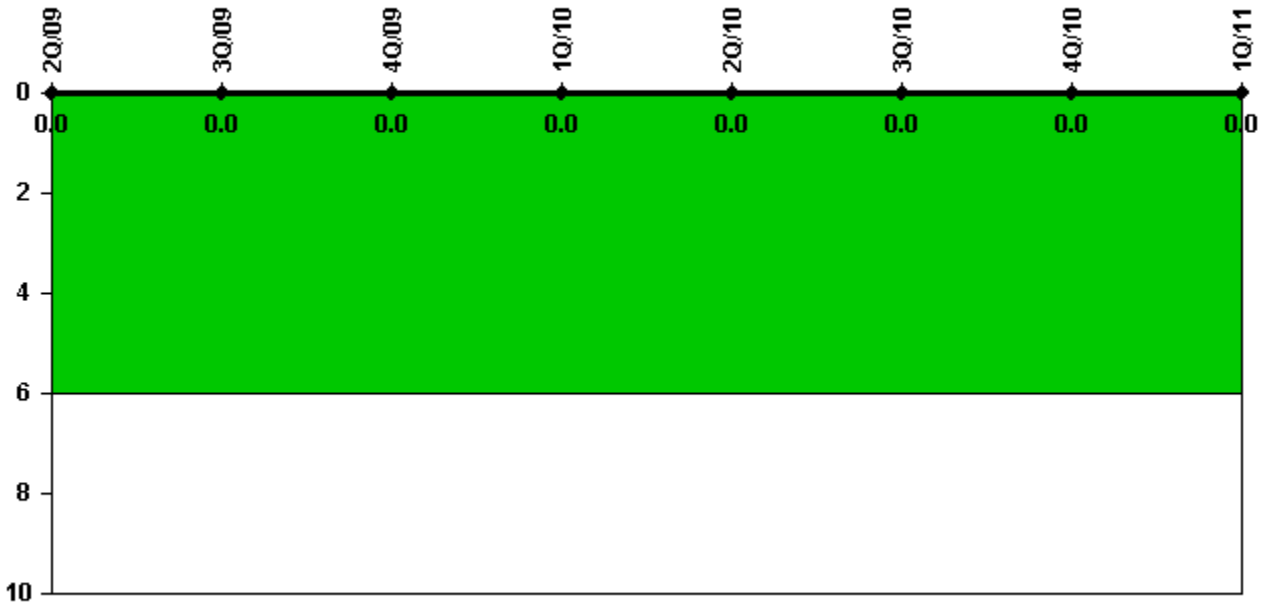
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned scrams	0	0	1.0	0	0	0	0	1.0
Critical hours	2184.0	2208.0	1520.0	2159.0	2184.0	2107.9	2209.0	1789.4
Indicator value	0	0	0.9	0.9	0.9	0.9	0	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



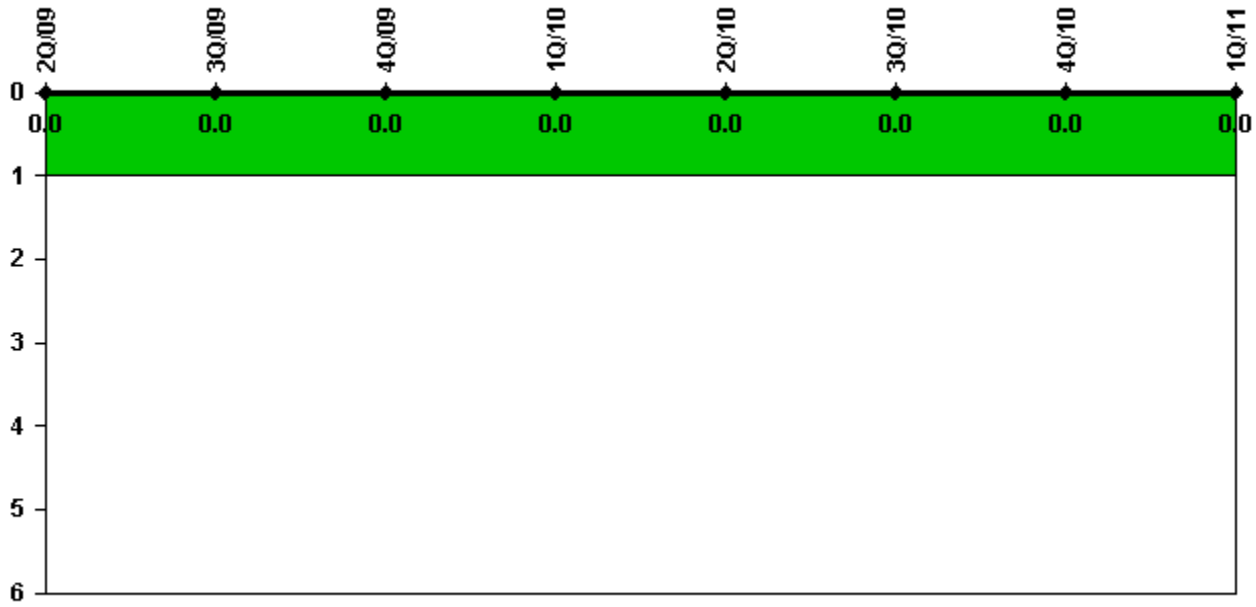
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	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	2184.0	2208.0	1520.0	2159.0	2184.0	2107.9	2209.0	1789.4
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



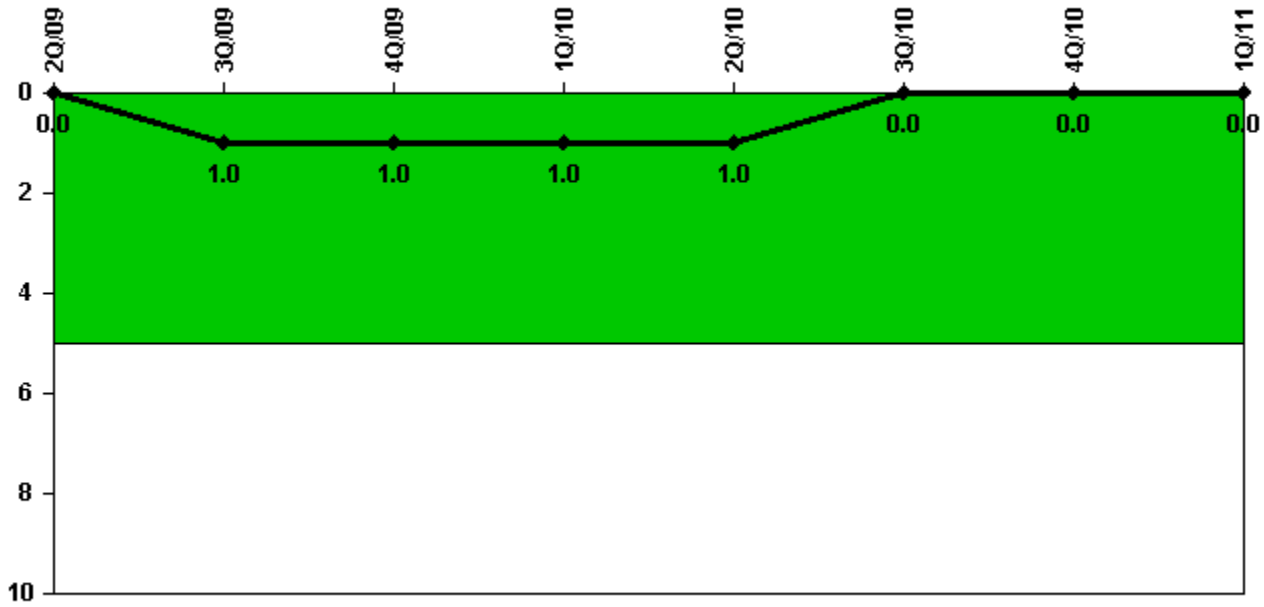
Thresholds: White > 1.0

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	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Safety System Functional Failures	0	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

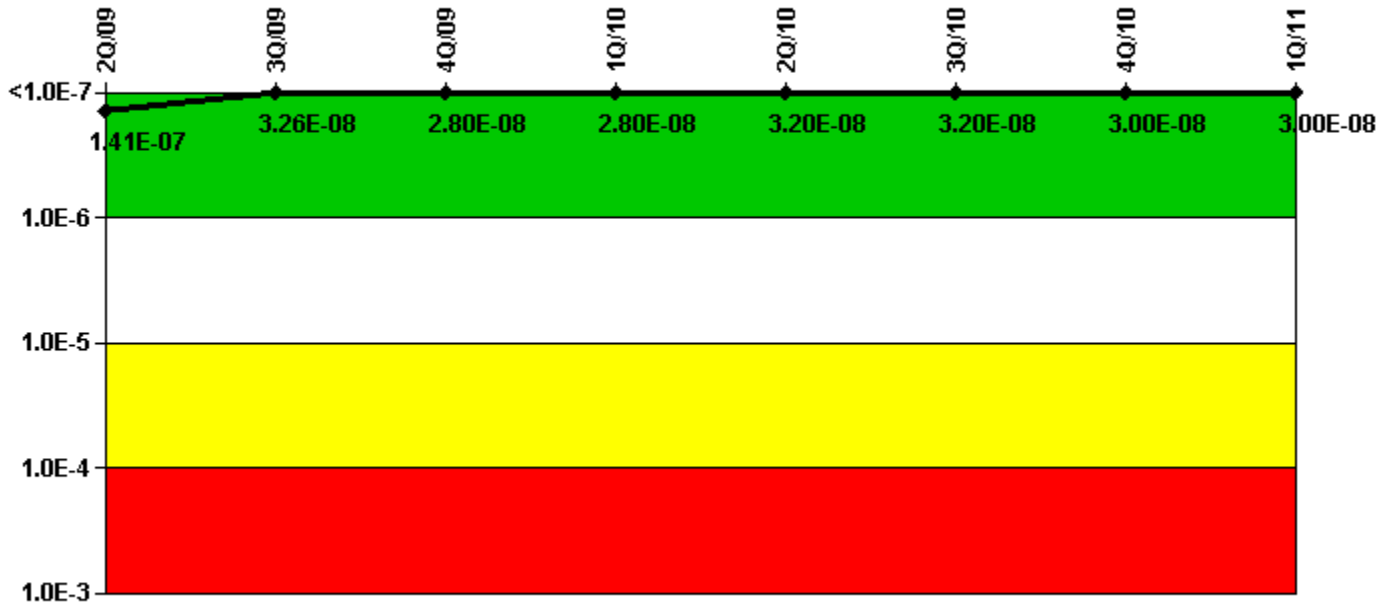
Notes

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)	-4.93E-08	-9.44E-09	2.06E-09	1.72E-09	2.19E-08	9.34E-09	1.01E-08	-2.16E-09
URI (Δ CDF)	-7.45E-07	-1.85E-07	-1.71E-07	-1.71E-07	-7.78E-08	-7.06E-08	-7.12E-08	-6.72E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.90E-07	-1.90E-07	-1.70E-07	-1.70E-07	-5.60E-08	-6.10E-08	-6.10E-08	-6.90E-08

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



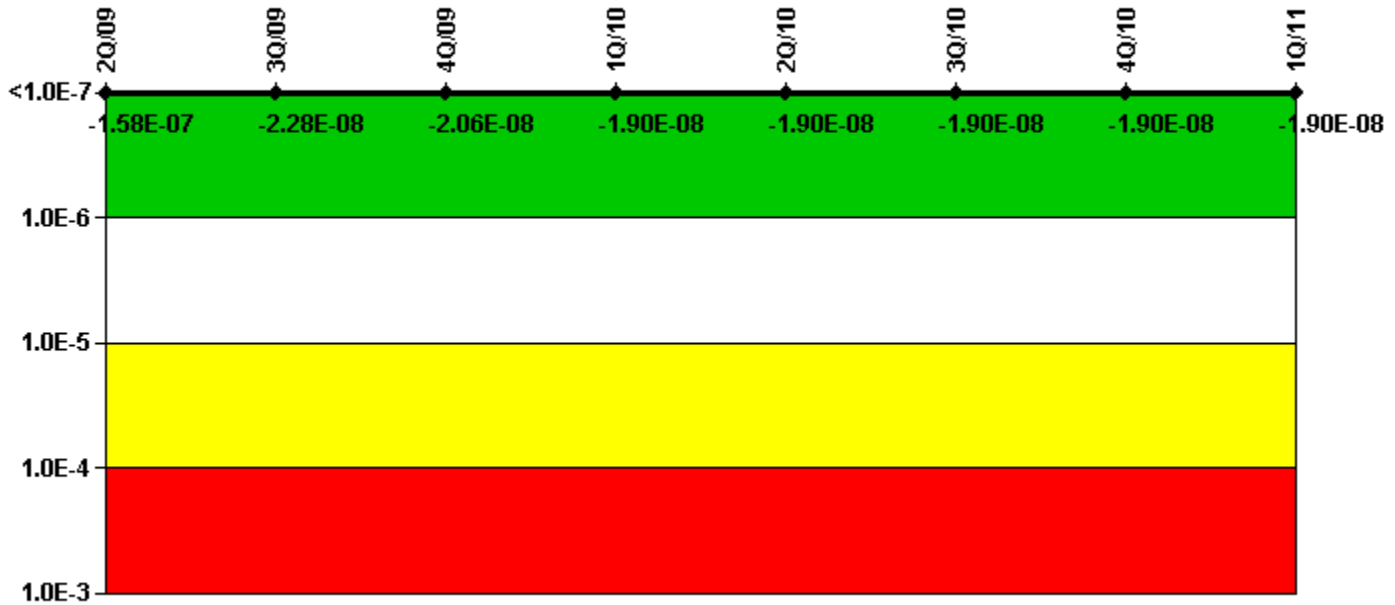
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.10E-08	2.60E-09	-4.60E-11	5.19E-11	4.06E-09	3.92E-09	3.92E-09	4.47E-09
URI (Δ CDF)	1.30E-07	3.00E-08	2.80E-08	2.78E-08	2.80E-08	2.82E-08	2.58E-08	2.57E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.41E-07	3.26E-08	2.80E-08	2.80E-08	3.20E-08	3.20E-08	3.00E-08	3.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



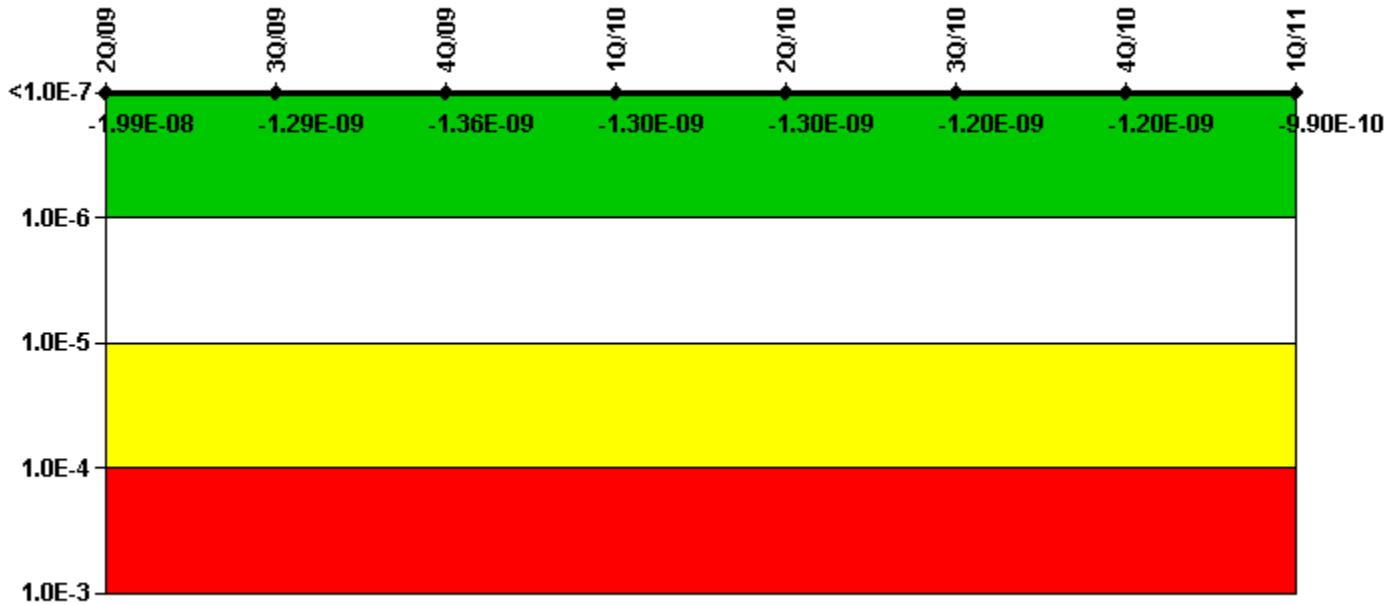
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	-2.80E-08	-3.80E-09	-3.60E-09	-3.59E-09	-3.39E-09	-3.43E-09	-3.56E-09	-2.36E-09
URI (Δ CDF)	-1.30E-07	-1.90E-08	-1.70E-08	-1.59E-08	-1.59E-08	-1.59E-08	-1.59E-08	-1.65E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.58E-07	-2.28E-08	-2.06E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



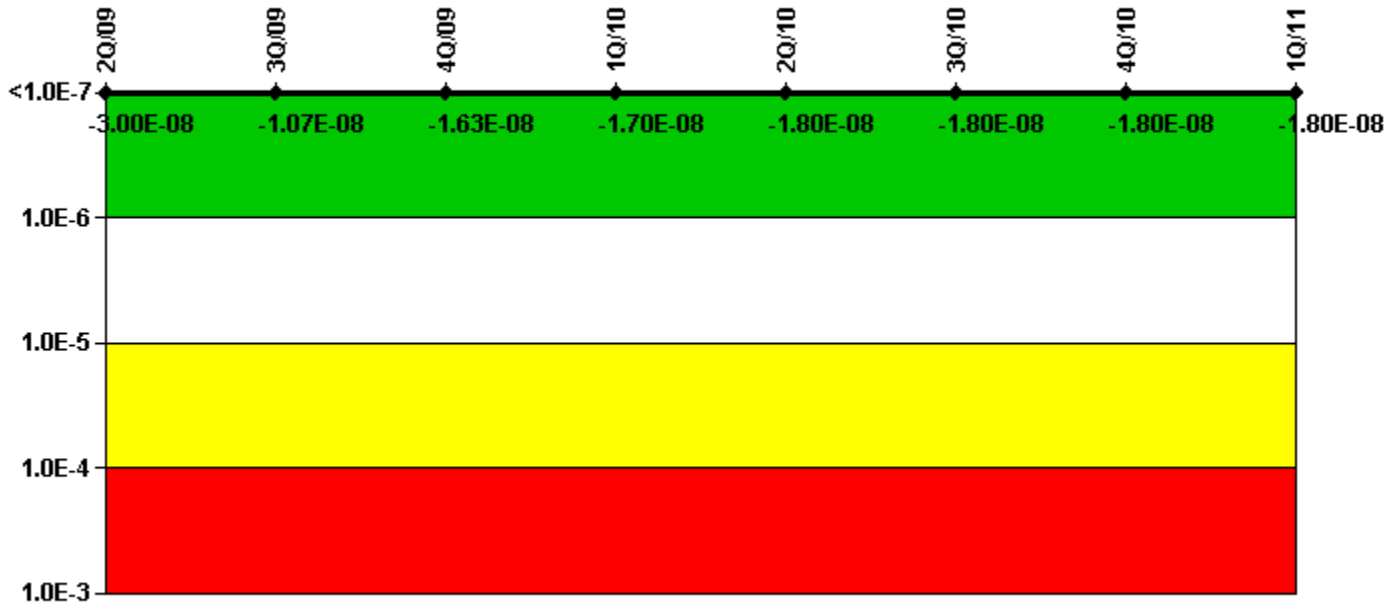
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	-4.90E-09	-2.90E-10	-2.60E-10	-2.58E-10	-2.52E-10	-1.94E-10	-1.79E-10	9.76E-11
URI (Δ CDF)	-1.50E-08	-1.00E-09	-1.10E-09	-1.04E-09	-1.04E-09	-1.04E-09	-1.06E-09	-1.08E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.99E-08	-1.29E-09	-1.36E-09	-1.30E-09	-1.30E-09	-1.20E-09	-1.20E-09	-9.90E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



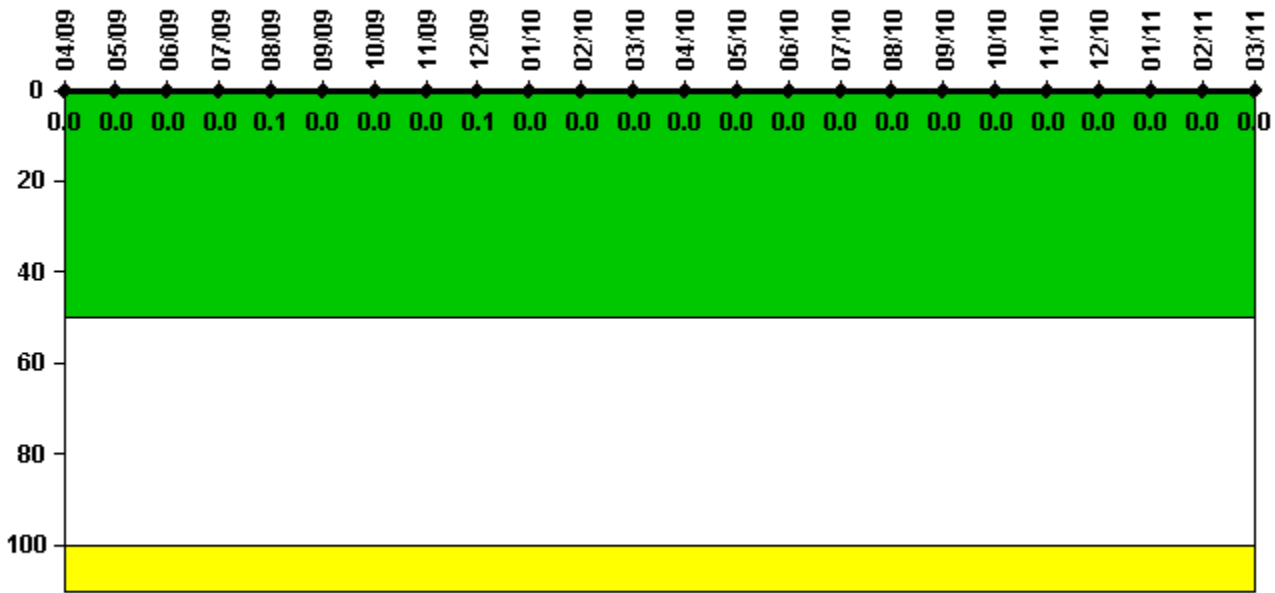
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	1.20E-07	9.30E-09	3.70E-09	3.43E-09	3.24E-09	3.50E-09	3.57E-09	4.37E-09
URI (ΔCDF)	-1.50E-07	-2.00E-08	-2.00E-08	-1.99E-08	-2.09E-08	-2.13E-08	-2.18E-08	-2.23E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.00E-08	-1.07E-08	-1.63E-08	-1.70E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08

Licensee Comments: none

Reactor Coolant System Activity



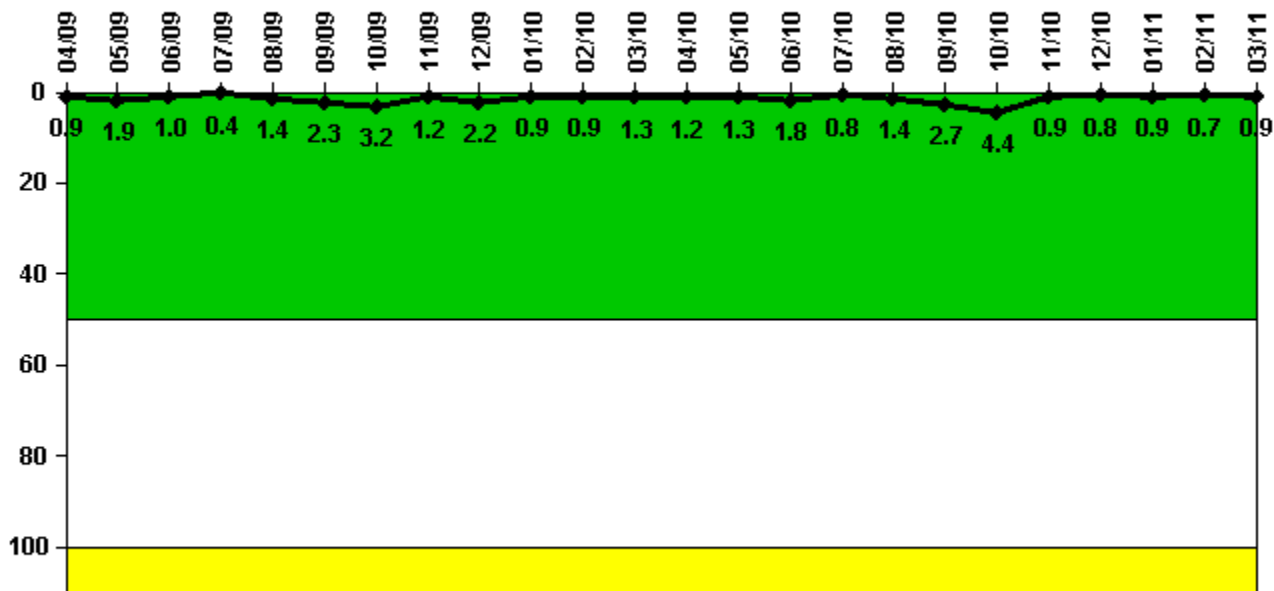
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum activity	0.000256	0.000234	0.000237	0.000327	0.000572	0.000318	0.000279	0.000037	0.000664	0.000161	0.000185	0.000263
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0.1	0	0	0	0.1	0	0	0
Reactor Coolant System Activity	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum activity	0.000236	0.000248	0.000204	0.000375	0.000316	0.000209	0.000270	0.000219	0.000250	0.000256	0.000266	0.000277
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



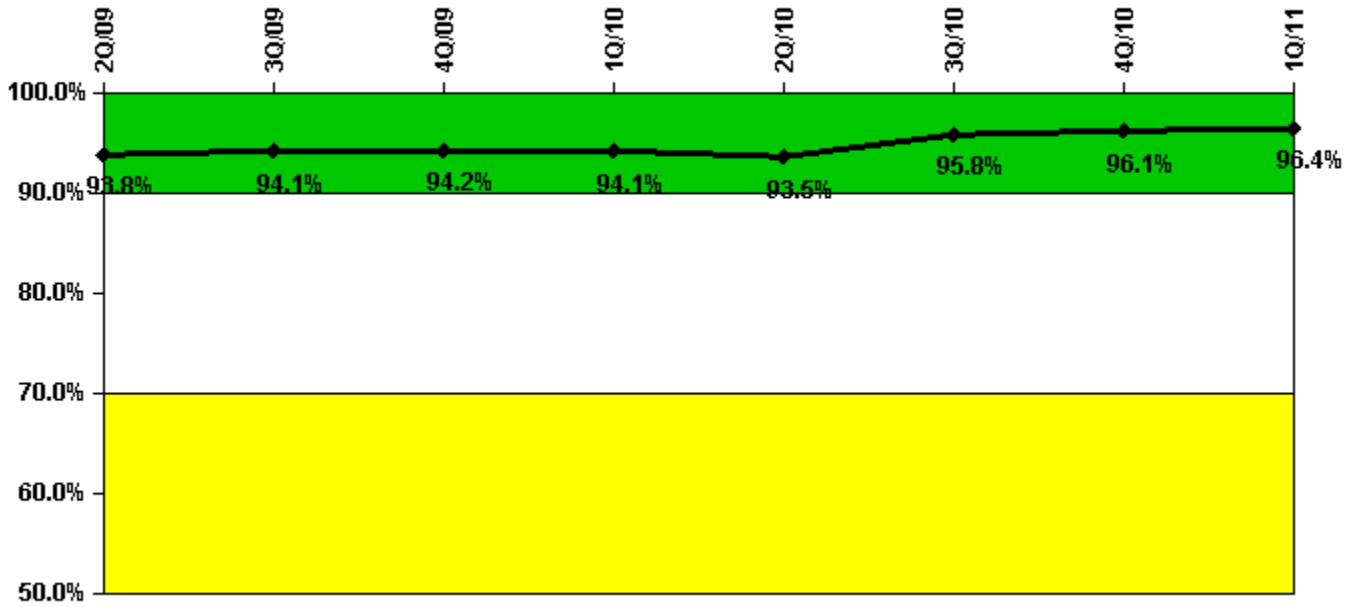
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum leakage	0.090	0.190	0.100	0.040	0.140	0.230	0.320	0.120	0.220	0.090	0.090	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	1.9	1.0	0.4	1.4	2.3	3.2	1.2	2.2	0.9	0.9	1.3
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	0.120	0.130	0.180	0.080	0.140	0.270	0.440	0.090	0.080	0.090	0.070	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	1.3	1.8	0.8	1.4	2.7	4.4	0.9	0.8	0.9	0.7	0.9

Licensee Comments: none

Drill/Exercise Performance



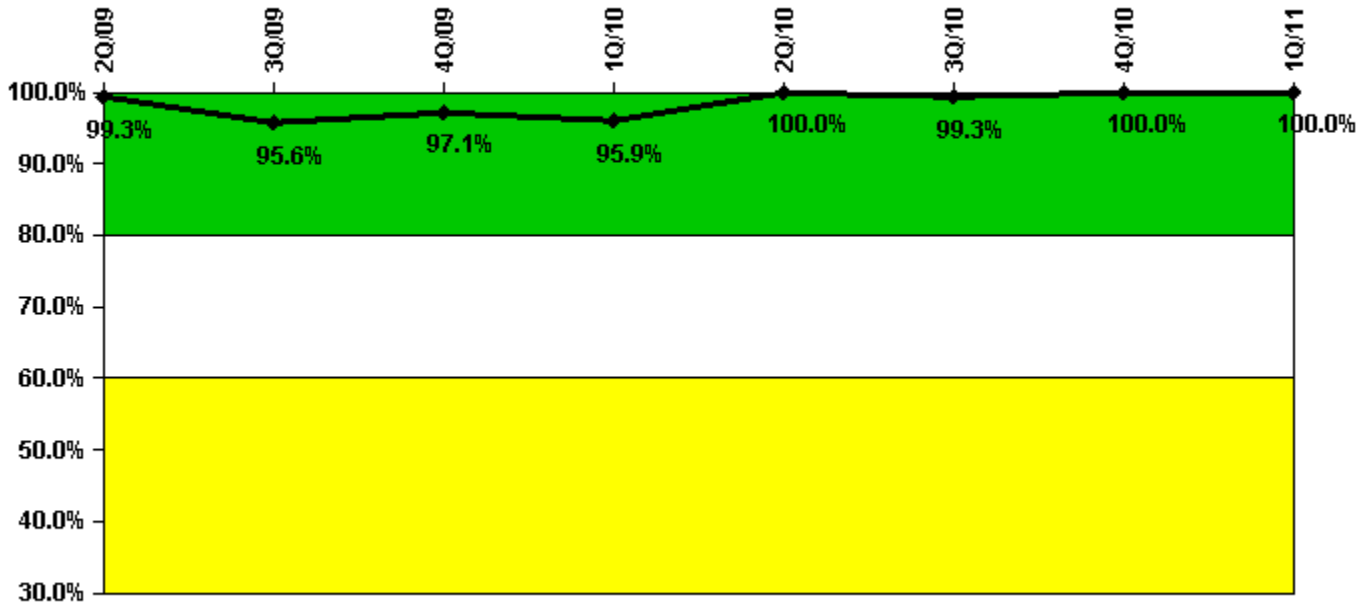
Thresholds: White < 90.0% Yellow < 70.0%

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



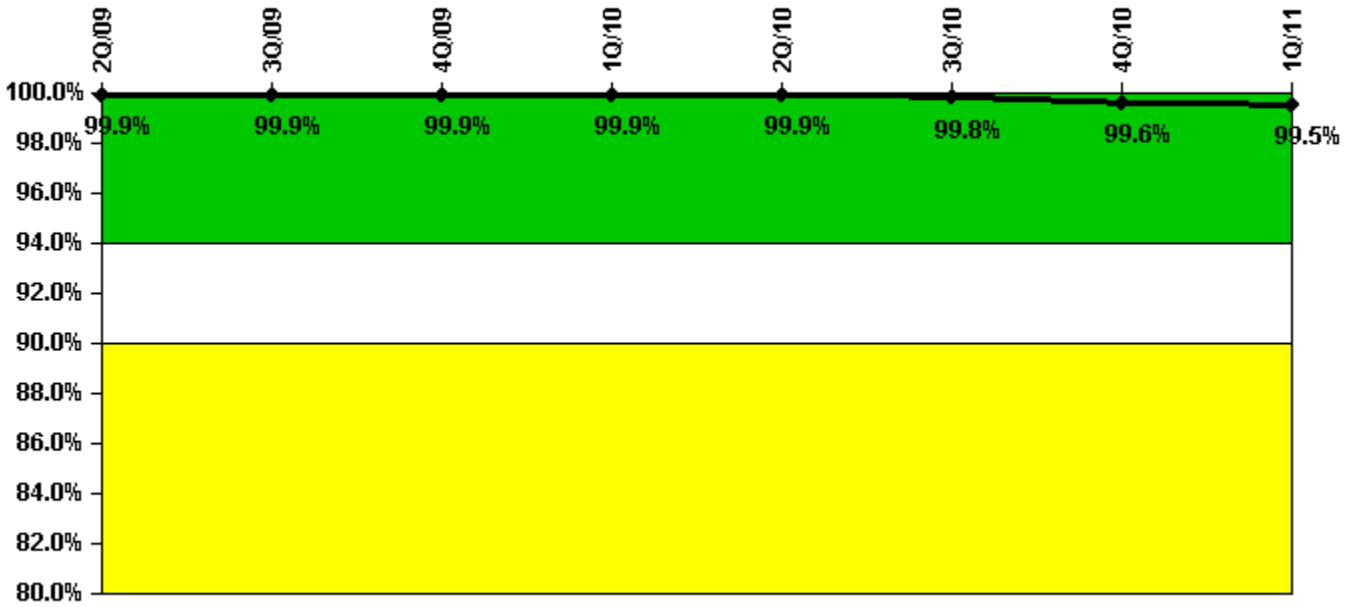
Thresholds: White < 80.0% Yellow < 60.0%

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



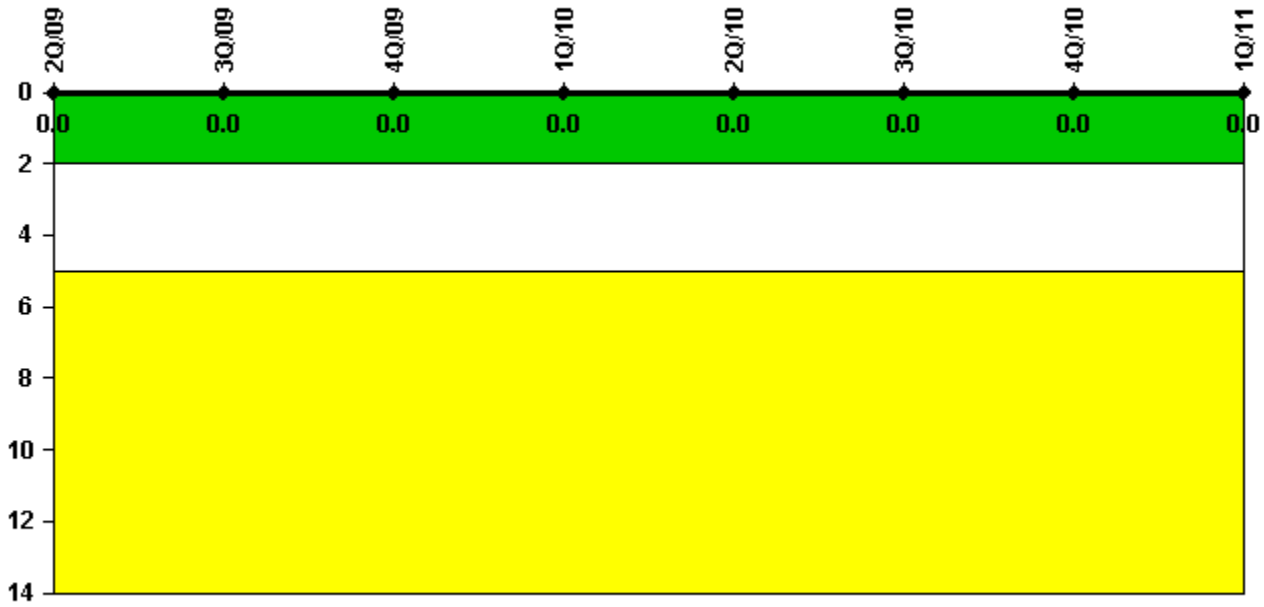
Thresholds: White < 94.0% Yellow < 90.0%

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



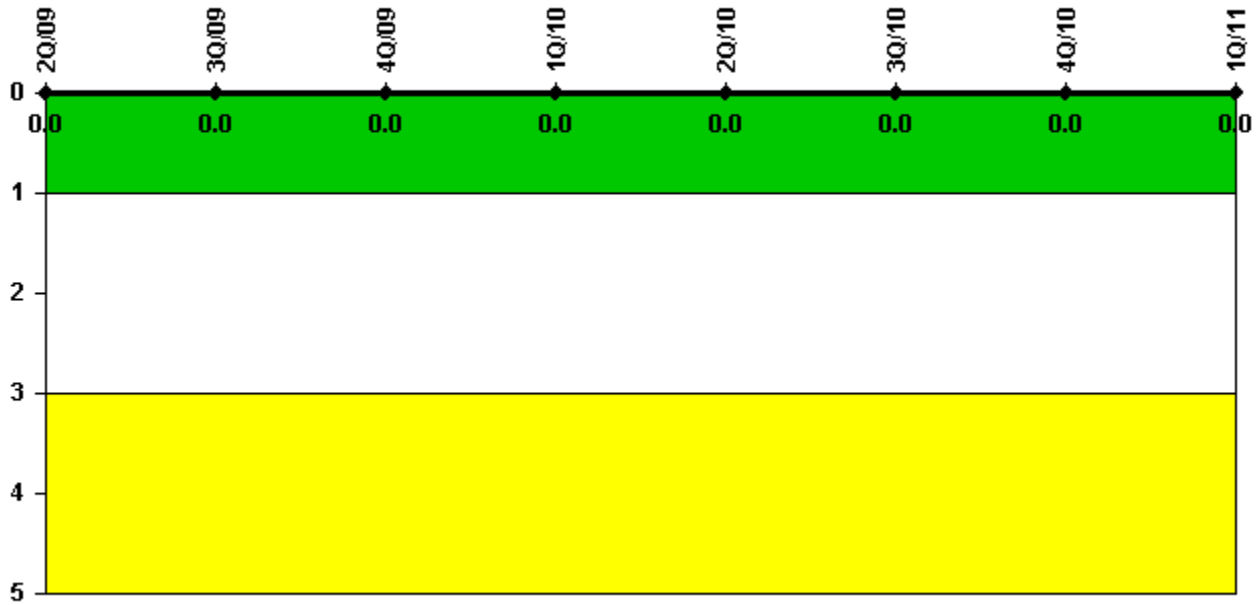
Thresholds: White > 2.0 Yellow > 5.0

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.

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

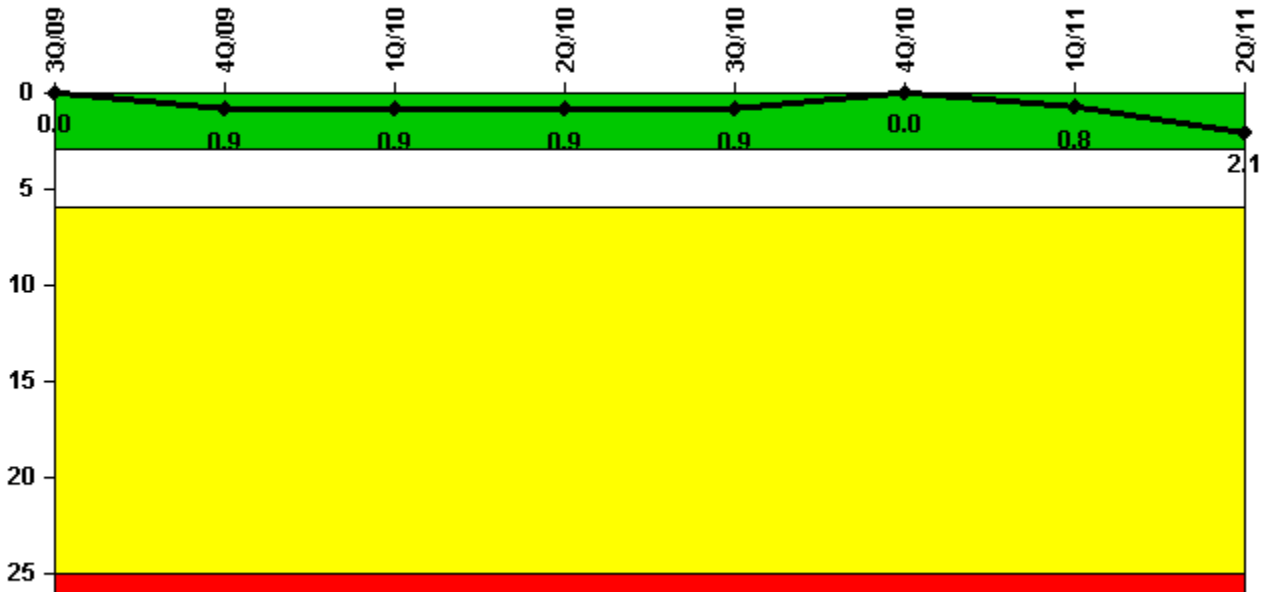
Last Modified: May 4, 2011

Surry 2

2Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



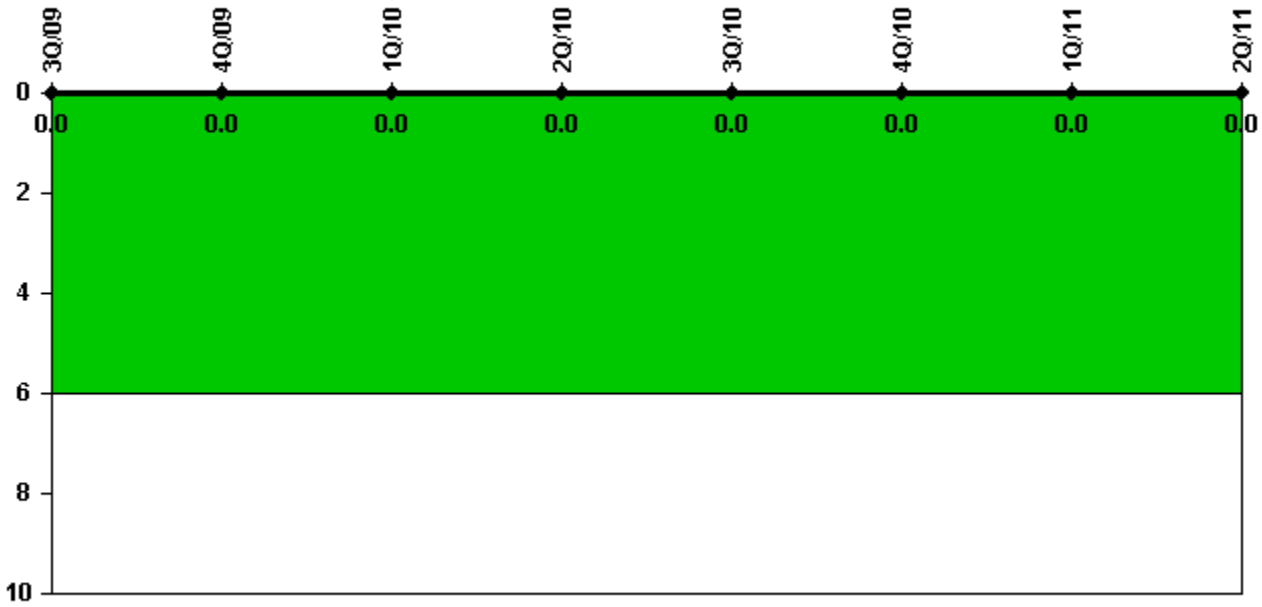
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned scrams	0	1.0	0	0	0	0	1.0	1.0
Critical hours	2208.0	1520.0	2159.0	2184.0	2107.9	2209.0	1789.4	623.8
Indicator value	0	0.9	0.9	0.9	0.9	0	0.8	2.1

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



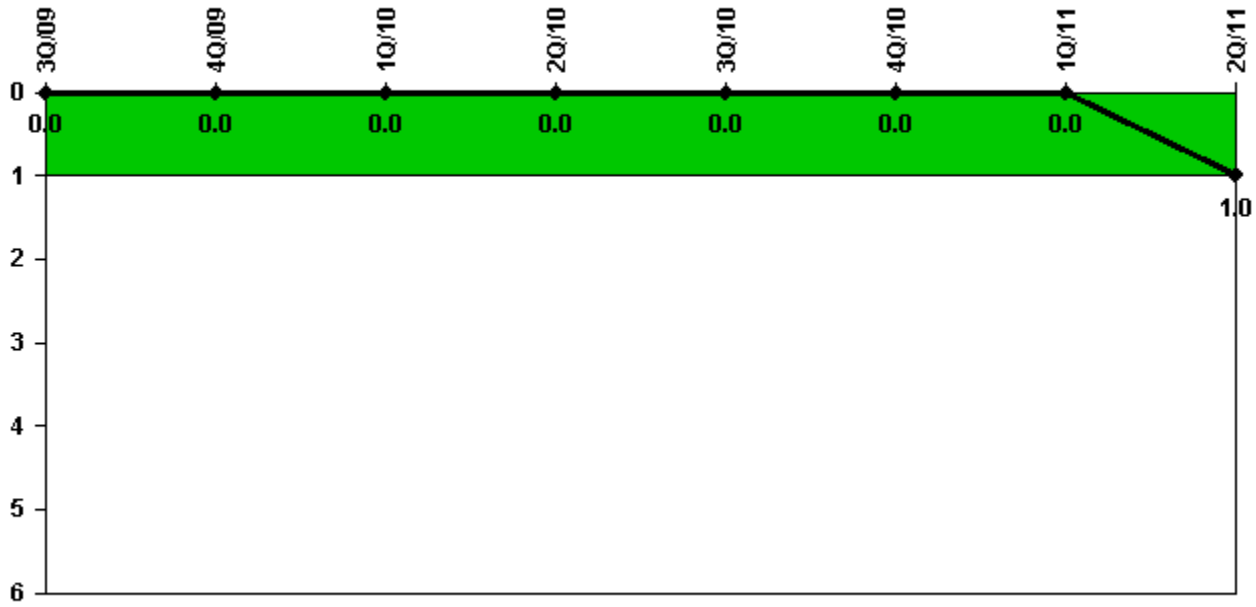
Thresholds: White > 6.0

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	1520.0	2159.0	2184.0	2107.9	2209.0	1789.4	623.8
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



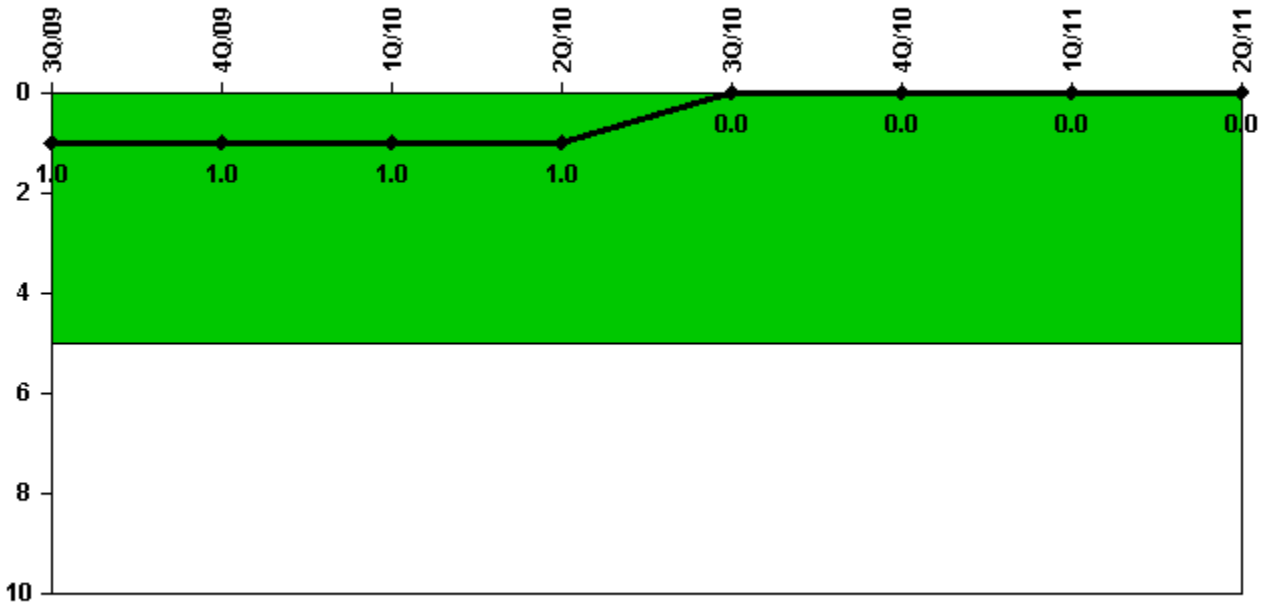
Thresholds: White > 1.0

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

Licensee Comments: none

Safety System Functional Failures (PWR)



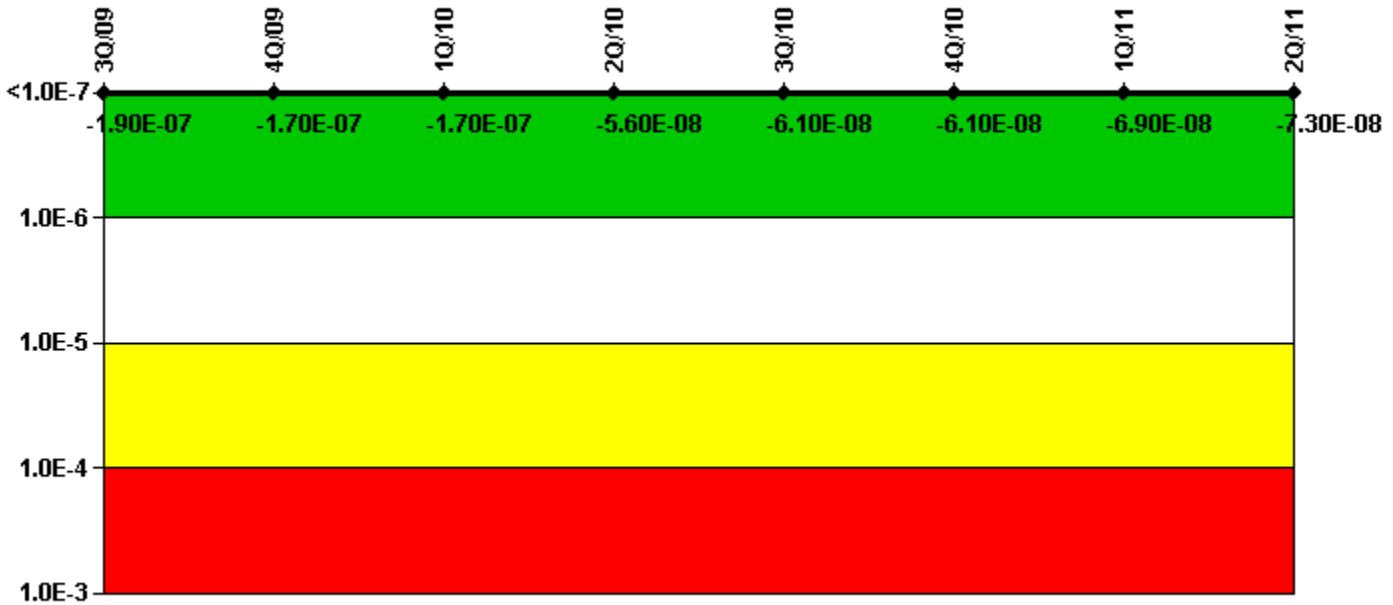
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	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



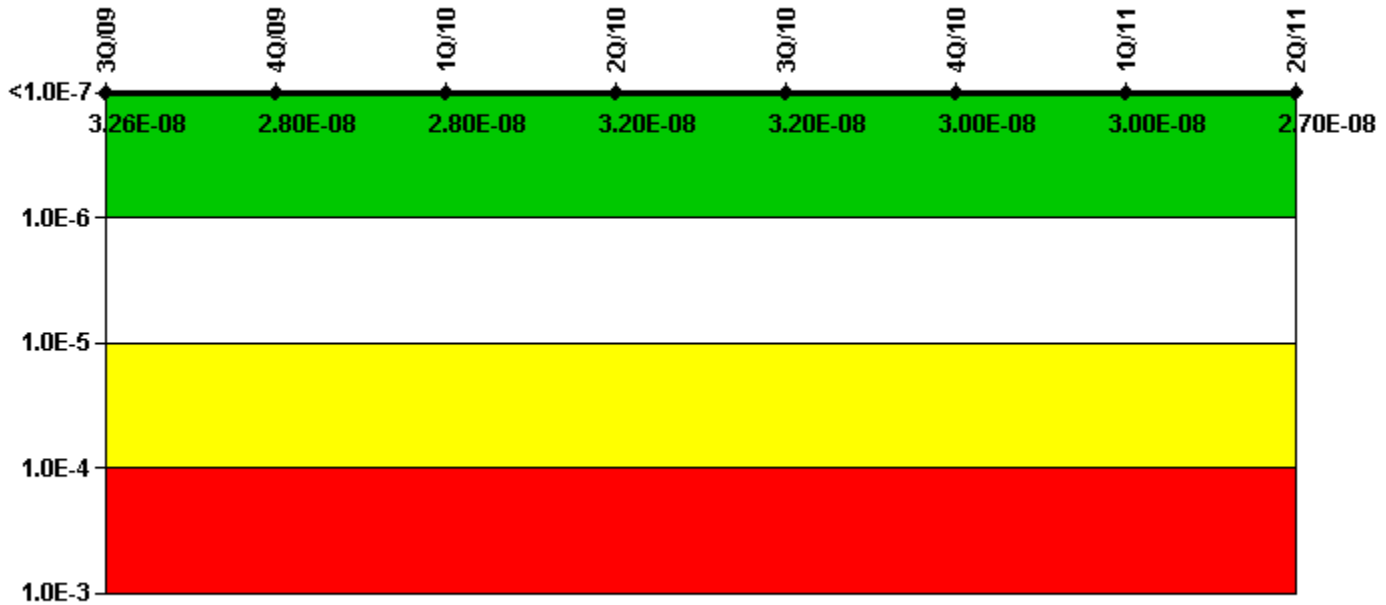
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-9.44E-09	2.06E-09	1.72E-09	2.19E-08	9.34E-09	1.01E-08	-2.16E-09	-2.05E-09
URI (Δ CDF)	-1.85E-07	-1.71E-07	-1.71E-07	-7.78E-08	-7.06E-08	-7.12E-08	-6.72E-08	-7.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-07	-1.70E-07	-1.70E-07	-5.60E-08	-6.10E-08	-6.10E-08	-6.90E-08	-7.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



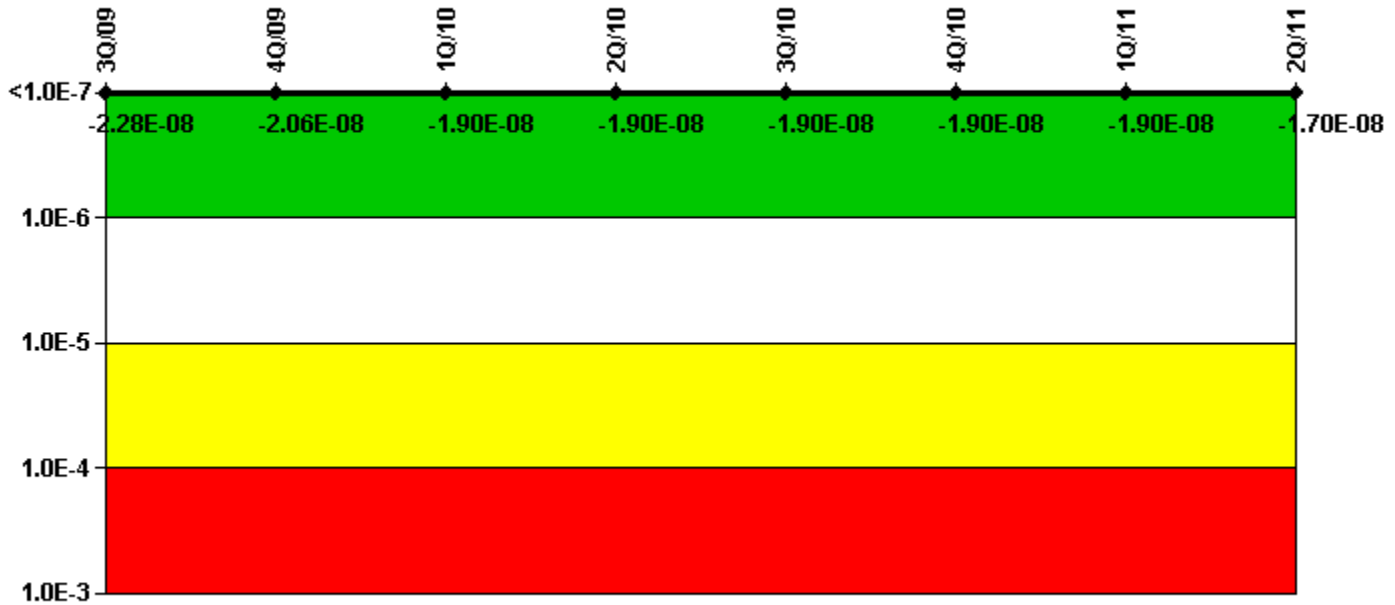
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	2.60E-09	-4.60E-11	5.19E-11	4.06E-09	3.92E-09	3.92E-09	4.47E-09	1.55E-09
URI (Δ CDF)	3.00E-08	2.80E-08	2.78E-08	2.80E-08	2.82E-08	2.58E-08	2.57E-08	2.56E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.26E-08	2.80E-08	2.80E-08	3.20E-08	3.20E-08	3.00E-08	3.00E-08	2.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



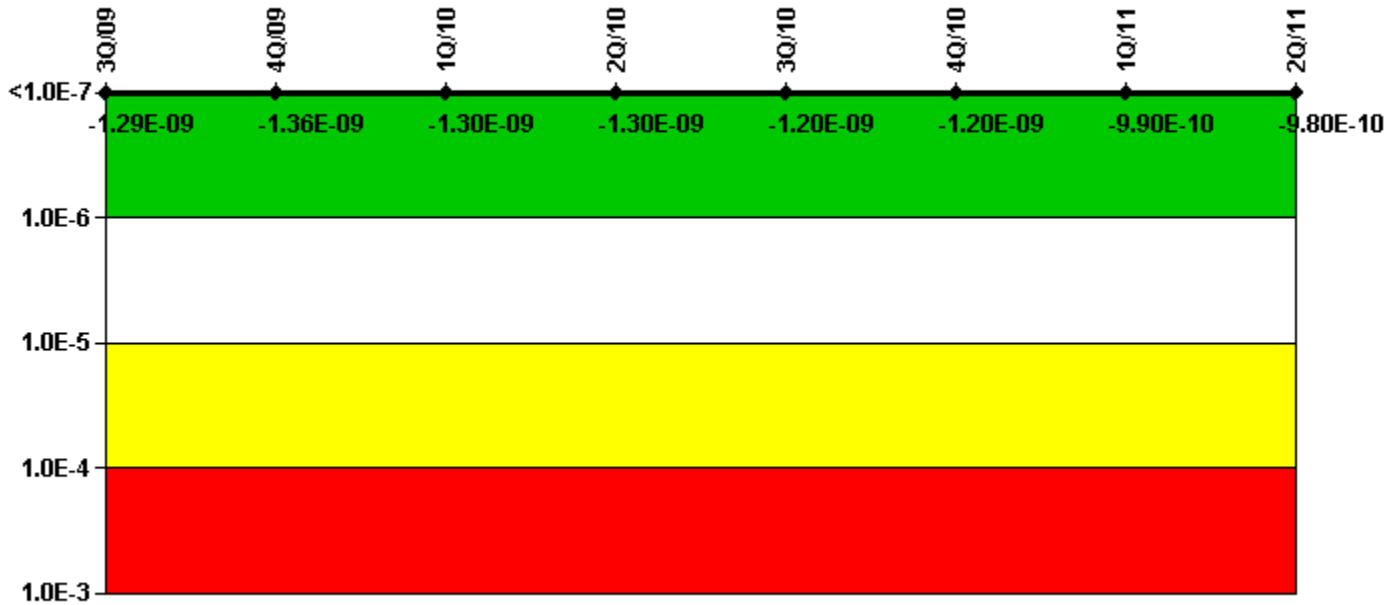
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	-3.80E-09	-3.60E-09	-3.59E-09	-3.39E-09	-3.43E-09	-3.56E-09	-2.36E-09	-1.49E-09
URI (Δ CDF)	-1.90E-08	-1.70E-08	-1.59E-08	-1.59E-08	-1.59E-08	-1.59E-08	-1.65E-08	-1.54E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.28E-08	-2.06E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



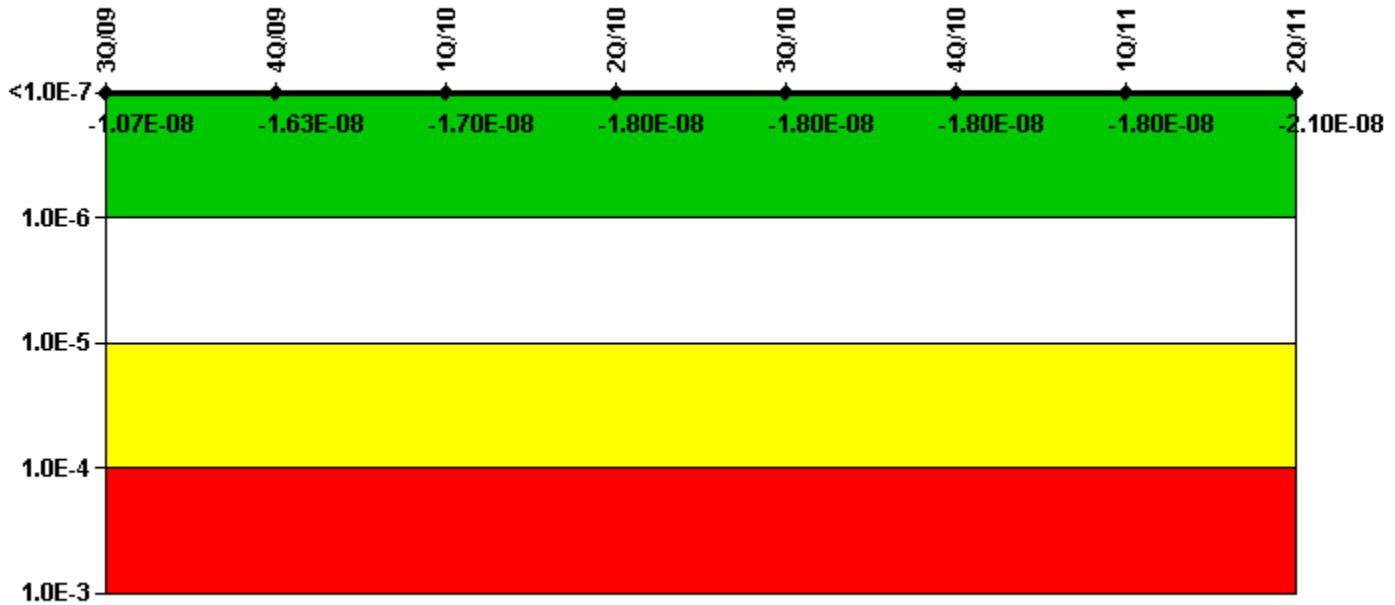
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	-2.90E-10	-2.60E-10	-2.58E-10	-2.52E-10	-1.94E-10	-1.79E-10	9.76E-11	1.13E-10
URI (Δ CDF)	-1.00E-09	-1.10E-09	-1.04E-09	-1.04E-09	-1.04E-09	-1.06E-09	-1.08E-09	-1.09E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.29E-09	-1.36E-09	-1.30E-09	-1.30E-09	-1.20E-09	-1.20E-09	-9.90E-10	-9.80E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



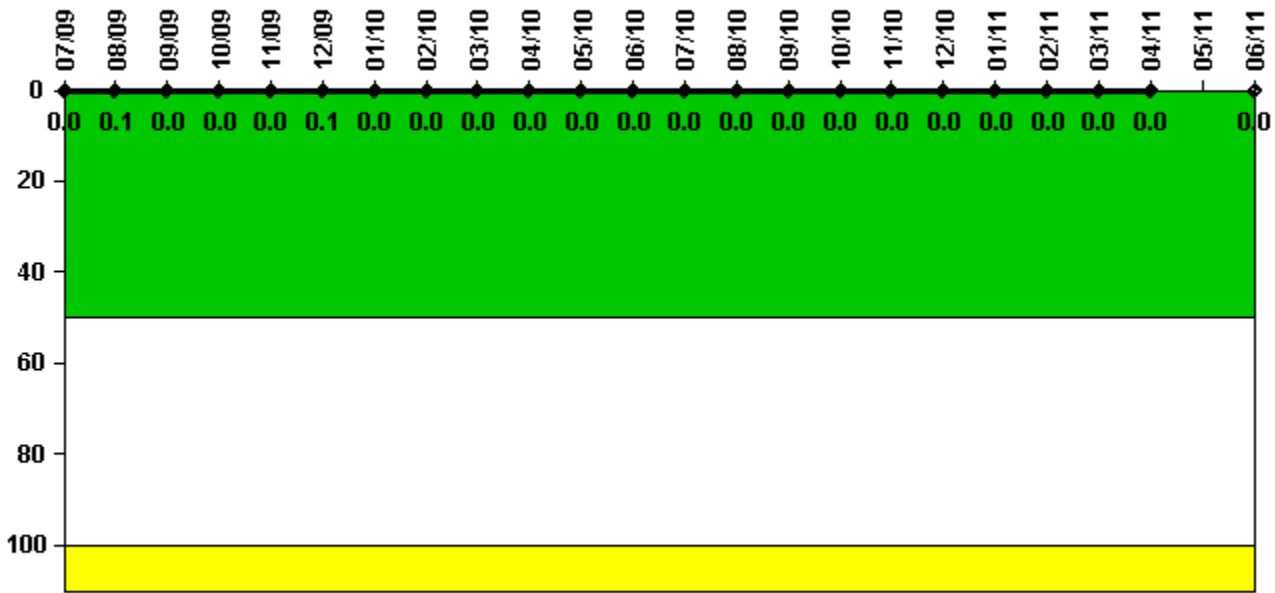
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	9.30E-09	3.70E-09	3.43E-09	3.24E-09	3.50E-09	3.57E-09	4.37E-09	2.11E-09
URI (Δ CDF)	-2.00E-08	-2.00E-08	-1.99E-08	-2.09E-08	-2.13E-08	-2.18E-08	-2.23E-08	-2.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.07E-08	-1.63E-08	-1.70E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-2.10E-08

Licensee Comments: none

Reactor Coolant System Activity



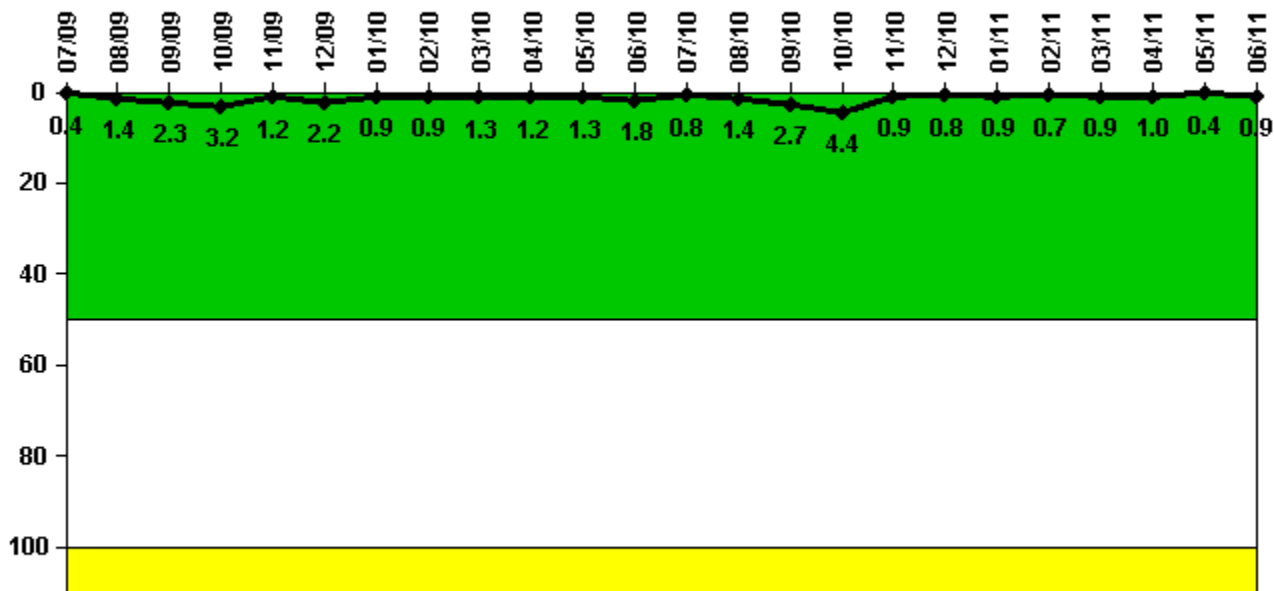
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum activity	0.000327	0.000572	0.000318	0.000279	0.000037	0.000664	0.000161	0.000185	0.000263	0.000236	0.000248	0.000204
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0.1	0	0	0	0.1	0	0	0	0	0	0
Reactor Coolant System Activity	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.000375	0.000316	0.000209	0.000270	0.000219	0.000250	0.000256	0.000266	0.000277	0.000281	N/A	0.000140
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	N/A	0

Licensee Comments: none

Reactor Coolant System Leakage



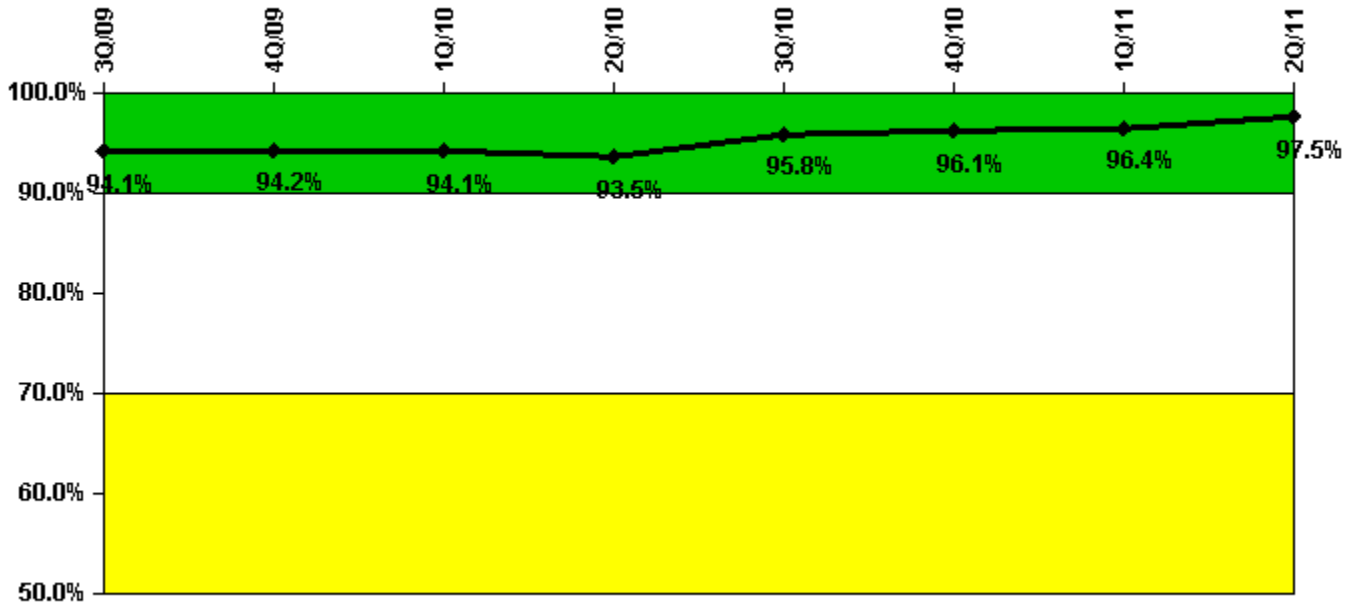
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum leakage	0.040	0.140	0.230	0.320	0.120	0.220	0.090	0.090	0.130	0.120	0.130	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	0.4	1.4	2.3	3.2	1.2	2.2	0.9	0.9	1.3	1.2	1.3	1.8
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	0.080	0.140	0.270	0.440	0.090	0.080	0.090	0.070	0.090	0.100	0.043	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.8	1.4	2.7	4.4	0.9	0.8	0.9	0.7	0.9	1.0	0.4	0.9

Licensee Comments: none

Drill/Exercise Performance



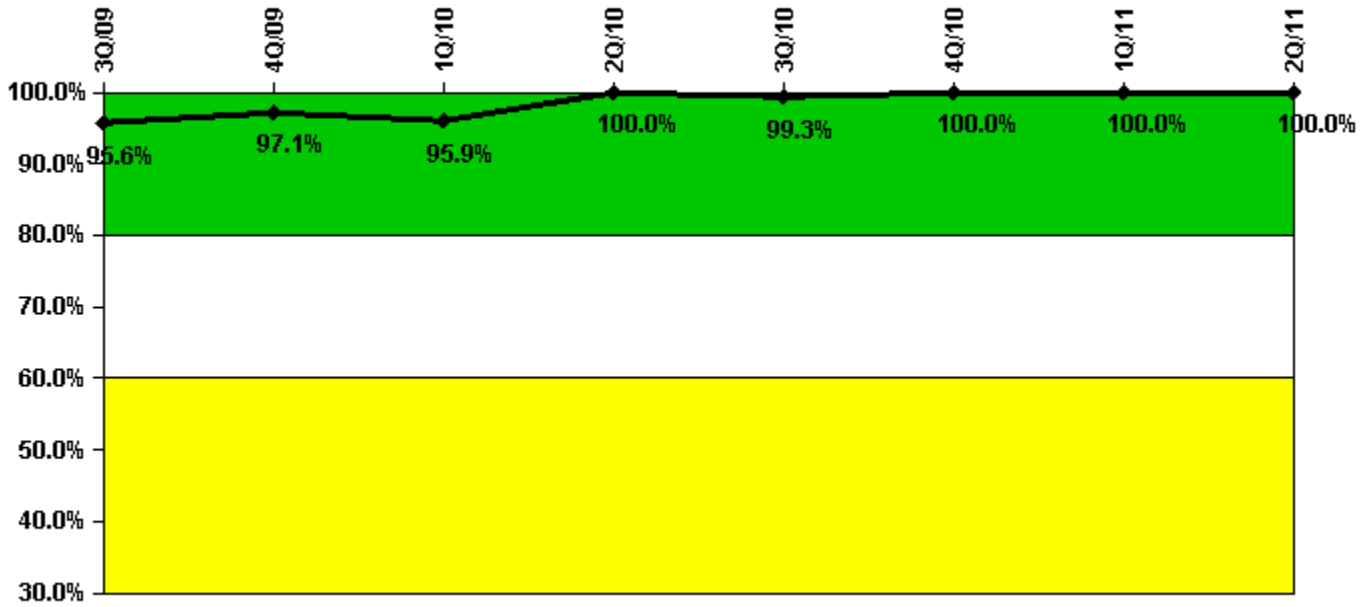
Thresholds: White < 90.0% Yellow < 70.0%

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



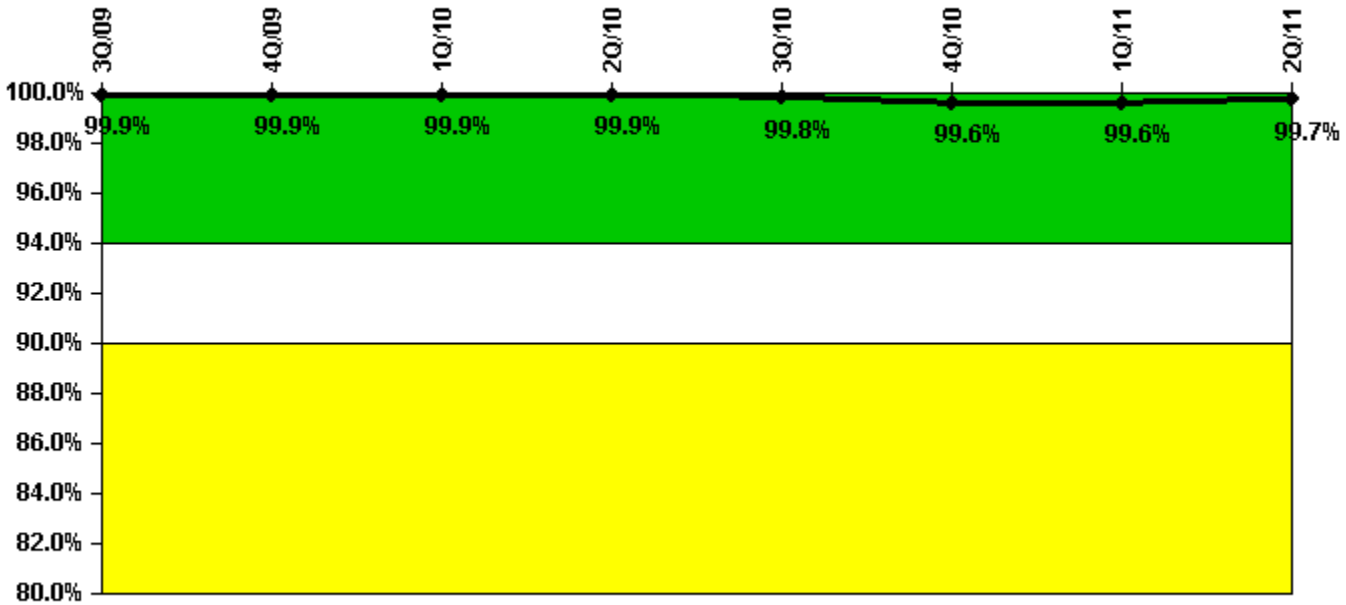
Thresholds: White < 80.0% Yellow < 60.0%

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%

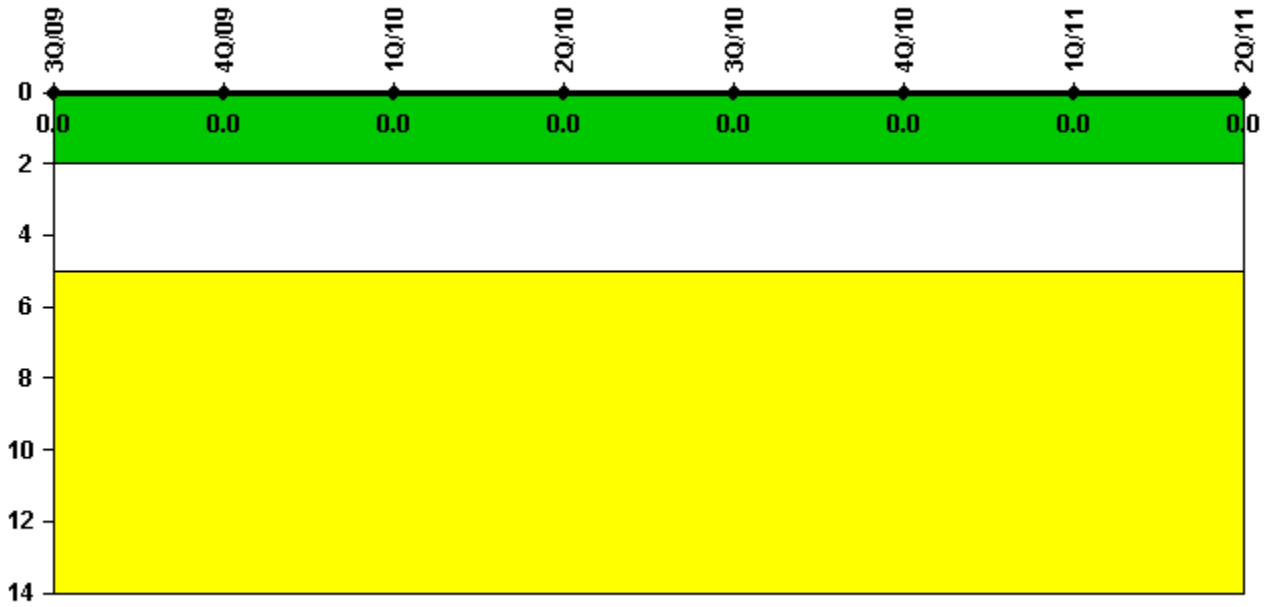
Notes

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



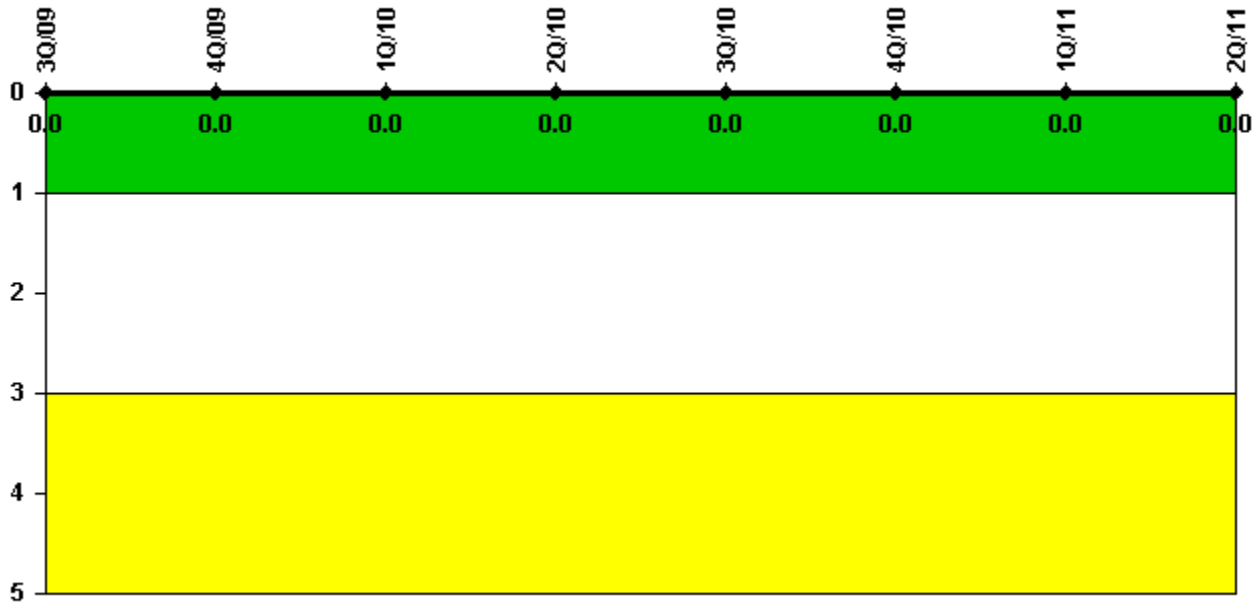
Thresholds: White > 2.0 Yellow > 5.0

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.

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

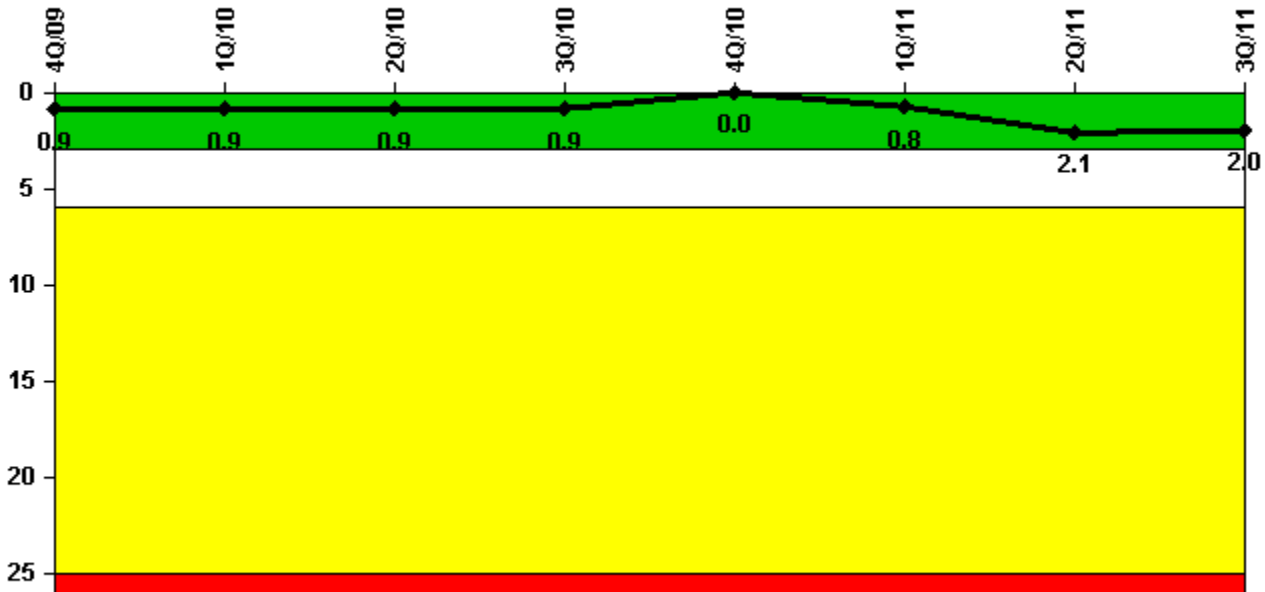
Last Modified: July 22, 2011

Surry 2

3Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



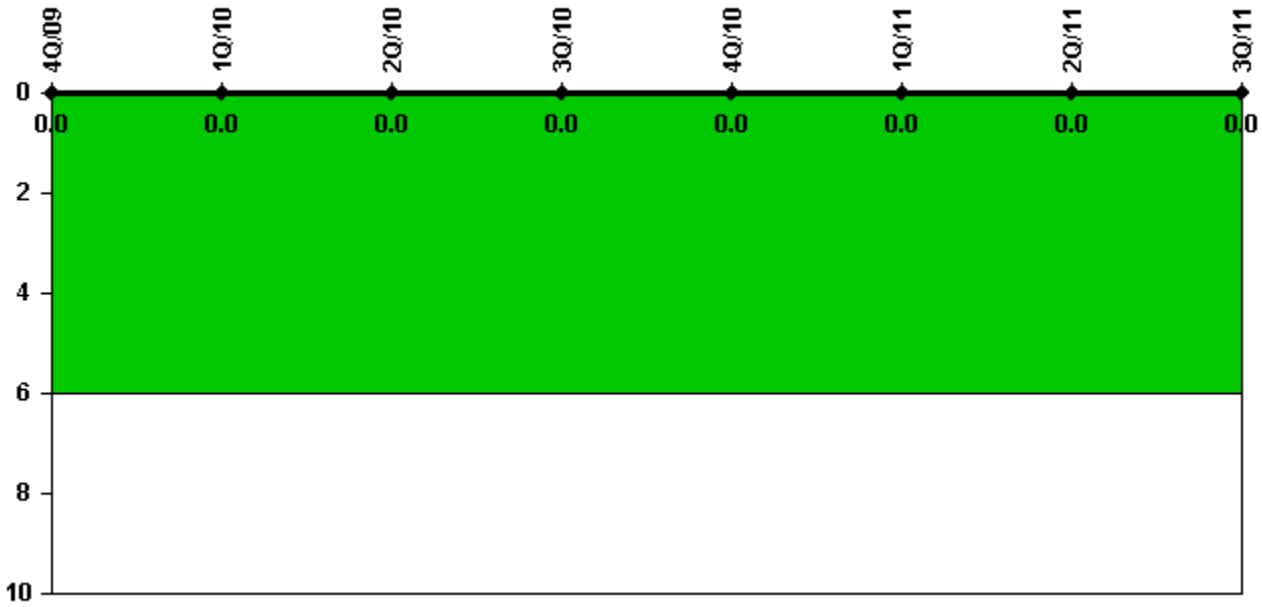
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	0	1.0	1.0	0
Critical hours	1520.0	2159.0	2184.0	2107.9	2209.0	1789.4	623.8	2208.0
Indicator value	0.9	0.9	0.9	0.9	0	0.8	2.1	2.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



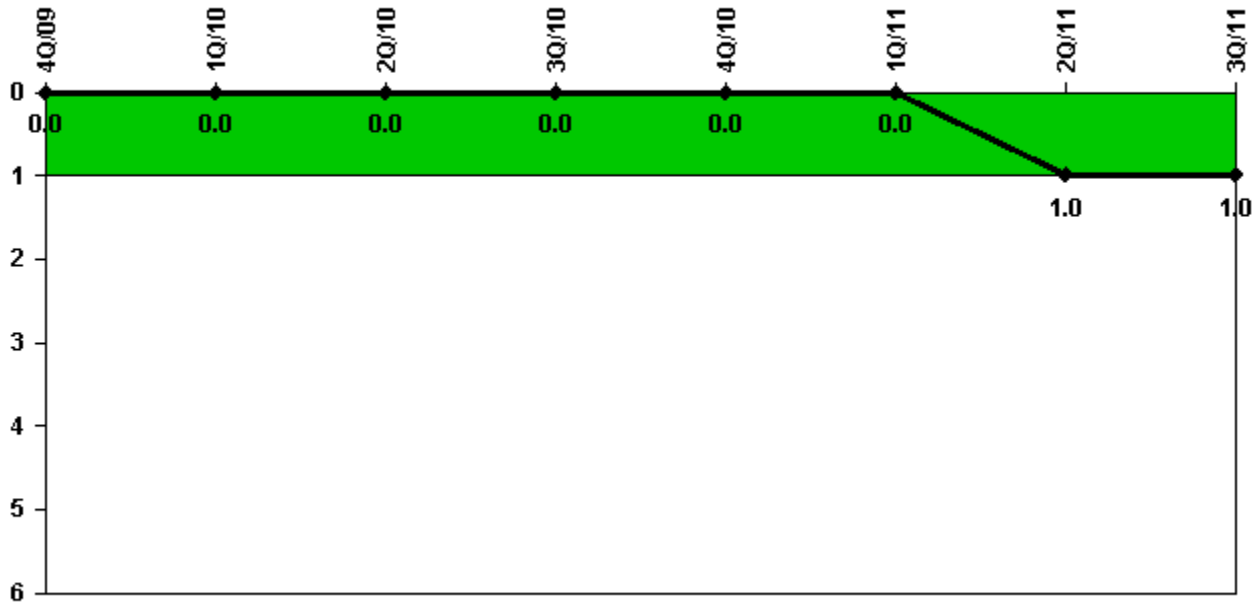
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/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	1520.0	2159.0	2184.0	2107.9	2209.0	1789.4	623.8	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



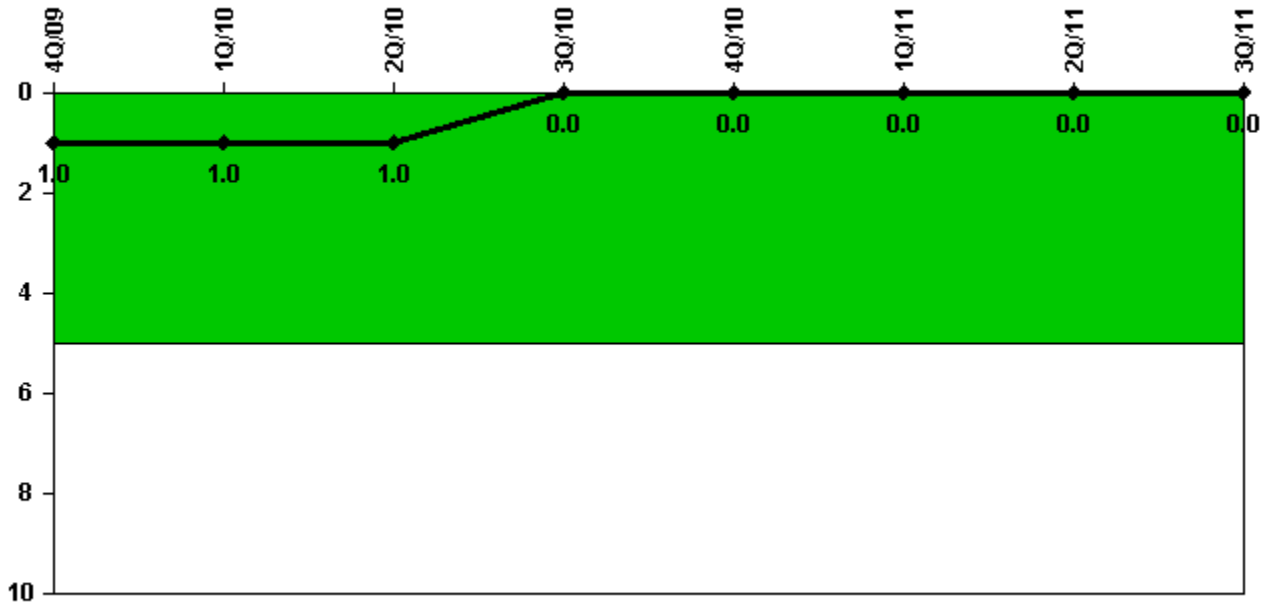
Thresholds: White > 1.0

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	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)



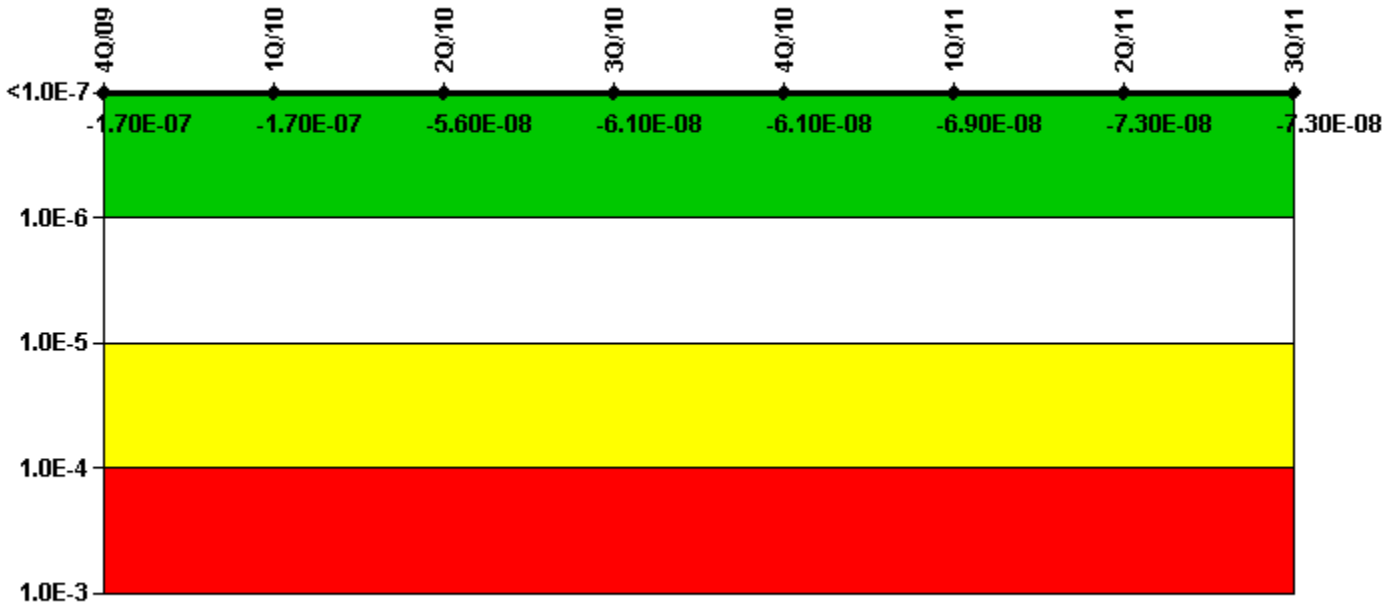
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/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



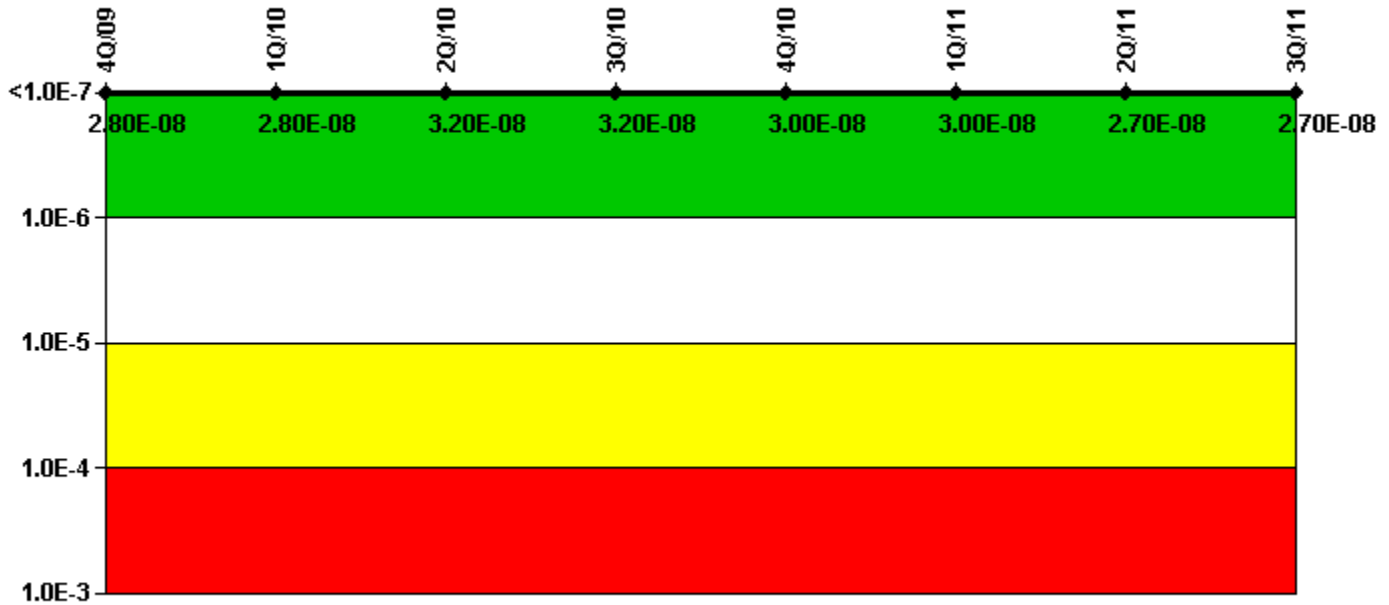
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	2.06E-09	1.72E-09	2.19E-08	9.34E-09	1.01E-08	-2.16E-09	-2.05E-09	-2.69E-09
URI (Δ CDF)	-1.71E-07	-1.71E-07	-7.78E-08	-7.06E-08	-7.12E-08	-6.72E-08	-7.05E-08	-7.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	-1.70E-07	-5.60E-08	-6.10E-08	-6.10E-08	-6.90E-08	-7.30E-08	-7.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



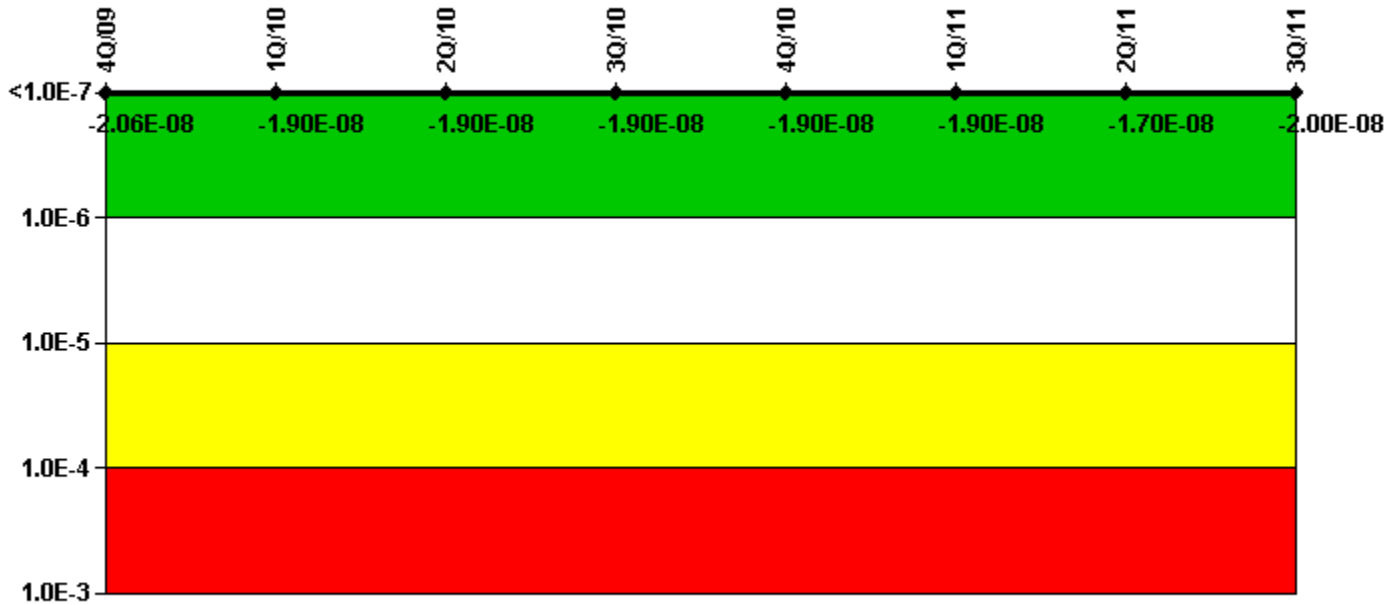
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	-4.60E-11	5.19E-11	4.06E-09	3.92E-09	3.92E-09	4.47E-09	1.55E-09	1.68E-09
URI (Δ CDF)	2.80E-08	2.78E-08	2.80E-08	2.82E-08	2.58E-08	2.57E-08	2.56E-08	2.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.80E-08	2.80E-08	3.20E-08	3.20E-08	3.00E-08	3.00E-08	2.70E-08	2.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



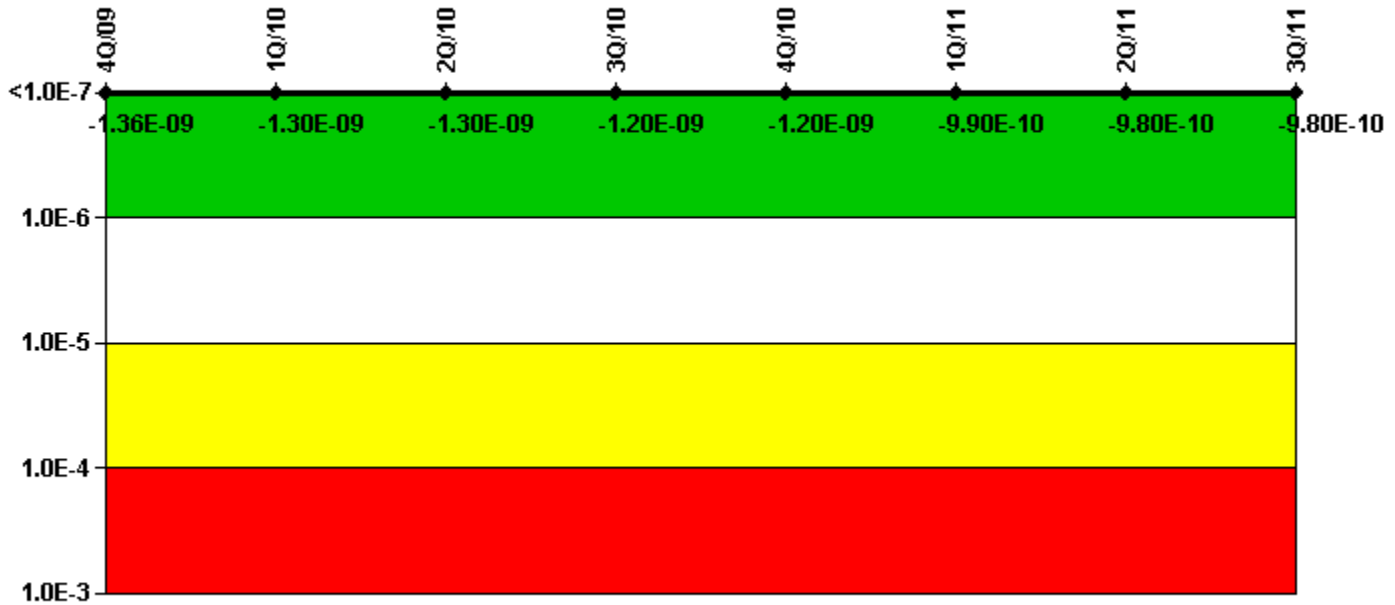
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	-3.60E-09	-3.59E-09	-3.39E-09	-3.43E-09	-3.56E-09	-2.36E-09	-1.49E-09	-5.50E-09
URI (Δ CDF)	-1.70E-08	-1.59E-08	-1.59E-08	-1.59E-08	-1.59E-08	-1.65E-08	-1.54E-08	-1.49E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.06E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.70E-08	-2.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



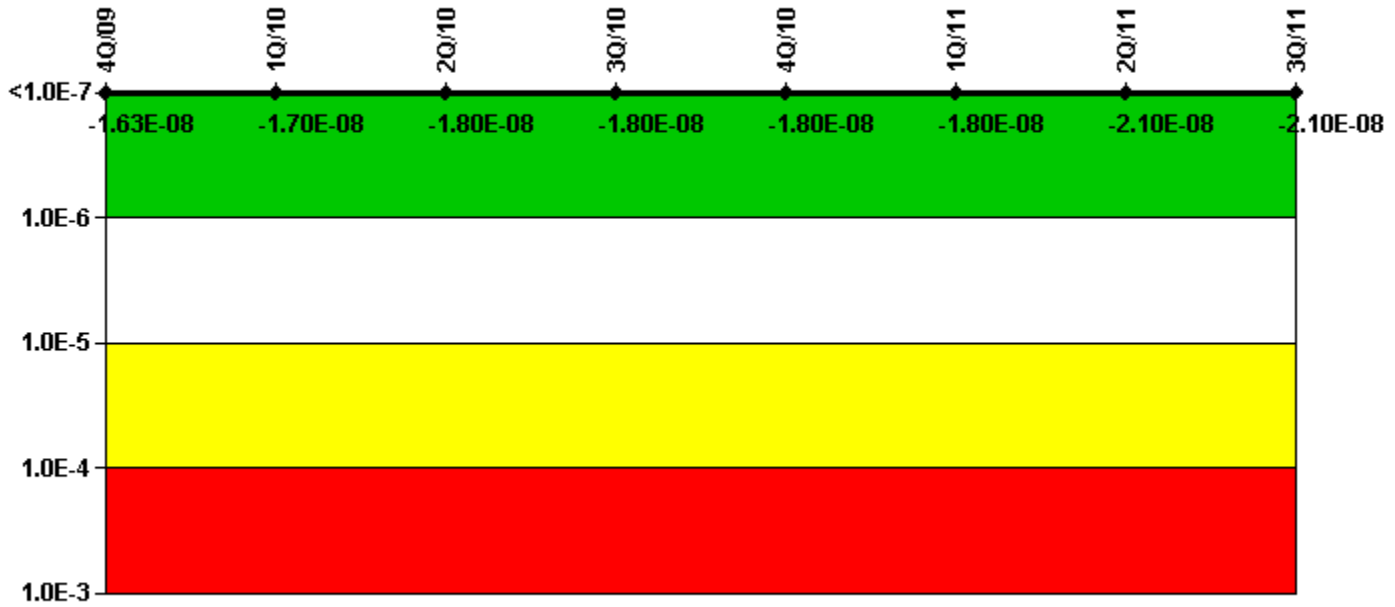
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	-2.60E-10	-2.58E-10	-2.52E-10	-1.94E-10	-1.79E-10	9.76E-11	1.13E-10	1.25E-10
URI (Δ CDF)	-1.10E-09	-1.04E-09	-1.04E-09	-1.04E-09	-1.06E-09	-1.08E-09	-1.09E-09	-1.10E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.36E-09	-1.30E-09	-1.30E-09	-1.20E-09	-1.20E-09	-9.90E-10	-9.80E-10	-9.80E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



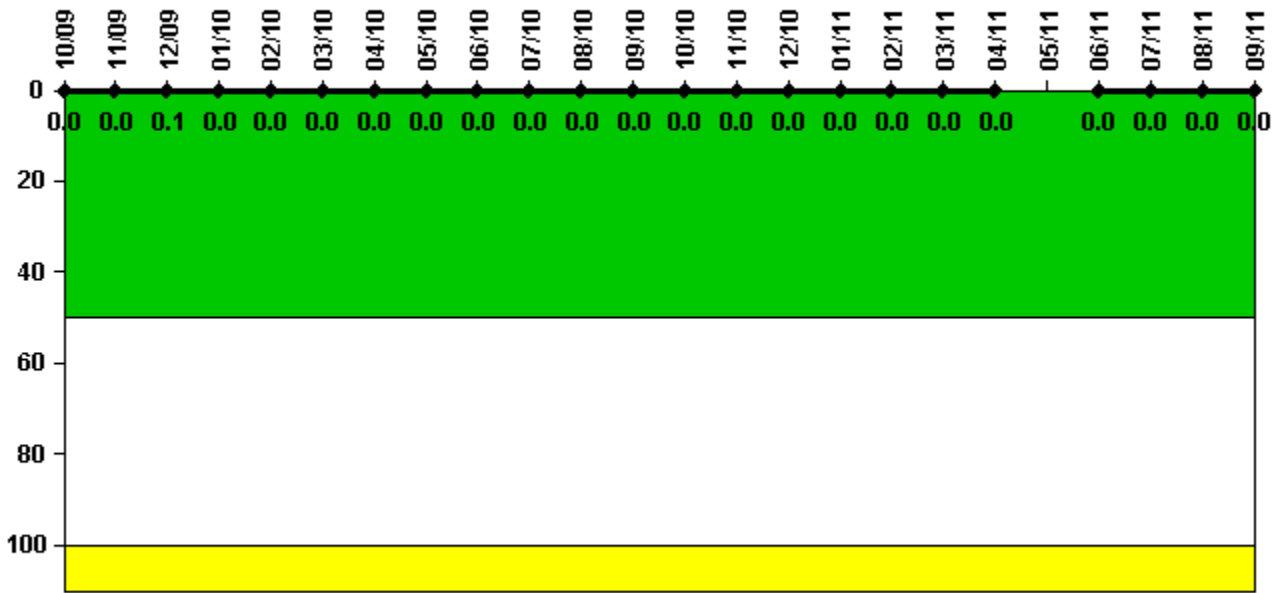
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	3.70E-09	3.43E-09	3.24E-09	3.50E-09	3.57E-09	4.37E-09	2.11E-09	1.38E-09
URI (Δ CDF)	-2.00E-08	-1.99E-08	-2.09E-08	-2.13E-08	-2.18E-08	-2.23E-08	-2.28E-08	-2.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.63E-08	-1.70E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-2.10E-08	-2.10E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

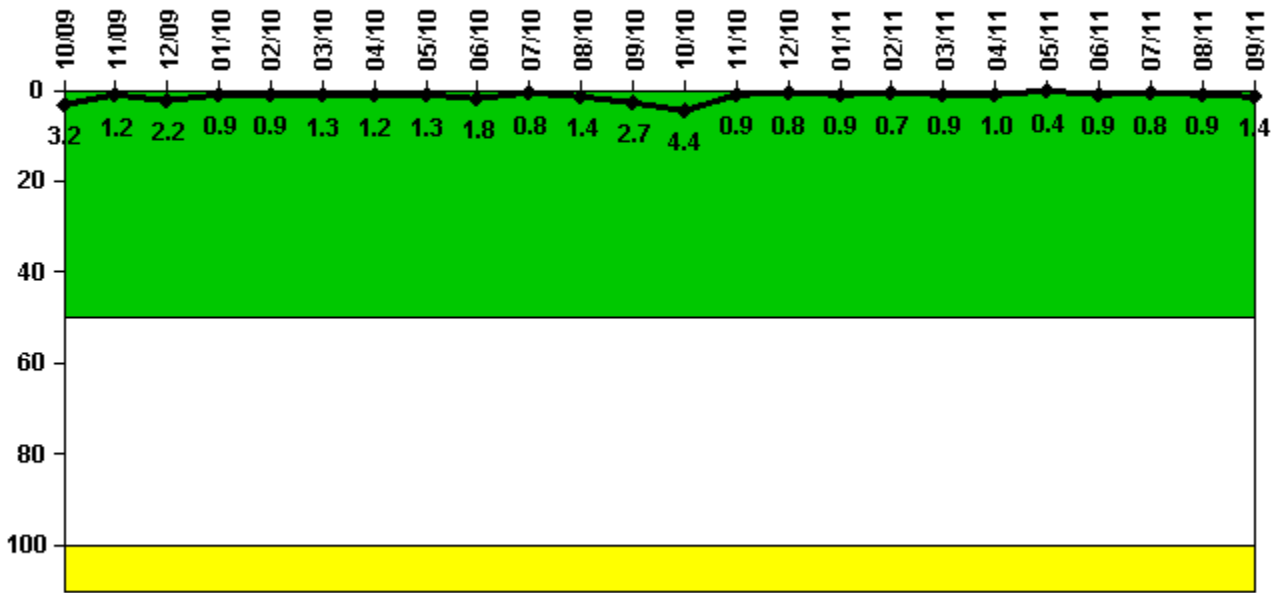
Notes

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	0.000279	0.000037	0.000664	0.000161	0.000185	0.000263	0.000236	0.000248	0.000204	0.000375	0.000316	0.000209
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0.1	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum activity	0.000270	0.000219	0.000250	0.000256	0.000266	0.000277	0.000281	N/A	0.000140	0.000120	0.000131	0.000212
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	N/A	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



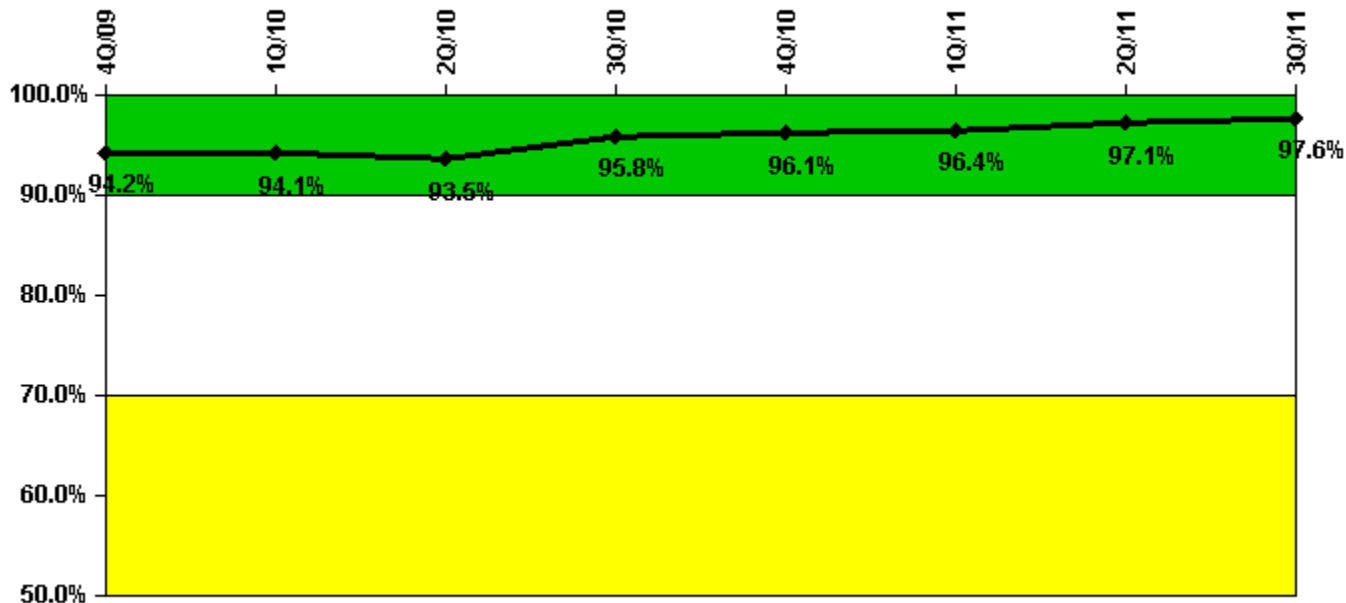
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.320	0.120	0.220	0.090	0.090	0.130	0.120	0.130	0.180	0.080	0.140	0.270
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.2	1.2	2.2	0.9	0.9	1.3	1.2	1.3	1.8	0.8	1.4	2.7
Reactor Coolant System Leakage	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum leakage	0.440	0.090	0.080	0.090	0.070	0.090	0.100	0.043	0.090	0.080	0.090	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	4.4	0.9	0.8	0.9	0.7	0.9	1.0	0.4	0.9	0.8	0.9	1.4

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

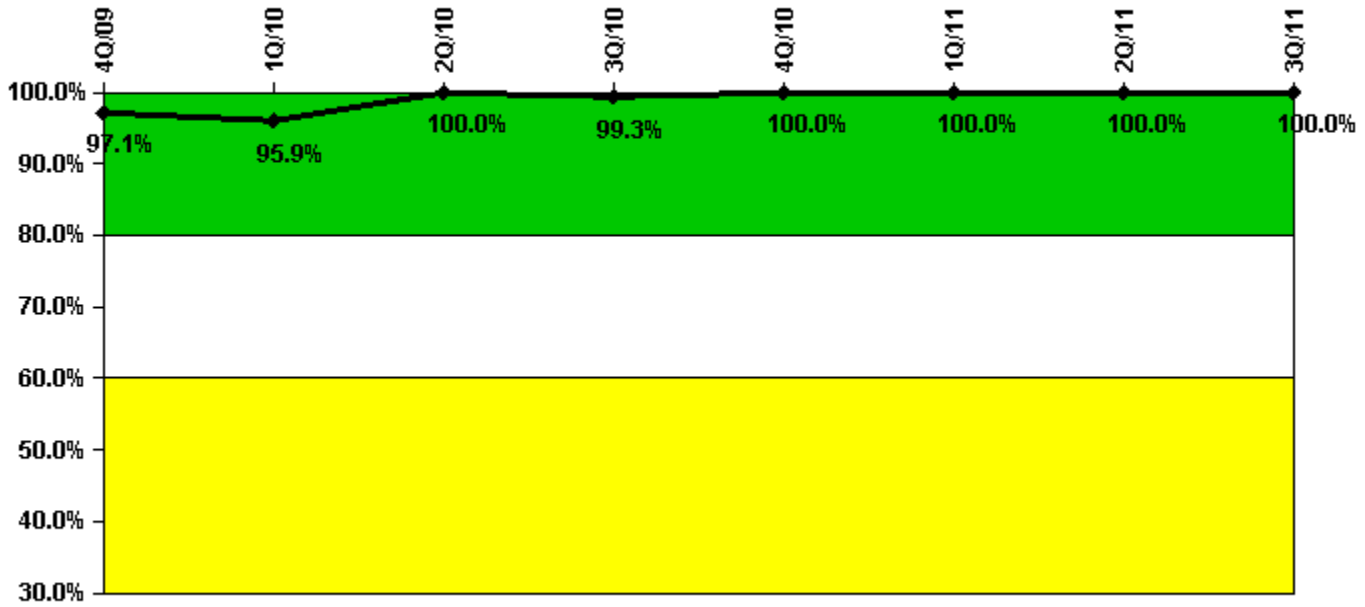
Notes

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



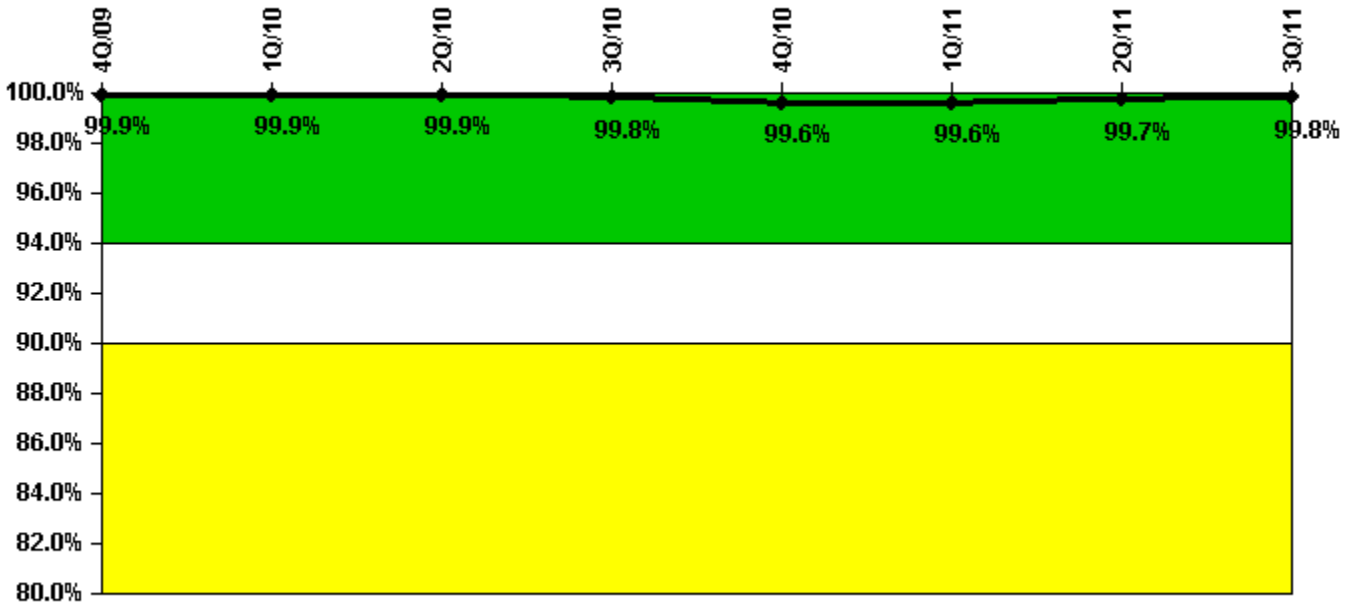
Thresholds: White < 80.0% Yellow < 60.0%

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



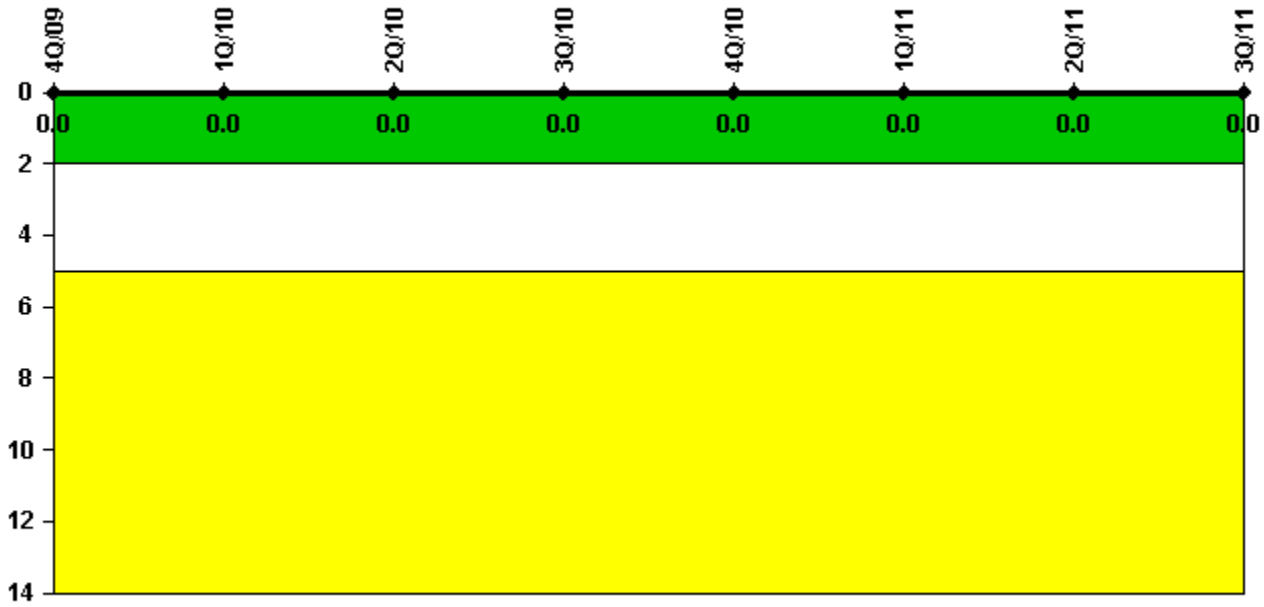
Thresholds: White < 94.0% Yellow < 90.0%

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



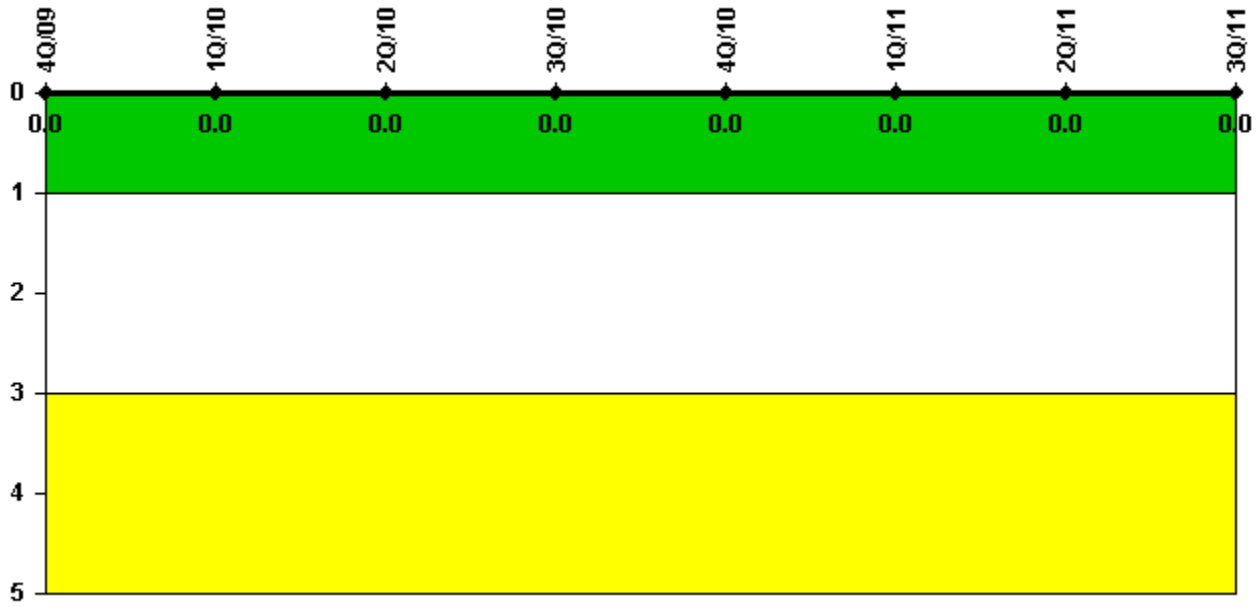
Thresholds: White > 2.0 Yellow > 5.0

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

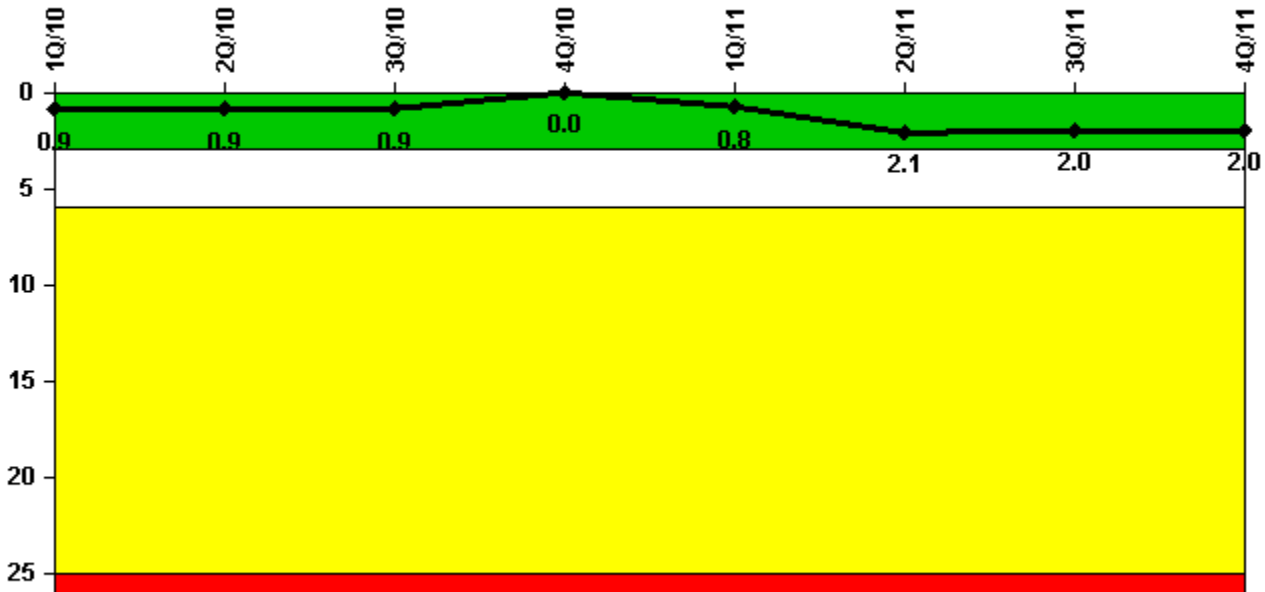
[Security](#) information not publicly available.

Surry 2

4Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



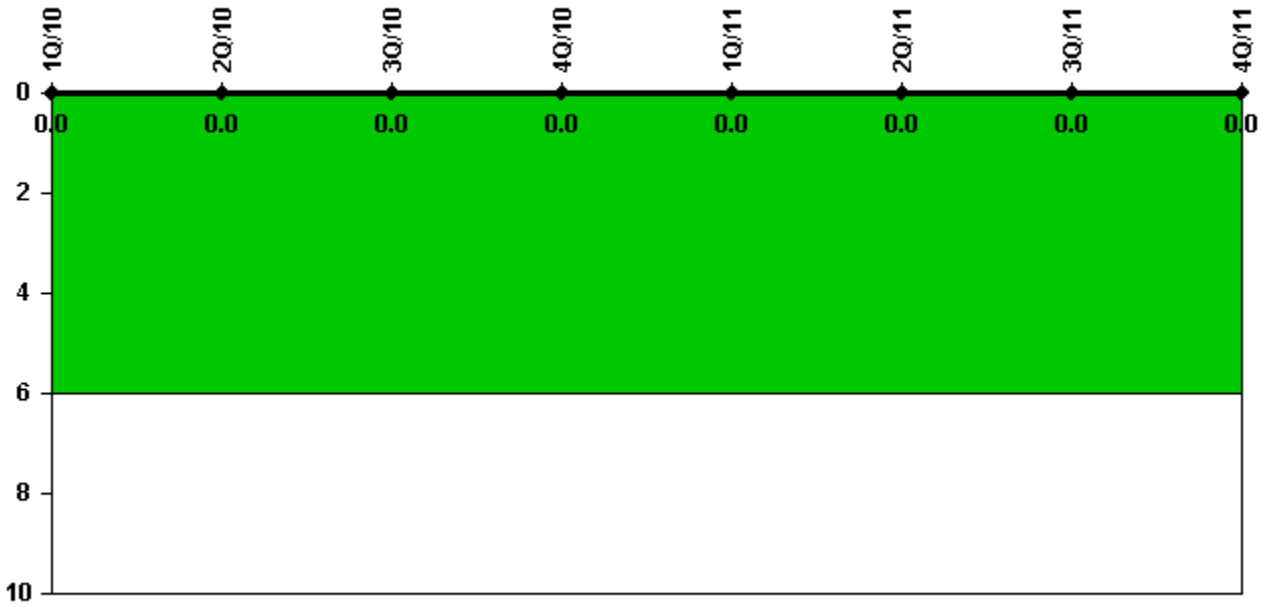
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned scrams	0	0	0	0	1.0	1.0	0	0
Critical hours	2159.0	2184.0	2107.9	2209.0	1789.4	623.8	2208.0	2209.0
Indicator value	0.9	0.9	0.9	0	0.8	2.1	2.0	2.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



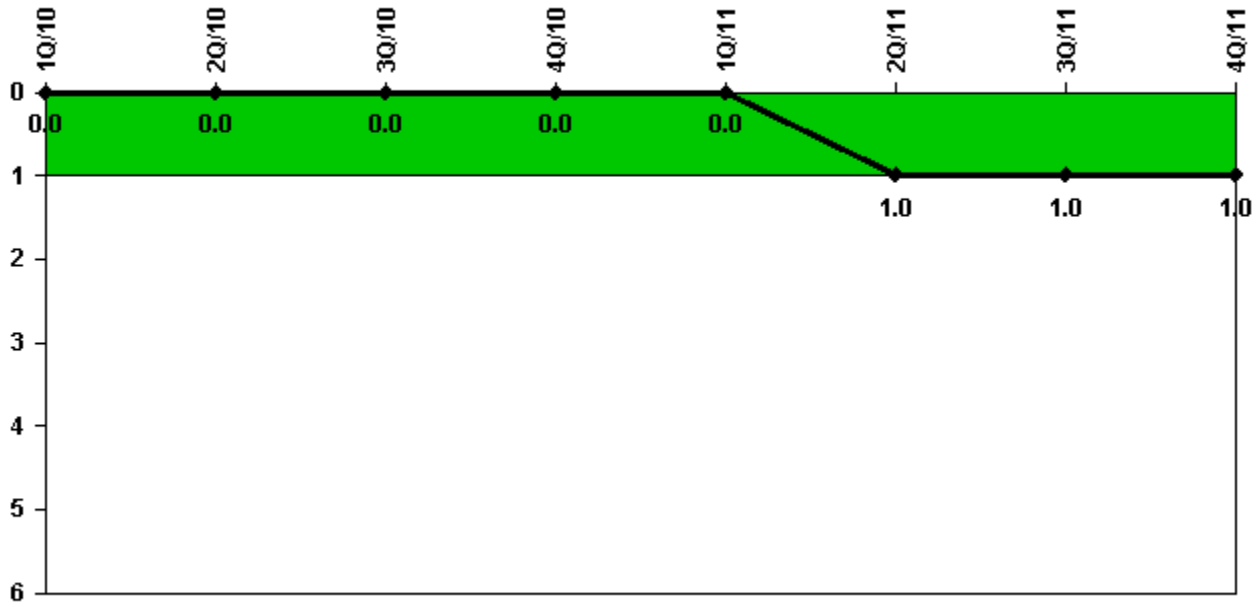
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2107.9	2209.0	1789.4	623.8	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



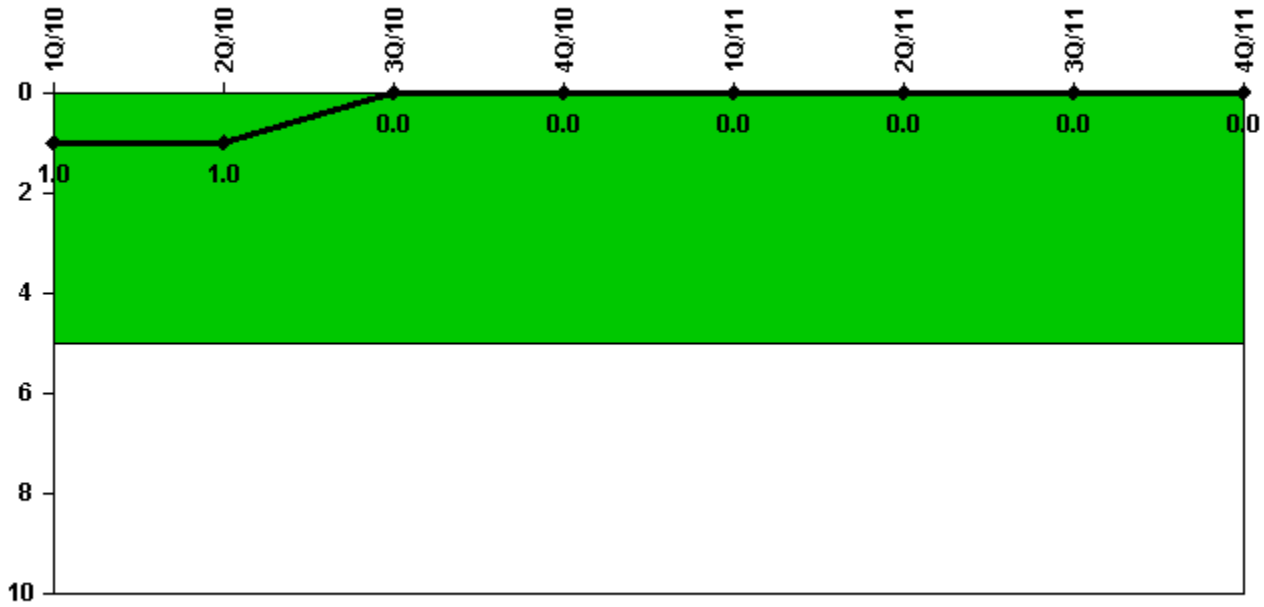
Thresholds: White > 1.0

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	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)



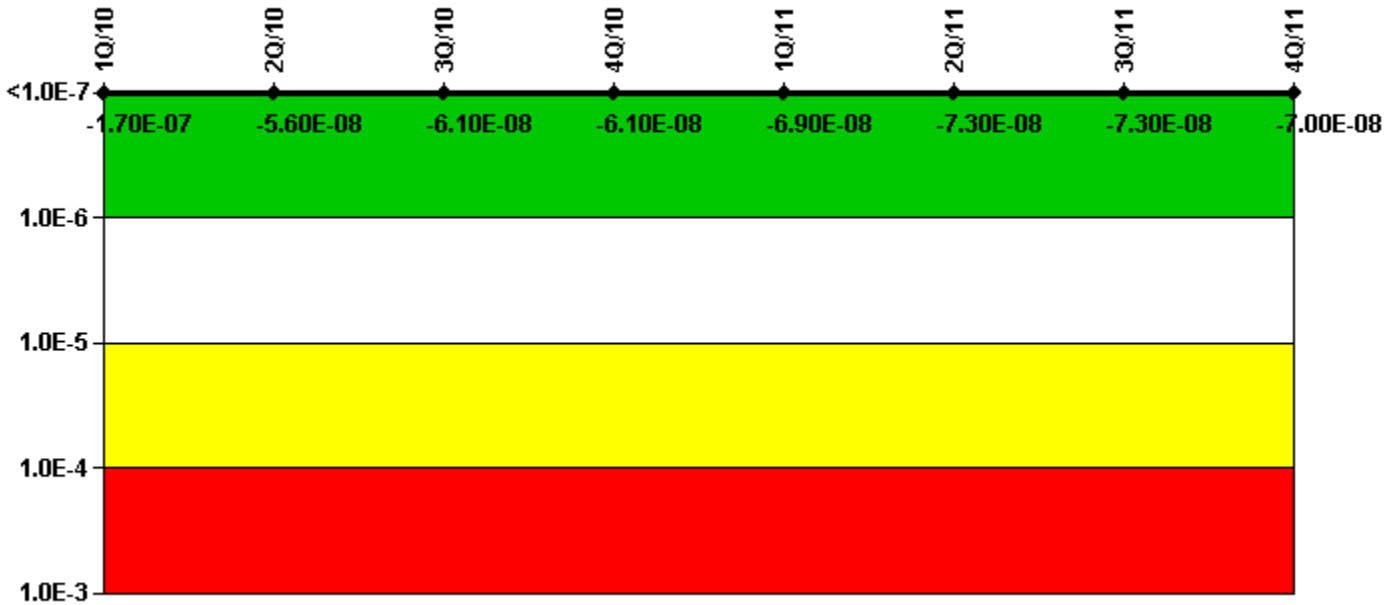
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/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



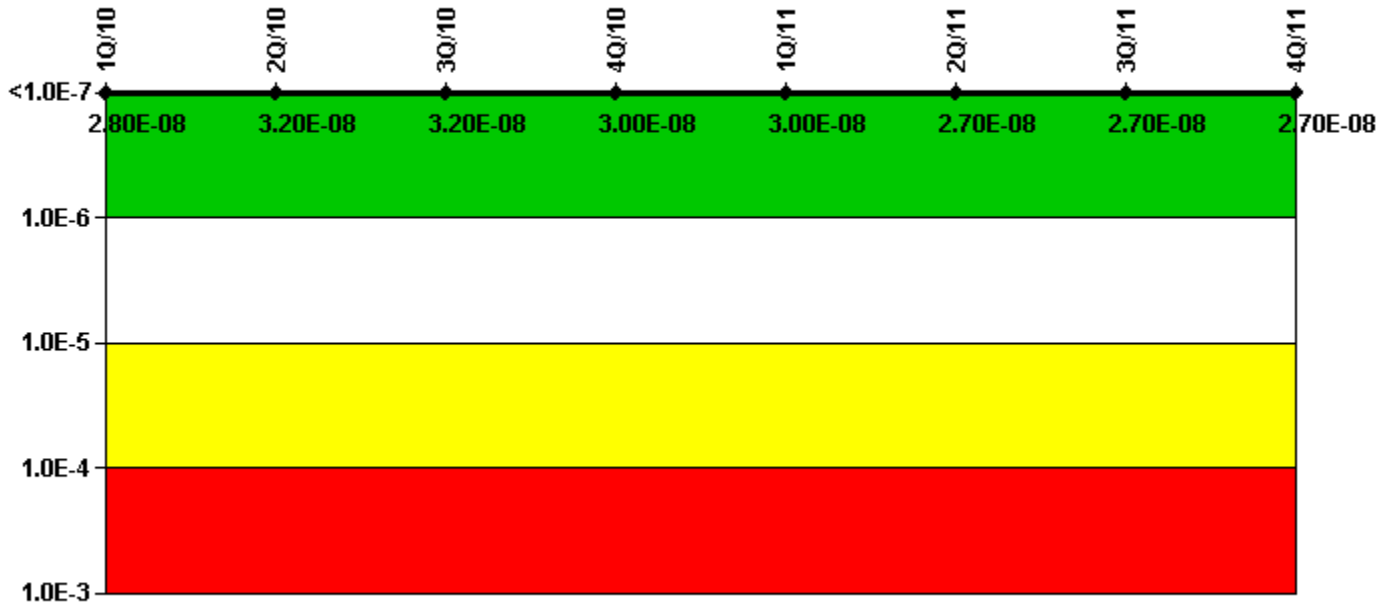
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.72E-09	2.19E-08	9.34E-09	1.01E-08	-2.16E-09	-2.05E-09	-2.69E-09	-2.99E-09
URI (Δ CDF)	-1.71E-07	-7.78E-08	-7.06E-08	-7.12E-08	-6.72E-08	-7.05E-08	-7.00E-08	-6.73E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	-5.60E-08	-6.10E-08	-6.10E-08	-6.90E-08	-7.30E-08	-7.30E-08	-7.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



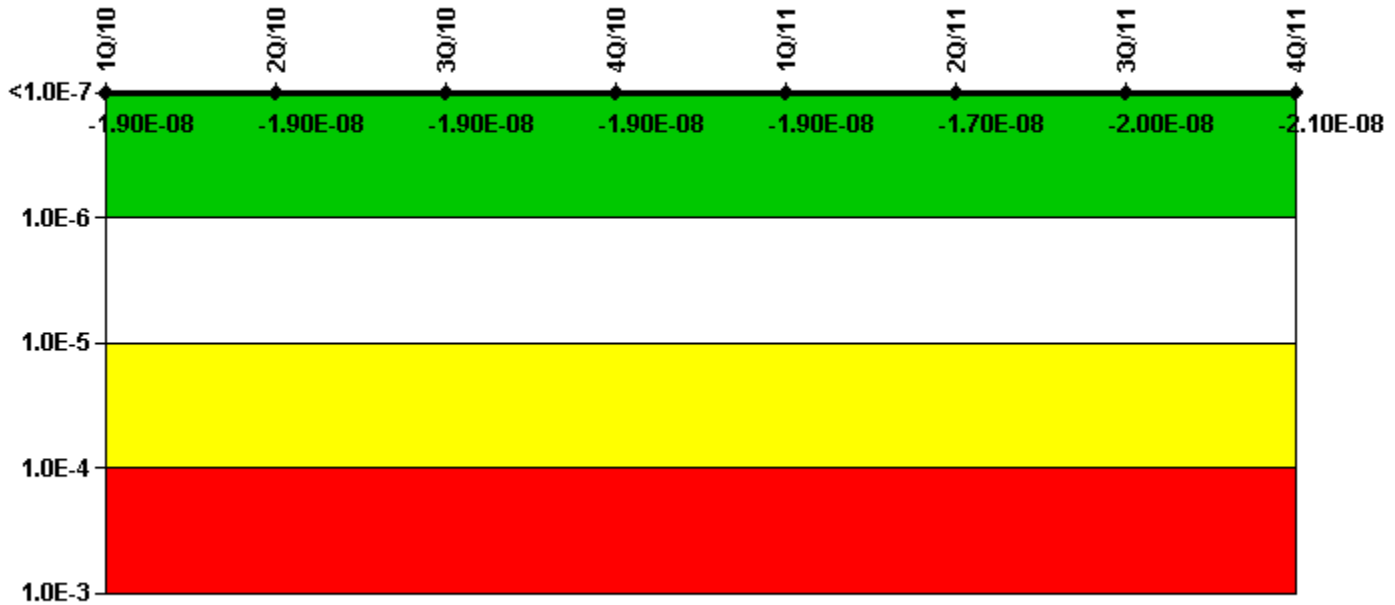
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	5.19E-11	4.06E-09	3.92E-09	3.92E-09	4.47E-09	1.55E-09	1.68E-09	2.30E-09
URI (Δ CDF)	2.78E-08	2.80E-08	2.82E-08	2.58E-08	2.57E-08	2.56E-08	2.50E-08	2.47E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.80E-08	3.20E-08	3.20E-08	3.00E-08	3.00E-08	2.70E-08	2.70E-08	2.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



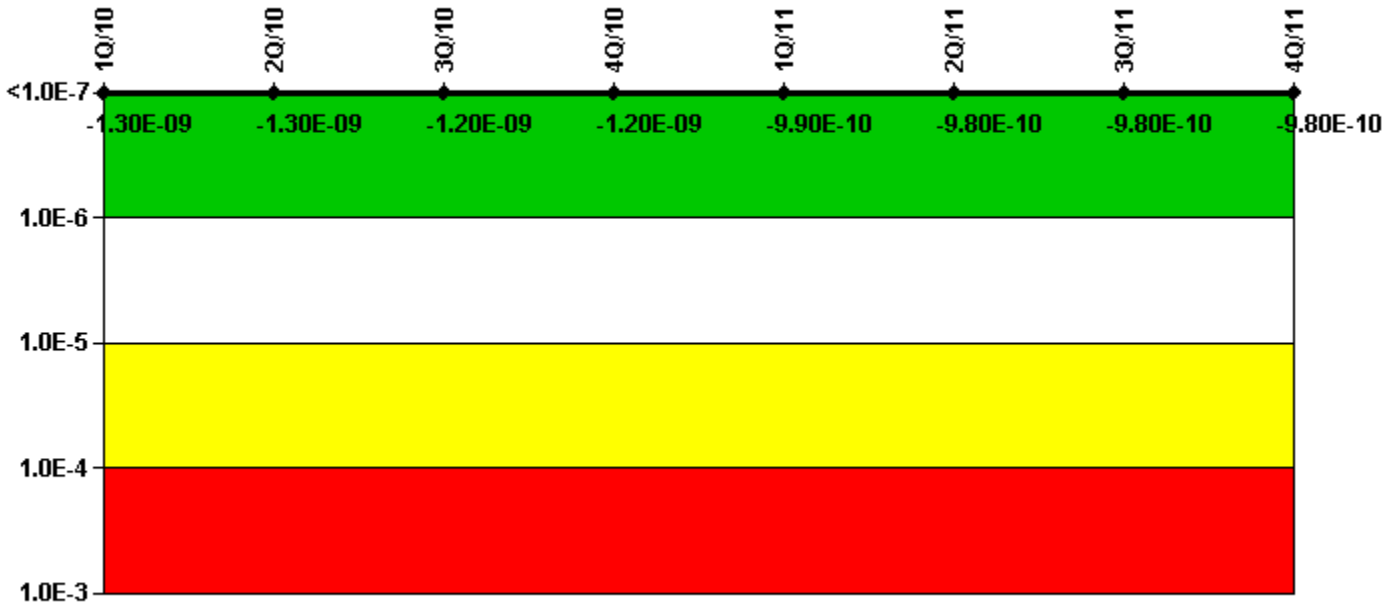
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	-3.59E-09	-3.39E-09	-3.43E-09	-3.56E-09	-2.36E-09	-1.49E-09	-5.50E-09	-5.77E-09
URI (Δ CDF)	-1.59E-08	-1.59E-08	-1.59E-08	-1.59E-08	-1.65E-08	-1.54E-08	-1.49E-08	-1.49E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.70E-08	-2.00E-08	-2.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



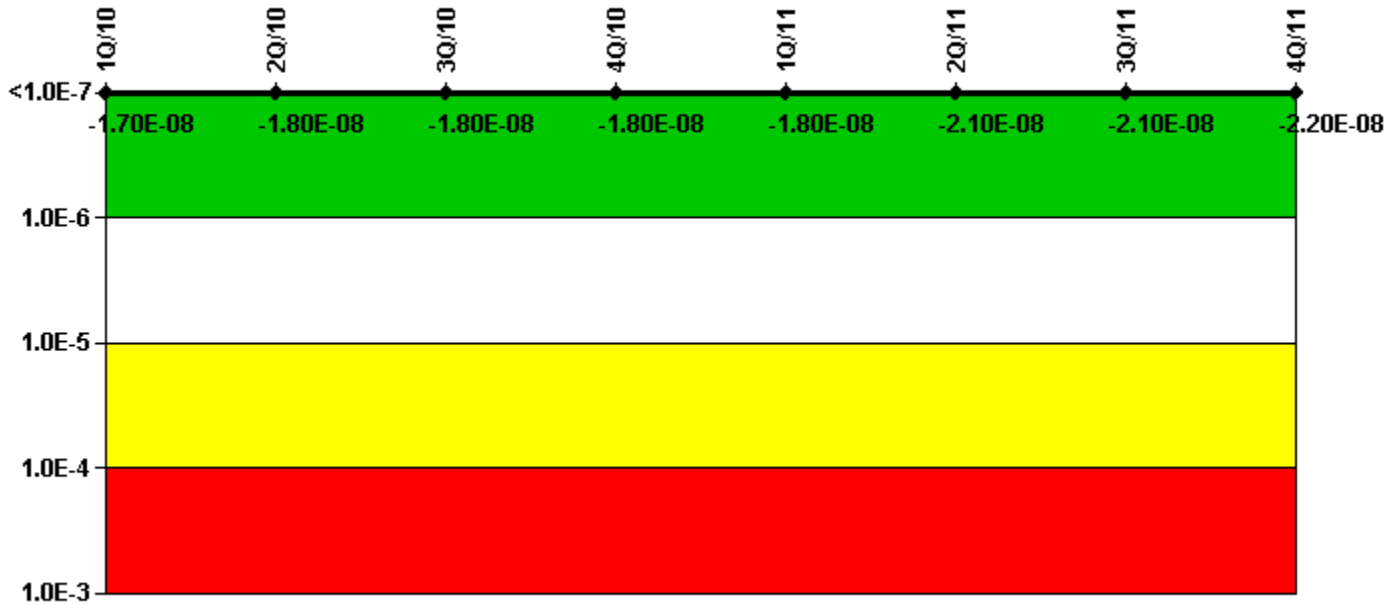
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	-2.58E-10	-2.52E-10	-1.94E-10	-1.79E-10	9.76E-11	1.13E-10	1.25E-10	1.30E-10
URI (Δ CDF)	-1.04E-09	-1.04E-09	-1.04E-09	-1.06E-09	-1.08E-09	-1.09E-09	-1.10E-09	-1.11E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-09	-1.30E-09	-1.20E-09	-1.20E-09	-9.90E-10	-9.80E-10	-9.80E-10	-9.80E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



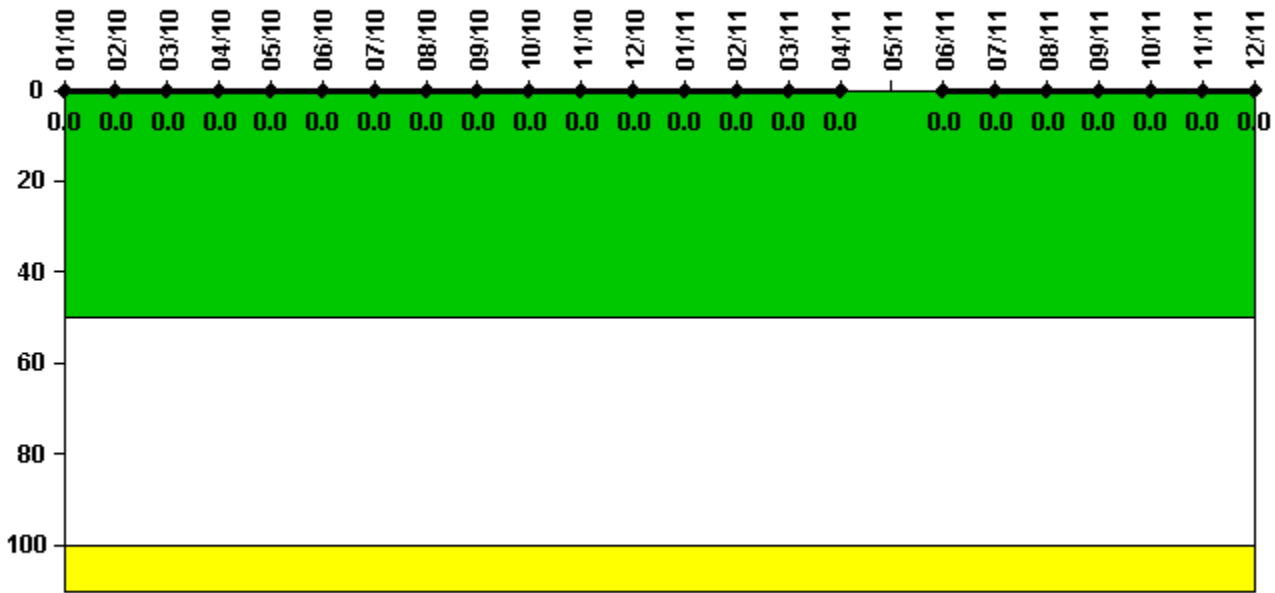
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	3.43E-09	3.24E-09	3.50E-09	3.57E-09	4.37E-09	2.11E-09	1.38E-09	1.21E-09
URI (Δ CDF)	-1.99E-08	-2.09E-08	-2.13E-08	-2.18E-08	-2.23E-08	-2.28E-08	-2.27E-08	-2.31E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-2.10E-08	-2.10E-08	-2.20E-08

Licensee Comments: none

Reactor Coolant System Activity



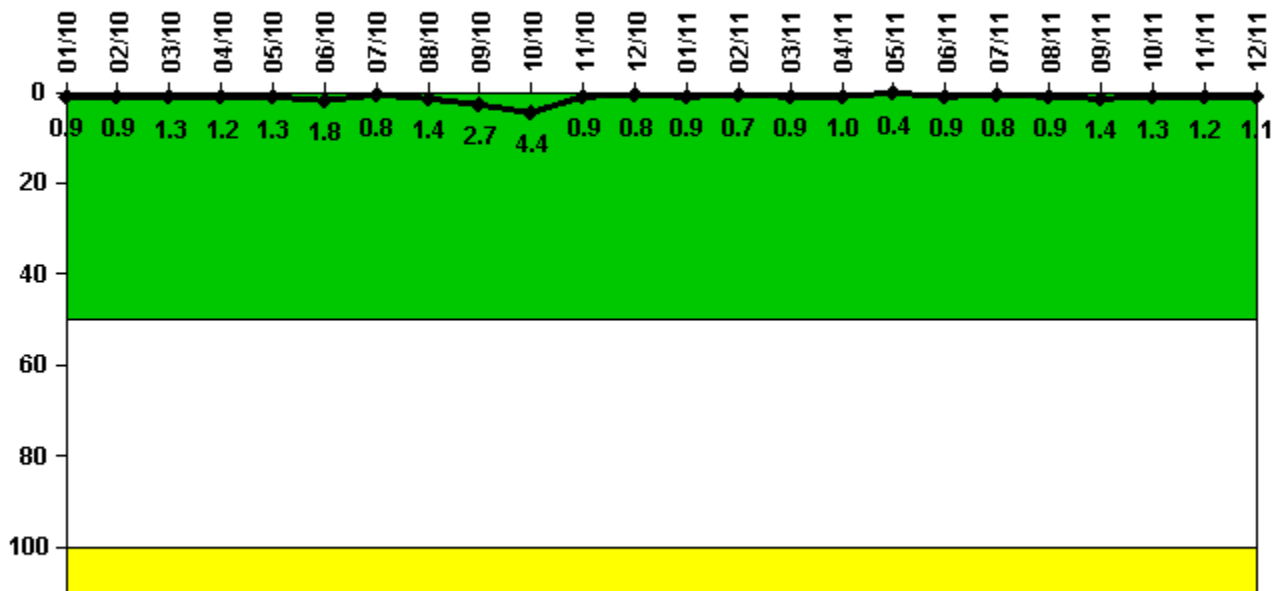
Thresholds: White > 50.0 Yellow > 100.0

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	0.000161	0.000185	0.000263	0.000236	0.000248	0.000204	0.000375	0.000316	0.000209	0.000270	0.000219	0.000250
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum activity	0.000256	0.000266	0.000277	0.000281	N/A	0.000140	0.000120	0.000131	0.000212	0.000155	0.000315	0.000198
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	N/A	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



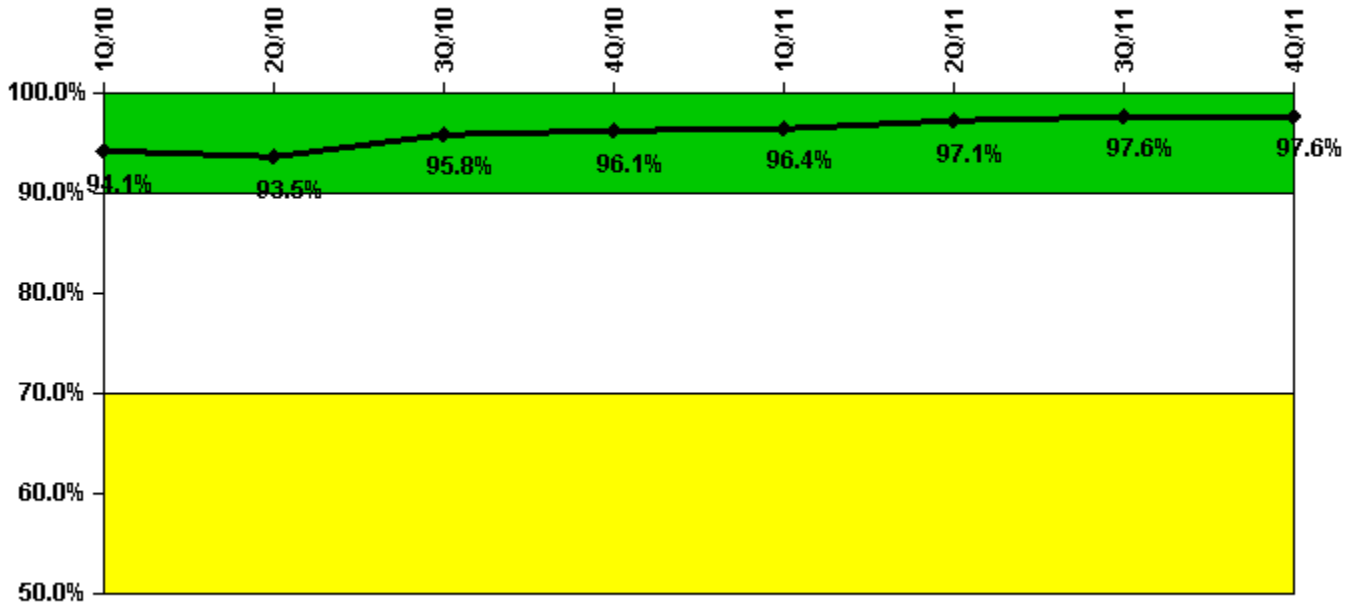
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.090	0.090	0.130	0.120	0.130	0.180	0.080	0.140	0.270	0.440	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	0.9	0.9	1.3	1.2	1.3	1.8	0.8	1.4	2.7	4.4	0.9	0.8
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	0.090	0.070	0.090	0.100	0.043	0.090	0.080	0.090	0.140	0.130	0.120	0.110
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.9	0.7	0.9	1.0	0.4	0.9	0.8	0.9	1.4	1.3	1.2	1.1

Licensee Comments: none

Drill/Exercise Performance



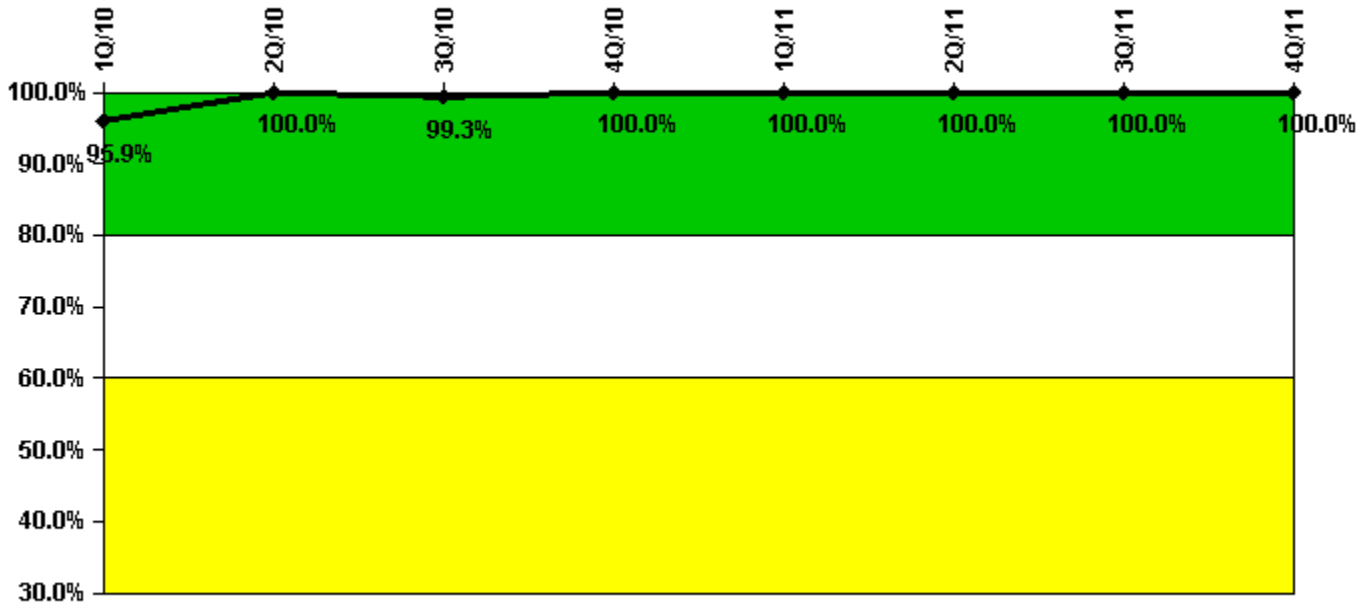
Thresholds: White < 90.0% Yellow < 70.0%

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



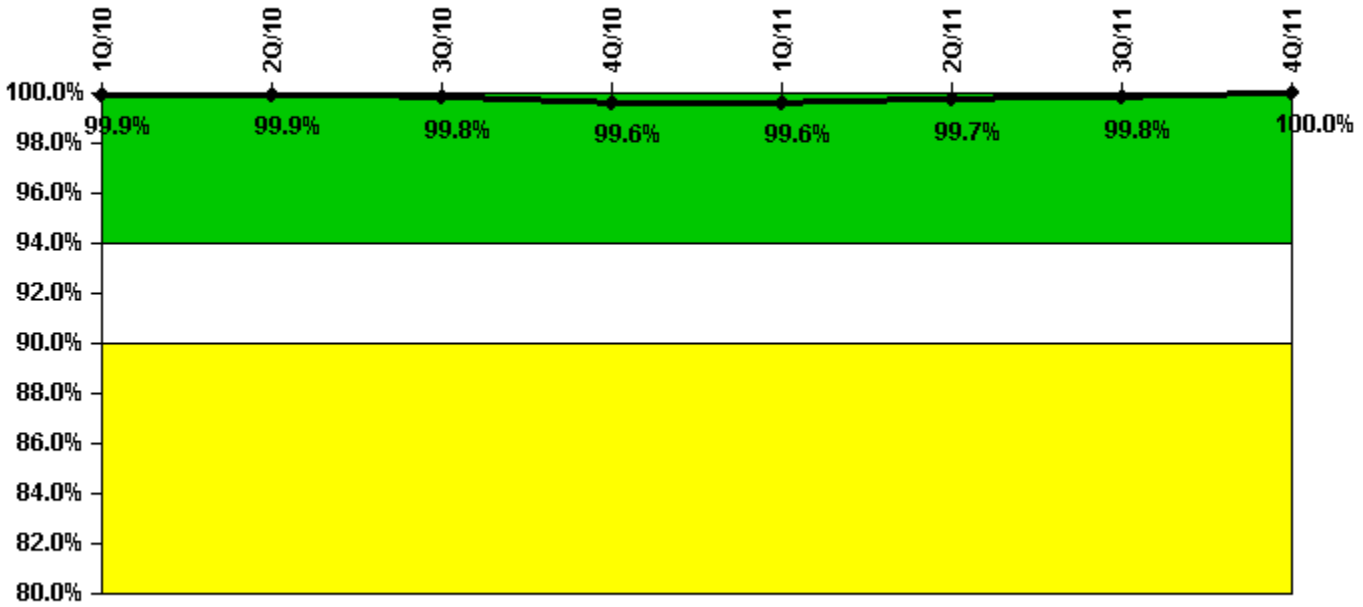
Thresholds: White < 80.0% Yellow < 60.0%

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



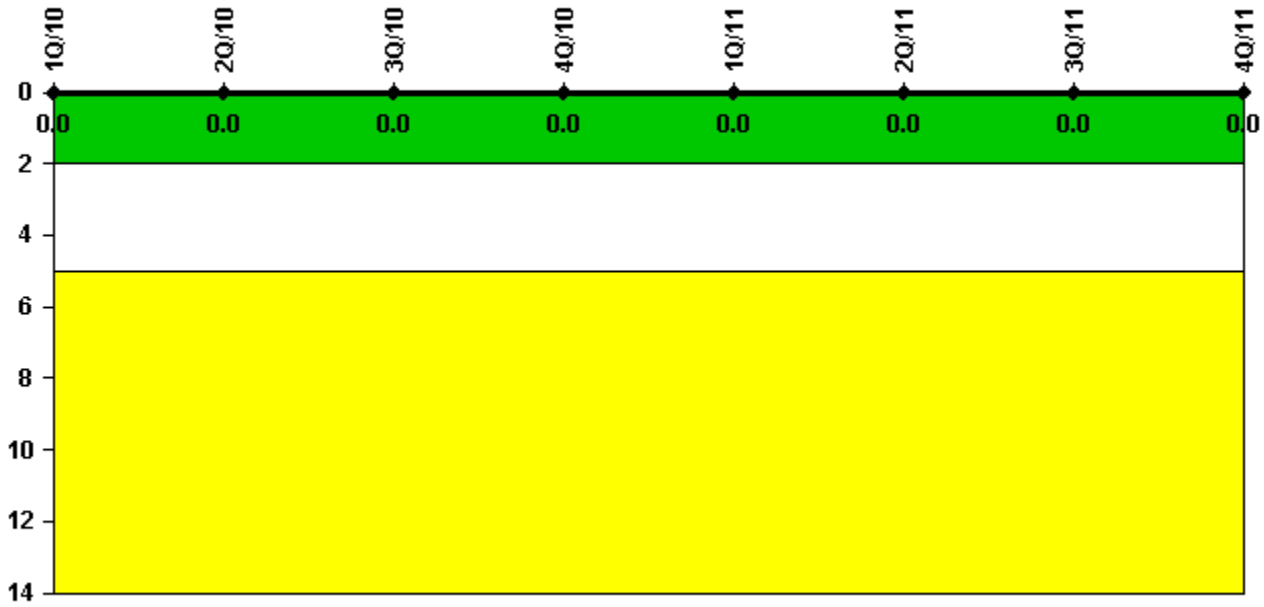
Thresholds: White < 94.0% Yellow < 90.0%

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



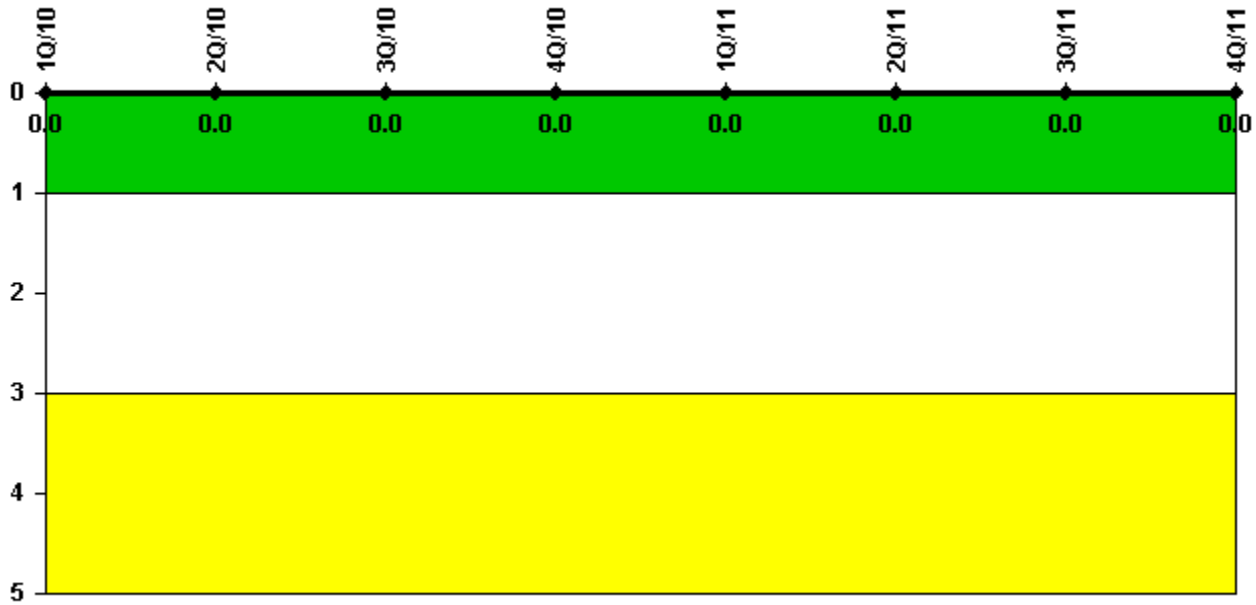
Thresholds: White > 2.0 Yellow > 5.0

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

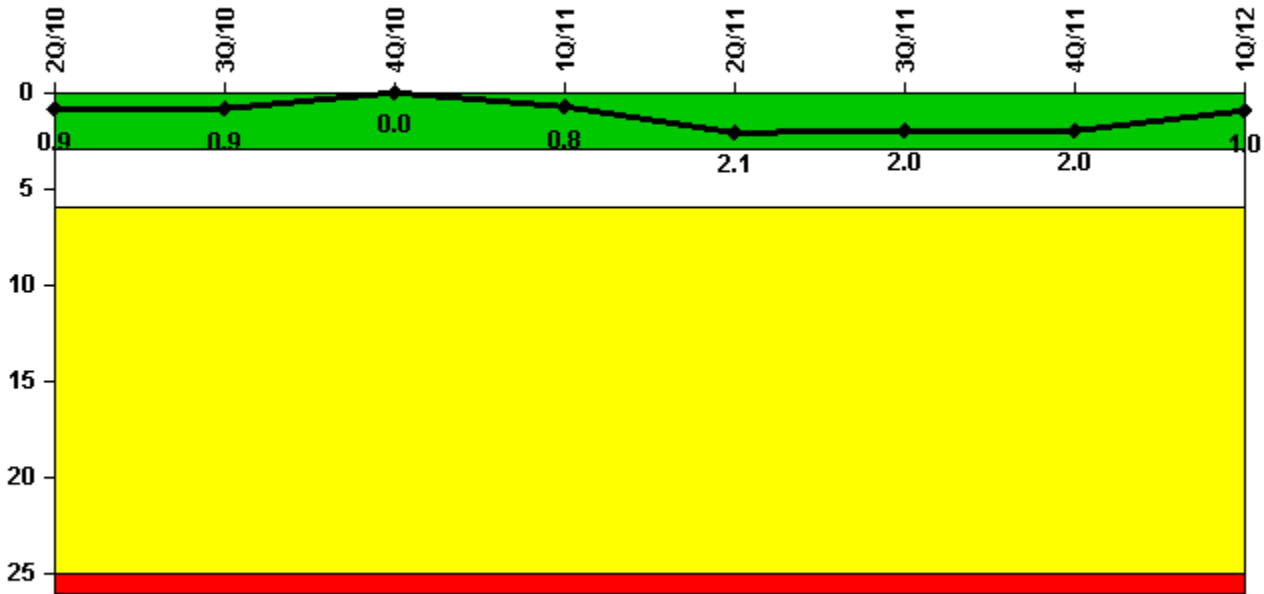
[Security](#) information not publicly available.

Surry 2

1Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



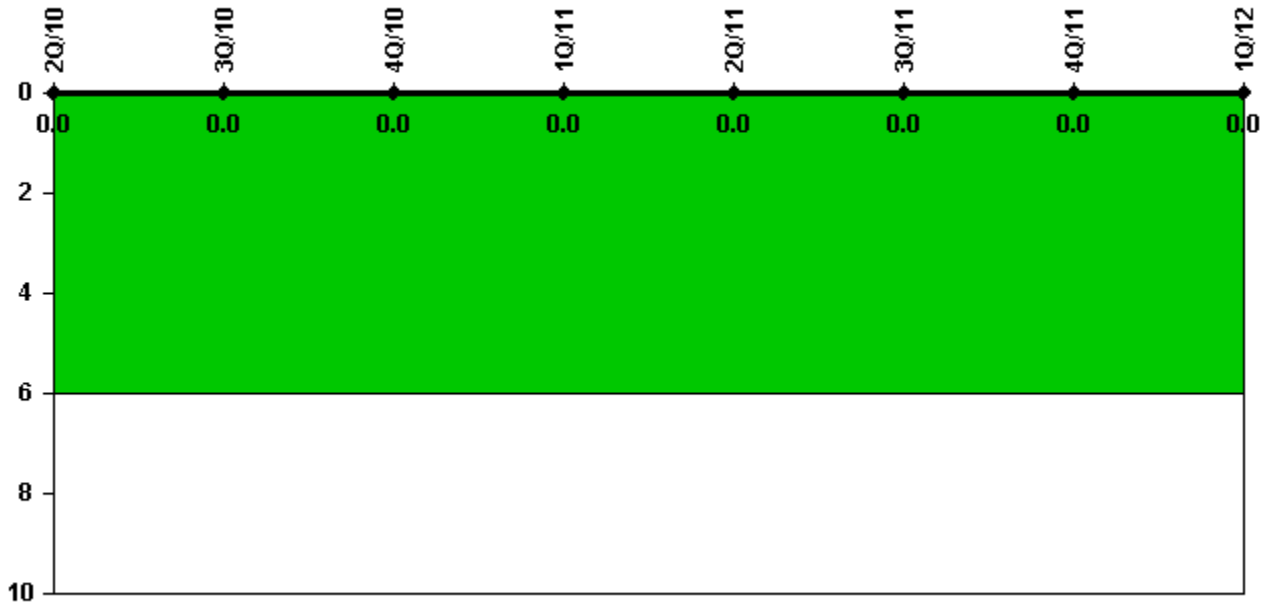
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned scrams	0	0	0	1.0	1.0	0	0	0
Critical hours	2184.0	2107.9	2209.0	1789.4	623.8	2208.0	2209.0	2183.0
Indicator value	0.9	0.9	0	0.8	2.1	2.0	2.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



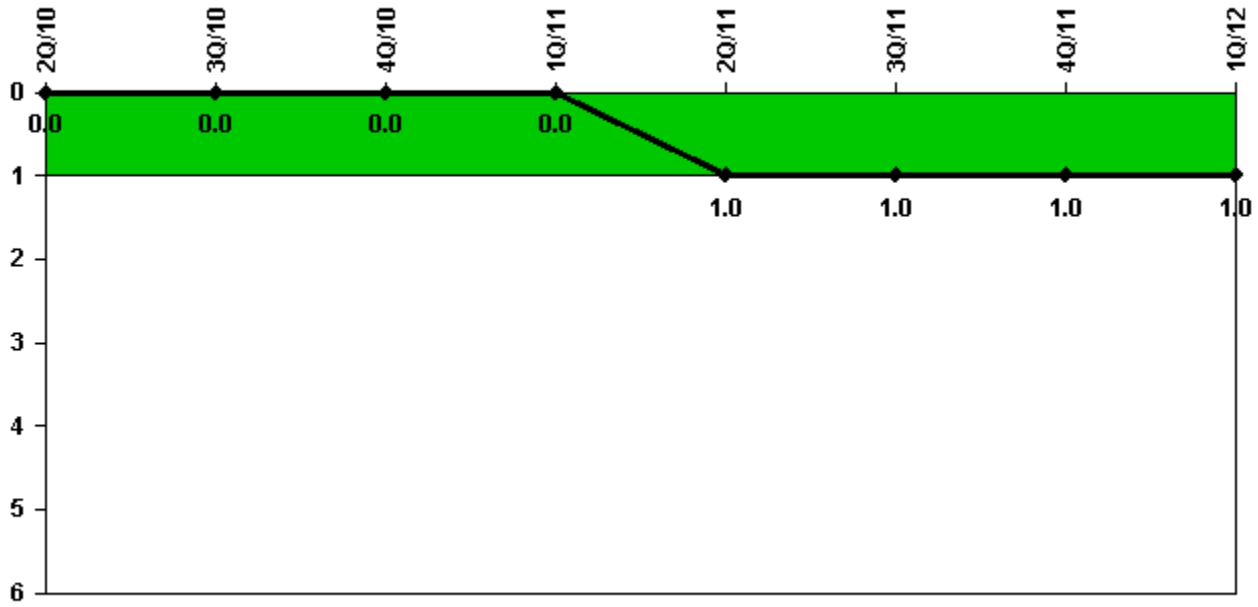
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2184.0	2107.9	2209.0	1789.4	623.8	2208.0	2209.0	2183.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



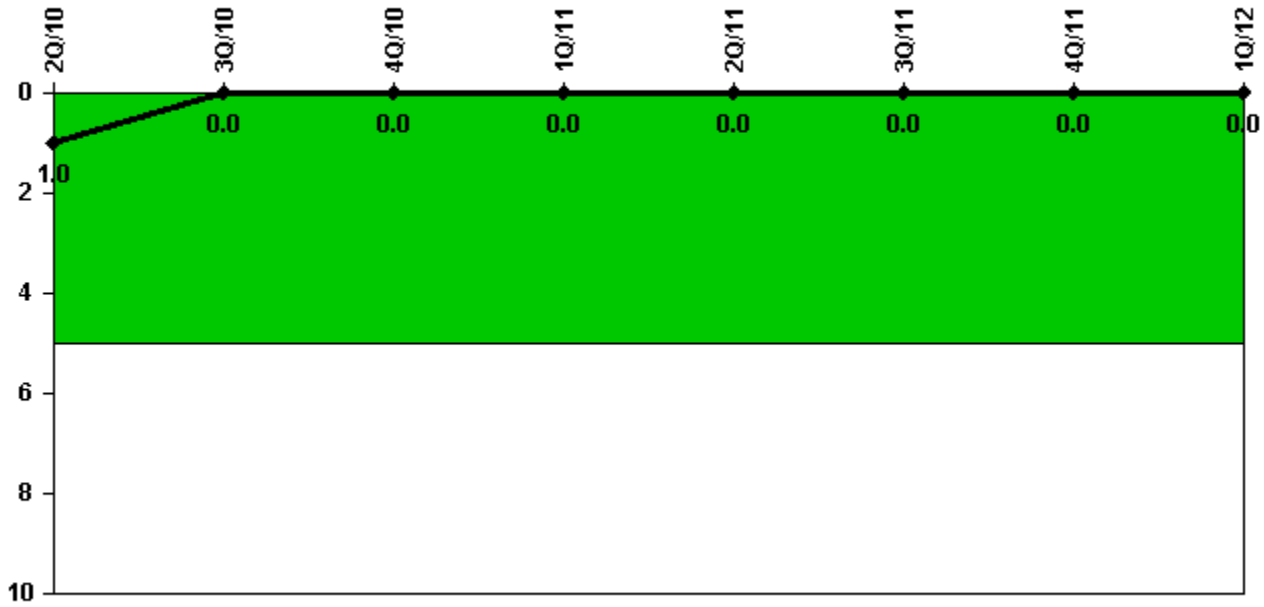
Thresholds: White > 1.0

Notes

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



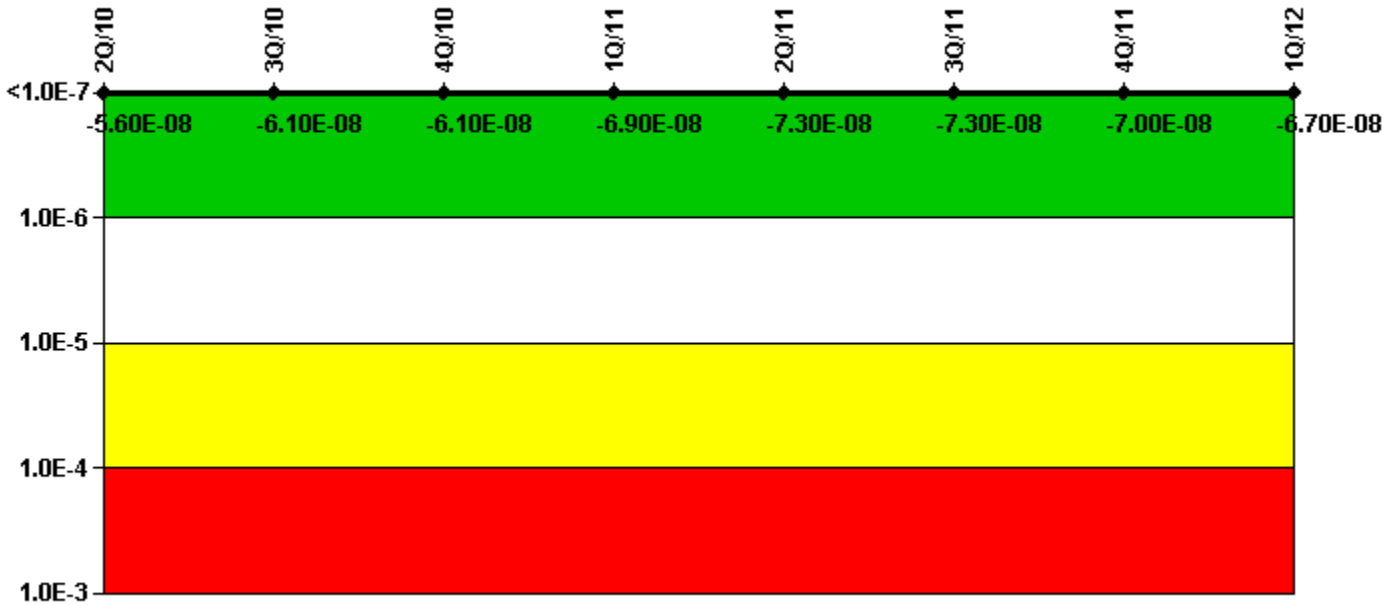
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/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

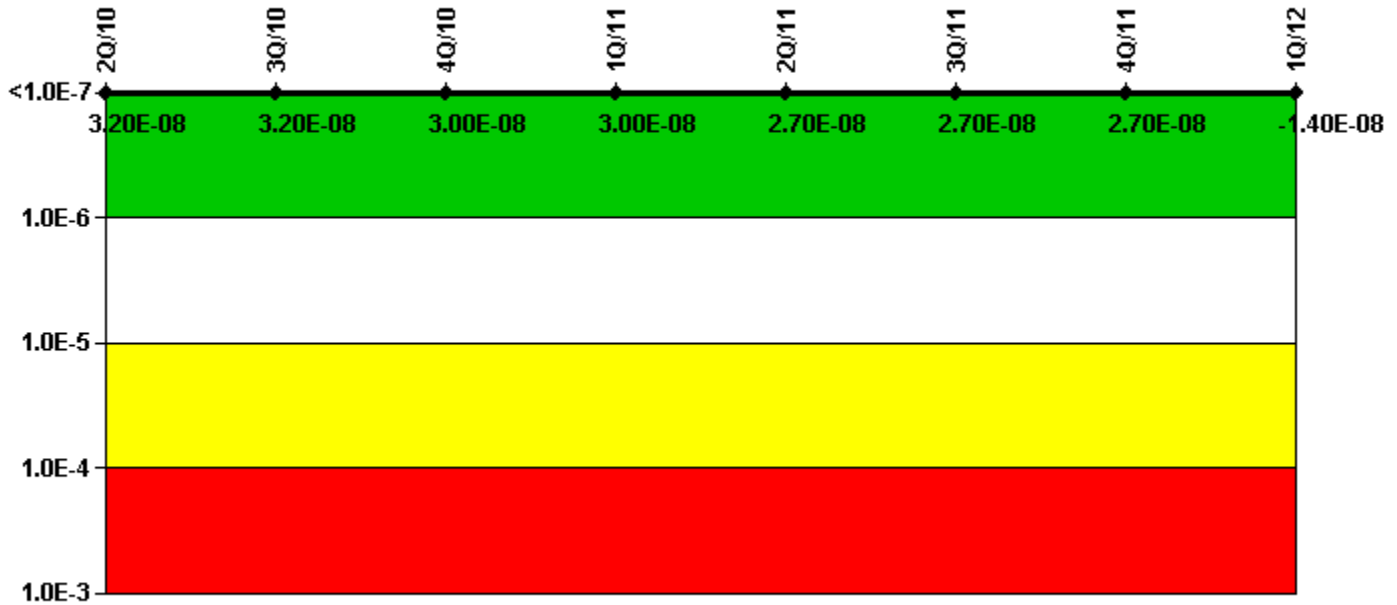
Mitigating Systems Performance Index, Emergency AC Power System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	2.19E-08	9.34E-09	1.01E-08	-2.16E-09	-2.05E-09	-2.69E-09	-2.99E-09	-3.00E-09
URI (Δ CDF)	-7.78E-08	-7.06E-08	-7.12E-08	-6.72E-08	-7.05E-08	-7.00E-08	-6.73E-08	-6.36E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.60E-08	-6.10E-08	-6.10E-08	-6.90E-08	-7.30E-08	-7.30E-08	-7.00E-08	-6.70E-08

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.

3Q/10: Final evaluation of a voltage regulator failure in April 2010 was determined to be a MSPI failure. Historical data was corrected with no change in color.

Mitigating Systems Performance Index, High Pressure Injection System



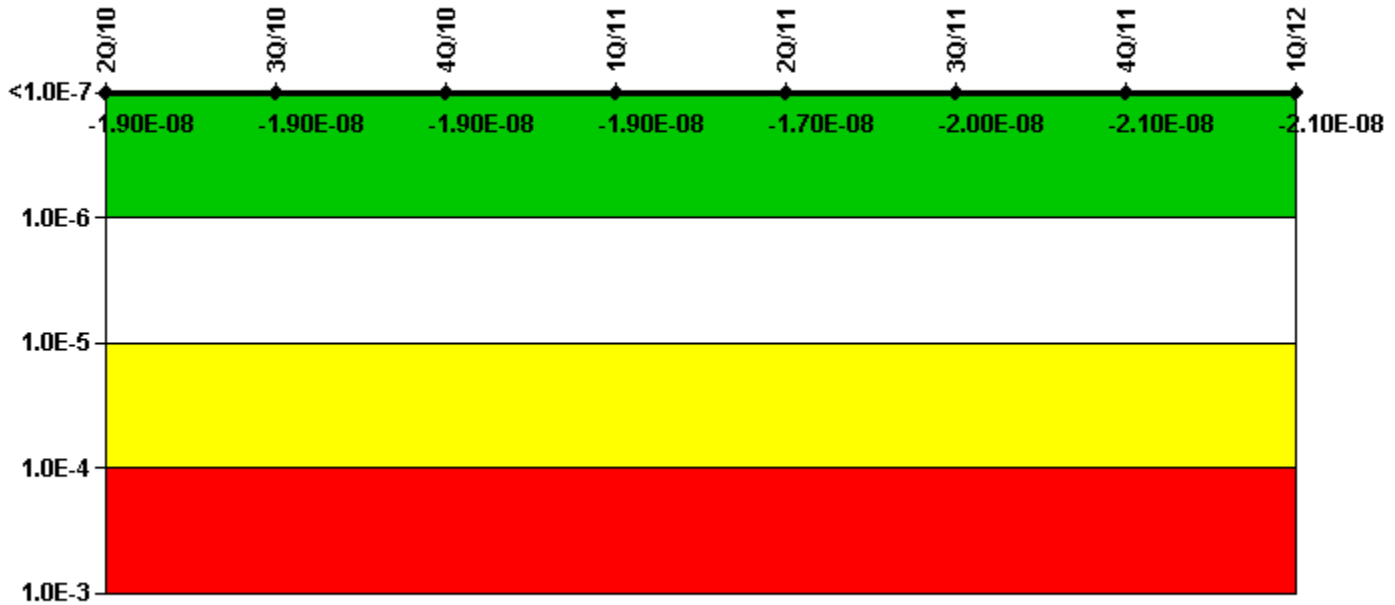
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	4.06E-09	3.92E-09	3.92E-09	4.47E-09	1.55E-09	1.68E-09	2.30E-09	1.95E-09
URI (Δ CDF)	2.80E-08	2.82E-08	2.58E-08	2.57E-08	2.56E-08	2.50E-08	2.47E-08	-1.58E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.20E-08	3.20E-08	3.00E-08	3.00E-08	2.70E-08	2.70E-08	2.70E-08	-1.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



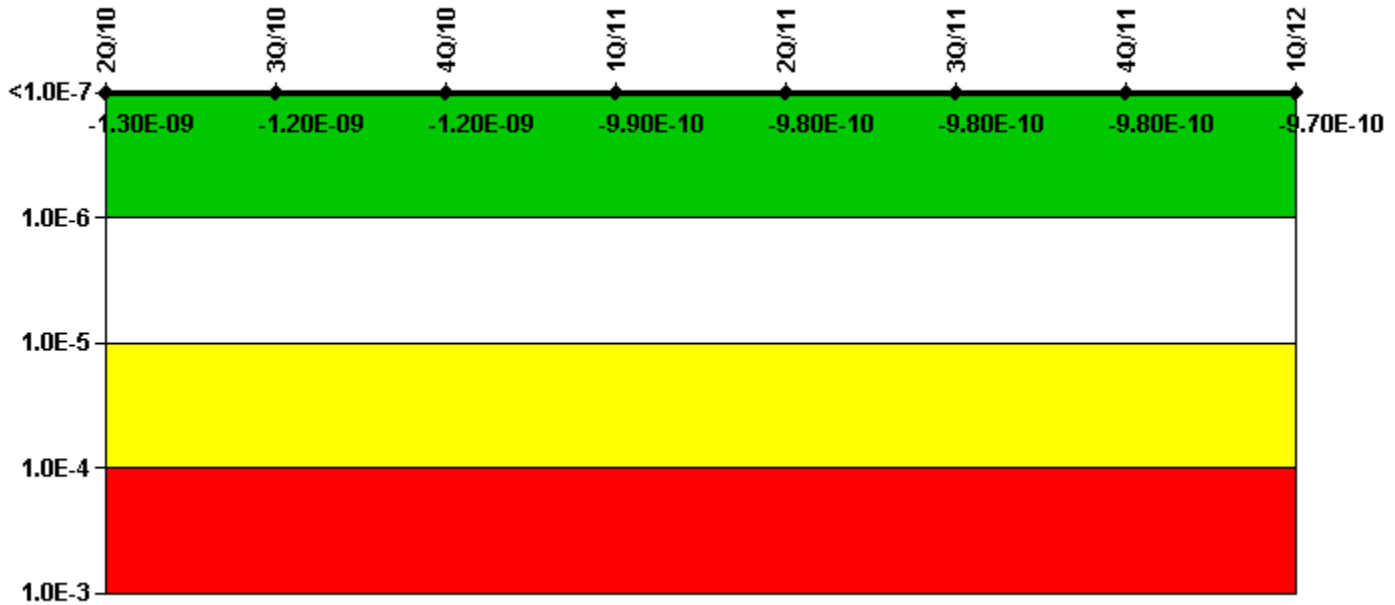
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	-3.39E-09	-3.43E-09	-3.56E-09	-2.36E-09	-1.49E-09	-5.50E-09	-5.77E-09	-5.77E-09
URI (Δ CDF)	-1.59E-08	-1.59E-08	-1.59E-08	-1.65E-08	-1.54E-08	-1.49E-08	-1.49E-08	-1.54E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.70E-08	-2.00E-08	-2.10E-08	-2.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



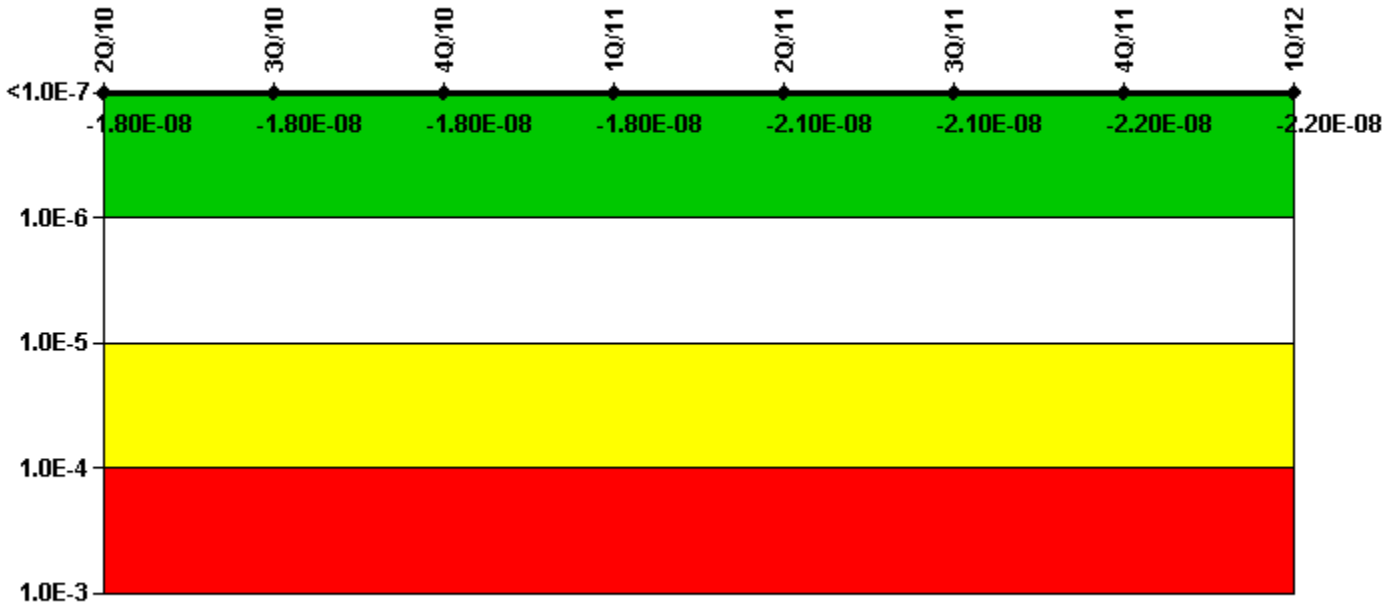
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	-2.52E-10	-1.94E-10	-1.79E-10	9.76E-11	1.13E-10	1.25E-10	1.30E-10	1.53E-10
URI (Δ CDF)	-1.04E-09	-1.04E-09	-1.06E-09	-1.08E-09	-1.09E-09	-1.10E-09	-1.11E-09	-1.13E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-09	-1.20E-09	-1.20E-09	-9.90E-10	-9.80E-10	-9.80E-10	-9.80E-10	-9.70E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



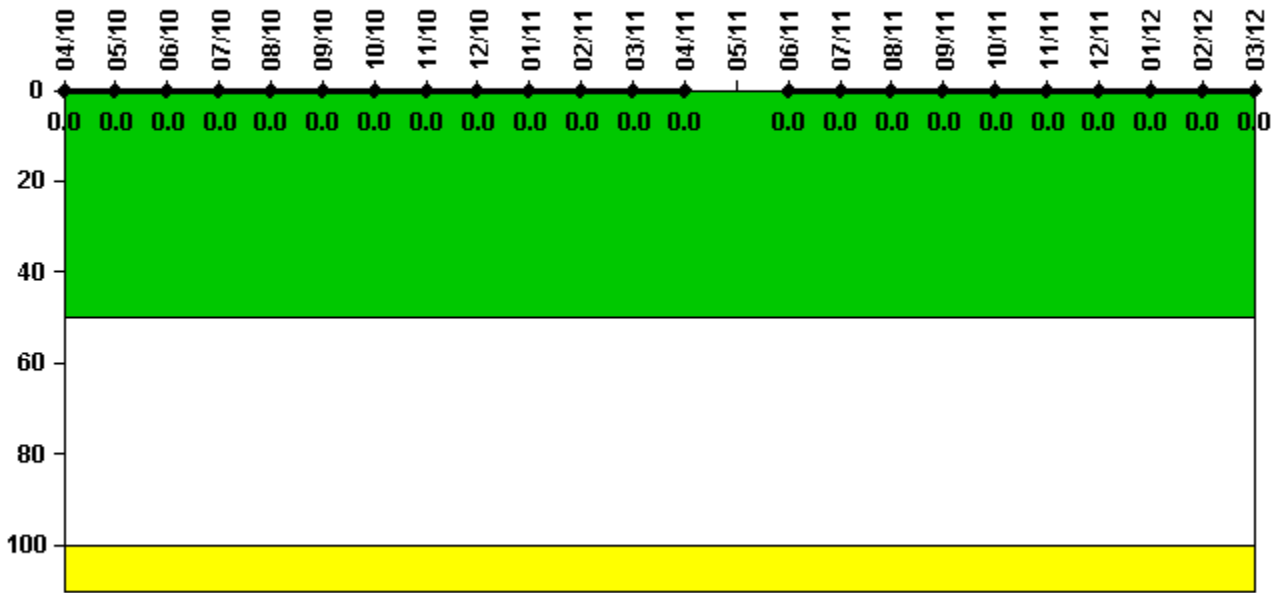
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	3.24E-09	3.50E-09	3.57E-09	4.37E-09	2.11E-09	1.38E-09	1.21E-09	1.01E-09
URI (Δ CDF)	-2.09E-08	-2.13E-08	-2.18E-08	-2.23E-08	-2.28E-08	-2.27E-08	-2.31E-08	-2.35E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-2.10E-08	-2.10E-08	-2.20E-08	-2.20E-08

Licensee Comments: none

Reactor Coolant System Activity



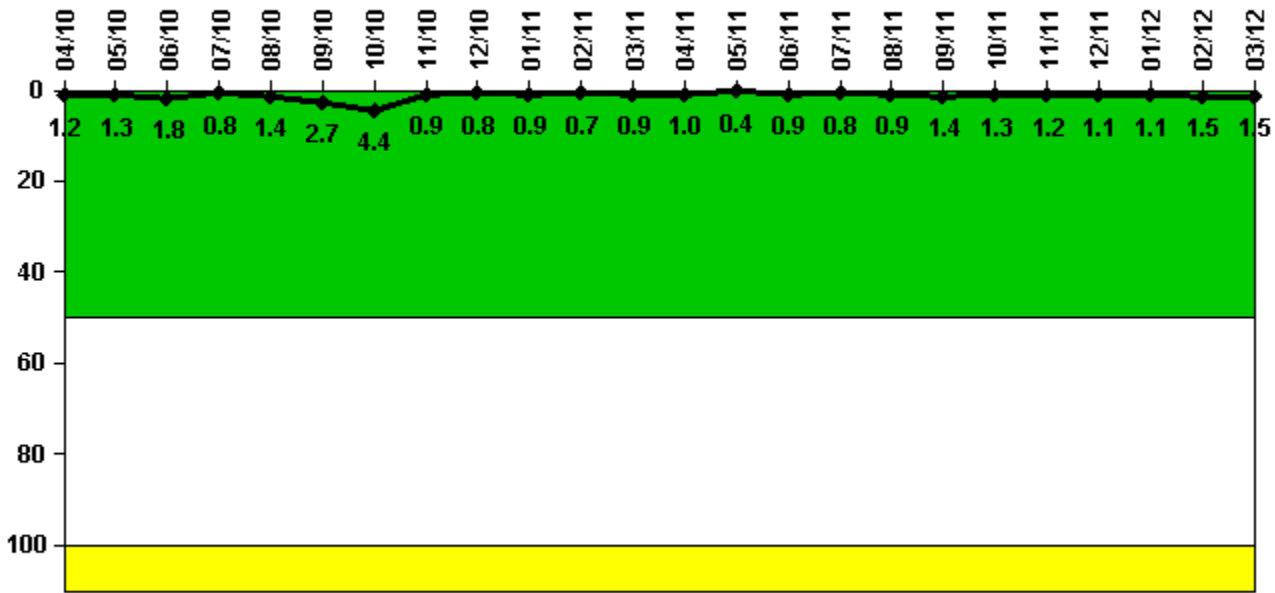
Thresholds: White > 50.0 Yellow > 100.0

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	0.000236	0.000248	0.000204	0.000375	0.000316	0.000209	0.000270	0.000219	0.000250	0.000256	0.000266	0.000277
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum activity	0.000281	N/A	0.000140	0.000120	0.000131	0.000212	0.000155	0.000315	0.000198	0.000149	0.000196	0.000185
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	N/A	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



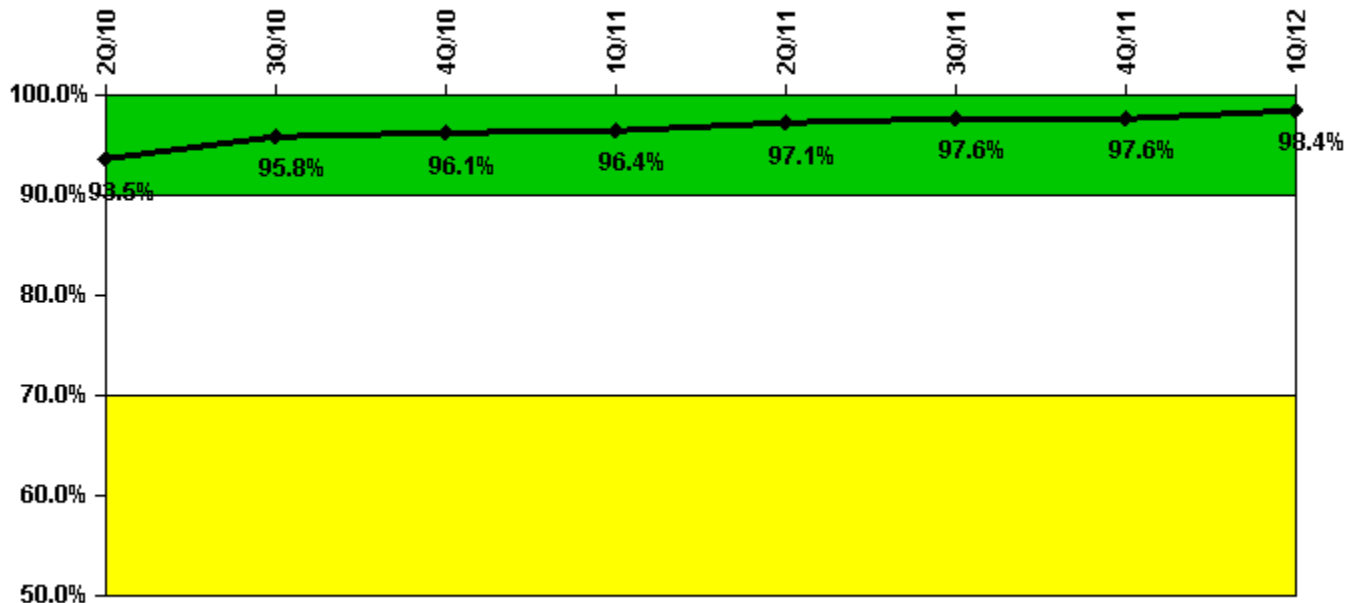
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.120	0.130	0.180	0.080	0.140	0.270	0.440	0.090	0.080	0.090	0.070	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	1.3	1.8	0.8	1.4	2.7	4.4	0.9	0.8	0.9	0.7	0.9
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	0.100	0.043	0.090	0.080	0.090	0.140	0.130	0.120	0.110	0.110	0.150	0.150
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	0.4	0.9	0.8	0.9	1.4	1.3	1.2	1.1	1.1	1.5	1.5

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

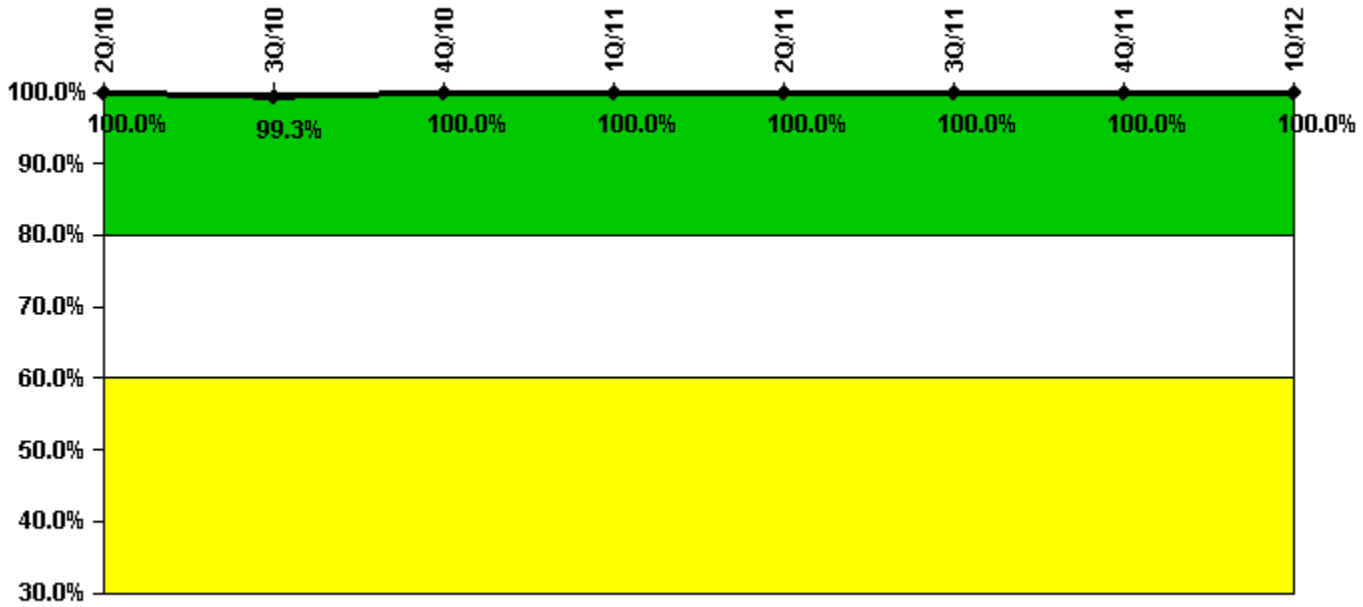
Notes

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



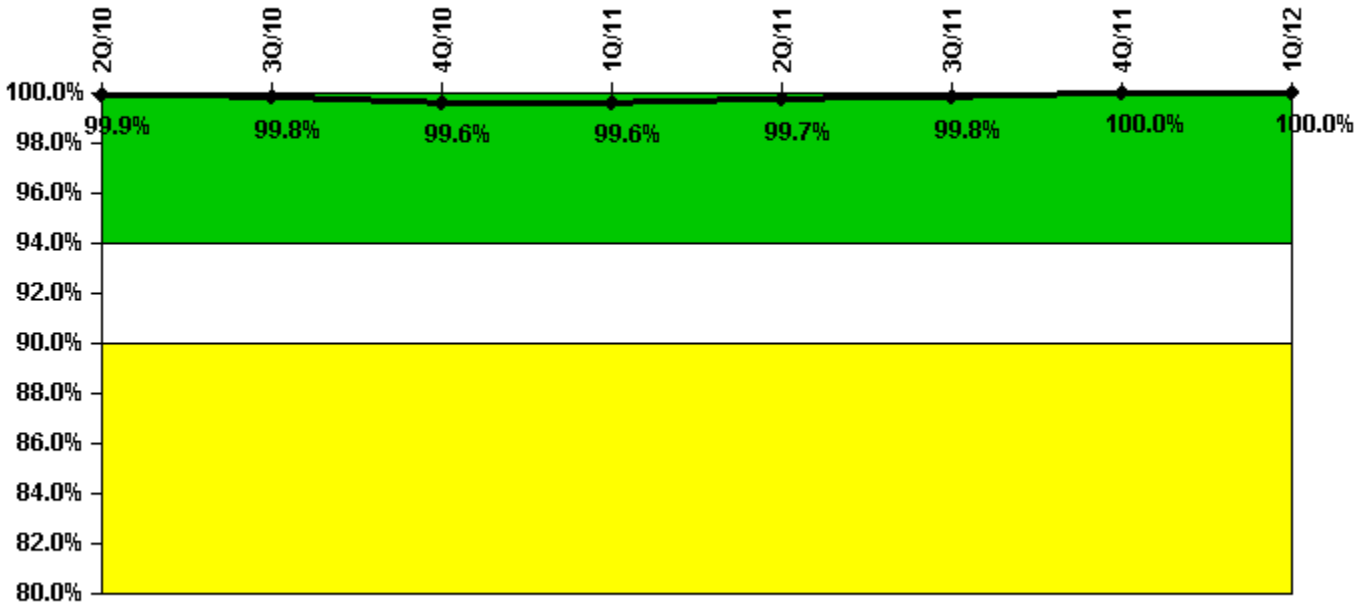
Thresholds: White < 80.0% Yellow < 60.0%

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%

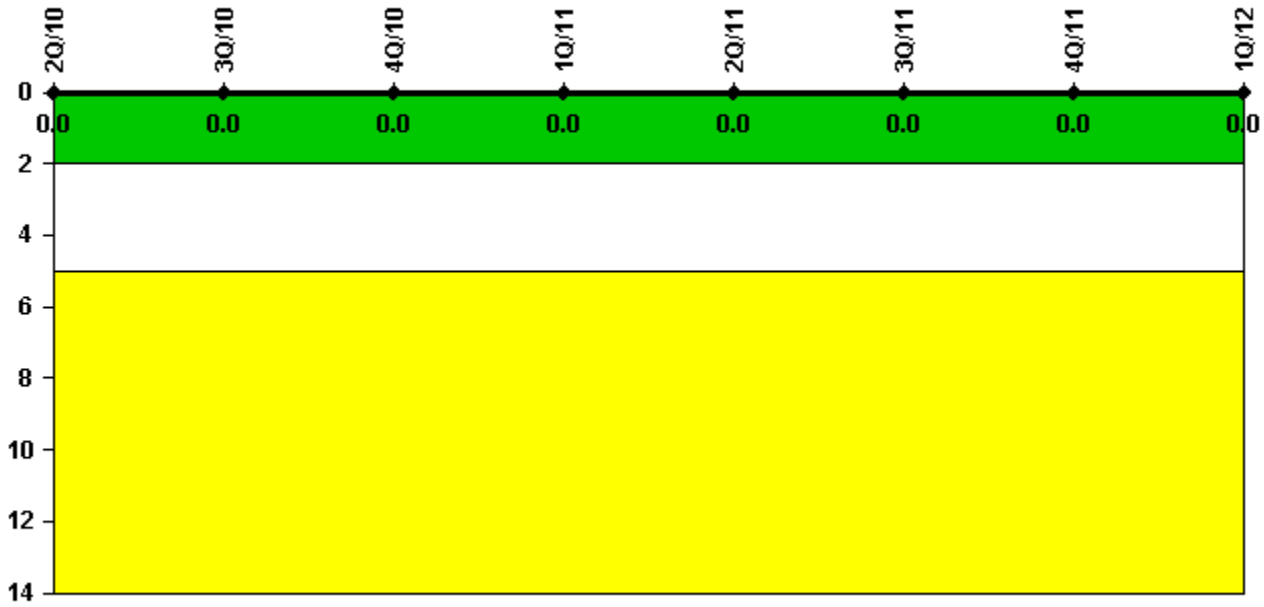
Notes

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



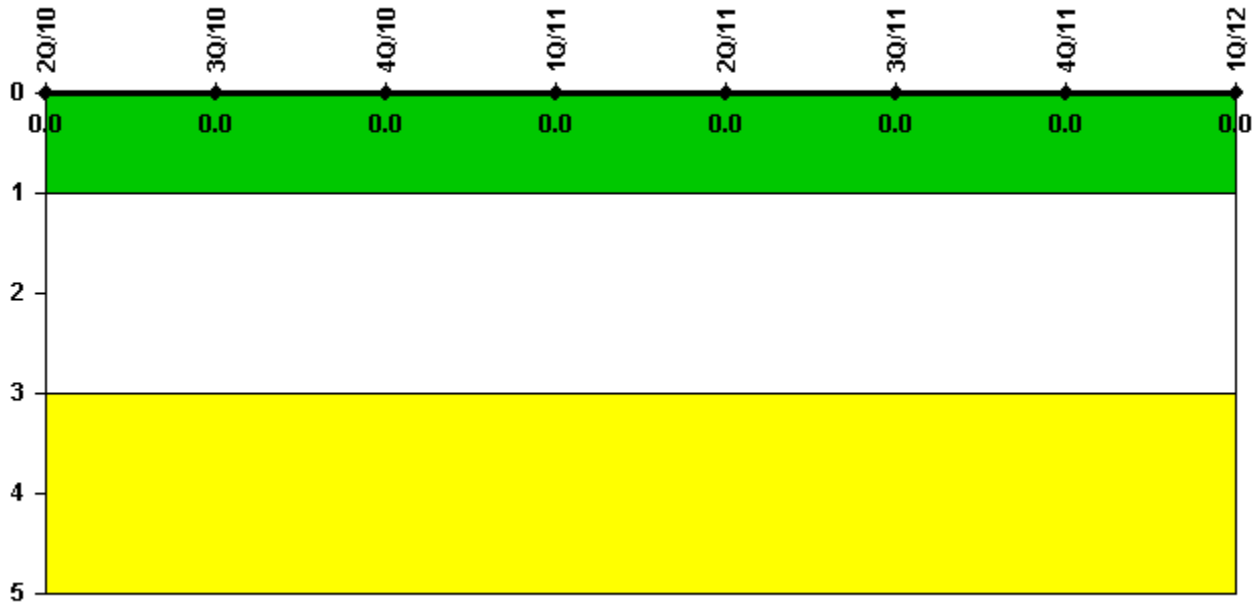
Thresholds: White > 2.0 Yellow > 5.0

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.

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

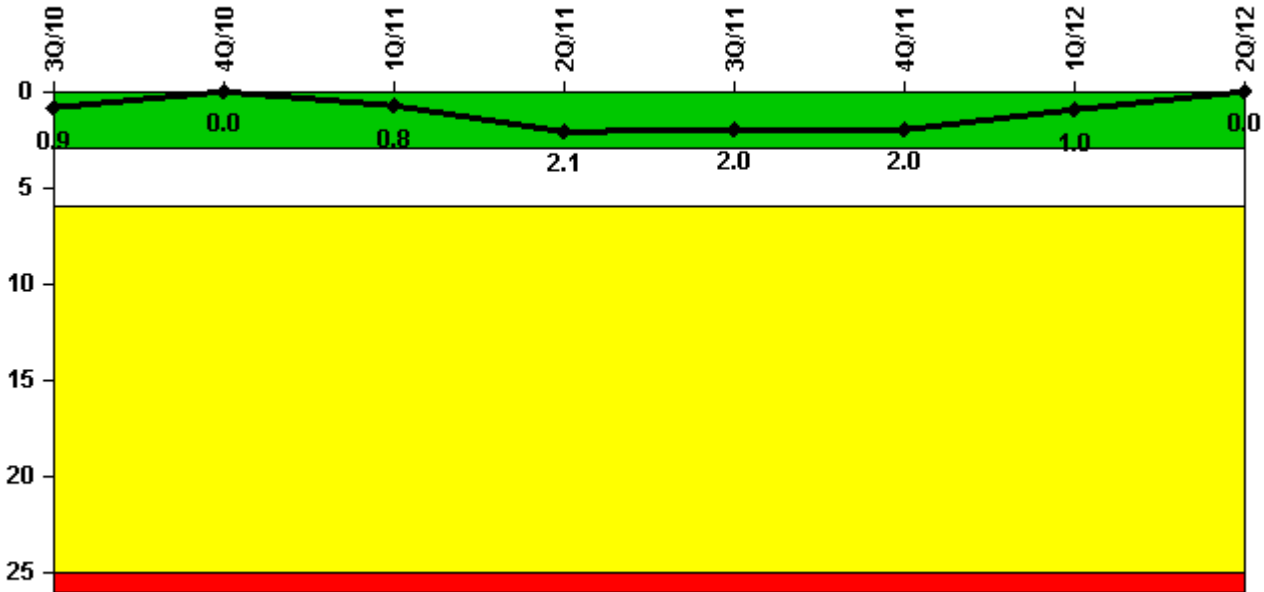
Last Modified: April 24, 2012

Surry 2

2Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



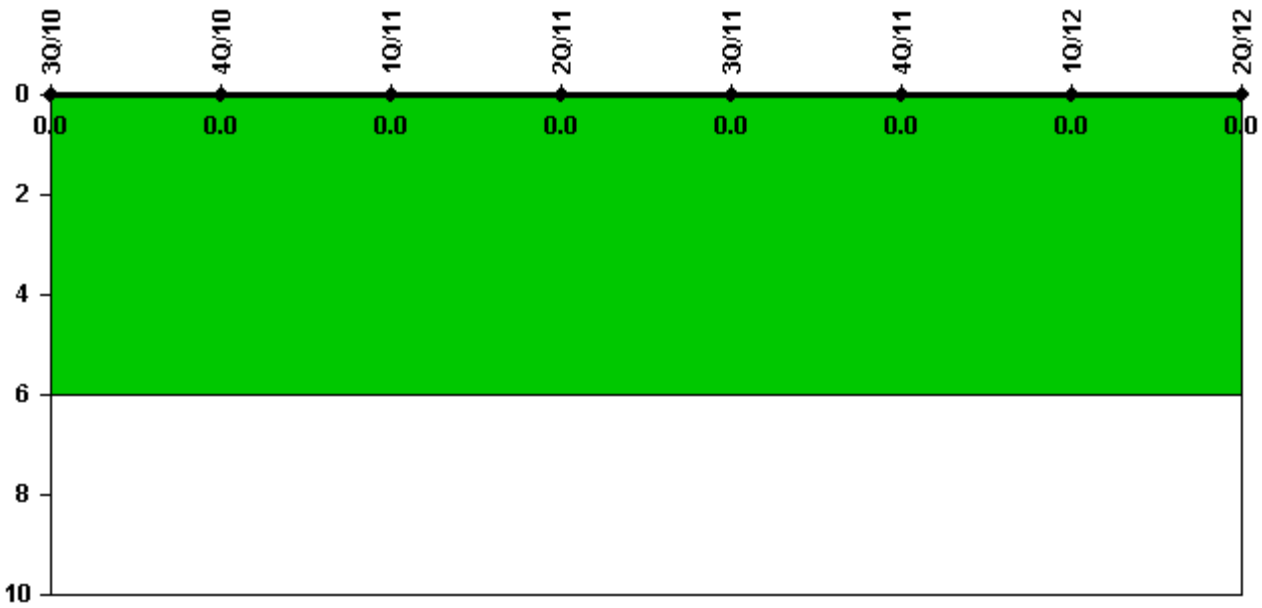
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned scrams	0	0	1.0	1.0	0	0	0	0
Critical hours	2107.9	2209.0	1789.4	623.8	2208.0	2209.0	2183.0	2184.0
Indicator value	0.9	0	0.8	2.1	2.0	2.0	1.0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



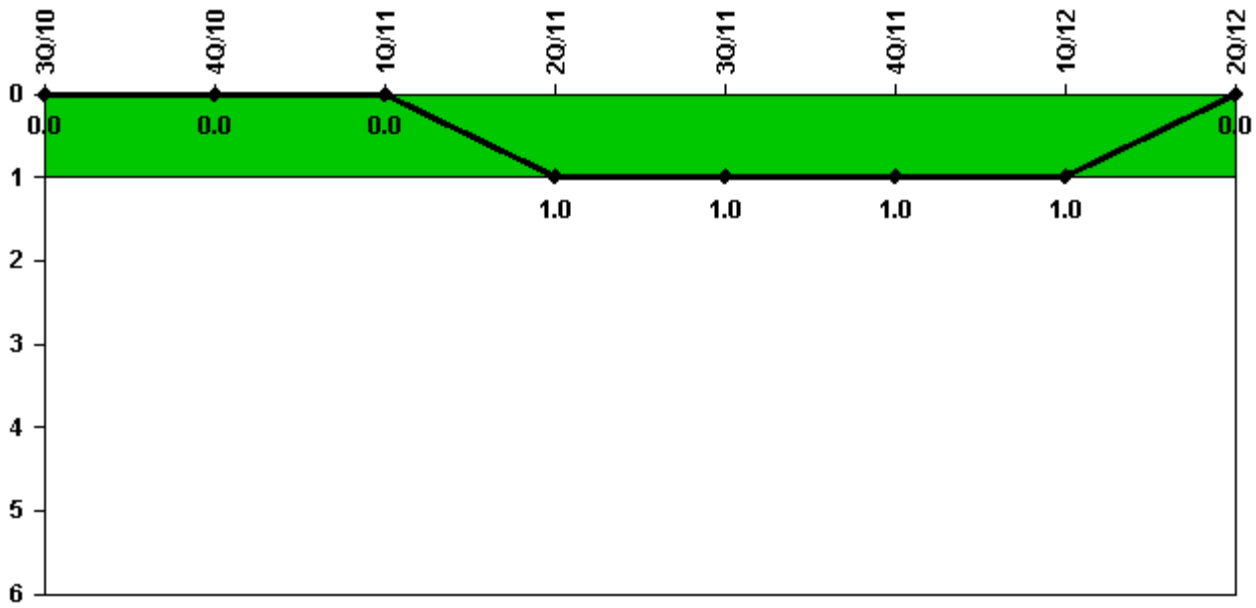
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/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	2107.9	2209.0	1789.4	623.8	2208.0	2209.0	2183.0	2184.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



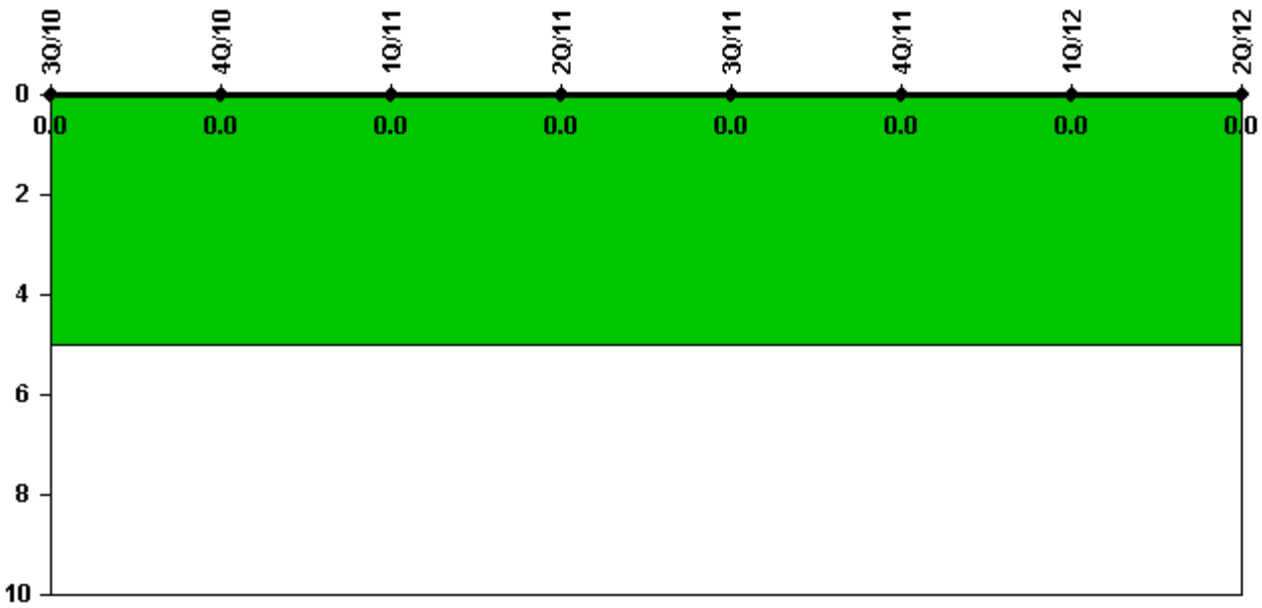
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/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	0.0	0.0	0.0	1.0	1.0	1.0	1.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



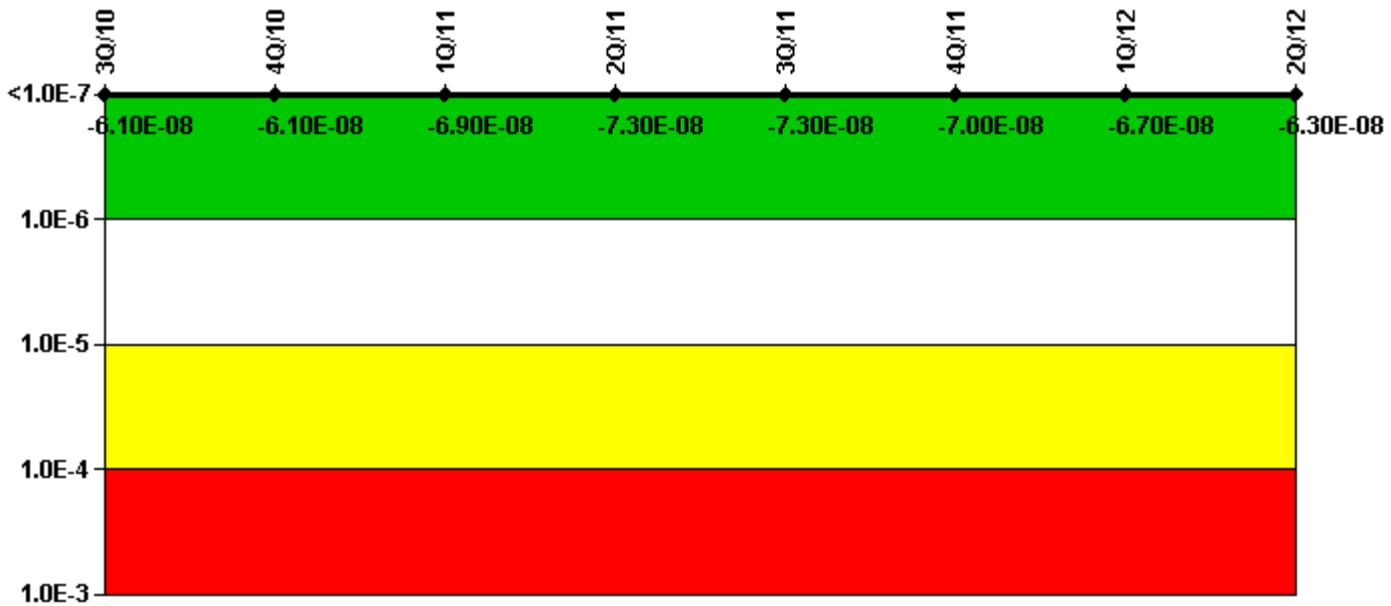
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/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

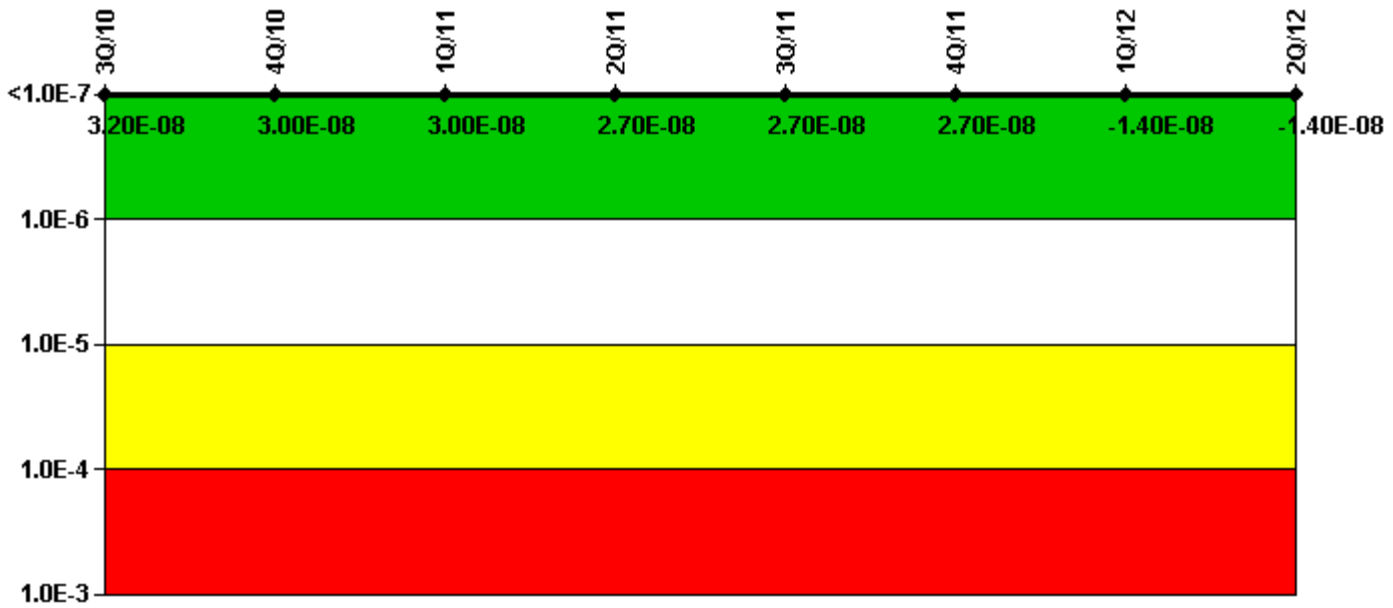
Mitigating Systems Performance Index, Emergency AC Power System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (Δ CDF)	9.34E-09	1.01E-08	-2.16E-09	-2.05E-09	-2.69E-09	-2.99E-09	-3.00E-09	-3.00E-09
URI (Δ CDF)	-7.06E-08	-7.12E-08	-6.72E-08	-7.05E-08	-7.00E-08	-6.73E-08	-6.36E-08	-6.03E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.10E-08	-6.10E-08	-6.90E-08	-7.30E-08	-7.30E-08	-7.00E-08	-6.70E-08	-6.30E-08

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.

3Q/10: Final evaluation of a voltage regulator failure in April 2010 was determined to be a MSPI failure. Historical data was corrected with no change in color.

Mitigating Systems Performance Index, High Pressure Injection System



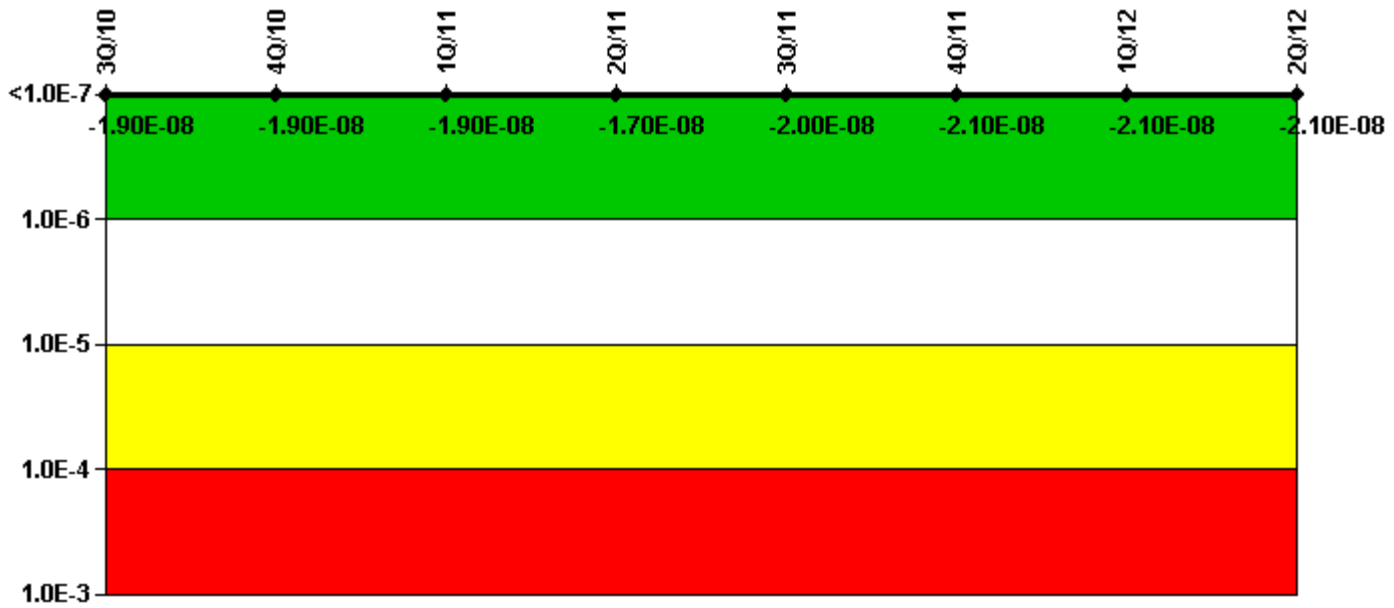
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	3.92E-09	3.92E-09	4.47E-09	1.55E-09	1.68E-09	2.30E-09	1.95E-09	1.92E-09
URI (Δ CDF)	2.82E-08	2.58E-08	2.57E-08	2.56E-08	2.50E-08	2.47E-08	-1.58E-08	-1.55E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.20E-08	3.00E-08	3.00E-08	2.70E-08	2.70E-08	2.70E-08	-1.40E-08	-1.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



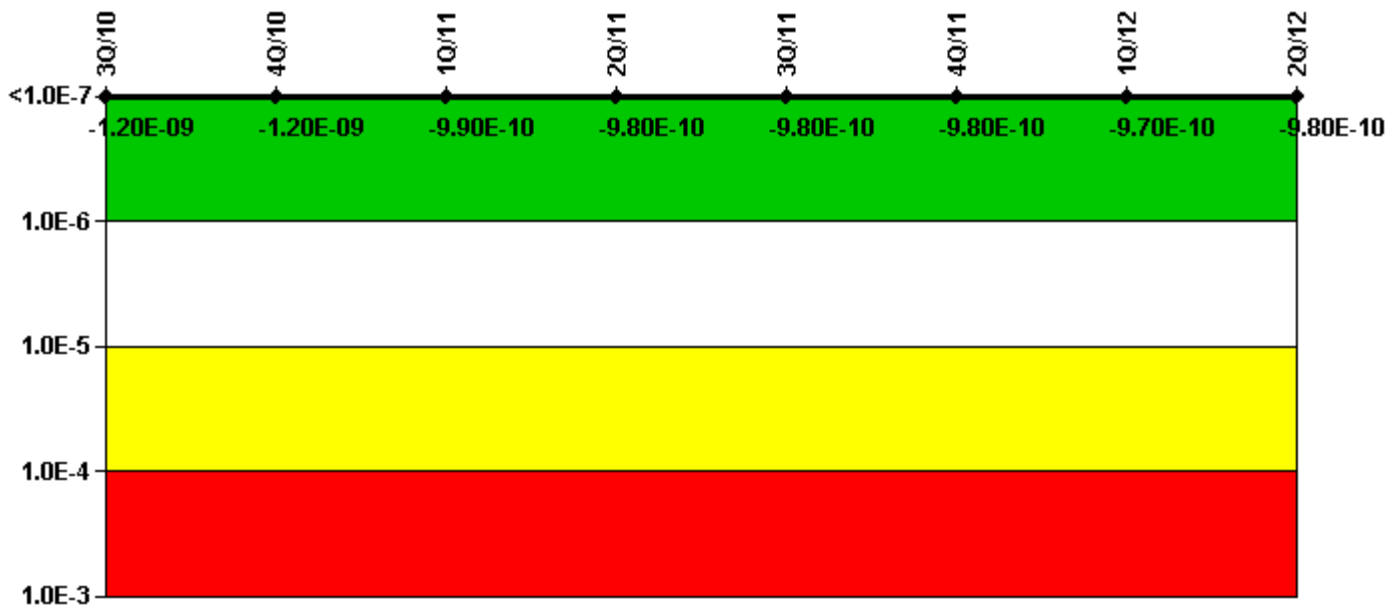
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (Δ CDF)	-3.43E-09	-3.56E-09	-2.36E-09	-1.49E-09	-5.50E-09	-5.77E-09	-5.77E-09	-5.72E-09
URI (Δ CDF)	-1.59E-08	-1.59E-08	-1.65E-08	-1.54E-08	-1.49E-08	-1.49E-08	-1.54E-08	-1.49E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-08	-1.90E-08	-1.90E-08	-1.70E-08	-2.00E-08	-2.10E-08	-2.10E-08	-2.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



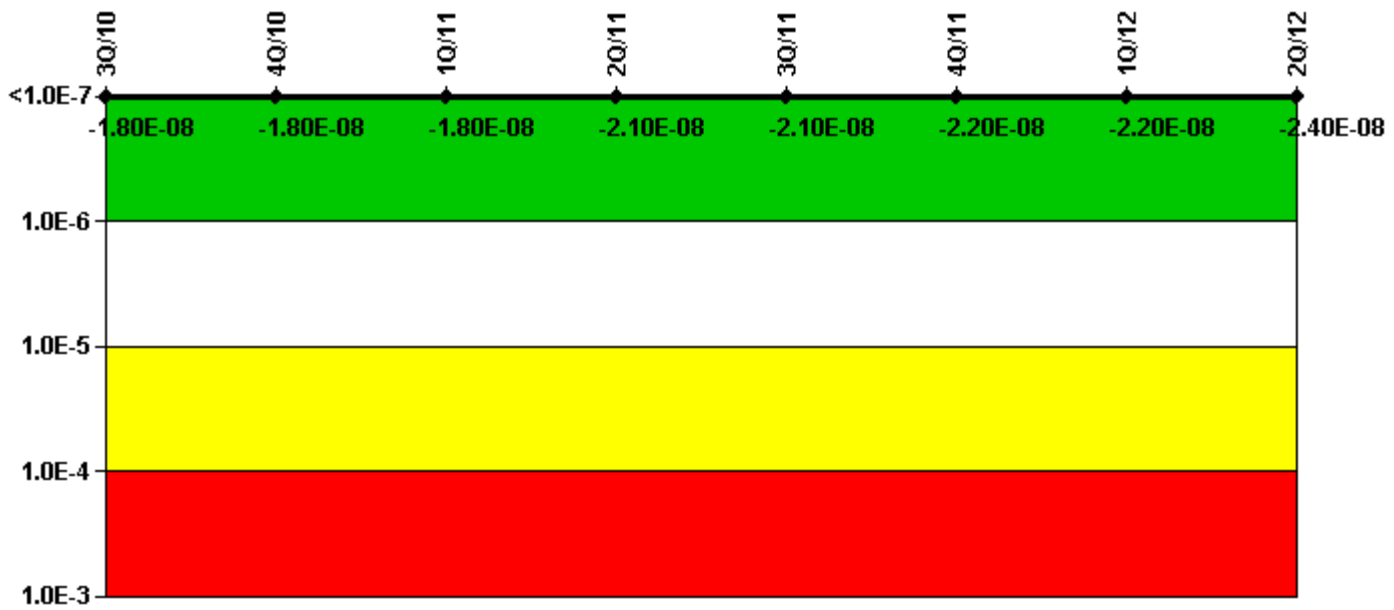
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (Δ CDF)	-1.94E-10	-1.79E-10	9.76E-11	1.13E-10	1.25E-10	1.30E-10	1.53E-10	1.50E-10
URI (Δ CDF)	-1.04E-09	-1.06E-09	-1.08E-09	-1.09E-09	-1.10E-09	-1.11E-09	-1.13E-09	-1.13E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-1.20E-09	-9.90E-10	-9.80E-10	-9.80E-10	-9.80E-10	-9.70E-10	-9.80E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



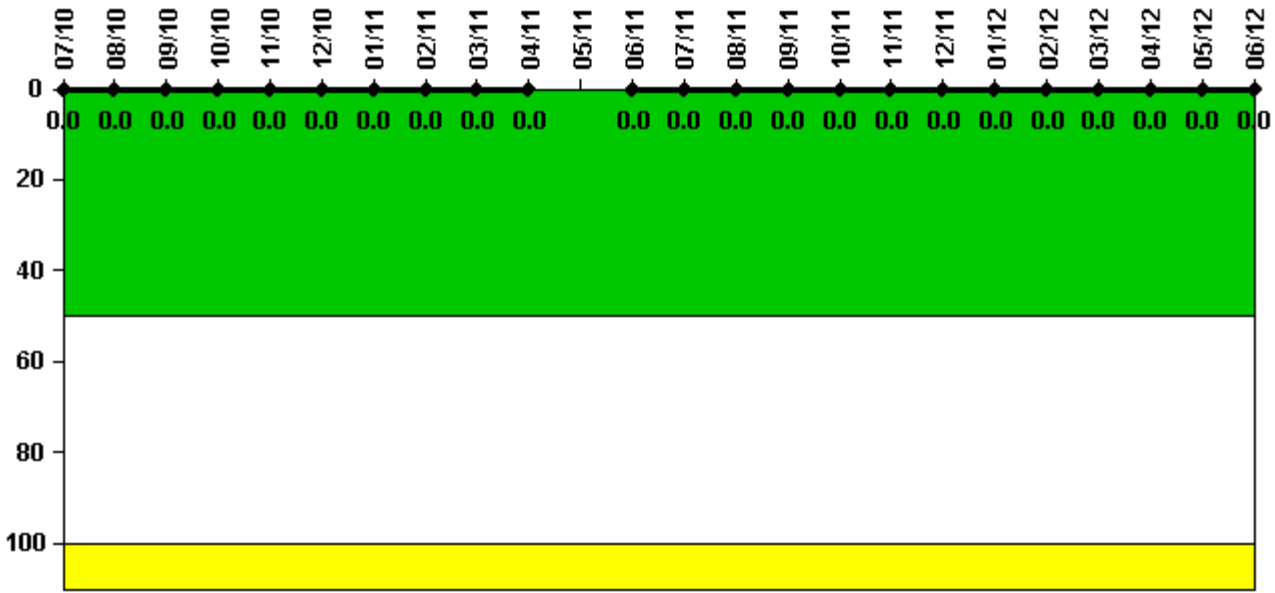
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	3.50E-09	3.57E-09	4.37E-09	2.11E-09	1.38E-09	1.21E-09	1.01E-09	7.76E-13
URI (Δ CDF)	-2.13E-08	-2.18E-08	-2.23E-08	-2.28E-08	-2.27E-08	-2.31E-08	-2.35E-08	-2.37E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-1.80E-08	-1.80E-08	-2.10E-08	-2.10E-08	-2.20E-08	-2.20E-08	-2.40E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

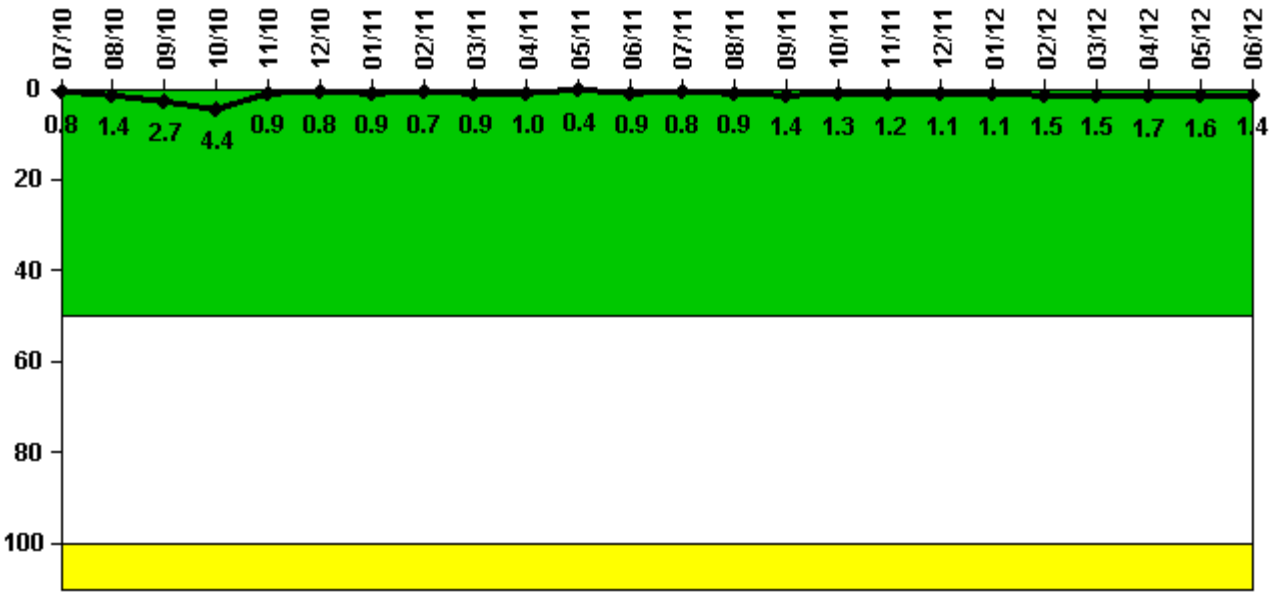
Notes

Reactor Coolant System Activity	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.000375	0.000316	0.000209	0.000270	0.000219	0.000250	0.000256	0.000266	0.000277	0.000281	N/A	0.000140
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	N/A	0

Reactor Coolant System Activity	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum activity	0.000120	0.000131	0.000212	0.000155	0.000315	0.000198	0.000149	0.000196	0.000185	0.000231	0.000202	0.000165
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



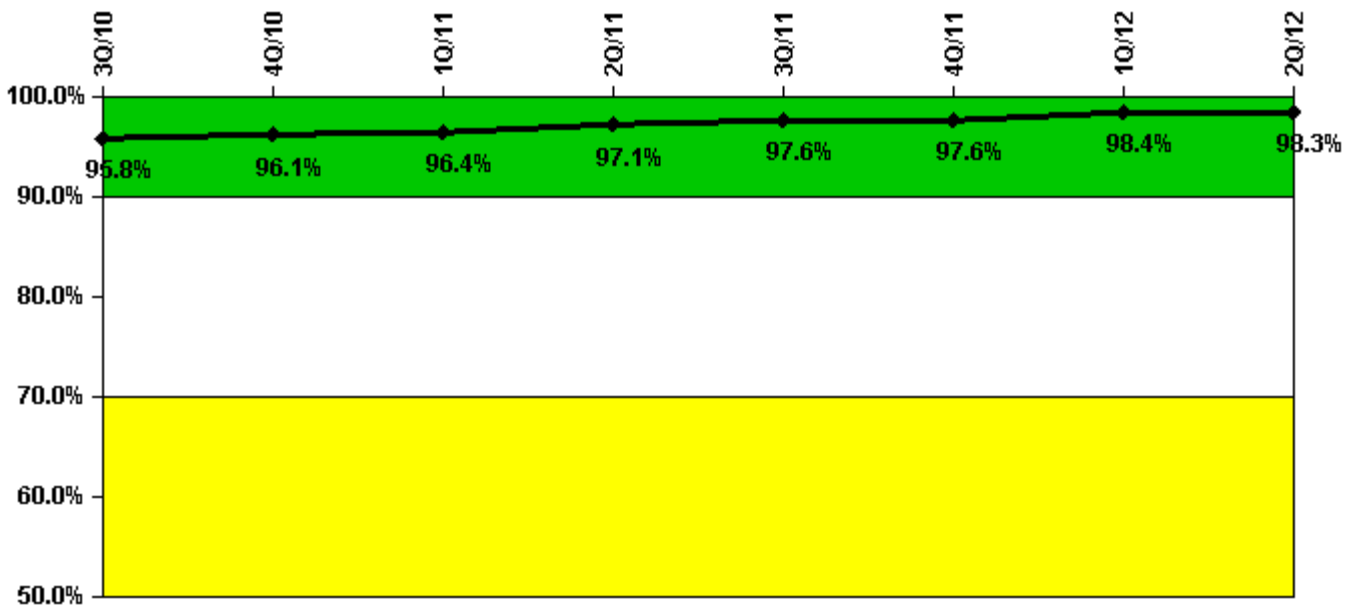
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum leakage	0.080	0.140	0.270	0.440	0.090	0.080	0.090	0.070	0.090	0.100	0.043	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.8	1.4	2.7	4.4	0.9	0.8	0.9	0.7	0.9	1.0	0.4	0.9
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	0.080	0.090	0.140	0.130	0.120	0.110	0.110	0.150	0.150	0.170	0.160	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	0.8	0.9	1.4	1.3	1.2	1.1	1.1	1.5	1.5	1.7	1.6	1.4

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

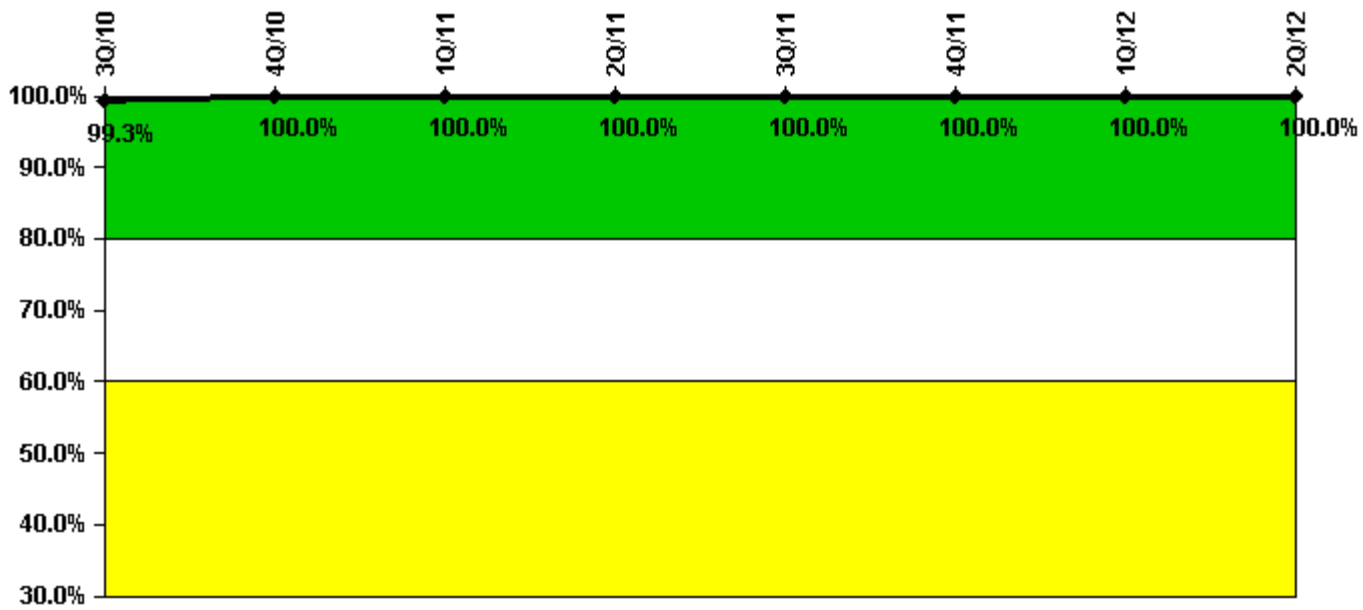
Notes

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



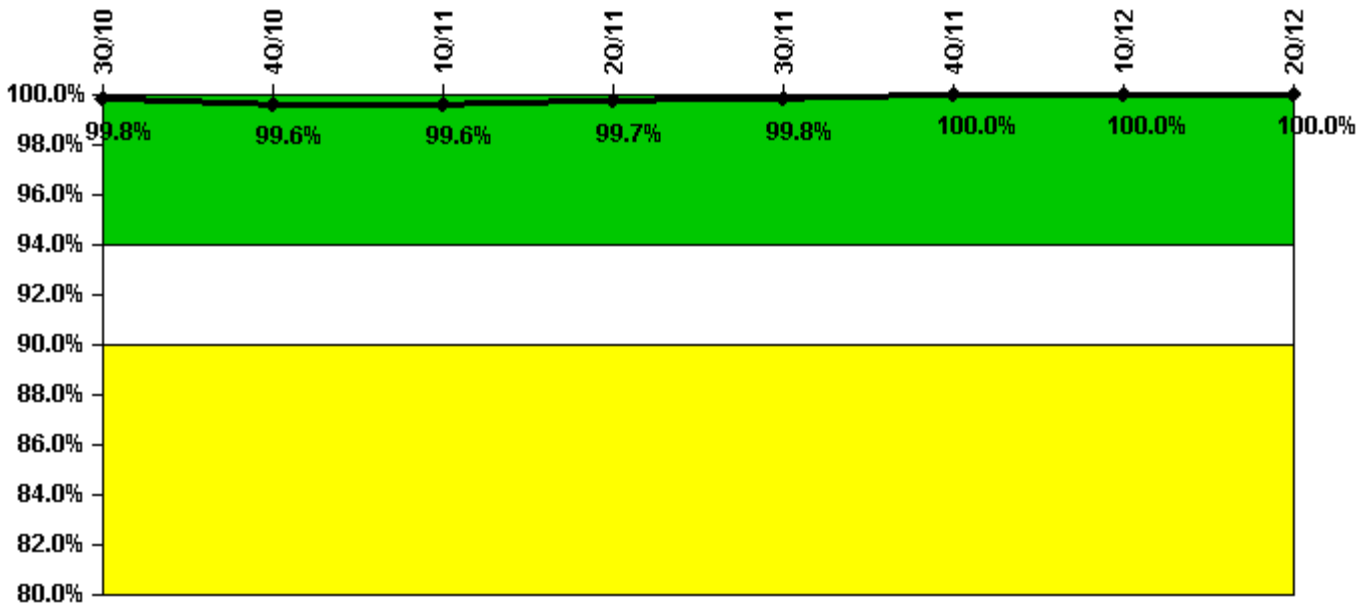
Thresholds: White < 80.0% Yellow < 60.0%

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%

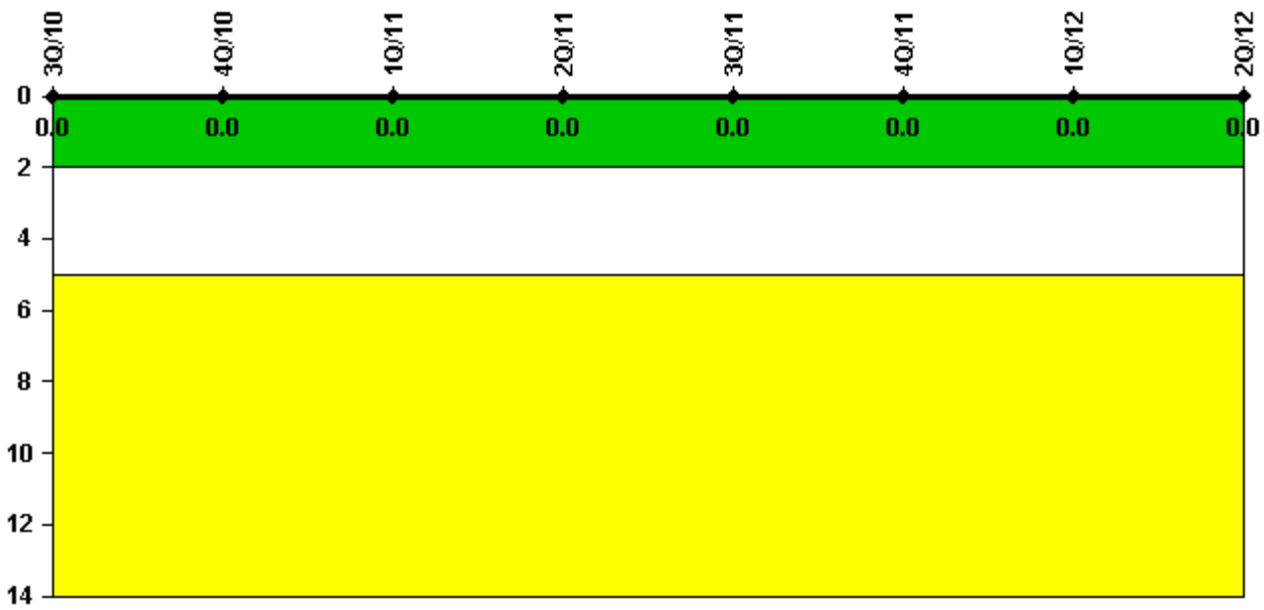
Notes

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



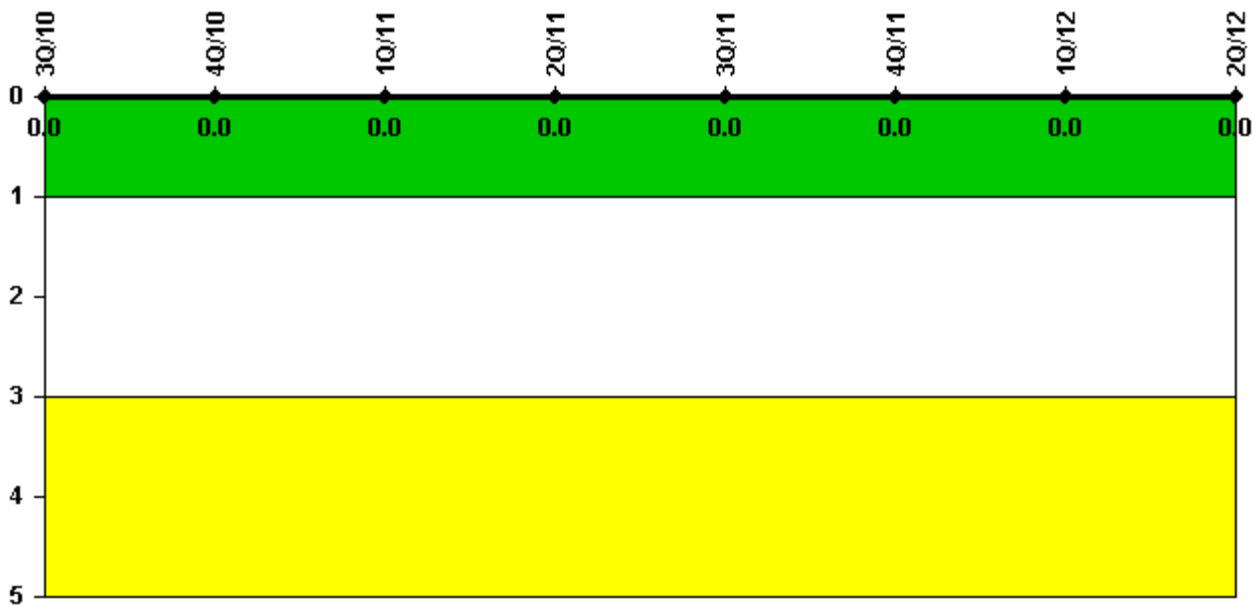
Thresholds: White > 2.0 Yellow > 5.0

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

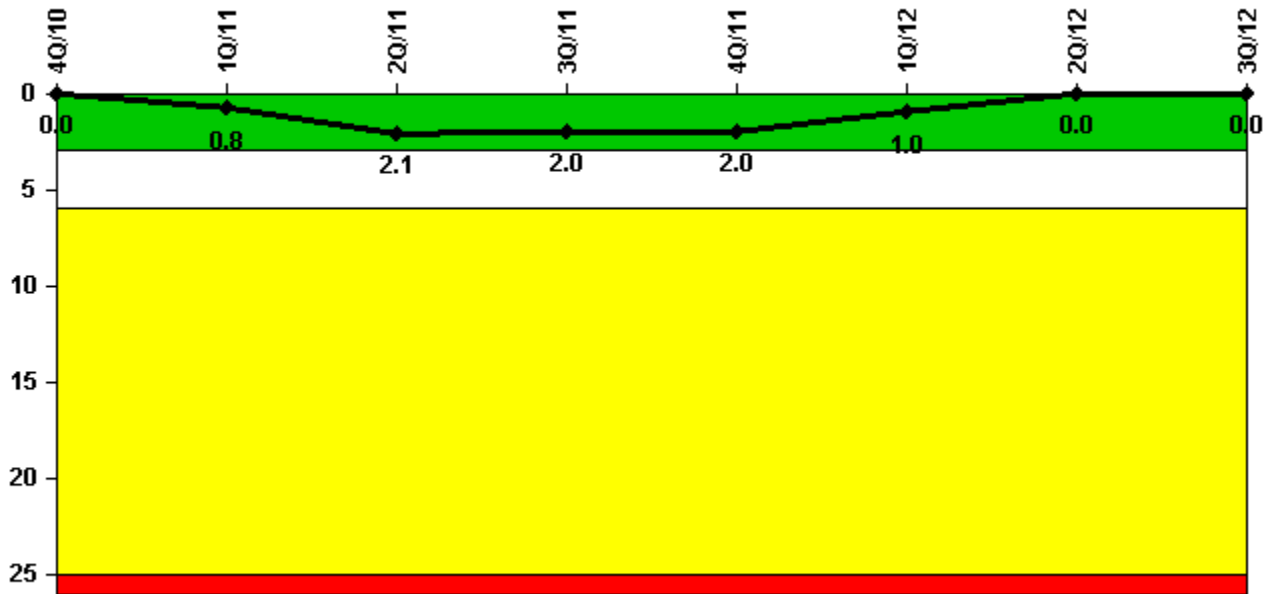
Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information 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 2

3Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



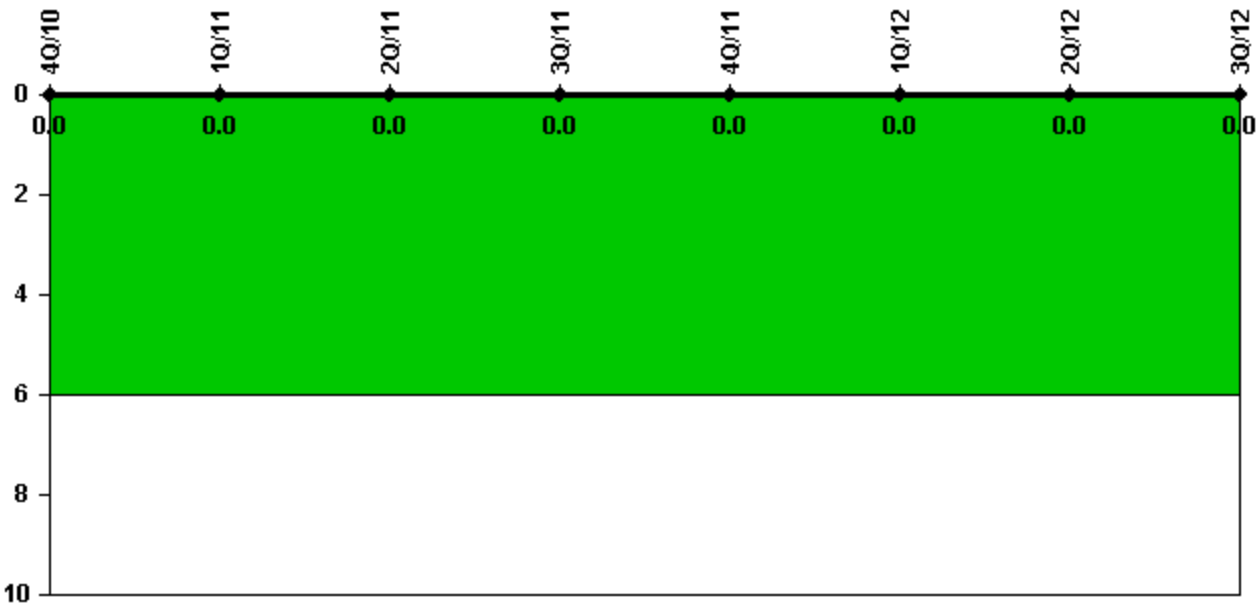
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned scrams	0	1.0	1.0	0	0	0	0	0
Critical hours	2209.0	1789.4	623.8	2208.0	2209.0	2183.0	2184.0	2208.0
Indicator value	0	0.8	2.1	2.0	2.0	1.0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



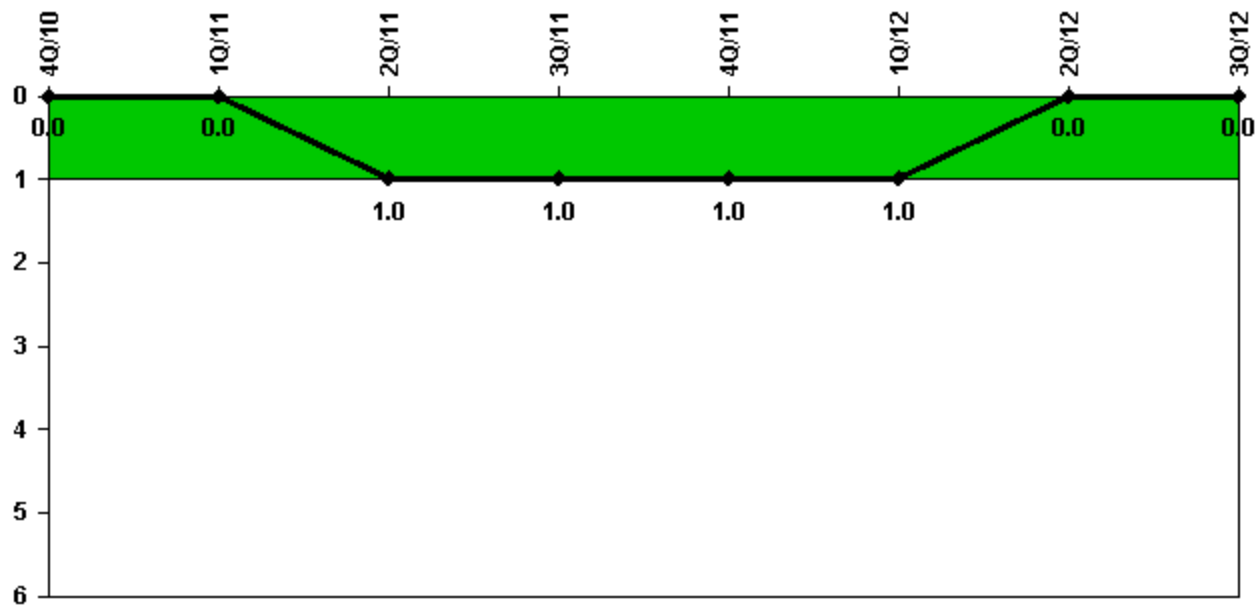
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/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	2209.0	1789.4	623.8	2208.0	2209.0	2183.0	2184.0	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



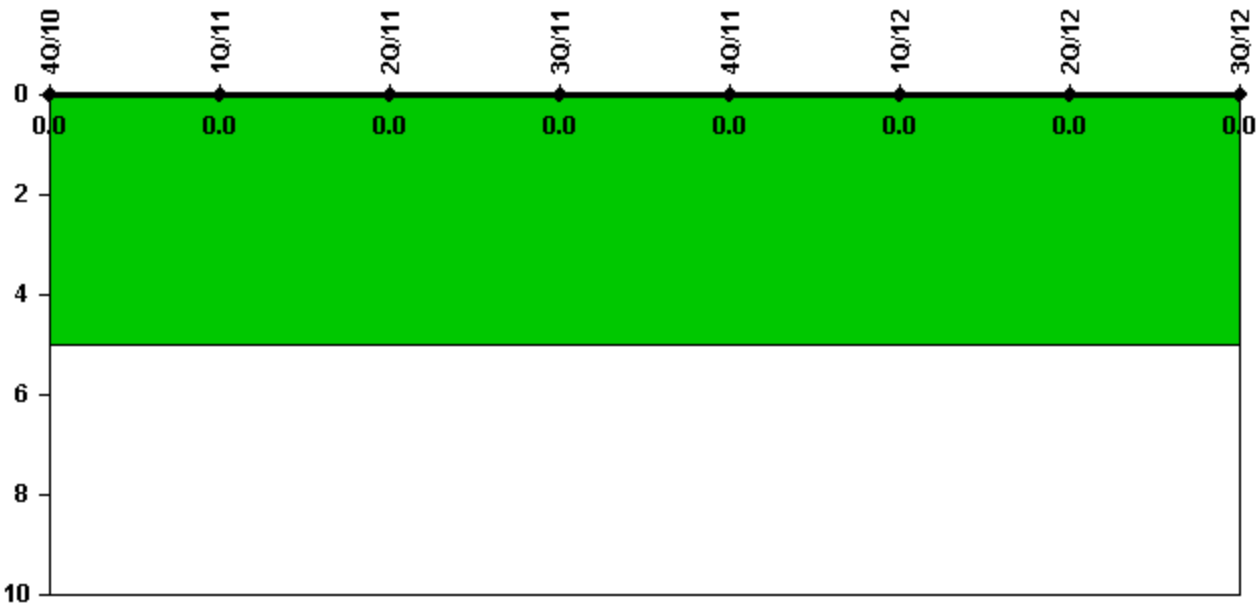
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/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	0.0	0.0	1.0	1.0	1.0	1.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



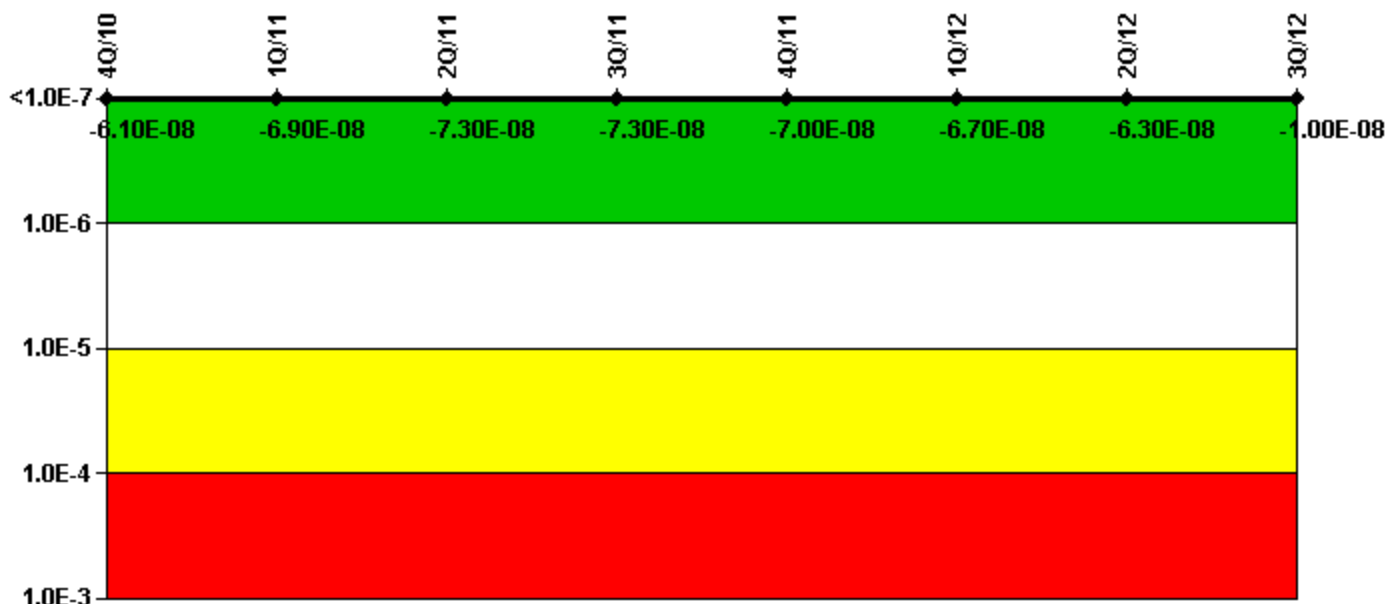
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/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

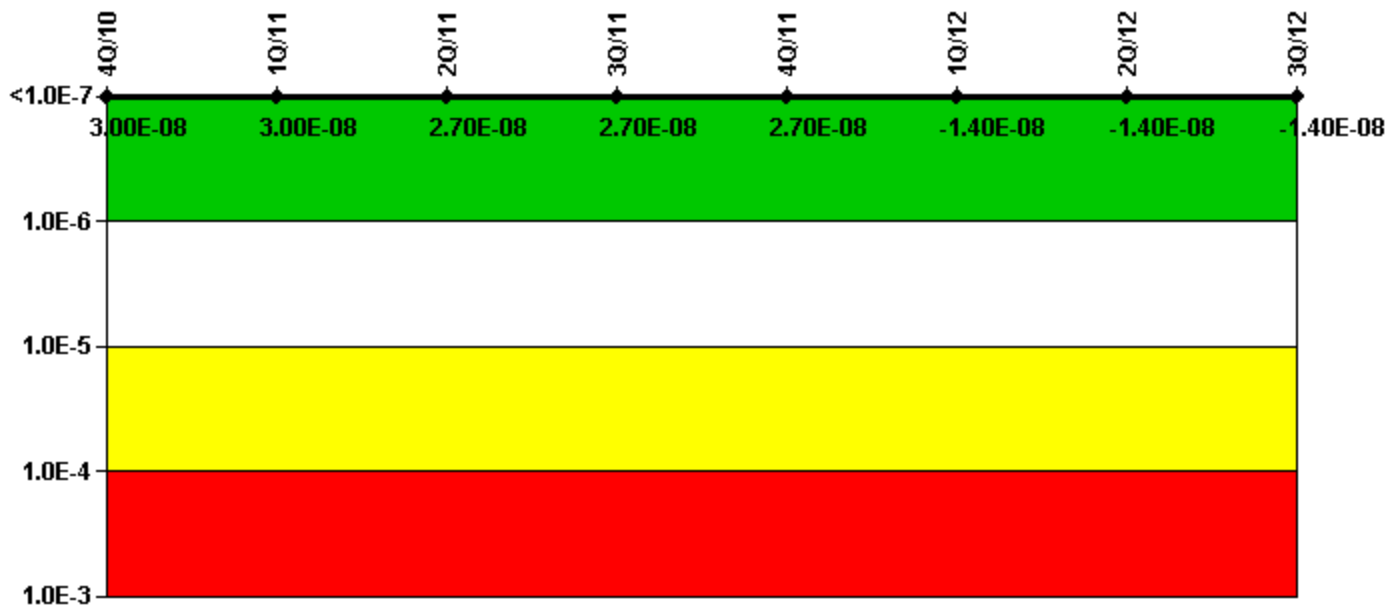
Notes

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 (Δ CDF)	1.01E-08	-2.16E-09	-2.05E-09	-2.69E-09	-2.99E-09	-3.00E-09	-3.00E-09	4.58E-08
URI (Δ CDF)	-7.12E-08	-6.72E-08	-7.05E-08	-7.00E-08	-6.73E-08	-6.36E-08	-6.03E-08	-5.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.10E-08	-6.90E-08	-7.30E-08	-7.30E-08	-7.00E-08	-6.70E-08	-6.30E-08	-1.00E-08

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



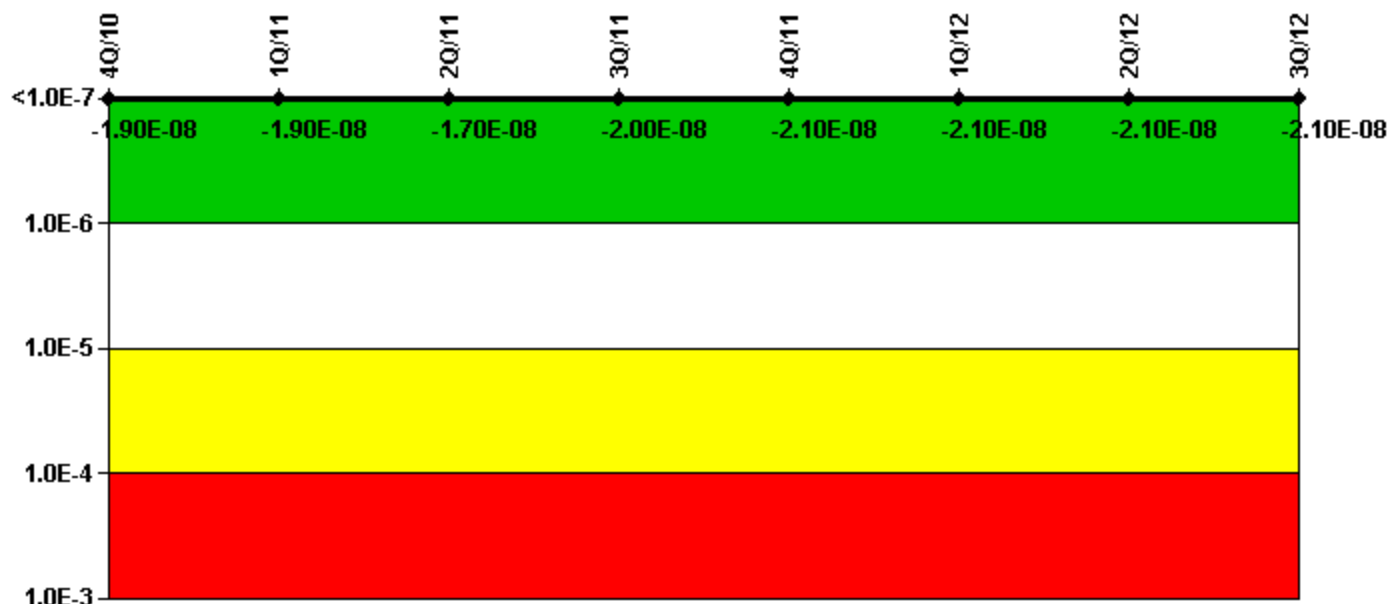
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	3.92E-09	4.47E-09	1.55E-09	1.68E-09	2.30E-09	1.95E-09	1.92E-09	1.32E-09
URI (Δ CDF)	2.58E-08	2.57E-08	2.56E-08	2.50E-08	2.47E-08	-1.58E-08	-1.55E-08	-1.51E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.00E-08	3.00E-08	2.70E-08	2.70E-08	2.70E-08	-1.40E-08	-1.40E-08	-1.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



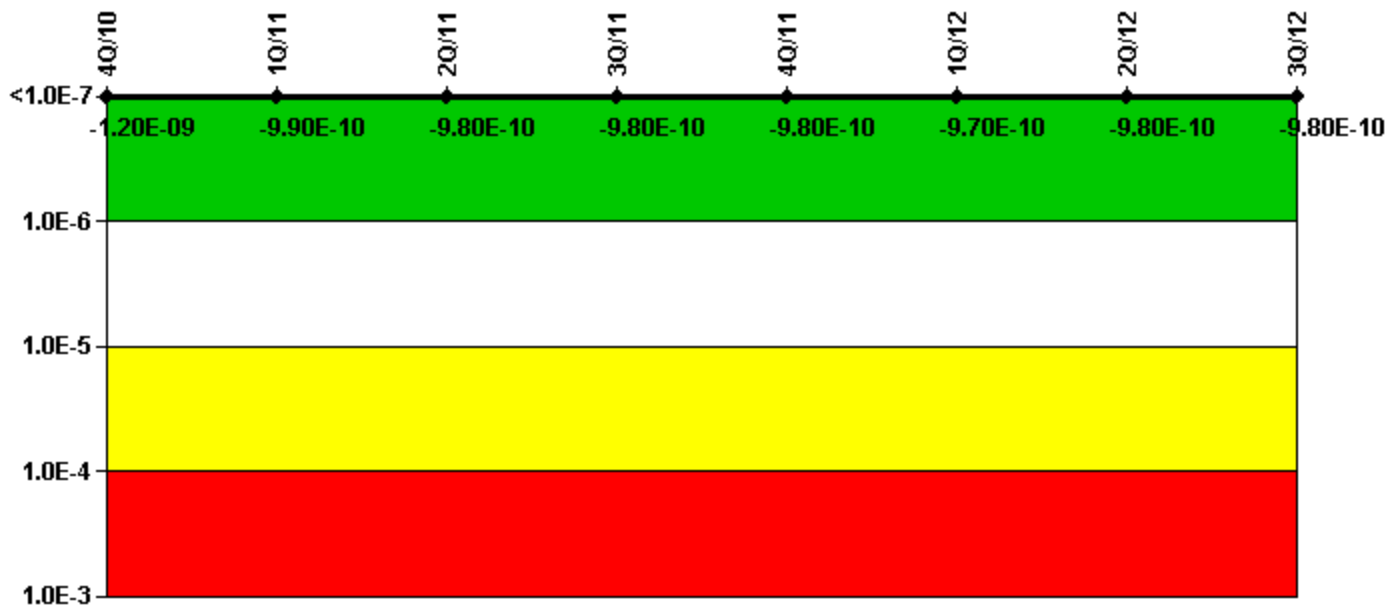
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	-3.56E-09	-2.36E-09	-1.49E-09	-5.50E-09	-5.77E-09	-5.77E-09	-5.72E-09	-5.69E-09
URI (Δ CDF)	-1.59E-08	-1.65E-08	-1.54E-08	-1.49E-08	-1.49E-08	-1.54E-08	-1.49E-08	-1.49E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-08	-1.90E-08	-1.70E-08	-2.00E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



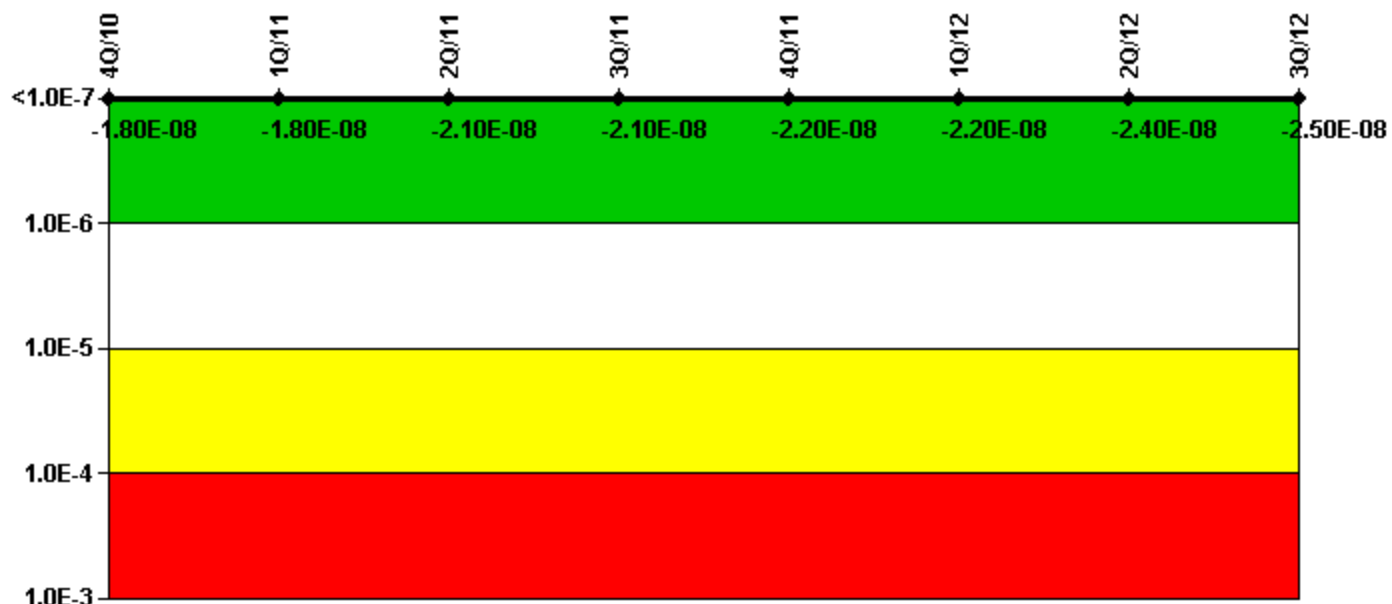
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	-1.79E-10	9.76E-11	1.13E-10	1.25E-10	1.30E-10	1.53E-10	1.50E-10	1.46E-10
URI (Δ CDF)	-1.06E-09	-1.08E-09	-1.09E-09	-1.10E-09	-1.11E-09	-1.13E-09	-1.13E-09	-1.13E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-9.90E-10	-9.80E-10	-9.80E-10	-9.80E-10	-9.70E-10	-9.80E-10	-9.80E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



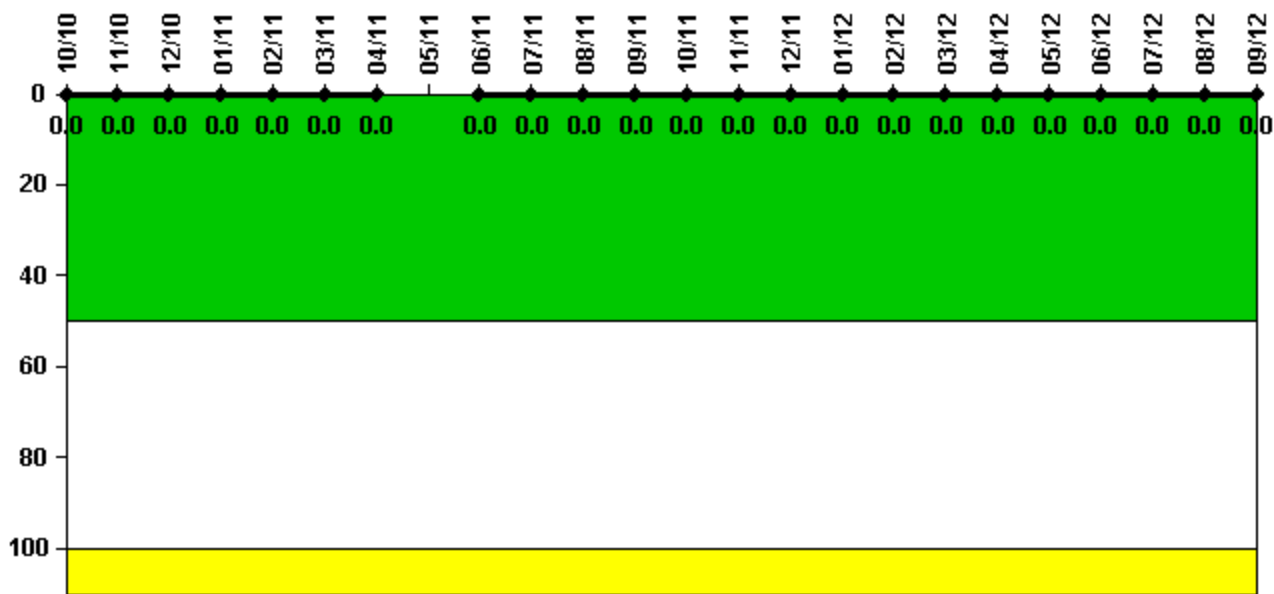
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	3.57E-09	4.37E-09	2.11E-09	1.38E-09	1.21E-09	1.01E-09	7.76E-13	-1.53E-09
URI (Δ CDF)	-2.18E-08	-2.23E-08	-2.28E-08	-2.27E-08	-2.31E-08	-2.35E-08	-2.37E-08	-2.39E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-1.80E-08	-2.10E-08	-2.10E-08	-2.20E-08	-2.20E-08	-2.40E-08	-2.50E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

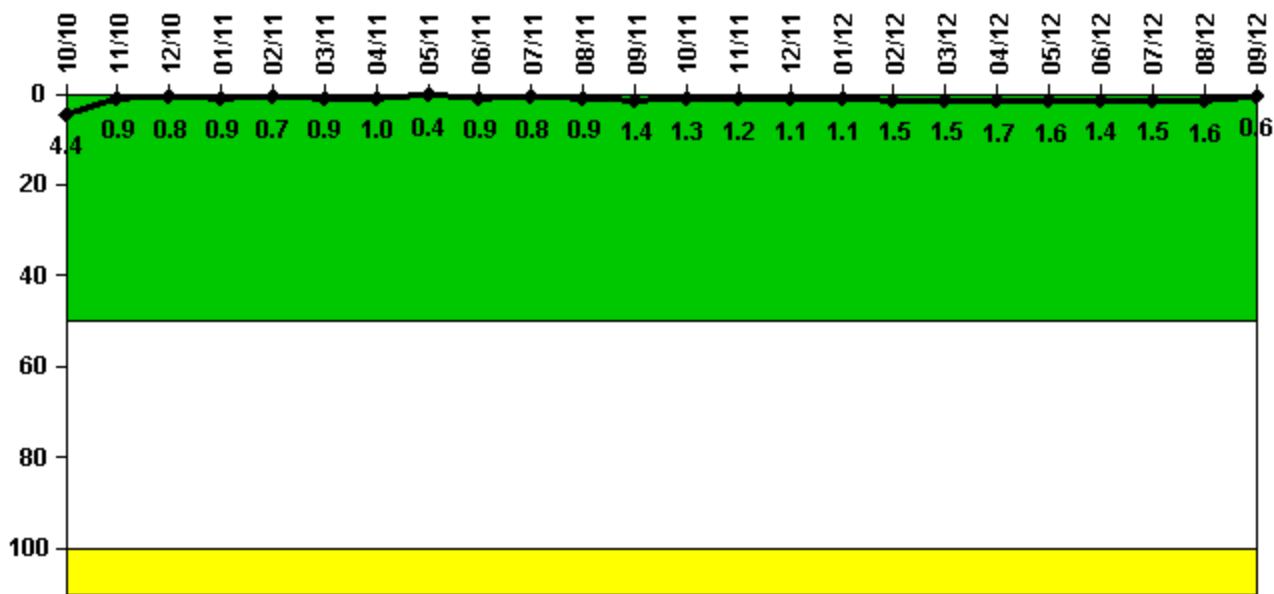
Notes

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	0.000270	0.000219	0.000250	0.000256	0.000266	0.000277	0.000281	N/A	0.000140	0.000120	0.000131	0.000212
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	N/A	0	0	0	0

Reactor Coolant System Activity	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum activity	0.000155	0.000315	0.000198	0.000149	0.000196	0.000185	0.000231	0.000202	0.000165	0.000174	0.000202	0.000224
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



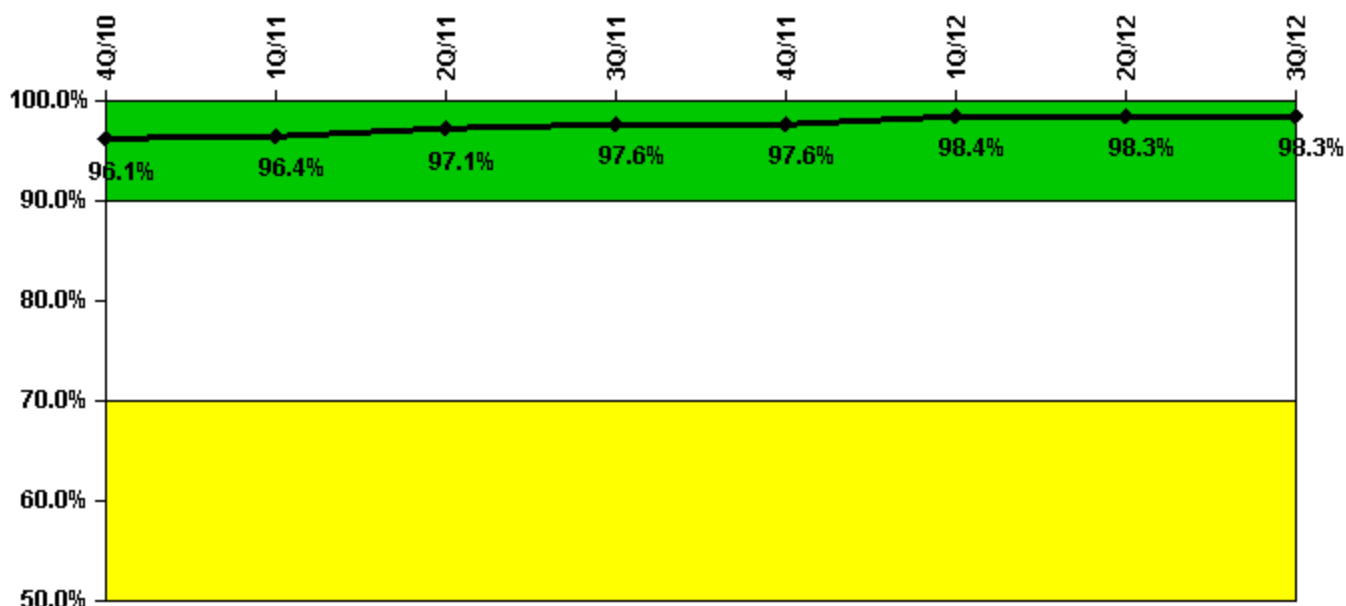
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum leakage	0.440	0.090	0.080	0.090	0.070	0.090	0.100	0.043	0.090	0.080	0.090	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	4.4	0.9	0.8	0.9	0.7	0.9	1.0	0.4	0.9	0.8	0.9	1.4
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	0.130	0.120	0.110	0.110	0.150	0.150	0.170	0.160	0.140	0.150	0.160	0.060
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.2	1.1	1.1	1.5	1.5	1.7	1.6	1.4	1.5	1.6	0.6

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

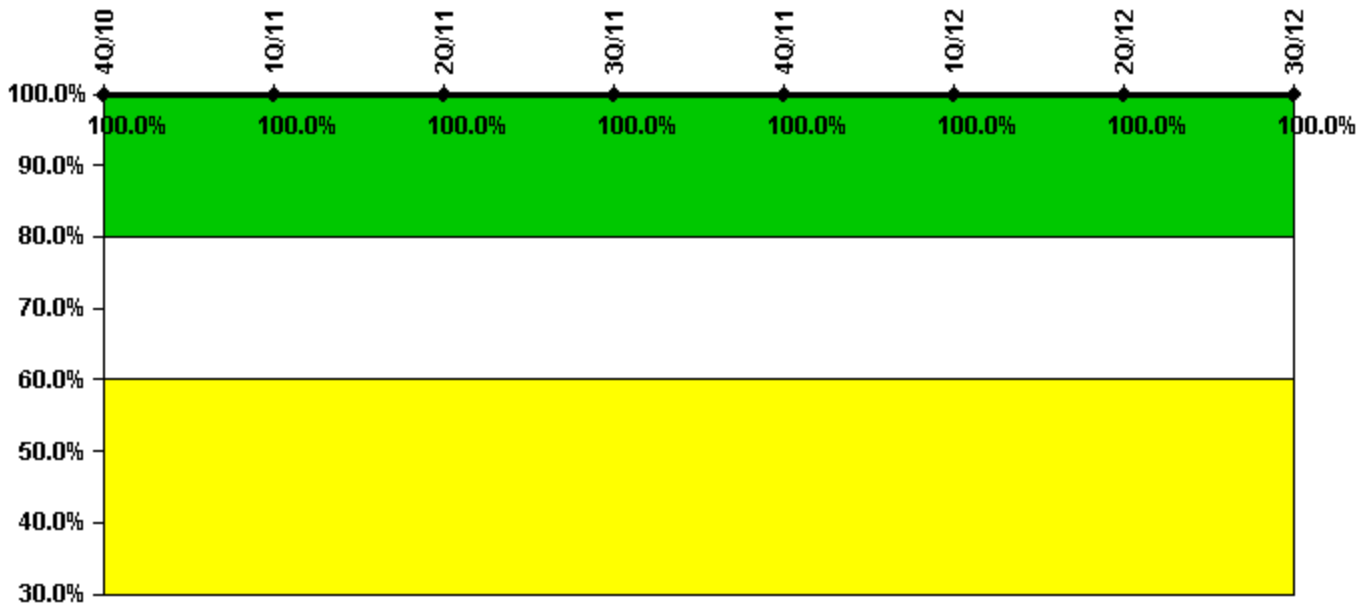
Notes

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



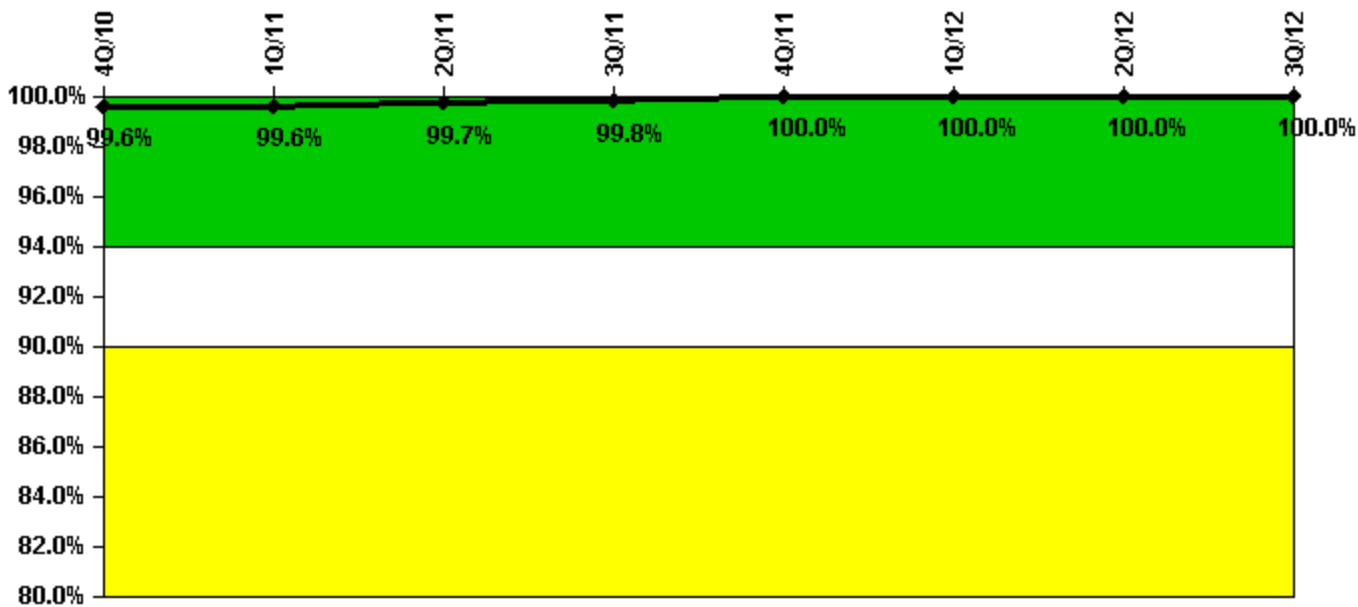
Thresholds: White < 80.0% Yellow < 60.0%

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%

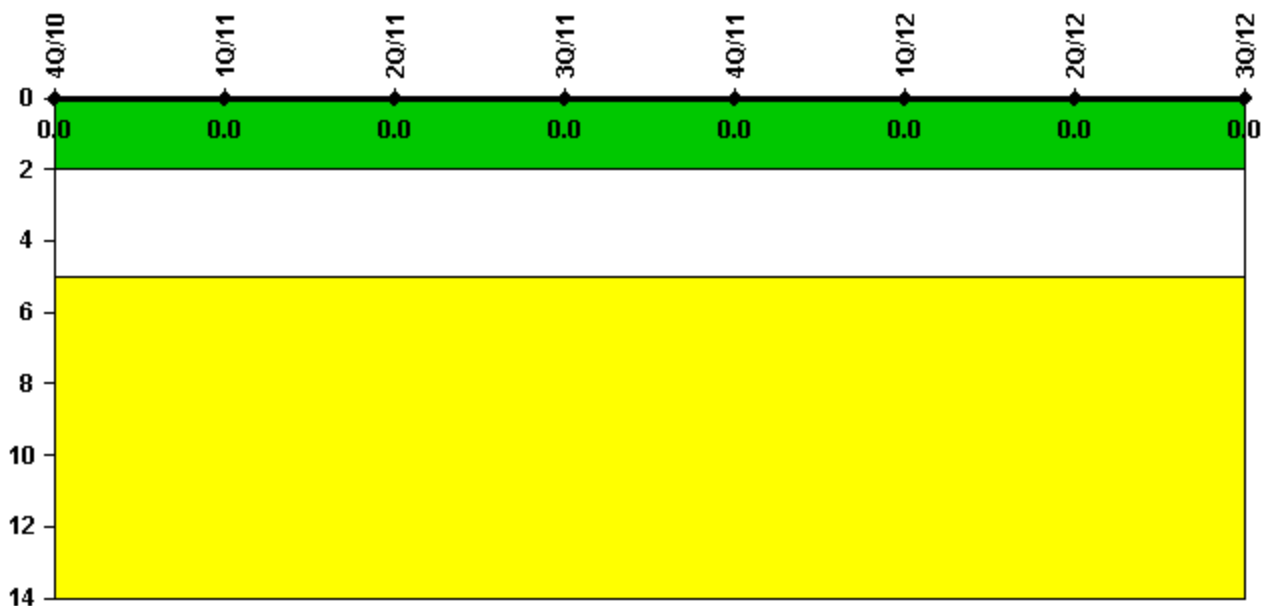
Notes

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



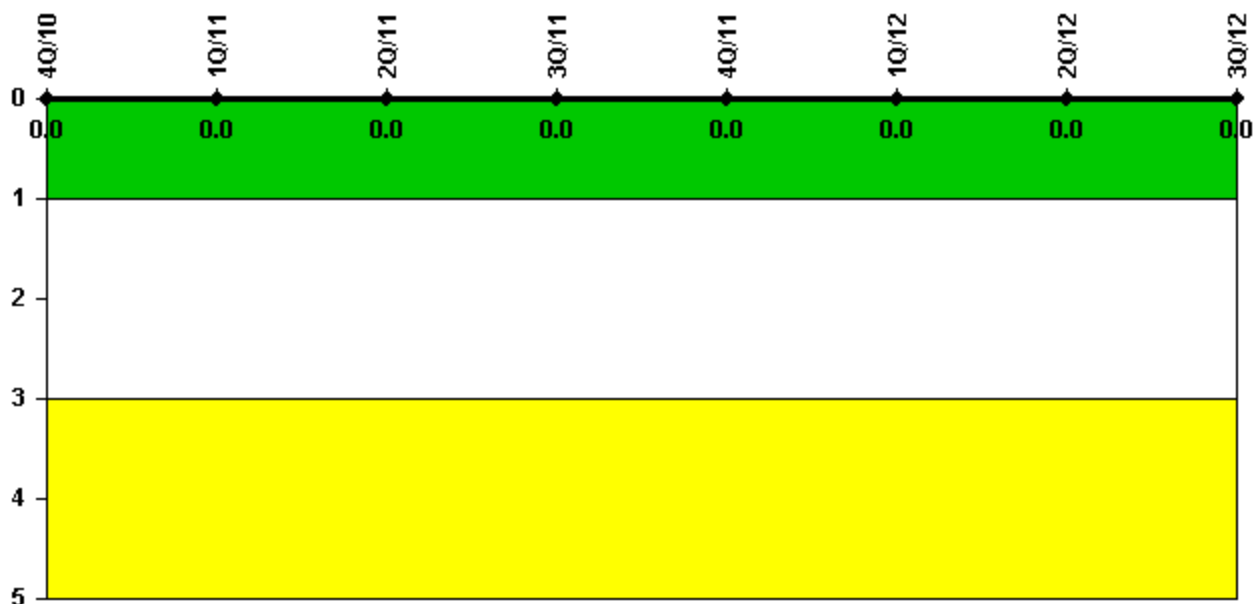
Thresholds: White > 2.0 Yellow > 5.0

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](#)

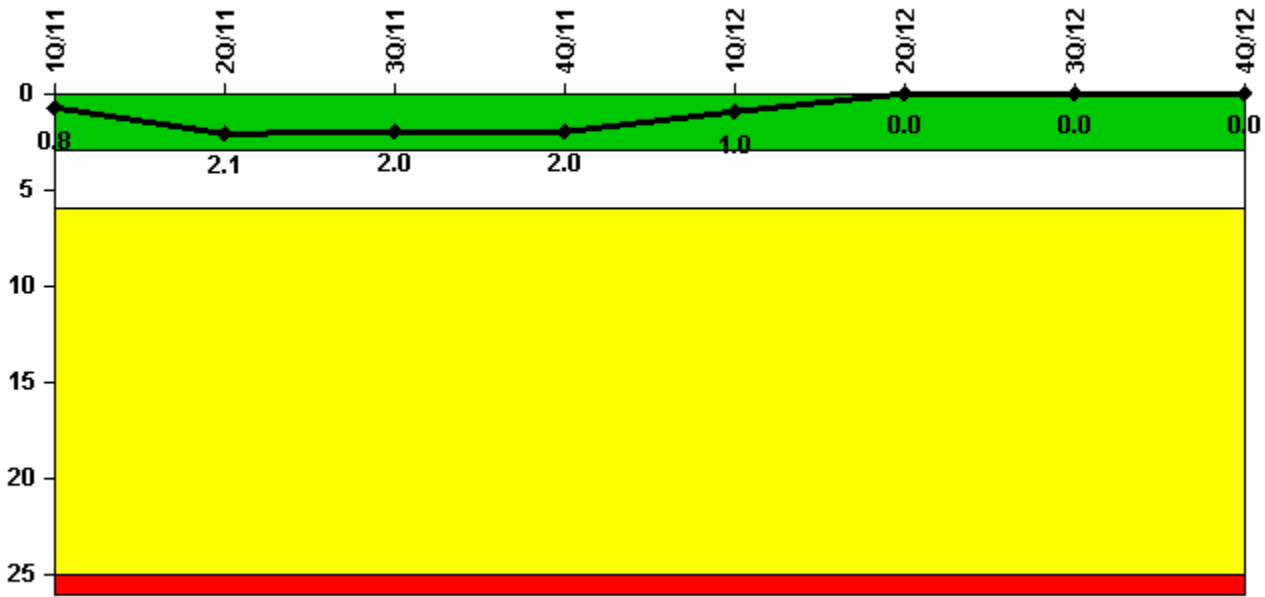
Last Modified: October 24, 2012

Surry 2

4Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



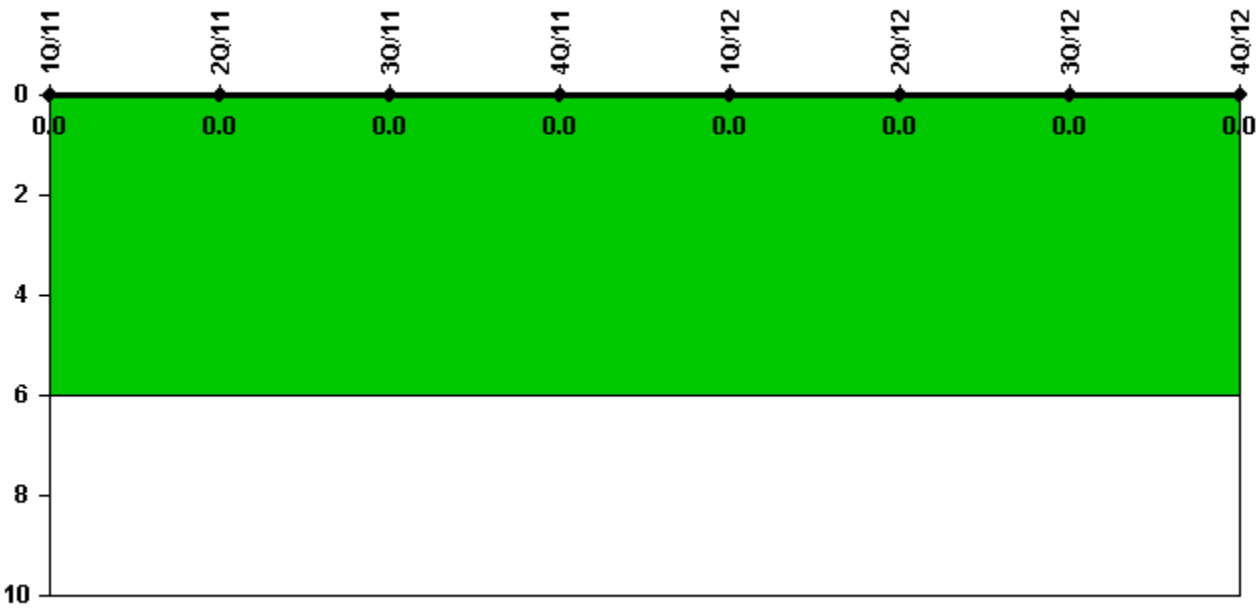
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned scrams	1.0	1.0	0	0	0	0	0	0
Critical hours	1789.4	623.8	2208.0	2209.0	2183.0	2184.0	2208.0	1452.1
Indicator value	0.8	2.1	2.0	2.0	1.0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



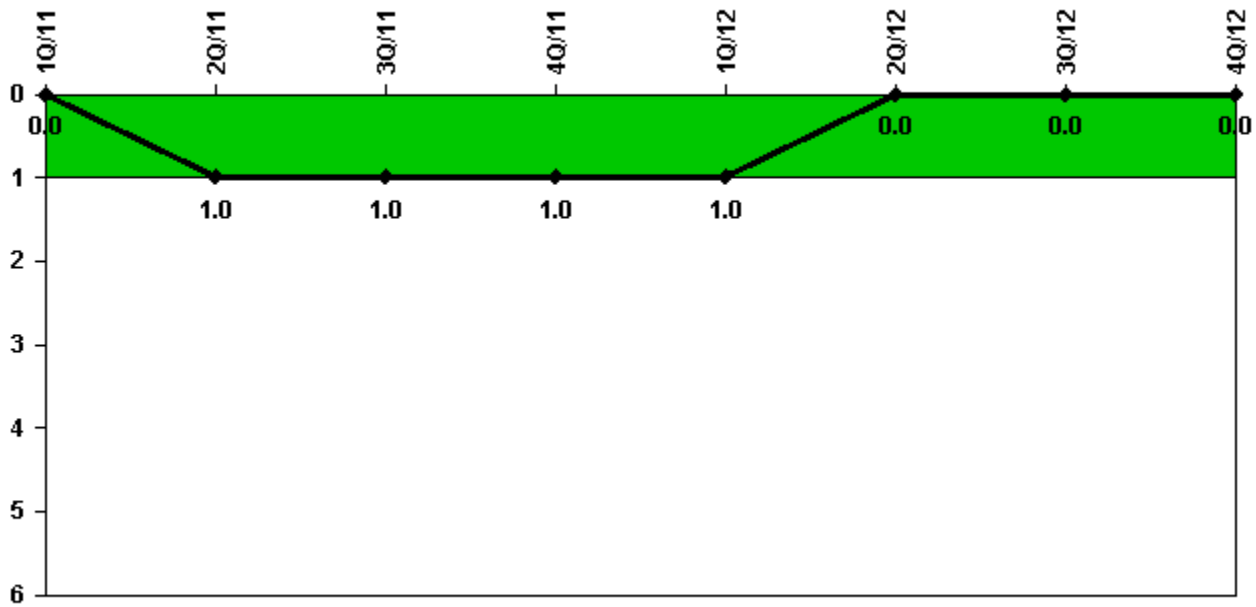
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/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	0
Critical hours	1789.4	623.8	2208.0	2209.0	2183.0	2184.0	2208.0	1452.1
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



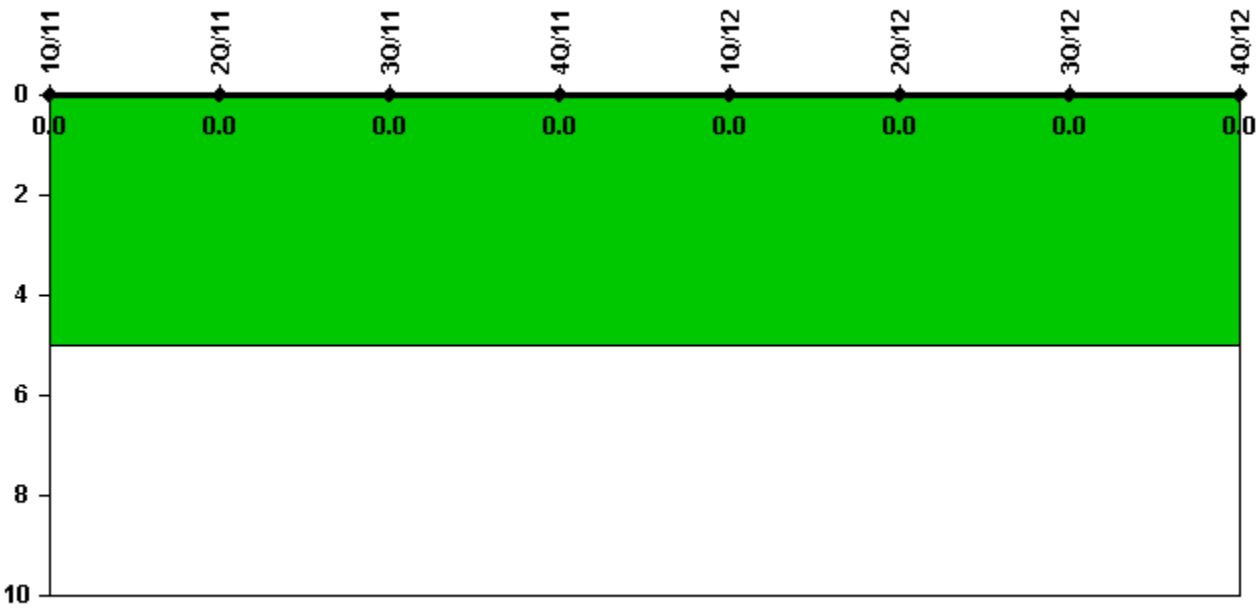
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/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	0.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



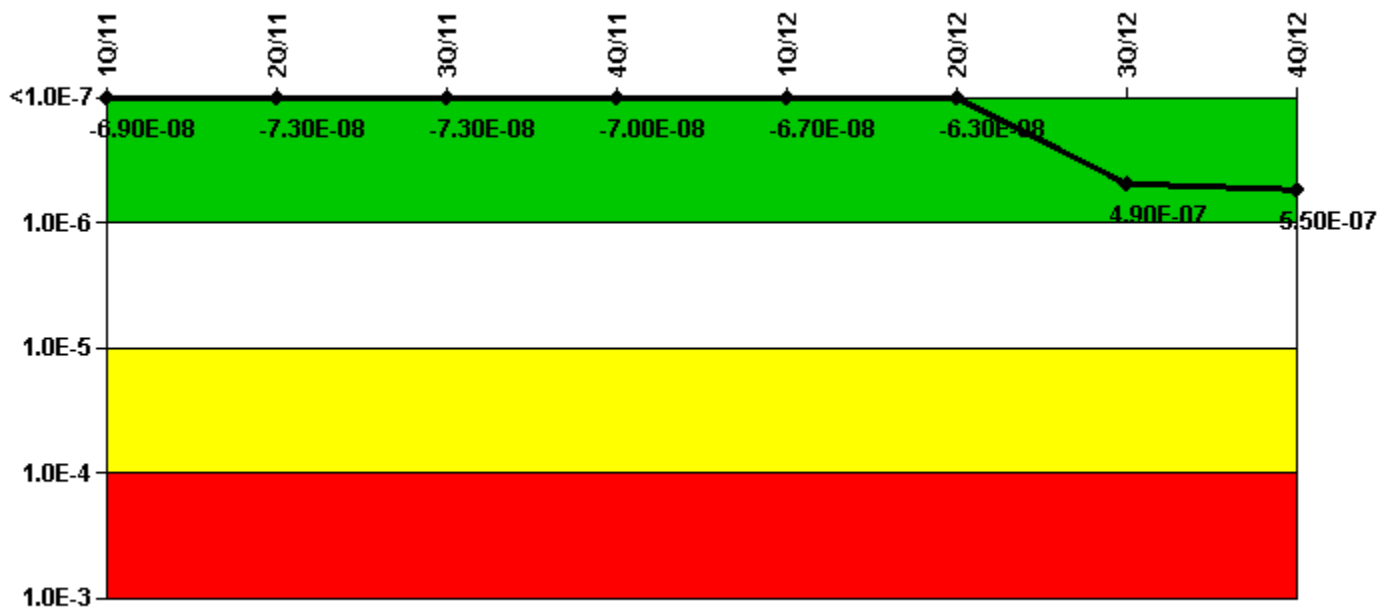
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/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 (ΔCDF)	-2.16E-09	-2.05E-09	-2.69E-09	-2.99E-09	-3.00E-09	-3.00E-09	4.58E-08	2.85E-08
URI (ΔCDF)	-6.72E-08	-7.05E-08	-7.00E-08	-6.73E-08	-6.36E-08	-6.03E-08	4.44E-07	5.21E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.90E-08	-7.30E-08	-7.30E-08	-7.00E-08	-6.70E-08	-6.30E-08	4.90E-07	5.50E-07

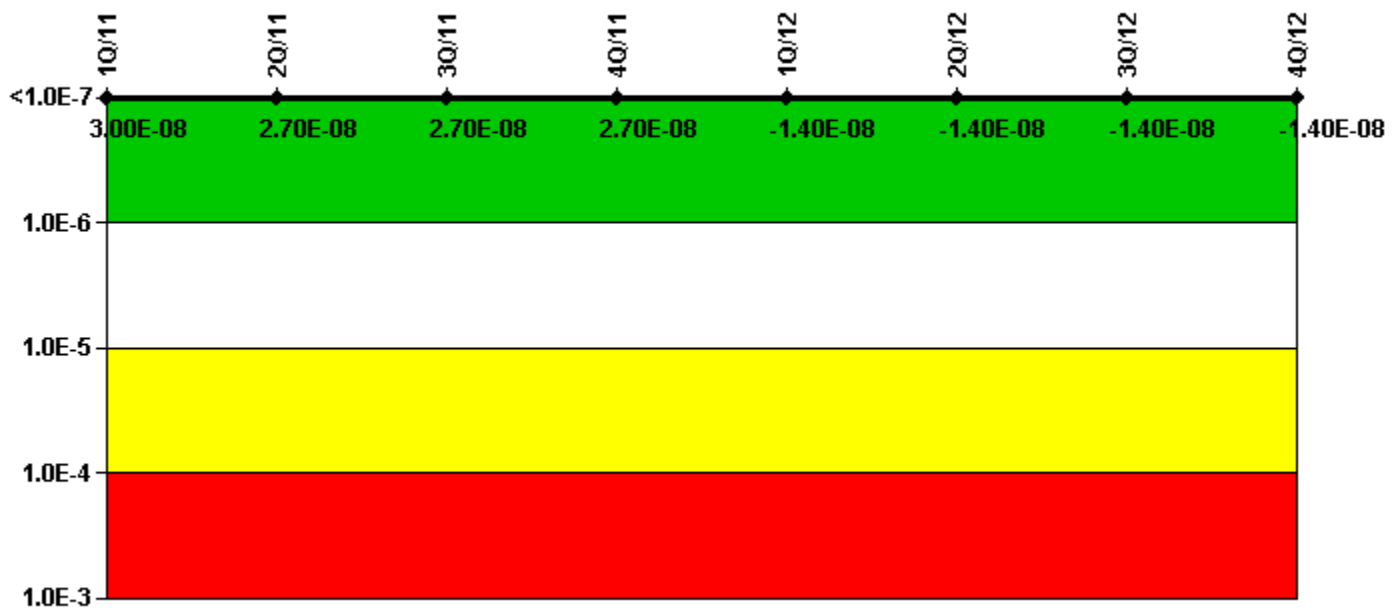
Licensee Comments:

4Q/12: Risk Cap Invoked. An evaluation for an August run failure of #2 emergency diesel was completed. Therefore historical data for August 2012 was changed with no change in color.

3Q/12: Risk Cap Invoked.

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



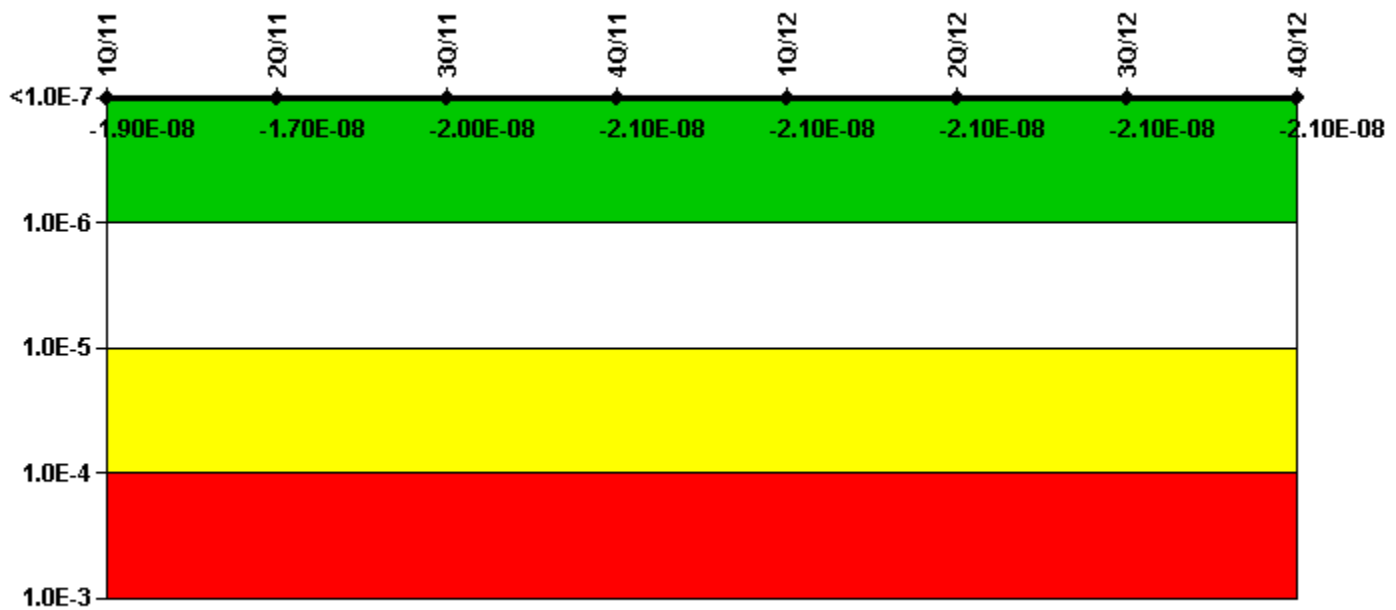
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	4.47E-09	1.55E-09	1.68E-09	2.30E-09	1.95E-09	1.92E-09	1.32E-09	1.31E-09
URI (Δ CDF)	2.57E-08	2.56E-08	2.50E-08	2.47E-08	-1.58E-08	-1.55E-08	-1.51E-08	-1.52E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.00E-08	2.70E-08	2.70E-08	2.70E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



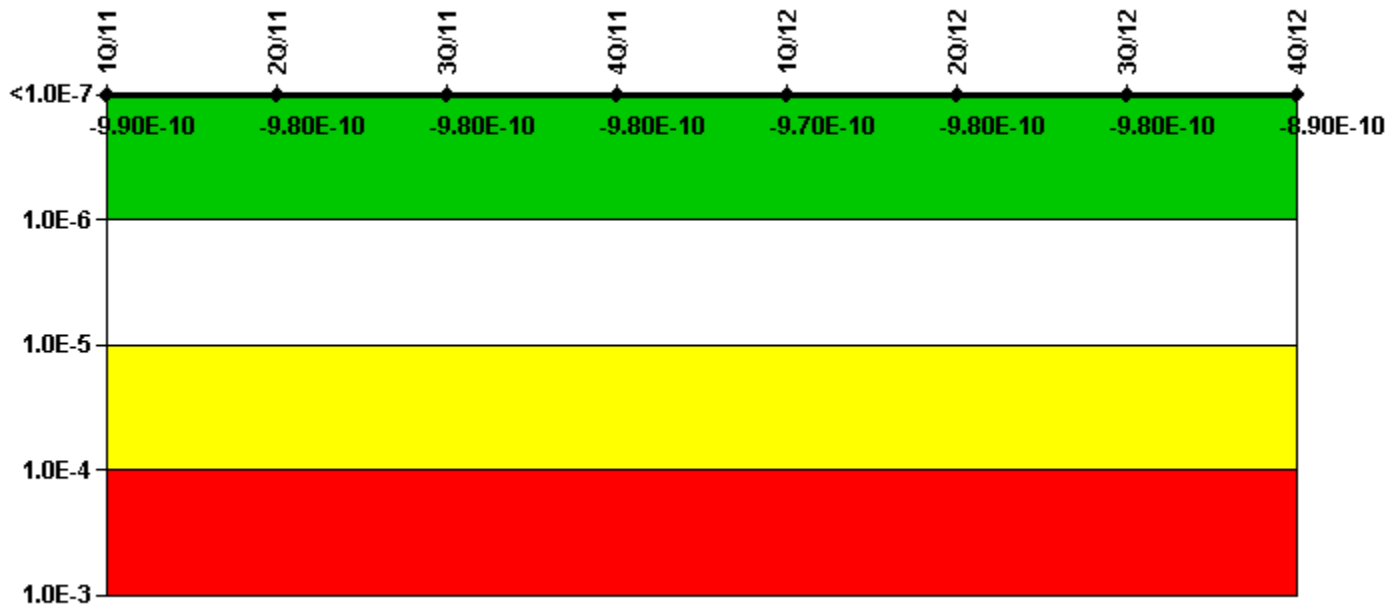
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	-2.36E-09	-1.49E-09	-5.50E-09	-5.77E-09	-5.77E-09	-5.72E-09	-5.69E-09	-5.68E-09
URI (Δ CDF)	-1.65E-08	-1.54E-08	-1.49E-08	-1.49E-08	-1.54E-08	-1.49E-08	-1.49E-08	-1.54E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-08	-1.70E-08	-2.00E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



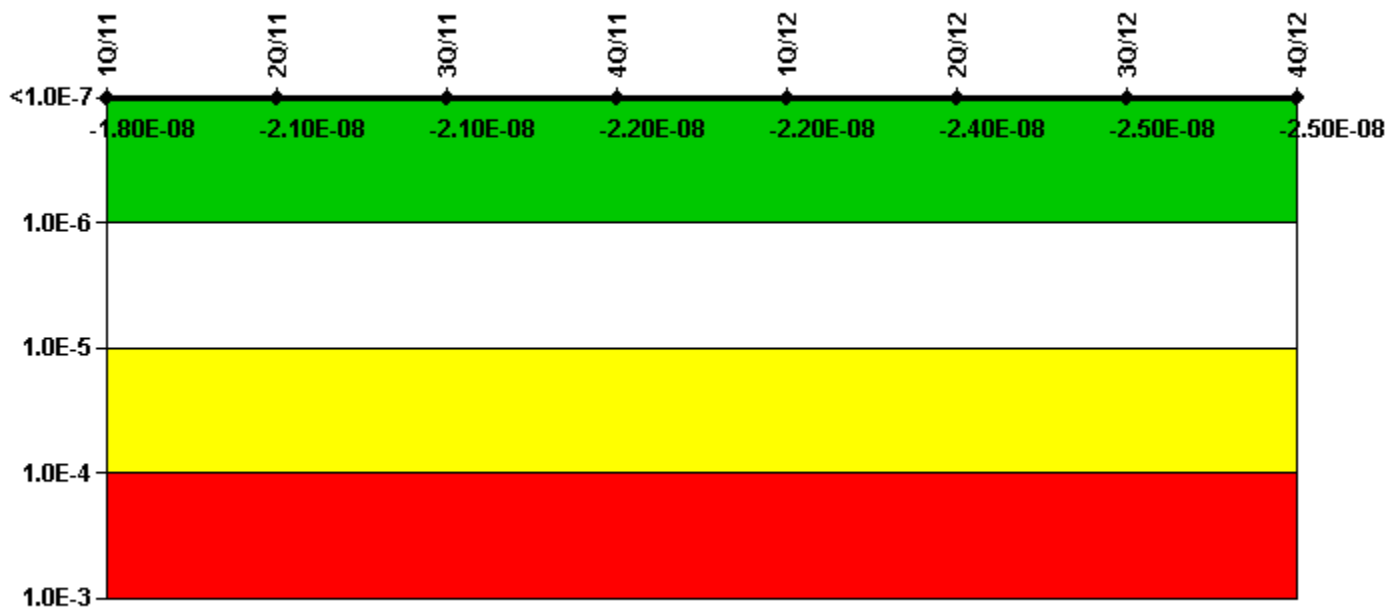
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	9.76E-11	1.13E-10	1.25E-10	1.30E-10	1.53E-10	1.50E-10	1.46E-10	1.47E-10
URI (Δ CDF)	-1.08E-09	-1.09E-09	-1.10E-09	-1.11E-09	-1.13E-09	-1.13E-09	-1.13E-09	-1.03E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.90E-10	-9.80E-10	-9.80E-10	-9.80E-10	-9.70E-10	-9.80E-10	-9.80E-10	-8.90E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



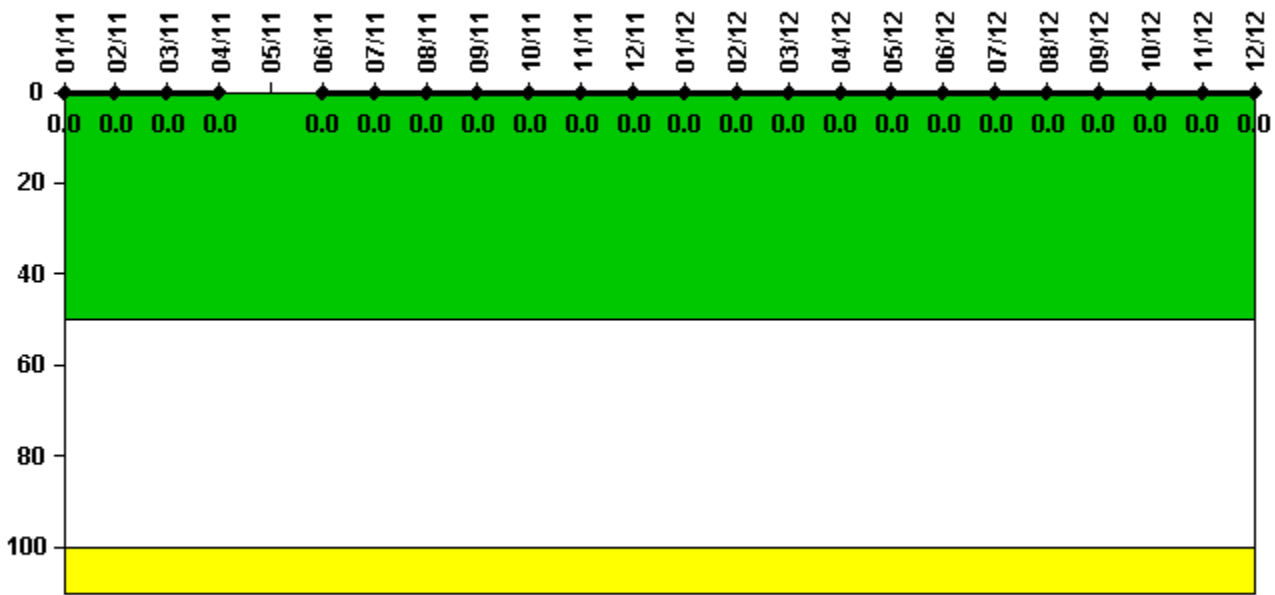
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	4.37E-09	2.11E-09	1.38E-09	1.21E-09	1.01E-09	7.76E-13	-1.53E-09	-1.34E-09
URI (Δ CDF)	-2.23E-08	-2.28E-08	-2.27E-08	-2.31E-08	-2.35E-08	-2.37E-08	-2.39E-08	-2.34E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-2.10E-08	-2.10E-08	-2.20E-08	-2.20E-08	-2.40E-08	-2.50E-08	-2.50E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

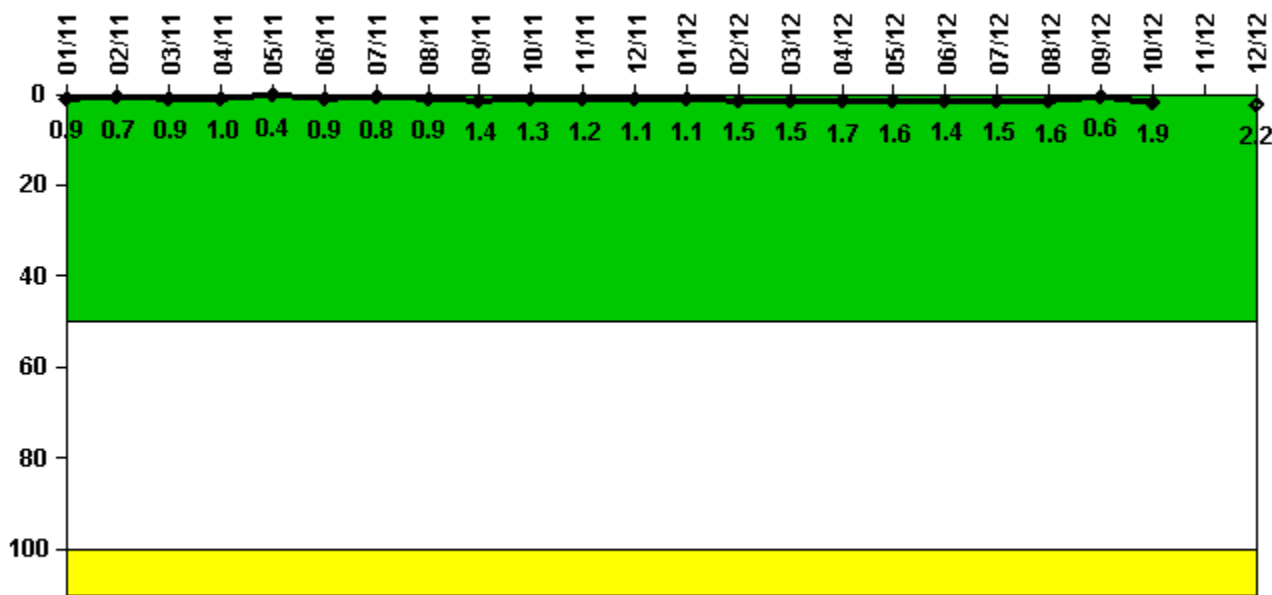
Notes

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	0.000256	0.000266	0.000277	0.000281	N/A	0.000140	0.000120	0.000131	0.000212	0.000155	0.000315	0.000198
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	N/A	0	0	0	0	0	0	0

Reactor Coolant System Activity	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	0.000149	0.000196	0.000185	0.000231	0.000202	0.000165	0.000174	0.000202	0.000224	0.000190	0.000180	0.000132
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



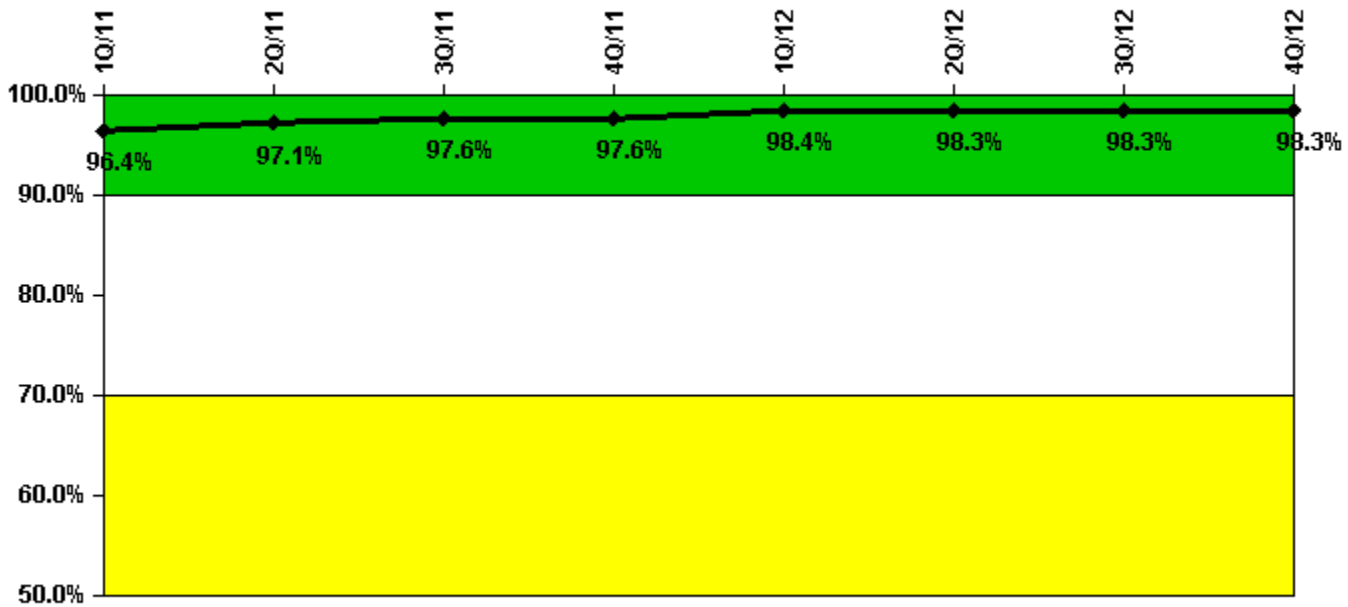
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum leakage	0.090	0.070	0.090	0.100	0.043	0.090	0.080	0.090	0.140	0.130	0.120	0.110
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.9	0.7	0.9	1.0	0.4	0.9	0.8	0.9	1.4	1.3	1.2	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	0.150	0.150	0.170	0.160	0.140	0.150	0.160	0.060	0.190	N/A	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	1.1	1.5	1.5	1.7	1.6	1.4	1.5	1.6	0.6	1.9	N/A	2.2

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

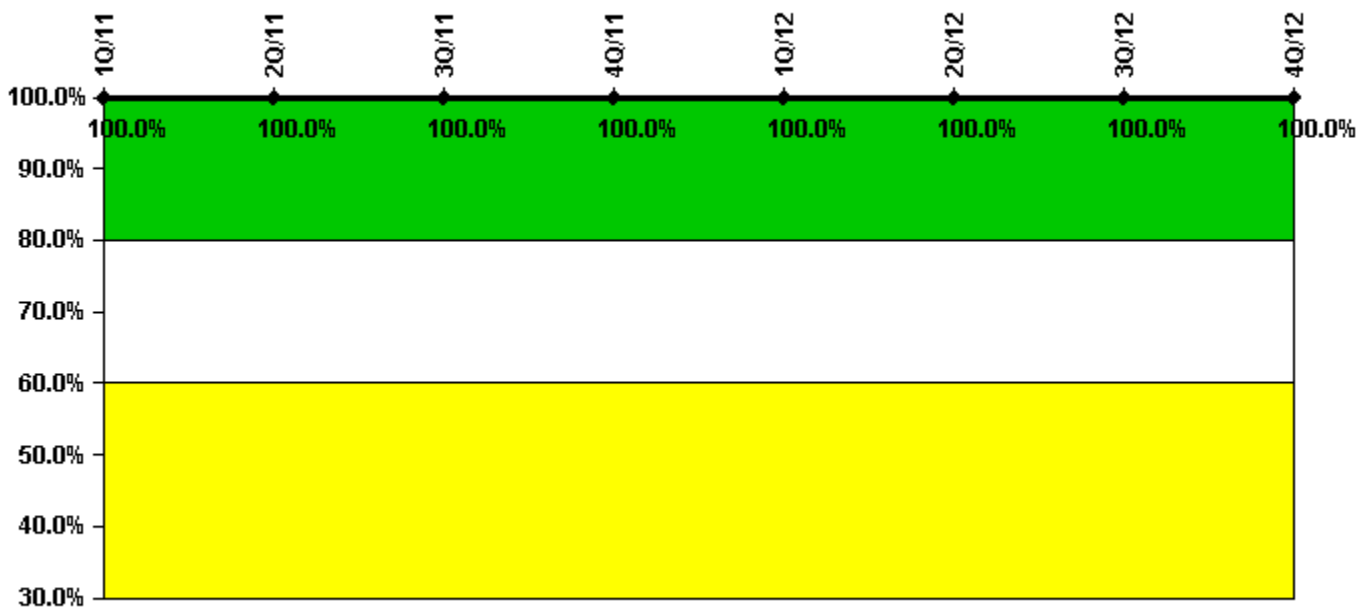
Notes

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



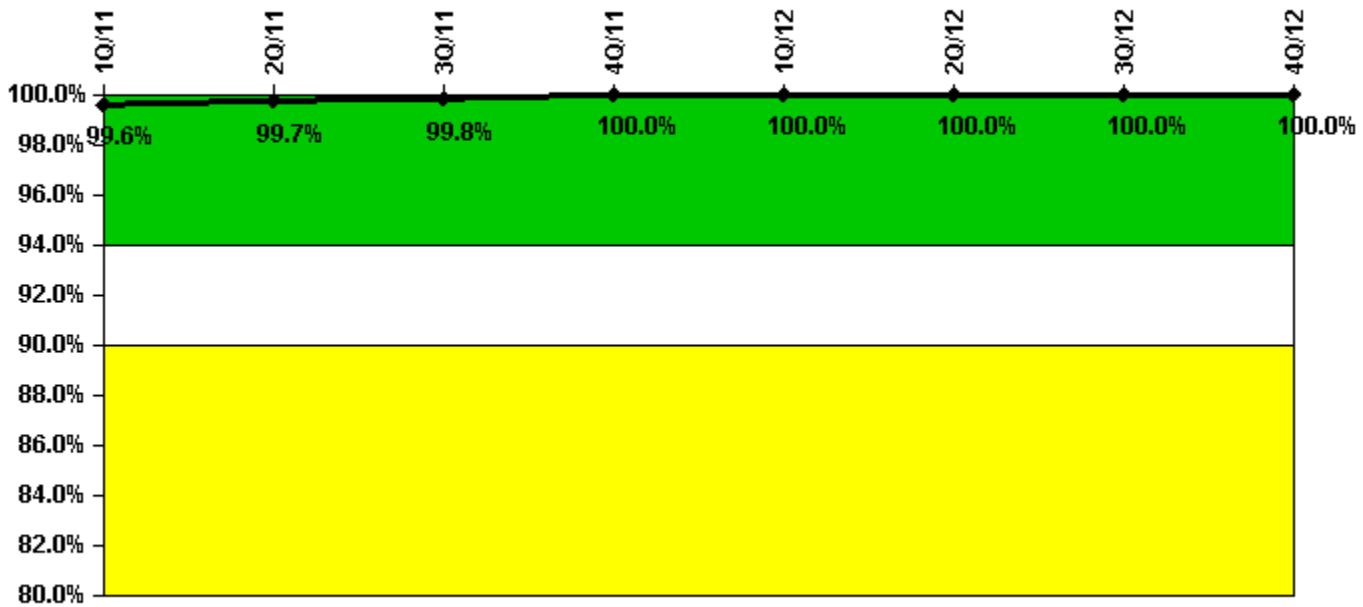
Thresholds: White < 80.0% Yellow < 60.0%

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%

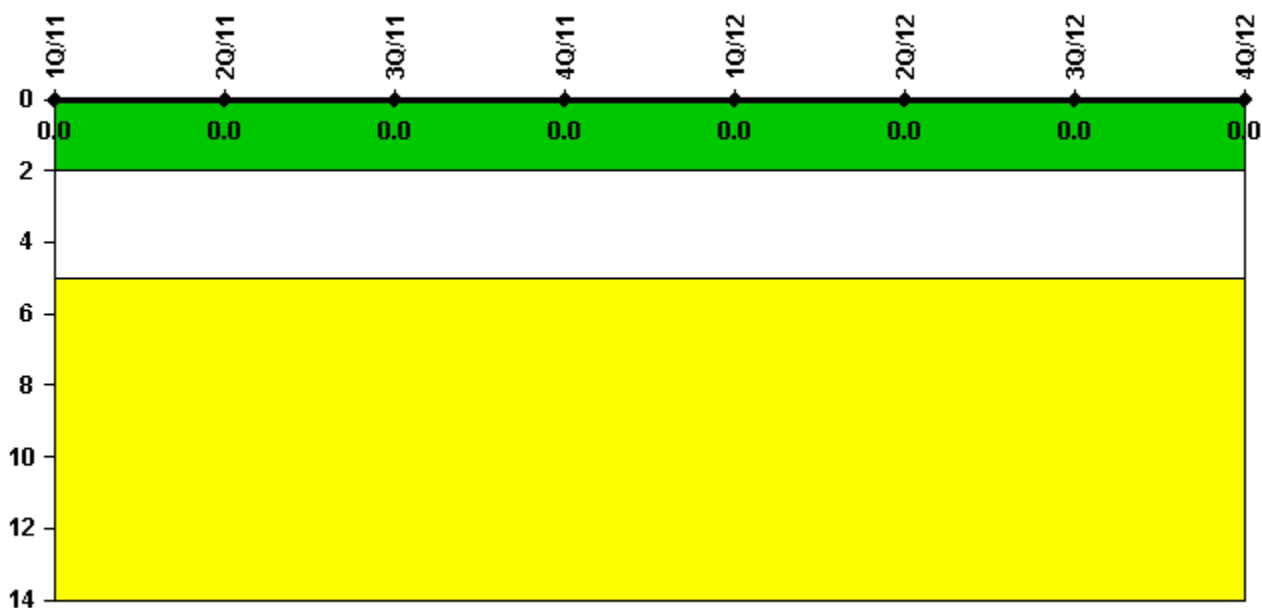
Notes

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



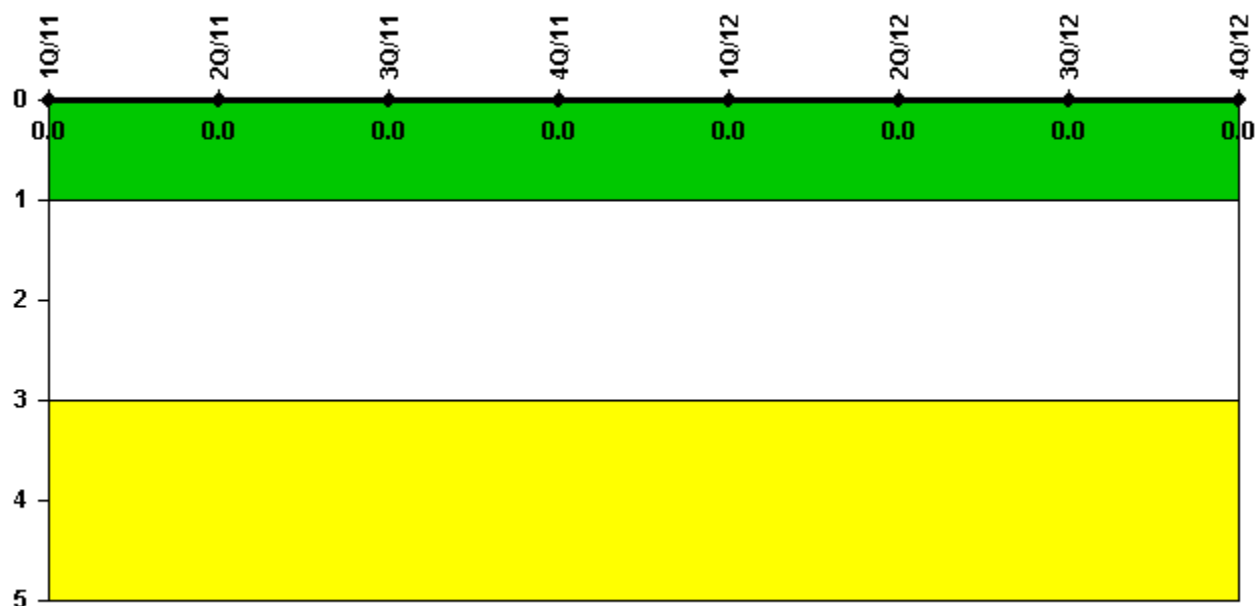
Thresholds: White > 2.0 Yellow > 5.0

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

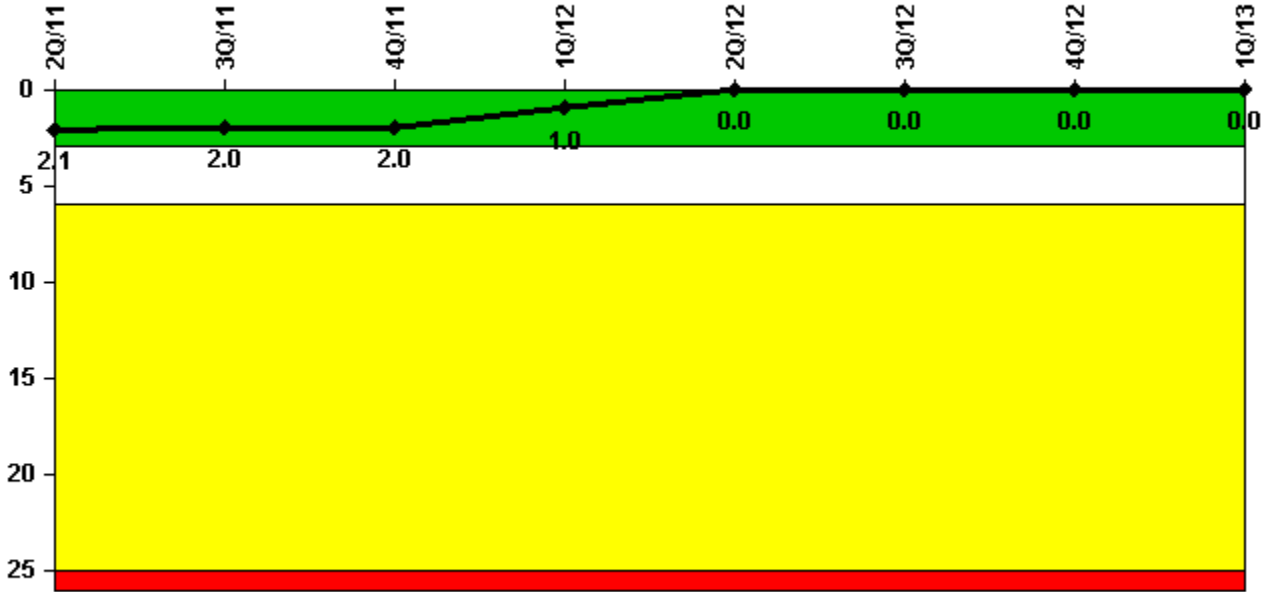
Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information 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 2

1Q/2013 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



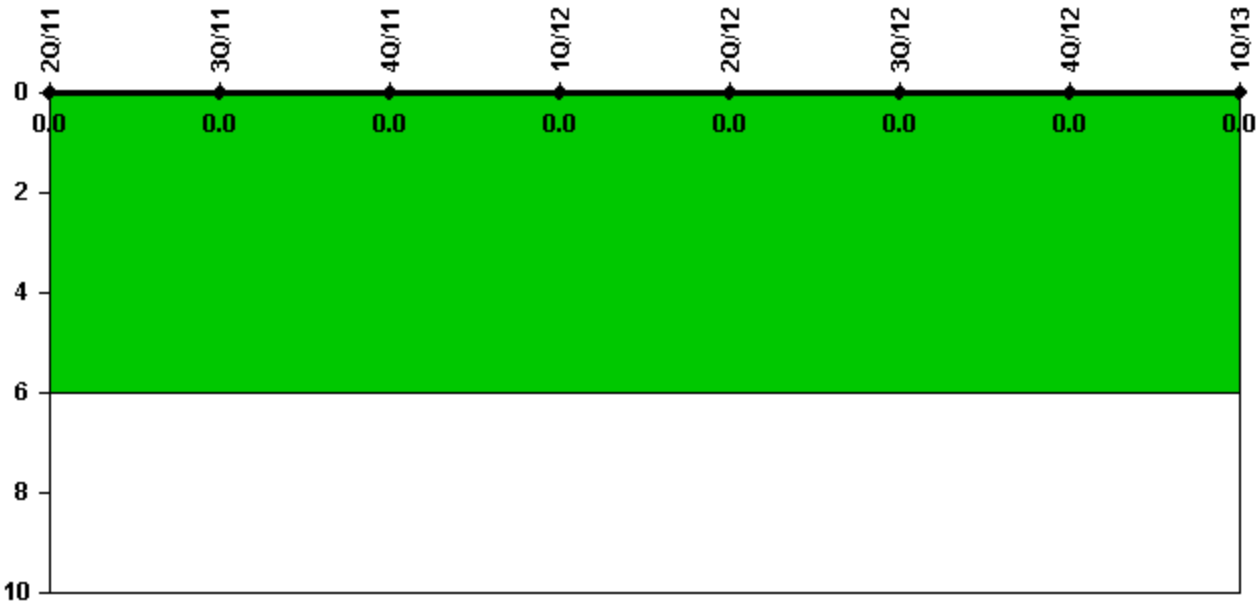
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	623.8	2208.0	2209.0	2183.0	2184.0	2208.0	1452.1	2159.0
Indicator value	2.1	2.0	2.0	1.0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



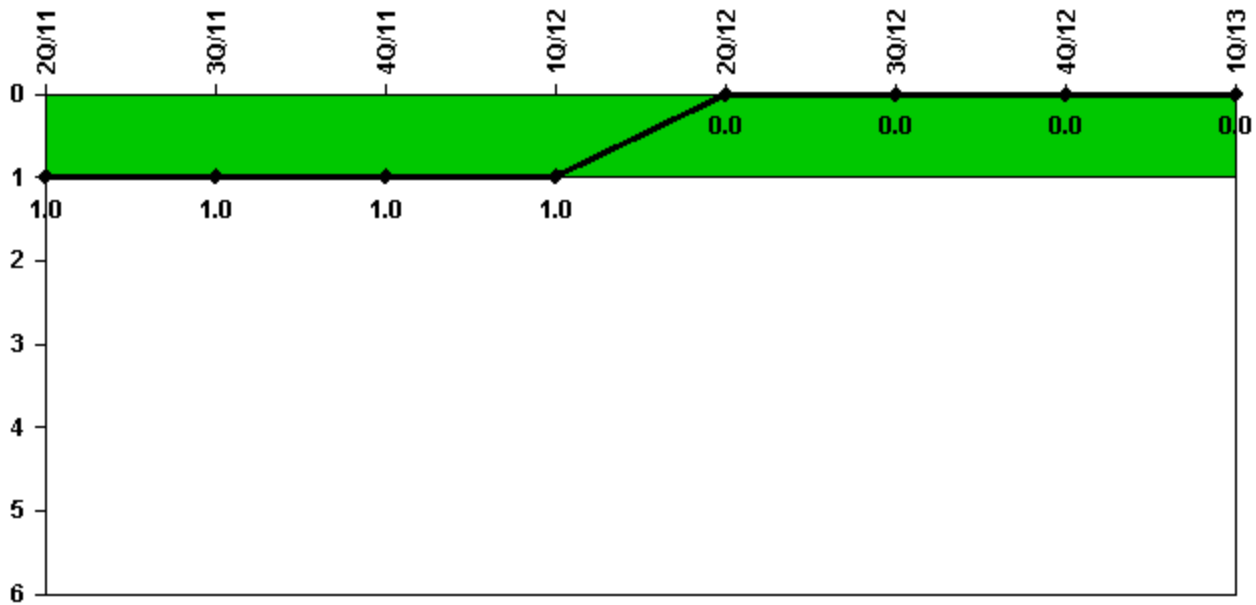
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	623.8	2208.0	2209.0	2183.0	2184.0	2208.0	1452.1	2159.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



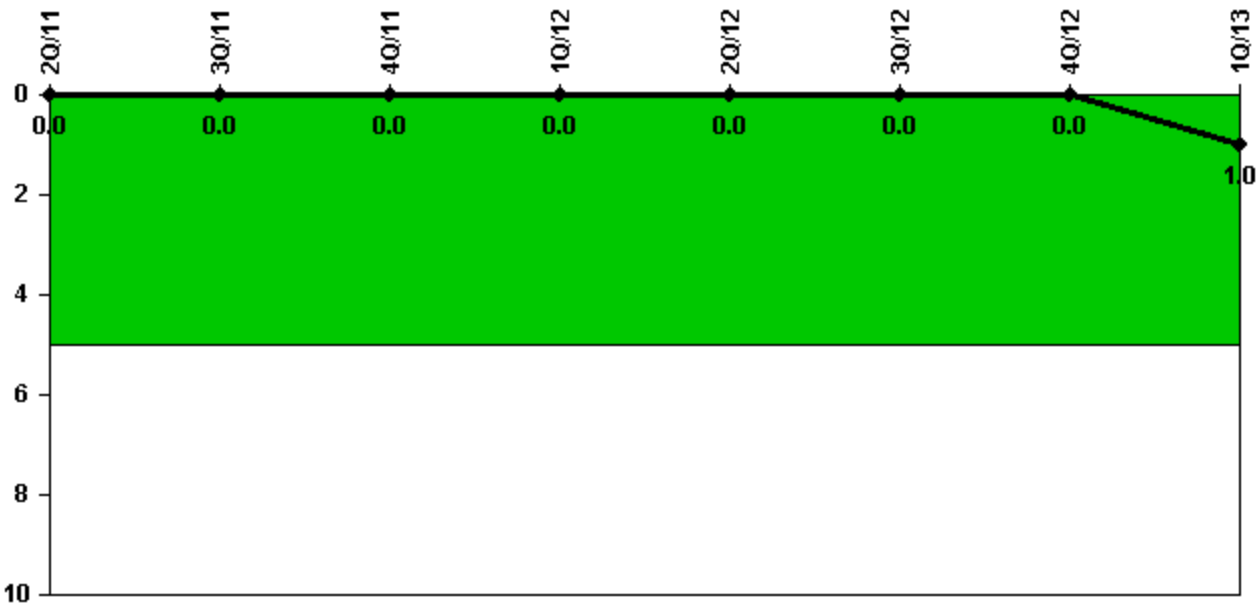
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/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

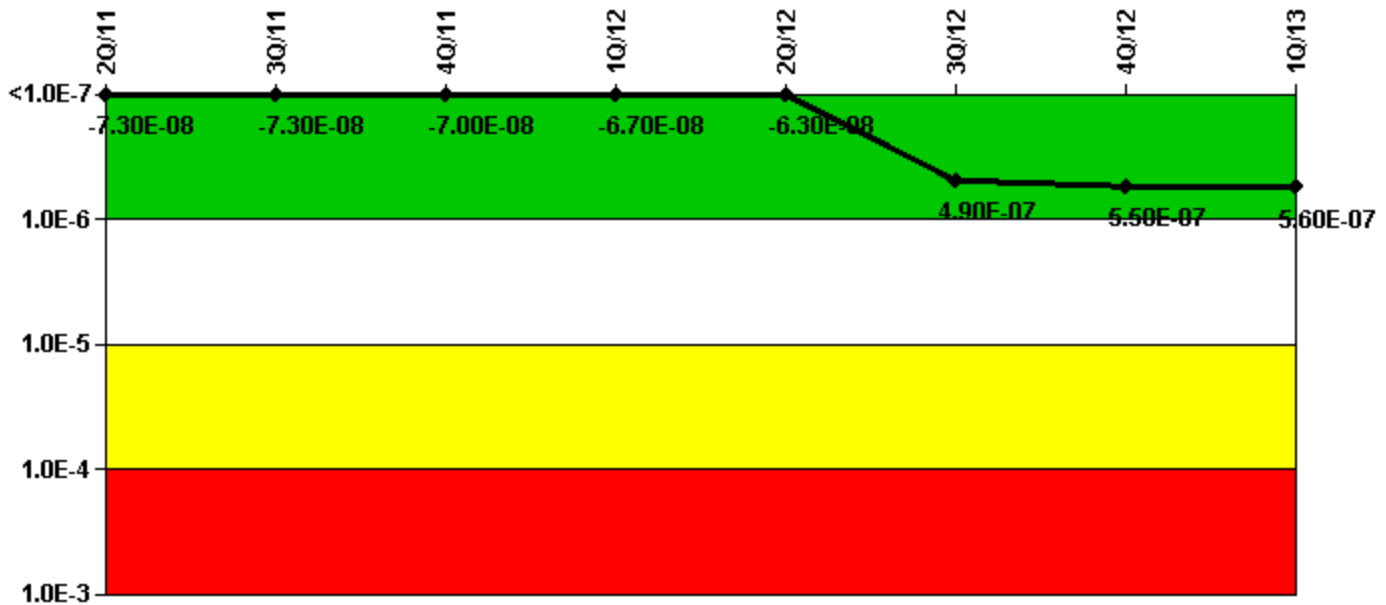
Notes

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)	-2.05E-09	-2.69E-09	-2.99E-09	-3.00E-09	-3.00E-09	4.58E-08	2.85E-08	3.22E-08
URI (ΔCDF)	-7.05E-08	-7.00E-08	-6.73E-08	-6.36E-08	-6.03E-08	4.44E-07	5.21E-07	5.27E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.30E-08	-7.30E-08	-7.00E-08	-6.70E-08	-6.30E-08	4.90E-07	5.50E-07	5.60E-07

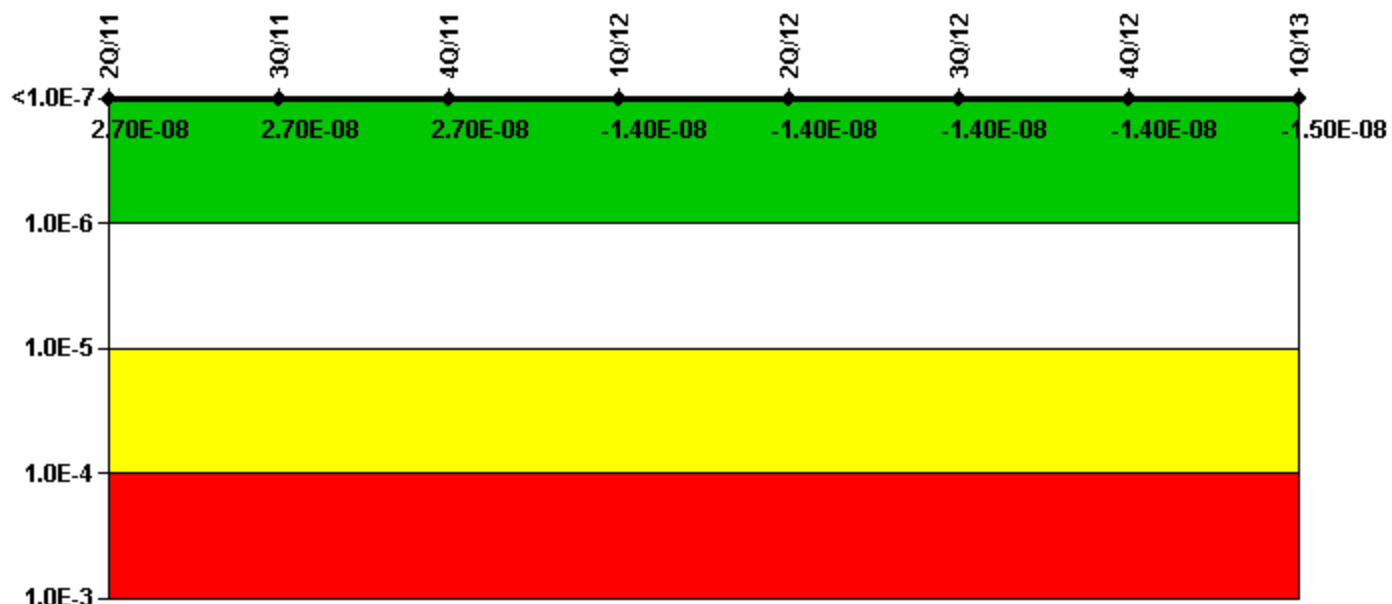
Licensee Comments:

1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked. An evaluation for an August run failure of #2 emergency diesel was completed. Therefore historical data for August 2012 was changed with no change in color.

3Q/12: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



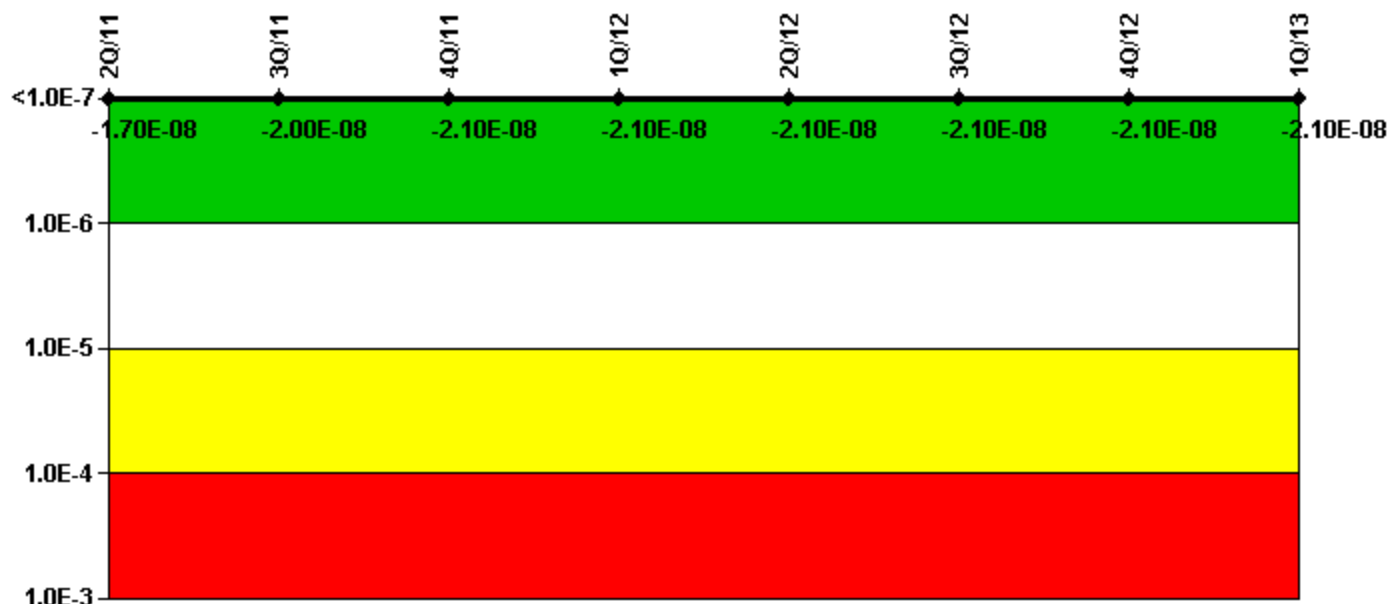
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	1.55E-09	1.68E-09	2.30E-09	1.95E-09	1.92E-09	1.32E-09	1.31E-09	-2.13E-10
URI (Δ CDF)	2.56E-08	2.50E-08	2.47E-08	-1.58E-08	-1.55E-08	-1.51E-08	-1.52E-08	-1.51E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.70E-08	2.70E-08	2.70E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



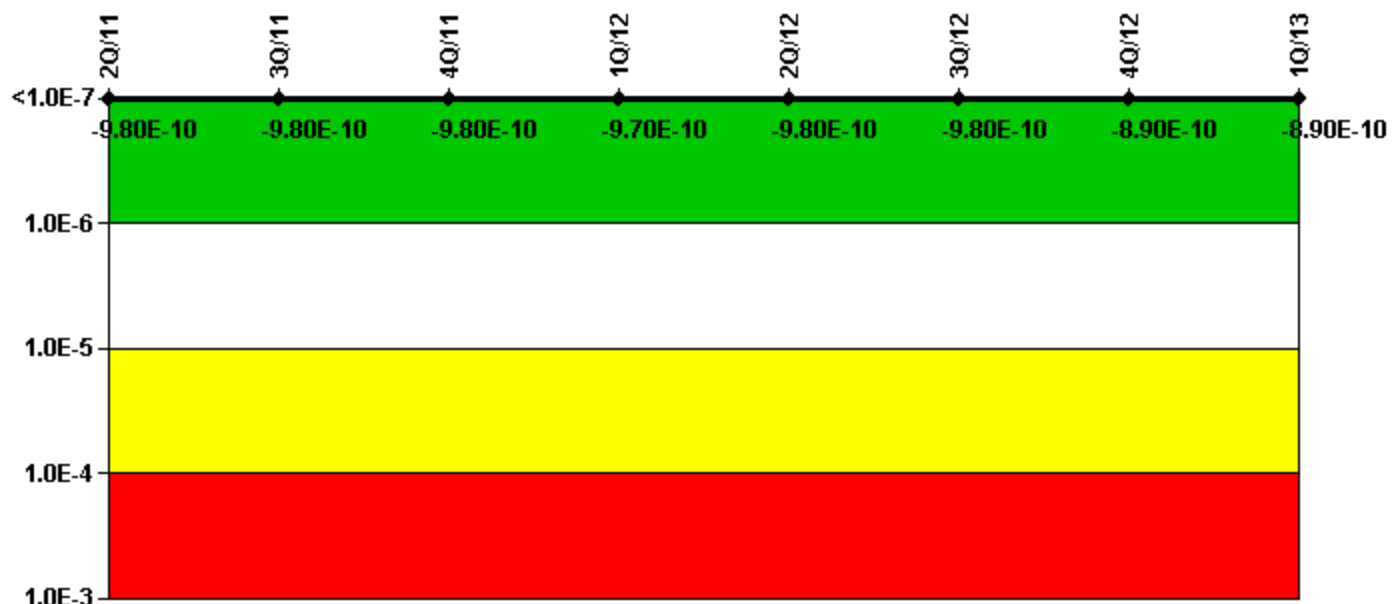
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	-1.49E-09	-5.50E-09	-5.77E-09	-5.77E-09	-5.72E-09	-5.69E-09	-5.68E-09	-5.68E-09
URI (Δ CDF)	-1.54E-08	-1.49E-08	-1.49E-08	-1.54E-08	-1.49E-08	-1.49E-08	-1.54E-08	-1.54E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-08	-2.00E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



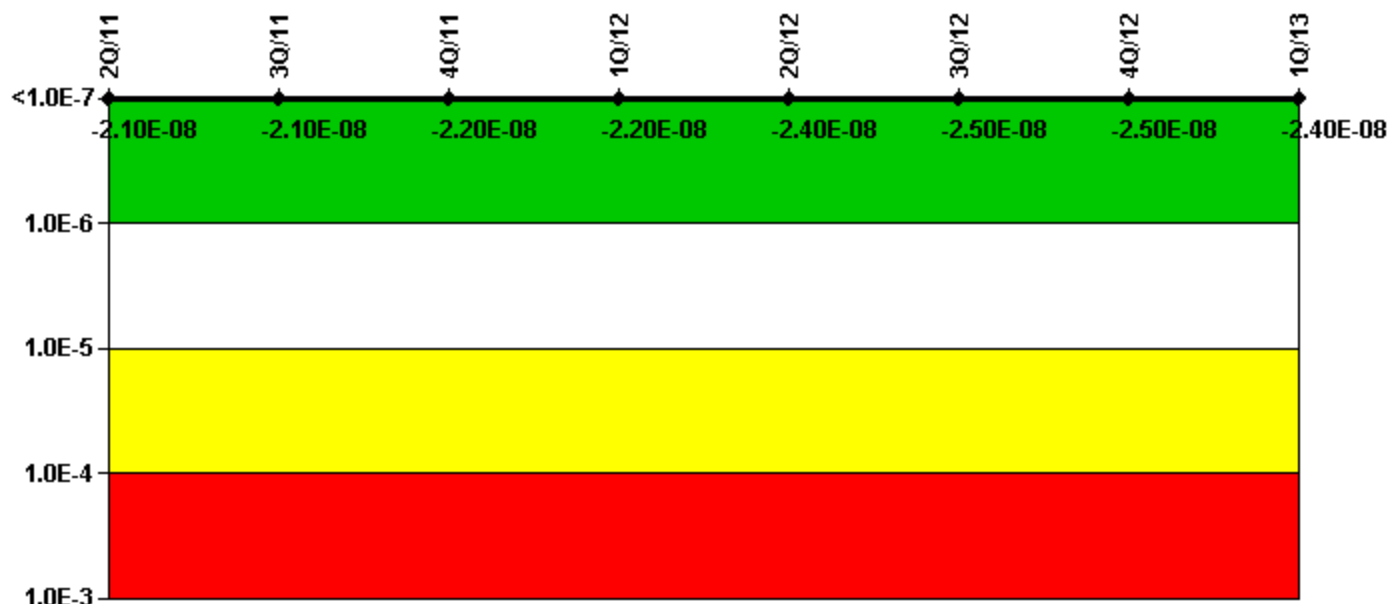
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	1.13E-10	1.25E-10	1.30E-10	1.53E-10	1.50E-10	1.46E-10	1.47E-10	1.47E-10
URI (Δ CDF)	-1.09E-09	-1.10E-09	-1.11E-09	-1.13E-09	-1.13E-09	-1.13E-09	-1.03E-09	-1.04E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.80E-10	-9.80E-10	-9.80E-10	-9.70E-10	-9.80E-10	-9.80E-10	-8.90E-10	-8.90E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



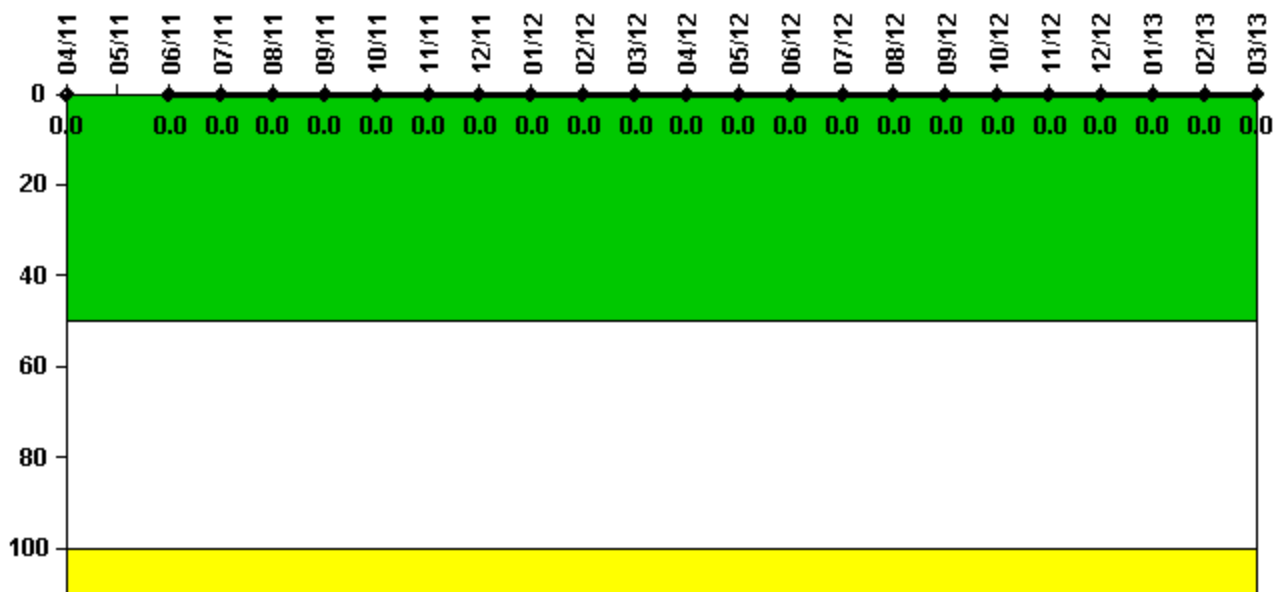
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	2.11E-09	1.38E-09	1.21E-09	1.01E-09	7.76E-13	-1.53E-09	-1.34E-09	-1.11E-09
URI (Δ CDF)	-2.28E-08	-2.27E-08	-2.31E-08	-2.35E-08	-2.37E-08	-2.39E-08	-2.34E-08	-2.32E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.10E-08	-2.10E-08	-2.20E-08	-2.20E-08	-2.40E-08	-2.50E-08	-2.50E-08	-2.40E-08

Licensee Comments: none

Reactor Coolant System Activity



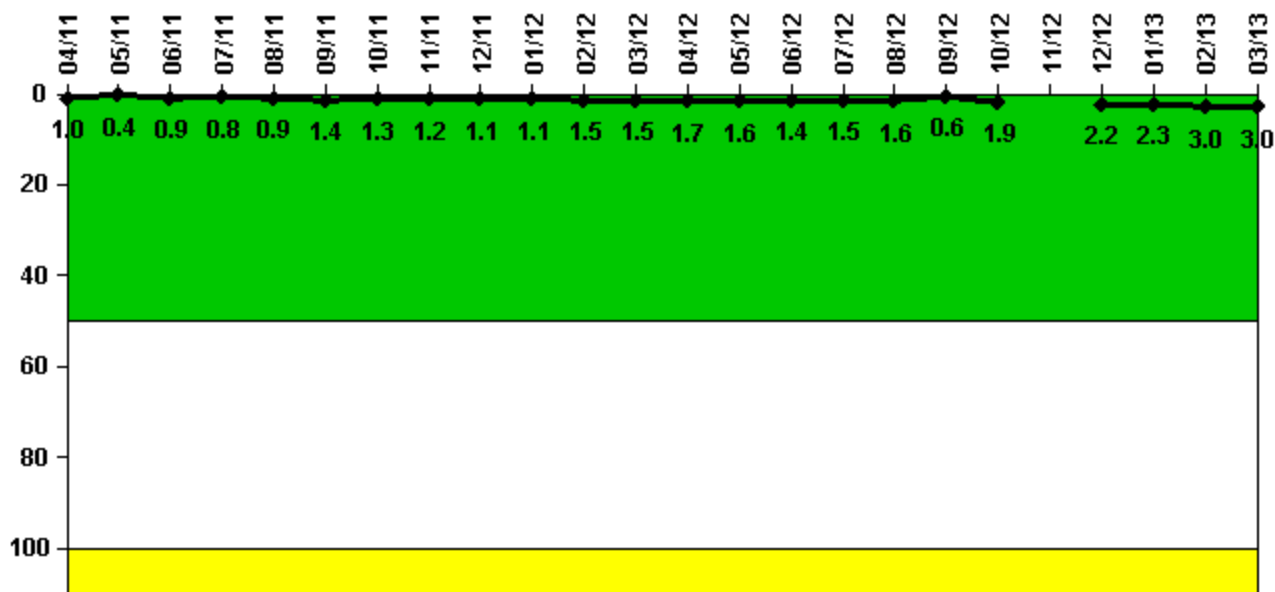
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum activity	0.000281	N/A	0.000140	0.000120	0.000131	0.000212	0.000155	0.000315	0.000198	0.000149	0.000196	0.000185
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	N/A	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	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	0.000231	0.000202	0.000165	0.000174	0.000202	0.000224	0.000190	0.000180	0.000132	0.000100	0.000131	0.000105
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



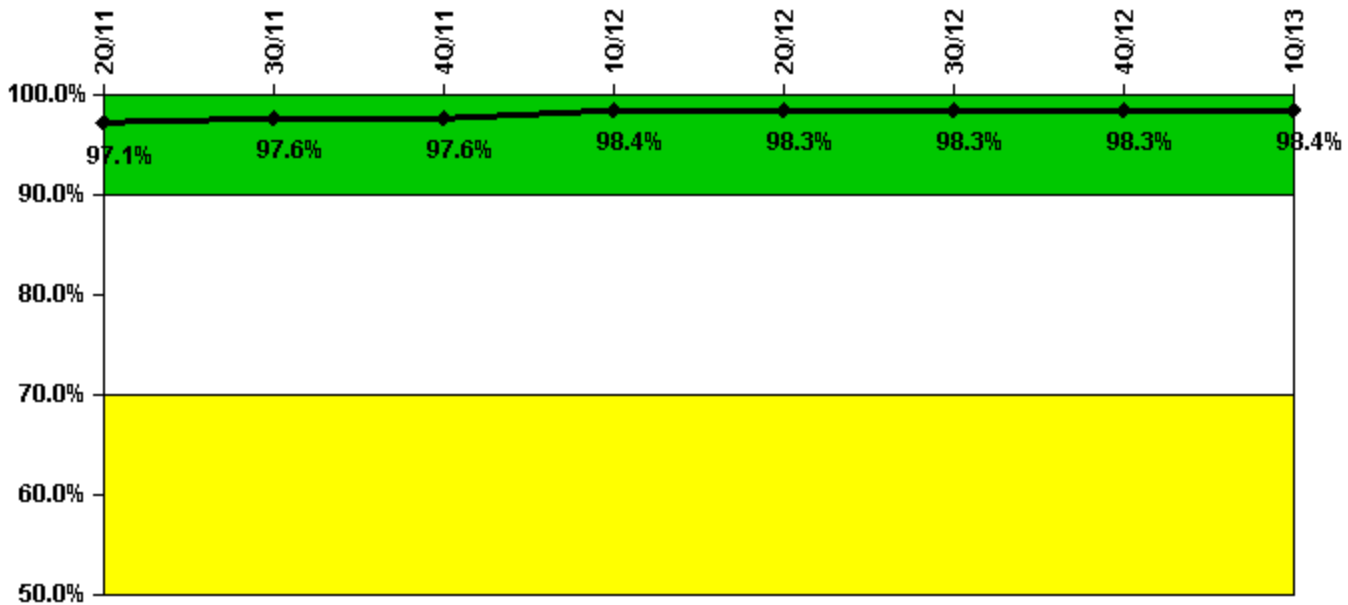
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum leakage	0.100	0.043	0.090	0.080	0.090	0.140	0.130	0.120	0.110	0.110	0.150	0.150
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	0.4	0.9	0.8	0.9	1.4	1.3	1.2	1.1	1.1	1.5	1.5
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	0.170	0.160	0.140	0.150	0.160	0.060	0.190	N/A	0.220	0.230	0.300	0.300
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.7	1.6	1.4	1.5	1.6	0.6	1.9	N/A	2.2	2.3	3.0	3.0

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

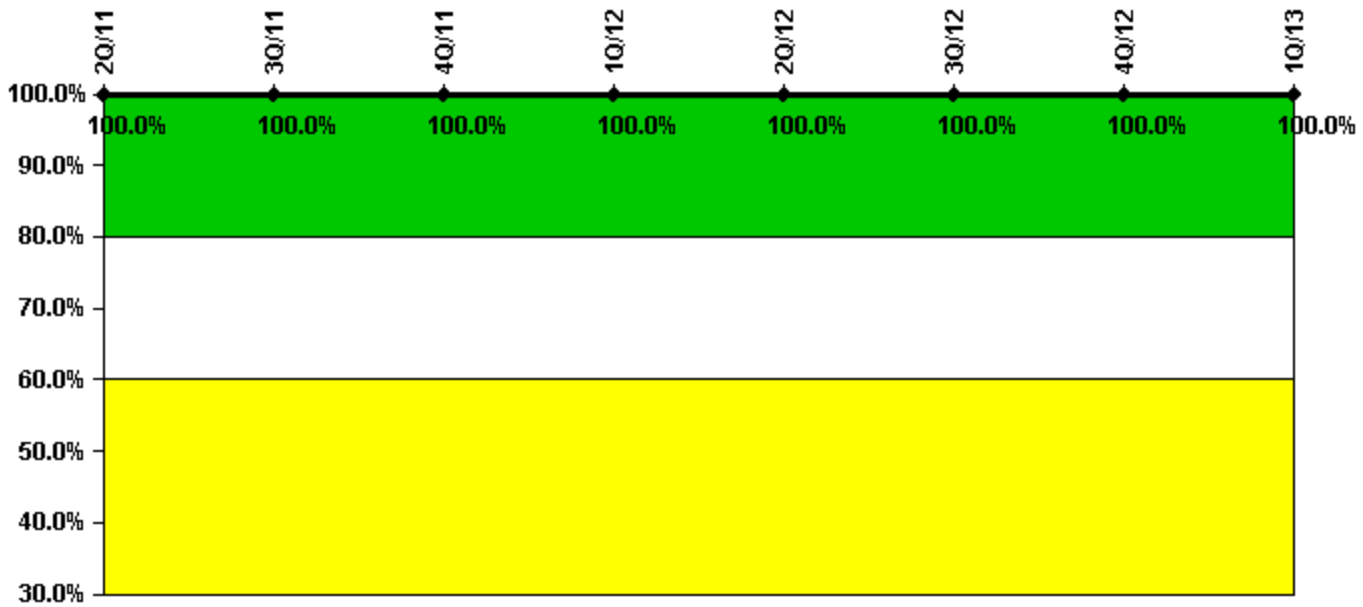
Notes

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



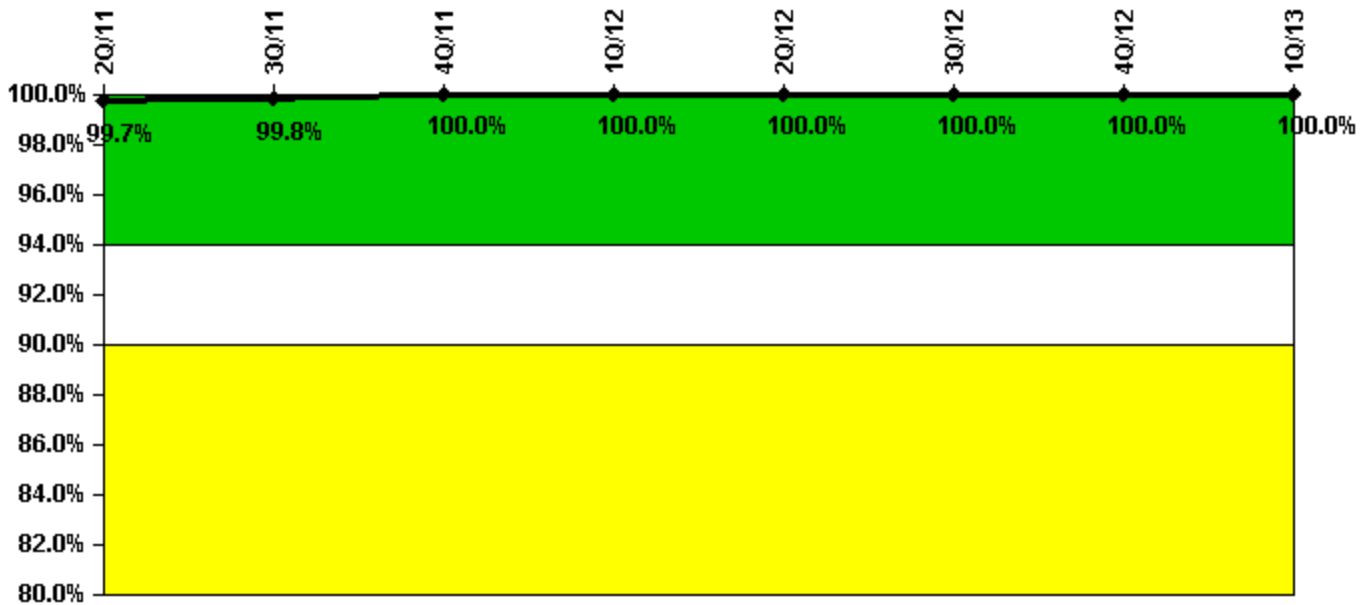
Thresholds: White < 80.0% Yellow < 60.0%

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%

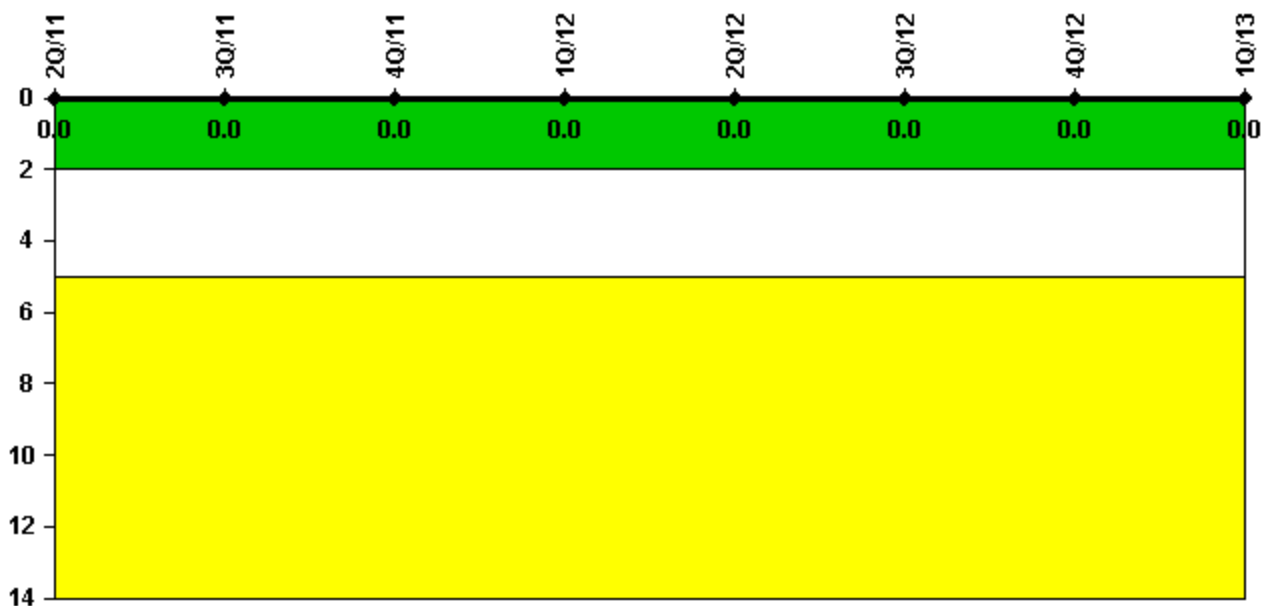
Notes

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



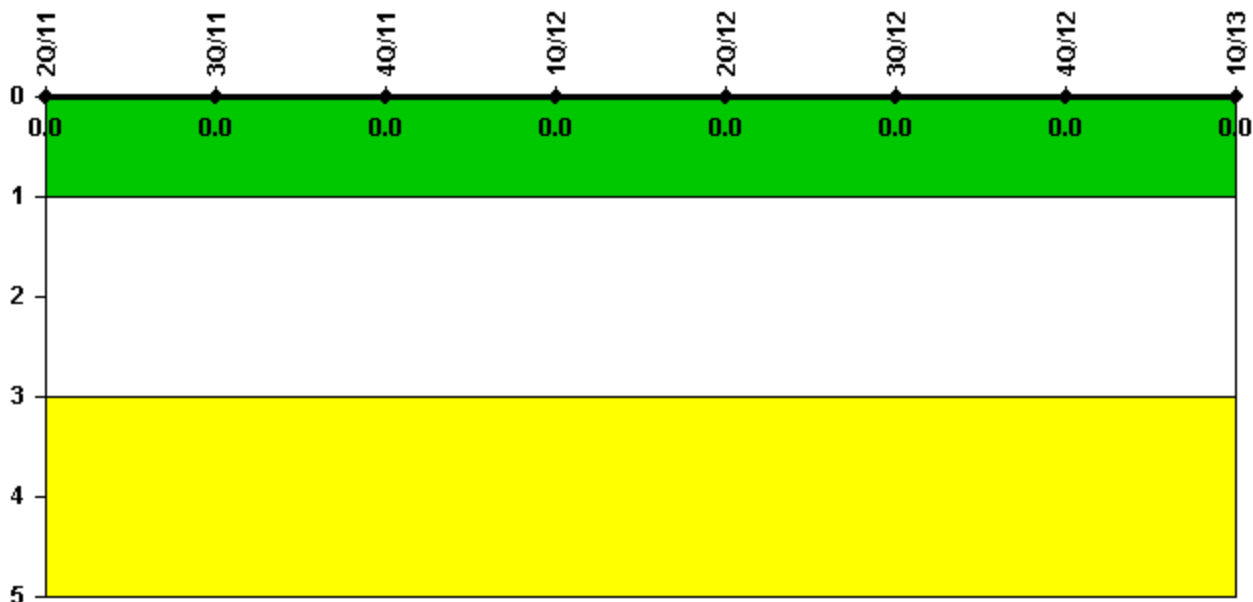
Thresholds: White > 2.0 Yellow > 5.0

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

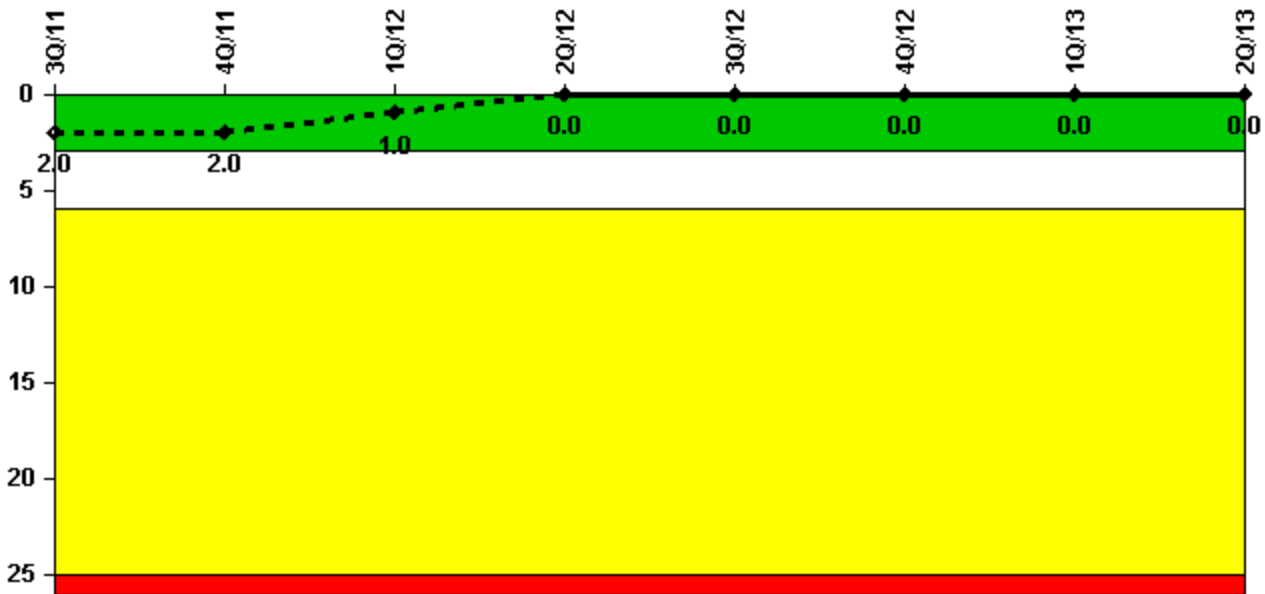
Surry 2

2Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



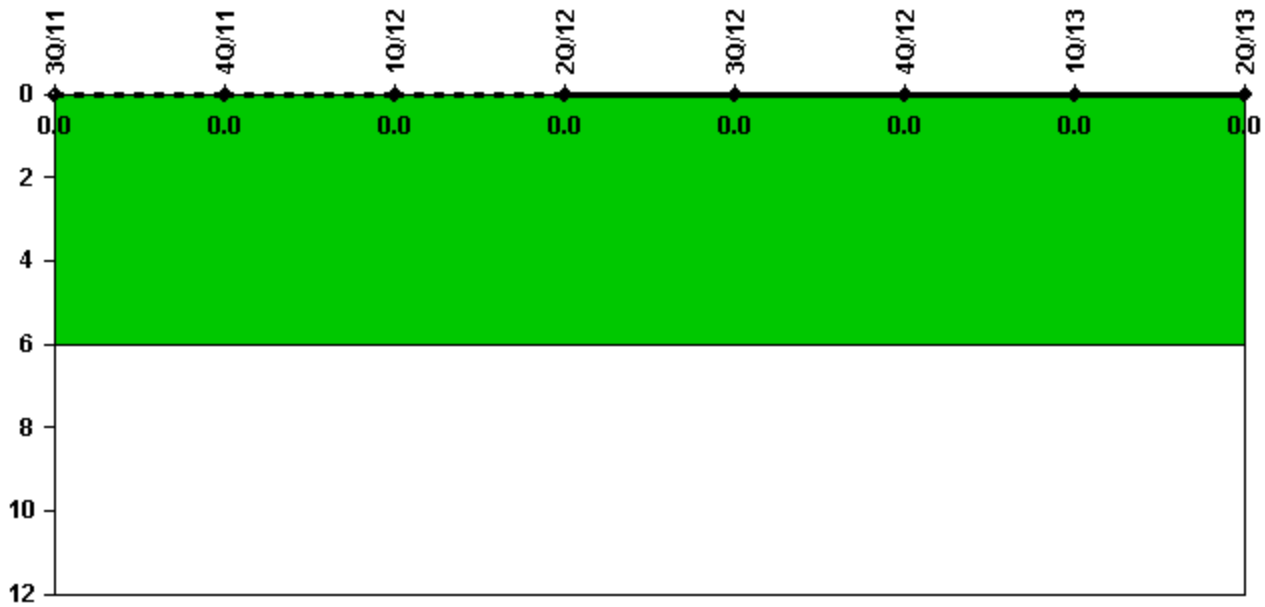
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	2208.0	1452.1	2159.0	2184.0
Indicator value	2.0	2.0	1.0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



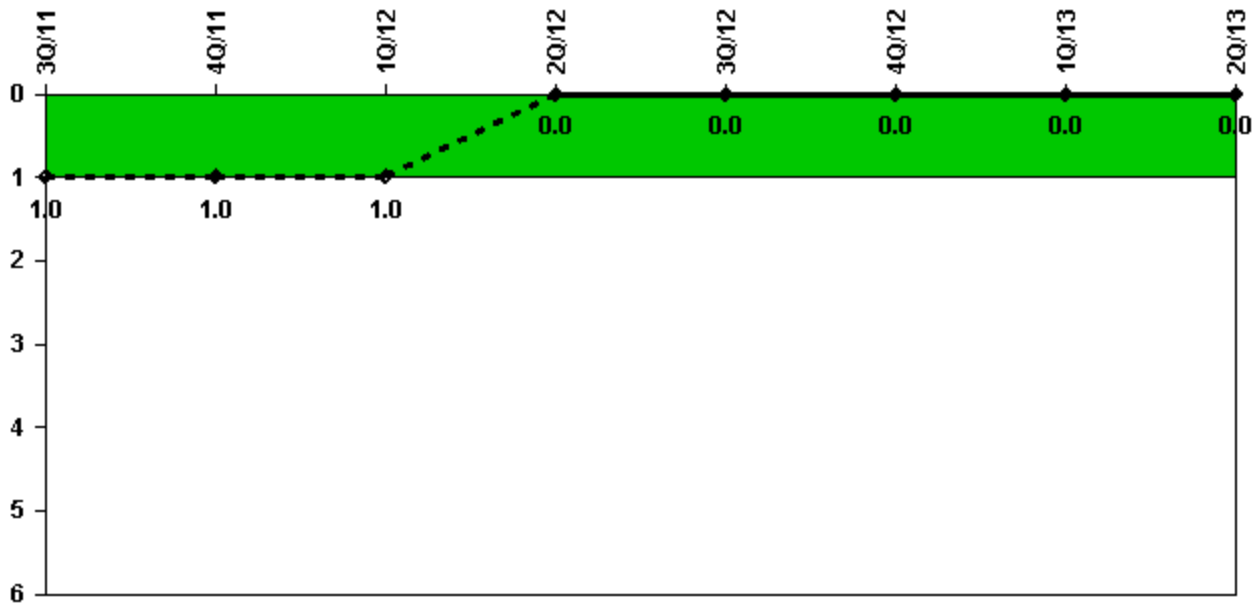
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	2208.0	1452.1	2159.0	2184.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



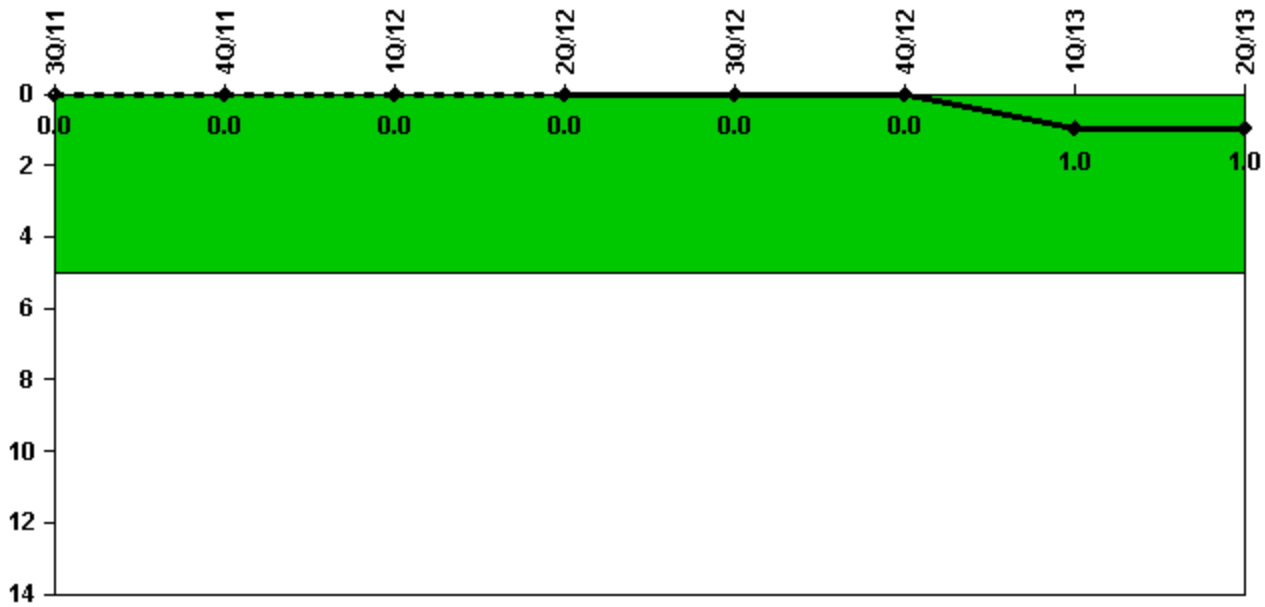
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	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

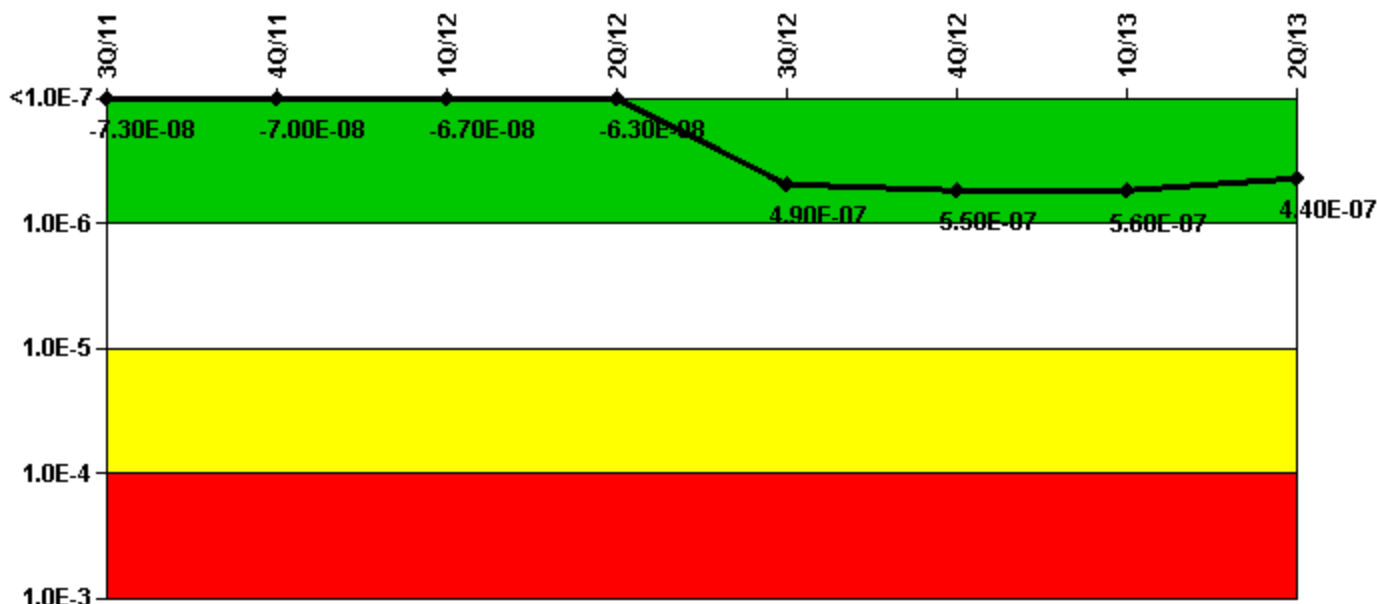
Notes

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)	-2.69E-09	-2.99E-09	-3.00E-09	-3.00E-09	4.58E-08	2.85E-08	3.22E-08	7.73E-09
URI (ΔCDF)	-7.00E-08	-6.73E-08	-6.36E-08	-6.03E-08	4.44E-07	5.21E-07	5.27E-07	4.34E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.30E-08	-7.00E-08	-6.70E-08	-6.30E-08	4.90E-07	5.50E-07	5.60E-07	4.40E-07

Licensee Comments:

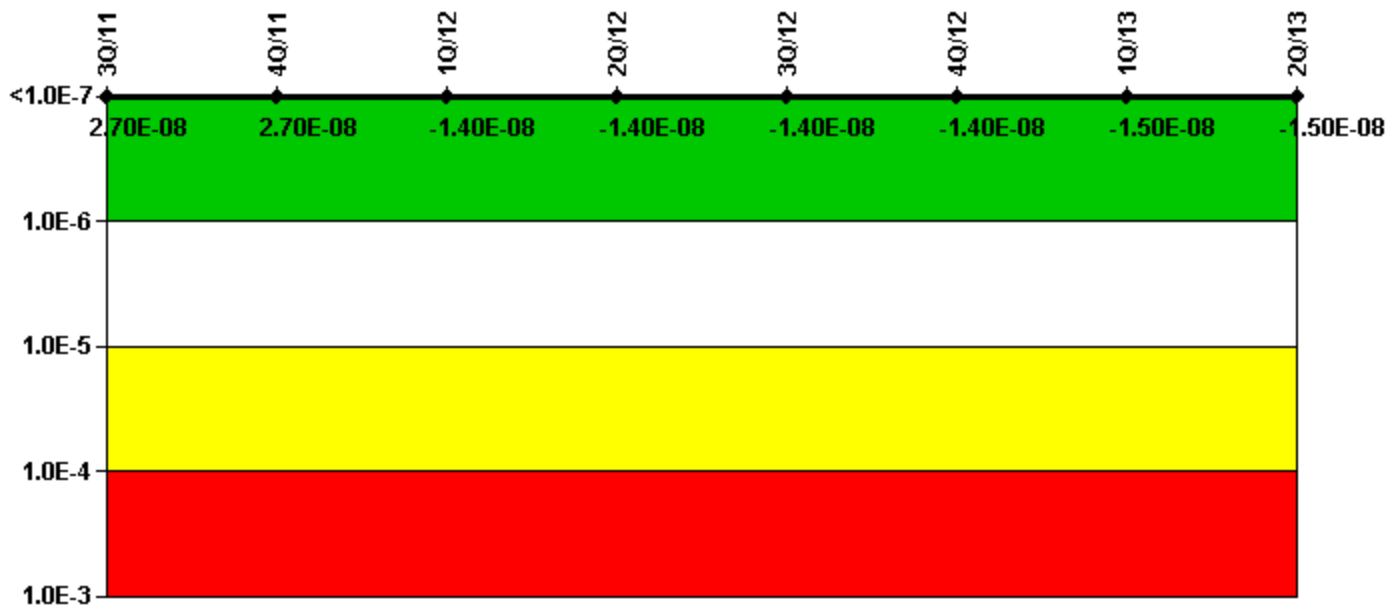
2Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked. An evaluation for an August run failure of #2 emergency diesel was completed. Therefore historical data for August 2012 was changed with no change in color.

3Q/12: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



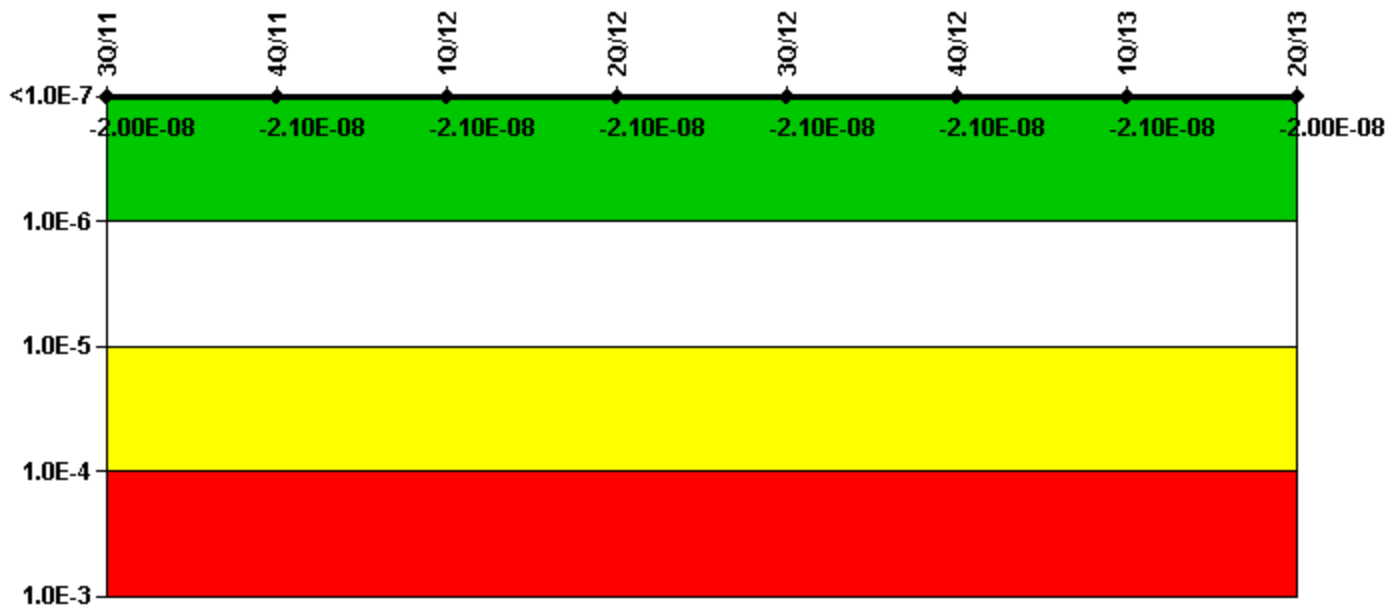
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	1.68E-09	2.30E-09	1.95E-09	1.92E-09	1.32E-09	1.31E-09	-2.13E-10	2.17E-10
URI (Δ CDF)	2.50E-08	2.47E-08	-1.58E-08	-1.55E-08	-1.51E-08	-1.52E-08	-1.51E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.70E-08	2.70E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.50E-08	-1.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



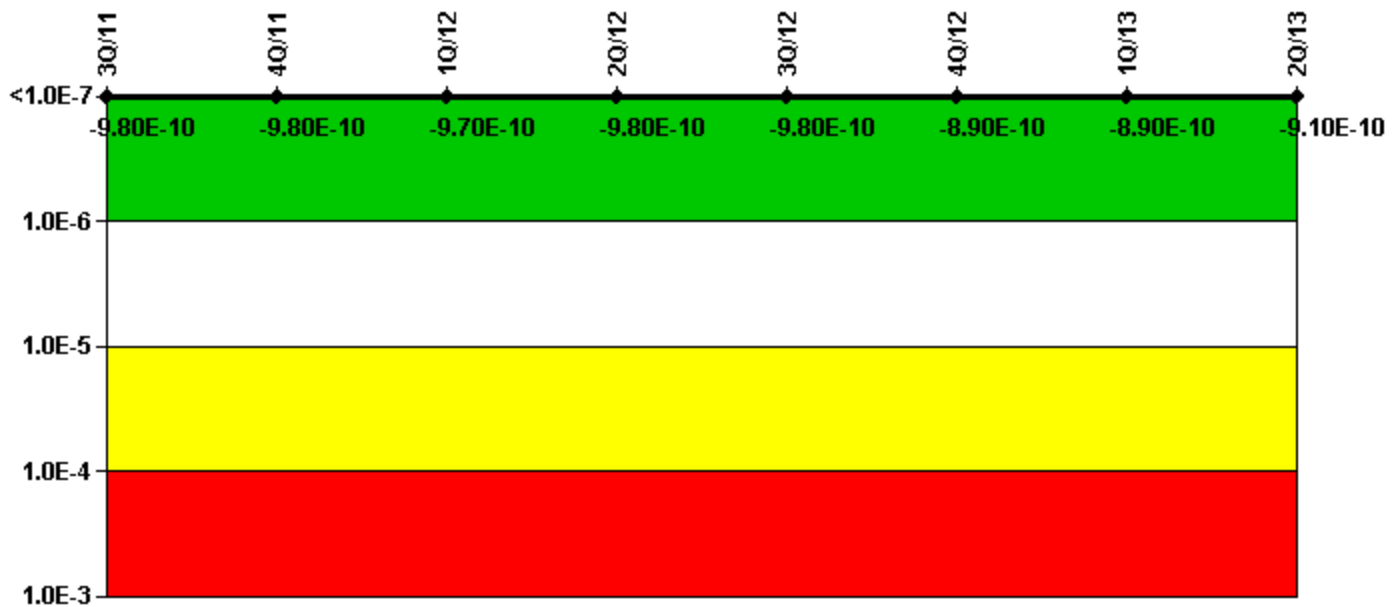
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	-5.50E-09	-5.77E-09	-5.77E-09	-5.72E-09	-5.69E-09	-5.68E-09	-5.68E-09	-4.23E-09
URI (Δ CDF)	-1.49E-08	-1.49E-08	-1.54E-08	-1.49E-08	-1.49E-08	-1.54E-08	-1.54E-08	-1.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



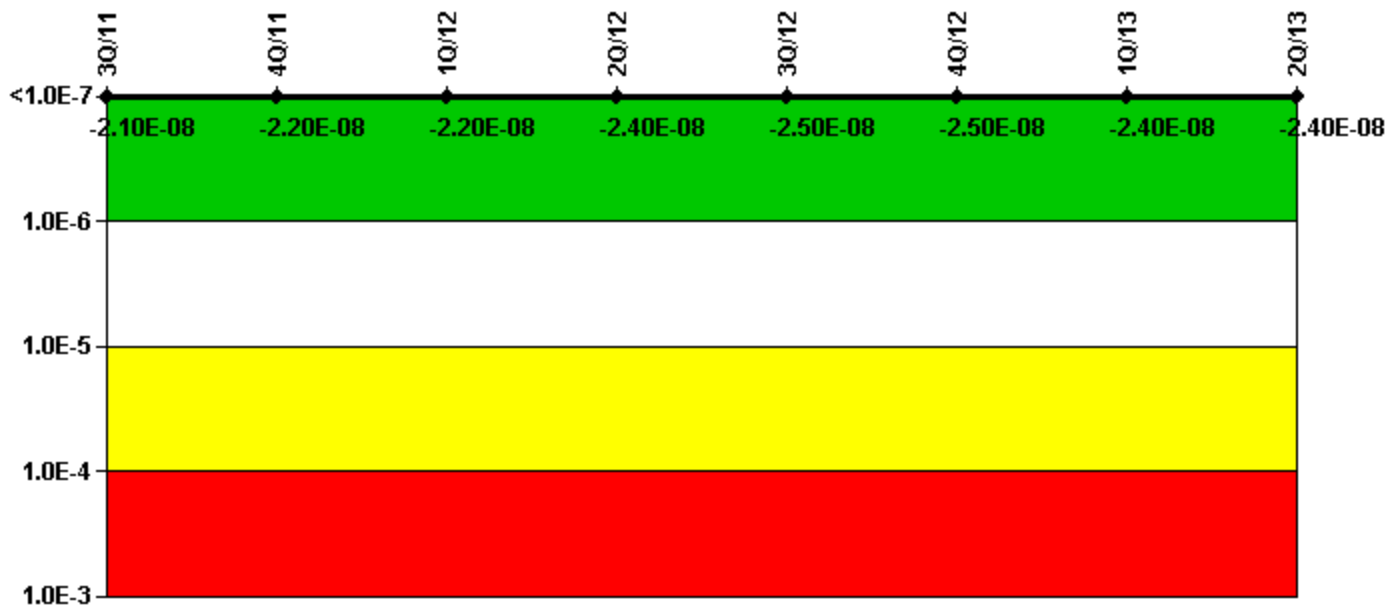
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	1.25E-10	1.30E-10	1.53E-10	1.50E-10	1.46E-10	1.47E-10	1.47E-10	1.41E-10
URI (Δ CDF)	-1.10E-09	-1.11E-09	-1.13E-09	-1.13E-09	-1.13E-09	-1.03E-09	-1.04E-09	-1.05E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.80E-10	-9.80E-10	-9.70E-10	-9.80E-10	-9.80E-10	-8.90E-10	-8.90E-10	-9.10E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



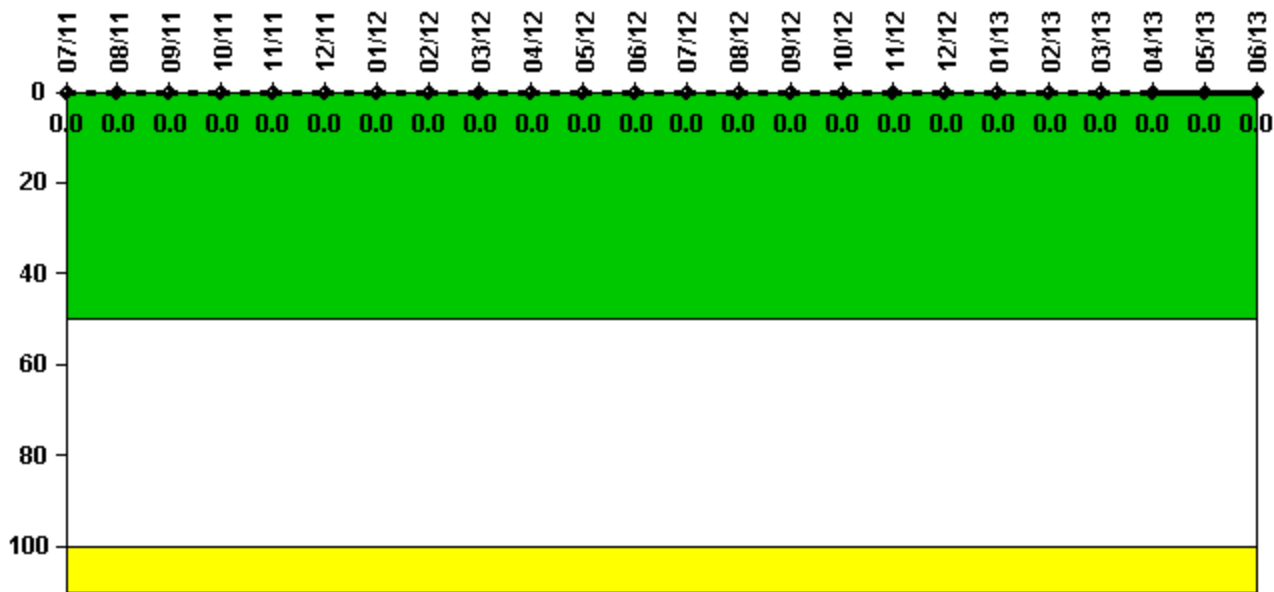
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	1.38E-09	1.21E-09	1.01E-09	7.76E-13	-1.53E-09	-1.34E-09	-1.11E-09	-1.11E-09
URI (Δ CDF)	-2.27E-08	-2.31E-08	-2.35E-08	-2.37E-08	-2.39E-08	-2.34E-08	-2.32E-08	-2.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.10E-08	-2.20E-08	-2.20E-08	-2.40E-08	-2.50E-08	-2.50E-08	-2.40E-08	-2.40E-08

Licensee Comments: none

Reactor Coolant System Activity



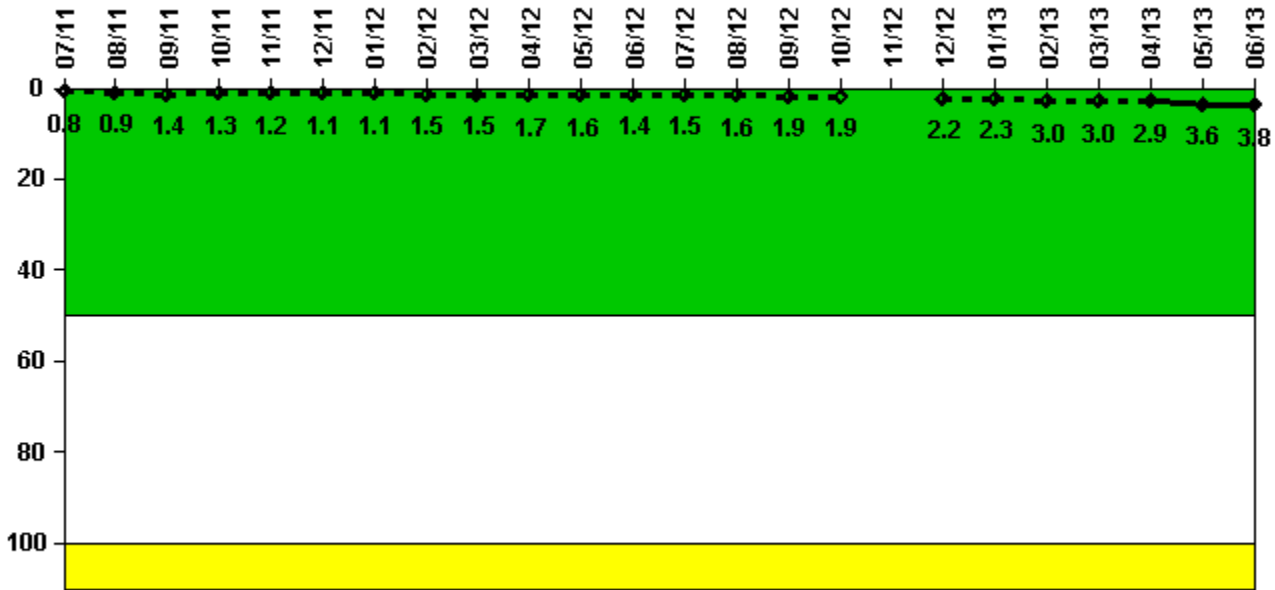
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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	0.000120	0.000131	0.000212	0.000155	0.000315	0.000198	0.000149	0.000196	0.000185	0.000231	0.000202	0.000165
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum activity	0.000174	0.000202	0.000224	0.000190	0.000180	0.000132	0.000100	0.000131	0.000105	0.000109	0.000120	0.000115
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

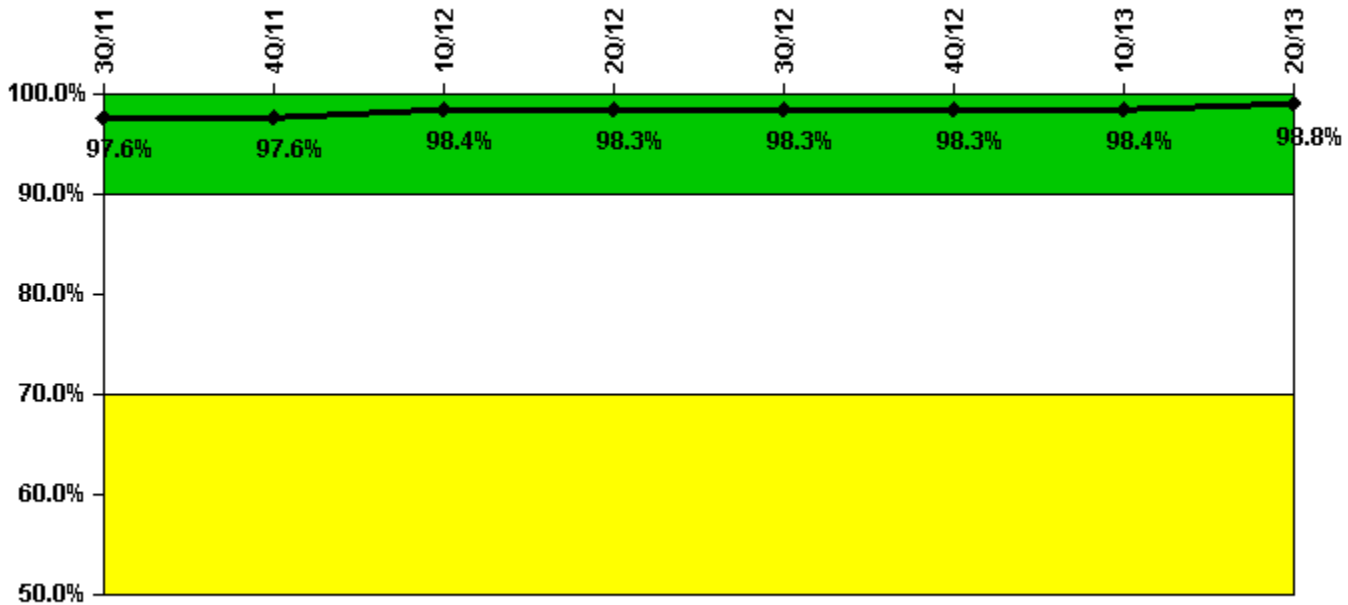
Notes

Reactor Coolant System Leakage	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum leakage	0.080	0.090	0.140	0.130	0.120	0.110	0.110	0.150	0.150	0.170	0.160	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	0.8	0.9	1.4	1.3	1.2	1.1	1.1	1.5	1.5	1.7	1.6	1.4
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	0.150	0.160	0.190	0.190	N/A	0.220	0.230	0.300	0.300	0.290	0.360	0.380
Technical specification limit	10.0	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	1.6	1.9	1.9	N/A	2.2	2.3	3.0	3.0	2.9	3.6	3.8

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September 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%

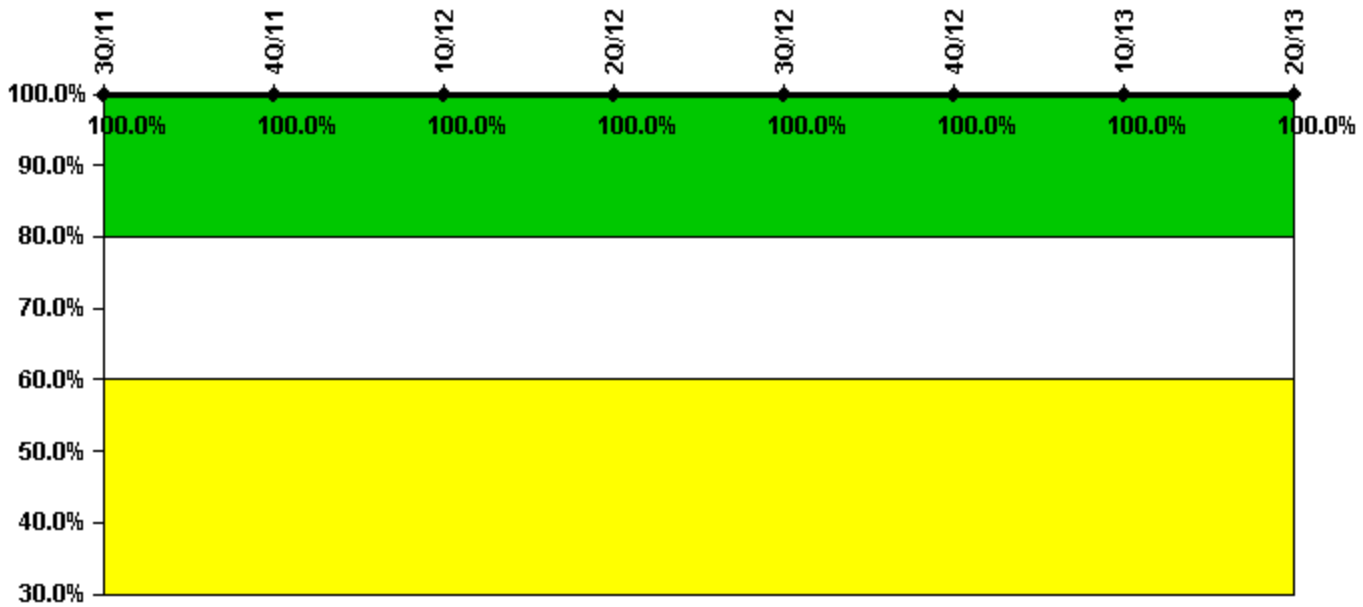
Notes

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



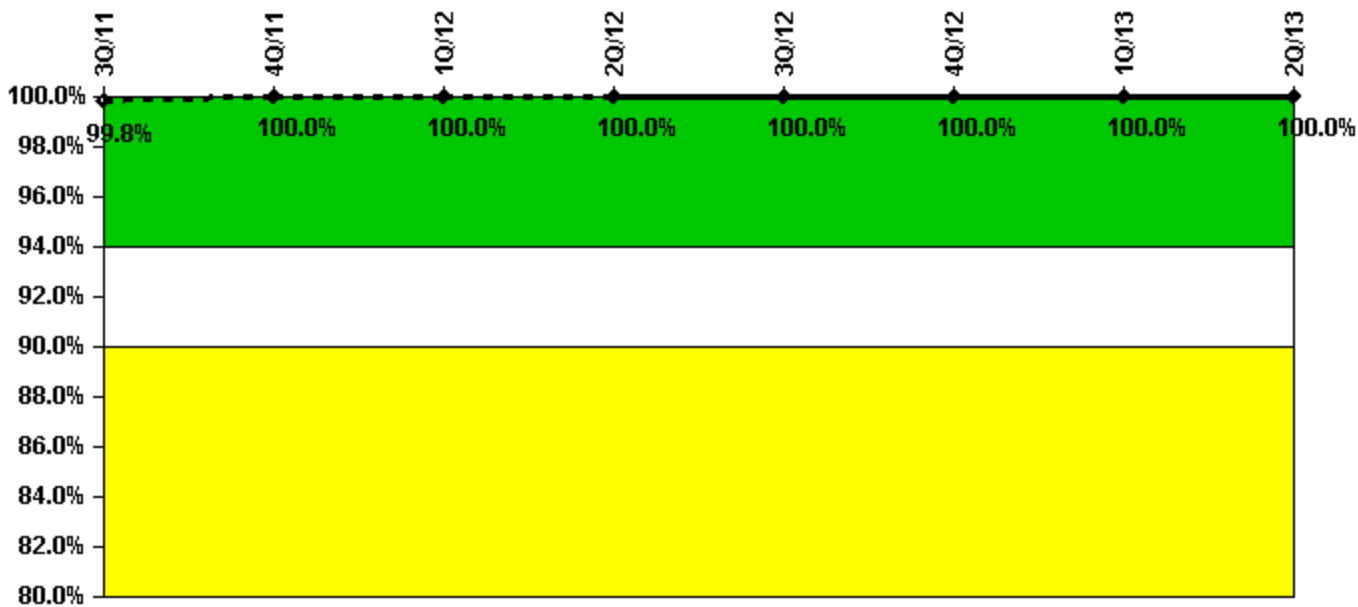
Thresholds: White < 80.0% Yellow < 60.0%

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



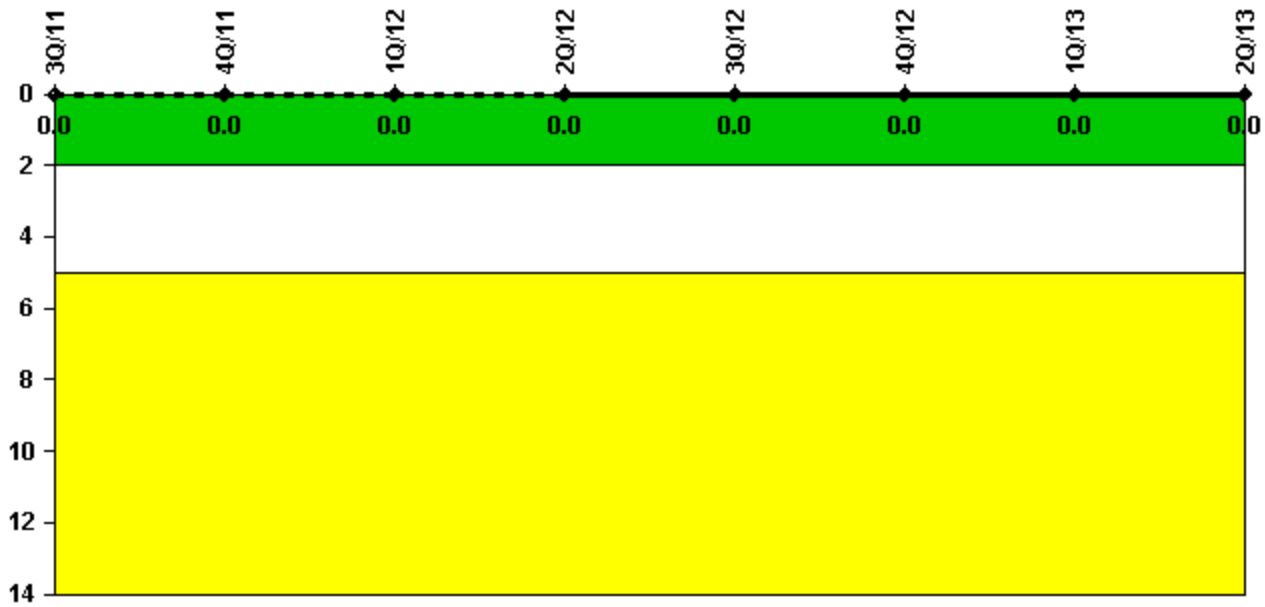
Thresholds: White < 94.0% Yellow < 90.0%

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



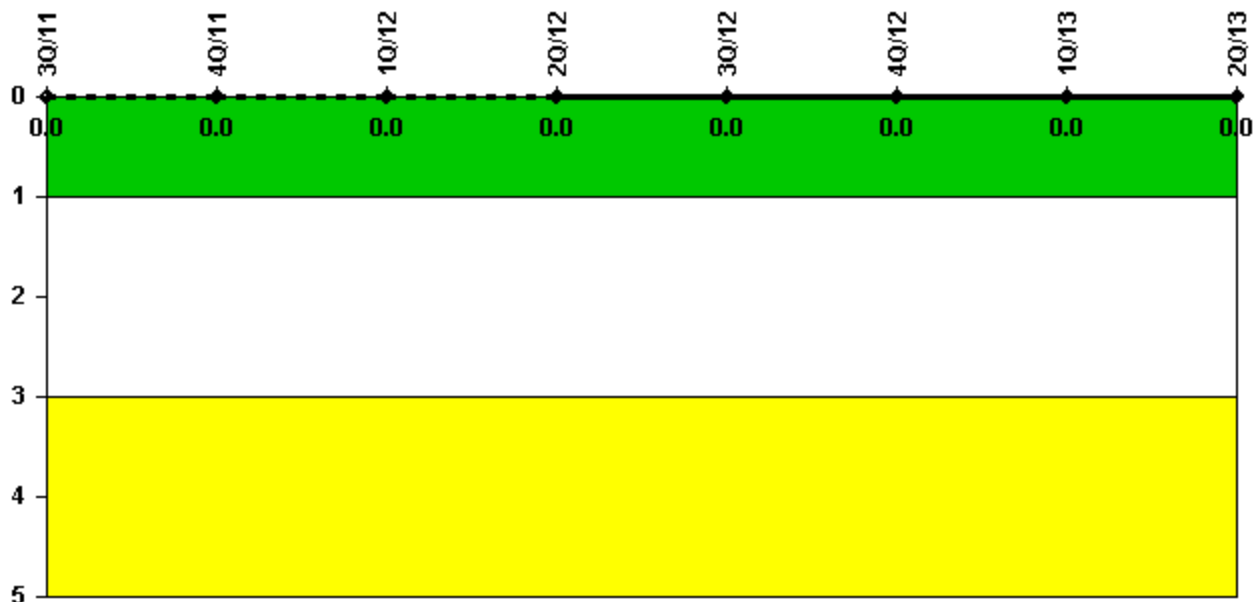
Thresholds: White > 2.0 Yellow > 5.0

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

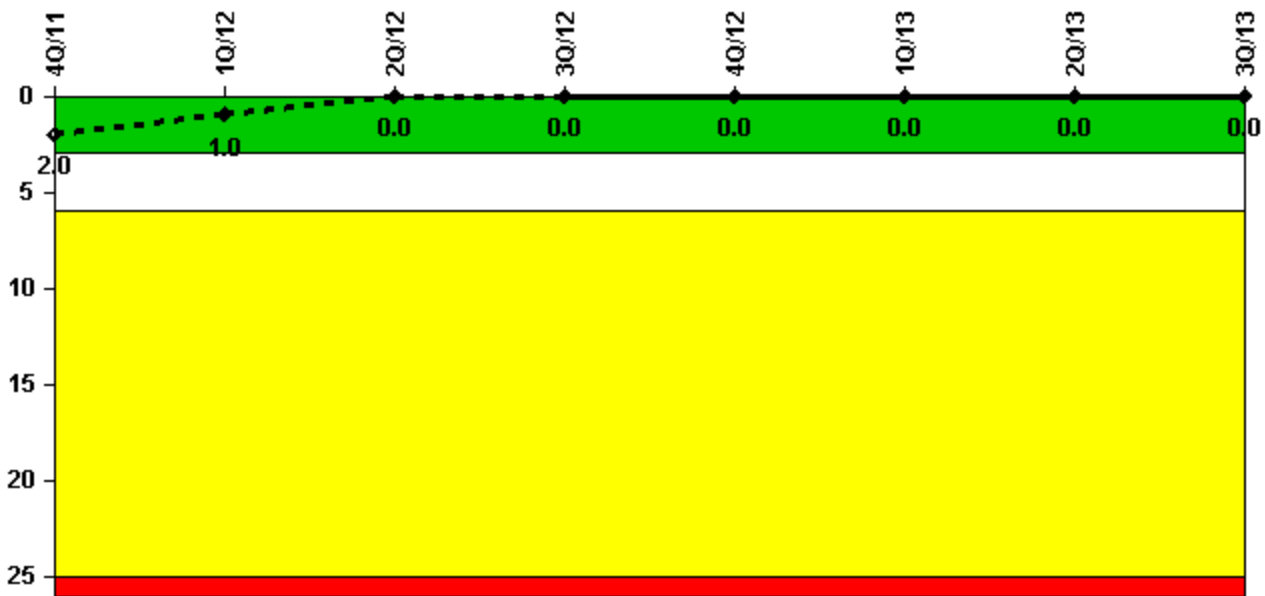
Surry 2

3Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



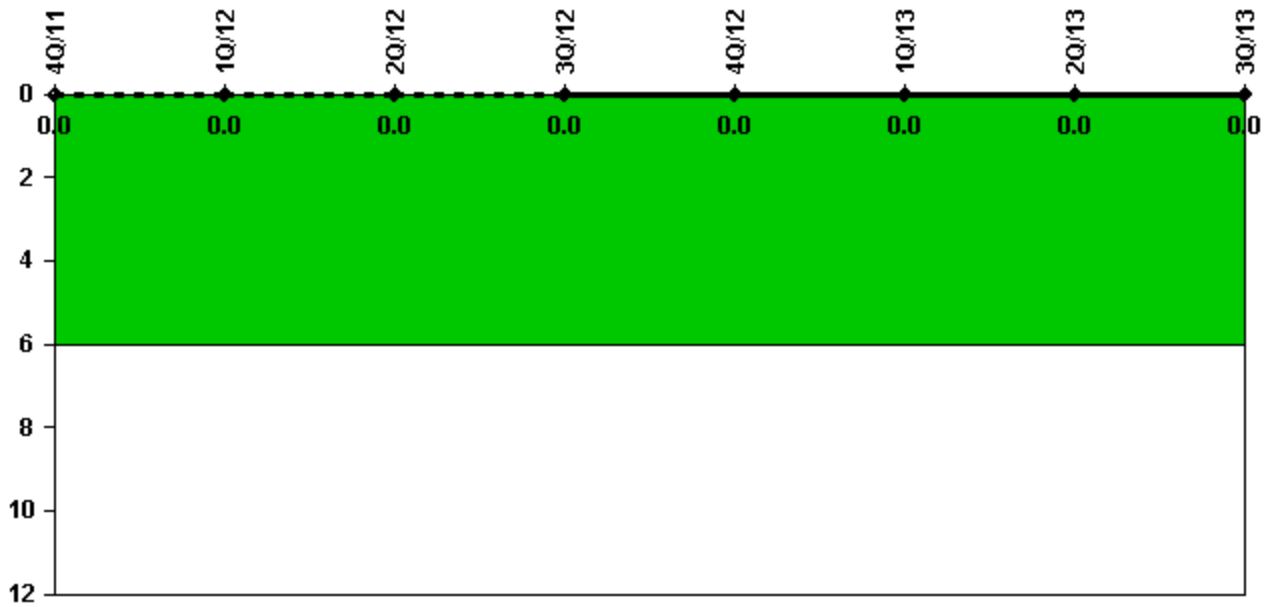
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2183.0	2184.0	2208.0	1452.1	2159.0	2184.0	2208.0
Indicator value	2.0	1.0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



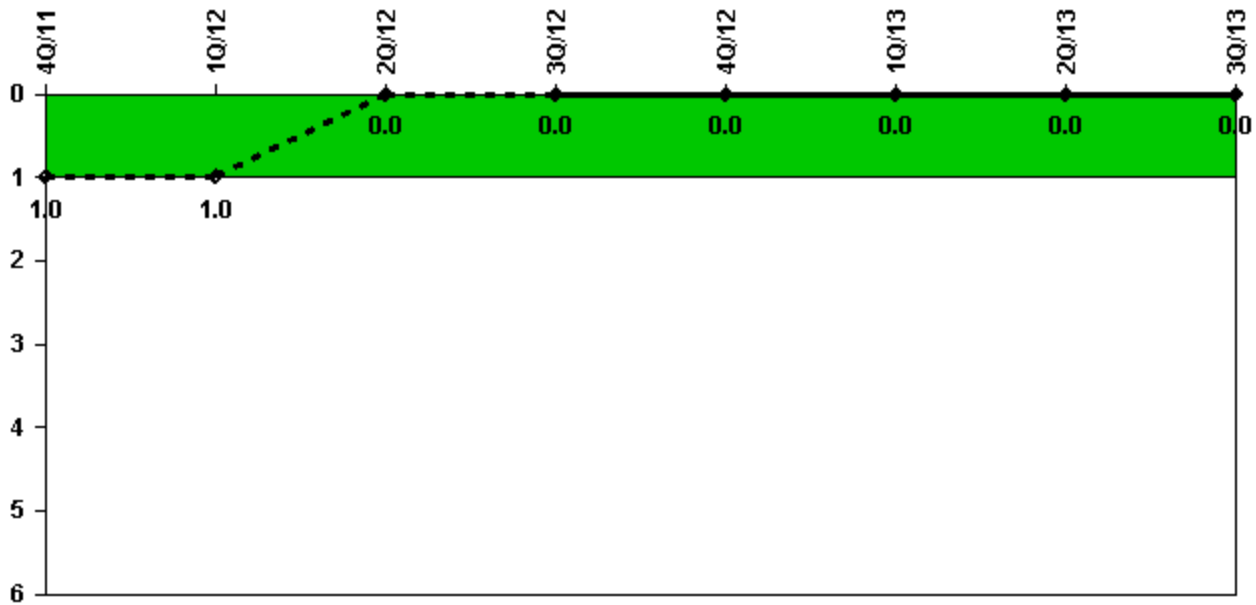
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	2183.0	2184.0	2208.0	1452.1	2159.0	2184.0	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



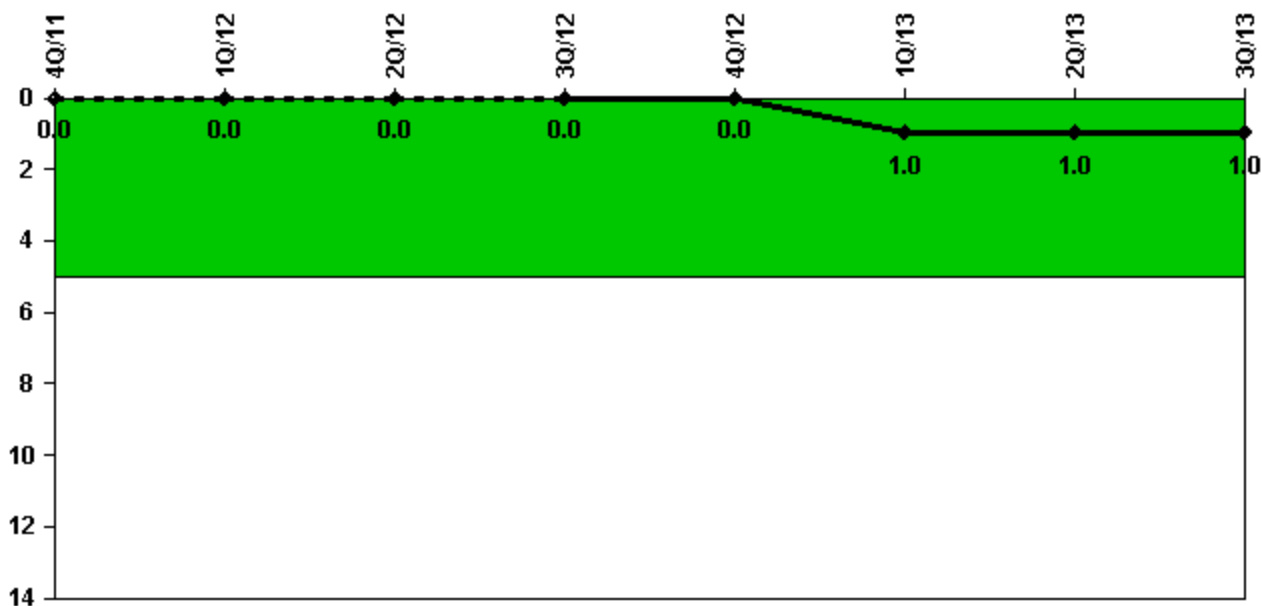
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/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

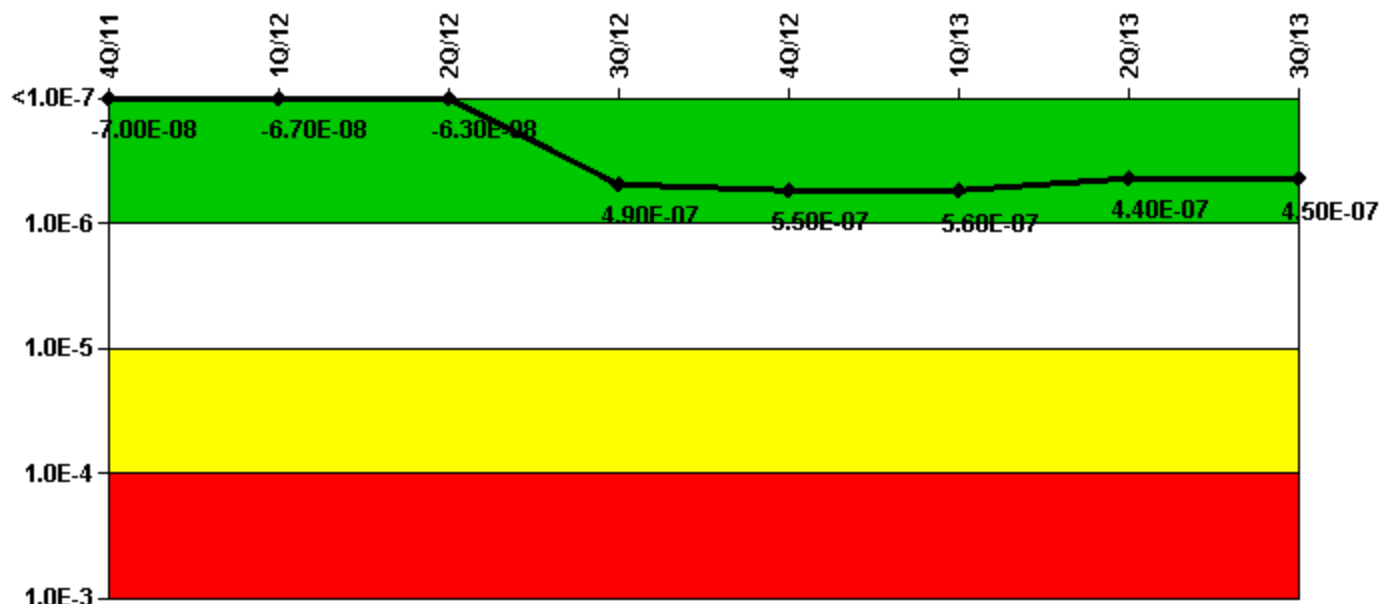
Notes

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)	-2.99E-09	-3.00E-09	-3.00E-09	4.58E-08	2.85E-08	3.22E-08	7.73E-09	6.83E-09
URI (ΔCDF)	-6.73E-08	-6.36E-08	-6.03E-08	4.44E-07	5.21E-07	5.27E-07	4.34E-07	4.39E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.00E-08	-6.70E-08	-6.30E-08	4.90E-07	5.50E-07	5.60E-07	4.40E-07	4.50E-07

Licensee Comments:

3Q/13: Risk Cap Invoked.

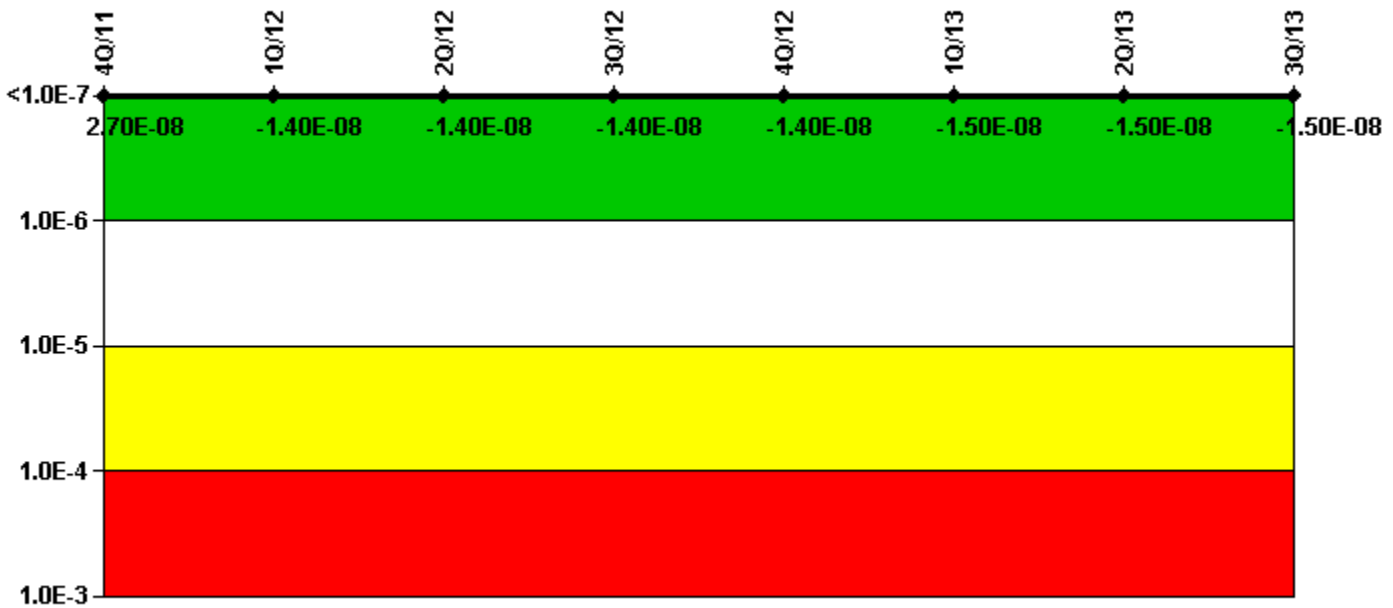
2Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked. An evaluation for an August run failure of #2 emergency diesel was completed. Therefore historical data for August 2012 was changed with no change in color.

3Q/12: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



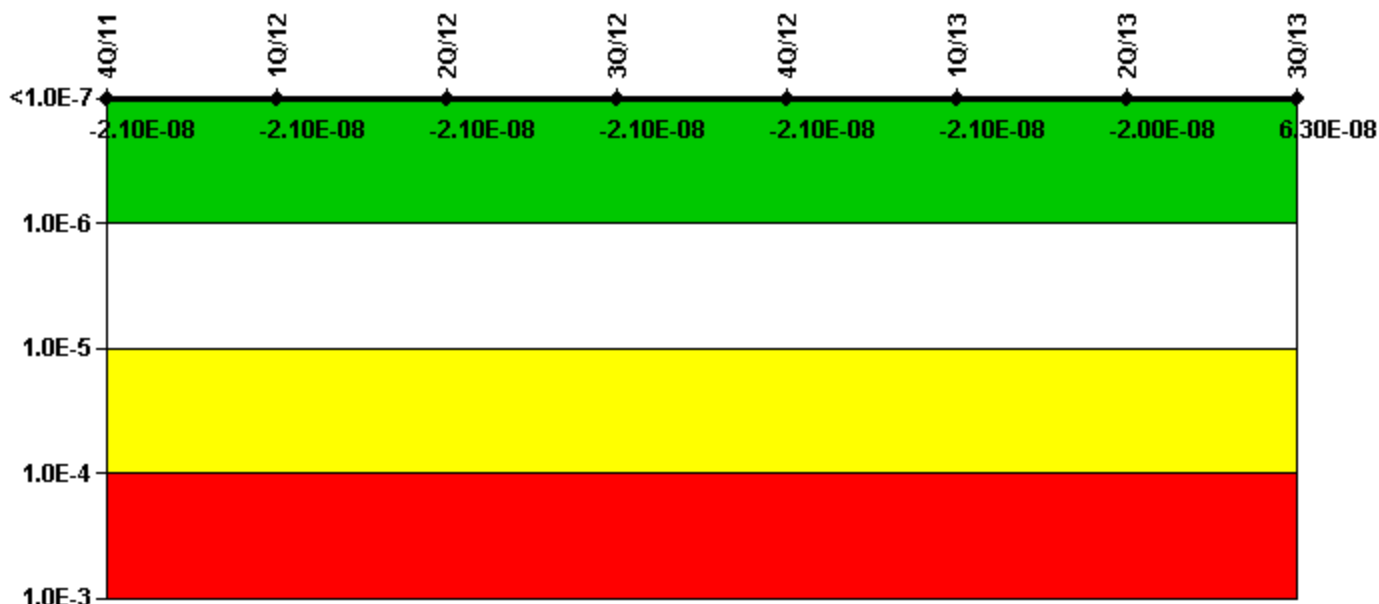
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	2.30E-09	1.95E-09	1.92E-09	1.32E-09	1.31E-09	-2.13E-10	2.17E-10	2.37E-10
URI (Δ CDF)	2.47E-08	-1.58E-08	-1.55E-08	-1.51E-08	-1.52E-08	-1.51E-08	-1.50E-08	-1.53E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.70E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.50E-08	-1.50E-08	-1.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



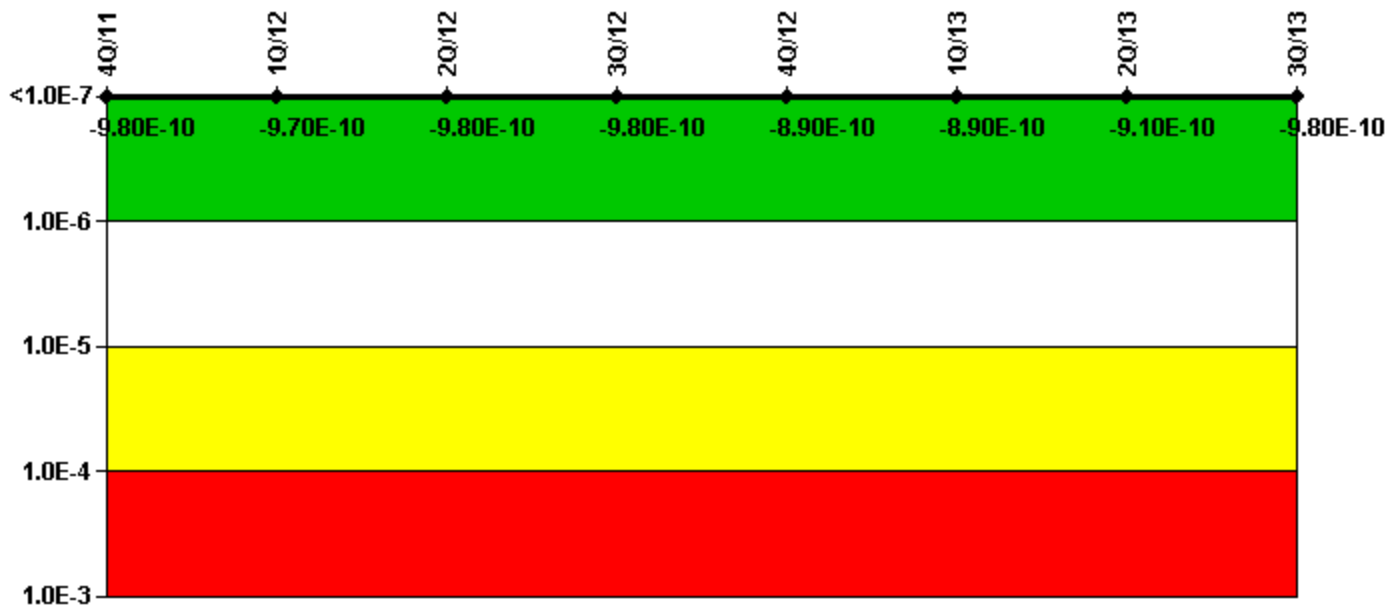
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	-5.77E-09	-5.77E-09	-5.72E-09	-5.69E-09	-5.68E-09	-5.68E-09	-4.23E-09	-2.97E-09
URI (Δ CDF)	-1.49E-08	-1.54E-08	-1.49E-08	-1.49E-08	-1.54E-08	-1.54E-08	-1.60E-08	6.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.00E-08	6.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



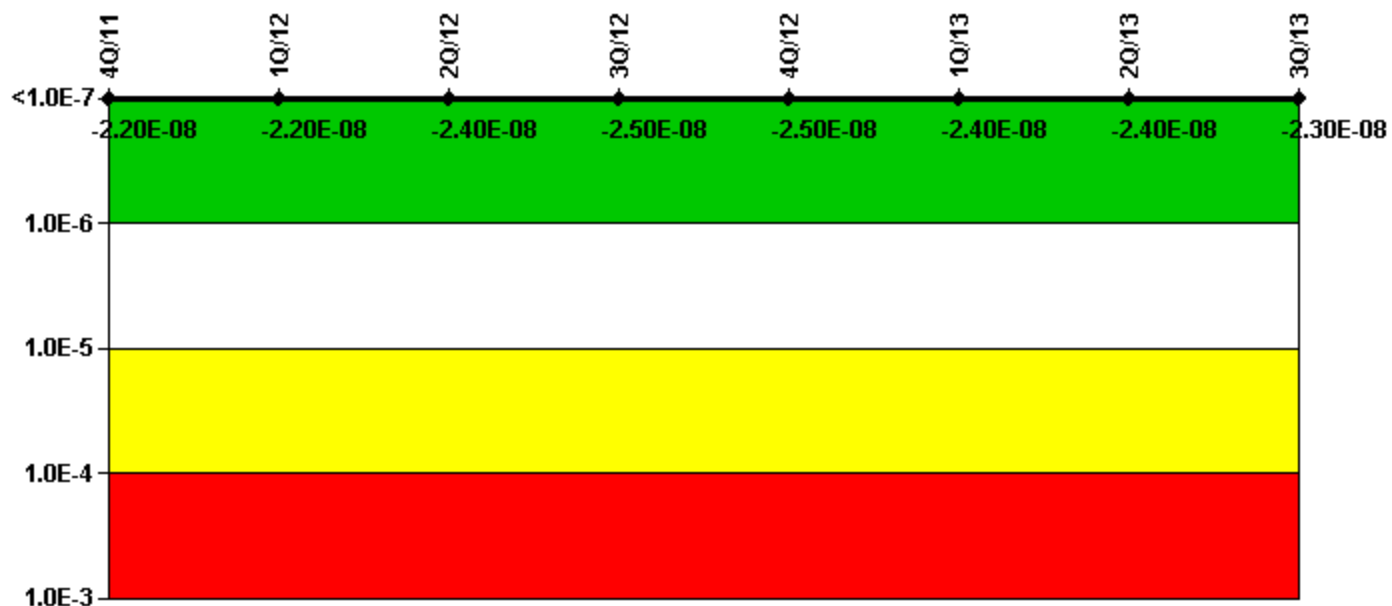
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.30E-10	1.53E-10	1.50E-10	1.46E-10	1.47E-10	1.47E-10	1.41E-10	7.80E-11
URI (Δ CDF)	-1.11E-09	-1.13E-09	-1.13E-09	-1.13E-09	-1.03E-09	-1.04E-09	-1.05E-09	-1.06E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.80E-10	-9.70E-10	-9.80E-10	-9.80E-10	-8.90E-10	-8.90E-10	-9.10E-10	-9.80E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



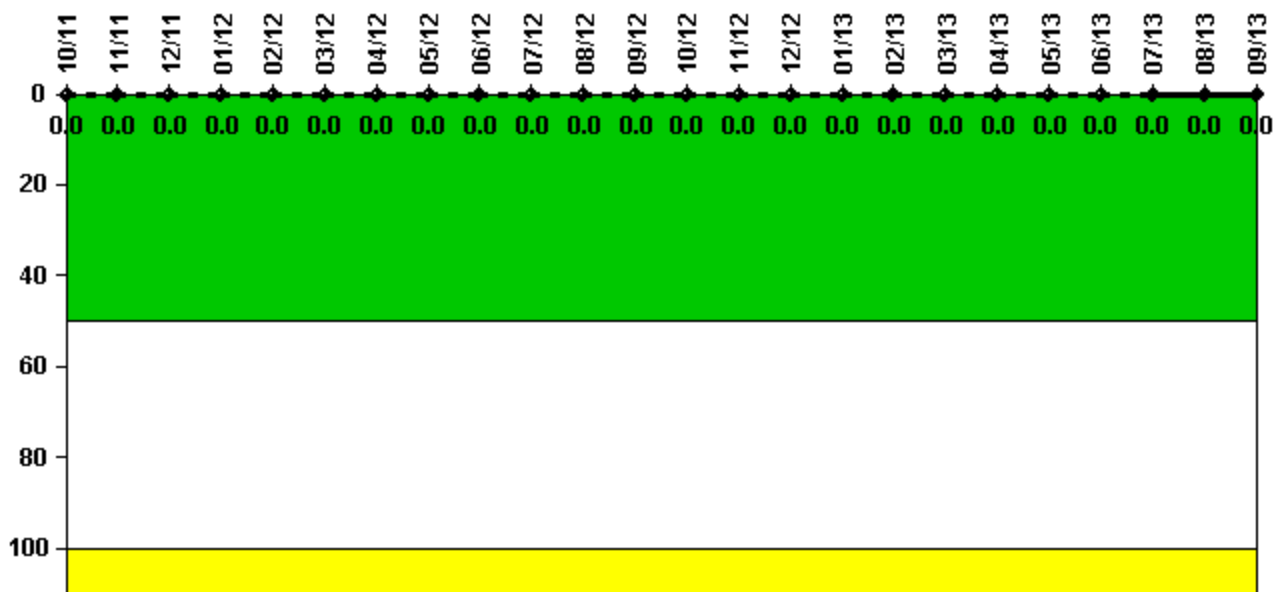
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	1.21E-09	1.01E-09	7.76E-13	-1.53E-09	-1.34E-09	-1.11E-09	-1.11E-09	-9.85E-10
URI (Δ CDF)	-2.31E-08	-2.35E-08	-2.37E-08	-2.39E-08	-2.34E-08	-2.32E-08	-2.27E-08	-2.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-08	-2.20E-08	-2.40E-08	-2.50E-08	-2.50E-08	-2.40E-08	-2.40E-08	-2.30E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

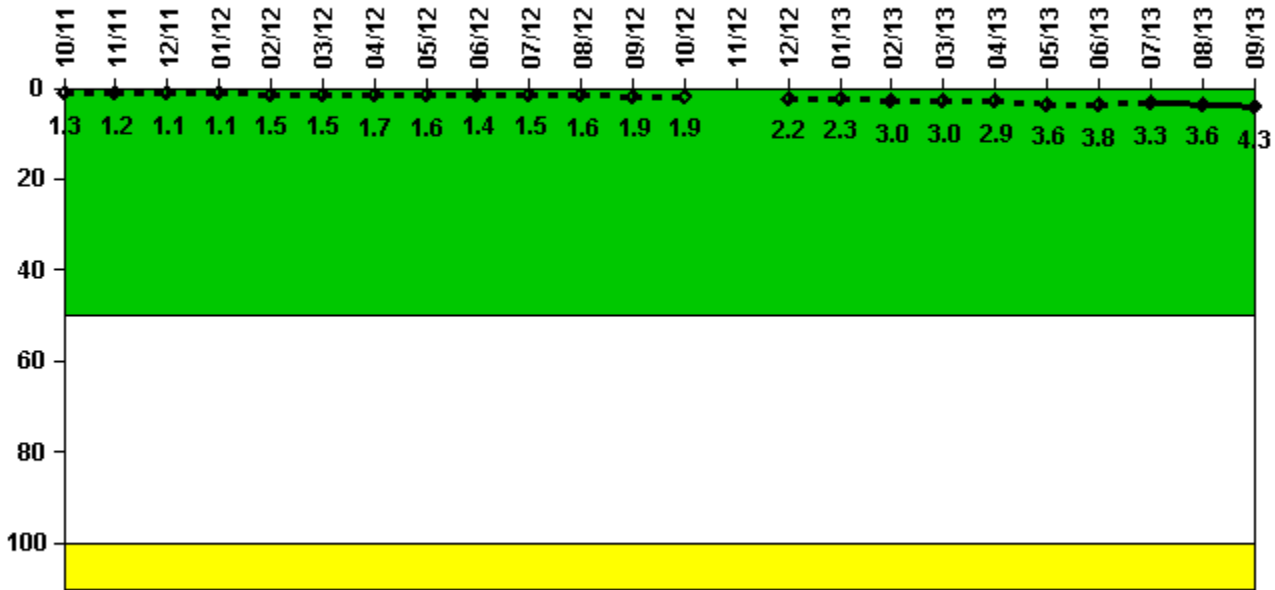
Notes

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	0.000155	0.000315	0.000198	0.000149	0.000196	0.000185	0.000231	0.000202	0.000165	0.000174	0.000202	0.000224
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum activity	0.000190	0.000180	0.000132	0.000100	0.000131	0.000105	0.000109	0.000120	0.000115	0.000116	0.000138	0.000130
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

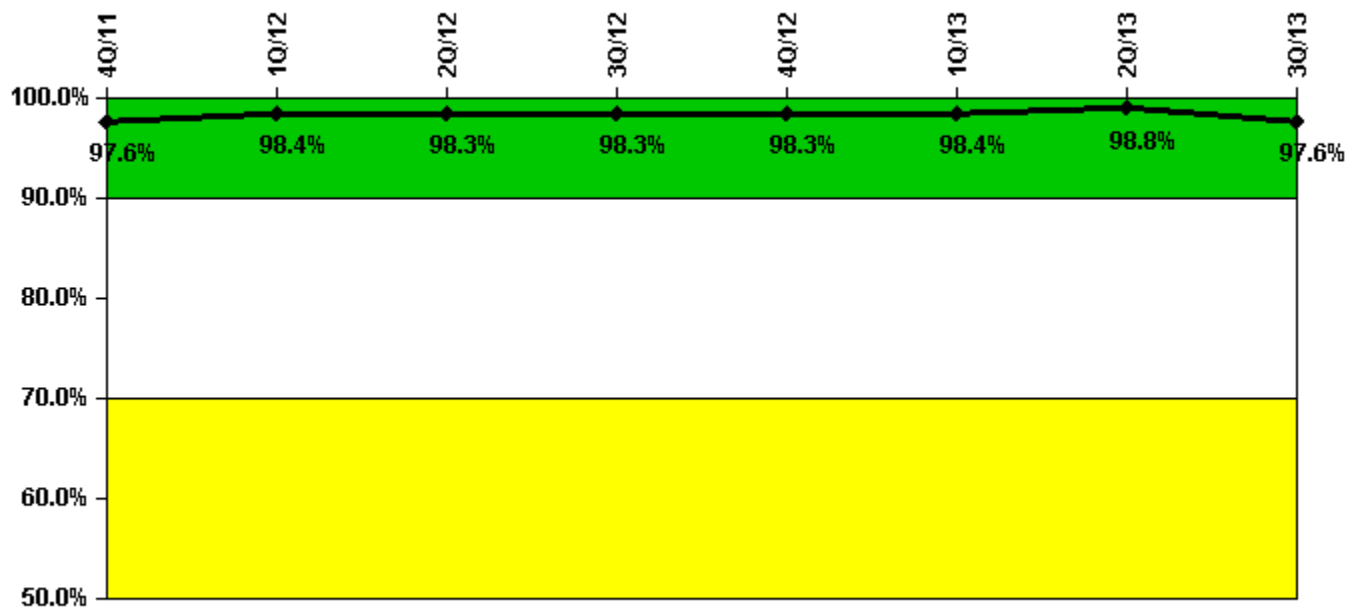
Notes

Reactor Coolant System Leakage	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum leakage	0.130	0.120	0.110	0.110	0.150	0.150	0.170	0.160	0.140	0.150	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	1.3	1.2	1.1	1.1	1.5	1.5	1.7	1.6	1.4	1.5	1.6	1.9
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	0.190	N/A	0.220	0.230	0.300	0.300	0.290	0.360	0.380	0.330	0.360	0.430
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.9	N/A	2.2	2.3	3.0	3.0	2.9	3.6	3.8	3.3	3.6	4.3

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September of 2012. The data has been corrected. This correction does not change the color of any performance indicators.

Drill/Exercise Performance



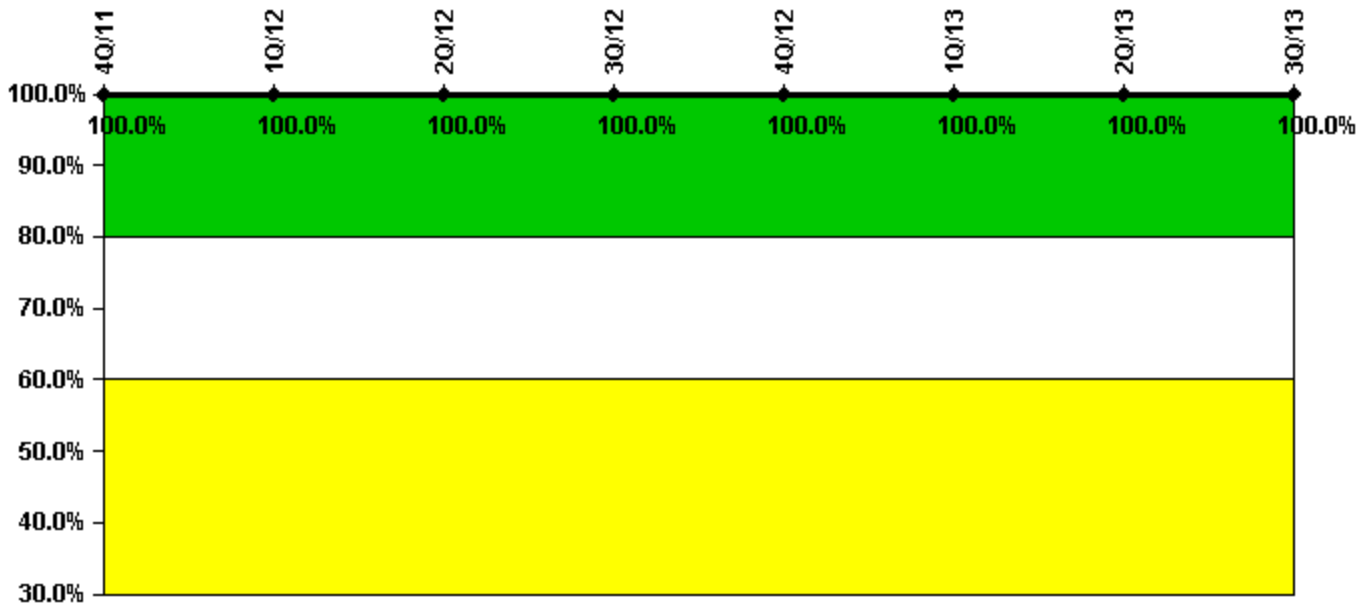
Thresholds: White < 90.0% Yellow < 70.0%

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



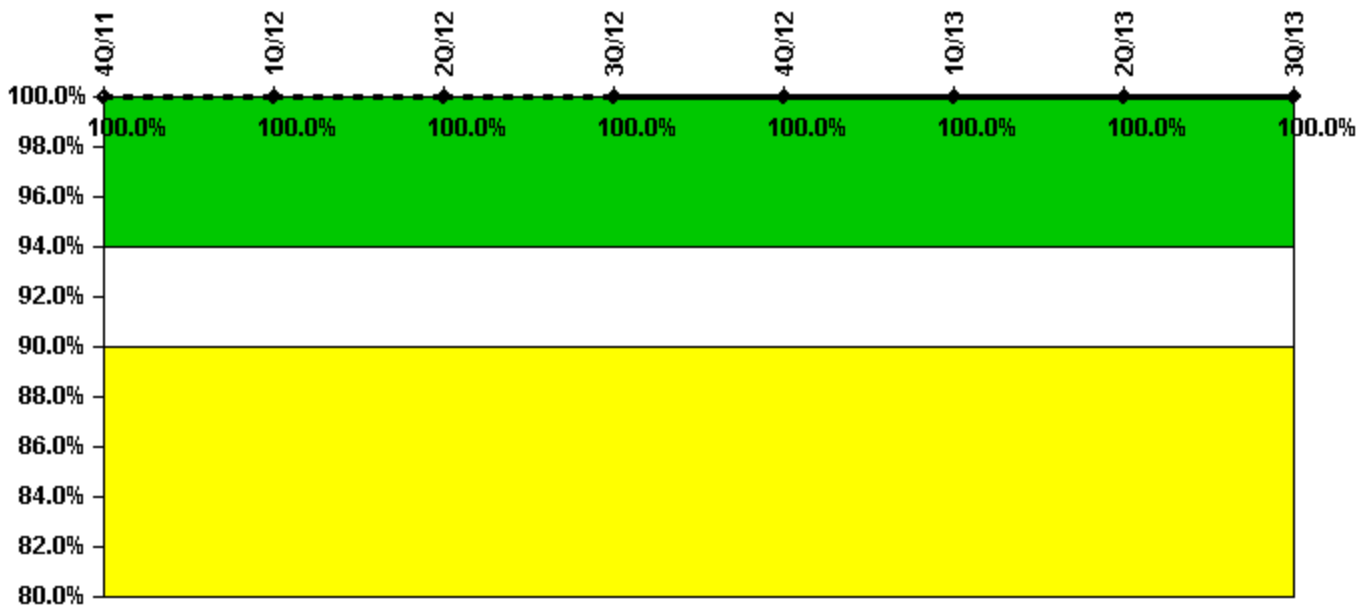
Thresholds: White < 80.0% Yellow < 60.0%

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



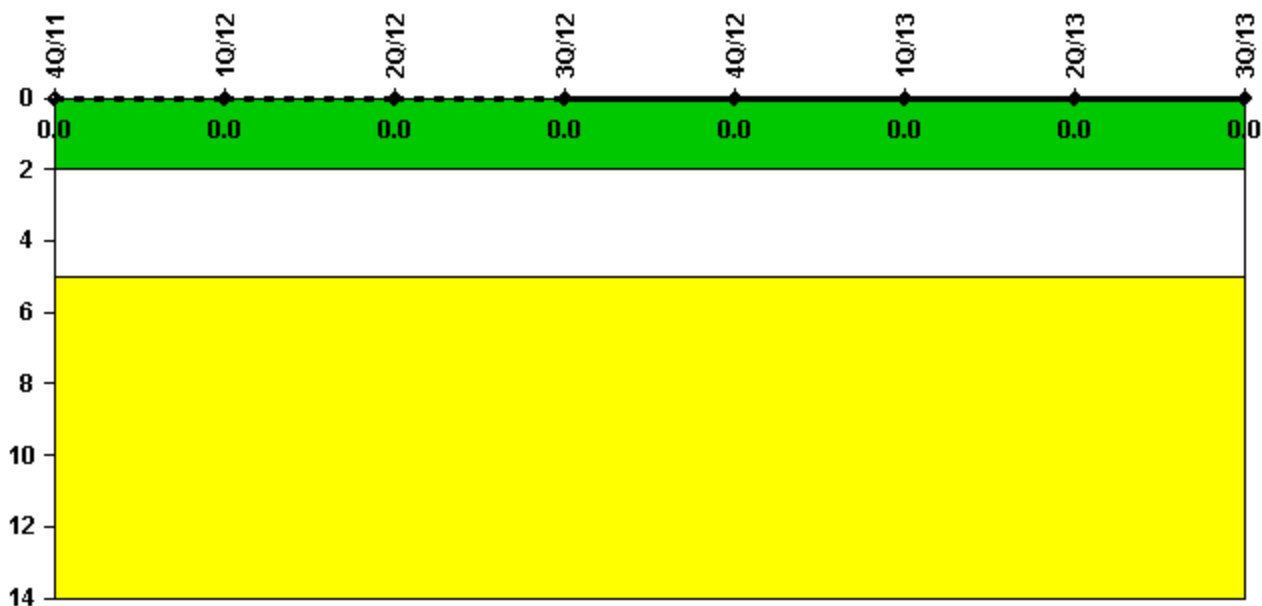
Thresholds: White < 94.0% Yellow < 90.0%

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



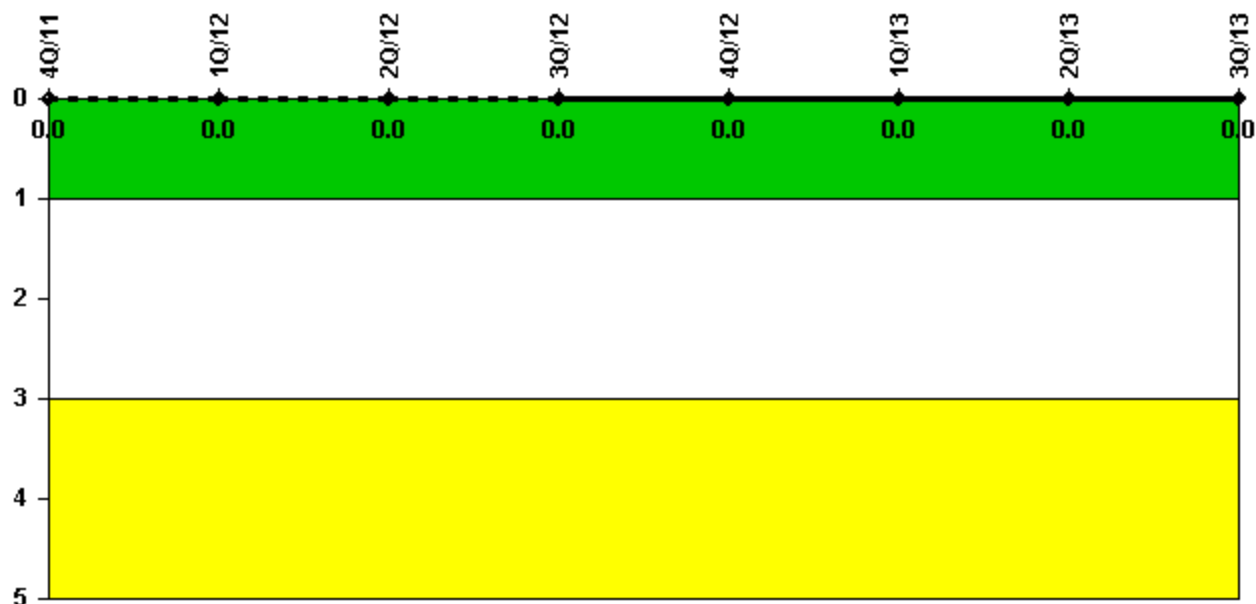
Thresholds: White > 2.0 Yellow > 5.0

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

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

Last Modified: October 22, 2013

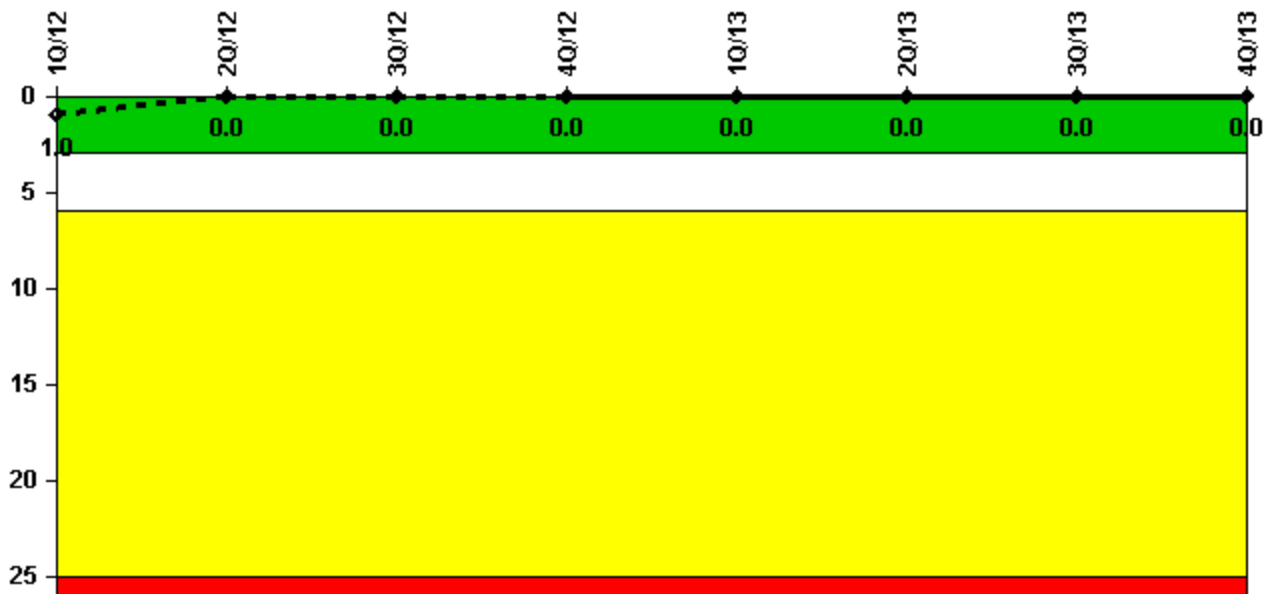
Surry 2

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



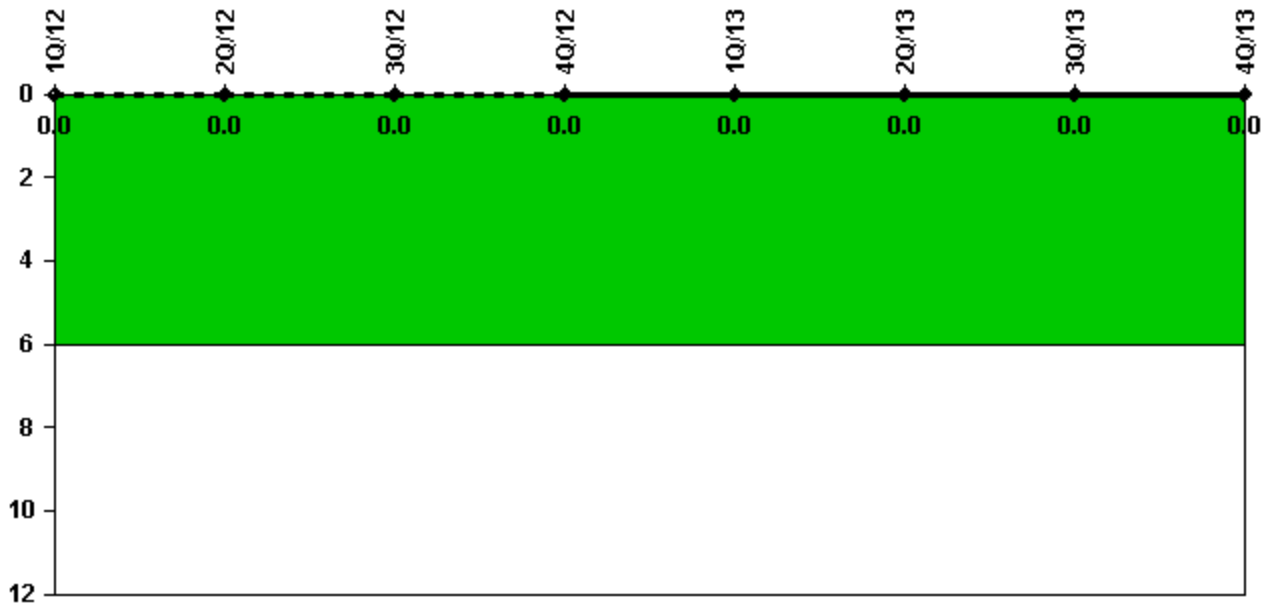
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	1452.1	2159.0	2184.0	2208.0	2209.0
Indicator value	1.0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



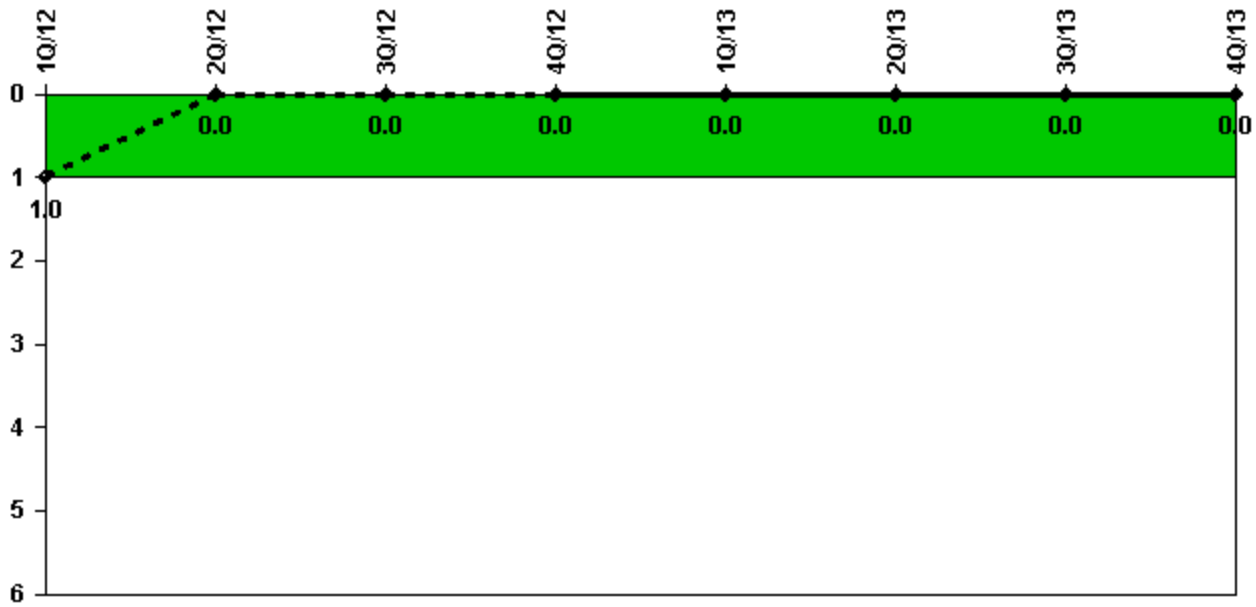
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	1452.1	2159.0	2184.0	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



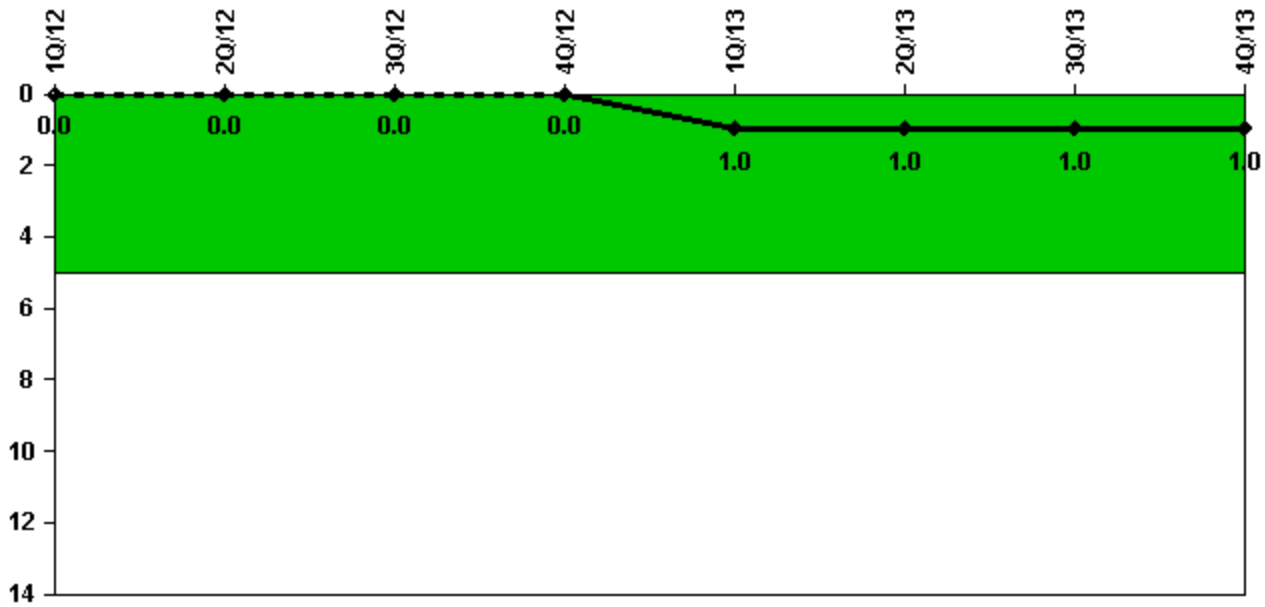
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/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

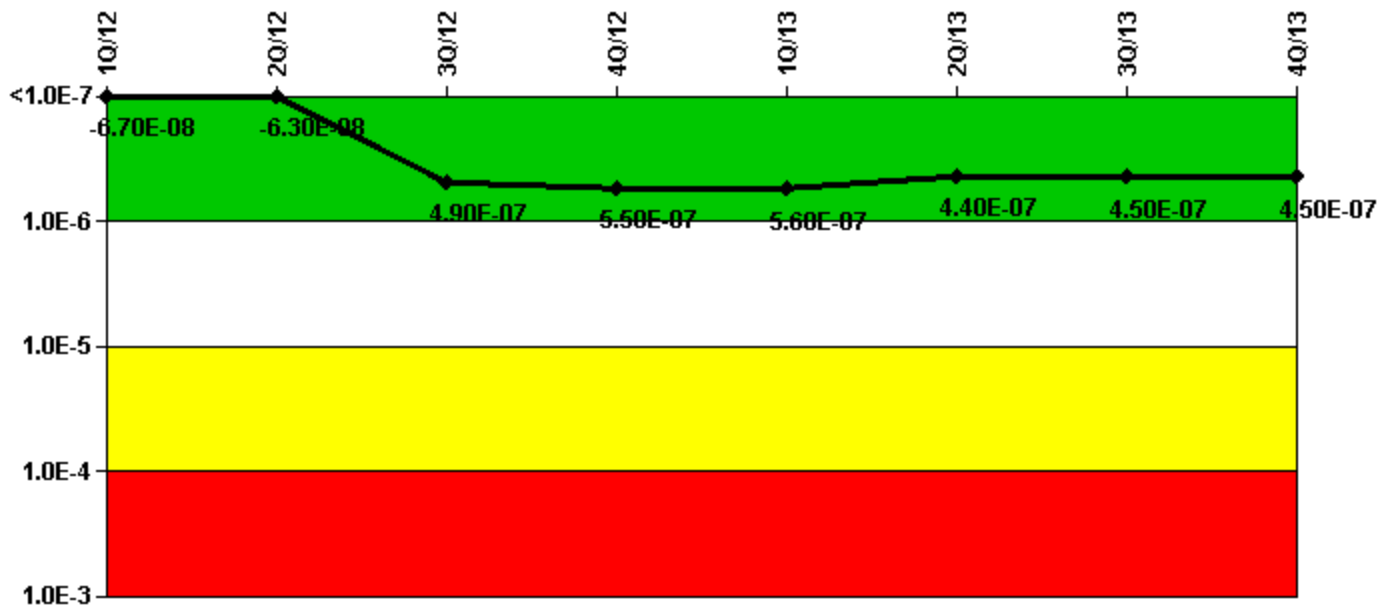
Notes

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)	-3.00E-09	-3.00E-09	4.58E-08	2.85E-08	3.22E-08	7.73E-09	6.83E-09	6.29E-09
URI (ΔCDF)	-6.36E-08	-6.03E-08	4.44E-07	5.21E-07	5.27E-07	4.34E-07	4.39E-07	4.47E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.70E-08	-6.30E-08	4.90E-07	5.50E-07	5.60E-07	4.40E-07	4.50E-07	4.50E-07

Licensee Comments:

4Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

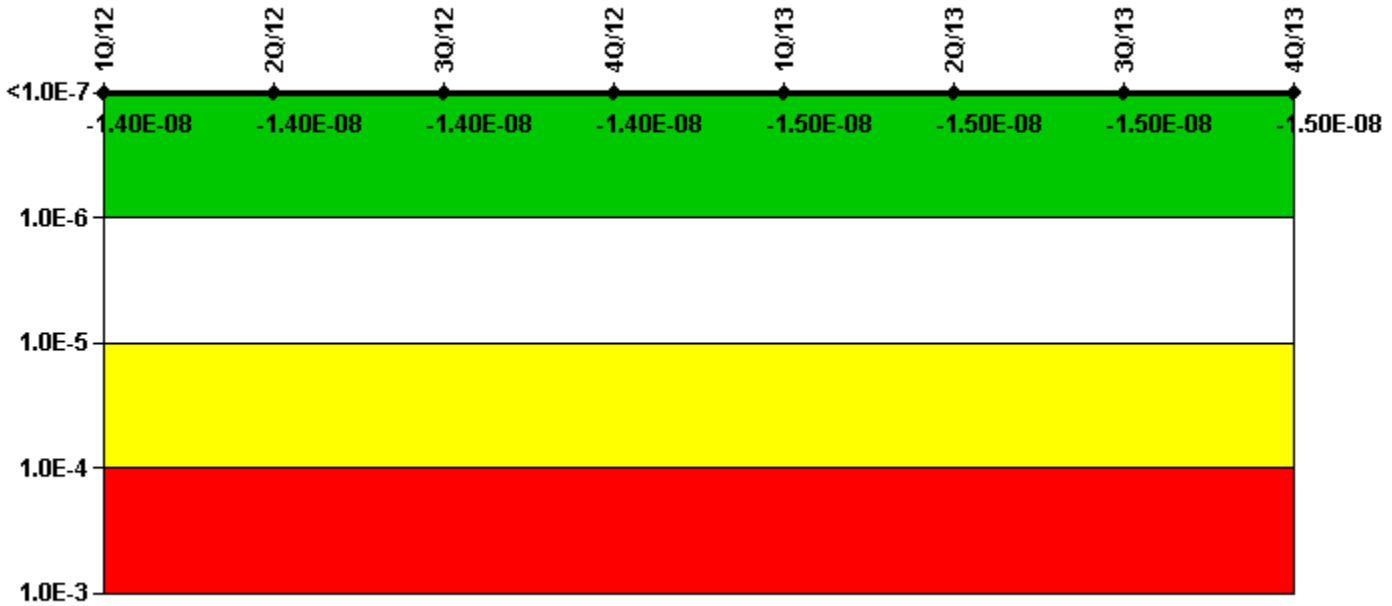
2Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked. An evaluation for an August run failure of #2 emergency diesel was completed. Therefore historical data for August 2012 was changed with no change in color.

3Q/12: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



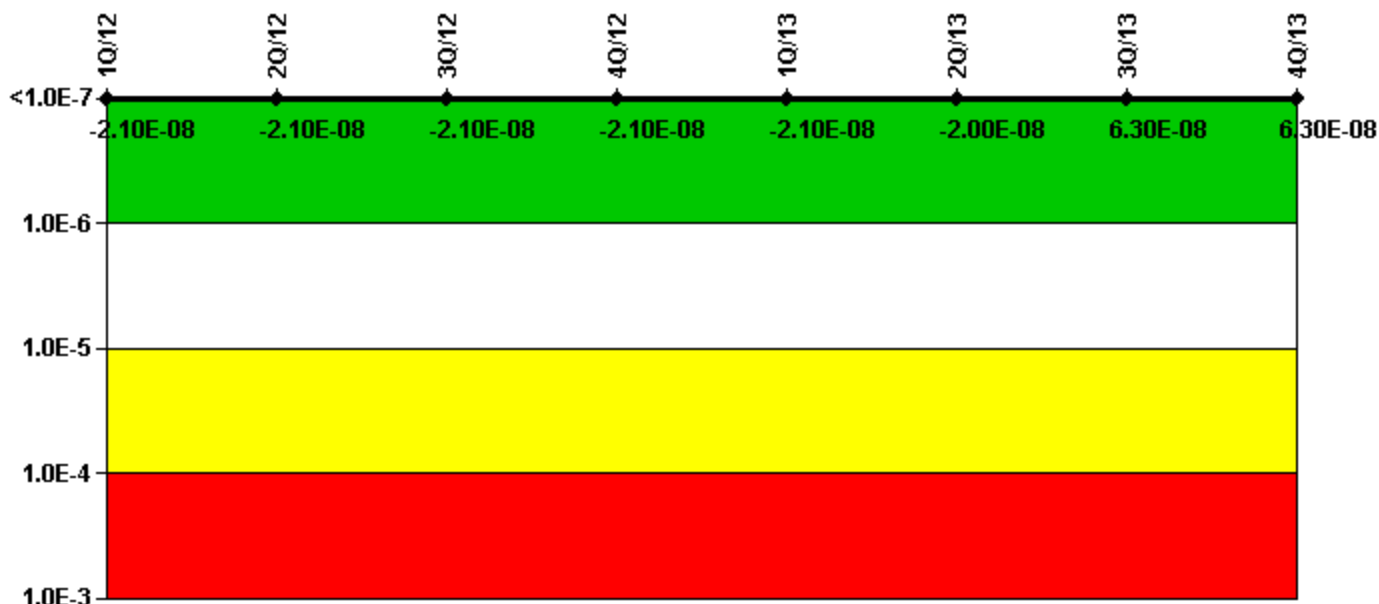
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	1.95E-09	1.92E-09	1.32E-09	1.31E-09	-2.13E-10	2.17E-10	2.37E-10	1.39E-10
URI (Δ CDF)	-1.58E-08	-1.55E-08	-1.51E-08	-1.52E-08	-1.51E-08	-1.50E-08	-1.53E-08	-1.52E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



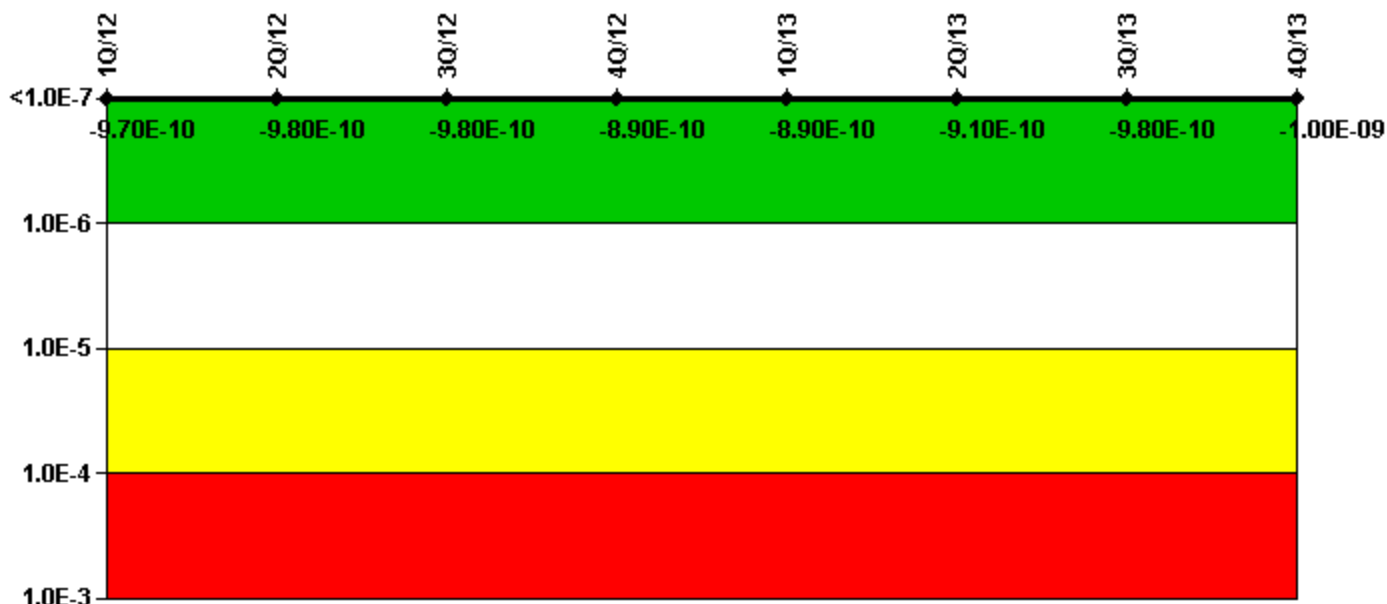
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-5.77E-09	-5.72E-09	-5.69E-09	-5.68E-09	-5.68E-09	-4.23E-09	-2.97E-09	-2.97E-09
URI (Δ CDF)	-1.54E-08	-1.49E-08	-1.49E-08	-1.54E-08	-1.54E-08	-1.60E-08	6.62E-08	6.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.00E-08	6.30E-08	6.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



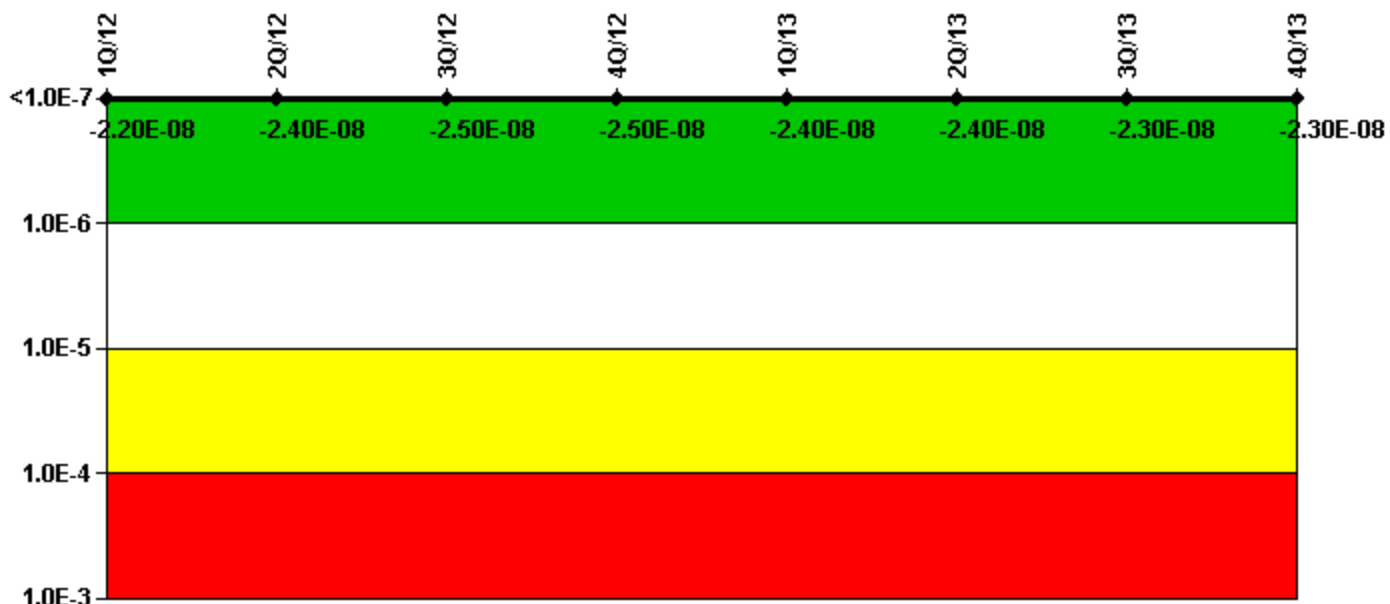
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	1.53E-10	1.50E-10	1.46E-10	1.47E-10	1.47E-10	1.41E-10	7.80E-11	6.15E-11
URI (Δ CDF)	-1.13E-09	-1.13E-09	-1.13E-09	-1.03E-09	-1.04E-09	-1.05E-09	-1.06E-09	-1.07E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.70E-10	-9.80E-10	-9.80E-10	-8.90E-10	-8.90E-10	-9.10E-10	-9.80E-10	-1.00E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



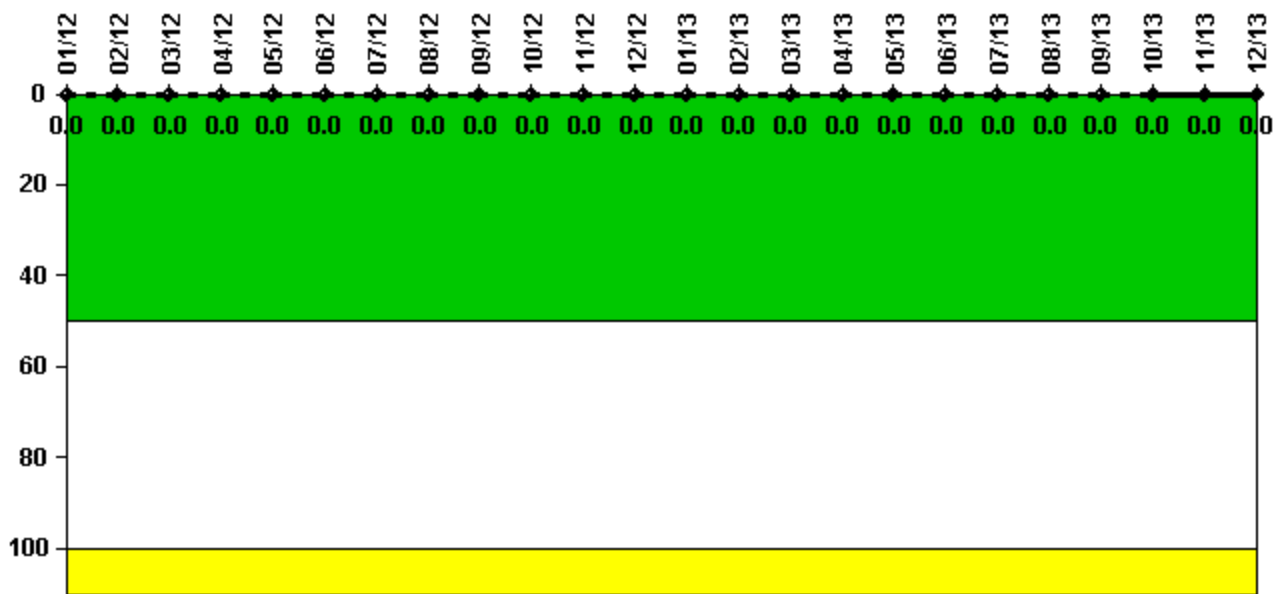
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	1.01E-09	7.76E-13	-1.53E-09	-1.34E-09	-1.11E-09	-1.11E-09	-9.85E-10	-1.55E-09
URI (Δ CDF)	-2.35E-08	-2.37E-08	-2.39E-08	-2.34E-08	-2.32E-08	-2.27E-08	-2.25E-08	-2.18E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-08	-2.40E-08	-2.50E-08	-2.50E-08	-2.40E-08	-2.40E-08	-2.30E-08	-2.30E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

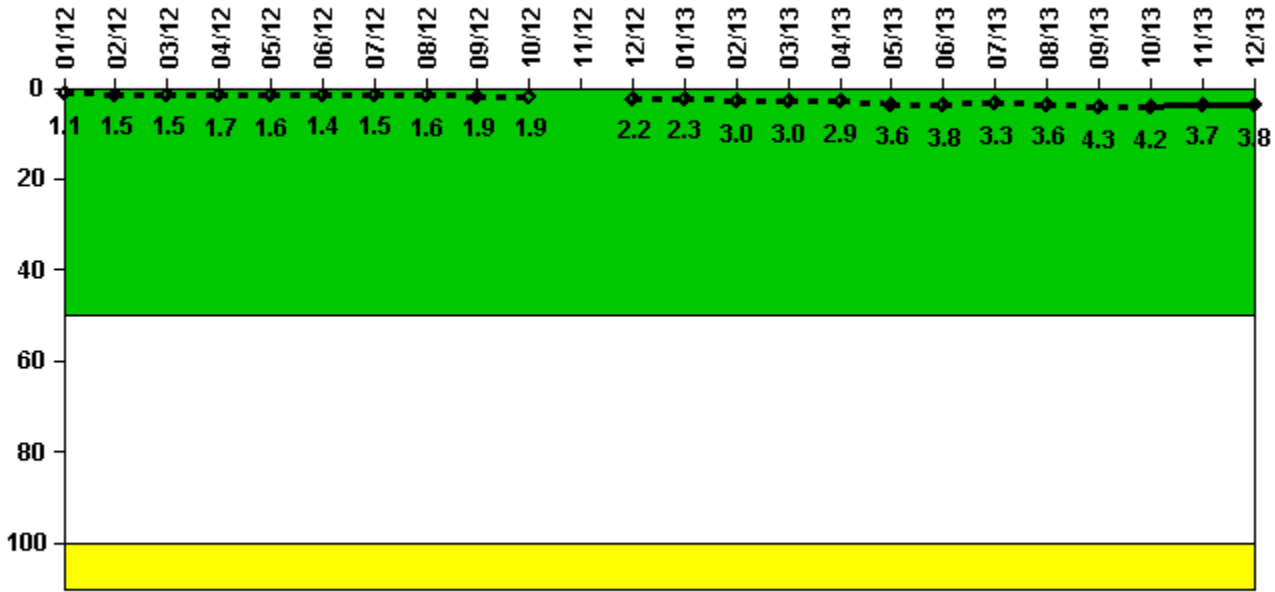
Notes

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	0.000149	0.000196	0.000185	0.000231	0.000202	0.000165	0.000174	0.000202	0.000224	0.000190	0.000180	0.000132
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum activity	0.000100	0.000131	0.000105	0.000109	0.000120	0.000115	0.000116	0.000138	0.000130	0.000126	0.000230	0.000132
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

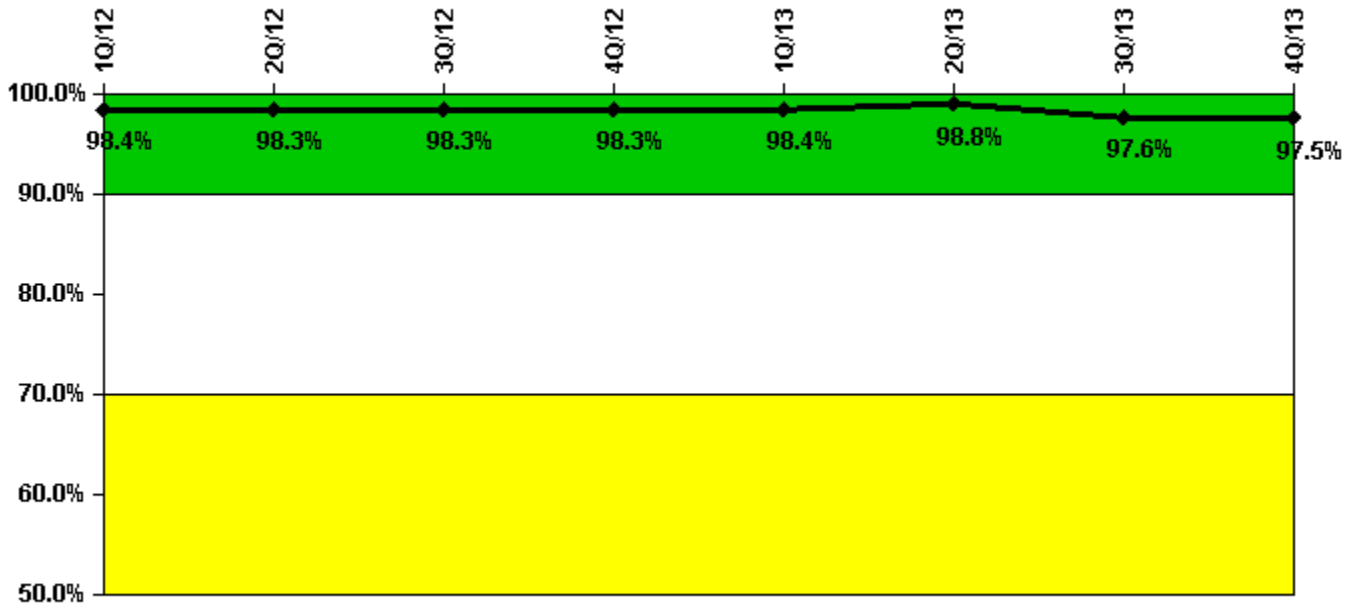
Notes

Reactor Coolant System Leakage	1/12	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	0.150	0.150	0.170	0.160	0.140	0.150	0.160	0.190	0.190	N/A	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	1.1	1.5	1.5	1.7	1.6	1.4	1.5	1.6	1.9	1.9	N/A	2.2
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	0.230	0.300	0.300	0.290	0.360	0.380	0.330	0.360	0.430	0.420	0.370	0.380
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.3	3.0	3.0	2.9	3.6	3.8	3.3	3.6	4.3	4.2	3.7	3.8

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September of 2012. The data has been corrected. This correction does not change the color of any performance indicators.

Drill/Exercise Performance



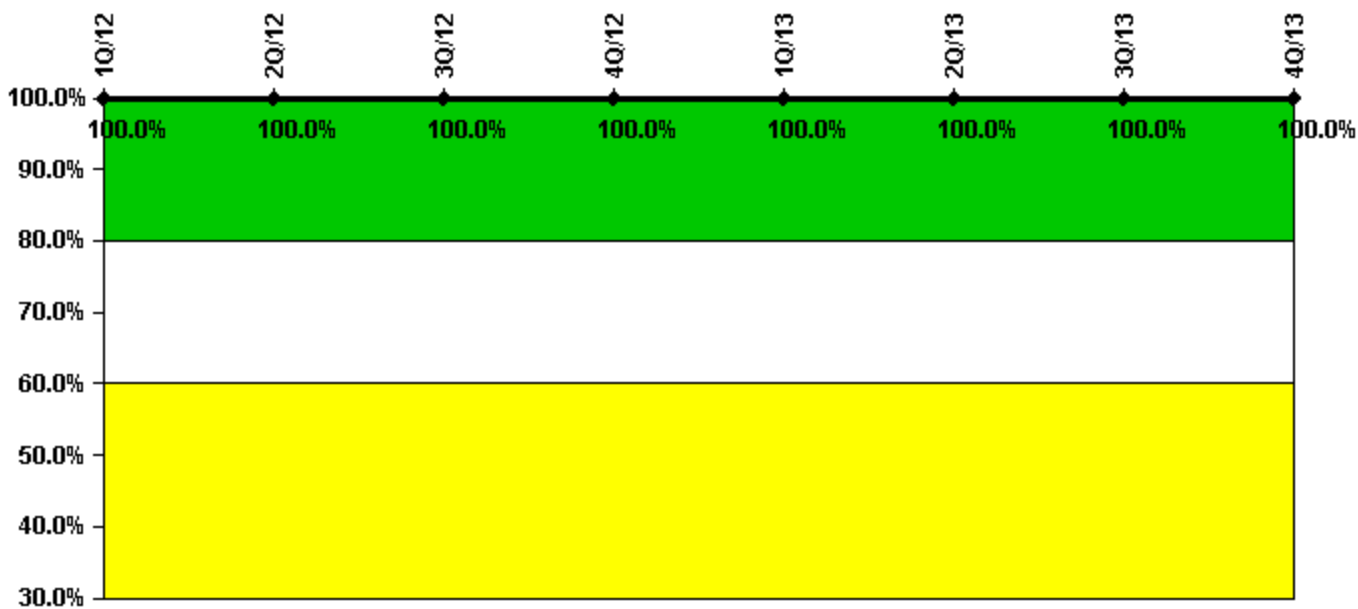
Thresholds: White < 90.0% Yellow < 70.0%

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



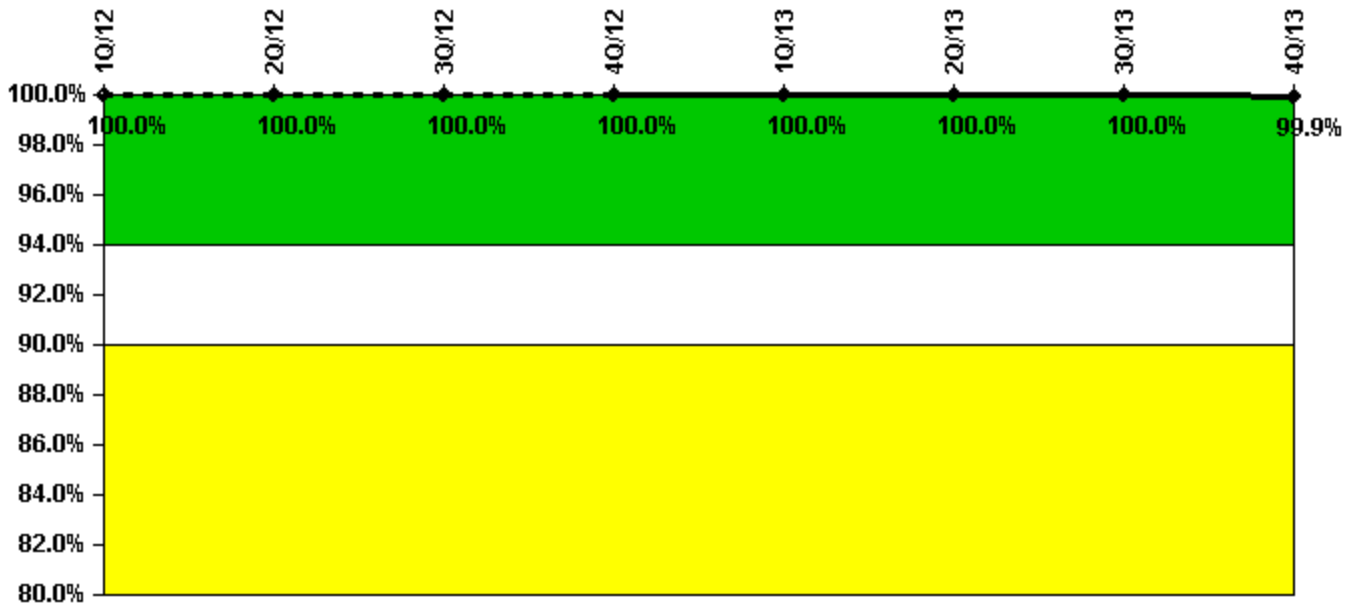
Thresholds: White < 80.0% Yellow < 60.0%

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



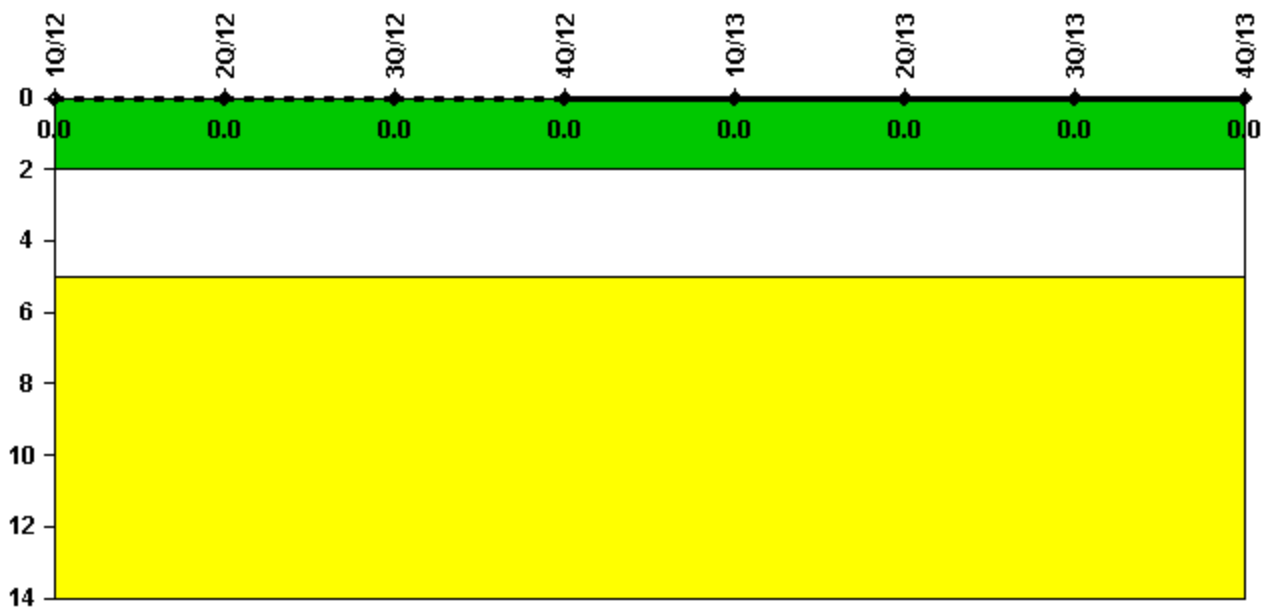
Thresholds: White < 94.0% Yellow < 90.0%

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



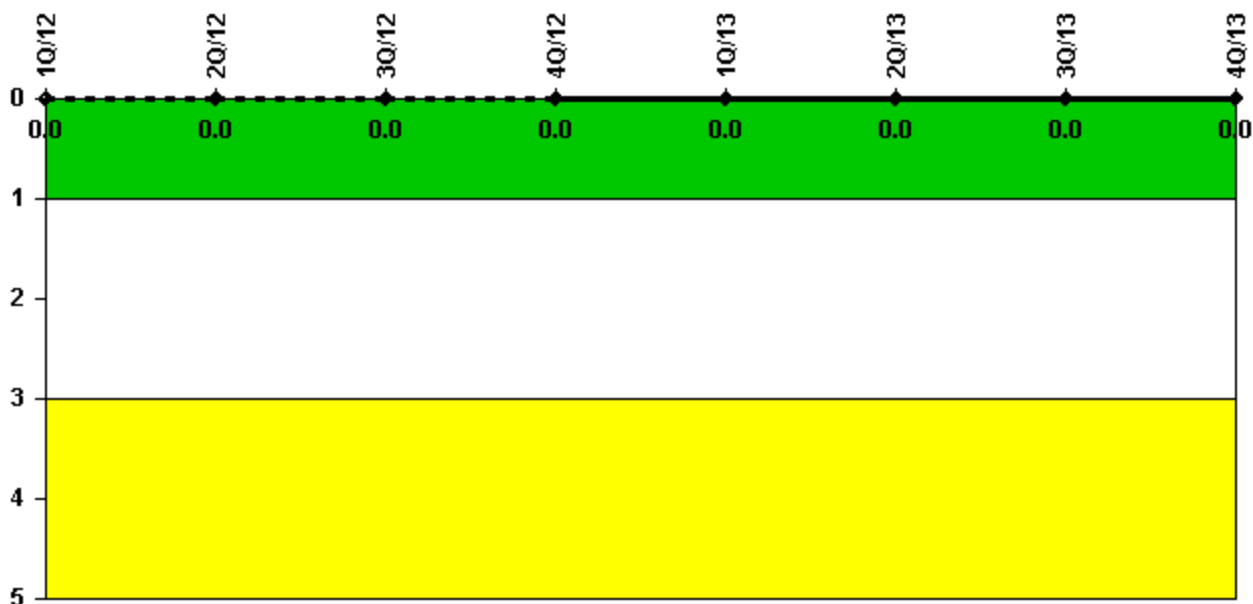
Thresholds: White > 2.0 Yellow > 5.0

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

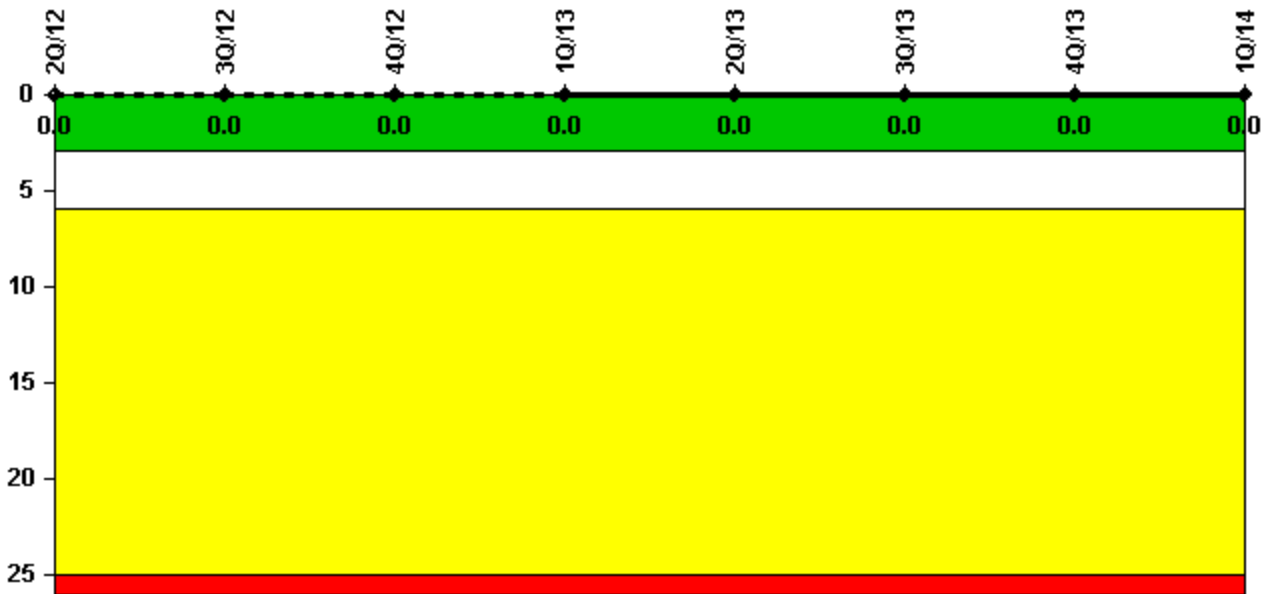
Surry 2

1Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



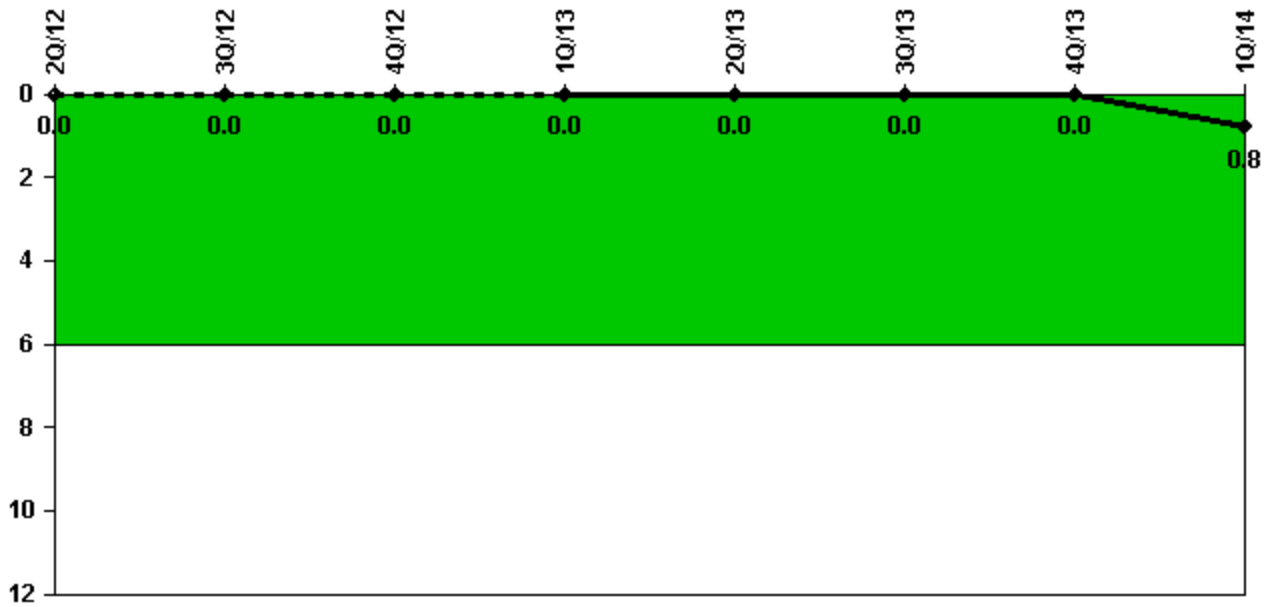
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	1452.1	2159.0	2184.0	2208.0	2209.0	2107.4
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



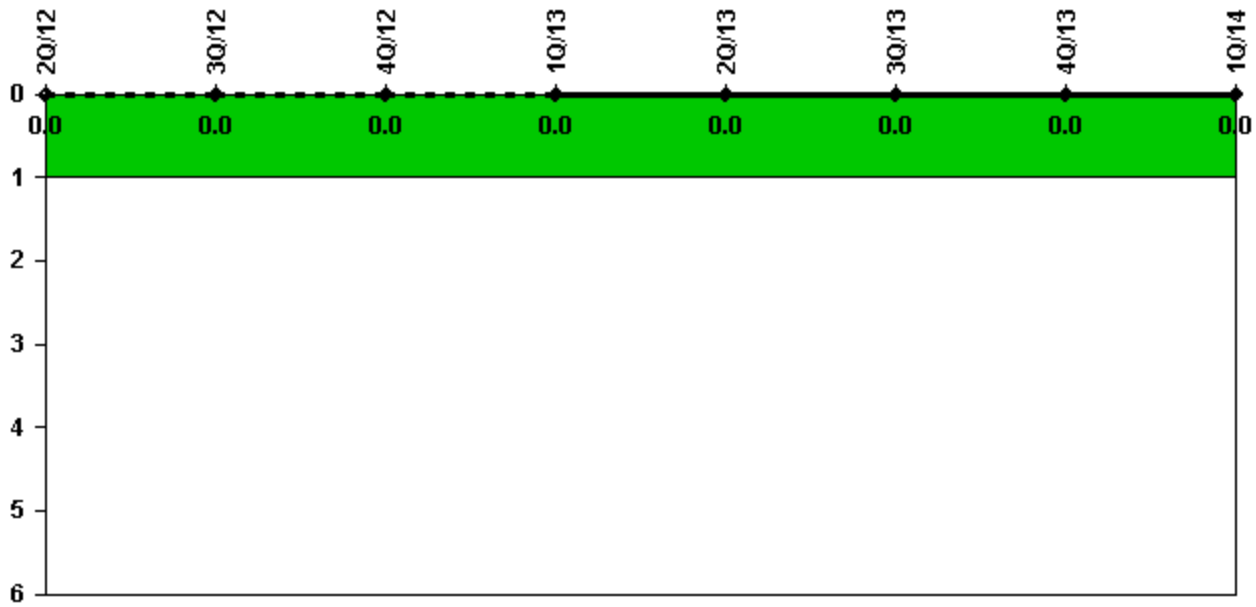
Thresholds: White > 6.0

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	0	0	0	0	0	1.0
Critical hours	2184.0	2208.0	1452.1	2159.0	2184.0	2208.0	2209.0	2107.4
Indicator value	0	0	0	0	0	0	0	0.8

Licensee Comments: none

Unplanned Scrams with Complications



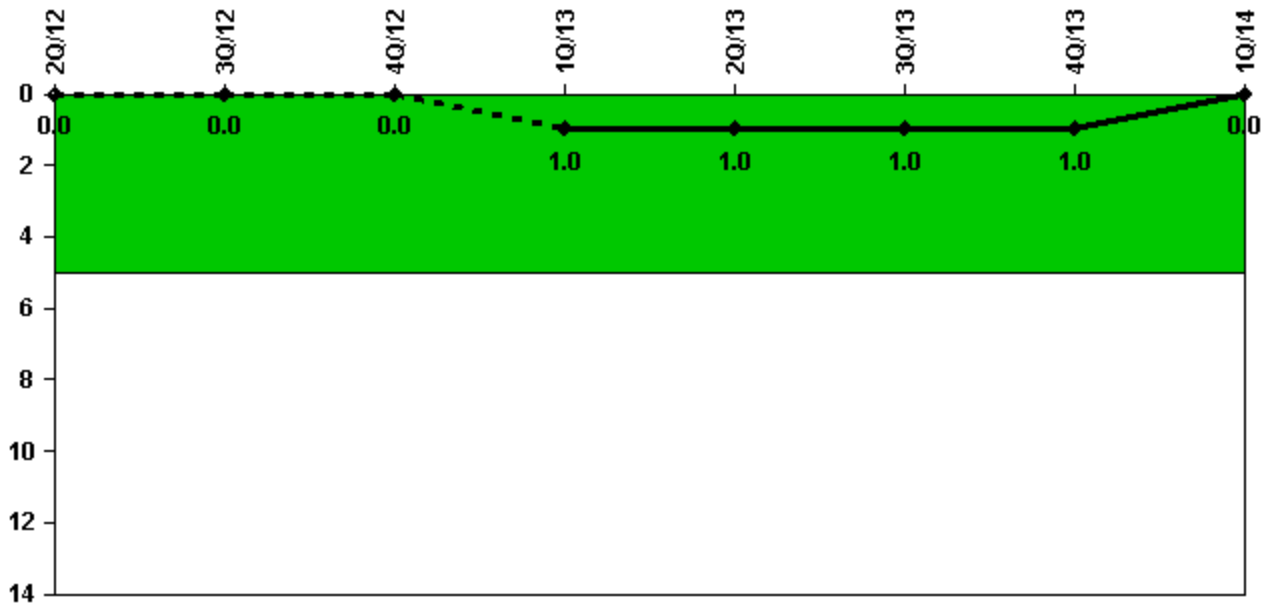
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	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

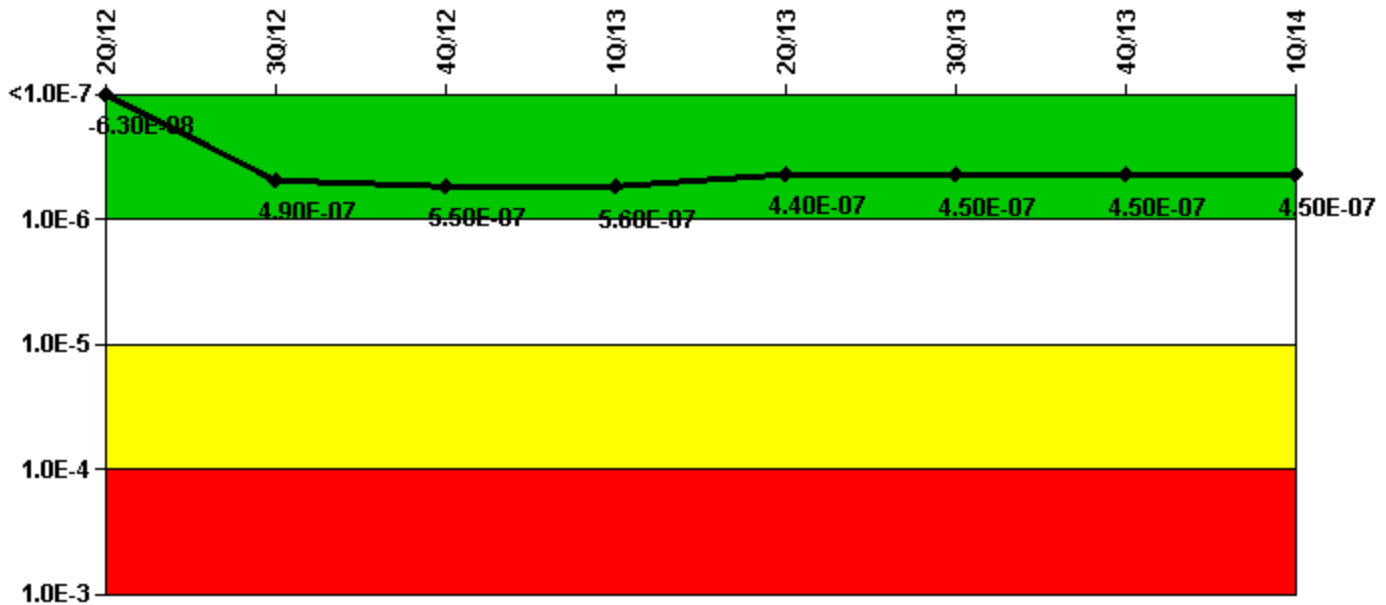
Notes

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)	-3.00E-09	4.58E-08	2.92E-08	3.29E-08	8.40E-09	7.50E-09	6.96E-09	5.58E-09
URI (ΔCDF)	-6.03E-08	4.44E-07	5.21E-07	5.27E-07	4.34E-07	4.39E-07	4.47E-07	4.49E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.30E-08	4.90E-07	5.50E-07	5.60E-07	4.40E-07	4.50E-07	4.50E-07	4.50E-07

Licensee Comments:

1Q/14: Risk Cap Invoked. An assessment determined unavailable hours for December 2012 were not correct. Historical data was corrected with no change in color.

4Q/13: Risk Cap Invoked.

4Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

2Q/13: Risk Cap Invoked.

2Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked.

4Q/12: Risk Cap Invoked. An evaluation for an August run failure of #2 emergency diesel was completed. Therefore historical data for August 2012 was changed with no change in color.

3Q/12: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



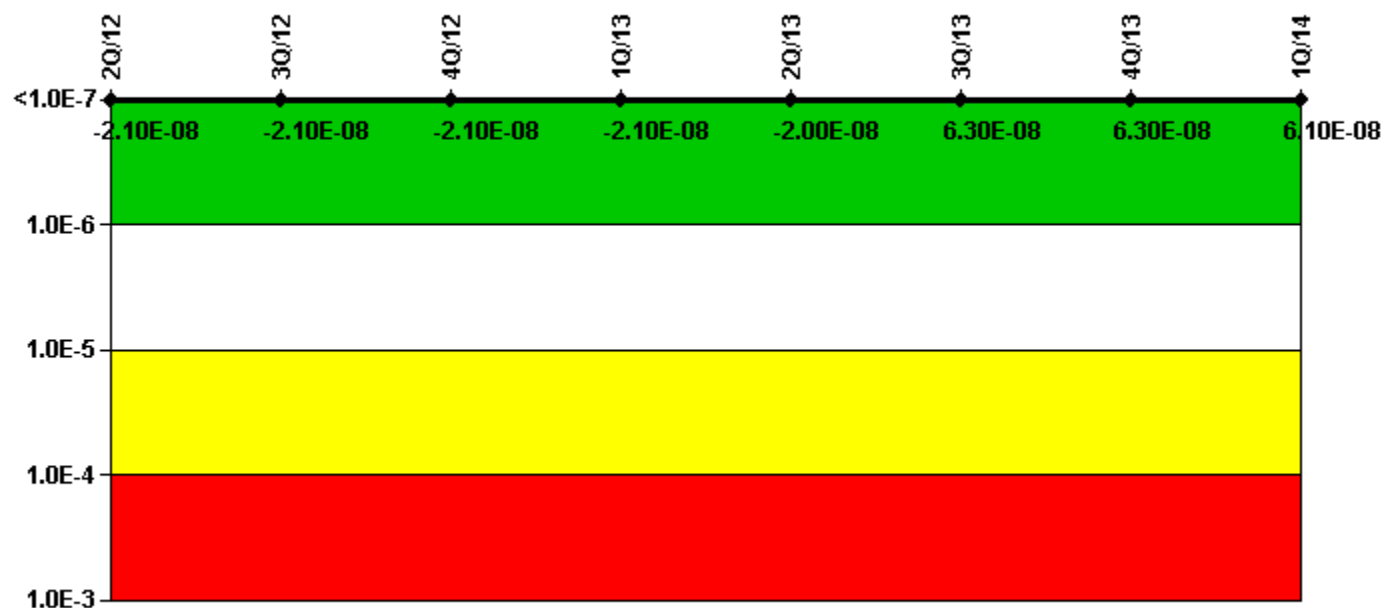
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (Δ CDF)	1.92E-09	1.32E-09	1.31E-09	-2.13E-10	2.17E-10	2.37E-10	1.39E-10	4.53E-10
URI (Δ CDF)	-1.55E-08	-1.51E-08	-1.52E-08	-1.51E-08	-1.50E-08	-1.53E-08	-1.52E-08	-1.51E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	-1.40E-08	-1.40E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



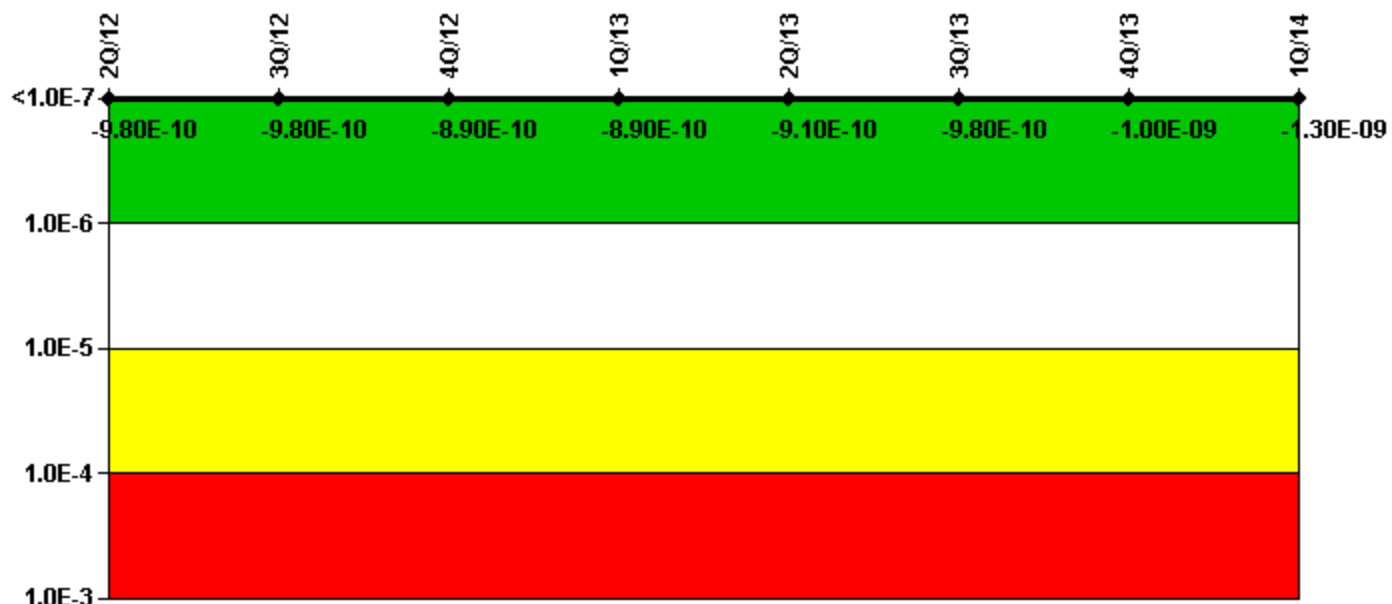
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (Δ CDF)	-5.72E-09	-5.69E-09	-5.68E-09	-5.68E-09	-4.23E-09	-2.97E-09	-2.97E-09	-3.23E-09
URI (Δ CDF)	-1.49E-08	-1.49E-08	-1.54E-08	-1.54E-08	-1.60E-08	6.62E-08	6.62E-08	6.46E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.00E-08	6.30E-08	6.30E-08	6.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



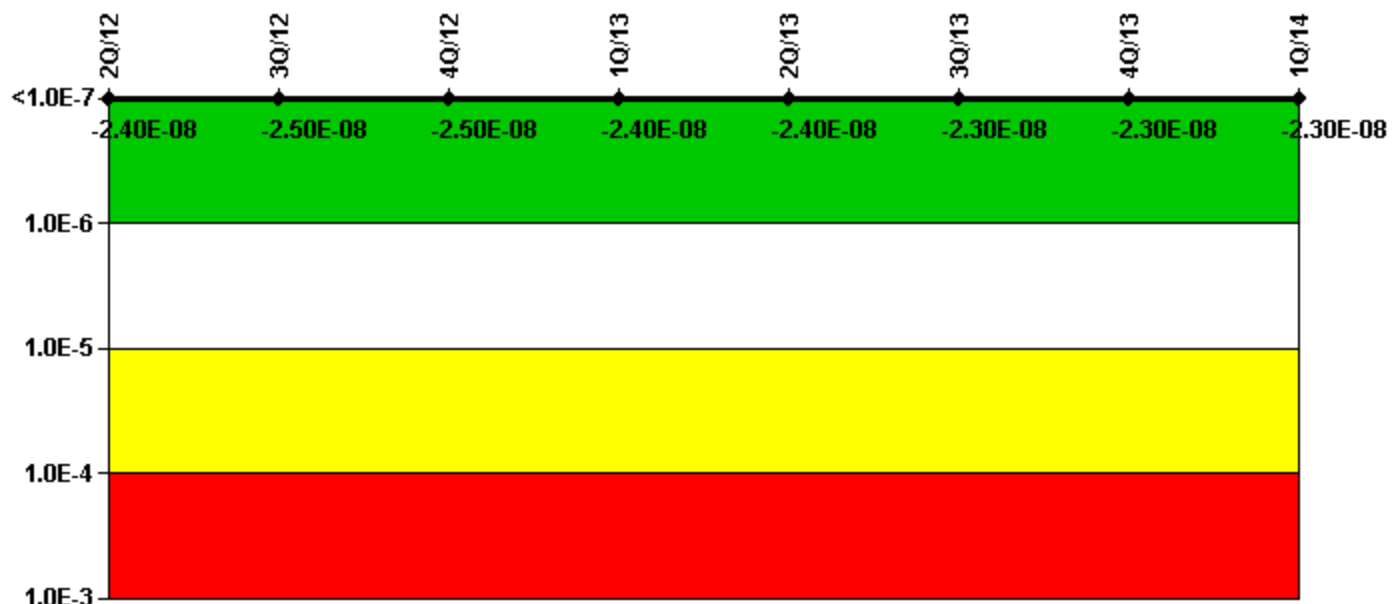
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (Δ CDF)	1.50E-10	1.46E-10	1.47E-10	1.47E-10	1.41E-10	7.80E-11	6.15E-11	-2.25E-10
URI (Δ CDF)	-1.13E-09	-1.13E-09	-1.03E-09	-1.04E-09	-1.05E-09	-1.06E-09	-1.07E-09	-1.04E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.80E-10	-9.80E-10	-8.90E-10	-8.90E-10	-9.10E-10	-9.80E-10	-1.00E-09	-1.30E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



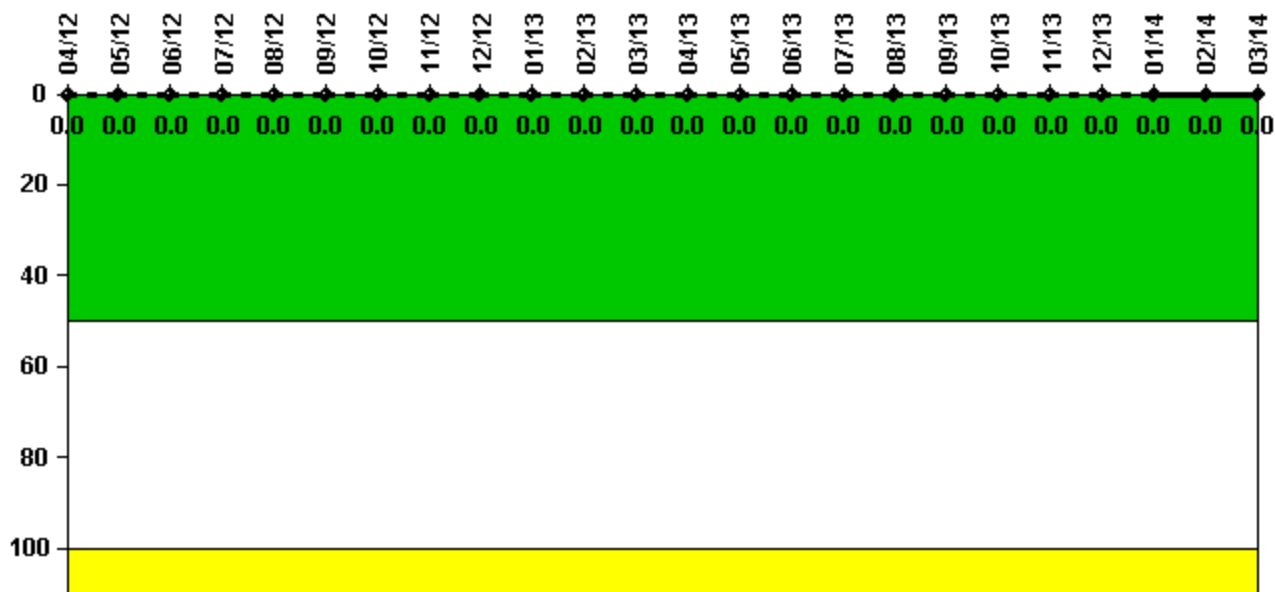
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (Δ CDF)	7.76E-13	-1.53E-09	-1.34E-09	-1.11E-09	-1.11E-09	-9.85E-10	-1.55E-09	-1.53E-09
URI (Δ CDF)	-2.37E-08	-2.39E-08	-2.34E-08	-2.32E-08	-2.27E-08	-2.25E-08	-2.18E-08	-2.16E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-08	-2.50E-08	-2.50E-08	-2.40E-08	-2.40E-08	-2.30E-08	-2.30E-08	-2.30E-08

Licensee Comments: none

Reactor Coolant System Activity



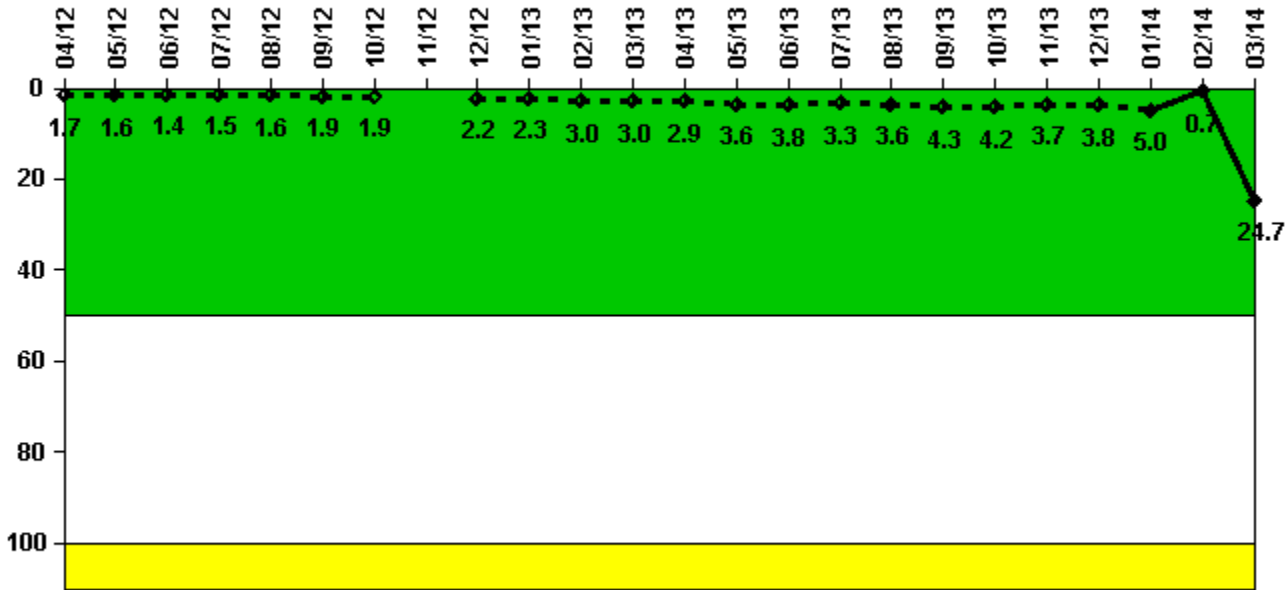
Thresholds: White > 50.0 Yellow > 100.0

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	0.000231	0.000202	0.000165	0.000174	0.000202	0.000224	0.000190	0.000180	0.000132	0.000100	0.000131	0.000105
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum activity	0.000109	0.000120	0.000115	0.000116	0.000138	0.000130	0.000126	0.000230	0.000132	0.000145	0.000145	0.000236
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

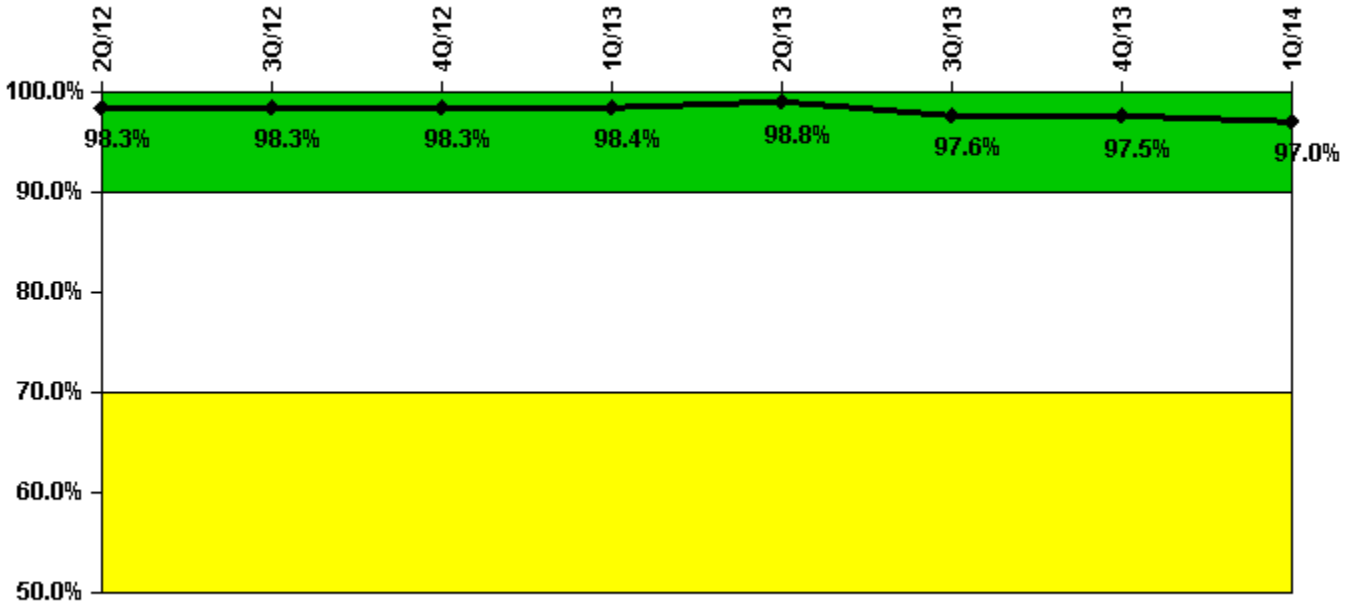
Notes

Reactor Coolant System Leakage	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum leakage	0.170	0.160	0.140	0.150	0.160	0.190	0.190	N/A	0.220	0.230	0.300	0.300
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.7	1.6	1.4	1.5	1.6	1.9	1.9	N/A	2.2	2.3	3.0	3.0
Reactor Coolant System Leakage	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum leakage	0.290	0.360	0.380	0.330	0.360	0.430	0.420	0.370	0.380	0.500	0.070	2.470
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.9	3.6	3.8	3.3	3.6	4.3	4.2	3.7	3.8	5.0	0.7	24.7

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September of 2012. The data has been corrected. This correction does not change the color of any performance indicators.

Drill/Exercise Performance



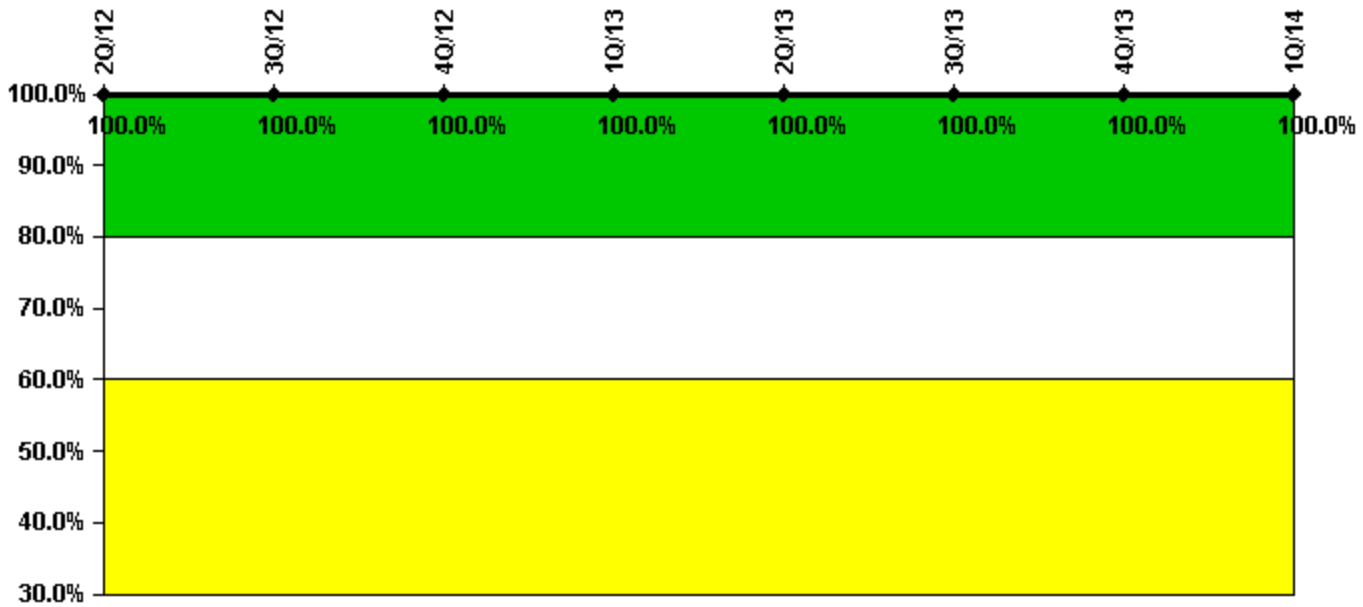
Thresholds: White < 90.0% Yellow < 70.0%

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



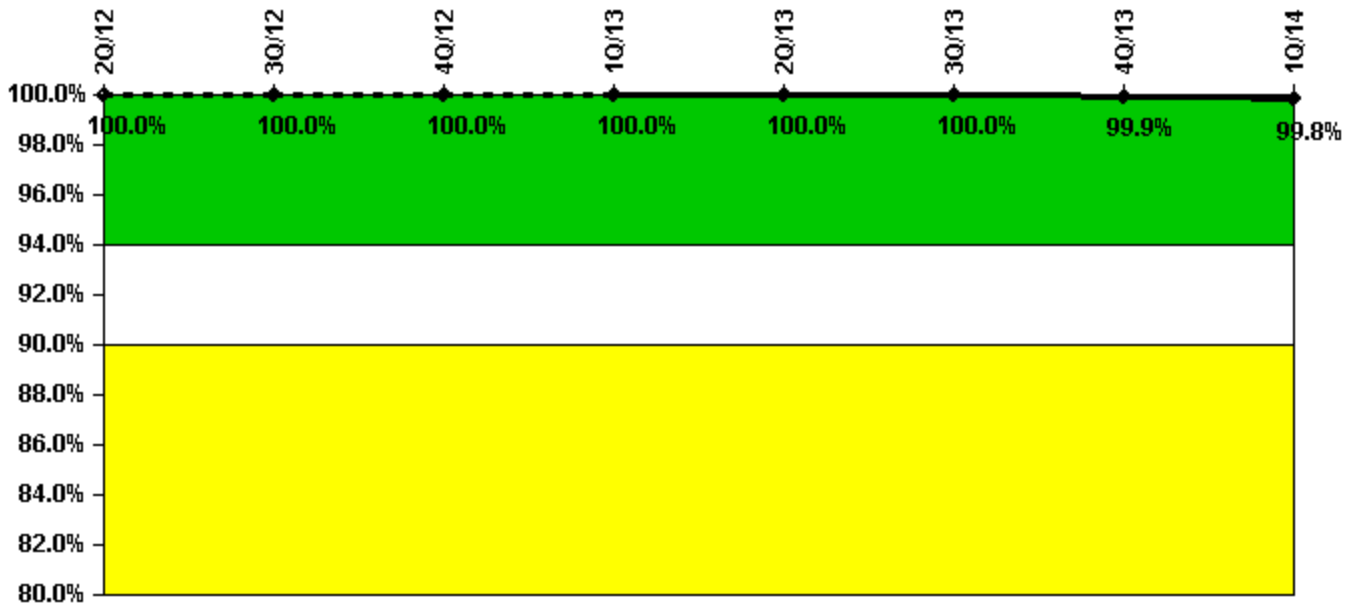
Thresholds: White < 80.0% Yellow < 60.0%

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



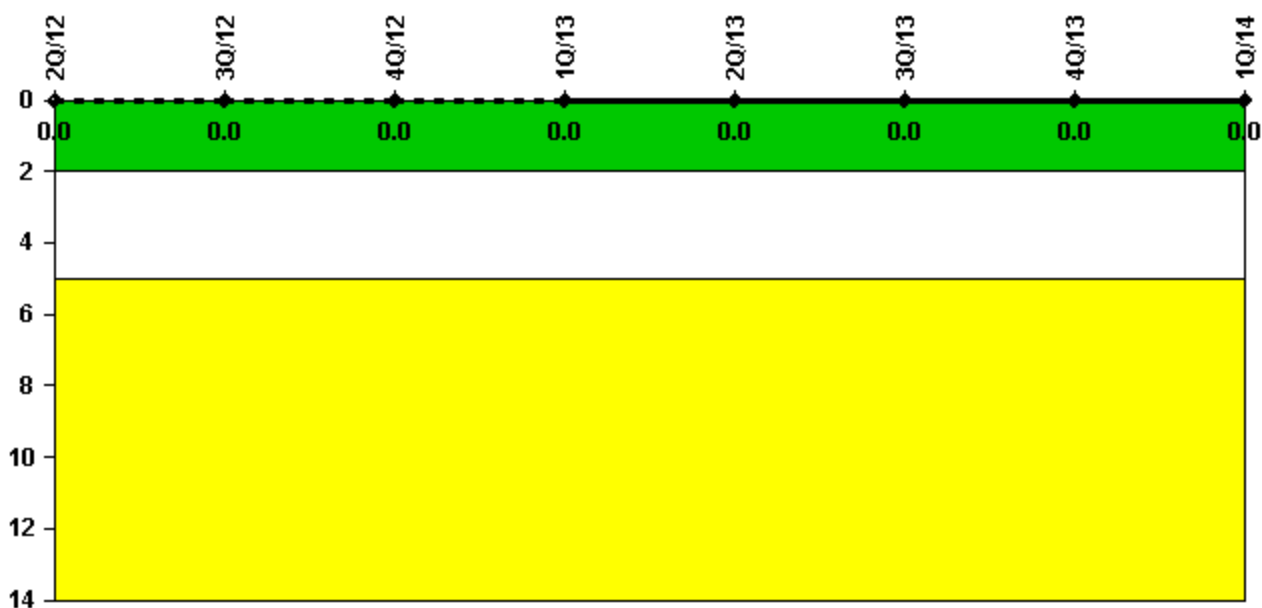
Thresholds: White < 94.0% Yellow < 90.0%

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



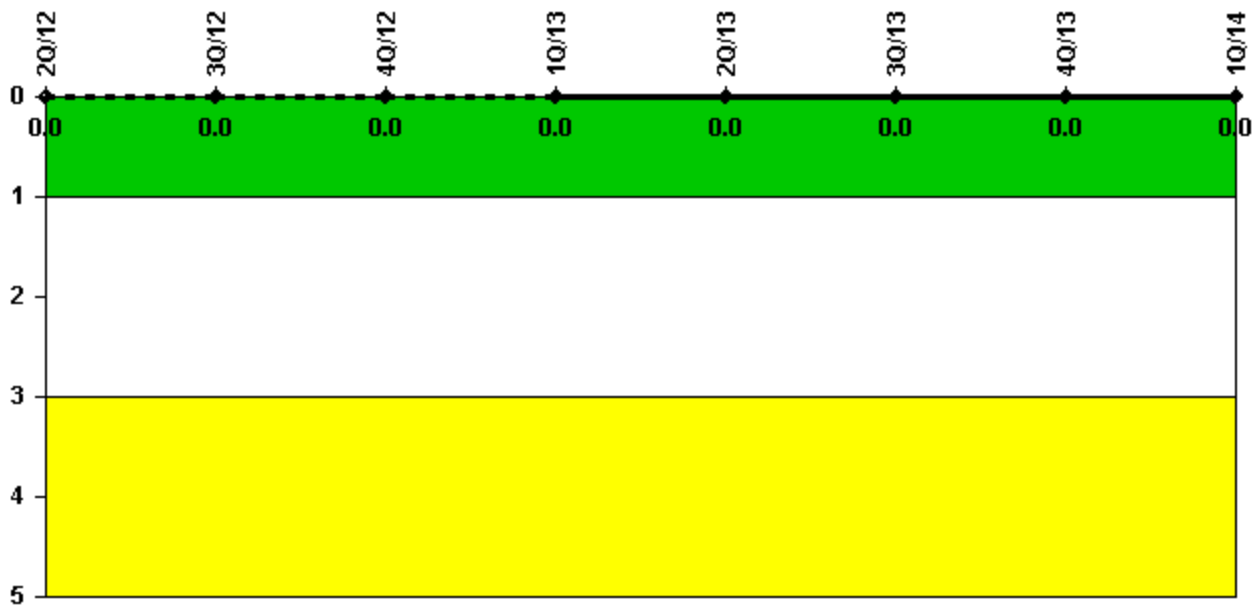
Thresholds: White > 2.0 Yellow > 5.0

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

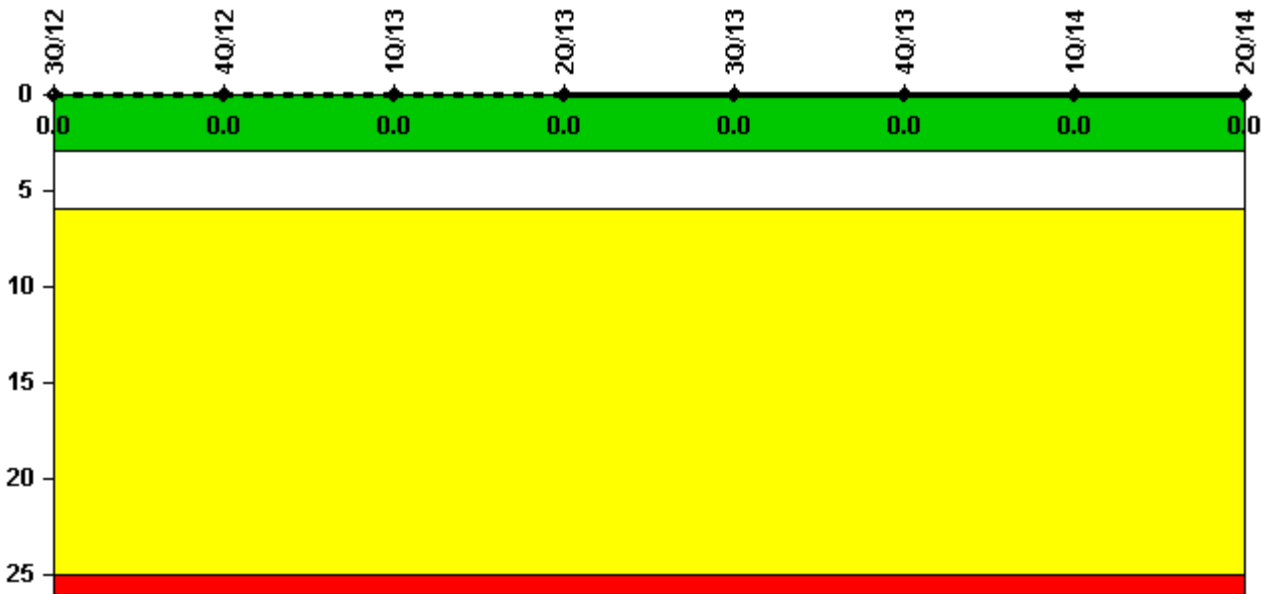
Surry 2

2Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



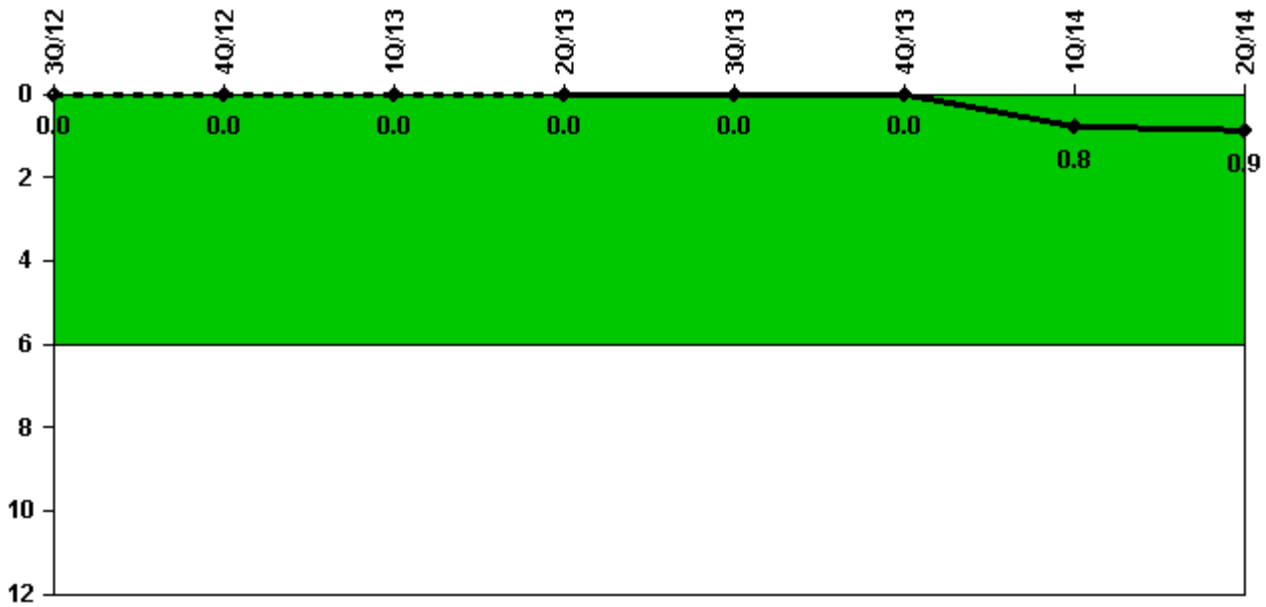
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	1452.1	2159.0	2184.0	2208.0	2209.0	2107.4	1445.8
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



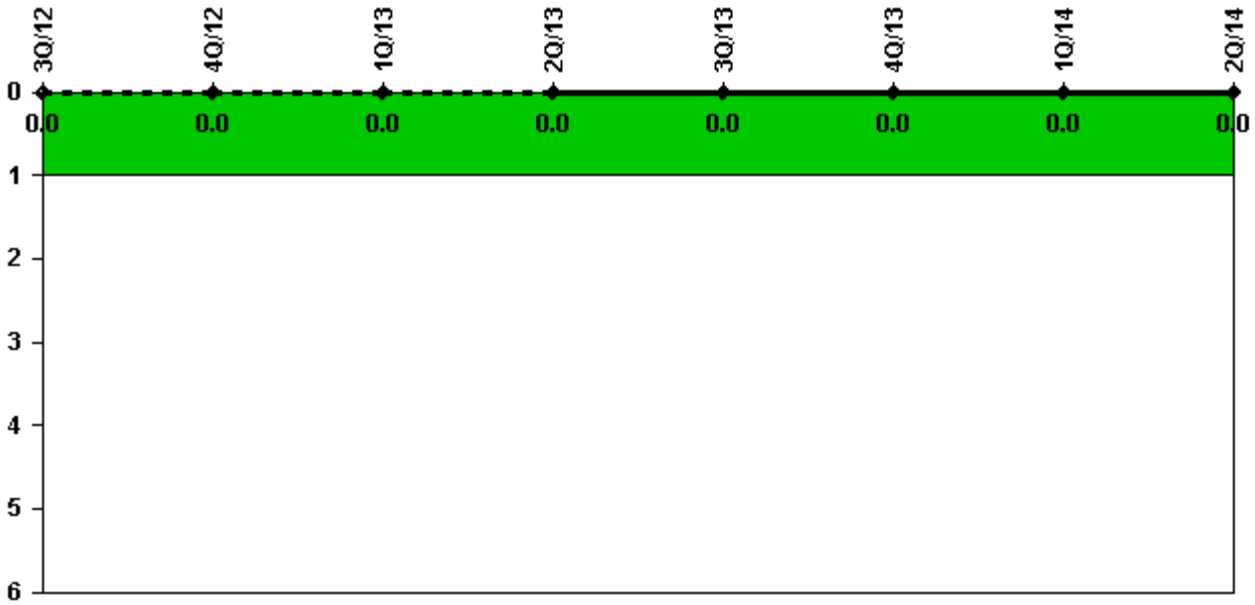
Thresholds: White > 6.0

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	0	0	0	0	0	1.0	0
Critical hours	2208.0	1452.1	2159.0	2184.0	2208.0	2209.0	2107.4	1445.8
Indicator value	0	0	0	0	0	0	0.8	0.9

Licensee Comments: none

Unplanned Scrams with Complications



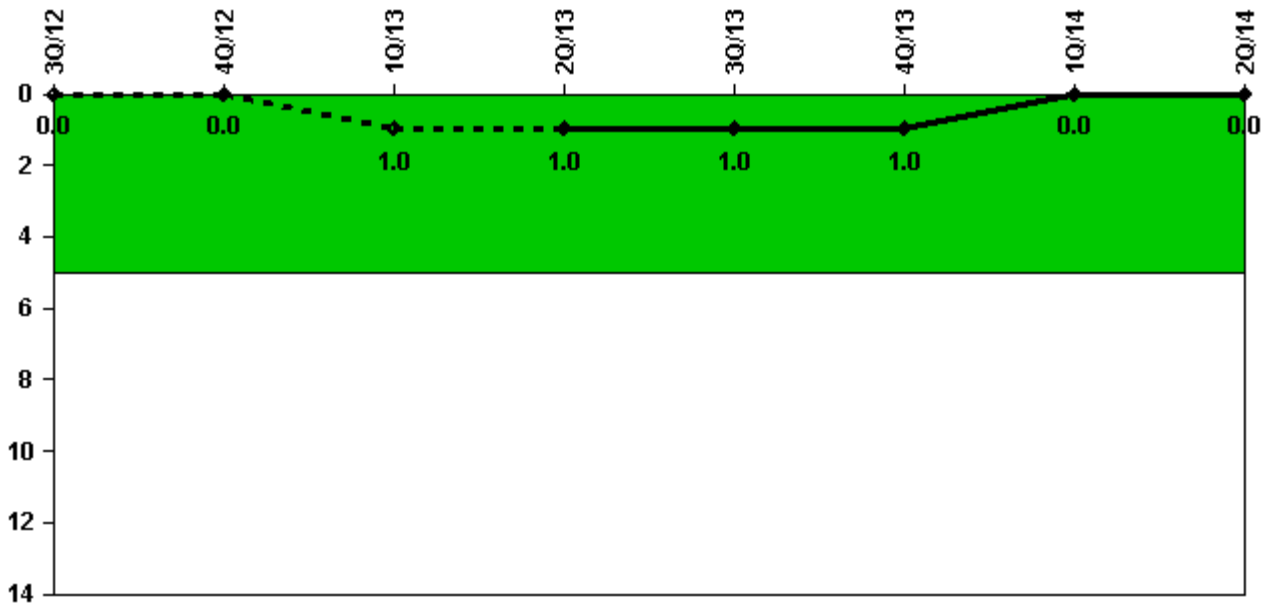
Thresholds: White > 1.0

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

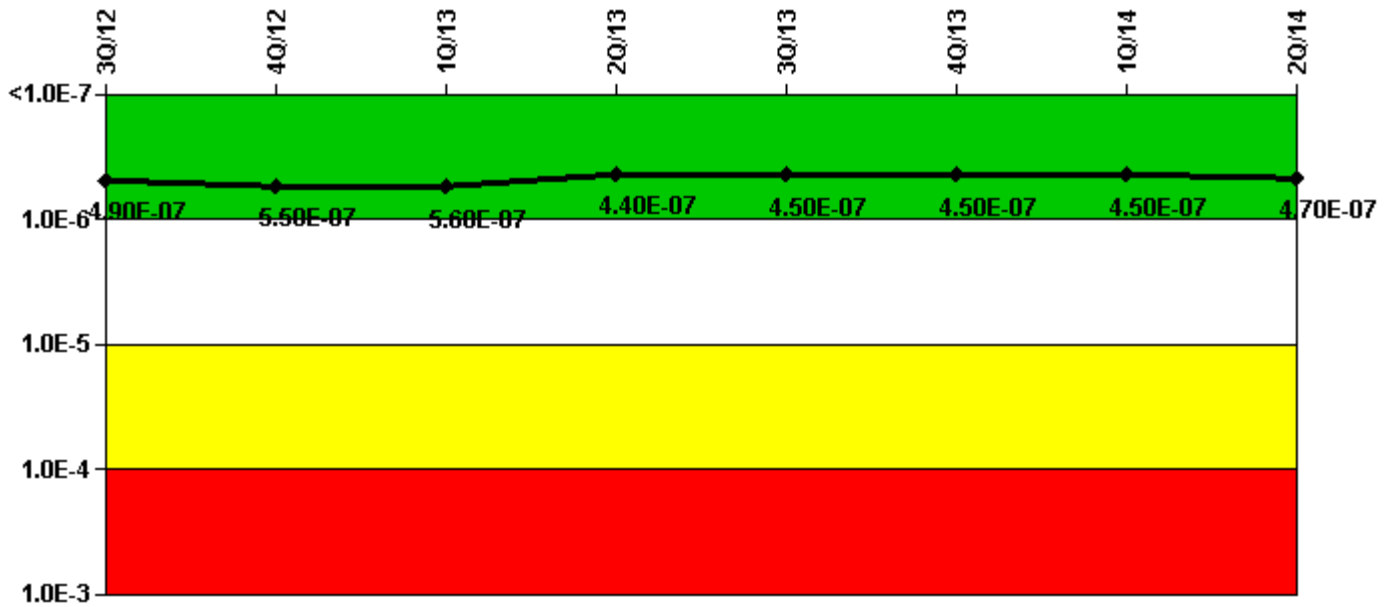
Notes

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 (Δ CDF)	4.58E-08	2.92E-08	3.29E-08	8.40E-09	7.50E-09	6.96E-09	5.58E-09	8.52E-10
URI (Δ CDF)	4.44E-07	5.21E-07	5.27E-07	4.34E-07	4.39E-07	4.47E-07	4.49E-07	4.72E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.90E-07	5.50E-07	5.60E-07	4.40E-07	4.50E-07	4.50E-07	4.50E-07	4.70E-07

Licensee Comments:

2Q/14: Risk Cap Invoked.

1Q/14: Risk Cap Invoked. An assessment determined unavailable hours for December 2012 were not correct. Historical data was corrected with no change in color.

4Q/13: Risk Cap Invoked.

4Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

2Q/13: Risk Cap Invoked.

2Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

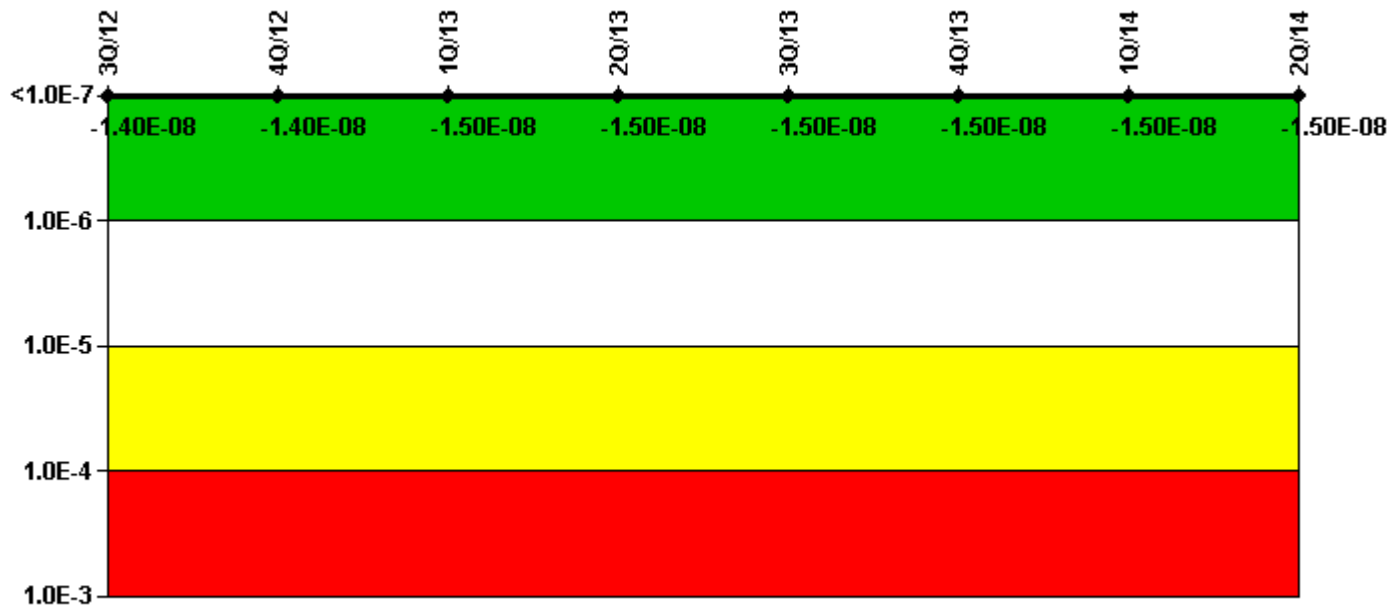
1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked.

4Q/12: Risk Cap Invoked. An evaluation for an August run failure of #2 emergency diesel was completed. Therefore historical data for August 2012 was changed with no change in color.

3Q/12: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



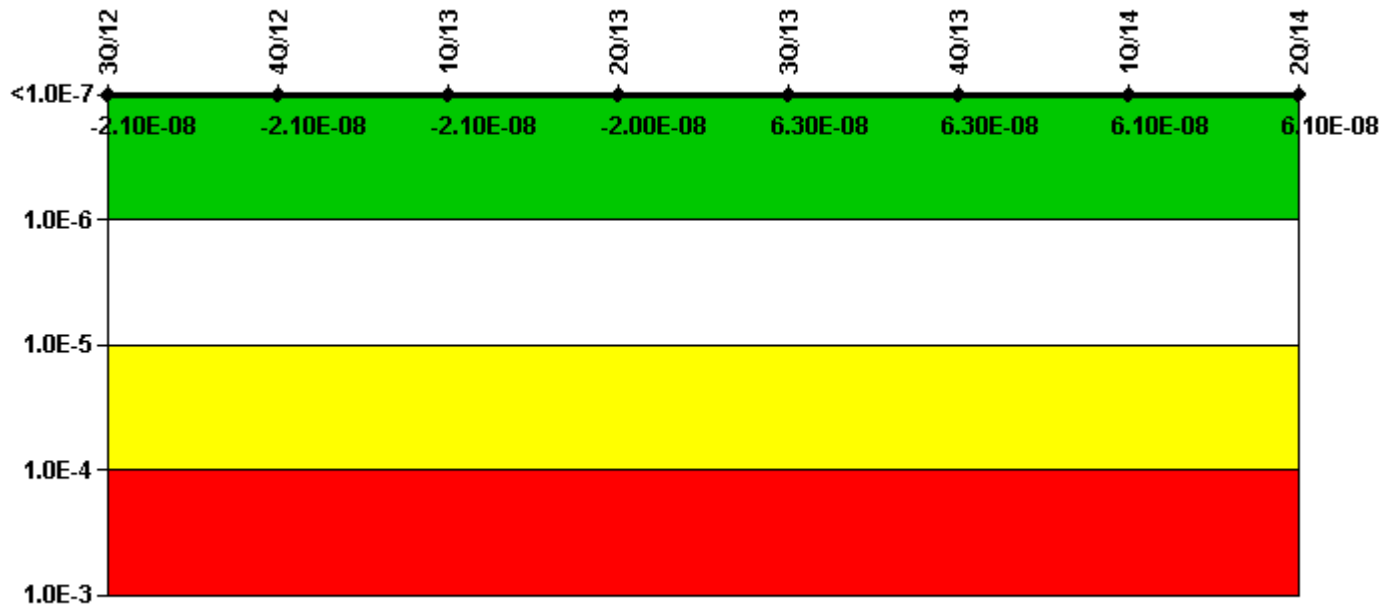
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	1.32E-09	1.31E-09	-2.13E-10	2.17E-10	2.37E-10	1.39E-10	4.53E-10	3.75E-10
URI (ΔCDF)	-1.51E-08	-1.52E-08	-1.51E-08	-1.50E-08	-1.53E-08	-1.52E-08	-1.51E-08	-1.54E-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	-1.50E-08	-1.50E-08	-1.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



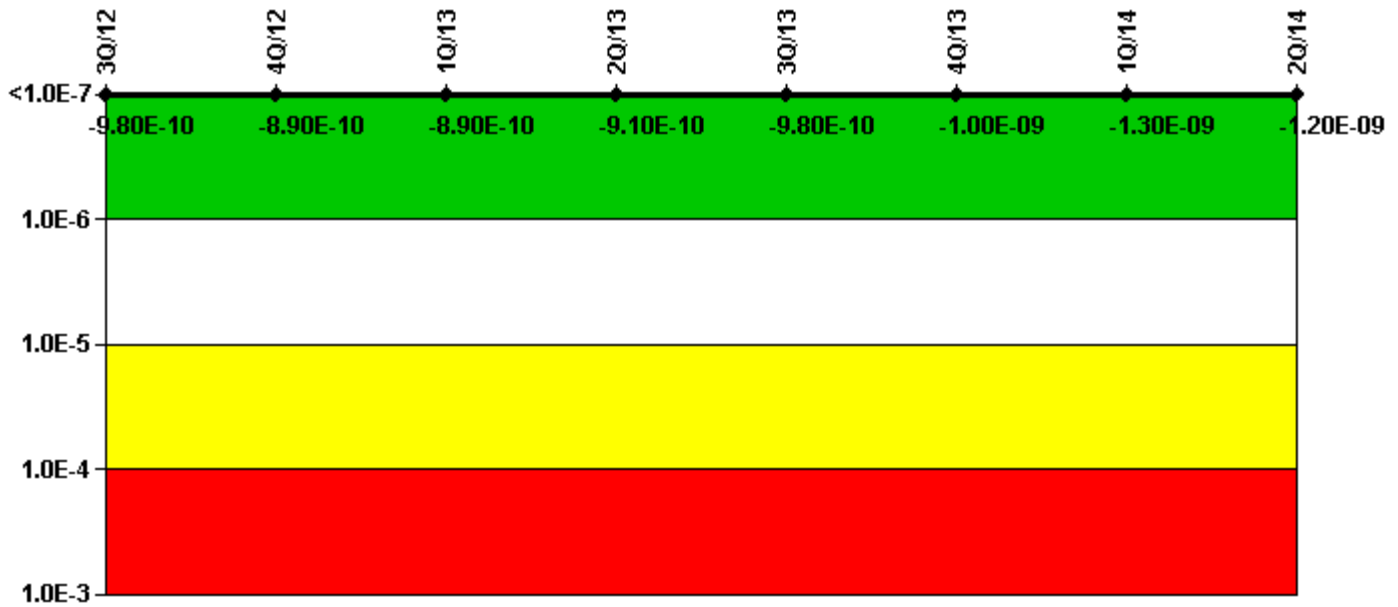
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (Δ CDF)	-5.69E-09	-5.68E-09	-5.68E-09	-4.23E-09	-2.97E-09	-2.97E-09	-3.23E-09	-3.33E-09
URI (Δ CDF)	-1.49E-08	-1.54E-08	-1.54E-08	-1.60E-08	6.62E-08	6.62E-08	6.46E-08	6.47E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.10E-08	-2.10E-08	-2.10E-08	-2.00E-08	6.30E-08	6.30E-08	6.10E-08	6.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



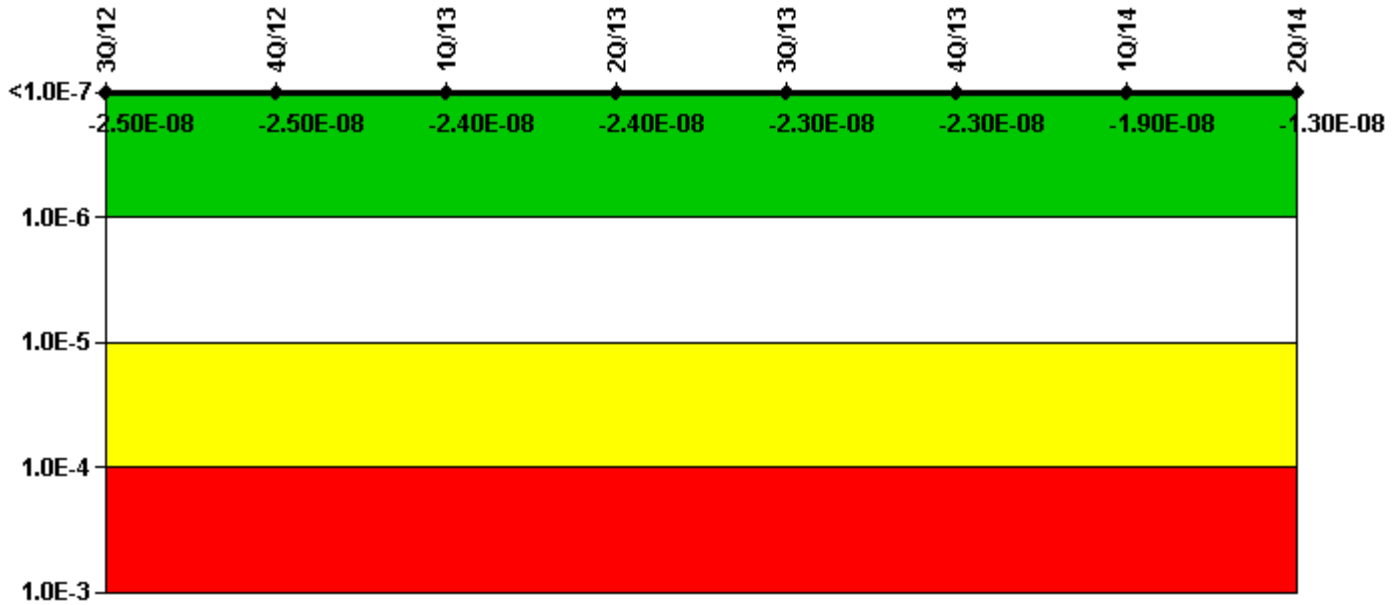
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (Δ CDF)	1.46E-10	1.47E-10	1.47E-10	1.41E-10	7.80E-11	6.15E-11	-2.25E-10	-2.26E-10
URI (Δ CDF)	-1.13E-09	-1.03E-09	-1.04E-09	-1.05E-09	-1.06E-09	-1.07E-09	-1.04E-09	-9.69E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.80E-10	-8.90E-10	-8.90E-10	-9.10E-10	-9.80E-10	-1.00E-09	-1.30E-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

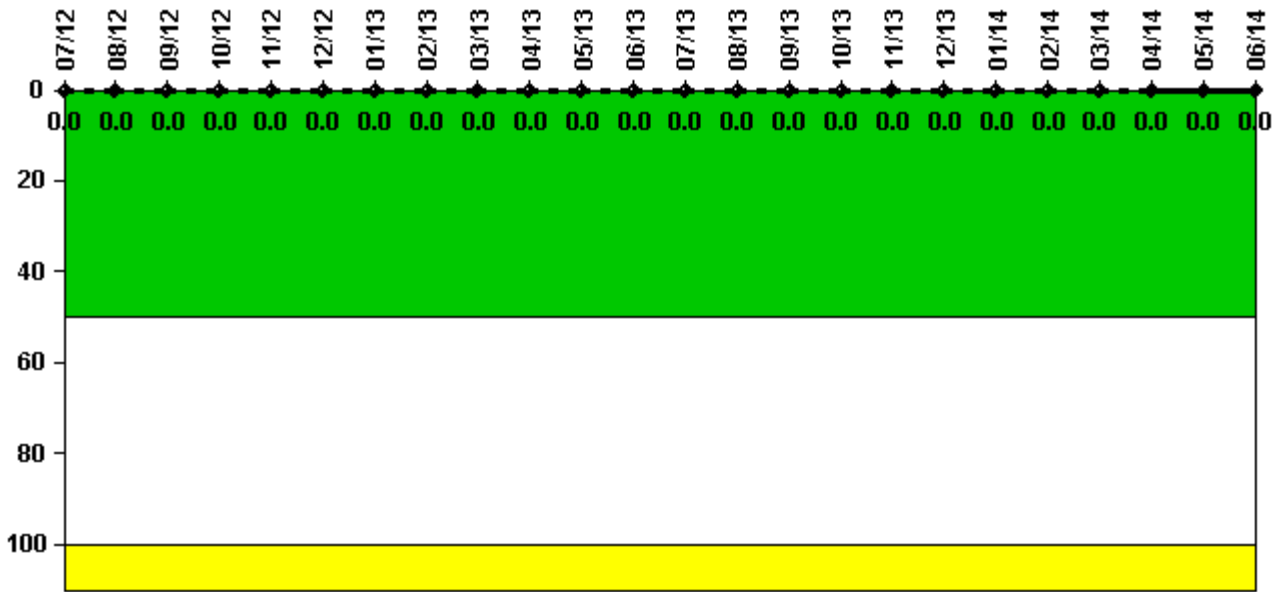
Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (Δ CDF)	-1.53E-09	-1.34E-09	-1.11E-09	-1.11E-09	-9.85E-10	-1.55E-09	-1.53E-09	-1.39E-09
URI (Δ CDF)	-2.39E-08	-2.34E-08	-2.32E-08	-2.27E-08	-2.25E-08	-2.18E-08	-1.71E-08	-1.21E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-08	-2.50E-08	-2.40E-08	-2.40E-08	-2.30E-08	-2.30E-08	-1.90E-08	-1.30E-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



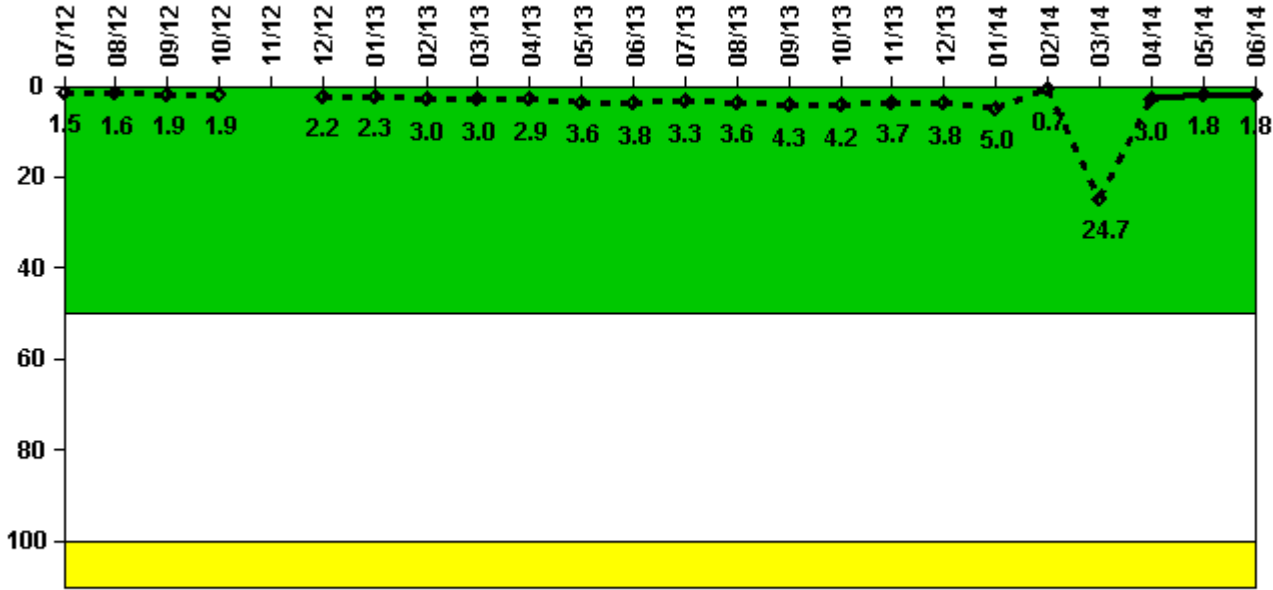
Thresholds: White > 50.0 Yellow > 100.0

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	0.000174	0.000202	0.000224	0.000190	0.000180	0.000132	0.000100	0.000131	0.000105	0.000109	0.000120	0.000115
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum activity	0.000116	0.000138	0.000130	0.000126	0.000230	0.000132	0.000145	0.000145	0.000236	0.000151	0.000439	0.000066
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

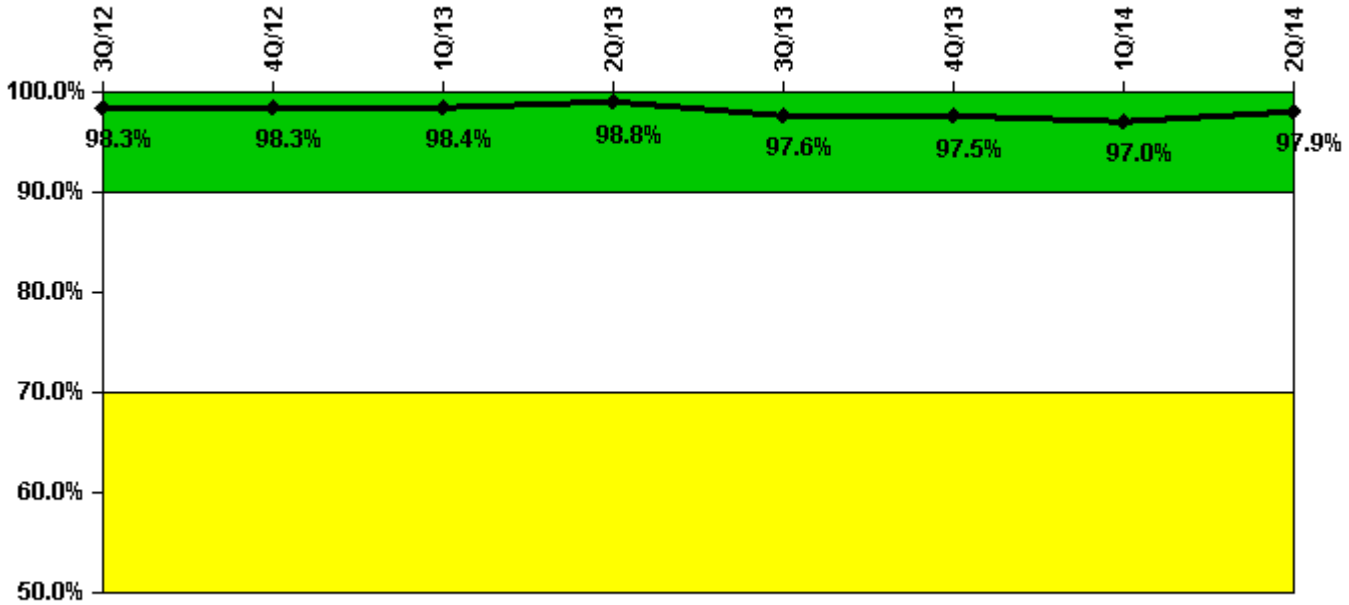
Notes

Reactor Coolant System Leakage	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum leakage	0.150	0.160	0.190	0.190	N/A	0.220	0.230	0.300	0.300	0.290	0.360	0.380
Technical specification limit	10.0	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	1.6	1.9	1.9	N/A	2.2	2.3	3.0	3.0	2.9	3.6	3.8
Reactor Coolant System Leakage	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum leakage	0.330	0.360	0.430	0.420	0.370	0.380	0.500	0.070	2.470	0.300	0.180	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	3.3	3.6	4.3	4.2	3.7	3.8	5.0	0.7	24.7	3.0	1.8	1.8

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September of 2012. The data has been corrected. This correction does not change the color of any performance indicators.

Drill/Exercise Performance



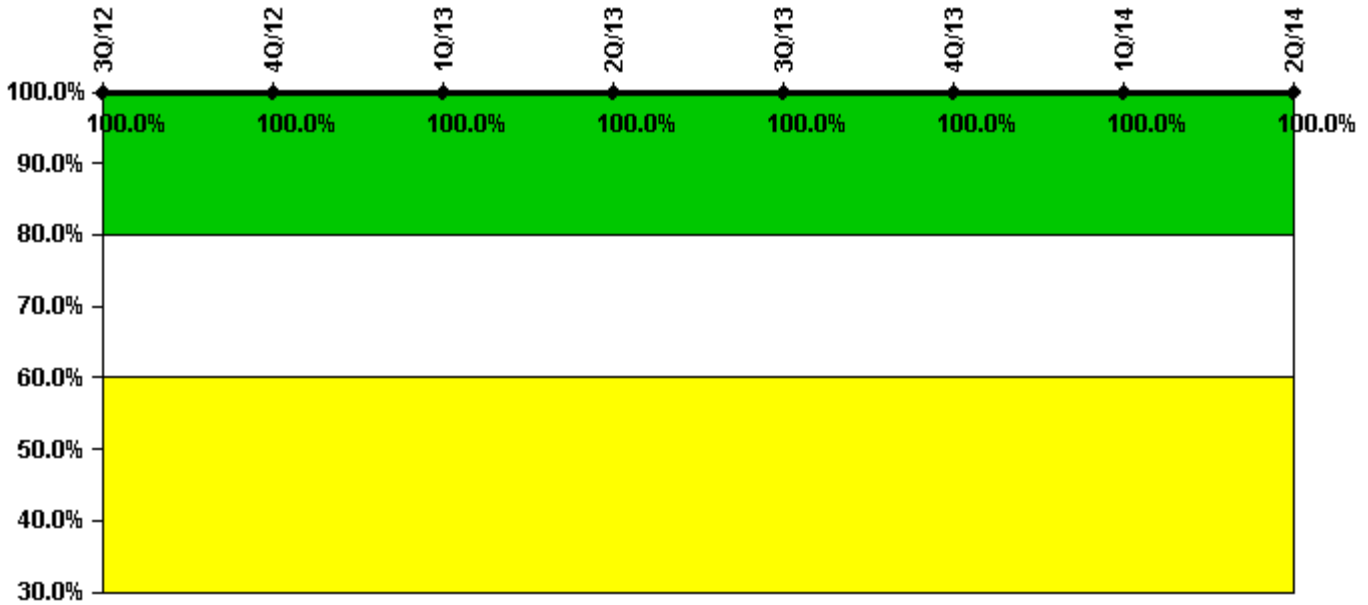
Thresholds: White < 90.0% Yellow < 70.0%

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



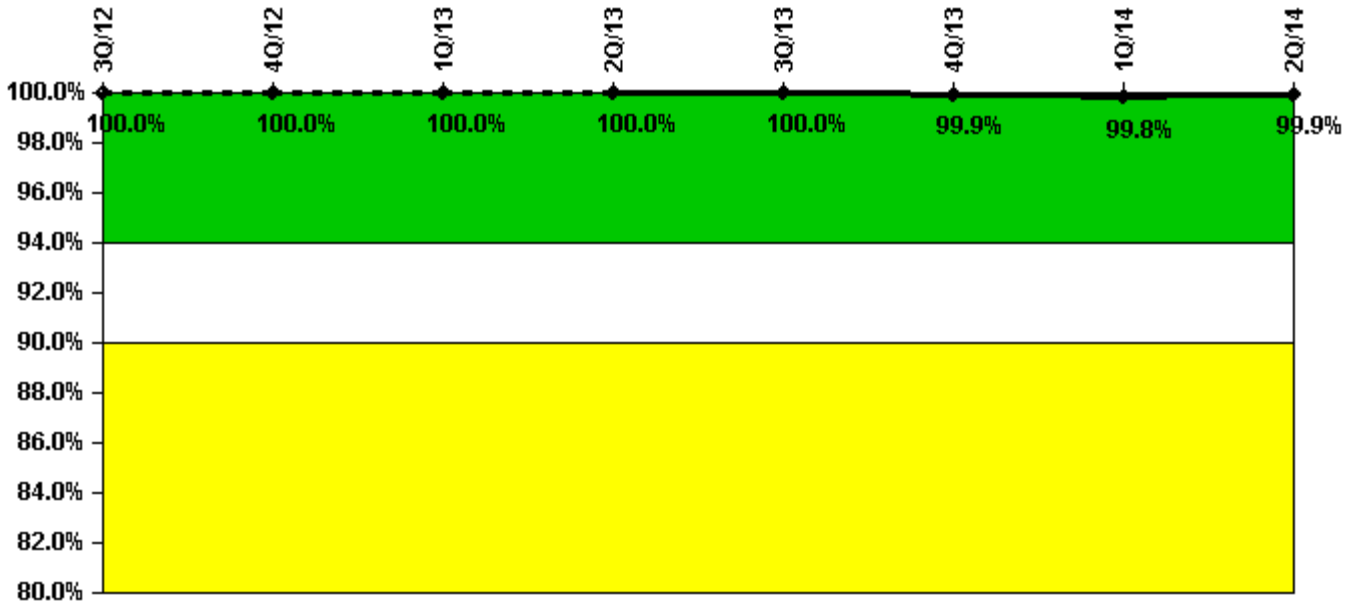
Thresholds: White < 80.0% Yellow < 60.0%

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



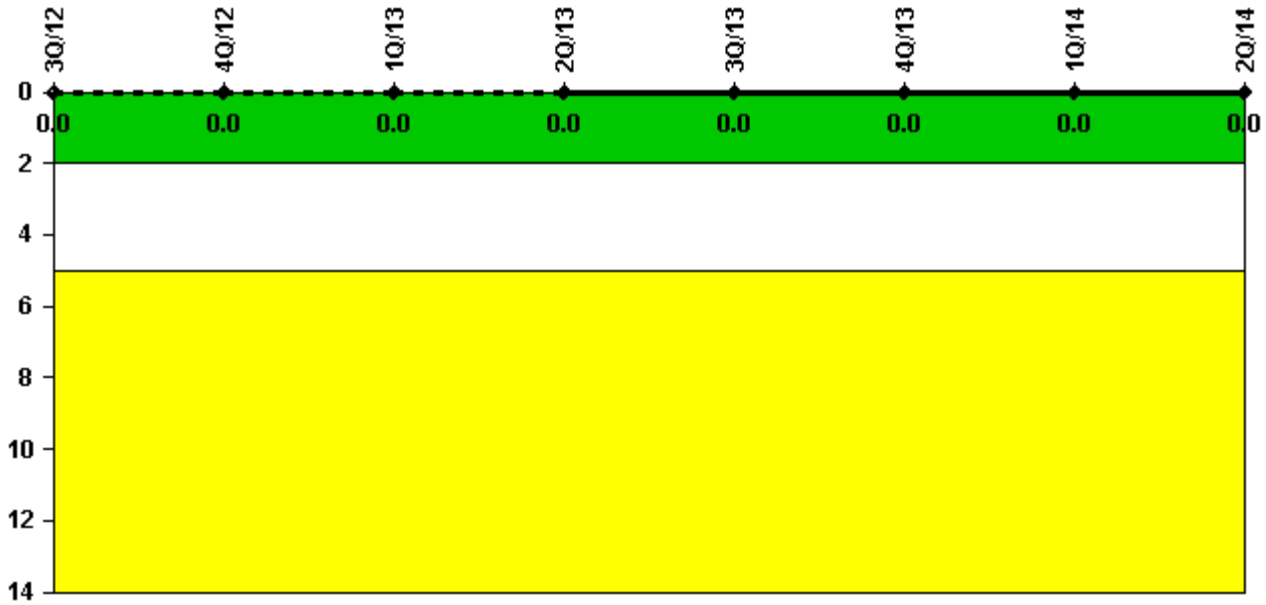
Thresholds: White < 94.0% Yellow < 90.0%

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



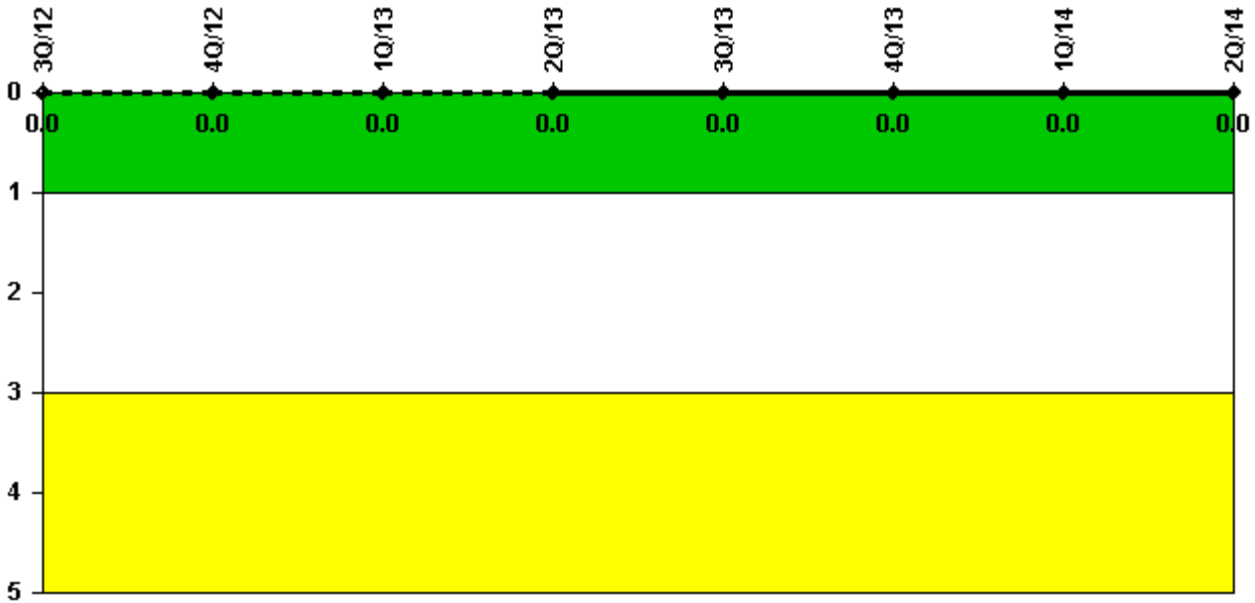
Thresholds: White > 2.0 Yellow > 5.0

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

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	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

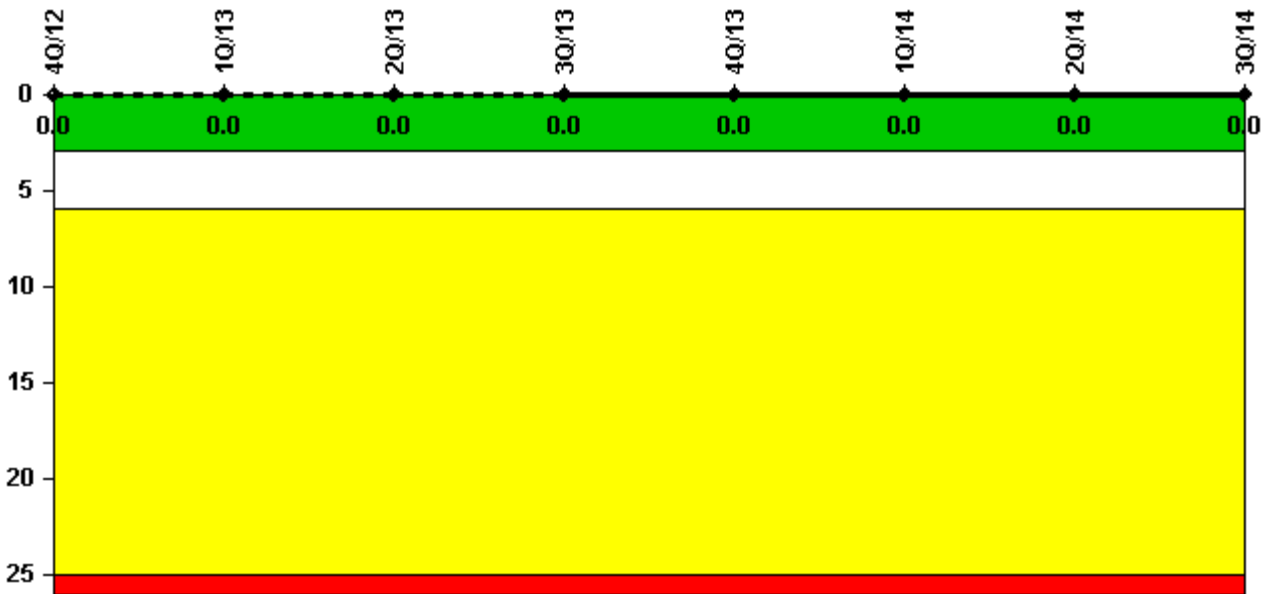
Surry 2

3Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



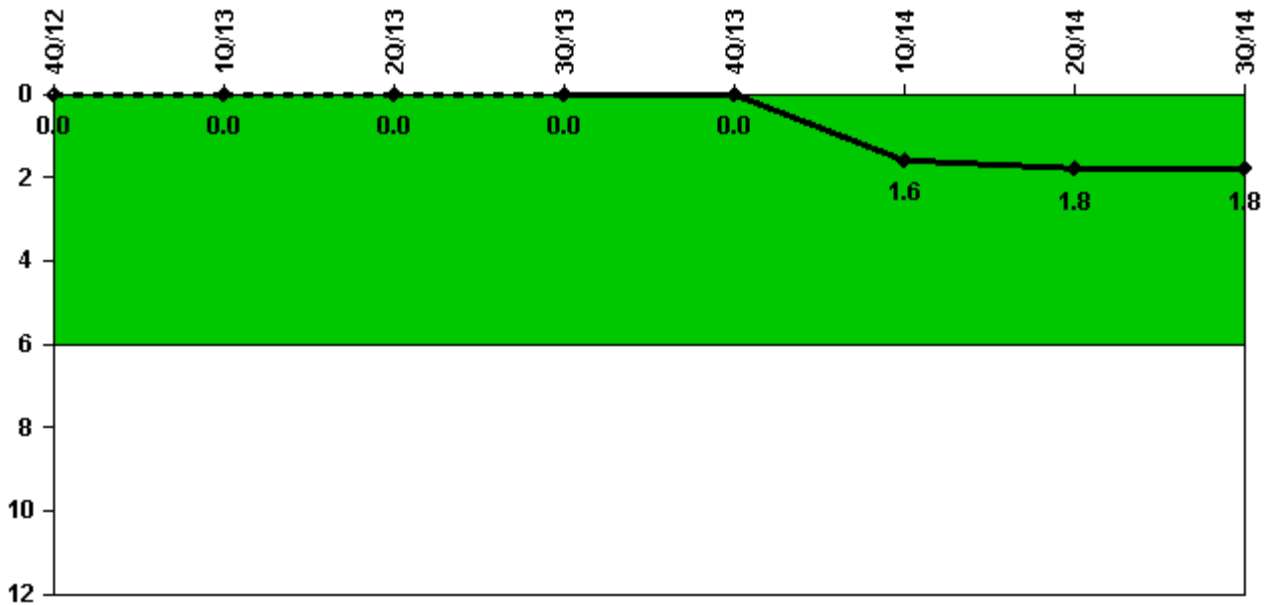
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1452.1	2159.0	2184.0	2208.0	2209.0	2107.4	1445.8	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

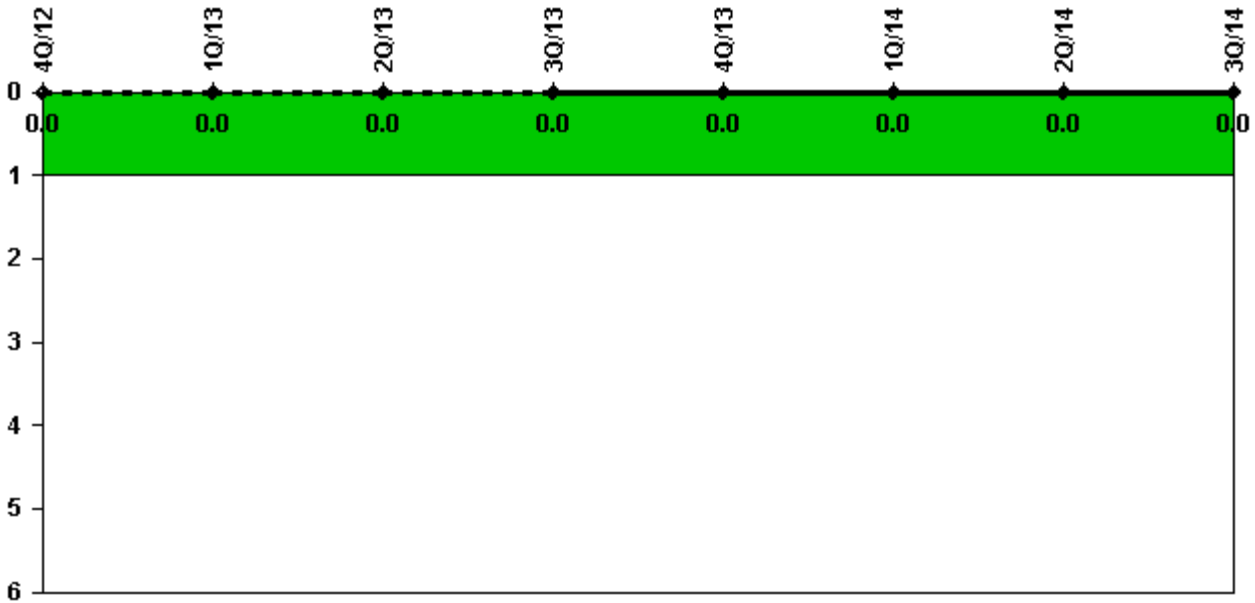
Notes

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	0	0	0	0	0	2.0	0	0
Critical hours	1452.1	2159.0	2184.0	2208.0	2209.0	2107.4	1445.8	2208.0
Indicator value	0	0	0	0	0	1.6	1.8	1.8

Licensee Comments:

3Q/14: A review, prompted by the NRC, determined the March 2014 Unit 2 shutdown to repair a pressurizer spray valve was also an unplanned power change. Historical data was corrected with no change in color.

Unplanned Scrams with Complications



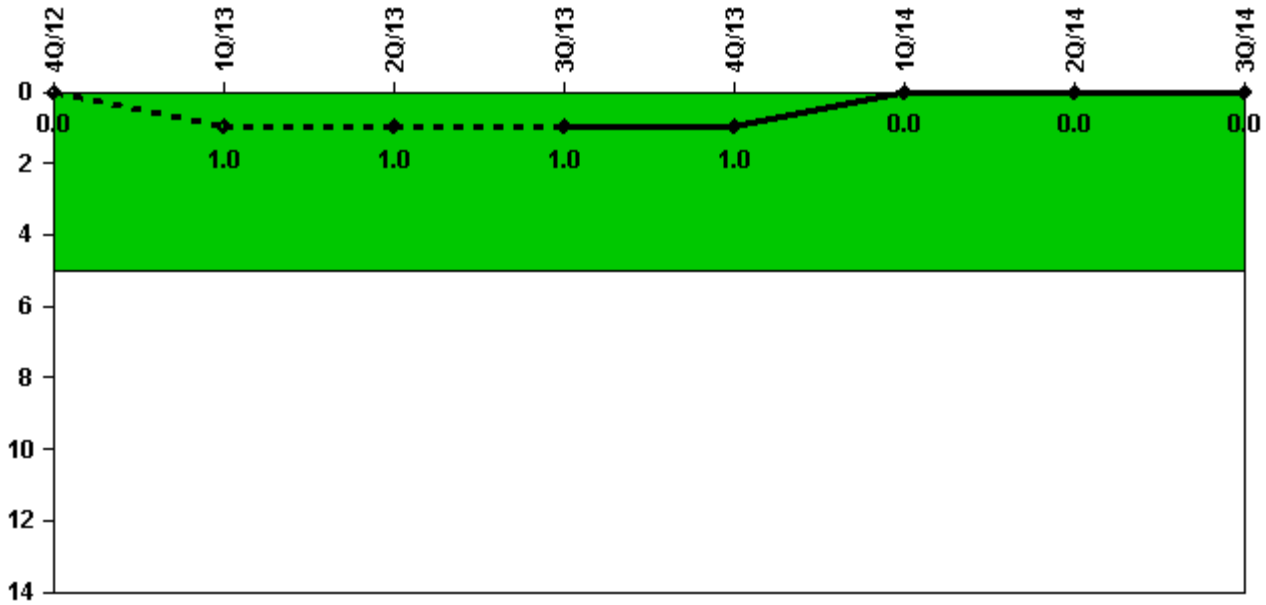
Thresholds: White > 1.0

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

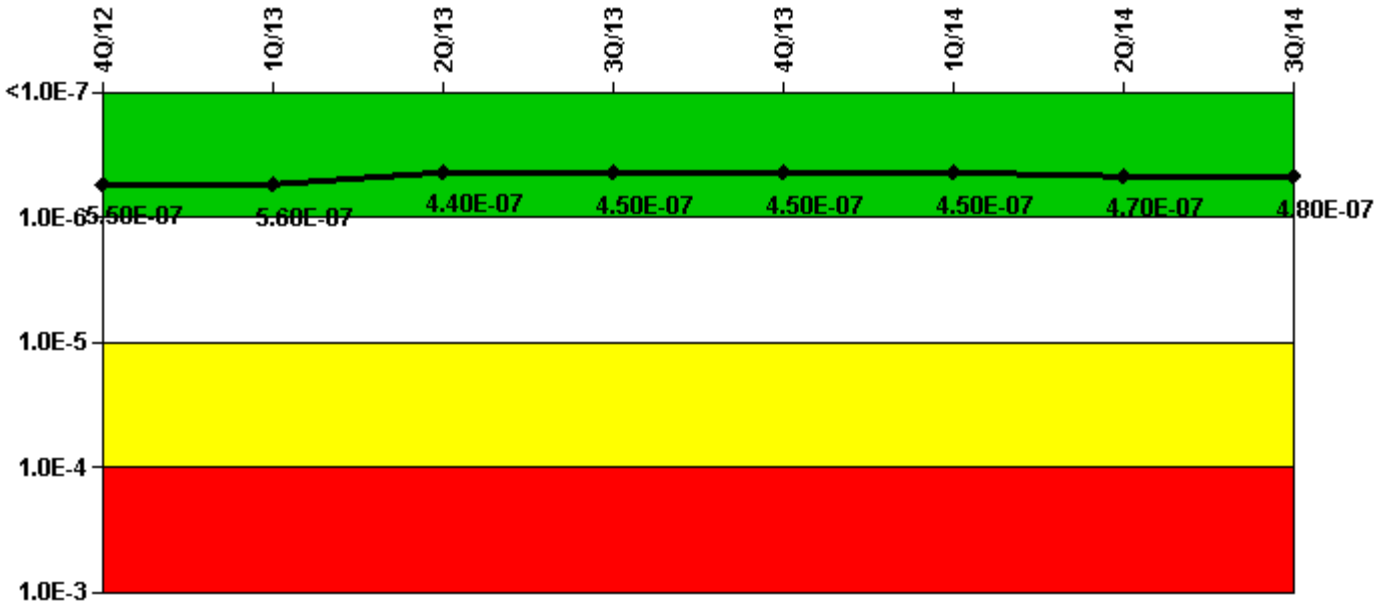
Notes

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 (Δ CDF)	2.92E-08	3.29E-08	8.40E-09	7.50E-09	6.96E-09	5.58E-09	8.52E-10	1.06E-09
URI (Δ CDF)	5.21E-07	5.27E-07	4.34E-07	4.39E-07	4.47E-07	4.49E-07	4.72E-07	4.77E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.50E-07	5.60E-07	4.40E-07	4.50E-07	4.50E-07	4.50E-07	4.70E-07	4.80E-07

Licensee Comments:

3Q/14: Risk Cap Invoked. A review determined a minor discrepancy of 4 minutes of unavailability for #3 diesel for August 2013. Historical data was changed with no change in color.

2Q/14: Risk Cap Invoked.

1Q/14: Risk Cap Invoked. An assessment determined unavailable hours for December 2012 were not correct. Historical data was corrected with no change in color.

4Q/13: Risk Cap Invoked.

4Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

2Q/13: Risk Cap Invoked.

2Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked.

4Q/12: Risk Cap Invoked. An evaluation for an August run failure of #2 emergency diesel was completed. Therefore historical data for August 2012 was changed 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

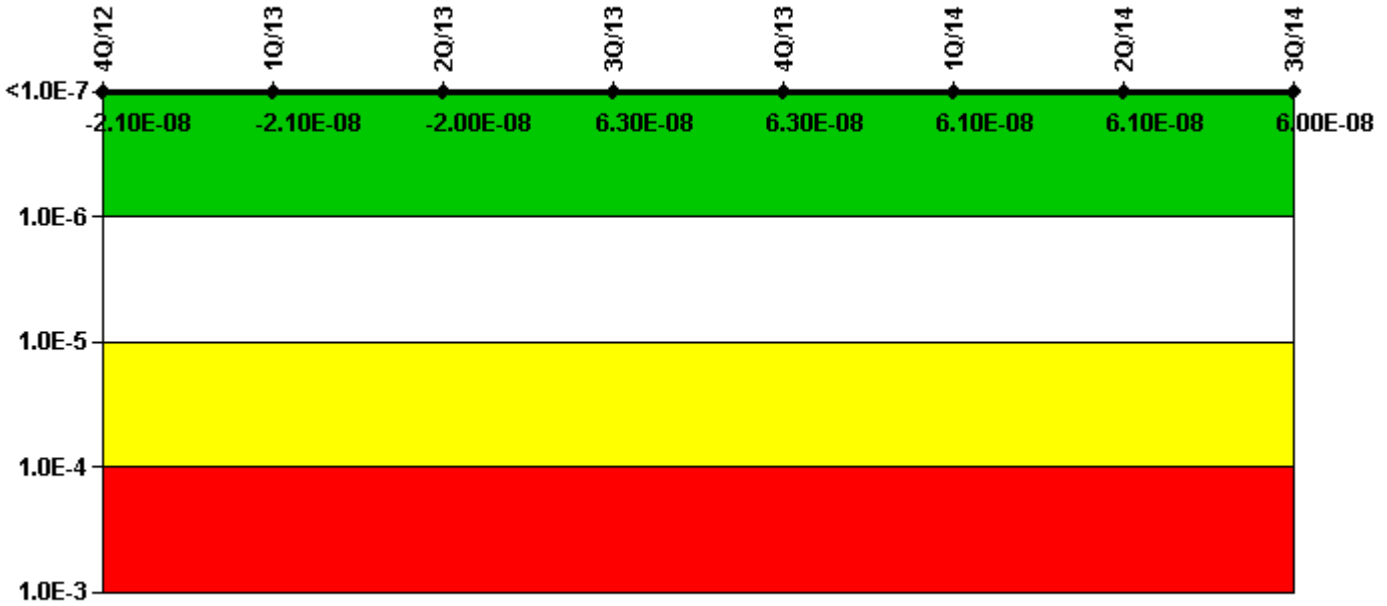
Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	1.31E-09	-2.13E-10	2.17E-10	2.37E-10	1.39E-10	4.53E-10	3.75E-10	2.77E-10
URI (Δ CDF)	-1.52E-08	-1.51E-08	-1.50E-08	-1.53E-08	-1.52E-08	-1.51E-08	-1.54E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
	-1.40E-	-1.50E-	-1.50E-	-1.50E-	-1.50E-	-1.50E-	-1.50E-	-1.50E-

Indicator value	08	08	08	08	08	08	08	08
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Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



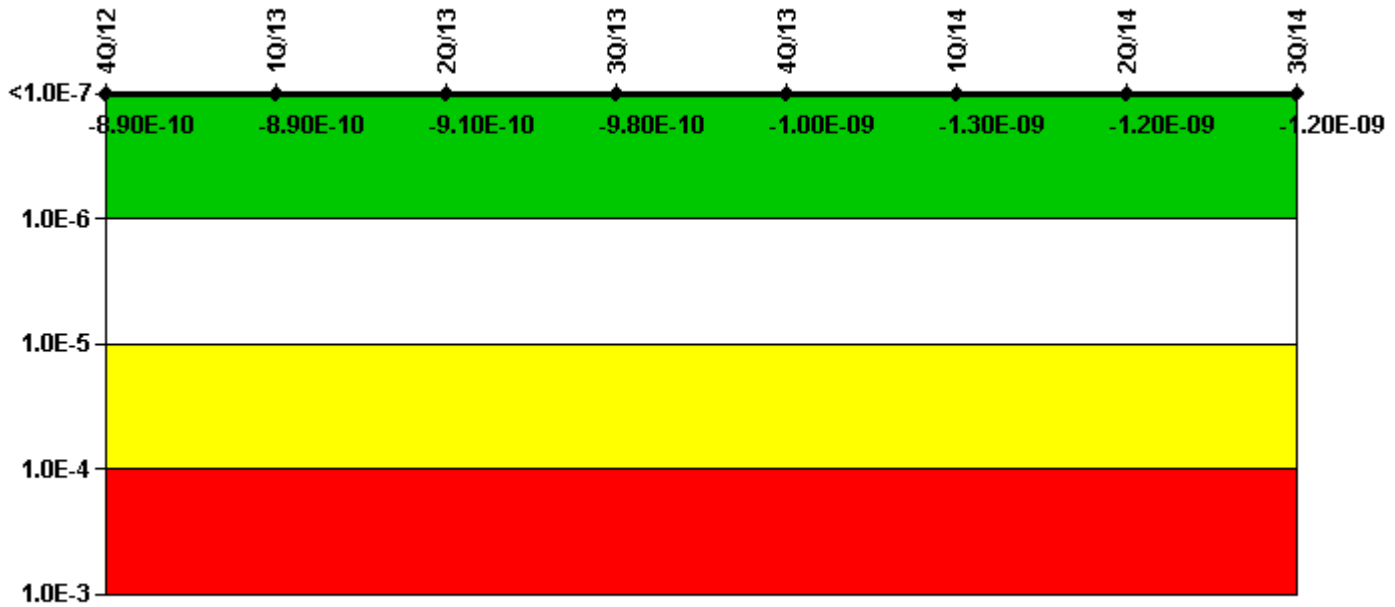
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	-5.68E-09	-5.68E-09	-4.23E-09	-2.97E-09	-2.97E-09	-3.23E-09	-3.33E-09	-3.33E-09
URI (Δ CDF)	-1.54E-08	-1.54E-08	-1.60E-08	6.62E-08	6.62E-08	6.46E-08	6.47E-08	6.31E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.10E-08	-2.10E-08	-2.00E-08	6.30E-08	6.30E-08	6.10E-08	6.10E-08	6.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



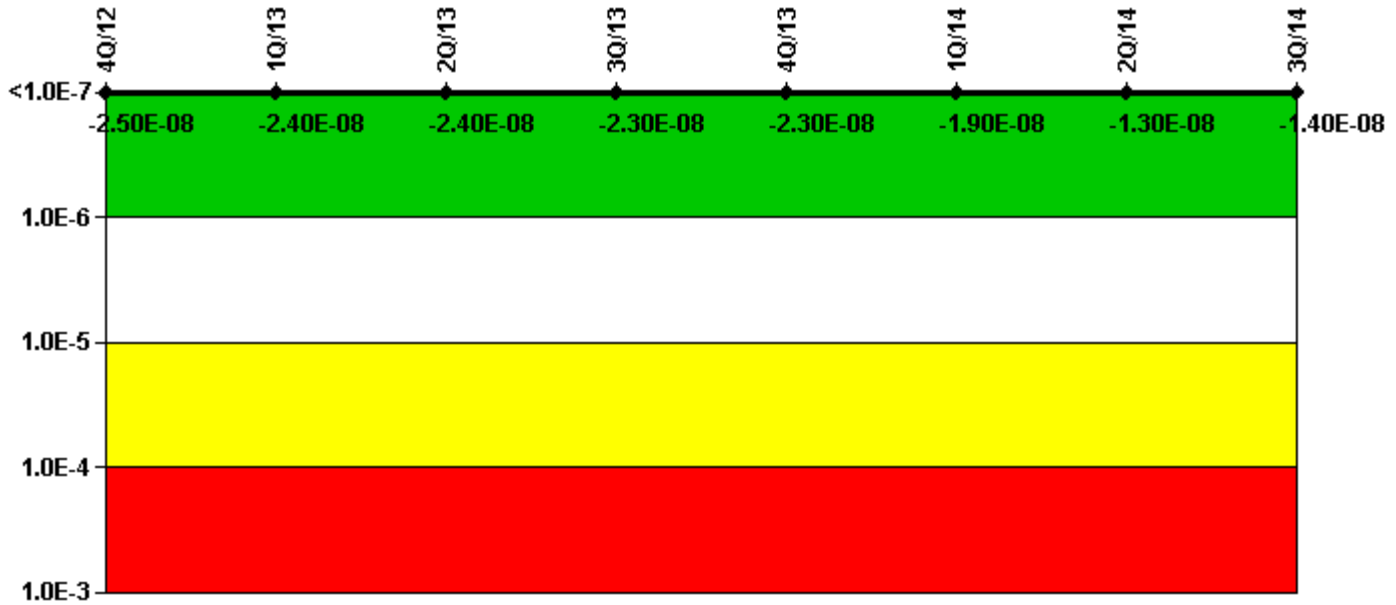
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	1.47E-10	1.47E-10	1.41E-10	7.80E-11	6.15E-11	-2.25E-10	-2.26E-10	-2.38E-10
URI (Δ CDF)	-1.03E-09	-1.04E-09	-1.05E-09	-1.06E-09	-1.07E-09	-1.04E-09	-9.69E-10	-9.60E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.90E-10	-8.90E-10	-9.10E-10	-9.80E-10	-1.00E-09	-1.30E-09	-1.20E-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

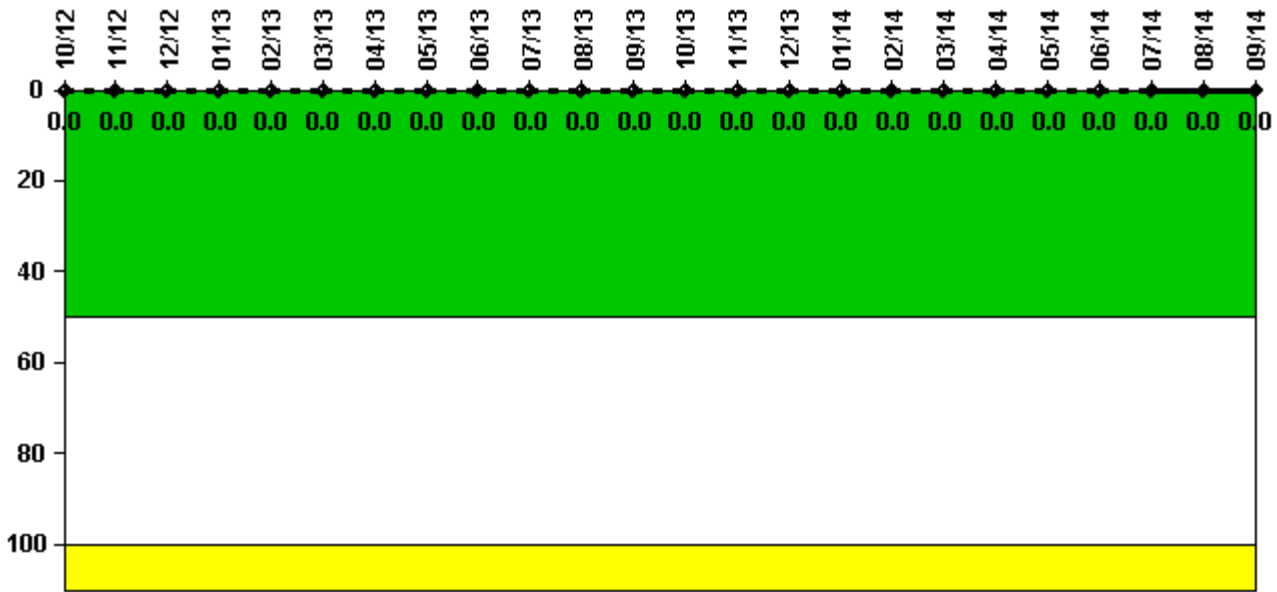
Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	-1.34E-09	-1.11E-09	-1.11E-09	-9.85E-10	-1.55E-09	-1.53E-09	-1.39E-09	-1.39E-09
URI (Δ CDF)	-2.34E-08	-2.32E-08	-2.27E-08	-2.25E-08	-2.18E-08	-1.71E-08	-1.21E-08	-1.22E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-08	-2.40E-08	-2.40E-08	-2.30E-08	-2.30E-08	-1.90E-08	-1.30E-08	-1.40E-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



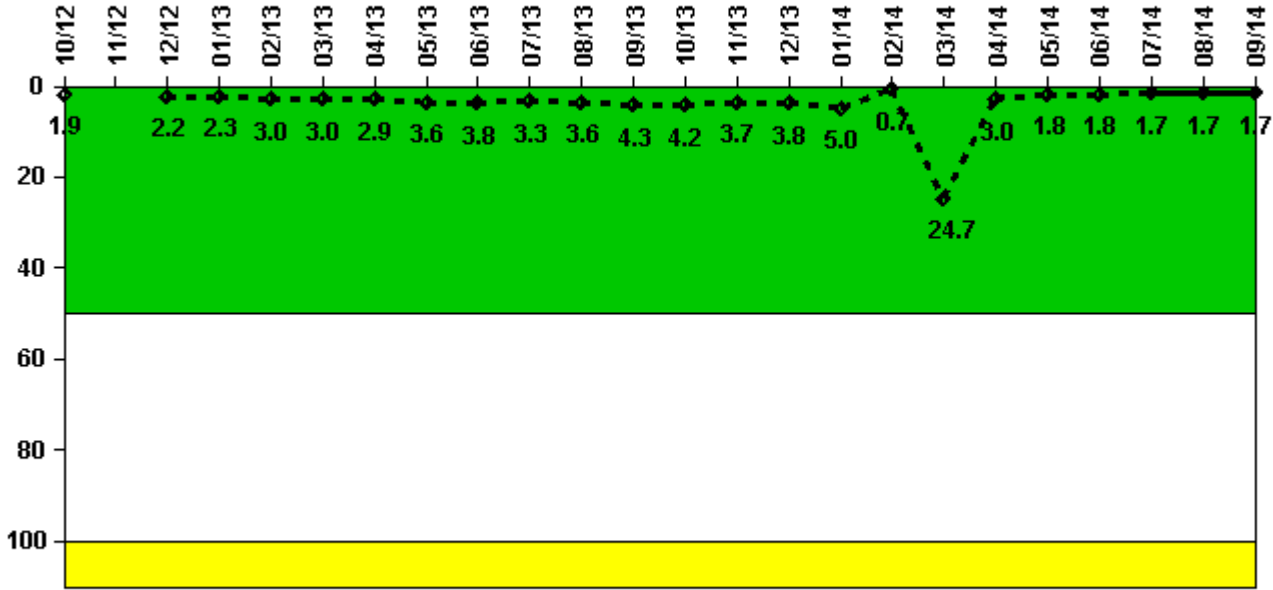
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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	0.000190	0.000180	0.000132	0.000100	0.000131	0.000105	0.000109	0.000120	0.000115	0.000116	0.000138	0.000130
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
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	0.000126	0.000230	0.000132	0.000145	0.000145	0.000236	0.000151	0.000439	0.000066	0.000079	0.000077	0.000100
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

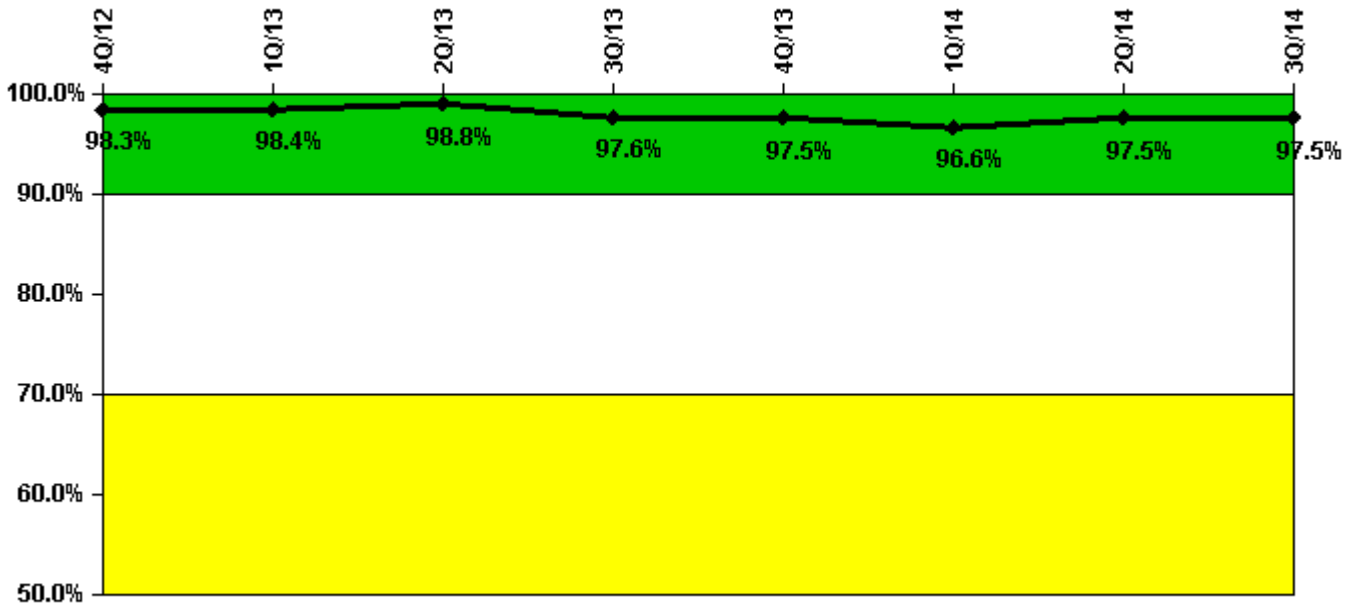
Notes

Reactor Coolant System Leakage	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum leakage	0.190	N/A	0.220	0.230	0.300	0.300	0.290	0.360	0.380	0.330	0.360	0.430
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.9	N/A	2.2	2.3	3.0	3.0	2.9	3.6	3.8	3.3	3.6	4.3
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	0.420	0.370	0.380	0.500	0.070	2.470	0.300	0.180	0.180	0.170	0.170	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	4.2	3.7	3.8	5.0	0.7	24.7	3.0	1.8	1.8	1.7	1.7	1.7

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September 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%

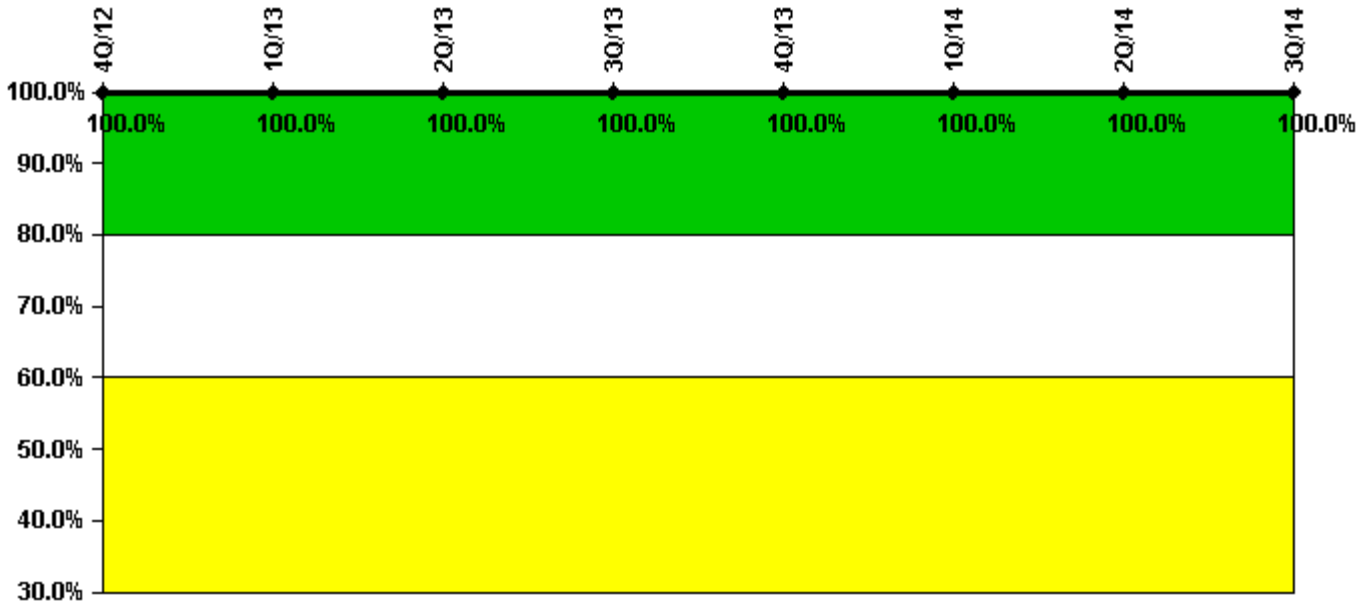
Notes

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%

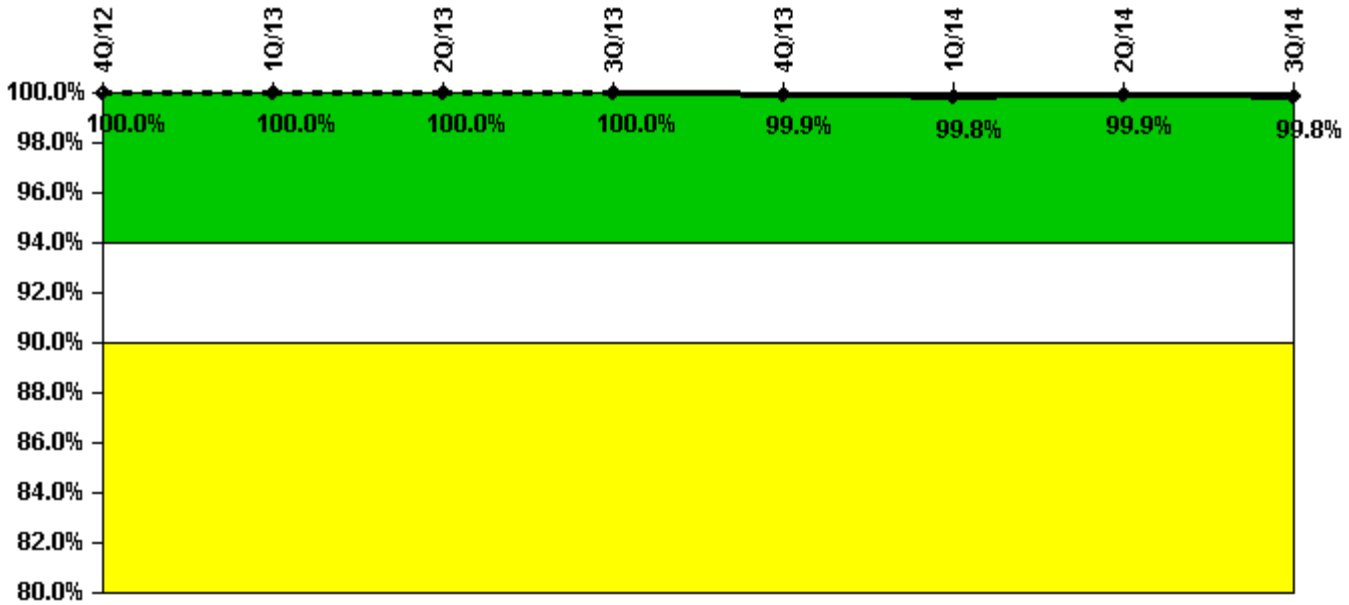
Notes

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



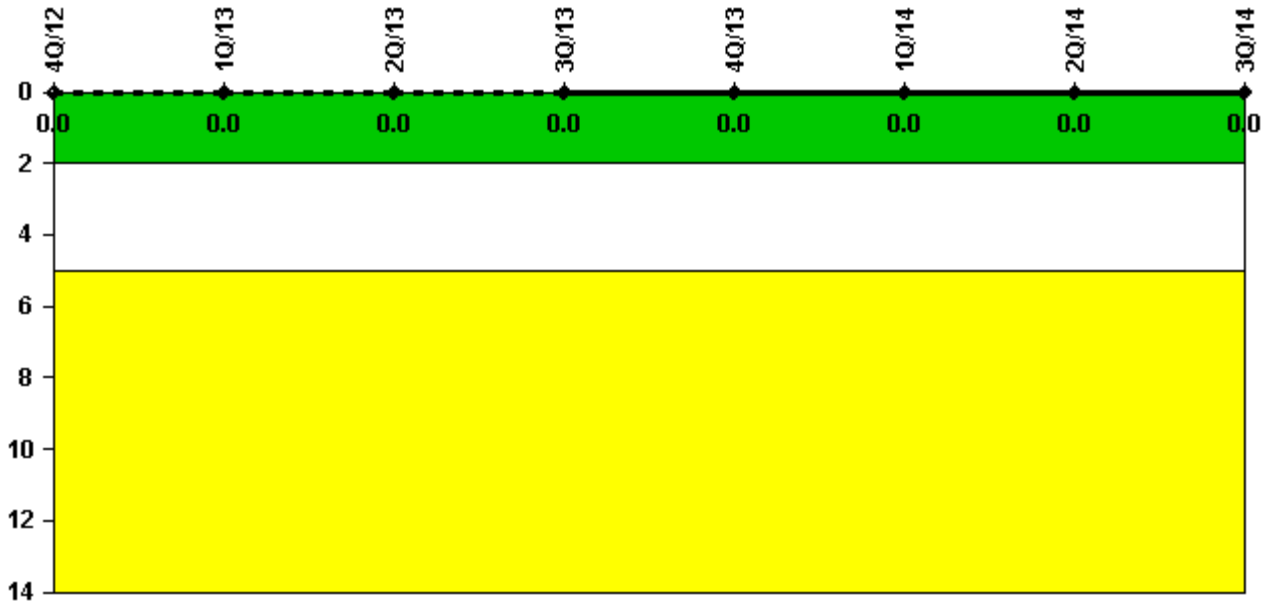
Thresholds: White < 94.0% Yellow < 90.0%

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



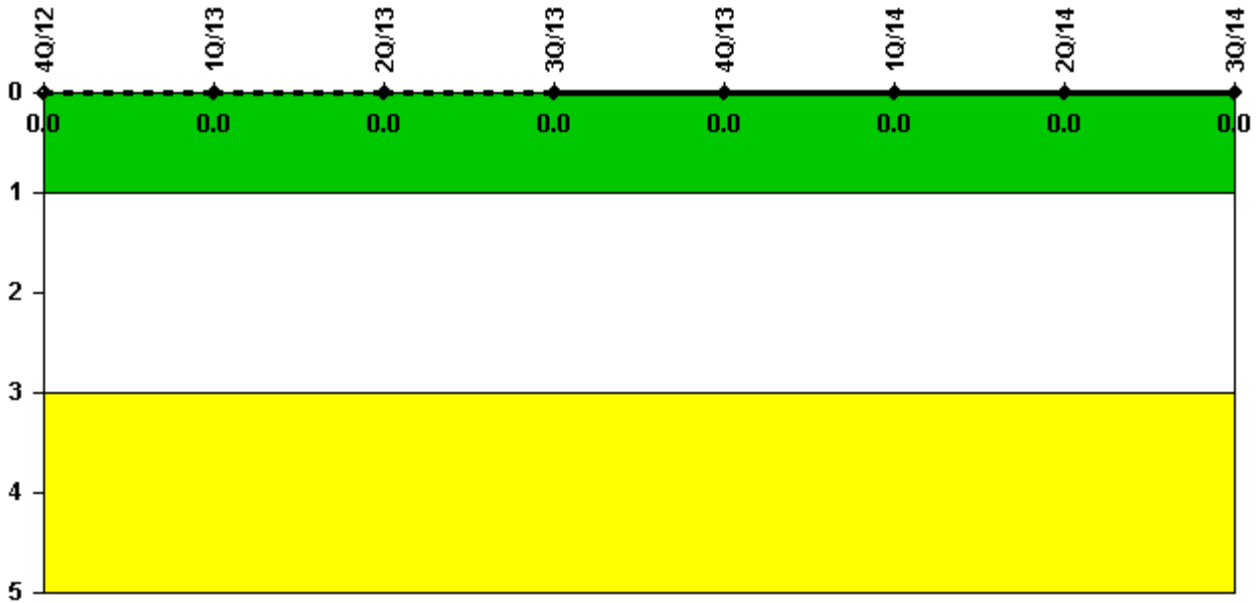
Thresholds: White > 2.0 Yellow > 5.0

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

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	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

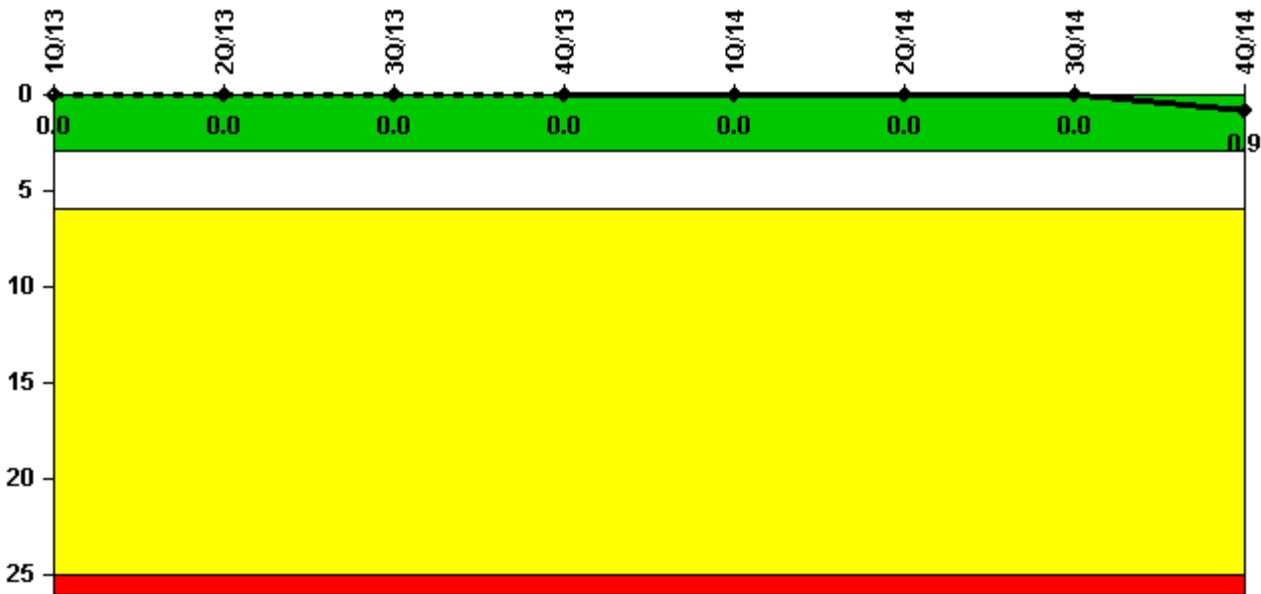
Surry 2

4Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



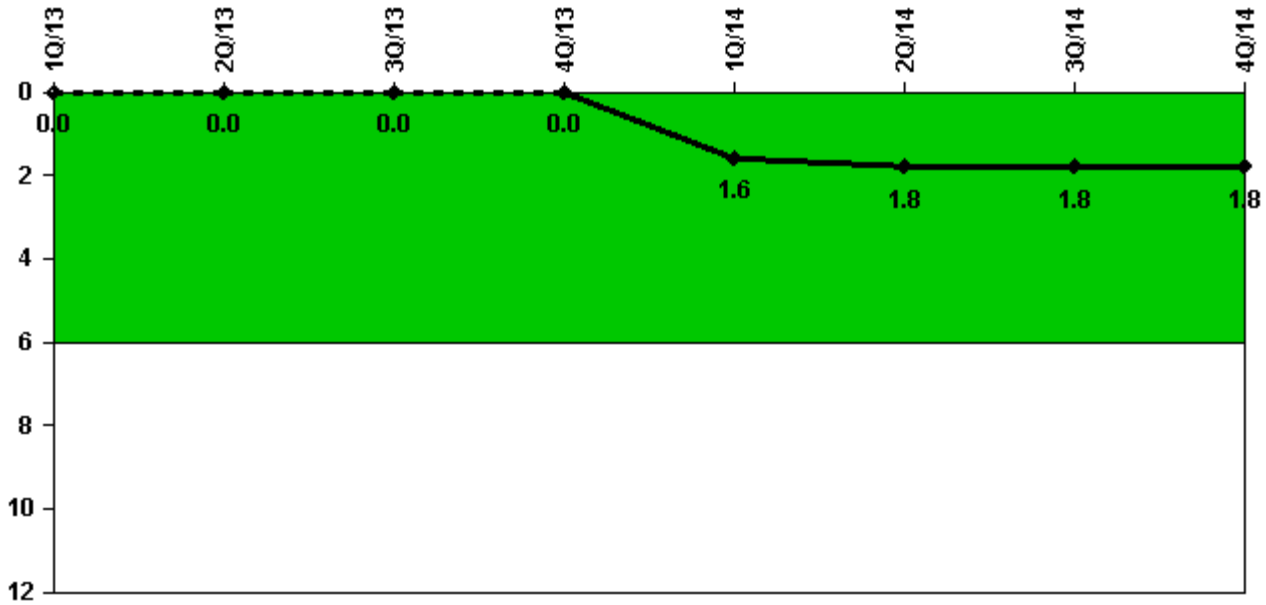
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	2159.0	2184.0	2208.0	2209.0	2107.4	1445.8	2208.0	2155.2
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

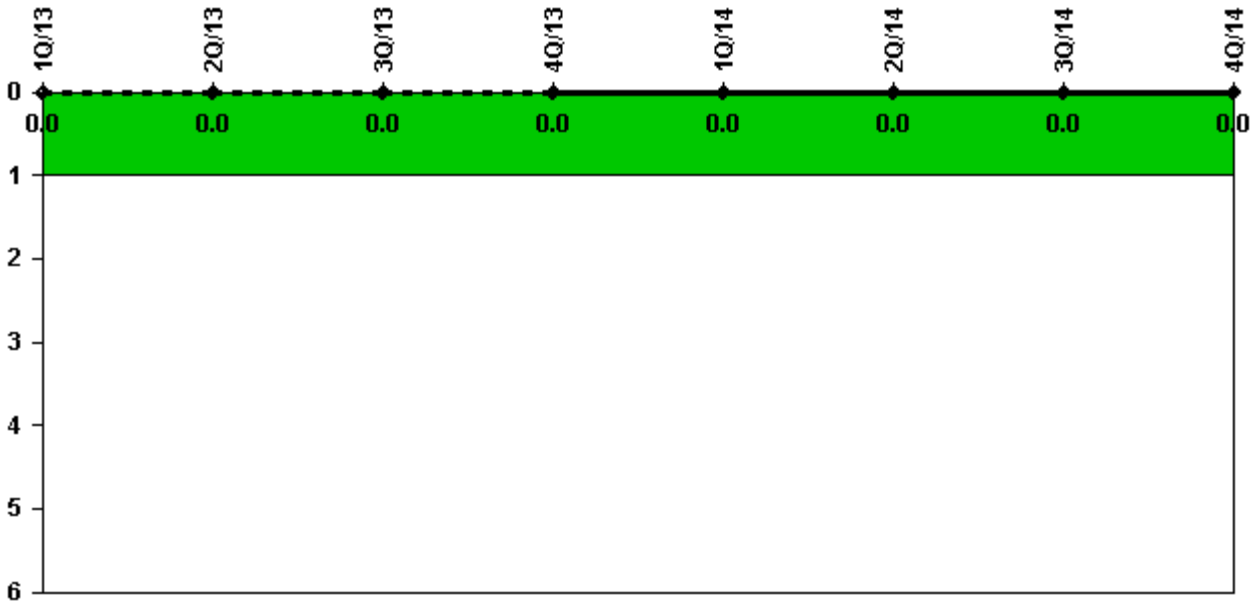
Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned power changes	0	0	0	0	2.0	0	0	0
Critical hours	2159.0	2184.0	2208.0	2209.0	2107.4	1445.8	2208.0	2155.2
Indicator value	0	0	0	0	1.6	1.8	1.8	1.8

Licensee Comments:

3Q/14: A review, prompted by the NRC, determined the March 2014 Unit 2 shutdown to repair a pressurizer spray valve was also an unplanned power change. Historical data was corrected with no change in color.

Unplanned Scrams with Complications



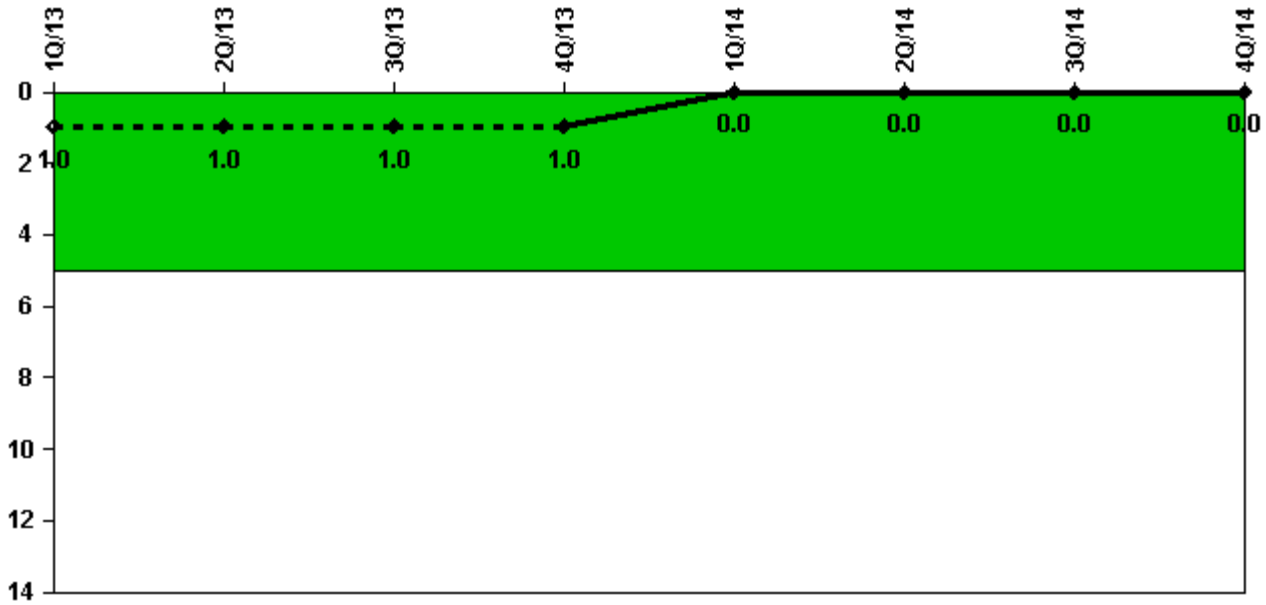
Thresholds: White > 1.0

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

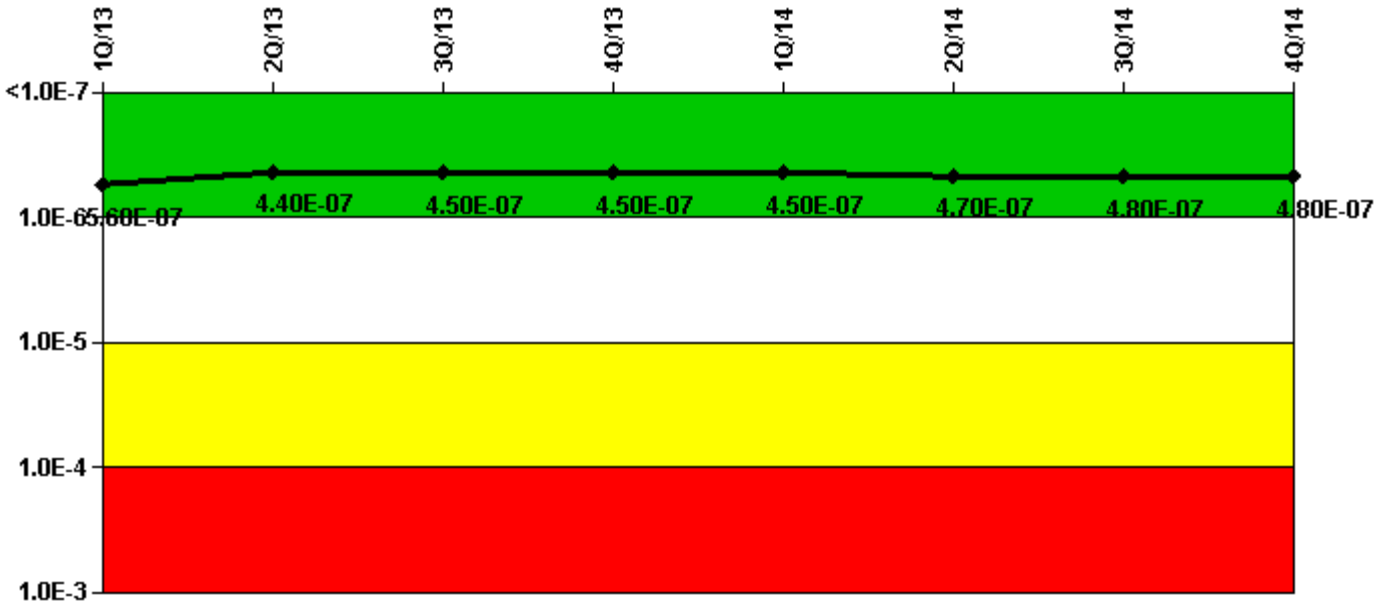
Notes

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)	3.29E-08	8.40E-09	7.50E-09	6.96E-09	5.58E-09	8.52E-10	1.06E-09	1.44E-09
URI (Δ CDF)	5.27E-07	4.34E-07	4.39E-07	4.47E-07	4.49E-07	4.72E-07	4.77E-07	4.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.60E-07	4.40E-07	4.50E-07	4.50E-07	4.50E-07	4.70E-07	4.80E-07	4.80E-07

Licensee Comments:

4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked. A review determined a minor discrepancy of 4 minutes of unavailability for #3 diesel for August 2013. Historical data was changed with no change in color.

2Q/14: Risk Cap Invoked.

1Q/14: Risk Cap Invoked. An assessment determined unavailable hours for December 2012 were not correct. Historical data was corrected with no change in color.

4Q/13: Risk Cap Invoked.

4Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

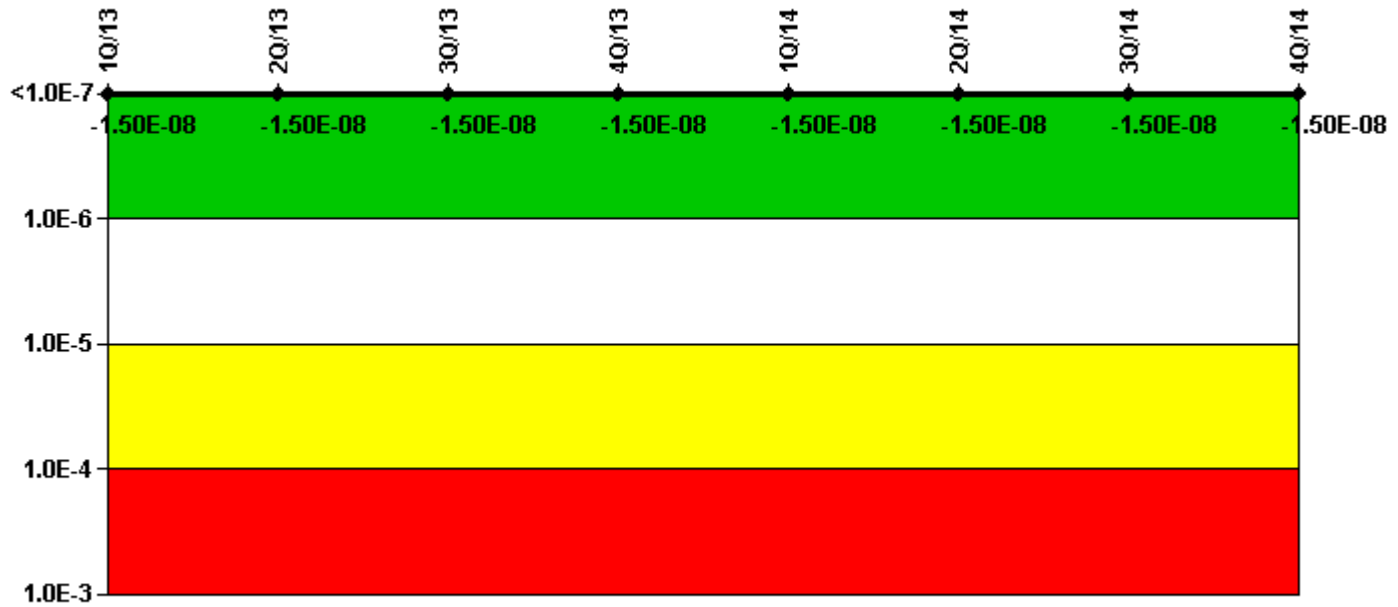
2Q/13: Risk Cap Invoked.

2Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

1Q/13: 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	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (ΔCDF)	-3.94E-10	-4.06E-10	-3.80E-10	-4.78E-10	-4.15E-10	-4.41E-10	-4.89E-10	-6.00E-10
URI (ΔCDF)	-1.43E-08	-1.41E-08	-1.45E-08	-1.44E-08	-1.42E-08	-1.45E-08	-1.42E-08	-1.40E-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	-1.50E-08	-1.50E-08	-1.50E-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).

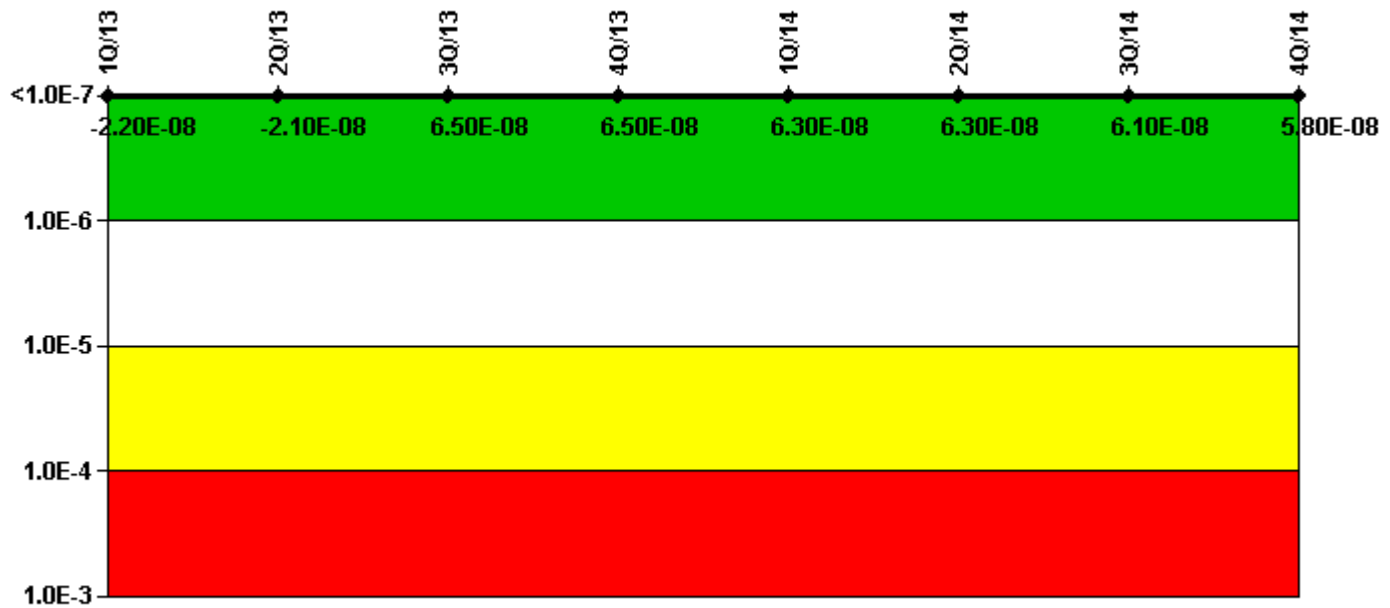
4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

2Q/13: Changed PRA Parameter(s).

1Q/13: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Heat Removal System



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

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	-5.68E-09	-4.23E-09	-2.97E-09	-2.97E-09	-3.23E-09	-3.33E-09	-3.33E-09	-3.25E-09

URI (Δ CDF)	-1.58E-08	-1.64E-08	6.78E-08	6.78E-08	6.62E-08	6.63E-08	6.47E-08	6.15E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-08	-2.10E-08	6.50E-08	6.50E-08	6.30E-08	6.30E-08	6.10E-08	5.80E-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).

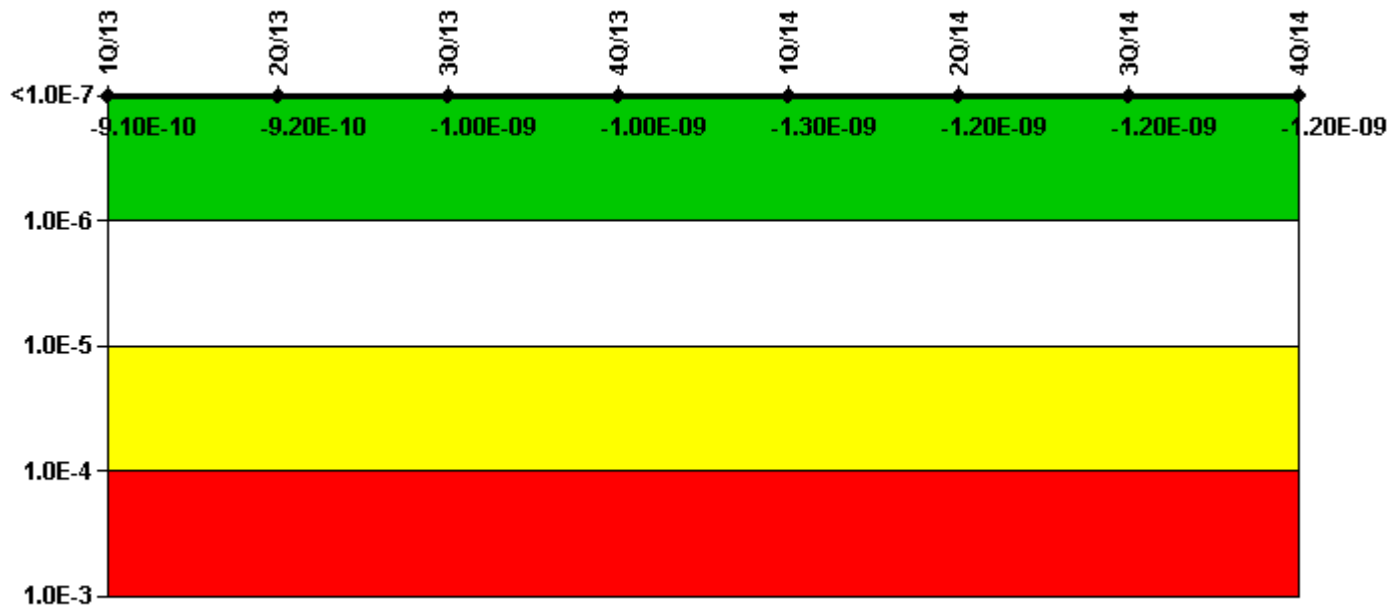
4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

2Q/13: Changed PRA Parameter(s).

1Q/13: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	1.47E-10	1.41E-10	7.80E-11	6.15E-11	-2.25E-10	-2.26E-10	-2.38E-10	-2.42E-10
URI (Δ CDF)	-1.06E-09	-1.07E-09	-1.07E-09	-1.08E-09	-1.06E-09	-9.84E-10	-9.75E-10	-9.65E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.10E-10	-9.20E-10	-1.00E-09	-1.00E-09	-1.30E-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).

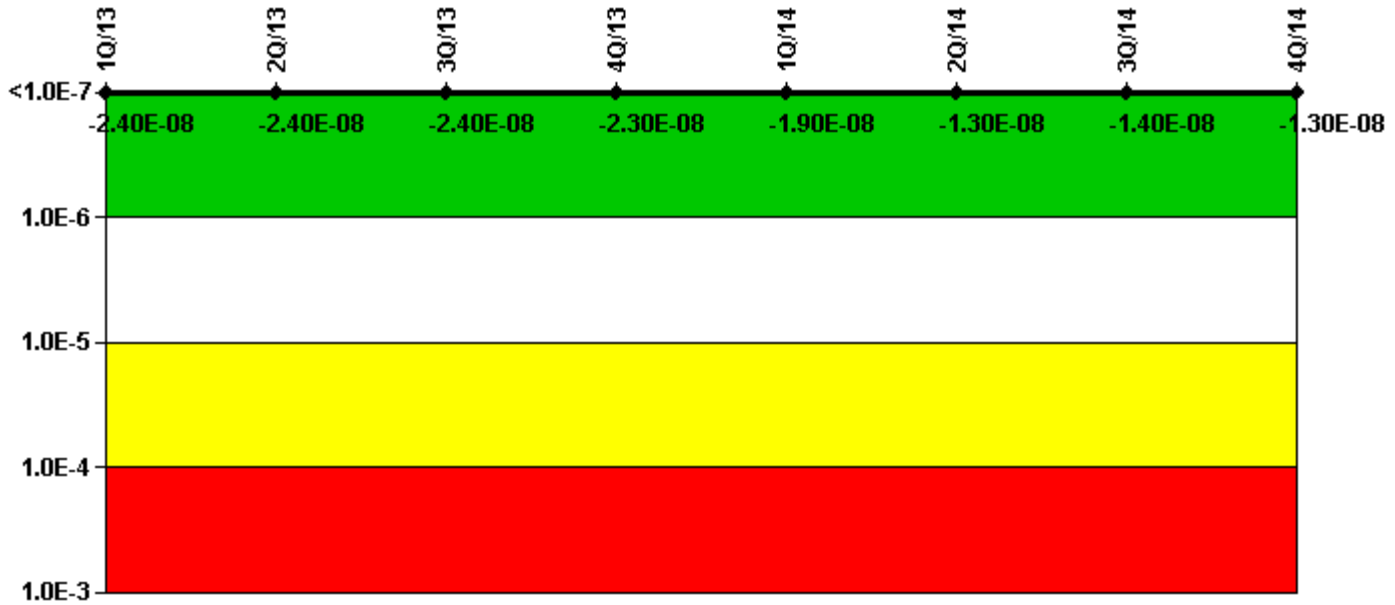
4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

2Q/13: Changed PRA Parameter(s).

1Q/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	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	-1.17E-09	-1.17E-09	-1.09E-09	-1.52E-09	-1.51E-09	-1.40E-09	-1.40E-09	-1.27E-09
URI (Δ CDF)	-2.32E-08	-2.27E-08	-2.25E-08	-2.18E-08	-1.71E-08	-1.21E-08	-1.22E-08	-1.19E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-08	-2.40E-08	-2.40E-08	-2.30E-08	-1.90E-08	-1.30E-08	-1.40E-08	-1.30E-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: 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).

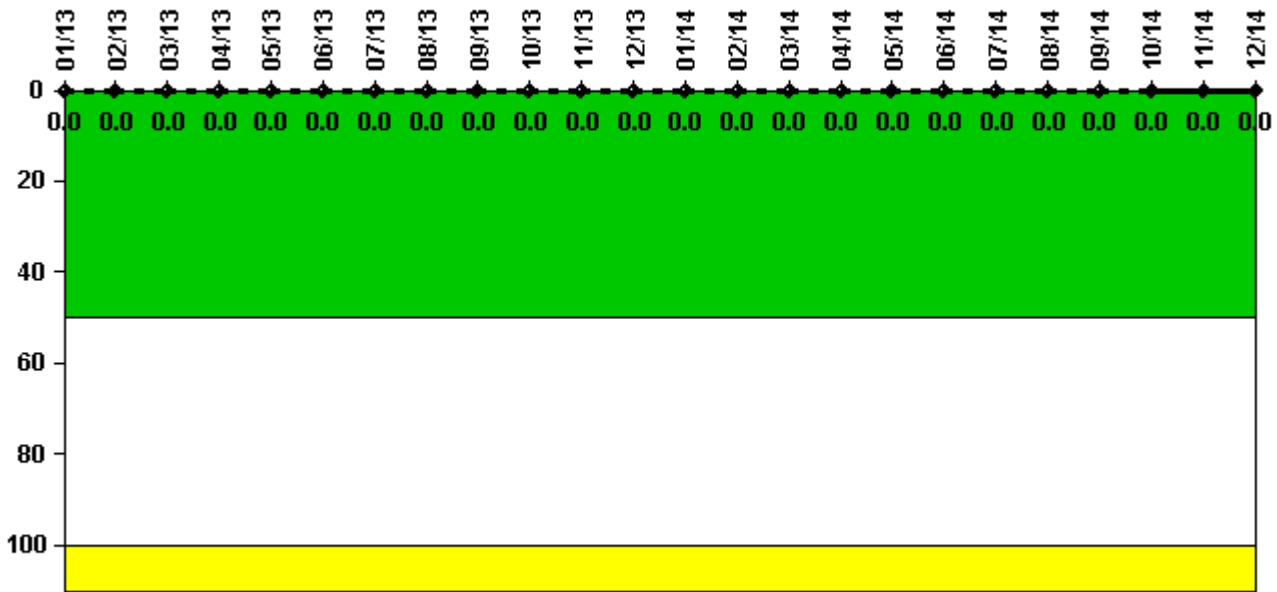
4Q/13: Changed PRA Parameter(s).

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

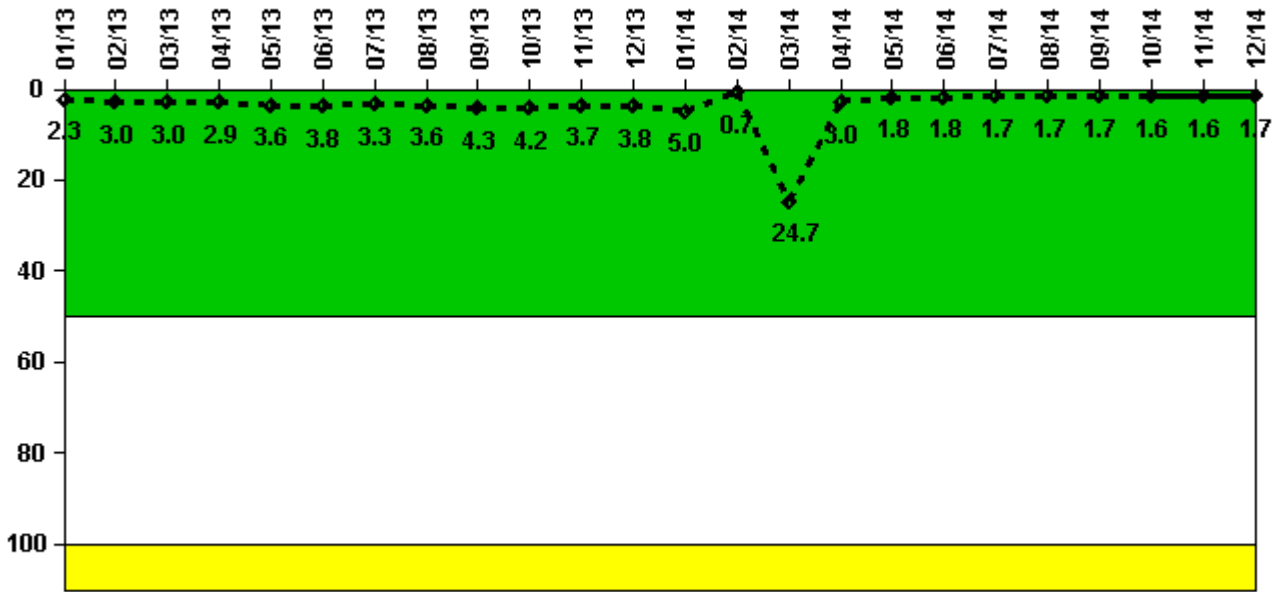
Notes

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	0.000100	0.000131	0.000105	0.000109	0.000120	0.000115	0.000116	0.000138	0.000130	0.000126	0.000230	0.000132
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum												

activity	0.000145	0.000145	0.000236	0.000151	0.000439	0.000066	0.000079	0.000077	0.000100	0.000079	0.000085	0.000109
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

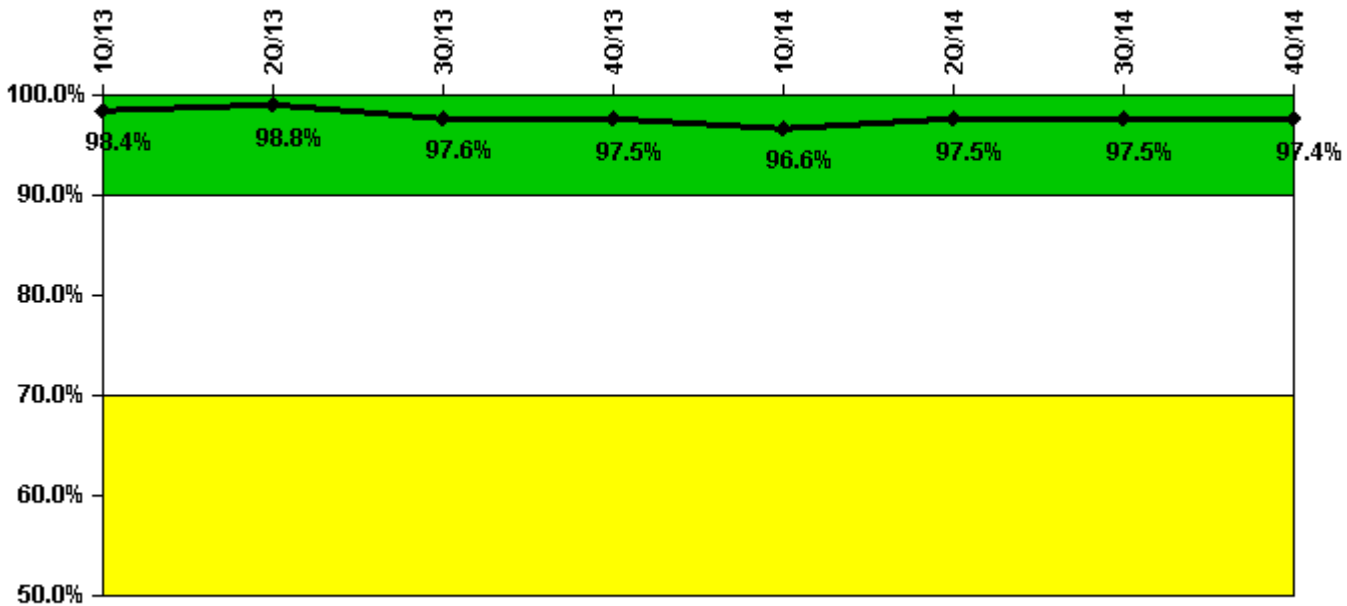
Reactor Coolant System Leakage	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum leakage	0.230	0.300	0.300	0.290	0.360	0.380	0.330	0.360	0.430	0.420	0.370	0.380
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.3	3.0	3.0	2.9	3.6	3.8	3.3	3.6	4.3	4.2	3.7	3.8
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	0.500	0.070	2.470	0.300	0.180	0.180	0.170	0.170	0.170	0.160	0.160	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	5.0	0.7	24.7	3.0	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.7
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Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September 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%

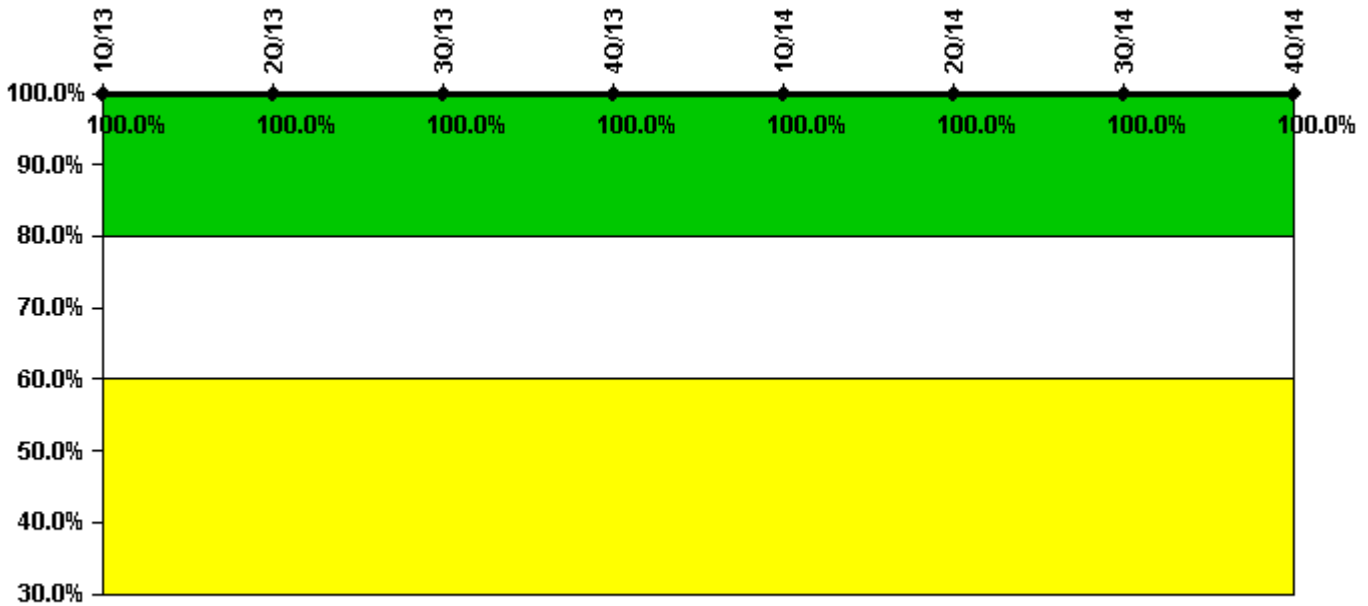
Notes

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%

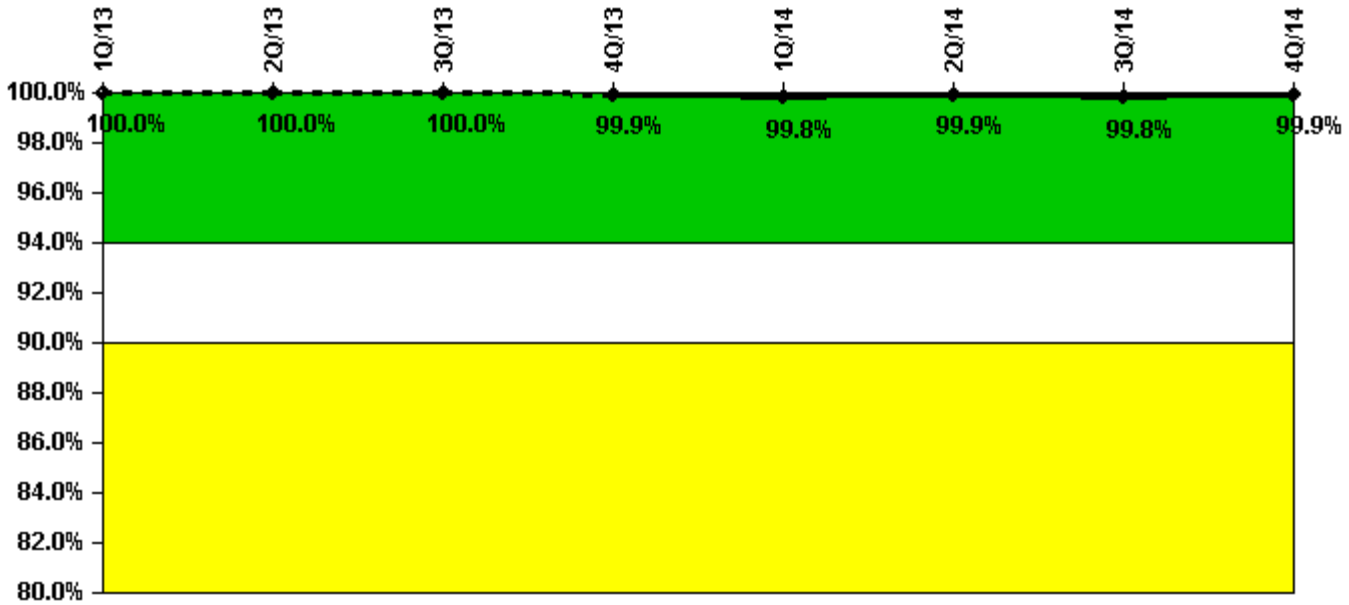
Notes

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



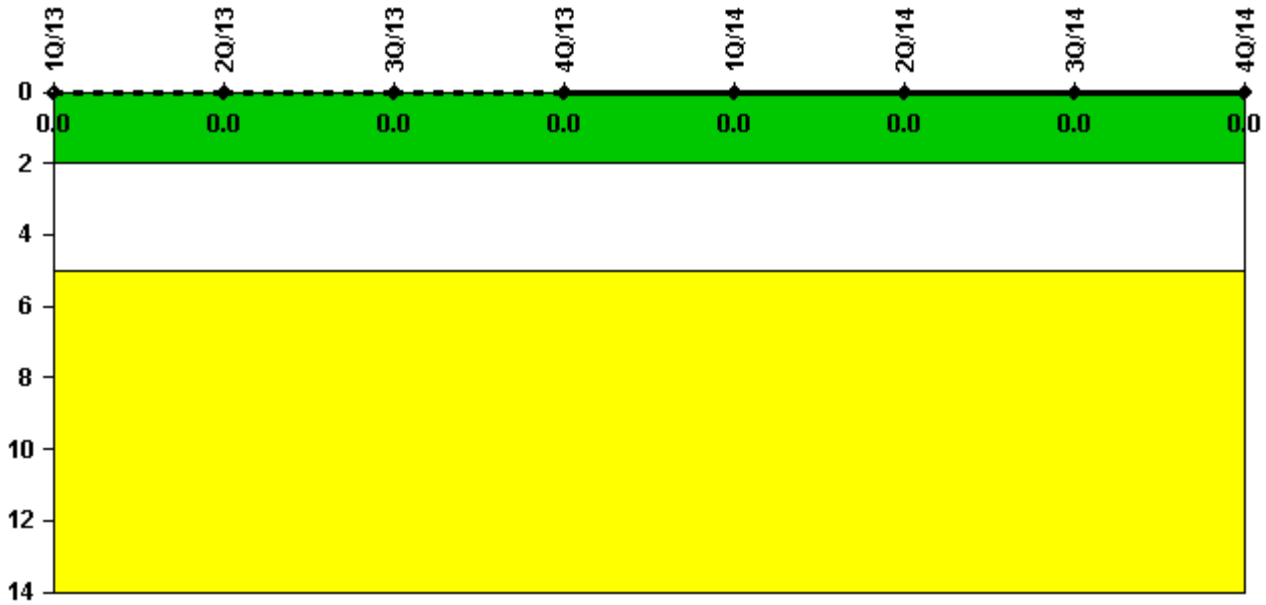
Thresholds: White < 94.0% Yellow < 90.0%

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



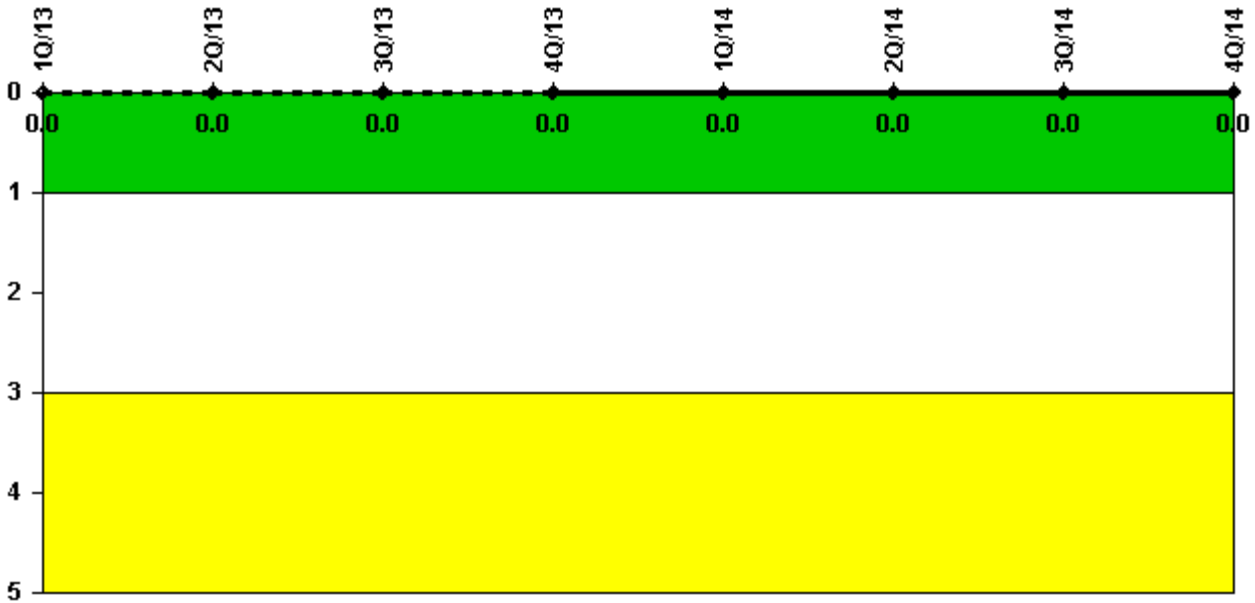
Thresholds: White > 2.0 Yellow > 5.0

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

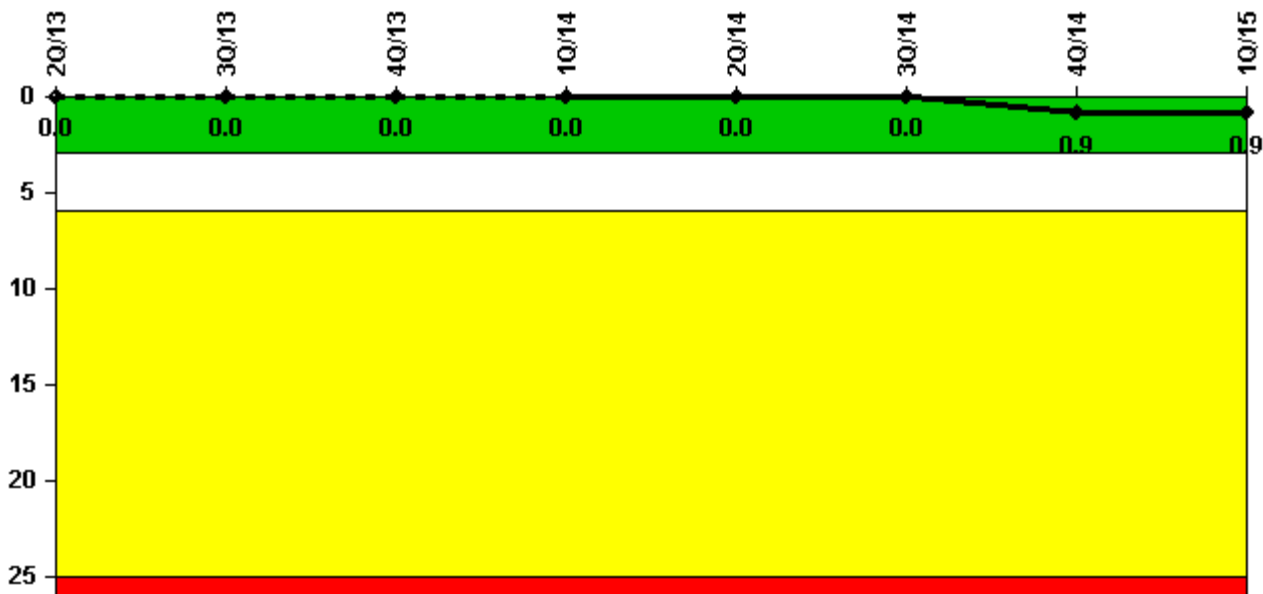
Surry 2

1Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



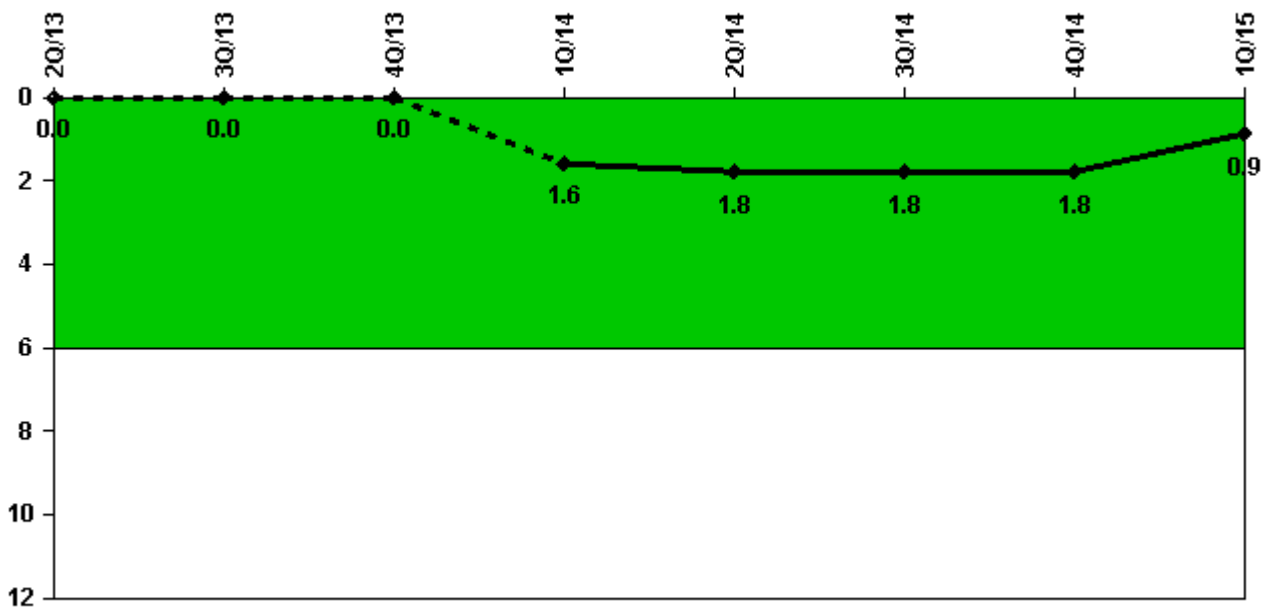
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2184.0	2208.0	2209.0	2107.4	1445.8	2208.0	2155.2	2159.0
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

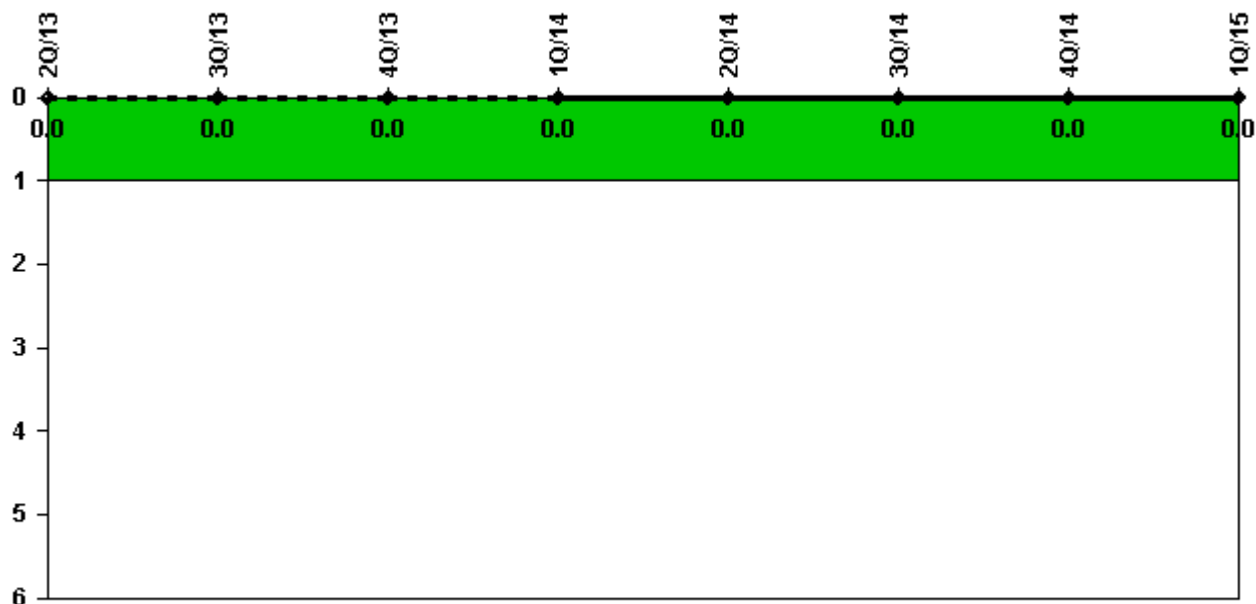
Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned power changes	0	0	0	2.0	0	0	0	1.0
Critical hours	2184.0	2208.0	2209.0	2107.4	1445.8	2208.0	2155.2	2159.0
Indicator value	0	0	0	1.6	1.8	1.8	1.8	0.9

Licensee Comments:

3Q/14: A review, prompted by the NRC, determined the March 2014 Unit 2 shutdown to repair a pressurizer spray valve was also an unplanned power change. Historical data was corrected with no change in color.

Unplanned Scrams with Complications



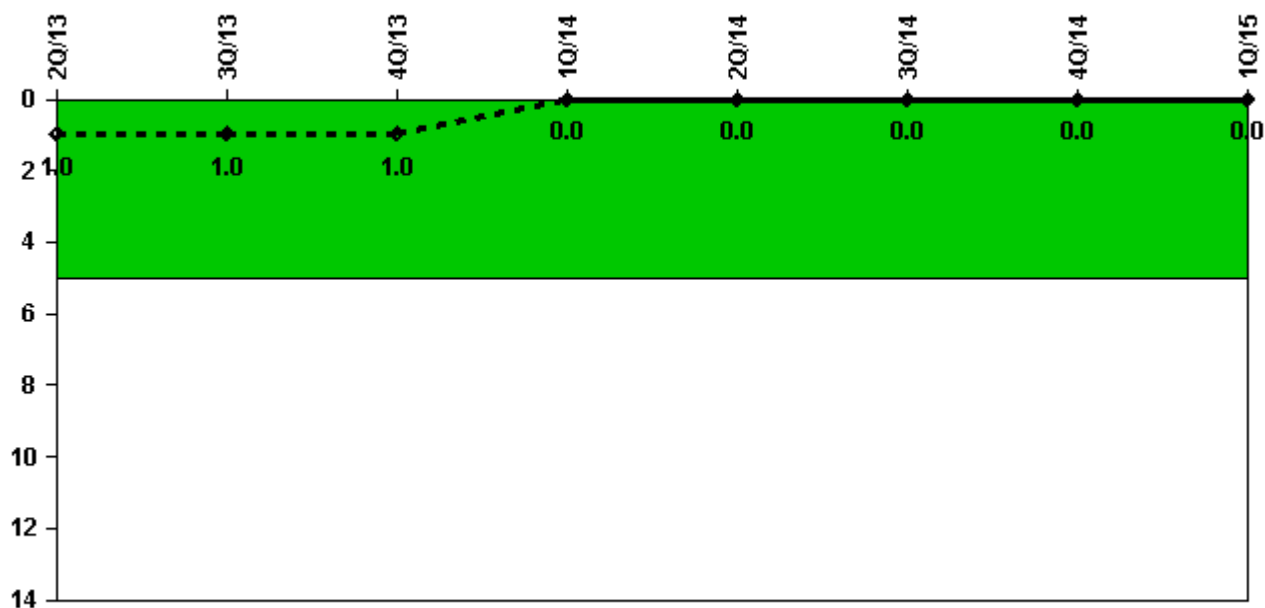
Thresholds: White > 1.0

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)



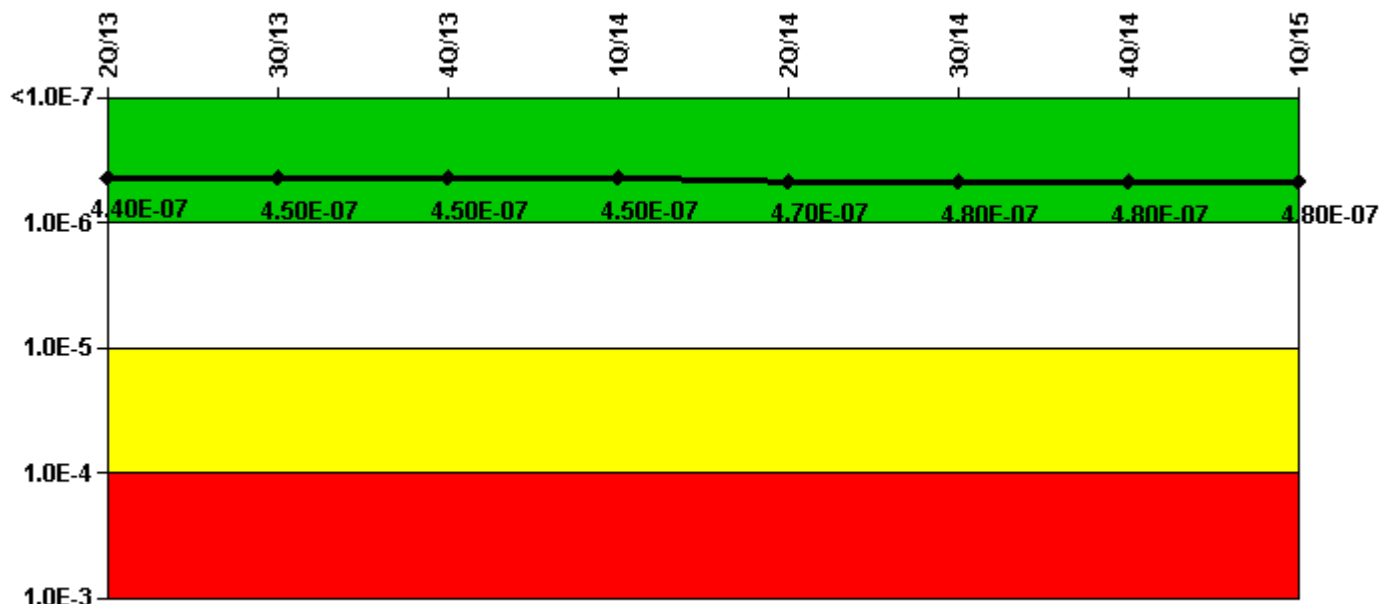
Thresholds: White > 5.0

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)	8.40E-09	7.50E-09	6.96E-09	5.58E-09	8.52E-10	1.06E-09	1.44E-09	2.02E-10
URI (Δ CDF)	4.34E-07	4.39E-07	4.47E-07	4.49E-07	4.72E-07	4.77E-07	4.80E-07	4.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.40E-07	4.50E-07	4.50E-07	4.50E-07	4.70E-07	4.80E-07	4.80E-07	4.80E-07

Licensee Comments:

1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked. A review determined a minor discrepancy of 4 minutes of unavailability for #3 diesel for August 2013. Historical data was changed with no change in color.

2Q/14: Risk Cap Invoked.

1Q/14: Risk Cap Invoked. An assessment determined unavailable hours for December 2012 were not correct. Historical data was corrected with no change in color.

4Q/13: Risk Cap Invoked.

4Q/13: Risk Cap Invoked.

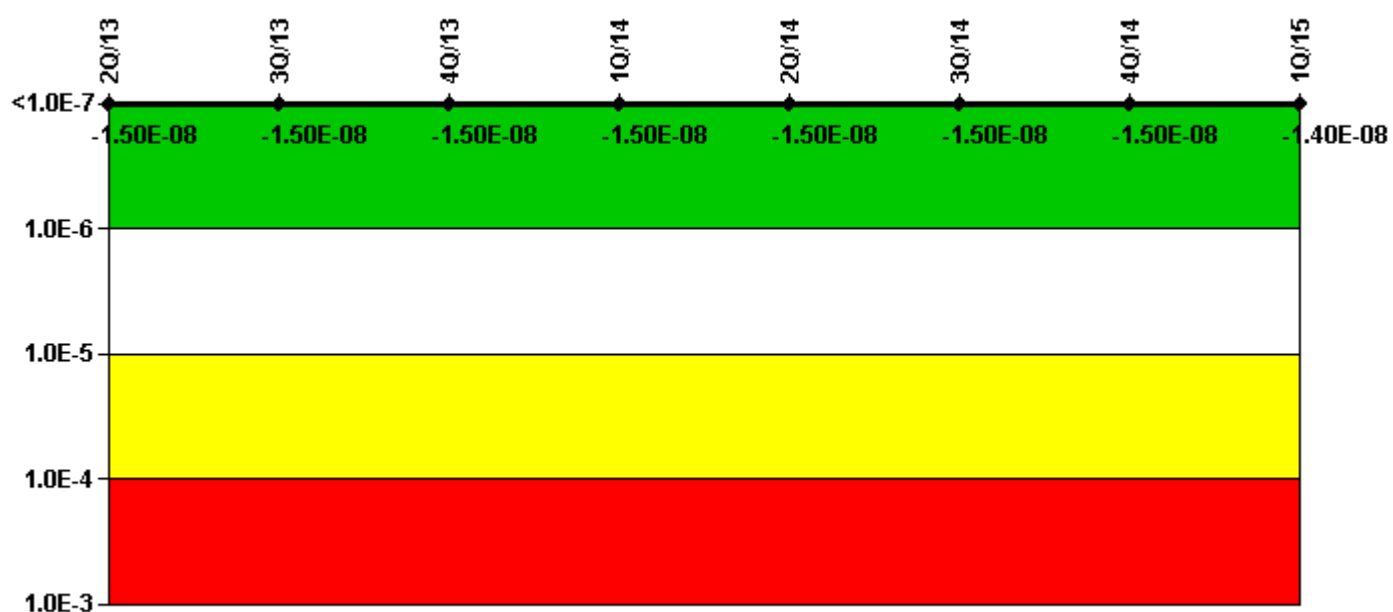
3Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

2Q/13: Risk Cap Invoked.

2Q/13: 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	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (ΔCDF)	-4.06E-10	-3.80E-10	-4.78E-10	-4.15E-10	-4.41E-10	-4.89E-10	-6.00E-10	-6.34E-10
URI (ΔCDF)	-1.41E-08	-1.45E-08	-1.44E-08	-1.42E-08	-1.45E-08	-1.42E-08	-1.40E-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	-1.50E-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).

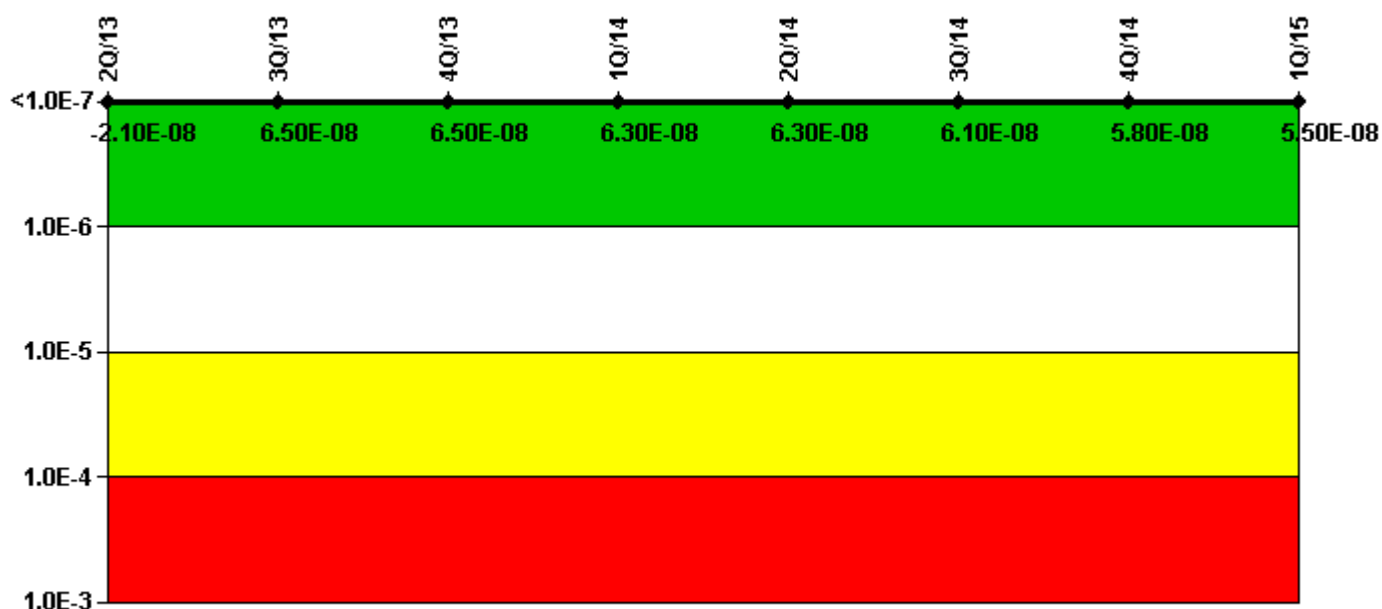
1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

2Q/13: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Heat Removal System



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

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (ΔCDF)	-4.23E-09	-2.97E-09	-2.97E-09	-3.23E-09	-3.33E-09	-3.33E-09	-3.25E-09	-3.25E-09
URI (ΔCDF)	-1.64E-08	6.78E-08	6.78E-08	6.62E-08	6.63E-08	6.47E-08	6.15E-08	5.86E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO

Indicator value	-2.10E-08	6.50E-08	6.50E-08	6.30E-08	6.30E-08	6.10E-08	5.80E-08	5.50E-08
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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).

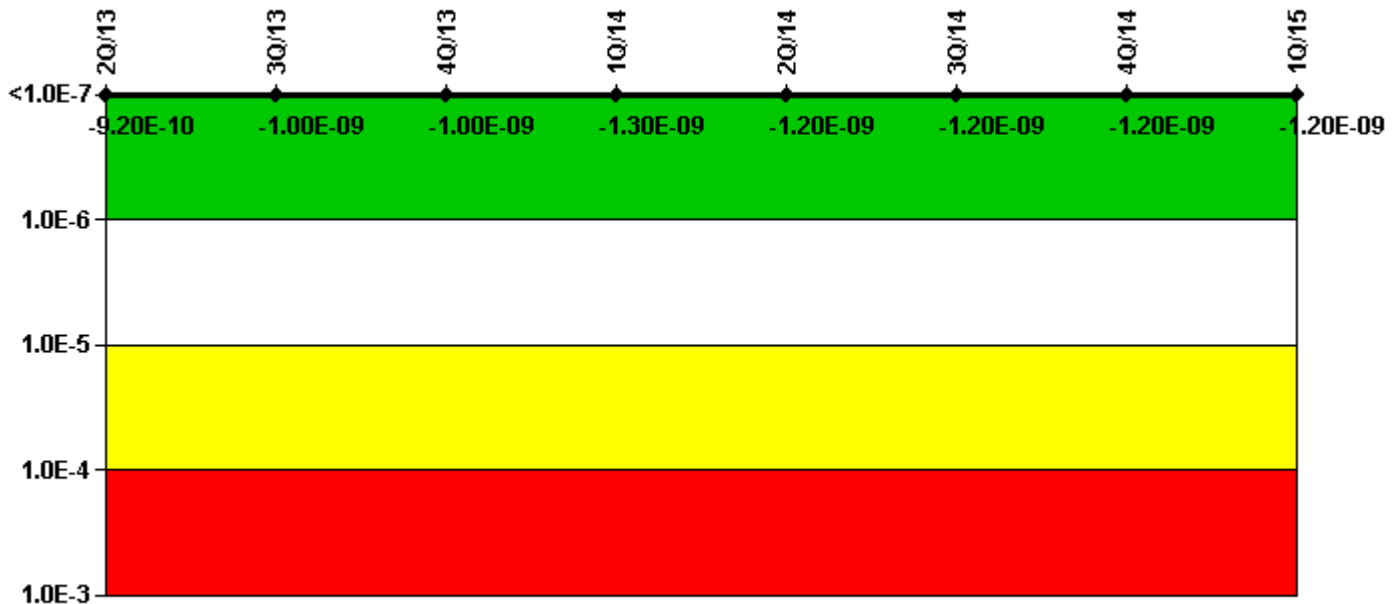
1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

2Q/13: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
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UAI (Δ CDF)	1.41E-10	7.80E-11	6.15E-11	-2.25E-10	-2.26E-10	-2.38E-10	-2.42E-10	-2.65E-10
URI (Δ CDF)	-1.07E-09	-1.07E-09	-1.08E-09	-1.06E-09	-9.84E-10	-9.75E-10	-9.65E-10	-9.46E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.20E-10	-1.00E-09	-1.00E-09	-1.30E-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).

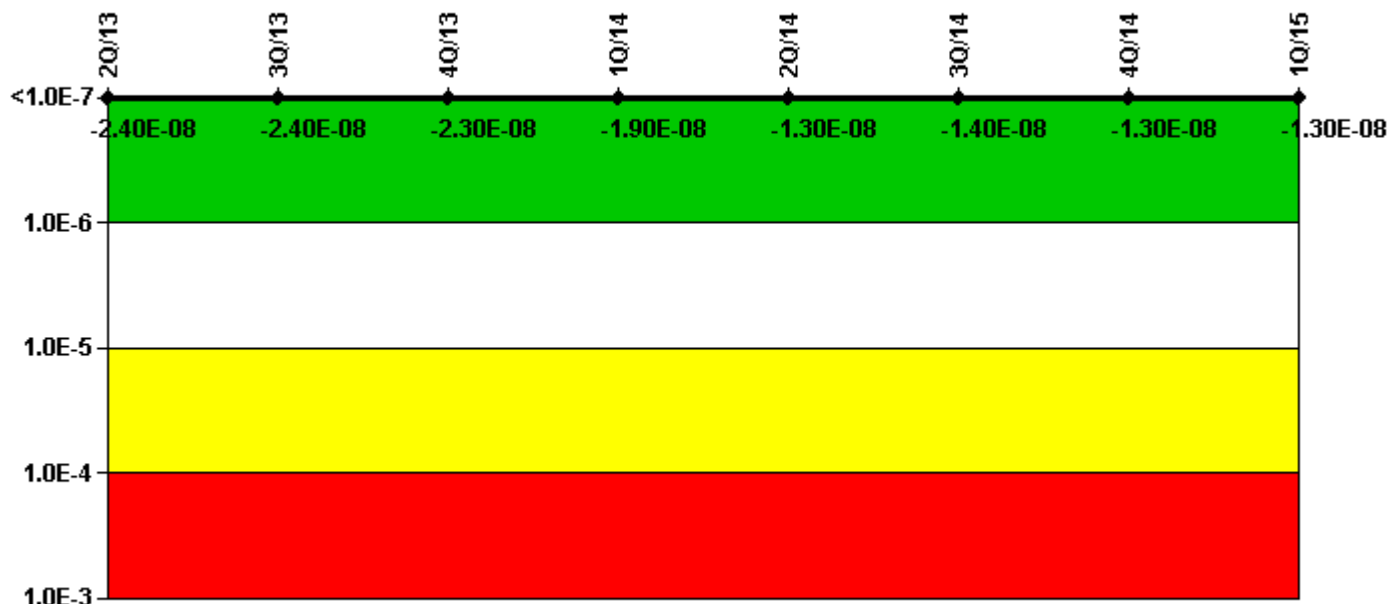
1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

2Q/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	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	-1.17E-09	-1.09E-09	-1.52E-09	-1.51E-09	-1.40E-09	-1.40E-09	-1.27E-09	-1.27E-09
URI (Δ CDF)	-2.27E-08	-2.25E-08	-2.18E-08	-1.71E-08	-1.21E-08	-1.22E-08	-1.19E-08	-1.13E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-08	-2.40E-08	-2.30E-08	-1.90E-08	-1.30E-08	-1.40E-08	-1.30E-08	-1.30E-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).

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.

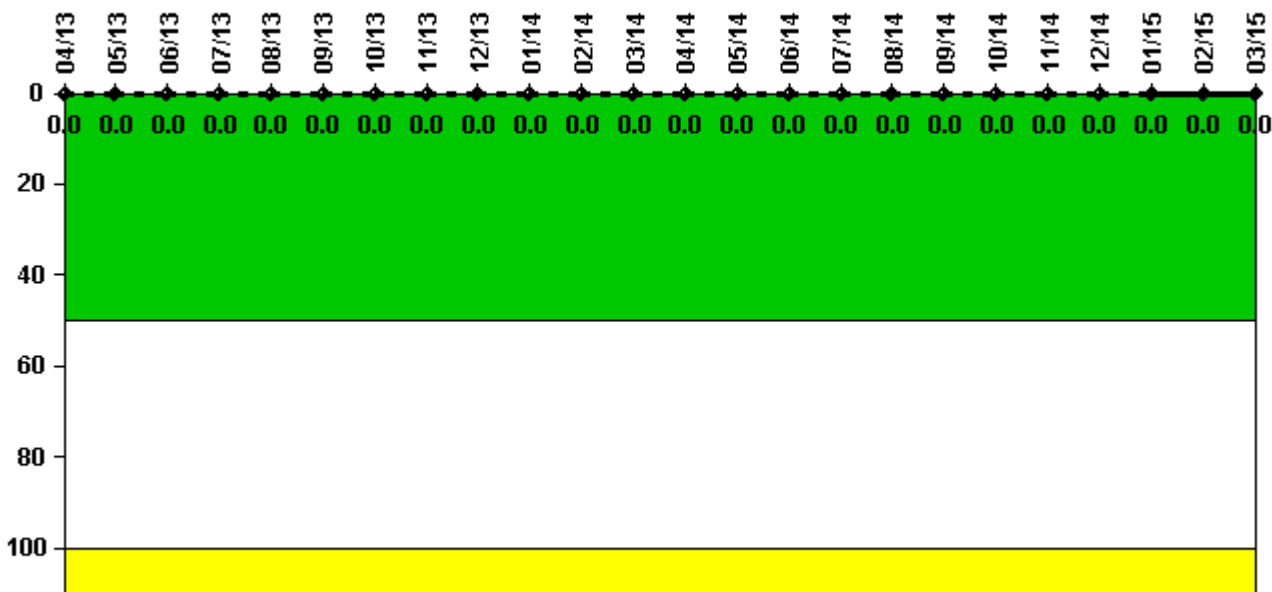
1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

2Q/13: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

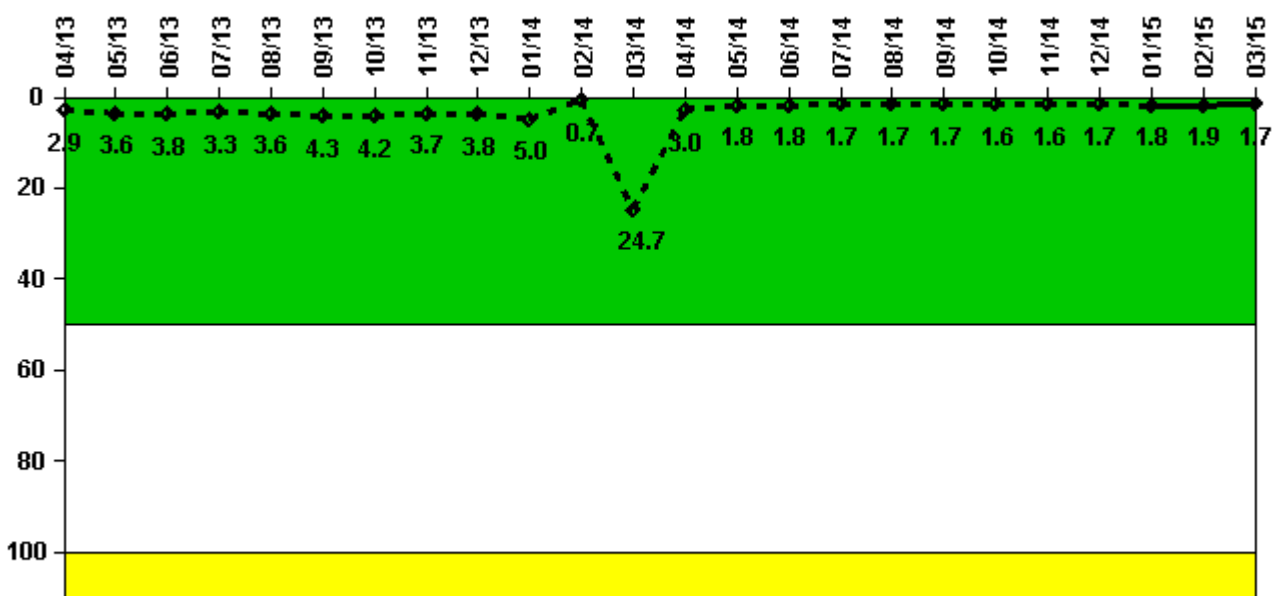
Notes

Reactor Coolant System Activity	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum activity	0.000109	0.000120	0.000115	0.000116	0.000138	0.000130	0.000126	0.000230	0.000132	0.000145	0.000145	0.000236
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum activity	0.000151	0.000439	0.000066	0.000079	0.000077	0.000100	0.000079	0.000085	0.000109	0.000095	0.000138	0.000113
Technical												

specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

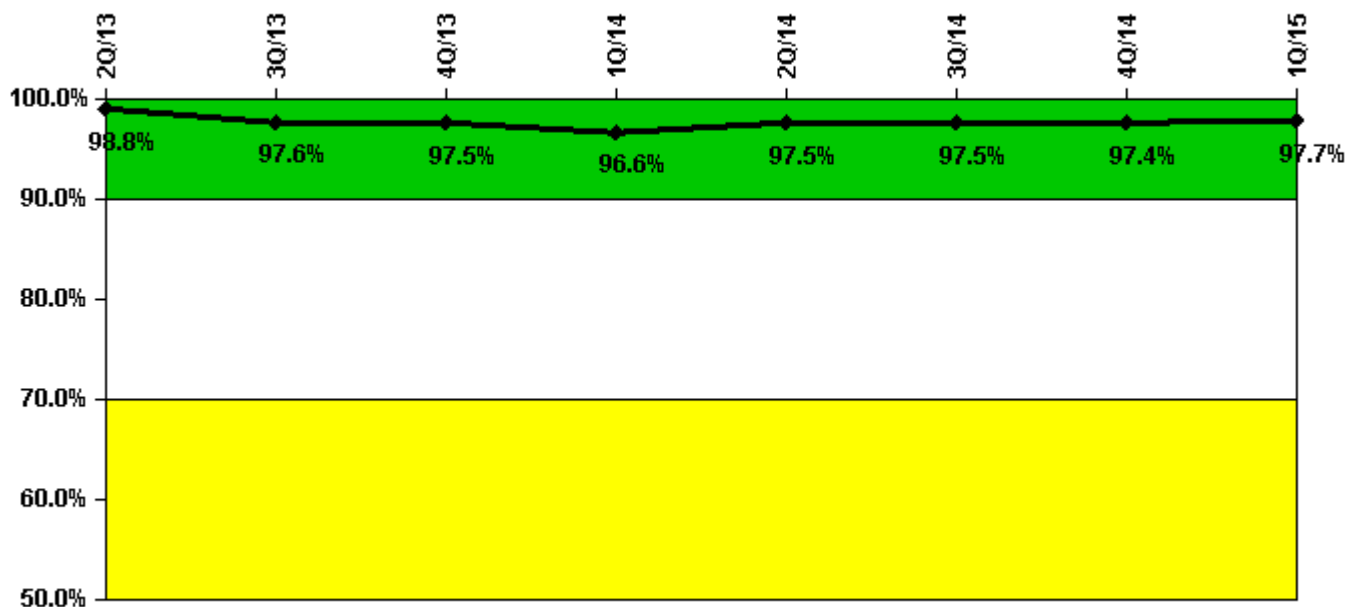
Notes

Reactor Coolant System Leakage	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum leakage	0.290	0.360	0.380	0.330	0.360	0.430	0.420	0.370	0.380	0.500	0.070	2.470
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.9	3.6	3.8	3.3	3.6	4.3	4.2	3.7	3.8	5.0	0.7	24.7
Reactor Coolant System Leakage	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum leakage	0.300	0.180	0.180	0.170	0.170	0.170	0.160	0.160	0.170	0.180	0.190	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	3.0	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.7	1.8	1.9	1.7

Licensee Comments:

6/13: Maximum RCS Identified Leakage for Unit 1 was reported incorrectly in September 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%

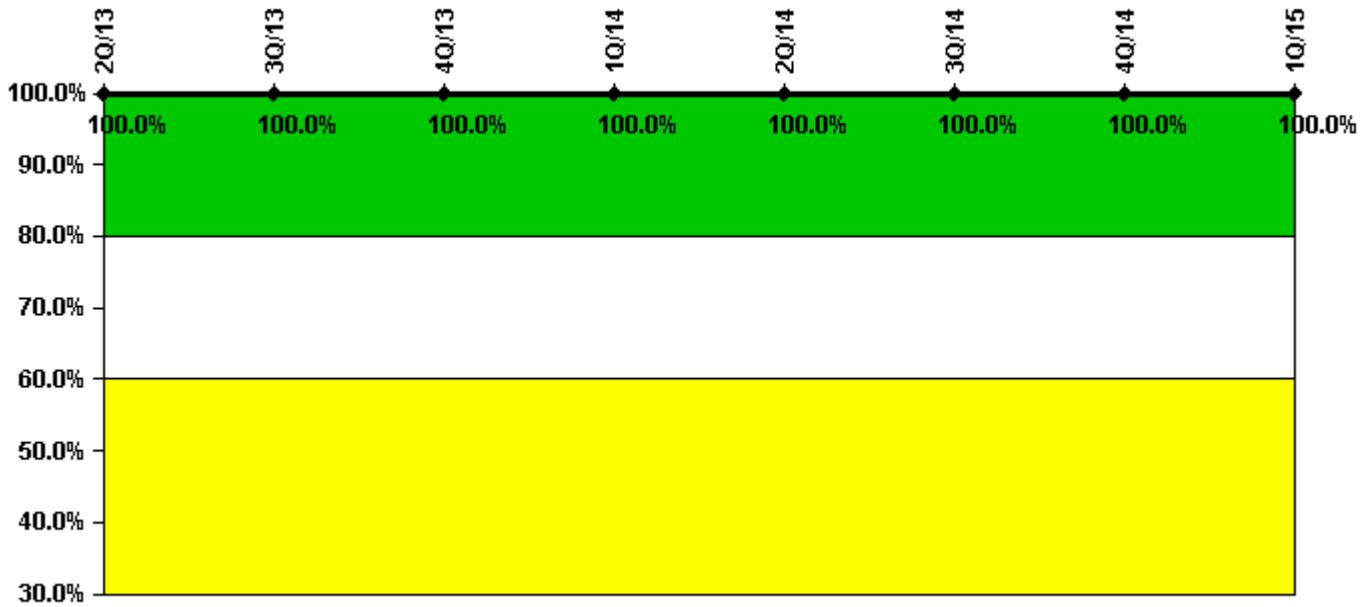
Notes

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%

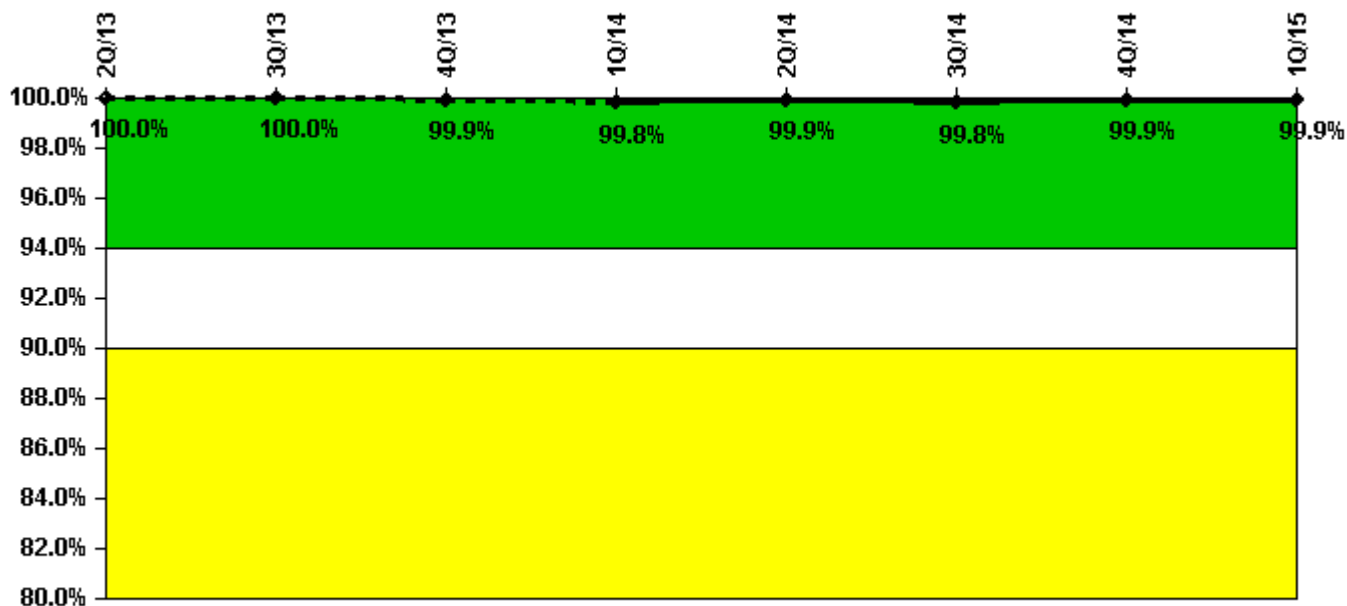
Notes

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



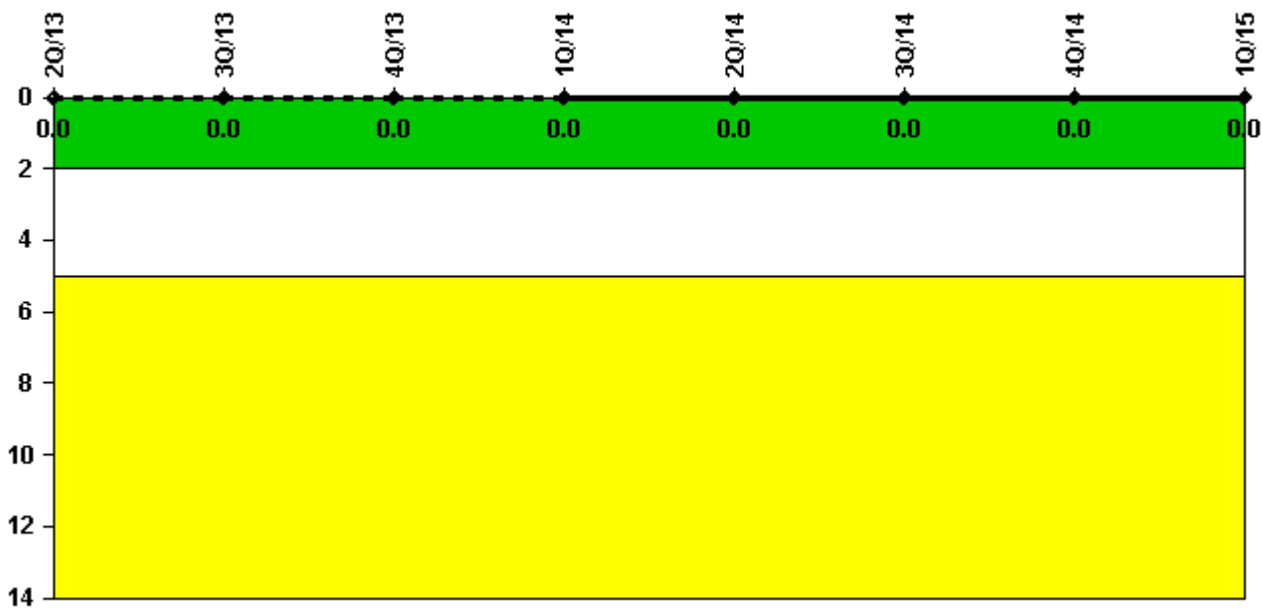
Thresholds: White < 94.0% Yellow < 90.0%

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



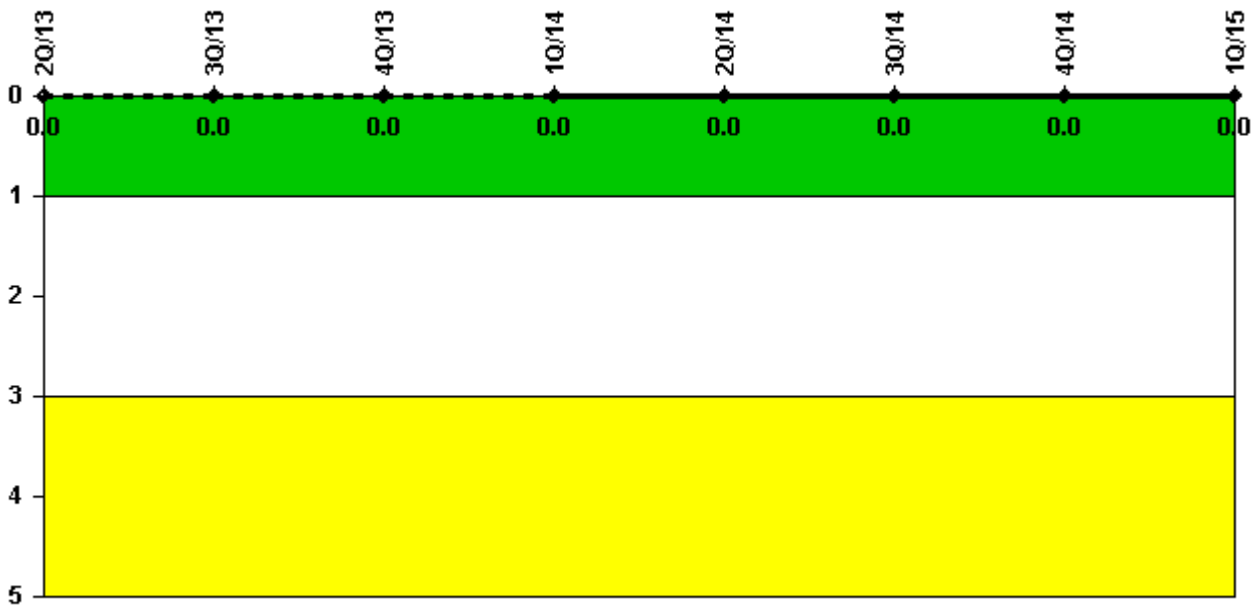
Thresholds: White > 2.0 Yellow > 5.0

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

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

Last Modified: April 23, 2015

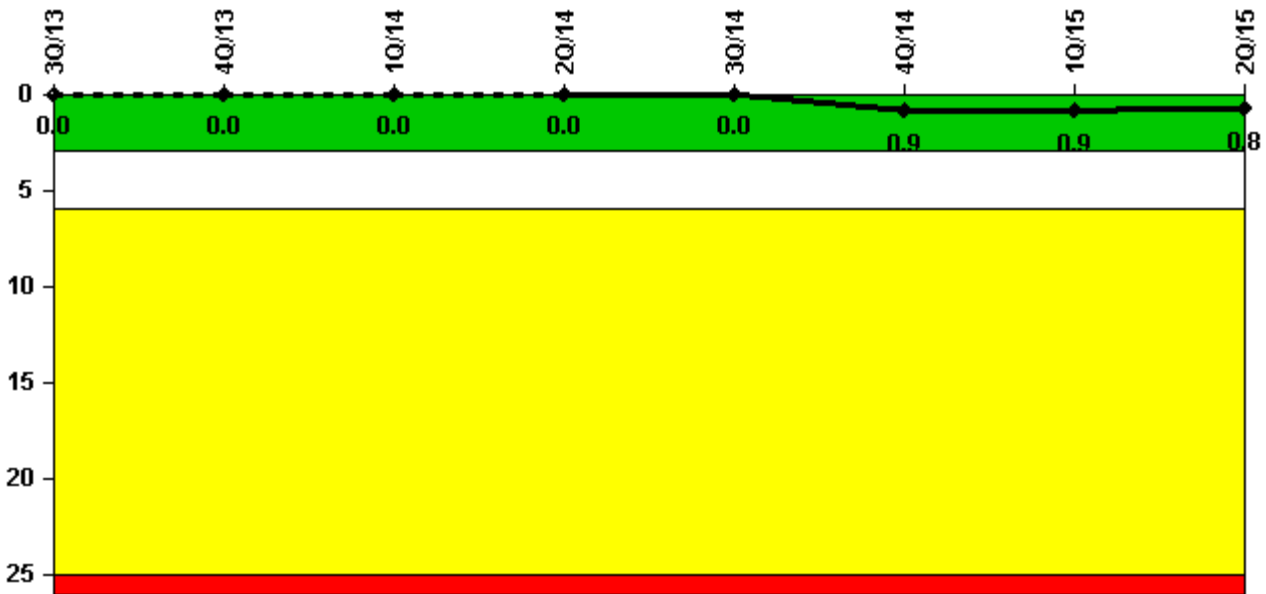
Surry 2

2Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



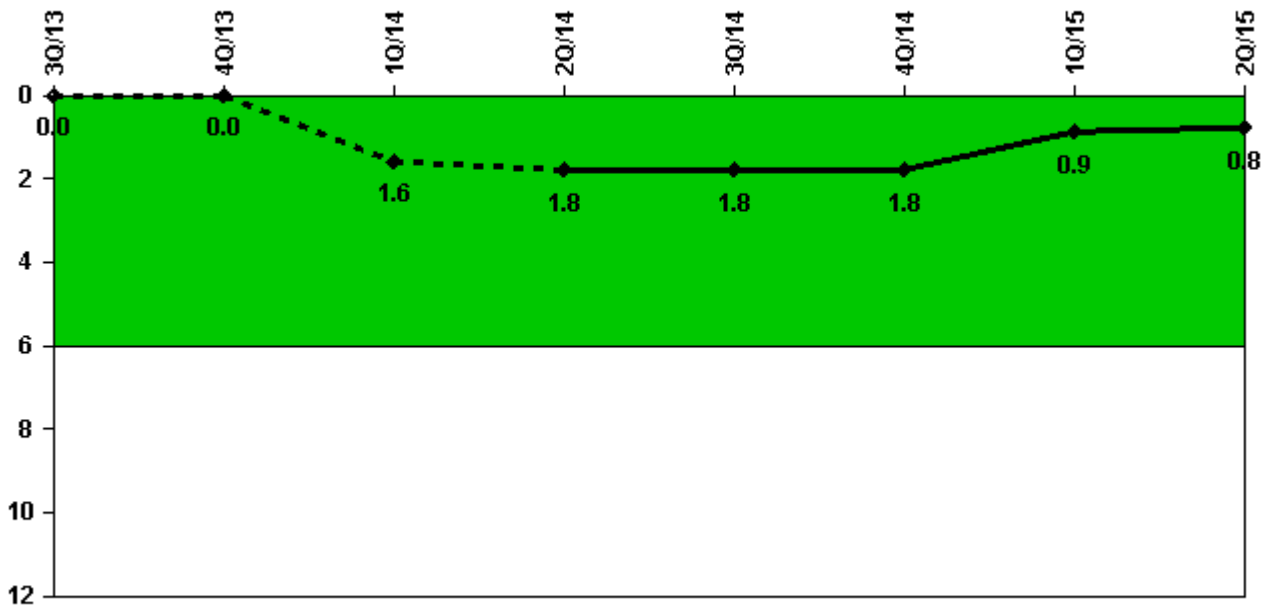
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	2107.4	1445.8	2208.0	2155.2	2159.0	2184.0
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

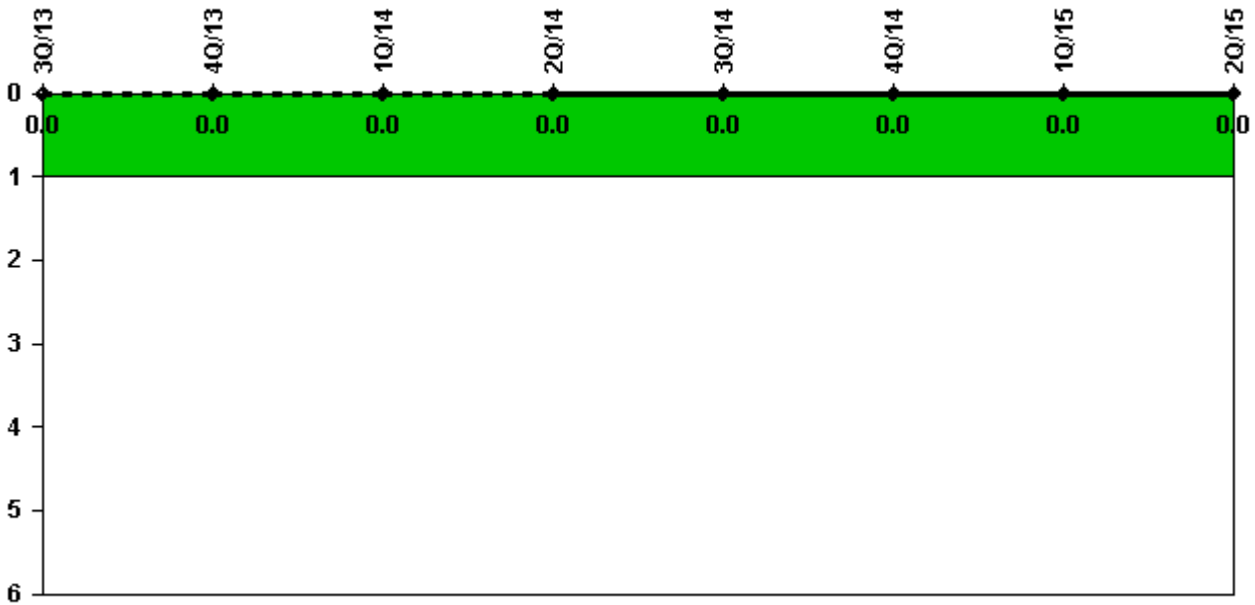
Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned power changes	0	0	2.0	0	0	0	1.0	0
Critical hours	2208.0	2209.0	2107.4	1445.8	2208.0	2155.2	2159.0	2184.0
Indicator value	0	0	1.6	1.8	1.8	1.8	0.9	0.8

Licensee Comments:

3Q/14: A review, prompted by the NRC, determined the March 2014 Unit 2 shutdown to repair a pressurizer spray valve was also an unplanned power change. Historical data was corrected with no change in color.

Unplanned Scrams with Complications



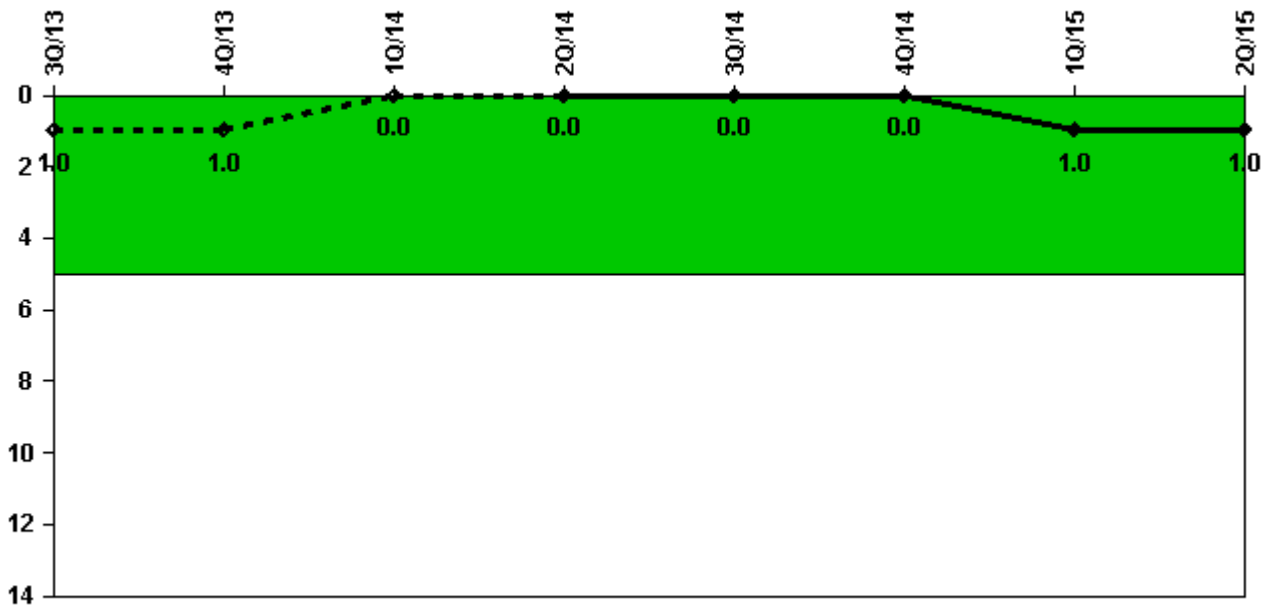
Thresholds: White > 1.0

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

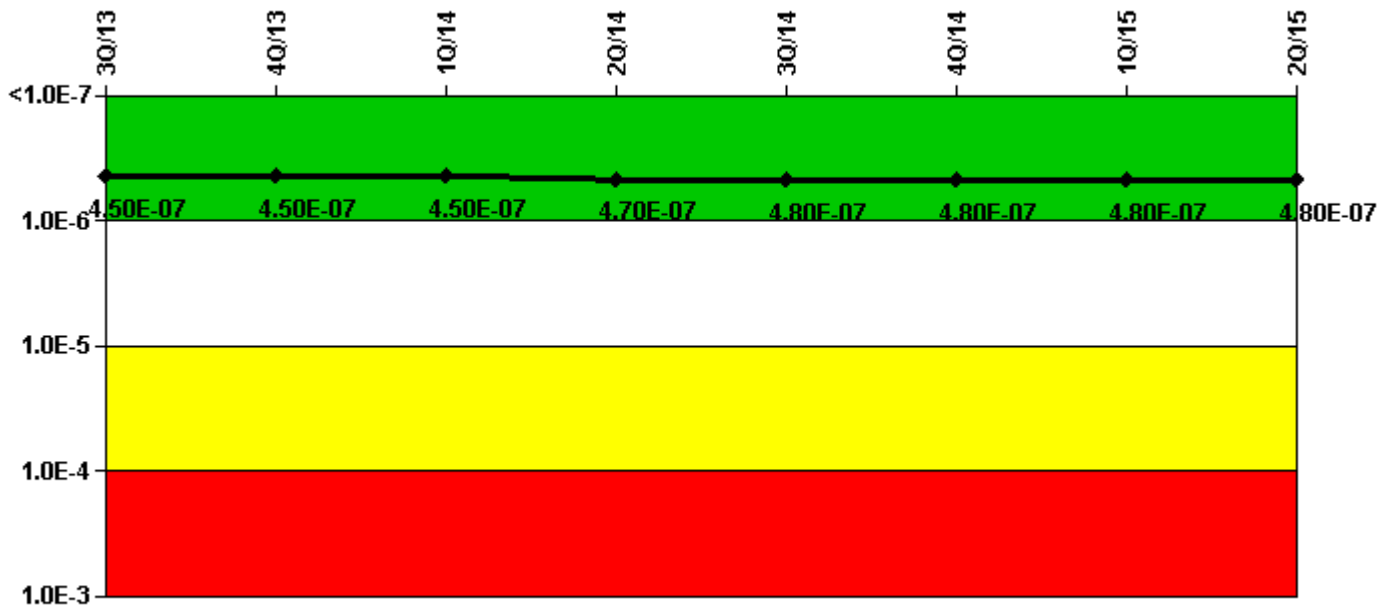
Notes

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 (Δ CDF)	7.50E-09	6.96E-09	5.58E-09	8.52E-10	1.06E-09	1.44E-09	2.02E-10	-1.06E-09
URI (Δ CDF)	4.39E-07	4.47E-07	4.49E-07	4.72E-07	4.77E-07	4.80E-07	4.80E-07	4.83E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.50E-07	4.50E-07	4.50E-07	4.70E-07	4.80E-07	4.80E-07	4.80E-07	4.80E-07

Licensee Comments:

2Q/15: Risk Cap Invoked.

1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked. A review determined a minor discrepancy of 4 minutes of unavailability for #3 diesel for August 2013. Historical data was changed with no change in color.

2Q/14: Risk Cap Invoked.

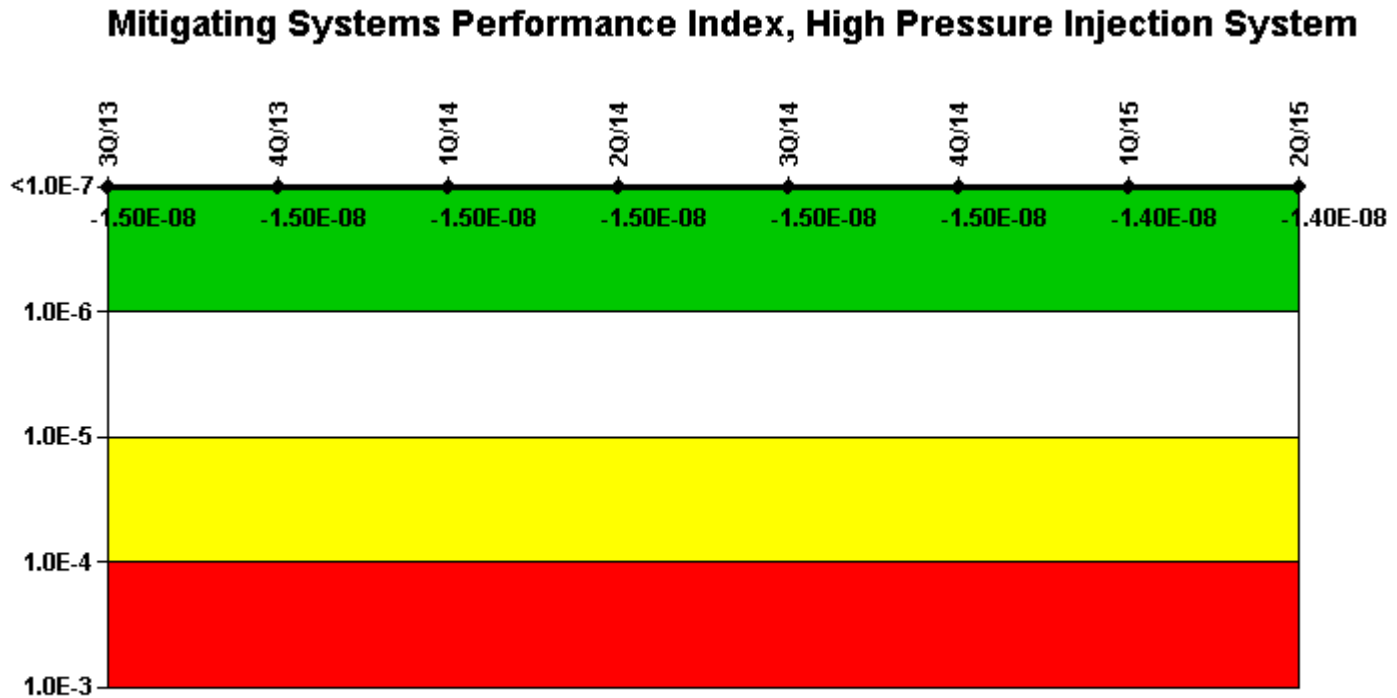
1Q/14: Risk Cap Invoked. An assessment determined unavailable hours for December 2012 were not correct. Historical data was corrected with no change in color.

4Q/13: Risk Cap Invoked.

4Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	-3.80E-10	-4.78E-10	-4.15E-10	-4.41E-10	-4.89E-10	-6.00E-10	-6.34E-10	-6.29E-10
URI (ΔCDF)	-1.45E-08	-1.44E-08	-1.42E-08	-1.45E-08	-1.42E-08	-1.40E-08	-1.36E-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	-1.50E-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).

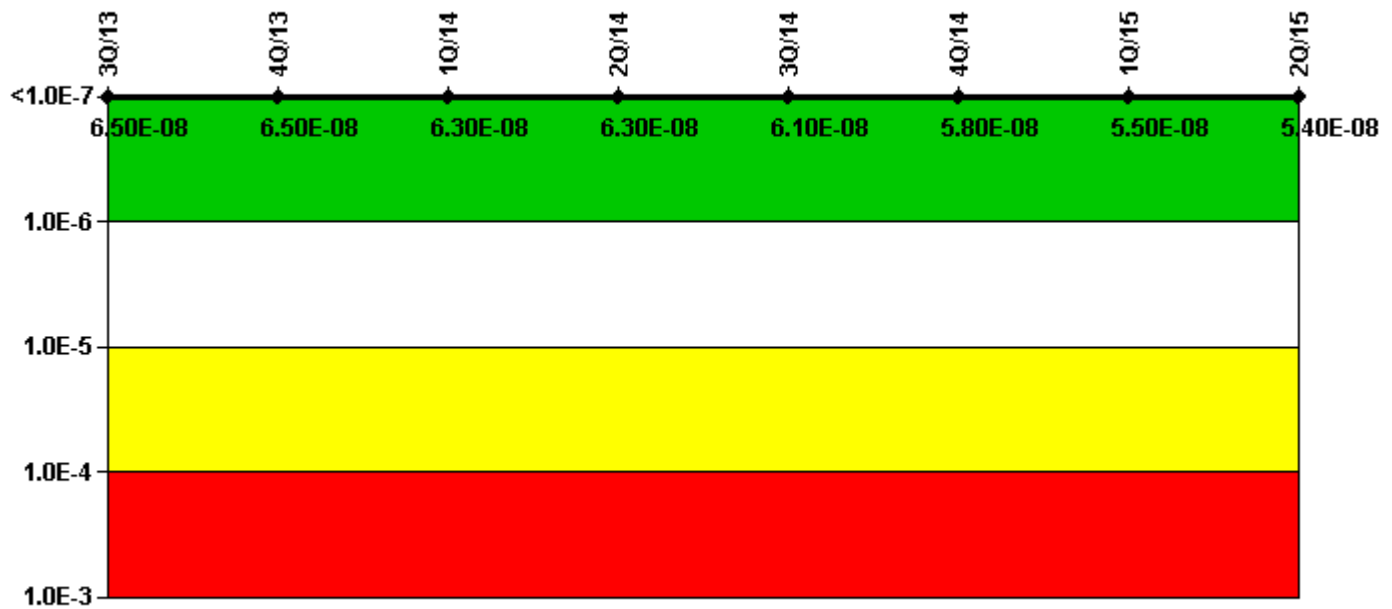
2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Heat Removal System



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

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	-2.97E-09	-2.97E-09	-3.23E-09	-3.33E-09	-3.33E-09	-3.25E-09	-3.25E-09	-3.30E-09
URI (ΔCDF)	6.78E-08	6.78E-08	6.62E-08	6.63E-08	6.47E-08	6.15E-08	5.86E-08	5.72E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.50E-08	6.50E-08	6.30E-08	6.30E-08	6.10E-08	5.80E-08	5.50E-08	5.40E-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).

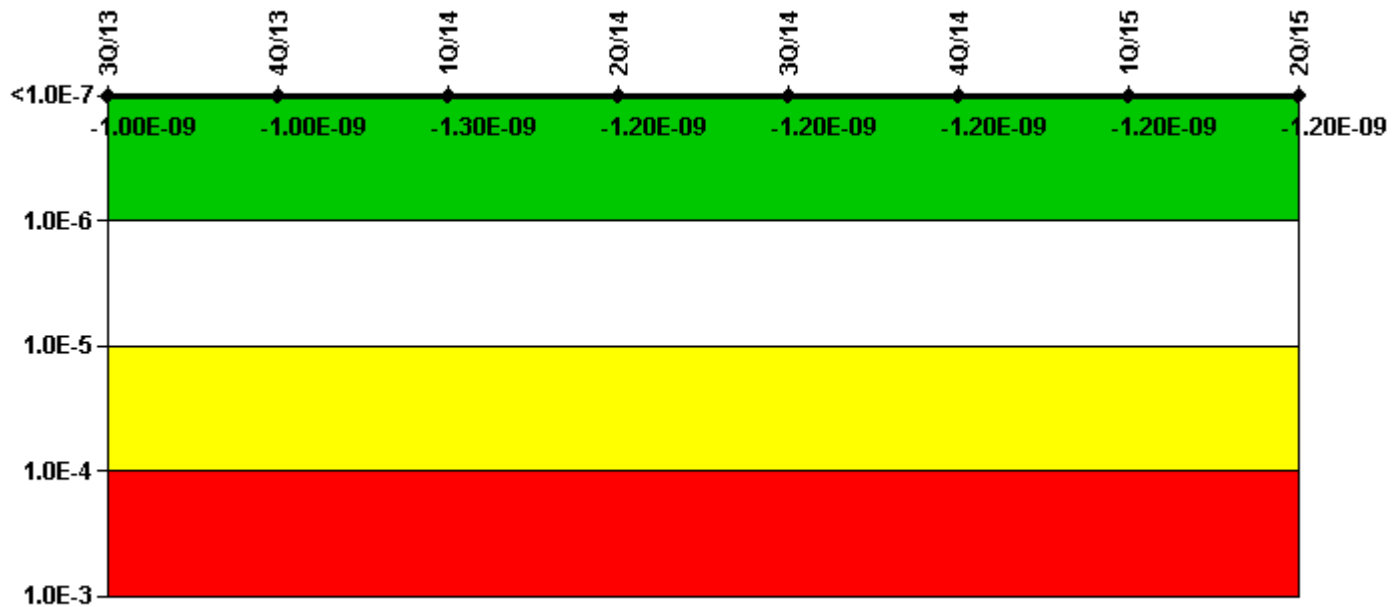
2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	7.80E-11	6.15E-11	-2.25E-10	-2.26E-10	-2.38E-10	-2.42E-10	-2.65E-10	-2.70E-10
URI (ΔCDF)	-1.07E-09	-1.08E-09	-1.06E-09	-9.84E-10	-9.75E-10	-9.65E-10	-9.46E-10	-9.46E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO

Indicator value	-1.00E-09	-1.00E-09	-1.30E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09
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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).

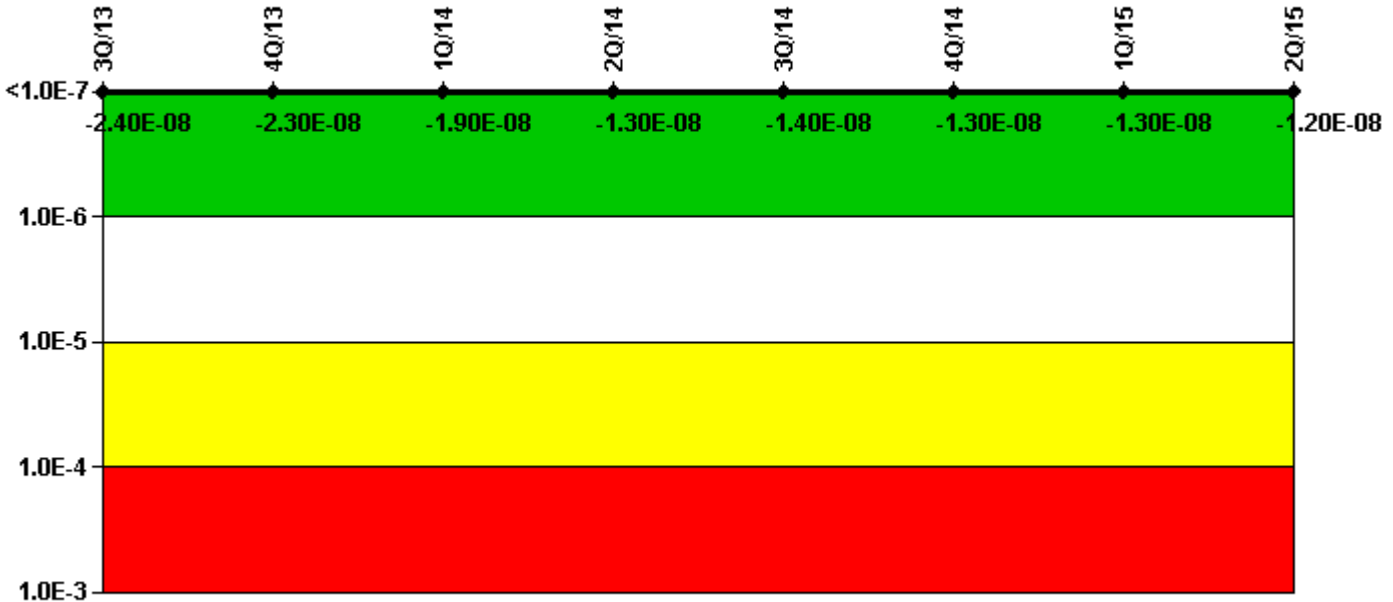
2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
	-1.09E-	-1.52E-	-1.51E-	-1.40E-	-1.40E-	-1.27E-	-1.27E-	-1.27E-

2Q/2015 Performance Indicators - Surry 2

UAI (Δ CDF)	09	09	09	09	09	09	09	09
URI (Δ CDF)	-2.25E-08	-2.18E-08	-1.71E-08	-1.21E-08	-1.22E-08	-1.19E-08	-1.13E-08	-1.09E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-08	-2.30E-08	-1.90E-08	-1.30E-08	-1.40E-08	-1.30E-08	-1.30E-08	-1.20E-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: 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.

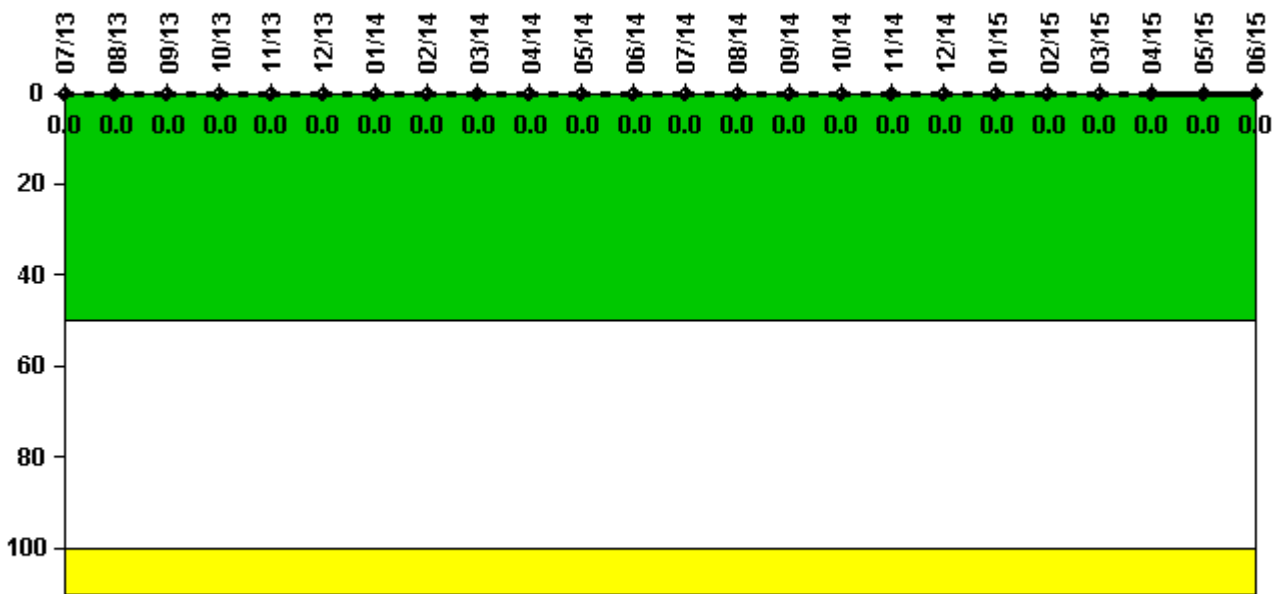
2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

Reactor Coolant System Activity



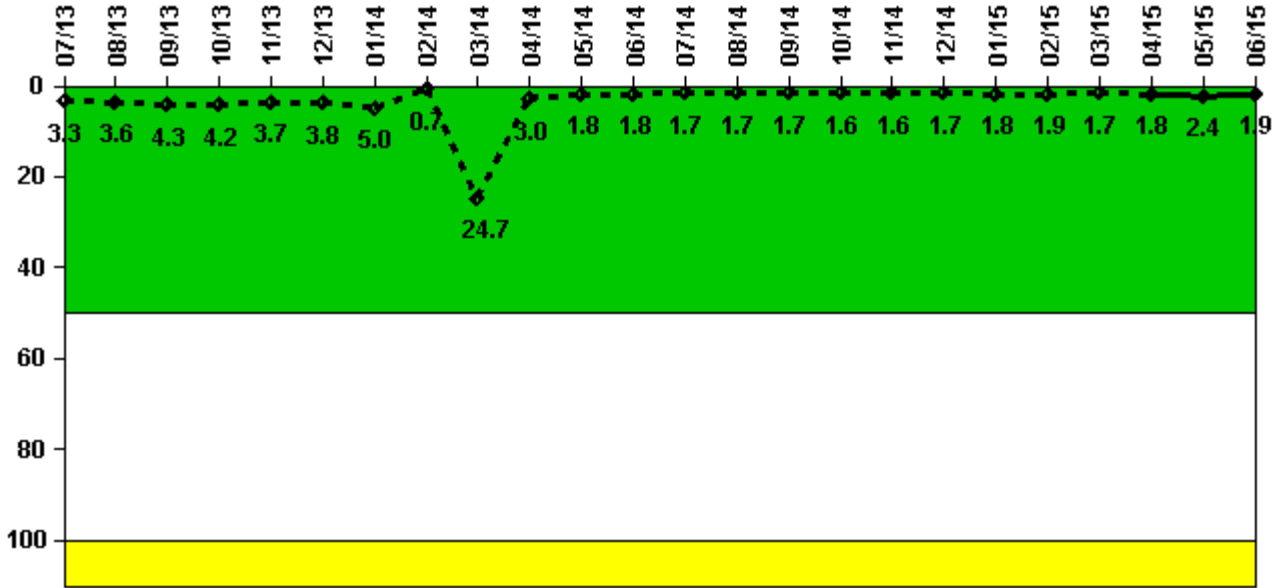
Thresholds: White > 50.0 Yellow > 100.0

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	0.000116	0.000138	0.000130	0.000126	0.000230	0.000132	0.000145	0.000145	0.000236	0.000151	0.000439	0.000066
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum activity	0.000079	0.000077	0.000100	0.000079	0.000085	0.000109	0.000095	0.000138	0.000113	0.000103	0.000115	0.000126
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



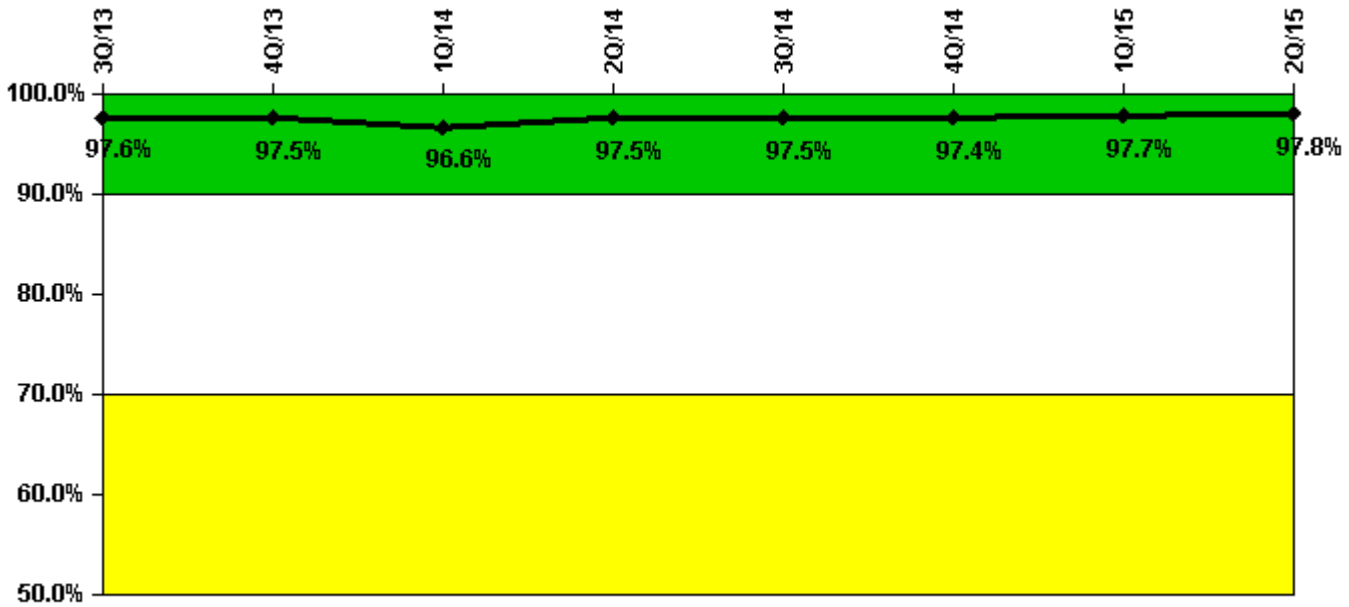
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum leakage	0.330	0.360	0.430	0.420	0.370	0.380	0.500	0.070	2.470	0.300	0.180	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	3.3	3.6	4.3	4.2	3.7	3.8	5.0	0.7	24.7	3.0	1.8	1.8
Reactor Coolant System Leakage	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum leakage	0.170	0.170	0.170	0.160	0.160	0.170	0.180	0.190	0.170	0.180	0.240	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	1.7	1.7	1.7	1.6	1.6	1.7	1.8	1.9	1.7	1.8	2.4	1.9

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

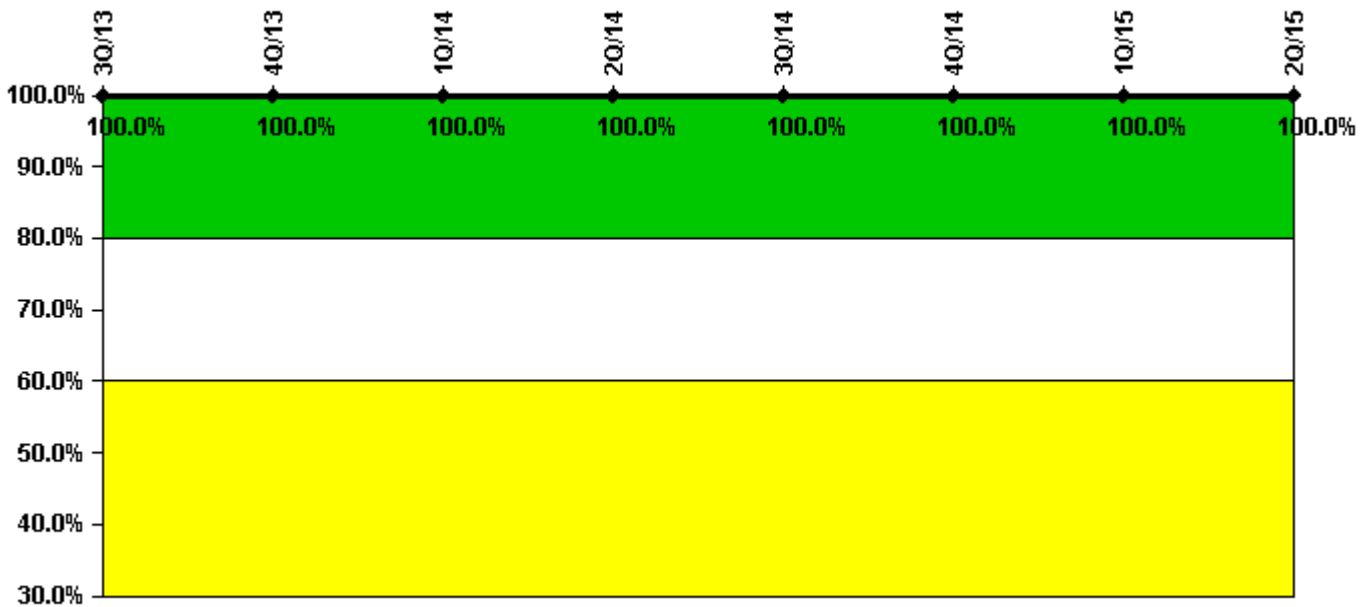
Notes

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

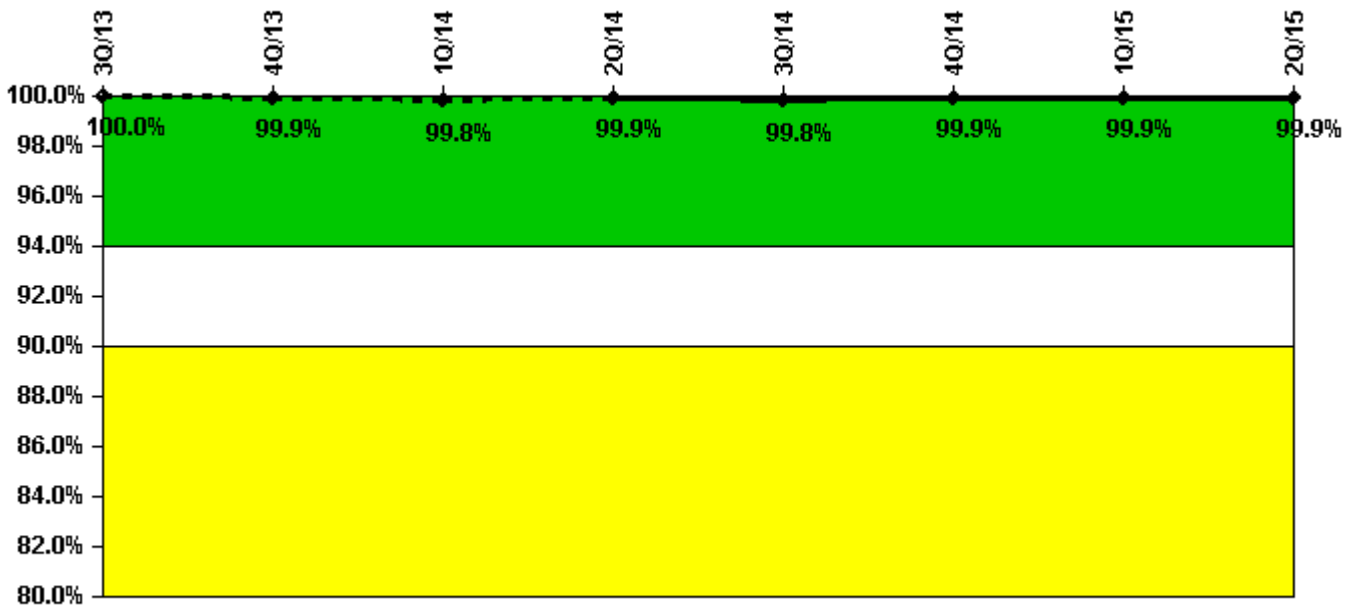
ERO Drill Participation	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Participating Key personnel	160.0	159.0	156.0	152.0	154.0	151.0	141.0	157.0
Total Key personnel	160.0	159.0	156.0	152.0	154.0	151.0	141.0	157.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

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



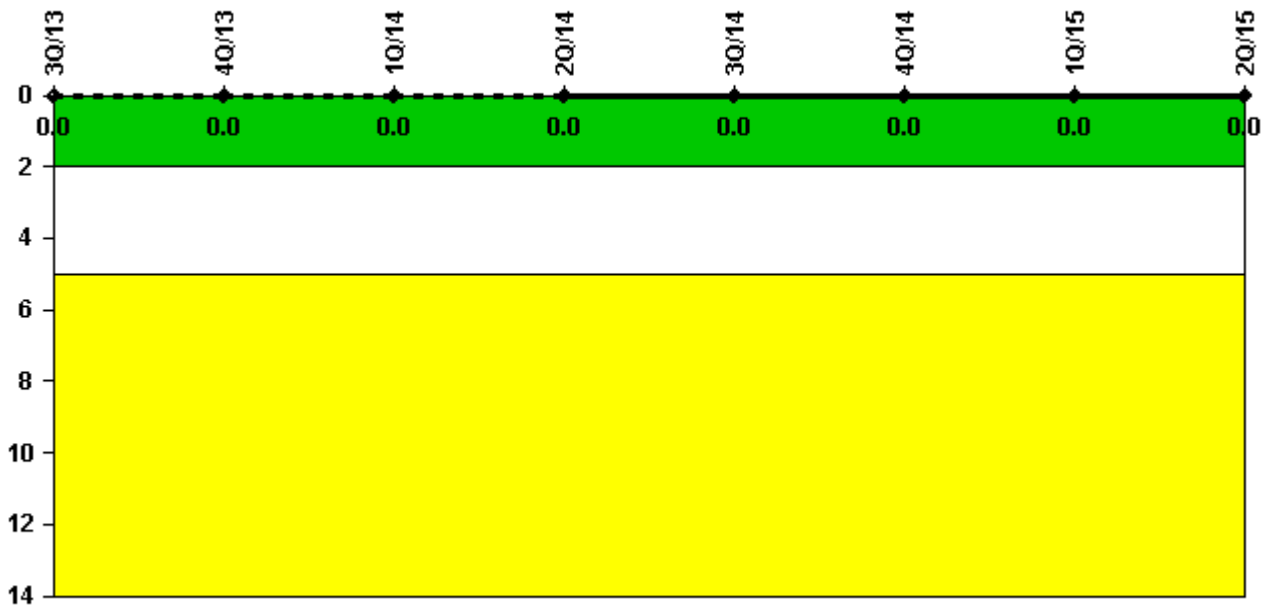
Thresholds: White < 94.0% Yellow < 90.0%

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



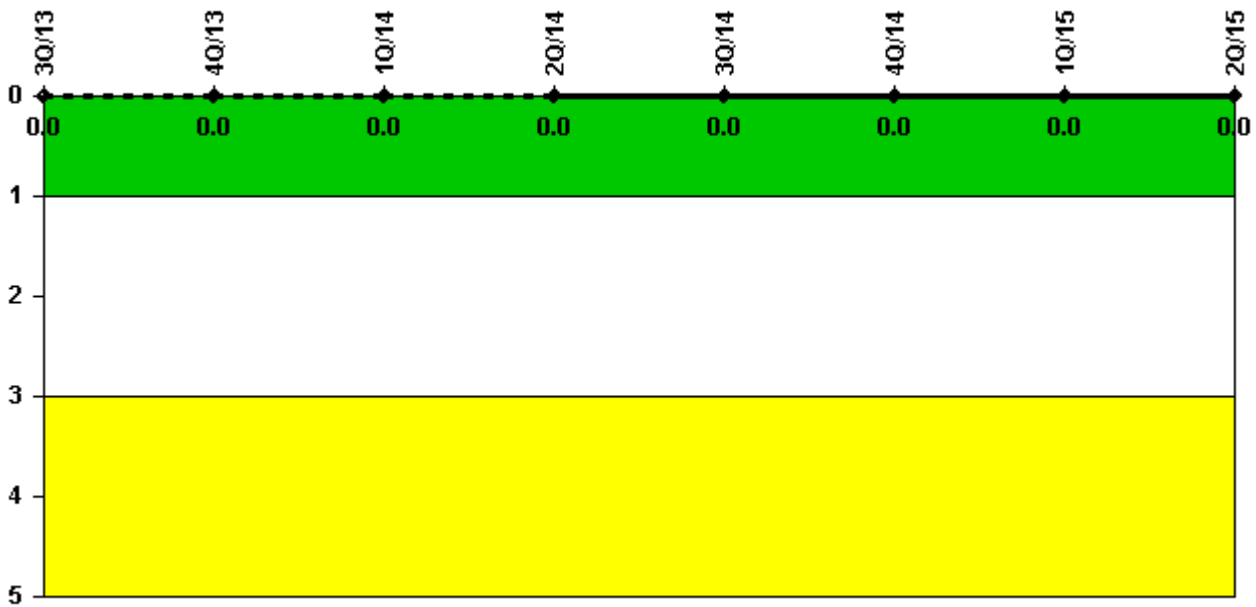
Thresholds: White > 2.0 Yellow > 5.0

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

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

Last Modified: July 24, 2015

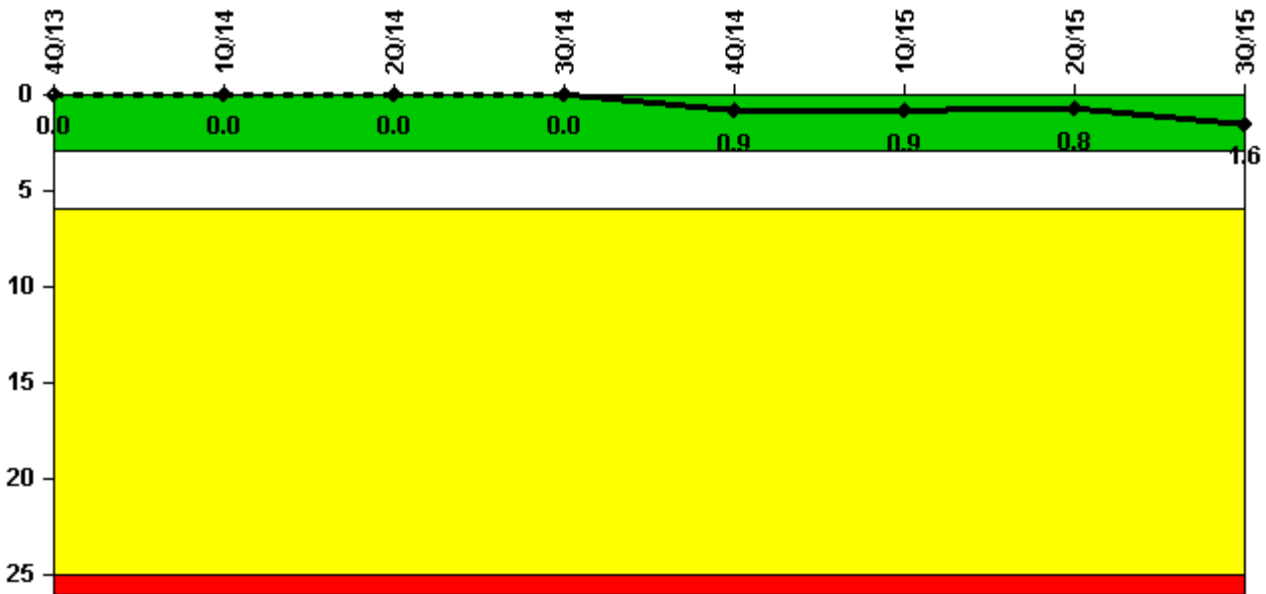
Surry 2

3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



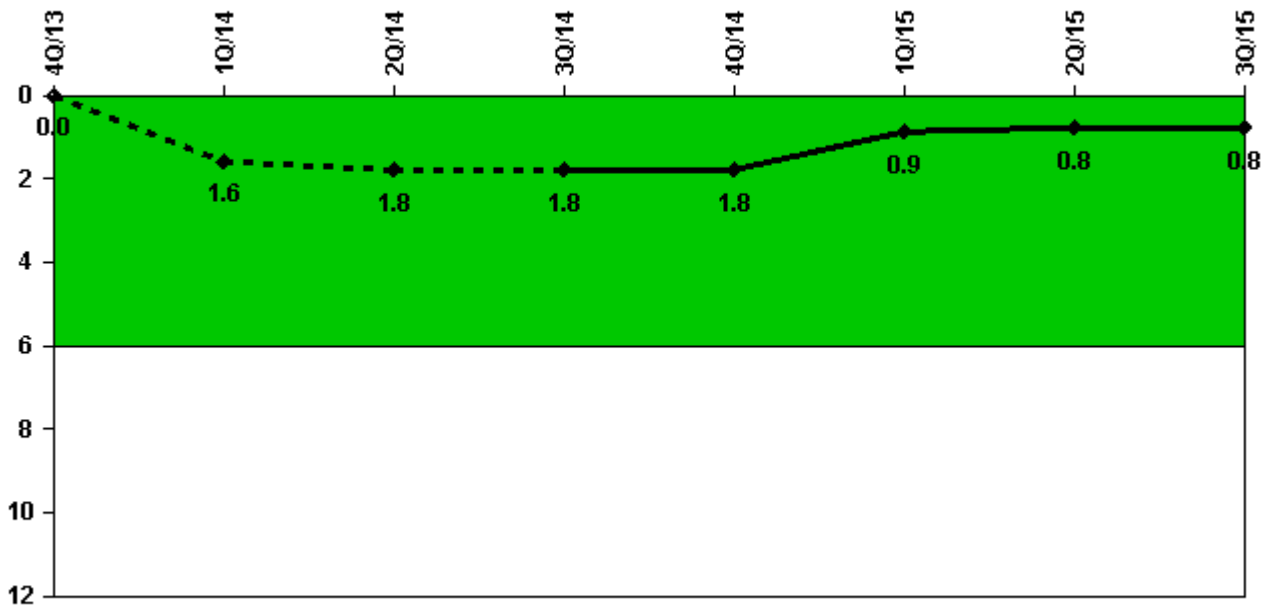
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned scrams	0	0	0	0	1.0	0	0	1.0
Critical hours	2209.0	2107.4	1445.8	2208.0	2155.2	2159.0	2184.0	1991.7
Indicator value	0	0	0	0	0.9	0.9	0.8	1.6

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	2.0	0	0	0	1.0	0	0
Critical hours	2209.0	2107.4	1445.8	2208.0	2155.2	2159.0	2184.0	1991.7
Indicator value	0	1.6	1.8	1.8	1.8	0.9	0.8	0.8

Licensee Comments:

3Q/14: A review, prompted by the NRC, determined the March 2014 Unit 2 shutdown to repair a pressurizer spray valve was also an unplanned power change. Historical data was corrected with no change in color.

Unplanned Scrams with Complications



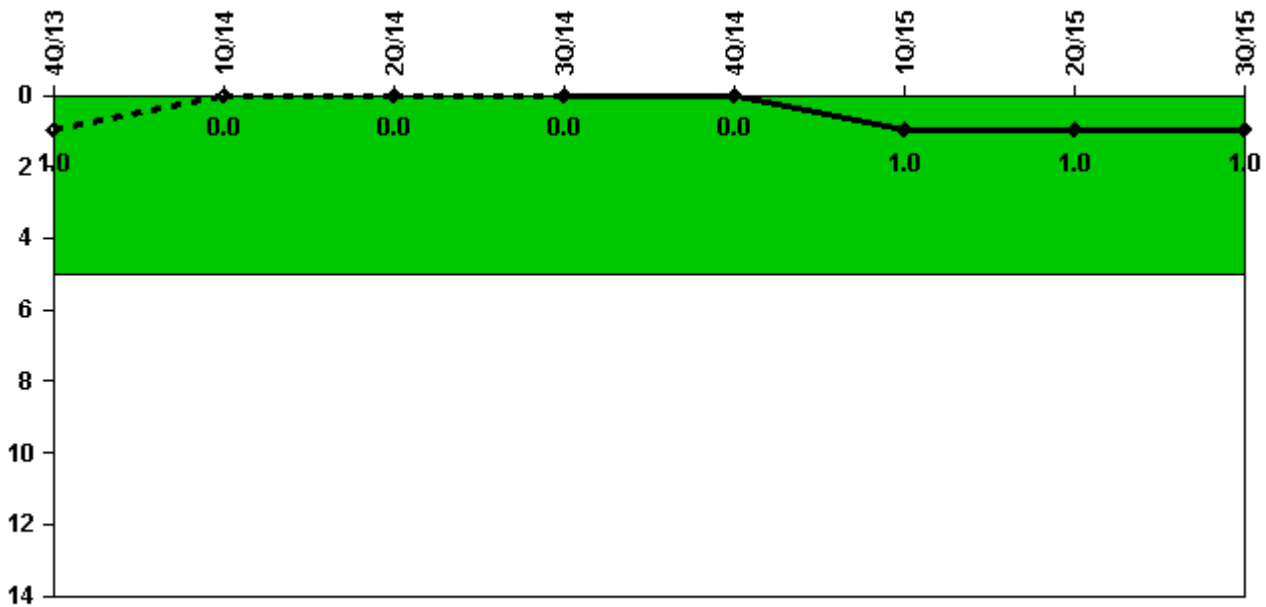
Thresholds: White > 1.0

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

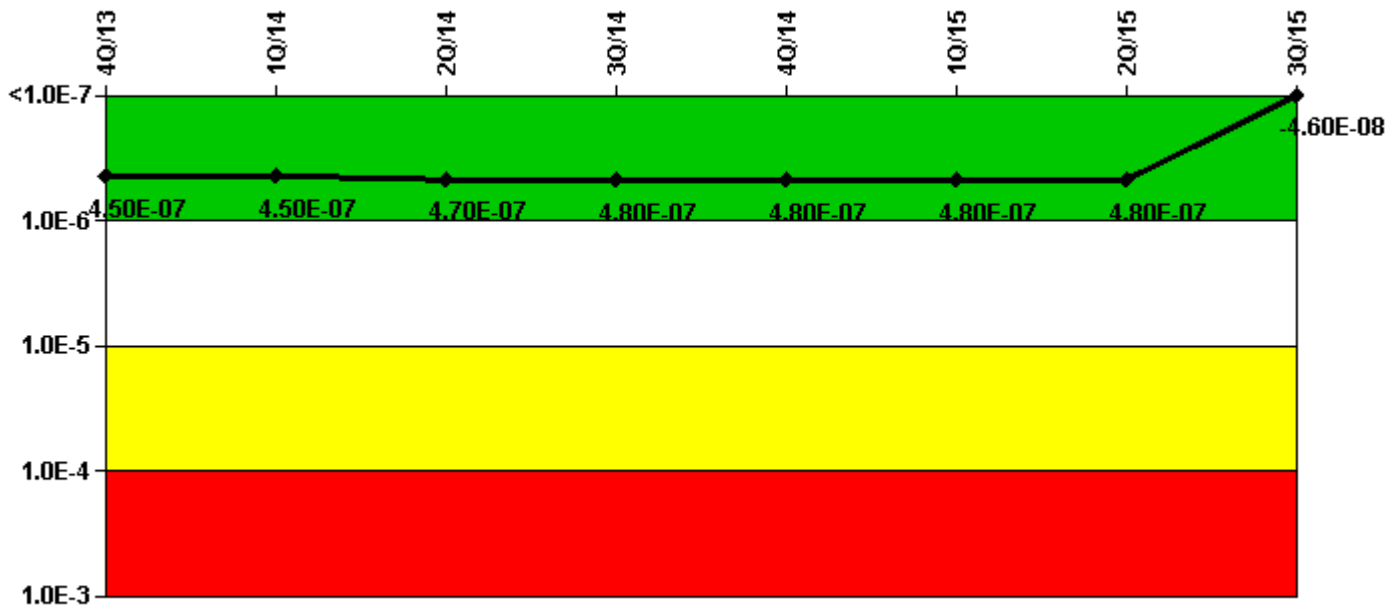
Notes

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)	6.96E-09	5.58E-09	8.52E-10	1.06E-09	1.44E-09	2.02E-10	-1.06E-09	-1.33E-08
URI (ΔCDF)	4.47E-07	4.49E-07	4.72E-07	4.77E-07	4.80E-07	4.80E-07	4.83E-07	-3.22E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.50E-07	4.50E-07	4.70E-07	4.80E-07	4.80E-07	4.80E-07	4.80E-07	-4.60E-08

Licensee Comments:

2Q/15: Risk Cap Invoked.

1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

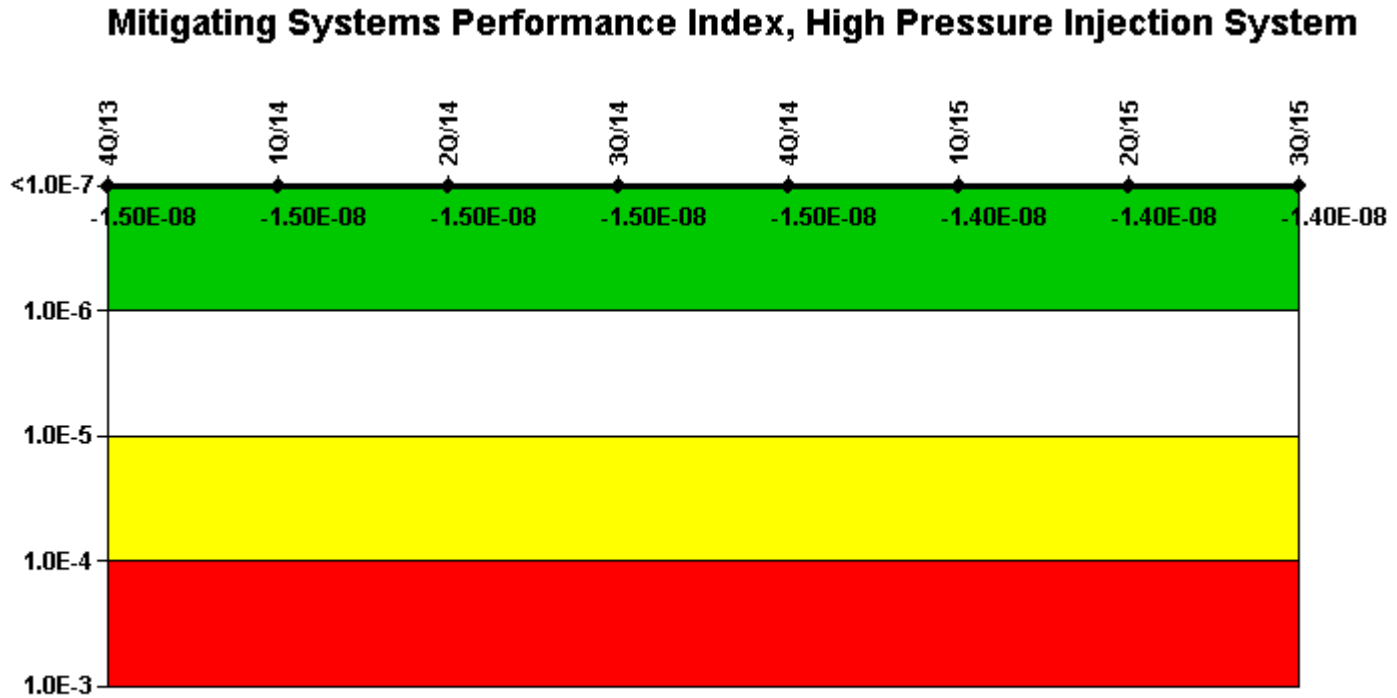
3Q/14: Risk Cap Invoked. A review determined a minor discrepancy of 4 minutes of unavailability for #3 diesel for August 2013. Historical data was changed with no change in color.

2Q/14: Risk Cap Invoked.

1Q/14: Risk Cap Invoked. An assessment determined unavailable hours for December 2012 were not correct. Historical data was corrected with no change in color.

4Q/13: Risk Cap Invoked.

4Q/13: Risk Cap Invoked.



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)	-4.78E-10	-4.15E-10	-4.41E-10	-4.89E-10	-6.00E-10	-6.34E-10	-6.29E-10	-7.17E-10
URI (Δ CDF)	-1.44E-08	-1.42E-08	-1.45E-08	-1.42E-08	-1.40E-08	-1.36E-08	-1.36E-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	-1.40E-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.

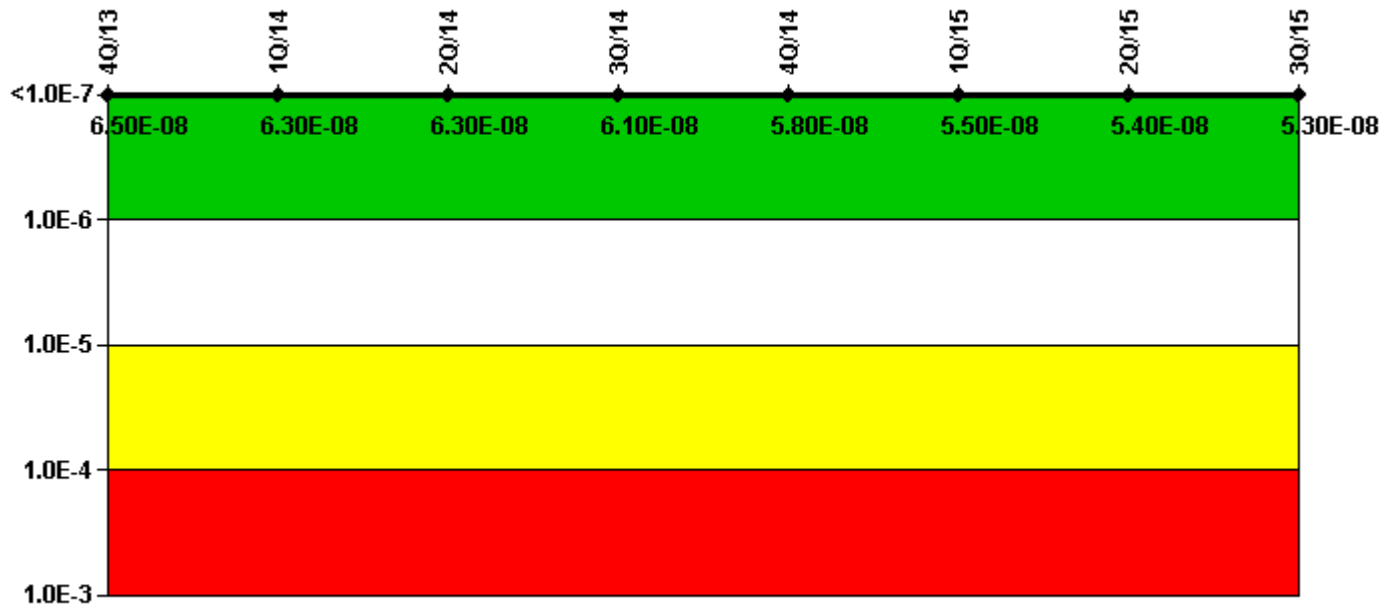
3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Heat Removal System



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

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (ΔCDF)	-2.97E-09	-3.23E-09	-3.33E-09	-3.33E-09	-3.25E-09	-3.25E-09	-3.30E-09	-3.30E-09
URI (ΔCDF)	6.78E-08	6.62E-08	6.63E-08	6.47E-08	6.15E-08	5.86E-08	5.72E-08	5.58E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.50E-08	6.30E-08	6.30E-08	6.10E-08	5.80E-08	5.50E-08	5.40E-08	5.30E-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.

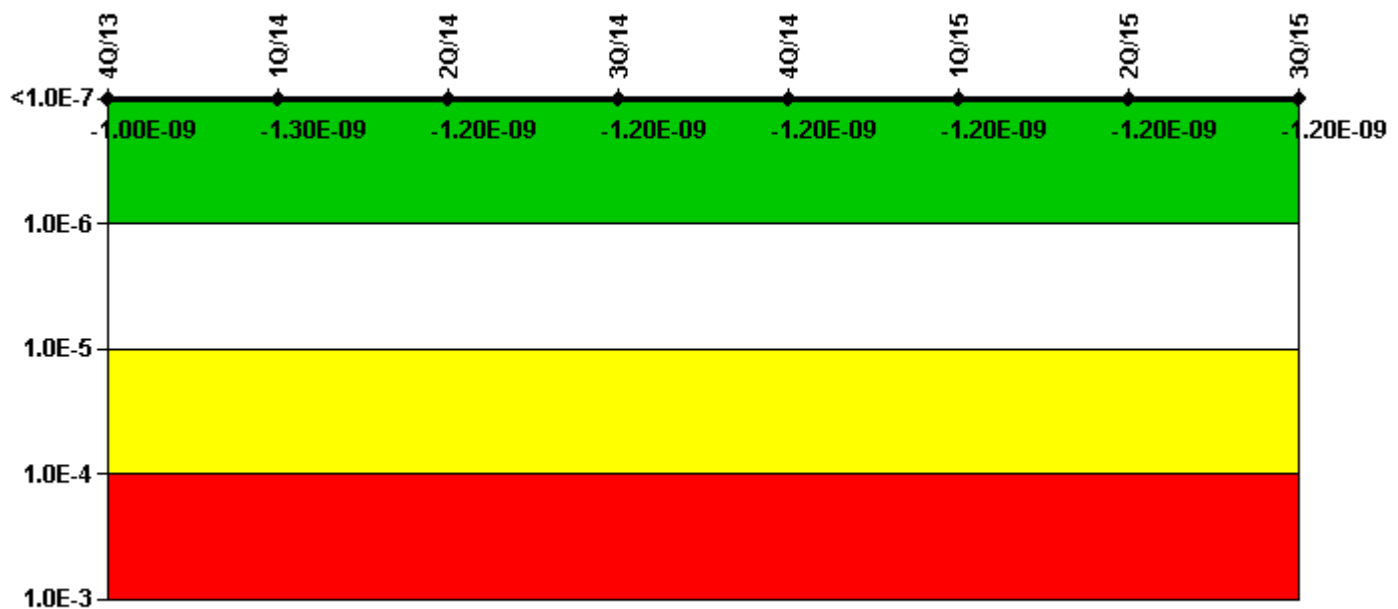
3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

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 (ΔCDF)	6.15E-11	-2.25E-10	-2.26E-10	-2.38E-10	-2.42E-10	-2.65E-10	-2.70E-10	-2.70E-10
URI (ΔCDF)	-1.08E-09	-1.06E-09	-9.84E-10	-9.75E-10	-9.65E-10	-9.46E-10	-9.46E-10	-9.46E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.00E-09	-1.30E-09	-1.20E-09	-1.20E-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.

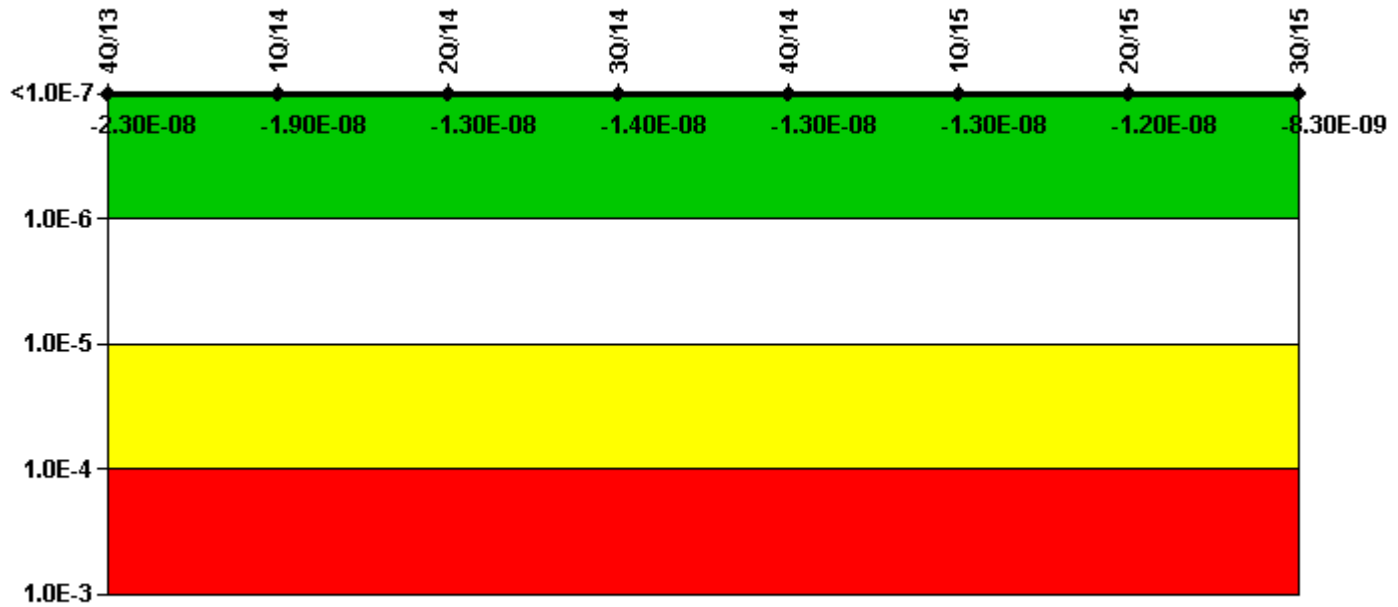
3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

4Q/13: Changed PRA Parameter(s).

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)	-1.52E-09	-1.51E-09	-1.40E-09	-1.40E-09	-1.27E-09	-1.27E-09	-1.27E-09	-1.25E-09
URI (ΔCDF)	-2.18E-08	-1.71E-08	-1.21E-08	-1.22E-08	-1.19E-08	-1.13E-08	-1.09E-08	-7.07E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-08	-1.90E-08	-1.30E-08	-1.40E-08	-1.30E-08	-1.30E-08	-1.20E-08	-8.30E-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).

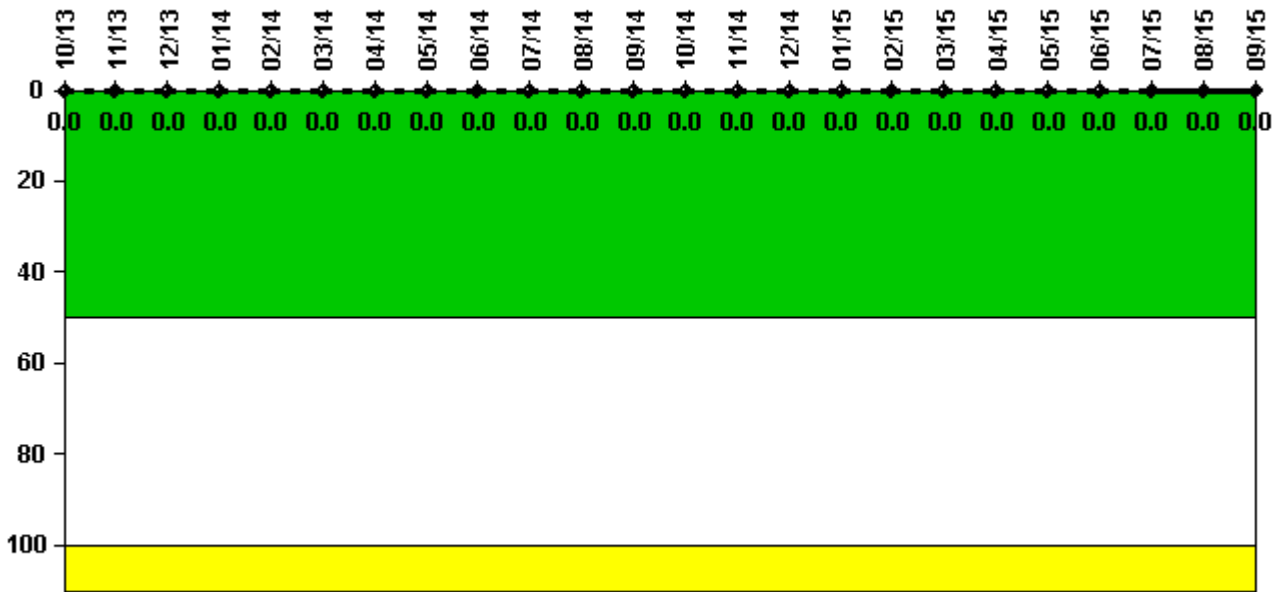
2Q/14: Failure No. 311011 on March 29 was added which changed the first quarter indicator with no change in color. See LER report No. 50-280/2014-001-00.

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

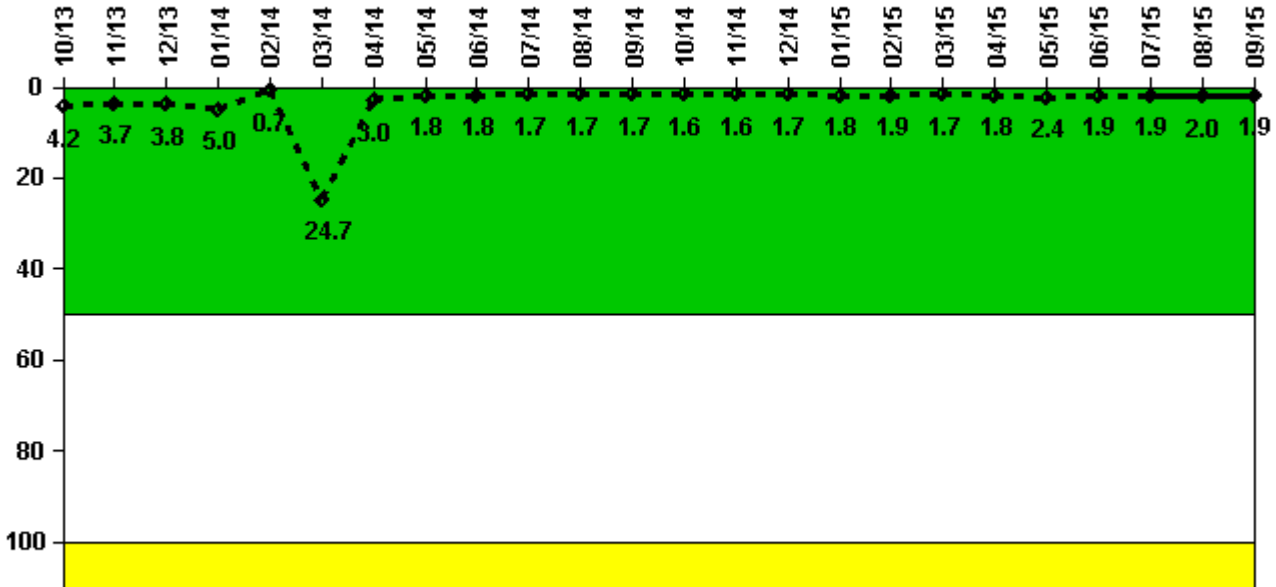
Notes

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	0.000126	0.000230	0.000132	0.000145	0.000145	0.000236	0.000151	0.000439	0.000066	0.000079	0.000077	0.000100
Technical specification												

limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum activity	0.000079	0.000085	0.000109	0.000095	0.000138	0.000113	0.000103	0.000115	0.000126	0.000116	0.000064	0.000130
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

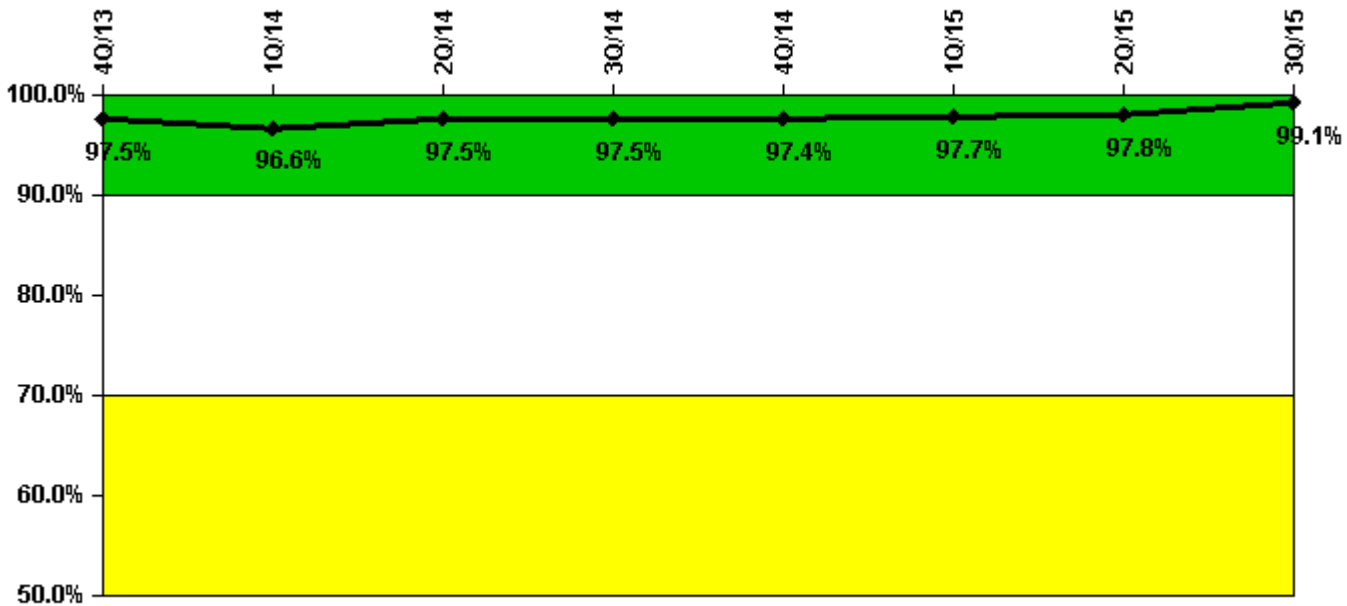
Notes

Reactor Coolant System Leakage	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum leakage	0.420	0.370	0.380	0.500	0.070	2.470	0.300	0.180	0.180	0.170	0.170	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	4.2	3.7	3.8	5.0	0.7	24.7	3.0	1.8	1.8	1.7	1.7	1.7
Reactor Coolant System Leakage	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum leakage	0.160	0.160	0.170	0.180	0.190	0.170	0.180	0.240	0.190	0.190	0.200	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	1.6	1.6	1.7	1.8	1.9	1.7	1.8	2.4	1.9	1.9	2.0	1.9

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

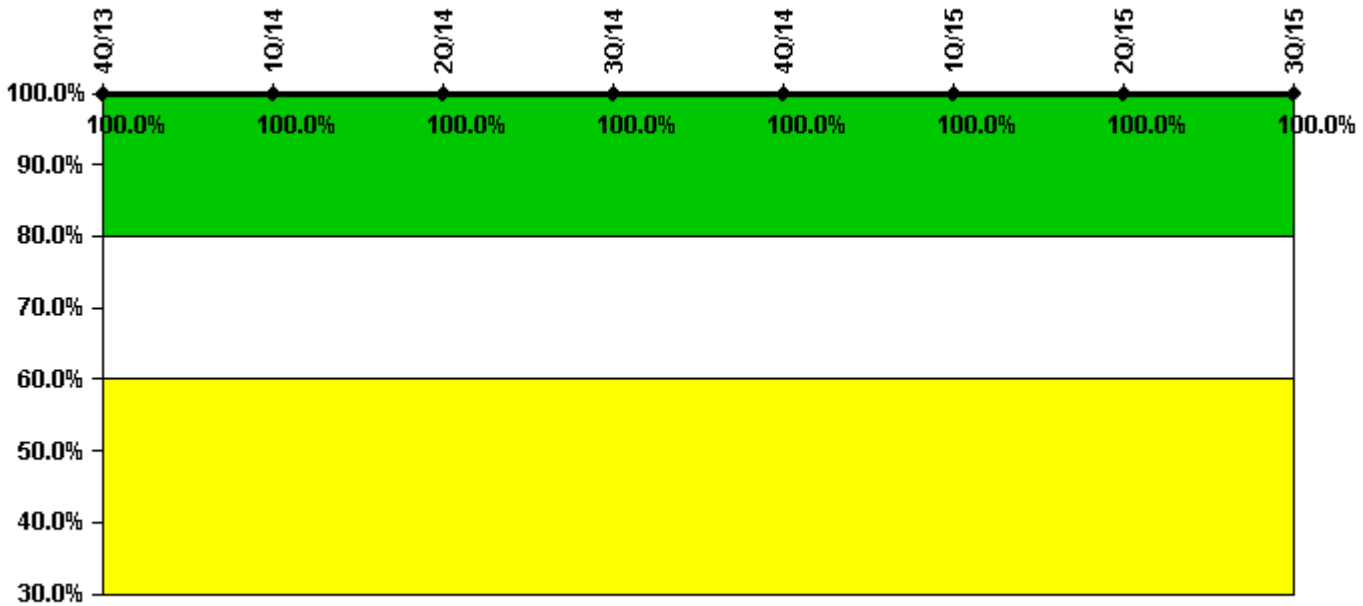
Notes

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

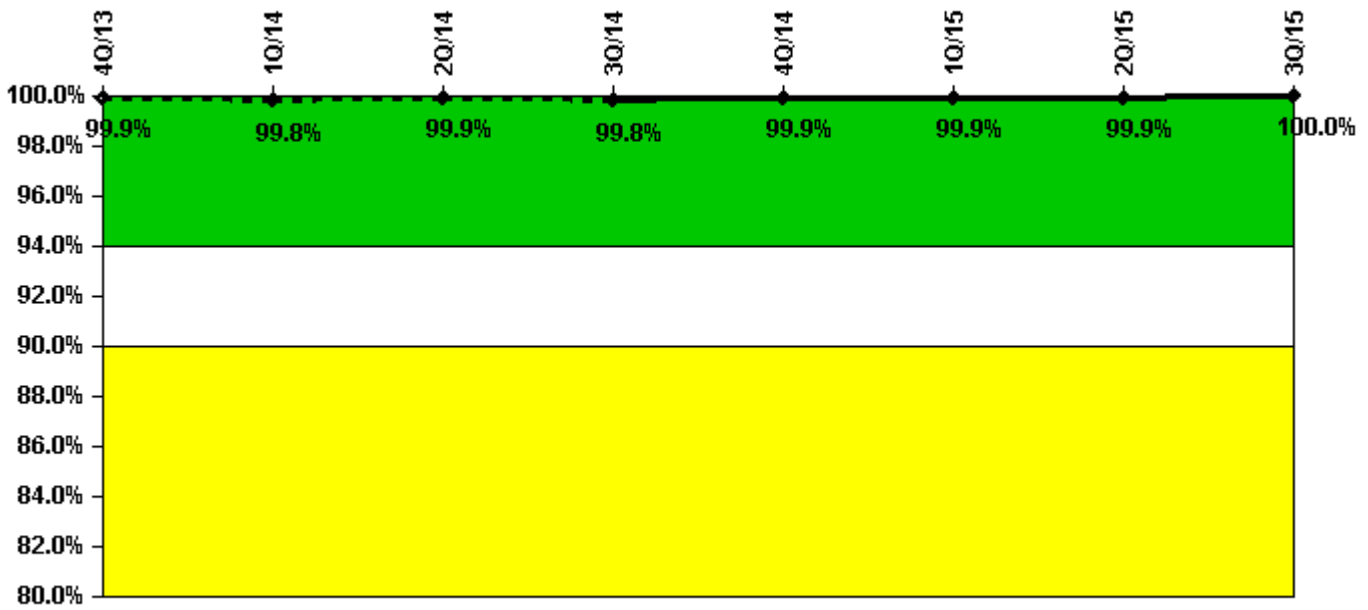
ERO Drill Participation	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Participating Key personnel	159.0	156.0	152.0	154.0	151.0	141.0	157.0	157.0
Total Key personnel	159.0	156.0	152.0	154.0	151.0	141.0	157.0	157.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

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



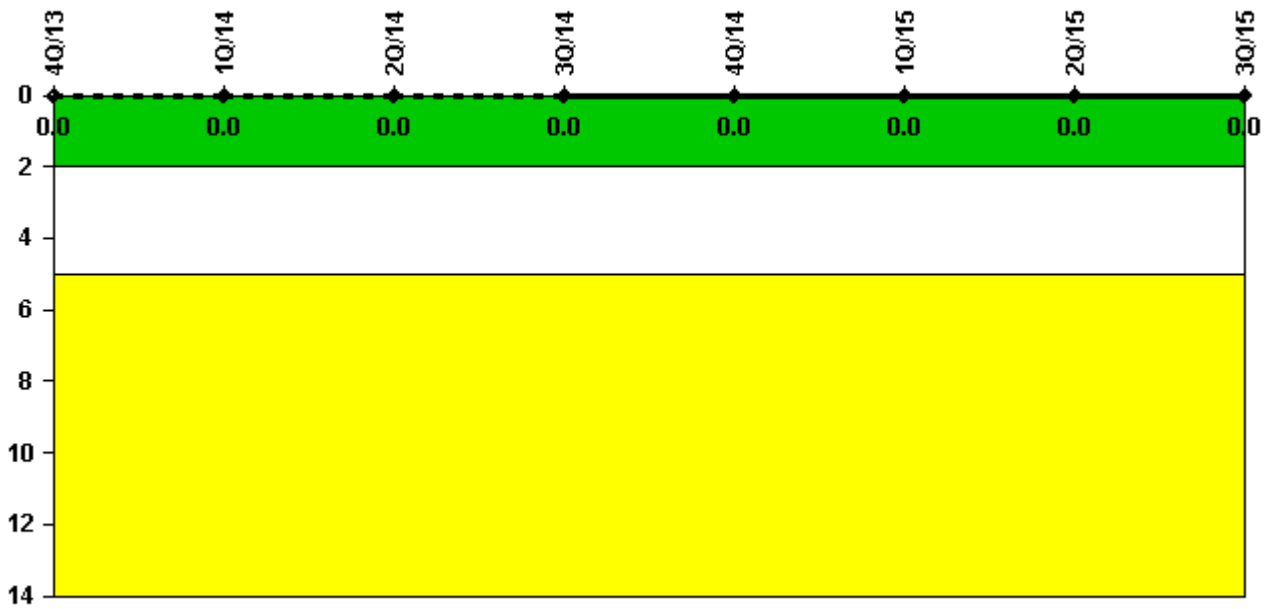
Thresholds: White < 94.0% Yellow < 90.0%

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

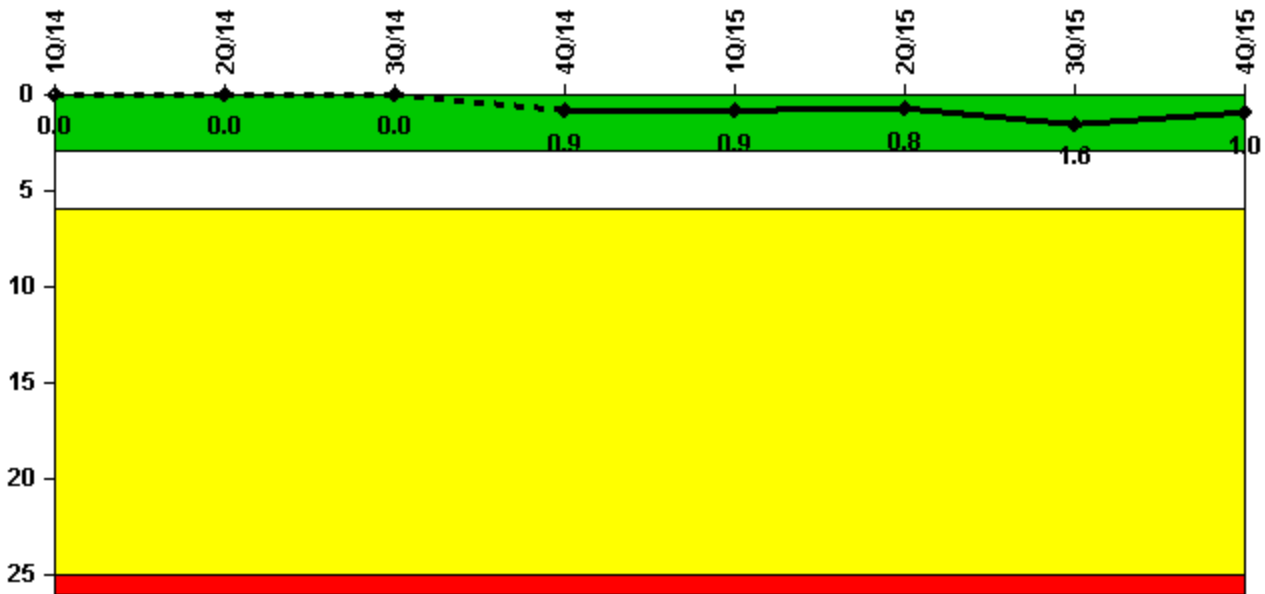
Surry 2

4Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



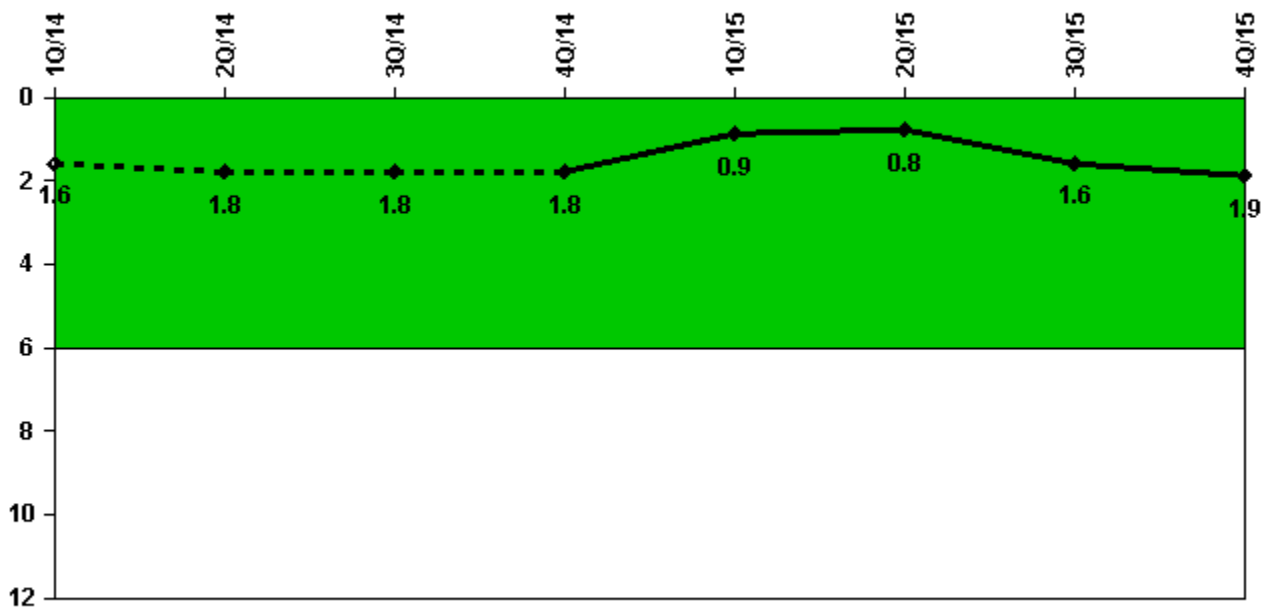
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned scrams	0	0	0	1.0	0	0	1.0	0
Critical hours	2107.4	1445.8	2208.0	2155.2	2159.0	2184.0	1991.7	943.8
Indicator value	0	0	0	0.9	0.9	0.8	1.6	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

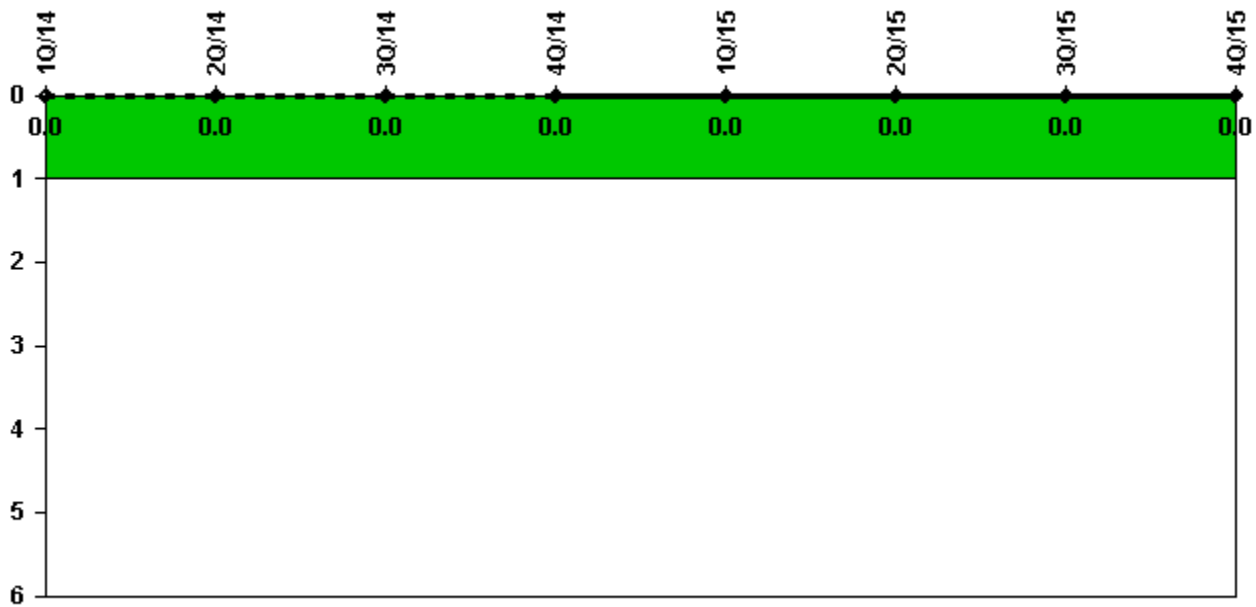
Notes

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	2.0	0	0	0	1.0	0	1.0	0
Critical hours	2107.4	1445.8	2208.0	2155.2	2159.0	2184.0	1991.7	943.8
Indicator value	1.6	1.8	1.8	1.8	0.9	0.8	1.6	1.9

Licensee Comments:

3Q/14: A review, prompted by the NRC, determined the March 2014 Unit 2 shutdown to repair a pressurizer spray valve was also an unplanned power change. Historical data was corrected with no change in color.

Unplanned Scrams with Complications



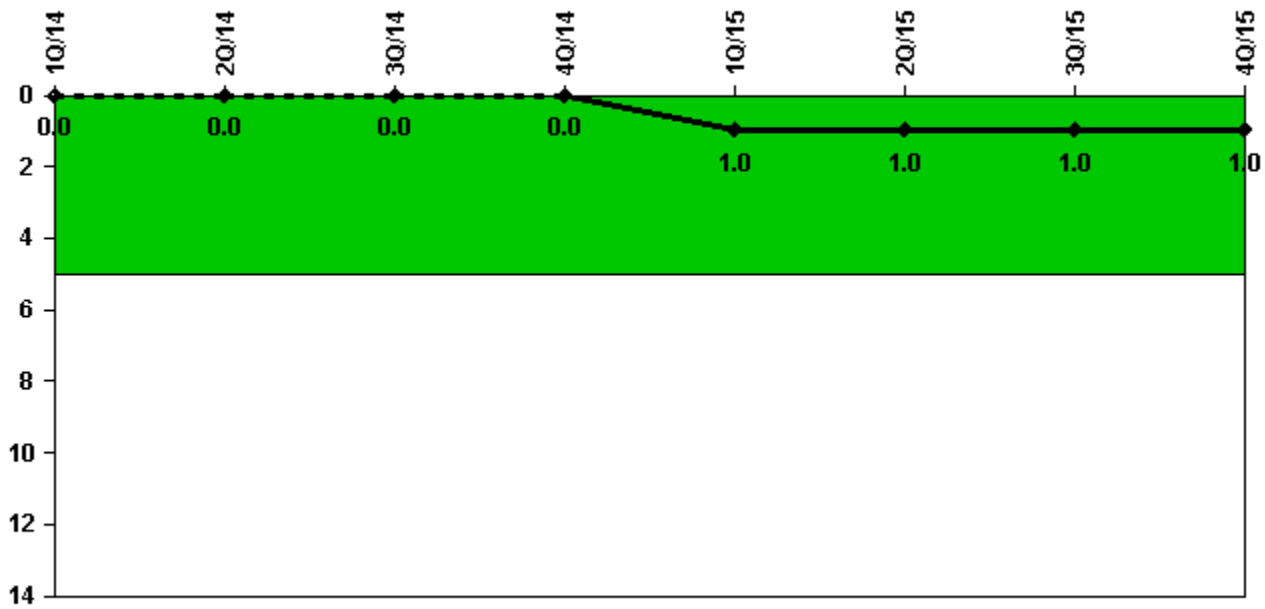
Thresholds: White > 1.0

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

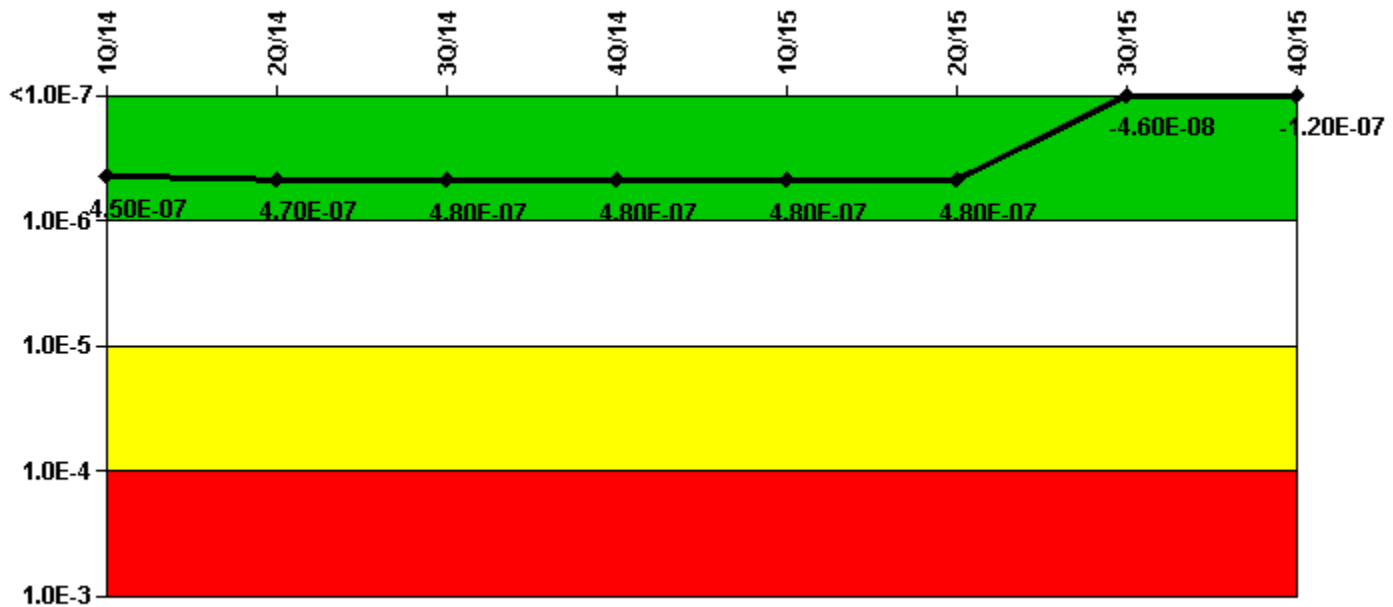
Notes

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)	5.58E-09	8.52E-10	1.06E-09	1.44E-09	2.02E-10	-1.06E-09	-1.33E-08	-1.61E-08
URI (ΔCDF)	4.49E-07	4.72E-07	4.77E-07	4.80E-07	4.80E-07	4.83E-07	-3.22E-08	-1.02E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.50E-07	4.70E-07	4.80E-07	4.80E-07	4.80E-07	4.80E-07	-4.60E-08	-1.20E-07

Licensee Comments:

2Q/15: Risk Cap Invoked.

1Q/15: Risk Cap Invoked.

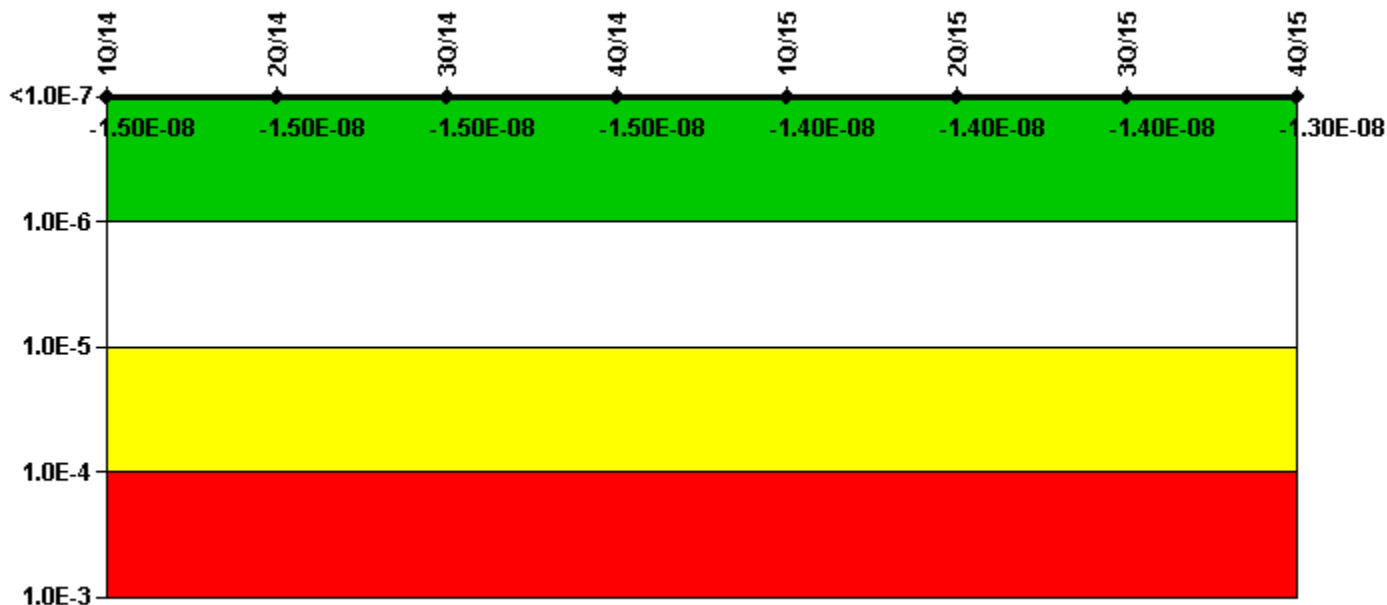
4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked. A review determined a minor discrepancy of 4 minutes of unavailability for #3 diesel for August 2013. Historical data was changed with no change in color.

2Q/14: Risk Cap Invoked.

1Q/14: Risk Cap Invoked. An assessment determined unavailable hours for December 2012 were not correct. 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/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	-4.15E-10	-4.41E-10	-4.89E-10	-6.00E-10	-6.34E-10	-6.29E-10	-7.17E-10	1.59E-10
URI (Δ CDF)	-1.42E-08	-1.45E-08	-1.42E-08	-1.40E-08	-1.36E-08	-1.36E-08	-1.36E-08	-1.34E-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	-1.40E-08	-1.40E-08	-1.30E-08

Licensee Comments:

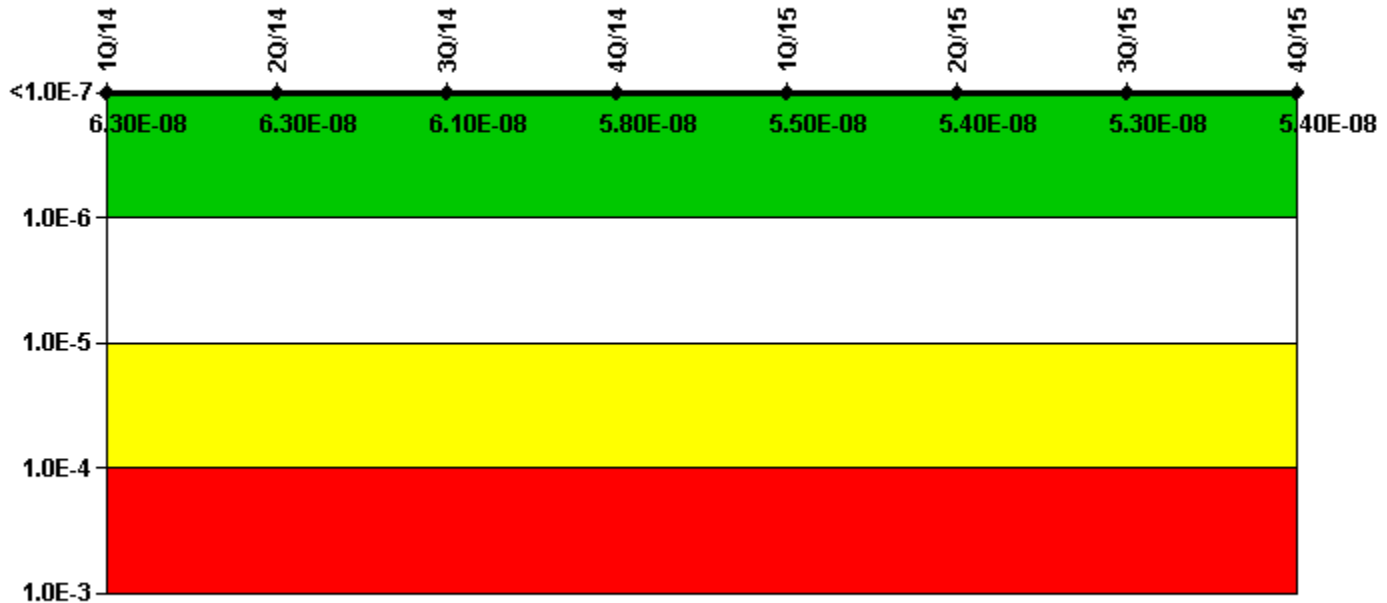
4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

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)	-3.23E-09	-3.33E-09	-3.33E-09	-3.25E-09	-3.25E-09	-3.30E-09	-3.30E-09	-3.23E-09
URI (Δ CDF)	6.62E-08	6.63E-08	6.47E-08	6.15E-08	5.86E-08	5.72E-08	5.58E-08	5.72E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.30E-08	6.30E-08	6.10E-08	5.80E-08	5.50E-08	5.40E-08	5.30E-08	5.40E-08

Licensee Comments:

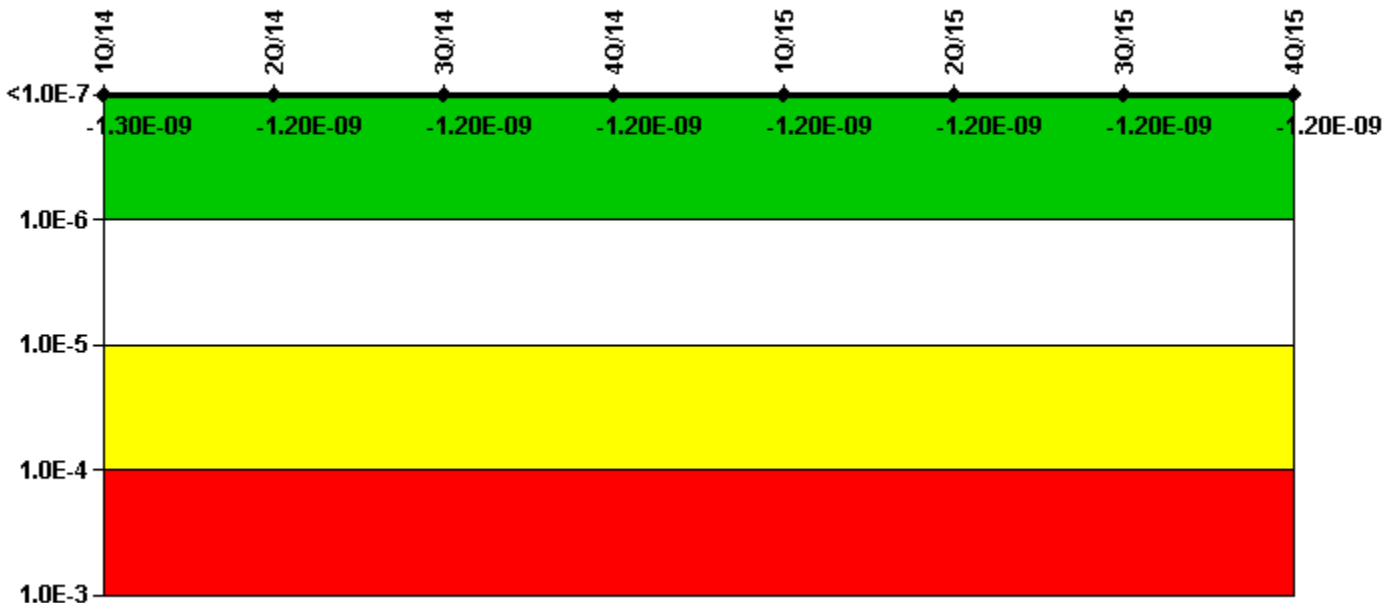
4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

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)	-2.25E-10	-2.26E-10	-2.38E-10	-2.42E-10	-2.65E-10	-2.70E-10	-2.70E-10	-2.70E-10
URI (Δ CDF)	-1.06E-09	-9.84E-10	-9.75E-10	-9.65E-10	-9.46E-10	-9.46E-10	-9.46E-10	-9.47E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09

Licensee Comments:

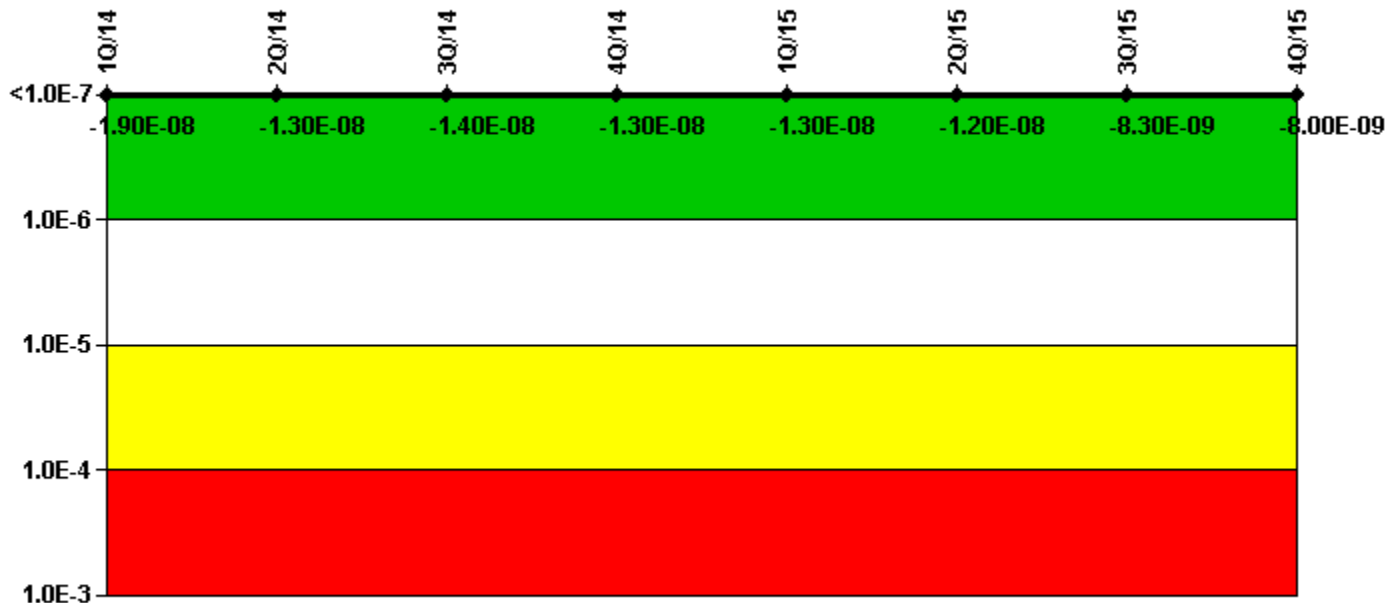
4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

3Q/14: Changed PRA Parameter(s).

2Q/14: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	-1.51E-09	-1.40E-09	-1.40E-09	-1.27E-09	-1.27E-09	-1.27E-09	-1.25E-09	-1.37E-09
URI (Δ CDF)	-1.71E-08	-1.21E-08	-1.22E-08	-1.19E-08	-1.13E-08	-1.09E-08	-7.07E-09	-6.67E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-08	-1.30E-08	-1.40E-08	-1.30E-08	-1.30E-08	-1.20E-08	-8.30E-09	-8.00E-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.

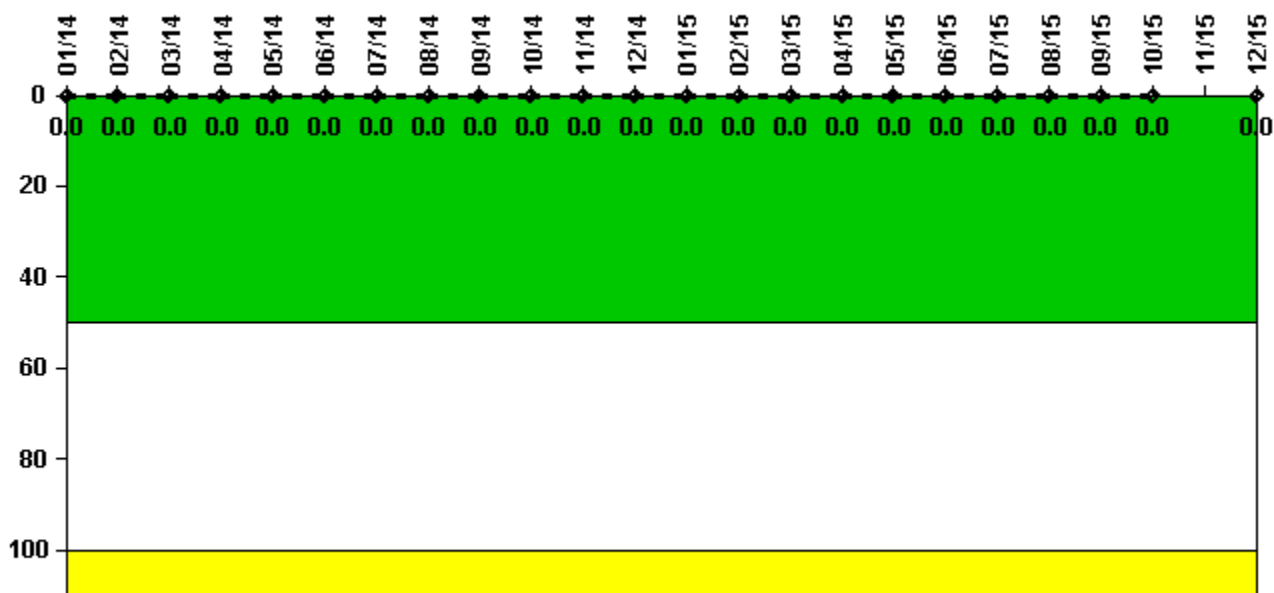
3Q/14: Changed PRA Parameter(s).

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



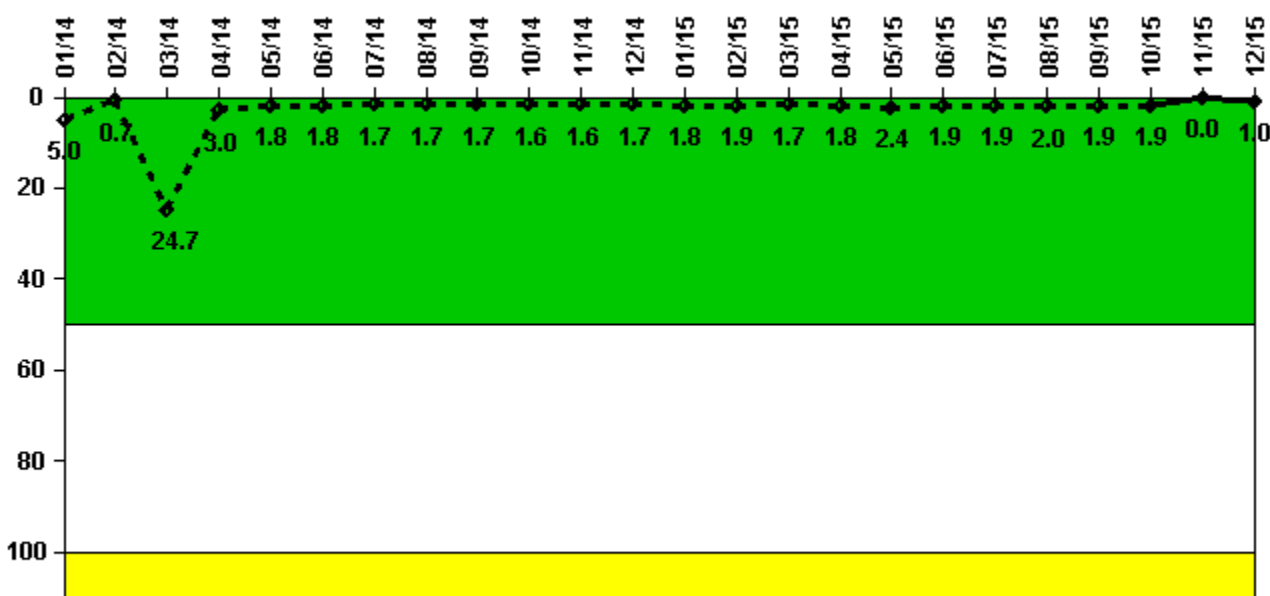
Thresholds: White > 50.0 Yellow > 100.0

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	0.000145	0.000145	0.000236	0.000151	0.000439	0.000066	0.000079	0.000077	0.000100	0.000079	0.000085	0.000109
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum activity	0.000095	0.000138	0.000113	0.000103	0.000115	0.000126	0.000116	0.000064	0.000130	0.000182	N/A	0.000187
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	N/A	0

Licensee Comments: none

Reactor Coolant System Leakage



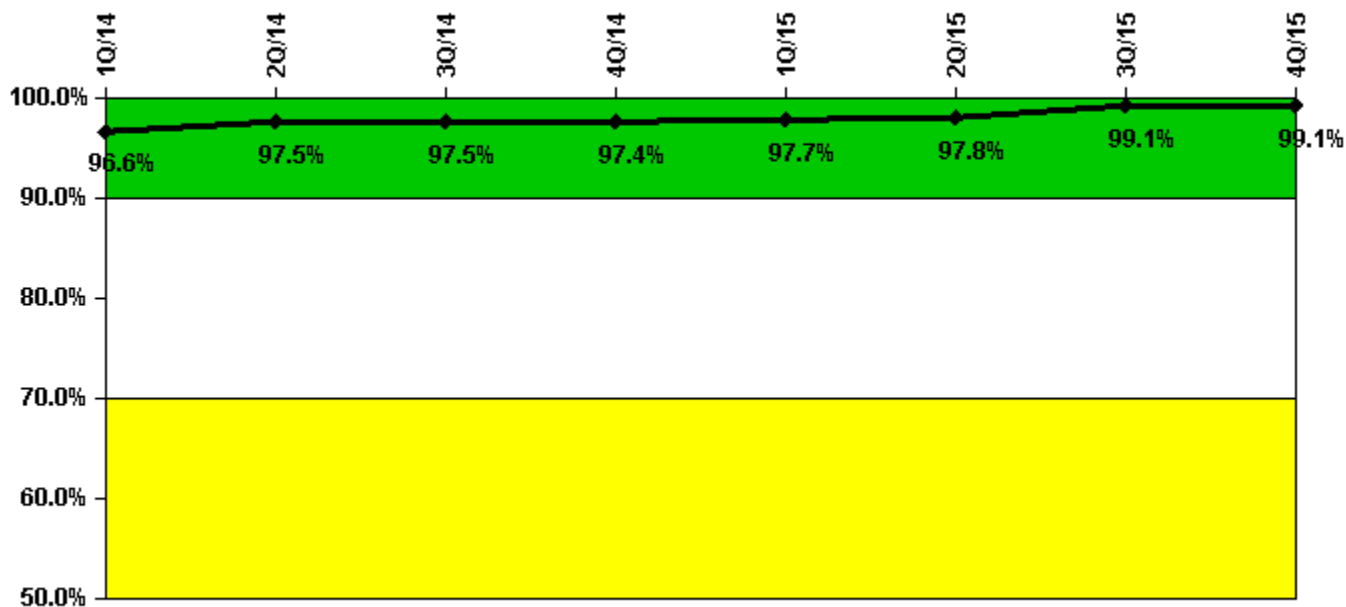
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.500	0.070	2.470	0.300	0.180	0.180	0.170	0.170	0.170	0.160	0.160	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	5.0	0.7	24.7	3.0	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.7
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	0.180	0.190	0.170	0.180	0.240	0.190	0.190	0.200	0.190	0.190	0	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	1.8	1.9	1.7	1.8	2.4	1.9	1.9	2.0	1.9	1.9	0	1.0

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

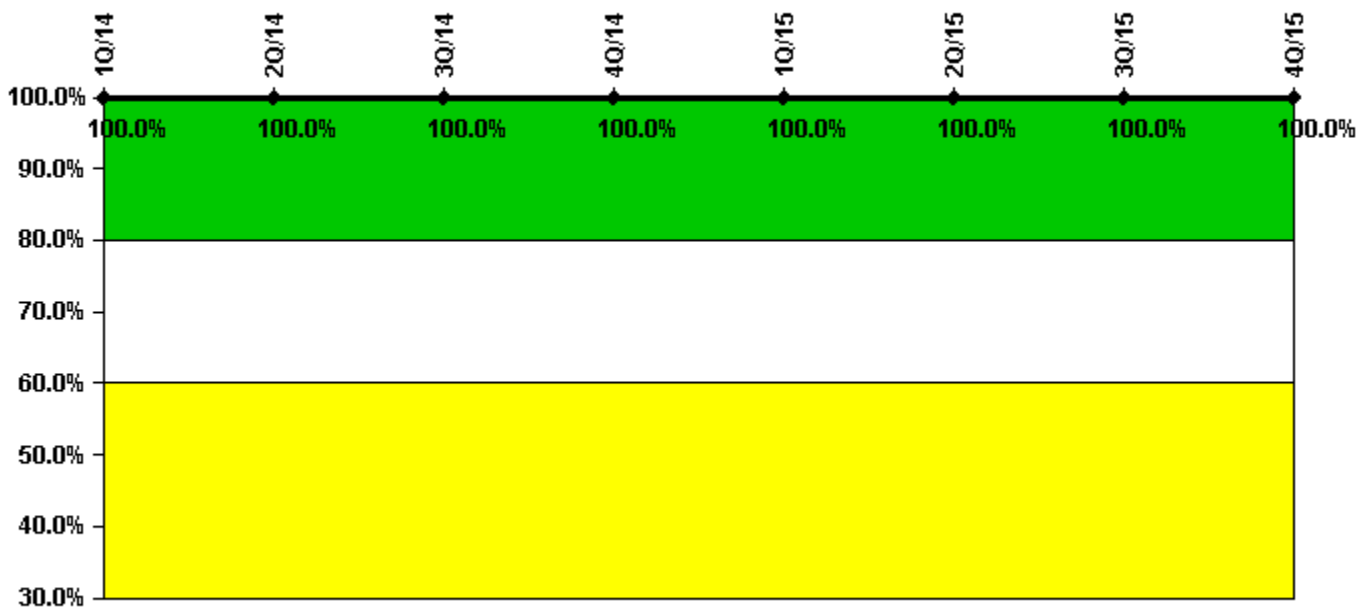
Notes

Drill/Exercise Performance	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful opportunities	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

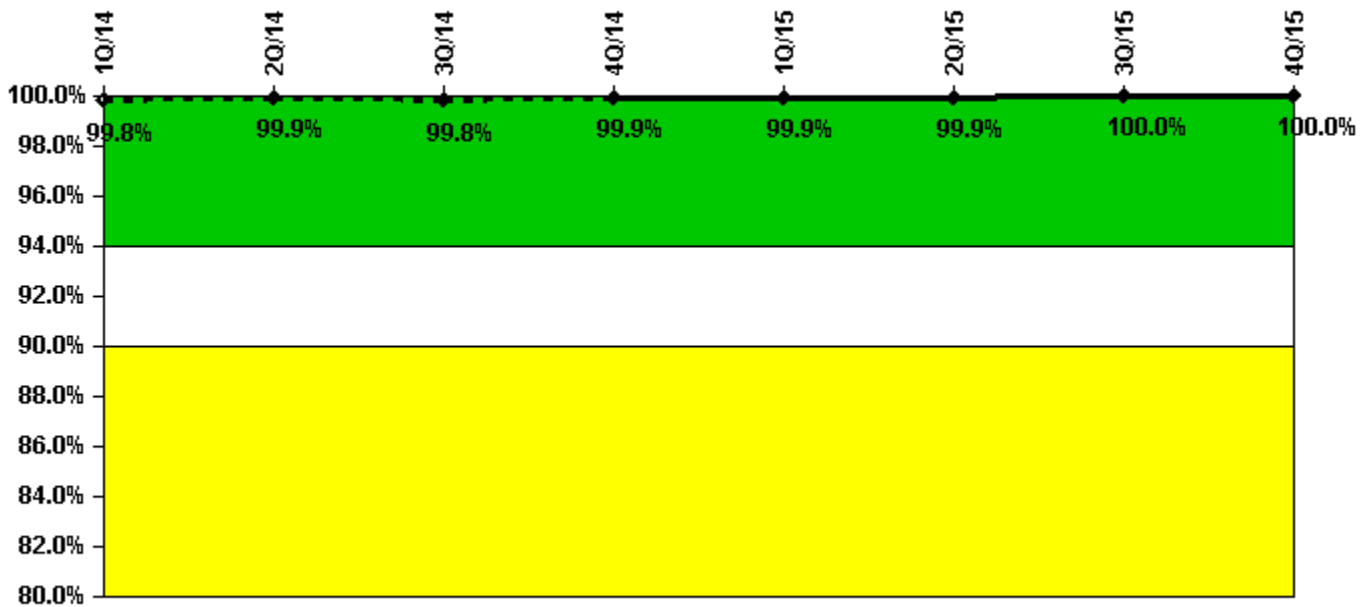
ERO Drill Participation	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Participating Key personnel	156.0	152.0	154.0	151.0	141.0	157.0	157.0	165.0
Total Key personnel	156.0	152.0	154.0	151.0	141.0	157.0	157.0	165.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

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



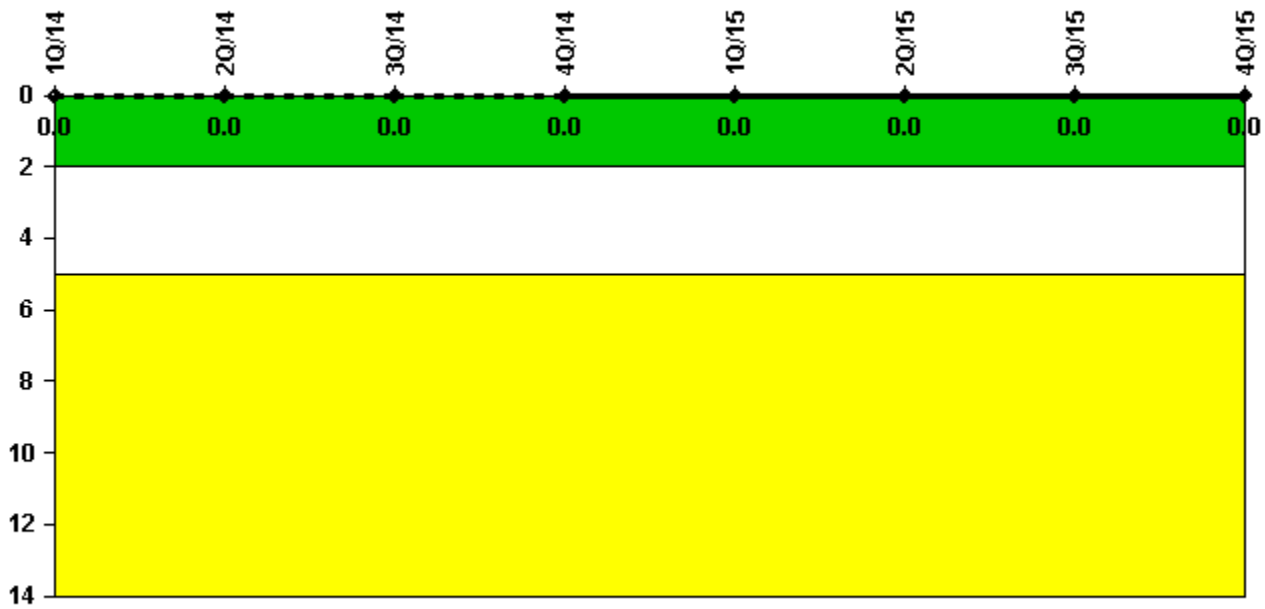
Thresholds: White < 94.0% Yellow < 90.0%

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



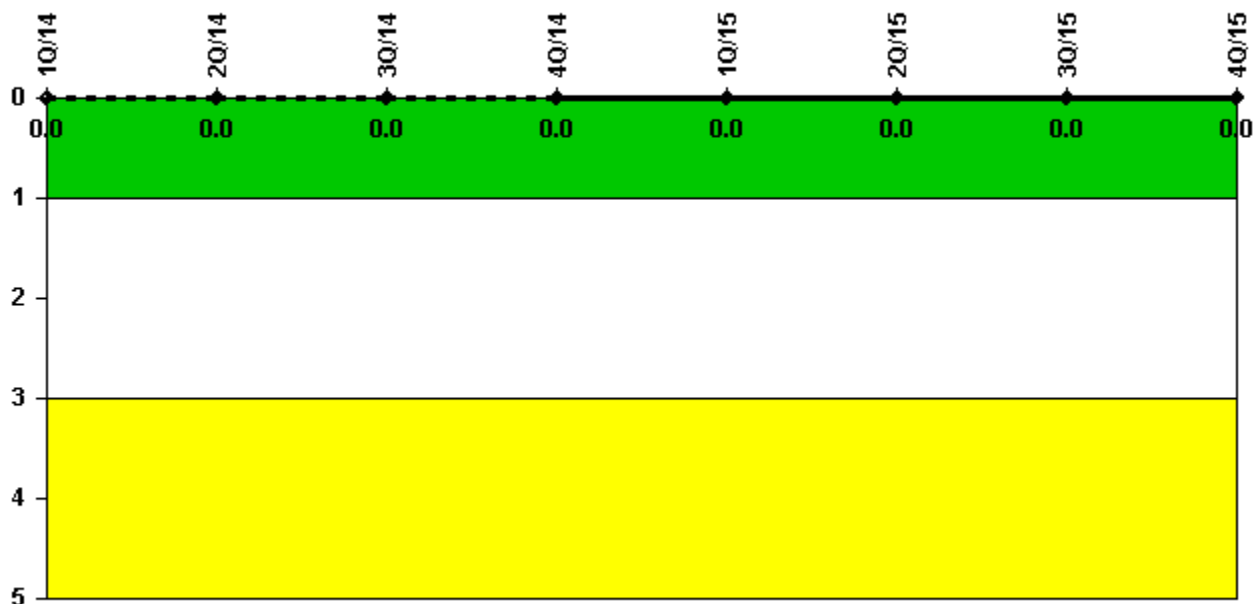
Thresholds: White > 2.0 Yellow > 5.0

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

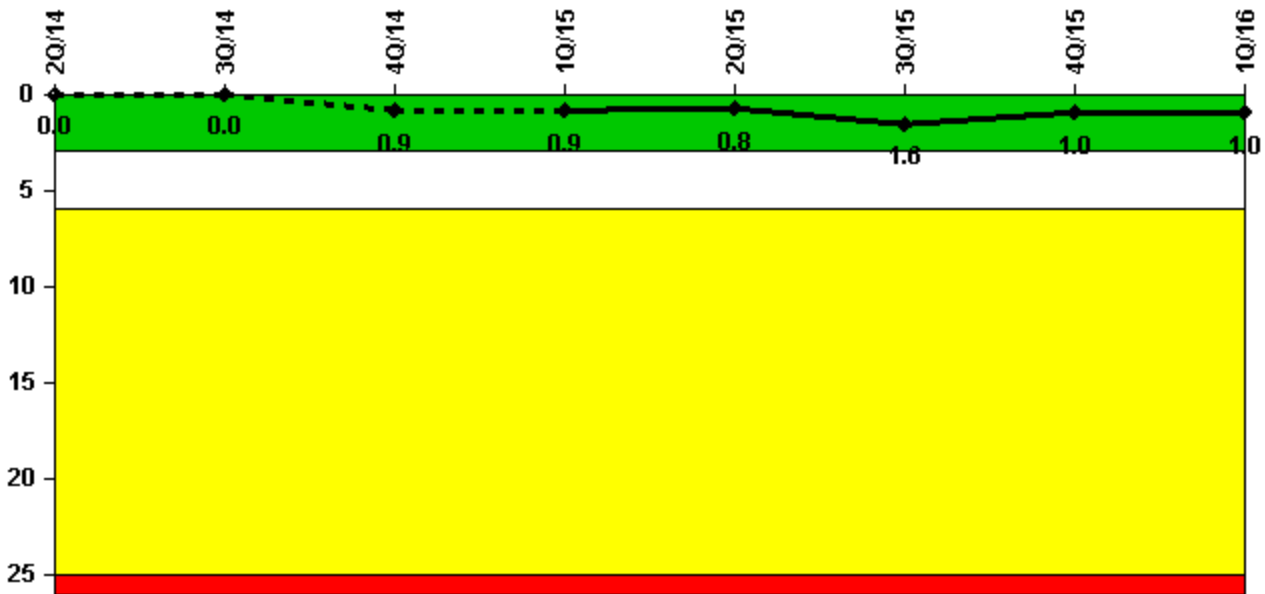
Surry 2

1Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



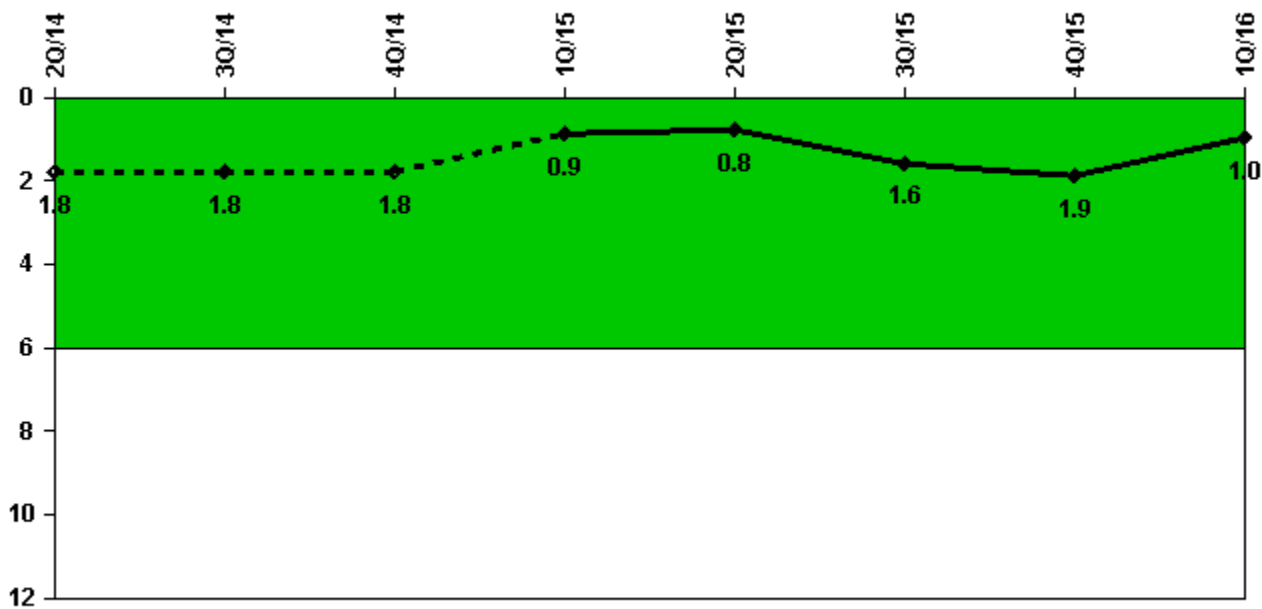
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned scrams	0	0	1.0	0	0	1.0	0	0
Critical hours	1445.8	2208.0	2155.2	2159.0	2184.0	1991.7	943.8	2183.0
Indicator value	0	0	0.9	0.9	0.8	1.6	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

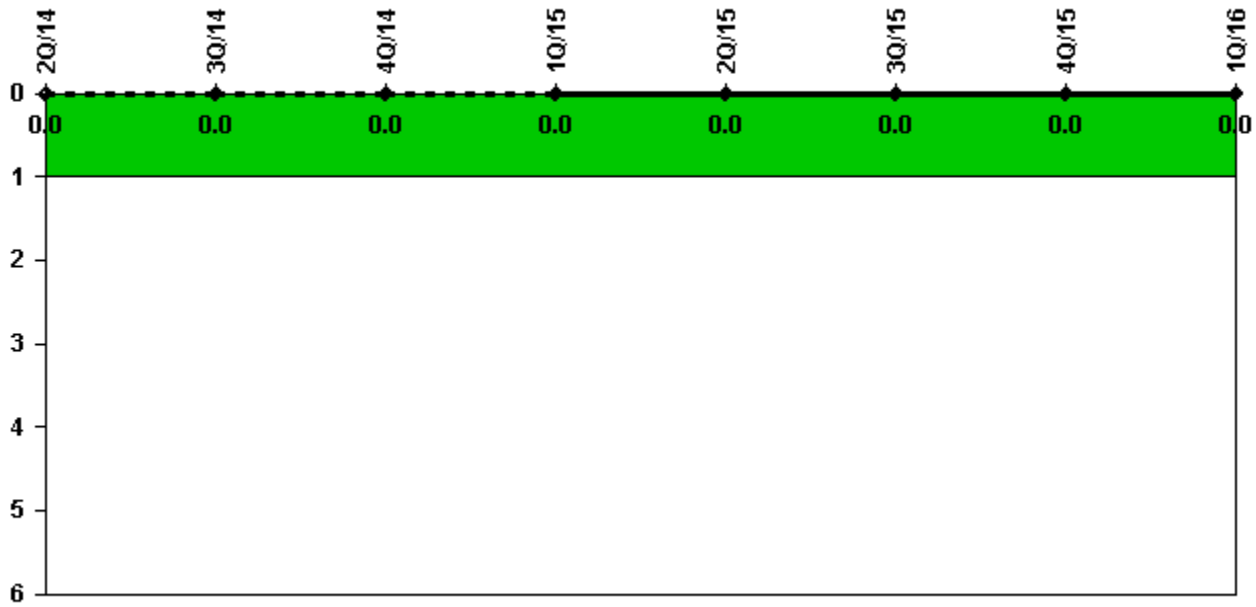
Notes

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	1.0	0	1.0	0	0
Critical hours	1445.8	2208.0	2155.2	2159.0	2184.0	1991.7	943.8	2183.0
Indicator value	1.8	1.8	1.8	0.9	0.8	1.6	1.9	1.0

Licensee Comments:

3Q/14: A review, prompted by the NRC, determined the March 2014 Unit 2 shutdown to repair a pressurizer spray valve was also an unplanned power change. Historical data was corrected with no change in color.

Unplanned Scrams with Complications



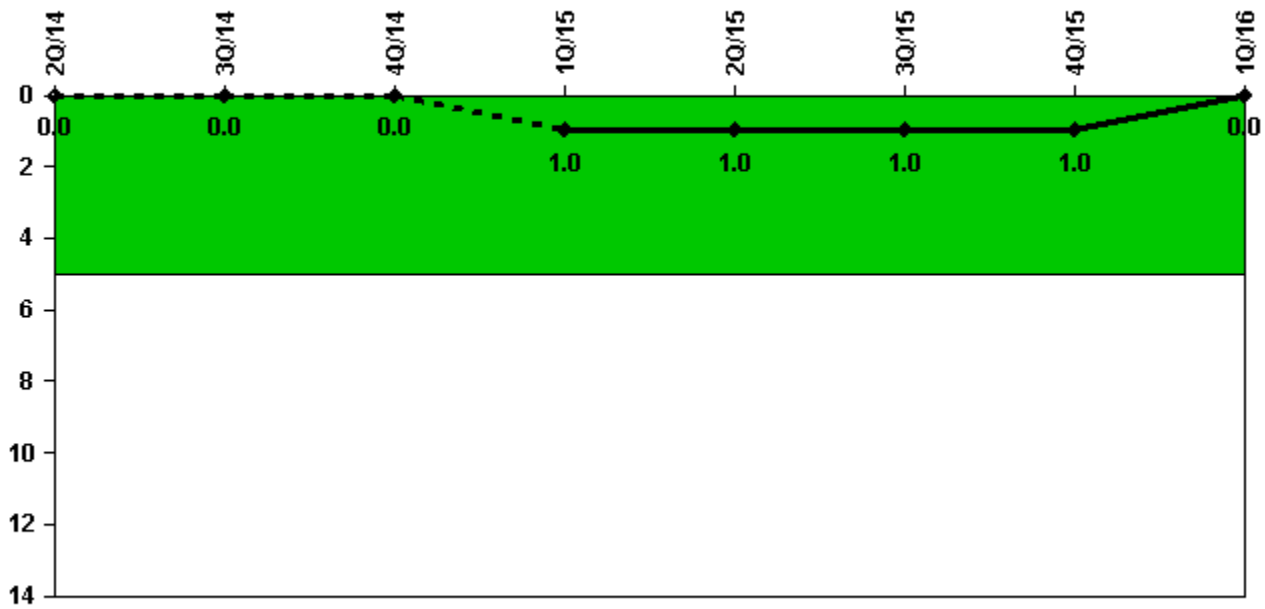
Thresholds: White > 1.0

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

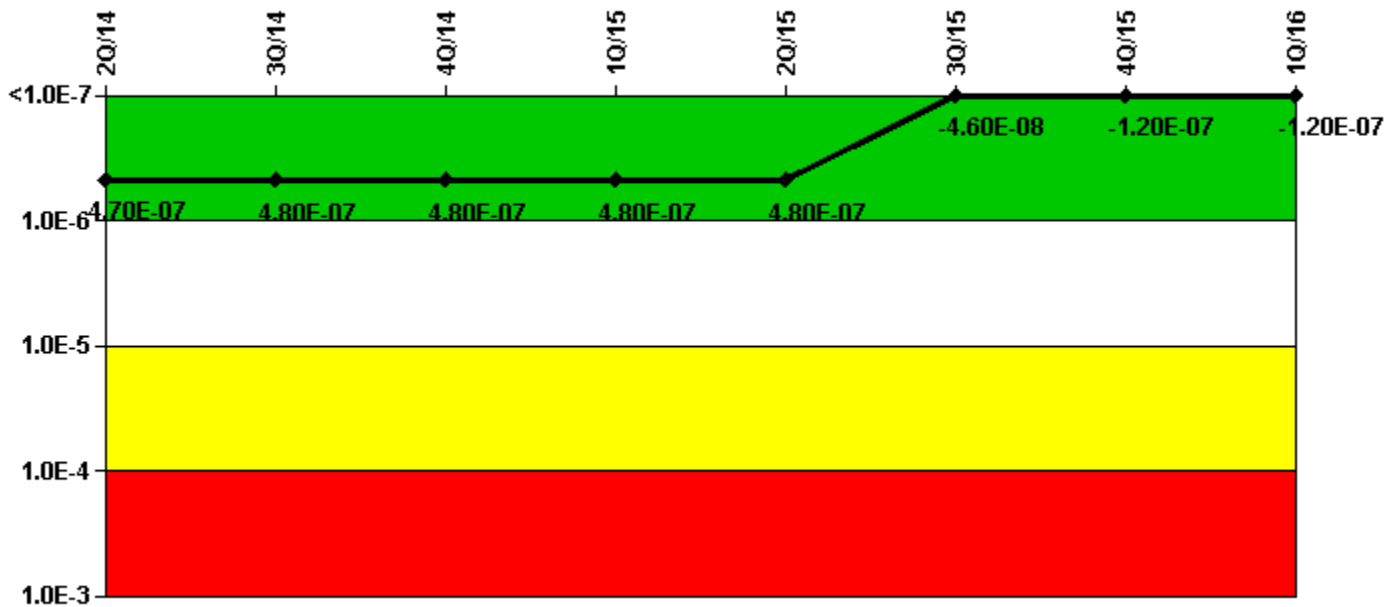
Notes

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)	8.52E-10	1.06E-09	1.44E-09	2.02E-10	-1.06E-09	-1.33E-08	-1.61E-08	-1.61E-08
URI (ΔCDF)	4.72E-07	4.77E-07	4.80E-07	4.80E-07	4.83E-07	-3.22E-08	-1.02E-07	-1.03E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.70E-07	4.80E-07	4.80E-07	4.80E-07	4.80E-07	-4.60E-08	-1.20E-07	-1.20E-07

Licensee Comments:

2Q/15: Risk Cap Invoked.

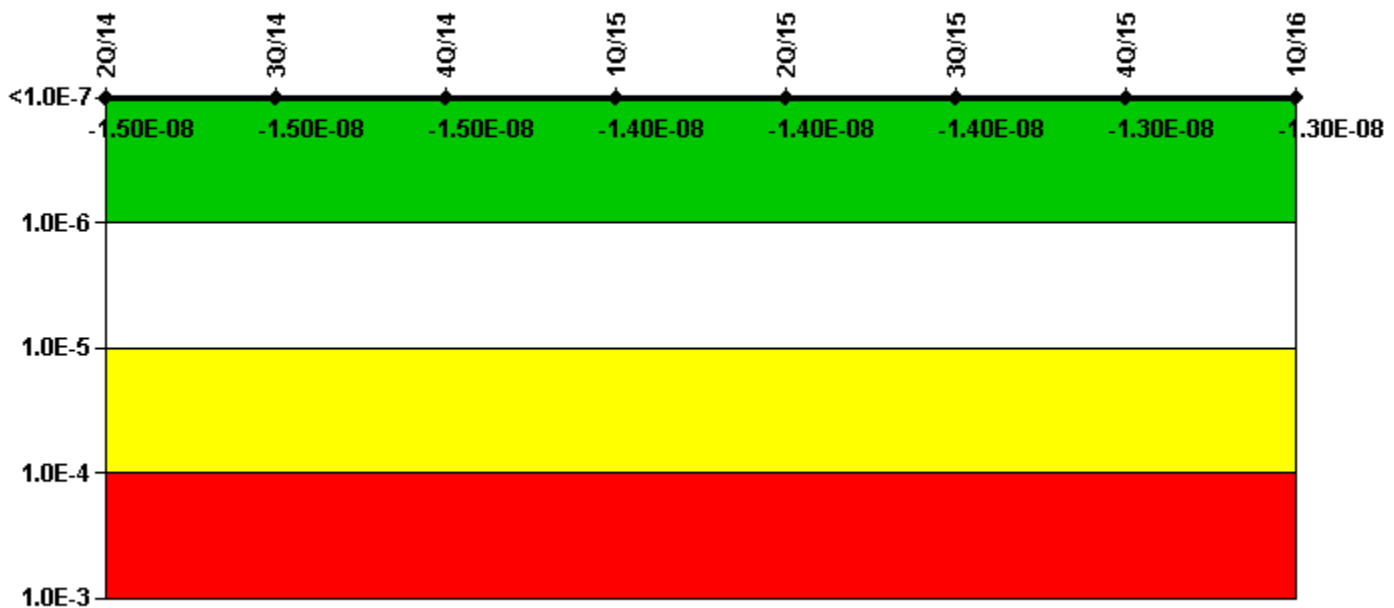
1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked. A review determined a minor discrepancy of 4 minutes of unavailability for #3 diesel for August 2013. Historical data was changed with no change in color.

2Q/14: 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	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	-4.41E-10	-4.89E-10	-6.00E-10	-6.34E-10	-6.29E-10	-7.17E-10	1.59E-10	-3.84E-11
URI (Δ CDF)	-1.45E-08	-1.42E-08	-1.40E-08	-1.36E-08	-1.36E-08	-1.36E-08	-1.34E-08	-1.33E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.50E-08	-1.50E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.30E-08	-1.30E-08

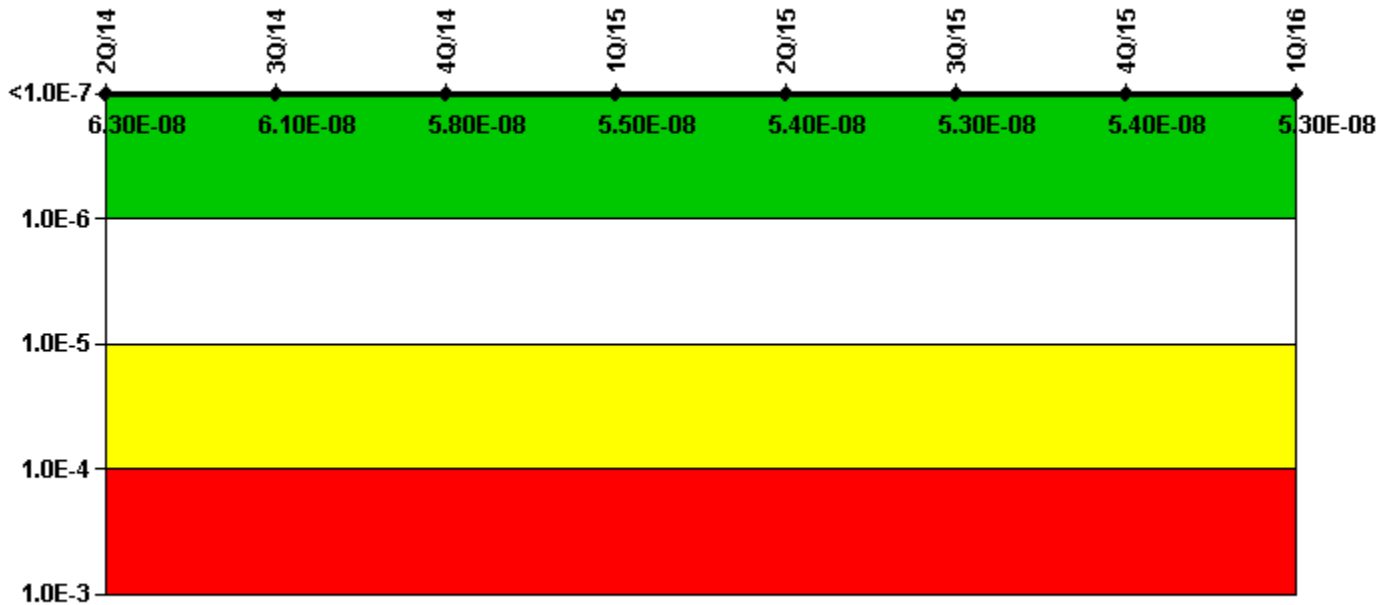
Licensee Comments:

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, 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)	-3.33E-09	-3.33E-09	-3.25E-09	-3.25E-09	-3.30E-09	-3.30E-09	-3.23E-09	-3.24E-09
URI (Δ CDF)	6.63E-08	6.47E-08	6.15E-08	5.86E-08	5.72E-08	5.58E-08	5.72E-08	5.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.30E-08	6.10E-08	5.80E-08	5.50E-08	5.40E-08	5.30E-08	5.40E-08	5.30E-08

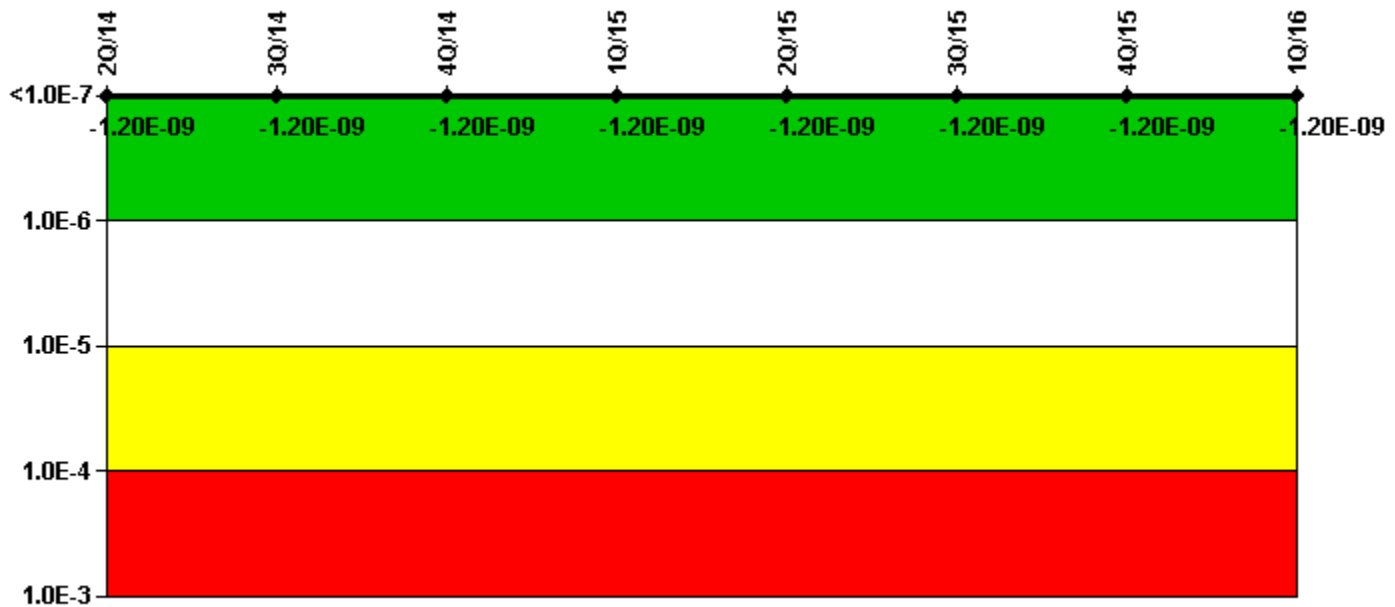
Licensee Comments:

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)	-2.26E-10	-2.38E-10	-2.42E-10	-2.65E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10
URI (Δ CDF)	-9.84E-10	-9.75E-10	-9.65E-10	-9.46E-10	-9.46E-10	-9.46E-10	-9.47E-10	-9.37E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09

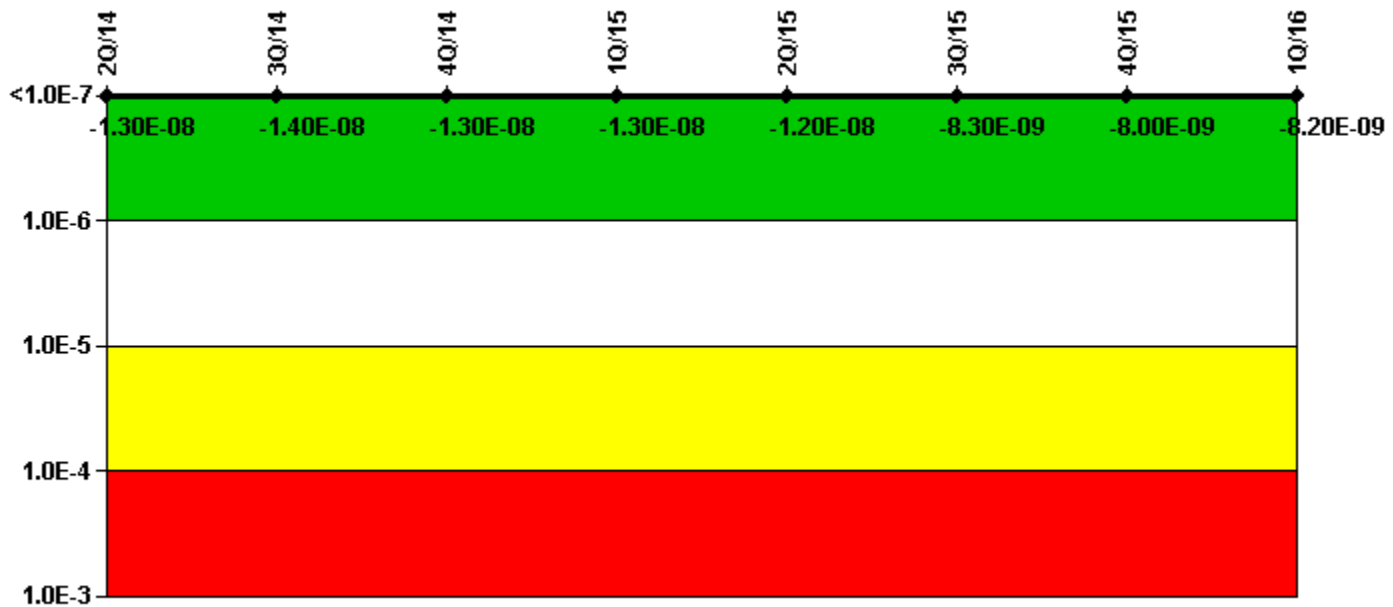
Licensee Comments:

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).

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)	-1.40E-09	-1.40E-09	-1.27E-09	-1.27E-09	-1.27E-09	-1.25E-09	-1.37E-09	-1.50E-09
URI (Δ CDF)	-1.21E-08	-1.22E-08	-1.19E-08	-1.13E-08	-1.09E-08	-7.07E-09	-6.67E-09	-6.75E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-08	-1.40E-08	-1.30E-08	-1.30E-08	-1.20E-08	-8.30E-09	-8.00E-09	-8.20E-09

Licensee Comments:

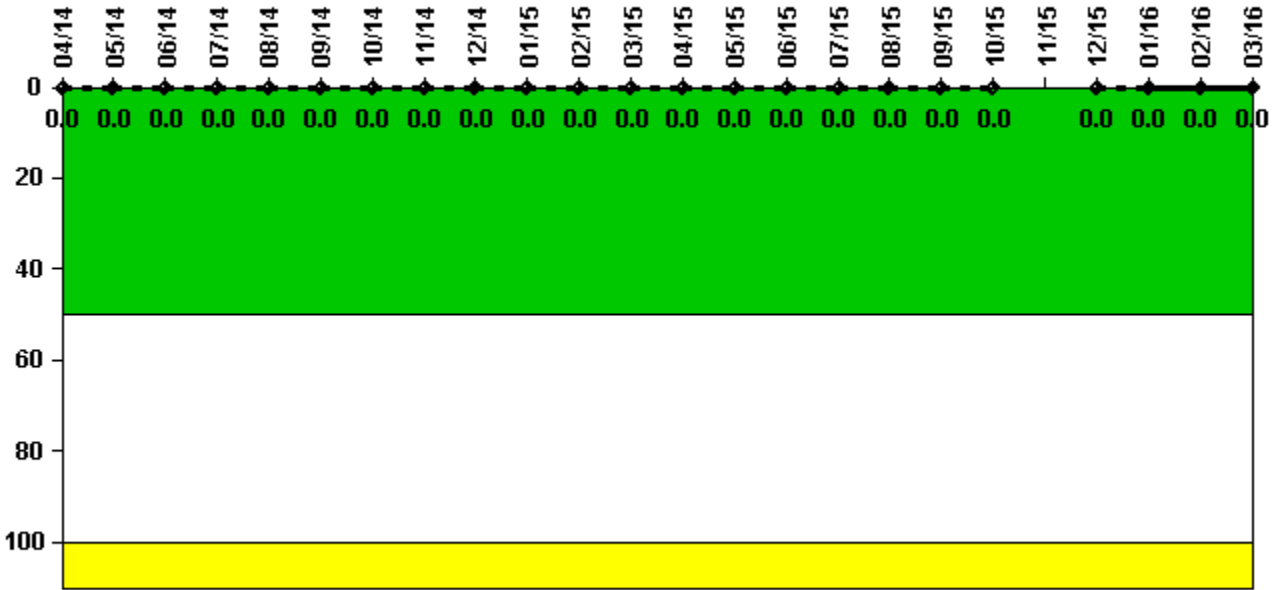
4Q/14: Changed PRA Parameter(s). An MSPI review identified several probabilistic risk analysis coefficients that were incorrect. The MSPI Basis Document and coefficients were corrected with no change in color.

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

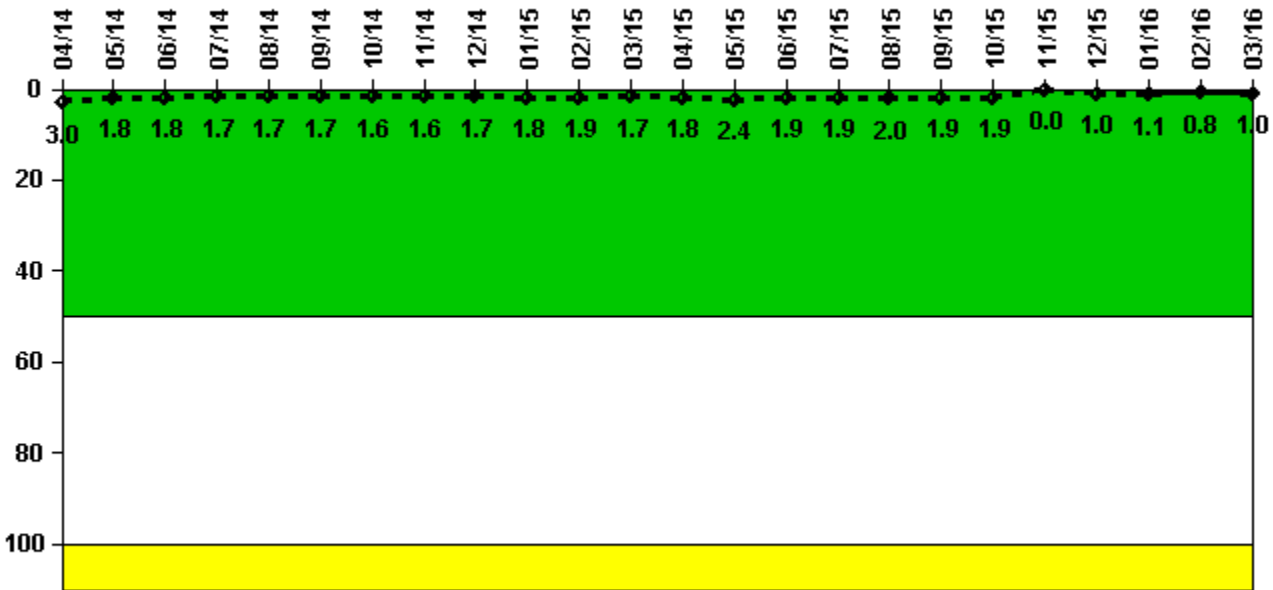
Notes

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	0.000151	0.000439	0.000066	0.000079	0.000077	0.000100	0.000079	0.000085	0.000109	0.000095	0.000138	0.000113
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum activity	0.000103	0.000115	0.000126	0.000116	0.000064	0.000130	0.000182	N/A	0.000187	0.000063	0.000186	0.000231
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	N/A	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

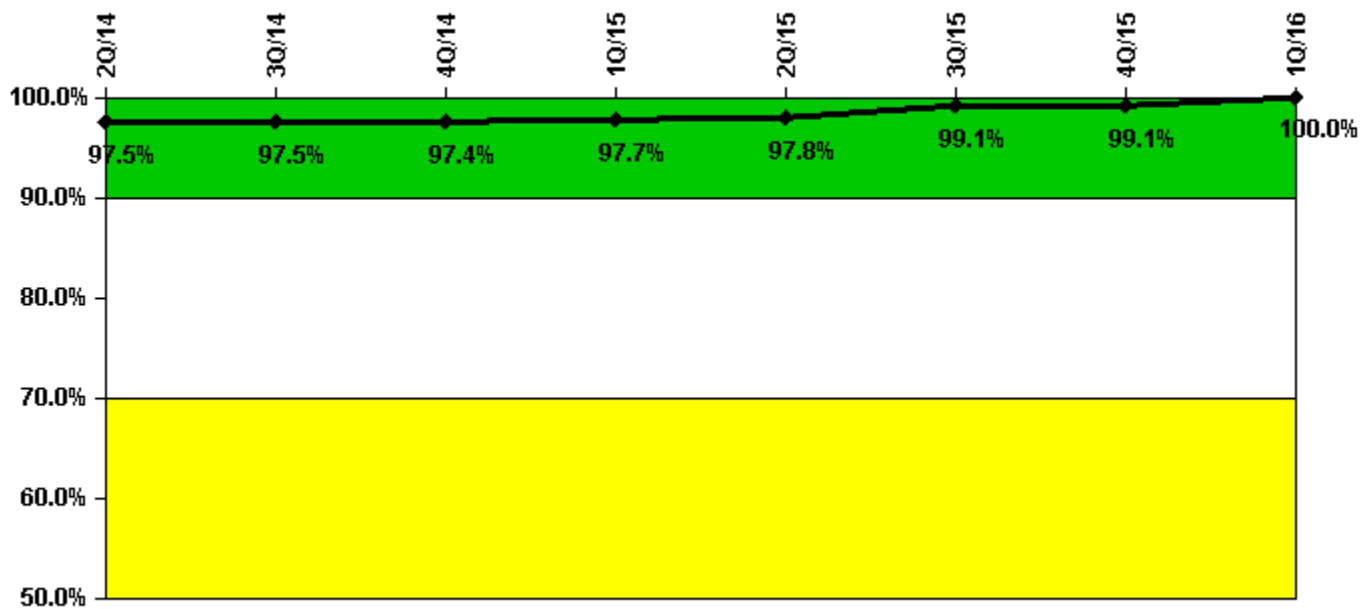
Notes

Reactor Coolant System Leakage	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum leakage	0.300	0.180	0.180	0.170	0.170	0.170	0.160	0.160	0.170	0.180	0.190	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	3.0	1.8	1.8	1.7	1.7	1.7	1.6	1.6	1.7	1.8	1.9	1.7

Reactor Coolant System Leakage	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum leakage	0.180	0.240	0.190	0.190	0.200	0.190	0.190	0	0.100	0.110	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	1.8	2.4	1.9	1.9	2.0	1.9	1.9	0	1.0	1.1	0.8	1.0

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

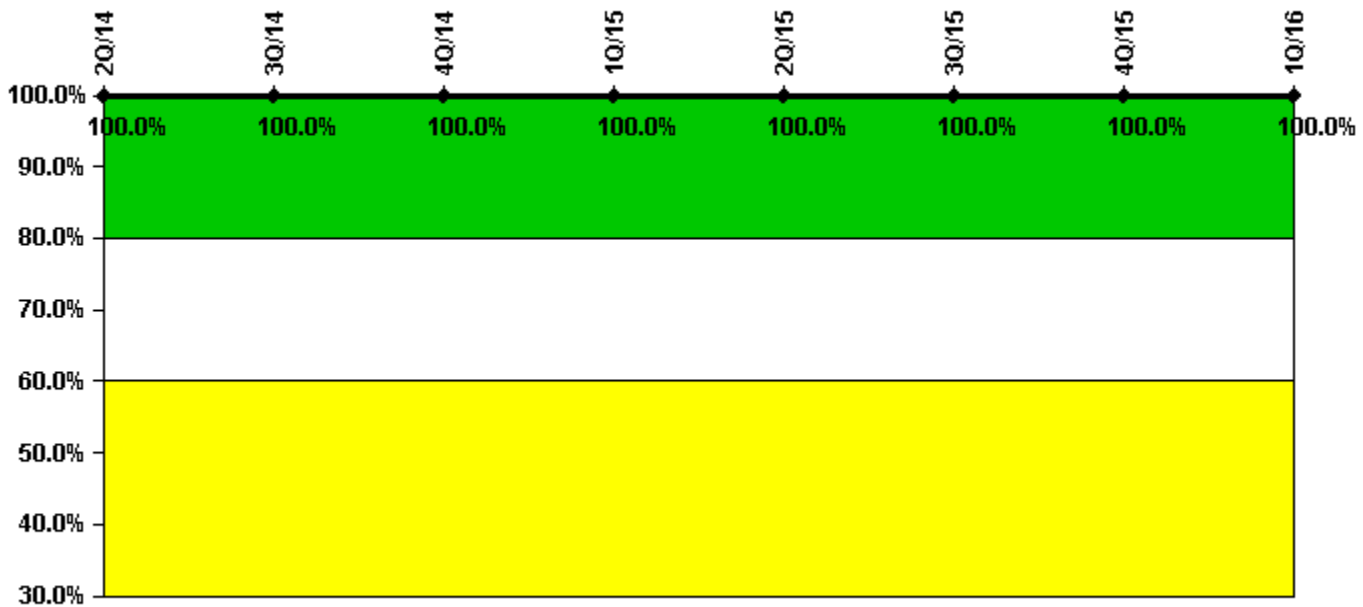
Notes

Drill/Exercise Performance	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful opportunities	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

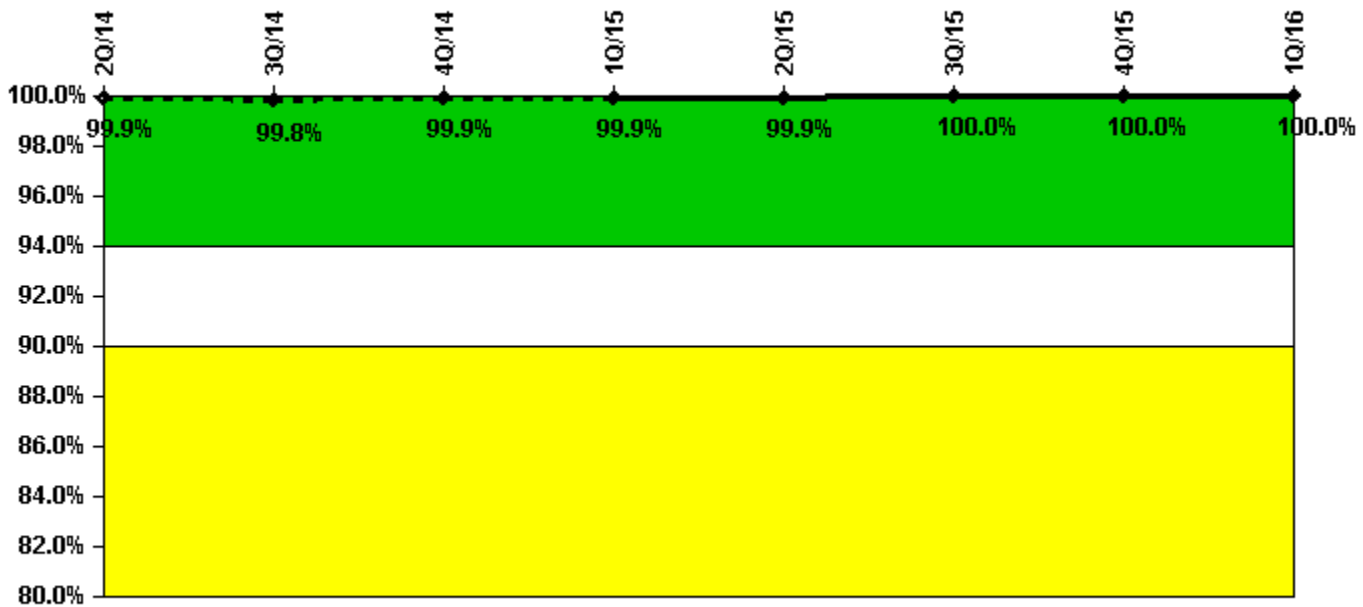
ERO Drill Participation	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Participating Key personnel	152.0	154.0	151.0	141.0	157.0	157.0	165.0	175.0
Total Key personnel	152.0	154.0	151.0	141.0	157.0	157.0	165.0	175.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

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



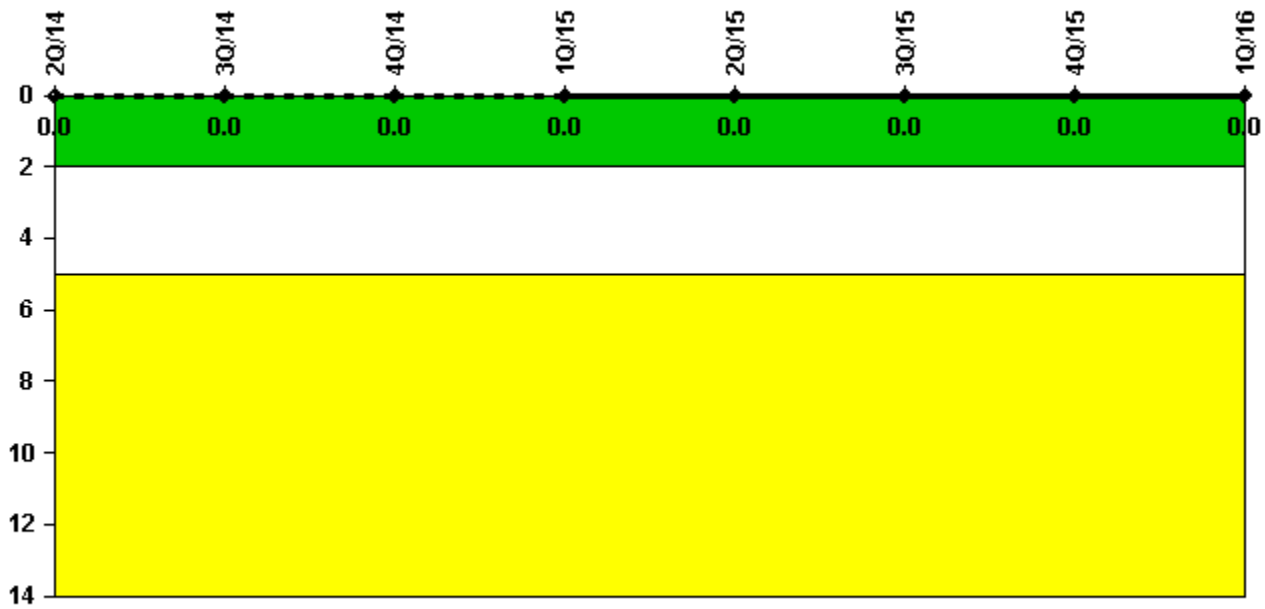
Thresholds: White < 94.0% Yellow < 90.0%

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



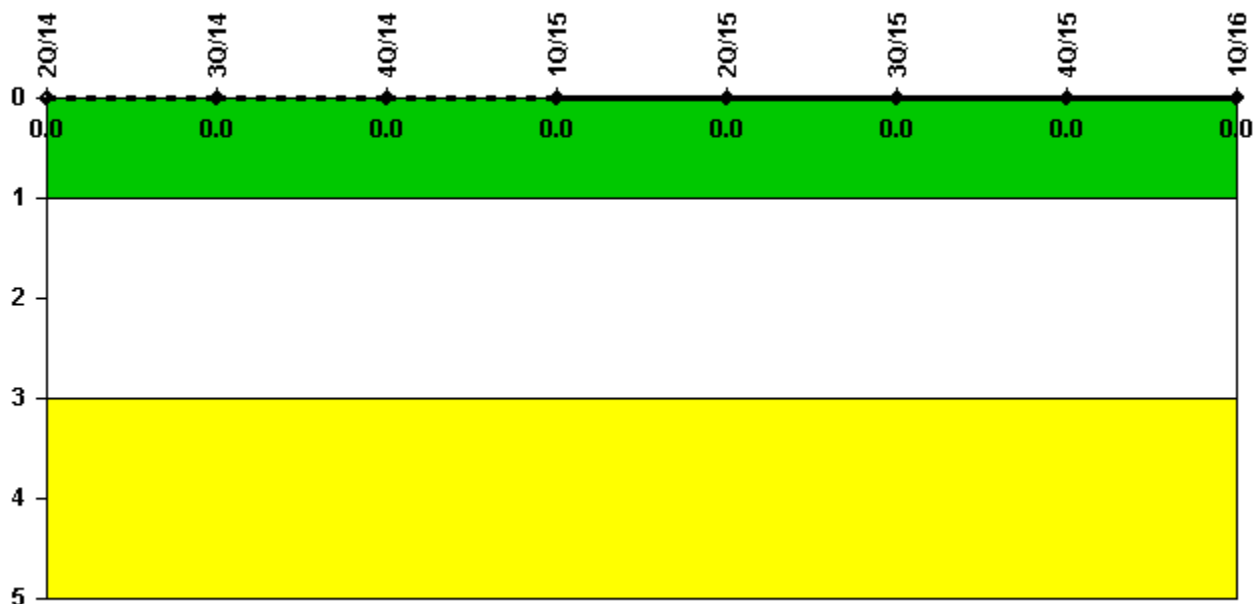
Thresholds: White > 2.0 Yellow > 5.0

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

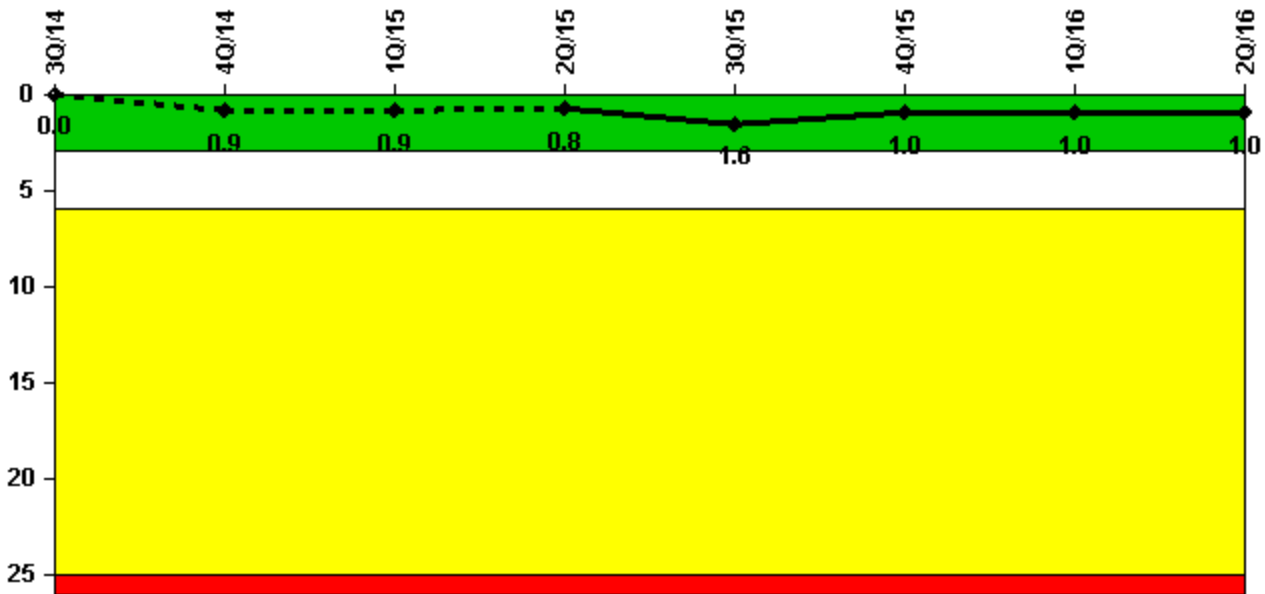
Surry 2

2Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



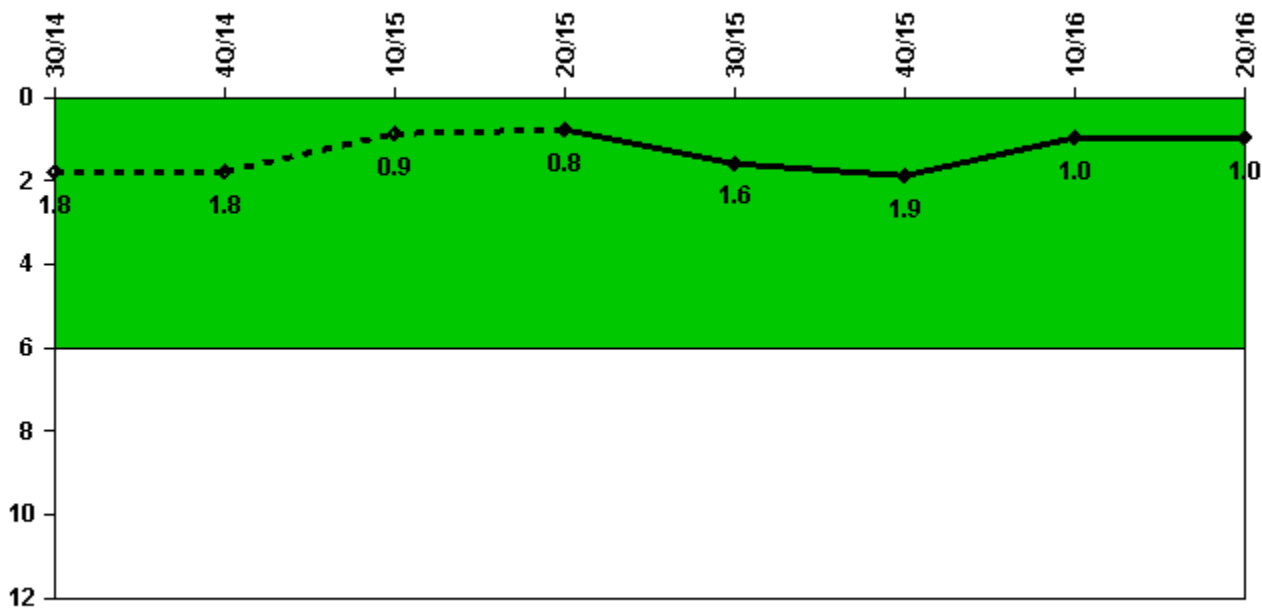
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned scrams	0	1.0	0	0	1.0	0	0	0
Critical hours	2208.0	2155.2	2159.0	2184.0	1991.7	943.8	2183.0	2184.0
Indicator value	0	0.9	0.9	0.8	1.6	1.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

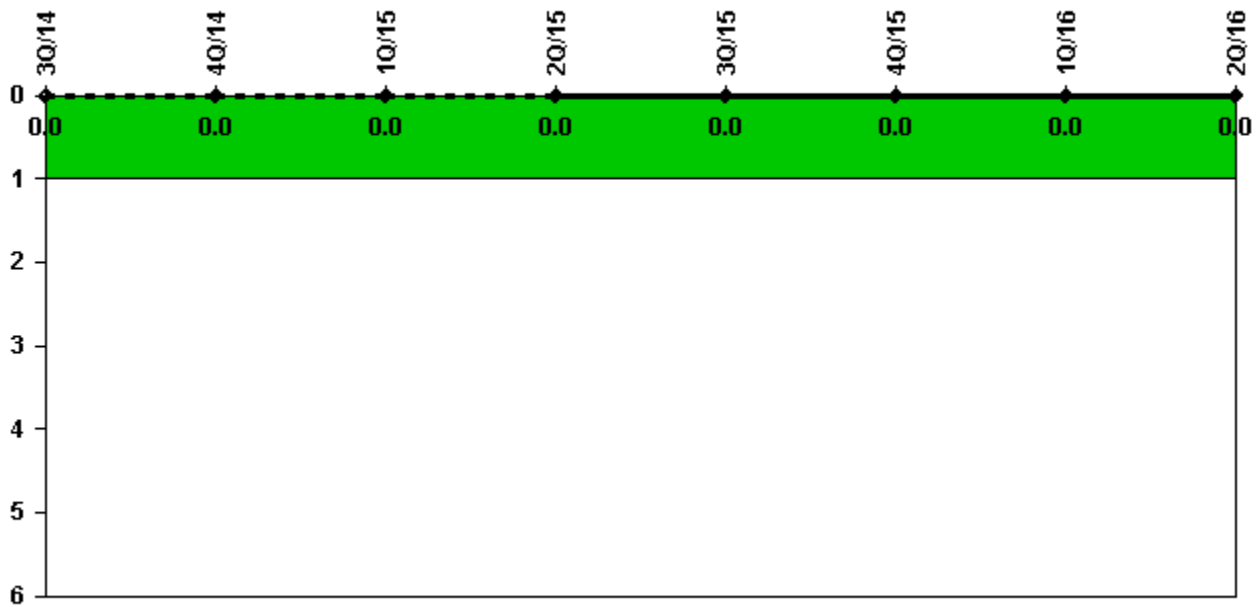
Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned power changes	0	0	1.0	0	1.0	0	0	0
Critical hours	2208.0	2155.2	2159.0	2184.0	1991.7	943.8	2183.0	2184.0
Indicator value	1.8	1.8	0.9	0.8	1.6	1.9	1.0	1.0

Licensee Comments:

3Q/14: A review, prompted by the NRC, determined the March 2014 Unit 2 shutdown to repair a pressurizer spray valve was also an unplanned power change. Historical data was corrected with no change in color.

Unplanned Scrams with Complications



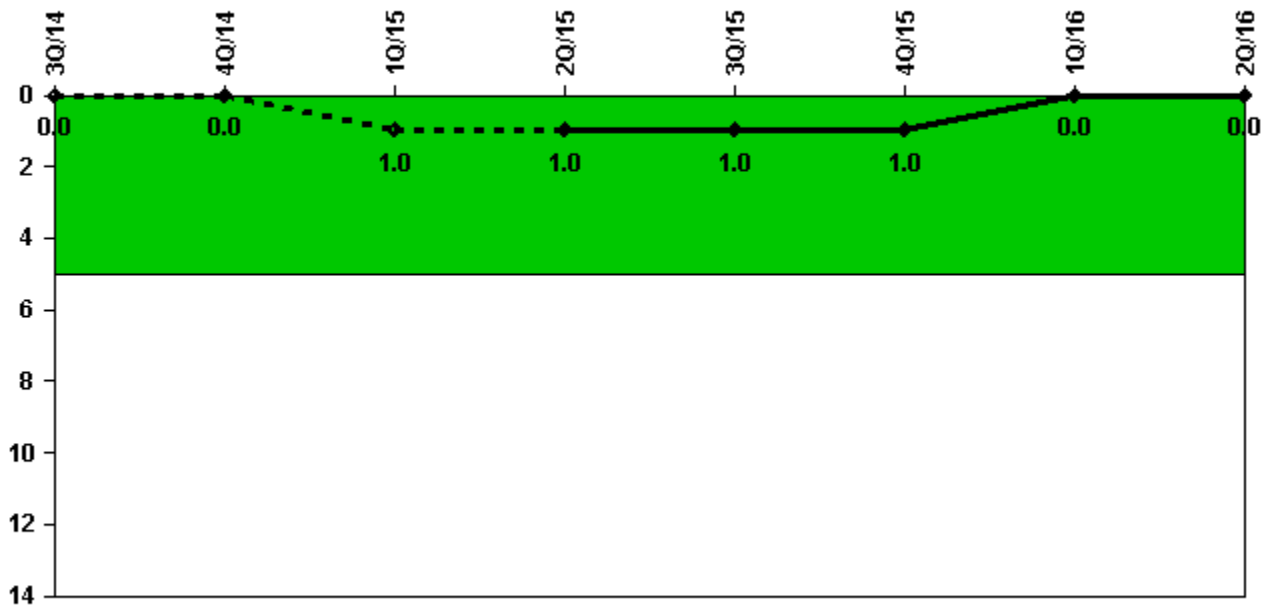
Thresholds: White > 1.0

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

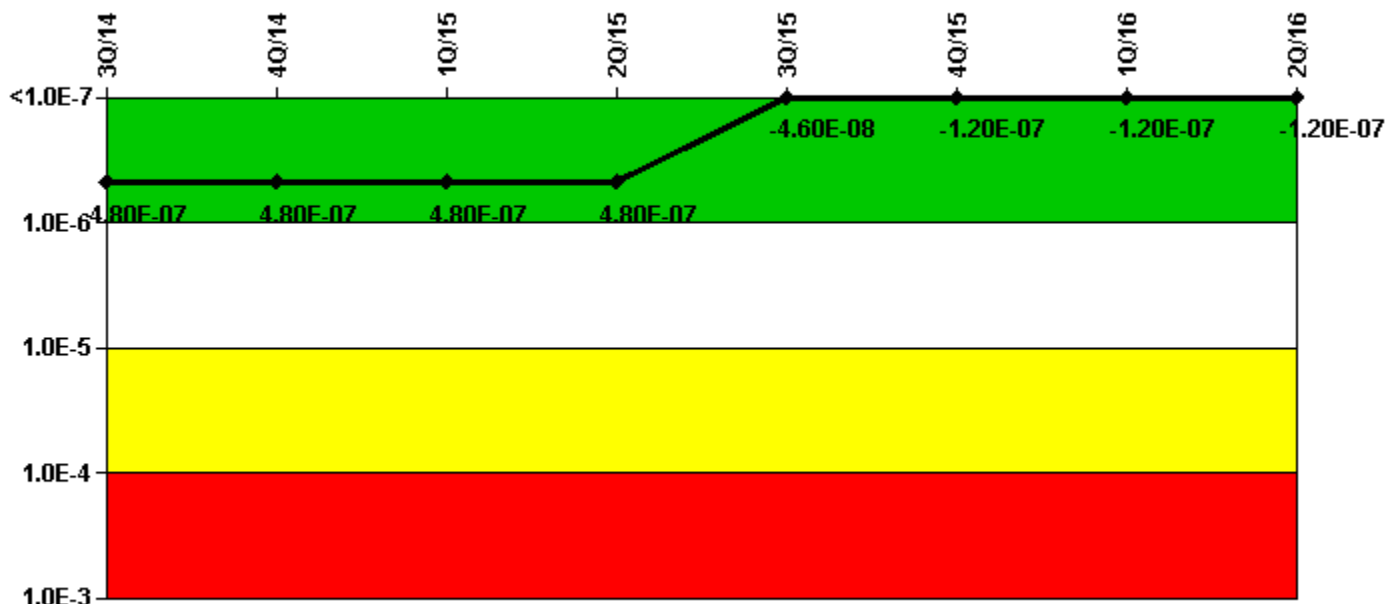
Notes

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)	1.06E-09	1.44E-09	2.02E-10	-1.06E-09	-1.33E-08	-1.61E-08	-1.61E-08	-1.58E-08
URI (ΔCDF)	4.77E-07	4.80E-07	4.80E-07	4.83E-07	-3.22E-08	-1.02E-07	-1.03E-07	-1.03E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.80E-07	4.80E-07	4.80E-07	4.80E-07	-4.60E-08	-1.20E-07	-1.20E-07	-1.20E-07

Licensee Comments:

2Q/15: Risk Cap Invoked.

1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked. A review determined a minor discrepancy of 4 minutes of unavailability for #3 diesel for August 2013. Historical data was changed 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

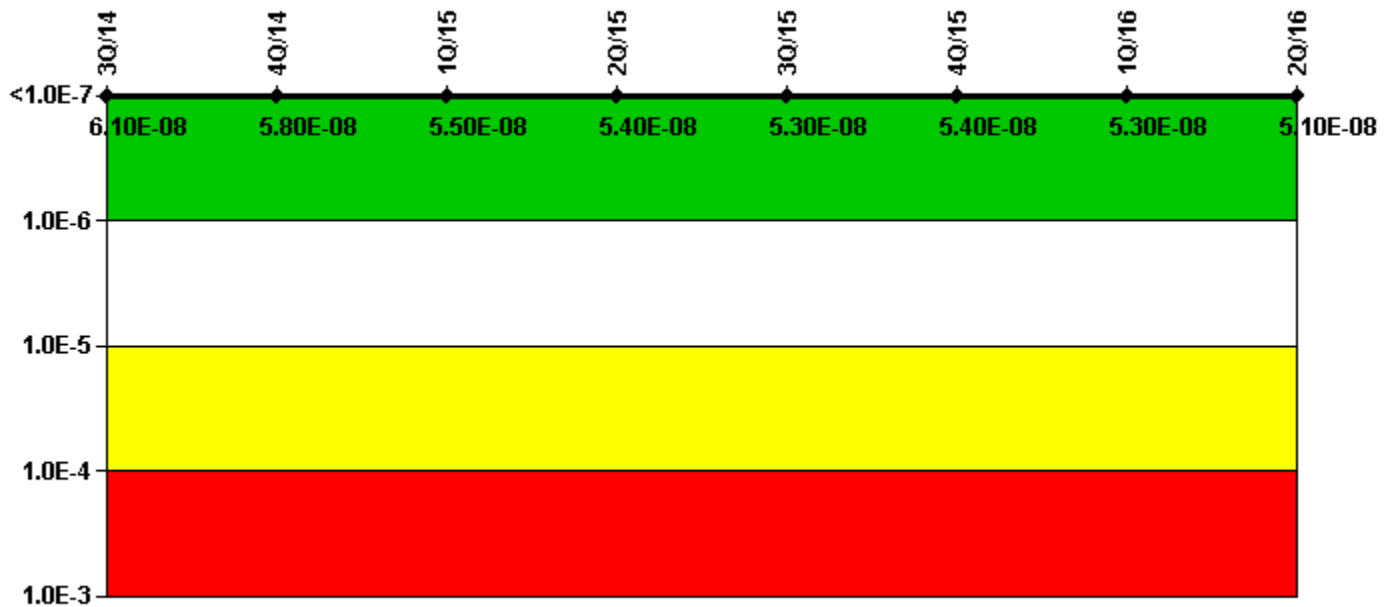
Mitigating Systems Performance Index, High Pressure Injection System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	-4.89E-10	-6.00E-10	-6.34E-10	-6.29E-10	-7.17E-10	1.59E-10	-3.84E-11	-5.44E-11
URI (Δ CDF)	-1.42E-08	-1.40E-08	-1.36E-08	-1.36E-08	-1.36E-08	-1.34E-08	-1.33E-08	-1.31E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.50E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.30E-08	-1.30E-08	-1.30E-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, 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)	-3.33E-09	-3.25E-09	-3.25E-09	-3.30E-09	-3.30E-09	-3.23E-09	-3.24E-09	-4.84E-09
URI (Δ CDF)	6.47E-08	6.15E-08	5.86E-08	5.72E-08	5.58E-08	5.72E-08	5.59E-08	5.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.10E-08	5.80E-08	5.50E-08	5.40E-08	5.30E-08	5.40E-08	5.30E-08	5.10E-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).

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

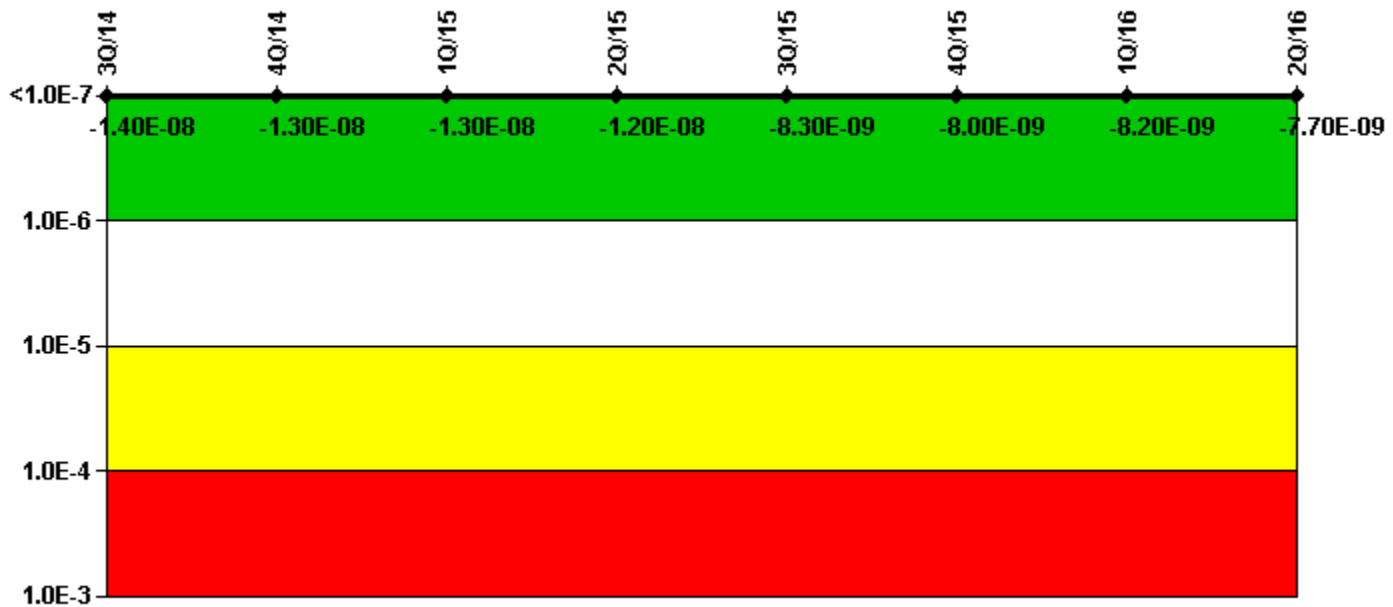
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	-2.38E-10	-2.42E-10	-2.65E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10
URI (Δ CDF)	-9.75E-10	-9.65E-10	-9.46E-10	-9.46E-10	-9.46E-10	-9.47E-10	-9.37E-10	-9.27E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-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).

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

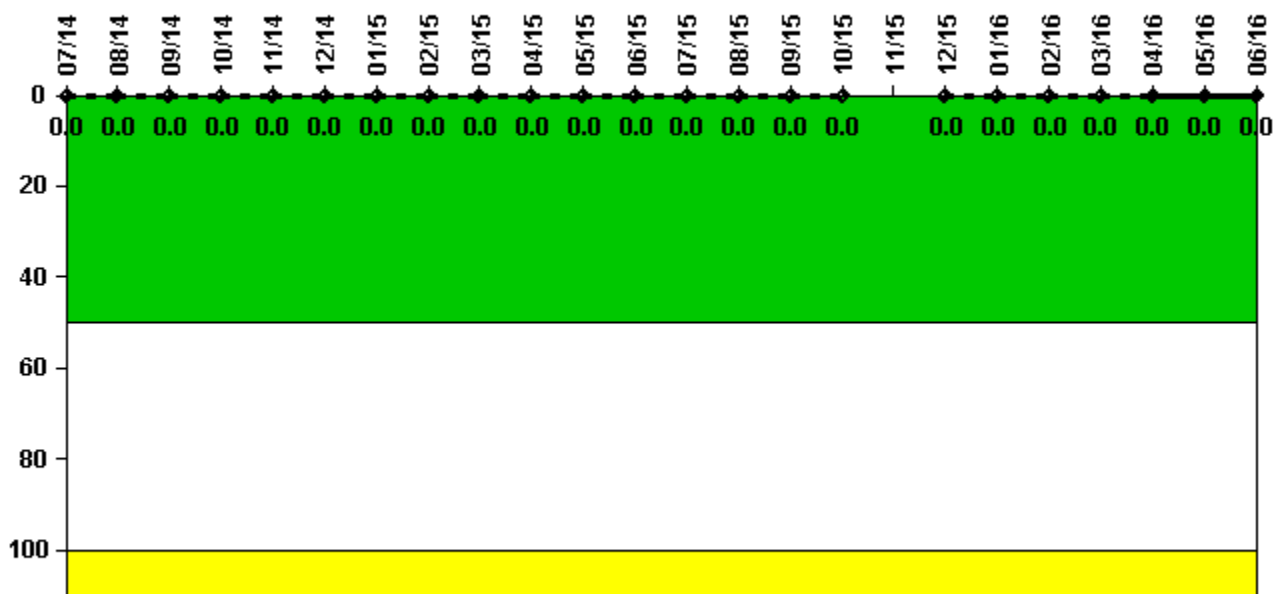
Mitigating Systems Performance Index, Cooling Water Systems	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	-1.40E-09	-1.27E-09	-1.27E-09	-1.27E-09	-1.25E-09	-1.37E-09	-1.50E-09	-1.50E-09
URI (Δ CDF)	-1.22E-08	-1.19E-08	-1.13E-08	-1.09E-08	-7.07E-09	-6.67E-09	-6.75E-09	-6.25E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	-1.30E-08	-1.30E-08	-1.20E-08	-8.30E-09	-8.00E-09	-8.20E-09	-7.70E-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).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

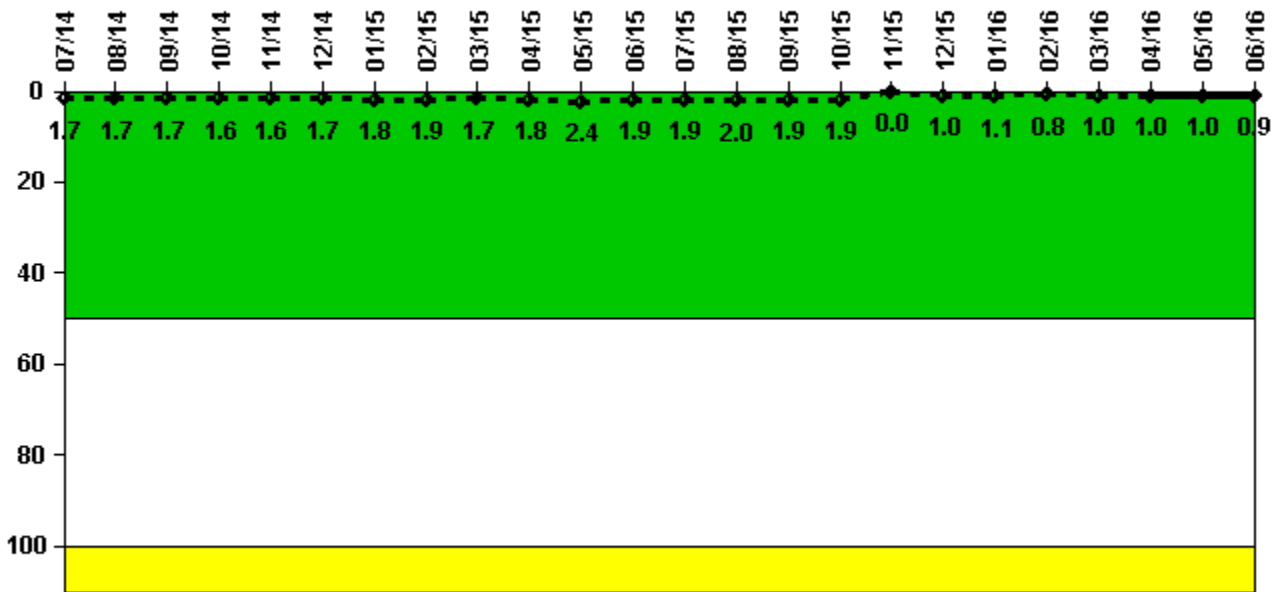
Notes

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	0.000079	0.000077	0.000100	0.000079	0.000085	0.000109	0.000095	0.000138	0.000113	0.000103	0.000115	0.000126
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum activity	0.000116	0.000064	0.000130	0.000182	N/A	0.000187	0.000063	0.000186	0.000231	0.000219	0.000267	0.000345
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	N/A	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

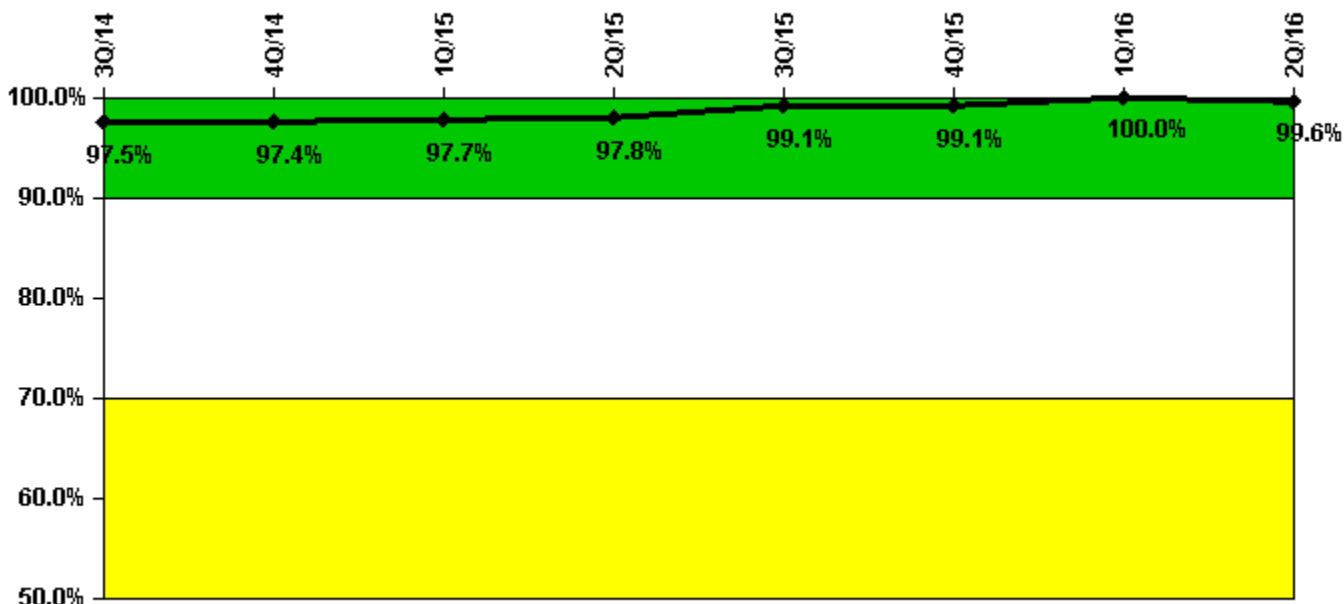
Notes

Reactor Coolant System Leakage	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum leakage	0.170	0.170	0.170	0.160	0.160	0.170	0.180	0.190	0.170	0.180	0.240	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	1.7	1.7	1.7	1.6	1.6	1.7	1.8	1.9	1.7	1.8	2.4	1.9

Reactor Coolant System Leakage	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum leakage	0.190	0.200	0.190	0.190	0	0.100	0.110	0.080	0.100	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	1.9	2.0	1.9	1.9	0	1.0	1.1	0.8	1.0	1.0	1.0	0.9

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

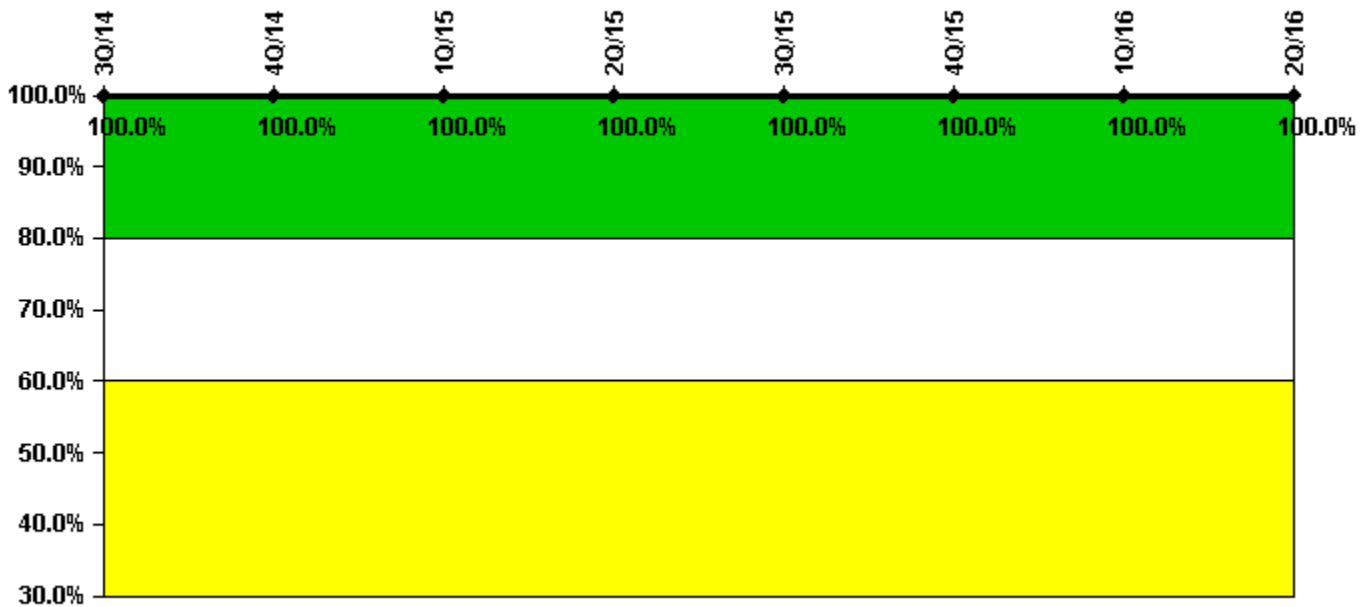
Notes

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

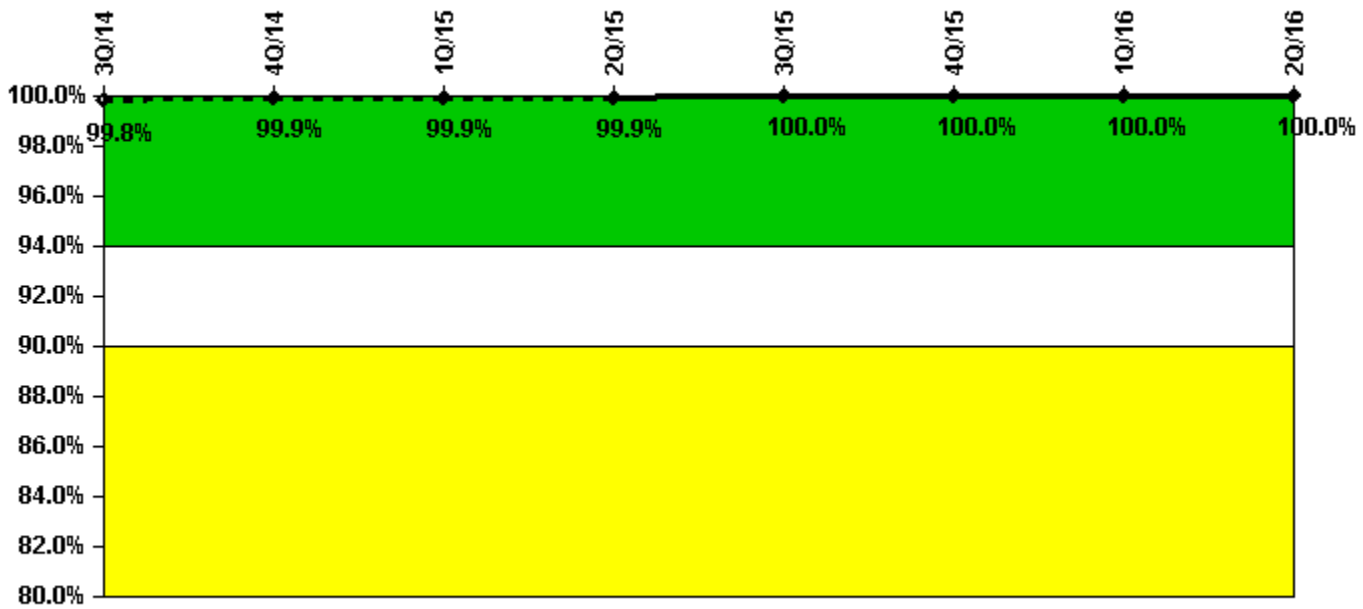
ERO Drill Participation	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Participating Key personnel	154.0	151.0	141.0	157.0	157.0	165.0	175.0	175.0
Total Key personnel	154.0	151.0	141.0	157.0	157.0	165.0	175.0	175.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

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



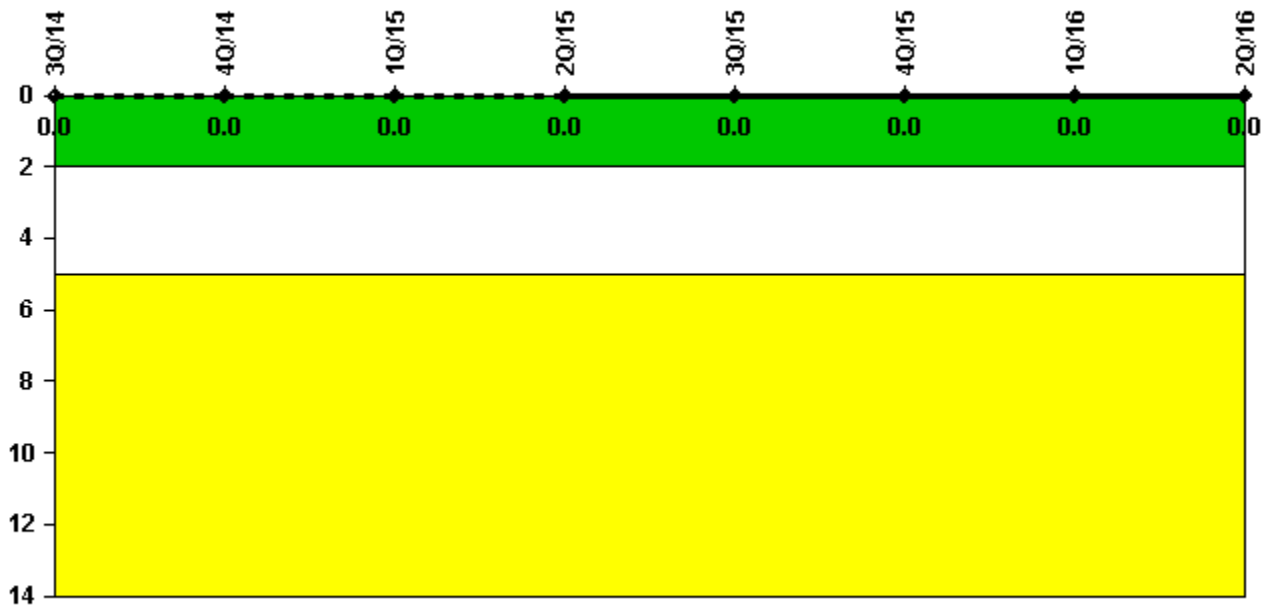
Thresholds: White < 94.0% Yellow < 90.0%

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



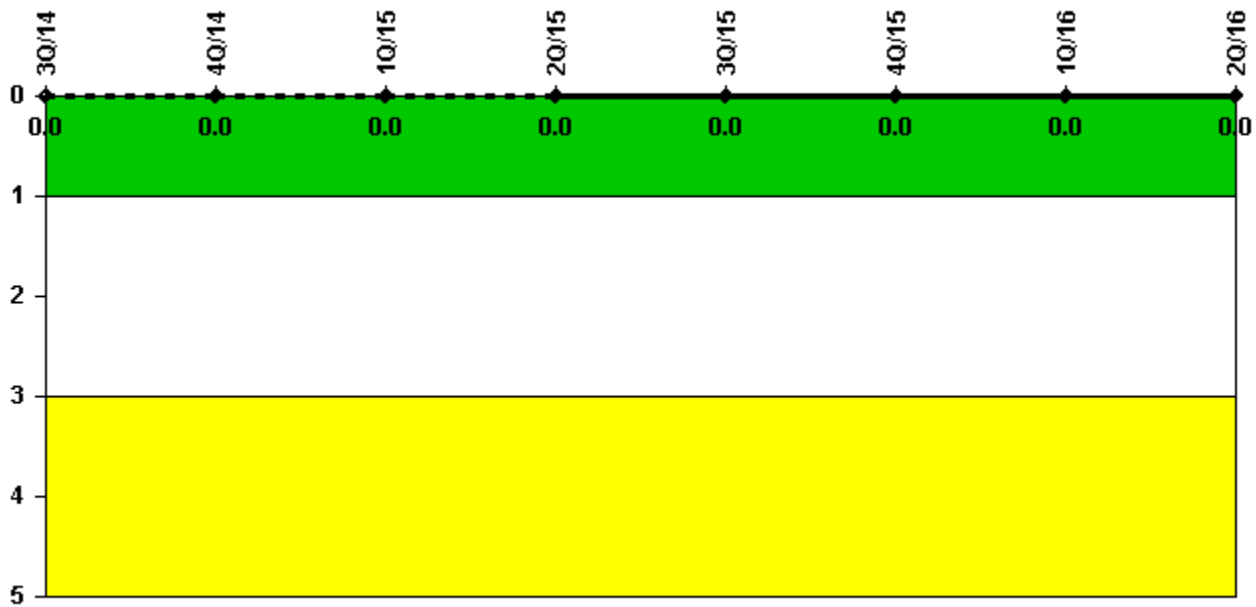
Thresholds: White > 2.0 Yellow > 5.0

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

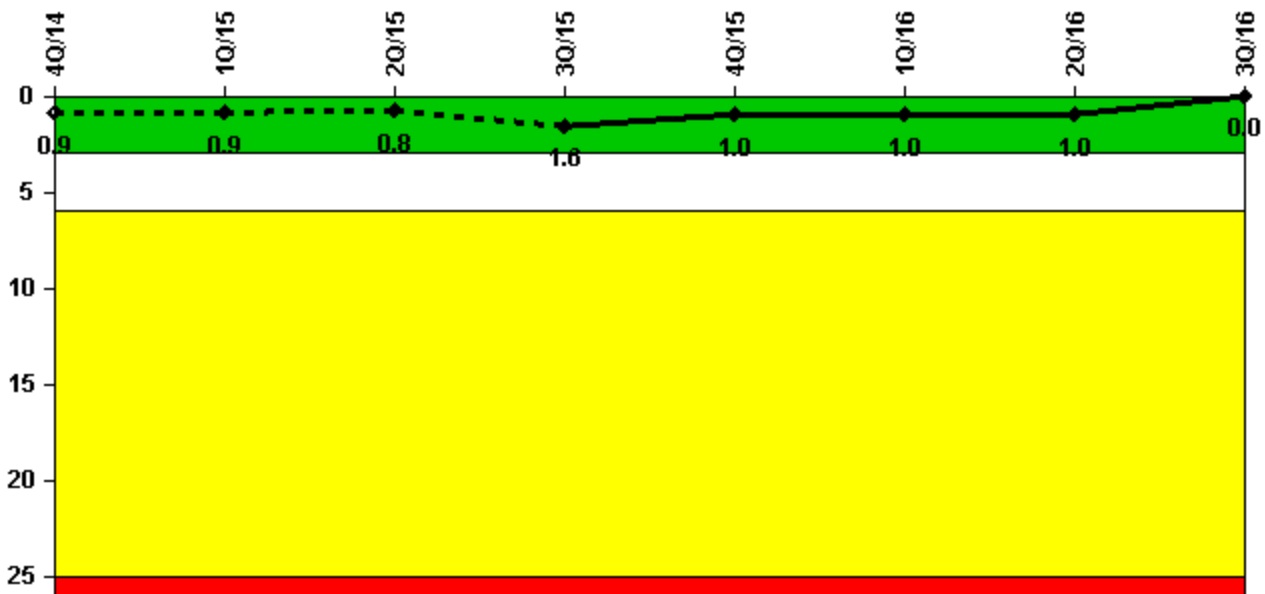
Surry 2

3Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



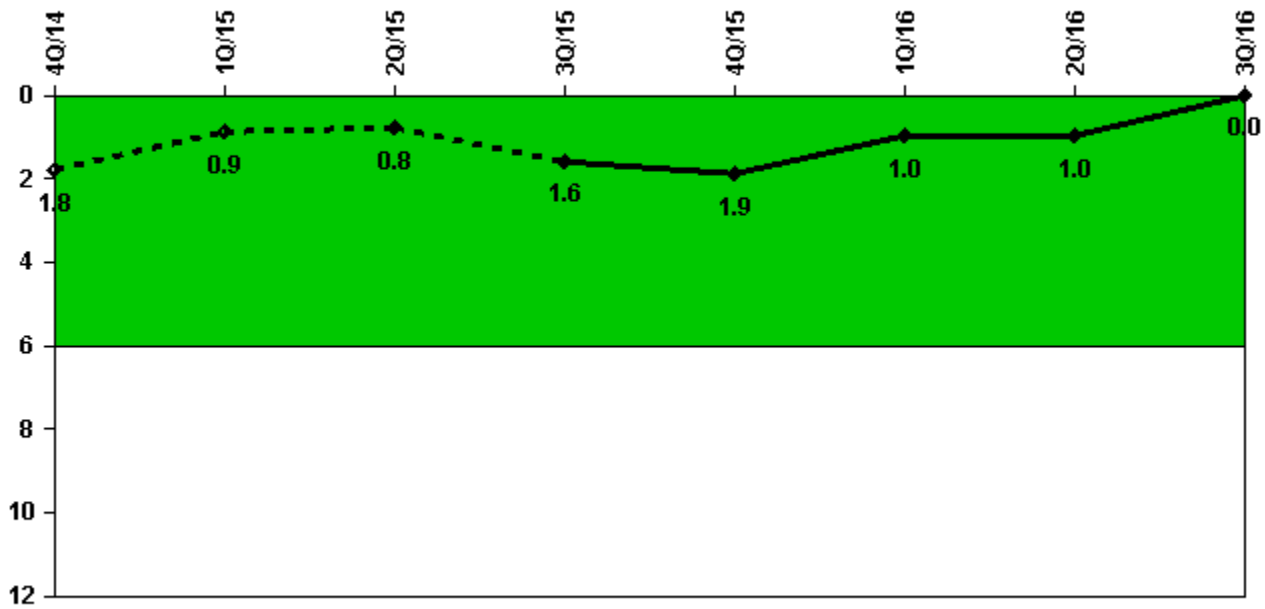
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned scrams	1.0	0	0	1.0	0	0	0	0
Critical hours	2155.2	2159.0	2184.0	1991.7	943.8	2183.0	2184.0	2208.0
Indicator value	0.9	0.9	0.8	1.6	1.0	1.0	1.0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



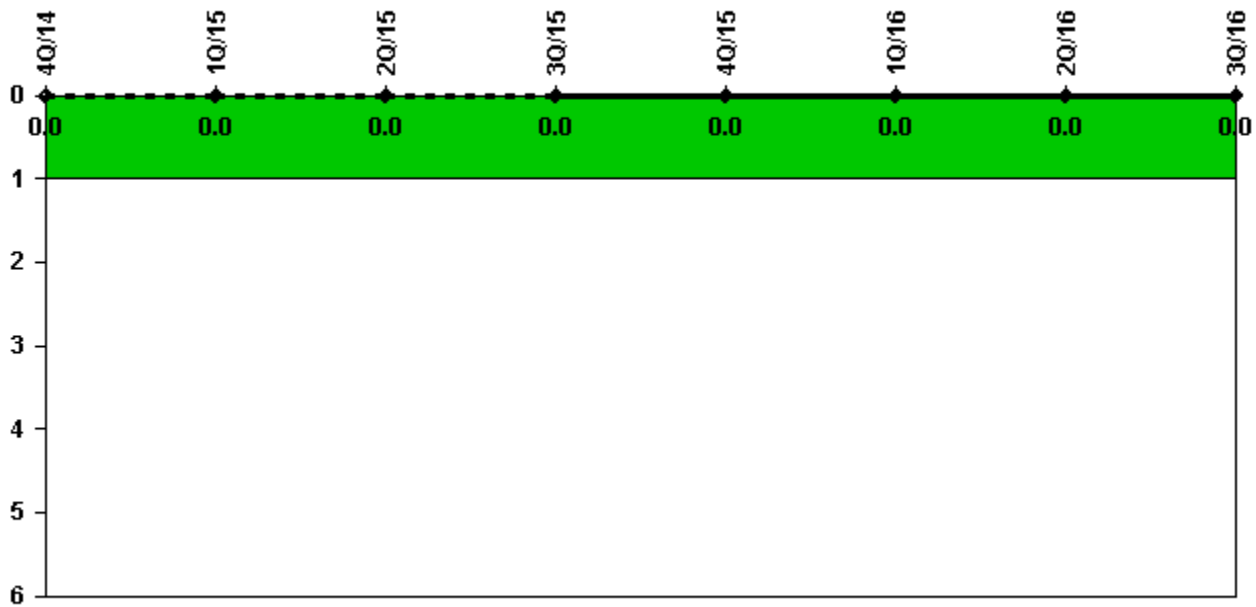
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned power changes	0	1.0	0	1.0	0	0	0	0
Critical hours	2155.2	2159.0	2184.0	1991.7	943.8	2183.0	2184.0	2208.0
Indicator value	1.8	0.9	0.8	1.6	1.9	1.0	1.0	0

Licensee Comments: none

Unplanned Scrams with Complications



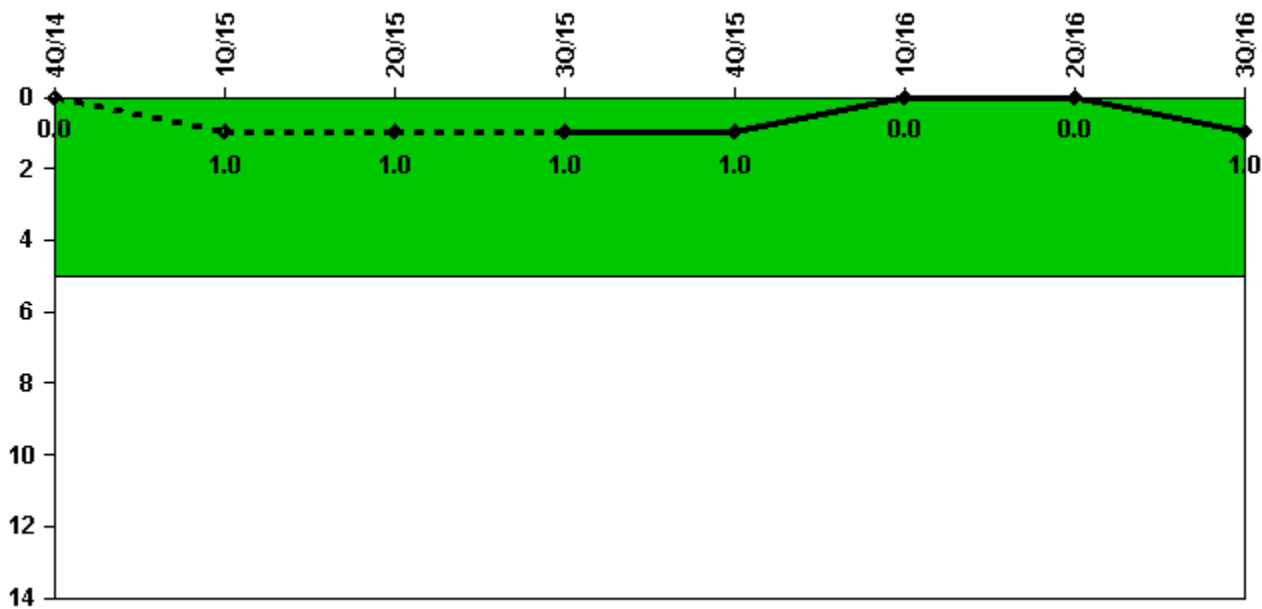
Thresholds: White > 1.0

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

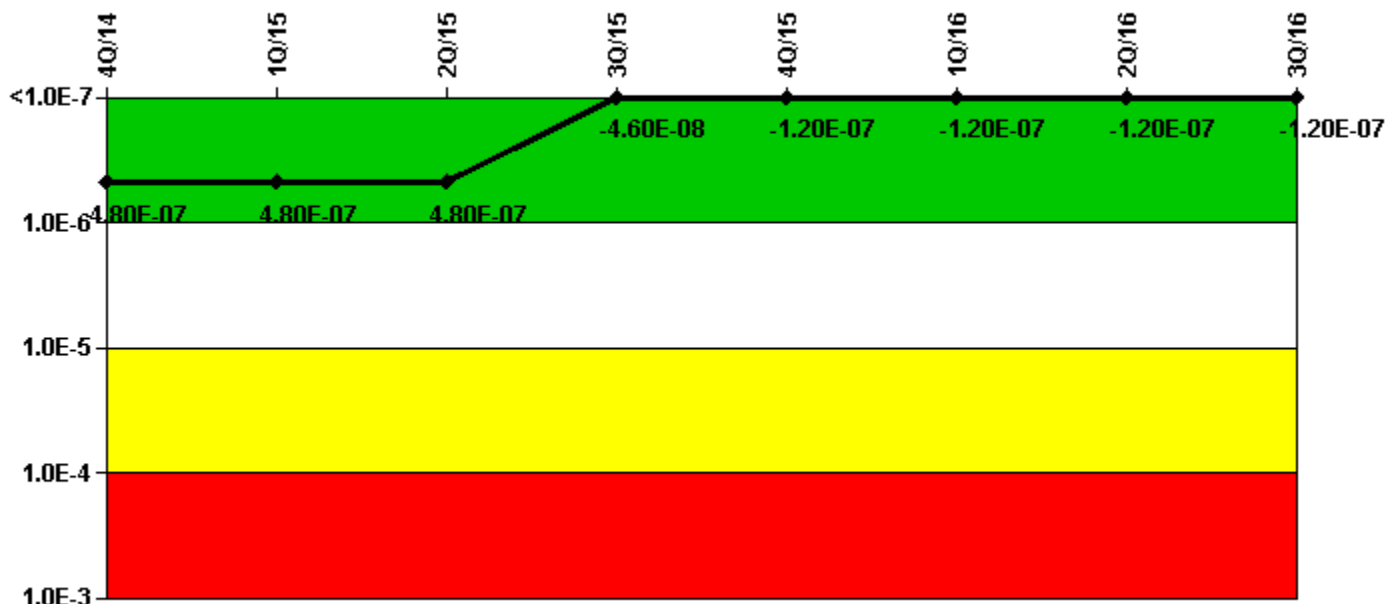
Notes

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 (Δ CDF)	1.44E-09	2.02E-10	-1.06E-09	-1.33E-08	-1.61E-08	-1.61E-08	-1.58E-08	-1.58E-08
URI (Δ CDF)	4.80E-07	4.80E-07	4.83E-07	-3.22E-08	-1.02E-07	-1.03E-07	-1.03E-07	-1.03E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.80E-07	4.80E-07	4.80E-07	-4.60E-08	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07

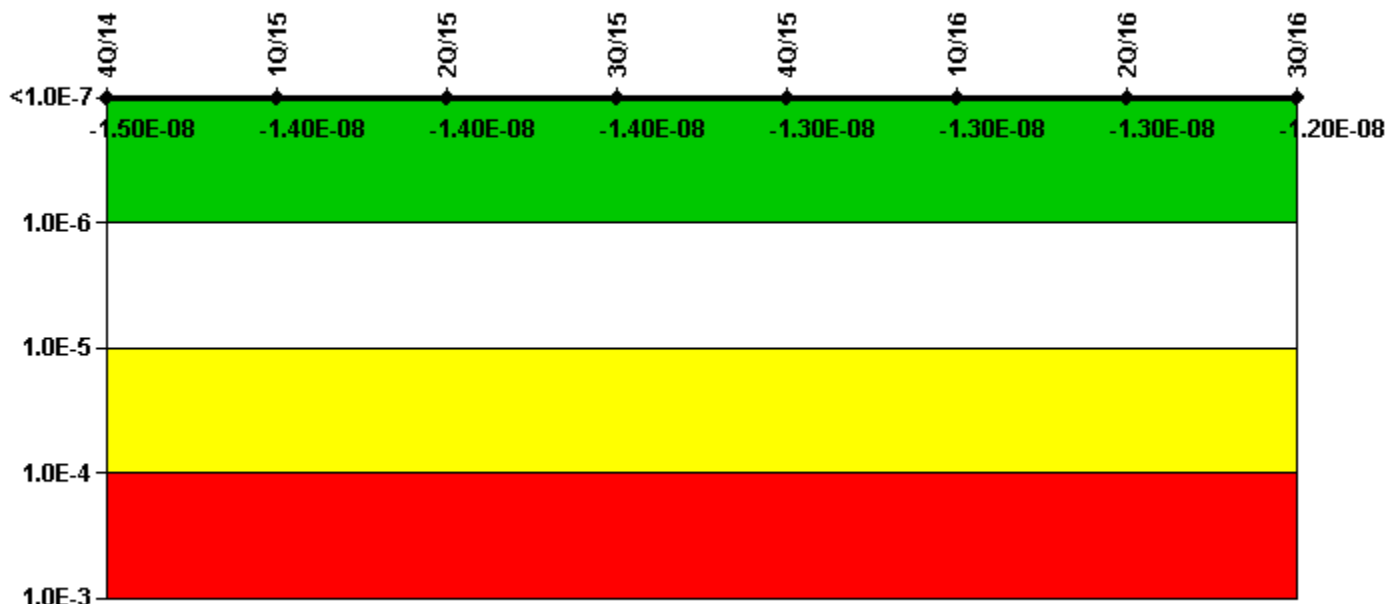
Licensee Comments:

2Q/15: Risk Cap Invoked.

1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



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

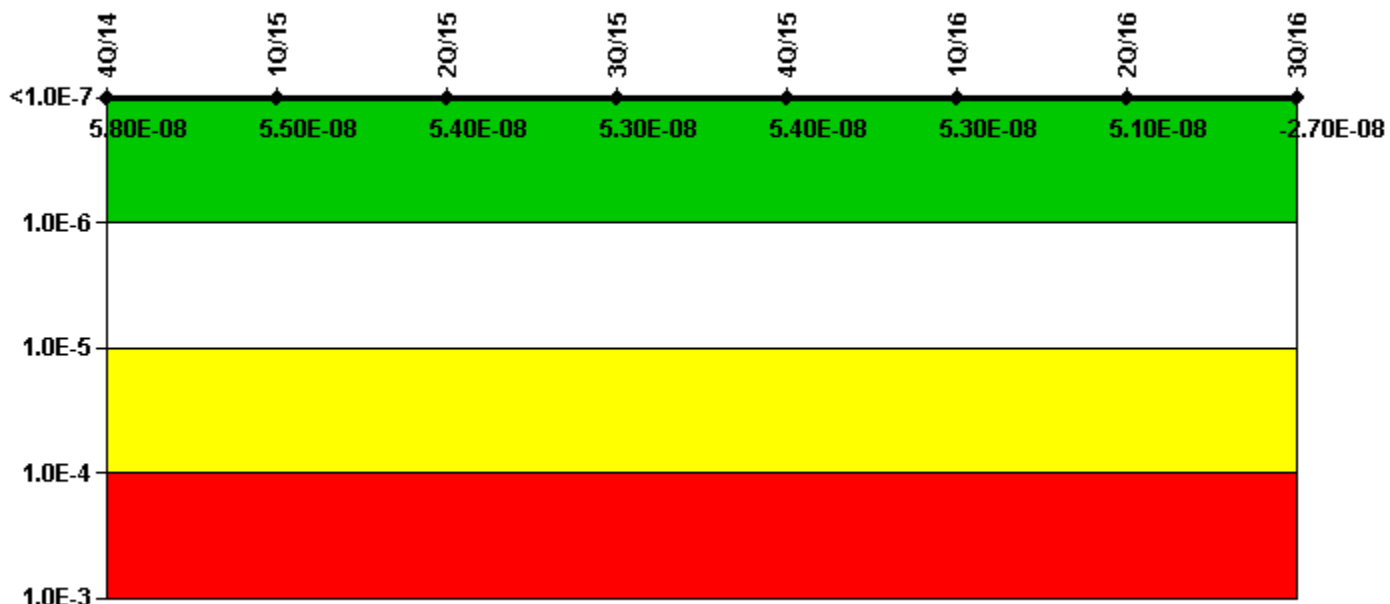
Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	-6.00E-10	-6.34E-10	-6.29E-10	-7.17E-10	1.59E-10	-3.84E-11	-5.44E-11	1.06E-10
URI (Δ CDF)	-1.40E-08	-1.36E-08	-1.36E-08	-1.36E-08	-1.34E-08	-1.33E-08	-1.31E-08	-1.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.20E-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.

Mitigating Systems Performance Index, Heat Removal System



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

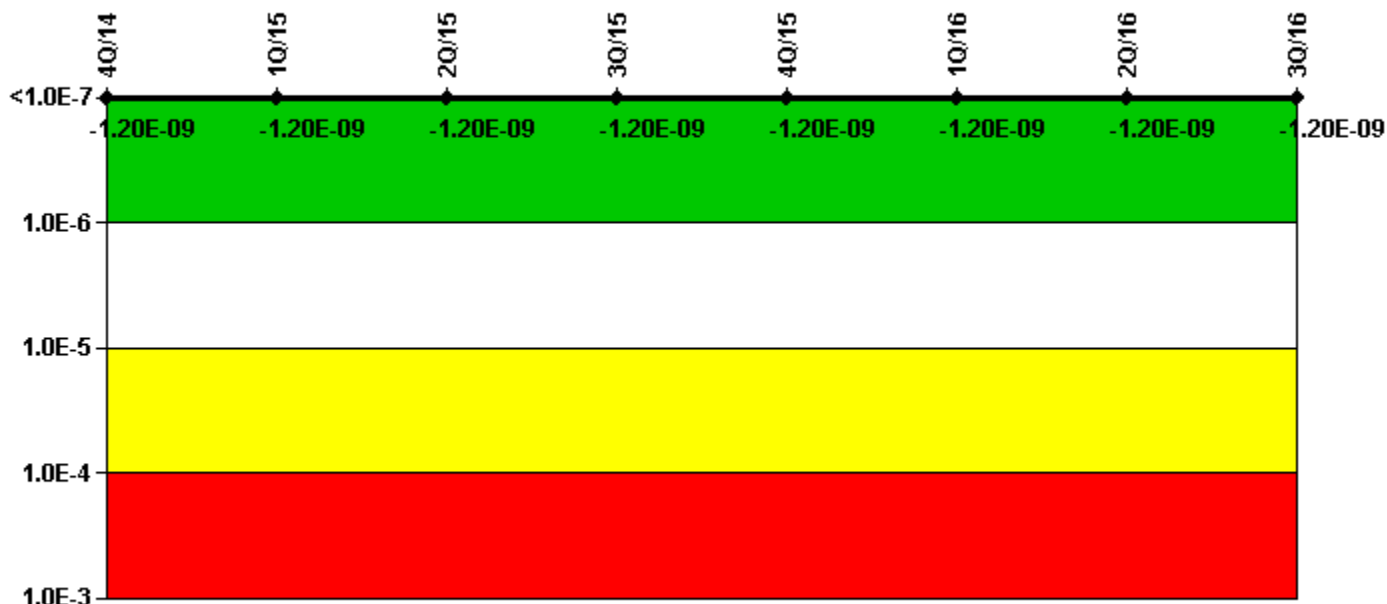
Notes

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)	-3.25E-09	-3.25E-09	-3.30E-09	-3.30E-09	-3.23E-09	-3.24E-09	-4.84E-09	-6.13E-09
URI (Δ CDF)	6.15E-08	5.86E-08	5.72E-08	5.58E-08	5.72E-08	5.59E-08	5.59E-08	-2.09E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.80E-08	5.50E-08	5.40E-08	5.30E-08	5.40E-08	5.30E-08	5.10E-08	-2.70E-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

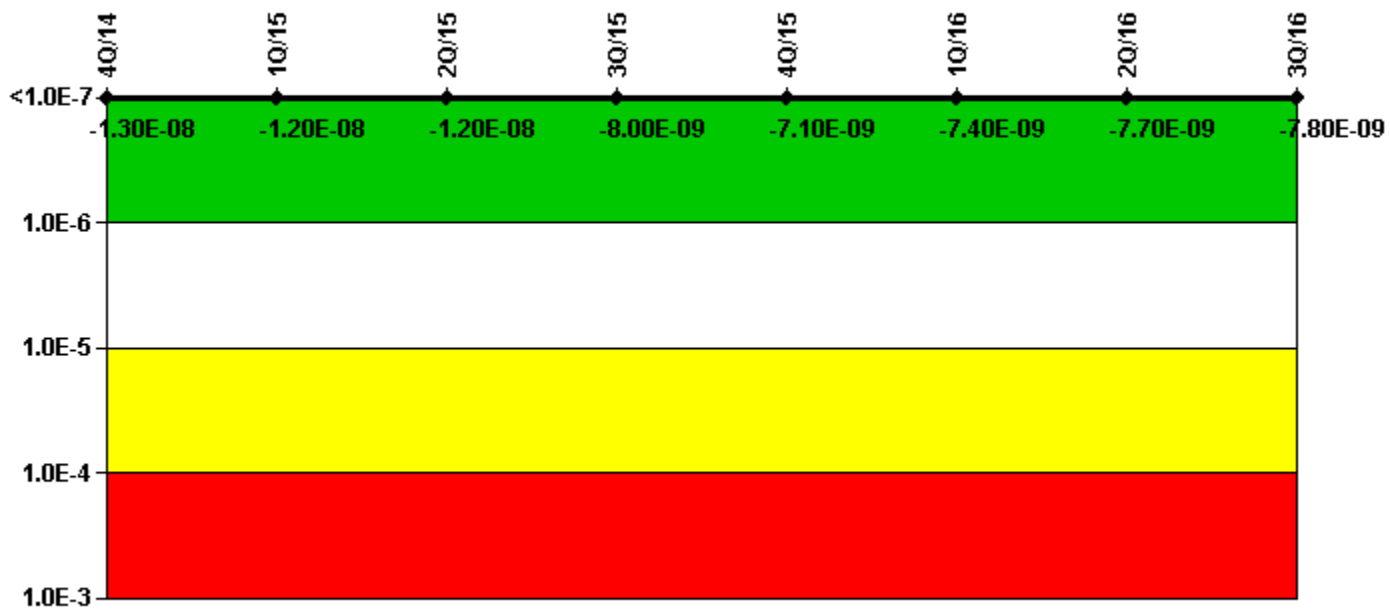
Notes

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)	-2.42E-10	-2.65E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10
URI (Δ CDF)	-9.65E-10	-9.46E-10	-9.46E-10	-9.46E-10	-9.47E-10	-9.37E-10	-9.27E-10	-9.37E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-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.

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

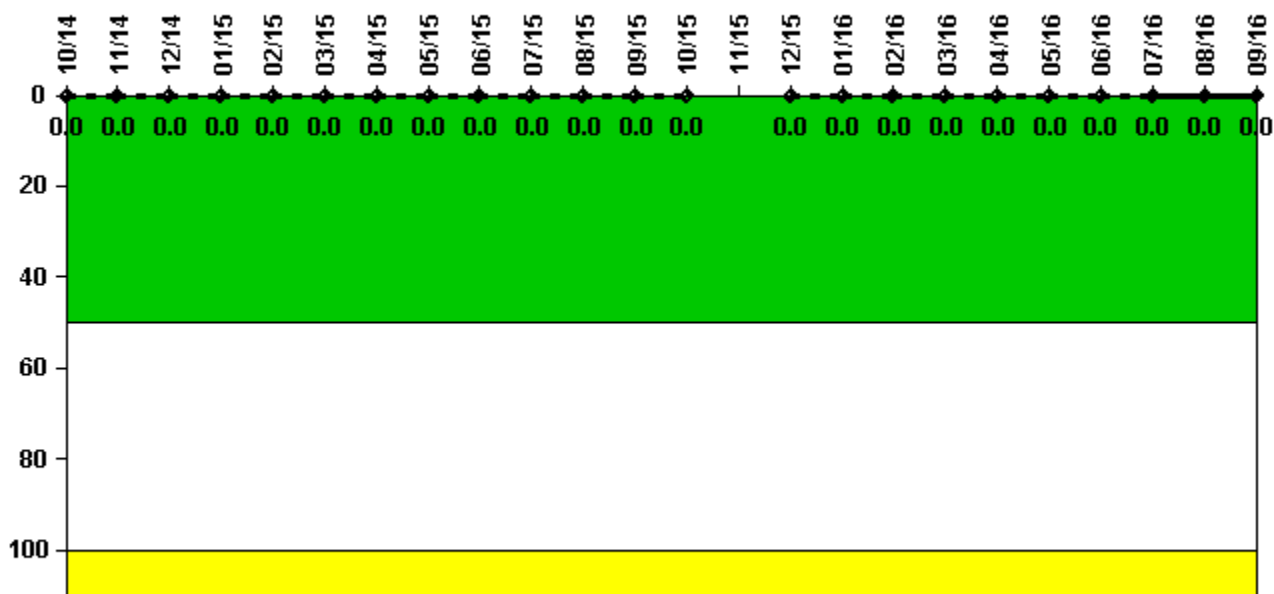
Mitigating Systems Performance Index, Cooling Water Systems	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	-1.27E-09	-1.27E-09	-1.27E-09	-1.25E-09	-1.37E-09	-1.50E-09	-1.50E-09	-1.46E-09
URI (Δ CDF)	-1.14E-08	-1.09E-08	-1.05E-08	-6.73E-09	-5.70E-09	-5.95E-09	-6.25E-09	-6.29E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-08	-1.20E-08	-1.20E-08	-8.00E-09	-7.10E-09	-7.40E-09	-7.70E-09	-7.80E-09

Licensee Comments:

4Q/14: 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.

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



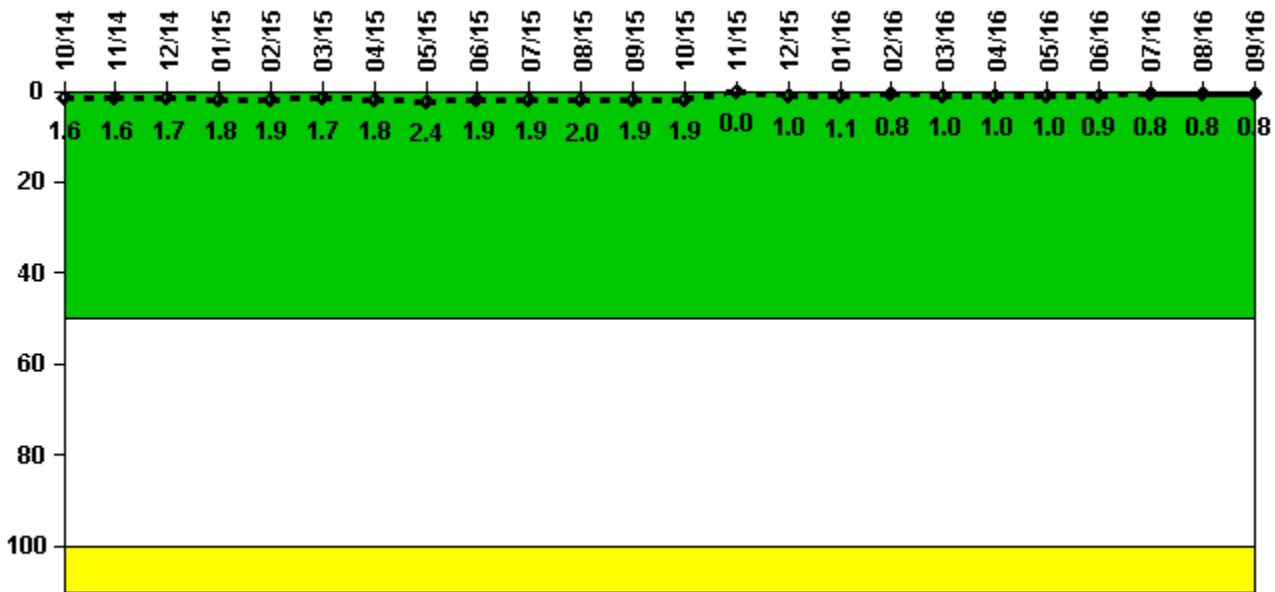
Thresholds: White > 50.0 Yellow > 100.0

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	0.000079	0.000085	0.000109	0.000095	0.000138	0.000113	0.000103	0.000115	0.000126	0.000116	0.000064	0.000130
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
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	0.000182	N/A	0.000187	0.000063	0.000186	0.000231	0.000219	0.000267	0.000345	0.000363	0.000241	0.000314
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	N/A	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



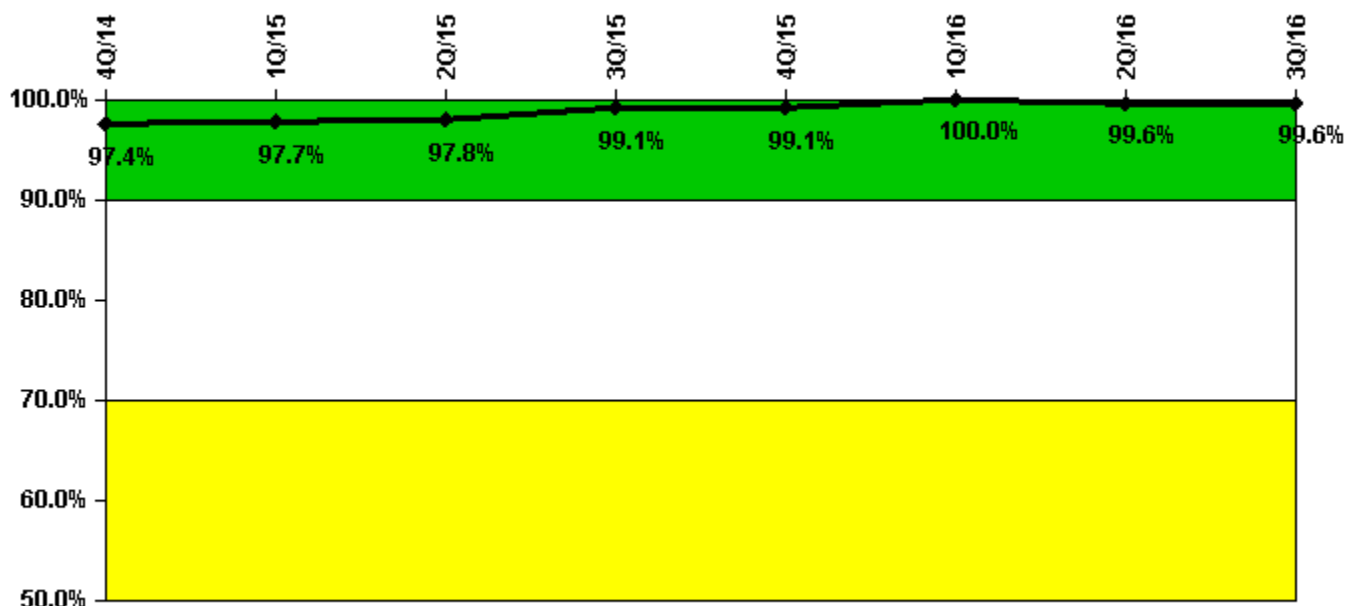
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum leakage	0.160	0.160	0.170	0.180	0.190	0.170	0.180	0.240	0.190	0.190	0.200	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	1.6	1.6	1.7	1.8	1.9	1.7	1.8	2.4	1.9	1.9	2.0	1.9
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	0.190	0	0.100	0.110	0.080	0.100	0.100	0.100	0.090	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	1.9	0	1.0	1.1	0.8	1.0	1.0	1.0	0.9	0.8	0.8	0.8

Licensee Comments: none

Drill/Exercise Performance



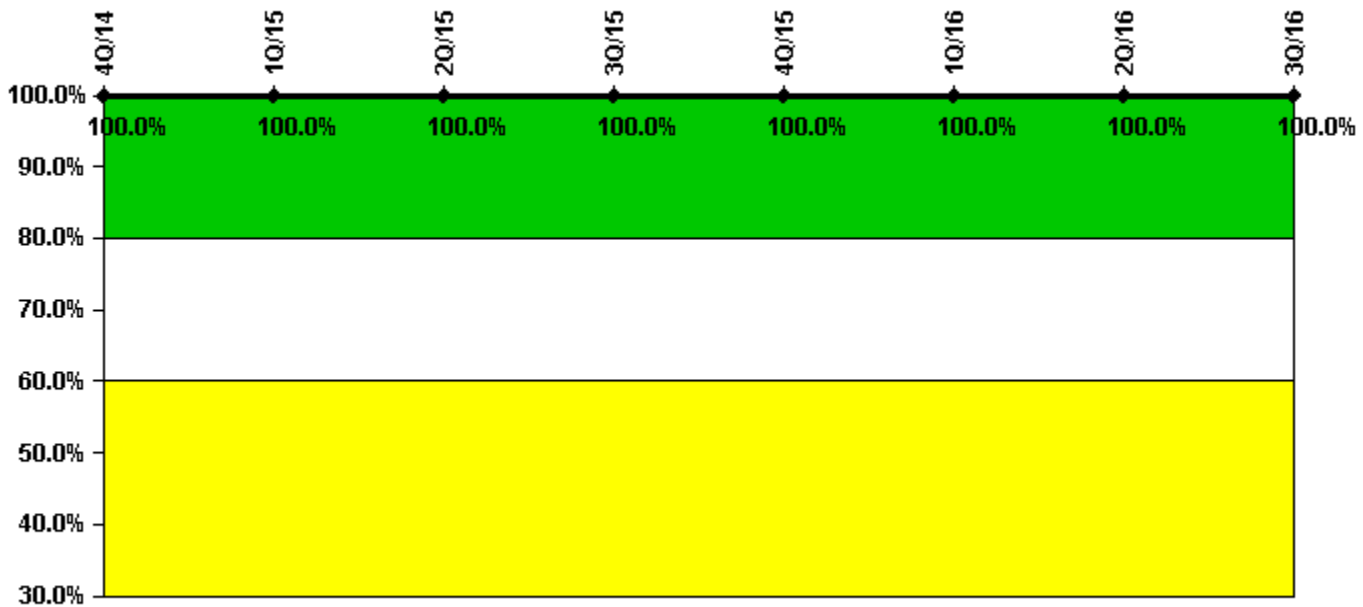
Thresholds: White < 90.0% Yellow < 70.0%

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%

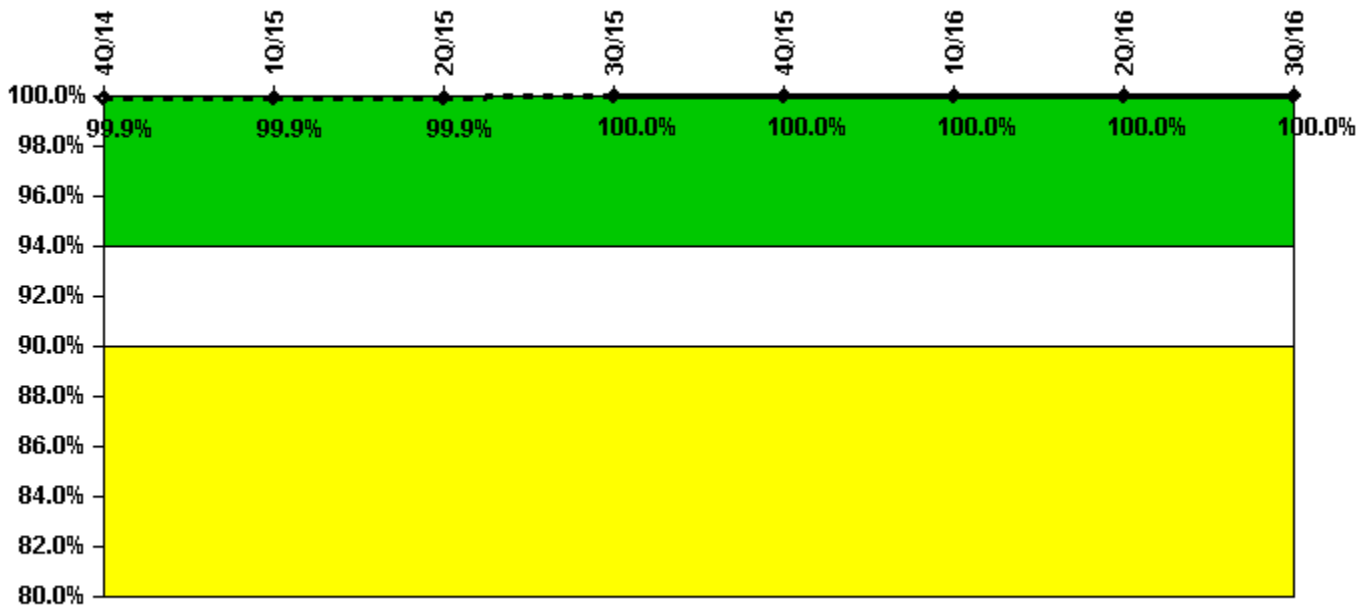
Notes

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



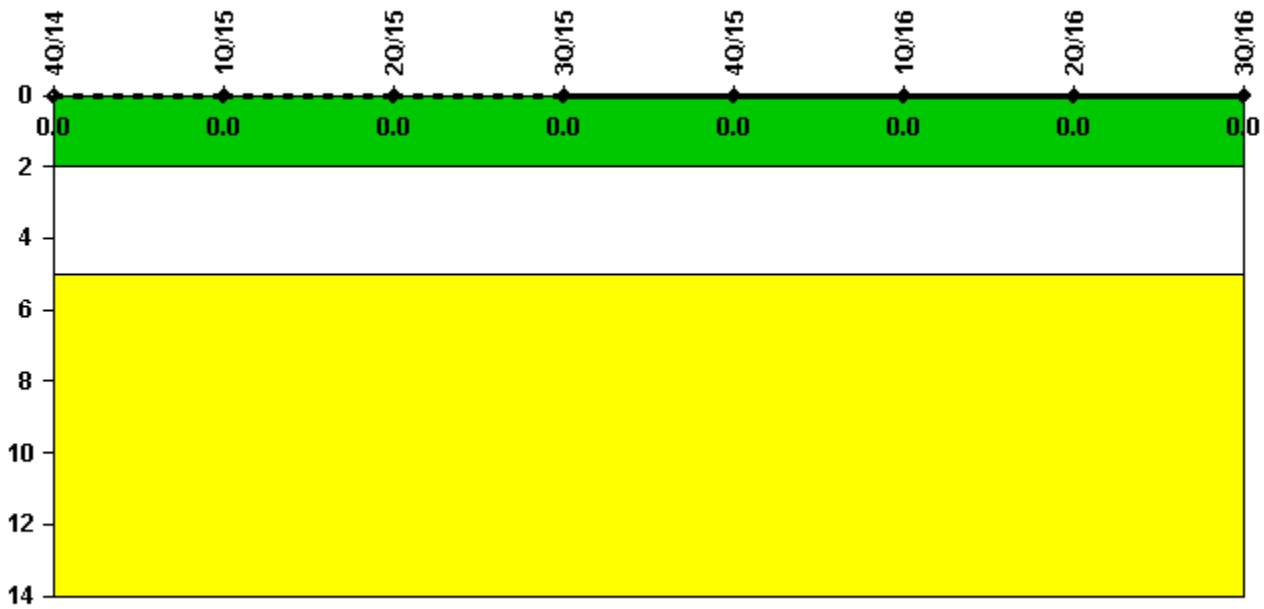
Thresholds: White < 94.0% Yellow < 90.0%

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



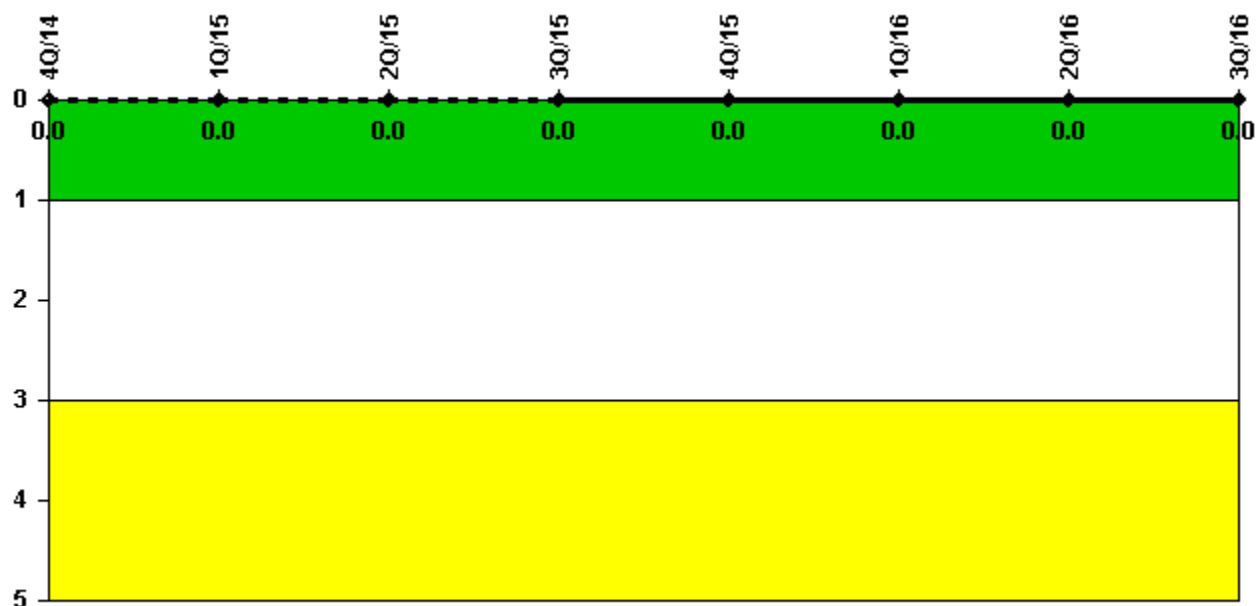
Thresholds: White > 2.0 Yellow > 5.0

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

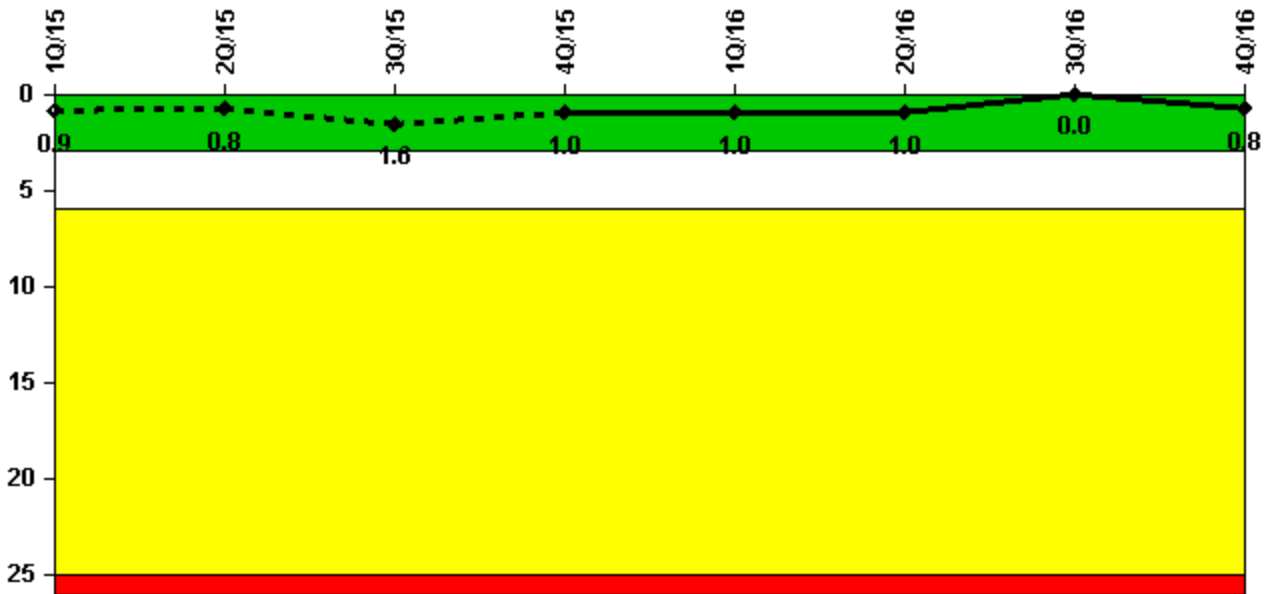
Surry 2

4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



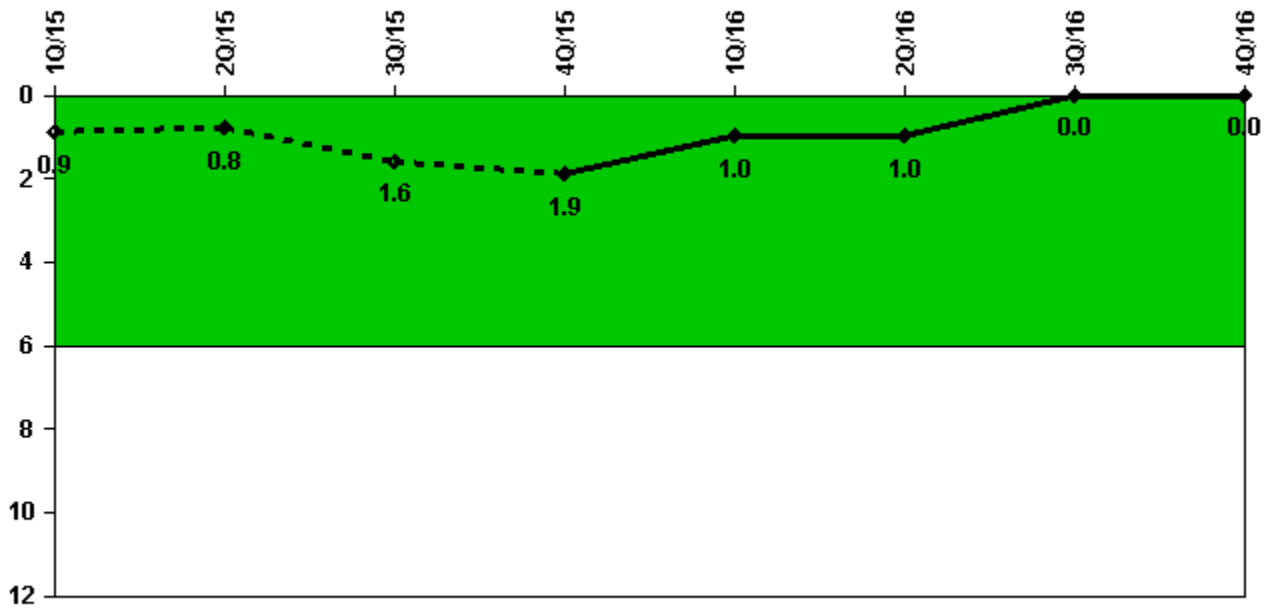
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned scrams	0	0	1.0	0	0	0	0	1.0
Critical hours	2159.0	2184.0	1991.7	943.8	2183.0	2184.0	2208.0	2118.7
Indicator value	0.9	0.8	1.6	1.0	1.0	1.0	0	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



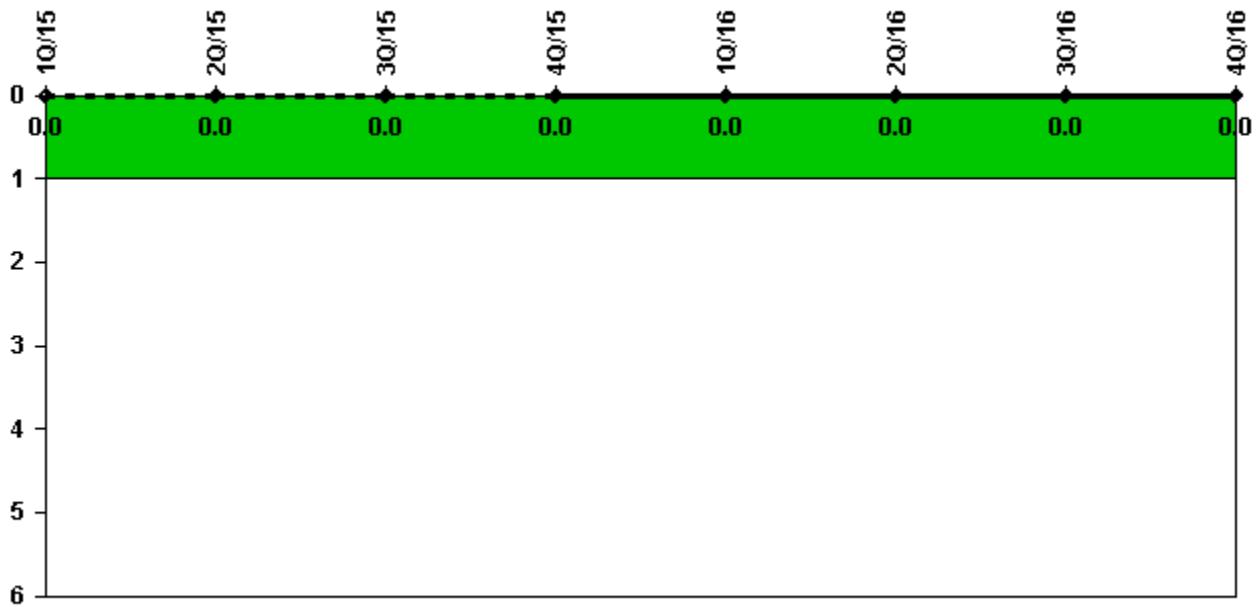
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned power changes	1.0	0	1.0	0	0	0	0	0
Critical hours	2159.0	2184.0	1991.7	943.8	2183.0	2184.0	2208.0	2118.7
Indicator value	0.9	0.8	1.6	1.9	1.0	1.0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



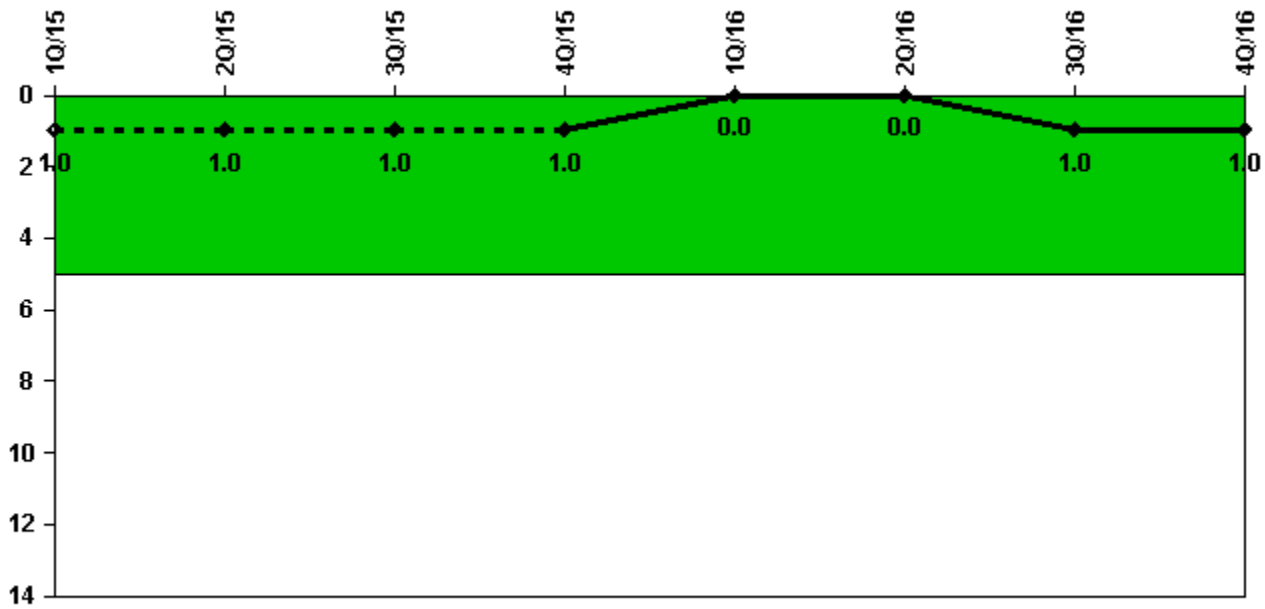
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	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

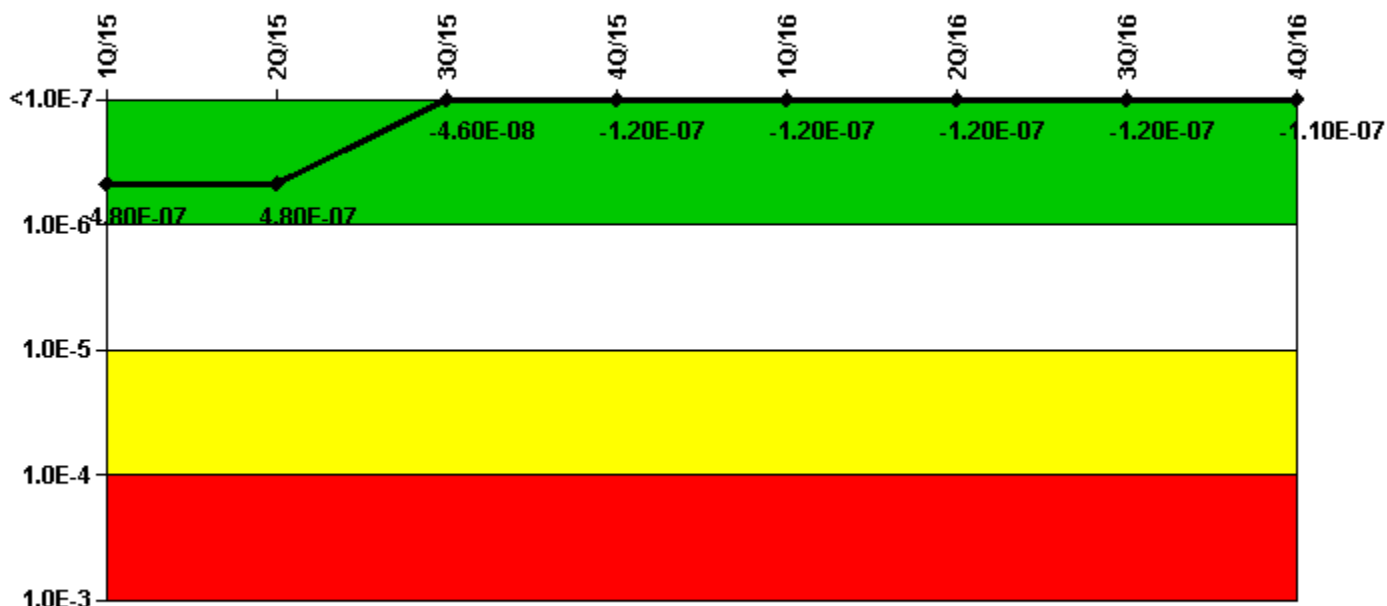
Notes

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

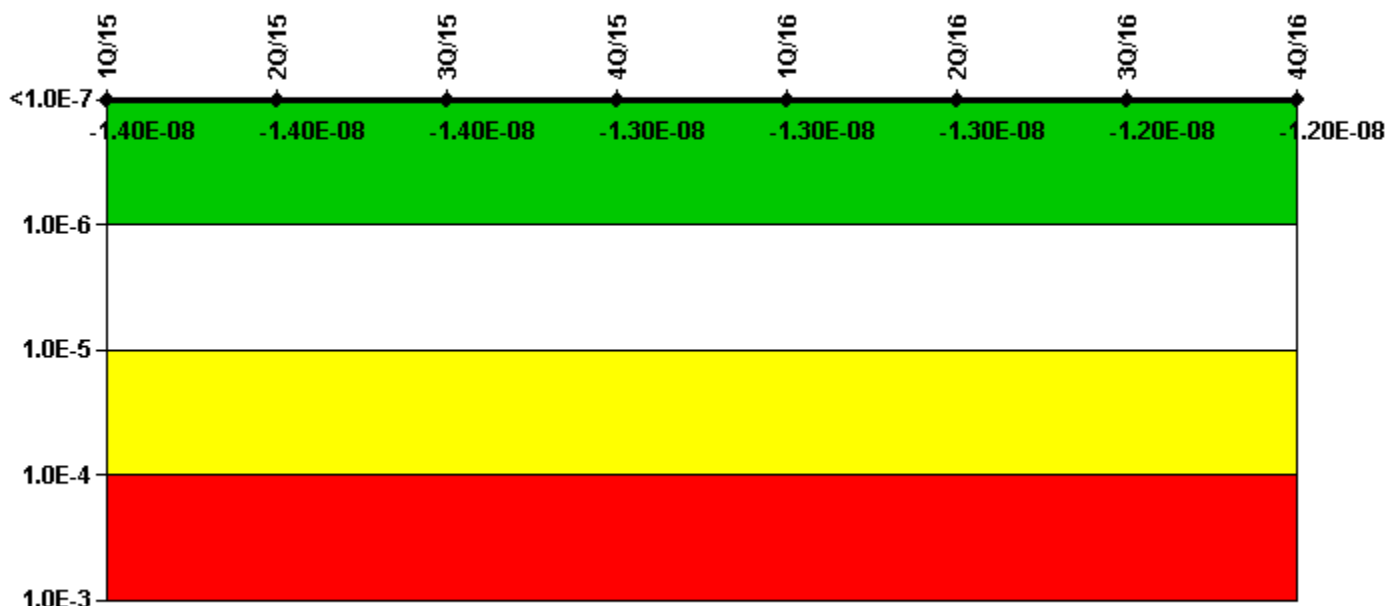
Mitigating Systems Performance Index, Emergency AC Power System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (ΔCDF)	2.02E-10	-1.06E-09	-1.33E-08	-1.61E-08	-1.61E-08	-1.58E-08	-1.58E-08	-1.25E-08
URI (ΔCDF)	4.80E-07	4.83E-07	-3.22E-08	-1.02E-07	-1.03E-07	-1.03E-07	-1.03E-07	-1.02E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.80E-07	4.80E-07	-4.60E-08	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.10E-07

Licensee Comments:

2Q/15: Risk Cap Invoked.

1Q/15: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



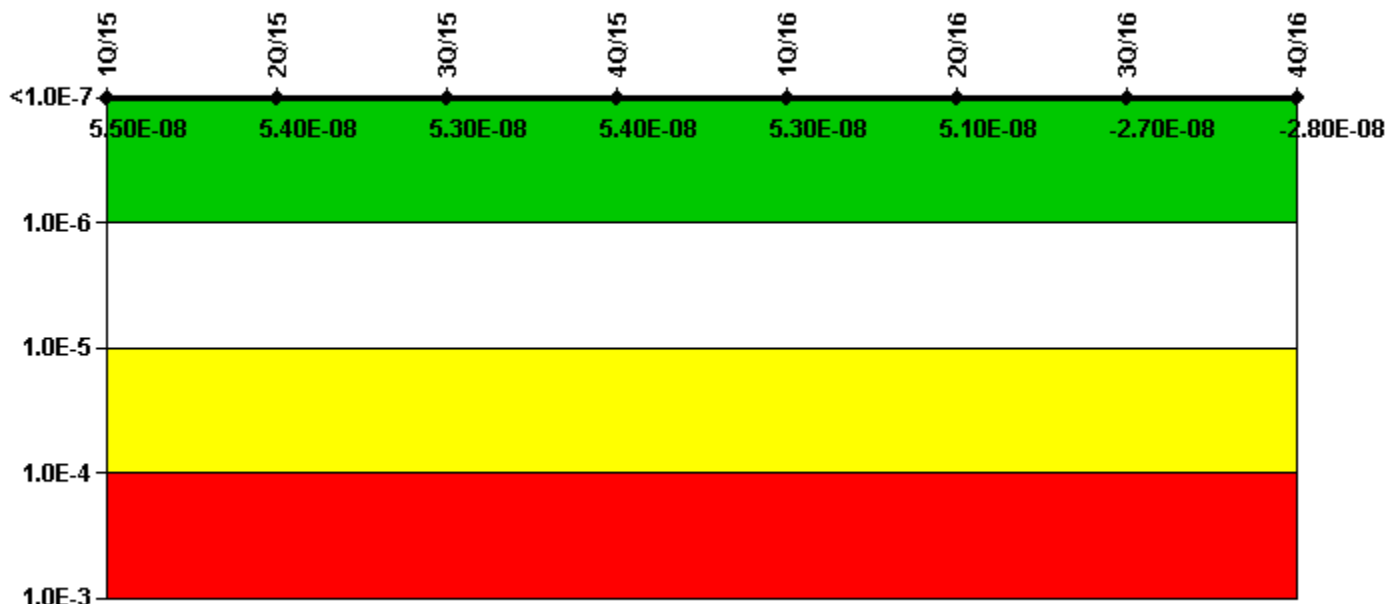
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-6.34E-10	-6.29E-10	-7.17E-10	1.59E-10	-3.84E-11	-5.44E-11	1.06E-10	1.10E-10
URI (Δ CDF)	-1.36E-08	-1.36E-08	-1.36E-08	-1.34E-08	-1.33E-08	-1.31E-08	-1.26E-08	-1.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	-1.40E-08	-1.40E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.20E-08	-1.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



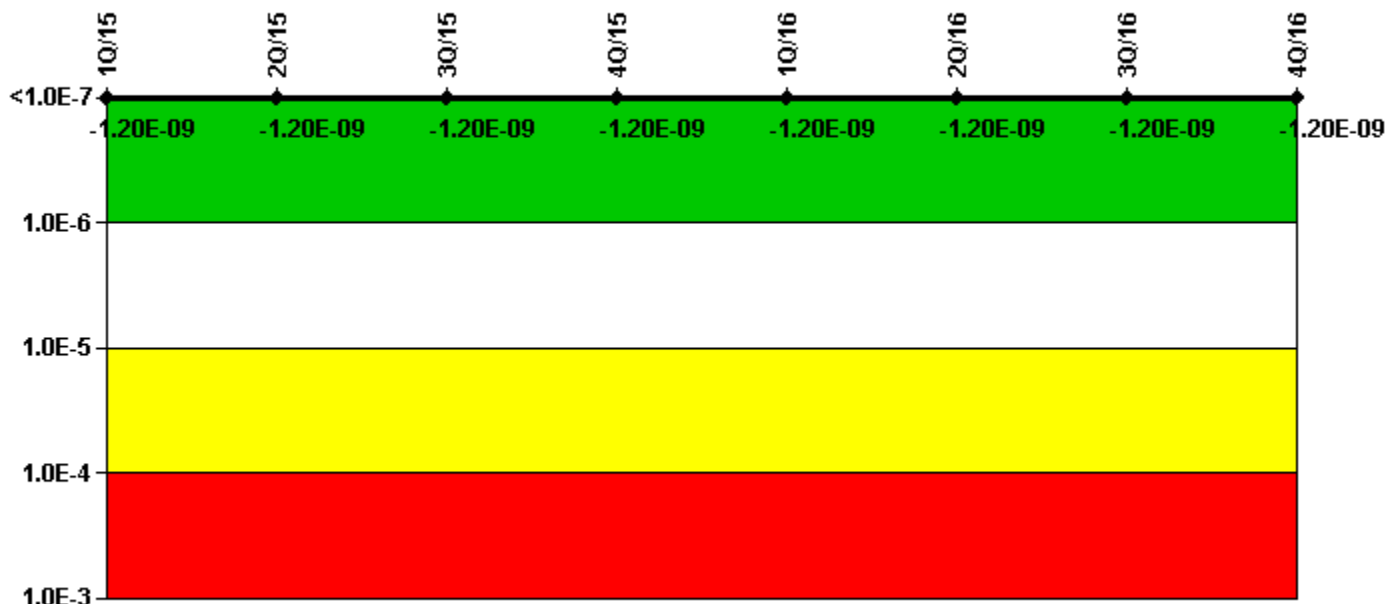
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-3.25E-09	-3.30E-09	-3.30E-09	-3.23E-09	-3.24E-09	-4.84E-09	-6.13E-09	-6.13E-09
URI (Δ CDF)	5.86E-08	5.72E-08	5.58E-08	5.72E-08	5.59E-08	5.59E-08	-2.09E-08	-2.18E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.50E-08	5.40E-08	5.30E-08	5.40E-08	5.30E-08	5.10E-08	-2.70E-08	-2.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



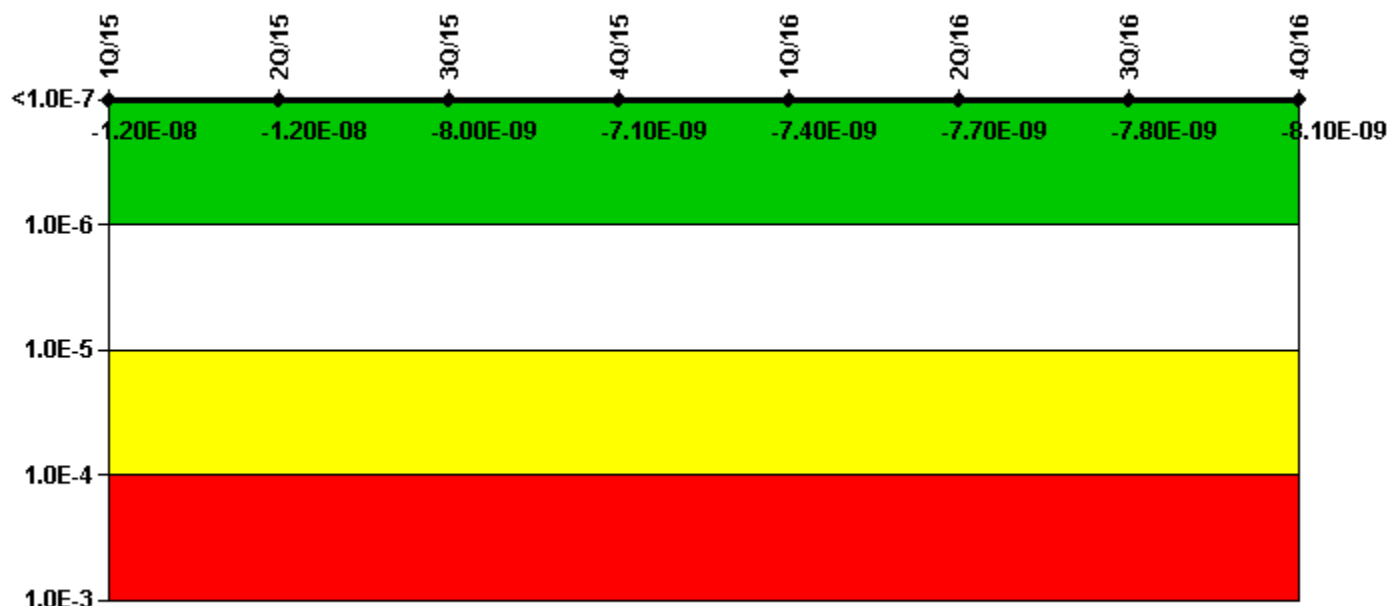
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-2.65E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10
URI (Δ CDF)	-9.46E-10	-9.46E-10	-9.46E-10	-9.47E-10	-9.37E-10	-9.27E-10	-9.37E-10	-9.08E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



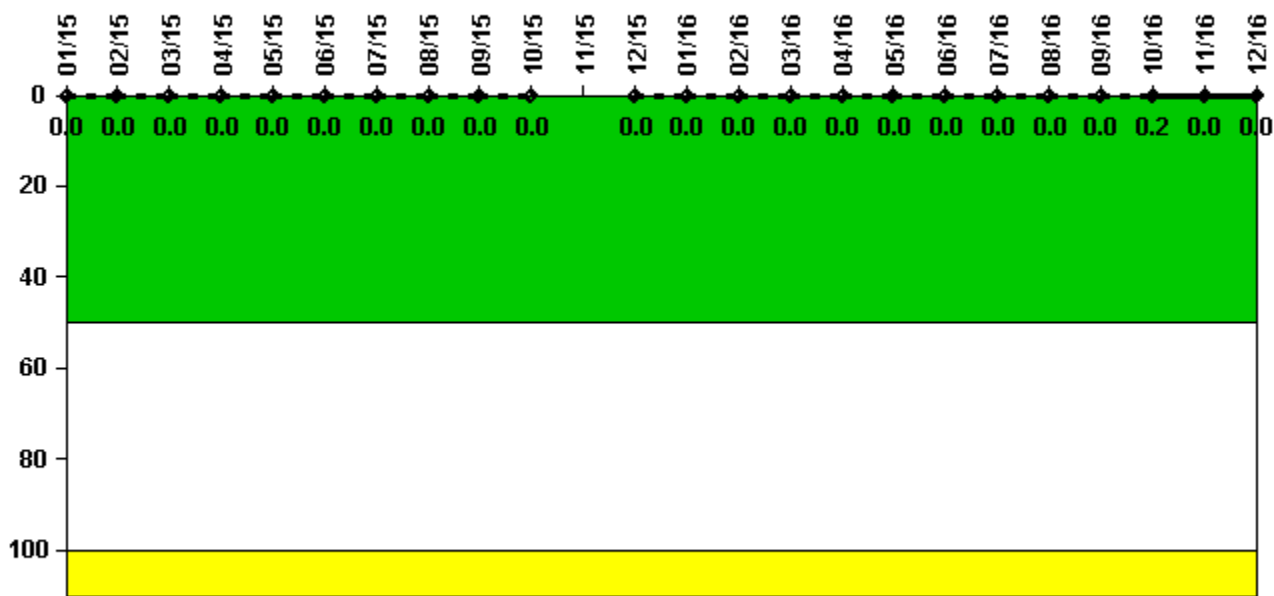
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-1.27E-09	-1.27E-09	-1.25E-09	-1.37E-09	-1.50E-09	-1.50E-09	-1.46E-09	-1.46E-09
URI (Δ CDF)	-1.09E-08	-1.05E-08	-6.73E-09	-5.70E-09	-5.95E-09	-6.25E-09	-6.29E-09	-6.63E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-08	-1.20E-08	-8.00E-09	-7.10E-09	-7.40E-09	-7.70E-09	-7.80E-09	-8.10E-09

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

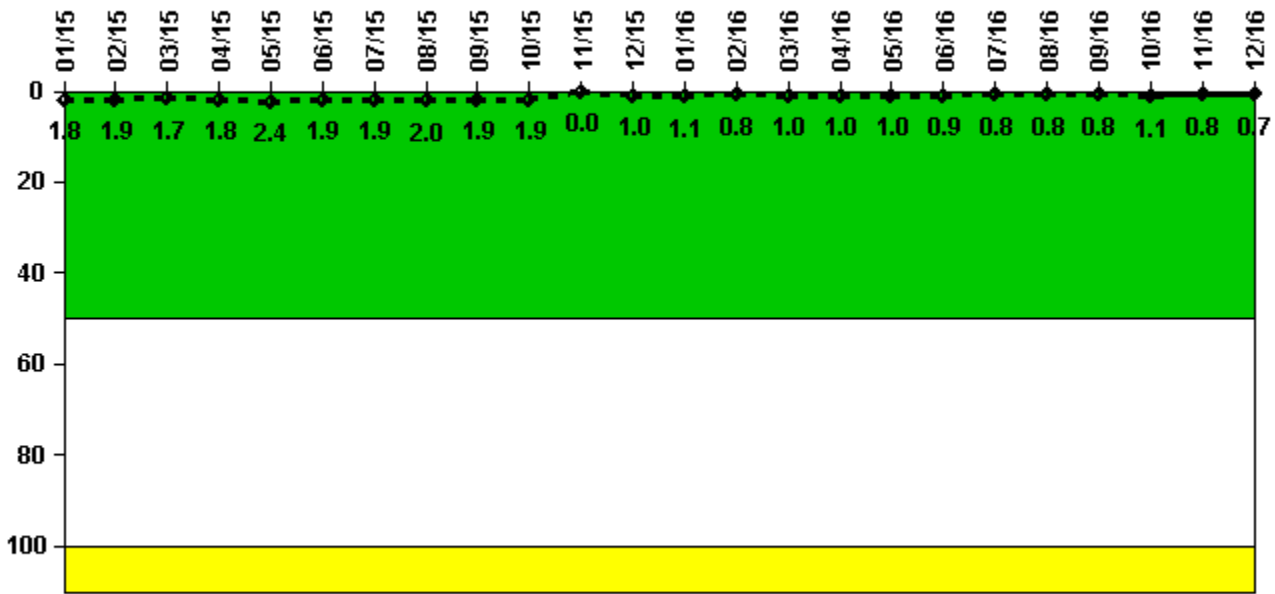
Notes

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	0.000095	0.000138	0.000113	0.000103	0.000115	0.000126	0.000116	0.000064	0.000130	0.000182	N/A	0.000187
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	N/A	0

Reactor Coolant System Activity	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum activity	0.000063	0.000186	0.000231	0.000219	0.000267	0.000345	0.000363	0.000241	0.000314	0.001830	0.000271	0.000243
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0.2	0	0

Licensee Comments: none

Reactor Coolant System Leakage



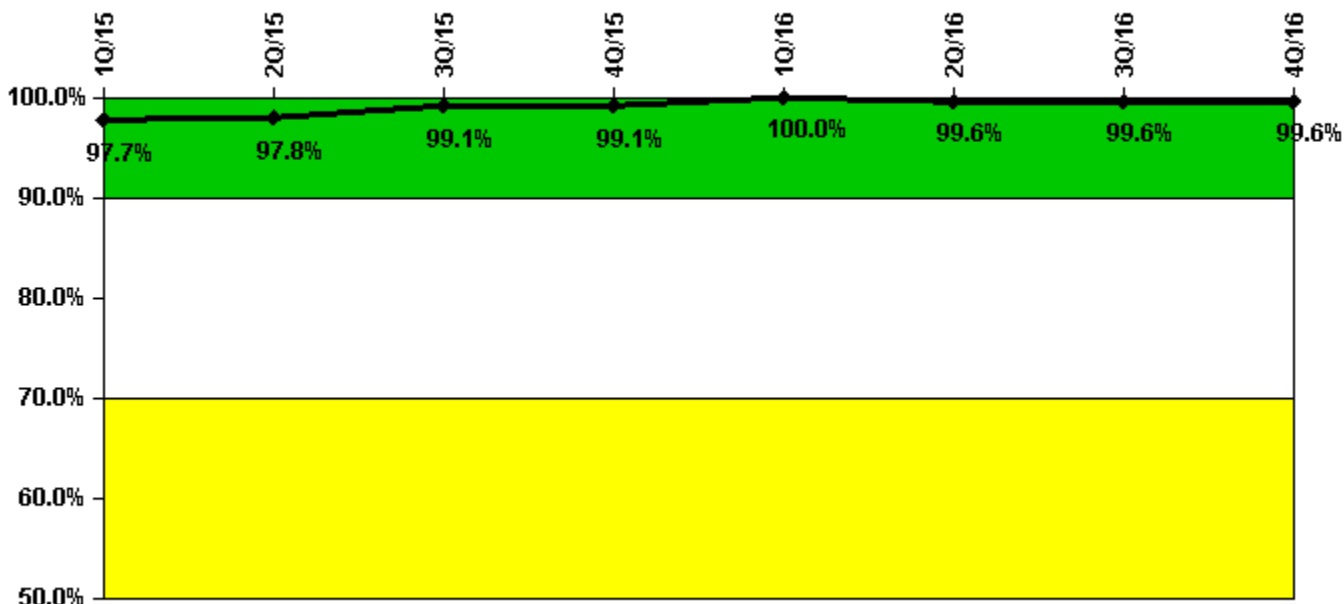
Thresholds: White > 50.0 Yellow > 100.0

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	0.180	0.190	0.170	0.180	0.240	0.190	0.190	0.200	0.190	0.190	0	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	1.8	1.9	1.7	1.8	2.4	1.9	1.9	2.0	1.9	1.9	0	1.0
Reactor Coolant System Leakage	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum leakage	0.110	0.080	0.100	0.100	0.100	0.090	0.080	0.080	0.080	0.110	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	1.1	0.8	1.0	1.0	1.0	0.9	0.8	0.8	0.8	1.1	0.8	0.7

Licensee Comments: none

Drill/Exercise Performance



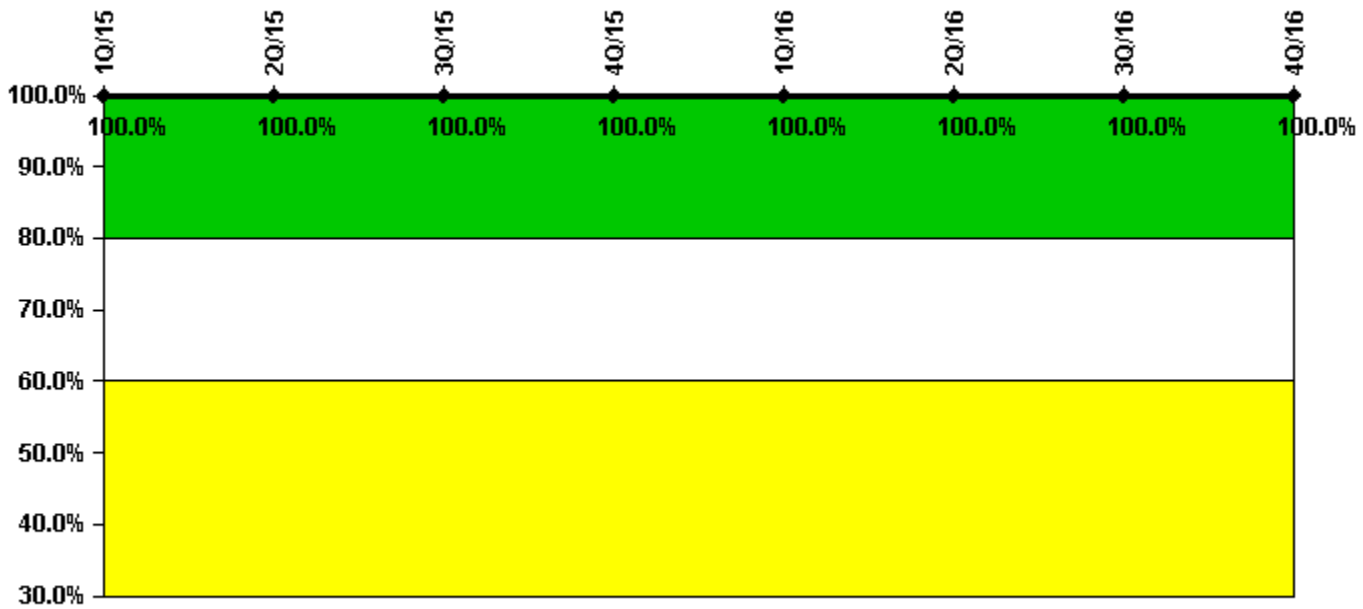
Thresholds: White < 90.0% Yellow < 70.0%

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%

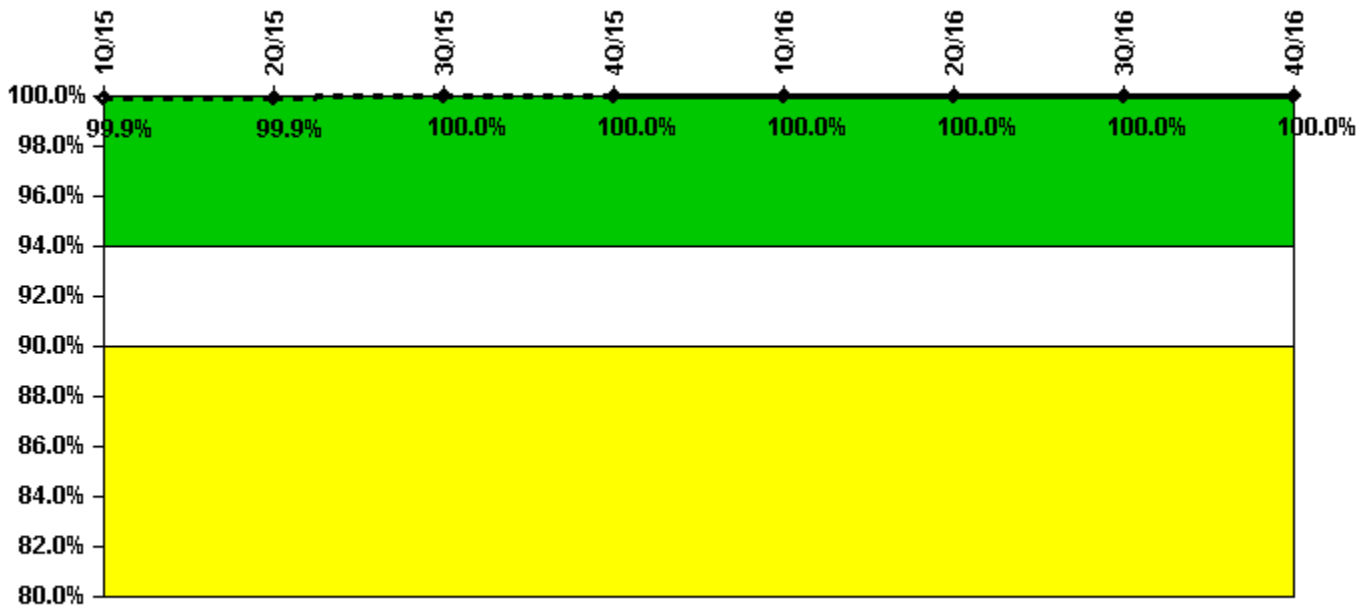
Notes

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



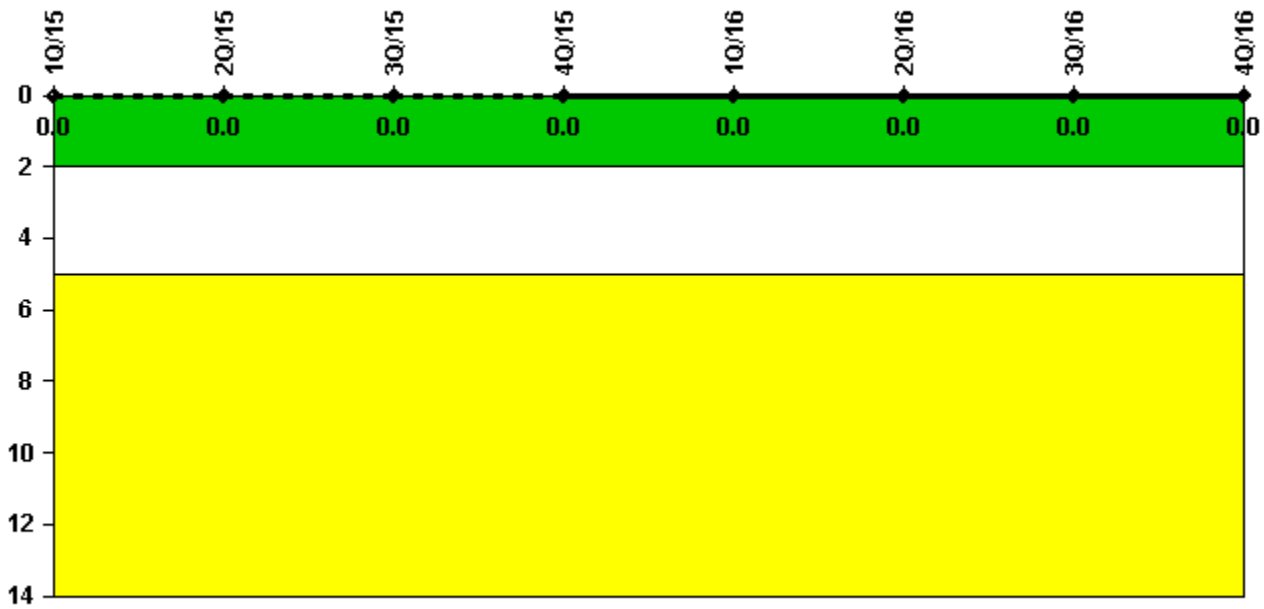
Thresholds: White < 94.0% Yellow < 90.0%

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



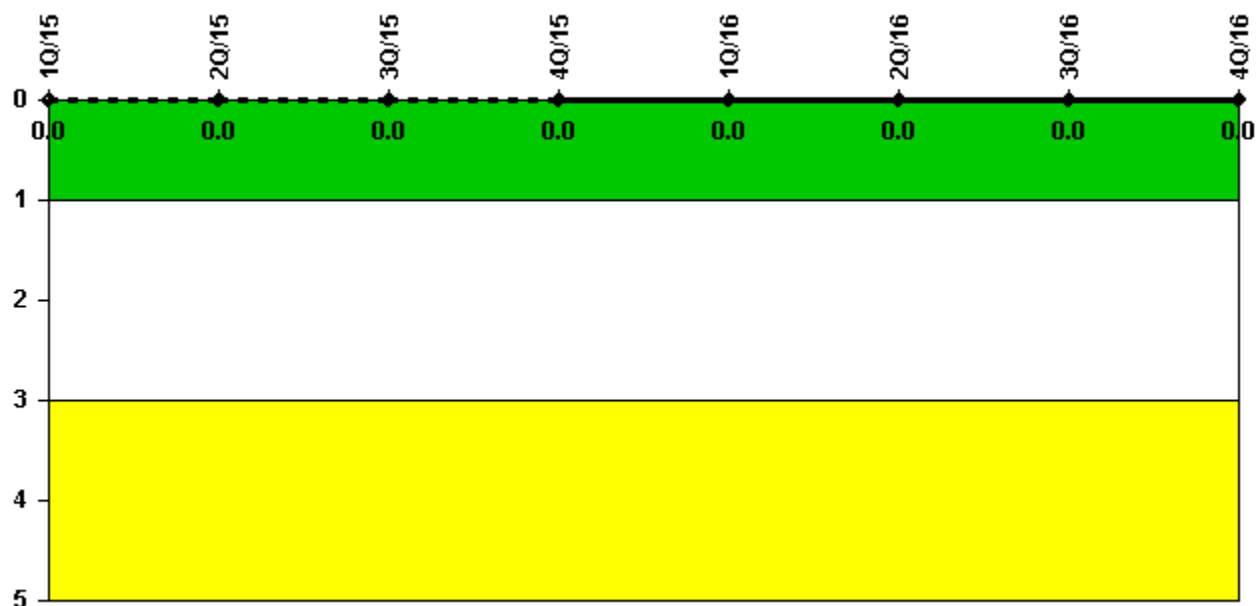
Thresholds: White > 2.0 Yellow > 5.0

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 2 > Quarterly Performance Indicators

Surry 2 – Quarterly Performance Indicators

1Q/2017 Performance Indicators

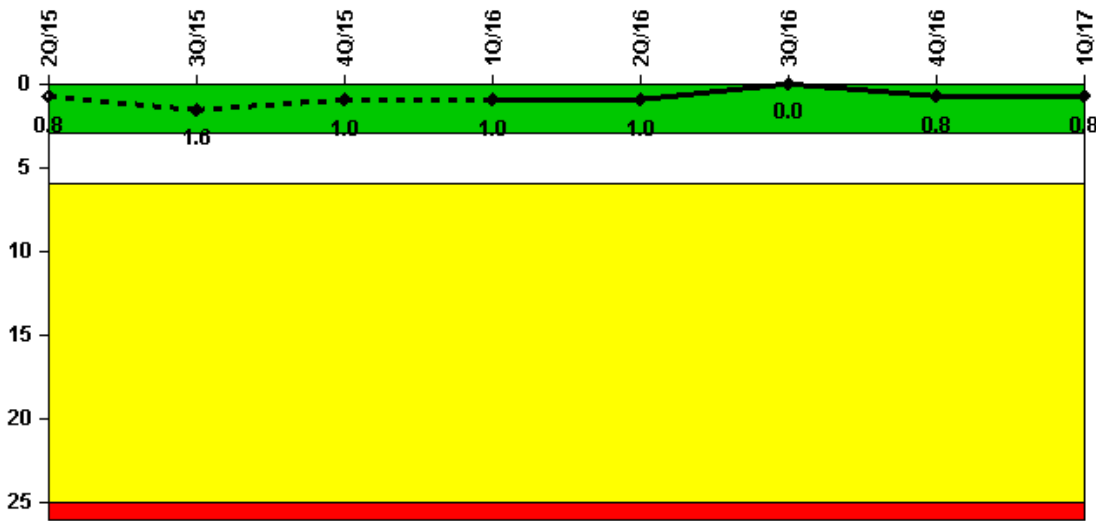
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

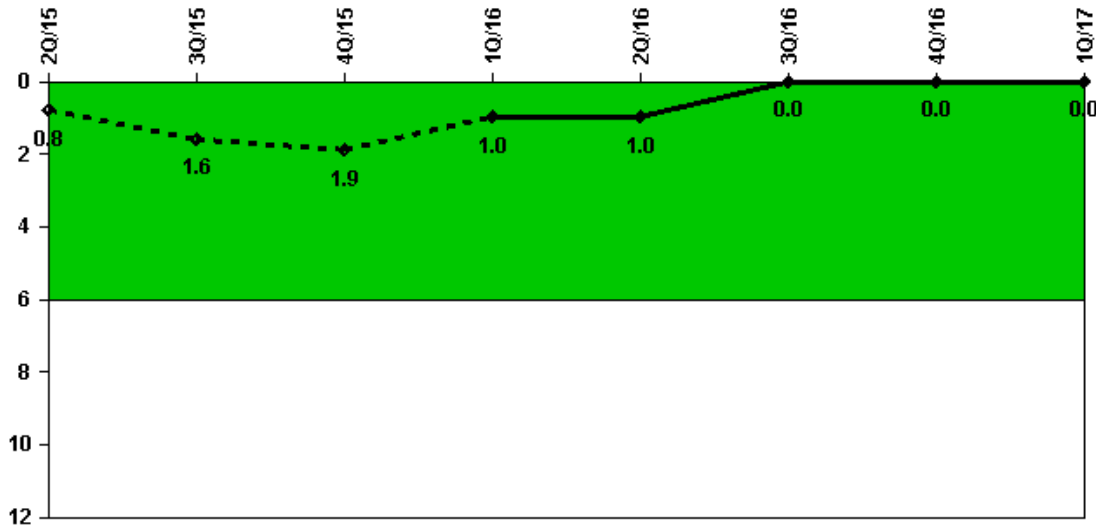
Unplanned Scrams per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned scrams	0	1.0	0	0	0	0	1.0	0
Critical hours	2184.0	1991.7	943.8	2183.0	2184.0	2208.0	2118.7	2159.0

Indicator value	0.8	1.6	1.0	1.0	1.0	0	0.8	0.8
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TOP

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

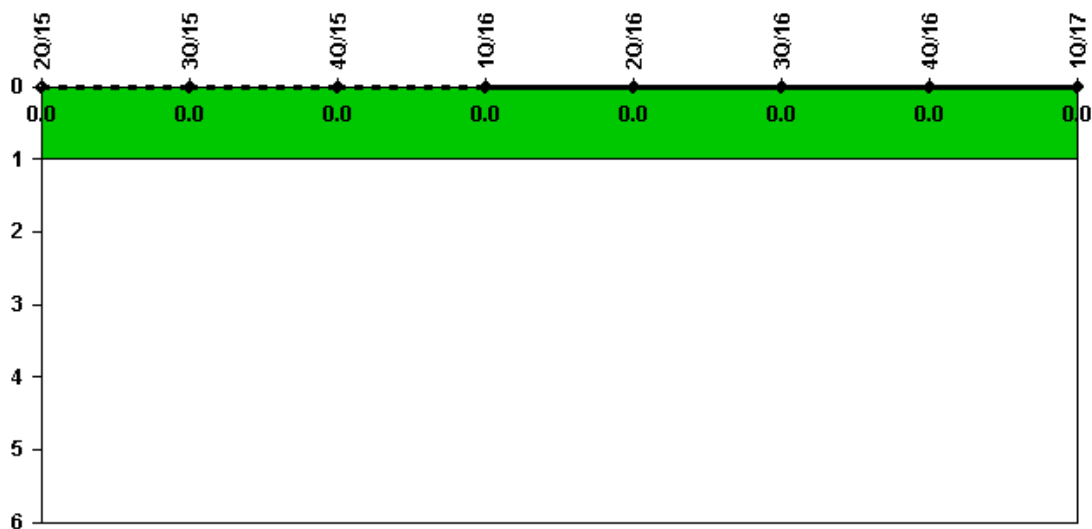
Notes

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	1.0	0	0	0	0	0	0
Critical hours	2184.0	1991.7	943.8	2183.0	2184.0	2208.0	2118.7	2159.0
Indicator value	0.8	1.6	1.9	1.0	1.0	0	0	0

▲ TOP

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

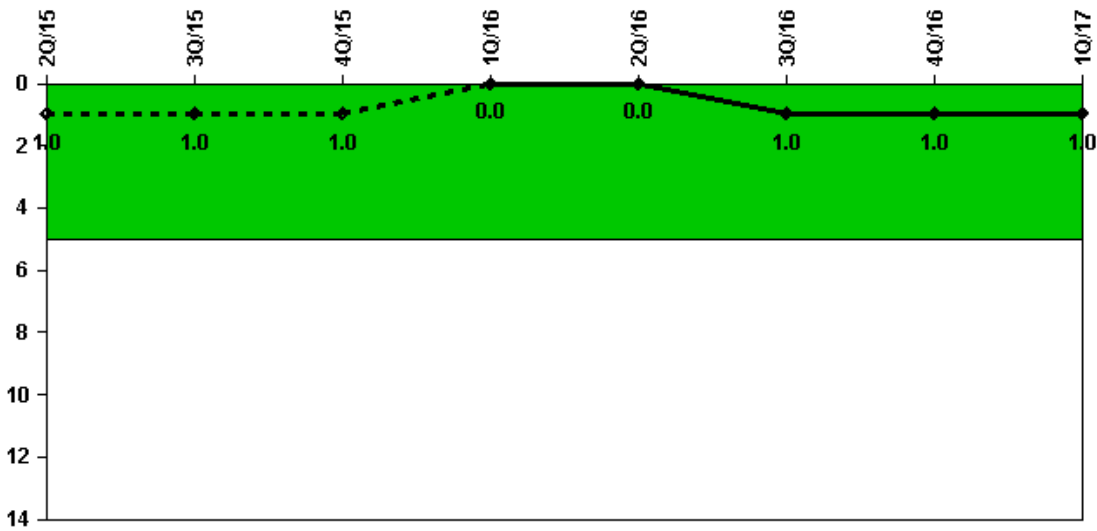
Notes

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 0 1 0 0

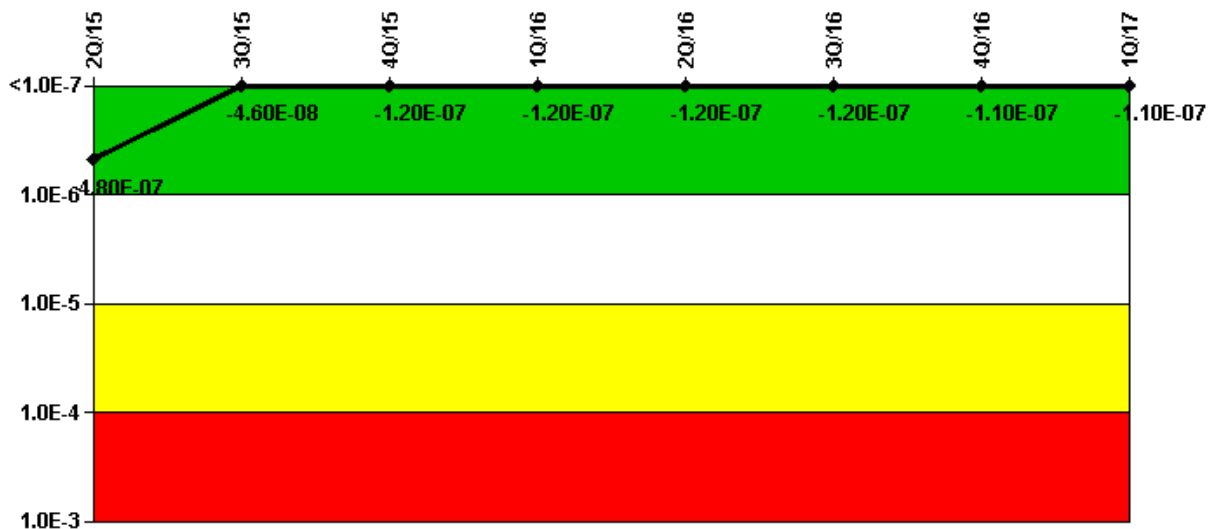
Indicator value 1 1 1 0 0 1 1 1

▲ 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

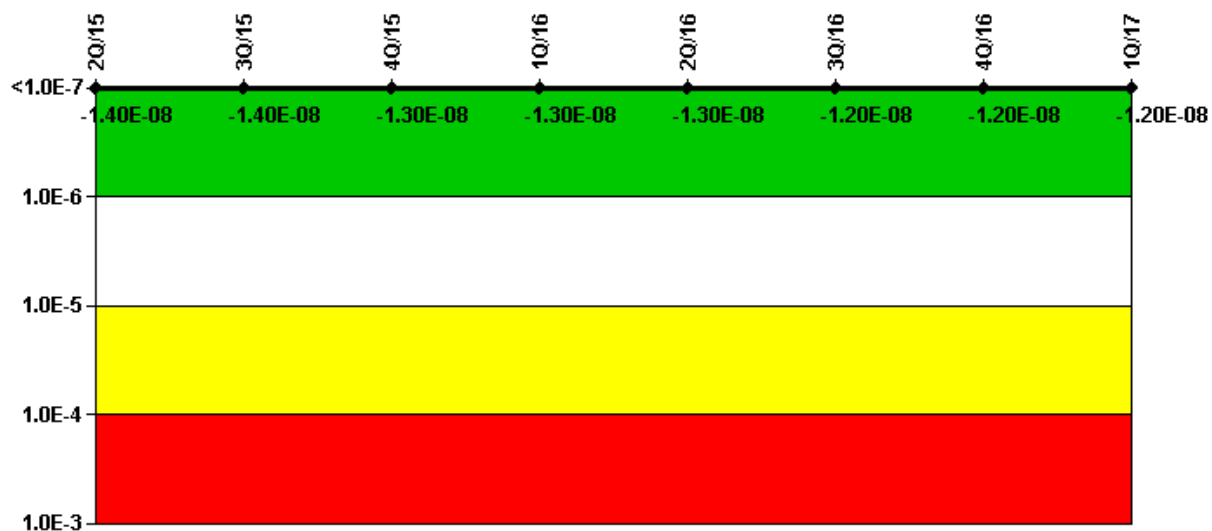
	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-1.06E-09	-1.33E-08	-1.61E-08	-1.61E-08	-1.58E-08	-1.58E-08	-1.25E-08	-1.25E-08
URI (ΔCDF)	4.83E-07	-3.22E-08	-1.02E-07	-1.03E-07	-1.03E-07	-1.03E-07	-1.02E-07	-1.02E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.80E-07	-4.60E-08	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.10E-07	-1.10E-07

▲ TOP

Licensee Comments:

2Q/15: 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

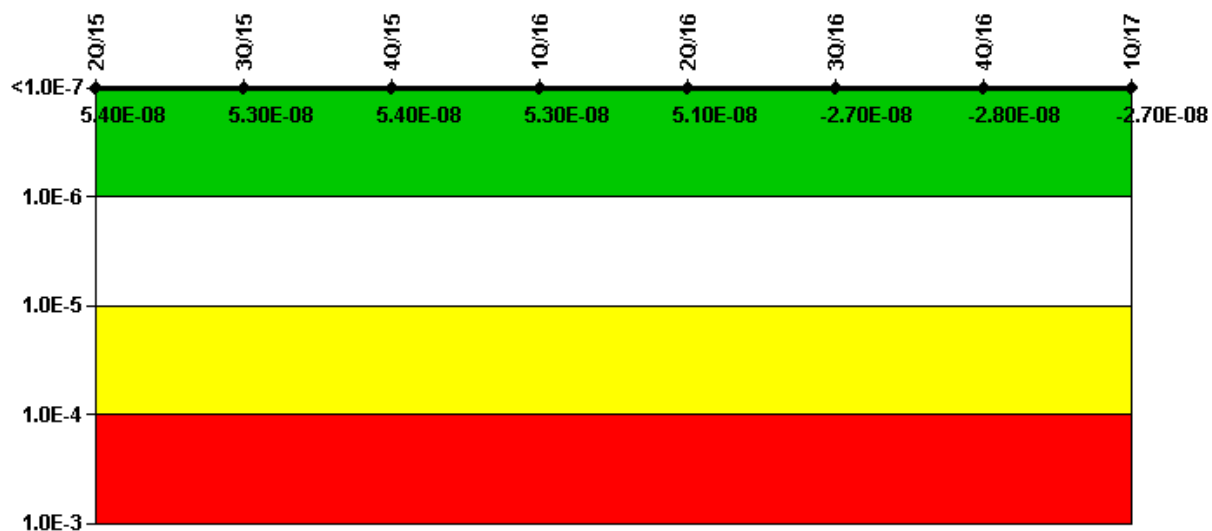
Mitigating Systems Performance Index, High Pressure Injection System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-6.29E-10	-7.17E-10	1.59E-10	-3.84E-11	-5.44E-11	1.06E-10	1.10E-10	1.07E-10
URI (ΔCDF)	-1.36E-08	-1.36E-08	-1.34E-08	-1.33E-08	-1.31E-08	-1.26E-08	-1.25E-08	-1.21E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	-1.40E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.20E-08	-1.20E-08	-1.20E-08

▲ TOP

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



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

Notes

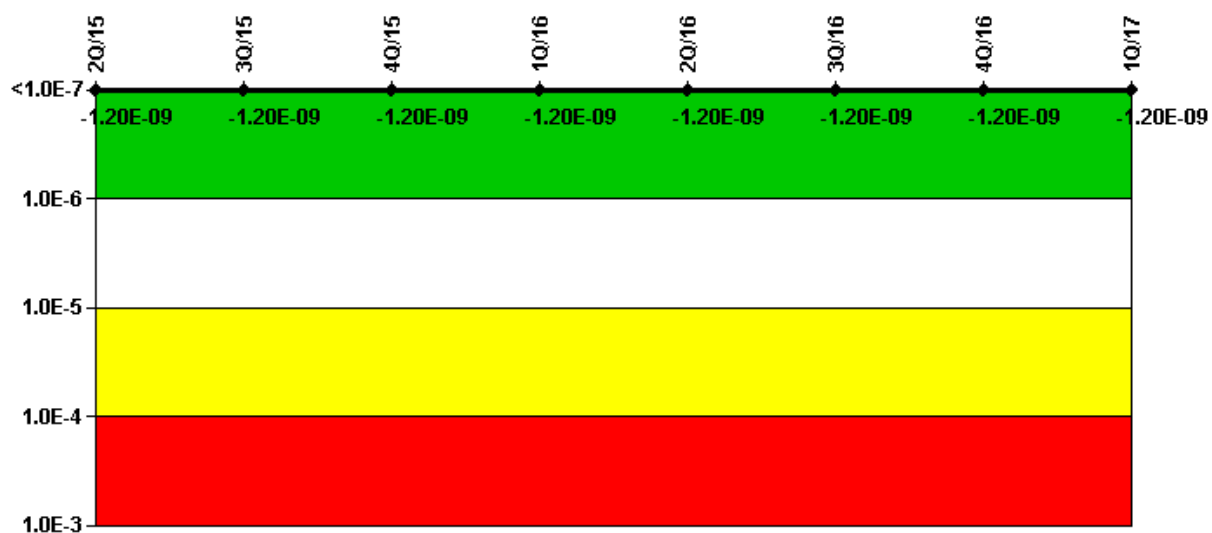
Mitigating Systems Performance Index, Heat Removal System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (Δ CDF)	-3.30E-09	-3.30E-09	-3.23E-09	-3.24E-09	-4.84E-09	-6.13E-09	-6.13E-09	-6.13E-09
URI (Δ CDF)	5.72E-08	5.58E-08	5.72E-08	5.59E-08	5.59E-08	-2.09E-08	-2.18E-08	-2.14E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.40E-08	5.30E-08	5.40E-08	5.30E-08	5.10E-08	-2.70E-08	-2.80E-08	-2.70E-08

▲ TOP

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

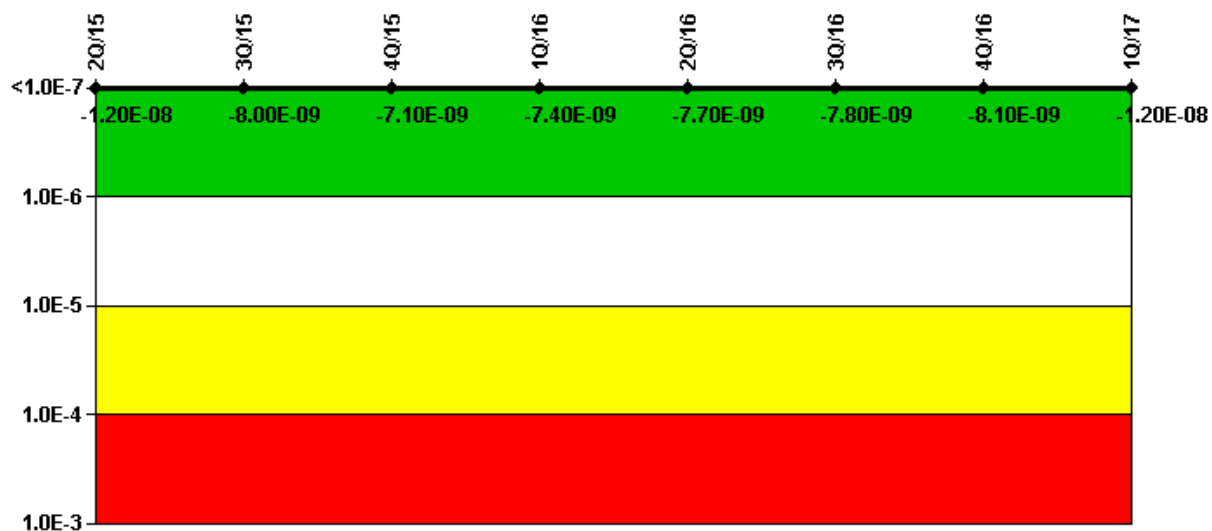
Mitigating Systems Performance Index, Residual Heat Removal System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10
URI (ΔCDF)	-9.46E-10	-9.46E-10	-9.47E-10	-9.37E-10	-9.27E-10	-9.37E-10	-9.08E-10	-9.08E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-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

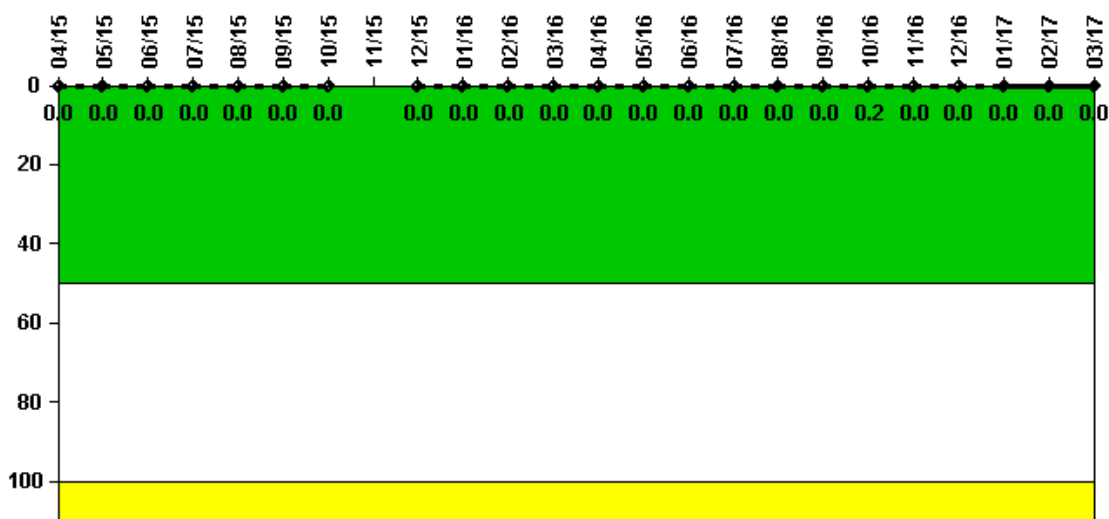
Mitigating Systems Performance Index, Cooling Water Systems

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-1.27E-09	-1.25E-09	-1.37E-09	-1.50E-09	-1.50E-09	-1.46E-09	-1.46E-09	-1.48E-09
URI (ΔCDF)	-1.05E-08	-6.73E-09	-5.70E-09	-5.95E-09	-6.25E-09	-6.29E-09	-6.63E-09	-1.07E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-08	-8.00E-09	-7.10E-09	-7.40E-09	-7.70E-09	-7.80E-09	-8.10E-09	-1.20E-08

▲ TOP

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

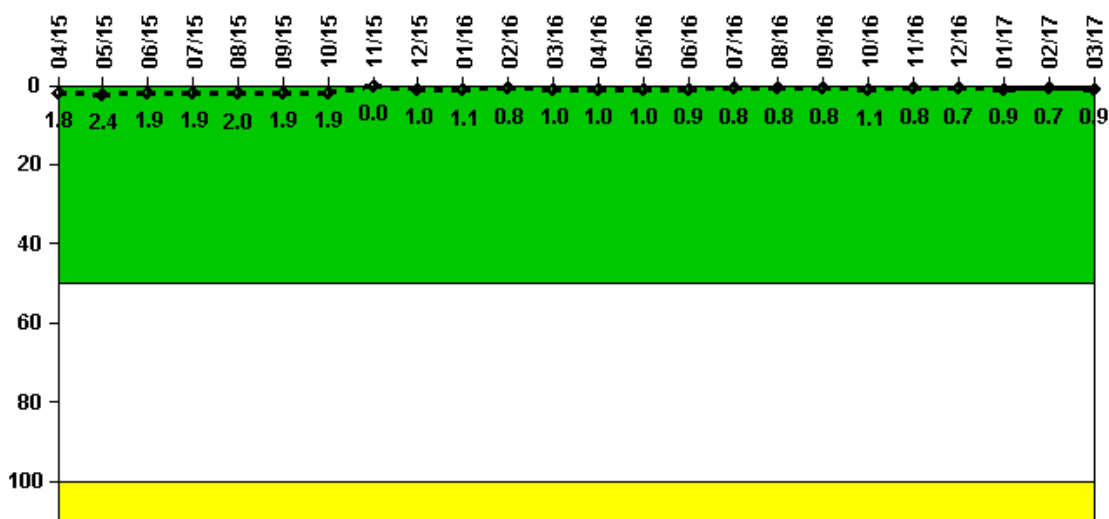
Notes

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	0.000103	0.000115	0.000126	0.000116	0.000064	0.000130	0.000182	N/A	0.000187	0.000063	0.000186	0.000231
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	N/A	0	0	0	0
Reactor Coolant System Activity	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum activity	0.000219	0.000267	0.000345	0.000363	0.000241	0.000314	0.001830	0.000271	0.000243	0.000181	0.000186	0.000237
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0.2	0	0	0	0	0

TOP

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum leakage	0.180	0.240	0.190	0.190	0.200	0.190	0.190	0	0.100	0.110	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

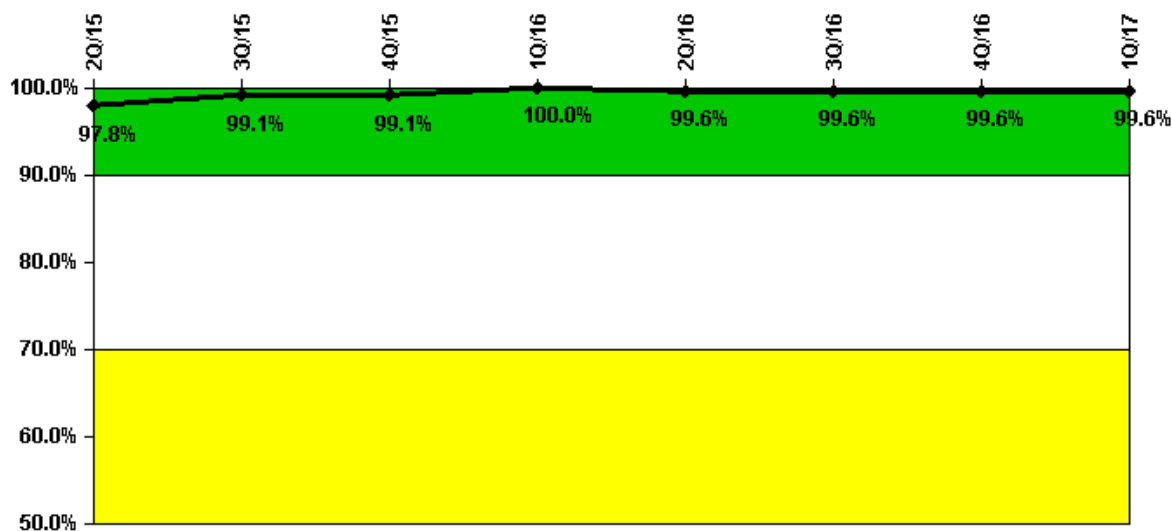
Indicator value	1.8	2.4	1.9	1.9	2.0	1.9	1.9	0	1.0	1.1	0.8	1.0
Reactor Coolant System Leakage	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum leakage	0.100	0.100	0.090	0.080	0.080	0.080	0.110	0.080	0.070	0.090	0.070	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Indicator value	1.0	1.0	0.9	0.8	0.8	0.8	1.1	0.8	0.7	0.9	0.7	0.9
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Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

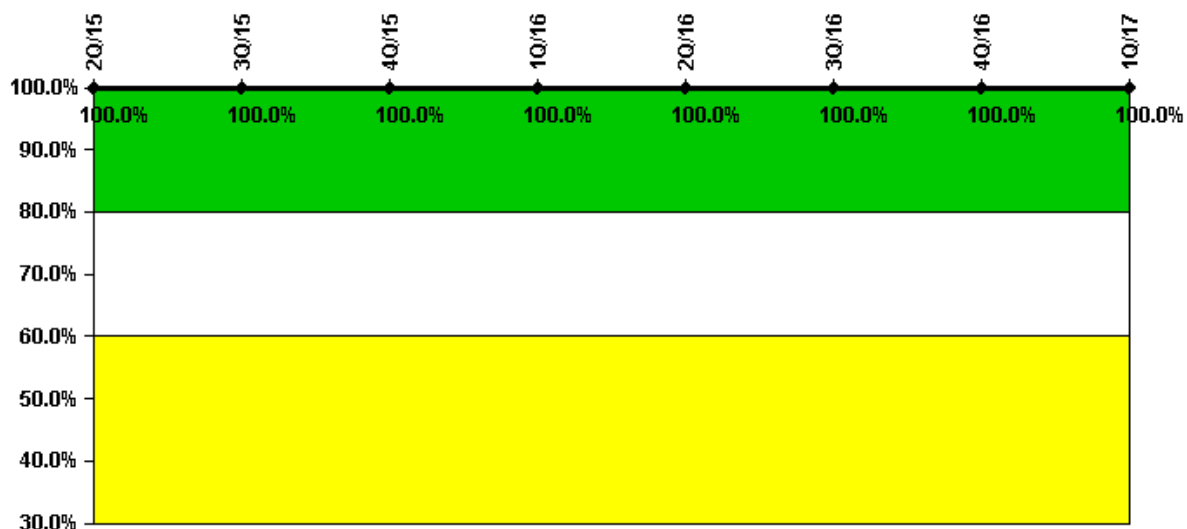
Drill/Exercise Performance	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful opportunities	31.0	35.0	20.0	39.0	45.0	21.0	24.0	37.0
Total opportunities	31.0	35.0	20.0	39.0	46.0	21.0	24.0	37.0

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

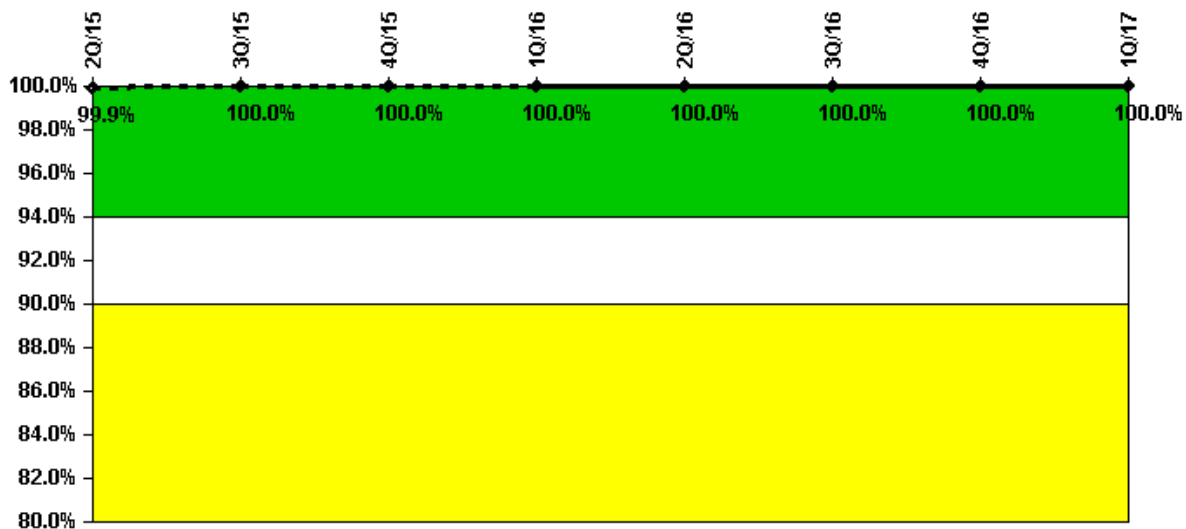
Indicator value **100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%**

▲ 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

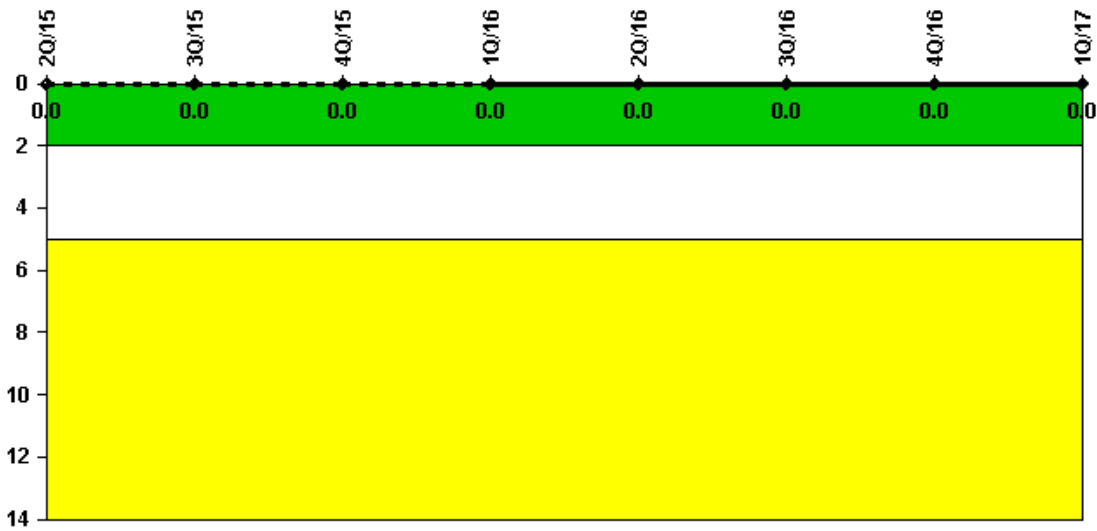
Alert & Notification System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful siren-tests	497	568	497	568	497	568	426	567
Total sirens-tests	497	568	497	568	497	568	426	568

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

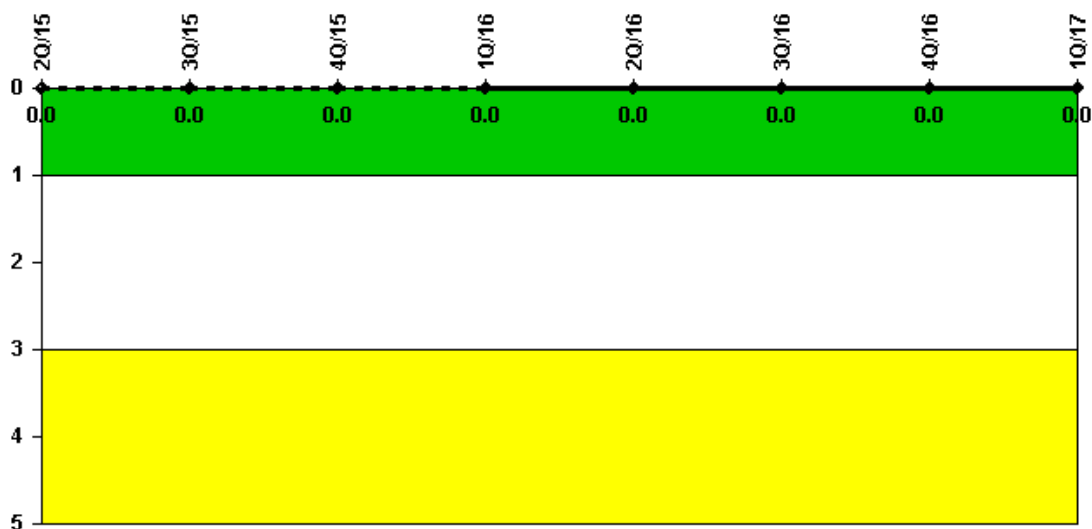
Notes

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 Effluent 2Q/15 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17

RETS/ODCM occurrences 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

[TOP](#)

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: May 5, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries> Surry 2 > Quarterly Performance Indicators

Surry 2 – Quarterly Performance Indicators

2Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
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- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Notes

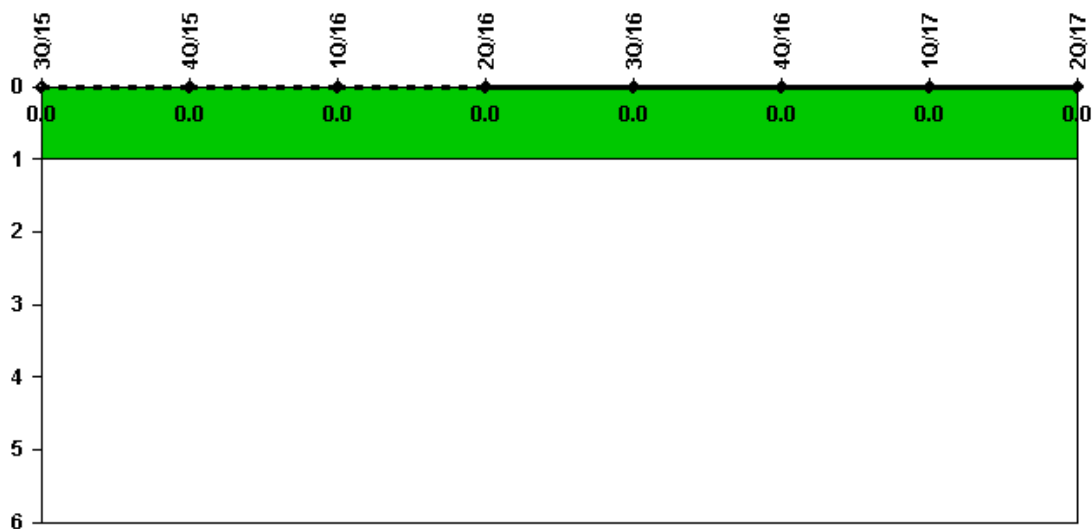
Unplanned Power Changes per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	1991.7	943.8	2183.0	2184.0	2208.0	2118.7	2159.0	1508.2

Indicator value	1.6	1.9	1.0	1.0	0	0	0	0
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Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

Notes

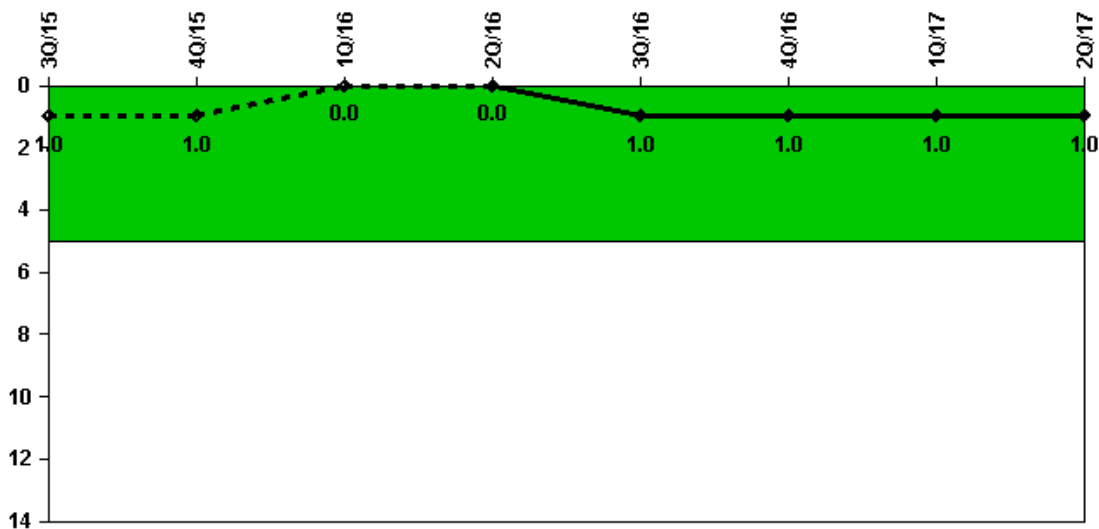
Unplanned Scrams with Complications	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Scrams with complications	0	0	0	0	0	0	0	0

Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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▲ 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

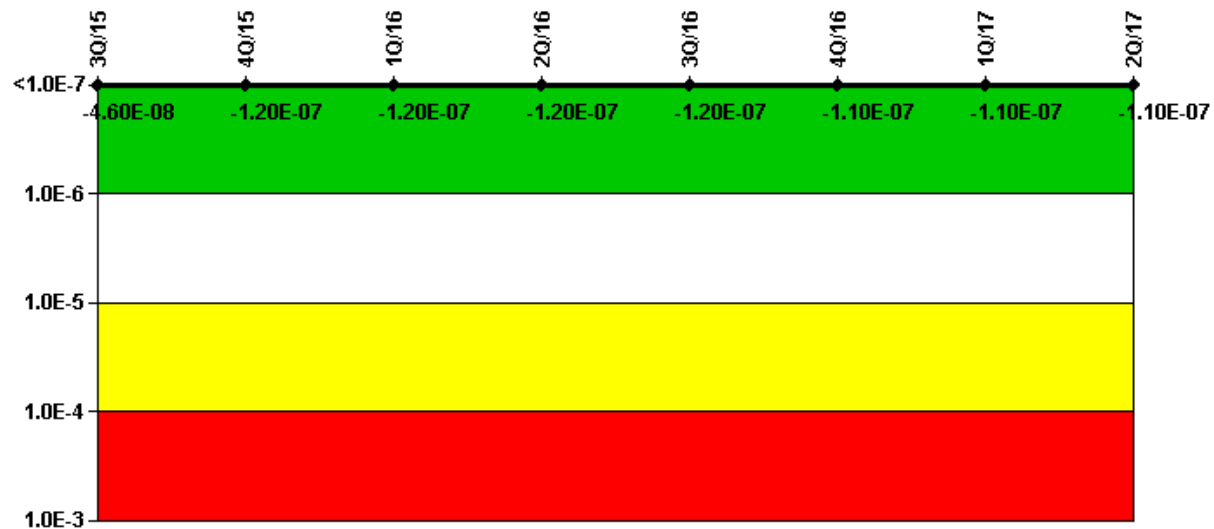
Safety System Functional Failures 0 0 0 0 1 0 0 0

Indicator value 1 1 0 0 1 1 1 1

▲ 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

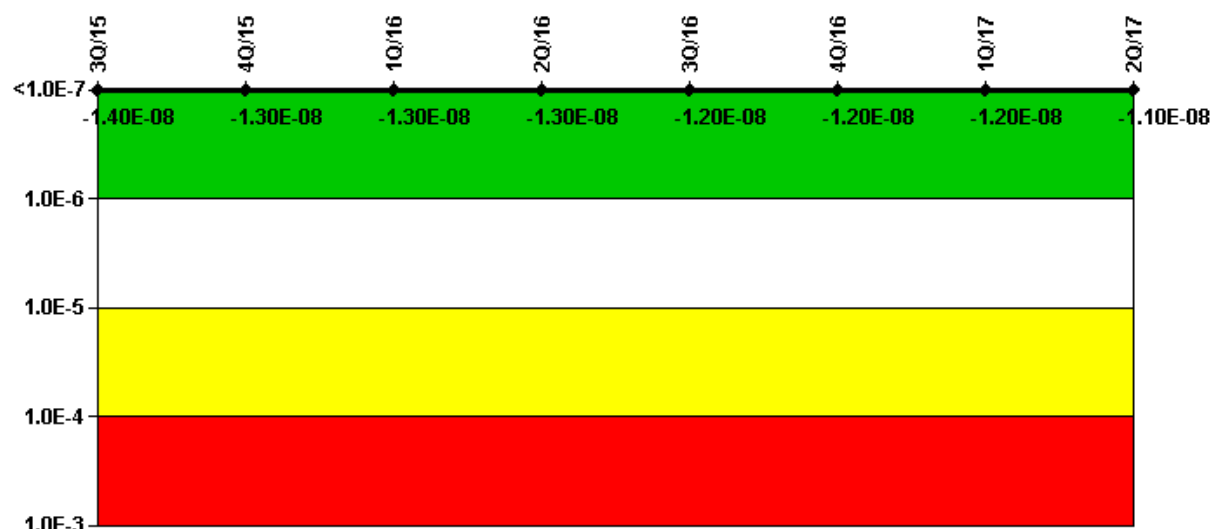
Mitigating Systems Performance Index, Emergency AC Power System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-1.33E-08	-1.61E-08	-1.61E-08	-1.58E-08	-1.58E-08	-1.25E-08	-1.25E-08	-1.25E-08
URI (ΔCDF)	-3.22E-08	-1.02E-07	-1.03E-07	-1.03E-07	-1.03E-07	-1.02E-07	-1.02E-07	-1.02E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.60E-08	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.10E-07	-1.10E-07	-1.10E-07

▲ 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

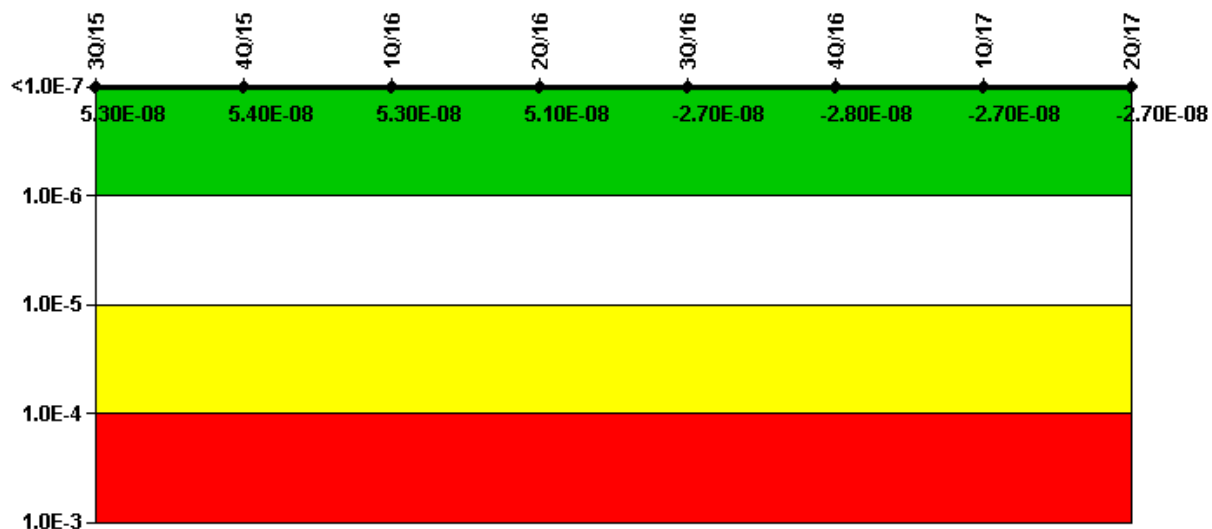
Mitigating Systems Performance Index, High Pressure Injection System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-7.17E-10	1.59E-10	-3.84E-11	-5.44E-11	1.06E-10	1.10E-10	1.07E-10	1.05E-10
URI (ΔCDF)	-1.36E-08	-1.34E-08	-1.33E-08	-1.31E-08	-1.26E-08	-1.25E-08	-1.21E-08	-1.14E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.10E-08

▲ TOP

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



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

Notes

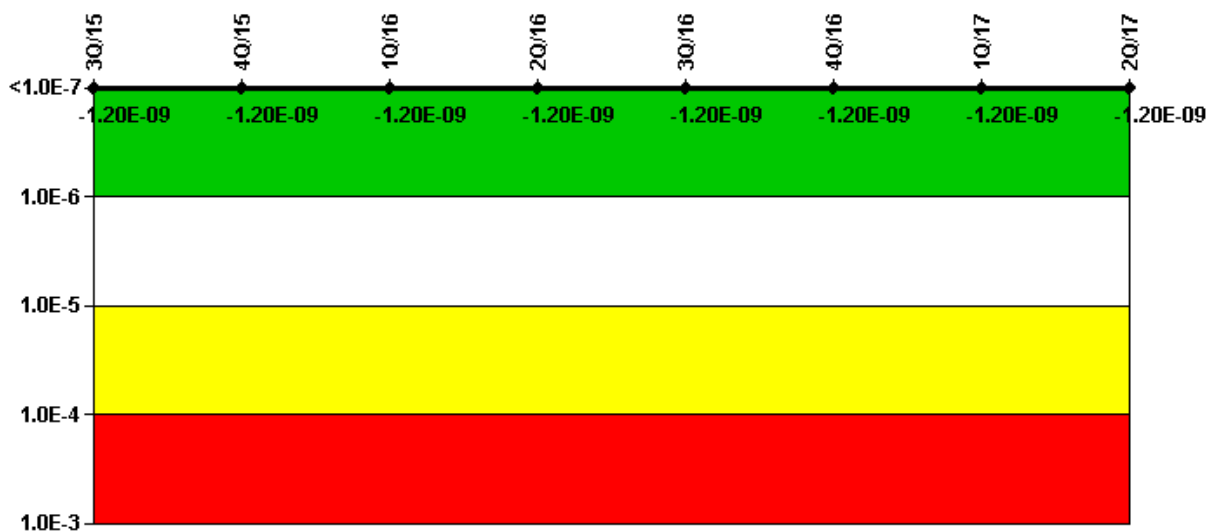
Mitigating Systems Performance Index, Heat Removal System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (Δ CDF)	-3.30E-09	-3.23E-09	-3.24E-09	-4.84E-09	-6.13E-09	-6.13E-09	-6.13E-09	-6.13E-09
URI (Δ CDF)	5.58E-08	5.72E-08	5.59E-08	5.59E-08	-2.09E-08	-2.18E-08	-2.14E-08	-2.09E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.30E-08	5.40E-08	5.30E-08	5.10E-08	-2.70E-08	-2.80E-08	-2.70E-08	-2.70E-08

▲ TOP

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

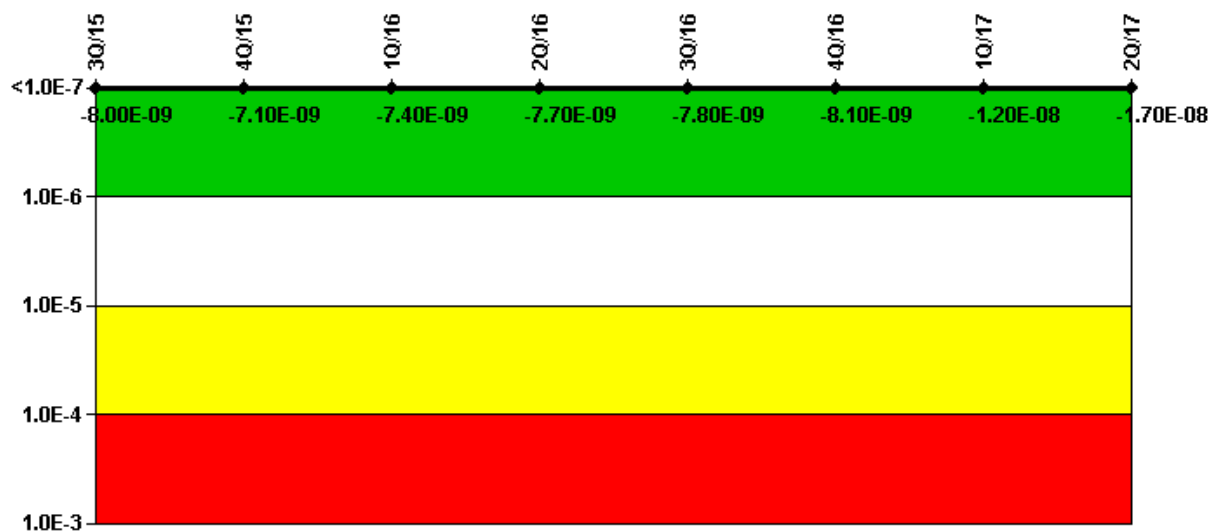
Mitigating Systems Performance Index, Residual Heat Removal System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10
URI (ΔCDF)	-9.46E-10	-9.47E-10	-9.37E-10	-9.27E-10	-9.37E-10	-9.08E-10	-9.08E-10	-9.10E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-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

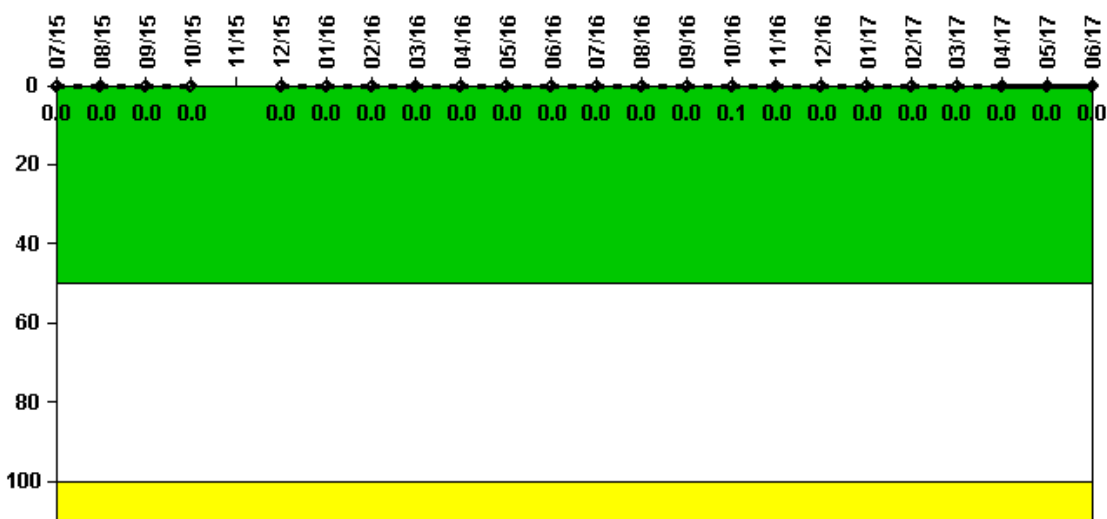
Mitigating Systems Performance Index, Cooling Water Systems

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-1.25E-09	-1.37E-09	-1.50E-09	-1.50E-09	-1.46E-09	-1.46E-09	-1.48E-09	-1.61E-09
URI (ΔCDF)	-6.73E-09	-5.70E-09	-5.95E-09	-6.25E-09	-6.29E-09	-6.63E-09	-1.07E-08	-1.51E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.00E-09	-7.10E-09	-7.40E-09	-7.70E-09	-7.80E-09	-8.10E-09	-1.20E-08	-1.70E-08

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Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

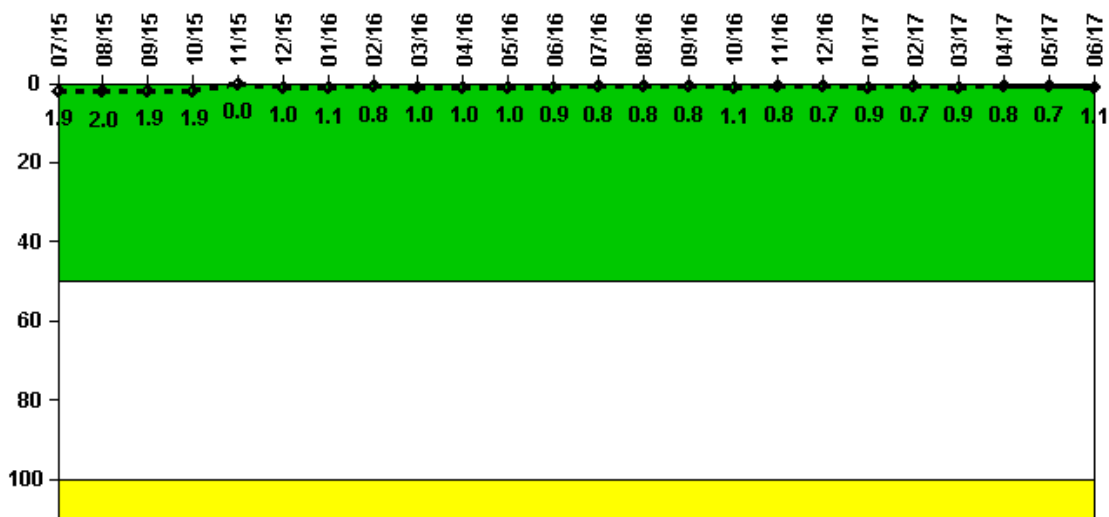
Reactor Coolant System Activity	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum activity	0.000116	0.000064	0.000130	0.000182	N/A	0.000187	0.000063	0.000186	0.000231	0.000219	0.000267	0.000345
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	N/A	0	0	0	0	0	0	0

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	0.000363	0.000241	0.000314	0.000527	0.000271	0.000243	0.000181	0.000186	0.000237	0.000292	0.000275	0.000127
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0.1	0	0	0	0	0	0	0	0

▲ 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	0.190	0.200	0.190	0.190	0	0.100	0.110	0.080	0.100	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

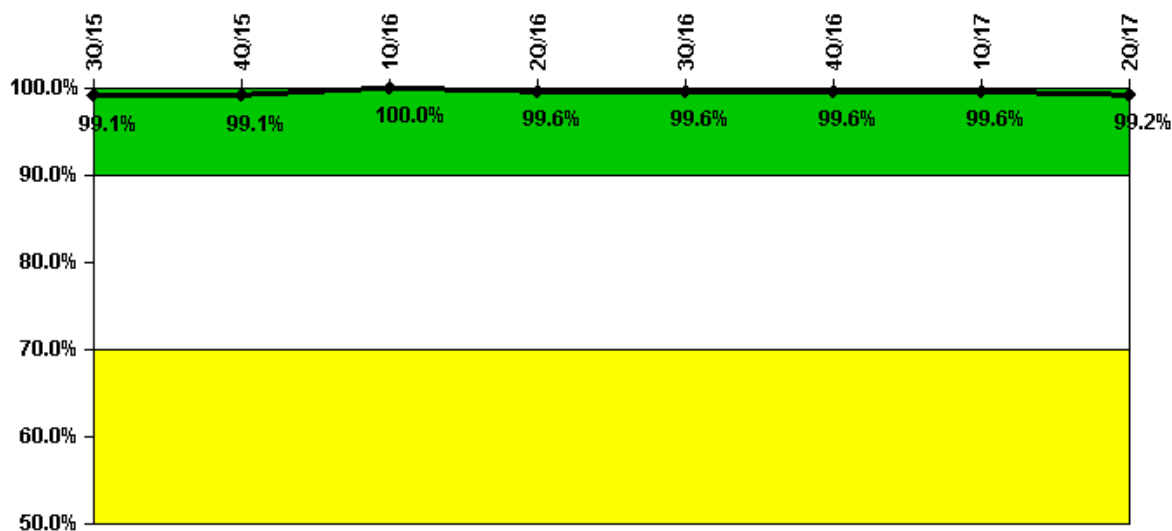
Indicator value	1.9	2.0	1.9	1.9	0	1.0	1.1	0.8	1.0	1.0	1.0	0.9
Reactor Coolant System Leakage	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17
Maximum leakage	0.080	0.080	0.080	0.110	0.080	0.070	0.090	0.070	0.090	0.080	0.070	0.110
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Indicator value	0.8	0.8	0.8	1.1	0.8	0.7	0.9	0.7	0.9	0.8	0.7	1.1
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Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

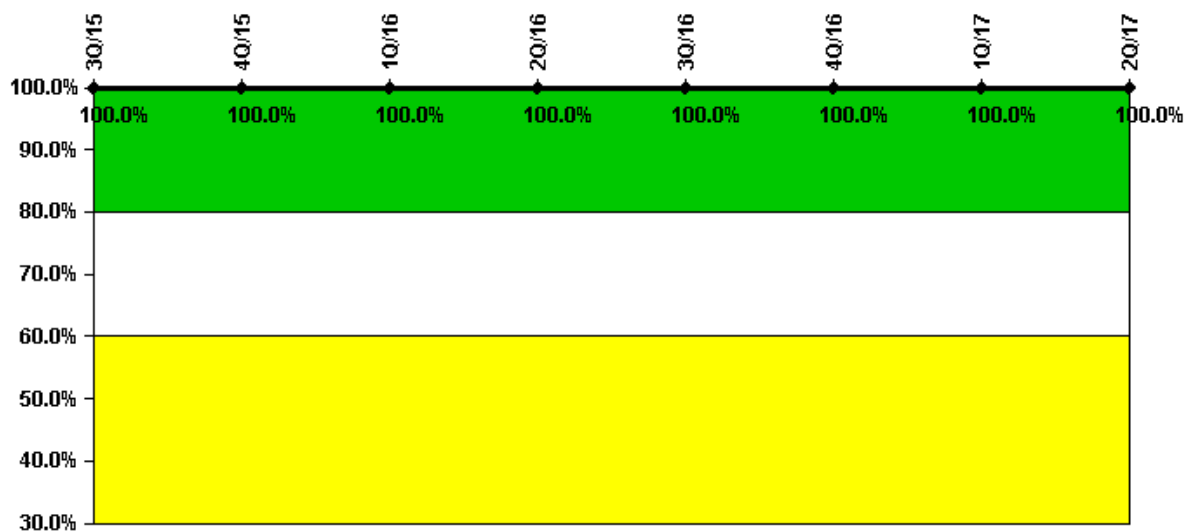
Drill/Exercise Performance	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful opportunities	35.0	20.0	39.0	45.0	21.0	24.0	37.0	33.0
Total opportunities	35.0	20.0	39.0	46.0	21.0	24.0	37.0	34.0

Indicator value 99.1% 99.1% 100.0% 99.6% 99.6% 99.6% 99.6% 99.2%

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Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

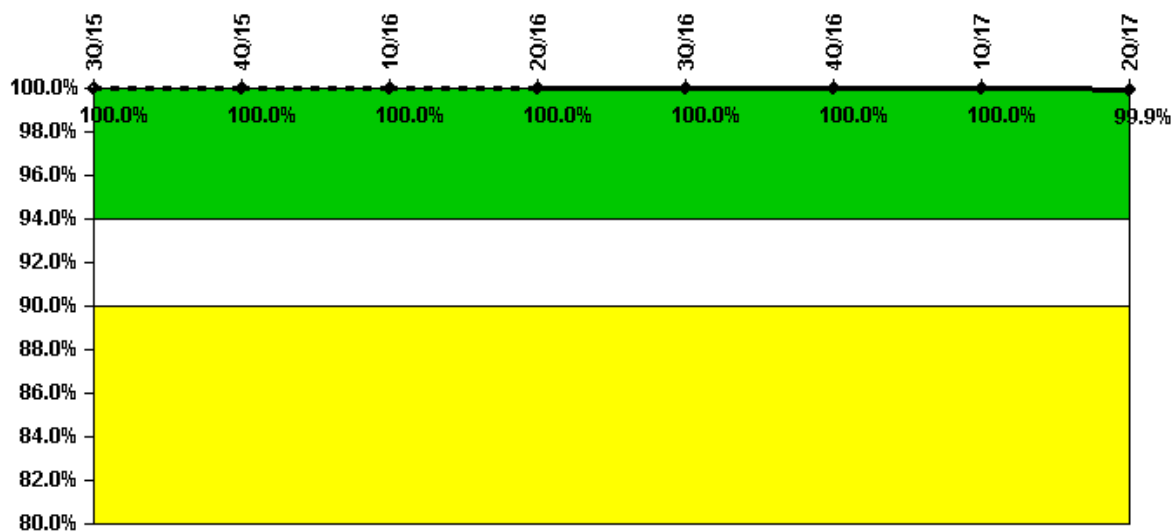
ERO Drill Participation	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Participating Key personnel	157.0	165.0	175.0	176.0	183.0	168.0	156.0	147.0
Total Key personnel	157.0	165.0	175.0	176.0	183.0	168.0	156.0	147.0

Indicator value **100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%**

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Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

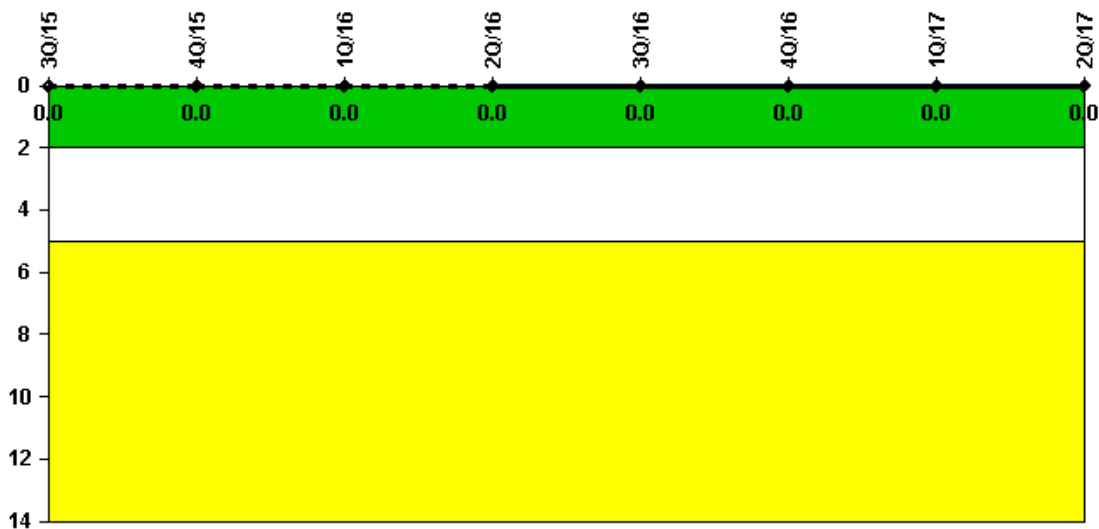
Alert & Notification System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful siren-tests	568	497	568	497	568	426	567	496
Total sirens-tests	568	497	568	497	568	426	568	497

Indicator value **100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 99.9%**

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Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

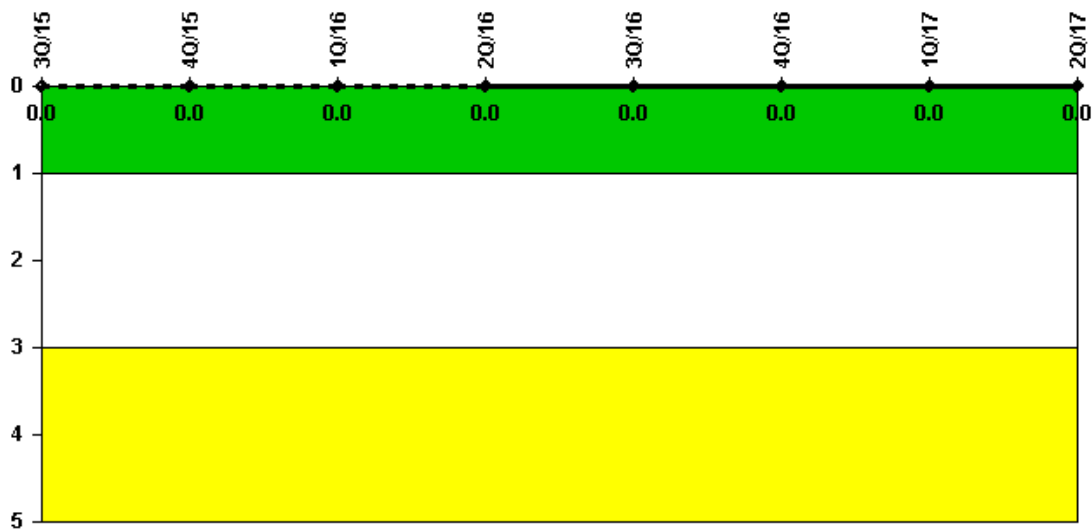
Occupational Exposure Control Effectiveness 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17

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 Effluent 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17

RETS/ODCM occurrences 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

[TOP](#)

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: July 26, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries > Surry 2 > Quarterly Performance Indicators

Surry 2 – Quarterly Performance Indicators

3Q/2017 Performance Indicators

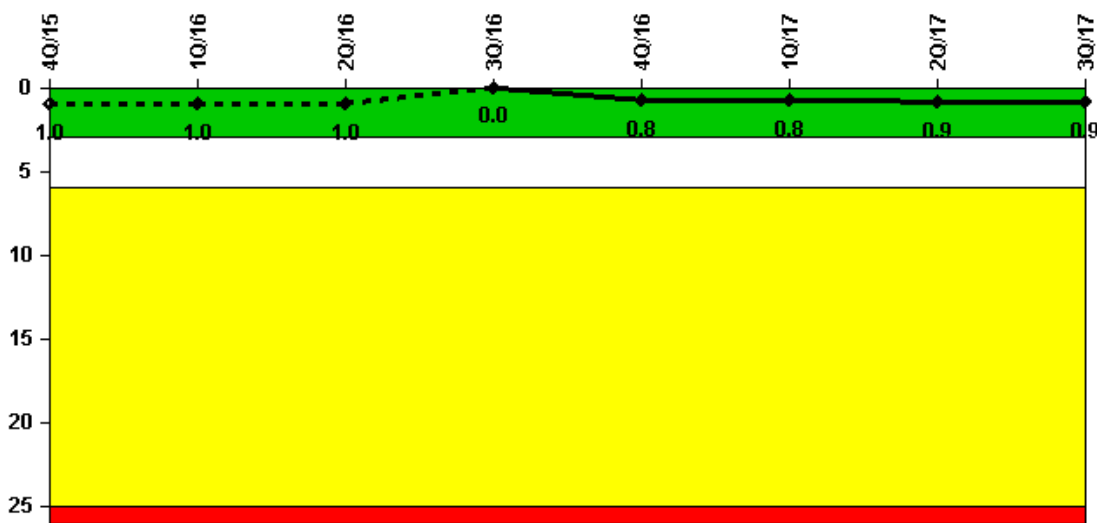
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

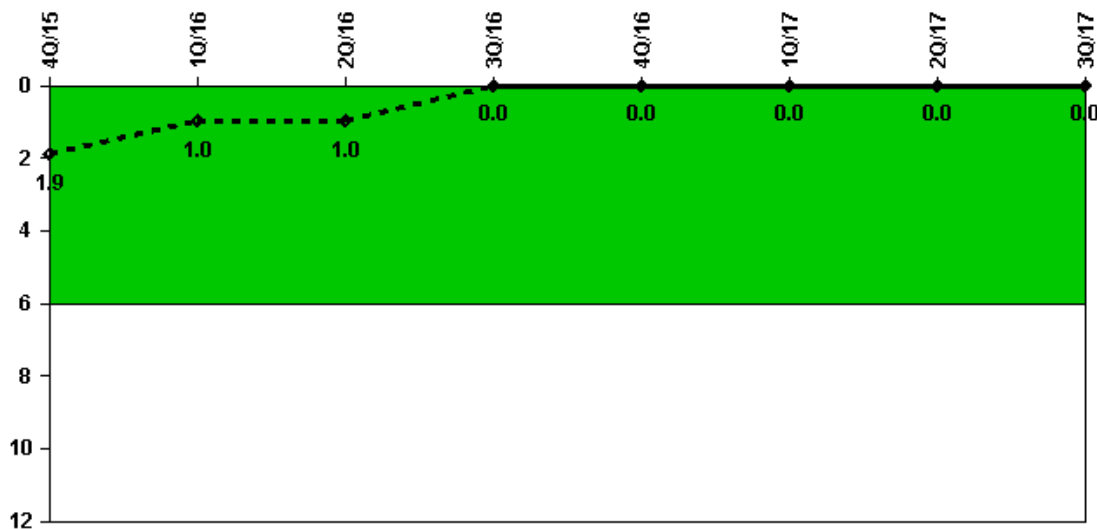
Unplanned Scrams per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	943.8	2183.0	2184.0	2208.0	2118.7	2159.0	1508.2	2208.0

Indicator value	1.0	1.0	1.0	0	0.8	0.8	0.9	0.9
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Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

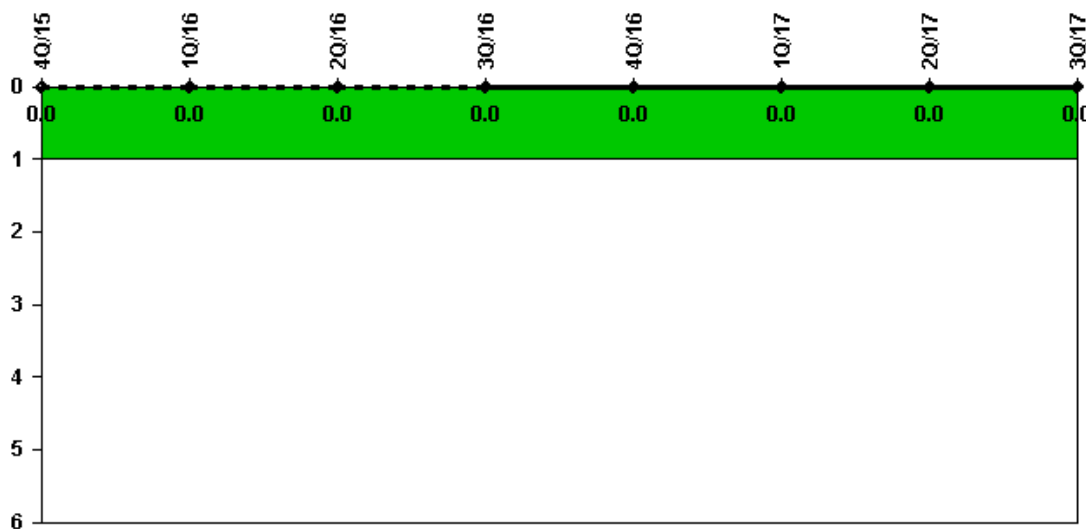
Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	943.8	2183.0	2184.0	2208.0	2118.7	2159.0	1508.2	2208.0
Indicator value	1.9	1.0	1.0	0	0	0	0	0

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Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

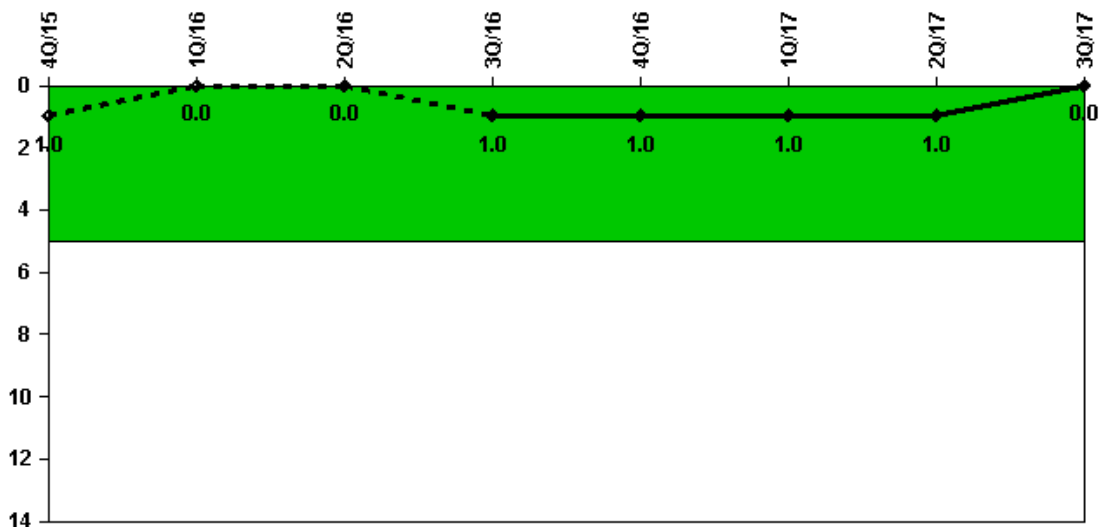
Notes

Unplanned Scrams with Complications	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

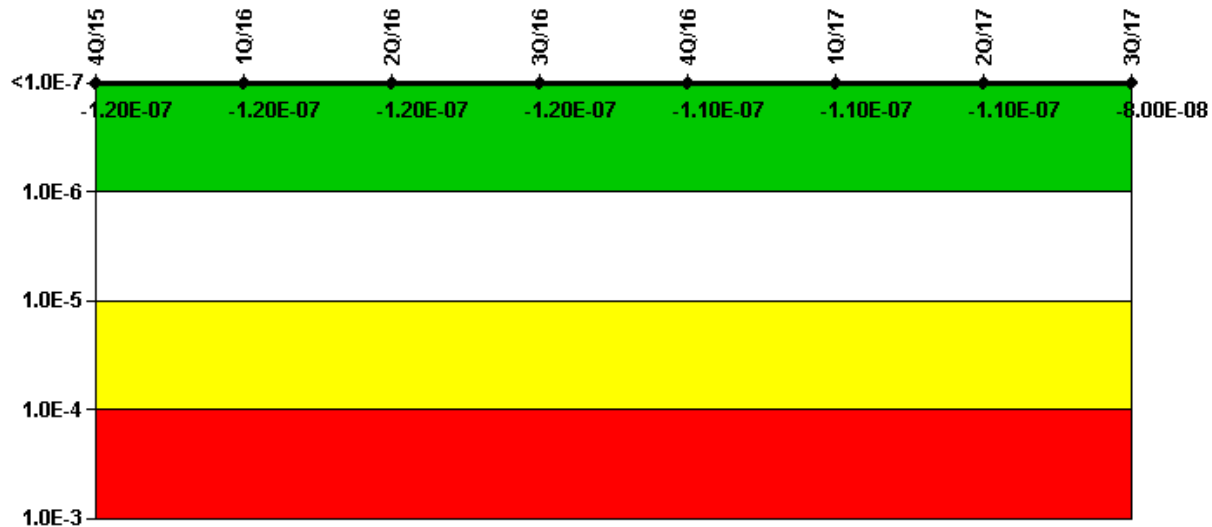
Safety System Functional Failures 0 0 0 1 0 0 0 0

Indicator value 1 0 0 1 1 1 1 0

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Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System

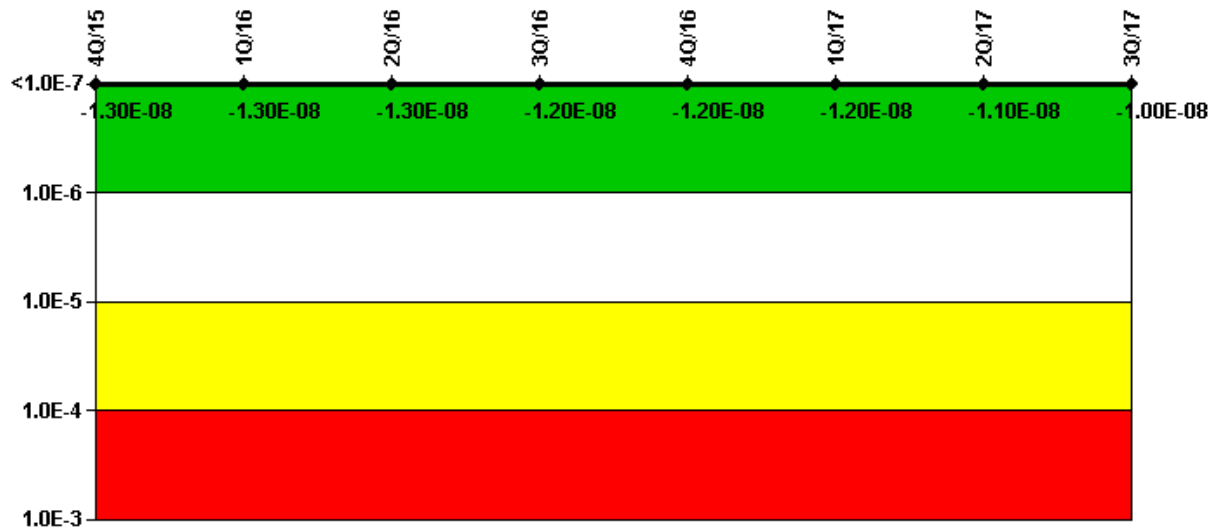
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-1.61E-08	-1.61E-08	-1.58E-08	-1.58E-08	-1.25E-08	-1.25E-08	-1.25E-08	-1.26E-08
URI (ΔCDF)	-1.02E-07	-1.03E-07	-1.03E-07	-1.03E-07	-1.02E-07	-1.02E-07	-1.02E-07	-6.77E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.10E-07	-1.10E-07	-1.10E-07	-8.00E-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

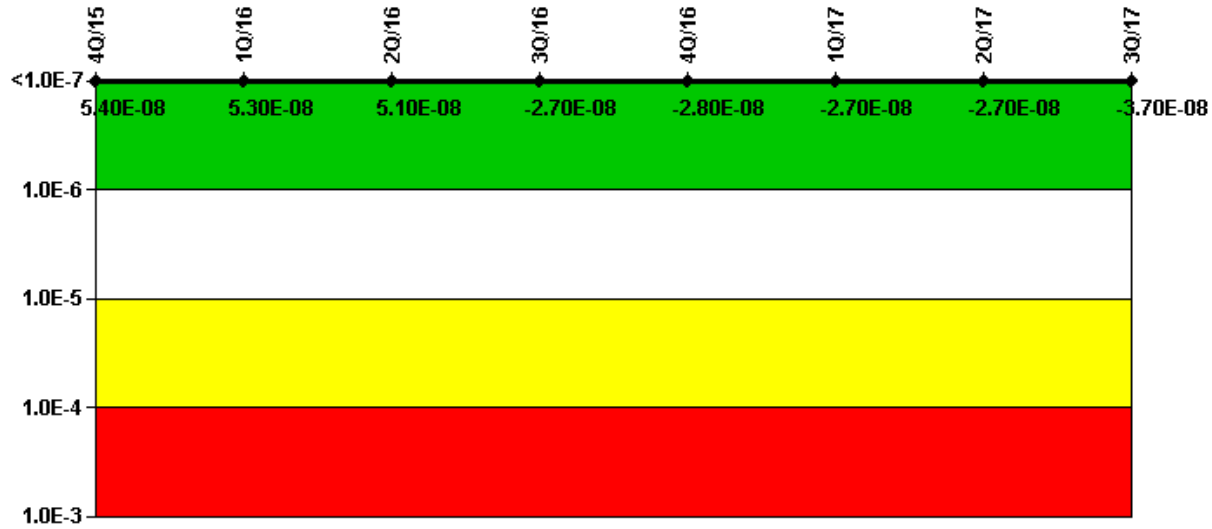
Mitigating Systems Performance Index, High Pressure Injection System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	1.59E-10	-3.84E-11	-5.44E-11	1.06E-10	1.10E-10	1.07E-10	1.05E-10	7.66E-10
URI (ΔCDF)	-1.34E-08	-1.33E-08	-1.31E-08	-1.26E-08	-1.25E-08	-1.21E-08	-1.14E-08	-1.09E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-08	-1.30E-08	-1.30E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.10E-08	-1.00E-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

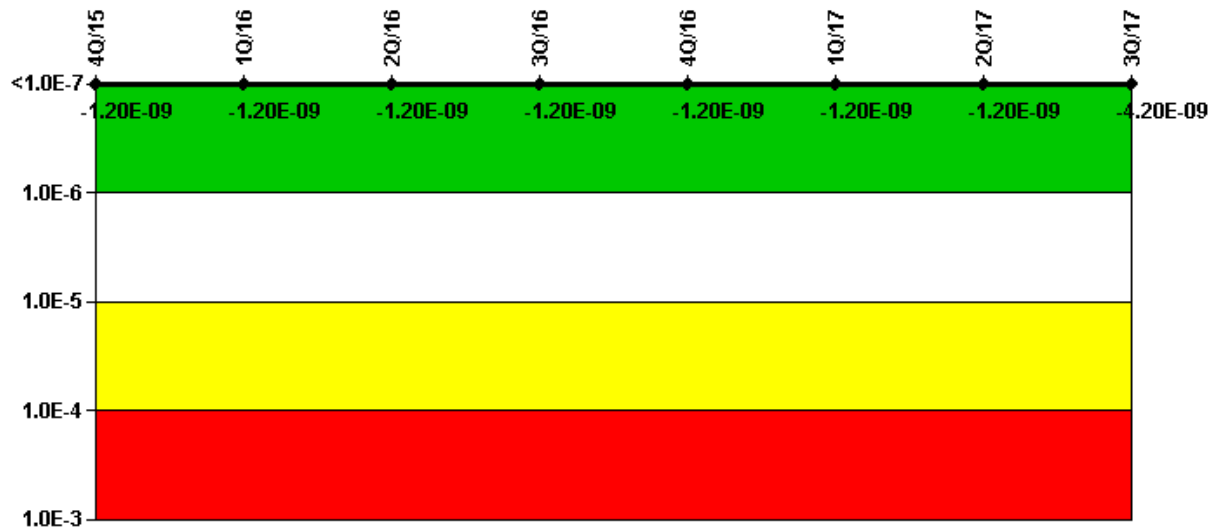
Mitigating Systems Performance Index, Heat Removal System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-3.23E-09	-3.24E-09	-4.84E-09	-6.13E-09	-6.13E-09	-6.13E-09	-6.13E-09	-8.87E-09
URI (ΔCDF)	5.72E-08	5.59E-08	5.59E-08	-2.09E-08	-2.18E-08	-2.14E-08	-2.09E-08	-2.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.40E-08	5.30E-08	5.10E-08	-2.70E-08	-2.80E-08	-2.70E-08	-2.70E-08	-3.70E-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

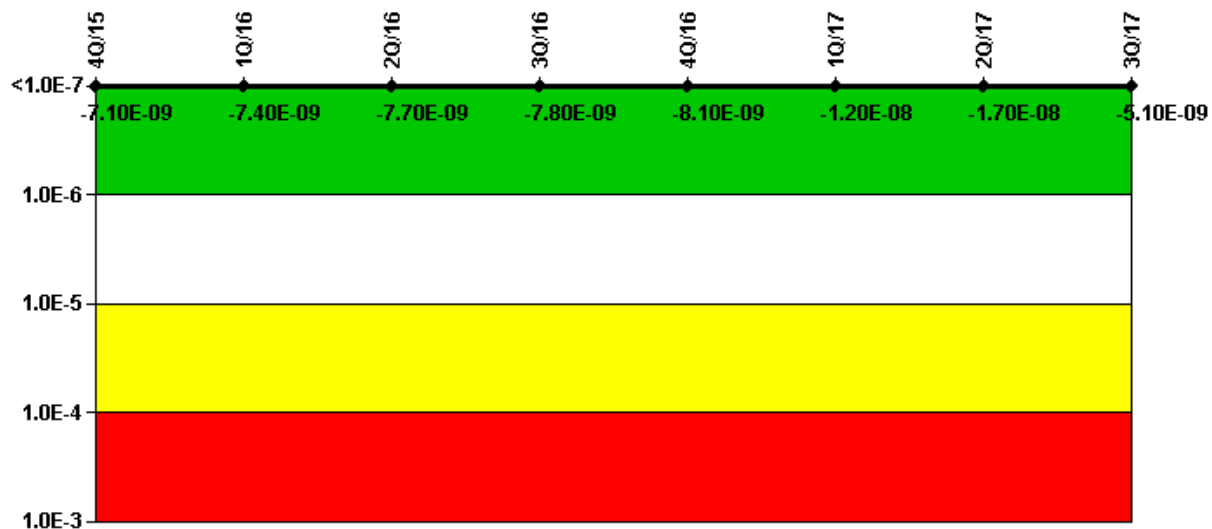
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-1.23E-09
URI (Δ CDF)	-9.47E-10	-9.37E-10	-9.27E-10	-9.37E-10	-9.08E-10	-9.08E-10	-9.10E-10	-2.99E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-4.20E-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

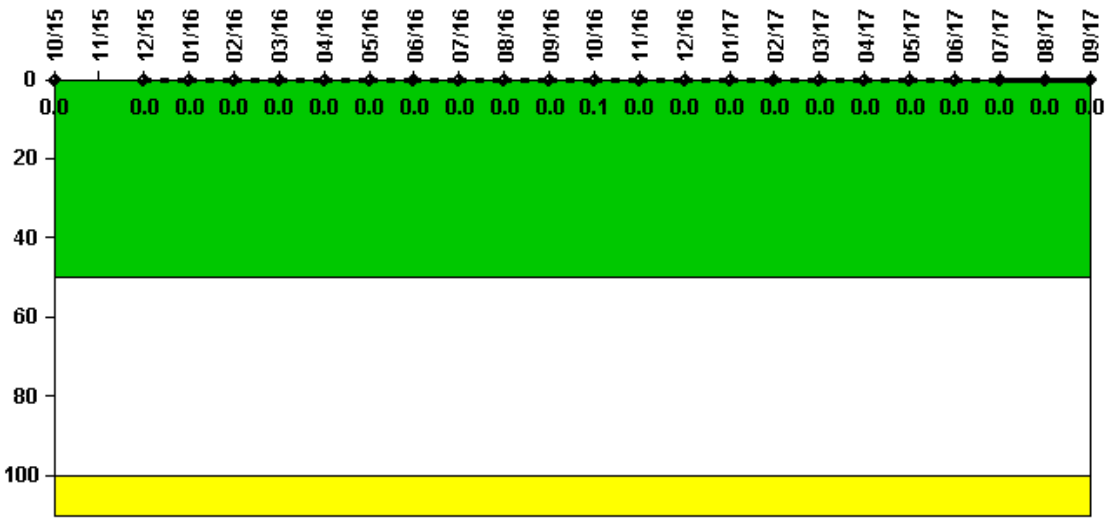
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (Δ CDF)	-1.37E-09	-1.50E-09	-1.50E-09	-1.46E-09	-1.46E-09	-1.48E-09	-1.61E-09	-3.02E-09
URI (Δ CDF)	-5.70E-09	-5.95E-09	-6.25E-09	-6.29E-09	-6.63E-09	-1.07E-08	-1.51E-08	-2.10E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.10E-09	-7.40E-09	-7.70E-09	-7.80E-09	-8.10E-09	-1.20E-08	-1.70E-08	-5.10E-09

▲ TOP

Licensee Comments:

3Q/17: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

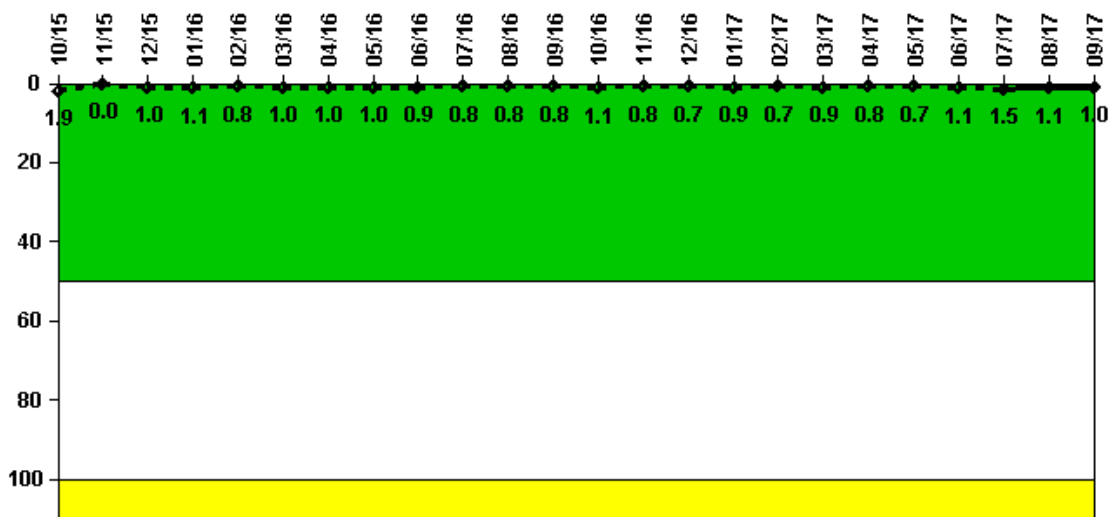
Notes

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	0.000182	N/A	0.000187	0.000063	0.000186	0.000231	0.000219	0.000267	0.000345	0.000363	0.000241	0.000314
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	N/A	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum activity	0.000527	0.000271	0.000243	0.000181	0.000186	0.000237	0.000292	0.000275	0.000127	0.000136	0.000147	0.000146
Technical specification limit	1.0	1.0	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	0	0	0	0	0	0	0	0	0

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	0.190	0	0.100	0.110	0.080	0.100	0.100	0.100	0.090	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

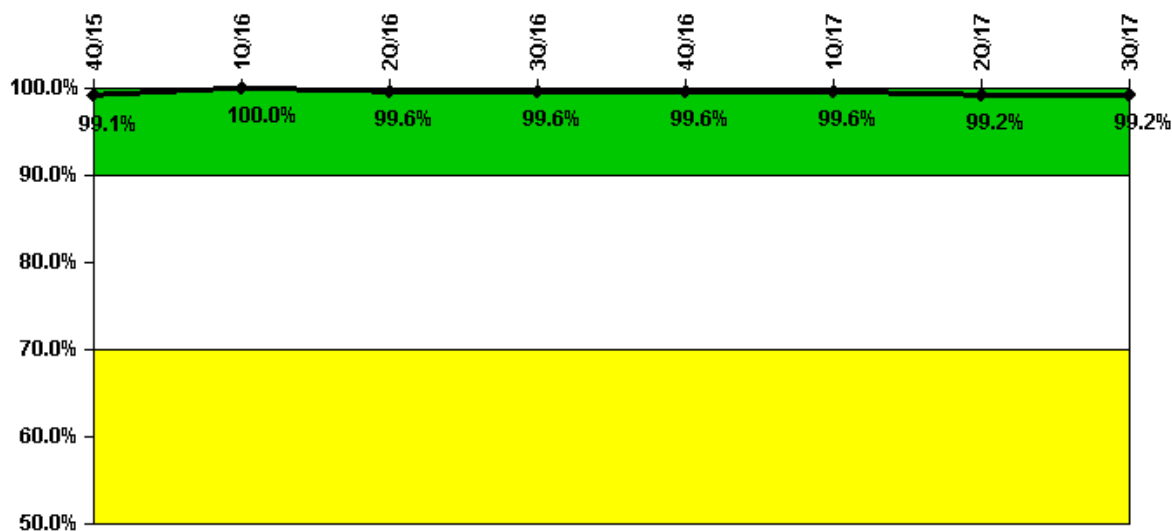
Indicator value	1.9	0	1.0	1.1	0.8	1.0	1.0	1.0	0.9	0.8	0.8	0.8
Reactor Coolant System Leakage	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum leakage	0.110	0.080	0.070	0.090	0.070	0.090	0.080	0.070	0.110	0.150	0.110	0.100
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Indicator value	1.1	0.8	0.7	0.9	0.7	0.9	0.8	0.7	1.1	1.5	1.1	1.0
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Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

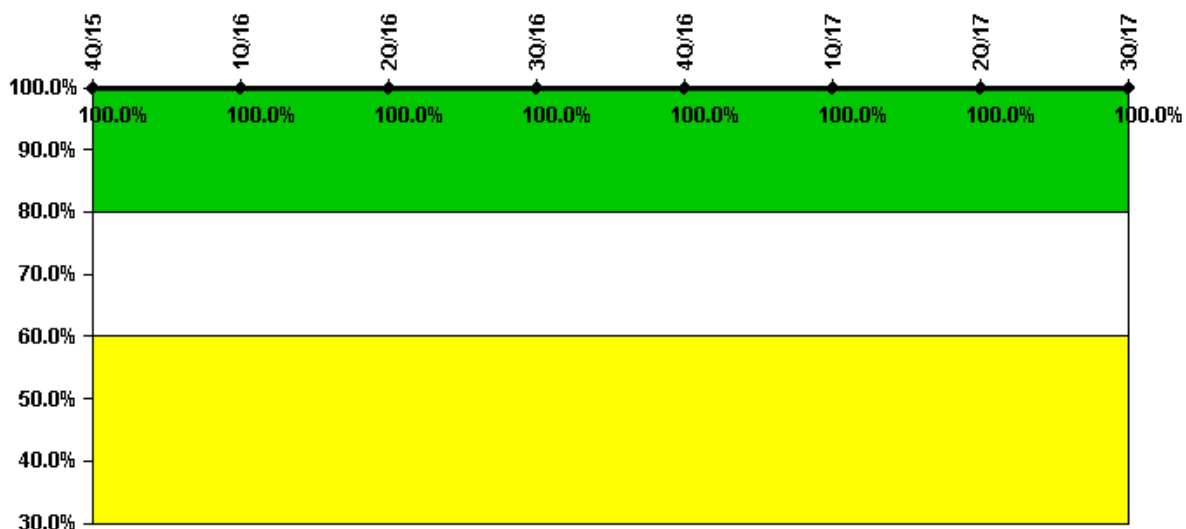
Drill/Exercise Performance	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful opportunities	20.0	39.0	45.0	21.0	24.0	37.0	33.0	42.0
Total opportunities	20.0	39.0	46.0	21.0	24.0	37.0	34.0	42.0

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

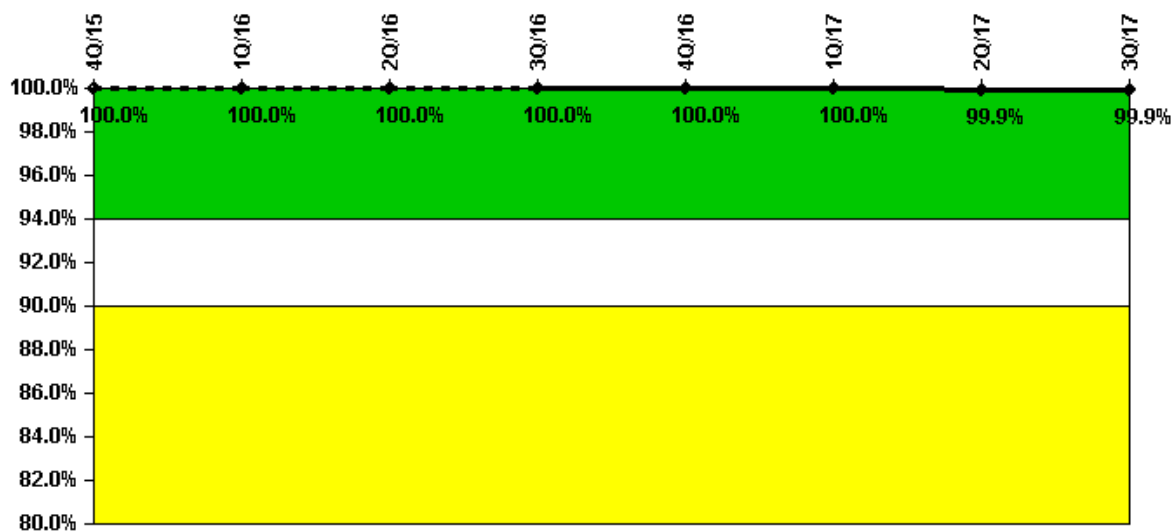
ERO Drill Participation	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Participating Key personnel	165.0	175.0	176.0	183.0	168.0	156.0	147.0	149.0
Total Key personnel	165.0	175.0	176.0	183.0	168.0	156.0	147.0	149.0

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

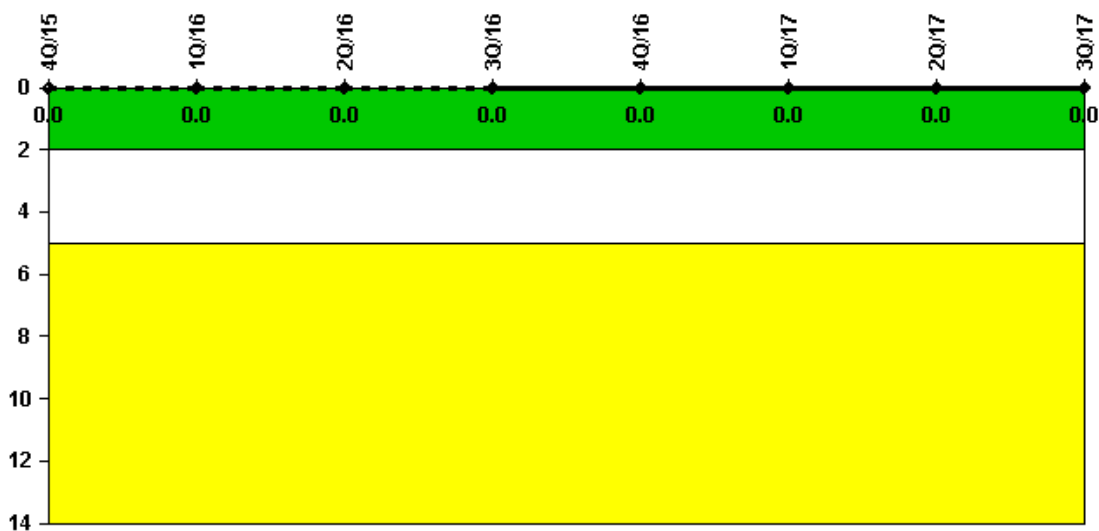
Alert & Notification System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful siren-tests	497	568	497	568	426	567	496	568
Total sirens-tests	497	568	497	568	426	568	497	568

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

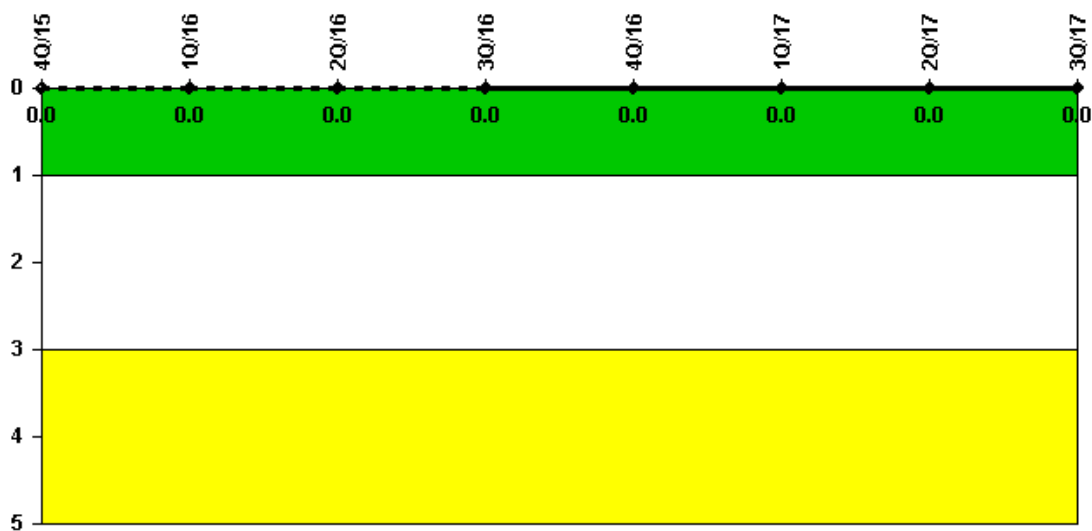
Occupational Exposure Control Effectiveness 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17

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

▲ TOP

Licensee Comments: none

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

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Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: October 31, 2017

Page Last Reviewed/Updated Monday, November 06, 2017



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries> Surry 2 > Quarterly Performance Indicators

Surry 2 – Quarterly Performance Indicators

4Q/2017 Performance Indicators

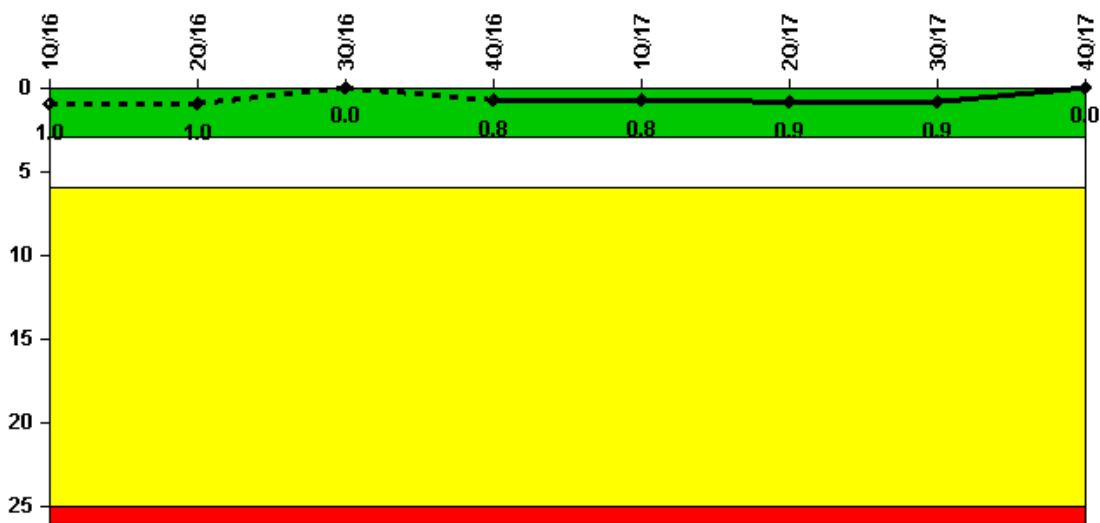
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

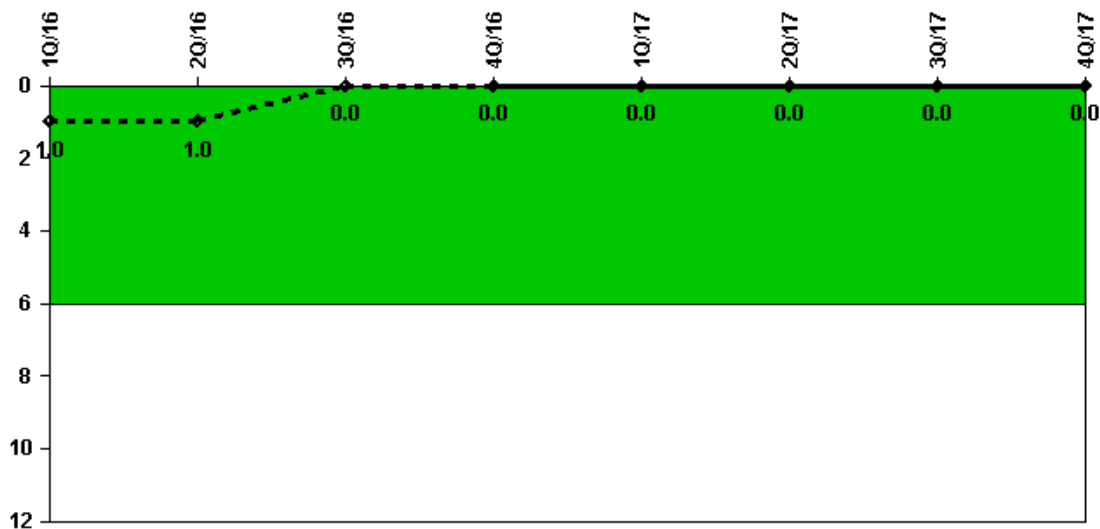
Unplanned Scrams per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2118.7	2159.0	1508.2	2208.0	2209.0

Indicator value	1.0	1.0	0	0.8	0.8	0.9	0.9	0
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Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

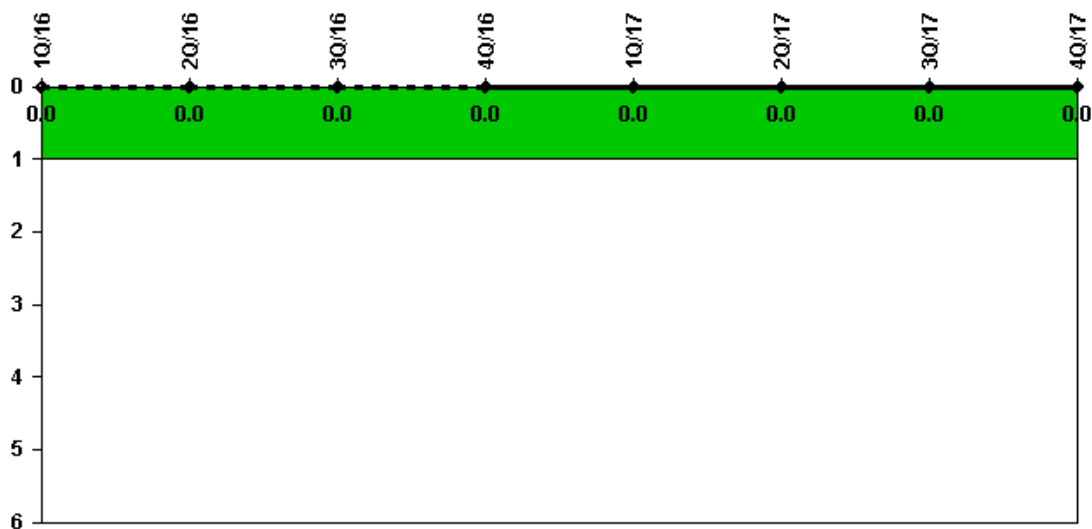
Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2118.7	2159.0	1508.2	2208.0	2209.0
Indicator value	1.0	1.0	0	0	0	0	0	0

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Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

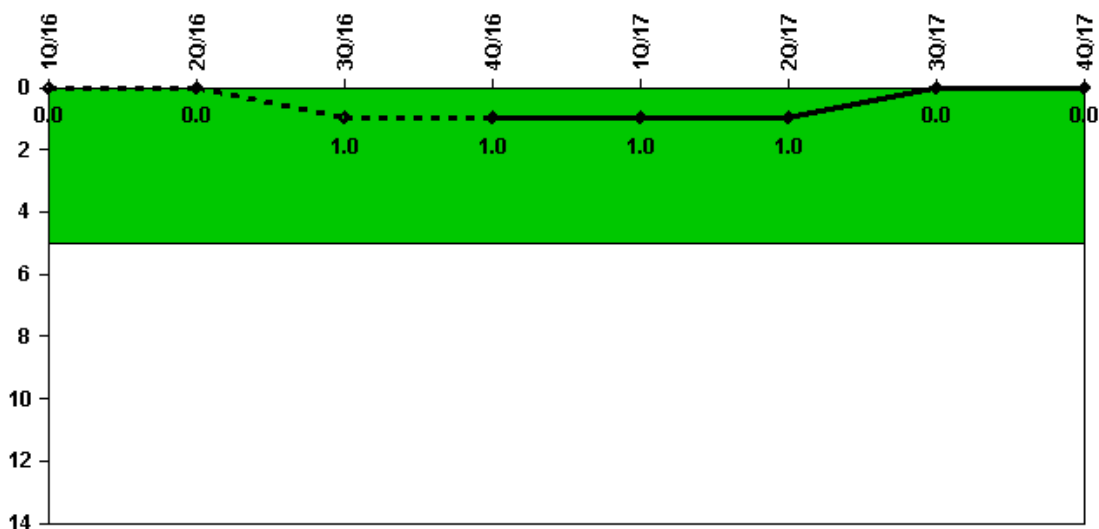
Notes

Unplanned Scrams with Complications	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

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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

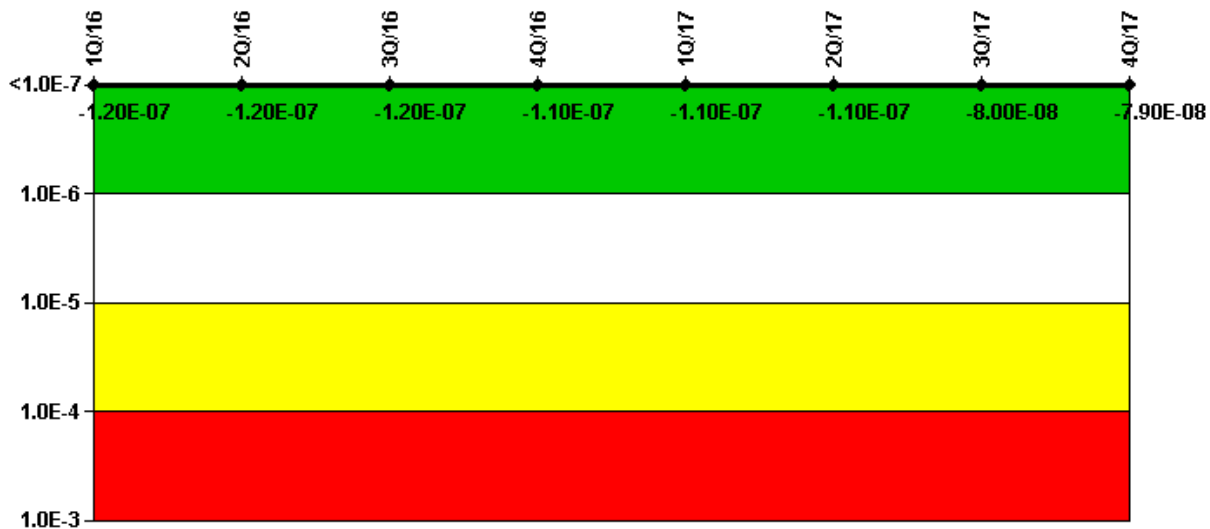
Safety System Functional Failures 0 0 1 1 1 1 0 0

Indicator value 0 0 1 1 1 1 0 0

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Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System

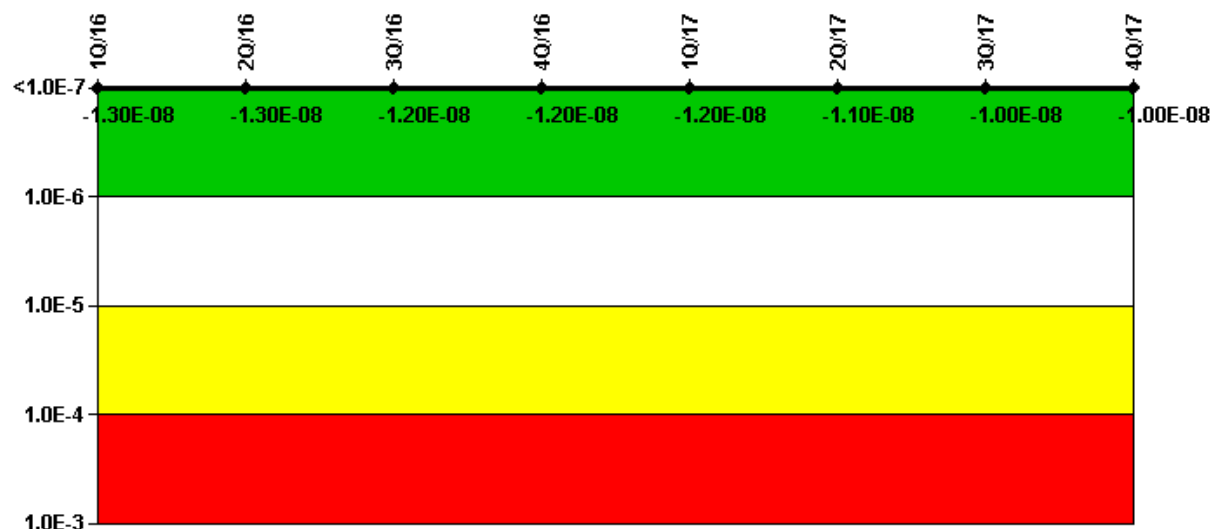
	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-1.61E-08	-1.58E-08	-1.58E-08	-1.25E-08	-1.25E-08	-1.25E-08	-1.26E-08	-1.32E-08
URI (ΔCDF)	-1.03E-07	-1.03E-07	-1.03E-07	-1.02E-07	-1.02E-07	-1.02E-07	-6.77E-08	-6.55E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-07	-1.20E-07	-1.20E-07	-1.10E-07	-1.10E-07	-1.10E-07	-8.00E-08	-7.90E-08

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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

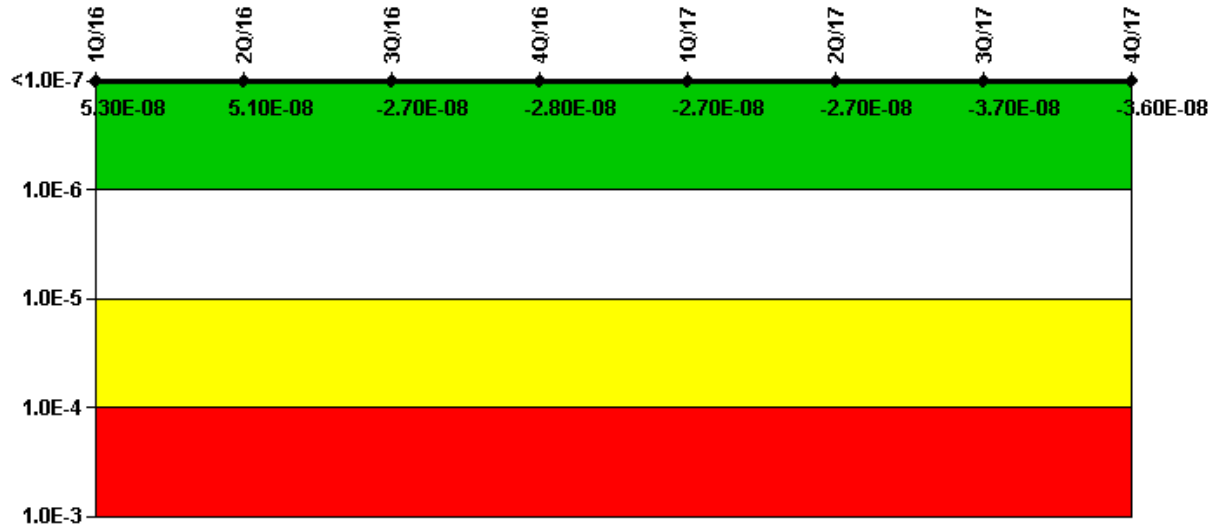
Mitigating Systems Performance Index, High Pressure Injection System

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-3.84E-11	-5.44E-11	1.06E-10	1.10E-10	1.07E-10	1.05E-10	7.66E-10	8.20E-10
URI (ΔCDF)	-1.33E-08	-1.31E-08	-1.26E-08	-1.25E-08	-1.21E-08	-1.14E-08	-1.09E-08	-1.08E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-08	-1.30E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.10E-08	-1.00E-08	-1.00E-08



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

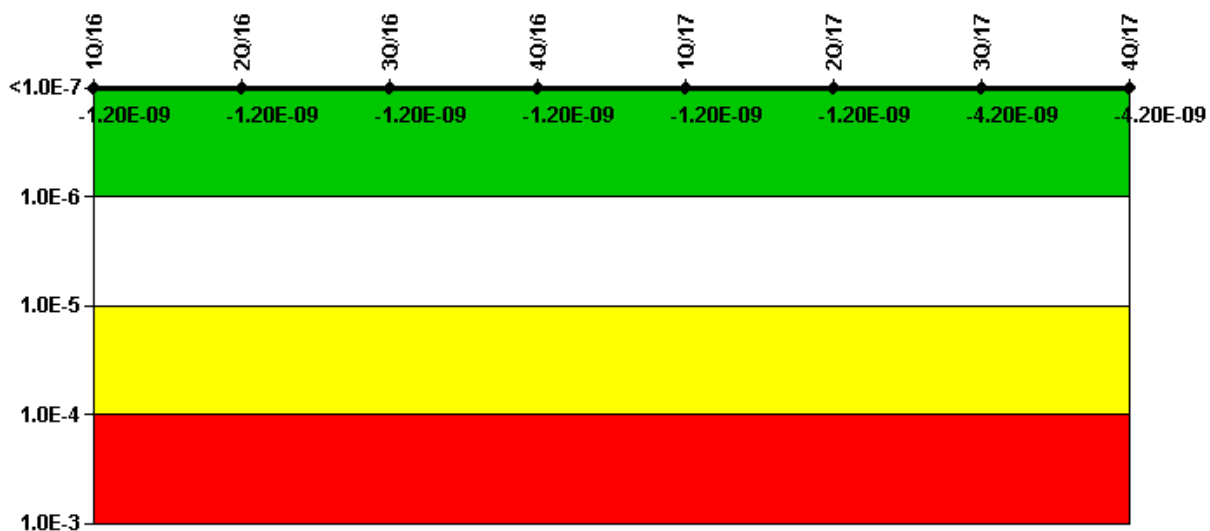
Mitigating Systems Performance Index, Heat Removal System

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-3.24E-09	-4.84E-09	-6.13E-09	-6.13E-09	-6.13E-09	-6.13E-09	-8.87E-09	-8.87E-09
URI (ΔCDF)	5.59E-08	5.59E-08	-2.09E-08	-2.18E-08	-2.14E-08	-2.09E-08	-2.81E-08	-2.68E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.30E-08	5.10E-08	-2.70E-08	-2.80E-08	-2.70E-08	-2.70E-08	-3.70E-08	-3.60E-08



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

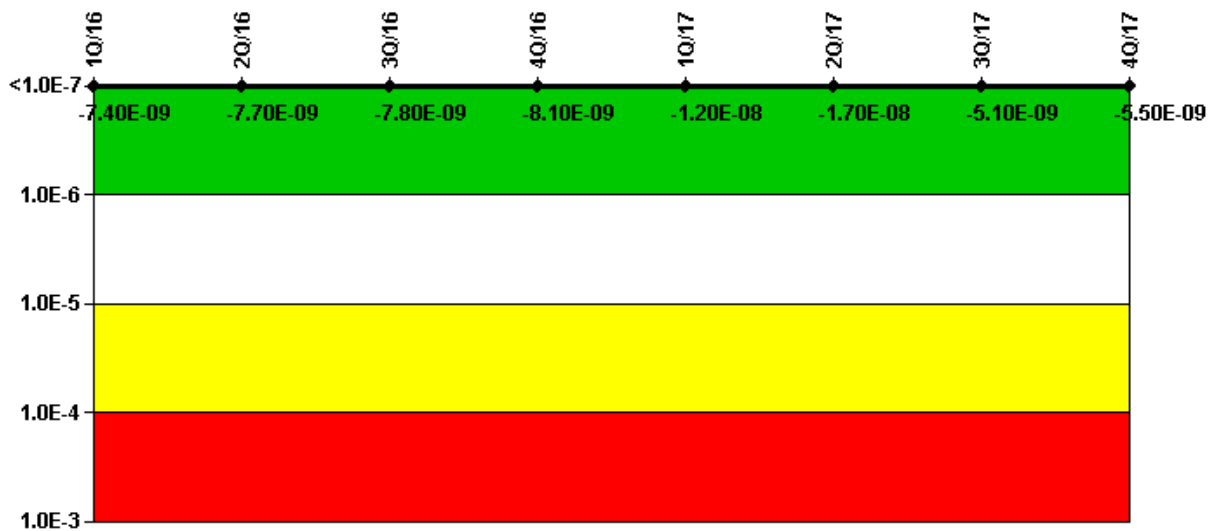
	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (Δ CDF)	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-2.70E-10	-1.23E-09	-1.23E-09
URI (Δ CDF)	-9.37E-10	-9.27E-10	-9.37E-10	-9.08E-10	-9.08E-10	-9.10E-10	-2.99E-09	-2.99E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-1.20E-09	-4.20E-09	-4.20E-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

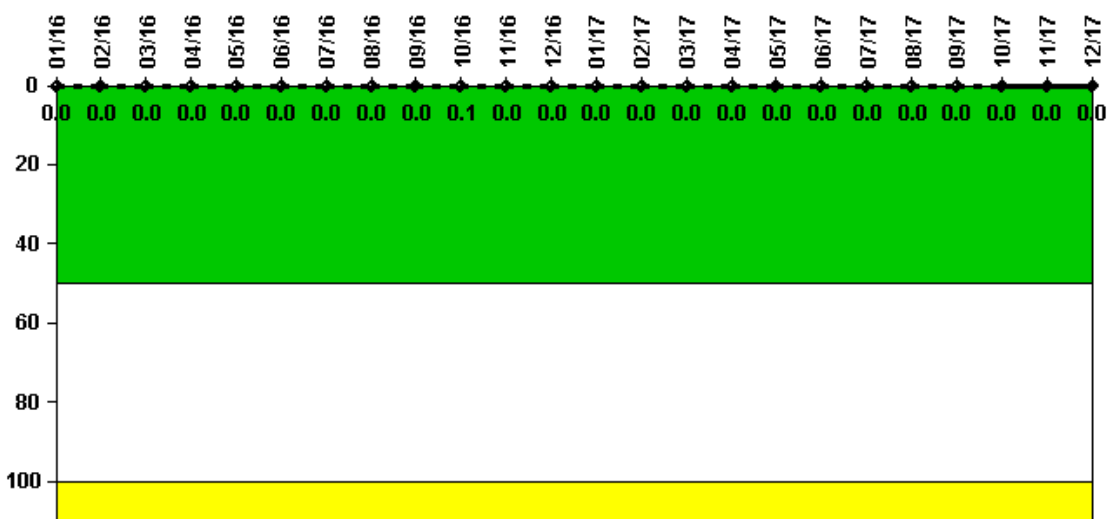
	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-1.50E-09	-1.50E-09	-1.46E-09	-1.46E-09	-1.48E-09	-1.61E-09	-3.02E-09	-3.04E-09
URI (ΔCDF)	-5.95E-09	-6.25E-09	-6.29E-09	-6.63E-09	-1.07E-08	-1.51E-08	-2.10E-09	-2.43E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.40E-09	-7.70E-09	-7.80E-09	-8.10E-09	-1.20E-08	-1.70E-08	-5.10E-09	-5.50E-09

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Licensee Comments:

3Q/17: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

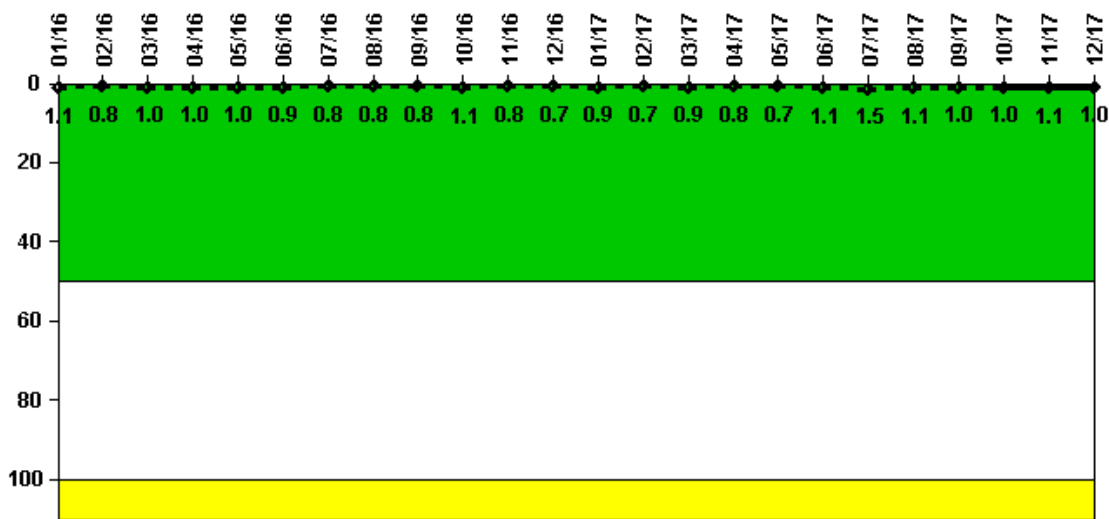
Reactor Coolant System Activity	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum activity	0.000063	0.000186	0.000231	0.000219	0.000267	0.000345	0.000363	0.000241	0.000314	0.000527	0.000271	0.000243
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0.1	0	0

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	0.000181	0.000186	0.000237	0.000292	0.000275	0.000127	0.000136	0.000147	0.000146	0.000147	0.000150	0.000166
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

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Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum leakage	0.110	0.080	0.100	0.100	0.100	0.090	0.080	0.080	0.080	0.110	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

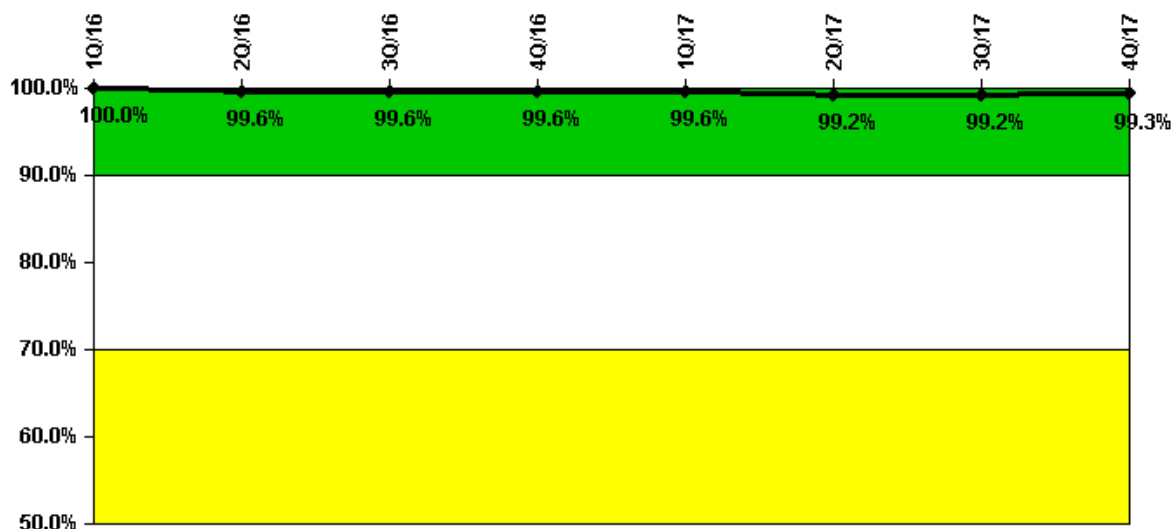
Indicator value	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Indicator value	1.1	0.8	1.0	1.0	1.0	0.9	0.8	0.8	0.8	1.1	0.8	0.7
Reactor Coolant System Leakage	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17	10/17	11/17	12/17
Maximum leakage	0.090	0.070	0.090	0.080	0.070	0.110	0.150	0.110	0.100	0.100	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	0.9	0.7	0.9	0.8	0.7	1.1	1.5	1.1	1.0	1.0	1.1	1.0
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Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

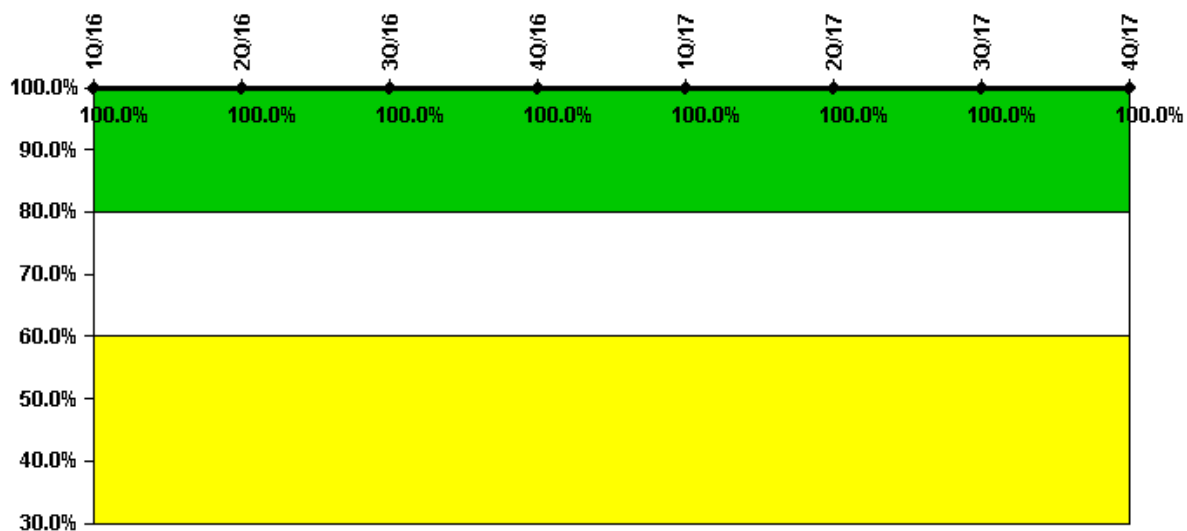
Drill/Exercise Performance	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful opportunities	39.0	45.0	21.0	24.0	37.0	33.0	42.0	33.0
Total opportunities	39.0	46.0	21.0	24.0	37.0	34.0	42.0	33.0

Indicator value **100.0% 99.6% 99.6% 99.6% 99.6% 99.2% 99.2% 99.3%**

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Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

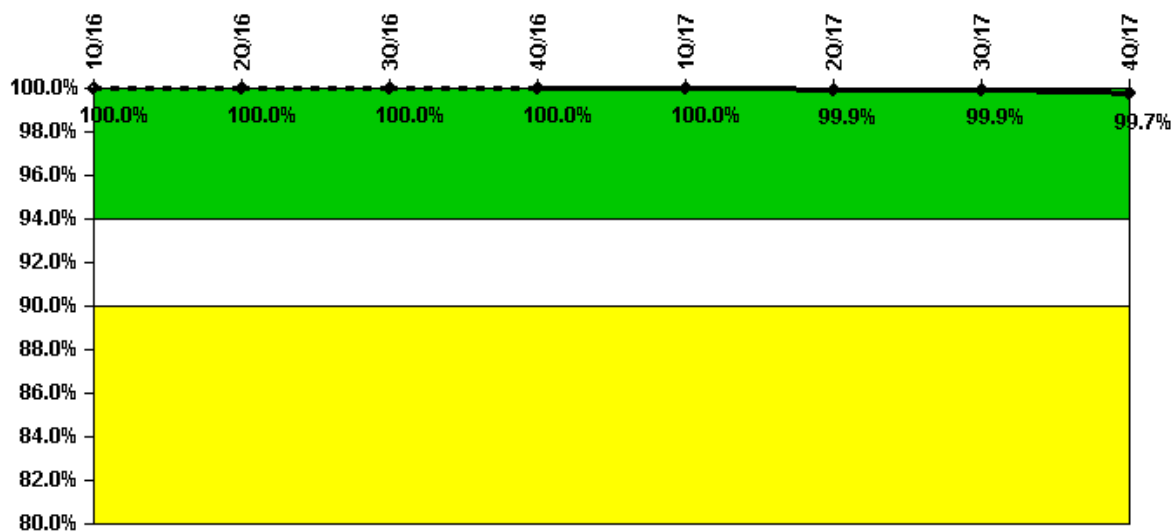
ERO Drill Participation	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Participating Key personnel	175.0	176.0	183.0	168.0	156.0	147.0	149.0	147.0
Total Key personnel	175.0	176.0	183.0	168.0	156.0	147.0	149.0	147.0

Indicator value **100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%**

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Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

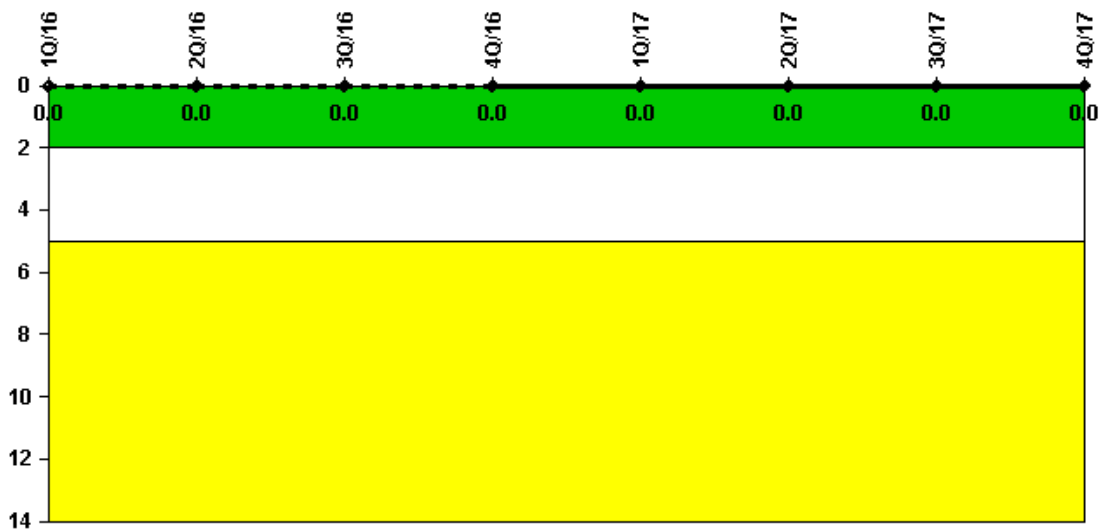
Alert & Notification System	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful siren-tests	568	497	568	426	567	496	568	493
Total sirens-tests	568	497	568	426	568	497	568	497

Indicator value **100.0% 100.0% 100.0% 100.0% 100.0% 99.9% 99.9% 99.7%**

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Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

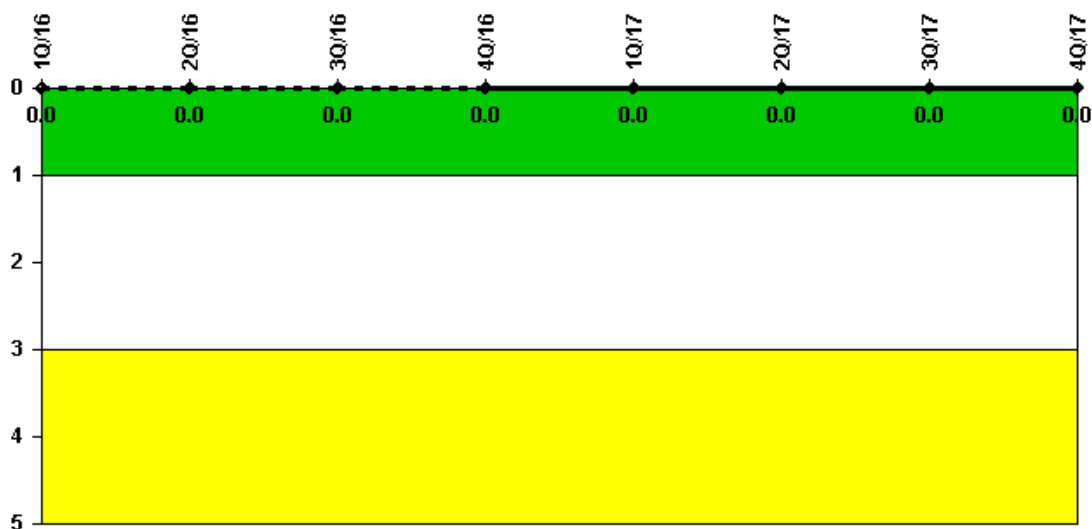
Occupational Exposure Control Effectiveness 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17 4Q/17

High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	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 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17 4Q/17

RETS/ODCM occurrences 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

▲ TOP

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: February 1, 2018

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