

Palisades

1Q/2000 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned scrams	0	0	0	0	0
Critical hours	2002.5	1943.7	2208.0	872.7	1619.1
Indicator value	1.0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



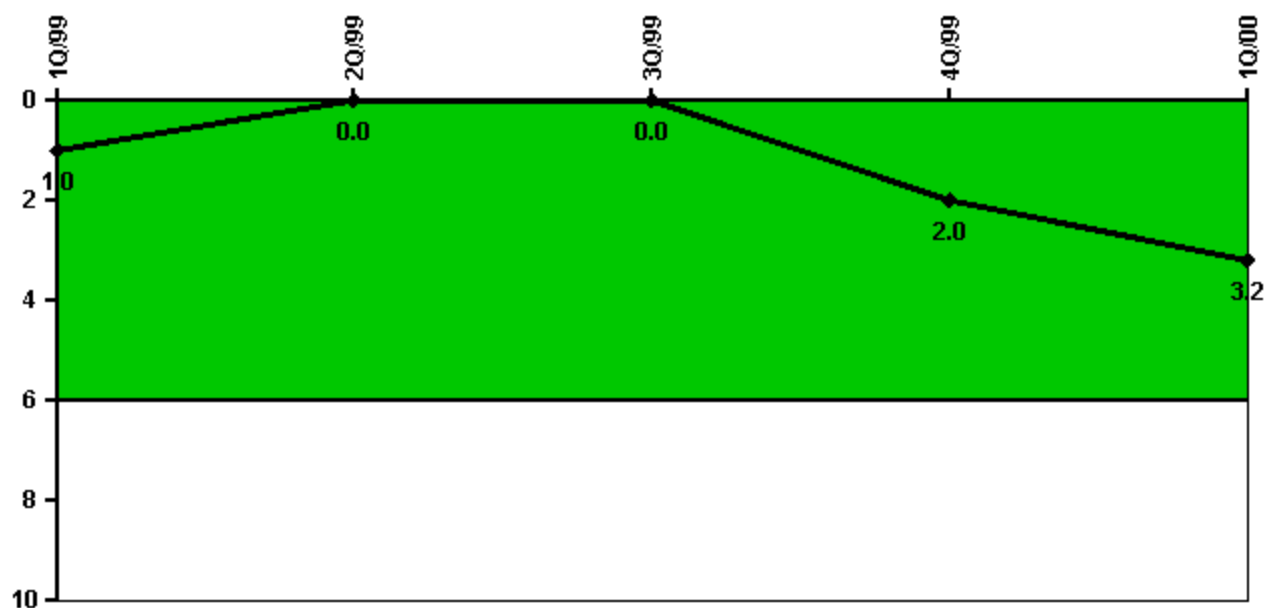
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



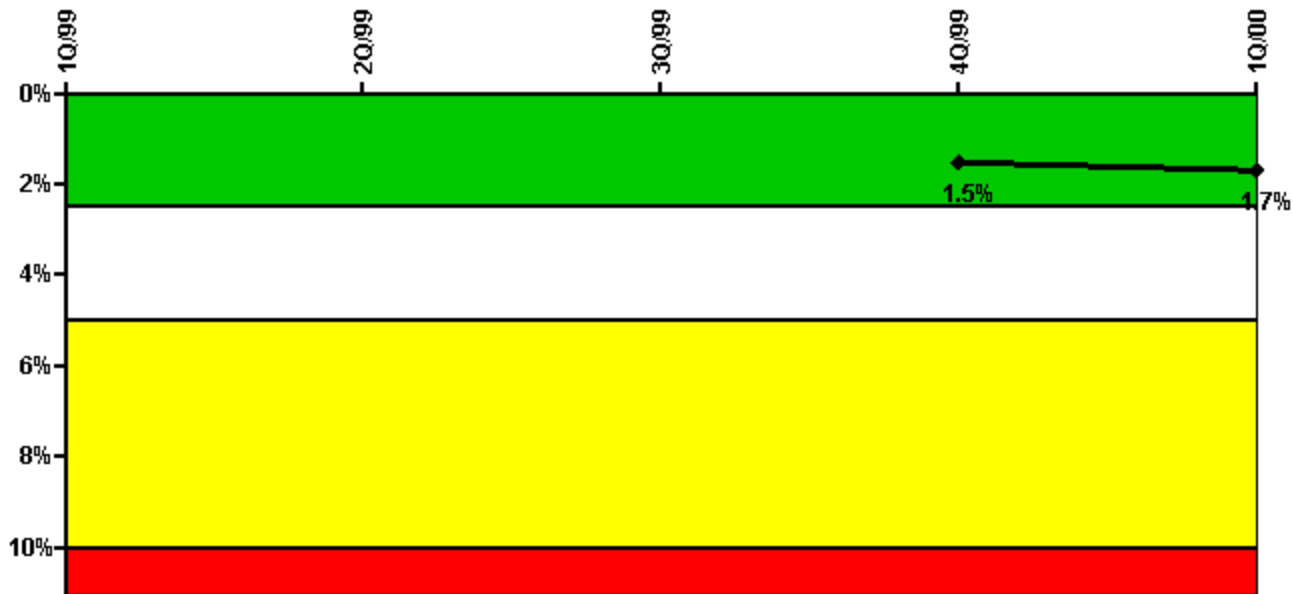
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned power changes	0	0	0	2.0	1.0
Critical hours	2002.5	1943.7	2208.0	872.7	1619.1
Indicator value	1.0	0	0	2.0	3.2

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



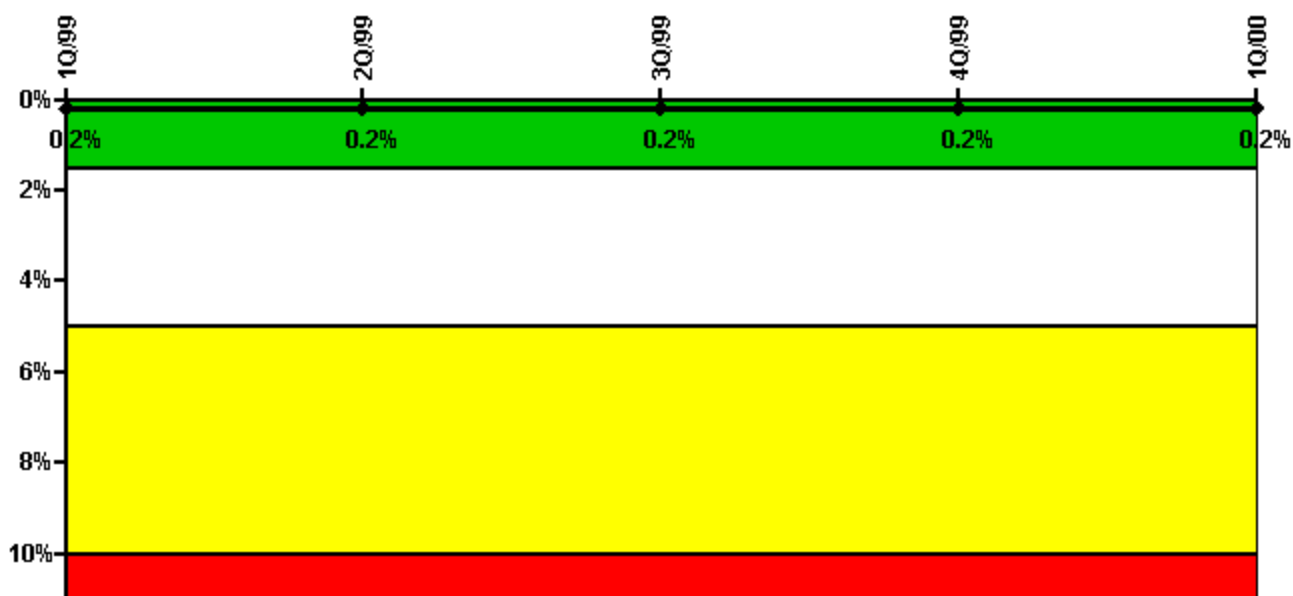
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	22.33	0.97	0.71	42.30	54.12
Unplanned unavailable hours	12.65	0	0	34.00	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	21.88	1.35	35.23	0.40	35.05
Unplanned unavailable hours	0	109.92	0	0	0
Fault exposure hours	0	214.00	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				1.5%	1.7%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



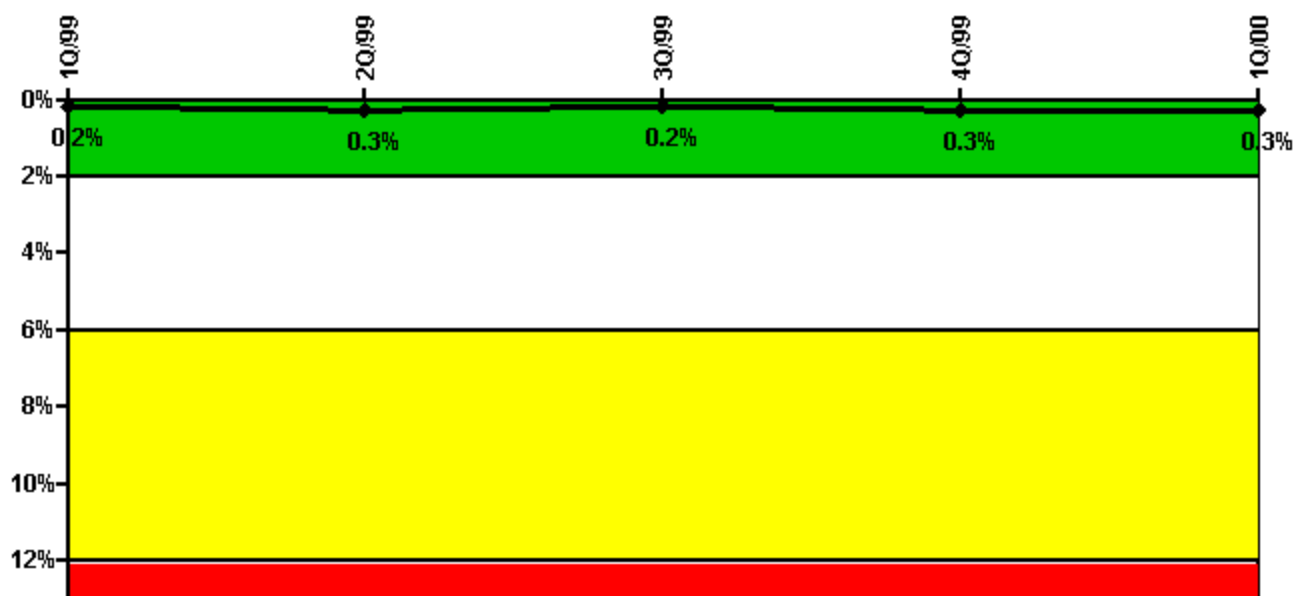
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0.85	0	2.10	2.60	2.10
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	2002.48	1943.68	2208.00	872.68	1619.10
Train 2					
Planned unavailable hours	0	28.28	1.70	0	3.26
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	2002.48	1943.68	2208.00	872.68	1619.10
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



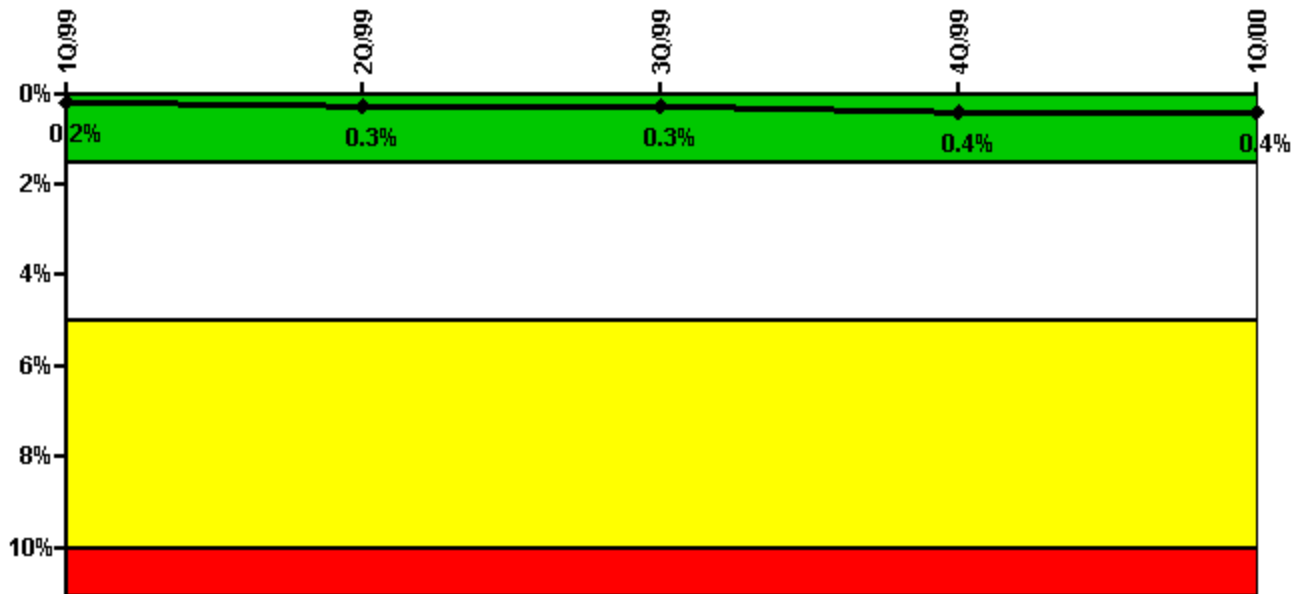
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	6.80	0	0	3.22	0
Unplanned unavailable hours	0	0	1.93	0	2.92
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2002.48	1943.68	2208.00	872.68	1619.10
Train 2					
Planned unavailable hours	0	13.00	0	3.27	0
Unplanned unavailable hours	0	0	0	22.97	2.92
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2002.48	1943.68	2208.00	872.68	1619.10
Train 3					
Planned unavailable hours	2.70	1.82	8.05	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	2002.48	1943.68	2208.00	872.68	1619.10
Indicator value	0.2%	0.3%	0.2%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

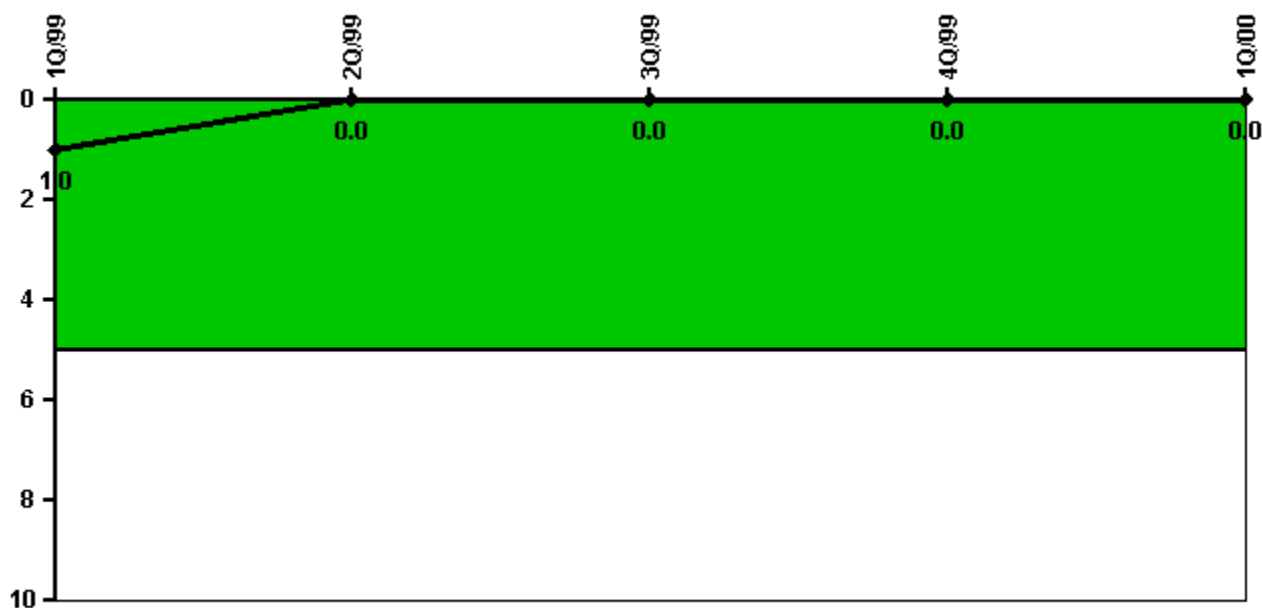
Notes

Safety System Unavailability, Residual Heat Removal System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	8.28	19.95	13.60	0	10.40
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	57.74	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	3.30	21.52	5.63	2.82	2.83
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Train 3					
Planned unavailable hours	8.28	19.95	13.60	0	10.40
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	57.74	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Train 4					
Planned unavailable hours	3.30	21.52	5.63	2.82	2.83
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value	0.2%	0.3%	0.3%	0.4%	0.4%

Licensee Comments:

1Q/00: Based on final determination for RHR reporting for CE Plants, data for Trains 3 and 4 prior to 2Q00 is the same as previously reported for Trains 1 and 2. Data for 2Q00 will be actual for all four Trains.

Safety System Functional Failures (PWR)



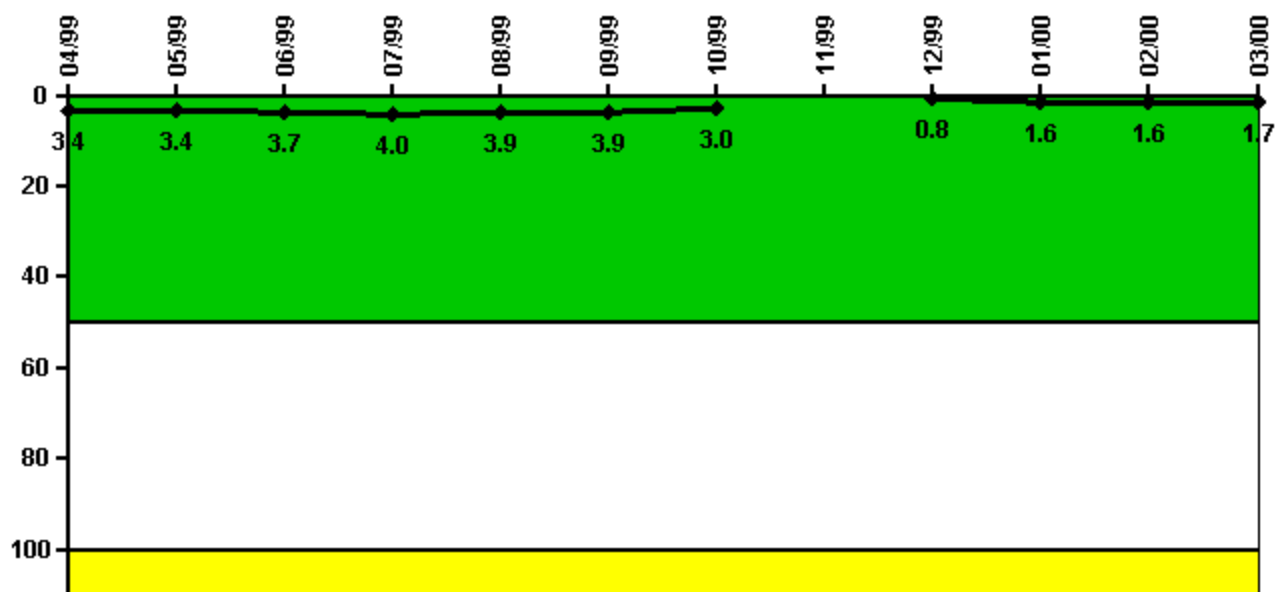
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



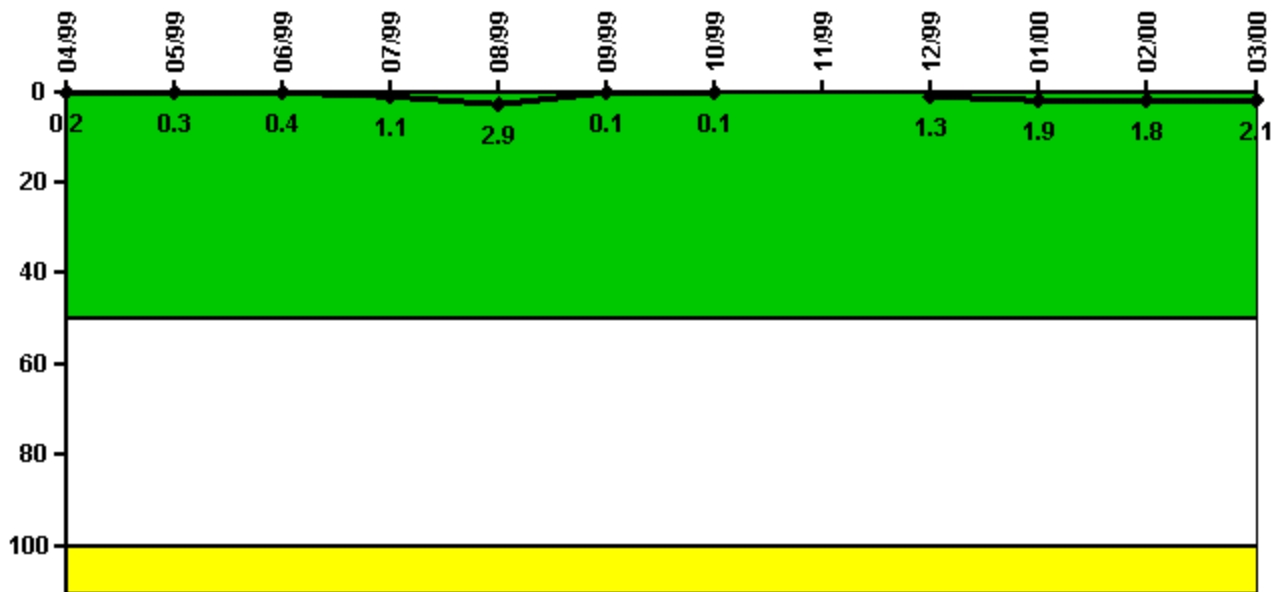
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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	0.034000	0.034000	0.037000	0.040000	0.039000	0.039000	0.030000	N/A	0.008000	0.015700	0.015800	0.016900
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	N/A	1.0	1.0	1.0	1.0
Indicator value	3.4	3.4	3.7	4.0	3.9	3.9	3.0	N/A	0.8	1.6	1.6	1.7

Licensee Comments: none

Reactor Coolant System Leakage



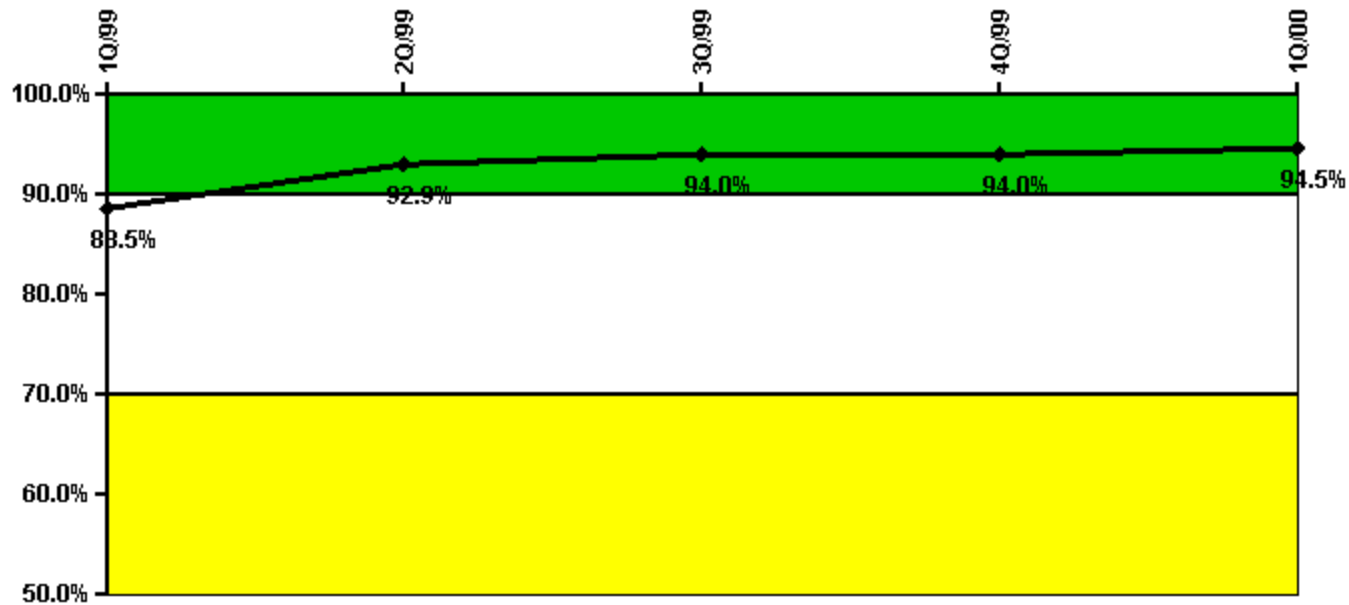
Thresholds: White > 50.0 Yellow > 100.0

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	0.017	0.031	0.037	0.109	0.293	0.013	0.010	N/A	0.127	0.187	0.177	0.214
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	N/A	10.0	10.0	10.0	10.0
Indicator value	0.2	0.3	0.4	1.1	2.9	0.1	0.1	N/A	1.3	1.9	1.8	2.1

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

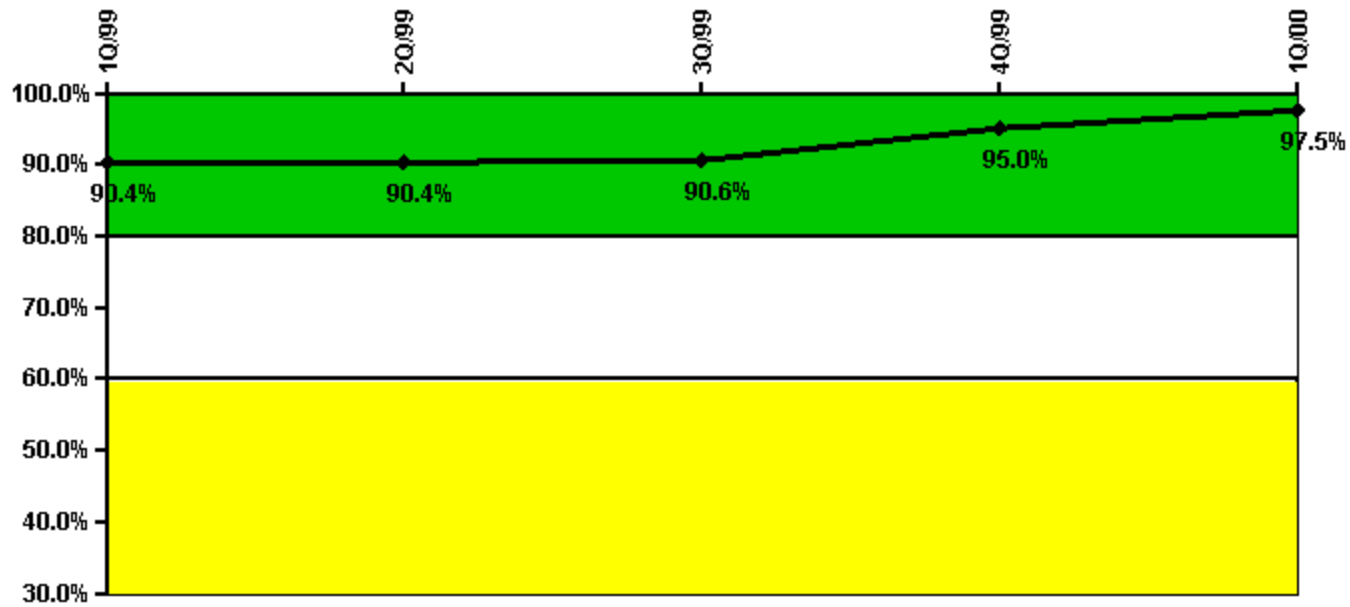
Notes

Drill/Exercise Performance	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful opportunities	8.0	16.0	70.0	0	14.0
Total opportunities	8.0	16.0	74.0	0	14.0
Indicator value	88.5%	92.9%	94.0%	94.0%	94.5%

Licensee Comments:

1Q/00: Self-assessment disclosed that three opportunities/successes had been credited for other than initial classification/notifications. The revised number reflects the reduction (17 to 14). This has negligible effect on the PI value.

ERO Drill Participation



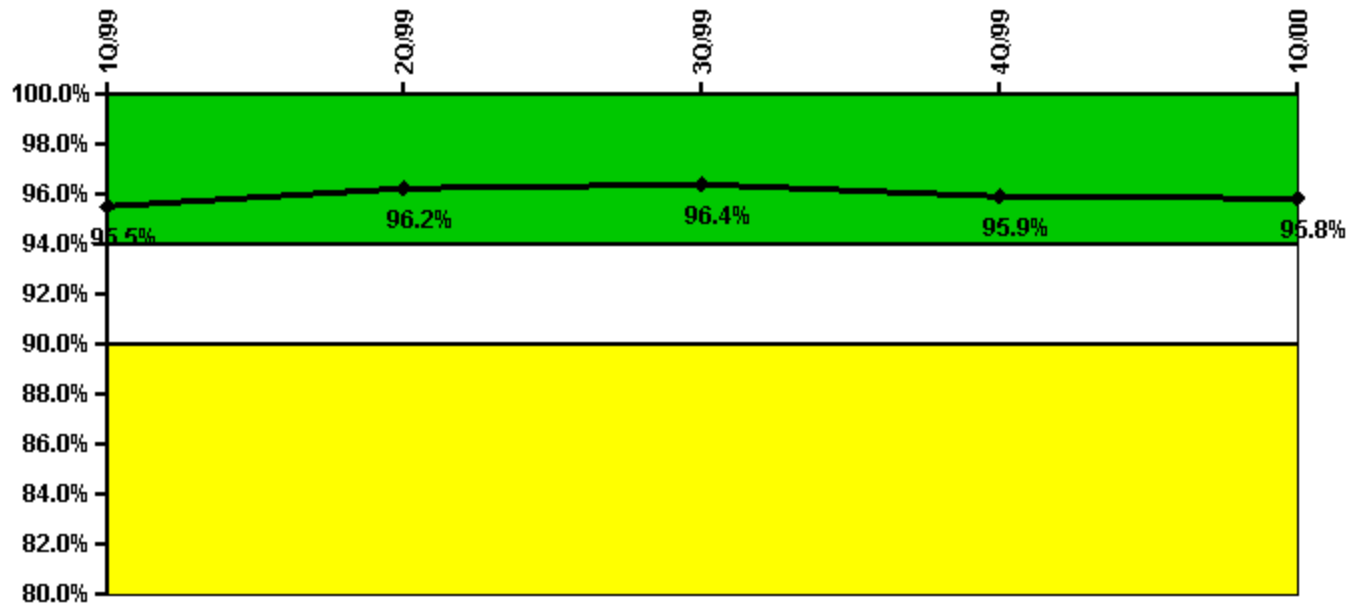
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Participating Key personnel	66.0	66.0	77.0	76.0	79.0
Total Key personnel	73.0	73.0	85.0	80.0	81.0
Indicator value	90.4%	90.4%	90.6%	95.0%	97.5%

Licensee Comments: none

Alert & Notification System



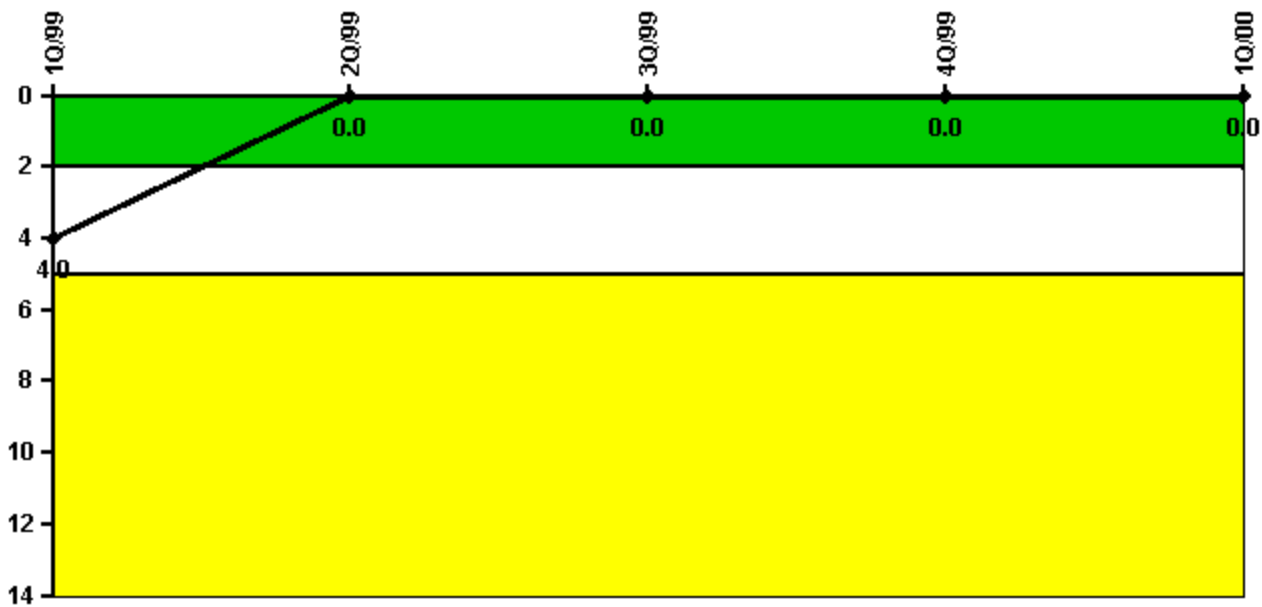
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful siren-tests	207	213	213	211	203
Total sirens-tests	216	220	225	219	213
Indicator value	95.5%	96.2%	96.4%	95.9%	95.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness

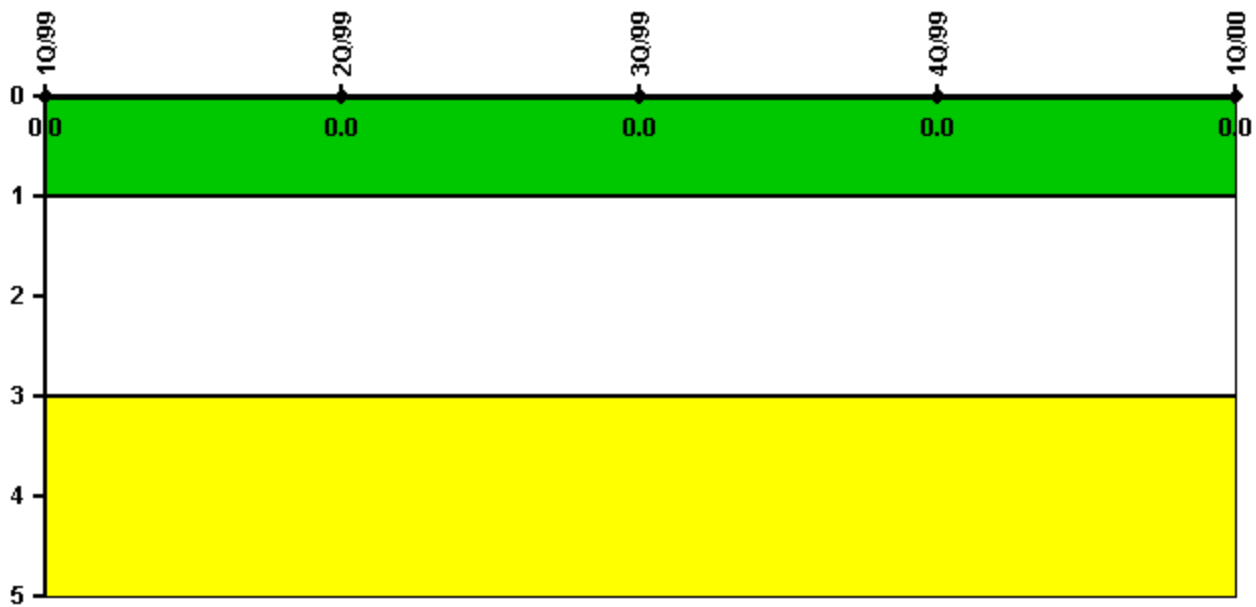


Thresholds: White > 2.0 Yellow > 5.0

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	0	0	0	0
Indicator value	4	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

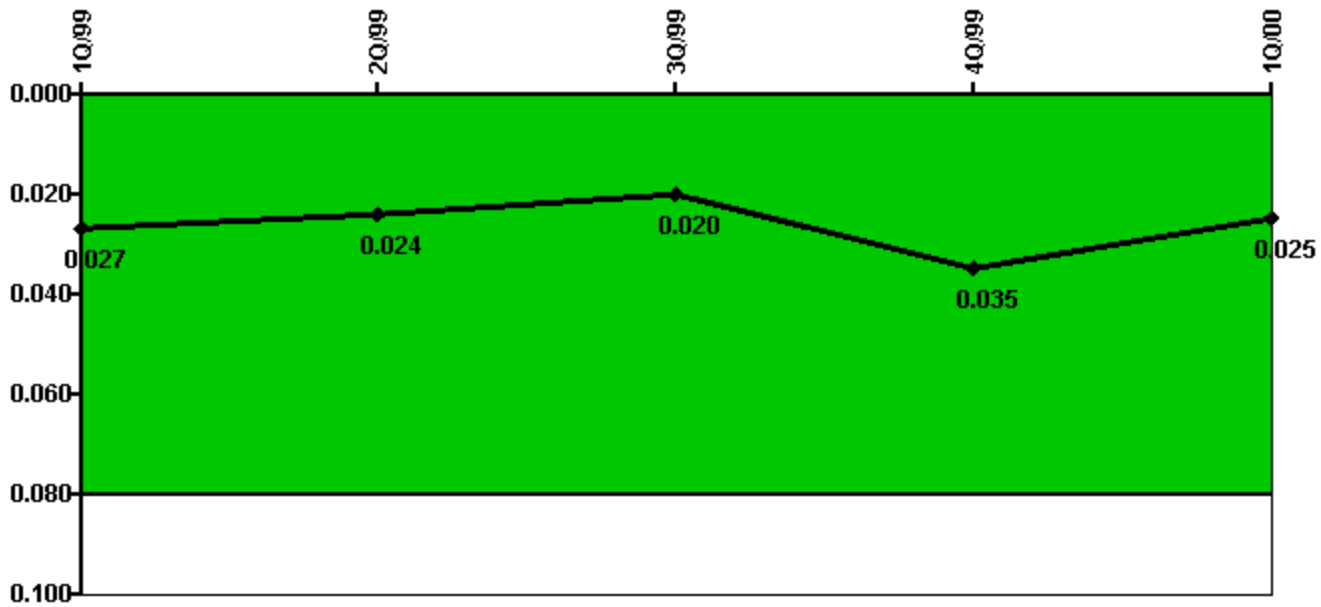
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

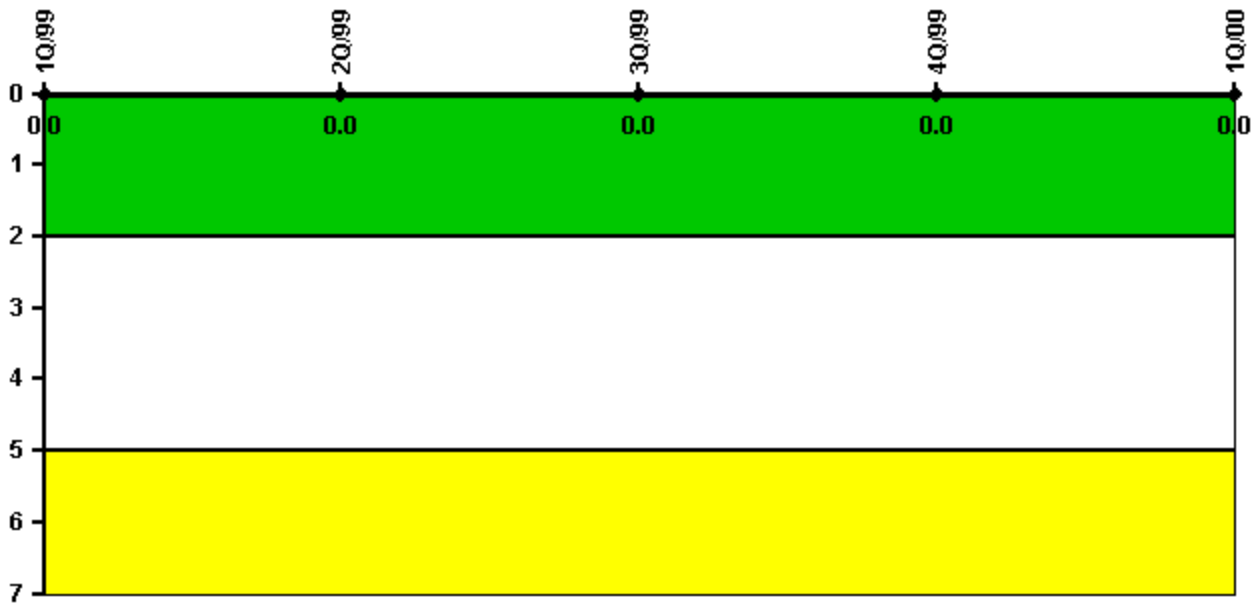
Notes

Protected Area Security Performance Index	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
IDS compensatory hours	305.10	49.10	34.30	499.15	57.81
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.45	1.45	1.45	1.45	1.45
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	0.027	0.024	0.020	0.035	0.025

Licensee Comments:

1Q/00: IDS Compensatory Hours incorrectly reported as CCTV Compensatory Hours in First Quarter report.

Personnel Screening Program



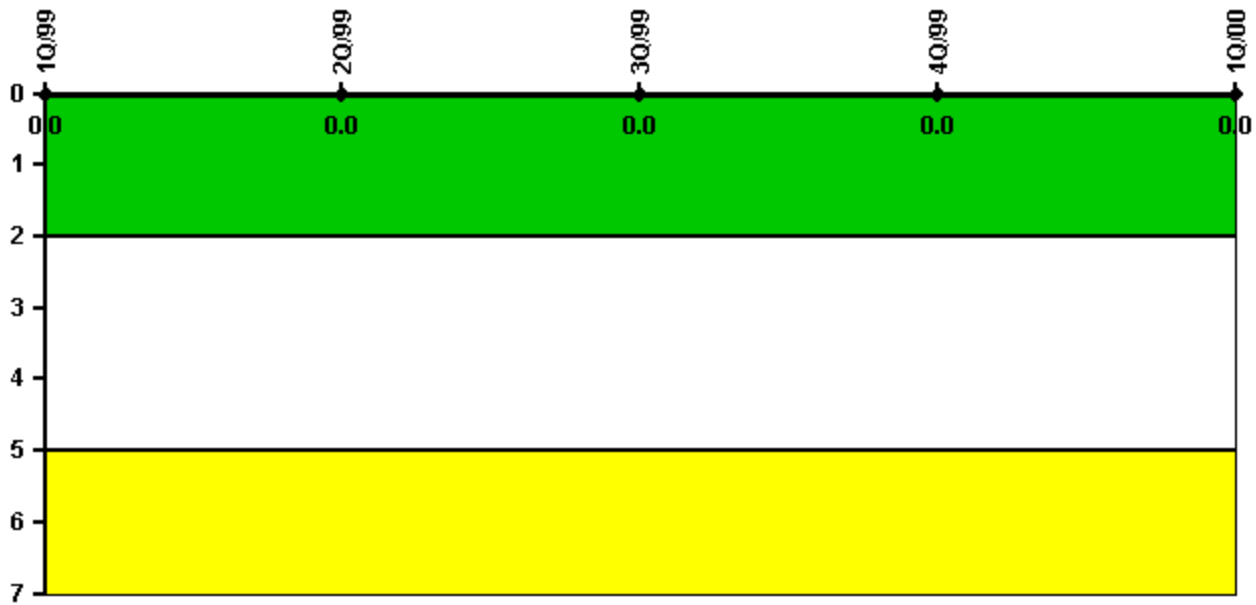
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none



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

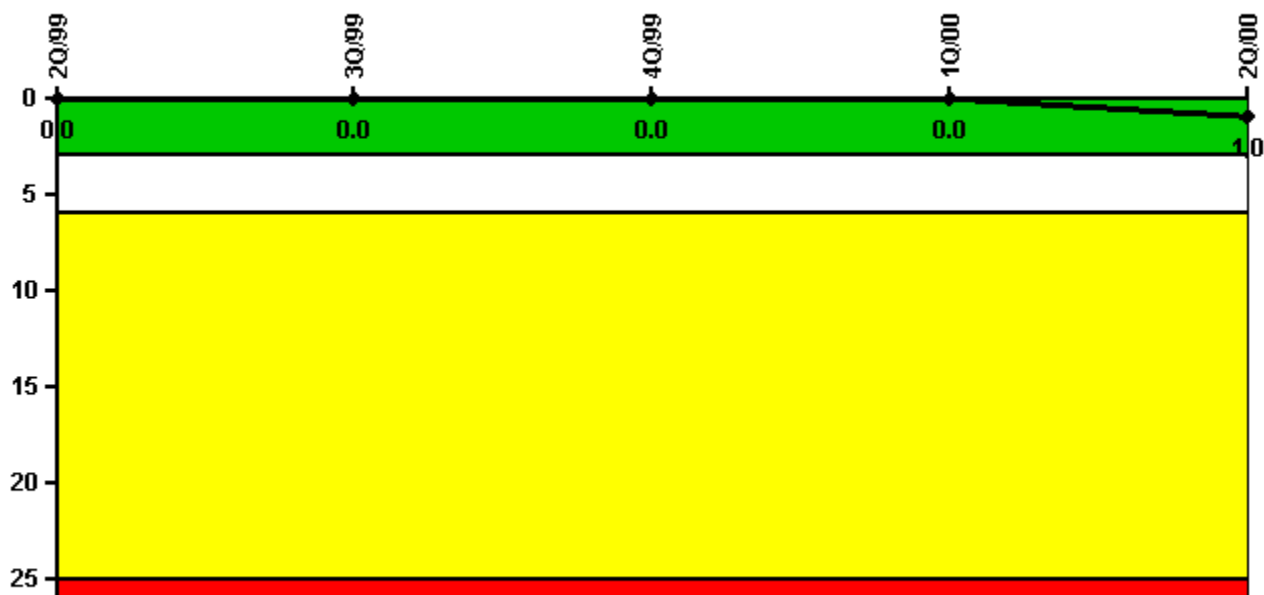
Last Modified: April 1, 2002

Palisades

2Q/2000 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned scrams	0	0	0	0	1.0
Critical hours	1943.7	2208.0	872.7	1619.1	2119.0
Indicator value	0	0	0	0	1.0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



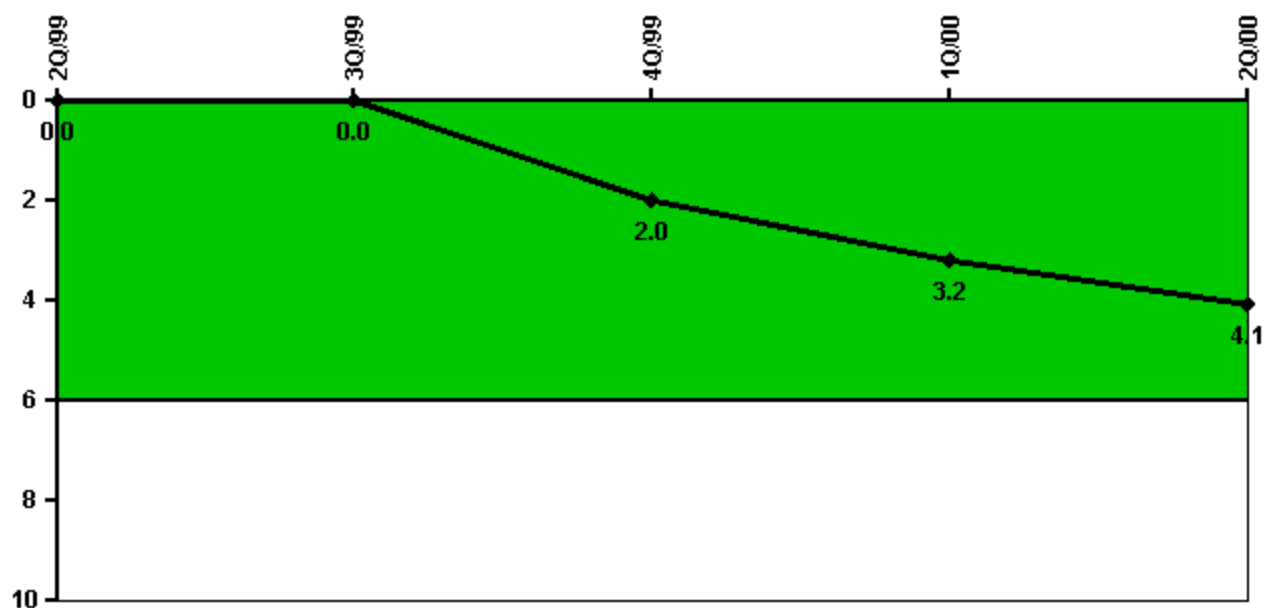
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned power changes	0	0	2.0	1.0	1.0
Critical hours	1943.7	2208.0	872.7	1619.1	2119.0
Indicator value	0	0	2.0	3.2	4.1

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



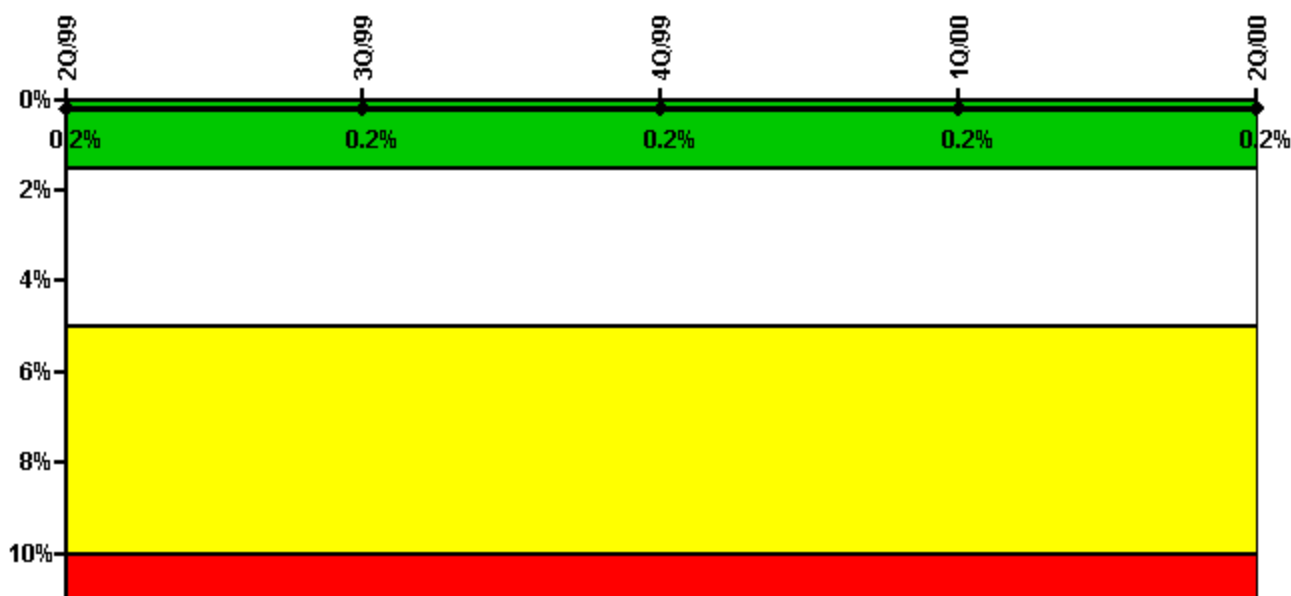
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0.97	0.71	42.30	54.12	0.33
Unplanned unavailable hours	0	0	34.00	0	17.78
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	1.35	35.23	0.40	35.05	0.45
Unplanned unavailable hours	109.92	0	0	0	0
Fault exposure hours	214.00	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			1.5%	1.7%	1.6%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



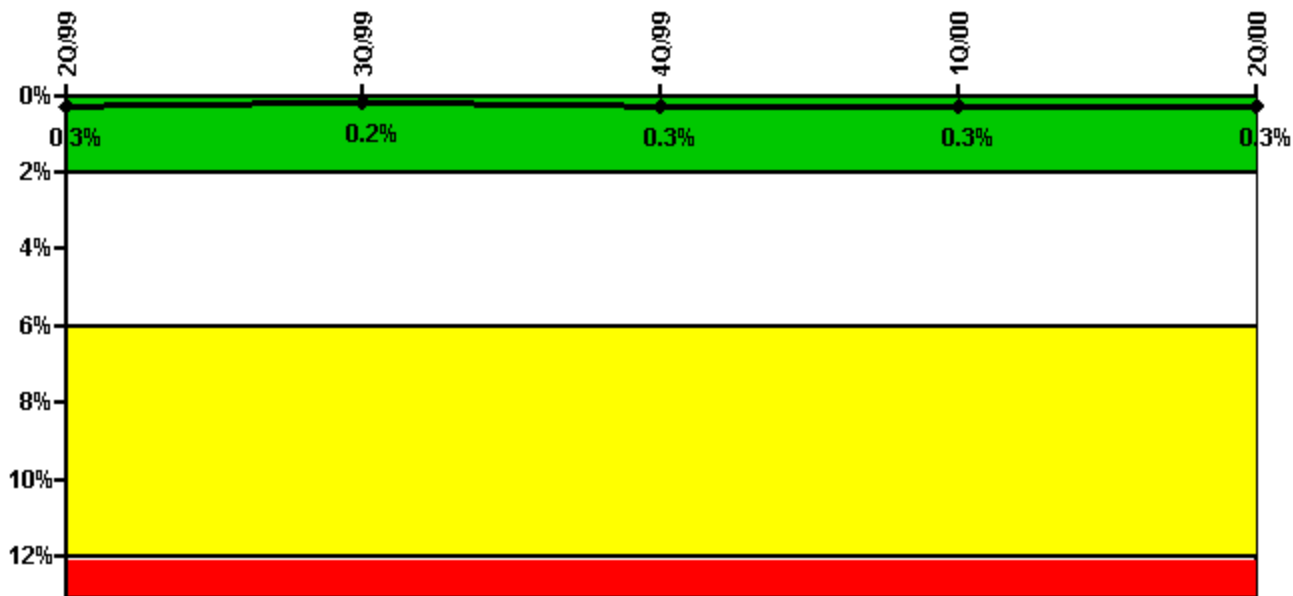
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0	2.10	2.60	2.10	0.33
Unplanned unavailable hours	0	0	0	0	9.89
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1943.68	2208.00	872.68	1619.10	2183.00
Train 2					
Planned unavailable hours	28.28	1.70	0	3.26	7.08
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1943.68	2208.00	872.68	1619.10	2183.00
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



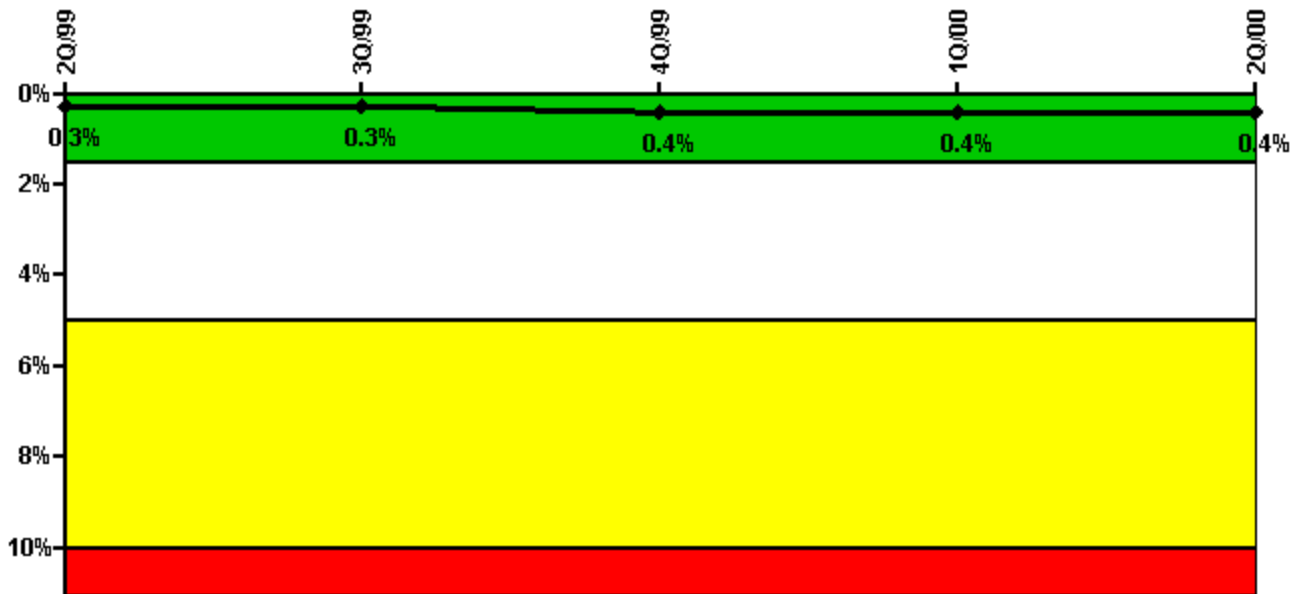
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0	0	3.22	0	0
Unplanned unavailable hours	0	1.93	0	2.92	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1943.68	2208.00	872.68	1619.10	2183.00
Train 2					
Planned unavailable hours	13.00	0	3.27	0	28.35
Unplanned unavailable hours	0	0	22.97	2.92	4.08
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1943.68	2208.00	872.68	1619.10	2183.00
Train 3					
Planned unavailable hours	1.82	8.05	0	0	5.47
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	1943.68	2208.00	872.68	1619.10	2183.00
Indicator value	0.3%	0.2%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	19.95	13.60	0	10.40	0.62
Unplanned unavailable hours	0	0	0	0	0.08
Fault exposure hours	0	0	57.74	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	21.52	5.63	2.82	2.83	0.65
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	2183.00	2208.00	2209.00	2184.00	2183.00
Train 3					
Planned unavailable hours	19.95	13.60	0	10.40	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	57.74	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	0
Train 4					
Planned unavailable hours	21.52	5.63	2.82	2.83	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	0
Indicator value	0.3%	0.3%	0.4%	0.4%	0.4%

Licensee Comments:

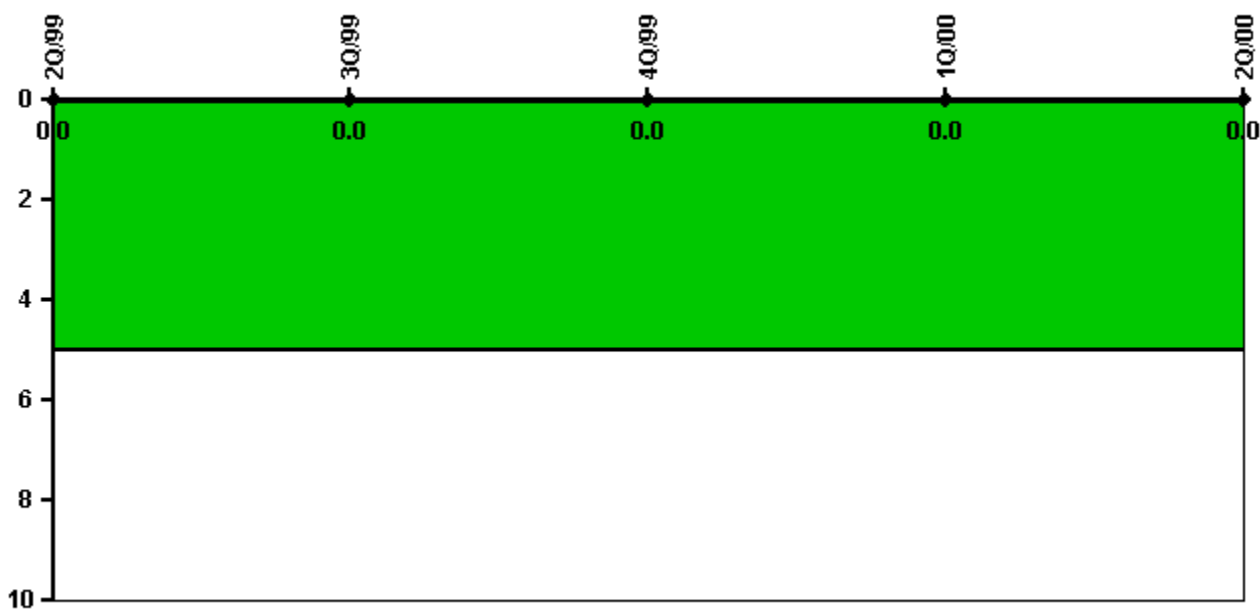
2Q/00: Train 3 and 4 data for periods prior to 2Q2000 use Train 1 and 2 data previously reported. 2Q2000 data for all Trains is actual.

2Q/00: Train 3 and 4 data for periods prior to 2Q2000 use Train 1 and 2 data previously reported. 2Q2000 data for all Trains is actual.

2Q/00: Train 3 and 4 data for periods prior to 2Q2000 use Train 1 and 2 data previously reported. 2Q2000 data for all Trains is actual.

1Q/00: Based on final determination for RHR reporting for CE Plants, data for Trains 3 and 4 prior to 2Q00 is the same as previously reported for Trains 1 and 2. Data for 2Q00 will be actual for all four Trains.

Safety System Functional Failures (PWR)



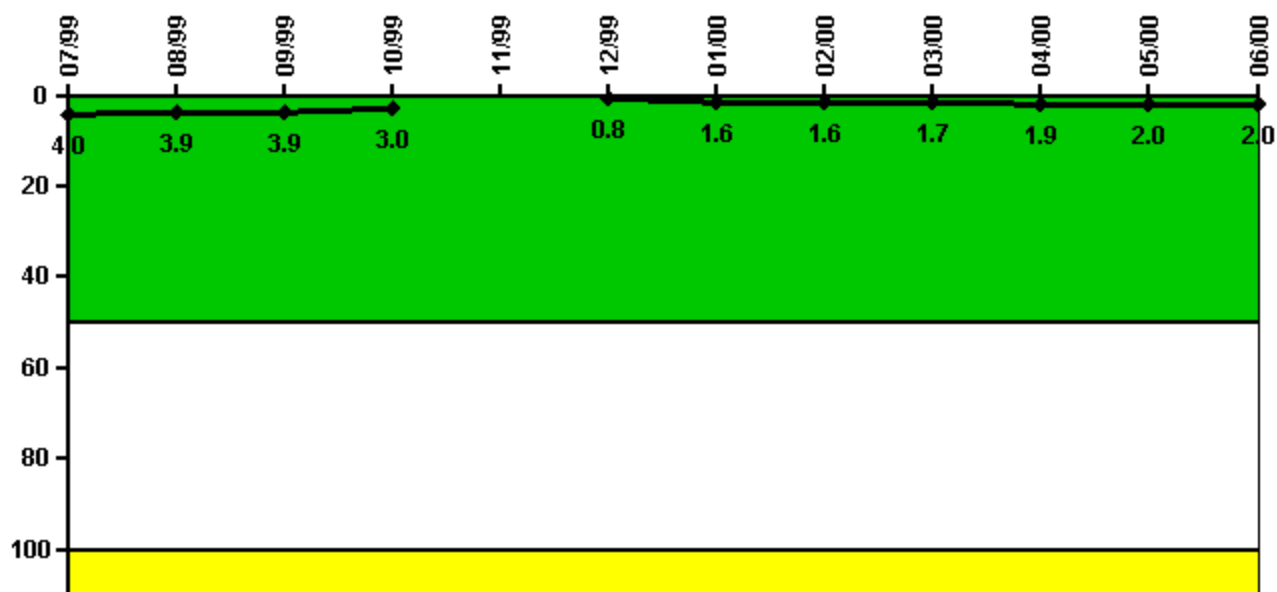
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



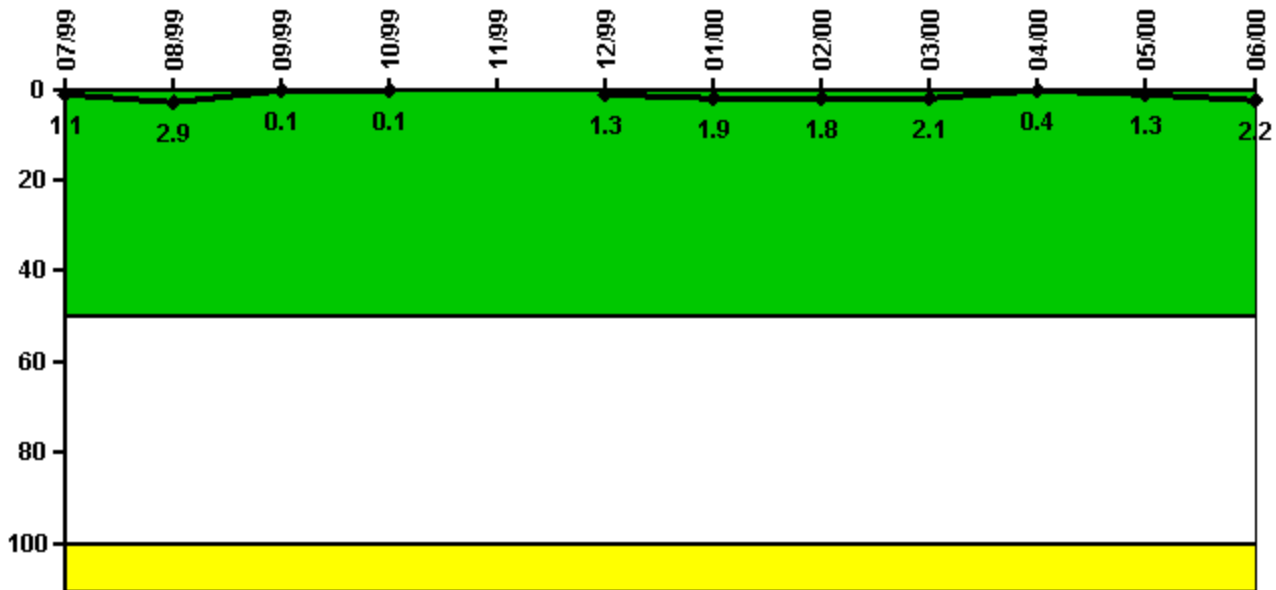
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum activity	0.040000	0.039000	0.039000	0.030000	N/A	0.008000	0.015700	0.015800	0.016900	0.018800	0.019800	0.020400
Technical specification limit	1.0	1.0	1.0	1.0	N/A	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	4.0	3.9	3.9	3.0	N/A	0.8	1.6	1.6	1.7	1.9	2.0	2.0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

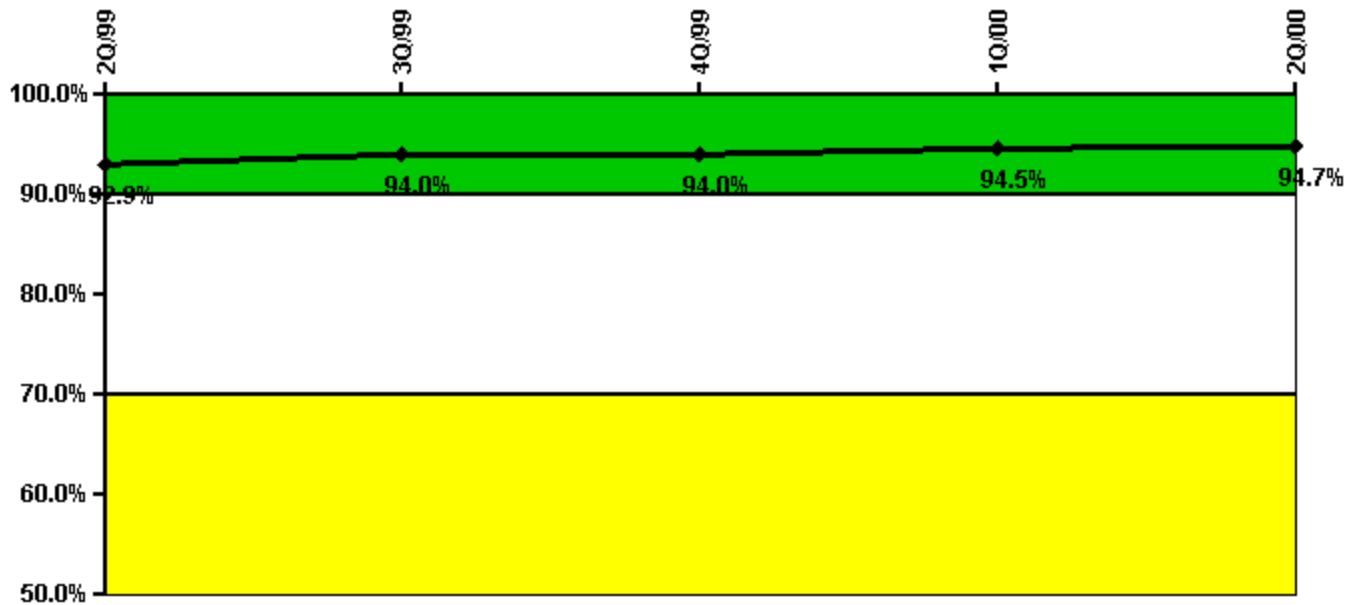
Notes

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	0.109	0.293	0.013	0.010	N/A	0.127	0.187	0.177	0.214	0.041	0.128	0.216
Technical specification limit	10.0	10.0	10.0	10.0	N/A	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.1	2.9	0.1	0.1	N/A	1.3	1.9	1.8	2.1	0.4	1.3	2.2

Licensee Comments:

6/00: RCS Identified Leakage has been, and will be, reported per Palisades Improved Technical Specifications.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

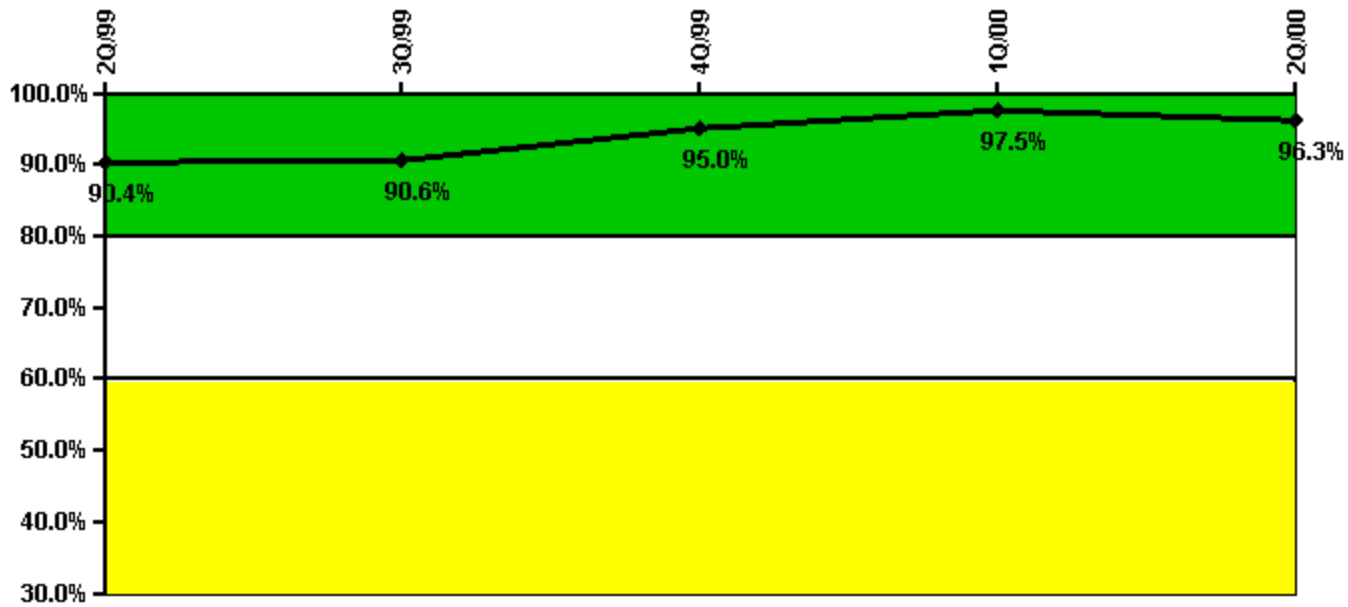
Notes

Drill/Exercise Performance	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful opportunities	16.0	70.0	0	14.0	21.0
Total opportunities	16.0	74.0	0	14.0	22.0
Indicator value	92.9%	94.0%	94.0%	94.5%	94.7%

Licensee Comments:

1Q/00: Self-assessment disclosed that three opportunities/successes had been credited for other than initial classification/notifications. The revised number reflects the reduction (17 to 14). This has negligible effect on the PI value.

ERO Drill Participation



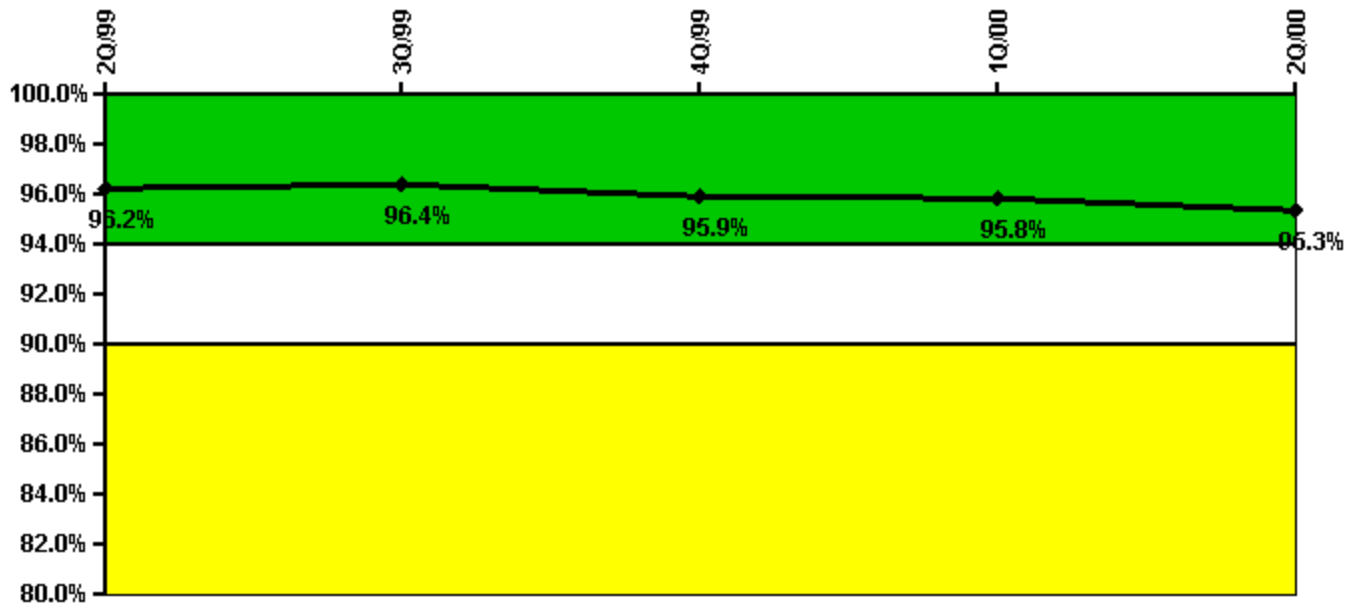
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Participating Key personnel	66.0	77.0	76.0	79.0	78.0
Total Key personnel	73.0	85.0	80.0	81.0	81.0
Indicator value	90.4%	90.6%	95.0%	97.5%	96.3%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

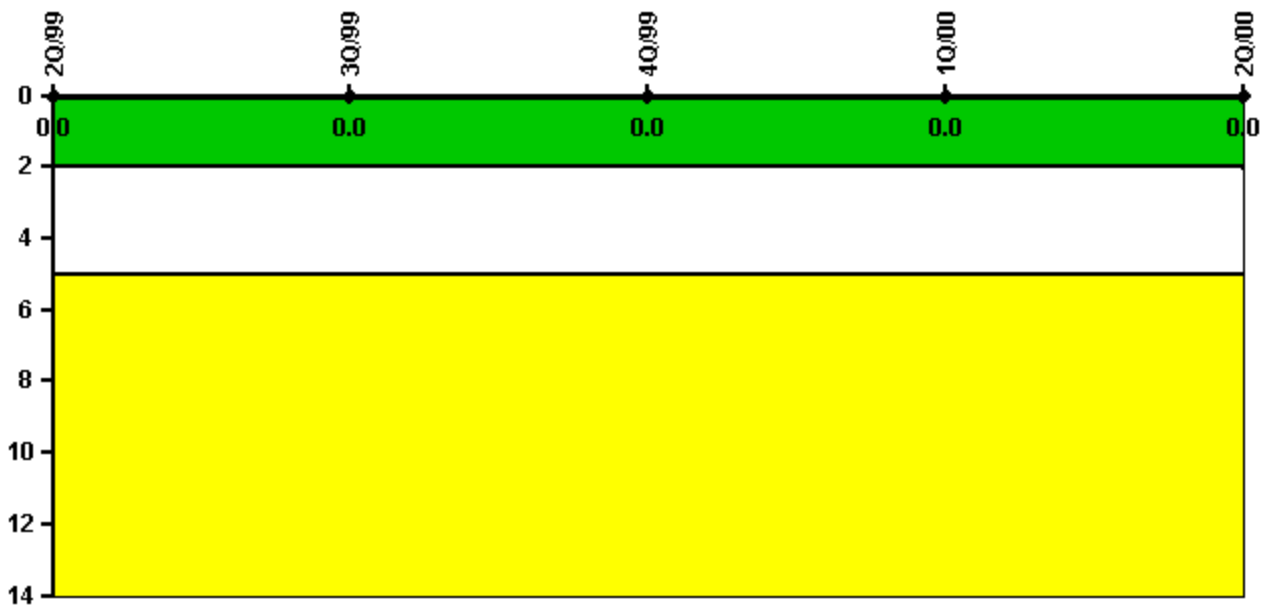
Alert & Notification System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful siren-tests	213	213	211	203	239
Total sirens-tests	220	225	219	213	252
Indicator value	96.2%	96.4%	95.9%	95.8%	95.3%

Licensee Comments:

2Q/00: Data review identified one less successful siren test in this quarter than originally reported.

2Q/00: "Number of sirens tested" adjusted this period to comply with final NEI 99-02, Revision 0, guidance on counting tests. Prior period data not changed.

Occupational Exposure Control Effectiveness



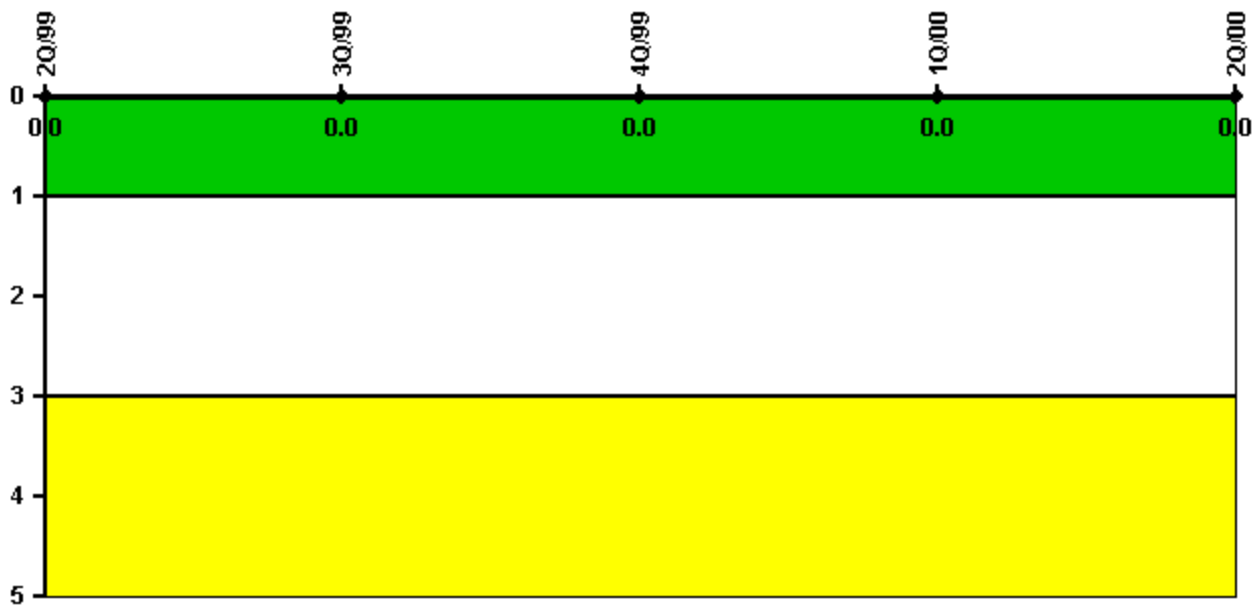
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



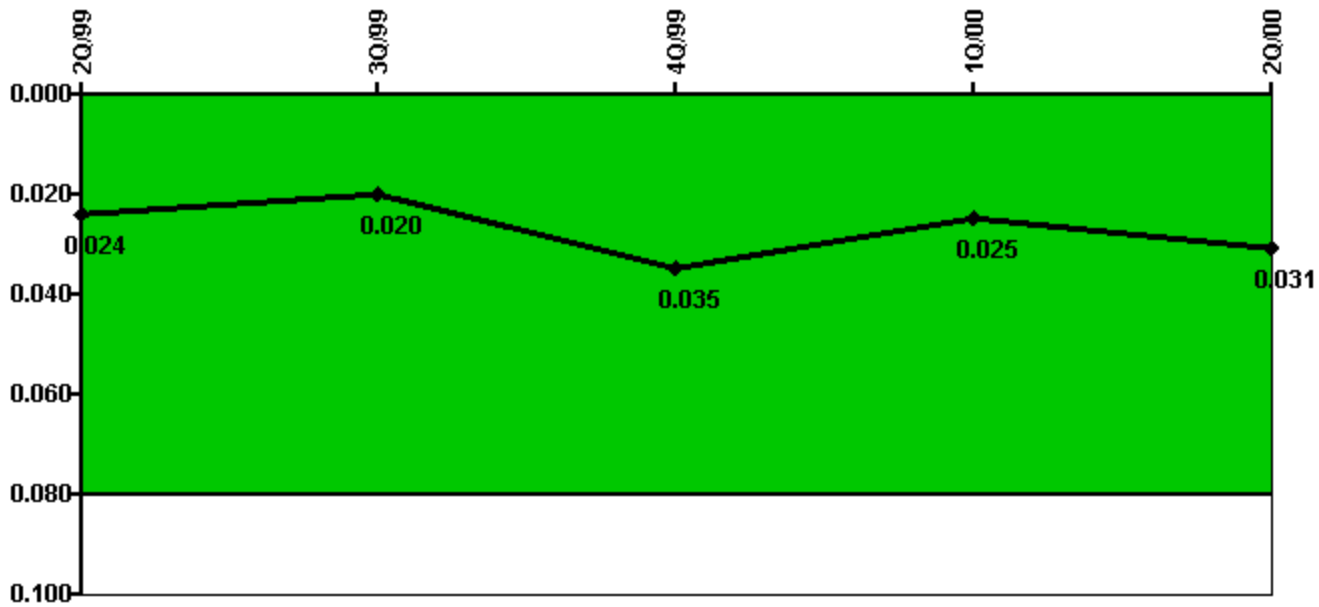
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

Notes

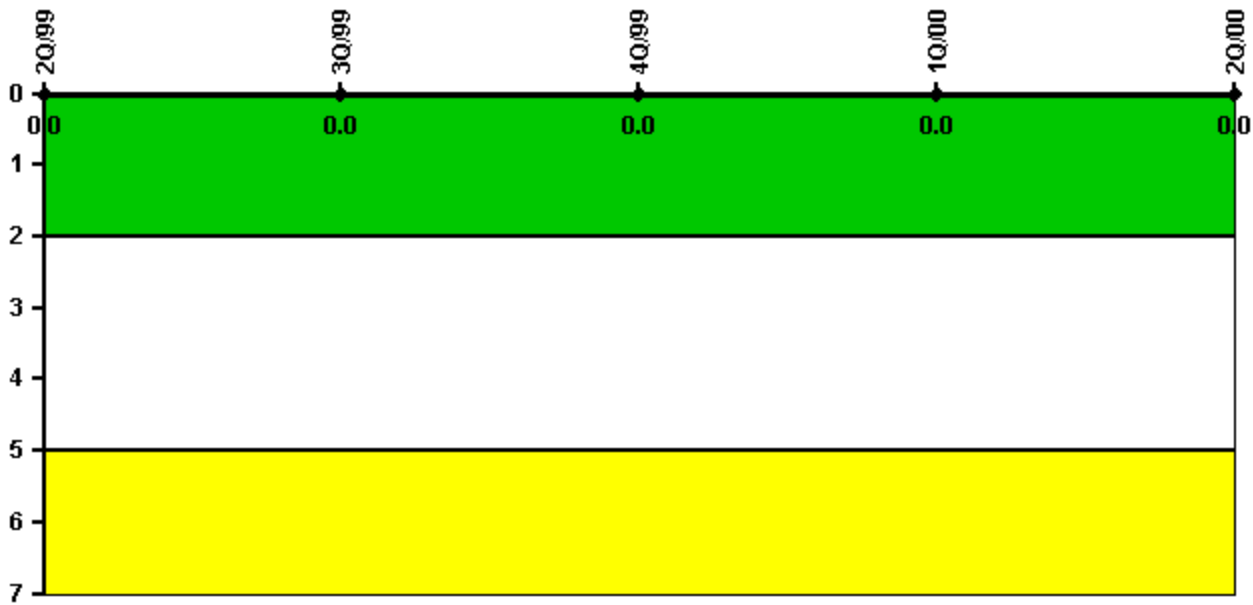
Protected Area Security Performance Index	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
IDS compensatory hours	49.10	34.30	499.15	57.81	201.00
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.45	1.45	1.45	1.45	1.45
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	0.024	0.020	0.035	0.025	0.031

Licensee Comments:

2Q/00: IDS/CCTV Compensatory Hours for 1Q2000 corrected due to data transposition in 1Q2000 report - no effect on PI.

1Q/00: IDS Compensatory Hours incorrectly reported as CCTV Compensatory Hours in First Quarter report.

Personnel Screening Program



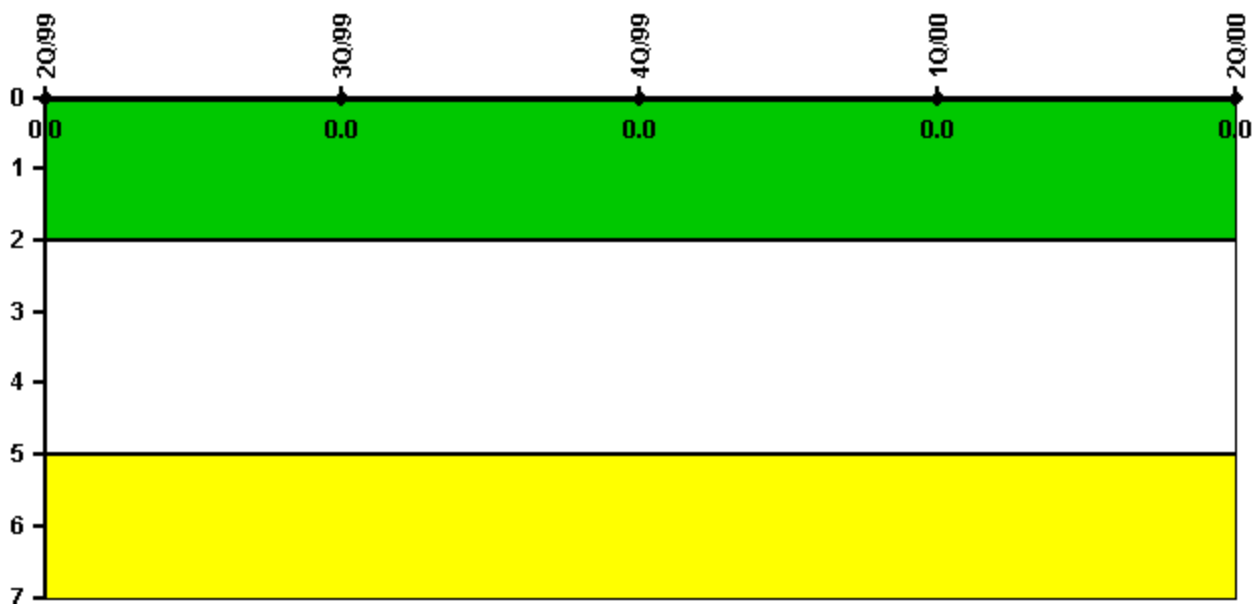
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none



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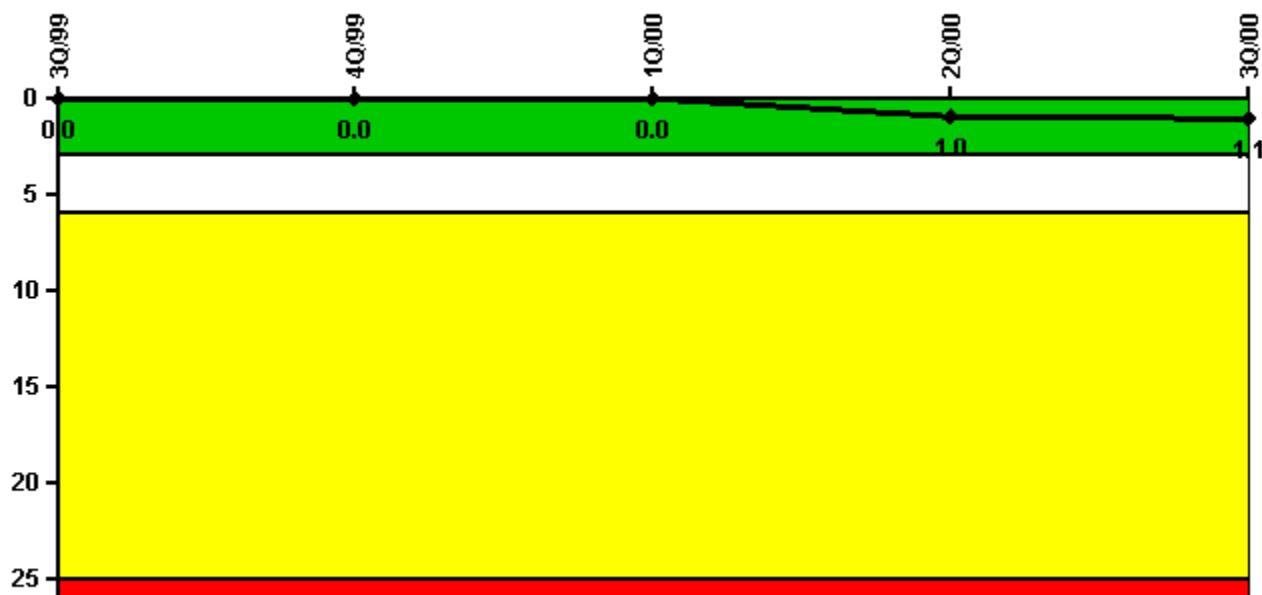
Last Modified: April 1, 2002

Palisades

3Q/2000 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



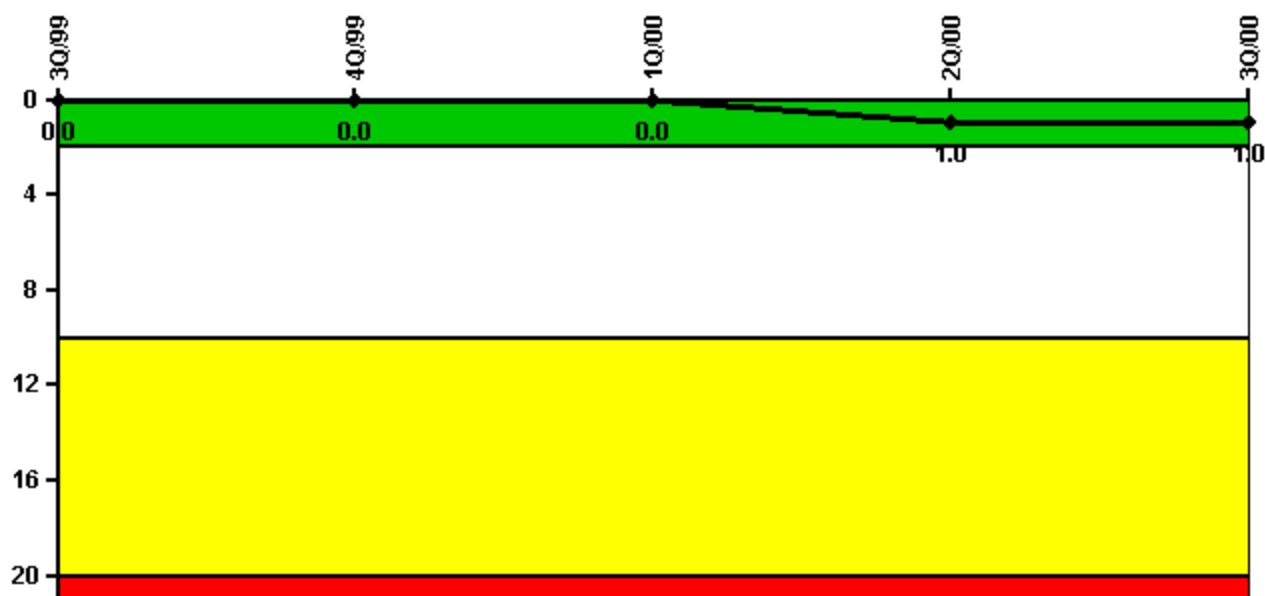
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned scrams	0	0	0	1.0	0
Critical hours	2208.0	872.7	1619.1	2119.0	1785.0
Indicator value	0	0	0	1.0	1.1

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



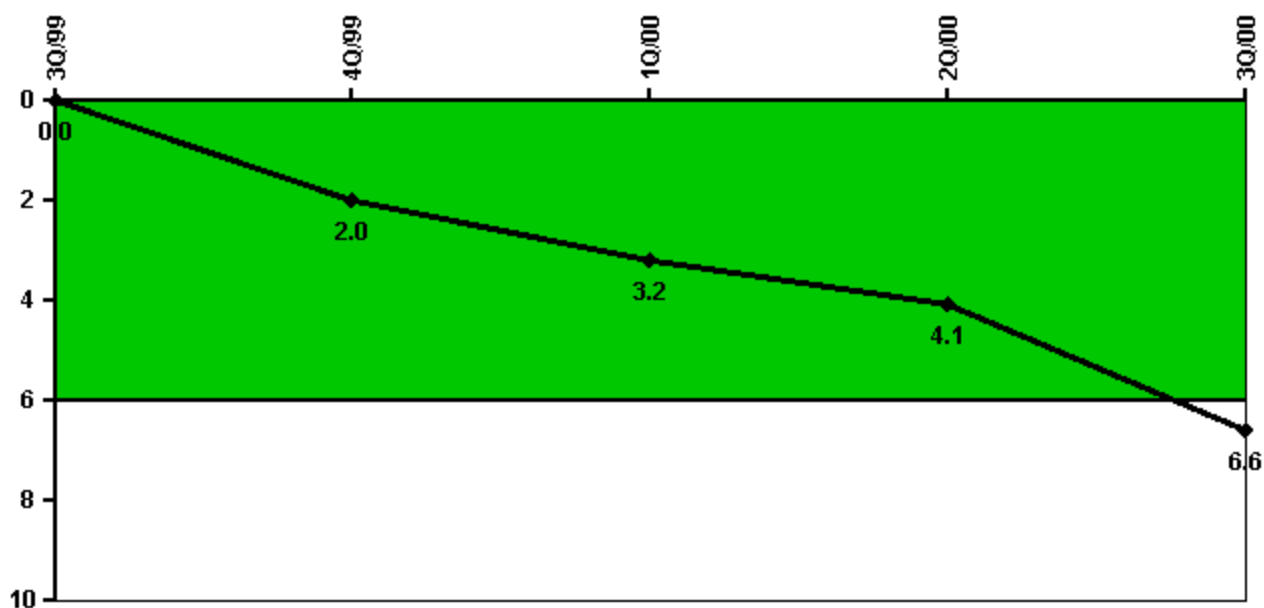
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

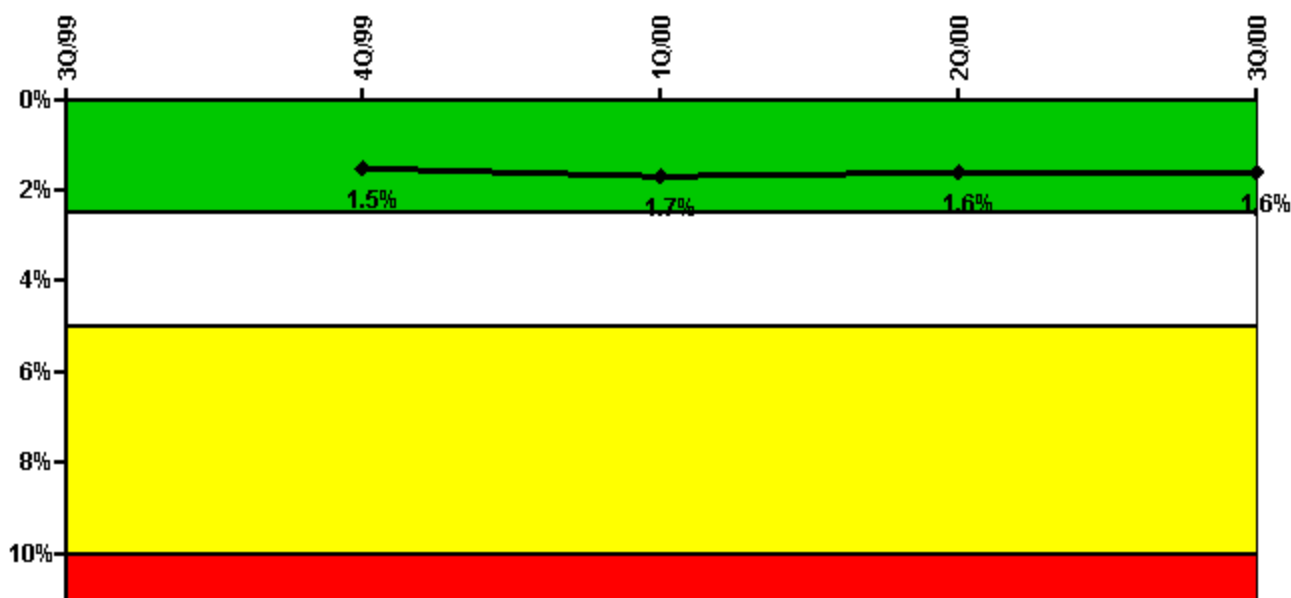
Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned power changes	0	2.0	1.0	1.0	2.0
Critical hours	2208.0	872.7	1619.1	2119.0	1785.0
Indicator value	0	2.0	3.2	4.1	6.6

Licensee Comments:

3Q/00: Process and performance elements contributing to poor equipment reliability have been identified and are being addressed through the site's Operational Excellence Plan.

Safety System Unavailability, Emergency AC Power



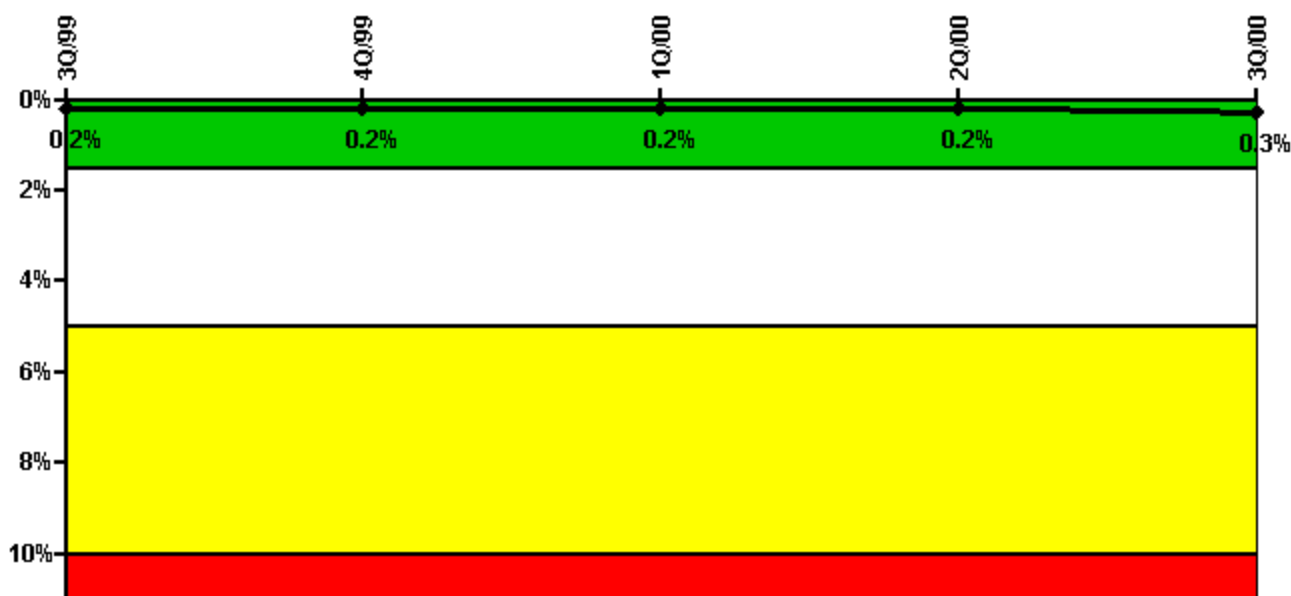
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	0.71	42.30	54.12	0.33	0.39
Unplanned unavailable hours	0	34.00	0	17.78	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2					
Planned unavailable hours	35.23	0.40	35.05	0.45	0.58
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value		1.5%	1.7%	1.6%	1.6%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



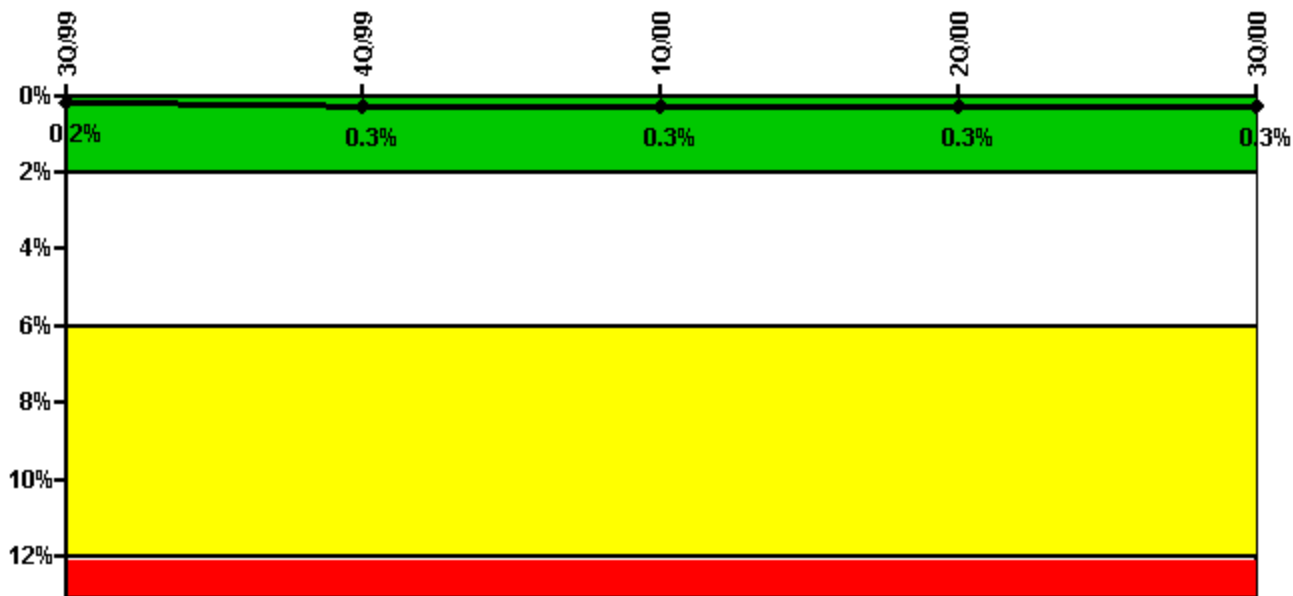
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	2.10	2.60	2.10	0.33	25.40
Unplanned unavailable hours	0	0	0	9.89	23.18
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	872.68	1619.10	2183.00	1933.04
Train 2					
Planned unavailable hours	1.70	0	3.26	7.08	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	872.68	1619.10	2183.00	1933.04
Indicator value	0.2%	0.2%	0.2%	0.2%	0.3%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

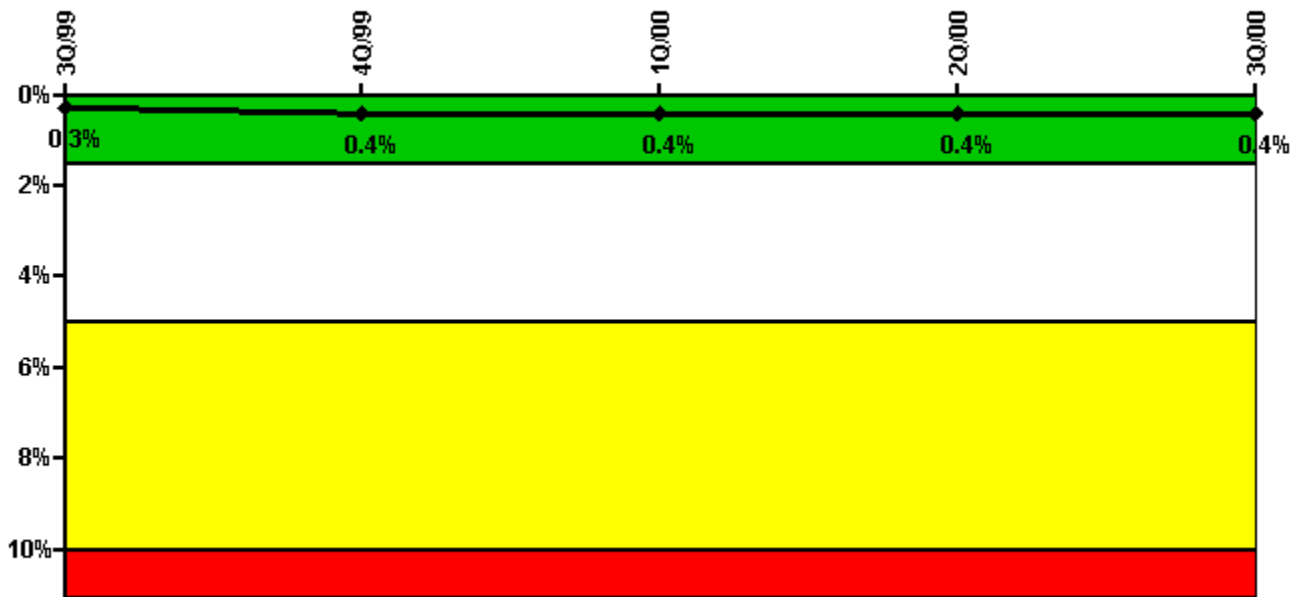
Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	0	3.22	0	0	16.97
Unplanned unavailable hours	1.93	0	2.92	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	872.68	1619.10	2183.00	1933.00
Train 2					
Planned unavailable hours	0	3.27	0	28.35	0.62
Unplanned unavailable hours	0	22.97	2.92	4.08	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	872.68	1619.10	2183.00	1933.00
Train 3					
Planned unavailable hours	8.05	0	0	5.47	18.15
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	872.68	1619.10	2183.00	1933.00
Indicator value	0.2%	0.3%	0.3%	0.3%	0.3%

Licensee Comments:

3Q/00: Log review disclosed 0.93 more planned unavailable hours for Train 3 than originally reported.

Safety System Unavailability, Residual Heat Removal System



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

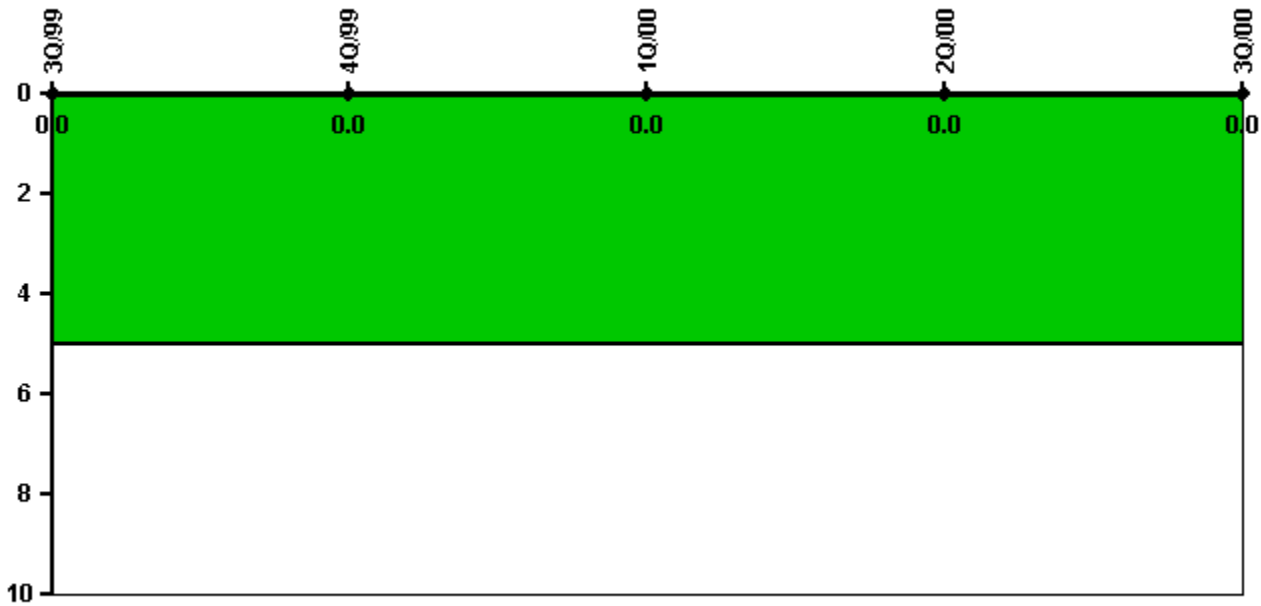
Notes

Safety System Unavailability, Residual Heat Removal System	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	13.60	0	10.40	0.62	0.60
Unplanned unavailable hours	0	0	0	0.08	0
Fault exposure hours	0	57.74	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	1933.04
Train 2					
Planned unavailable hours	5.63	2.82	2.83	0.65	1.80
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	1933.04
Train 3					
Planned unavailable hours	13.60	0	10.40	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	57.74	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	0	274.96
Train 4					
Planned unavailable hours	5.63	2.82	2.83	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	0	274.96

Indicator value	0.3%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Functional Failures (PWR)



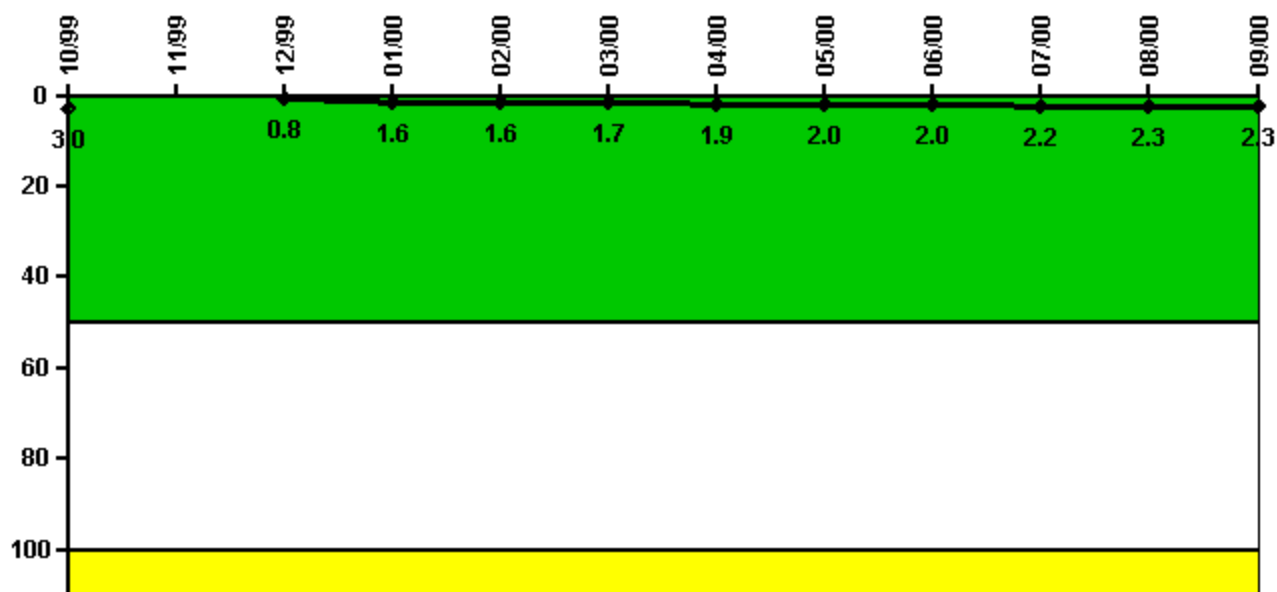
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



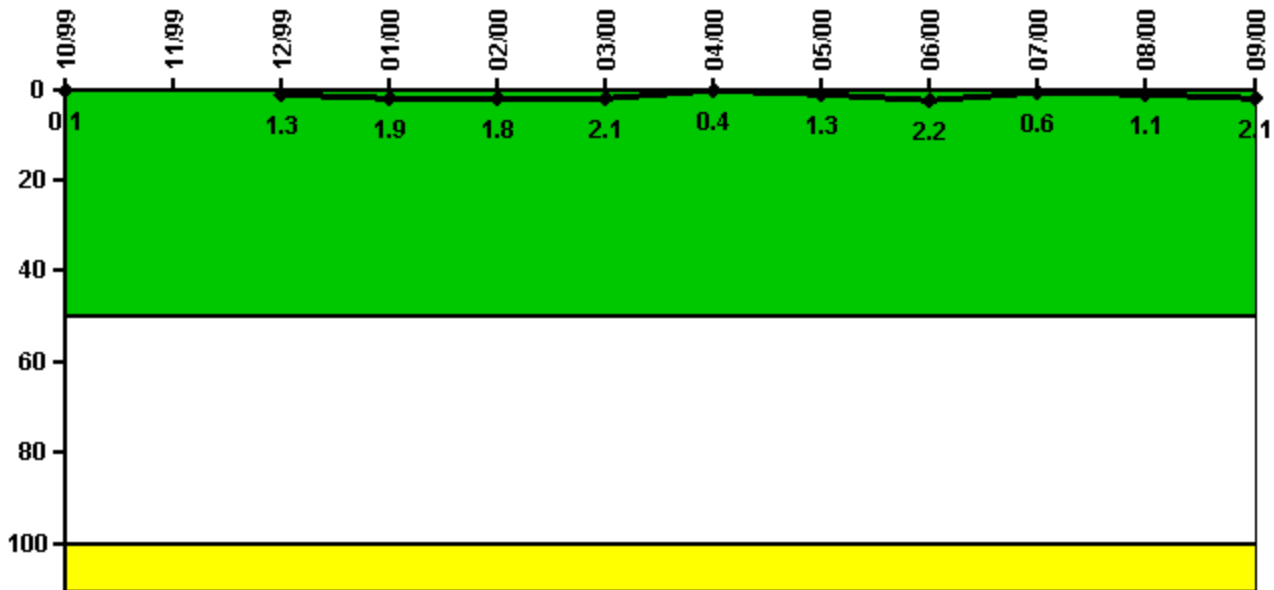
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.030000	N/A	0.008000	0.015700	0.015800	0.016900	0.018800	0.019800	0.020400	0.021600	0.022700	0.022500
Technical specification limit	1.0	N/A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	3.0	N/A	0.8	1.6	1.6	1.7	1.9	2.0	2.0	2.2	2.3	2.3

Licensee Comments: none

Reactor Coolant System Leakage



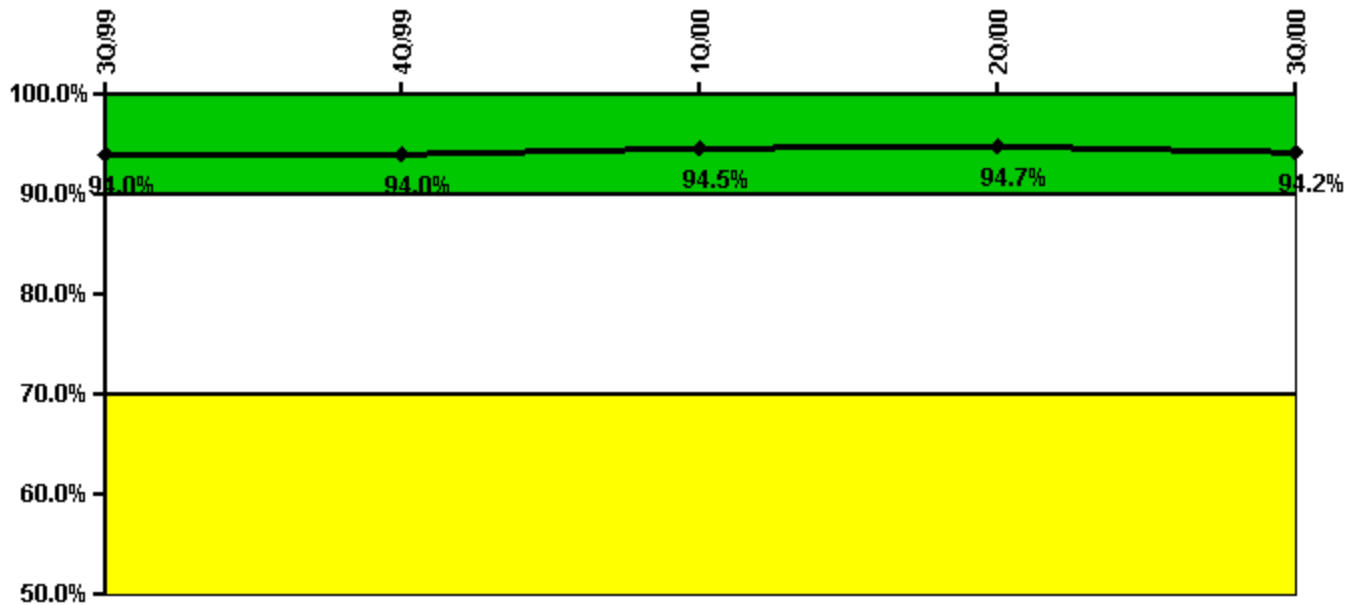
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.010	N/A	0.127	0.187	0.177	0.214	0.041	0.128	0.216	0.060	0.112	0.214
Technical specification limit	10.0	N/A	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	N/A	1.3	1.9	1.8	2.1	0.4	1.3	2.2	0.6	1.1	2.1

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

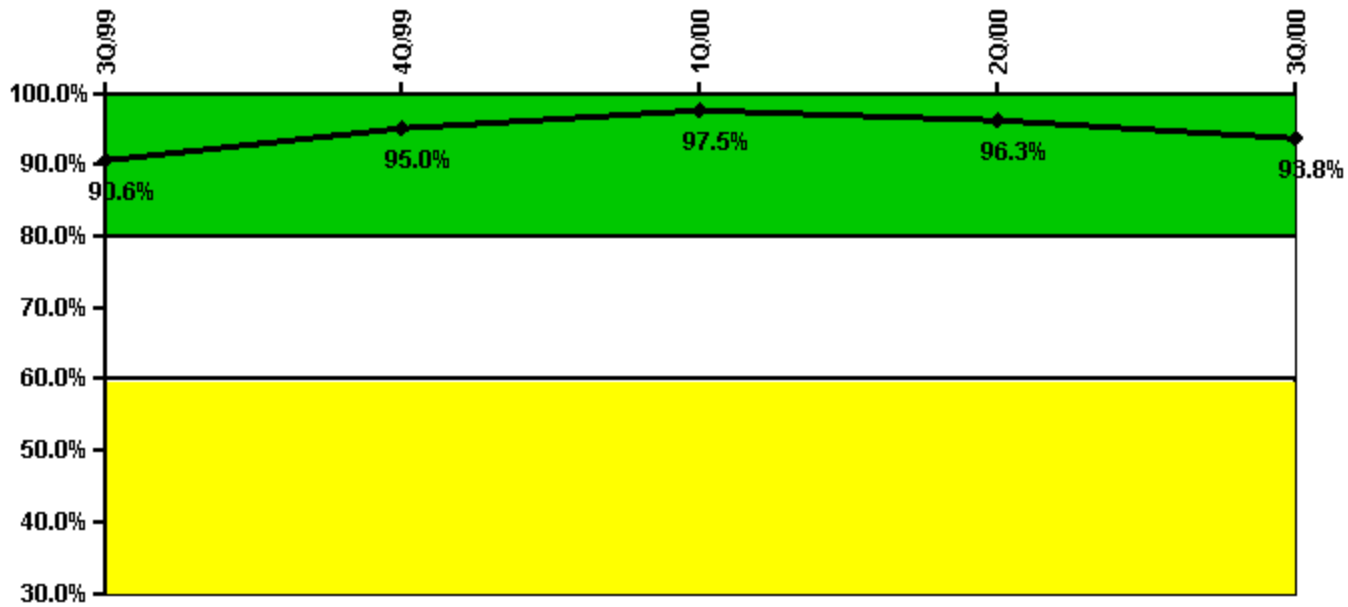
Drill/Exercise Performance	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful opportunities	70.0	0	14.0	21.0	5.0
Total opportunities	74.0	0	14.0	22.0	6.0
Indicator value	94.0%	94.0%	94.5%	94.7%	94.2%

Licensee Comments:

3Q/00: Self-assessment disclosed administrative error in data reduction. Original report of 9 successes for 10 opportunities should have been 5 successes for 6 opportunities. Change has no effect on PI color.

1Q/00: Self-assessment disclosed that three opportunities/successes had been credited for other than initial classification/notifications. The revised number reflects the reduction (17 to 14). This has negligible effect on the PI value.

ERO Drill Participation



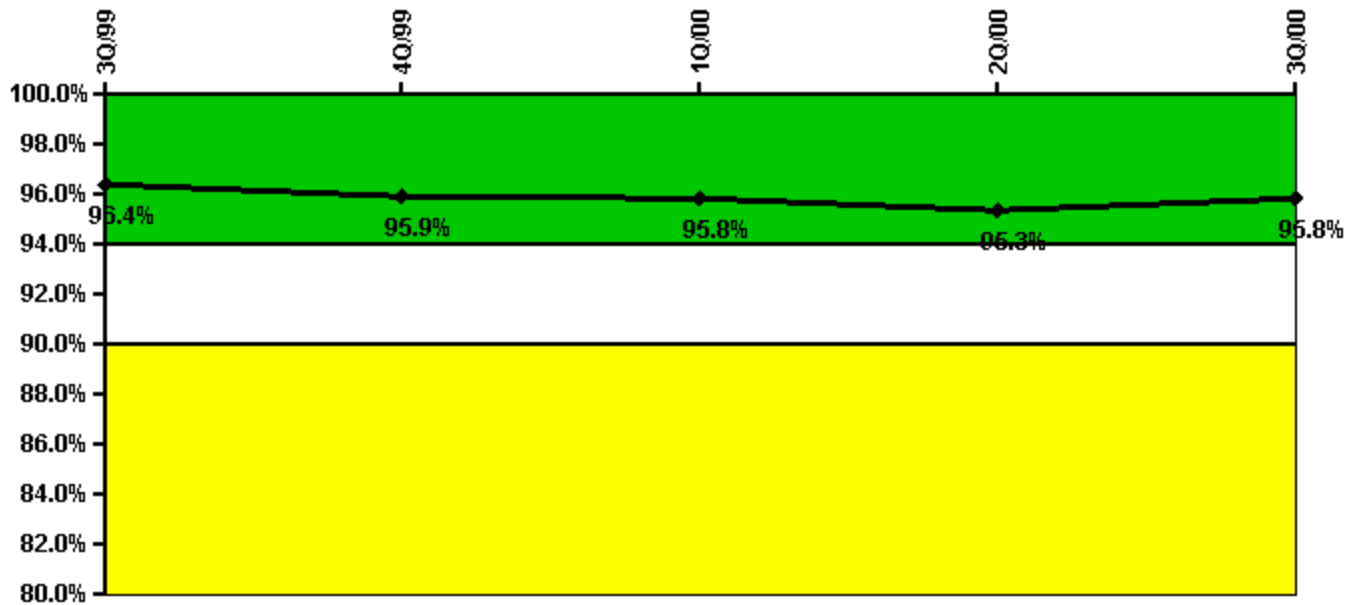
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Participating Key personnel	77.0	76.0	79.0	78.0	76.0
Total Key personnel	85.0	80.0	81.0	81.0	81.0
Indicator value	90.6%	95.0%	97.5%	96.3%	93.8%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

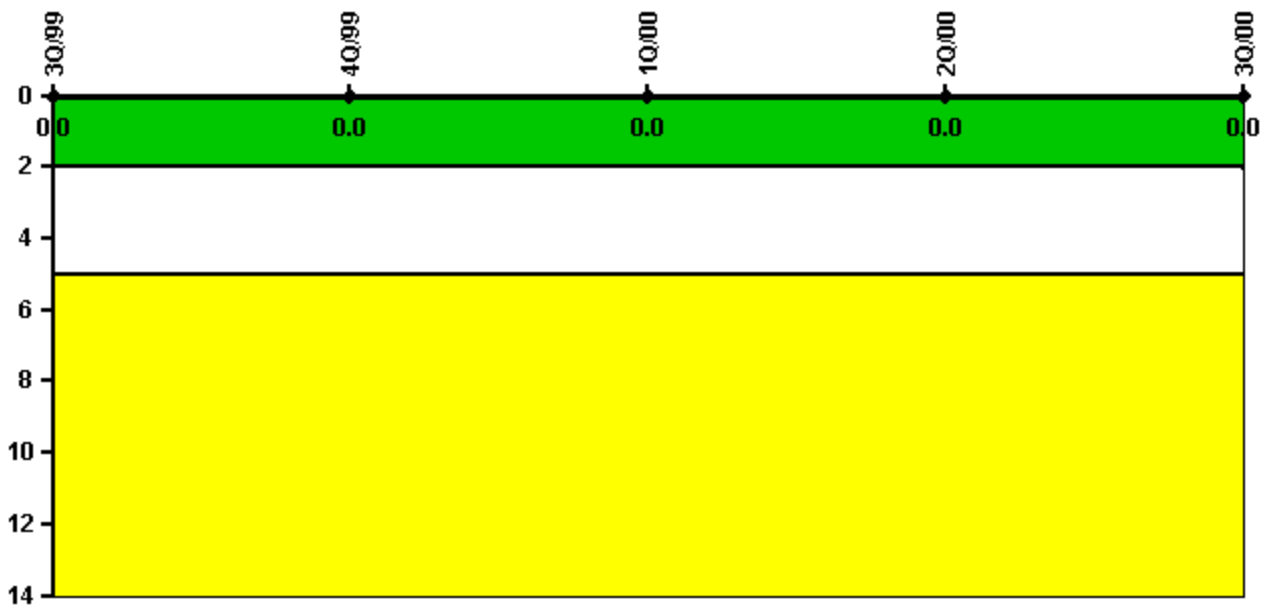
Notes

Alert & Notification System	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful siren-tests	213	211	203	239	244
Total sirens-tests	225	219	213	252	252
Indicator value	96.4%	95.9%	95.8%	95.3%	95.8%

Licensee Comments:

2Q/00: Data review identified one less successful siren test in this quarter than originally reported.

Occupational Exposure Control Effectiveness



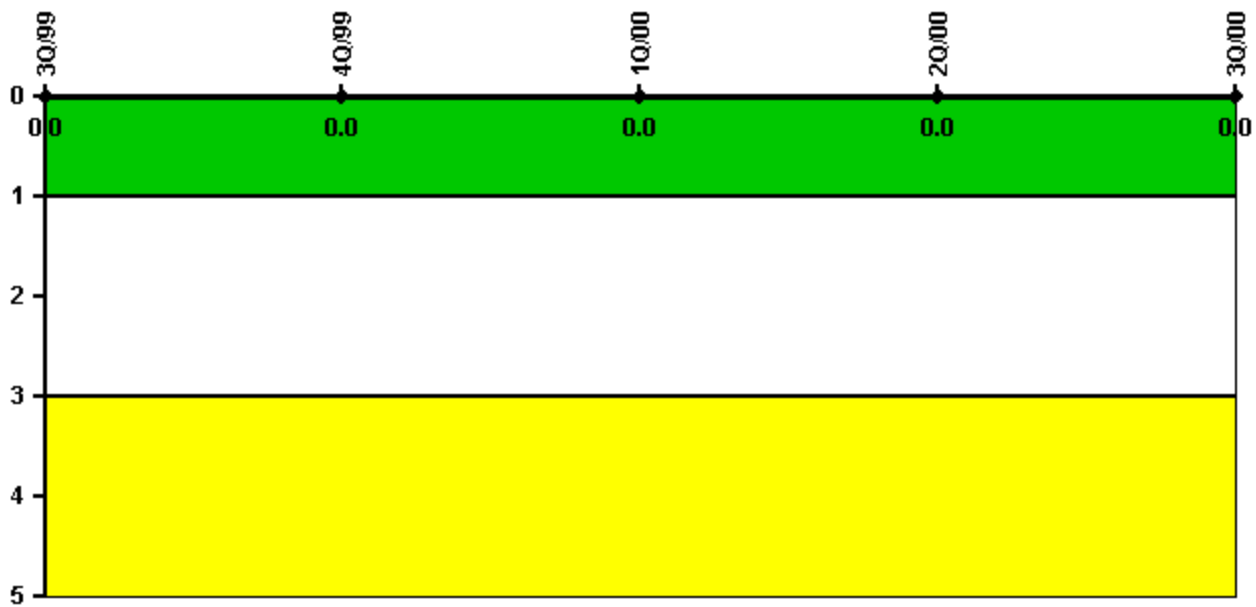
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



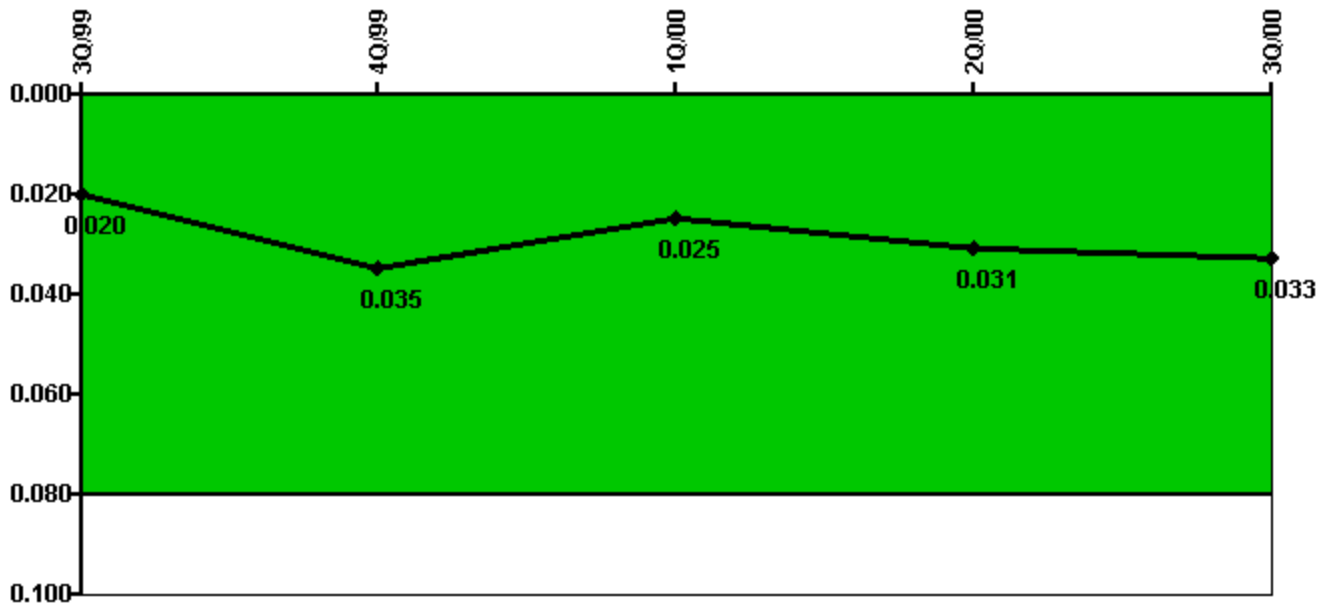
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



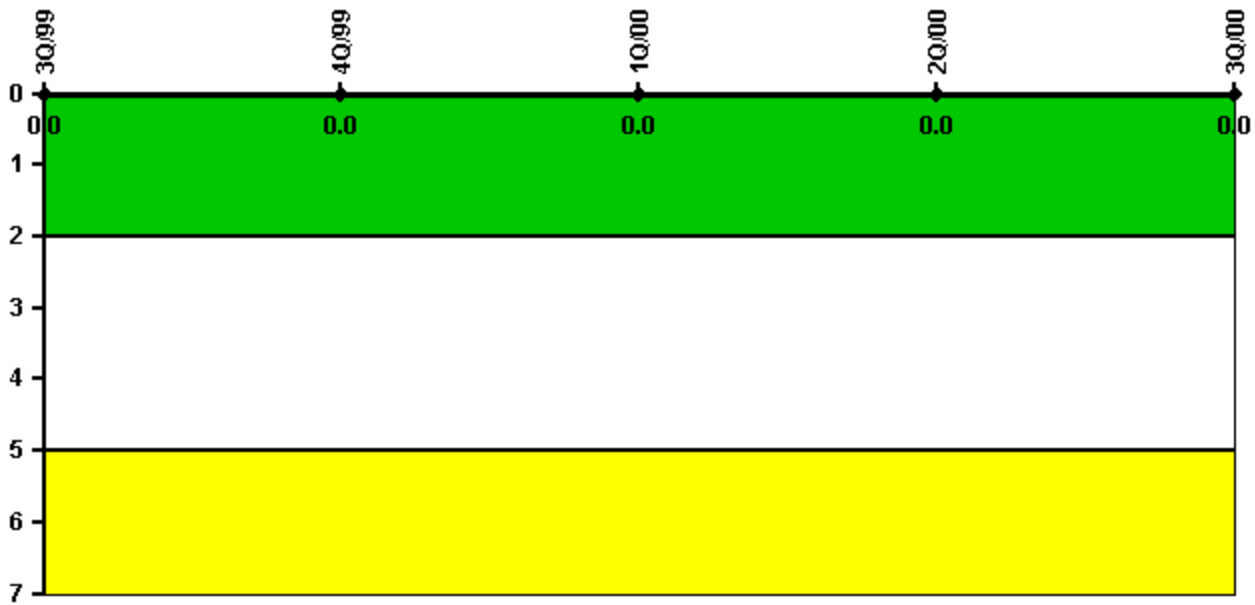
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
IDS compensatory hours	34.30	499.15	57.81	201.00	81.82
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.45	1.45	1.45	1.45	1.45
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	0.020	0.035	0.025	0.031	0.033

Licensee Comments: none

Personnel Screening Program



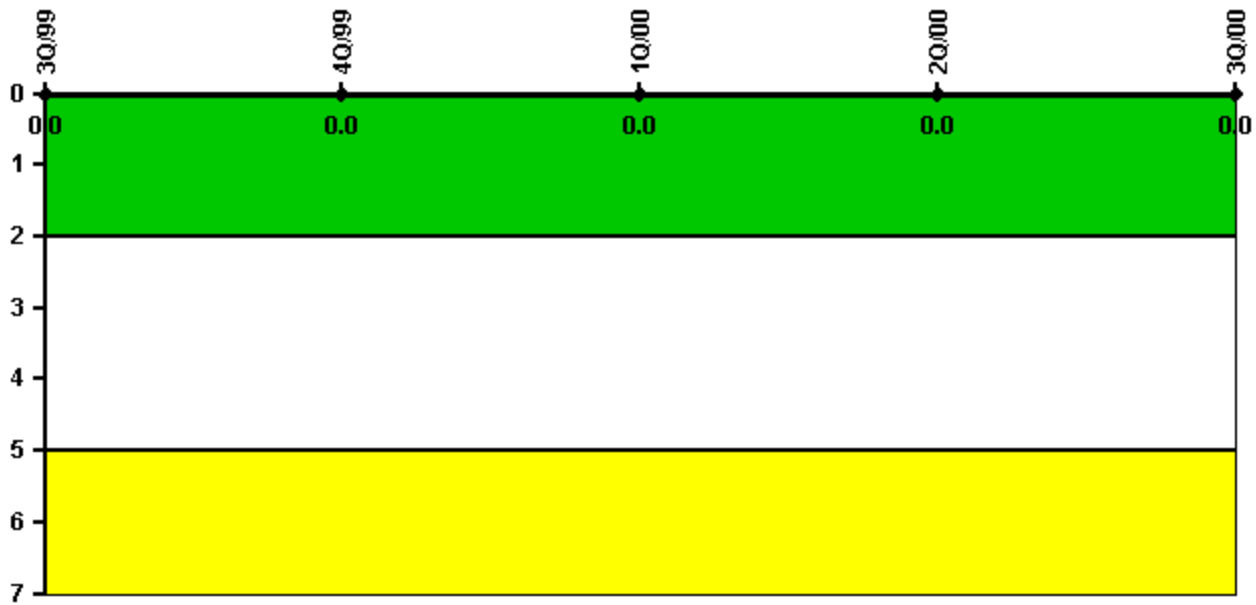
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none



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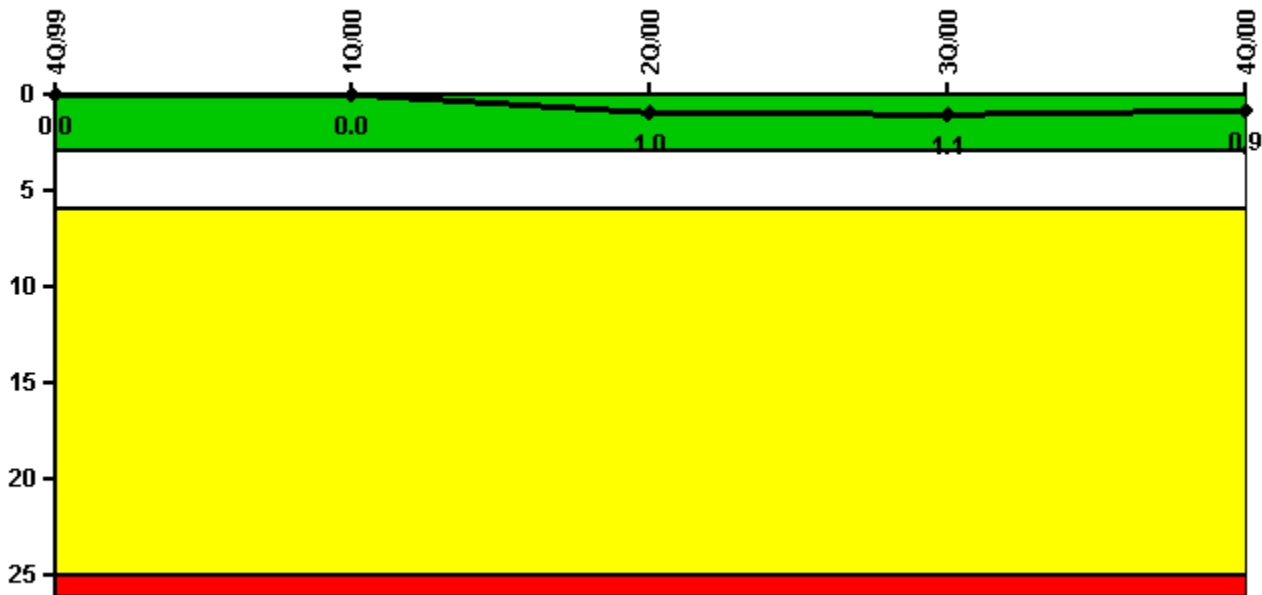
Last Modified: March 29, 2002

Palisades

4Q/2000 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



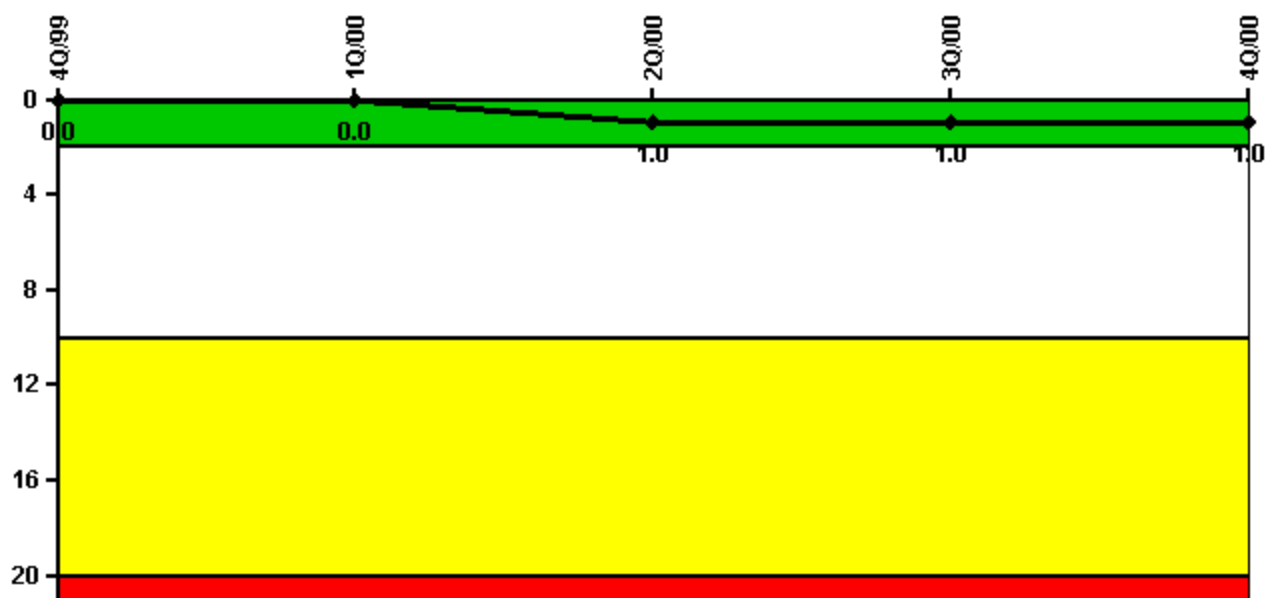
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned scrams	0	0	1.0	0	0
Critical hours	872.7	1619.1	2119.0	1785.0	2209.0
Indicator value	0	0	1.0	1.1	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



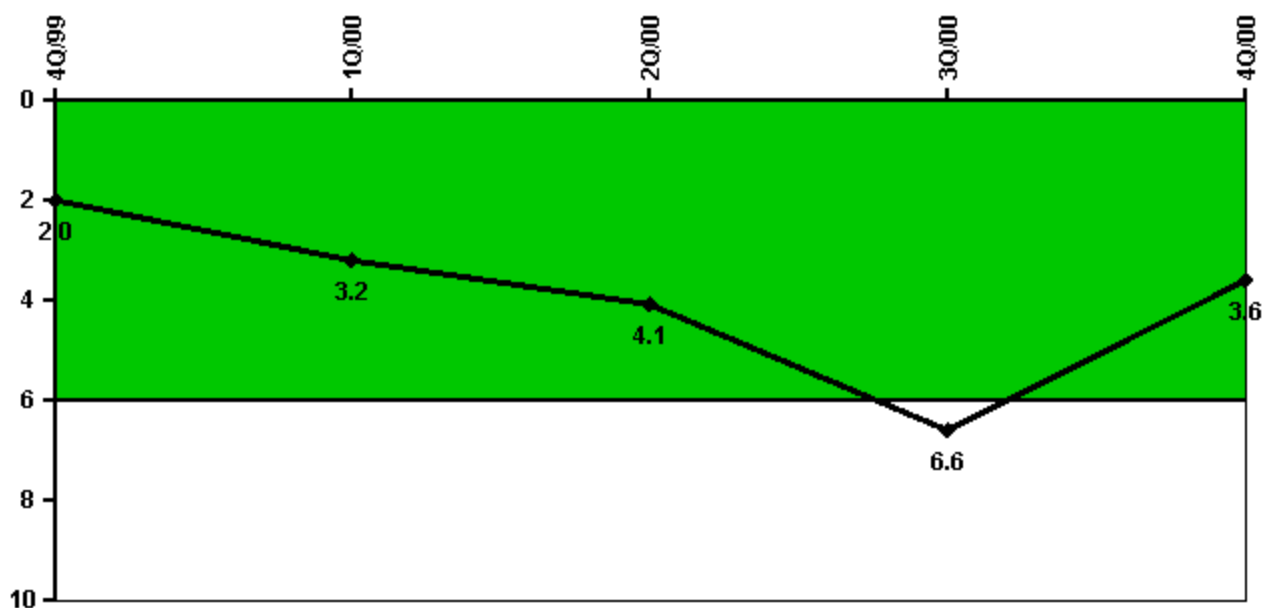
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



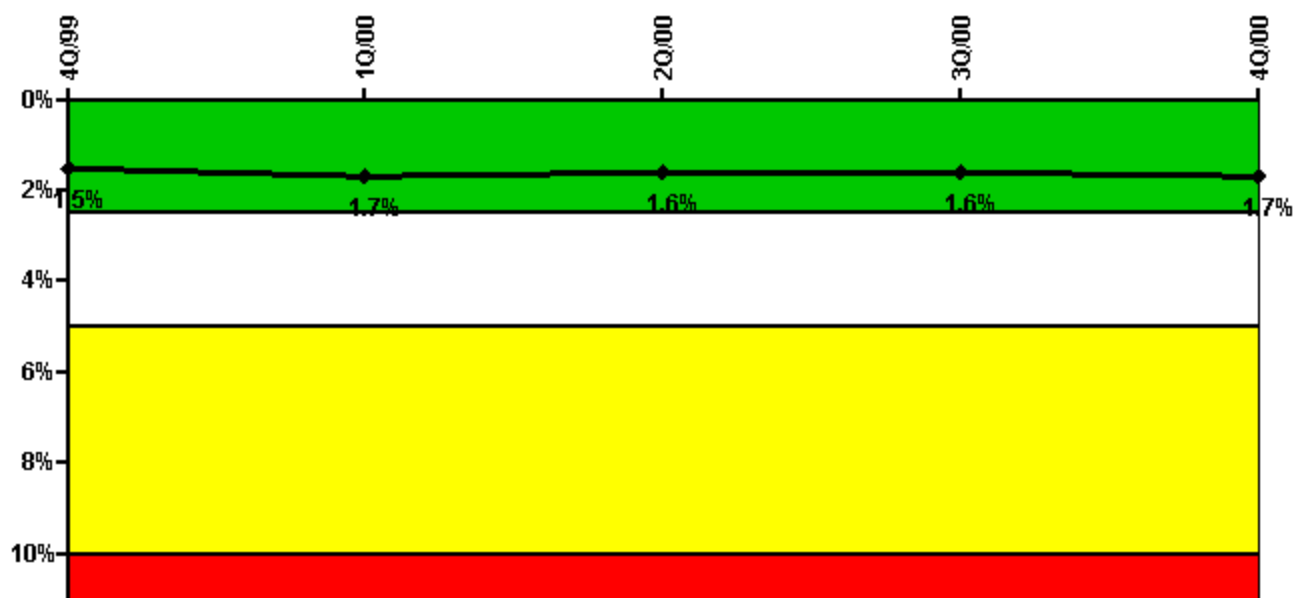
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned power changes	2.0	1.0	1.0	2.0	0
Critical hours	872.7	1619.1	2119.0	1785.0	2209.0
Indicator value	2.0	3.2	4.1	6.6	3.6

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



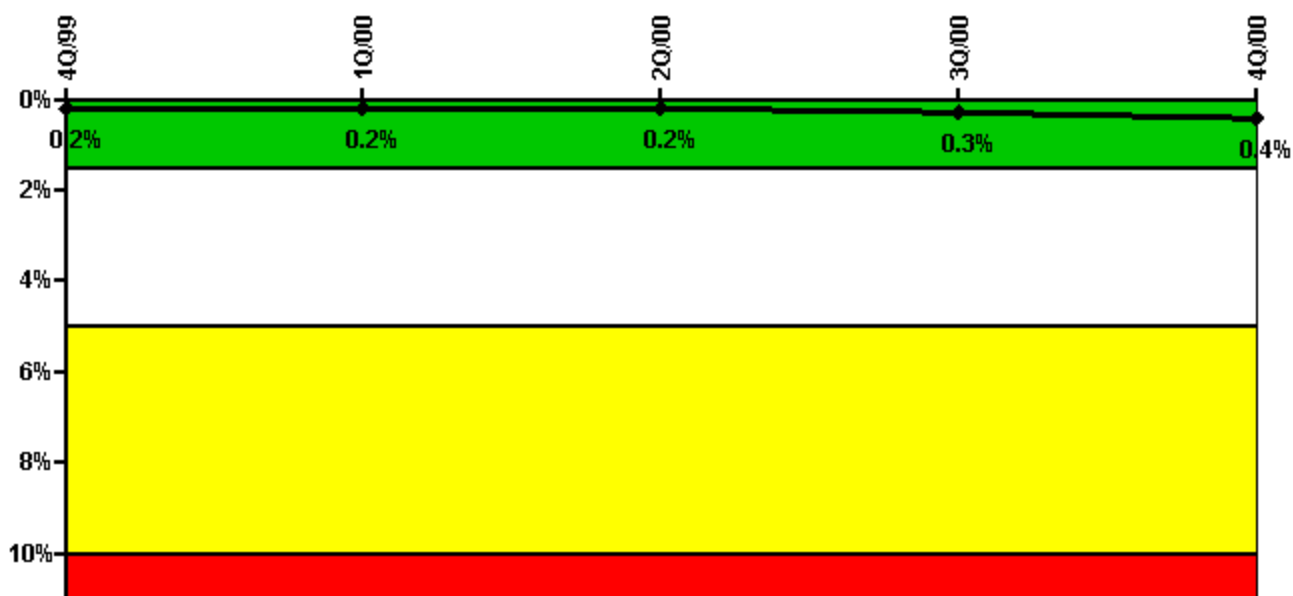
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	42.30	54.12	0.33	0.39	55.88
Unplanned unavailable hours	34.00	0	17.78	0	49.28
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Train 2					
Planned unavailable hours	0.40	35.05	0.45	0.58	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	2209.00	2184.00	2183.00	2208.00	2209.00
Indicator value	1.5%	1.7%	1.6%	1.6%	1.7%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



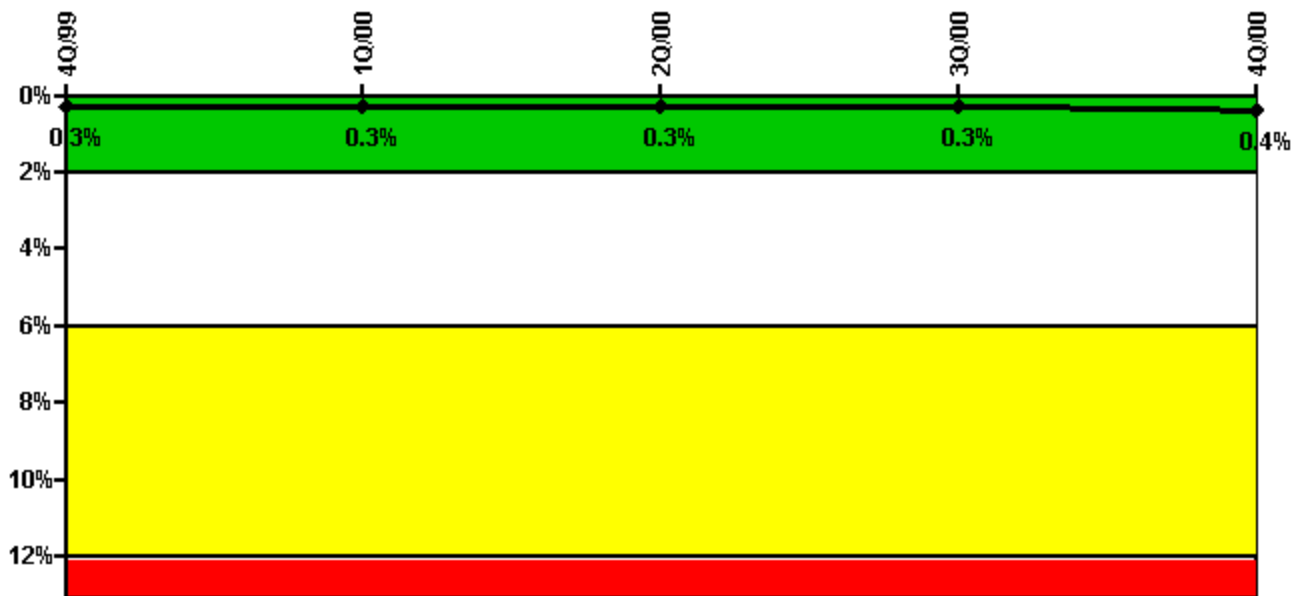
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	2.60	2.10	0.33	25.40	14.52
Unplanned unavailable hours	0	0	9.89	23.18	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	872.68	1619.10	2183.00	1933.04	2209.00
Train 2					
Planned unavailable hours	0	3.26	7.08	0	10.27
Unplanned unavailable hours	0	0	0	0	0.27
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	872.68	1619.10	2183.00	1933.04	2209.00
Indicator value	0.2%	0.2%	0.2%	0.3%	0.4%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

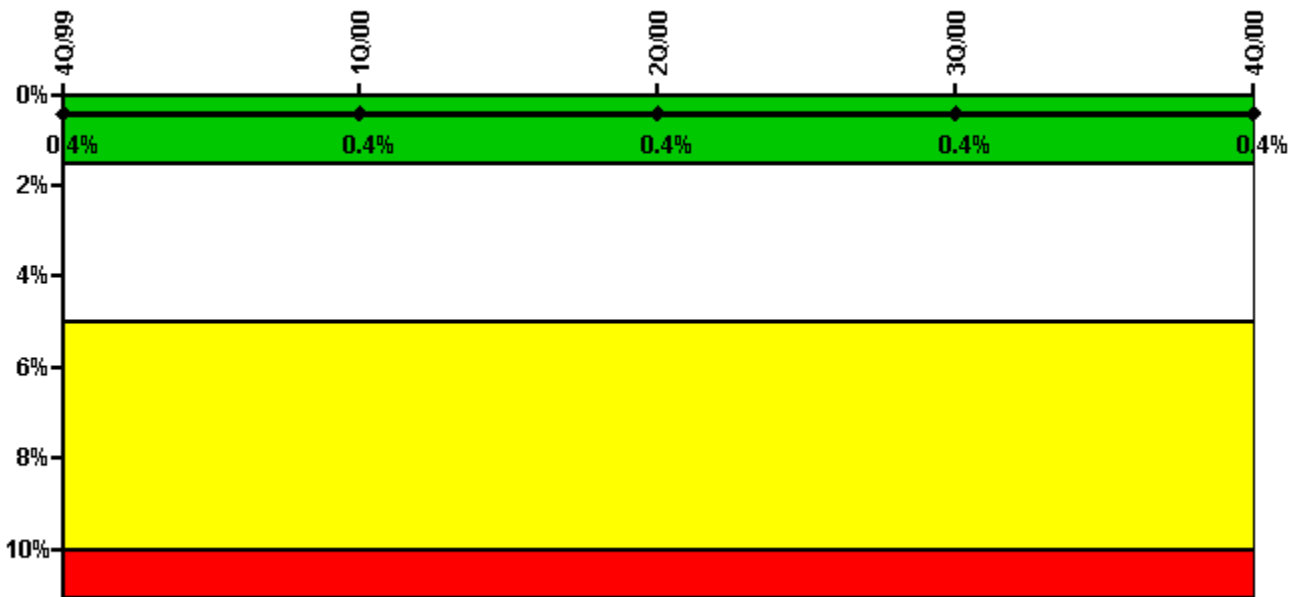
Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	3.22	0	0	16.97	36.22
Unplanned unavailable hours	0	2.92	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	872.68	1619.10	2183.00	1933.00	2209.00
Train 2					
Planned unavailable hours	3.27	0	28.35	0.62	5.64
Unplanned unavailable hours	22.97	2.92	4.08	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	872.68	1619.10	2183.00	1933.00	2209.00
Train 3					
Planned unavailable hours	0	0	5.47	18.15	0.77
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	872.68	1619.10	2183.00	1933.00	2209.00
Indicator value	0.3%	0.3%	0.3%	0.3%	0.4%

Licensee Comments:

3Q/00: Log review disclosed 0.93 more planned unavailable hours for Train 3 than originally reported.

Safety System Unavailability, Residual Heat Removal System



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

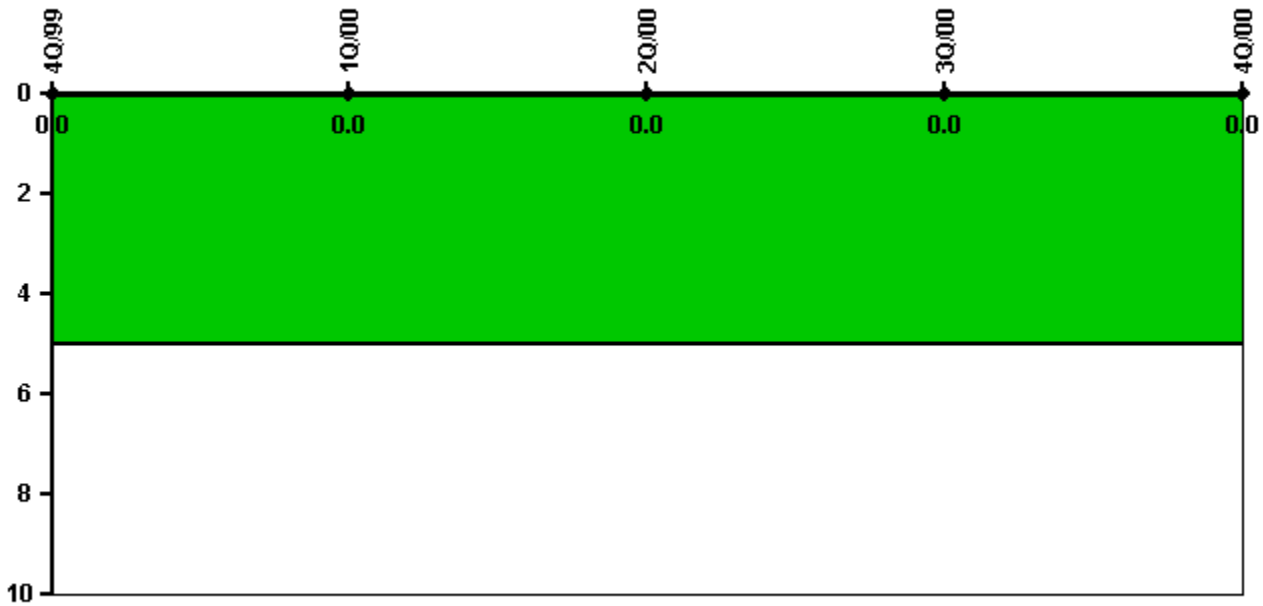
Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	0	10.40	0.62	0.60	3.49
Unplanned unavailable hours	0	0	0.08	0	0
Fault exposure hours	57.74	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	1933.04	2209.00
Train 2					
Planned unavailable hours	2.82	2.83	0.65	1.80	3.67
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	1933.04	2209.00
Train 3					
Planned unavailable hours	0	10.40	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	57.74	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	0	274.96	0
Train 4					
Planned unavailable hours	2.82	2.83	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	0	274.96	0

Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Functional Failures (PWR)



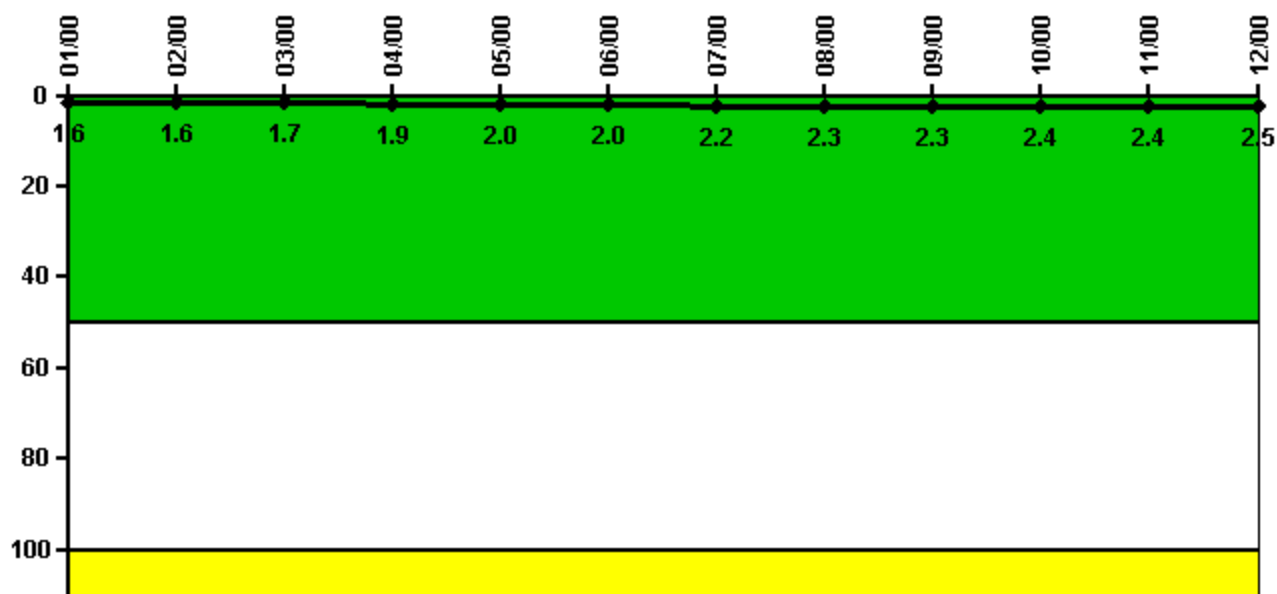
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



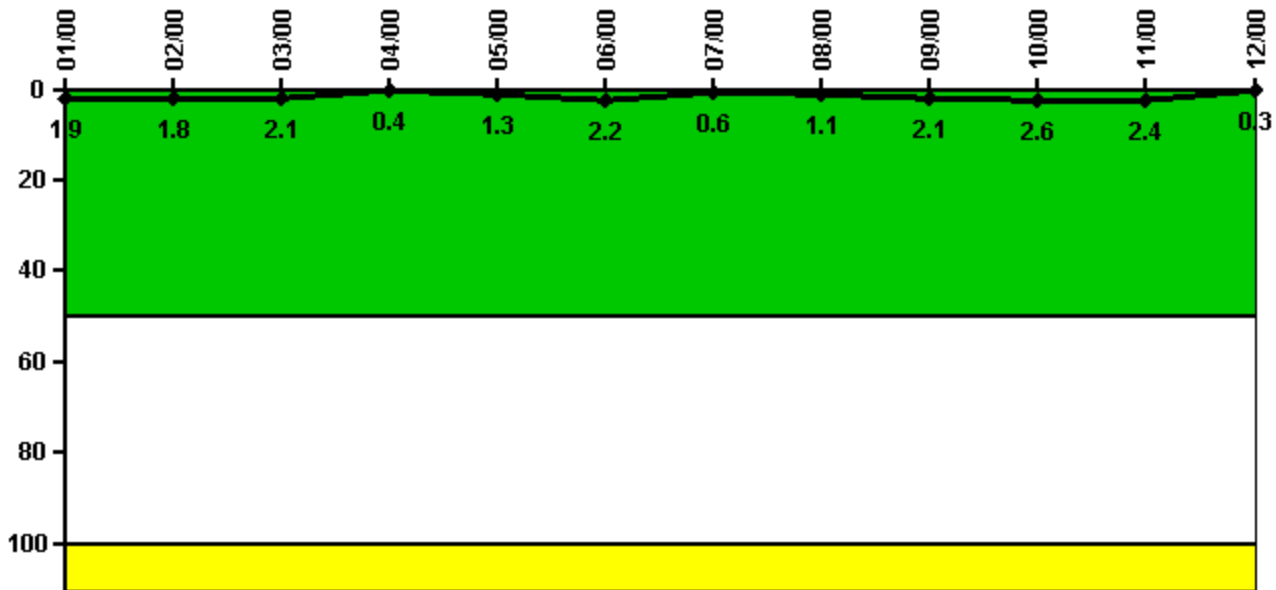
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum activity	0.015700	0.015800	0.016900	0.018800	0.019800	0.020400	0.021600	0.022700	0.022500	0.024000	0.024300	0.024800
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.6	1.6	1.7	1.9	2.0	2.0	2.2	2.3	2.3	2.4	2.4	2.5

Licensee Comments: none

Reactor Coolant System Leakage



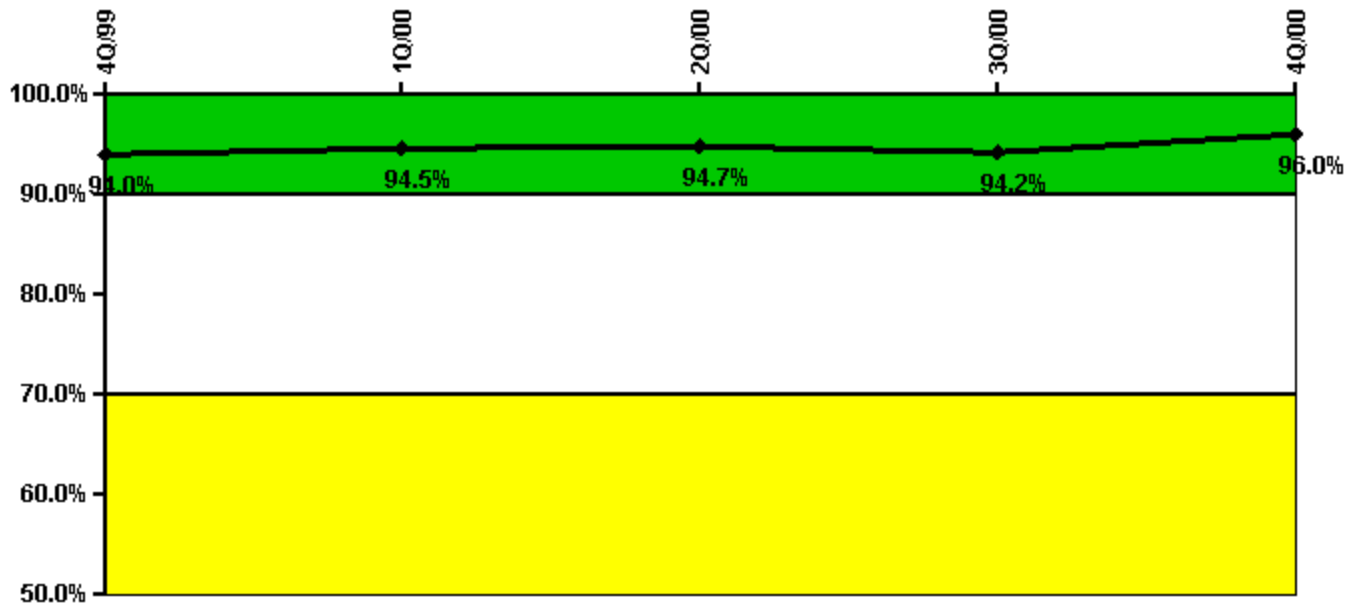
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage	0.187	0.177	0.214	0.041	0.128	0.216	0.060	0.112	0.214	0.261	0.241	0.030
Technical specification limit	10.0	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	1.8	2.1	0.4	1.3	2.2	0.6	1.1	2.1	2.6	2.4	0.3

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

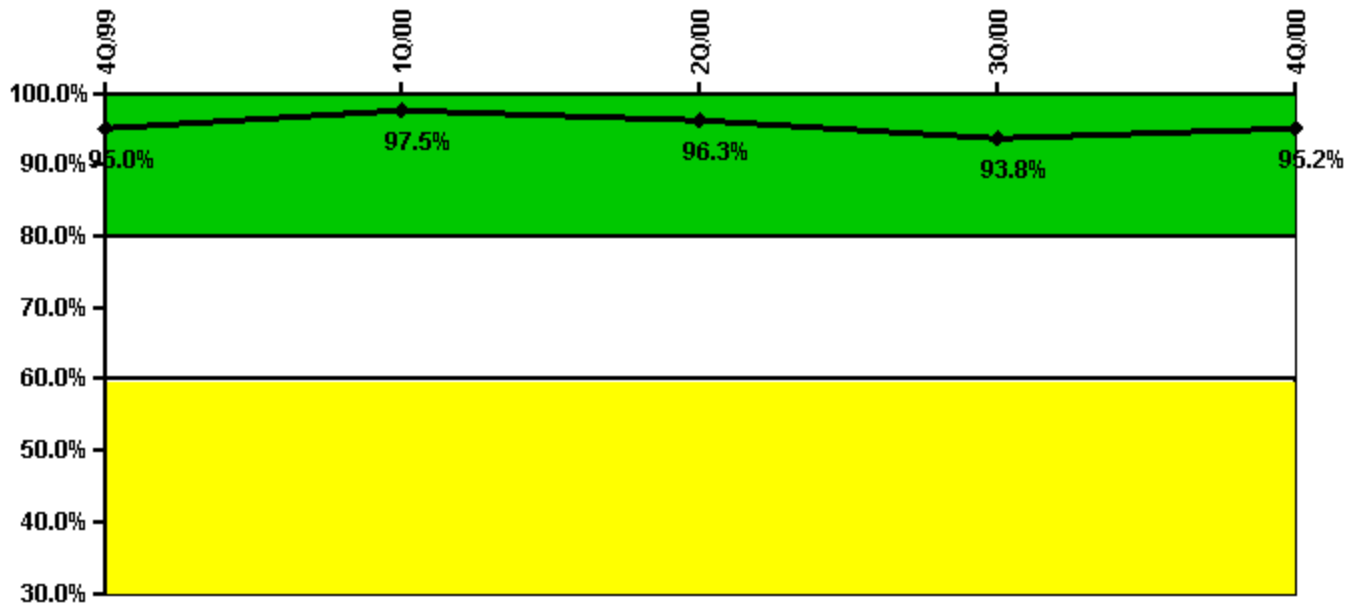
Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Successful opportunities	0	14.0	21.0	5.0	10.0
Total opportunities	0	14.0	22.0	6.0	10.0
Indicator value	94.0%	94.5%	94.7%	94.2%	96.0%

Licensee Comments:

3Q/00: Self-assessment disclosed administrative error in data reduction. Original report of 9 successes for 10 opportunities should have been 5 successes for 6 opportunities. Change has no effect on PI color.

1Q/00: Self-assessment disclosed that three opportunities/successes had been credited for other than initial classification/notifications. The revised number reflects the reduction (17 to 14). This has negligible effect on the PI value.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

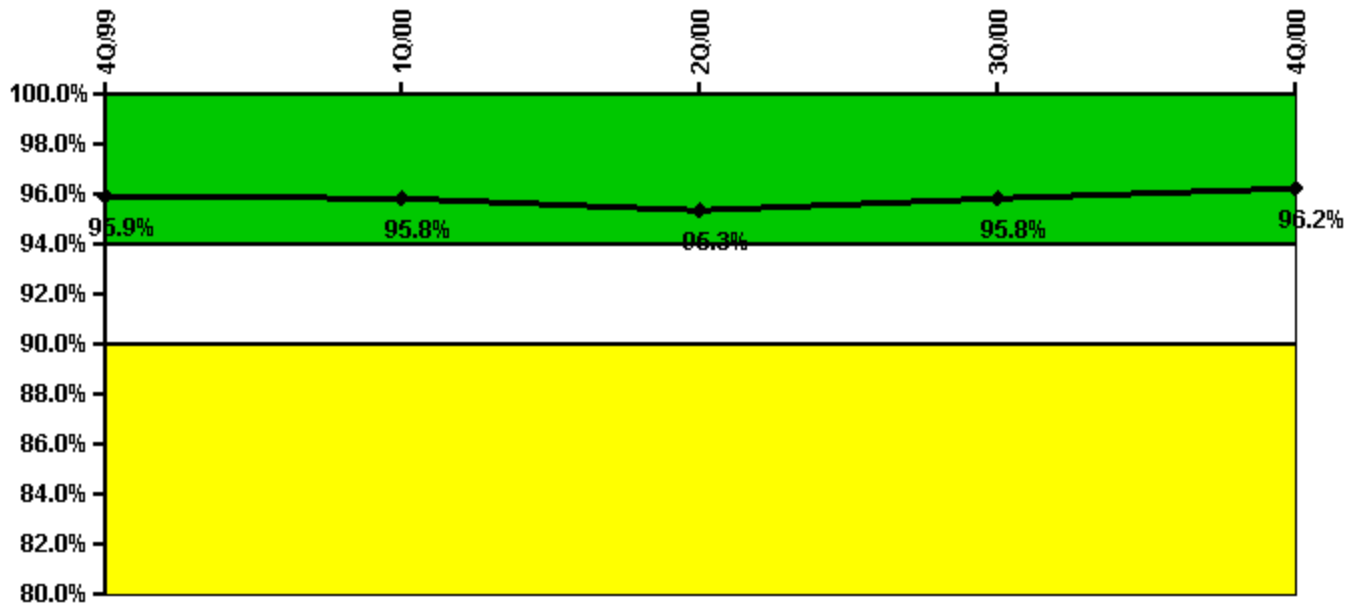
Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Participating Key personnel	76.0	79.0	78.0	76.0	79.0
Total Key personnel	80.0	81.0	81.0	81.0	83.0
Indicator value	95.0%	97.5%	96.3%	93.8%	95.2%

Licensee Comments:

4Q/00: Self-assessment disclosed administrative error in data reduction. Original report of 80 of 83 members meeting standard should have been 79 of 83. No effect on PI color.

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

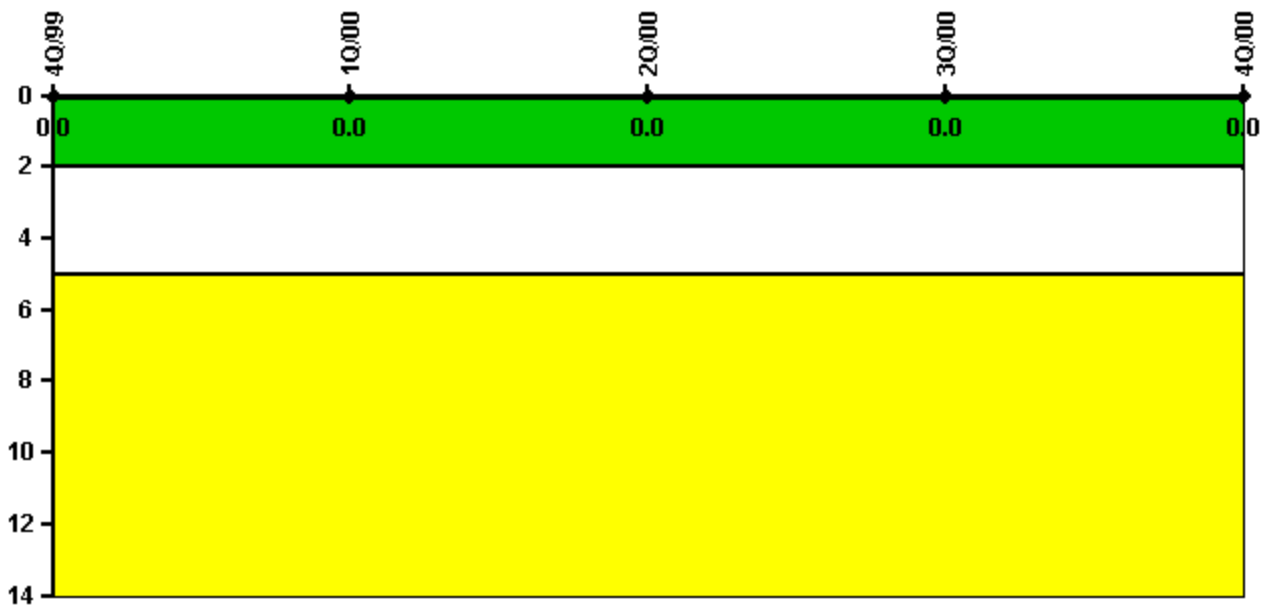
Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Successful siren-tests	211	203	239	244	246
Total sirens-tests	219	213	252	252	252
Indicator value	95.9%	95.8%	95.3%	95.8%	96.2%

Licensee Comments:

2Q/00: Data review identified one less successful siren test in this quarter than originally reported.

Occupational Exposure Control Effectiveness



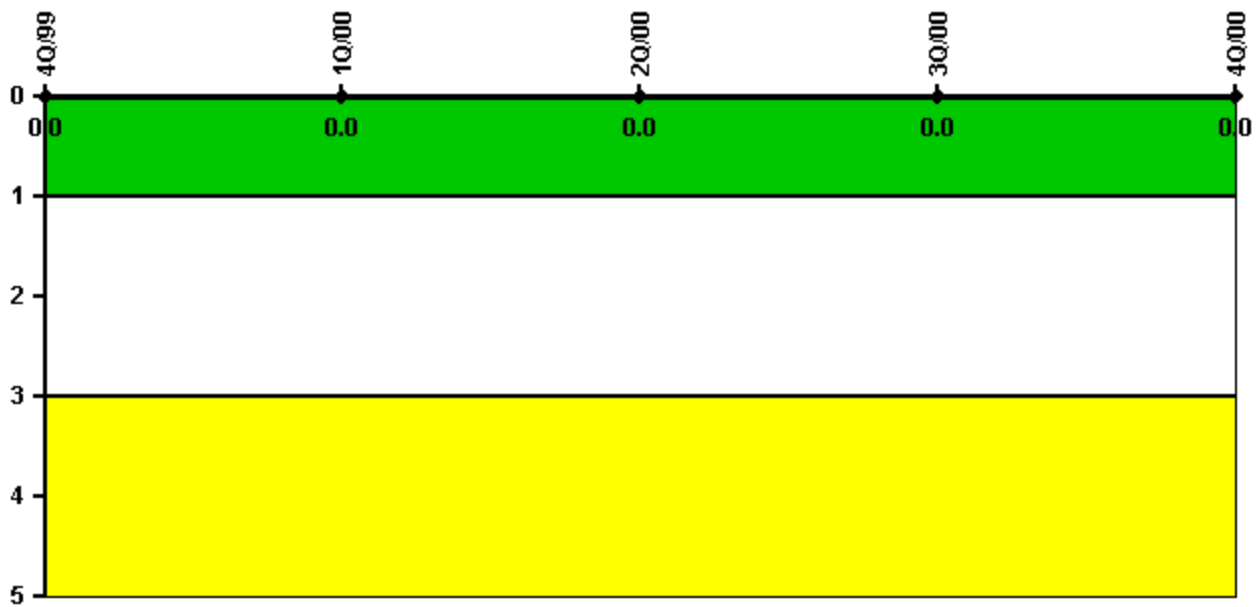
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



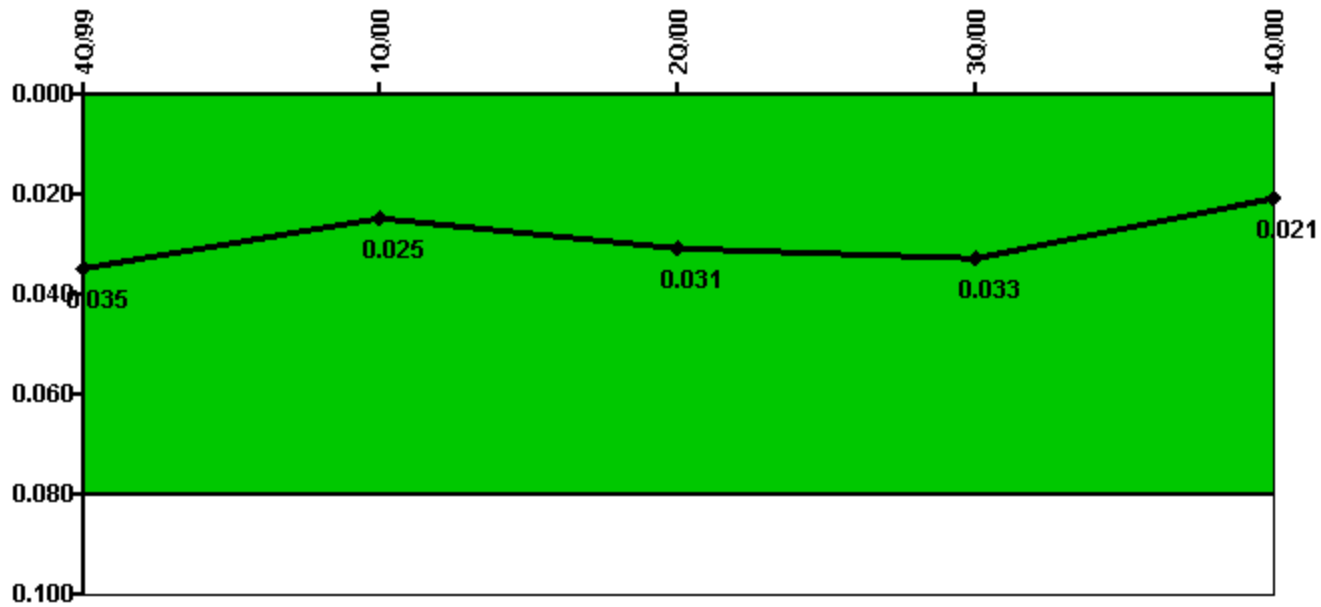
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



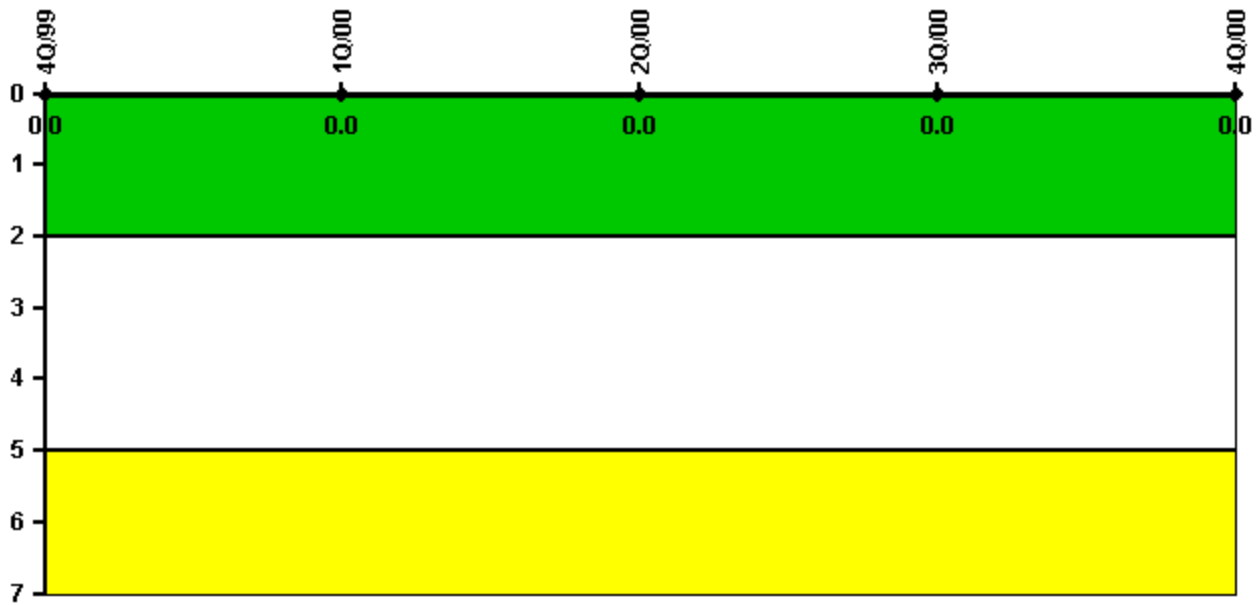
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
IDS compensatory hours	499.15	57.81	201.00	81.82	196.99
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.45	1.45	1.45	1.45	1.45
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	0.035	0.025	0.031	0.033	0.021

Licensee Comments: none

Personnel Screening Program



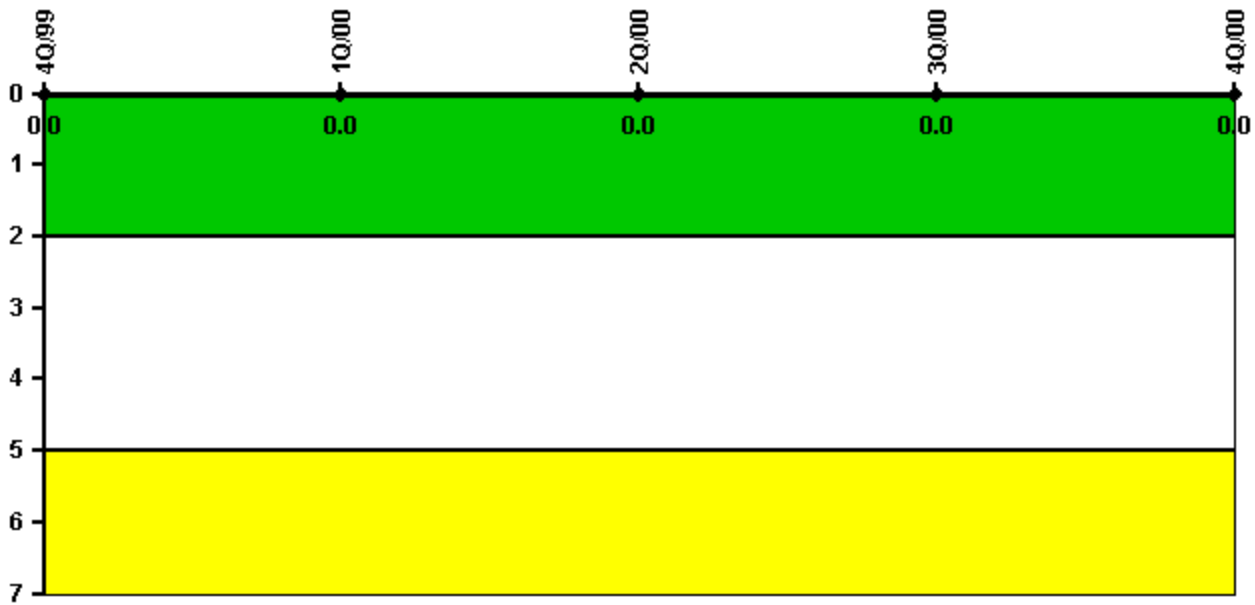
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

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

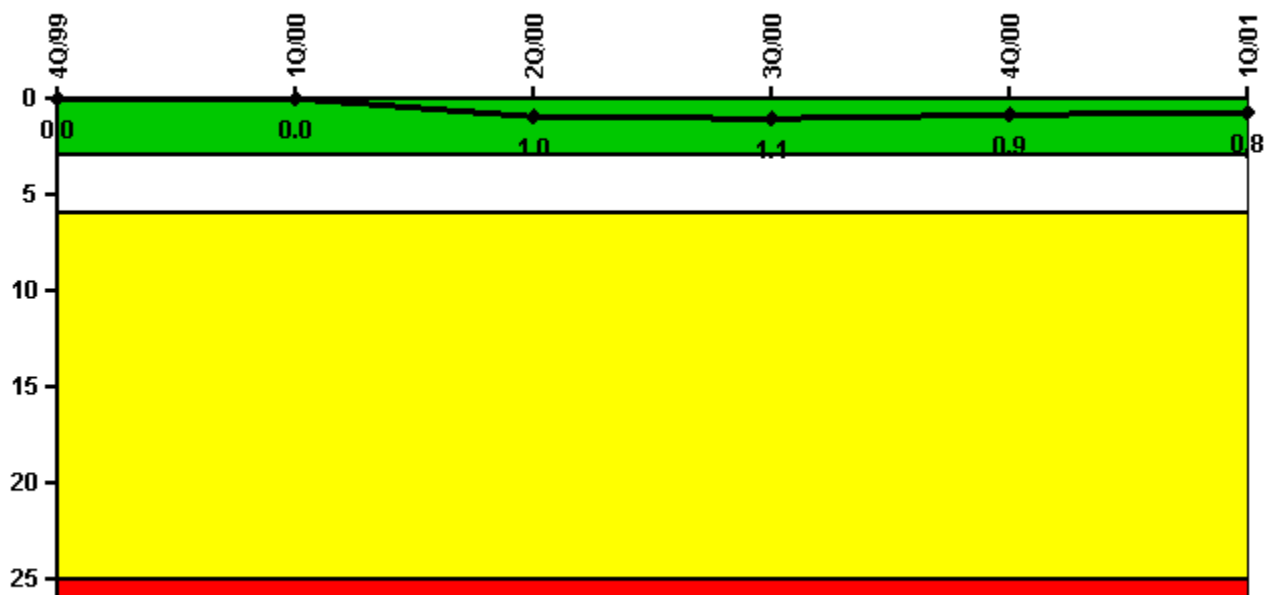
Last Modified: March 28, 2002

Palisades

1Q/2001 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



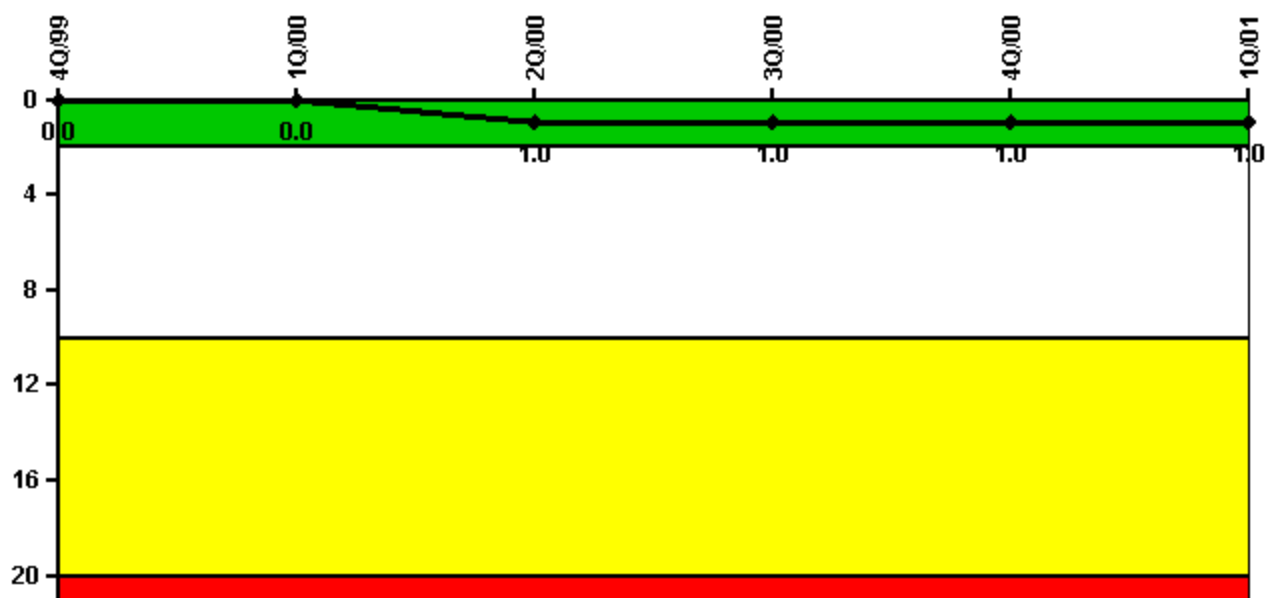
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned scrams	0	0	1.0	0	0	0
Critical hours	872.7	1619.1	2119.0	1785.0	2209.0	2133.8
Indicator value	0	0	1.0	1.1	0.9	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



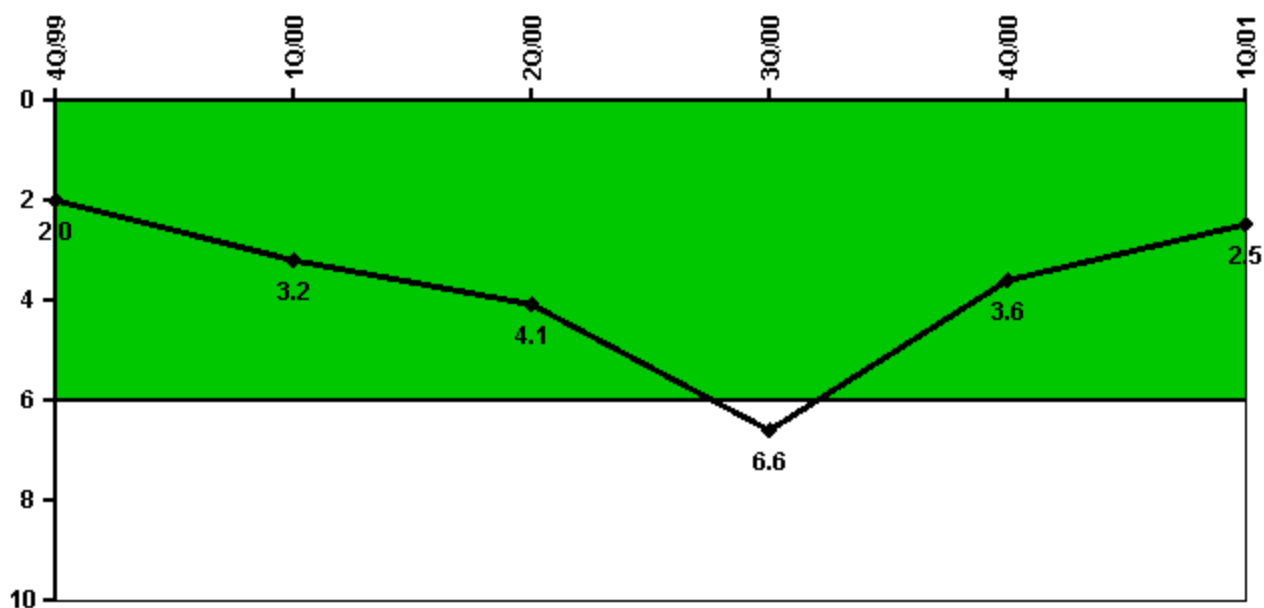
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



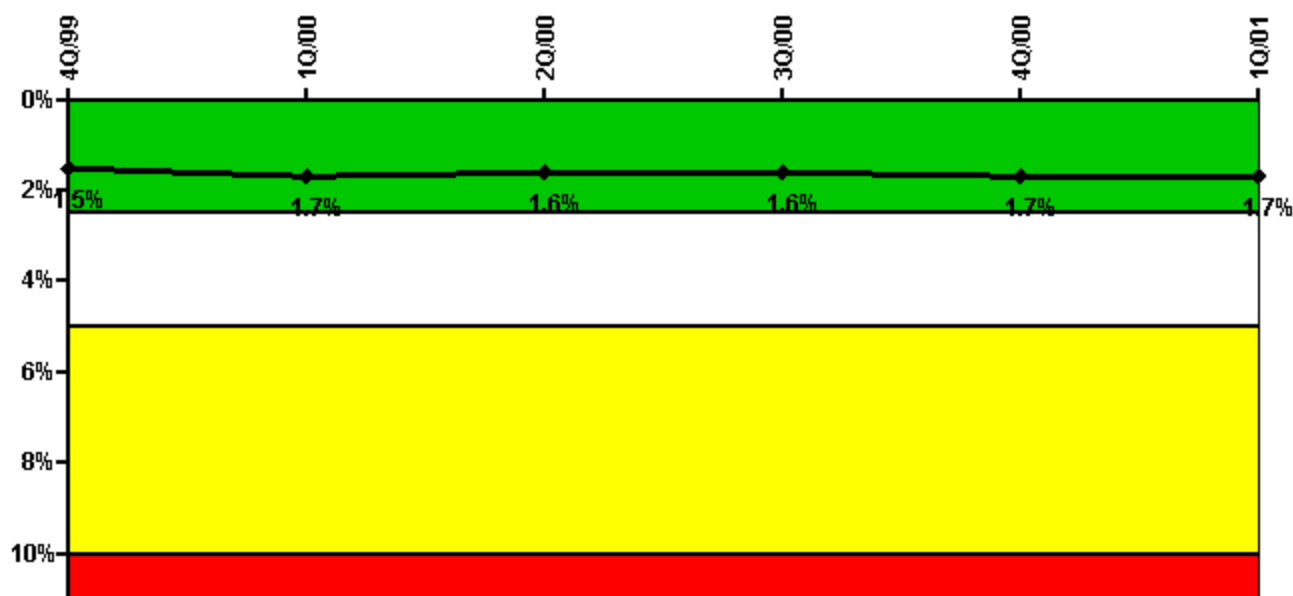
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned power changes	2.0	1.0	1.0	2.0	0	0
Critical hours	872.7	1619.1	2119.0	1785.0	2209.0	2133.8
Indicator value	2.0	3.2	4.1	6.6	3.6	2.5

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



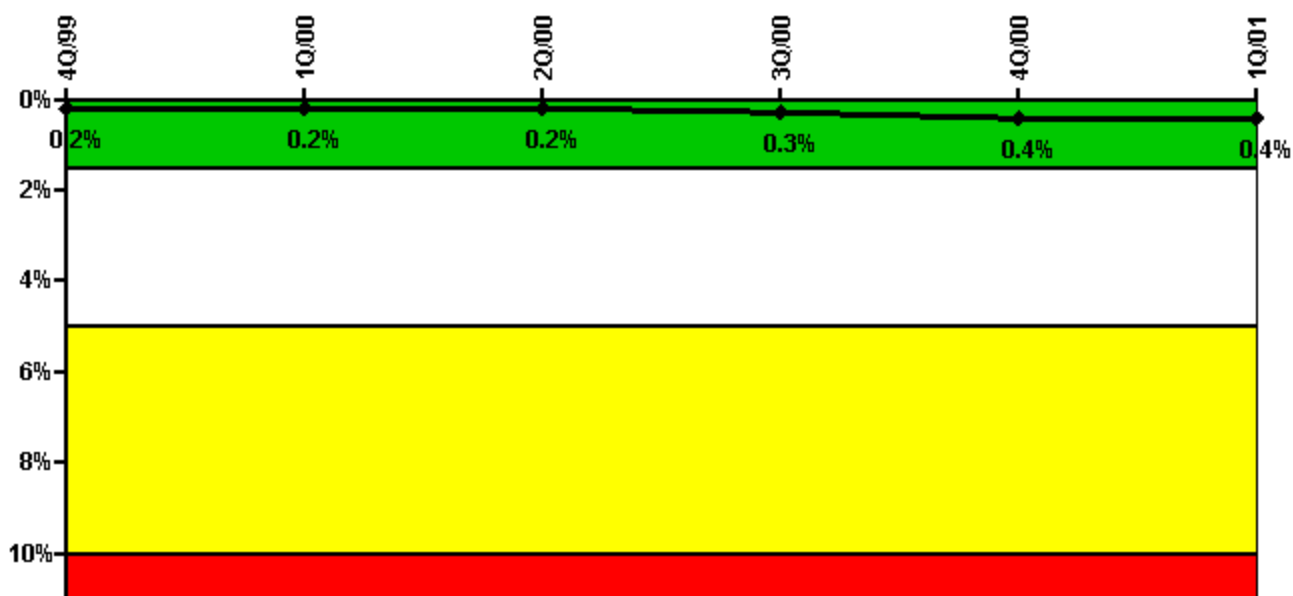
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	42.30	54.12	0.33	0.39	55.88	19.62
Unplanned unavailable hours	34.00	0	17.78	0	49.28	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	0.40	35.05	0.45	0.58	25.68	2.20
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	1.5%	1.7%	1.6%	1.6%	1.7%	1.7%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



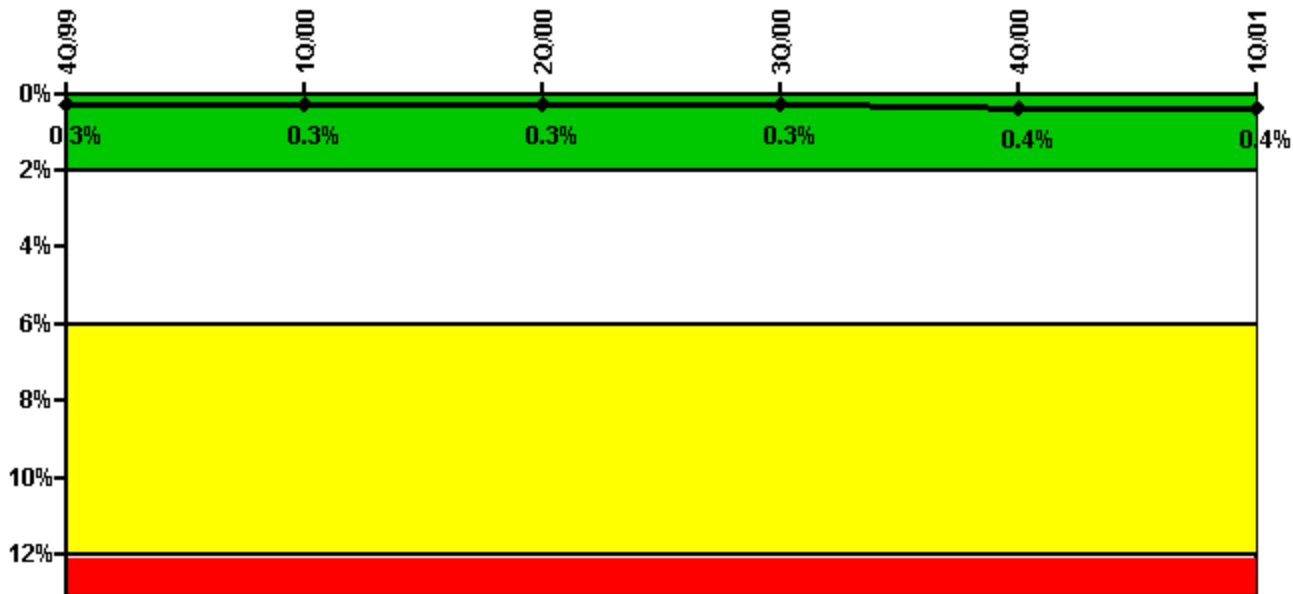
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	2.60	2.10	0.33	25.40	14.52	16.59
Unplanned unavailable hours	0	0	9.89	23.18	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	872.68	1619.10	2183.00	1933.04	2209.00	2146.67
Train 2						
Planned unavailable hours	0	3.26	7.08	0	10.27	3.72
Unplanned unavailable hours	0	0	0	0	0.27	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	872.68	1619.10	2183.00	1933.04	2209.00	2146.67
Indicator value	0.2%	0.2%	0.2%	0.3%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

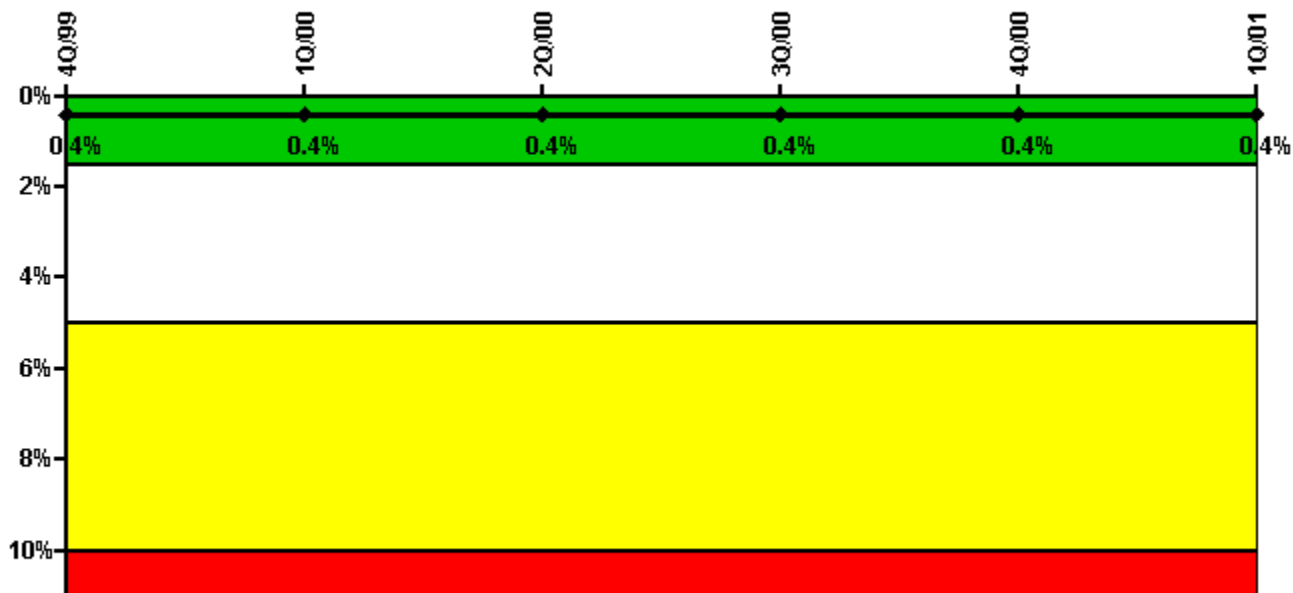
Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	3.22	0	0	16.97	36.22	22.06
Unplanned unavailable hours	0	2.92	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	872.68	1619.10	2183.00	1933.00	2209.00	2146.67
Train 2						
Planned unavailable hours	3.27	0	28.35	0.62	5.64	8.90
Unplanned unavailable hours	22.97	2.92	4.08	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	872.68	1619.10	2183.00	1933.00	2209.00	2146.67
Train 3						
Planned unavailable hours	0	0	5.47	18.15	0.77	9.84
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	872.68	1619.10	2183.00	1933.00	2209.00	2146.67
Indicator value	0.3%	0.3%	0.3%	0.3%	0.4%	0.4%

Licensee Comments:

1Q/01: Data corrected in October 2001 for Trains 2 and 3 due to reviews identifying additional 5.1 hours Train 2 unavailability and additional 8.72 hours Train 3 unavailability in March 2001.

Safety System Unavailability, Residual Heat Removal System



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

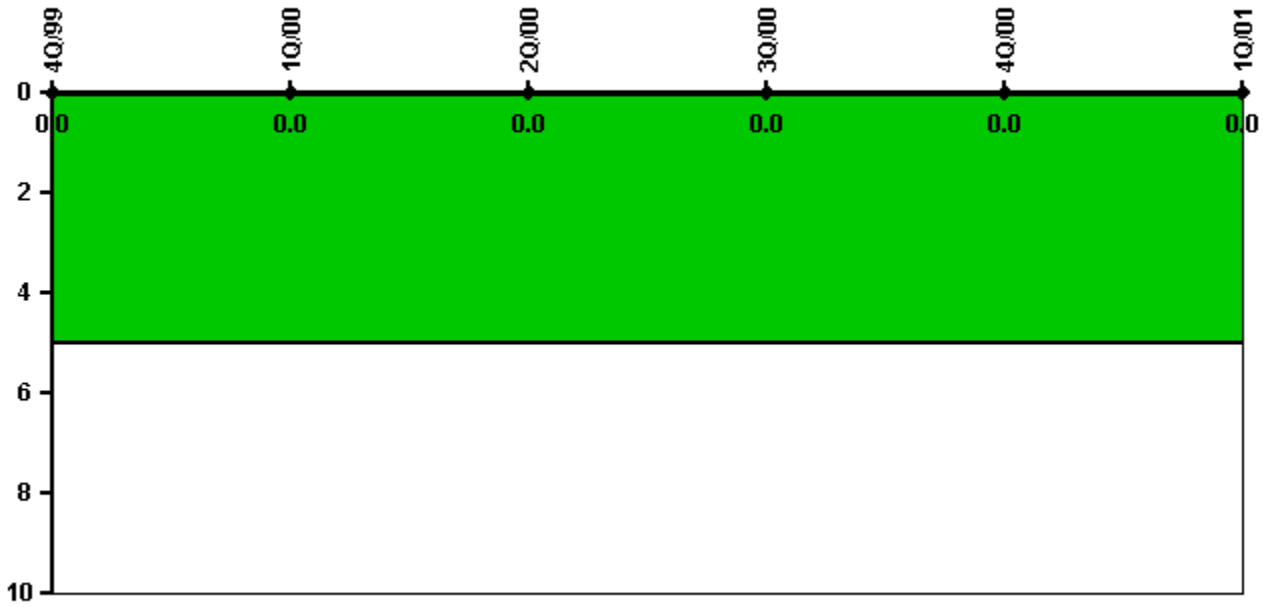
Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0	10.40	0.62	0.60	3.49	1.14
Unplanned unavailable hours	0	0	0.08	0	0	0
Fault exposure hours	57.74	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	1933.04	2209.00	2146.67
Train 2						
Planned unavailable hours	2.82	2.83	0.65	1.80	3.67	1.17
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	1933.04	2209.00	2146.67
Train 3						
Planned unavailable hours	0	10.40	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	57.74	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	0	274.96	0	0
Train 4						
Planned unavailable hours	2.82	2.83	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	0	274.96	0	0

Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Functional Failures (PWR)



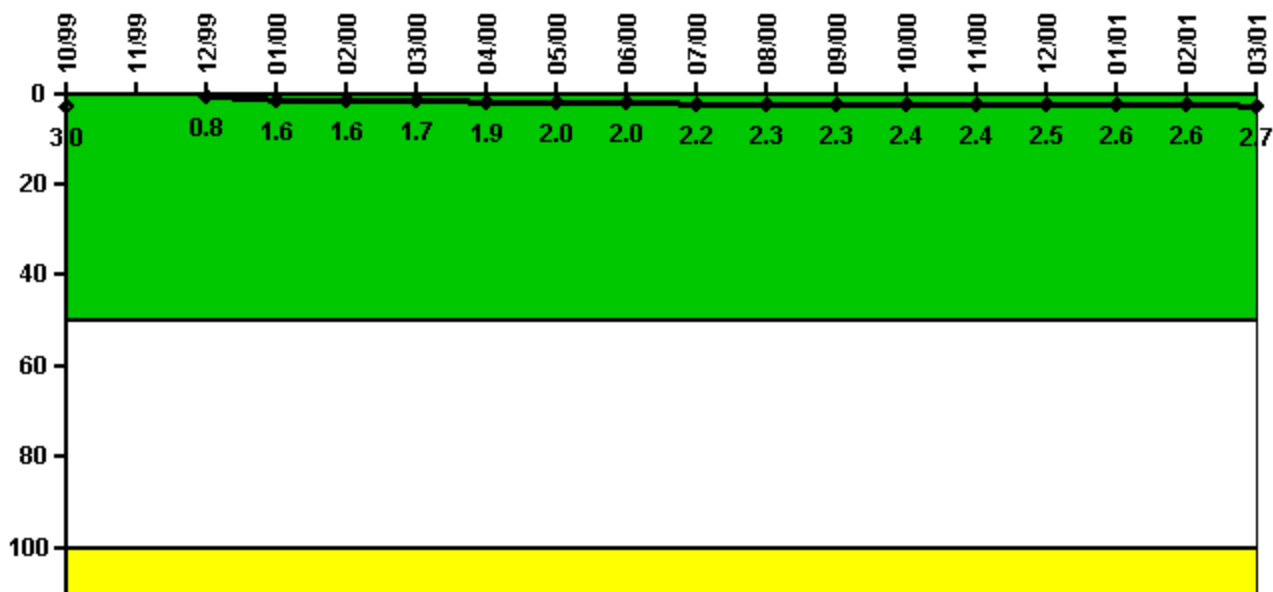
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

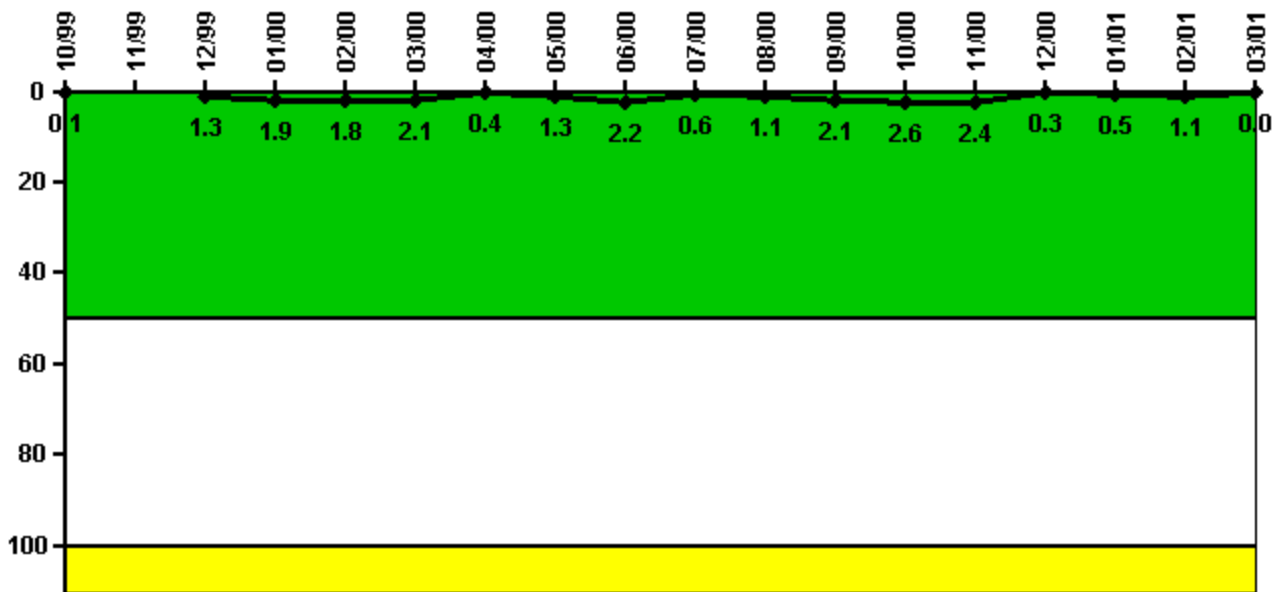
Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.030000	N/A	0.008000	0.015700	0.015800	0.016900	0.018800	0.019800	0.020400	0.021600	0.022700	0.022500
Technical specification limit	1.0	N/A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	3.0	N/A	0.8	1.6	1.6	1.7	1.9	2.0	2.0	2.2	2.3	2.3

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.024000	0.024300	0.024800	0.026300	0.025600	0.026500
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	2.4	2.4	2.5	2.6	2.6	2.7

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

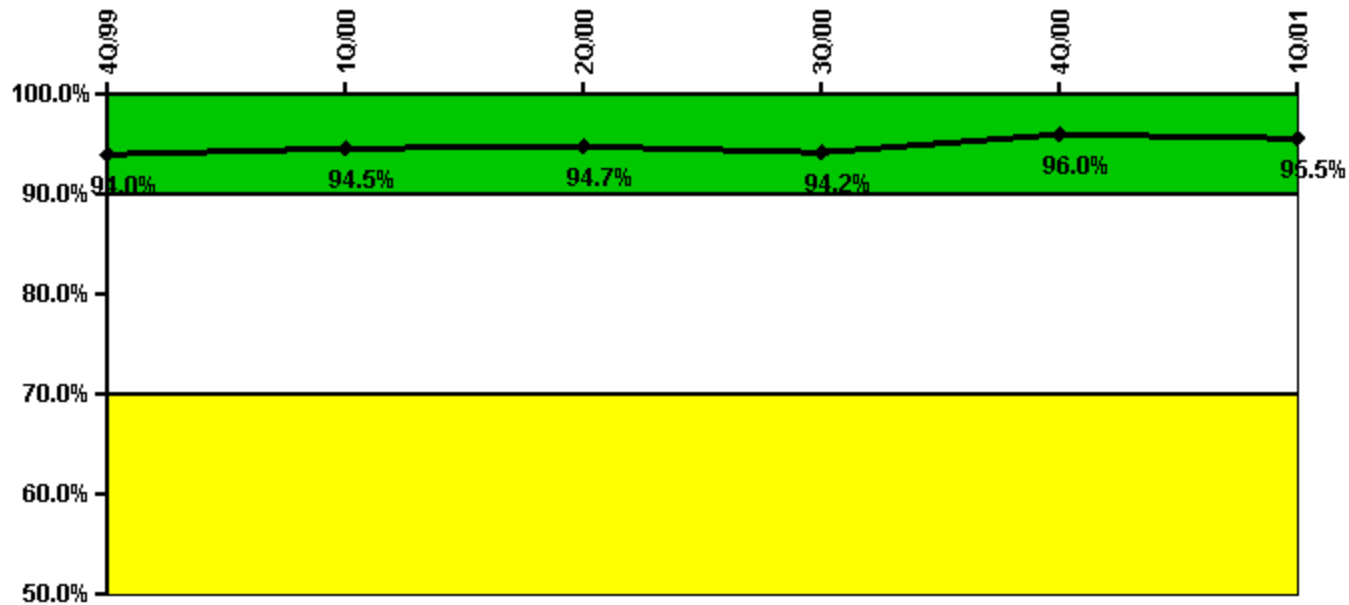
Notes

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	0.010	N/A	0.127	0.187	0.177	0.214	0.041	0.128	0.216	0.060	0.112	0.214
Technical specification limit	10.0	N/A	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	N/A	1.3	1.9	1.8	2.1	0.4	1.3	2.2	0.6	1.1	2.1

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	0.261	0.241	0.030	0.047	0.112	0
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.6	2.4	0.3	0.5	1.1	0

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

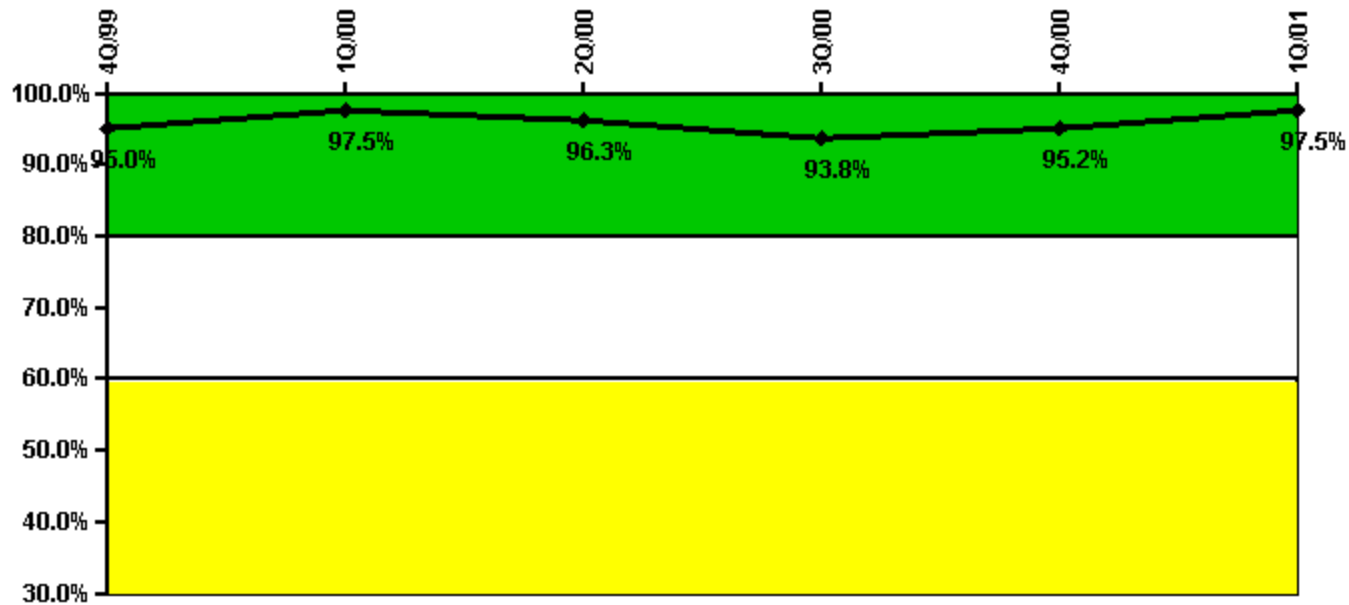
Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful opportunities	0	14.0	21.0	5.0	10.0	13.0
Total opportunities	0	14.0	22.0	6.0	10.0	14.0
Indicator value	94.0%	94.5%	94.7%	94.2%	96.0%	95.5%

Licensee Comments:

3Q/00: Self-assessment disclosed administrative error in data reduction. Original report of 9 successes for 10 opportunities should have been 5 successes for 6 opportunities. Change has no effect on PI color.

1Q/00: Self-assessment disclosed that three opportunities/successes had been credited for other than initial classification/notifications. The revised number reflects the reduction (17 to 14). This has negligible effect on the PI value.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

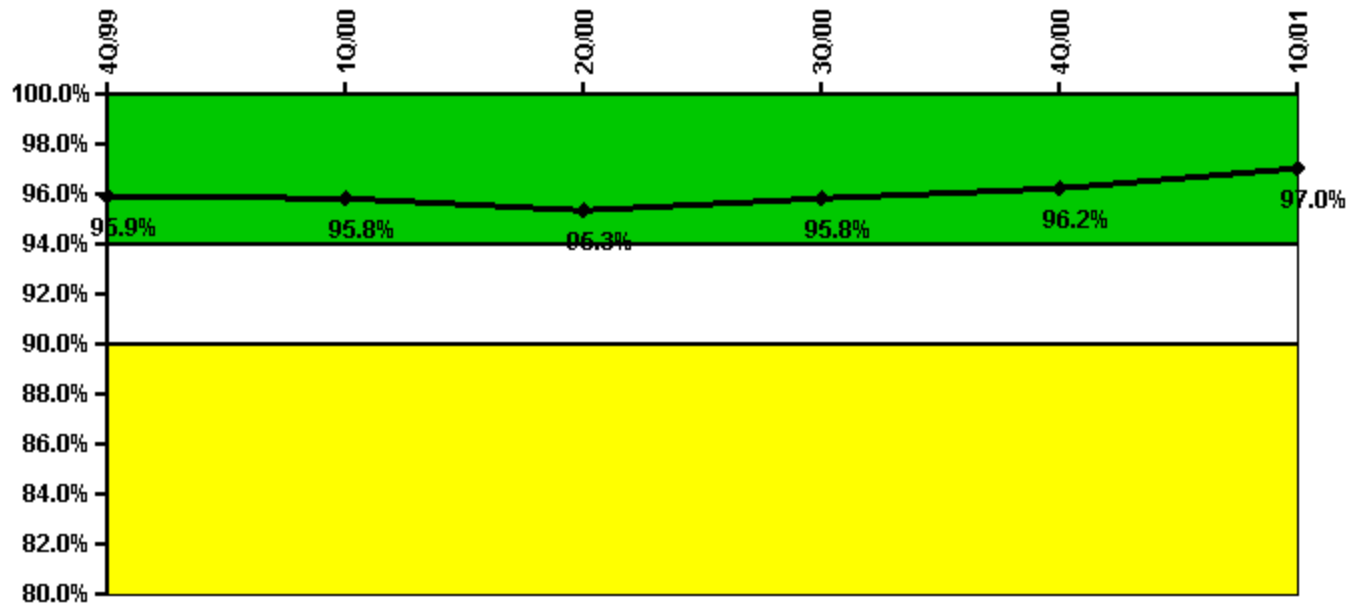
Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Participating Key personnel	76.0	79.0	78.0	76.0	79.0	78.0
Total Key personnel	80.0	81.0	81.0	81.0	83.0	80.0
Indicator value	95.0%	97.5%	96.3%	93.8%	95.2%	97.5%

Licensee Comments:

4Q/00: Self-assessment disclosed administrative error in data reduction. Original report of 80 of 83 members meeting standard should have been 79 of 83. No effect on PI color.

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	211	203	239	244	246	249
Total sirens-tests	219	213	252	252	252	252
Indicator value	95.9%	95.8%	95.3%	95.8%	96.2%	97.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



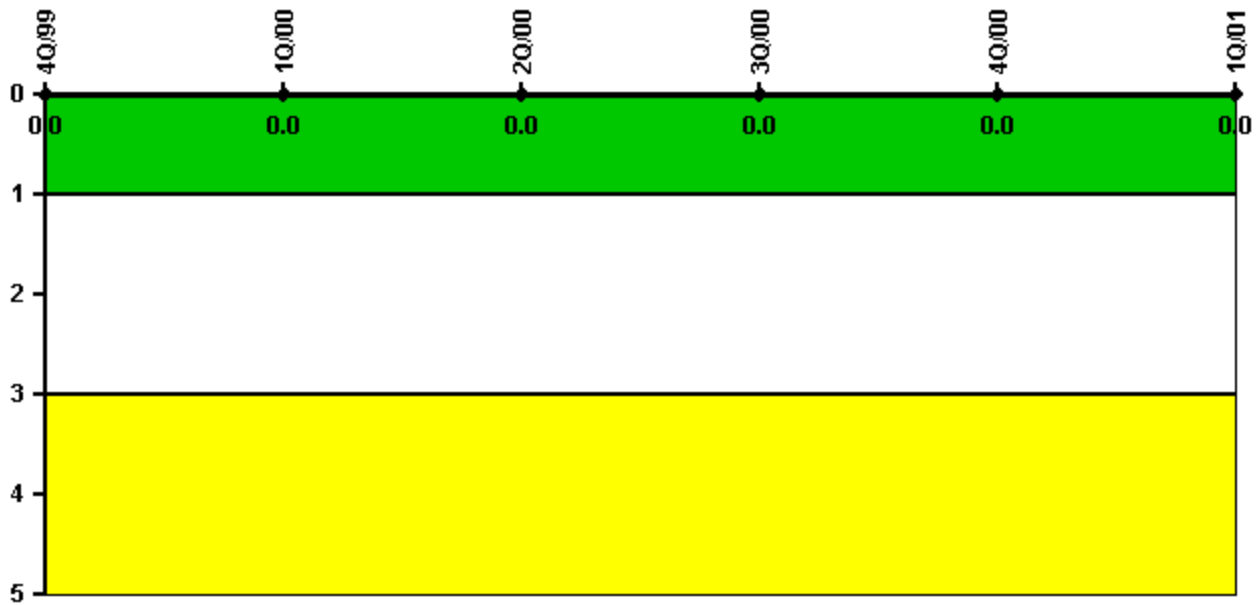
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
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	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



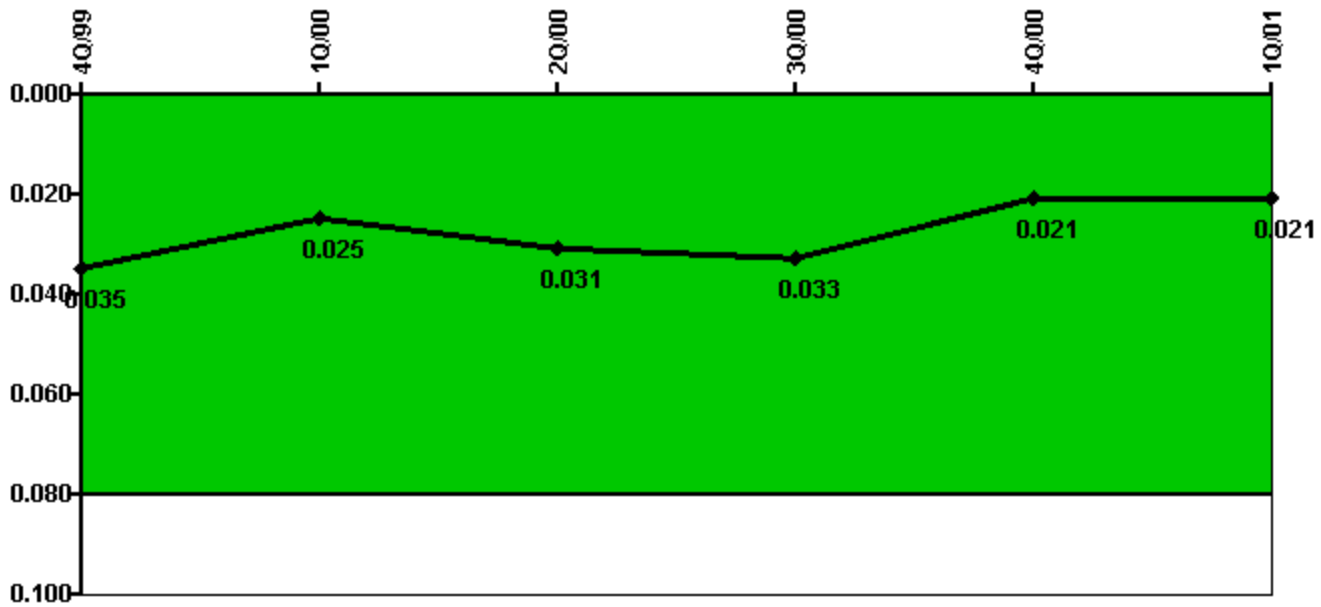
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
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	499.15	57.81	201.00	81.82	196.99	64.37
CCTV compensatory hours	0	0	0	0	0	0
IDS normalization factor	1.45	1.45	1.45	1.45	1.45	1.45
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.035	0.025	0.031	0.033	0.021	0.021

Licensee Comments: none

Personnel Screening Program



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

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

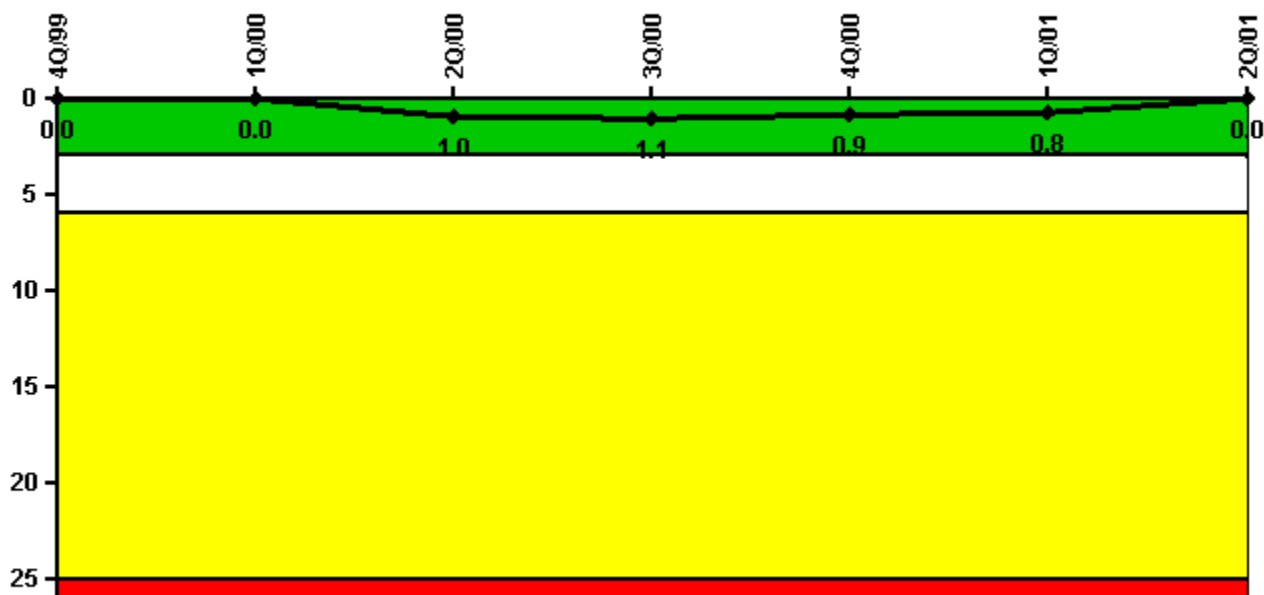
Last Modified: March 28, 2002

Palisades

2Q/2001 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



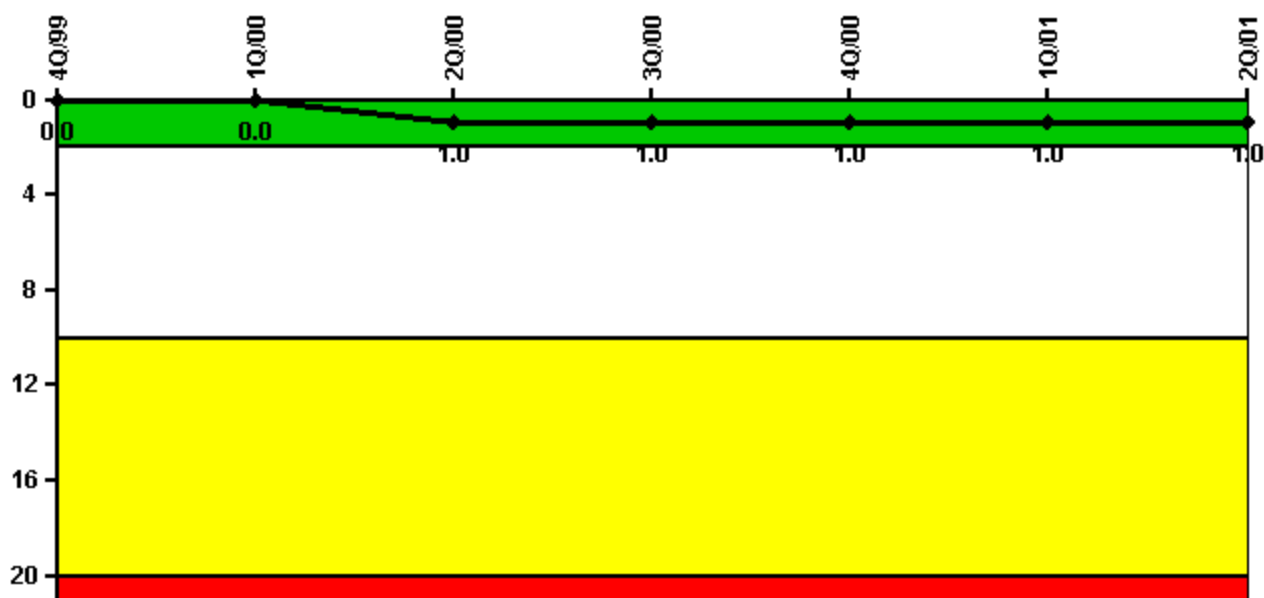
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	0
Critical hours	872.7	1619.1	2119.0	1785.0	2209.0	2133.8	1050.3
Indicator value	0	0	1.0	1.1	0.9	0.8	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



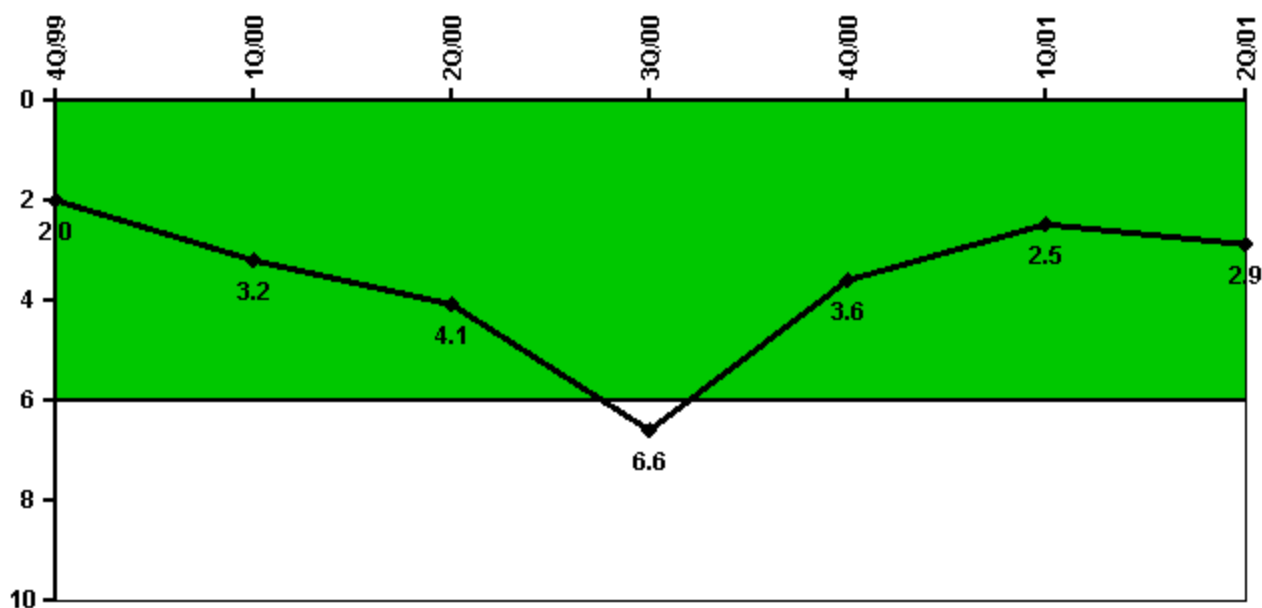
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



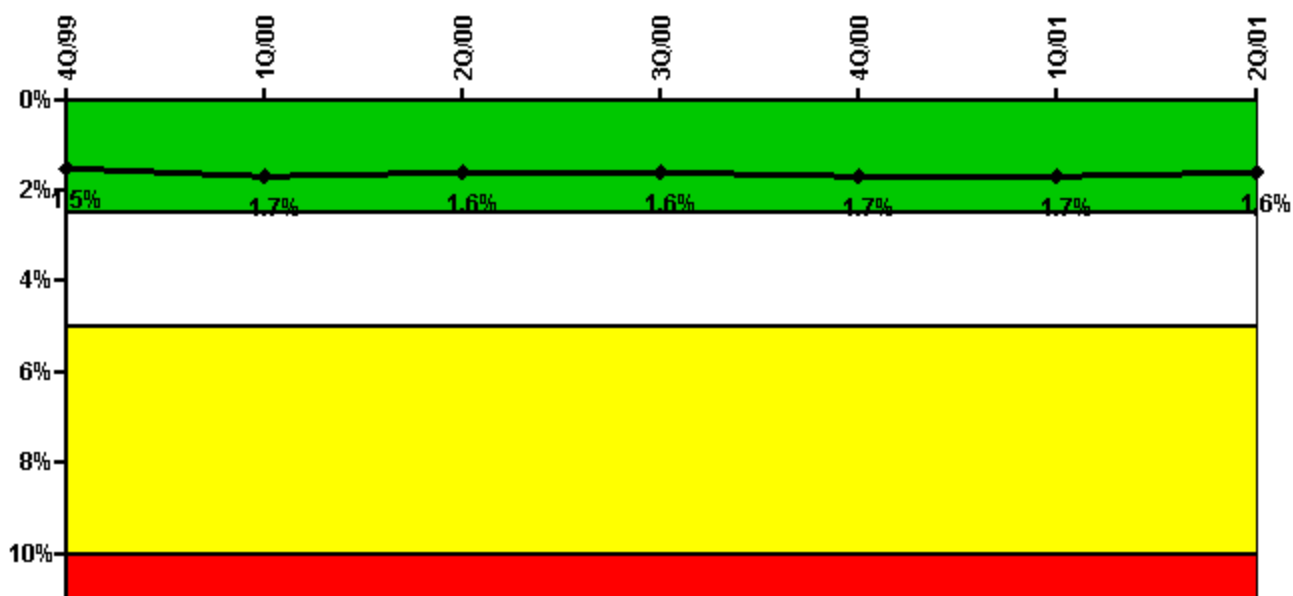
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned power changes	2.0	1.0	1.0	2.0	0	0	1.0
Critical hours	872.7	1619.1	2119.0	1785.0	2209.0	2133.8	1050.3
Indicator value	2.0	3.2	4.1	6.6	3.6	2.5	2.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



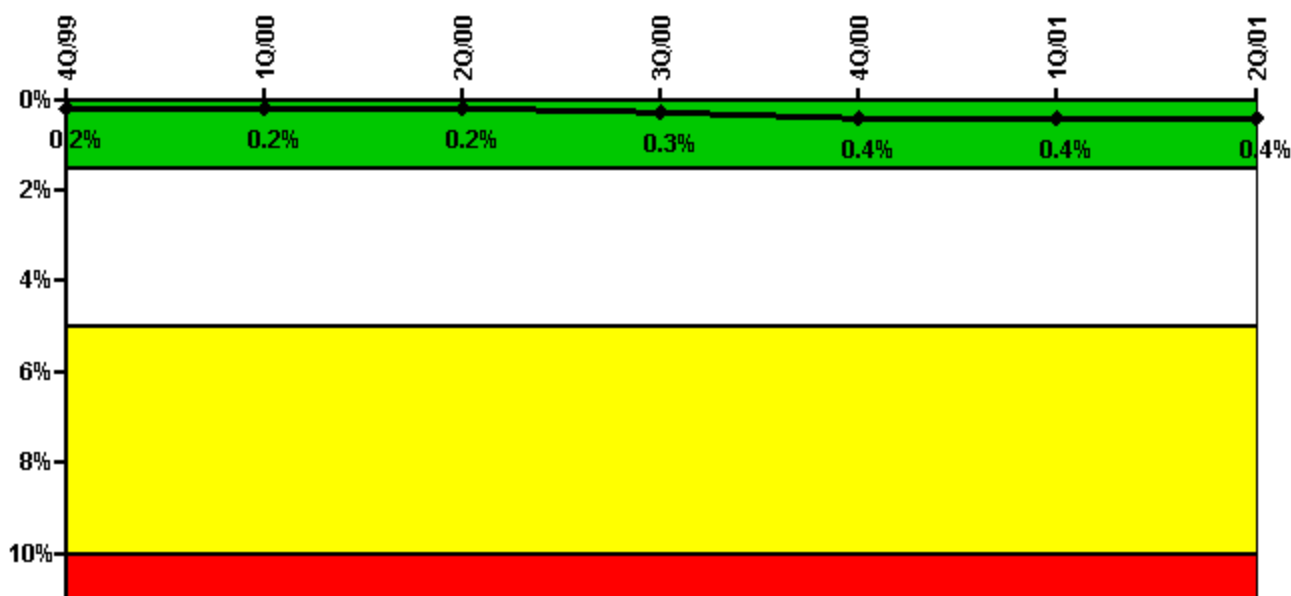
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	42.30	54.12	0.33	0.39	55.88	19.62	0.67
Unplanned unavailable hours	34.00	0	17.78	0	49.28	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	0.40	35.05	0.45	0.58	25.68	2.20	0.28
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	1.5%	1.7%	1.6%	1.6%	1.7%	1.7%	1.6%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



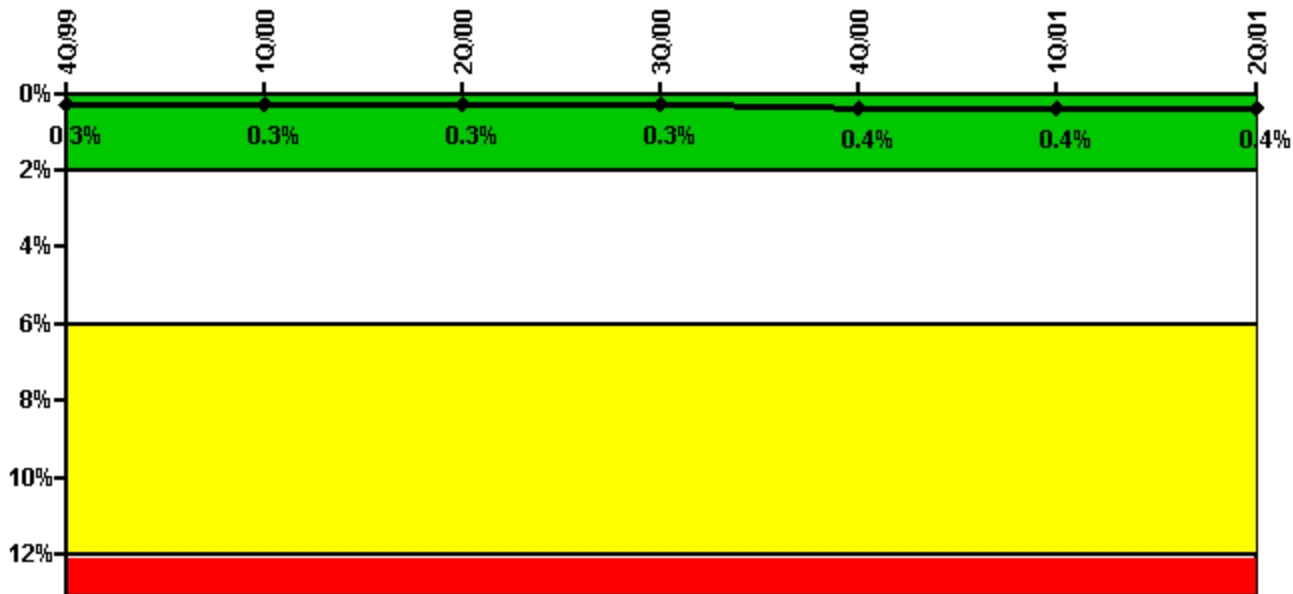
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	2.60	2.10	0.33	25.40	14.52	16.59	0.27
Unplanned unavailable hours	0	0	9.89	23.18	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	872.68	1619.10	2183.00	1933.04	2209.00	2146.67	1154.80
Train 2							
Planned unavailable hours	0	3.26	7.08	0	10.27	3.72	0
Unplanned unavailable hours	0	0	0	0	0.27	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	872.68	1619.10	2183.00	1933.04	2209.00	2146.67	1154.80
Indicator value	0.2%	0.2%	0.2%	0.3%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

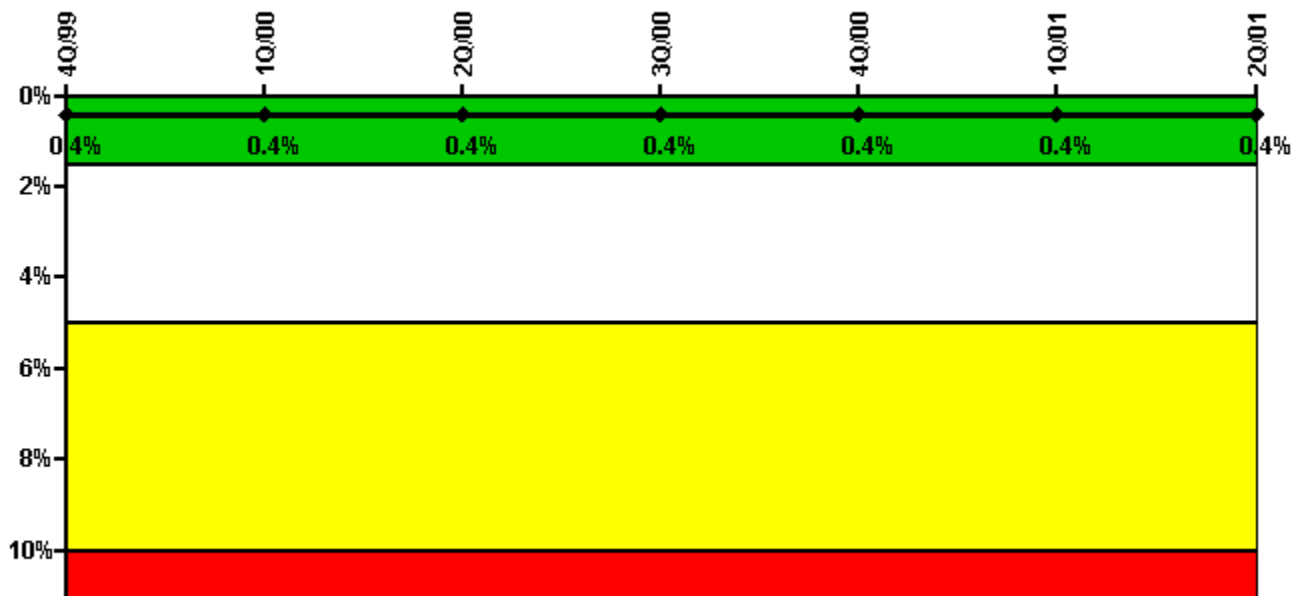
Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	3.22	0	0	16.97	36.22	22.06	0.73
Unplanned unavailable hours	0	2.92	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	872.68	1619.10	2183.00	1933.00	2209.00	2146.67	1154.80
Train 2							
Planned unavailable hours	3.27	0	28.35	0.62	5.64	8.90	0
Unplanned unavailable hours	22.97	2.92	4.08	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	872.68	1619.10	2183.00	1933.00	2209.00	2146.67	1072.40
Train 3							
Planned unavailable hours	0	0	5.47	18.15	0.77	9.84	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	872.68	1619.10	2183.00	1933.00	2209.00	2146.67	1154.80
Indicator value	0.3%	0.3%	0.3%	0.3%	0.4%	0.4%	0.4%

Licensee Comments:

1Q/01: Data corrected in October 2001 for Trains 2 and 3 due to reviews identifying additional 5.1 hours Train 2 unavailability and additional 8.72 hours Train 3 unavailability in March 2001.

Safety System Unavailability, Residual Heat Removal System



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

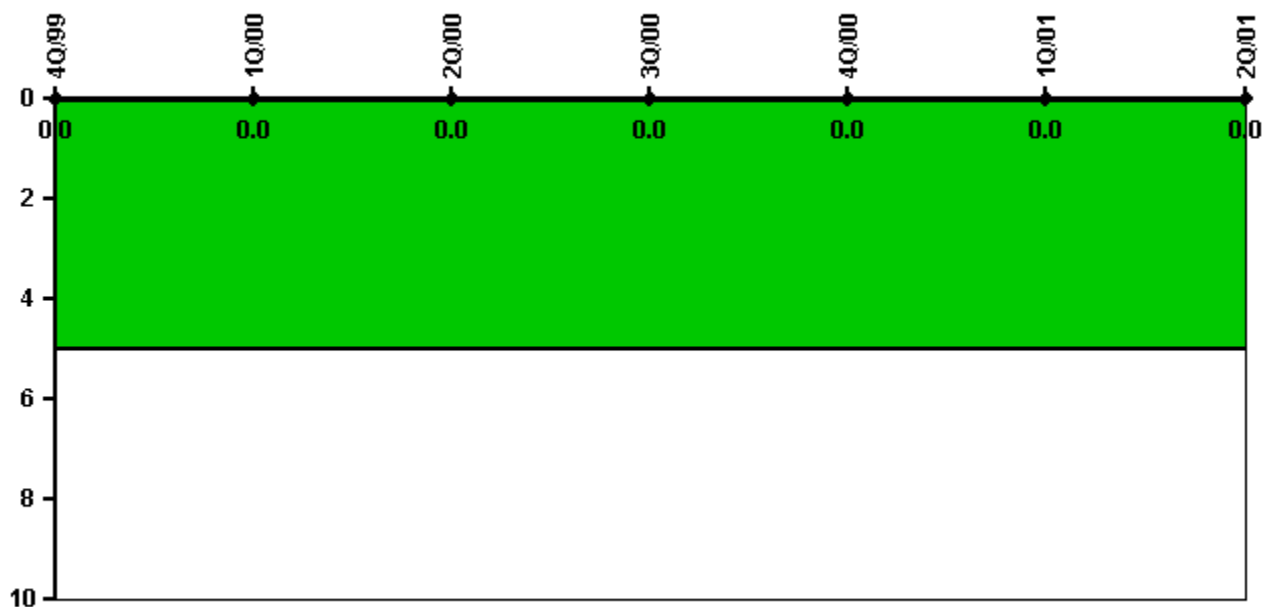
Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	0	10.40	0.62	0.60	3.49	1.14	0.83
Unplanned unavailable hours	0	0	0.08	0	0	0	0
Fault exposure hours	57.74	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	1933.04	2209.00	2146.67	1154.80
Train 2							
Planned unavailable hours	2.82	2.83	0.65	1.80	3.67	1.17	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	1933.04	2209.00	2146.67	1154.80
Train 3							
Planned unavailable hours	0	10.40	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	57.74	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	0	274.96	0	0	900.70
Train 4							
Planned unavailable hours	2.82	2.83	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	0	274.96	0	0	789.90

Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Functional Failures (PWR)



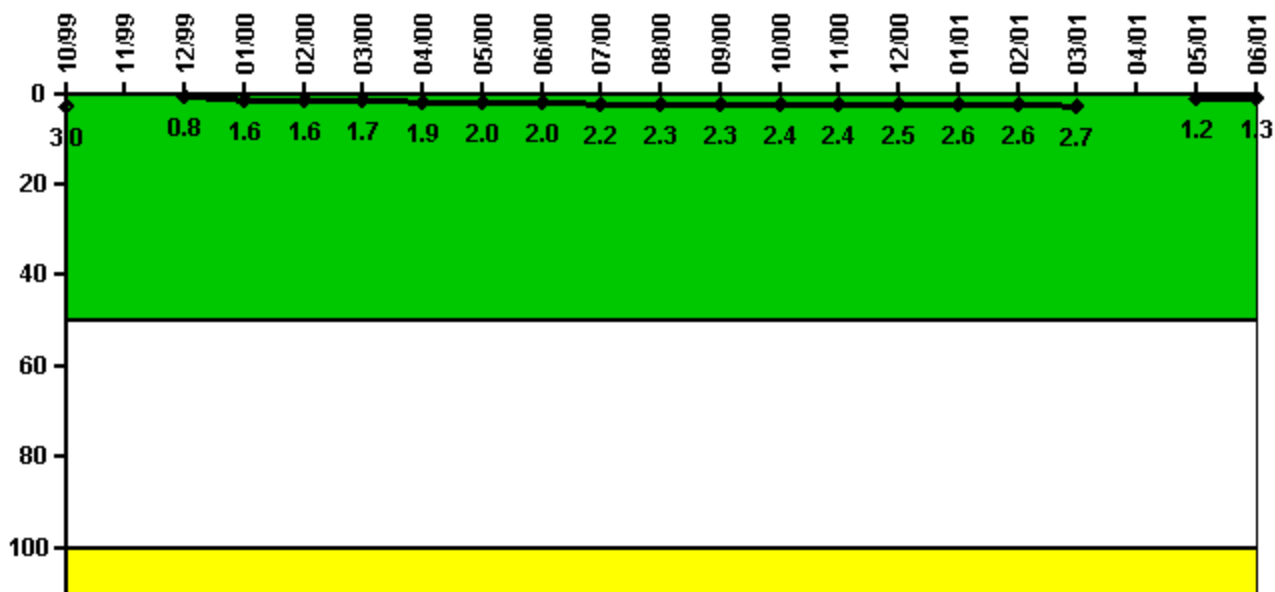
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

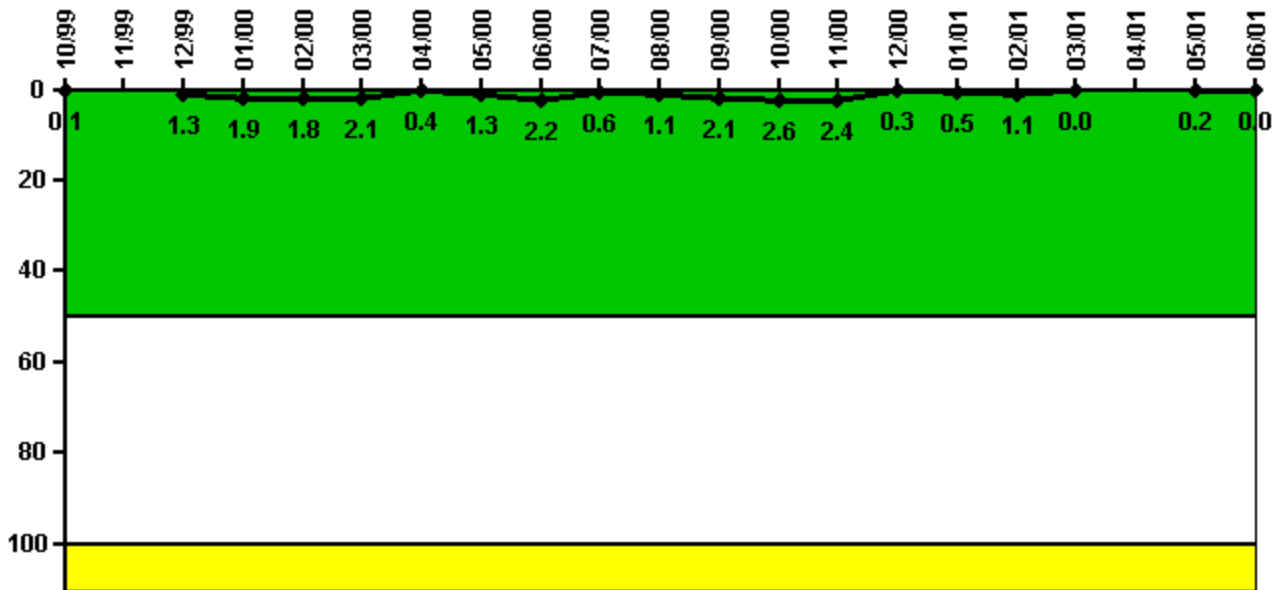
Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.030000	N/A	0.008000	0.015700	0.015800	0.016900	0.018800	0.019800	0.020400	0.021600	0.022700	0.022500
Technical specification limit	1.0	N/A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	3.0	N/A	0.8	1.6	1.6	1.7	1.9	2.0	2.0	2.2	2.3	2.3

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.024000	0.024300	0.024800	0.026300	0.025600	0.026500	N/A	0.012300	0.013000
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	N/A	1.0	1.0
Indicator value	2.4	2.4	2.5	2.6	2.6	2.7	N/A	1.2	1.3

Licensee Comments:

6/01: No value in April because unit was shut down for refueling.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

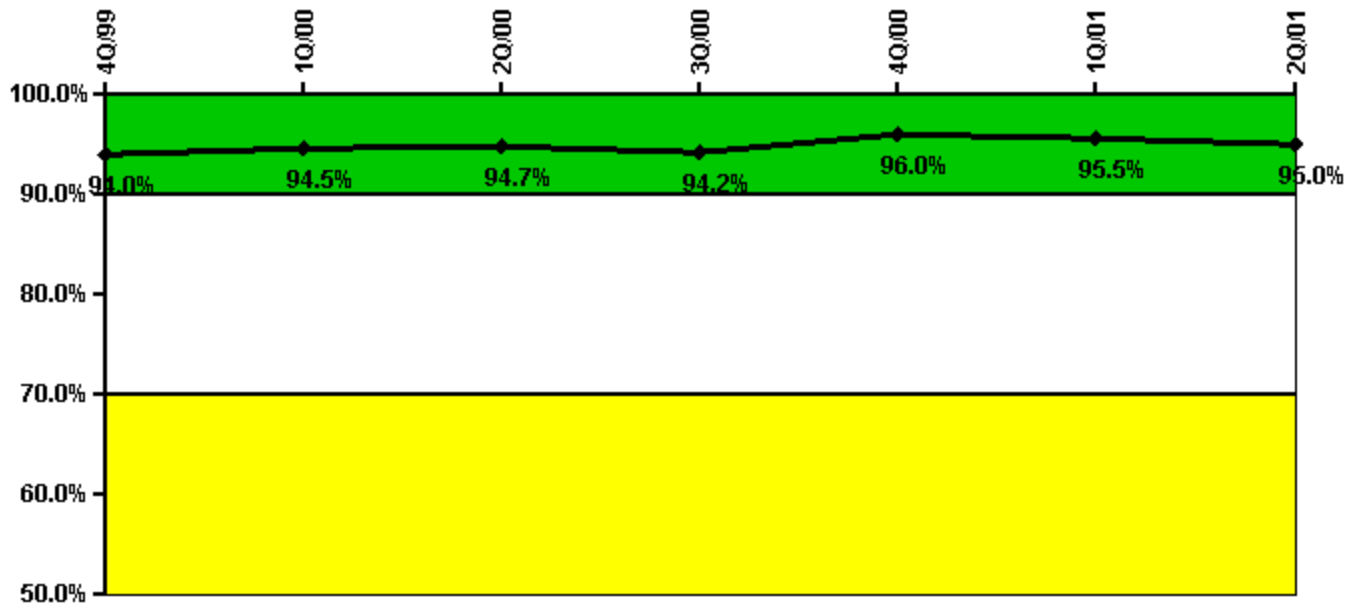
Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.010	N/A	0.127	0.187	0.177	0.214	0.041	0.128	0.216	0.060	0.112	0.214
Technical specification limit	10.0	N/A	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	N/A	1.3	1.9	1.8	2.1	0.4	1.3	2.2	0.6	1.1	2.1

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	0.261	0.241	0.030	0.047	0.112	0	N/A	0.015	0.003
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	N/A	10.0	10.0
Indicator value	2.6	2.4	0.3	0.5	1.1	0	N/A	0.2	0

Licensee Comments:

6/01: No value in April because unit was shut down for refueling.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

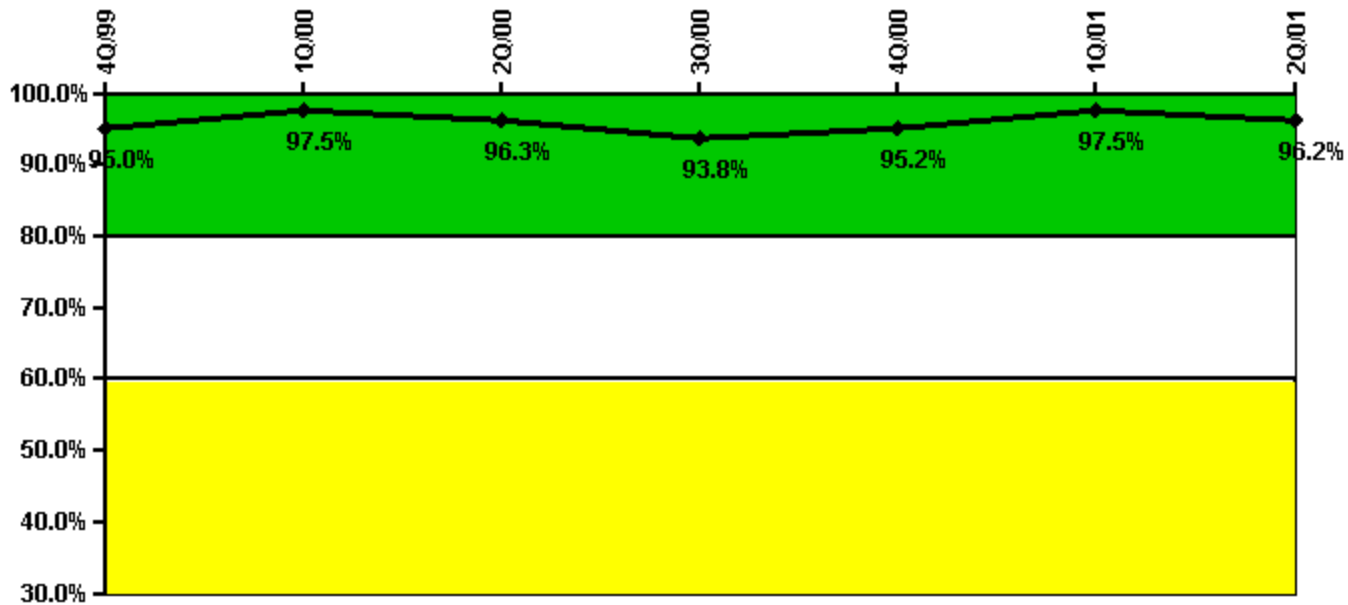
Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Successful opportunities	0	14.0	21.0	5.0	10.0	13.0	0
Total opportunities	0	14.0	22.0	6.0	10.0	14.0	0
Indicator value	94.0%	94.5%	94.7%	94.2%	96.0%	95.5%	95.0%

Licensee Comments:

1Q/00: Self-assessment disclosed that three opportunities/successes had been credited for other than initial classification/notifications. The revised number reflects the reduction (17 to 14). This has negligible effect on the PI value.

ERO Drill Participation



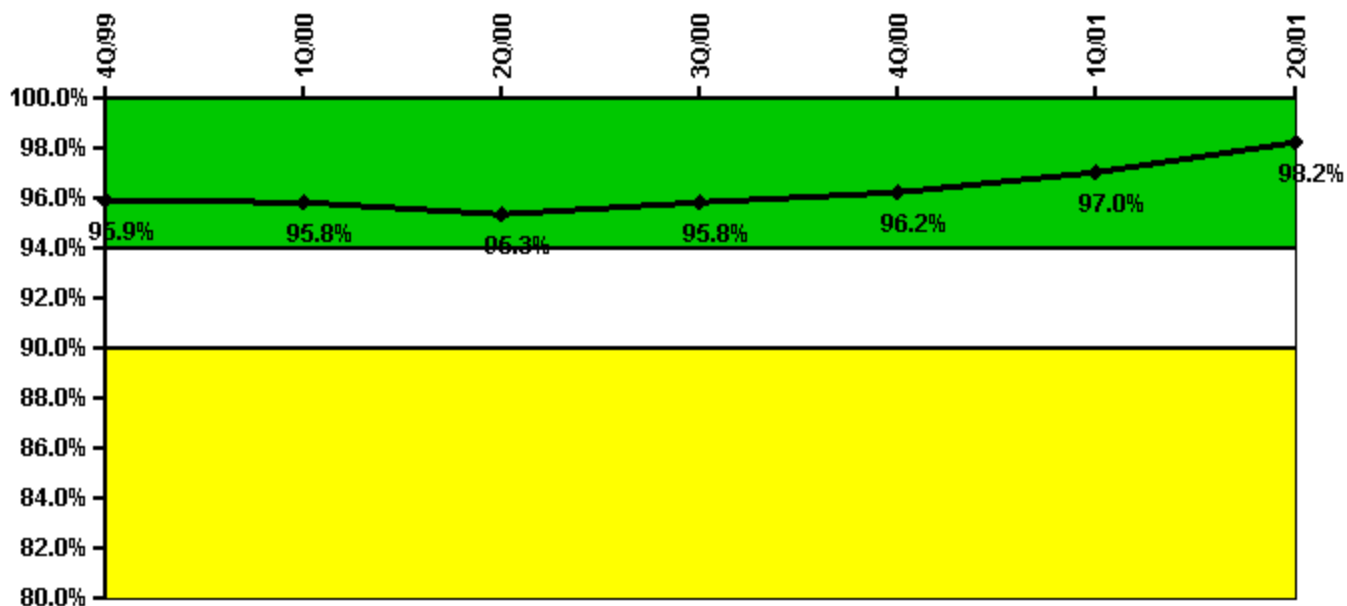
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Participating Key personnel	76.0	79.0	78.0	76.0	79.0	78.0	76.0
Total Key personnel	80.0	81.0	81.0	81.0	83.0	80.0	79.0
Indicator value	95.0%	97.5%	96.3%	93.8%	95.2%	97.5%	96.2%

Licensee Comments: none

Alert & Notification System



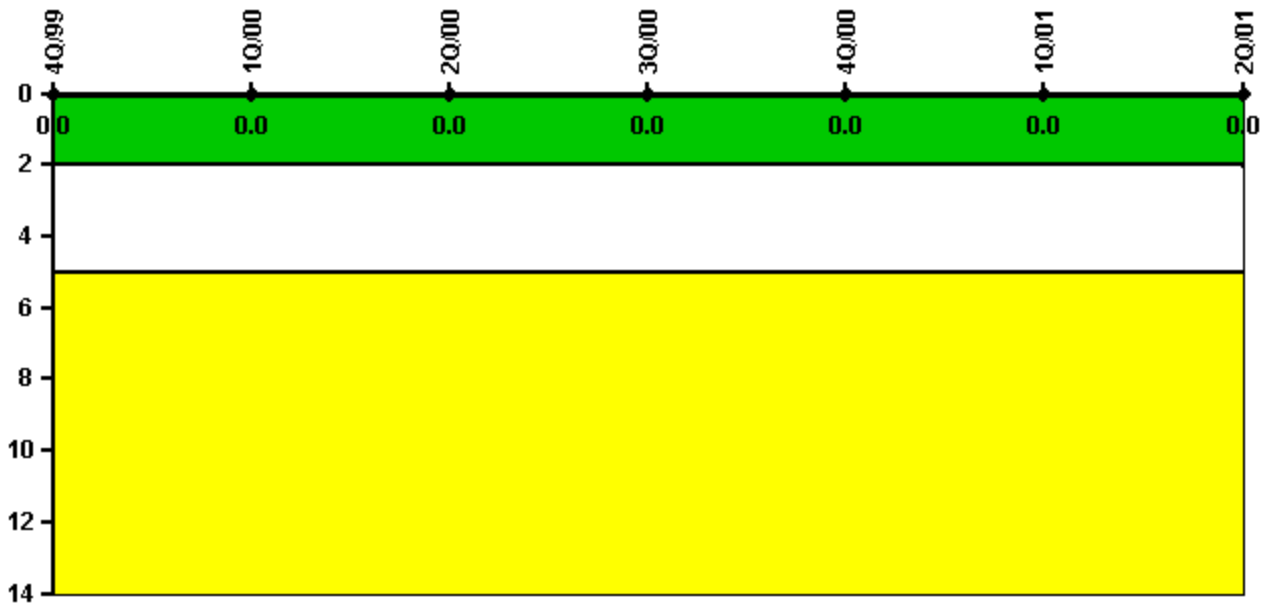
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Successful siren-tests	211	203	239	244	246	249	251
Total sirens-tests	219	213	252	252	252	252	252
Indicator value	95.9%	95.8%	95.3%	95.8%	96.2%	97.0%	98.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness



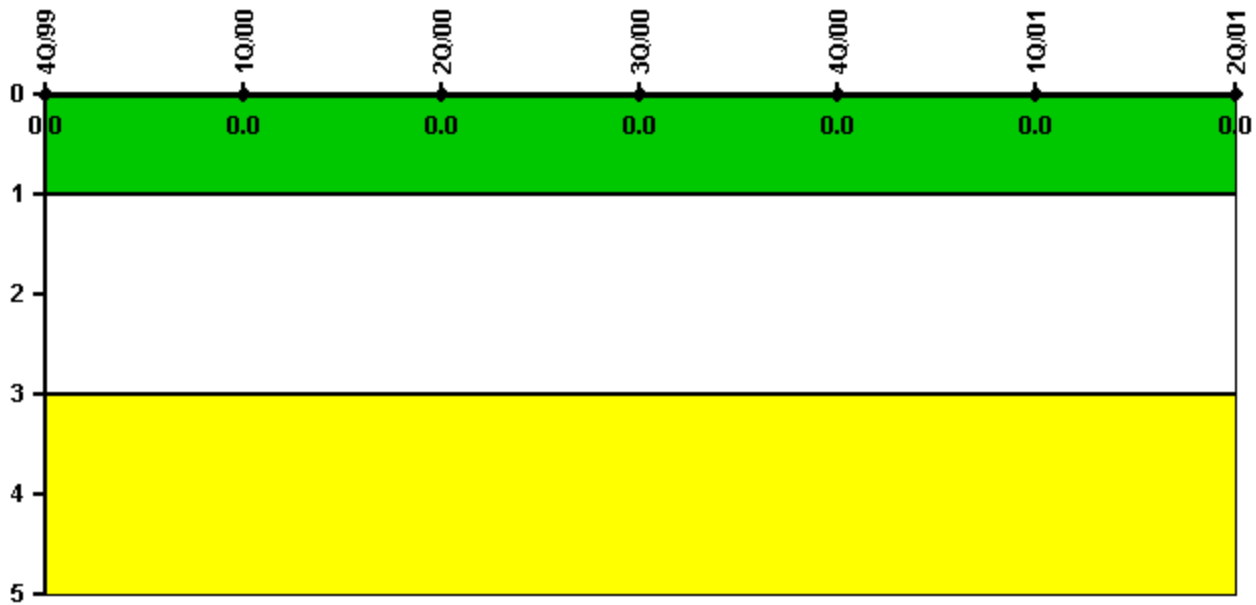
Thresholds: White > 2.0 Yellow > 5.0

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	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



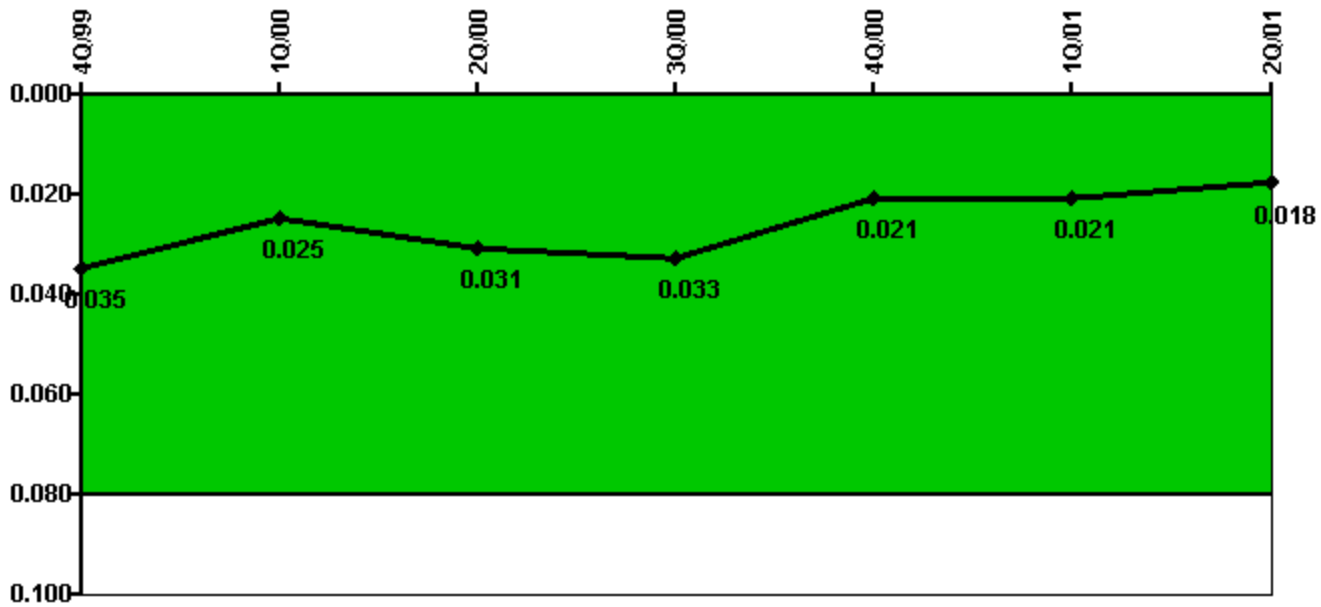
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/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



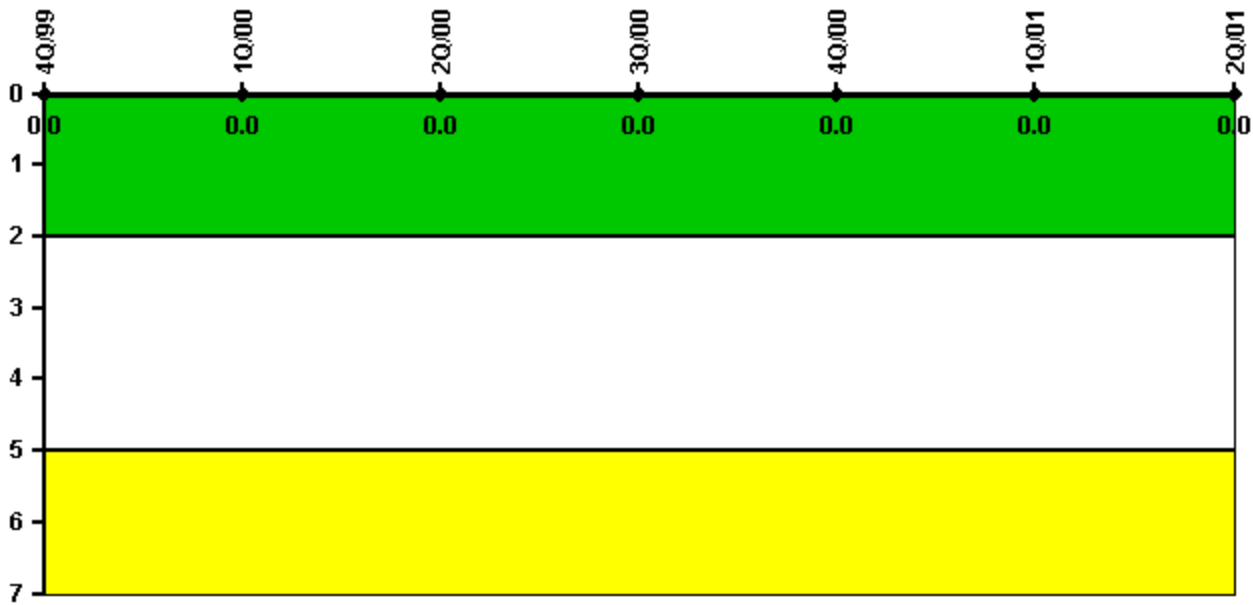
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
IDS compensatory hours	499.15	57.81	201.00	81.82	196.99	64.37	126.28
CCTV compensatory hours	0	0	0	0	0	0	0
IDS normalization factor	1.45	1.45	1.45	1.45	1.45	1.45	1.45
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.035	0.025	0.031	0.033	0.021	0.021	0.018

Licensee Comments: none

Personnel Screening Program



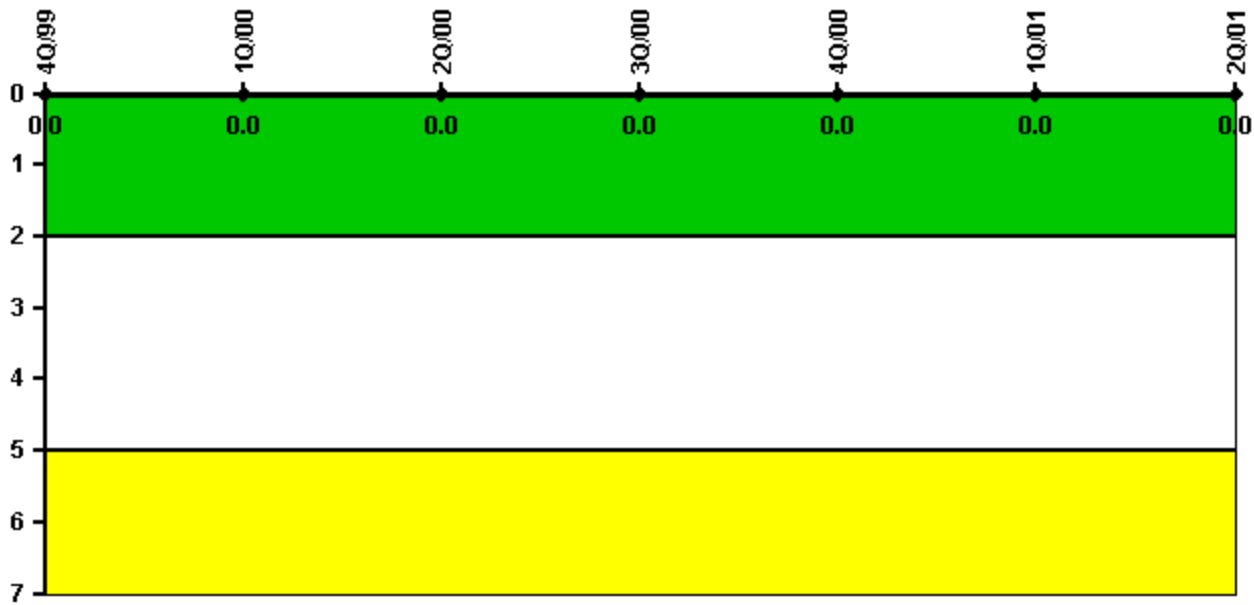
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

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

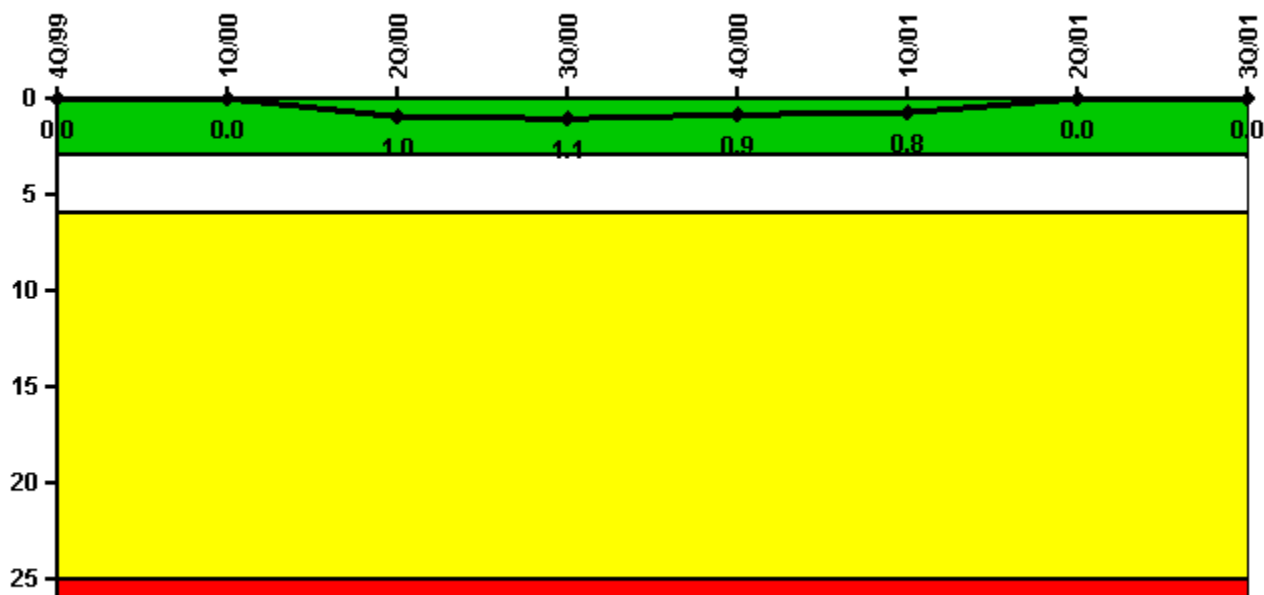
Last Modified: March 27, 2002

Palisades

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

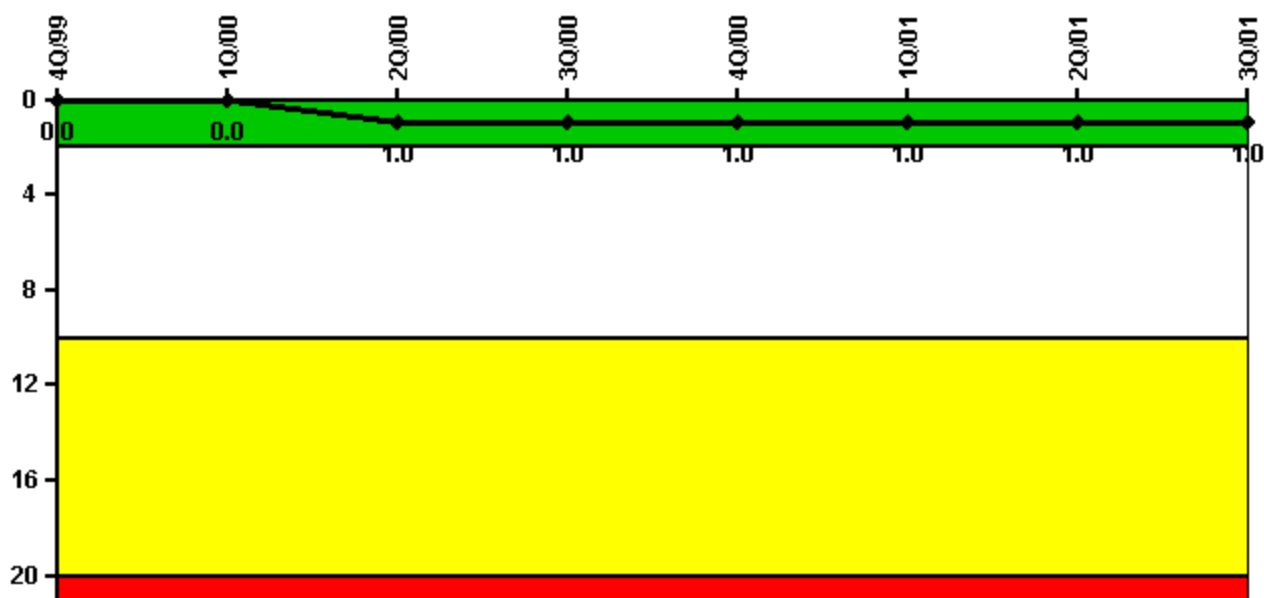
Notes

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	1.0	0	0	0	0	0
Critical hours	872.7	1619.1	2119.0	1785.0	2209.0	2133.8	1050.3	0
Indicator value	0	0	1.0	1.1	0.9	0.8	0	0

Licensee Comments:

3Q/01: Extended maintenance outage began June 21, 2001.

Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

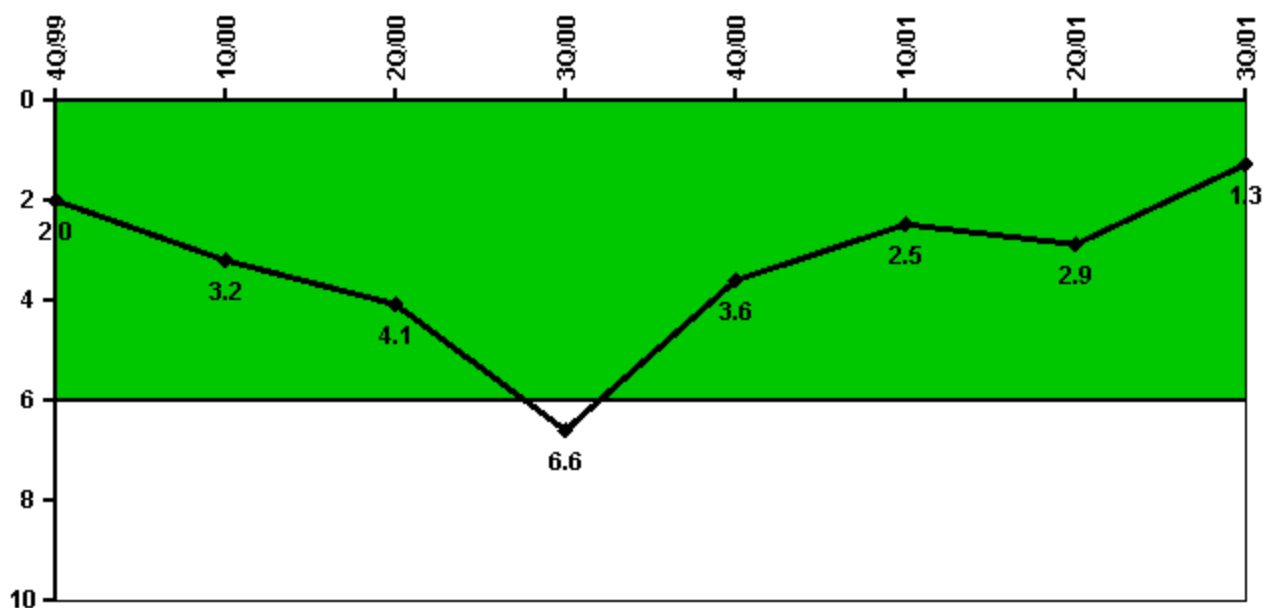
Notes

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	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:

3Q/01: Extended maintenance outage began June 21, 2001.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

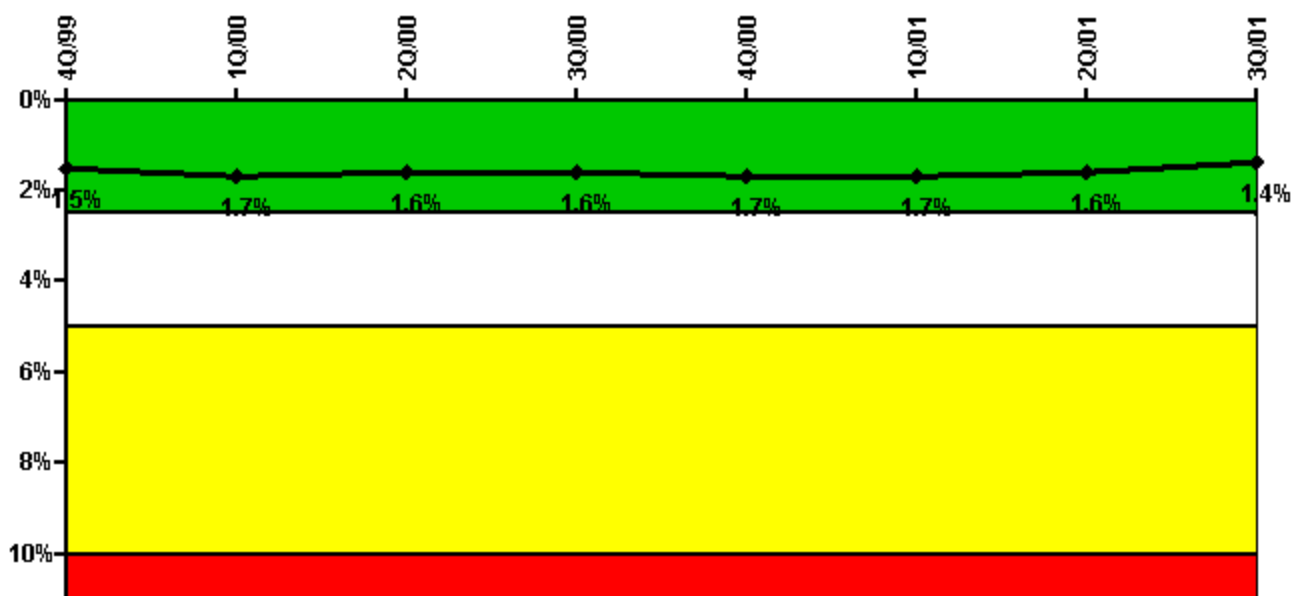
Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned power changes	2.0	1.0	1.0	2.0	0	0	1.0	0
Critical hours	872.7	1619.1	2119.0	1785.0	2209.0	2133.8	1050.3	0
Indicator value	2.0	3.2	4.1	6.6	3.6	2.5	2.9	1.3

Licensee Comments:

3Q/01: Extended maintenance outage began June 21, 2001.

Safety System Unavailability, Emergency AC Power



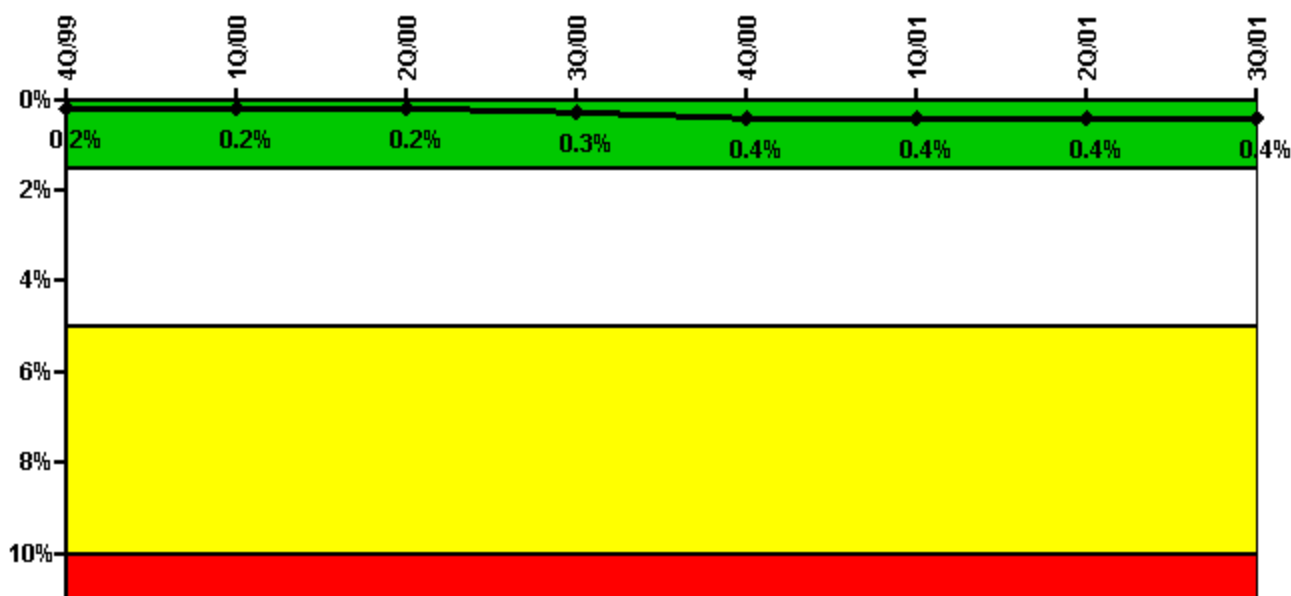
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

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	42.30	54.12	0.33	0.39	55.88	19.62	0.67	0
Unplanned unavailable hours	34.00	0	17.78	0	49.28	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0.40	35.05	0.45	0.58	25.68	2.20	0.28	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	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	1.5%	1.7%	1.6%	1.6%	1.7%	1.7%	1.6%	1.4%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



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

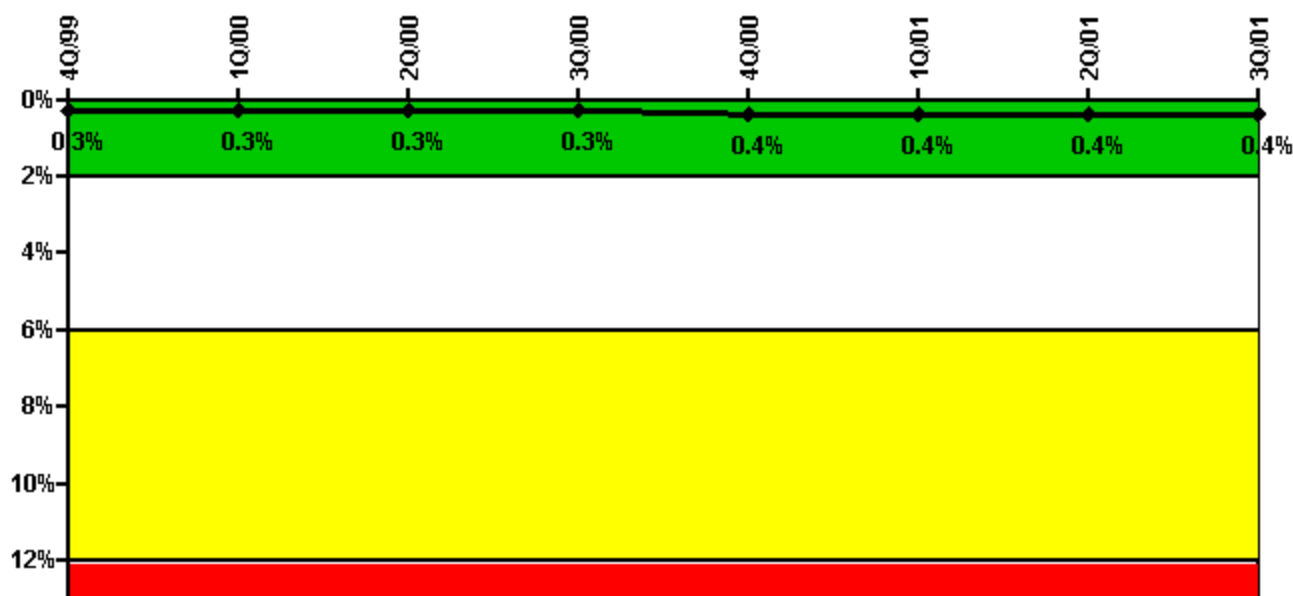
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	2.60	2.10	0.33	25.40	14.52	16.59	0.27	0
Unplanned unavailable hours	0	0	9.89	23.18	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	872.68	1619.10	2183.00	1933.04	2209.00	2146.67	1154.80	0
Train 2								
Planned unavailable hours	0	3.26	7.08	0	10.27	3.72	0	0
Unplanned unavailable hours	0	0	0	0	0.27	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	872.68	1619.10	2183.00	1933.04	2209.00	2146.67	1154.80	0
Indicator value	0.2%	0.2%	0.2%	0.3%	0.4%	0.4%	0.4%	0.4%

Licensee Comments:

3Q/01: Extended maintenance outage began June 21, 2001. HPSI trains not required in shutdown modes.

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

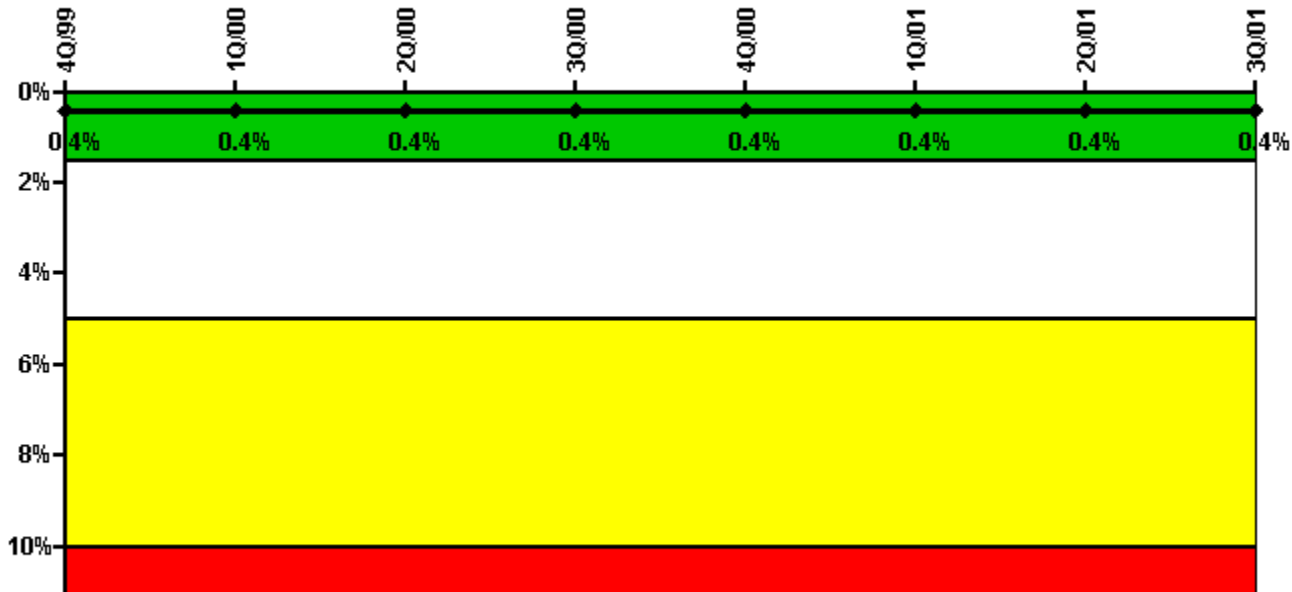
Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	3.22	0	0	16.97	36.22	22.06	0.73	0
Unplanned unavailable hours	0	2.92	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	872.68	1619.10	2183.00	1933.00	2209.00	2146.67	1154.80	0
Train 2								
Planned unavailable hours	3.27	0	28.35	0.62	5.64	8.90	0	0
Unplanned unavailable hours	22.97	2.92	4.08	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	872.68	1619.10	2183.00	1933.00	2209.00	2146.67	1072.40	0
Train 3								
Planned unavailable hours	0	0	5.47	18.15	0.77	9.84	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	872.68	1619.10	2183.00	1933.00	2209.00	2146.67	1154.80	0
Indicator value	0.3%	0.3%	0.3%	0.3%	0.4%	0.4%	0.4%	0.4%

Licensee Comments:

3Q/01: Extended maintenance outage began June 21, 2001. Heat Removal (AFW) not required during cold shutdown.

1Q/01: Data corrected in October 2001 for Trains 2 and 3 due to reviews identifying additional 5.1 hours Train 2 unavailability and additional 8.72 hours Train 3 unavailability in March 2001.

Safety System Unavailability, Residual Heat Removal System



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

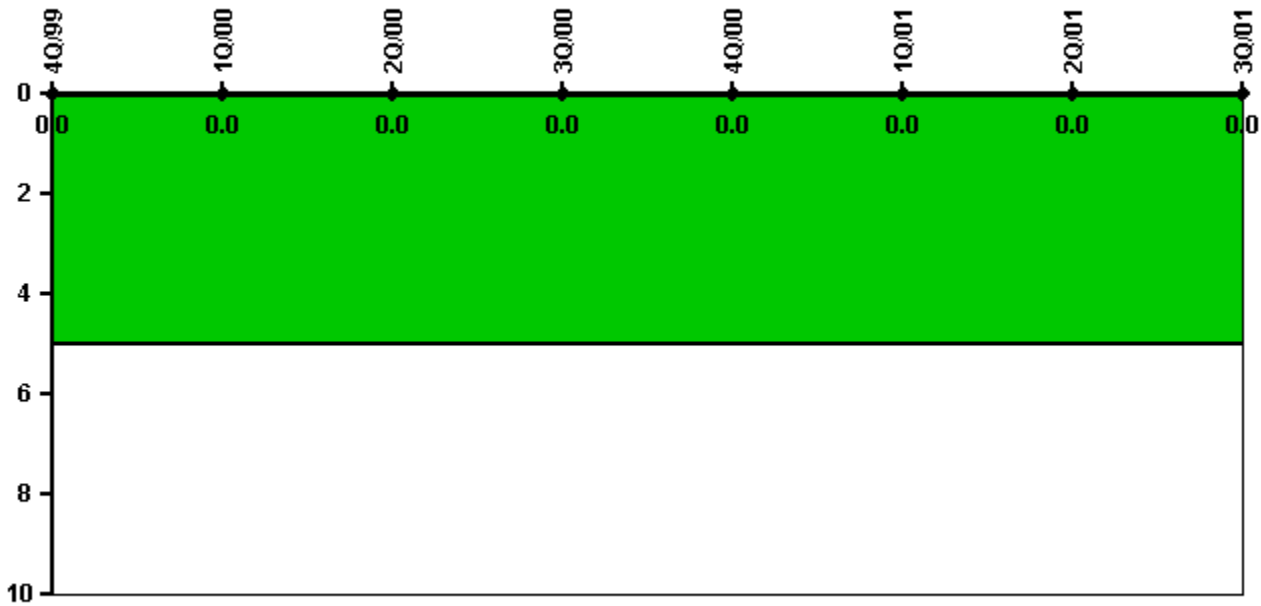
Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	0	10.40	0.62	0.60	3.49	1.14	0.83	0
Unplanned unavailable hours	0	0	0.08	0	0	0	0	0
Fault exposure hours	57.74	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	1933.04	2209.00	2146.67	1154.80	0
Train 2								
Planned unavailable hours	2.82	2.83	0.65	1.80	3.67	1.17	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	1933.04	2209.00	2146.67	1154.80	0
Train 3								
Planned unavailable hours	0	10.40	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	57.74	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	0	274.96	0	0	900.70	2208.00
Train 4								
Planned unavailable hours	2.82	2.83	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	2209.00	2184.00	0	274.96	0	0	789.90	2208.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Functional Failures (PWR)



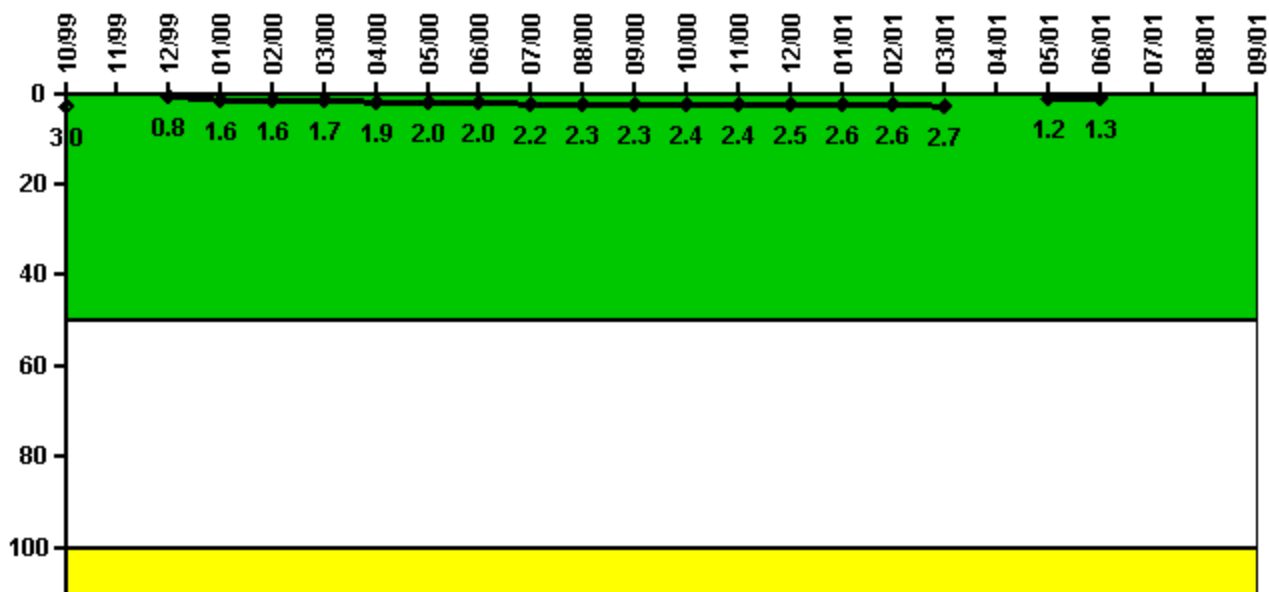
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

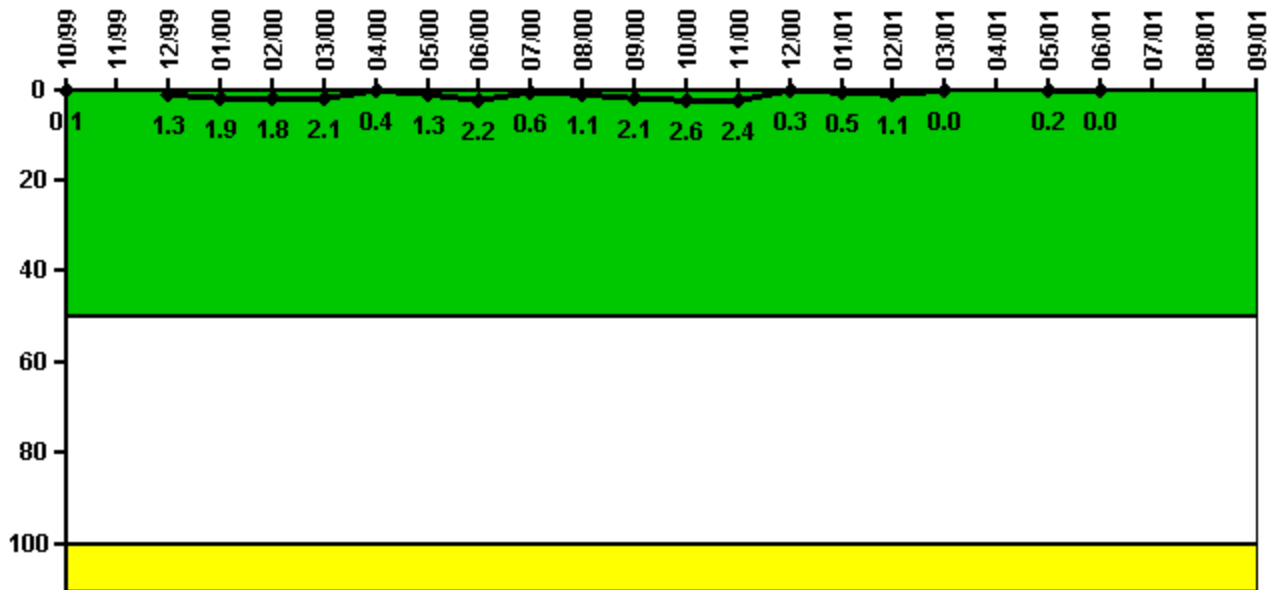
Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.030000	N/A	0.008000	0.015700	0.015800	0.016900	0.018800	0.019800	0.020400	0.021600	0.022700	0.022500
Technical specification limit	1.0	N/A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	3.0	N/A	0.8	1.6	1.6	1.7	1.9	2.0	2.0	2.2	2.3	2.3

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum activity	0.024000	0.024300	0.024800	0.026300	0.025600	0.026500	N/A	0.012300	0.013000	N/A	N/A	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	N/A	1.0	1.0	1.0	1.0	1.0
Indicator value	2.4	2.4	2.5	2.6	2.6	2.7	N/A	1.2	1.3	N/A	N/A	N/A

Licensee Comments:

9/01: Extended maintenance outage began June 21, 2001.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

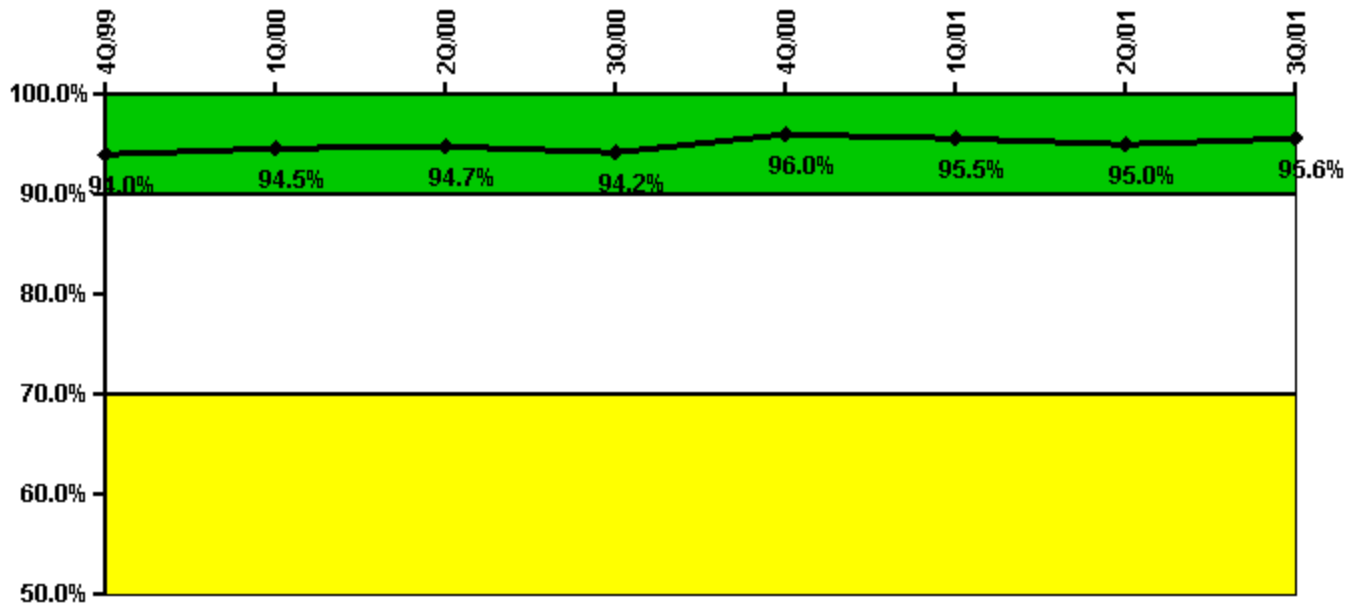
Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.010	N/A	0.127	0.187	0.177	0.214	0.041	0.128	0.216	0.060	0.112	0.214
Technical specification limit	10.0	N/A	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	N/A	1.3	1.9	1.8	2.1	0.4	1.3	2.2	0.6	1.1	2.1

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum leakage	0.261	0.241	0.030	0.047	0.112	0	N/A	0.015	0.003	N/A	N/A	N/A
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	N/A	10.0	10.0	10.0	10.0	10.0
Indicator value	2.6	2.4	0.3	0.5	1.1	0	N/A	0.2	0	N/A	N/A	N/A

Licensee Comments:

9/01: Extended maintenance outage began June 21, 2001.

Drill/Exercise Performance



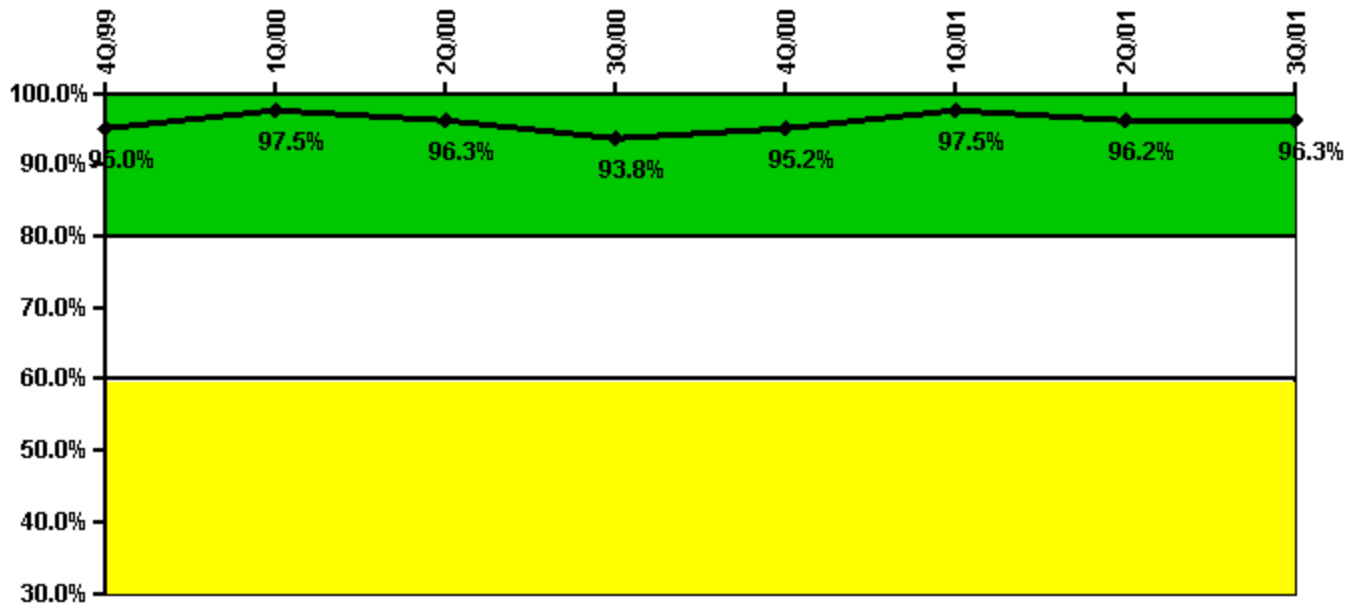
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Successful opportunities	0	14.0	21.0	5.0	10.0	13.0	0	2.0
Total opportunities	0	14.0	22.0	6.0	10.0	14.0	0	2.0
Indicator value	94.0%	94.5%	94.7%	94.2%	96.0%	95.5%	95.0%	95.6%

Licensee Comments: none

ERO Drill Participation



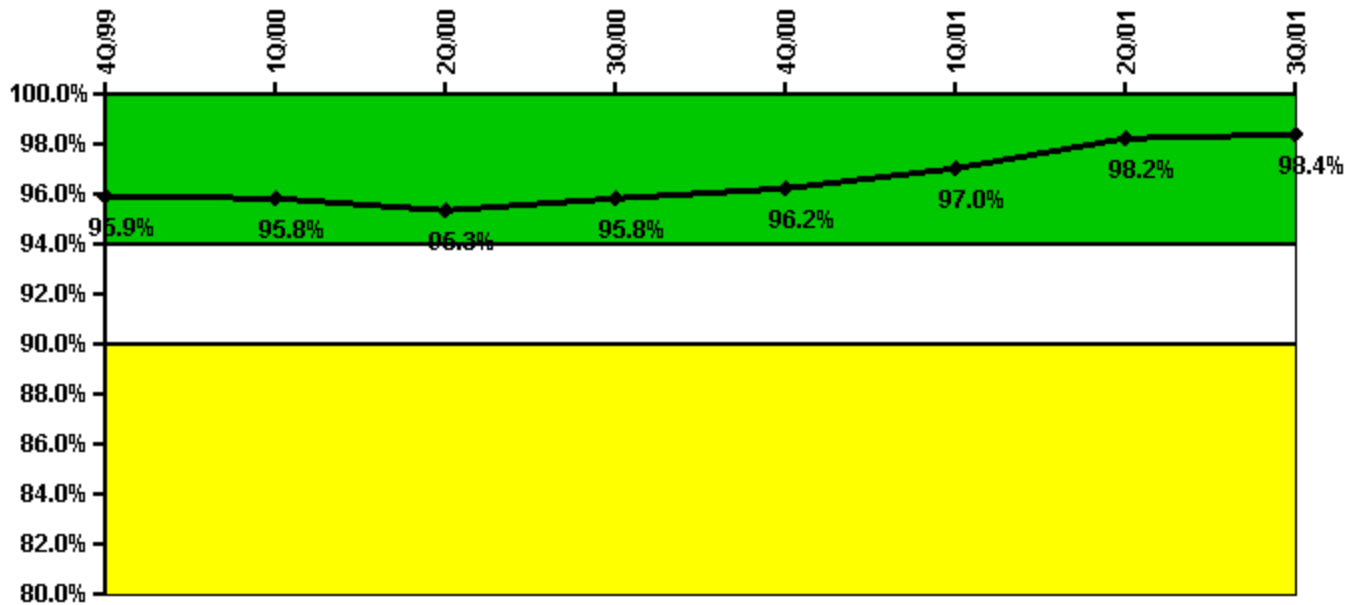
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Participating Key personnel	76.0	79.0	78.0	76.0	79.0	78.0	76.0	77.0
Total Key personnel	80.0	81.0	81.0	81.0	83.0	80.0	79.0	80.0
Indicator value	95.0%	97.5%	96.3%	93.8%	95.2%	97.5%	96.2%	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	211	203	239	244	246	249	251	246
Total sirens-tests	219	213	252	252	252	252	252	252
Indicator value	95.9%	95.8%	95.3%	95.8%	96.2%	97.0%	98.2%	98.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness



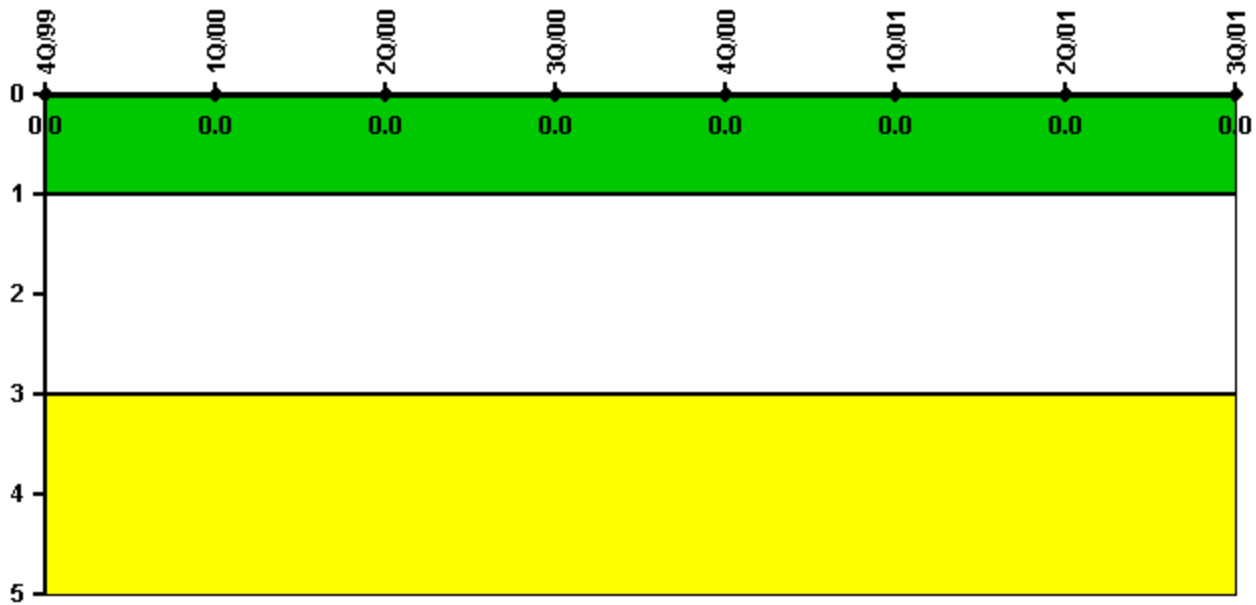
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	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	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



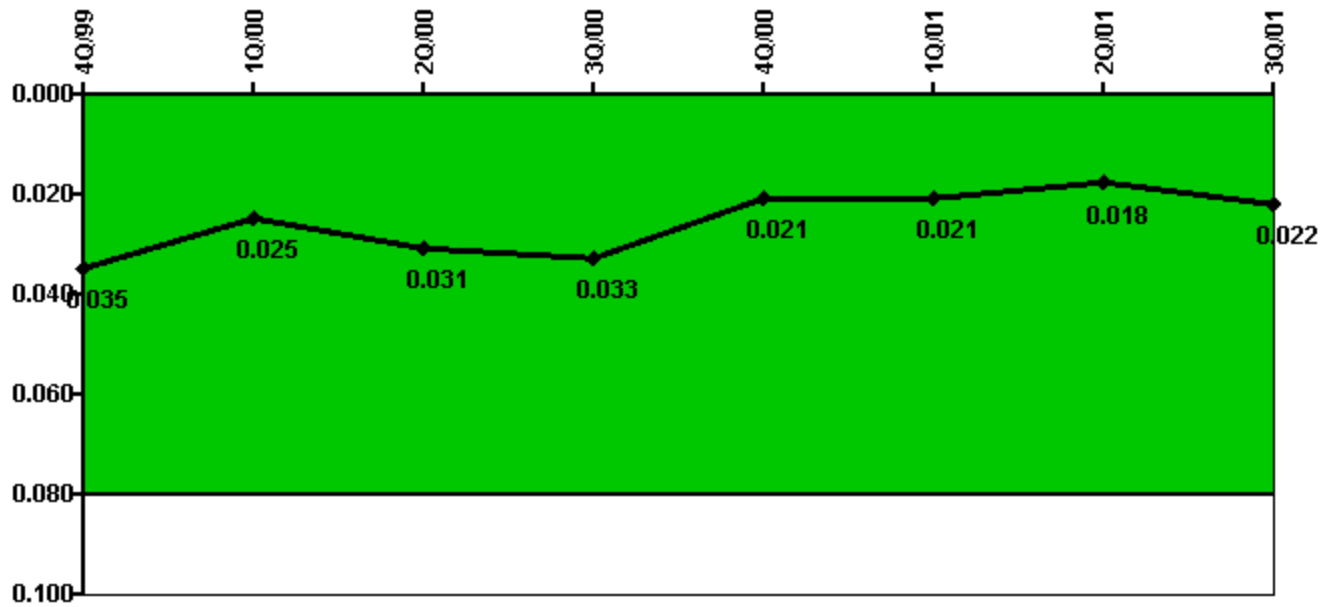
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/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



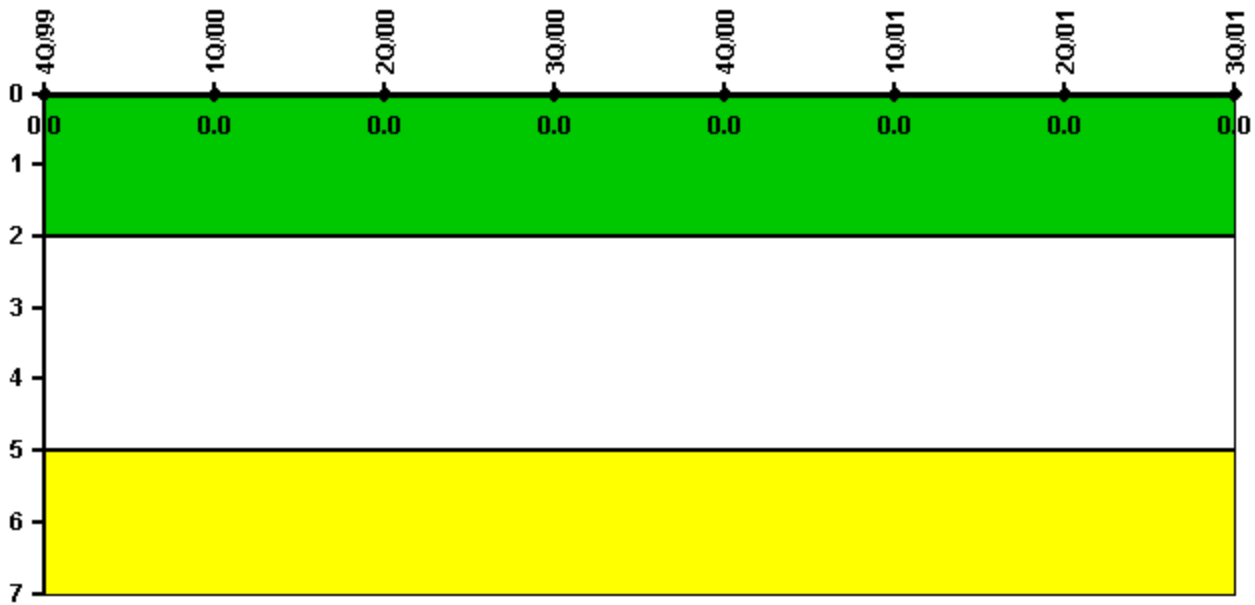
Thresholds: White > 0.080

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	499.15	57.81	201.00	81.82	196.99	64.37	126.28	163.03
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.035	0.025	0.031	0.033	0.021	0.021	0.018	0.022

Licensee Comments: none

Personnel Screening Program



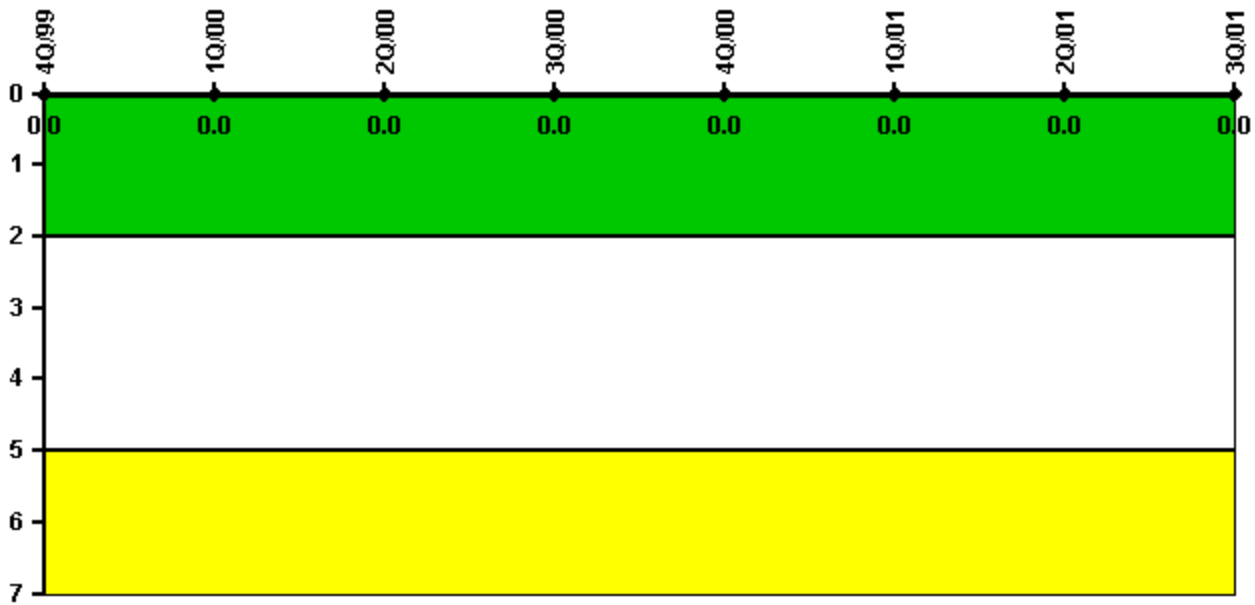
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

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

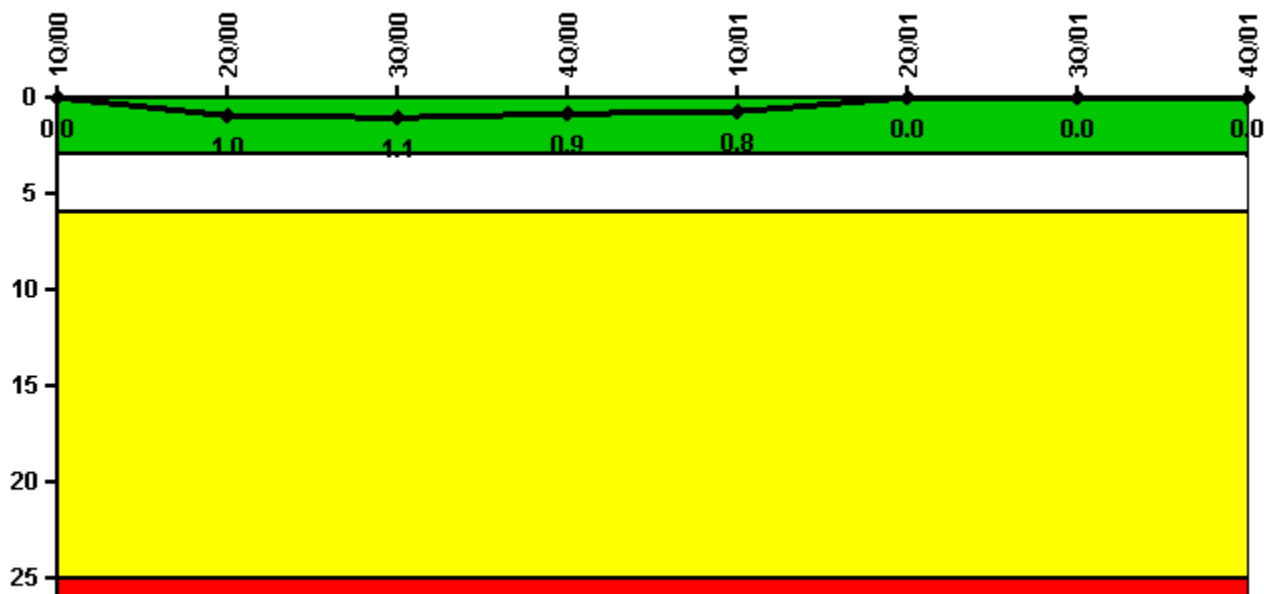
Last Modified: March 26, 2002

Palisades

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

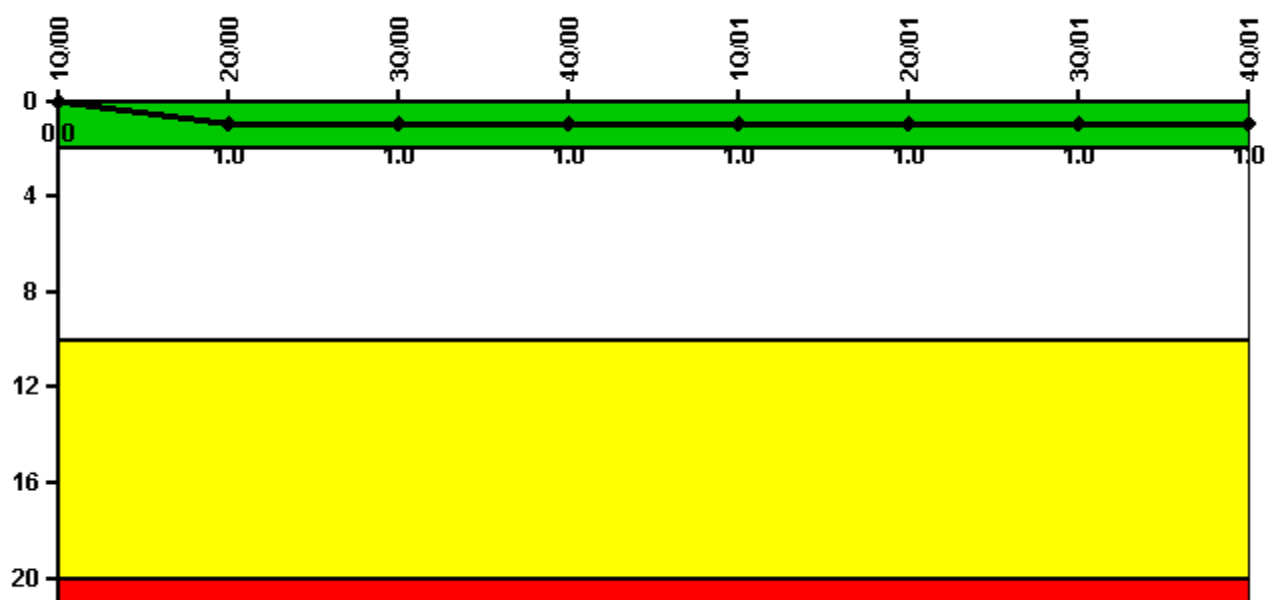
Notes

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	1.0	0	0	0	0	0	0
Critical hours	1619.1	2119.0	1785.0	2209.0	2133.8	1050.3	0	0
Indicator value	0	1.0	1.1	0.9	0.8	0	0	0

Licensee Comments:

4Q/01: Extended maintenance outage began June 21, 2001

Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

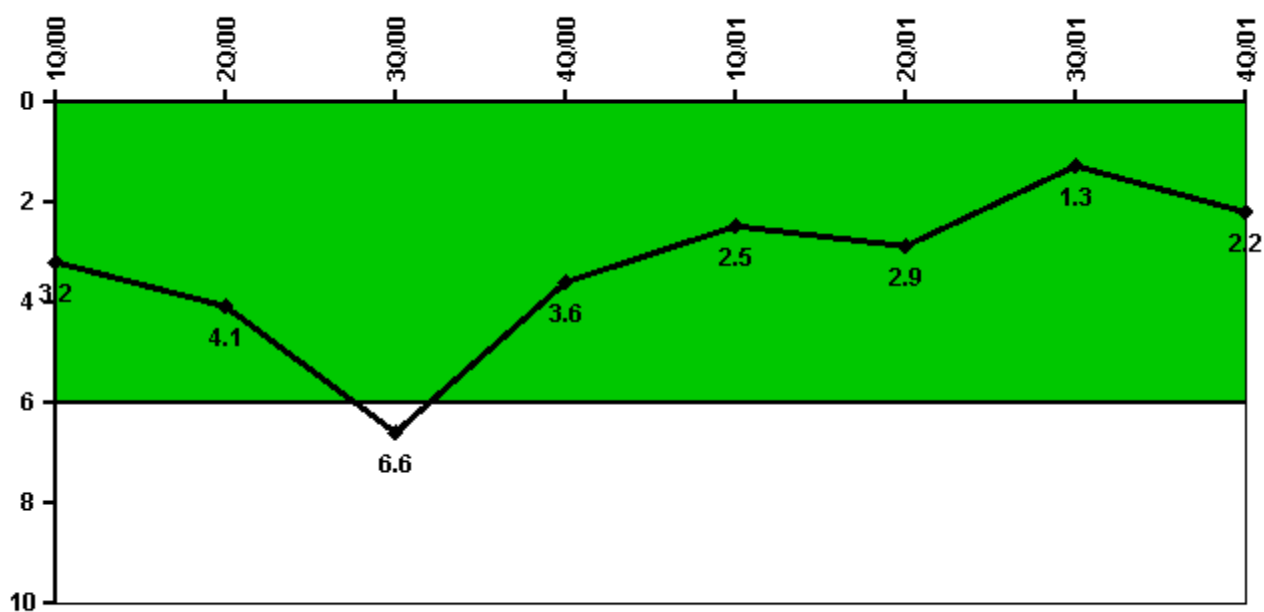
Notes

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	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:

4Q/01: Extended maintenance outage began June 21, 2001

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

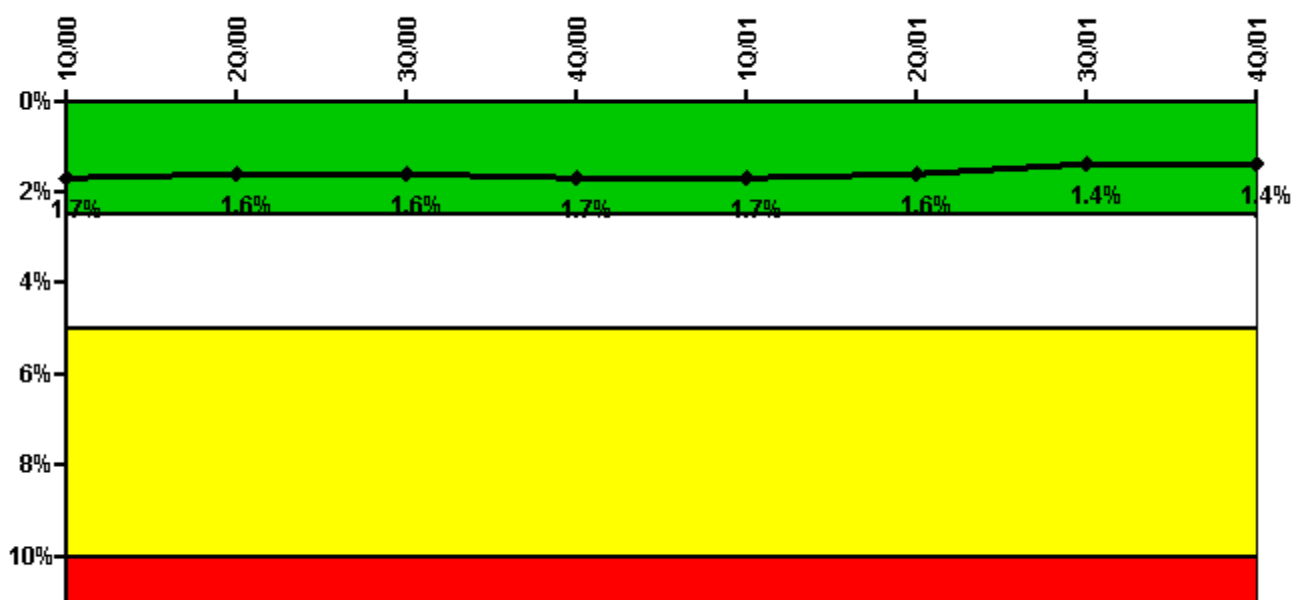
Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned power changes	1.0	1.0	2.0	0	0	1.0	0	0
Critical hours	1619.1	2119.0	1785.0	2209.0	2133.8	1050.3	0	0
Indicator value	3.2	4.1	6.6	3.6	2.5	2.9	1.3	2.2

Licensee Comments:

4Q/01: Extended maintenance outage began June 21, 2001

Safety System Unavailability, Emergency AC Power



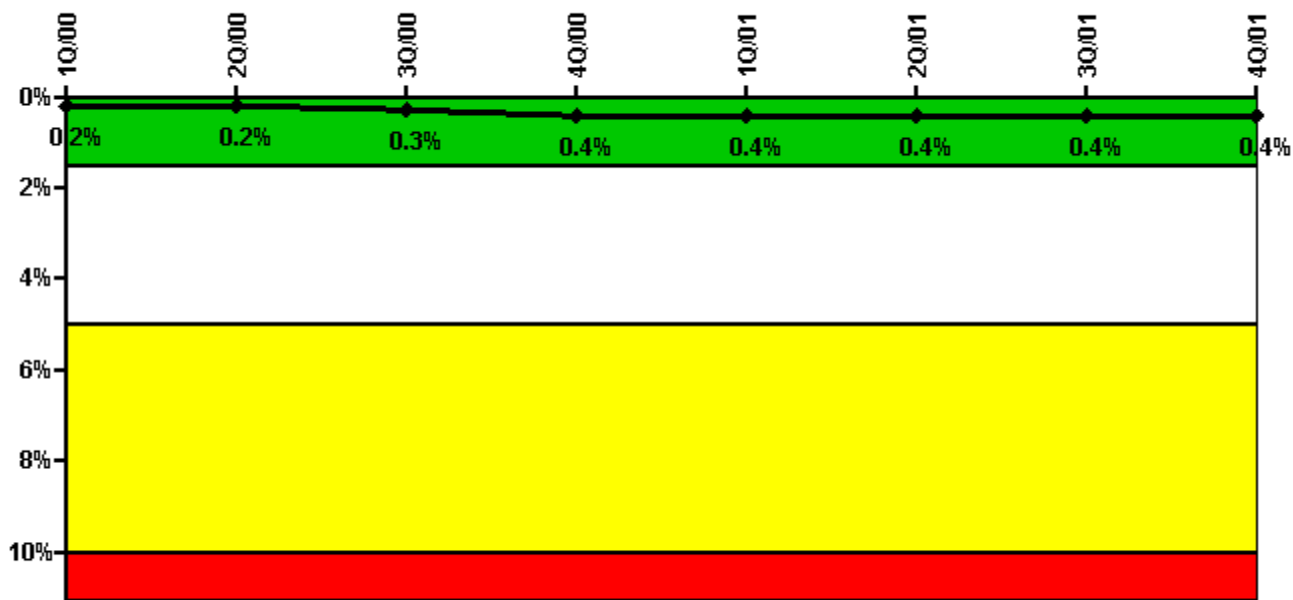
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

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	54.12	0.33	0.39	55.88	19.62	0.67	0	0
Unplanned unavailable hours	0	17.78	0	49.28	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	35.05	0.45	0.58	25.68	2.20	0.28	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	2183.00	2208.00	2209.00
Indicator value	1.7%	1.6%	1.6%	1.7%	1.7%	1.6%	1.4%	1.4%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



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

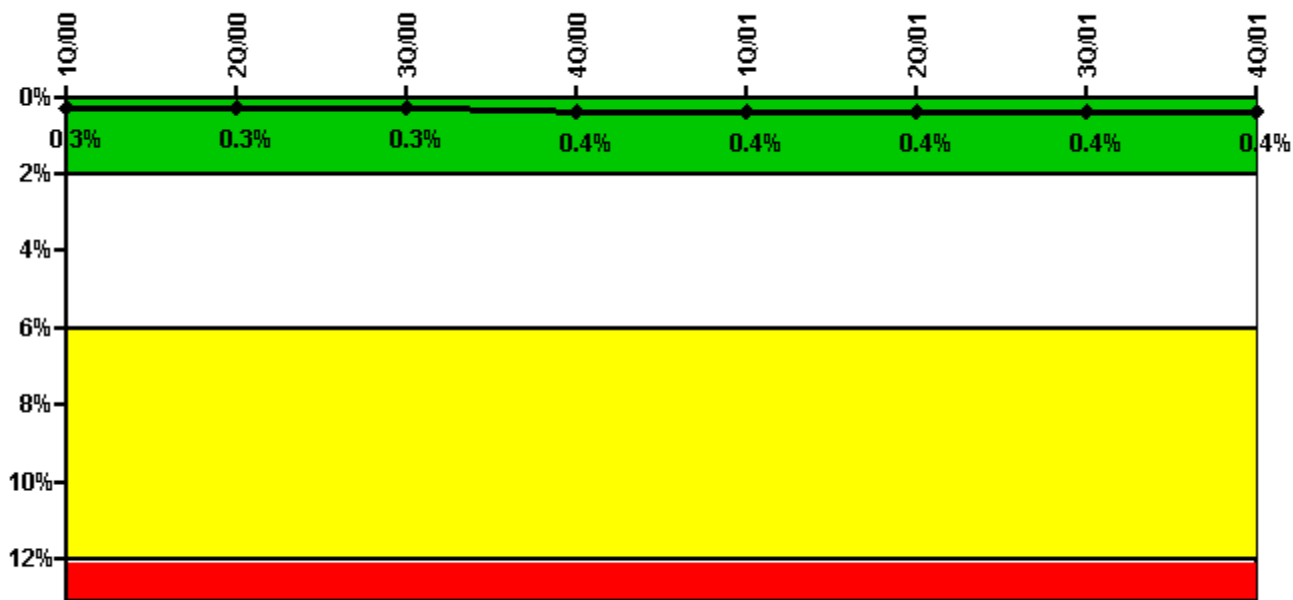
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	2.10	0.33	25.40	14.52	16.59	0.27	0	0
Unplanned unavailable hours	0	9.89	23.18	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1619.10	2183.00	1933.04	2209.00	2146.67	1154.80	0	0
Train 2								
Planned unavailable hours	3.26	7.08	0	10.27	3.72	0	0	0
Unplanned unavailable hours	0	0	0	0.27	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1619.10	2183.00	1933.04	2209.00	2146.67	1154.80	0	0
Indicator value	0.2%	0.2%	0.3%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments:

4Q/01: Extended maintenance outage began June 21, 2001. HPSI trains not required in shutdown modes.

Safety System Unavailability, Heat Removal System (AFW)



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

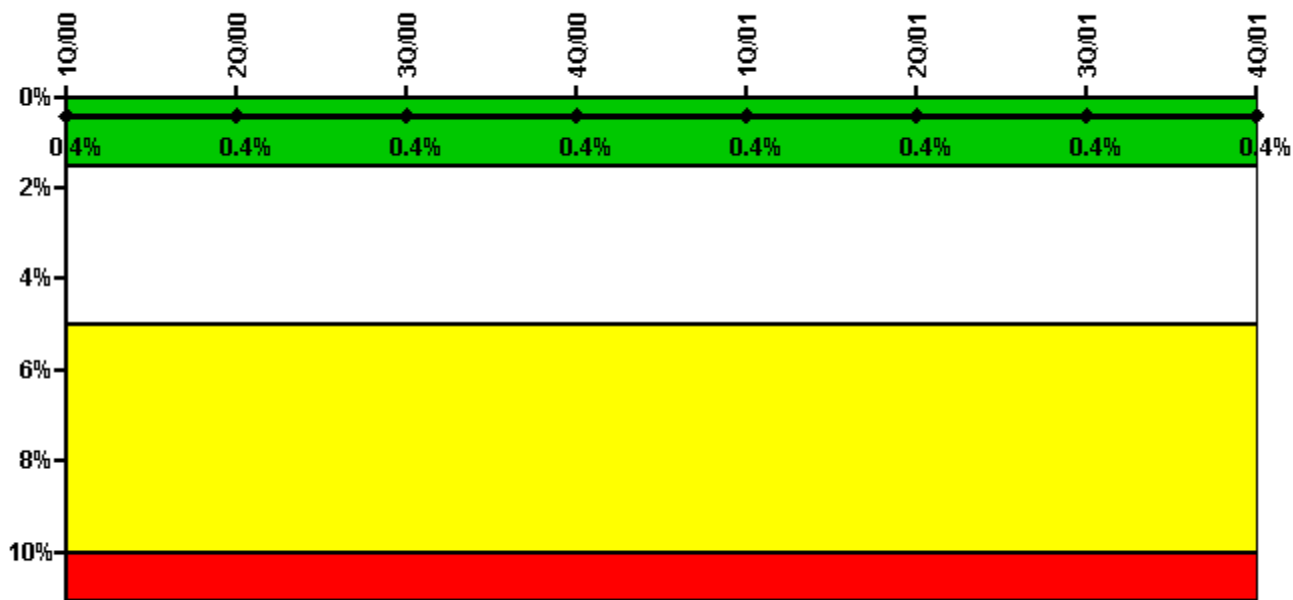
Notes

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	0	0	16.97	36.22	22.06	0.73	0	0
Unplanned unavailable hours	2.92	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1619.10	2183.00	1933.00	2209.00	2146.67	1154.80	0	0
Train 2								
Planned unavailable hours	0	28.35	0.62	5.64	8.90	0	0	0
Unplanned unavailable hours	2.92	4.08	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1619.10	2183.00	1933.00	2209.00	2146.67	1072.40	0	0
Train 3								
Planned unavailable hours	0	5.47	18.15	0.77	9.84	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	1619.10	2183.00	1933.00	2209.00	2146.67	1154.80	0	0
Indicator value	0.3%	0.3%	0.3%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments:

4Q/01: Extended maintenance outage began June 21, 2001. Heat removal (AFW) not required during cold shutdown.

Safety System Unavailability, Residual Heat Removal System



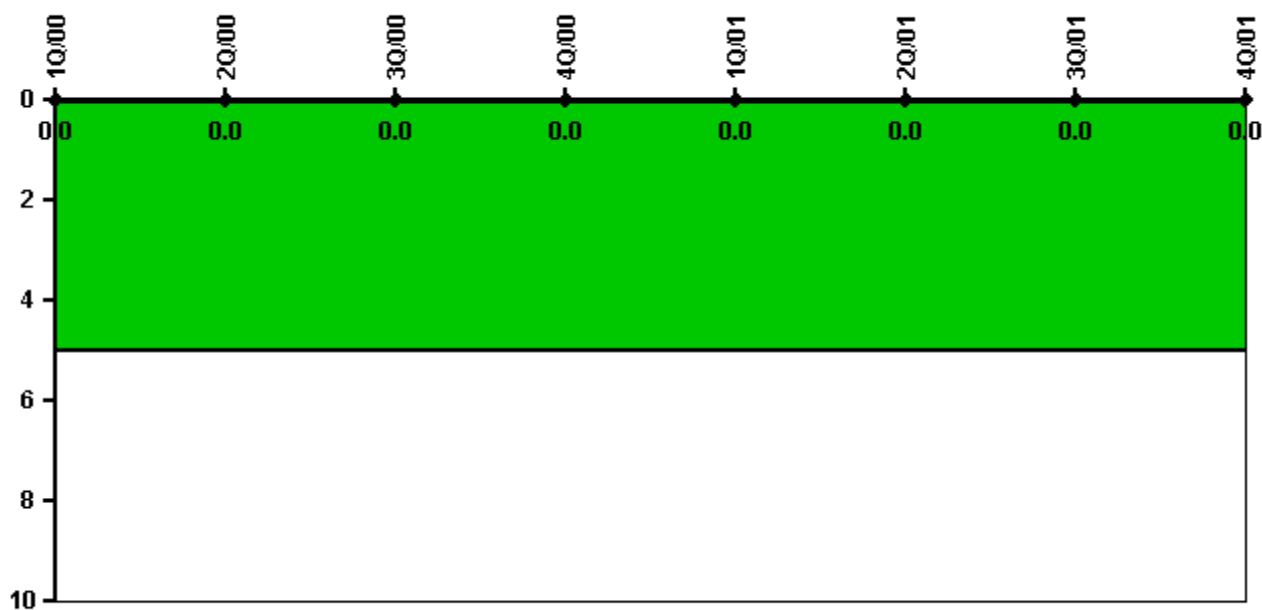
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	10.40	0.62	0.60	3.49	1.14	0.83	0	0
Unplanned unavailable hours	0	0.08	0	0	0	0	0	0
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	1933.04	2209.00	2146.67	1154.80	0	0
Train 2								
Planned unavailable hours	2.83	0.65	1.80	3.67	1.17	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	1933.04	2209.00	2146.67	1154.80	0	0
Train 3								
Planned unavailable hours	10.40	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	0	274.96	0	0	900.70	2208.00	2209.00
Train 4								
Planned unavailable hours	2.83	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	0	274.96	0	0	789.90	2208.00	2209.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Functional Failures (PWR)



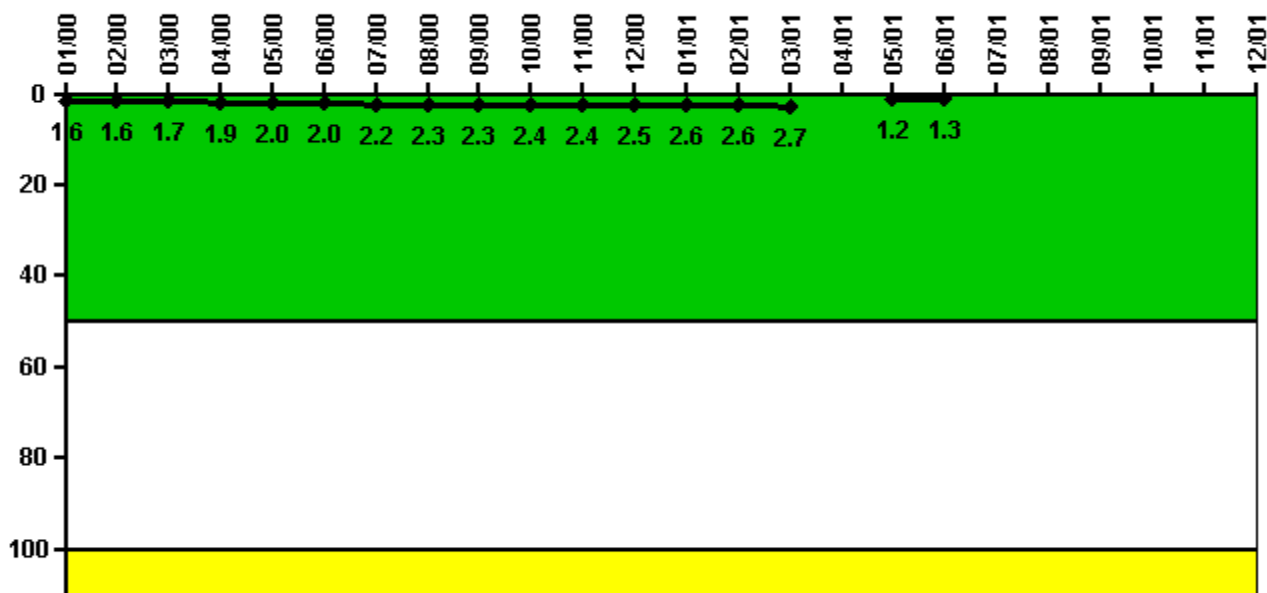
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

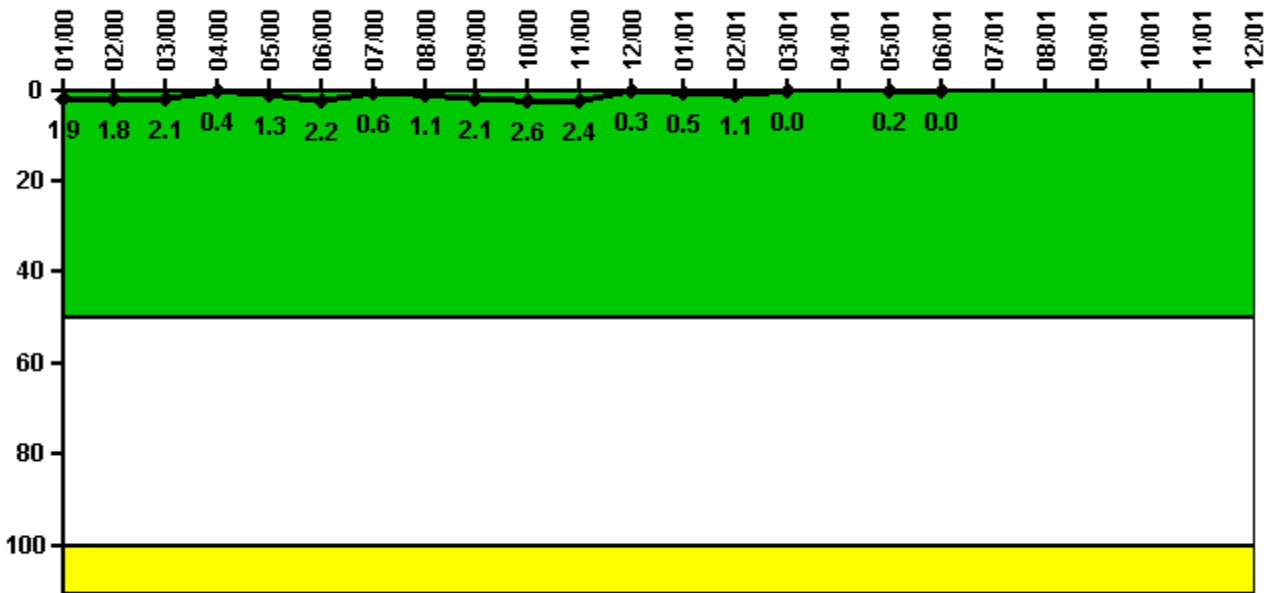
Reactor Coolant System Activity	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum activity	0.015700	0.015800	0.016900	0.018800	0.019800	0.020400	0.021600	0.022700	0.022500	0.024000	0.024300	0.024800
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.6	1.6	1.7	1.9	2.0	2.0	2.2	2.3	2.3	2.4	2.4	2.5

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	0.026300	0.025600	0.026500	N/A	0.012300	0.013000	N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit	1.0	1.0	1.0	N/A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	2.6	2.6	2.7	N/A	1.2	1.3	N/A	N/A	N/A	N/A	N/A	N/A

Licensee Comments:

12/01: Extended maintenance outage began June 21, 2001

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

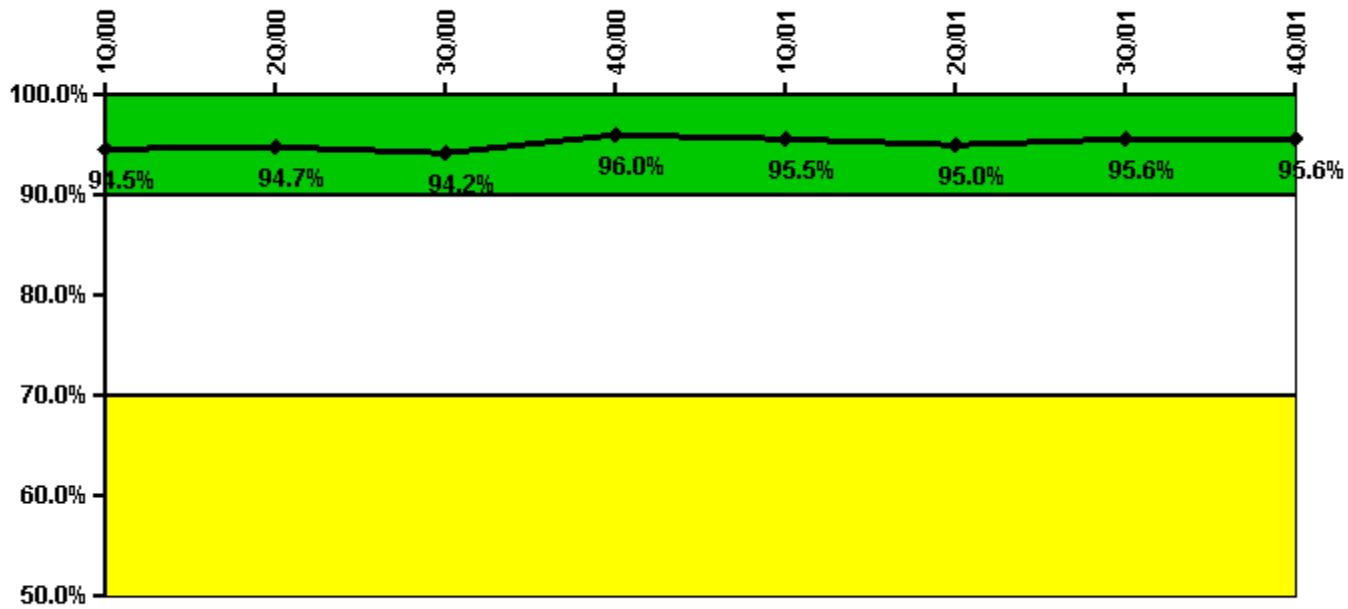
Reactor Coolant System Leakage	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage	0.187	0.177	0.214	0.041	0.128	0.216	0.060	0.112	0.214	0.261	0.241	0.030
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.9	1.8	2.1	0.4	1.3	2.2	0.6	1.1	2.1	2.6	2.4	0.3

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	0.047	0.112	0	N/A	0.015	0.003	N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit	10.0	10.0	10.0	N/A	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.5	1.1	0	N/A	0.2	0	N/A	N/A	N/A	N/A	N/A	N/A

Licensee Comments:

12/01: Extended maintenance outage began June 21, 2001

Drill/Exercise Performance



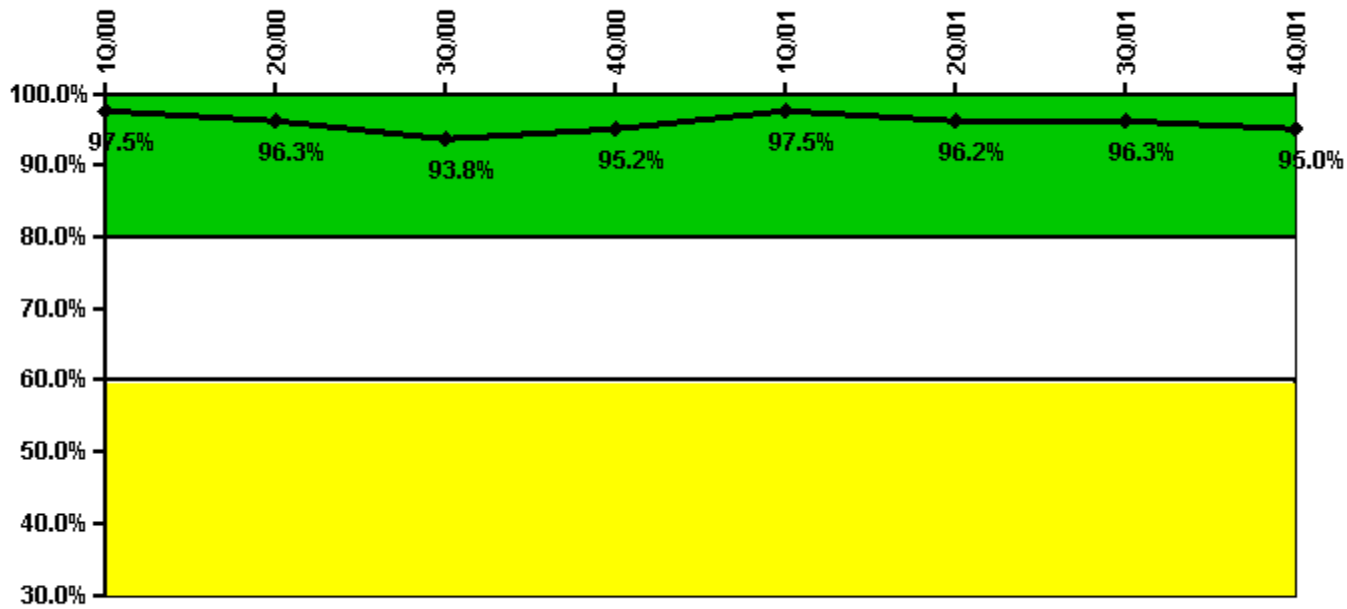
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful opportunities	14.0	21.0	5.0	10.0	13.0	0	2.0	0
Total opportunities	14.0	22.0	6.0	10.0	14.0	0	2.0	0
Indicator value	94.5%	94.7%	94.2%	96.0%	95.5%	95.0%	95.6%	95.6%

Licensee Comments: none

ERO Drill Participation



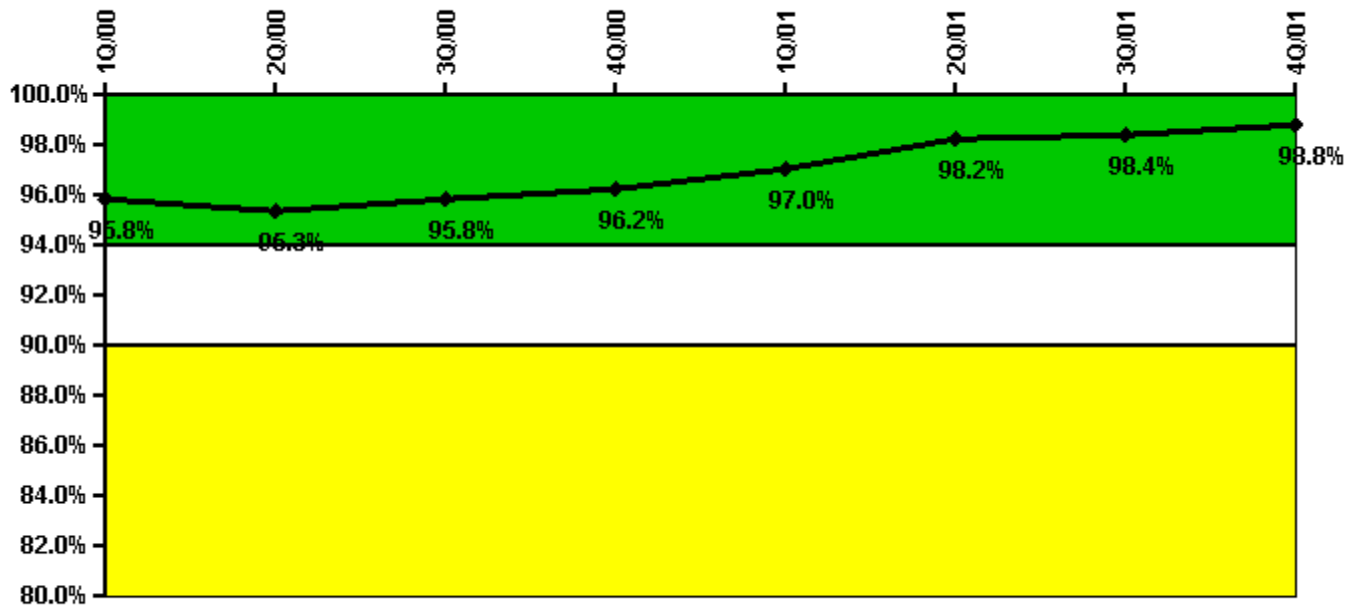
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Participating Key personnel	79.0	78.0	76.0	79.0	78.0	76.0	77.0	76.0
Total Key personnel	81.0	81.0	81.0	83.0	80.0	79.0	80.0	80.0
Indicator value	97.5%	96.3%	93.8%	95.2%	97.5%	96.2%	96.3%	95.0%

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	203	239	244	246	249	251	246	250
Total sirens-tests	213	252	252	252	252	252	252	252
Indicator value	95.8%	95.3%	95.8%	96.2%	97.0%	98.2%	98.4%	98.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness

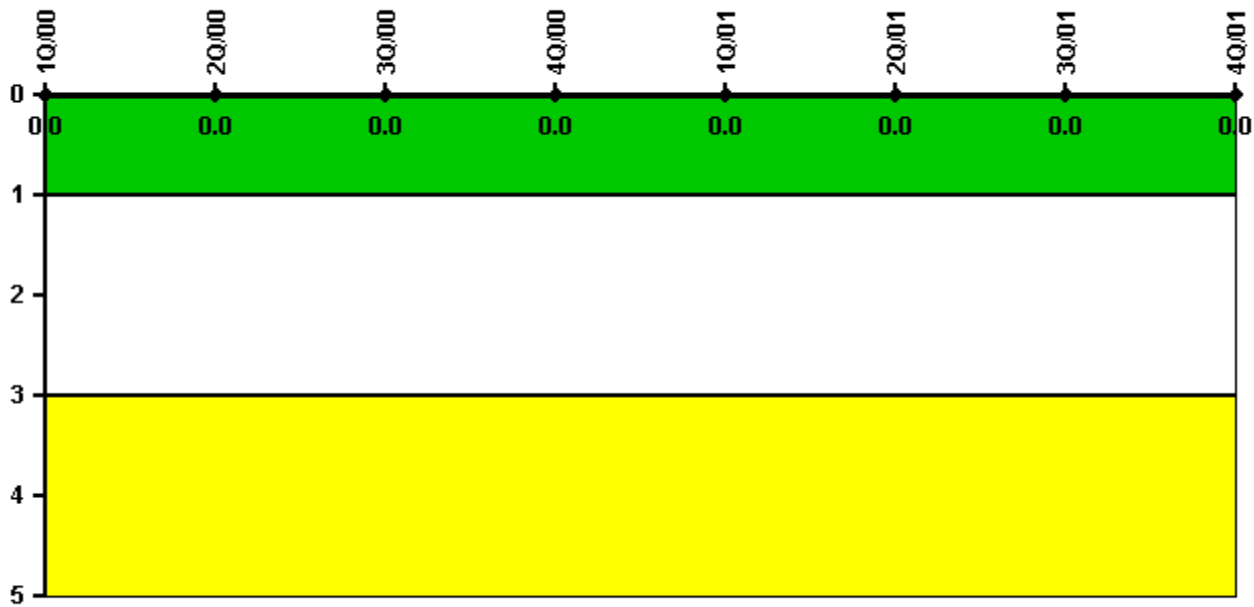


Thresholds: White > 2.0 Yellow > 5.0

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	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

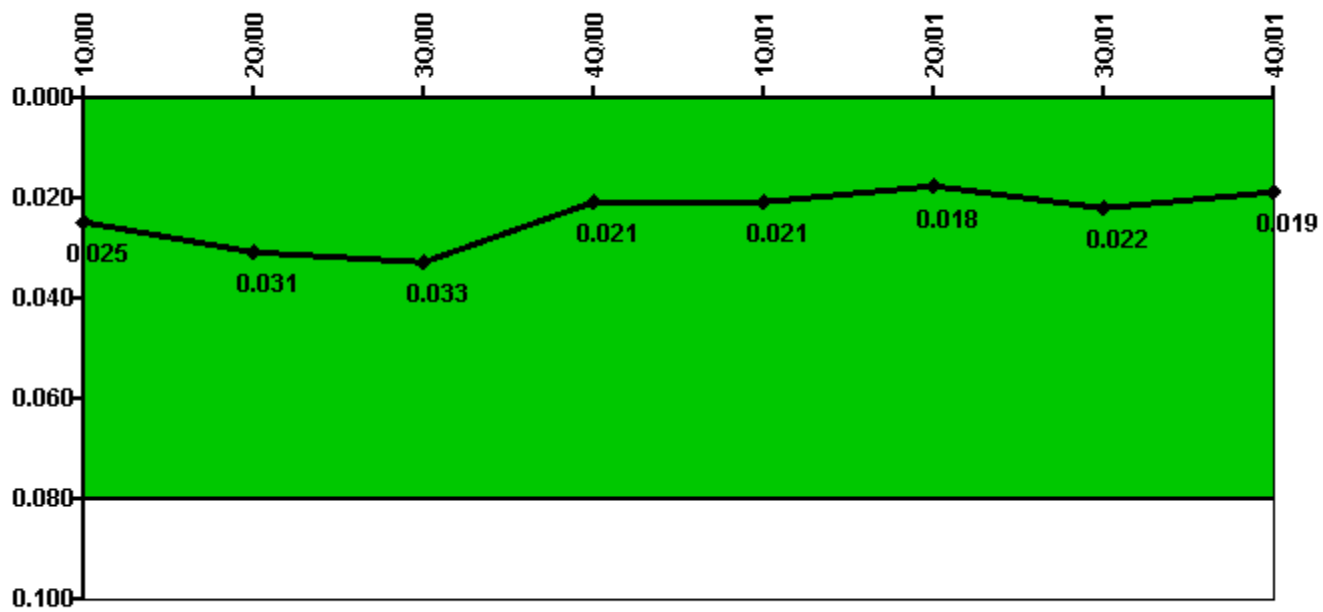
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/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



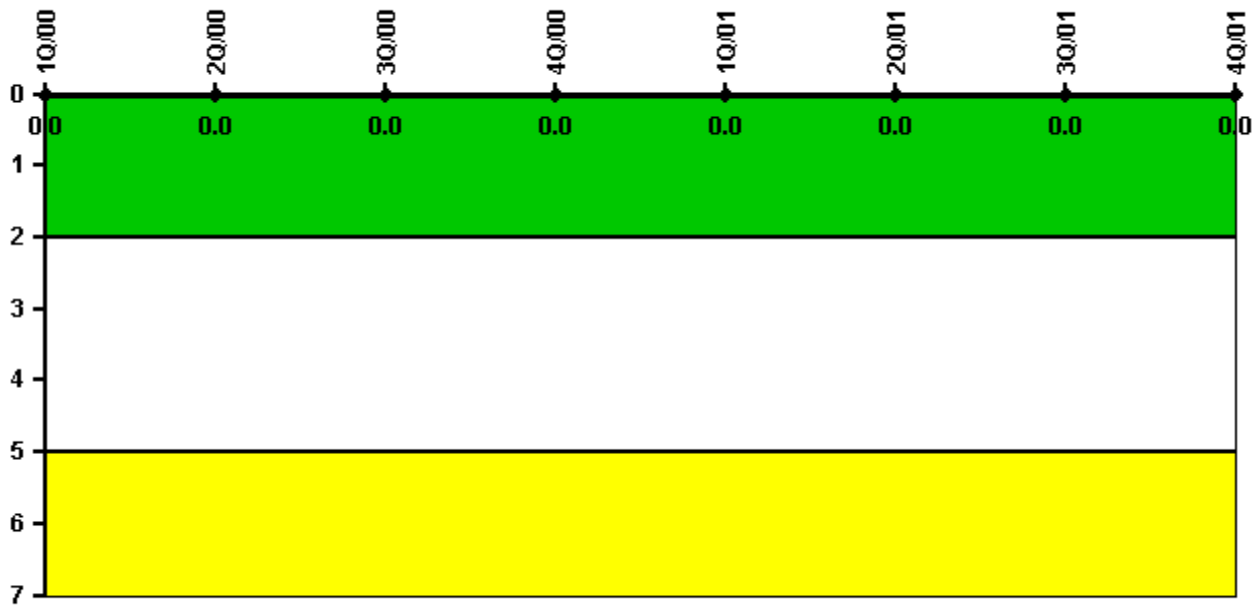
Thresholds: White > 0.080

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	57.81	201.00	81.82	196.99	64.37	126.28	163.03	136.99
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.025	0.031	0.033	0.021	0.021	0.018	0.022	0.019

Licensee Comments: none

Personnel Screening Program



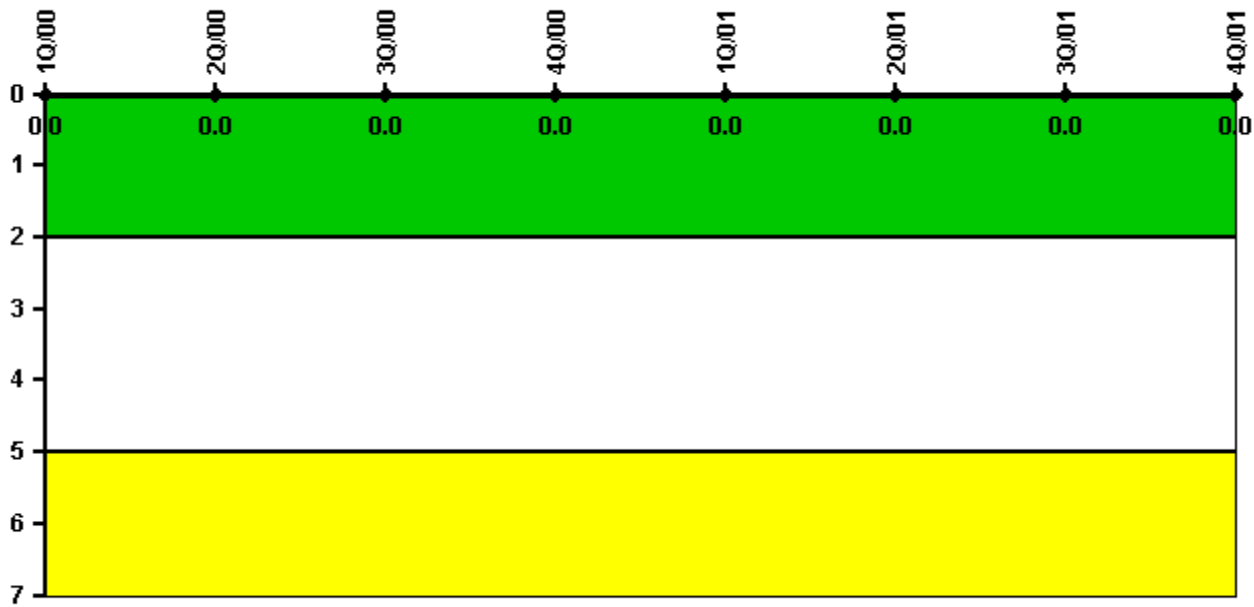
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

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

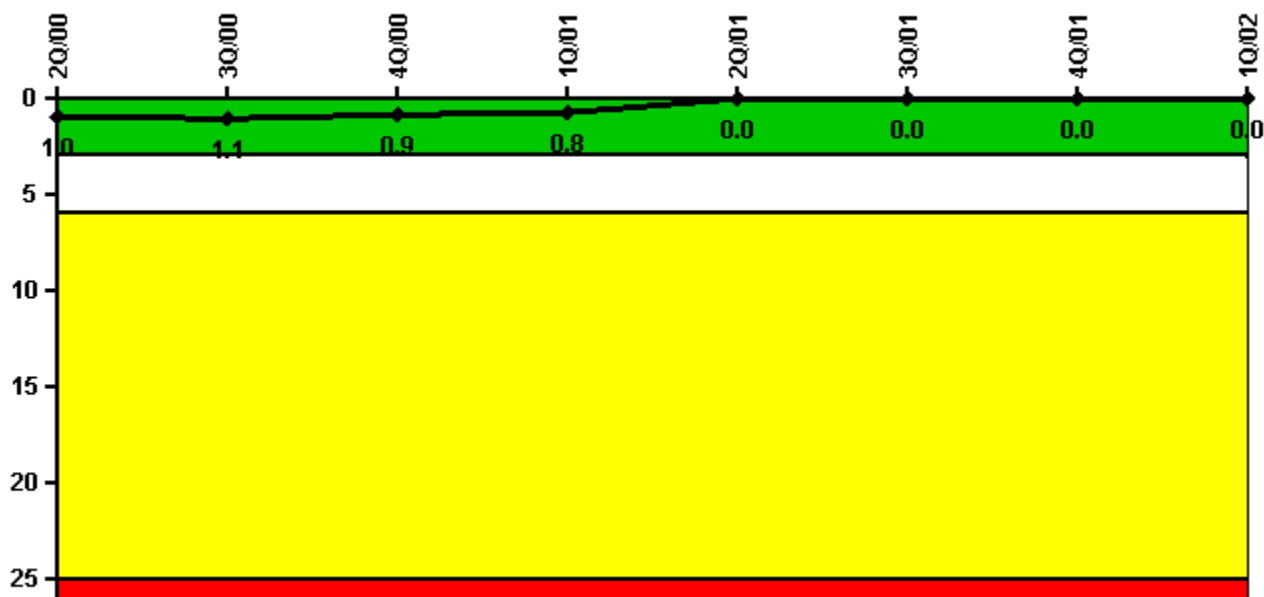
Last Modified: March 15, 2002

Palisades

1Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



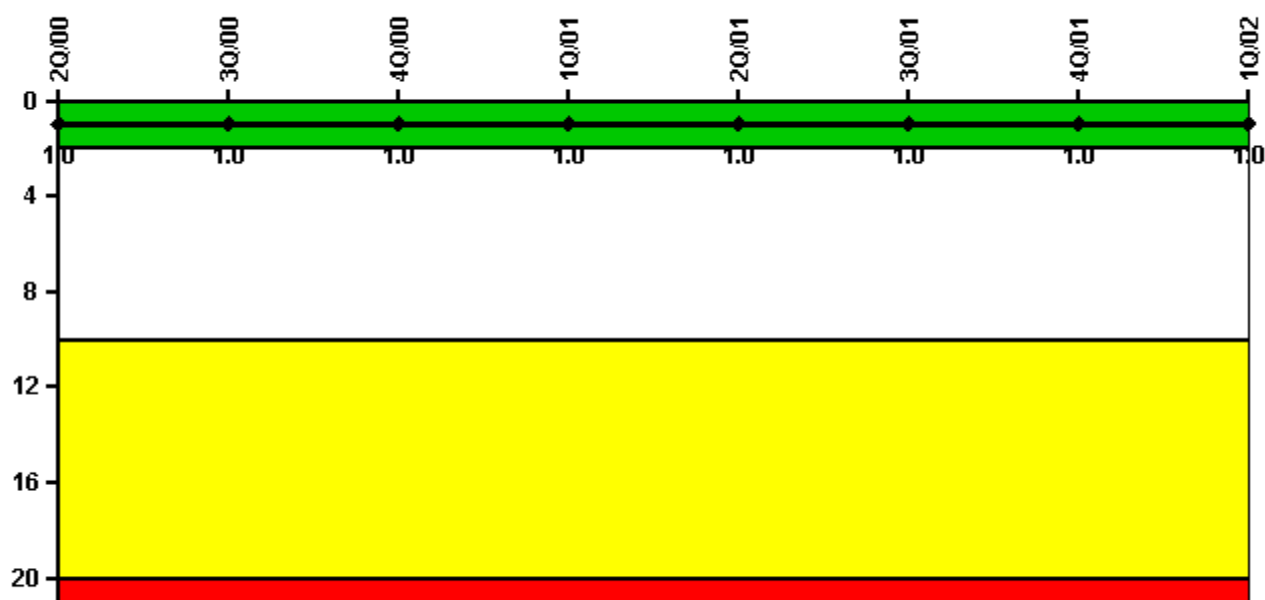
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	0	0	0	0
Critical hours	2119.0	1785.0	2209.0	2133.8	1050.3	0	0	1768.4
Indicator value	1.0	1.1	0.9	0.8	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



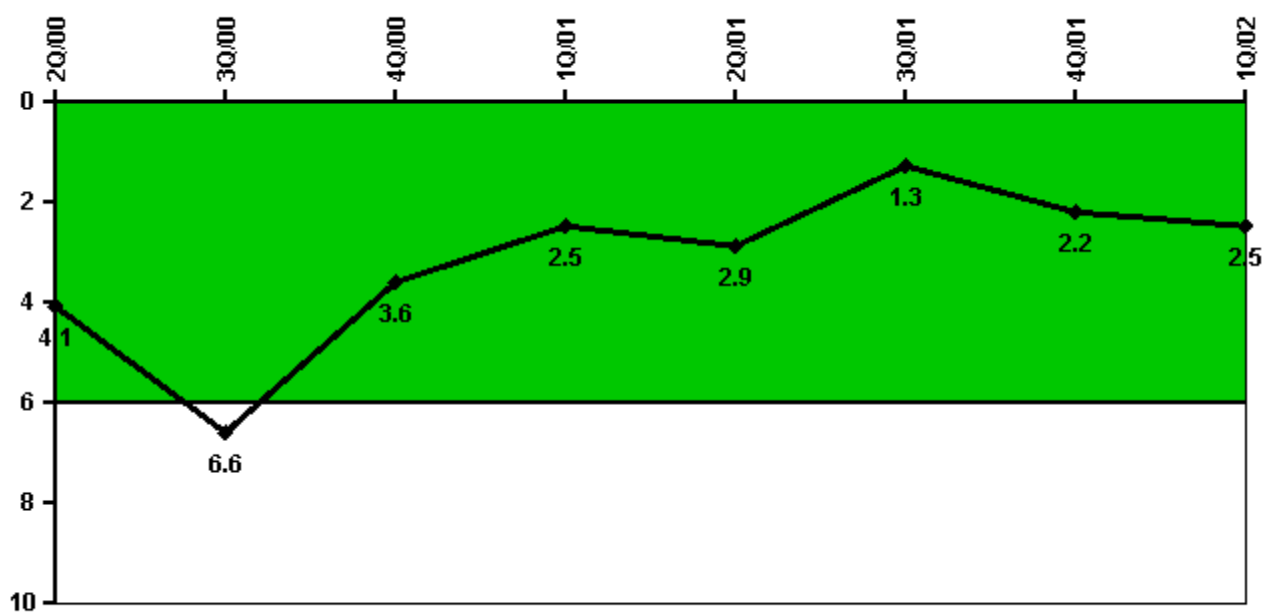
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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



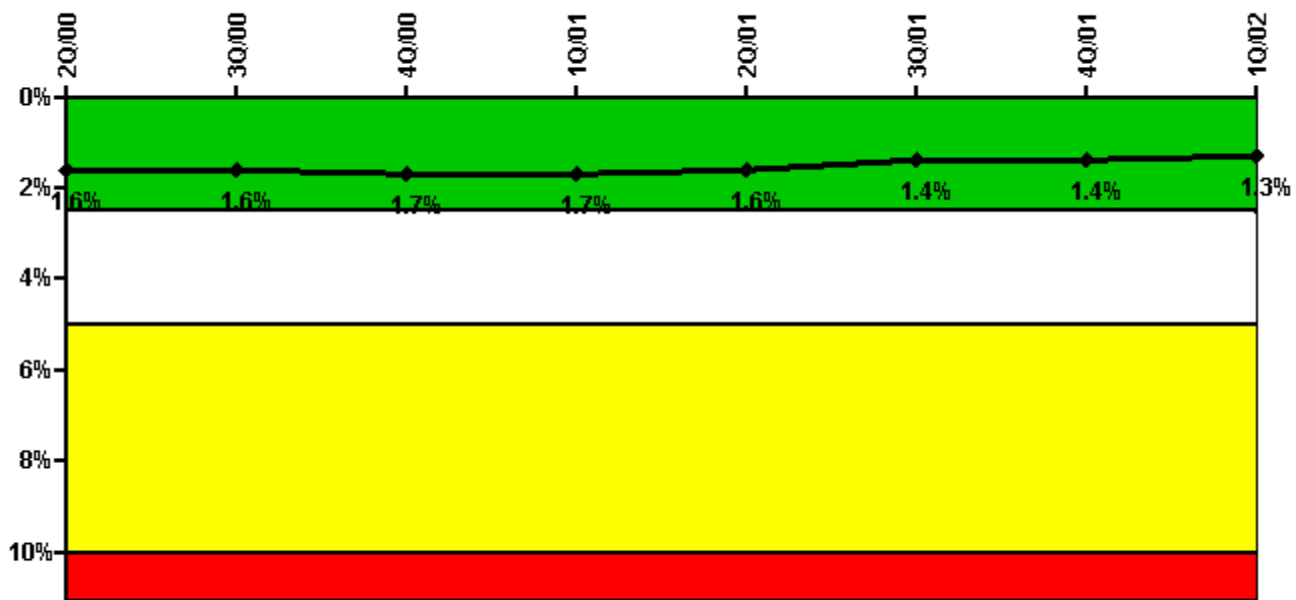
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned power changes	1.0	2.0	0	0	1.0	0	0	0
Critical hours	2119.0	1785.0	2209.0	2133.8	1050.3	0	0	1768.4
Indicator value	4.1	6.6	3.6	2.5	2.9	1.3	2.2	2.5

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



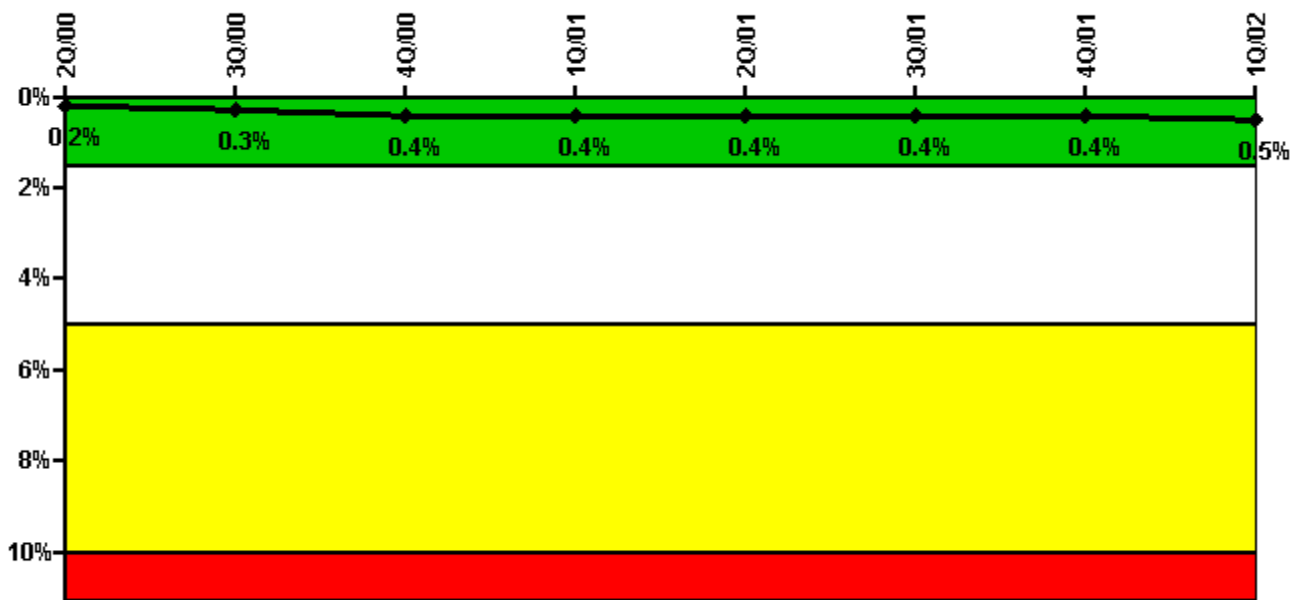
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	0.33	0.39	55.88	19.62	0.67	0	0	0.57
Unplanned unavailable hours	17.78	0	49.28	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	0.45	0.58	25.68	2.20	0.28	0	0	0.99
Unplanned unavailable hours	0	0	0	0	0	0	0	6.18
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	1.6%	1.6%	1.7%	1.7%	1.6%	1.4%	1.4%	1.3%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



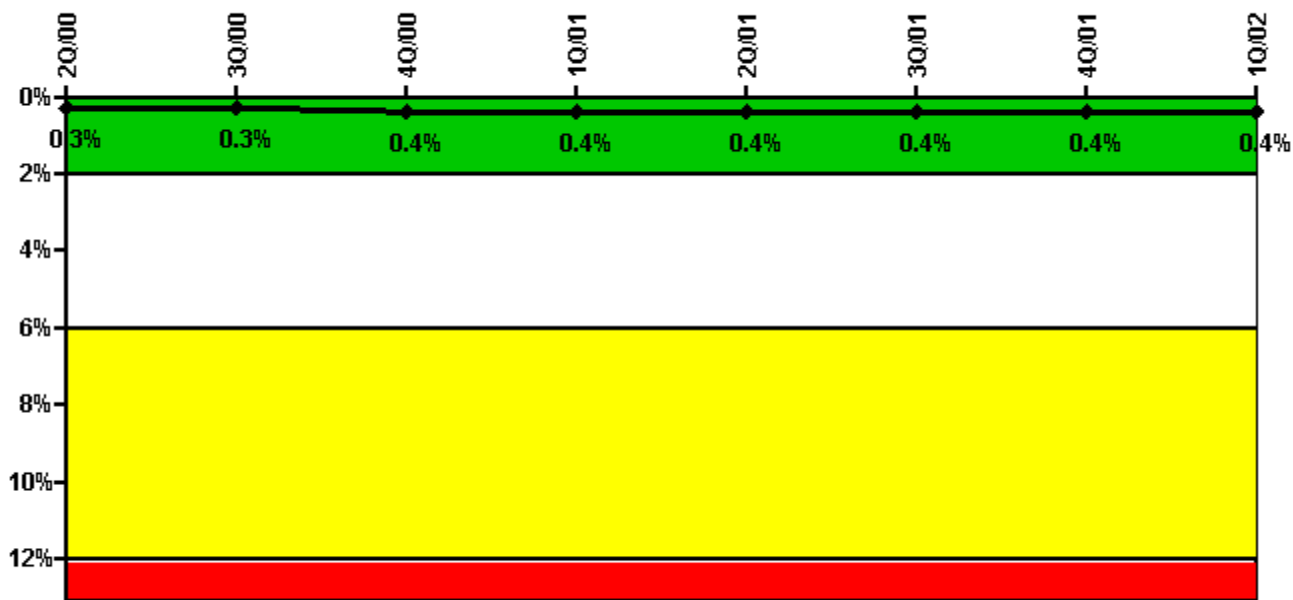
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	0.33	25.40	14.52	16.59	0.27	0	0	10.93
Unplanned unavailable hours	9.89	23.18	0	0	0	0	0	8.72
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	1933.04	2209.00	2146.67	1154.80	0	0	1851.33
Train 2								
Planned unavailable hours	7.08	0	10.27	3.72	0	0	0	12.58
Unplanned unavailable hours	0	0	0.27	0	0	0	0	0
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	1933.04	2209.00	2146.67	1154.80	0	0	1851.33
Indicator value	0.2%	0.3%	0.4%	0.4%	0.4%	0.4%	0.4%	0.5%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



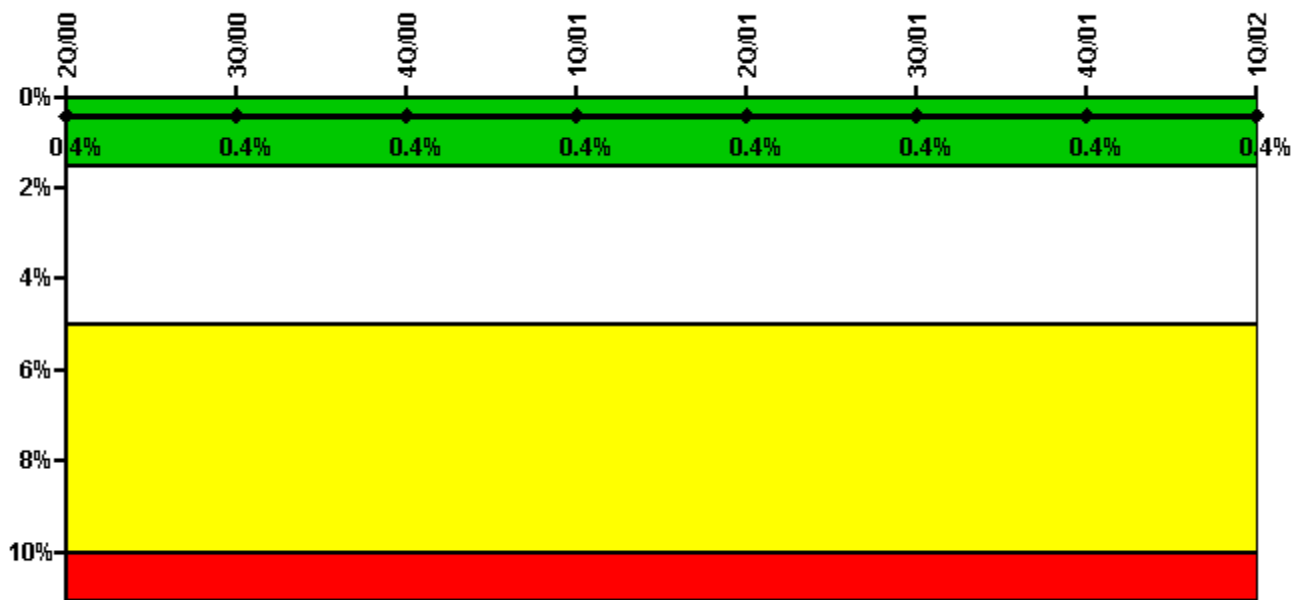
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	0	16.97	36.22	22.06	0.73	0	0	4.40
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1933.00	2209.00	2146.67	1154.80	0	0	1851.33
Train 2								
Planned unavailable hours	28.35	0.62	5.64	8.90	0	0	0	1.22
Unplanned unavailable hours	4.08	0	0	0	0	0	0	0
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	1933.00	2209.00	2146.67	1072.40	0	0	1768.40
Train 3								
Planned unavailable hours	5.47	18.15	0.77	9.84	0	0	0	1.08
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1933.00	2209.00	2146.67	1154.80	0	0	1851.33
Indicator value	0.3%	0.3%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



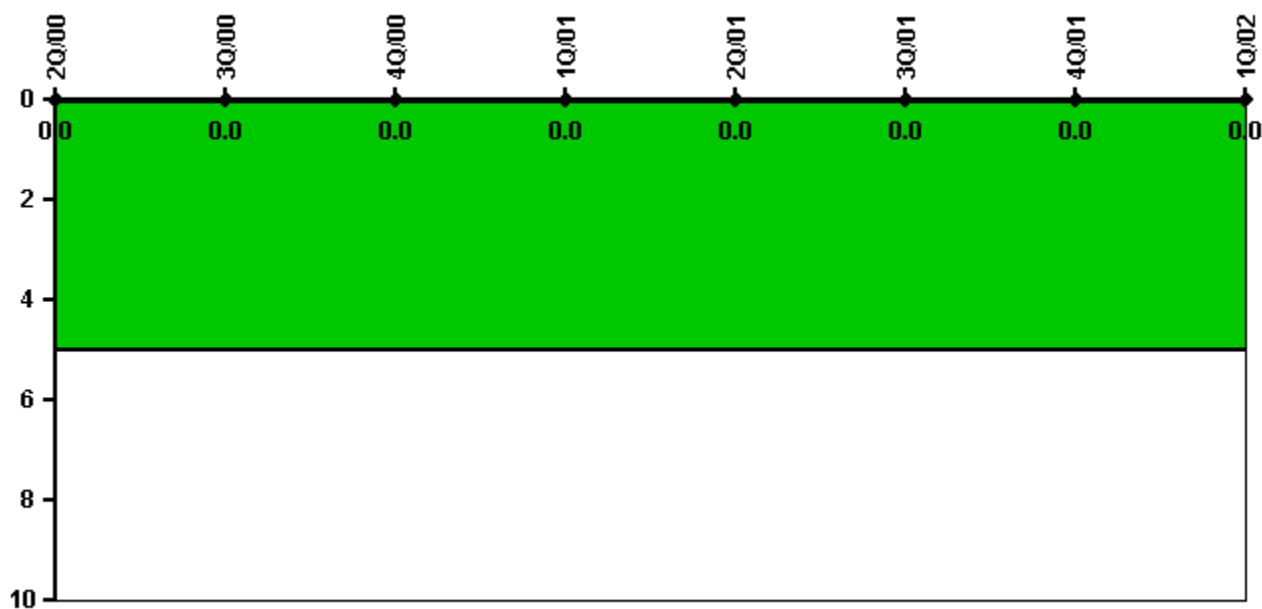
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	0.62	0.60	3.49	1.14	0.83	0	0	2.30
Unplanned unavailable hours	0.08	0	0	0	0	0	0	0
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	1933.04	2209.00	2146.67	1154.80	0	0	1851.33
Train 2								
Planned unavailable hours	0.65	1.80	3.67	1.17	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	1933.04	2209.00	2146.67	1154.80	0	0	1851.33
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	274.96	0	0	900.70	2208.00	2209.00	302.12
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	274.96	0	0	789.90	2208.00	2209.00	302.12
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Functional Failures (PWR)



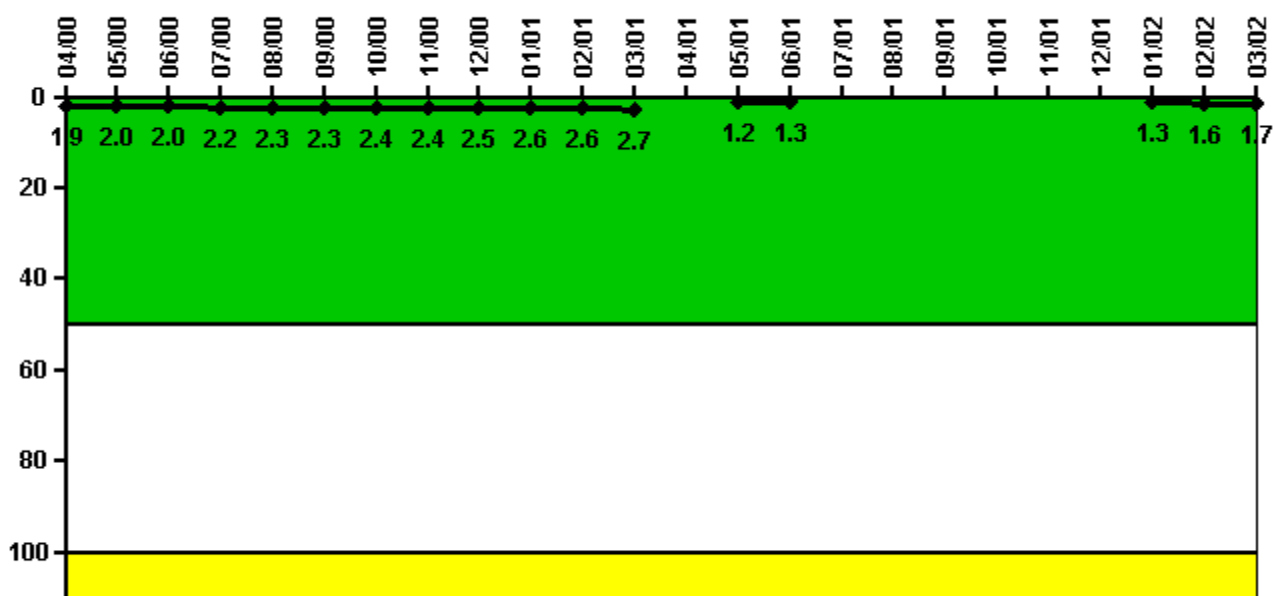
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

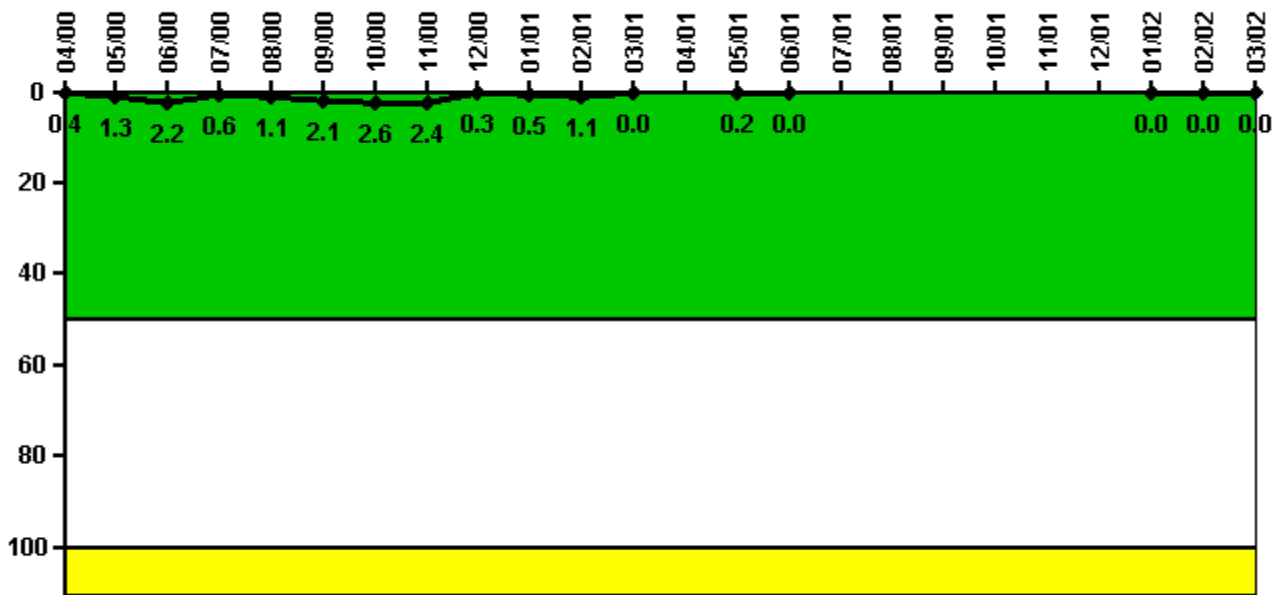
Notes

Reactor Coolant System Activity	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	0.018800	0.019800	0.020400	0.021600	0.022700	0.022500	0.024000	0.024300	0.024800	0.026300	0.025600	0.026500
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.9	2.0	2.0	2.2	2.3	2.3	2.4	2.4	2.5	2.6	2.6	2.7

Reactor Coolant System Activity	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum activity	N/A	0.012300	0.013000	N/A	N/A	N/A	N/A	N/A	N/A	0.013300	0.016400	0.017300
Technical specification limit	N/A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	1.2	1.3	N/A	N/A	N/A	N/A	N/A	N/A	1.3	1.6	1.7

Licensee Comments: none

Reactor Coolant System Leakage



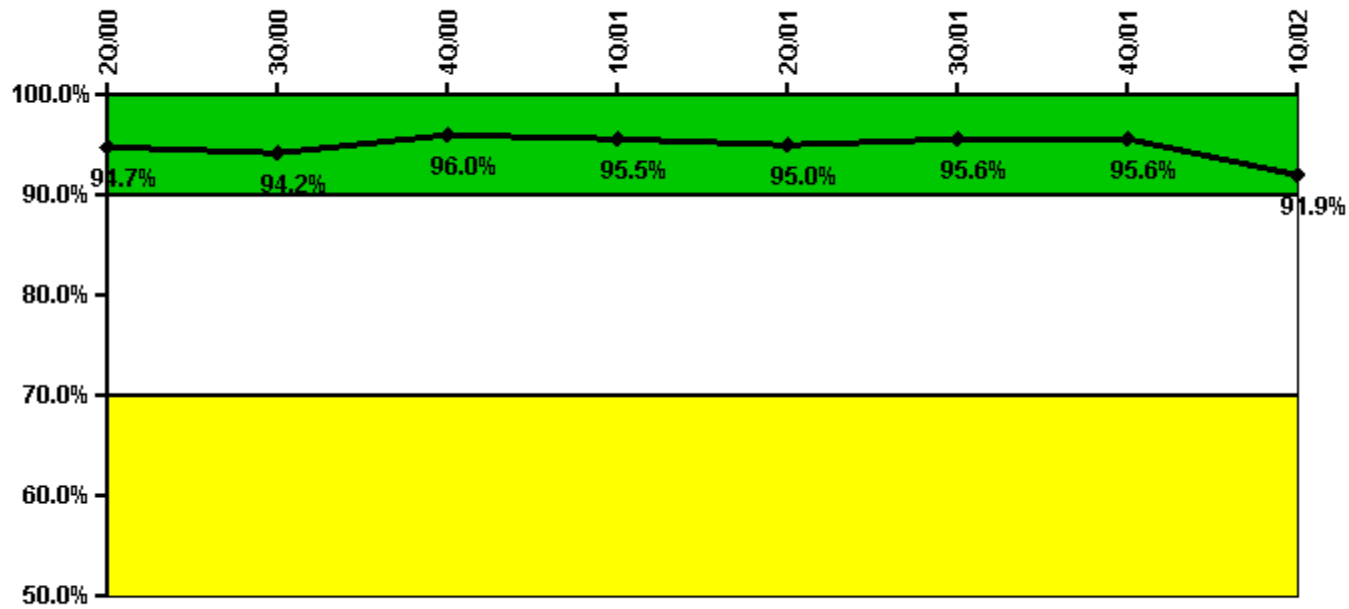
Thresholds: White > 50.0 Yellow > 100.0

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	0.041	0.128	0.216	0.060	0.112	0.214	0.261	0.241	0.030	0.047	0.112	0
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.4	1.3	2.2	0.6	1.1	2.1	2.6	2.4	0.3	0.5	1.1	0

Reactor Coolant System Leakage	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum leakage	N/A	0.015	0.003	N/A	N/A	N/A	N/A	N/A	N/A	0.003	0	0
Technical specification limit	N/A	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	N/A	0.2	0	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0

Licensee Comments: none

Drill/Exercise Performance

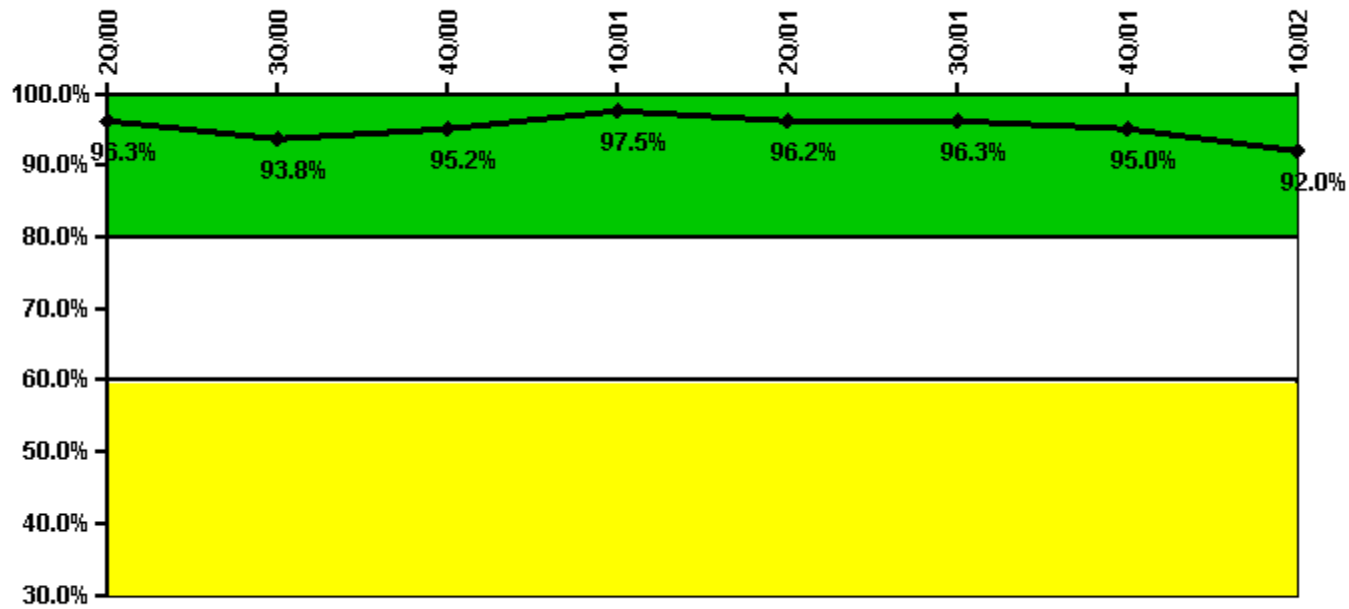
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful opportunities	21.0	5.0	10.0	13.0	0	2.0	0	17.0
Total opportunities	22.0	6.0	10.0	14.0	0	2.0	0	20.0
Indicator value	94.7%	94.2%	96.0%	95.5%	95.0%	95.6%	95.6%	91.9%

Licensee Comments: none

ERO Drill Participation



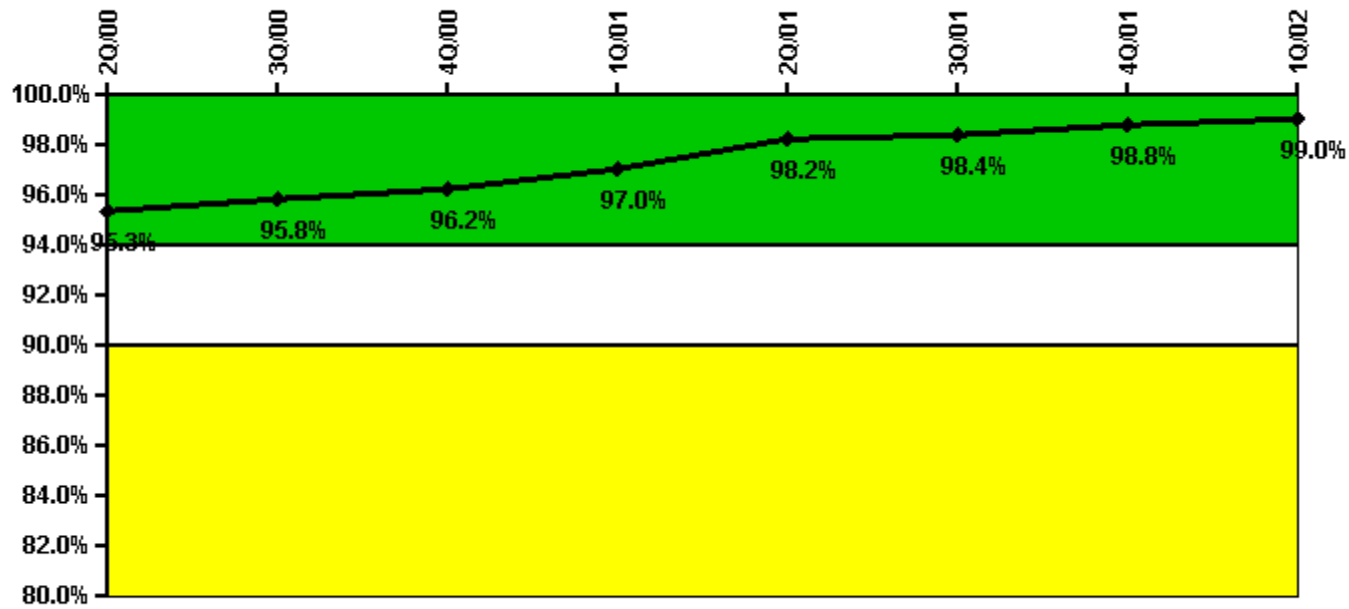
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Participating Key personnel	78.0	76.0	79.0	78.0	76.0	77.0	76.0	69.0
Total Key personnel	81.0	81.0	83.0	80.0	79.0	80.0	80.0	75.0
Indicator value	96.3%	93.8%	95.2%	97.5%	96.2%	96.3%	95.0%	92.0%

Licensee Comments: none

Alert & Notification System



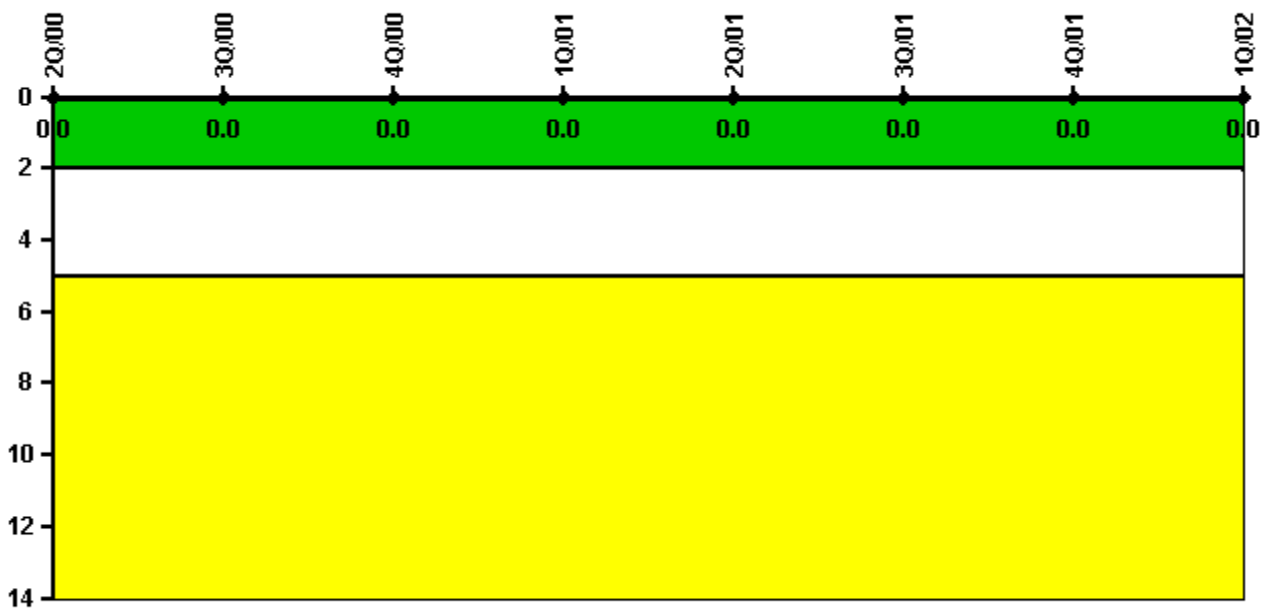
Thresholds: White < 94.0% Yellow < 98.0%

Notes

Alert & Notification System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful siren-tests	239	244	246	249	251	246	250	251
Total sirens-tests	252	252	252	252	252	252	252	252
Indicator value	95.3%	95.8%	96.2%	97.0%	98.2%	98.4%	98.8%	99.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness

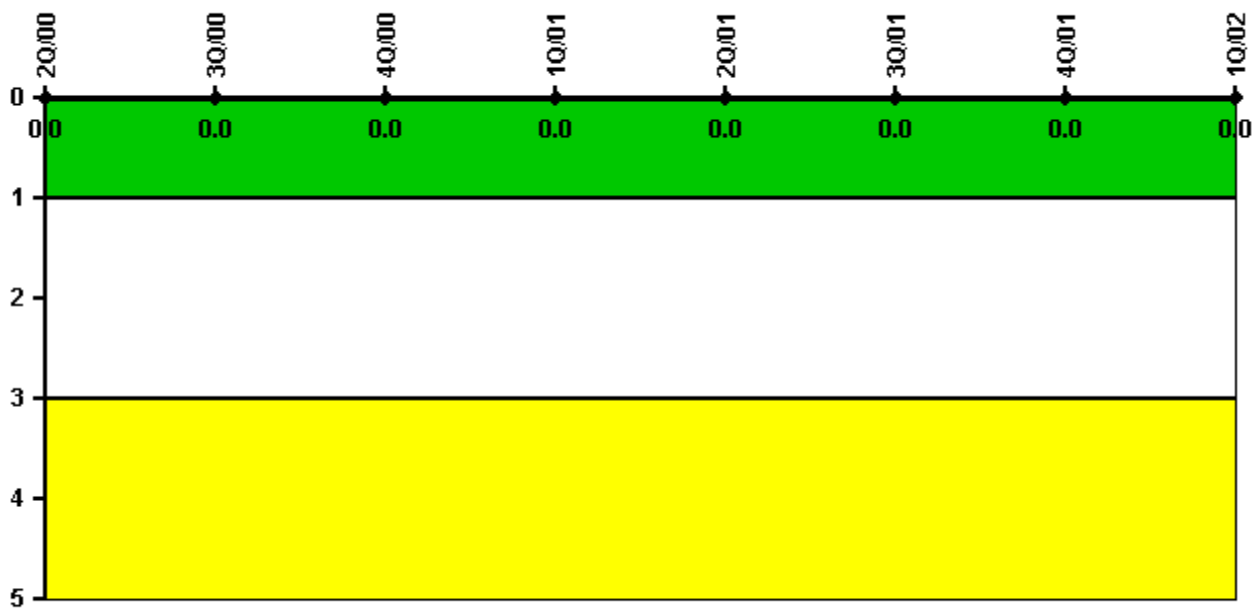


Thresholds: White > 2.0 Yellow > 5.0

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

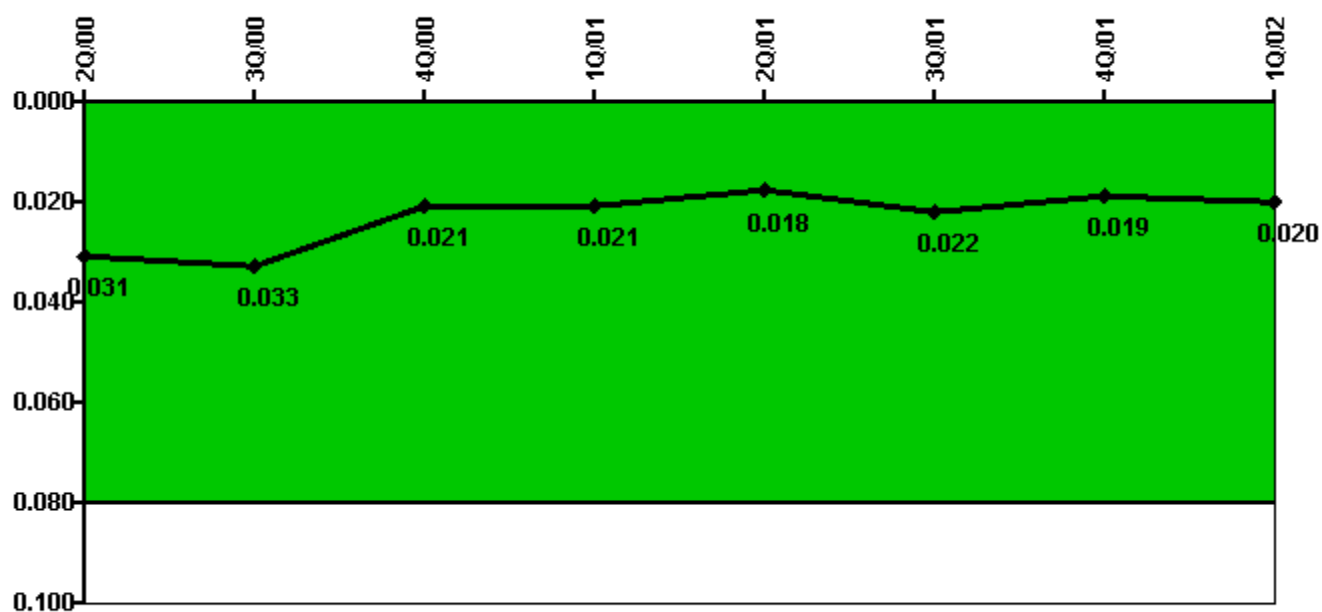
Thresholds: White > 1.0 Yellow > 3.0

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



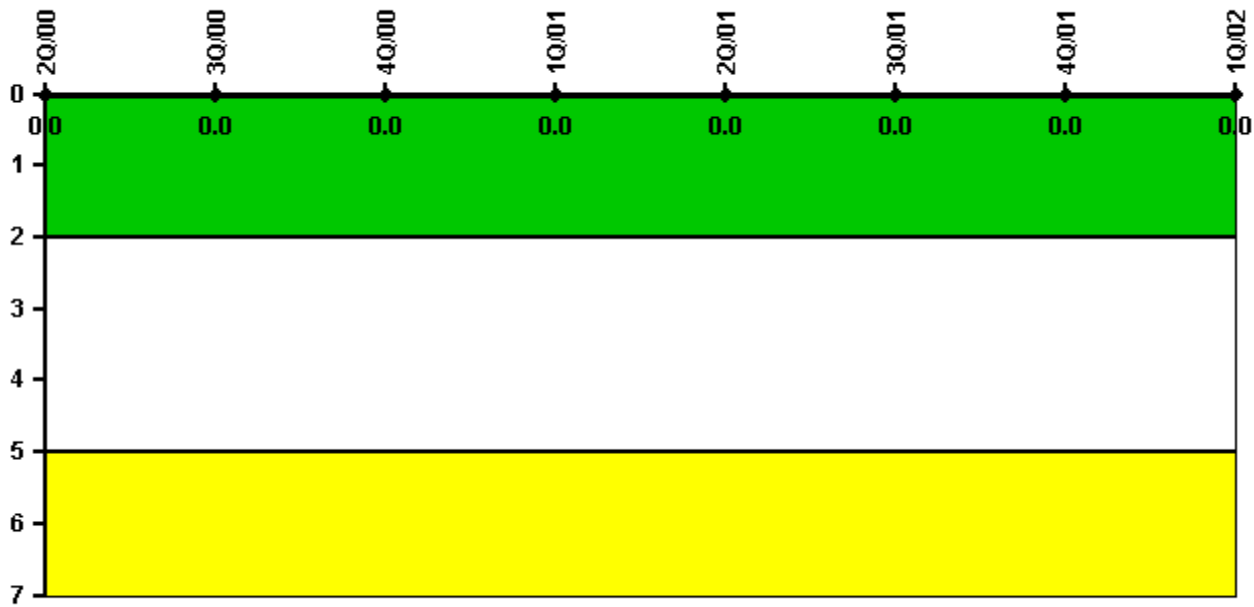
Thresholds: White > 0.080

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	201.00	81.82	196.99	64.37	126.28	163.03	136.99	74.69
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.031	0.033	0.021	0.021	0.018	0.022	0.019	0.020

Licensee Comments: none

Personnel Screening Program

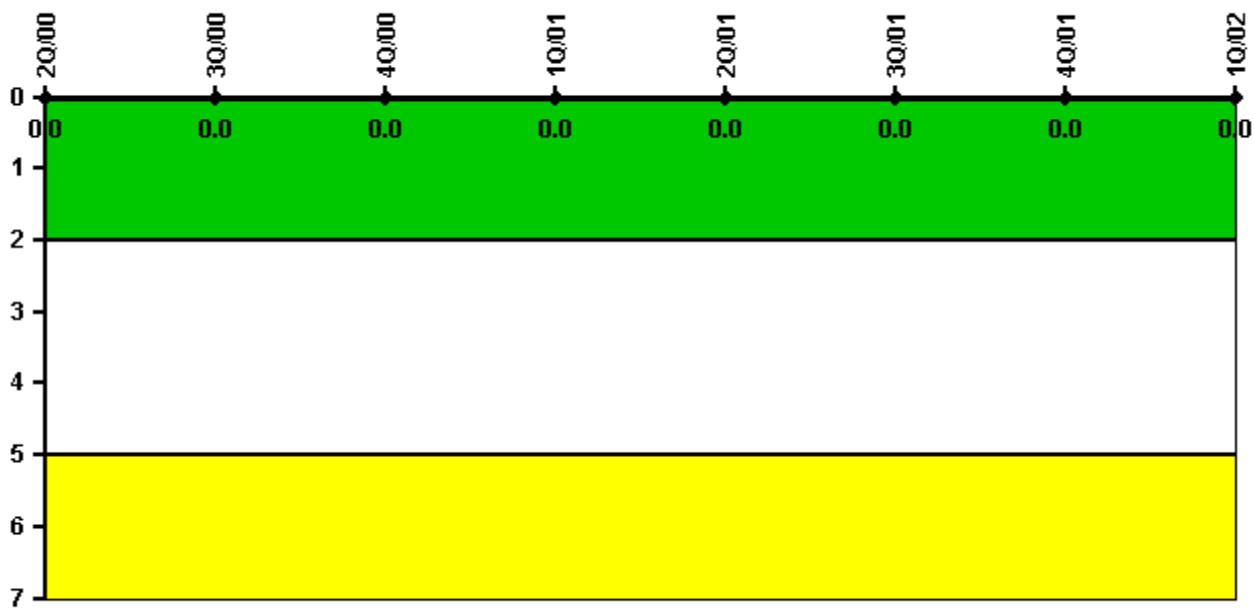


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

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

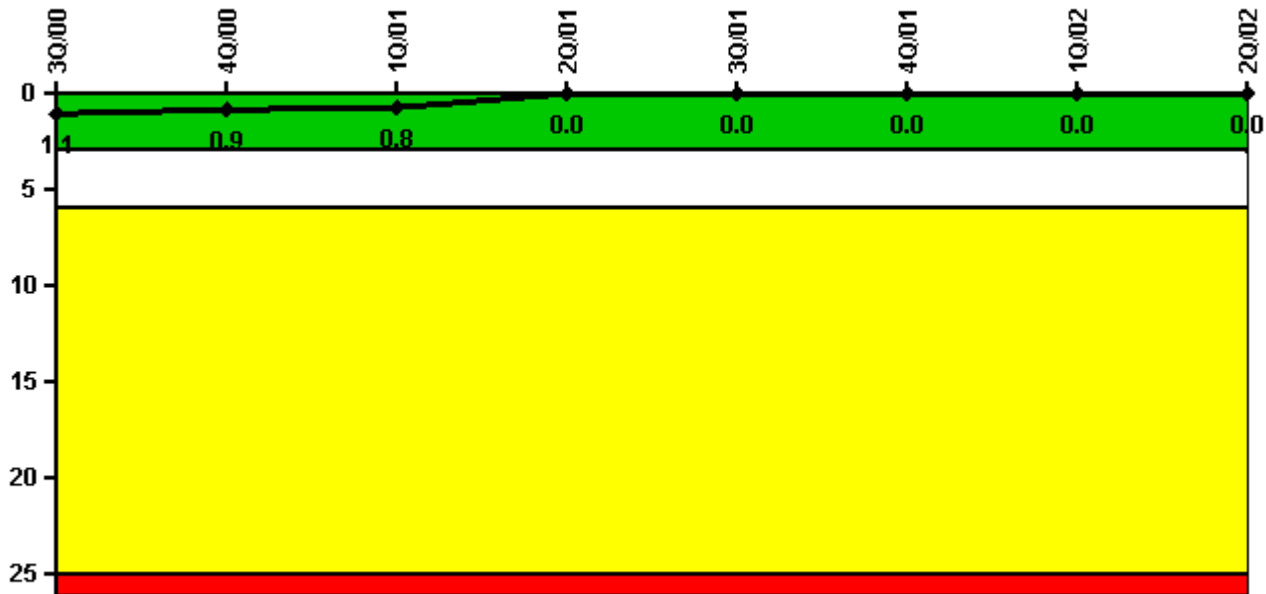
Last Modified: May 1, 2002

Palisades

2Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



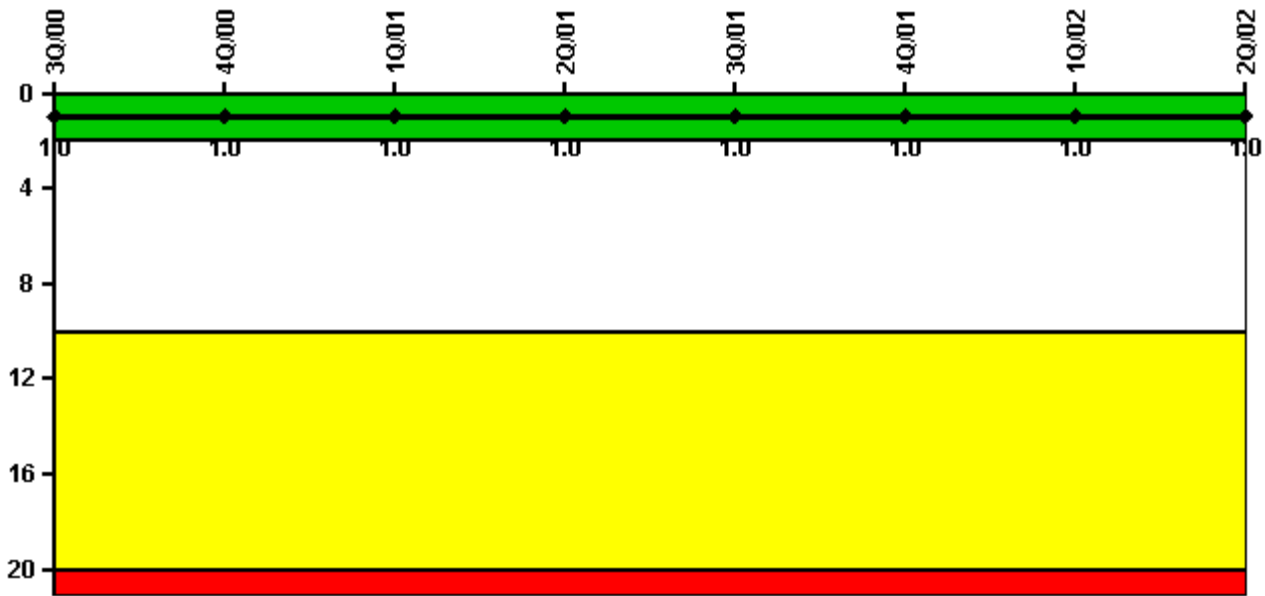
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1785.0	2209.0	2133.8	1050.3	0	0	1768.4	2183.0
Indicator value	1.1	0.9	0.8	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



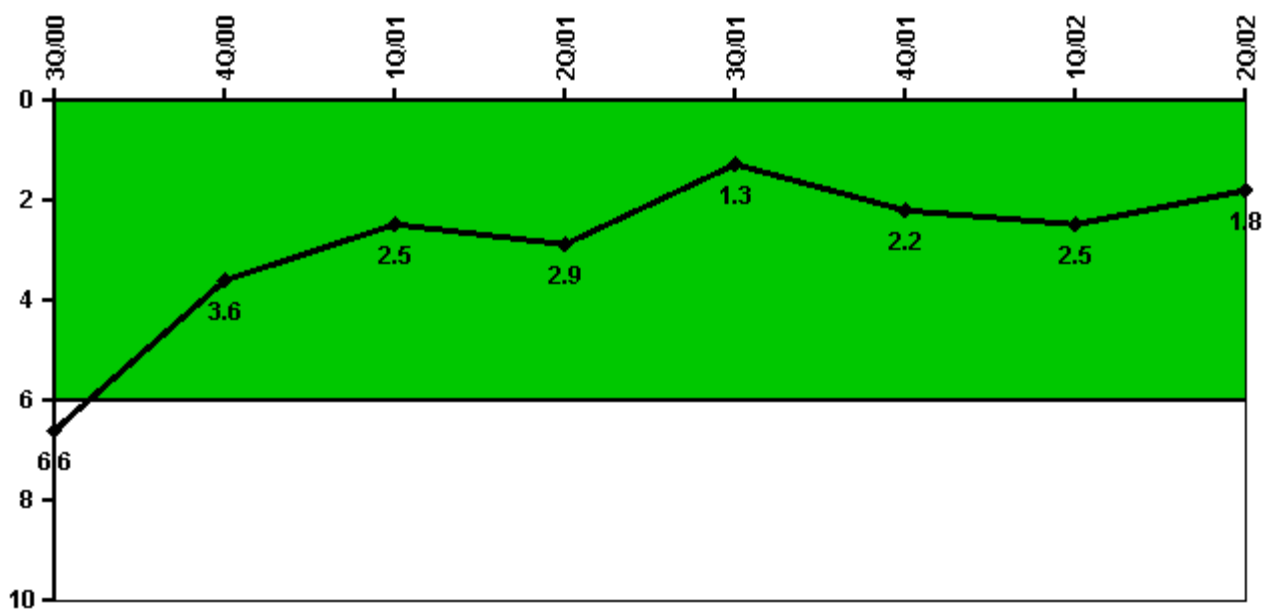
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



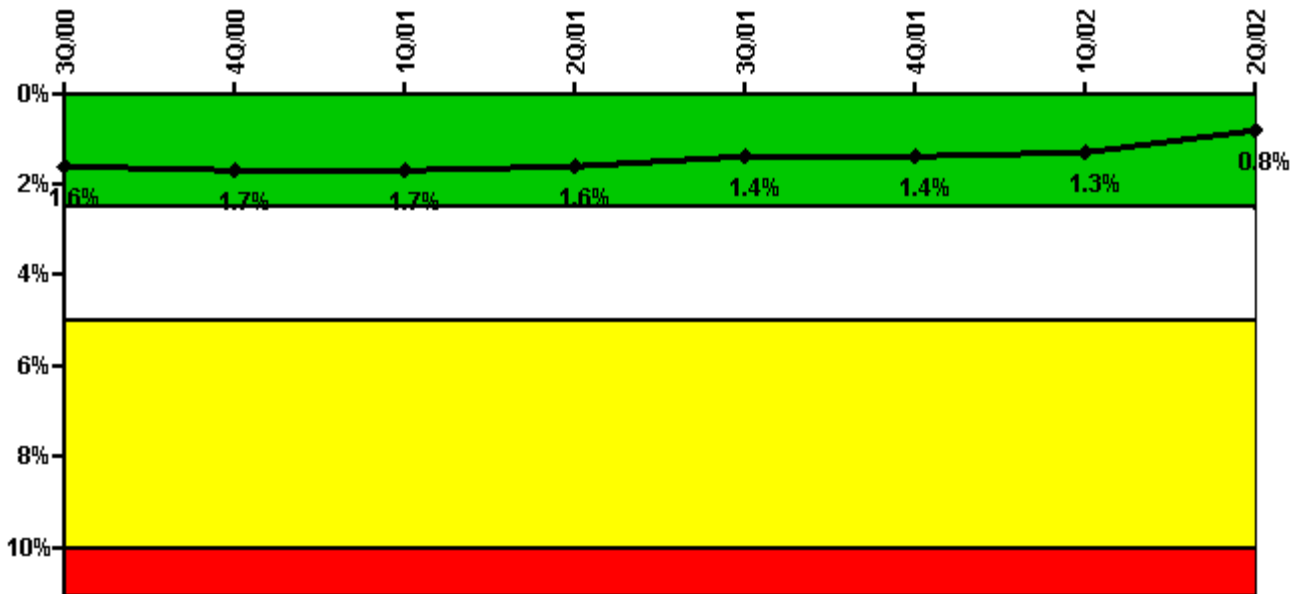
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned power changes	2.0	0	0	1.0	0	0	0	1.0
Critical hours	1785.0	2209.0	2133.8	1050.3	0	0	1768.4	2183.0
Indicator value	6.6	3.6	2.5	2.9	1.3	2.2	2.5	1.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



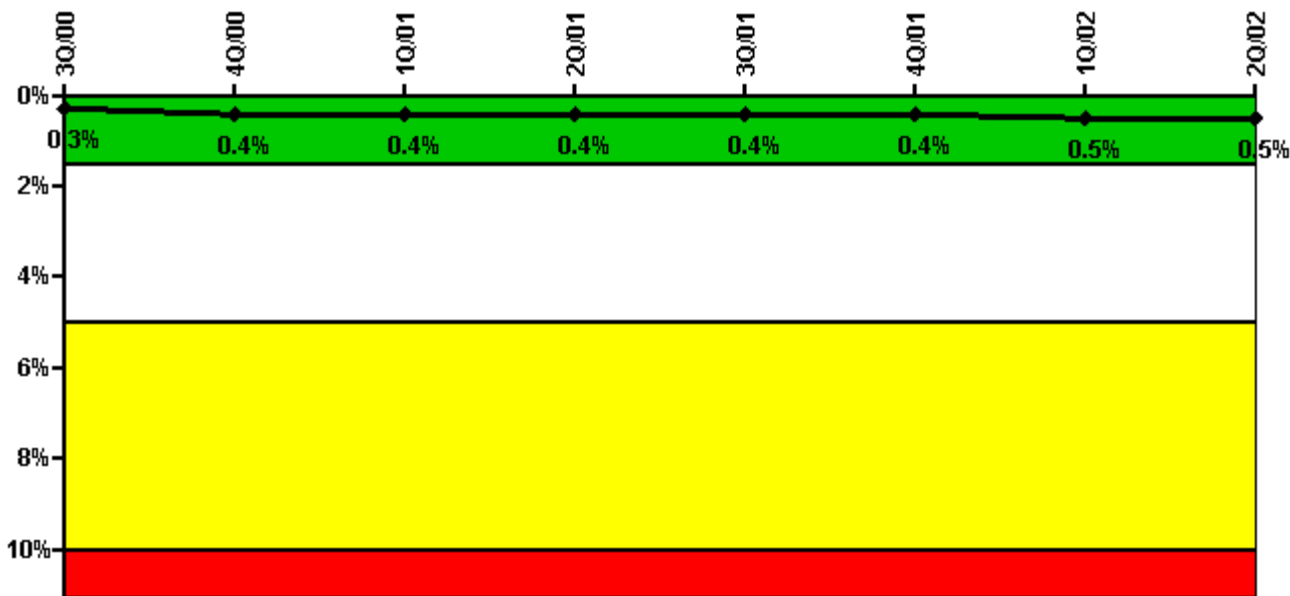
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	0.39	55.88	19.62	0.67	0	0	0.57	47.22
Unplanned unavailable hours	0	49.28	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	0.58	25.68	2.20	0.28	0	0	0.99	0.57
Unplanned unavailable hours	0	0	0	0	0	0	6.18	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	1.6%	1.7%	1.7%	1.6%	1.4%	1.4%	1.3%	0.8%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



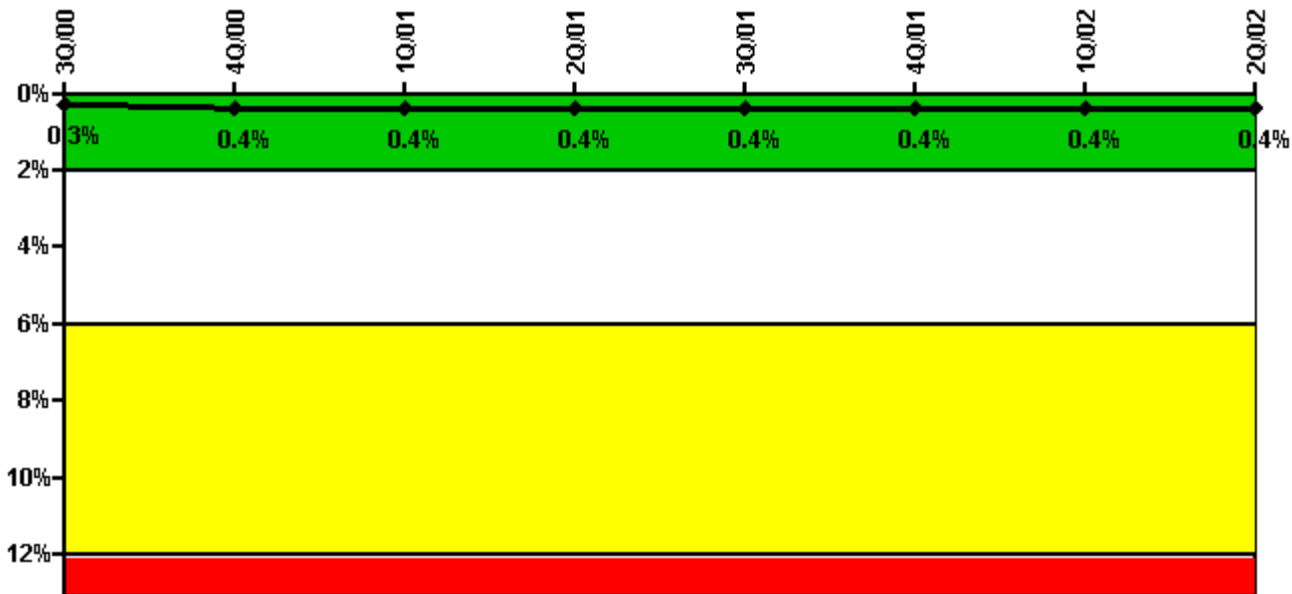
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	25.40	14.52	16.59	0.27	0	0	10.93	0
Unplanned unavailable hours	23.18	0	0	0	0	0	8.72	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1933.04	2209.00	2146.67	1154.80	0	0	1851.33	2183.00
Train 2								
Planned unavailable hours	0	10.27	3.72	0	0	0	12.58	23.08
Unplanned unavailable hours	0	0.27	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1933.04	2209.00	2146.67	1154.80	0	0	1851.33	2183.00
Indicator value	0.3%	0.4%	0.4%	0.4%	0.4%	0.4%	0.5%	0.5%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



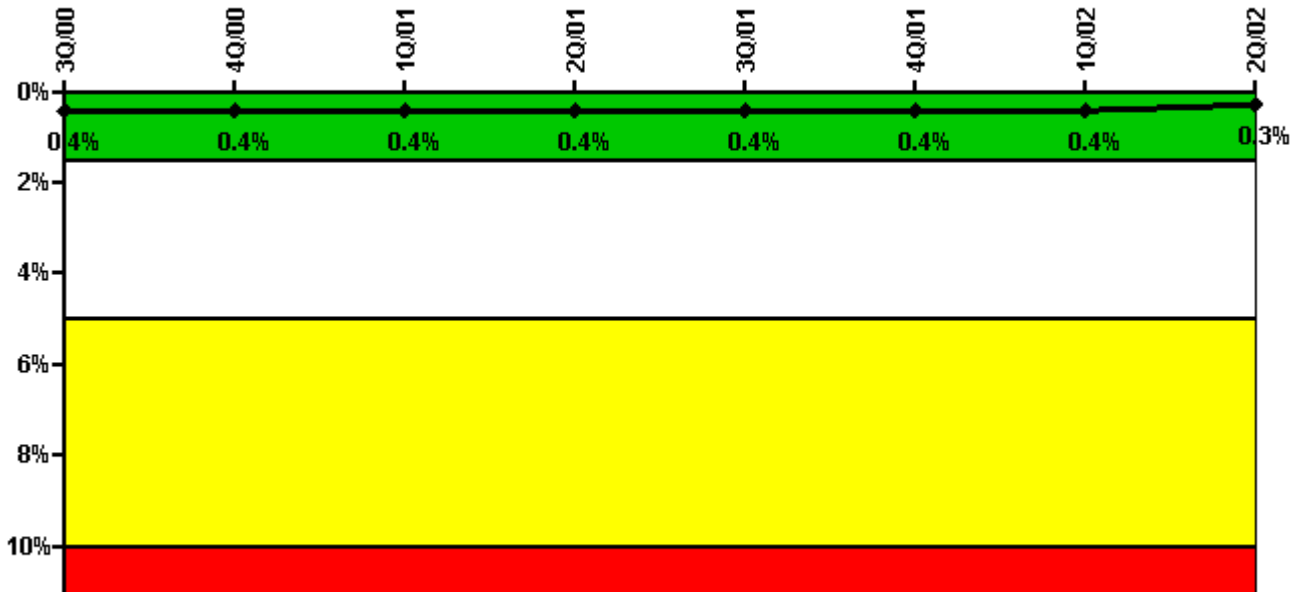
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	16.97	36.22	22.06	0.73	0	0	4.40	2.48
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1933.00	2209.00	2146.67	1154.80	0	0	1851.33	2183.00
Train 2								
Planned unavailable hours	0.62	5.64	8.90	0	0	0	1.22	3.55
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	1933.00	2209.00	2146.67	1072.40	0	0	1768.40	2183.00
Train 3								
Planned unavailable hours	18.15	0.77	9.84	0	0	0	1.08	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	1933.00	2209.00	2146.67	1154.80	0	0	1851.33	2183.00
Indicator value	0.3%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

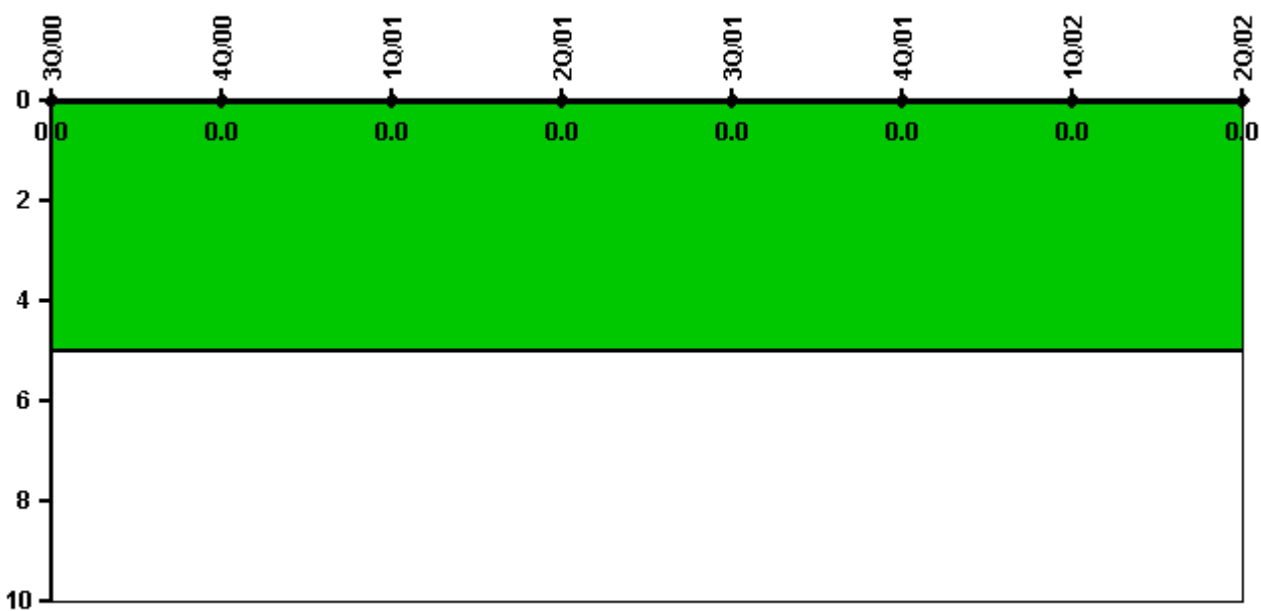
Notes

Safety System Unavailability, Residual Heat Removal System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	0.60	3.49	1.14	0.83	0	0	2.30	0.92
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	1933.04	2209.00	2146.67	1154.80	0	0	1851.33	2183.00
Train 2								
Planned unavailable hours	1.80	3.67	1.17	0	0	0	0	0.66
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1933.04	2209.00	2146.67	1154.80	0	0	1851.33	2183.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	274.96	0	0	900.70	2208.00	2209.00	302.12	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	274.96	0	0	789.90	2208.00	2209.00	302.12	0
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.3%

Licensee Comments: none

Safety System Functional Failures (PWR)



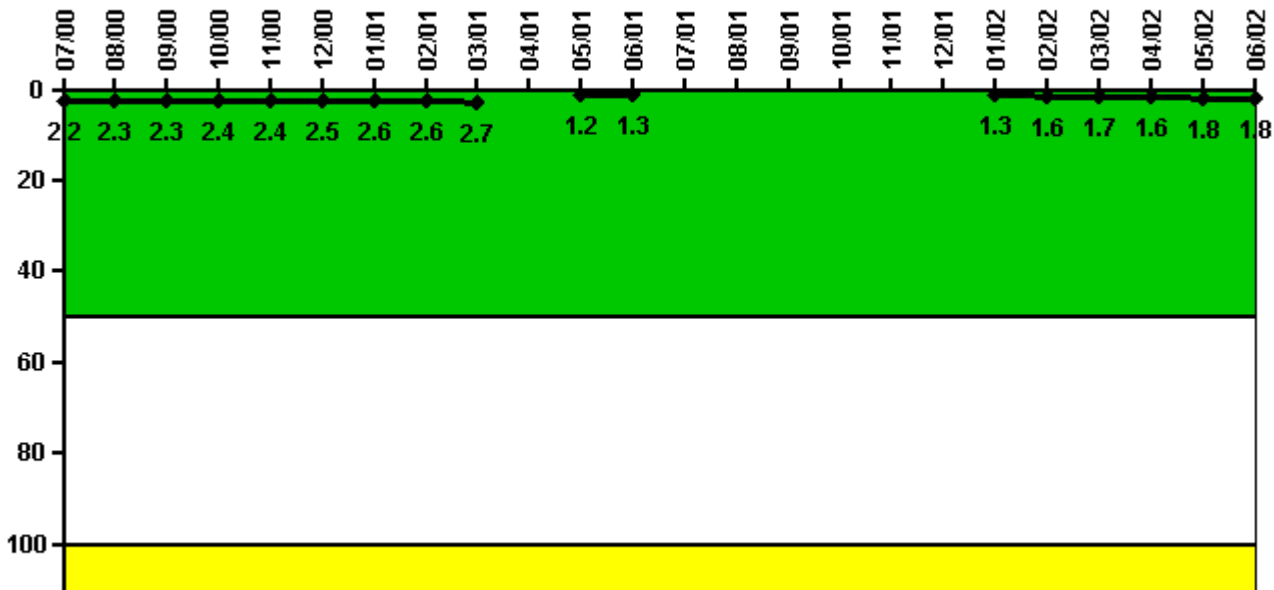
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

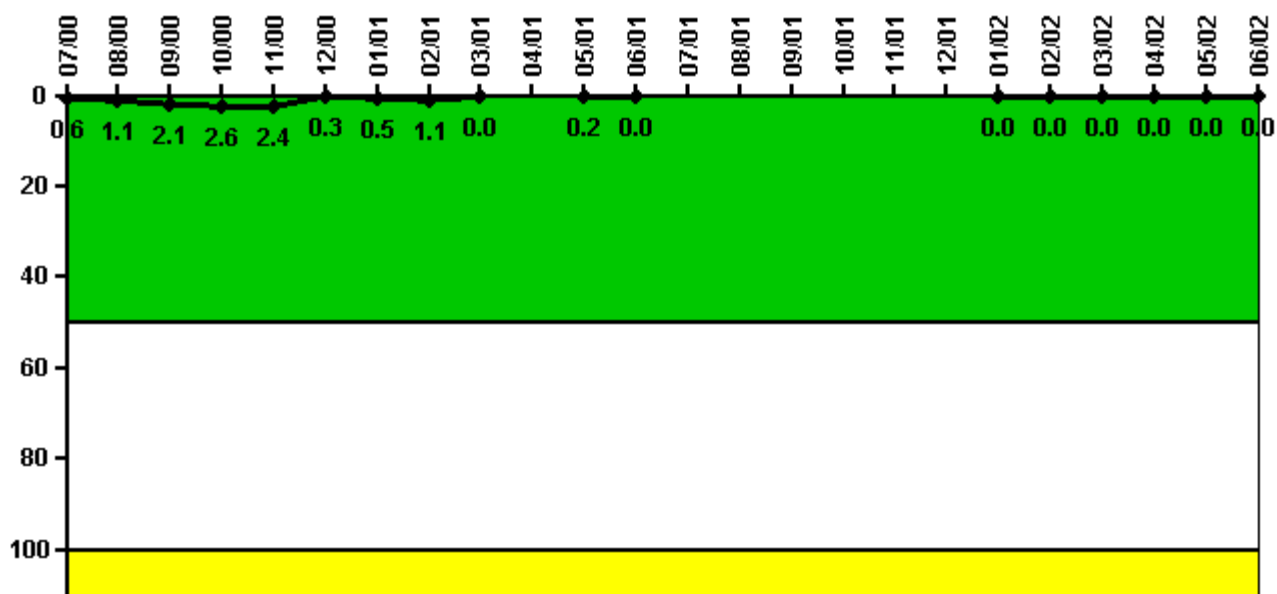
Notes

Reactor Coolant System Activity	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	0.021600	0.022700	0.022500	0.024000	0.024300	0.024800	0.026300	0.025600	0.026500	N/A	0.012300	0.013000
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	N/A	1.0	1.0
Indicator value	2.2	2.3	2.3	2.4	2.4	2.5	2.6	2.6	2.7	N/A	1.2	1.3

Reactor Coolant System Activity	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum activity	N/A	N/A	N/A	N/A	N/A	N/A	0.013300	0.016400	0.017300	0.016300	0.018100	0.018100
Technical specification limit	1.0	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	N/A	N/A	N/A	N/A	1.3	1.6	1.7	1.6	1.8	1.8

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

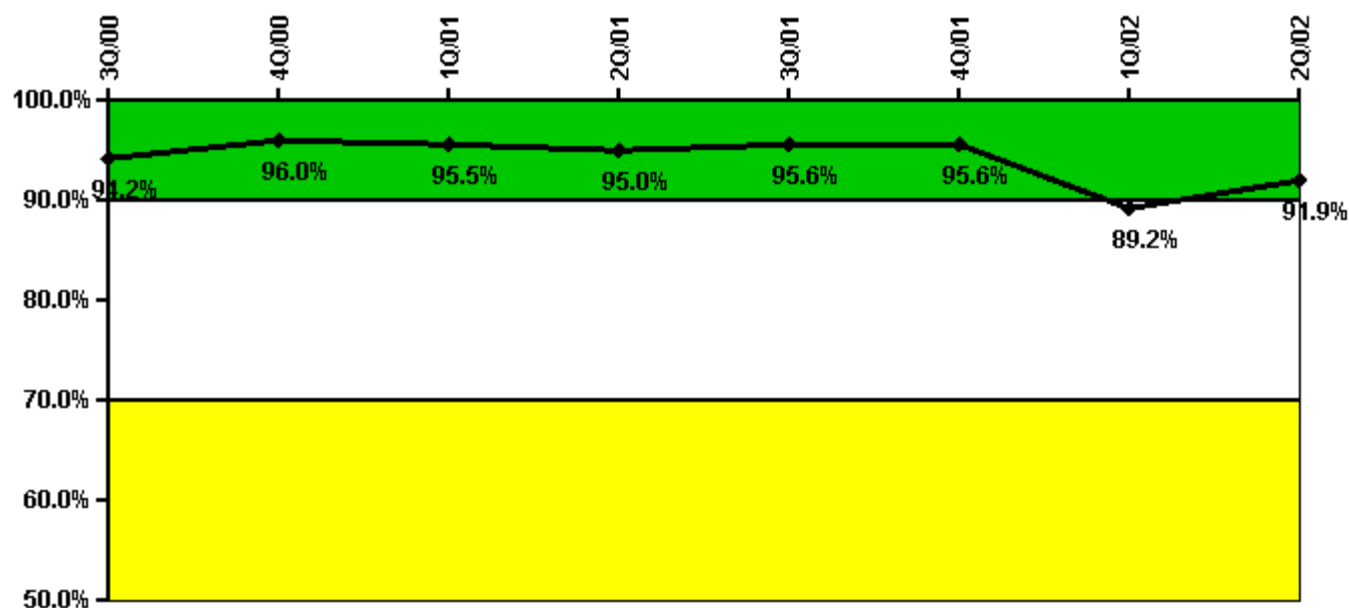
Notes

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	0.060	0.112	0.214	0.261	0.241	0.030	0.047	0.112	0	N/A	0.015	0.003
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	N/A	10.0	10.0
Indicator value	0.6	1.1	2.1	2.6	2.4	0.3	0.5	1.1	0	N/A	0.2	0

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	N/A	N/A	N/A	N/A	N/A	N/A	0.003	0	0	0.002	0	0.002
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

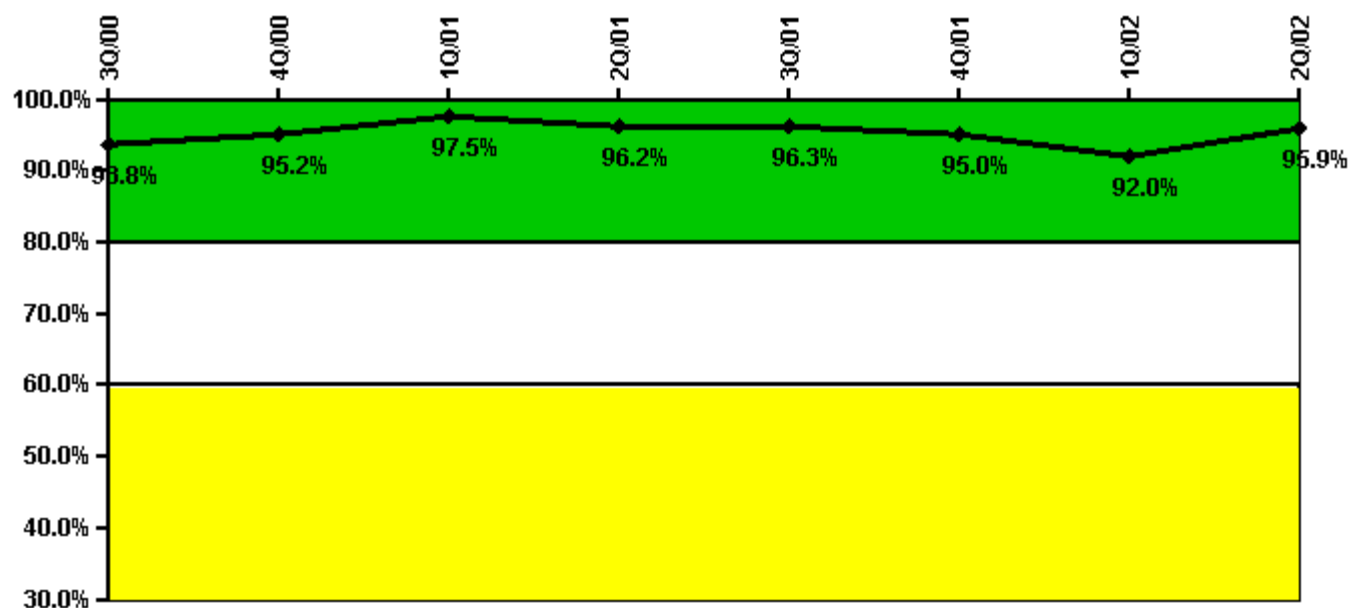
Notes

Drill/Exercise Performance	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful opportunities	5.0	10.0	13.0	0	2.0	0	15.0	69.0
Total opportunities	6.0	10.0	14.0	0	2.0	0	20.0	72.0
Indicator value	94.2%	96.0%	95.5%	95.0%	95.6%	95.6%	89.2%	91.9%

Licensee Comments:

1Q/02: Changed the number of drill, exercises, and actual event opportunities from 17 to 15 as a result of assessing operator simulator scenario off site notification forms. Two forms were discovered that were not checked either "this is a drill" or "this is not a drill." Errors in the notification forms were discovered and documented in NRC Inspection Report 50-255/02-06(DRS) and were evaluated internally via C-PAL-02-02177.

ERO Drill Participation



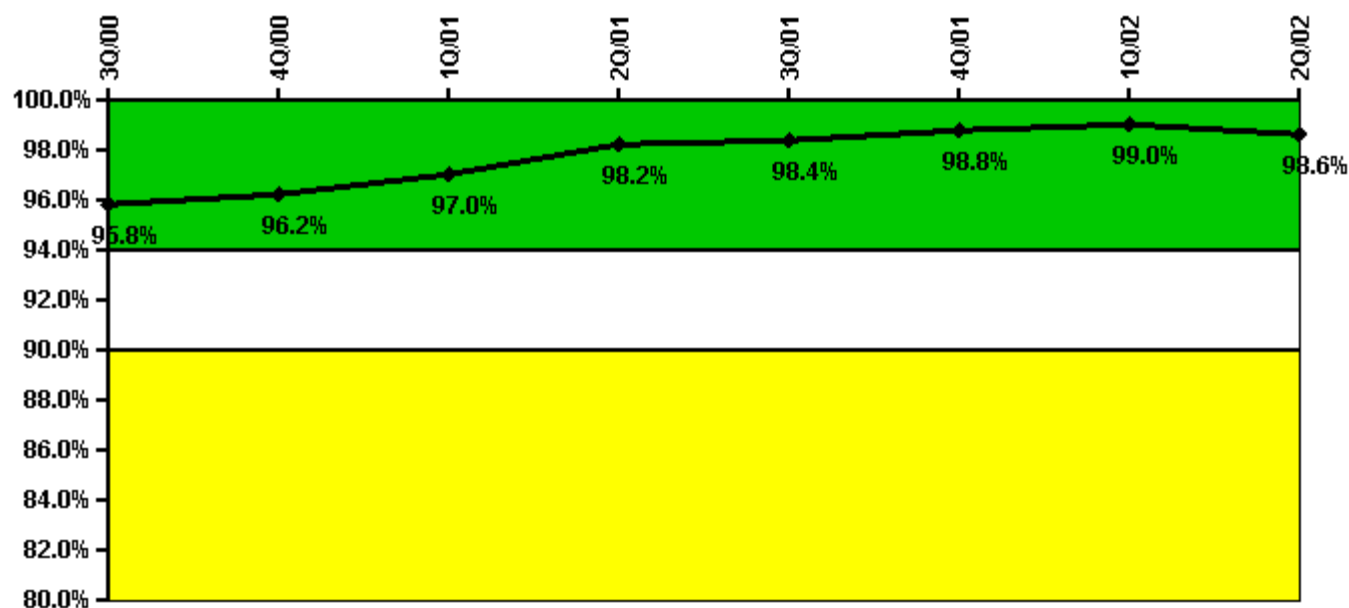
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Participating Key personnel	76.0	79.0	78.0	76.0	77.0	76.0	69.0	71.0
Total Key personnel	81.0	83.0	80.0	79.0	80.0	80.0	75.0	74.0
Indicator value	93.8%	95.2%	97.5%	96.2%	96.3%	95.0%	92.0%	95.9%

Licensee Comments: none

Alert & Notification System



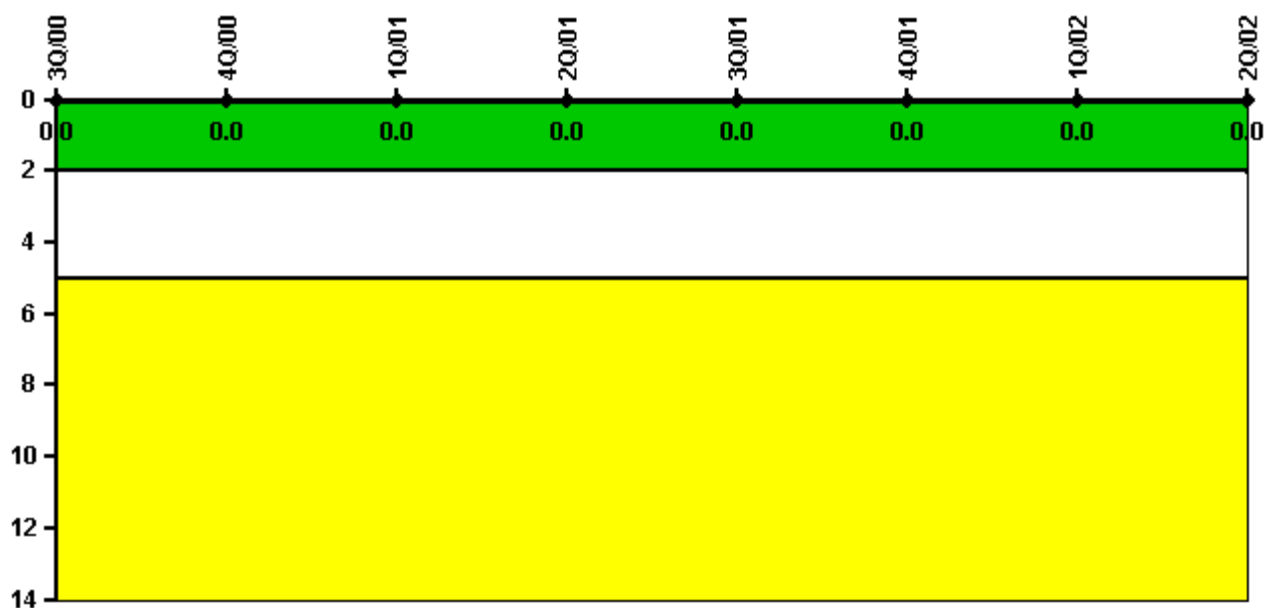
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful siren-tests	244	246	249	251	246	250	251	247
Total sirens-tests	252	252	252	252	252	252	252	252
Indicator value	95.8%	96.2%	97.0%	98.2%	98.4%	98.8%	99.0%	98.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness

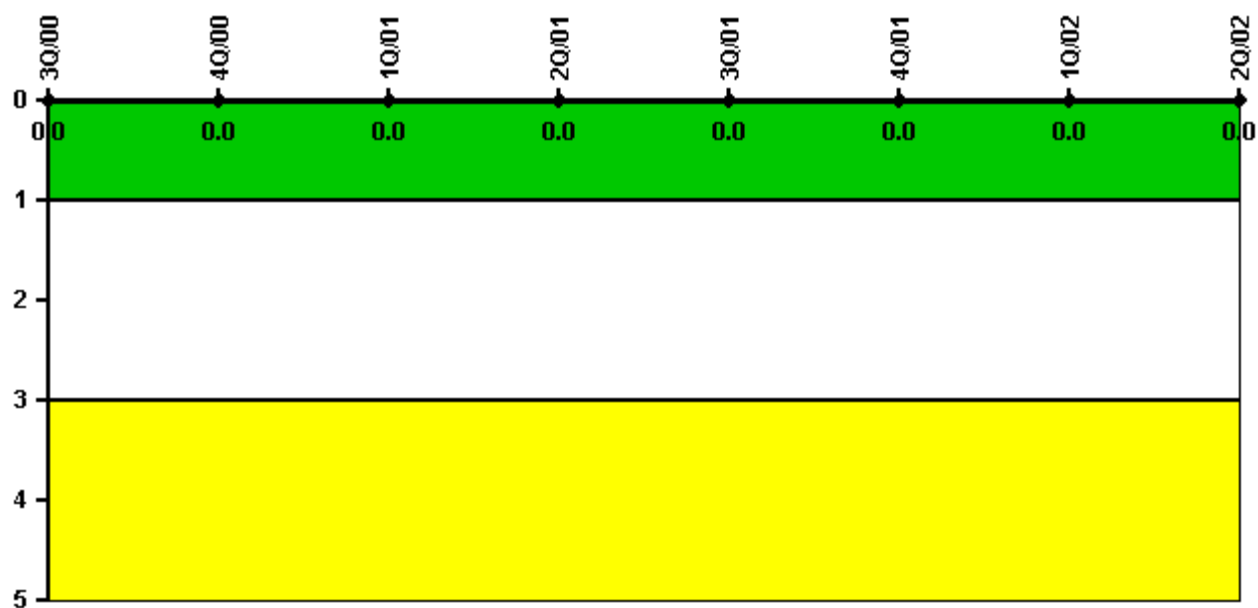


Thresholds: White > 2.0 Yellow > 5.0

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

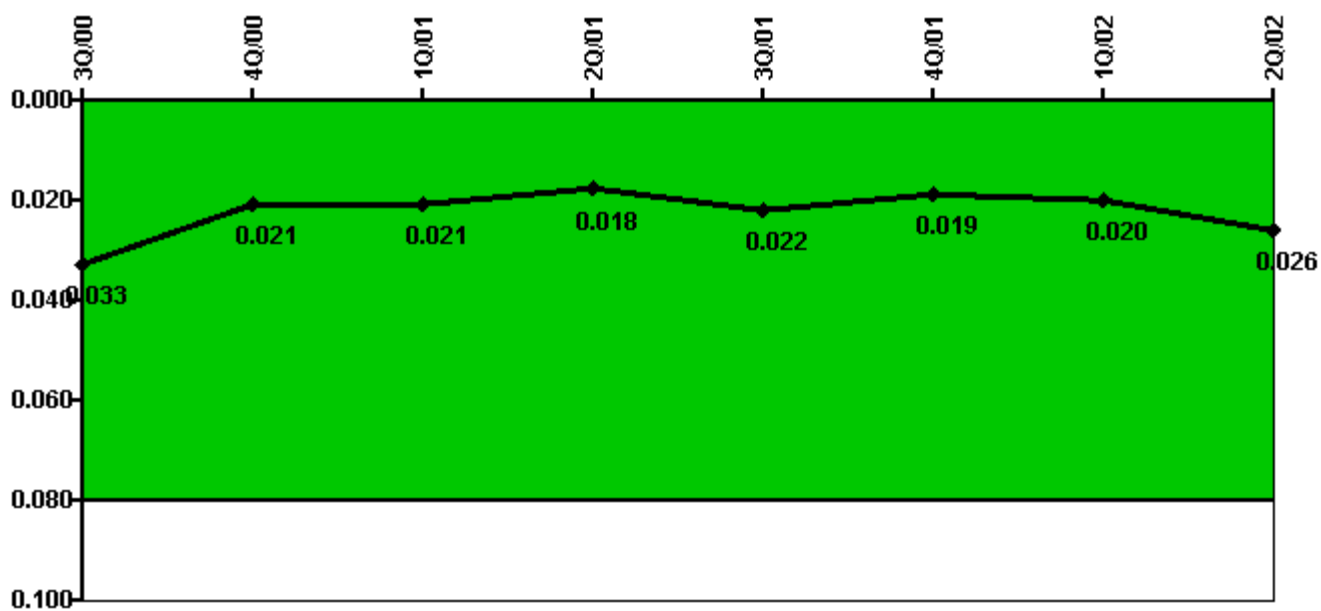
Thresholds: White > 1.0 Yellow > 3.0

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



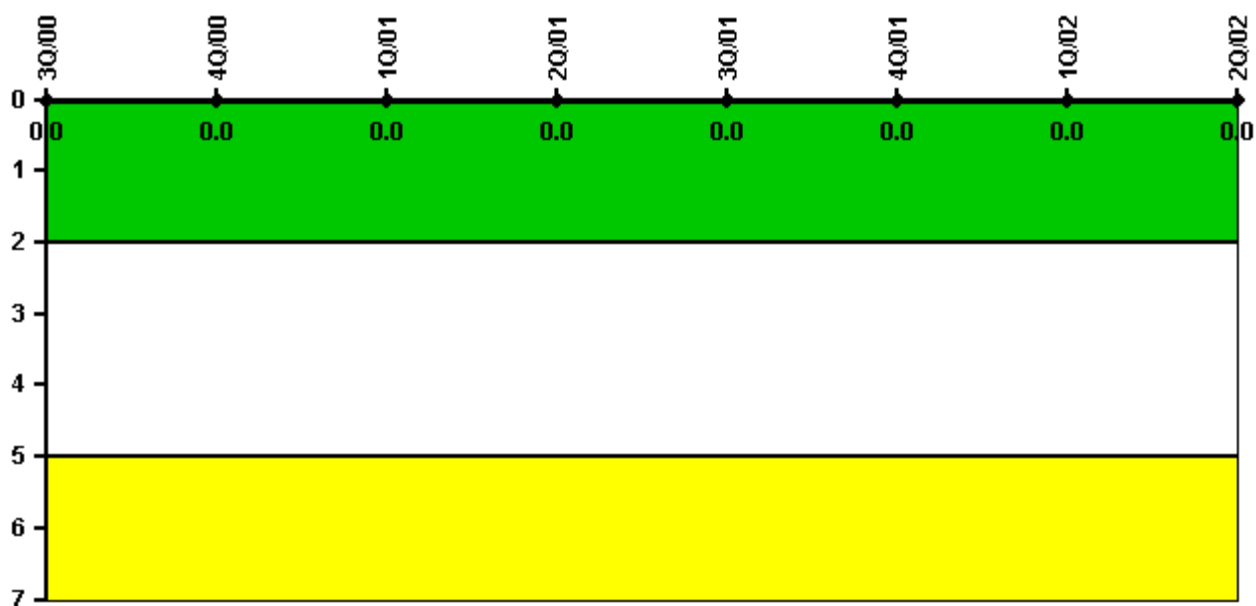
Thresholds: White > 0.080

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	81.82	196.99	64.37	126.28	163.03	136.99	74.69	279.20
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.033	0.021	0.021	0.018	0.022	0.019	0.020	0.026

Licensee Comments: none

Personnel Screening Program



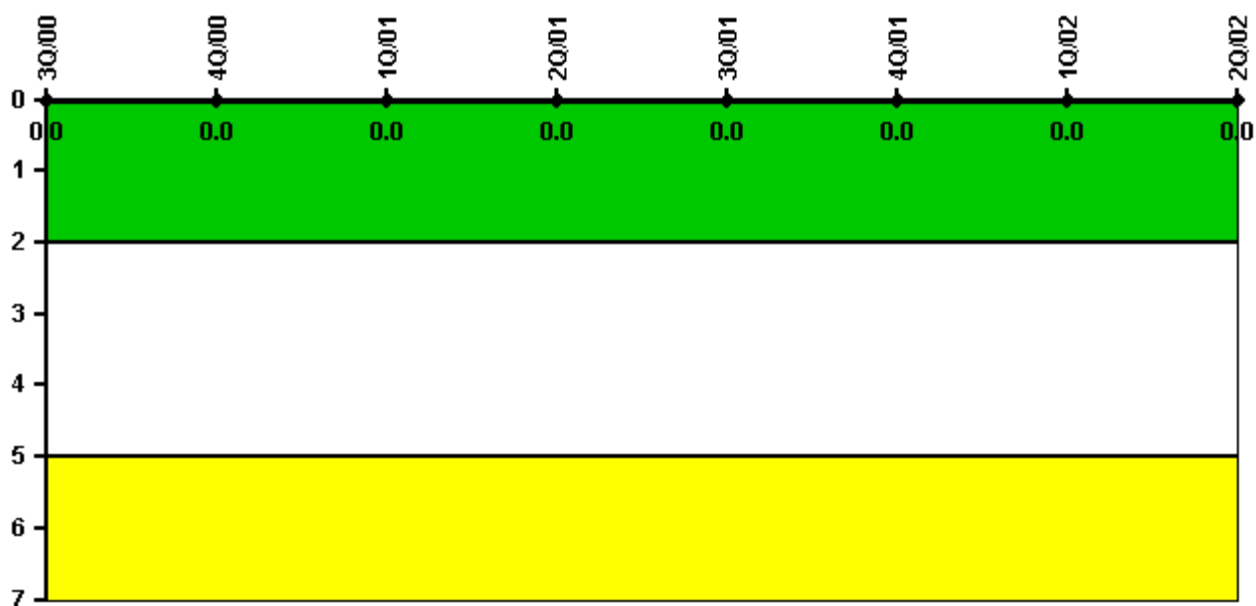
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

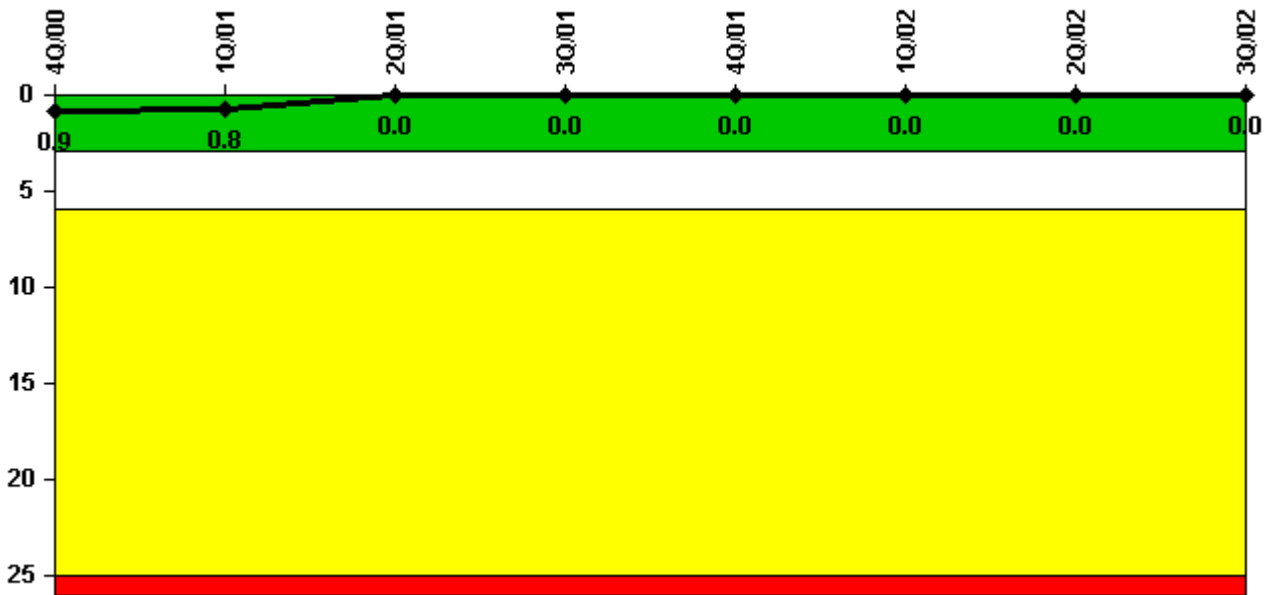
Last Modified: July 31, 2002

Palisades

3Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2133.8	1050.3	0	0	1768.4	2183.0	2208.0
Indicator value	0.9	0.8	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



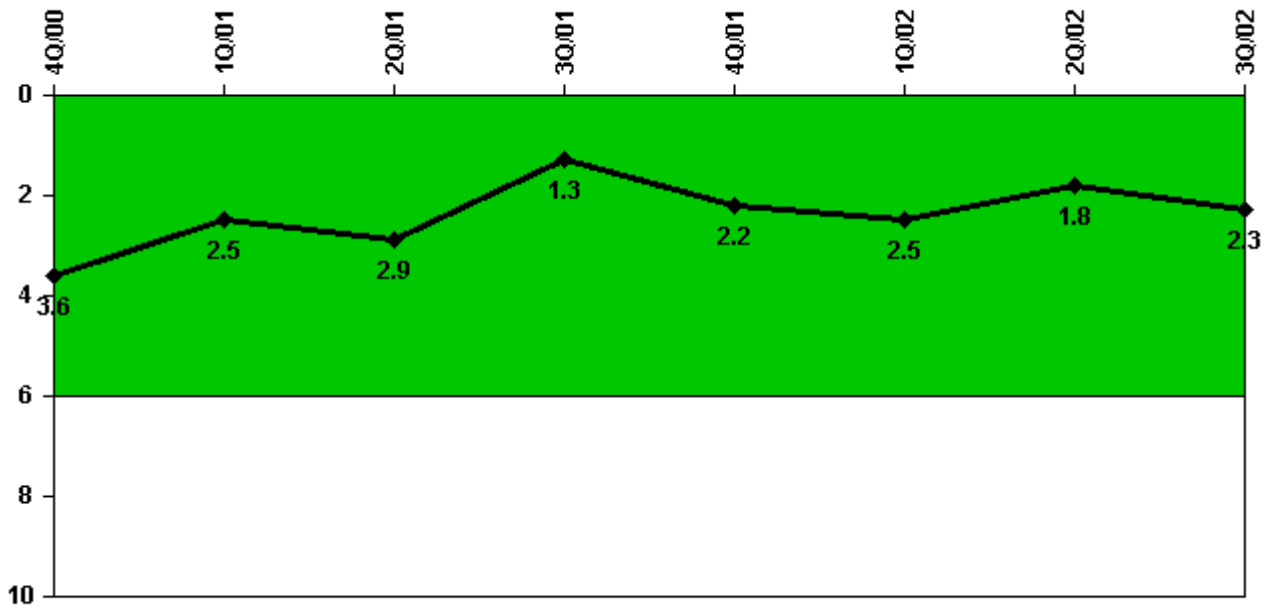
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



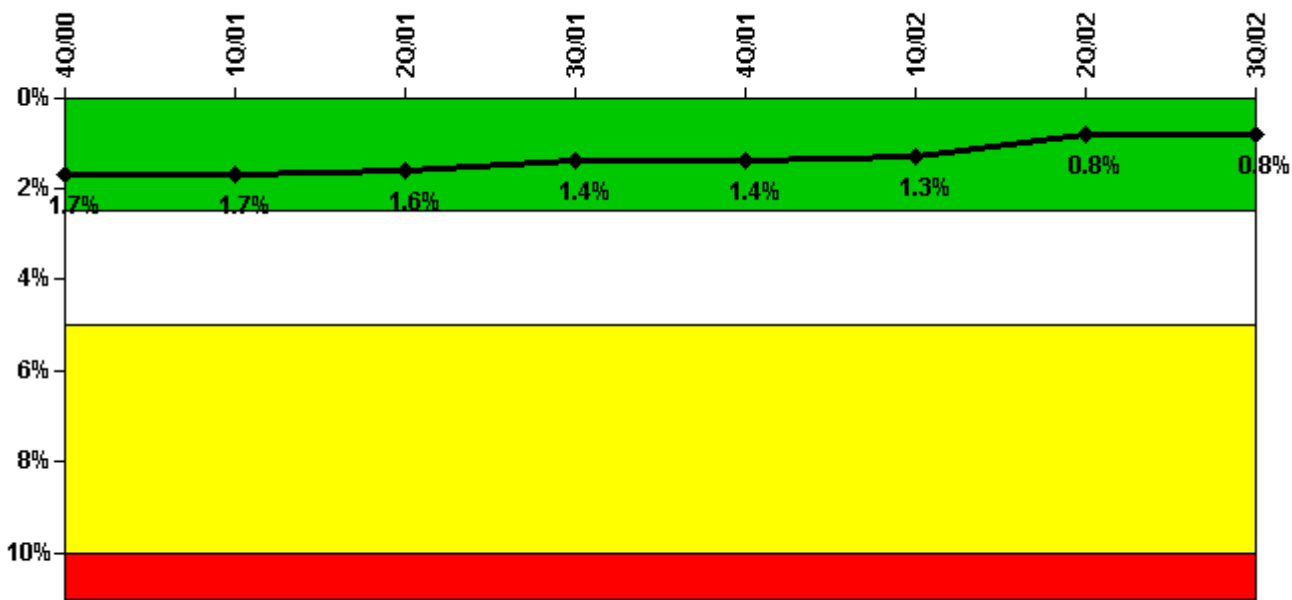
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned power changes	0	0	1.0	0	0	0	1.0	1.0
Critical hours	2209.0	2133.8	1050.3	0	0	1768.4	2183.0	2208.0
Indicator value	3.6	2.5	2.9	1.3	2.2	2.5	1.8	2.3

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



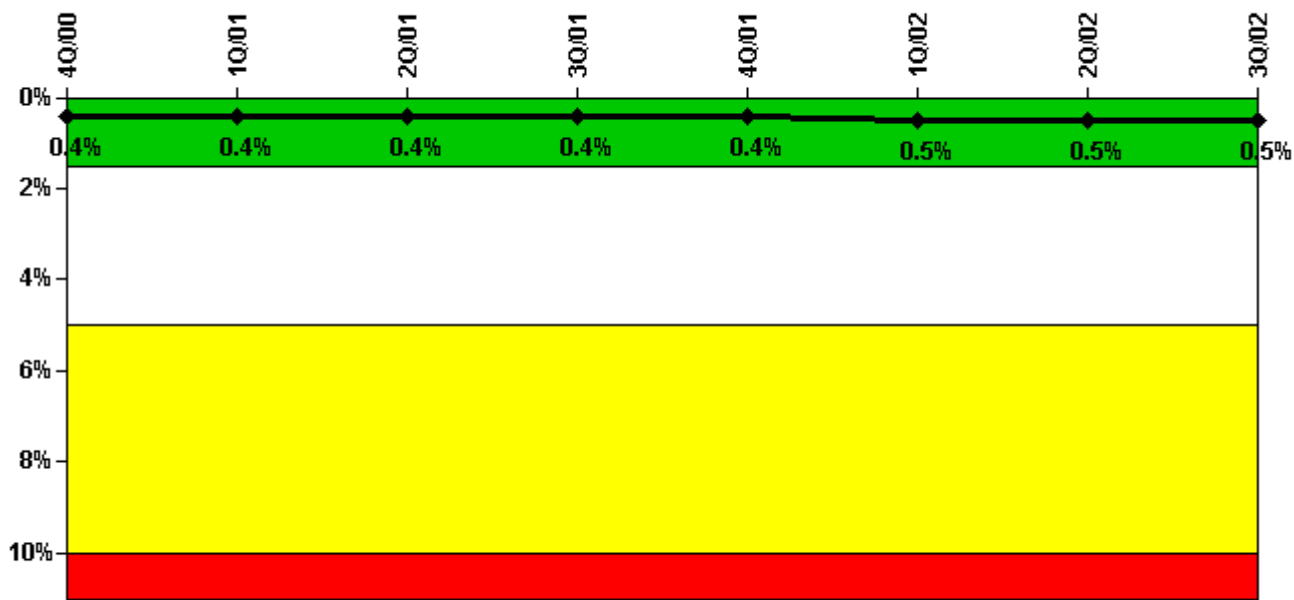
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

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	55.88	19.62	0.67	0	0	0.57	47.22	3.75
Unplanned unavailable hours	49.28	0	0	0	0	0	0	5.72
Fault exposure hours	0	0	0	0	0	0	0	4.57
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	25.68	2.20	0.28	0	0	0.99	0.57	3.23
Unplanned unavailable hours	0	0	0	0	0	6.18	0	32.32
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	1.7%	1.7%	1.6%	1.4%	1.4%	1.3%	0.8%	0.8%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



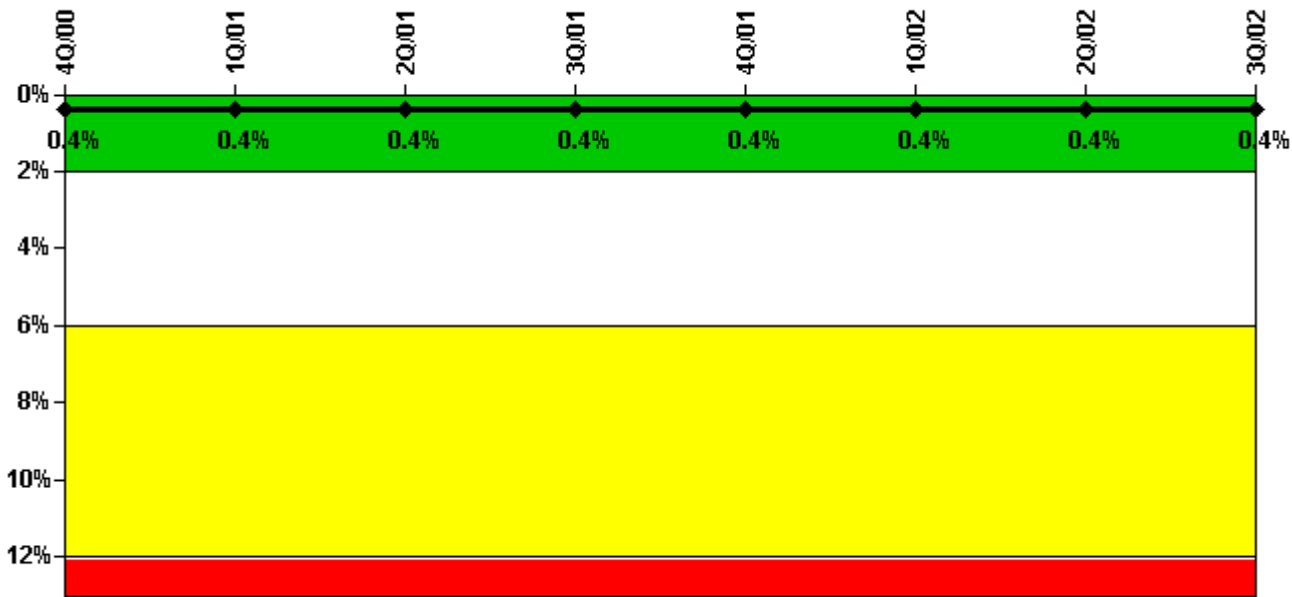
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	14.52	16.59	0.27	0	0	10.93	0	6.06
Unplanned unavailable hours	0	0	0	0	0	8.72	0	0
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	2146.67	1154.80	0	0	1851.33	2183.00	2208.00
Train 2								
Planned unavailable hours	10.27	3.72	0	0	0	12.58	23.08	0.37
Unplanned unavailable hours	0.27	0	0	0	0	0	0	0
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	2146.67	1154.80	0	0	1851.33	2183.00	2208.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.5%	0.5%	0.5%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



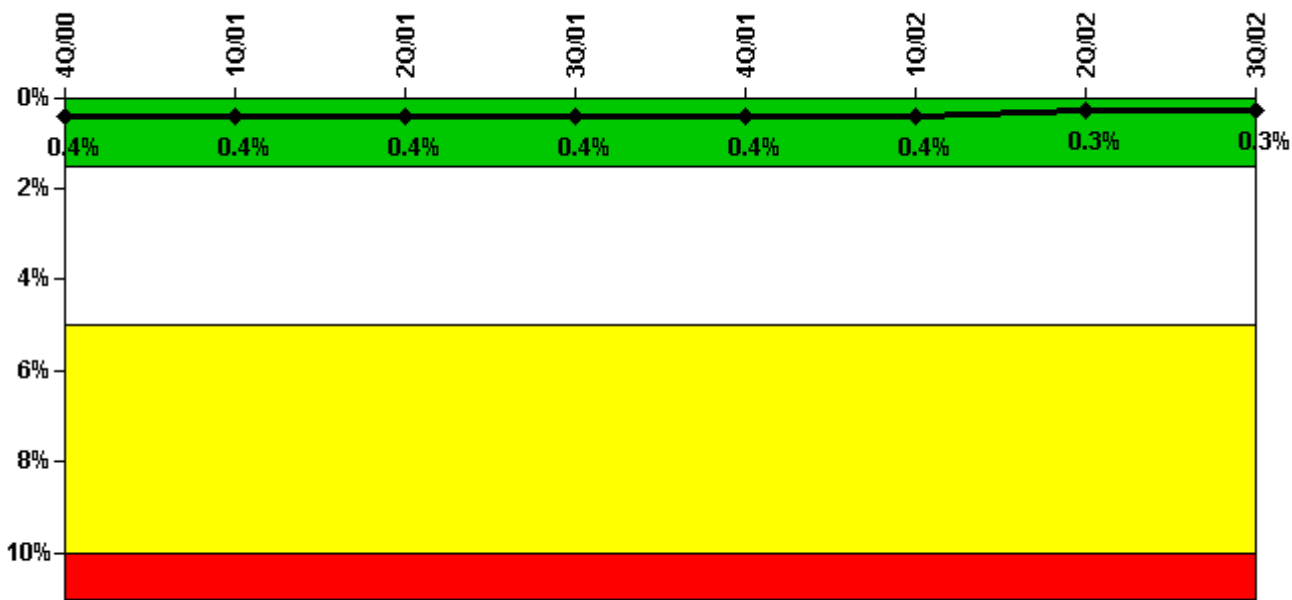
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	36.22	22.06	0.73	0	0	4.40	2.48	6.18
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2146.67	1154.80	0	0	1851.33	2183.00	2208.00
Train 2								
Planned unavailable hours	5.64	8.90	0	0	0	1.22	3.55	6.18
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2146.67	1072.40	0	0	1768.40	2183.00	2208.00
Train 3								
Planned unavailable hours	0.77	9.84	0	0	0	1.08	0.73	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	2209.00	2146.67	1154.80	0	0	1851.33	2183.00	2208.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



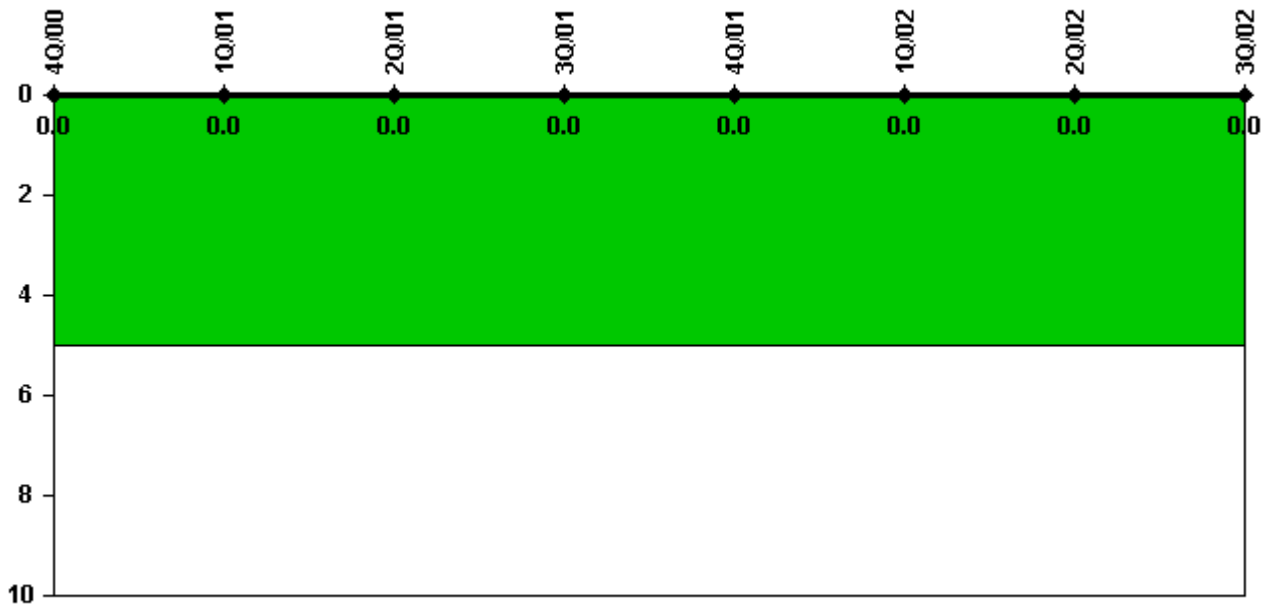
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	3.49	1.14	0.83	0	0	2.30	0.92	1.01
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2146.67	1154.80	0	0	1851.33	2183.00	2208.00
Train 2								
Planned unavailable hours	3.67	1.17	0	0	0	0	0.66	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	2146.67	1154.80	0	0	1851.33	2183.00	2208.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	900.70	2208.00	2209.00	302.12	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	789.90	2208.00	2209.00	302.12	0	0
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.3%	0.3%

Licensee Comments: none

Safety System Functional Failures (PWR)



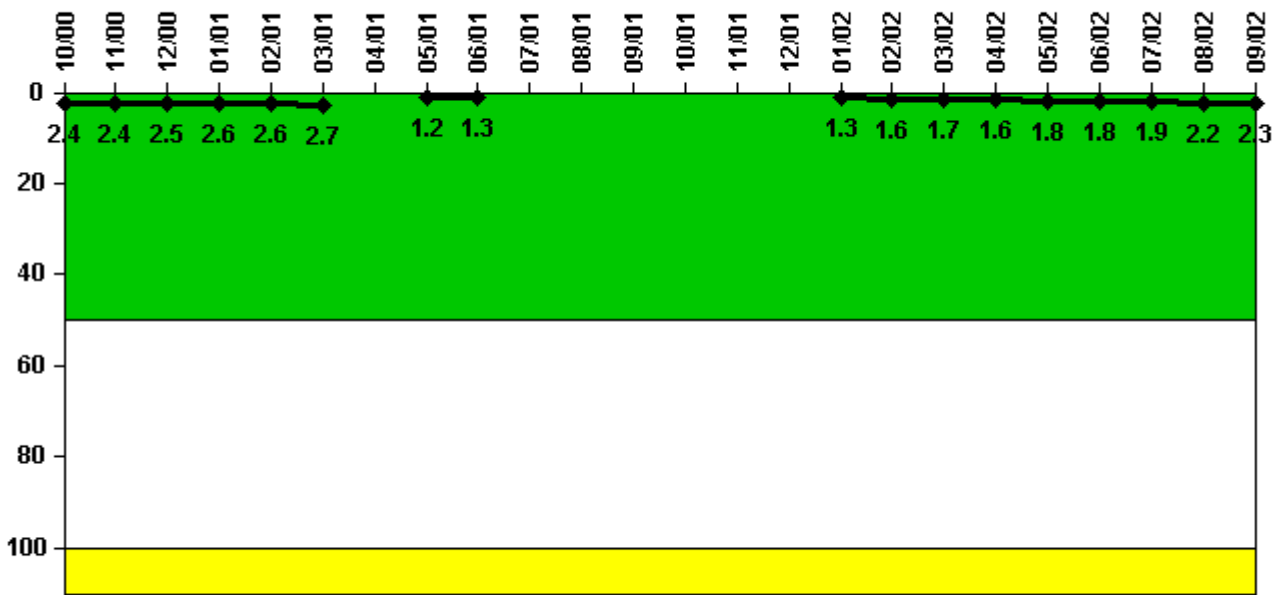
Thresholds: White > 5.0

Notes

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

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

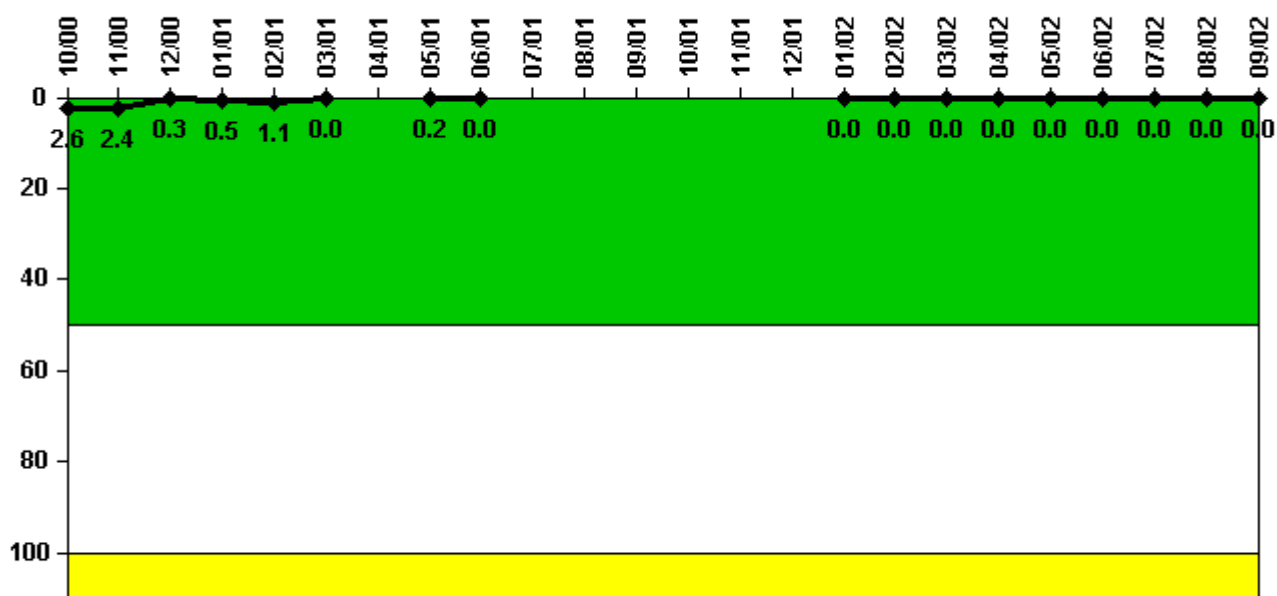
Notes

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum activity	0.024000	0.024300	0.024800	0.026300	0.025600	0.026500	N/A	0.012300	0.013000	N/A	N/A	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	N/A	1.0	1.0	1.0	1.0	1.0
Indicator value	2.4	2.4	2.5	2.6	2.6	2.7	N/A	1.2	1.3	N/A	N/A	N/A

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	N/A	N/A	N/A	0.013300	0.016400	0.017300	0.016300	0.018100	0.018100	0.019300	0.021700	0.022700
Technical specification limit	1.0	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	N/A	1.3	1.6	1.7	1.6	1.8	1.8	1.9	2.2	2.3

Licensee Comments: none

Reactor Coolant System Leakage



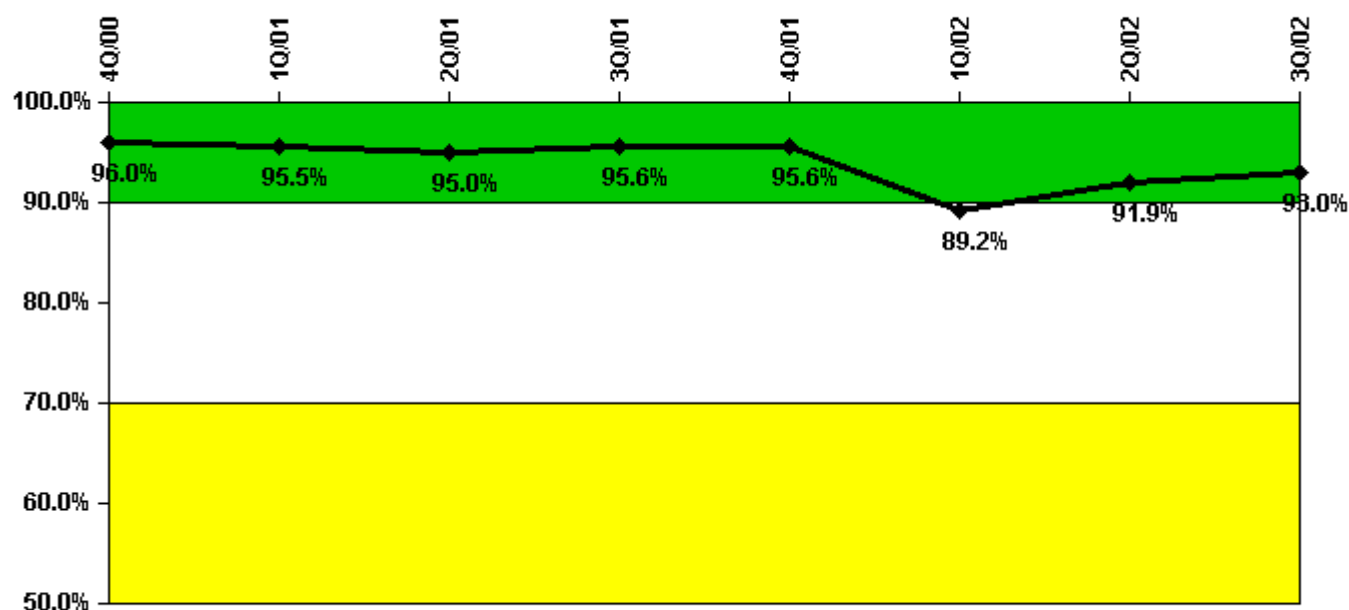
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum leakage	0.261	0.241	0.030	0.047	0.112	0	N/A	0.015	0.003	N/A	N/A	N/A
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	N/A	10.0	10.0	10.0	10.0	10.0
Indicator value	2.6	2.4	0.3	0.5	1.1	0	N/A	0.2	0	N/A	N/A	N/A
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	N/A	N/A	N/A	0.003	0	0	0.002	0	0.002	0.002	0.002	0.001
Technical specification limit	10.0	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	N/A	N/A	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

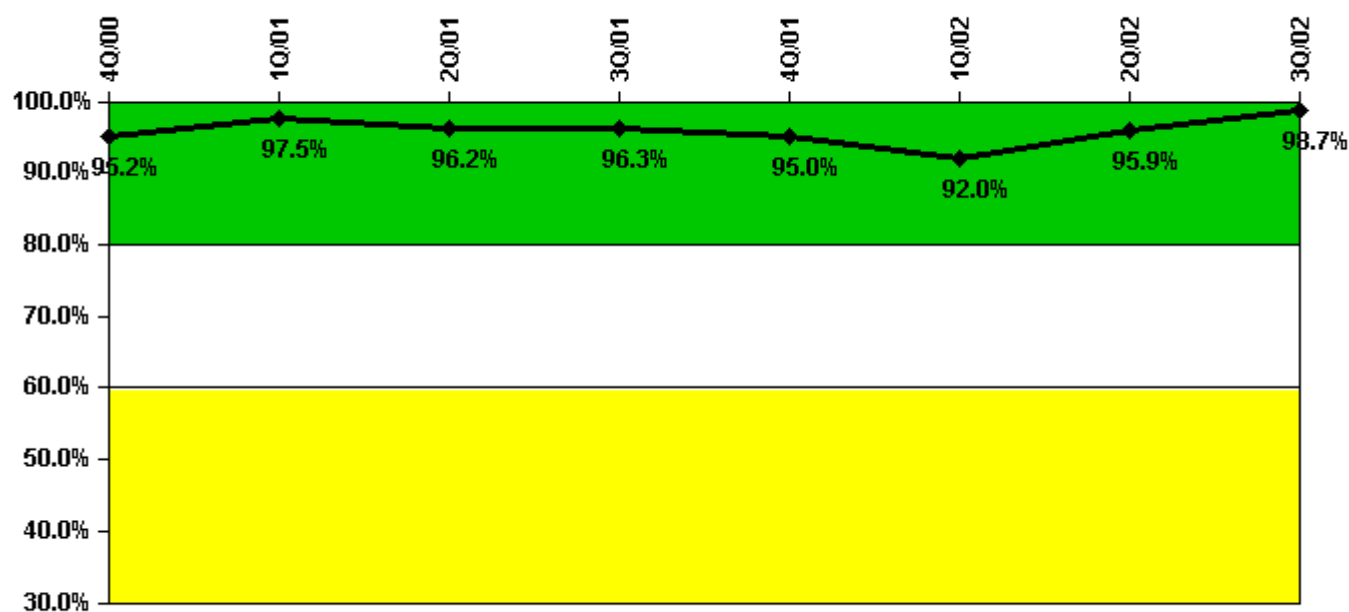
Notes

Drill/Exercise Performance	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful opportunities	10.0	13.0	0	2.0	0	15.0	69.0	11.0
Total opportunities	10.0	14.0	0	2.0	0	20.0	72.0	11.0
Indicator value	96.0%	95.5%	95.0%	95.6%	95.6%	89.2%	91.9%	93.0%

Licensee Comments:

1Q/02: Changed the number of drill, exercises, and actual event opportunities from 17 to 15 as a result of assessing operator simulator scenario off site notification forms. Two forms were discovered that were not checked either "this is a drill" or "this is not a drill." Errors in the notification forms were discovered and documented in NRC Inspection Report 50-255/02-06(DRS) and were evaluated internally via C-PAL-02-02177.

ERO Drill Participation



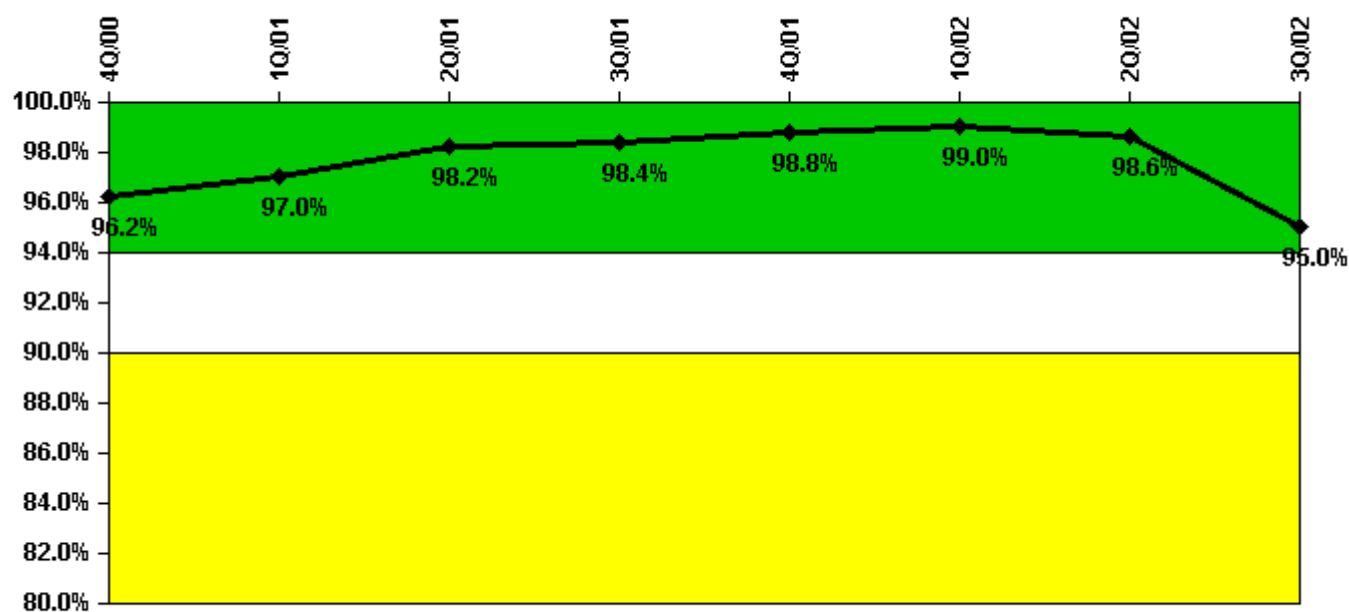
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Participating Key personnel	79.0	78.0	76.0	77.0	76.0	69.0	71.0	74.0
Total Key personnel	83.0	80.0	79.0	80.0	80.0	75.0	74.0	75.0
Indicator value	95.2%	97.5%	96.2%	96.3%	95.0%	92.0%	95.9%	98.7%

Licensee Comments: none

Alert & Notification System



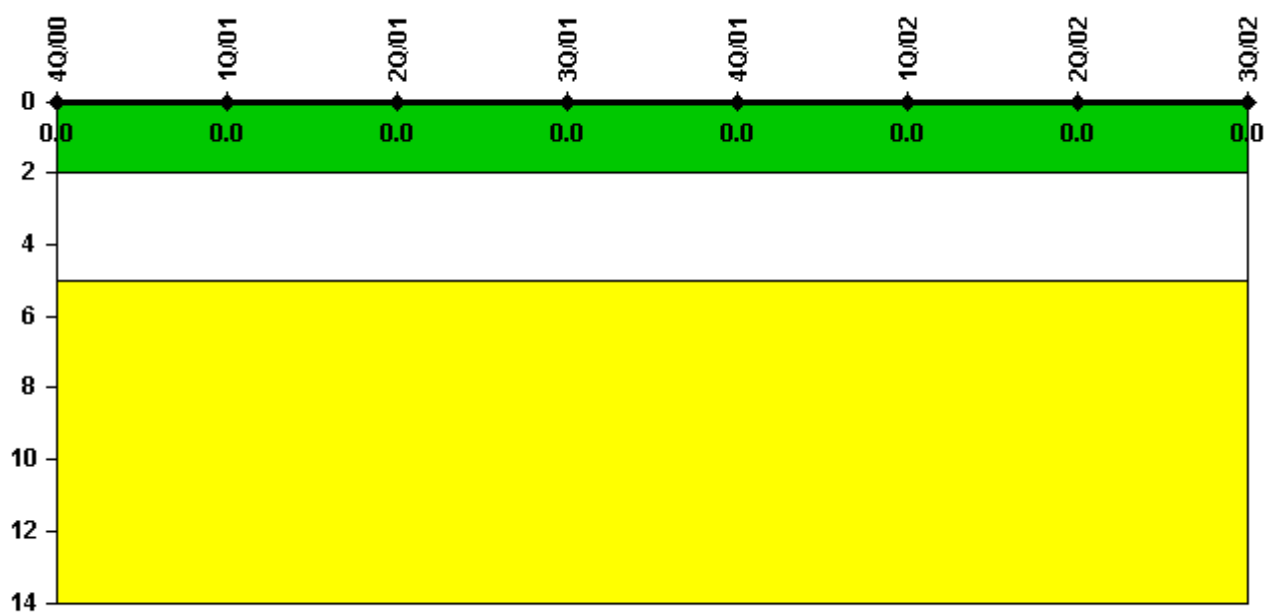
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful siren-tests	246	249	251	246	250	251	247	210
Total sirens-tests	252	252	252	252	252	252	252	252
Indicator value	96.2%	97.0%	98.2%	98.4%	98.8%	99.0%	98.6%	95.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness

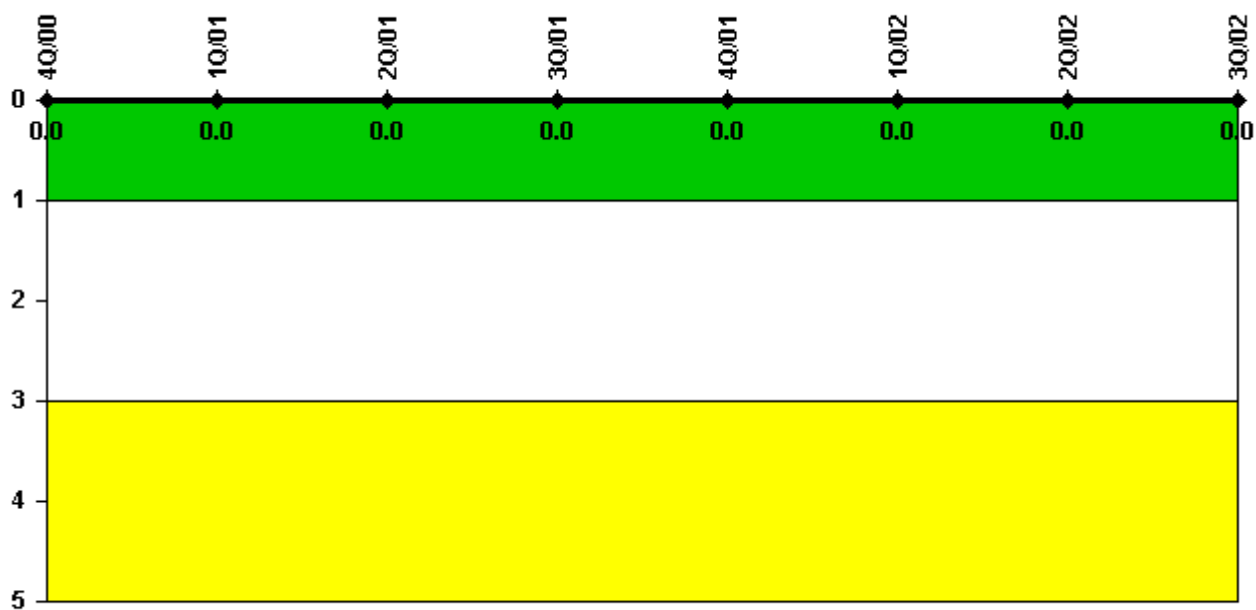


Thresholds: White > 2.0 Yellow > 5.0

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

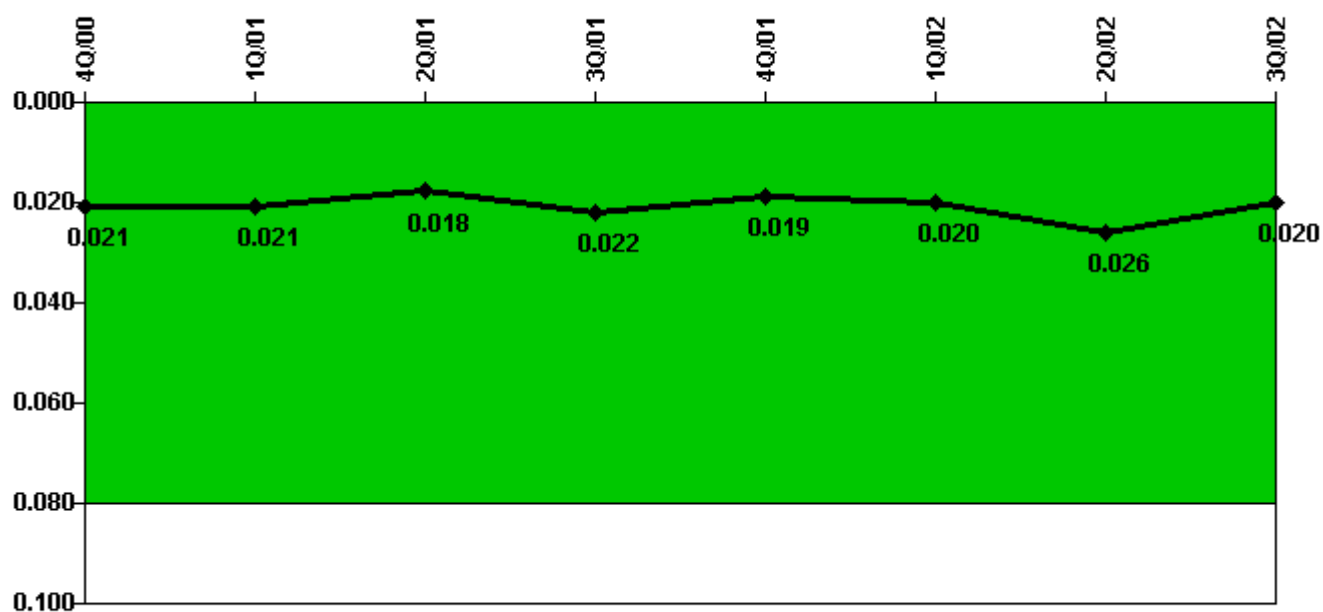
Thresholds: White > 1.0 Yellow > 3.0

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



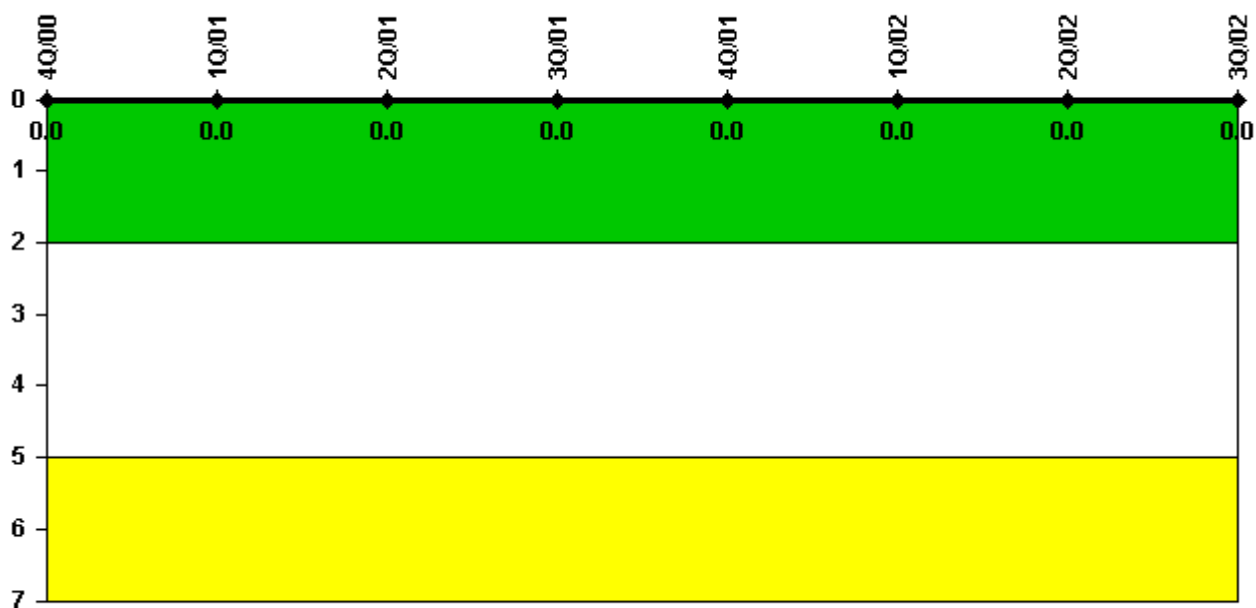
Thresholds: White > 0.080

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	196.99	64.37	126.28	163.03	136.99	74.69	279.20	22.20
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
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	0.018	0.022	0.019	0.020	0.026	0.020

Licensee Comments: none

Personnel Screening Program



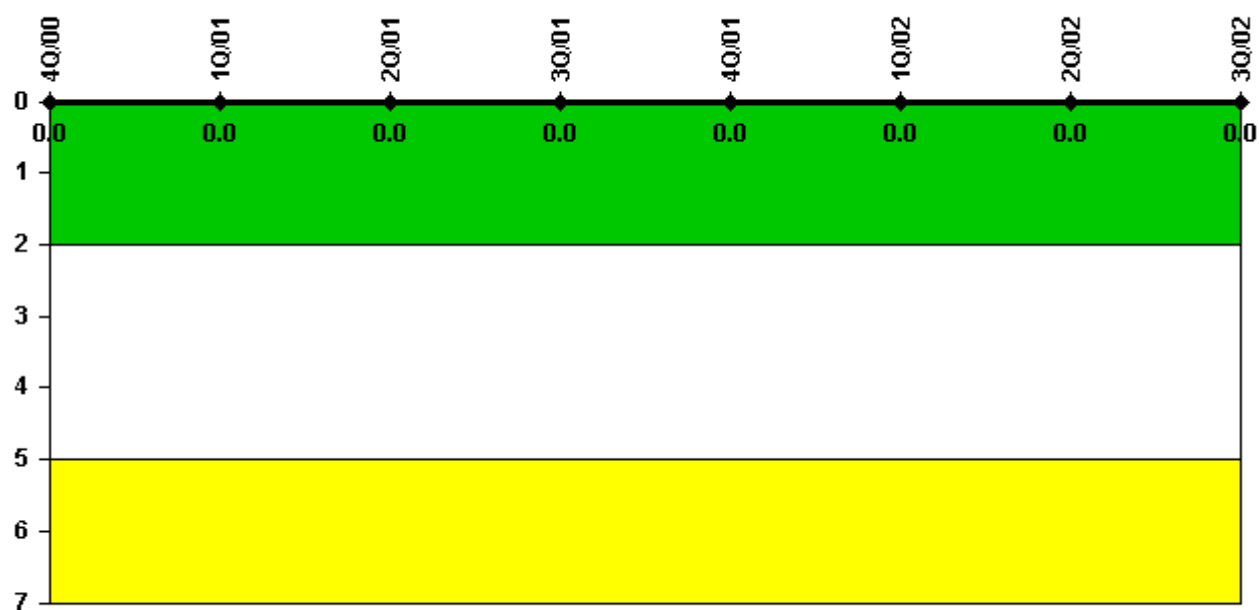
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

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

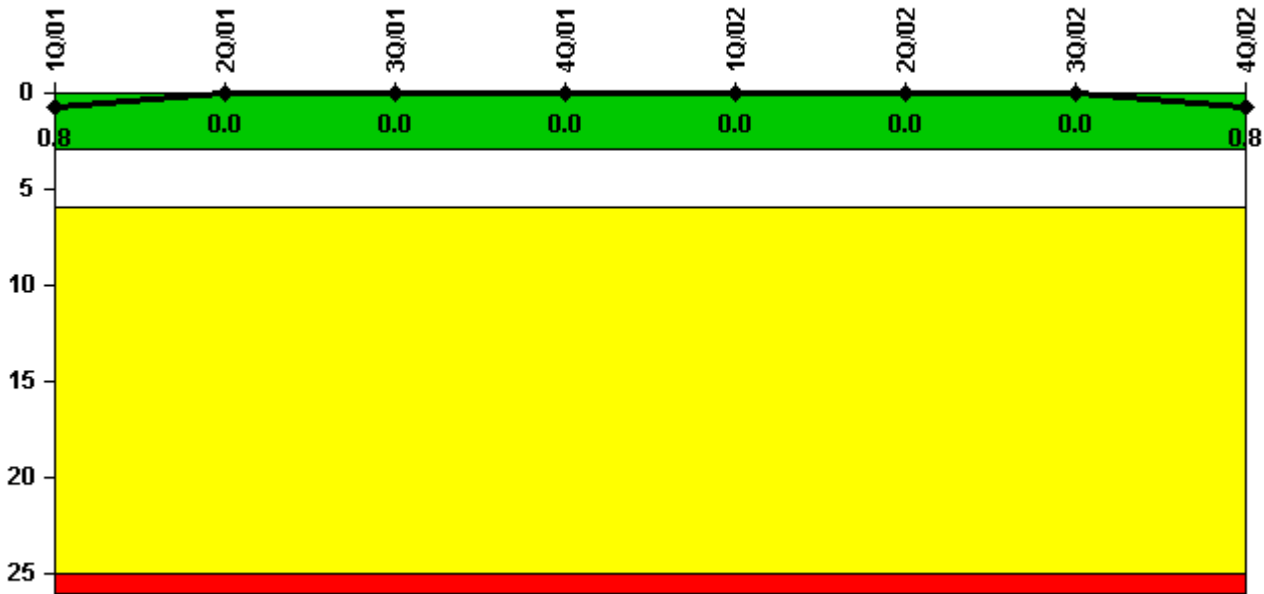
Last Modified: October 22, 2002

Palisades

4Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



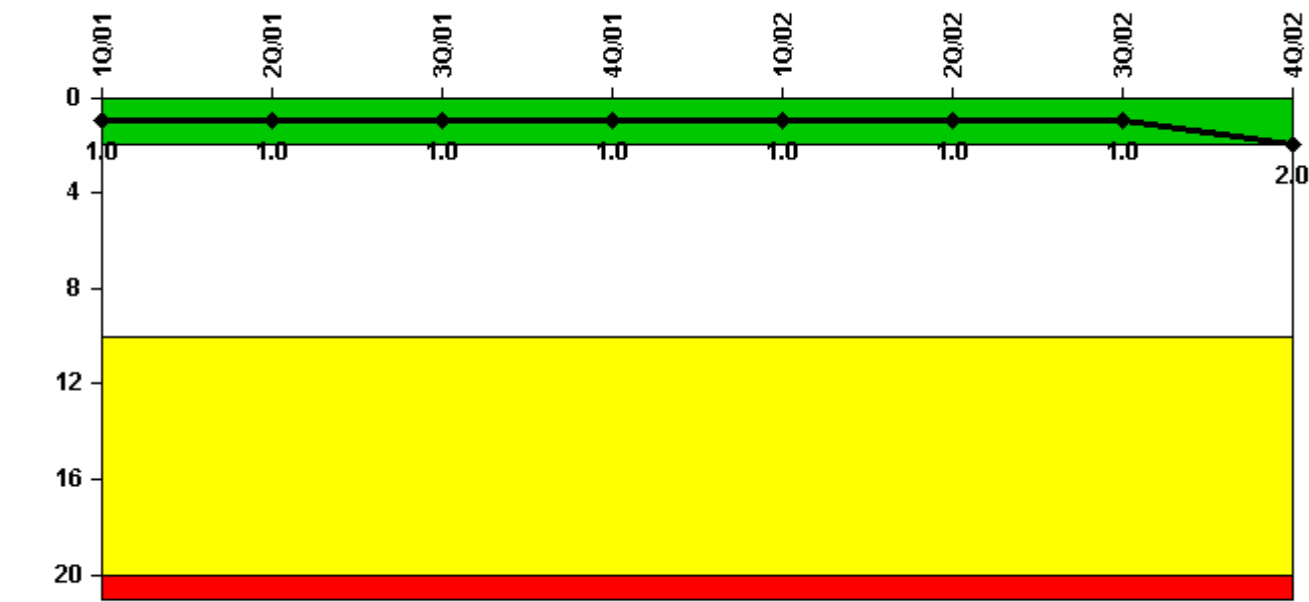
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	2133.8	1050.3	0	0	1768.4	2183.0	2208.0	2142.1
Indicator value	0.8	0	0	0	0	0	0	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



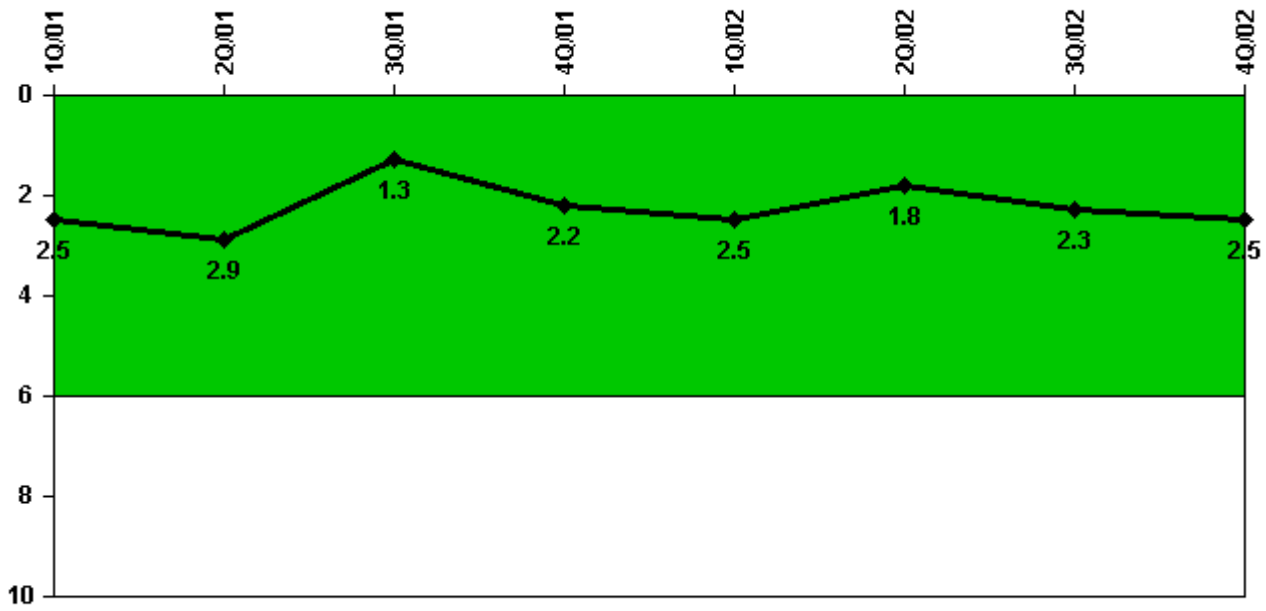
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



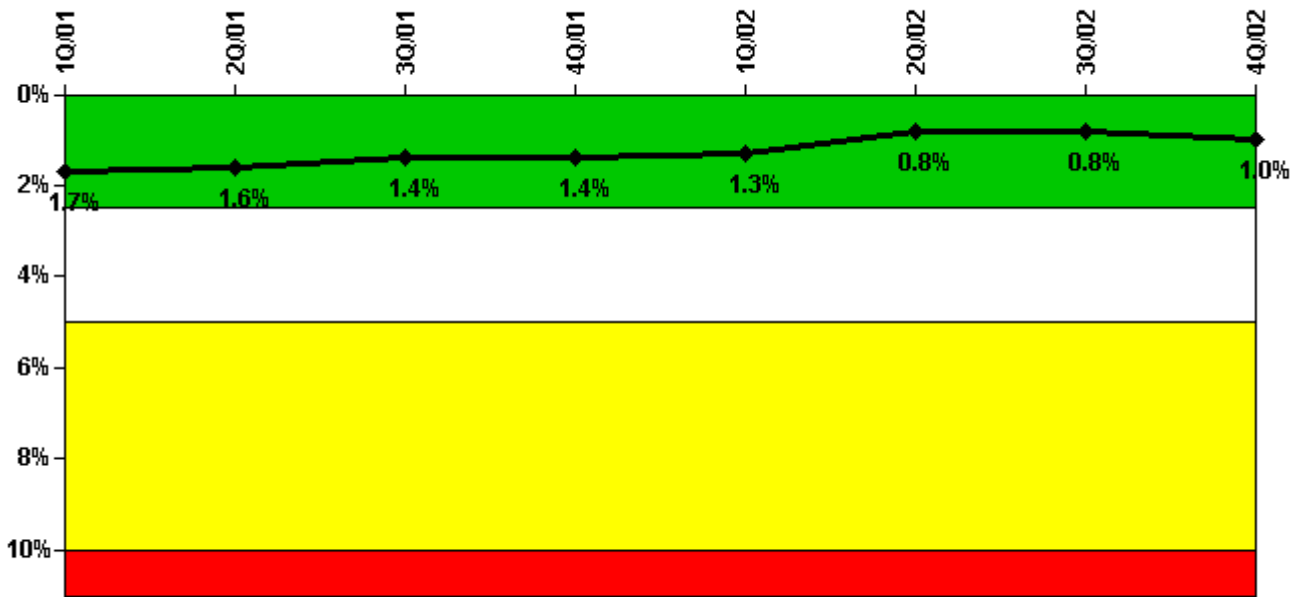
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned power changes	0	1.0	0	0	0	1.0	1.0	1.0
Critical hours	2133.8	1050.3	0	0	1768.4	2183.0	2208.0	2142.1
Indicator value	2.5	2.9	1.3	2.2	2.5	1.8	2.3	2.5

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



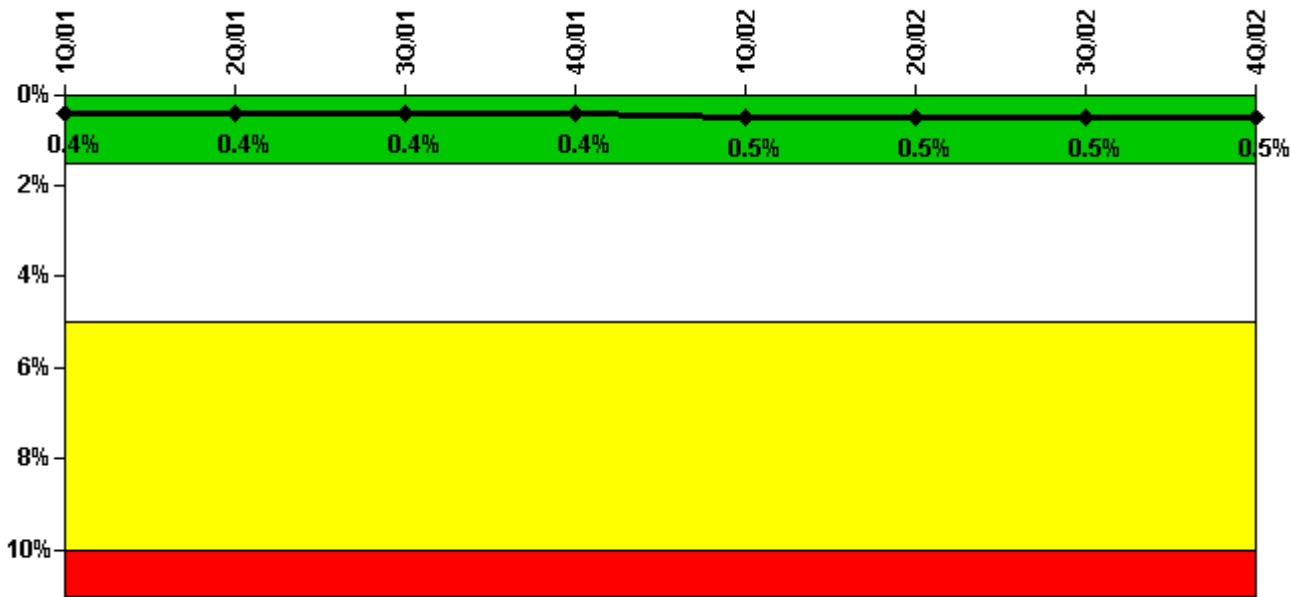
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	19.62	0.67	0	0	0.57	47.22	3.75	64.58
Unplanned unavailable hours	0	0	0	0	0	0	5.72	5.07
Fault exposure hours	0	0	0	0	0	0	4.57	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	2.20	0.28	0	0	0.99	0.57	3.23	84.63
Unplanned unavailable hours	0	0	0	0	6.18	0	32.32	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	1.7%	1.6%	1.4%	1.4%	1.3%	0.8%	0.8%	1.0%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



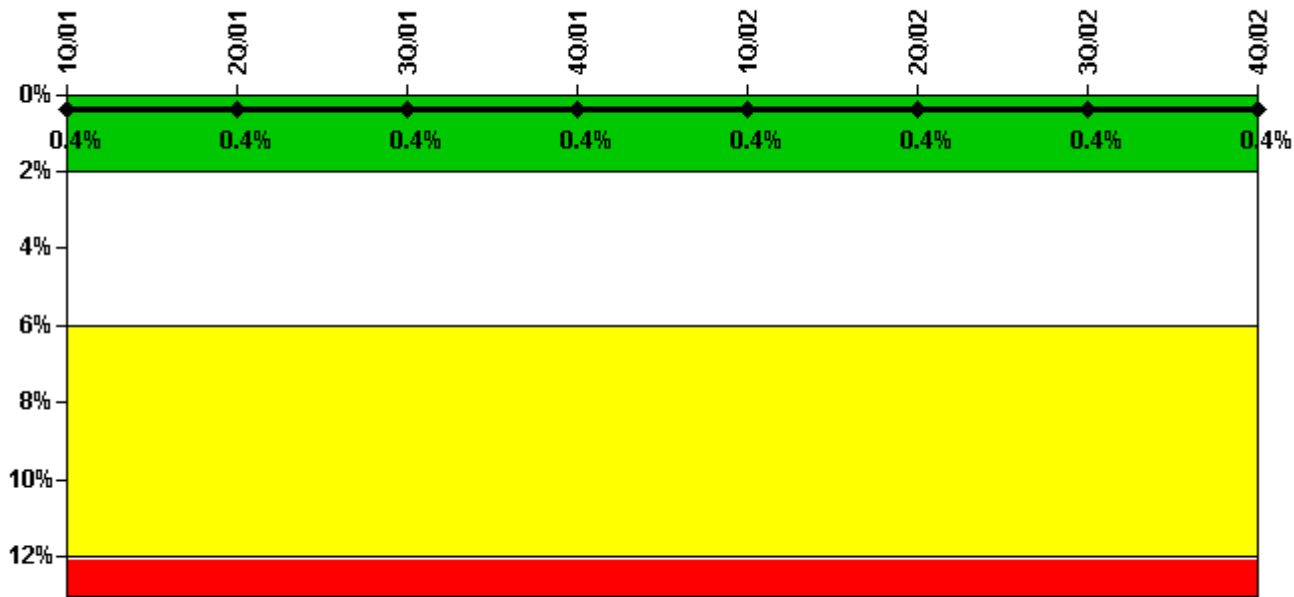
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	16.59	0.27	0	0	10.93	0	6.06	0.68
Unplanned unavailable hours	0	0	0	0	8.72	0	0	9.82
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2146.67	1154.80	0	0	1851.33	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	3.72	0	0	0	12.58	23.08	0.37	4.22
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2146.67	1154.80	0	0	1851.33	2183.00	2208.00	2209.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.5%	0.5%	0.5%	0.5%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



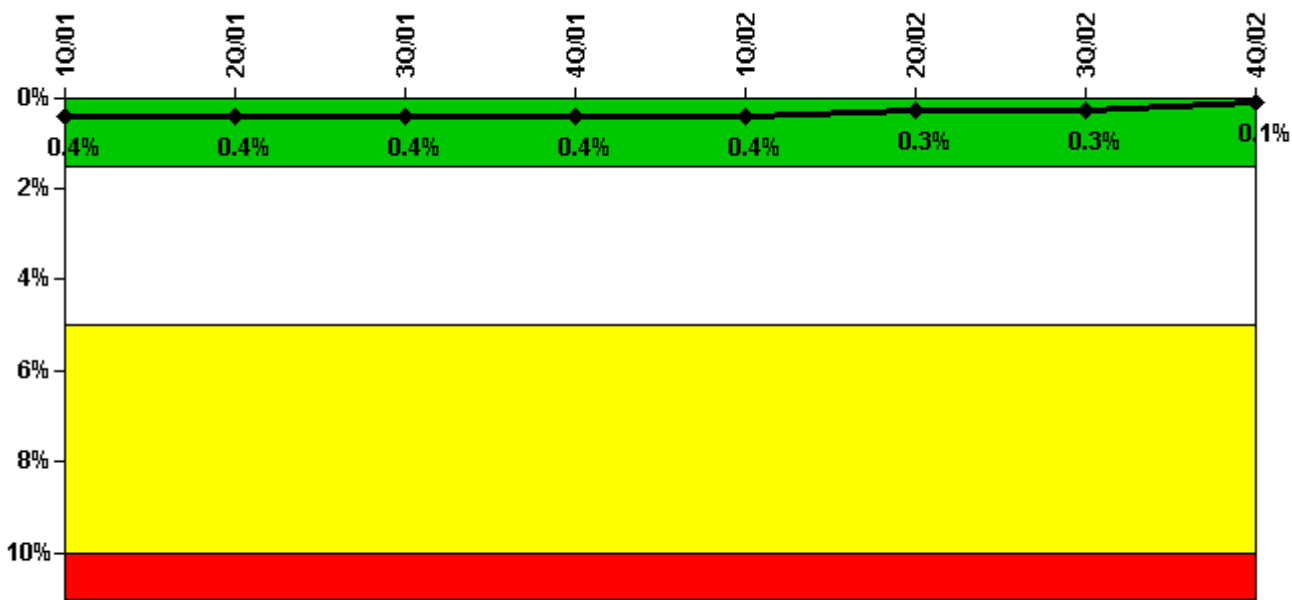
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	22.06	0.73	0	0	4.40	2.48	6.18	5.38
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	2146.67	1154.80	0	0	1851.33	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	8.90	0	0	0	1.22	3.55	6.18	2.06
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2146.67	1072.40	0	0	1768.40	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	9.84	0	0	0	1.08	0.73	9.30	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	2146.67	1154.80	0	0	1851.33	2183.00	2208.00	2209.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

Notes

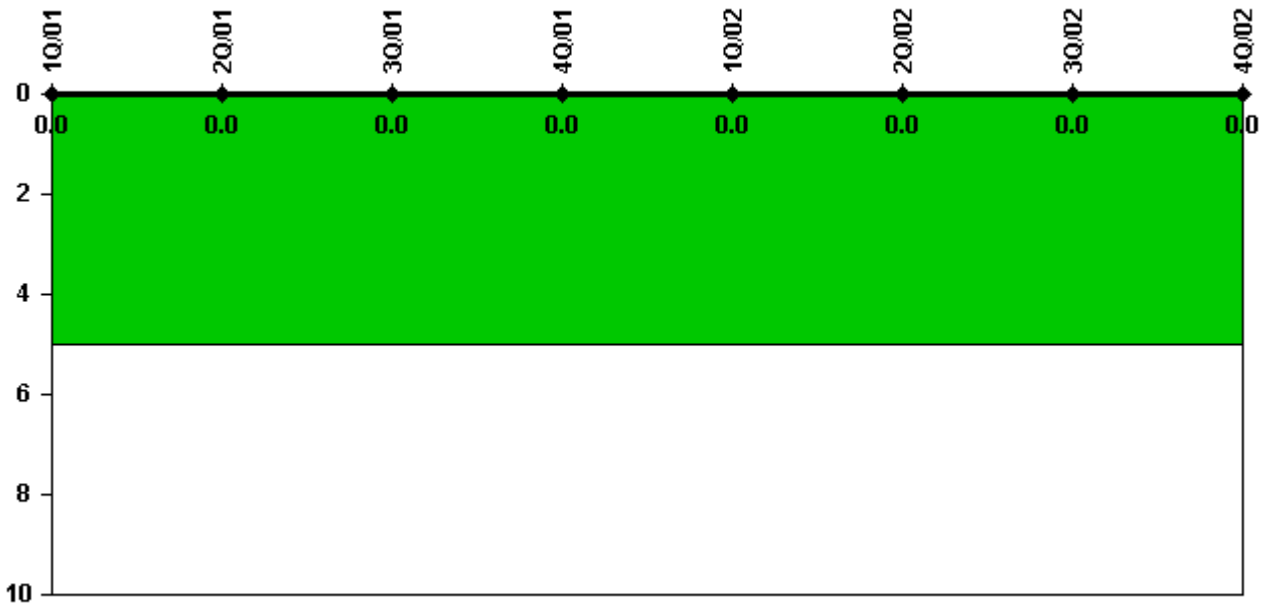
Safety System Unavailability, Residual Heat Removal System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	1.14	0.83	0	0	2.30	0.92	1.01	8.20
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2146.67	1154.80	0	0	1851.33	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	1.17	0	0	0	0	0.66	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	2146.67	1154.80	0	0	1851.33	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	1.82	1.00	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	900.70	2208.00	2209.00	302.12	0	0	0
Train 4								
Planned unavailable hours	0	0	1.13	1.20	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	0	789.90	2208.00	2209.00	302.12	0	0	0
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.3%	0.3%	0.1%

Licensee Comments:

4Q/01: Revised Train 3 and 4 Planned unavailability hours based on review and clarification of requirements.

3Q/01: Revised Train 3 and Train 4 Planned Unavailability hours based on review of records and clarification of requirements

Safety System Functional Failures (PWR)



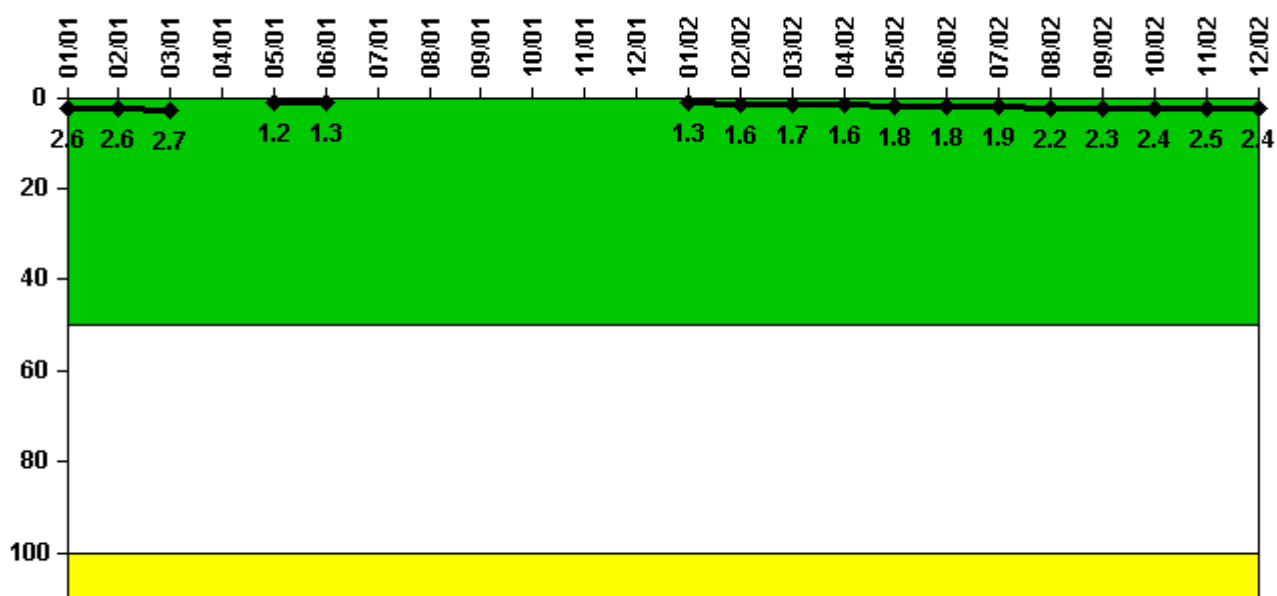
Thresholds: White > 5.0

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

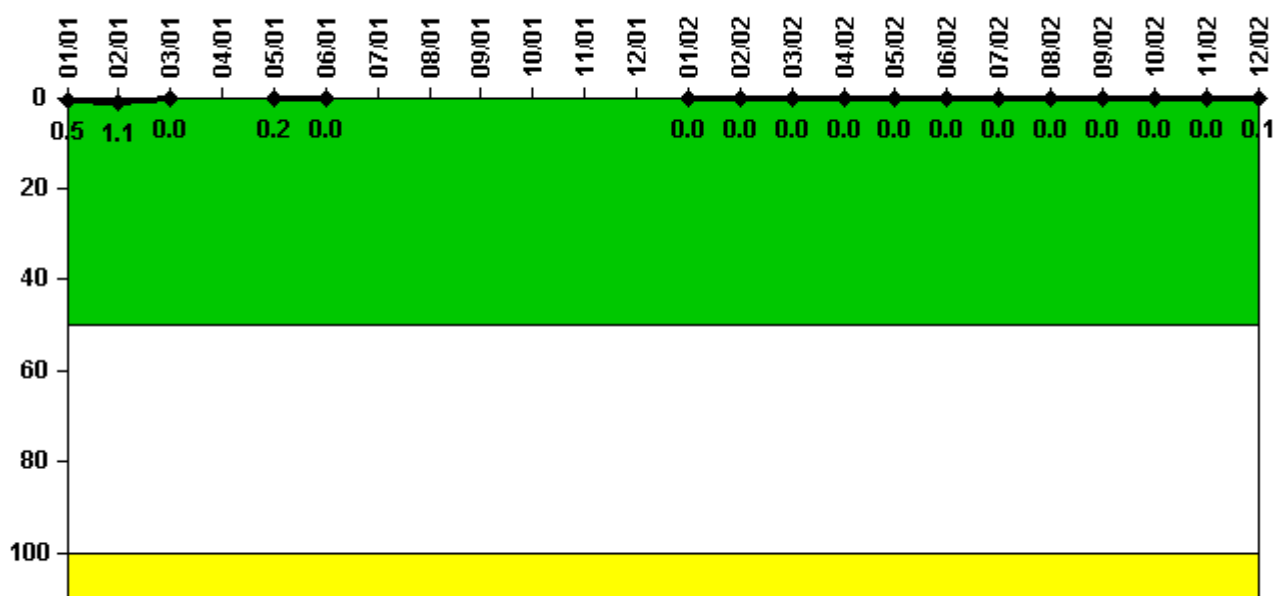
Notes

Reactor Coolant System Activity	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum activity	0.026300	0.025600	0.026500	N/A	0.012300	0.013000	N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit	1.0	1.0	1.0	N/A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	2.6	2.6	2.7	N/A	1.2	1.3	N/A	N/A	N/A	N/A	N/A	N/A

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	0.013300	0.016400	0.017300	0.016300	0.018100	0.018100	0.019300	0.021700	0.022700	0.023500	0.024700	0.024400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.3	1.6	1.7	1.6	1.8	1.8	1.9	2.2	2.3	2.4	2.5	2.4

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

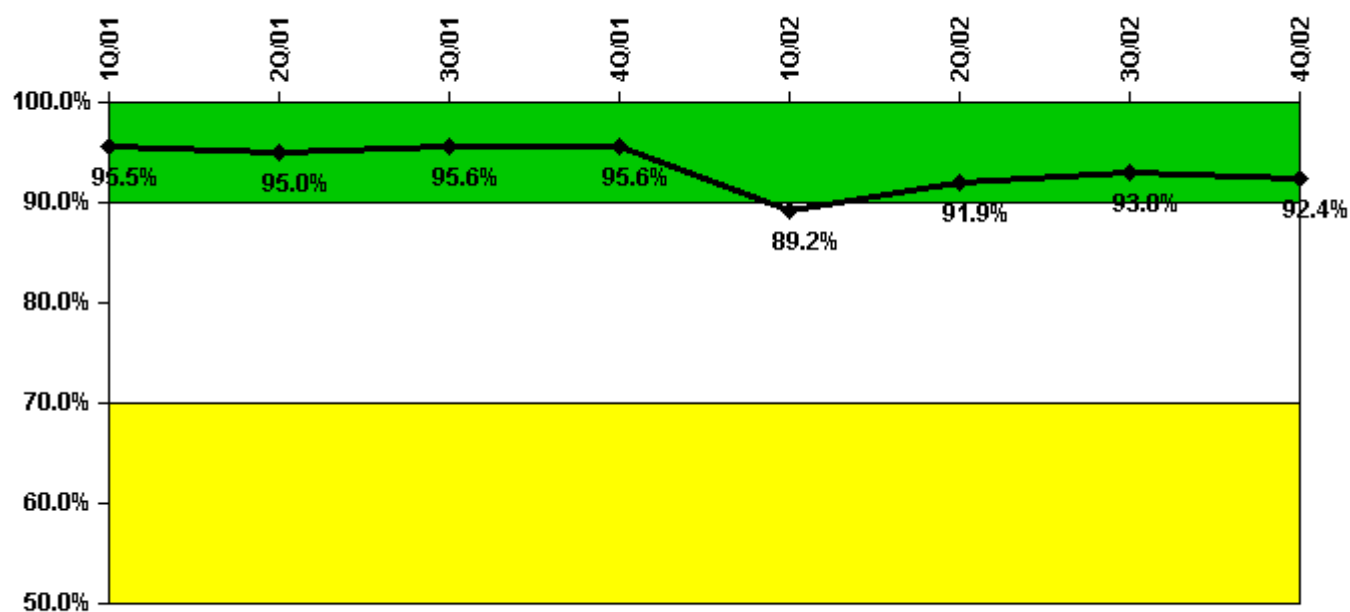
Reactor Coolant System Leakage	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum leakage	0.047	0.112	0	N/A	0.015	0.003	N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit	10.0	10.0	10.0	N/A	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.5	1.1	0	N/A	0.2	0	N/A	N/A	N/A	N/A	N/A	N/A

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	0.003	0	0	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.005
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0.1

Licensee Comments:

6/02: Revised May 2002 data as a result of review and discovery of an error.

Drill/Exercise Performance



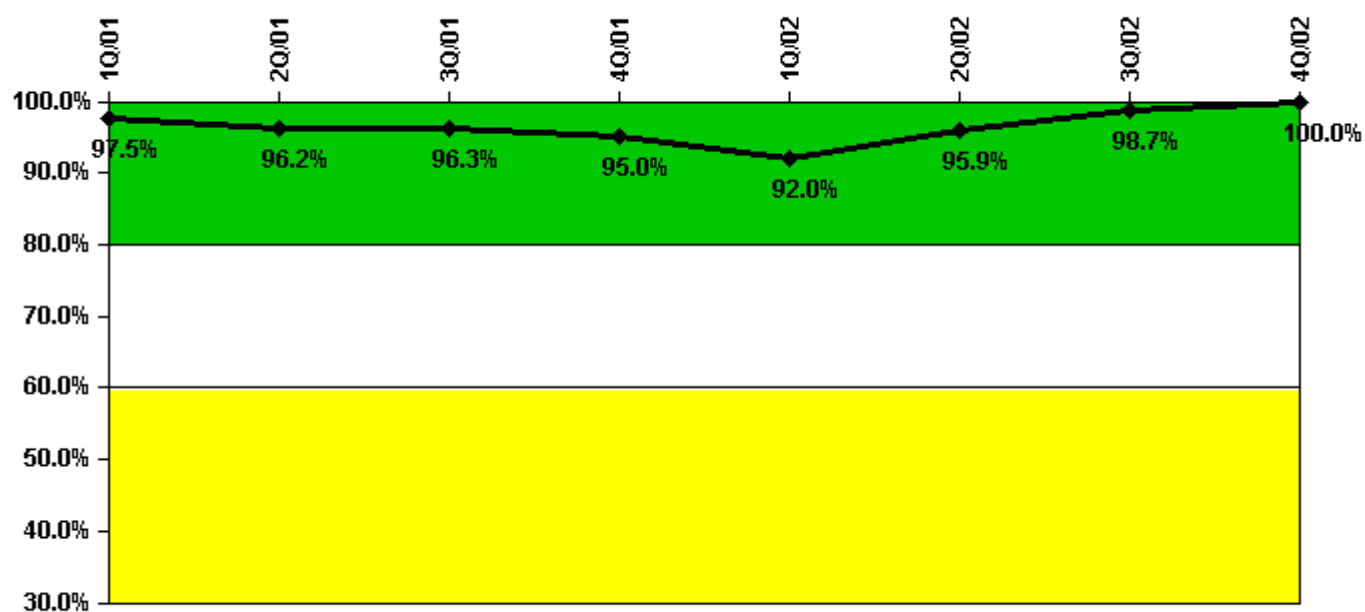
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful opportunities	13.0	0	2.0	0	15.0	69.0	11.0	24.0
Total opportunities	14.0	0	2.0	0	20.0	72.0	11.0	26.0
Indicator value	95.5%	95.0%	95.6%	95.6%	89.2%	91.9%	93.0%	92.4%

Licensee Comments: none

ERO Drill Participation



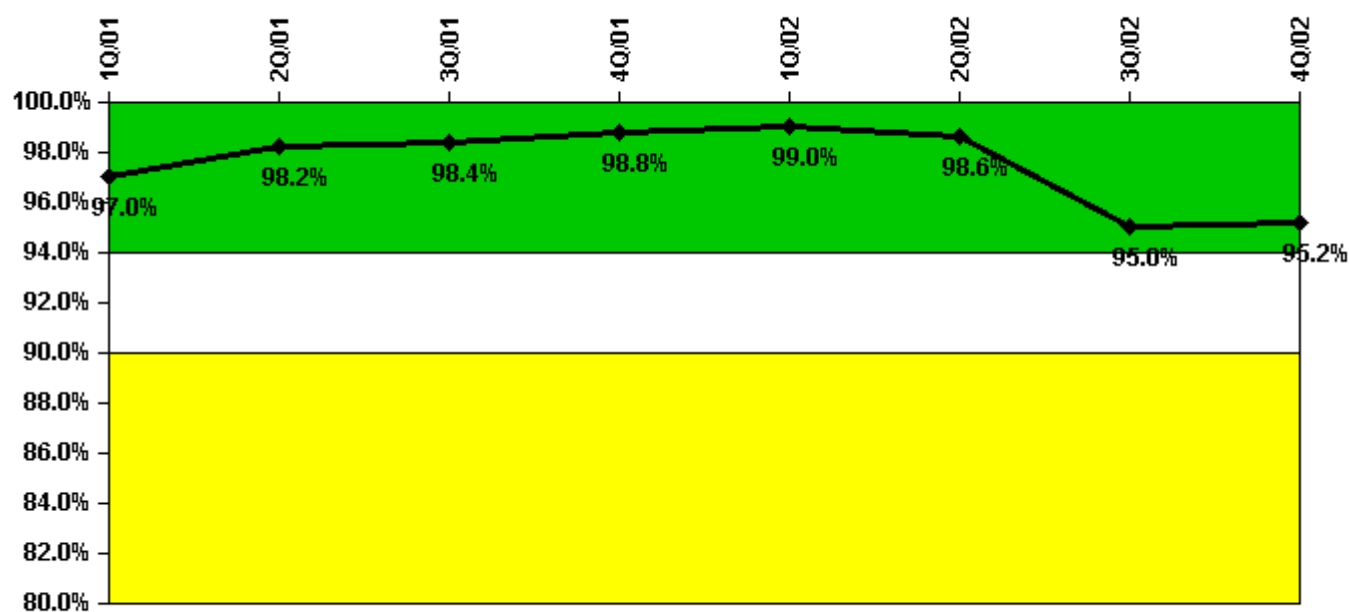
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Participating Key personnel	78.0	76.0	77.0	76.0	69.0	71.0	74.0	76.0
Total Key personnel	80.0	79.0	80.0	80.0	75.0	74.0	75.0	76.0
Indicator value	97.5%	96.2%	96.3%	95.0%	92.0%	95.9%	98.7%	100.0%

Licensee Comments: none

Alert & Notification System



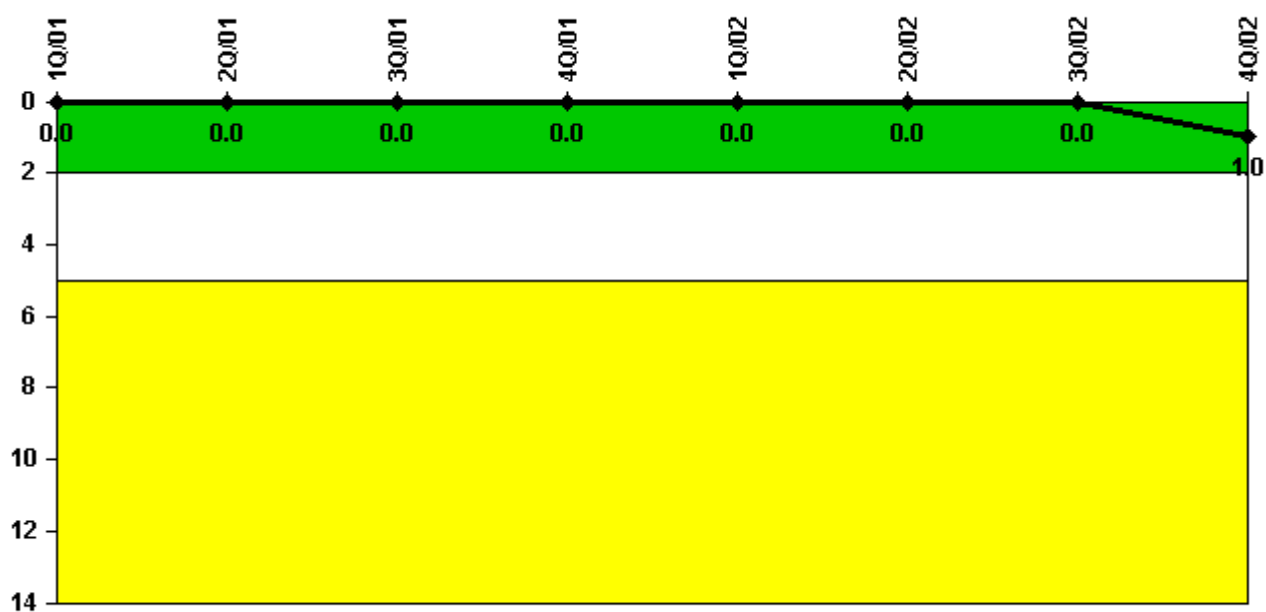
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful siren-tests	249	251	246	250	251	247	210	252
Total sirens-tests	252	252	252	252	252	252	252	252
Indicator value	97.0%	98.2%	98.4%	98.8%	99.0%	98.6%	95.0%	95.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness

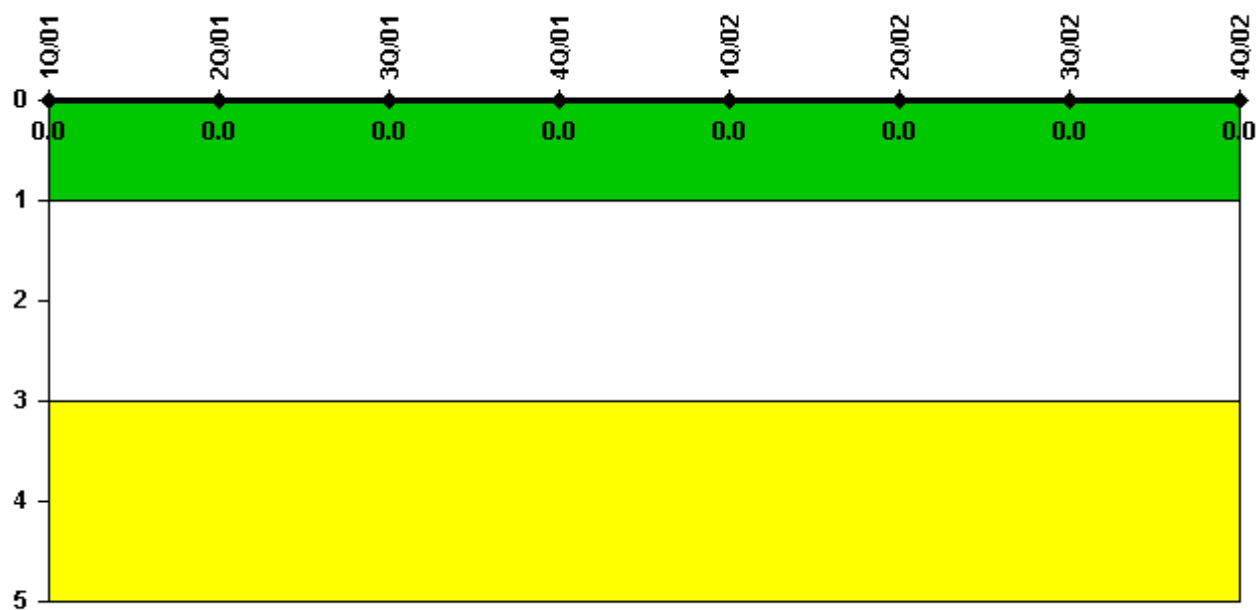


Thresholds: White > 2.0 Yellow > 5.0

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	1
Indicator value	0	0	0	0	0	0	0	1

Licensee Comments: none

RETS/ODCM Radiological Effluent

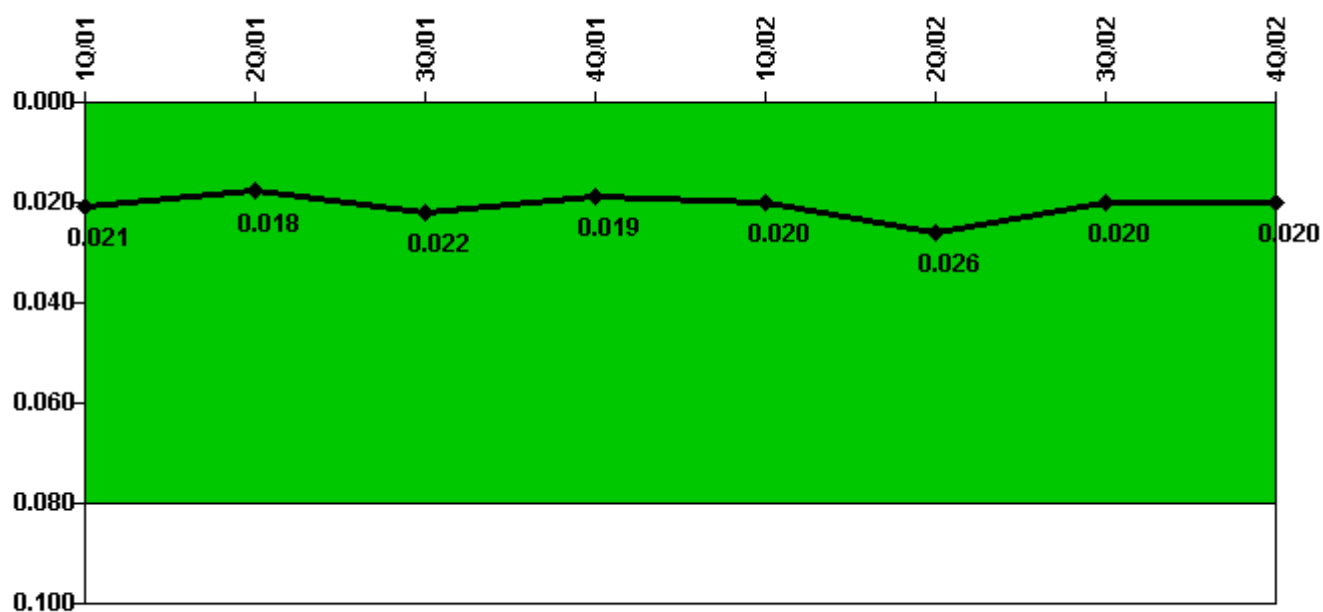
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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



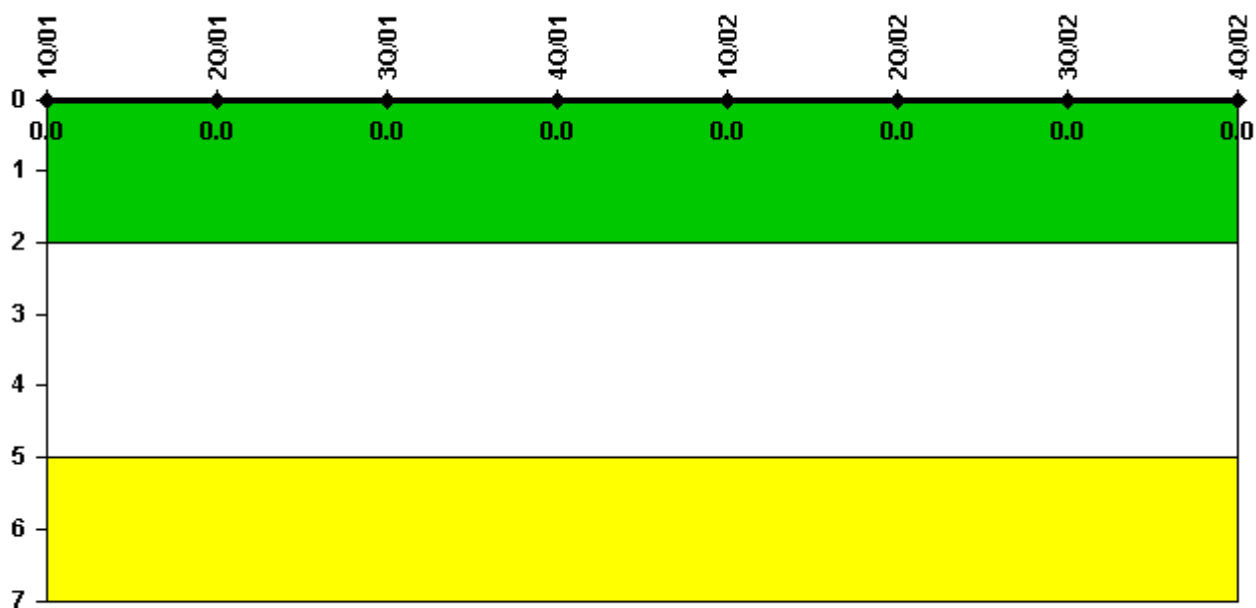
Thresholds: White > 0.080

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	64.37	126.28	163.03	136.99	74.69	279.20	22.20	137.42
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.021	0.018	0.022	0.019	0.020	0.026	0.020	0.020

Licensee Comments: none

Personnel Screening Program



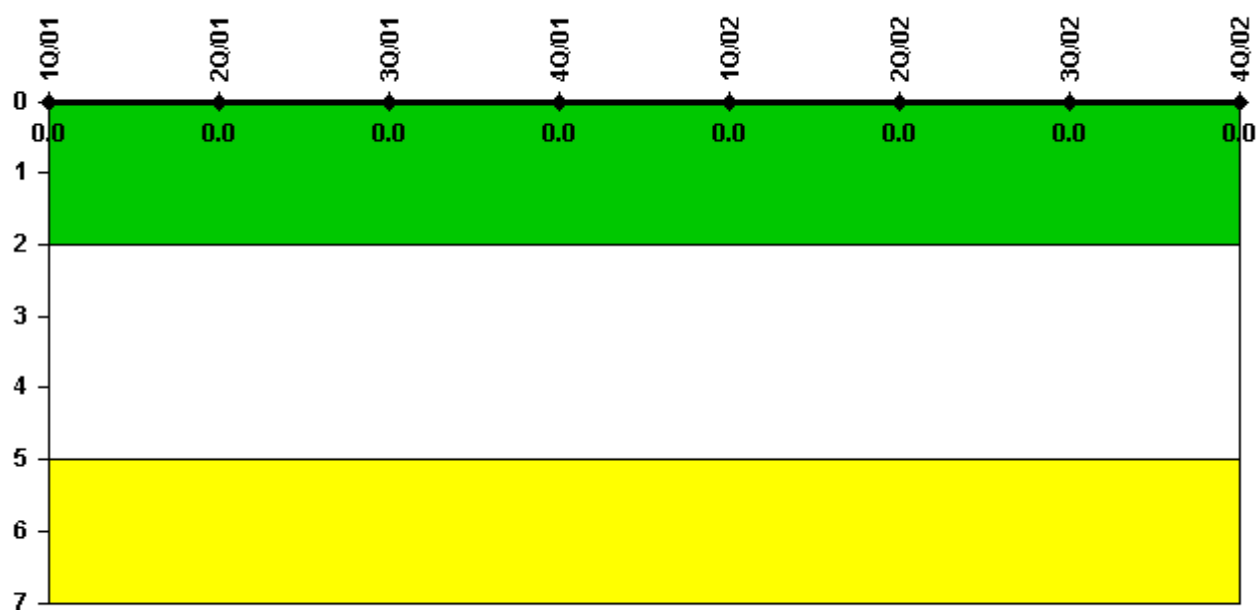
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

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

Last Modified: January 30, 2003

Palisades

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	0
Critical hours	1050.3	0	0	1768.4	2183.0	2208.0	2142.1	1782.4
Indicator value	0	0	0	0	0	0	0.8	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



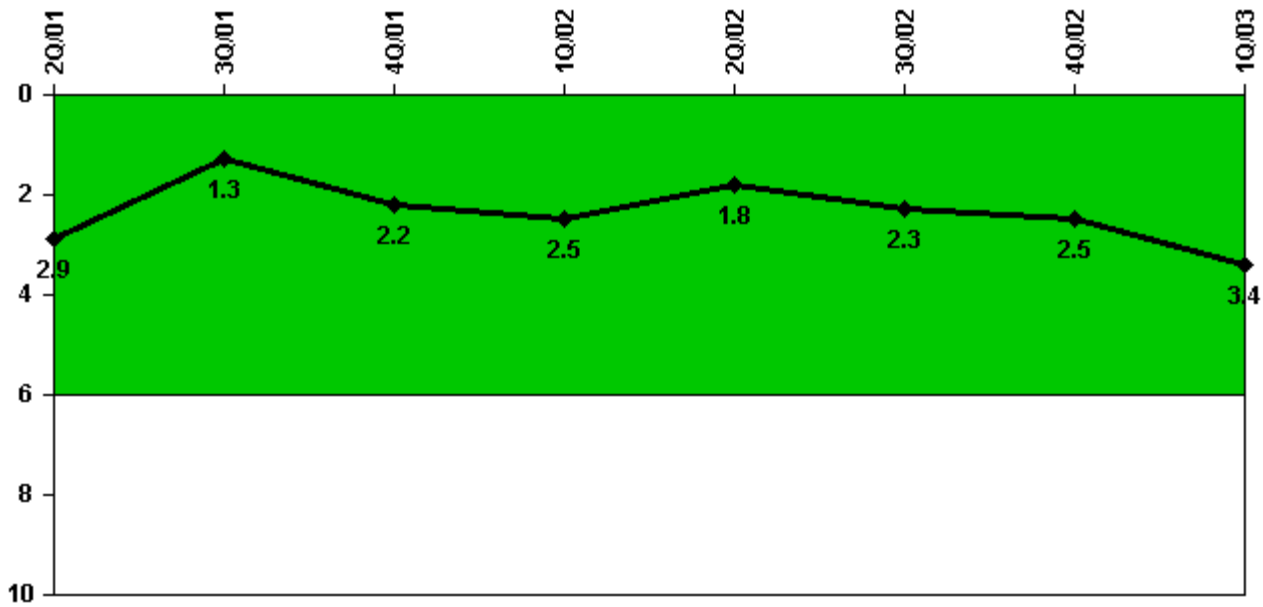
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Scrams	0	0	0	0	0	0	1.0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



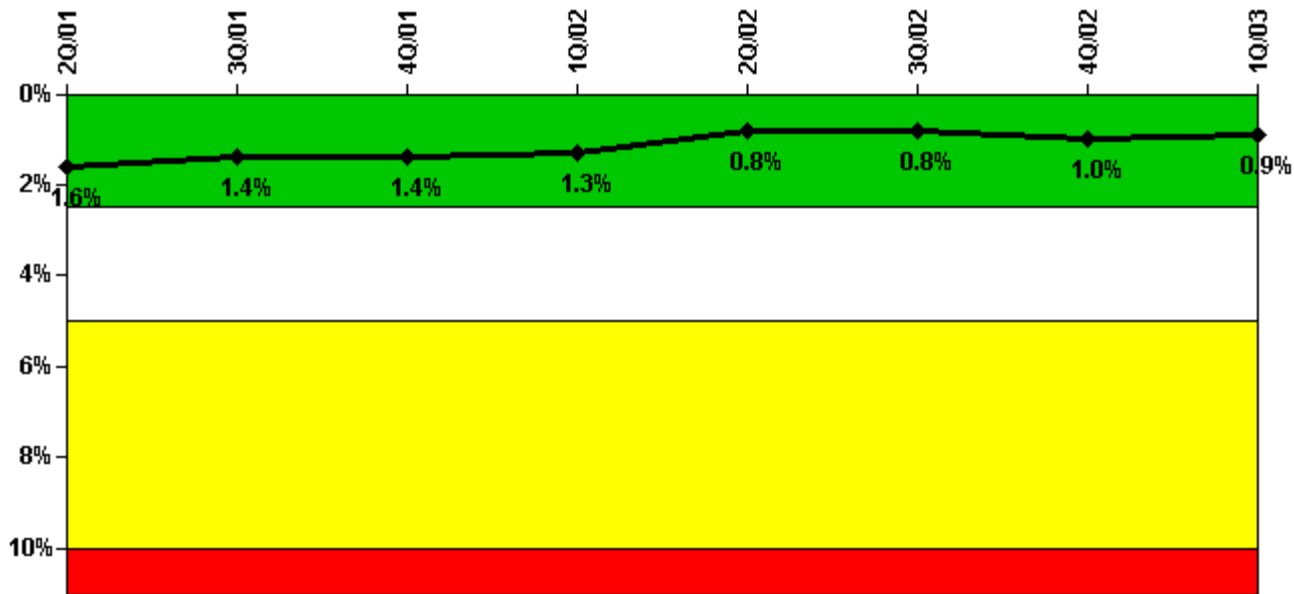
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned power changes	1.0	0	0	0	1.0	1.0	1.0	1.0
Critical hours	1050.3	0	0	1768.4	2183.0	2208.0	2142.1	1782.4
Indicator value	2.9	1.3	2.2	2.5	1.8	2.3	2.5	3.4

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



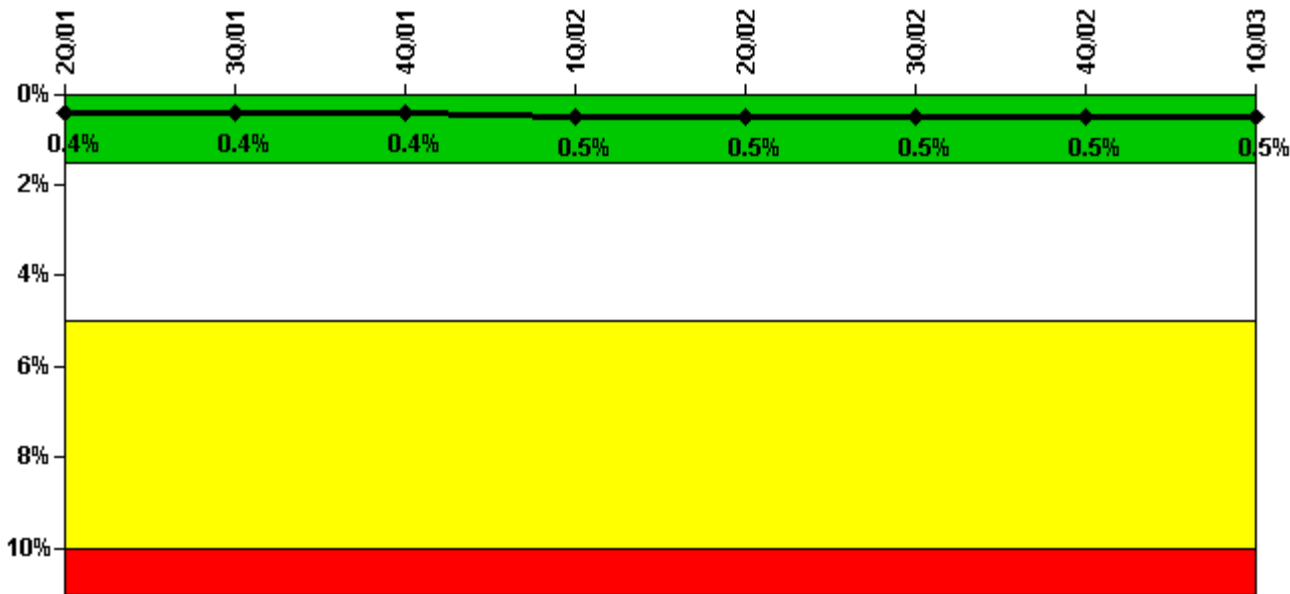
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0.67	0	0	0.57	47.22	3.75	64.58	12.13
Unplanned unavailable hours	0	0	0	0	0	5.72	5.07	0
Fault exposure hours	0	0	0	0	0	4.57	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	0.28	0	0	0.99	0.57	3.23	84.63	2.67
Unplanned unavailable hours	0	0	0	6.18	0	32.32	0	15.77
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	1.6%	1.4%	1.4%	1.3%	0.8%	0.8%	1.0%	0.9%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



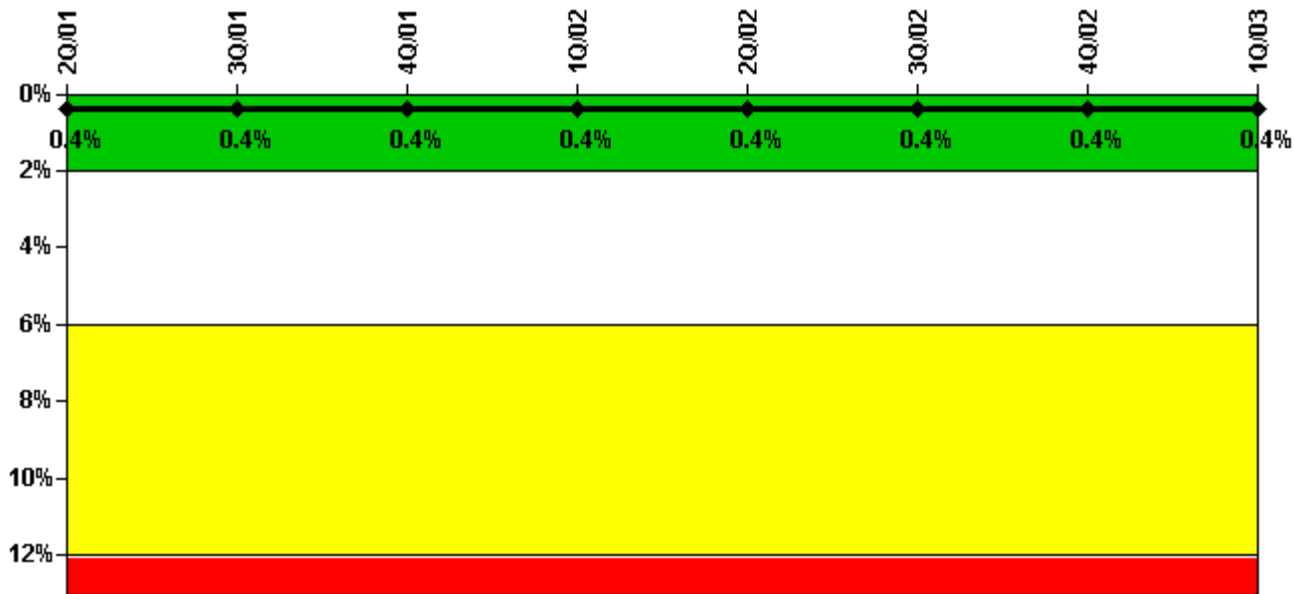
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0.27	0	0	10.93	0	6.06	0.68	18.96
Unplanned unavailable hours	0	0	0	8.72	0	0	9.82	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	1154.80	0	0	1851.33	2183.00	2208.00	2209.00	1795.10
Train 2								
Planned unavailable hours	0	0	0	12.58	23.08	0.37	4.22	6.29
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1154.80	0	0	1851.33	2183.00	2208.00	2209.00	1795.10
Indicator value	0.4%	0.4%	0.4%	0.5%	0.5%	0.5%	0.5%	0.5%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



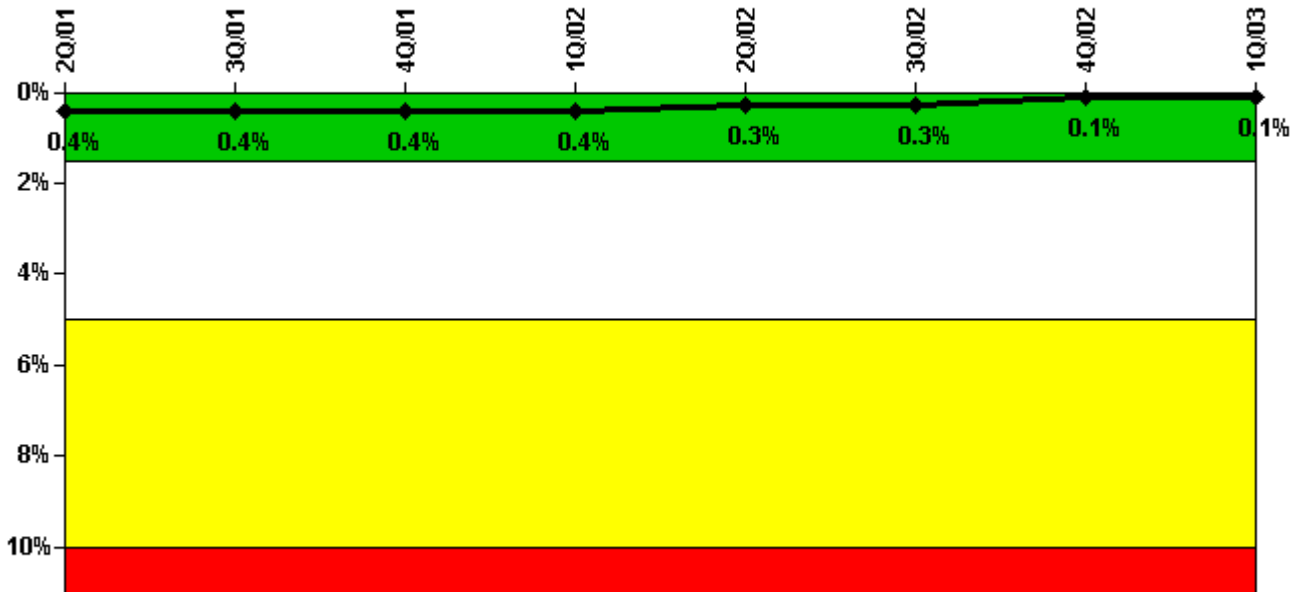
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0.73	0	0	4.40	2.48	6.18	5.38	1.42
Unplanned unavailable hours	0	0	0	0	0	0	0	0.32
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1154.80	0	0	1851.33	2183.00	2208.00	2209.00	1795.10
Train 2								
Planned unavailable hours	0	0	0	1.22	3.55	6.18	2.06	1.88
Unplanned unavailable hours	0	0	0	0	0	0	0	0.32
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1072.40	0	0	1768.40	2183.00	2208.00	2209.00	1795.10
Train 3								
Planned unavailable hours	0	0	0	1.08	0.73	9.30	0.95	10.15
Unplanned unavailable hours	0	0	0	0	0	0	0	0.18
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1154.80	0	0	1851.33	2183.00	2208.00	2209.00	1795.10
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

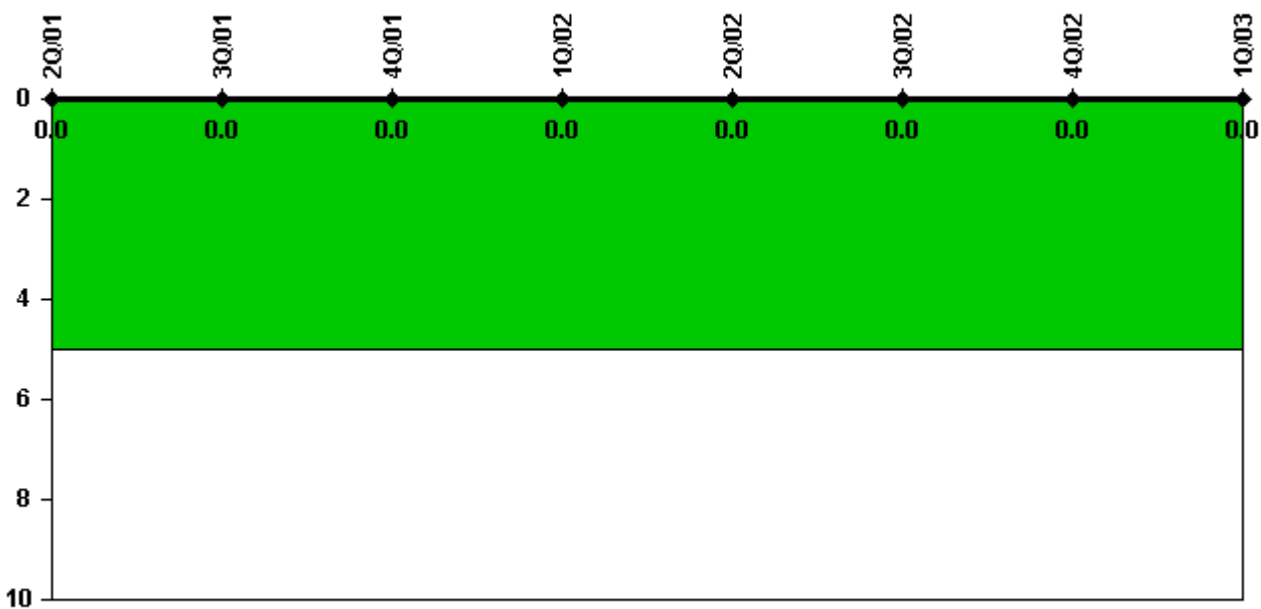
Notes

Safety System Unavailability, Residual Heat Removal System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0.83	0	0	2.30	0.92	1.01	8.20	17.59
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1154.80	0	0	1851.33	2183.00	2208.00	2209.00	1795.10
Train 2								
Planned unavailable hours	0	0	0	0	0.66	0	0	3.38
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1154.80	0	0	1851.33	2183.00	2208.00	2209.00	1795.10
Train 3								
Planned unavailable hours	0	1.82	1.00	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0.33
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	900.70	2208.00	2209.00	302.12	0	0	0	364.90
Train 4								
Planned unavailable hours	0	1.13	1.20	0	0	0	0	9.77

Unplanned unavailable hours	0	0	0	0	0	0	0	0.33
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	789.90	2208.00	2209.00	302.12	0	0	0	364.90
Indicator value	0.4%	0.4%	0.4%	0.4%	0.3%	0.3%	0.1%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



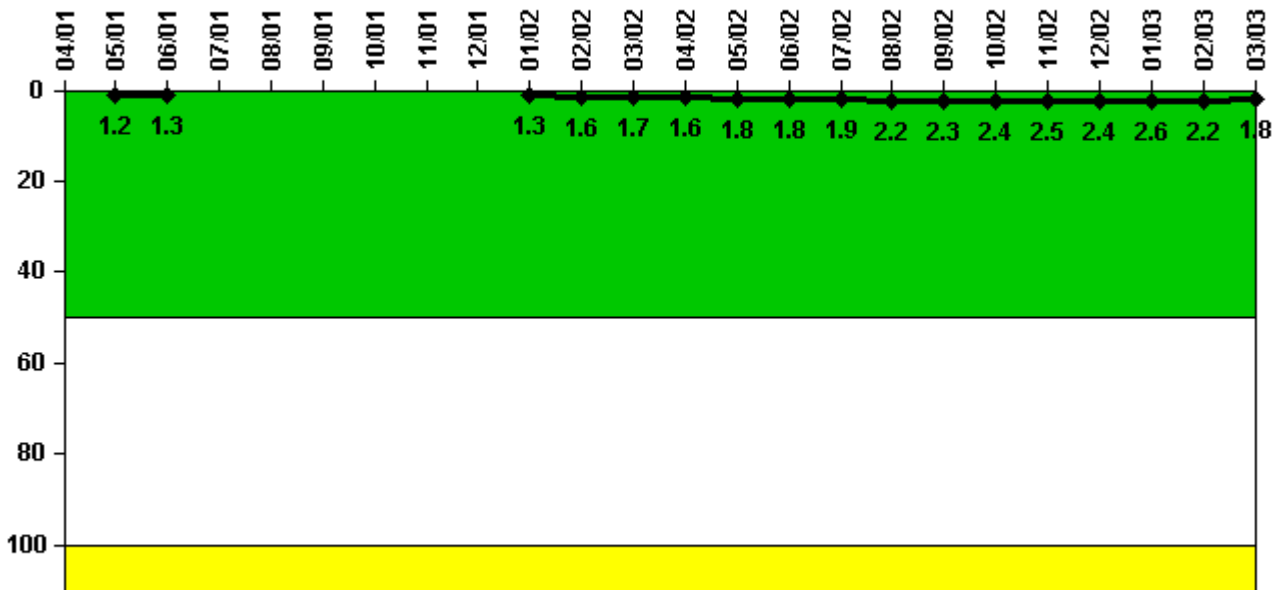
Thresholds: White > 5.0

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

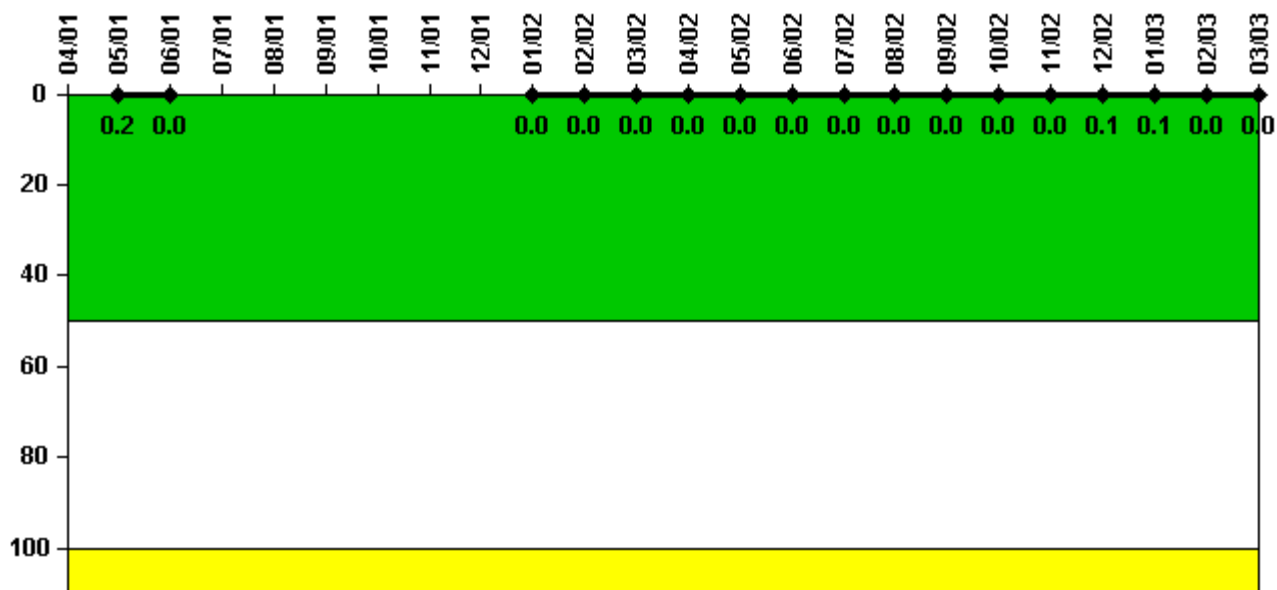
Notes

Reactor Coolant System Activity	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum activity	N/A	0.012300	0.013000	N/A	N/A	N/A	N/A	N/A	N/A	0.013300	0.016400	0.017300
Technical specification limit	N/A	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	1.2	1.3	N/A	N/A	N/A	N/A	N/A	N/A	1.3	1.6	1.7

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	0.016300	0.018100	0.018100	0.019300	0.021700	0.022700	0.023500	0.024700	0.024400	0.026000	0.022200	0.017900
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.6	1.8	1.8	1.9	2.2	2.3	2.4	2.5	2.4	2.6	2.2	1.8

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

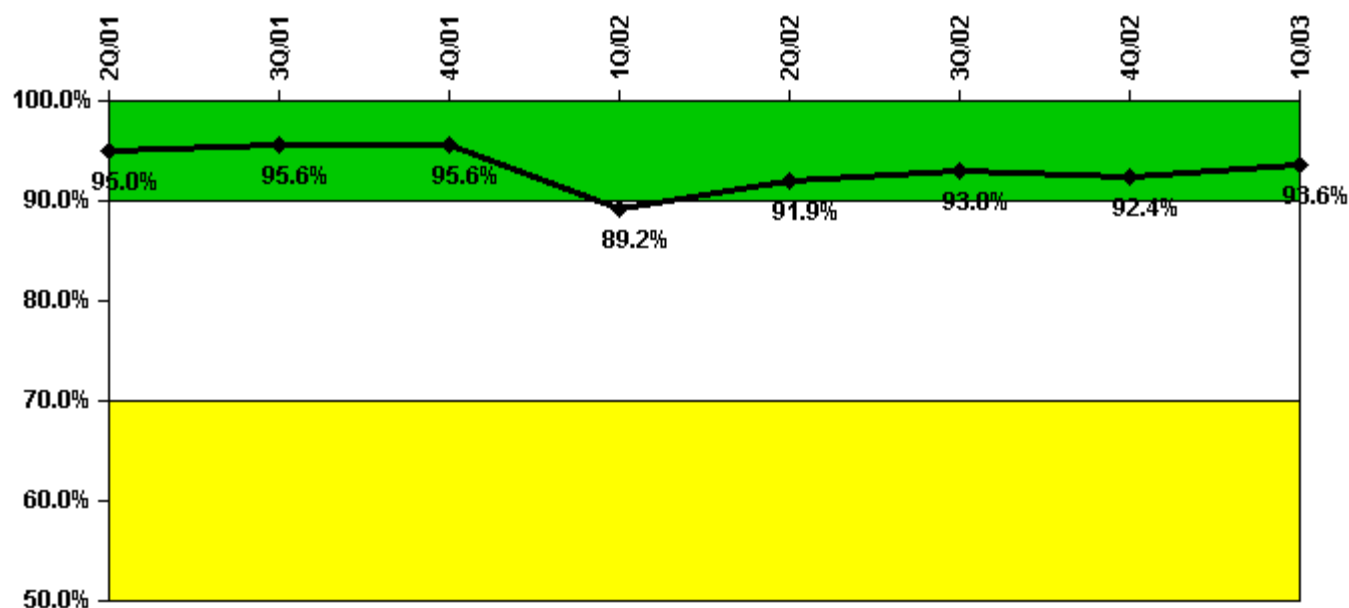
Notes

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	N/A	0.015	0.003	N/A	N/A	N/A	N/A	N/A	N/A	0.003	0	0
Technical specification limit	N/A	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	N/A	0.2	0	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0

Reactor Coolant System Leakage	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum leakage	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.005	0.005	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0.1	0.1	0	0

Licensee Comments: none

Drill/Exercise Performance



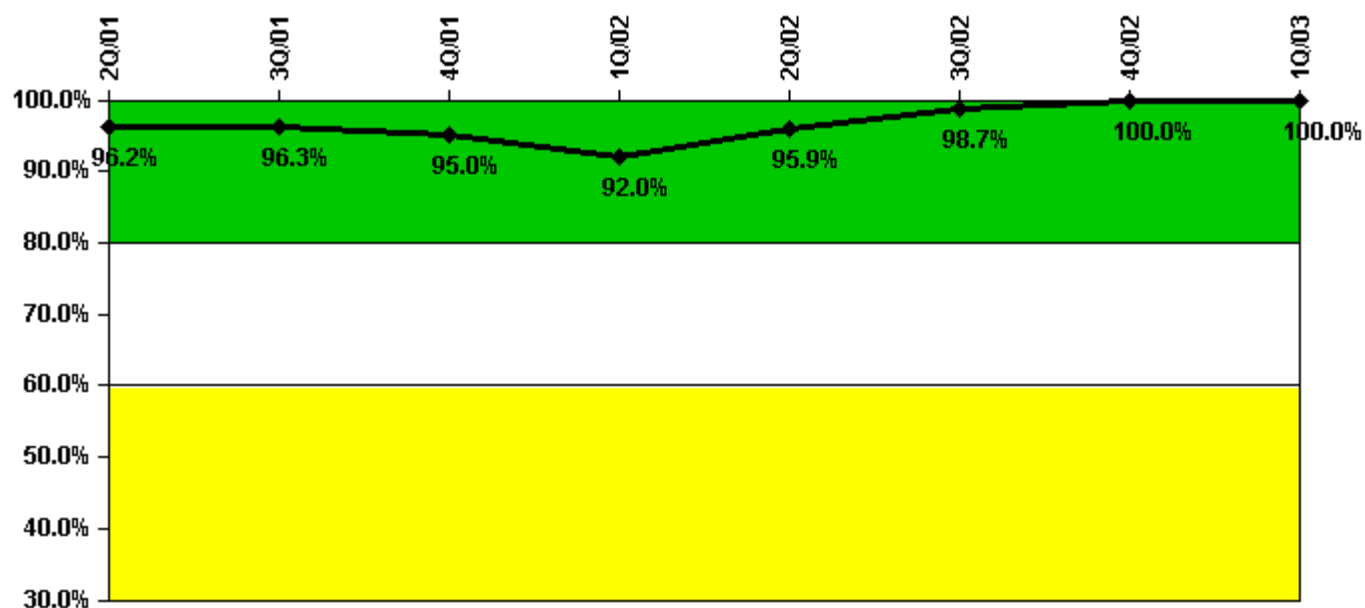
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful opportunities	0	2.0	0	15.0	69.0	11.0	24.0	40.0
Total opportunities	0	2.0	0	20.0	72.0	11.0	26.0	41.0
Indicator value	95.0%	95.6%	95.6%	89.2%	91.9%	93.0%	92.4%	93.6%

Licensee Comments: none

ERO Drill Participation



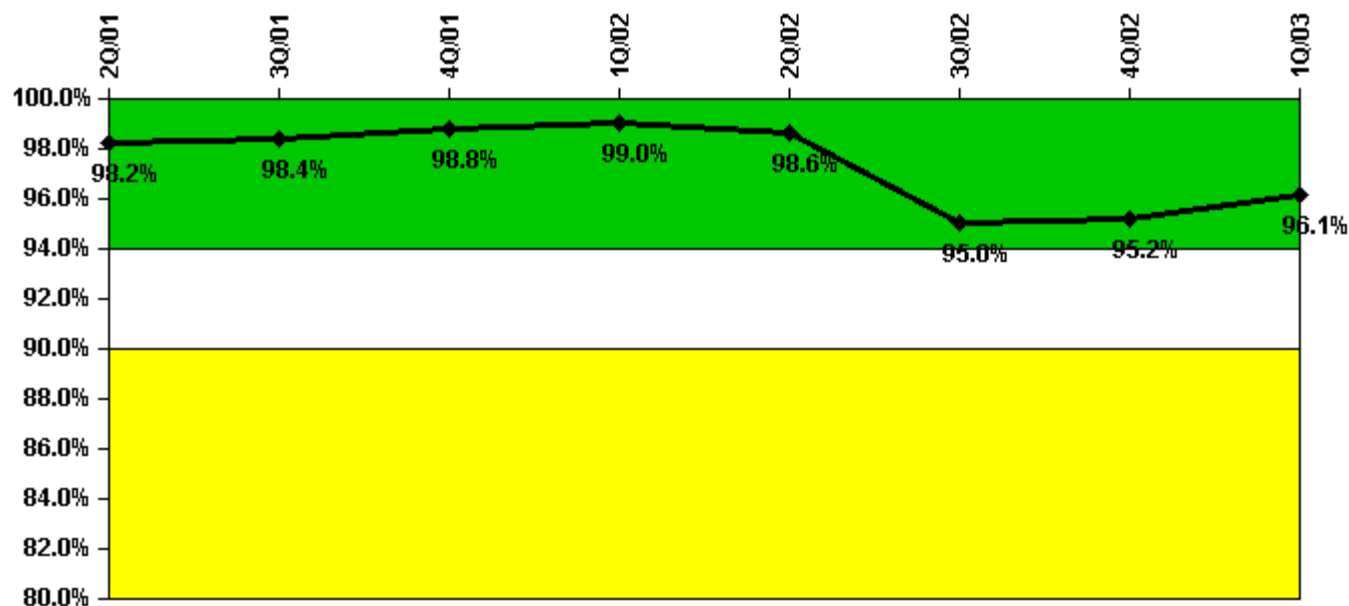
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Participating Key personnel	76.0	77.0	76.0	69.0	71.0	74.0	76.0	75.0
Total Key personnel	79.0	80.0	80.0	75.0	74.0	75.0	76.0	75.0
Indicator value	96.2%	96.3%	95.0%	92.0%	95.9%	98.7%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



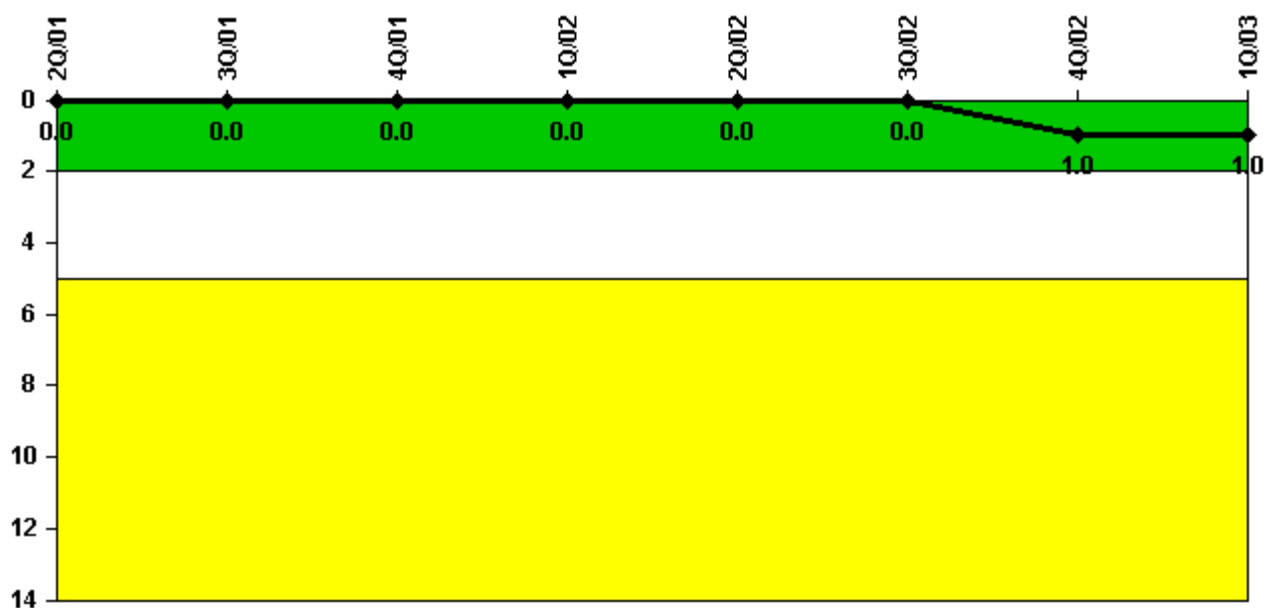
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful siren-tests	251	246	250	251	247	210	252	486
Total sirens-tests	252	252	252	252	252	252	252	488
Indicator value	98.2%	98.4%	98.8%	99.0%	98.6%	95.0%	95.2%	96.1%

Licensee Comments: none

Occupational Exposure Control Effectiveness

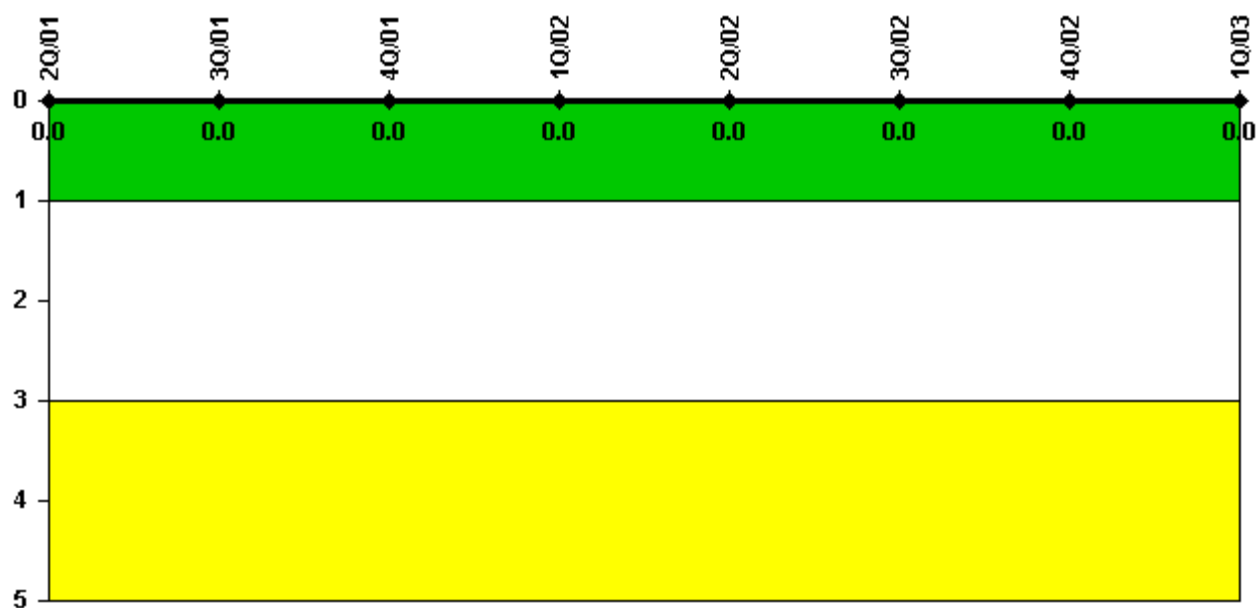


Thresholds: White > 2.0 Yellow > 5.0

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

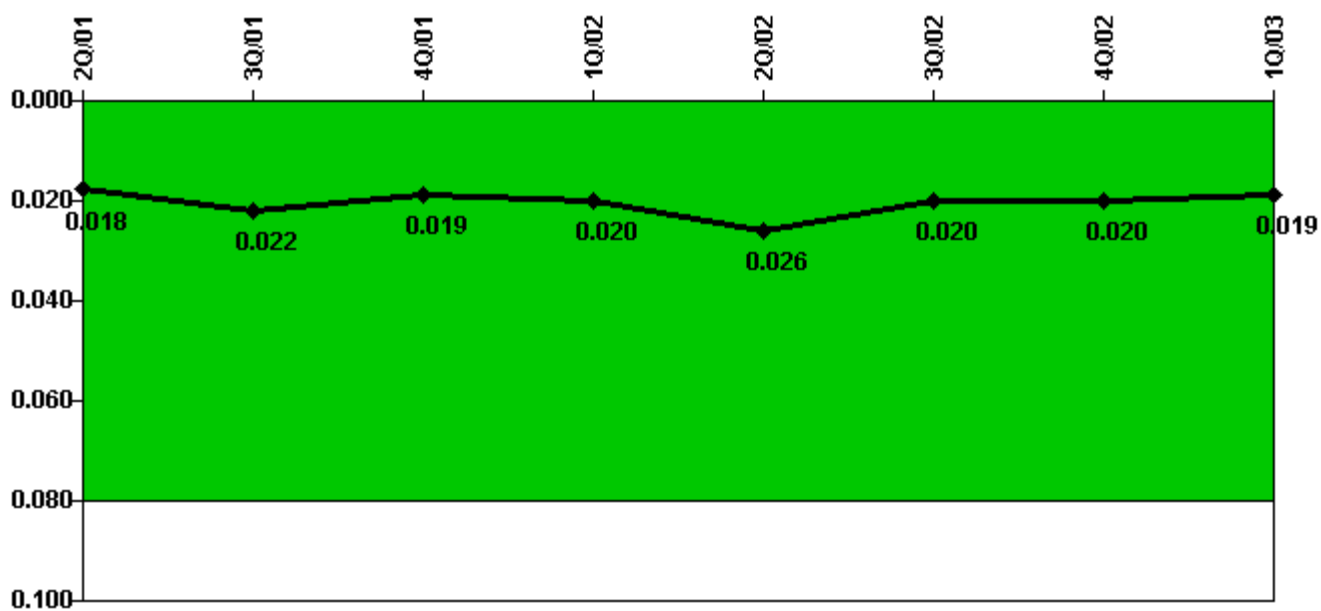
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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



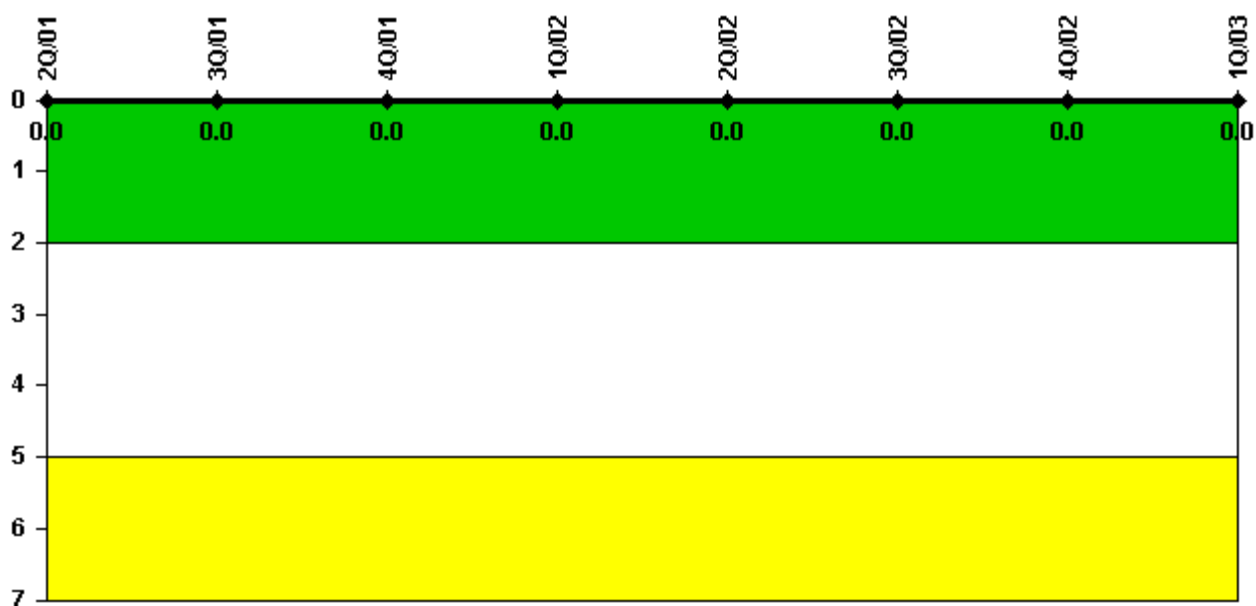
Thresholds: White > 0.080

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	126.28	163.03	136.99	74.69	279.20	22.20	137.42	35.02
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.018	0.022	0.019	0.020	0.026	0.020	0.020	0.019

Licensee Comments: none

Personnel Screening Program



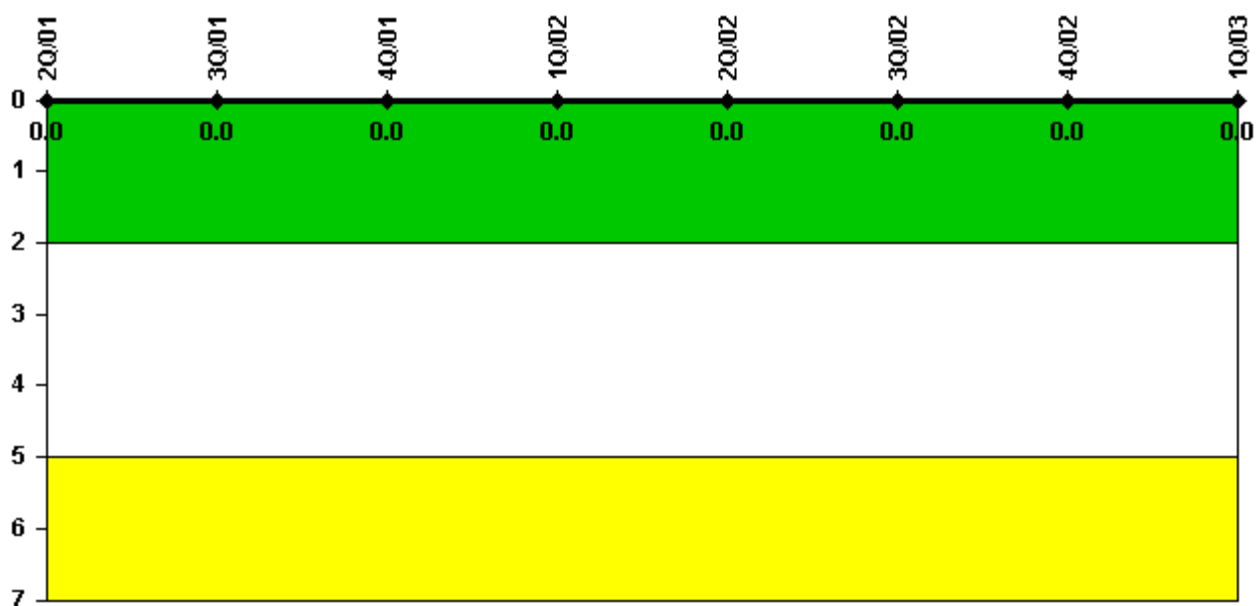
Thresholds: White > 2.0 Yellow > 5.0

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](#)

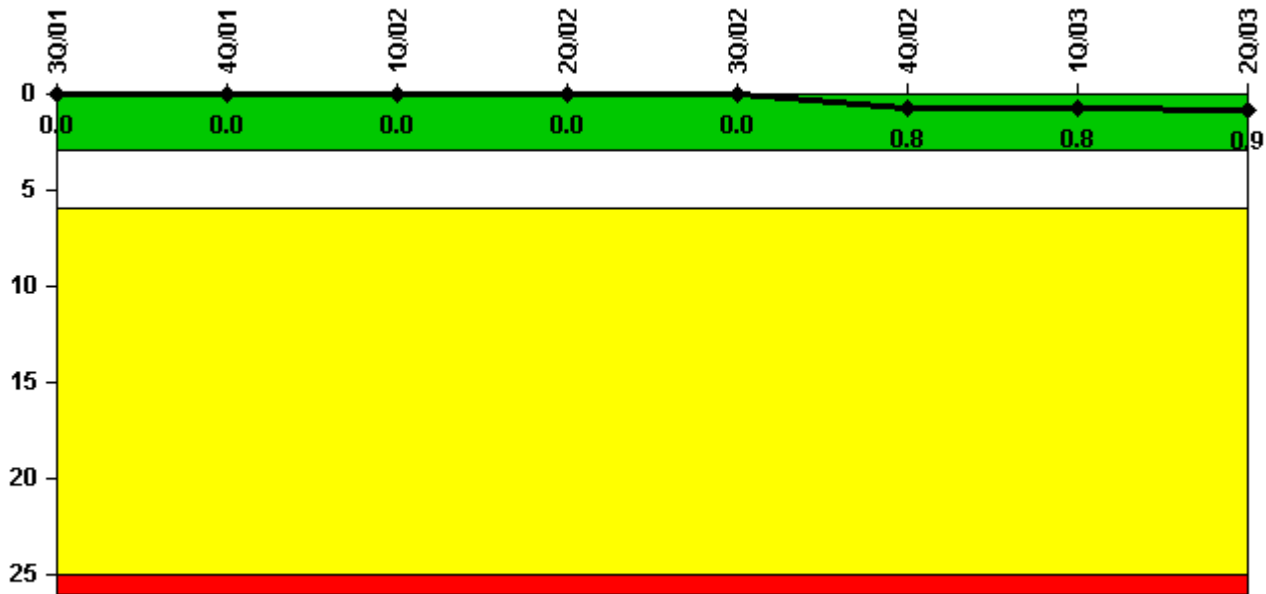
Last Modified: April 22, 2003

Palisades

2Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



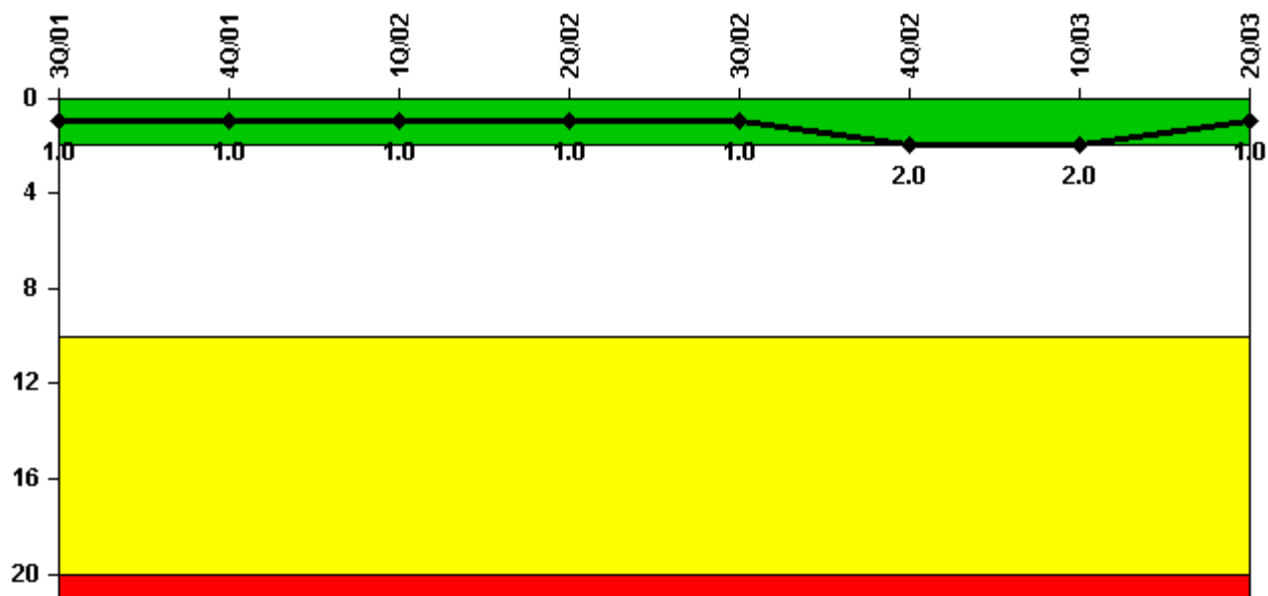
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0
Critical hours	0	0	1768.4	2183.0	2208.0	2142.1	1782.4	1743.9
Indicator value	0	0	0	0	0	0.8	0.8	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



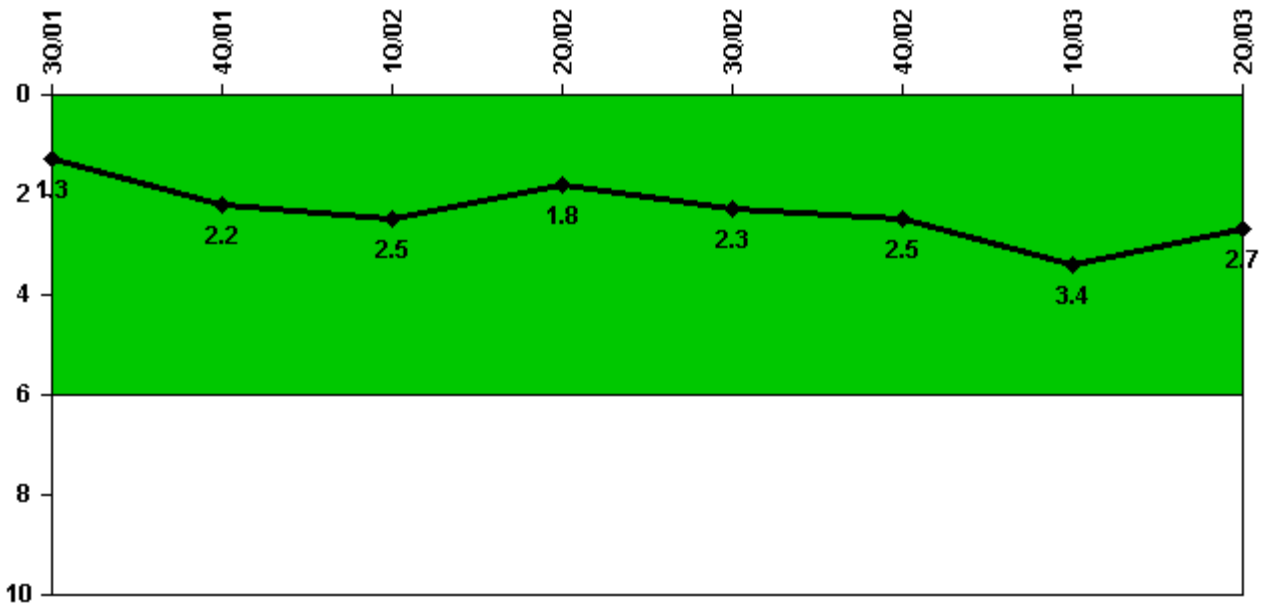
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Scrams	0	0	0	0	0	1.0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



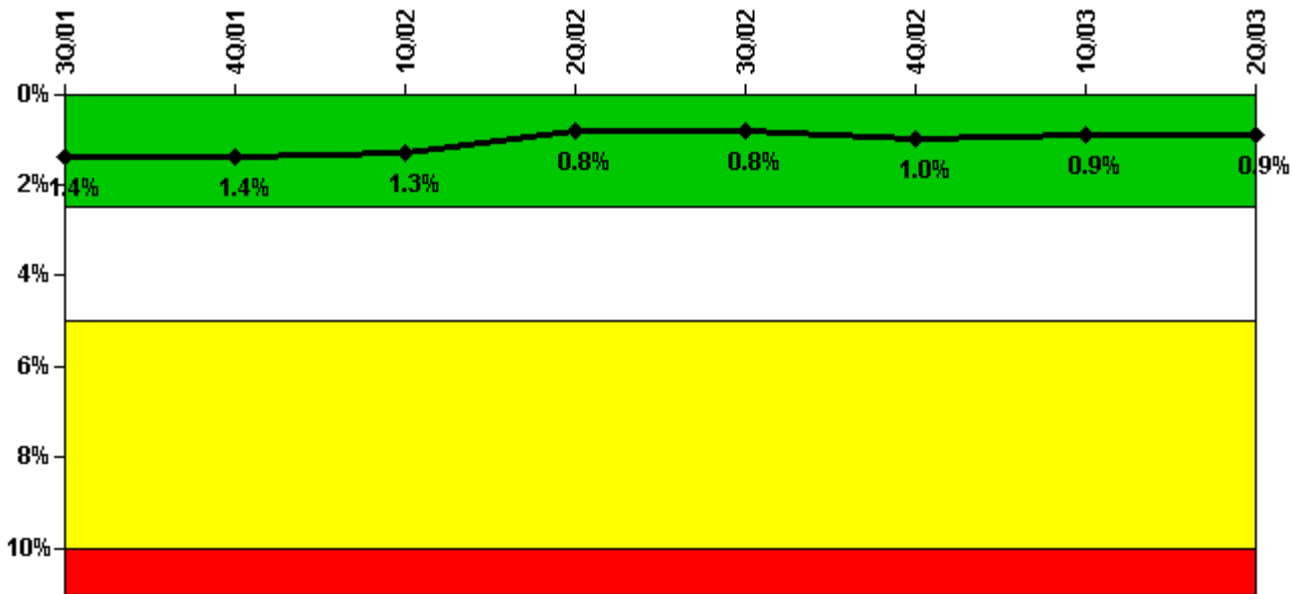
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned power changes	0	0	0	1.0	1.0	1.0	1.0	0
Critical hours	0	0	1768.4	2183.0	2208.0	2142.1	1782.4	1743.9
Indicator value	1.3	2.2	2.5	1.8	2.3	2.5	3.4	2.7

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

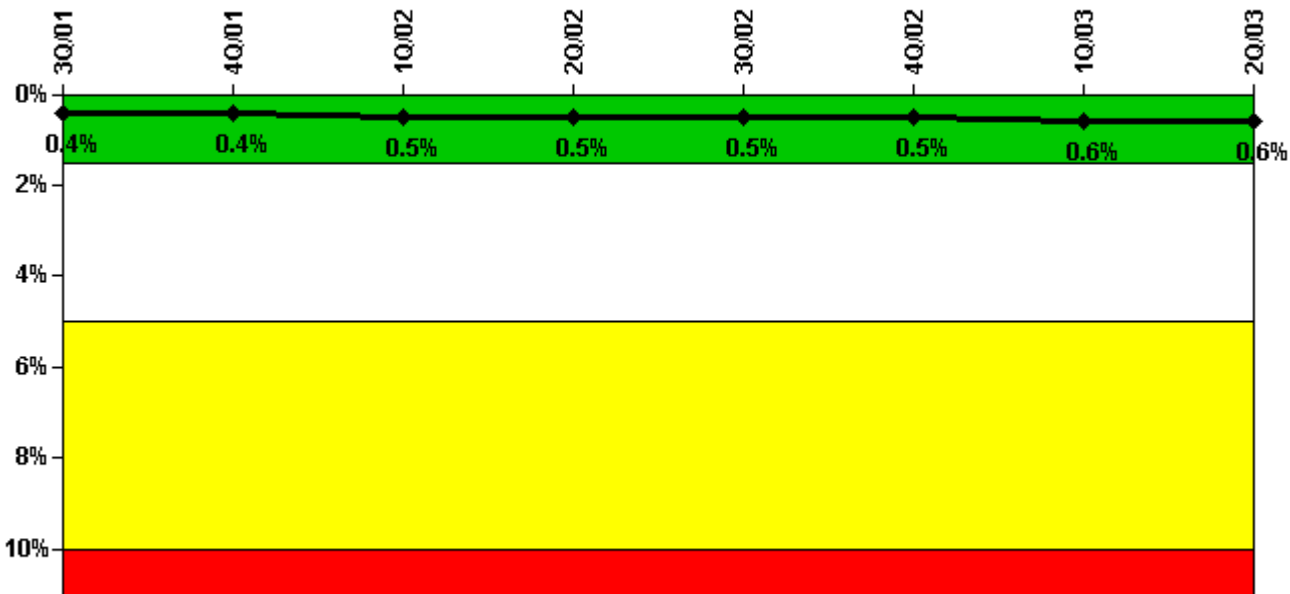
Notes

Safety System Unavailability, Emergency AC Power	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	0	0	0.57	47.22	3.75	64.58	7.33	12.80
Unplanned unavailable hours	0	0	0	0	5.72	5.07	5.57	0
Fault exposure hours	0	0	0	0	4.57	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	0	0	0.99	0.57	3.23	84.63	2.67	17.57
Unplanned unavailable hours	0	0	6.18	0	32.32	0	15.77	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	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	1.4%	1.4%	1.3%	0.8%	0.8%	1.0%	0.9%	0.9%

Licensee Comments:

1Q/03: Data adjusted for Train 1 planned and unplanned unavailability for the month of February 2003. The revision results in an increase in diesel generator unavailability of 46 minutes.

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	10.93	0	6.06	0.68	18.96	12.78
Unplanned unavailable hours	0	0	8.72	0	0	18.22	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52
Train 2								
Planned unavailable hours	0	0	12.58	23.08	0.37	4.22	6.29	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52
Indicator value	0.4%	0.4%	0.5%	0.5%	0.5%	0.5%	0.6%	0.6%

Licensee Comments:

4Q/02: Train 1 December 2002 unplanned unavailable hours were adjusted from 9.82 to 18.22. The adjustment reflects correction for documented hours for system tagout.

Safety System Unavailability, Heat Removal System (AFW)



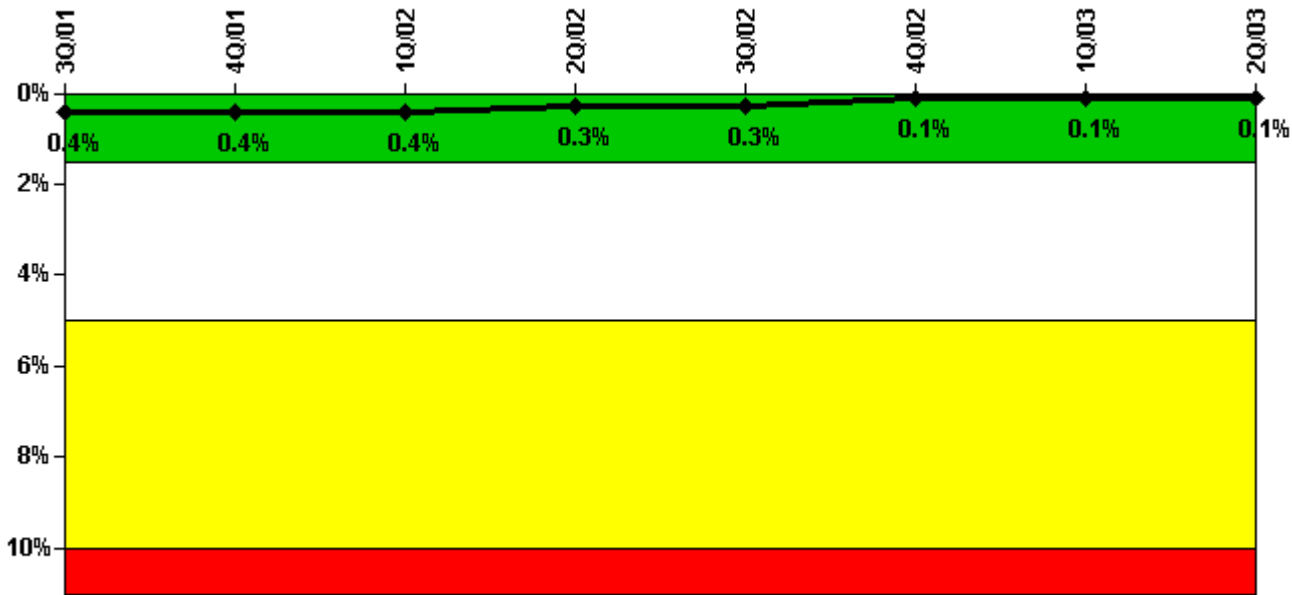
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	0	0	4.40	2.48	6.18	5.38	1.42	1.27
Unplanned unavailable hours	0	0	0	0	0	0	0.32	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52
Train 2								
Planned unavailable hours	0	0	1.22	3.55	6.18	2.06	1.88	15.51
Unplanned unavailable hours	0	0	0	0	0	0	0.32	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	1768.40	2183.00	2208.00	2209.00	1795.10	1777.52
Train 3								
Planned unavailable hours	0	0	1.08	0.73	9.30	0.95	10.15	26.48
Unplanned unavailable hours	0	0	0	0	0	0	0.18	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

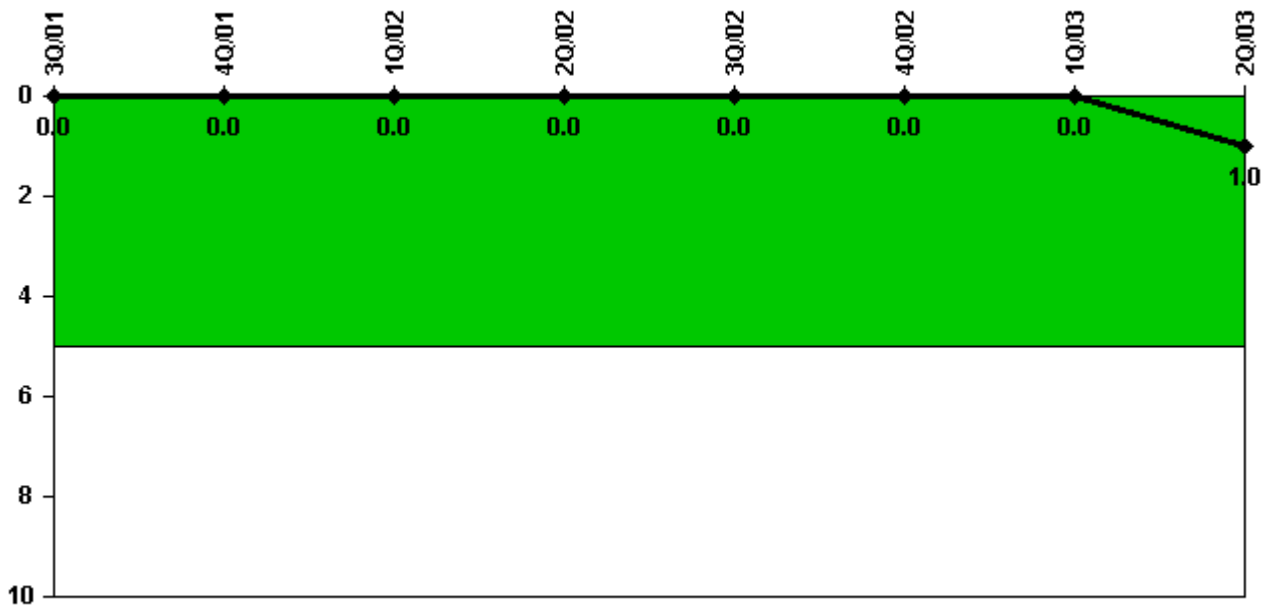
Notes

Safety System Unavailability, Residual Heat Removal System	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	0	0	2.30	0.92	1.01	8.20	17.59	0.90
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52
Train 2								
Planned unavailable hours	0	0	0	0.66	0	0	3.38	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52
Train 3								
Planned unavailable hours	1.82	1.00	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0.33	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	2208.00	2209.00	302.12	0	0	0	364.90	295.68
Train 4								
Planned unavailable hours	1.13	1.20	0	0	0	0	9.77	0
Unplanned unavailable hours	0	0	0	0	0	0	0.33	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	302.12	0	0	0	364.90	343.66
Indicator value	0.4%	0.4%	0.4%	0.3%	0.3%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



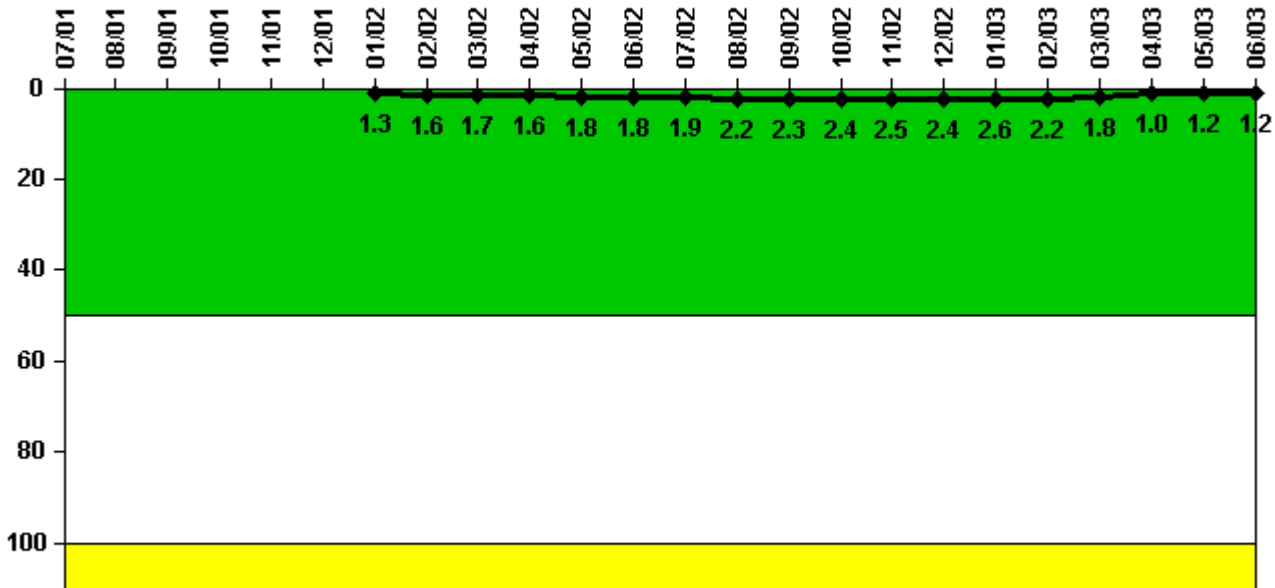
Thresholds: White > 5.0

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

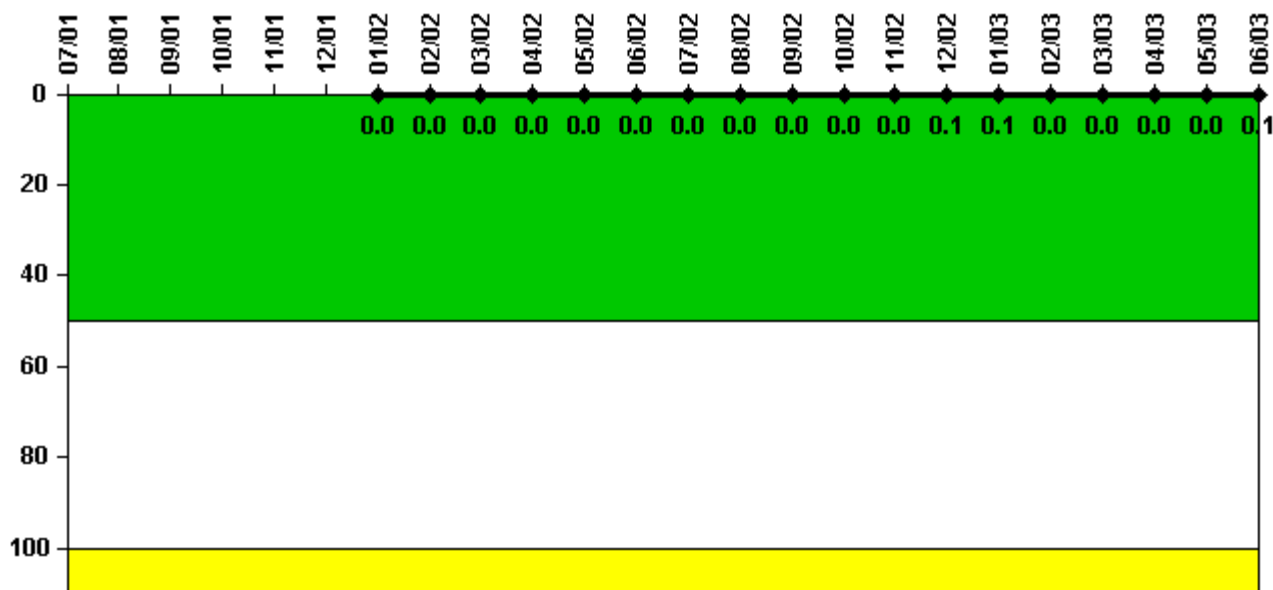
Notes

Reactor Coolant System Activity	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	N/A	N/A	N/A	N/A	N/A	N/A	0.013300	0.016400	0.017300	0.016300	0.018100	0.018100
Technical specification limit	1.0	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	N/A	N/A	N/A	N/A	1.3	1.6	1.7	1.6	1.8	1.8

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	0.019300	0.021700	0.022700	0.023500	0.024700	0.024400	0.026000	0.022200	0.017900	0.009580	0.011800	0.011600
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.9	2.2	2.3	2.4	2.5	2.4	2.6	2.2	1.8	1.0	1.2	1.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

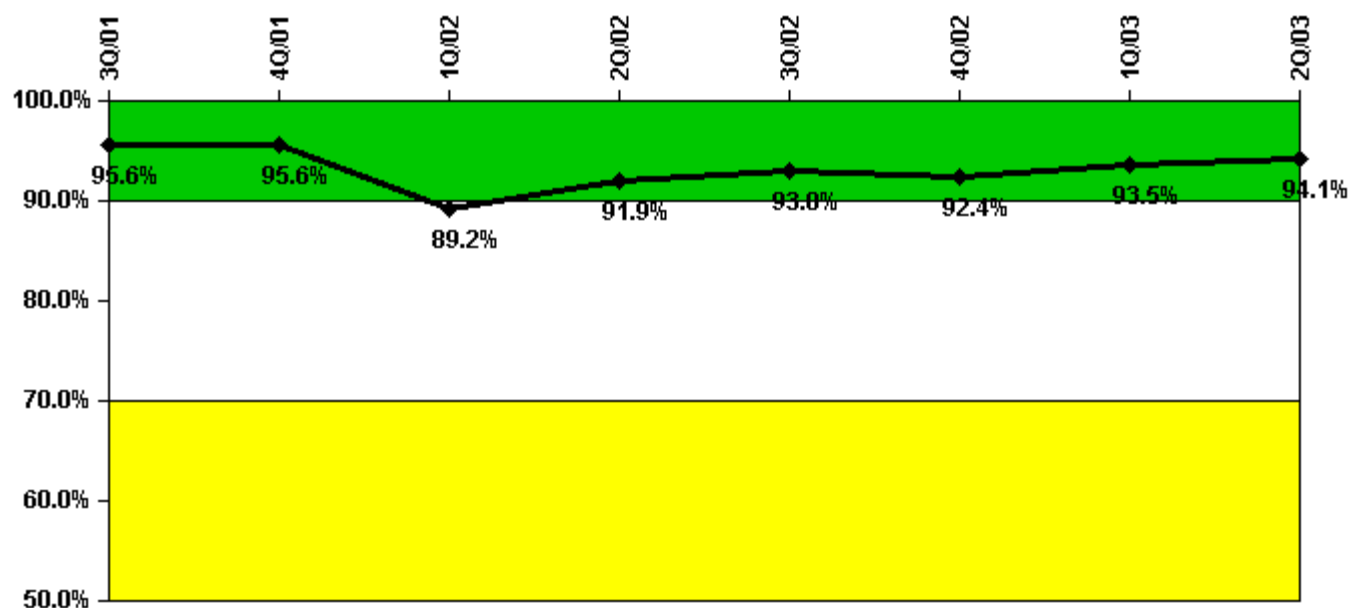
Notes

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	N/A	N/A	N/A	N/A	N/A	N/A	0.003	0	0	0.002	0.002	0.002
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0

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	0.002	0.002	0.001	0.001	0.001	0.005	0.005	0.001	0.001	0.002	0.002	0.007
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0.1	0.1	0	0	0	0	0.1

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

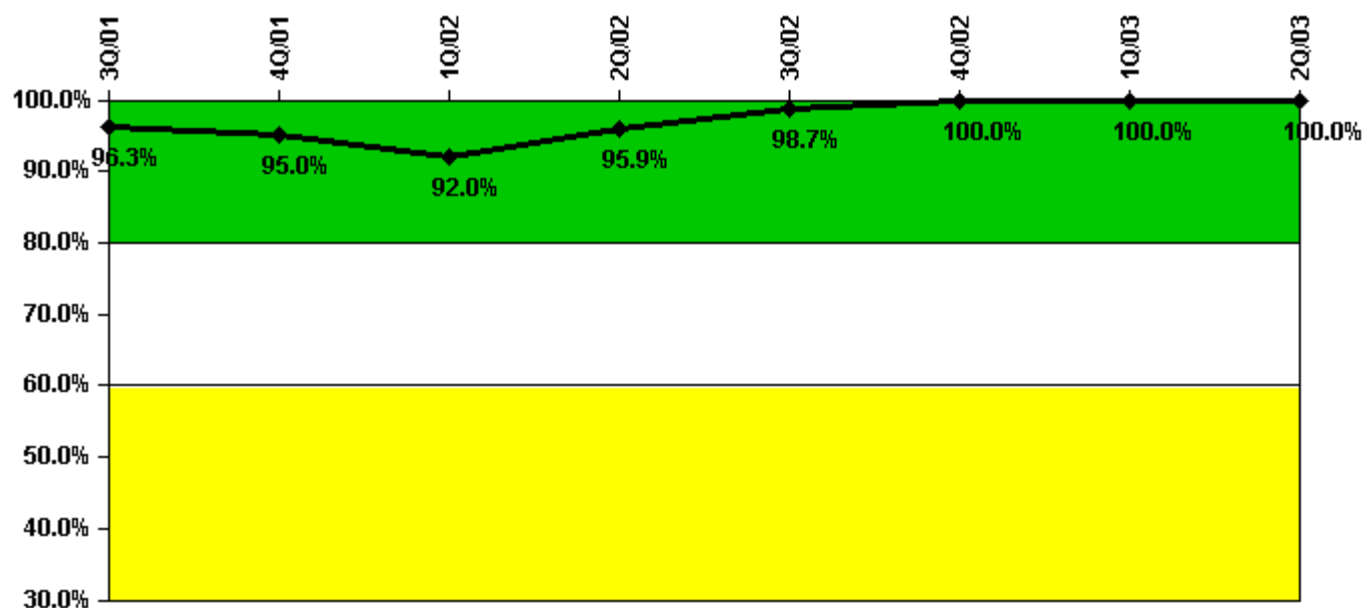
Notes

Drill/Exercise Performance	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Successful opportunities	2.0	0	15.0	69.0	11.0	24.0	38.0	18.0
Total opportunities	2.0	0	20.0	72.0	11.0	26.0	39.0	18.0
Indicator value	95.6%	95.6%	89.2%	91.9%	93.0%	92.4%	93.5%	94.1%

Licensee Comments:

1Q/03: Data adjusted for March 2003 which resulted in removing 2 opportunities during the month and 2 opportunities performed accurately during the month. Classification and notification associated with a downgrade in classification from an Alert to a Notification of Unusual Event should not have been counted as an opportunity.

ERO Drill Participation



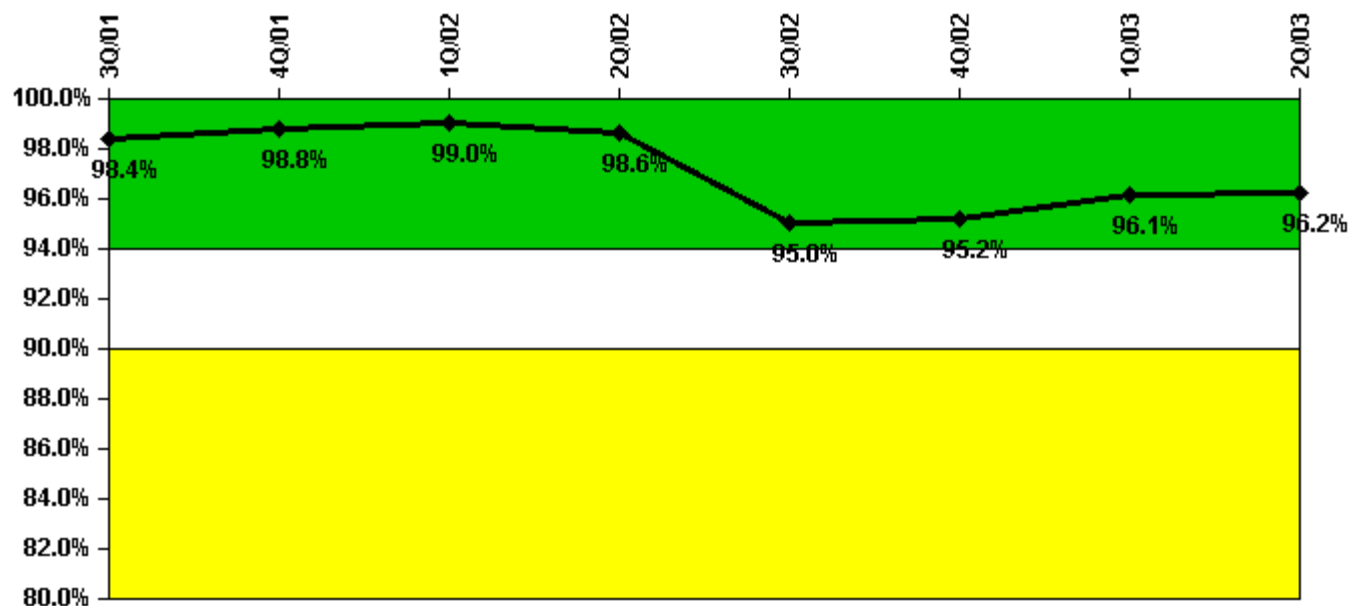
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Participating Key personnel	77.0	76.0	69.0	71.0	74.0	76.0	75.0	72.0
Total Key personnel	80.0	80.0	75.0	74.0	75.0	76.0	75.0	72.0
Indicator value	96.3%	95.0%	92.0%	95.9%	98.7%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



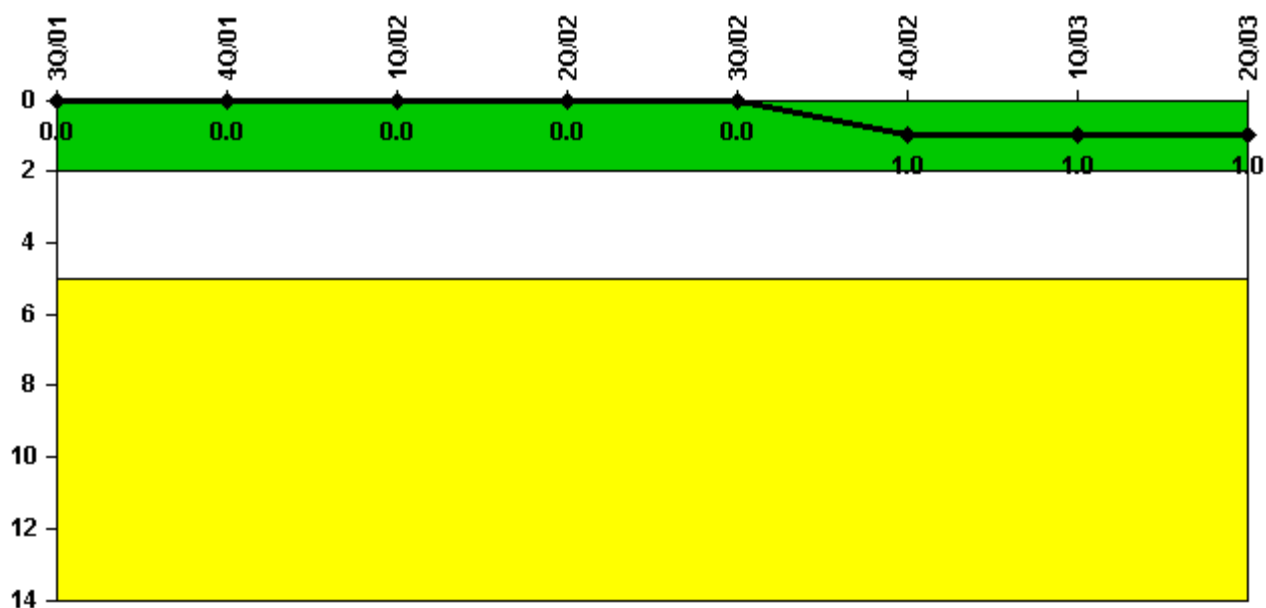
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Successful siren-tests	246	250	251	247	210	252	486	182
Total sirens-tests	252	252	252	252	252	252	488	183
Indicator value	98.4%	98.8%	99.0%	98.6%	95.0%	95.2%	96.1%	96.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness

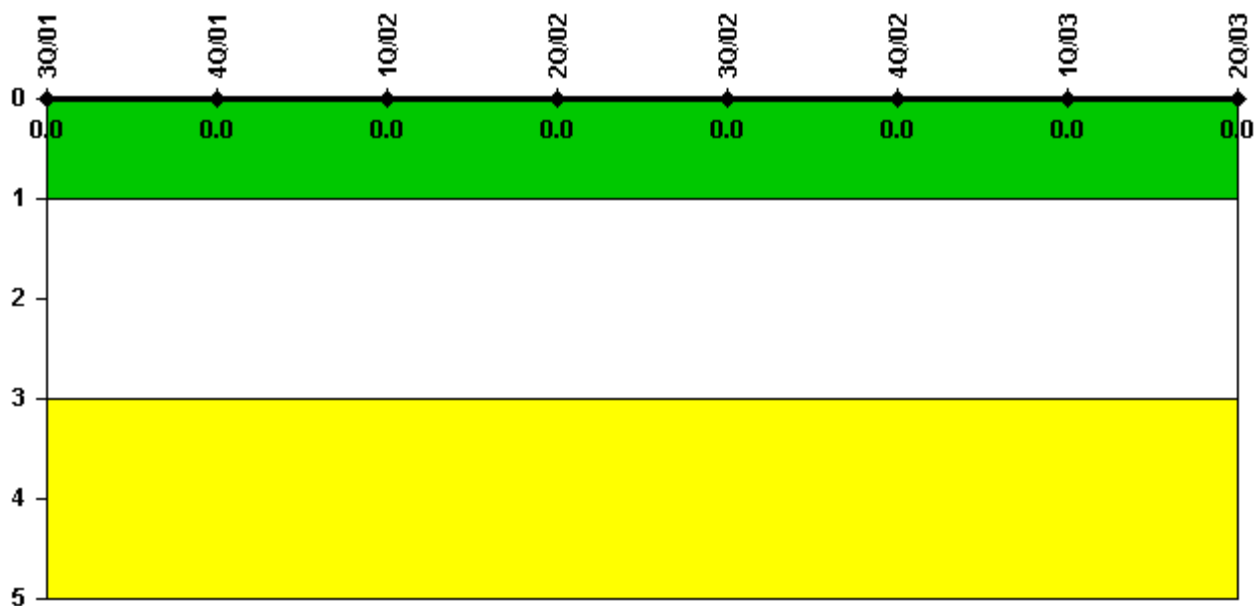


Thresholds: White > 2.0 Yellow > 5.0

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

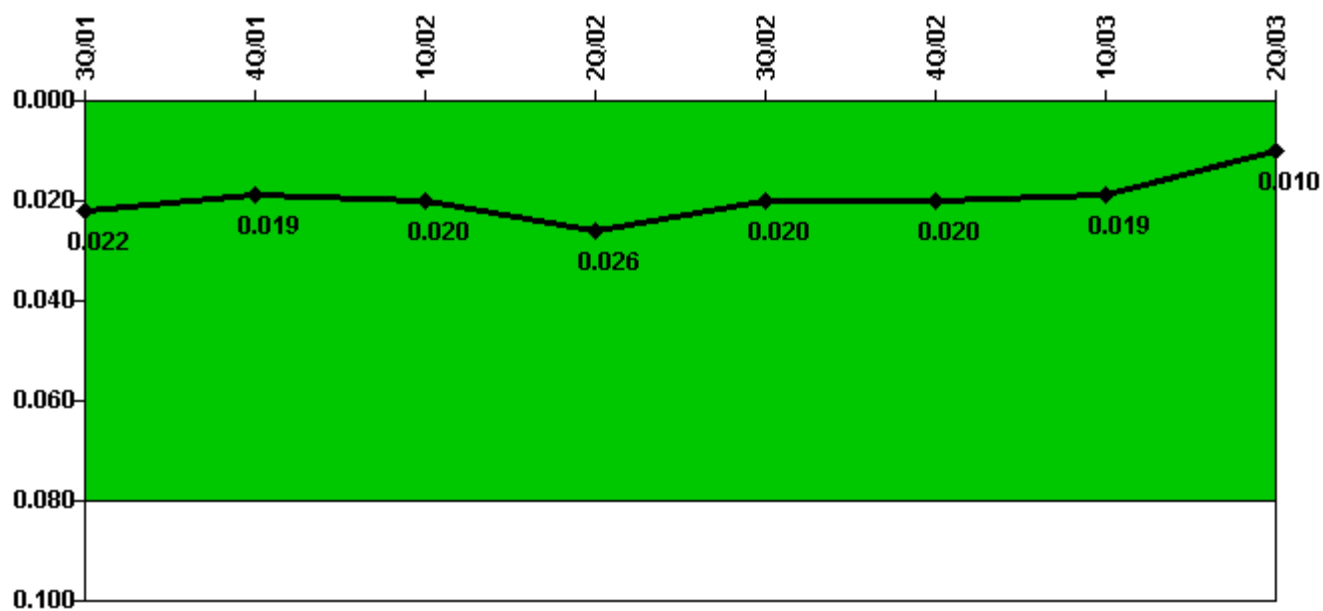
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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



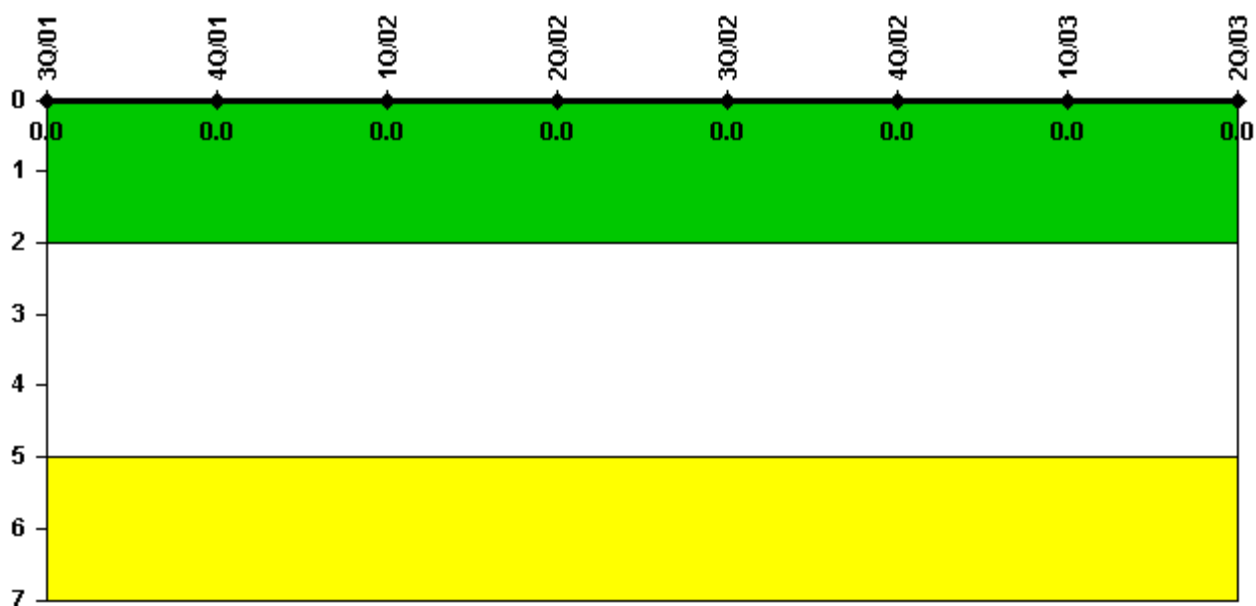
Thresholds: White > 0.080

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	163.03	136.99	74.69	279.20	22.20	137.42	35.02	53.18
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.022	0.019	0.020	0.026	0.020	0.020	0.019	0.010

Licensee Comments: none

Personnel Screening Program



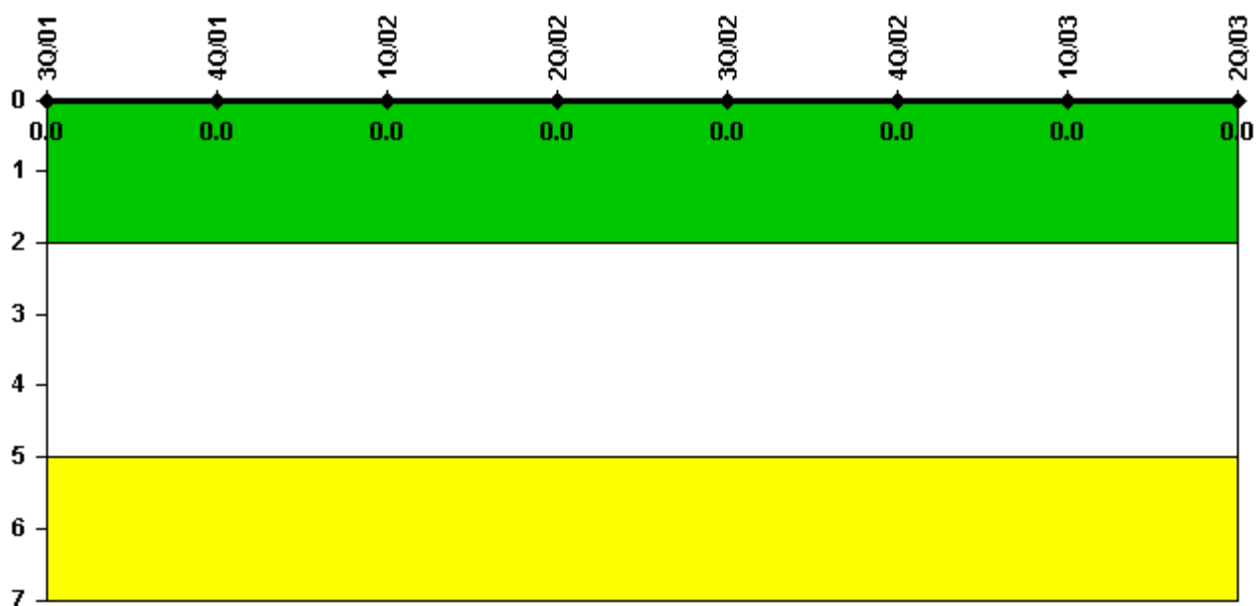
Thresholds: White > 2.0 Yellow > 5.0

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](#)

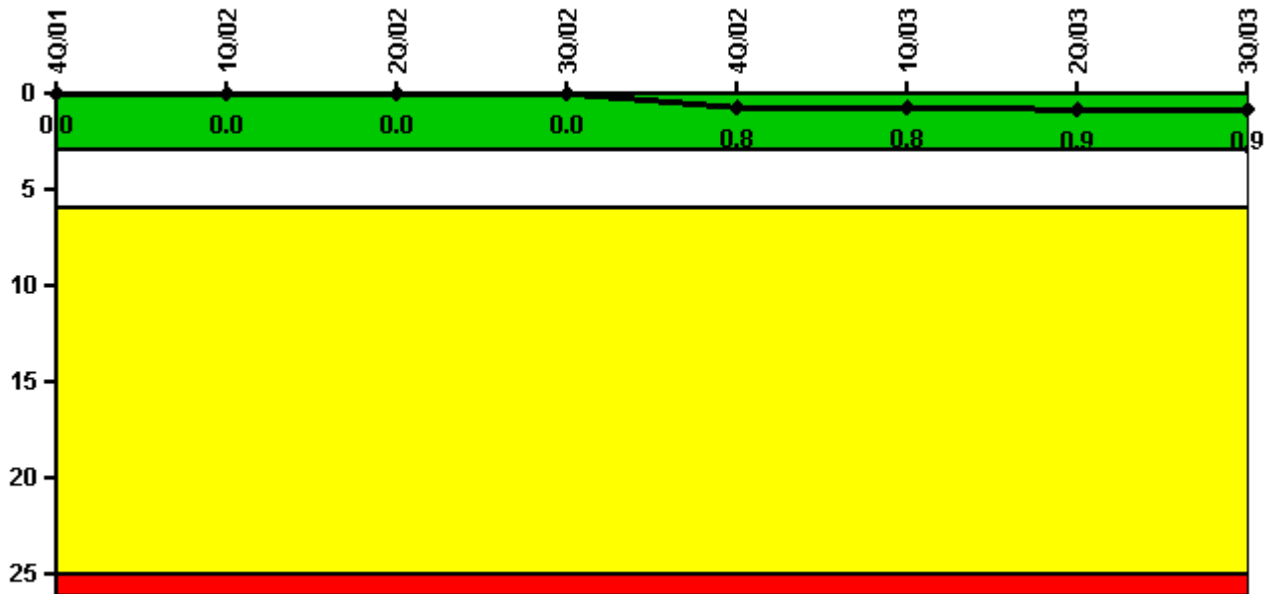
Last Modified: July 22, 2003

Palisades

3Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



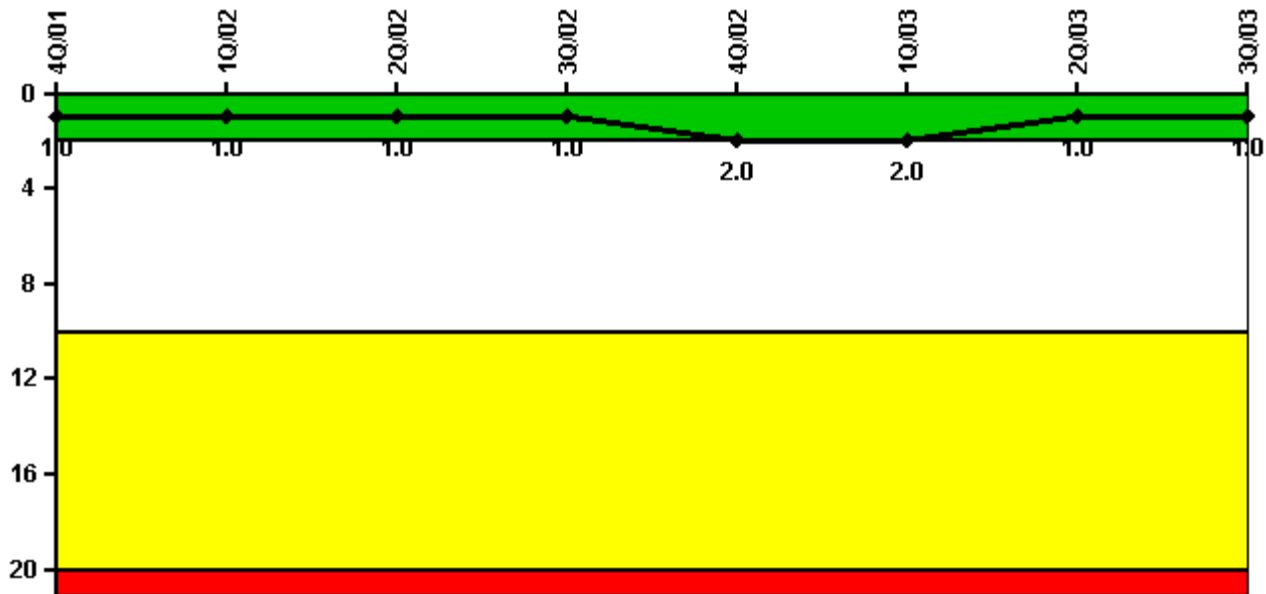
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0
Critical hours	0	1768.4	2183.0	2208.0	2142.1	1782.4	1743.9	2208.0
Indicator value	0	0	0	0	0.8	0.8	0.9	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



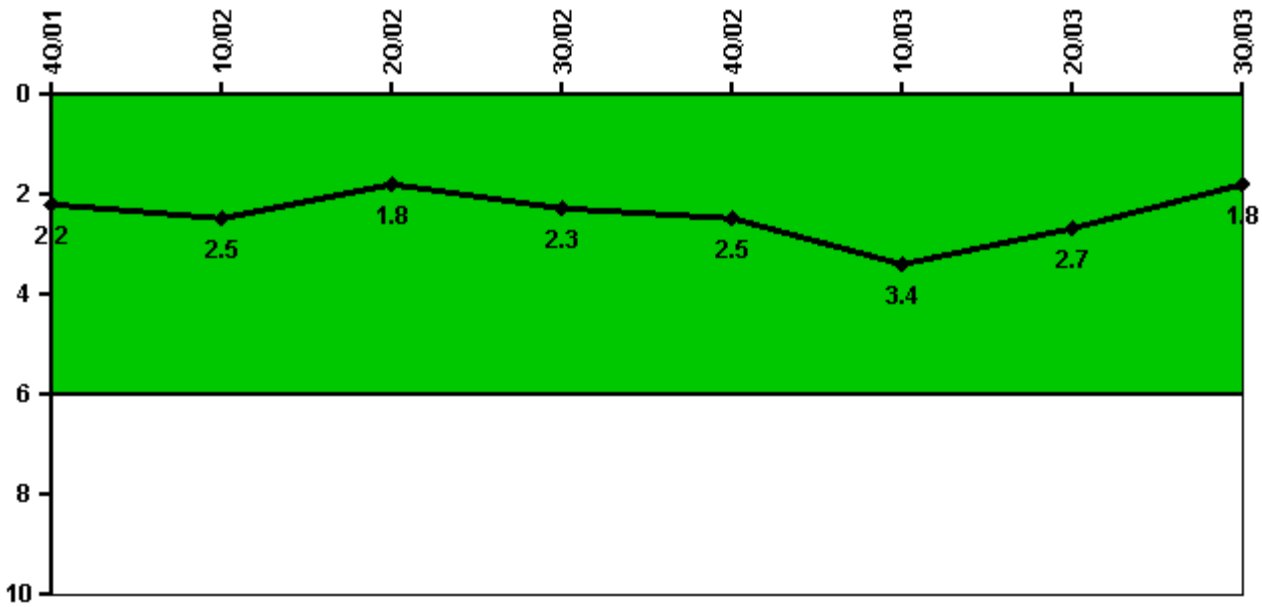
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Scrams	0	0	0	0	1.0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	2.0	2.0	1.0	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



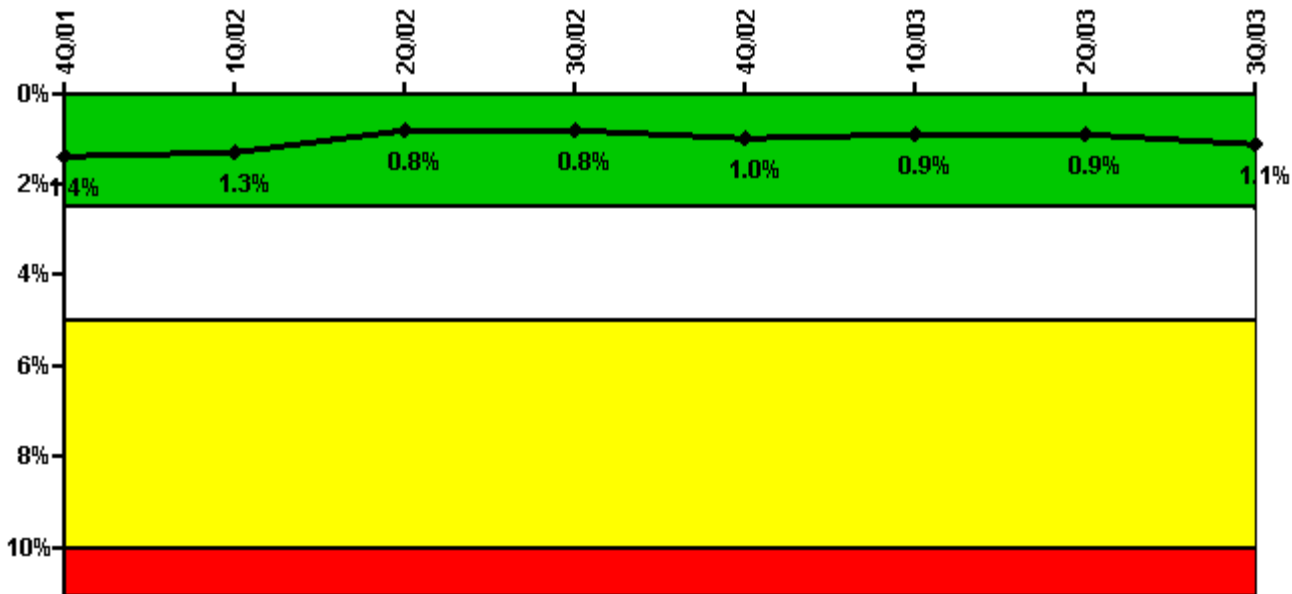
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned power changes	0	0	1.0	1.0	1.0	1.0	0	0
Critical hours	0	1768.4	2183.0	2208.0	2142.1	1782.4	1743.9	2208.0
Indicator value	2.2	2.5	1.8	2.3	2.5	3.4	2.7	1.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

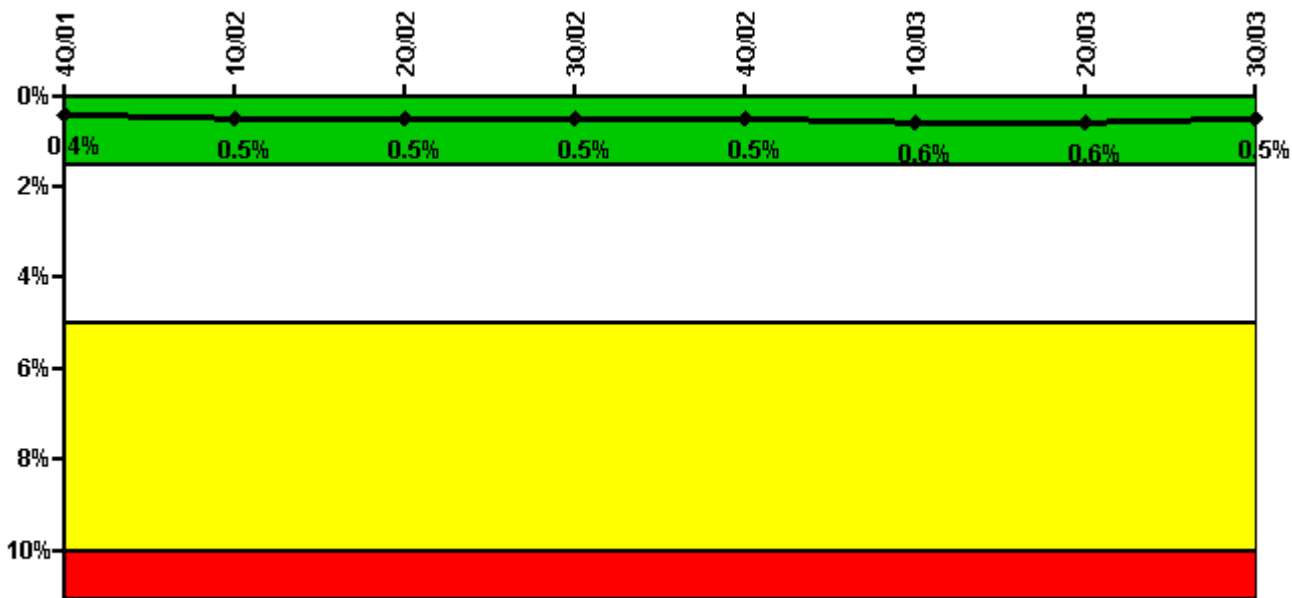
Notes

Safety System Unavailability, Emergency AC Power	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0	0.57	47.22	3.75	64.58	7.33	12.80	33.60
Unplanned unavailable hours	0	0	0	5.72	5.07	5.57	0	11.20
Fault exposure hours	0	0	0	4.57	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	0.99	0.57	3.23	84.63	2.67	17.57	42.75
Unplanned unavailable hours	0	6.18	0	32.32	0	15.77	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	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	1.4%	1.3%	0.8%	0.8%	1.0%	0.9%	0.9%	1.1%

Licensee Comments:

3Q/03: EDG1-1 Jacket water hose found degraded. The specific time of failure is not known. 33.03 hours of T/2 fault exposure hours are being counted against the train 1 performance indicator. Since the time of failure is not known the fault exposure hours are reported only in the comment section.

Safety System Unavailability, High Pressure Injection System (HPSI)



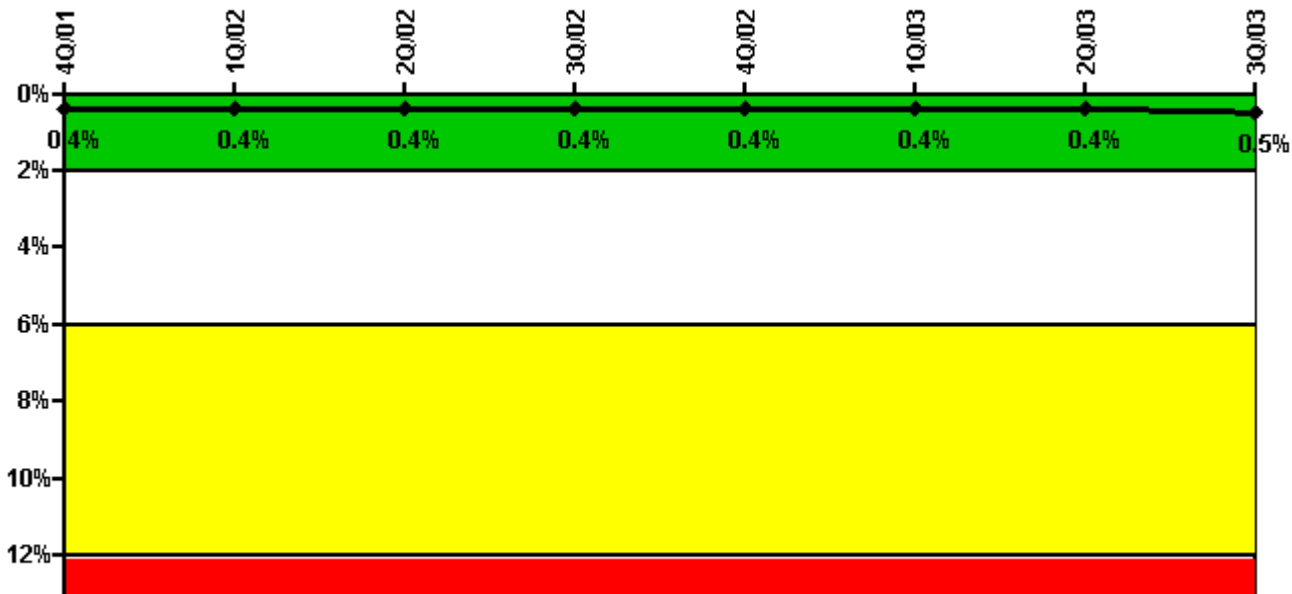
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	10.93	0	6.06	0.68	18.96	12.78	0
Unplanned unavailable hours	0	8.72	0	0	18.22	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00
Train 2								
Planned unavailable hours	0	12.58	23.08	0.37	4.22	6.29	0	2.40
Unplanned unavailable hours	0	0	0	0	0	0	0	43.57
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00
Indicator value	0.4%	0.5%	0.5%	0.5%	0.5%	0.6%	0.6%	0.5%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



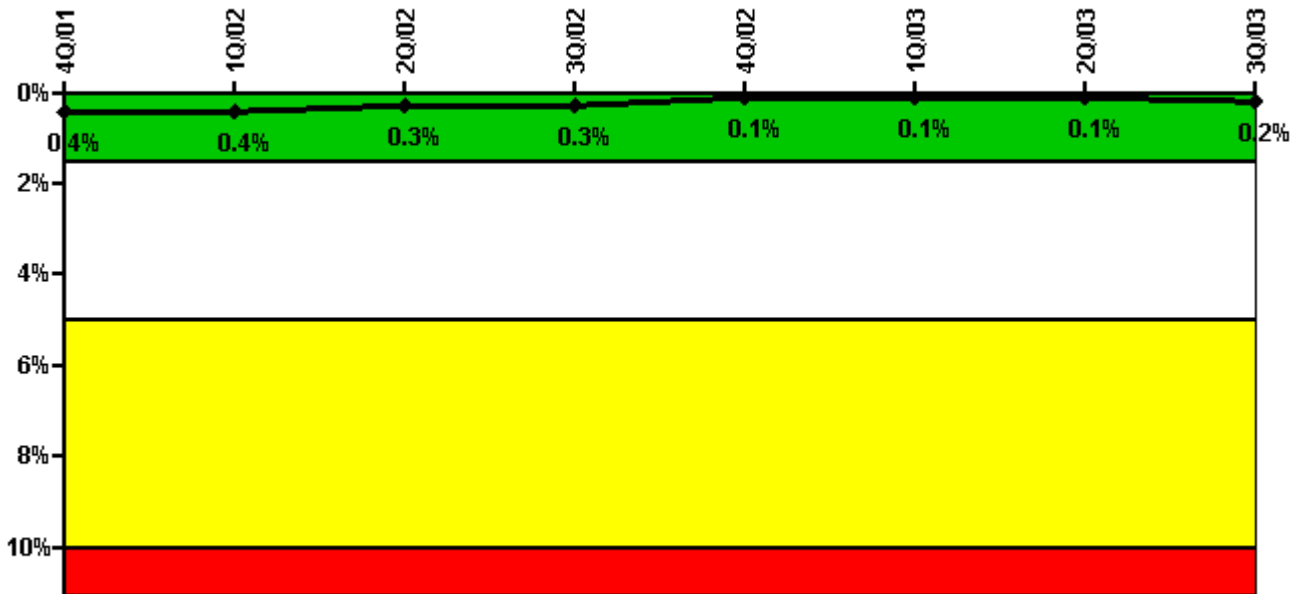
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0	4.40	2.48	6.18	5.38	1.42	1.27	25.78
Unplanned unavailable hours	0	0	0	0	0	0.32	0	25.37
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00
Train 2								
Planned unavailable hours	0	1.22	3.55	6.18	2.06	1.88	15.51	18.57
Unplanned unavailable hours	0	0	0	0	0	0.32	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	1768.40	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00
Train 3								
Planned unavailable hours	0	1.08	0.73	12.72	0.95	10.15	35.80	1.82
Unplanned unavailable hours	0	0	0	0	0	0.18	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.5%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

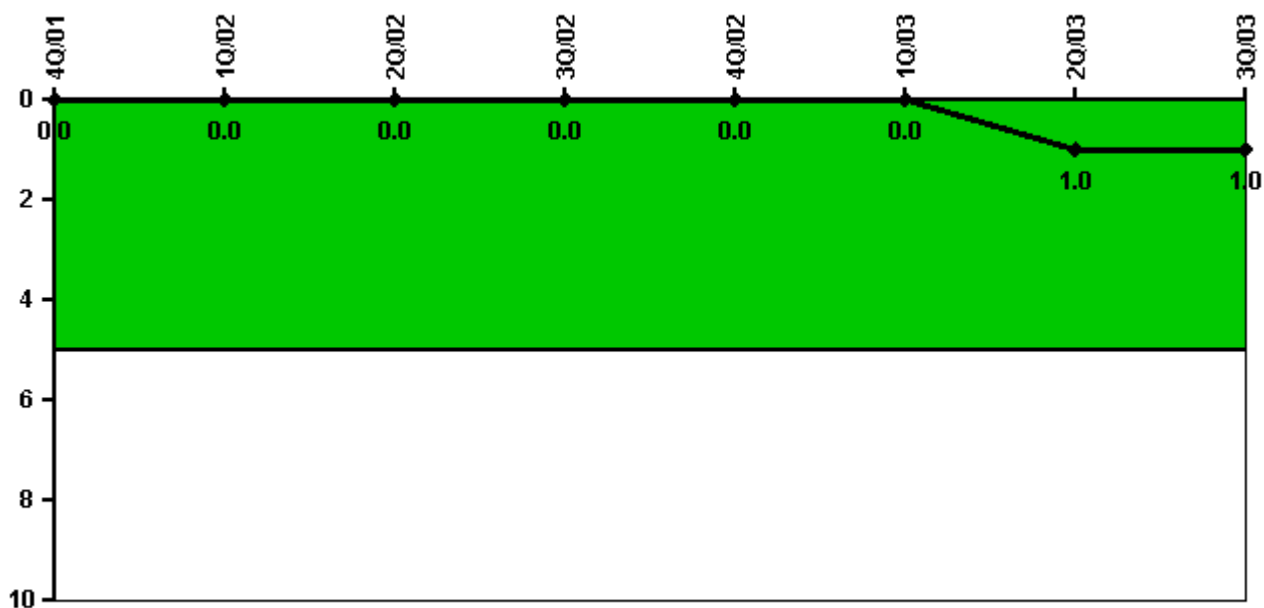
Notes

Safety System Unavailability, Residual Heat Removal System	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0	2.30	0.92	1.01	8.20	17.59	0.90	62.65
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00
Train 2								
Planned unavailable hours	0	0	0.66	0	0	3.38	0	0.05
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00
Train 3								
Planned unavailable hours	1.00	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0.33	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	302.12	0	0	0	364.90	295.68	0
Train 4								

Planned unavailable hours	1.20	0	0	0	0	9.77	0	0
Unplanned unavailable hours	0	0	0	0	0	0.33	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	302.12	0	0	0	364.90	343.66	0
Indicator value	0.4%	0.4%	0.3%	0.3%	0.1%	0.1%	0.1%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)



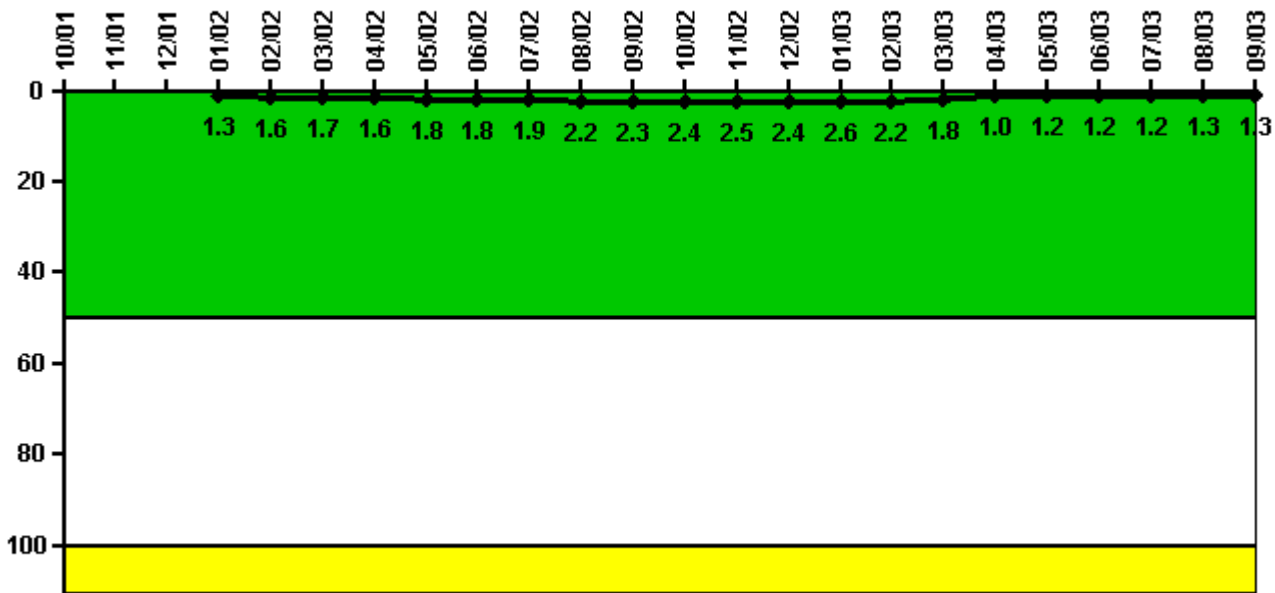
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

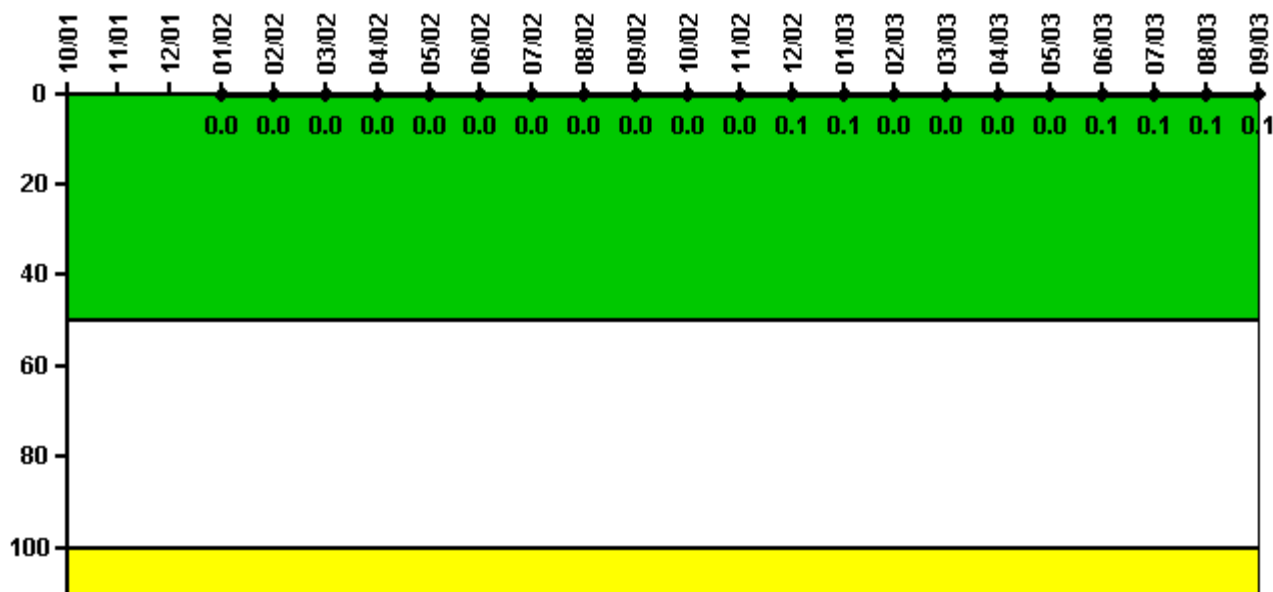
Notes

Reactor Coolant System Activity	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	N/A	N/A	N/A	0.013300	0.016400	0.017300	0.016300	0.018100	0.018100	0.019300	0.021700	0.022700
Technical specification limit	1.0	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	N/A	1.3	1.6	1.7	1.6	1.8	1.8	1.9	2.2	2.3

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	0.023500	0.024700	0.024400	0.026000	0.022200	0.017900	0.009580	0.011800	0.011600	0.012200	0.012800	0.013300
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	2.4	2.5	2.4	2.6	2.2	1.8	1.0	1.2	1.2	1.2	1.3	1.3

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

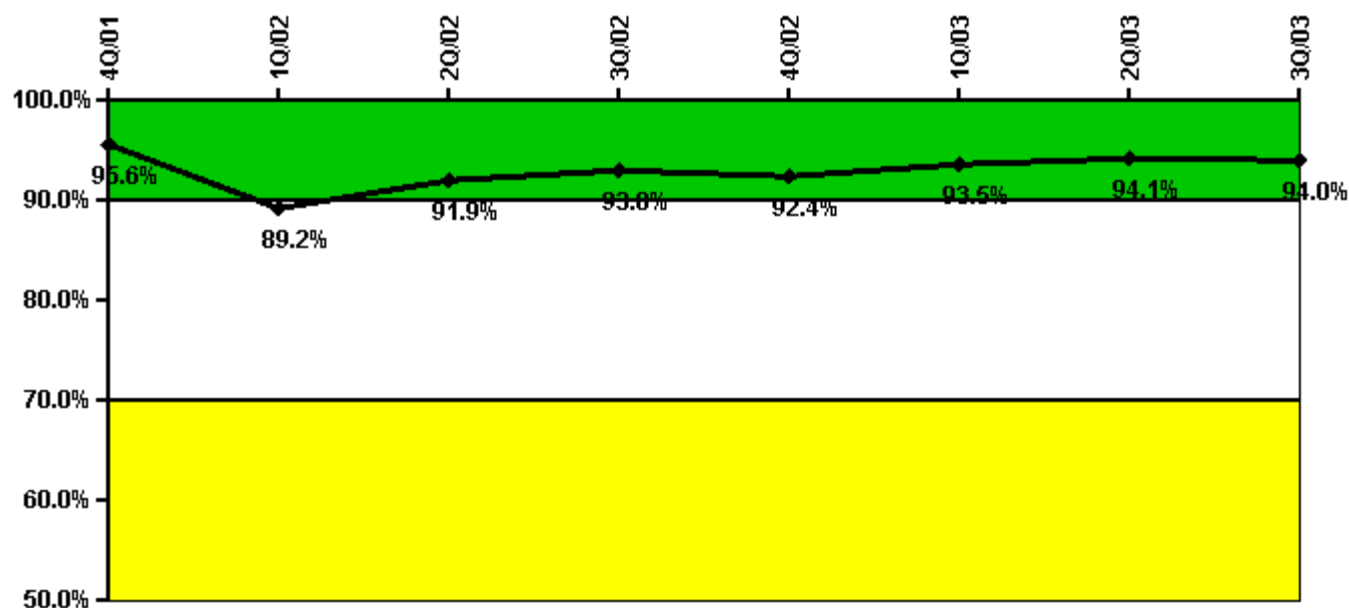
Notes

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	N/A	N/A	N/A	0.003	0	0	0.002	0.002	0.002	0.002	0.002	0.001
Technical specification limit	10.0	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	N/A	N/A	0	0	0	0	0	0	0	0	0

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	0.001	0.001	0.005	0.005	0.001	0.001	0.002	0.002	0.007	0.013	0.013	0.011
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0.1	0.1	0	0	0	0	0.1	0.1	0.1	0.1

Licensee Comments: none

Drill/Exercise Performance



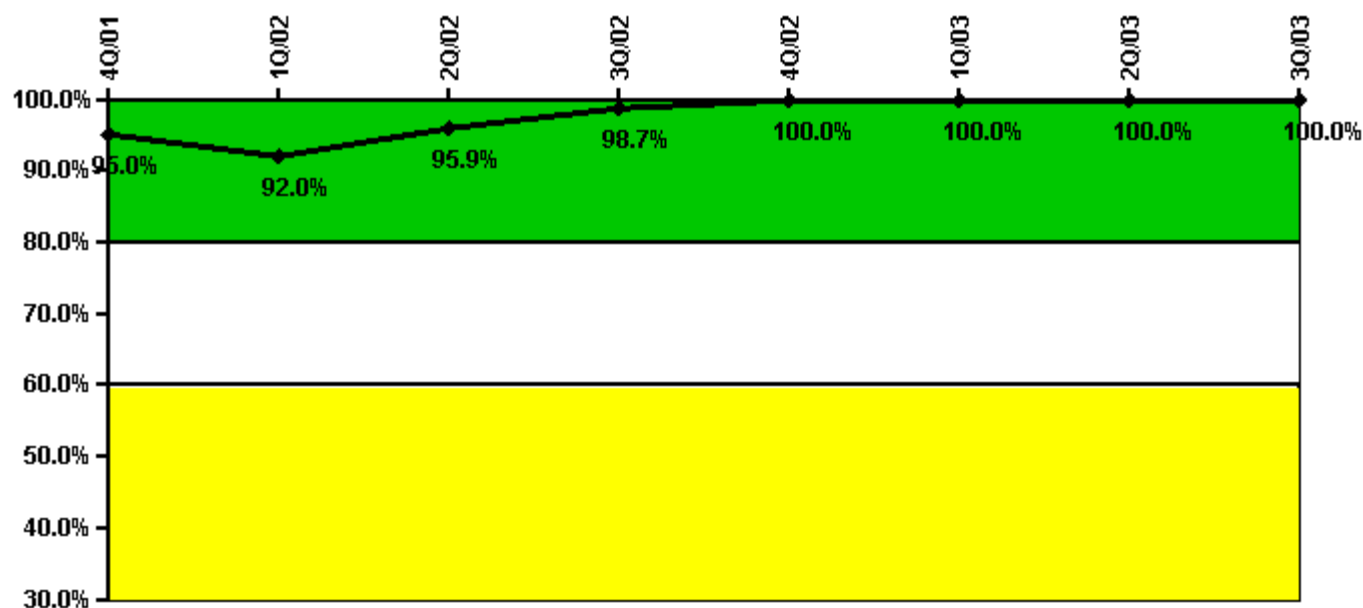
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Successful opportunities	0	15.0	69.0	11.0	24.0	38.0	18.0	44.0
Total opportunities	0	20.0	72.0	11.0	26.0	39.0	18.0	47.0
Indicator value	95.6%	89.2%	91.9%	93.0%	92.4%	93.5%	94.1%	94.0%

Licensee Comments: none

ERO Drill Participation



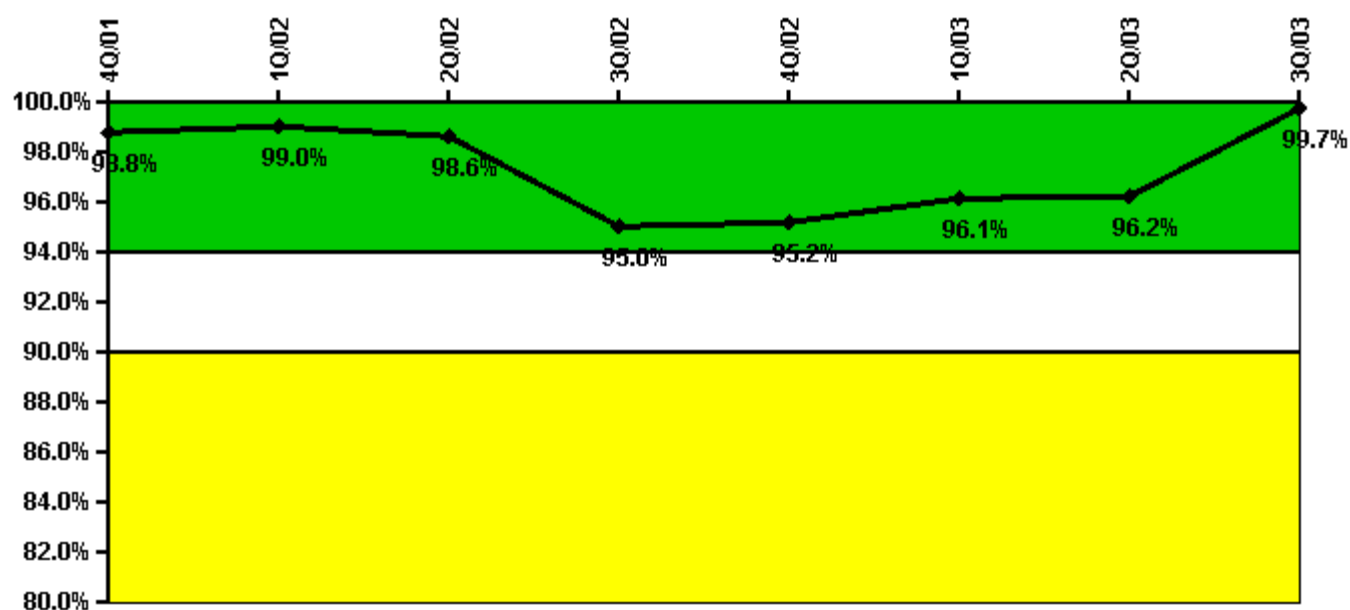
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Participating Key personnel	76.0	69.0	71.0	74.0	76.0	75.0	72.0	75.0
Total Key personnel	80.0	75.0	74.0	75.0	76.0	75.0	72.0	75.0
Indicator value	95.0%	92.0%	95.9%	98.7%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



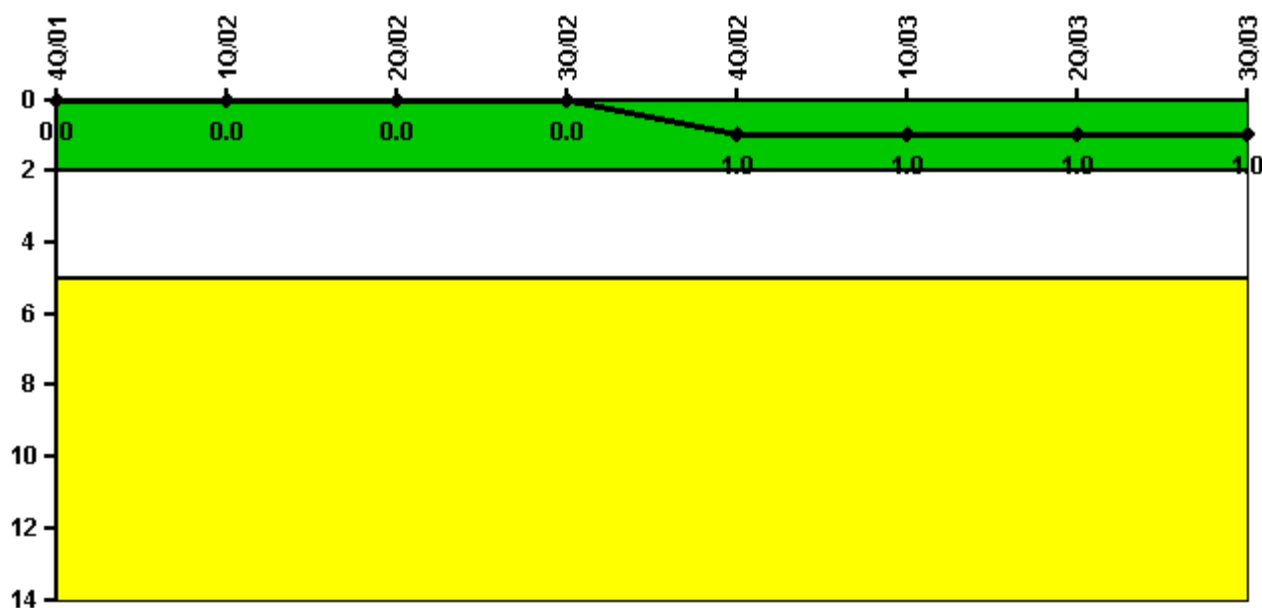
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Successful siren-tests	250	251	247	210	252	486	182	183
Total sirens-tests	252	252	252	252	252	488	183	183
Indicator value	98.8%	99.0%	98.6%	95.0%	95.2%	96.1%	96.2%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness

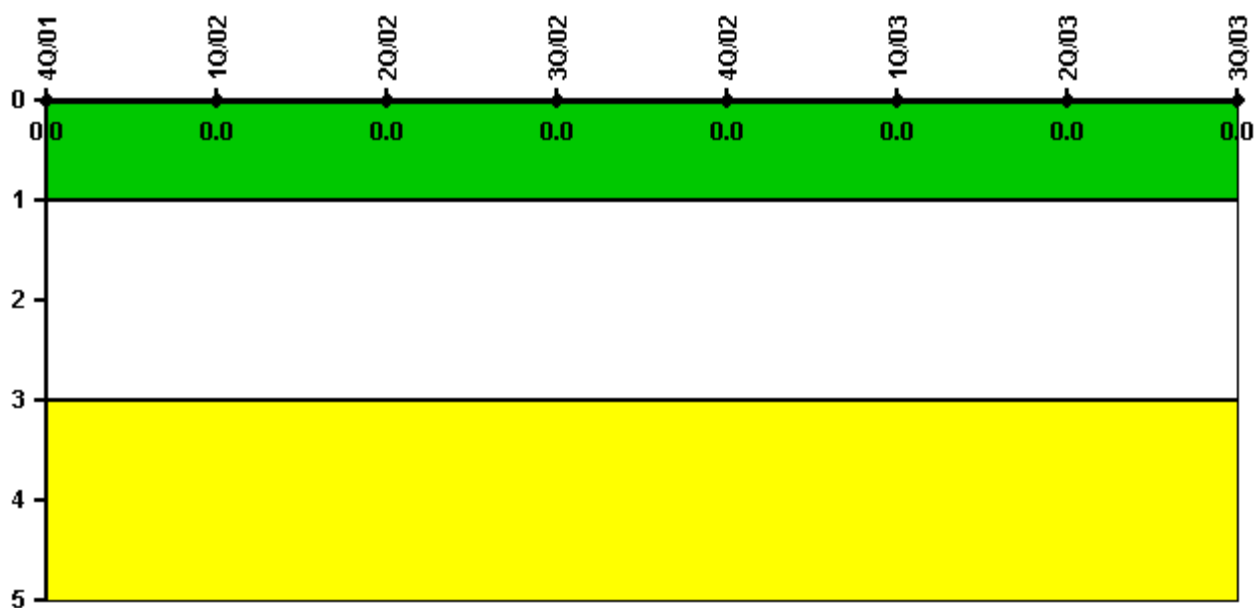


Thresholds: White > 2.0 Yellow > 5.0

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

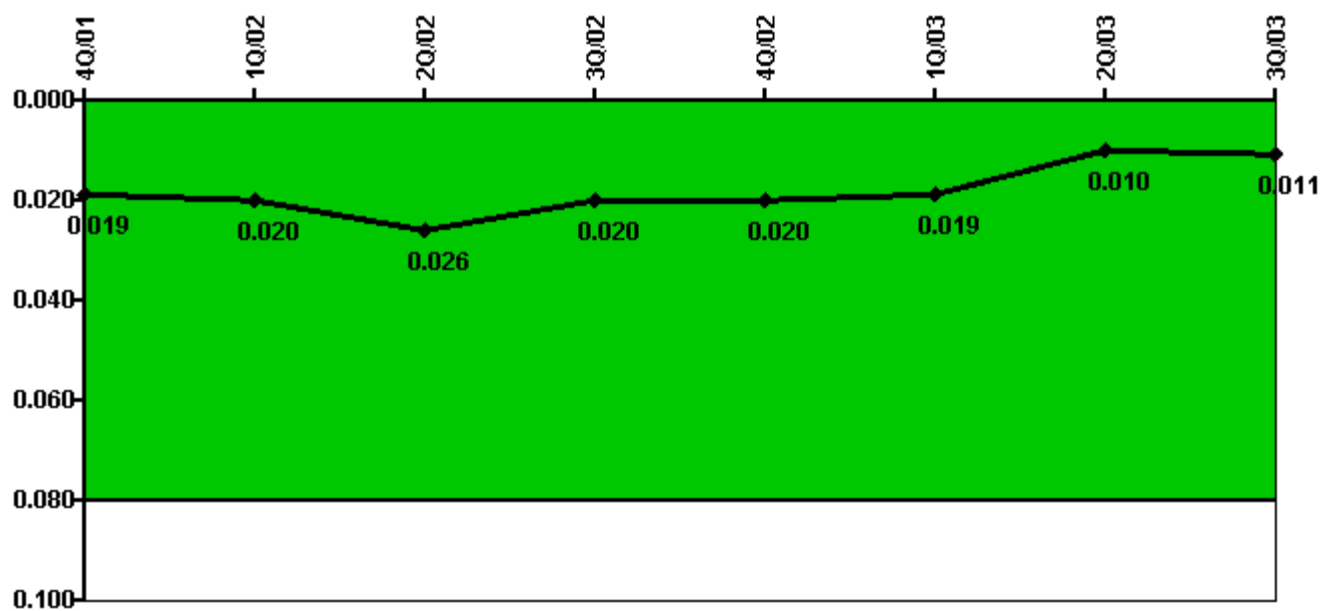
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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



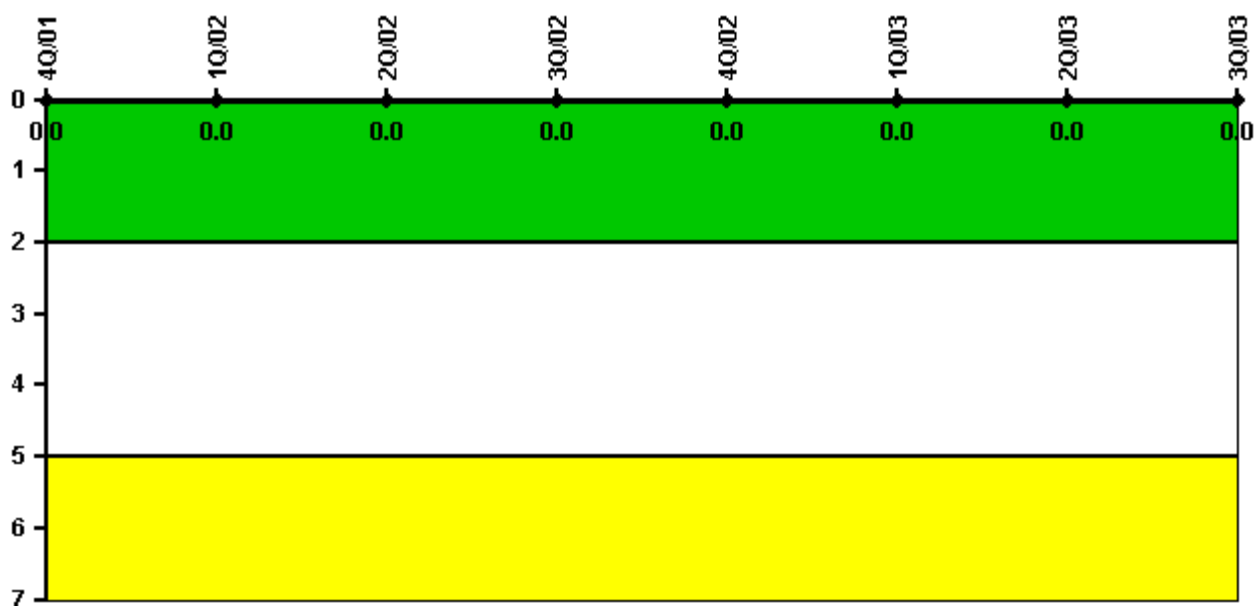
Thresholds: White > 0.080

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	136.99	74.69	279.20	22.20	137.42	35.02	53.18	63.92
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.019	0.020	0.026	0.020	0.020	0.019	0.010	0.011

Licensee Comments: none

Personnel Screening Program



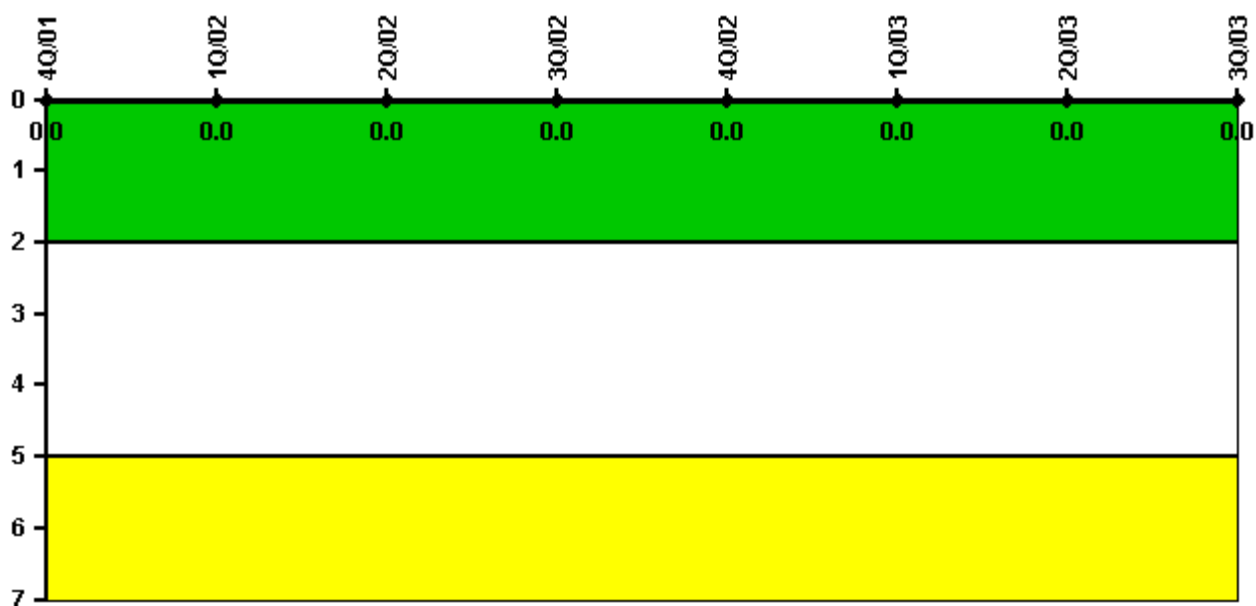
Thresholds: White > 2.0 Yellow > 5.0

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](#)

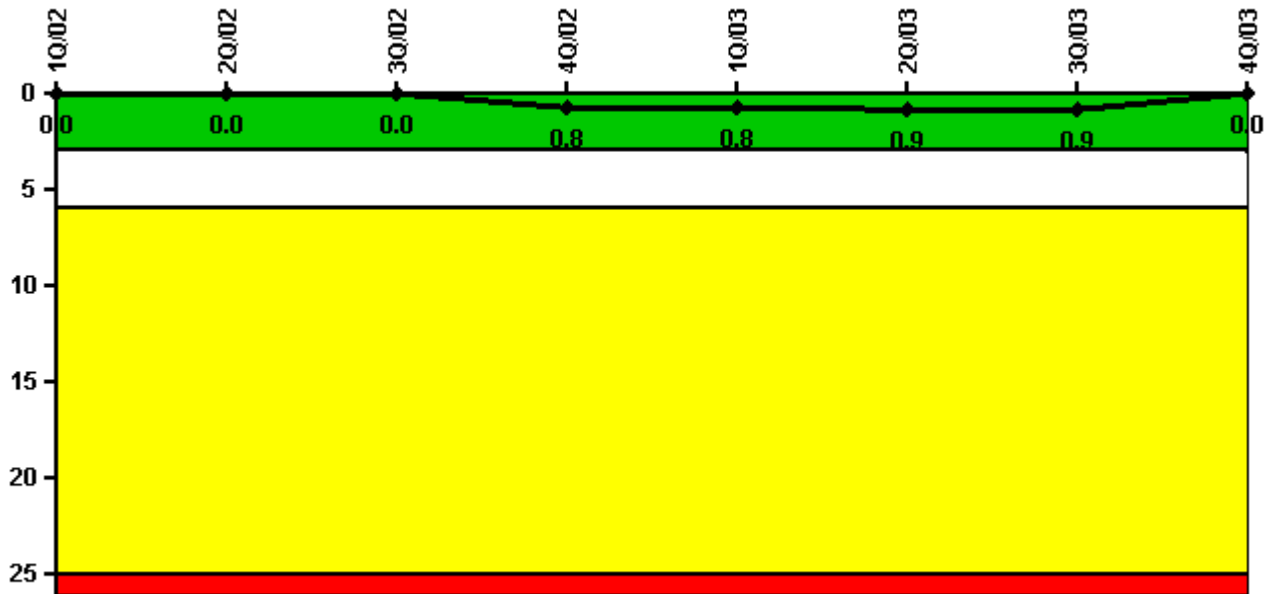
Last Modified: October 22, 2003

Palisades

4Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



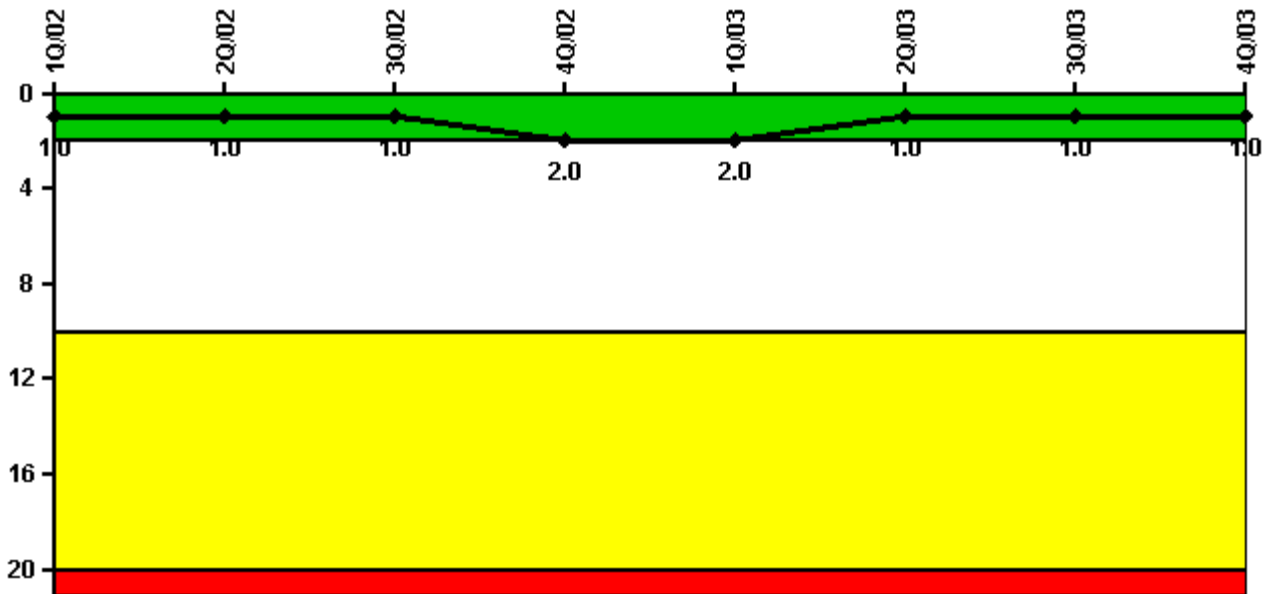
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0
Critical hours	1768.4	2183.0	2208.0	2142.1	1782.4	1743.9	2208.0	2209.0
Indicator value	0	0	0	0.8	0.8	0.9	0.9	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



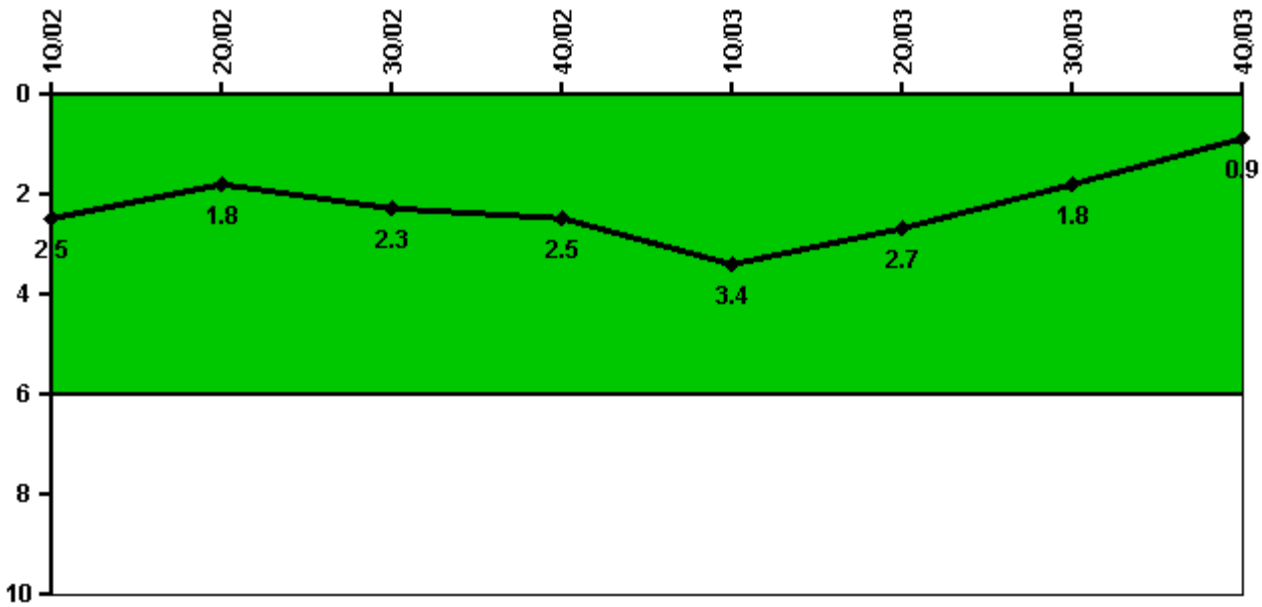
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



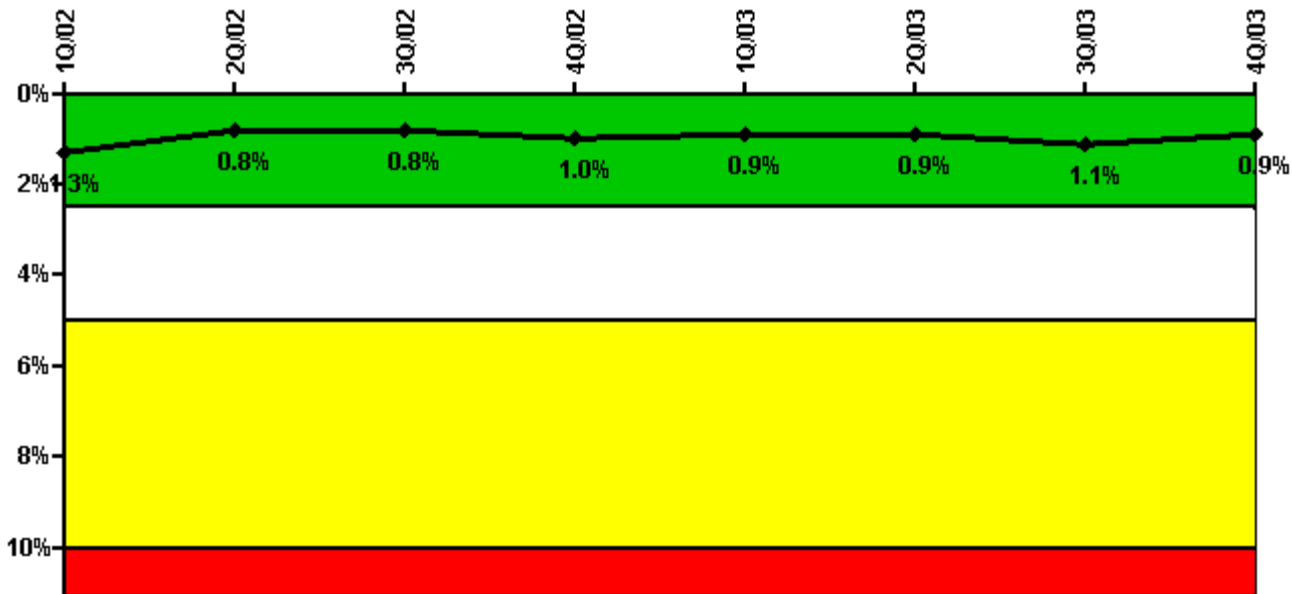
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned power changes	0	1.0	1.0	1.0	1.0	0	0	0
Critical hours	1768.4	2183.0	2208.0	2142.1	1782.4	1743.9	2208.0	2209.0
Indicator value	2.5	1.8	2.3	2.5	3.4	2.7	1.8	0.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

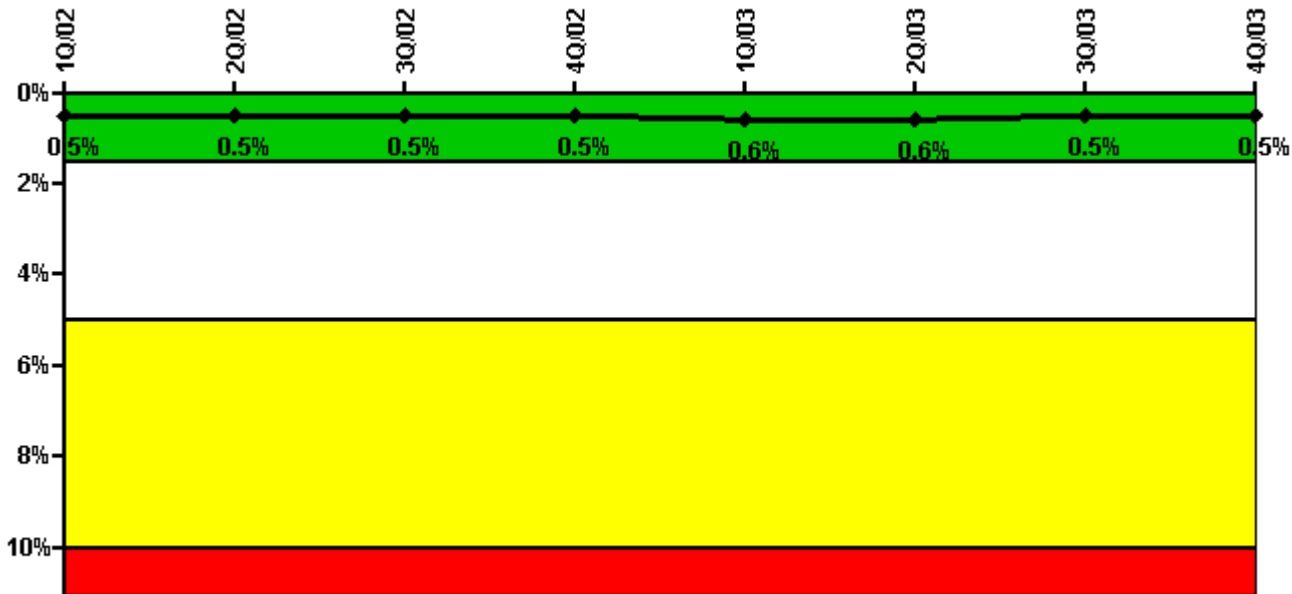
Notes

Safety System Unavailability, Emergency AC Power	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	0.57	47.22	3.75	64.58	7.33	12.80	33.60	0.64
Unplanned unavailable hours	0	0	5.72	5.07	5.57	0	11.20	46.35
Fault exposure hours	0	0	4.57	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0.99	0.57	3.23	84.63	2.67	17.57	42.75	0.47
Unplanned unavailable hours	6.18	0	32.32	0	15.77	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	1.3%	0.8%	0.8%	1.0%	0.9%	0.9%	1.1%	0.9%

Licensee Comments:

4Q/03: Train 1, Diesel Generator, DG 1-1, Cylinder 1R fuel tube clamping stud was discovered broken on 12/7/2003 at 22:34. The broken stud is one of two clamping studs that secure a fuel tube to the fuel injector. The broken stud was identified after the engine was shut down following a successful monthly surveillance test. The stud is believed to have broken some time during the last hour of the surveillance test. Since the time of failure was not known with certainty T/2 Fault Exposure hours are added to the comment section only. T/2 Fault Exposure Hours are reported for the time between the completion of previous Surveillance Test on 11/12/03 at 2:38 until discovery of stud failure on 12/7/03 at 22:34. This is 25 days 19.93 hours. T/2 Fault exposure = 620 hours / 2 = 310 hours.

Safety System Unavailability, High Pressure Injection System (HPSI)



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

Notes

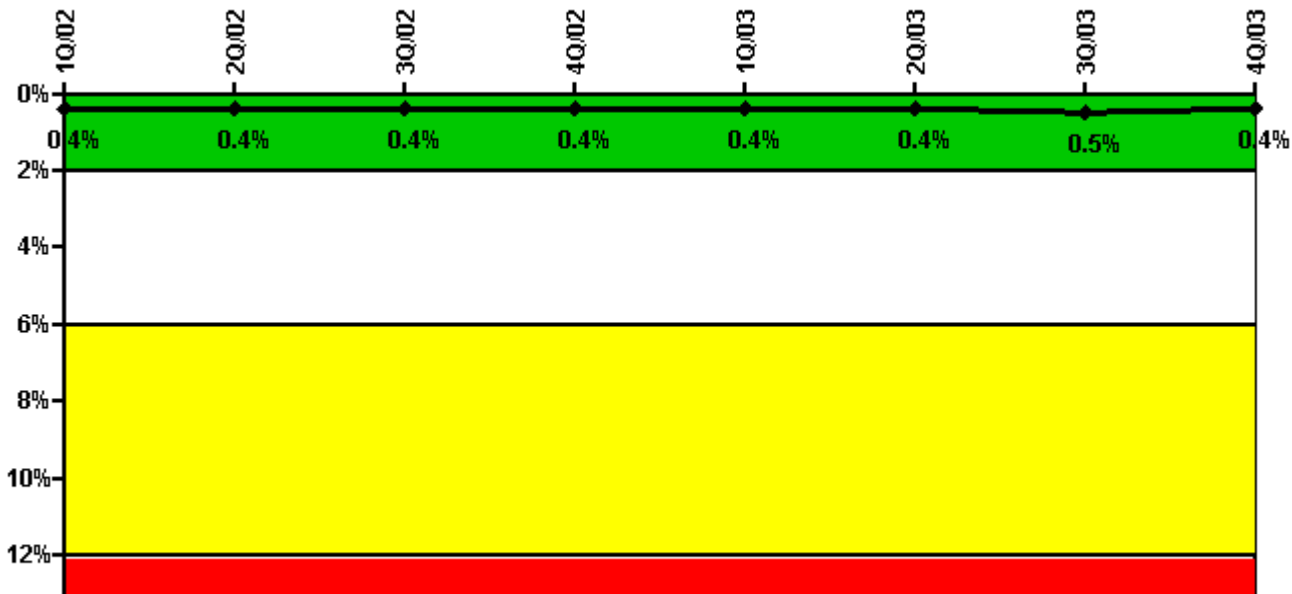
Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	10.93	0	6.06	0.68	18.96	12.78	0	8.08
Unplanned unavailable hours	8.72	0	0	18.22	0	0	0	4.25
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00	2209.00
Train 2								
Planned unavailable hours	12.58	23.08	0.37	4.22	6.29	0	2.40	0.47
Unplanned unavailable hours	0	0	0	0	0	0	43.57	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00	2209.00
Indicator value	0.5%	0.5%	0.5%	0.5%	0.6%	0.6%	0.5%	0.5%

Licensee Comments:

3Q/03: HPSI train 1, HPSI pump, P-66B sub-cooling valve CV-3070 failed to open on 8/10/2003. The time of

failure was not known with certainty. T/2 Fault Exposure Hours are associated with this failure. T/2 Fault Exposure hours are calculated as follows: The failure of CV-3070 to open occurred on 8/10/03 at 1930 hours. This was 83 days, 22 hours, 28 minutes after the last recorded successful operation. This is equivalent to 2,014.47 hours. Dividing these hours by 2 results in a total of 1,007.2 hours. T/2 Fault Exposure hours = 1,007.2 hours.

Safety System Unavailability, Heat Removal System (AFW)



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

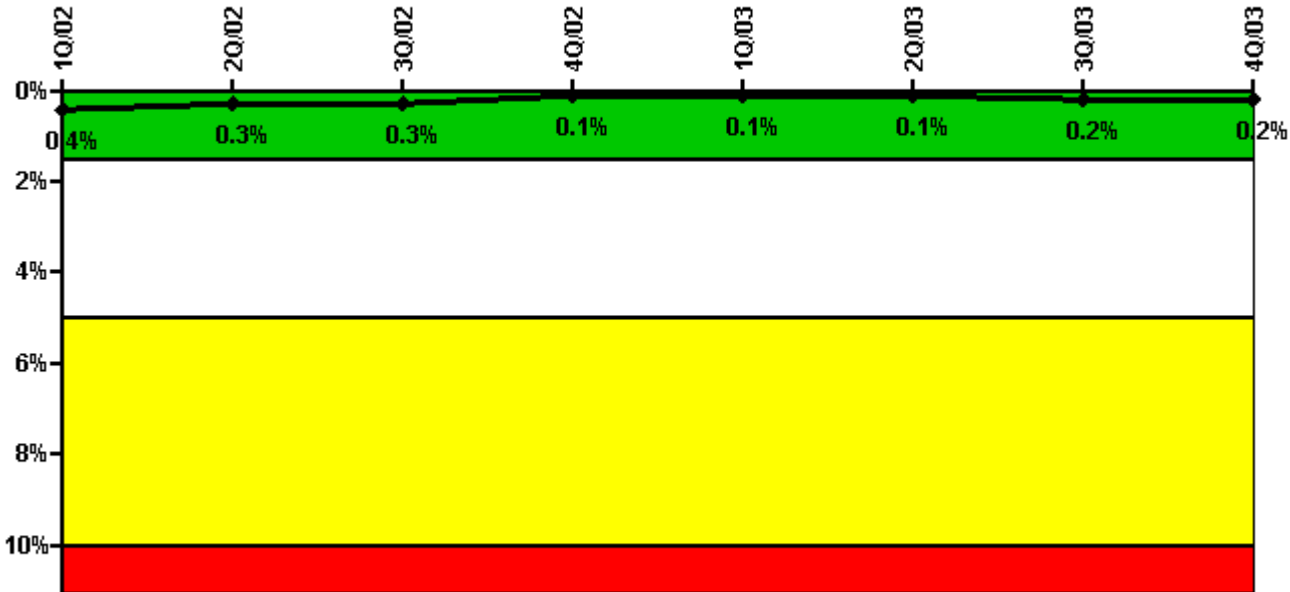
Notes

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	4.40	2.48	6.18	5.38	1.42	1.27	25.78	2.01
Unplanned unavailable hours	0	0	0	0	0.32	0	25.37	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00	2209.00
Train 2								
Planned unavailable hours	1.22	3.55	6.18	2.06	1.88	15.51	18.57	2.05
Unplanned unavailable hours	0	0	0	0	0.32	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1768.40	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00	2209.00
Train 3								

Planned unavailable hours	1.08	0.73	12.72	0.95	10.15	35.80	1.82	15.91
Unplanned unavailable hours	0	0	0	0	0.18	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00	2209.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.5%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

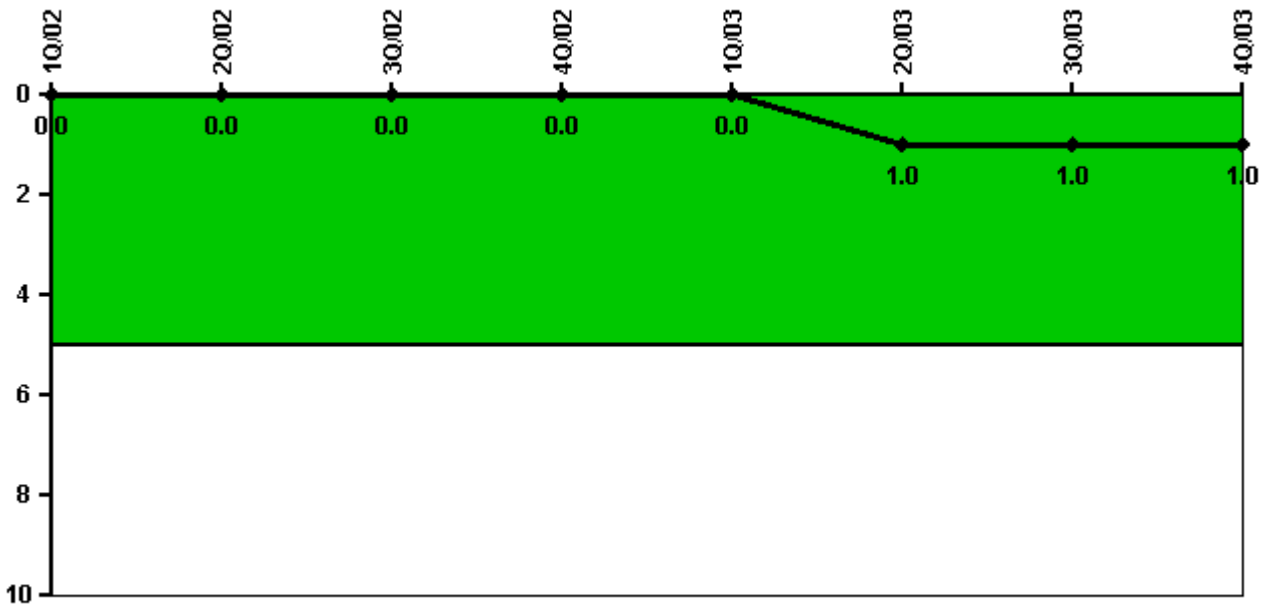
Notes

Safety System Unavailability, Residual Heat Removal System	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	2.30	0.92	1.01	8.20	17.59	0.90	62.65	3.65
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00	2209.00
Train 2								
Planned unavailable hours	0	0.66	0	0	3.38	0	0.05	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	1851.33	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0.33	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	302.12	0	0	0	364.90	295.68	0	0
Train 4								
Planned unavailable hours	0	0	0	0	9.77	0	0	0
Unplanned unavailable hours	0	0	0	0	0.33	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	302.12	0	0	0	364.90	343.66	0	0
Indicator value	0.4%	0.3%	0.3%	0.1%	0.1%	0.1%	0.2%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)



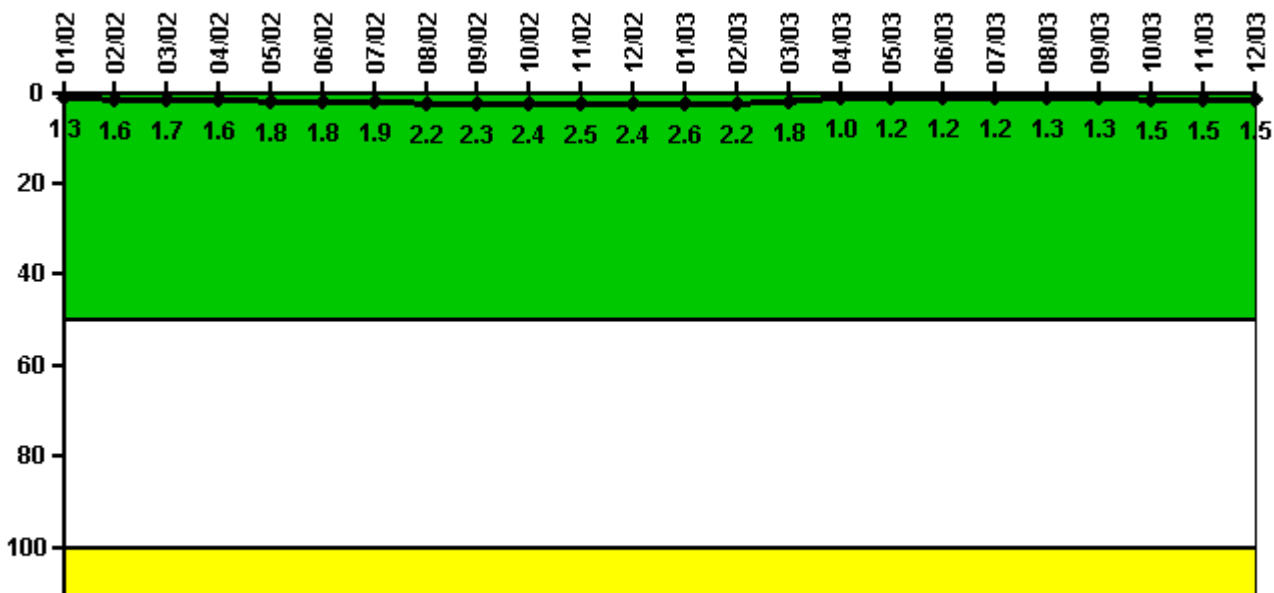
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

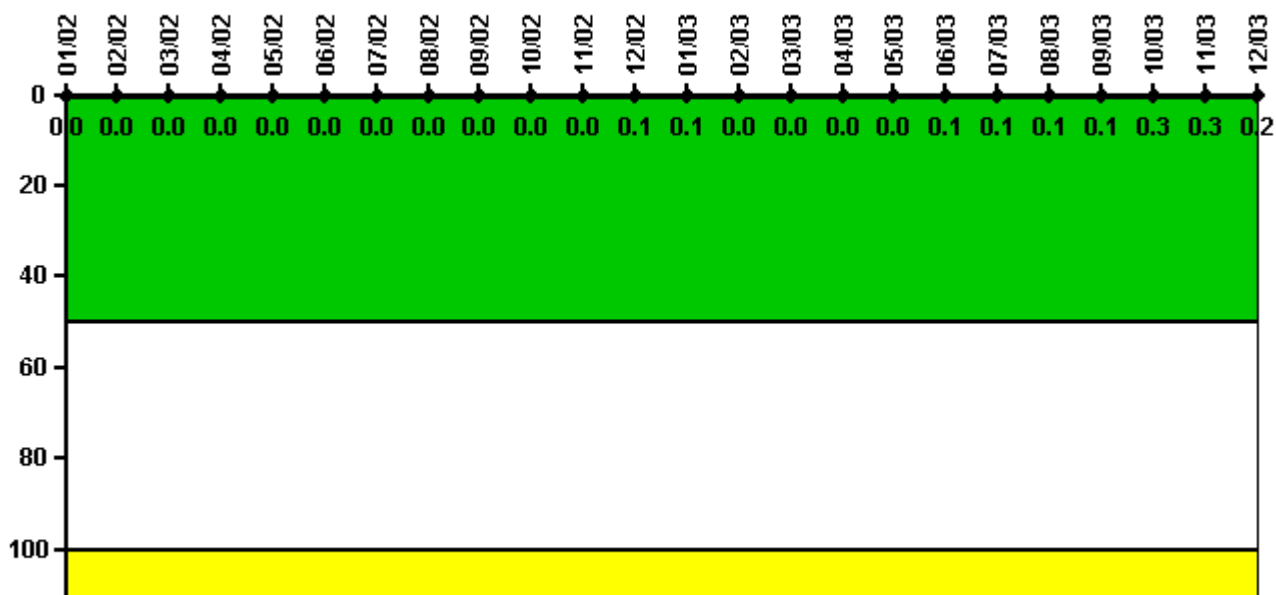
Notes

Reactor Coolant System Activity	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	0.013300	0.016400	0.017300	0.016300	0.018100	0.018100	0.019300	0.021700	0.022700	0.023500	0.024700	0.024400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.3	1.6	1.7	1.6	1.8	1.8	1.9	2.2	2.3	2.4	2.5	2.4

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	0.026000	0.022200	0.017900	0.009580	0.011800	0.011600	0.012200	0.012800	0.013300	0.014600	0.014900	0.015400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	2.6	2.2	1.8	1.0	1.2	1.2	1.2	1.3	1.3	1.5	1.5	1.5

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

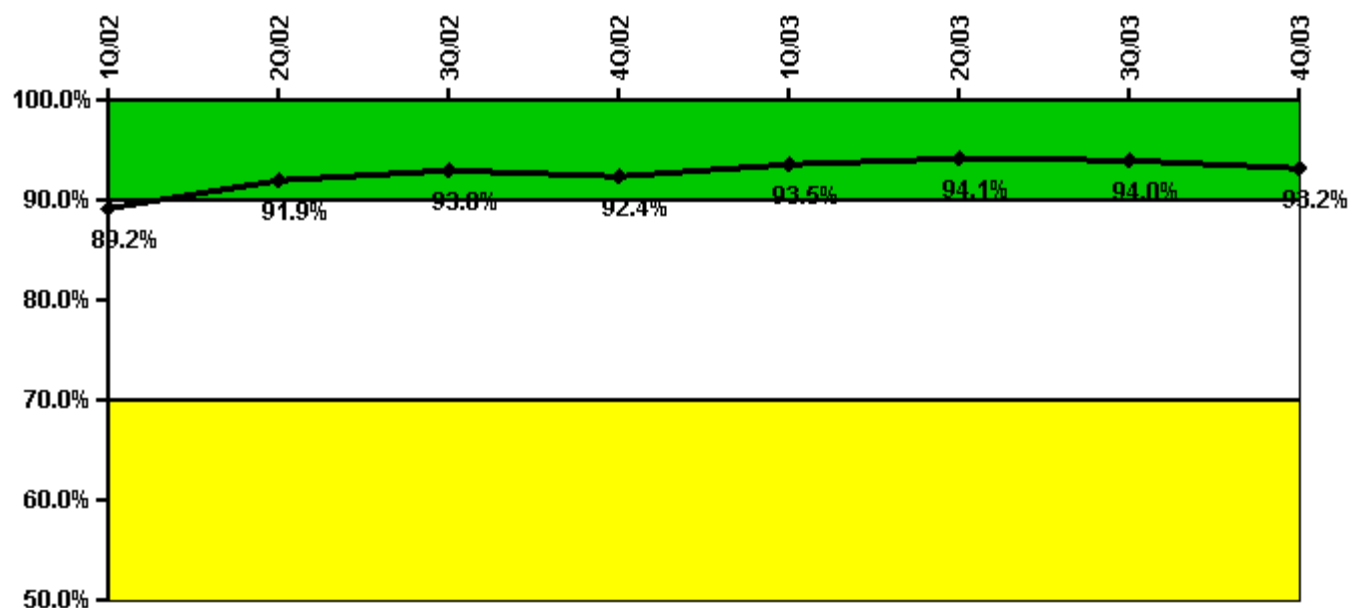
Notes

Reactor Coolant System Leakage	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum leakage	0.003	0	0	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.005
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0.1

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	0.005	0.001	0.001	0.002	0.002	0.007	0.013	0.013	0.011	0.029	0.026	0.018
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	0	0	0	0	0.1	0.1	0.1	0.1	0.3	0.3	0.2

Licensee Comments: none

Drill/Exercise Performance



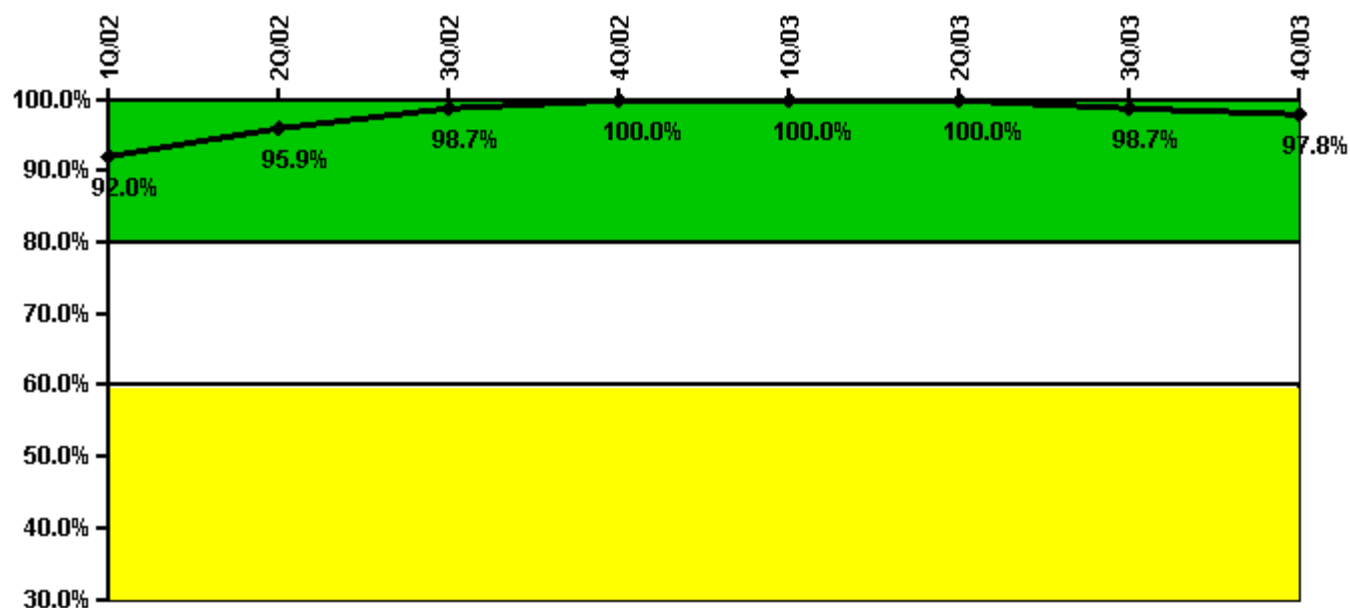
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Successful opportunities	15.0	69.0	11.0	24.0	38.0	18.0	44.0	28.0
Total opportunities	20.0	72.0	11.0	26.0	39.0	18.0	47.0	32.0
Indicator value	89.2%	91.9%	93.0%	92.4%	93.5%	94.1%	94.0%	93.2%

Licensee Comments: none

ERO Drill Participation



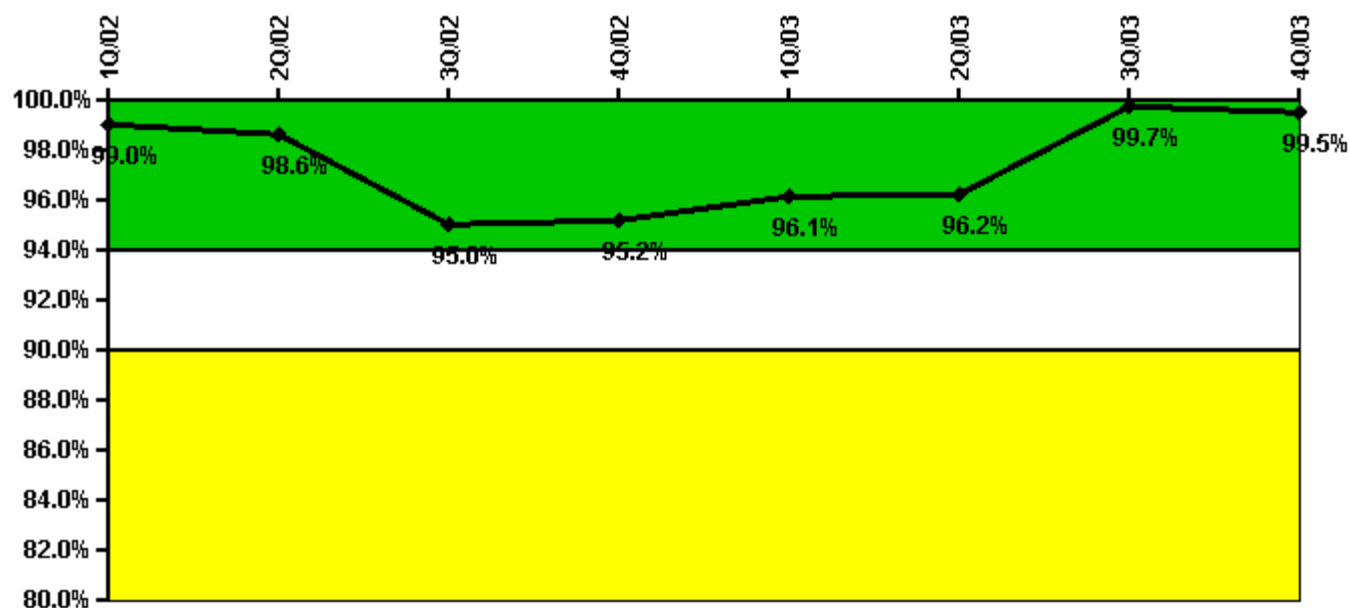
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Participating Key personnel	69.0	71.0	74.0	76.0	75.0	72.0	74.0	90.0
Total Key personnel	75.0	74.0	75.0	76.0	75.0	72.0	75.0	92.0
Indicator value	92.0%	95.9%	98.7%	100.0%	100.0%	100.0%	98.7%	97.8%

Licensee Comments: none

Alert & Notification System



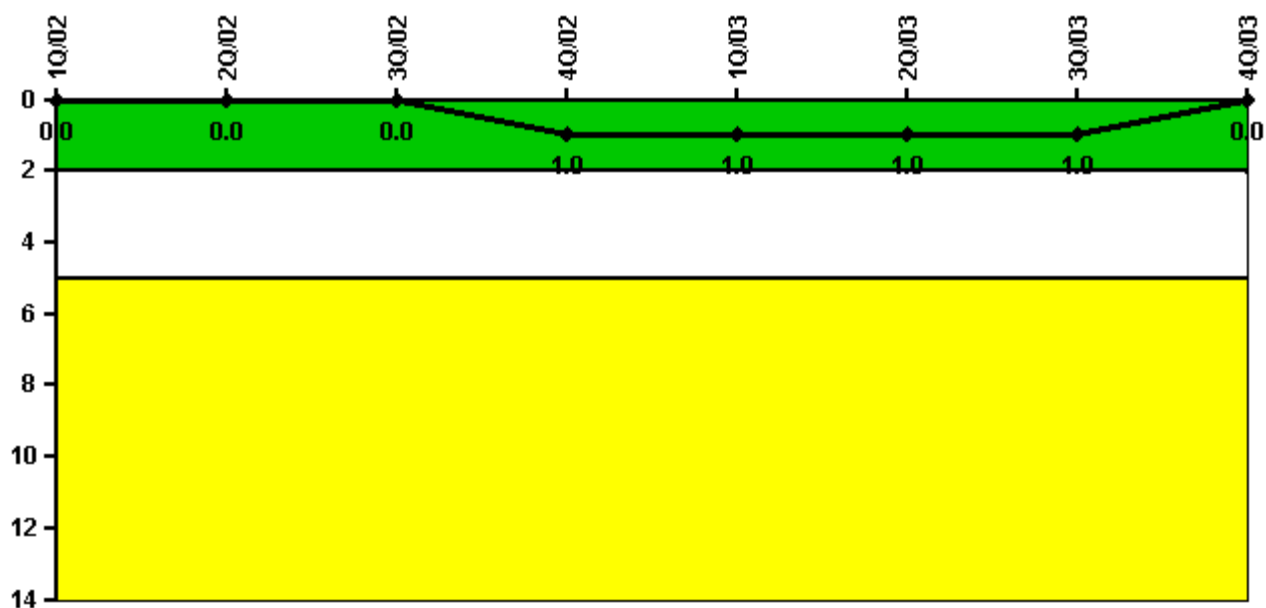
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Successful siren-tests	251	247	210	252	486	182	183	181
Total sirens-tests	252	252	252	252	488	183	183	183
Indicator value	99.0%	98.6%	95.0%	95.2%	96.1%	96.2%	99.7%	99.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness

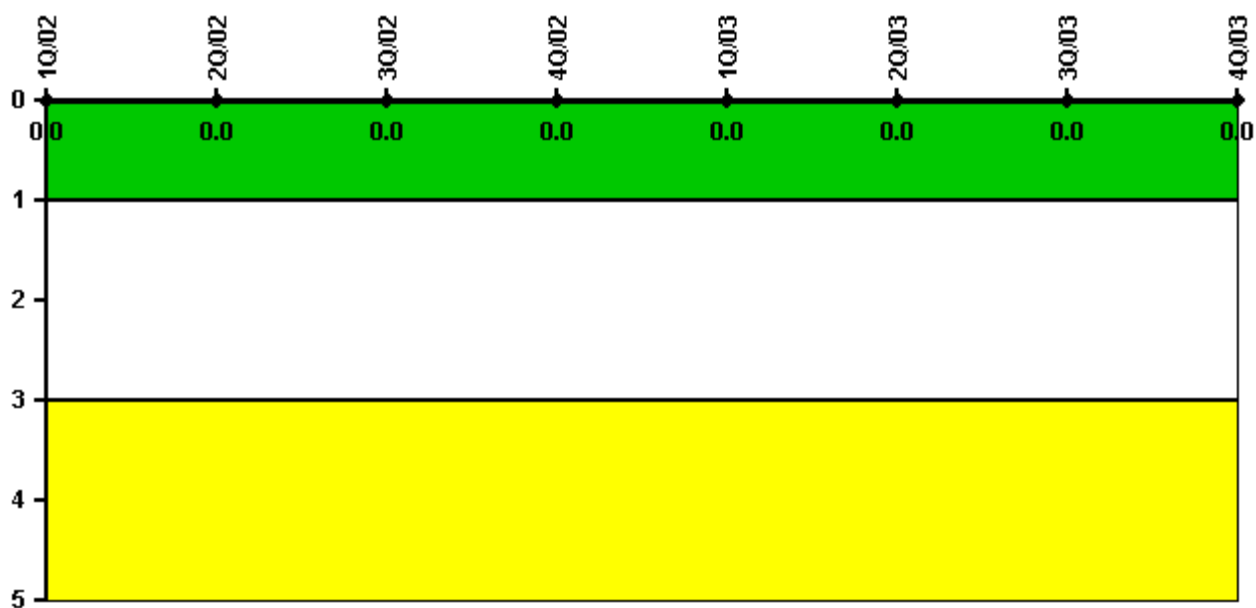


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

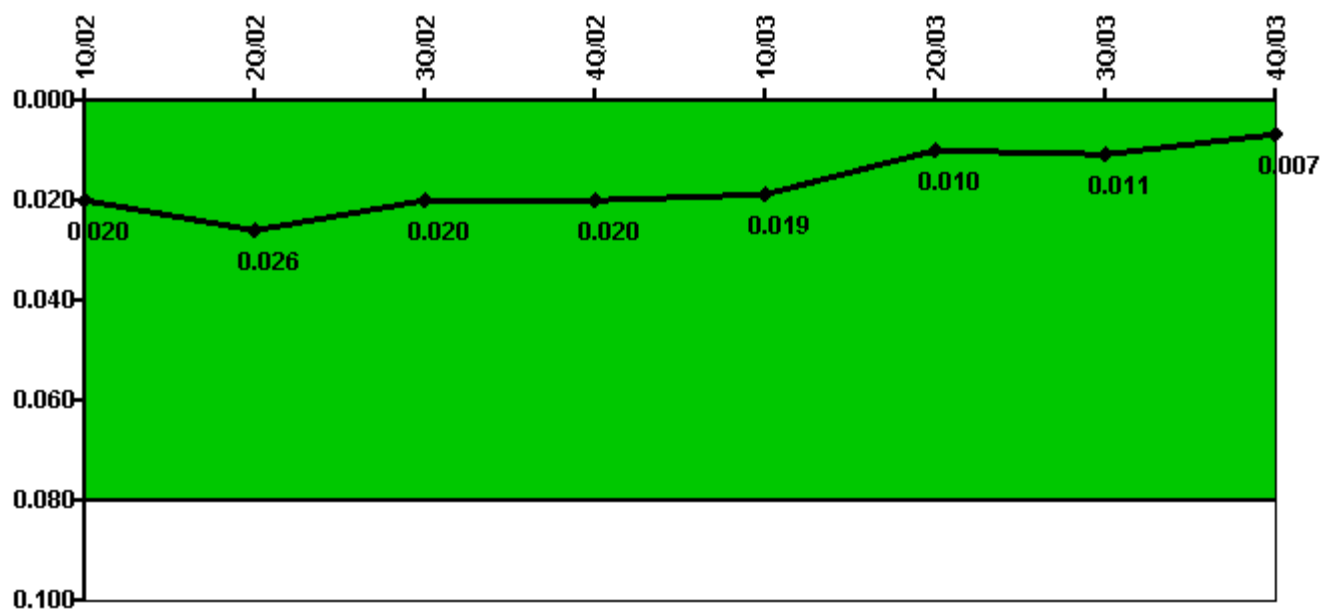
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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



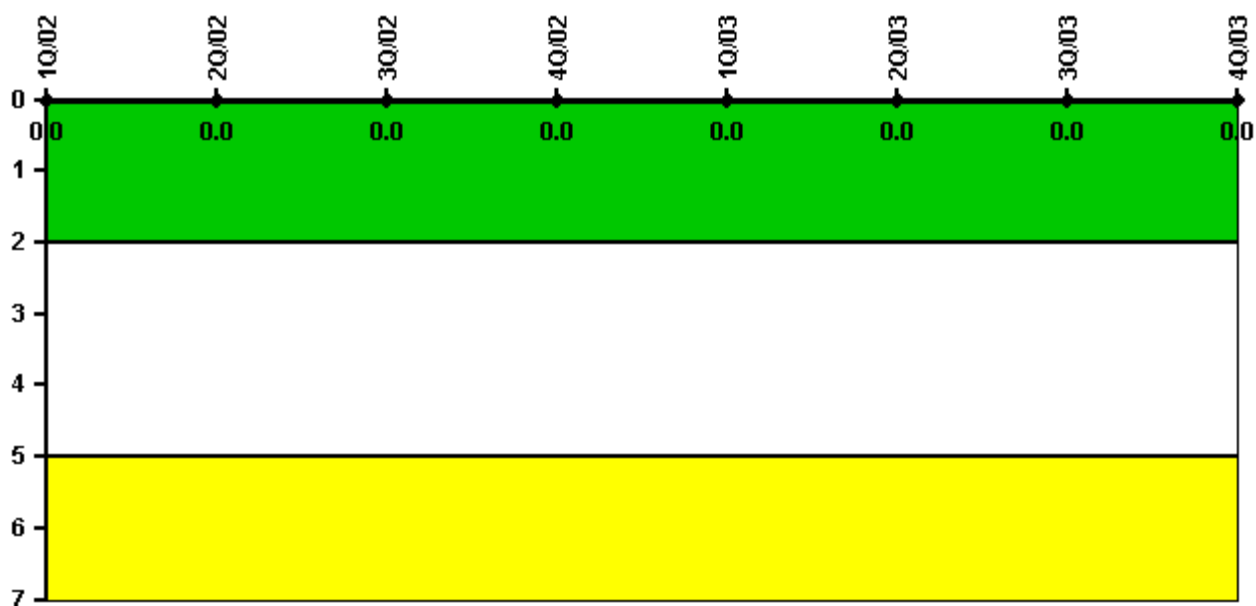
Thresholds: White > 0.080

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	74.69	279.20	22.20	137.42	35.02	53.18	63.92	37.83
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.020	0.026	0.020	0.020	0.019	0.010	0.011	0.007

Licensee Comments: none

Personnel Screening Program



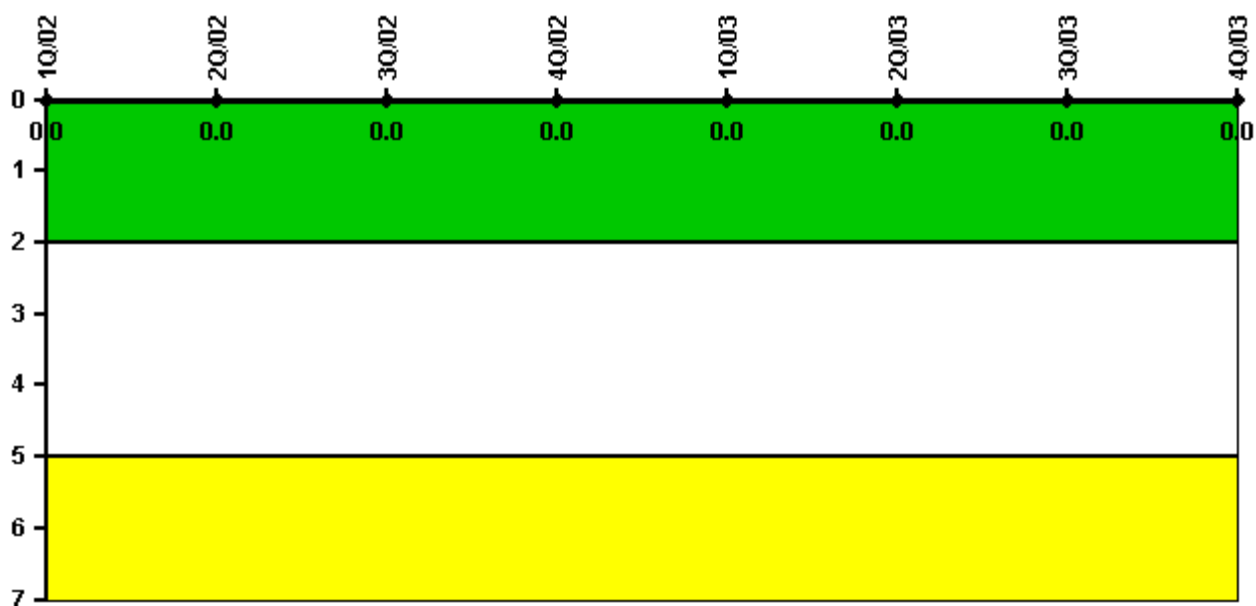
Thresholds: White > 2.0 Yellow > 5.0

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](#)

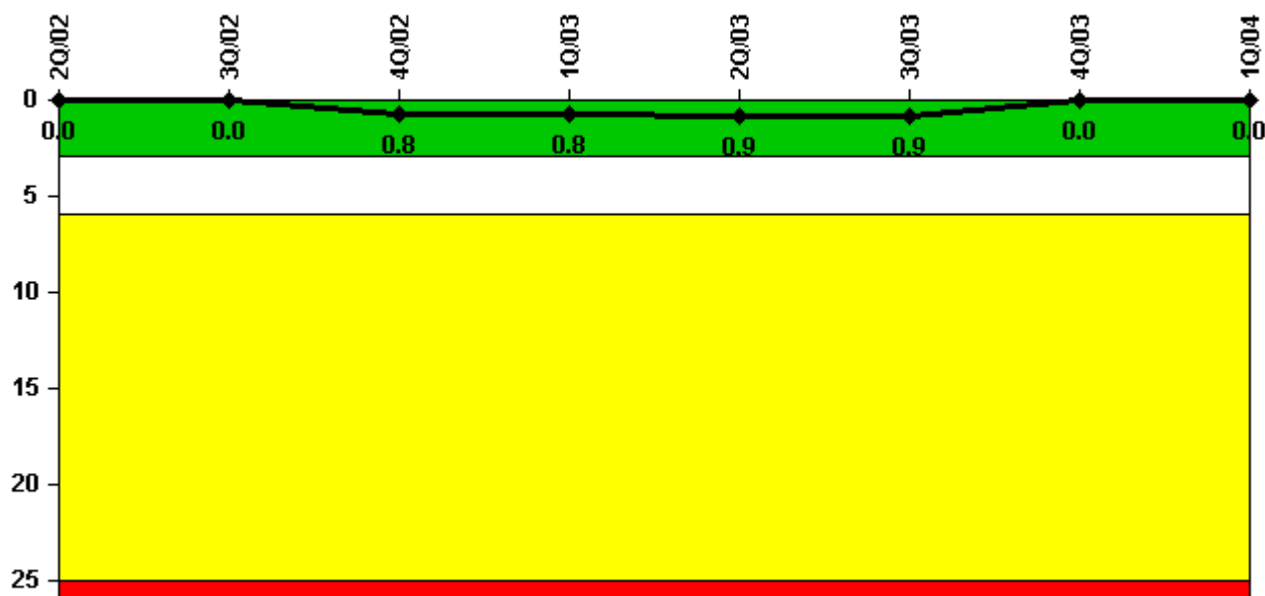
Last Modified: January 23, 2004

Palisades

1Q/2004 Performance Indicators

Licensee's General Comments: Data submitted for 4th quarter 2003 was missing one opportunity and one success.

Unplanned Scrams per 7000 Critical Hrs



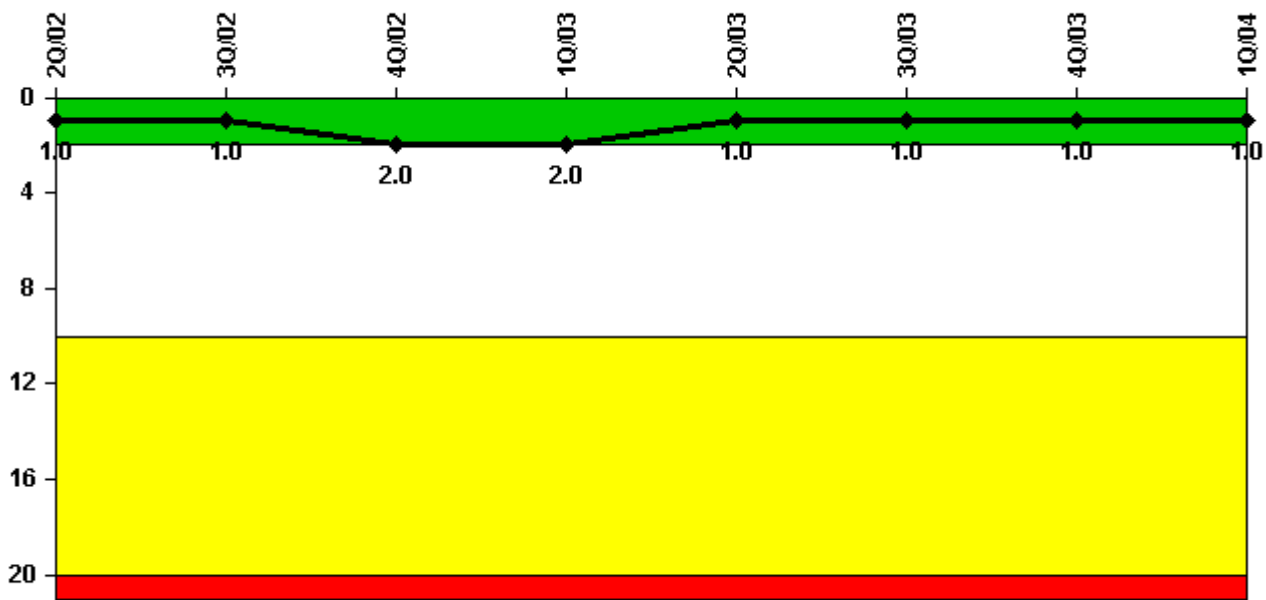
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	0
Critical hours	2183.0	2208.0	2142.1	1782.4	1743.9	2208.0	2209.0	2184.0
Indicator value	0	0	0.8	0.8	0.9	0.9	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



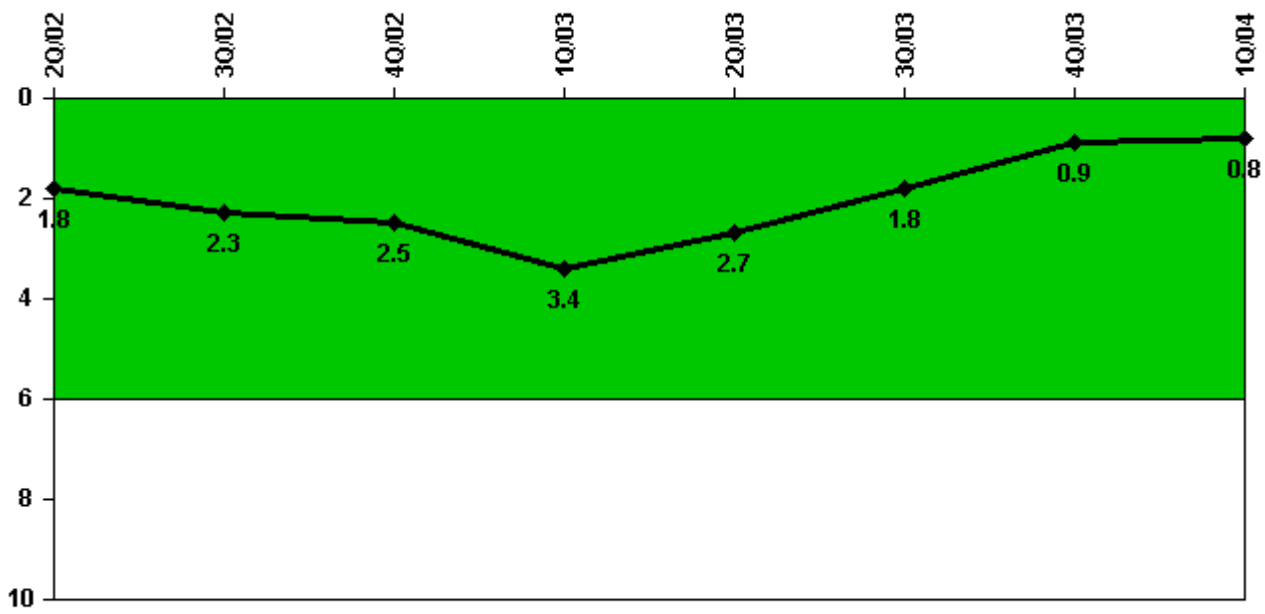
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



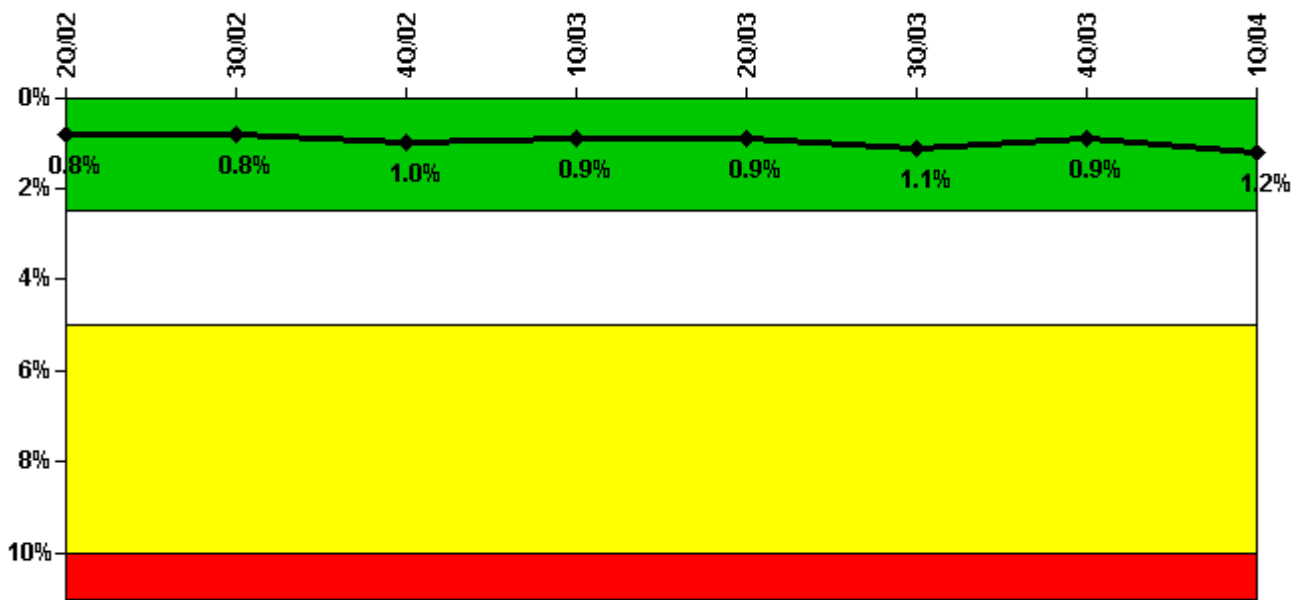
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned power changes	1.0	1.0	1.0	1.0	0	0	0	1.0
Critical hours	2183.0	2208.0	2142.1	1782.4	1743.9	2208.0	2209.0	2184.0
Indicator value	1.8	2.3	2.5	3.4	2.7	1.8	0.9	0.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

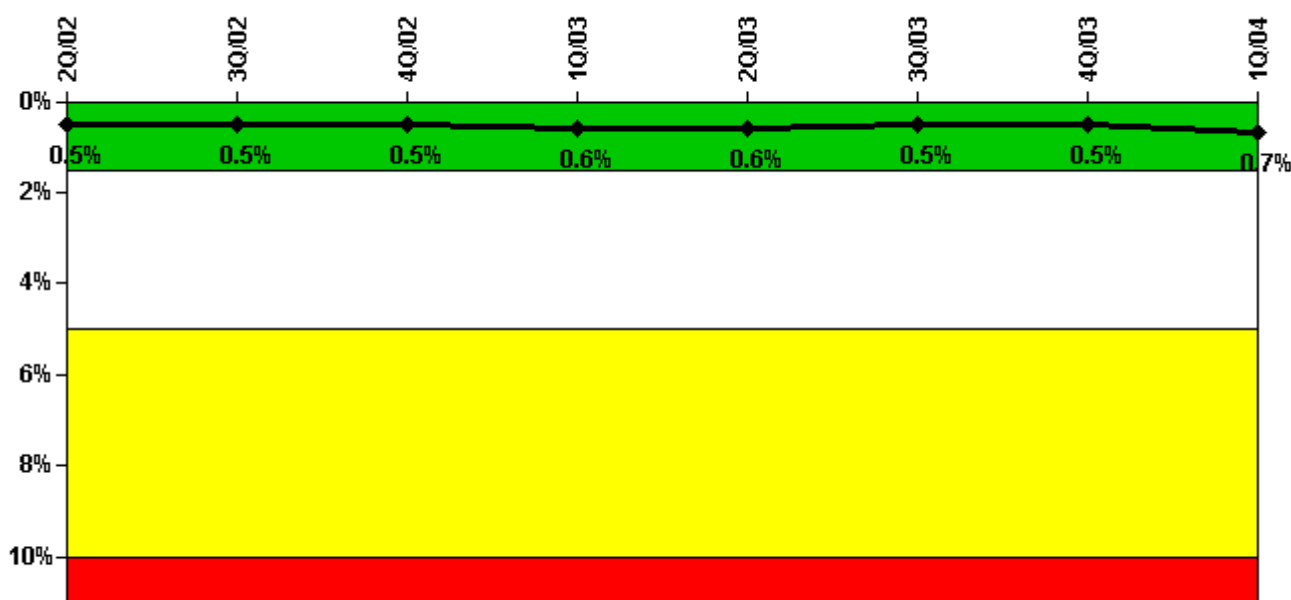
Notes

Safety System Unavailability, Emergency AC Power	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	47.22	3.75	64.58	7.33	12.80	33.60	0.64	104.05
Unplanned unavailable hours	0	5.72	5.07	5.57	0	11.20	46.35	0
Fault exposure hours	0	4.57	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	0.57	3.23	84.63	2.67	17.57	42.75	0.47	0.96
Unplanned unavailable hours	0	32.32	0	15.77	0	0	0	48.40
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value	0.8%	0.8%	1.0%	0.9%	0.9%	1.1%	0.9%	1.2%

Licensee Comments:

1Q/04: 262 hours of T/2 fault exposure hours is reported from the time of completion of the February surveillance test on 2/24/2004 to the time of discovery on 3/17/2004. Train 2 was shutdown during a surveillance test because of a failure that would have prevented the EDG from satisfying the surveillance criteria.

Safety System Unavailability, High Pressure Injection System (HPSI)



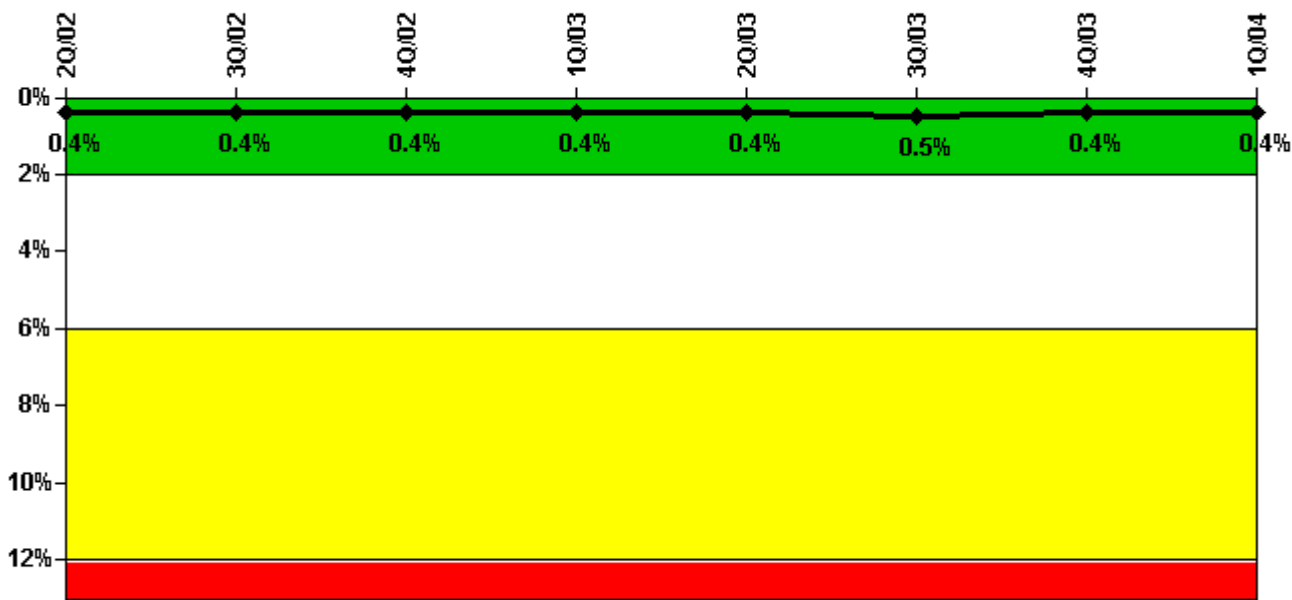
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	6.06	0.68	18.96	12.78	0	8.08	46.50
Unplanned unavailable hours	0	0	18.22	0	0	0	4.25	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	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	23.08	0.37	4.22	6.29	0	2.40	0.47	30.65
Unplanned unavailable hours	0	0	0	0	0	43.57	0	0
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	1795.10	1777.52	2208.00	2209.00	2184.00
Indicator value	0.5%	0.5%	0.5%	0.6%	0.6%	0.5%	0.5%	0.7%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



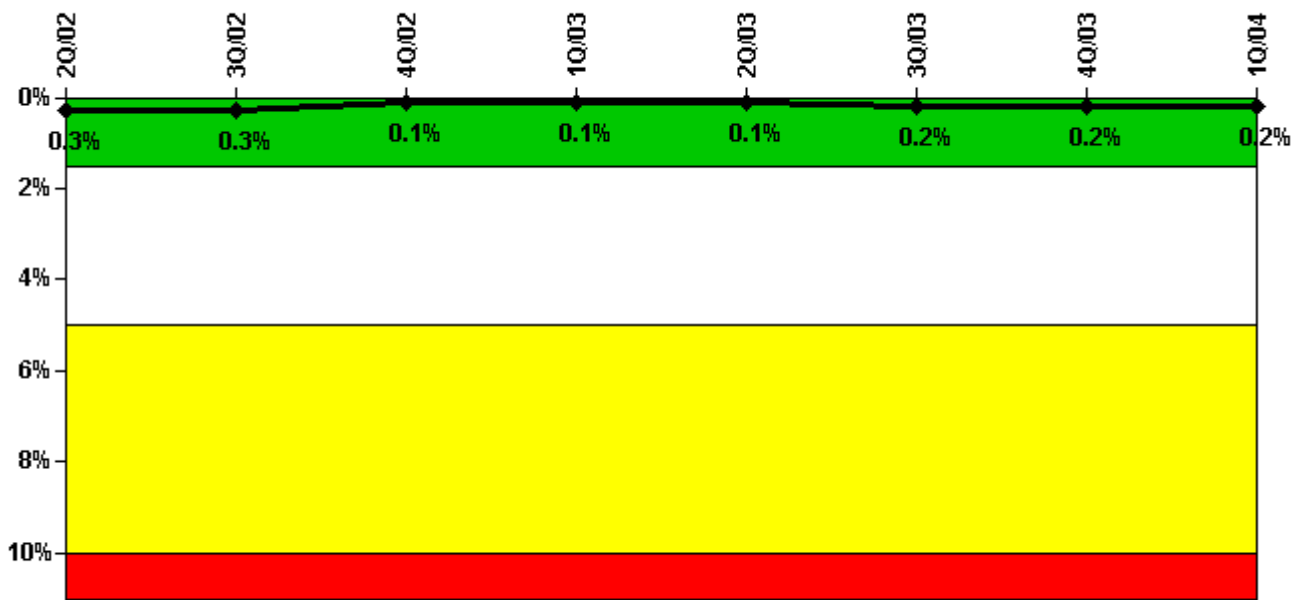
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	2.48	6.18	5.38	1.42	1.27	25.78	2.01	1.64
Unplanned unavailable hours	0	0	0	0.32	0	25.37	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	3.55	6.18	2.06	1.88	15.51	18.57	2.05	6.97
Unplanned unavailable hours	0	0	0	0.32	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00
Train 3								
Planned unavailable hours	0.73	12.72	0.95	10.15	35.80	1.82	15.91	22.02
Unplanned unavailable hours	0	0	0	0.18	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.5%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



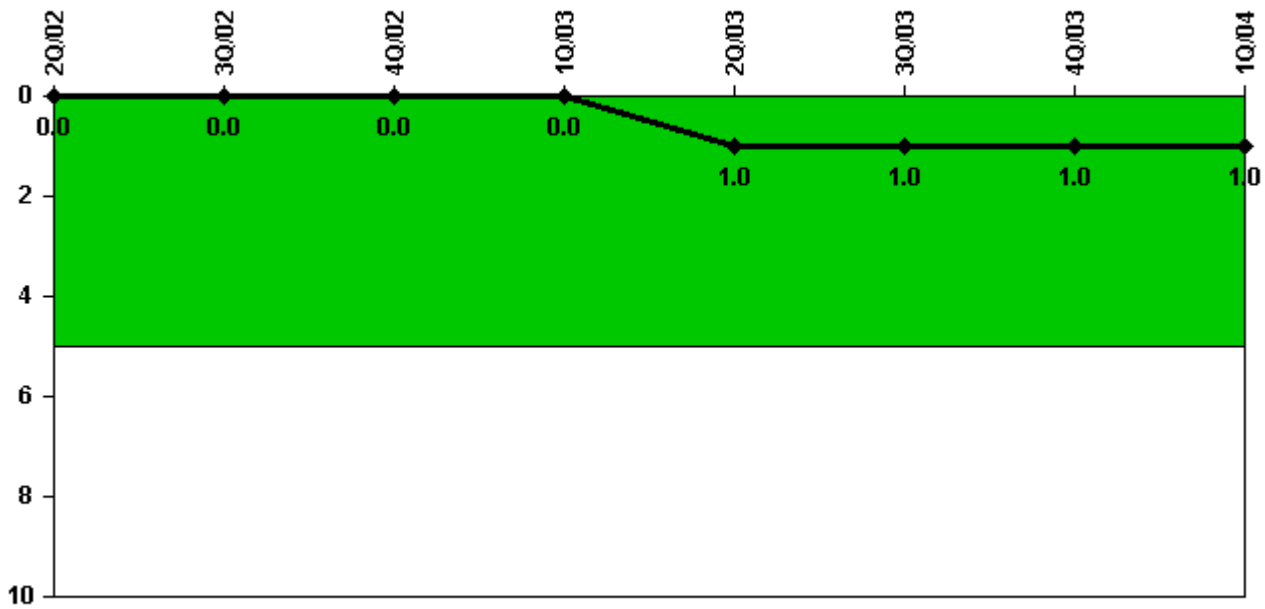
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0.92	1.01	8.20	17.59	0.90	62.65	3.65	1.12
Unplanned unavailable hours	0	0	0	0	0	0	0	0
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	1795.10	1777.52	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	0.66	0	0	3.38	0	0.05	0.47	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	1795.10	1777.52	2208.00	2209.00	2184.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0.33	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	364.90	295.68	0	0	0
Train 4								
Planned unavailable hours	0	0	0	9.77	0	0	0	0
Unplanned unavailable hours	0	0	0	0.33	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	364.90	343.66	0	0	0
Indicator value	0.3%	0.3%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)



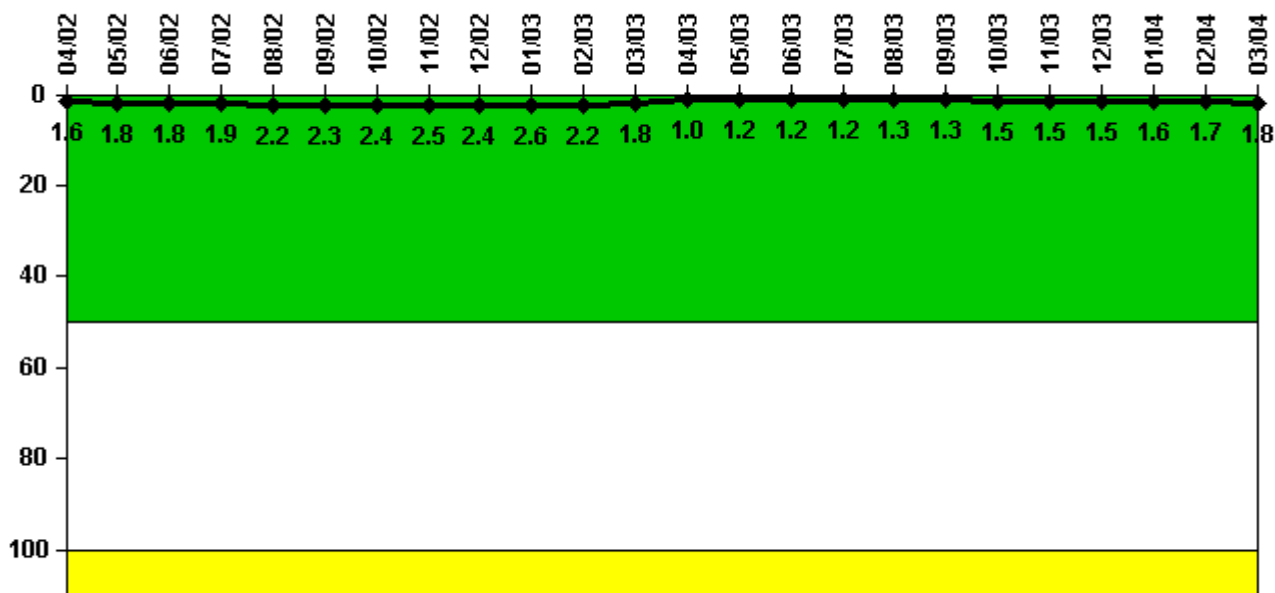
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

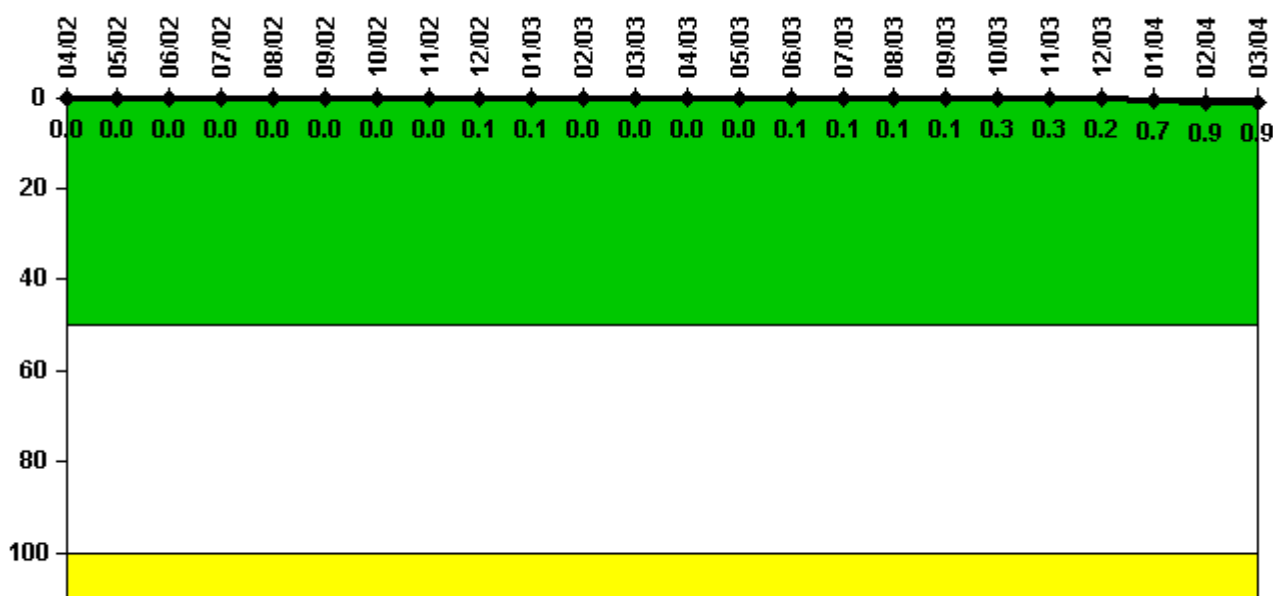
Notes

Reactor Coolant System Activity	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	0.016300	0.018100	0.018100	0.019300	0.021700	0.022700	0.023500	0.024700	0.024400	0.026000	0.022200	0.017900
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.6	1.8	1.8	1.9	2.2	2.3	2.4	2.5	2.4	2.6	2.2	1.8

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	0.009580	0.011800	0.011600	0.012200	0.012800	0.013300	0.014600	0.014900	0.015400	0.016100	0.016600	0.018400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.0	1.2	1.2	1.2	1.3	1.3	1.5	1.5	1.5	1.6	1.7	1.8

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

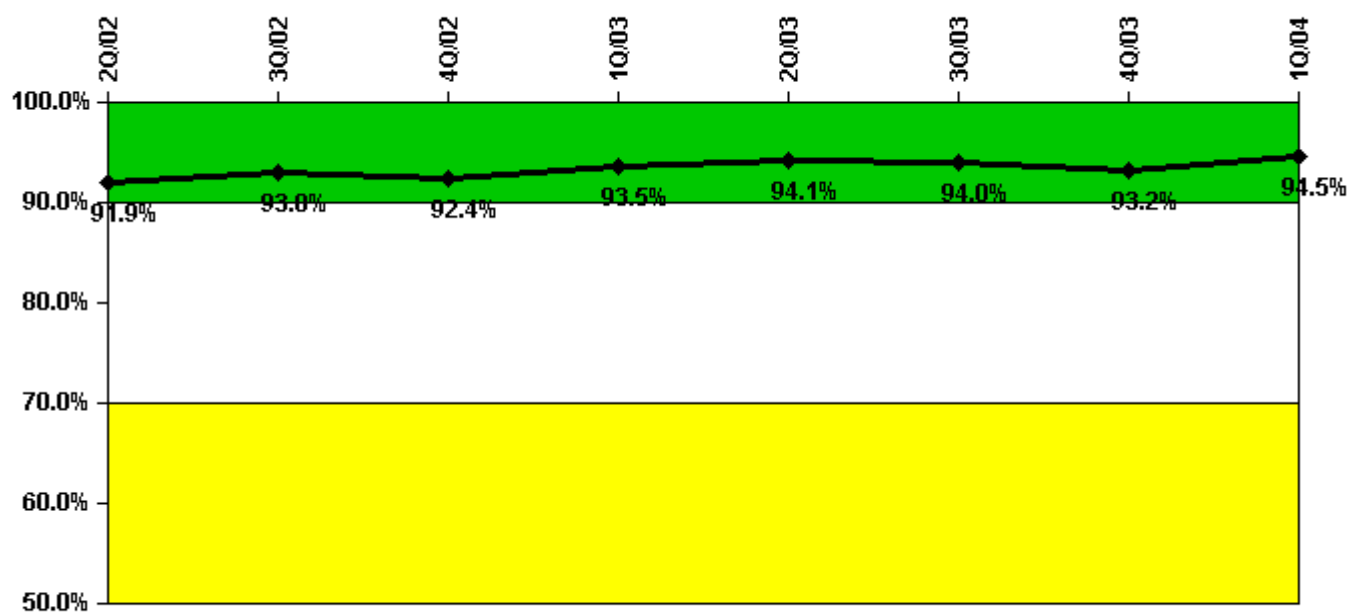
Notes

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	0.002	0.002	0.002	0.002	0.002	0.001	0.001	0.001	0.005	0.005	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0.1	0.1	0	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	0.002	0.002	0.007	0.013	0.013	0.011	0.029	0.026	0.018	0.073	0.085	0.094
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0.1	0.1	0.1	0.1	0.3	0.3	0.2	0.7	0.9	0.9

Licensee Comments: none

Drill/Exercise Performance



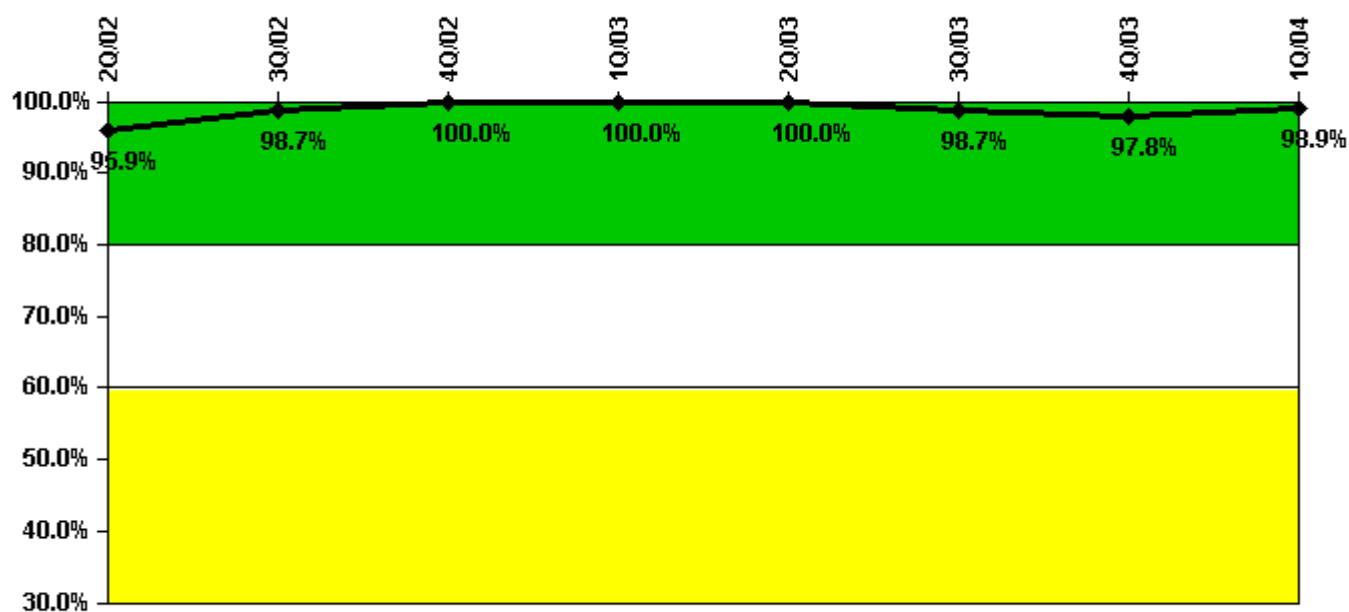
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Successful opportunities	69.0	11.0	24.0	38.0	18.0	45.0	28.0	23.0
Total opportunities	72.0	11.0	26.0	39.0	18.0	48.0	32.0	25.0
Indicator value	91.9%	93.0%	92.4%	93.5%	94.1%	94.0%	93.2%	94.5%

Licensee Comments: none

ERO Drill Participation



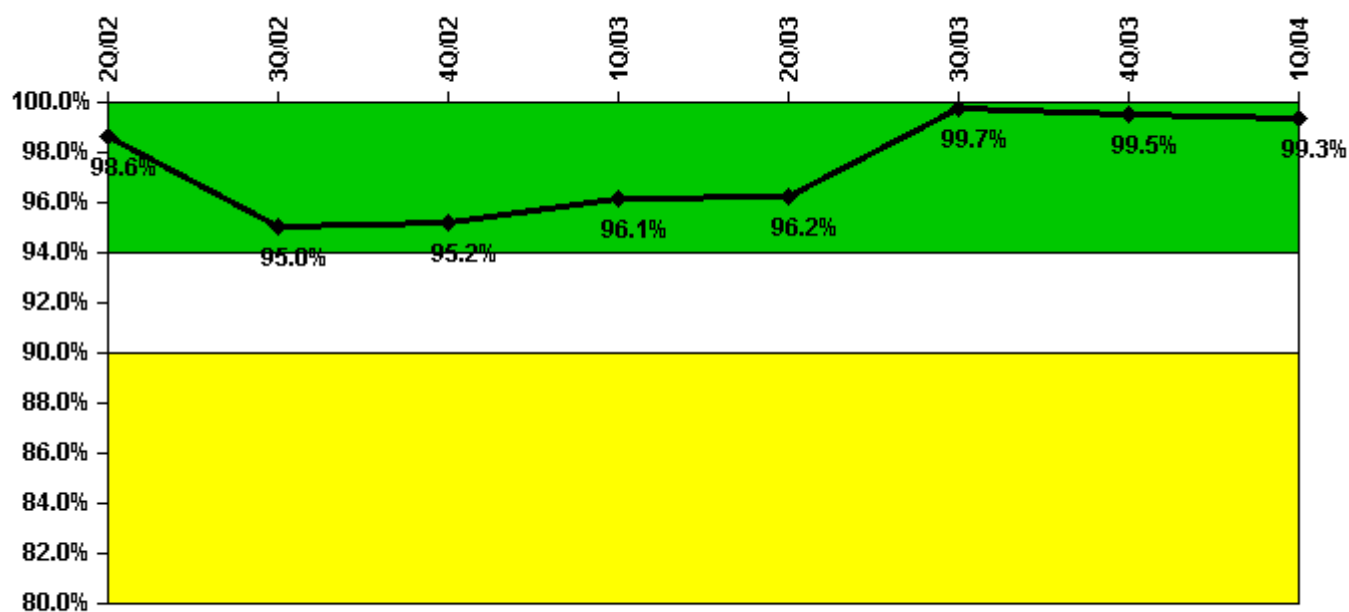
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Participating Key personnel	71.0	74.0	76.0	75.0	72.0	74.0	90.0	86.0
Total Key personnel	74.0	75.0	76.0	75.0	72.0	75.0	92.0	87.0
Indicator value	95.9%	98.7%	100.0%	100.0%	100.0%	98.7%	97.8%	98.9%

Licensee Comments: none

Alert & Notification System



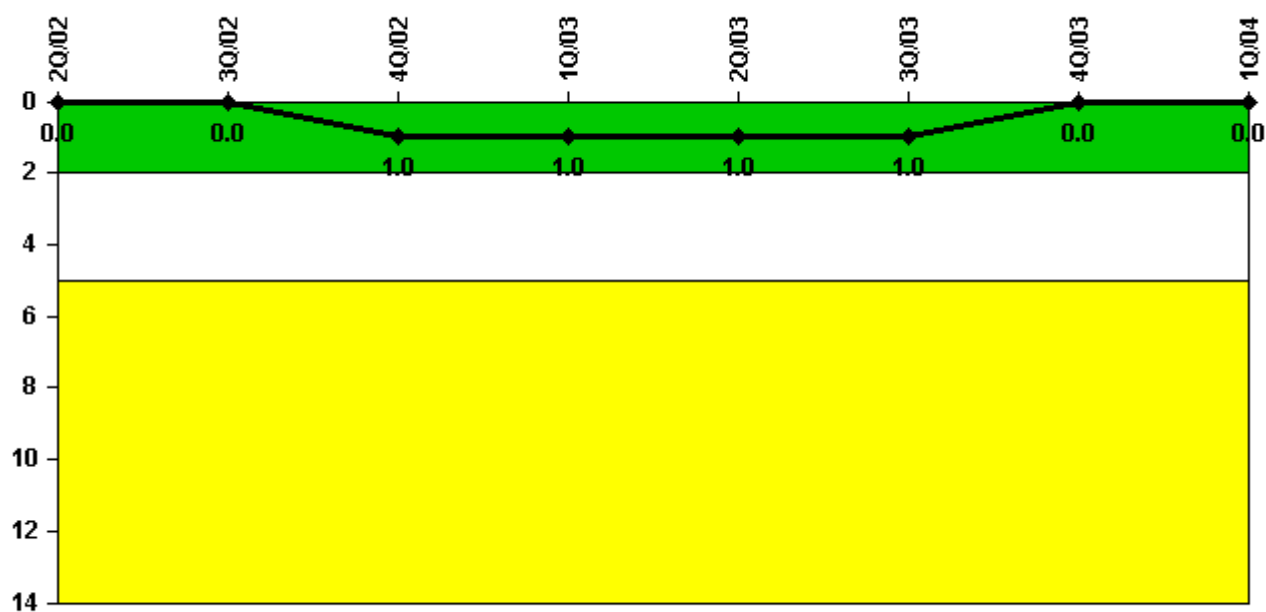
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Successful siren-tests	247	210	252	486	182	183	181	181
Total sirens-tests	252	252	252	488	183	183	183	183
Indicator value	98.6%	95.0%	95.2%	96.1%	96.2%	99.7%	99.5%	99.3%

Licensee Comments: none

Occupational Exposure Control Effectiveness

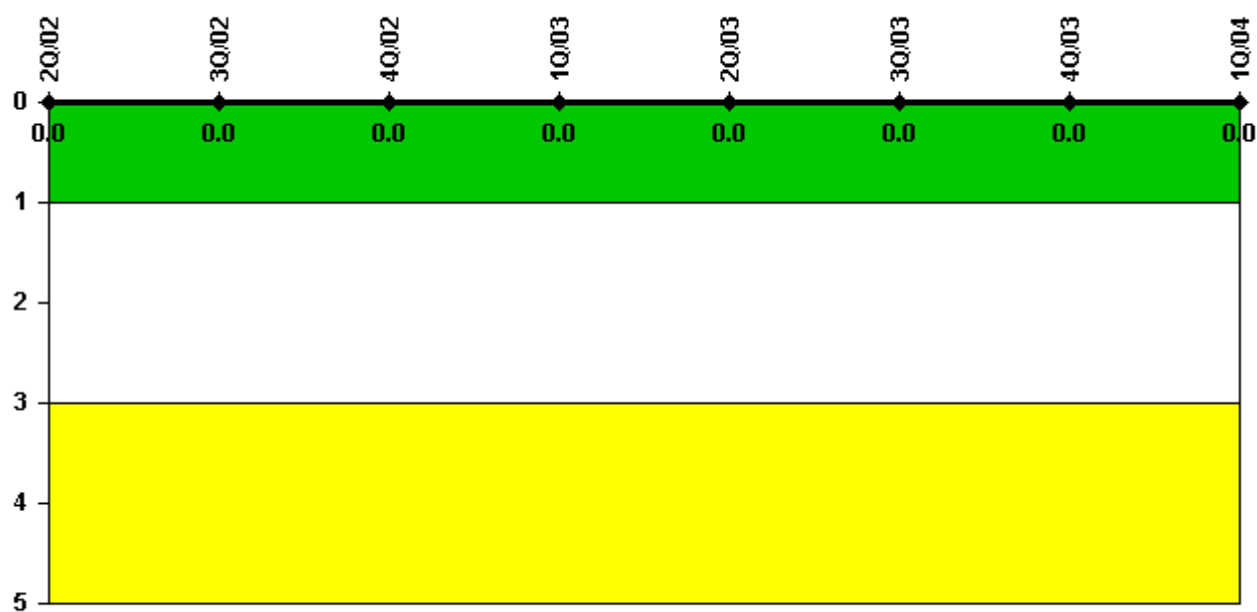


Thresholds: White > 2.0 Yellow > 5.0

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

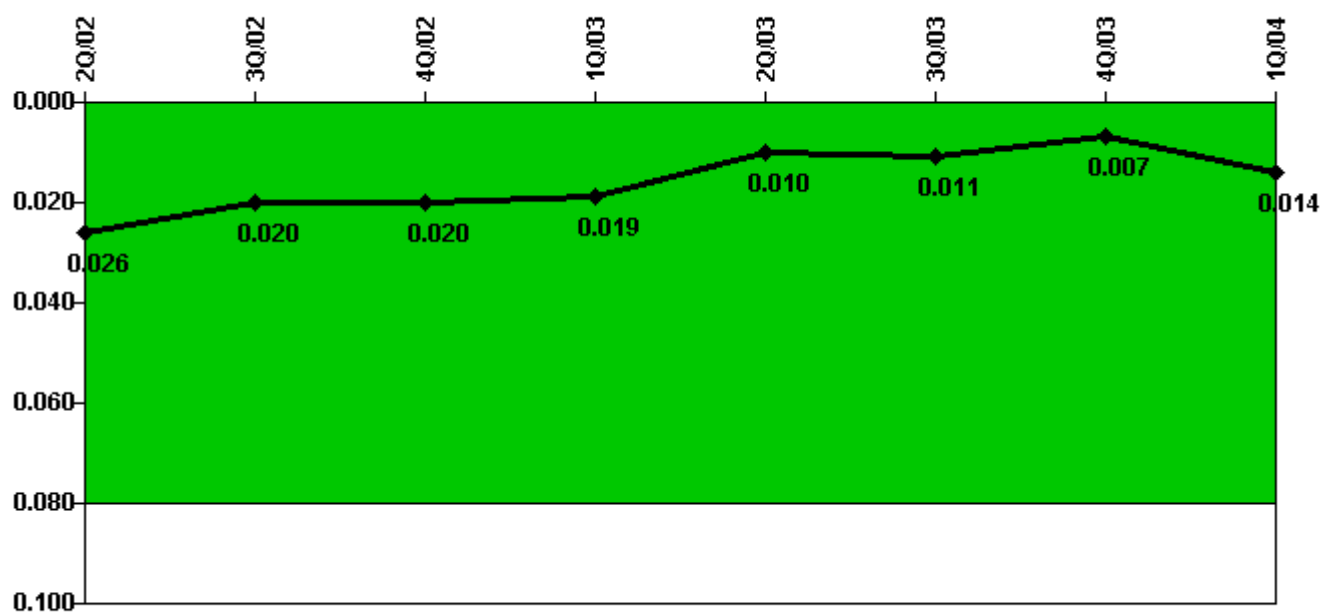
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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



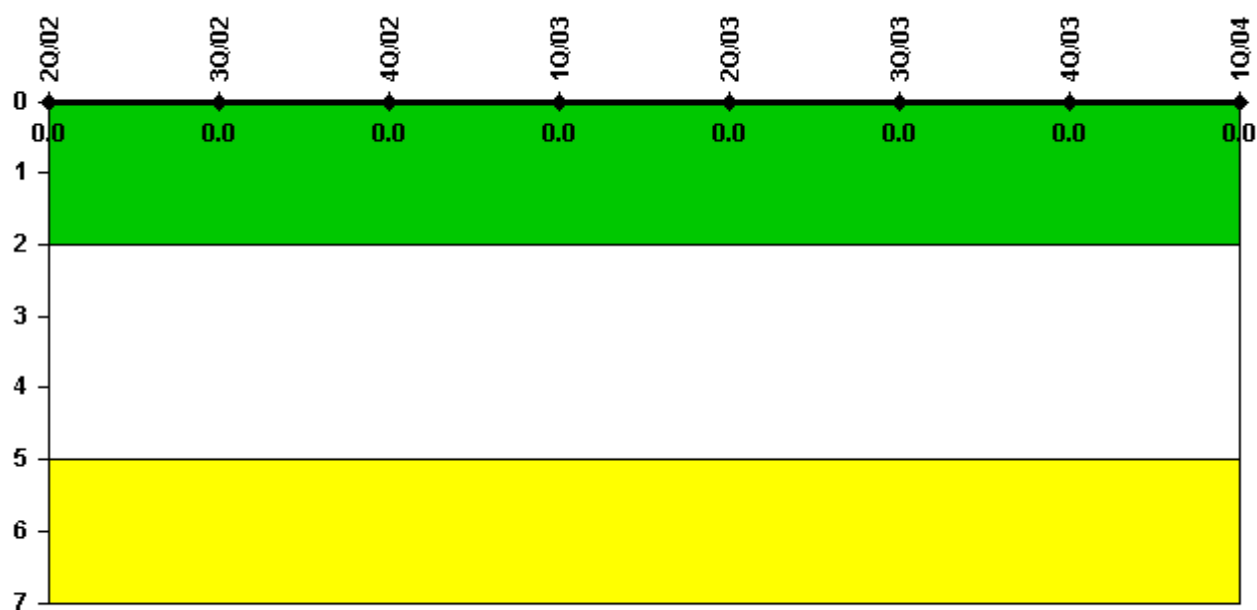
Thresholds: White > 0.080

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	279.20	22.20	137.42	35.02	53.18	63.92	37.83	204.87
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.45	1.45	1.45	1.45	1.45	1.45	1.45	1.45
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.026	0.020	0.020	0.019	0.010	0.011	0.007	0.014

Licensee Comments: none

Personnel Screening Program



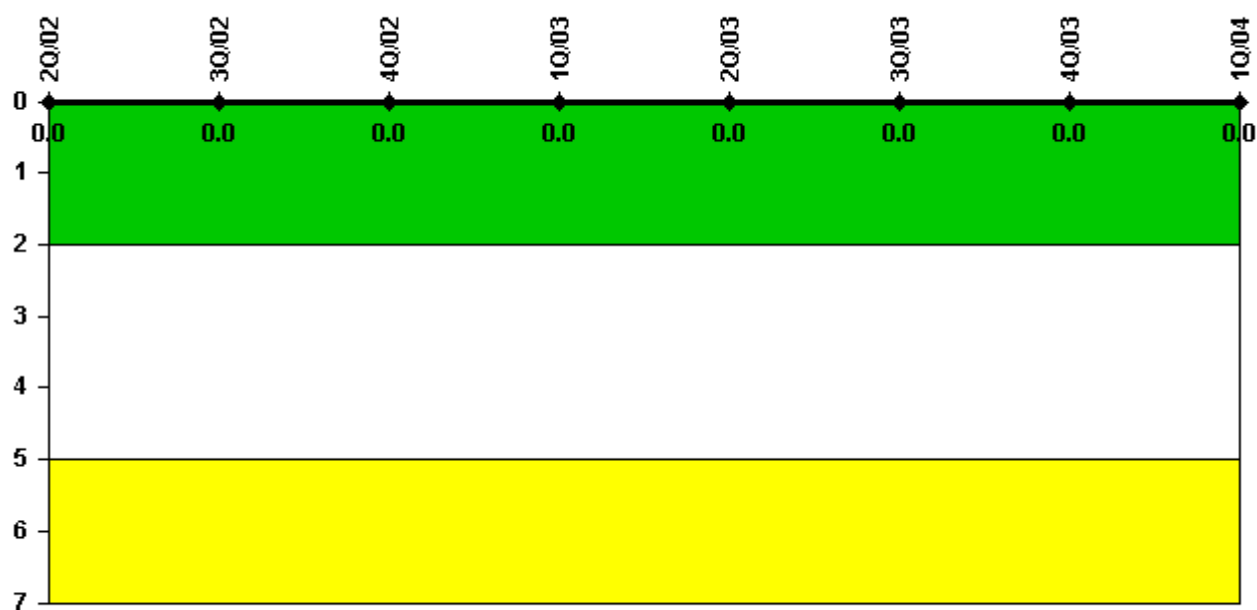
Thresholds: White > 2.0 Yellow > 5.0

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](#)

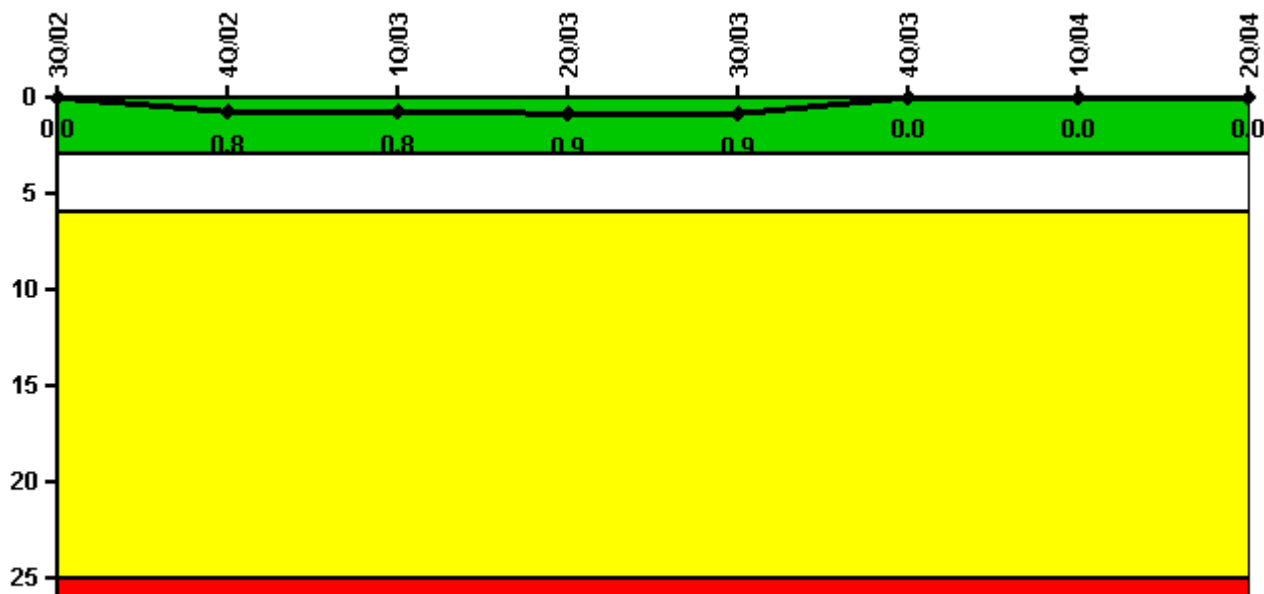
Last Modified: April 22, 2004

Palisades

2Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



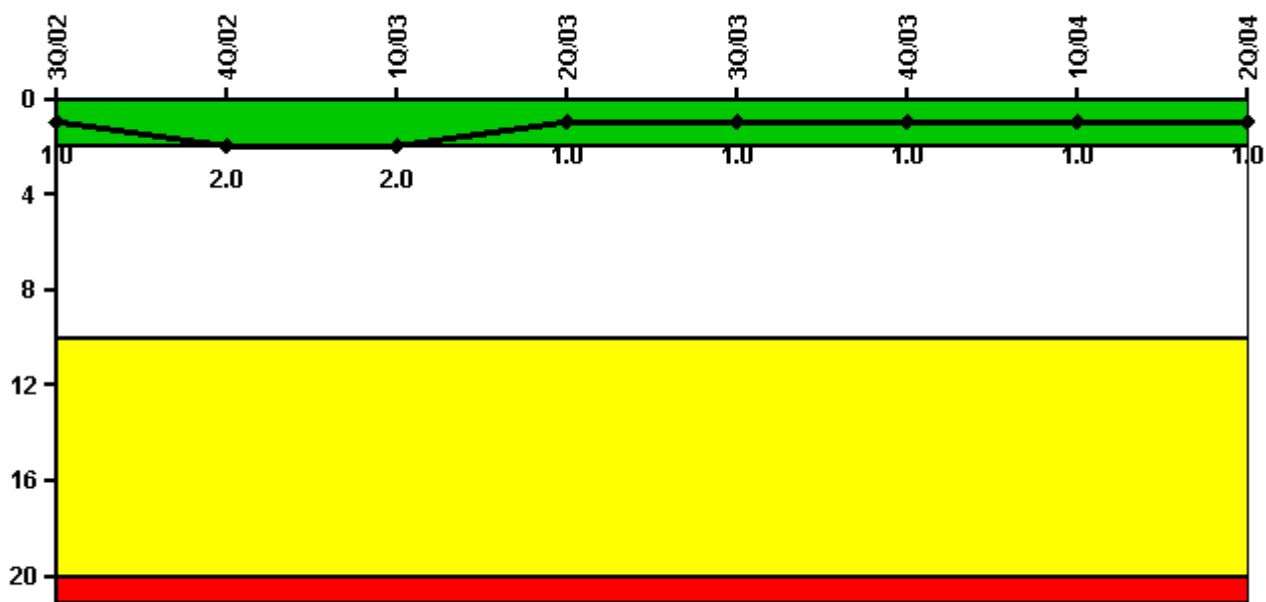
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	0	0
Critical hours	2208.0	2142.1	1782.4	1743.9	2208.0	2209.0	2184.0	2183.0
Indicator value	0	0.8	0.8	0.9	0.9	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



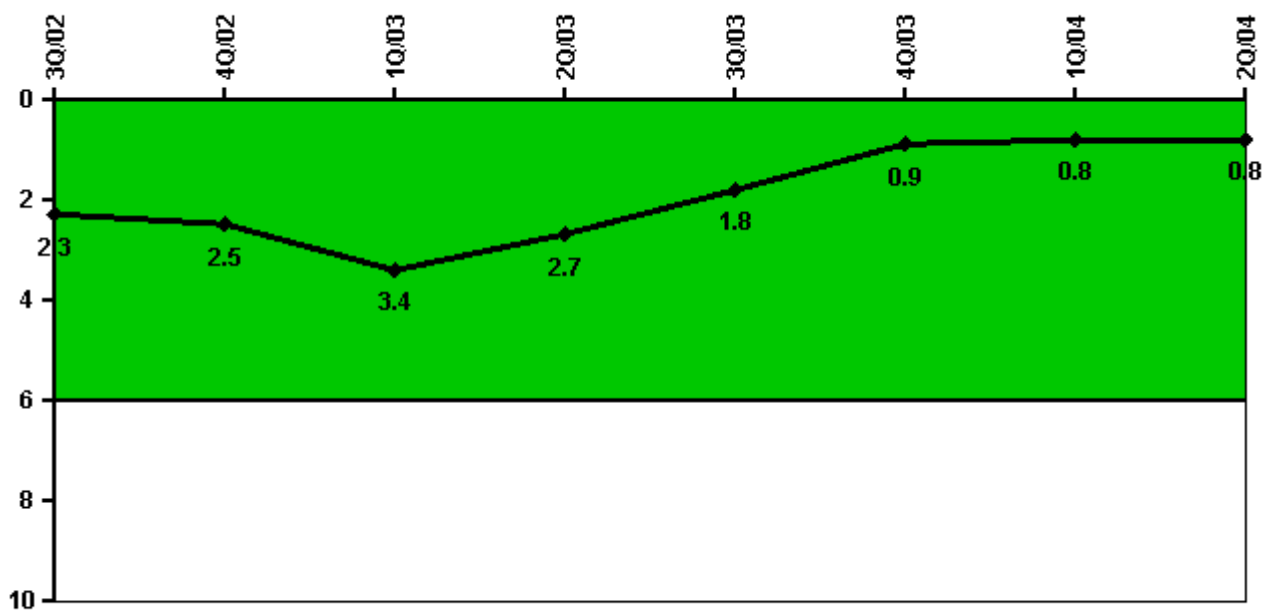
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



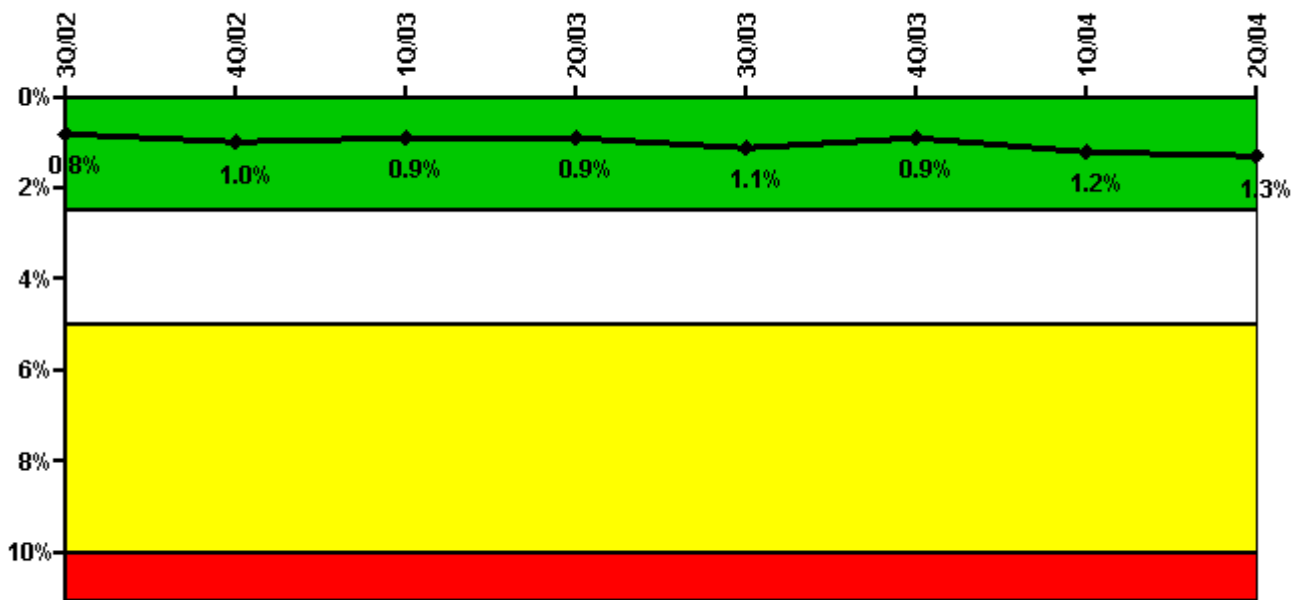
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned power changes	1.0	1.0	1.0	0	0	0	1.0	0
Critical hours	2208.0	2142.1	1782.4	1743.9	2208.0	2209.0	2184.0	2183.0
Indicator value	2.3	2.5	3.4	2.7	1.8	0.9	0.8	0.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

Notes

Safety System Unavailability, Emergency AC Power	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	3.75	64.58	7.33	12.80	33.60	0.64	104.05	5.11
Unplanned unavailable hours	5.72	5.07	5.57	0	11.20	46.35	0	0
Fault exposure hours	4.57	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	3.23	84.63	2.67	17.57	42.75	0.47	0.96	86.40
Unplanned unavailable hours	32.32	0	15.77	0	0	0	48.40	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
Indicator value	0.8%	1.0%	0.9%	0.9%	1.1%	0.9%	1.2%	1.3%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



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

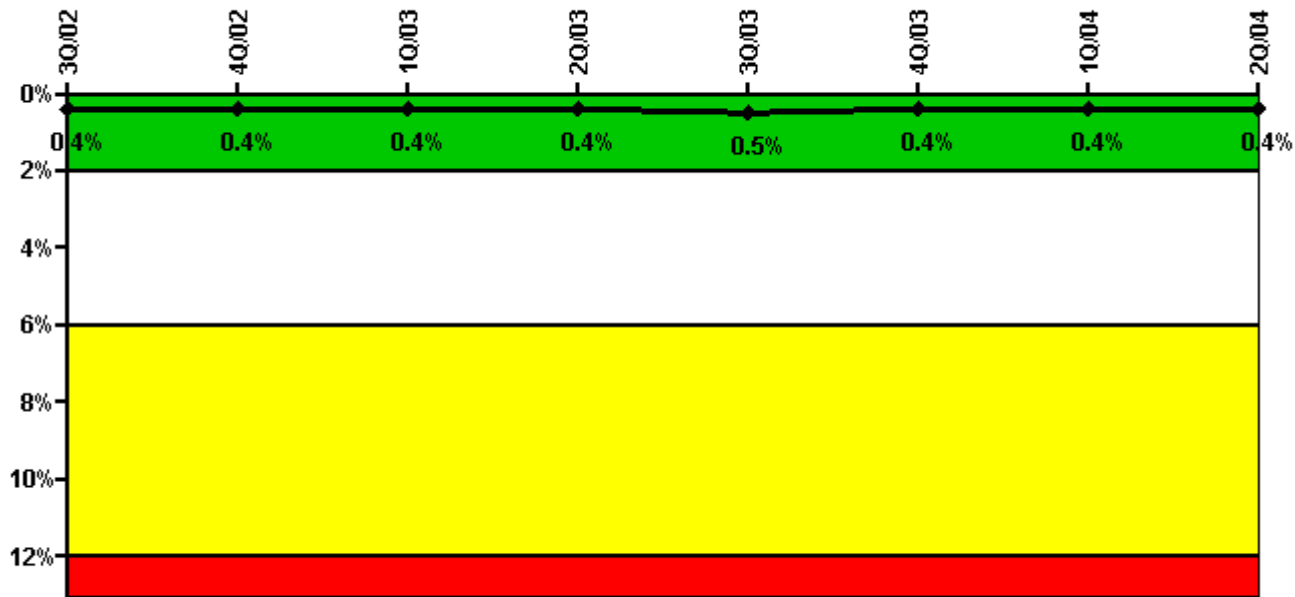
Notes

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	6.06	0.68	18.96	12.78	0	8.08	46.50	3.86
Unplanned unavailable hours	0	18.22	0	0	0	4.25	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	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	0.37	4.22	6.29	0	2.40	0.47	30.65	7.15
Unplanned unavailable hours	0	0	0	0	43.57	0	0	8.60
Fault exposure hours	0	0	0	0	0	3.95	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00
Indicator value	0.5%	0.5%	0.6%	0.6%	0.5%	0.5%	0.7%	0.7%

Licensee Comments:

4Q/03: Fault exposure hours for Train 2, high pressure safety injection pump 1-B, resulted from a failure of a pressure controller, for the nitrogen backup supply, to maintain sufficient pressure for motive force to operate sub cooling valve CV-3070 when the normal instrument air supply was not available.

Safety System Unavailability, Heat Removal System (AFW)



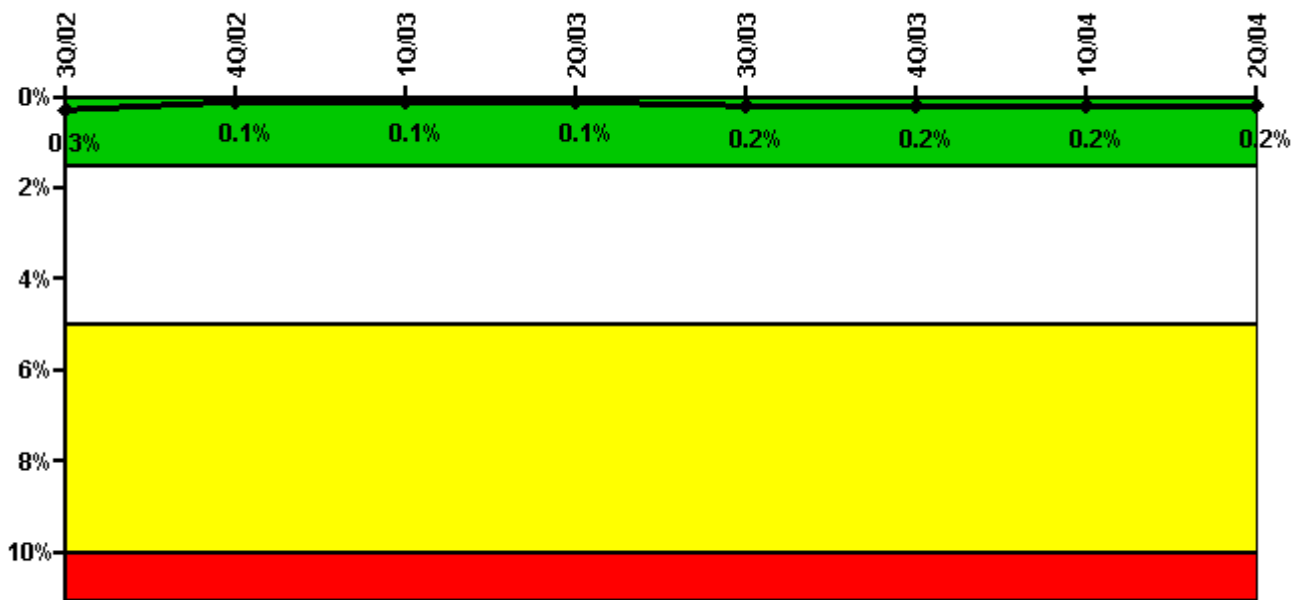
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

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	6.18	5.38	1.42	1.27	25.78	2.01	1.64	4.68
Unplanned unavailable hours	0	0	0.32	0	25.37	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	6.18	2.06	1.88	15.51	18.57	2.05	6.97	5.13
Unplanned unavailable hours	0	0	0.32	0	0	0	0	0
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	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00
Train 3								
Planned unavailable hours	12.72	0.95	10.15	35.80	1.82	15.91	22.02	3.73
Unplanned unavailable hours	0	0	0.18	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.5%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

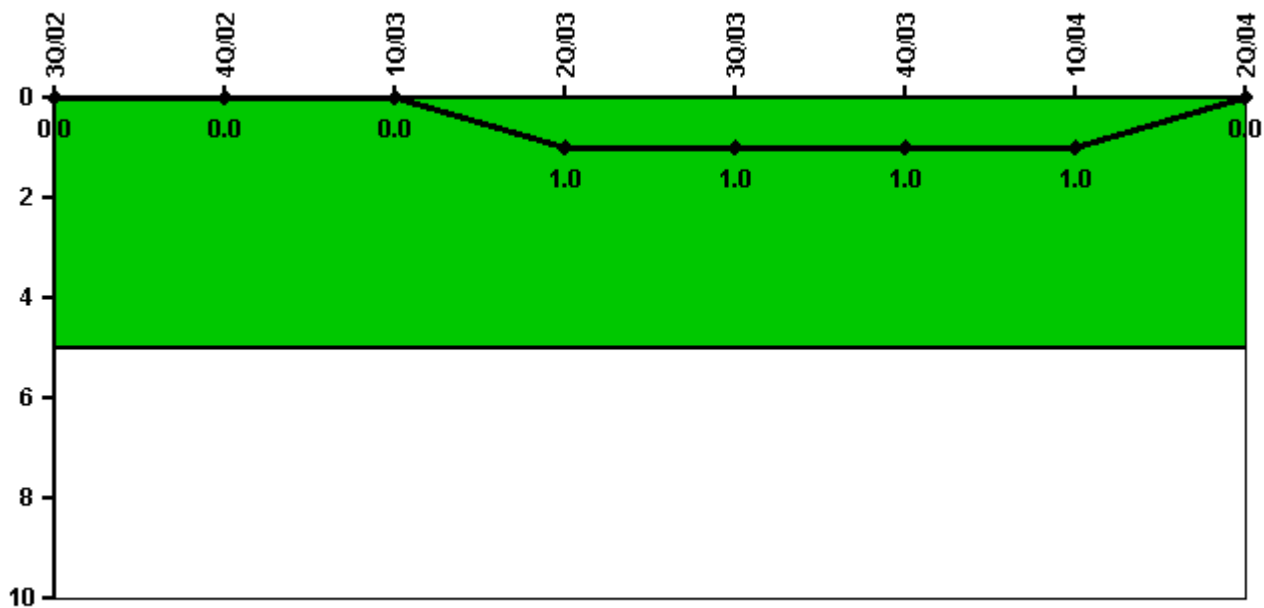


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	1.01	8.20	17.59	0.90	62.65	3.65	1.12	4.36
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	0	0	3.38	0	0.05	0.47	0	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	2208.00	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0.33	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	364.90	295.68	0	0	0	0
Train 4								
Planned unavailable hours	0	0	9.77	0	0	0	0	0
Unplanned unavailable hours	0	0	0.33	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	364.90	343.66	0	0	0	0
Indicator value	0.3%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%

Safety System Functional Failures (PWR)



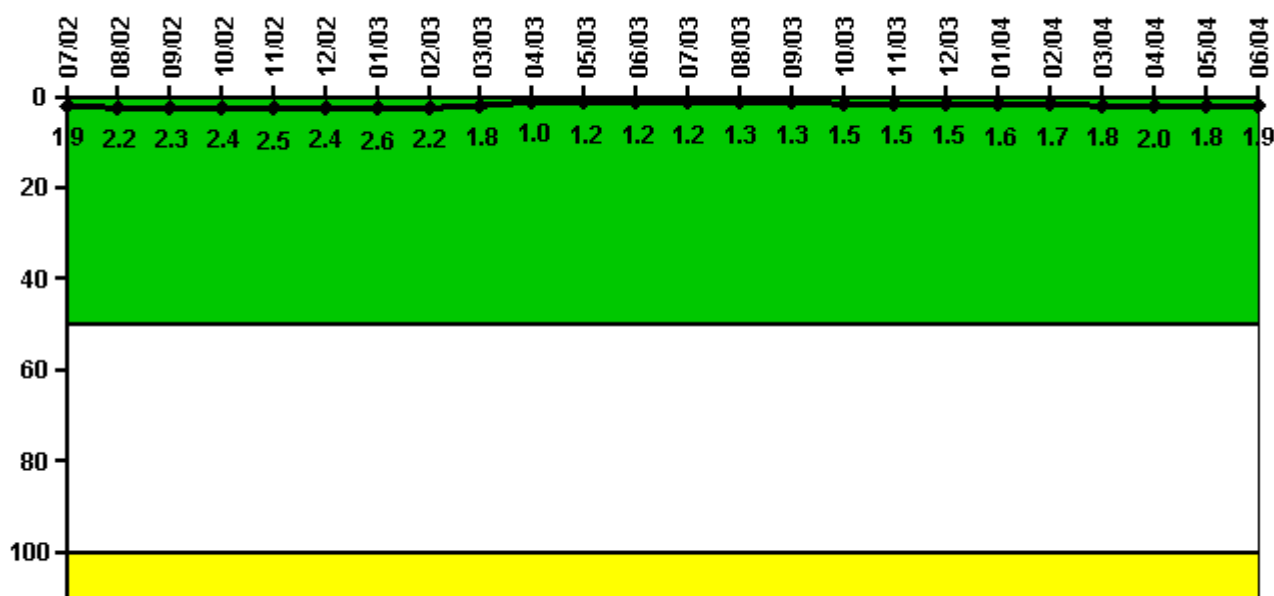
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



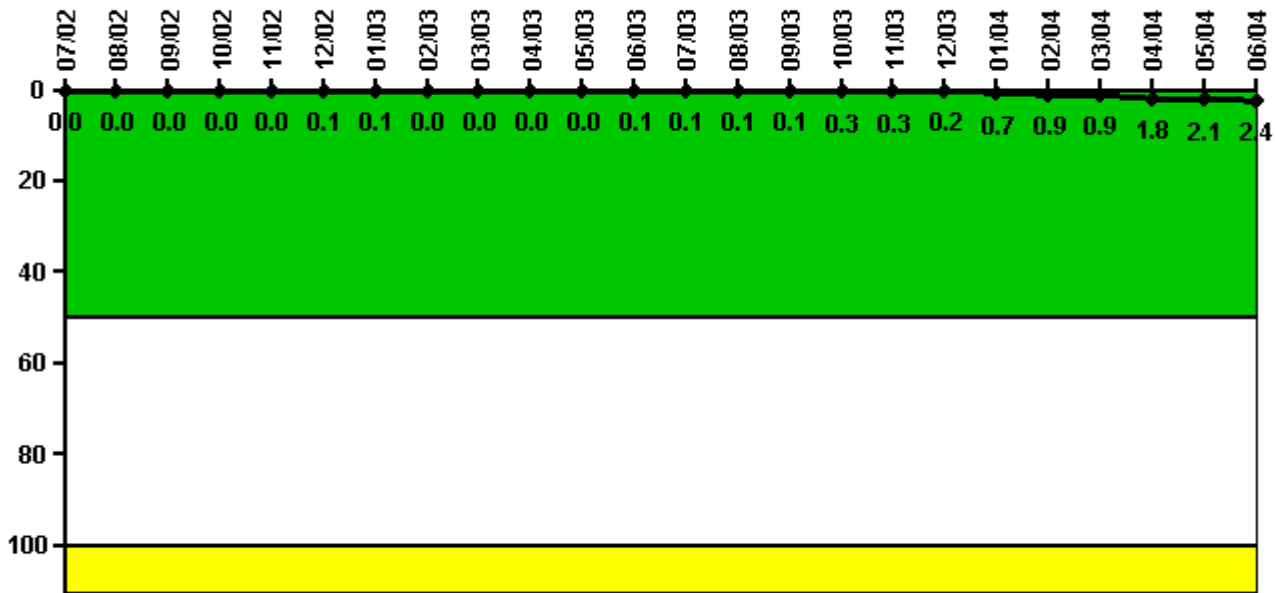
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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	0.019300	0.021700	0.022700	0.023500	0.024700	0.024400	0.026000	0.022200	0.017900	0.009580	0.011800	0.011600
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.9	2.2	2.3	2.4	2.5	2.4	2.6	2.2	1.8	1.0	1.2	1.2
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	0.012200	0.012800	0.013300	0.014600	0.014900	0.015400	0.016100	0.016600	0.018400	0.019700	0.018400	0.018800
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.2	1.3	1.3	1.5	1.5	1.5	1.6	1.7	1.8	2.0	1.8	1.9

Licensee Comments: none

Reactor Coolant System Leakage



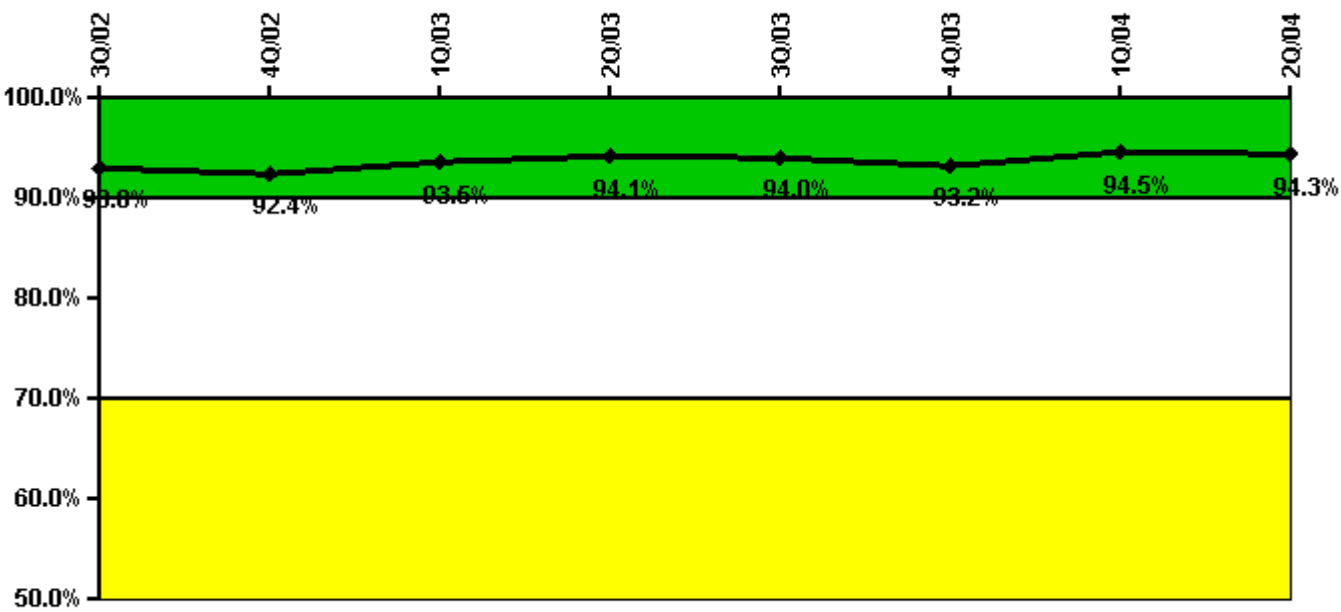
Thresholds: White > 50.0 Yellow > 100.0

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	0.002	0.002	0.001	0.001	0.001	0.005	0.005	0.001	0.001	0.002	0.002	0.007
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0.1	0.1	0	0	0	0	0.1
Reactor Coolant System Leakage	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum leakage	0.013	0.013	0.011	0.029	0.026	0.018	0.073	0.085	0.094	0.180	0.209	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	0.1	0.1	0.1	0.3	0.3	0.2	0.7	0.9	0.9	1.8	2.1	2.4

Licensee Comments: none

Drill/Exercise Performance



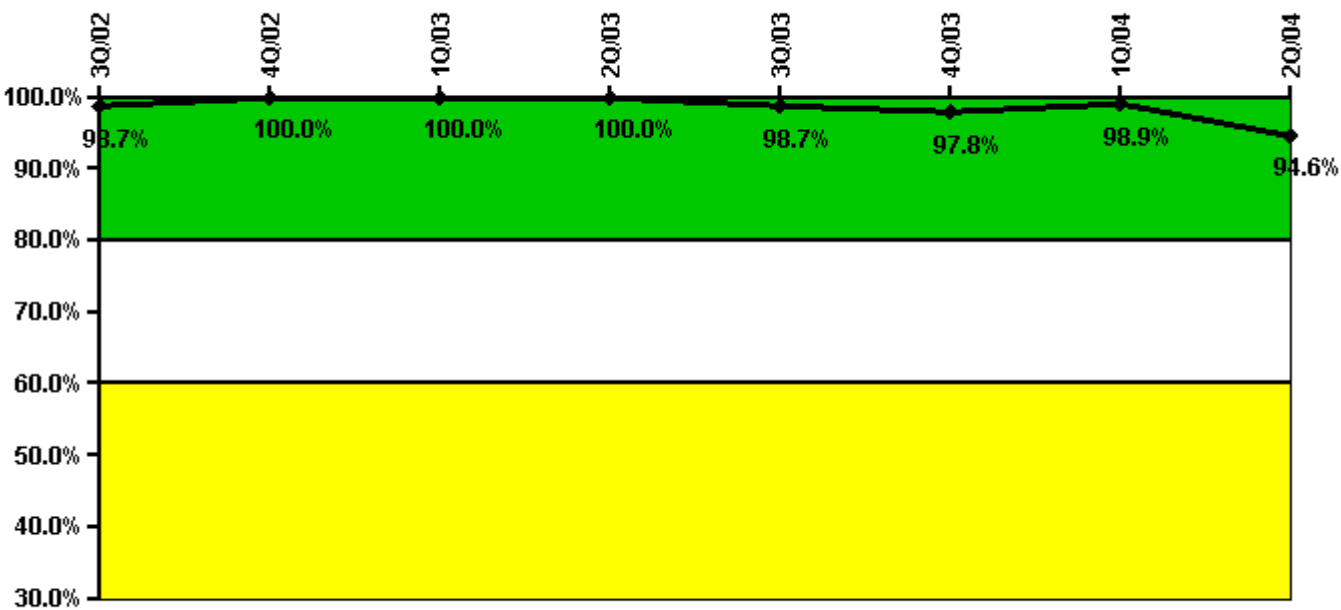
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful opportunities	11.0	24.0	38.0	18.0	45.0	28.0	23.0	27.0
Total opportunities	11.0	26.0	39.0	18.0	48.0	32.0	25.0	28.0
Indicator value	93.0%	92.4%	93.5%	94.1%	94.0%	93.2%	94.5%	94.3%

Licensee Comments: none

ERO Drill Participation



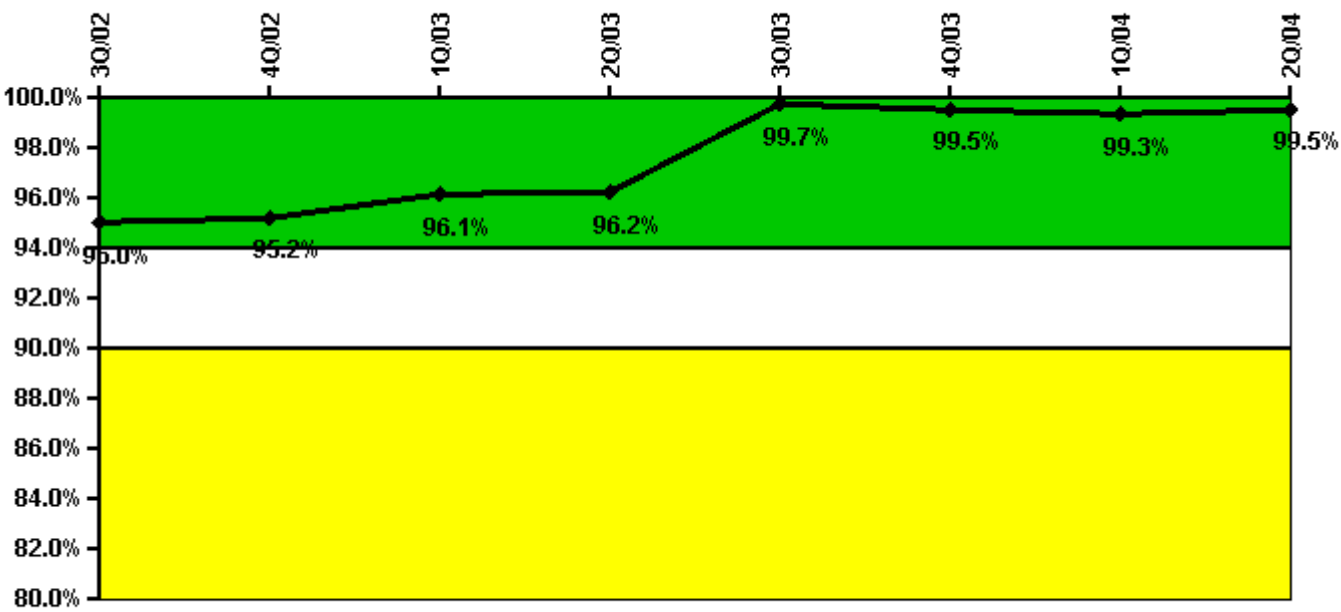
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Participating Key personnel	74.0	76.0	75.0	72.0	74.0	90.0	86.0	87.0
Total Key personnel	75.0	76.0	75.0	72.0	75.0	92.0	87.0	92.0
Indicator value	98.7%	100.0%	100.0%	100.0%	98.7%	97.8%	98.9%	94.6%

Licensee Comments: none

Alert & Notification System



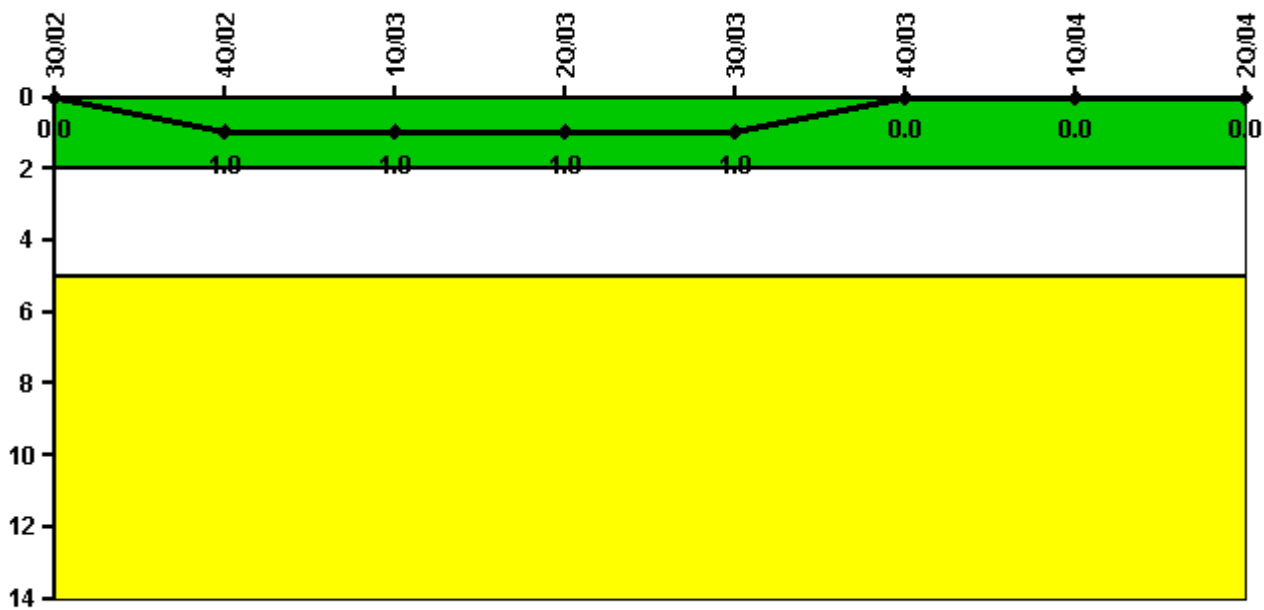
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful siren-tests	210	252	486	182	183	181	181	183
Total sirens-tests	252	252	488	183	183	183	183	183
Indicator value	95.0%	95.2%	96.1%	96.2%	99.7%	99.5%	99.3%	99.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness

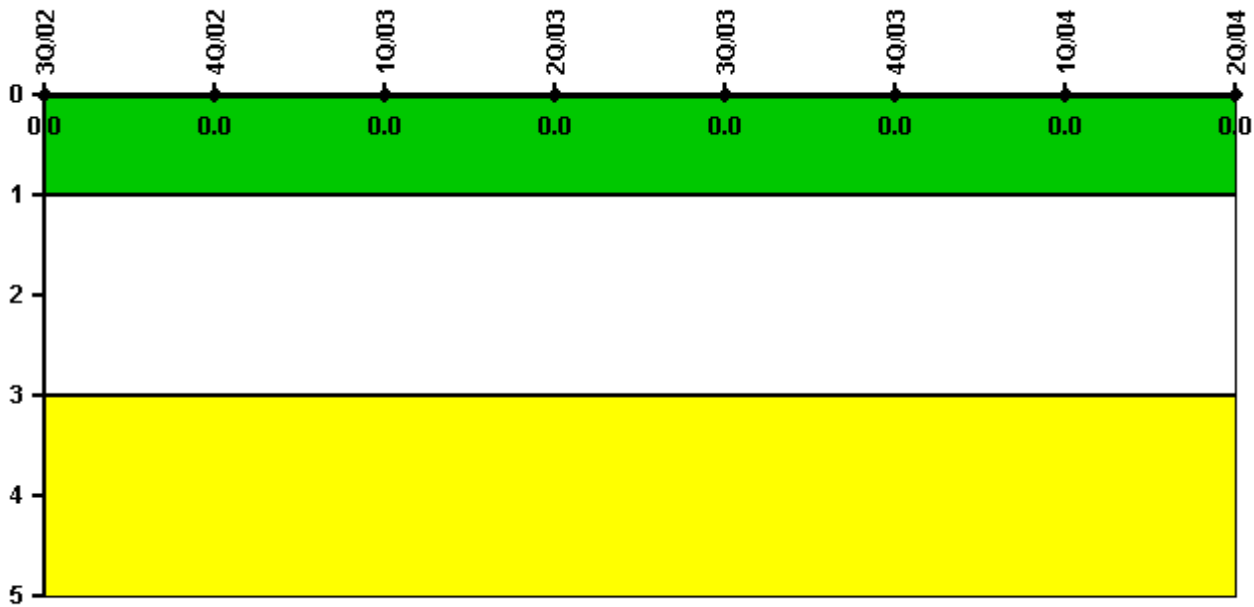


Thresholds: White > 2.0 Yellow > 5.0

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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](#)

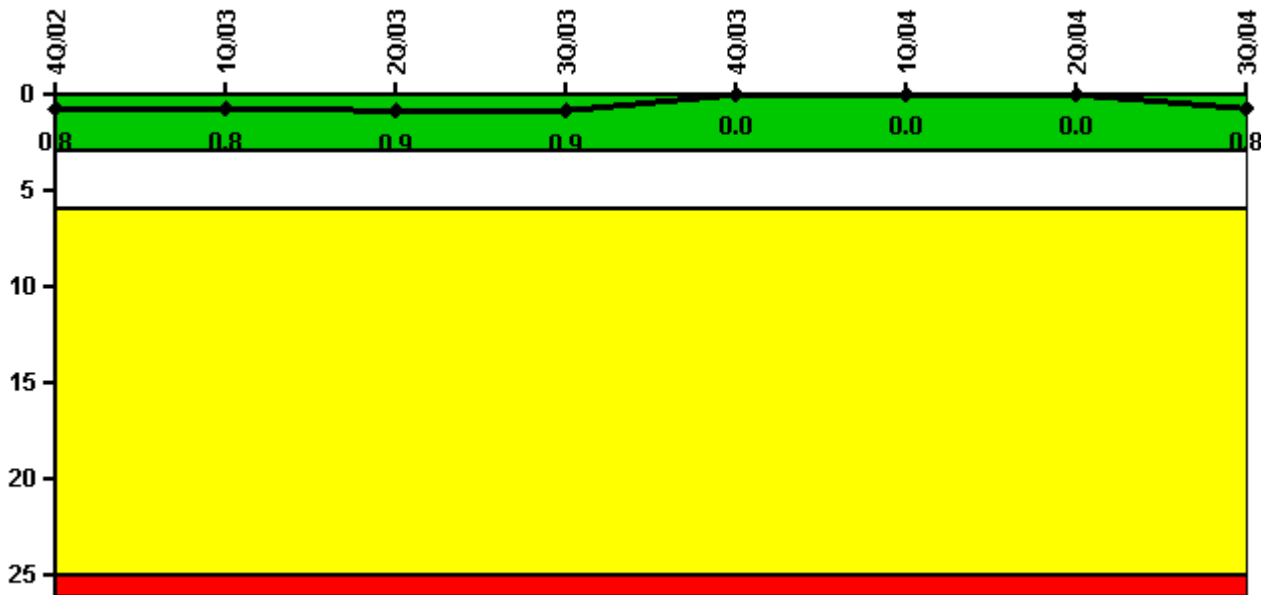
Last Modified: September 8, 2004

Palisades

3Q/2004 Performance Indicators

Licensee's General Comments: Data from 8/03 and 9/03 were updated as a result of a self-assessment and an NRC inspection. This update resulted in 8/03 changing from 16/16 opportunities to 14/16 opportunities, and the 9/03 data changing from 29/32 opportunities to 27/32 opportunities.

Unplanned Scrams per 7000 Critical Hrs



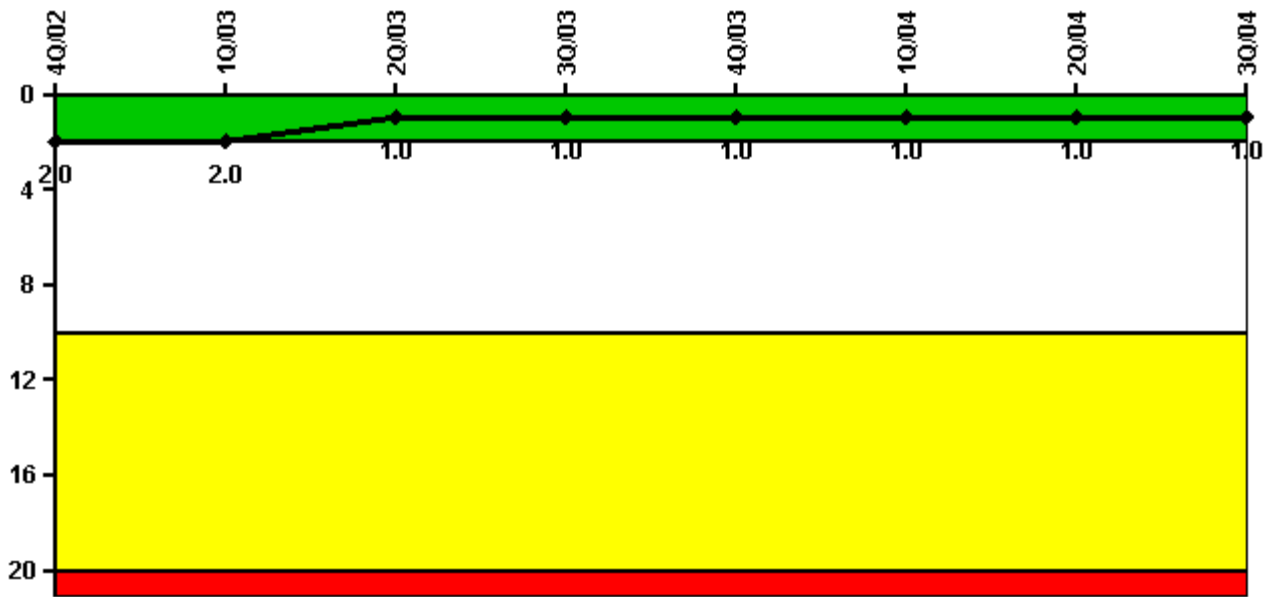
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	0	0	1.0
Critical hours	2142.1	1782.4	1743.9	2208.0	2209.0	2184.0	2183.0	1756.4
Indicator value	0.8	0.8	0.9	0.9	0	0	0	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



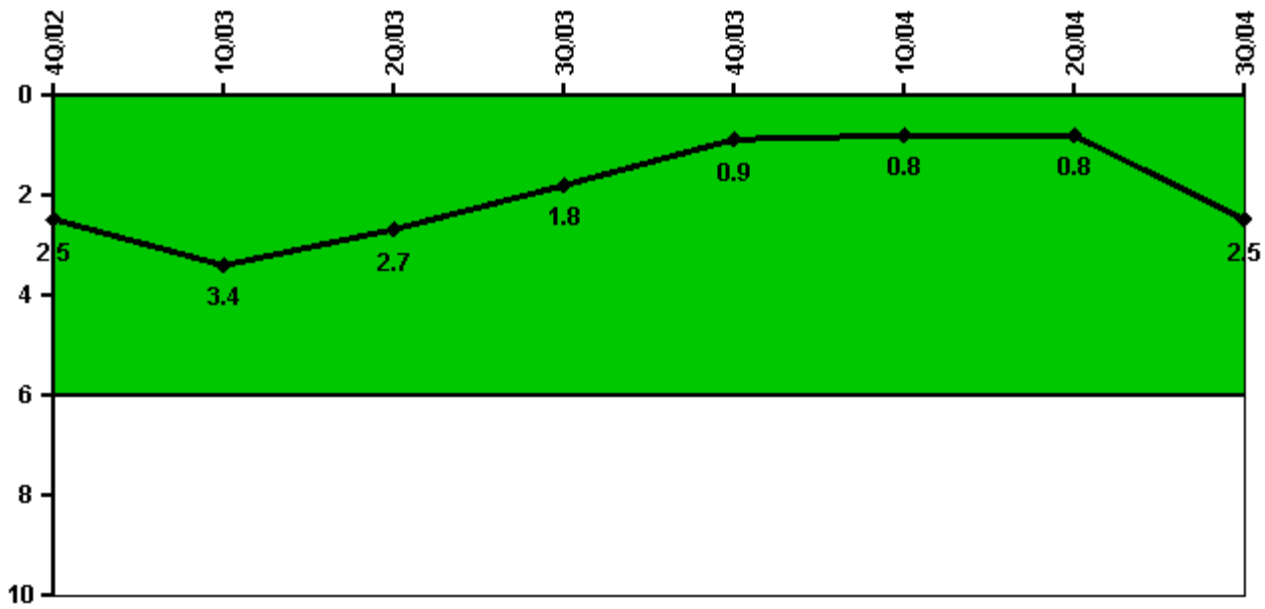
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



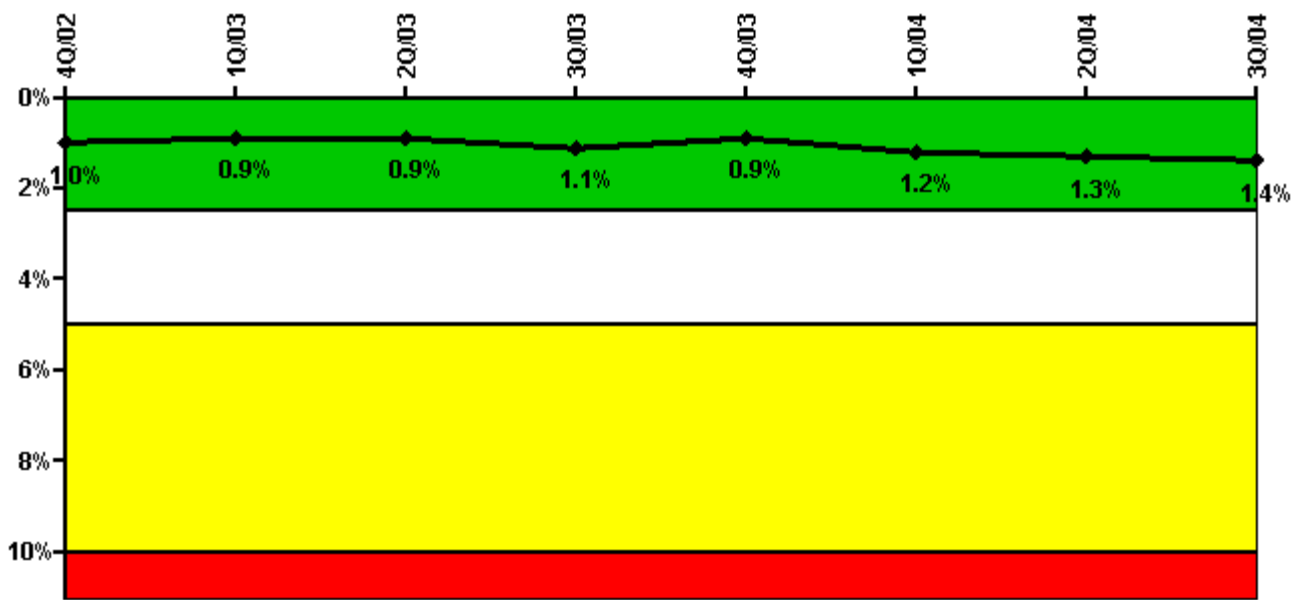
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned power changes	1.0	1.0	0	0	0	1.0	0	2.0
Critical hours	2142.1	1782.4	1743.9	2208.0	2209.0	2184.0	2183.0	1756.4
Indicator value	2.5	3.4	2.7	1.8	0.9	0.8	0.8	2.5

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



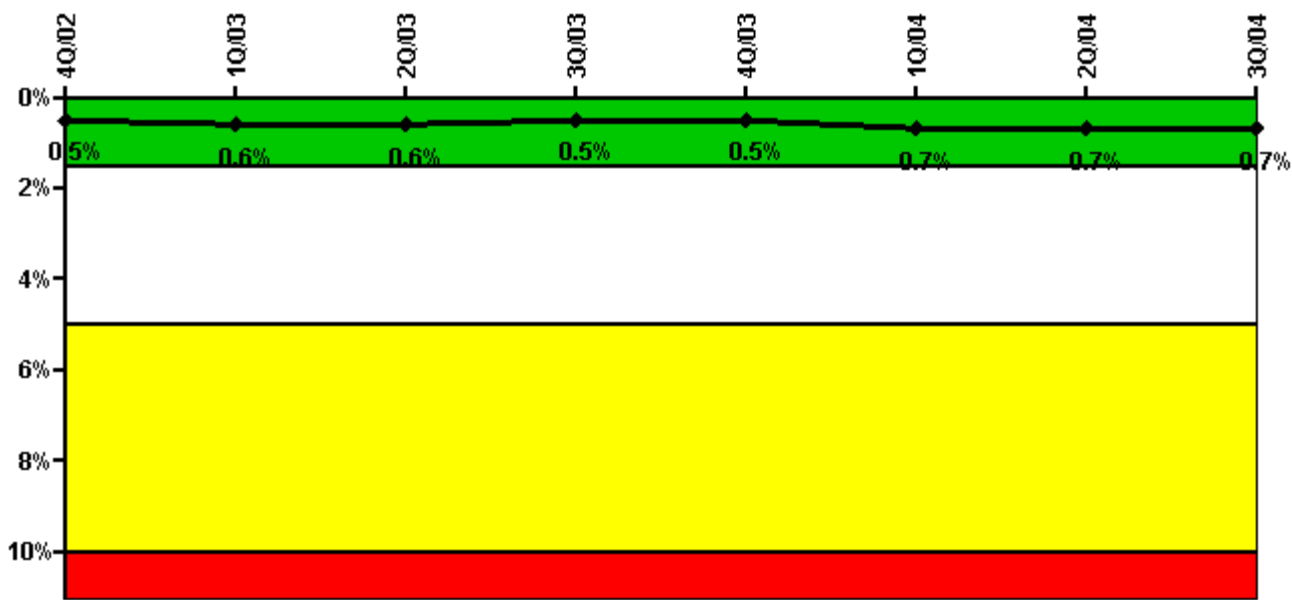
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	64.58	7.33	12.80	33.60	0.64	104.05	5.11	6.53
Unplanned unavailable hours	5.07	5.57	0	11.20	46.35	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	84.63	2.67	17.57	42.75	0.47	0.96	86.40	6.33
Unplanned unavailable hours	0	15.77	0	0	0	48.40	0	1.43
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
Indicator value	1.0%	0.9%	0.9%	1.1%	0.9%	1.2%	1.3%	1.4%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



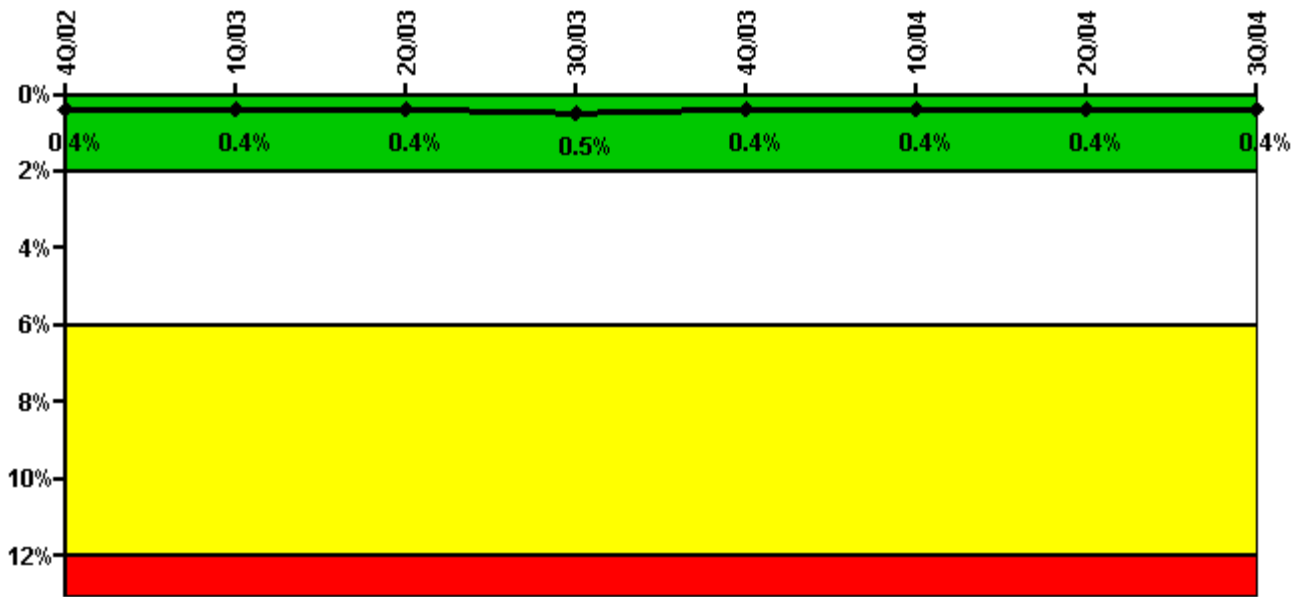
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	0.68	18.96	12.78	0	8.08	46.50	3.86	33.19
Unplanned unavailable hours	18.22	0	0	0	4.25	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	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31
Train 2								
Planned unavailable hours	4.22	6.29	0	2.40	0.47	30.65	7.15	18.44
Unplanned unavailable hours	0	0	0	43.57	0	0	8.60	0
Fault exposure hours	0	0	0	0	3.95	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31
Indicator value	0.5%	0.6%	0.6%	0.5%	0.5%	0.7%	0.7%	0.7%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



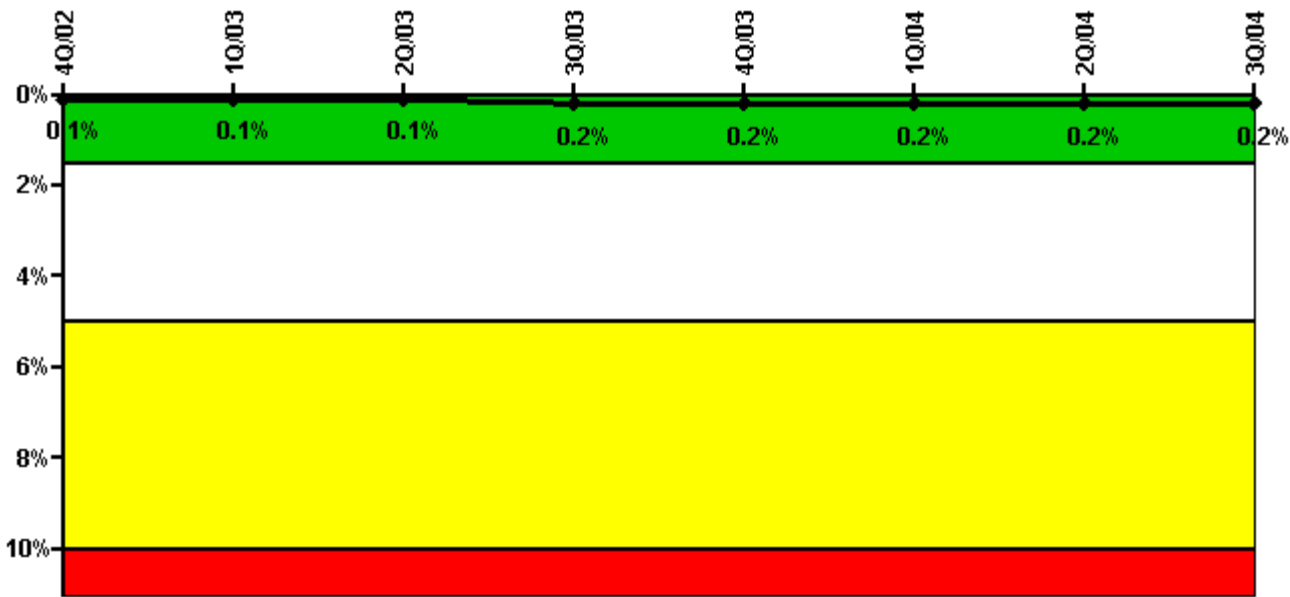
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	5.38	1.42	1.27	25.78	2.01	1.64	4.68	1.45
Unplanned unavailable hours	0	0.32	0	25.37	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31
Train 2								
Planned unavailable hours	2.06	1.88	15.51	18.57	2.05	6.97	5.13	1.33
Unplanned unavailable hours	0	0.32	0	0	0	0	0	0
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	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1776.03
Train 3								
Planned unavailable hours	0.95	10.15	35.80	1.82	15.91	22.02	3.73	0.65
Unplanned unavailable hours	0	0.18	0	0	0	0	0	0
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	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31
Indicator value	0.4%	0.4%	0.4%	0.5%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



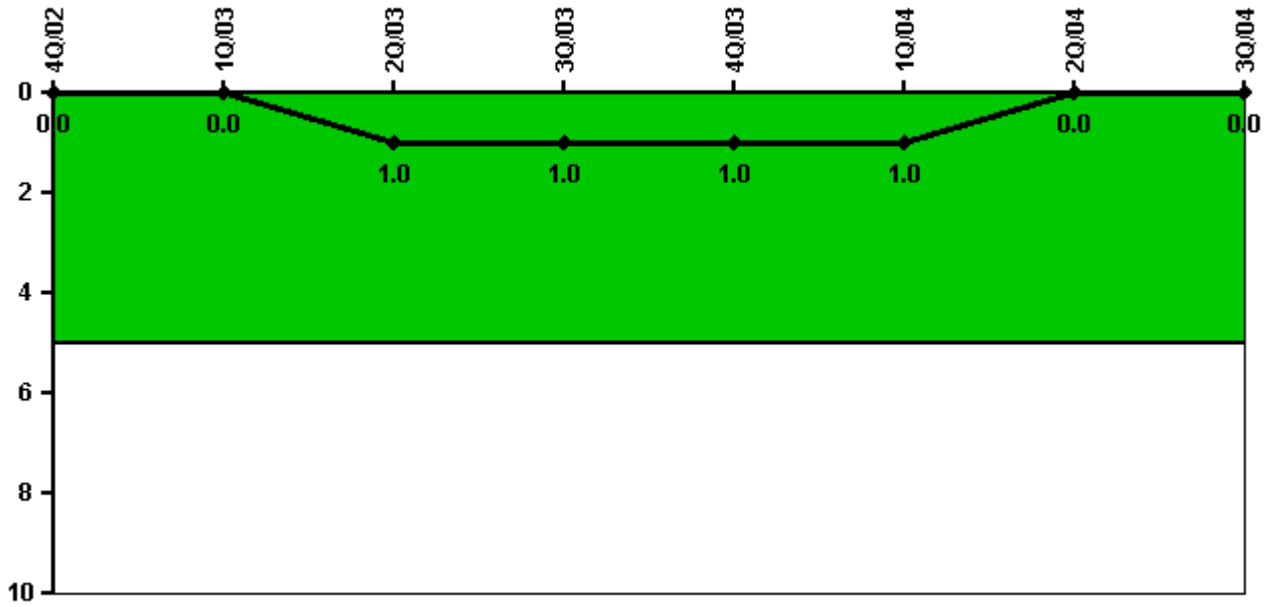
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	8.20	17.59	0.90	62.65	3.65	1.12	4.36	21.22
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31
Train 2								
Planned unavailable hours	0	3.38	0	0.05	0.47	0	1.30	9.88
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0.33	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	364.90	295.68	0	0	0	0	365.69
Train 4								
Planned unavailable hours	0	9.77	0	0	0	0	0	0
Unplanned unavailable hours	0	0.33	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	364.90	343.66	0	0	0	0	291.20
Indicator value	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)



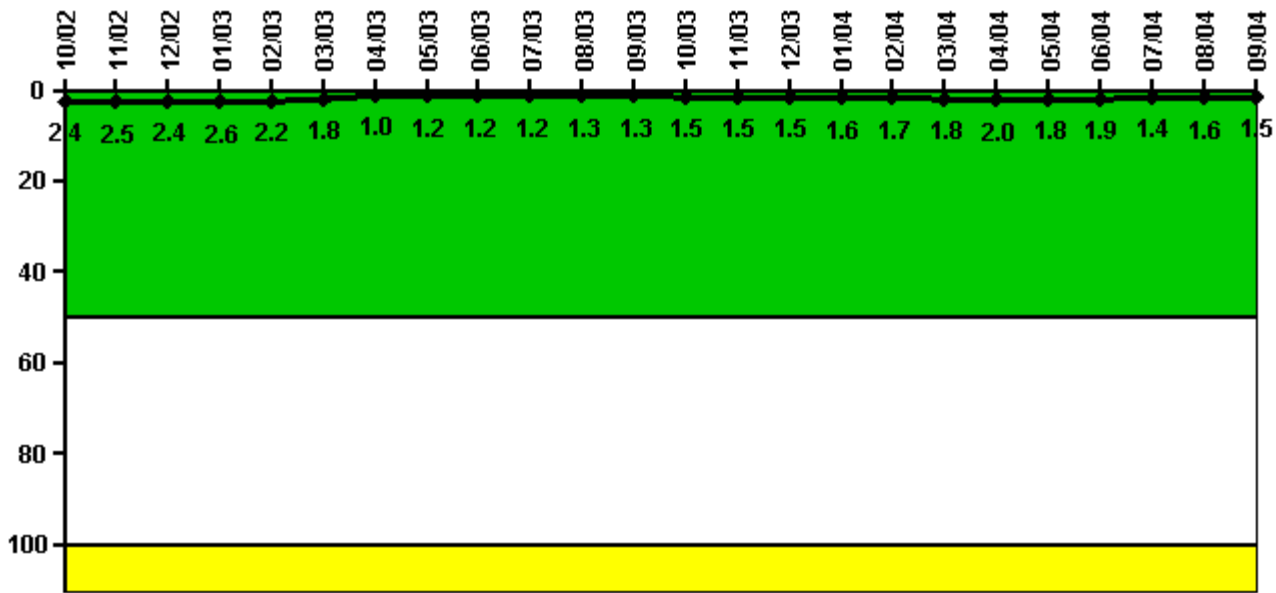
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



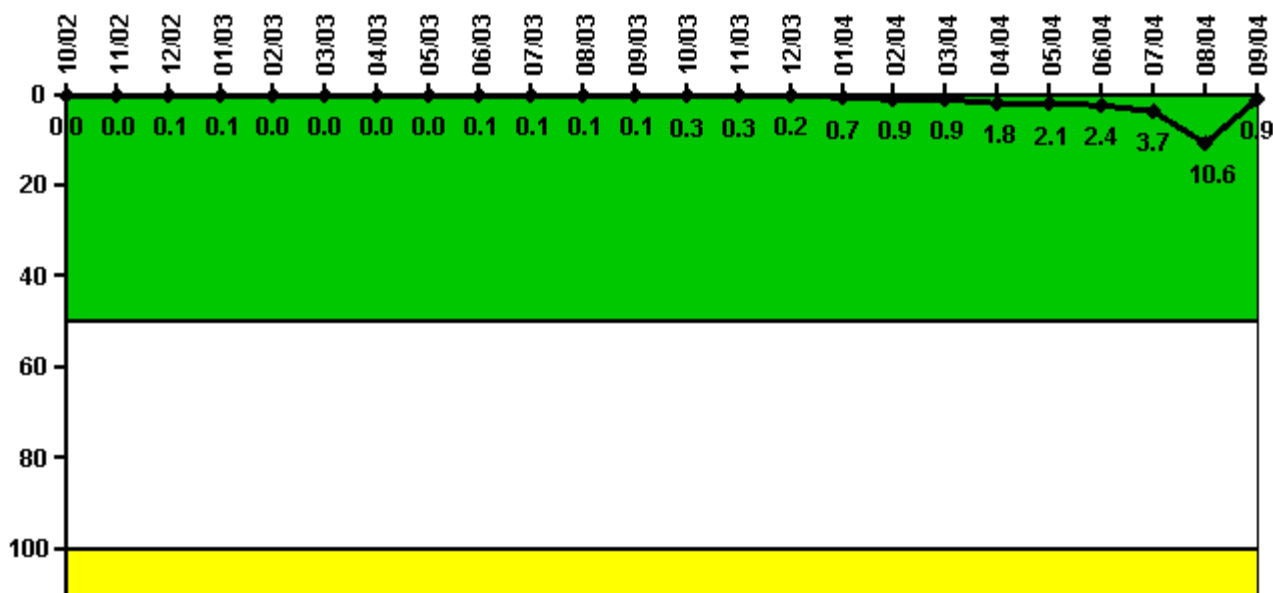
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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	0.023500	0.024700	0.024400	0.026000	0.022200	0.017900	0.009580	0.011800	0.011600	0.012200	0.012800	0.013300
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	2.4	2.5	2.4	2.6	2.2	1.8	1.0	1.2	1.2	1.2	1.3	1.3
Reactor Coolant System Activity	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum activity	0.014600	0.014900	0.015400	0.016100	0.016600	0.018400	0.019700	0.018400	0.018800	0.014000	0.016000	0.015000
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.5	1.5	1.5	1.6	1.7	1.8	2.0	1.8	1.9	1.4	1.6	1.5

Licensee Comments: none

Reactor Coolant System Leakage



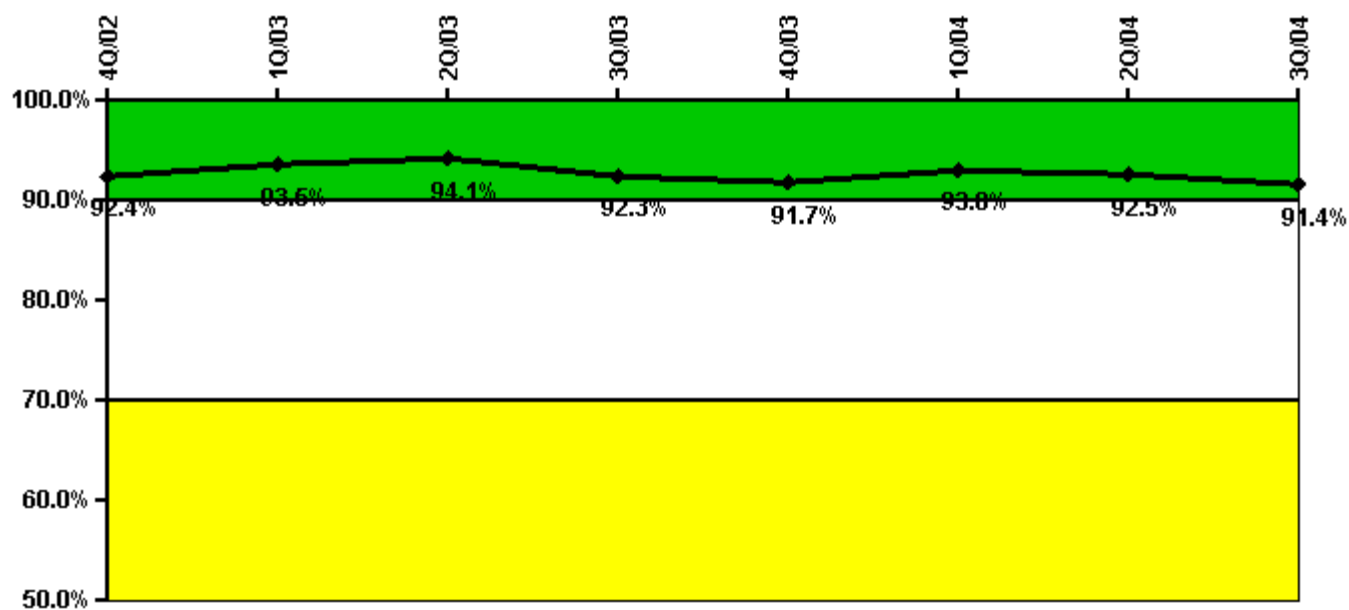
Thresholds: White > 50.0 Yellow > 100.0

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	0.001	0.001	0.005	0.005	0.001	0.001	0.002	0.002	0.007	0.013	0.013	0.011
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0.1	0.1	0	0	0	0	0.1	0.1	0.1	0.1
Reactor Coolant System Leakage	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	0.029	0.026	0.018	0.073	0.085	0.094	0.180	0.209	0.240	0.370	1.057	0.085
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.3	0.3	0.2	0.7	0.9	0.9	1.8	2.1	2.4	3.7	10.6	0.9

Licensee Comments: none

Drill/Exercise Performance



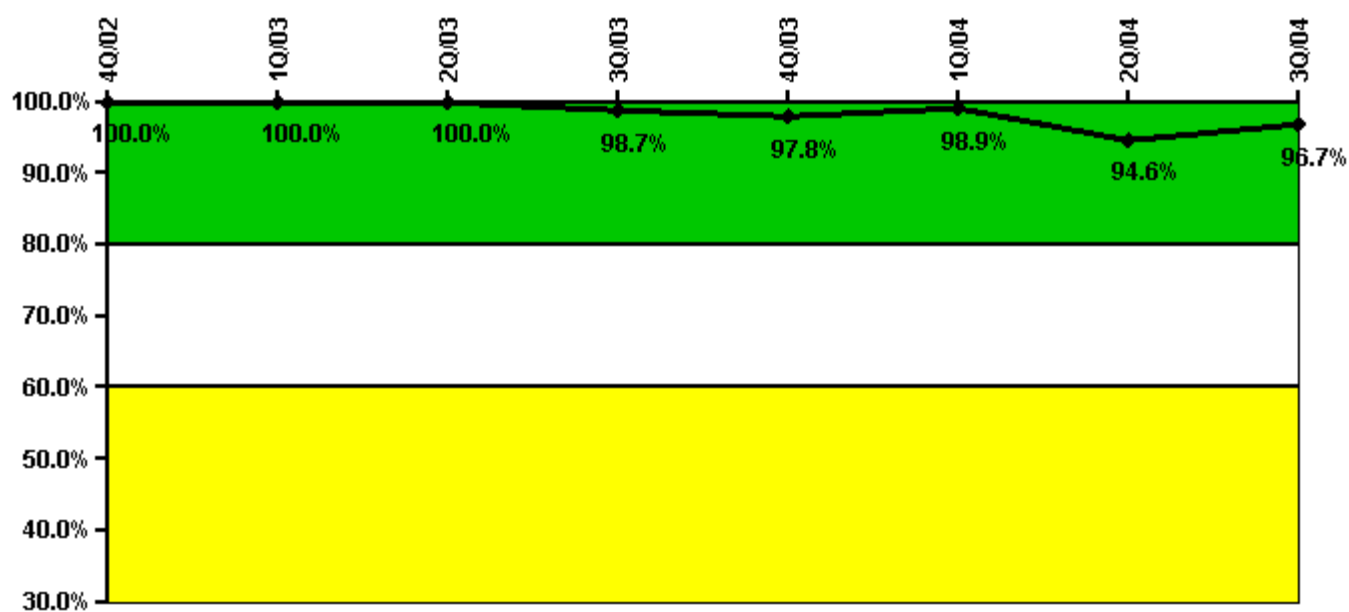
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful opportunities	24.0	38.0	18.0	41.0	28.0	23.0	27.0	25.0
Total opportunities	26.0	39.0	18.0	48.0	32.0	25.0	28.0	29.0
Indicator value	92.4%	93.5%	94.1%	92.3%	91.7%	93.0%	92.5%	91.4%

Licensee Comments: none

ERO Drill Participation



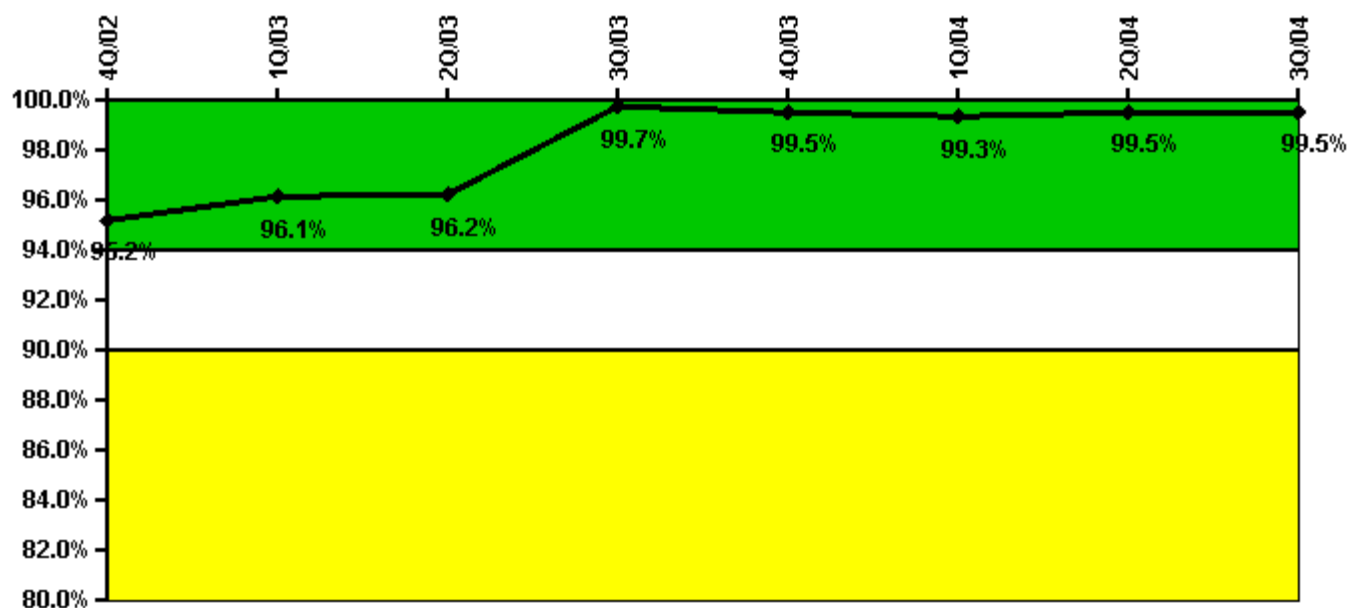
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Participating Key personnel	76.0	75.0	72.0	74.0	90.0	86.0	87.0	89.0
Total Key personnel	76.0	75.0	72.0	75.0	92.0	87.0	92.0	92.0
Indicator value	100.0%	100.0%	100.0%	98.7%	97.8%	98.9%	94.6%	96.7%

Licensee Comments: none

Alert & Notification System



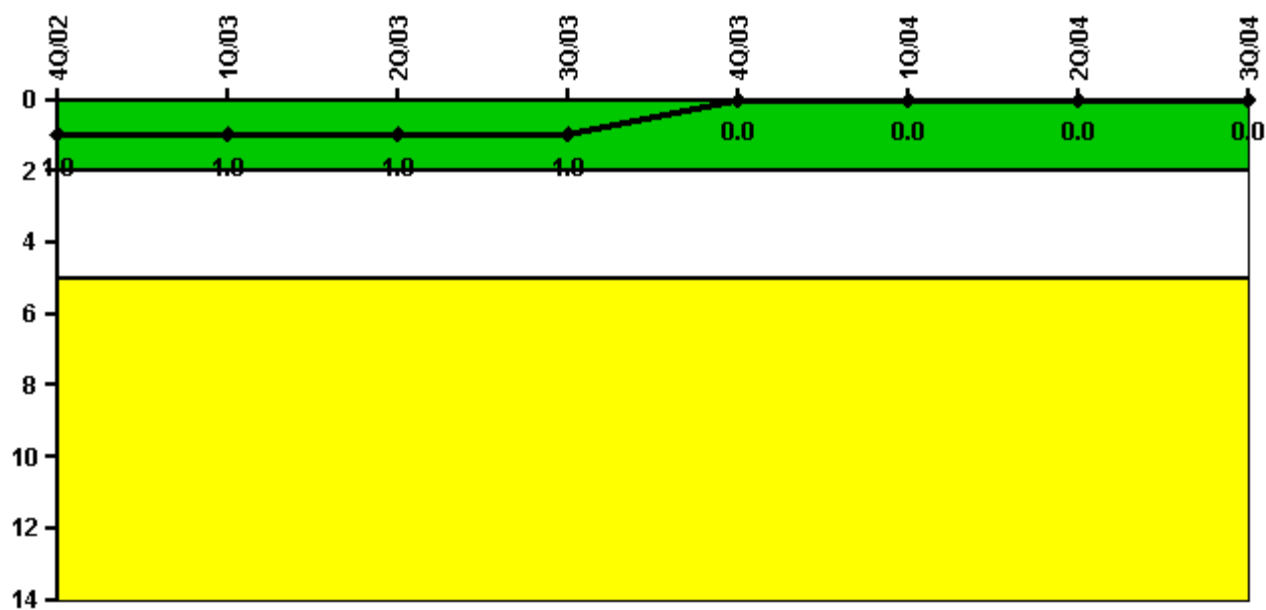
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful siren-tests	252	486	182	183	181	181	183	183
Total sirens-tests	252	488	183	183	183	183	183	183
Indicator value	95.2%	96.1%	96.2%	99.7%	99.5%	99.3%	99.5%	99.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness

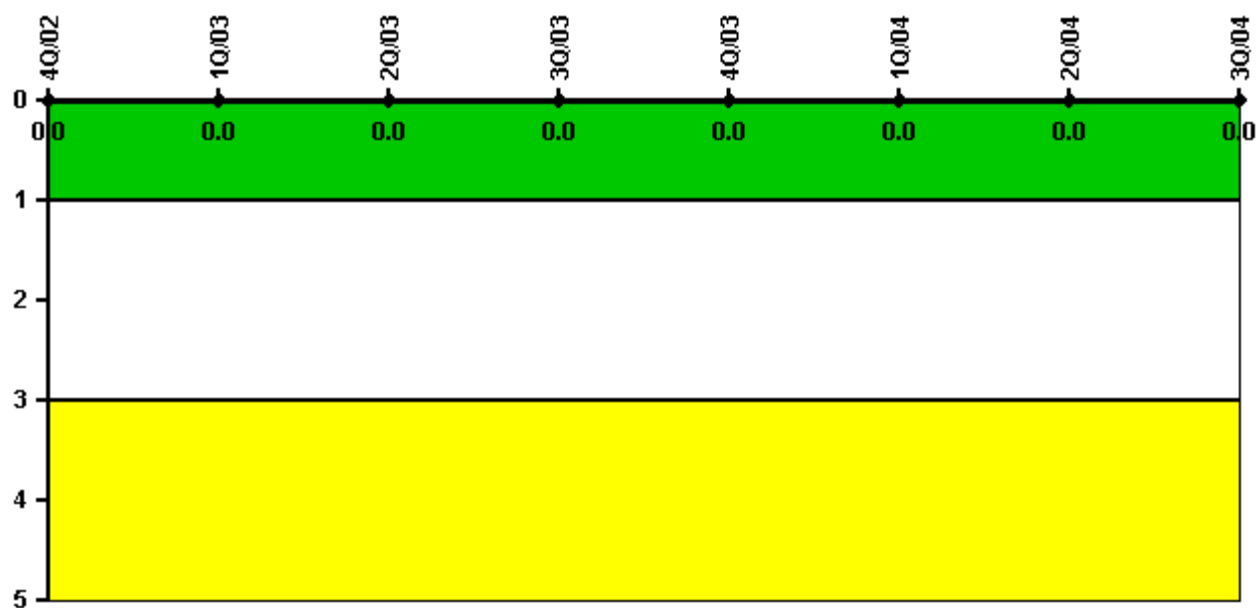


Thresholds: White > 2.0 Yellow > 5.0

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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](#)

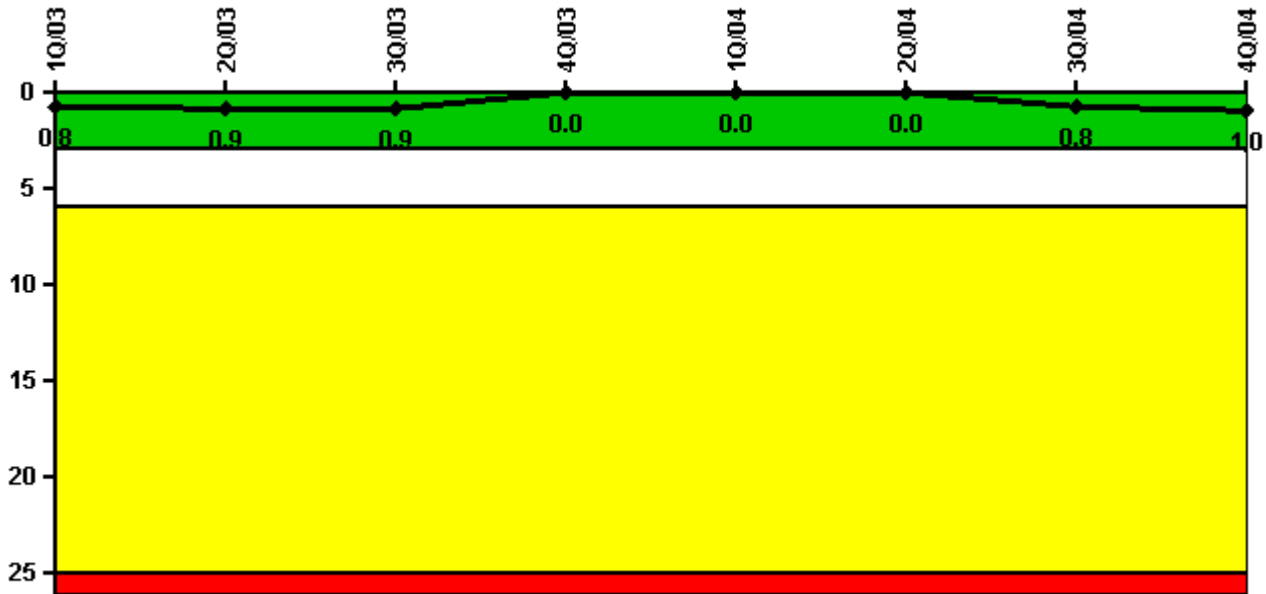
Last Modified: October 25, 2004

Palisades

4Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



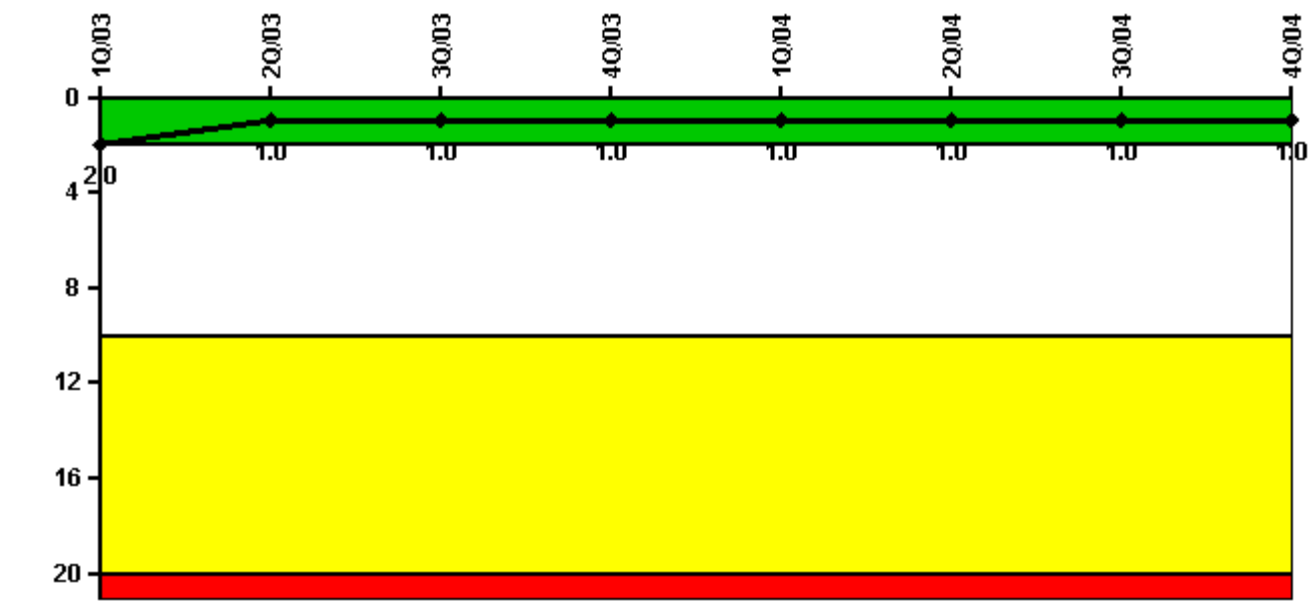
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	1782.4	1743.9	2208.0	2209.0	2184.0	2183.0	1756.4	1104.6
Indicator value	0.8	0.9	0.9	0	0	0	0.8	1.0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



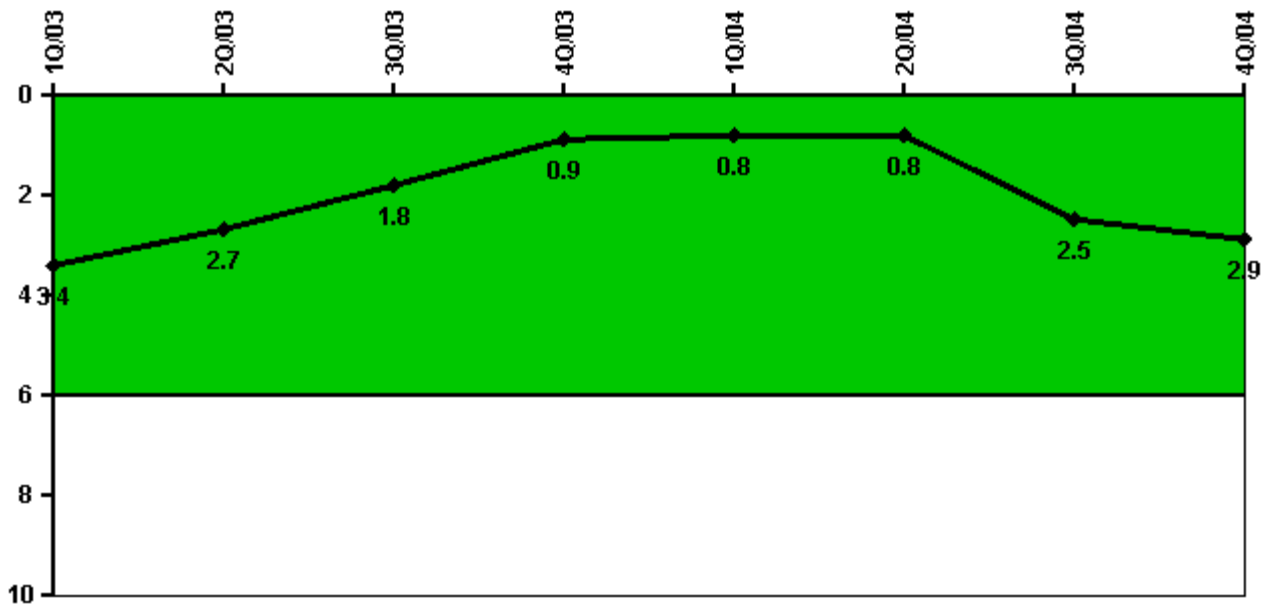
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



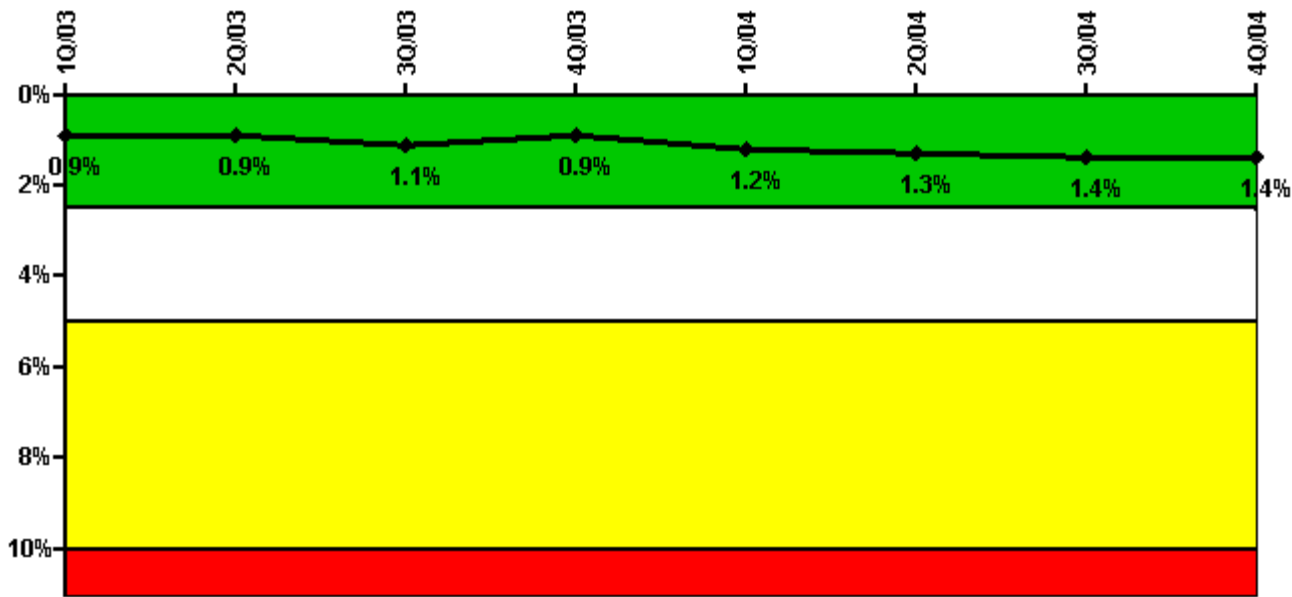
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned power changes	1.0	0	0	0	1.0	0	2.0	0
Critical hours	1782.4	1743.9	2208.0	2209.0	2184.0	2183.0	1756.4	1104.6
Indicator value	3.4	2.7	1.8	0.9	0.8	0.8	2.5	2.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



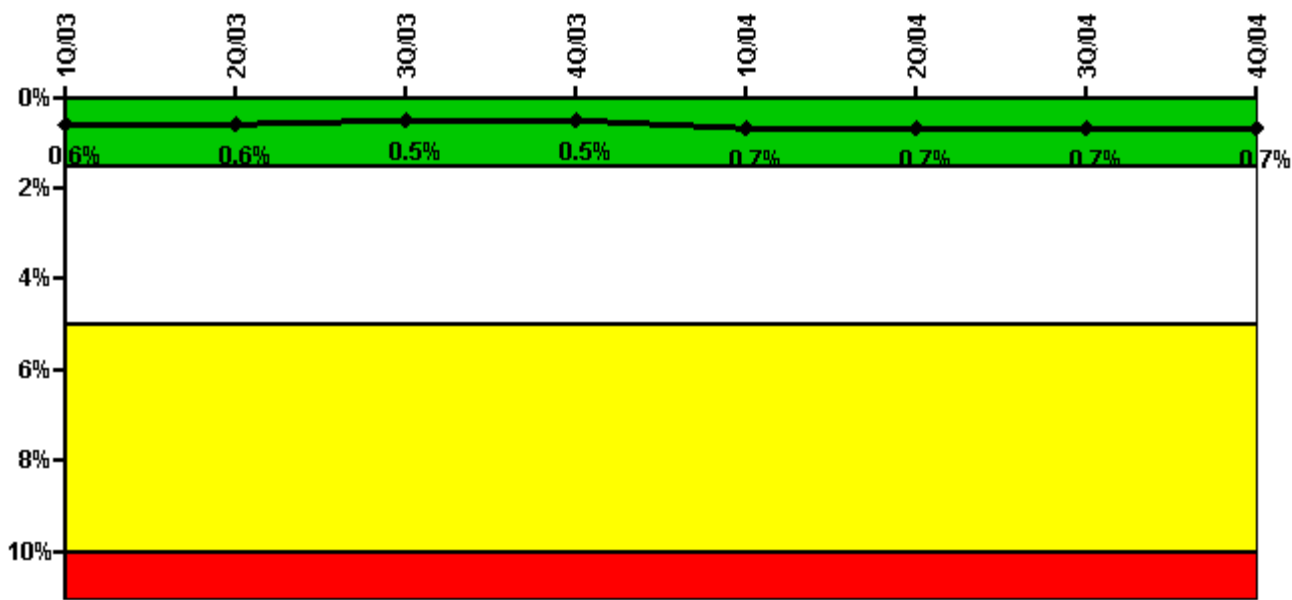
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	7.33	12.80	33.60	0.64	104.05	5.11	6.53	1.50
Unplanned unavailable hours	5.57	0	11.20	46.35	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	2.67	17.57	42.75	0.47	0.96	86.40	6.33	0.20
Unplanned unavailable hours	15.77	0	0	0	48.40	0	1.43	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
Indicator value	0.9%	0.9%	1.1%	0.9%	1.2%	1.3%	1.4%	1.4%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



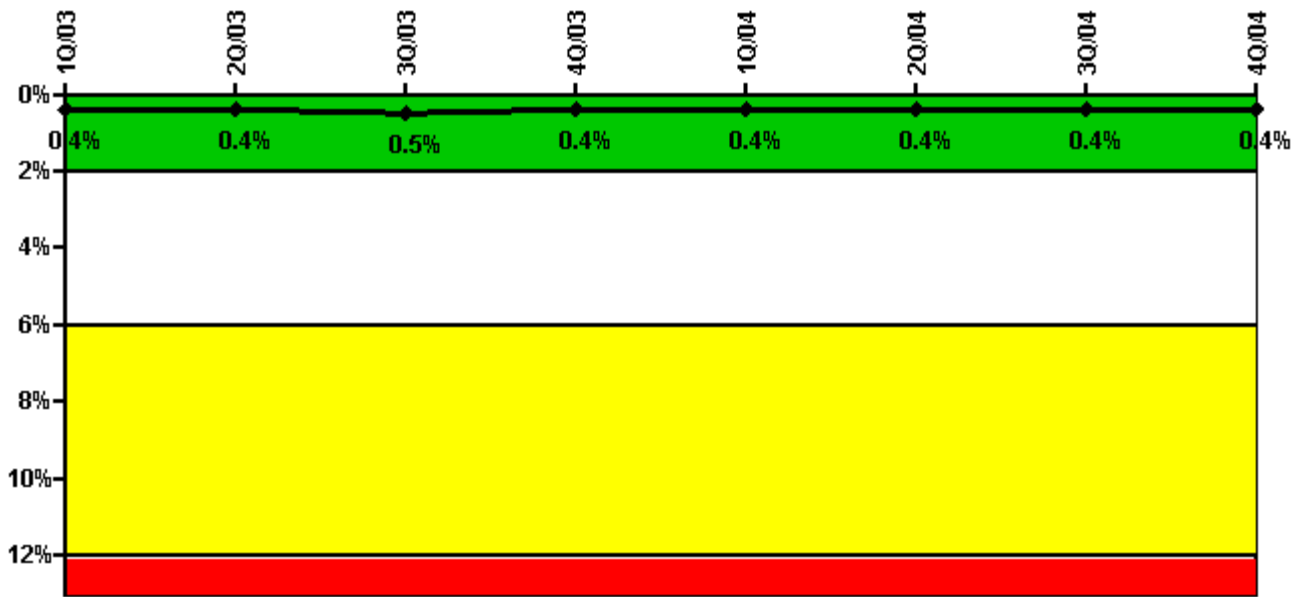
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	18.96	12.78	0	8.08	46.50	3.86	33.19	0.75
Unplanned unavailable hours	0	0	0	4.25	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	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47
Train 2								
Planned unavailable hours	6.29	0	2.40	0.47	30.65	7.15	18.44	0.97
Unplanned unavailable hours	0	0	43.57	0	0	8.60	0	0
Fault exposure hours	0	0	0	3.95	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47
Indicator value	0.6%	0.6%	0.5%	0.5%	0.7%	0.7%	0.7%	0.7%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	1.42	1.27	25.78	2.01	1.64	4.68	1.45	2.25
Unplanned unavailable hours	0.32	0	25.37	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47
Train 2								
Planned unavailable hours	1.88	15.51	18.57	2.05	6.97	5.13	1.33	2.32
Unplanned unavailable hours	0.32	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1776.03	1104.63
Train 3								
Planned unavailable hours	10.15	35.80	1.82	15.91	22.02	3.73	0.65	0
Unplanned unavailable hours	0.18	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47
Indicator value	0.4%	0.4%	0.5%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

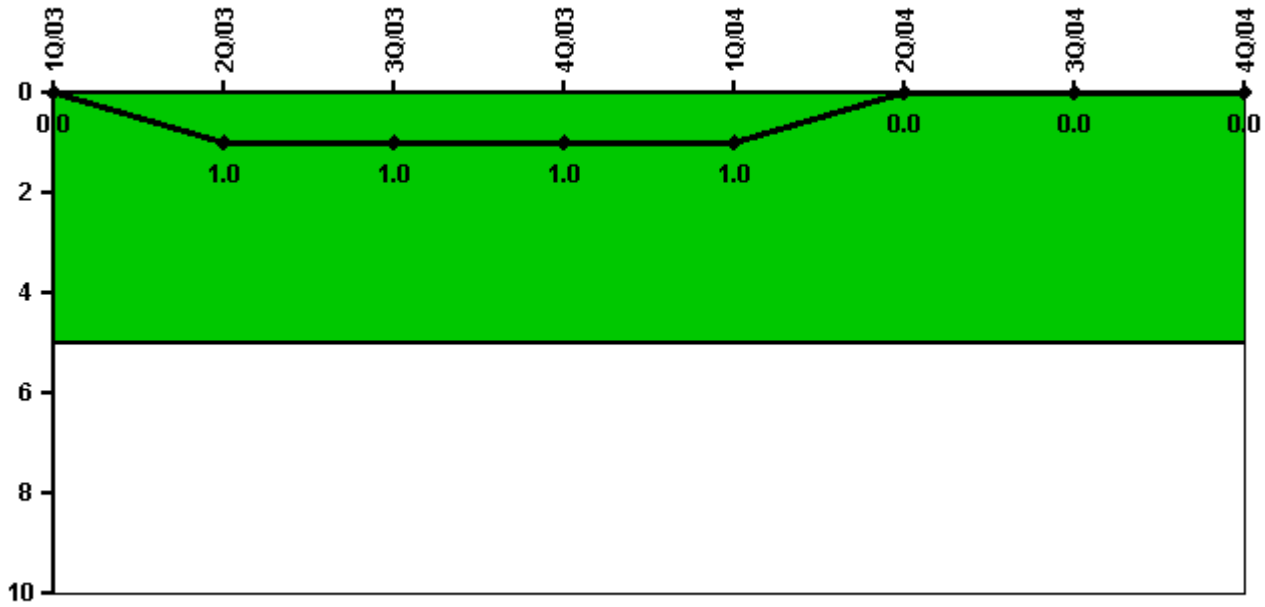
Grade Level	10/03	20/03	30/03	40/03	10/04	20/04	30/04	40/04
0%	1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.2%	0.3%
2%								
4%								
6%								
8%								
10%								

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	17.59	0.90	62.65	3.65	1.12	4.36	21.22	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	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47
Train 2								
Planned unavailable hours	3.38	0	0.05	0.47	0	1.30	9.88	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	1795.10	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0.33	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	364.90	295.68	0	0	0	0	365.69	845.47
Train 4								
Planned unavailable hours	9.77	0	0	0	0	0	0	0
Unplanned unavailable hours	0.33	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	364.90	343.66	0	0	0	0	291.20	1021.90
Indicator value	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.2%	0.3%

Licensee Comments: none

Safety System Functional Failures (PWR)



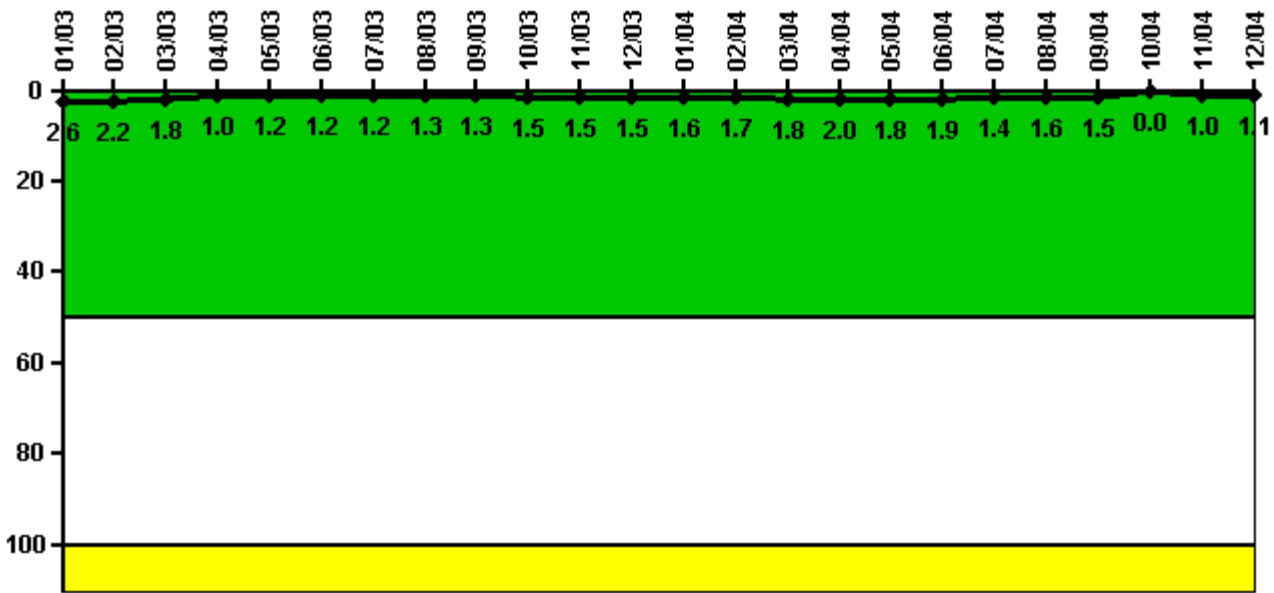
Thresholds: White > 5.0

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

Licensee Comments: none

Reactor Coolant System Activity



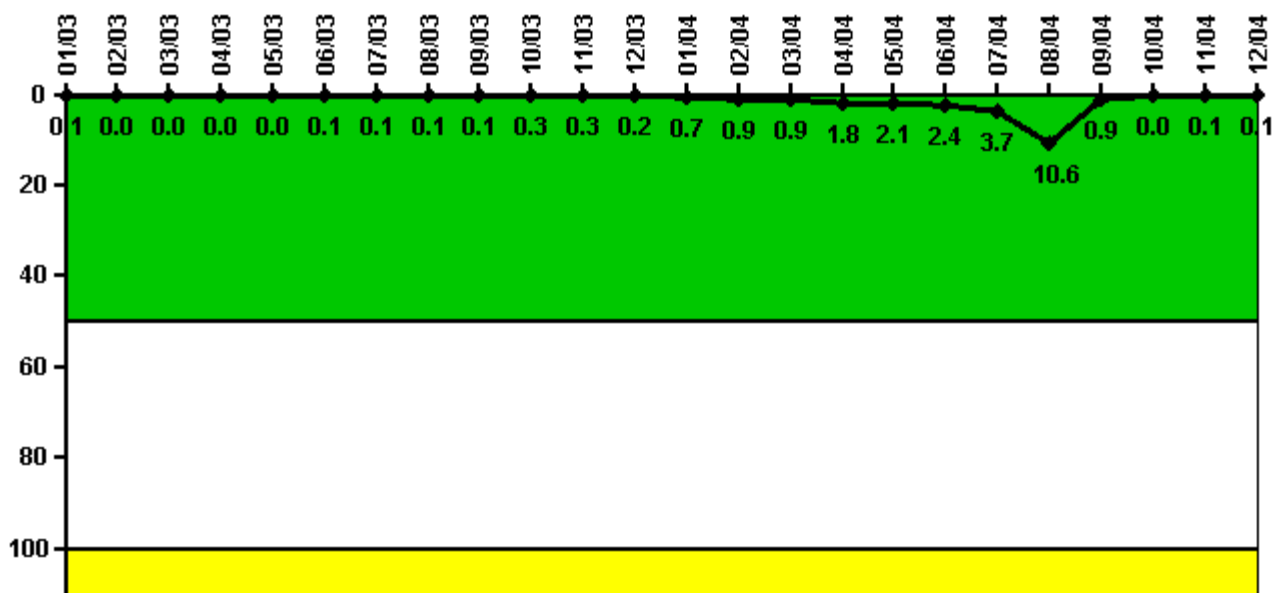
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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	0.026000	0.022200	0.017900	0.009580	0.011800	0.011600	0.012200	0.012800	0.013300	0.014600	0.014900	0.015400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	2.6	2.2	1.8	1.0	1.2	1.2	1.2	1.3	1.3	1.5	1.5	1.5
Reactor Coolant System Activity	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum activity	0.016100	0.016600	0.018400	0.019700	0.018400	0.018800	0.014000	0.016000	0.015000	0.000003	0.010100	0.011100
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.6	1.7	1.8	2.0	1.8	1.9	1.4	1.6	1.5	0	1.0	1.1

Licensee Comments: none

Reactor Coolant System Leakage



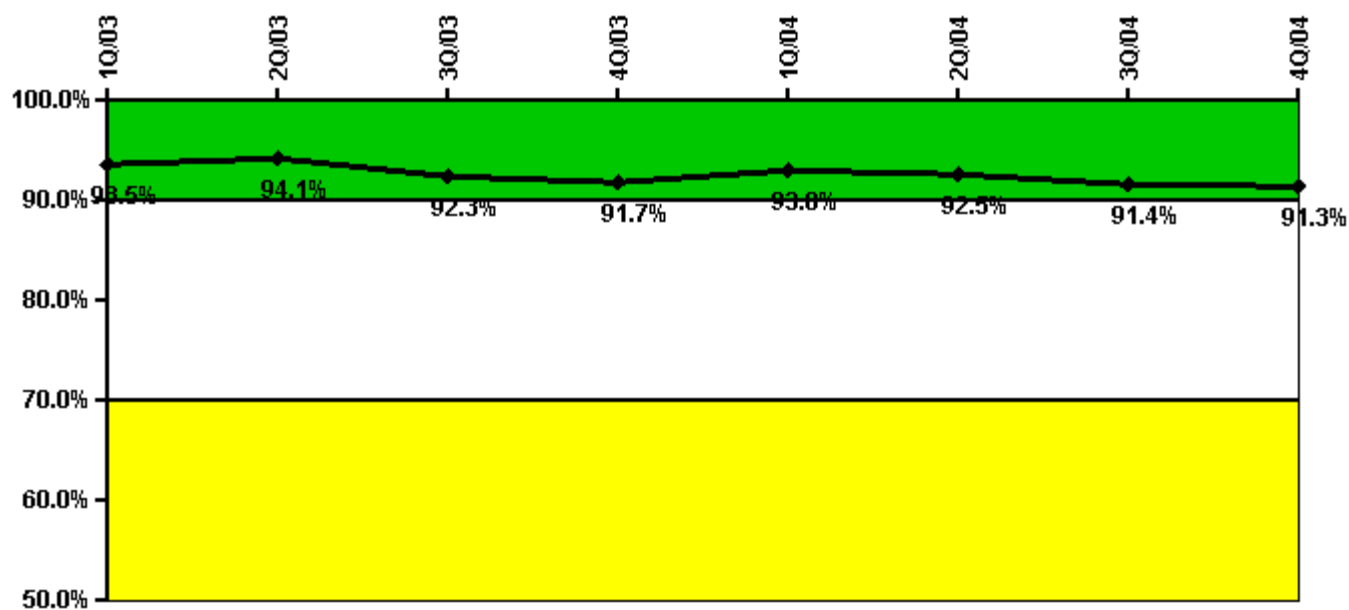
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum leakage	0.005	0.001	0.001	0.002	0.002	0.007	0.013	0.013	0.011	0.029	0.026	0.018
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	0	0	0	0	0.1	0.1	0.1	0.1	0.3	0.3	0.2
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	0.073	0.085	0.094	0.180	0.209	0.240	0.370	1.057	0.085	0	0.005	0.011
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.9	0.9	1.8	2.1	2.4	3.7	10.6	0.9	0	0.1	0.1

Licensee Comments: none

Drill/Exercise Performance



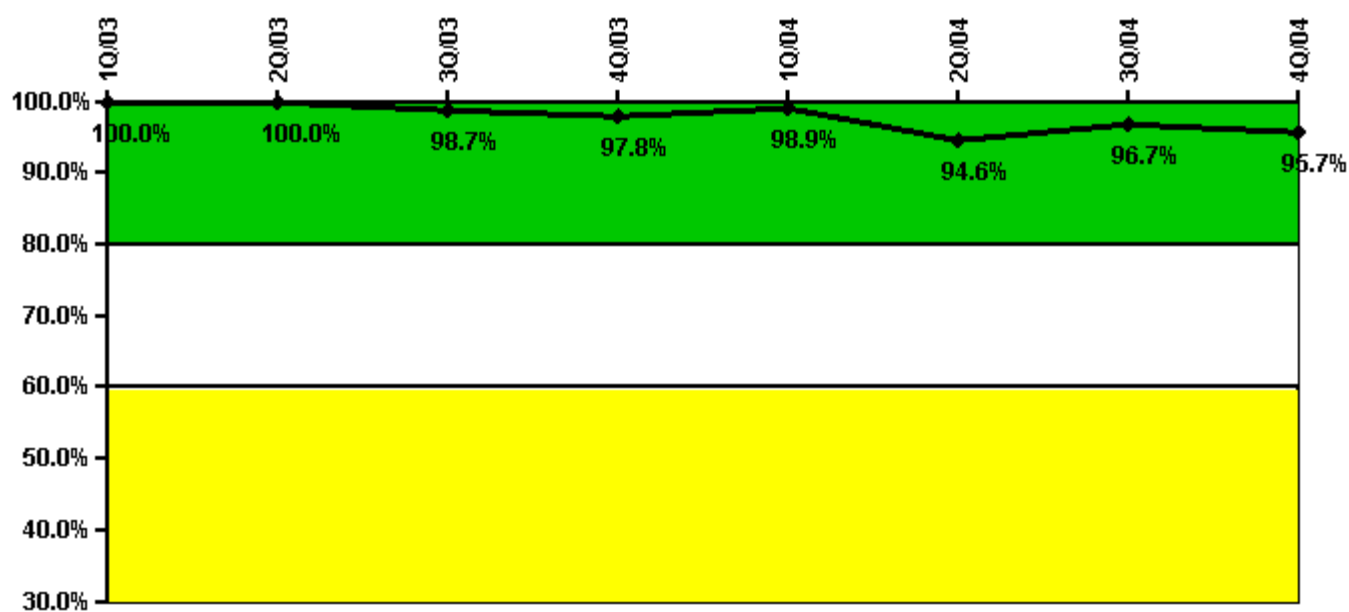
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful opportunities	38.0	18.0	41.0	28.0	23.0	27.0	25.0	11.0
Total opportunities	39.0	18.0	48.0	32.0	25.0	28.0	29.0	12.0
Indicator value	93.5%	94.1%	92.3%	91.7%	93.0%	92.5%	91.4%	91.3%

Licensee Comments: none

ERO Drill Participation



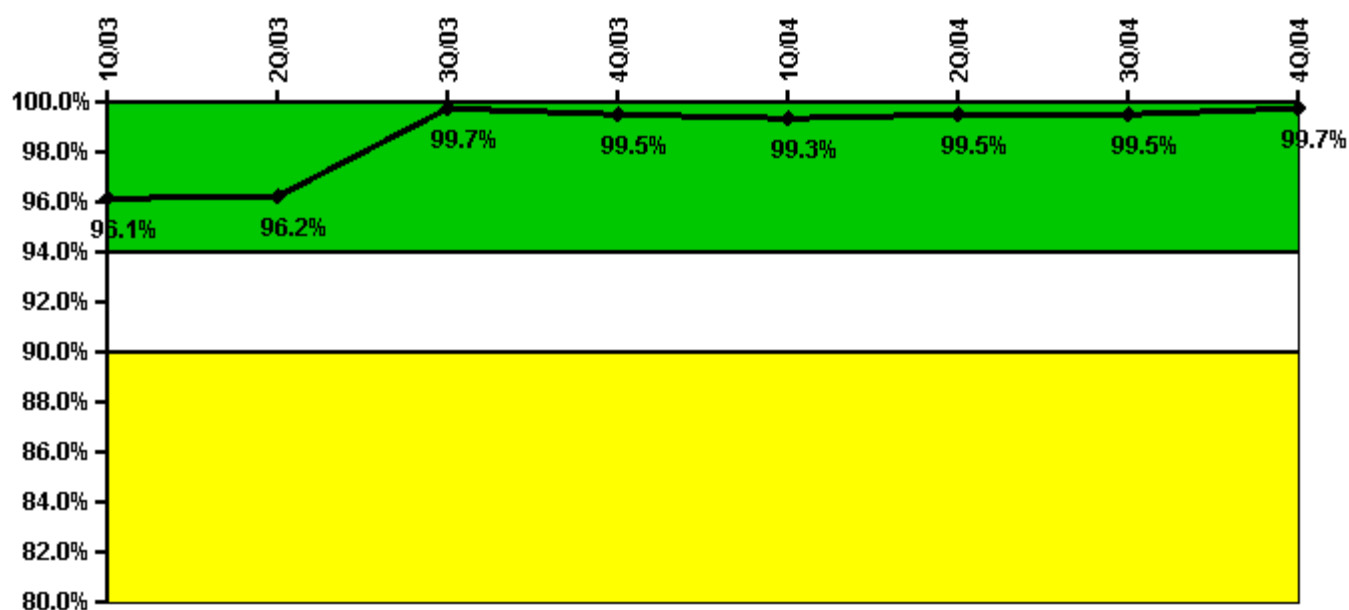
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Participating Key personnel	75.0	72.0	74.0	90.0	86.0	87.0	89.0	88.0
Total Key personnel	75.0	72.0	75.0	92.0	87.0	92.0	92.0	92.0
Indicator value	100.0%	100.0%	98.7%	97.8%	98.9%	94.6%	96.7%	95.7%

Licensee Comments: none

Alert & Notification System



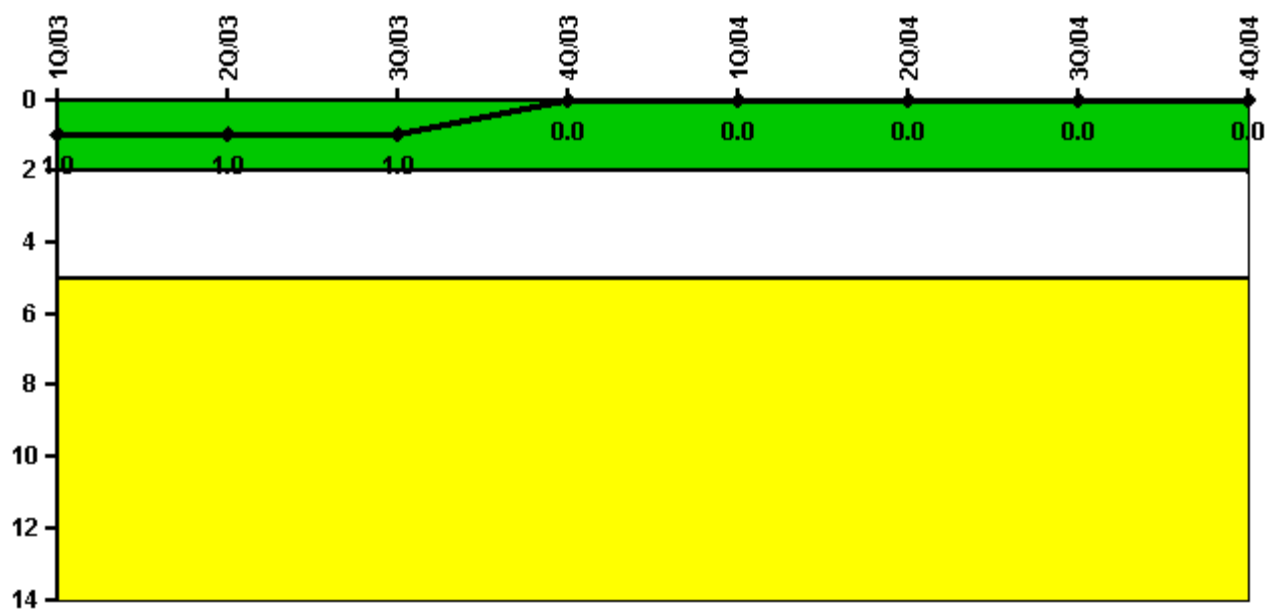
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful siren-tests	486	182	183	181	181	183	183	183
Total sirens-tests	488	183	183	183	183	183	183	183
Indicator value	96.1%	96.2%	99.7%	99.5%	99.3%	99.5%	99.5%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



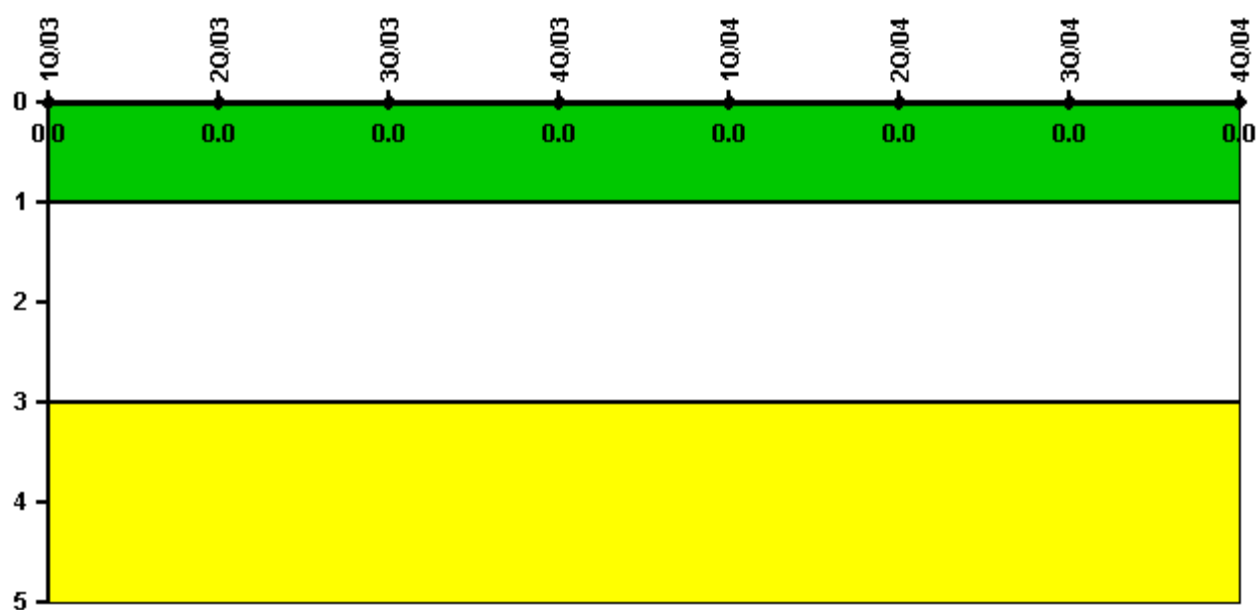
Thresholds: White > 2.0 Yellow > 5.0

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	1	1	1	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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](#)

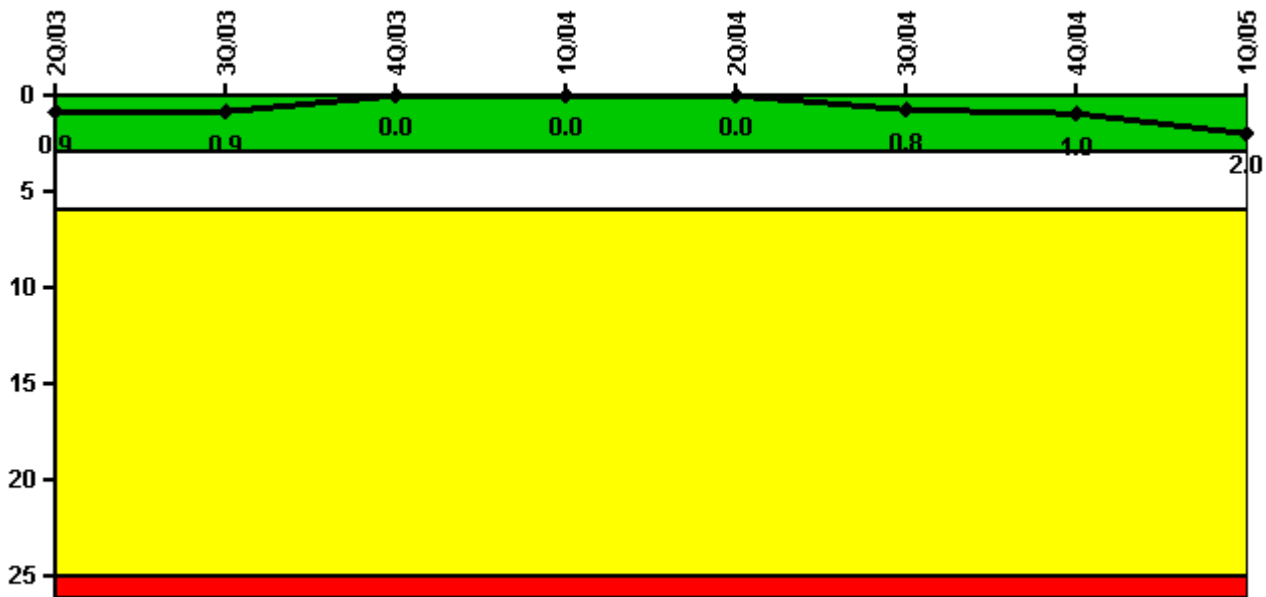
Last Modified: March 9, 2005

Palisades

1Q/2005 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



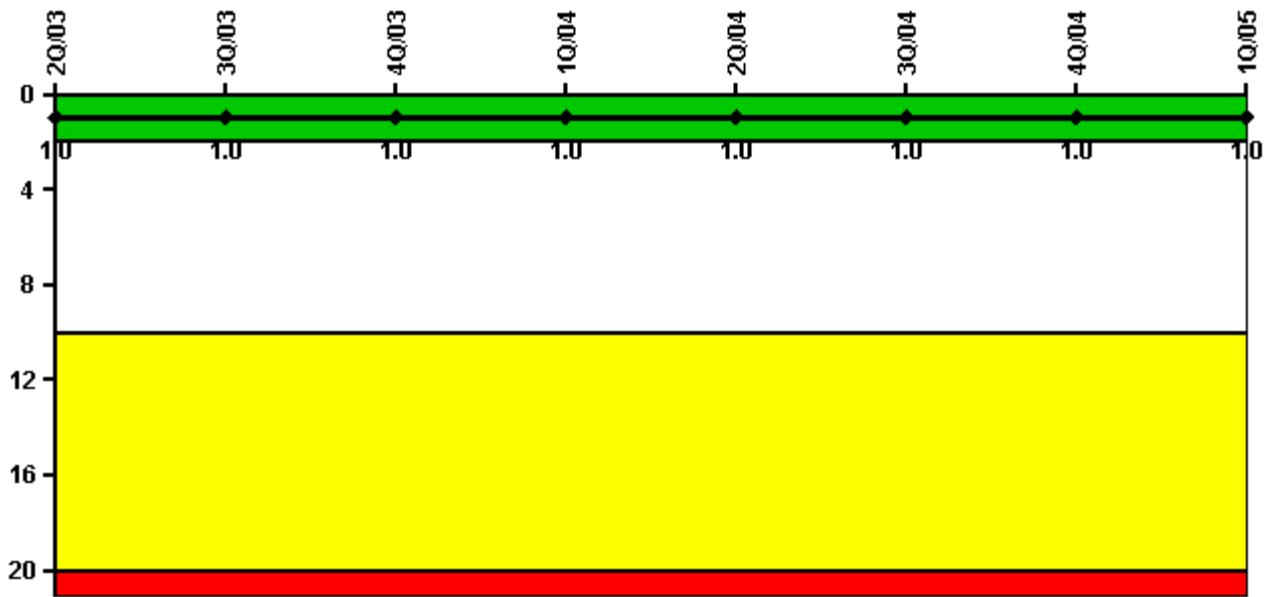
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	1.0	0	1.0
Critical hours	1743.9	2208.0	2209.0	2184.0	2183.0	1756.4	1104.6	2039.5
Indicator value	0.9	0.9	0	0	0	0.8	1.0	2.0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



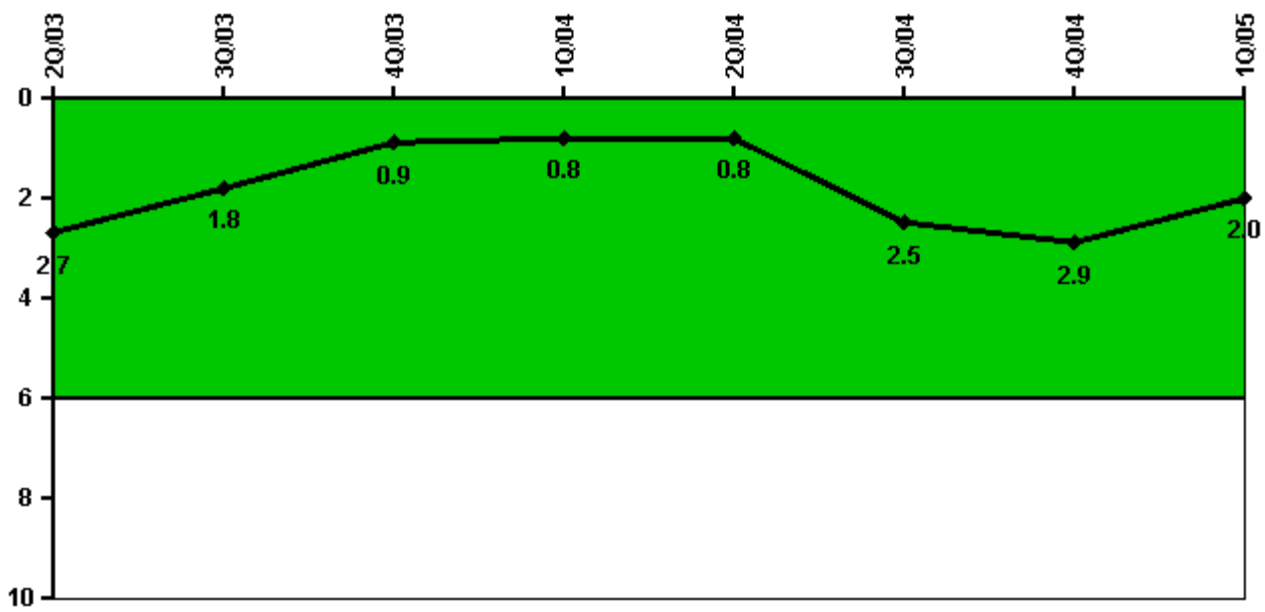
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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



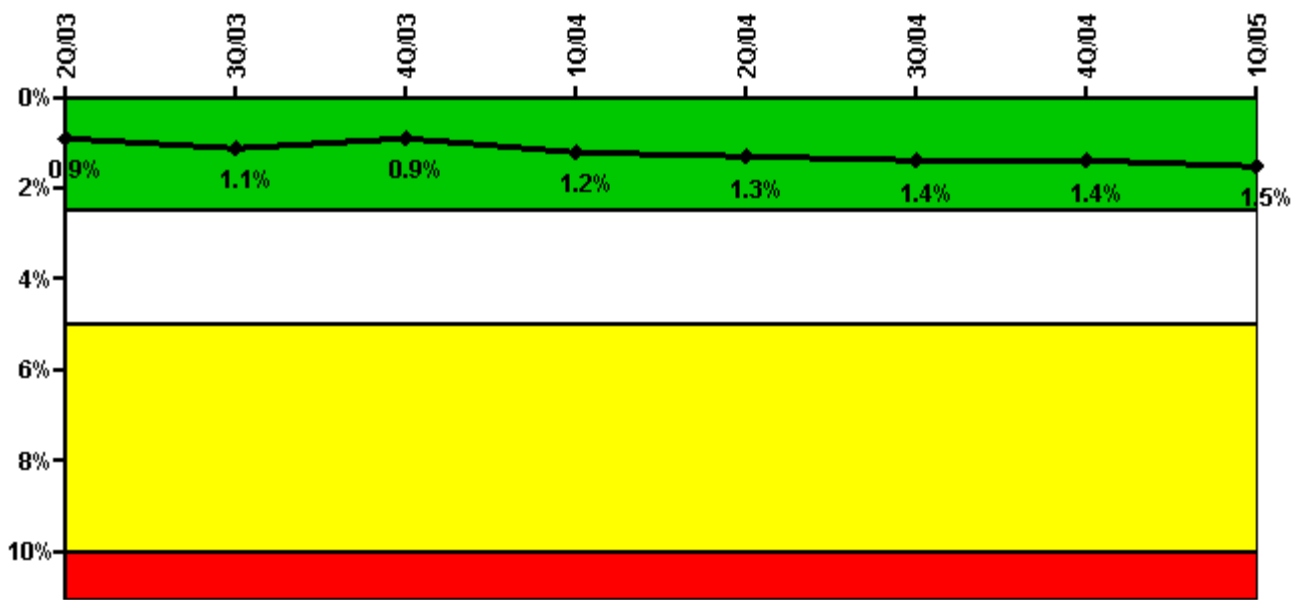
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Unplanned power changes	0	0	0	1.0	0	2.0	0	0
Critical hours	1743.9	2208.0	2209.0	2184.0	2183.0	1756.4	1104.6	2039.5
Indicator value	2.7	1.8	0.9	0.8	0.8	2.5	2.9	2.0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

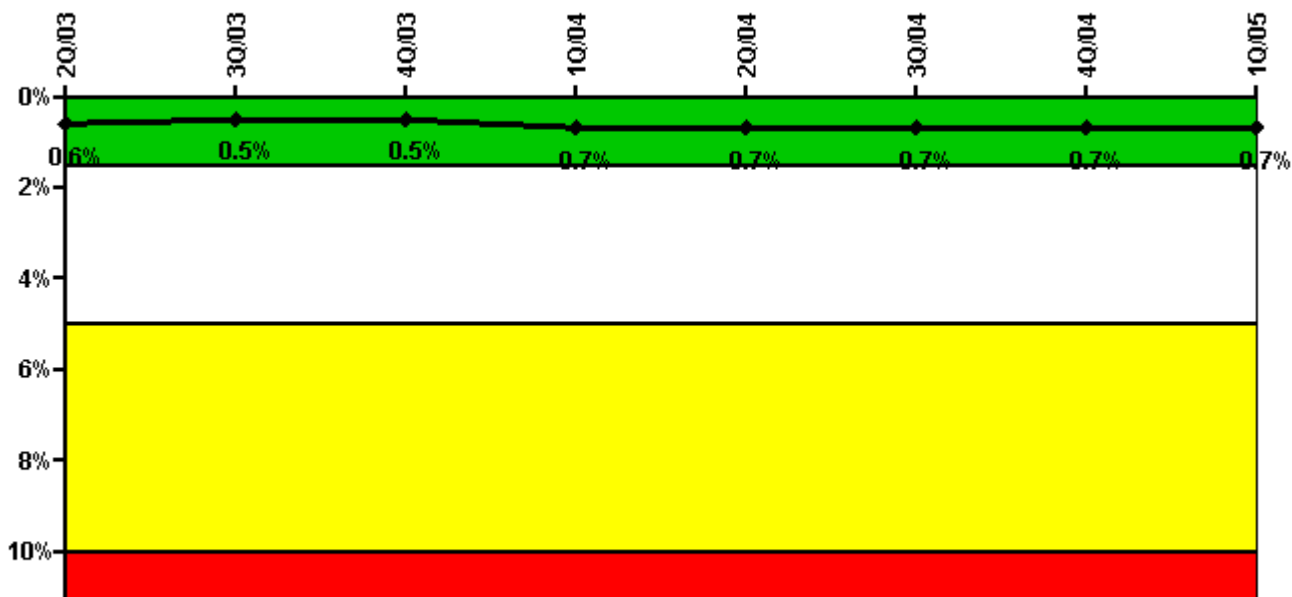
Notes

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	12.80	33.60	0.64	104.05	5.11	6.53	1.50	11.95
Unplanned unavailable hours	0	11.20	46.35	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	17.57	42.75	0.47	0.96	86.40	6.33	0.20	10.67
Unplanned unavailable hours	0	0	0	48.40	0	1.43	0	46.13
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	0.9%	1.1%	0.9%	1.2%	1.3%	1.4%	1.4%	1.5%

Licensee Comments:

1Q/05: MS01, Train 2: Fault exposure of 162,048 hours is reported. On 2/17/05 Palisades identified that a pressurizer heater breaker 152-211 control circuit would allow, under certain accident conditions, the breaker to re-close. The re-closure could potentially overload the Train 2 Emergency Diesel generator resulting in an over current condition and subsequent trip of the Emergency diesel generator output breaker. On 2/19/05 a temporary modification was installed to the pressurizer heater breaker 152-211 control circuit. The modification changed the breaker control circuit and prevents the potential re-closure of the pressurizer heater breaker. Reference Palisades Action Request CAP046764. Fault Exposure hours are recorded from the time the pressurizer heater control circuit was modified on 8/24/86 until identification of the design issue. Fault exposure hours for this period are calculated as 6,752 days or 162,048 hours. This period is a conservative estimate and includes the time, which only one EDG was required to be available. Per NEI 99-02, revision 2, page 33 lines 17 - 23, failures that are not capable of being discovered during normal surveillance tests, are amenable to evaluation through the NRC's Significant Determination Process and are excluded from the unavailability indicators. The failure and the associated Fault Exposure hours should be reported in the comment field of the PI data submittal. Unplanned Unavailability has been reported from the time the design issue was identified until the EDG was declared operable. Specifically 18:34 on 2/17/05 until 16:42 on 2/19/05.

Safety System Unavailability, High Pressure Injection System (HPSI)



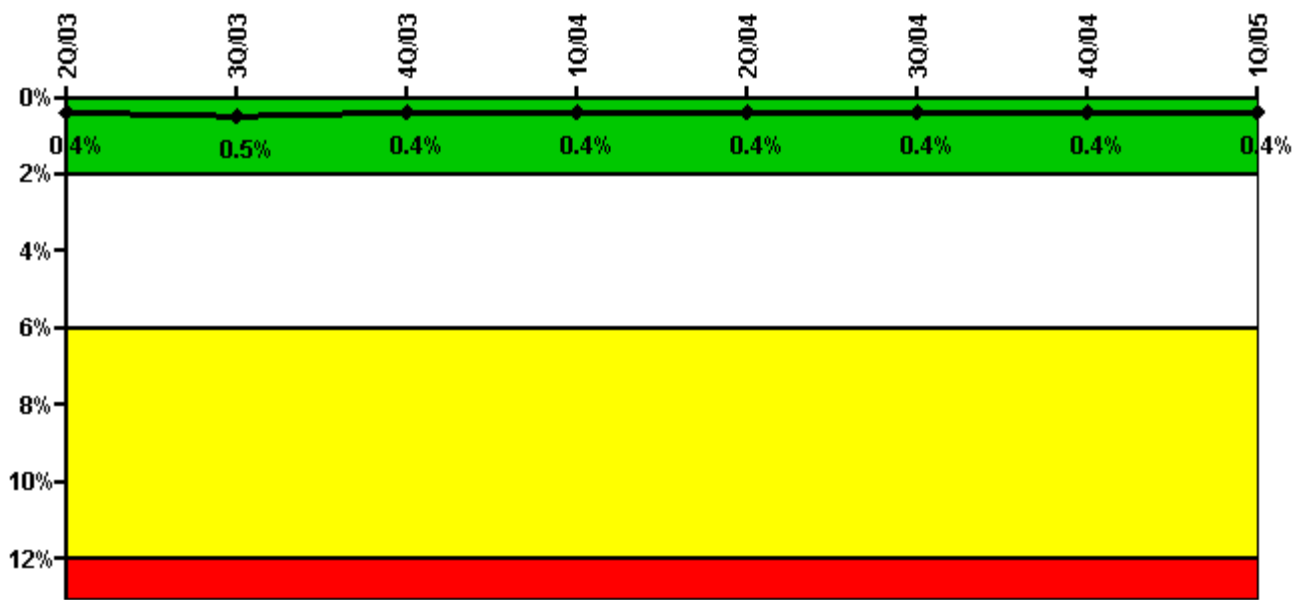
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	12.78	0	8.08	46.50	3.86	33.19	0.75	3.78
Unplanned unavailable hours	0	0	4.25	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	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47	2160.00
Train 2								
Planned unavailable hours	0	2.40	0.47	30.65	7.15	18.44	0.97	9.60
Unplanned unavailable hours	0	43.57	0	0	8.60	0	0	0
Fault exposure hours	0	0	3.95	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47	2160.00
Indicator value	0.6%	0.5%	0.5%	0.7%	0.7%	0.7%	0.7%	0.7%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



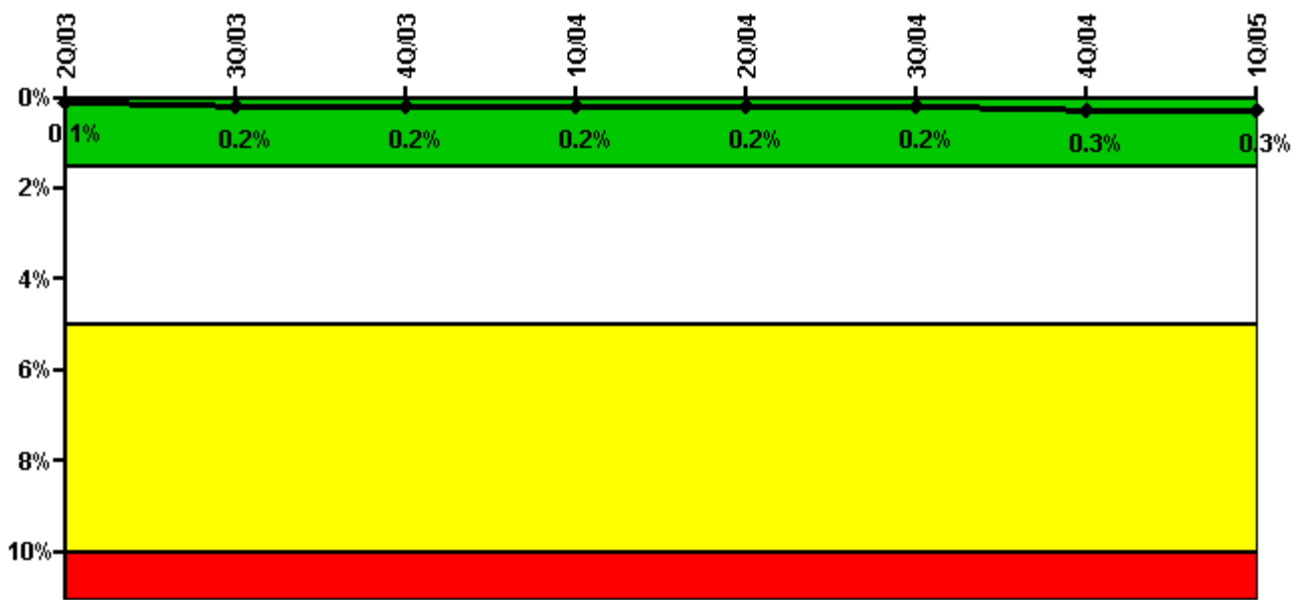
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	1.27	25.78	2.01	1.64	4.68	1.45	2.25	3.08
Unplanned unavailable hours	0	25.37	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47	2160.00
Train 2								
Planned unavailable hours	15.51	18.57	2.05	6.97	5.13	1.33	2.32	15.12
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1777.52	2208.00	2209.00	2184.00	2183.00	1776.03	1104.63	2160.00
Train 3								
Planned unavailable hours	35.80	1.82	15.91	22.02	3.73	0.65	0	14.02
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	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47	2160.00
Indicator value	0.4%	0.5%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



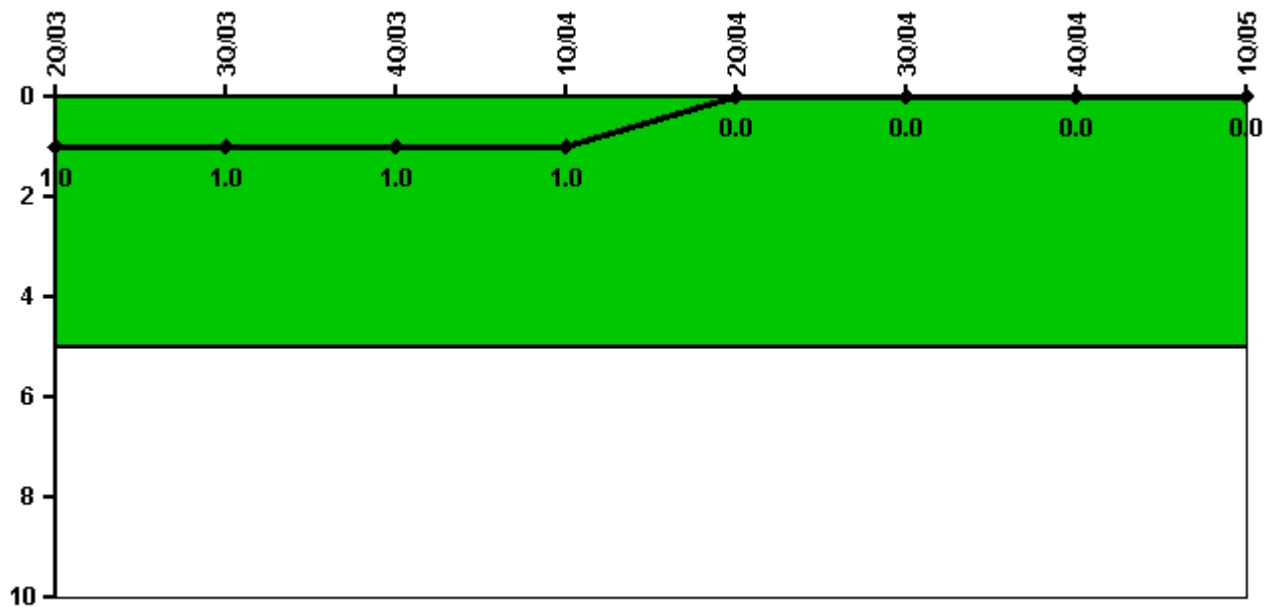
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	0.90	62.65	3.65	1.12	4.36	21.22	0.60	19.37
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	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47	2160.00
Train 2								
Planned unavailable hours	0	0.05	0.47	0	1.30	9.88	0	3.02
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1777.52	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47	2160.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	295.68	0	0	0	0	365.69	845.47	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	343.66	0	0	0	0	291.20	1021.90	0
Indicator value	0.1%	0.2%	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%

Licensee Comments: none

Safety System Functional Failures (PWR)



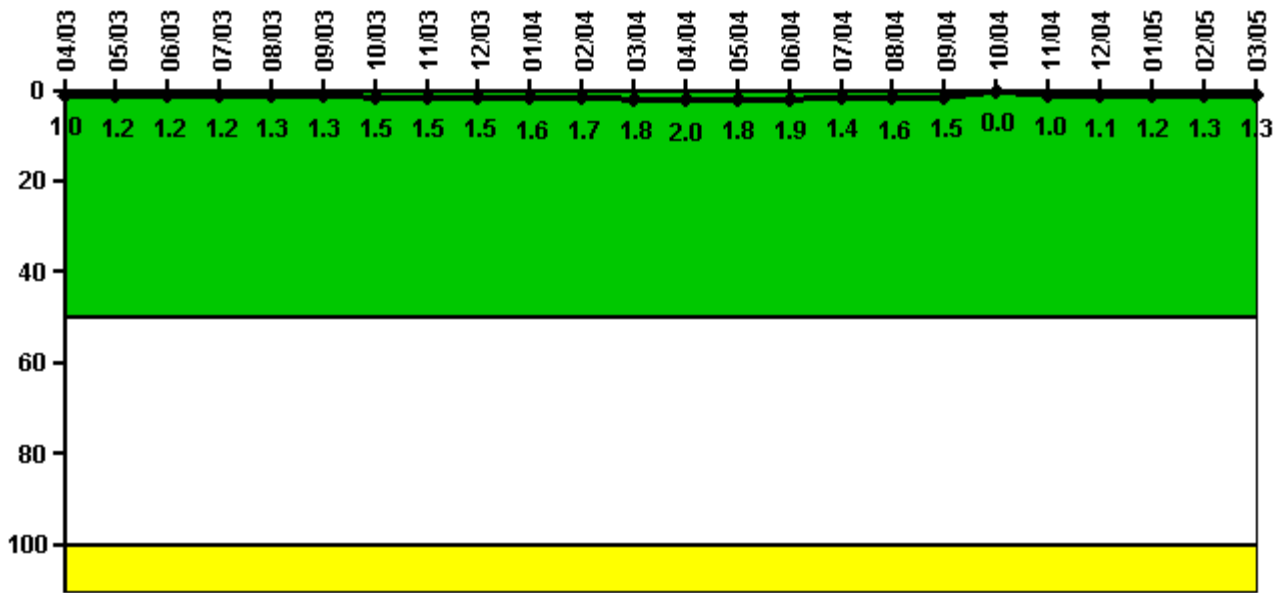
Thresholds: White > 5.0

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

Licensee Comments: none

Reactor Coolant System Activity



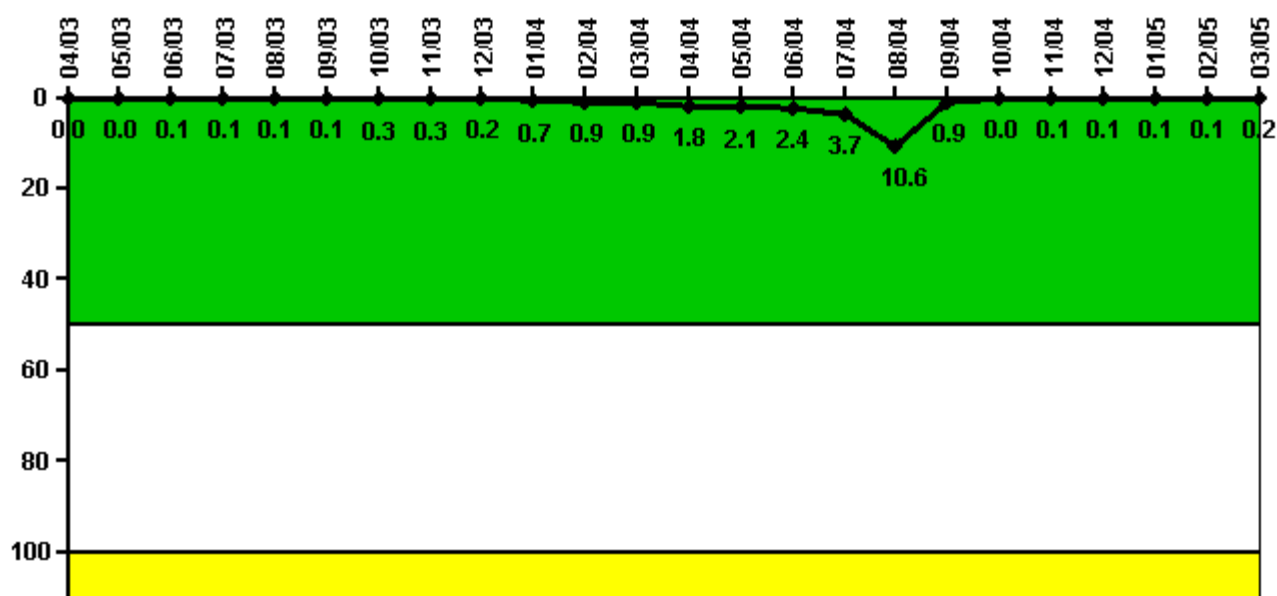
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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	0.009580	0.011800	0.011600	0.012200	0.012800	0.013300	0.014600	0.014900	0.015400	0.016100	0.016600	0.018400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.0	1.2	1.2	1.2	1.3	1.3	1.5	1.5	1.5	1.6	1.7	1.8
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	0.019700	0.018400	0.018800	0.014000	0.016000	0.015000	0.000003	0.010100	0.011100	0.012300	0.012600	0.013100
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	2.0	1.8	1.9	1.4	1.6	1.5	0	1.0	1.1	1.2	1.3	1.3

Licensee Comments: none

Reactor Coolant System Leakage



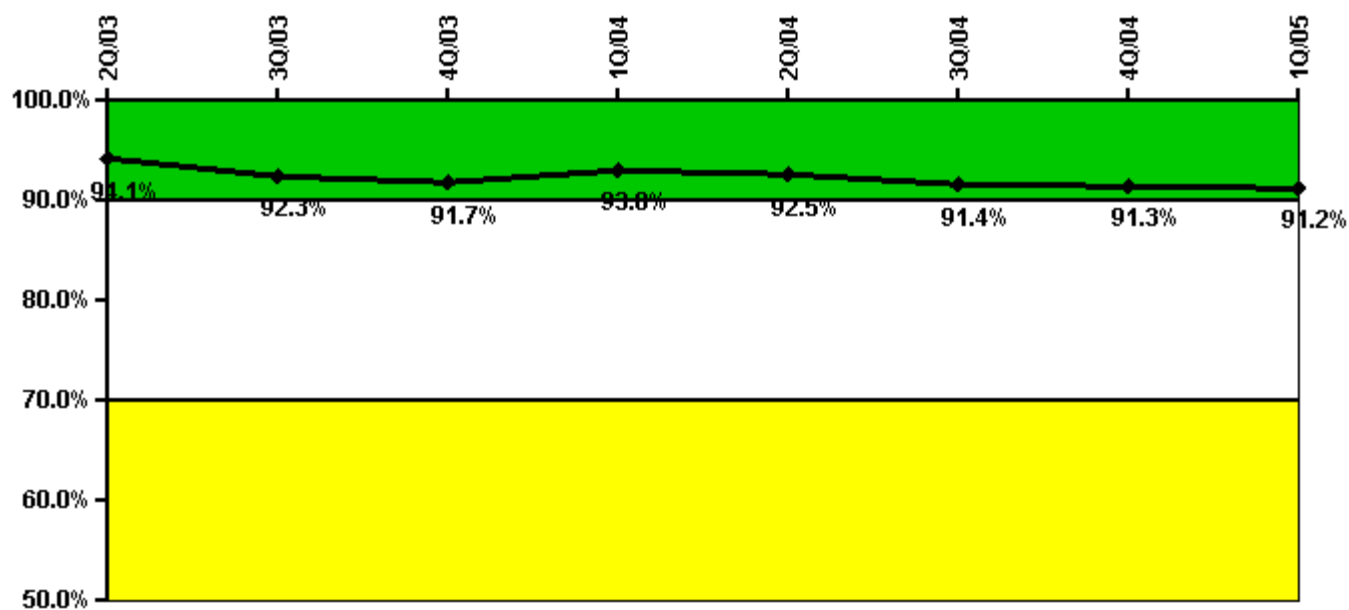
Thresholds: White > 50.0 Yellow > 100.0

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	0.002	0.002	0.007	0.013	0.013	0.011	0.029	0.026	0.018	0.073	0.085	0.094
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0.1	0.1	0.1	0.1	0.3	0.3	0.2	0.7	0.9	0.9
Reactor Coolant System Leakage	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05
Maximum leakage	0.180	0.209	0.240	0.370	1.057	0.085	0	0.005	0.011	0.011	0.008	0.020
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.8	2.1	2.4	3.7	10.6	0.9	0	0.1	0.1	0.1	0.1	0.2

Licensee Comments: none

Drill/Exercise Performance



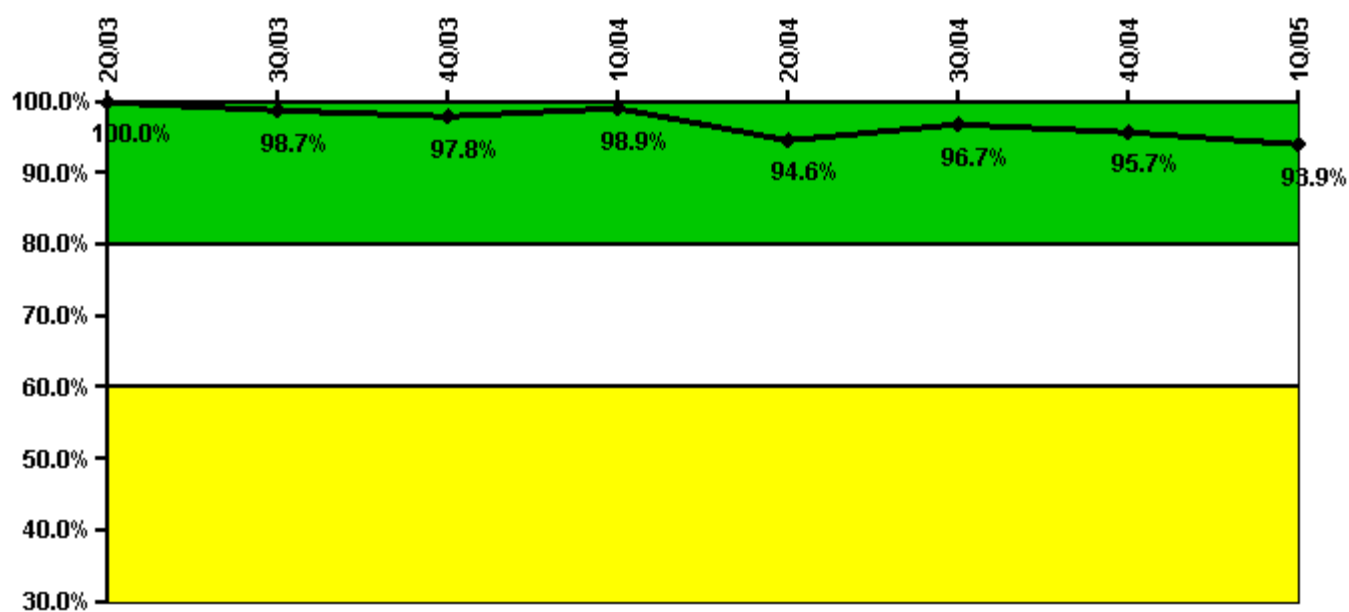
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful opportunities	18.0	41.0	28.0	23.0	27.0	25.0	11.0	85.0
Total opportunities	18.0	48.0	32.0	25.0	28.0	29.0	12.0	91.0
Indicator value	94.1%	92.3%	91.7%	93.0%	92.5%	91.4%	91.3%	91.2%

Licensee Comments: none

ERO Drill Participation



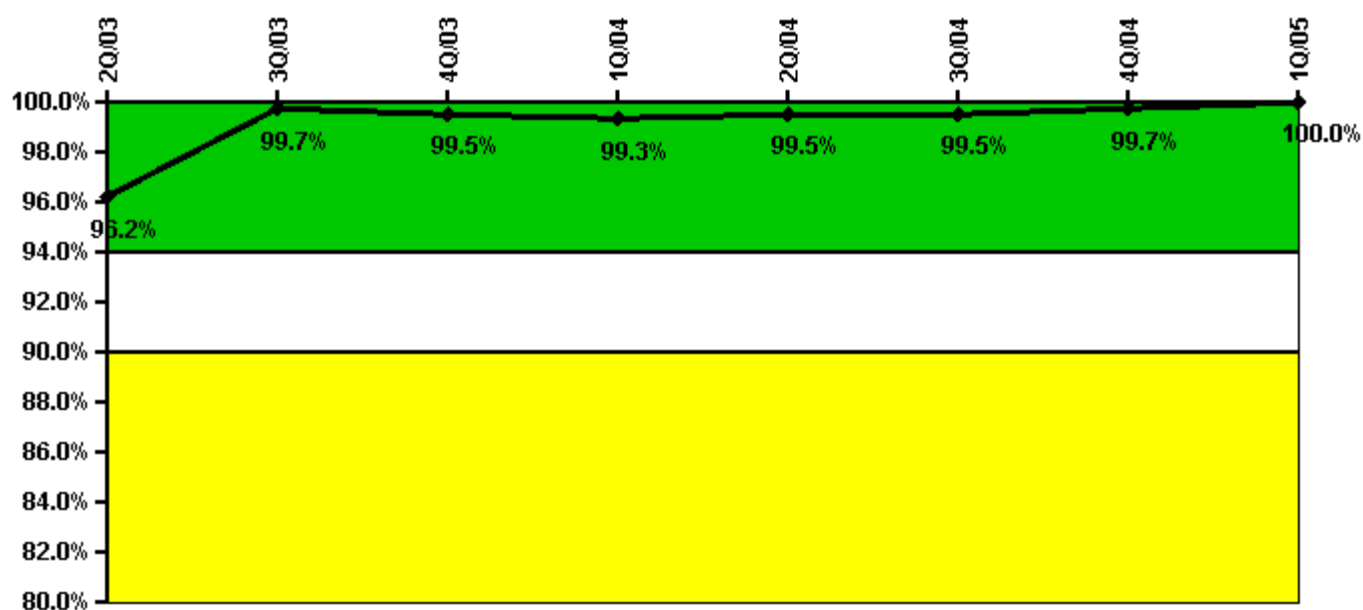
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Participating Key personnel	72.0	74.0	90.0	86.0	87.0	89.0	88.0	92.0
Total Key personnel	72.0	75.0	92.0	87.0	92.0	92.0	92.0	98.0
Indicator value	100.0%	98.7%	97.8%	98.9%	94.6%	96.7%	95.7%	93.9%

Licensee Comments: none

Alert & Notification System



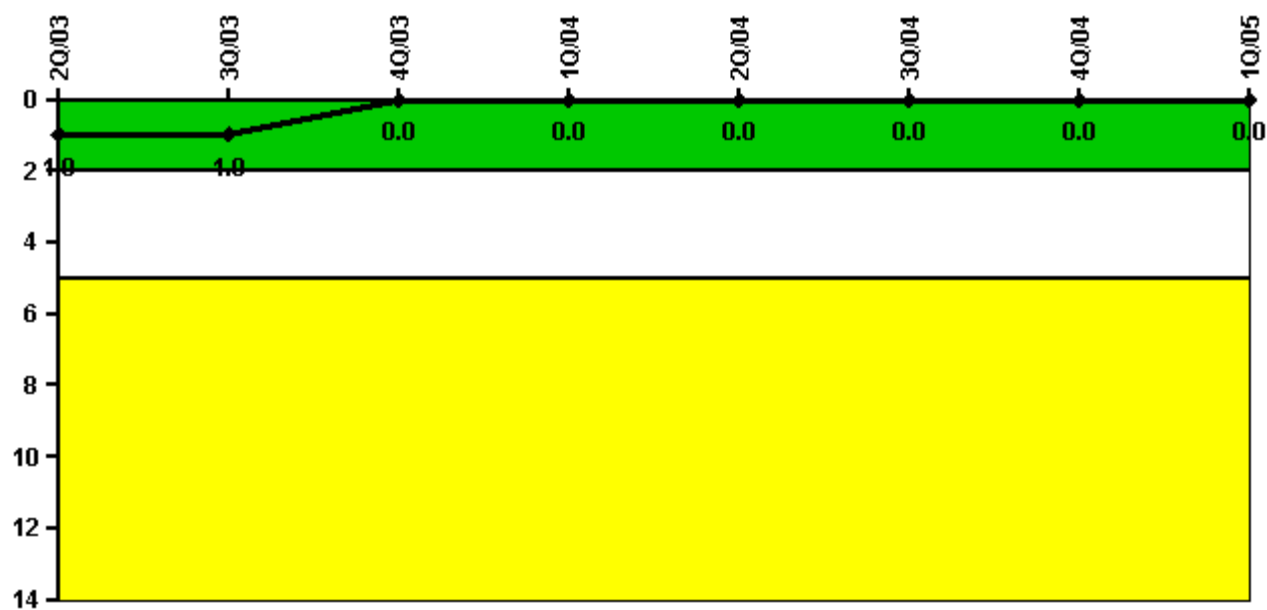
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful siren-tests	182	183	181	181	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	96.2%	99.7%	99.5%	99.3%	99.5%	99.5%	99.7%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness

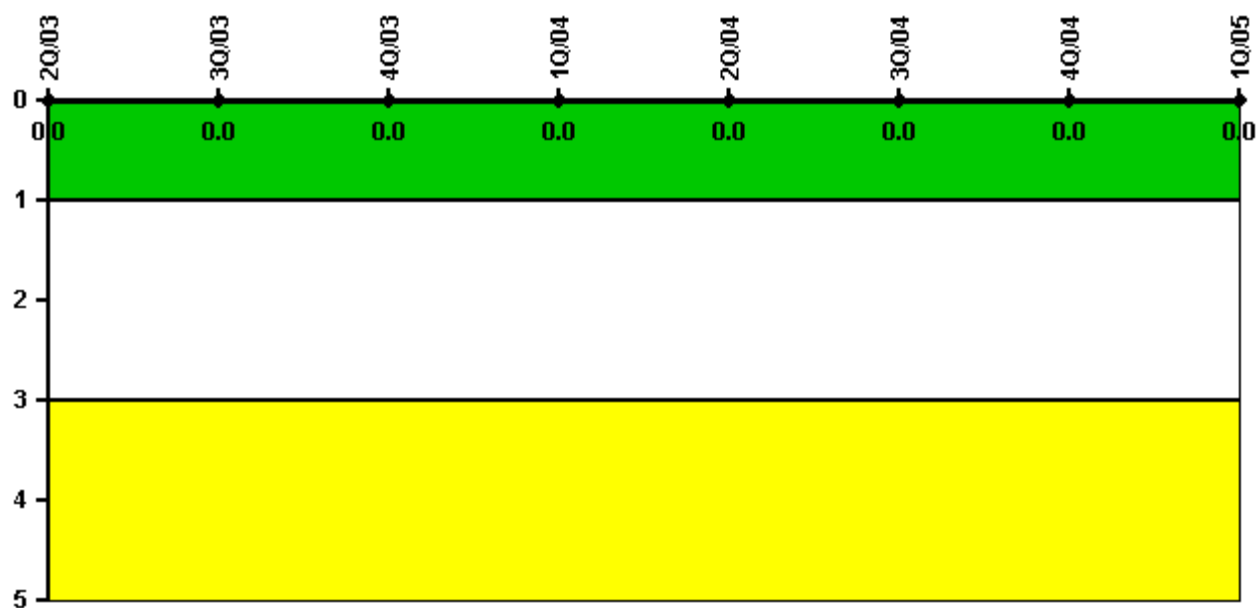


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

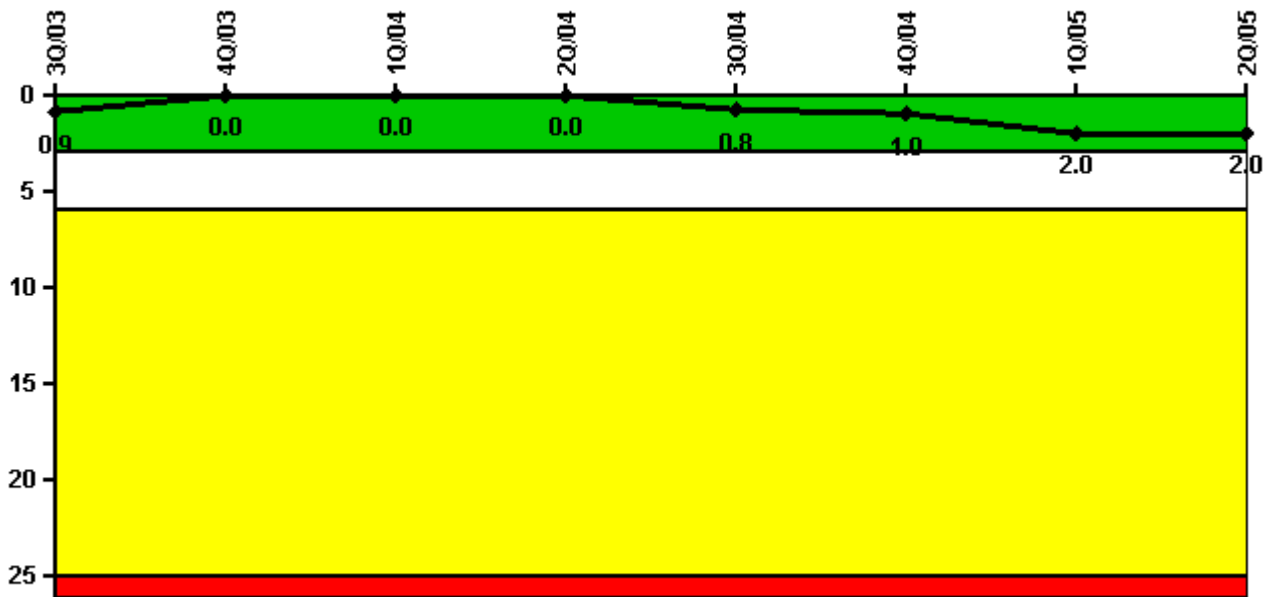
Last Modified: June 17, 2005

Palisades

2Q/2005 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



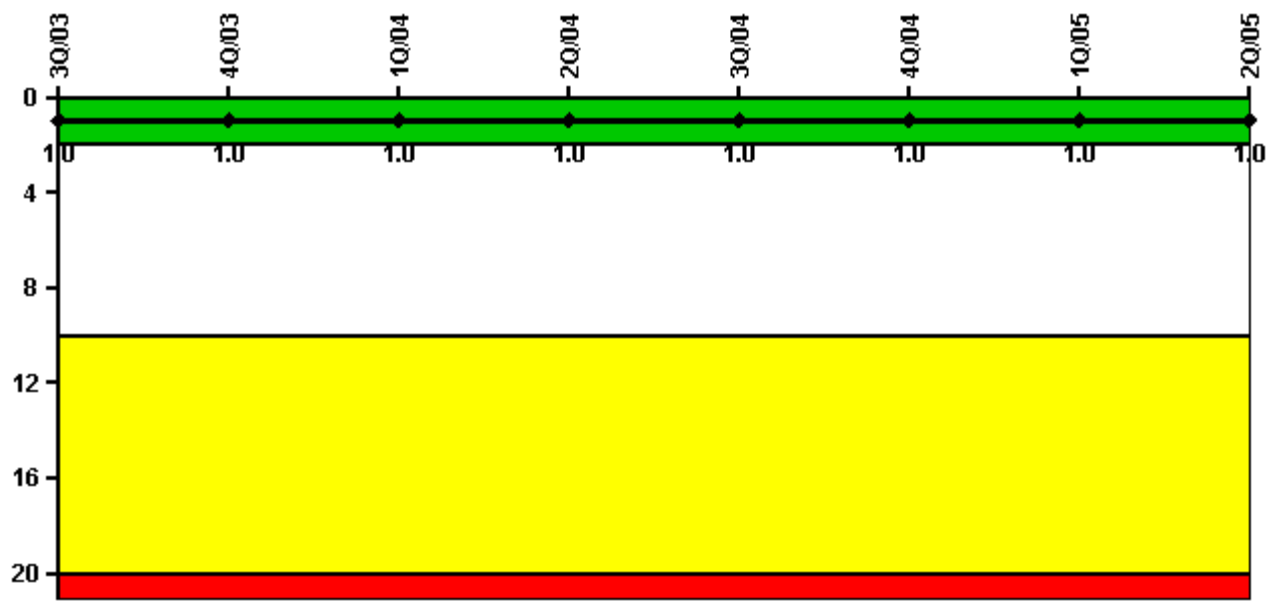
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned scrams	0	0	0	0	1.0	0	1.0	0
Critical hours	2208.0	2209.0	2184.0	2183.0	1756.4	1104.6	2039.5	2183.0
Indicator value	0.9	0	0	0	0.8	1.0	2.0	2.0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



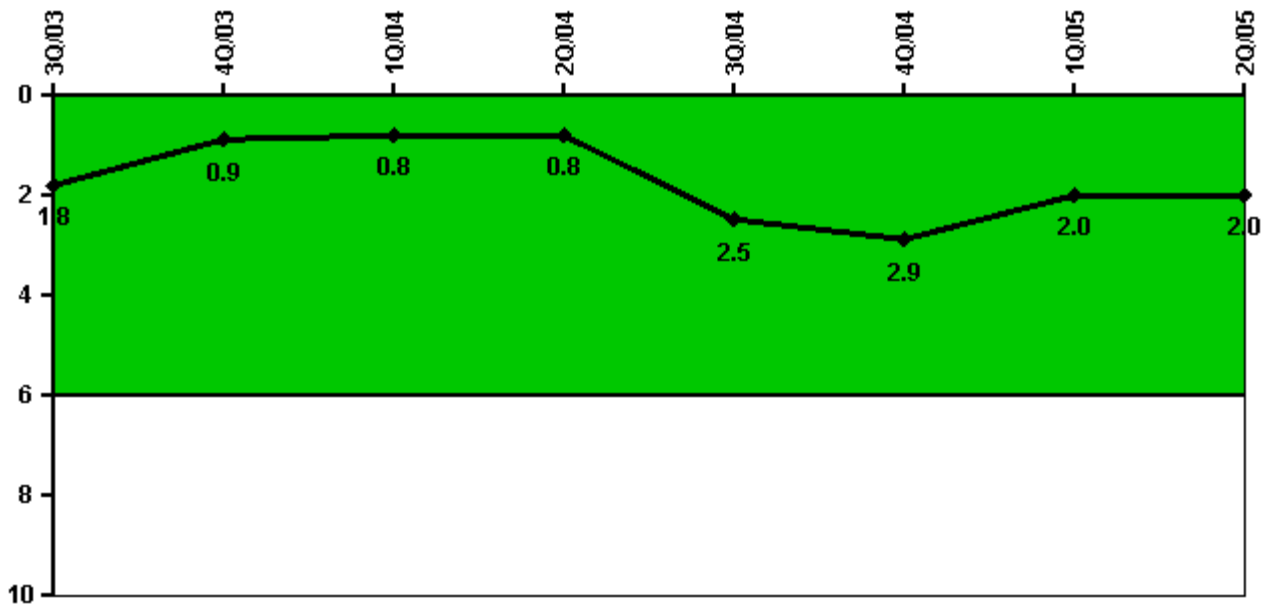
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



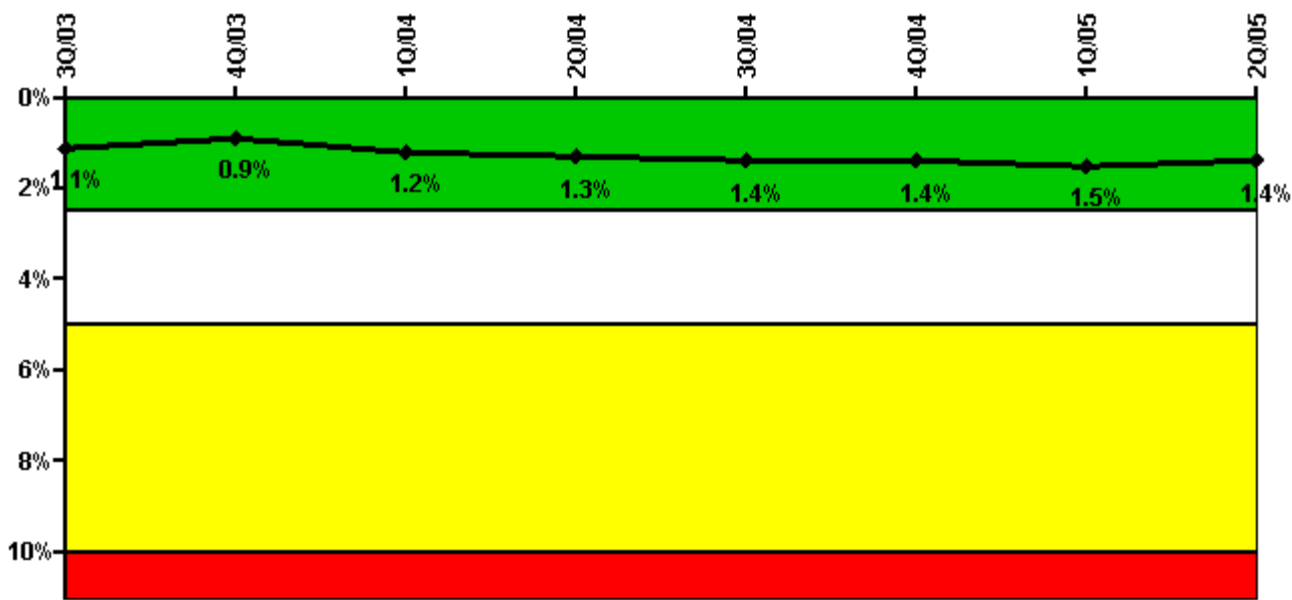
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned power changes	0	0	1.0	0	2.0	0	0	0
Critical hours	2208.0	2209.0	2184.0	2183.0	1756.4	1104.6	2039.5	2183.0
Indicator value	1.8	0.9	0.8	0.8	2.5	2.9	2.0	2.0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



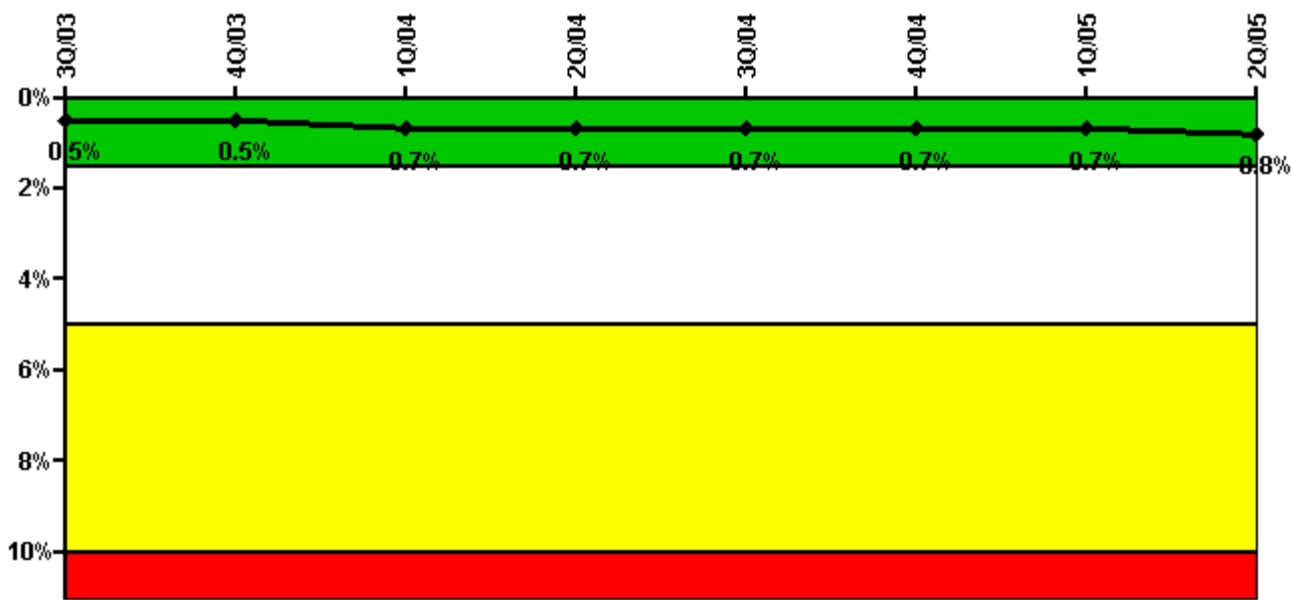
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	33.60	0.64	104.05	5.11	6.53	1.50	11.95	14.87
Unplanned unavailable hours	11.20	46.35	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	42.75	0.47	0.96	86.40	6.33	0.20	10.67	1.80
Unplanned unavailable hours	0	0	48.40	0	1.43	0	46.13	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	1.1%	0.9%	1.2%	1.3%	1.4%	1.4%	1.5%	1.4%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



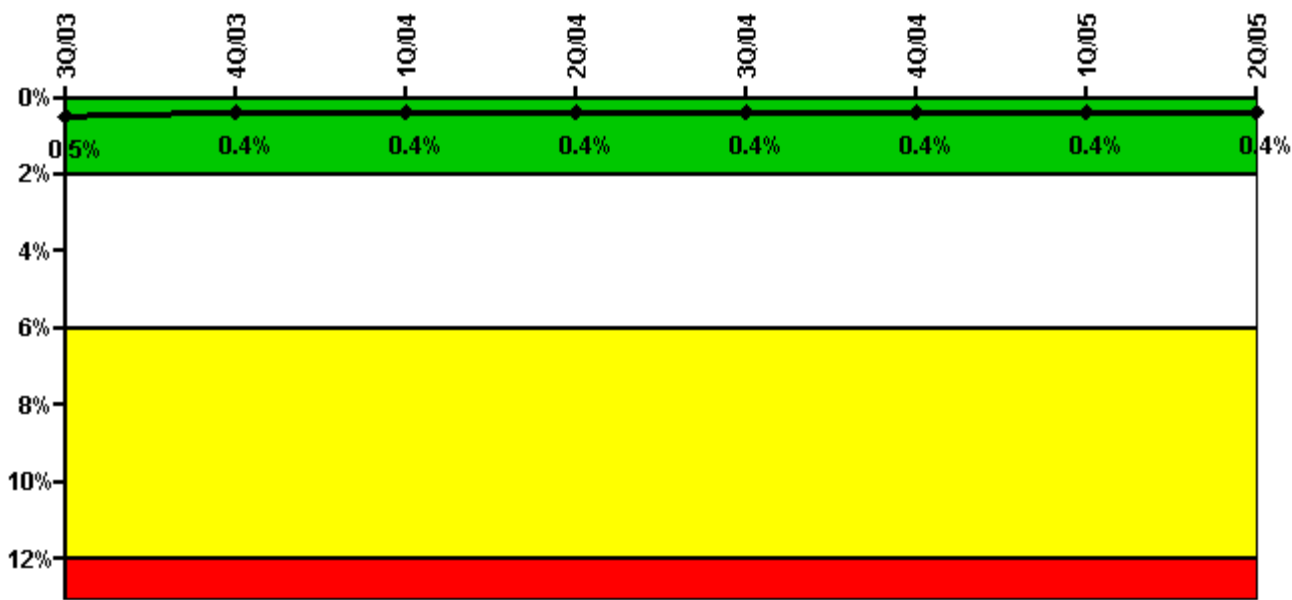
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	0	8.08	46.50	3.86	33.19	0.75	3.78	26.67
Unplanned unavailable hours	0	4.25	0	0	0	0	0	29.95
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47	2160.00	2183.00
Train 2								
Planned unavailable hours	2.40	0.47	30.65	7.15	18.44	0.97	9.60	14.53
Unplanned unavailable hours	43.57	0	0	8.60	0	0	0	0
Fault exposure hours	0	3.95	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47	2160.00	2183.00
Indicator value	0.5%	0.5%	0.7%	0.7%	0.7%	0.7%	0.7%	0.8%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



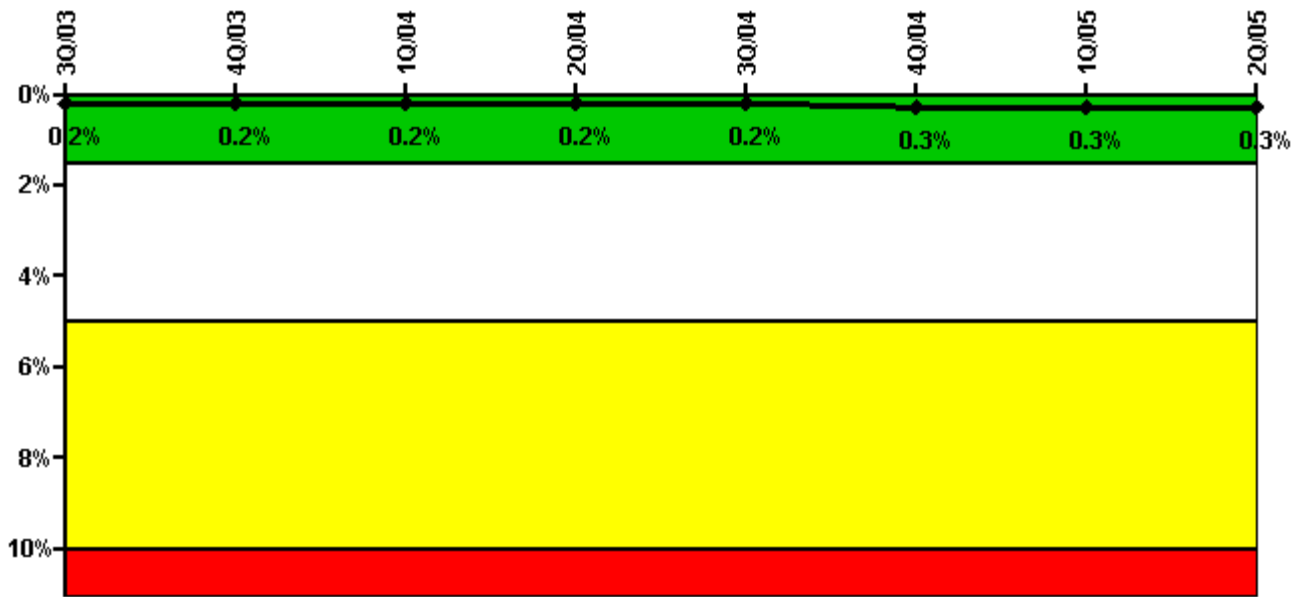
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	25.78	2.01	1.64	4.68	1.45	2.25	3.08	5.56
Unplanned unavailable hours	25.37	0	0	0	0	0	0	4.30
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47	2160.00	2183.00
Train 2								
Planned unavailable hours	18.57	2.05	6.97	5.13	1.33	2.32	15.12	8.25
Unplanned unavailable hours	0	0	0	0	0	0	0	0.68
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	1776.03	1104.63	2160.00	2183.00
Train 3								
Planned unavailable hours	1.82	15.91	22.02	3.73	0.65	0	14.02	1.73
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	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47	2160.00	2183.00
Indicator value	0.5%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



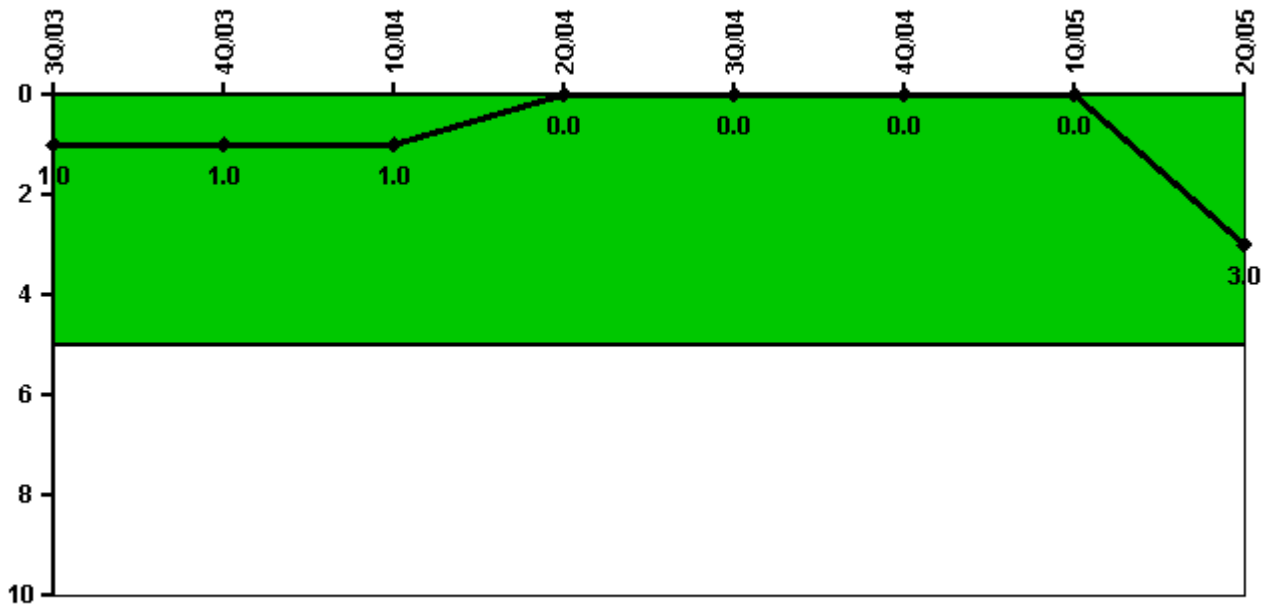
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	62.65	3.65	1.12	4.36	21.22	0.60	19.37	13.68
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	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47	2160.00	2183.00
Train 2								
Planned unavailable hours	0.05	0.47	0	1.30	9.88	0	3.02	0.62
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	1842.31	1152.47	2160.00	2183.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	365.69	845.47	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	291.20	1021.90	0	0
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

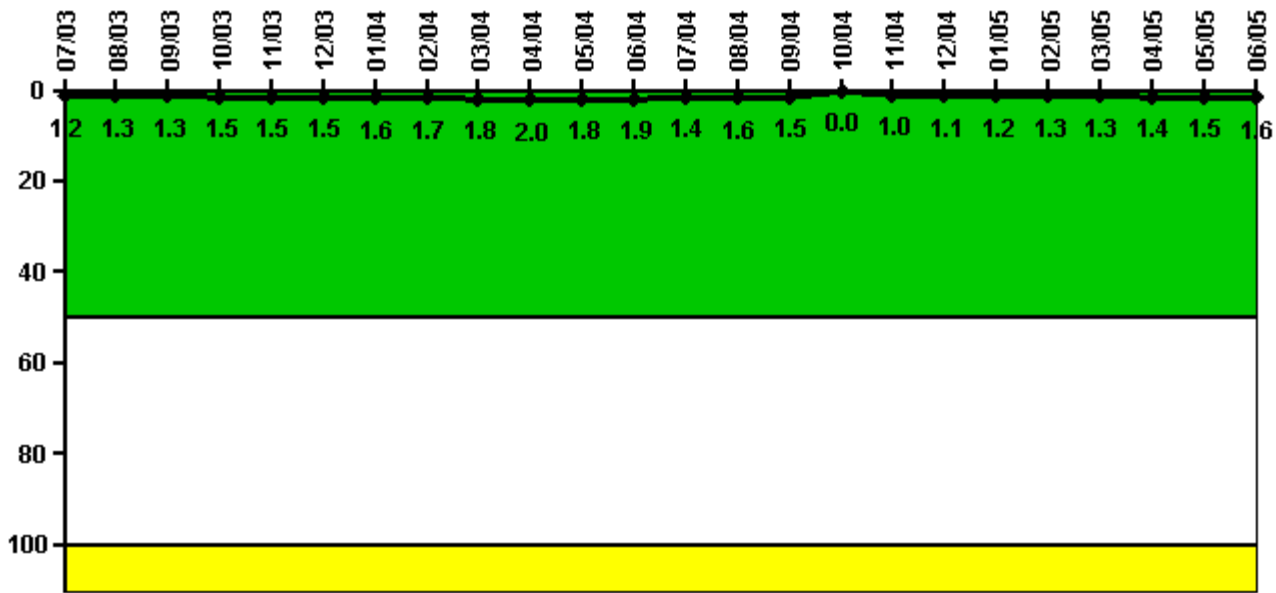
Notes

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

Licensee Comments:

2Q/05: 2005-04, LER 2005-002-00, Emergency Diesel Generator 1-2 Excessively Loaded in Certain Postulated Post Accident Scenarios. 2005-05, LER 2005-003-00, Positive Differential Pressure Not Maintained Between Control Room Envelope and Adjacent Room. 2005-06, LER 2005-04-00, Fuel Handling Area Ventilation System Not Properly Aligned During Movement of Irradiated Fuel Assemblies.

Reactor Coolant System Activity



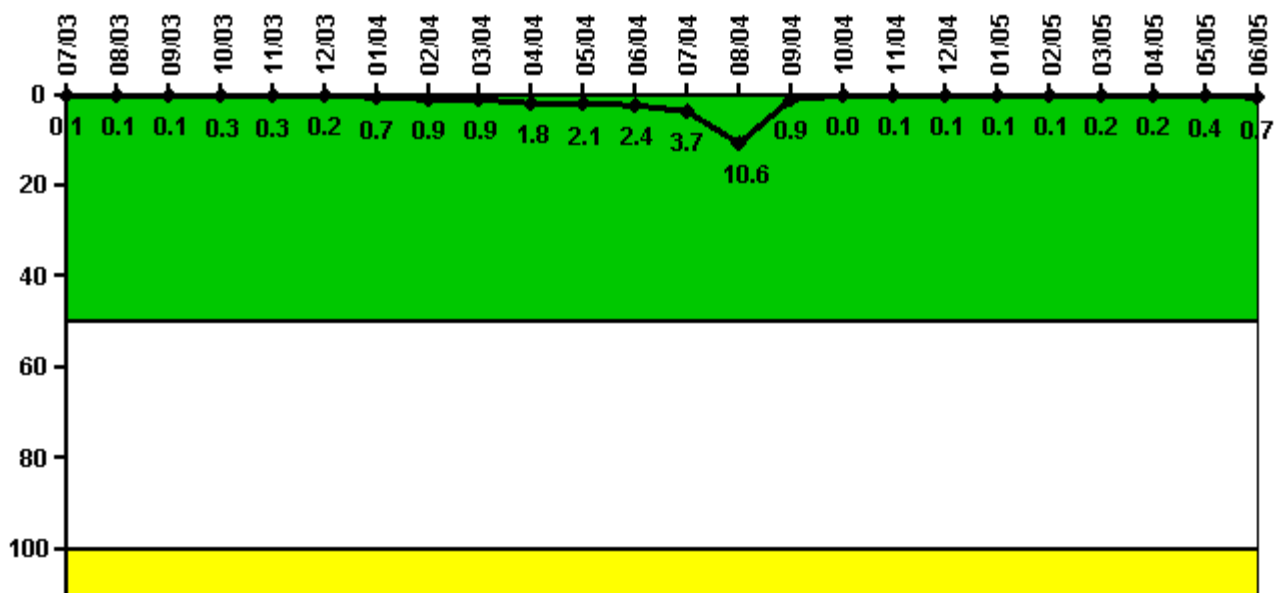
Thresholds: White > 50.0 Yellow > 100.0

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	0.012200	0.012800	0.013300	0.014600	0.014900	0.015400	0.016100	0.016600	0.018400	0.019700	0.018400	0.018800
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.2	1.3	1.3	1.5	1.5	1.5	1.6	1.7	1.8	2.0	1.8	1.9
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	0.014000	0.016000	0.015000	0.000003	0.010100	0.011100	0.012300	0.012600	0.013100	0.014300	0.015200	0.015900
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.4	1.6	1.5	0	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6

Licensee Comments: none

Reactor Coolant System Leakage



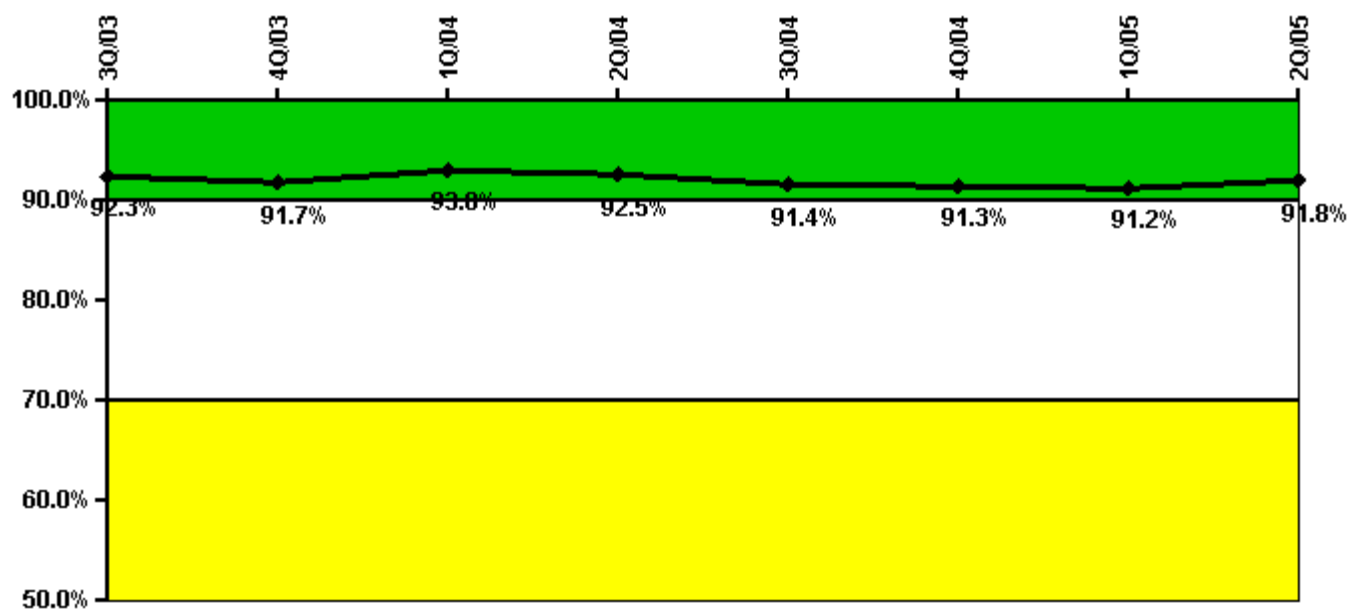
Thresholds: White > 50.0 Yellow > 100.0

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	0.013	0.013	0.011	0.029	0.026	0.018	0.073	0.085	0.094	0.180	0.209	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	0.1	0.1	0.1	0.3	0.3	0.2	0.7	0.9	0.9	1.8	2.1	2.4
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	0.370	1.057	0.085	0	0.005	0.011	0.011	0.008	0.020	0.016	0.040	0.066
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.7	10.6	0.9	0	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.7

Licensee Comments: none

Drill/Exercise Performance



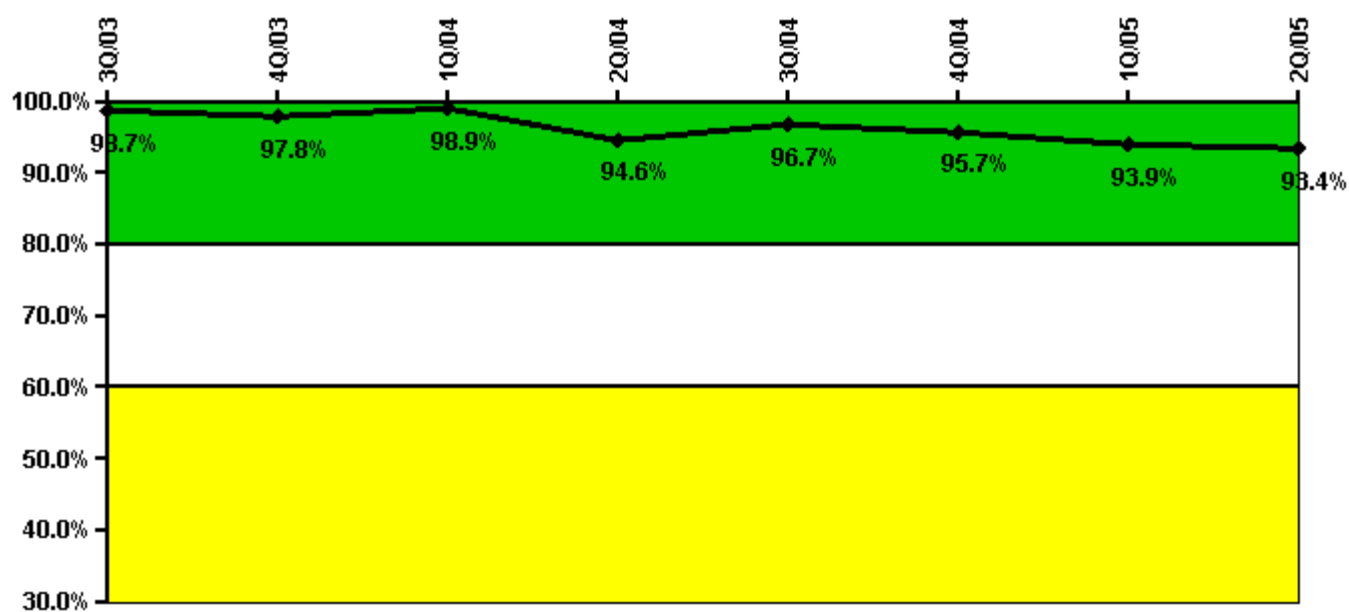
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful opportunities	41.0	28.0	23.0	27.0	25.0	11.0	85.0	75.0
Total opportunities	48.0	32.0	25.0	28.0	29.0	12.0	91.0	78.0
Indicator value	92.3%	91.7%	93.0%	92.5%	91.4%	91.3%	91.2%	91.8%

Licensee Comments: none

ERO Drill Participation



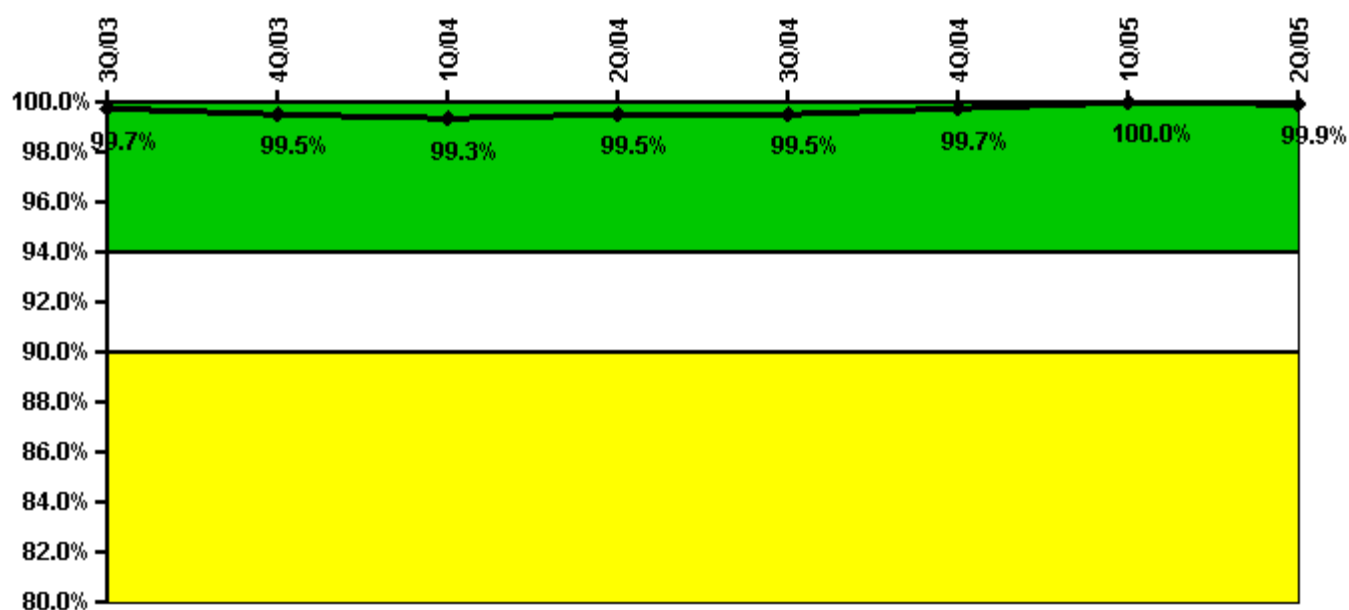
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Participating Key personnel	74.0	90.0	86.0	87.0	89.0	88.0	92.0	99.0
Total Key personnel	75.0	92.0	87.0	92.0	92.0	92.0	98.0	106.0
Indicator value	98.7%	97.8%	98.9%	94.6%	96.7%	95.7%	93.9%	93.4%

Licensee Comments: none

Alert & Notification System



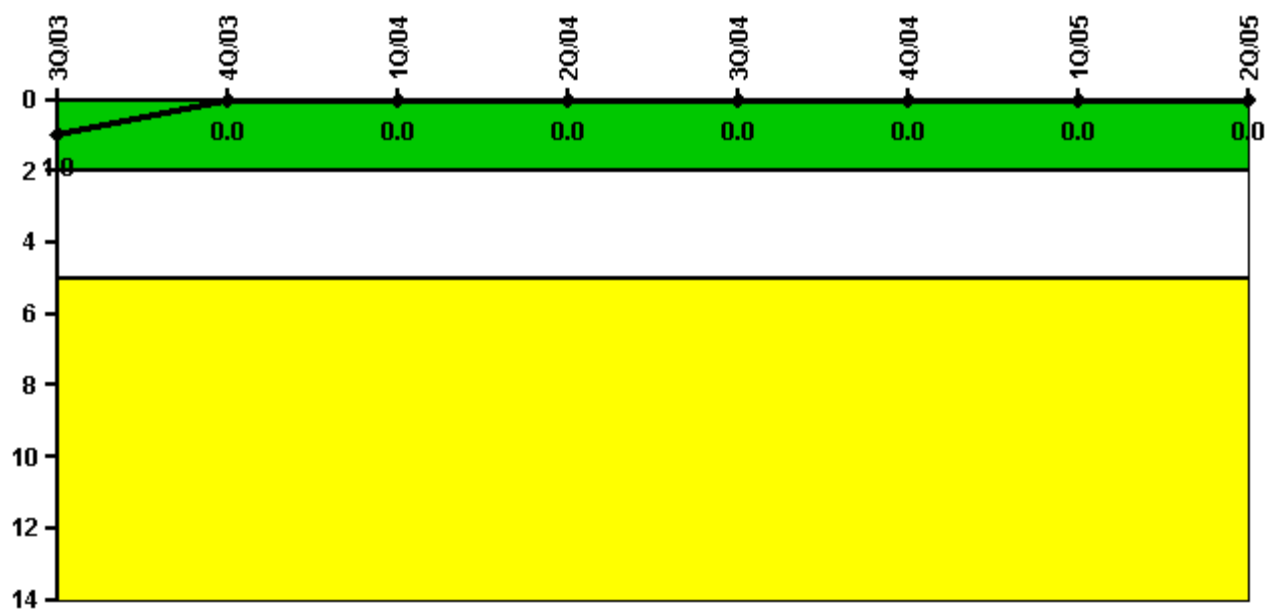
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful siren-tests	183	181	181	183	183	183	183	182
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.7%	99.5%	99.3%	99.5%	99.5%	99.7%	100.0%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



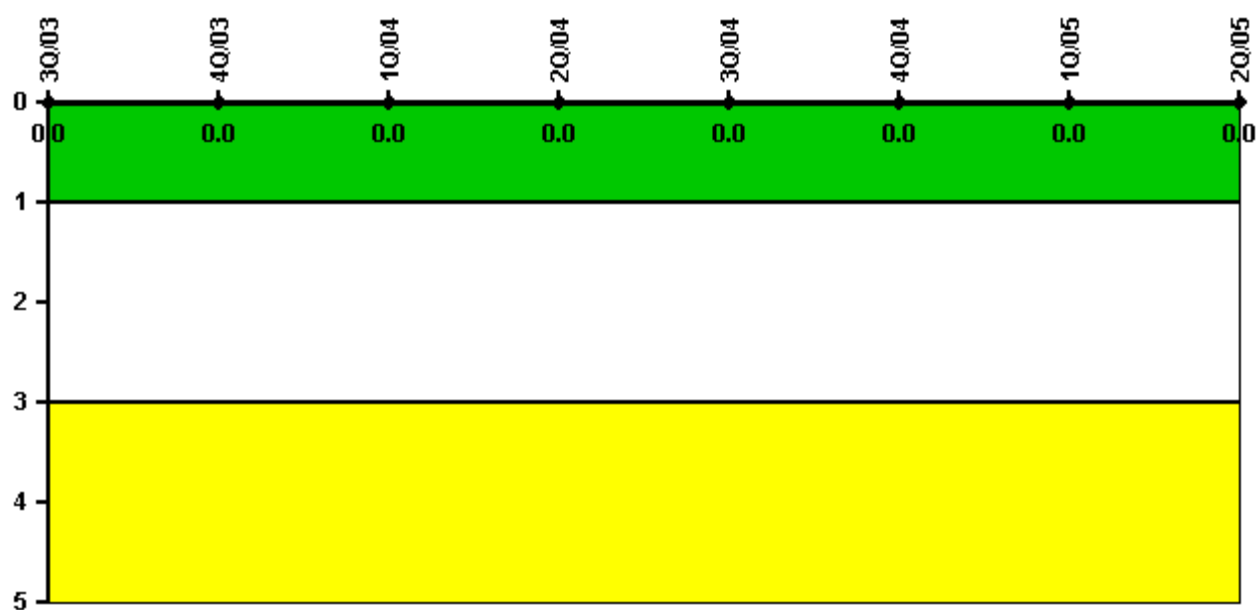
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

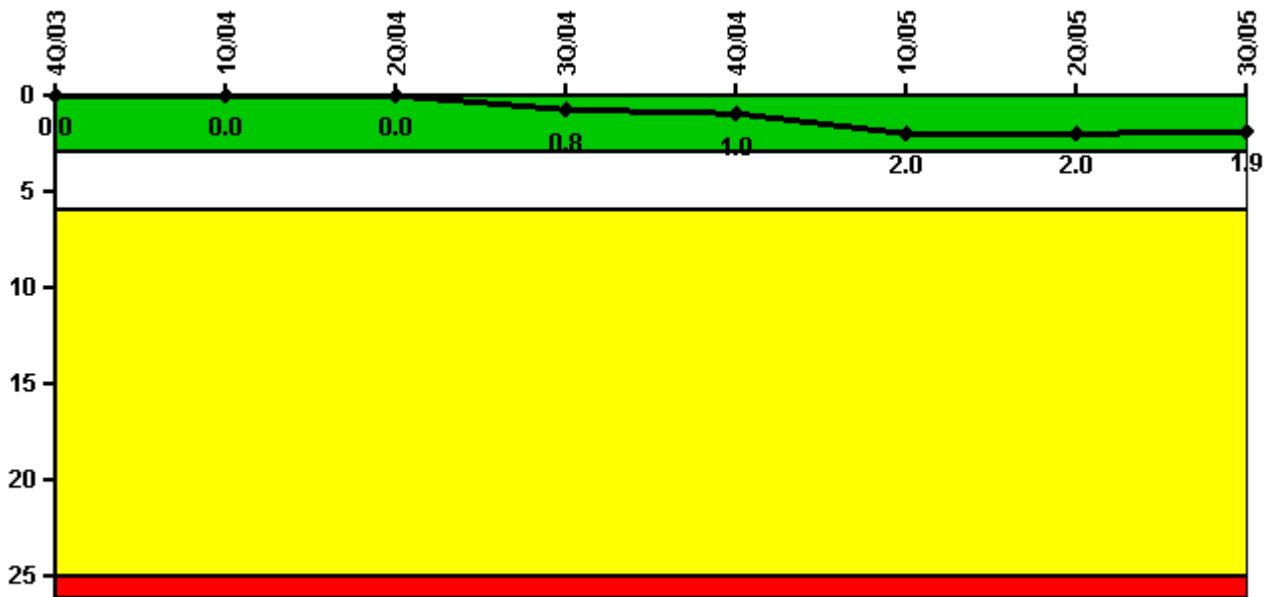
Last Modified: August 3, 2005

Palisades

3Q/2005 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



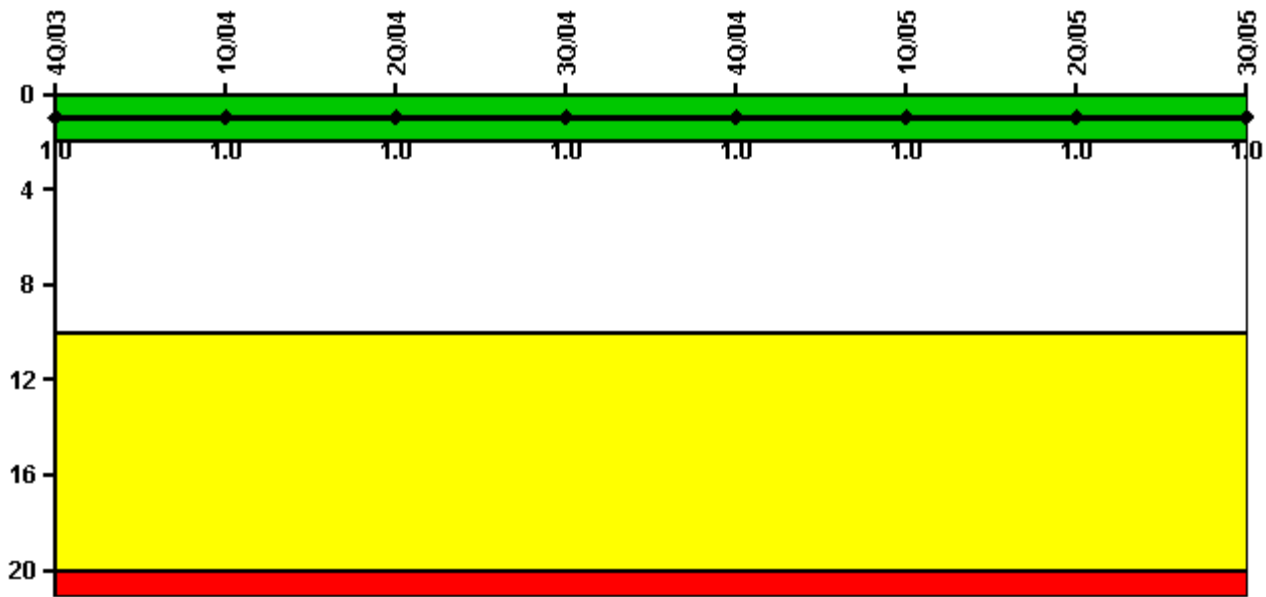
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned scrams	0	0	0	1.0	0	1.0	0	1.0
Critical hours	2209.0	2184.0	2183.0	1756.4	1104.6	2039.5	2183.0	2173.7
Indicator value	0	0	0	0.8	1.0	2.0	2.0	1.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



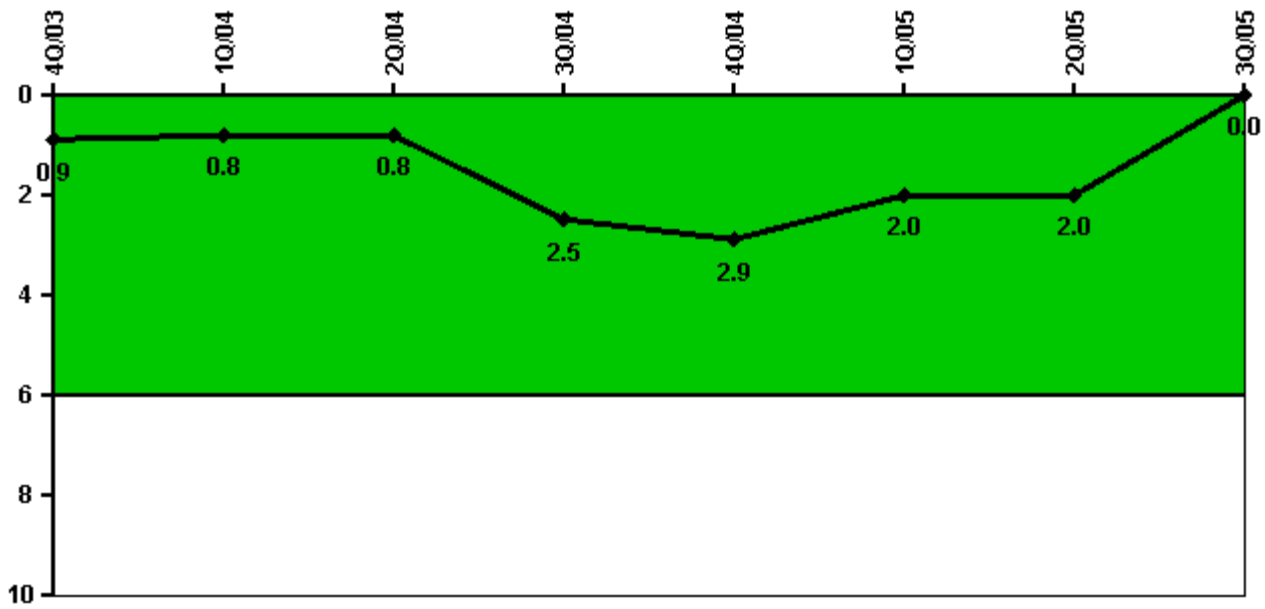
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



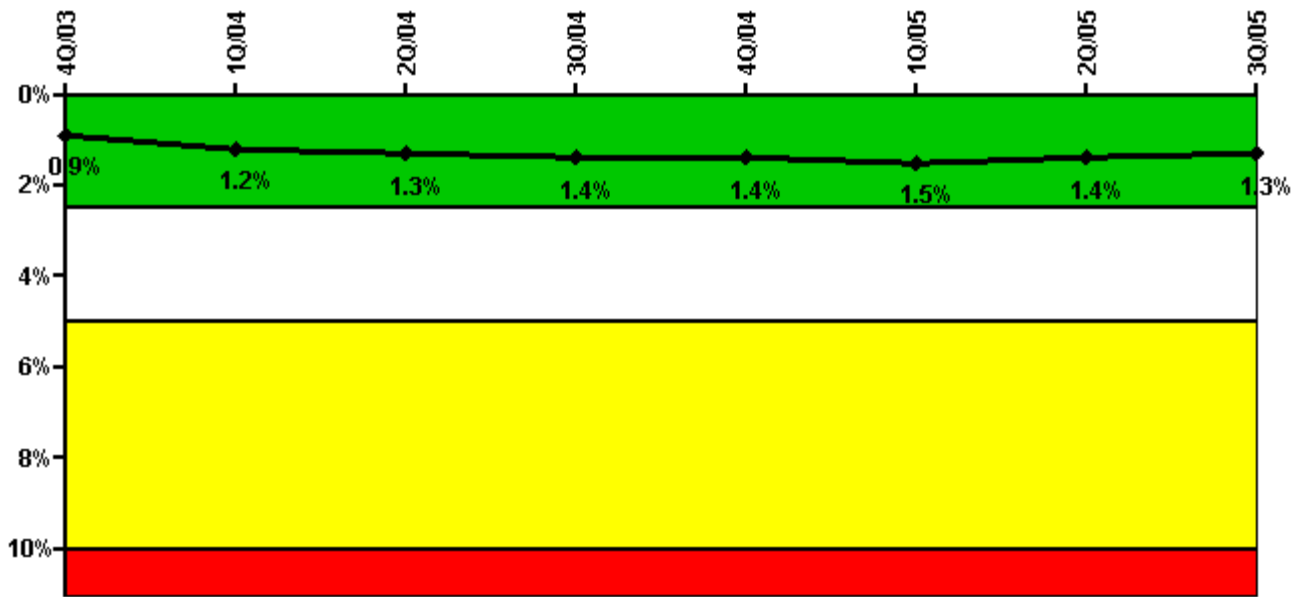
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned power changes	0	1.0	0	2.0	0	0	0	0
Critical hours	2209.0	2184.0	2183.0	1756.4	1104.6	2039.5	2183.0	2173.7
Indicator value	0.9	0.8	0.8	2.5	2.9	2.0	2.0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



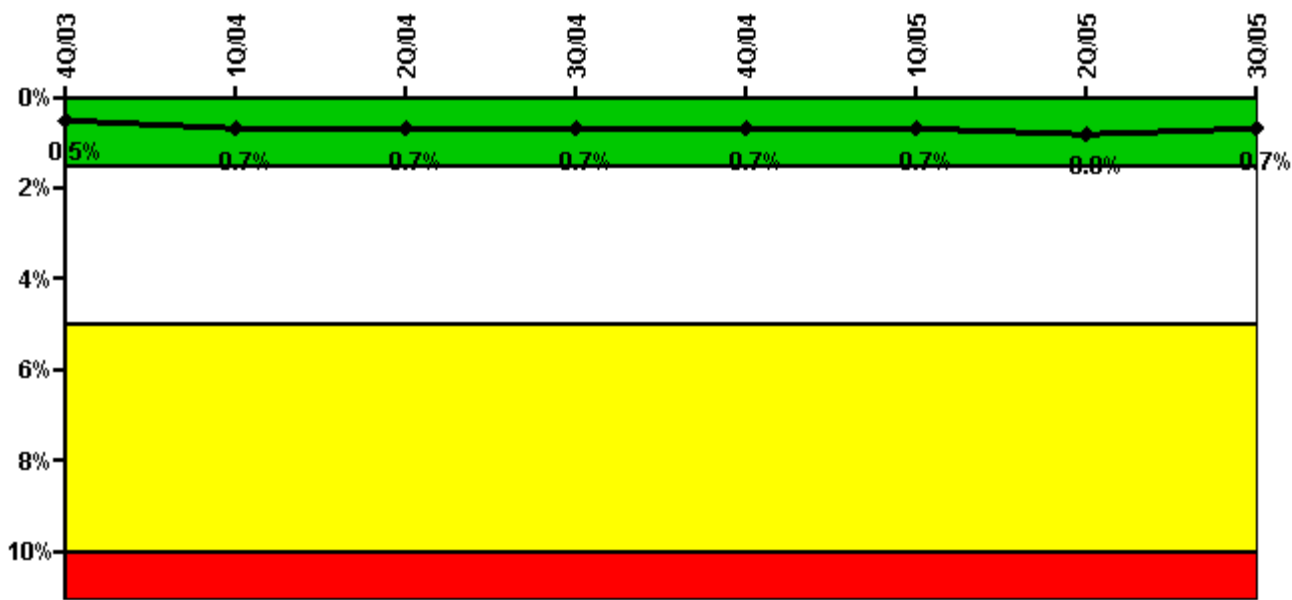
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	0.64	104.05	5.11	6.53	1.50	11.95	14.87	0.48
Unplanned unavailable hours	46.35	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0.47	0.96	86.40	6.33	0.20	10.67	1.80	0.73
Unplanned unavailable hours	0	48.40	0	1.43	0	46.13	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	0.9%	1.2%	1.3%	1.4%	1.4%	1.5%	1.4%	1.3%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



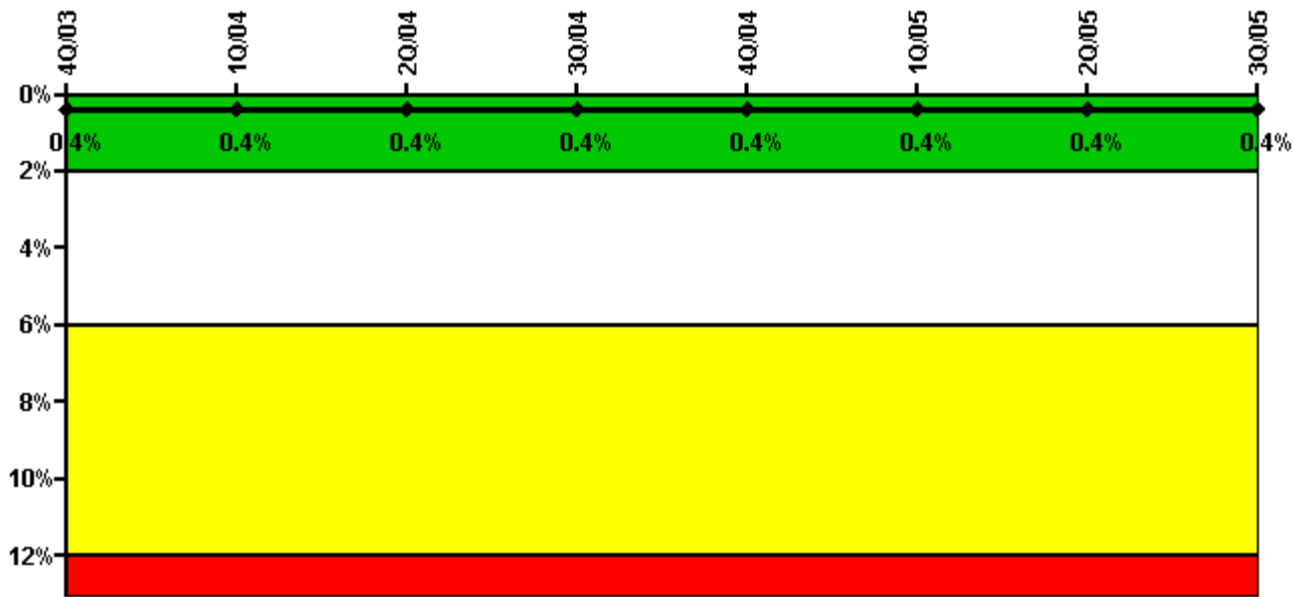
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	8.08	46.50	3.86	33.19	0.75	3.78	26.67	0
Unplanned unavailable hours	4.25	0	0	0	0	0	29.95	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	1842.31	1152.47	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0.47	30.65	7.15	18.44	0.97	9.60	14.53	0
Unplanned unavailable hours	0	0	8.60	0	0	0	0	0
Fault exposure hours	3.95	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	1842.31	1152.47	2160.00	2183.00	2208.00
Indicator value	0.5%	0.7%	0.7%	0.7%	0.7%	0.7%	0.8%	0.7%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



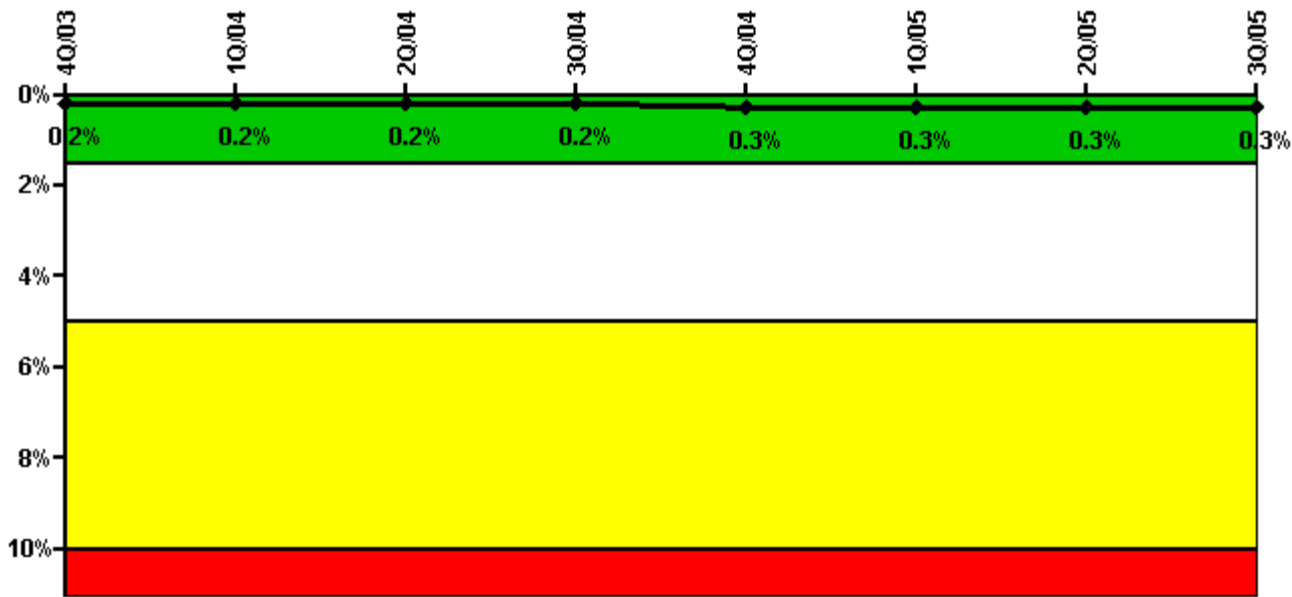
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	2.01	1.64	4.68	1.45	2.25	3.08	5.56	9.81
Unplanned unavailable hours	0	0	0	0	0	0	4.30	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	1842.31	1152.47	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	2.05	6.97	5.13	1.33	2.32	15.12	8.25	1.87
Unplanned unavailable hours	0	0	0	0	0	0	0.68	0
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	1776.03	1104.63	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	15.91	22.02	3.73	0.65	0	14.02	1.73	0.92
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	2209.00	2184.00	2183.00	1842.31	1152.47	2160.00	2183.00	2208.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



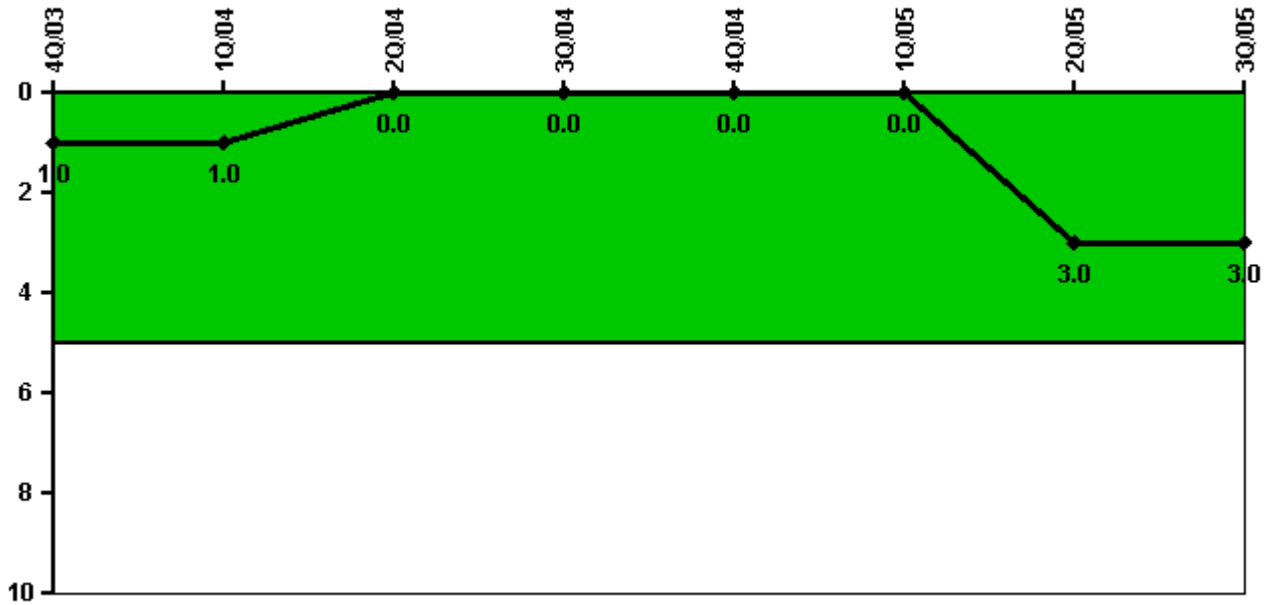
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	3.65	1.12	4.36	21.22	0.60	19.37	13.68	3.26
Unplanned unavailable hours	0	0	0	0	0	0	0	0
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	1842.31	1152.47	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0.47	0	1.30	9.88	0	3.02	0.62	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	1842.31	1152.47	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	365.69	845.47	0	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	291.20	1021.90	0	0	0
Indicator value	0.2%	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Functional Failures (PWR)



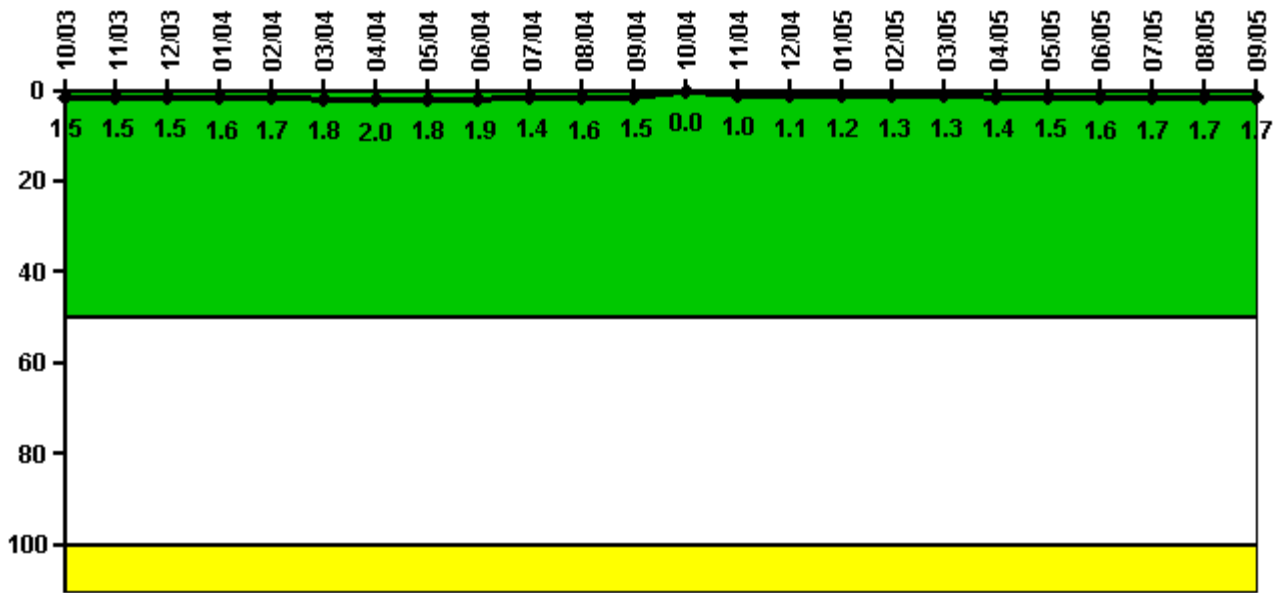
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



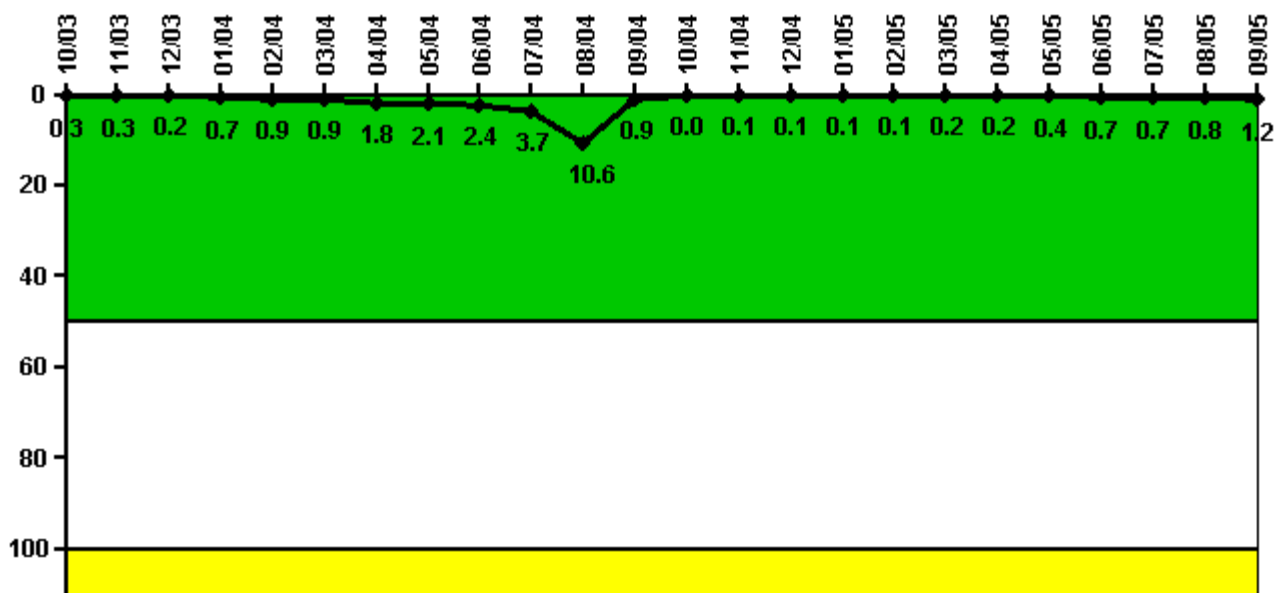
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum activity	0.014600	0.014900	0.015400	0.016100	0.016600	0.018400	0.019700	0.018400	0.018800	0.014000	0.016000	0.015000
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.5	1.5	1.5	1.6	1.7	1.8	2.0	1.8	1.9	1.4	1.6	1.5
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	0.000003	0.010100	0.011100	0.012300	0.012600	0.013100	0.014300	0.015200	0.015900	0.017400	0.017300	0.017100
Technical specification limit	1.0	1.0	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	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.7	1.7	1.7

Licensee Comments: none

Reactor Coolant System Leakage



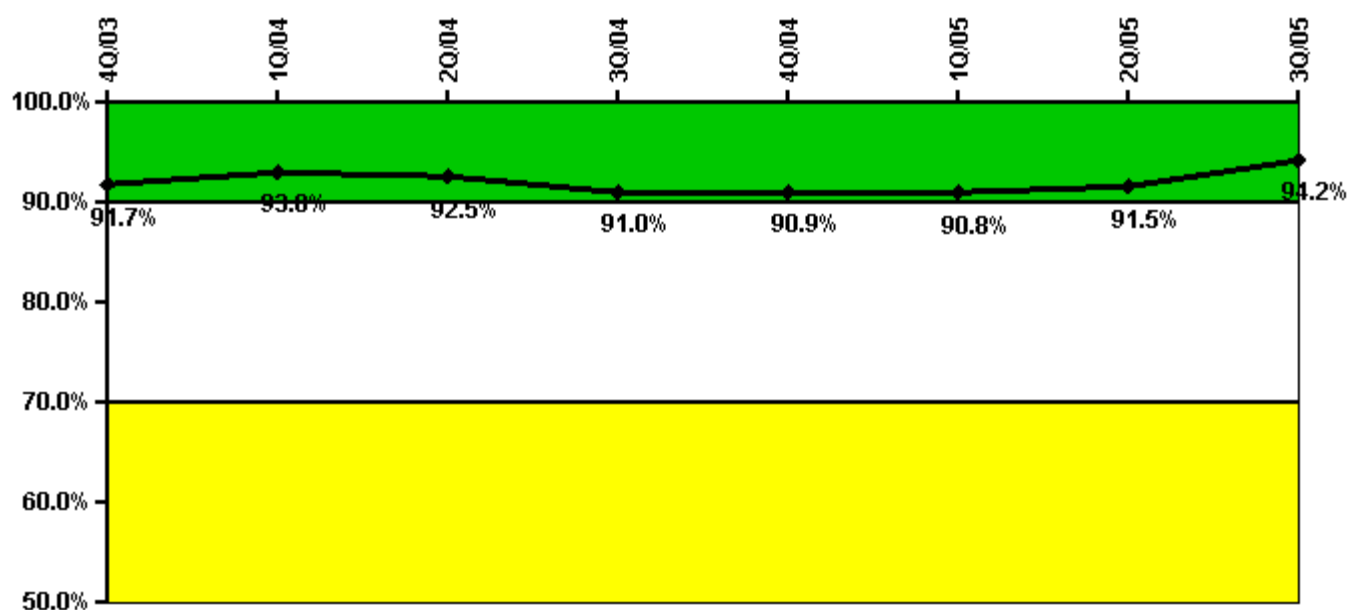
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	0.029	0.026	0.018	0.073	0.085	0.094	0.180	0.209	0.240	0.370	1.057	0.085
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.3	0.3	0.2	0.7	0.9	0.9	1.8	2.1	2.4	3.7	10.6	0.9
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	0.005	0.011	0.011	0.008	0.020	0.016	0.040	0.066	0.066	0.079	0.120
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.7	0.7	0.8	1.2

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

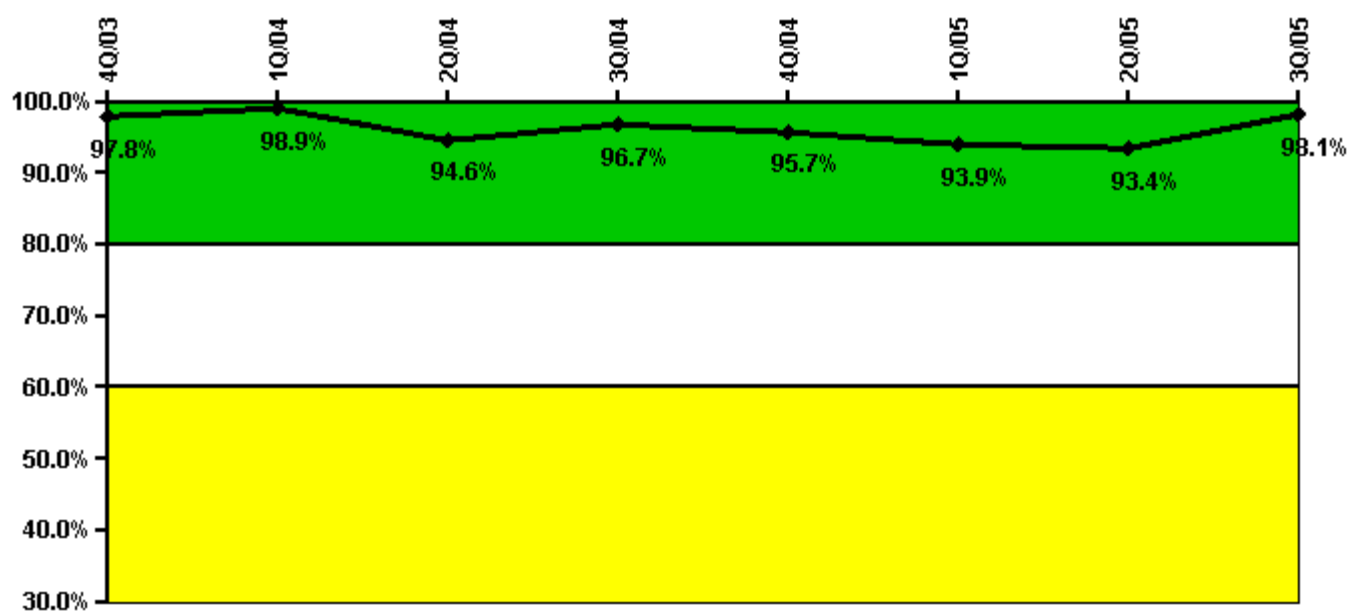
Notes

Drill/Exercise Performance	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Successful opportunities	28.0	23.0	27.0	24.0	11.0	85.0	75.0	82.0
Total opportunities	32.0	25.0	28.0	29.0	12.0	91.0	78.0	82.0
Indicator value	91.7%	93.0%	92.5%	91.0%	90.9%	90.8%	91.5%	94.2%

Licensee Comments:

3Q/04: The purpose of this change is to correct previously submitted data that was inappropriately counted as a successful opportunity in July 2004. The discovery of an untimely notification for a protective action recommendation resulted in reducing the number of successful opportunities from 14 of 17 to 13 of 17 for the month of July 2004. The change in July data resulted in changing the 3rd quarter 2004 data from 25 of 29 to 24 of 29 successful opportunities. The identified change did not result in the EP-1, Drill/Exercise Performance indicator value falling outside of the green performance indicator band from the time of the change to present.

ERO Drill Participation



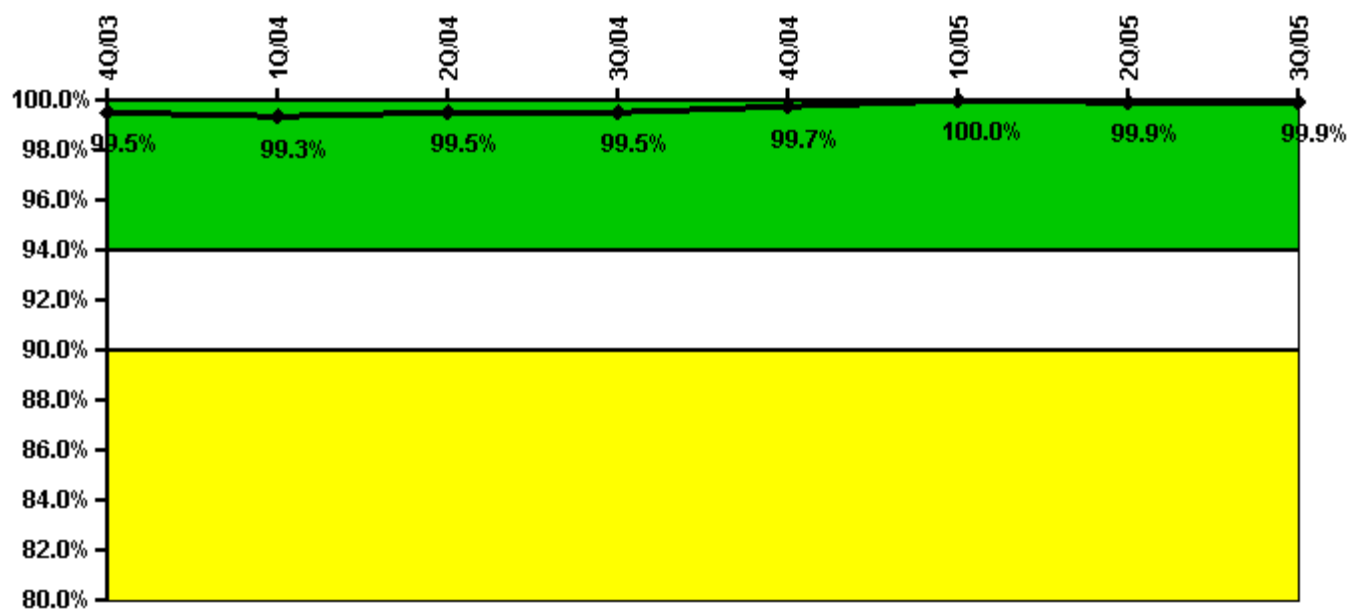
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Participating Key personnel	90.0	86.0	87.0	89.0	88.0	92.0	99.0	106.0
Total Key personnel	92.0	87.0	92.0	92.0	92.0	98.0	106.0	108.0
Indicator value	97.8%	98.9%	94.6%	96.7%	95.7%	93.9%	93.4%	98.1%

Licensee Comments: none

Alert & Notification System



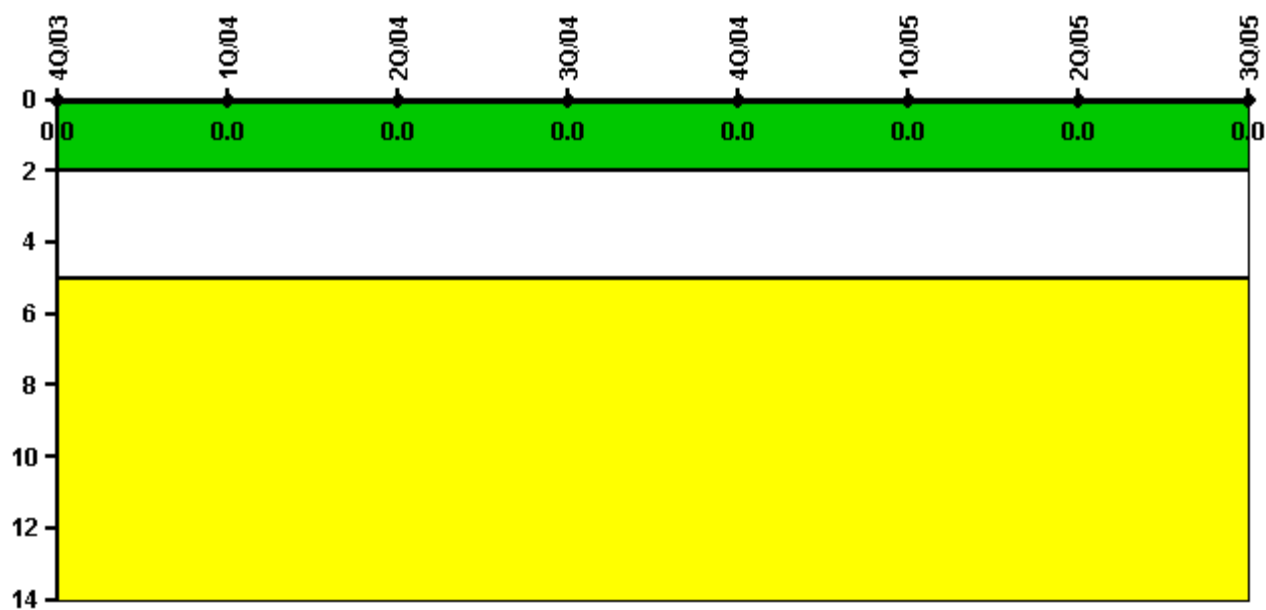
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Successful siren-tests	181	181	183	183	183	183	182	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.5%	99.3%	99.5%	99.5%	99.7%	100.0%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



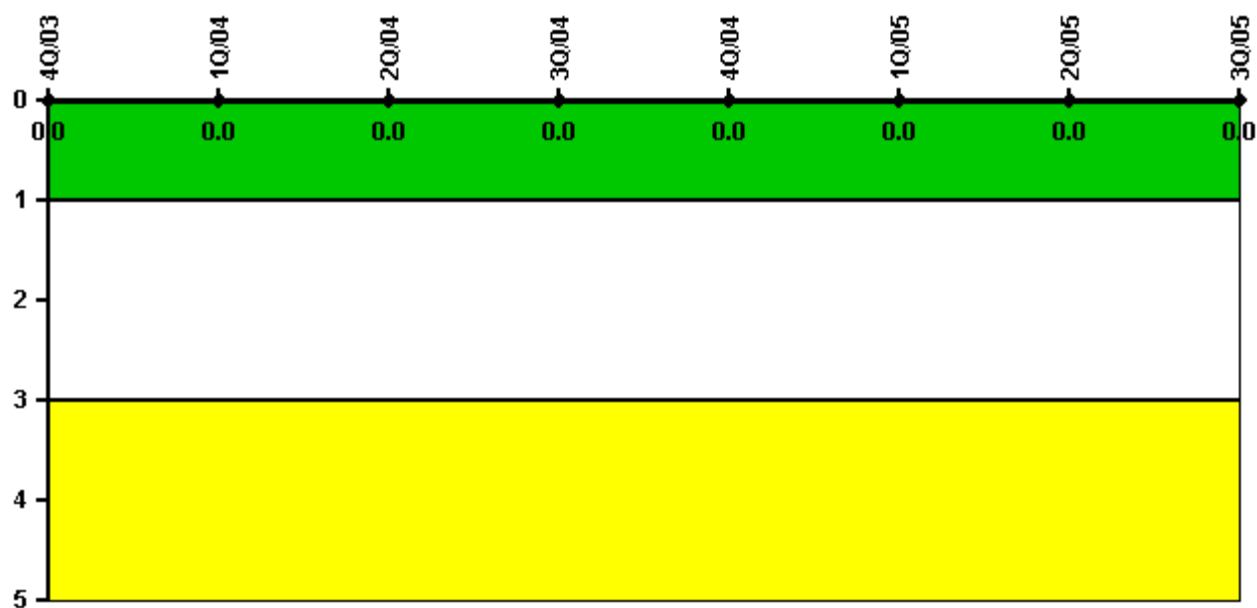
Thresholds: White > 2.0 Yellow > 5.0

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

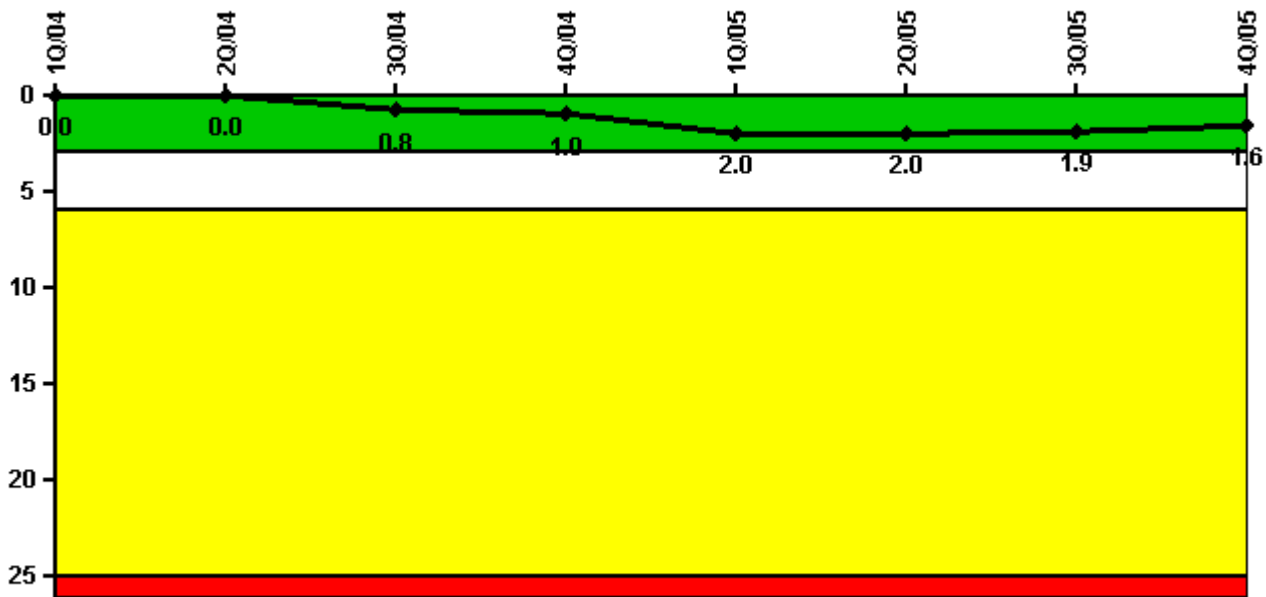
[Physical Protection](#) information not publicly available.

Palisades

4Q/2005 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



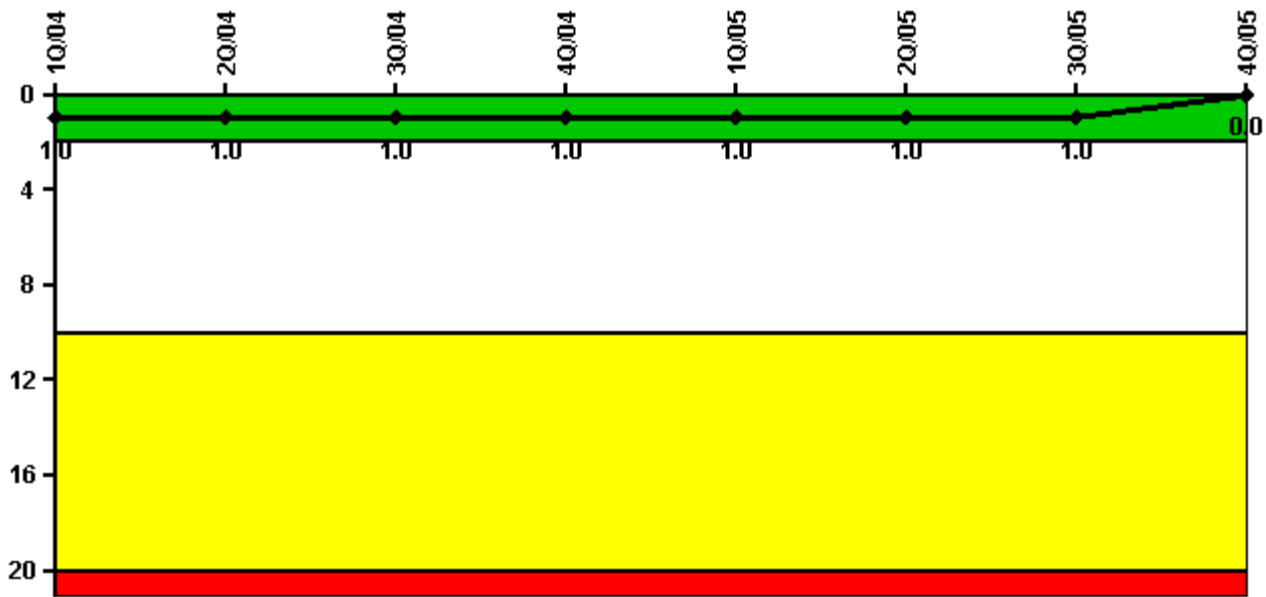
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned scrams	0	0	1.0	0	1.0	0	1.0	0
Critical hours	2184.0	2183.0	1756.4	1104.6	2039.5	2183.0	2173.7	2185.2
Indicator value	0	0	0.8	1.0	2.0	2.0	1.9	1.6

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



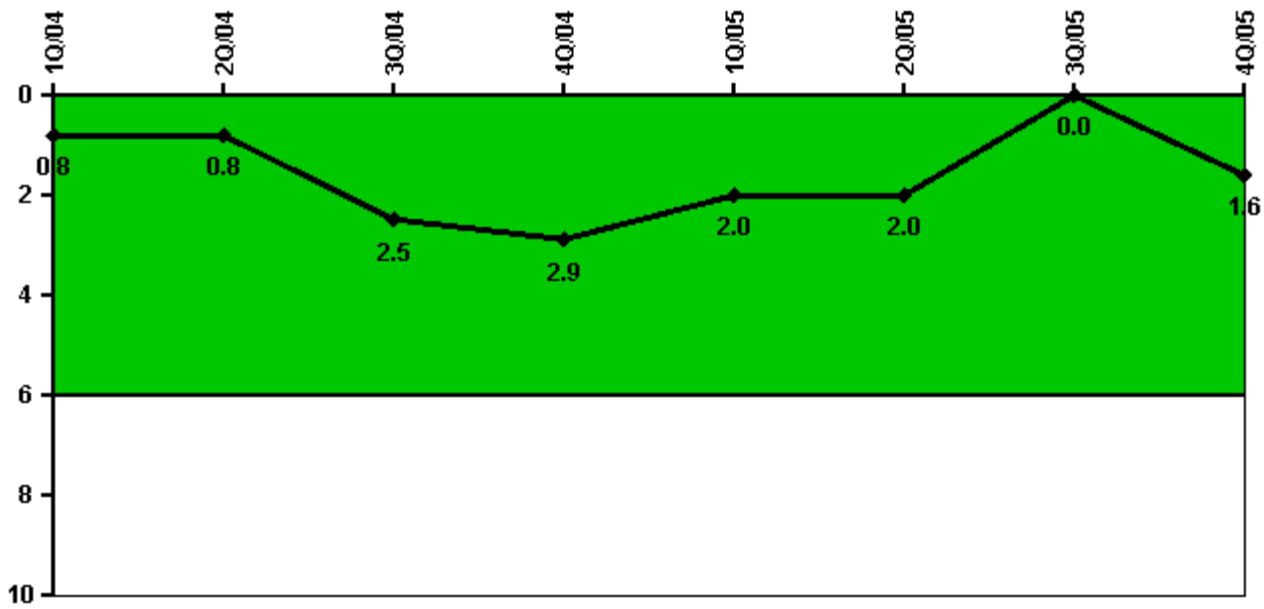
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



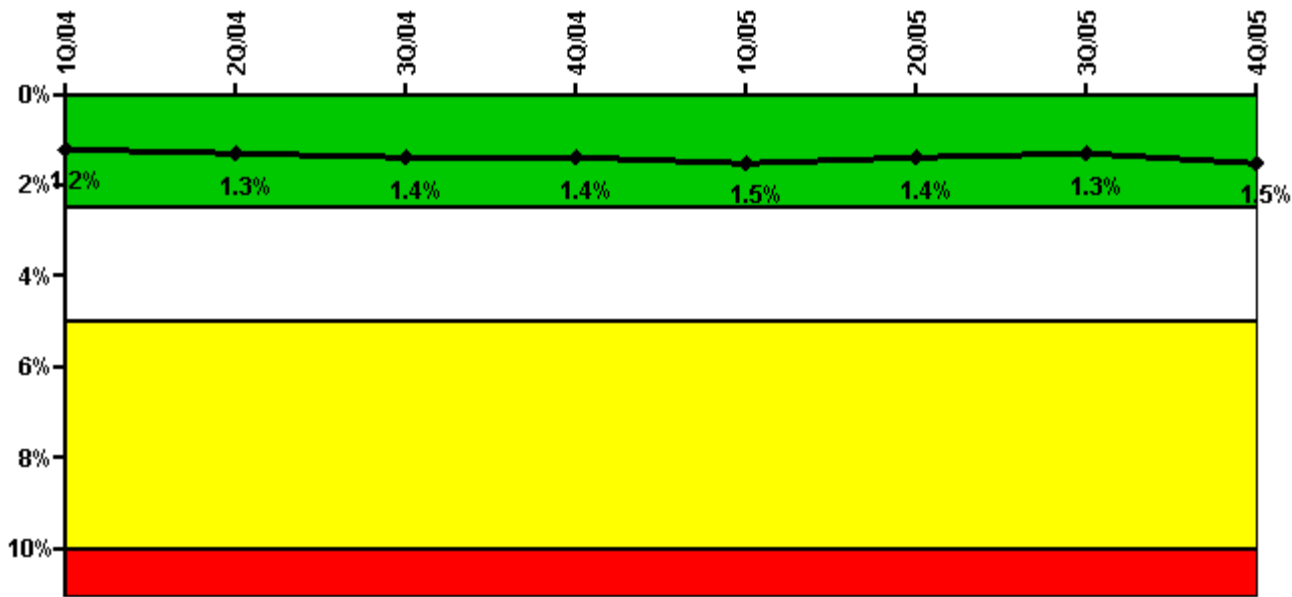
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned power changes	1.0	0	2.0	0	0	0	0	2.0
Critical hours	2184.0	2183.0	1756.4	1104.6	2039.5	2183.0	2173.7	2185.2
Indicator value	0.8	0.8	2.5	2.9	2.0	2.0	0	1.6

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

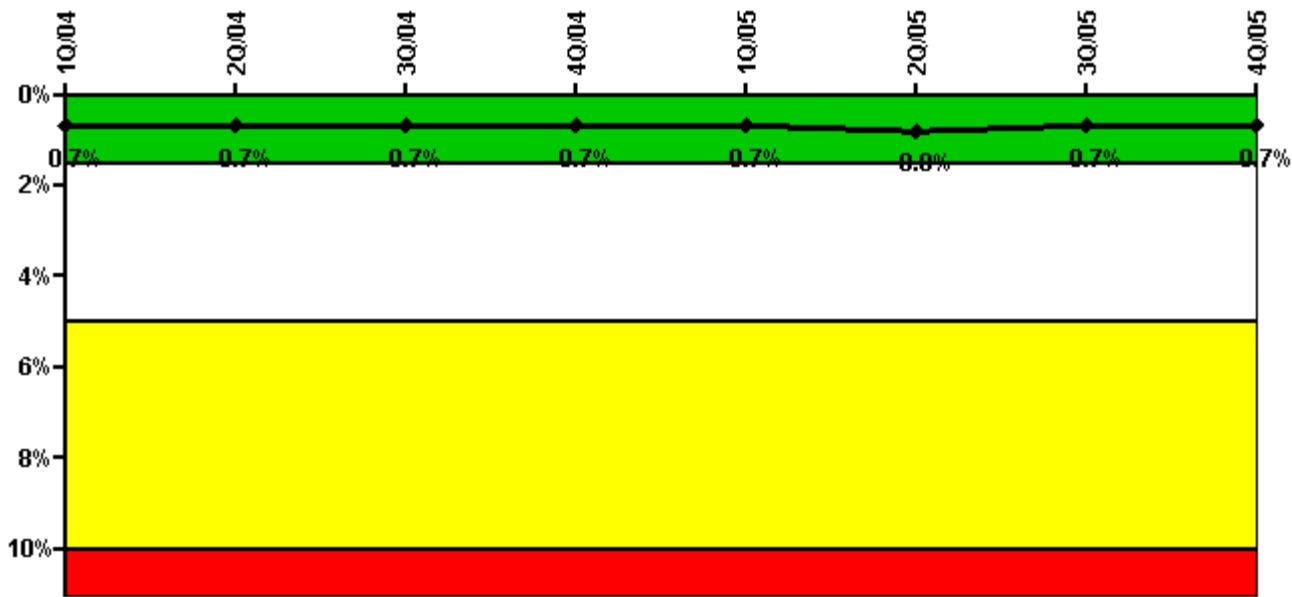
Notes

Safety System Unavailability, Emergency AC Power	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	104.05	5.11	6.53	1.50	11.95	14.87	0.48	83.15
Unplanned unavailable hours	0	0	0	0	0	0	0	39.37
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0.96	86.40	6.33	0.20	10.67	1.80	0.73	99.62
Unplanned unavailable hours	48.40	0	1.43	0	46.13	0	0	10.00
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	1.2%	1.3%	1.4%	1.4%	1.5%	1.4%	1.3%	1.5%

Licensee Comments:

4Q/05: November 2005 T/2 Fault Exposure Hours from Train 2, cylinder 5R fuel oil leak. A fuel leak was discovered at the cylinder 5R fuel pump. The cause of the fuel leak was a cracked snubber valve located between the fuel pump and the high pressure fuel tube. The exact time the snubber cracked and failed is unknown. Only the time of discovery of the snubber failure is known with certainty. T/2 Fault Exposure Hours will be recorded as one half the time from discovery of the fuel leak, which occurred at 17:56 hours on November 20, 2005, until completion of the last successful surveillance test that proved the generator was capable of performing its safety function, which occurred at 10:19 hours on October 28, 2005. Fault Exposure Hour are 559.62 hours/2 = 280 T/2 Fault Exposure Hours.

Safety System Unavailability, High Pressure Injection System (HPSI)



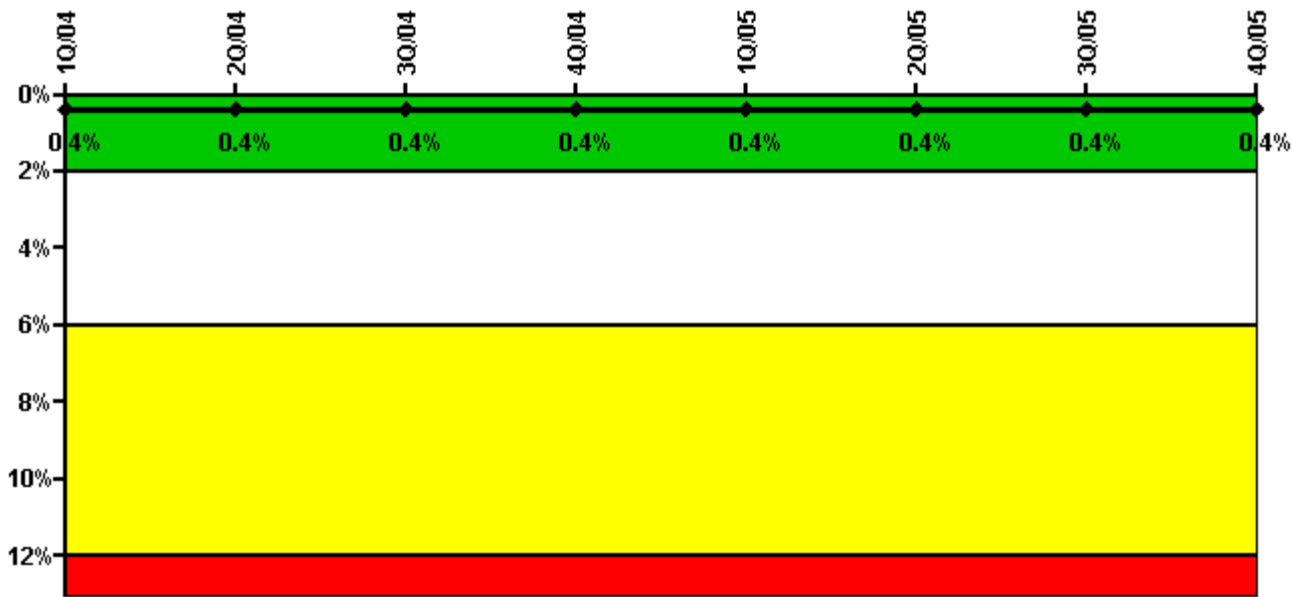
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	46.50	3.86	33.19	0.75	3.78	26.67	0	0.47
Unplanned unavailable hours	0	0	0	0	0	29.95	0	0
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	1842.31	1152.47	2160.00	2183.00	2208.00	2194.45
Train 2								
Planned unavailable hours	30.65	7.15	18.44	0.97	9.60	14.53	0	0.47
Unplanned unavailable hours	0	8.60	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	1842.31	1152.47	2160.00	2183.00	2208.00	2194.45
Indicator value	0.7%	0.7%	0.7%	0.7%	0.7%	0.8%	0.7%	0.7%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



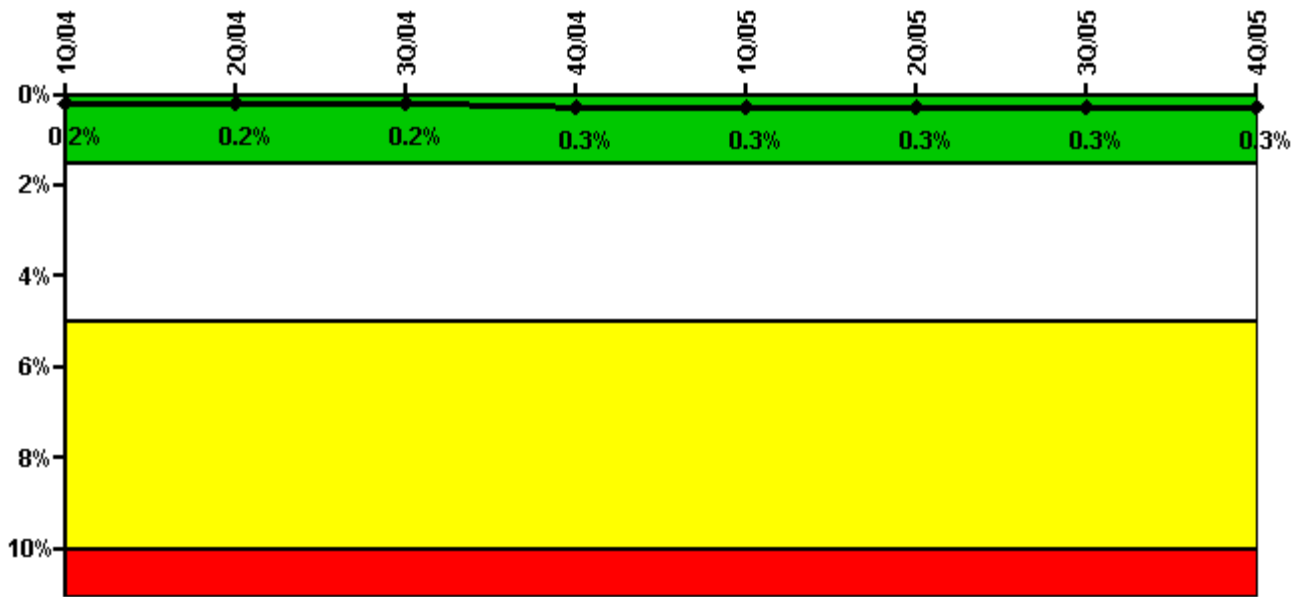
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	1.64	4.68	1.45	2.25	3.08	5.56	9.81	2.46
Unplanned unavailable hours	0	0	0	0	0	4.30	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	1842.31	1152.47	2160.00	2183.00	2208.00	2194.45
Train 2								
Planned unavailable hours	6.97	5.13	1.33	2.32	15.12	8.25	1.87	2.48
Unplanned unavailable hours	0	0	0	0	0	0.68	0	0
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	1776.03	1104.63	2160.00	2183.00	2208.00	2194.45
Train 3								
Planned unavailable hours	22.02	3.73	0.65	0	14.02	1.73	0.92	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	2184.00	2183.00	1842.31	1152.47	2160.00	2183.00	2208.00	2194.45
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



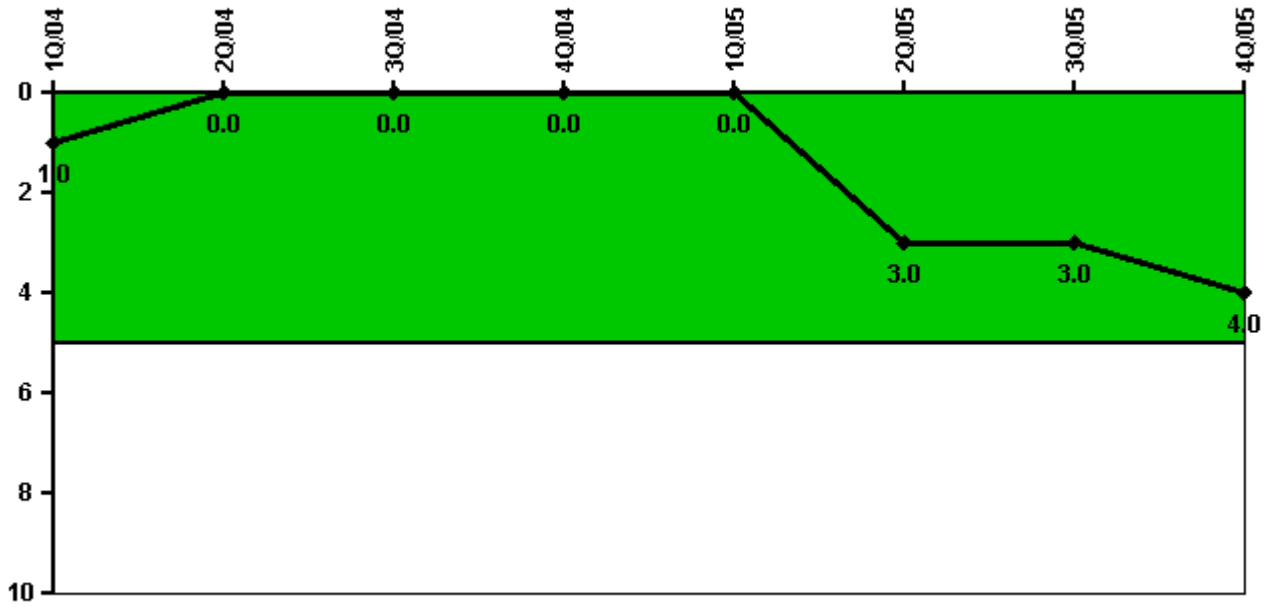
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	1.12	4.36	21.22	0.60	19.37	13.68	3.26	0.68
Unplanned unavailable hours	0	0	0	0	0	0	0	4.52
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	1842.31	1152.47	2160.00	2183.00	2208.00	2194.45
Train 2								
Planned unavailable hours	0	1.30	9.88	0	3.02	0.62	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	1842.31	1152.47	2160.00	2183.00	2208.00	2194.45
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	365.69	845.47	0	0	0	14.55
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	291.20	1021.90	0	0	0	14.55
Indicator value	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

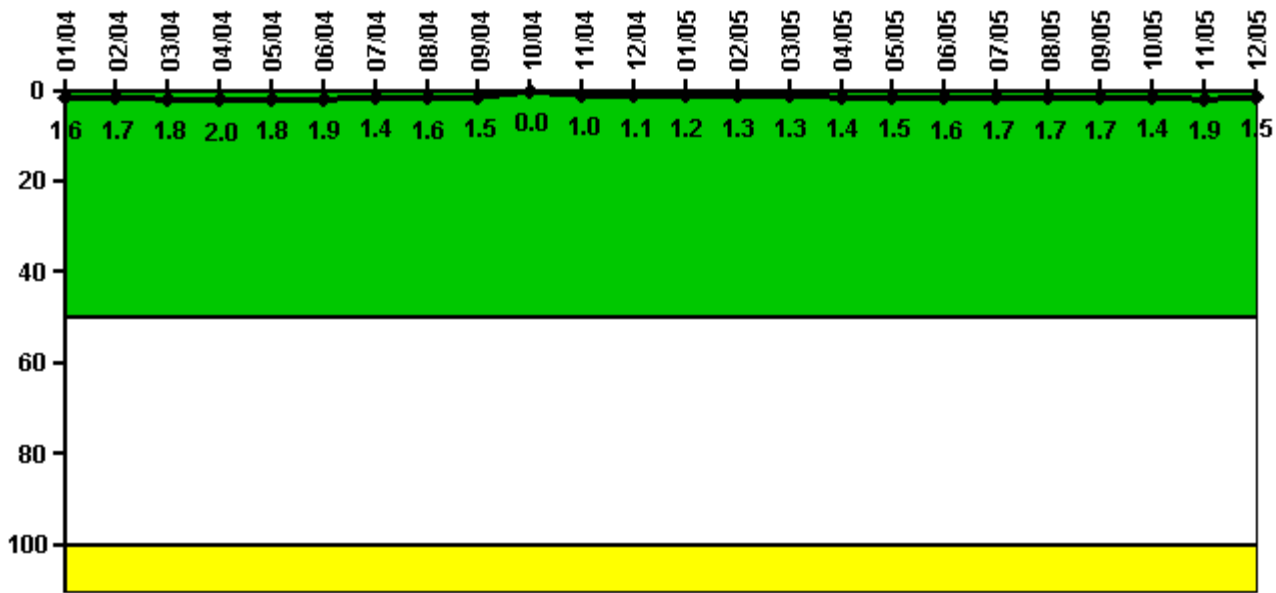
Notes

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

Licensee Comments:

4Q/05: December 2005, LER 2005-006-00, Inoperable Containment Due to Containment Air Cooler Through Wall Flaws.

Reactor Coolant System Activity



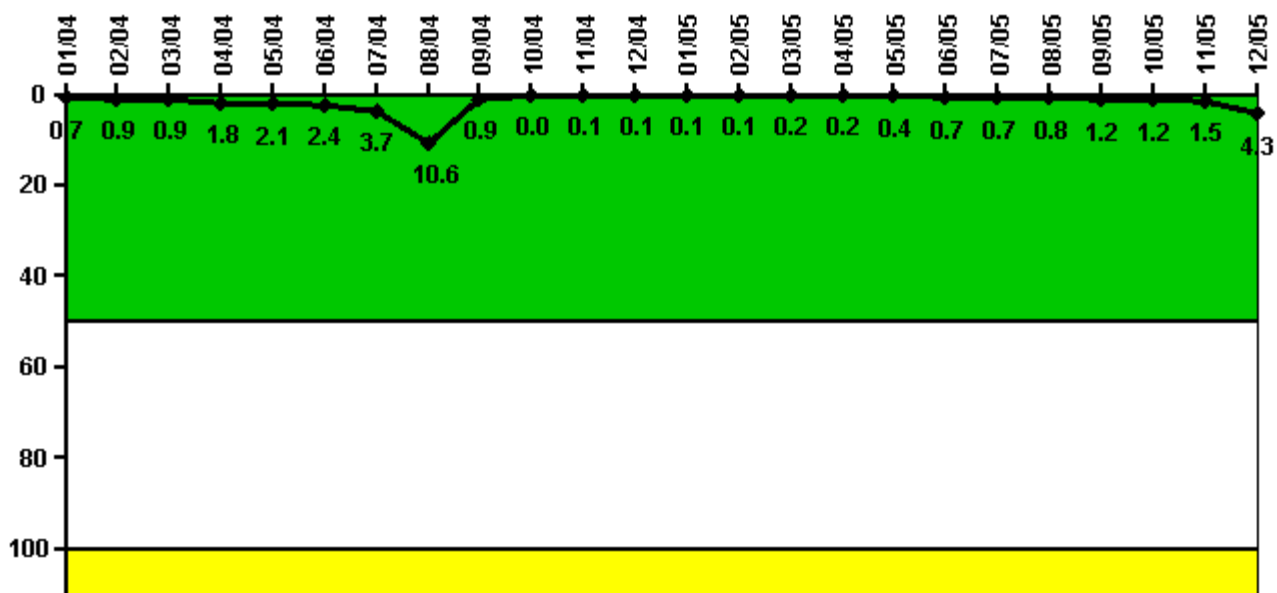
Thresholds: White > 50.0 Yellow > 100.0

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	0.016100	0.016600	0.018400	0.019700	0.018400	0.018800	0.014000	0.016000	0.015000	0.000003	0.010100	0.011100
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.6	1.7	1.8	2.0	1.8	1.9	1.4	1.6	1.5	0	1.0	1.1
Reactor Coolant System Activity	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
Maximum activity	0.012300	0.012600	0.013100	0.014300	0.015200	0.015900	0.017400	0.017300	0.017100	0.013800	0.018600	0.014500
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.2	1.3	1.3	1.4	1.5	1.6	1.7	1.7	1.7	1.4	1.9	1.5

Licensee Comments: none

Reactor Coolant System Leakage



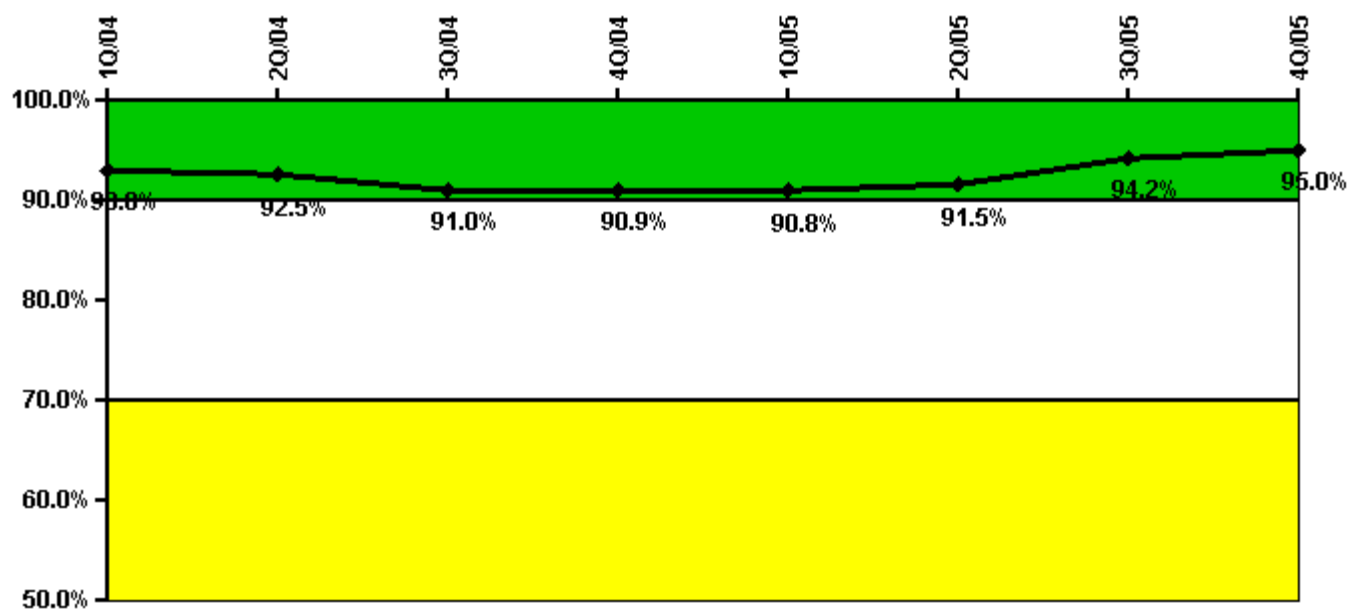
Thresholds: White > 50.0 Yellow > 100.0

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	0.073	0.085	0.094	0.180	0.209	0.240	0.370	1.057	0.085	0	0.005	0.011
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.9	0.9	1.8	2.1	2.4	3.7	10.6	0.9	0	0.1	0.1
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	0.011	0.008	0.020	0.016	0.040	0.066	0.066	0.079	0.120	0.119	0.148	0.429
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	0.1	0.2	0.2	0.4	0.7	0.7	0.8	1.2	1.2	1.5	4.3

Licensee Comments: none

Drill/Exercise Performance



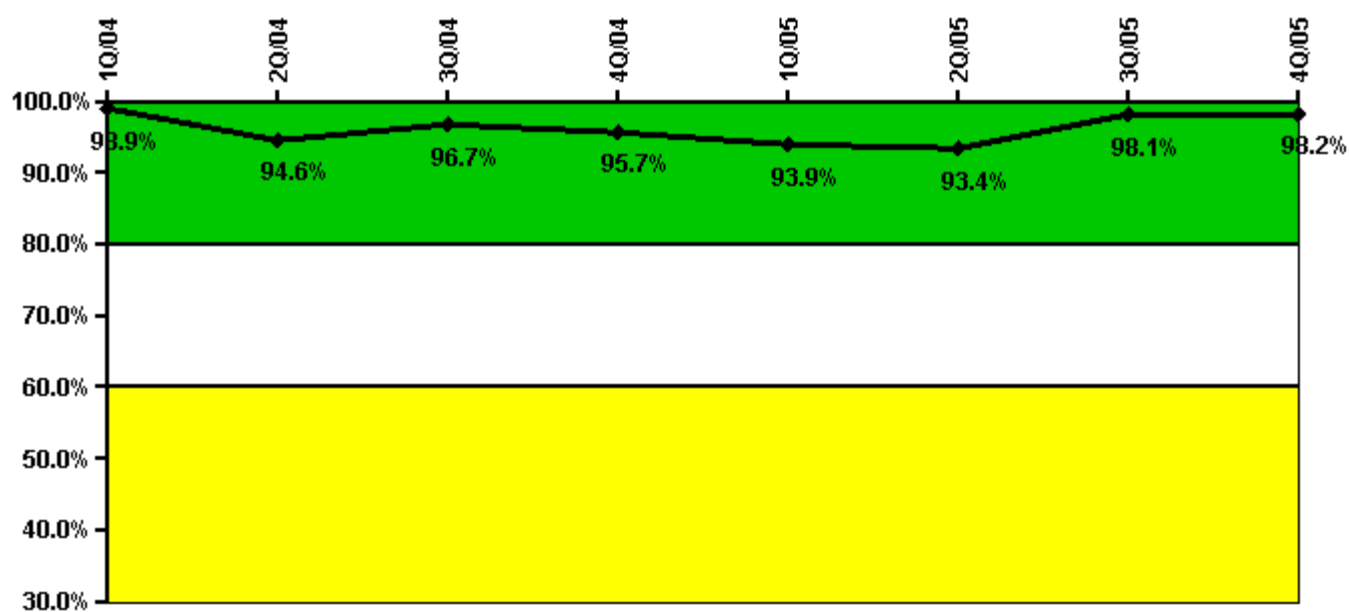
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful opportunities	23.0	27.0	24.0	11.0	85.0	75.0	82.0	12.0
Total opportunities	25.0	28.0	29.0	12.0	91.0	78.0	82.0	12.0
Indicator value	93.0%	92.5%	91.0%	90.9%	90.8%	91.5%	94.2%	95.0%

Licensee Comments: none

ERO Drill Participation



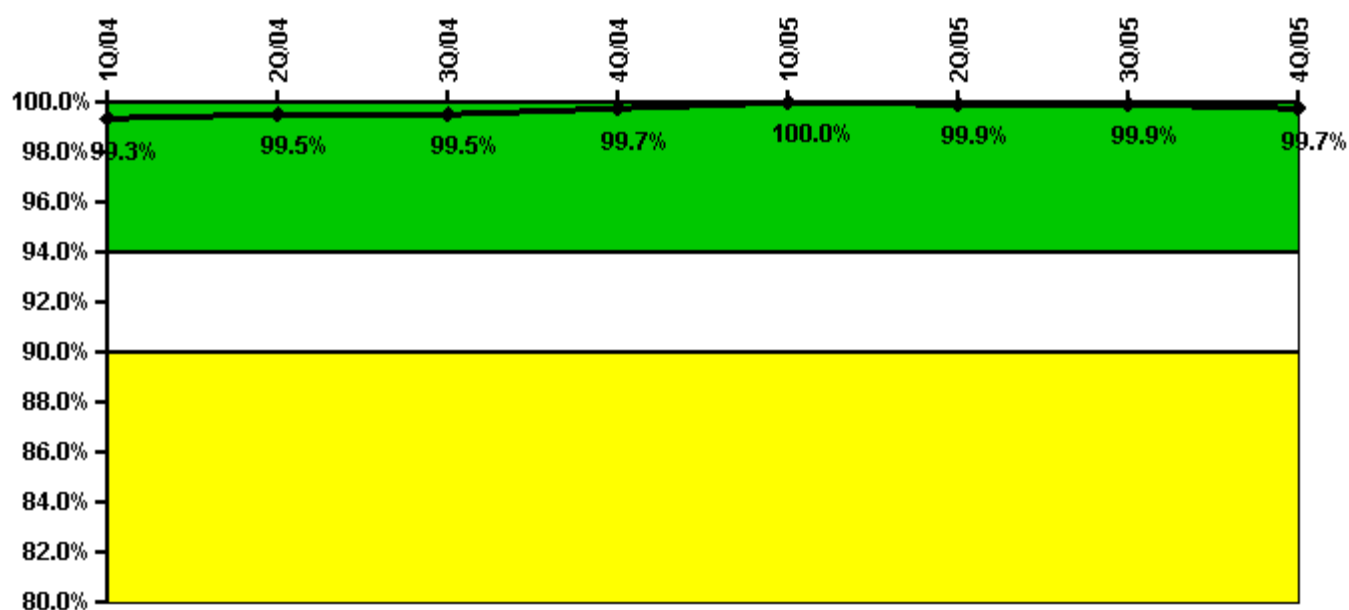
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Participating Key personnel	86.0	87.0	89.0	88.0	92.0	99.0	106.0	107.0
Total Key personnel	87.0	92.0	92.0	92.0	98.0	106.0	108.0	109.0
Indicator value	98.9%	94.6%	96.7%	95.7%	93.9%	93.4%	98.1%	98.2%

Licensee Comments: none

Alert & Notification System



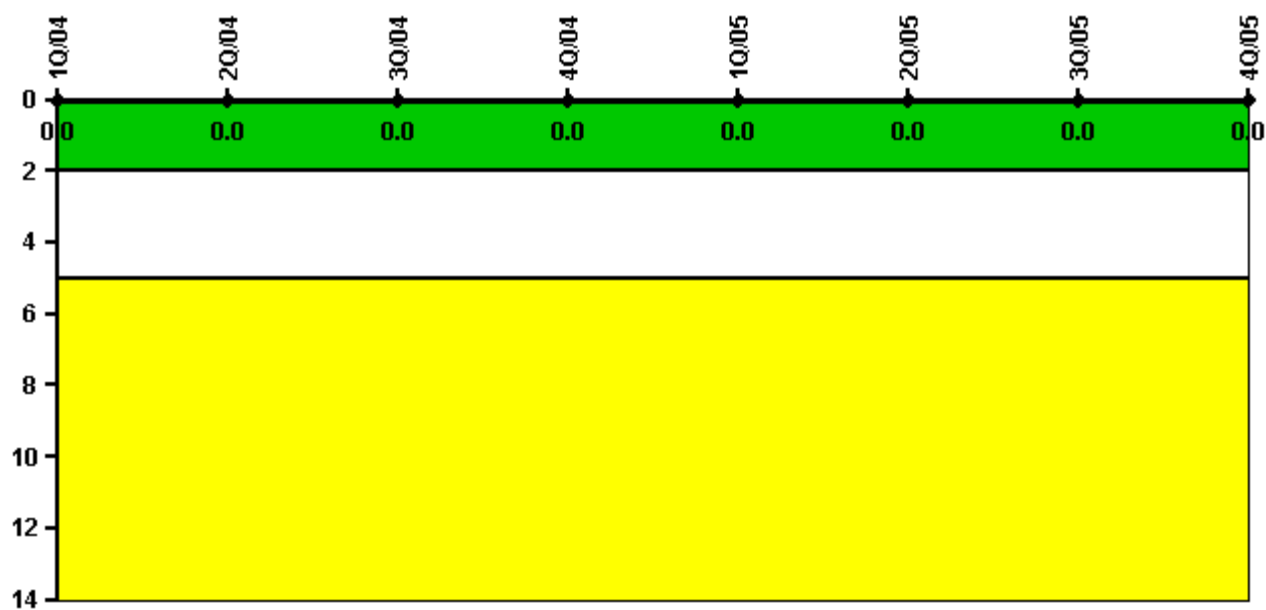
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful siren-tests	181	183	183	183	183	182	183	182
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.3%	99.5%	99.5%	99.7%	100.0%	99.9%	99.9%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



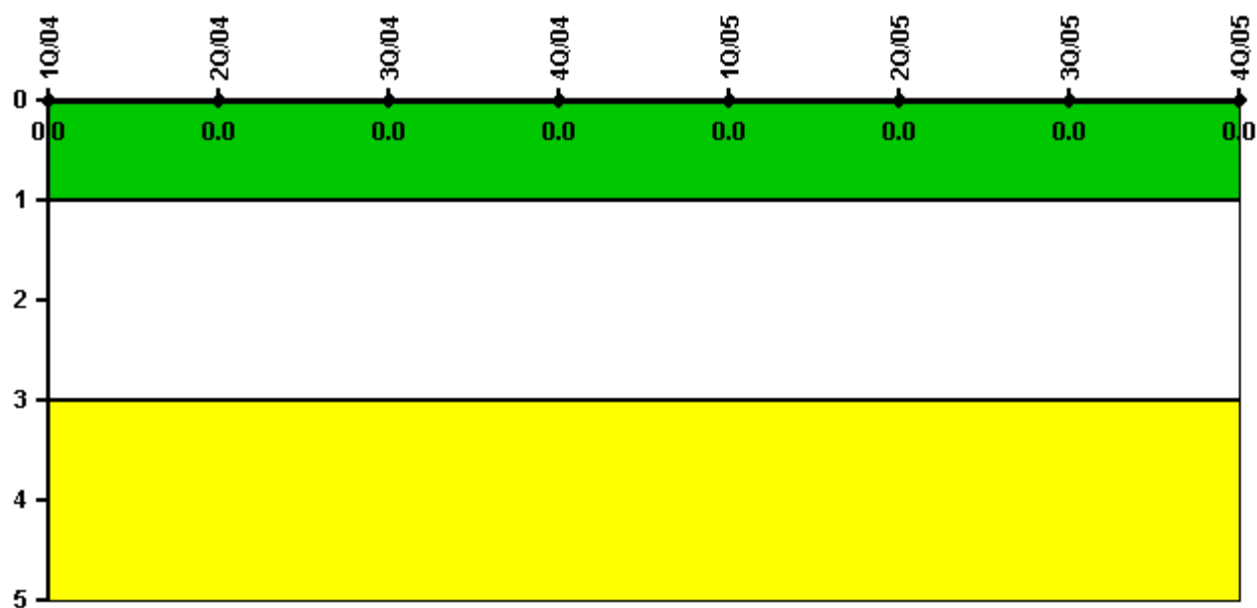
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

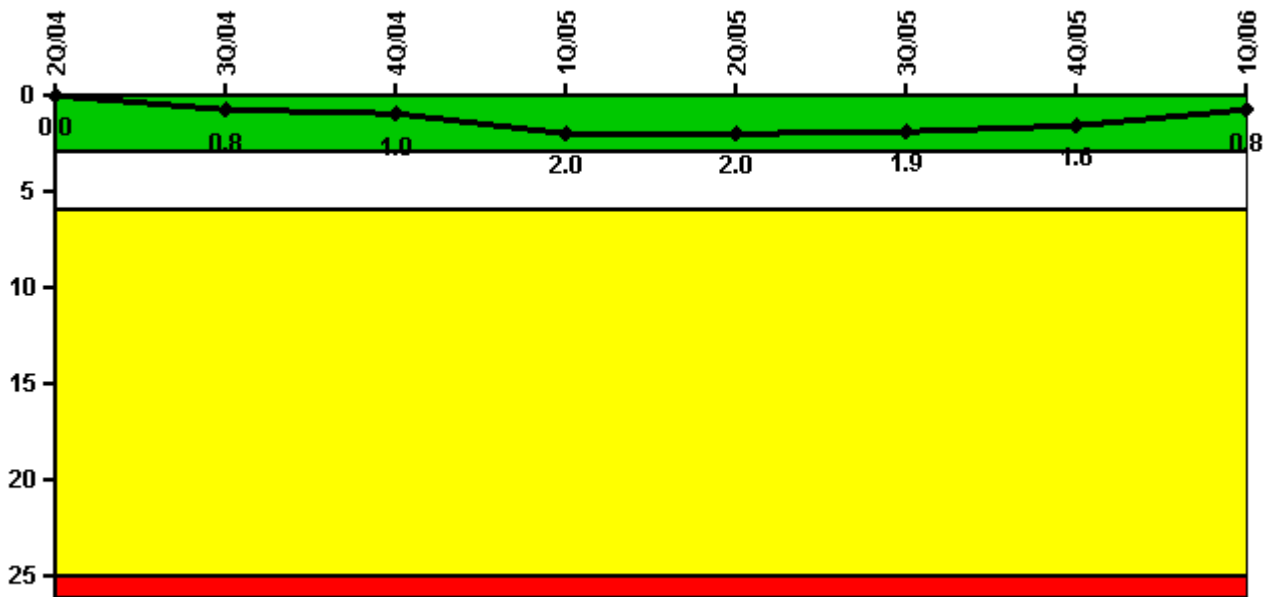
Last Modified: January 30, 2006

Palisades

1Q/2006 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



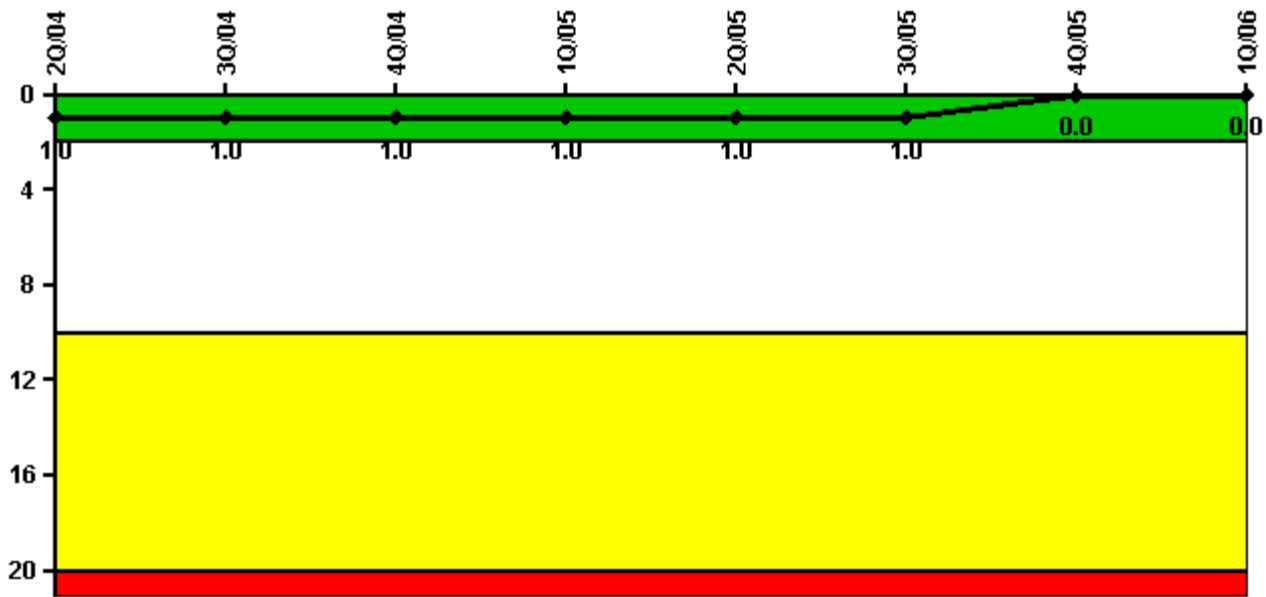
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned scrams	0	1.0	0	1.0	0	1.0	0	0
Critical hours	2183.0	1756.4	1104.6	2039.5	2183.0	2173.7	2185.2	2035.3
Indicator value	0	0.8	1.0	2.0	2.0	1.9	1.6	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



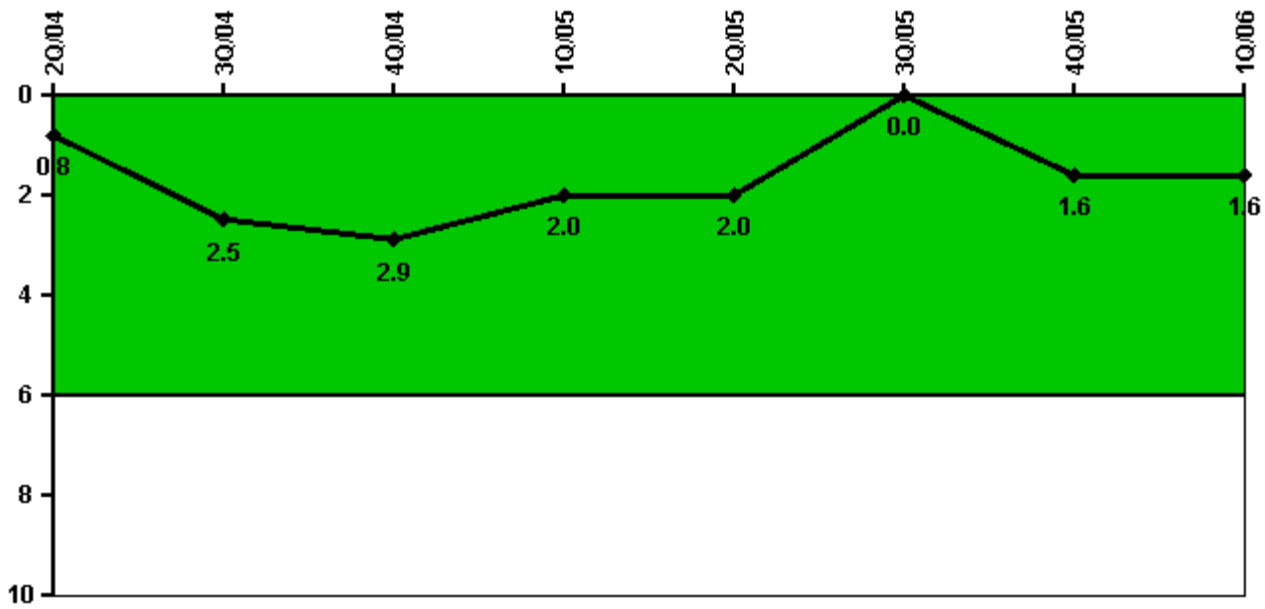
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



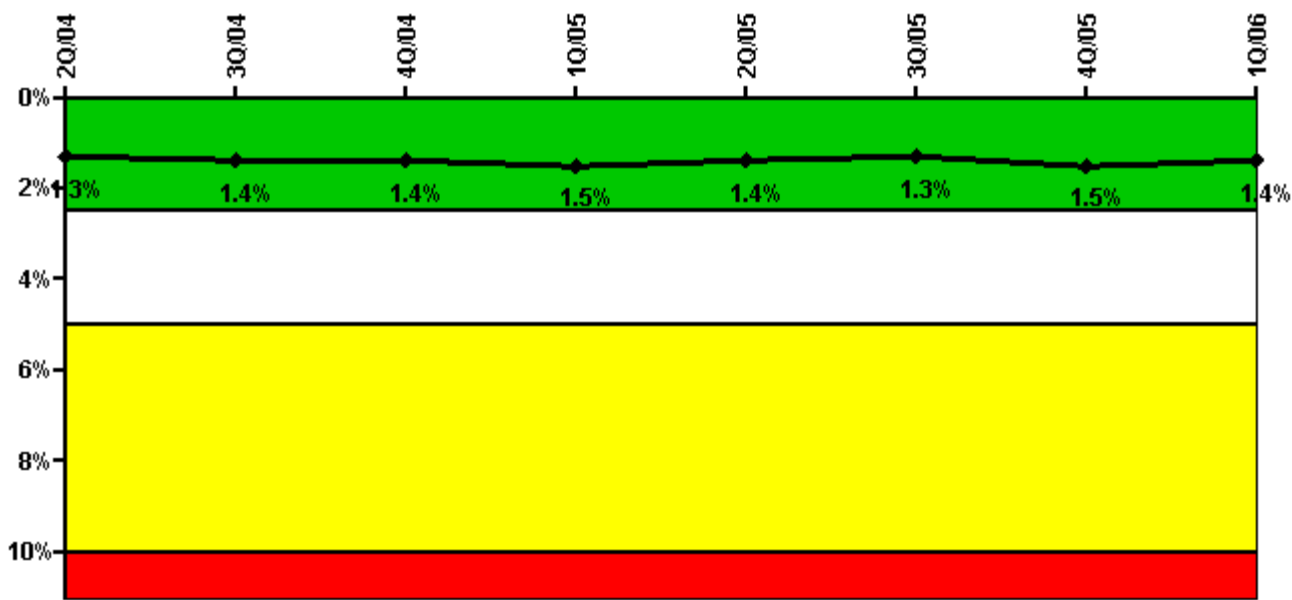
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned power changes	0	2.0	0	0	0	0	2.0	0
Critical hours	2183.0	1756.4	1104.6	2039.5	2183.0	2173.7	2185.2	2035.3
Indicator value	0.8	2.5	2.9	2.0	2.0	0	1.6	1.6

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



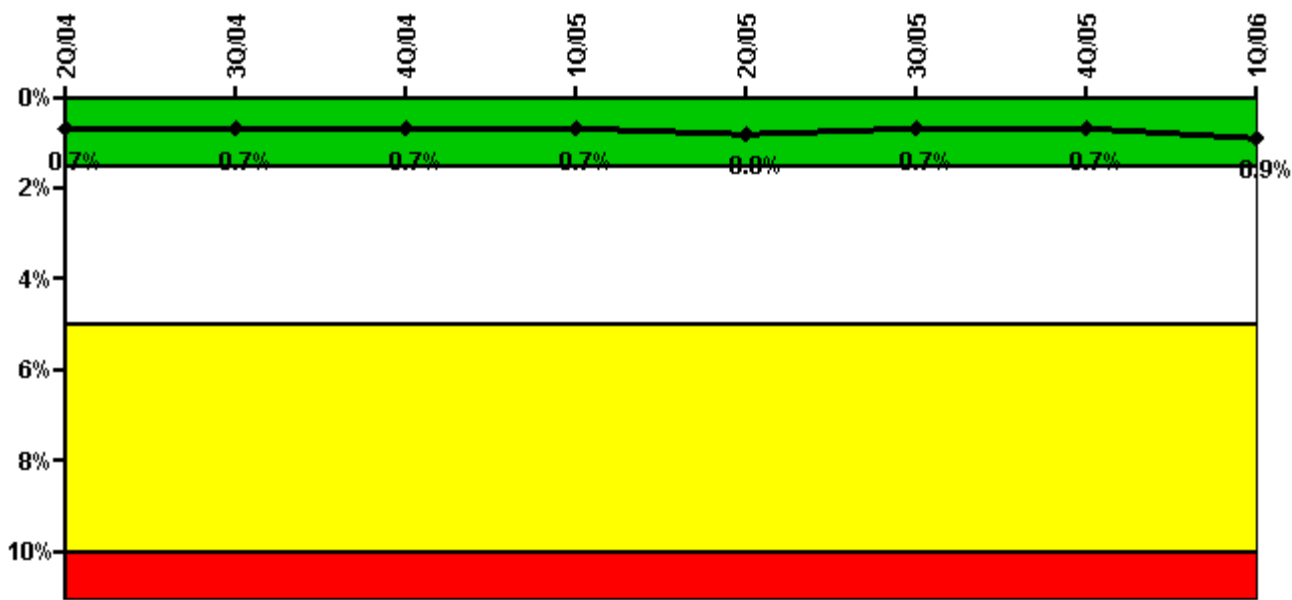
Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	5.11	6.53	1.50	11.95	14.87	0.48	83.15	2.15
Unplanned unavailable hours	0	0	0	0	0	0	39.37	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	86.40	6.33	0.20	10.67	1.80	0.73	99.62	0.48
Unplanned unavailable hours	0	1.43	0	46.13	0	0	10.00	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	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	1.3%	1.4%	1.4%	1.5%	1.4%	1.3%	1.5%	1.4%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



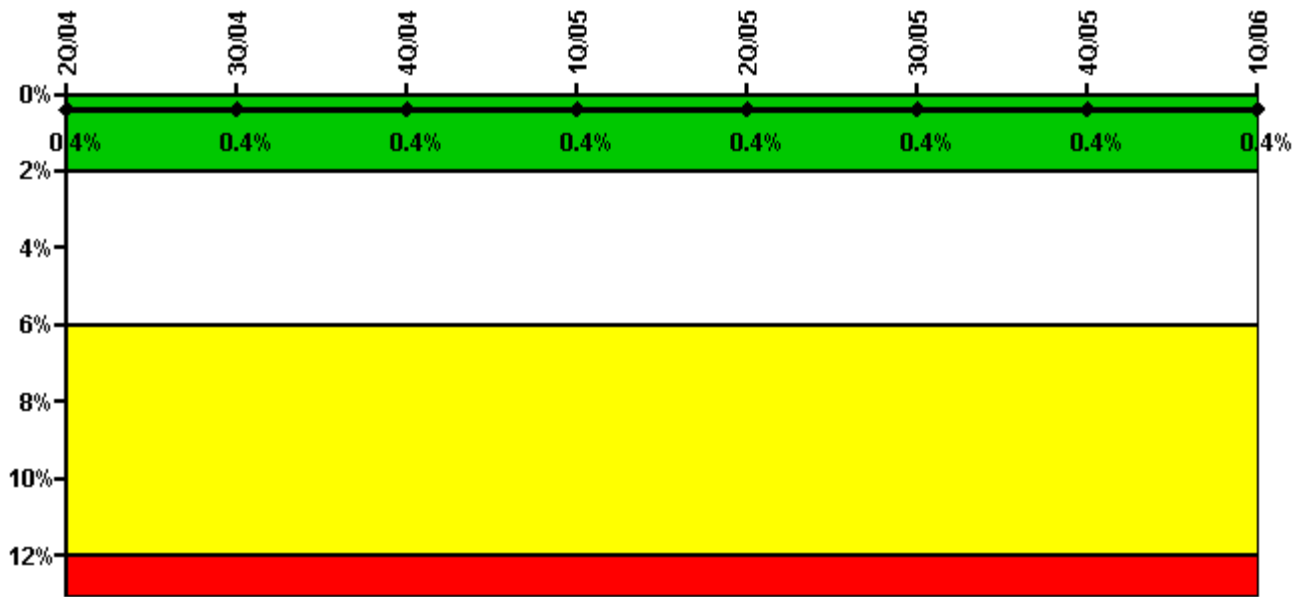
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	3.86	33.19	0.75	3.78	26.67	0	0.47	28.95
Unplanned unavailable hours	0	0	0	0	29.95	0	0	0
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	1842.31	1152.47	2160.00	2183.00	2208.00	2194.45	2076.95
Train 2								
Planned unavailable hours	7.15	18.44	0.97	9.60	14.53	0	0.47	26.12
Unplanned unavailable hours	8.60	0	0	0	0	0	0	59.75
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1842.31	1152.47	2160.00	2183.00	2208.00	2194.45	2076.95
Indicator value	0.7%	0.7%	0.7%	0.7%	0.8%	0.7%	0.7%	0.9%

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	4.68	1.45	2.25	3.08	5.56	9.81	2.46	1.33
Unplanned unavailable hours	0	0	0	0	4.30	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1842.31	1152.47	2160.00	2183.00	2208.00	2194.45	2076.95
Train 2								
Planned unavailable hours	5.13	1.33	2.32	15.12	8.25	1.87	2.48	1.35
Unplanned unavailable hours	0	0	0	0	0.68	0	0	0
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	1776.03	1104.63	2160.00	2183.00	2208.00	2194.45	2076.95
Train 3								
Planned unavailable hours	3.73	0.65	0	14.02	1.73	0.92	0.80	2.28
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	2183.00	1842.31	1152.47	2160.00	2183.00	2208.00	2194.45	2076.95
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

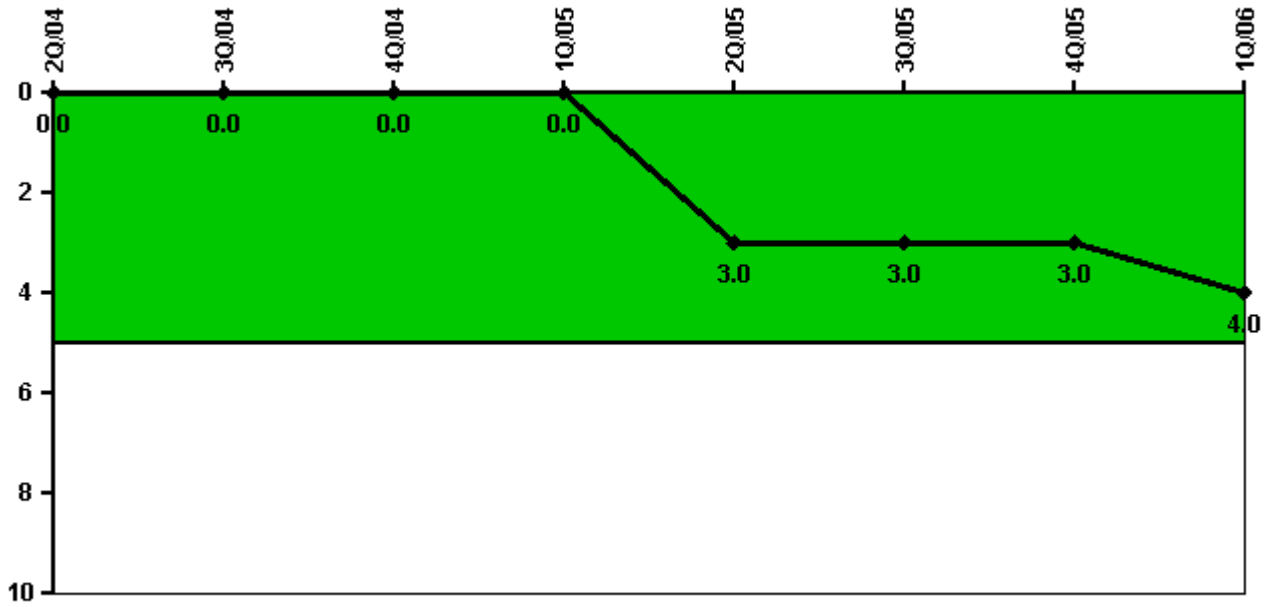
Age Group	Percentage
2Q/04	0.2%
3Q/04	0.2%
4Q/04	0.3%
1Q/05	0.3%
2Q/05	0.3%
3Q/05	0.3%
4Q/05	0.3%
1Q/06	0.2%

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	4.36	21.22	0.60	19.37	13.68	3.26	0.68	7.20
Unplanned unavailable hours	0	0	0	0	0	0	4.52	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	2183.00	1842.31	1152.47	2160.00	2183.00	2208.00	2194.45	2076.95
Train 2								
Planned unavailable hours	1.30	9.88	0	3.02	0.62	0	0	1.91
Unplanned unavailable hours	0	0	0	0	0	0	0	0.34
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	1842.31	1152.47	2160.00	2183.00	2208.00	2194.45	2076.95
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	365.69	845.47	0	0	0	14.55	83.05
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	291.20	1021.90	0	0	0	14.55	83.05
Indicator value	0.2%	0.2%	0.3%	0.3%	0.3%	0.3%	0.3%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

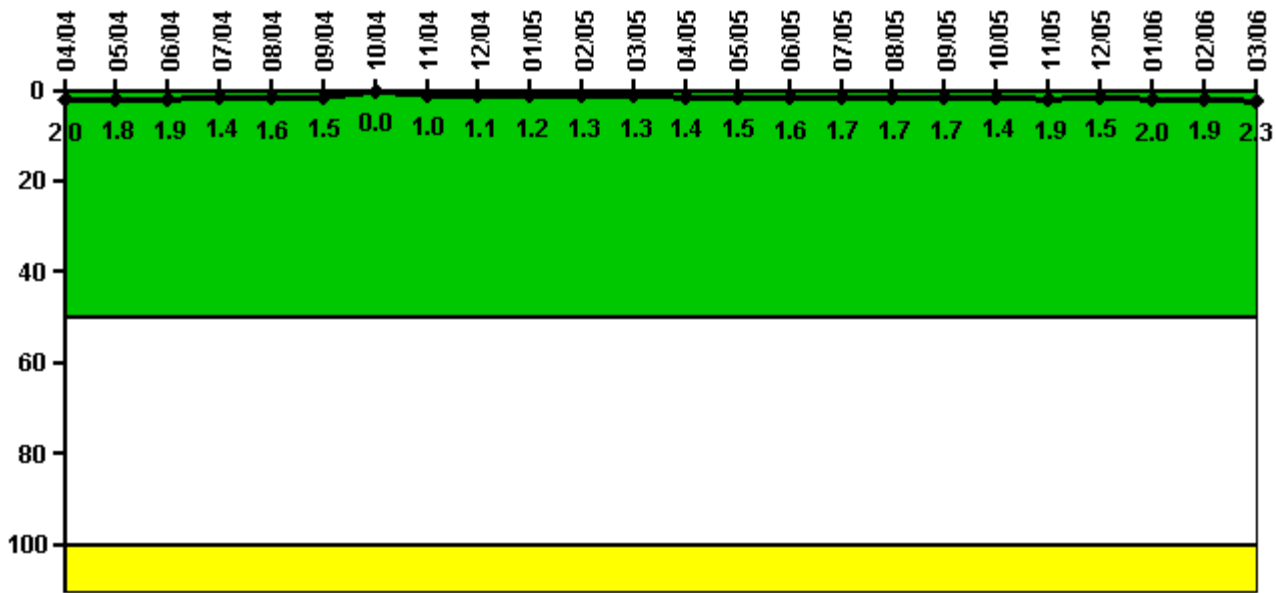
Notes

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	3	0	0	1
Indicator value	0	0	0	0	3	3	3	4

Licensee Comments:

4Q/05: The December 2005 SSFF performance indicator has been changed from a value of 1 to a value of 0. The reduced number is a result of cancelling the December 2005, LER 2005-006-00, Inoperable Containment Due to Containment Air Cooler Through Wall Flaws. LER 2005-006 was cancelled via NMC letter to USNRC Document Control Desk, dated March 30, 2006.

Reactor Coolant System Activity



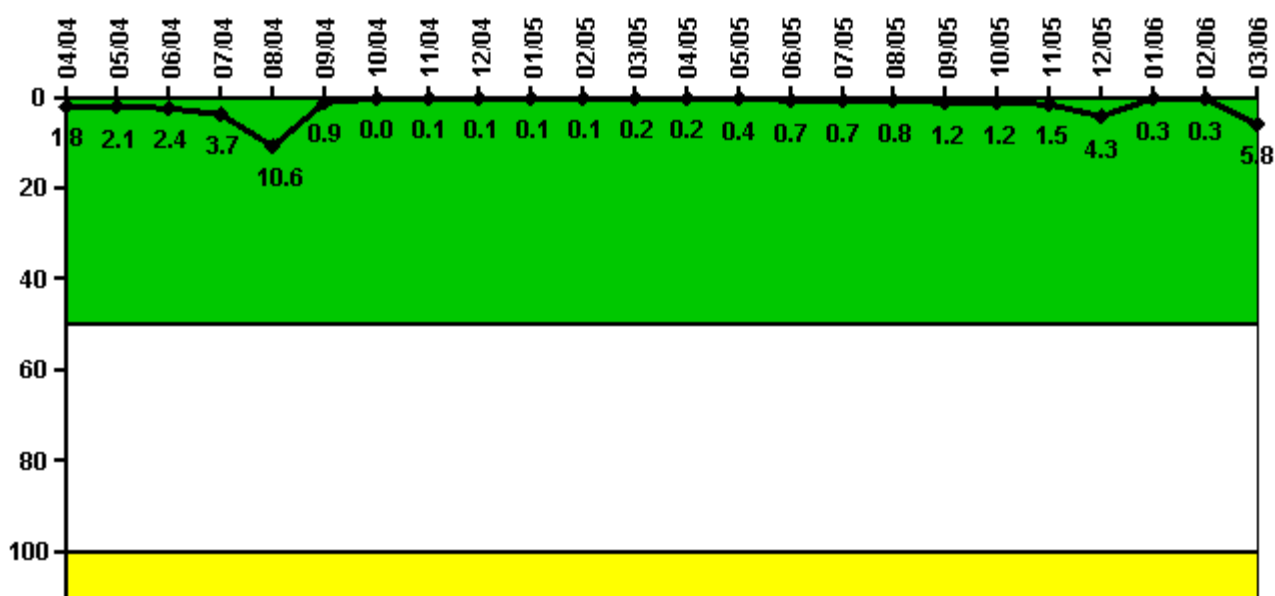
Thresholds: White > 50.0 Yellow > 100.0

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	0.019700	0.018400	0.018800	0.014000	0.016000	0.015000	0.000003	0.010100	0.011100	0.012300	0.012600	0.013100
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	2.0	1.8	1.9	1.4	1.6	1.5	0	1.0	1.1	1.2	1.3	1.3
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	0.014300	0.015200	0.015900	0.017400	0.017300	0.017100	0.013800	0.018600	0.014500	0.020000	0.019200	0.022700
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.4	1.5	1.6	1.7	1.7	1.7	1.4	1.9	1.5	2.0	1.9	2.3

Licensee Comments: none

Reactor Coolant System Leakage



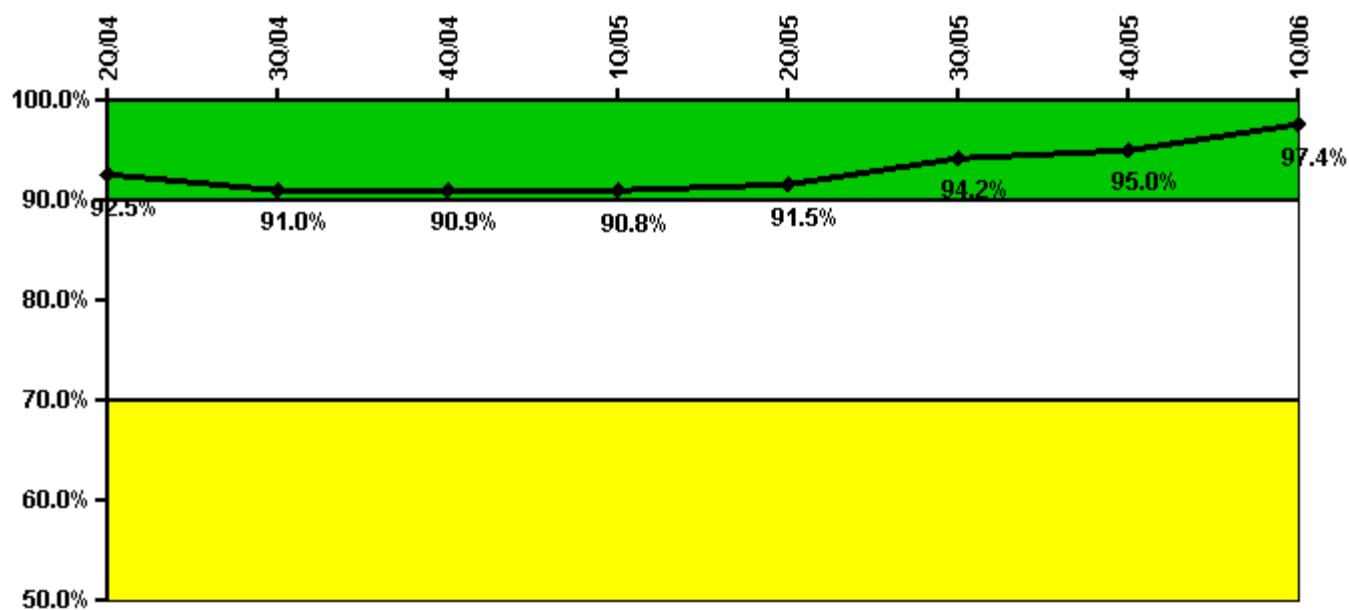
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05
Maximum leakage	0.180	0.209	0.240	0.370	1.057	0.085	0	0.005	0.011	0.011	0.008	0.020
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.8	2.1	2.4	3.7	10.6	0.9	0	0.1	0.1	0.1	0.1	0.2
Reactor Coolant System Leakage	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum leakage	0.016	0.040	0.066	0.066	0.079	0.120	0.119	0.148	0.429	0.026	0.033	0.581
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.2	0.4	0.7	0.7	0.8	1.2	1.2	1.5	4.3	0.3	0.3	5.8

Licensee Comments: none

Drill/Exercise Performance



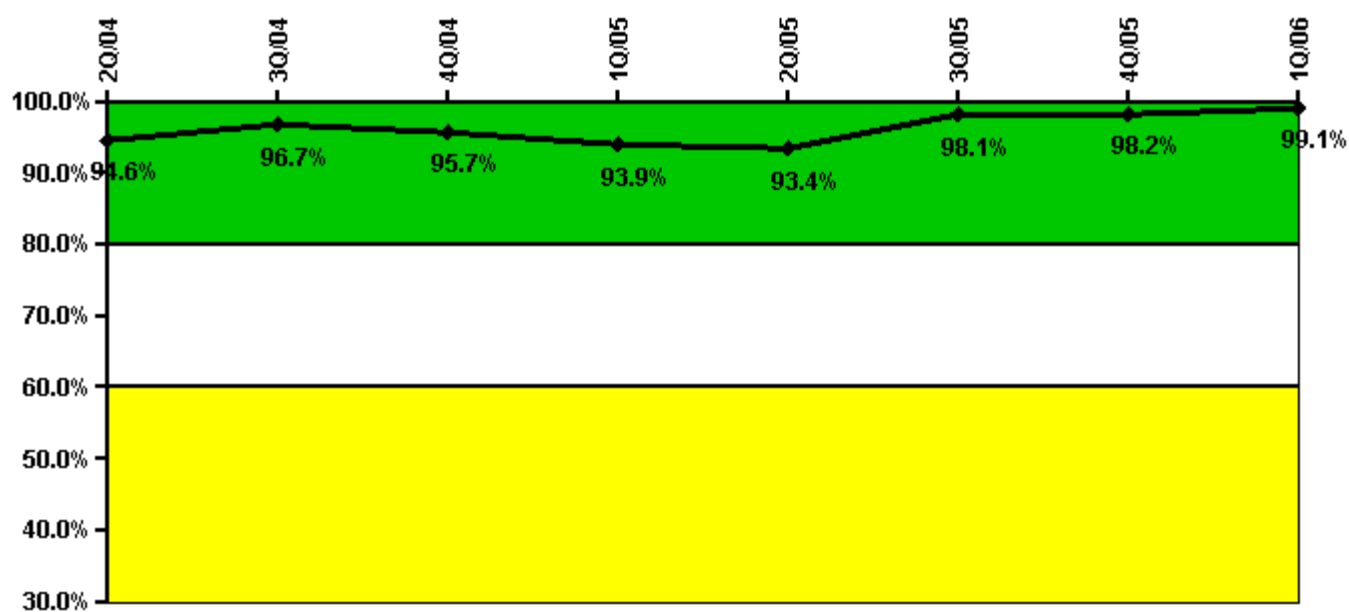
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful opportunities	27.0	24.0	11.0	85.0	75.0	82.0	12.0	101.0
Total opportunities	28.0	29.0	12.0	91.0	78.0	82.0	12.0	96.0
Indicator value	92.5%	91.0%	90.9%	90.8%	91.5%	94.2%	95.0%	97.4%

Licensee Comments: none

ERO Drill Participation



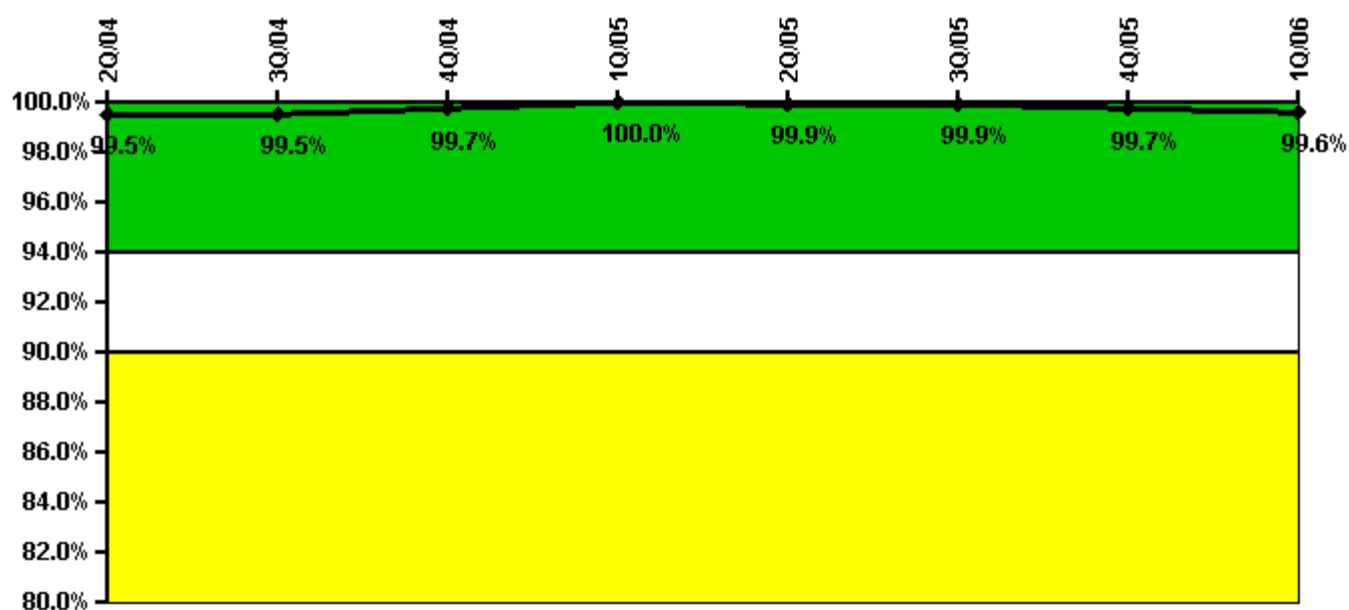
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Participating Key personnel	87.0	89.0	88.0	92.0	99.0	106.0	107.0	114.0
Total Key personnel	92.0	92.0	92.0	98.0	106.0	108.0	109.0	115.0
Indicator value	94.6%	96.7%	95.7%	93.9%	93.4%	98.1%	98.2%	99.1%

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	183	183	183	183	182	183	182	182
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.5%	99.5%	99.7%	100.0%	99.9%	99.9%	99.7%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



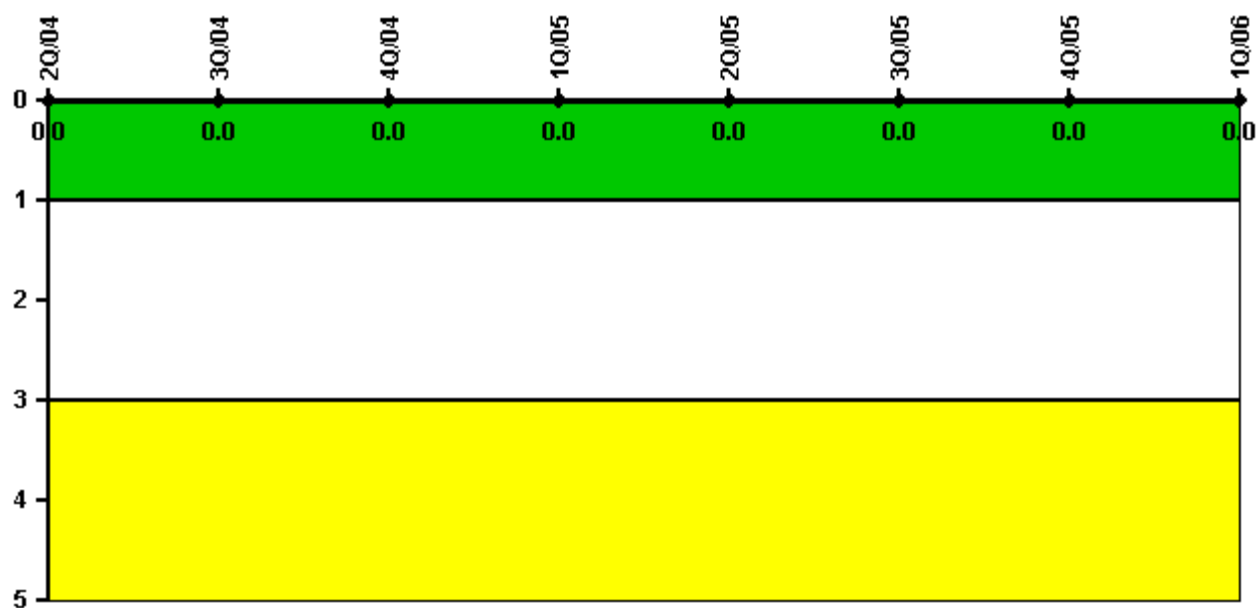
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

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

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

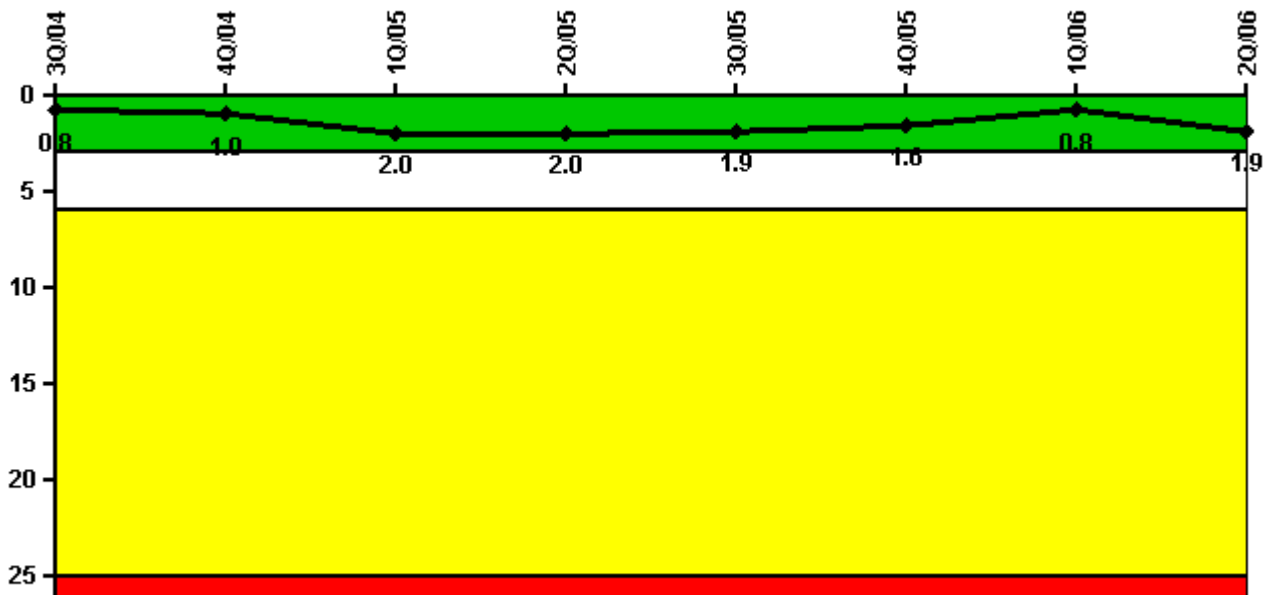
Last Modified: May 5, 2006

Palisades

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

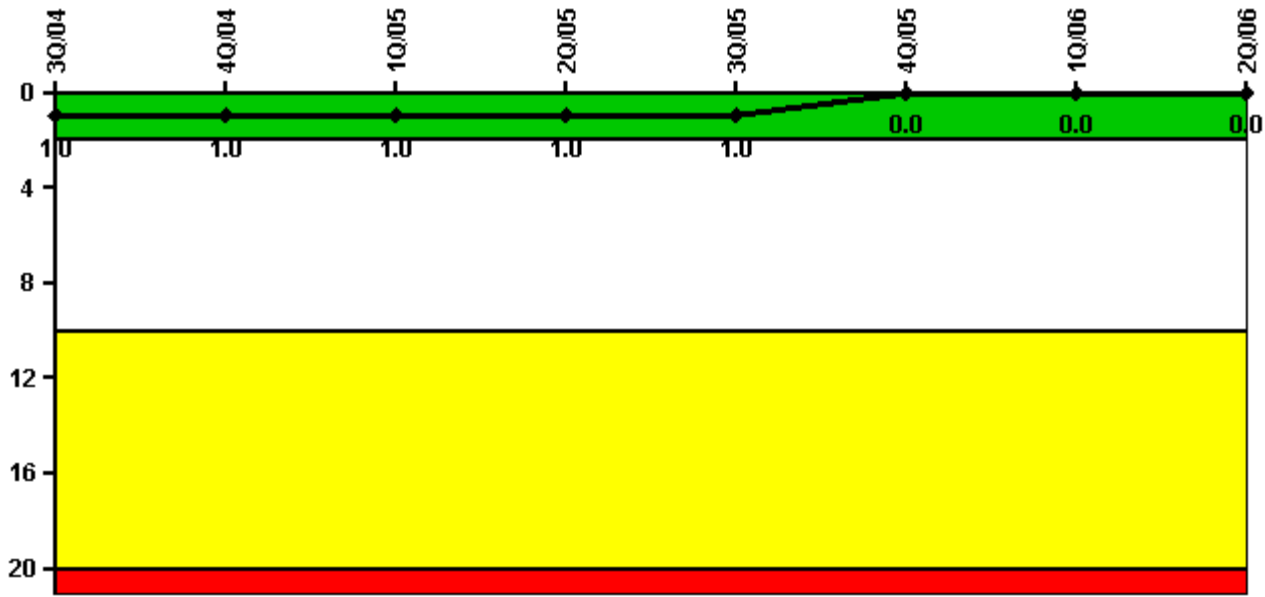
Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Unplanned scrams	1.0	0	1.0	0	1.0	0	0	1.0
Critical hours	1756.4	1104.6	2039.5	2183.0	2173.7	2185.2	2035.3	1155.0
Indicator value	0.8	1.0	2.0	2.0	1.9	1.6	0.8	1.9

Licensee Comments:

2Q/06: Plant scram due to identification of uncoupled control rod.

Scrams with Loss of Normal Heat Removal



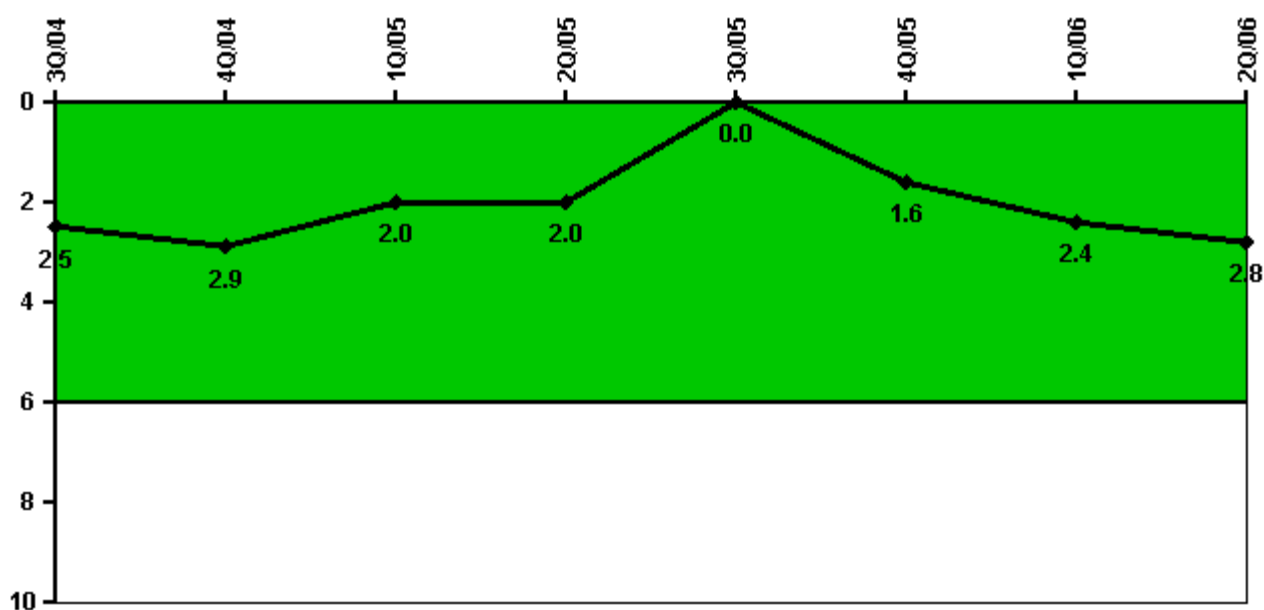
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

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	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

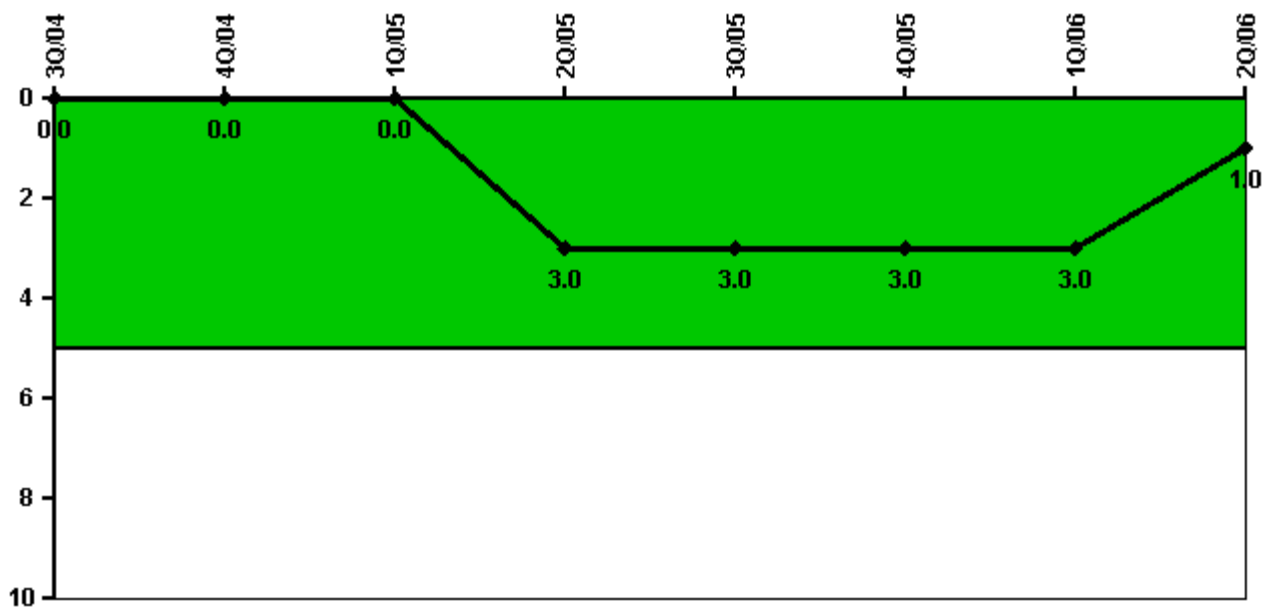
Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Unplanned power changes	2.0	0	0	0	0	2.0	1.0	0
Critical hours	1756.4	1104.6	2039.5	2183.0	2173.7	2185.2	2035.3	1155.0
Indicator value	2.5	2.9	2.0	2.0	0	1.6	2.4	2.8

Licensee Comments:

1Q/06: Palisades reduced power on 03/31/2006 for inoperability of high pressure safety injection subcooling cooling Valve, CV-3070. The power reduction should have been included as an unplanned power change for March 2006. The station did not recognize that the unplanned power change criteria had been met until after the 1st quarter 2006 NRC performance indicator data submittal.

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

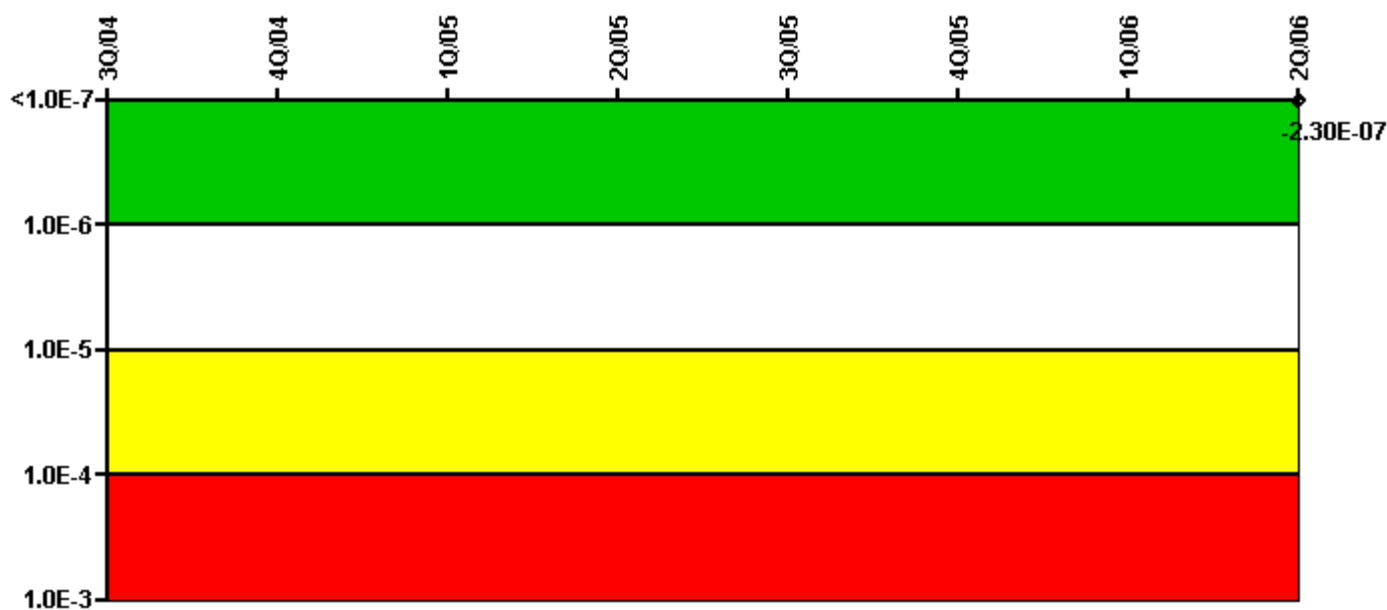
Safety System Functional Failures (PWR)	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Safety System Functional Failures	0	0	0	3	0	0	0	1
Indicator value	0	0	0	3	3	3	3	1

Licensee Comments:

2Q/06: The SSFF for April 2006 is the result of LER 2006-001-00, Potential Loss of Primary Coolant Makeup Function for Postulated Fire Scenario.

1Q/06: On July 7, 2006 Palisades notified the NRC of the cancellation of LER 2005-007-00, Inoperable Emergency Diesel Generator for a Time Longer than Permitted by Technical Specifications. LER 2005-007-00 was recorded as a safety system function failure in January 2006. Since the LER has been cancelled the January 2006 safety system function failure has been removed.

Mitigating Systems Performance Index, Emergency AC Power System



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

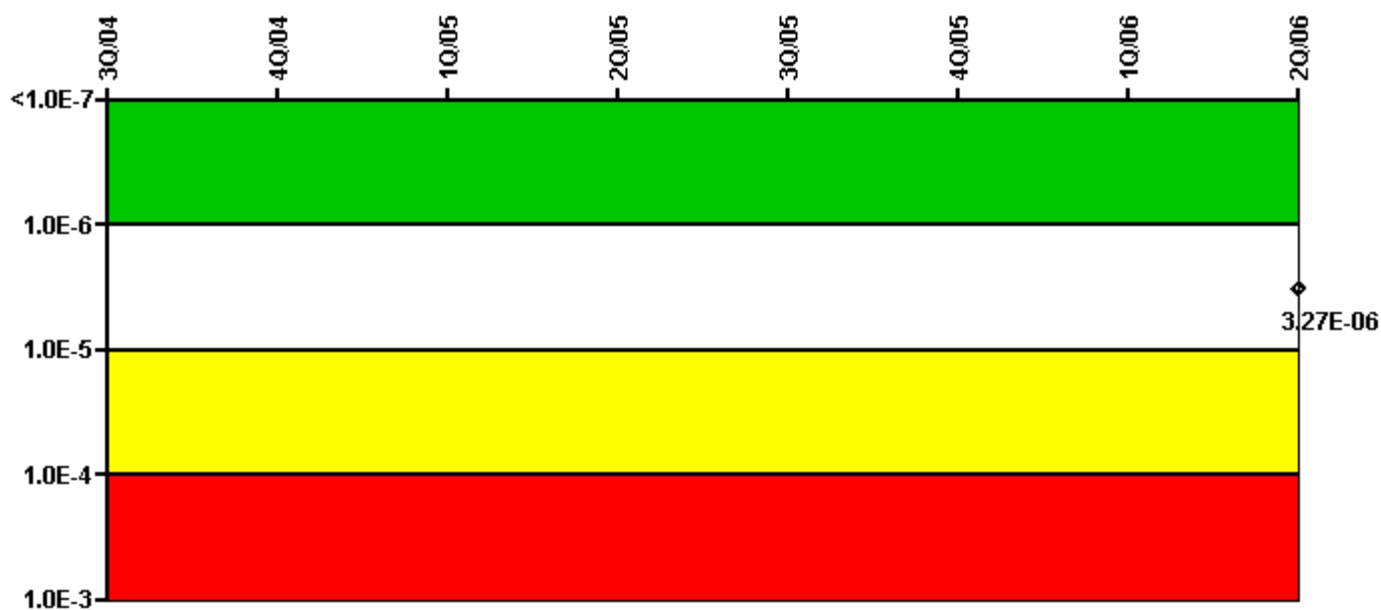
Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								2.20E-07
URI (ΔCDF)								-4.50E-07
PLE								NO
Indicator value								-2.30E-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

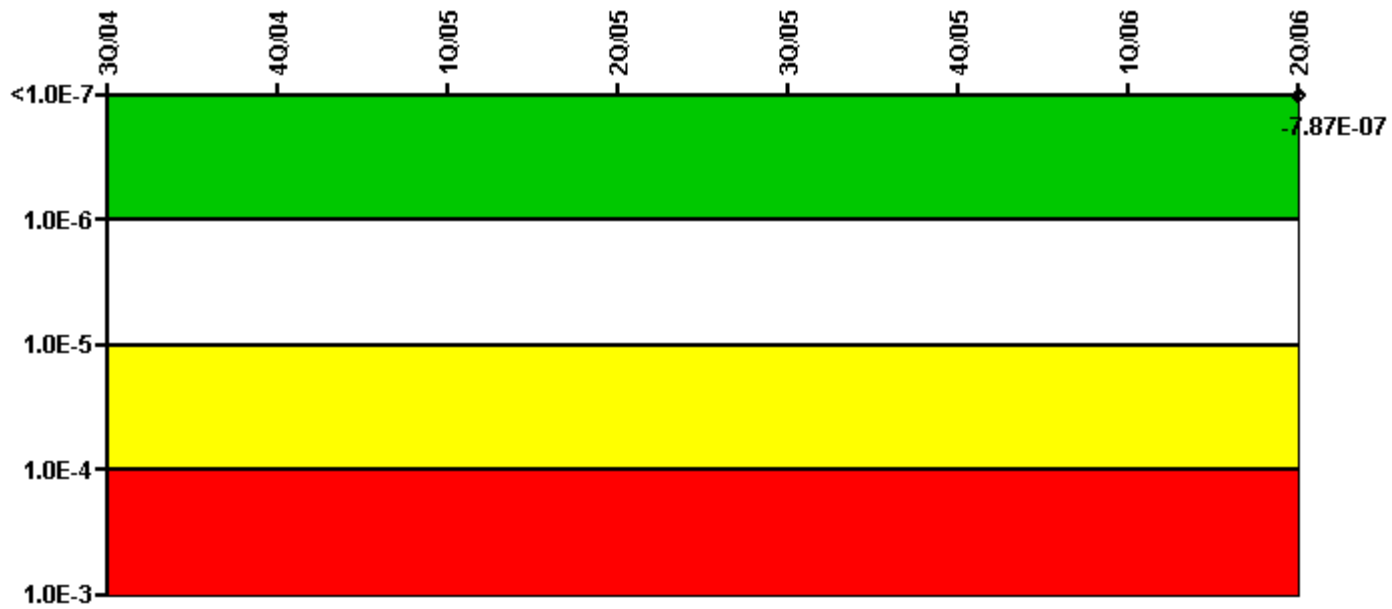
Notes

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)								4.70E-07
URI (ΔCDF)								2.80E-06
PLE								NO
Indicator value								3.27E-06

Licensee Comments:

2Q/06: Risk Cap Invoked.

Mitigating Systems Performance Index, Heat Removal System



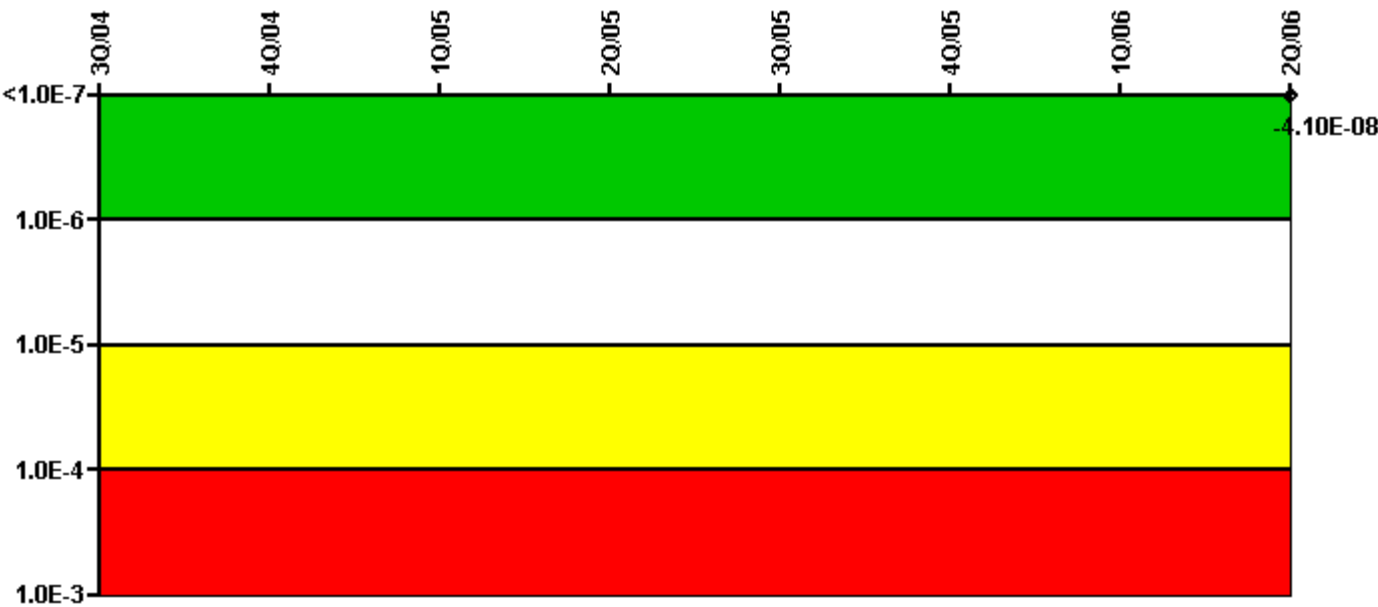
Thresholds: White $> 1.00E-6$ Yellow $> 1.00E-5$ Red $> 1.00E-4$

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (Δ CDF)								-4.70E-08
URI (Δ CDF)								-7.40E-07
PLE								NO
Indicator value								-7.87E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



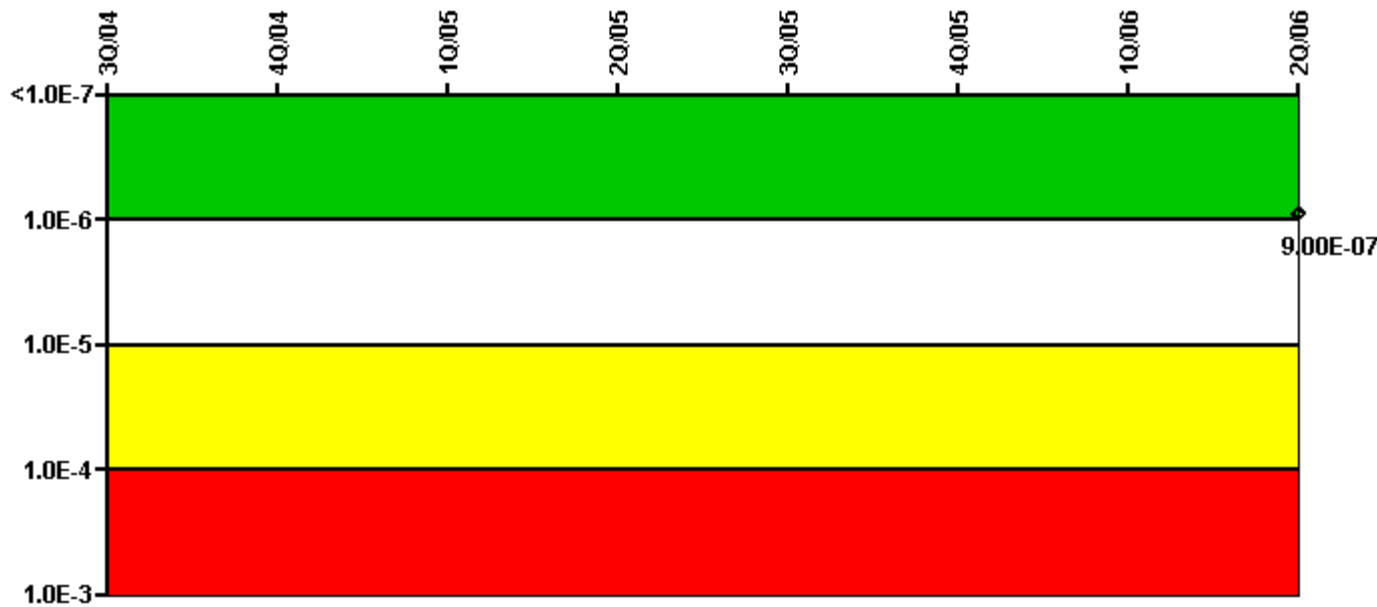
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								1.20E-08
URI (ΔCDF)								-5.30E-08
PLE								NO
Indicator value								-4.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

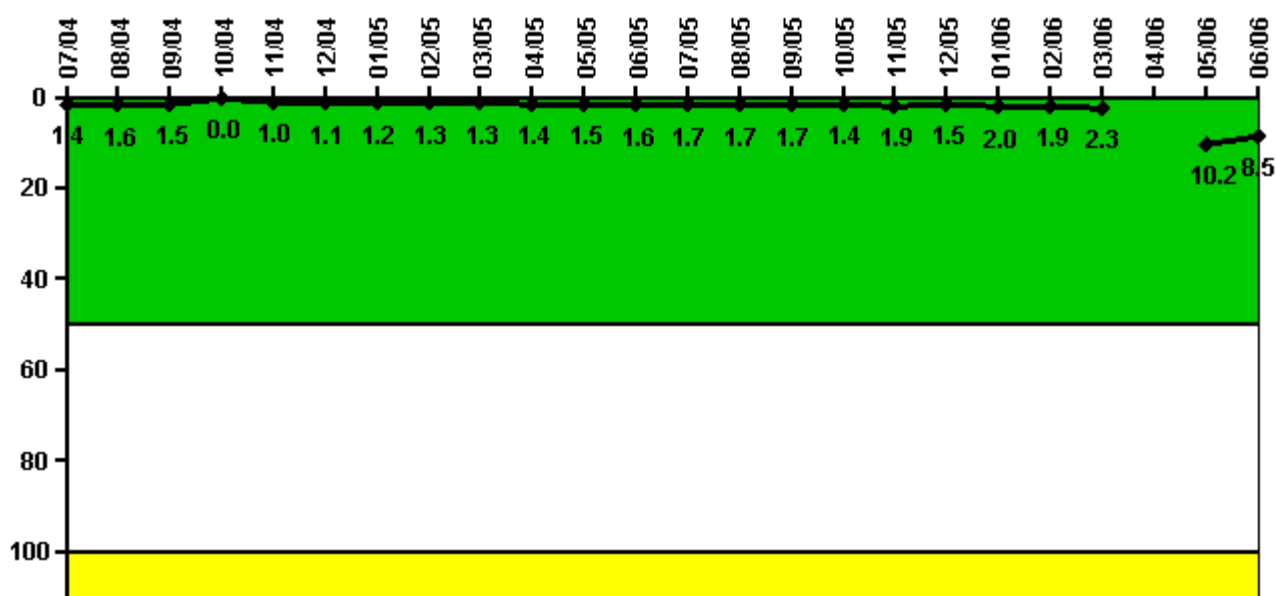
Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								5.00E-08
URI (ΔCDF)								8.50E-07
PLE								NO
Indicator value								9.00E-07

Licensee Comments:

2Q/06: Risk Cap Invoked.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

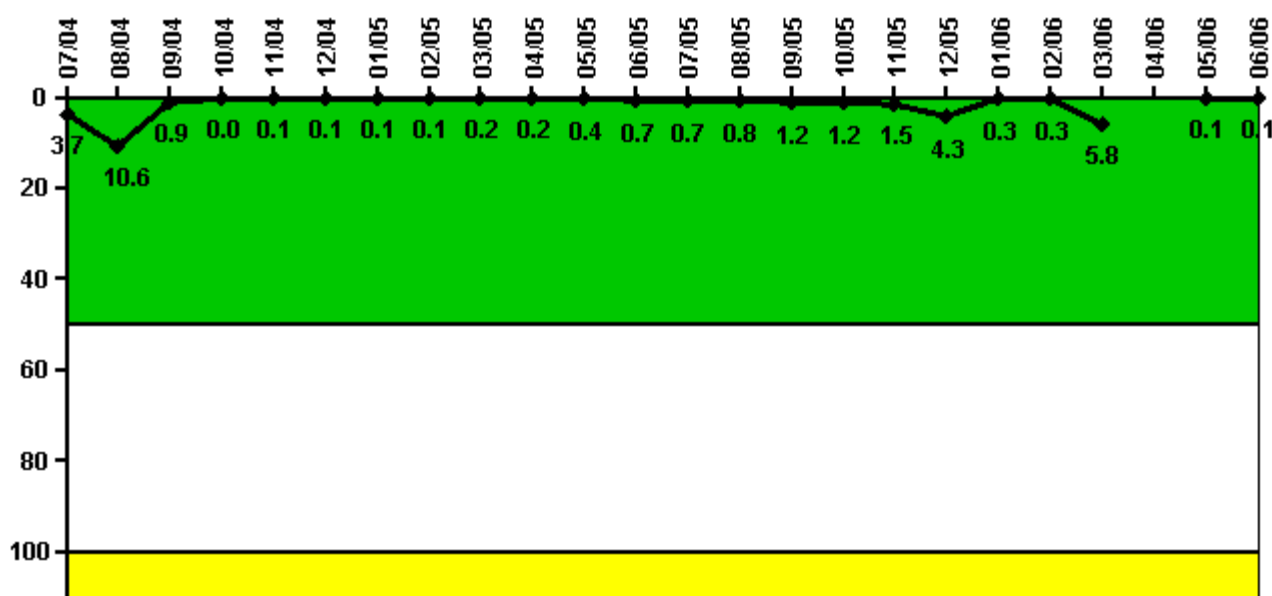
Reactor Coolant System Activity	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05
Maximum activity	0.014000	0.016000	0.015000	0.000003	0.010100	0.011100	0.012300	0.012600	0.013100	0.014300	0.015200	0.015900
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.4	1.6	1.5	0	1.0	1.1	1.2	1.3	1.3	1.4	1.5	1.6

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	0.017400	0.017300	0.017100	0.013800	0.018600	0.014500	0.020000	0.019200	0.022700	N/A	0.102000	0.084600
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.7	1.7	1.7	1.4	1.9	1.5	2.0	1.9	2.3	N/A	10.2	8.5

Licensee Comments:

6/06: The plant was shutdown for refueling for the essentially entire month

Reactor Coolant System Leakage



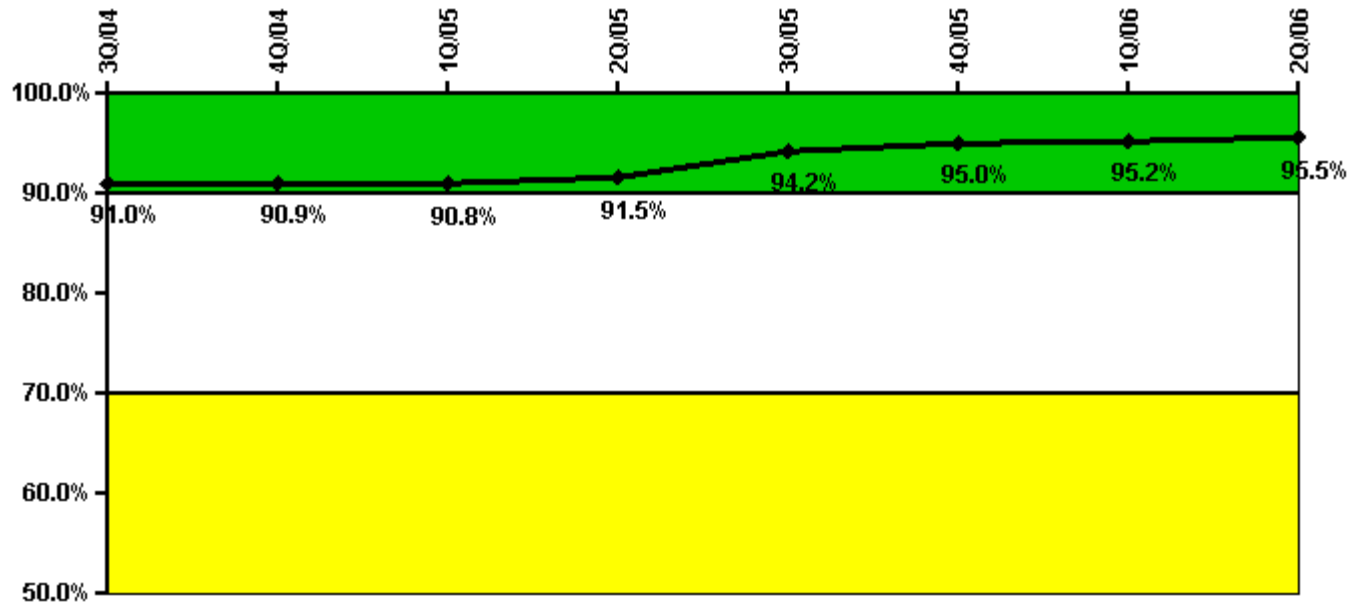
Thresholds: White > 50.0 Yellow > 100.0

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	0.370	1.057	0.085	0	0.005	0.011	0.011	0.008	0.020	0.016	0.040	0.066
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.7	10.6	0.9	0	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.7
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	0.066	0.079	0.120	0.119	0.148	0.429	0.026	0.033	0.581	N/A	0.013	0.013
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.8	1.2	1.2	1.5	4.3	0.3	0.3	5.8	N/A	0.1	0.1

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

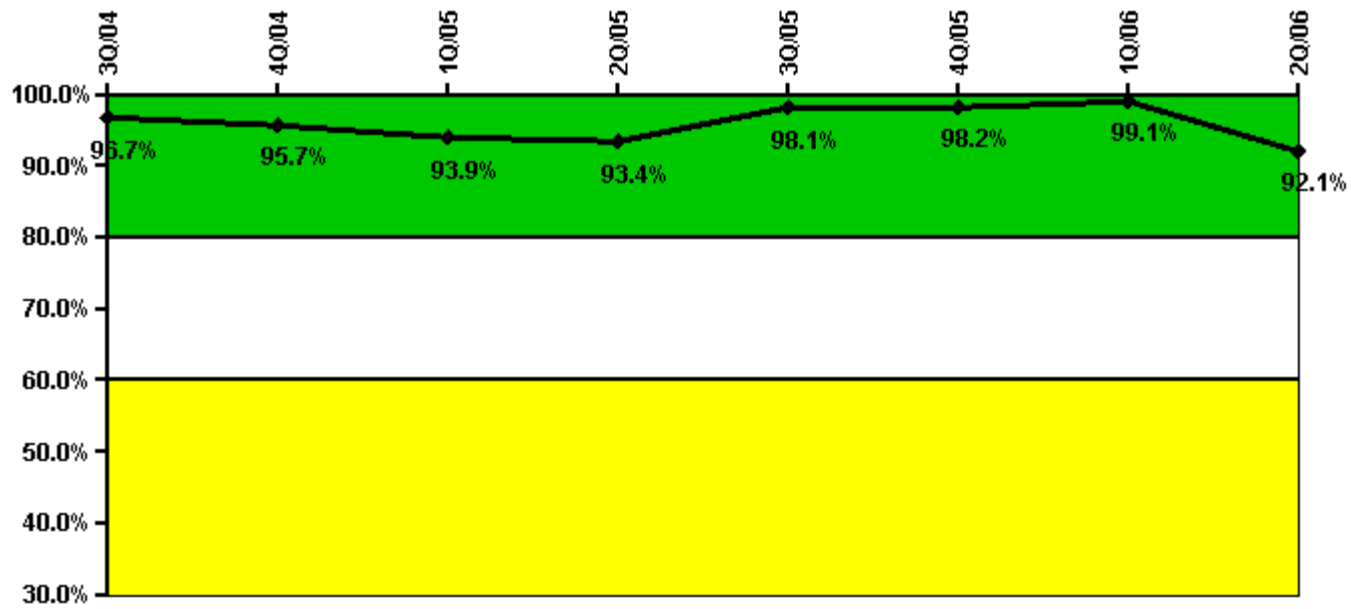
Notes

Drill/Exercise Performance	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful opportunities	24.0	11.0	85.0	75.0	82.0	12.0	96.0	36.0
Total opportunities	29.0	12.0	91.0	78.0	82.0	12.0	101.0	36.0
Indicator value	91.0%	90.9%	90.8%	91.5%	94.2%	95.0%	95.2%	95.5%

Licensee Comments:

1Q/06: The data entry in January 2006 was transposed and identified 38 successes out of 33 total opportunities. This has been corrected to be 33 successes out of 38 total opportunities.

ERO Drill Participation



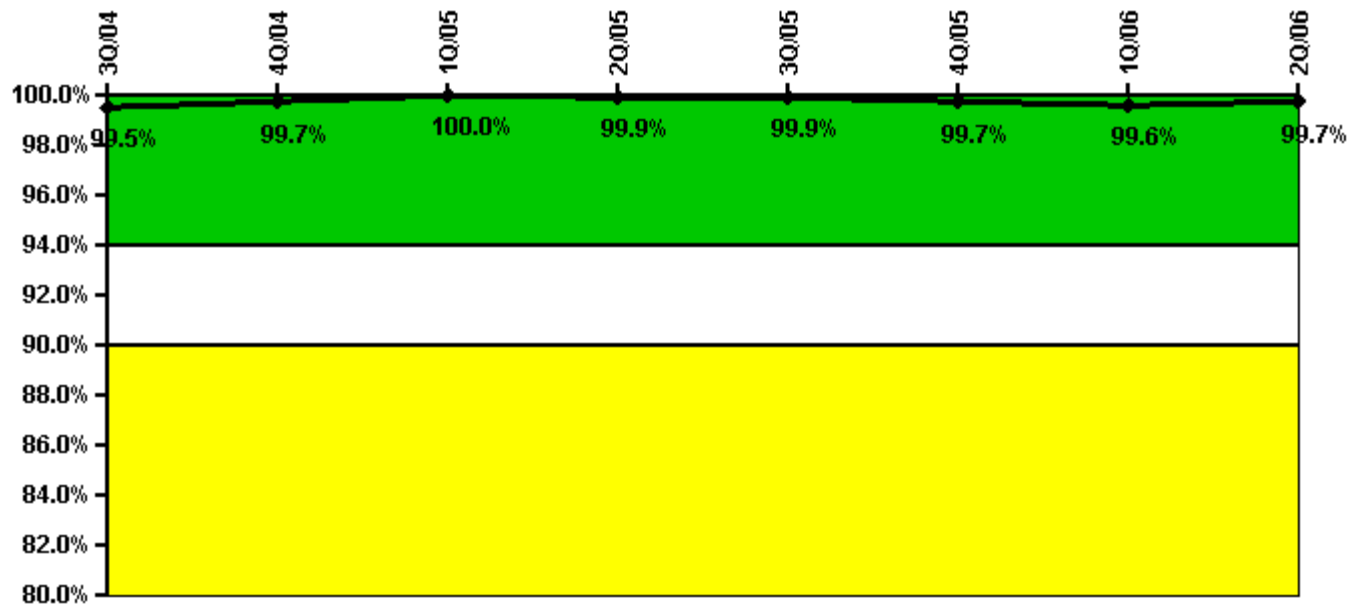
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Participating Key personnel	89.0	88.0	92.0	99.0	106.0	107.0	114.0	105.0
Total Key personnel	92.0	92.0	98.0	106.0	108.0	109.0	115.0	114.0
Indicator value	96.7%	95.7%	93.9%	93.4%	98.1%	98.2%	99.1%	92.1%

Licensee Comments: none

Alert & Notification System



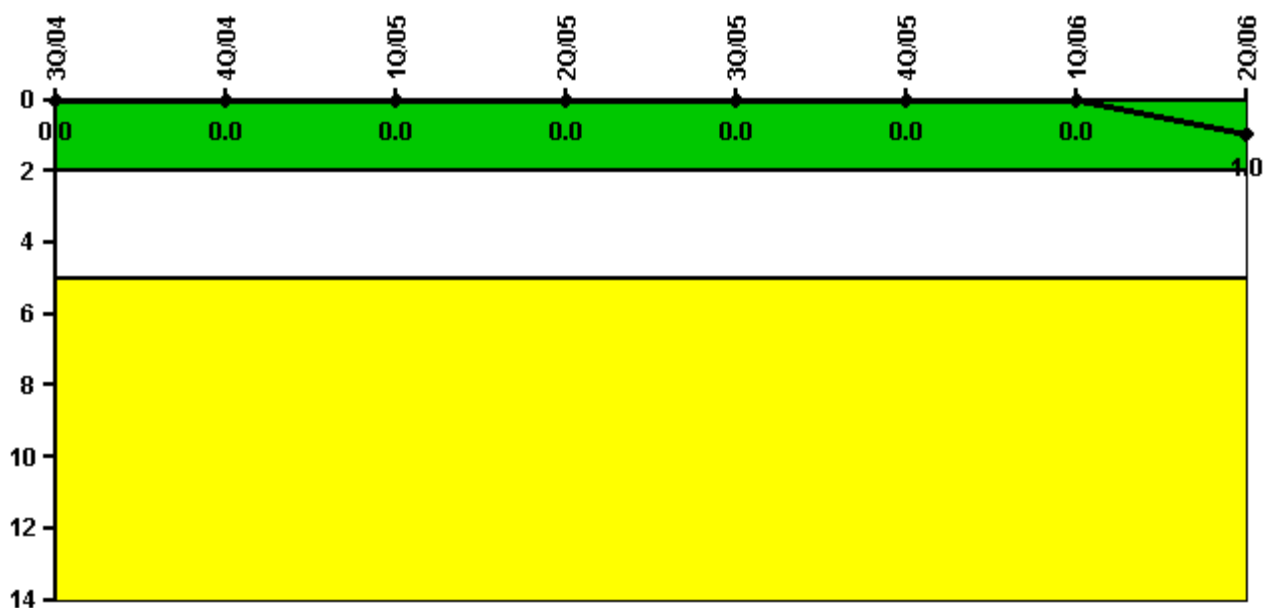
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful siren-tests	183	183	183	182	183	182	182	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.5%	99.7%	100.0%	99.9%	99.9%	99.7%	99.6%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
High radiation area occurrences	0	0	0	0	0	0	0	1
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	1

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

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

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

Last Modified: August 2, 2006

Palisades

3Q/2006 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



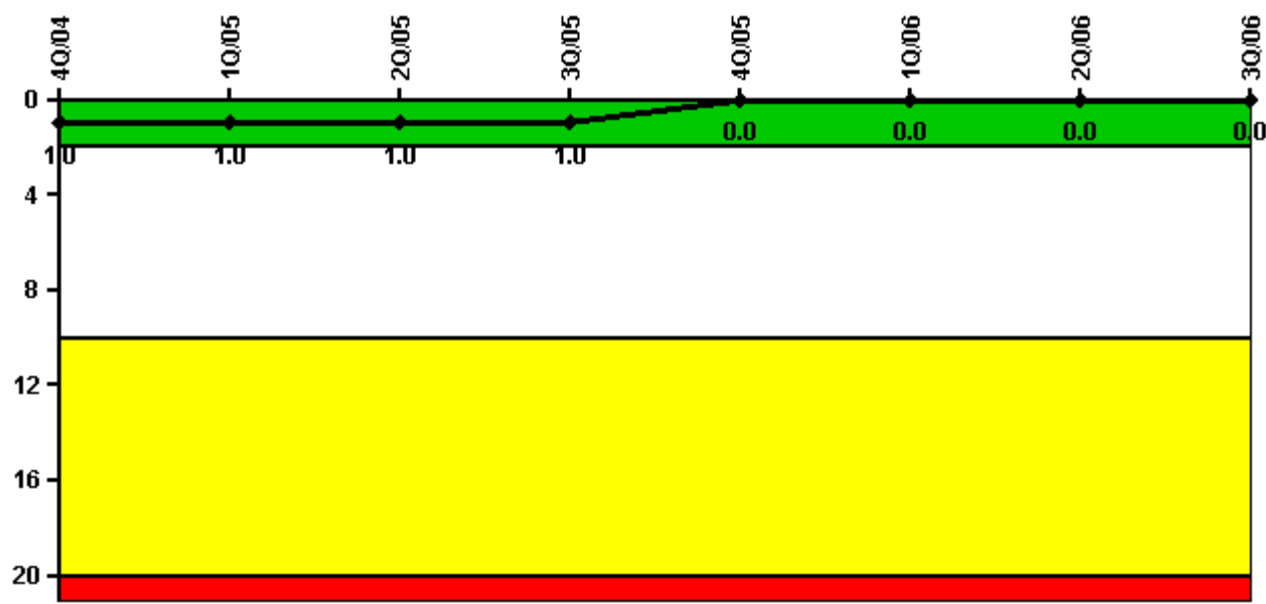
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	1.0	0	0	1.0	0
Critical hours	1104.6	2039.5	2183.0	2173.7	2185.2	2035.3	1155.0	2208.0
Indicator value	1.0	2.0	2.0	1.9	1.6	0.8	1.9	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



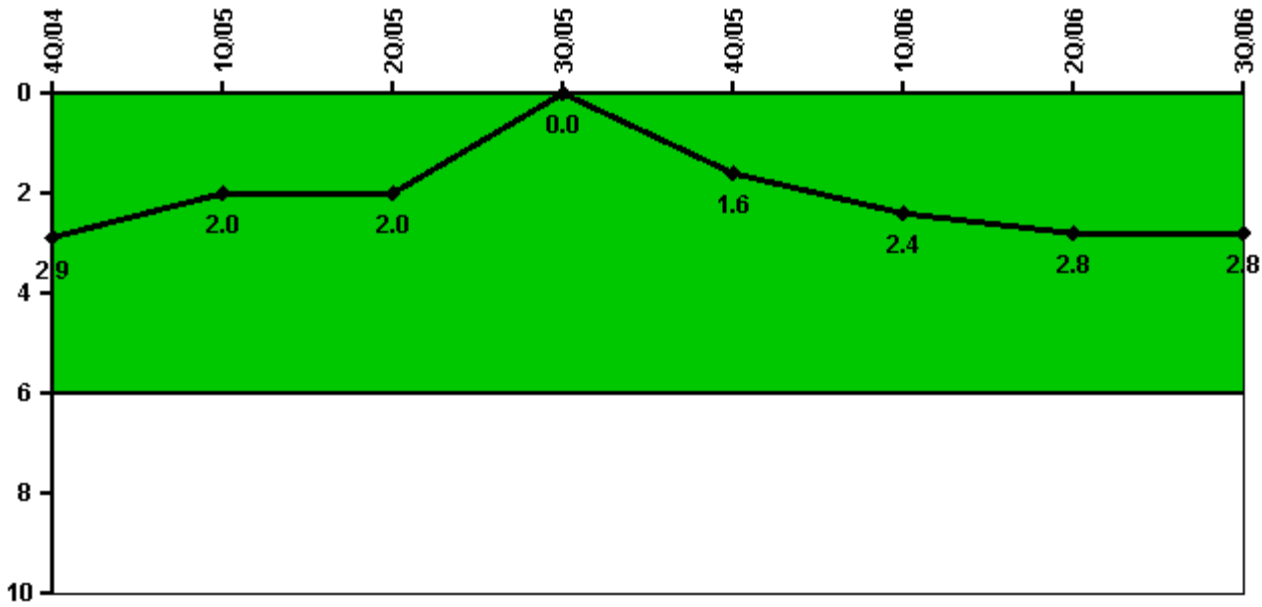
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/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	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



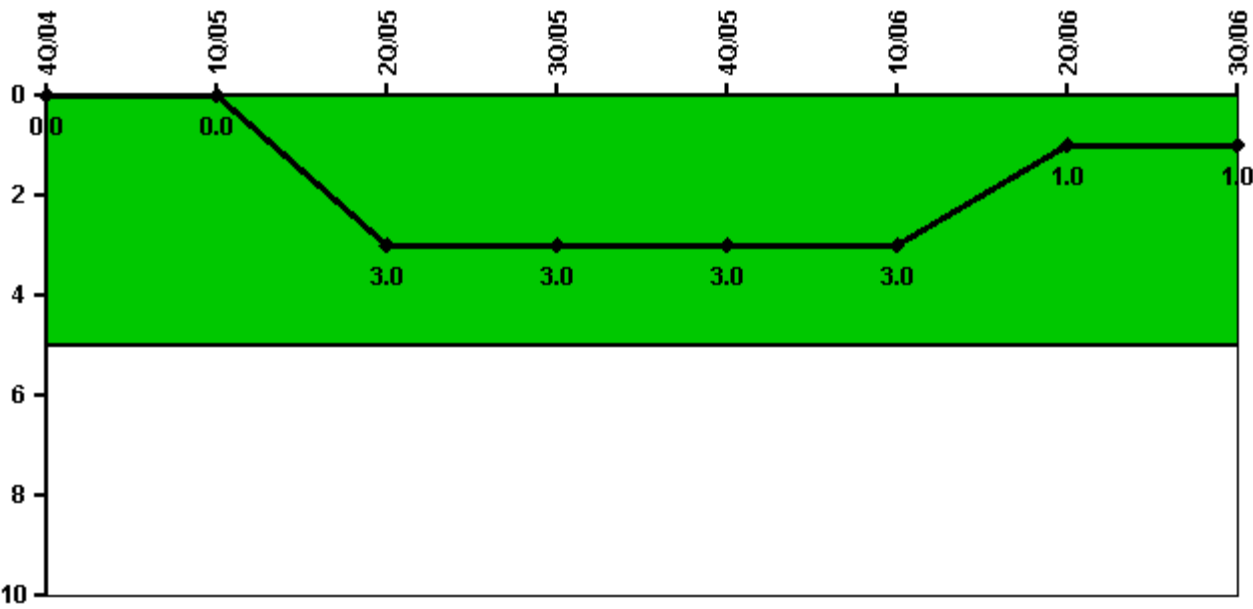
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned power changes	0	0	0	0	2.0	1.0	0	0
Critical hours	1104.6	2039.5	2183.0	2173.7	2185.2	2035.3	1155.0	2208.0
Indicator value	2.9	2.0	2.0	0	1.6	2.4	2.8	2.8

Licensee Comments: none

Safety System Functional Failures (PWR)



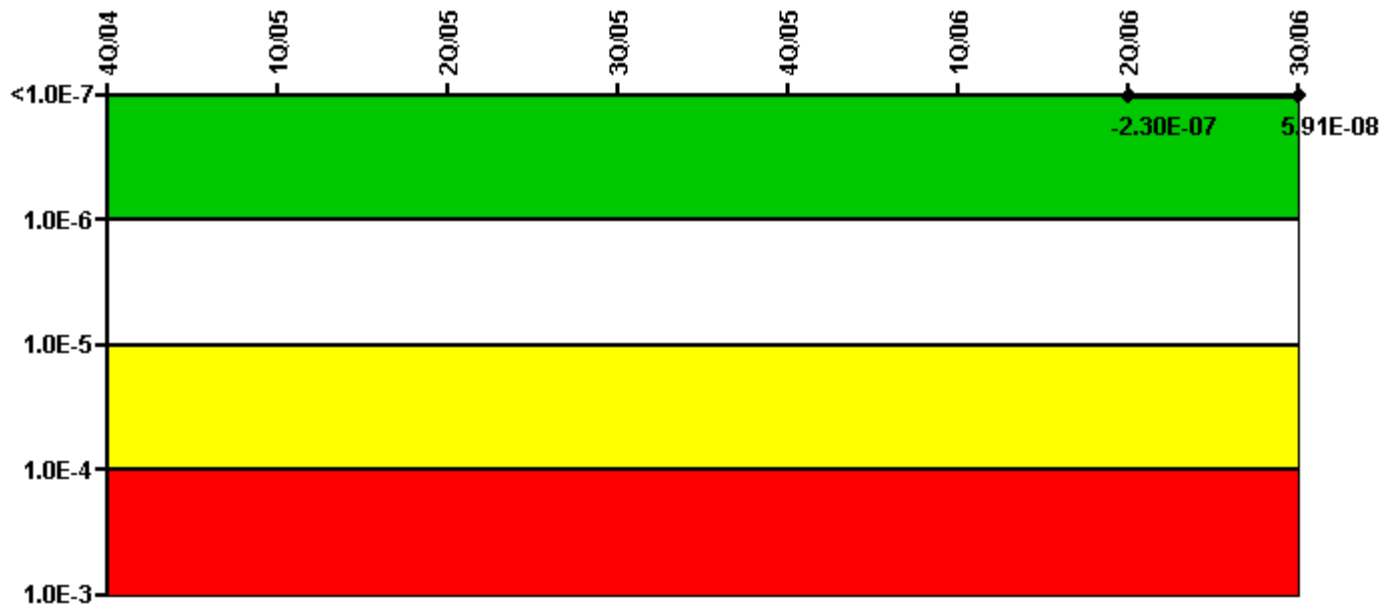
Thresholds: White > 5.0

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	3	0	0	0	1	0
Indicator value	0	0	3	3	3	3	1	1

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



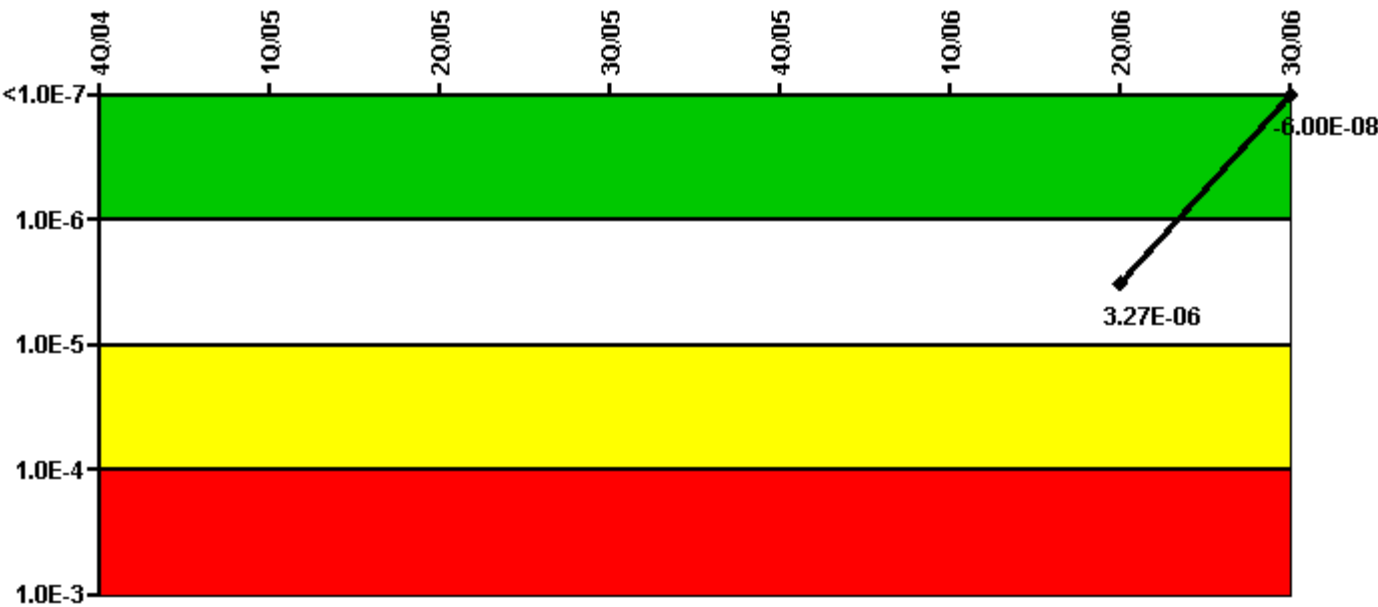
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (Δ CDF)							2.20E-07	4.10E-09
URI (Δ CDF)							-4.50E-07	5.50E-08
PLE							NO	NO
Indicator value							-2.30E-07	5.91E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



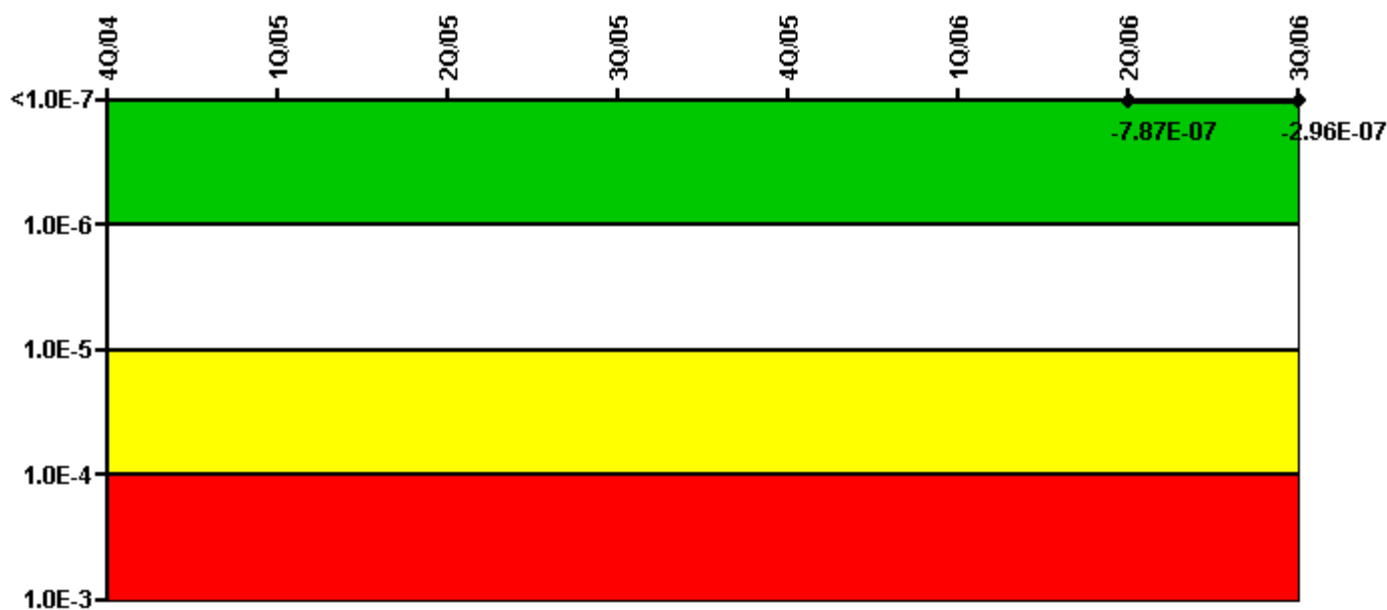
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (Δ CDF)							4.70E-07	2.10E-07
URI (Δ CDF)							2.80E-06	-2.70E-07
PLE							NO	NO
Indicator value							3.27E-06	-6.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



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

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							-4.70E-08	-1.60E-08
URI (ΔCDF)							-7.40E-07	-2.80E-07
PLE							NO	NO
Indicator value							-7.87E-07	-2.96E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



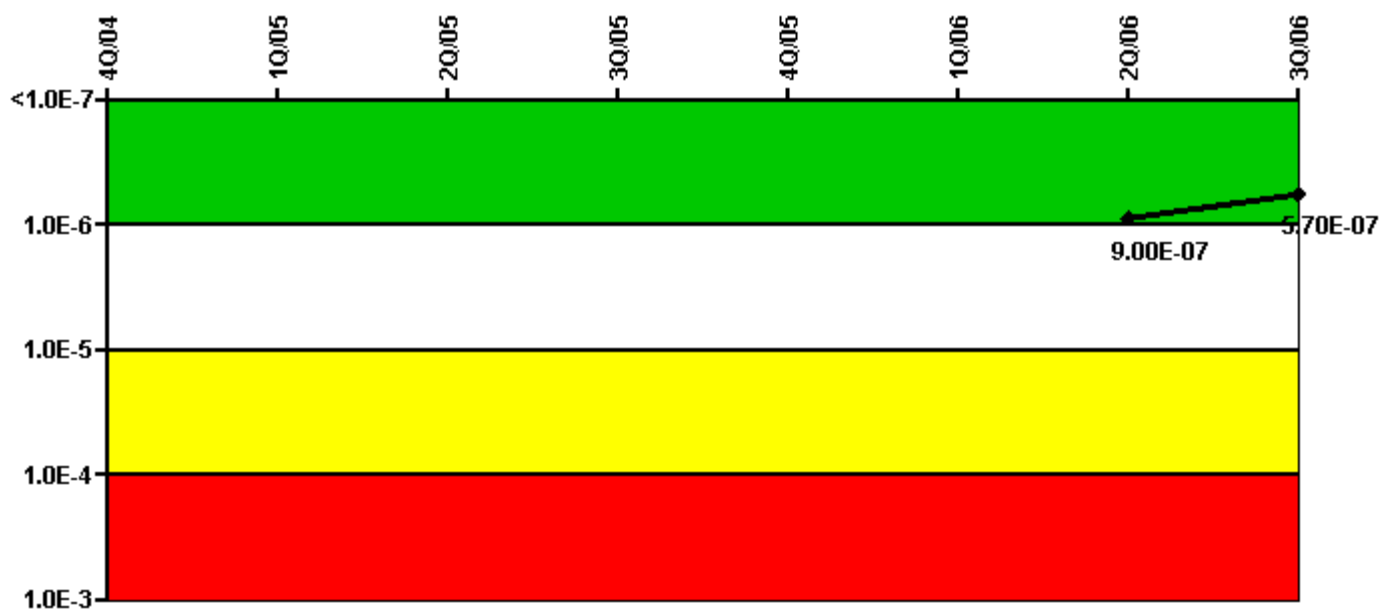
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							1.20E-08	1.10E-08
URI (ΔCDF)							-5.30E-08	-4.00E-08
PLE							NO	NO
Indicator value							-4.10E-08	-2.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



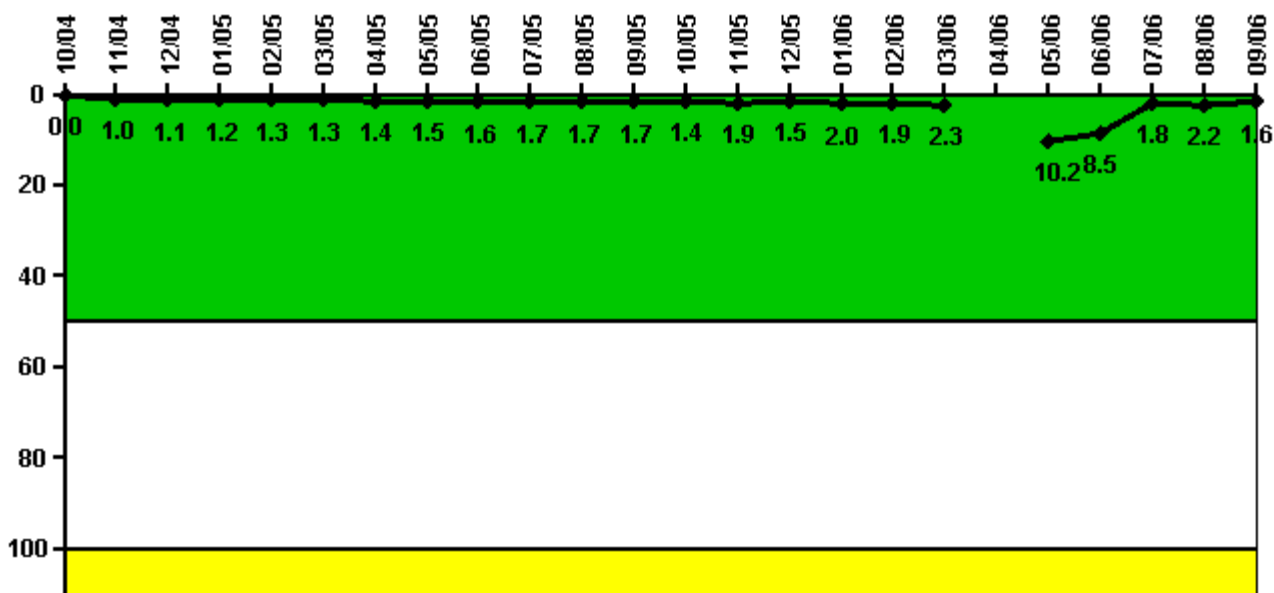
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							5.00E-08	1.00E-07
URI (ΔCDF)							8.50E-07	4.70E-07
PLE							NO	NO
Indicator value							9.00E-07	5.70E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

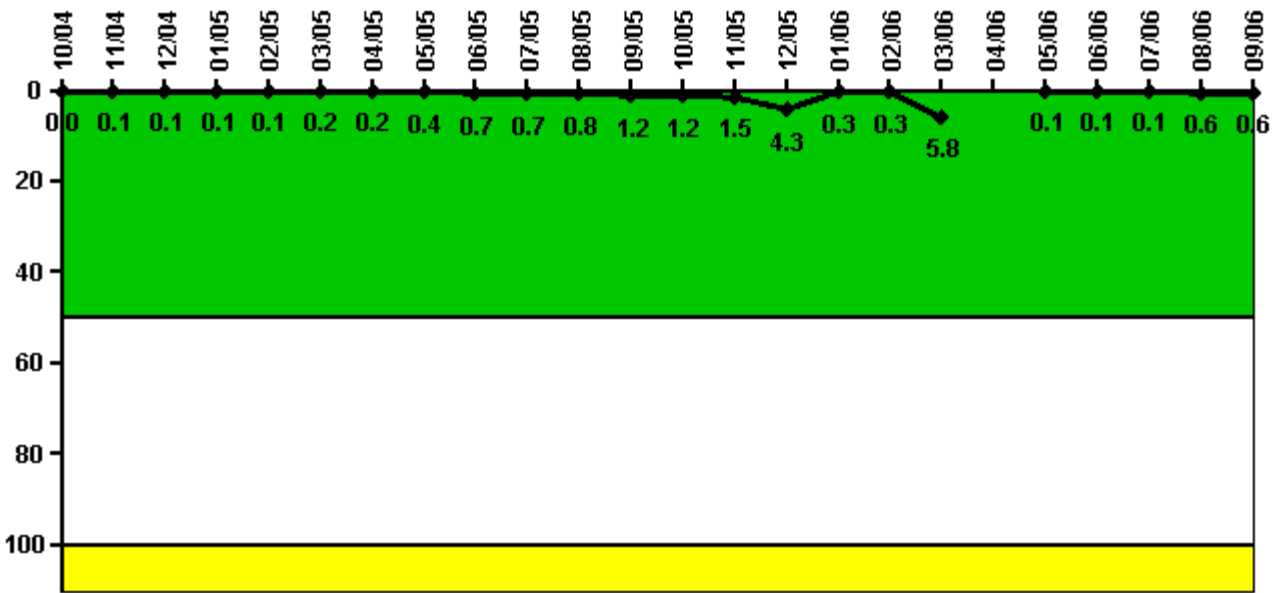
Notes

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	0.000003	0.010100	0.011100	0.012300	0.012600	0.013100	0.014300	0.015200	0.015900	0.017400	0.017300	0.017100
Technical specification limit	1.0	1.0	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	1.1	1.2	1.3	1.3	1.4	1.5	1.6	1.7	1.7	1.7

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	0.013800	0.018600	0.014500	0.020000	0.019200	0.022700	N/A	0.102000	0.084600	0.018300	0.022200	0.015700
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.4	1.9	1.5	2.0	1.9	2.3	N/A	10.2	8.5	1.8	2.2	1.6

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

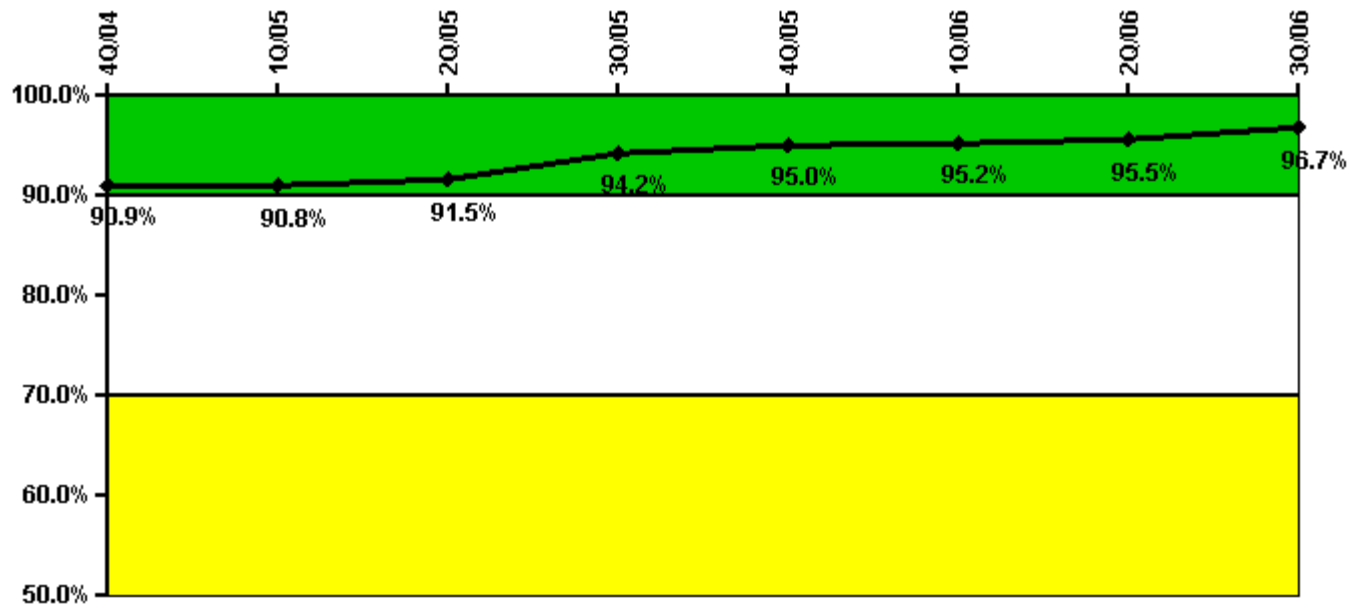
Notes

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	0.005	0.011	0.011	0.008	0.020	0.016	0.040	0.066	0.066	0.079	0.120
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0.1	0.1	0.1	0.1	0.2	0.2	0.4	0.7	0.7	0.8	1.2

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	0.119	0.148	0.429	0.026	0.033	0.581	N/A	0.013	0.013	0.007	0.059	0.059
Technical specification limit	10.0	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	1.5	4.3	0.3	0.3	5.8	N/A	0.1	0.1	0.1	0.6	0.6

Licensee Comments: none

Drill/Exercise Performance



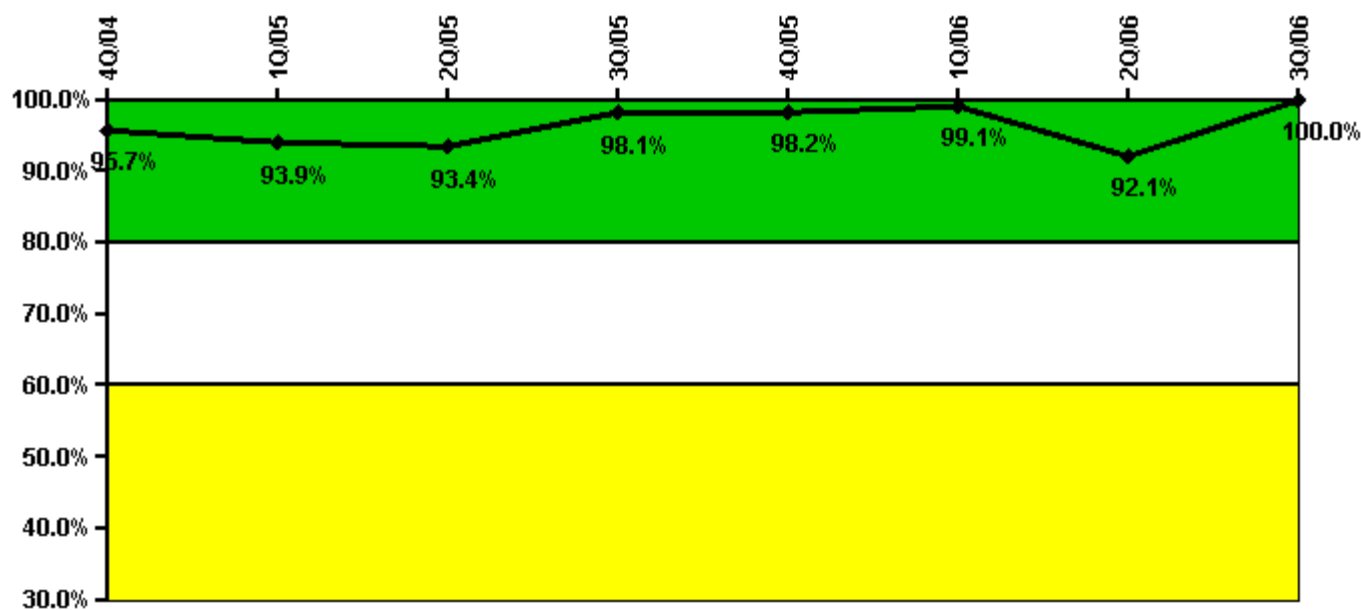
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful opportunities	11.0	85.0	75.0	82.0	12.0	96.0	36.0	40.0
Total opportunities	12.0	91.0	78.0	82.0	12.0	101.0	36.0	40.0
Indicator value	90.9%	90.8%	91.5%	94.2%	95.0%	95.2%	95.5%	96.7%

Licensee Comments: none

ERO Drill Participation



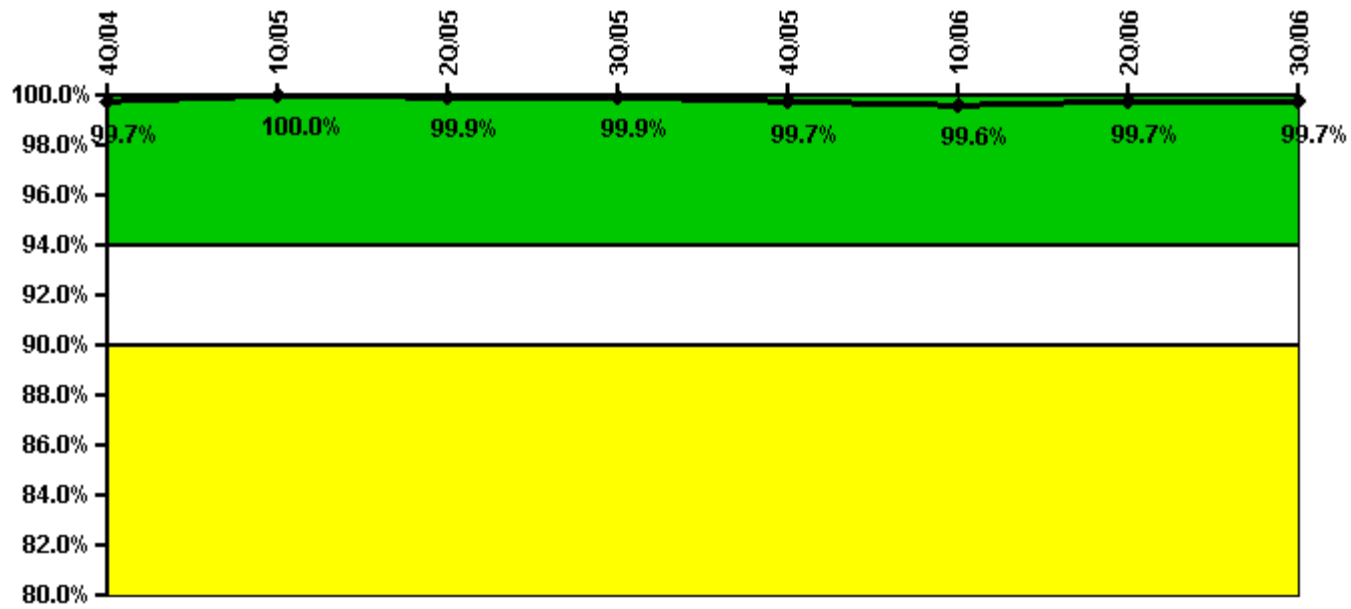
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Participating Key personnel	88.0	92.0	99.0	106.0	107.0	114.0	105.0	114.0
Total Key personnel	92.0	98.0	106.0	108.0	109.0	115.0	114.0	114.0
Indicator value	95.7%	93.9%	93.4%	98.1%	98.2%	99.1%	92.1%	100.0%

Licensee Comments: none

Alert & Notification System



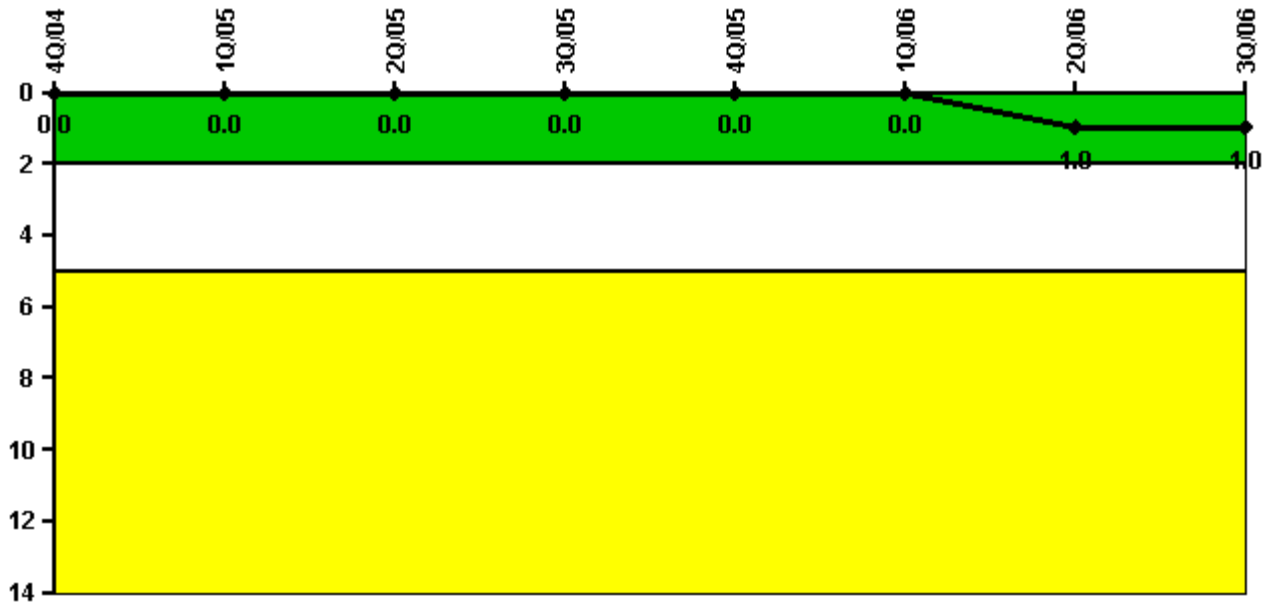
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful siren-tests	183	183	182	183	182	182	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.7%	100.0%	99.9%	99.9%	99.7%	99.6%	99.7%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



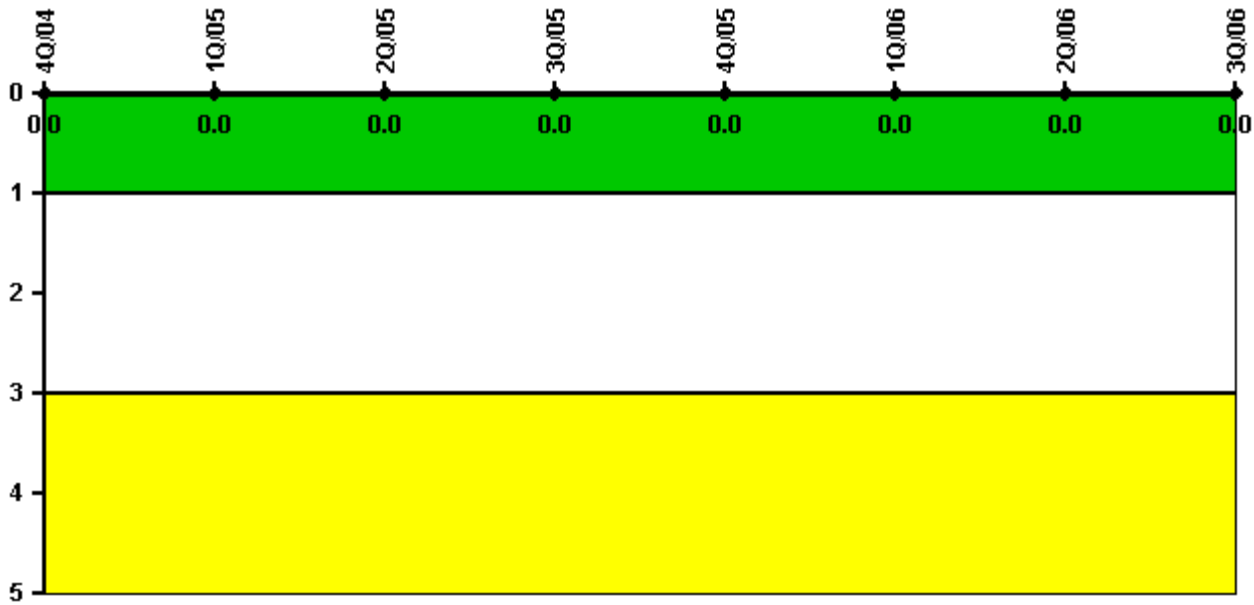
Thresholds: White > 2.0 Yellow > 5.0

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

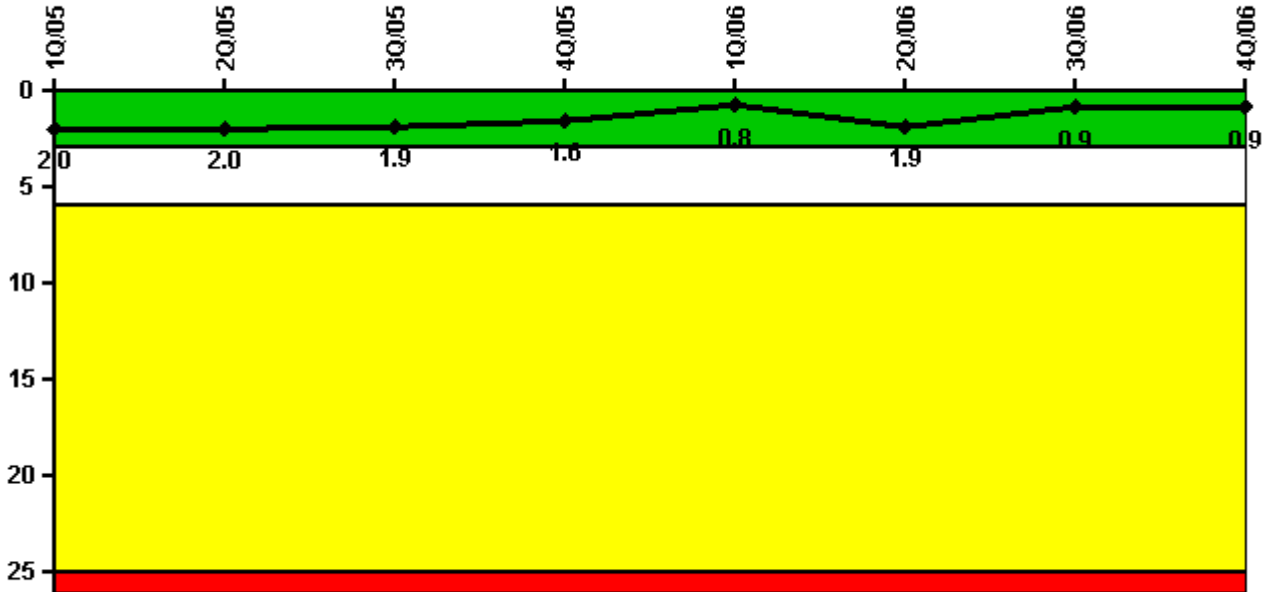
[Physical Protection](#) information not publicly available.

Palisades

4Q/2006 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



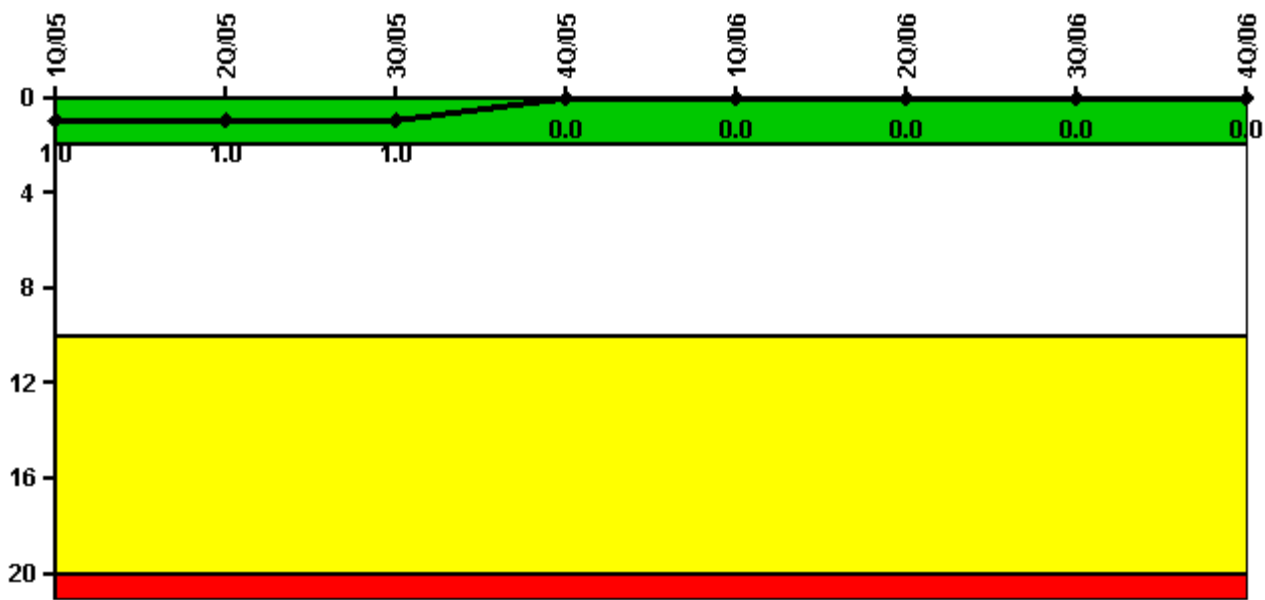
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	1.0	0	0	1.0	0	0
Critical hours	2039.5	2183.0	2173.7	2185.2	2035.3	1155.0	2208.0	2163.5
Indicator value	2.0	2.0	1.9	1.6	0.8	1.9	0.9	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



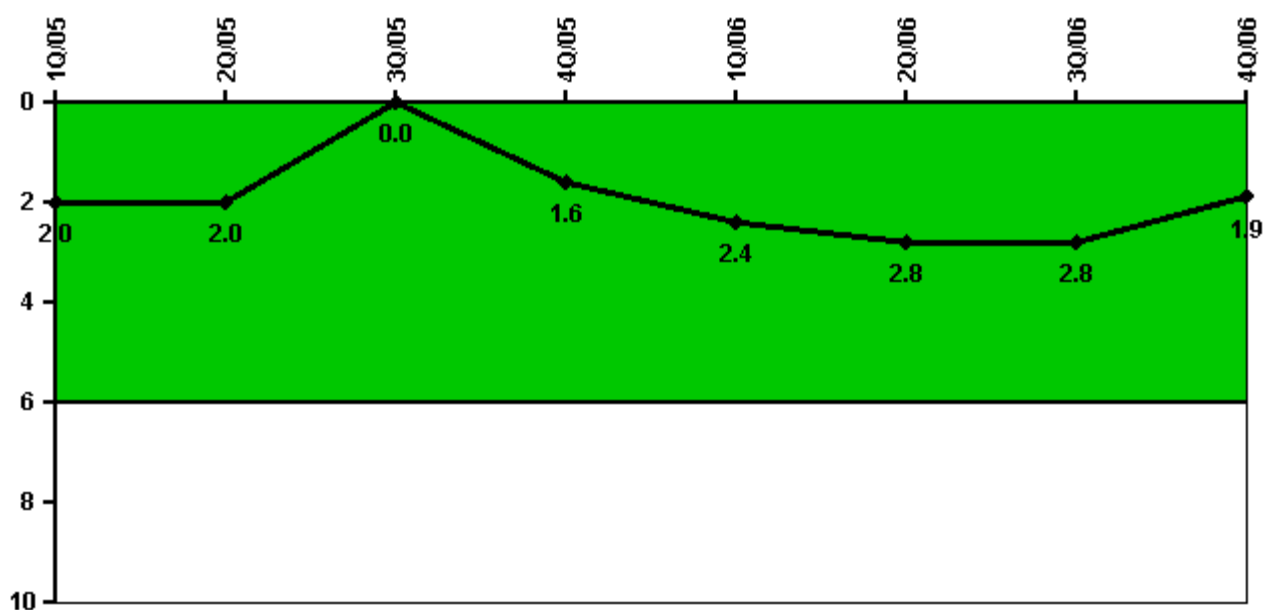
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/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	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

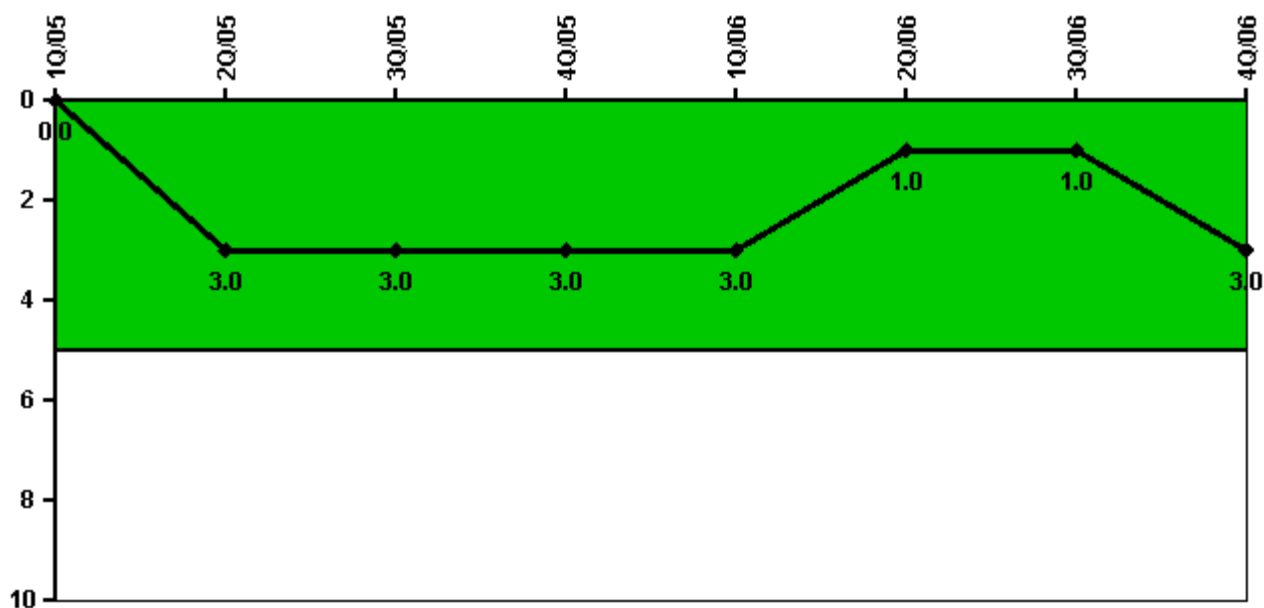
Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned power changes	0	0	0	2.0	1.0	0	0	1.0
Critical hours	2039.5	2183.0	2173.7	2185.2	2035.3	1155.0	2208.0	2163.5
Indicator value	2.0	2.0	0	1.6	2.4	2.8	2.8	1.9

Licensee Comments:

4Q/06: One unplanned power change occurred due to a containment air cooler service water leak, resulting in a plant shutdown.

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

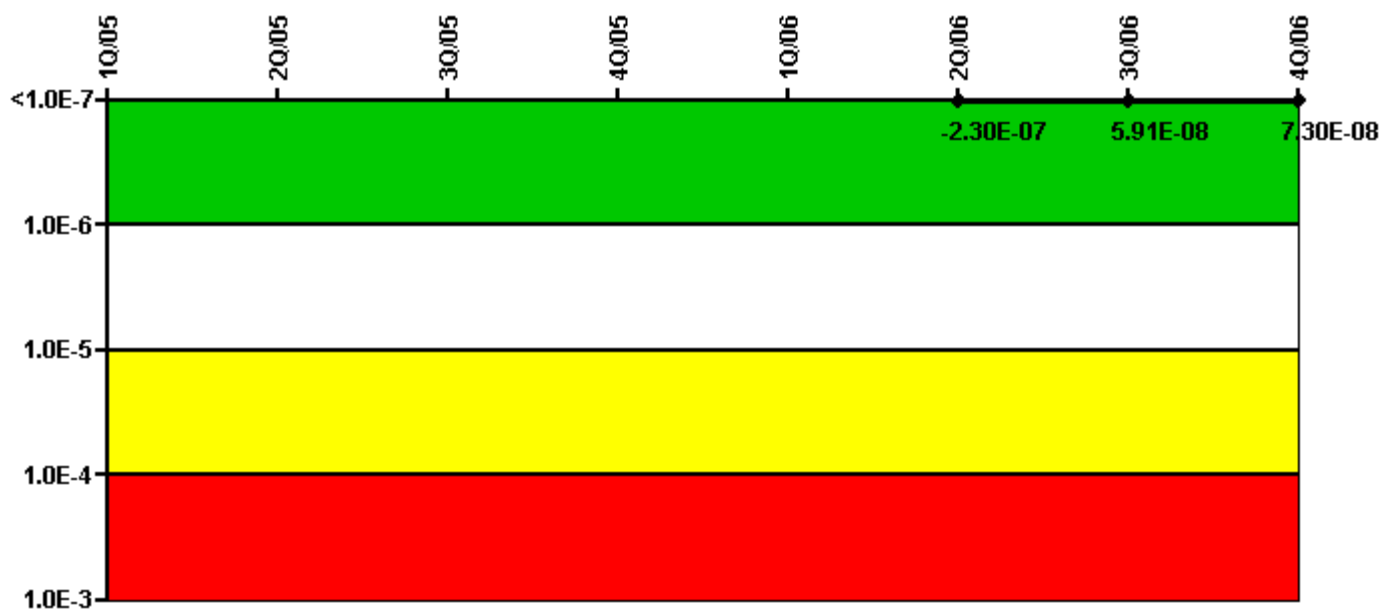
Notes

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	3	0	0	0	1	0	2
Indicator value	0	3	3	3	3	1	1	3

Licensee Comments:

4Q/06: Two failures were reported during the month of December 2006. The failures were reported in Palisades LER 2006-007, Auxiliary Feedwater Control Switches Not Positioned for Automatic System Actuation; and LER 2006-006, Inoperable Containment Due to Containment Air cooler Through-Wall Flaw.

Mitigating Systems Performance Index, Emergency AC Power System



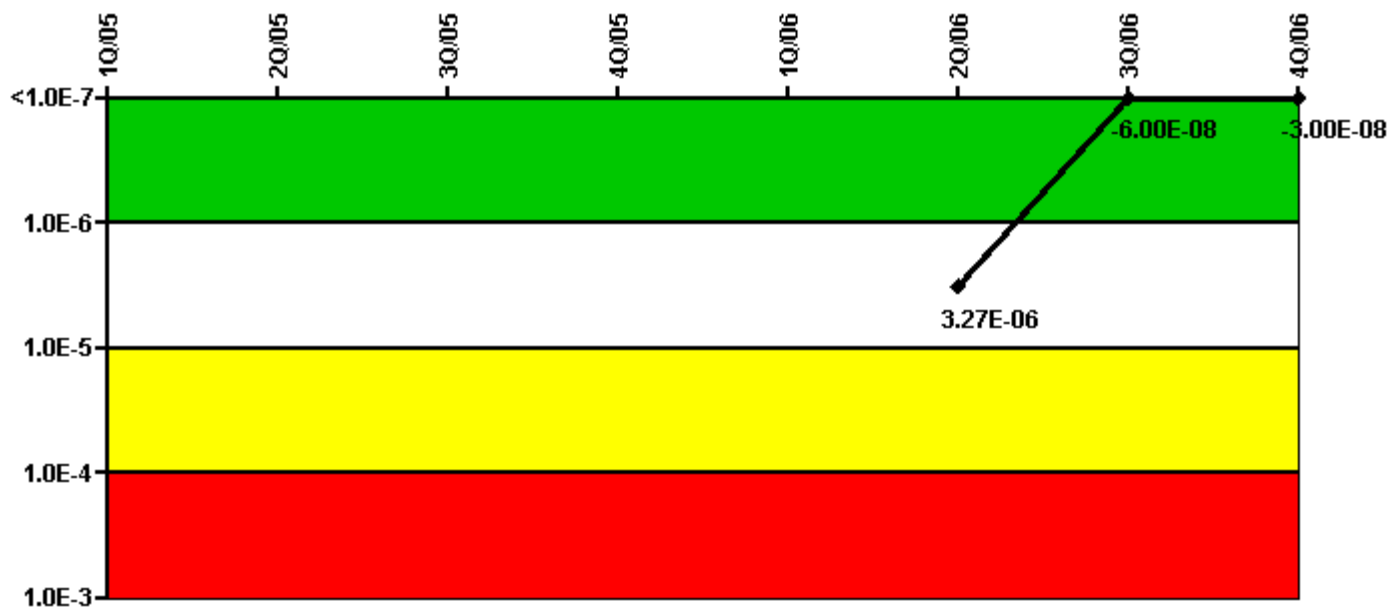
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)						2.20E-07	4.10E-09	1.80E-08
URI (Δ CDF)						-4.50E-07	5.50E-08	5.50E-08
PLE						NO	NO	NO
Indicator value						-2.30E-07	5.91E-08	7.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



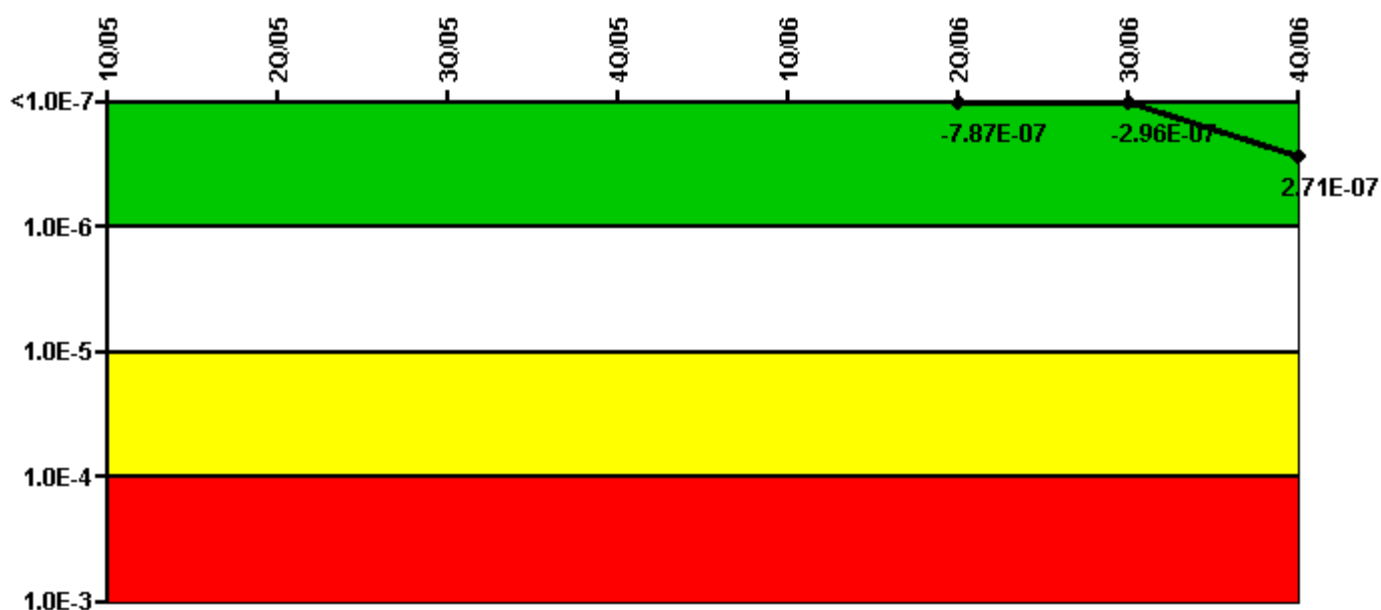
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (Δ CDF)						4.70E-07	2.10E-07	2.40E-07
URI (Δ CDF)						2.80E-06	-2.70E-07	-2.70E-07
PLE						NO	NO	NO
Indicator value						3.27E-06	-6.00E-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

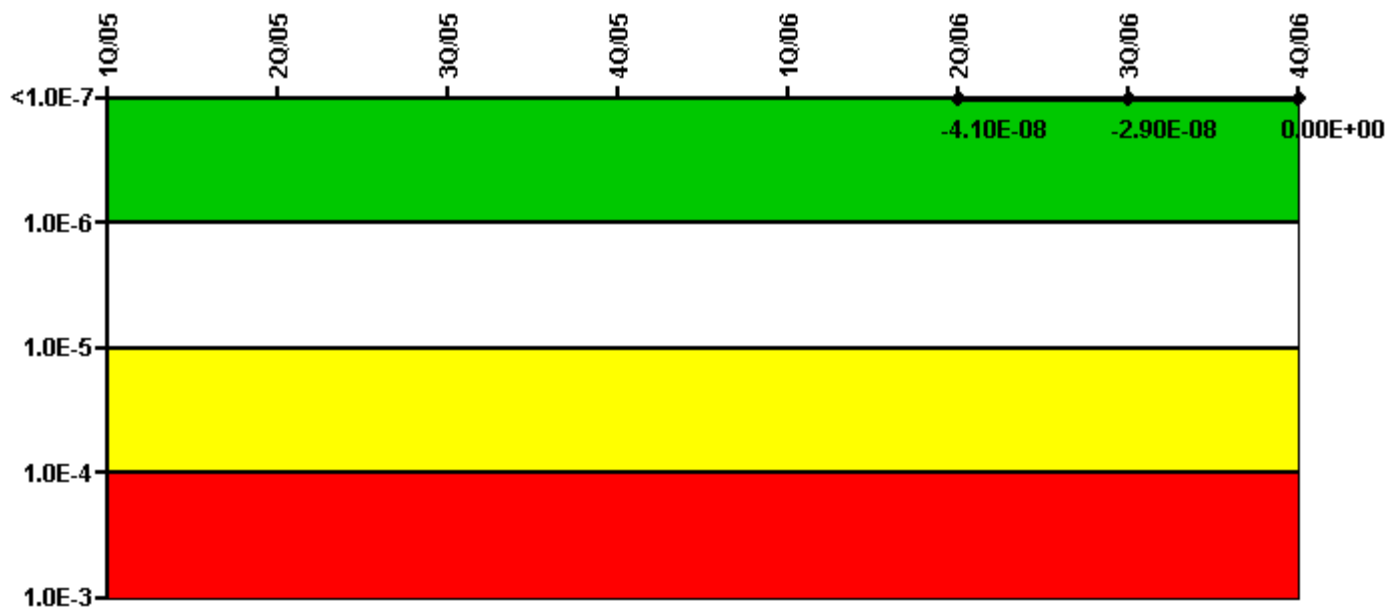
Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						-4.70E-08	-1.60E-08	-9.10E-09
URI (ΔCDF)						-7.40E-07	-2.80E-07	2.80E-07
PLE						NO	NO	NO
Indicator value						-7.87E-07	-2.96E-07	2.71E-07

Licensee Comments:

4Q/06: 5 failures were reported in November related to switch/controller mis-positionings. These were associated with AFW Pump handswitches (3 failures) and AFW Flow Control Valve controller position (2 failures). The failures were reported in Palisades LER 2006-007, Auxiliary Feedwater Control Switches Not Position for Automatic System Actuation

Mitigating Systems Performance Index, Residual Heat Removal System



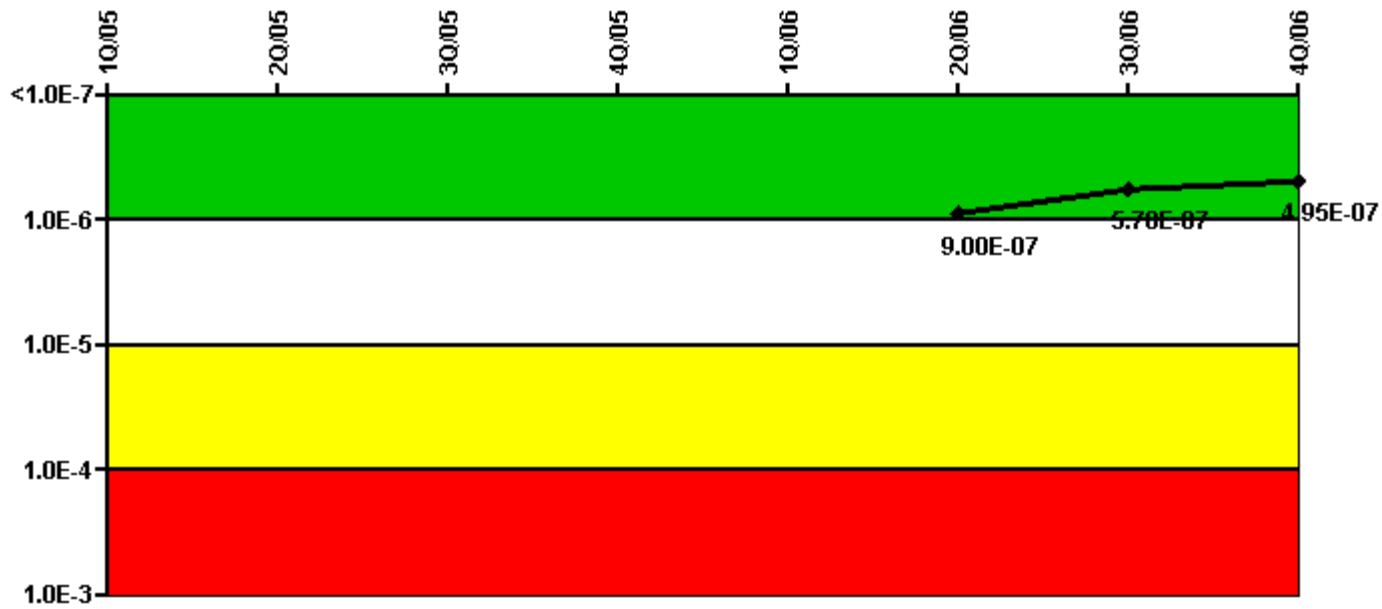
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)						1.20E-08	1.10E-08	4.00E-08
URI (Δ CDF)						-5.30E-08	-4.00E-08	-4.00E-08
PLE						NO	NO	NO
Indicator value						-4.10E-08	-2.90E-08	0.00E+00

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



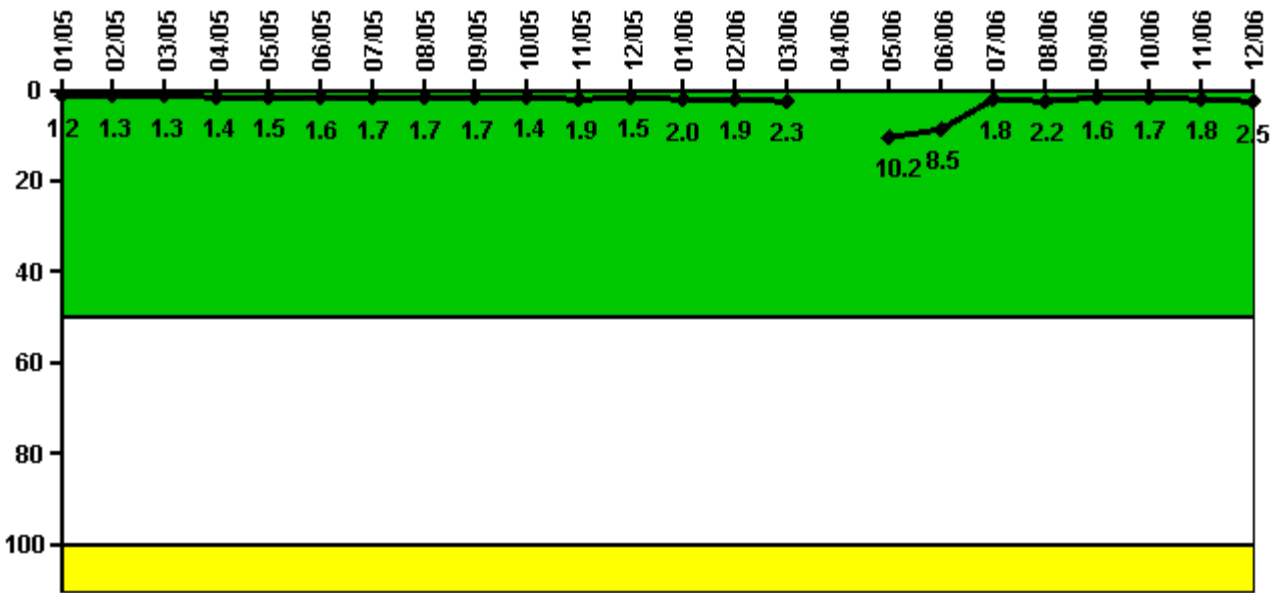
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						5.00E-08	1.00E-07	2.50E-08
URI (ΔCDF)						8.50E-07	4.70E-07	4.70E-07
PLE						NO	NO	NO
Indicator value						9.00E-07	5.70E-07	4.95E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

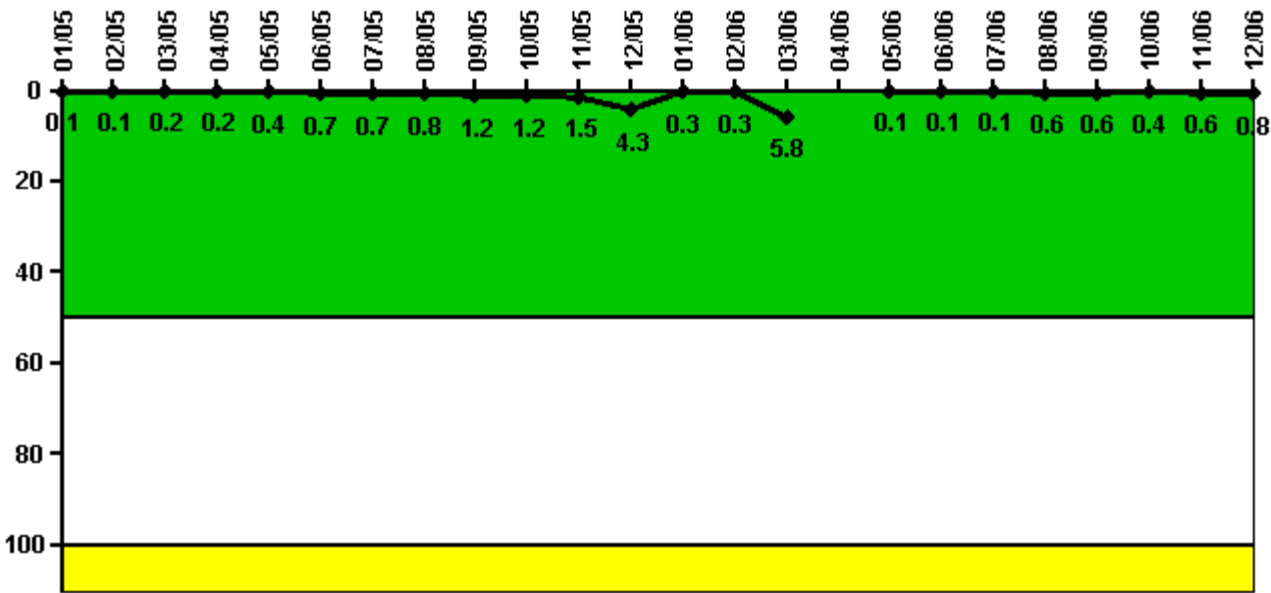
Notes

Reactor Coolant System Activity	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05
Maximum activity	0.012300	0.012600	0.013100	0.014300	0.015200	0.015900	0.017400	0.017300	0.017100	0.013800	0.018600	0.014500
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.2	1.3	1.3	1.4	1.5	1.6	1.7	1.7	1.7	1.4	1.9	1.5

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	0.020000	0.019200	0.022700	N/A	0.102000	0.084600	0.018300	0.022200	0.015700	0.017400	0.017800	0.024900
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	2.0	1.9	2.3	N/A	10.2	8.5	1.8	2.2	1.6	1.7	1.8	2.5

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

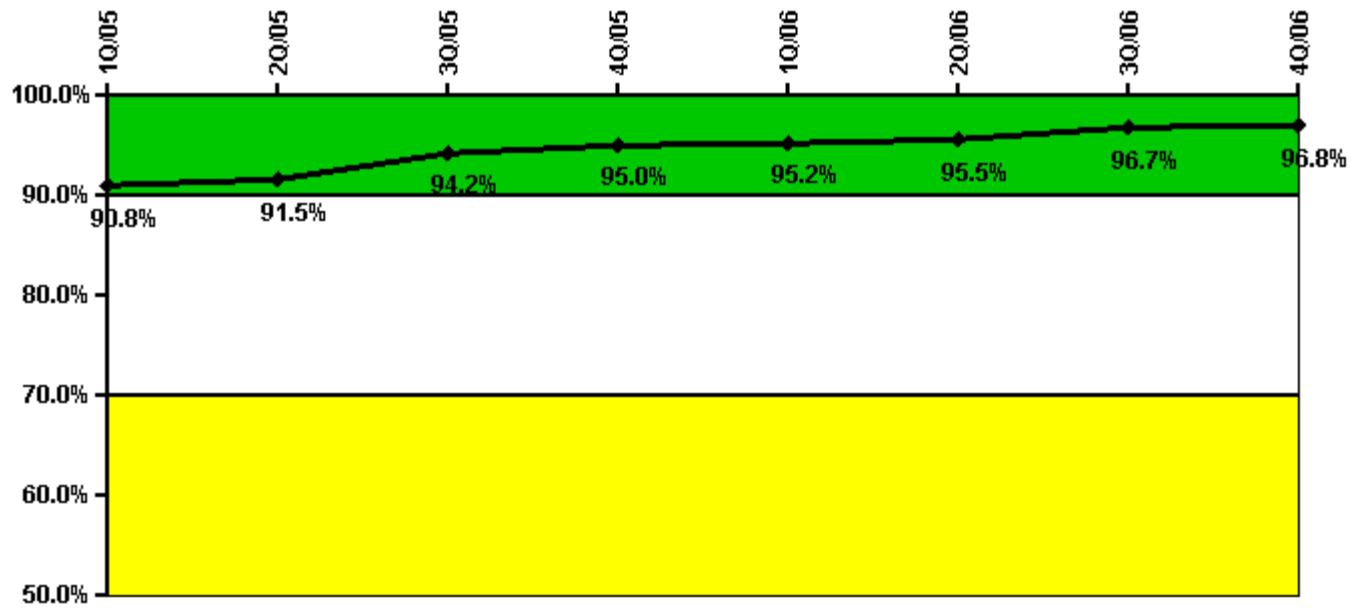
Notes

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	0.011	0.008	0.020	0.016	0.040	0.066	0.066	0.079	0.120	0.119	0.148	0.429
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	0.1	0.2	0.2	0.4	0.7	0.7	0.8	1.2	1.2	1.5	4.3

Reactor Coolant System Leakage	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum leakage	0.026	0.033	0.581	N/A	0.013	0.013	0.007	0.059	0.059	0.040	0.055	0.079
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.3	0.3	5.8	N/A	0.1	0.1	0.1	0.6	0.6	0.4	0.6	0.8

Licensee Comments: none

Drill/Exercise Performance



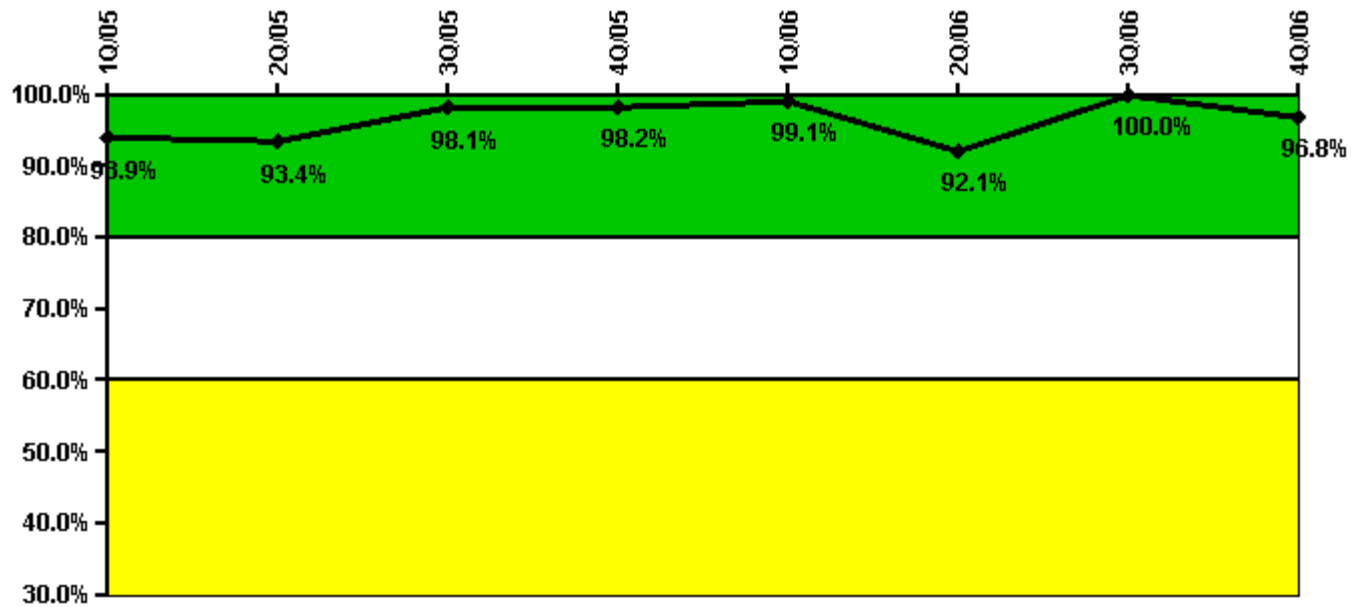
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful opportunities	85.0	75.0	82.0	12.0	96.0	36.0	40.0	25.0
Total opportunities	91.0	78.0	82.0	12.0	101.0	36.0	40.0	26.0
Indicator value	90.8%	91.5%	94.2%	95.0%	95.2%	95.5%	96.7%	96.8%

Licensee Comments: none

ERO Drill Participation



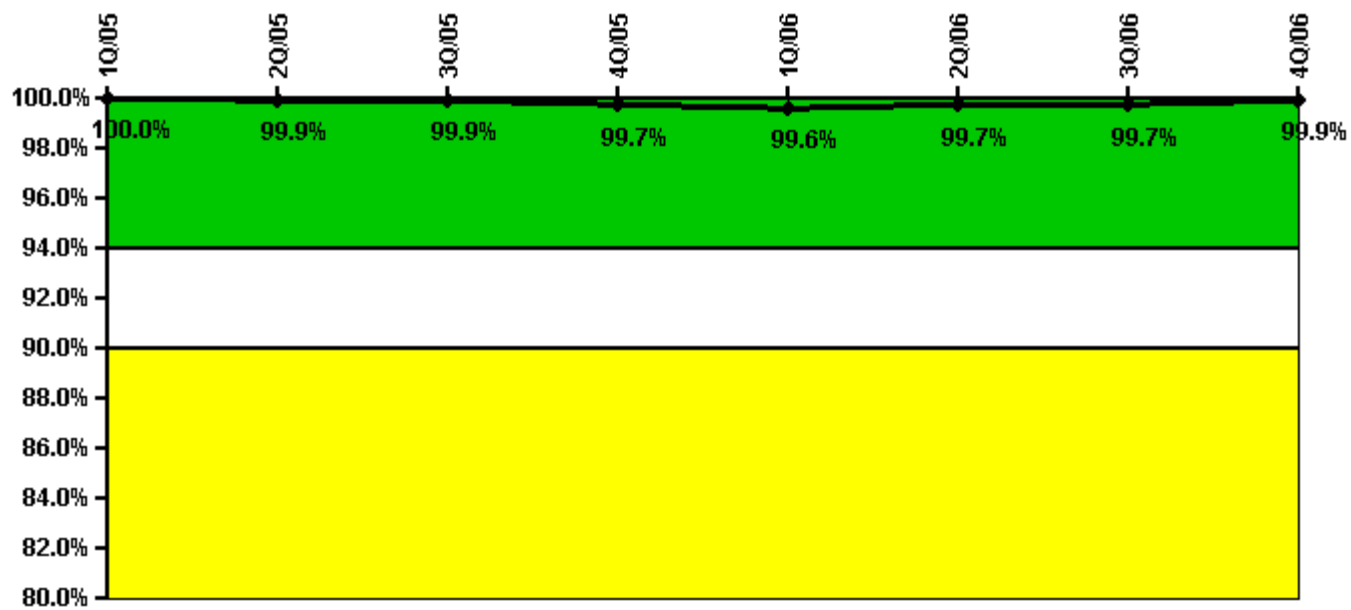
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Participating Key personnel	92.0	99.0	106.0	107.0	114.0	105.0	114.0	121.0
Total Key personnel	98.0	106.0	108.0	109.0	115.0	114.0	114.0	125.0
Indicator value	93.9%	93.4%	98.1%	98.2%	99.1%	92.1%	100.0%	96.8%

Licensee Comments: none

Alert & Notification System



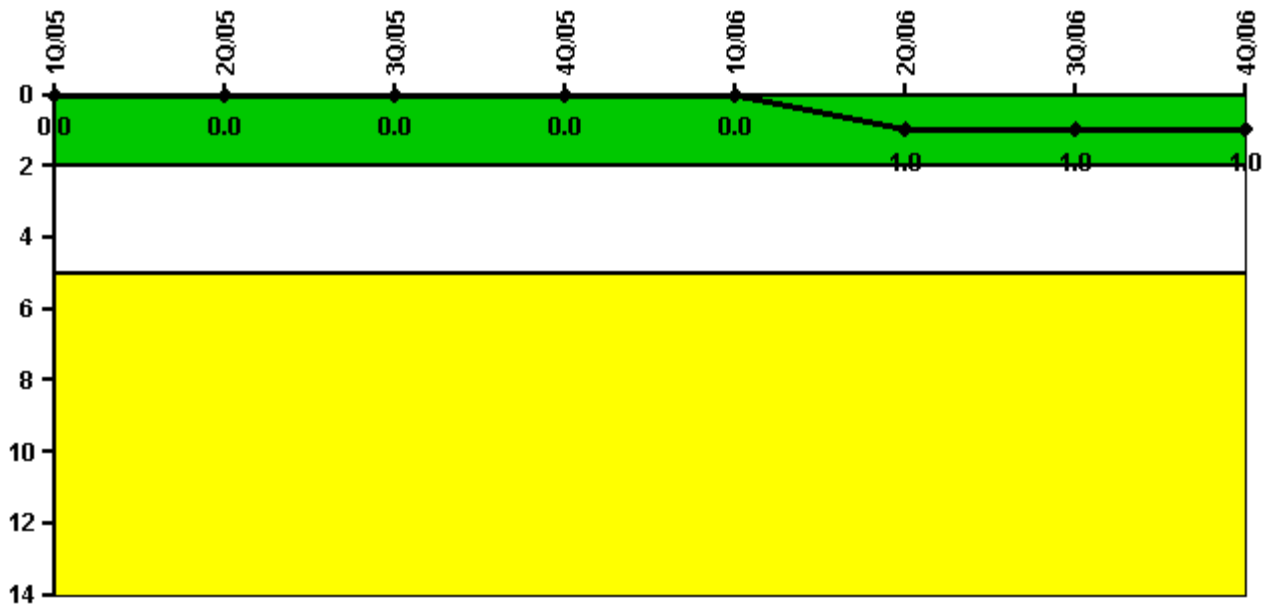
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful siren-tests	183	182	183	182	182	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	100.0%	99.9%	99.9%	99.7%	99.6%	99.7%	99.7%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



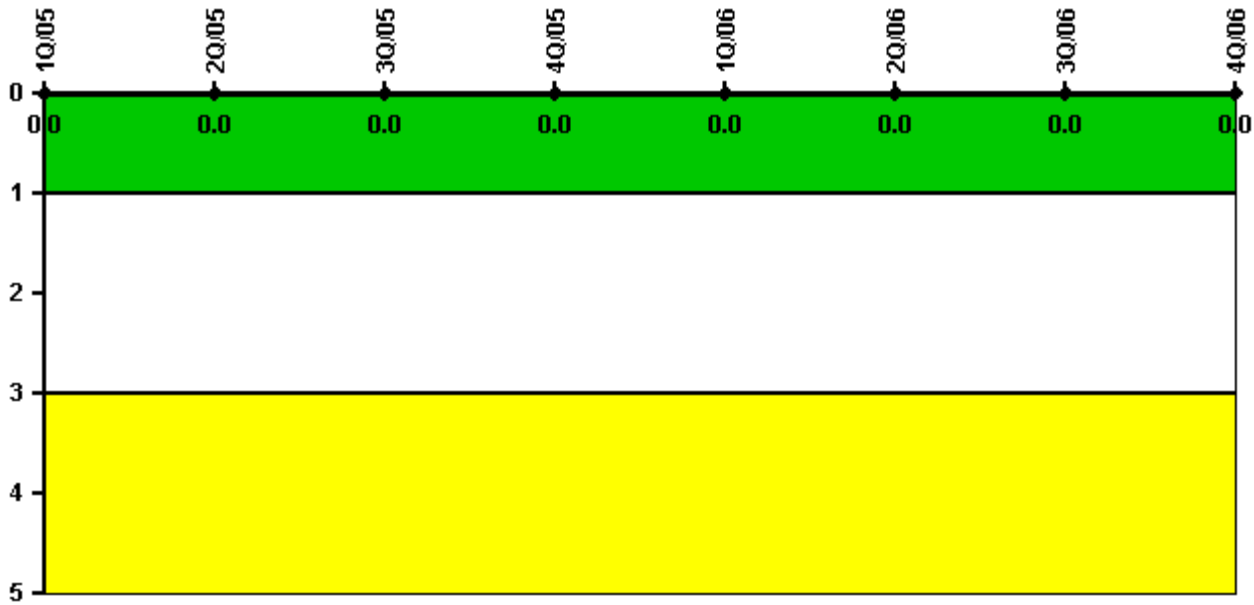
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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	1	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	1	1	1

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

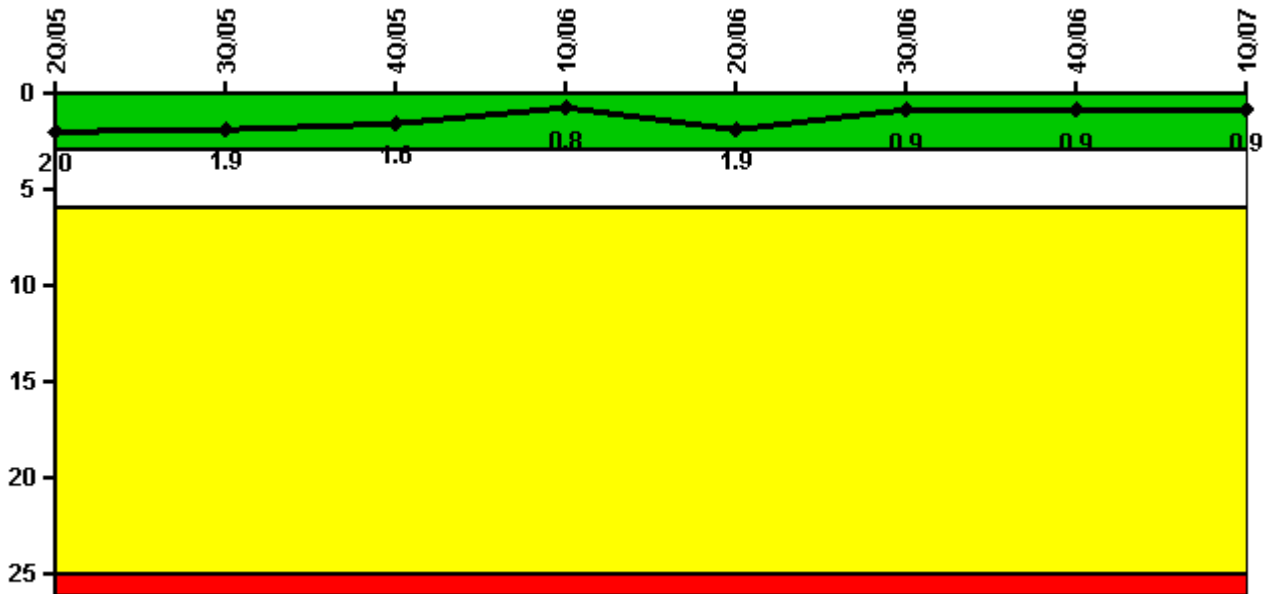
[Physical Protection](#) information not publicly available.

Palisades

1Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



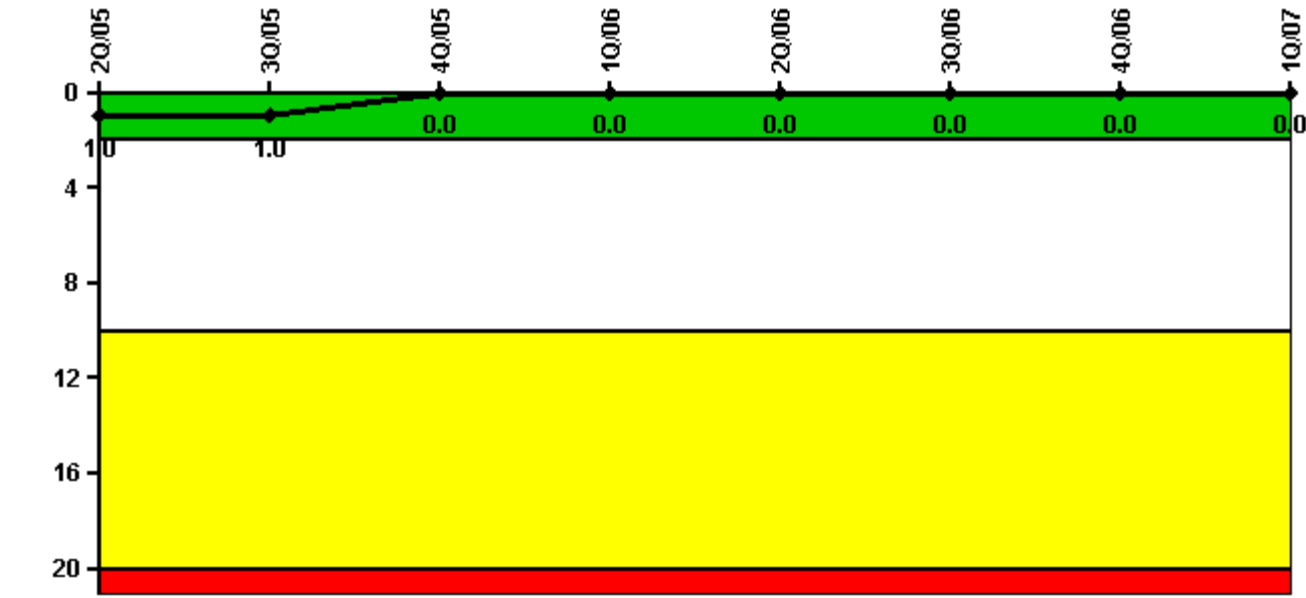
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	1.0	0	0	0
Critical hours	2183.0	2173.7	2185.2	2035.3	1155.0	2208.0	2163.5	1987.0
Indicator value	2.0	1.9	1.6	0.8	1.9	0.9	0.9	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



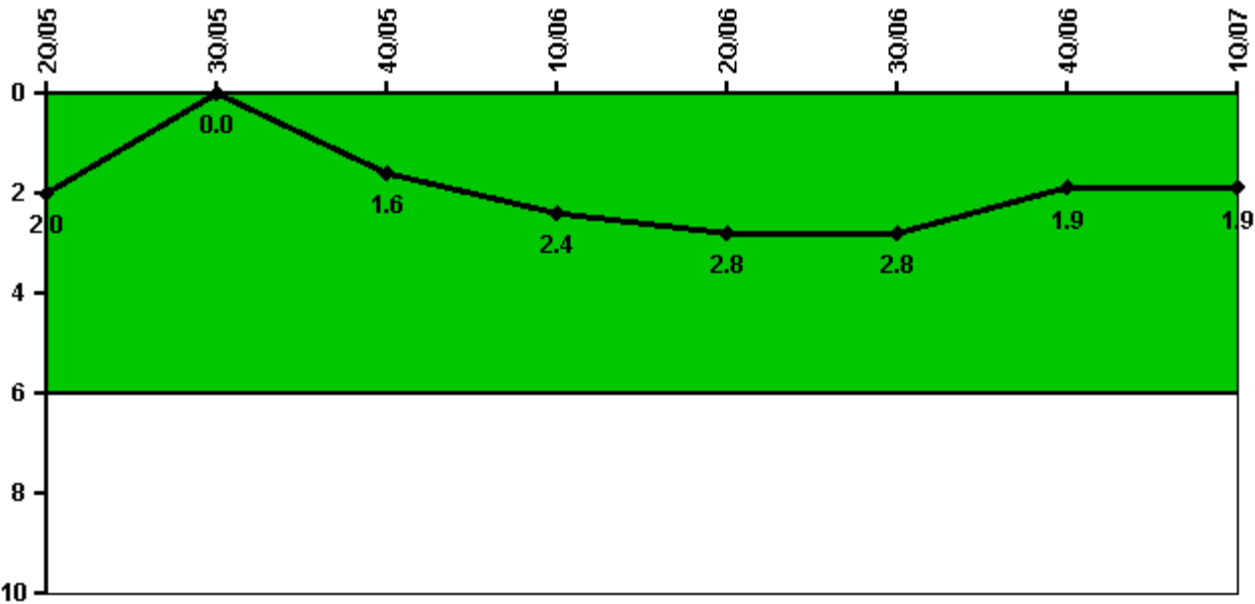
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



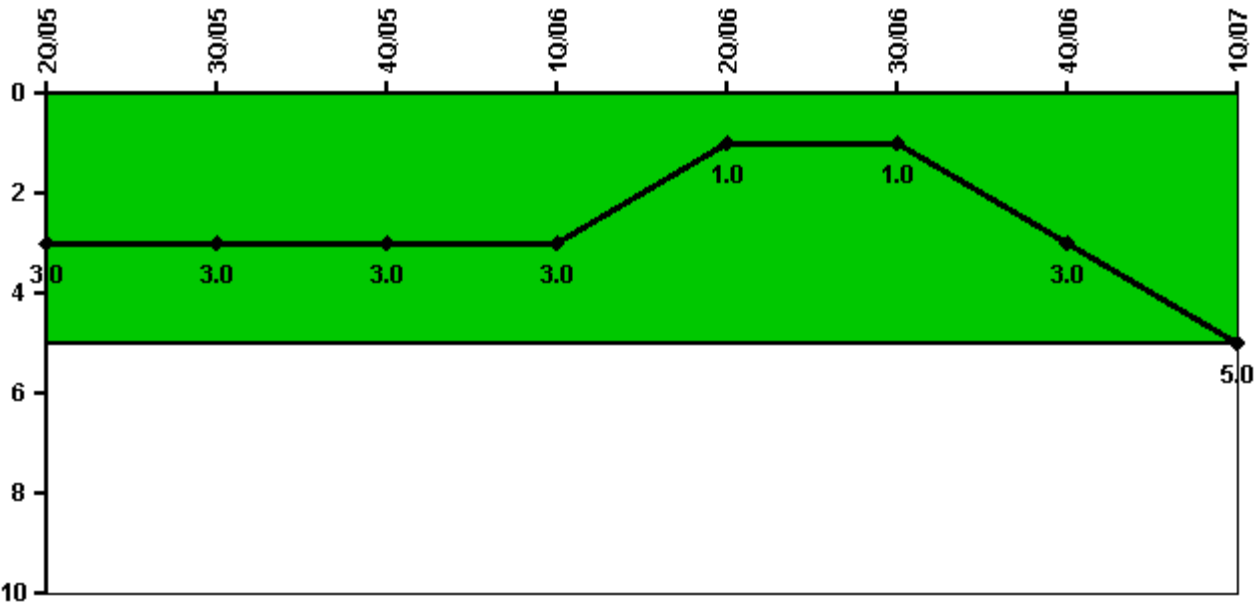
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned power changes	0	0	2.0	1.0	0	0	1.0	1.0
Critical hours	2183.0	2173.7	2185.2	2035.3	1155.0	2208.0	2163.5	1987.0
Indicator value	2.0	0	1.6	2.4	2.8	2.8	1.9	1.9

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

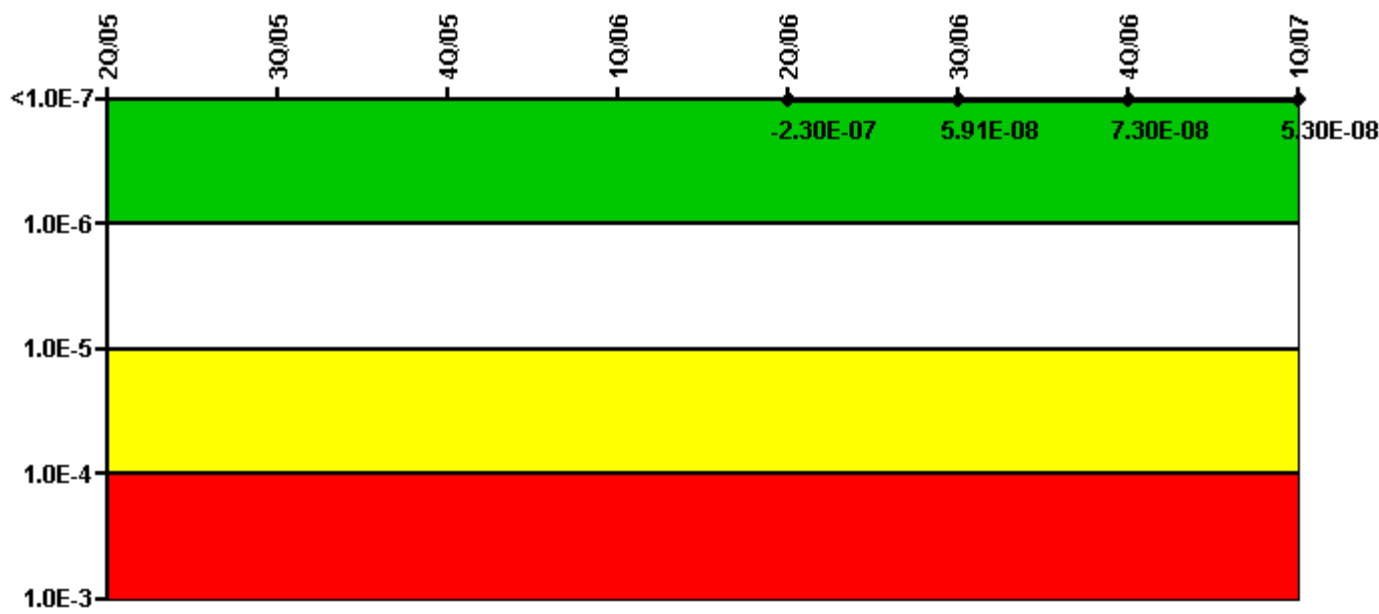
Notes

Safety System Functional Failures (PWR)	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Safety System Functional Failures	3	0	0	0	1	0	2	2
Indicator value	3	3	3	3	1	1	3	5

Licensee Comments:

1Q/07: LER 2006-008, Inoperable Containment Due to Containment Cooler Through-Wall Flaw and LER 2007-002, Inoperable Containment Due to Containment Cooler Through-Wall Flaw.

Mitigating Systems Performance Index, Emergency AC Power System



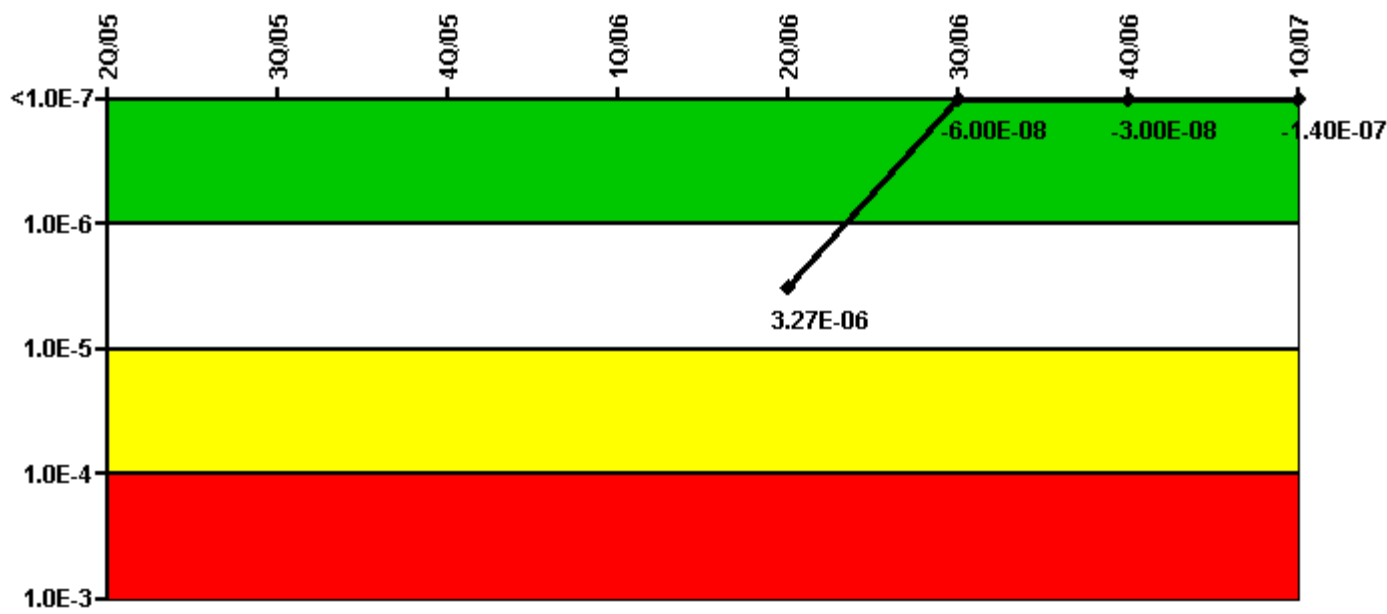
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (ACDF)					2.20E-07	4.10E-09	1.80E-08	6.50E-08
URI (ACDF)					-4.50E-07	5.50E-08	5.50E-08	-1.20E-08
PLE					NO	NO	NO	NO
Indicator value					-2.30E-07	5.91E-08	7.30E-08	5.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



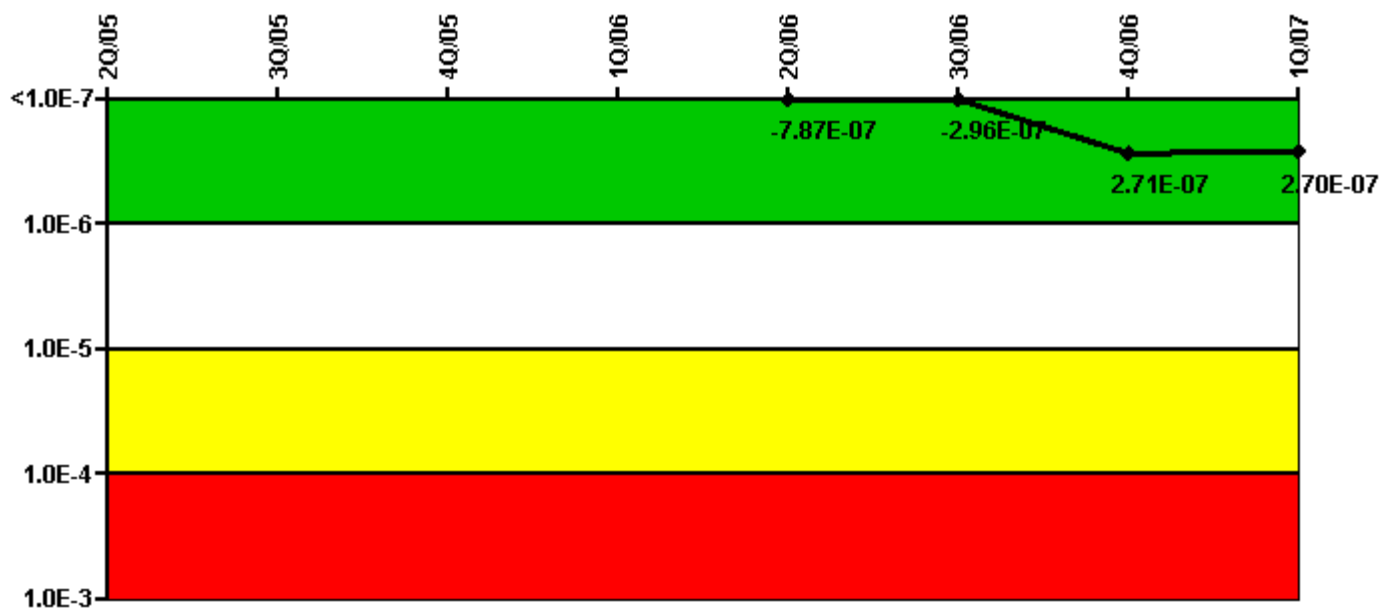
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					4.70E-07	2.10E-07	2.40E-07	1.30E-07
URI (ΔCDF)					2.80E-06	-2.70E-07	-2.70E-07	-2.70E-07
PLE					NO	NO	NO	NO
Indicator value					3.27E-06	-6.00E-08	-3.00E-08	-1.40E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



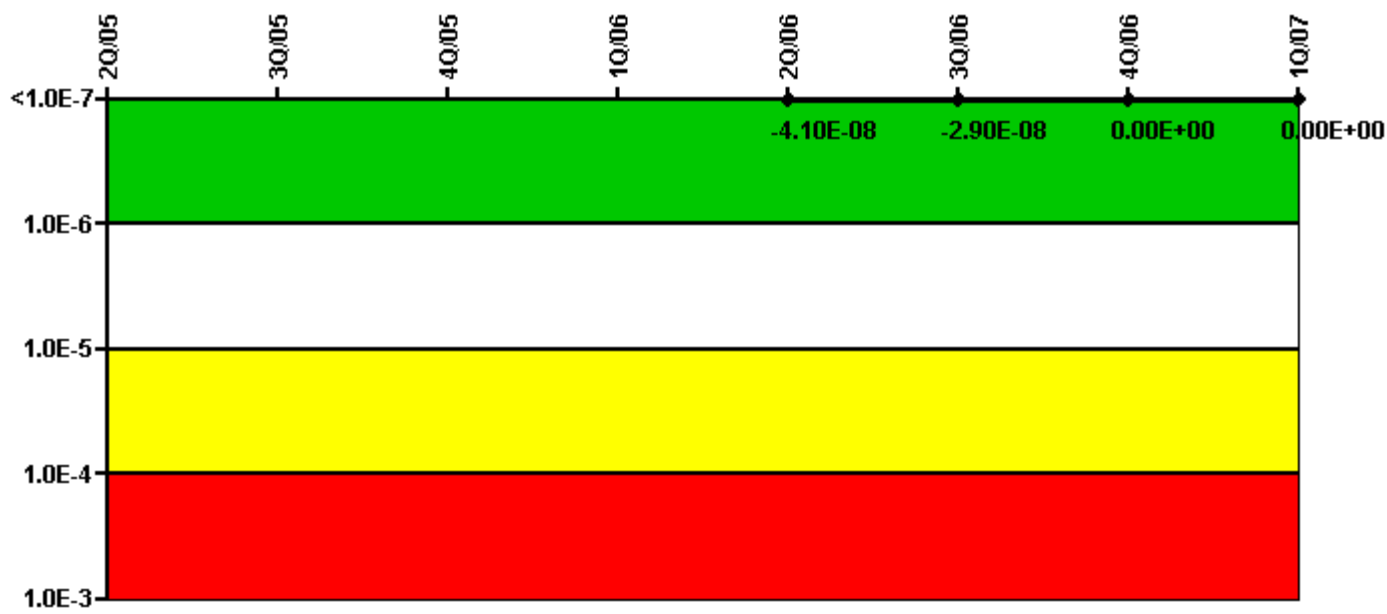
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					-4.70E-08	-1.60E-08	-9.10E-09	-1.00E-08
URI (ΔCDF)					-7.40E-07	-2.80E-07	2.80E-07	2.80E-07
PLE					NO	NO	NO	NO
Indicator value					-7.87E-07	-2.96E-07	2.71E-07	2.70E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



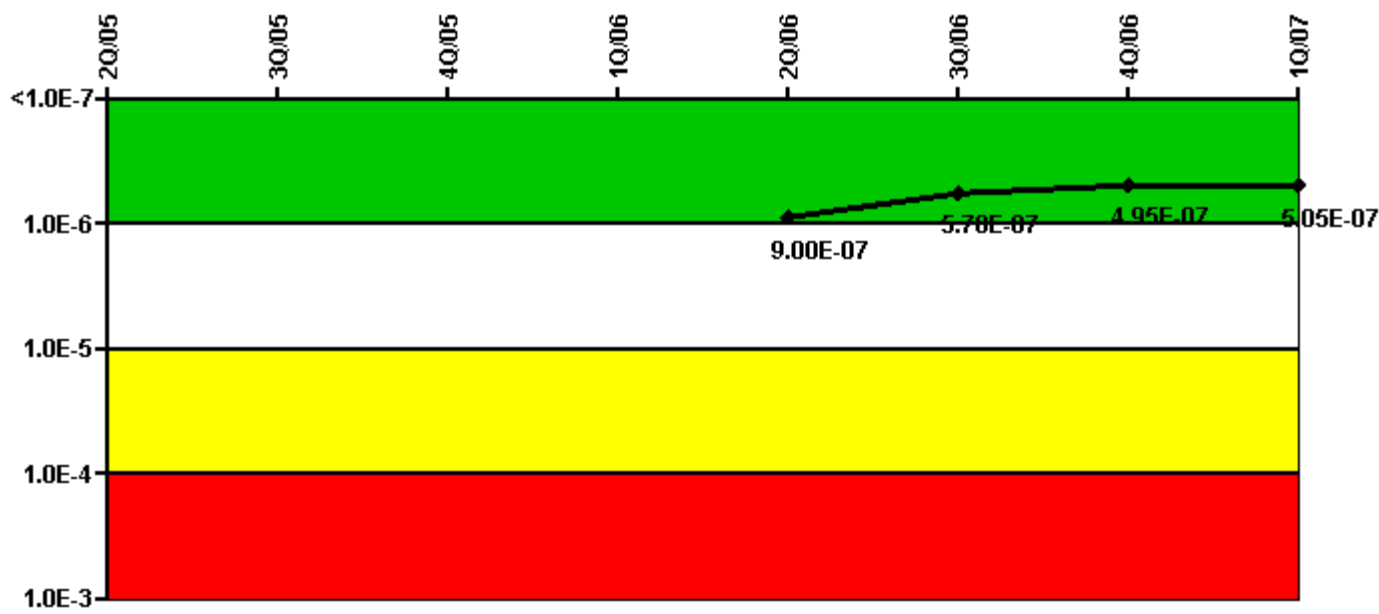
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					1.20E-08	1.10E-08	4.00E-08	4.00E-08
URI (ΔCDF)					-5.30E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE					NO	NO	NO	NO
Indicator value					-4.10E-08	-2.90E-08	0.00E+00	0.00E+00

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

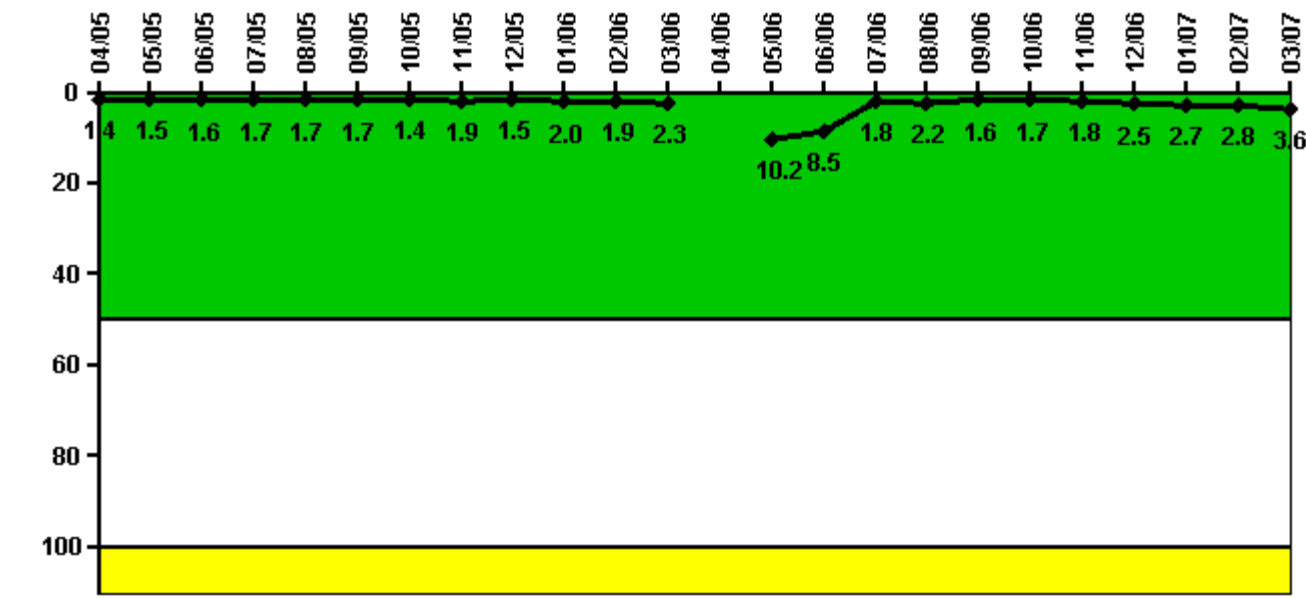
Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					5.00E-08	1.00E-07	2.50E-08	2.50E-08
URI (ΔCDF)					8.50E-07	4.70E-07	4.70E-07	4.80E-07
PLE					NO	NO	NO	NO
Indicator value					9.00E-07	5.70E-07	4.95E-07	5.05E-07

Licensee Comments:

1Q/07: Evaluation continues on potential failures associated with degraded MSPI component cabling identified in Feb. 2007. Additional lab testing is scheduled to be completed in May 2007.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

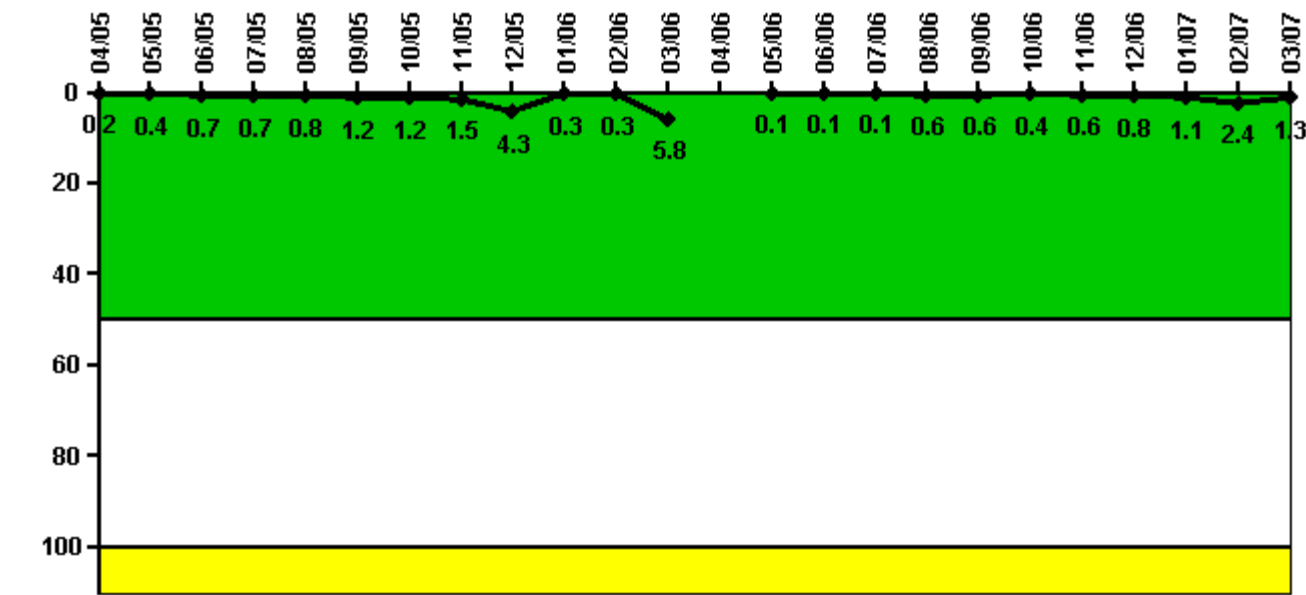
Notes

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	0.014300	0.015200	0.015900	0.017400	0.017300	0.017100	0.013800	0.018600	0.014500	0.020000	0.019200	0.022700
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.4	1.5	1.6	1.7	1.7	1.7	1.4	1.9	1.5	2.0	1.9	2.3

Reactor Coolant System Activity	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum activity	N/A	0.102000	0.084600	0.018300	0.022200	0.015700	0.017400	0.017800	0.024900	0.027300	0.028200	0.036000
Technical specification limit	1.0	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	10.2	8.5	1.8	2.2	1.6	1.7	1.8	2.5	2.7	2.8	3.6

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

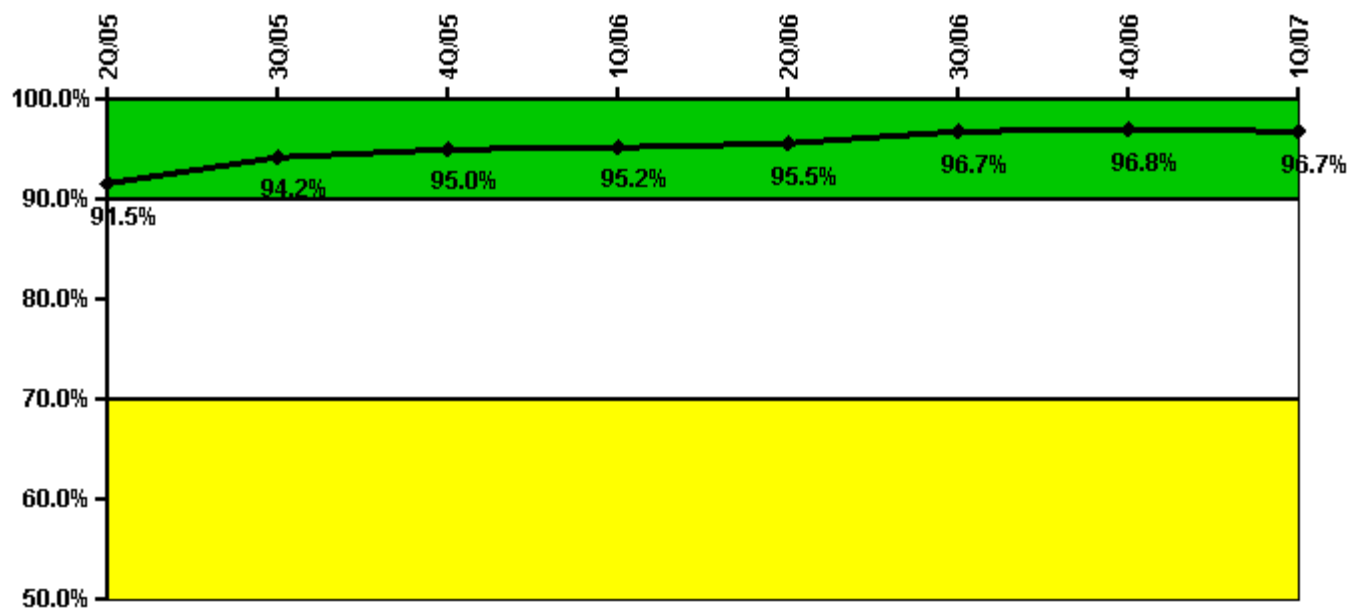
Notes

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	0.016	0.040	0.066	0.066	0.079	0.120	0.119	0.148	0.429	0.026	0.033	0.581
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.2	0.4	0.7	0.7	0.8	1.2	1.2	1.5	4.3	0.3	0.3	5.8

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	N/A	0.013	0.013	0.007	0.059	0.059	0.040	0.055	0.079	0.111	0.238	0.125
Technical specification limit	10.0	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	0.1	0.1	0.1	0.6	0.6	0.4	0.6	0.8	1.1	2.4	1.3

Licensee Comments: none

Drill/Exercise Performance



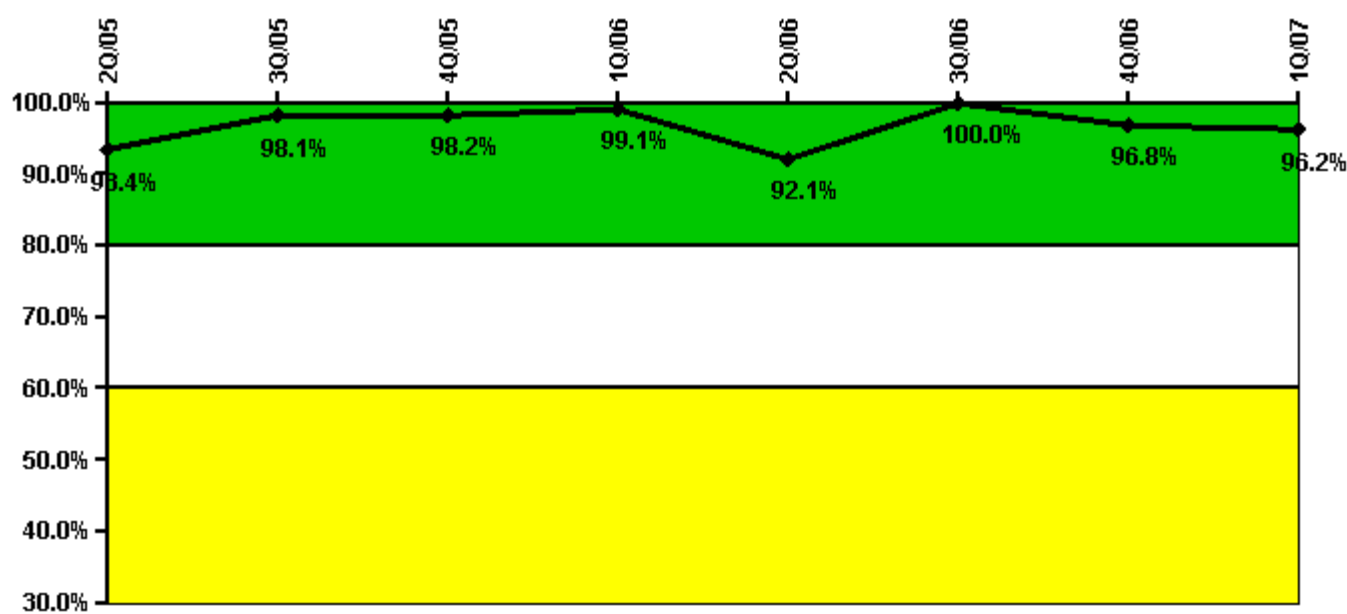
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful opportunities	75.0	82.0	12.0	96.0	36.0	40.0	25.0	19.0
Total opportunities	78.0	82.0	12.0	101.0	36.0	40.0	26.0	23.0
Indicator value	91.5%	94.2%	95.0%	95.2%	95.5%	96.7%	96.8%	96.7%

Licensee Comments: none

ERO Drill Participation



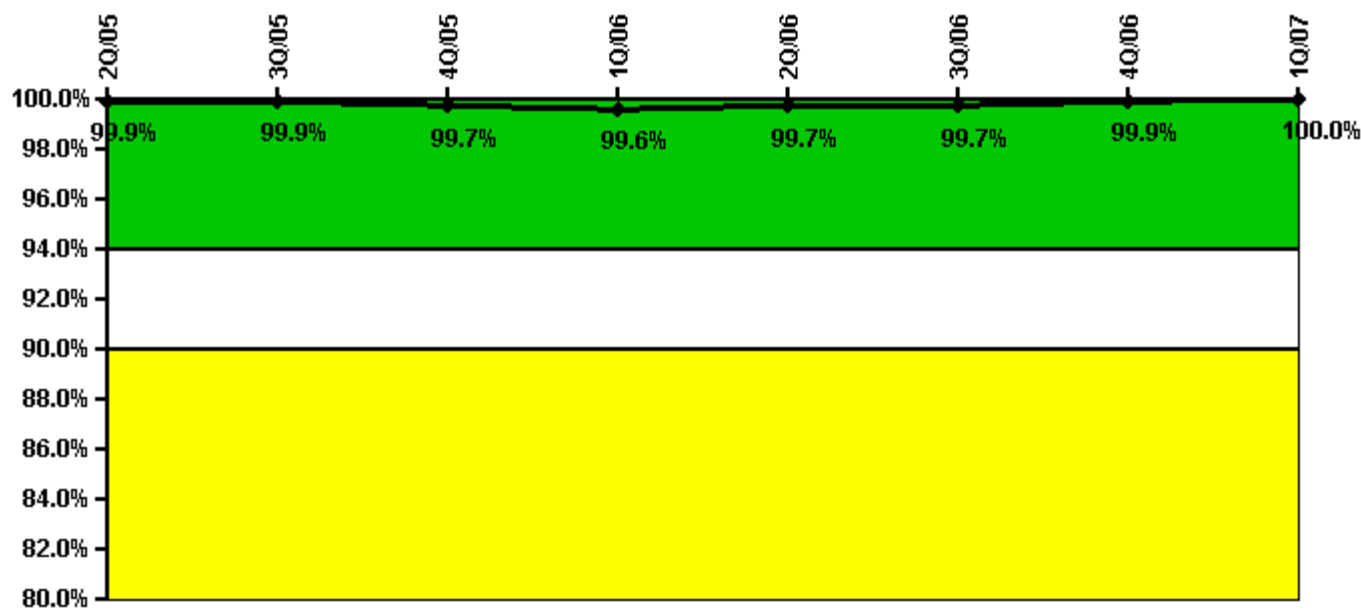
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Participating Key personnel	99.0	106.0	107.0	114.0	105.0	114.0	121.0	126.0
Total Key personnel	106.0	108.0	109.0	115.0	114.0	114.0	125.0	131.0
Indicator value	93.4%	98.1%	98.2%	99.1%	92.1%	100.0%	96.8%	96.2%

Licensee Comments: none

Alert & Notification System



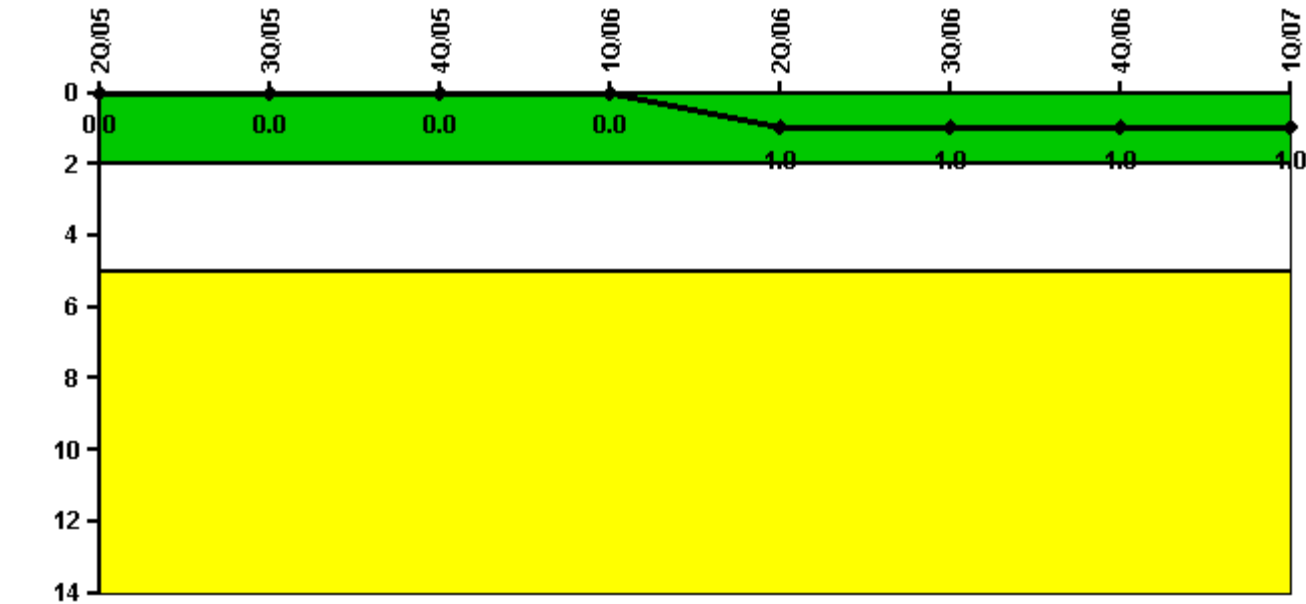
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful siren-tests	182	183	182	182	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.9%	99.9%	99.7%	99.6%	99.7%	99.7%	99.9%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



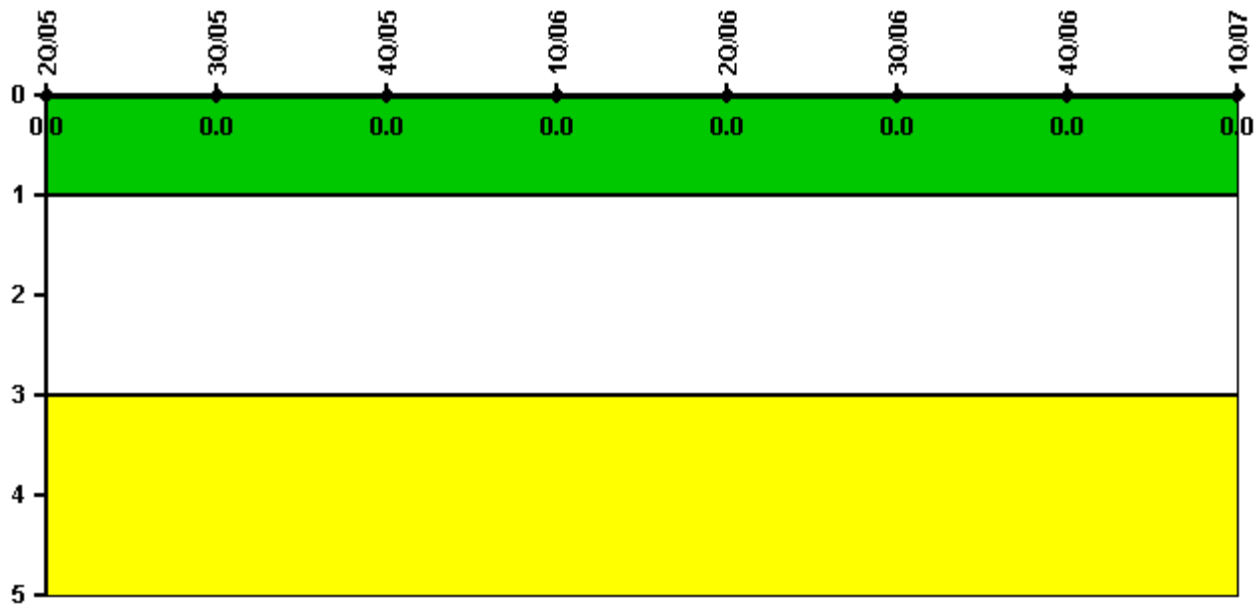
Thresholds: White > 2.0 Yellow > 5.0

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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](#)

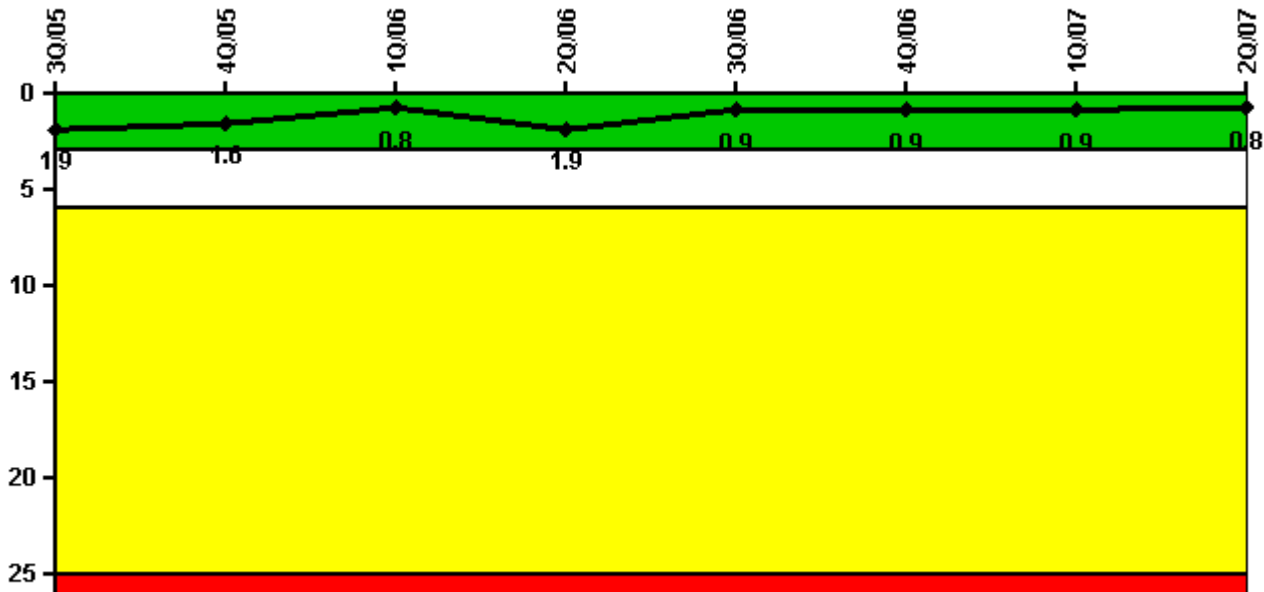
Last Modified: June 1, 2007

Palisades

2Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



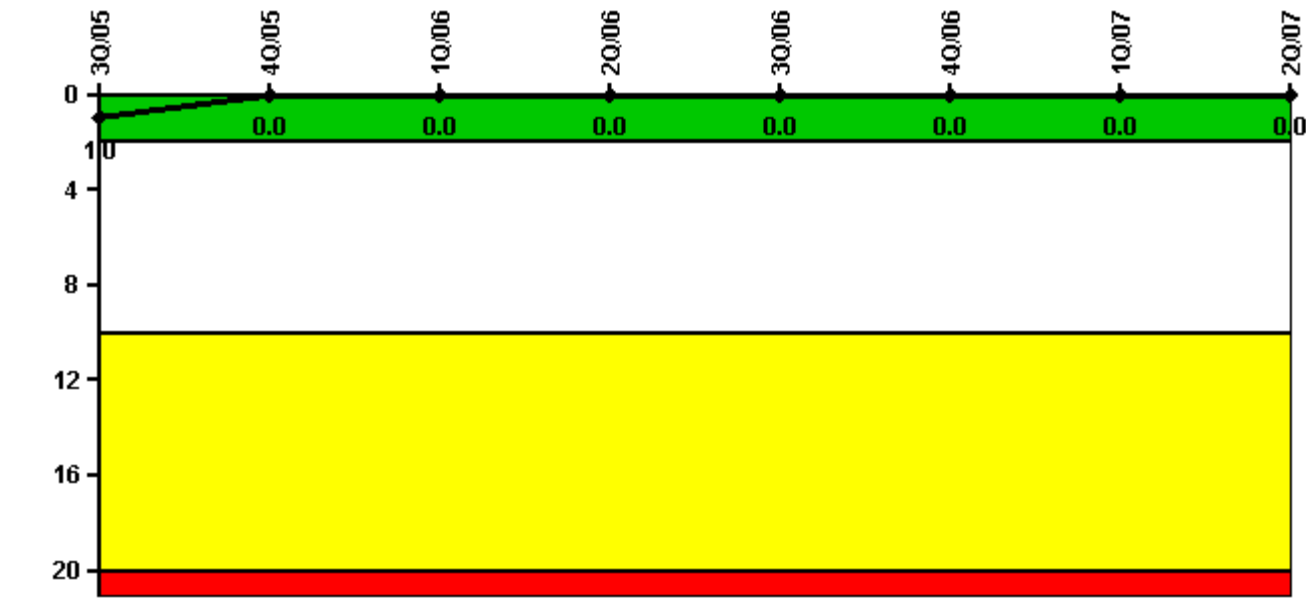
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	1.0	0	0	0	1.0
Critical hours	2173.7	2185.2	2035.3	1155.0	2208.0	2163.5	1987.0	2049.2
Indicator value	1.9	1.6	0.8	1.9	0.9	0.9	0.9	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



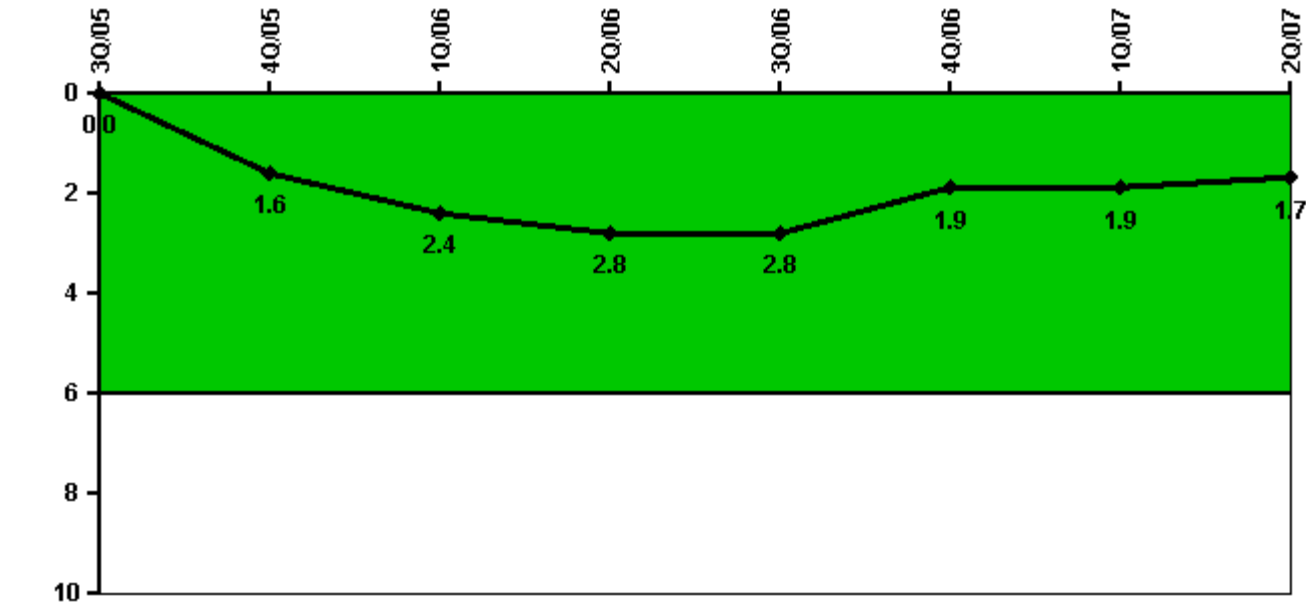
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



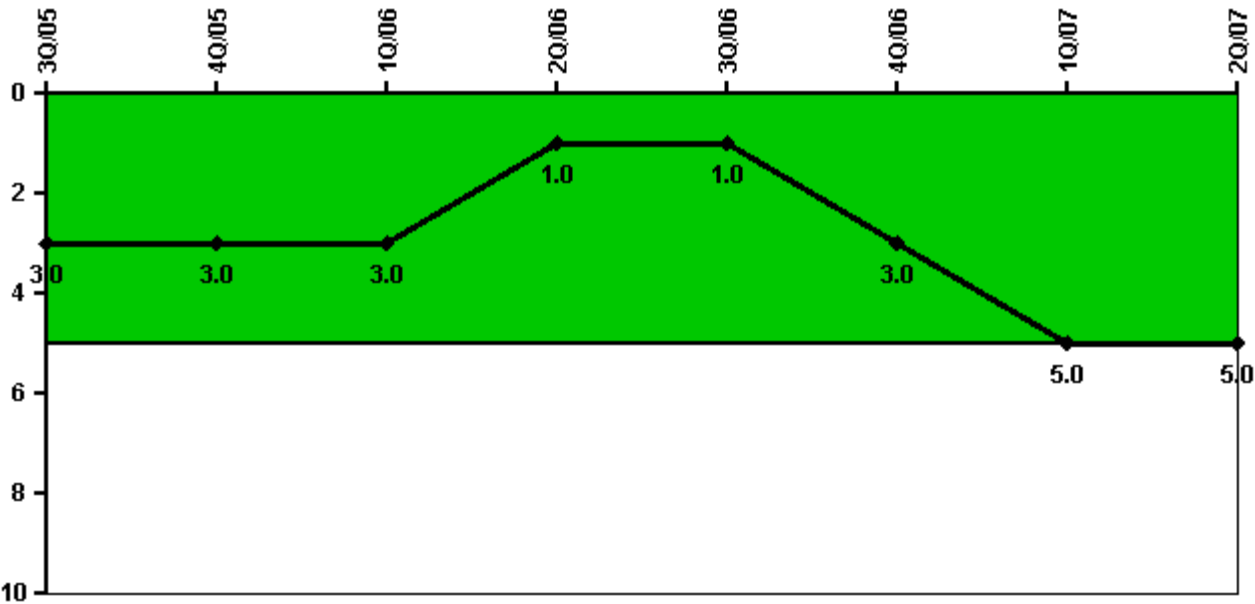
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned power changes	0	2.0	1.0	0	0	1.0	1.0	0
Critical hours	2173.7	2185.2	2035.3	1155.0	2208.0	2163.5	1987.0	2049.2
Indicator value	0	1.6	2.4	2.8	2.8	1.9	1.9	1.7

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

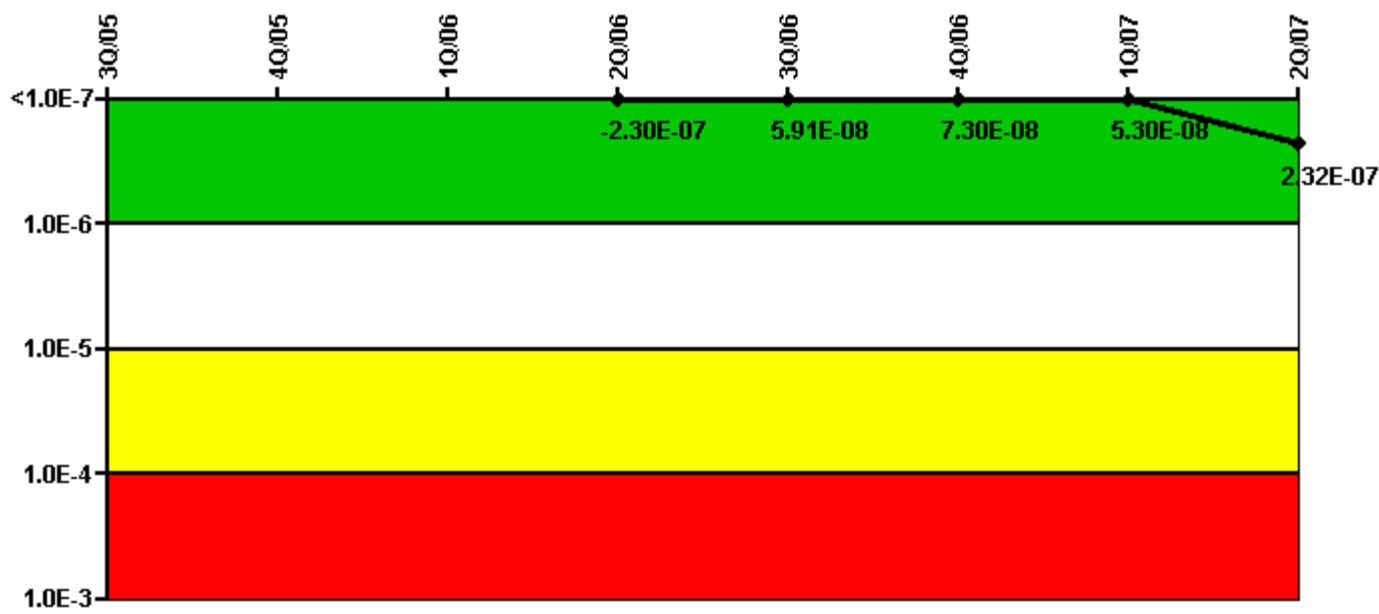
Notes

Safety System Functional Failures (PWR)	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Safety System Functional Failures	0	0	0	1	0	2	2	1
Indicator value	3	3	3	1	1	3	5	5

Licensee Comments:

2Q/07: Licensee Event Report 07-003, Potential For Reduced Compont Cooling Water Cooling Capability.

Mitigating Systems Performance Index, Emergency AC Power System



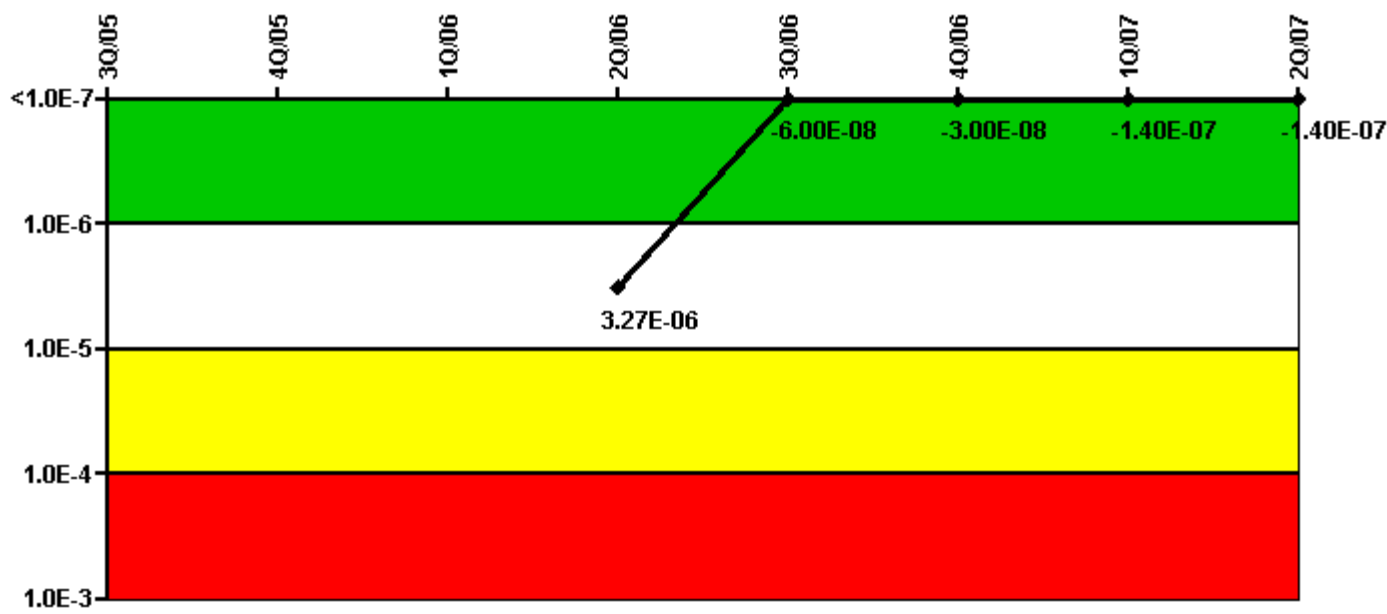
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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 (ACDF)				2.20E-07	4.10E-09	1.80E-08	6.50E-08	8.20E-08
URI (ACDF)				-4.50E-07	5.50E-08	5.50E-08	-1.20E-08	1.50E-07
PLE				NO	NO	NO	NO	NO
Indicator value				-2.30E-07	5.91E-08	7.30E-08	5.30E-08	2.32E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



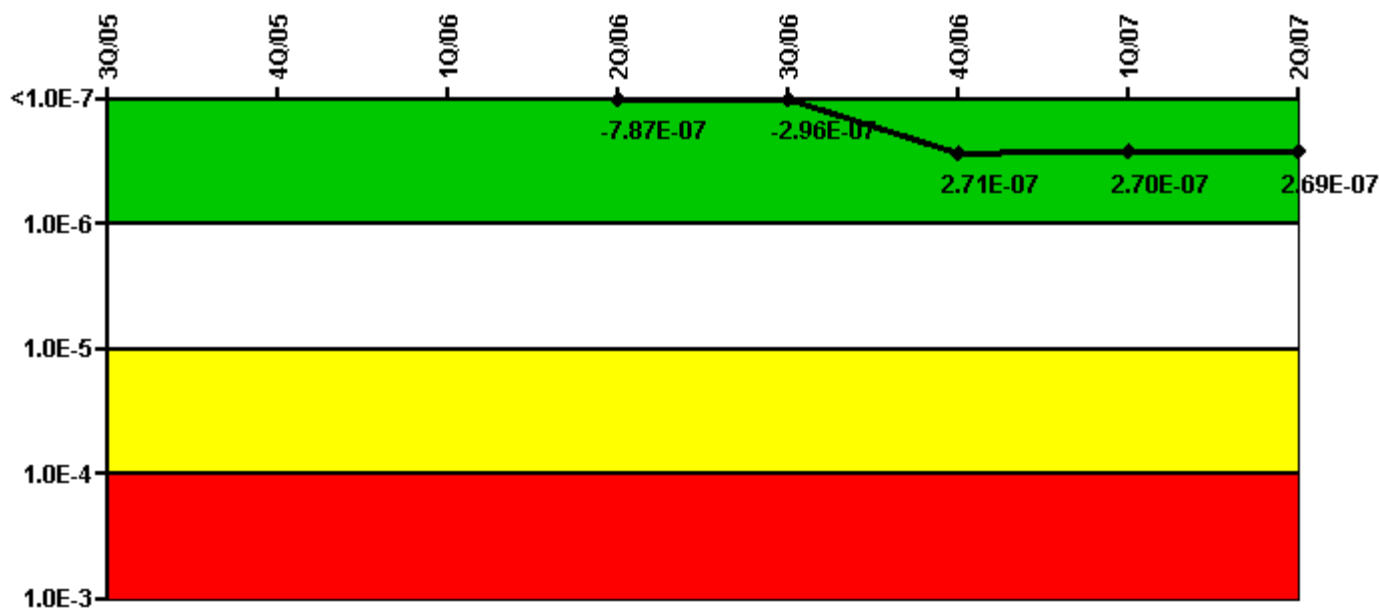
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ΔCDF)				4.70E-07	2.10E-07	2.40E-07	1.30E-07	1.30E-07
URI (ΔCDF)				2.80E-06	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07
PLE				NO	NO	NO	NO	NO
Indicator value				3.27E-06	-6.00E-08	-3.00E-08	-1.40E-07	-1.40E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



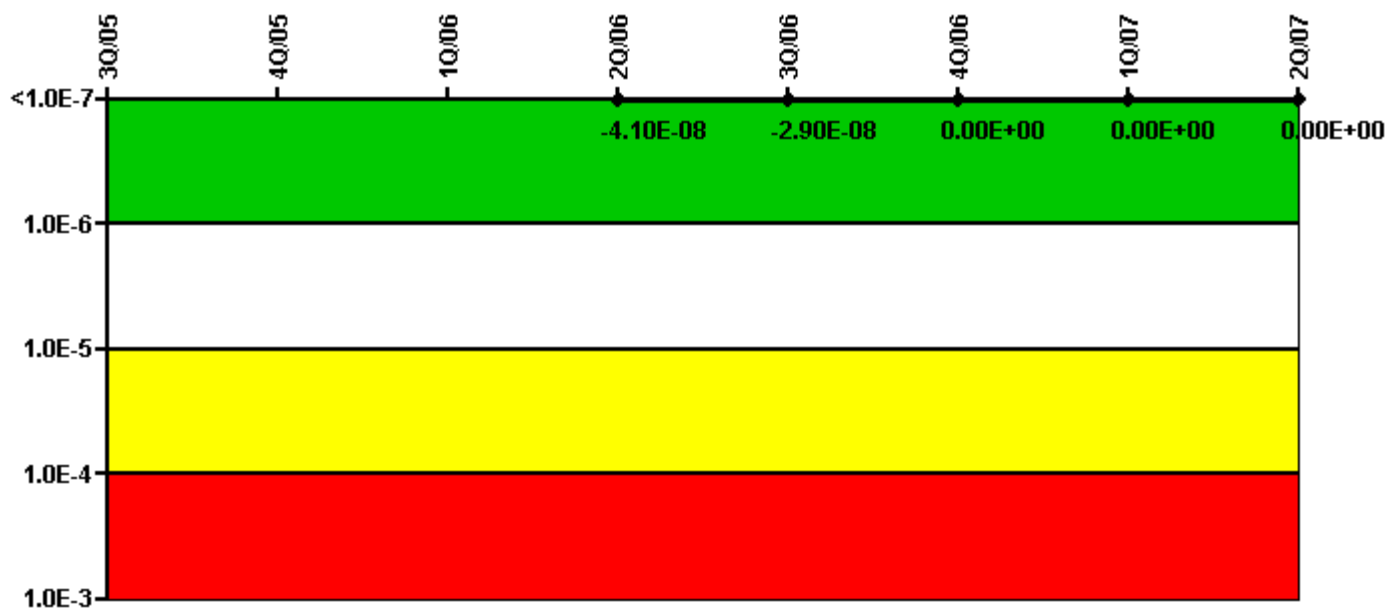
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ΔCDF)				-4.70E-08	-1.60E-08	-9.10E-09	-1.00E-08	-1.10E-08
URI (ΔCDF)				-7.40E-07	-2.80E-07	2.80E-07	2.80E-07	2.80E-07
PLE				NO	NO	NO	NO	NO
Indicator value				-7.87E-07	-2.96E-07	2.71E-07	2.70E-07	2.69E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



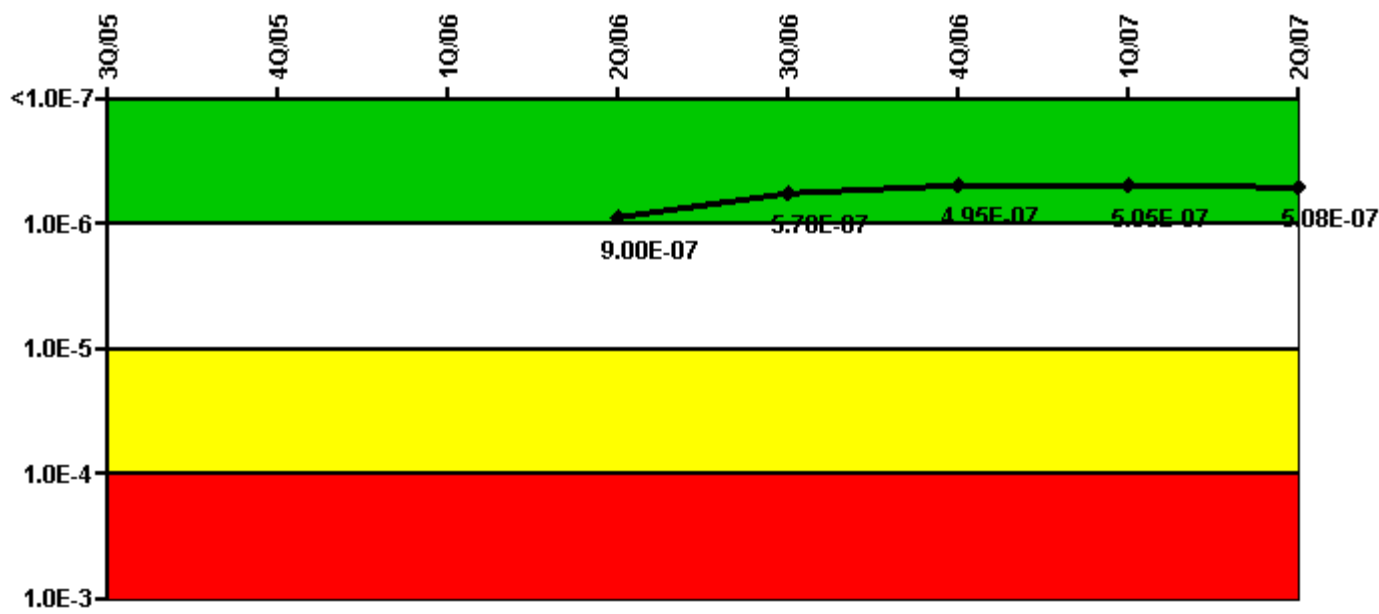
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ΔCDF)				1.20E-08	1.10E-08	4.00E-08	4.00E-08	4.00E-08
URI (ΔCDF)				-5.30E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE				NO	NO	NO	NO	NO
Indicator value				-4.10E-08	-2.90E-08	0.00E+00	0.00E+00	0.00E+00

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

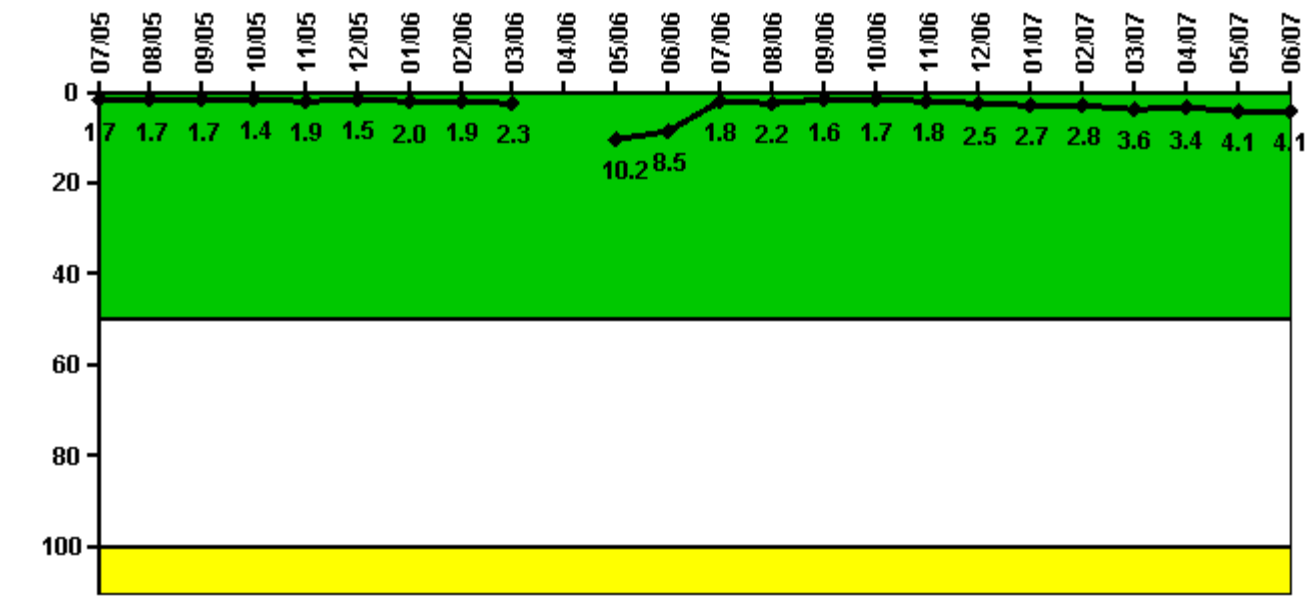
Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ΔCDF)				5.00E-08	1.00E-07	2.50E-08	2.50E-08	2.80E-08
URI (ΔCDF)				8.50E-07	4.70E-07	4.70E-07	4.80E-07	4.80E-07
PLE				NO	NO	NO	NO	NO
Indicator value				9.00E-07	5.70E-07	4.95E-07	5.05E-07	5.08E-07

Licensee Comments:

2Q/07: Testing and evaluation of degraded MSPI component cabling identified in February 2007 concluded no MSPI Failures resulted.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

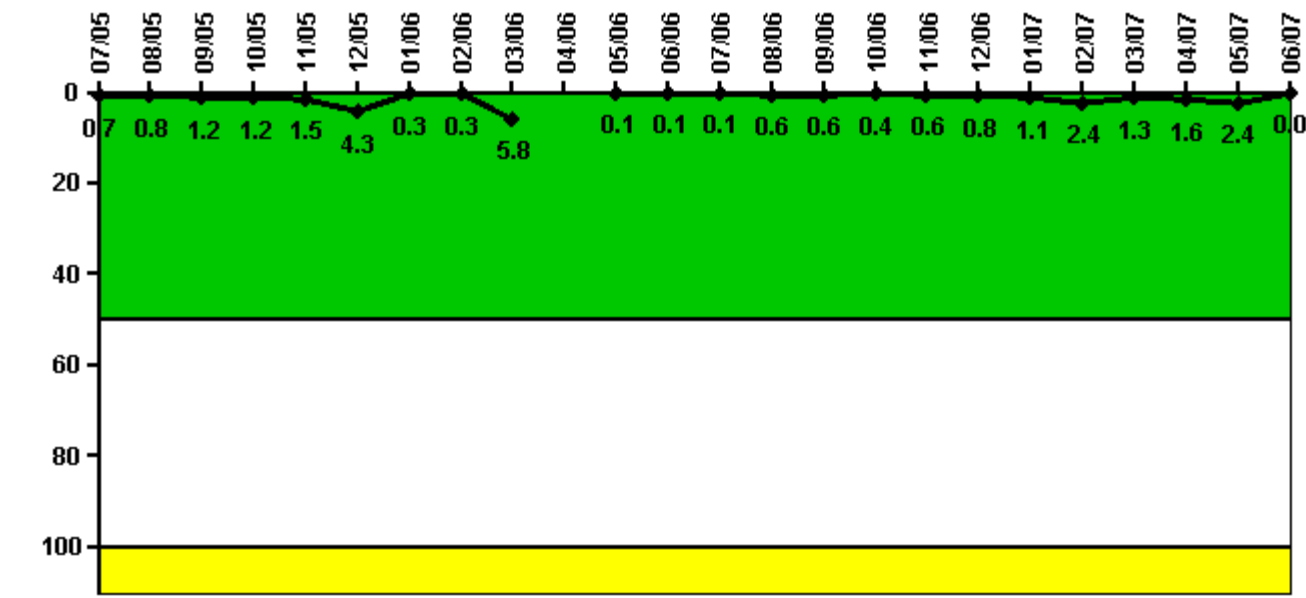
Notes

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	0.017400	0.017300	0.017100	0.013800	0.018600	0.014500	0.020000	0.019200	0.022700	N/A	0.102000	0.084600
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.7	1.7	1.7	1.4	1.9	1.5	2.0	1.9	2.3	N/A	10.2	8.5

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	0.018300	0.022200	0.015700	0.017400	0.017800	0.024900	0.027300	0.028200	0.036000	0.033800	0.040800	0.041000
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.8	2.2	1.6	1.7	1.8	2.5	2.7	2.8	3.6	3.4	4.1	4.1

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

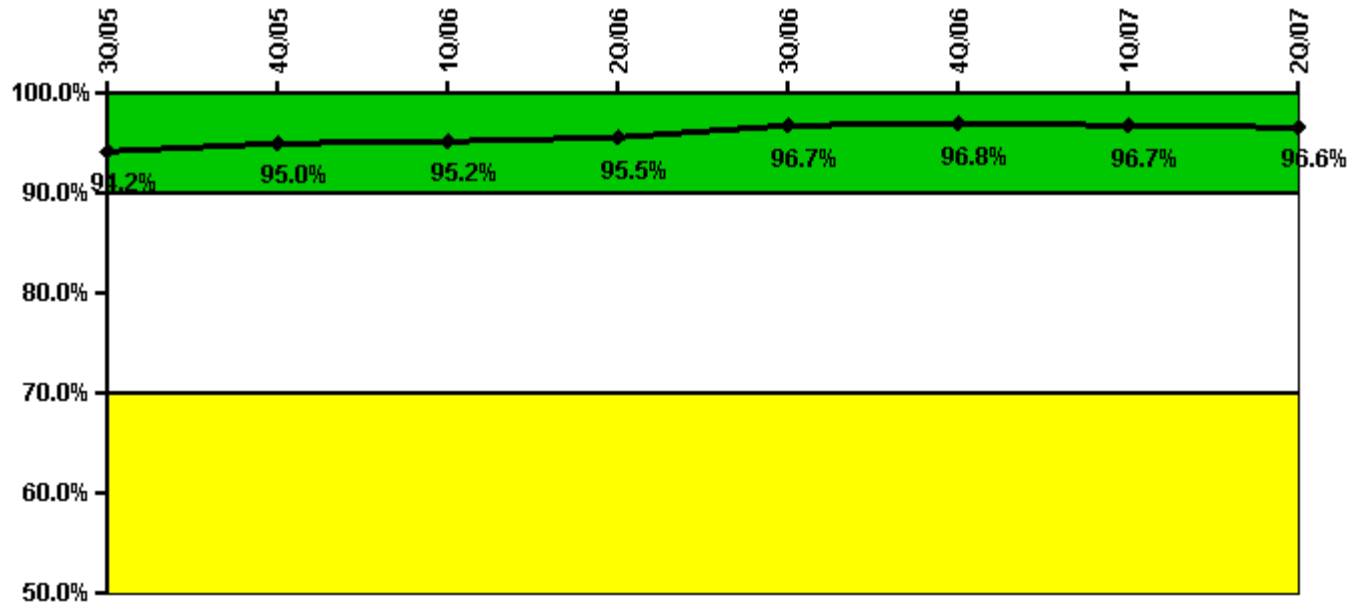
Notes

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	0.066	0.079	0.120	0.119	0.148	0.429	0.026	0.033	0.581	N/A	0.013	0.013
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.8	1.2	1.2	1.5	4.3	0.3	0.3	5.8	N/A	0.1	0.1

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	0.007	0.059	0.059	0.040	0.055	0.079	0.111	0.238	0.125	0.164	0.238	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	0.6	0.6	0.4	0.6	0.8	1.1	2.4	1.3	1.6	2.4	0

Licensee Comments: none

Drill/Exercise Performance



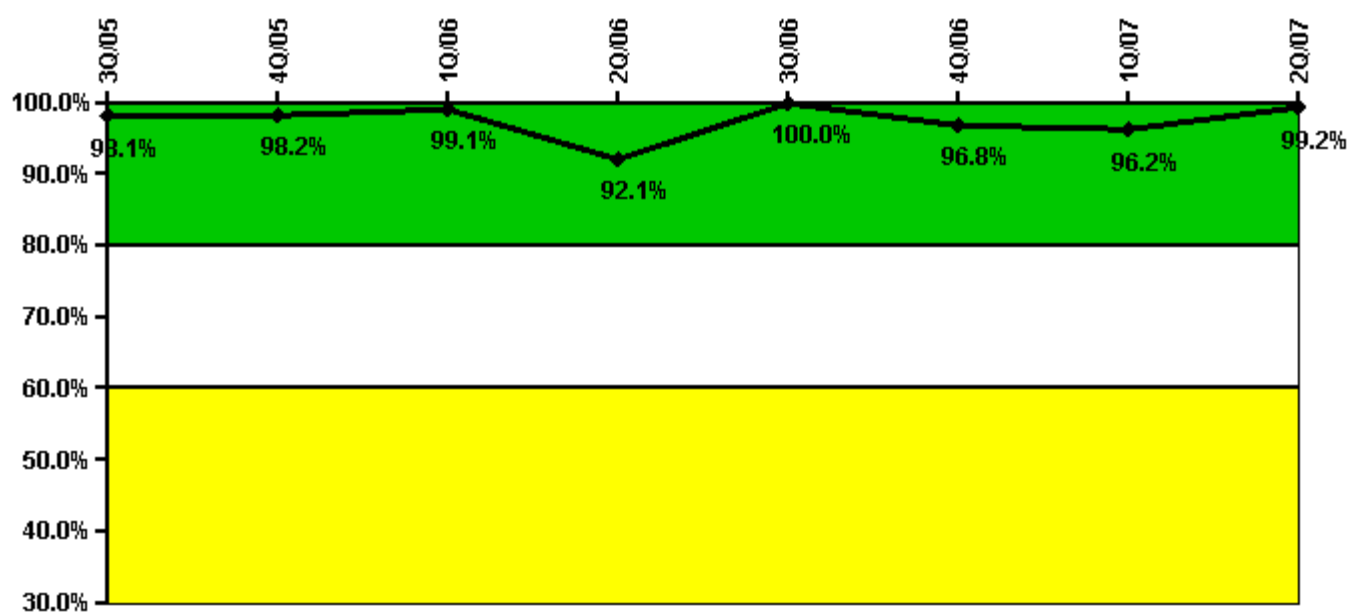
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful opportunities	82.0	12.0	96.0	36.0	40.0	25.0	19.0	28.0
Total opportunities	82.0	12.0	101.0	36.0	40.0	26.0	23.0	30.0
Indicator value	94.2%	95.0%	95.2%	95.5%	96.7%	96.8%	96.7%	96.6%

Licensee Comments: none

ERO Drill Participation



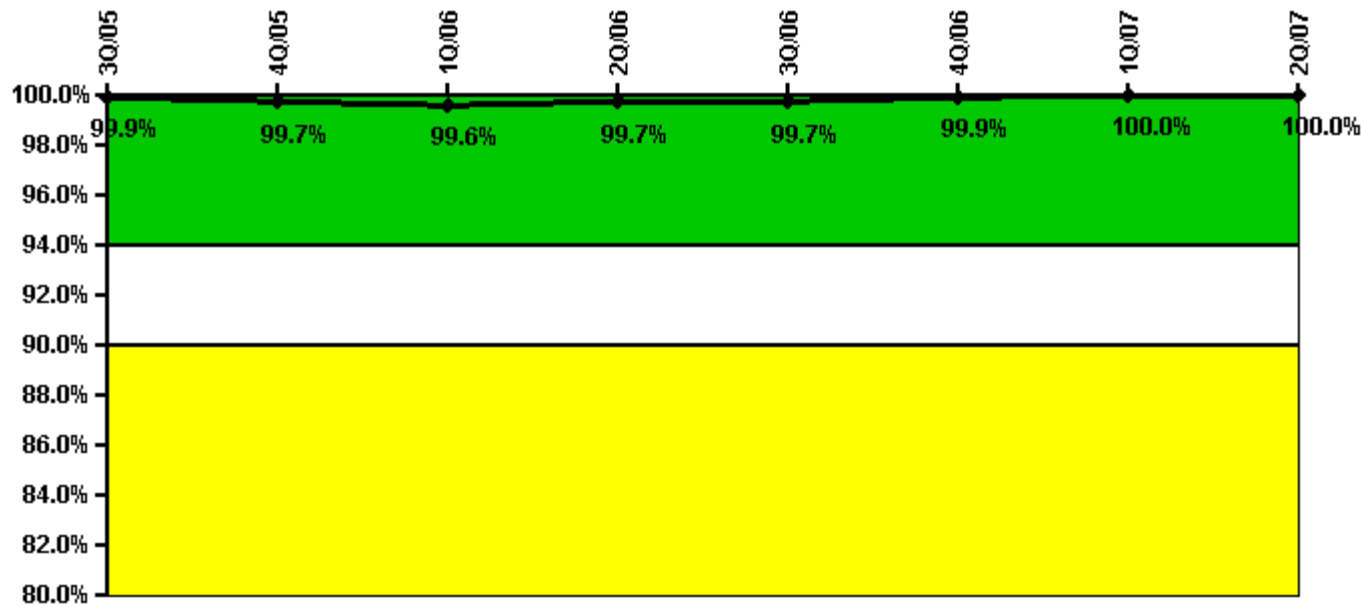
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Participating Key personnel	106.0	107.0	114.0	105.0	114.0	121.0	126.0	125.0
Total Key personnel	108.0	109.0	115.0	114.0	114.0	125.0	131.0	126.0
Indicator value	98.1%	98.2%	99.1%	92.1%	100.0%	96.8%	96.2%	99.2%

Licensee Comments: none

Alert & Notification System



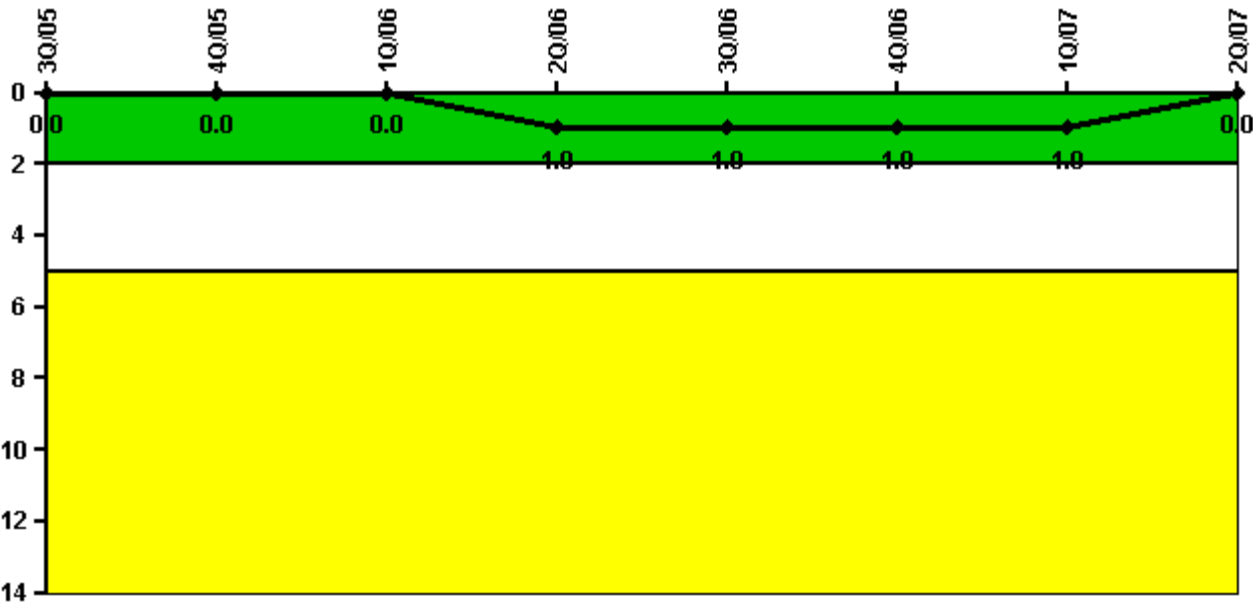
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful siren-tests	183	182	182	183	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.9%	99.7%	99.6%	99.7%	99.7%	99.9%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



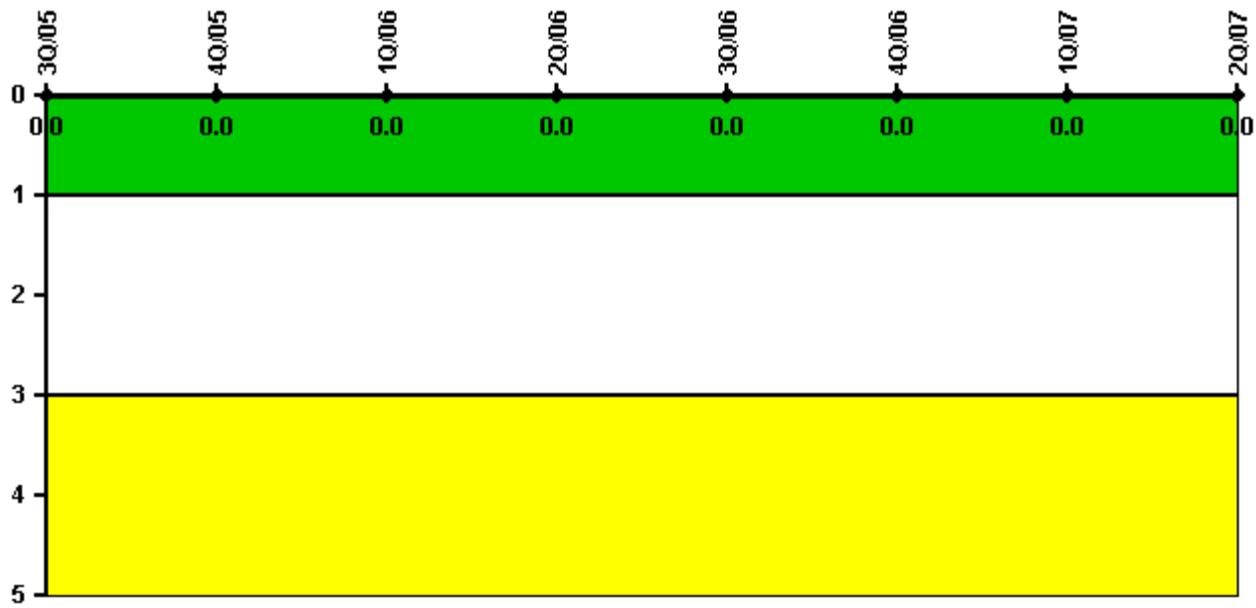
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

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

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

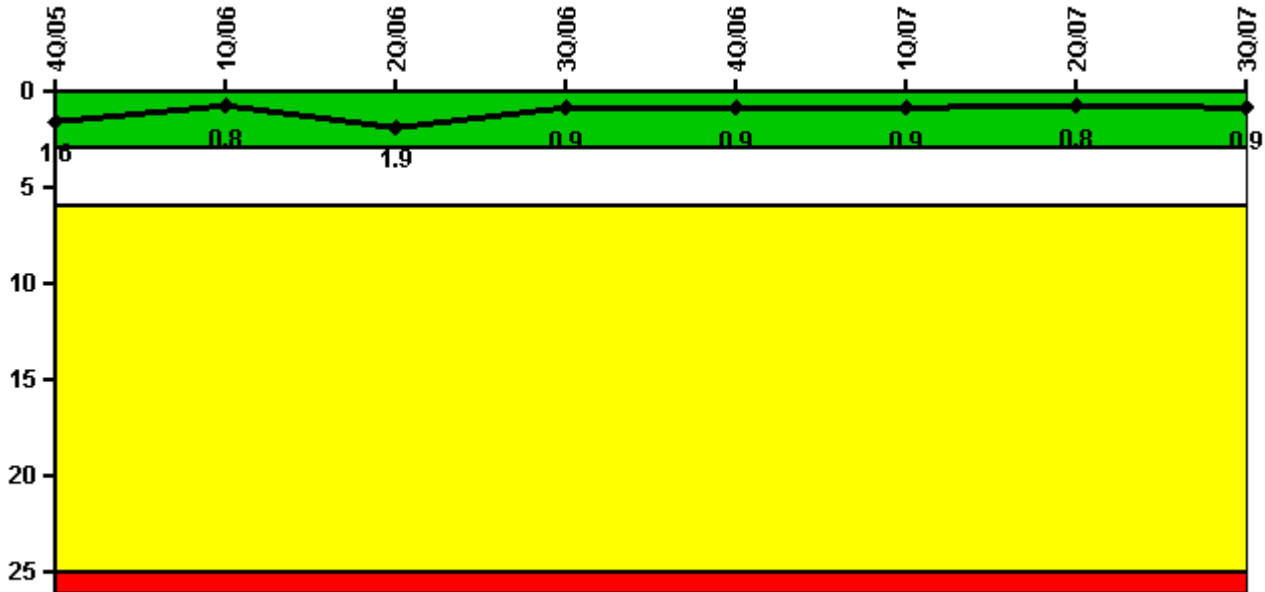
Last Modified: August 6, 2007

Palisades

3Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



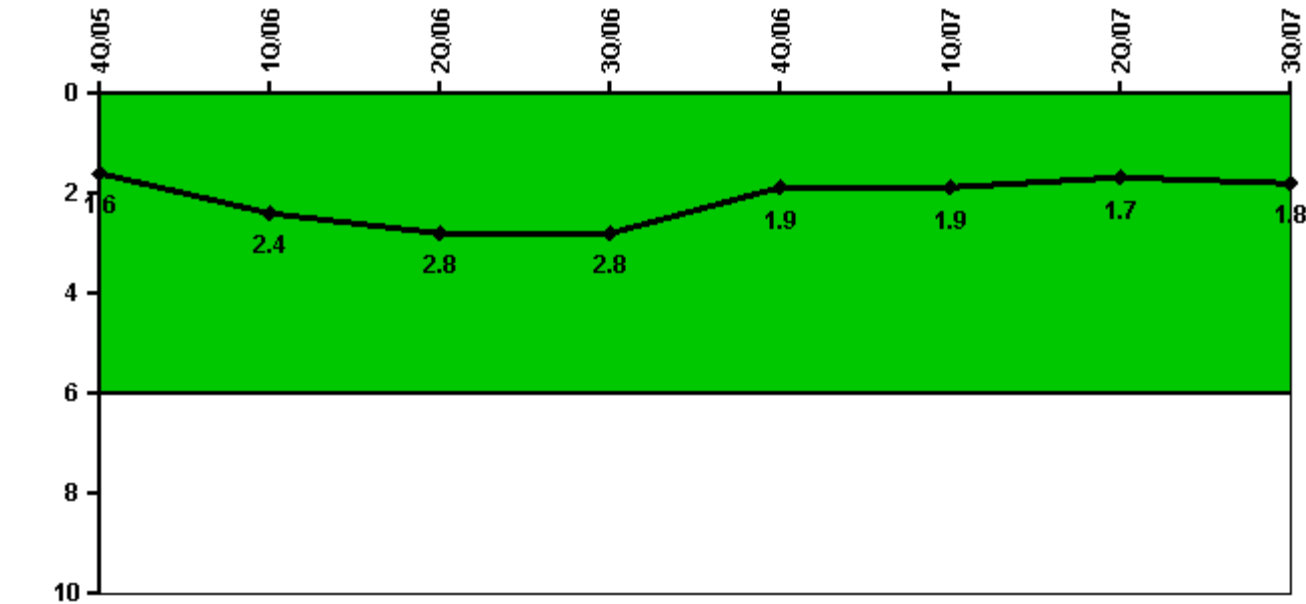
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	1.0	0
Critical hours	2185.2	2035.3	1155.0	2208.0	2163.5	1987.0	2049.2	1691.0
Indicator value	1.6	0.8	1.9	0.9	0.9	0.9	0.8	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



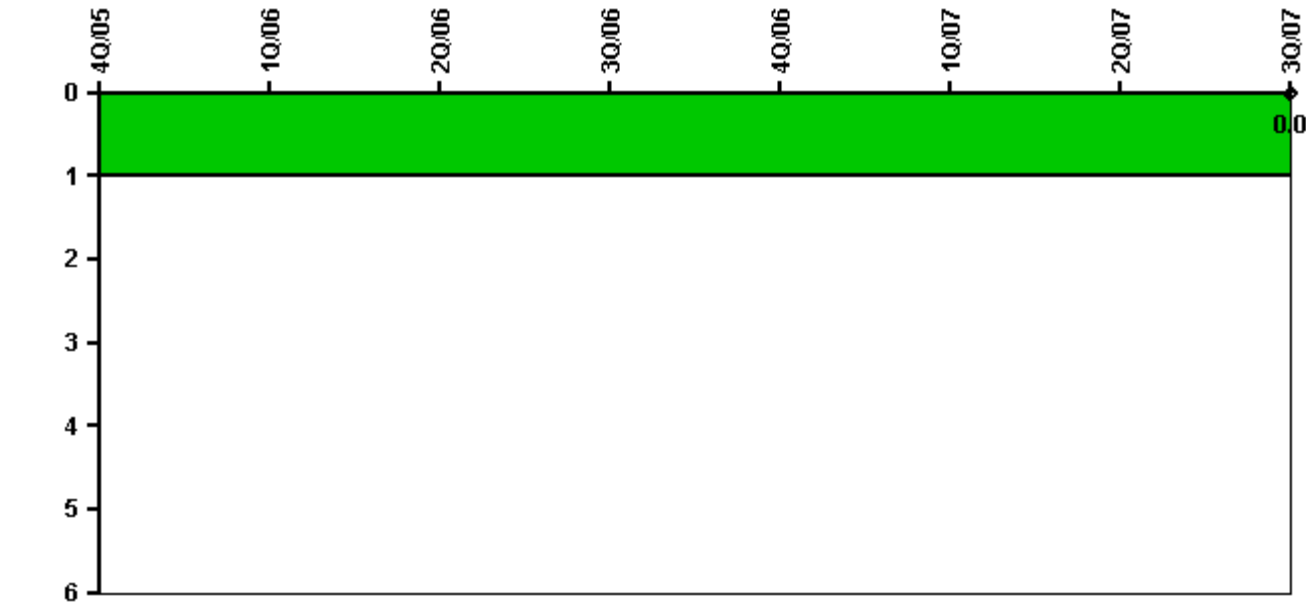
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned power changes	2.0	1.0	0	0	1.0	1.0	0	0
Critical hours	2185.2	2035.3	1155.0	2208.0	2163.5	1987.0	2049.2	1691.0
Indicator value	1.6	2.4	2.8	2.8	1.9	1.9	1.7	1.8

Licensee Comments: none

Unplanned Scrams with Complications



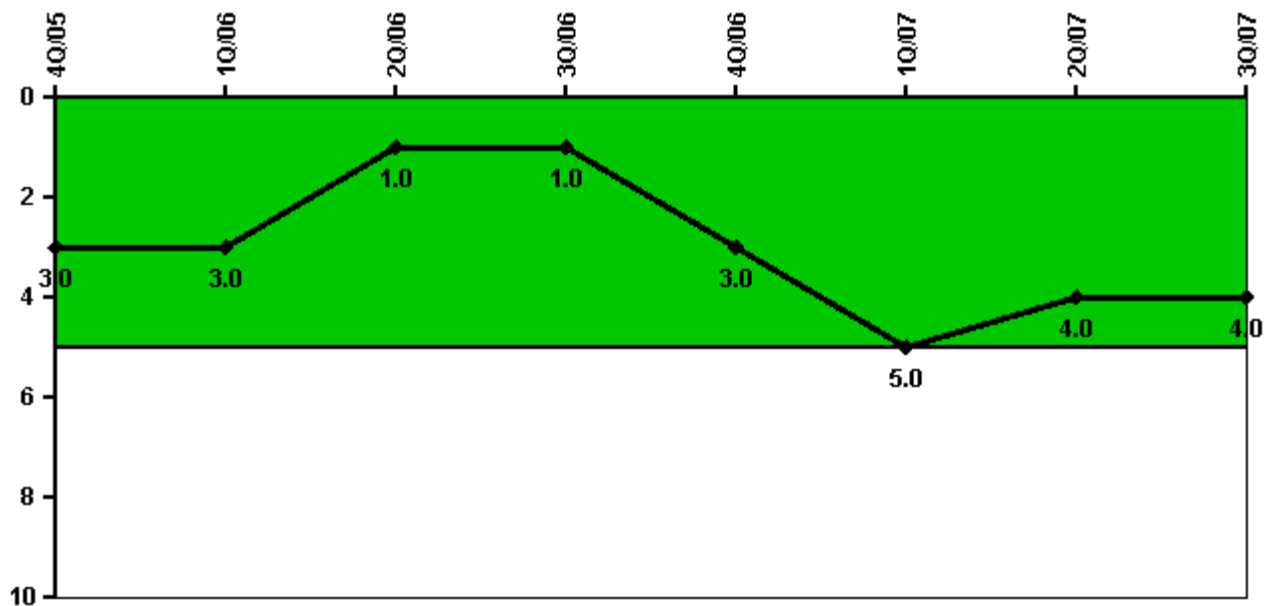
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Scrams with complications					0	0	0	0
Indicator value								0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

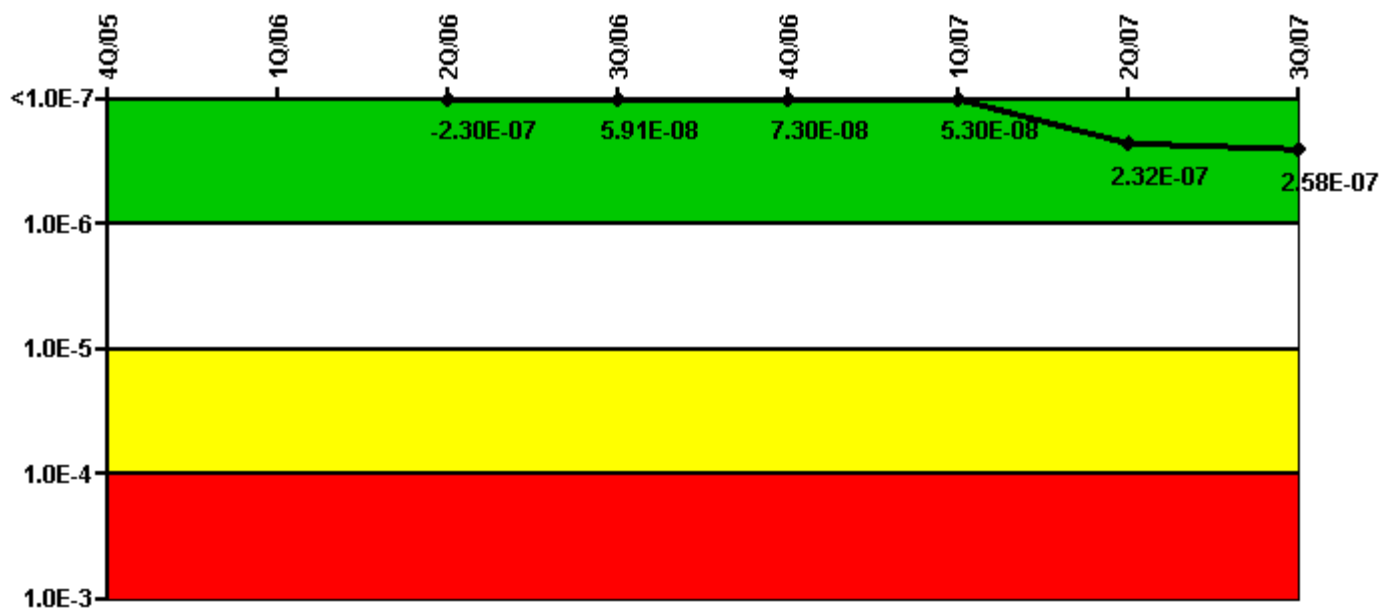
Notes

Safety System Functional Failures (PWR)	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Safety System Functional Failures	0	0	1	0	2	2	0	0
Indicator value	3	3	1	1	3	5	4	4

Licensee Comments:

2Q/07: Licensee Event Report 07-003, Potential For Reduced Compont Cooling Water Cooling Capability was originally reported in April 2007 data however by September 14, 2007 letter to the NRC the LER was cancelled. Therefore, the April data has been changed to zero.

Mitigating Systems Performance Index, Emergency AC Power System



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

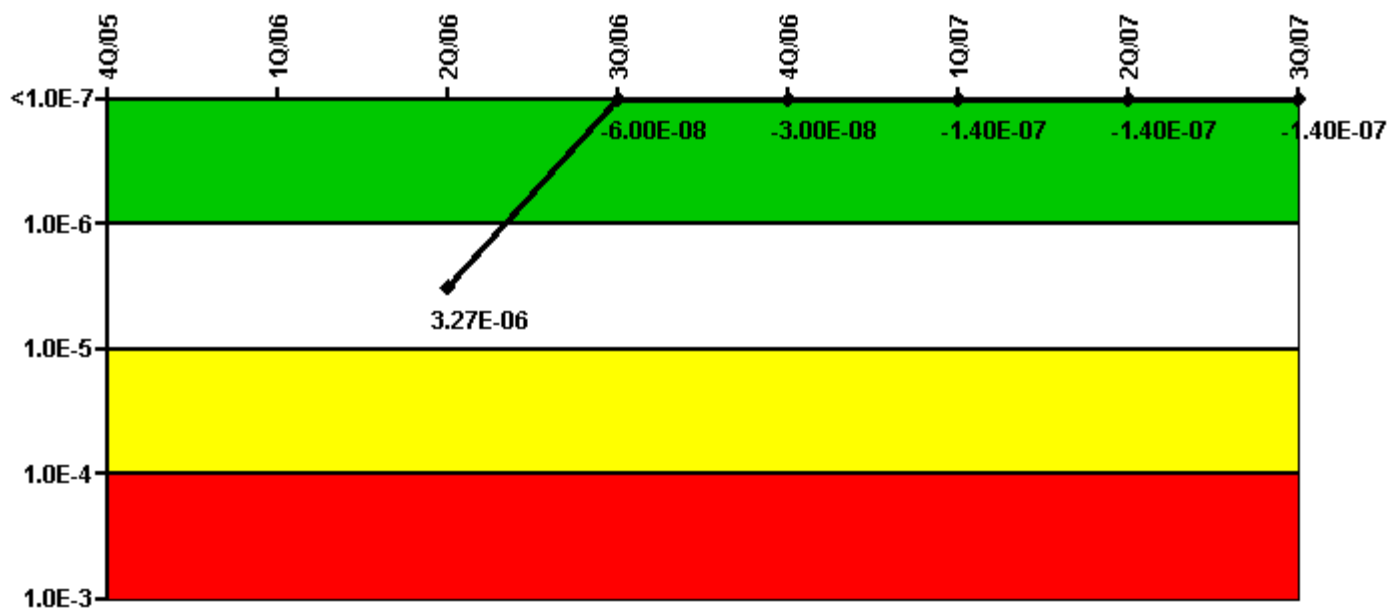
Notes

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 (ACDF)			2.20E-07	4.10E-09	1.80E-08	6.50E-08	8.20E-08	3.80E-08
URI (ACDF)			-4.50E-07	5.50E-08	5.50E-08	-1.20E-08	1.50E-07	2.20E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-2.30E-07	5.91E-08	7.30E-08	5.30E-08	2.32E-07	2.58E-07

Licensee Comments:

3Q/07: One MSPI failure (EDG Failure to Run) occurred in September 2007 due to a fuel oil leak on Cylinder 1R of EDG 1-1 (Ref. CR-PLP-2007-04078). Additional evaluation of this event is in progress.

Mitigating Systems Performance Index, High Pressure Injection System



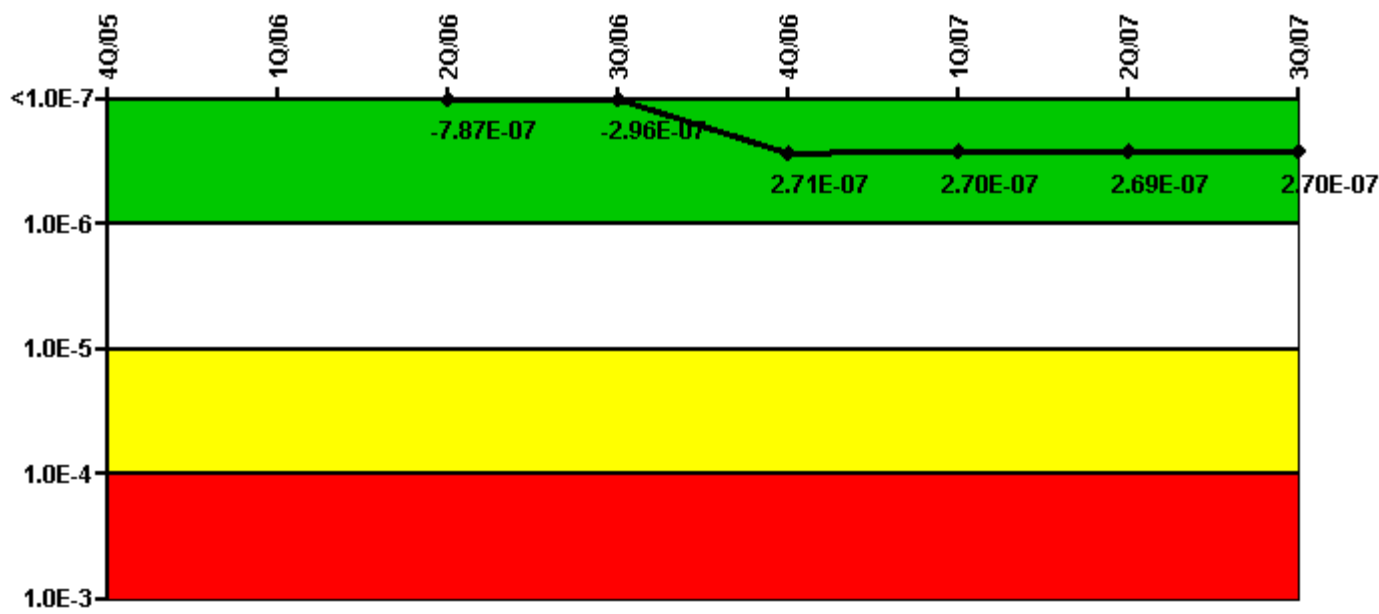
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			4.70E-07	2.10E-07	2.40E-07	1.30E-07	1.30E-07	1.30E-07
URI (ΔCDF)			2.80E-06	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			3.27E-06	-6.00E-08	-3.00E-08	-1.40E-07	-1.40E-07	-1.40E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



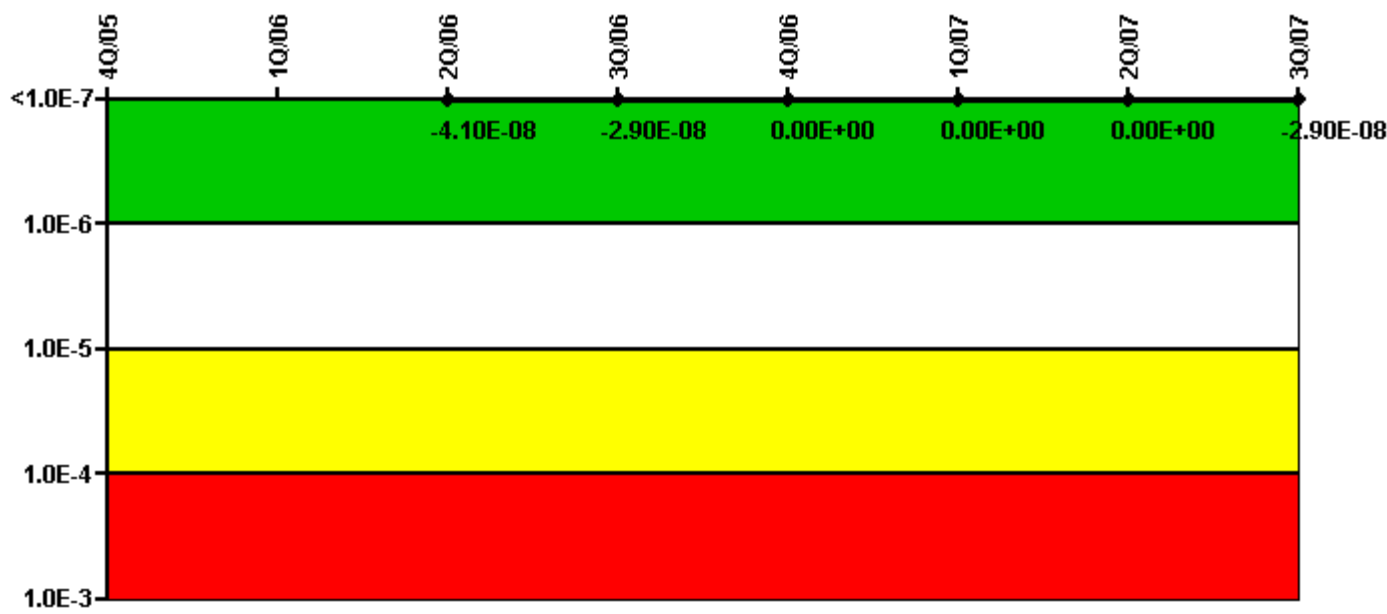
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			-4.70E-08	-1.60E-08	-9.10E-09	-1.00E-08	-1.10E-08	-9.80E-09
URI (ΔCDF)			-7.40E-07	-2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-7.87E-07	-2.96E-07	2.71E-07	2.70E-07	2.69E-07	2.70E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



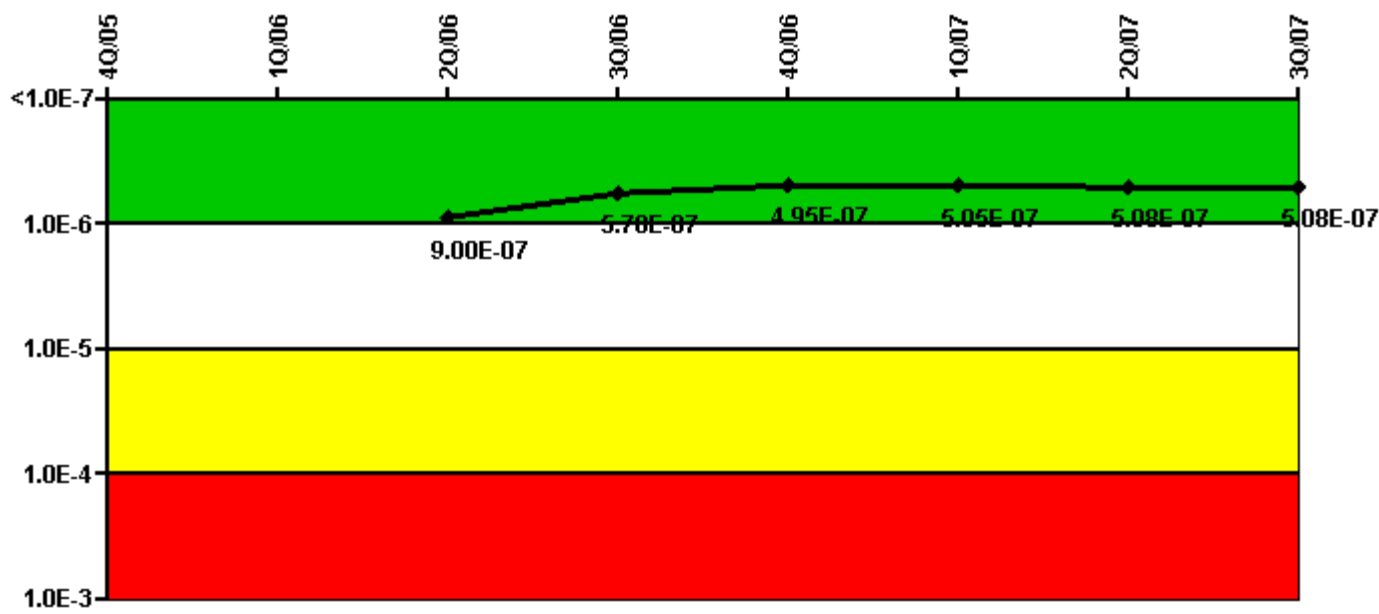
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			1.20E-08	1.10E-08	4.00E-08	4.00E-08	4.00E-08	1.10E-08
URI (ΔCDF)			-5.30E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-4.10E-08	-2.90E-08	0.00E+00	0.00E+00	0.00E+00	-2.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



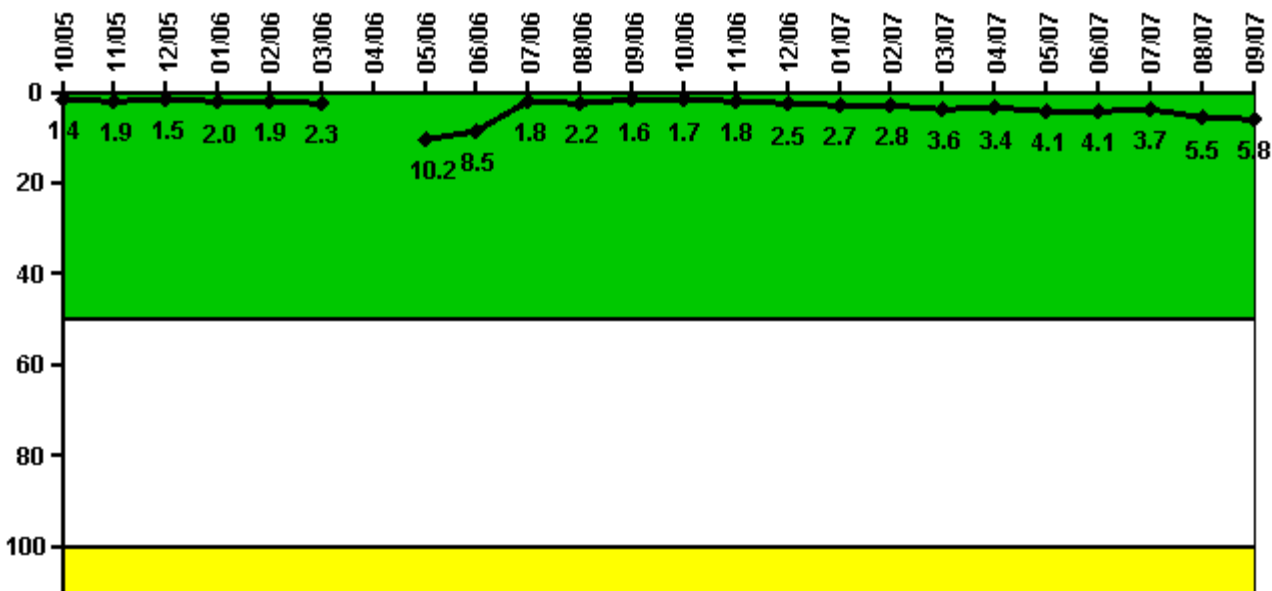
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			5.00E-08	1.00E-07	2.50E-08	2.50E-08	2.80E-08	2.80E-08
URI (ΔCDF)			8.50E-07	4.70E-07	4.70E-07	4.80E-07	4.80E-07	4.80E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			9.00E-07	5.70E-07	4.95E-07	5.05E-07	5.08E-07	5.08E-07

Licensee Comments: none

Reactor Coolant System Activity



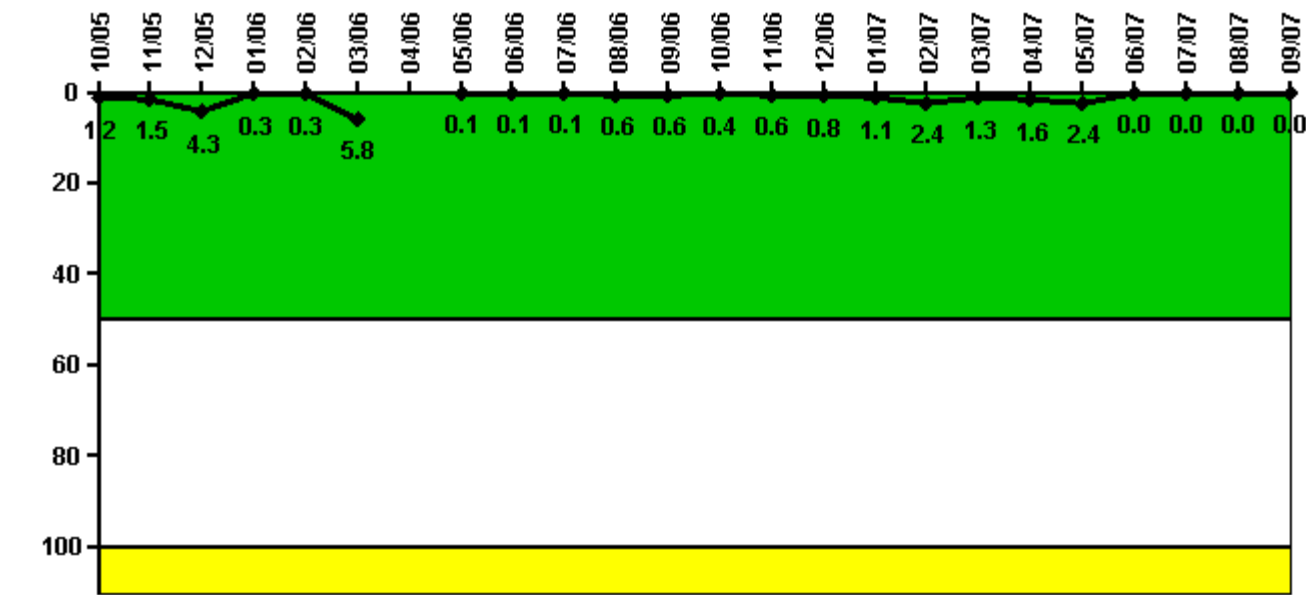
Thresholds: White > 50.0 Yellow > 100.0

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	0.013800	0.018600	0.014500	0.020000	0.019200	0.022700	N/A	0.102000	0.084600	0.018300	0.022200	0.015700
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.4	1.9	1.5	2.0	1.9	2.3	N/A	10.2	8.5	1.8	2.2	1.6
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	0.017400	0.017800	0.024900	0.027300	0.028200	0.036000	0.033800	0.040800	0.041000	0.037000	0.055400	0.058400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.7	1.8	2.5	2.7	2.8	3.6	3.4	4.1	4.1	3.7	5.5	5.8

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

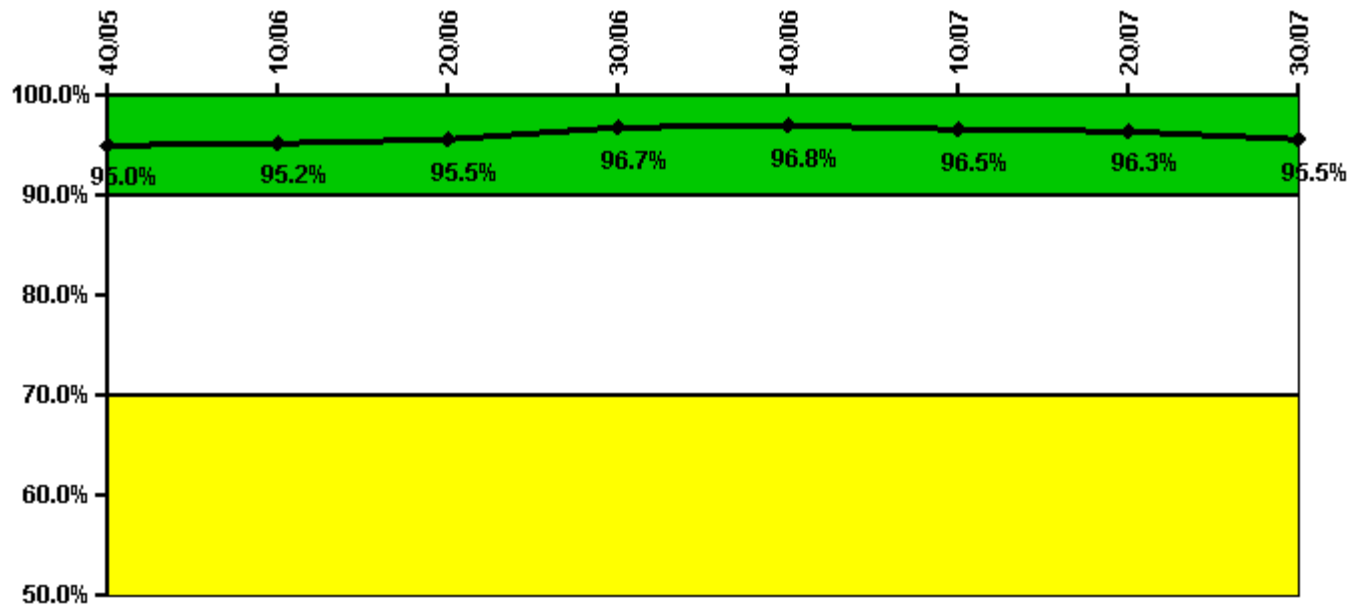
Notes

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	0.119	0.148	0.429	0.026	0.033	0.581	N/A	0.013	0.013	0.007	0.059	0.059
Technical specification limit	10.0	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	1.5	4.3	0.3	0.3	5.8	N/A	0.1	0.1	0.1	0.6	0.6

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	0.040	0.055	0.079	0.111	0.238	0.125	0.164	0.238	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.4	0.6	0.8	1.1	2.4	1.3	1.6	2.4	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

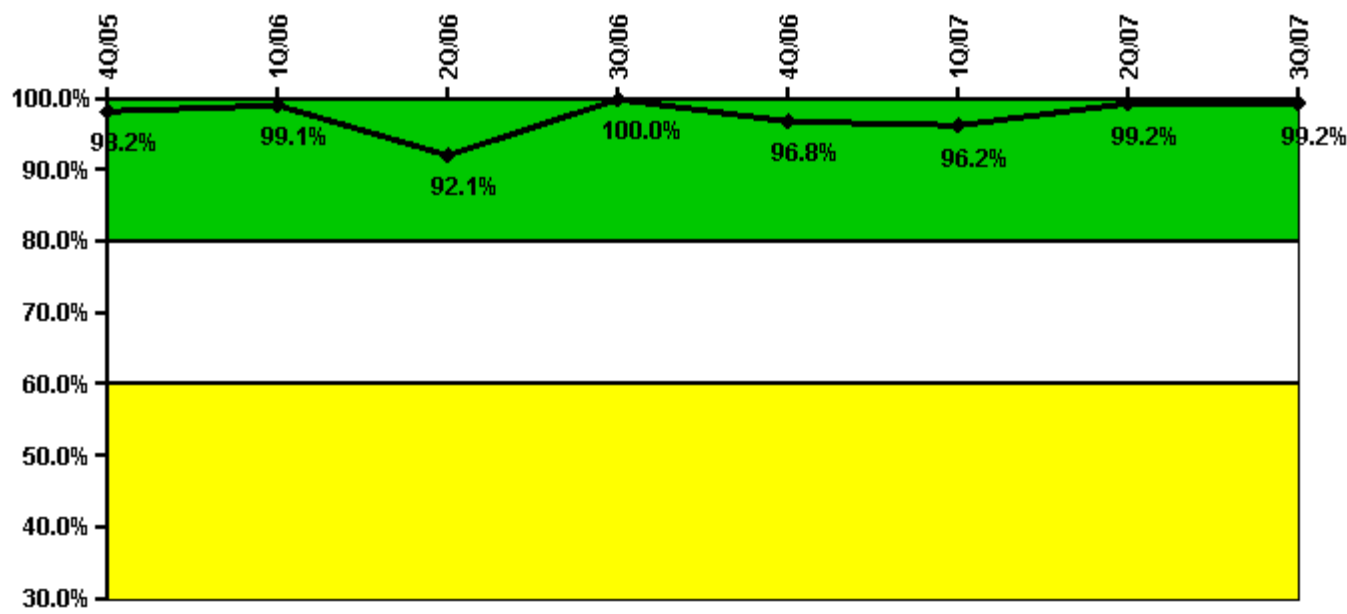
Notes

Drill/Exercise Performance	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful opportunities	12.0	96.0	36.0	40.0	25.0	18.0	28.0	22.0
Total opportunities	12.0	101.0	36.0	40.0	26.0	23.0	30.0	22.0
Indicator value	95.0%	95.2%	95.5%	96.7%	96.8%	96.5%	96.3%	95.5%

Licensee Comments:

1Q/07: The March 2007 number of drill, exercise and actual event opportunities performed timely and accurately during the reporting month been changed to 13 successes. The change resulted from an evaluation of results from a drill conducted on March 14, 2007. The evaluation determined that there was an inaccurate classification due to the Initiating Condition not met.

ERO Drill Participation



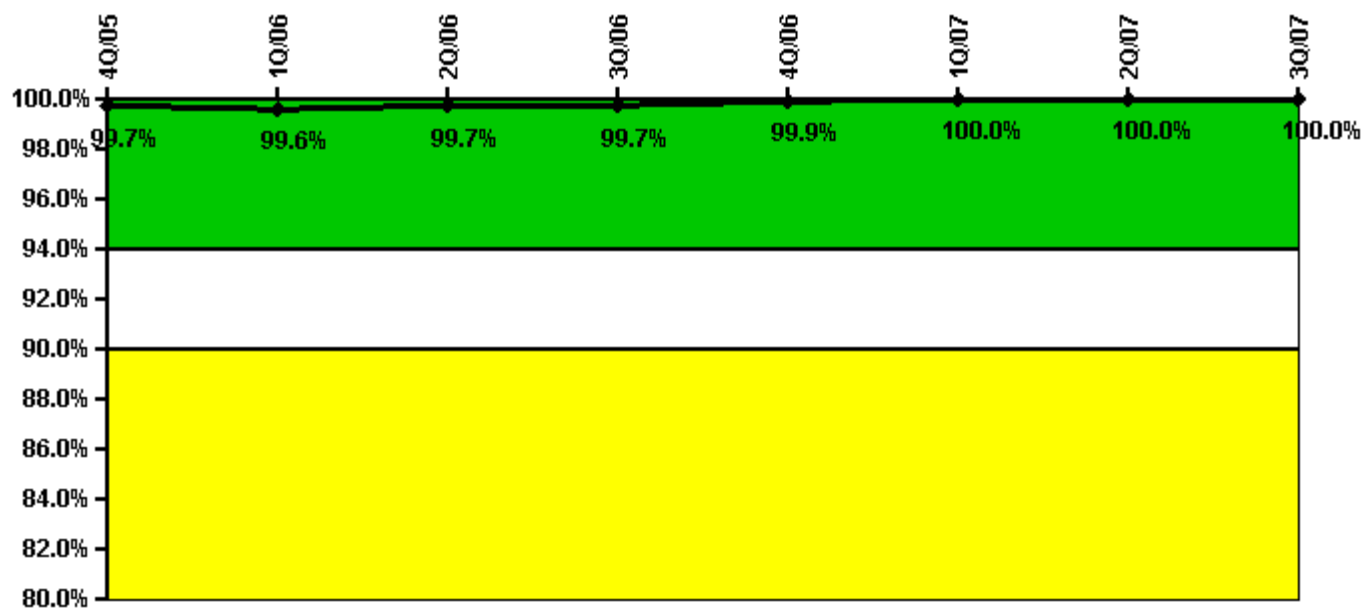
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Participating Key personnel	107.0	114.0	105.0	114.0	121.0	126.0	125.0	123.0
Total Key personnel	109.0	115.0	114.0	114.0	125.0	131.0	126.0	124.0
Indicator value	98.2%	99.1%	92.1%	100.0%	96.8%	96.2%	99.2%	99.2%

Licensee Comments: none

Alert & Notification System



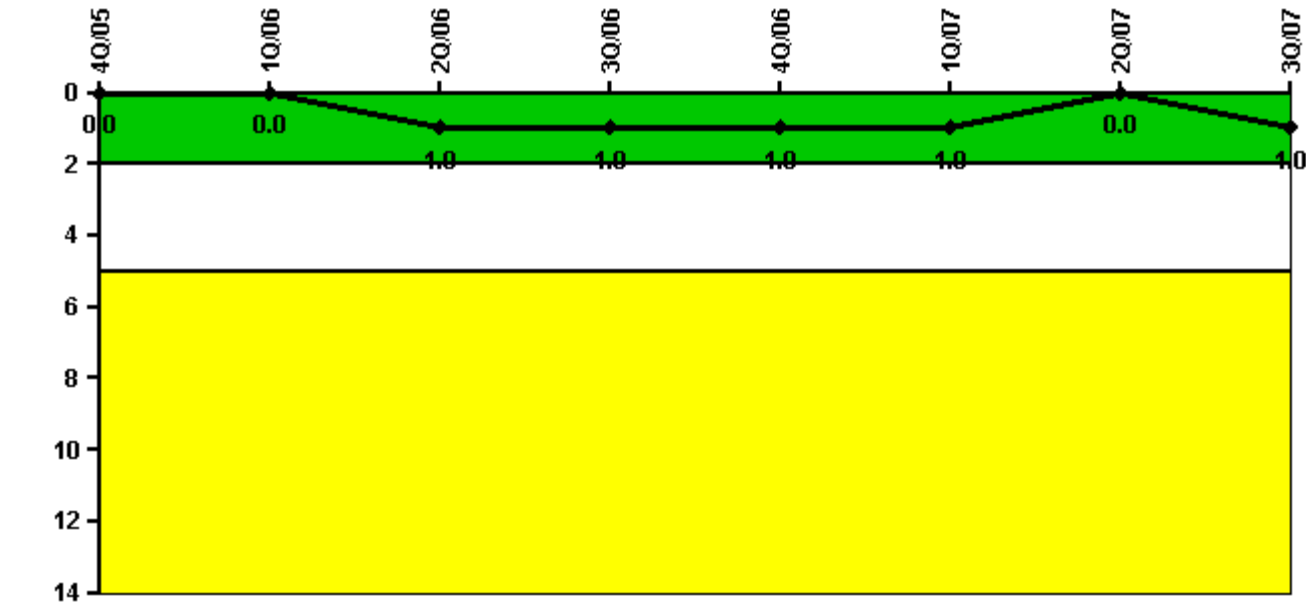
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful siren-tests	182	182	183	183	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.7%	99.6%	99.7%	99.7%	99.9%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



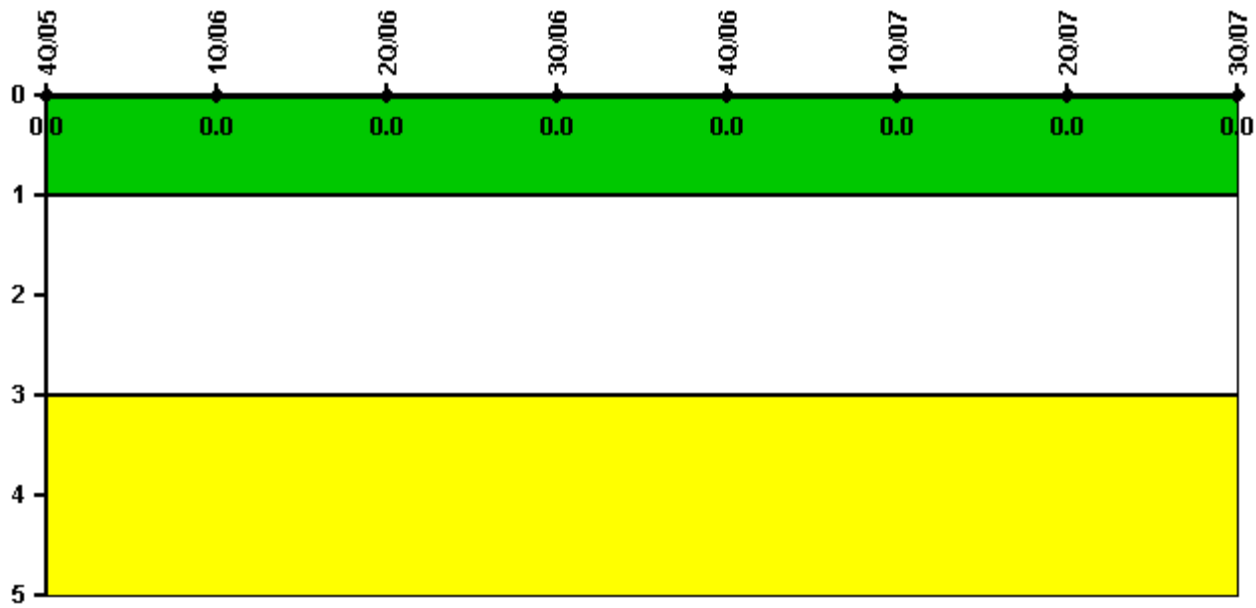
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

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

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

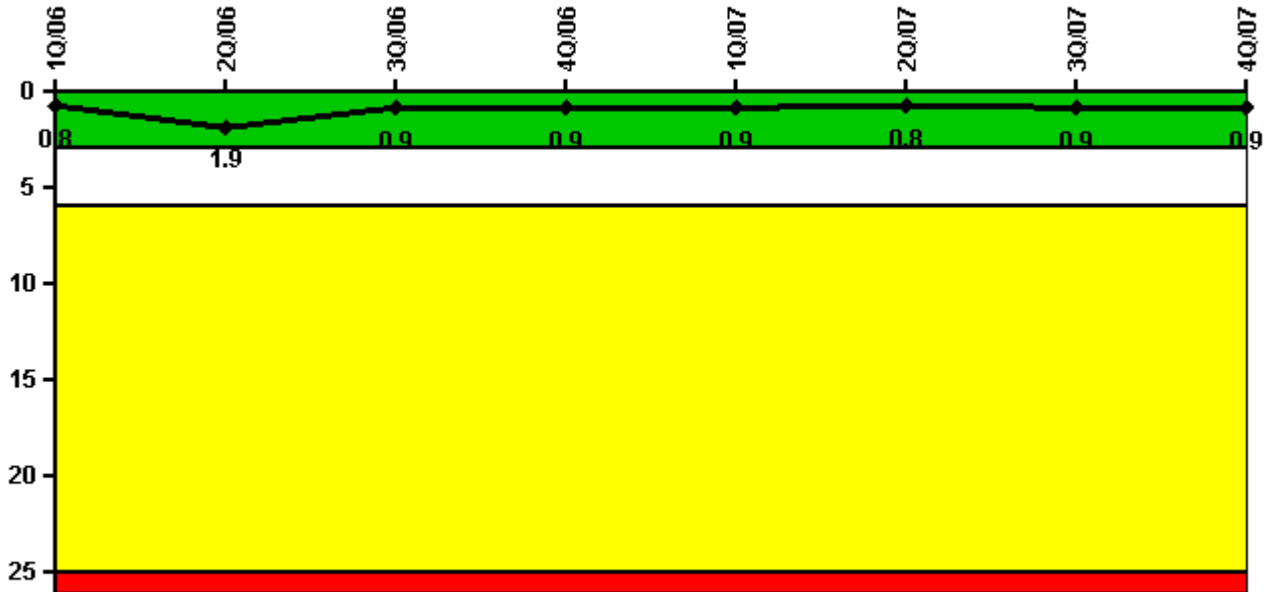
Last Modified: December 7, 2007

Palisades

4Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



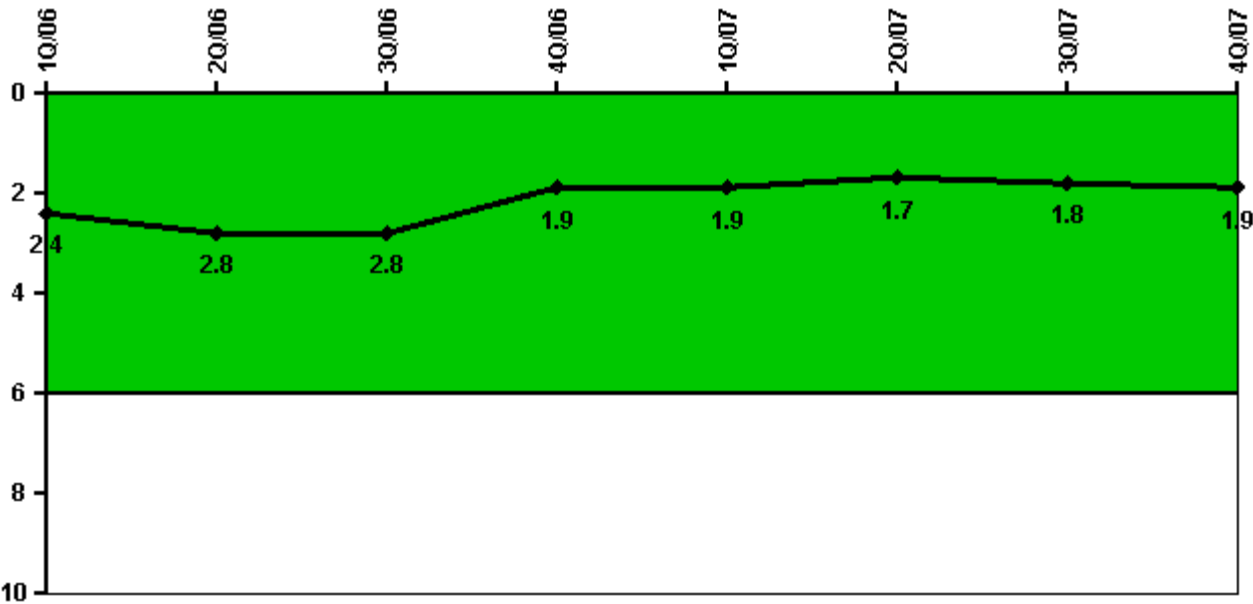
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	1.0	0	0
Critical hours	2035.3	1155.0	2208.0	2163.5	1987.0	2049.2	1691.0	1749.1
Indicator value	0.8	1.9	0.9	0.9	0.9	0.8	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



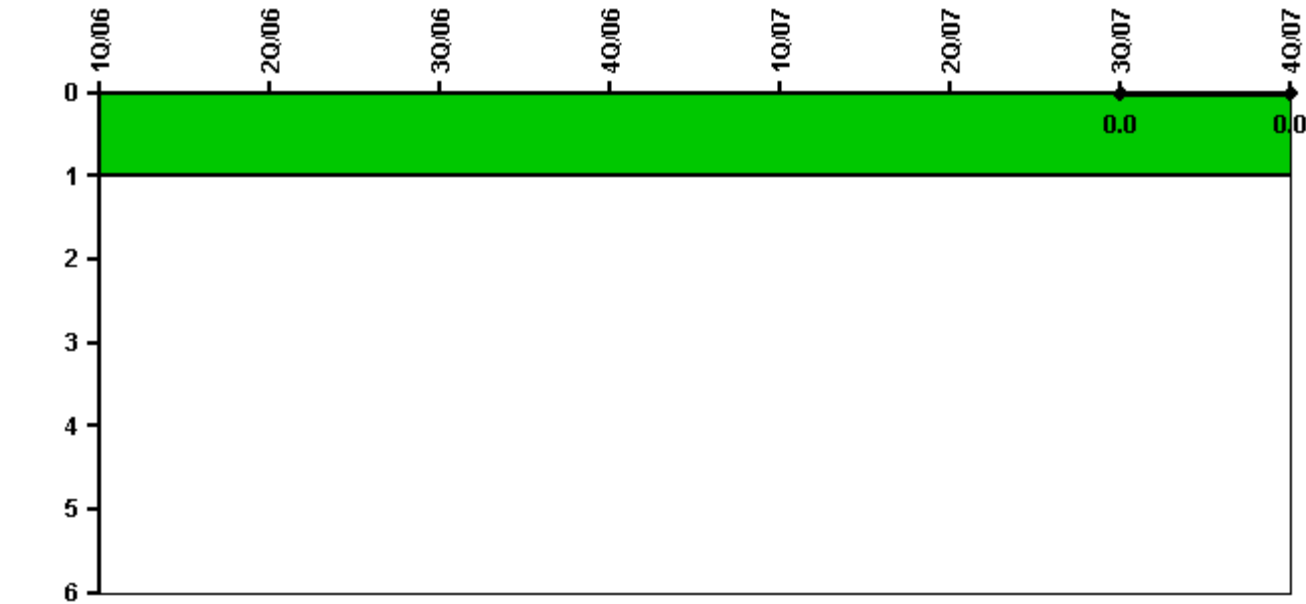
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned power changes	1.0	0	0	1.0	1.0	0	0	1.0
Critical hours	2035.3	1155.0	2208.0	2163.5	1987.0	2049.2	1691.0	1749.1
Indicator value	2.4	2.8	2.8	1.9	1.9	1.7	1.8	1.9

Licensee Comments: none

Unplanned Scrams with Complications



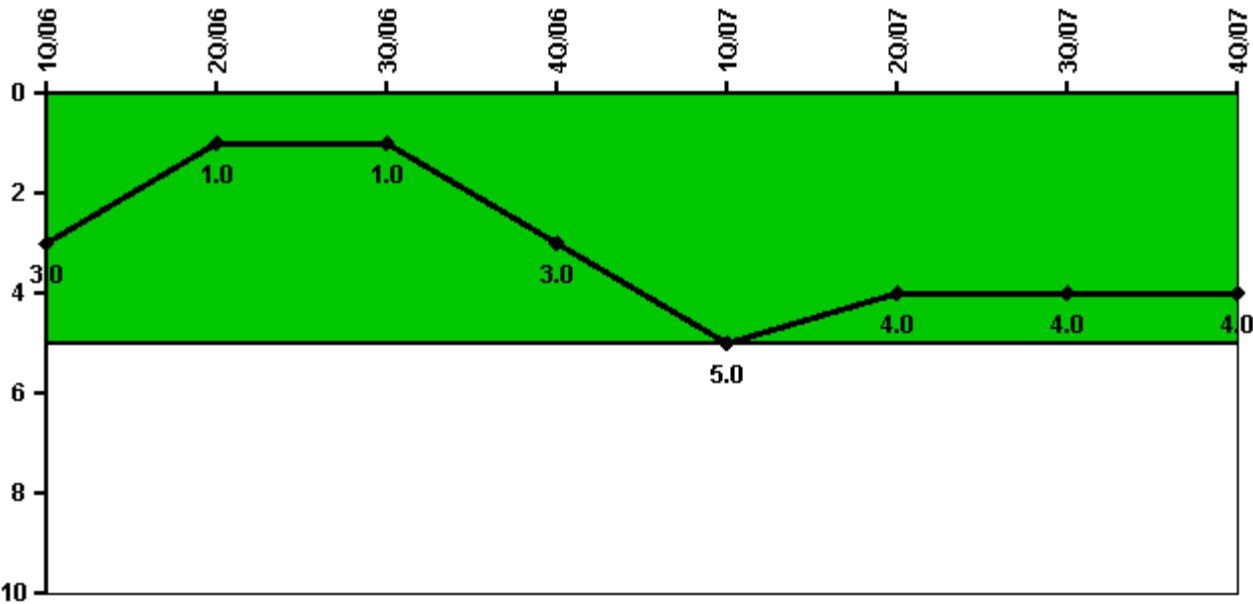
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

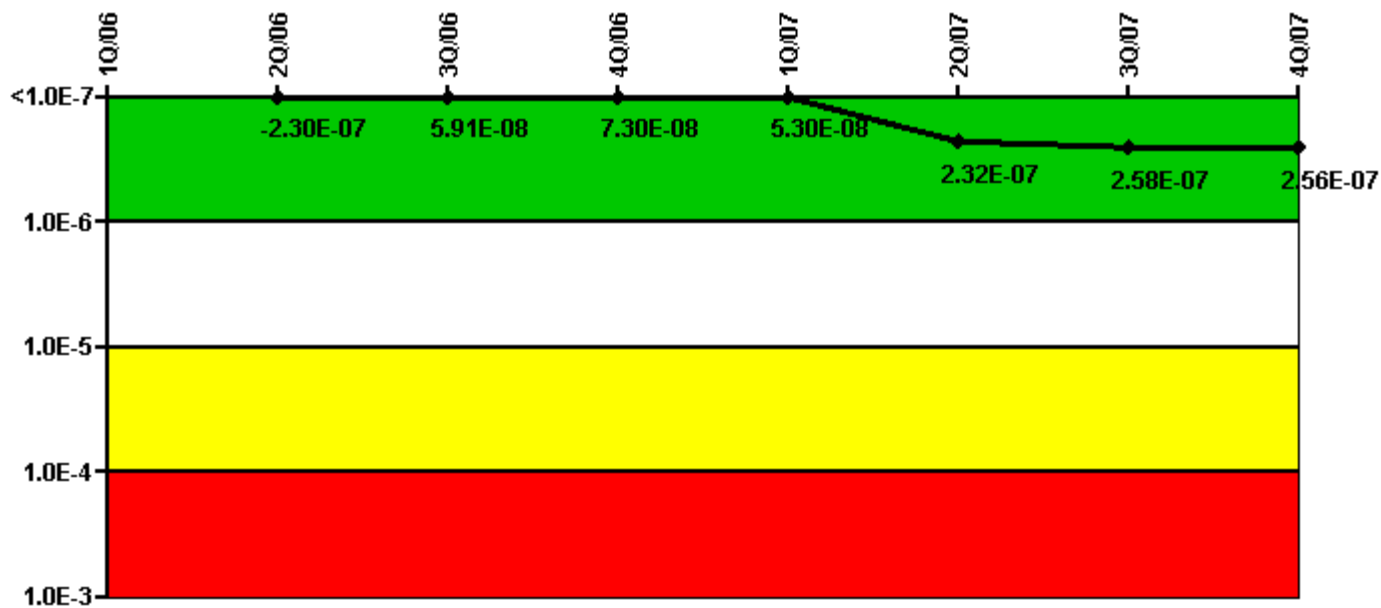
Notes

Safety System Functional Failures (PWR)	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Safety System Functional Failures	0	1	0	2	2	0	0	2
Indicator value	3	1	1	3	5	4	4	4

Licensee Comments:

4Q/07: LER 07-007, Fuel Handling Area Ventilation System Inoperable and LER 07-008, Aux FW Pump Inoperable in Excess of TS Requirements.

Mitigating Systems Performance Index, Emergency AC Power System



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

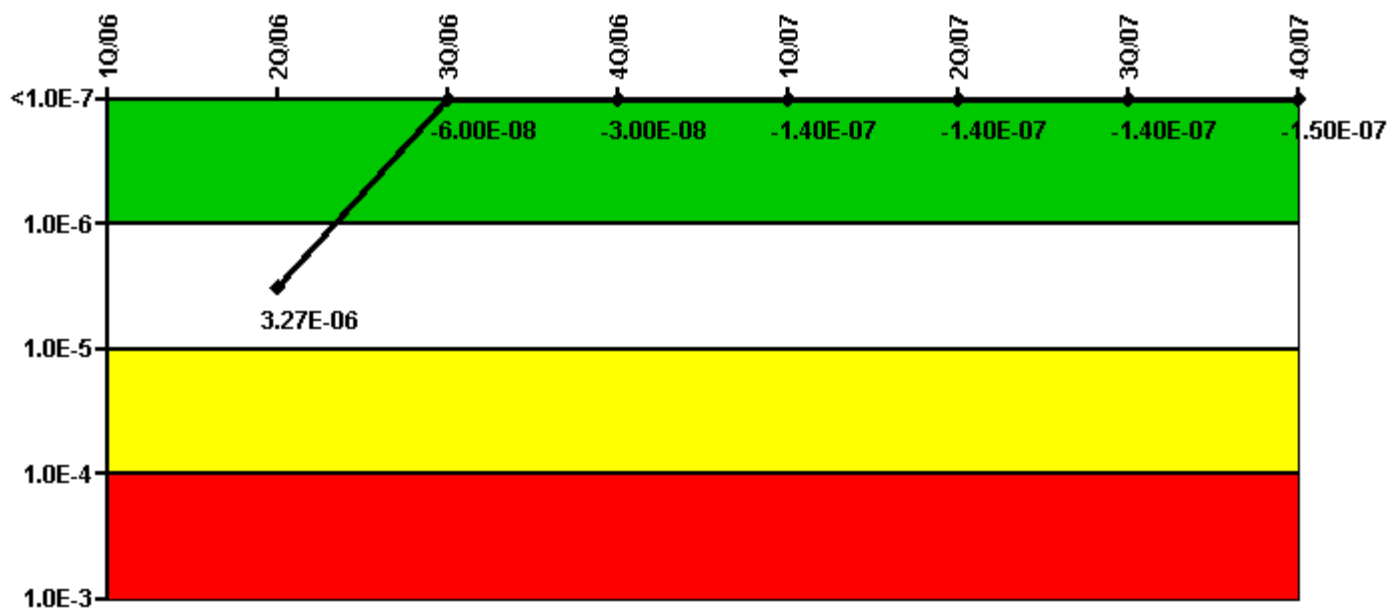
Notes

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 (ACDF)		2.20E-07	4.10E-09	1.80E-08	6.50E-08	8.20E-08	3.80E-08	3.60E-08
URI (ACDF)		-4.50E-07	5.50E-08	5.50E-08	-1.20E-08	1.50E-07	2.20E-07	2.20E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-2.30E-07	5.91E-08	7.30E-08	5.30E-08	2.32E-07	2.58E-07	2.56E-07

Licensee Comments:

4Q/07: Reevaluation of September 2007 MSPI Failure for EDG fuel oil leak is still pending.

Mitigating Systems Performance Index, High Pressure Injection System



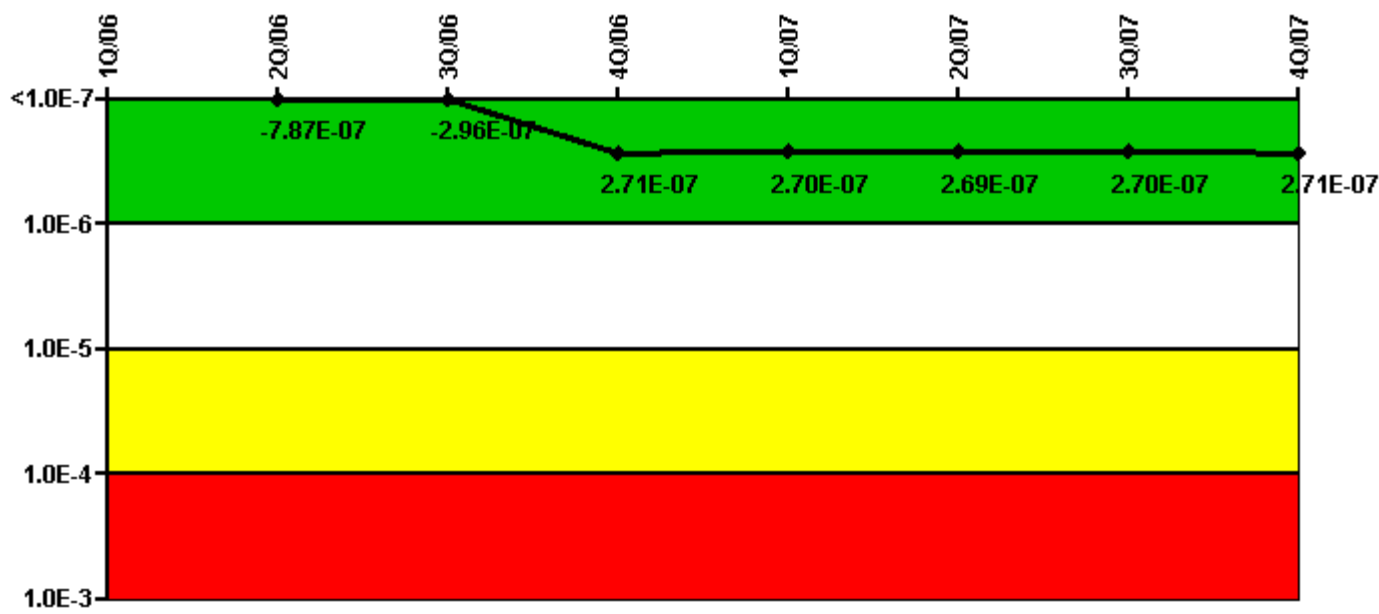
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (ΔCDF)		4.70E-07	2.10E-07	2.40E-07	1.30E-07	1.30E-07	1.30E-07	1.20E-07
URI (ΔCDF)		2.80E-06	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		3.27E-06	-6.00E-08	-3.00E-08	-1.40E-07	-1.40E-07	-1.40E-07	-1.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



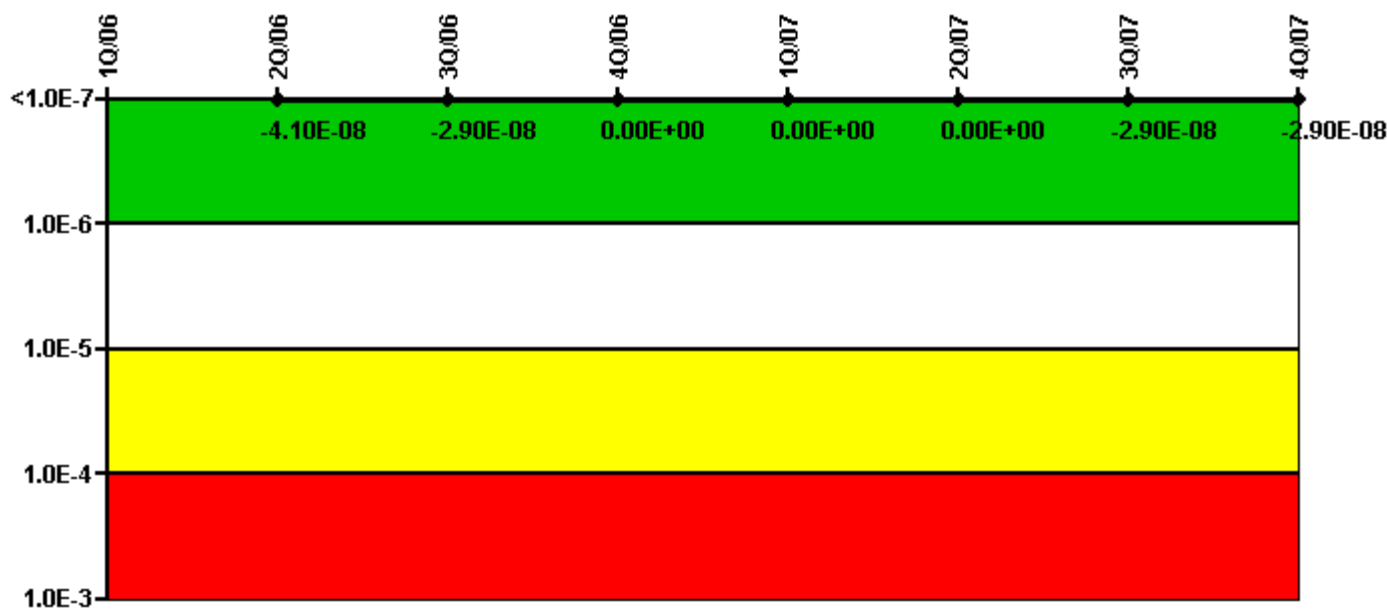
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (ΔCDF)		-4.70E-08	-1.60E-08	-9.10E-09	-1.00E-08	-1.10E-08	-9.80E-09	-8.90E-09
URI (ΔCDF)		-7.40E-07	-2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-7.87E-07	-2.96E-07	2.71E-07	2.70E-07	2.69E-07	2.70E-07	2.71E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



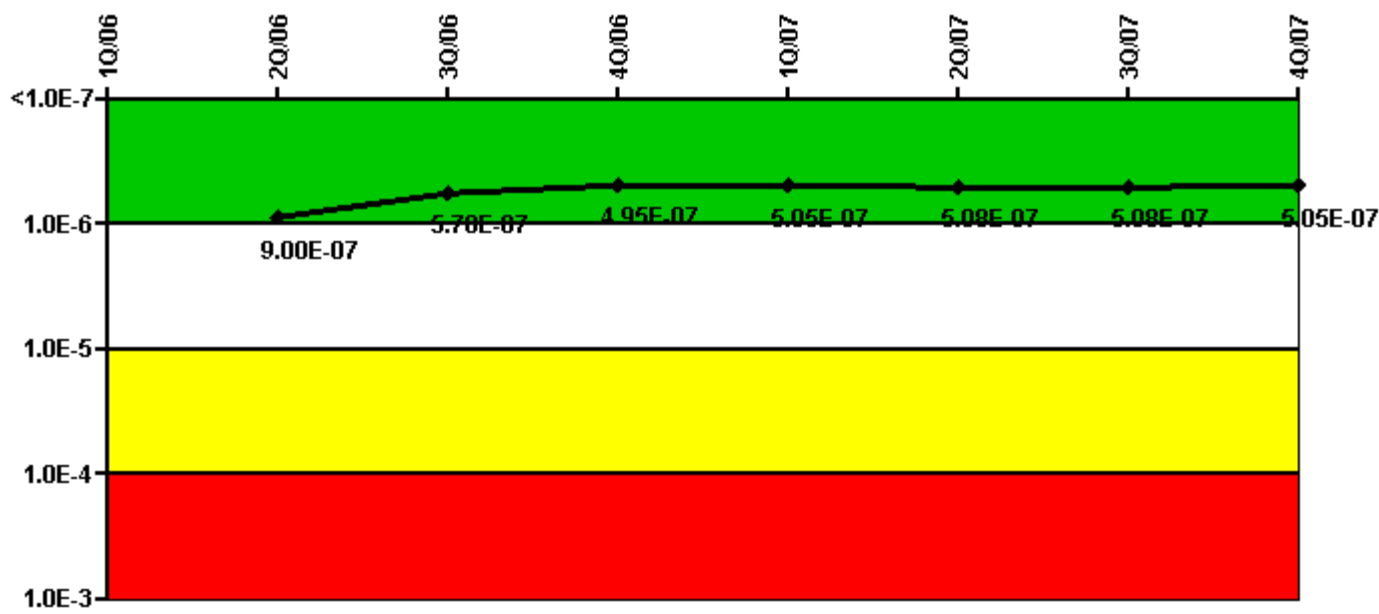
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (ACDF)		1.20E-08	1.10E-08	4.00E-08	4.00E-08	4.00E-08	1.10E-08	1.10E-08
URI (ACDF)		-5.30E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-4.10E-08	-2.90E-08	0.00E+00	0.00E+00	0.00E+00	-2.90E-08	-2.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



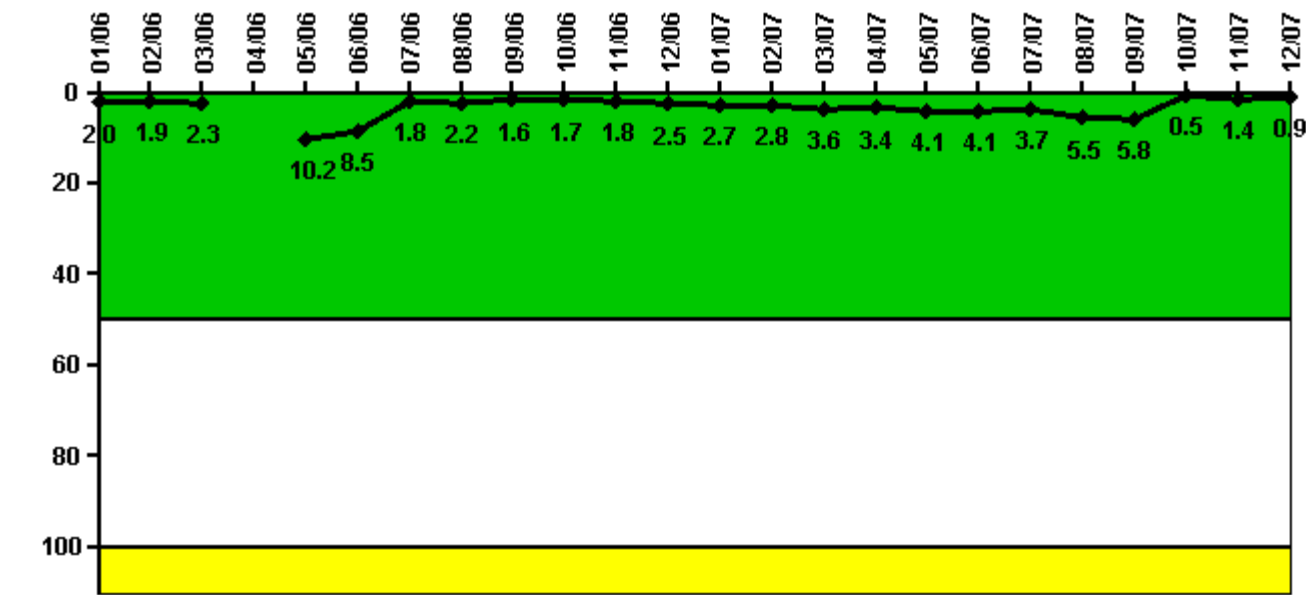
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (ΔCDF)		5.00E-08	1.00E-07	2.50E-08	2.50E-08	2.80E-08	2.80E-08	2.50E-08
URI (ΔCDF)		8.50E-07	4.70E-07	4.70E-07	4.80E-07	4.80E-07	4.80E-07	4.80E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		9.00E-07	5.70E-07	4.95E-07	5.05E-07	5.08E-07	5.08E-07	5.05E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

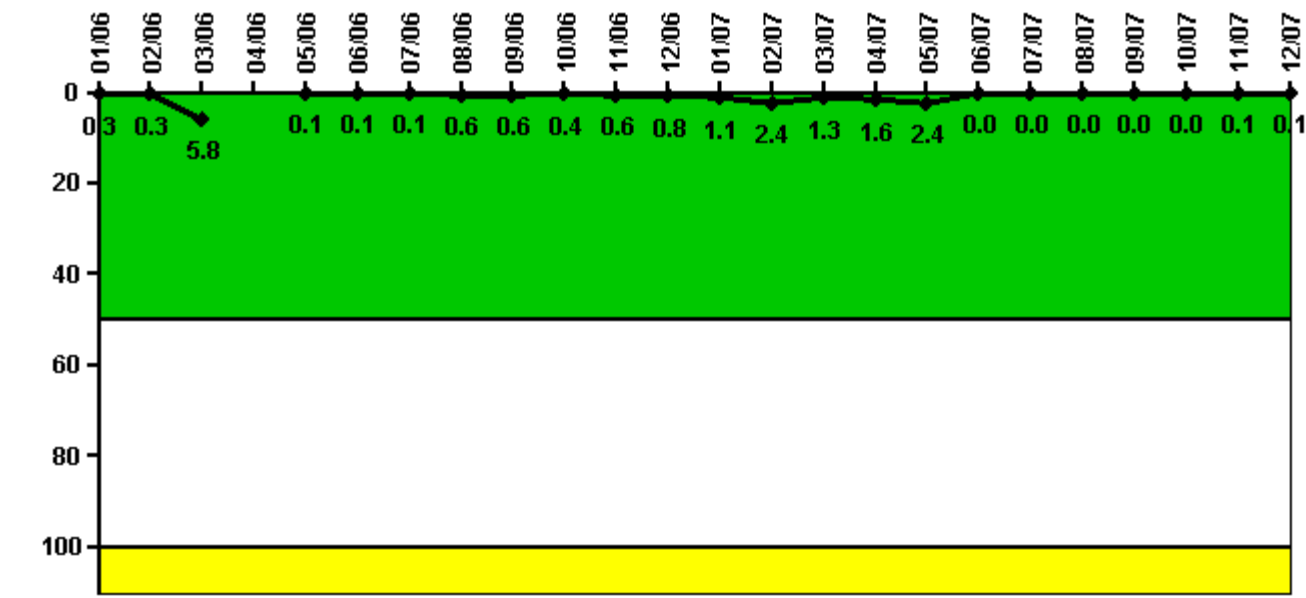
Notes

Reactor Coolant System Activity	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum activity	0.020000	0.019200	0.022700	N/A	0.102000	0.084600	0.018300	0.022200	0.015700	0.017400	0.017800	0.024900
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	2.0	1.9	2.3	N/A	10.2	8.5	1.8	2.2	1.6	1.7	1.8	2.5

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	0.027300	0.028200	0.036000	0.033800	0.040800	0.041000	0.037000	0.055400	0.058400	0.005210	0.013800	0.009210
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	2.7	2.8	3.6	3.4	4.1	4.1	3.7	5.5	5.8	0.5	1.4	0.9

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

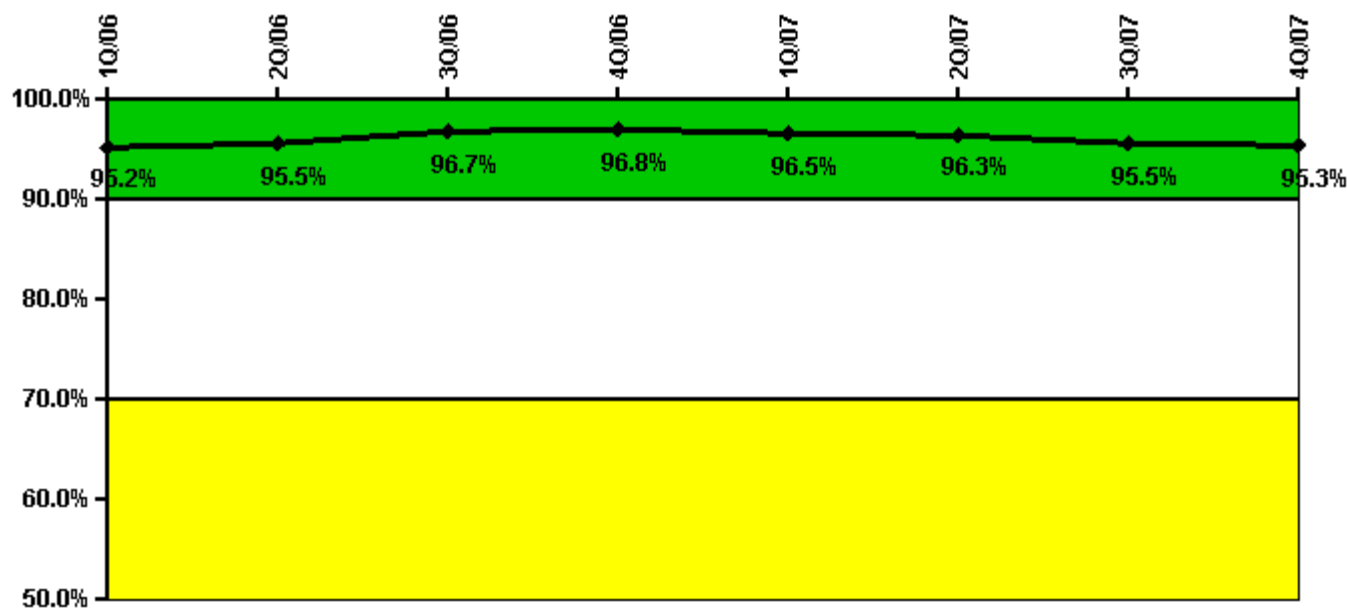
Notes

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	0.026	0.033	0.581	N/A	0.013	0.013	0.007	0.059	0.059	0.040	0.055	0.079
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.3	0.3	5.8	N/A	0.1	0.1	0.1	0.6	0.6	0.4	0.6	0.8

Reactor Coolant System Leakage	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum leakage	0.111	0.238	0.125	0.164	0.238	0.001	0.001	0.001	0.001	0.004	0.005	0.005
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.1	2.4	1.3	1.6	2.4	0	0	0	0	0	0.1	0.1

Licensee Comments: none

Drill/Exercise Performance



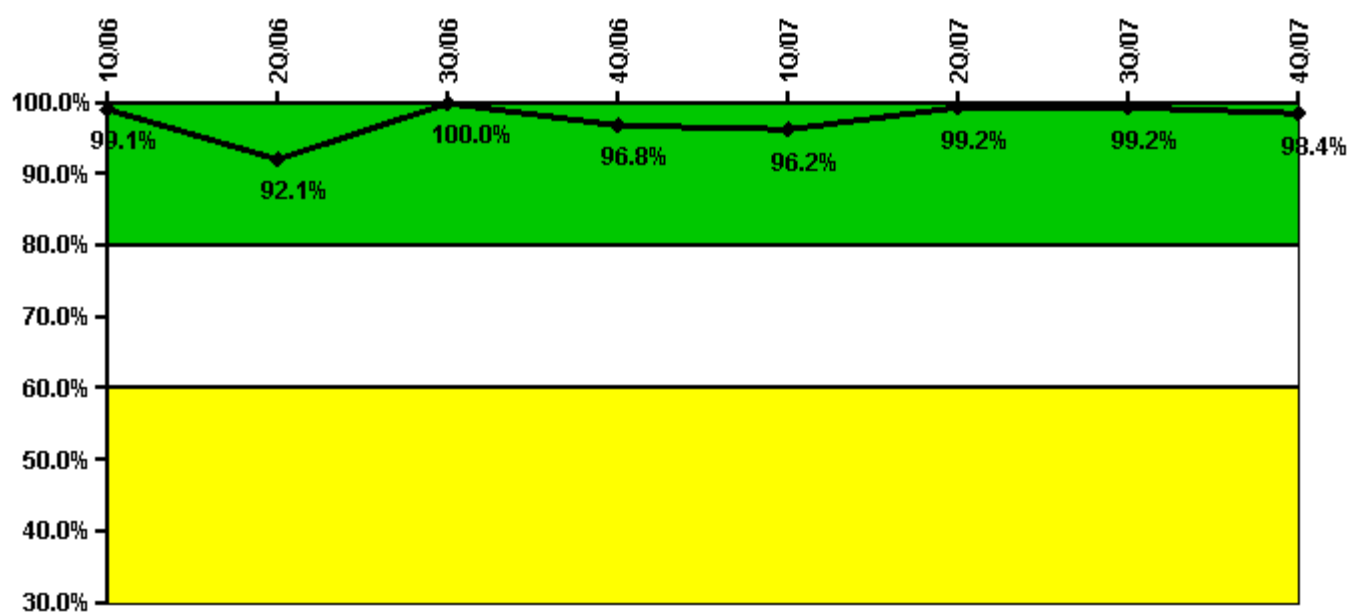
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful opportunities	96.0	36.0	40.0	25.0	18.0	28.0	22.0	19.0
Total opportunities	101.0	36.0	40.0	26.0	23.0	30.0	22.0	20.0
Indicator value	95.2%	95.5%	96.7%	96.8%	96.5%	96.3%	95.5%	95.3%

Licensee Comments: none

ERO Drill Participation



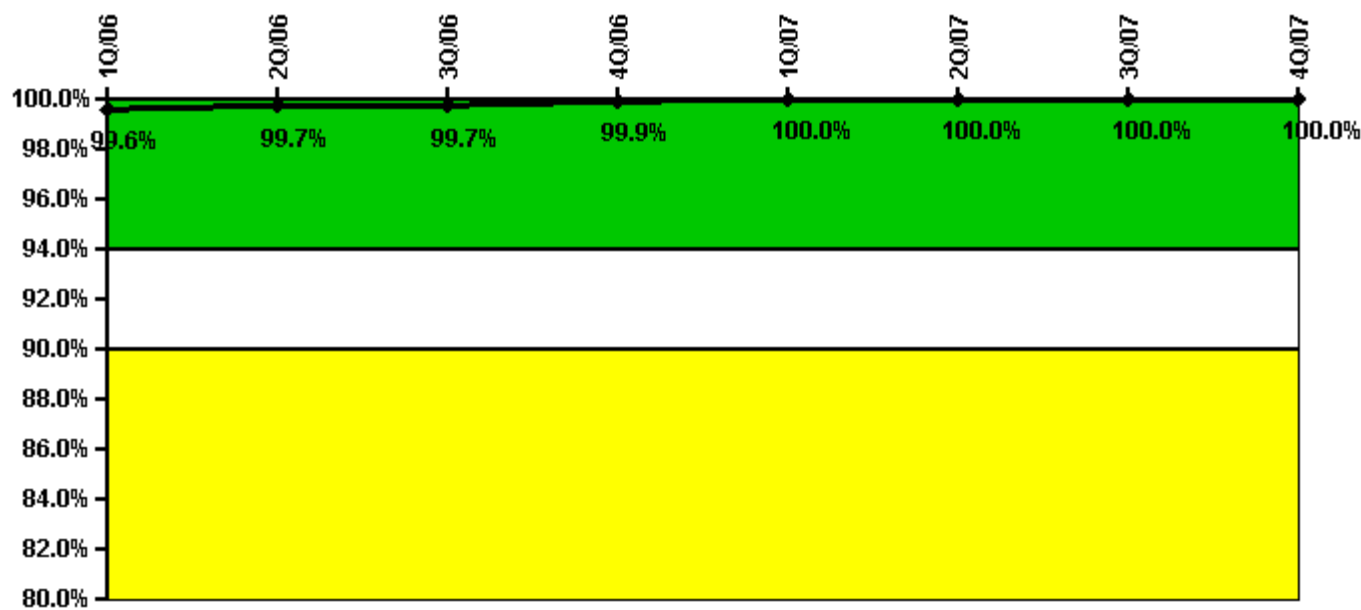
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Participating Key personnel	114.0	105.0	114.0	121.0	126.0	125.0	123.0	122.0
Total Key personnel	115.0	114.0	114.0	125.0	131.0	126.0	124.0	124.0
Indicator value	99.1%	92.1%	100.0%	96.8%	96.2%	99.2%	99.2%	98.4%

Licensee Comments: none

Alert & Notification System



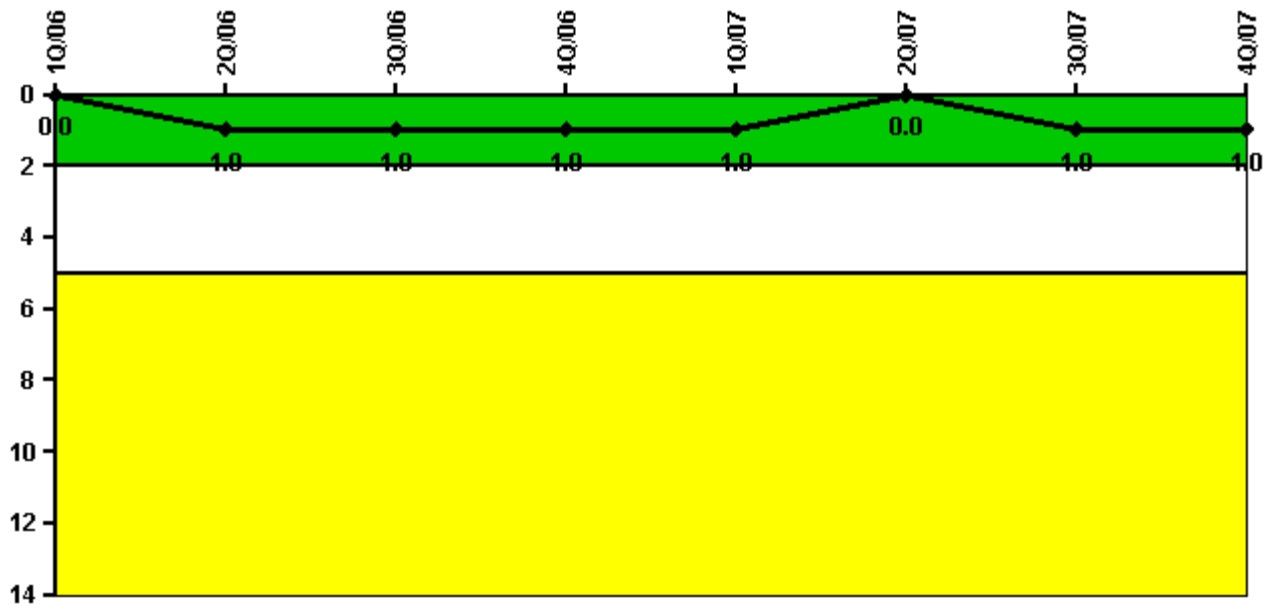
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful siren-tests	182	183	183	183	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.6%	99.7%	99.7%	99.9%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



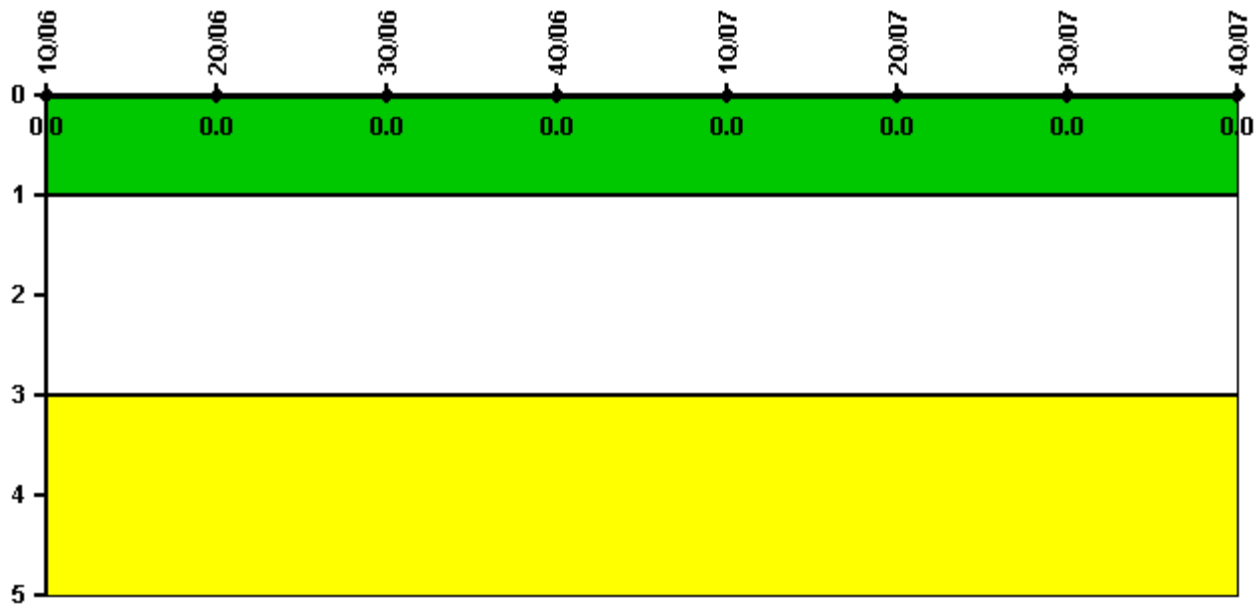
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

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

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

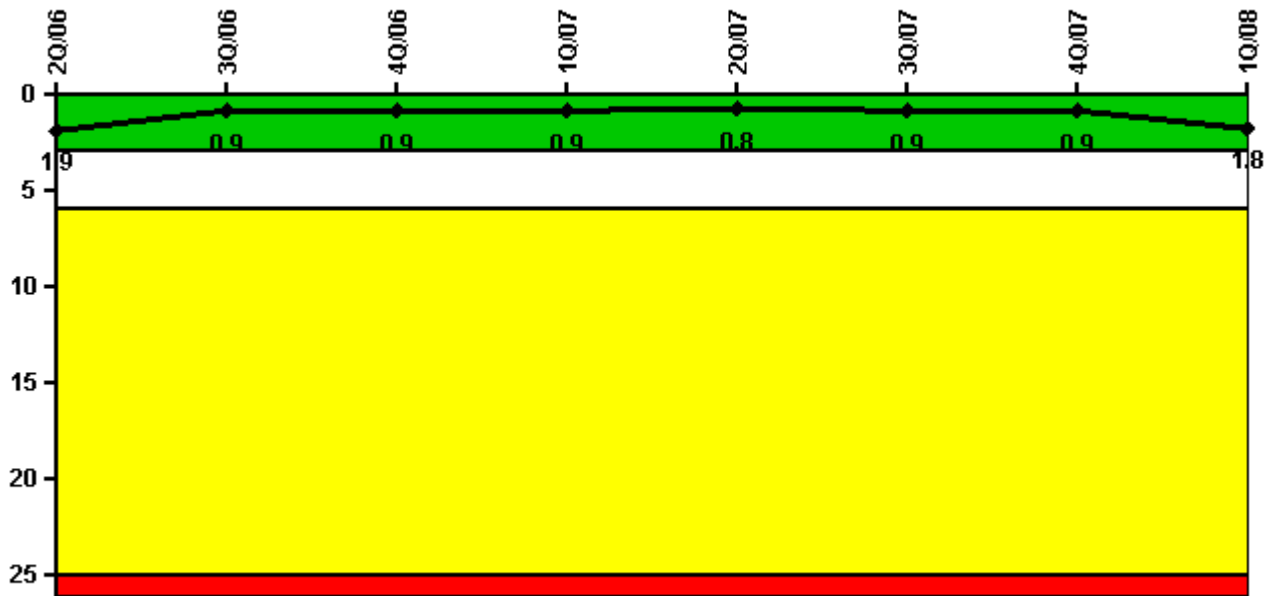
Last Modified: February 4, 2008

Palisades

1Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



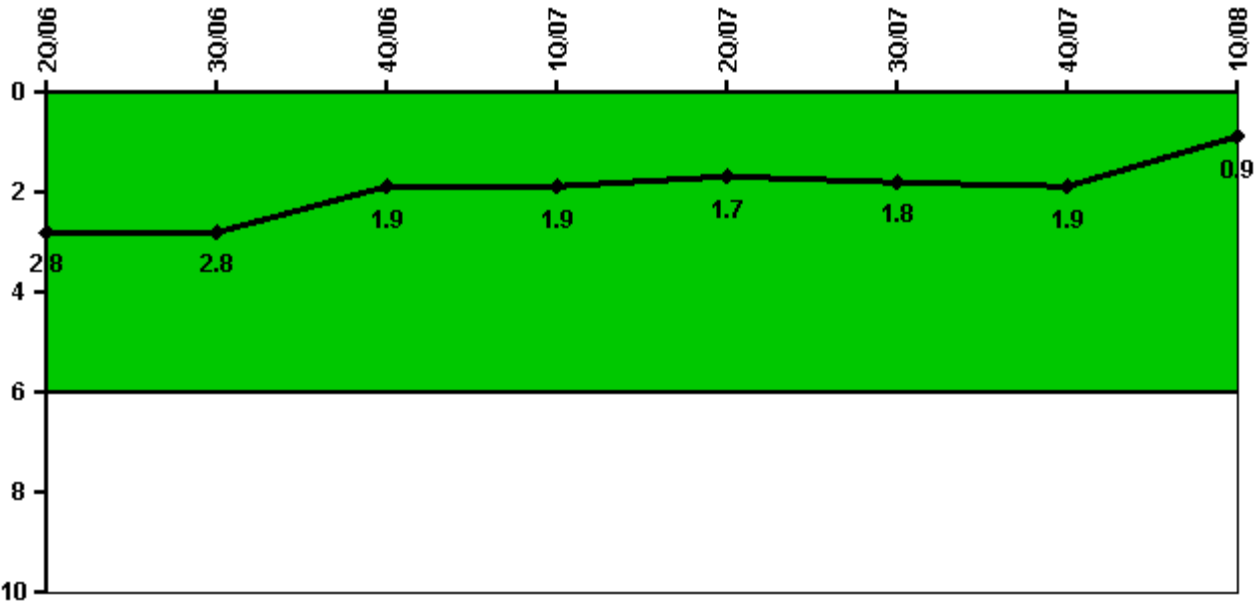
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	1.0	0	0	1.0
Critical hours	1155.0	2208.0	2163.5	1987.0	2049.2	1691.0	1749.1	2148.2
Indicator value	1.9	0.9	0.9	0.9	0.8	0.9	0.9	1.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



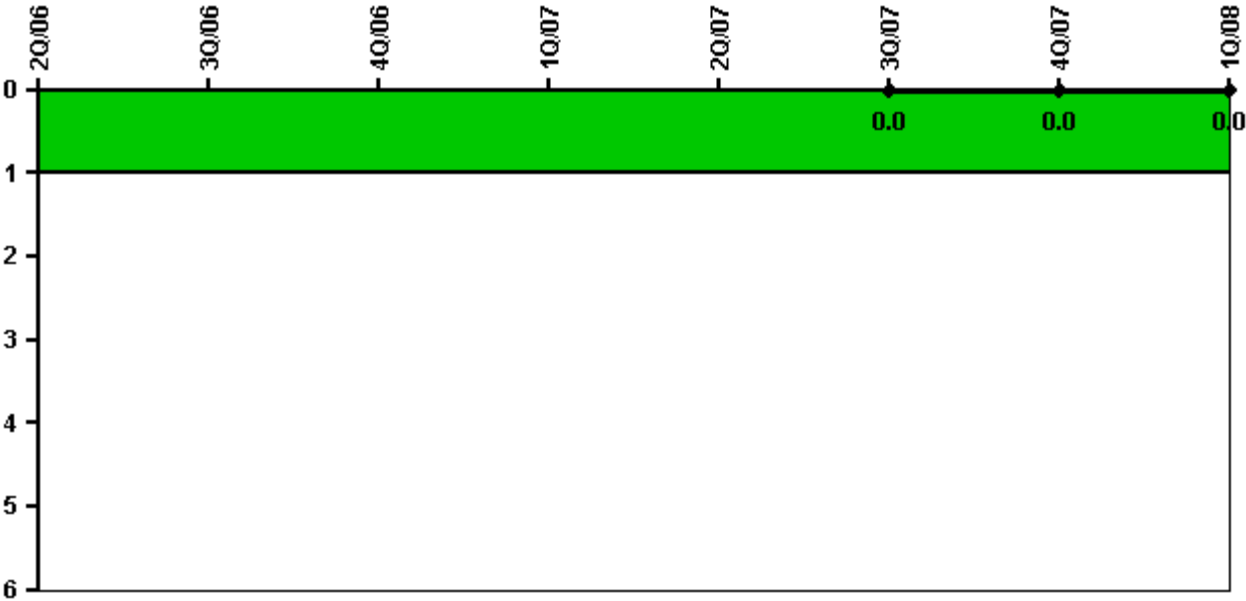
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned power changes	0	0	1.0	1.0	0	0	1.0	0
Critical hours	1155.0	2208.0	2163.5	1987.0	2049.2	1691.0	1749.1	2148.2
Indicator value	2.8	2.8	1.9	1.9	1.7	1.8	1.9	0.9

Licensee Comments: none

Unplanned Scrams with Complications



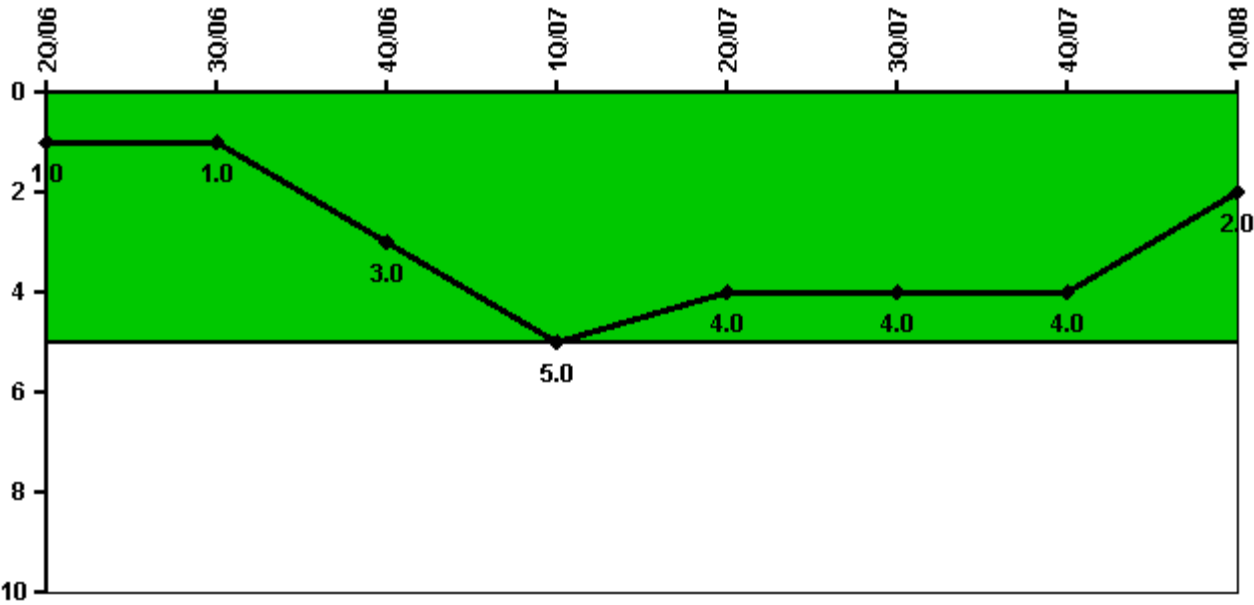
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



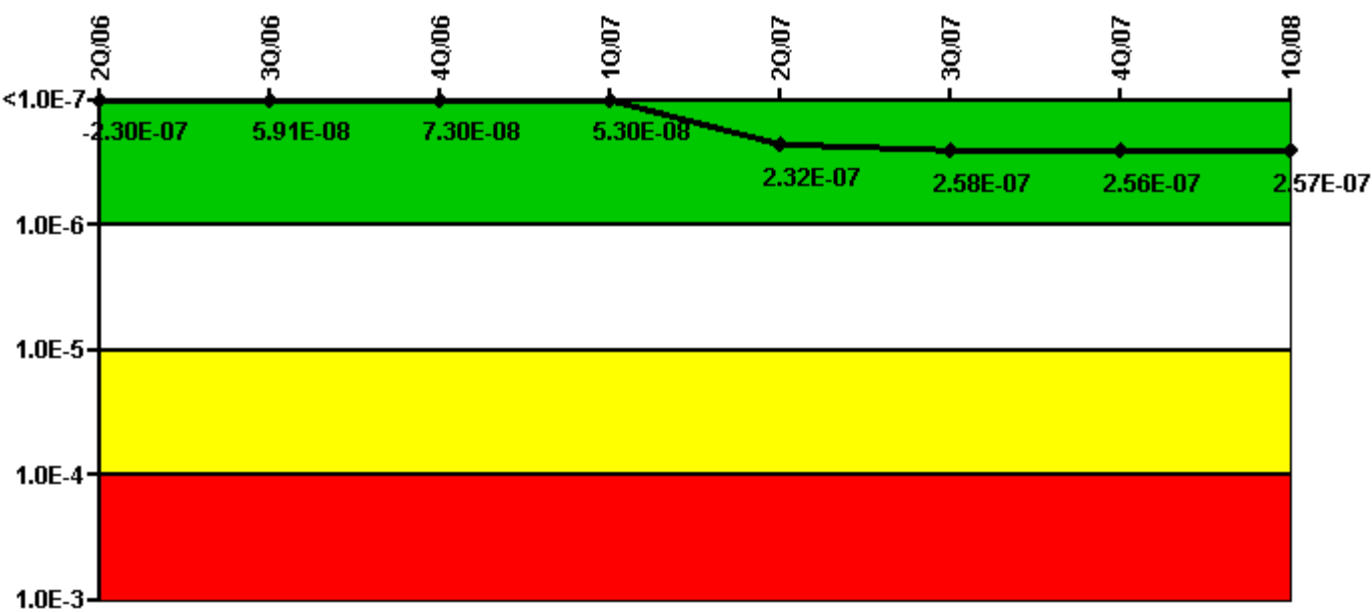
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Safety System Functional Failures	1	0	2	2	0	0	2	0
Indicator value	1	1	3	5	4	4	4	2

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

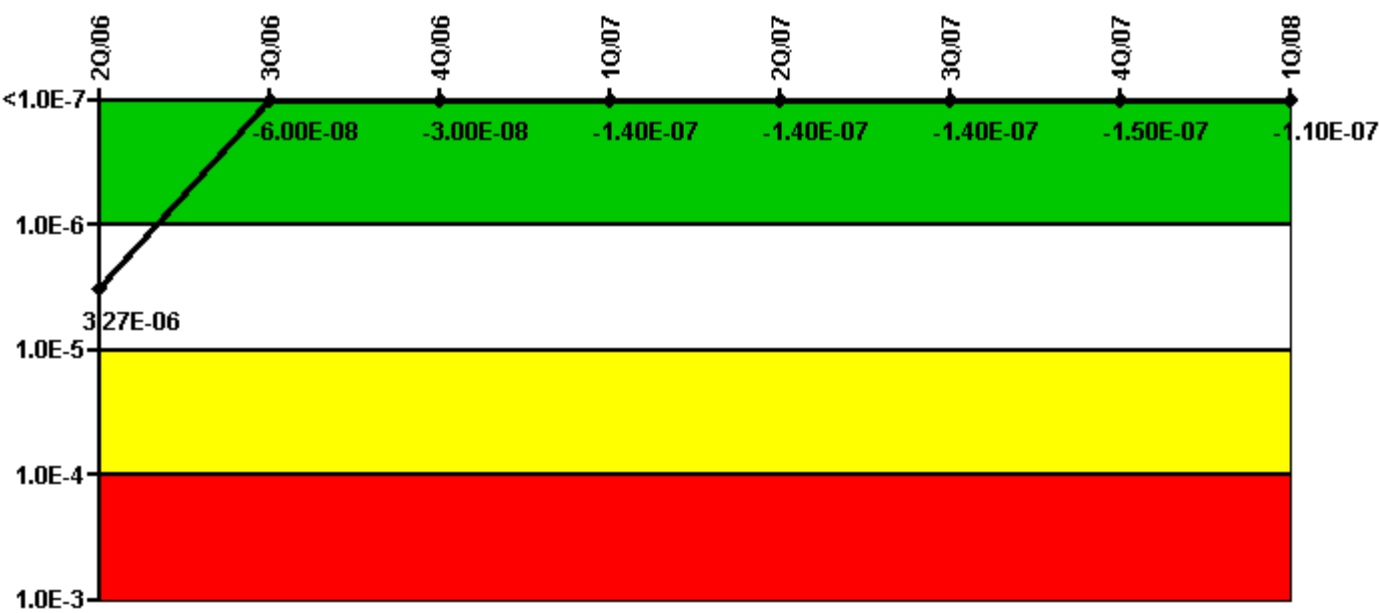
Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	2.20E-07	4.10E-09	1.80E-08	6.50E-08	8.20E-08	3.80E-08	3.60E-08	3.70E-08
URI (ΔCDF)	-4.50E-07	5.50E-08	5.50E-08	-1.20E-08	1.50E-07	2.20E-07	2.20E-07	2.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-07	5.91E-08	7.30E-08	5.30E-08	2.32E-07	2.58E-07	2.56E-07	2.57E-07

Licensee Comments:

1Q/08: Reevaluation of September 2007 MSPI Failure for EDG 1-1 fuel oil leak is still pending (Reference CR-PLP-2007-04078).

Mitigating Systems Performance Index, High Pressure Injection System



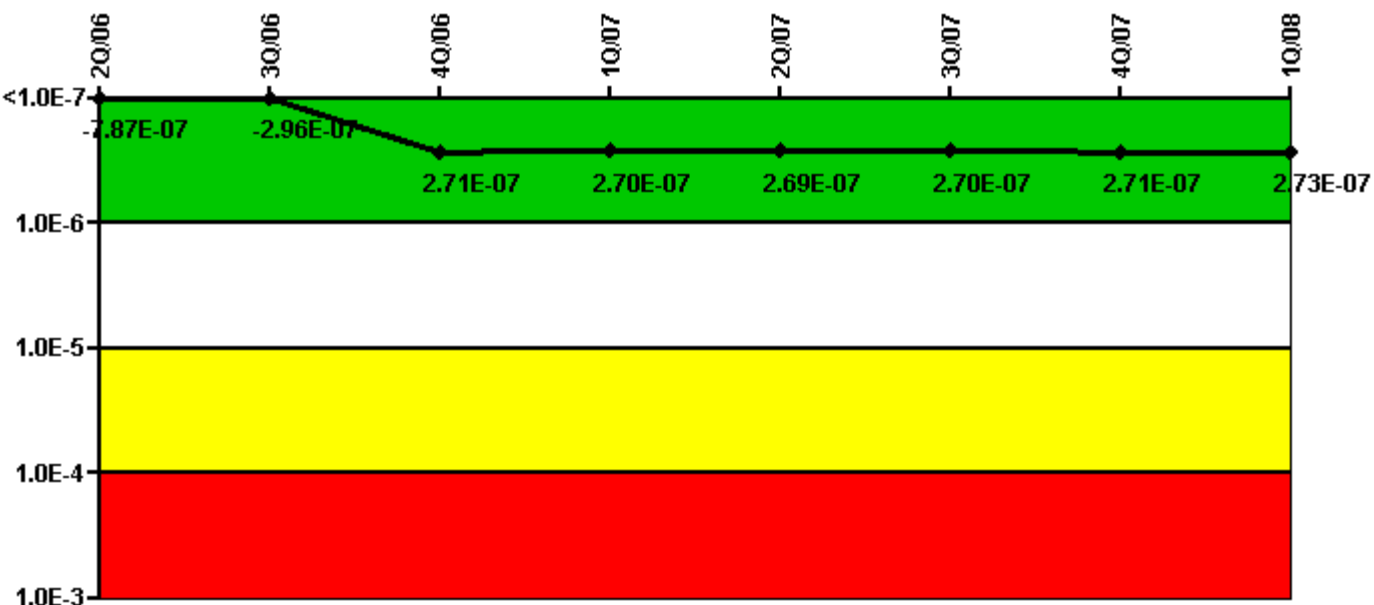
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	4.70E-07	2.10E-07	2.40E-07	1.30E-07	1.30E-07	1.30E-07	1.20E-07	1.60E-07
URI (ΔCDF)	2.80E-06	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.27E-06	-6.00E-08	-3.00E-08	-1.40E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.10E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



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

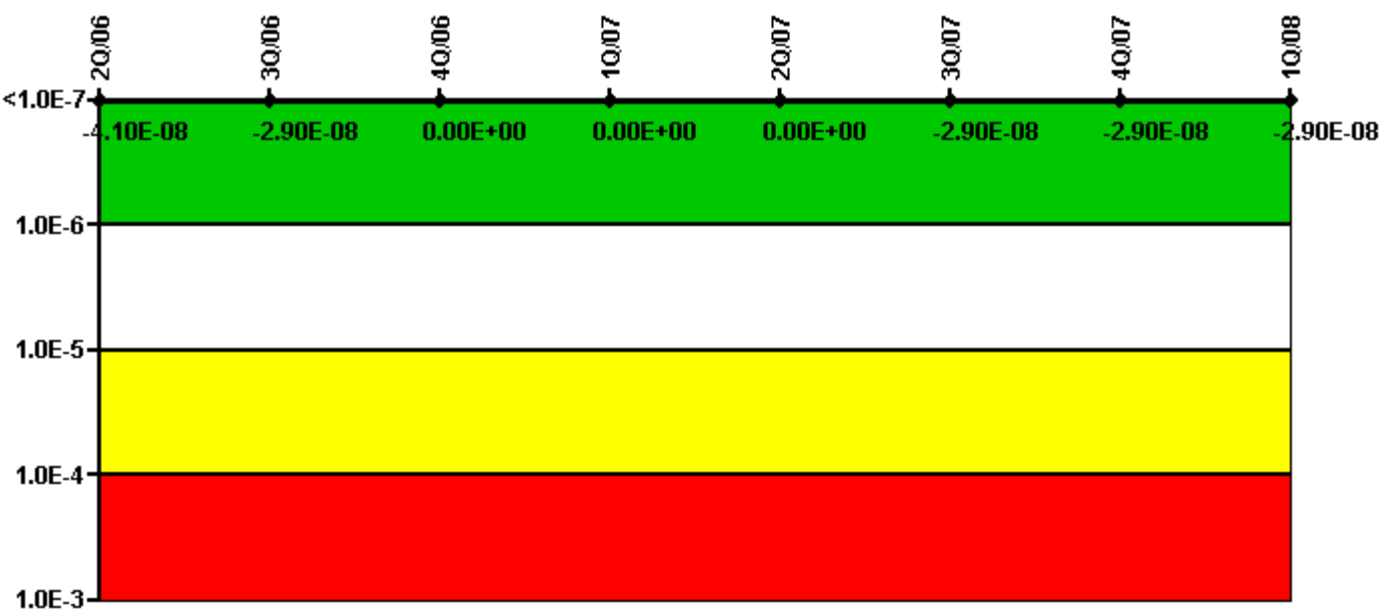
Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (Δ CDF)	-4.70E-08	-1.60E-08	-9.10E-09	-1.00E-08	-1.10E-08	-9.80E-09	-8.90E-09	-6.60E-09
URI (Δ CDF)	-7.40E-07	-2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.87E-07	-2.96E-07	2.71E-07	2.70E-07	2.69E-07	2.70E-07	2.71E-07	2.73E-07

Licensee Comments:

1Q/08: Evaluation is pending on relay testing results for Breaker 152-209 associated with Auxiliary Feedwater Pump P-8C. (Reference CR-PLP-2008-01473).

Mitigating Systems Performance Index, Residual Heat Removal System



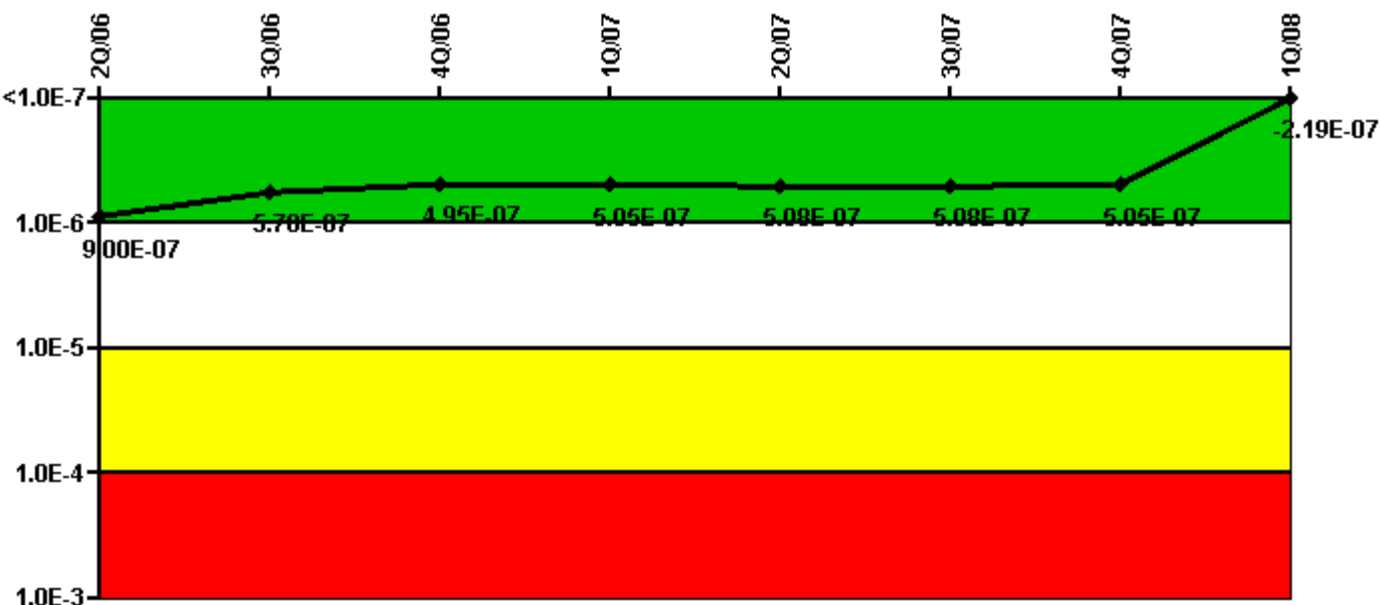
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	1.20E-08	1.10E-08	4.00E-08	4.00E-08	4.00E-08	1.10E-08	1.10E-08	1.10E-08
URI (ΔCDF)	-5.30E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.10E-08	-2.90E-08	0.00E+00	0.00E+00	0.00E+00	-2.90E-08	-2.90E-08	-2.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

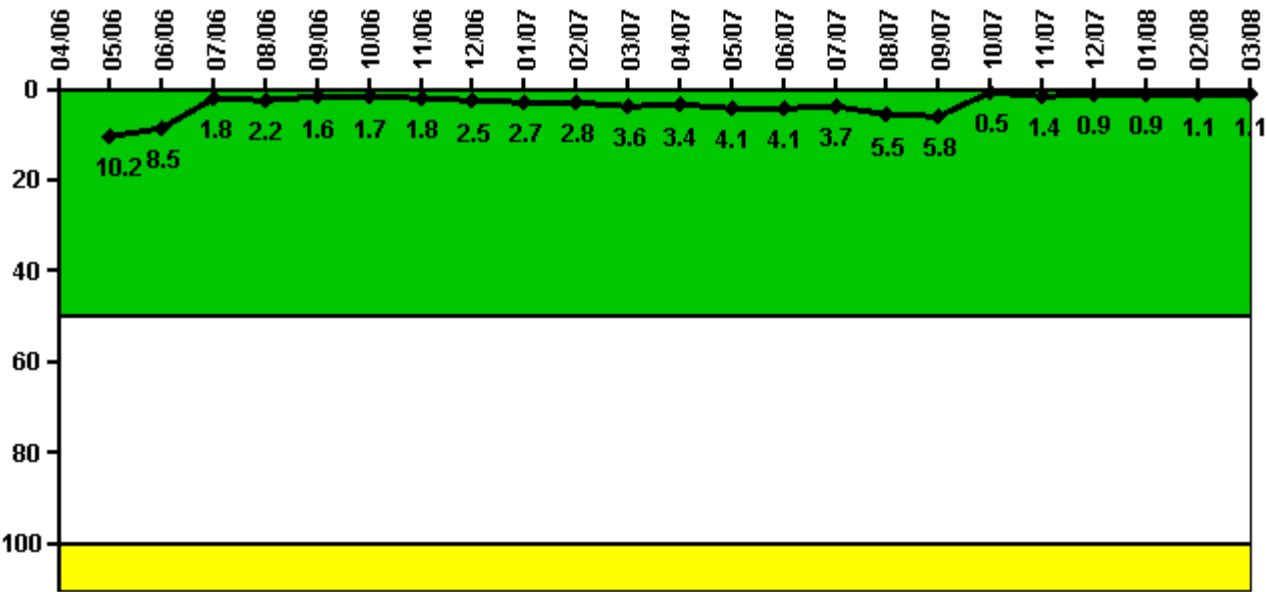
Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	5.00E-08	1.00E-07	2.50E-08	2.50E-08	2.80E-08	2.80E-08	2.50E-08	5.40E-10
URI (ΔCDF)	8.50E-07	4.70E-07	4.70E-07	4.80E-07	4.80E-07	4.80E-07	4.80E-07	-2.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.00E-07	5.70E-07	4.95E-07	5.05E-07	5.08E-07	5.08E-07	5.05E-07	-2.19E-07

Licensee Comments:

1Q/08: Cooling Water System results improved due to two (2) January 2005 AOV failures rolling off of 36-month calculation. Evaluation is pending on relay testing results for Breaker 152-208 associated with Component Cooling Pump P-52B. (Reference CR-PLP-2008-01409).

Reactor Coolant System Activity



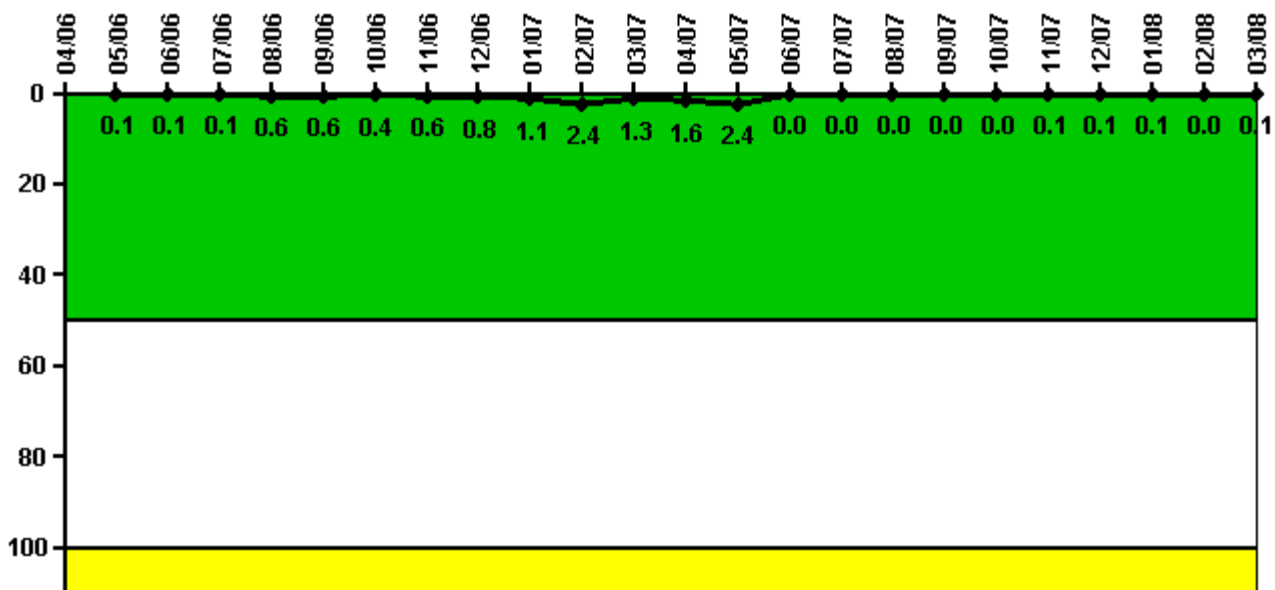
Thresholds: White > 50.0 Yellow > 100.0

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		N/A	0.102000	0.084600	0.018300	0.022200	0.015700	0.017400	0.017800	0.024900	0.027300	0.028200	0.036000
Technical specification limit		1.0	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	10.2	8.5	1.8	2.2	1.6	1.7	1.8	2.5	2.7	2.8	3.6
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		0.033800	0.040800	0.041000	0.037000	0.055400	0.058400	0.005210	0.013800	0.009210	0.009320	0.010600	0.011200
Technical specification limit		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value		3.4	4.1	4.1	3.7	5.5	5.8	0.5	1.4	0.9	0.9	1.1	1.1

Licensee Comments: none

Reactor Coolant System Leakage



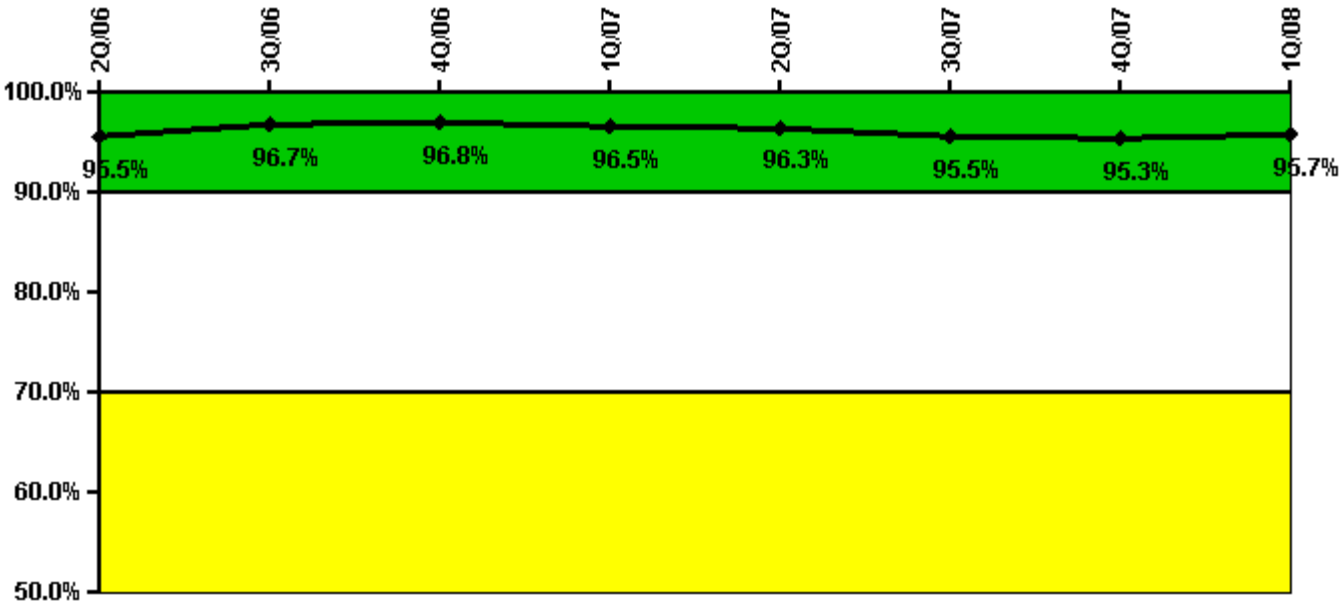
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum leakage	N/A	0.013	0.013	0.007	0.059	0.059	0.040	0.055	0.079	0.111	0.238	0.125
Technical specification limit	10.0	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	0.1	0.1	0.1	0.6	0.6	0.4	0.6	0.8	1.1	2.4	1.3
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	0.164	0.238	0.001	0.001	0.001	0.001	0.004	0.005	0.005	0.005	0.004	0.007
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.6	2.4	0	0	0	0	0	0.1	0.1	0.1	0	0.1

Licensee Comments: none

Drill/Exercise Performance



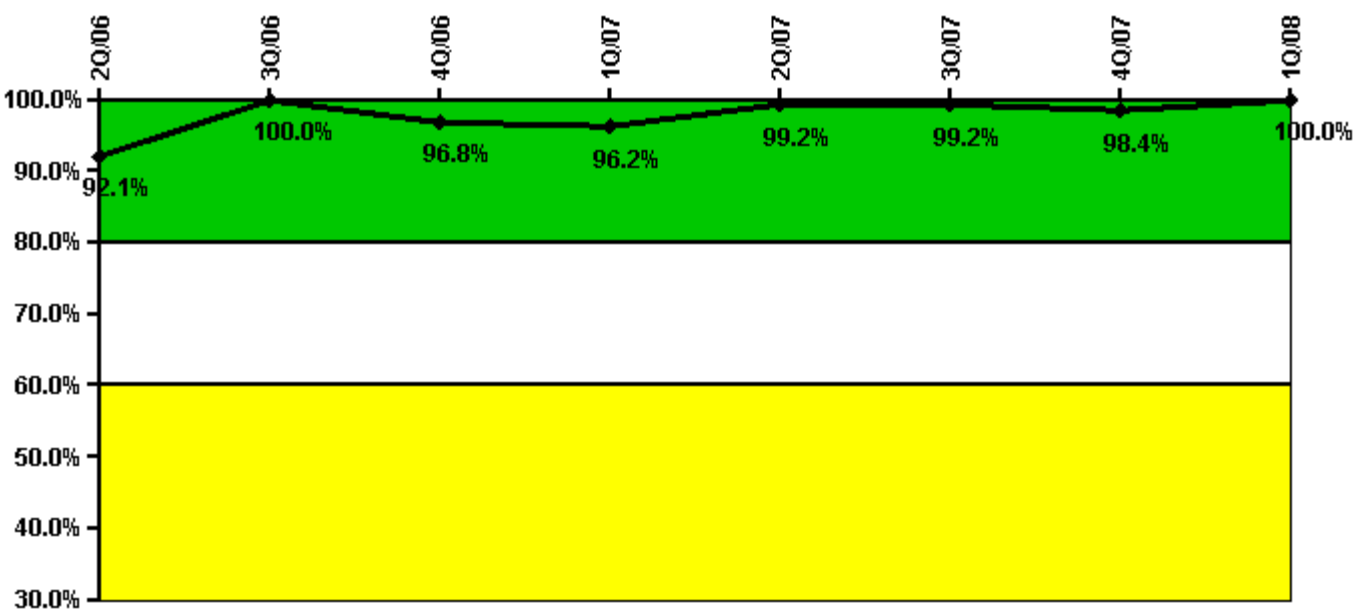
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful opportunities	36.0	40.0	25.0	18.0	28.0	22.0	19.0	58.0
Total opportunities	36.0	40.0	26.0	23.0	30.0	22.0	20.0	60.0
Indicator value	95.5%	96.7%	96.8%	96.5%	96.3%	95.5%	95.3%	95.7%

Licensee Comments: none

ERO Drill Participation



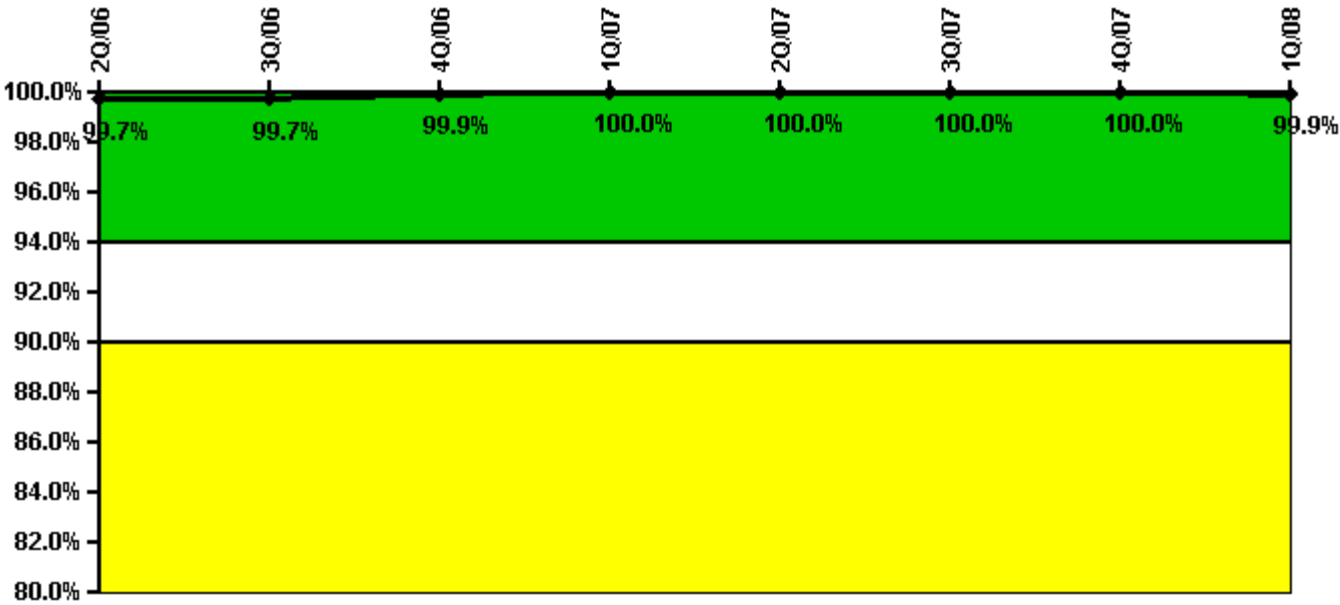
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Participating Key personnel	105.0	114.0	121.0	126.0	125.0	123.0	122.0	117.0
Total Key personnel	114.0	114.0	125.0	131.0	126.0	124.0	124.0	117.0
Indicator value	92.1%	100.0%	96.8%	96.2%	99.2%	99.2%	98.4%	100.0%

Licensee Comments: none

Alert & Notification System



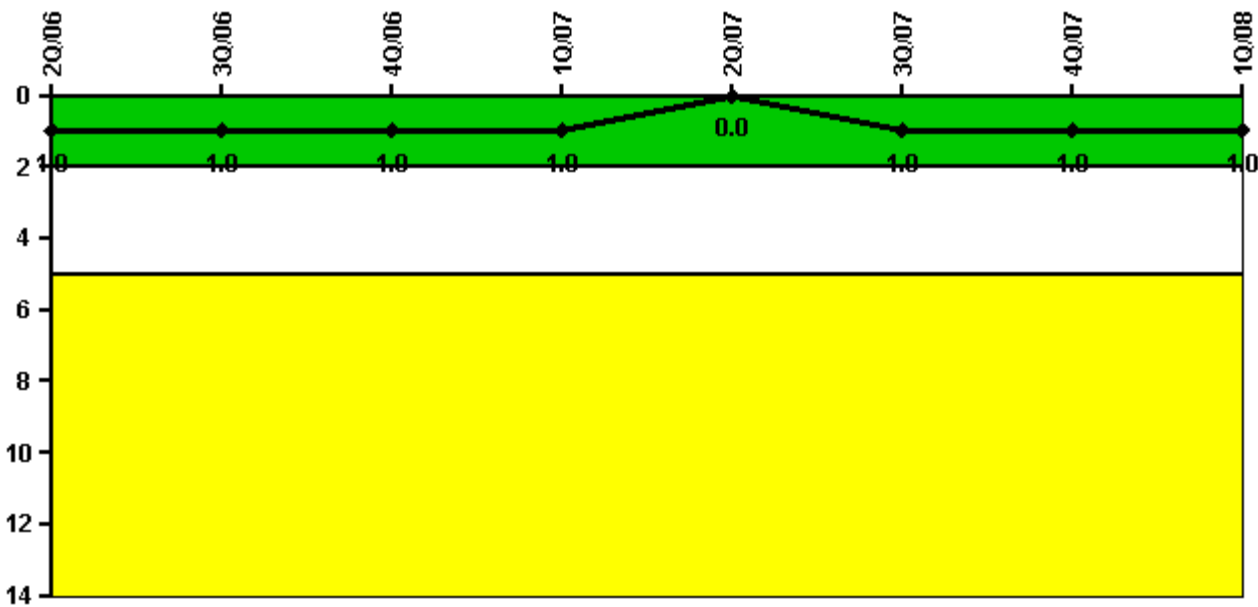
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful siren-tests	183	183	183	183	183	183	183	182
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.7%	99.7%	99.9%	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	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
High radiation area occurrences	1	0	0	0	0	1	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	1	1	1	0	1	1	1

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](#)

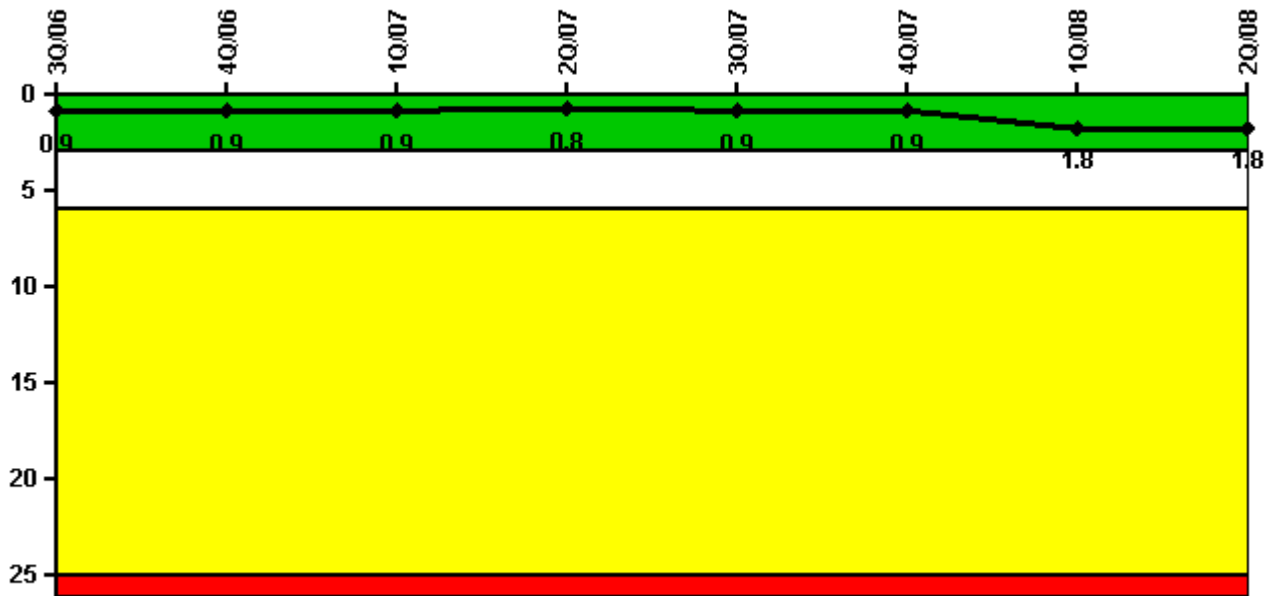
Last Modified: April 30, 2008

Palisades

2Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



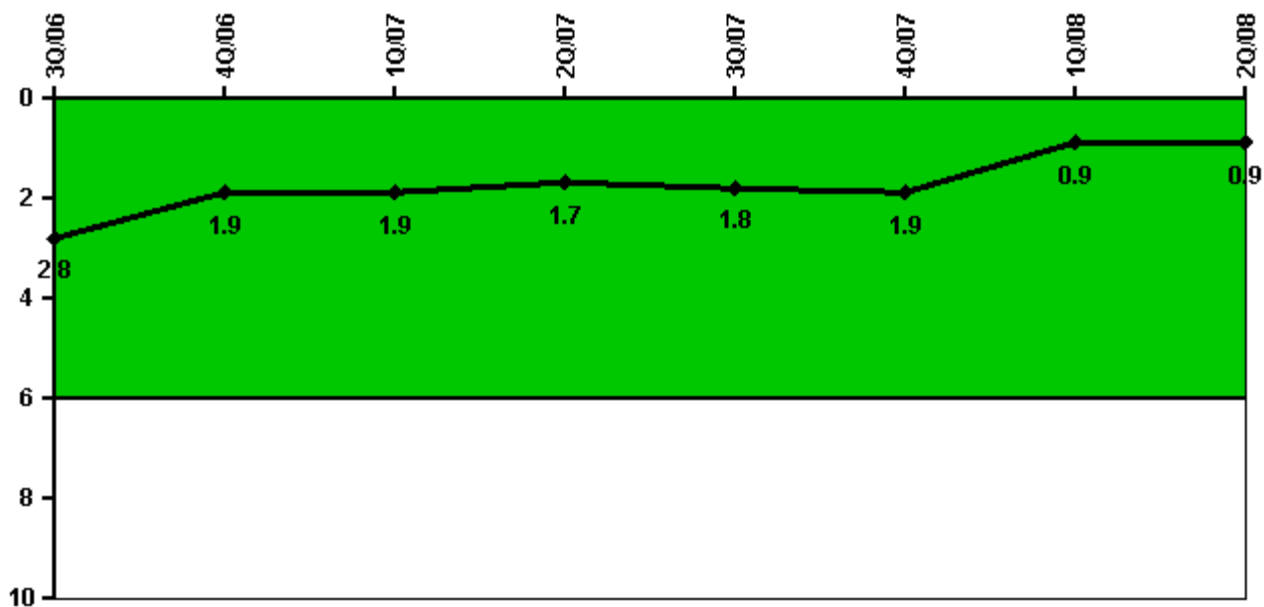
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned scrams	0	0	0	1.0	0	0	1.0	1.0
Critical hours	2208.0	2163.5	1987.0	2049.2	1691.0	1749.1	2148.2	2158.1
Indicator value	0.9	0.9	0.9	0.8	0.9	0.9	1.8	1.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

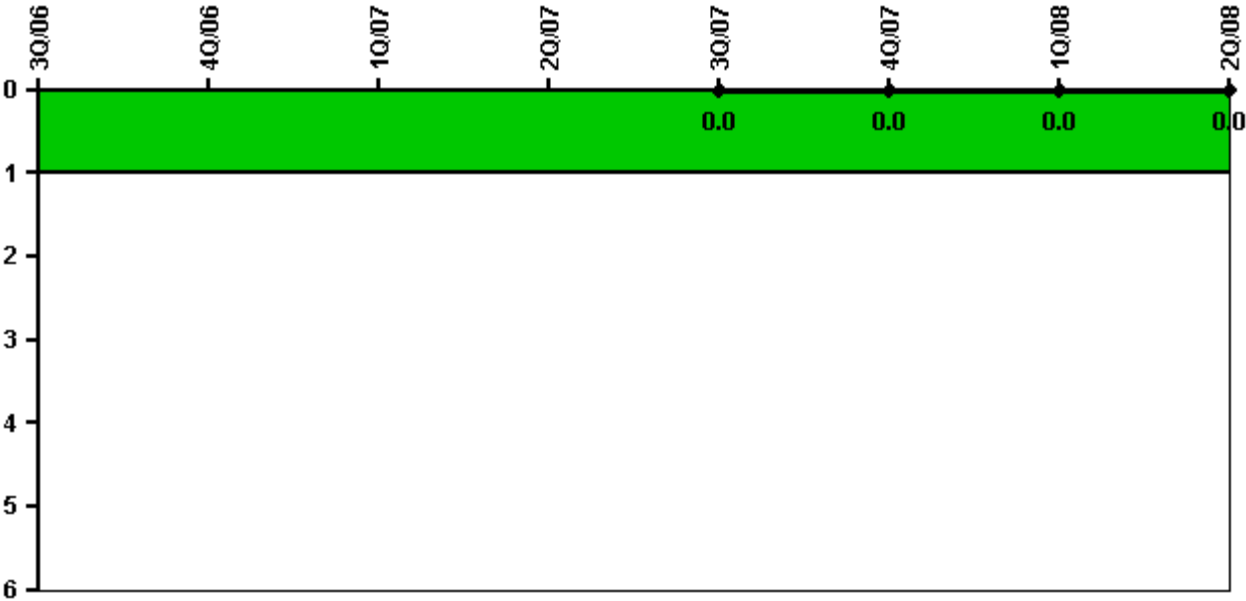
Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned power changes	0	1.0	1.0	0	0	1.0	0	0
Critical hours	2208.0	2163.5	1987.0	2049.2	1691.0	1749.1	2148.2	2158.1
Indicator value	2.8	1.9	1.9	1.7	1.8	1.9	0.9	0.9

Licensee Comments:

2Q/08: The NRC granted Palisades Enforcement Discretion for Safeguards Transformer 1-1 Inoperability (72 hour shutdown LCO). The 24 hour NOED was in effect from 4/04/08 21:55 until the transformer was restored at 01:00 on 4/05/08. No power reduction required.

Unplanned Scrams with Complications



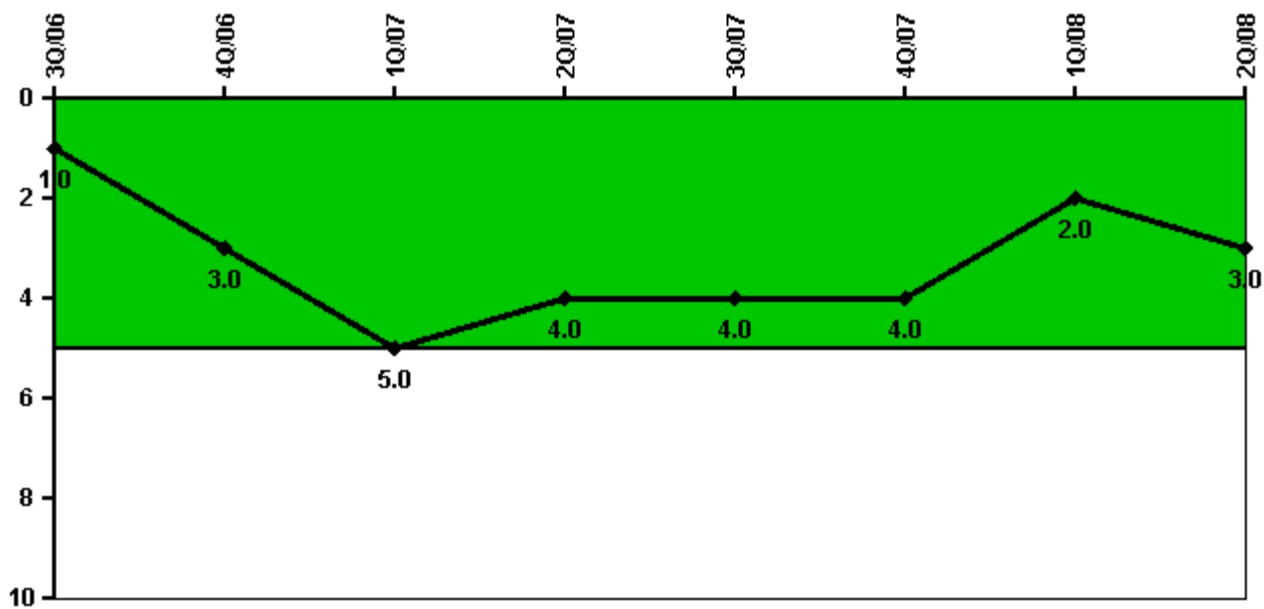
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

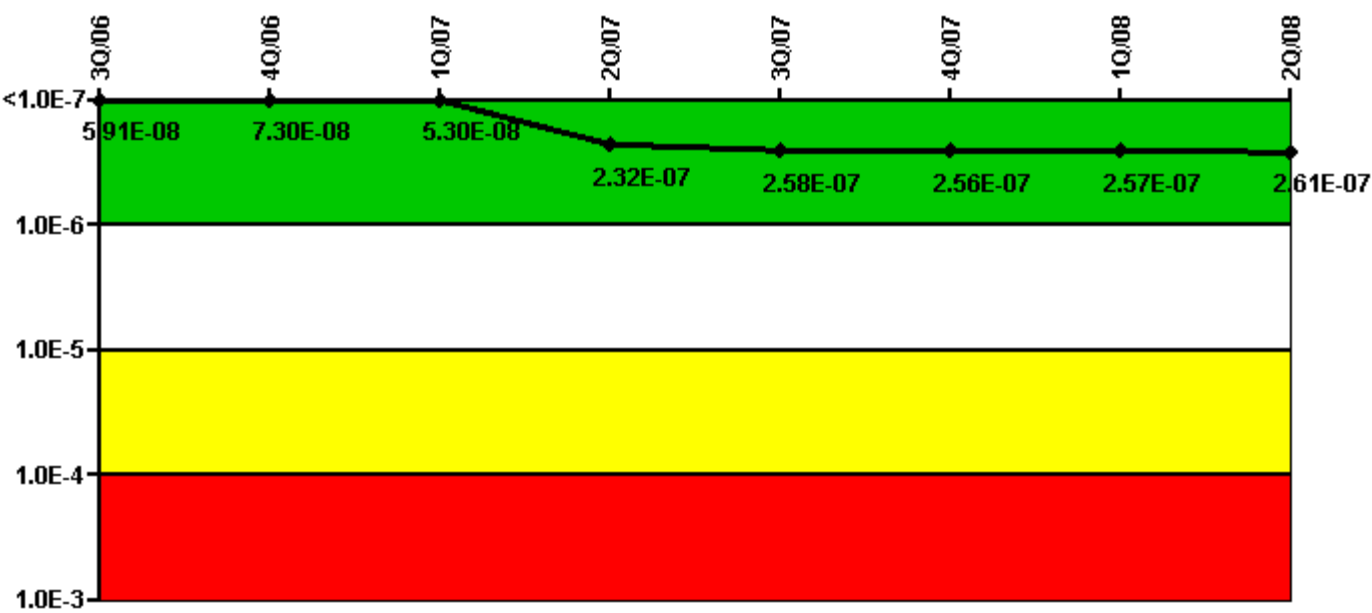
Notes

Safety System Functional Failures (PWR)	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Safety System Functional Failures	0	2	2	0	0	2	0	1
Indicator value	1	3	5	4	4	4	2	3

Licensee Comments:

2Q/08: LER 2008-002 - Breaker Cubicle Component Failure Results in HPSI Pump Inoperability.

Mitigating Systems Performance Index, Emergency AC Power System



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

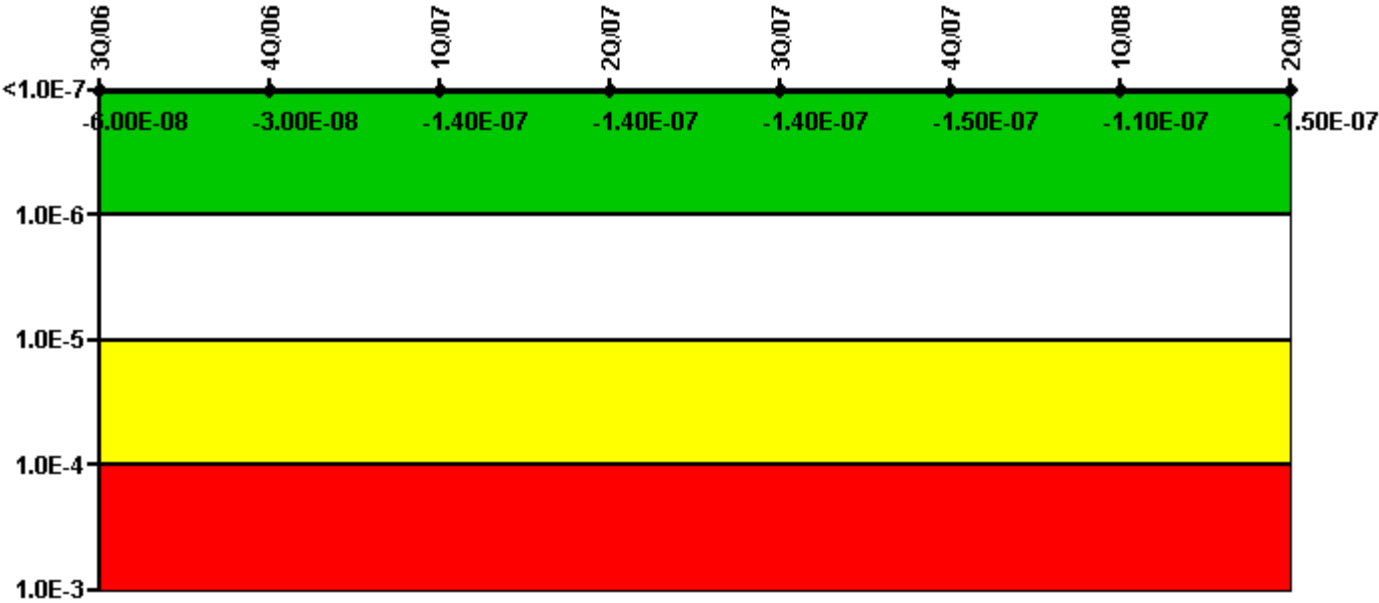
Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	4.10E-09	1.80E-08	6.50E-08	8.20E-08	3.80E-08	3.60E-08	3.70E-08	4.10E-08
URI (ΔCDF)	5.50E-08	5.50E-08	-1.20E-08	1.50E-07	2.20E-07	2.20E-07	2.20E-07	2.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.91E-08	7.30E-08	5.30E-08	2.32E-07	2.58E-07	2.56E-07	2.57E-07	2.61E-07

Licensee Comments:

2Q/08: Reevaluation of September 2007 MSPI Failure for EDG 1-1 fuel oil leak is being reviewed. (Reference CR-PLP-2007-04078).

Mitigating Systems Performance Index, High Pressure Injection System



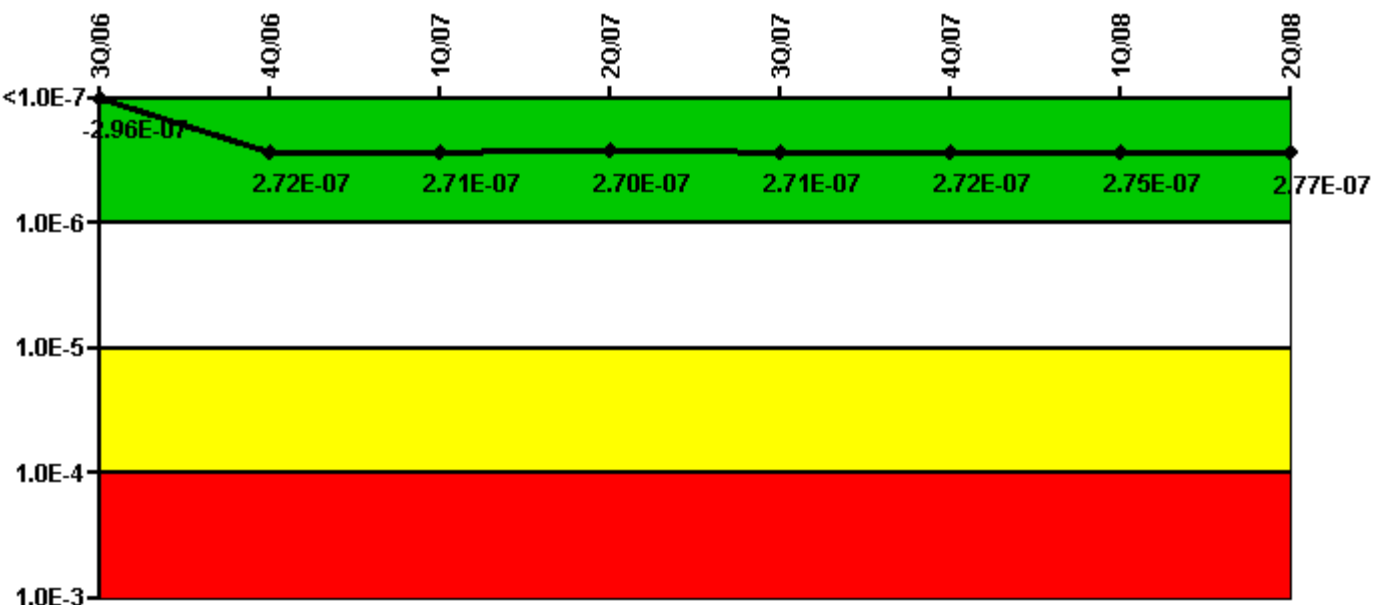
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	2.10E-07	2.40E-07	1.30E-07	1.30E-07	1.30E-07	1.20E-07	1.60E-07	1.20E-07
URI (ΔCDF)	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.00E-08	-3.00E-08	-1.40E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.10E-07	-1.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



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

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (Δ CDF)	-1.60E-08	-8.30E-09	-9.40E-09	-1.00E-08	-8.90E-09	-8.00E-09	-5.40E-09	-3.30E-09
URI (Δ CDF)	-2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.96E-07	2.72E-07	2.71E-07	2.70E-07	2.71E-07	2.72E-07	2.75E-07	2.77E-07

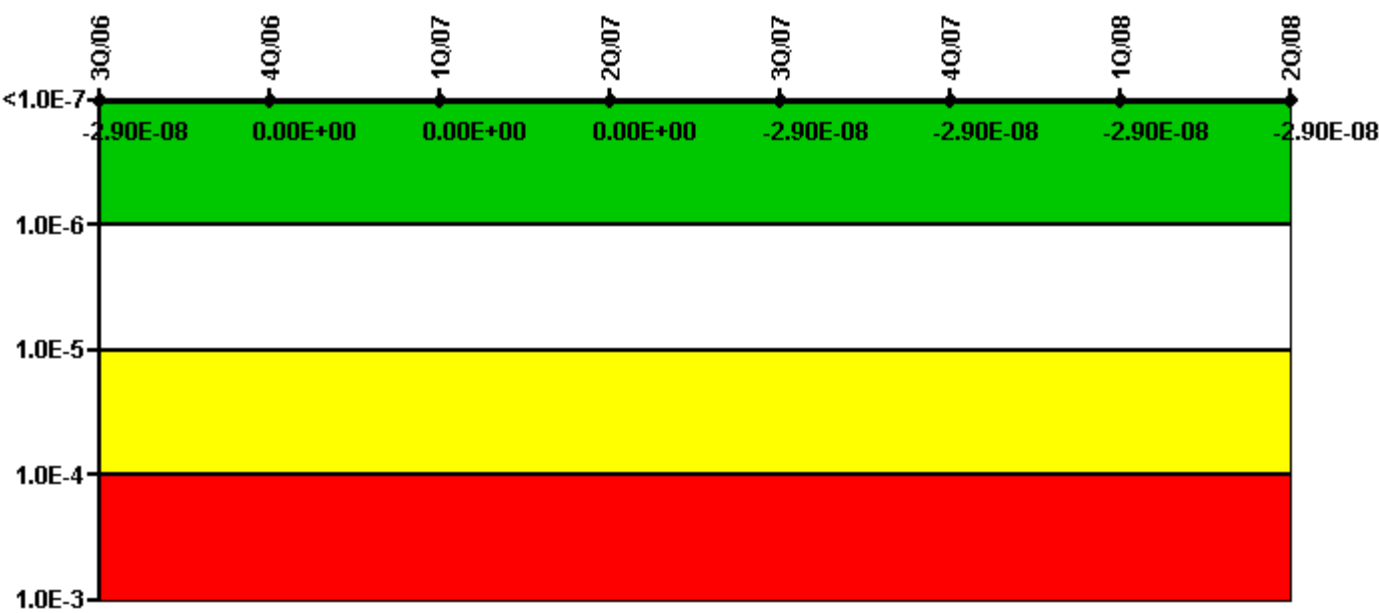
Licensee Comments:

2Q/08: Evaluation of relay testing results for Breaker 152-209 associated with Auxiliary Feedwater Pump P-8C concluded the equipment remained capable of performing their design functions and were operable. (Reference CR-PLP-2008-01473). This submittal includes revision to previously submitted planned unavailability hours due to missed flow controller testing (RI-95). Data updates made in Jan 06, Feb 06, Sep 06, Dec 06, Jul 07, and Mar 08 with a small impact on MSPI result and no impact on the ???color??? of the indicator. Extent of condition reviews are in progress due to this issue. (Reference CR-PLP-2008-02172).

1Q/08: Evaluation is pending on relay testing results for Breaker 152-209 associated with Auxiliary Feedwater Pump P-8C. (Reference CR-PLP-2008-01473).

4Q/06: 5 failures were reported in November related to switch/controller mis-positionings. These were associated with AFW Pump handswitches (3 failures) and AFW Flow Control Valve controller position (2 failures). The failures were reported in Palisades LER 2006-007, Auxiliary Feedwater Control Switches Not Position for Automatic System Actuation

Mitigating Systems Performance Index, Residual Heat Removal System



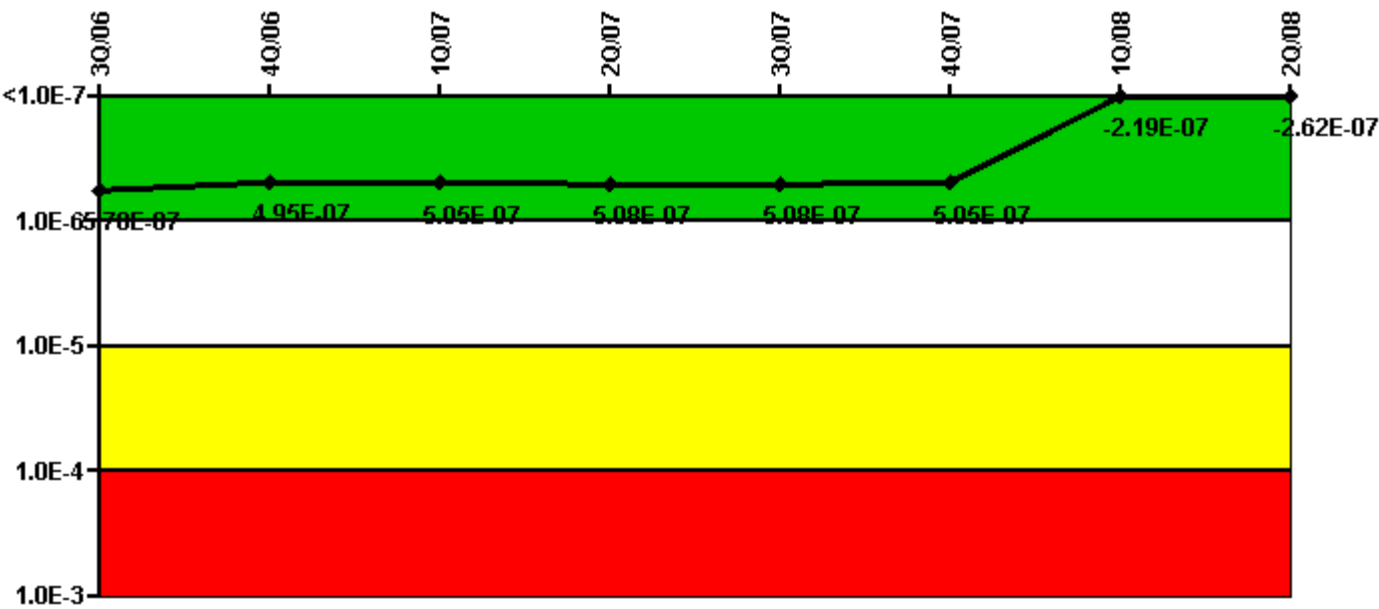
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	1.10E-08	4.00E-08	4.00E-08	4.00E-08	1.10E-08	1.10E-08	1.10E-08	1.10E-08
URI (ΔCDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-08	0.00E+00	0.00E+00	0.00E+00	-2.90E-08	-2.90E-08	-2.90E-08	-2.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

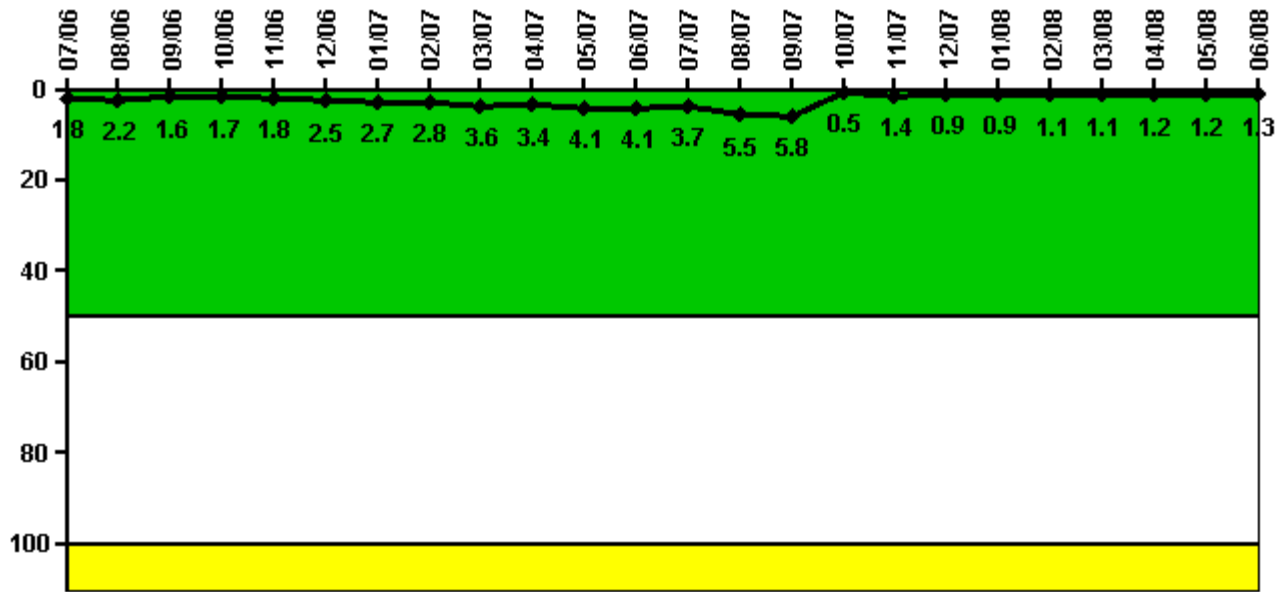
Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (Δ CDF)	1.00E-07	2.50E-08	2.50E-08	2.80E-08	2.80E-08	2.50E-08	5.40E-10	-4.20E-08
URI (Δ CDF)	4.70E-07	4.70E-07	4.80E-07	4.80E-07	4.80E-07	4.80E-07	-2.20E-07	-2.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.70E-07	4.95E-07	5.05E-07	5.08E-07	5.08E-07	5.05E-07	-2.19E-07	-2.62E-07

Licensee Comments:

2Q/08: Evaluation of relay testing results for Breaker 152-208 associated with Component Cooling Pump P-52B concluded the equipment remained capable of performing their design functions and were operable. (Reference CR-PLP-2008-01409).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

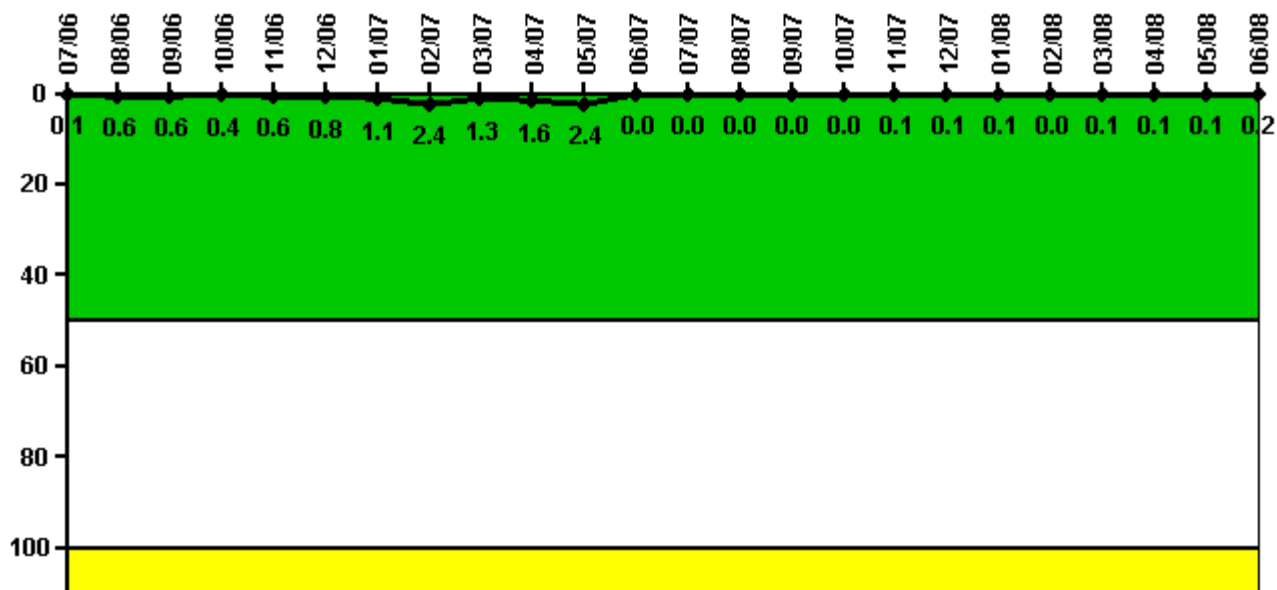
Notes

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	0.018300	0.022200	0.015700	0.017400	0.017800	0.024900	0.027300	0.028200	0.036000	0.033800	0.040800	0.041000
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.8	2.2	1.6	1.7	1.8	2.5	2.7	2.8	3.6	3.4	4.1	4.1

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	0.037000	0.055400	0.058400	0.005210	0.013800	0.009210	0.009320	0.010600	0.011200	0.011500	0.012200	0.012900
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	3.7	5.5	5.8	0.5	1.4	0.9	0.9	1.1	1.1	1.2	1.2	1.3

Licensee Comments: none

Reactor Coolant System Leakage



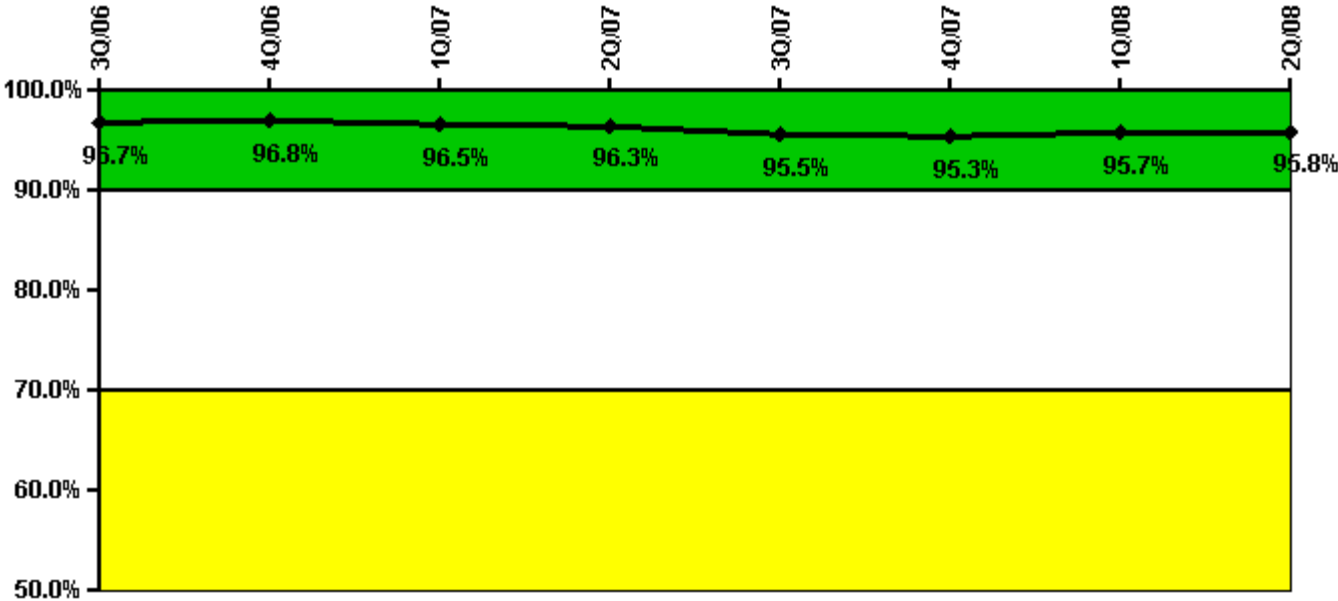
Thresholds: White > 50.0 Yellow > 100.0

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	0.007	0.059	0.059	0.040	0.055	0.079	0.111	0.238	0.125	0.164	0.238	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	0.6	0.6	0.4	0.6	0.8	1.1	2.4	1.3	1.6	2.4	0
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	0.001	0.001	0.001	0.004	0.005	0.005	0.005	0.004	0.007	0.007	0.008	0.017
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0.1	0.1	0.1	0	0.1	0.1	0.1	0.2

Licensee Comments: none

Drill/Exercise Performance



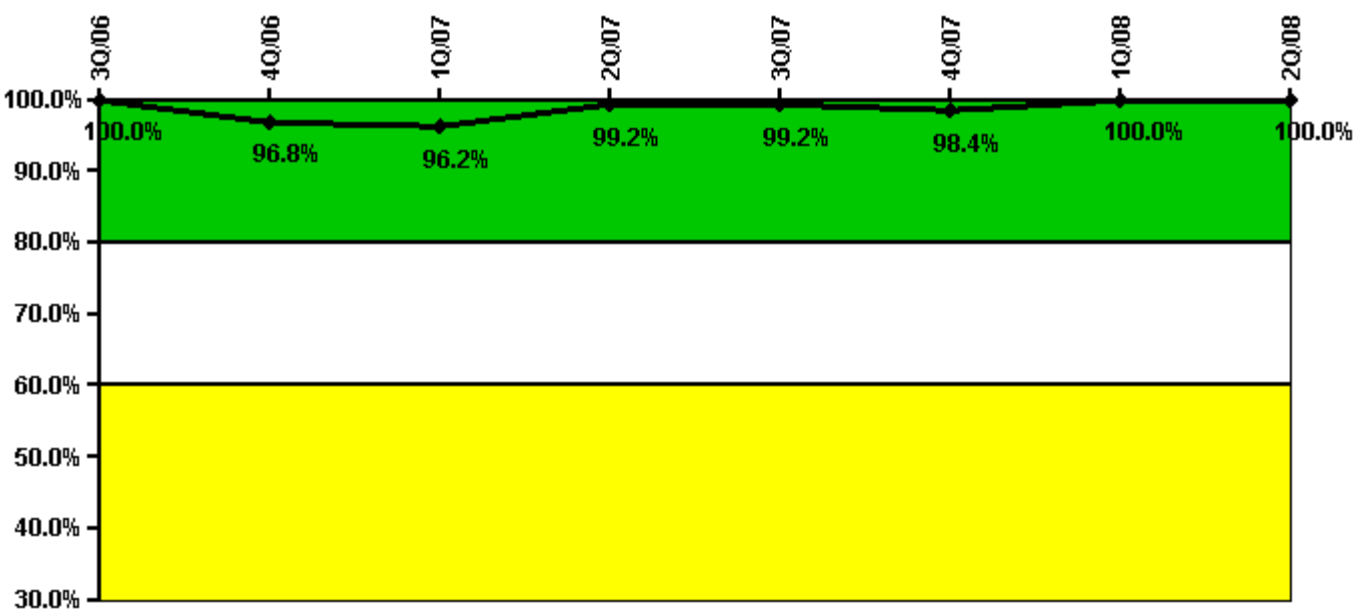
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful opportunities	40.0	25.0	18.0	28.0	22.0	19.0	58.0	42.0
Total opportunities	40.0	26.0	23.0	30.0	22.0	20.0	60.0	42.0
Indicator value	96.7%	96.8%	96.5%	96.3%	95.5%	95.3%	95.7%	95.8%

Licensee Comments: none

ERO Drill Participation



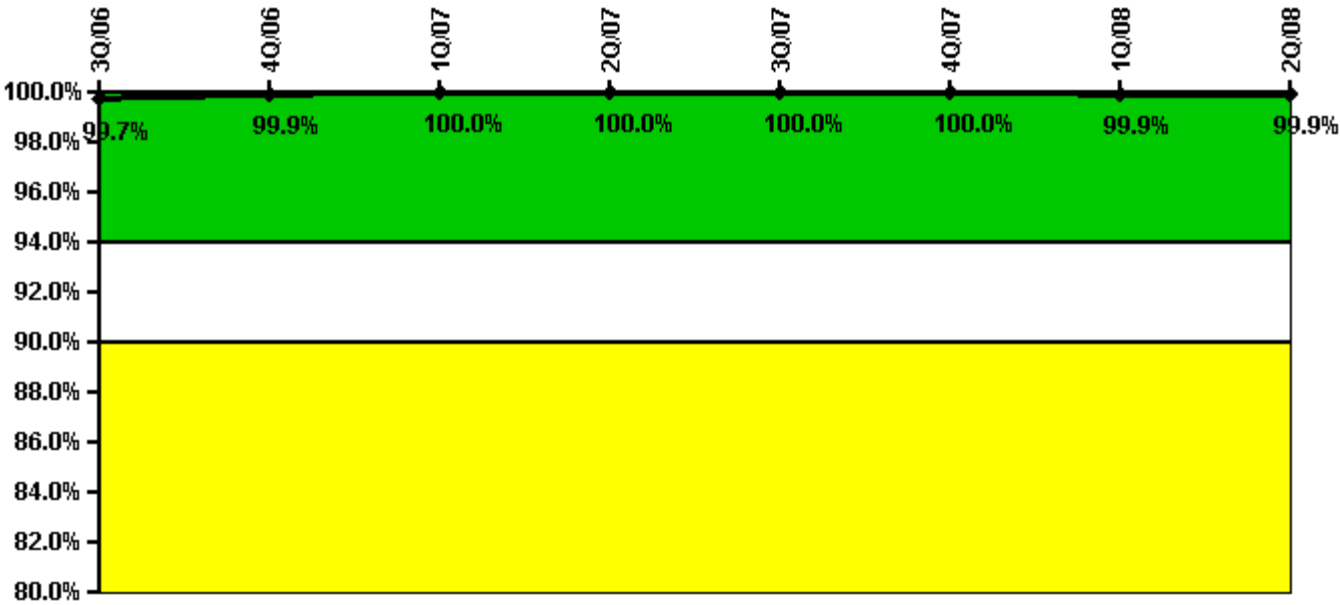
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Participating Key personnel	114.0	121.0	126.0	125.0	123.0	122.0	117.0	112.0
Total Key personnel	114.0	125.0	131.0	126.0	124.0	124.0	117.0	112.0
Indicator value	100.0%	96.8%	96.2%	99.2%	99.2%	98.4%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



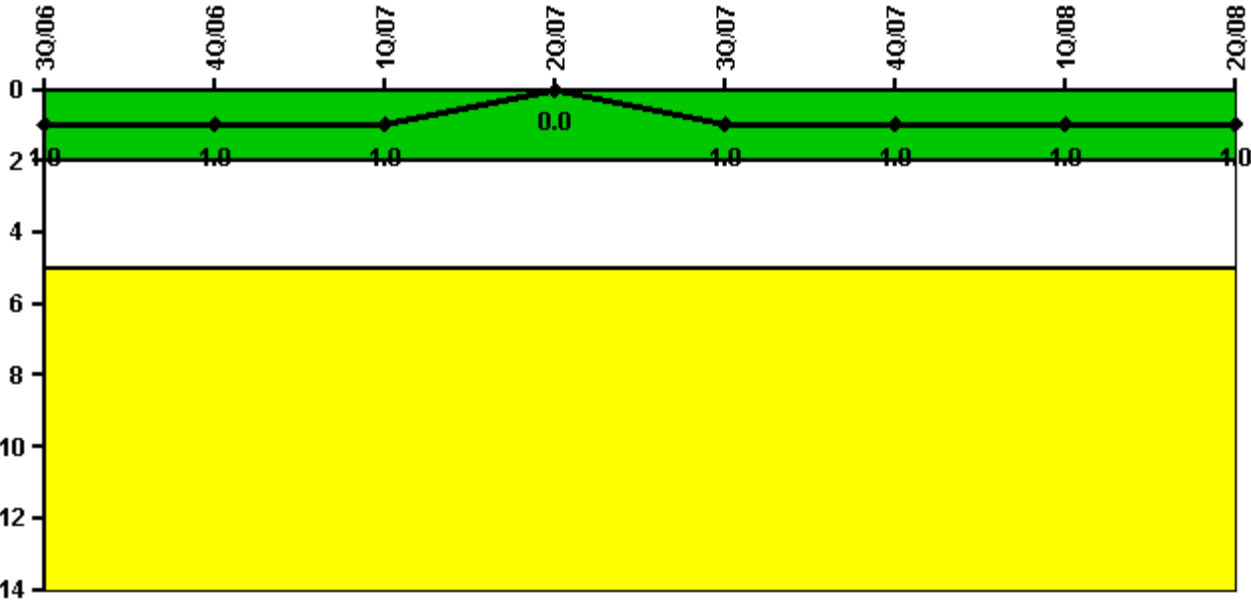
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful siren-tests	183	183	183	183	183	183	182	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.7%	99.9%	100.0%	100.0%	100.0%	100.0%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

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

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

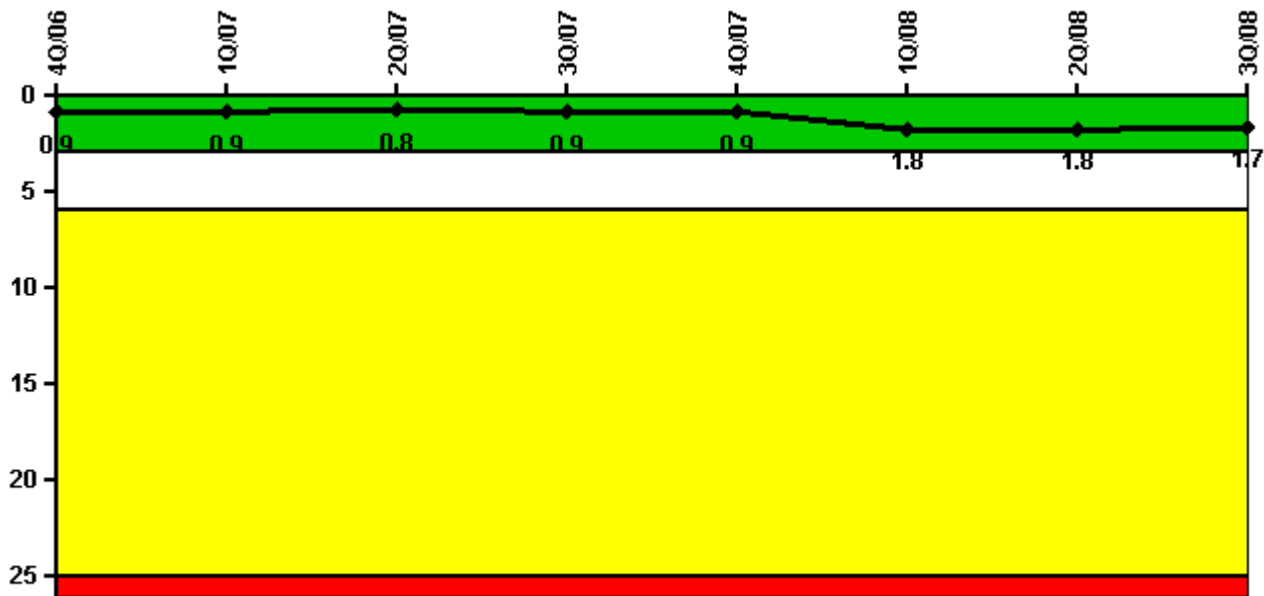
Last Modified: August 4, 2008

Palisades

3Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



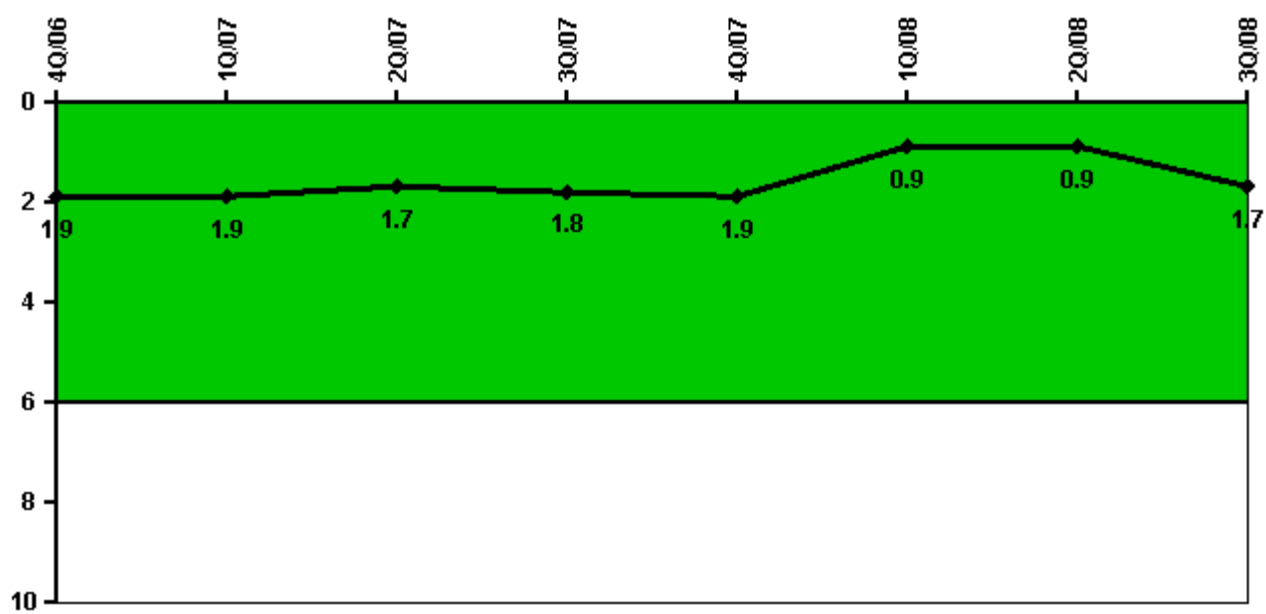
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned scrams	0	0	1.0	0	0	1.0	1.0	0
Critical hours	2163.5	1987.0	2049.2	1691.0	1749.1	2148.2	2158.1	2113.1
Indicator value	0.9	0.9	0.8	0.9	0.9	1.8	1.8	1.7

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



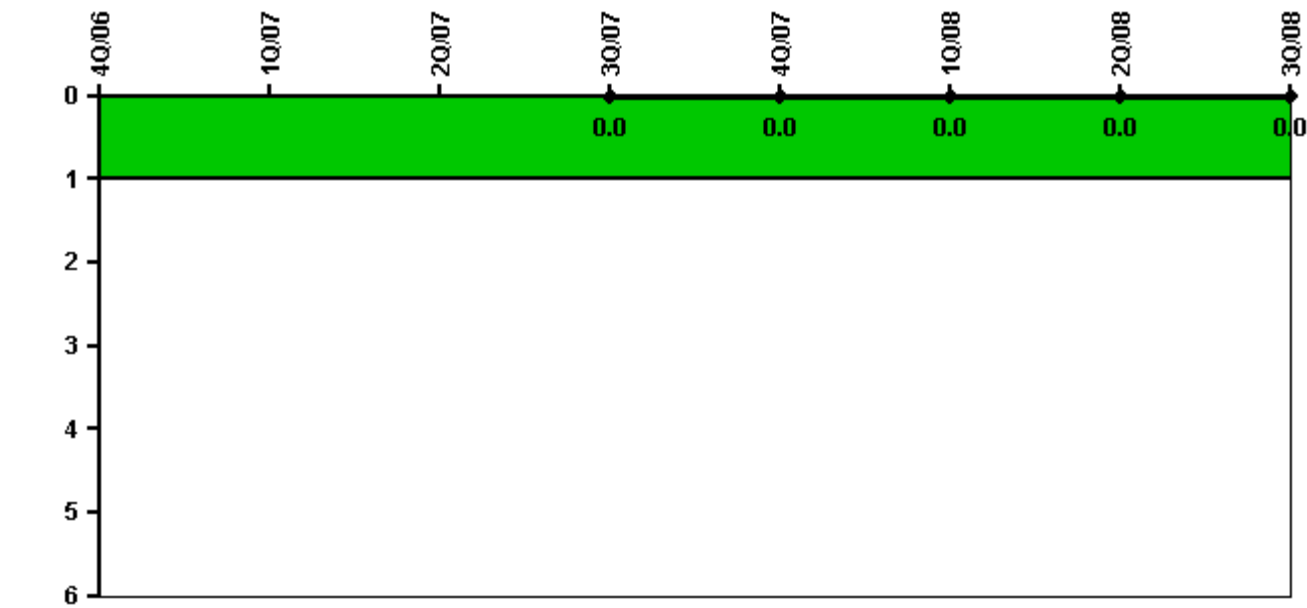
Thresholds: White > 6.0

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	1.0	1.0	0	0	1.0	0	0	1.0
Critical hours	2163.5	1987.0	2049.2	1691.0	1749.1	2148.2	2158.1	2113.1
Indicator value	1.9	1.9	1.7	1.8	1.9	0.9	0.9	1.7

Licensee Comments: none

Unplanned Scrams with Complications



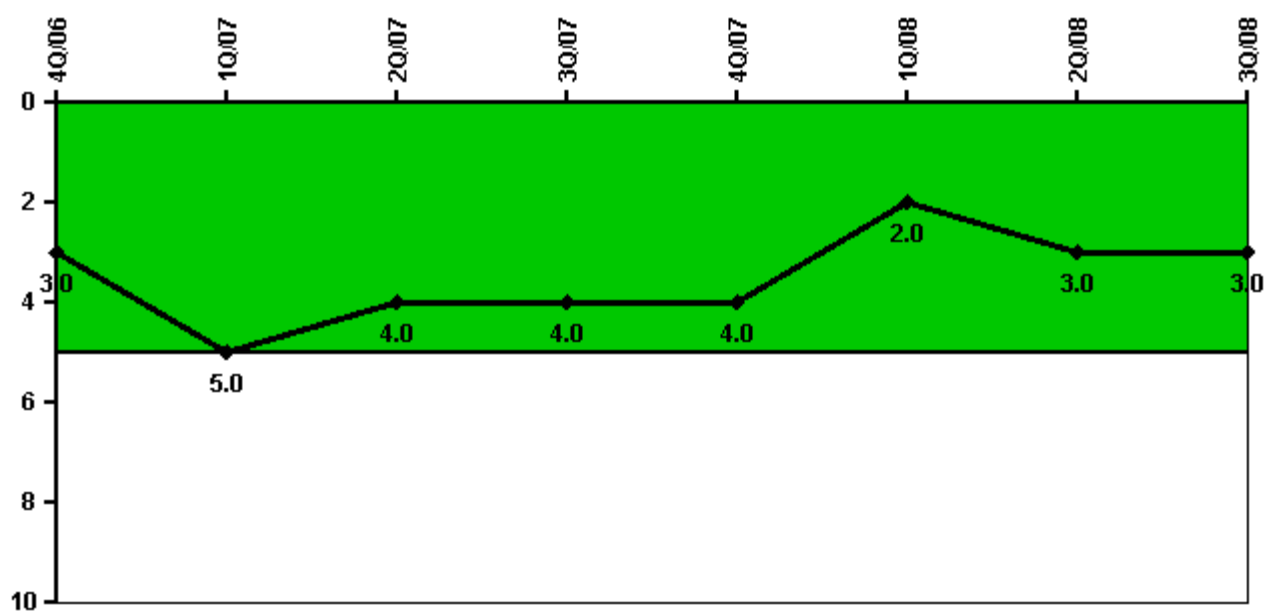
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



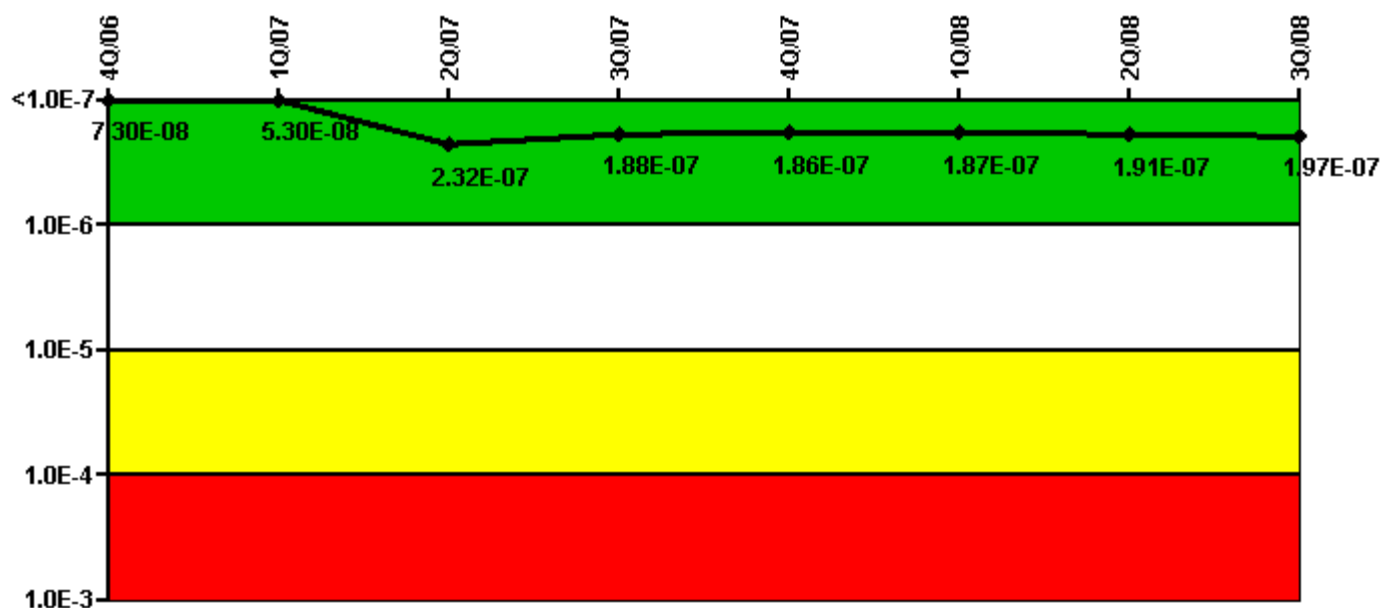
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Safety System Functional Failures	2	2	0	0	2	0	1	0
Indicator value	3	5	4	4	4	2	3	3

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	1.80E-08	6.50E-08	8.20E-08	3.80E-08	3.60E-08	3.70E-08	4.10E-08	4.70E-08
URI (ΔCDF)	5.50E-08	-1.20E-08	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	7.30E-08	5.30E-08	2.32E-07	1.88E-07	1.86E-07	1.87E-07	1.91E-07	1.97E-07

Licensee Comments:

3Q/08: Reevaluation of September 2007 Emergency Diesel Generator 1-1 (K-6AG) fuel oil leak concluded event was not an MSPI Failure. This submittal includes revision of the 9/17/2007 event to No MSPI Failure. The change had a small impact on the MSPI result and no impact on the indicator color. (Reference CR-PLP-2007-04078). Reassessment of February 2008 Emergency Diesel Generator 1-2 (K-6BG) cylinder spring lock condition concluded the event was a Maintenance Rule Failure. This submittal includes addition of the 2/19/2008 event to CDE for EPIX reporting with the event classified No MSPI Failure due to mission time differences. The change had no impact on the indicator color. (Reference CR-PLP-2008-00822).

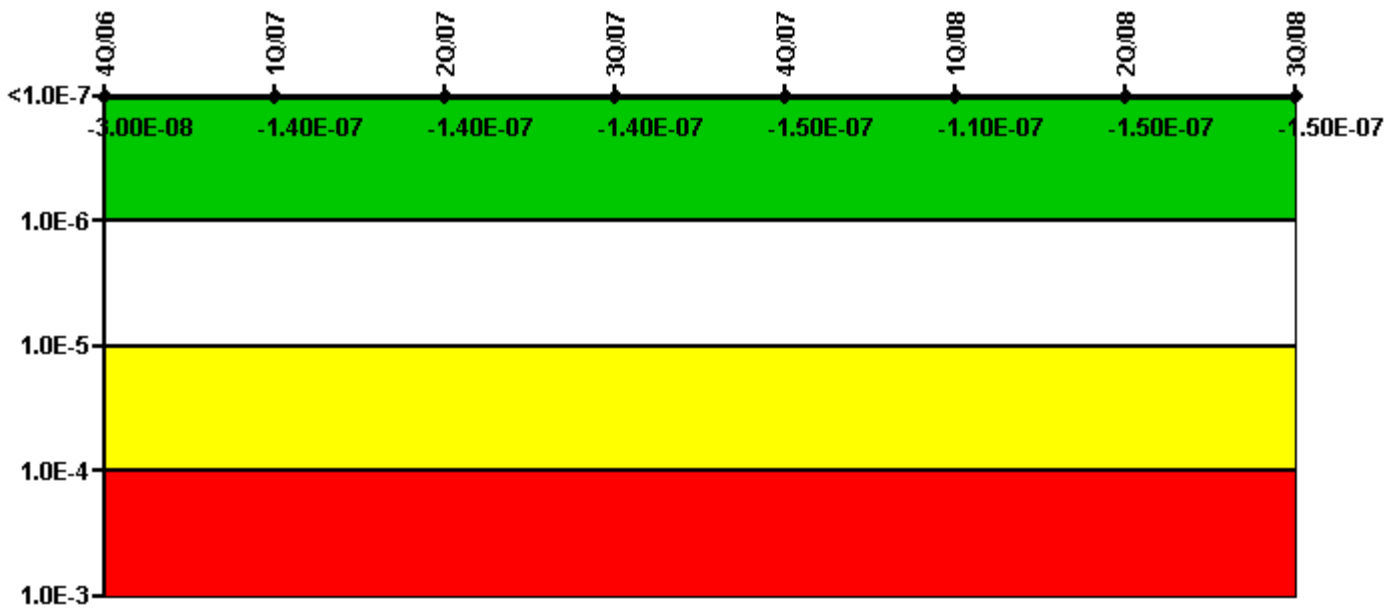
2Q/08: Reevaluation of September 2007 MSPI Failure for EDG 1-1 fuel oil leak is being reviewed. (Reference CR-PLP-2007-04078).

1Q/08: Reevaluation of September 2007 MSPI Failure for EDG 1-1 fuel oil leak is still pending (Reference CR-PLP-2007-04078).

4Q/07: Reevaluation of September 2007 MSPI Failure for EDG fuel oil leak is still pending.

3Q/07: One MSPI failure (EDG Failure to Run) occurred in September 2007 due to a fuel oil leak on Cylinder 1R of EDG 1-1 (Ref. CR-PLP-2007-04078). Additional evaluation of this event is in progress.

Mitigating Systems Performance Index, High Pressure Injection System



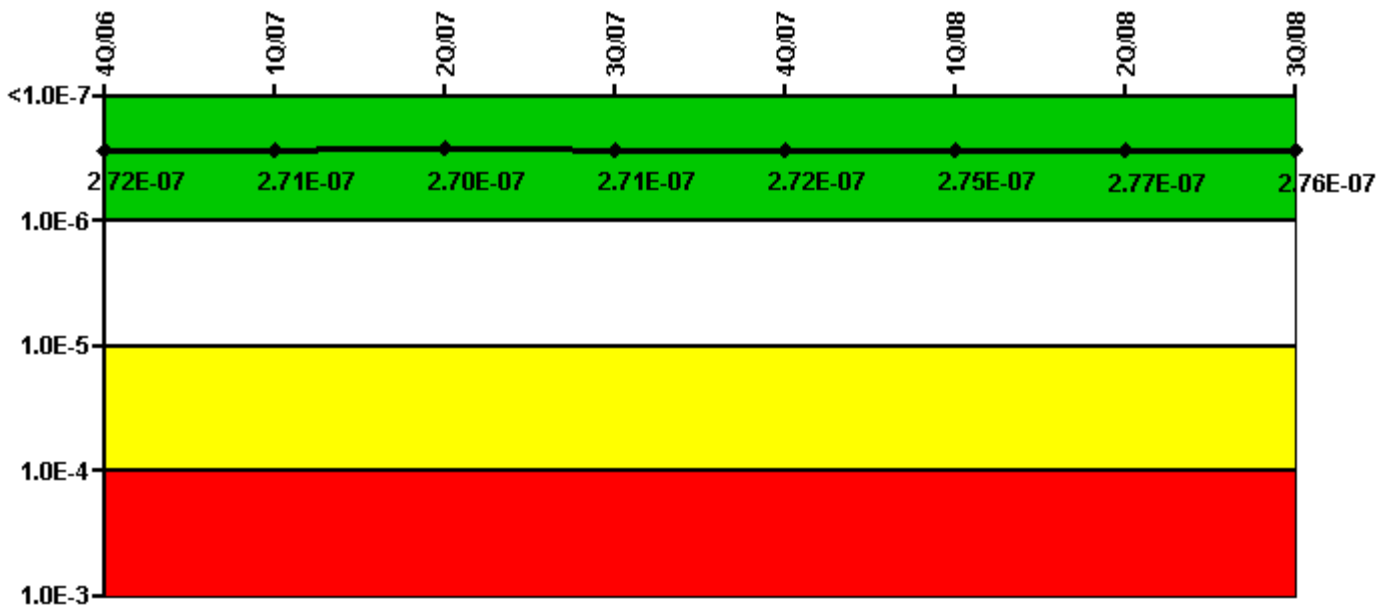
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	2.40E-07	1.30E-07	1.30E-07	1.30E-07	1.20E-07	1.60E-07	1.20E-07	1.20E-07
URI (ΔCDF)	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.00E-08	-1.40E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.10E-07	-1.50E-07	-1.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



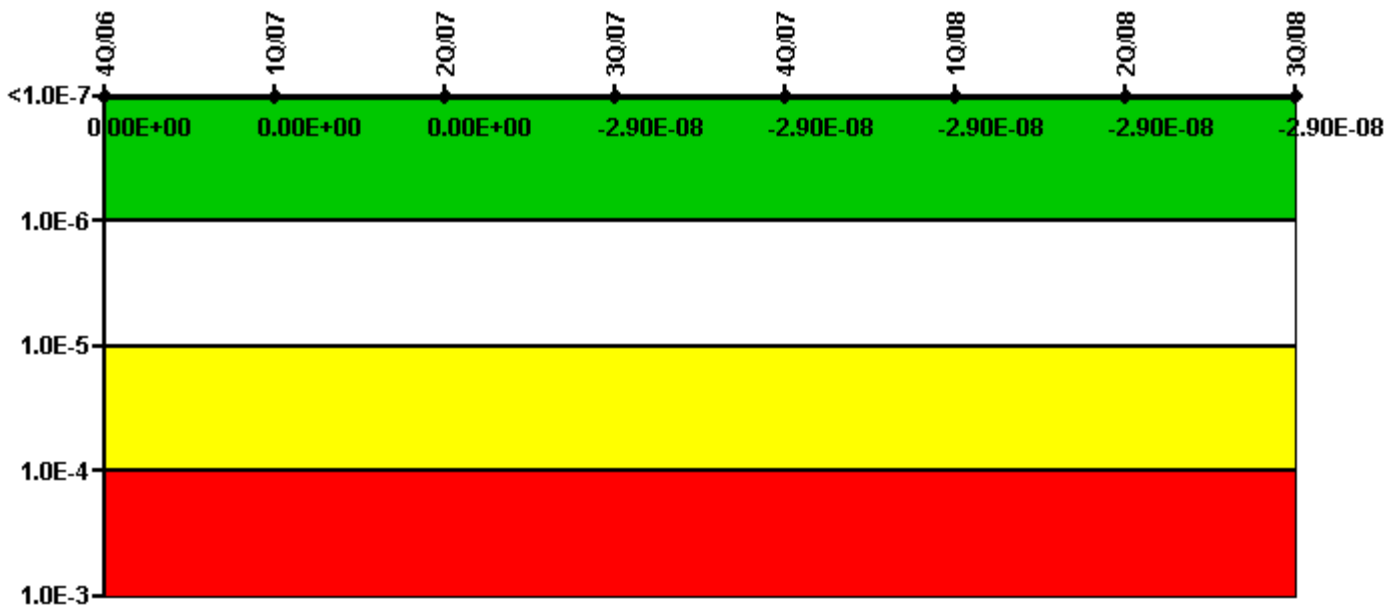
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	-8.30E-09	-9.40E-09	-1.00E-08	-8.90E-09	-8.00E-09	-5.40E-09	-3.30E-09	-3.60E-09
URI (ΔCDF)	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.72E-07	2.71E-07	2.70E-07	2.71E-07	2.72E-07	2.75E-07	2.77E-07	2.76E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



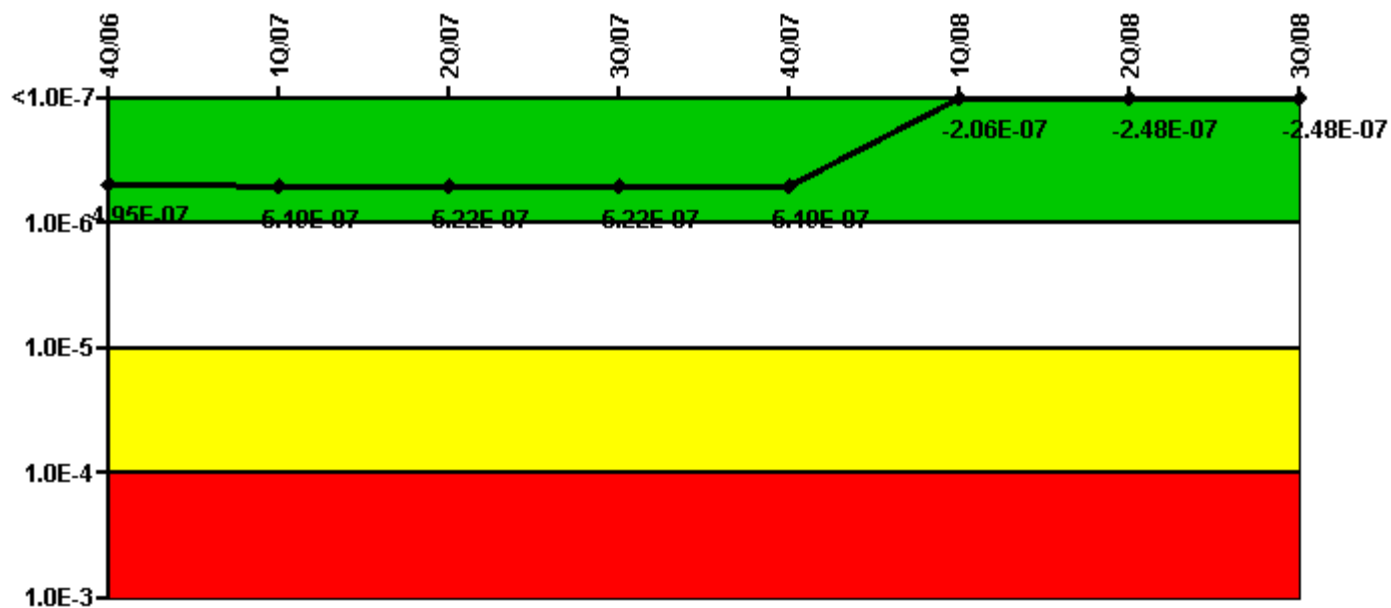
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	4.00E-08	4.00E-08	4.00E-08	1.10E-08	1.10E-08	1.10E-08	1.10E-08	1.10E-08
URI (ΔCDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	0.00E+00	0.00E+00	0.00E+00	-2.90E-08	-2.90E-08	-2.90E-08	-2.90E-08	-2.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	2.50E-08	3.90E-08	4.20E-08	4.20E-08	3.90E-08	1.40E-08	-2.80E-08	-2.80E-08
URI (ΔCDF)	4.70E-07	4.80E-07	4.80E-07	4.80E-07	4.80E-07	-2.20E-07	-2.20E-07	-2.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.95E-07	5.19E-07	5.22E-07	5.22E-07	5.19E-07	-2.06E-07	-2.48E-07	-2.48E-07

Licensee Comments:

3Q/08: This submittal includes revision to February 2007 planned unavailability hours for Train/Segment "SW to E-54A CV-0823/21" in the MSPI Cooling Water System 1. The change was a small increase in hours and had no impact on the indicator color. (Reference CR-PLP-2008-03021).

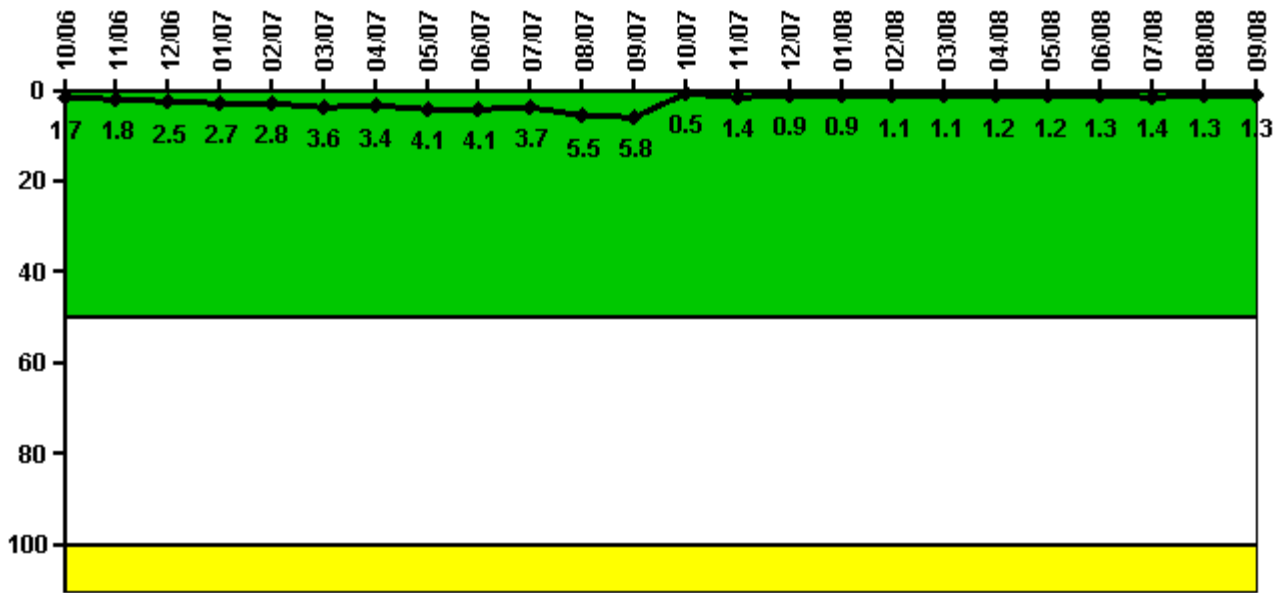
2Q/08: Evaluation of relay testing results for Breaker 152-208 associated with Component Cooling Pump P-52B concluded the equipment remained capable of performing their design functions and were operable. (Reference CR-PLP-2008-01409).

1Q/08: Cooling Water System results improved due to two (2) January 2005 AOV failures rolling off of 36-month calculation. Evaluation is pending on relay testing results for Breaker 152-208 associated with Component Cooling Pump P-52B. (Reference CR-PLP-2008-01409).

2Q/07: Testing and evaluation of degraded MSPI component cabling identified in February 2007 concluded no MSPI Failures resulted.

1Q/07: Evaluation continues on potential failures associated with degraded MSPI component cabling identified in Feb. 2007. Additional lab testing is scheduled to be completed in May 2007.

Reactor Coolant System Activity



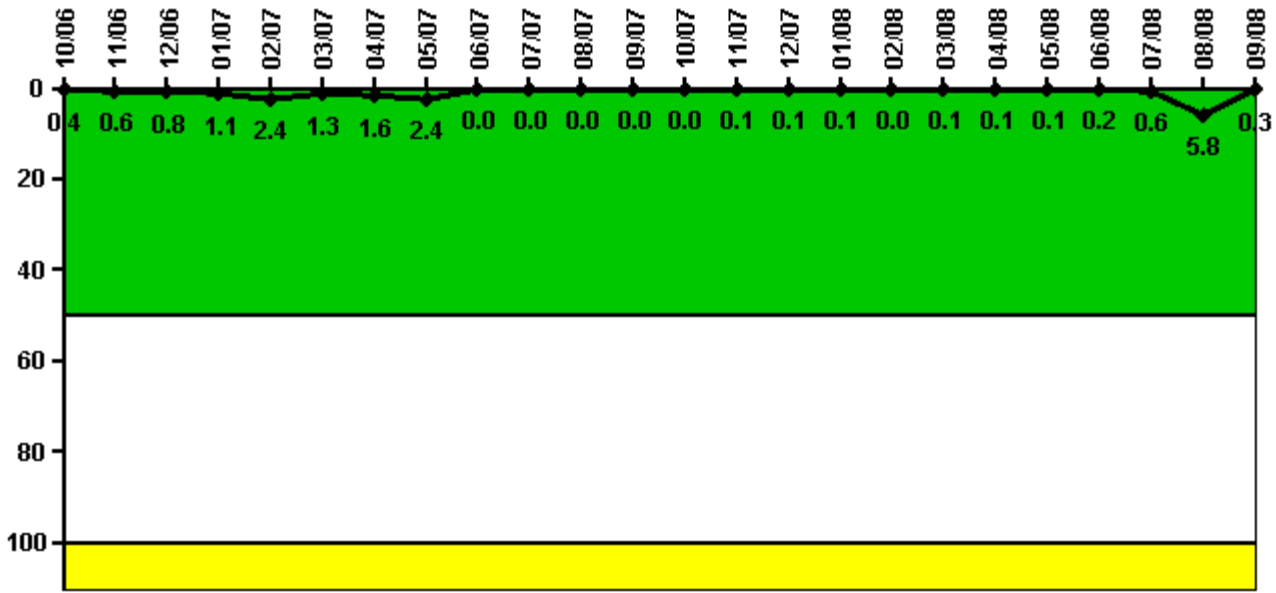
Thresholds: White > 50.0 Yellow > 100.0

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	0.017400	0.017800	0.024900	0.027300	0.028200	0.036000	0.033800	0.040800	0.041000	0.037000	0.055400	0.058400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.7	1.8	2.5	2.7	2.8	3.6	3.4	4.1	4.1	3.7	5.5	5.8
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	0.005210	0.013800	0.009210	0.009320	0.010600	0.011200	0.011500	0.012200	0.012900	0.014000	0.013200	0.013200
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.5	1.4	0.9	0.9	1.1	1.1	1.2	1.2	1.3	1.4	1.3	1.3

Licensee Comments: none

Reactor Coolant System Leakage



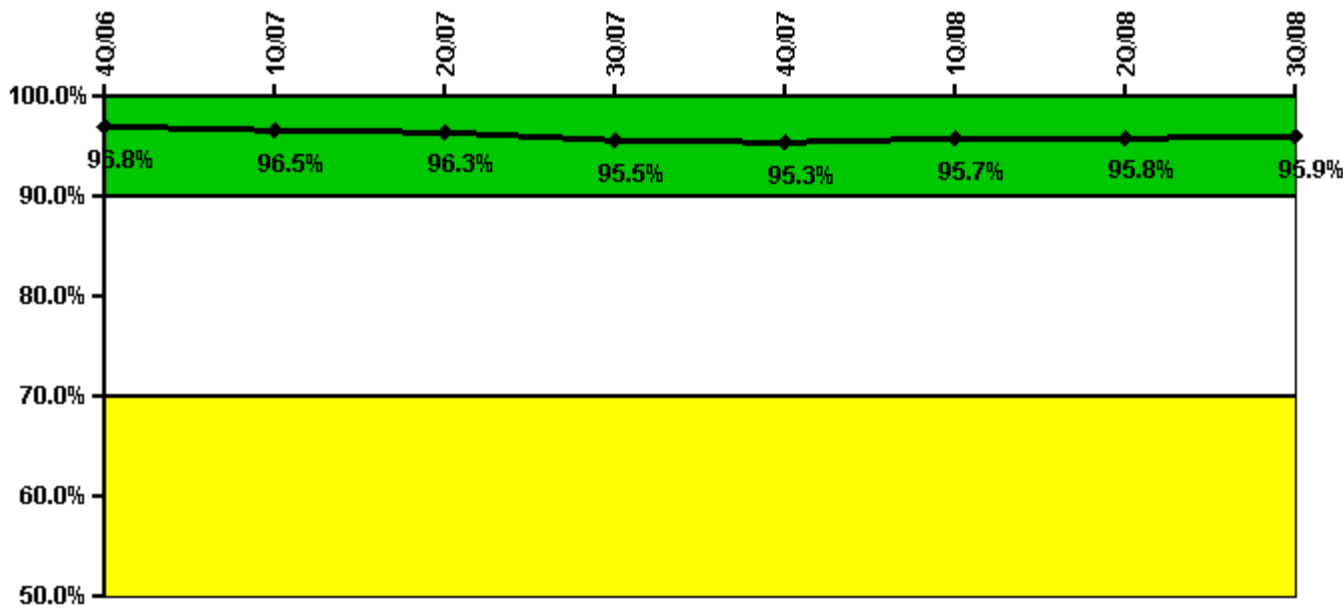
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum leakage	0.040	0.055	0.079	0.111	0.238	0.125	0.164	0.238	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.4	0.6	0.8	1.1	2.4	1.3	1.6	2.4	0	0	0	0
Reactor Coolant System Leakage	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum leakage	0.004	0.005	0.005	0.005	0.004	0.007	0.007	0.008	0.017	0.055	0.576	0.029
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0.1	0.1	0.1	0	0.1	0.1	0.1	0.2	0.6	5.8	0.3

Licensee Comments: none

Drill/Exercise Performance



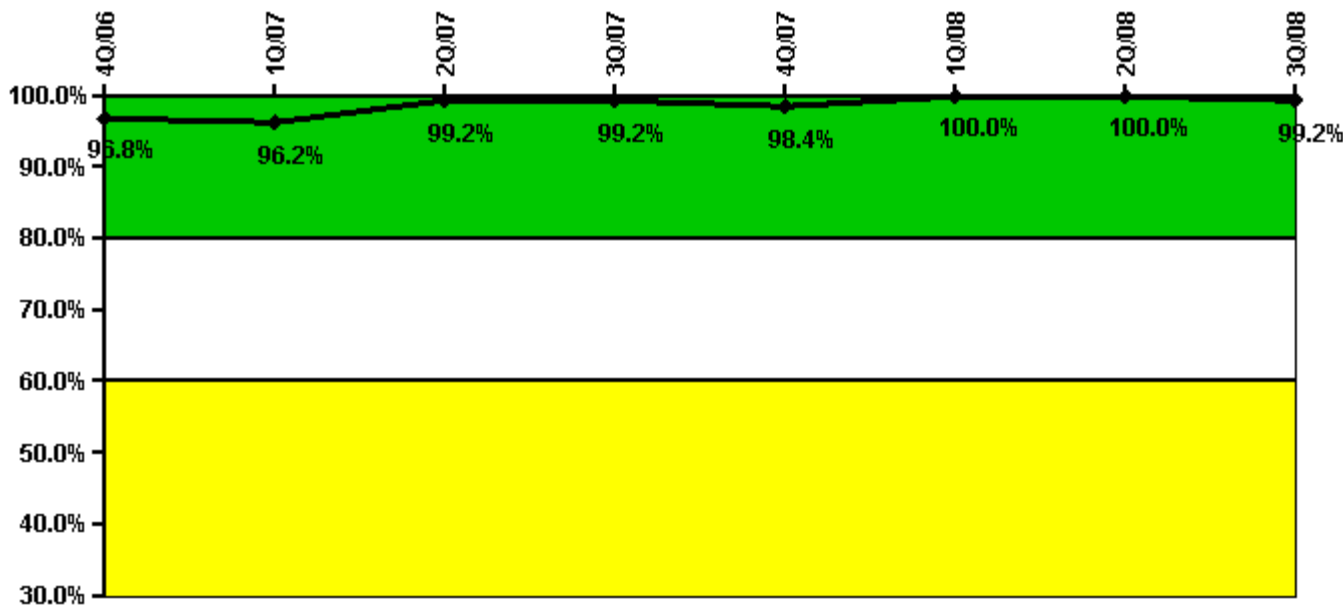
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful opportunities	25.0	18.0	28.0	22.0	19.0	58.0	42.0	44.0
Total opportunities	26.0	23.0	30.0	22.0	20.0	60.0	42.0	44.0
Indicator value	96.8%	96.5%	96.3%	95.5%	95.3%	95.7%	95.8%	95.9%

Licensee Comments: none

ERO Drill Participation



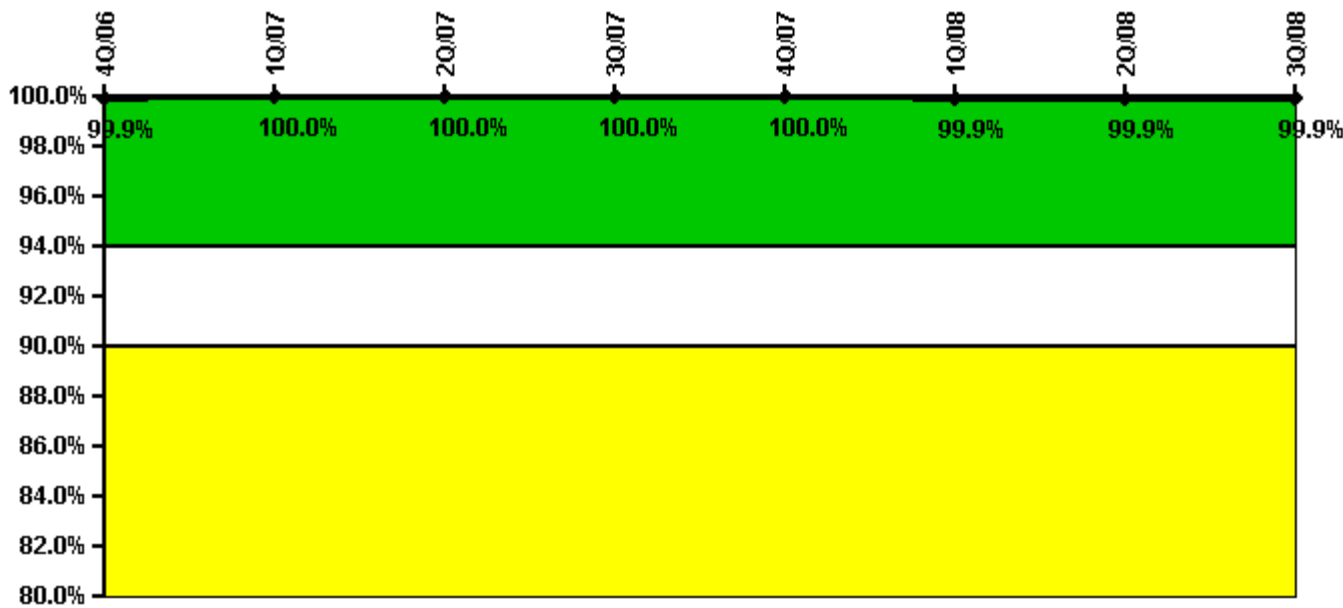
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Participating Key personnel	121.0	126.0	125.0	123.0	122.0	117.0	112.0	119.0
Total Key personnel	125.0	131.0	126.0	124.0	124.0	117.0	112.0	120.0
Indicator value	96.8%	96.2%	99.2%	99.2%	98.4%	100.0%	100.0%	99.2%

Licensee Comments: none

Alert & Notification System



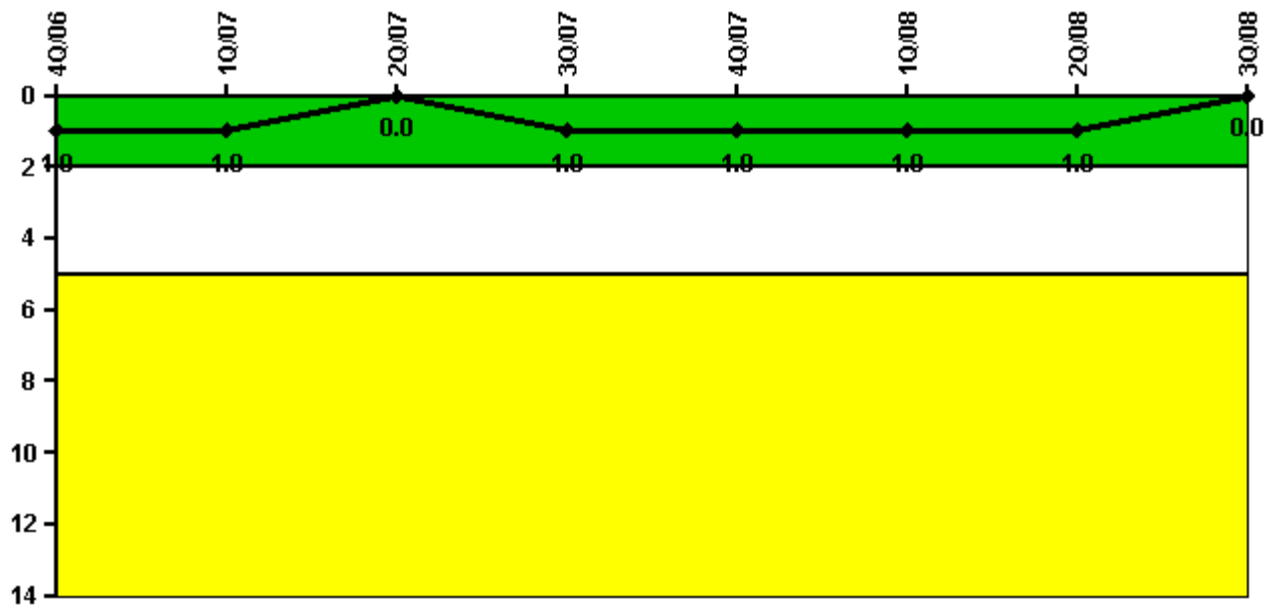
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful siren-tests	183	183	183	183	183	182	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.9%	100.0%	100.0%	100.0%	100.0%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



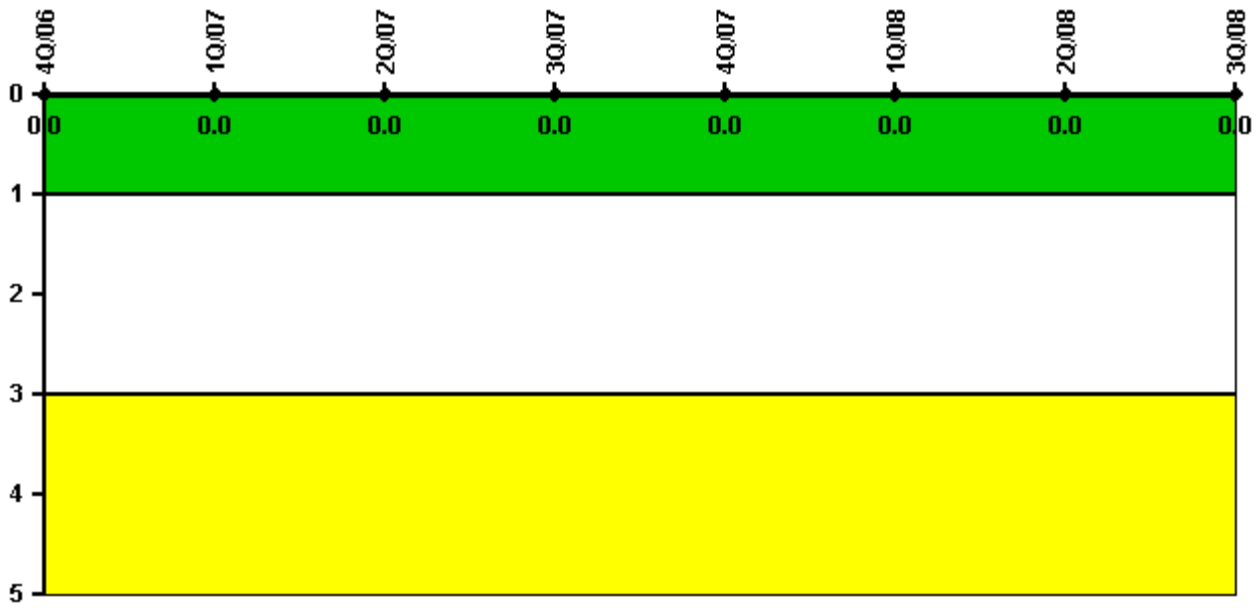
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

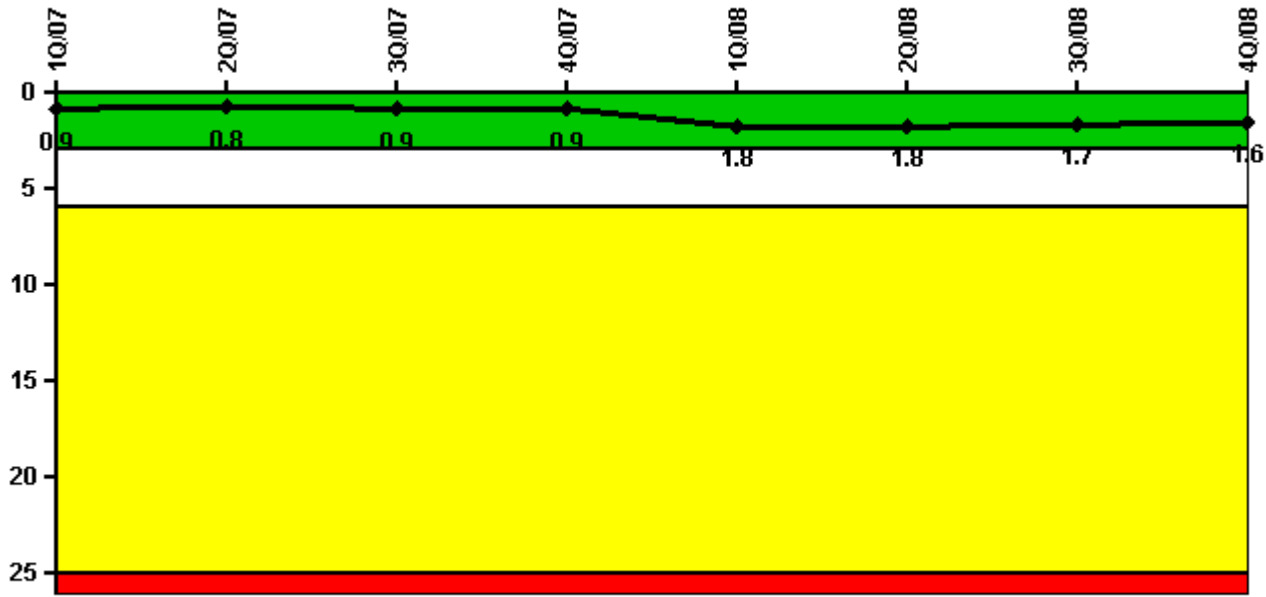
[Security](#) information not publicly available.

Palisades

4Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



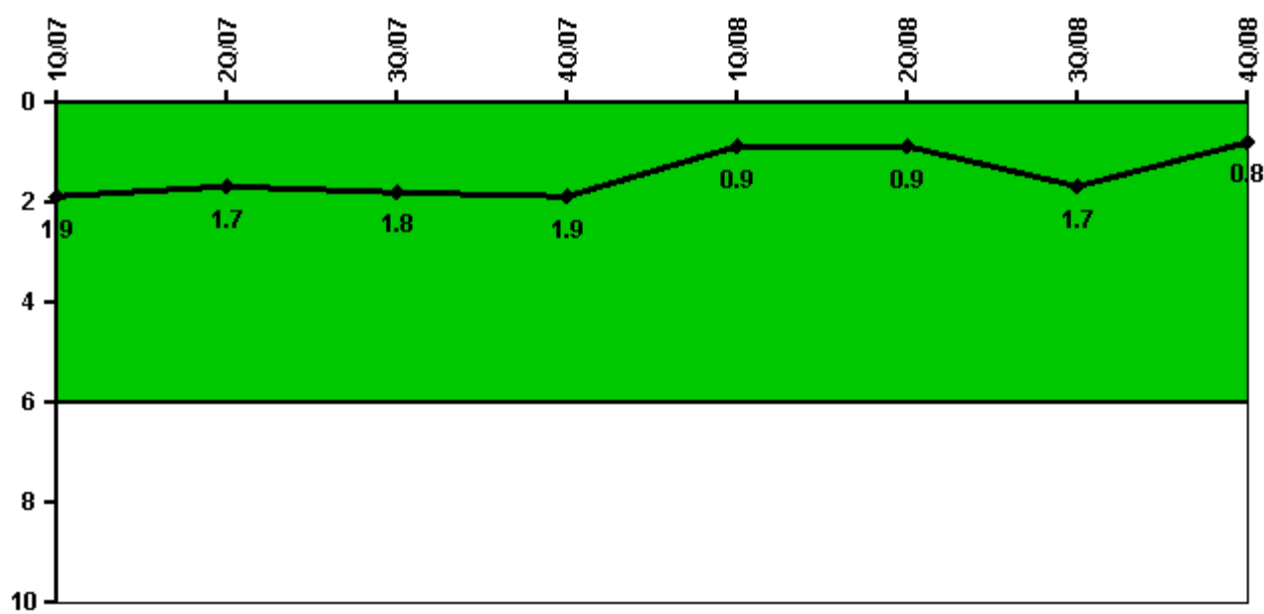
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	1.0	1.0	0	0
Critical hours	1987.0	2049.2	1691.0	1749.1	2148.2	2158.1	2113.1	2209.0
Indicator value	0.9	0.8	0.9	0.9	1.8	1.8	1.7	1.6

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



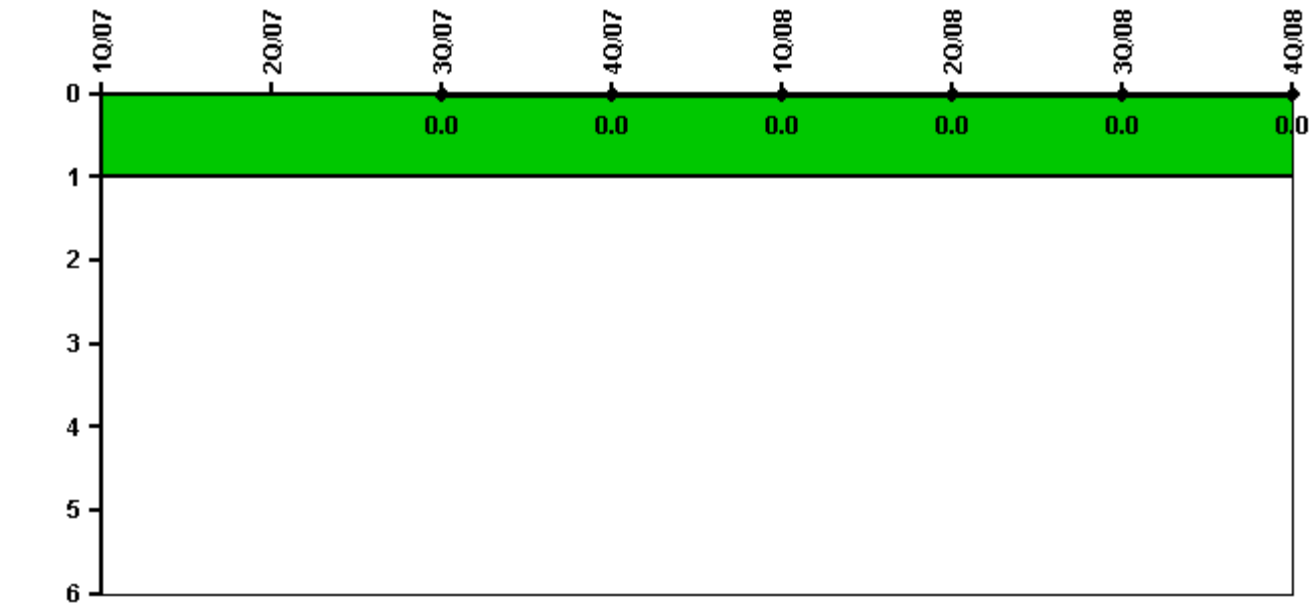
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned power changes	1.0	0	0	1.0	0	0	1.0	0
Critical hours	1987.0	2049.2	1691.0	1749.1	2148.2	2158.1	2113.1	2209.0
Indicator value	1.9	1.7	1.8	1.9	0.9	0.9	1.7	0.8

Licensee Comments: none

Unplanned Scrams with Complications



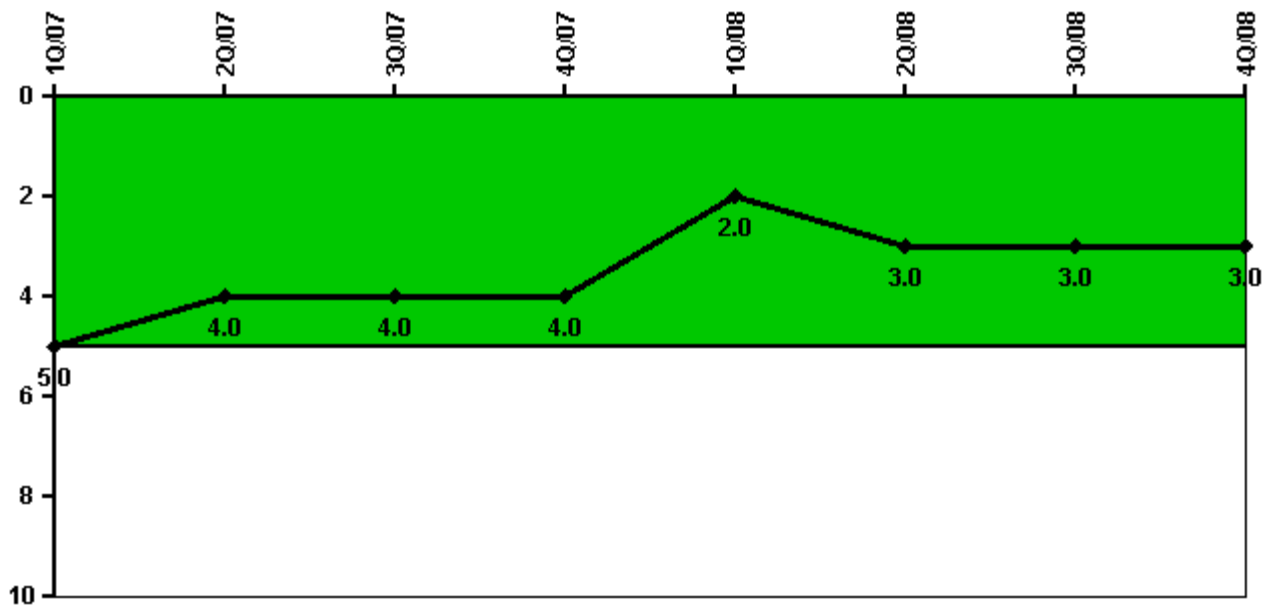
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

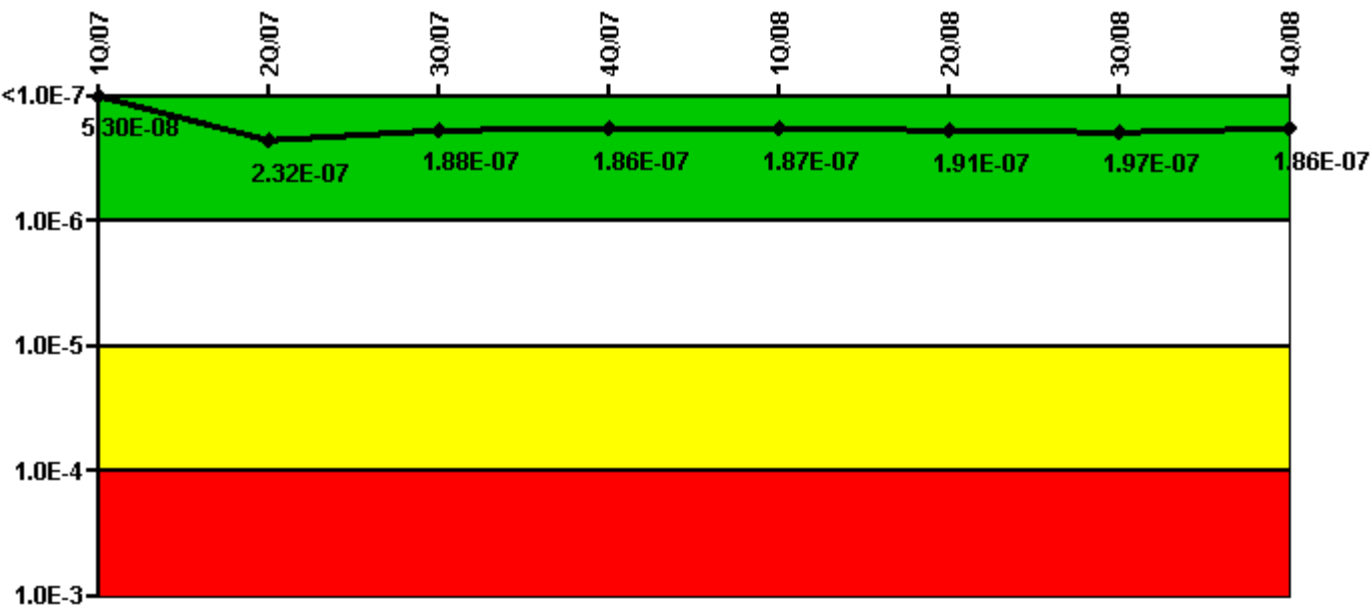
Notes

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

Licensee Comments:

4Q/08: There were two LERs submitted in December 2008 that identified SSFFs: LER 2008-006, Emergency Diesel Generator Inoperable in Excess of Technical Specification Requirements. LER 2008-007 Non-conservative auxiliary feedwater suction pressure trip setpoints created a condition that could have prevented fulfillment of a safety function.

Mitigating Systems Performance Index, Emergency AC Power System



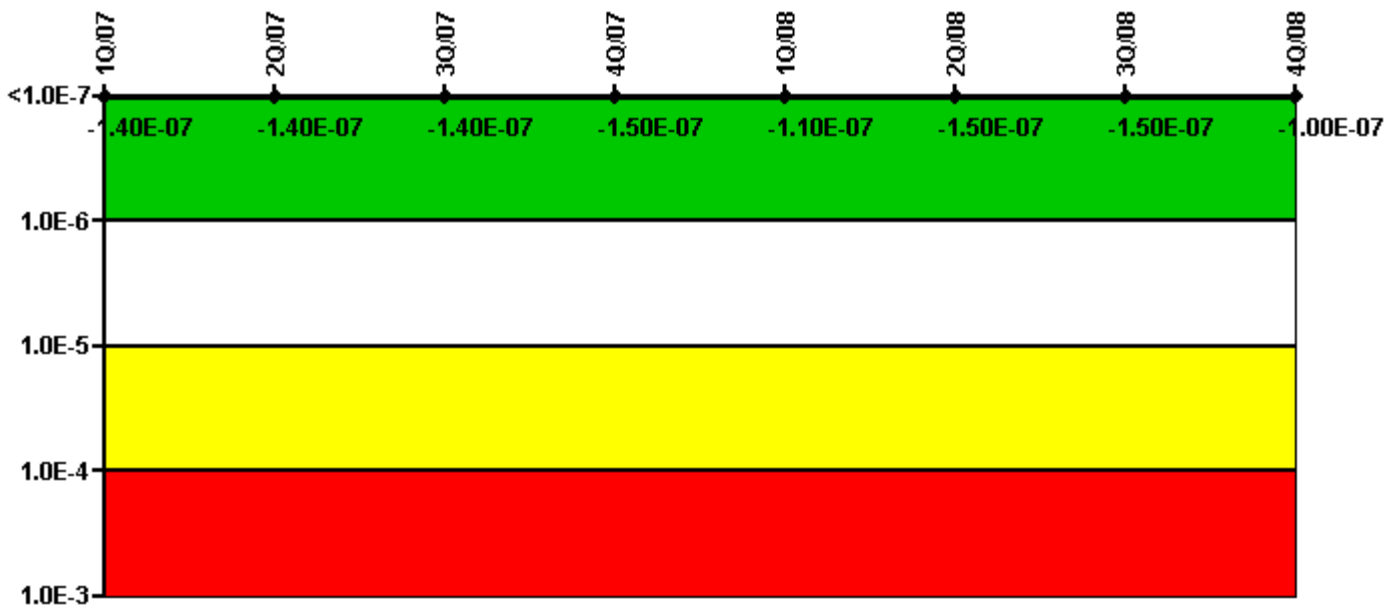
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	6.50E-08	8.20E-08	3.80E-08	3.60E-08	3.70E-08	4.10E-08	4.70E-08	3.60E-08
URI (ΔCDF)	-1.20E-08	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	5.30E-08	2.32E-07	1.88E-07	1.86E-07	1.87E-07	1.91E-07	1.97E-07	1.86E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



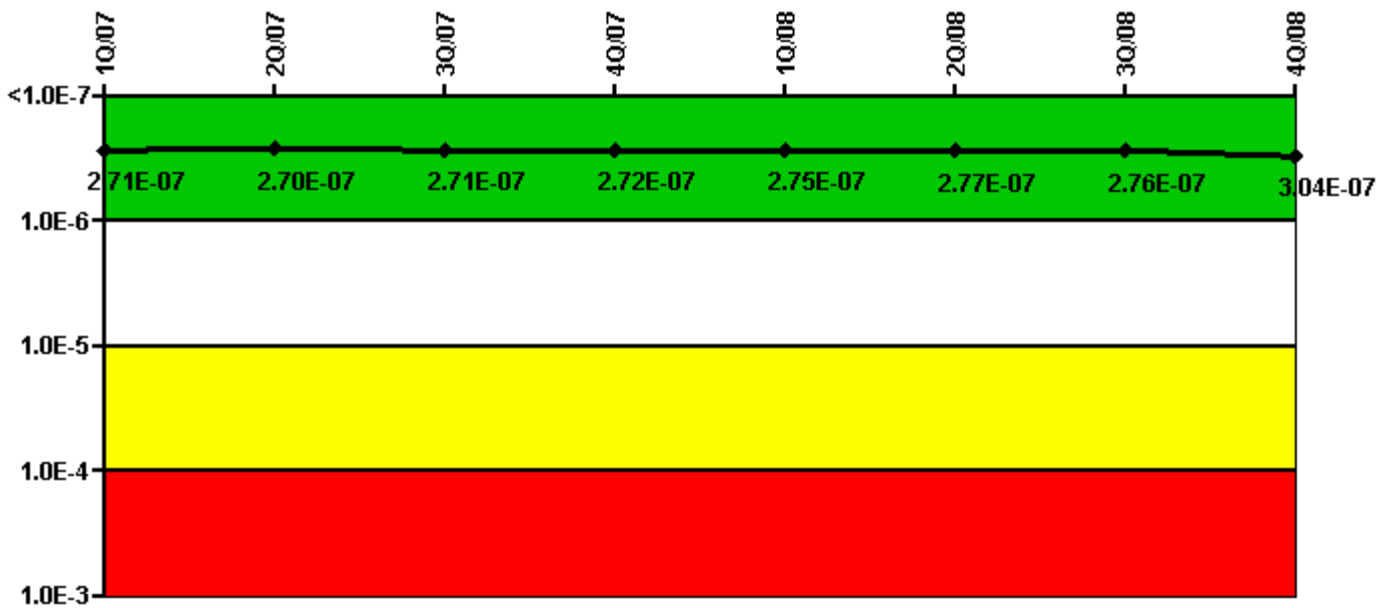
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	1.30E-07	1.30E-07	1.30E-07	1.20E-07	1.60E-07	1.20E-07	1.20E-07	1.70E-07
URI (ΔCDF)	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.10E-07	-1.50E-07	-1.50E-07	-1.00E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



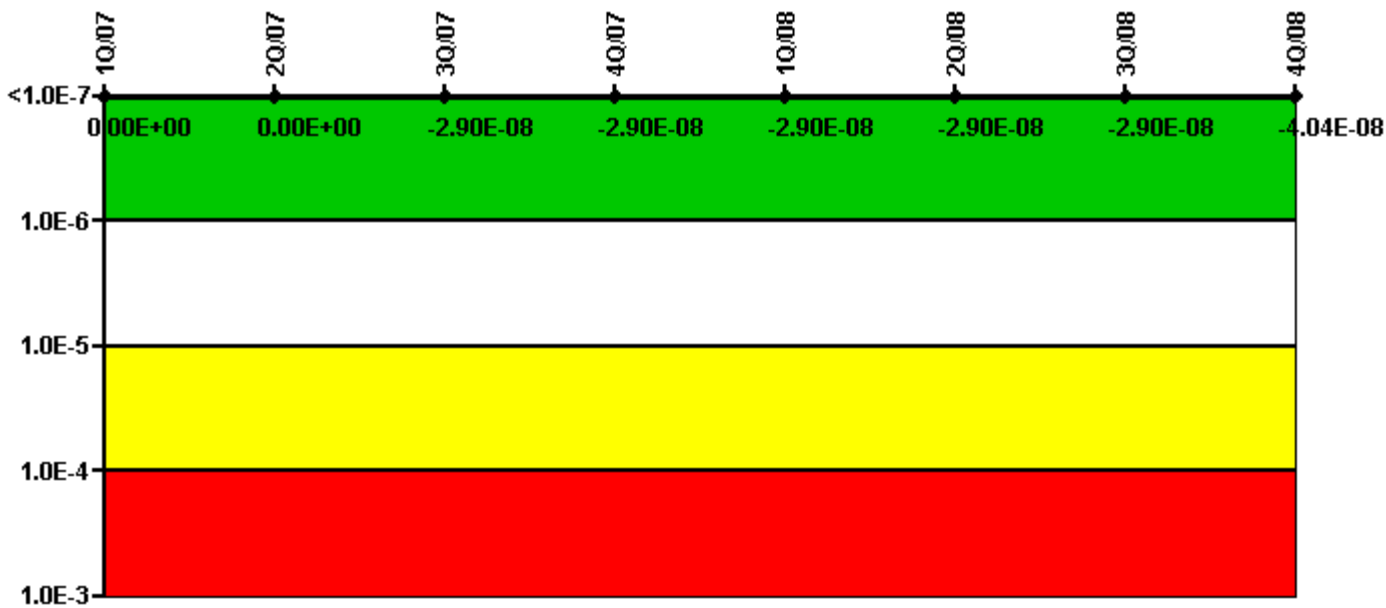
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	-9.40E-09	-1.00E-08	-8.90E-09	-8.00E-09	-5.40E-09	-3.30E-09	-3.60E-09	2.40E-08
URI (ΔCDF)	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.71E-07	2.70E-07	2.71E-07	2.72E-07	2.75E-07	2.77E-07	2.76E-07	3.04E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



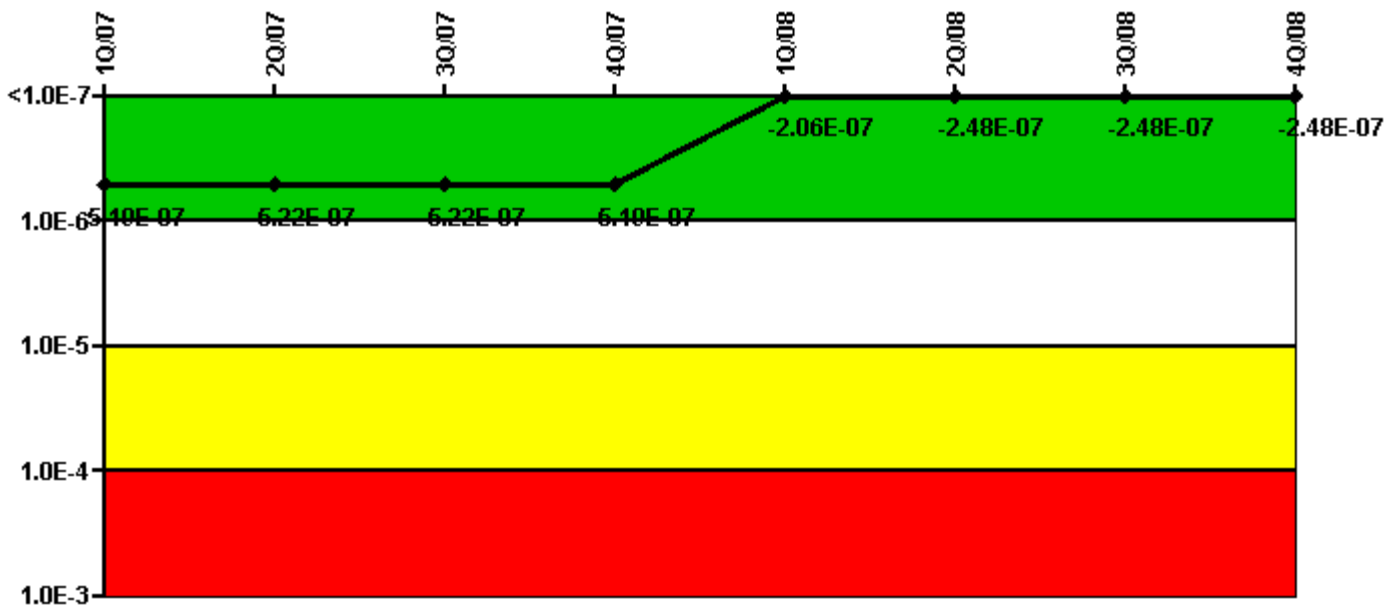
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	4.00E-08	4.00E-08	1.10E-08	1.10E-08	1.10E-08	1.10E-08	1.10E-08	-3.90E-10
URI (ΔCDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	0.00E+00	0.00E+00	-2.90E-08	-2.90E-08	-2.90E-08	-2.90E-08	-2.90E-08	-4.04E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



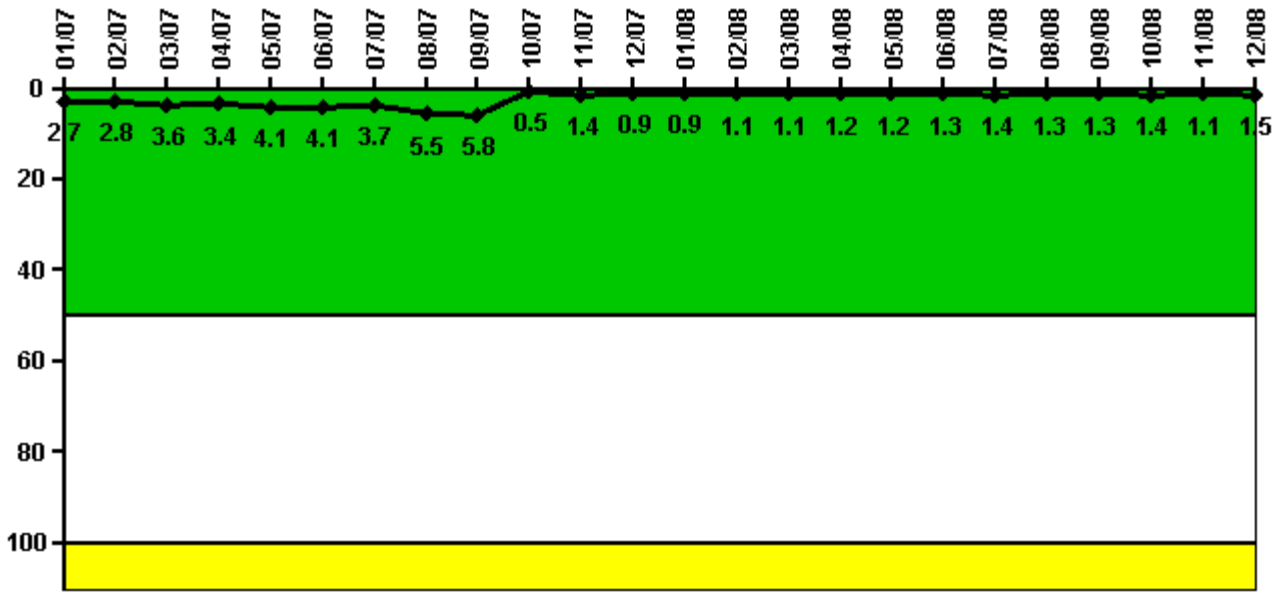
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	3.90E-08	4.20E-08	4.20E-08	3.90E-08	1.40E-08	-2.80E-08	-2.80E-08	-2.80E-08
URI (ΔCDF)	4.80E-07	4.80E-07	4.80E-07	4.80E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.19E-07	5.22E-07	5.22E-07	5.19E-07	-2.06E-07	-2.48E-07	-2.48E-07	-2.48E-07

Licensee Comments: none

Reactor Coolant System Activity



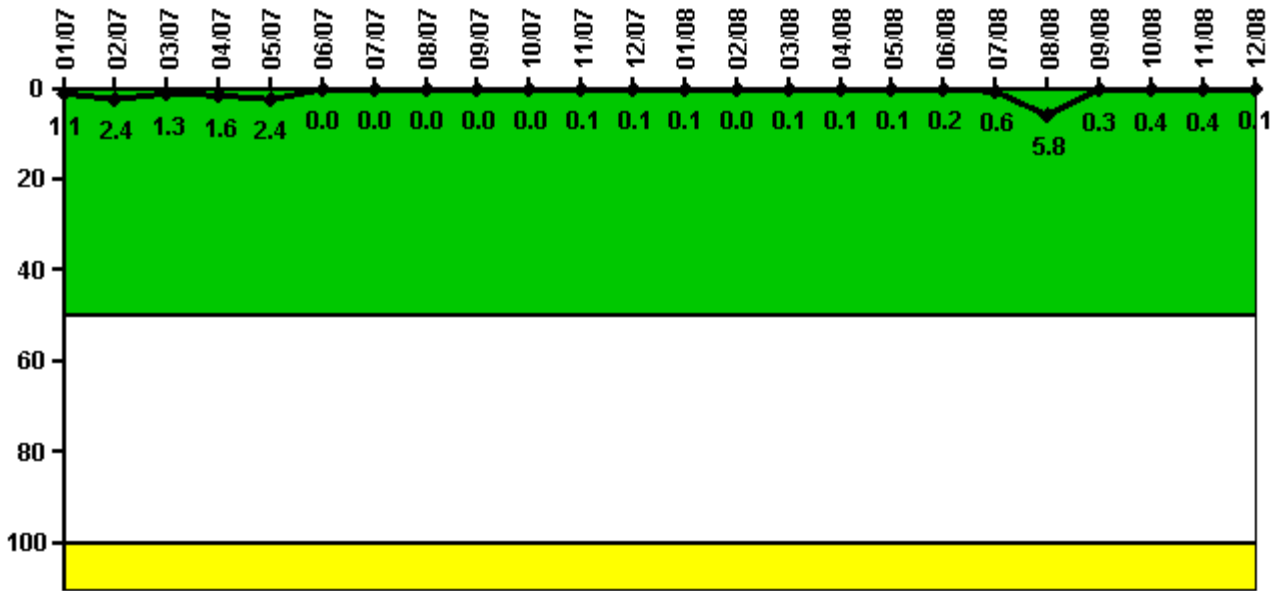
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum activity	0.027300	0.028200	0.036000	0.033800	0.040800	0.041000	0.037000	0.055400	0.058400	0.005210	0.013800	0.009210
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	2.7	2.8	3.6	3.4	4.1	4.1	3.7	5.5	5.8	0.5	1.4	0.9
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	0.009320	0.010600	0.011200	0.011500	0.012200	0.012900	0.014000	0.013200	0.013200	0.013700	0.010800	0.014600
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.9	1.1	1.1	1.2	1.2	1.3	1.4	1.3	1.3	1.4	1.1	1.5

Licensee Comments: none

Reactor Coolant System Leakage



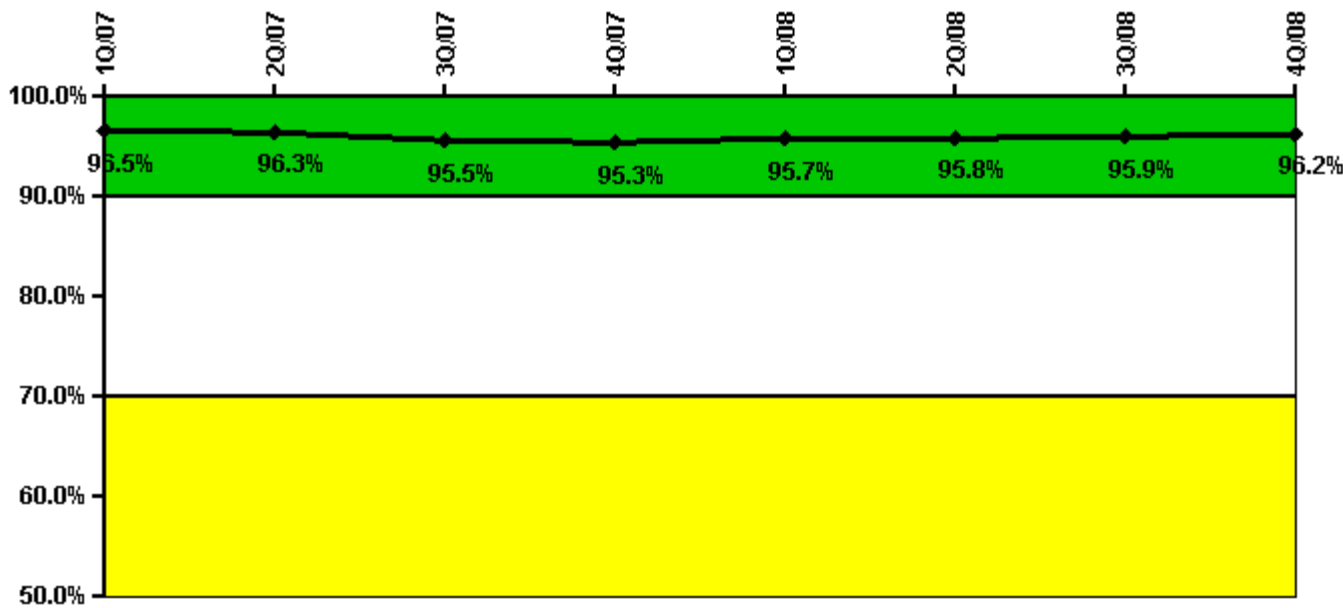
Thresholds: White > 50.0 Yellow > 100.0

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	0.111	0.238	0.125	0.164	0.238	0.001	0.001	0.001	0.001	0.004	0.005	0.005
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.1	2.4	1.3	1.6	2.4	0	0	0	0	0	0.1	0.1
Reactor Coolant System Leakage	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum leakage	0.005	0.004	0.007	0.007	0.008	0.017	0.055	0.576	0.029	0.040	0.040	0.007
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	0	0.1	0.1	0.1	0.2	0.6	5.8	0.3	0.4	0.4	0.1

Licensee Comments: none

Drill/Exercise Performance



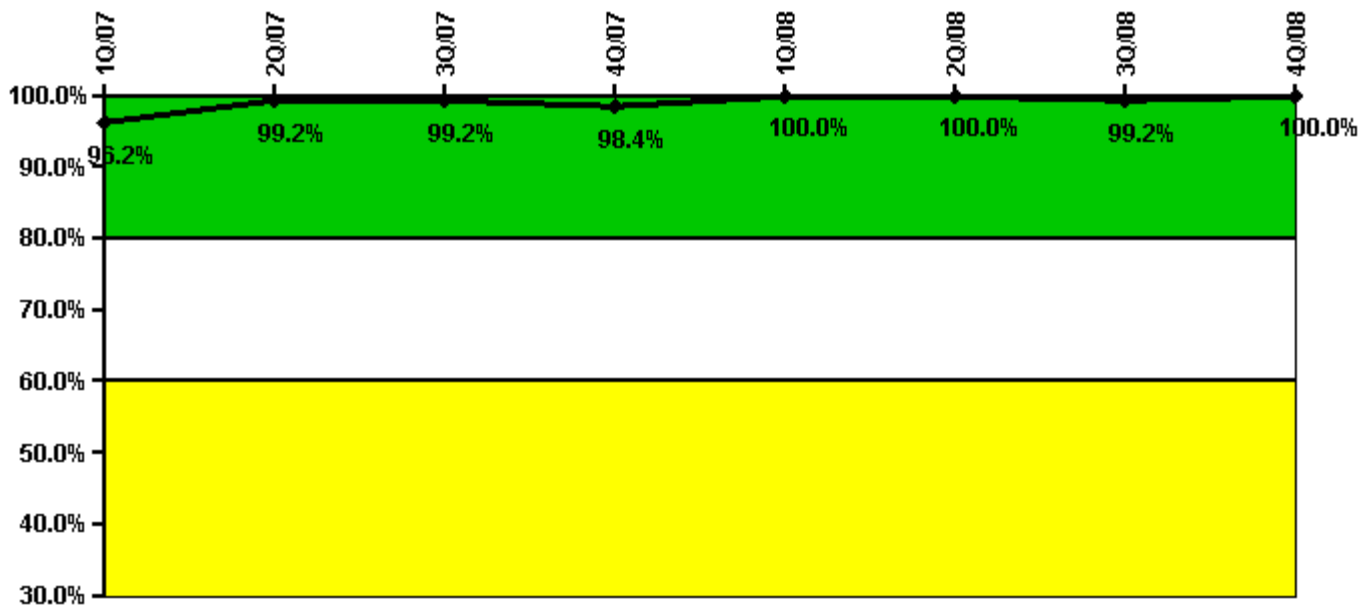
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful opportunities	18.0	28.0	22.0	19.0	58.0	42.0	44.0	45.0
Total opportunities	23.0	30.0	22.0	20.0	60.0	42.0	44.0	46.0
Indicator value	96.5%	96.3%	95.5%	95.3%	95.7%	95.8%	95.9%	96.2%

Licensee Comments: none

ERO Drill Participation



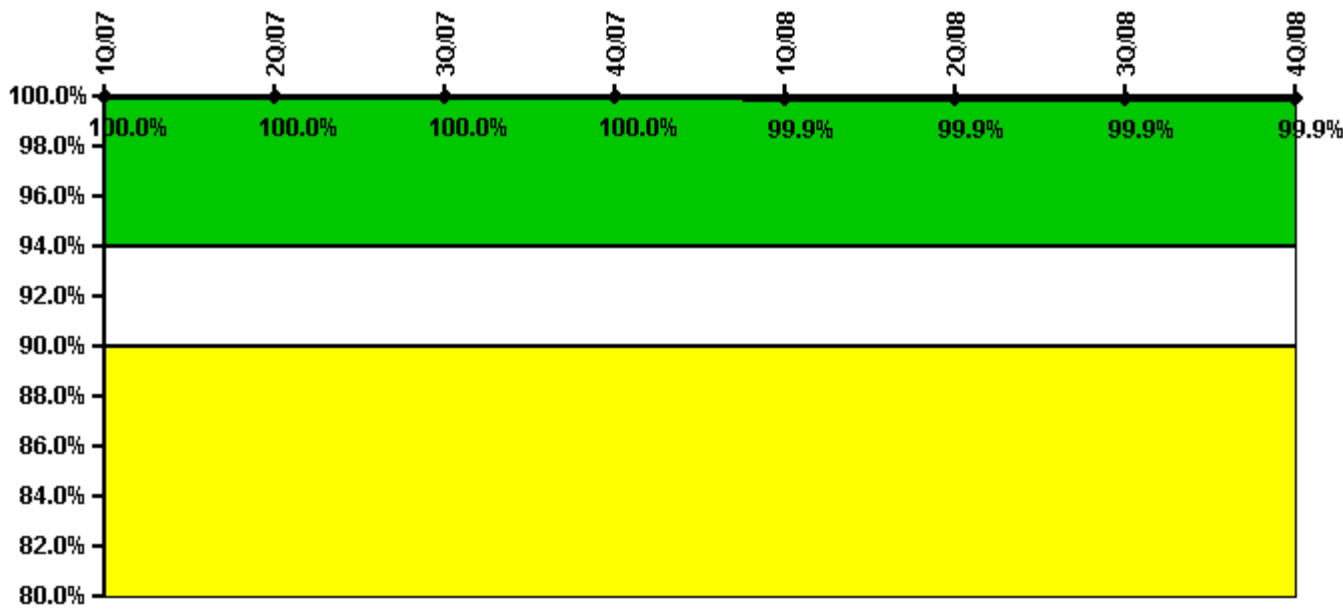
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Participating Key personnel	126.0	125.0	123.0	122.0	117.0	112.0	119.0	118.0
Total Key personnel	131.0	126.0	124.0	124.0	117.0	112.0	120.0	118.0
Indicator value	96.2%	99.2%	99.2%	98.4%	100.0%	100.0%	99.2%	100.0%

Licensee Comments: none

Alert & Notification System



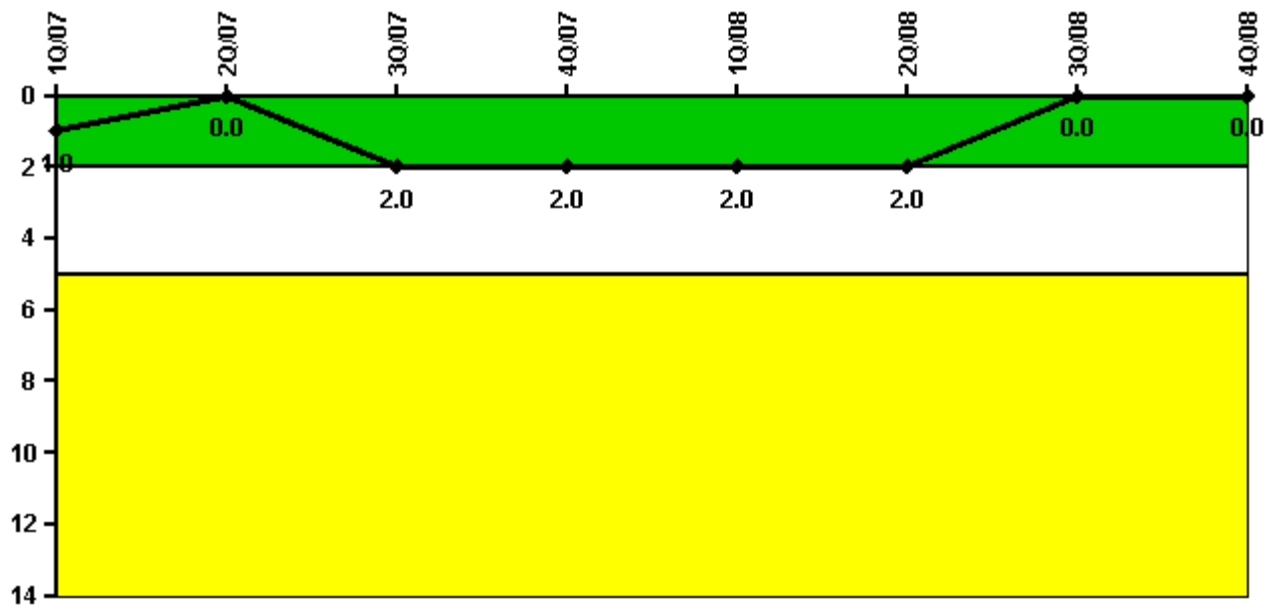
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful siren-tests	183	183	183	183	182	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	100.0%	100.0%	100.0%	100.0%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



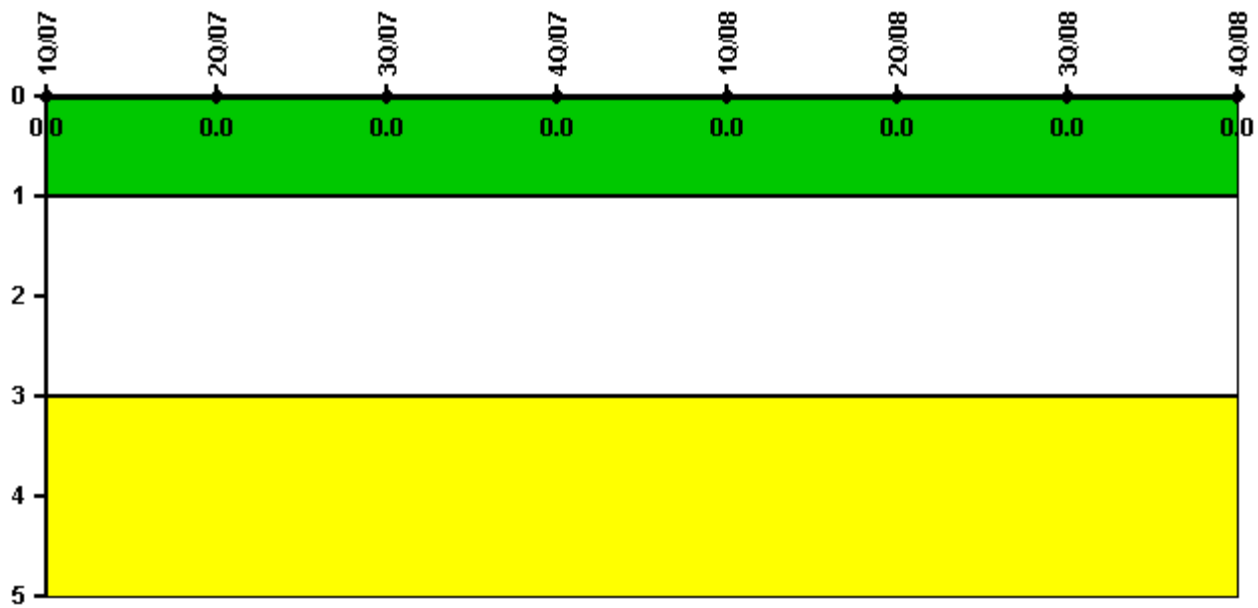
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

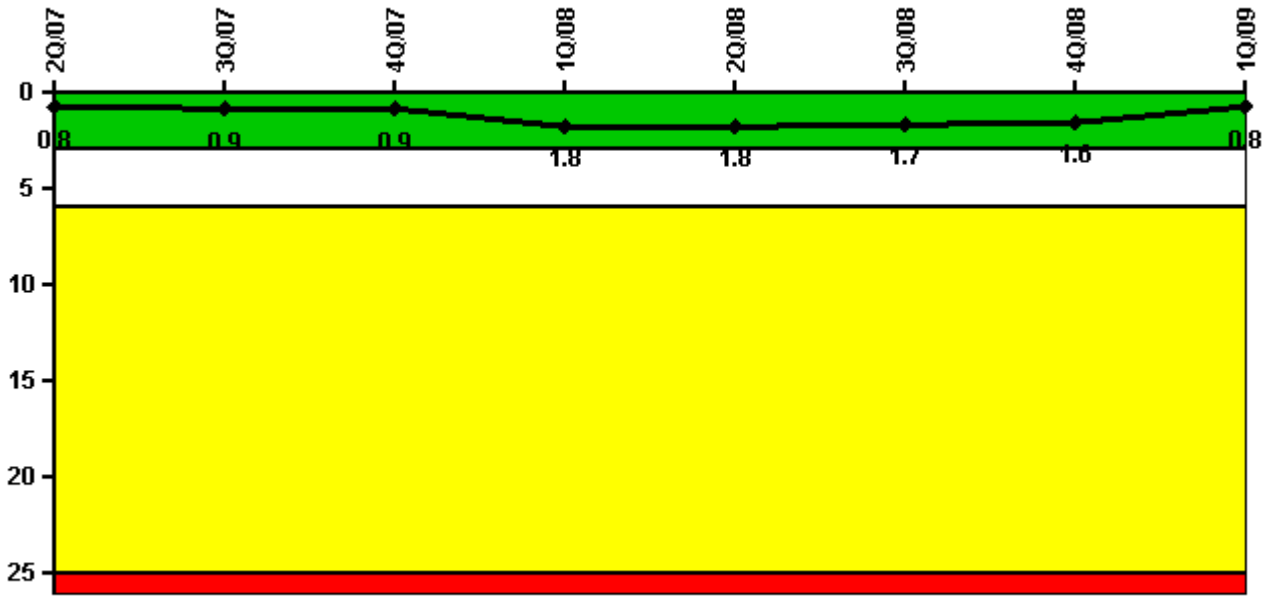
[Security](#) information not publicly available.

Palisades

1Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



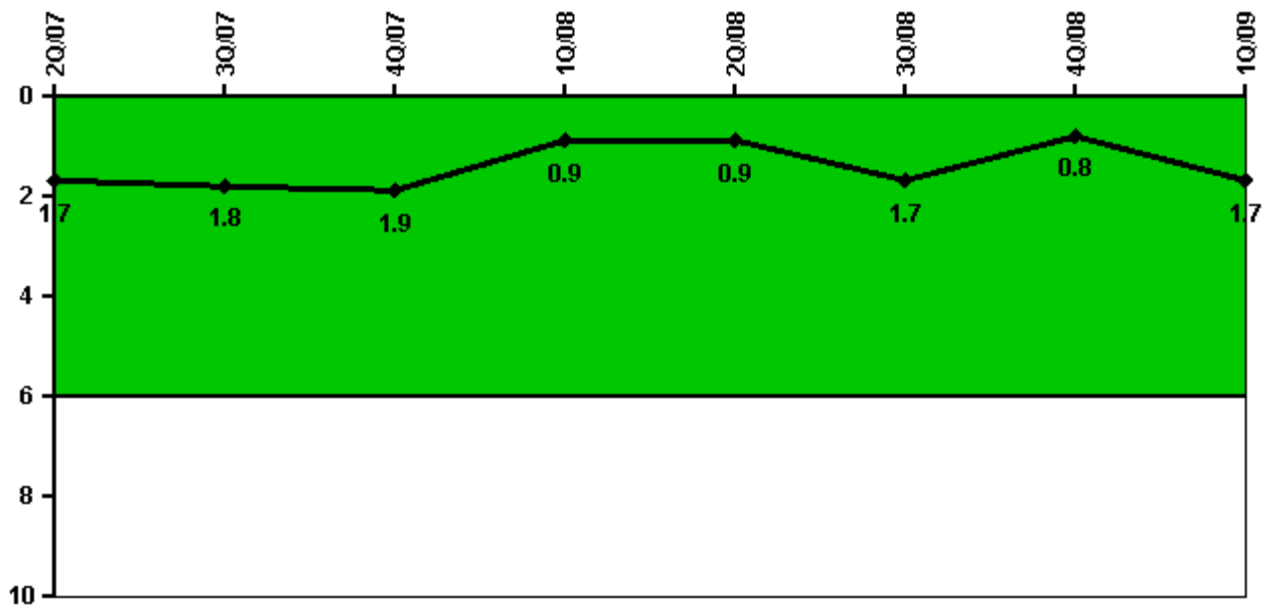
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	1.0	1.0	0	0	0
Critical hours	2049.2	1691.0	1749.1	2148.2	2158.1	2113.1	2209.0	1853.5
Indicator value	0.8	0.9	0.9	1.8	1.8	1.7	1.6	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



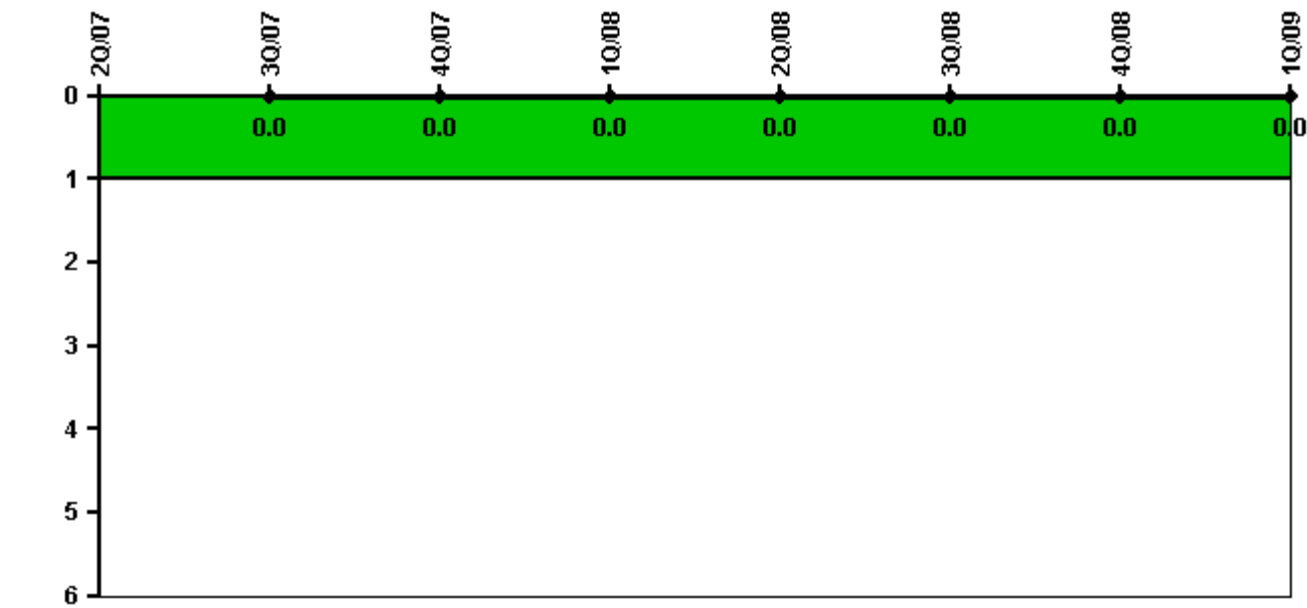
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned power changes	0	0	1.0	0	0	1.0	0	1.0
Critical hours	2049.2	1691.0	1749.1	2148.2	2158.1	2113.1	2209.0	1853.5
Indicator value	1.7	1.8	1.9	0.9	0.9	1.7	0.8	1.7

Licensee Comments: none

Unplanned Scrams with Complications



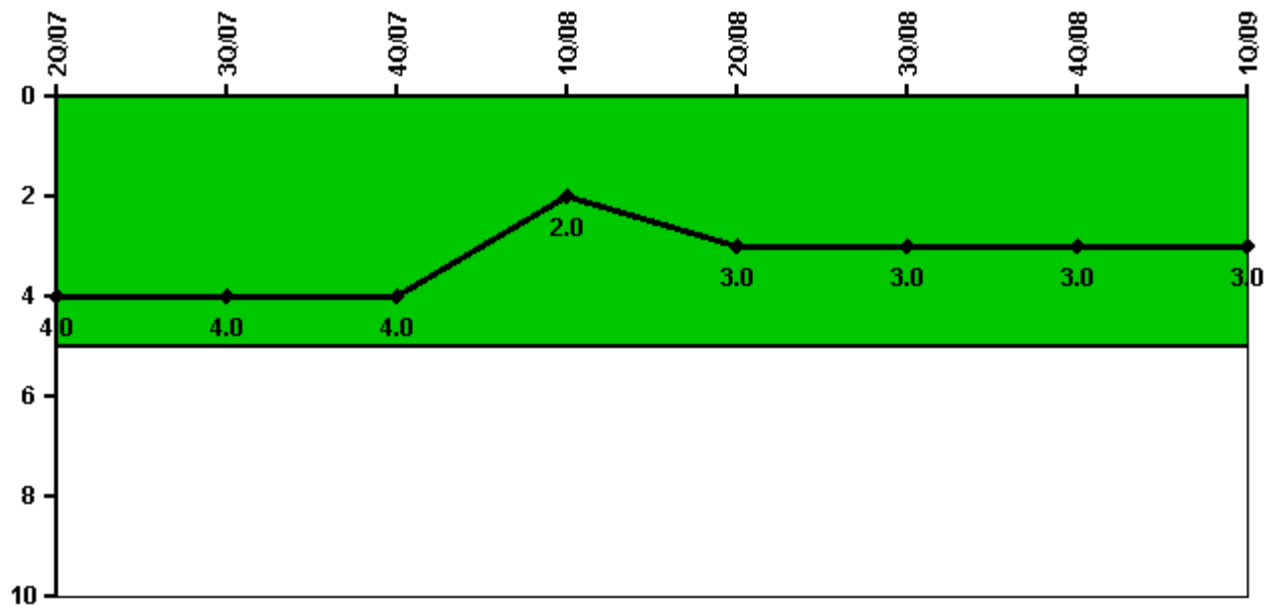
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



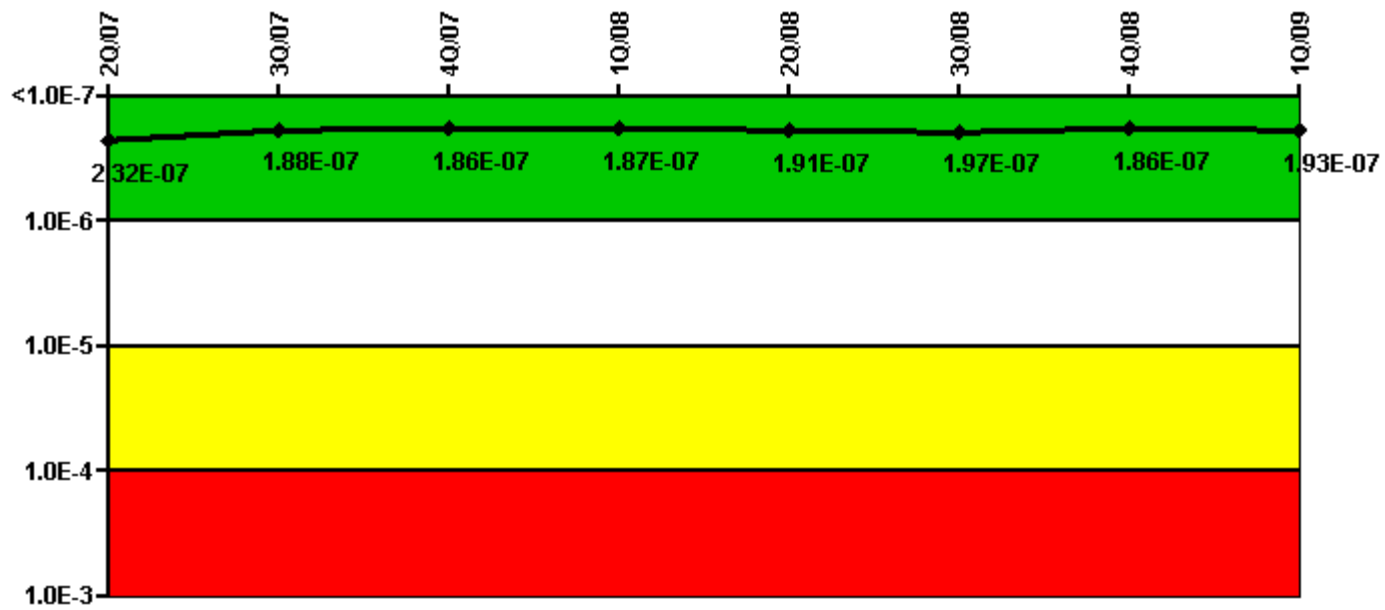
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



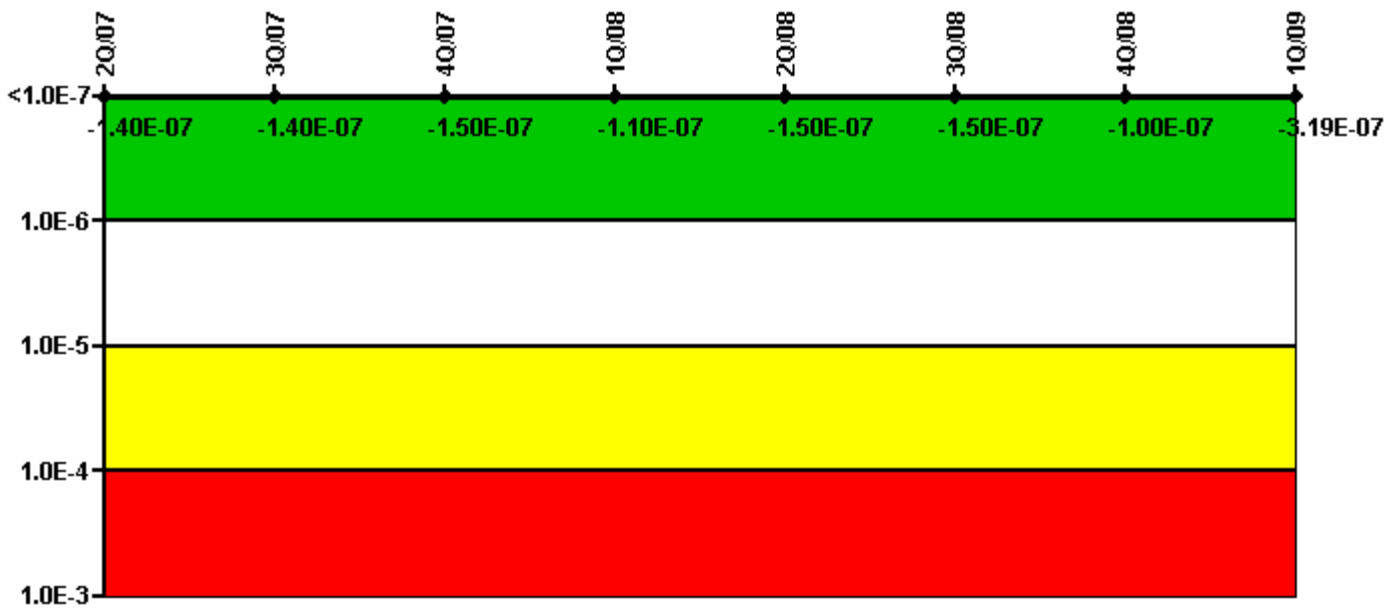
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	8.20E-08	3.80E-08	3.60E-08	3.70E-08	4.10E-08	4.70E-08	3.60E-08	4.30E-08
URI (ΔCDF)	1.50E-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	2.32E-07	1.88E-07	1.86E-07	1.87E-07	1.91E-07	1.97E-07	1.86E-07	1.93E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



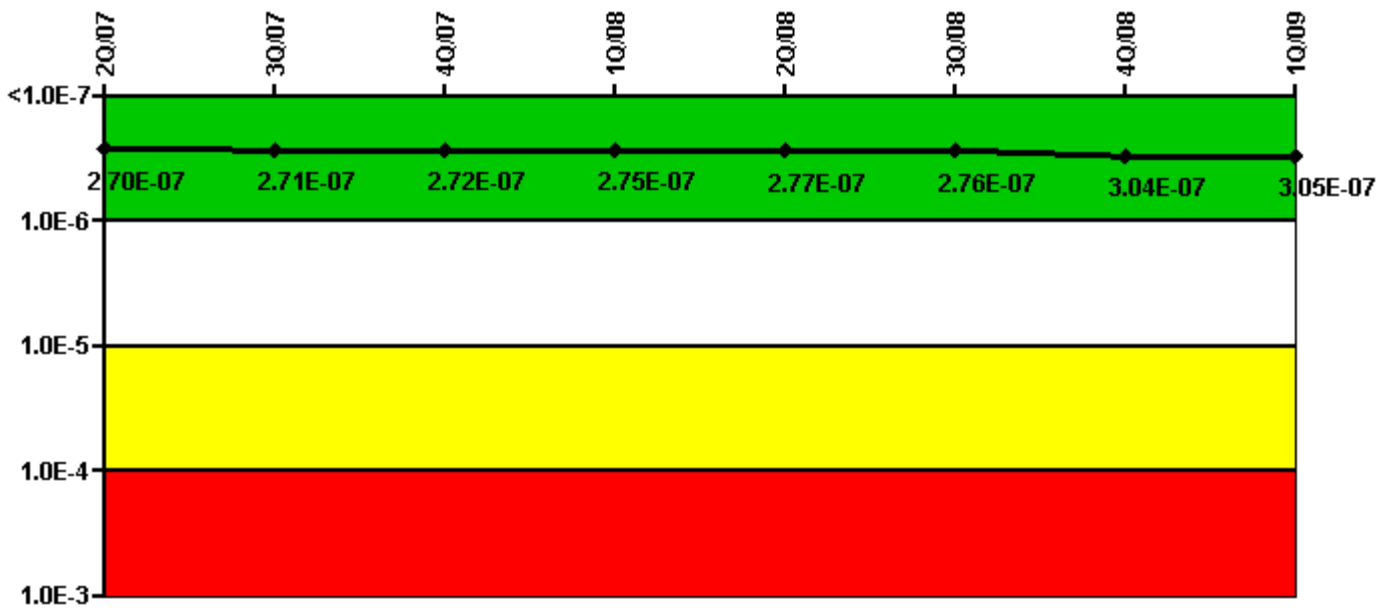
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	1.30E-07	1.30E-07	1.20E-07	1.60E-07	1.20E-07	1.20E-07	1.70E-07	-4.90E-08
URI (ΔCDF)	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-07	-1.40E-07	-1.50E-07	-1.10E-07	-1.50E-07	-1.50E-07	-1.00E-07	-3.19E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



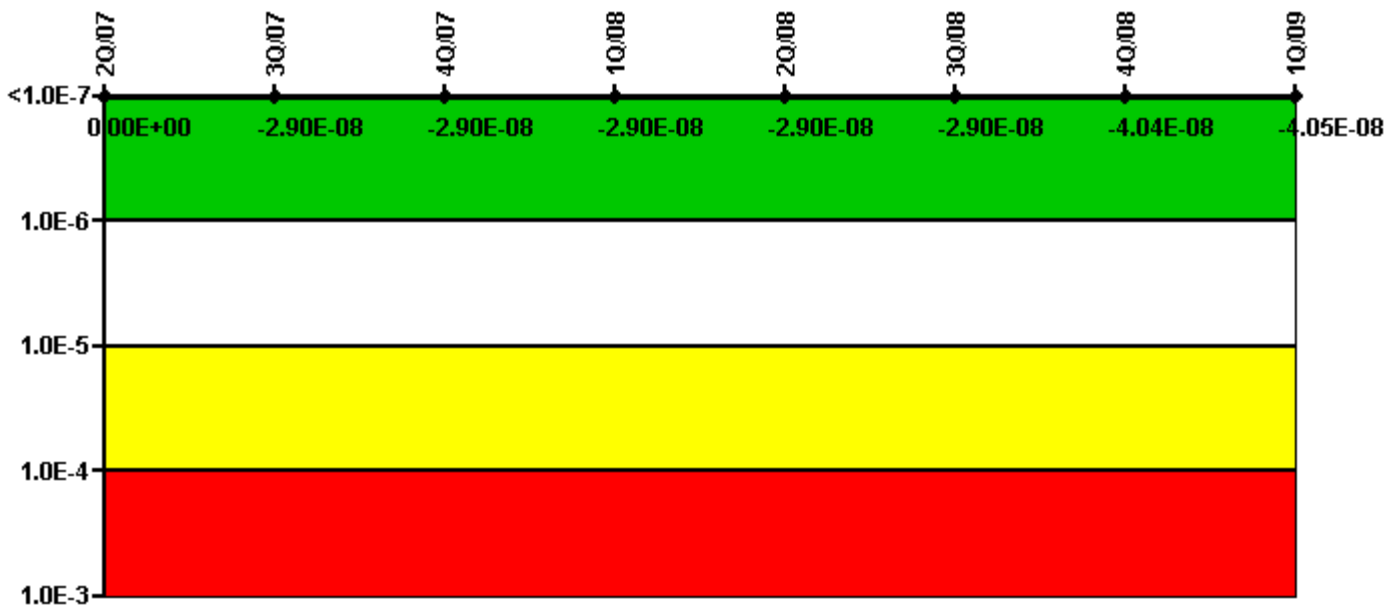
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	-1.00E-08	-8.90E-09	-8.00E-09	-5.40E-09	-3.30E-09	-3.60E-09	2.40E-08	2.50E-08
URI (ΔCDF)	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.70E-07	2.71E-07	2.72E-07	2.75E-07	2.77E-07	2.76E-07	3.04E-07	3.05E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



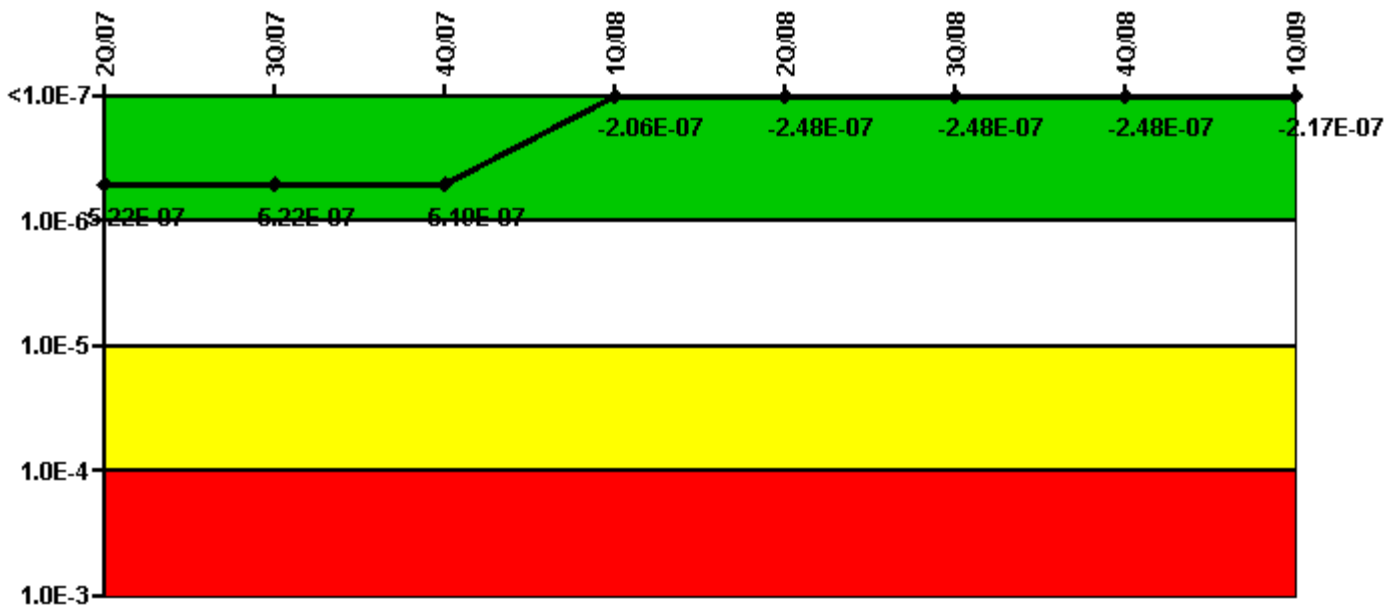
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	4.00E-08	1.10E-08	1.10E-08	1.10E-08	1.10E-08	1.10E-08	-3.90E-10	-4.80E-10
URI (ΔCDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	0.00E+00	-2.90E-08	-2.90E-08	-2.90E-08	-2.90E-08	-2.90E-08	-4.04E-08	-4.05E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



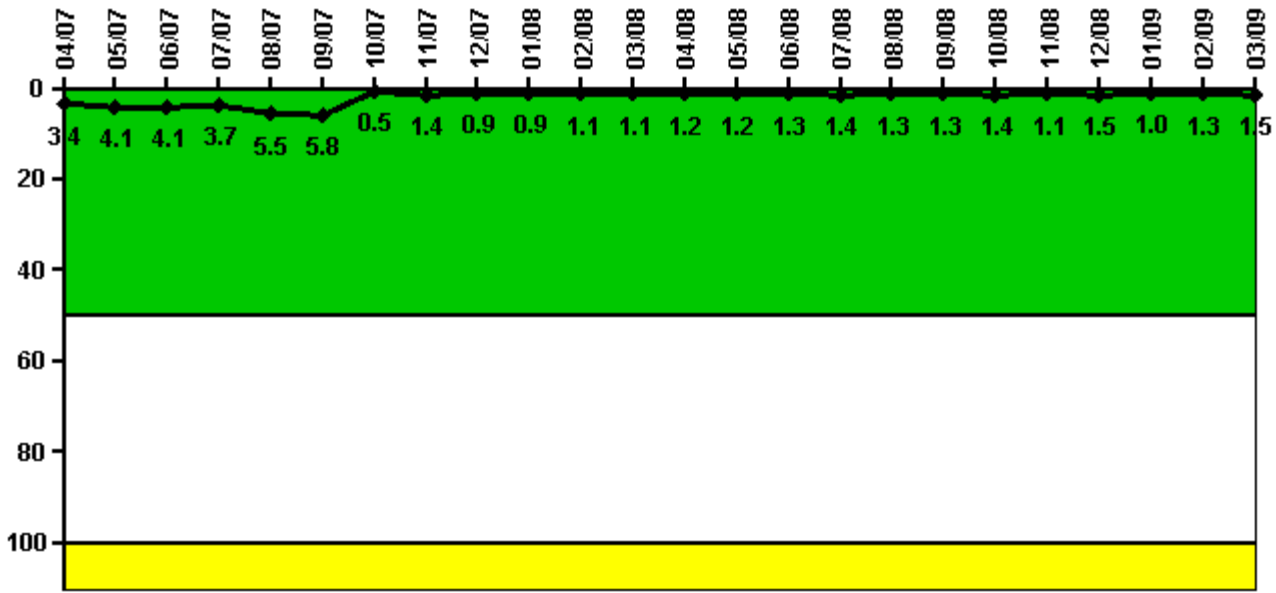
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	4.20E-08	4.20E-08	3.90E-08	1.40E-08	-2.80E-08	-2.80E-08	-2.80E-08	1.30E-08
URI (ΔCDF)	4.80E-07	4.80E-07	4.80E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.22E-07	5.22E-07	5.19E-07	-2.06E-07	-2.48E-07	-2.48E-07	-2.48E-07	-2.17E-07

Licensee Comments: none

Reactor Coolant System Activity



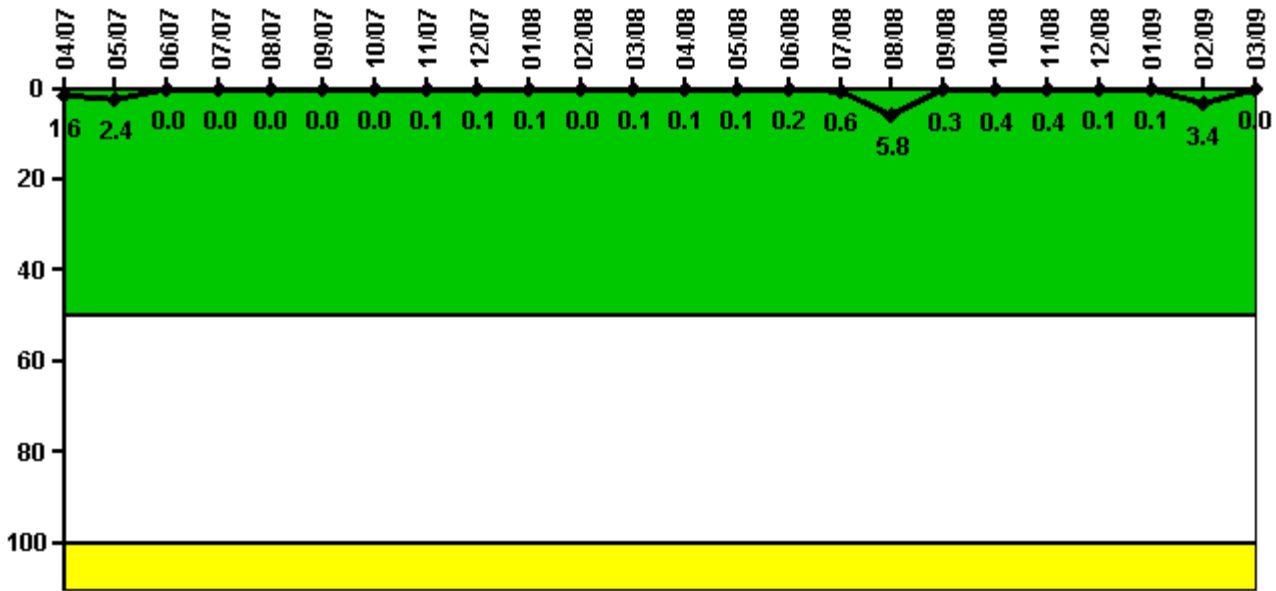
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum activity	0.033800	0.040800	0.041000	0.037000	0.055400	0.058400	0.005210	0.013800	0.009210	0.009320	0.010600	0.011200
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	3.4	4.1	4.1	3.7	5.5	5.8	0.5	1.4	0.9	0.9	1.1	1.1
Reactor Coolant System Activity	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum activity	0.011500	0.012200	0.012900	0.014000	0.013200	0.013200	0.013700	0.010800	0.014600	0.010400	0.013200	0.014800
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.2	1.2	1.3	1.4	1.3	1.3	1.4	1.1	1.5	1.0	1.3	1.5

Licensee Comments: none

Reactor Coolant System Leakage



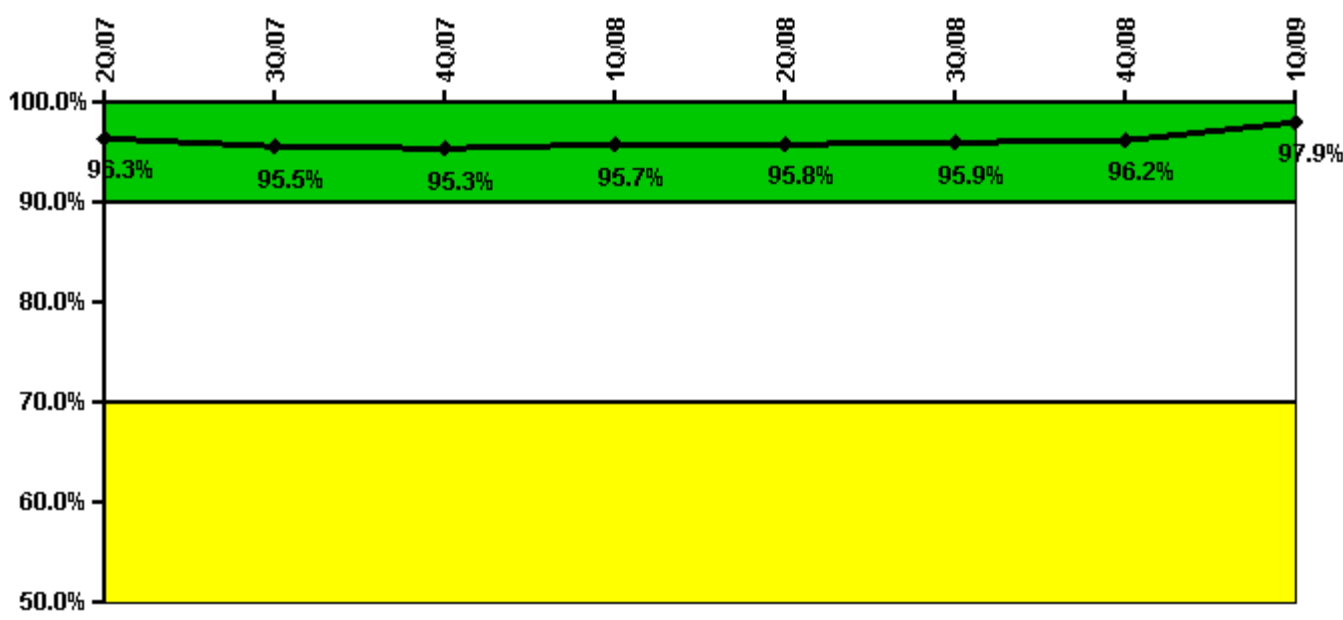
Thresholds: White > 50.0 Yellow > 100.0

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	0.164	0.238	0.001	0.001	0.001	0.001	0.004	0.005	0.005	0.005	0.004	0.007
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.6	2.4	0	0	0	0	0	0.1	0.1	0.1	0	0.1
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	0.007	0.008	0.017	0.055	0.576	0.029	0.040	0.040	0.007	0.013	0.341	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	0.1	0.2	0.6	5.8	0.3	0.4	0.4	0.1	0.1	3.4	0

Licensee Comments: none

Drill/Exercise Performance



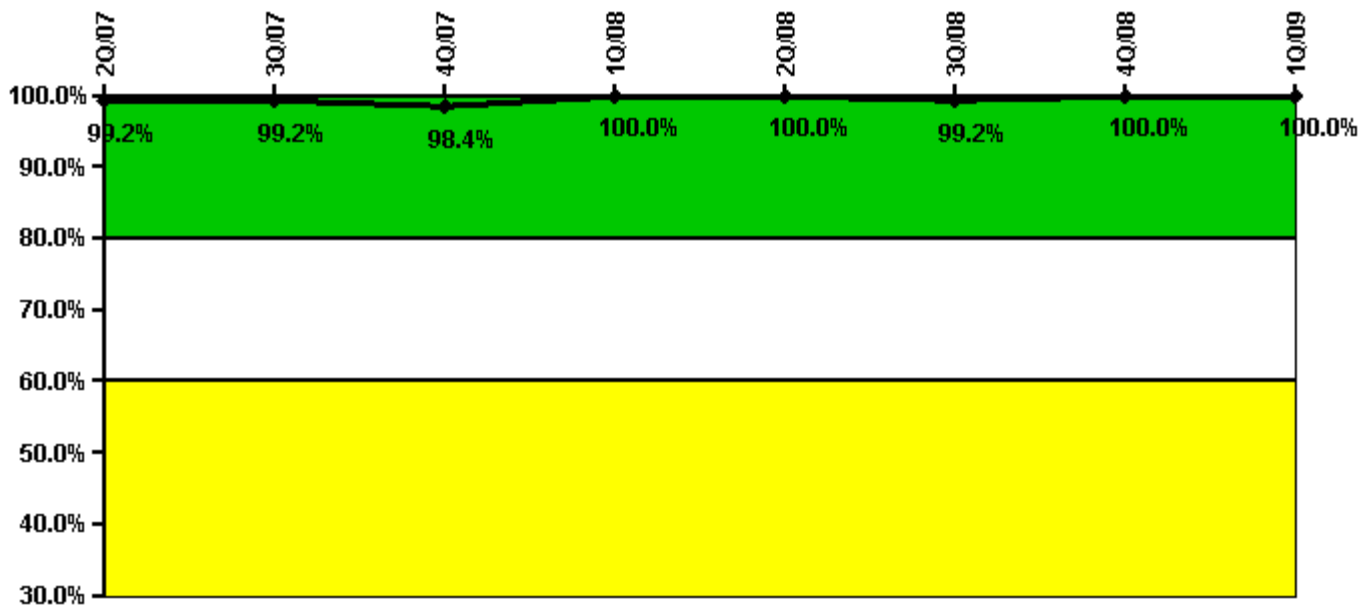
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful opportunities	28.0	22.0	19.0	58.0	42.0	44.0	45.0	65.0
Total opportunities	30.0	22.0	20.0	60.0	42.0	44.0	46.0	66.0
Indicator value	96.3%	95.5%	95.3%	95.7%	95.8%	95.9%	96.2%	97.9%

Licensee Comments: none

ERO Drill Participation



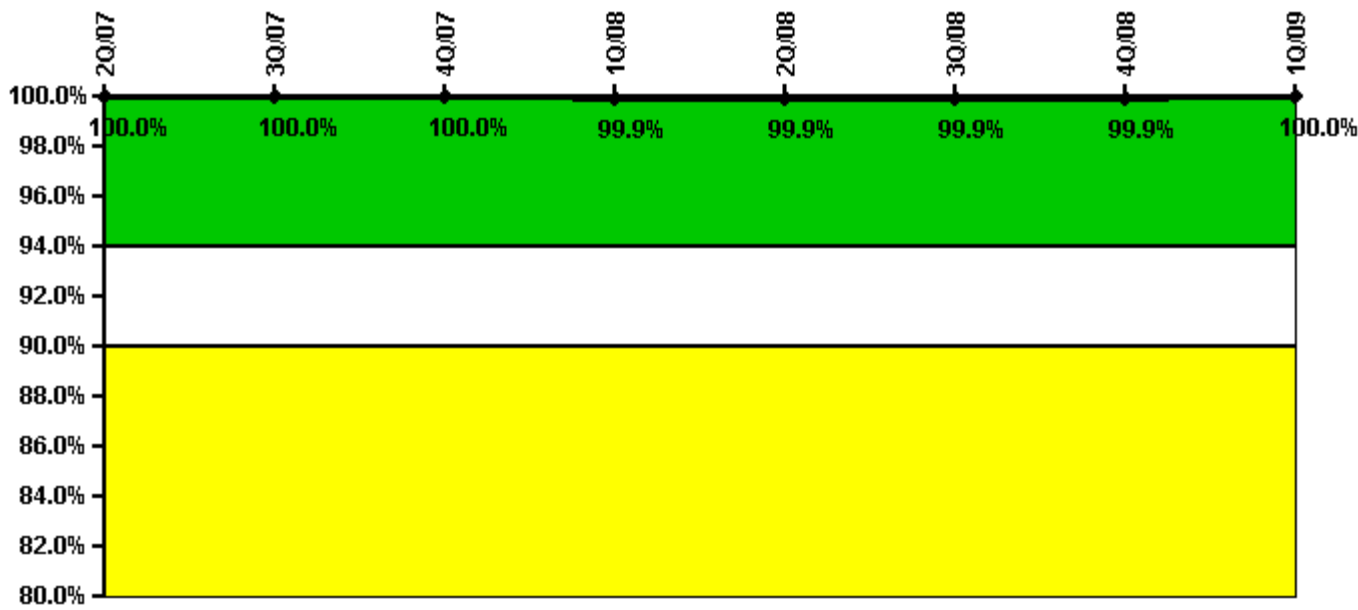
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Participating Key personnel	125.0	123.0	122.0	117.0	112.0	119.0	118.0	120.0
Total Key personnel	126.0	124.0	124.0	117.0	112.0	120.0	118.0	120.0
Indicator value	99.2%	99.2%	98.4%	100.0%	100.0%	99.2%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



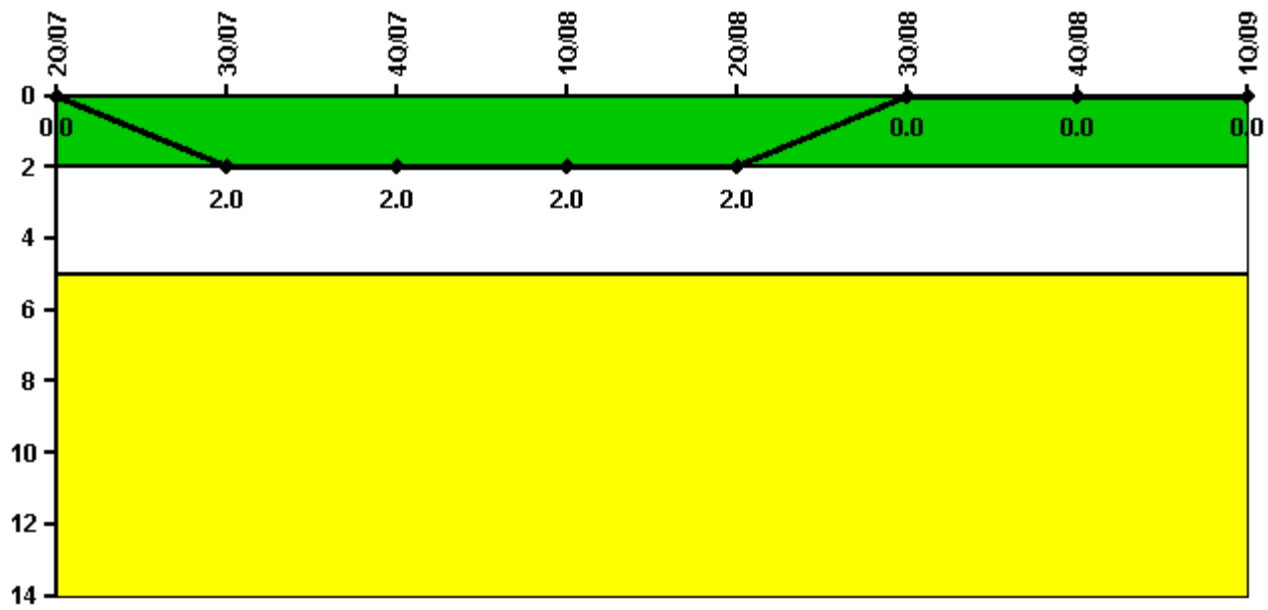
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful siren-tests	183	183	183	182	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	100.0%	100.0%	100.0%	99.9%	99.9%	99.9%	99.9%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



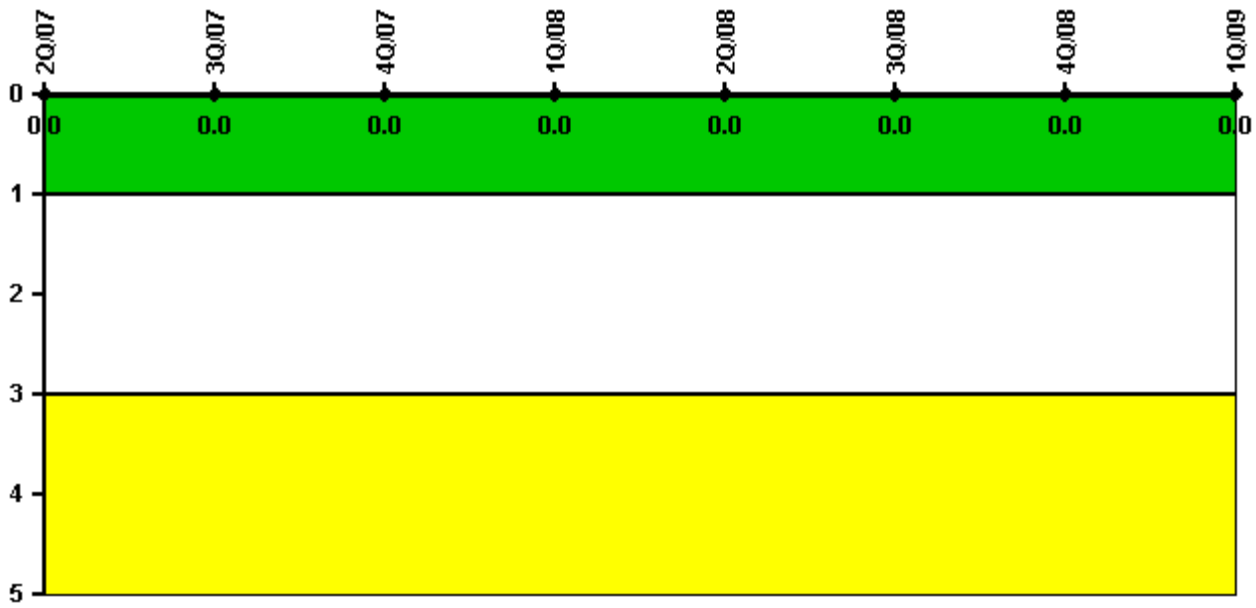
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
High radiation area occurrences	0	1	0	0	0	0	0	0
Very high radiation area occurrences	0	1	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	2	2	2	2	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

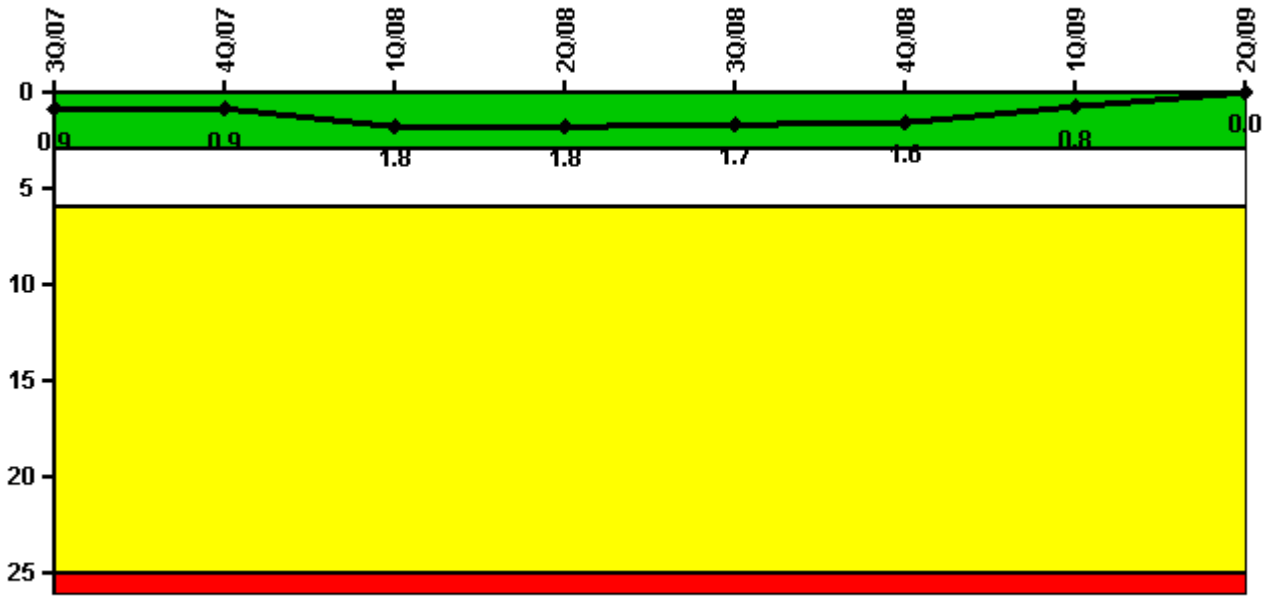
[Security](#) information not publicly available.

Palisades

2Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



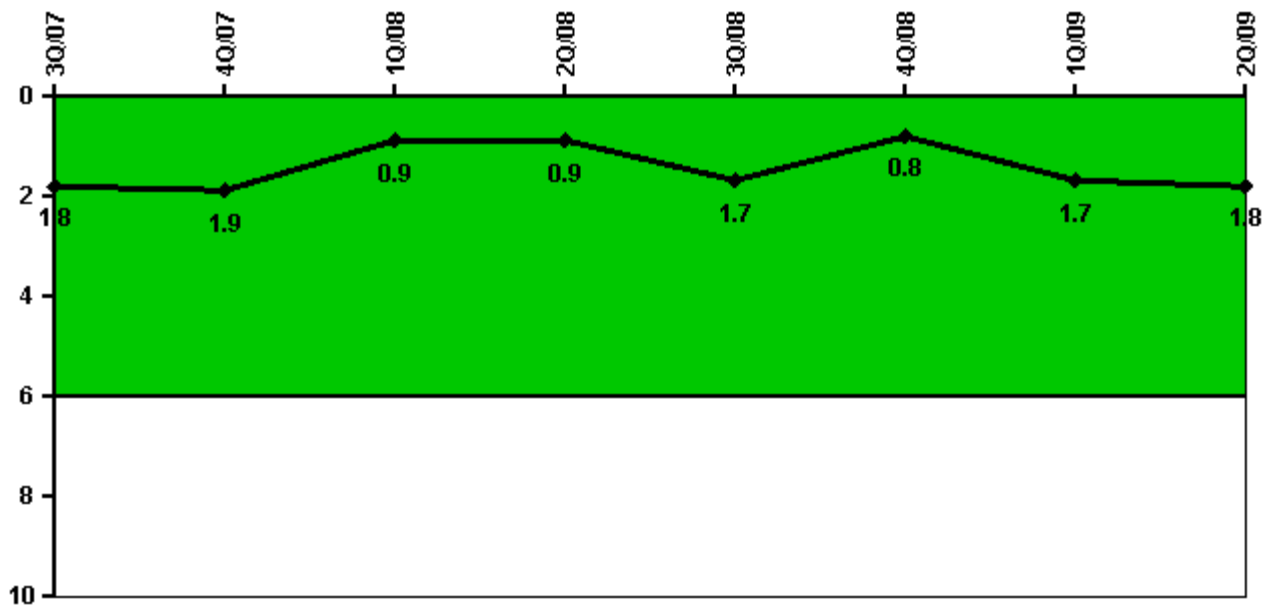
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	1.0	0	0	0	0
Critical hours	1691.0	1749.1	2148.2	2158.1	2113.1	2209.0	1853.5	1522.5
Indicator value	0.9	0.9	1.8	1.8	1.7	1.6	0.8	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



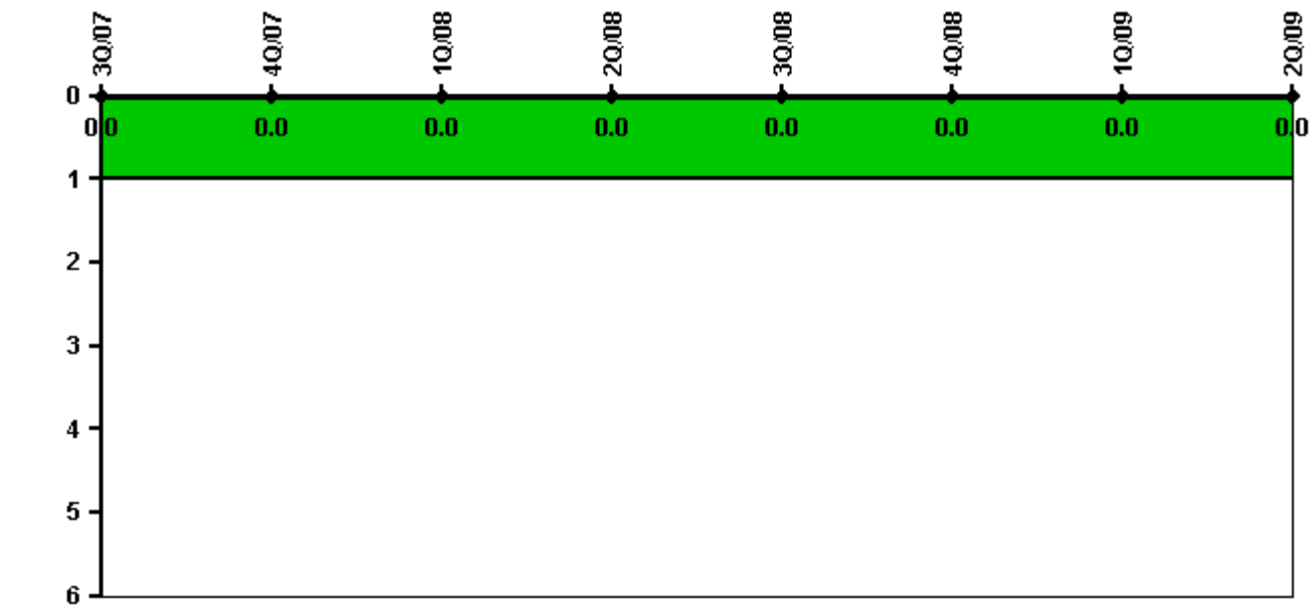
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned power changes	0	1.0	0	0	1.0	0	1.0	0
Critical hours	1691.0	1749.1	2148.2	2158.1	2113.1	2209.0	1853.5	1522.5
Indicator value	1.8	1.9	0.9	0.9	1.7	0.8	1.7	1.8

Licensee Comments: none

Unplanned Scrams with Complications



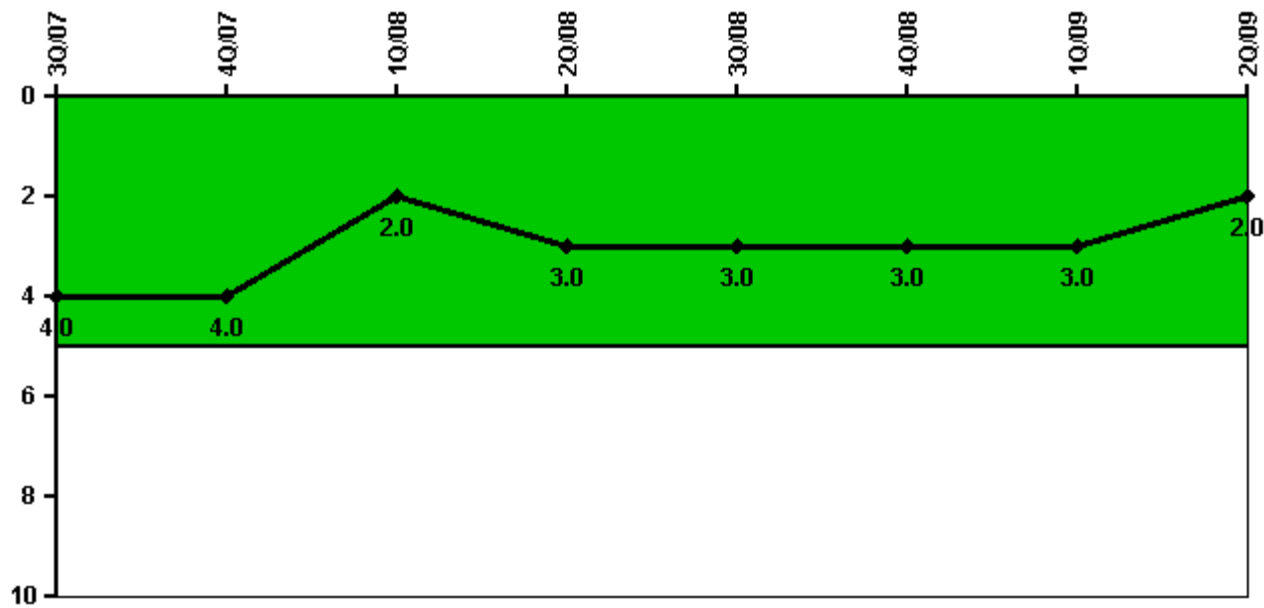
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



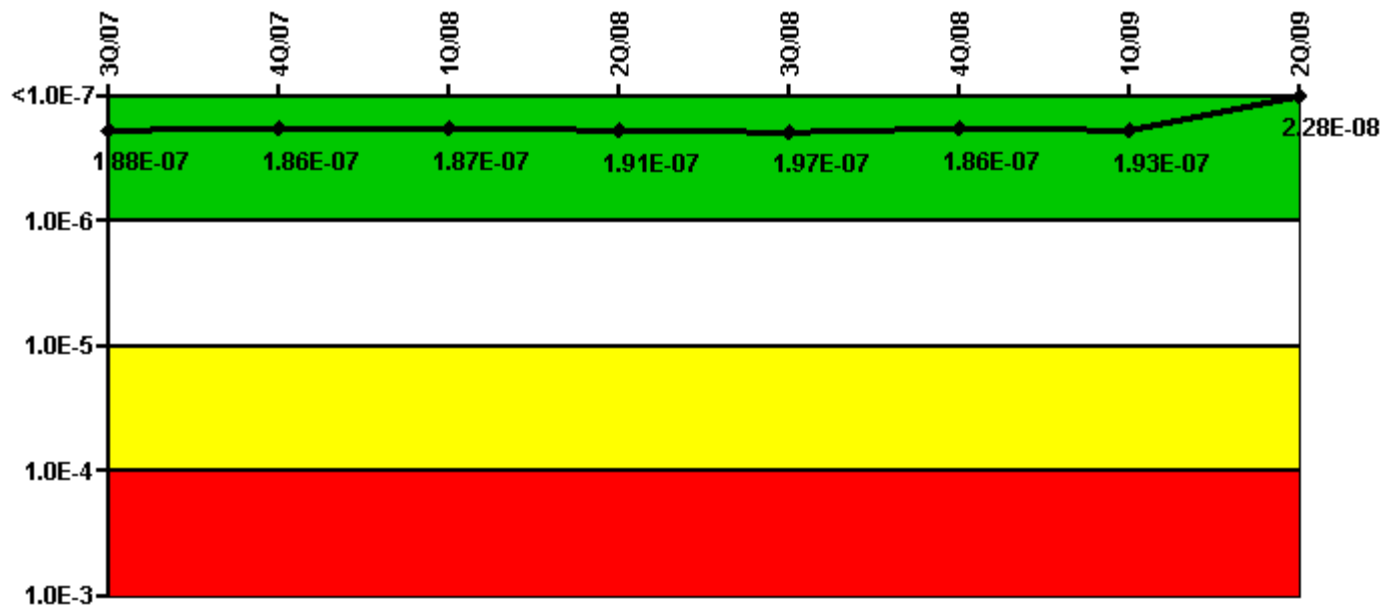
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

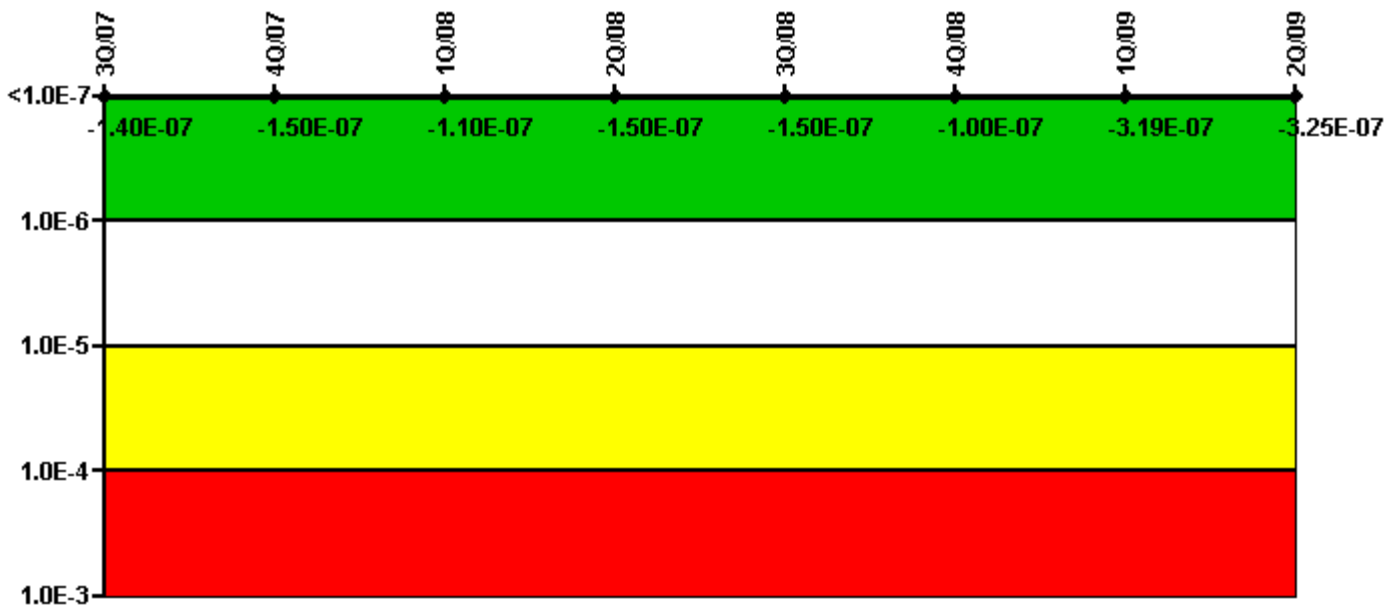
Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	3.80E-08	3.60E-08	3.70E-08	4.10E-08	4.70E-08	3.60E-08	4.30E-08	3.00E-08
URI (ΔCDF)	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	-7.20E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.88E-07	1.86E-07	1.87E-07	1.91E-07	1.97E-07	1.86E-07	1.93E-07	2.28E-08

Licensee Comments:

2Q/09: Emergency AC Power results improved due to June 2006 failure rolling off of 36-month calculation.

Mitigating Systems Performance Index, High Pressure Injection System



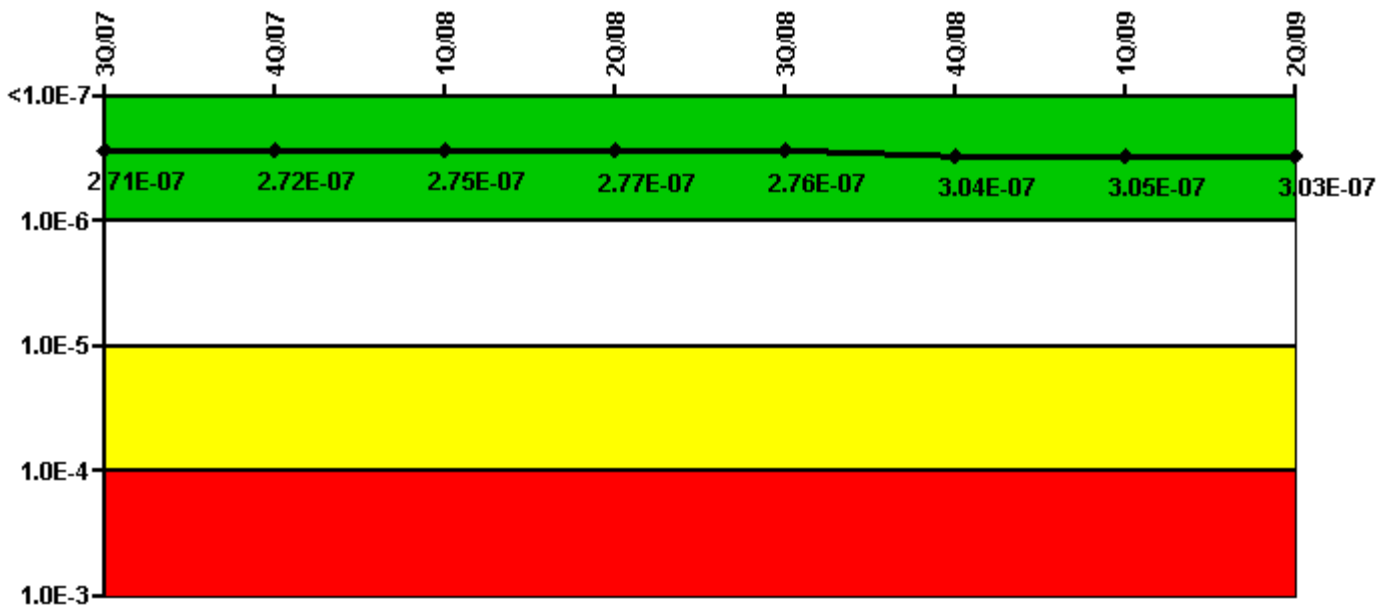
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	1.30E-07	1.20E-07	1.60E-07	1.20E-07	1.20E-07	1.70E-07	-4.90E-08	-5.50E-08
URI (ΔCDF)	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-07	-1.50E-07	-1.10E-07	-1.50E-07	-1.50E-07	-1.00E-07	-3.19E-07	-3.25E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



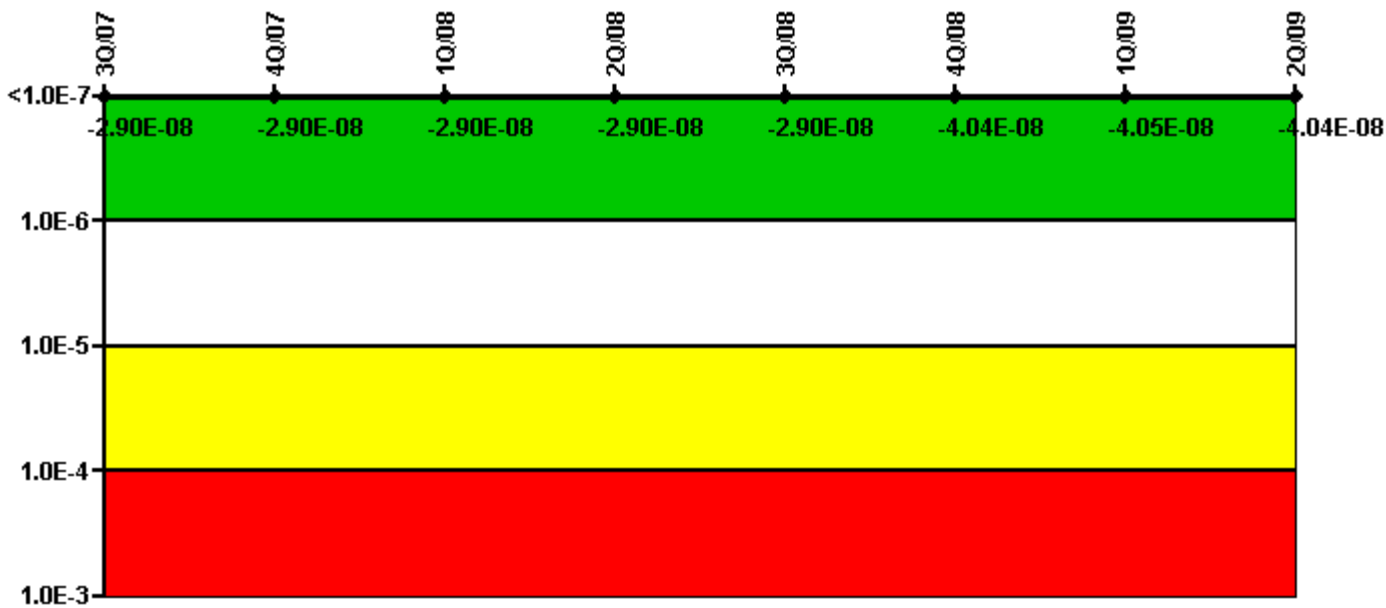
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	-8.90E-09	-8.00E-09	-5.40E-09	-3.30E-09	-3.60E-09	2.40E-08	2.50E-08	2.30E-08
URI (ΔCDF)	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.71E-07	2.72E-07	2.75E-07	2.77E-07	2.76E-07	3.04E-07	3.05E-07	3.03E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



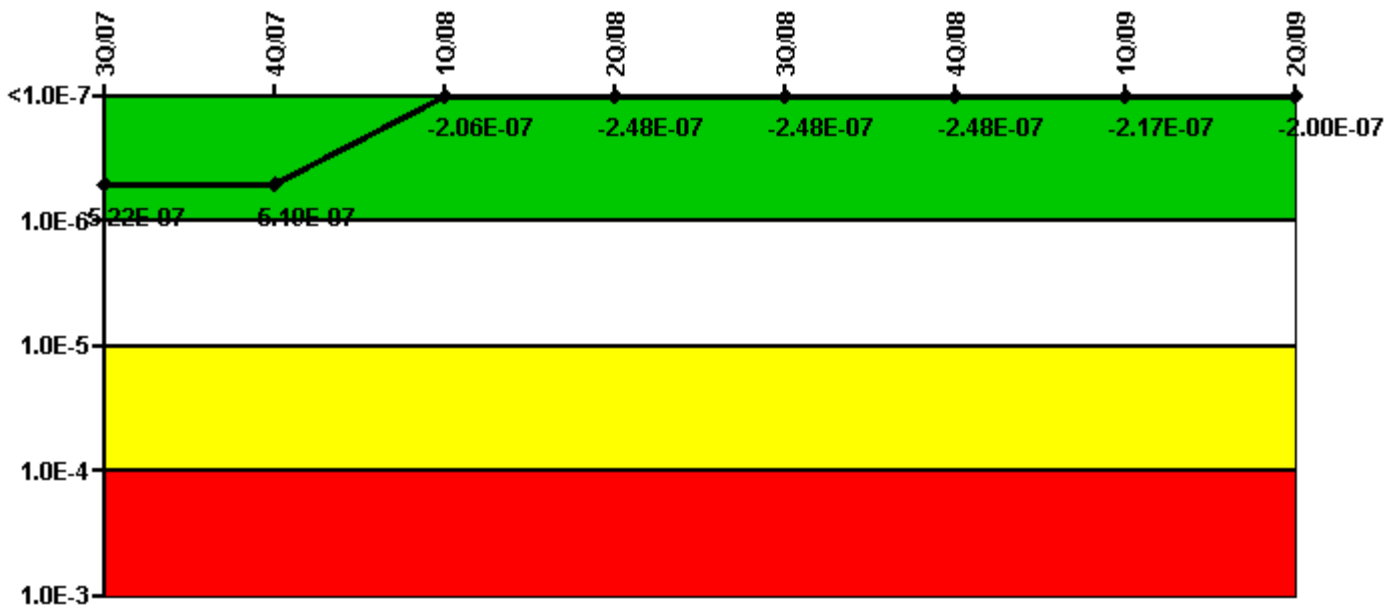
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	1.10E-08	1.10E-08	1.10E-08	1.10E-08	1.10E-08	-3.90E-10	-4.80E-10	-3.60E-10
URI (ΔCDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-08	-2.90E-08	-2.90E-08	-2.90E-08	-2.90E-08	-4.04E-08	-4.05E-08	-4.04E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



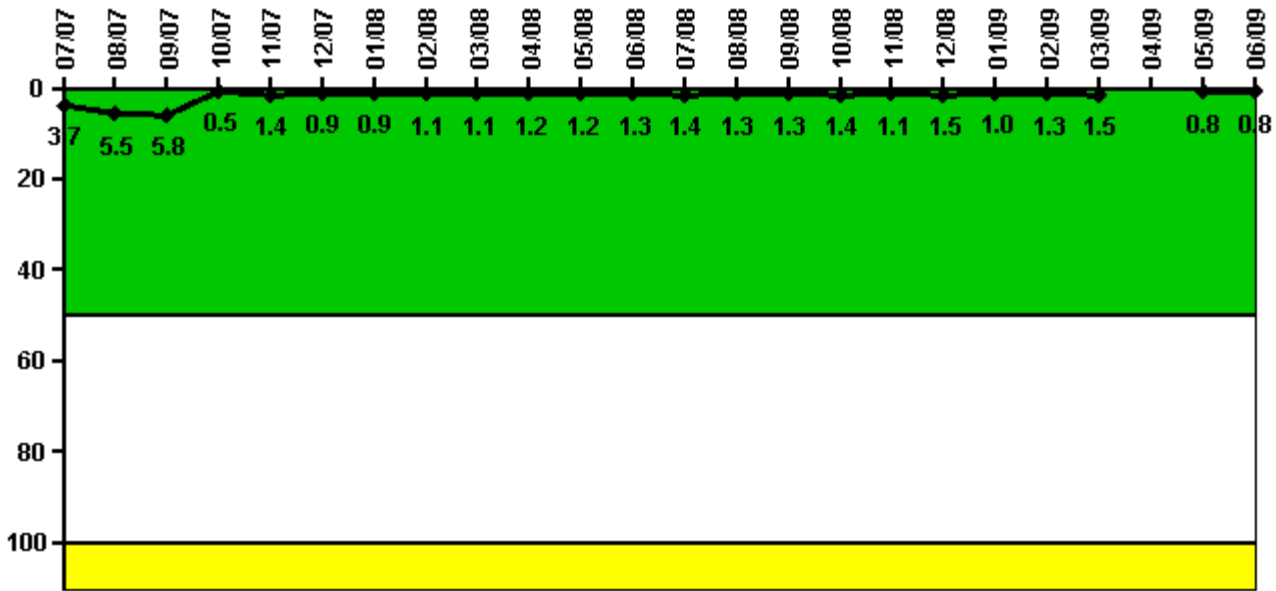
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	4.20E-08	3.90E-08	1.40E-08	-2.80E-08	-2.80E-08	-2.80E-08	1.30E-08	3.00E-08
URI (ΔCDF)	4.80E-07	4.80E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.30E-07	-2.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.22E-07	5.19E-07	-2.06E-07	-2.48E-07	-2.48E-07	-2.48E-07	-2.17E-07	-2.00E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

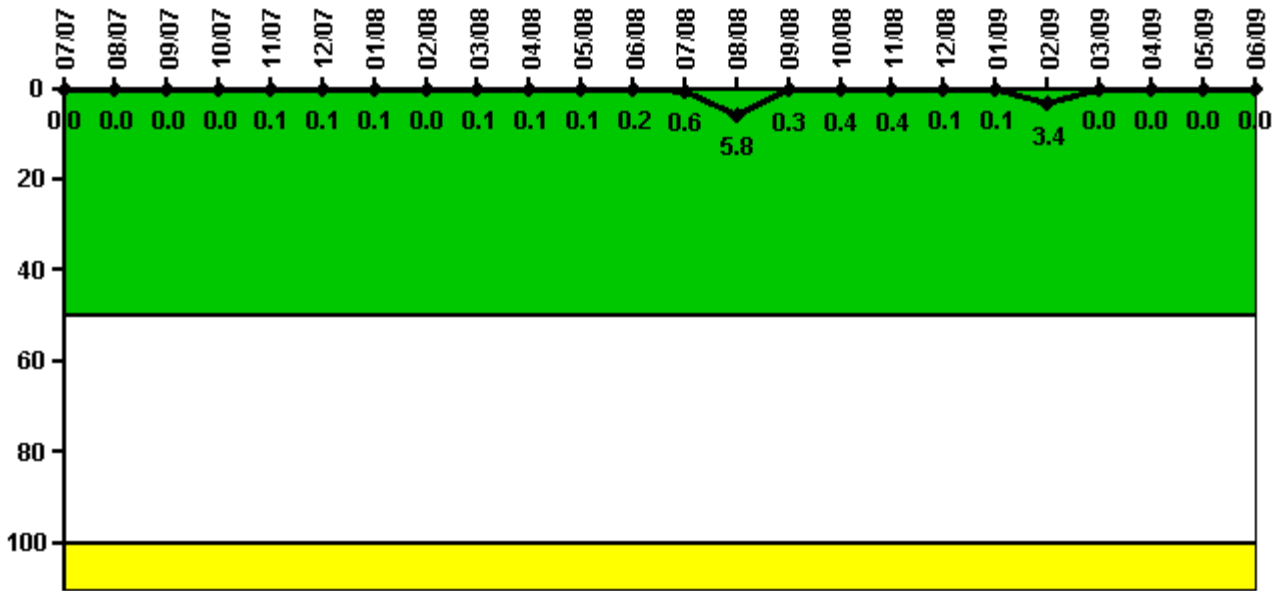
Notes

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	0.037000	0.055400	0.058400	0.005210	0.013800	0.009210	0.009320	0.010600	0.011200	0.011500	0.012200	0.012900
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	3.7	5.5	5.8	0.5	1.4	0.9	0.9	1.1	1.1	1.2	1.2	1.3

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	0.014000	0.013200	0.013200	0.013700	0.010800	0.014600	0.010400	0.013200	0.014800	N/A	0.007570	0.007680
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.4	1.3	1.3	1.4	1.1	1.5	1.0	1.3	1.5	N/A	0.8	0.8

Licensee Comments: none

Reactor Coolant System Leakage



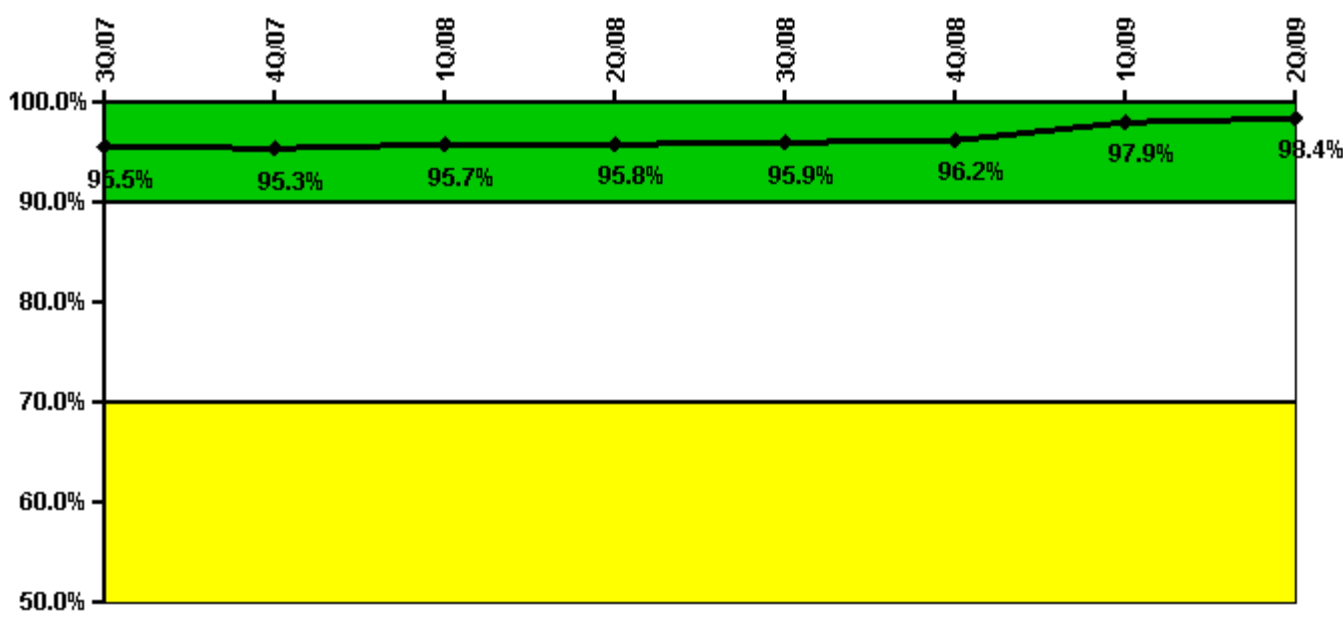
Thresholds: White > 50.0 Yellow > 100.0

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	0.001	0.001	0.001	0.004	0.005	0.005	0.005	0.004	0.007	0.007	0.008	0.017
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0.1	0.1	0.1	0	0.1	0.1	0.1	0.2
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	0.055	0.576	0.029	0.040	0.040	0.007	0.013	0.341	0.001	0	0.003	0.003
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.6	5.8	0.3	0.4	0.4	0.1	0.1	3.4	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



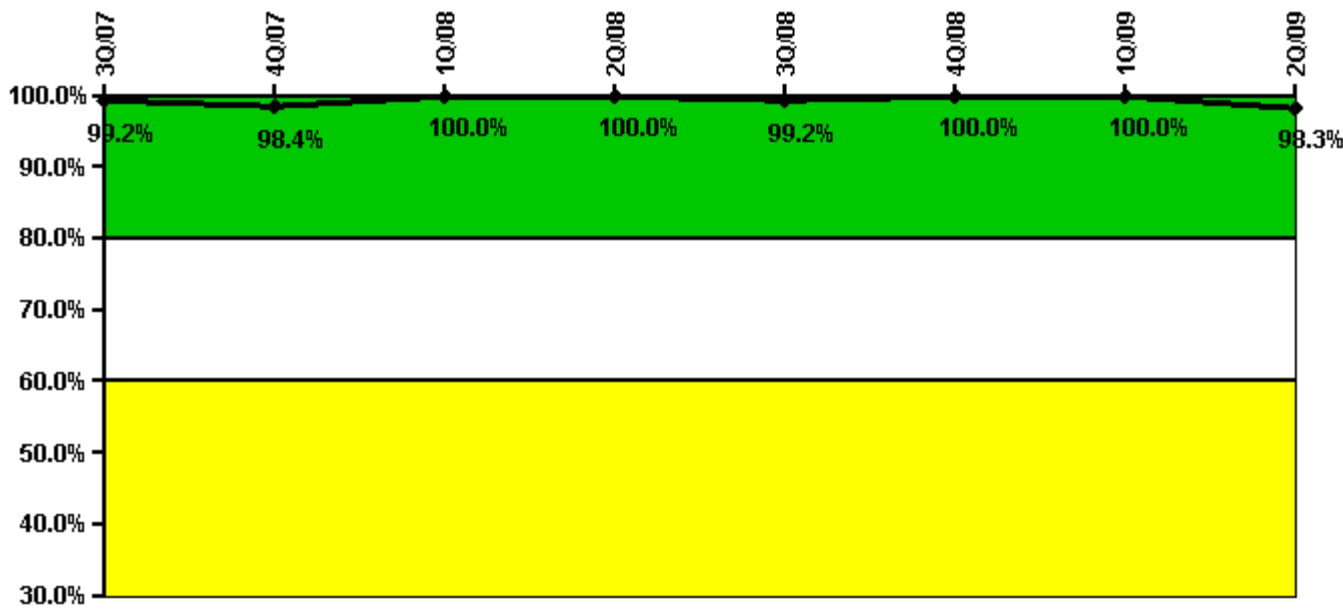
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful opportunities	22.0	19.0	58.0	42.0	44.0	45.0	65.0	12.0
Total opportunities	22.0	20.0	60.0	42.0	44.0	46.0	66.0	12.0
Indicator value	95.5%	95.3%	95.7%	95.8%	95.9%	96.2%	97.9%	98.4%

Licensee Comments: none

ERO Drill Participation



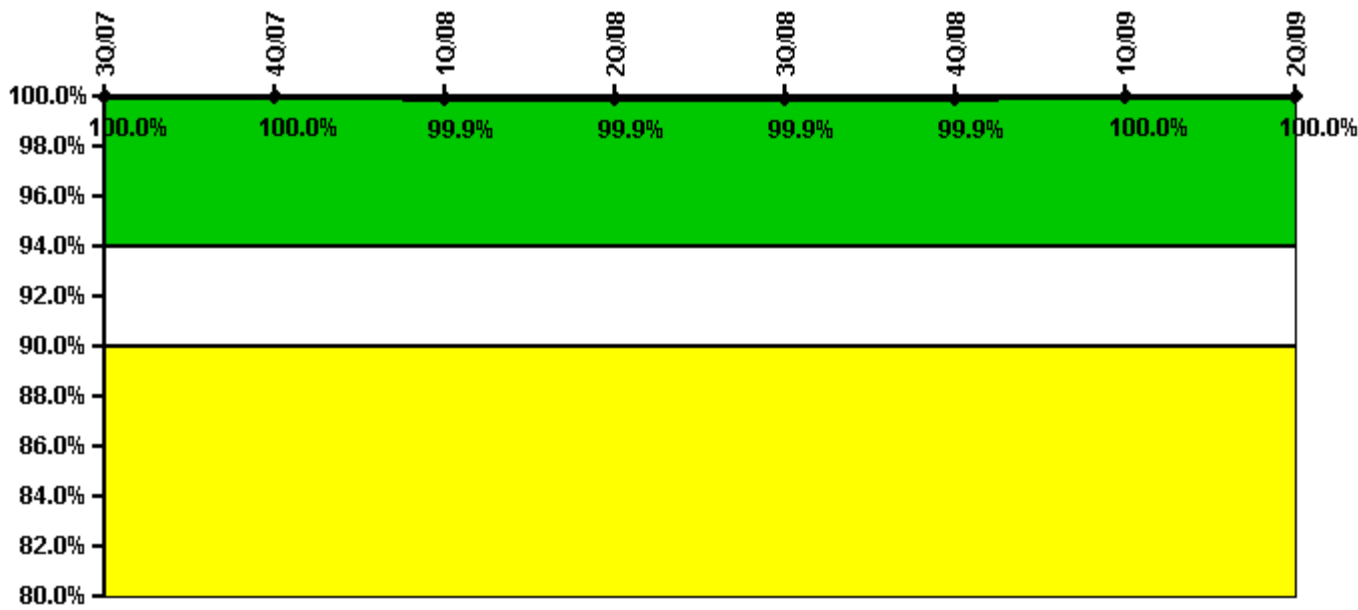
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Participating Key personnel	123.0	122.0	117.0	112.0	119.0	118.0	120.0	113.0
Total Key personnel	124.0	124.0	117.0	112.0	120.0	118.0	120.0	115.0
Indicator value	99.2%	98.4%	100.0%	100.0%	99.2%	100.0%	100.0%	98.3%

Licensee Comments: none

Alert & Notification System



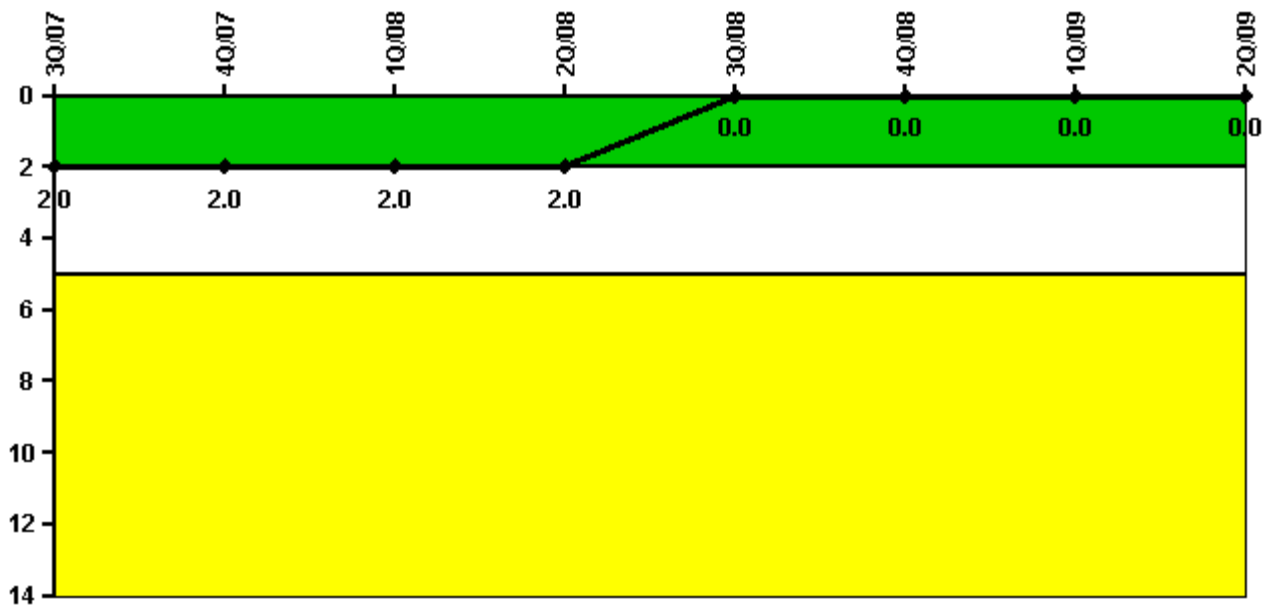
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful siren-tests	183	183	182	183	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	100.0%	100.0%	99.9%	99.9%	99.9%	99.9%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



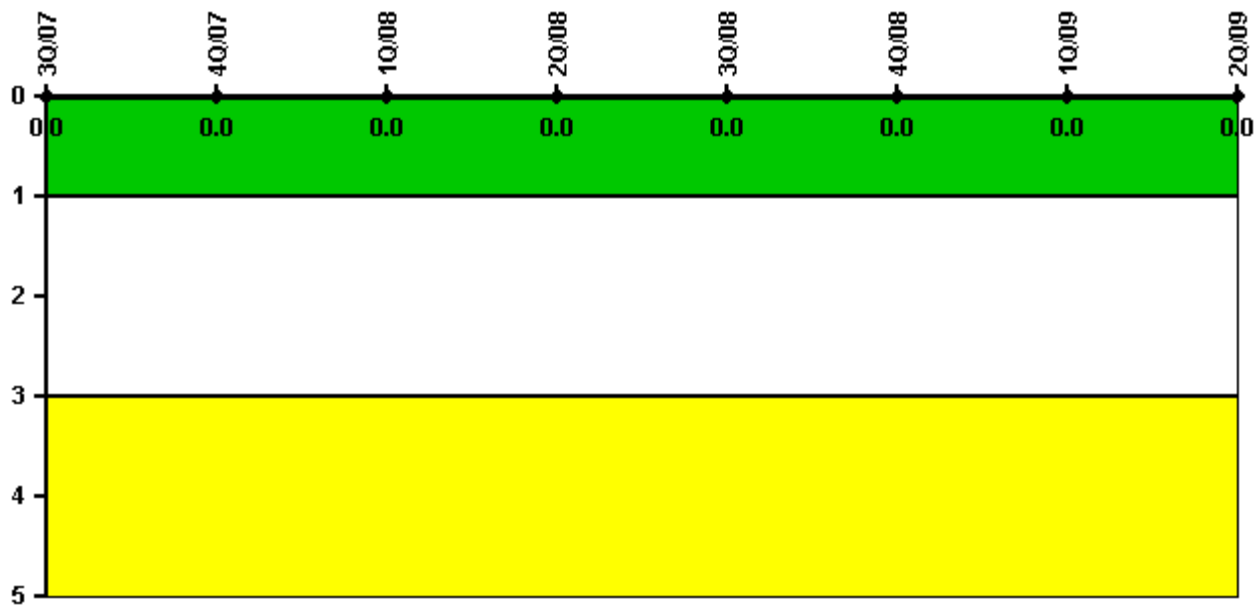
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
High radiation area occurrences	1	0	0	0	0	0	0	0
Very high radiation area occurrences	1	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	2	2	2	2	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

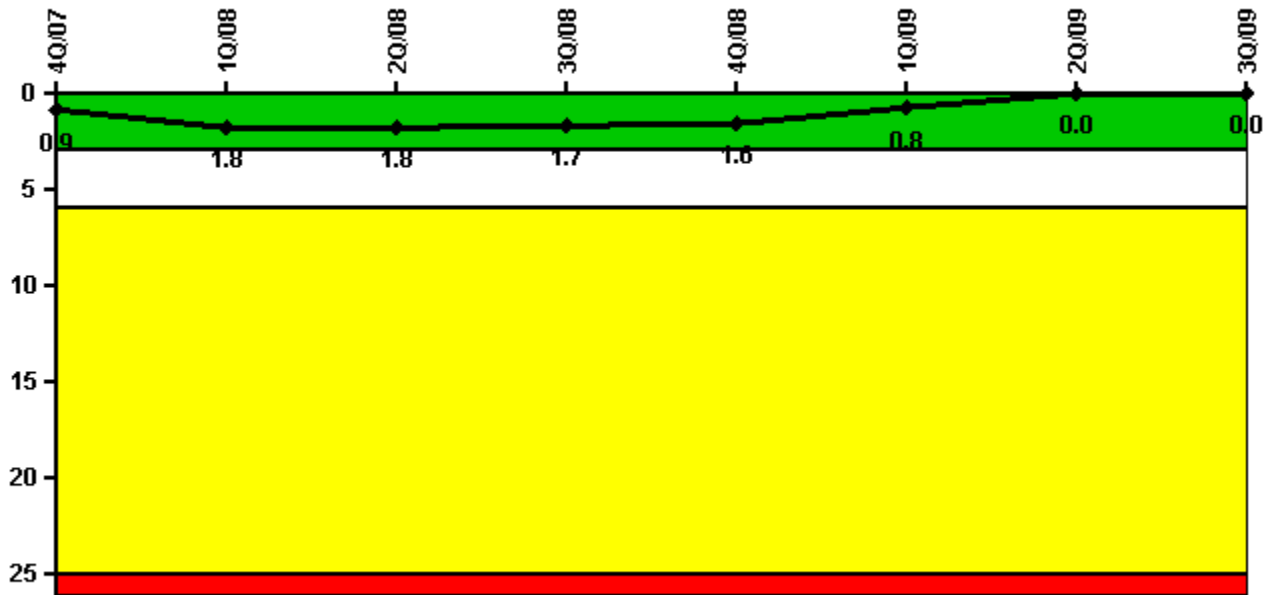
[Security](#) information not publicly available.

Palisades

3Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



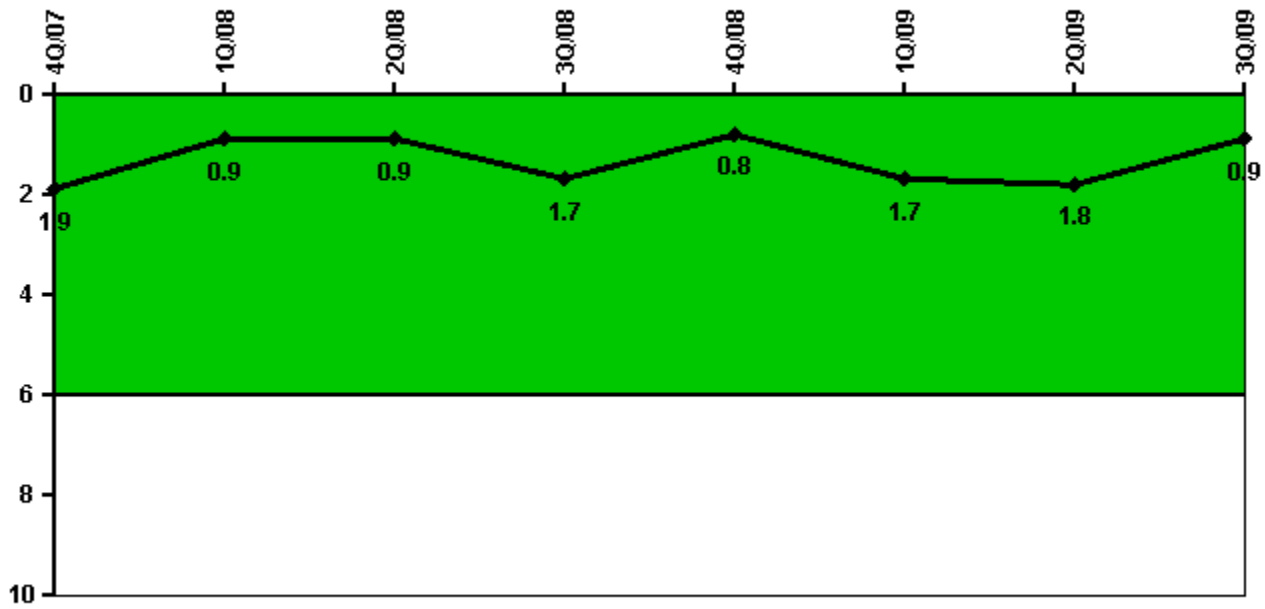
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	1.0	0	0	0	0	0
Critical hours	1749.1	2148.2	2158.1	2113.1	2209.0	1853.5	1522.5	2208.0
Indicator value	0.9	1.8	1.8	1.7	1.6	0.8	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



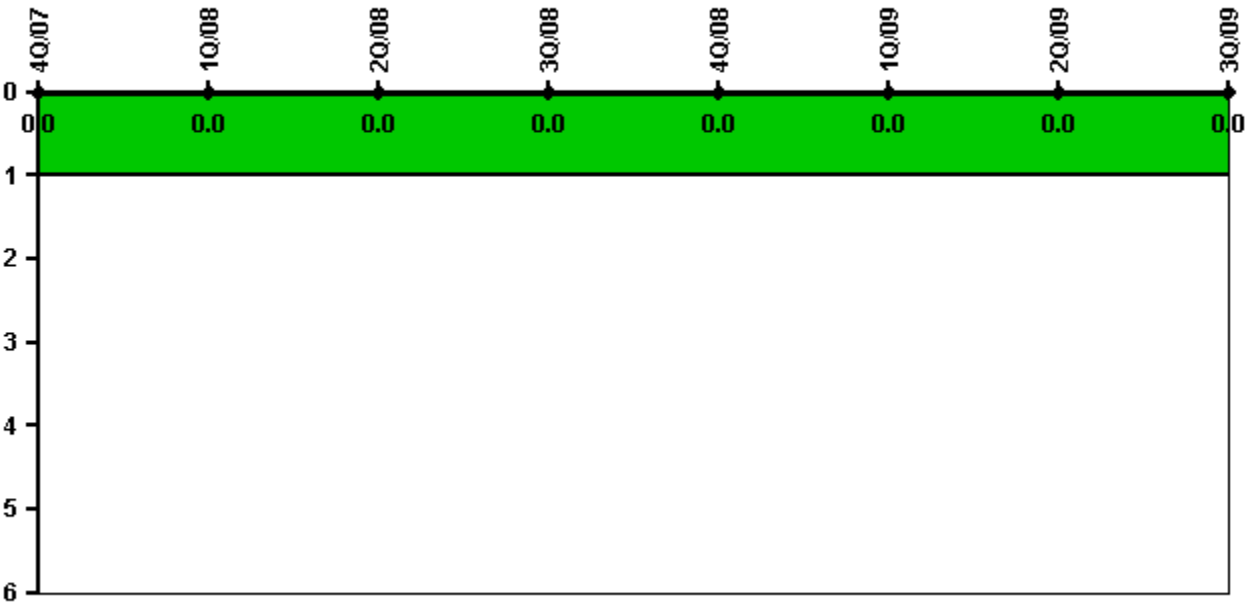
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned power changes	1.0	0	0	1.0	0	1.0	0	0
Critical hours	1749.1	2148.2	2158.1	2113.1	2209.0	1853.5	1522.5	2208.0
Indicator value	1.9	0.9	0.9	1.7	0.8	1.7	1.8	0.9

Licensee Comments: none

Unplanned Scrams with Complications



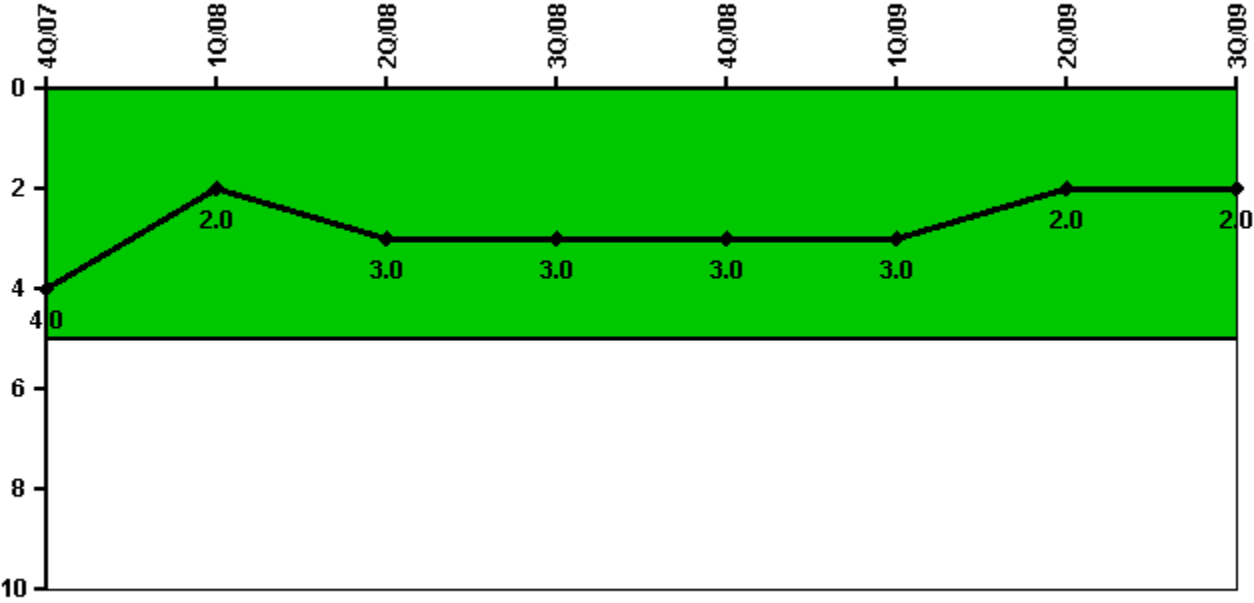
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Scrams with complications	0	0	0	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)



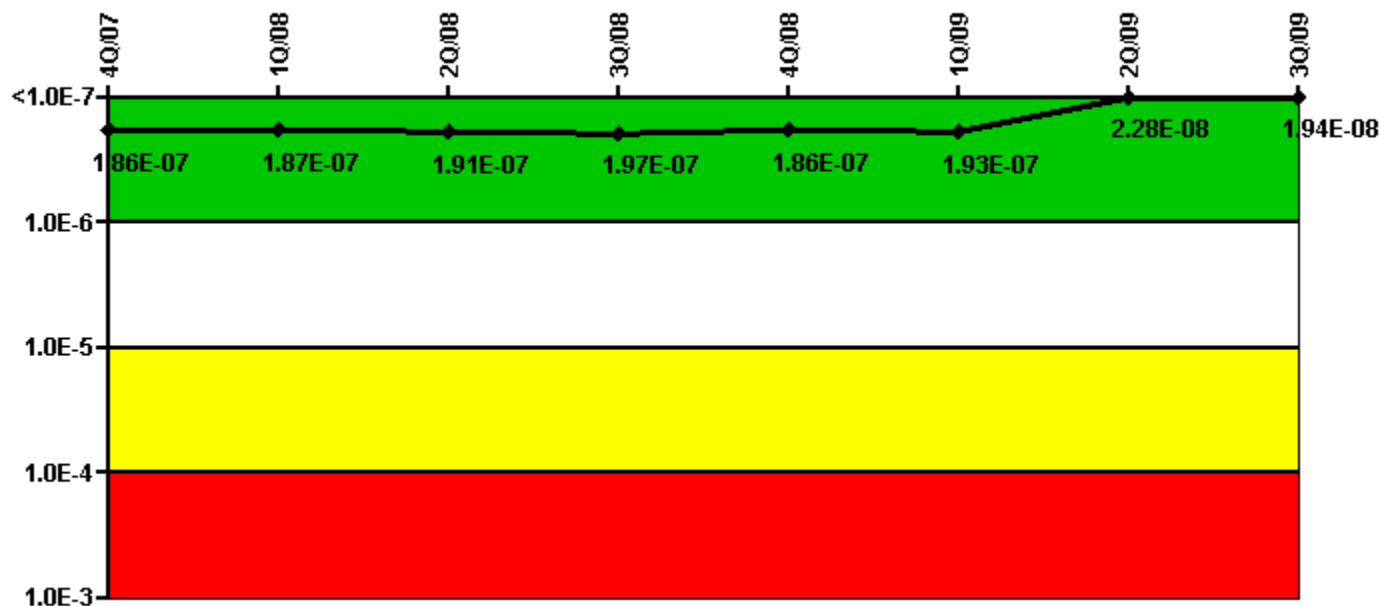
Thresholds: White > 5.0

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	2	0	1	0	2	0	0	0
Indicator value	4	2	3	3	3	3	2	2

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



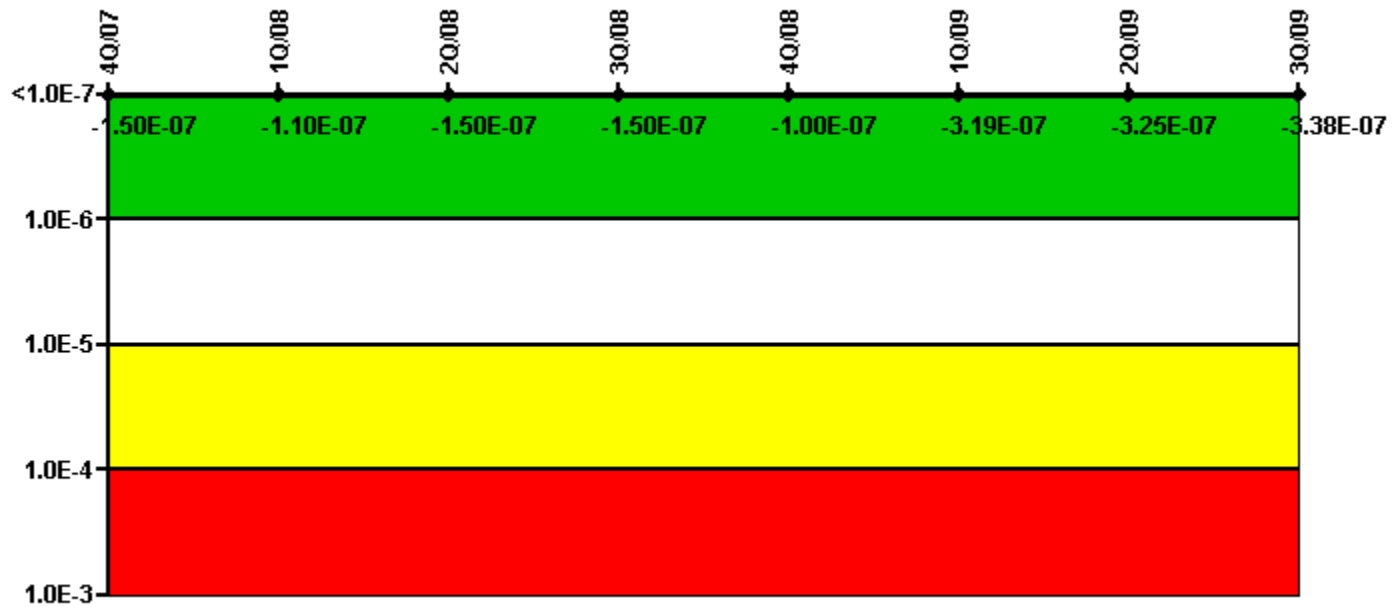
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	3.60E-08	3.70E-08	4.10E-08	4.70E-08	3.60E-08	4.30E-08	3.00E-08	2.60E-08
URI (ΔCDF)	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	-7.20E-09	-6.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.86E-07	1.87E-07	1.91E-07	1.97E-07	1.86E-07	1.93E-07	2.28E-08	1.94E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



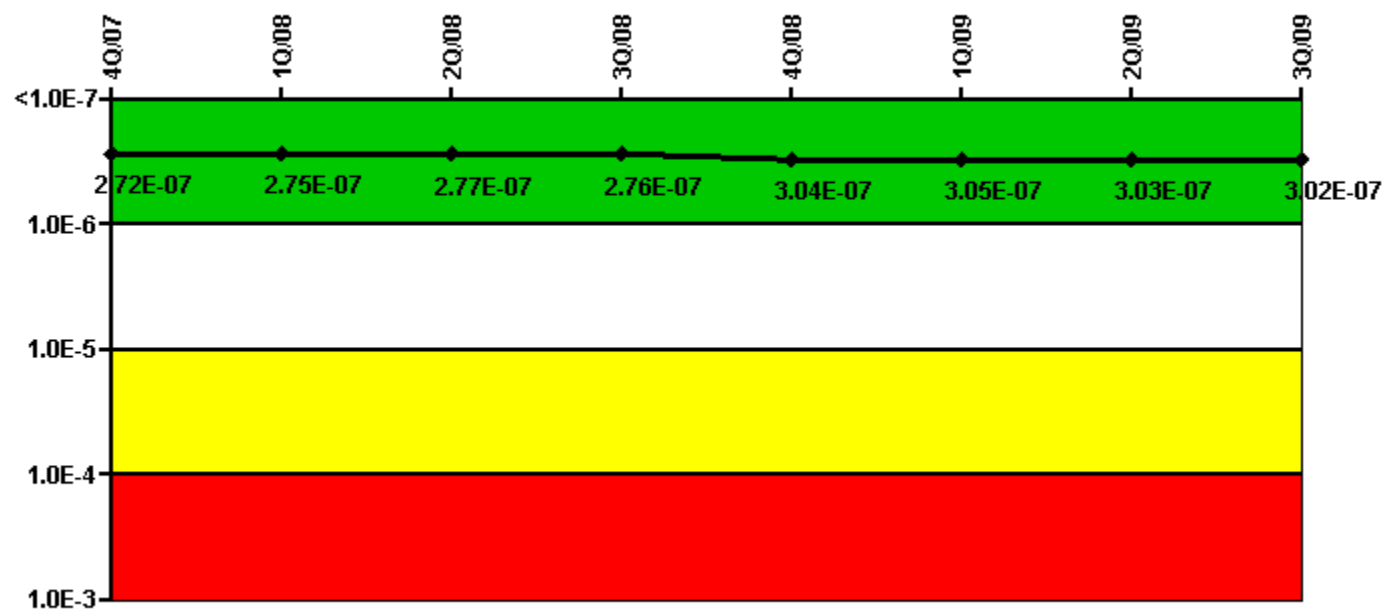
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (Δ CDF)	1.20E-07	1.60E-07	1.20E-07	1.20E-07	1.70E-07	-4.90E-08	-5.50E-08	-6.80E-08
URI (Δ CDF)	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-07	-1.10E-07	-1.50E-07	-1.50E-07	-1.00E-07	-3.19E-07	-3.25E-07	-3.38E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



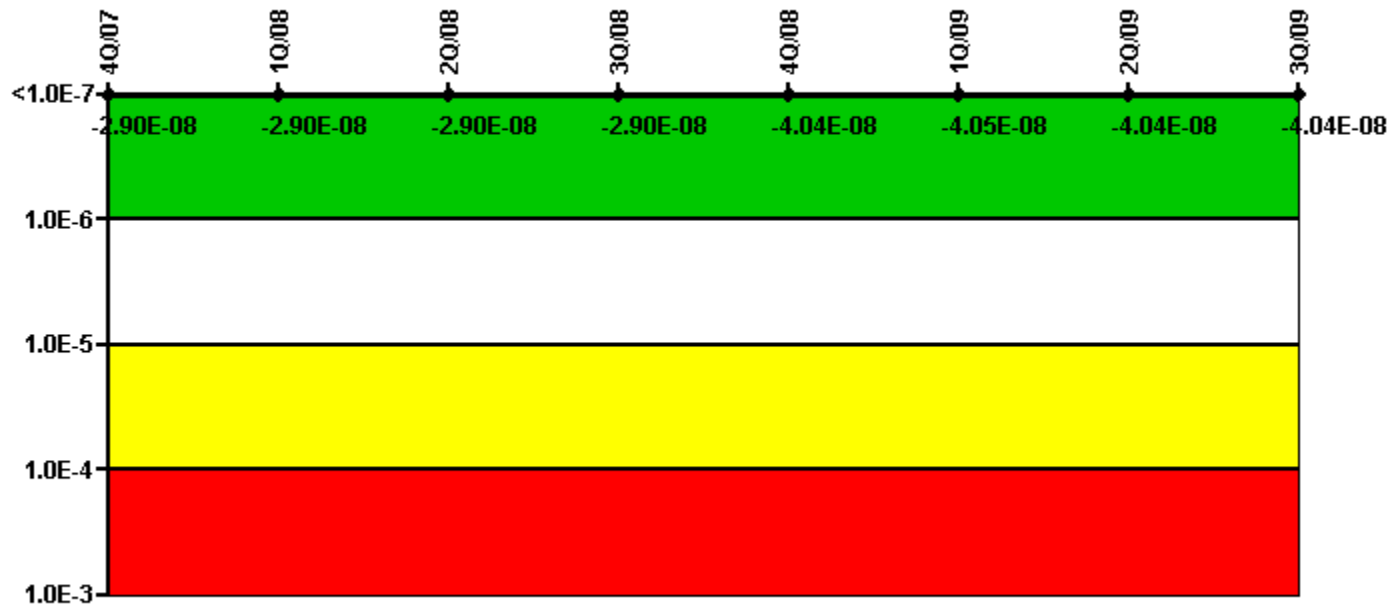
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	-8.00E-09	-5.40E-09	-3.30E-09	-3.60E-09	2.40E-08	2.50E-08	2.30E-08	2.20E-08
URI (ΔCDF)	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.72E-07	2.75E-07	2.77E-07	2.76E-07	3.04E-07	3.05E-07	3.03E-07	3.02E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



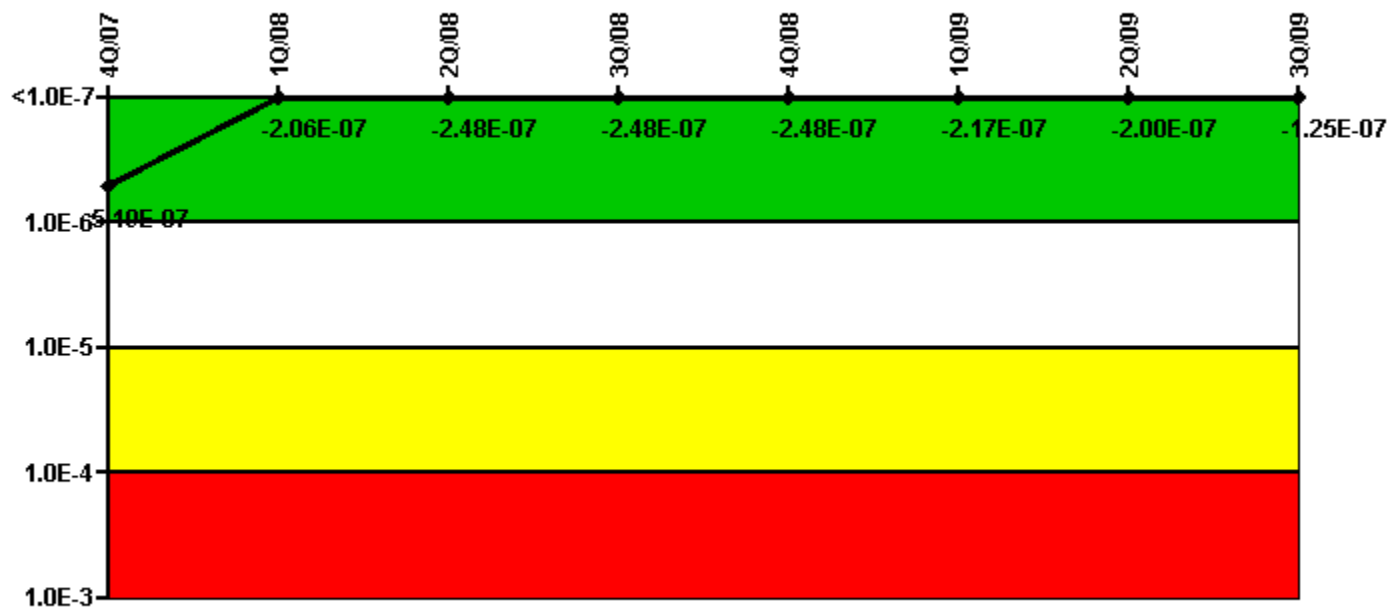
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	1.10E-08	1.10E-08	1.10E-08	1.10E-08	-3.90E-10	-4.80E-10	-3.60E-10	-4.10E-10
URI (ΔCDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-08	-2.90E-08	-2.90E-08	-2.90E-08	-4.04E-08	-4.05E-08	-4.04E-08	-4.04E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

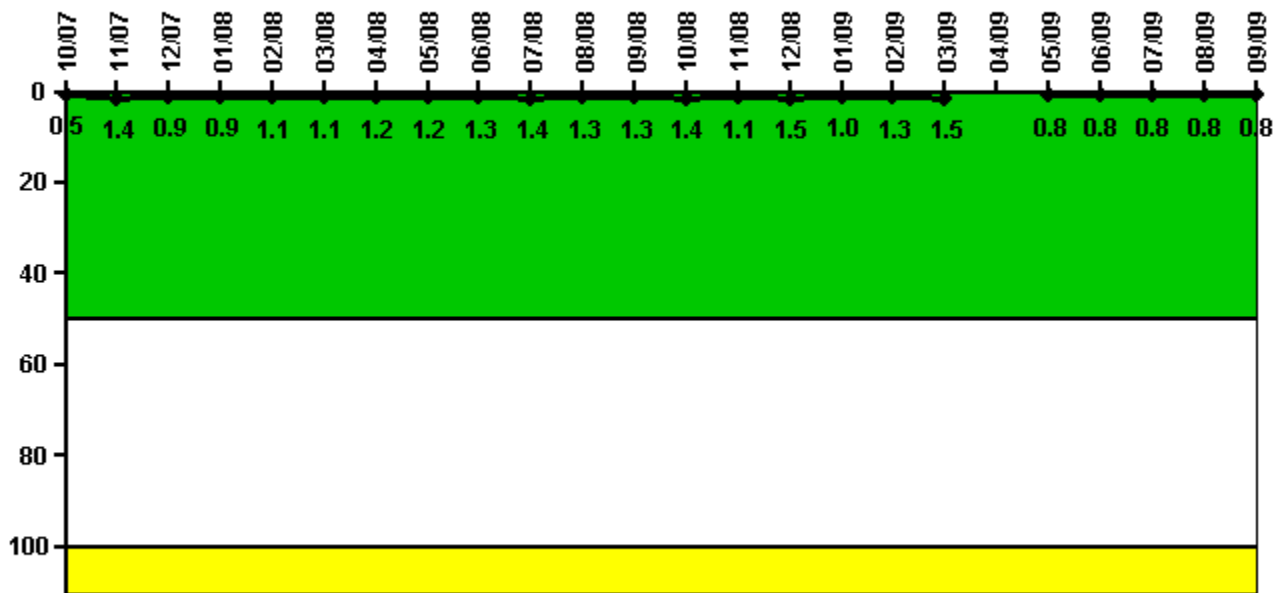
Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	3.90E-08	1.40E-08	-2.80E-08	-2.80E-08	-2.80E-08	1.30E-08	3.00E-08	5.50E-08
URI (ΔCDF)	4.80E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.30E-07	-2.30E-07	-1.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.19E-07	-2.06E-07	-2.48E-07	-2.48E-07	-2.48E-07	-2.17E-07	-2.00E-07	-1.25E-07

Licensee Comments:

3Q/09: Failure of Service Water Pump P-7C on September 29, 2009 is included in this submittal.

Reactor Coolant System Activity



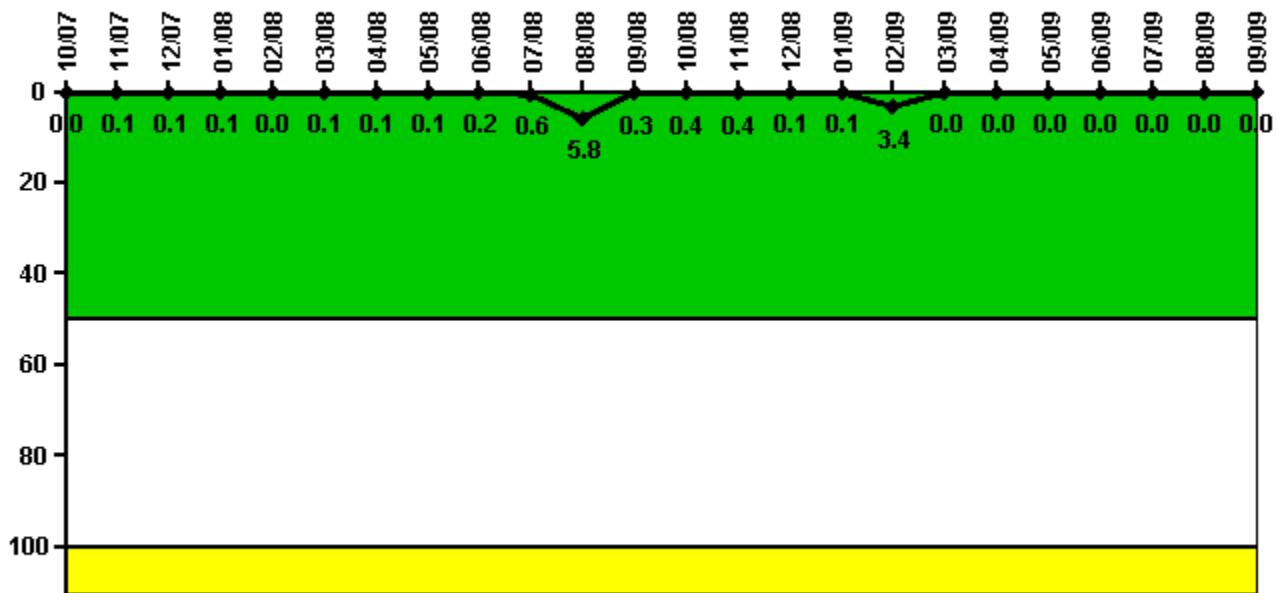
Thresholds: White > 50.0 Yellow > 100.0

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	0.005210	0.013800	0.009210	0.009320	0.010600	0.011200	0.011500	0.012200	0.012900	0.014000	0.013200	0.013200
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.5	1.4	0.9	0.9	1.1	1.1	1.2	1.2	1.3	1.4	1.3	1.3
Reactor Coolant System Activity	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum activity	0.013700	0.010800	0.014600	0.010400	0.013200	0.014800	N/A	0.007570	0.007680	0.008310	0.008260	0.008190
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.4	1.1	1.5	1.0	1.3	1.5	N/A	0.8	0.8	0.8	0.8	0.8

Licensee Comments: none

Reactor Coolant System Leakage



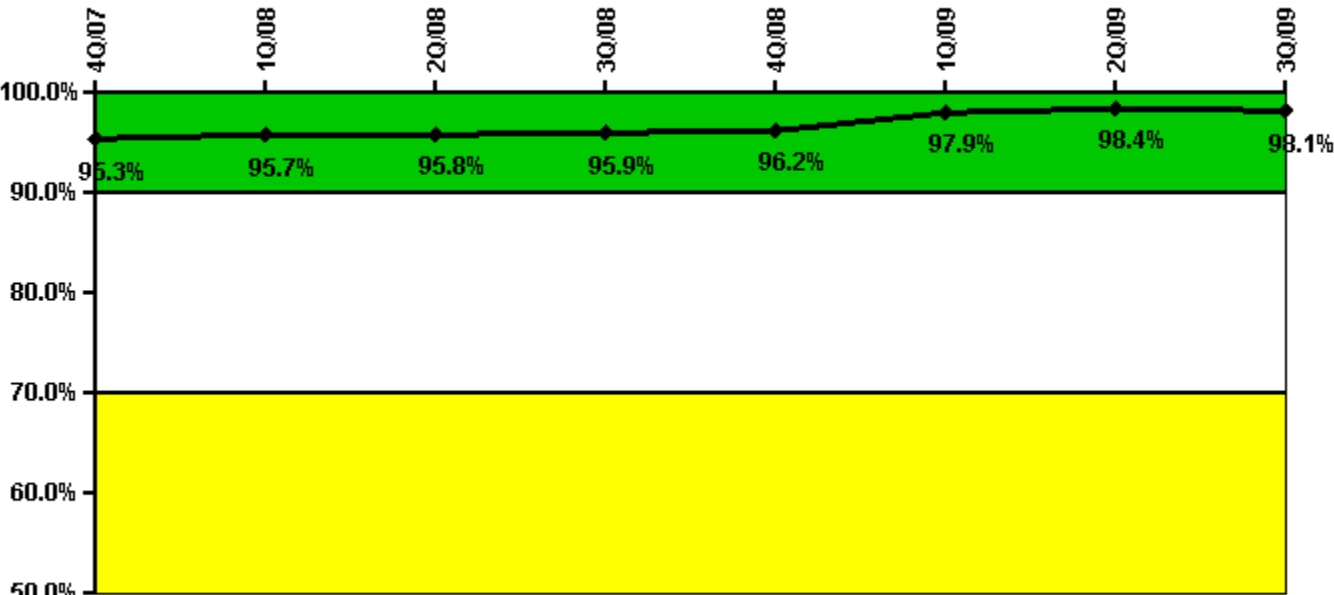
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum leakage	0.004	0.005	0.005	0.005	0.004	0.007	0.007	0.008	0.017	0.055	0.576	0.029
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0.1	0.1	0.1	0	0.1	0.1	0.1	0.2	0.6	5.8	0.3
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	0.040	0.040	0.007	0.013	0.341	0.001	0	0.003	0.003	0.003	0.004	0.003
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.4	0.4	0.1	0.1	3.4	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



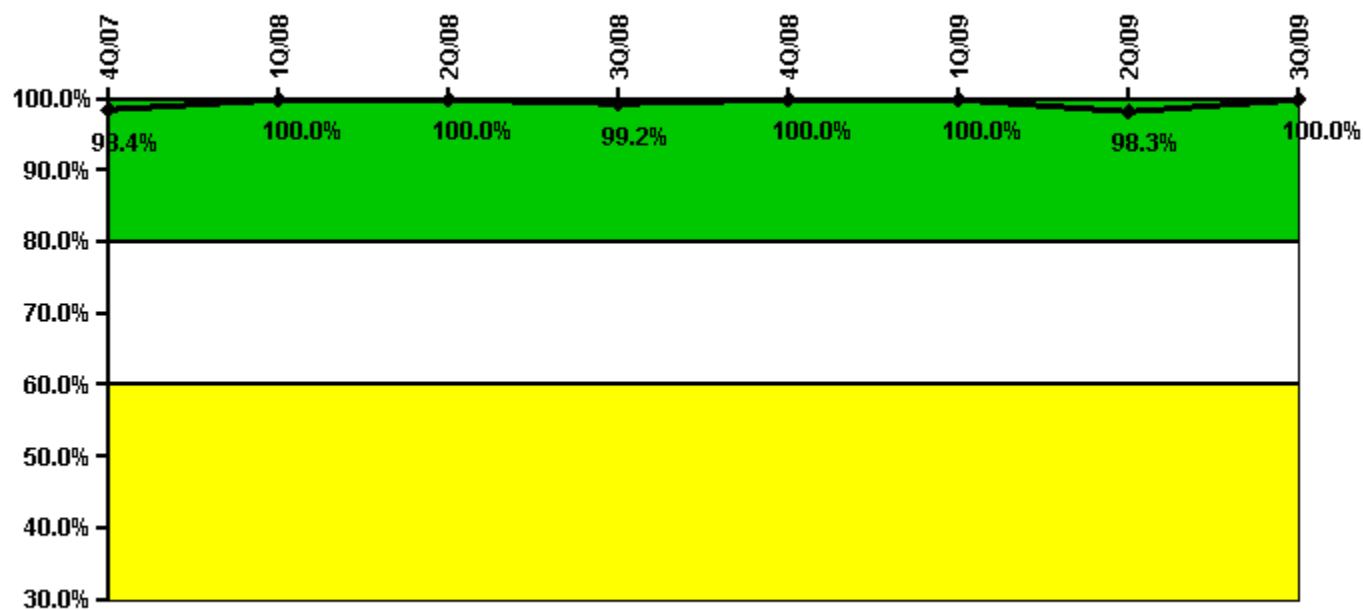
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful opportunities	19.0	58.0	42.0	44.0	45.0	65.0	12.0	23.0
Total opportunities	20.0	60.0	42.0	44.0	46.0	66.0	12.0	24.0
Indicator value	95.3%	95.7%	95.8%	95.9%	96.2%	97.9%	98.4%	98.1%

Licensee Comments: none

ERO Drill Participation



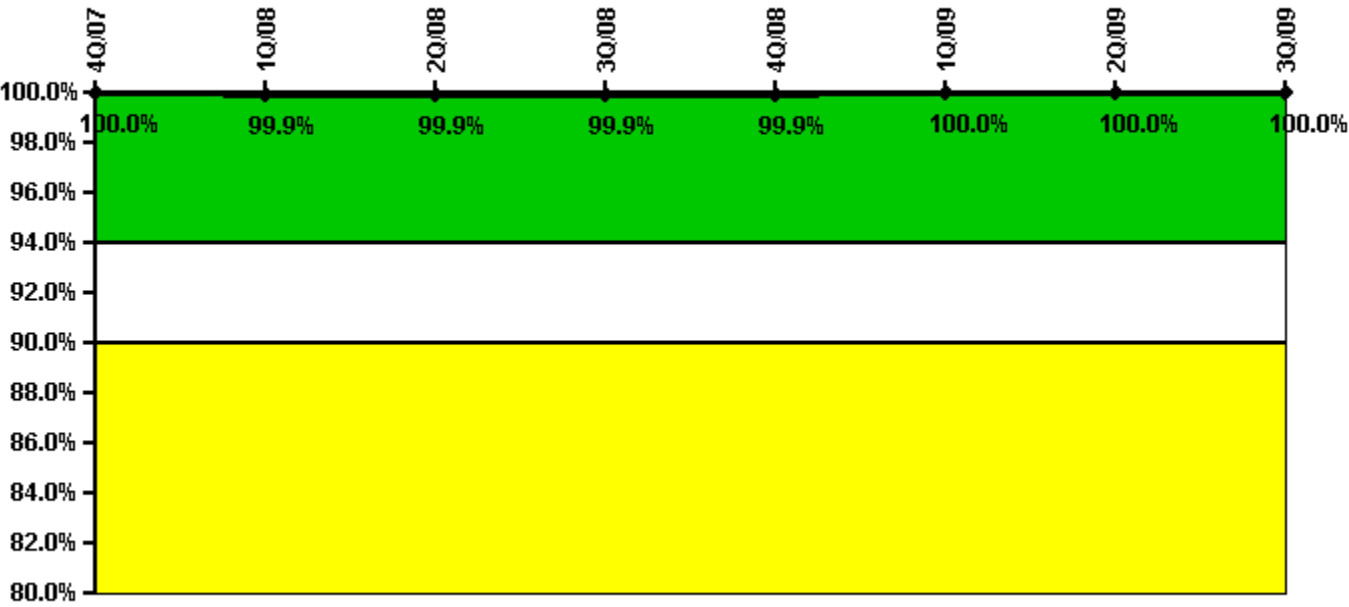
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Participating Key personnel	122.0	117.0	112.0	119.0	118.0	120.0	113.0	122.0
Total Key personnel	124.0	117.0	112.0	120.0	118.0	120.0	115.0	122.0
Indicator value	98.4%	100.0%	100.0%	99.2%	100.0%	100.0%	98.3%	100.0%

Licensee Comments: none

Alert & Notification System



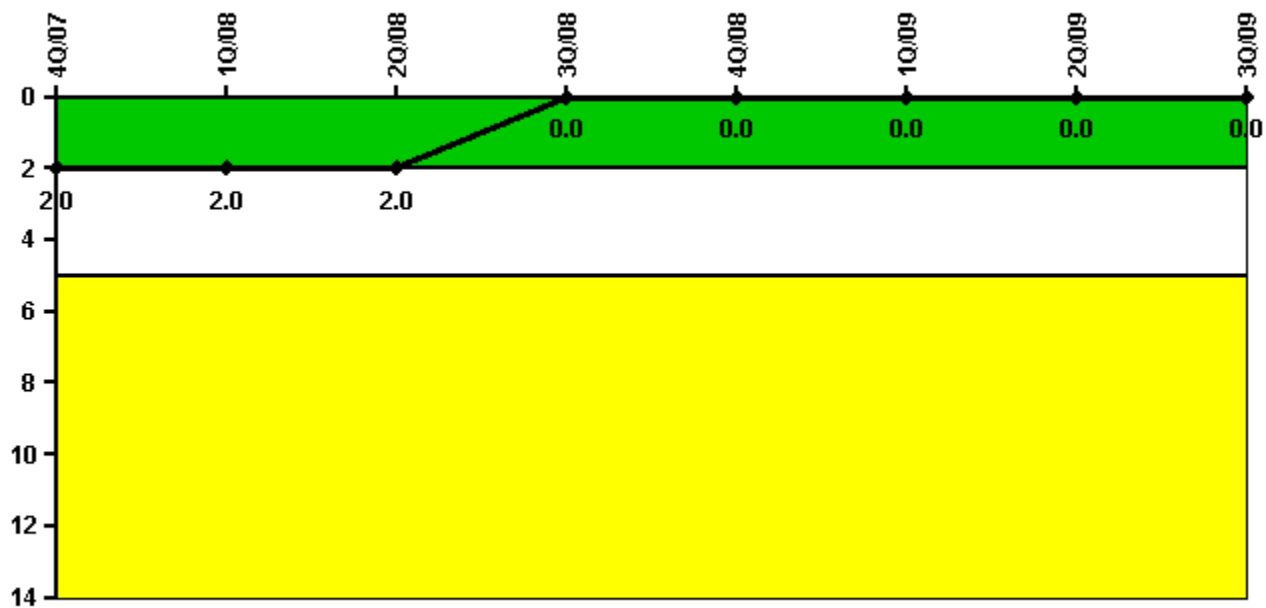
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful siren-tests	183	182	183	183	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	100.0%	99.9%	99.9%	99.9%	99.9%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



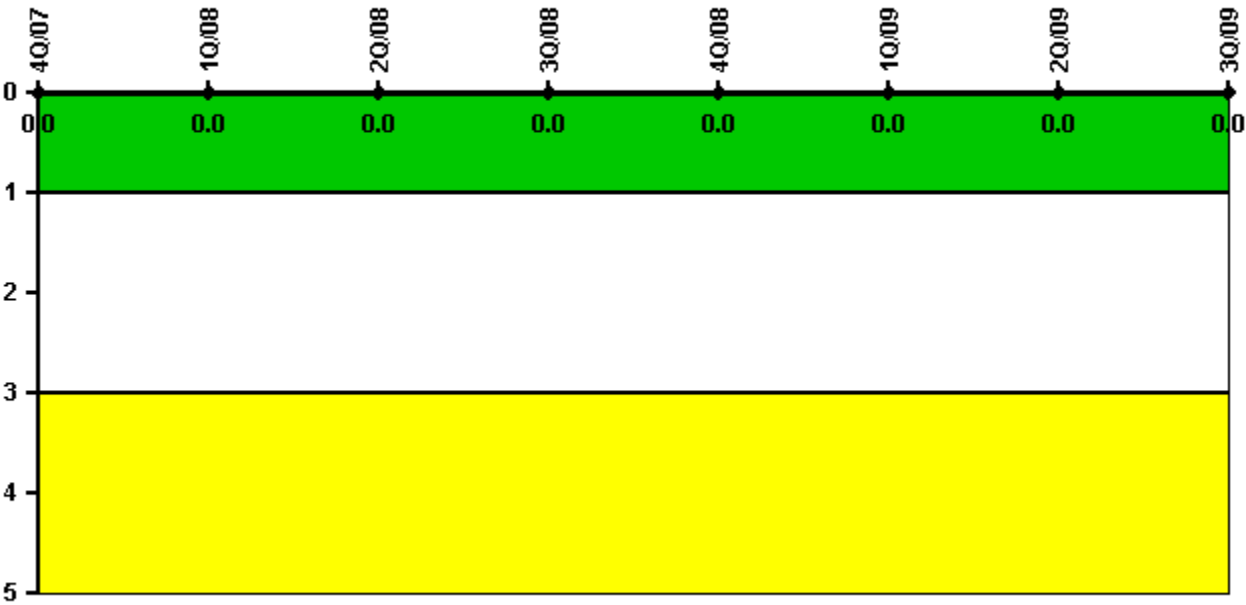
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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	2	2	2	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

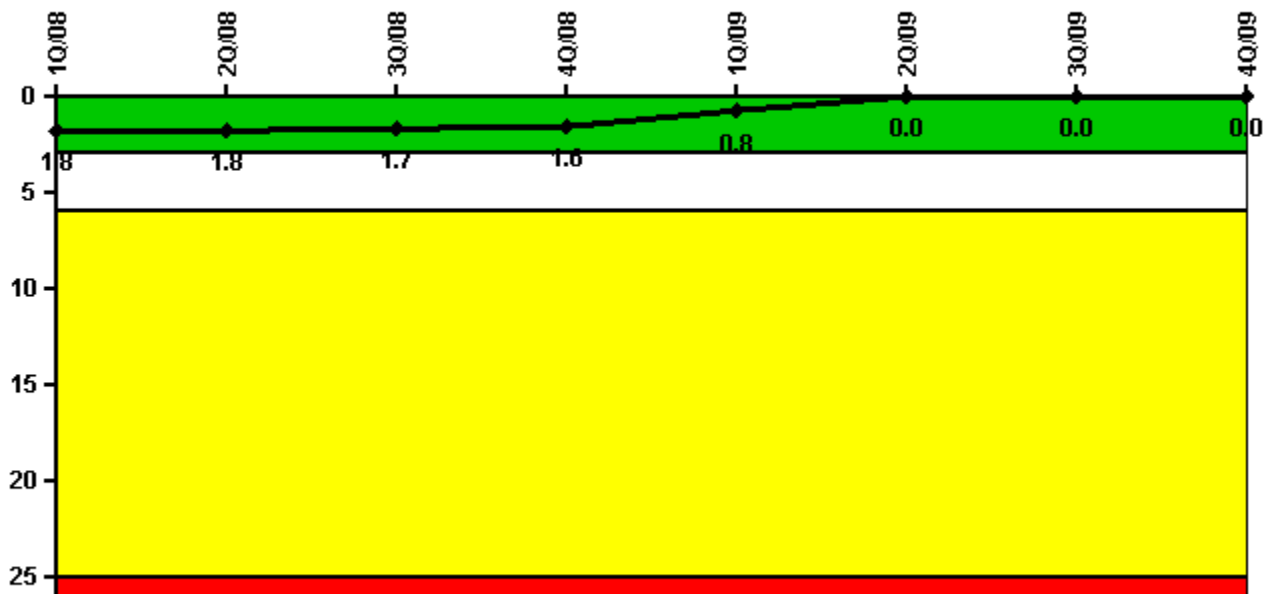
[Security](#) information not publicly available.

Palisades

4Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



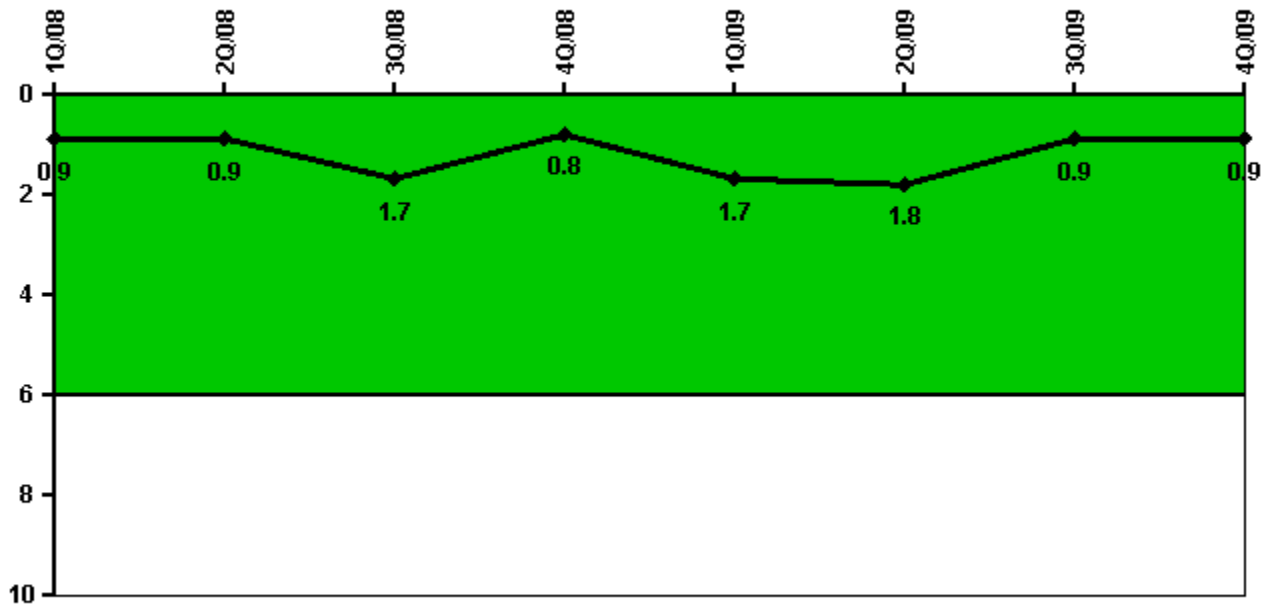
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	1.0	0	0	0	0	0	0
Critical hours	2148.2	2158.1	2113.1	2209.0	1853.5	1522.5	2208.0	2209.0
Indicator value	1.8	1.8	1.7	1.6	0.8	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



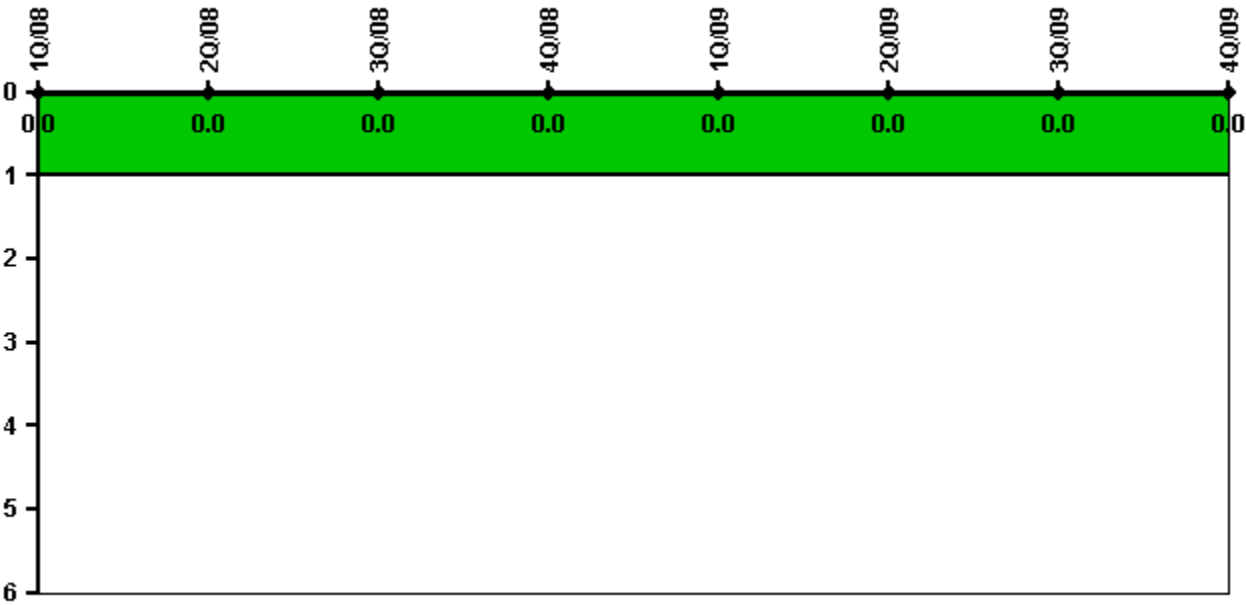
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	0	0	1.0	0	1.0	0	0	0
Critical hours	2148.2	2158.1	2113.1	2209.0	1853.5	1522.5	2208.0	2209.0
Indicator value	0.9	0.9	1.7	0.8	1.7	1.8	0.9	0.9

Licensee Comments: none

Unplanned Scrams with Complications



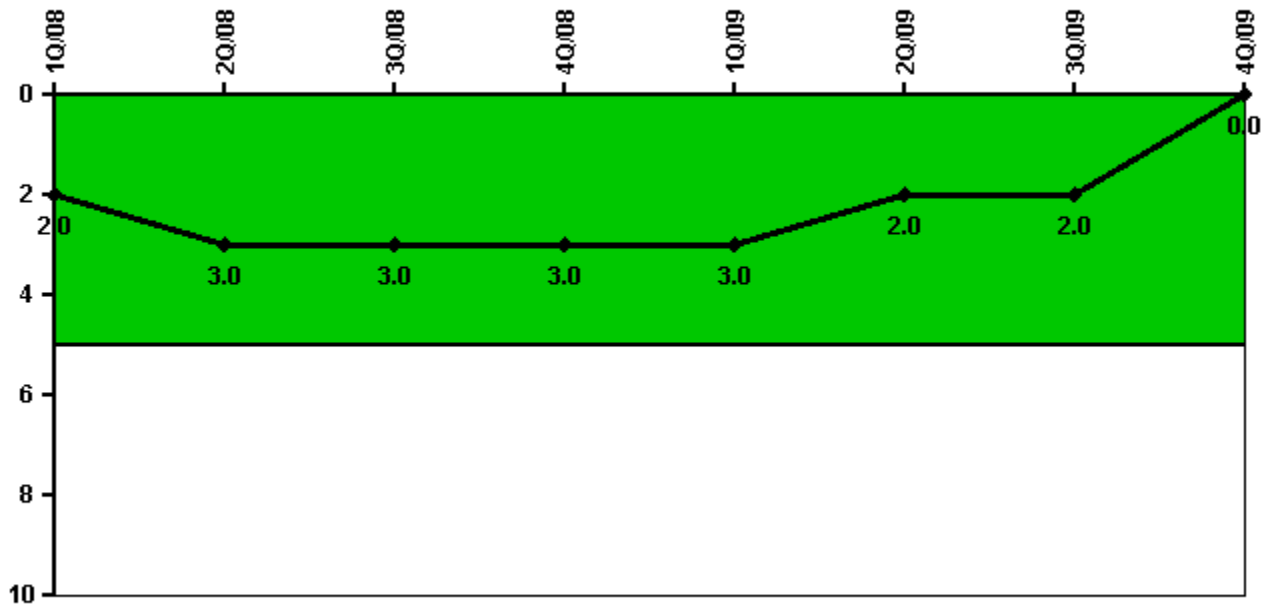
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Scrams with complications	0	0	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

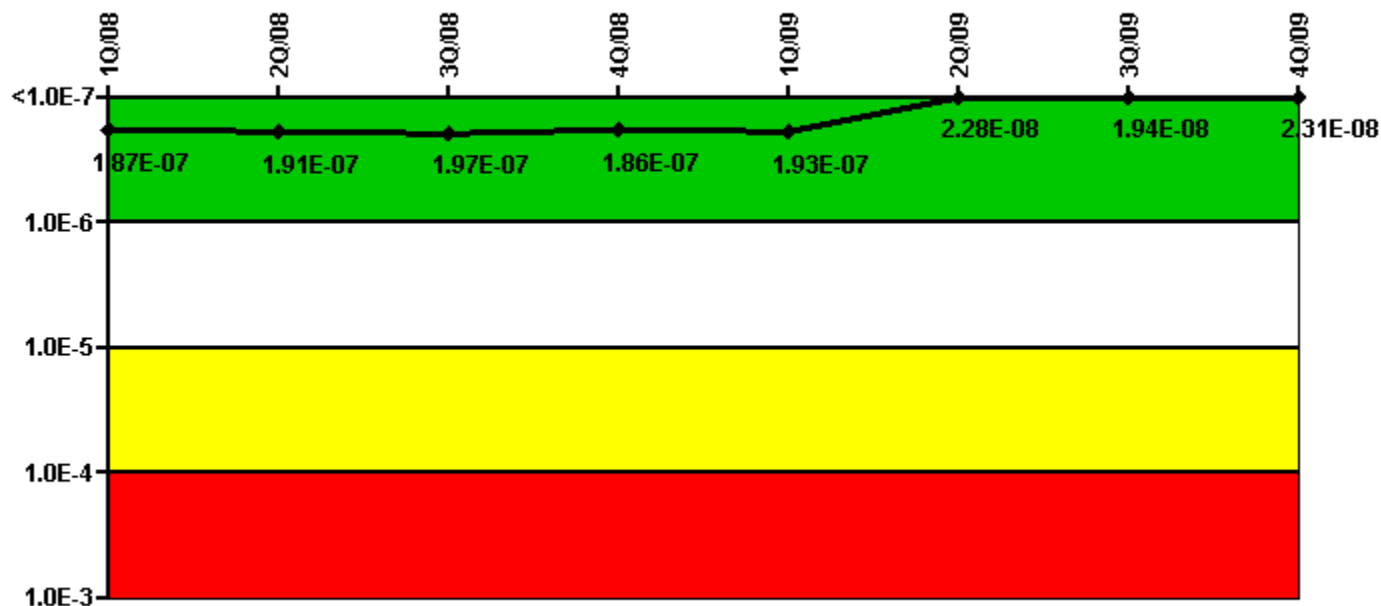
Notes

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	1	0	2	0	0	0	0
Indicator value	2	3	3	3	3	2	2	0

Licensee Comments:

4Q/09: The Dec 2009 Safety System Functional Failure (SSFF) Performance Indicator value is at zero (0).

Mitigating Systems Performance Index, Emergency AC Power System



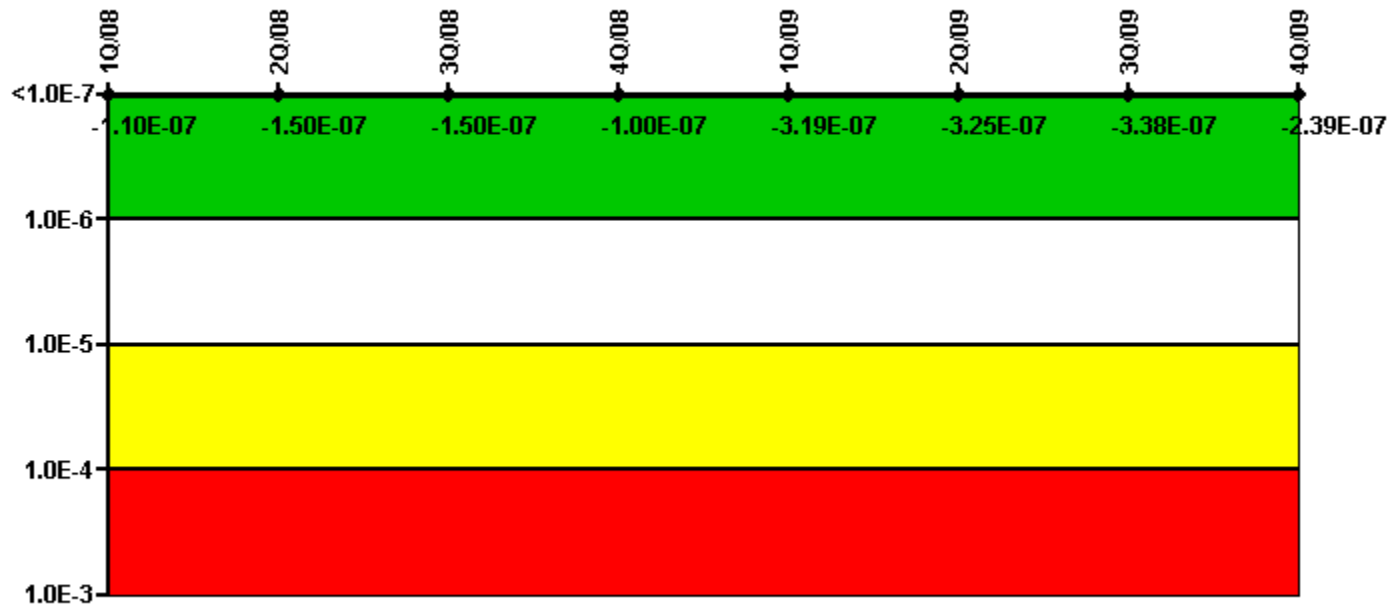
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	3.70E-08	4.10E-08	4.70E-08	3.60E-08	4.30E-08	3.00E-08	2.60E-08	2.90E-08
URI (ΔCDF)	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	-7.20E-09	-6.60E-09	-5.90E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.87E-07	1.91E-07	1.97E-07	1.86E-07	1.93E-07	2.28E-08	1.94E-08	2.31E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



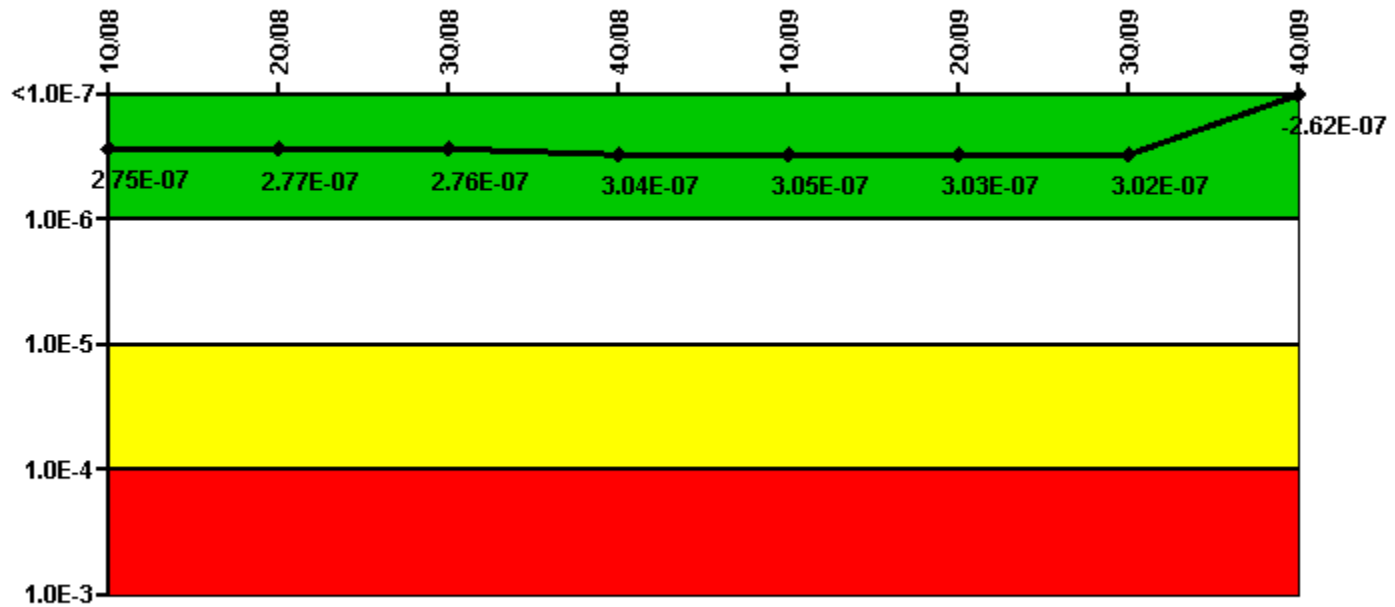
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	1.60E-07	1.20E-07	1.20E-07	1.70E-07	-4.90E-08	-5.50E-08	-6.80E-08	3.10E-08
URI (Δ CDF)	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-07	-1.50E-07	-1.50E-07	-1.00E-07	-3.19E-07	-3.25E-07	-3.38E-07	-2.39E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



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

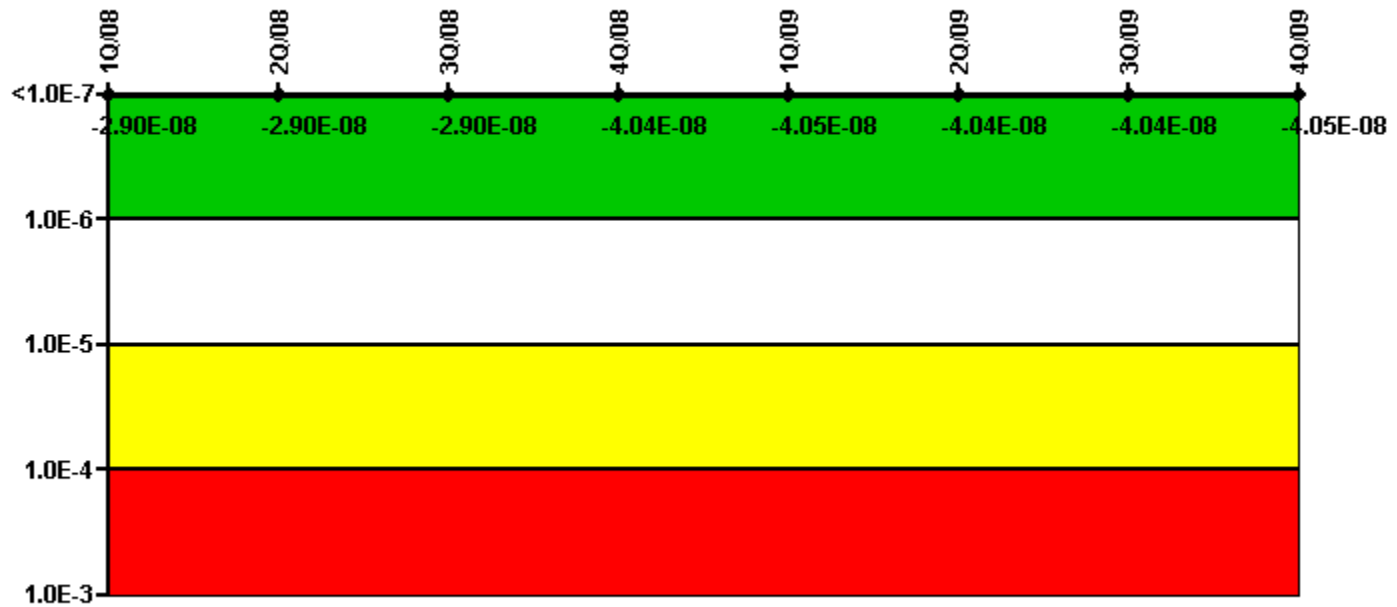
Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	-5.40E-09	-3.30E-09	-3.60E-09	2.40E-08	2.50E-08	2.30E-08	2.20E-08	1.80E-08
URI (ΔCDF)	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	-2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.75E-07	2.77E-07	2.76E-07	3.04E-07	3.05E-07	3.03E-07	3.02E-07	-2.62E-07

Licensee Comments:

4Q/09: Heat Removal System results improved due to November 2006 failures rolling off of 36-month calculation.

Mitigating Systems Performance Index, Residual Heat Removal System



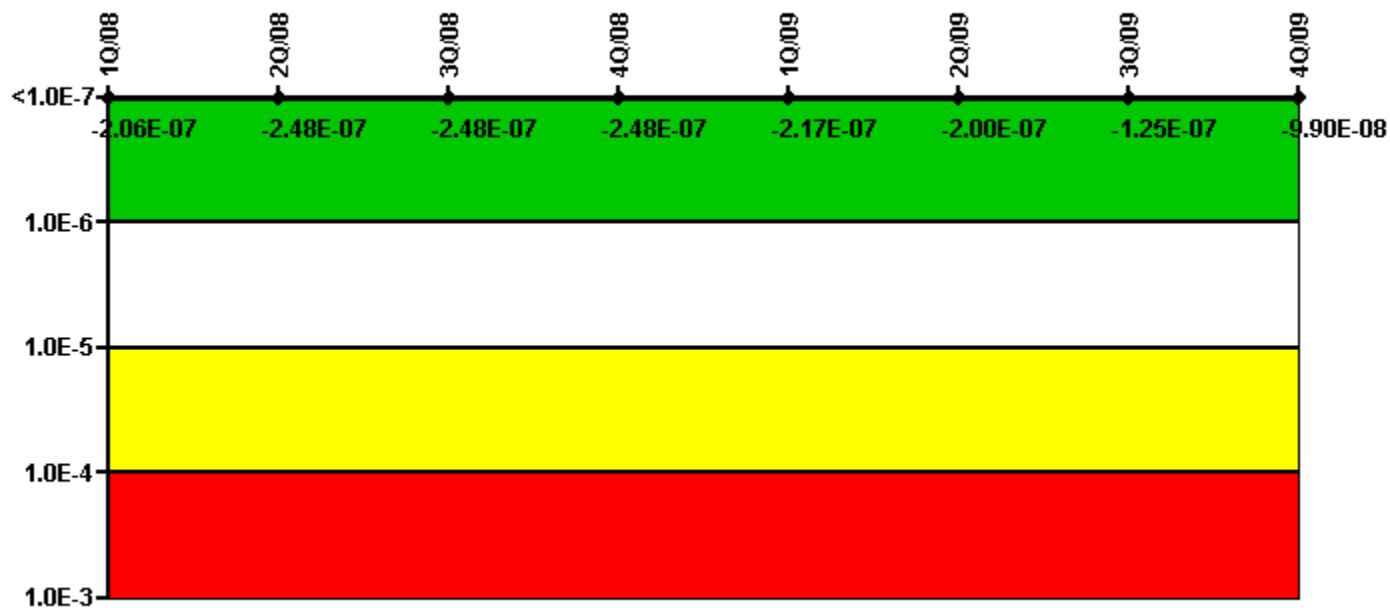
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	1.10E-08	1.10E-08	1.10E-08	-3.90E-10	-4.80E-10	-3.60E-10	-4.10E-10	-4.80E-10
URI (ΔCDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-08	-2.90E-08	-2.90E-08	-4.04E-08	-4.05E-08	-4.04E-08	-4.04E-08	-4.05E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



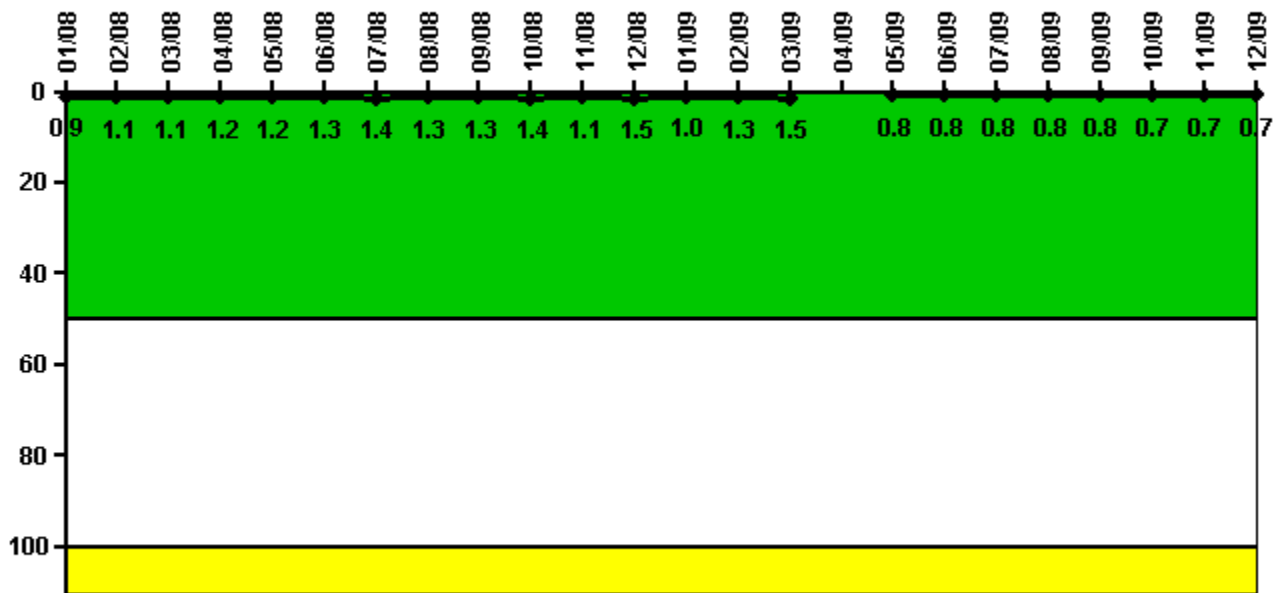
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	1.40E-08	-2.80E-08	-2.80E-08	-2.80E-08	1.30E-08	3.00E-08	5.50E-08	8.10E-08
URI (ΔCDF)	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.30E-07	-2.30E-07	-1.80E-07	-1.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.06E-07	-2.48E-07	-2.48E-07	-2.48E-07	-2.17E-07	-2.00E-07	-1.25E-07	-9.90E-08

Licensee Comments: none

Reactor Coolant System Activity



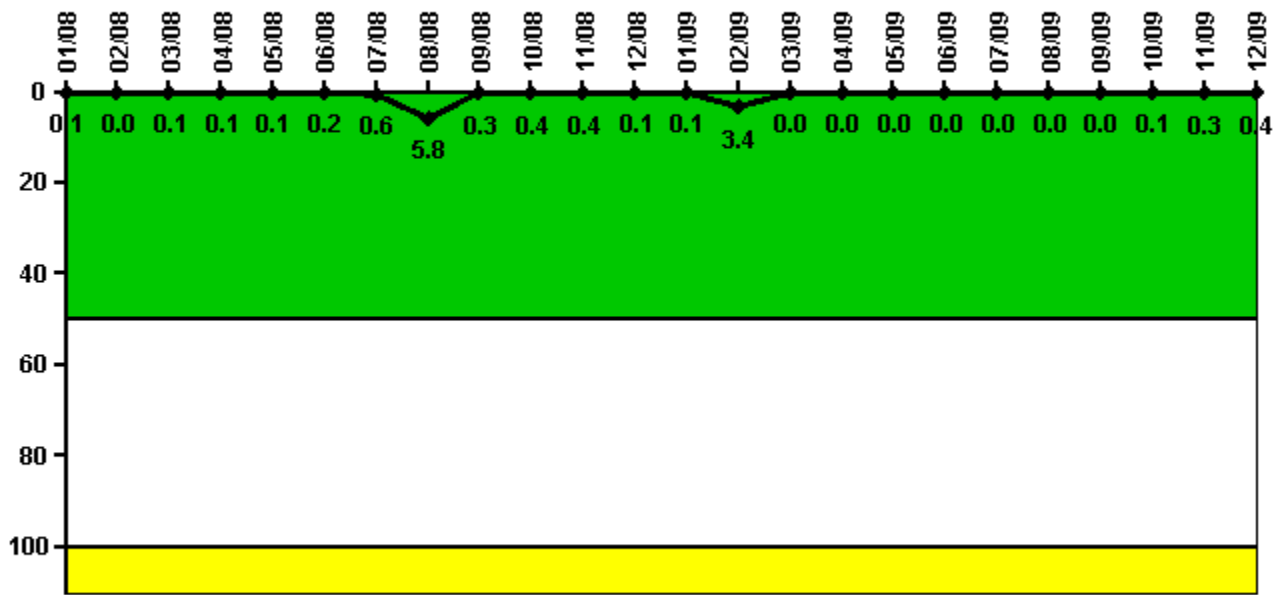
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum activity	0.009320	0.010600	0.011200	0.011500	0.012200	0.012900	0.014000	0.013200	0.013200	0.013700	0.010800	0.014600
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.9	1.1	1.1	1.2	1.2	1.3	1.4	1.3	1.3	1.4	1.1	1.5
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	0.010400	0.013200	0.014800	N/A	0.007570	0.007680	0.008310	0.008260	0.008190	0.007360	0.007120	0.007170
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.0	1.3	1.5	N/A	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7

Licensee Comments: none

Reactor Coolant System Leakage



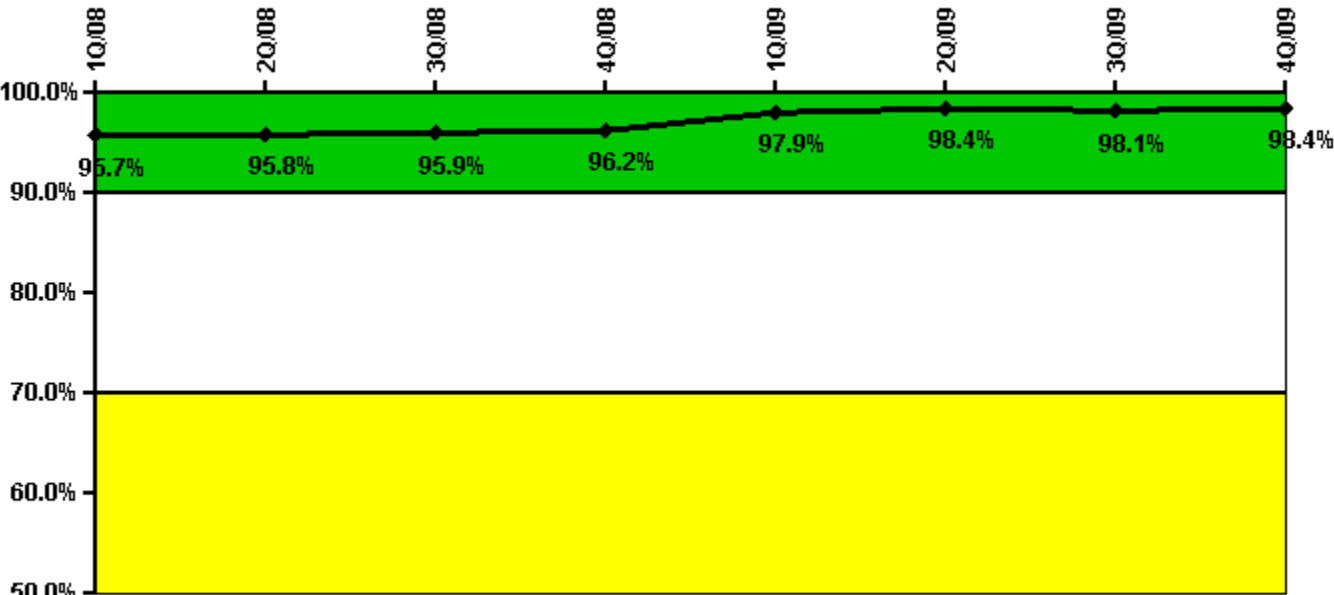
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum leakage	0.005	0.004	0.007	0.007	0.008	0.017	0.055	0.576	0.029	0.040	0.040	0.007
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	0	0.1	0.1	0.1	0.2	0.6	5.8	0.3	0.4	0.4	0.1
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	0.013	0.341	0.001	0	0.003	0.003	0.003	0.004	0.003	0.013	0.026	0.037
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	3.4	0	0	0	0	0	0	0	0.1	0.3	0.4

Licensee Comments: none

Drill/Exercise Performance



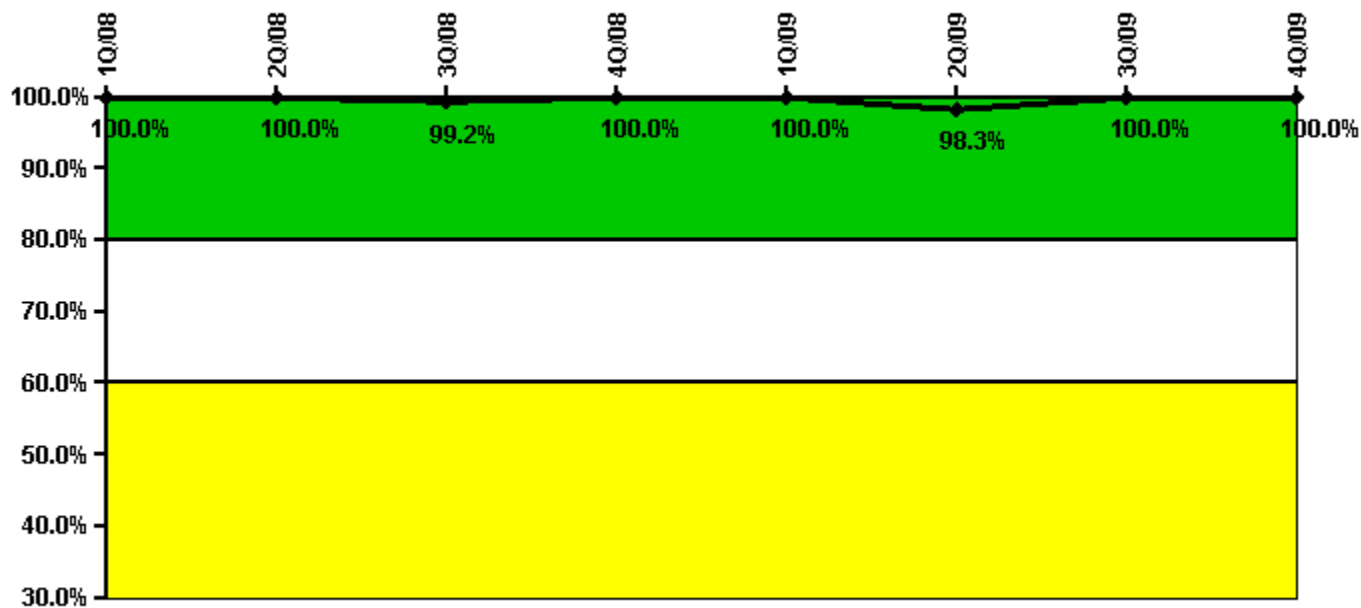
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful opportunities	58.0	42.0	44.0	45.0	65.0	12.0	23.0	22.0
Total opportunities	60.0	42.0	44.0	46.0	66.0	12.0	24.0	22.0
Indicator value	95.7%	95.8%	95.9%	96.2%	97.9%	98.4%	98.1%	98.4%

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	117.0	112.0	119.0	118.0	120.0	113.0	122.0	123.0
Total Key personnel	117.0	112.0	120.0	118.0	120.0	115.0	122.0	123.0
Indicator value	100.0%	100.0%	99.2%	100.0%	100.0%	98.3%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



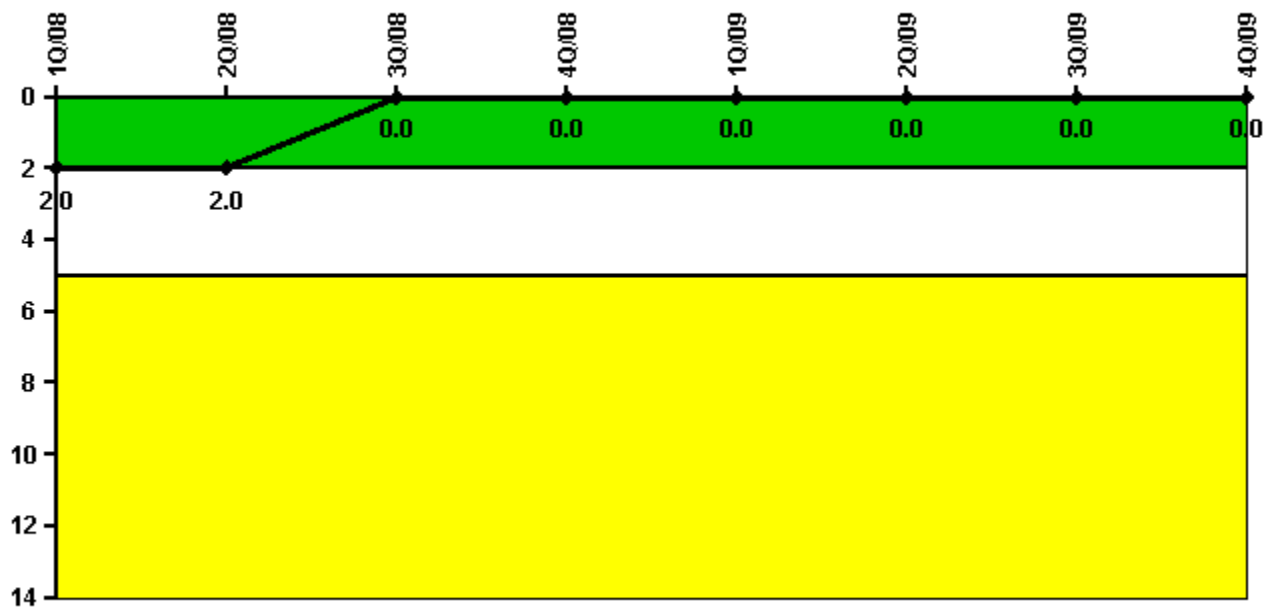
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful siren-tests	182	183	183	183	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.9%	99.9%	99.9%	99.9%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



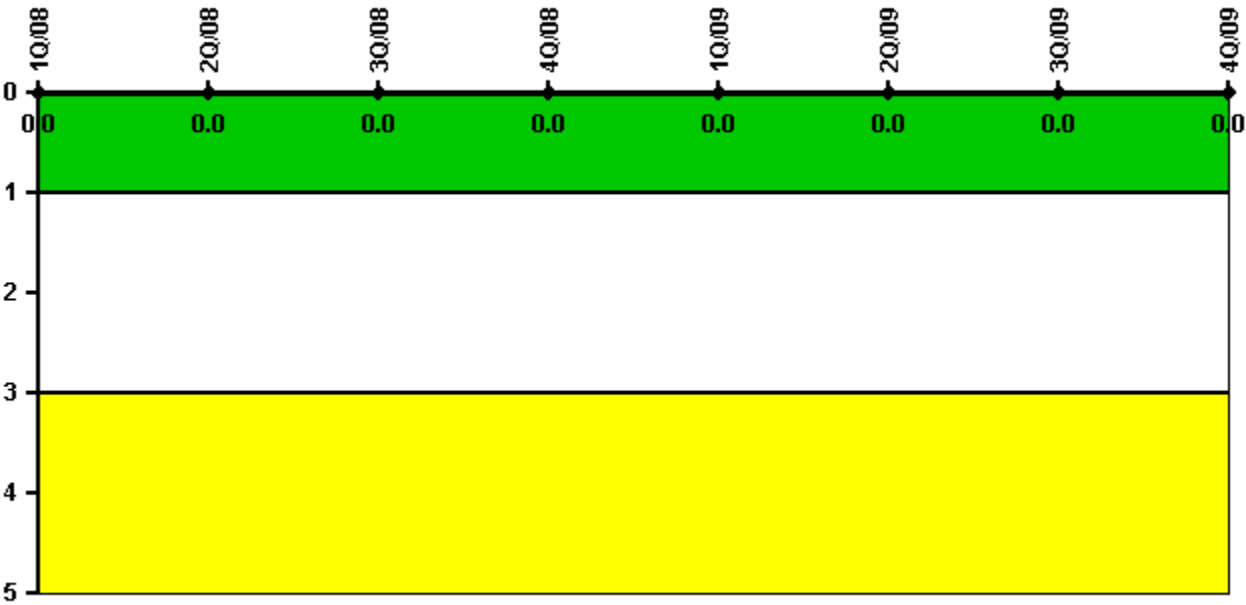
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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	2	2	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

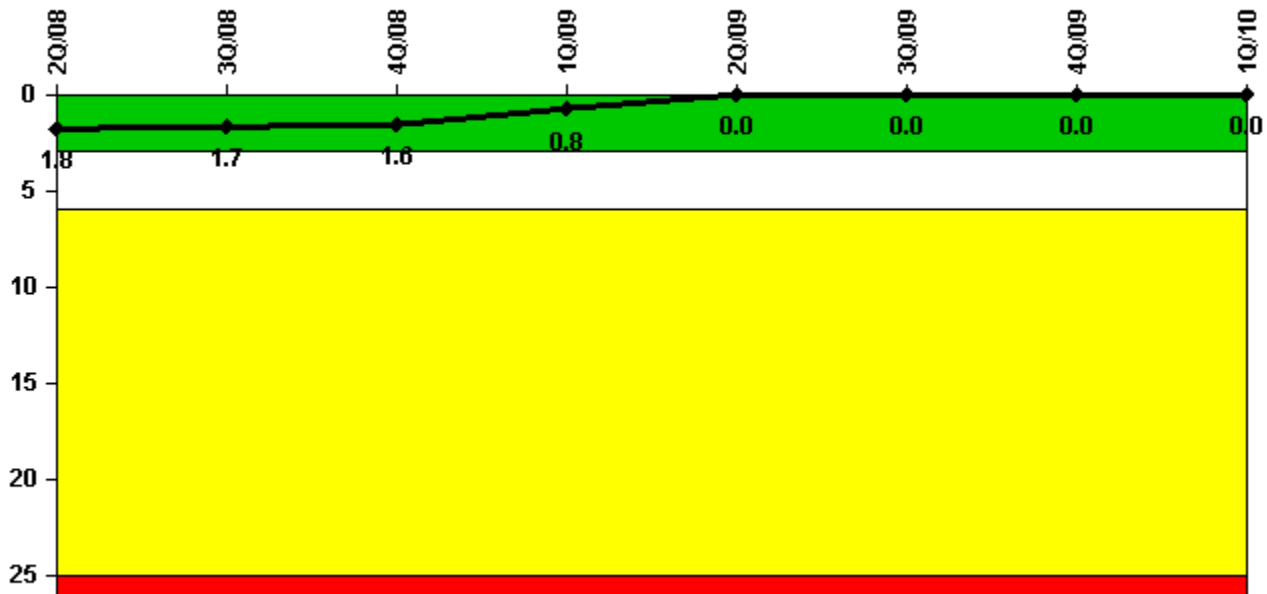
[Security](#) information not publicly available.

Palisades

1Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



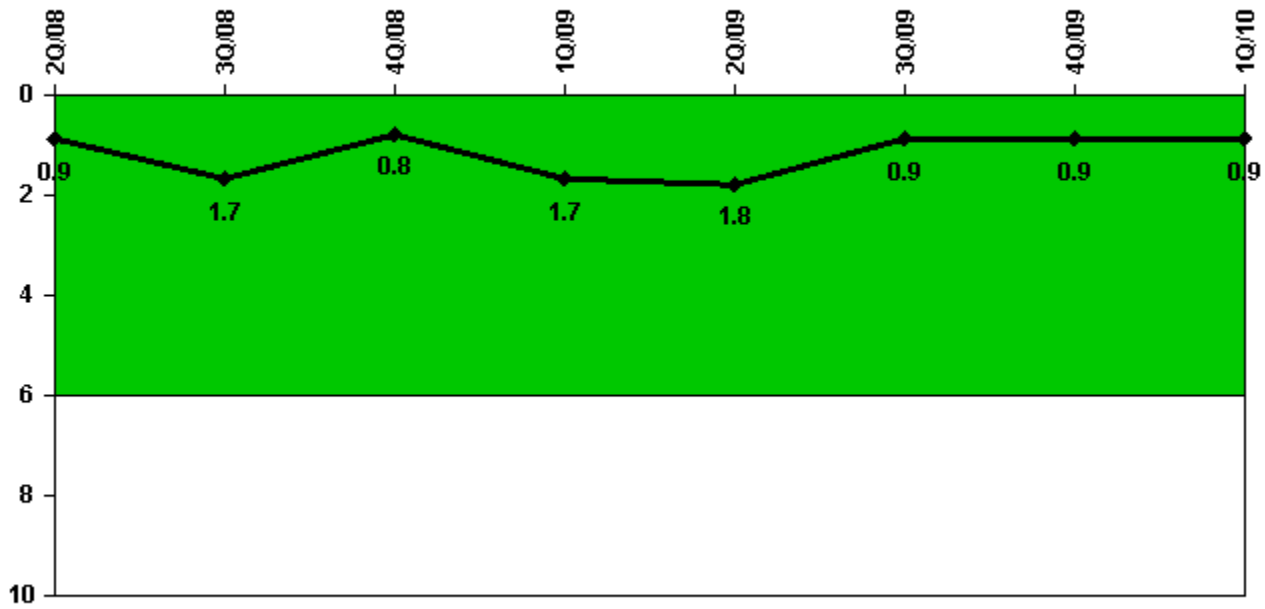
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2158.1	2113.1	2209.0	1853.5	1522.5	2208.0	2209.0	2159.0
Indicator value	1.8	1.7	1.6	0.8	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



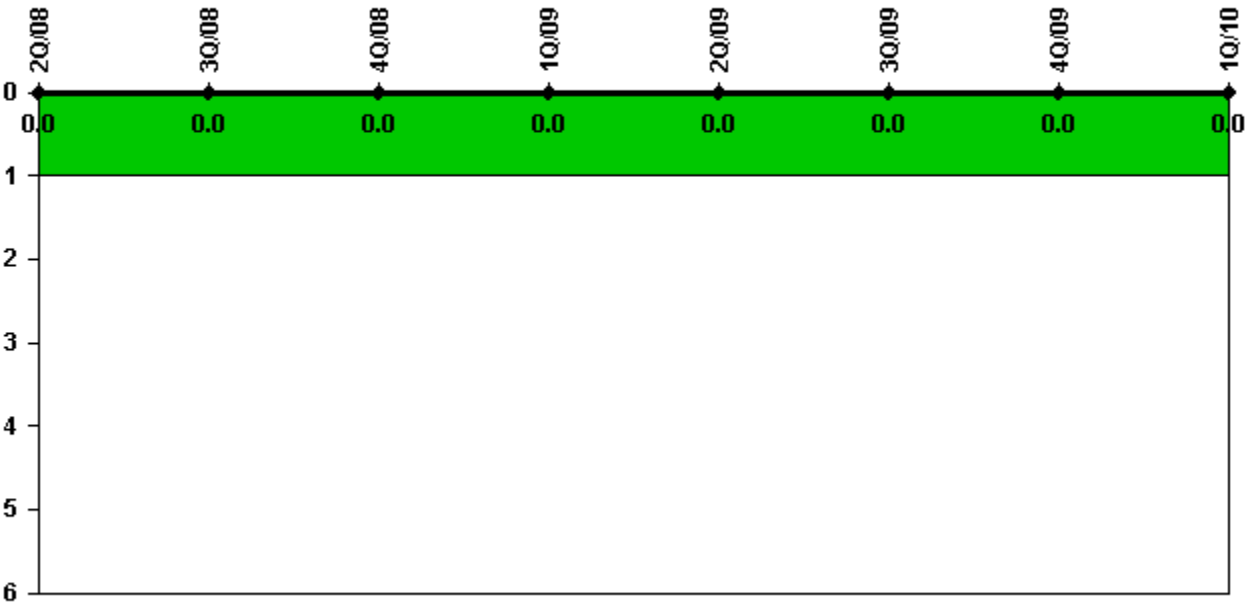
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	0	1.0	0	1.0	0	0	0	1.0
Critical hours	2158.1	2113.1	2209.0	1853.5	1522.5	2208.0	2209.0	2159.0
Indicator value	0.9	1.7	0.8	1.7	1.8	0.9	0.9	0.9

Licensee Comments: none

Unplanned Scrams with Complications



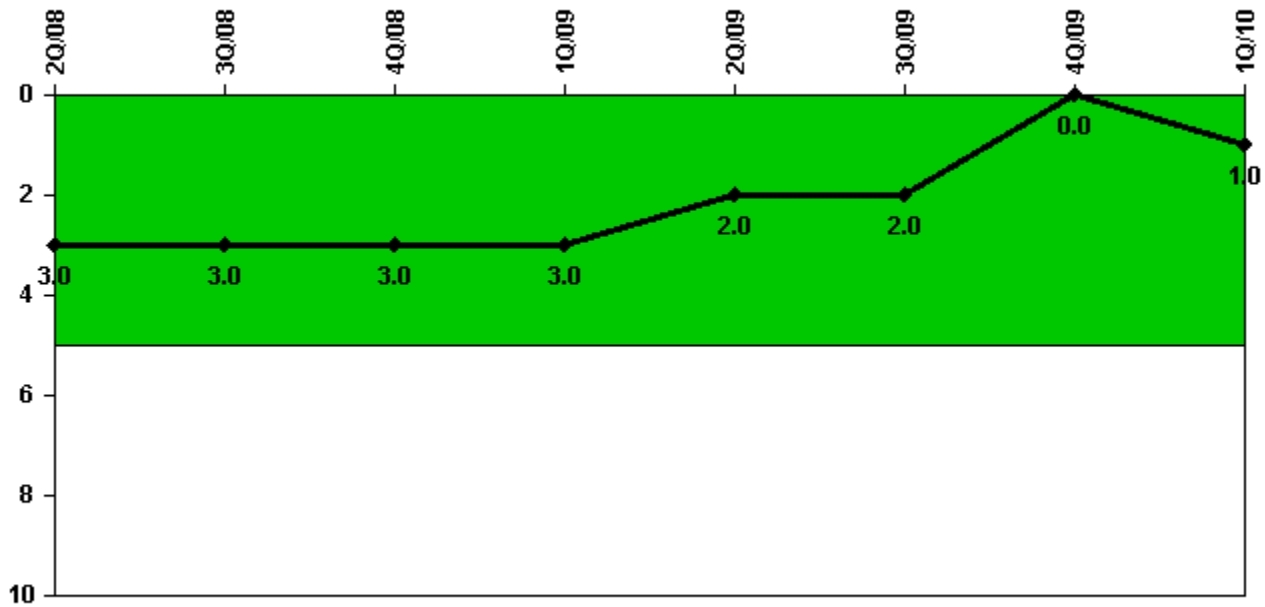
Thresholds: White > 1.0

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

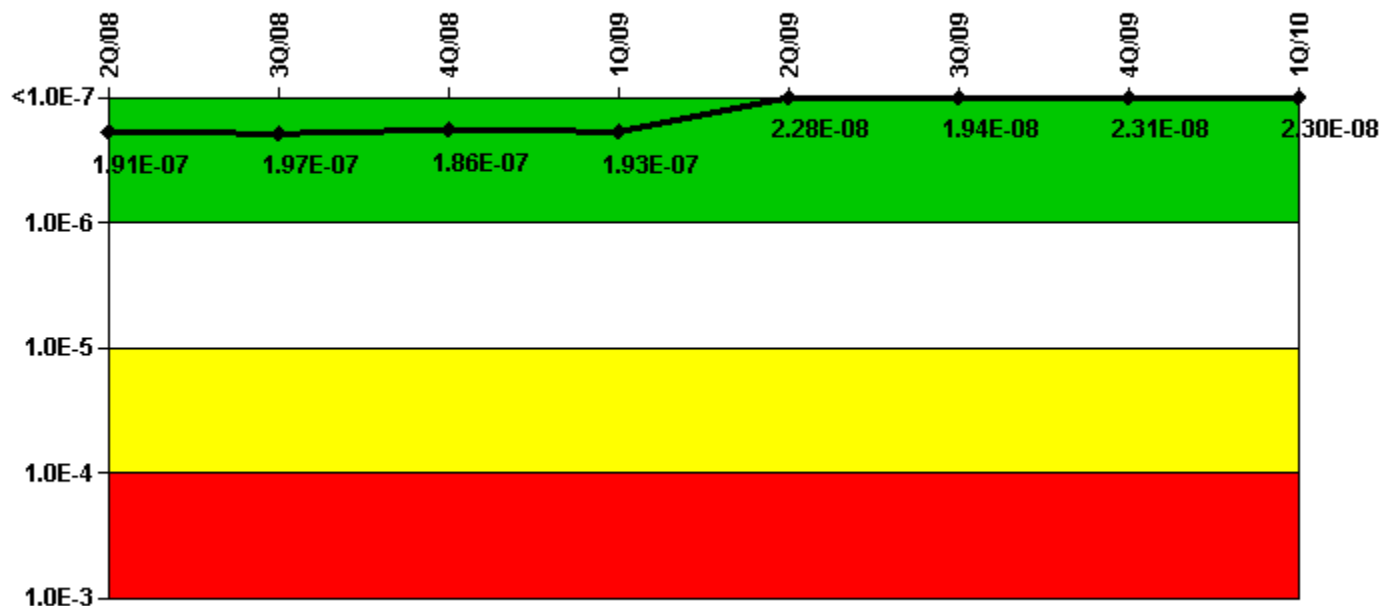
Notes

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	1	0	2	0	0	0	0	1
Indicator value	3	3	3	3	2	2	0	1

Licensee Comments:

1Q/10: March 2010, LER 2010-001-00 Potential Loss of Safety Function Due to a Service Water Pump Shaft Coupling Failure

Mitigating Systems Performance Index, Emergency AC Power System



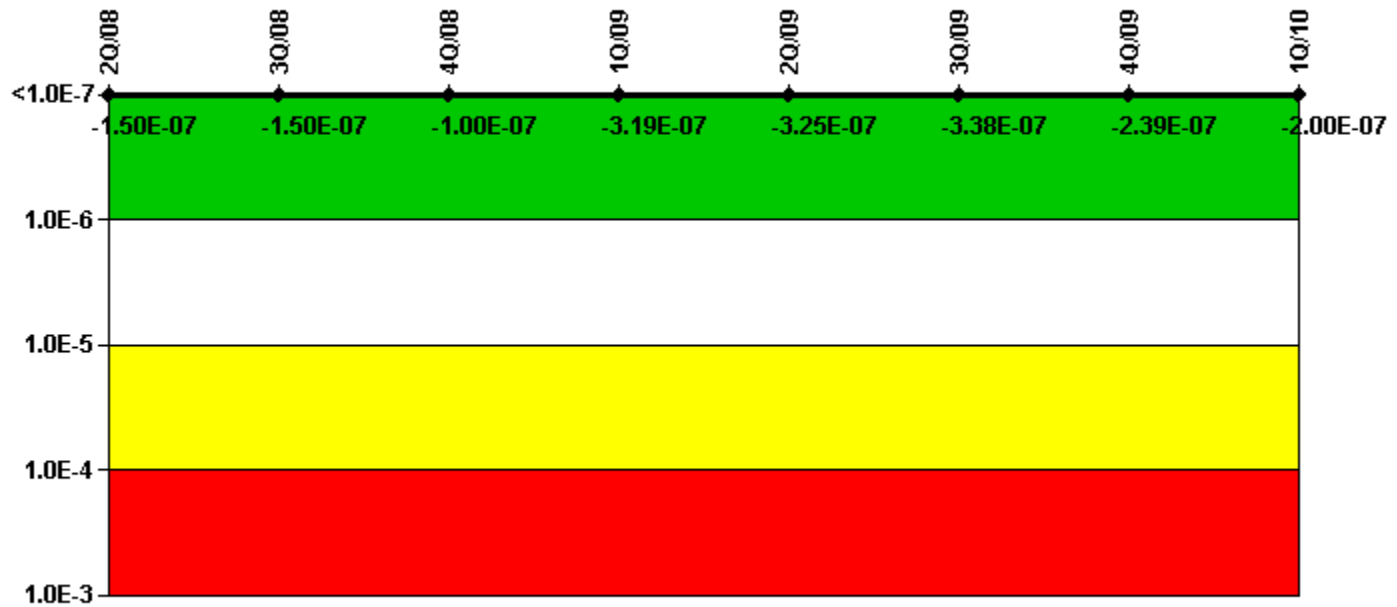
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	4.10E-08	4.70E-08	3.60E-08	4.30E-08	3.00E-08	2.60E-08	2.90E-08	2.82E-08
URI (ΔCDF)	1.50E-07	1.50E-07	1.50E-07	1.50E-07	-7.20E-09	-6.60E-09	-5.90E-09	-5.21E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.91E-07	1.97E-07	1.86E-07	1.93E-07	2.28E-08	1.94E-08	2.31E-08	2.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



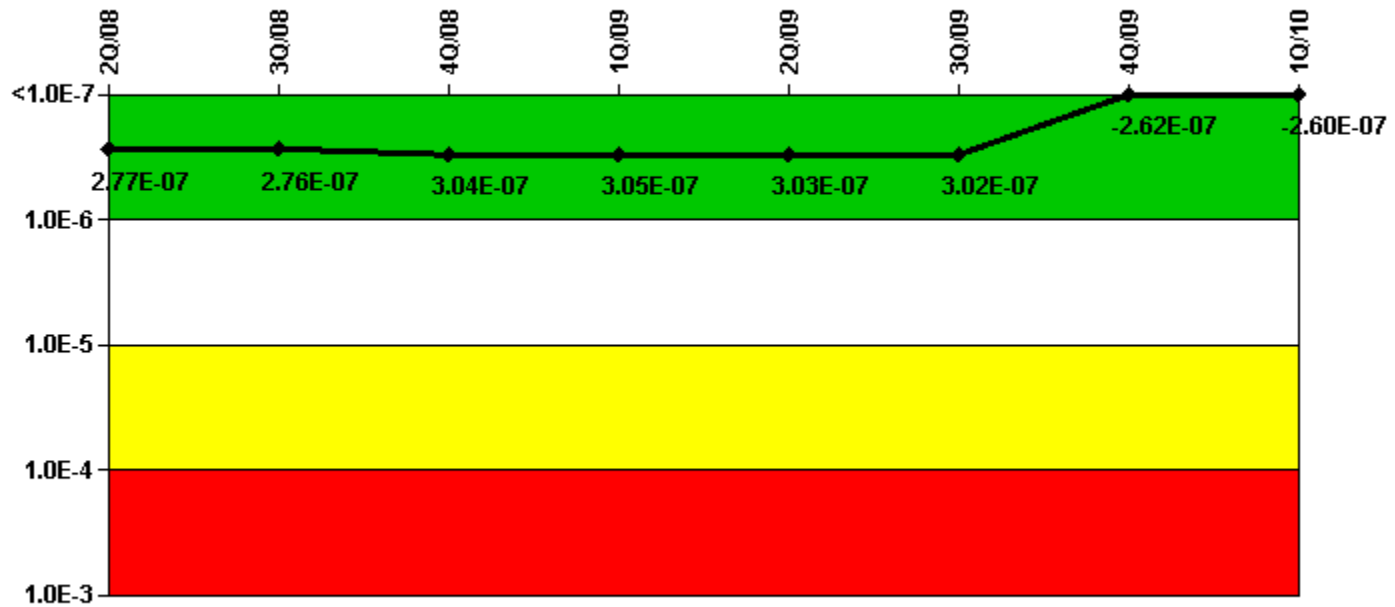
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	1.20E-07	1.20E-07	1.70E-07	-4.90E-08	-5.50E-08	-6.80E-08	3.10E-08	6.09E-08
URI (Δ CDF)	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-07	-1.50E-07	-1.00E-07	-3.19E-07	-3.25E-07	-3.38E-07	-2.39E-07	-2.00E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



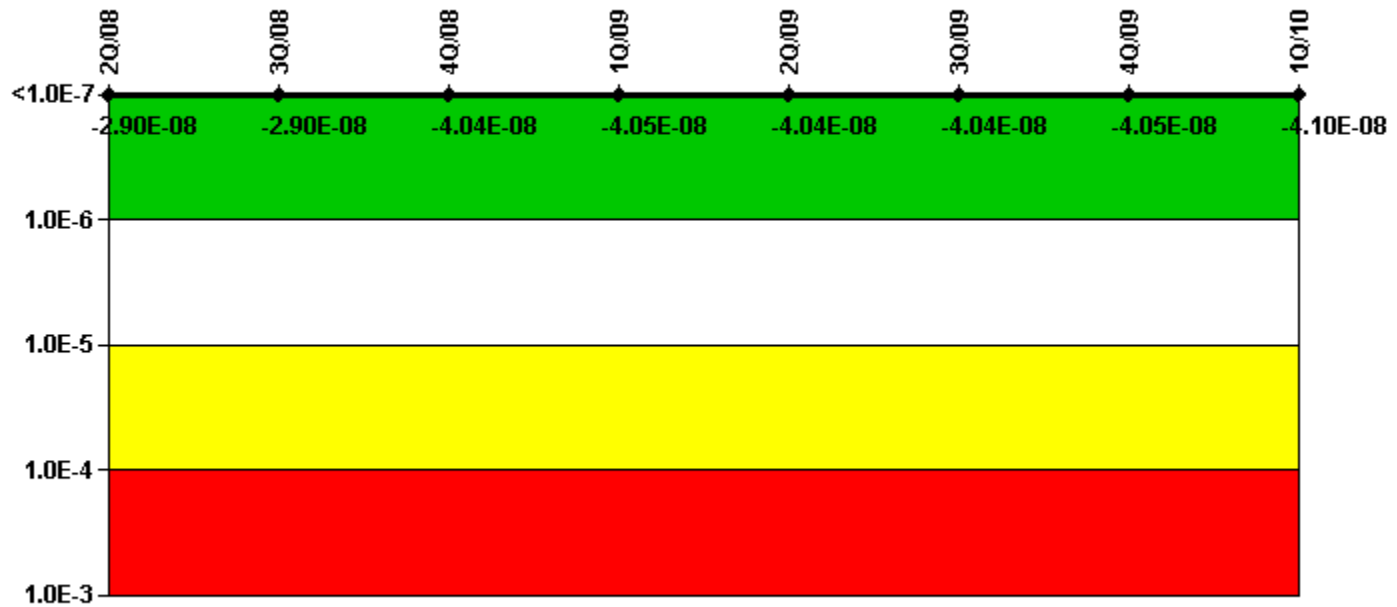
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-3.30E-09	-3.60E-09	2.40E-08	2.50E-08	2.30E-08	2.20E-08	1.80E-08	2.03E-08
URI (Δ CDF)	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	-2.80E-07	-2.77E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.77E-07	2.76E-07	3.04E-07	3.05E-07	3.03E-07	3.02E-07	-2.62E-07	-2.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



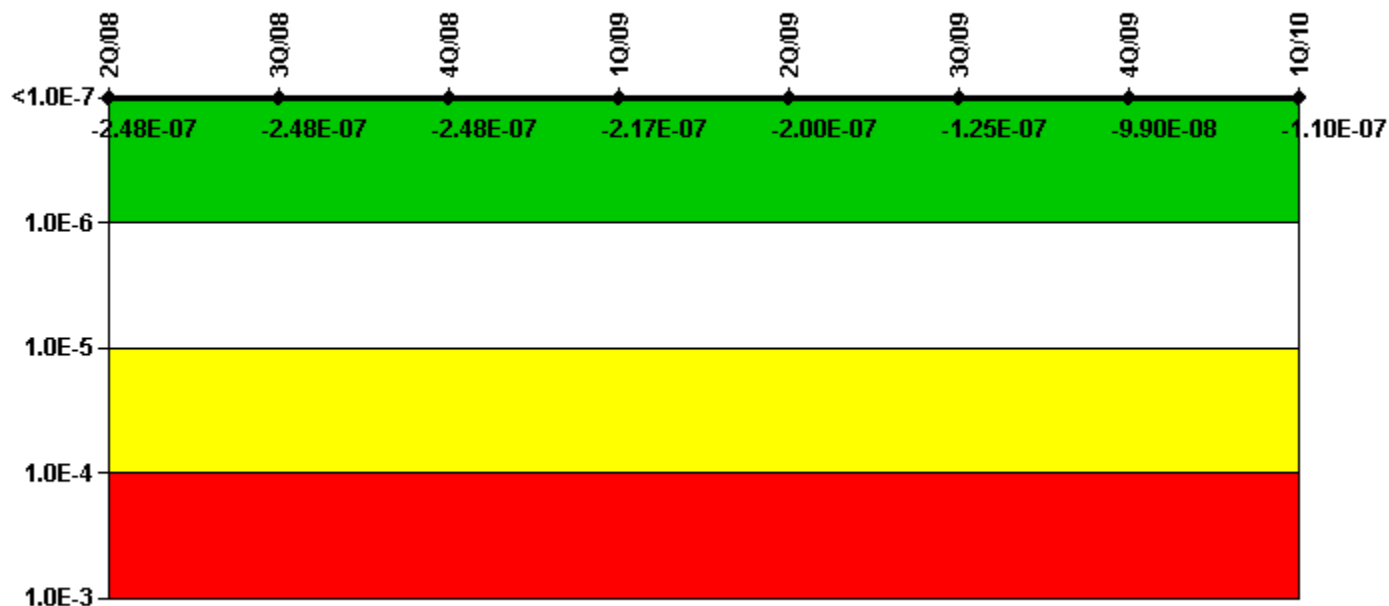
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	1.10E-08	1.10E-08	-3.90E-10	-4.80E-10	-3.60E-10	-4.10E-10	-4.80E-10	-3.39E-10
URI (Δ CDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-08	-2.90E-08	-4.04E-08	-4.05E-08	-4.04E-08	-4.04E-08	-4.05E-08	-4.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



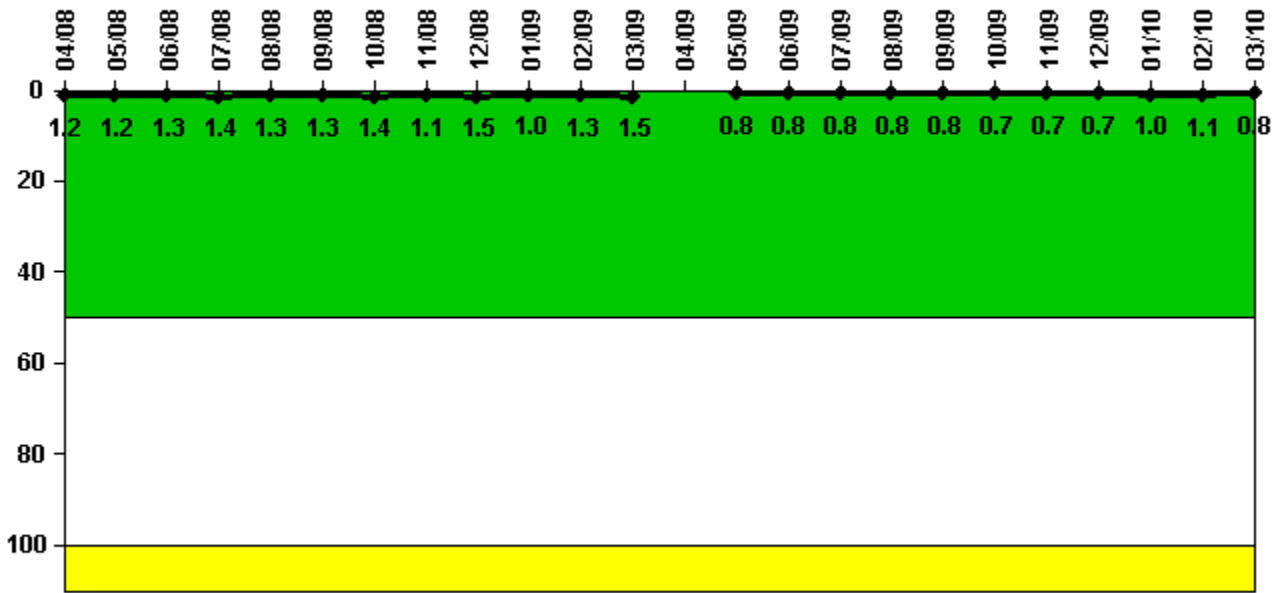
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	-2.80E-08	-2.80E-08	-2.80E-08	1.30E-08	3.00E-08	5.50E-08	8.10E-08	7.05E-08
URI (ΔCDF)	-2.20E-07	-2.20E-07	-2.20E-07	-2.30E-07	-2.30E-07	-1.80E-07	-1.80E-07	-1.84E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.48E-07	-2.48E-07	-2.48E-07	-2.17E-07	-2.00E-07	-1.25E-07	-9.90E-08	-1.10E-07

Licensee Comments: none

Reactor Coolant System Activity



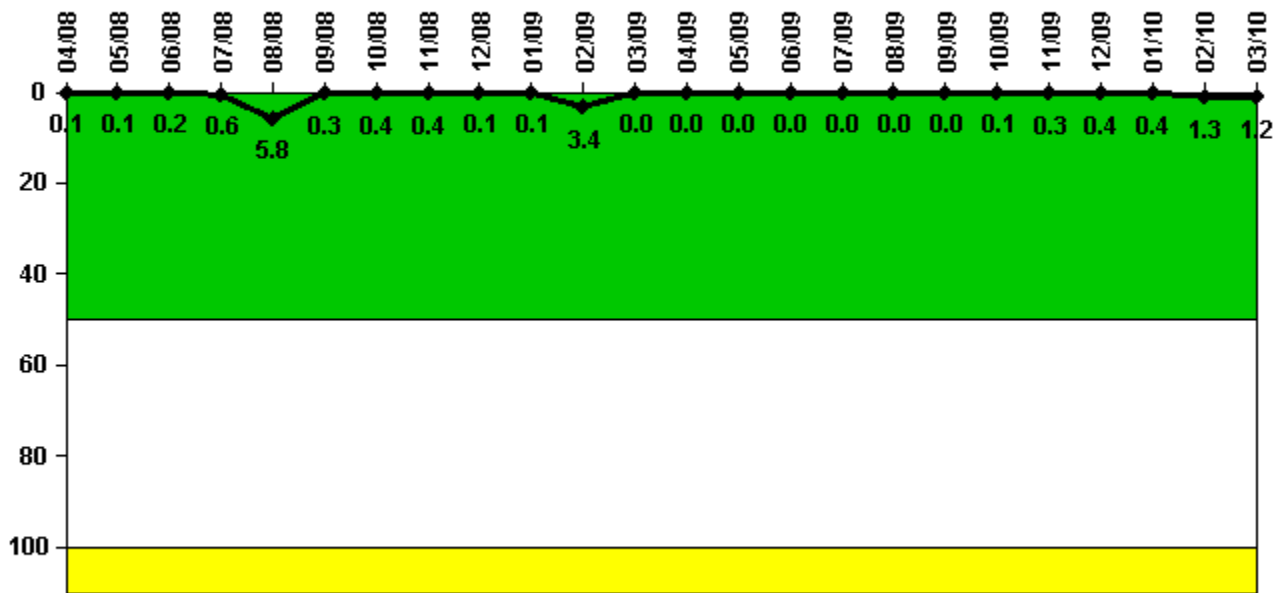
Thresholds: White > 50.0 Yellow > 100.0

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	0.011500	0.012200	0.012900	0.014000	0.013200	0.013200	0.013700	0.010800	0.014600	0.010400	0.013200	0.014800
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.2	1.2	1.3	1.4	1.3	1.3	1.4	1.1	1.5	1.0	1.3	1.5
Reactor Coolant System Activity	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum activity	N/A	0.007570	0.007680	0.008310	0.008260	0.008190	0.007360	0.007120	0.007170	0.010300	0.011000	0.007520
Technical specification limit	1.0	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	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	1.0	1.1	0.8

Licensee Comments: none

Reactor Coolant System Leakage



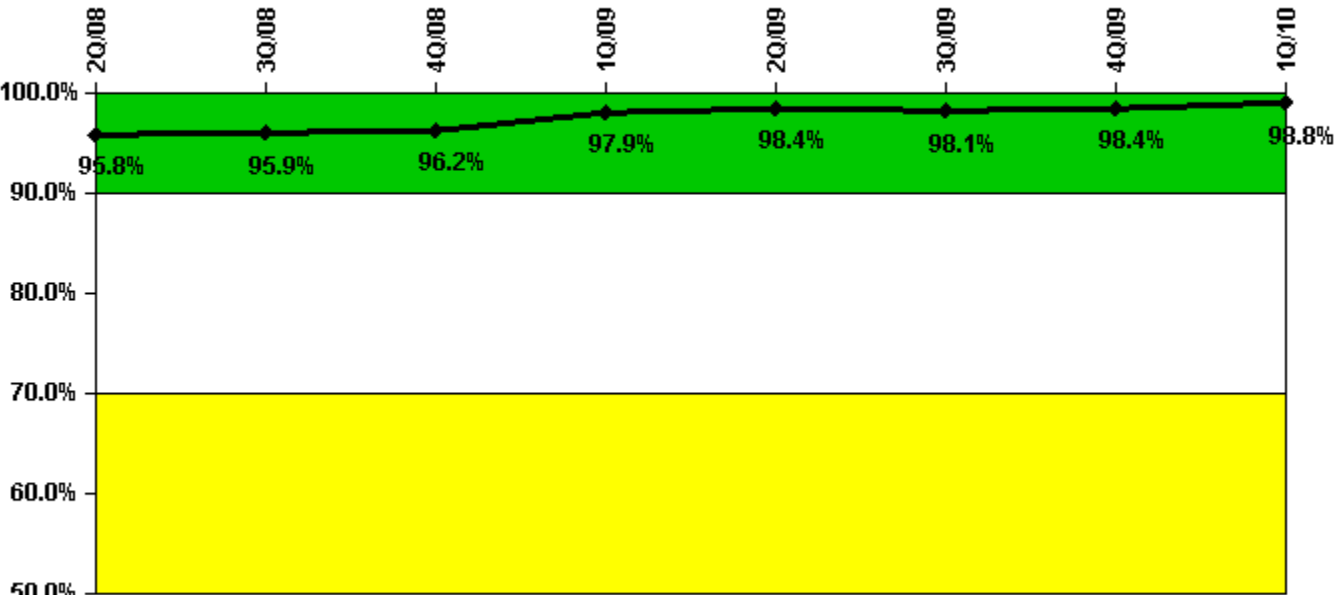
Thresholds: White > 50.0 Yellow > 100.0

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	0.007	0.008	0.017	0.055	0.576	0.029	0.040	0.040	0.007	0.013	0.341	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	0.1	0.2	0.6	5.8	0.3	0.4	0.4	0.1	0.1	3.4	0
Reactor Coolant System Leakage	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum leakage	0	0.003	0.003	0.003	0.004	0.003	0.013	0.026	0.037	0.037	0.132	0.119
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0.1	0.3	0.4	0.4	1.3	1.2

Licensee Comments: none

Drill/Exercise Performance



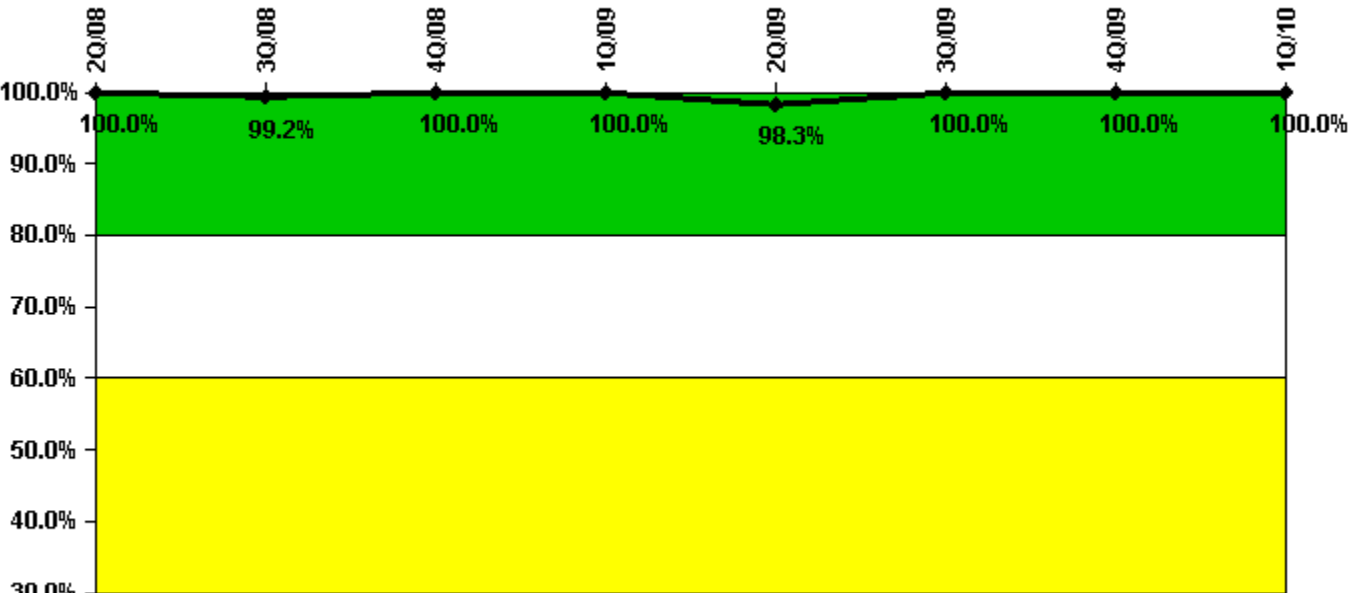
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful opportunities	42.0	44.0	45.0	65.0	12.0	23.0	22.0	89.0
Total opportunities	42.0	44.0	46.0	66.0	12.0	24.0	22.0	90.0
Indicator value	95.8%	95.9%	96.2%	97.9%	98.4%	98.1%	98.4%	98.8%

Licensee Comments: none

ERO Drill Participation



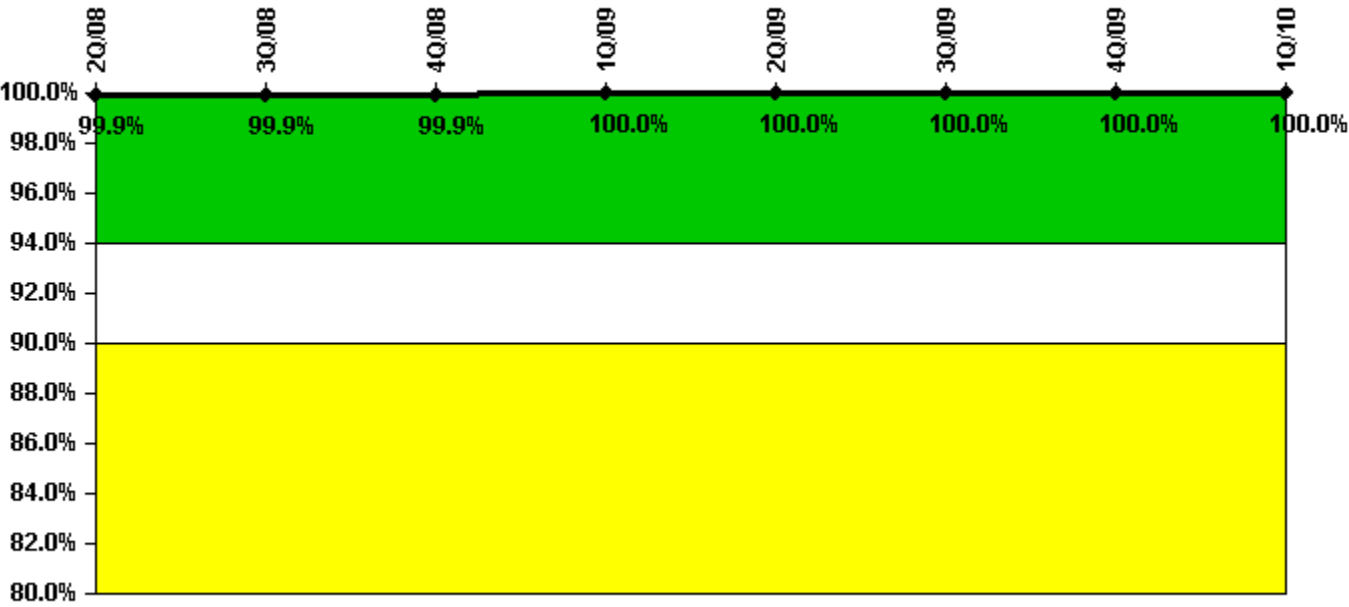
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Participating Key personnel	112.0	119.0	118.0	120.0	113.0	122.0	123.0	75.0
Total Key personnel	112.0	120.0	118.0	120.0	115.0	122.0	123.0	75.0
Indicator value	100.0%	99.2%	100.0%	100.0%	98.3%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



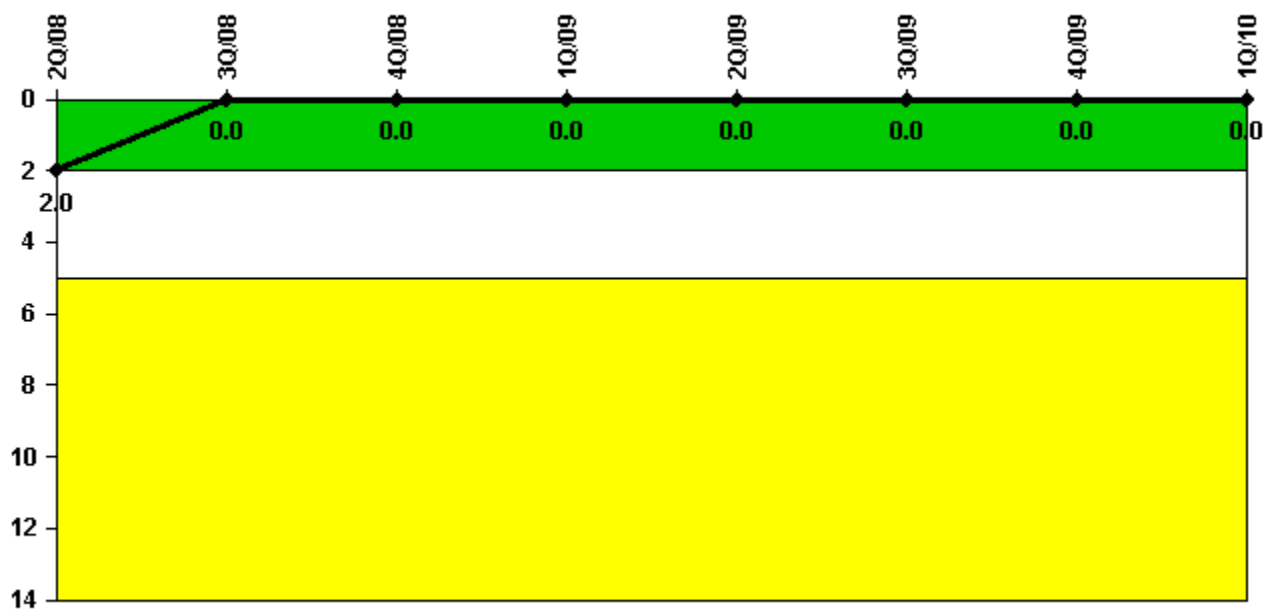
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful siren-tests	183	183	183	183	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
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



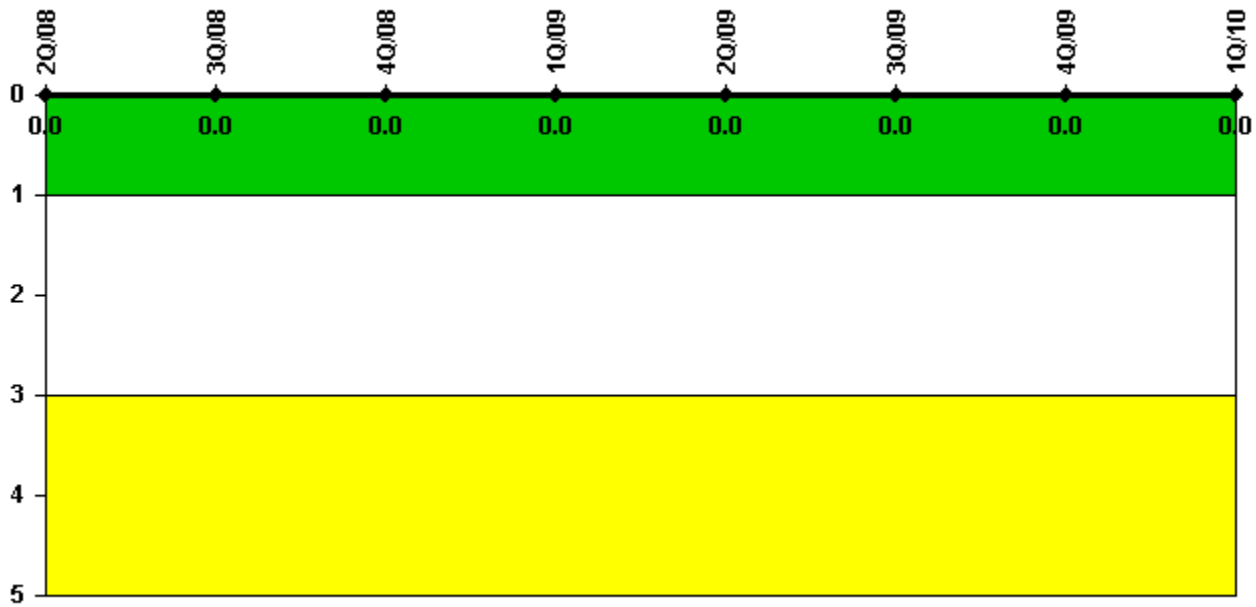
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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	2	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

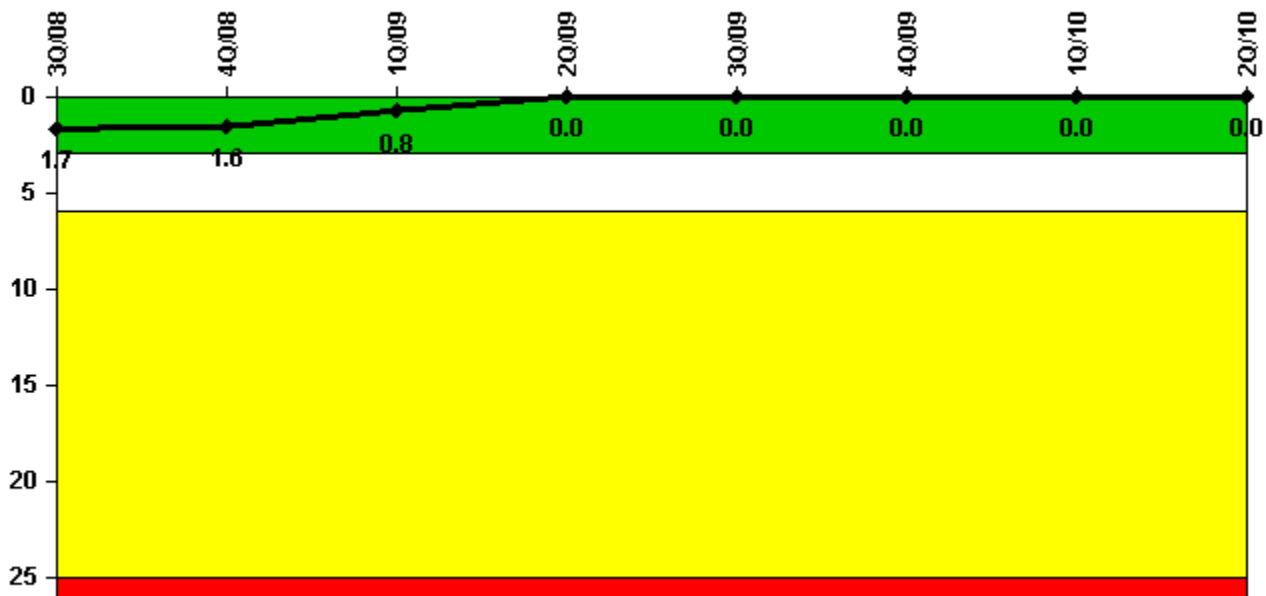
[Security](#) information not publicly available.

Palisades

2Q/2010 Performance Indicators

Licensee's General Comments: No MSPI Failures occurred in June of 2008. This is a revision to the original validation package. During unavailability reviews it was determined that unavailability was not recorded for RE-137, "CALIBRATION OF BUS 1C UNDERVOLTAGE AND TIME DELAY RELAYS", performed on 6/2/2008 and RE-138, "CALIBRATION OF BUS 10 UNDERVOLTAGE AND TIME DELAY RELAYS", performed on 6/16/2008 (CR-PLP-2010-01612). The monthly MSPI number changed as a result of changing EPIX failure report #446 to "MSPI Failure No" in September 2008 and was not changed by the additional unavailability reported in this revision.

Unplanned Scrams per 7000 Critical Hrs



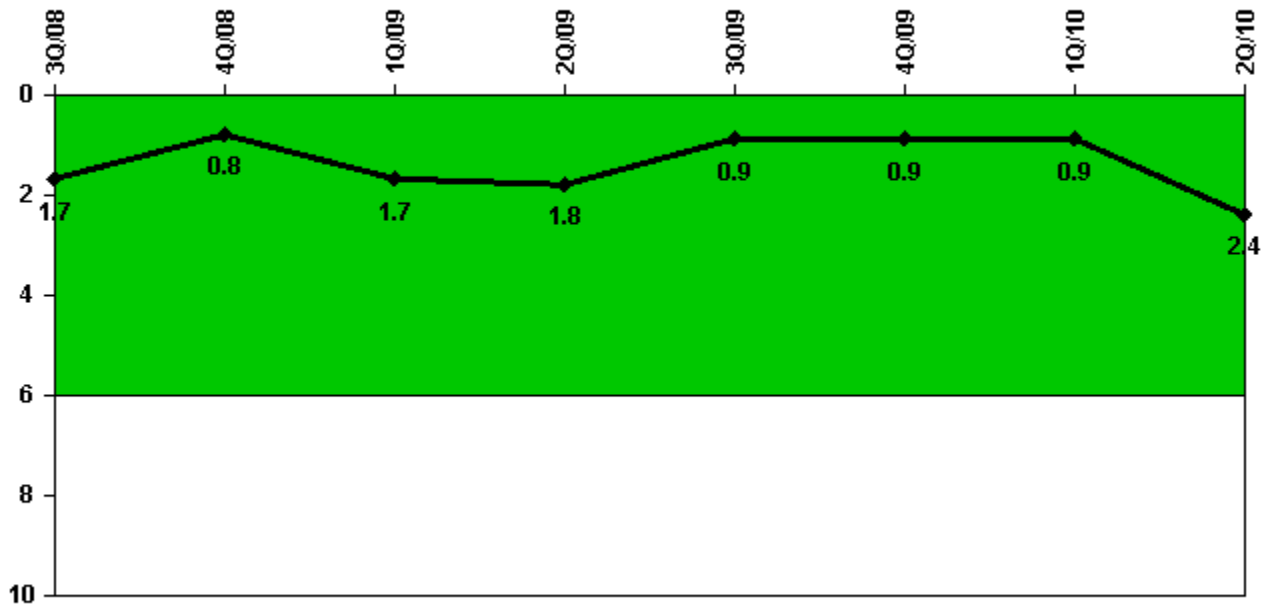
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2113.1	2209.0	1853.5	1522.5	2208.0	2209.0	2159.0	2031.9
Indicator value	1.7	1.6	0.8	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



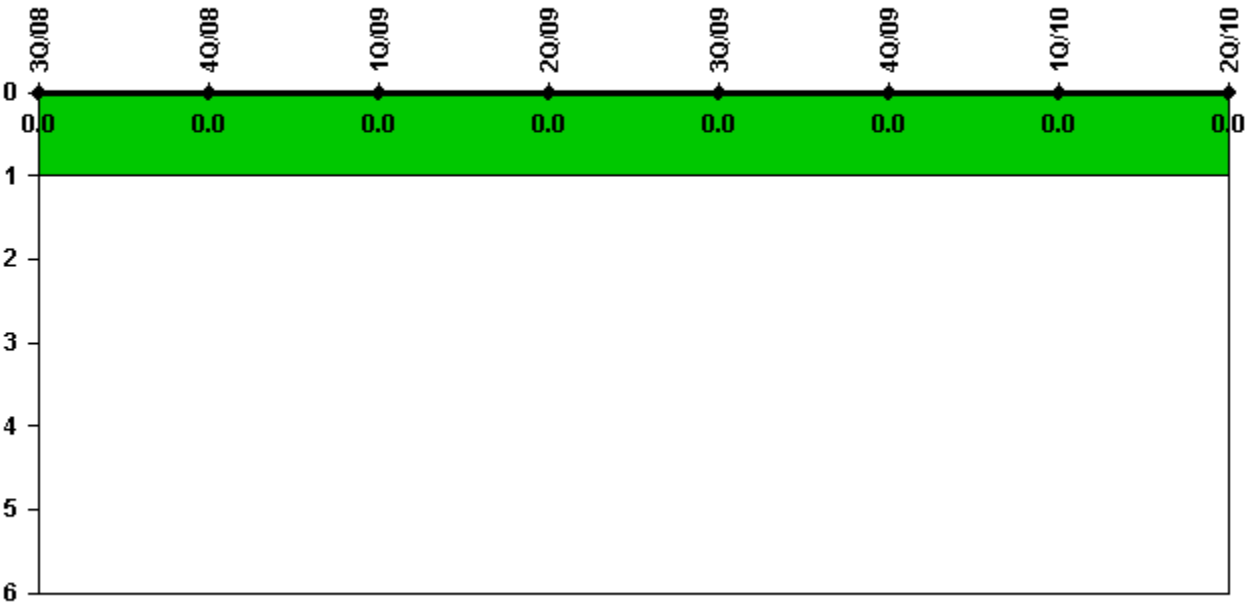
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned power changes	1.0	0	1.0	0	0	0	1.0	2.0
Critical hours	2113.1	2209.0	1853.5	1522.5	2208.0	2209.0	2159.0	2031.9
Indicator value	1.7	0.8	1.7	1.8	0.9	0.9	0.9	2.4

Licensee Comments: none

Unplanned Scrams with Complications



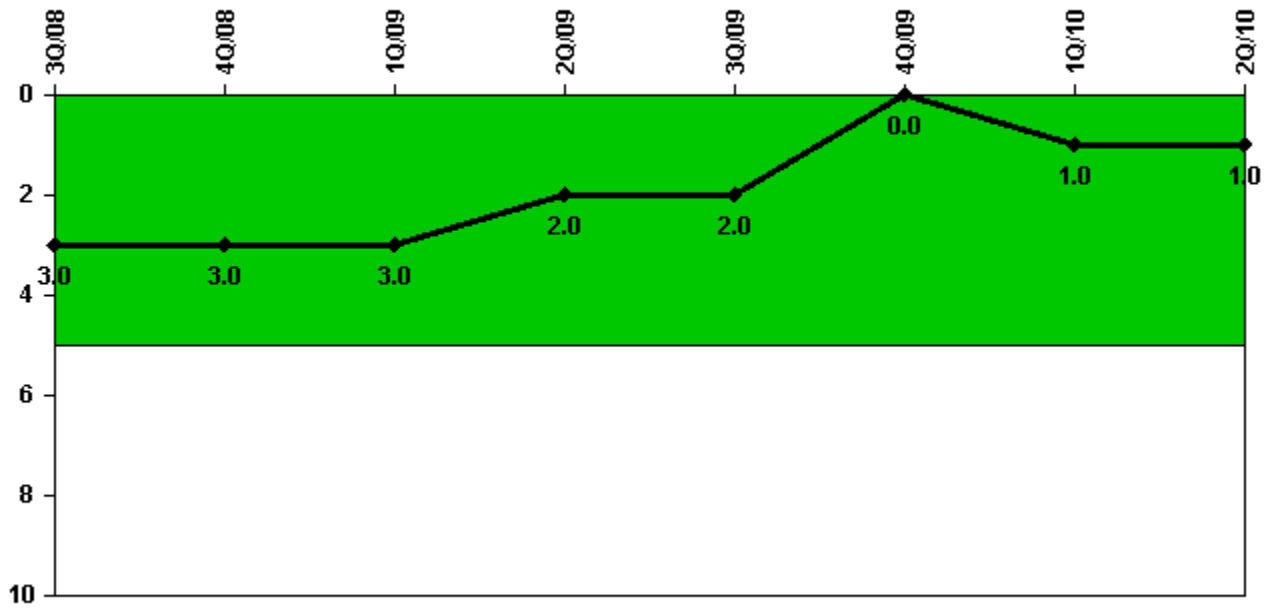
Thresholds: White > 1.0

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)



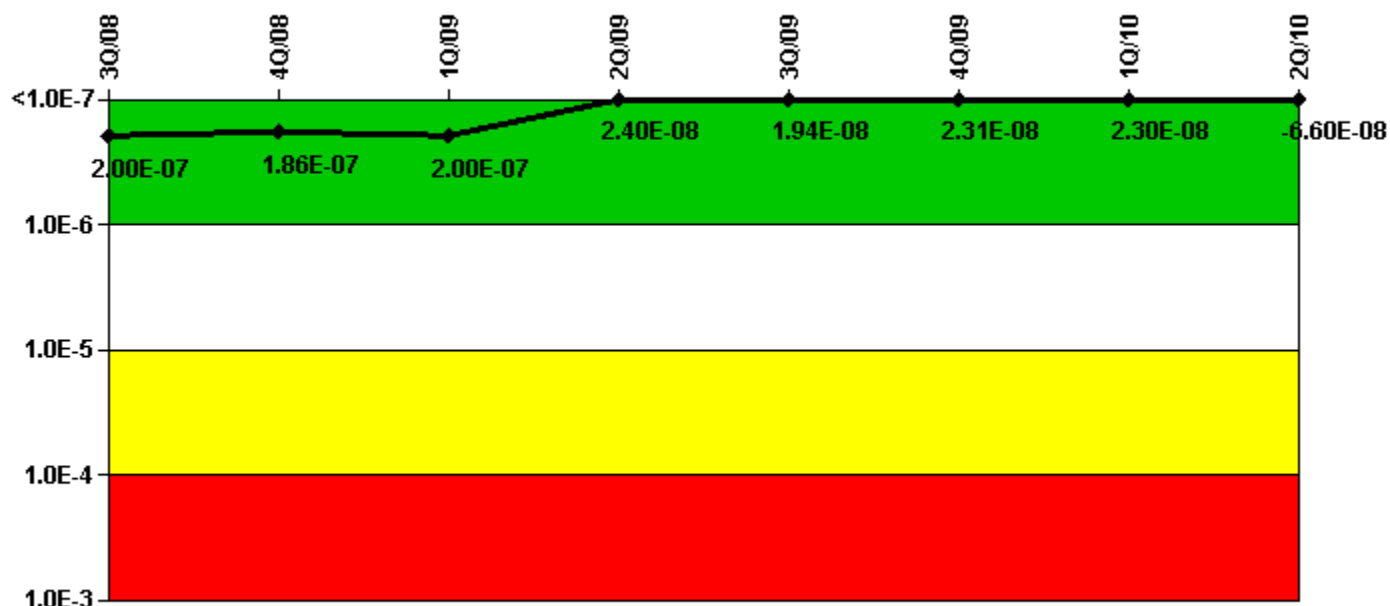
Thresholds: White > 5.0

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	2	0	0	0	0	1	0
Indicator value	3	3	3	2	2	0	1	1

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	4.83E-08	3.60E-08	4.38E-08	3.09E-08	2.60E-08	2.90E-08	2.82E-08	-2.35E-08
URI (ΔCDF)	1.53E-07	1.50E-07	1.54E-07	-7.19E-09	-6.60E-09	-5.90E-09	-5.21E-09	-4.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.00E-07	1.86E-07	2.00E-07	2.40E-08	1.94E-08	2.31E-08	2.30E-08	-6.60E-08

Licensee Comments:

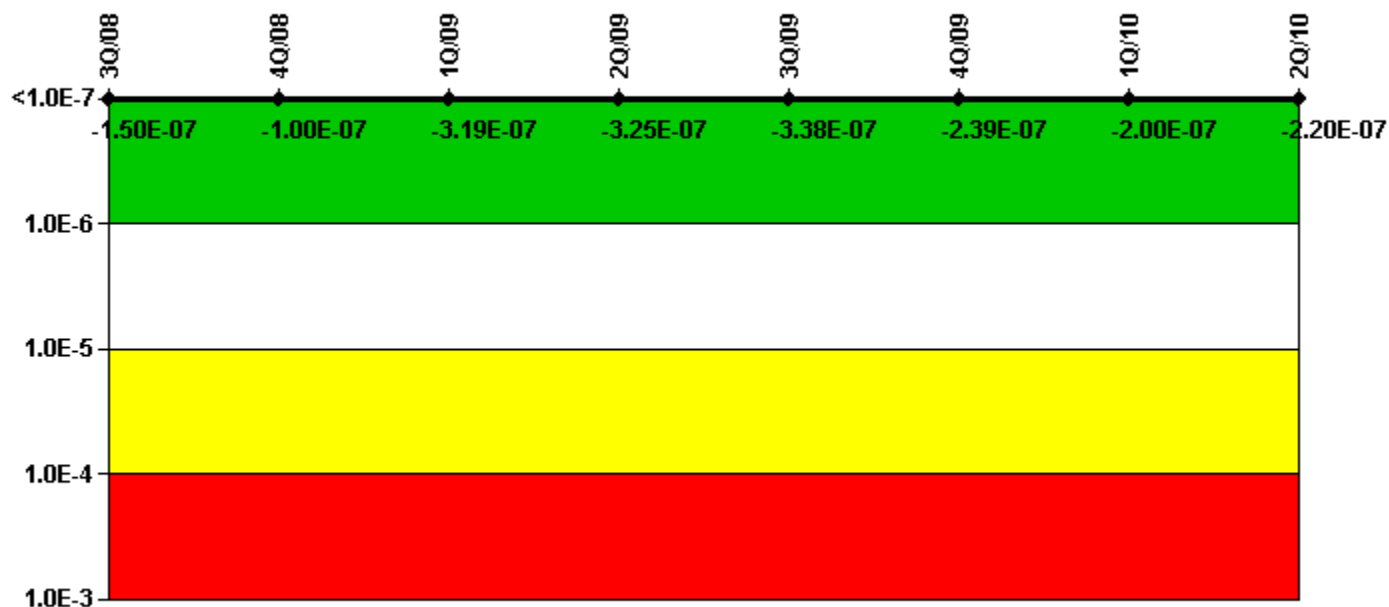
2Q/10: This submittal includes revision to June 2008 planned unavailability hours for Trains "K-6AG" and "K-6BG". The change was a small increase in hours and had no impact on the indicator color. (Reference CR-PLP-2010-01612).

2Q/09: Emergency AC Power results improved due to June 2006 failure rolling off of 36-month calculation.

3Q/08: Reevaluation of September 2007 Emergency Diesel Generator 1-1 (K-6AG) fuel oil leak concluded event was not an MSPI Failure. This submittal includes revision of the 9/17/2007 event to No MSPI Failure. The change had a small impact on the MSPI result and no impact on the indicator color. (Reference CR-PLP-2007-04078).
Reassessment of February 2008 Emergency Diesel Generator 1-2 (K-6BG) cylinder spring lock condition concluded the event was a Maintenance Rule Failure. This submittal includes addition of the 2/19/2008 event to CDE for EPIX reporting with the event classified No MSPI Failure due to mission time differences. The change had no impact on the indicator color. (Reference CR-PLP-2008-00822).

2Q/08: 7/20/2010 This submittal includes revision to June 2008 planned unavailability hours for Trains "K-6AG" and "K-6BG". The change was a small increase in hours and had no impact on the indicator color. (Reference CR-PLP-2010-01612). Reevaluation of September 2007 MSPI Failure for EDG 1-1 fuel oil leak is being reviewed. (Reference CR-PLP-2007-04078).

Mitigating Systems Performance Index, High Pressure Injection System



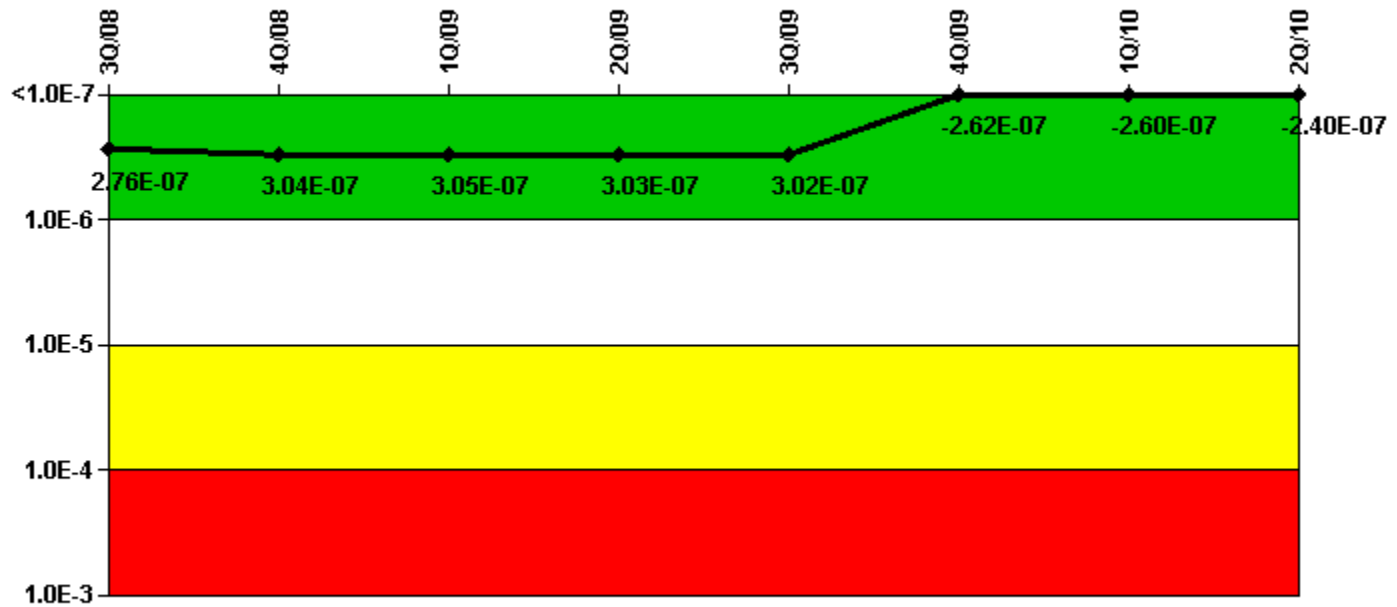
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.20E-07	1.70E-07	-4.90E-08	-5.50E-08	-6.80E-08	3.10E-08	6.09E-08	4.11E-08
URI (Δ CDF)	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.65E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-07	-1.00E-07	-3.19E-07	-3.25E-07	-3.38E-07	-2.39E-07	-2.00E-07	-2.20E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



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

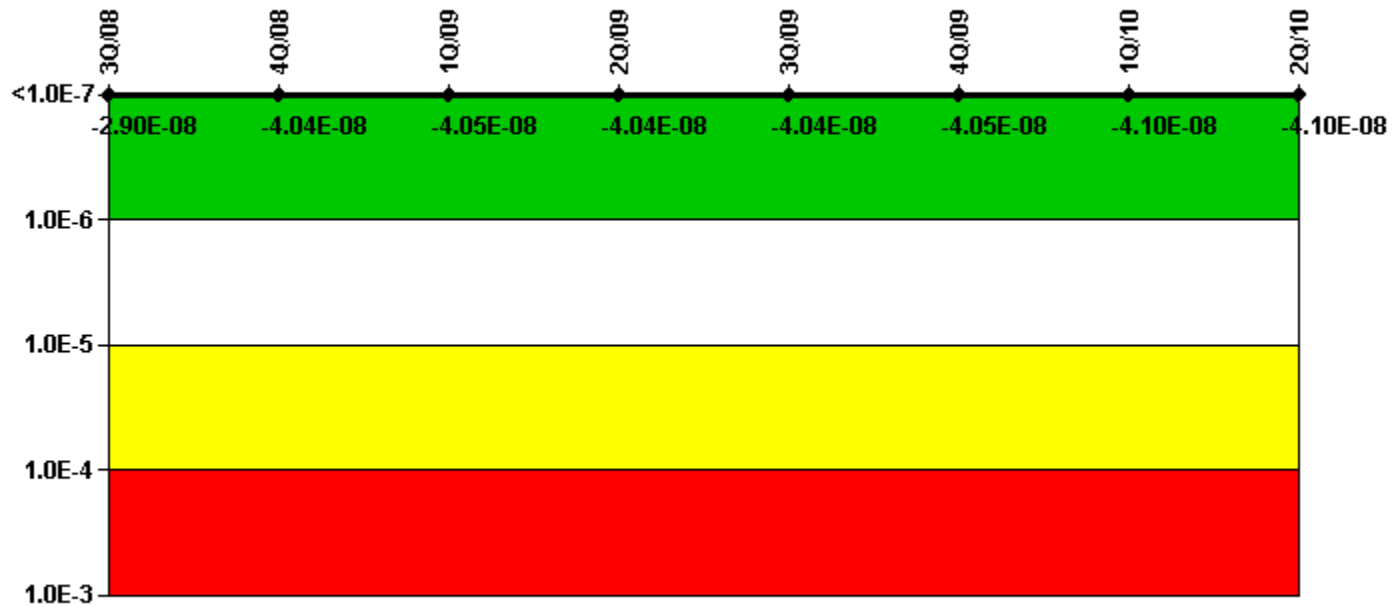
Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	-3.60E-09	2.40E-08	2.50E-08	2.30E-08	2.20E-08	1.80E-08	2.03E-08	3.36E-08
URI (Δ CDF)	2.80E-07	2.80E-07	2.80E-07	2.80E-07	2.80E-07	-2.80E-07	-2.77E-07	-2.77E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.76E-07	3.04E-07	3.05E-07	3.03E-07	3.02E-07	-2.62E-07	-2.60E-07	-2.40E-07

Licensee Comments:

2Q/10: Evaluation is pending on Auxiliary Feedwater Pump P-8A motor degradation identified in June 2010. (Reference CR-PLP-2010-02367)

Mitigating Systems Performance Index, Residual Heat Removal System



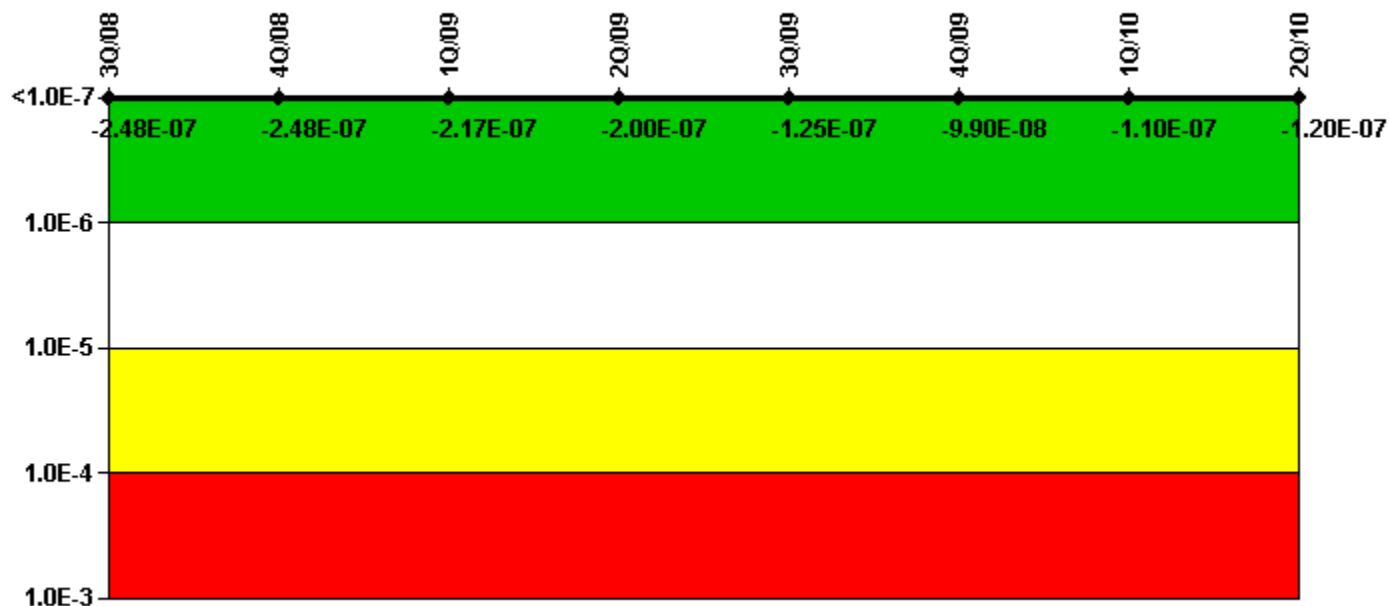
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	1.10E-08	-3.90E-10	-4.80E-10	-3.60E-10	-4.10E-10	-4.80E-10	-3.39E-10	-3.02E-10
URI (Δ CDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-08	-4.04E-08	-4.05E-08	-4.04E-08	-4.04E-08	-4.05E-08	-4.10E-08	-4.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



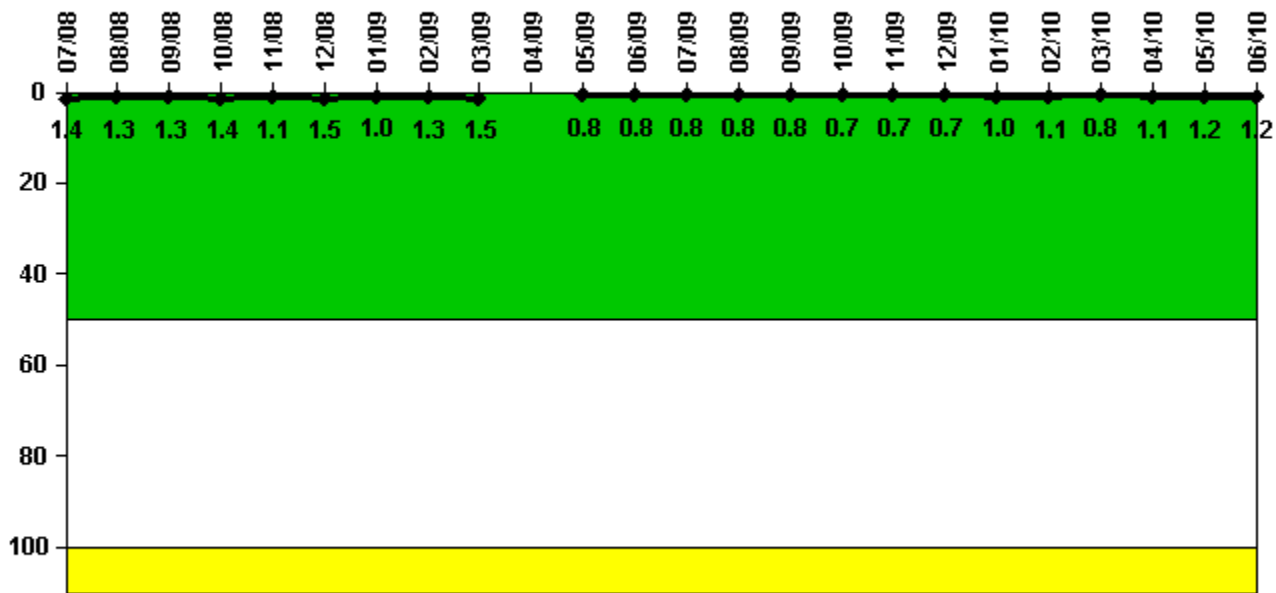
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	-2.80E-08	-2.80E-08	1.30E-08	3.00E-08	5.50E-08	8.10E-08	7.05E-08	6.84E-08
URI (Δ CDF)	-2.20E-07	-2.20E-07	-2.30E-07	-2.30E-07	-1.80E-07	-1.80E-07	-1.84E-07	-1.87E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.48E-07	-2.48E-07	-2.17E-07	-2.00E-07	-1.25E-07	-9.90E-08	-1.10E-07	-1.20E-07

Licensee Comments: none

Reactor Coolant System Activity



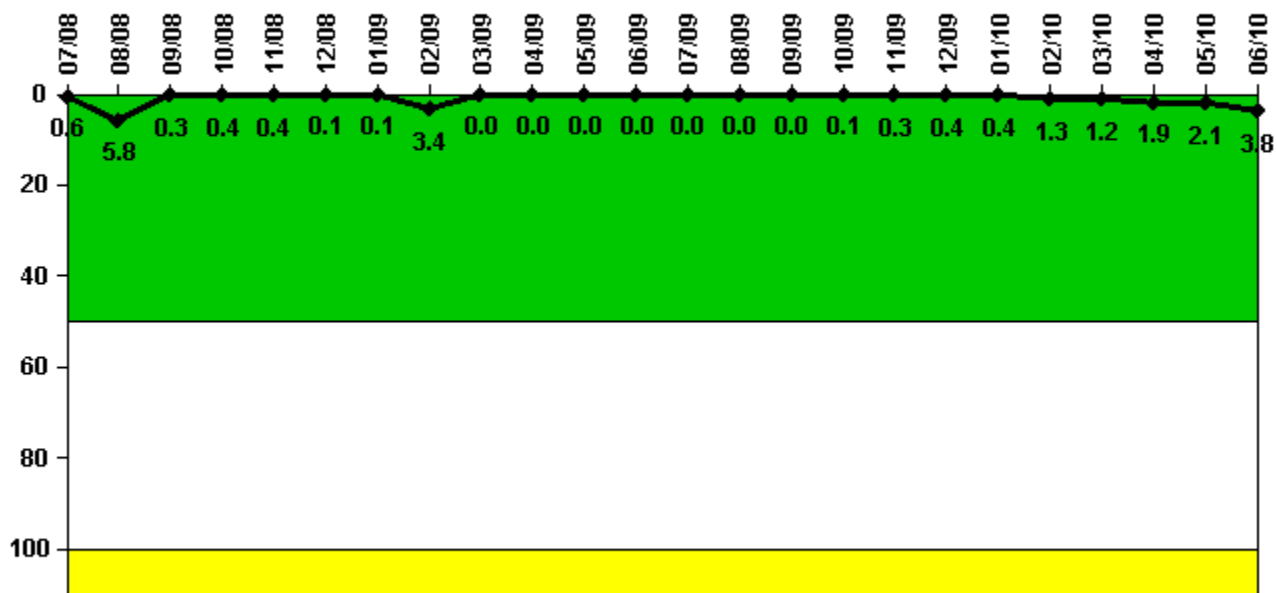
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum activity	0.014000	0.013200	0.013200	0.013700	0.010800	0.014600	0.010400	0.013200	0.014800	N/A	0.007570	0.007680
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.4	1.3	1.3	1.4	1.1	1.5	1.0	1.3	1.5	N/A	0.8	0.8
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	0.008310	0.008260	0.008190	0.007360	0.007120	0.007170	0.010300	0.011000	0.007520	0.010600	0.011600	0.012100
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.8	0.8	0.8	0.7	0.7	0.7	1.0	1.1	0.8	1.1	1.2	1.2

Licensee Comments: none

Reactor Coolant System Leakage



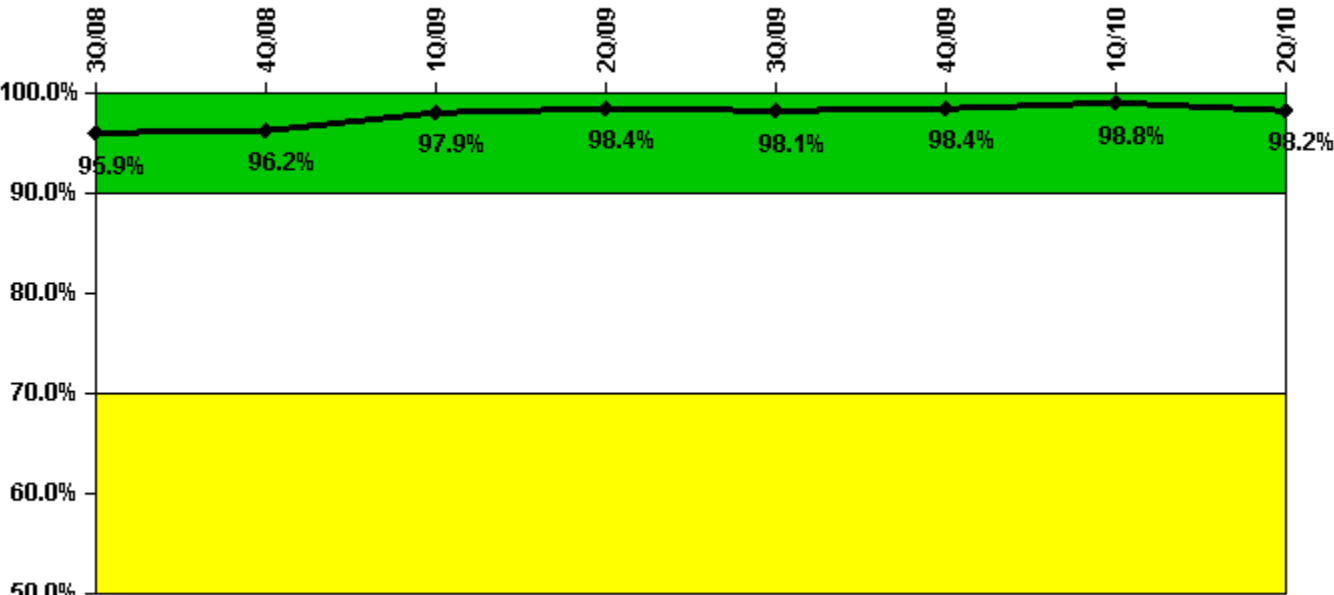
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum leakage	0.055	0.576	0.029	0.040	0.040	0.007	0.013	0.341	0.001	0	0.003	0.003
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.6	5.8	0.3	0.4	0.4	0.1	0.1	3.4	0	0	0	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	0.003	0.004	0.003	0.013	0.026	0.037	0.037	0.132	0.119	0.185	0.211	0.383
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0.1	0.3	0.4	0.4	1.3	1.2	1.9	2.1	3.8

Licensee Comments: none

Drill/Exercise Performance



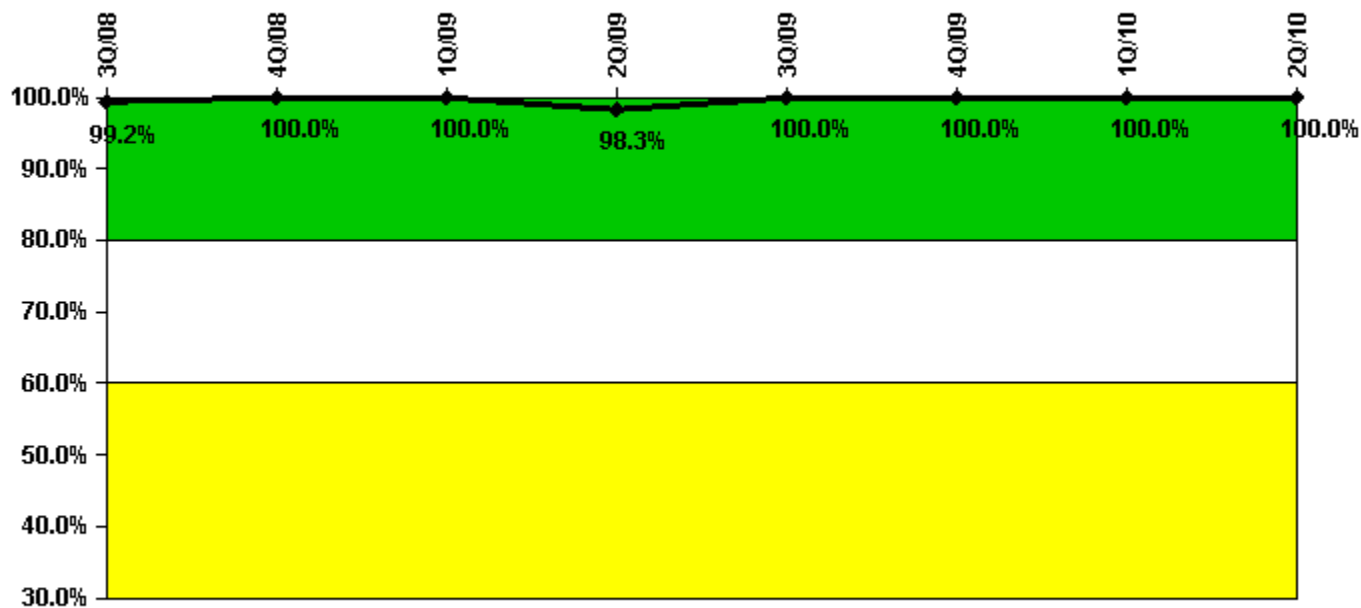
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful opportunities	44.0	45.0	65.0	12.0	23.0	22.0	89.0	26.0
Total opportunities	44.0	46.0	66.0	12.0	24.0	22.0	90.0	28.0
Indicator value	95.9%	96.2%	97.9%	98.4%	98.1%	98.4%	98.8%	98.2%

Licensee Comments: none

ERO Drill Participation



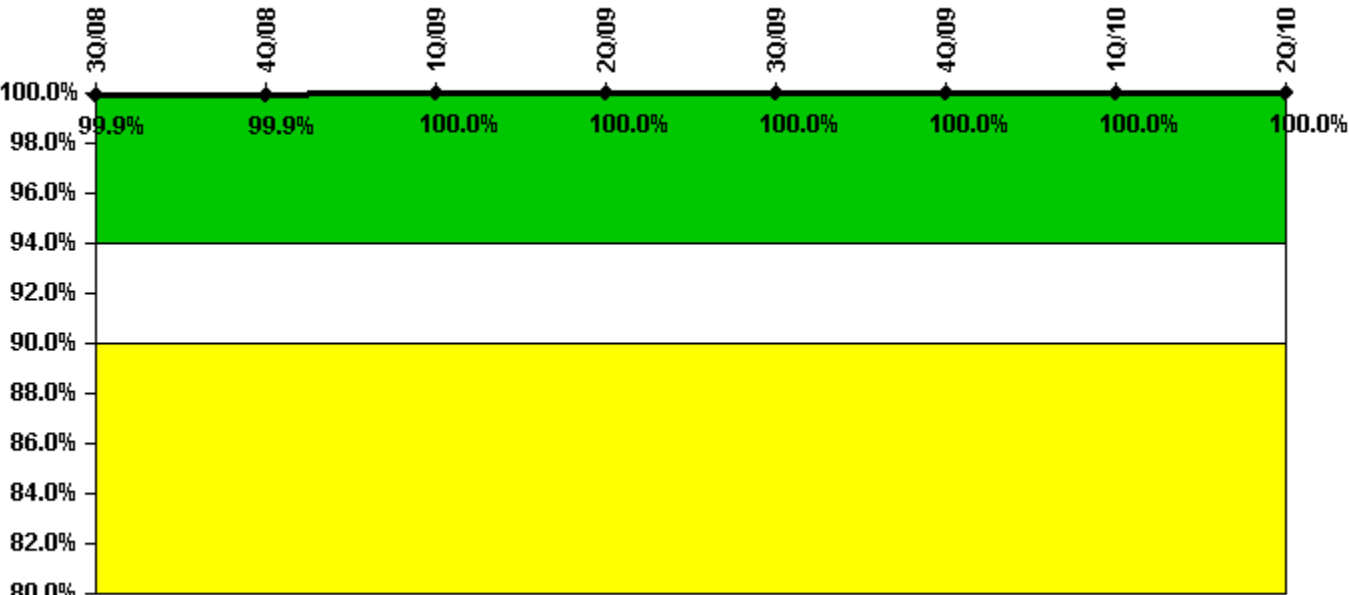
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Participating Key personnel	119.0	118.0	120.0	113.0	122.0	123.0	75.0	80.0
Total Key personnel	120.0	118.0	120.0	115.0	122.0	123.0	75.0	80.0
Indicator value	99.2%	100.0%	100.0%	98.3%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



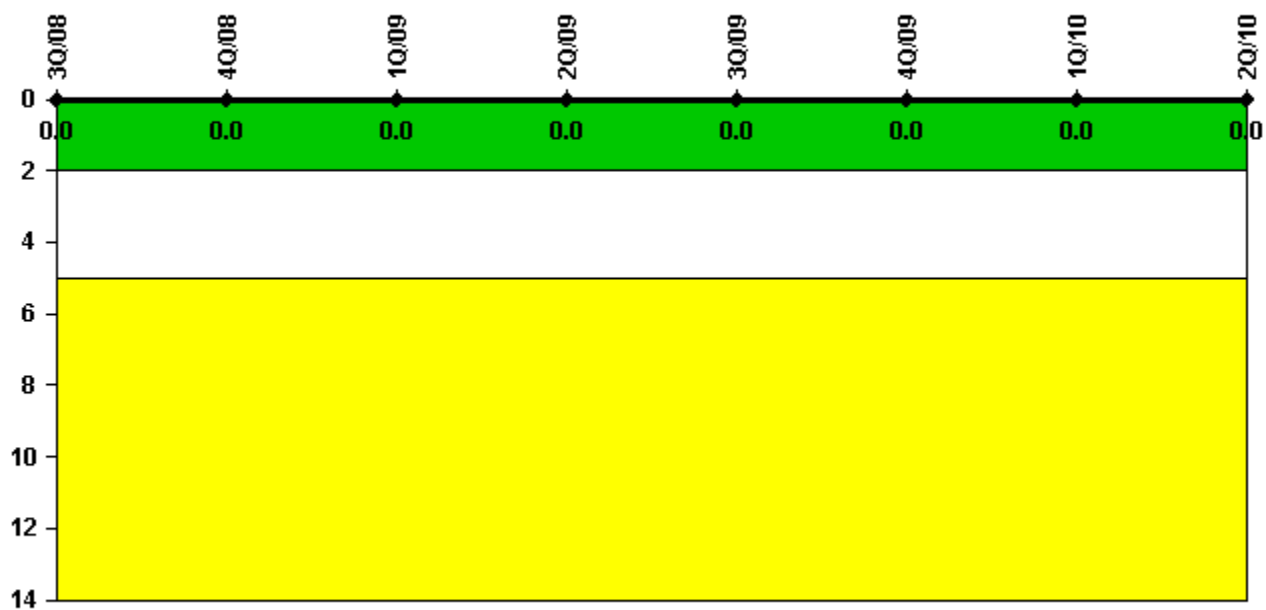
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful siren-tests	183	183	183	183	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
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



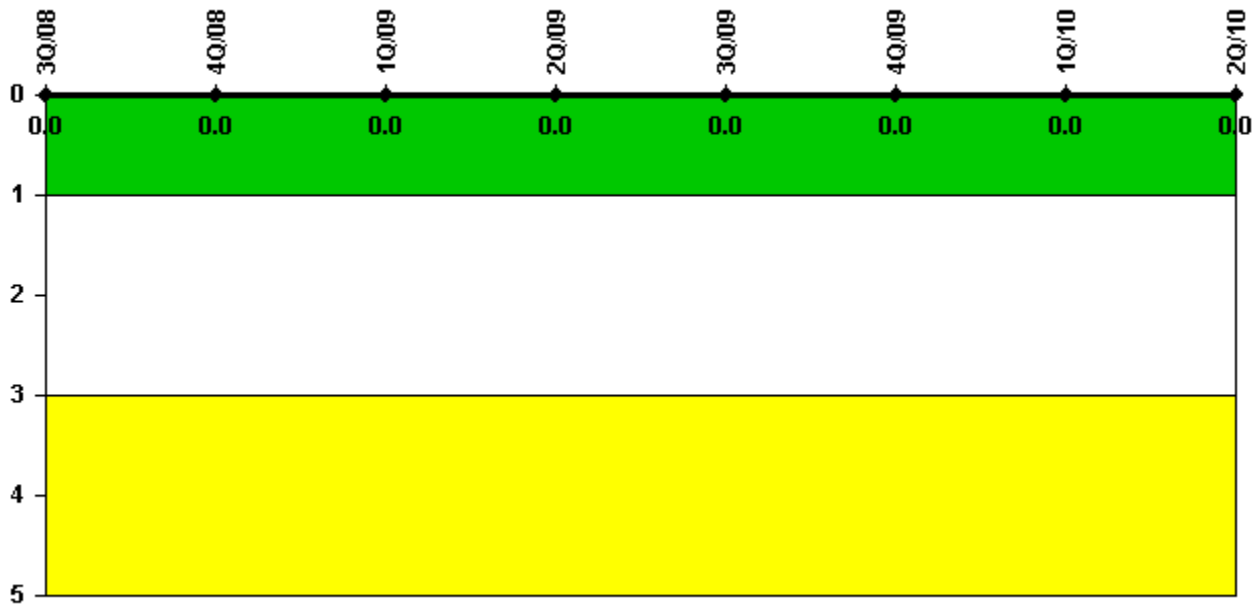
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

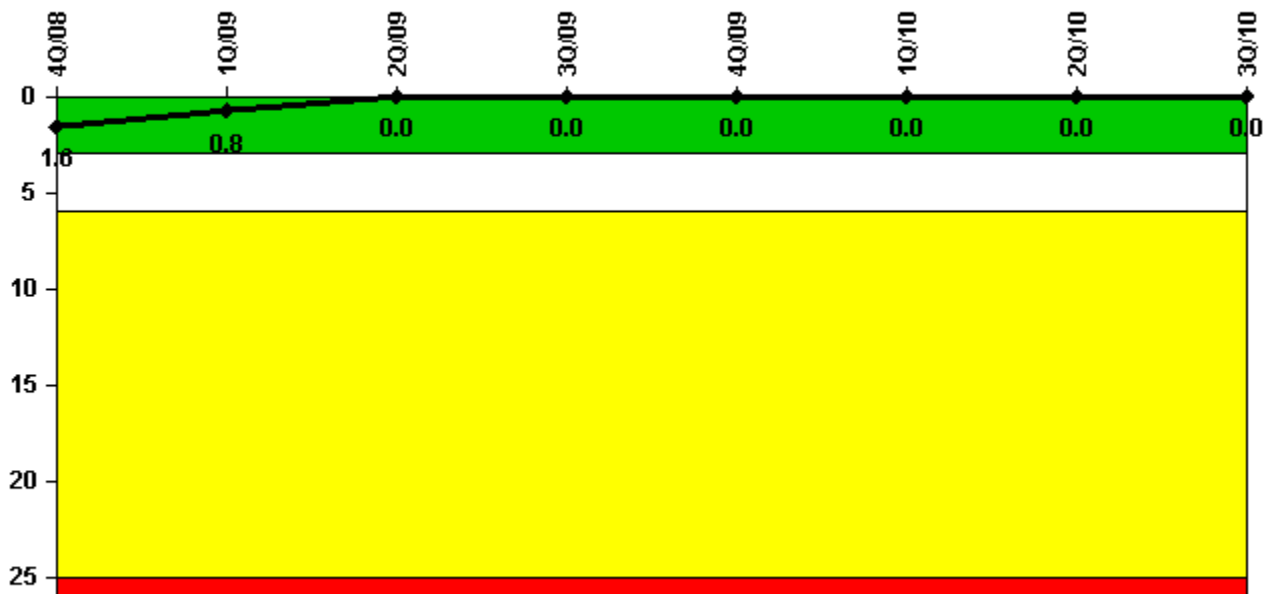
[Security](#) information not publicly available.

Palisades

3Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



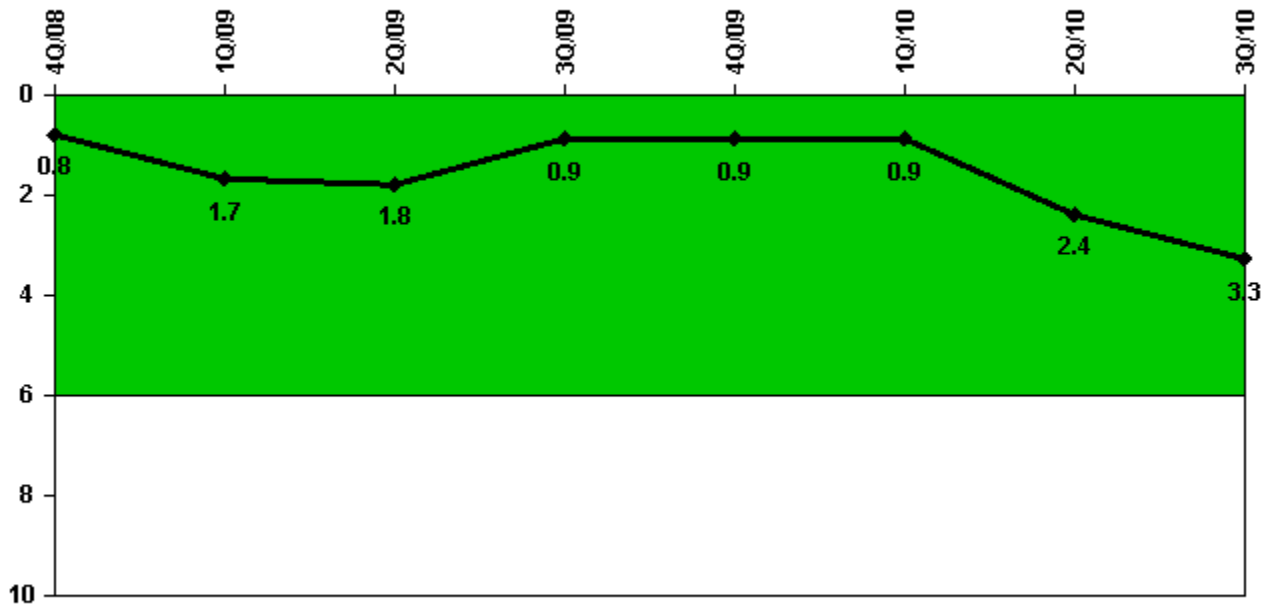
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	1853.5	1522.5	2208.0	2209.0	2159.0	2031.9	2167.6
Indicator value	1.6	0.8	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



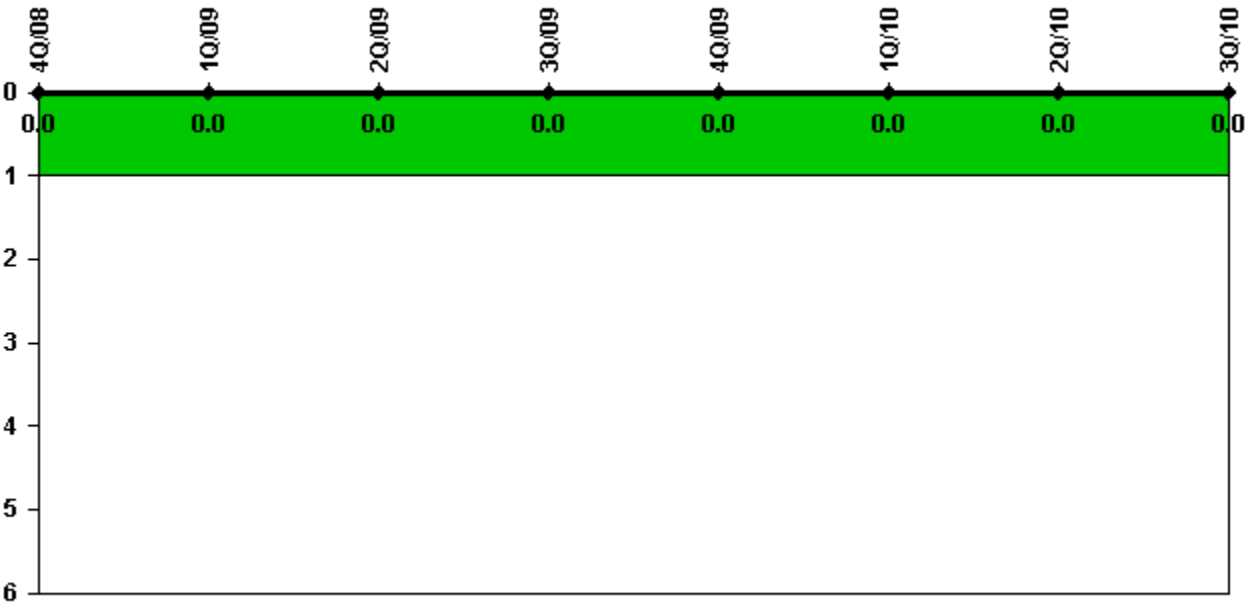
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned power changes	0	1.0	0	0	0	1.0	2.0	1.0
Critical hours	2209.0	1853.5	1522.5	2208.0	2209.0	2159.0	2031.9	2167.6
Indicator value	0.8	1.7	1.8	0.9	0.9	0.9	2.4	3.3

Licensee Comments: none

Unplanned Scrams with Complications



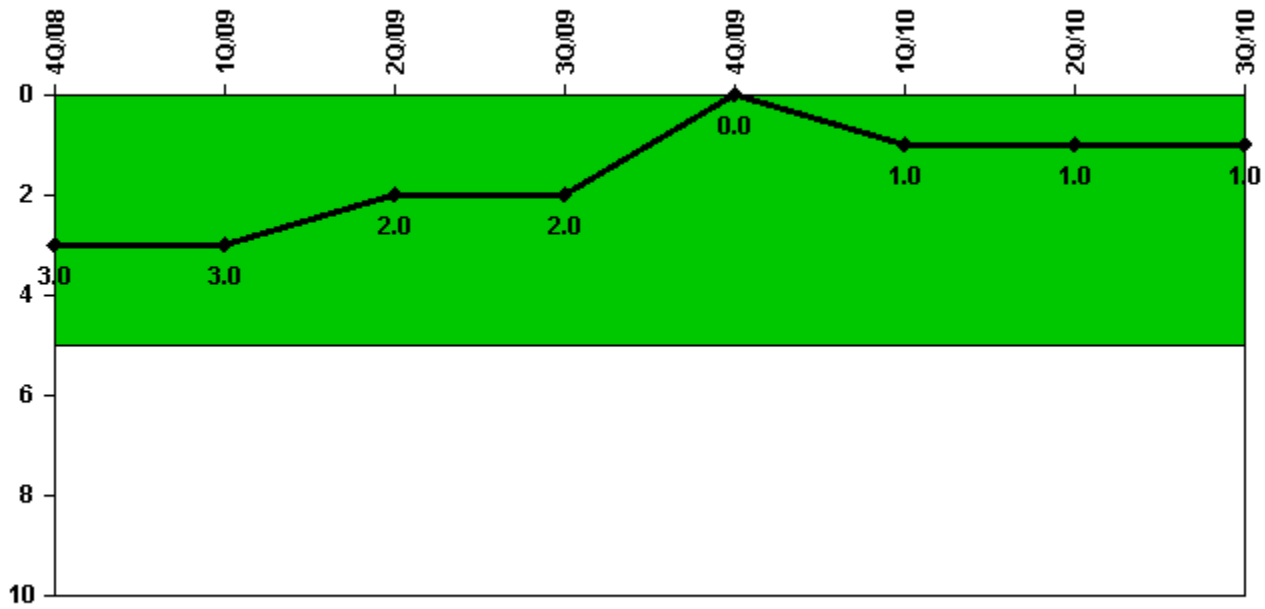
Thresholds: White > 1.0

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)



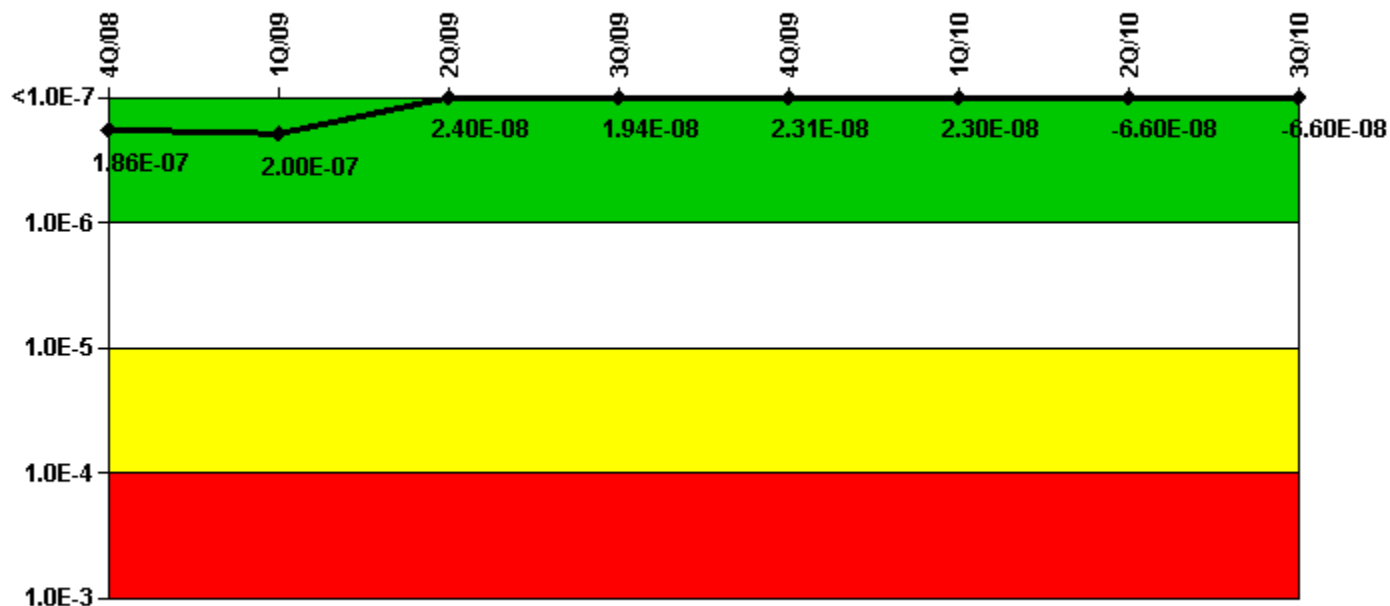
Thresholds: White > 5.0

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	2	0	0	0	0	1	0	0
Indicator value	3	3	2	2	0	1	1	1

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



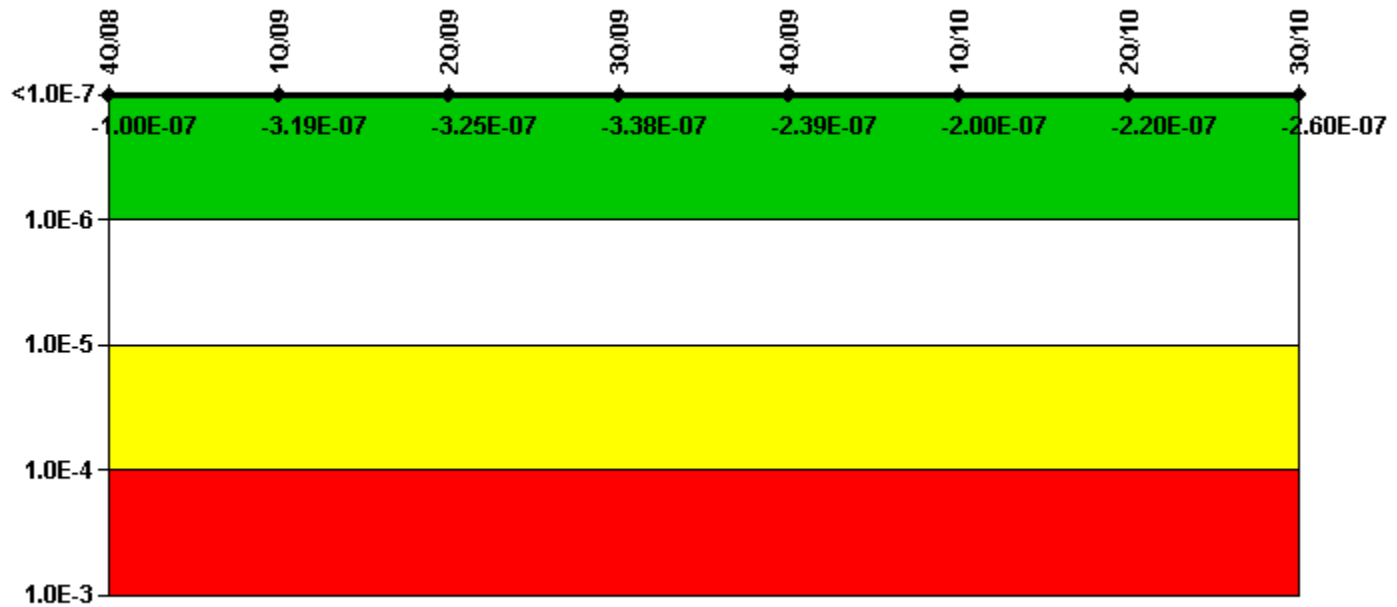
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	3.60E-08	4.38E-08	3.09E-08	2.60E-08	2.90E-08	2.82E-08	-2.35E-08	-2.36E-08
URI (ΔCDF)	1.50E-07	1.54E-07	-7.19E-09	-6.60E-09	-5.90E-09	-5.21E-09	-4.25E-08	-4.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.86E-07	2.00E-07	2.40E-08	1.94E-08	2.31E-08	2.30E-08	-6.60E-08	-6.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



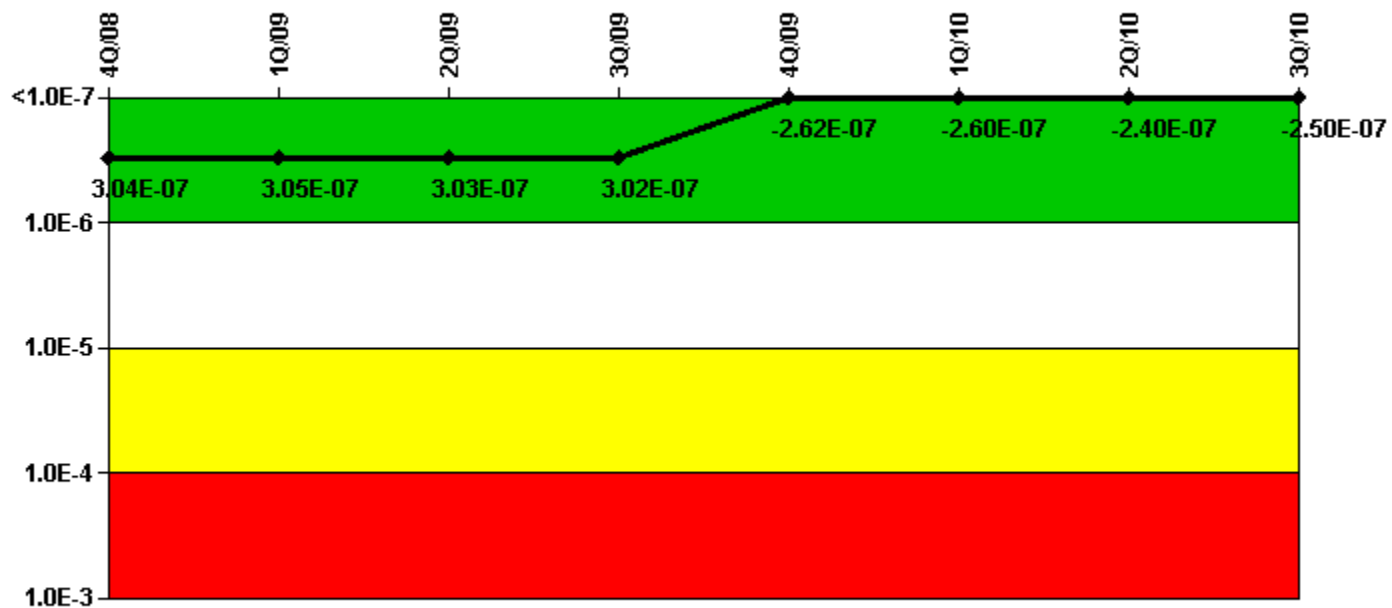
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	1.70E-07	-4.90E-08	-5.50E-08	-6.80E-08	3.10E-08	6.09E-08	4.11E-08	8.73E-09
URI (Δ CDF)	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.65E-07	-2.65E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.00E-07	-3.19E-07	-3.25E-07	-3.38E-07	-2.39E-07	-2.00E-07	-2.20E-07	-2.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



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

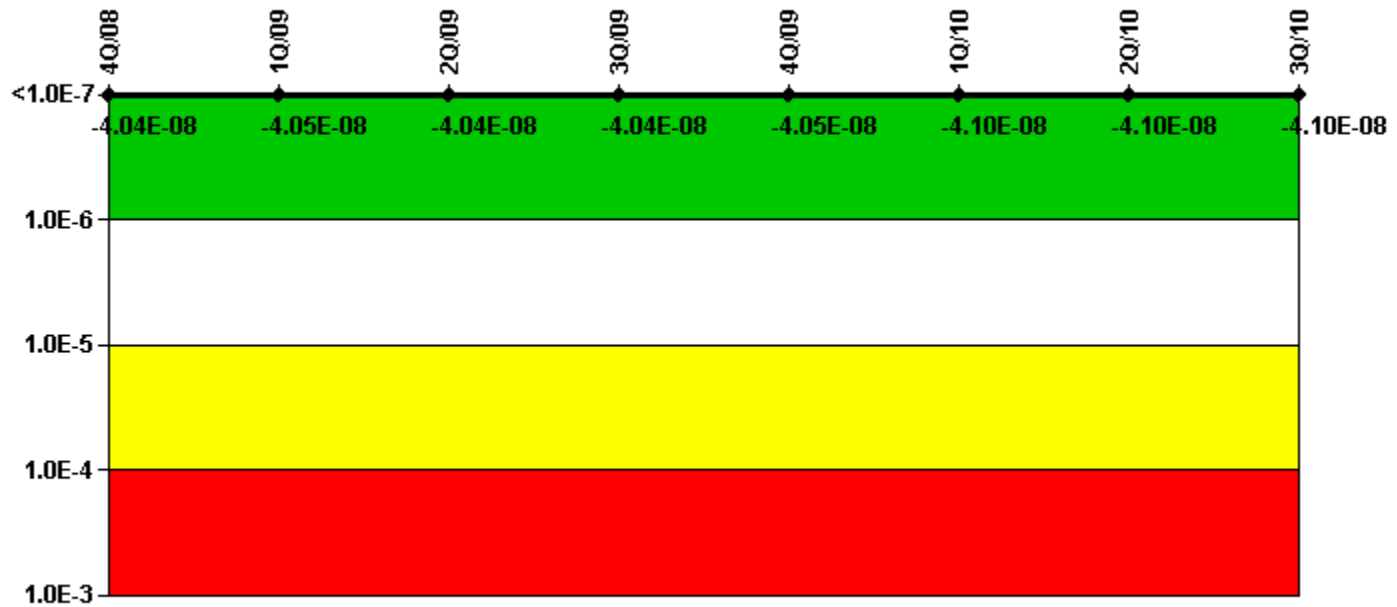
Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	2.40E-08	2.50E-08	2.30E-08	2.20E-08	1.80E-08	2.03E-08	3.36E-08	3.15E-08
URI (Δ CDF)	2.80E-07	2.80E-07	2.80E-07	2.80E-07	-2.80E-07	-2.77E-07	-2.77E-07	-2.77E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.04E-07	3.05E-07	3.03E-07	3.02E-07	-2.62E-07	-2.60E-07	-2.40E-07	-2.50E-07

Licensee Comments:

3Q/10: Evaluation of Auxiliary Feedwater Pump P-8A motor degradation event from June 2010 concluded No MSPI Failure occurred. (Reference CR-PLP-2010-02367)

Mitigating Systems Performance Index, Residual Heat Removal System



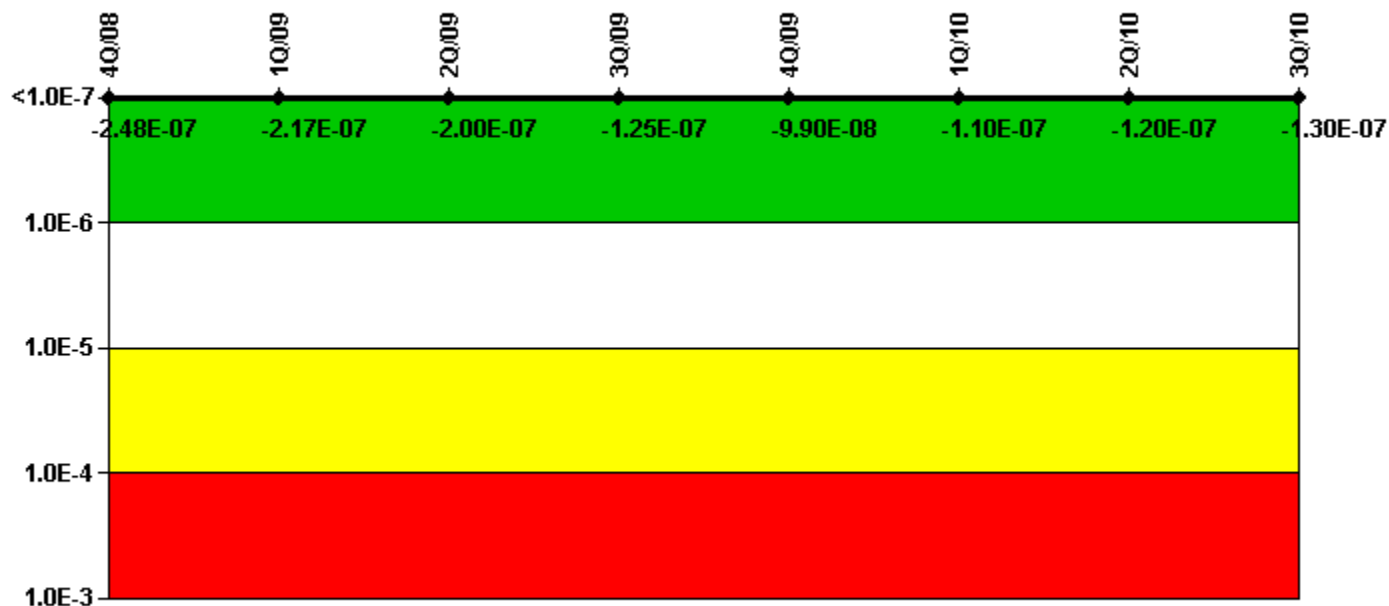
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-3.90E-10	-4.80E-10	-3.60E-10	-4.10E-10	-4.80E-10	-3.39E-10	-3.02E-10	-3.51E-10
URI (Δ CDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.04E-08	-4.05E-08	-4.04E-08	-4.04E-08	-4.05E-08	-4.10E-08	-4.10E-08	-4.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



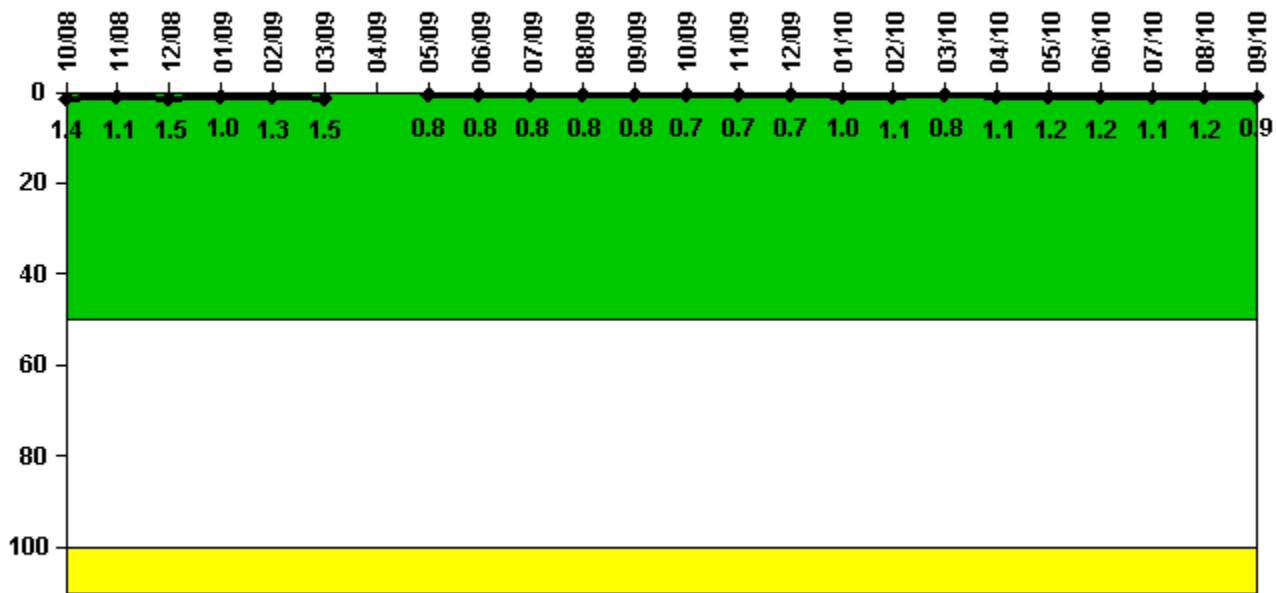
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	-2.80E-08	1.30E-08	3.00E-08	5.50E-08	8.10E-08	7.05E-08	6.84E-08	5.75E-08
URI (ΔCDF)	-2.20E-07	-2.30E-07	-2.30E-07	-1.80E-07	-1.80E-07	-1.84E-07	-1.87E-07	-1.87E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.48E-07	-2.17E-07	-2.00E-07	-1.25E-07	-9.90E-08	-1.10E-07	-1.20E-07	-1.30E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

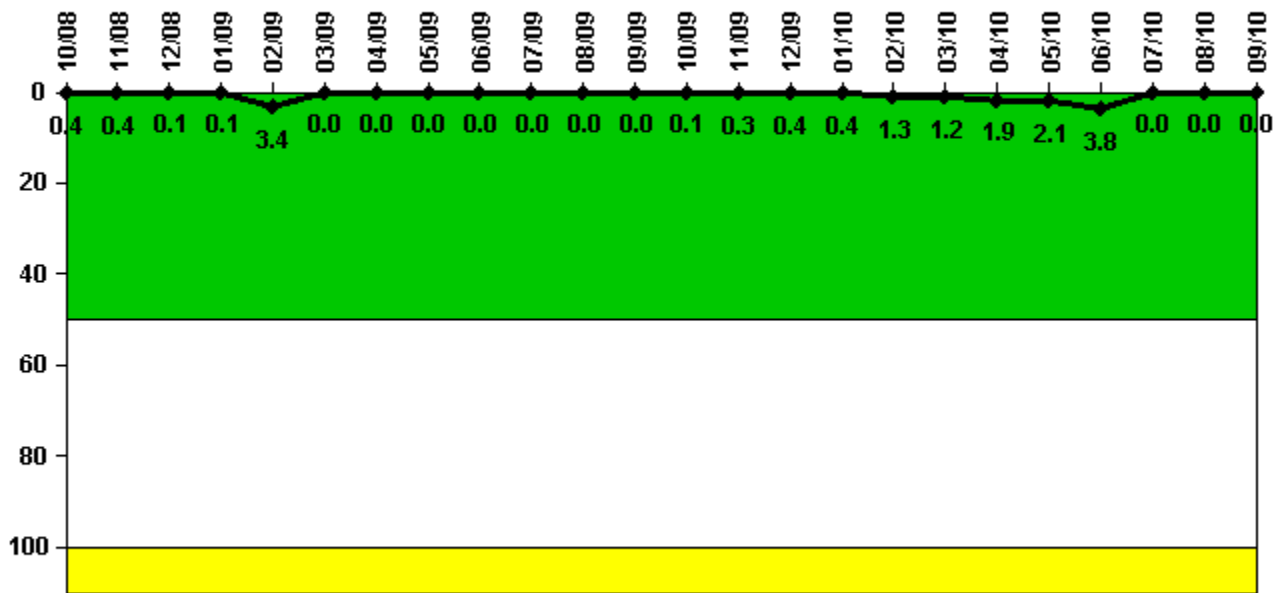
Notes

Reactor Coolant System Activity	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum activity	0.013700	0.010800	0.014600	0.010400	0.013200	0.014800	N/A	0.007570	0.007680	0.008310	0.008260	0.008190
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.4	1.1	1.5	1.0	1.3	1.5	N/A	0.8	0.8	0.8	0.8	0.8

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	0.007360	0.007120	0.007170	0.010300	0.011000	0.007520	0.010600	0.011600	0.012100	0.010500	0.012300	0.009200
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.7	0.7	0.7	1.0	1.1	0.8	1.1	1.2	1.2	1.1	1.2	0.9

Licensee Comments: none

Reactor Coolant System Leakage



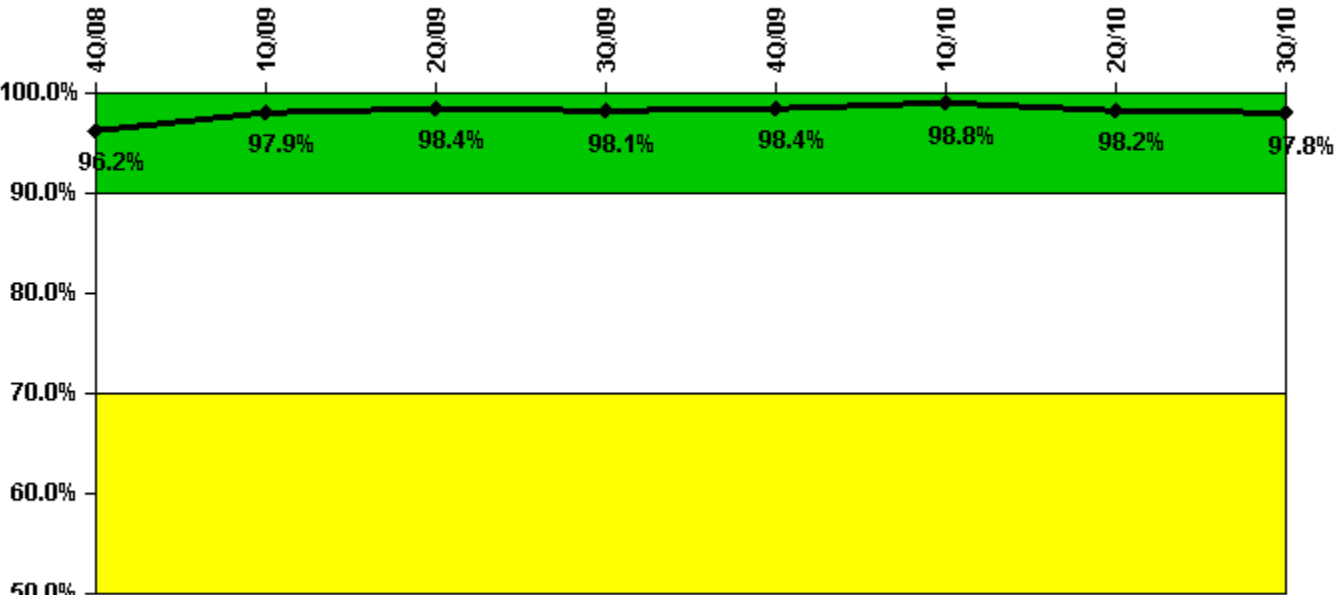
Thresholds: White > 50.0 Yellow > 100.0

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	0.040	0.040	0.007	0.013	0.341	0.001	0	0.003	0.003	0.003	0.004	0.003
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.4	0.4	0.1	0.1	3.4	0	0	0	0	0	0	0
Reactor Coolant System Leakage	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum leakage	0.013	0.026	0.037	0.037	0.132	0.119	0.185	0.211	0.383	0.003	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	0.3	0.4	0.4	1.3	1.2	1.9	2.1	3.8	0	0	0

Licensee Comments: none

Drill/Exercise Performance



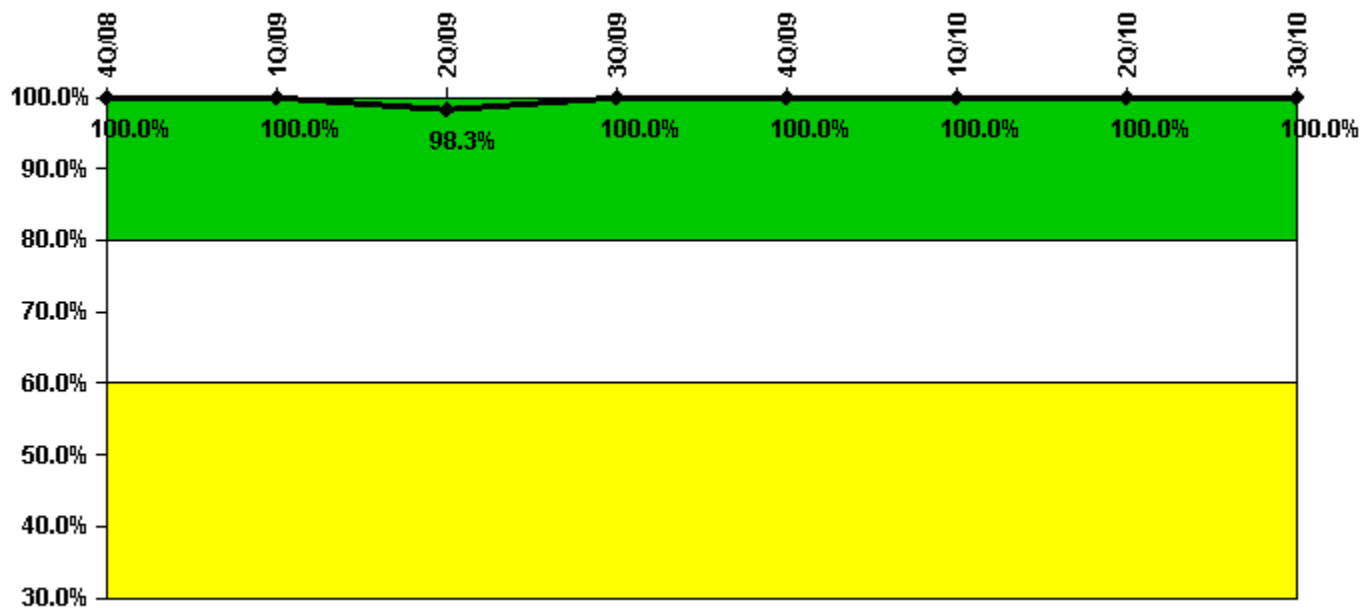
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful opportunities	45.0	65.0	12.0	23.0	22.0	89.0	26.0	23.0
Total opportunities	46.0	66.0	12.0	24.0	22.0	90.0	28.0	24.0
Indicator value	96.2%	97.9%	98.4%	98.1%	98.4%	98.8%	98.2%	97.8%

Licensee Comments: none

ERO Drill Participation



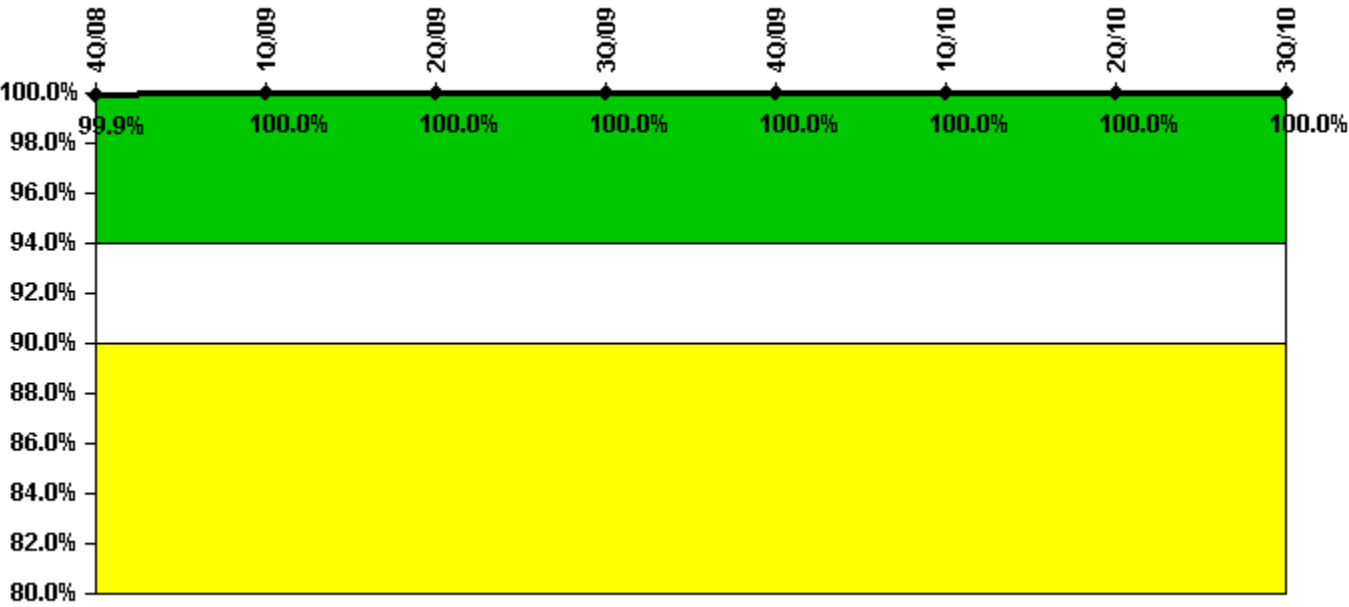
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Participating Key personnel	118.0	120.0	113.0	122.0	123.0	75.0	80.0	82.0
Total Key personnel	118.0	120.0	115.0	122.0	123.0	75.0	80.0	82.0
Indicator value	100.0%	100.0%	98.3%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



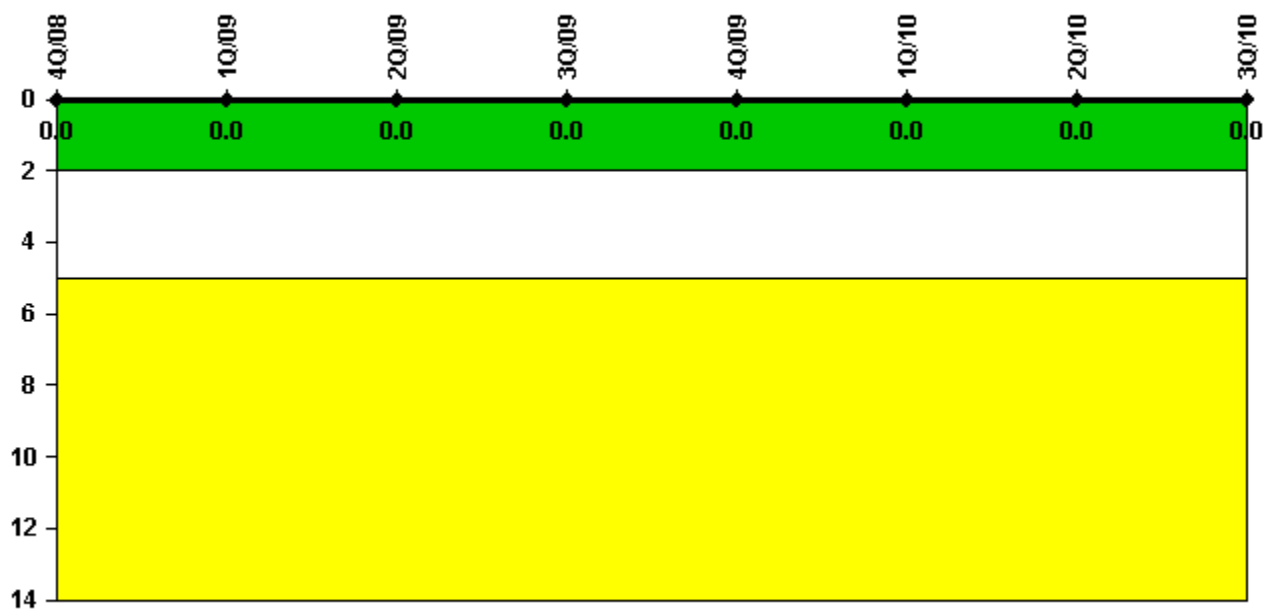
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful siren-tests	183	183	183	183	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



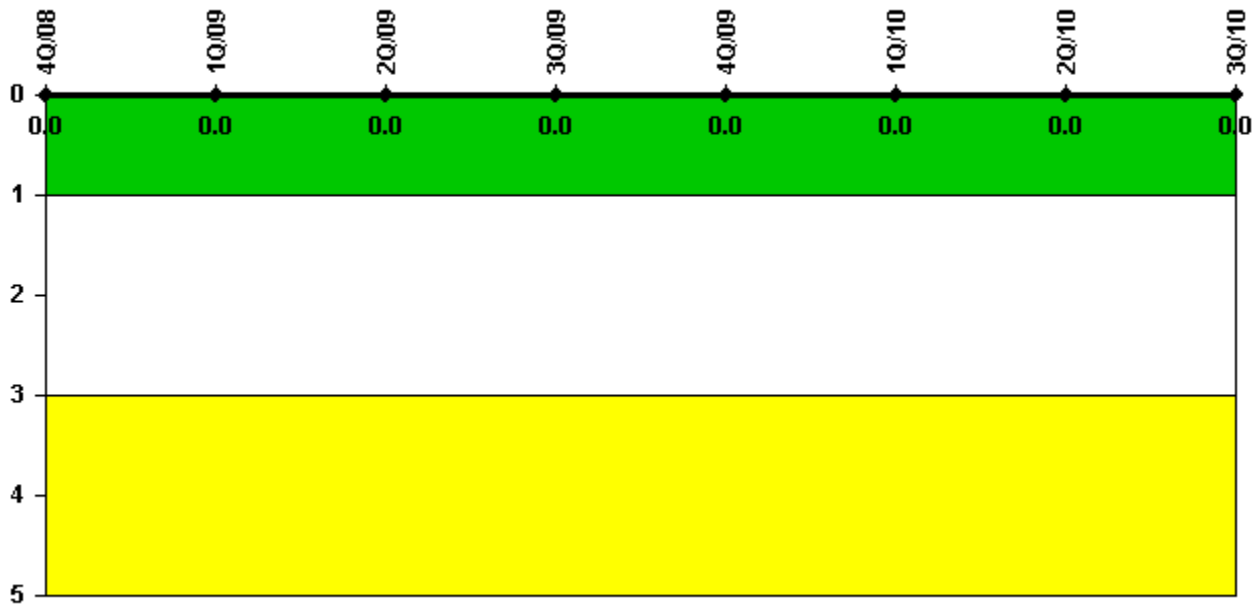
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/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.

Palisades

4Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



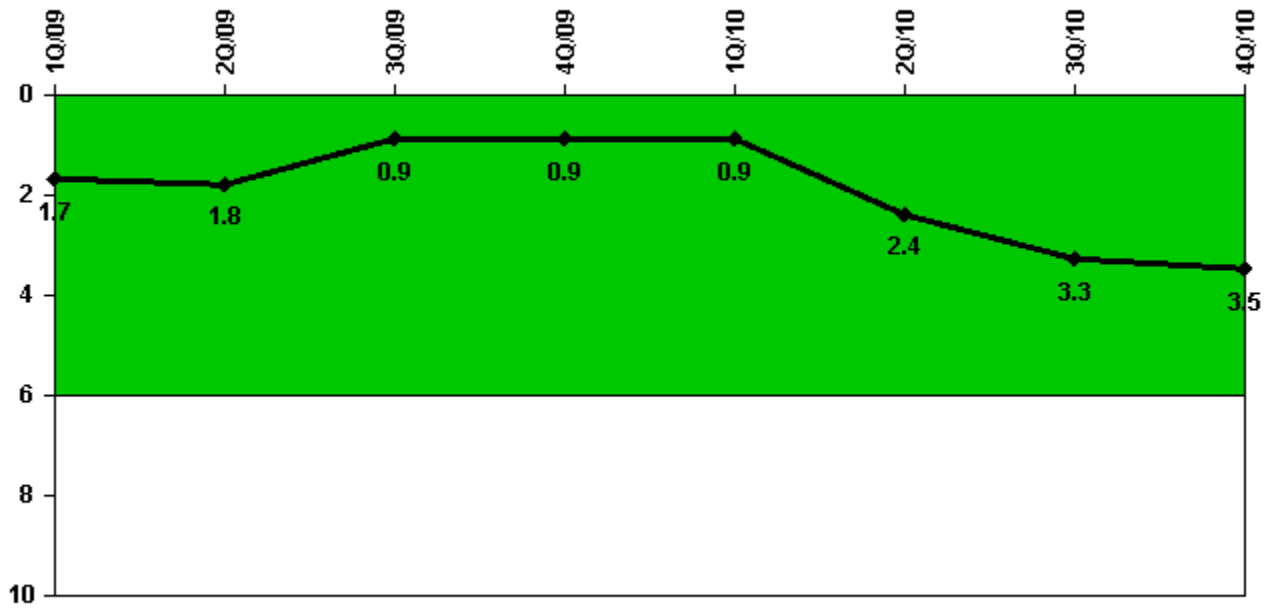
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1853.5	1522.5	2208.0	2209.0	2159.0	2031.9	2167.6	1594.9
Indicator value	0.8	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



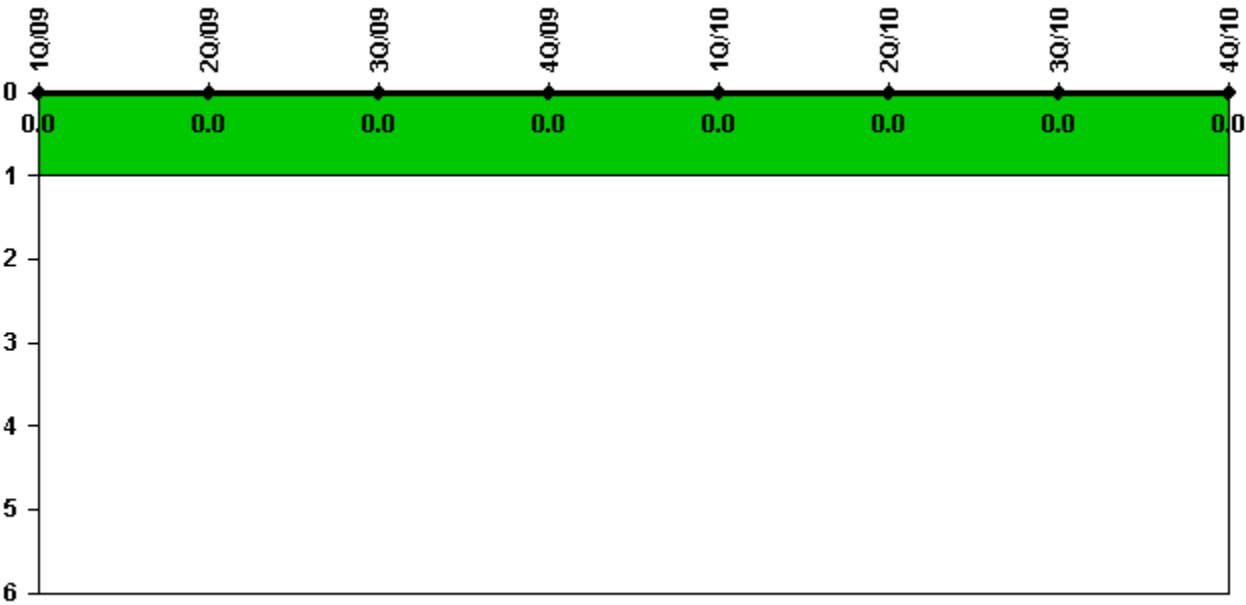
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned power changes	1.0	0	0	0	1.0	2.0	1.0	0
Critical hours	1853.5	1522.5	2208.0	2209.0	2159.0	2031.9	2167.6	1594.9
Indicator value	1.7	1.8	0.9	0.9	0.9	2.4	3.3	3.5

Licensee Comments: none

Unplanned Scrams with Complications



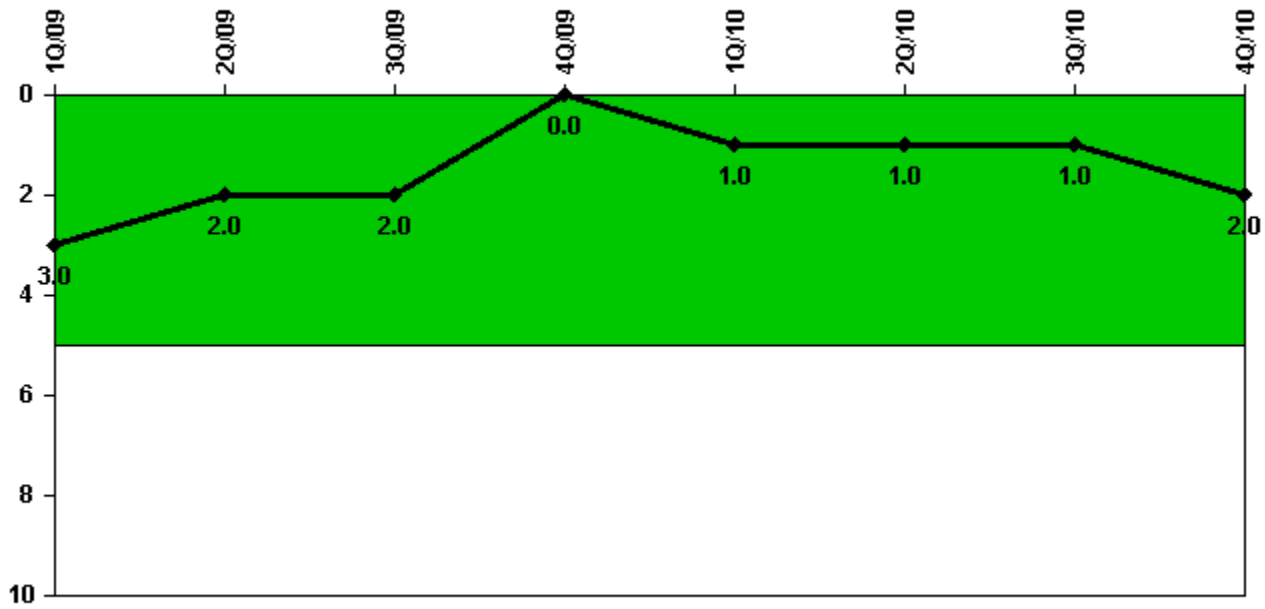
Thresholds: White > 1.0

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)



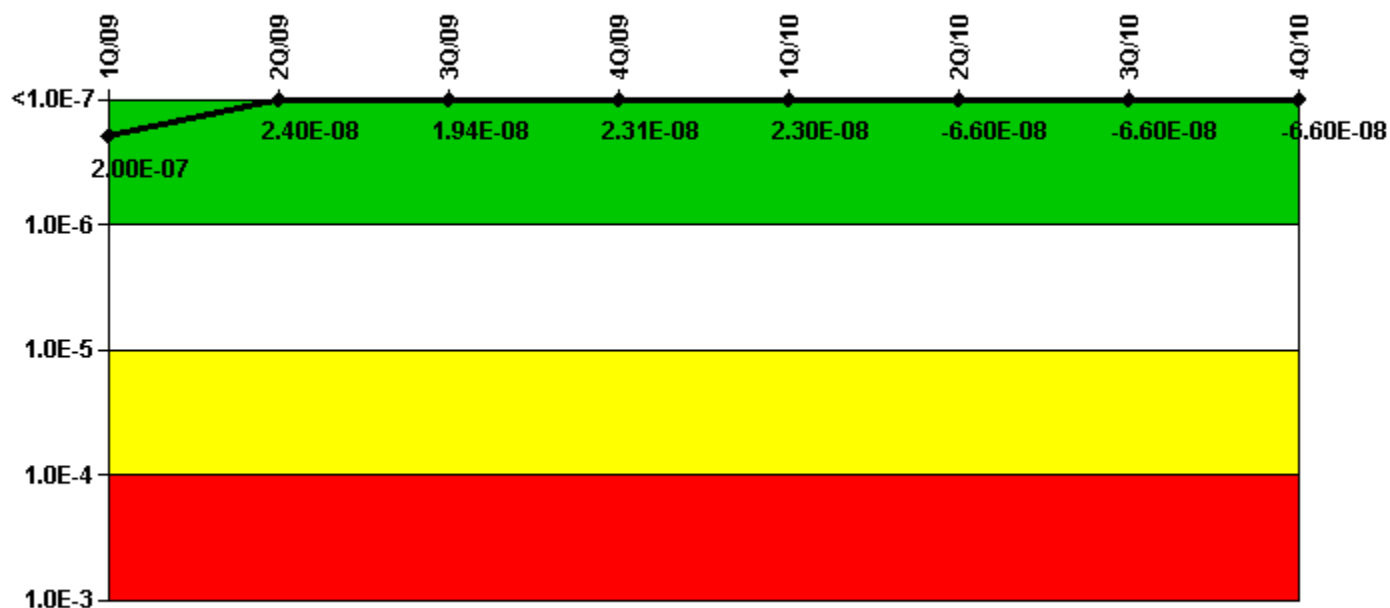
Thresholds: White > 5.0

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	0	0	1	0	0	1
Indicator value	3	2	2	0	1	1	1	2

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

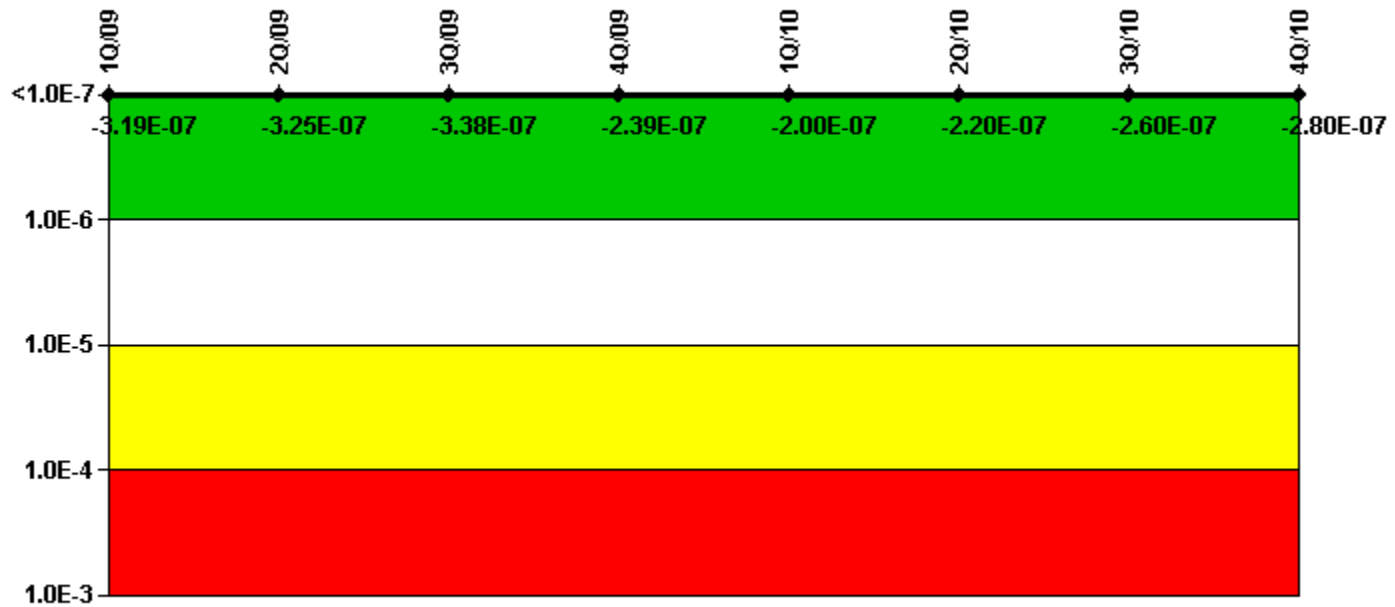
Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	4.38E-08	3.09E-08	2.60E-08	2.90E-08	2.82E-08	-2.35E-08	-2.36E-08	-2.36E-08
URI (Δ CDF)	1.54E-07	-7.19E-09	-6.60E-09	-5.90E-09	-5.21E-09	-4.25E-08	-4.25E-08	-4.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.00E-07	2.40E-08	1.94E-08	2.31E-08	2.30E-08	-6.60E-08	-6.60E-08	-6.60E-08

Licensee Comments:

4Q/10: Evaluation is pending on Emergency Diesel Generator K-6AG turbocharger support cracking identified in November 2010. (Reference CR-PLP-2010-05859)

Mitigating Systems Performance Index, High Pressure Injection System



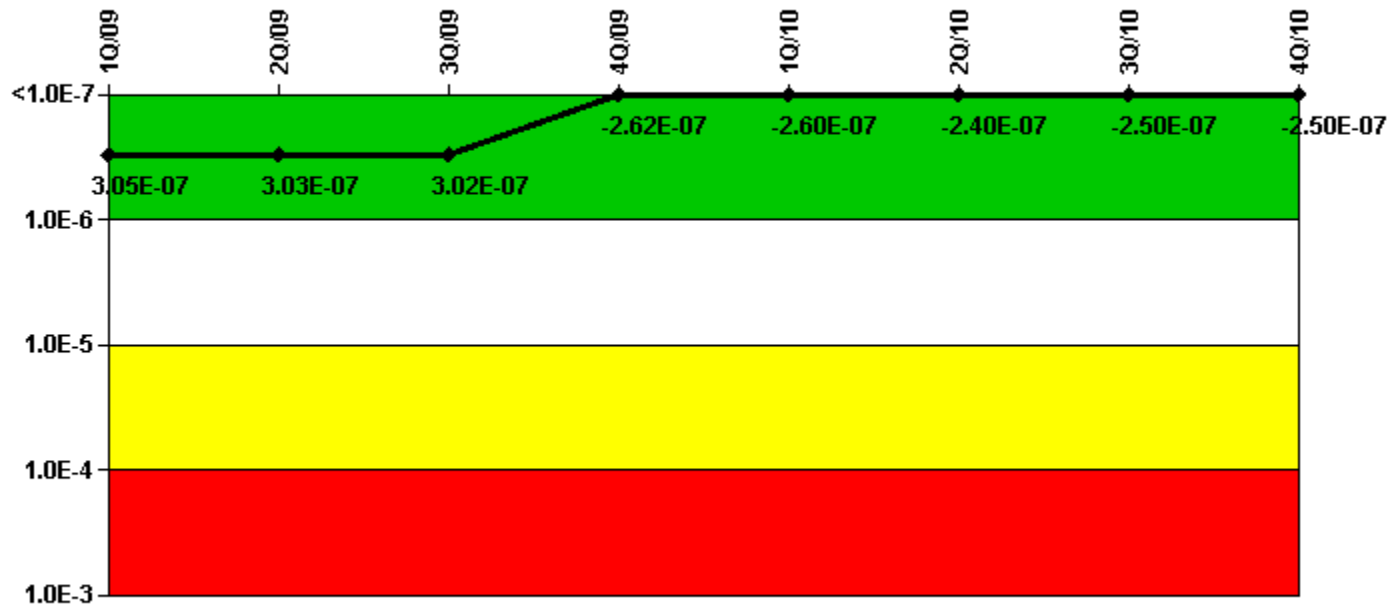
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-4.90E-08	-5.50E-08	-6.80E-08	3.10E-08	6.09E-08	4.11E-08	8.73E-09	-1.38E-08
URI (Δ CDF)	-2.70E-07	-2.70E-07	-2.70E-07	-2.70E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.19E-07	-3.25E-07	-3.38E-07	-2.39E-07	-2.00E-07	-2.20E-07	-2.60E-07	-2.80E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



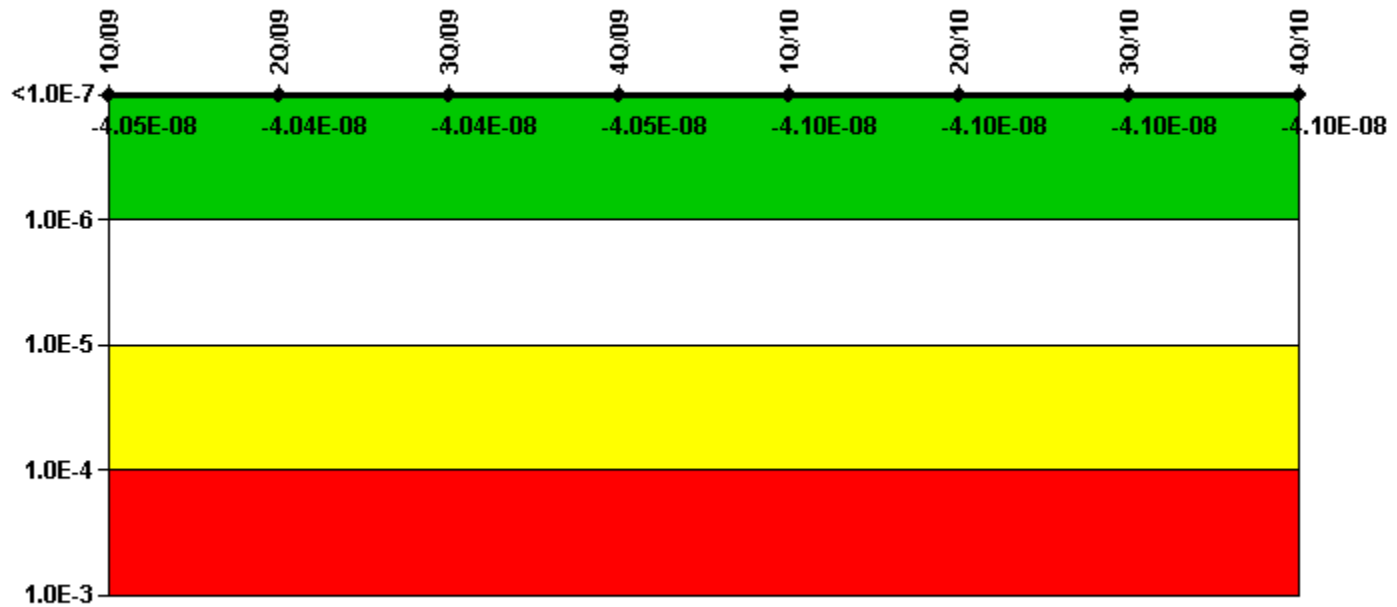
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	2.50E-08	2.30E-08	2.20E-08	1.80E-08	2.03E-08	3.36E-08	3.15E-08	3.05E-08
URI (Δ CDF)	2.80E-07	2.80E-07	2.80E-07	-2.80E-07	-2.77E-07	-2.77E-07	-2.77E-07	-2.77E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.05E-07	3.03E-07	3.02E-07	-2.62E-07	-2.60E-07	-2.40E-07	-2.50E-07	-2.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



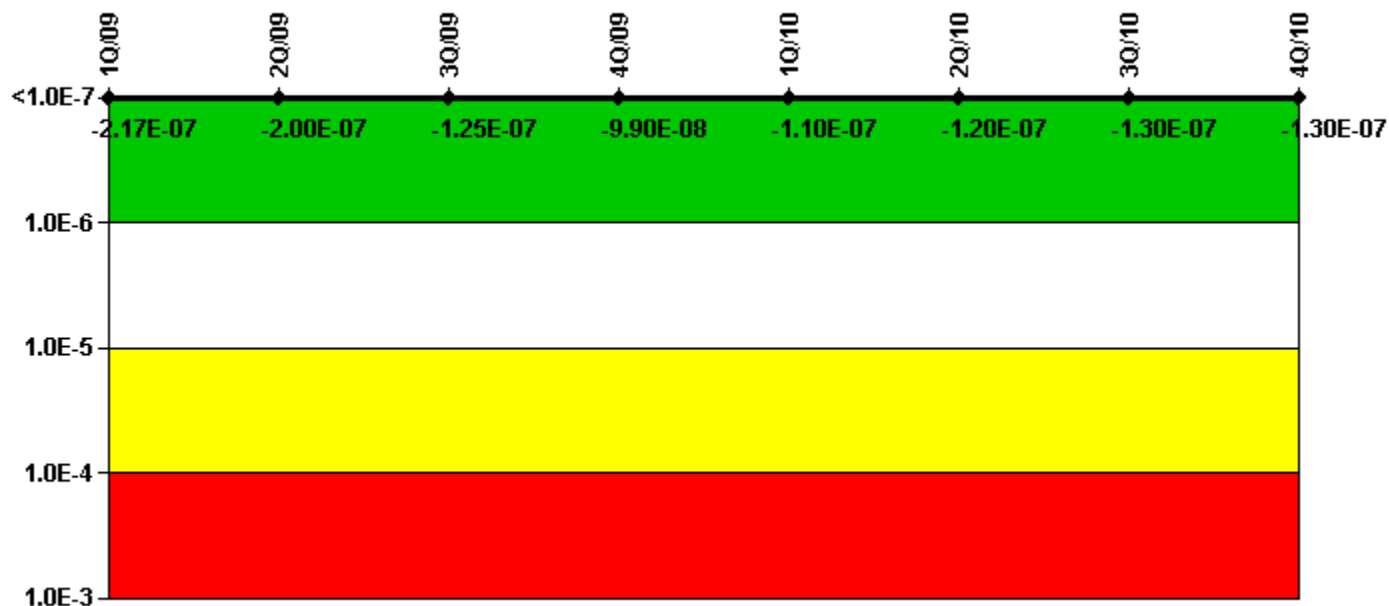
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (Δ CDF)	-4.80E-10	-3.60E-10	-4.10E-10	-4.80E-10	-3.39E-10	-3.02E-10	-3.51E-10	-4.08E-10
URI (Δ CDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.05E-08	-4.04E-08	-4.04E-08	-4.05E-08	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



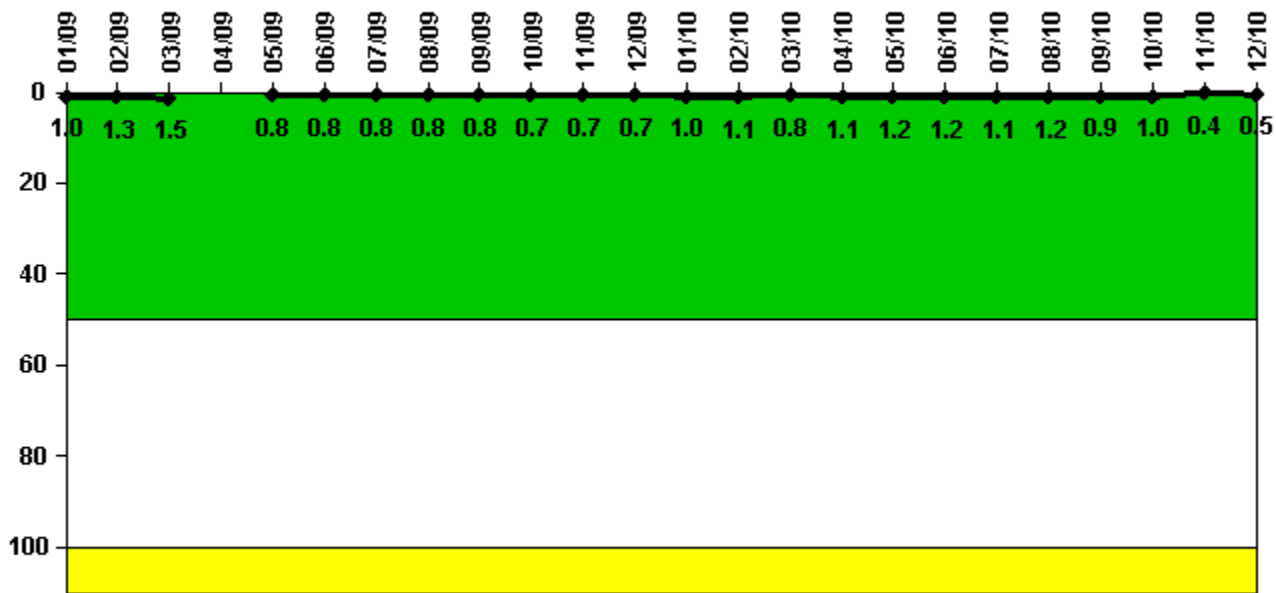
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (ΔCDF)	1.30E-08	3.00E-08	5.50E-08	8.10E-08	7.05E-08	6.84E-08	5.75E-08	5.98E-08
URI (ΔCDF)	-2.30E-07	-2.30E-07	-1.80E-07	-1.80E-07	-1.84E-07	-1.87E-07	-1.87E-07	-1.87E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.17E-07	-2.00E-07	-1.25E-07	-9.90E-08	-1.10E-07	-1.20E-07	-1.30E-07	-1.30E-07

Licensee Comments: none

Reactor Coolant System Activity



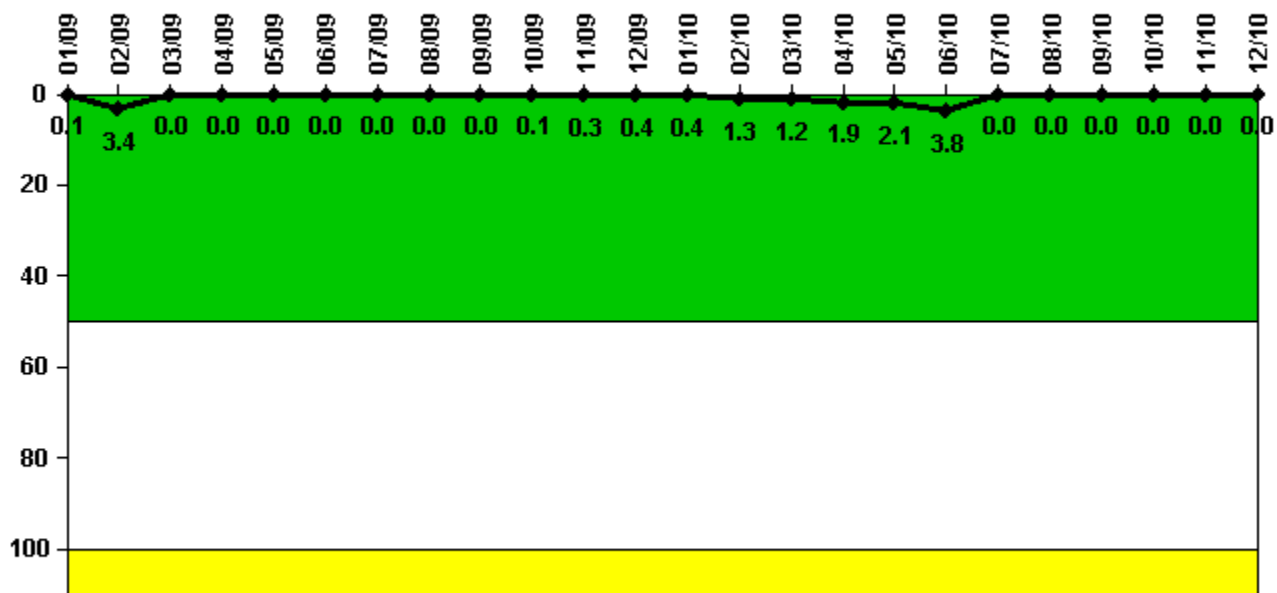
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum activity	0.010400	0.013200	0.014800	N/A	0.007570	0.007680	0.008310	0.008260	0.008190	0.007360	0.007120	0.007170
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.0	1.3	1.5	N/A	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7
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	0.010300	0.011000	0.007520	0.010600	0.011600	0.012100	0.010500	0.012300	0.009200	0.010100	0.004300	0.005100
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.0	1.1	0.8	1.1	1.2	1.2	1.1	1.2	0.9	1.0	0.4	0.5

Licensee Comments: none

Reactor Coolant System Leakage



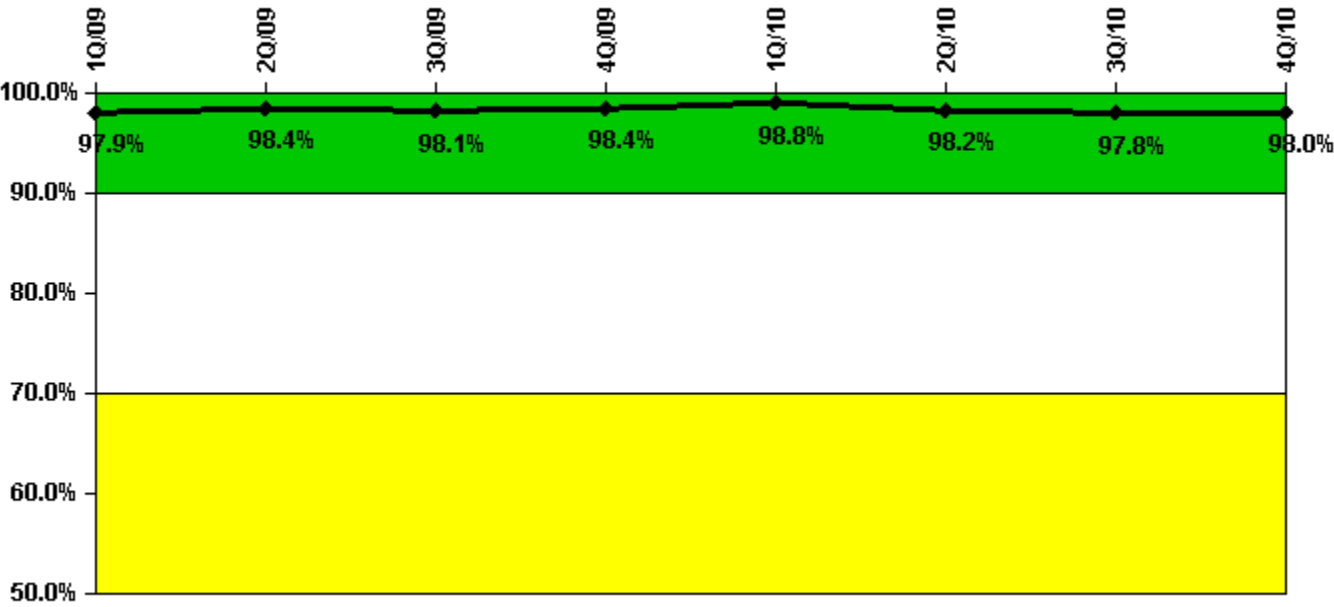
Thresholds: White > 50.0 Yellow > 100.0

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	0.013	0.341	0.001	0	0.003	0.003	0.003	0.004	0.003	0.013	0.026	0.037
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	3.4	0	0	0	0	0	0	0	0.1	0.3	0.4
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	0.037	0.132	0.119	0.185	0.211	0.383	0.003	0.001	0.001	0.001	0.001	0.002
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.4	1.3	1.2	1.9	2.1	3.8	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



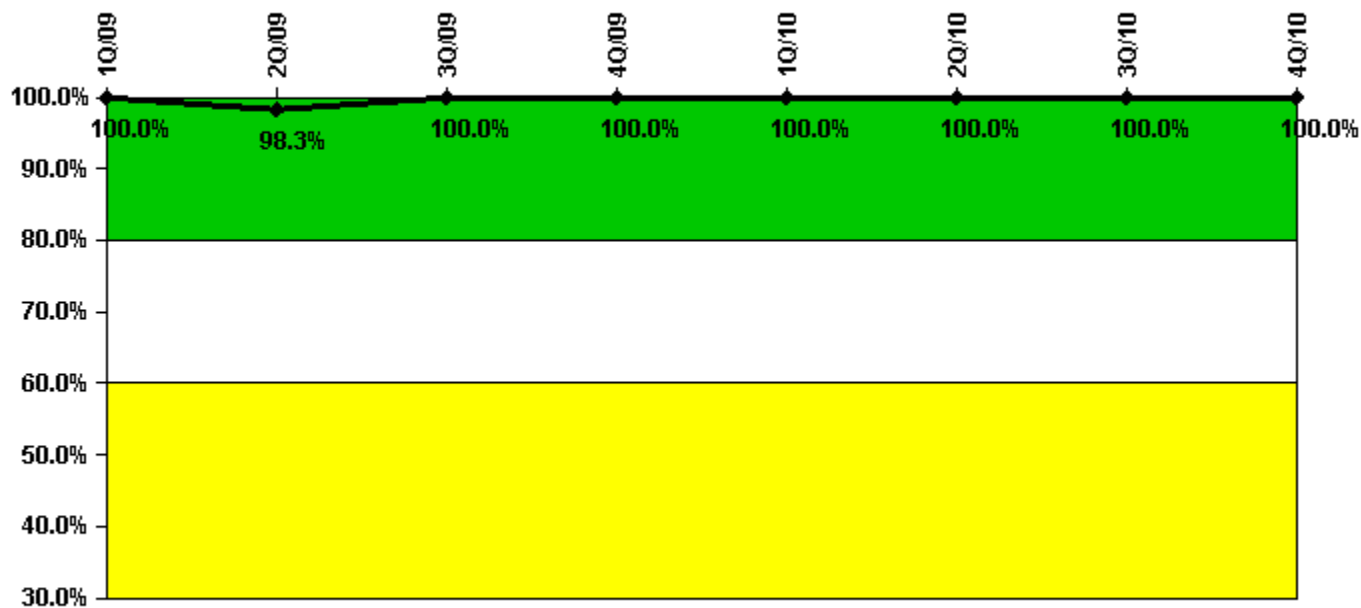
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful opportunities	65.0	12.0	23.0	22.0	89.0	28.0	23.0	32.0
Total opportunities	66.0	12.0	24.0	22.0	90.0	30.0	24.0	32.0
Indicator value	97.9%	98.4%	98.1%	98.4%	98.8%	98.2%	97.8%	98.0%

Licensee Comments: none

ERO Drill Participation



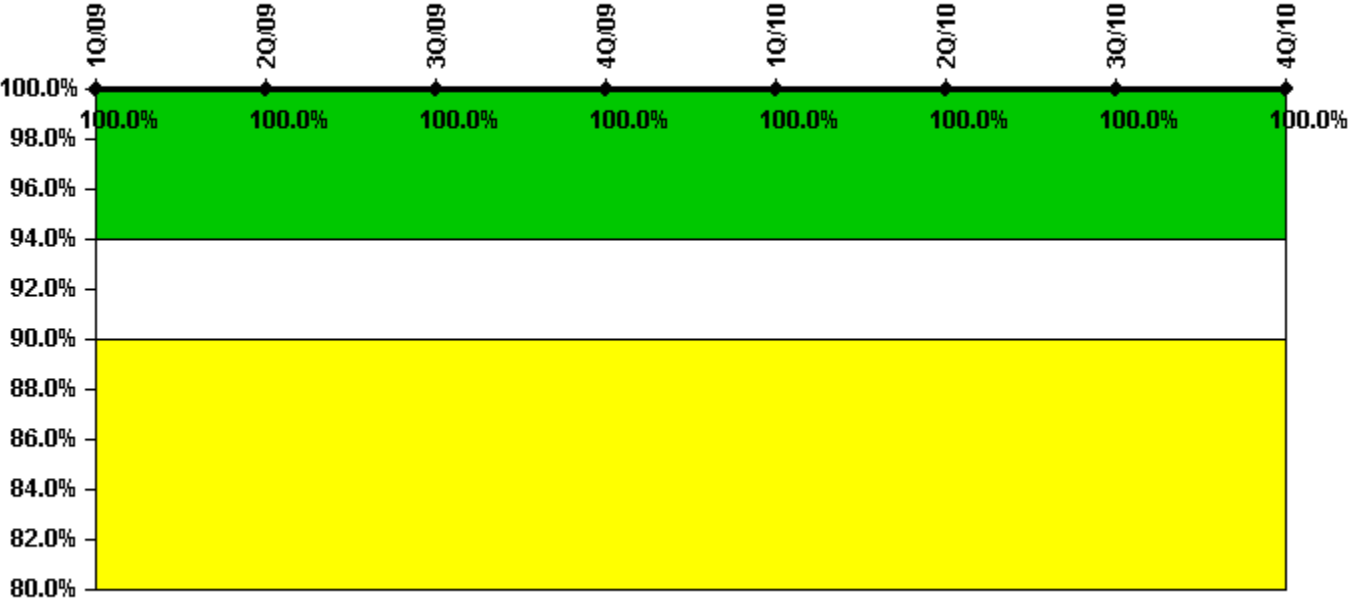
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Participating Key personnel	120.0	113.0	122.0	123.0	75.0	80.0	82.0	81.0
Total Key personnel	120.0	115.0	122.0	123.0	75.0	80.0	82.0	81.0
Indicator value	100.0%	98.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



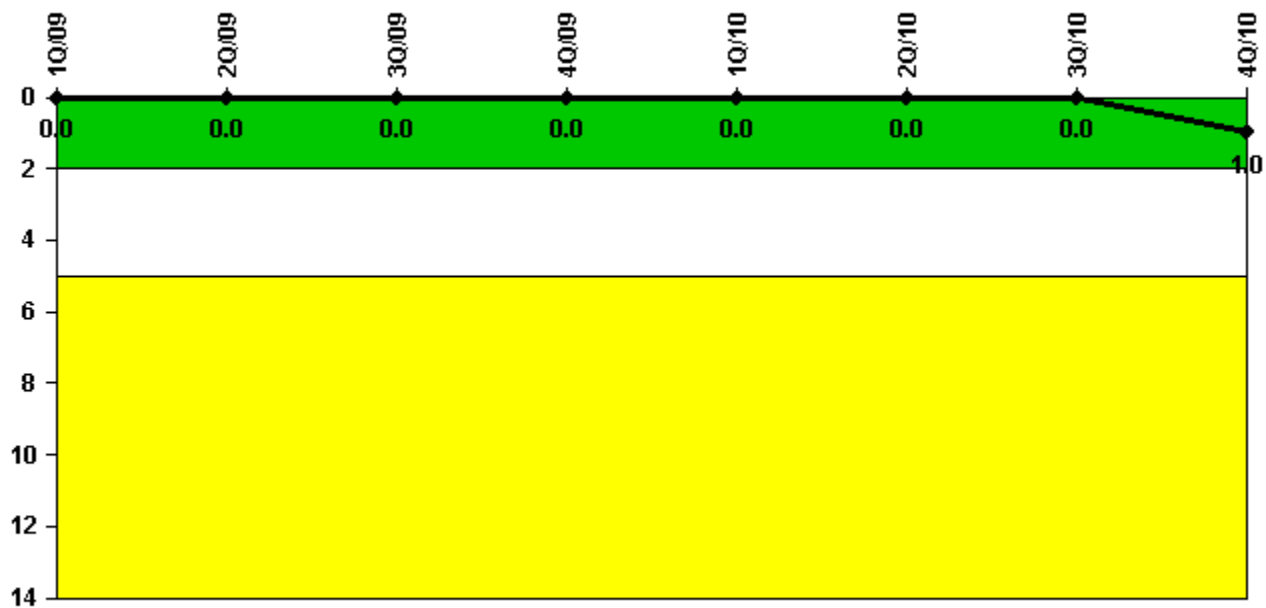
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful siren-tests	183	183	183	183	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
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



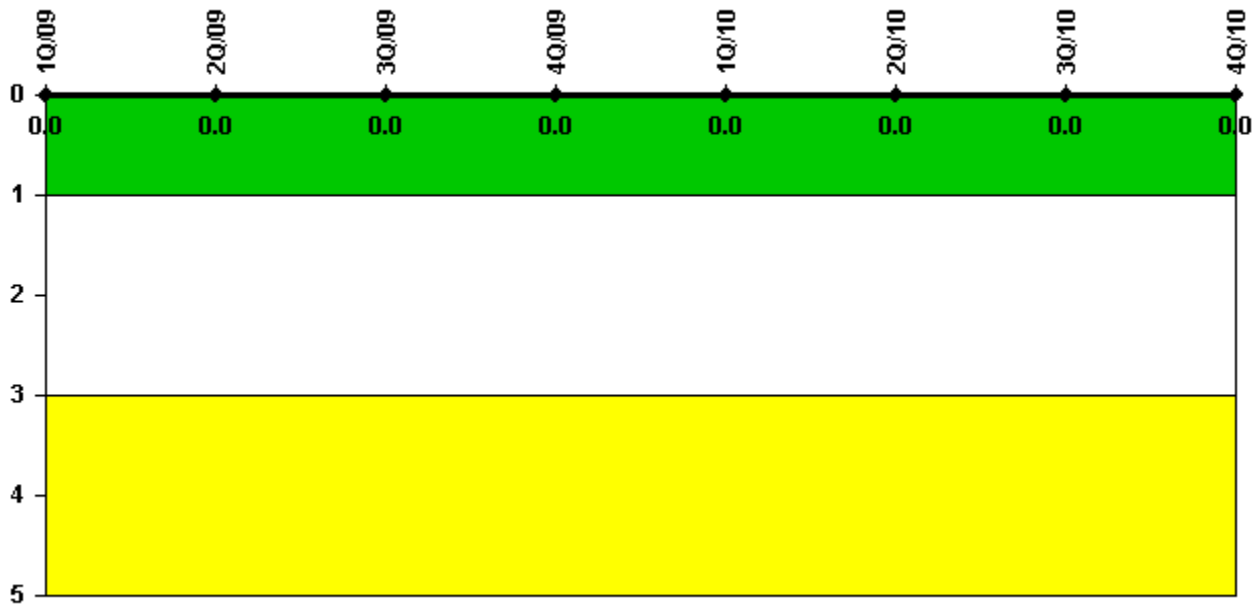
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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	1
Indicator value	0	0	0	0	0	0	0	1

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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.

Palisades

1Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



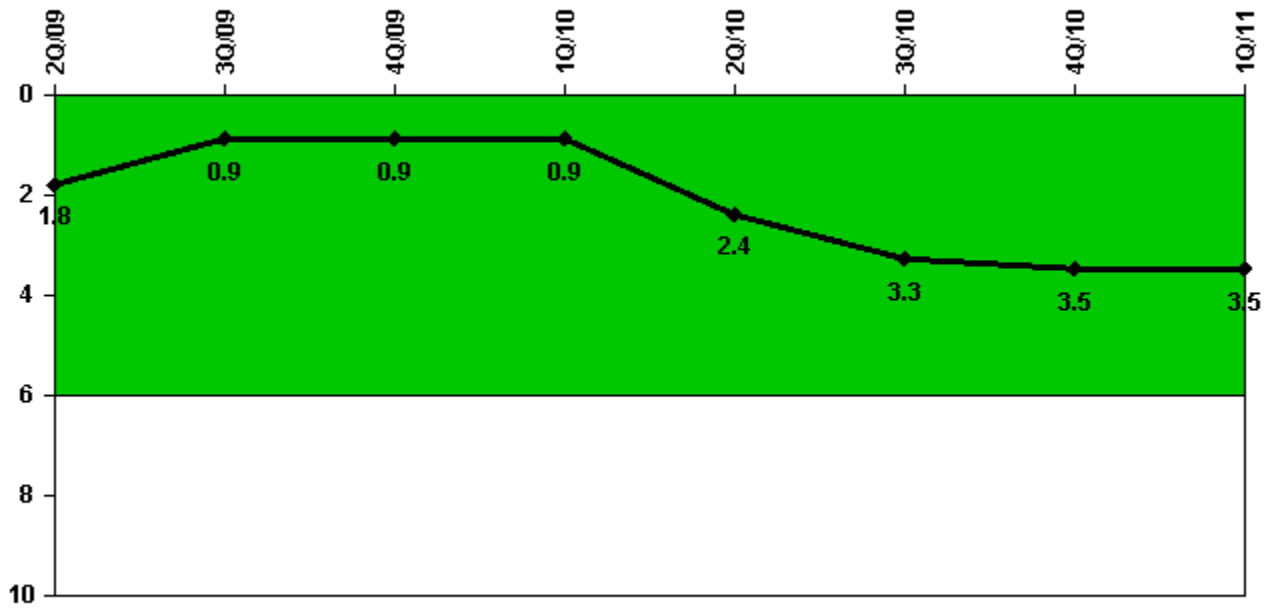
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	1522.5	2208.0	2209.0	2159.0	2031.9	2167.6	1594.9	2111.3
Indicator value	0	0	0	0	0	0	0	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



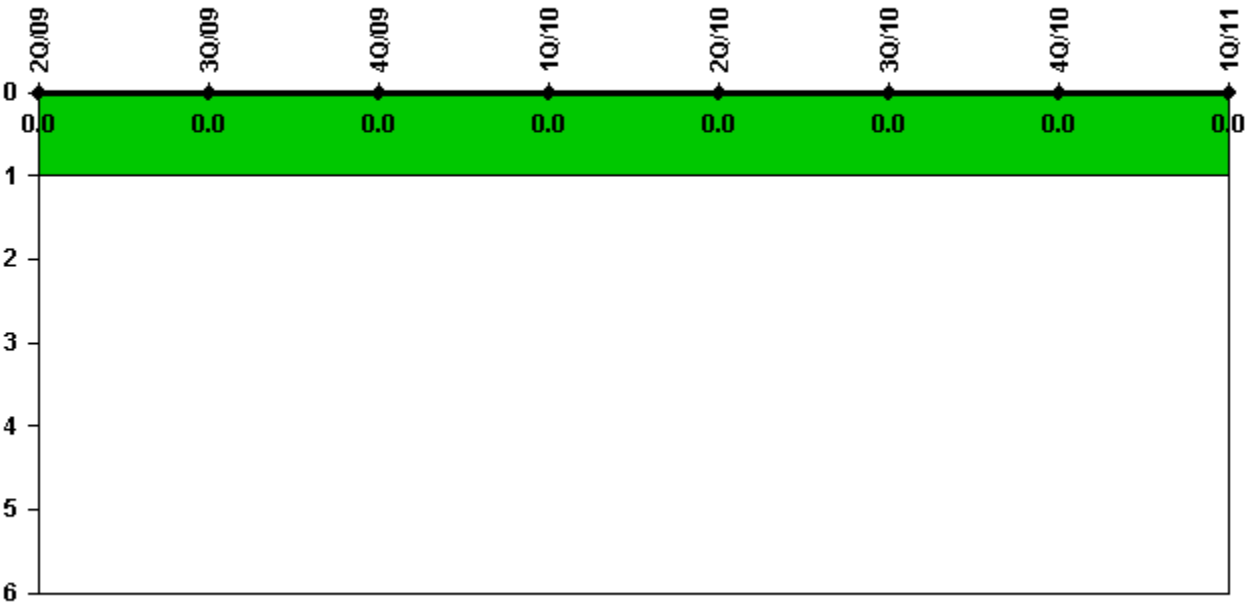
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned power changes	0	0	0	1.0	2.0	1.0	0	1.0
Critical hours	1522.5	2208.0	2209.0	2159.0	2031.9	2167.6	1594.9	2111.3
Indicator value	1.8	0.9	0.9	0.9	2.4	3.3	3.5	3.5

Licensee Comments: none

Unplanned Scrams with Complications



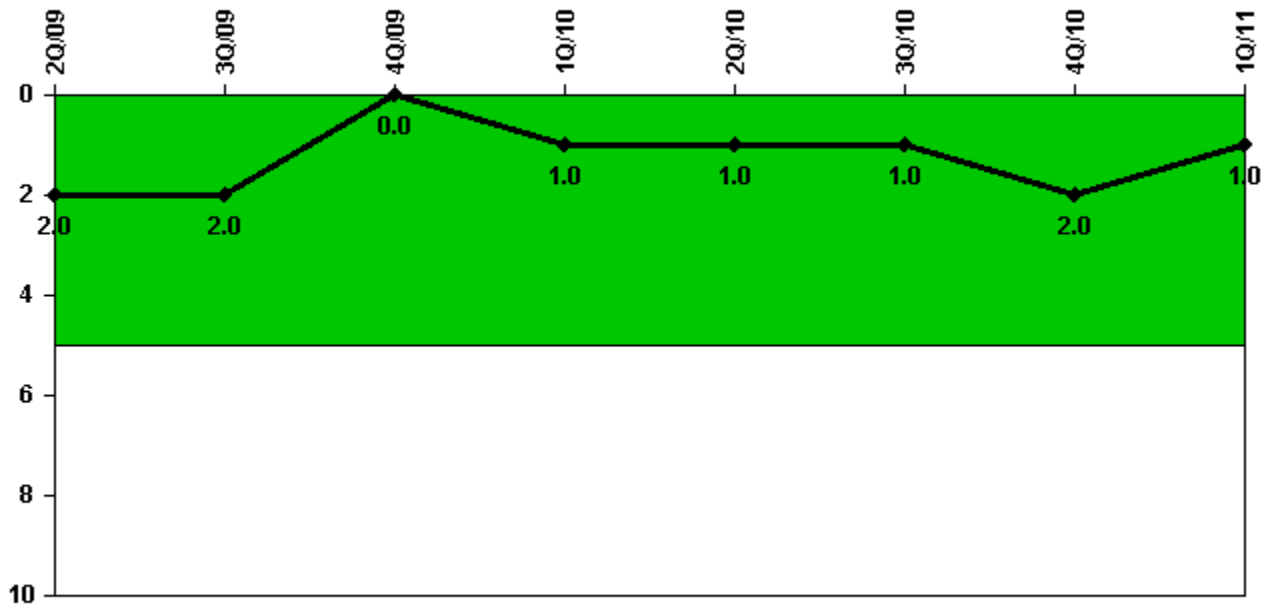
Thresholds: White > 1.0

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)



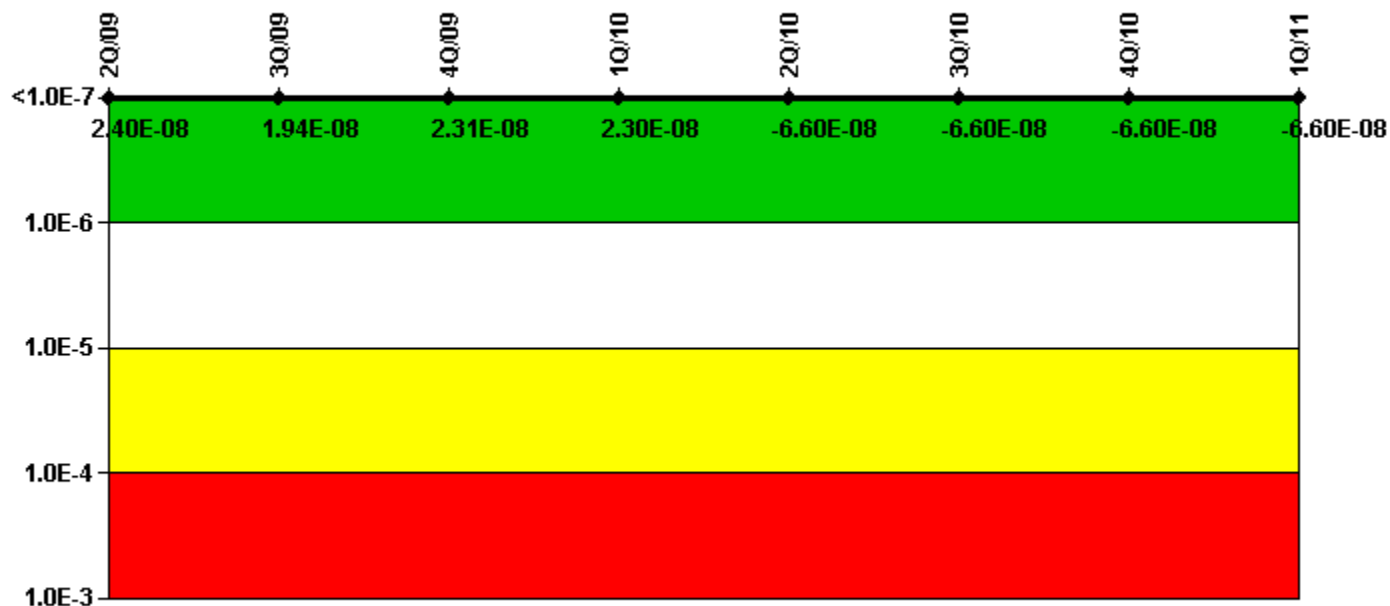
Thresholds: White > 5.0

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

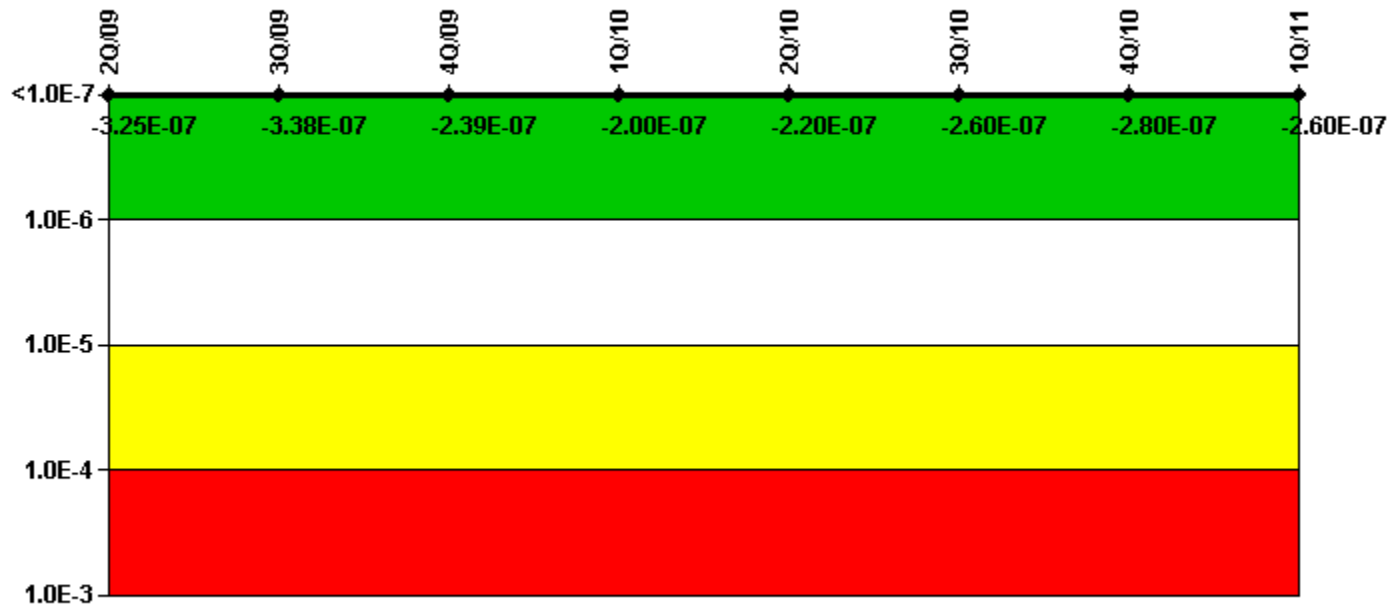
Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	3.09E-08	2.60E-08	2.90E-08	2.82E-08	-2.35E-08	-2.36E-08	-2.36E-08	-2.36E-08
URI (ΔCDF)	-7.19E-09	-6.60E-09	-5.90E-09	-5.21E-09	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.40E-08	1.94E-08	2.31E-08	2.30E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08

Licensee Comments:

1Q/11: Evaluation on Emergency Diesel Generator K-6AG turbocharger support cracking identified in November 2010 concluded No MSPI Failure occurred. (Reference CR-PLP-2010-05859)

Mitigating Systems Performance Index, High Pressure Injection System



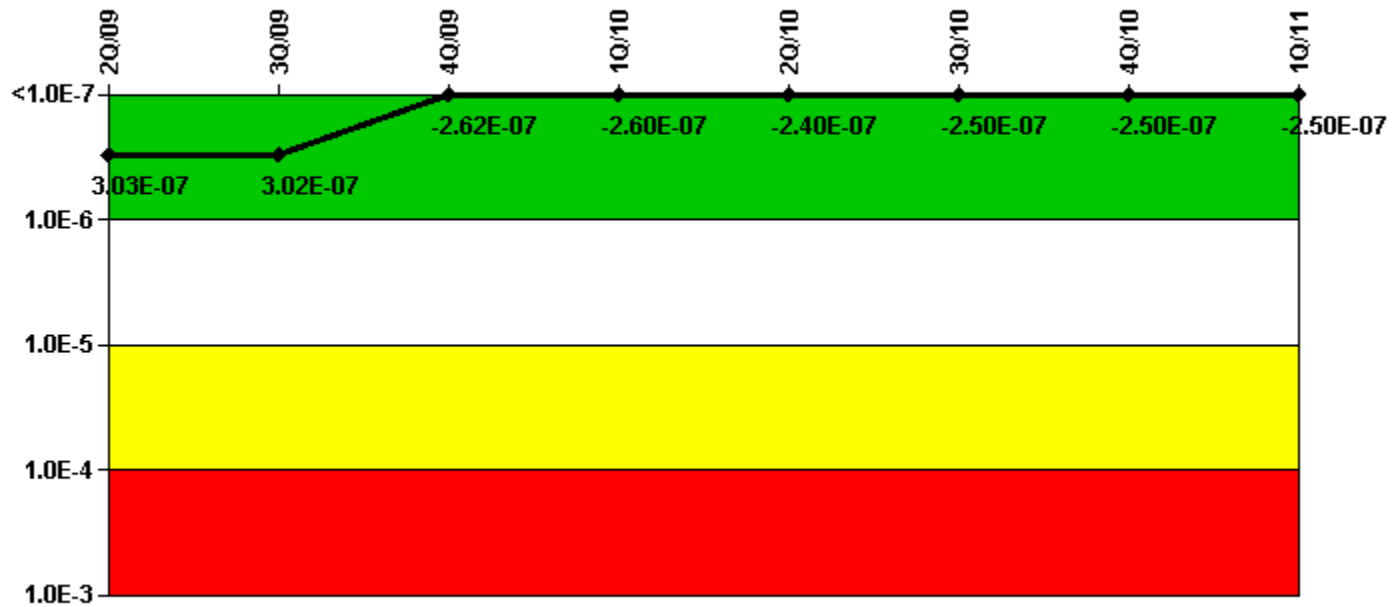
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-5.50E-08	-6.80E-08	3.10E-08	6.09E-08	4.11E-08	8.73E-09	-1.38E-08	7.23E-09
URI (Δ CDF)	-2.70E-07	-2.70E-07	-2.70E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.25E-07	-3.38E-07	-2.39E-07	-2.00E-07	-2.20E-07	-2.60E-07	-2.80E-07	-2.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



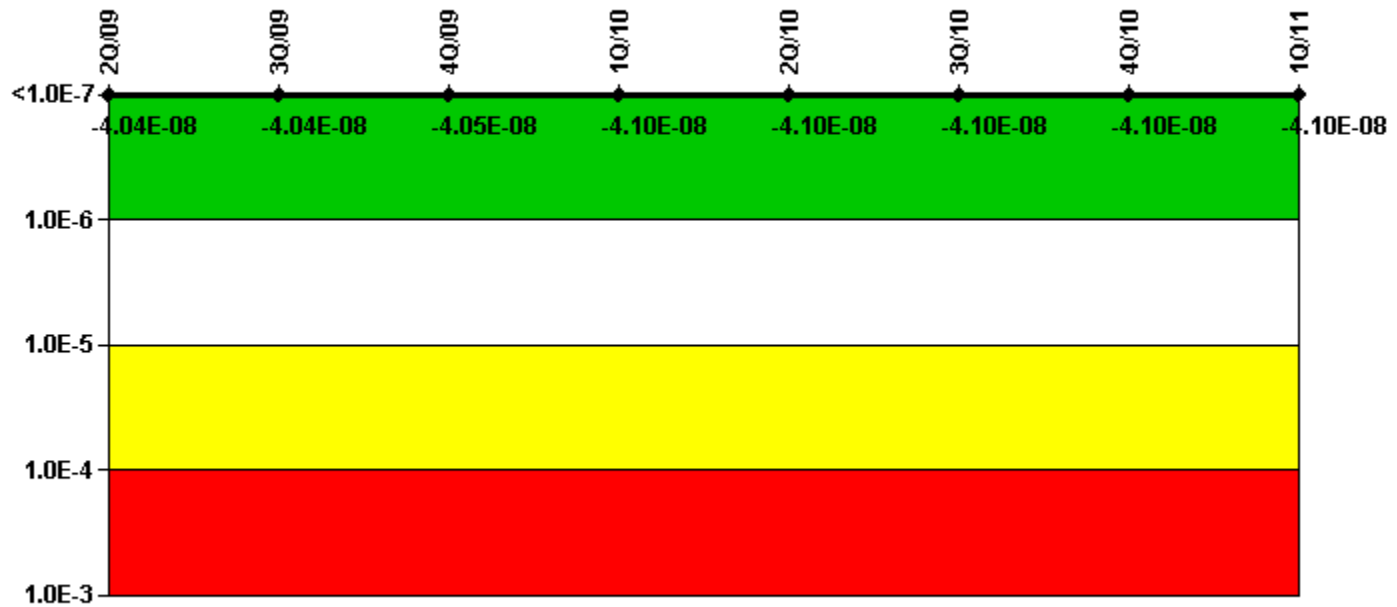
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	2.30E-08	2.20E-08	1.80E-08	2.03E-08	3.36E-08	3.15E-08	3.05E-08	3.21E-08
URI (Δ CDF)	2.80E-07	2.80E-07	-2.80E-07	-2.77E-07	-2.77E-07	-2.77E-07	-2.77E-07	-2.78E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.03E-07	3.02E-07	-2.62E-07	-2.60E-07	-2.40E-07	-2.50E-07	-2.50E-07	-2.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



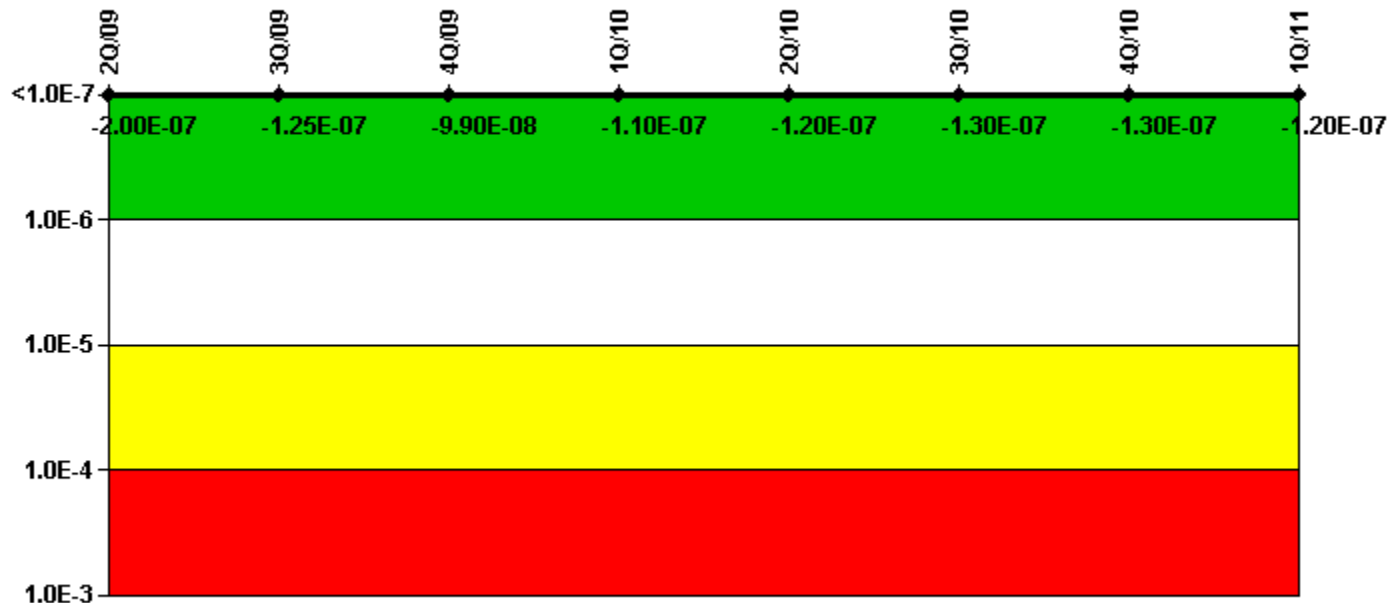
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	-3.60E-10	-4.10E-10	-4.80E-10	-3.39E-10	-3.02E-10	-3.51E-10	-4.08E-10	-3.96E-10
URI (Δ CDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.04E-08	-4.04E-08	-4.05E-08	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



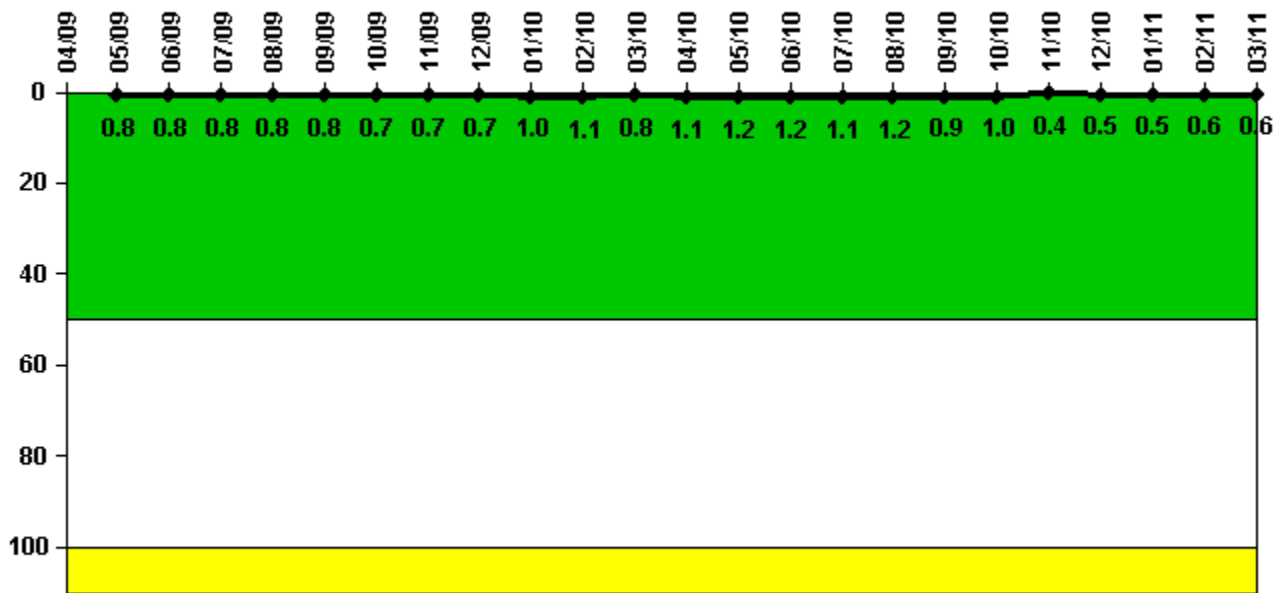
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	3.00E-08	5.50E-08	8.10E-08	7.05E-08	6.84E-08	5.75E-08	5.98E-08	6.53E-08
URI (ΔCDF)	-2.30E-07	-1.80E-07	-1.80E-07	-1.84E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-07	-1.25E-07	-9.90E-08	-1.10E-07	-1.20E-07	-1.30E-07	-1.30E-07	-1.20E-07

Licensee Comments: none

Reactor Coolant System Activity



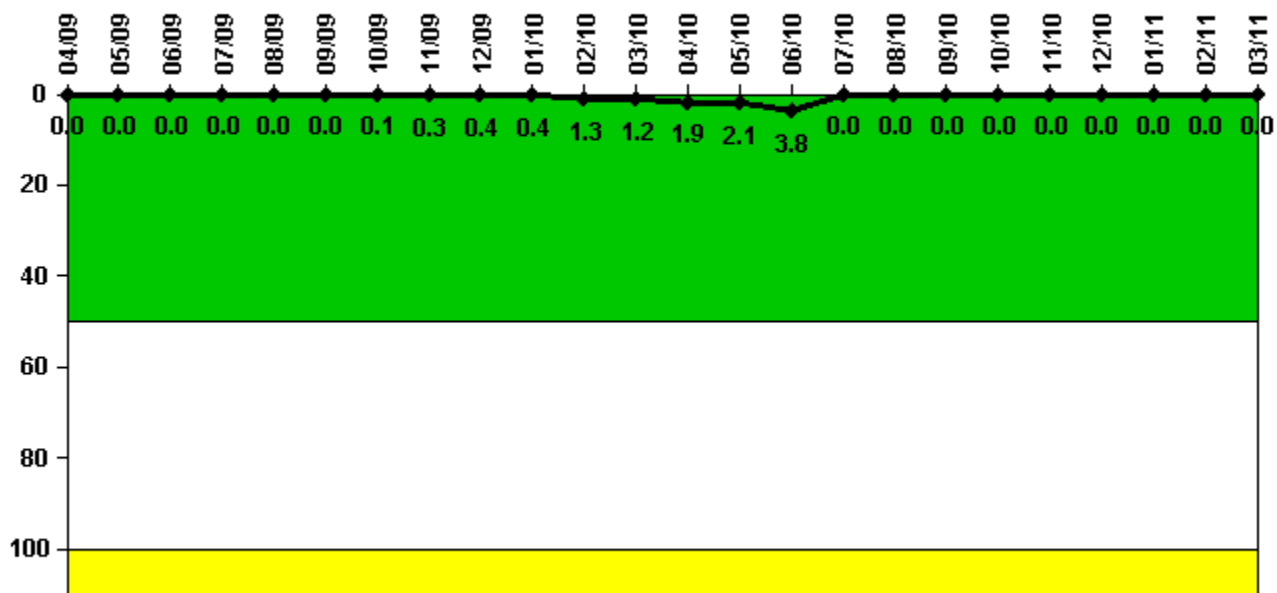
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum activity	N/A	0.007570	0.007680	0.008310	0.008260	0.008190	0.007360	0.007120	0.007170	0.010300	0.011000	0.007520
Technical specification limit	1.0	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	0.8	0.8	0.8	0.8	0.8	0.7	0.7	0.7	1.0	1.1	0.8
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	0.010600	0.011600	0.012100	0.010500	0.012300	0.009200	0.010100	0.004300	0.005100	0.005050	0.005660	0.005970
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.1	1.2	1.2	1.1	1.2	0.9	1.0	0.4	0.5	0.5	0.6	0.6

Licensee Comments: none

Reactor Coolant System Leakage



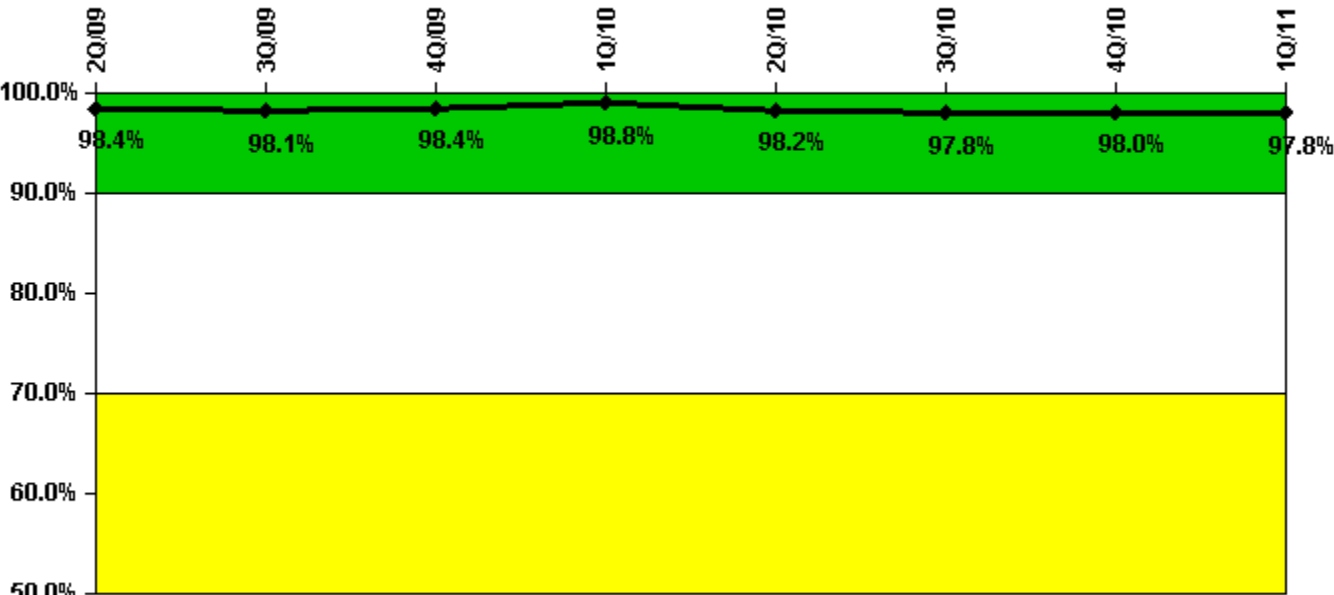
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/09	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	0.003	0.003	0.003	0.004	0.003	0.013	0.026	0.037	0.037	0.132	0.119
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0.1	0.3	0.4	0.4	1.3	1.2
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	0.185	0.211	0.383	0.003	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001
Technical specification limit	10.0	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	2.1	3.8	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



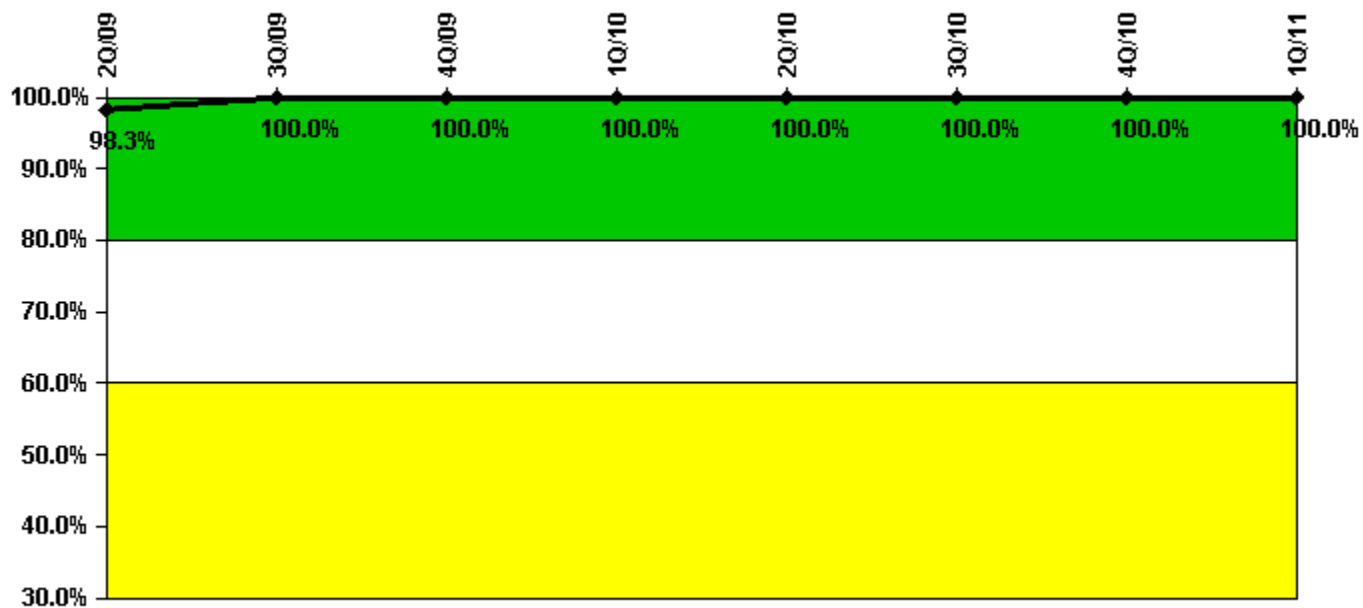
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful opportunities	12.0	23.0	22.0	89.0	28.0	23.0	32.0	76.0
Total opportunities	12.0	24.0	22.0	90.0	30.0	24.0	32.0	78.0
Indicator value	98.4%	98.1%	98.4%	98.8%	98.2%	97.8%	98.0%	97.8%

Licensee Comments: none

ERO Drill Participation



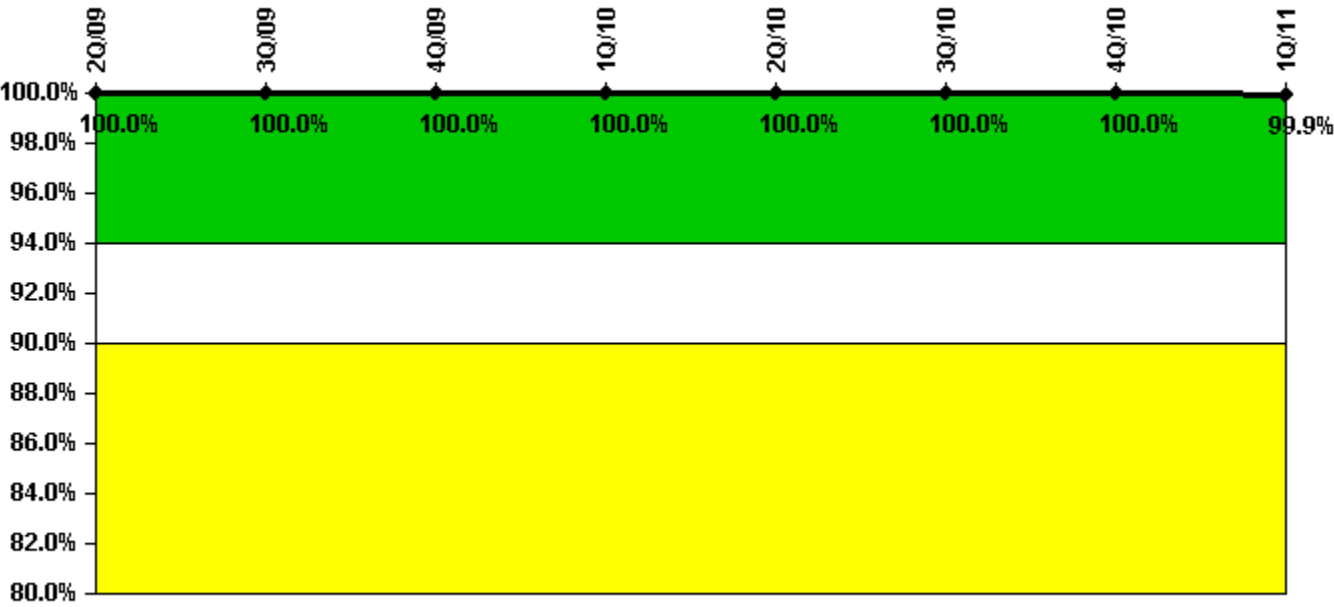
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Participating Key personnel	113.0	122.0	123.0	75.0	80.0	82.0	81.0	80.0
Total Key personnel	115.0	122.0	123.0	75.0	80.0	82.0	81.0	80.0
Indicator value	98.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



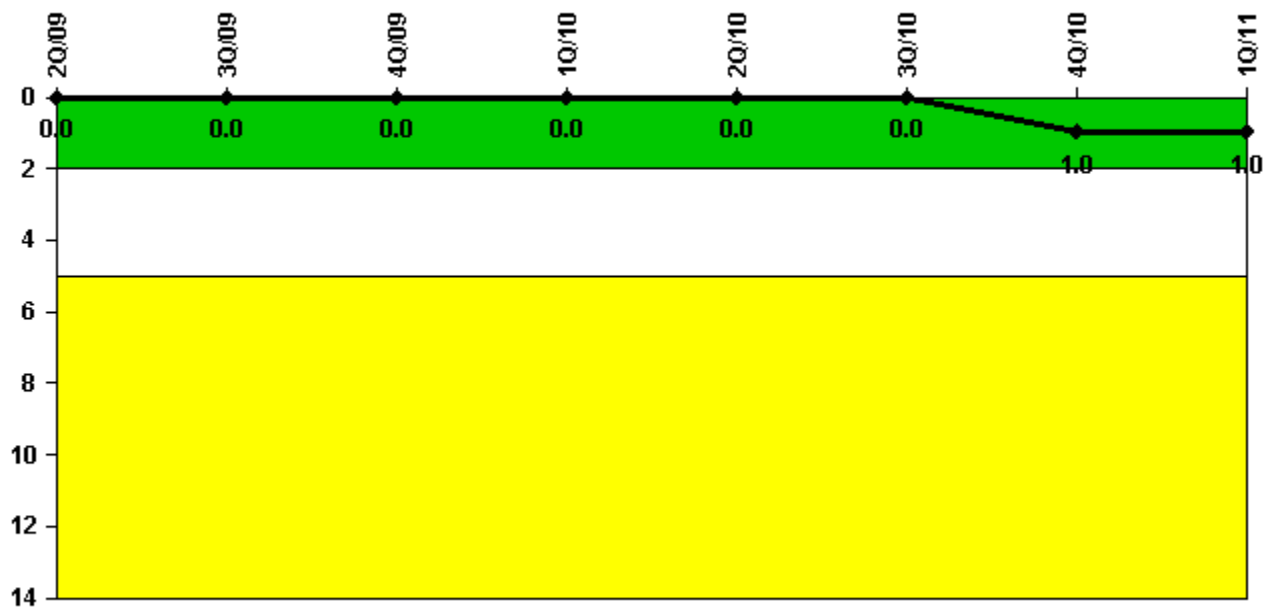
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful siren-tests	183	183	183	183	183	183	183	182
Total sirens-tests	183	183	183	183	183	183	183	183
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



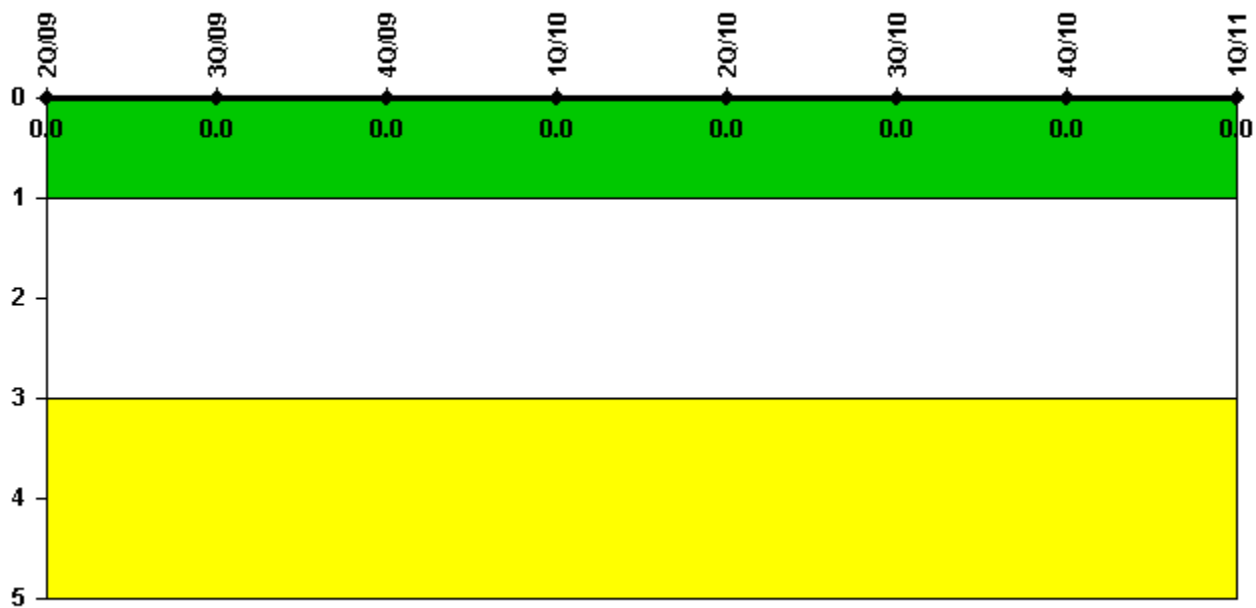
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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	1	0
Indicator value	0	0	0	0	0	0	1	1

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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.

Palisades

2Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



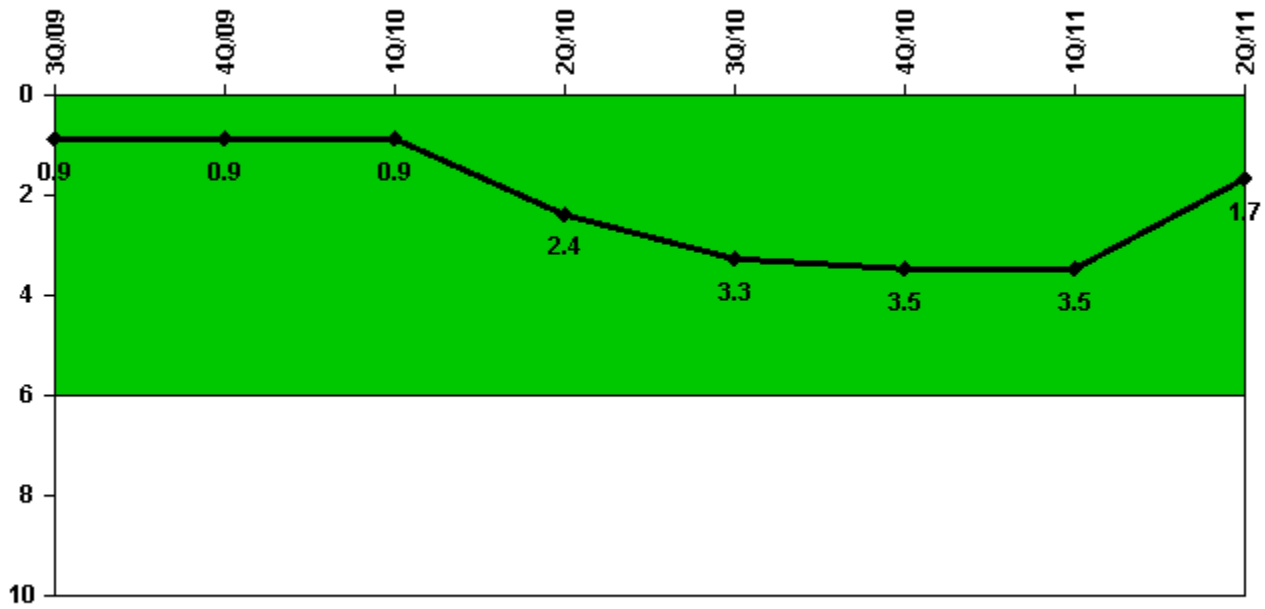
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2208.0	2209.0	2159.0	2031.9	2167.6	1594.9	2111.3	2184.0
Indicator value	0	0	0	0	0	0	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



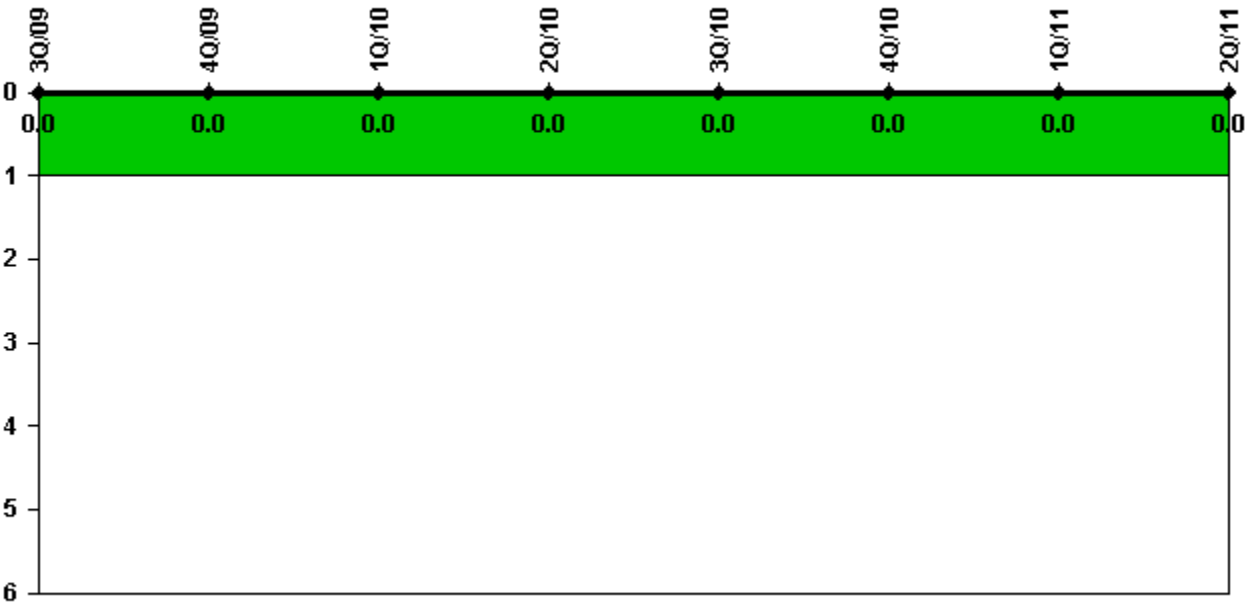
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned power changes	0	0	1.0	2.0	1.0	0	1.0	0
Critical hours	2208.0	2209.0	2159.0	2031.9	2167.6	1594.9	2111.3	2184.0
Indicator value	0.9	0.9	0.9	2.4	3.3	3.5	3.5	1.7

Licensee Comments: none

Unplanned Scrams with Complications



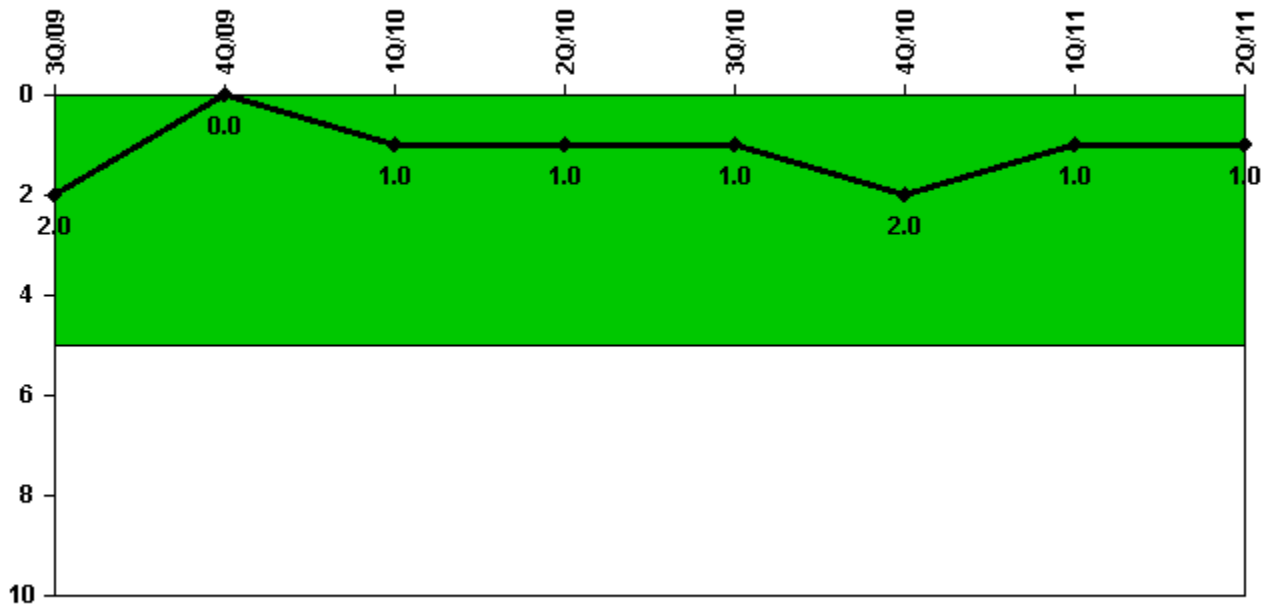
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



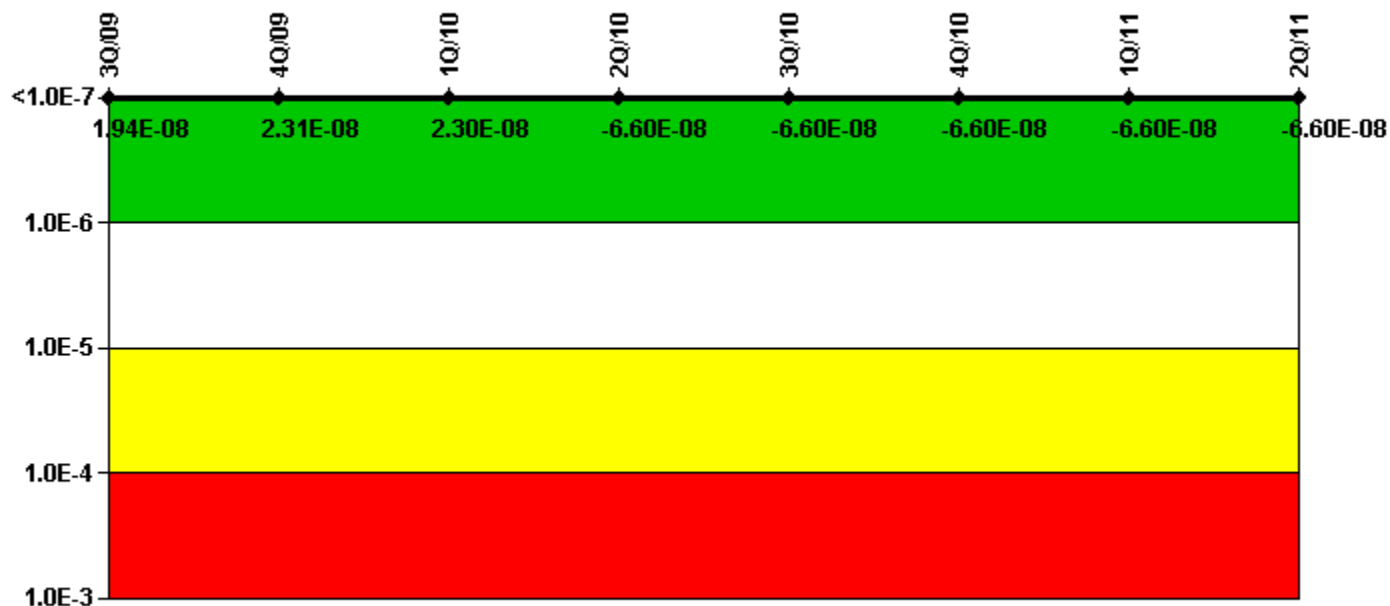
Thresholds: White > 5.0

Notes

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

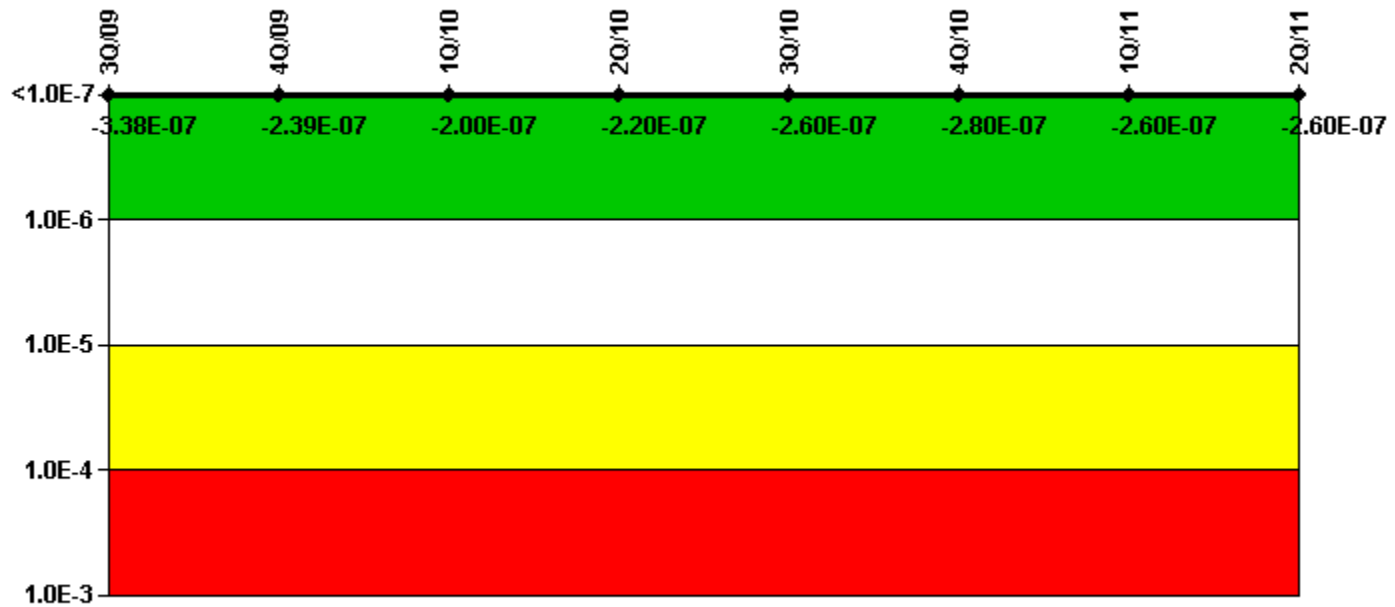
Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	2.60E-08	2.90E-08	2.82E-08	-2.35E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08
URI (Δ CDF)	-6.60E-09	-5.90E-09	-5.21E-09	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.94E-08	2.31E-08	2.30E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08

Licensee Comments:

2Q/11: Evaluation is pending of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage identified in April 2011. (Reference CR-PLP-2011-01933)

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)	-6.80E-08	3.10E-08	6.09E-08	4.11E-08	8.73E-09	-1.38E-08	7.23E-09	9.52E-10
URI (Δ CDF)	-2.70E-07	-2.70E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.38E-07	-2.39E-07	-2.00E-07	-2.20E-07	-2.60E-07	-2.80E-07	-2.60E-07	-2.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



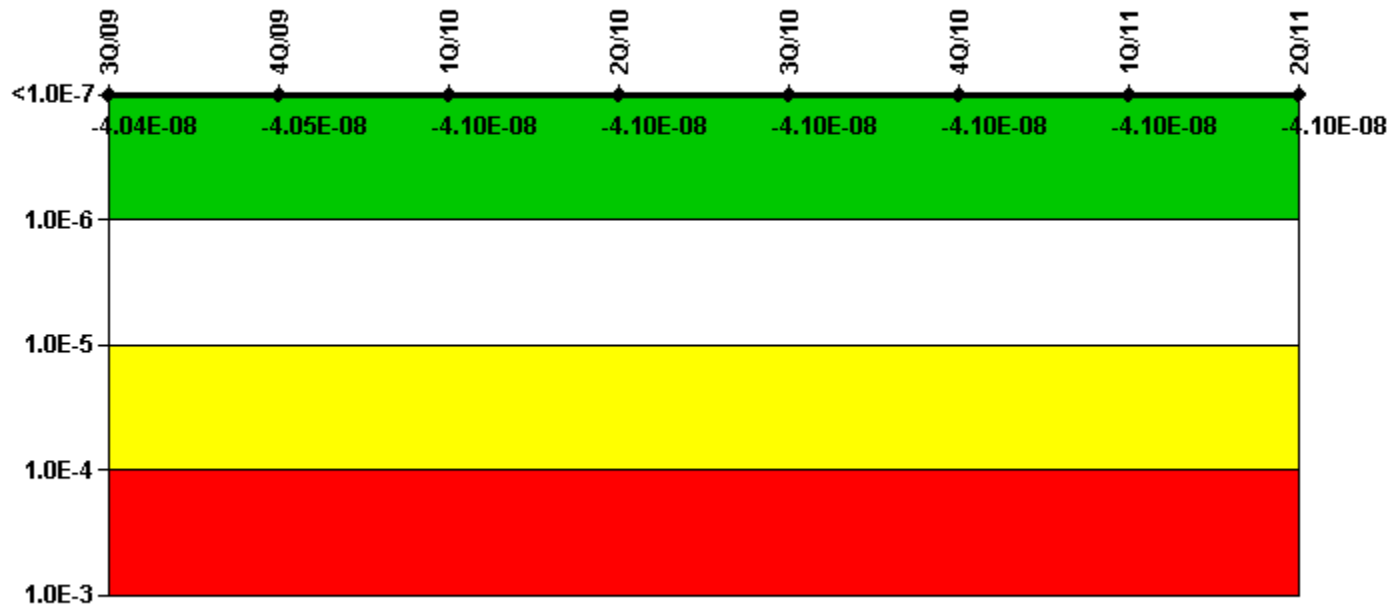
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	2.20E-08	1.80E-08	2.03E-08	3.36E-08	3.15E-08	3.05E-08	3.21E-08	3.63E-08
URI (Δ CDF)	2.80E-07	-2.80E-07	-2.77E-07	-2.77E-07	-2.77E-07	-2.77E-07	-2.78E-07	-2.01E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.02E-07	-2.62E-07	-2.60E-07	-2.40E-07	-2.50E-07	-2.50E-07	-2.50E-07	-1.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



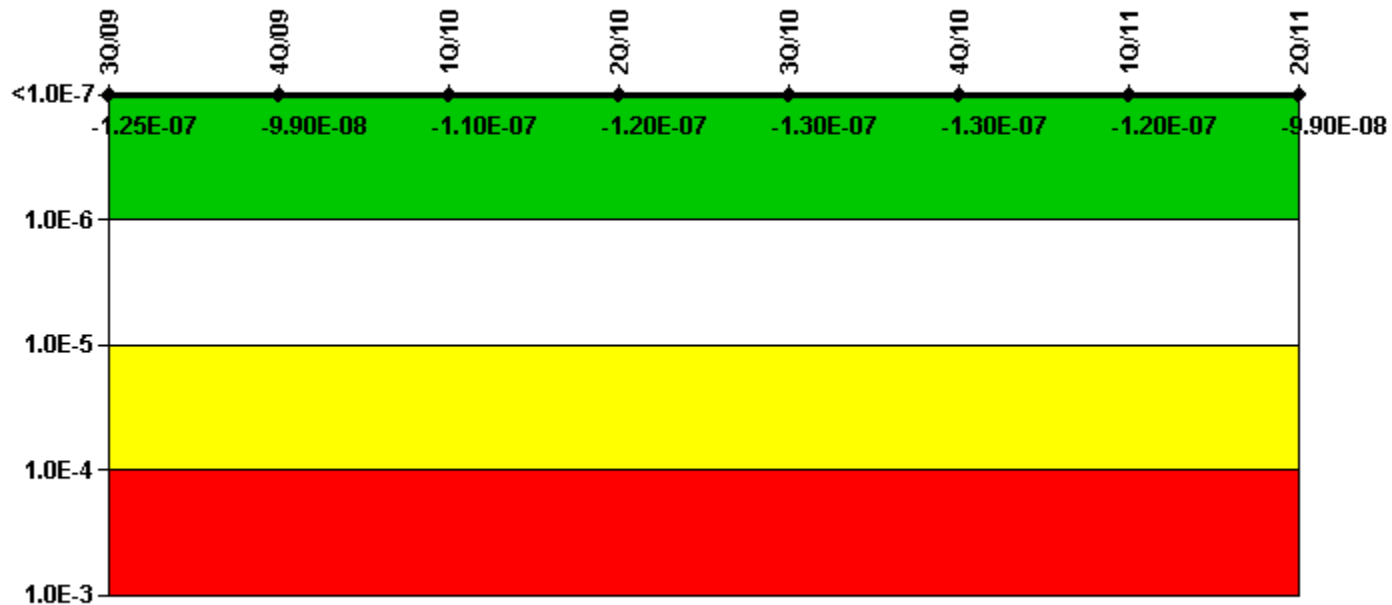
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	-4.10E-10	-4.80E-10	-3.39E-10	-3.02E-10	-3.51E-10	-4.08E-10	-3.96E-10	-4.52E-10
URI (Δ CDF)	-4.00E-08	-4.00E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.04E-08	-4.05E-08	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



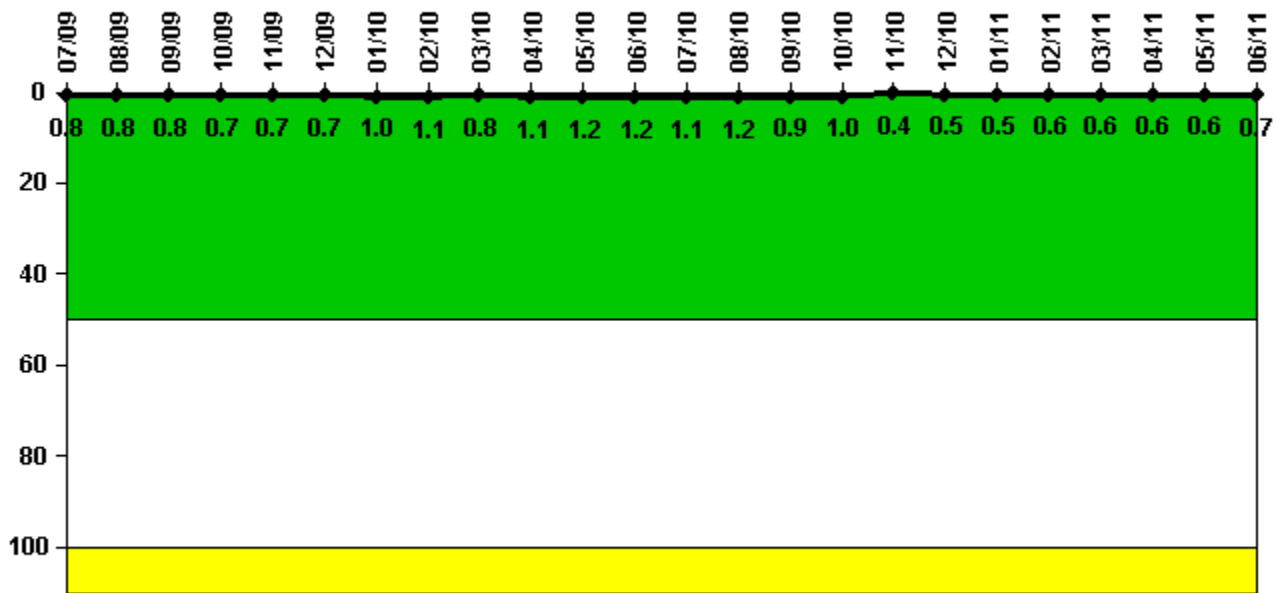
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	5.50E-08	8.10E-08	7.05E-08	6.84E-08	5.75E-08	5.98E-08	6.53E-08	8.72E-08
URI (ΔCDF)	-1.80E-07	-1.80E-07	-1.84E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.25E-07	-9.90E-08	-1.10E-07	-1.20E-07	-1.30E-07	-1.30E-07	-1.20E-07	-9.90E-08

Licensee Comments: none

Reactor Coolant System Activity



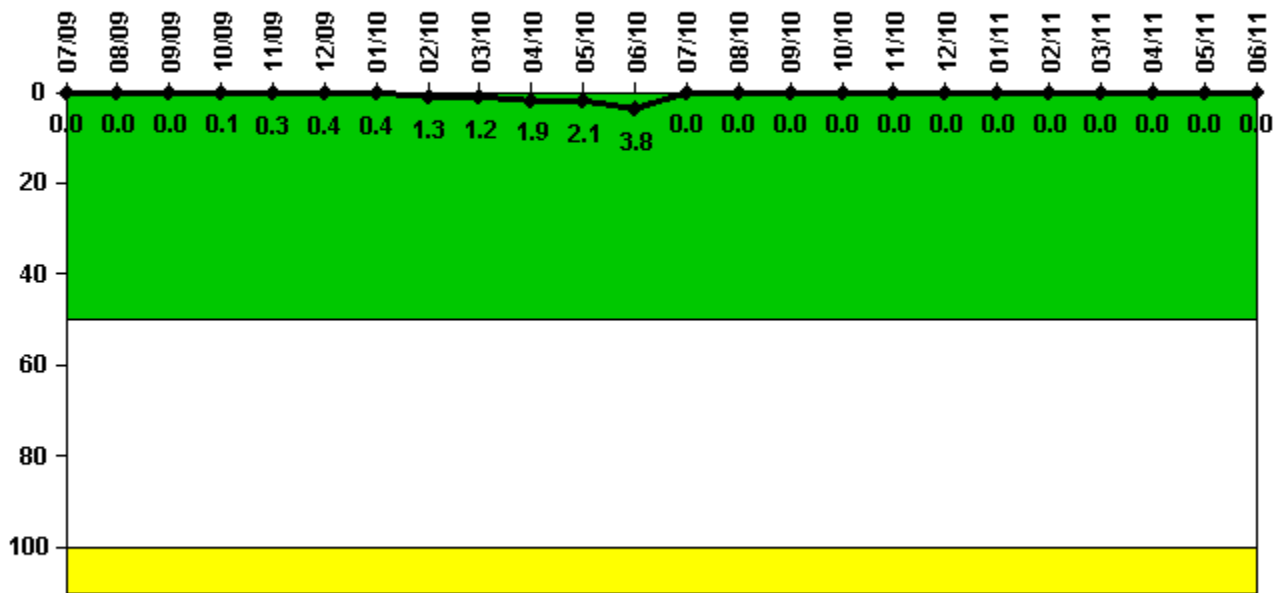
Thresholds: White > 50.0 Yellow > 100.0

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	0.008310	0.008260	0.008190	0.007360	0.007120	0.007170	0.010300	0.011000	0.007520	0.010600	0.011600	0.012100
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.8	0.8	0.8	0.7	0.7	0.7	1.0	1.1	0.8	1.1	1.2	1.2
Reactor Coolant System Activity	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.010500	0.012300	0.009200	0.010100	0.004300	0.005100	0.005050	0.005660	0.005970	0.005970	0.006320	0.006520
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.1	1.2	0.9	1.0	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.7

Licensee Comments: none

Reactor Coolant System Leakage



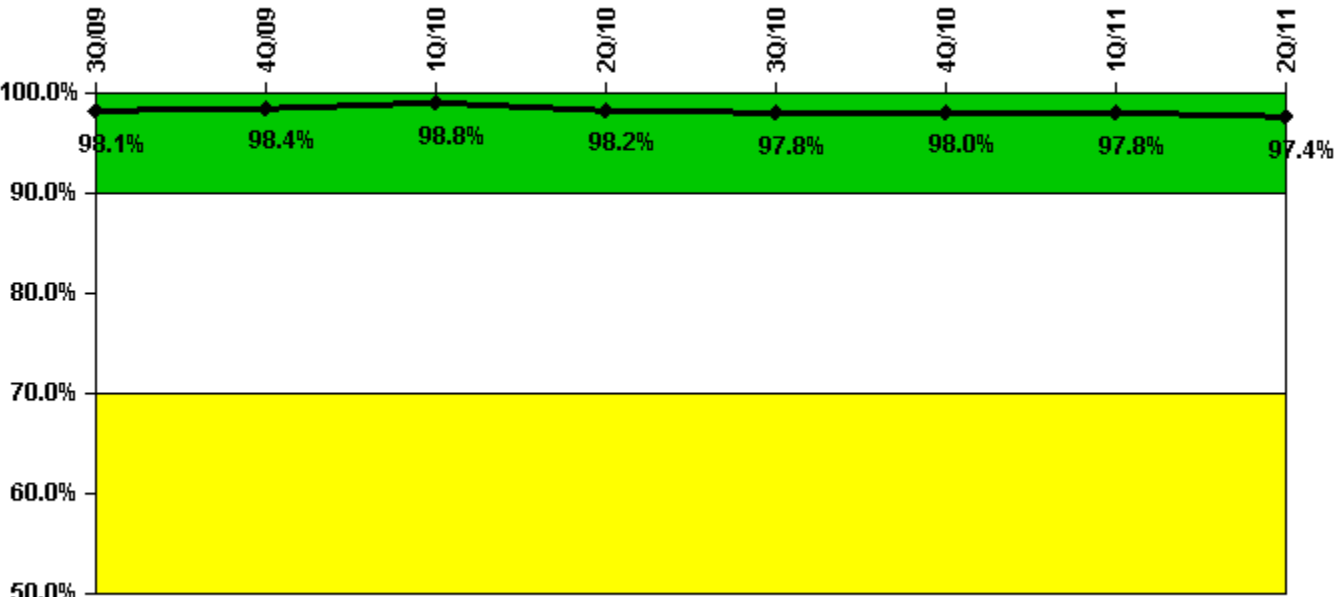
Thresholds: White > 50.0 Yellow > 100.0

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	0.003	0.004	0.003	0.013	0.026	0.037	0.037	0.132	0.119	0.185	0.211	0.383
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0.1	0.3	0.4	0.4	1.3	1.2	1.9	2.1	3.8
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	0.003	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



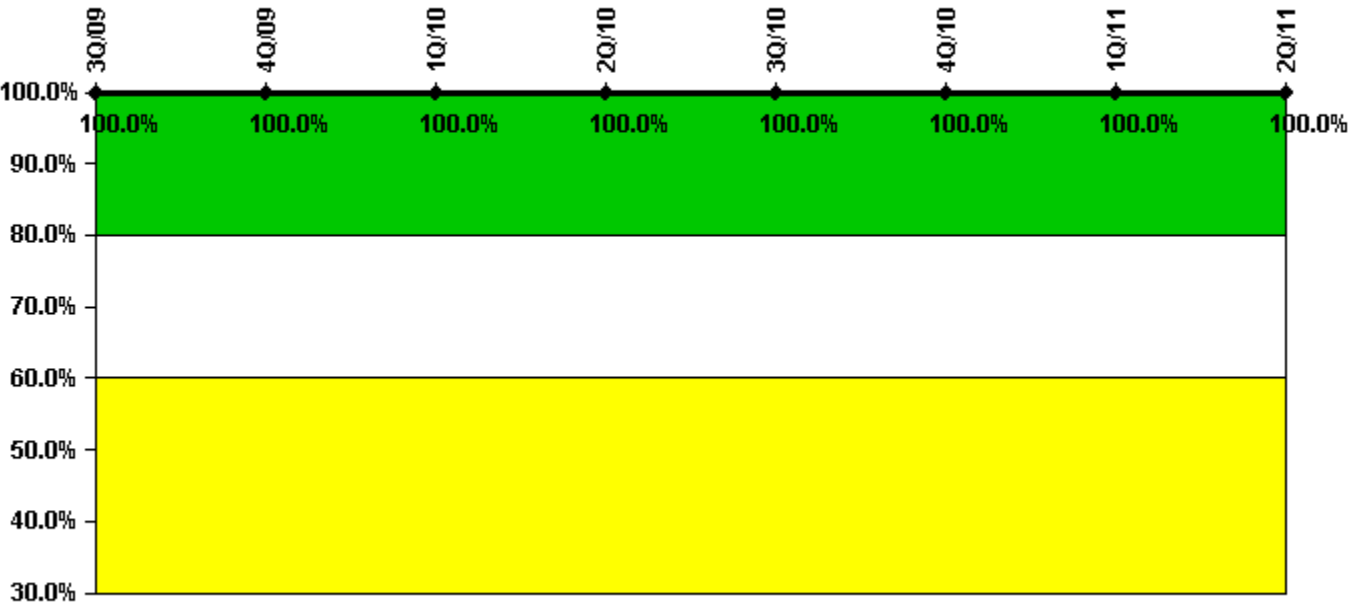
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful opportunities	23.0	22.0	89.0	28.0	23.0	32.0	76.0	50.0
Total opportunities	24.0	22.0	90.0	30.0	24.0	32.0	78.0	52.0
Indicator value	98.1%	98.4%	98.8%	98.2%	97.8%	98.0%	97.8%	97.4%

Licensee Comments: none

ERO Drill Participation



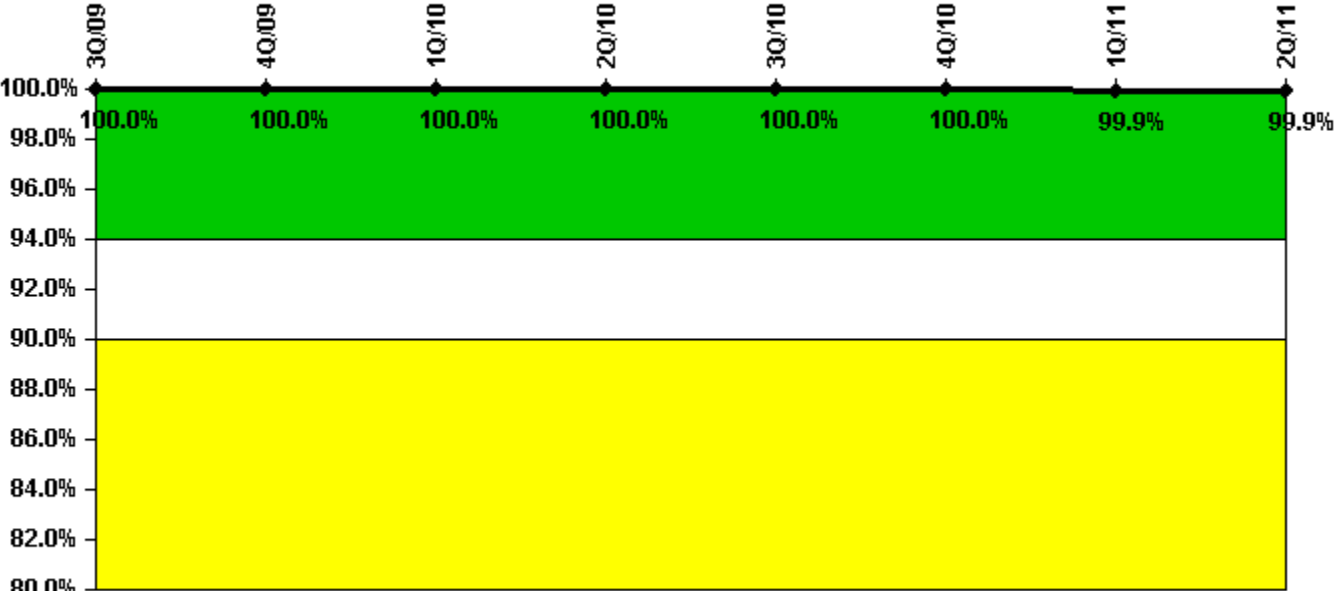
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Participating Key personnel	122.0	123.0	75.0	80.0	82.0	81.0	80.0	82.0
Total Key personnel	122.0	123.0	75.0	80.0	82.0	81.0	80.0	82.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



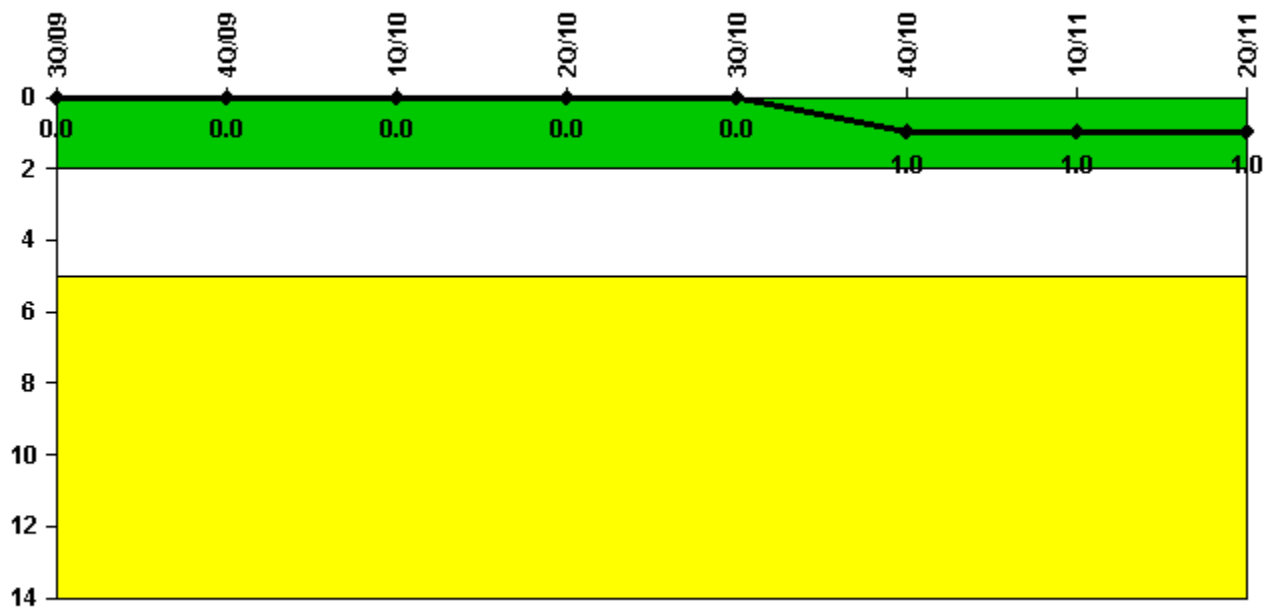
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful siren-tests	183	183	183	183	183	183	182	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



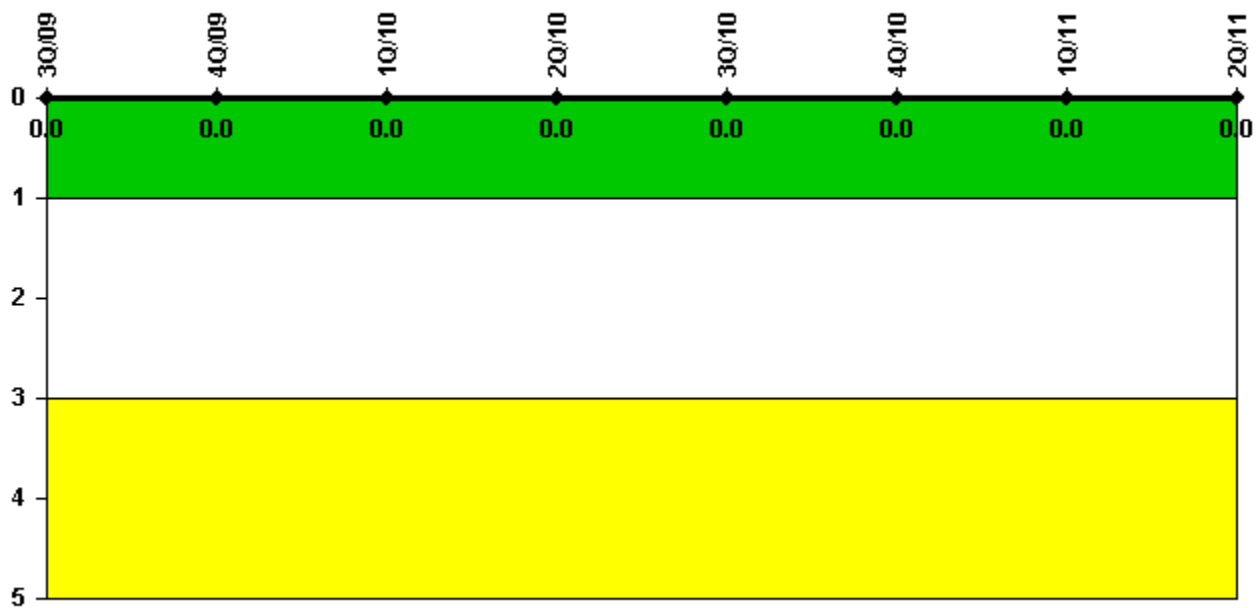
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

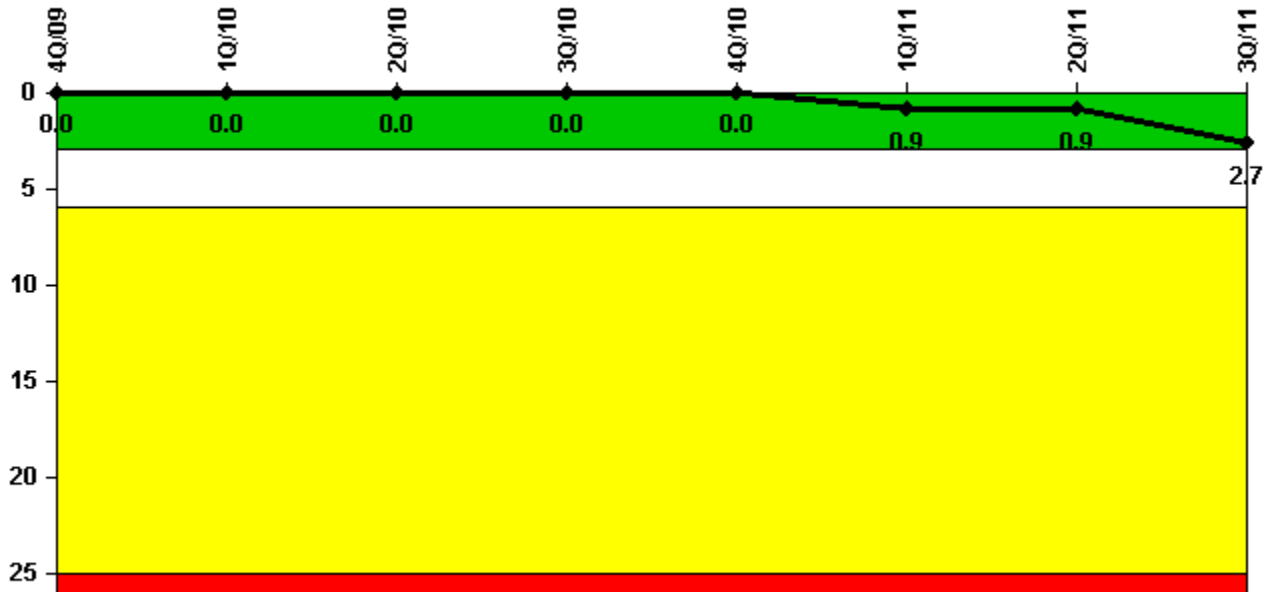
[Security](#) information not publicly available.

Palisades

3Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



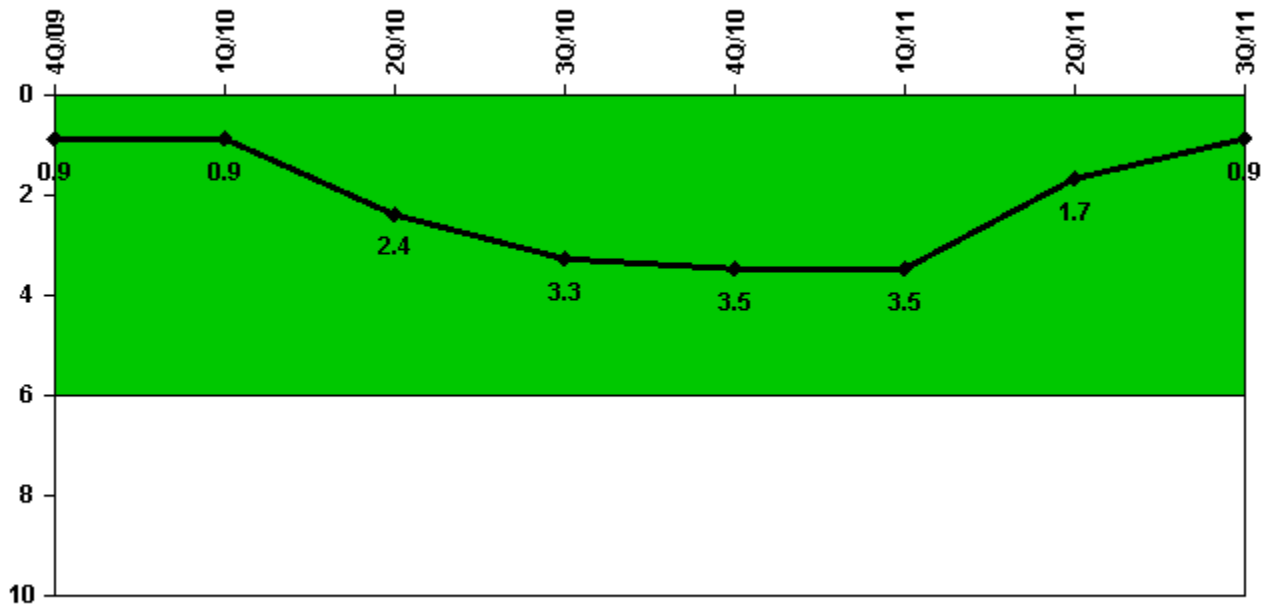
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned scrams	0	0	0	0	0	1.0	0	2.0
Critical hours	2209.0	2159.0	2031.9	2167.6	1594.9	2111.3	2184.0	1998.9
Indicator value	0	0	0	0	0	0.9	0.9	2.7

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



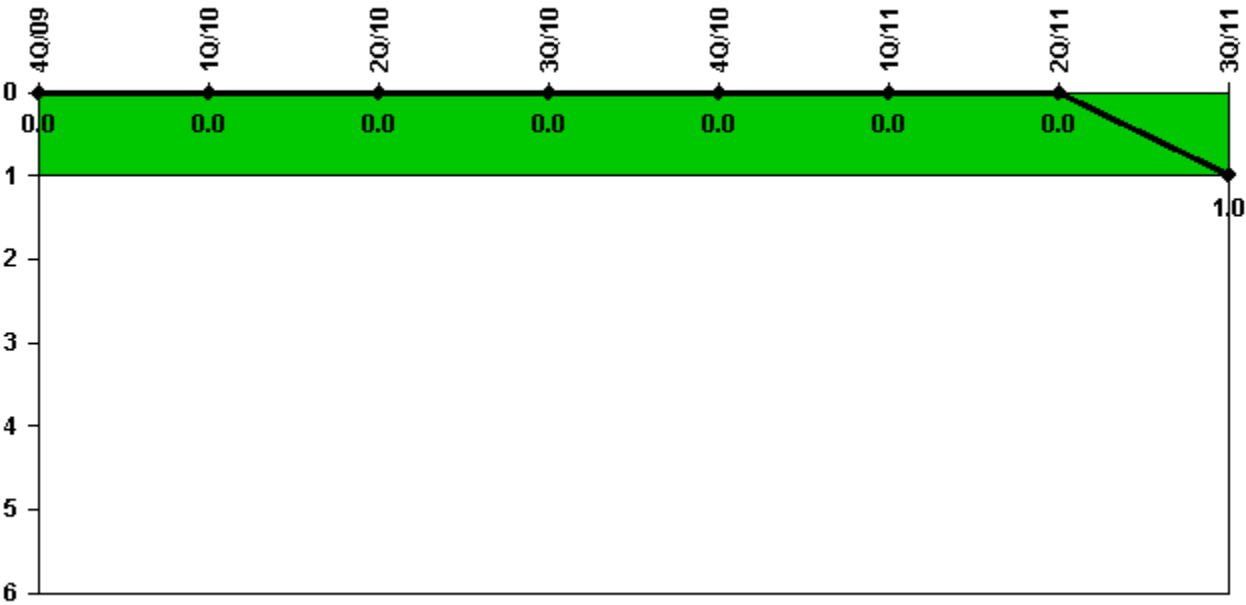
Thresholds: White > 6.0

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	1.0	2.0	1.0	0	1.0	0	0
Critical hours	2209.0	2159.0	2031.9	2167.6	1594.9	2111.3	2184.0	1998.9
Indicator value	0.9	0.9	2.4	3.3	3.5	3.5	1.7	0.9

Licensee Comments: none

Unplanned Scrams with Complications



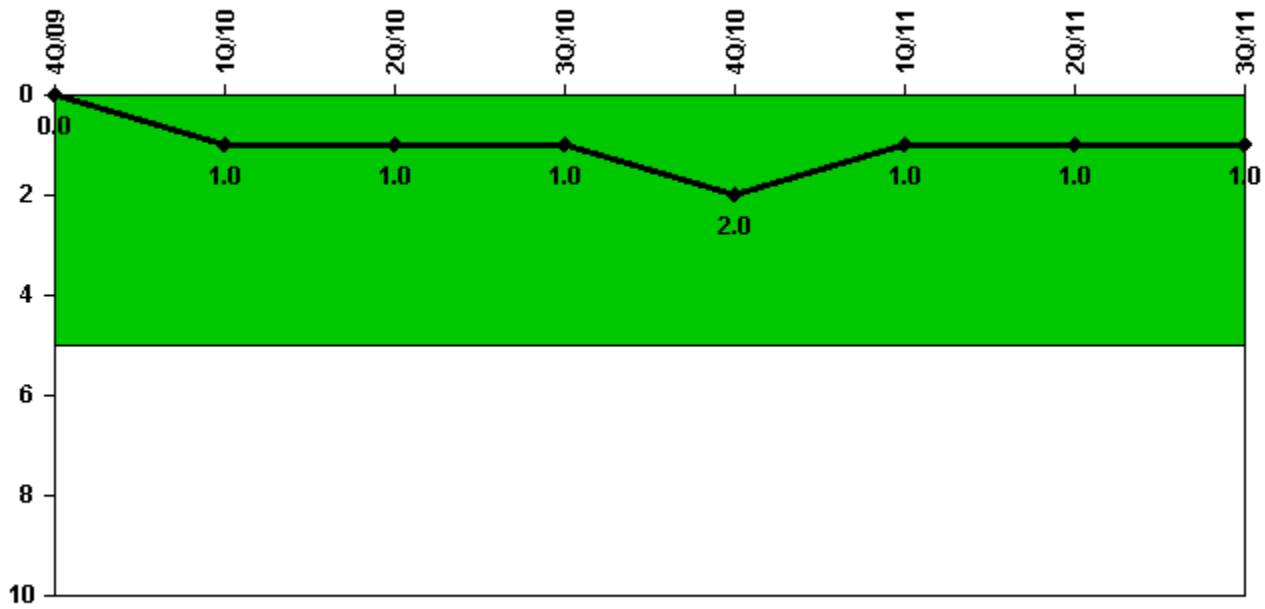
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Scrams with complications	0	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)



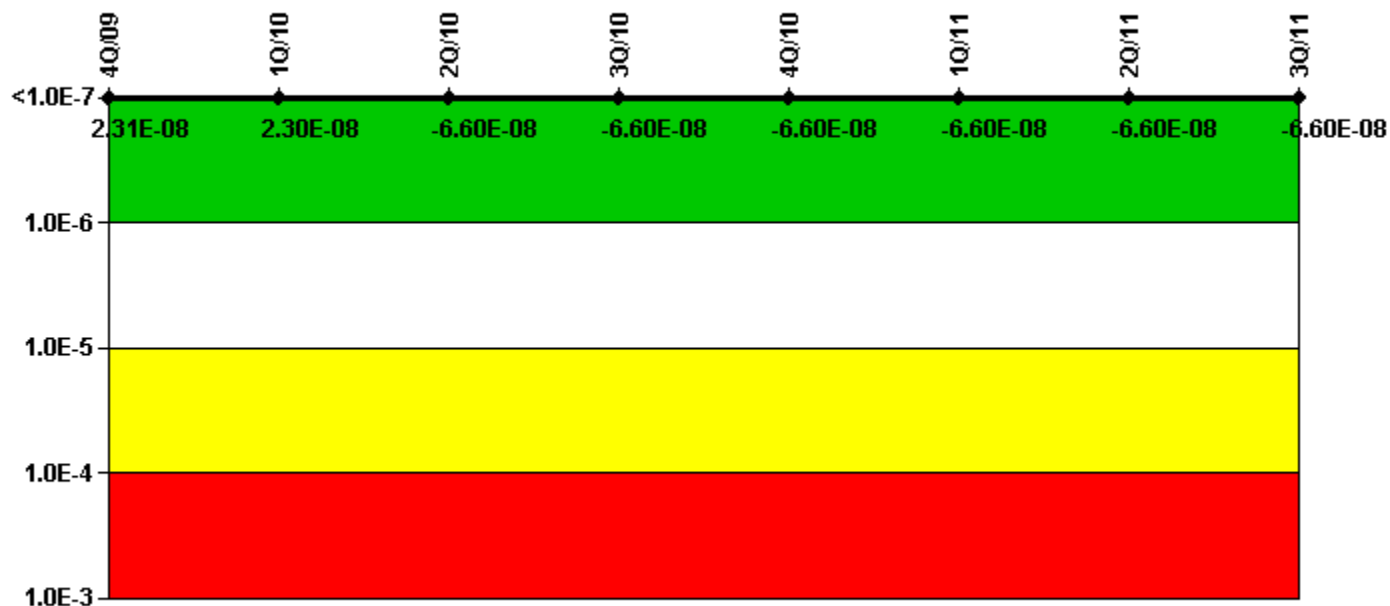
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

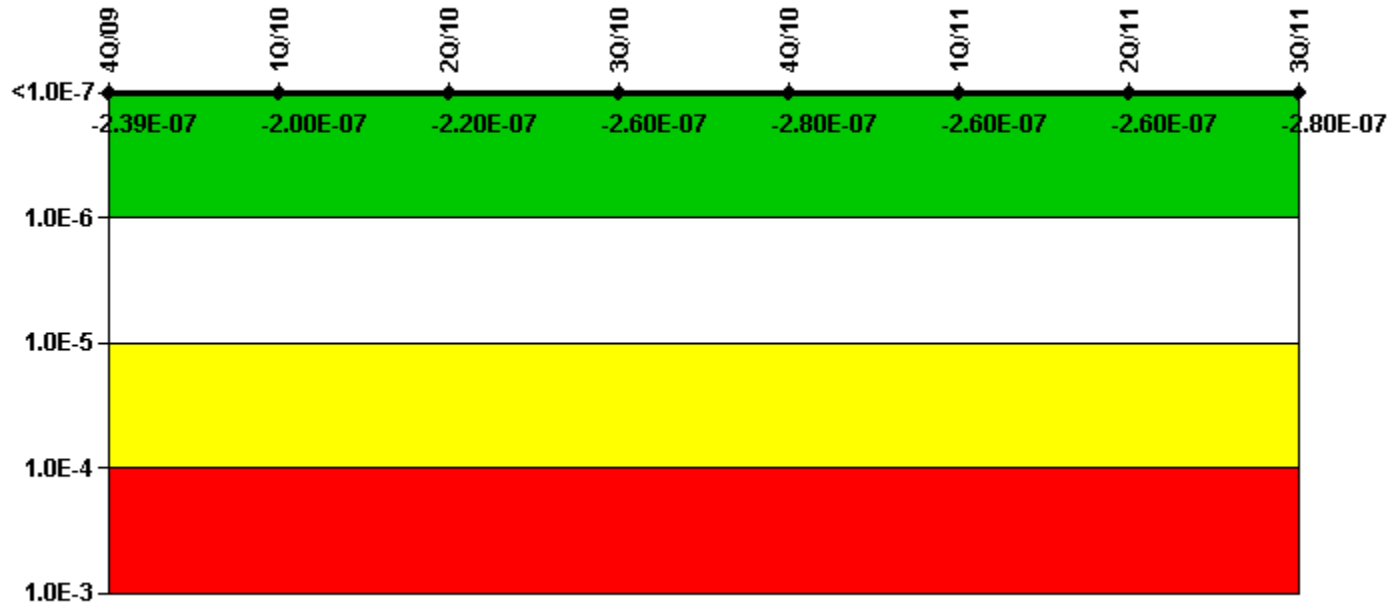
Notes

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)	2.90E-08	2.82E-08	-2.35E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08
URI (Δ CDF)	-5.90E-09	-5.21E-09	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.31E-08	2.30E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08

Licensee Comments:

3Q/11: Evaluation is pending of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage identified in April 2011. (Reference CR-PLP-2011-01933)

Mitigating Systems Performance Index, High Pressure Injection System



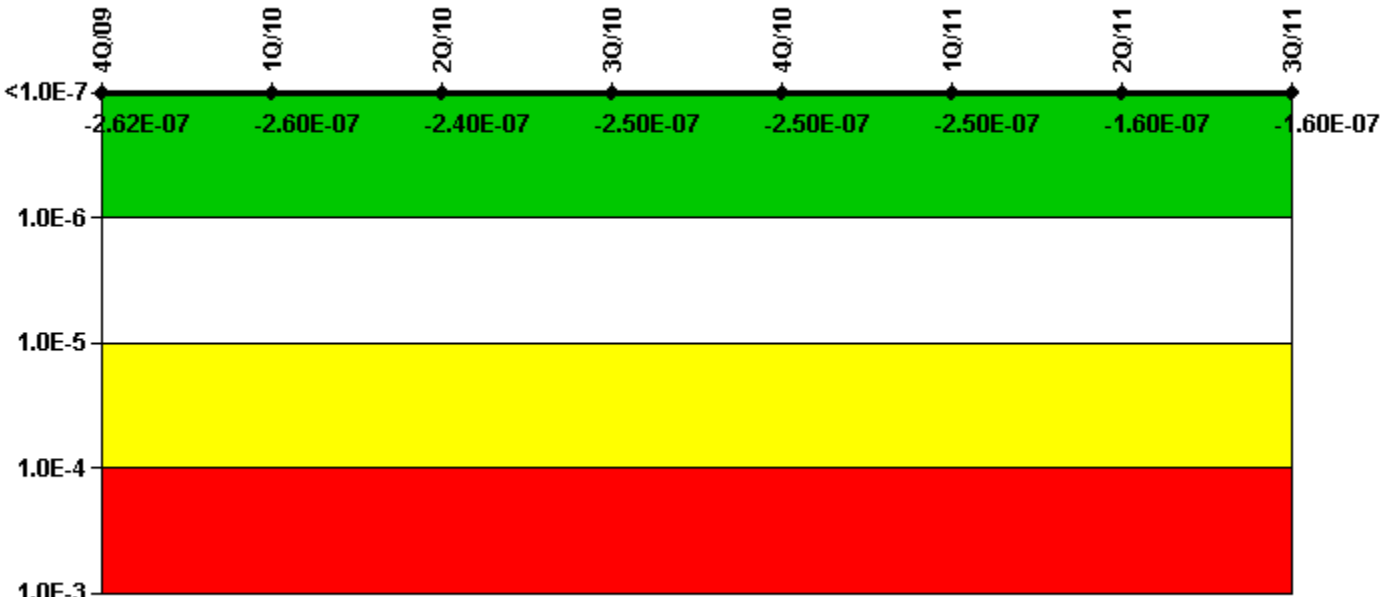
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	3.10E-08	6.09E-08	4.11E-08	8.73E-09	-1.38E-08	7.23E-09	9.52E-10	-1.30E-08
URI (ΔCDF)	-2.70E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.39E-07	-2.00E-07	-2.20E-07	-2.60E-07	-2.80E-07	-2.60E-07	-2.60E-07	-2.80E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



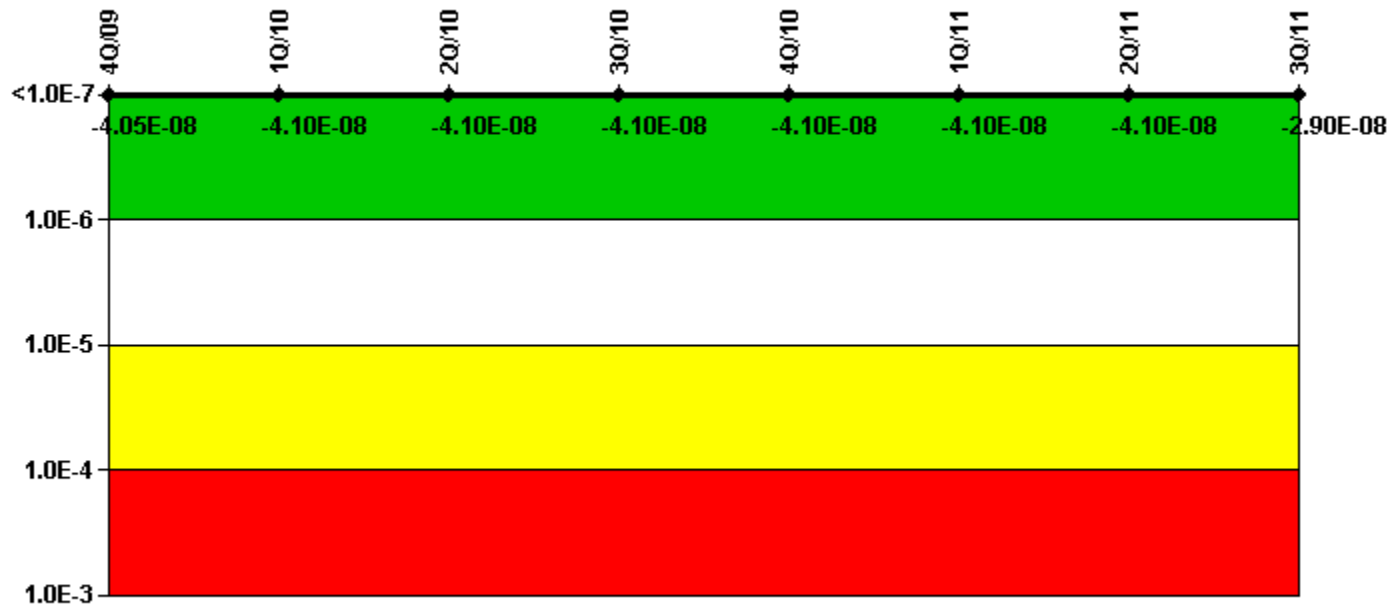
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	1.80E-08	2.03E-08	3.36E-08	3.15E-08	3.05E-08	3.21E-08	3.63E-08	3.73E-08
URI (ΔCDF)	-2.80E-07	-2.77E-07	-2.77E-07	-2.77E-07	-2.77E-07	-2.78E-07	-2.01E-07	-2.01E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.62E-07	-2.60E-07	-2.40E-07	-2.50E-07	-2.50E-07	-2.50E-07	-1.60E-07	-1.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



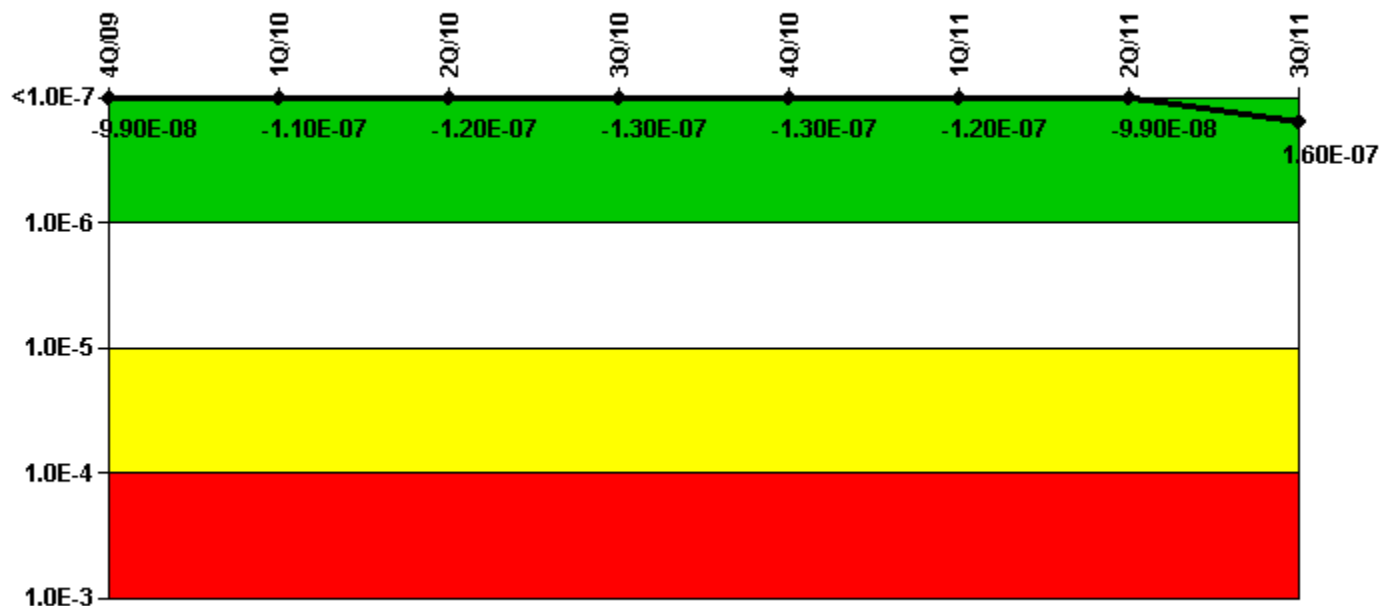
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	-4.80E-10	-3.39E-10	-3.02E-10	-3.51E-10	-4.08E-10	-3.96E-10	-4.52E-10	1.17E-08
URI (Δ CDF)	-4.00E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.05E-08	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08	-2.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



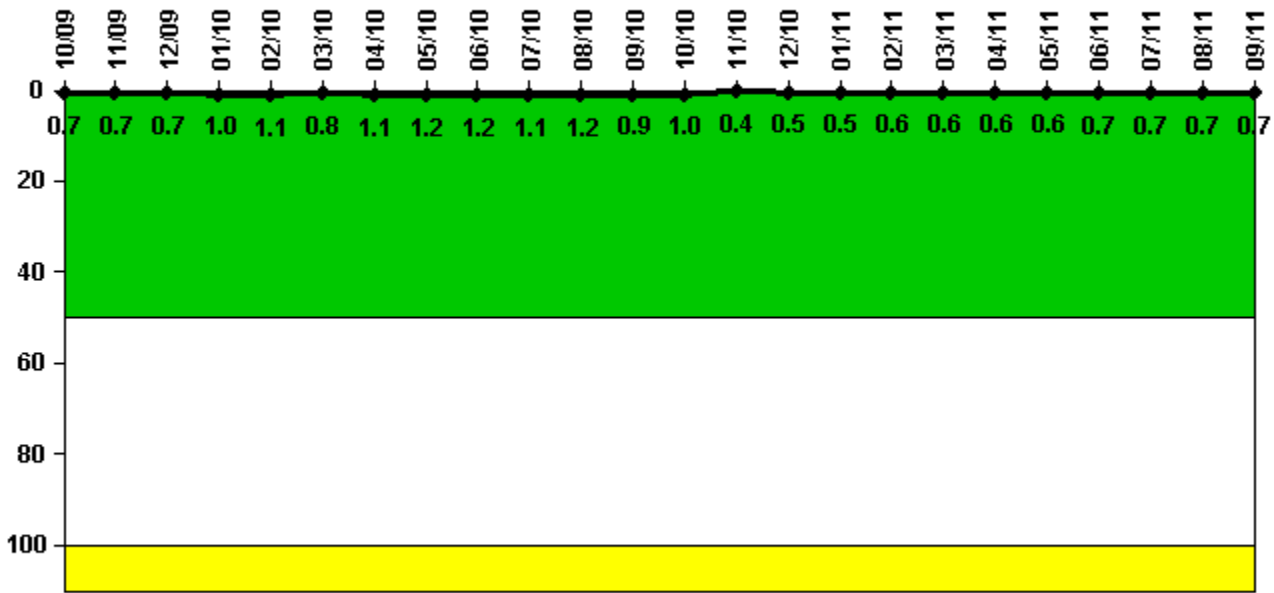
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	8.10E-08	7.05E-08	6.84E-08	5.75E-08	5.98E-08	6.53E-08	8.72E-08	2.98E-07
URI (ΔCDF)	-1.80E-07	-1.84E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.42E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.90E-08	-1.10E-07	-1.20E-07	-1.30E-07	-1.30E-07	-1.20E-07	-9.90E-08	1.60E-07

Licensee Comments: none

Reactor Coolant System Activity



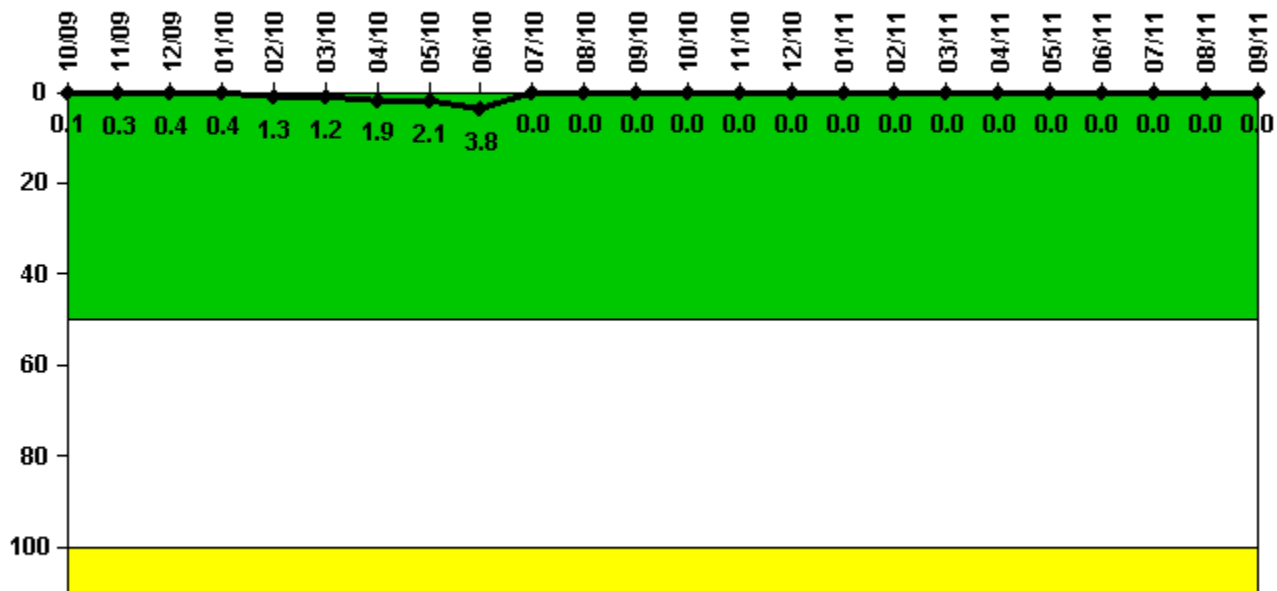
Thresholds: White > 50.0 Yellow > 100.0

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	0.007360	0.007120	0.007170	0.010300	0.011000	0.007520	0.010600	0.011600	0.012100	0.010500	0.012300	0.009200
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.7	0.7	0.7	1.0	1.1	0.8	1.1	1.2	1.2	1.1	1.2	0.9
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	0.010100	0.004300	0.005100	0.005050	0.005660	0.005970	0.005970	0.006320	0.006520	0.006810	0.007120	0.007170
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.0	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7

Licensee Comments: none

Reactor Coolant System Leakage



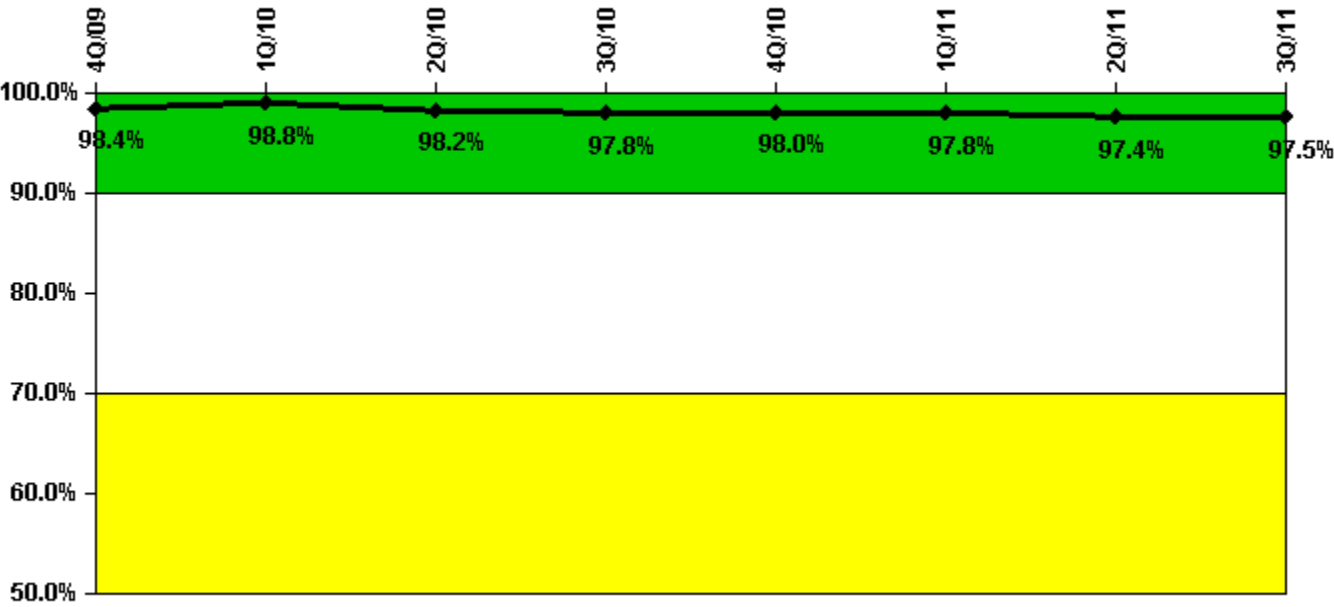
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.013	0.026	0.037	0.037	0.132	0.119	0.185	0.211	0.383	0.003	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	0.3	0.4	0.4	1.3	1.2	1.9	2.1	3.8	0	0	0
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	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



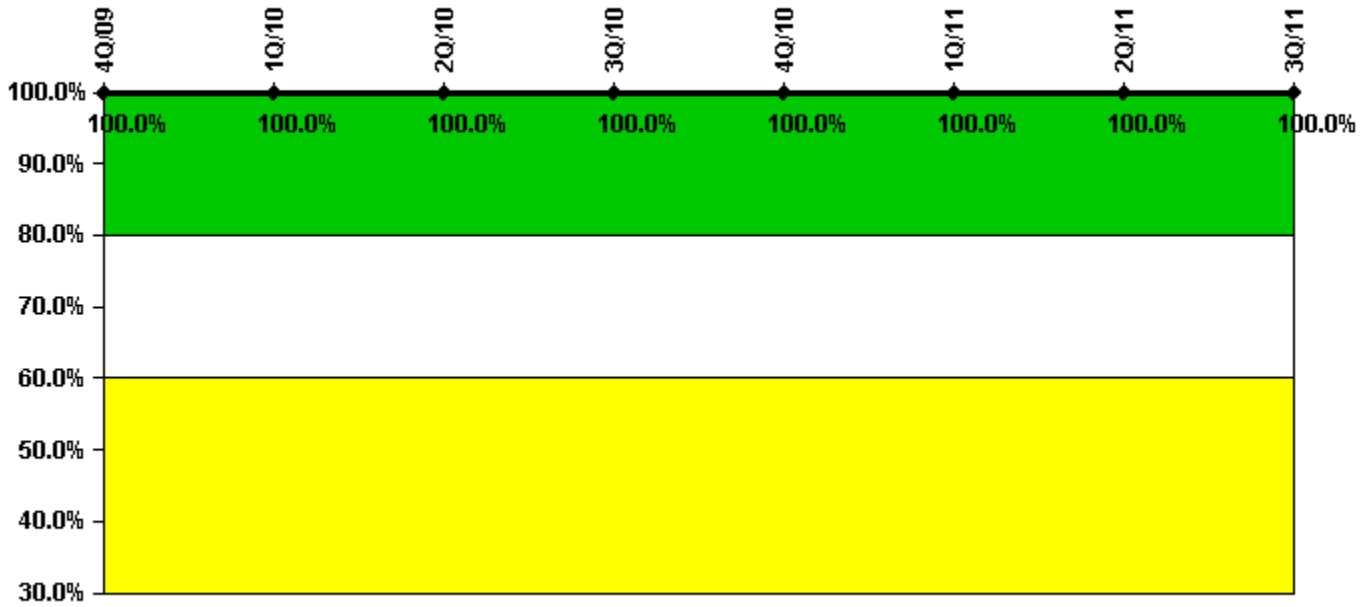
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful opportunities	22.0	89.0	28.0	23.0	32.0	76.0	50.0	24.0
Total opportunities	22.0	90.0	30.0	24.0	32.0	78.0	52.0	25.0
Indicator value	98.4%	98.8%	98.2%	97.8%	98.0%	97.8%	97.4%	97.5%

Licensee Comments: none

ERO Drill Participation



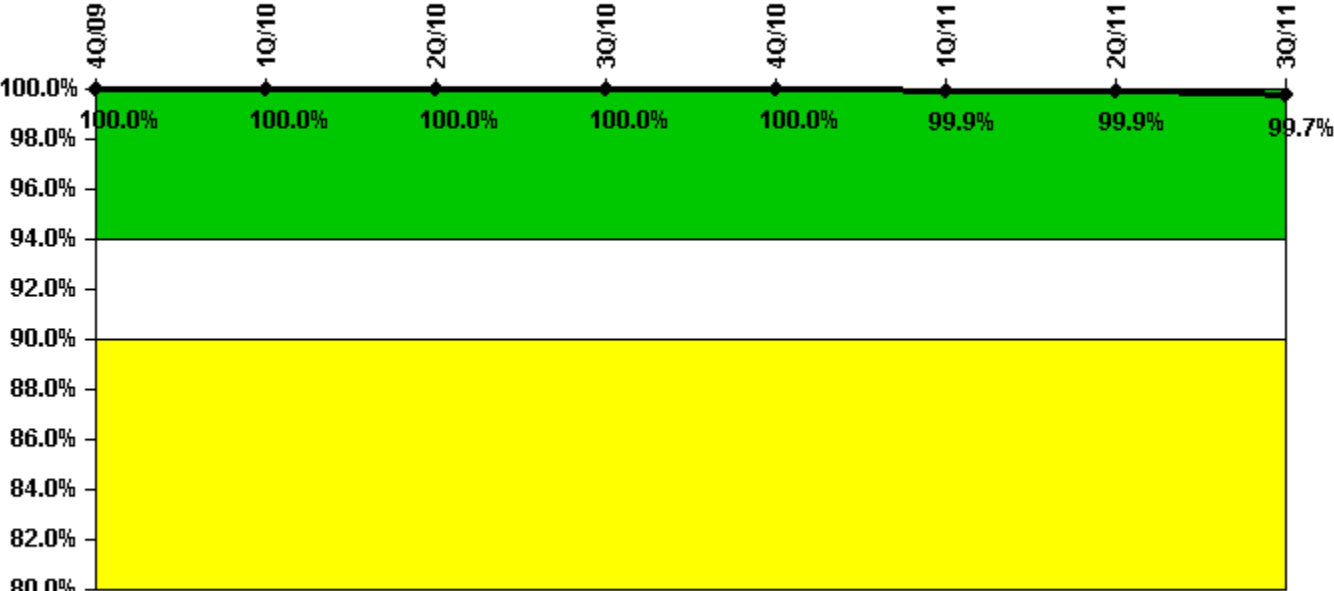
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Participating Key personnel	123.0	75.0	80.0	82.0	81.0	80.0	82.0	85.0
Total Key personnel	123.0	75.0	80.0	82.0	81.0	80.0	82.0	85.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



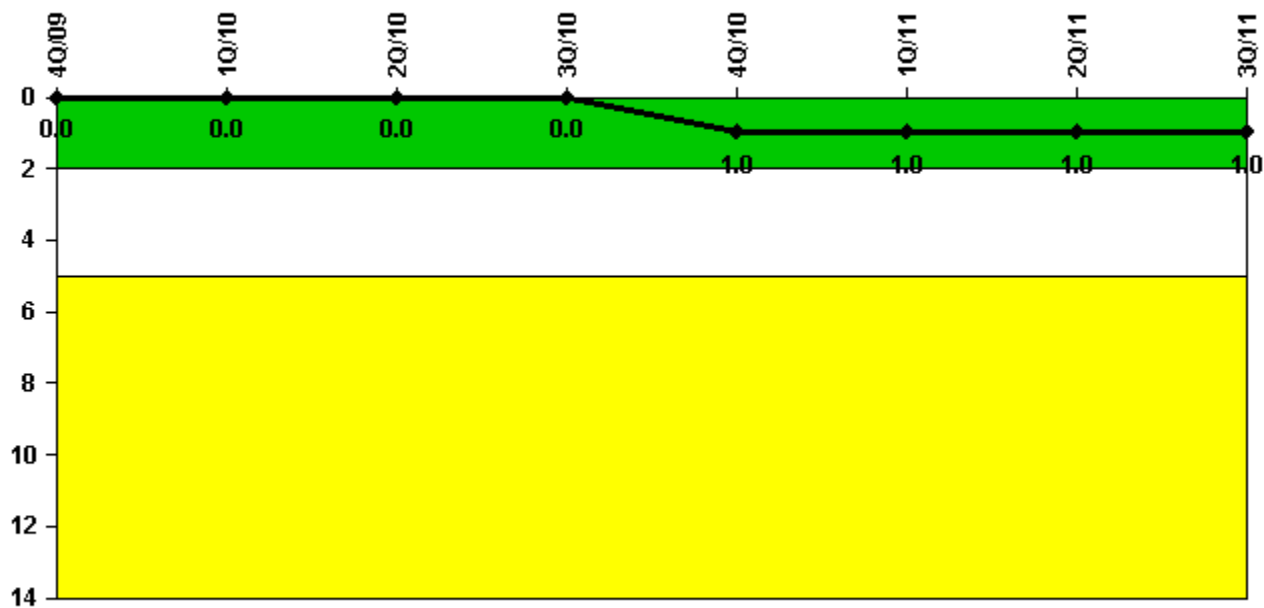
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful siren-tests	183	183	183	183	183	182	183	182
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	99.9%	99.9%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



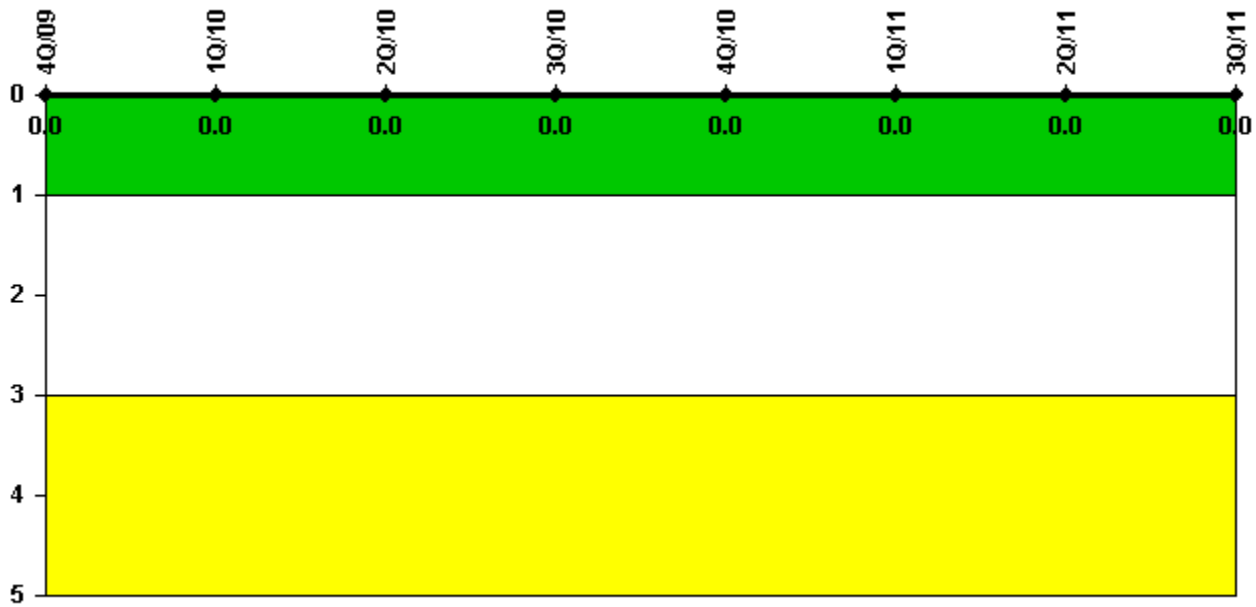
Thresholds: White > 2.0 Yellow > 5.0

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

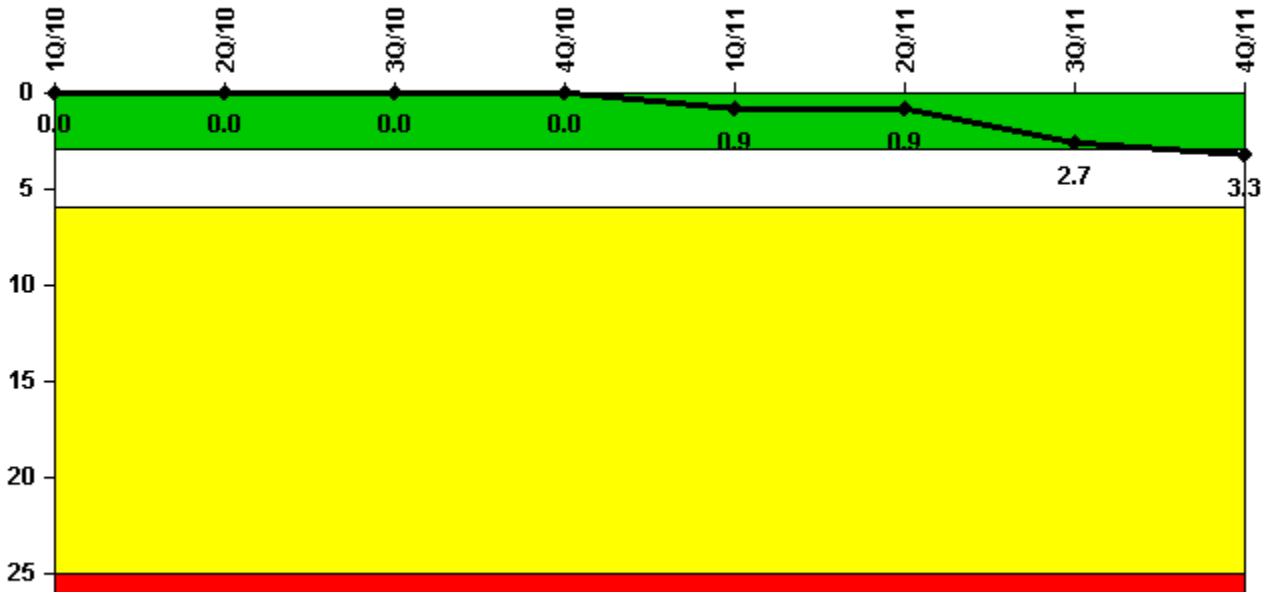
[Security](#) information not publicly available.

Palisades

4Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



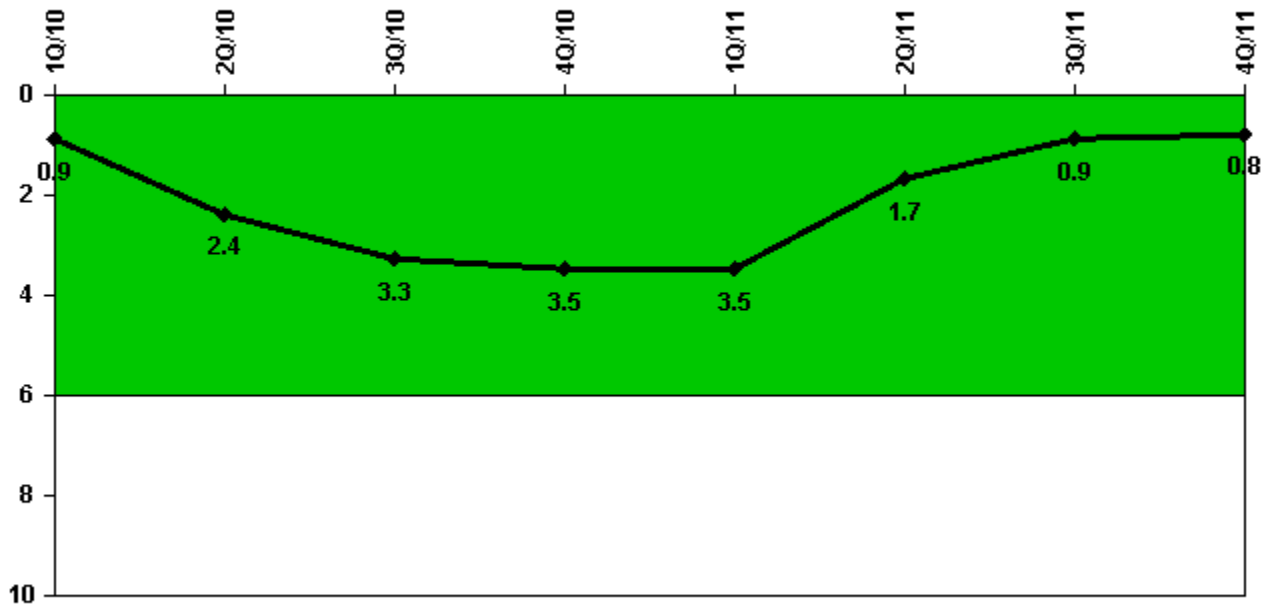
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	2.0	1.0
Critical hours	2159.0	2031.9	2167.6	1594.9	2111.3	2184.0	1998.9	2160.5
Indicator value	0	0	0	0	0.9	0.9	2.7	3.3

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



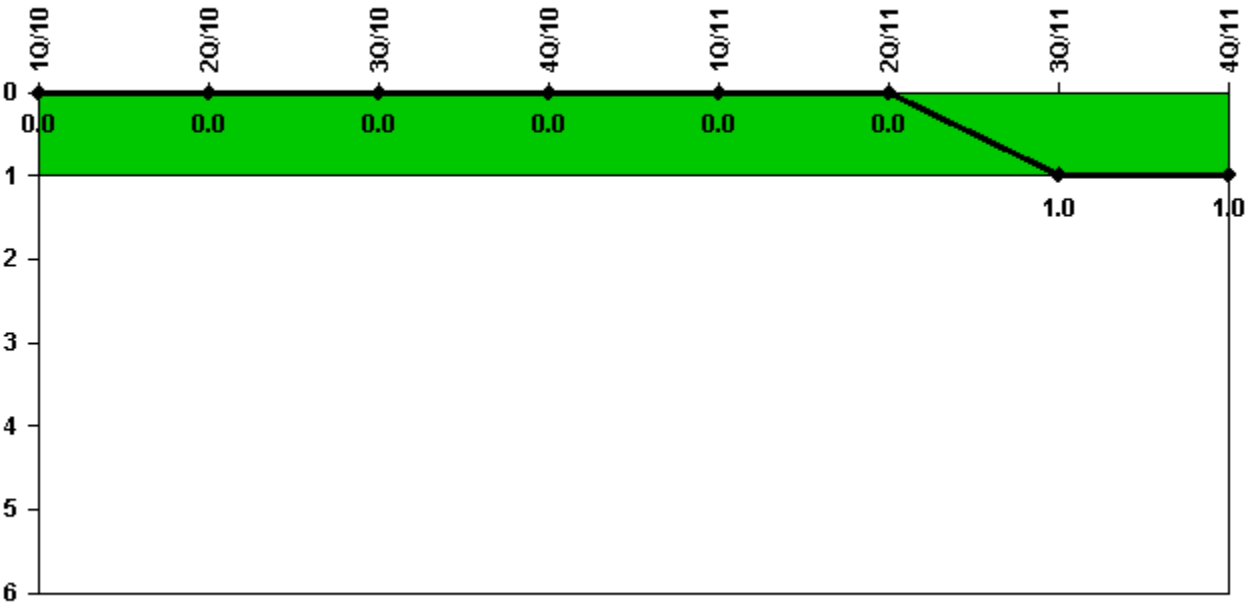
Thresholds: White > 6.0

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	1.0	2.0	1.0	0	1.0	0	0	0
Critical hours	2159.0	2031.9	2167.6	1594.9	2111.3	2184.0	1998.9	2160.5
Indicator value	0.9	2.4	3.3	3.5	3.5	1.7	0.9	0.8

Licensee Comments: none

Unplanned Scrams with Complications



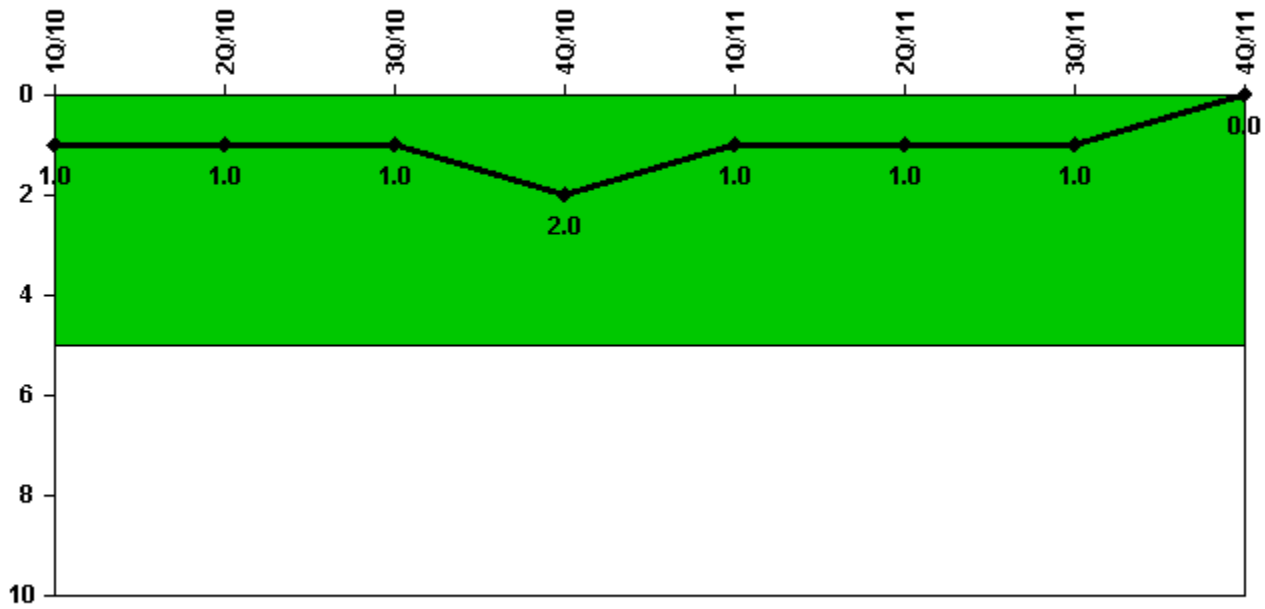
Thresholds: White > 1.0

Notes

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



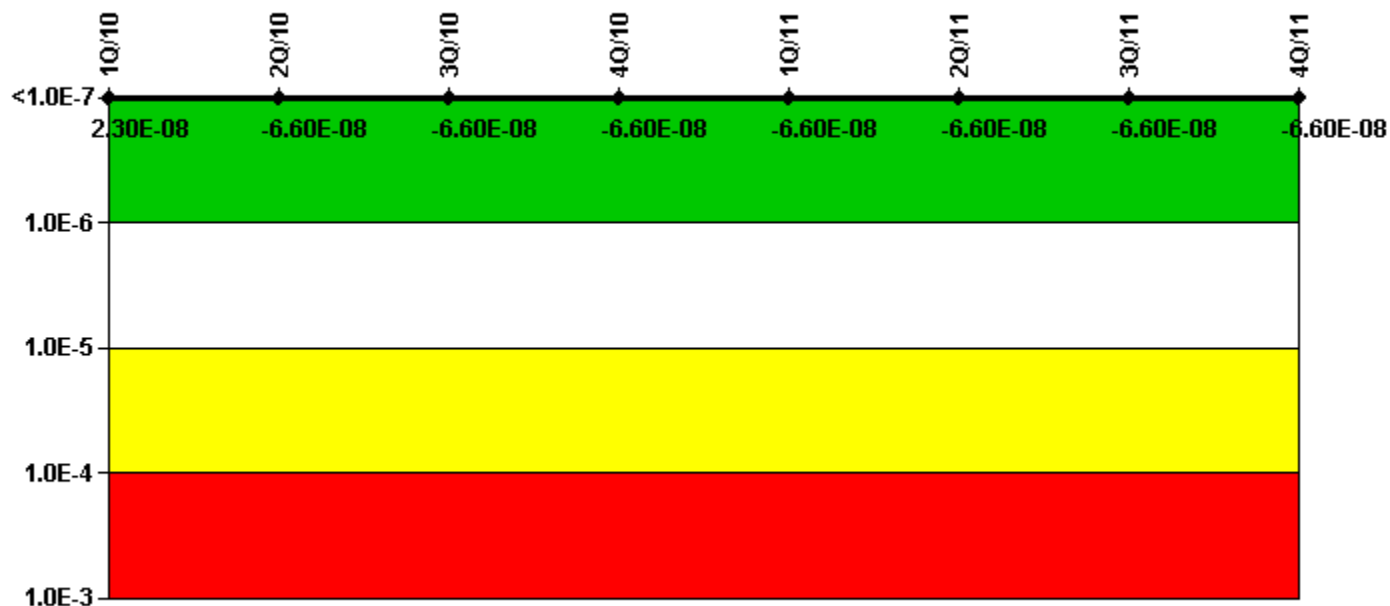
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

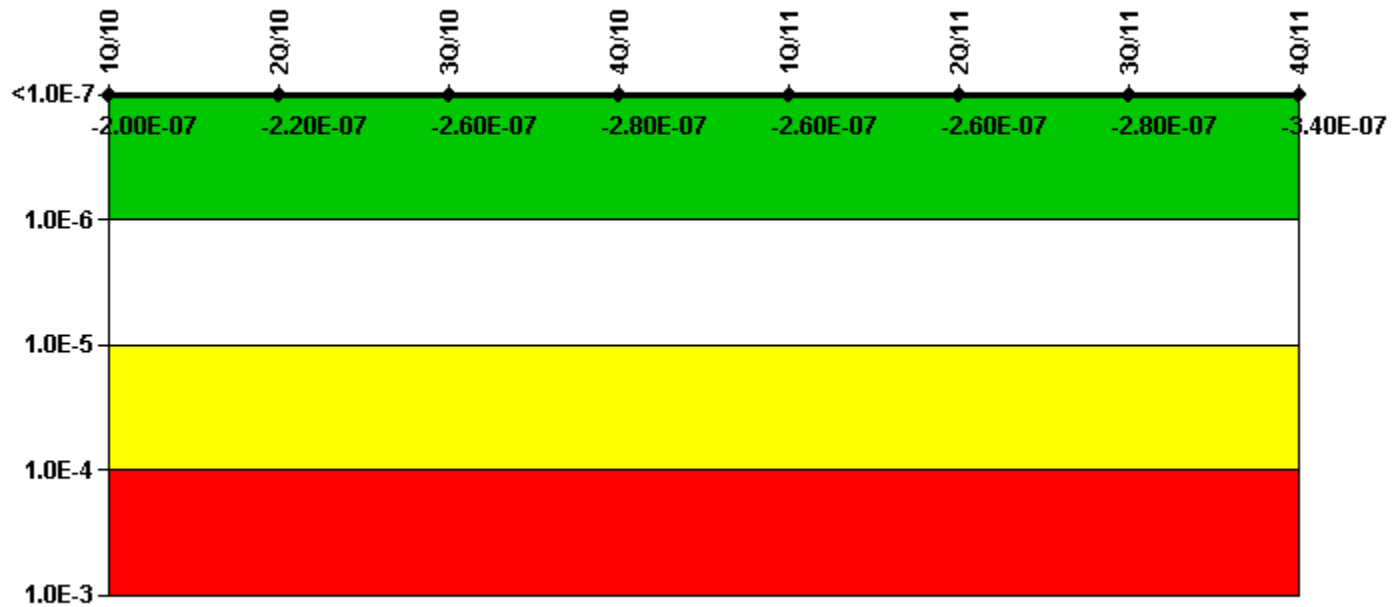
Notes

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)	2.82E-08	-2.35E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08
URI (Δ CDF)	-5.21E-09	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.30E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08

Licensee Comments:

4Q/11: Evaluation of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage from April 2011 concluded No MSPI Failure occurred. (Reference CR-PLP-2011-01933)

Mitigating Systems Performance Index, High Pressure Injection System



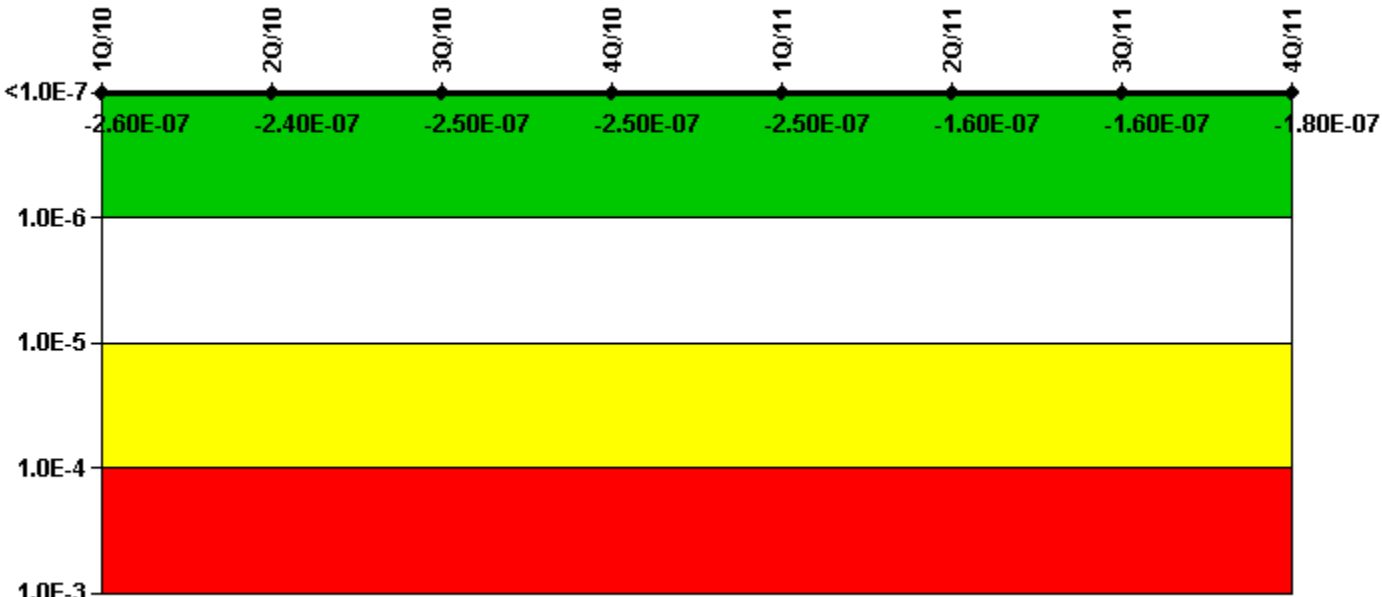
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	6.09E-08	4.11E-08	8.73E-09	-1.38E-08	7.23E-09	9.52E-10	-1.30E-08	-7.45E-08
URI (Δ CDF)	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-07	-2.20E-07	-2.60E-07	-2.80E-07	-2.60E-07	-2.60E-07	-2.80E-07	-3.40E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



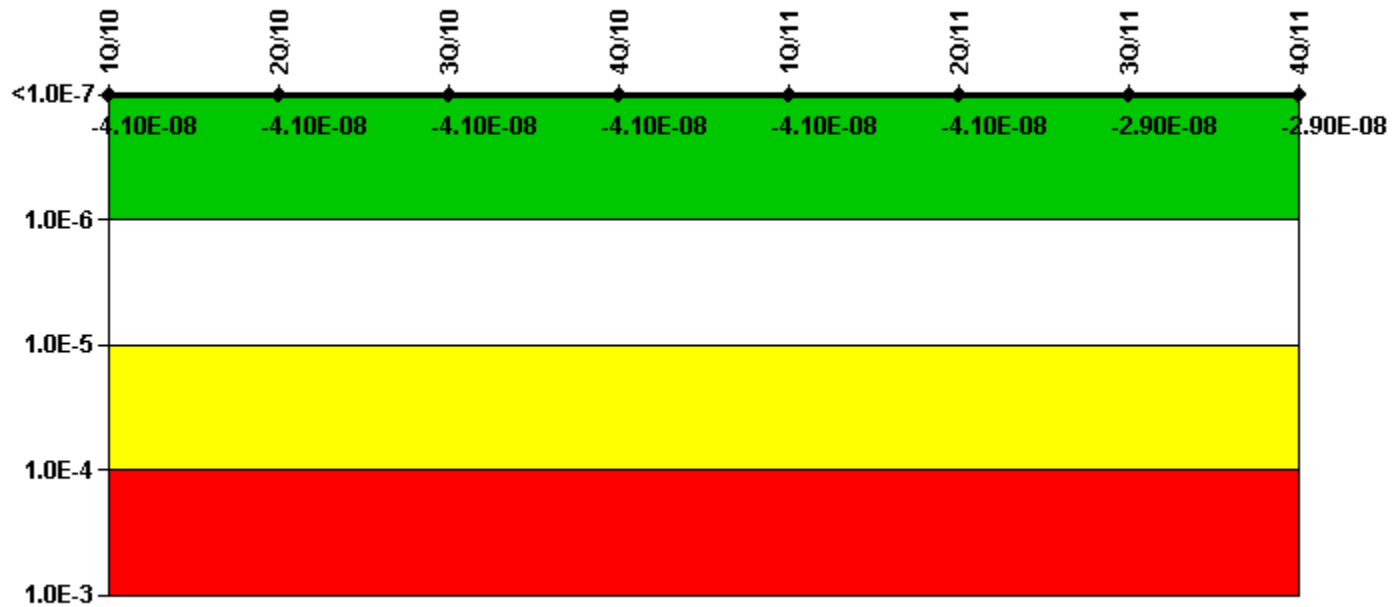
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	2.03E-08	3.36E-08	3.15E-08	3.05E-08	3.21E-08	3.63E-08	3.73E-08	1.92E-08
URI (ΔCDF)	-2.77E-07	-2.77E-07	-2.77E-07	-2.77E-07	-2.78E-07	-2.01E-07	-2.01E-07	-2.01E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.60E-07	-2.40E-07	-2.50E-07	-2.50E-07	-2.50E-07	-1.60E-07	-1.60E-07	-1.80E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



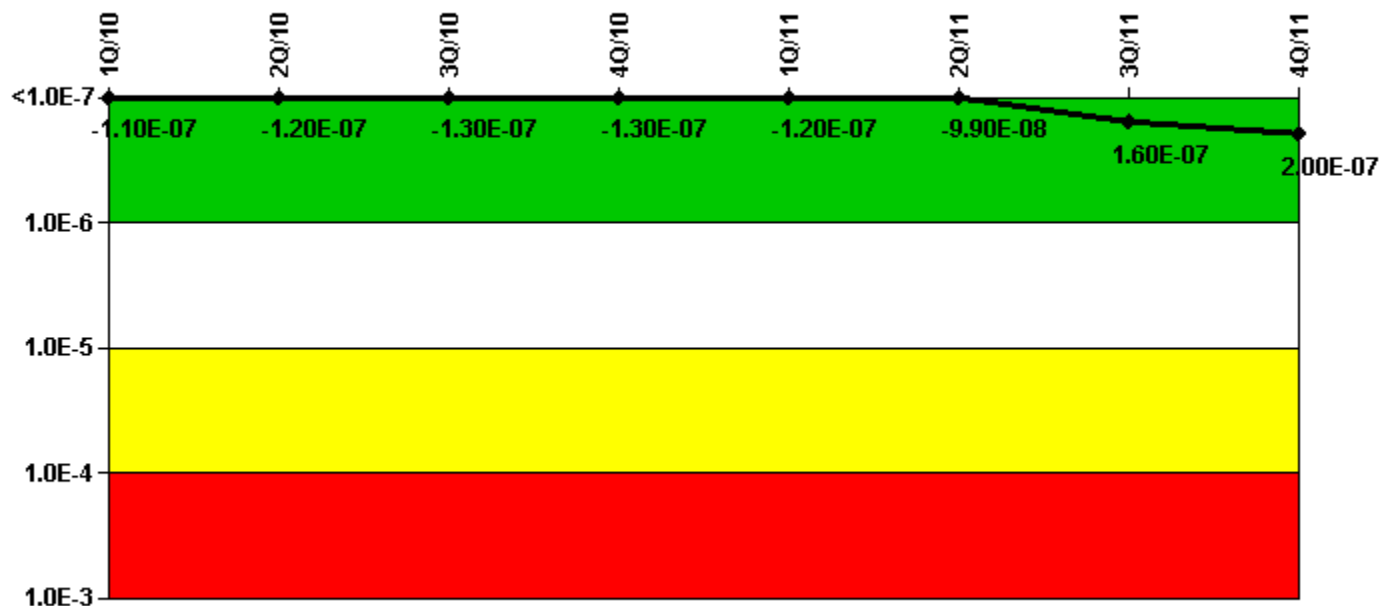
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	-3.39E-10	-3.02E-10	-3.51E-10	-4.08E-10	-3.96E-10	-4.52E-10	1.17E-08	1.11E-08
URI (Δ CDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08	-2.90E-08	-2.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



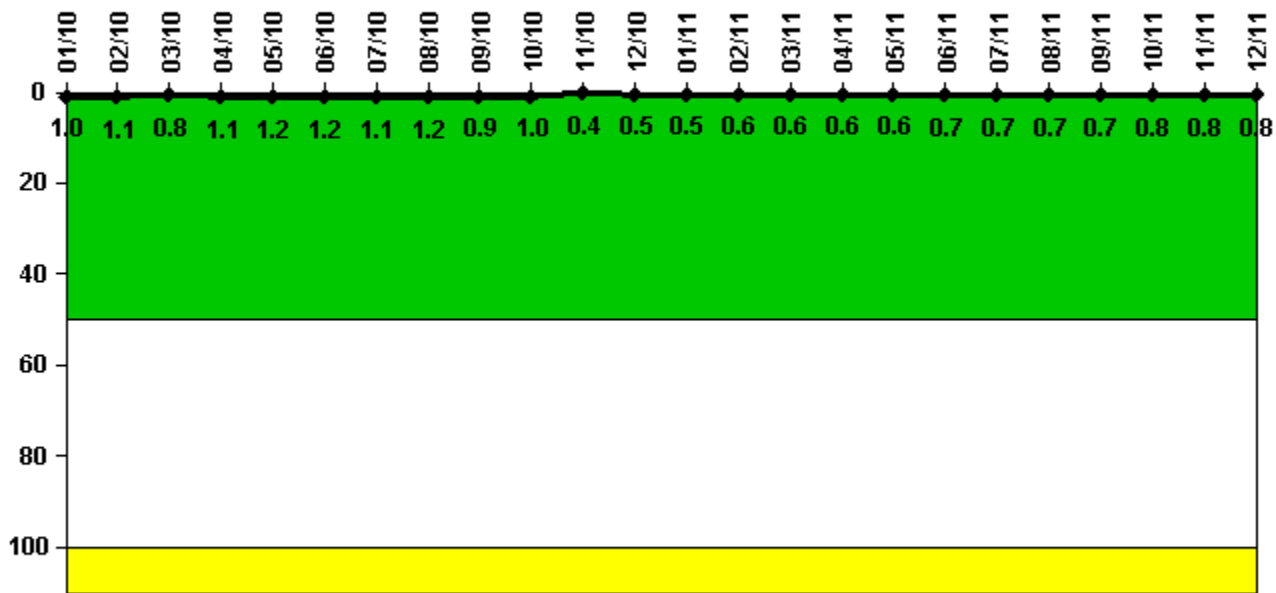
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	7.05E-08	6.84E-08	5.75E-08	5.98E-08	6.53E-08	8.72E-08	2.98E-07	3.44E-07
URI (ΔCDF)	-1.84E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.42E-07	-1.42E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-07	-1.20E-07	-1.30E-07	-1.30E-07	-1.20E-07	-9.90E-08	1.60E-07	2.00E-07

Licensee Comments: none

Reactor Coolant System Activity



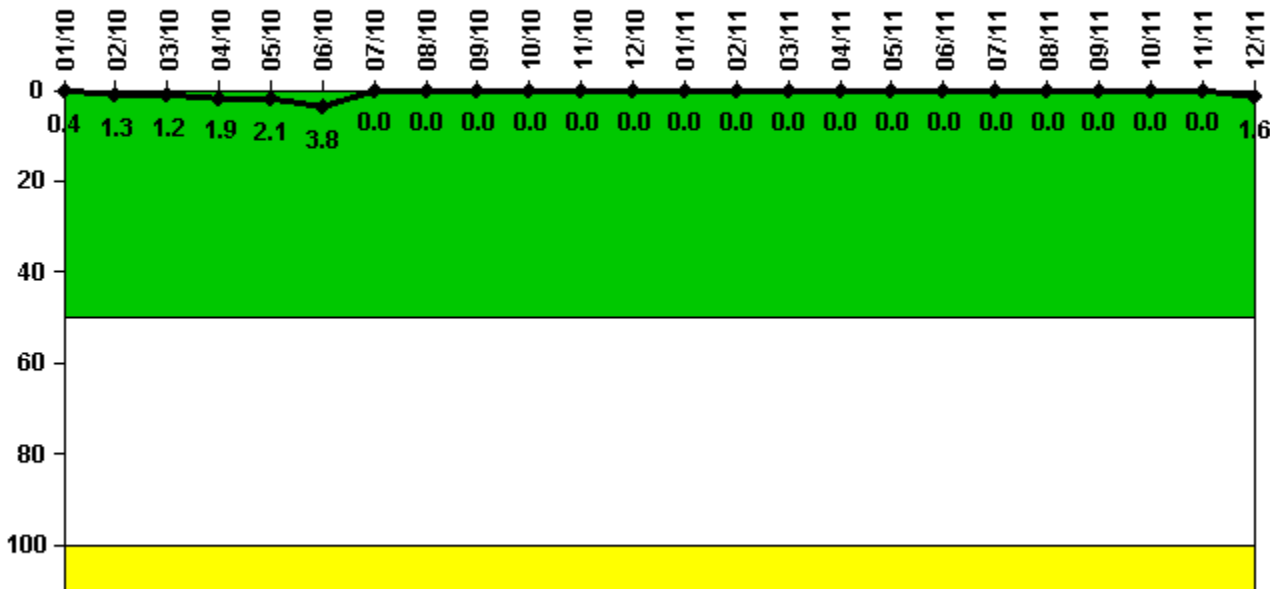
Thresholds: White > 50.0 Yellow > 100.0

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	0.010300	0.011000	0.007520	0.010600	0.011600	0.012100	0.010500	0.012300	0.009200	0.010100	0.004300	0.005100
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.0	1.1	0.8	1.1	1.2	1.2	1.1	1.2	0.9	1.0	0.4	0.5
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	0.005050	0.005660	0.005970	0.005970	0.006320	0.006520	0.006810	0.007120	0.007170	0.007630	0.007830	0.007790
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.8

Licensee Comments: none

Reactor Coolant System Leakage



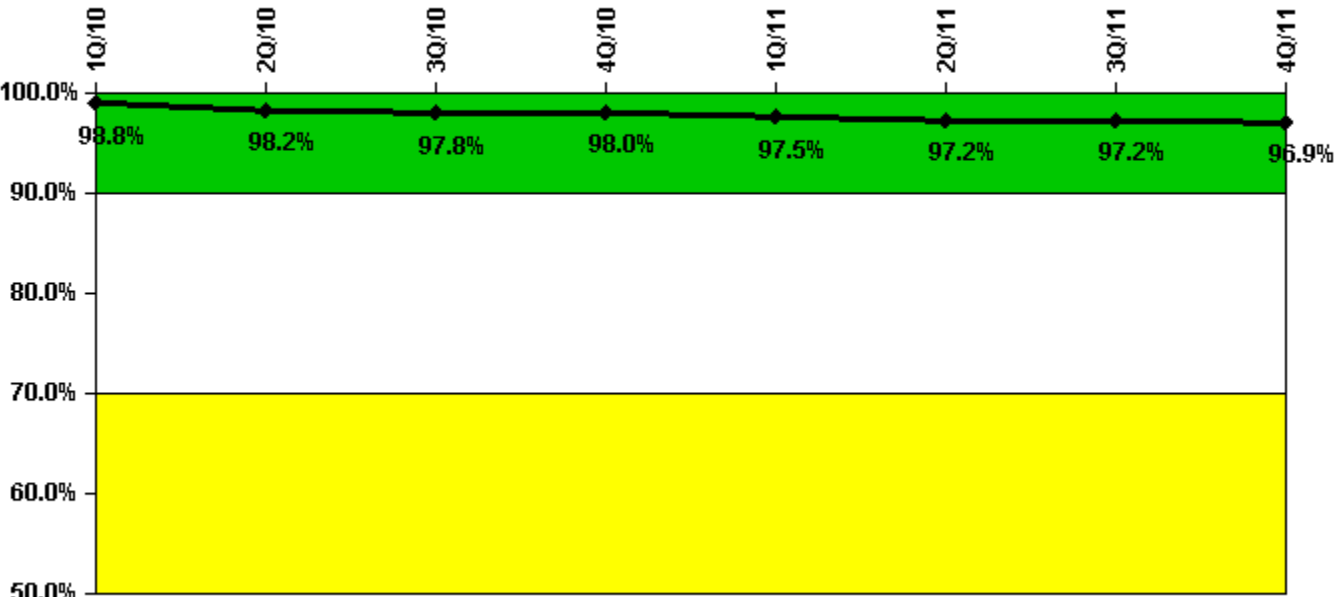
Thresholds: White > 50.0 Yellow > 100.0

Notes

[illegible]

Licensee Comments: none

Drill/Exercise Performance



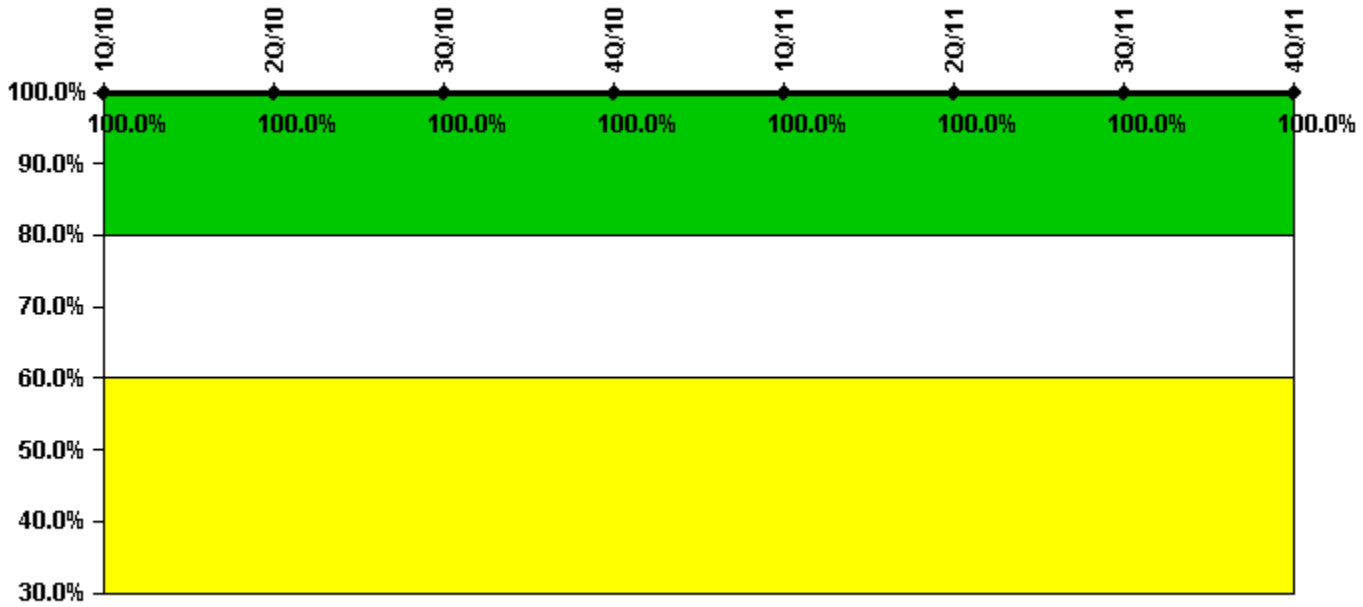
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful opportunities	89.0	28.0	23.0	32.0	77.0	50.0	24.0	19.0
Total opportunities	90.0	30.0	24.0	32.0	80.0	52.0	25.0	20.0
Indicator value	98.8%	98.2%	97.8%	98.0%	97.5%	97.2%	97.2%	96.9%

Licensee Comments: none

ERO Drill Participation



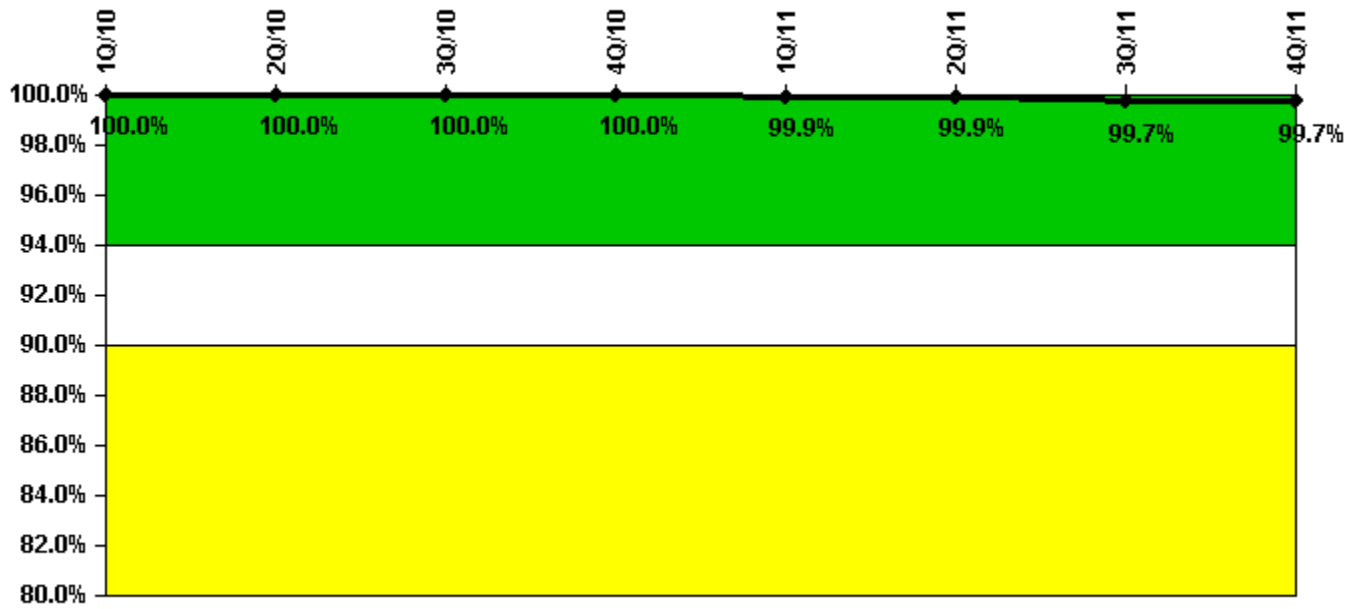
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Participating Key personnel	75.0	80.0	82.0	81.0	80.0	82.0	85.0	87.0
Total Key personnel	75.0	80.0	82.0	81.0	80.0	82.0	85.0	87.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



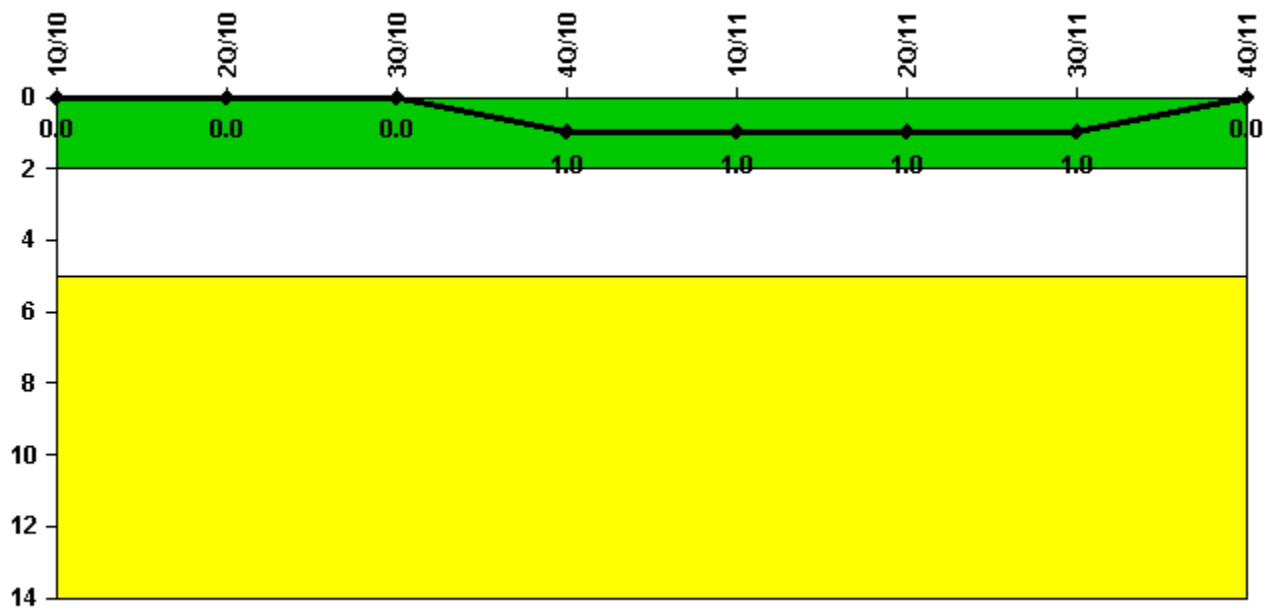
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful siren-tests	183	183	183	183	182	183	182	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	100.0%	100.0%	100.0%	100.0%	99.9%	99.9%	99.7%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



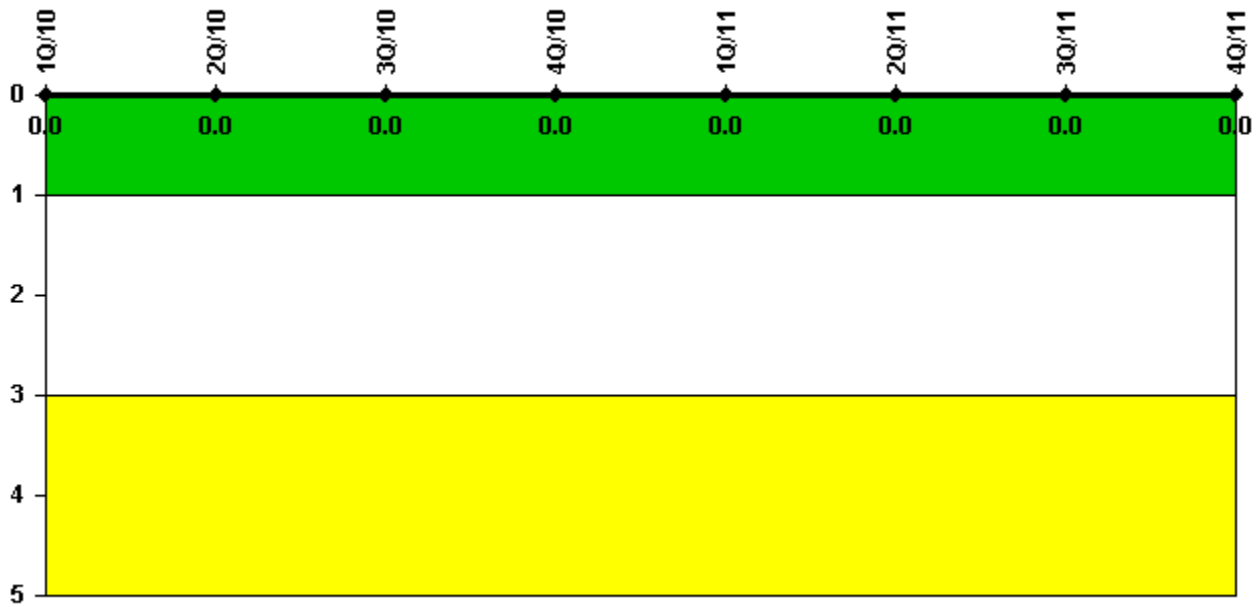
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

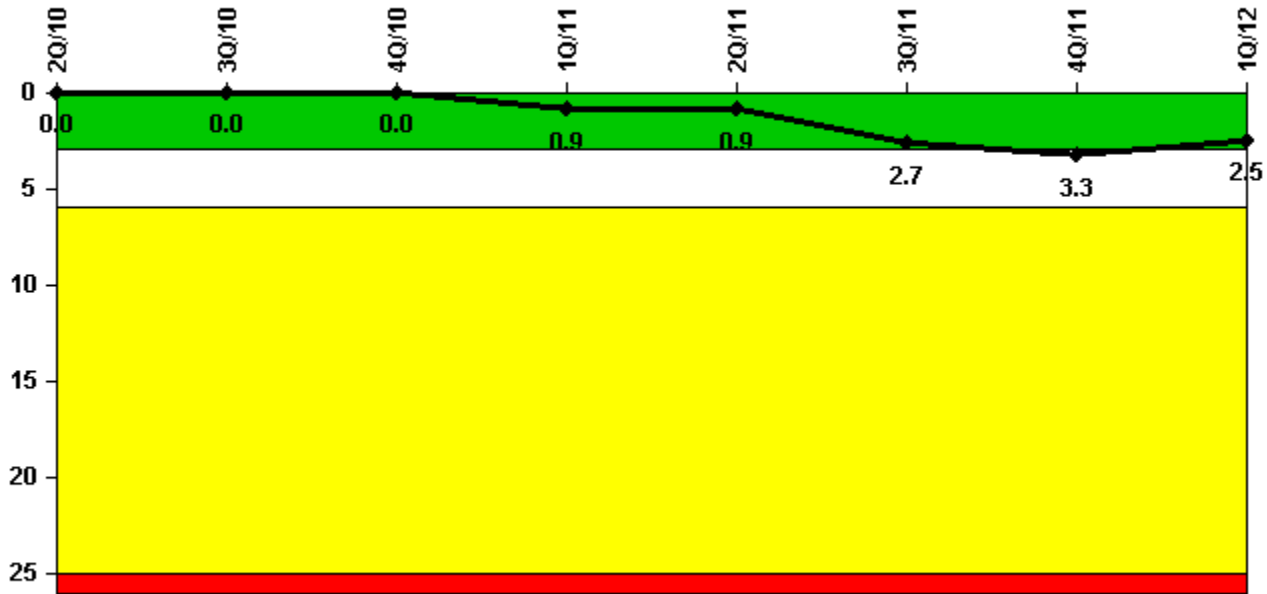
[Security](#) information not publicly available.

Palisades

1Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



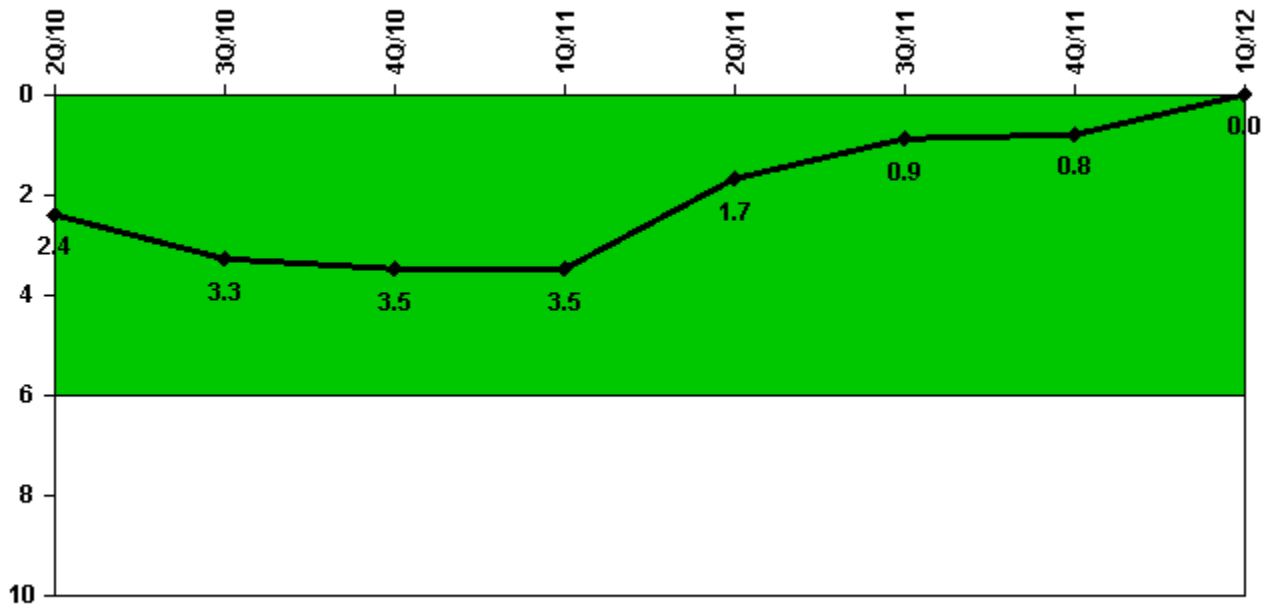
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	2.0	1.0	0
Critical hours	2031.9	2167.6	1594.9	2111.3	2184.0	1998.9	2160.5	2108.4
Indicator value	0	0	0	0.9	0.9	2.7	3.3	2.5

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



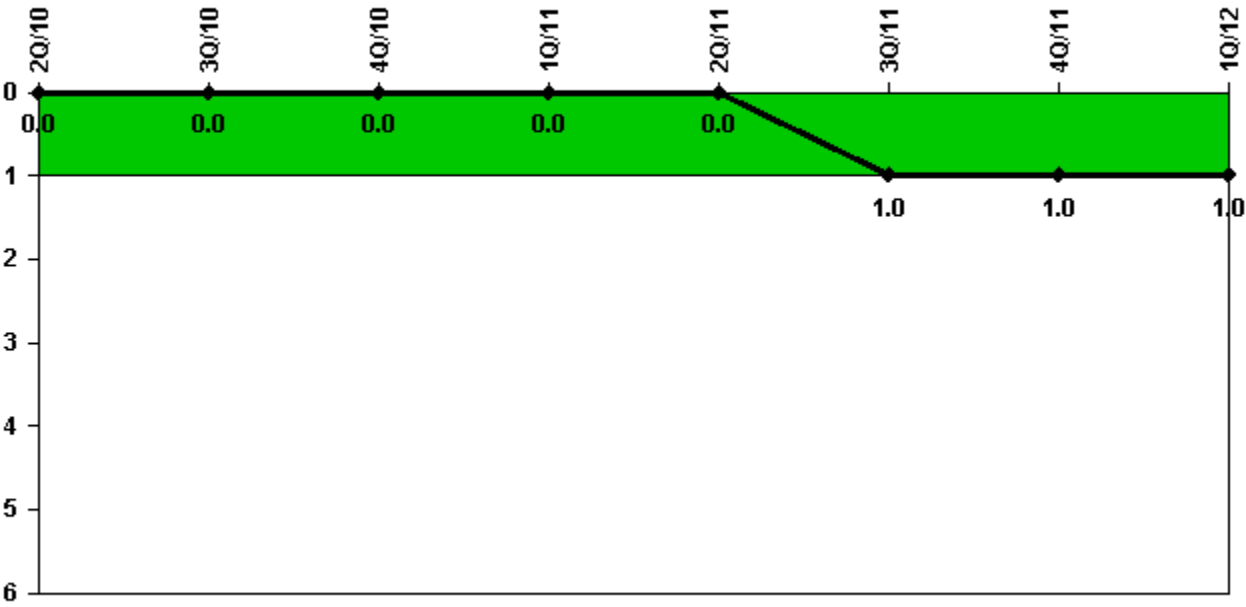
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	2.0	1.0	0	1.0	0	0	0	0
Critical hours	2031.9	2167.6	1594.9	2111.3	2184.0	1998.9	2160.5	2108.4
Indicator value	2.4	3.3	3.5	3.5	1.7	0.9	0.8	0

Licensee Comments: none

Unplanned Scrams with Complications



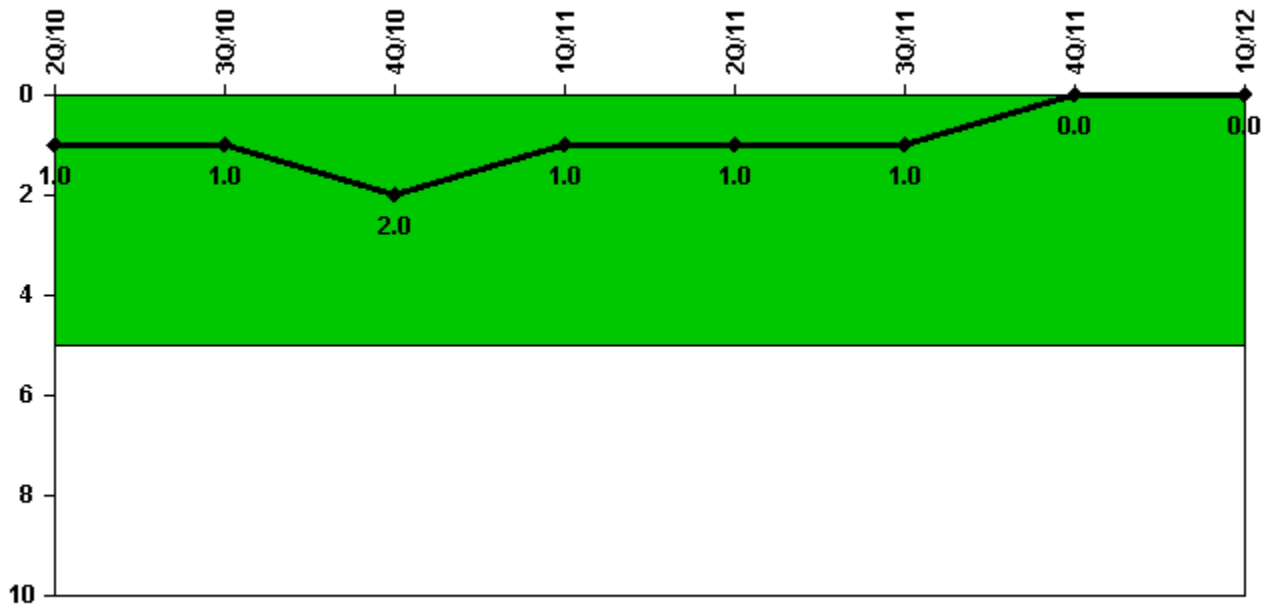
Thresholds: White > 1.0

Notes

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



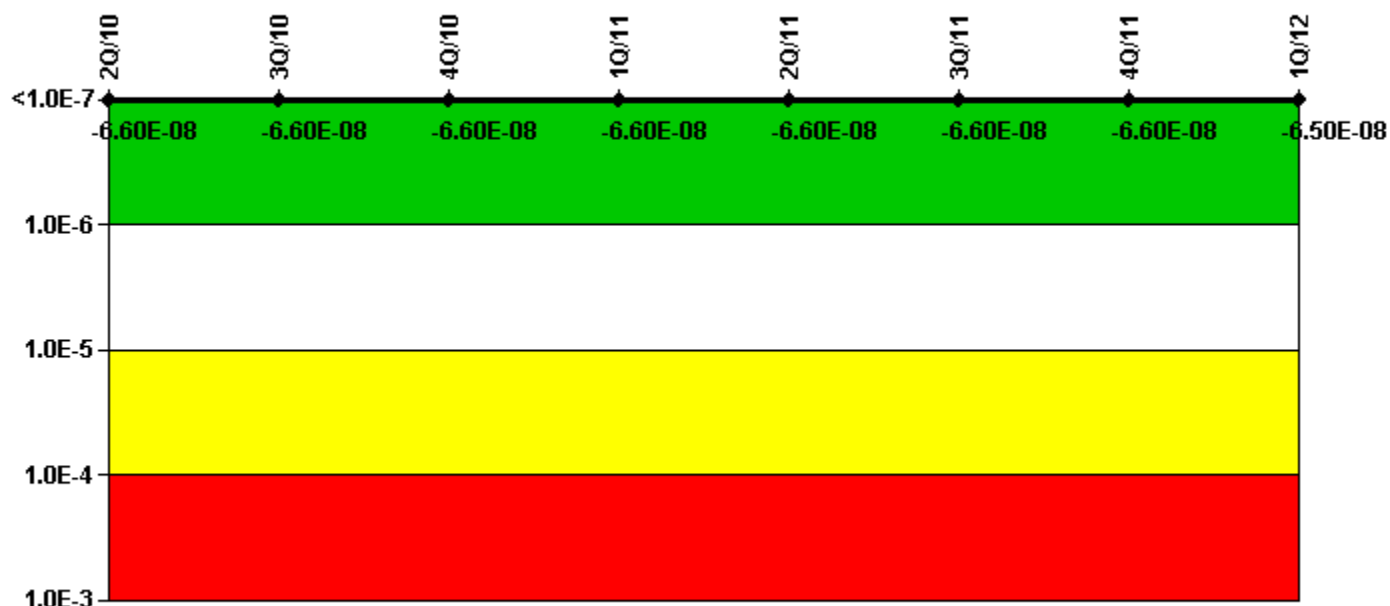
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

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)	-2.35E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08
URI (Δ CDF)	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08	-4.15E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.50E-08

Licensee Comments:

1Q/12: MSPI Basis Document update made to address Frequently Asked Question (FAQ) 484 (11-07) "FOTP Failures" and FAQ 480 (11-06) "EDG Run Hour Reporting". Revised Emergency Diesel Generator load demand and run-time estimates due to FAQ 480.

4Q/11: Evaluation of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage from April 2011 concluded No MSPI Failure occurred. (Reference CR-PLP-2011-01933)

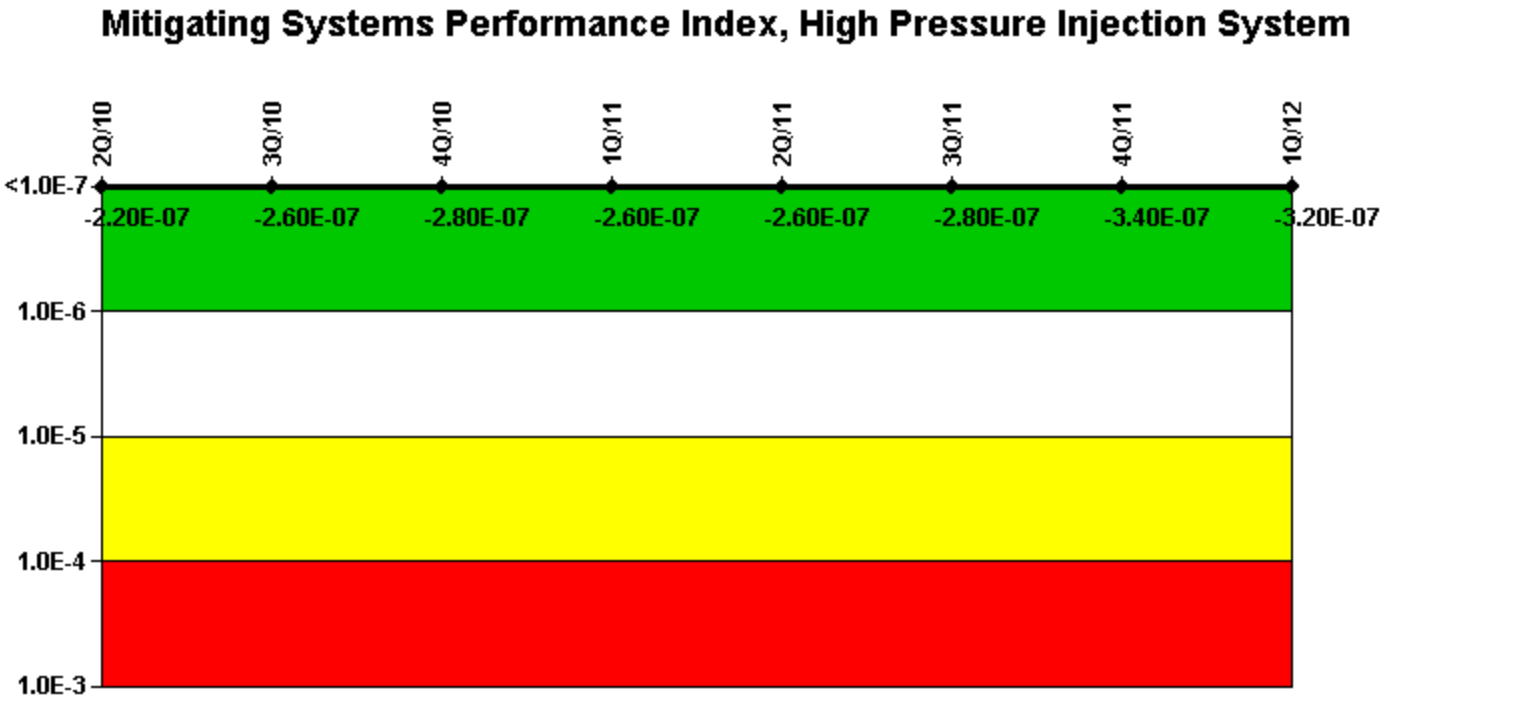
3Q/11: Evaluation is pending of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage identified in April 2011. (Reference CR-PLP-2011-01933)

2Q/11: Evaluation is pending of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage identified in April 2011. (Reference CR-PLP-2011-01933)

1Q/11: Evaluation on Emergency Diesel Generator K-6AG turbocharger support cracking identified in November 2010 concluded No MSPI Failure occurred. (Reference CR-PLP-2010-05859)

4Q/10: Evaluation is pending on Emergency Diesel Generator K-6AG turbocharger support cracking identified in November 2010. (Reference CR-PLP-2010-05859)

2Q/10: This submittal includes revision to June 2008 planned unavailability hours for Trains "K-6AG" and "K-6BG". The change was a small increase in hours and had no impact on the indicator color. (Reference CR-PLP-



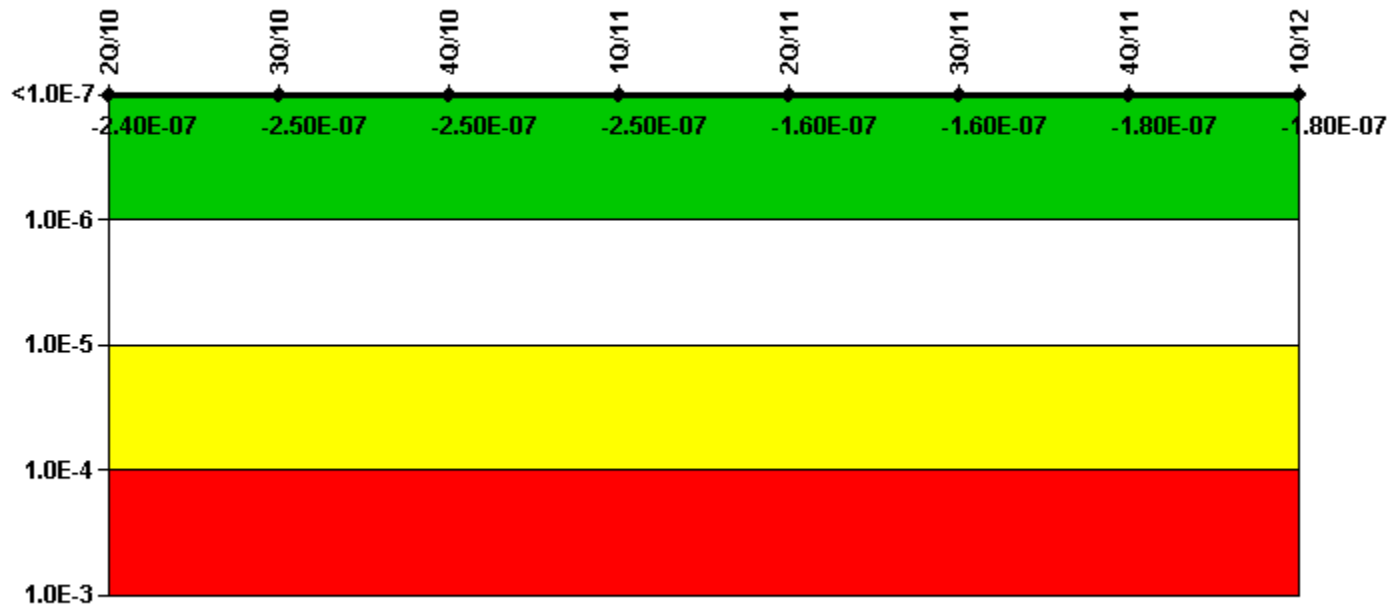
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	4.11E-08	8.73E-09	-1.38E-08	7.23E-09	9.52E-10	-1.30E-08	-7.45E-08	-5.41E-08
URI (ΔCDF)	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-07	-2.60E-07	-2.80E-07	-2.60E-07	-2.60E-07	-2.80E-07	-3.40E-07	-3.20E-07

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



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

Notes

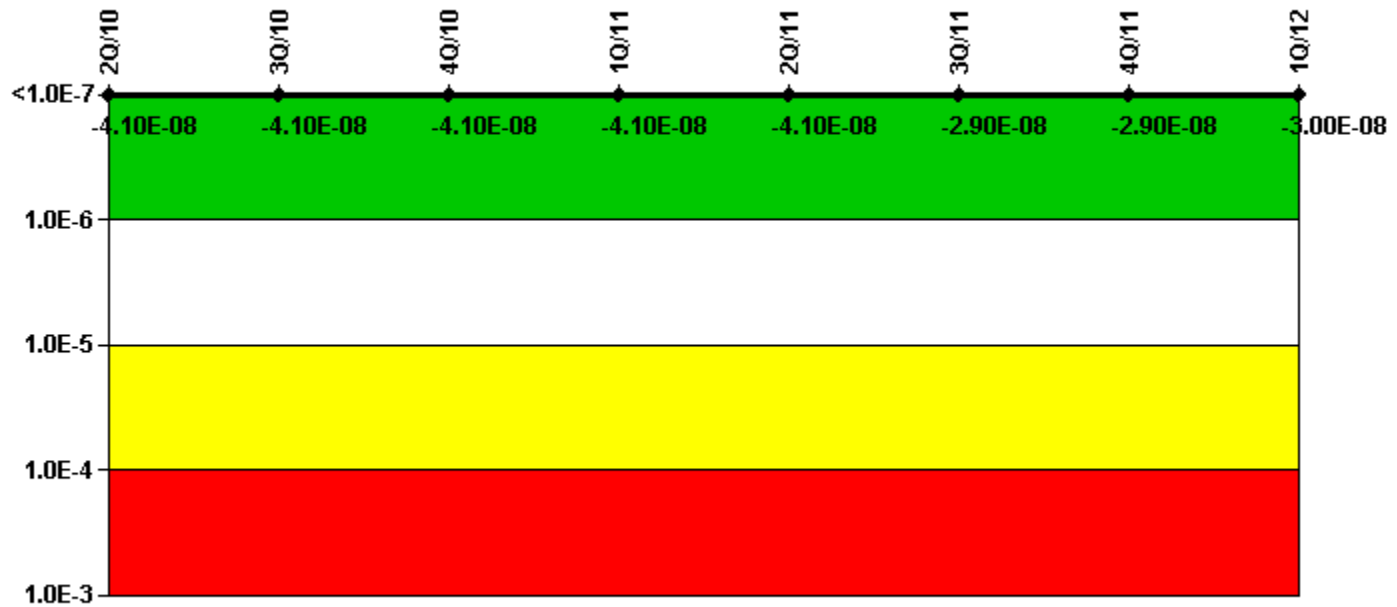
Mitigating Systems Performance Index, Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	3.36E-08	3.15E-08	3.05E-08	3.21E-08	3.63E-08	3.73E-08	1.92E-08	1.82E-08
URI (ΔCDF)	-2.77E-07	-2.77E-07	-2.77E-07	-2.78E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-07	-2.50E-07	-2.50E-07	-2.50E-07	-1.60E-07	-1.60E-07	-1.80E-07	-1.80E-07

Licensee Comments:

3Q/10: Evaluation of Auxiliary Feedwater Pump P-8A motor degradation event from June 2010 concluded No MSPI Failure occurred. (Reference CR-PLP-2010-02367)

2Q/10: Evaluation is pending on Auxiliary Feedwater Pump P-8A motor degradation identified in June 2010. (Reference CR-PLP-2010-02367)

Mitigating Systems Performance Index, Residual Heat Removal System



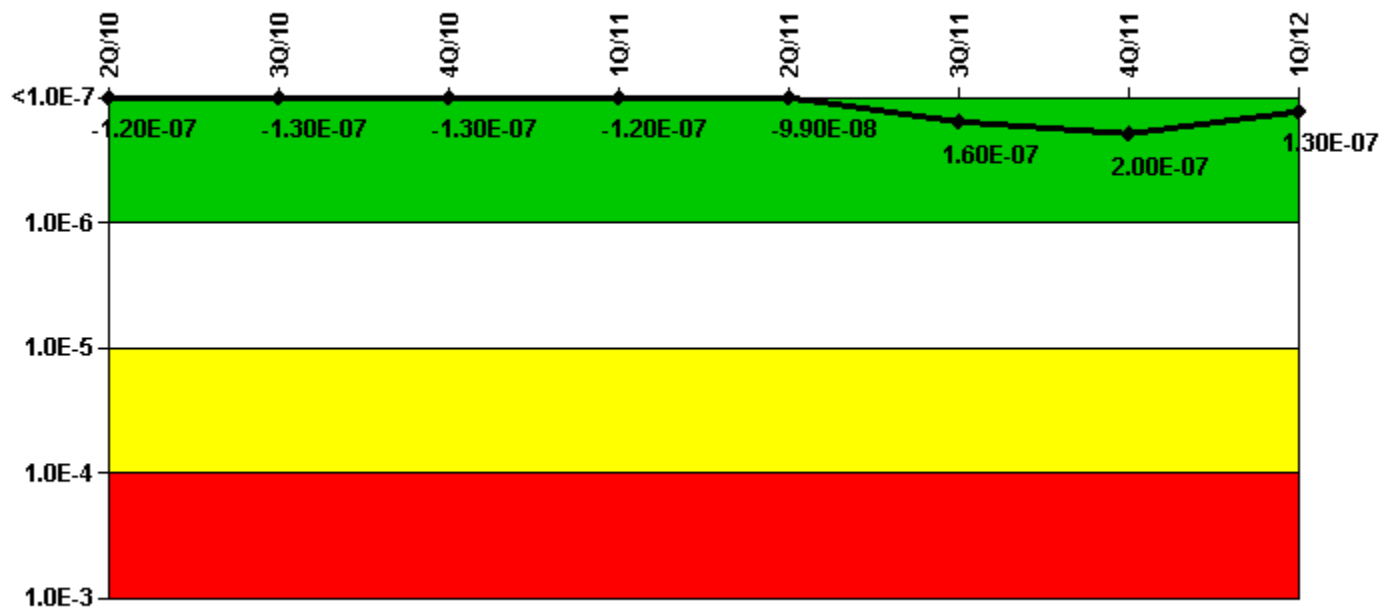
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-3.02E-10	-3.51E-10	-4.08E-10	-3.96E-10	-4.52E-10	1.17E-08	1.11E-08	1.07E-08
URI (Δ CDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08	-2.90E-08	-2.90E-08	-3.00E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

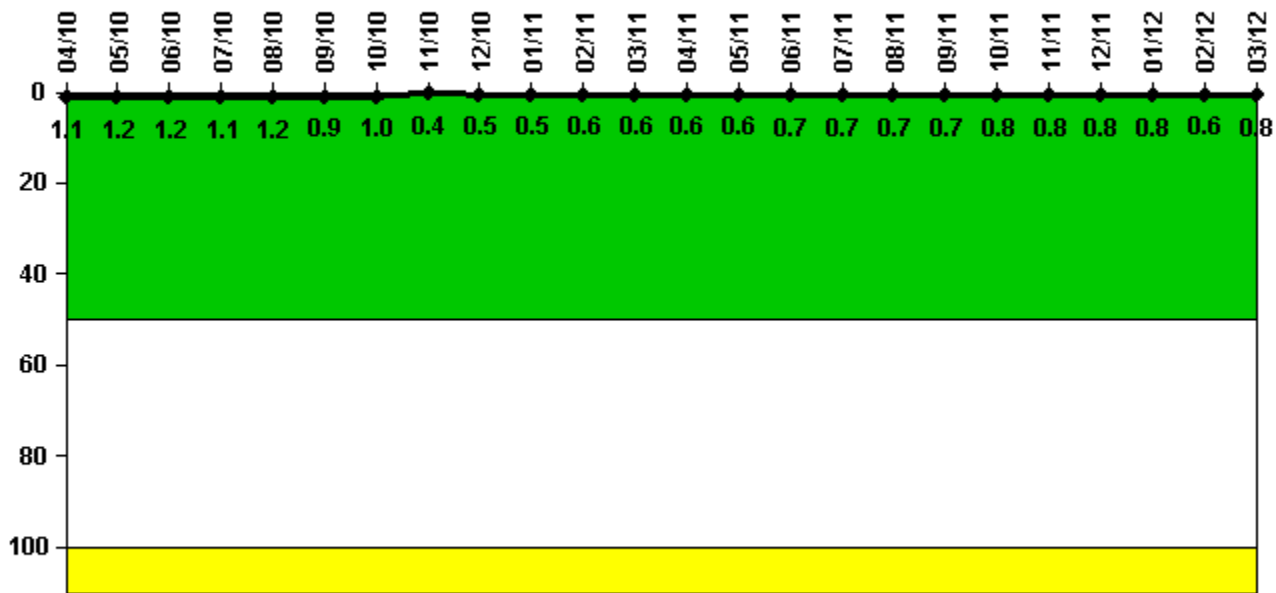
Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	6.84E-08	5.75E-08	5.98E-08	6.53E-08	8.72E-08	2.98E-07	3.44E-07	2.75E-07
URI (ΔCDF)	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.42E-07	-1.42E-07	-1.42E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-07	-1.30E-07	-1.30E-07	-1.20E-07	-9.90E-08	1.60E-07	2.00E-07	1.30E-07

Licensee Comments:

1Q/12: MSPI Basis Document update made to address Frequently Asked Question (FAQ) 482 (11-01) "Cooling Water Boundary".

Reactor Coolant System Activity



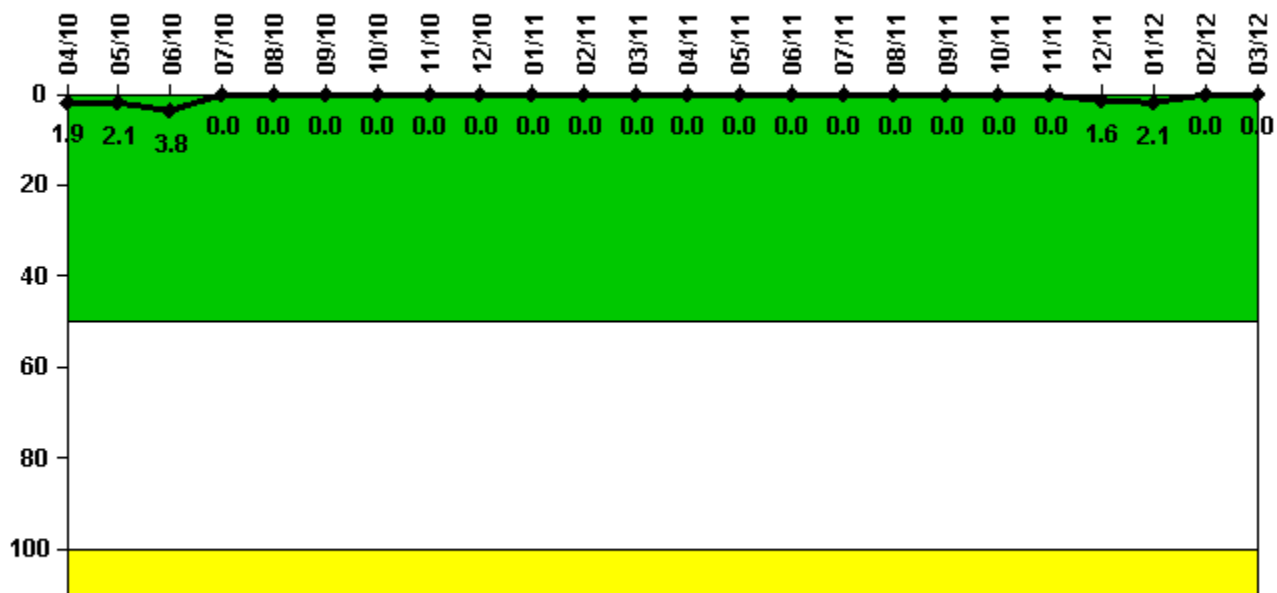
Thresholds: White > 50.0 Yellow > 100.0

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	0.010600	0.011600	0.012100	0.010500	0.012300	0.009200	0.010100	0.004300	0.005100	0.005050	0.005660	0.005970
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.1	1.2	1.2	1.1	1.2	0.9	1.0	0.4	0.5	0.5	0.6	0.6
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	0.005970	0.006320	0.006520	0.006810	0.007120	0.007170	0.007630	0.007830	0.007790	0.008060	0.006240	0.007910
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.6	0.8

Licensee Comments: none

Reactor Coolant System Leakage



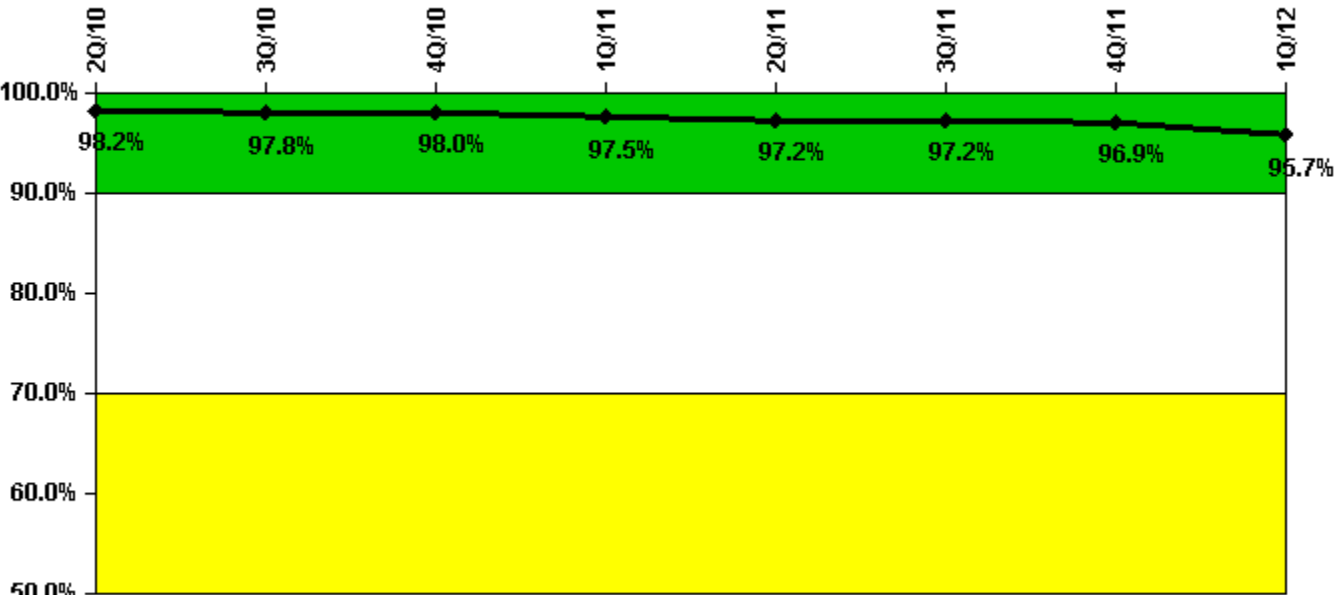
Thresholds: White > 50.0 Yellow > 100.0

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	0.185	0.211	0.383	0.003	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001
Technical specification limit	10.0	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	2.1	3.8	0	0	0	0	0	0	0	0	0
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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.159	0.211	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	1.6	2.1	0	0

Licensee Comments: none

Drill/Exercise Performance



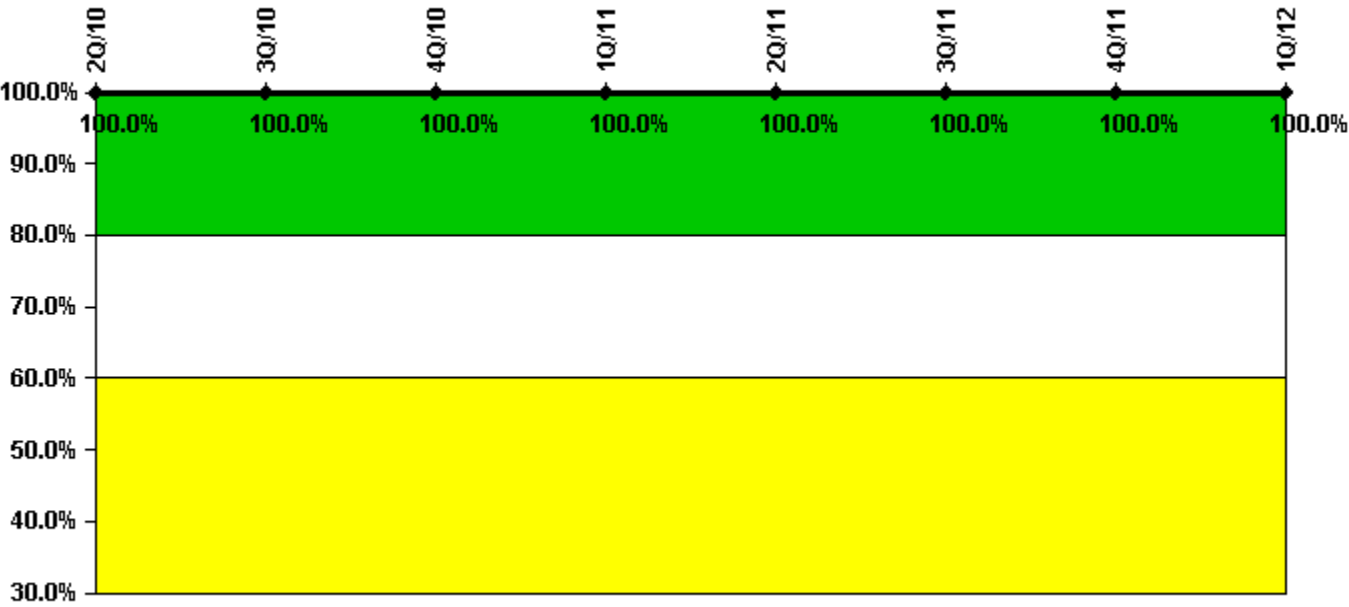
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful opportunities	28.0	23.0	32.0	77.0	50.0	24.0	19.0	34.0
Total opportunities	30.0	24.0	32.0	80.0	52.0	25.0	20.0	37.0
Indicator value	98.2%	97.8%	98.0%	97.5%	97.2%	97.2%	96.9%	95.7%

Licensee Comments: none

ERO Drill Participation



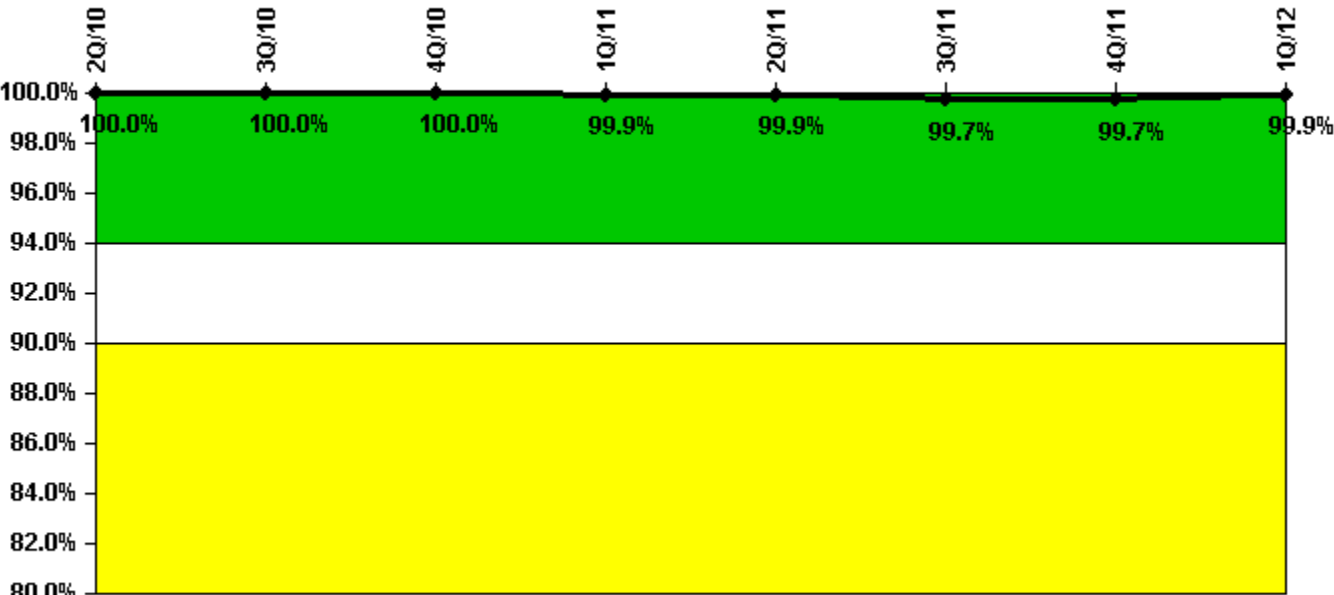
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Participating Key personnel	80.0	82.0	81.0	80.0	82.0	85.0	87.0	85.0
Total Key personnel	80.0	82.0	81.0	80.0	82.0	85.0	87.0	85.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



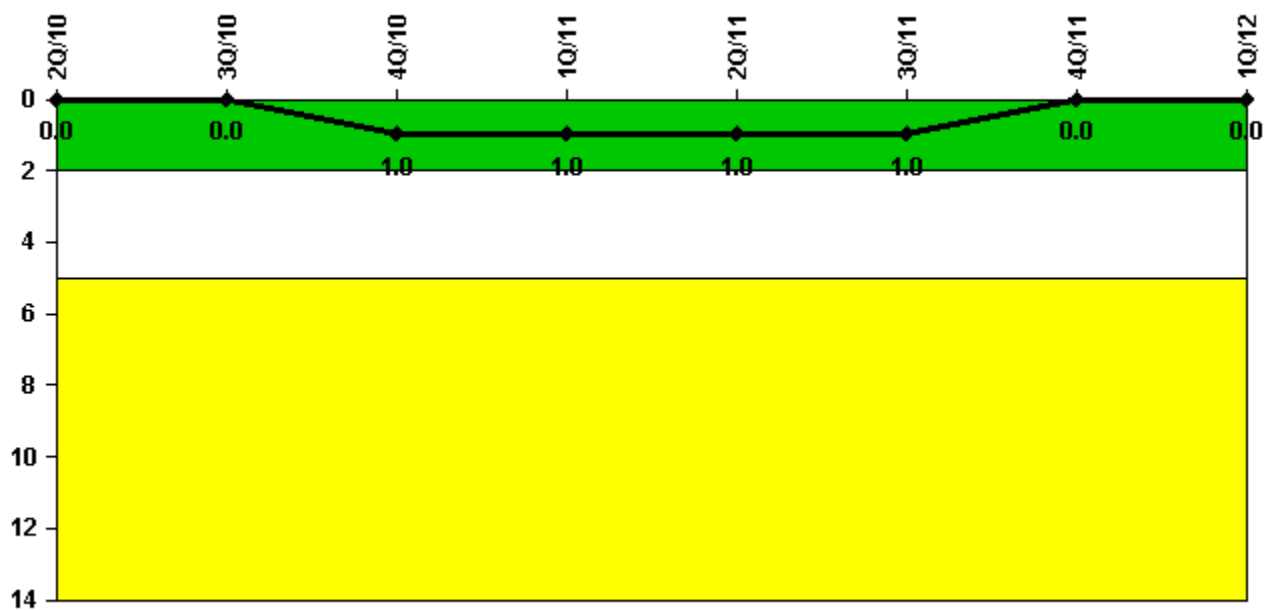
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful siren-tests	183	183	183	182	183	182	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	100.0%	100.0%	100.0%	99.9%	99.9%	99.7%	99.7%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



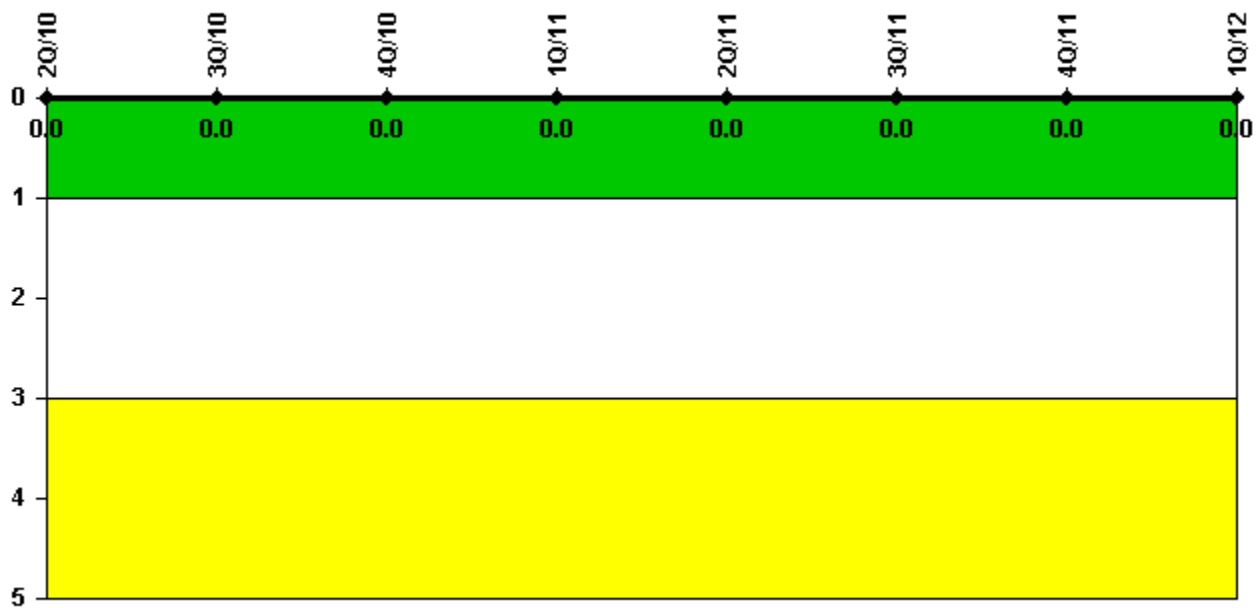
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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	1	0	0	0	0	0
Indicator value	0	0	1	1	1	1	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

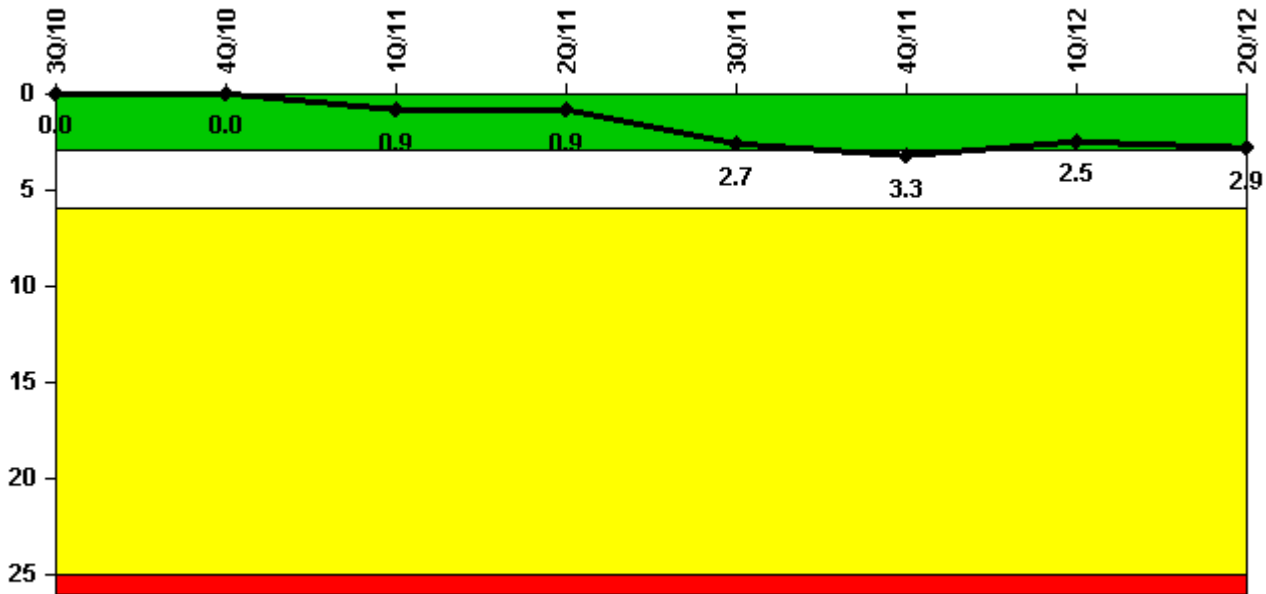
[Security](#) information not publicly available.

Palisades

2Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



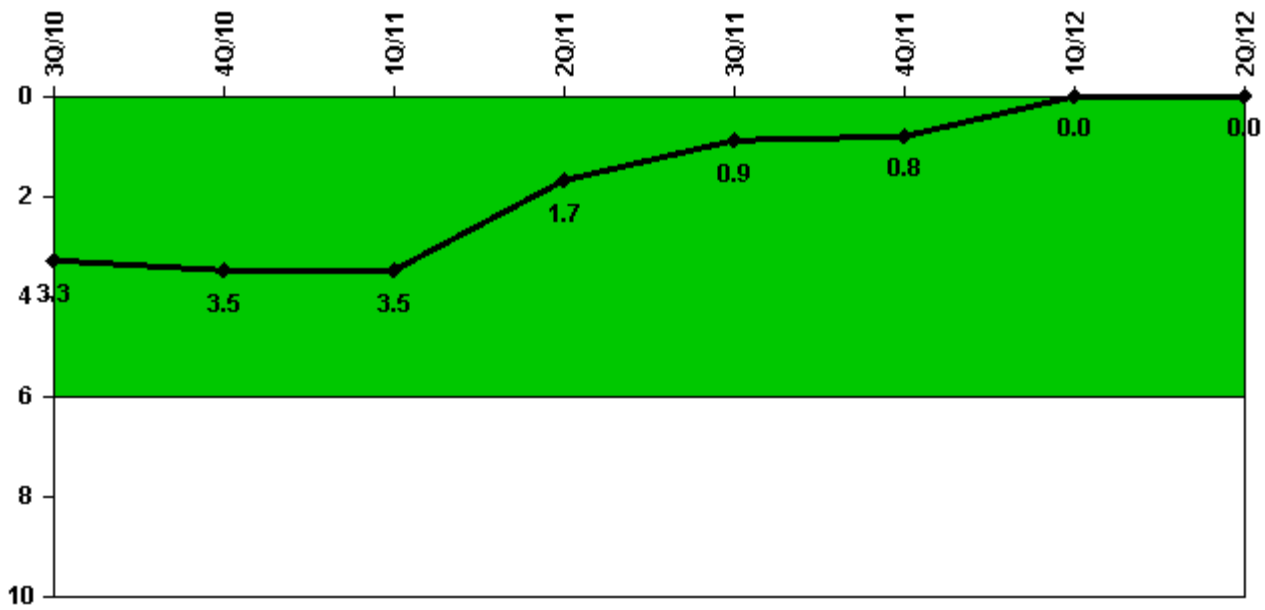
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	2.0	1.0	0	0
Critical hours	2167.6	1594.9	2111.3	2184.0	1998.9	2160.5	2108.4	965.4
Indicator value	0	0	0.9	0.9	2.7	3.3	2.5	2.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



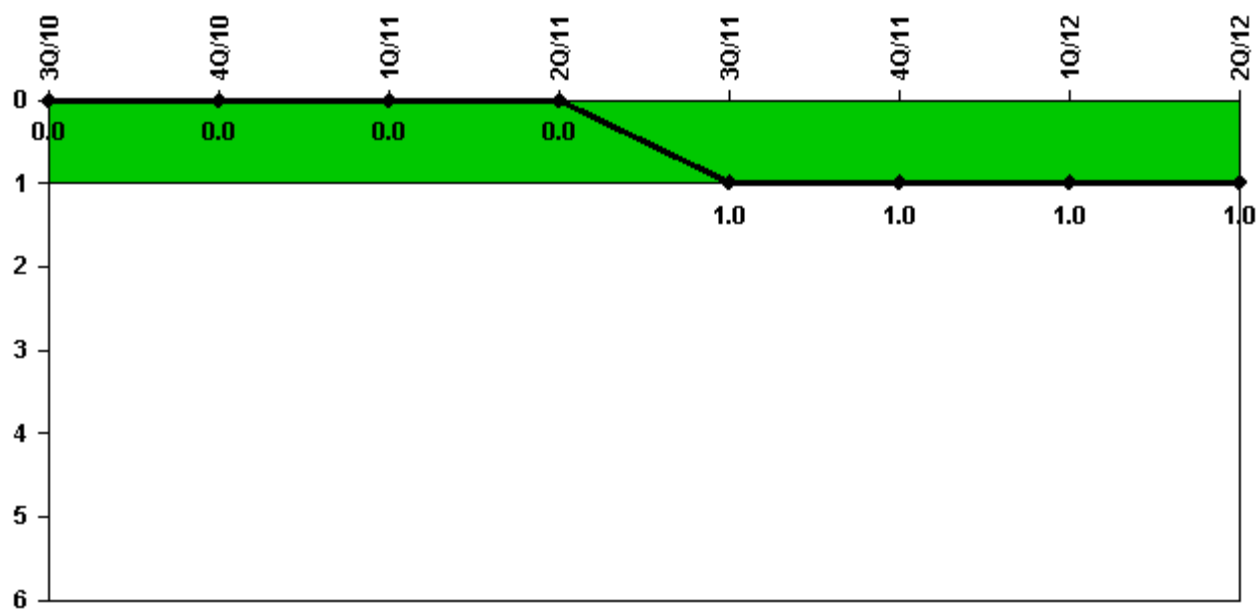
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned power changes	1.0	0	1.0	0	0	0	0	0
Critical hours	2167.6	1594.9	2111.3	2184.0	1998.9	2160.5	2108.4	965.4
Indicator value	3.3	3.5	3.5	1.7	0.9	0.8	0	0

Licensee Comments: none

Unplanned Scrams with Complications



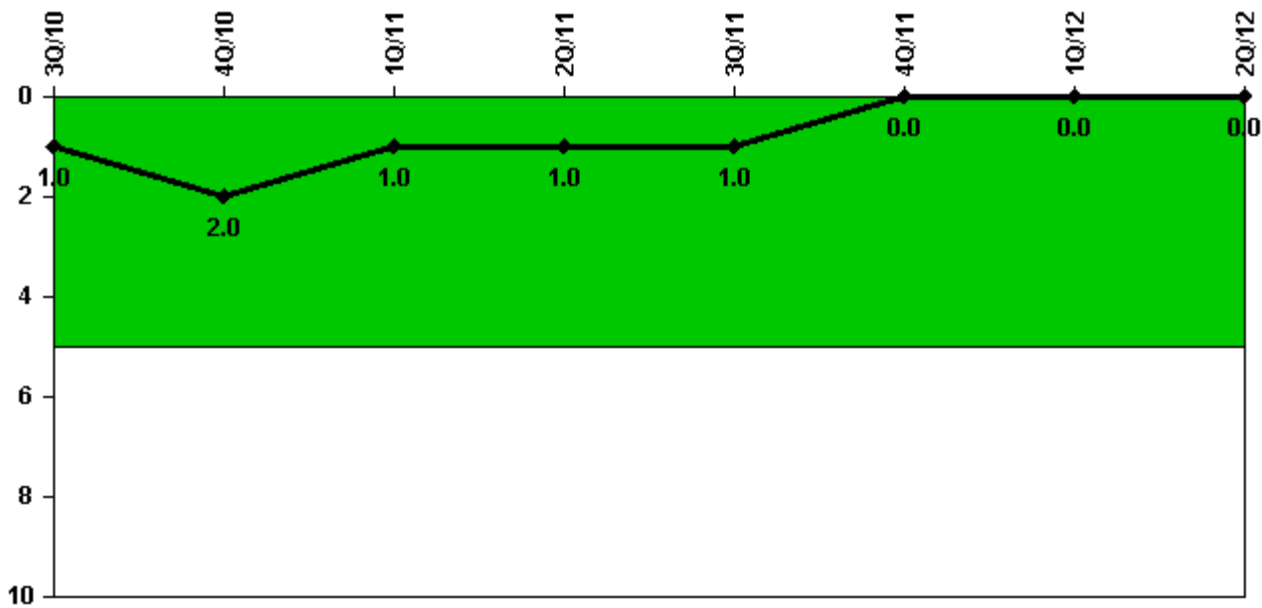
Thresholds: White > 1.0

Notes

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



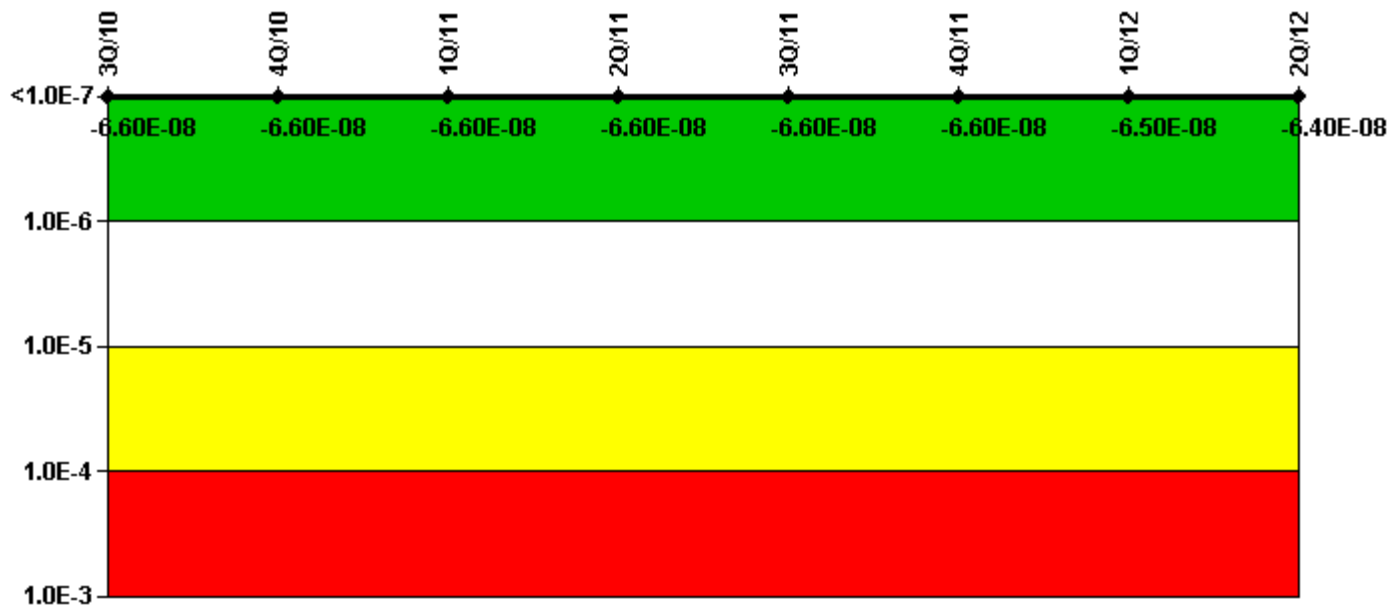
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
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	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.35E-08
URI (ΔCDF)	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08	-4.15E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.50E-08	-6.40E-08

Licensee Comments:

1Q/12: MSPI Basis Document update made to address Frequently Asked Question (FAQ) 484 (11-07) "FOTP Failures" and FAQ 480 (11-06) "EDG Run Hour Reporting". Revised Emergency Diesel Generator load demand and run-time estimates due to FAQ 480.

4Q/11: Evaluation of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage from April 2011 concluded No MSPI Failure occurred. (Reference CR-PLP-2011-01933)

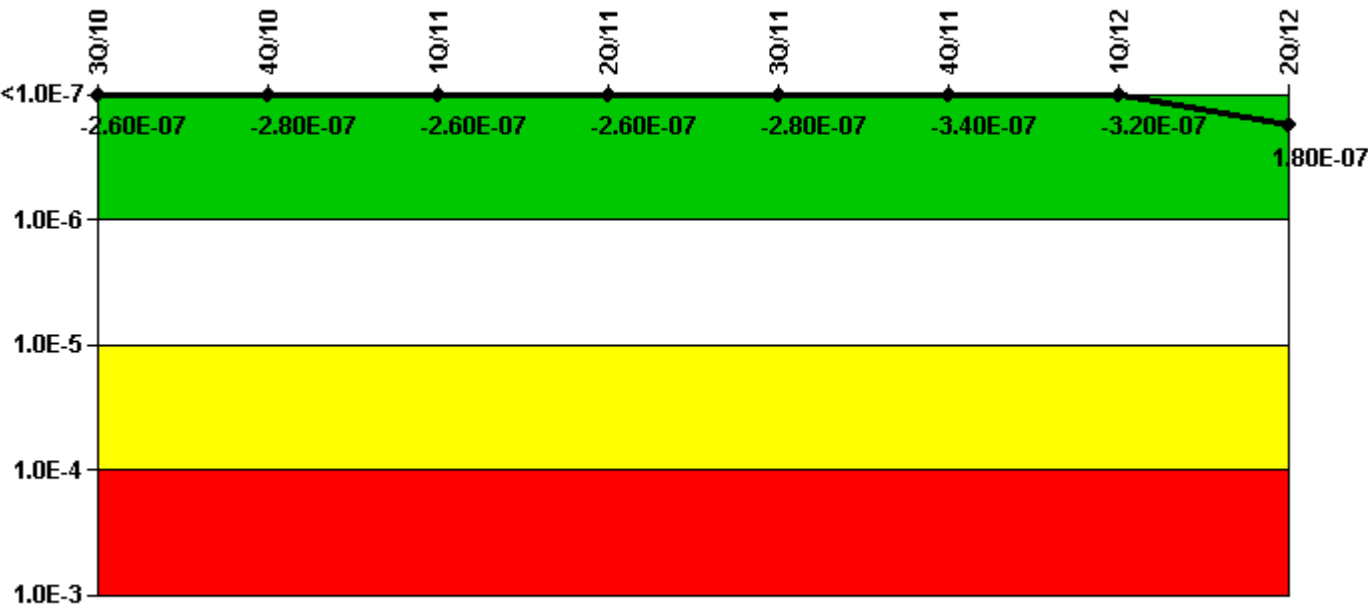
3Q/11: Evaluation is pending of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage identified in April 2011. (Reference CR-PLP-2011-01933)

2Q/11: Evaluation is pending of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage identified in April 2011. (Reference CR-PLP-2011-01933)

1Q/11: Evaluation on Emergency Diesel Generator K-6AG turbocharger support cracking identified in November 2010 concluded No MSPI Failure occurred. (Reference CR-PLP-2010-05859)

4Q/10: Evaluation is pending on Emergency Diesel Generator K-6AG turbocharger support cracking identified in November 2010. (Reference CR-PLP-2010-05859)

Mitigating Systems Performance Index, High Pressure Injection System



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

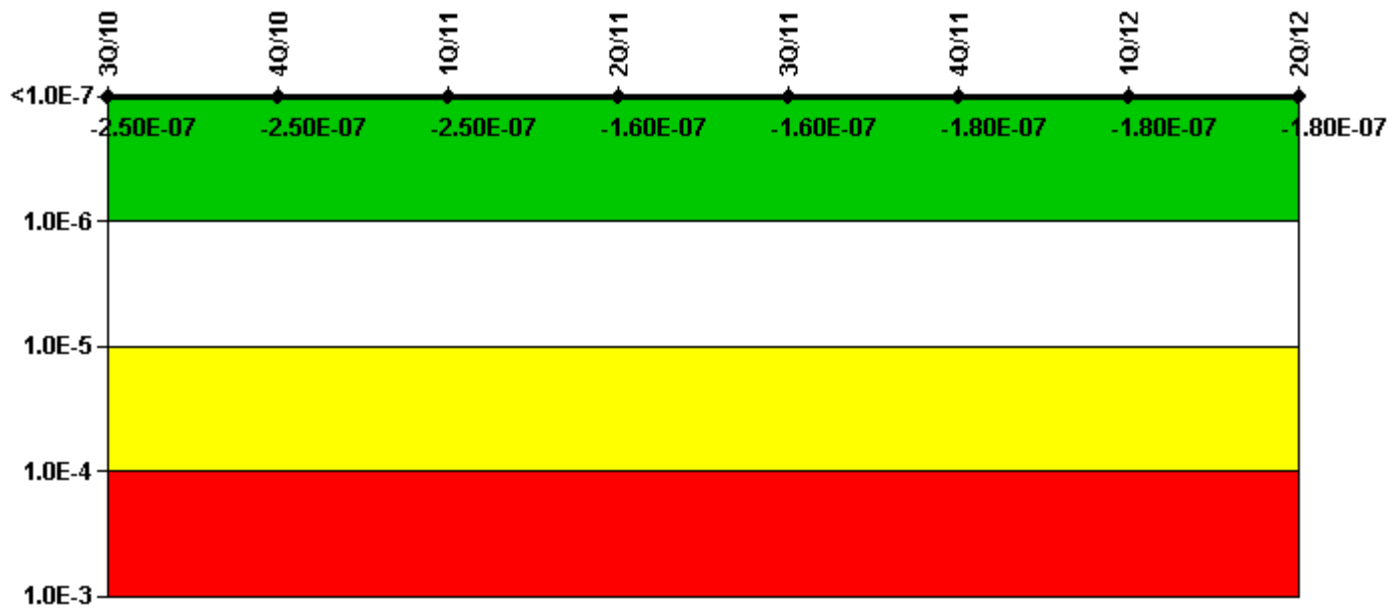
Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	8.73E-09	-1.38E-08	7.23E-09	9.52E-10	-1.30E-08	-7.45E-08	-5.41E-08	-5.12E-08
URI (ΔCDF)	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	2.35E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.60E-07	-2.80E-07	-2.60E-07	-2.60E-07	-2.80E-07	-3.40E-07	-3.20E-07	1.80E-07

Licensee Comments:

2Q/12: Risk Cap Invoked.

Mitigating Systems Performance Index, Heat Removal System



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

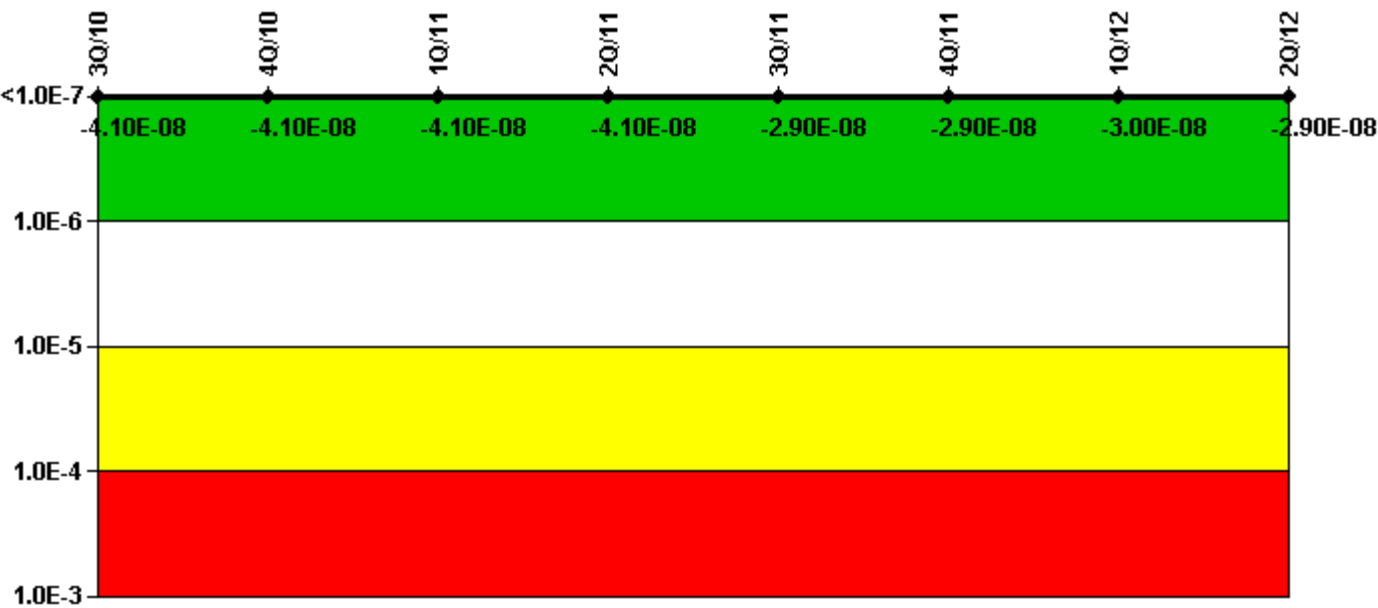
Notes

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)	3.15E-08	3.05E-08	3.21E-08	3.63E-08	3.73E-08	1.92E-08	1.82E-08	1.87E-08
URI (Δ CDF)	-2.77E-07	-2.77E-07	-2.78E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-07	-2.50E-07	-2.50E-07	-1.60E-07	-1.60E-07	-1.80E-07	-1.80E-07	-1.80E-07

Licensee Comments:

3Q/10: Evaluation of Auxiliary Feedwater Pump P-8A motor degradation event from June 2010 concluded No MSPI Failure occurred. (Reference CR-PLP-2010-02367)

Mitigating Systems Performance Index, Residual Heat Removal System



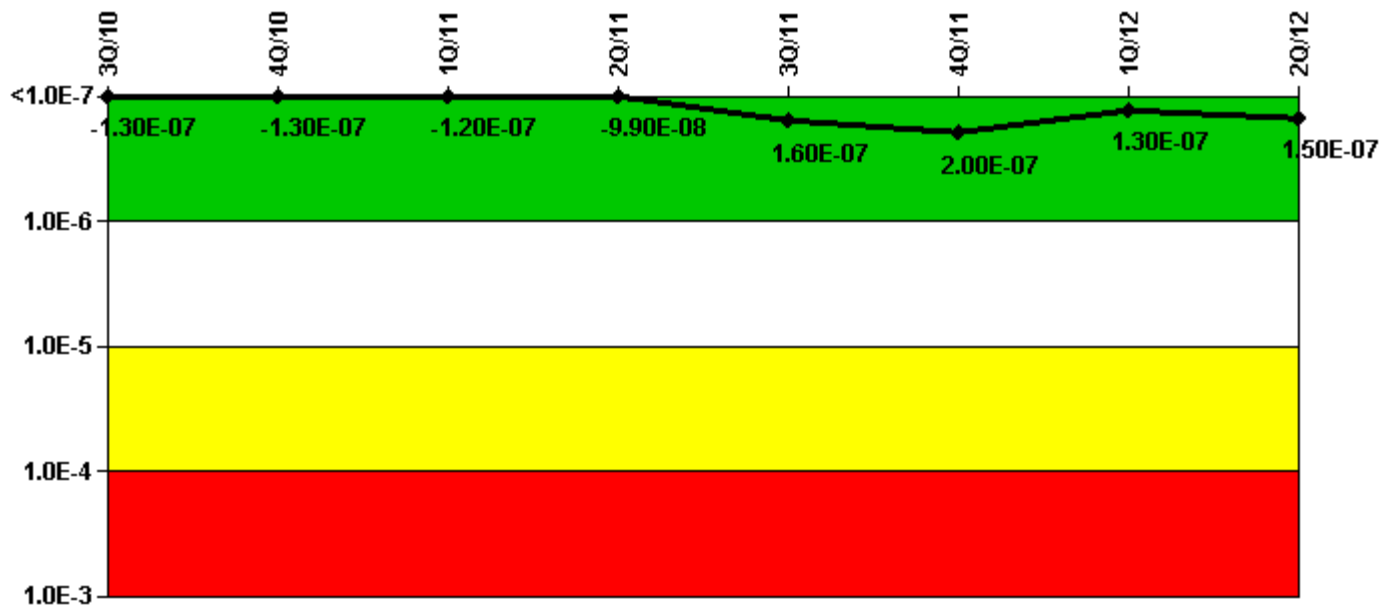
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-3.51E-10	-4.08E-10	-3.96E-10	-4.52E-10	1.17E-08	1.11E-08	1.07E-08	1.16E-08
URI (Δ CDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08	-2.90E-08	-2.90E-08	-3.00E-08	-2.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

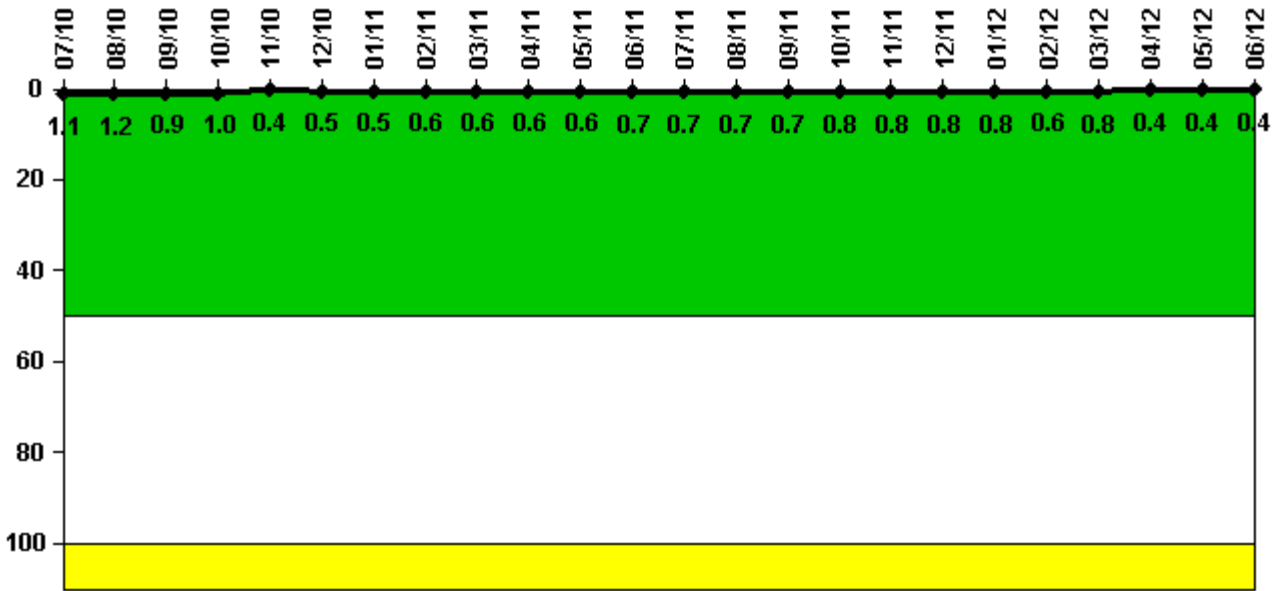
Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	5.75E-08	5.98E-08	6.53E-08	8.72E-08	2.98E-07	3.44E-07	2.75E-07	2.97E-07
URI (ΔCDF)	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.42E-07	-1.42E-07	-1.42E-07	-1.42E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-07	-1.30E-07	-1.20E-07	-9.90E-08	1.60E-07	2.00E-07	1.30E-07	1.50E-07

Licensee Comments:

1Q/12: MSPI Basis Document update made to address Frequently Asked Question (FAQ) 482 (11-01) "Cooling Water Boundary".

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

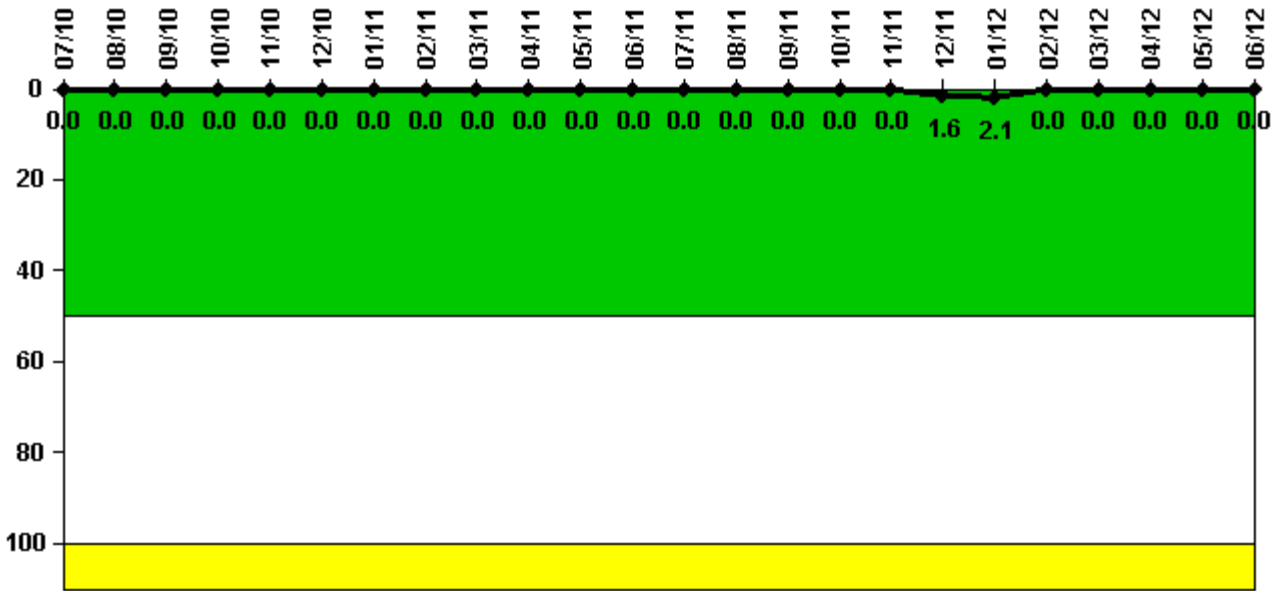
Notes

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	0.010500	0.012300	0.009200	0.010100	0.004300	0.005100	0.005050	0.005660	0.005970	0.005970	0.006320	0.006520
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.1	1.2	0.9	1.0	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.7

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	0.006810	0.007120	0.007170	0.007630	0.007830	0.007790	0.008060	0.006240	0.007910	0.004180	0.003670	0.003660
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.6	0.8	0.4	0.4	0.4

Licensee Comments: none

Reactor Coolant System Leakage



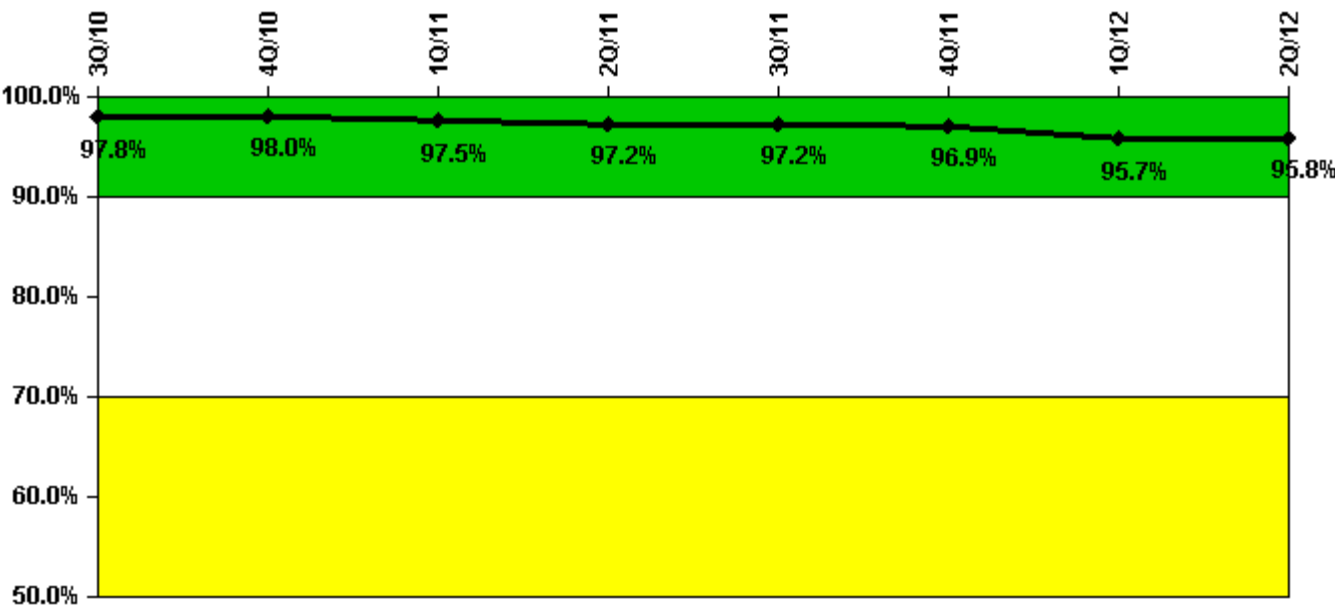
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.003	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Leakage	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum leakage	0.001	0.001	0.001	0.001	0.001	0.159	0.211	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	1.6	2.1	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



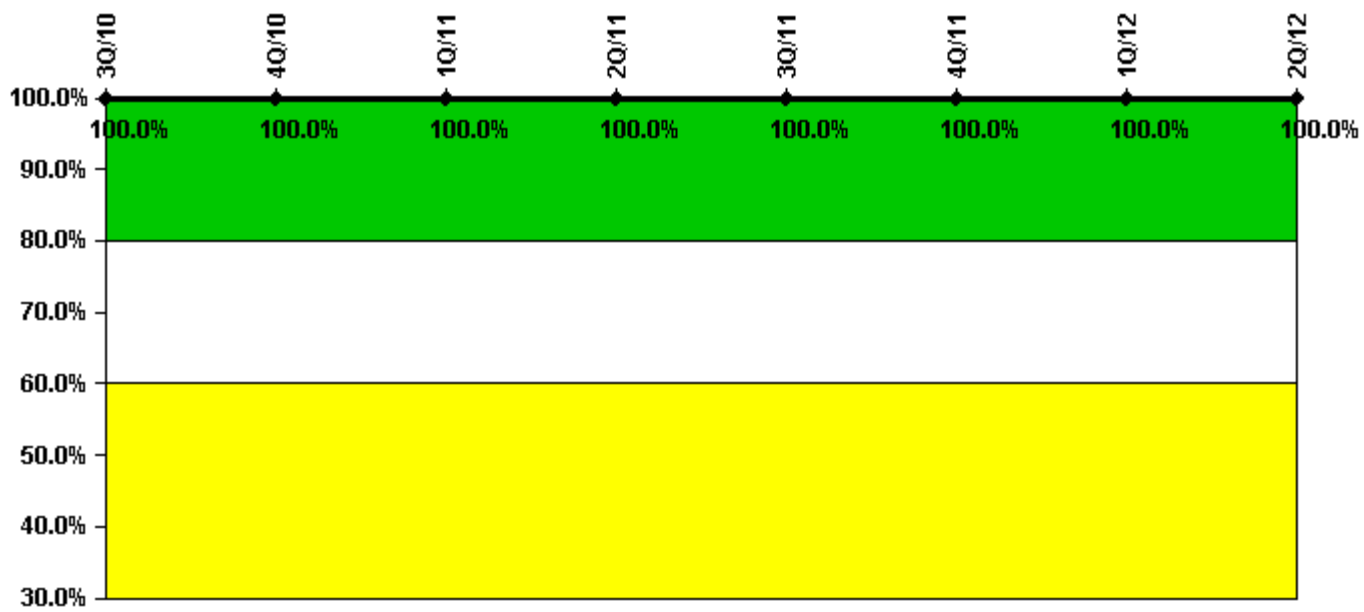
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful opportunities	23.0	32.0	77.0	50.0	24.0	19.0	34.0	16.0
Total opportunities	24.0	32.0	80.0	52.0	25.0	20.0	37.0	17.0
Indicator value	97.8%	98.0%	97.5%	97.2%	97.2%	96.9%	95.7%	95.8%

Licensee Comments: none

ERO Drill Participation



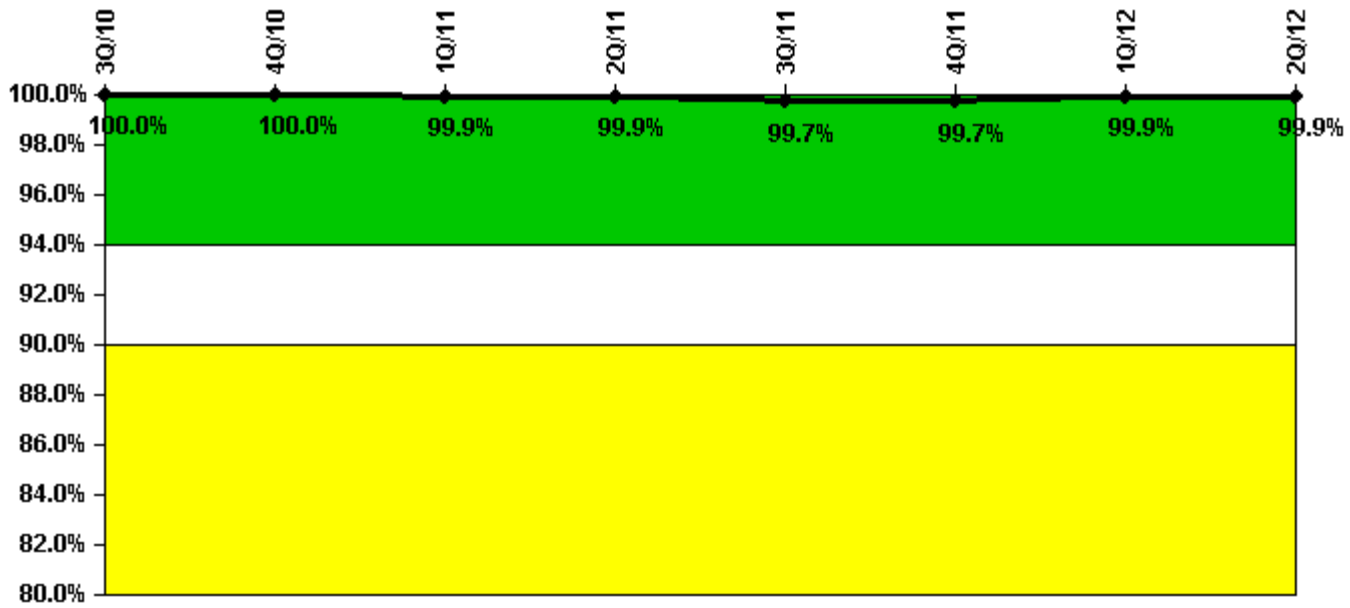
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Participating Key personnel	82.0	81.0	80.0	82.0	85.0	87.0	85.0	86.0
Total Key personnel	82.0	81.0	80.0	82.0	85.0	87.0	85.0	86.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



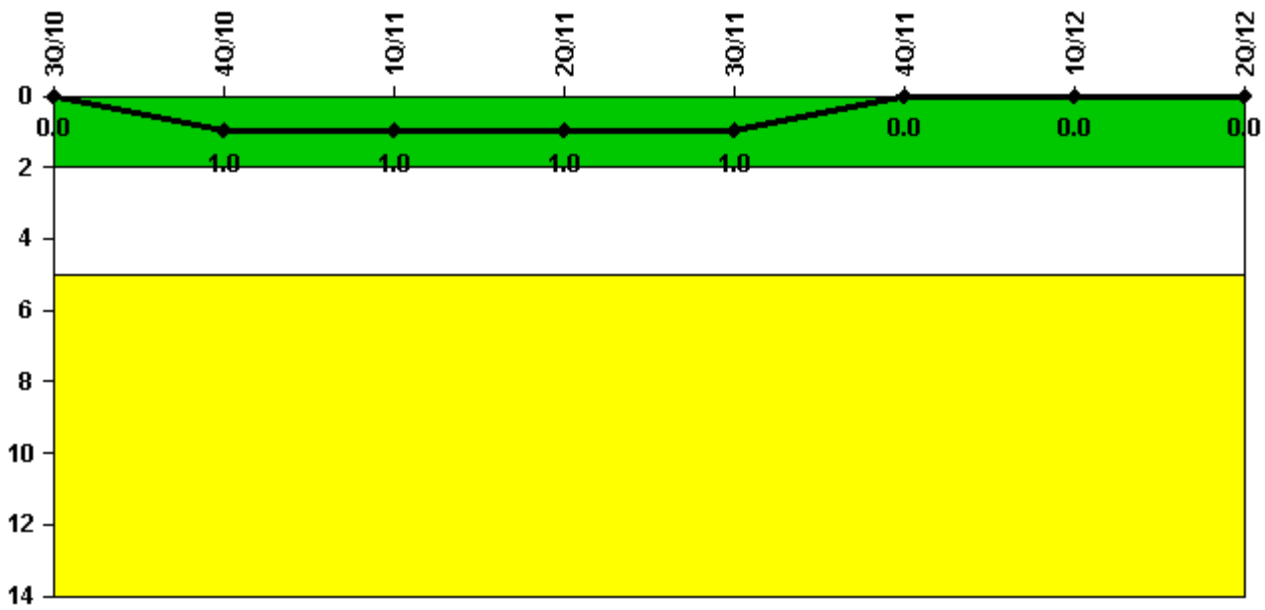
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful siren-tests	183	183	182	183	182	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	100.0%	100.0%	99.9%	99.9%	99.7%	99.7%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



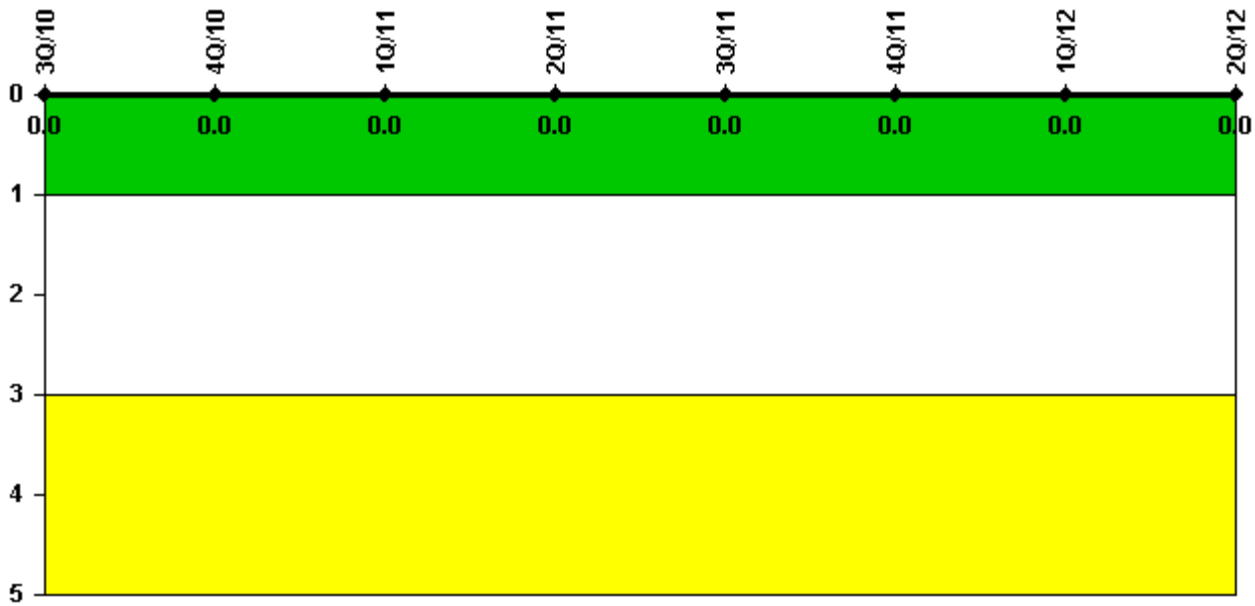
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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	1	0	0	0	0	0	0
Indicator value	0	1	1	1	1	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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.

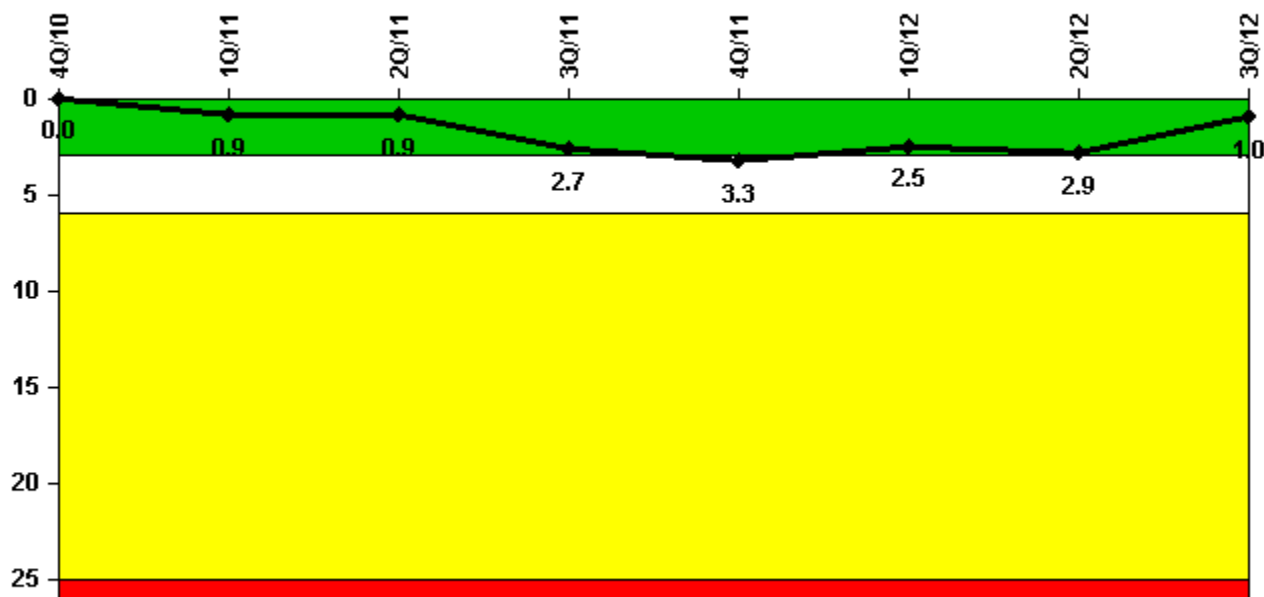


Palisades

3Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



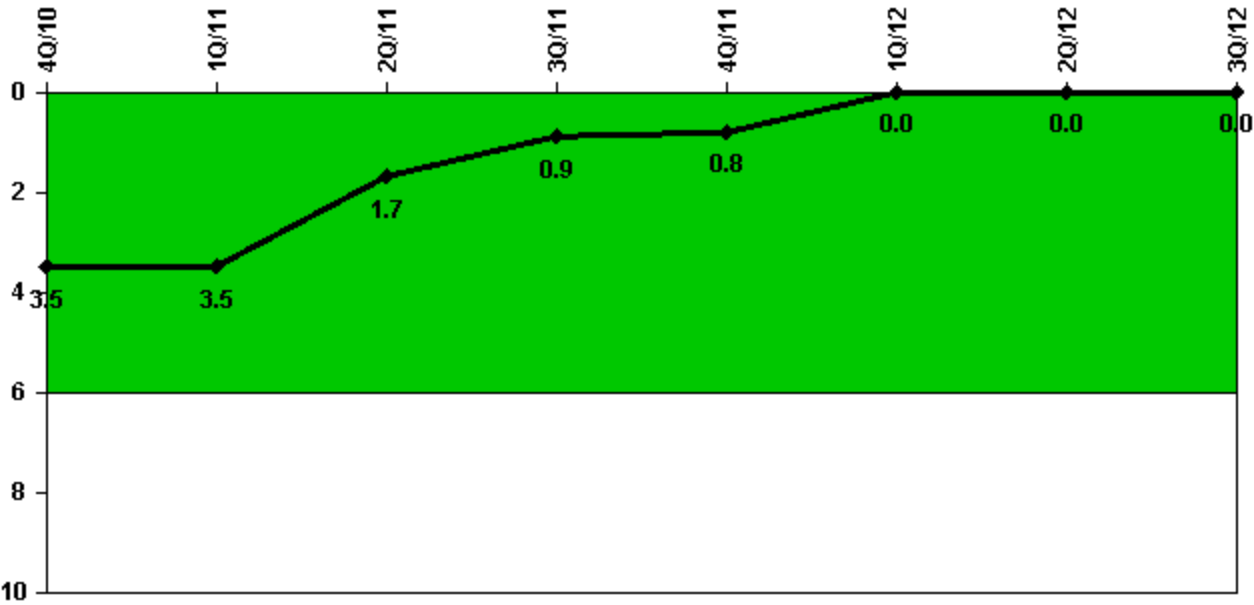
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	2.0	1.0	0	0	0
Critical hours	1594.9	2111.3	2184.0	1998.9	2160.5	2108.4	965.4	1544.8
Indicator value	0	0.9	0.9	2.7	3.3	2.5	2.9	1.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



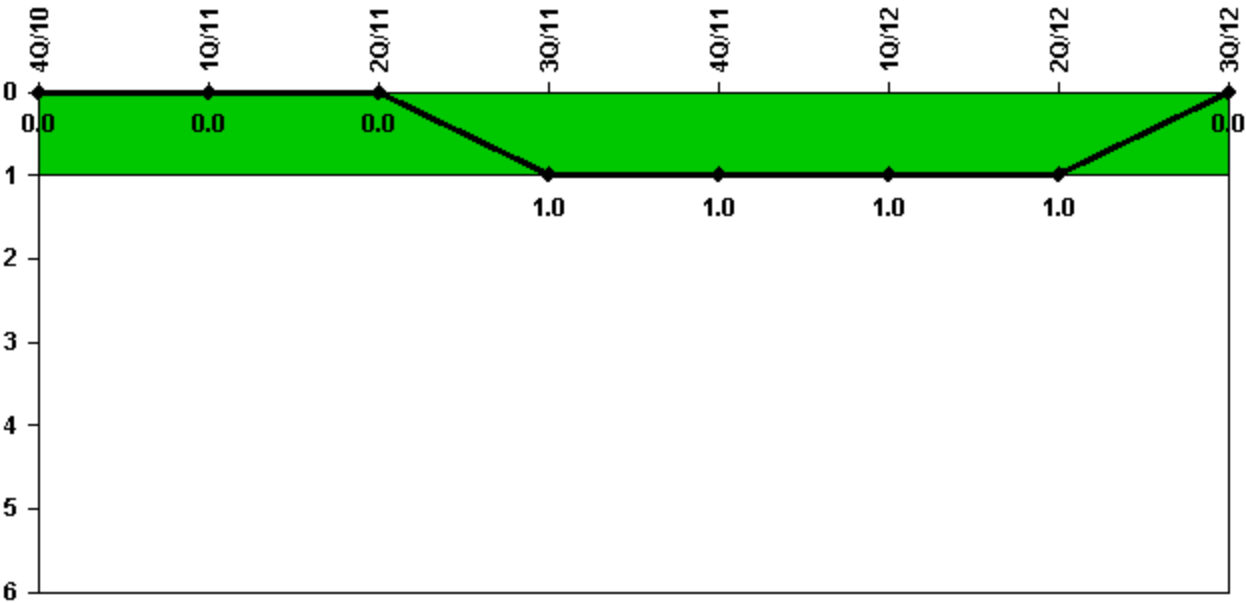
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	1594.9	2111.3	2184.0	1998.9	2160.5	2108.4	965.4	1544.8
Indicator value	3.5	3.5	1.7	0.9	0.8	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



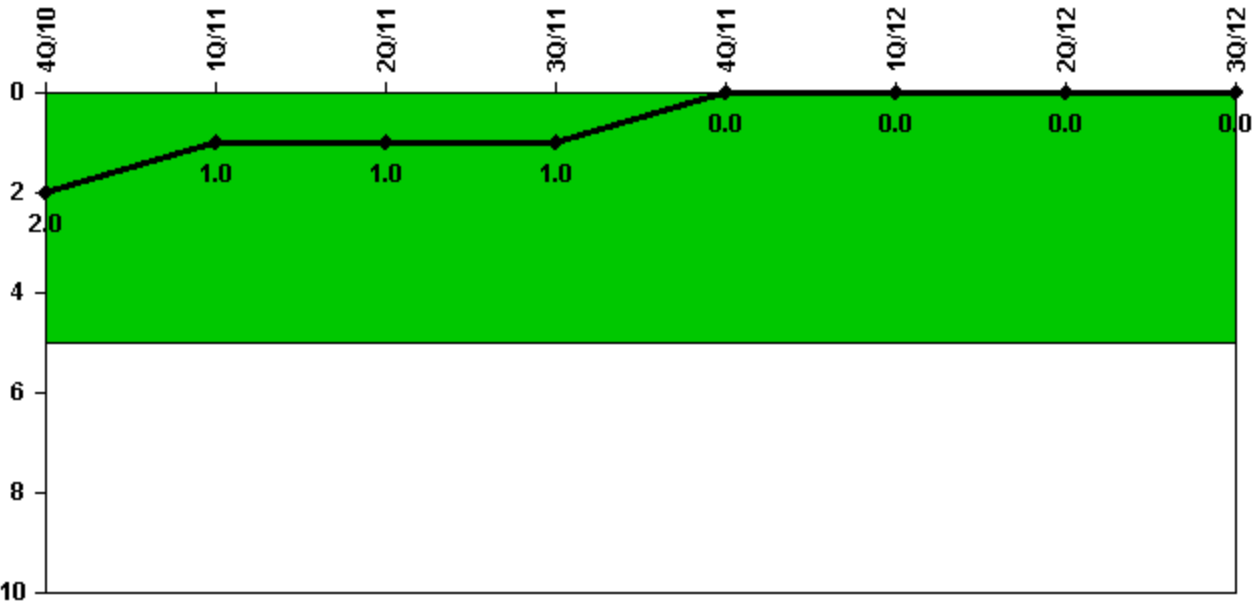
Thresholds: White > 1.0

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	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)



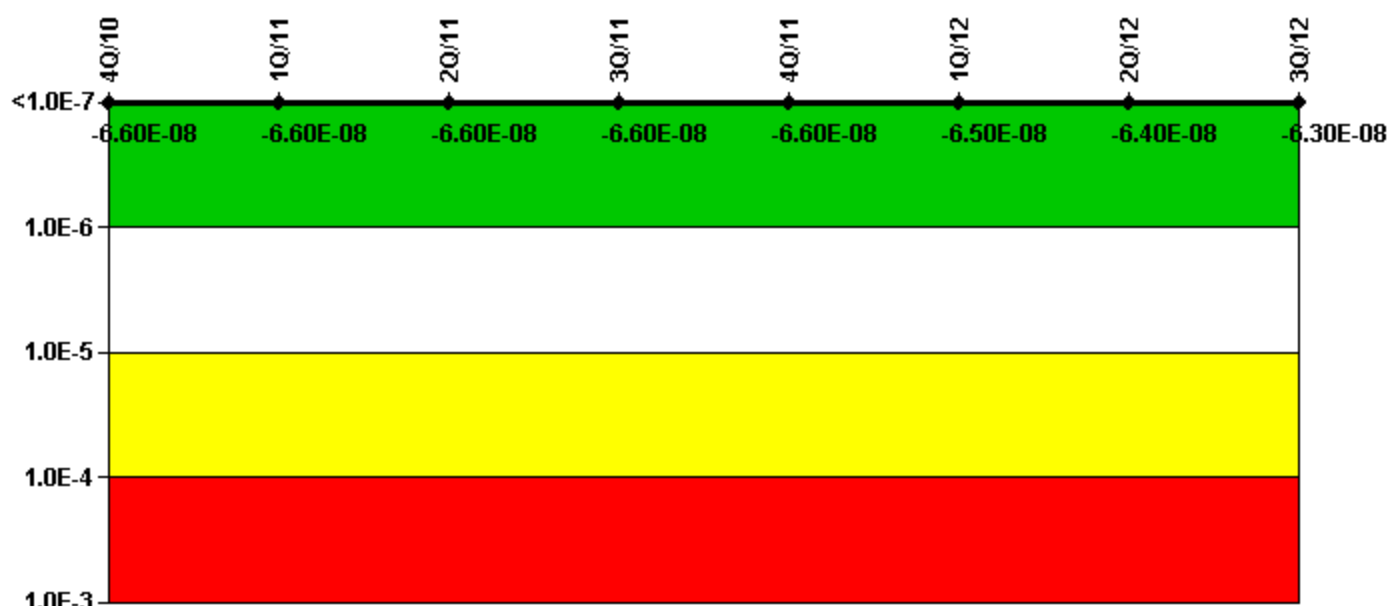
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
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	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.35E-08	-2.34E-08
URI (Δ CDF)	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08	-4.15E-08	-4.04E-08	-3.94E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.50E-08	-6.40E-08	-6.30E-08

Licensee Comments:

1Q/12: MSPI Basis Document update made to address Frequently Asked Question (FAQ) 484 (11-07) "FOTP Failures" and FAQ 480 (11-06) "EDG Run Hour Reporting". Revised Emergency Diesel Generator load demand and run-time estimates due to FAQ 480.

4Q/11: Evaluation of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage from April 2011 concluded No MSPI Failure occurred. (Reference CR-PLP-2011-01933)

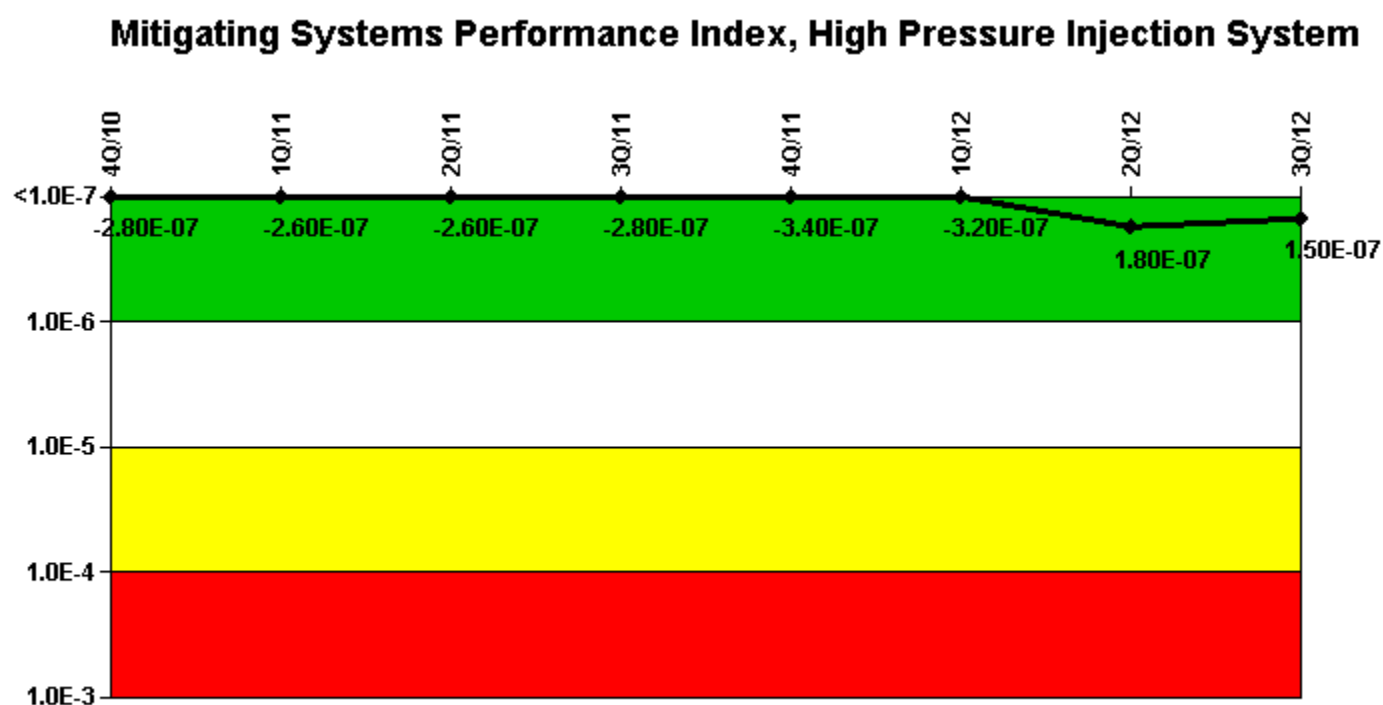
3Q/11: Evaluation is pending of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage identified in April 2011. (Reference CR-PLP-2011-01933)

2Q/11: Evaluation is pending of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage identified in April 2011. (Reference CR-PLP-2011-01933)

1Q/11: Evaluation on Emergency Diesel Generator K-6AG turbocharger support cracking identified in November

2010 concluded No MSPI Failure occurred. (Reference CR-PLP-2010-05859)

4Q/10: Evaluation is pending on Emergency Diesel Generator K-6AG turbocharger support cracking identified in November 2010. (Reference CR-PLP-2010-05859)



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

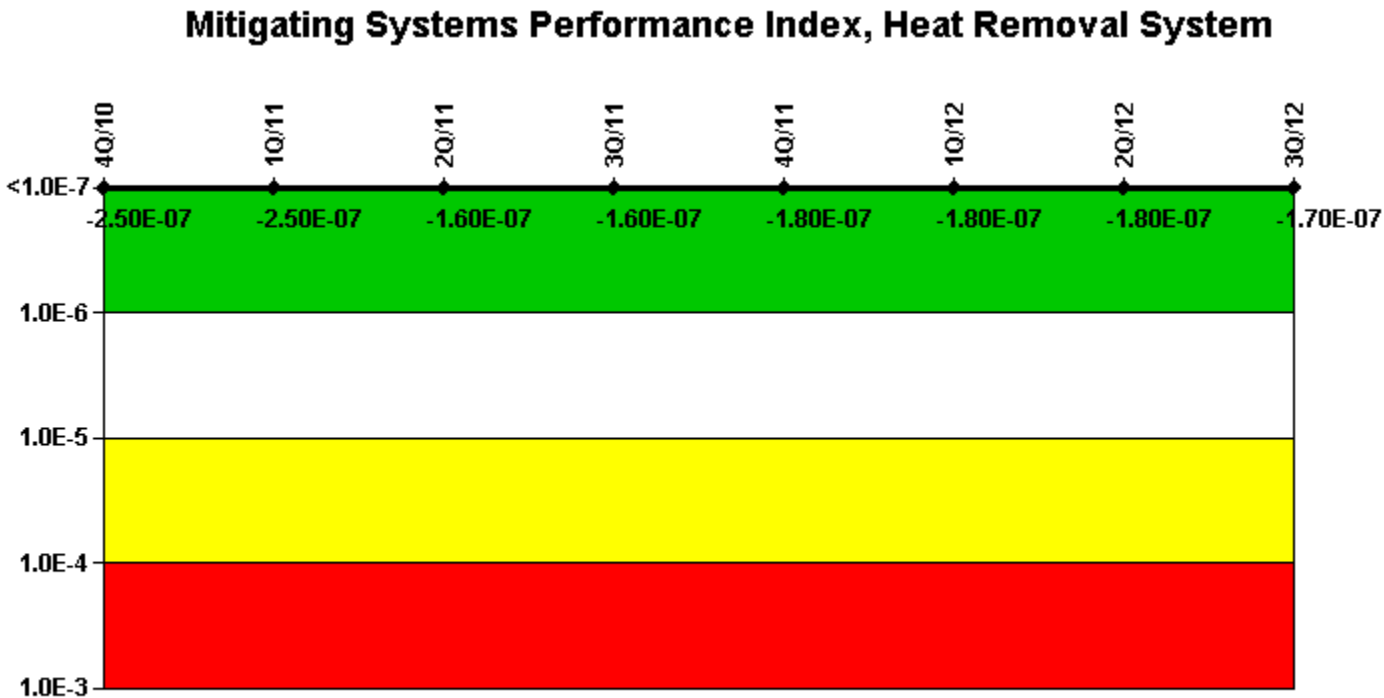
Notes

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)	-1.38E-08	7.23E-09	9.52E-10	-1.30E-08	-7.45E-08	-5.41E-08	-5.12E-08	-8.27E-08
URI (Δ CDF)	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	2.35E-07	2.35E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.80E-07	-2.60E-07	-2.60E-07	-2.80E-07	-3.40E-07	-3.20E-07	1.80E-07	1.50E-07

Licensee Comments:

3Q/12: Risk Cap Invoked.

2Q/12: Risk Cap Invoked.



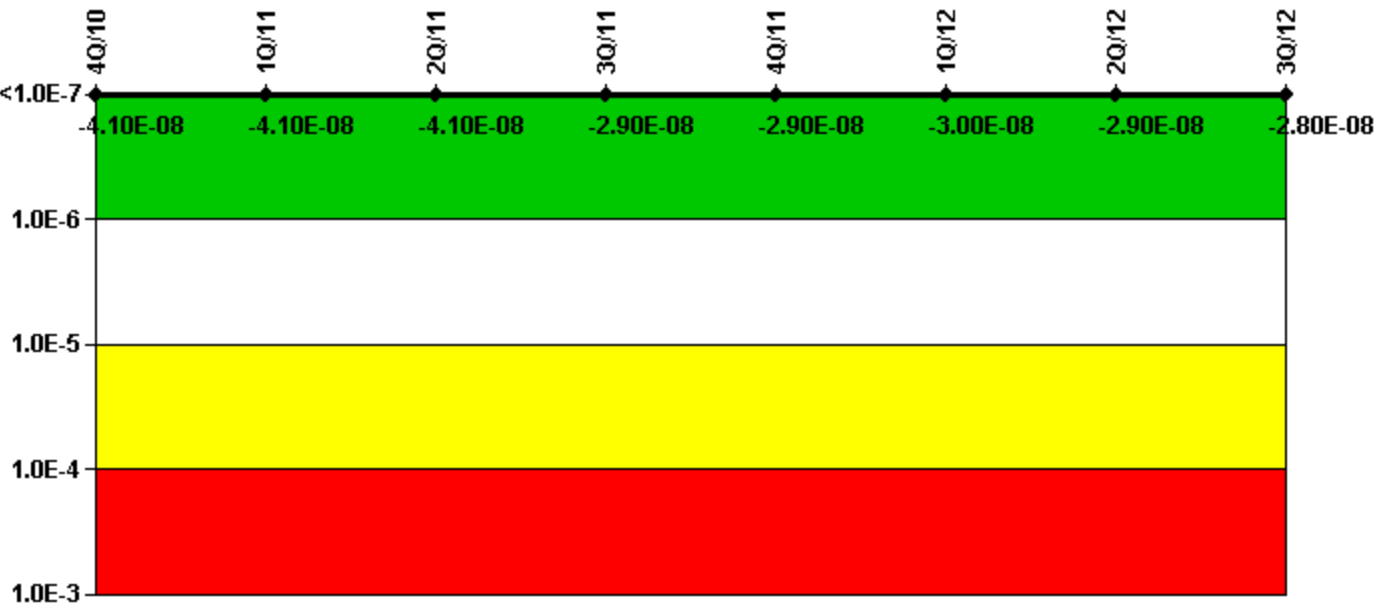
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	3.05E-08	3.21E-08	3.63E-08	3.73E-08	1.92E-08	1.82E-08	1.87E-08	3.35E-08
URI (ΔCDF)	-2.77E-07	-2.78E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-07	-2.50E-07	-1.60E-07	-1.60E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.70E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



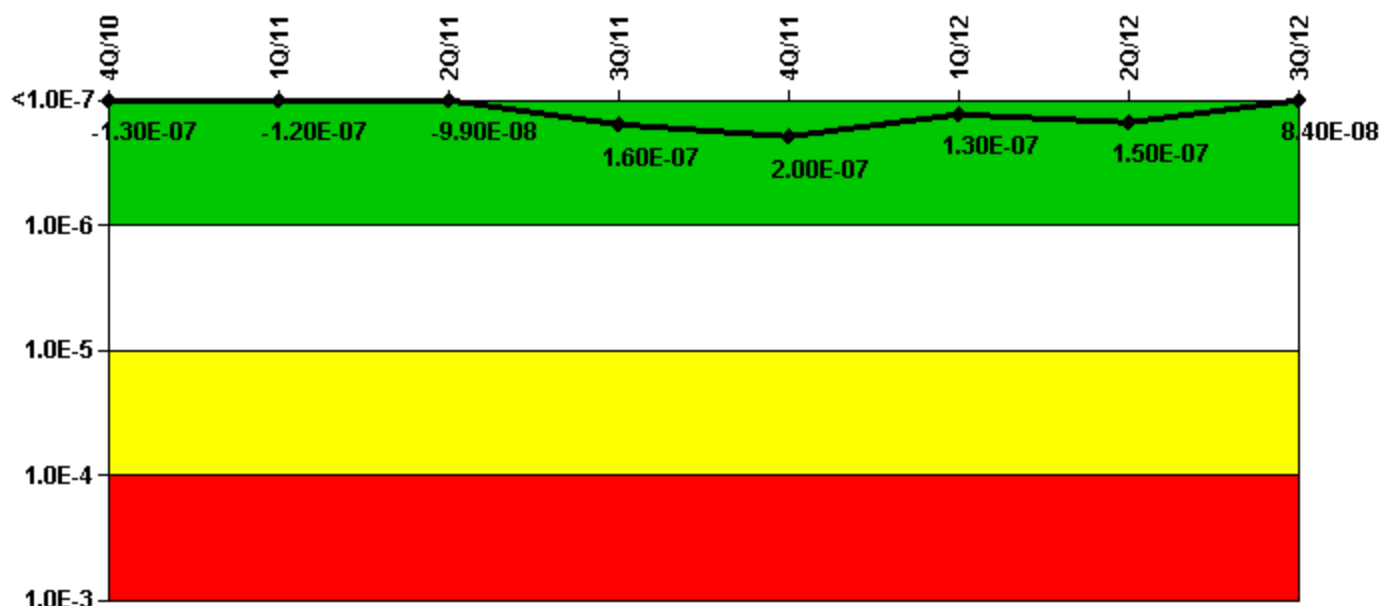
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	-4.08E-10	-3.96E-10	-4.52E-10	1.17E-08	1.11E-08	1.07E-08	1.16E-08	1.28E-08
URI (ΔCDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.10E-08	-4.10E-08	-4.10E-08	-2.90E-08	-2.90E-08	-3.00E-08	-2.90E-08	-2.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

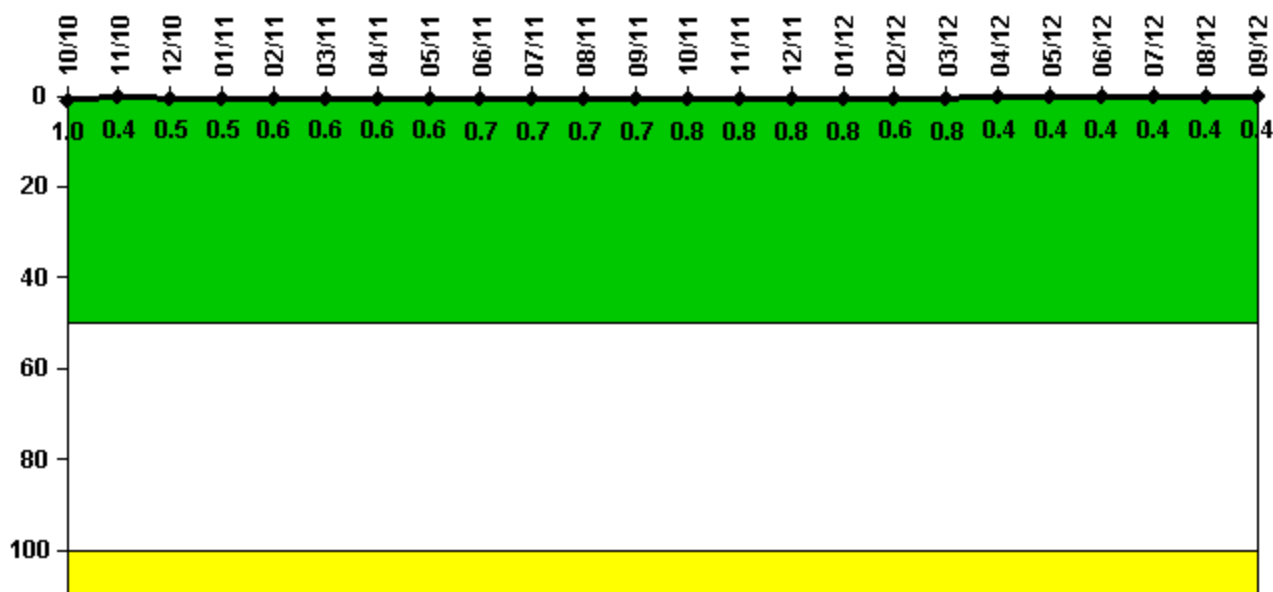
Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	5.98E-08	6.53E-08	8.72E-08	2.98E-07	3.44E-07	2.75E-07	2.97E-07	2.70E-07
URI (ΔCDF)	-1.87E-07	-1.87E-07	-1.87E-07	-1.42E-07	-1.42E-07	-1.42E-07	-1.42E-07	-1.87E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-07	-1.20E-07	-9.90E-08	1.60E-07	2.00E-07	1.30E-07	1.50E-07	8.40E-08

Licensee Comments:

1Q/12: MSPI Basis Document update made to address Frequently Asked Question (FAQ) 482 (11-01) "Cooling Water Boundary".

Reactor Coolant System Activity



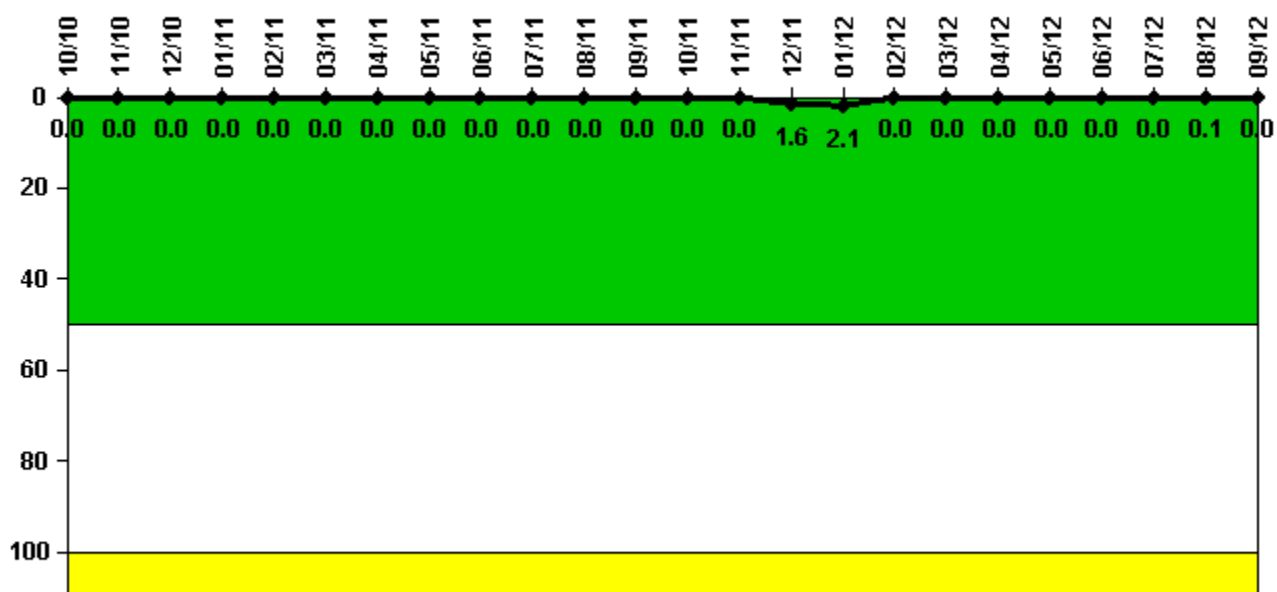
Thresholds: White > 50.0 Yellow > 100.0

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	0.010100	0.004300	0.005100	0.005050	0.005660	0.005970	0.005970	0.006320	0.006520	0.006810	0.007120	0.007170
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.0	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7
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	0.007630	0.007830	0.007790	0.008060	0.006240	0.007910	0.004180	0.003670	0.003660	0.003860	0.003940	0.004060
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.8	0.8	0.8	0.8	0.6	0.8	0.4	0.4	0.4	0.4	0.4	0.4

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

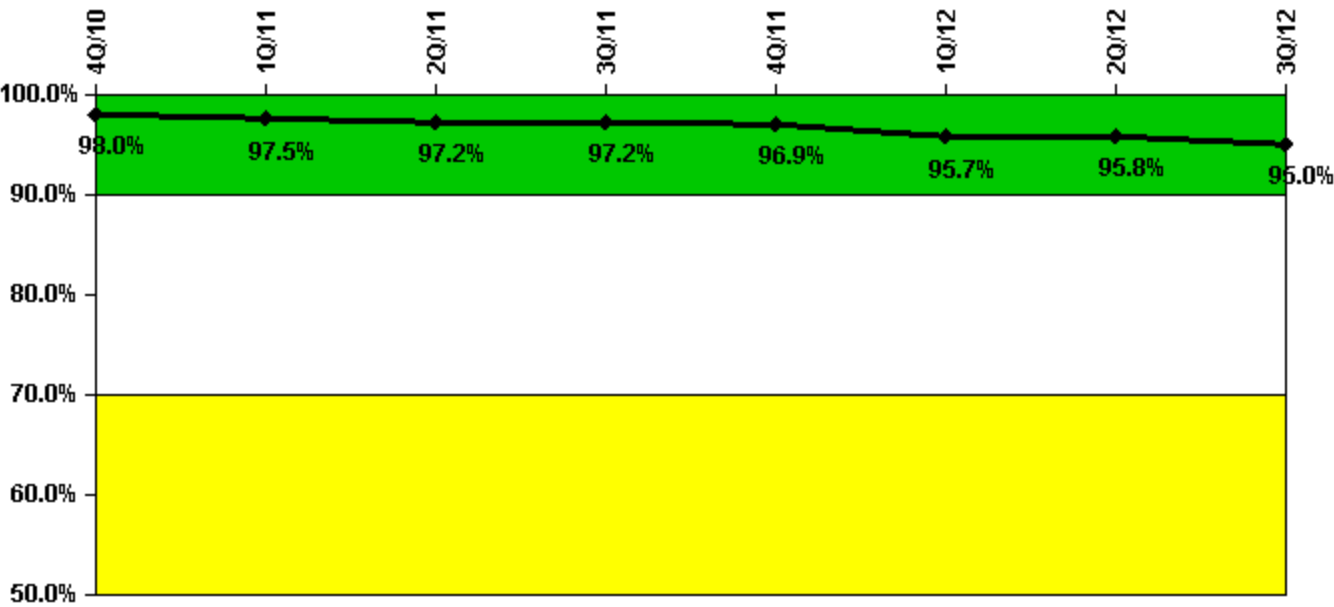
Notes

Reactor Coolant System Leakage	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum leakage	0.001	0.001	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Leakage	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum leakage	0.001	0.001	0.159	0.211	0.001	0.001	0.001	0.001	0.001	0.001	0.008	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	1.6	2.1	0	0	0	0	0	0	0.1	0

Licensee Comments: none

Drill/Exercise Performance



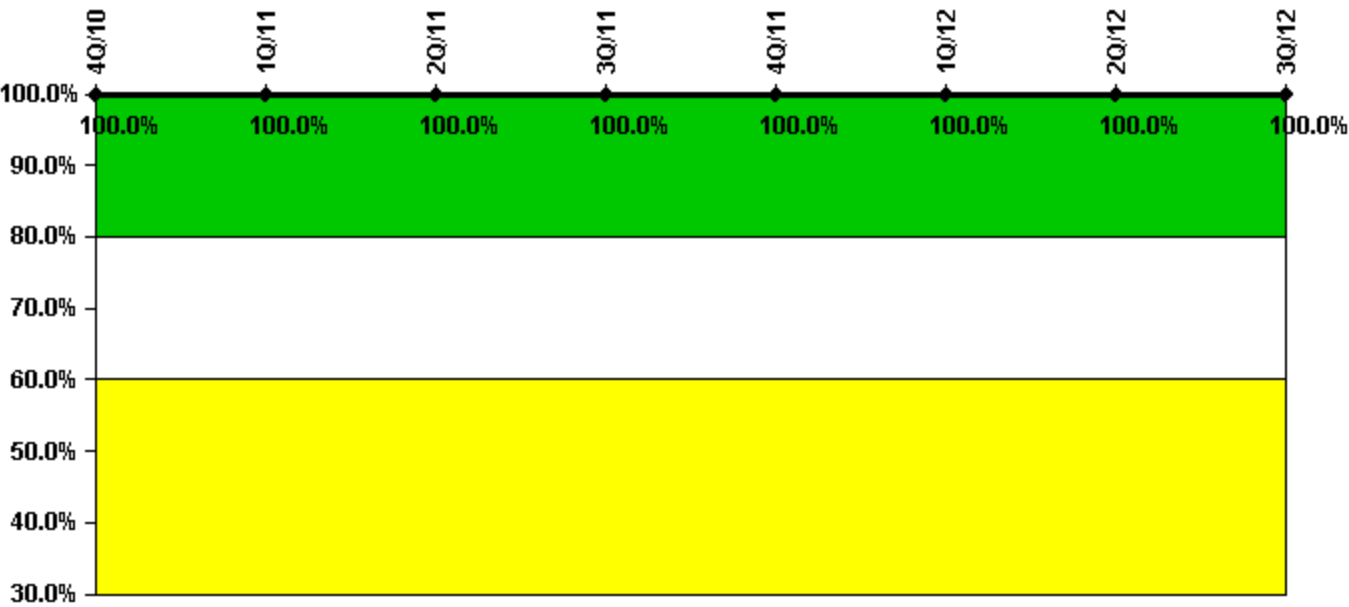
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful opportunities	32.0	77.0	50.0	24.0	19.0	34.0	16.0	35.0
Total opportunities	32.0	80.0	52.0	25.0	20.0	37.0	17.0	39.0
Indicator value	98.0%	97.5%	97.2%	97.2%	96.9%	95.7%	95.8%	95.0%

Licensee Comments: none

ERO Drill Participation



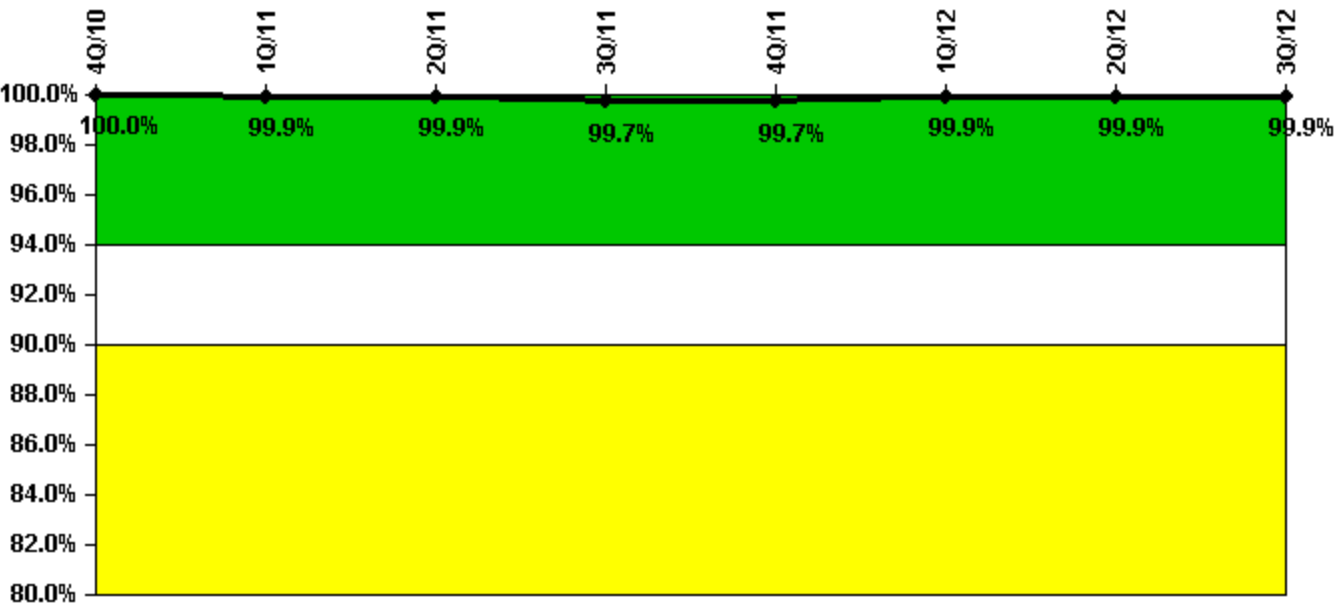
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Participating Key personnel	81.0	80.0	82.0	85.0	87.0	85.0	86.0	80.0
Total Key personnel	81.0	80.0	82.0	85.0	87.0	85.0	86.0	80.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



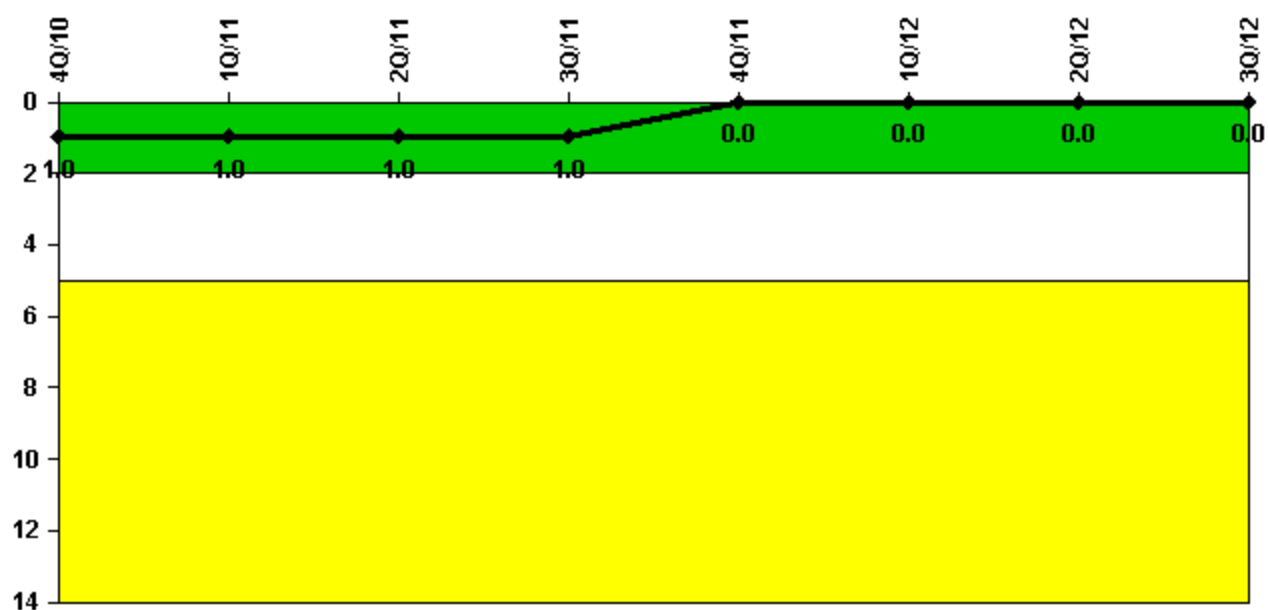
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful siren-tests	183	182	183	182	183	183	183	182
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	100.0%	99.9%	99.9%	99.7%	99.7%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



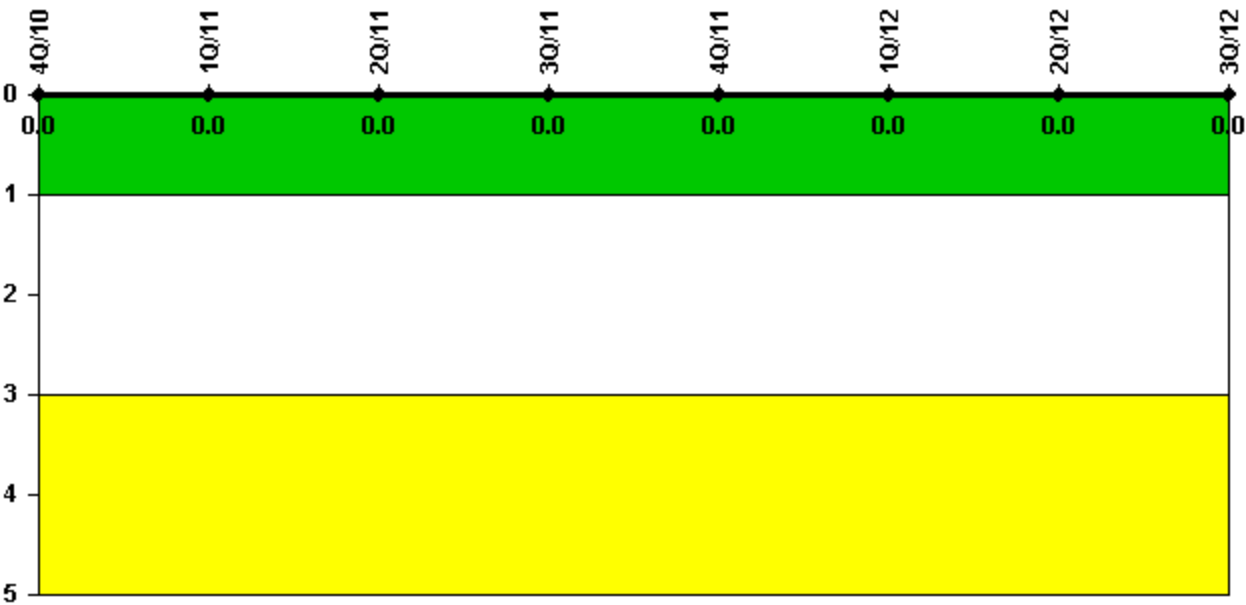
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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	1	0	0	0	0	0	0	0
Indicator value	1	1	1	1	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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](#)

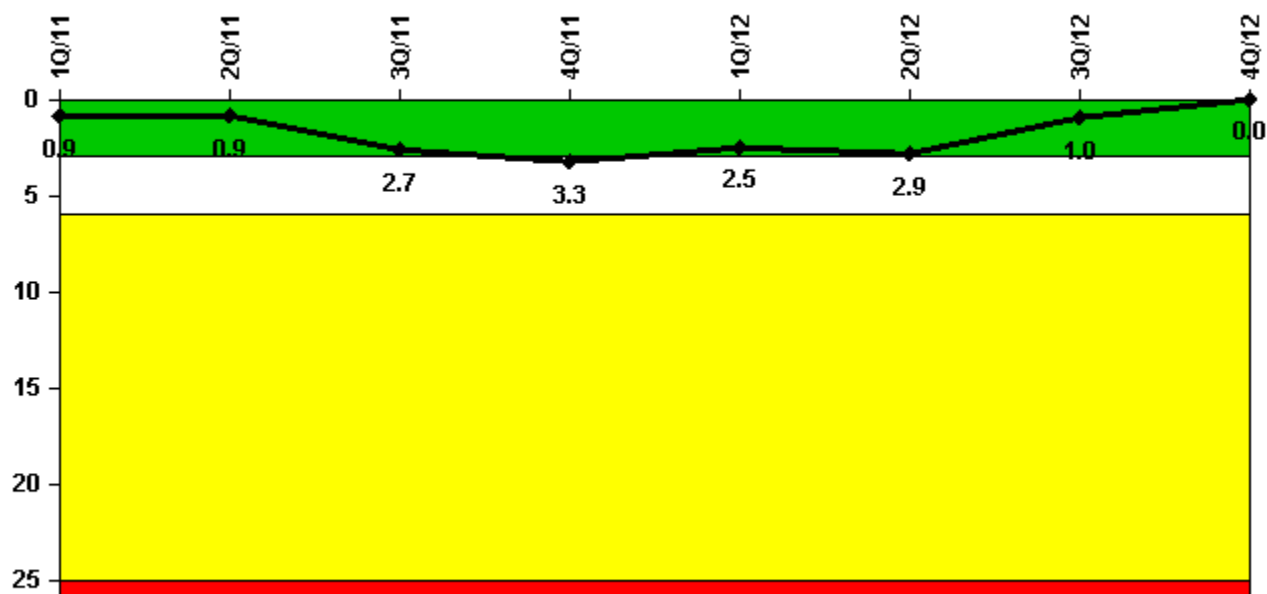
Last Modified: October 24, 2012

Palisades

4Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



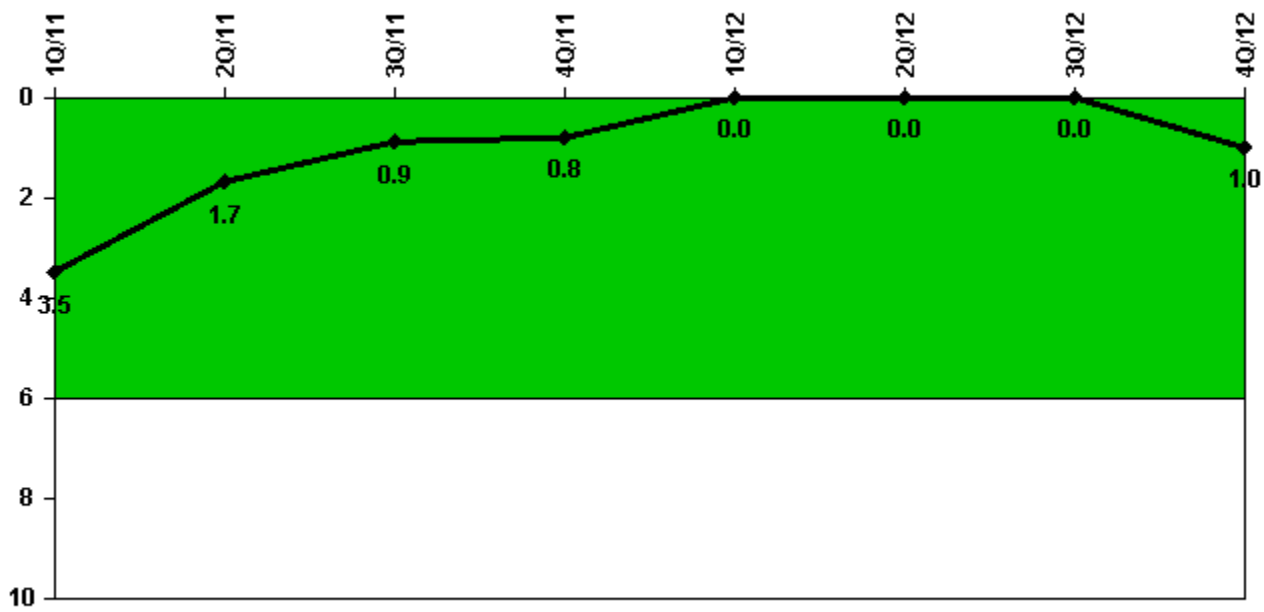
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	2.0	1.0	0	0	0	0
Critical hours	2111.3	2184.0	1998.9	2160.5	2108.4	965.4	1544.8	2151.5
Indicator value	0.9	0.9	2.7	3.3	2.5	2.9	1.0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



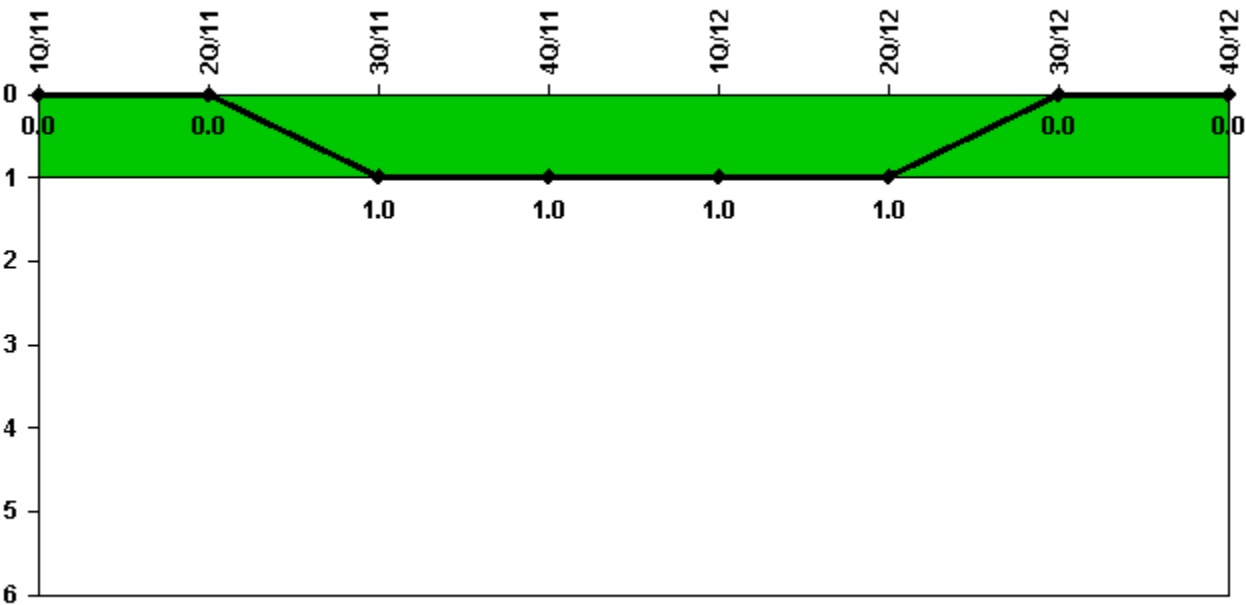
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned power changes	1.0	0	0	0	0	0	0	1.0
Critical hours	2111.3	2184.0	1998.9	2160.5	2108.4	965.4	1544.8	2151.5
Indicator value	3.5	1.7	0.9	0.8	0	0	0	1.0

Licensee Comments: none

Unplanned Scrams with Complications



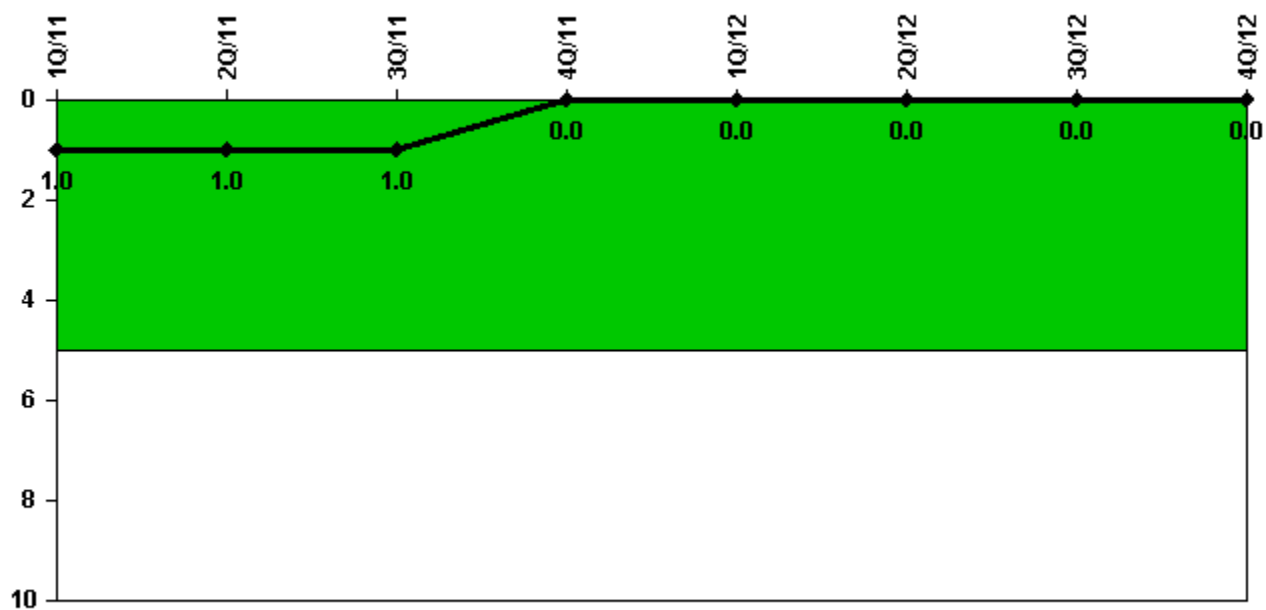
Thresholds: White > 1.0

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	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)



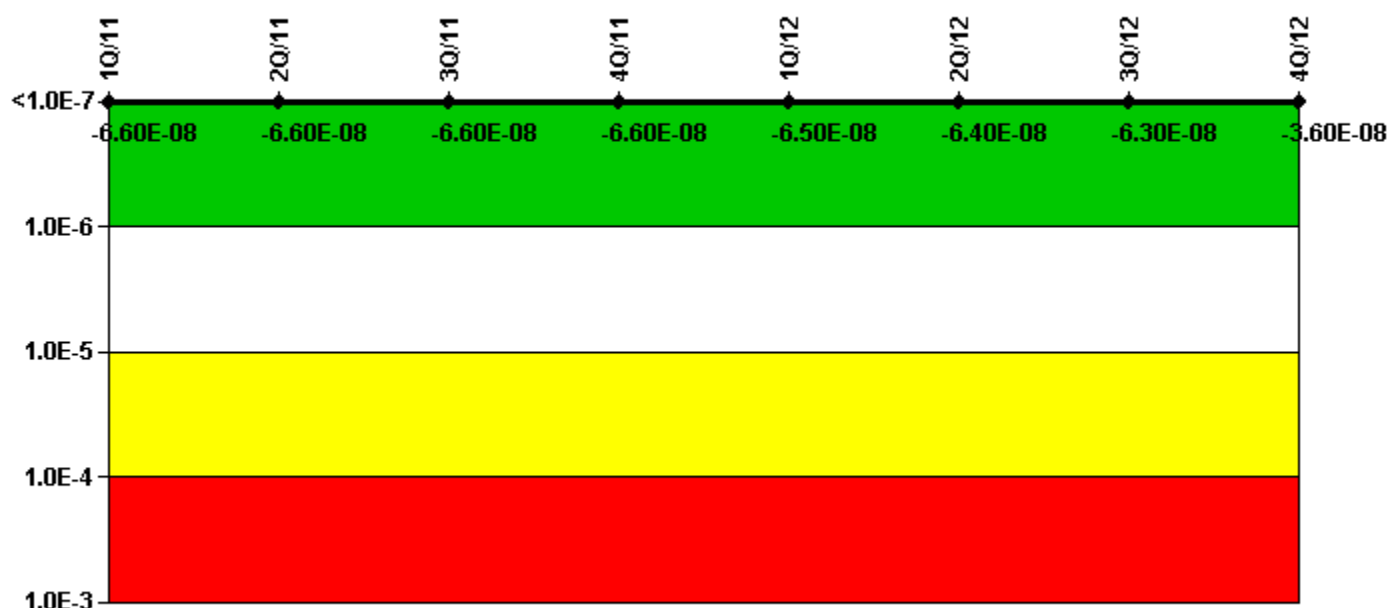
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.35E-08	-2.34E-08	2.06E-09
URI (Δ CDF)	-4.25E-08	-4.25E-08	-4.25E-08	-4.25E-08	-4.15E-08	-4.04E-08	-3.94E-08	-3.83E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.60E-08	-6.60E-08	-6.60E-08	-6.60E-08	-6.50E-08	-6.40E-08	-6.30E-08	-3.60E-08

Licensee Comments:

1Q/12: MSPI Basis Document update made to address Frequently Asked Question (FAQ) 484 (11-07) "FOTP Failures" and FAQ 480 (11-06) "EDG Run Hour Reporting". Revised Emergency Diesel Generator load demand and run-time estimates due to FAQ 480.

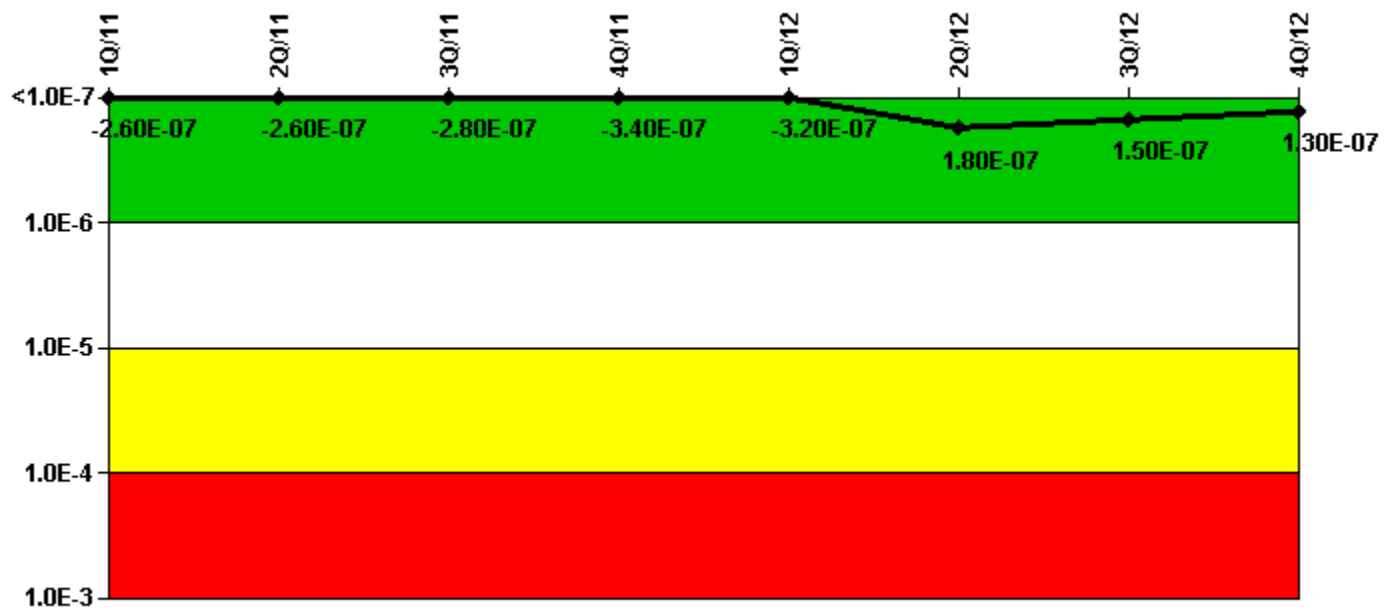
4Q/11: Evaluation of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage from April 2011 concluded No MSPI Failure occurred. (Reference CR-PLP-2011-01933)

3Q/11: Evaluation is pending of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage identified in April 2011. (Reference CR-PLP-2011-01933)

2Q/11: Evaluation is pending of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage identified in April 2011. (Reference CR-PLP-2011-01933)

1Q/11: Evaluation on Emergency Diesel Generator K-6AG turbocharger support cracking identified in November 2010 concluded No MSPI Failure occurred. (Reference CR-PLP-2010-05859)

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)	7.23E-09	9.52E-10	-1.30E-08	-7.45E-08	-5.41E-08	-5.12E-08	-8.27E-08	-1.03E-07
URI (Δ CDF)	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	2.35E-07	2.35E-07	2.35E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.60E-07	-2.60E-07	-2.80E-07	-3.40E-07	-3.20E-07	1.80E-07	1.50E-07	1.30E-07

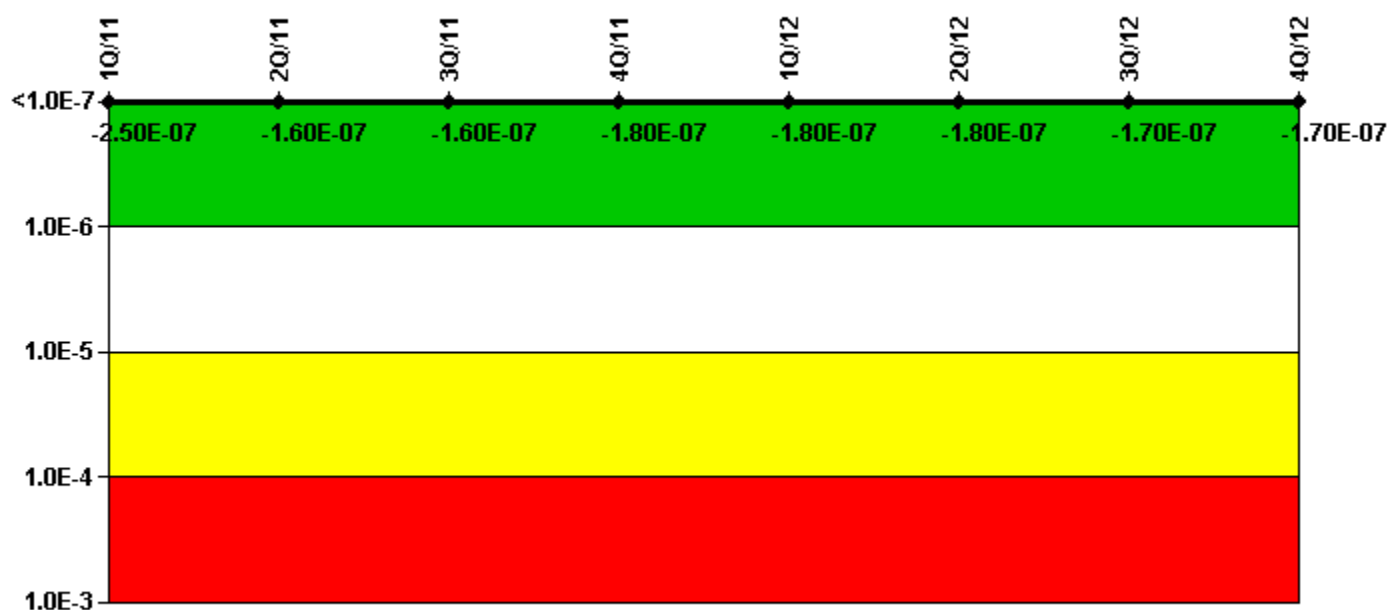
Licensee Comments:

4Q/12: Risk Cap Invoked.

3Q/12: Risk Cap Invoked.

2Q/12: Risk Cap Invoked.

Mitigating Systems Performance Index, Heat Removal System



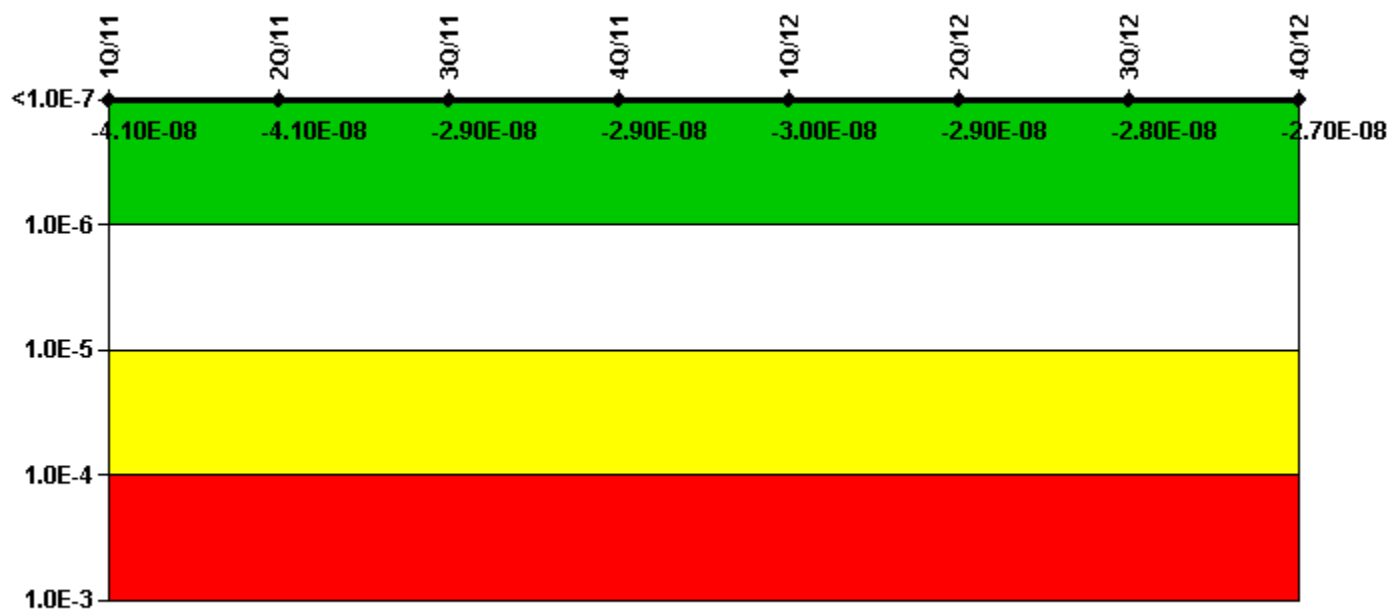
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	3.21E-08	3.63E-08	3.73E-08	1.92E-08	1.82E-08	1.87E-08	3.35E-08	3.15E-08
URI (Δ CDF)	-2.78E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-07	-1.60E-07	-1.60E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.70E-07	-1.70E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



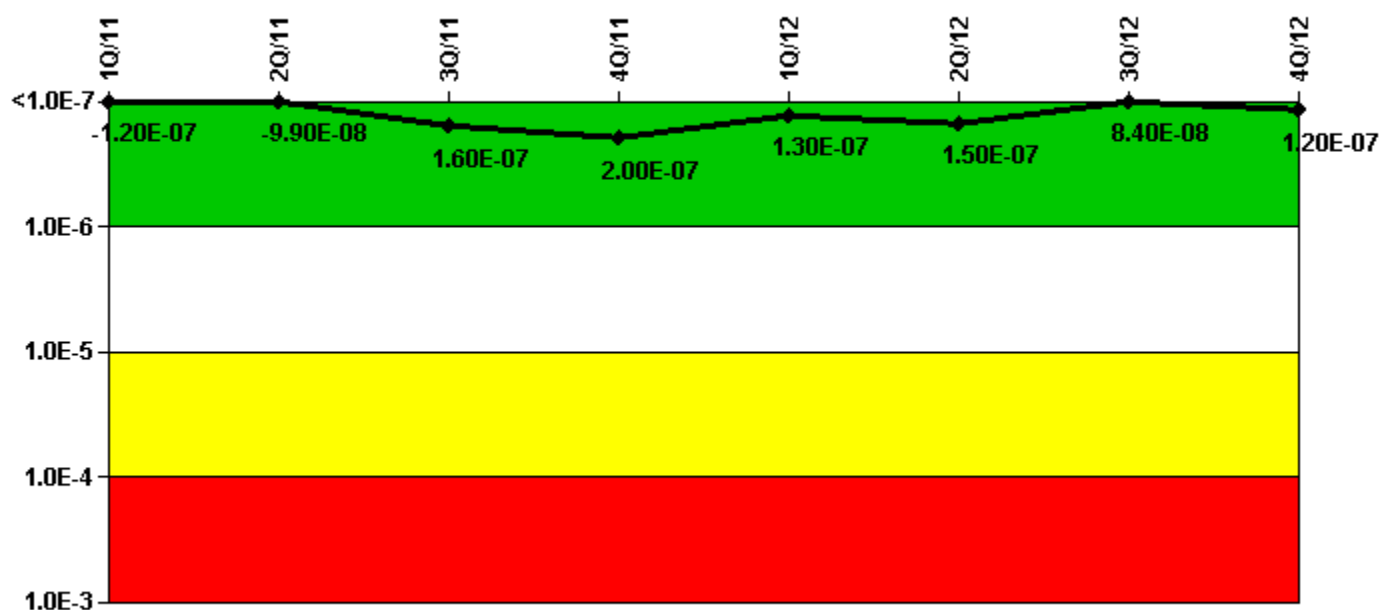
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	-3.96E-10	-4.52E-10	1.17E-08	1.11E-08	1.07E-08	1.16E-08	1.28E-08	1.29E-08
URI (Δ CDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.10E-08	-4.10E-08	-2.90E-08	-2.90E-08	-3.00E-08	-2.90E-08	-2.80E-08	-2.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

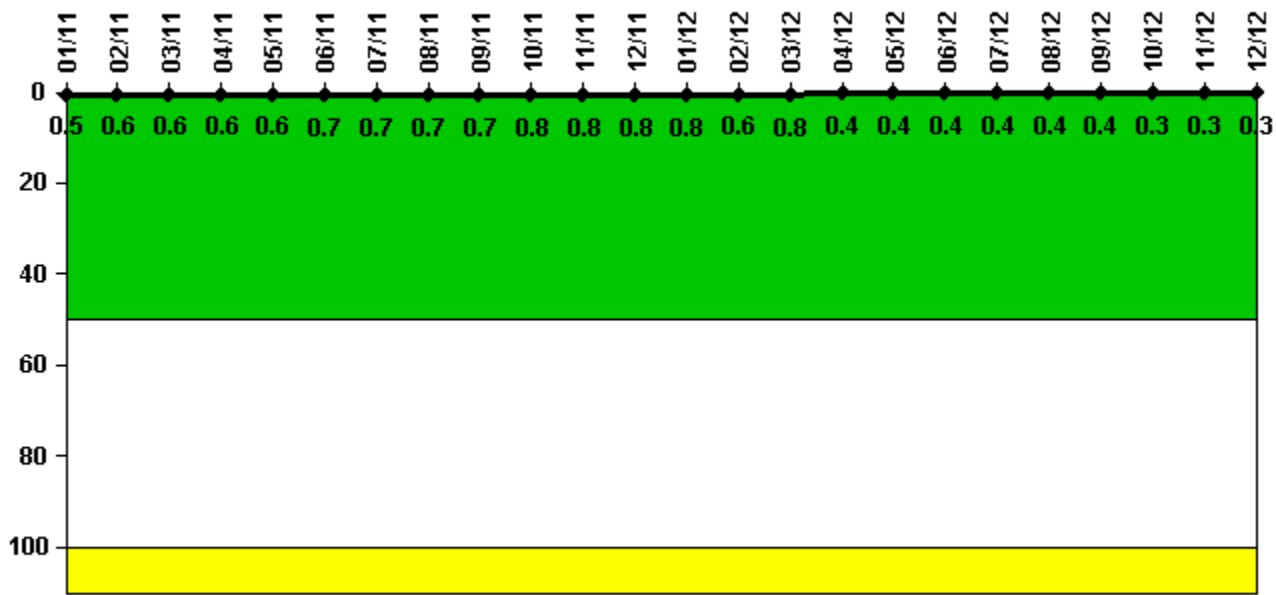
Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (ΔCDF)	6.53E-08	8.72E-08	2.98E-07	3.44E-07	2.75E-07	2.97E-07	2.70E-07	3.07E-07
URI (ΔCDF)	-1.87E-07	-1.87E-07	-1.42E-07	-1.42E-07	-1.42E-07	-1.42E-07	-1.87E-07	-1.87E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-07	-9.90E-08	1.60E-07	2.00E-07	1.30E-07	1.50E-07	8.40E-08	1.20E-07

Licensee Comments:

1Q/12: MSPI Basis Document update made to address Frequently Asked Question (FAQ) 482 (11-01) "Cooling Water Boundary".

Reactor Coolant System Activity



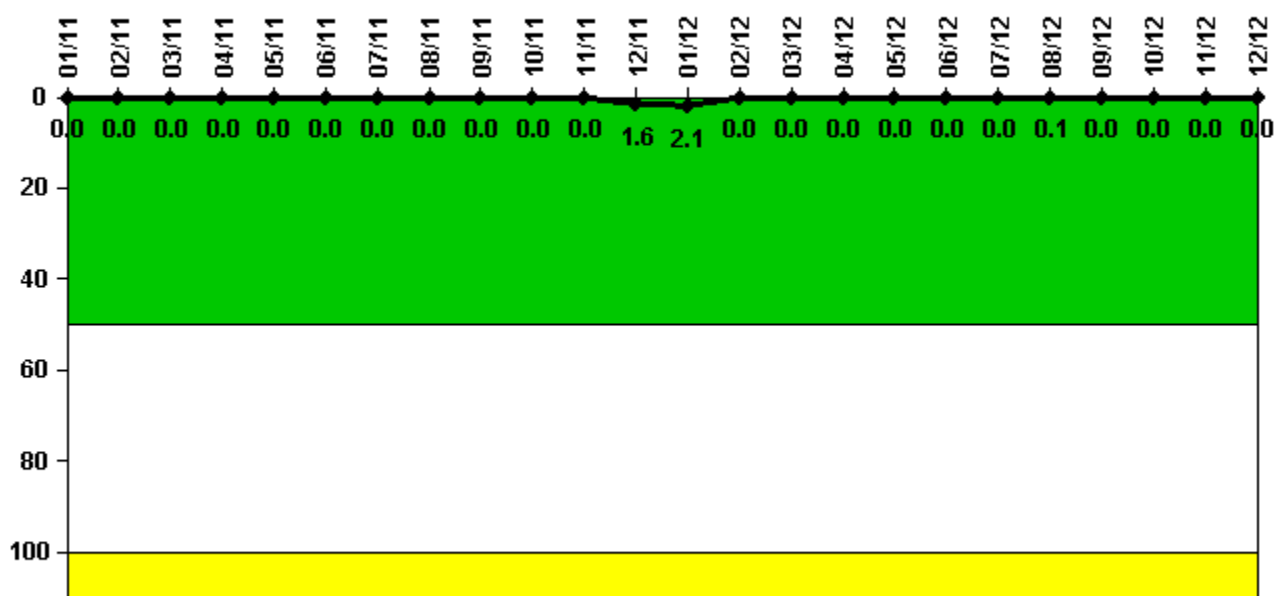
Thresholds: White > 50.0 Yellow > 100.0

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	0.005050	0.005660	0.005970	0.005970	0.006320	0.006520	0.006810	0.007120	0.007170	0.007630	0.007830	0.007790
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.5	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.8
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	0.008060	0.006240	0.007910	0.004180	0.003670	0.003660	0.003860	0.003940	0.004060	0.003050	0.003310	0.003360
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.8	0.6	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3

Licensee Comments: none

Reactor Coolant System Leakage



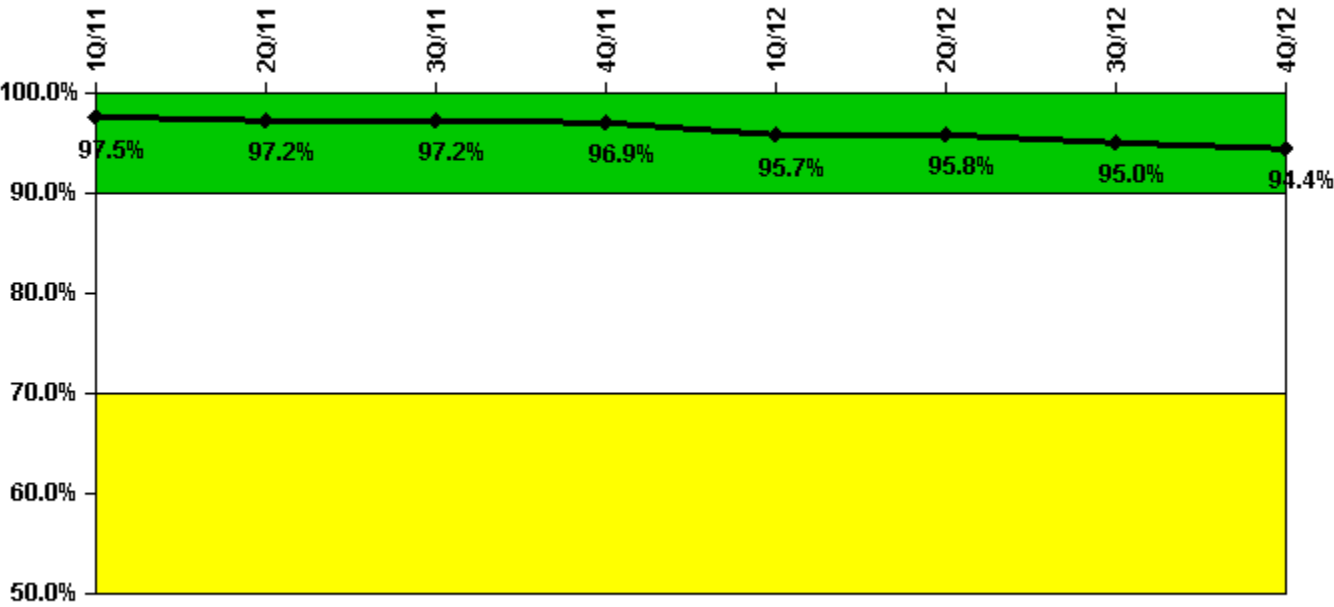
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum leakage	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.159
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	1.6
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	0.211	0.001	0.001	0.001	0.001	0.001	0.001	0.008	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.1	0	0	0	0	0	0	0.1	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



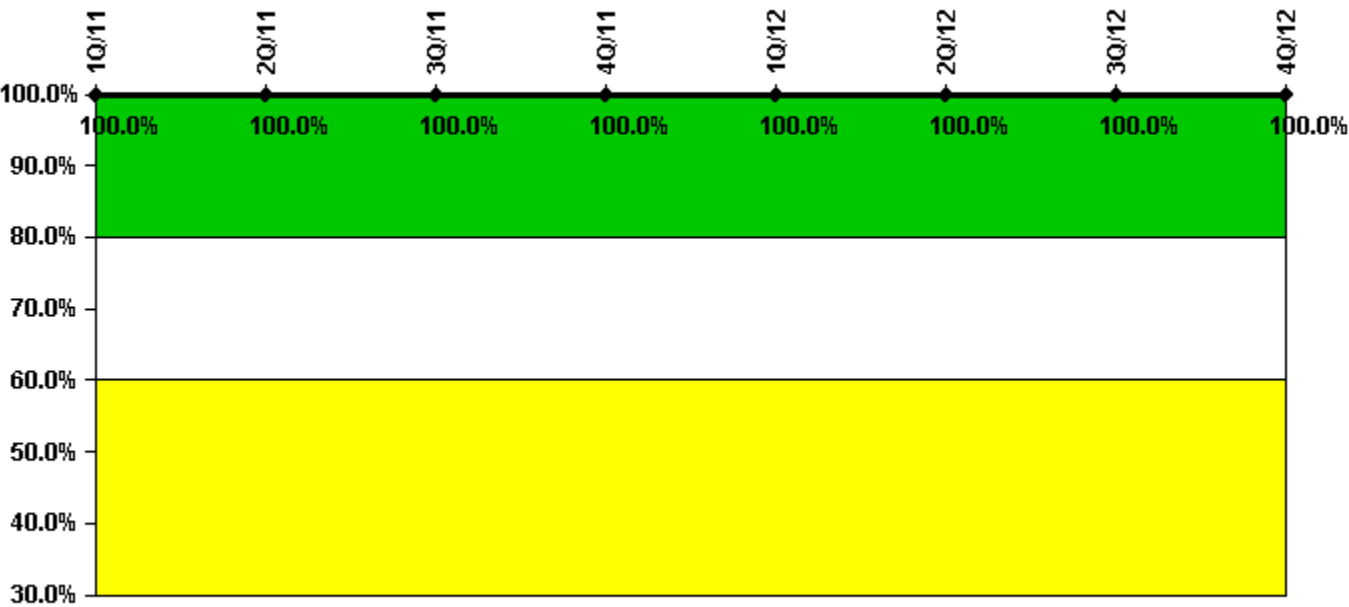
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful opportunities	77.0	50.0	24.0	19.0	34.0	16.0	35.0	30.0
Total opportunities	80.0	52.0	25.0	20.0	37.0	17.0	39.0	32.0
Indicator value	97.5%	97.2%	97.2%	96.9%	95.7%	95.8%	95.0%	94.4%

Licensee Comments: none

ERO Drill Participation



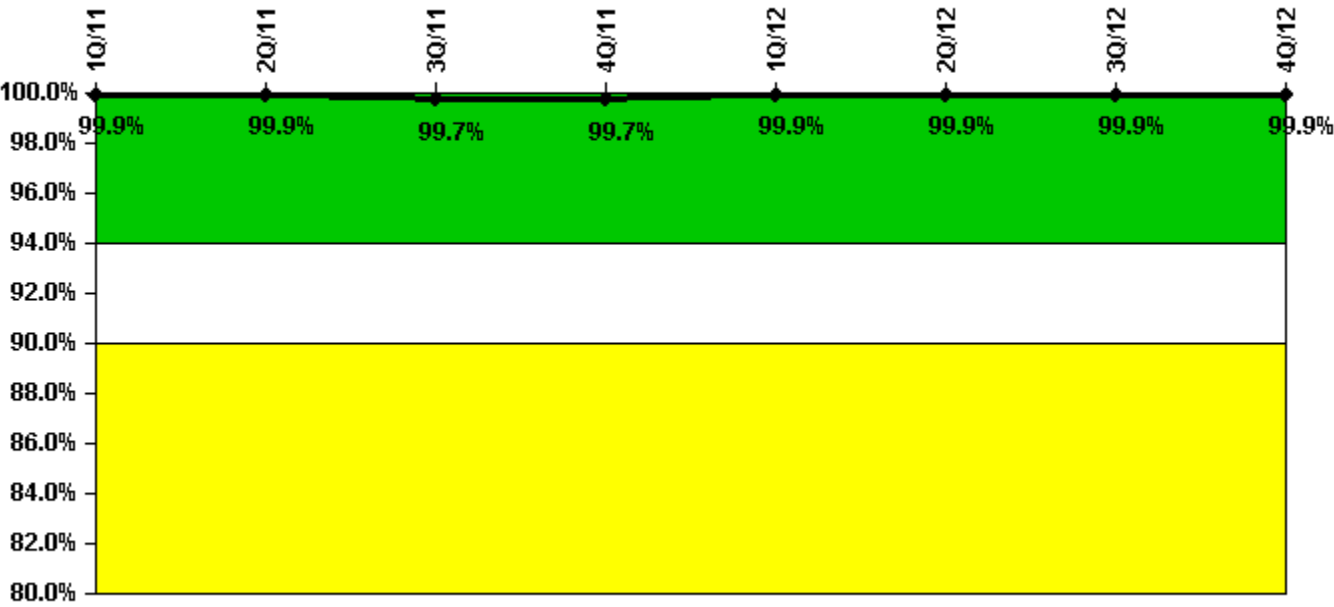
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Participating Key personnel	80.0	82.0	85.0	85.0	83.0	84.0	80.0	80.0
Total Key personnel	80.0	82.0	85.0	85.0	83.0	84.0	80.0	80.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



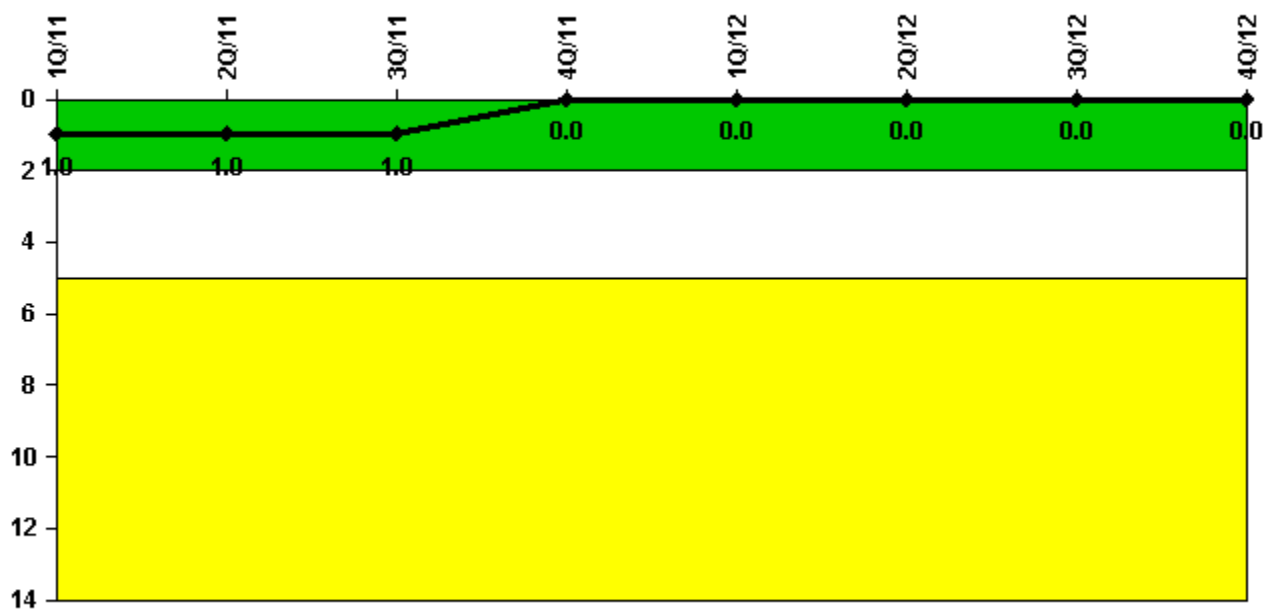
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful siren-tests	182	183	182	183	183	183	182	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.9%	99.9%	99.7%	99.7%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness

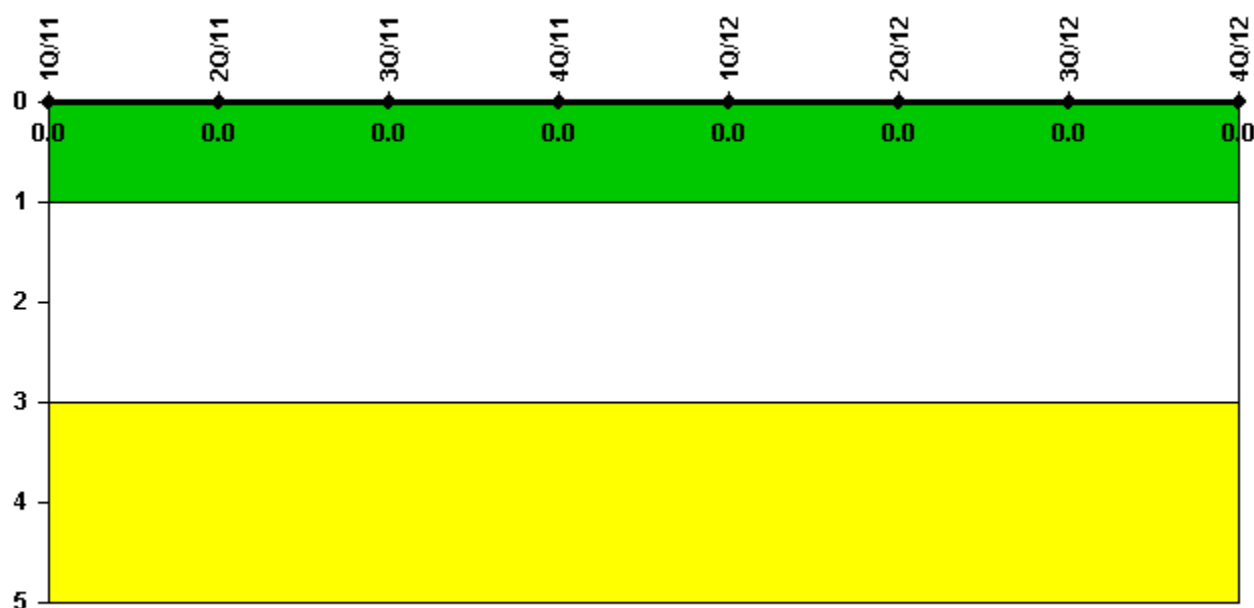


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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	1	1	1	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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

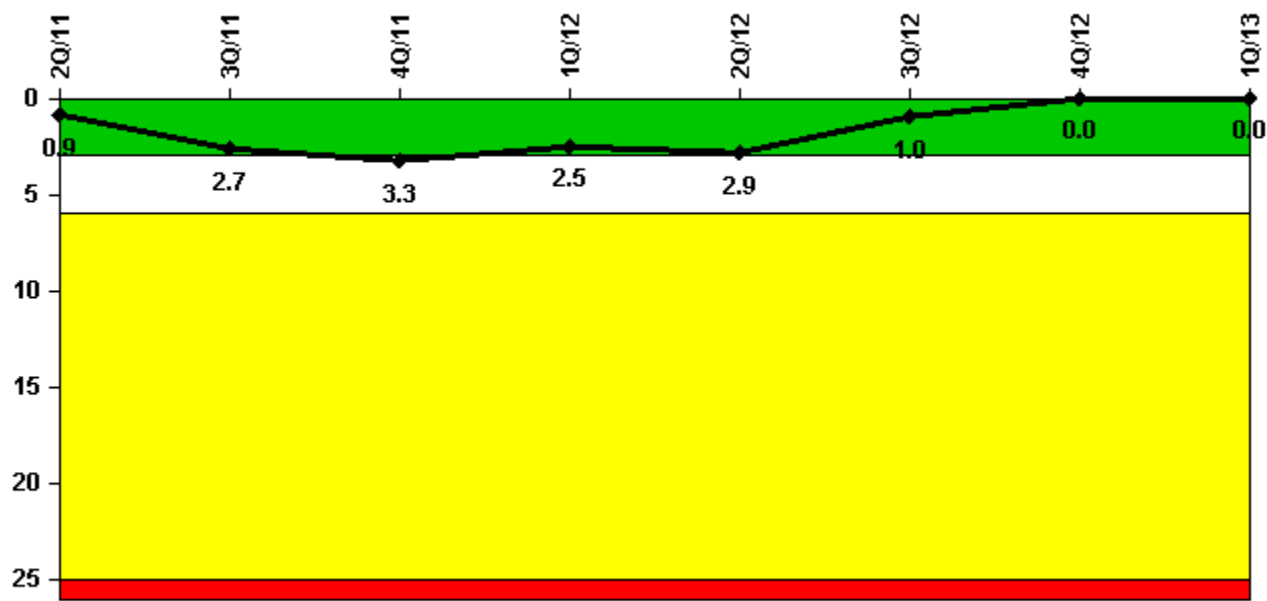
Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information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

Palisades

1Q/2013 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



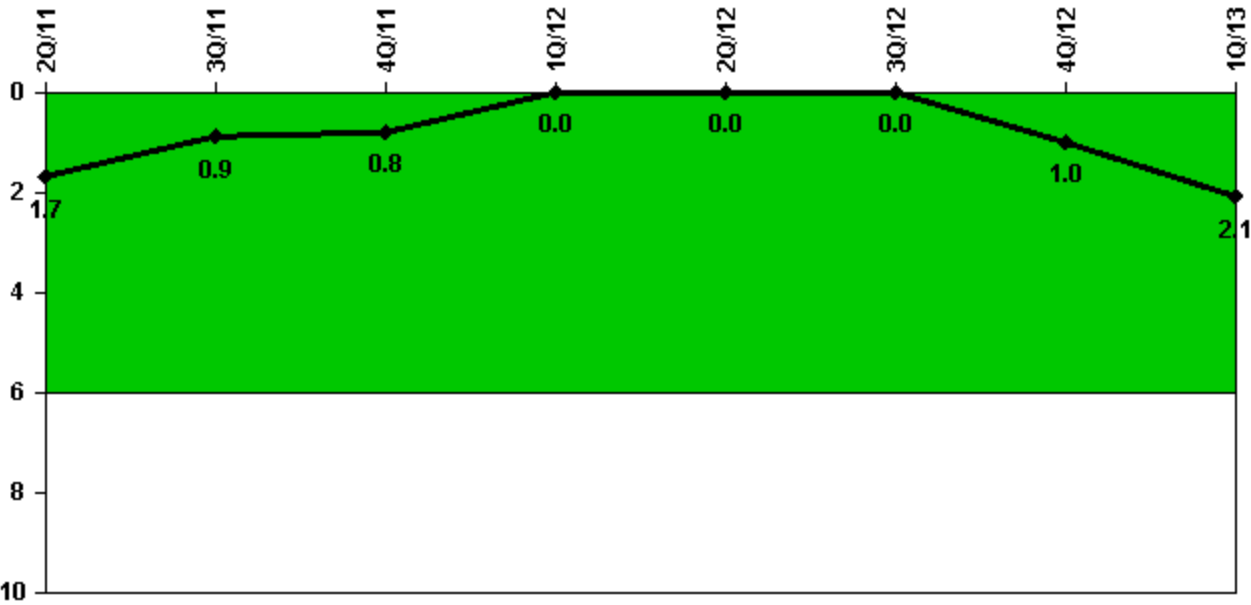
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned scrams	0	2.0	1.0	0	0	0	0	0
Critical hours	2184.0	1998.9	2160.5	2108.4	965.4	1544.8	2151.5	2017.0
Indicator value	0.9	2.7	3.3	2.5	2.9	1.0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



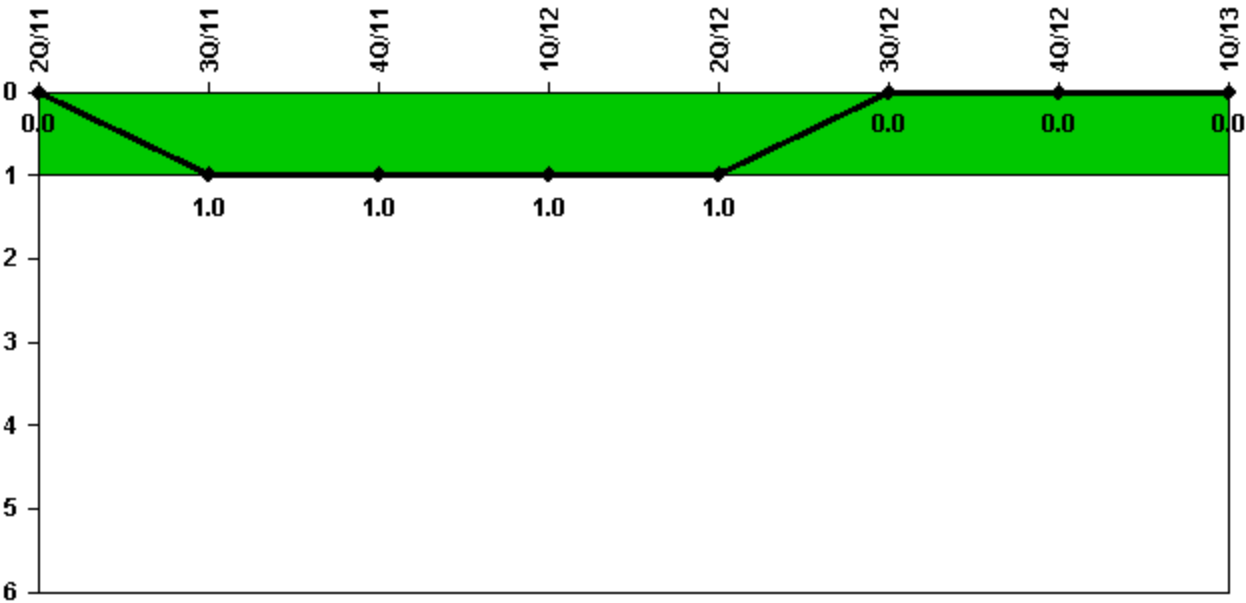
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned power changes	0	0	0	0	0	0	1.0	1.0
Critical hours	2184.0	1998.9	2160.5	2108.4	965.4	1544.8	2151.5	2017.0
Indicator value	1.7	0.9	0.8	0	0	0	1.0	2.1

Licensee Comments: none

Unplanned Scrams with Complications



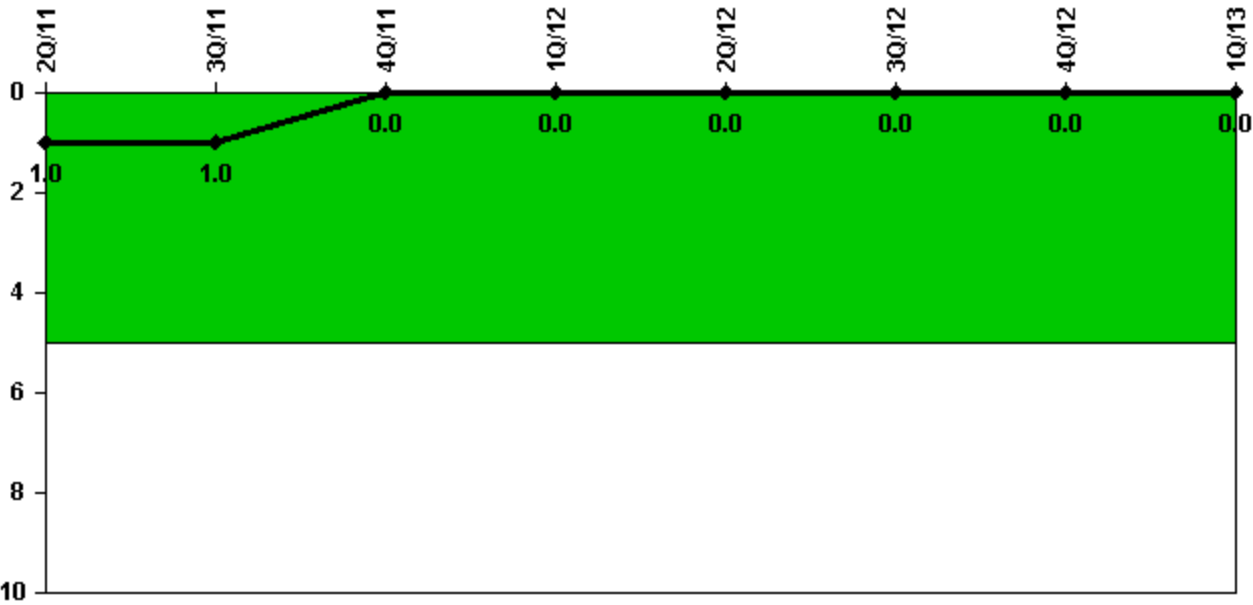
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Scrams with complications	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)



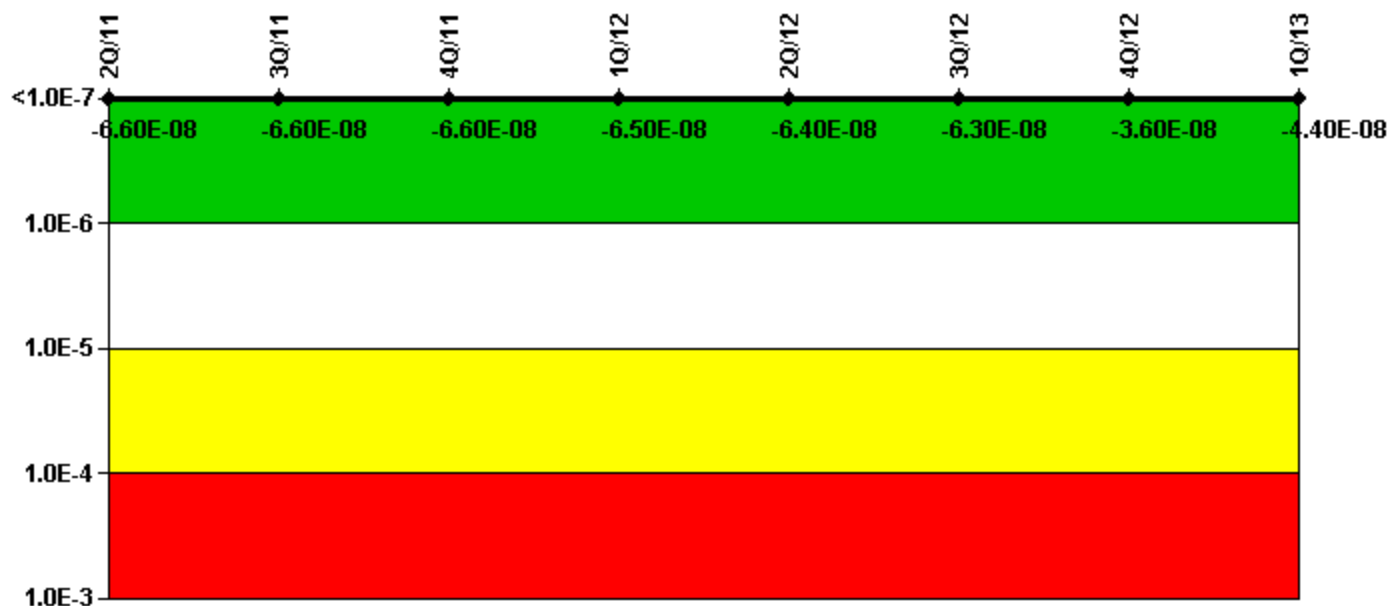
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	1	1	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	-2.36E-08	-2.36E-08	-2.36E-08	-2.36E-08	-2.35E-08	-2.34E-08	2.06E-09	-6.50E-09
URI (Δ CDF)	-4.25E-08	-4.25E-08	-4.25E-08	-4.15E-08	-4.04E-08	-3.94E-08	-3.83E-08	-3.72E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.60E-08	-6.60E-08	-6.60E-08	-6.50E-08	-6.40E-08	-6.30E-08	-3.60E-08	-4.40E-08

Licensee Comments:

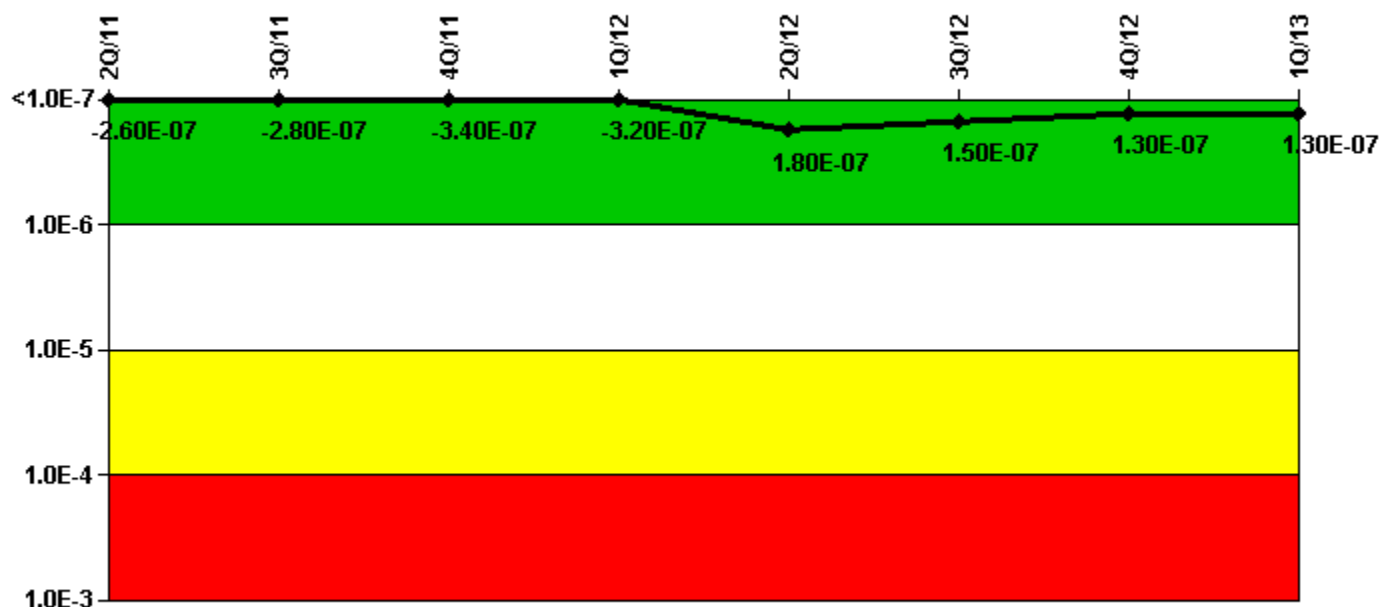
1Q/12: MSPI Basis Document update made to address Frequently Asked Question (FAQ) 484 (11-07) "FOTP Failures" and FAQ 480 (11-06) "EDG Run Hour Reporting". Revised Emergency Diesel Generator load demand and run-time estimates due to FAQ 480.

4Q/11: Evaluation of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage from April 2011 concluded No MSPI Failure occurred. (Reference CR-PLP-2011-01933)

3Q/11: Evaluation is pending of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage identified in April 2011. (Reference CR-PLP-2011-01933)

2Q/11: Evaluation is pending of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage identified in April 2011. (Reference CR-PLP-2011-01933)

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)	9.52E-10	-1.30E-08	-7.45E-08	-5.41E-08	-5.12E-08	-8.27E-08	-1.03E-07	-1.03E-07
URI (Δ CDF)	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.60E-07	-2.80E-07	-3.40E-07	-3.20E-07	1.80E-07	1.50E-07	1.30E-07	1.30E-07

Licensee Comments:

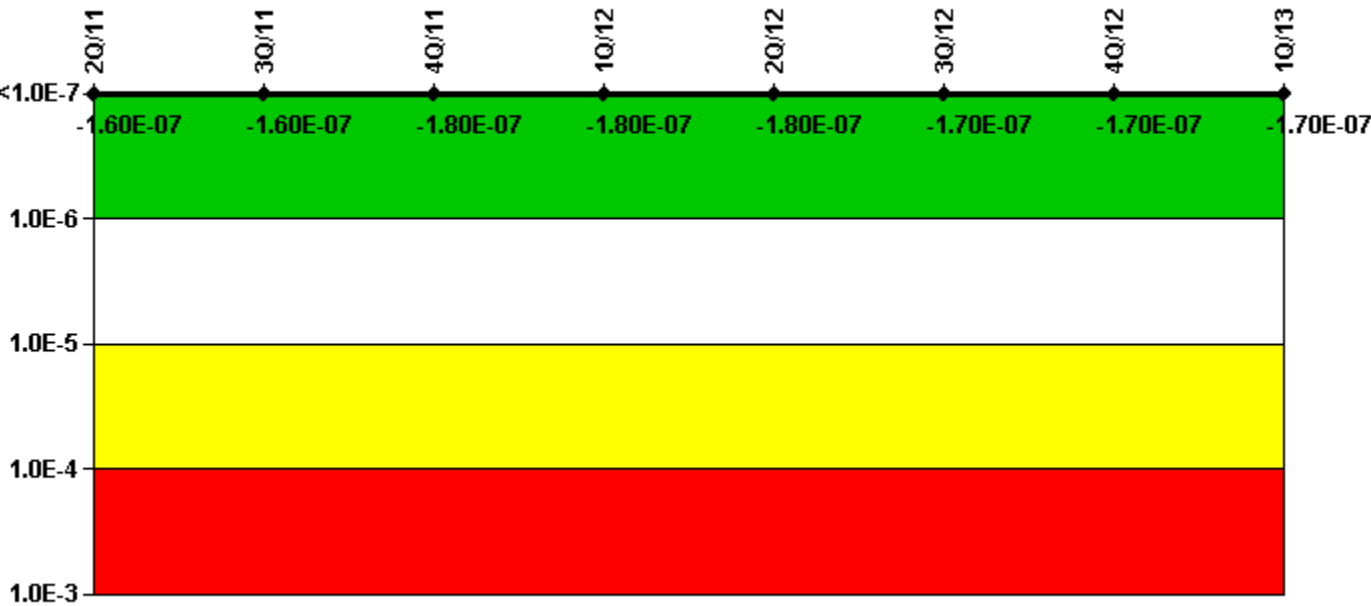
1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked.

3Q/12: Risk Cap Invoked.

2Q/12: Risk Cap Invoked.

Mitigating Systems Performance Index, Heat Removal System



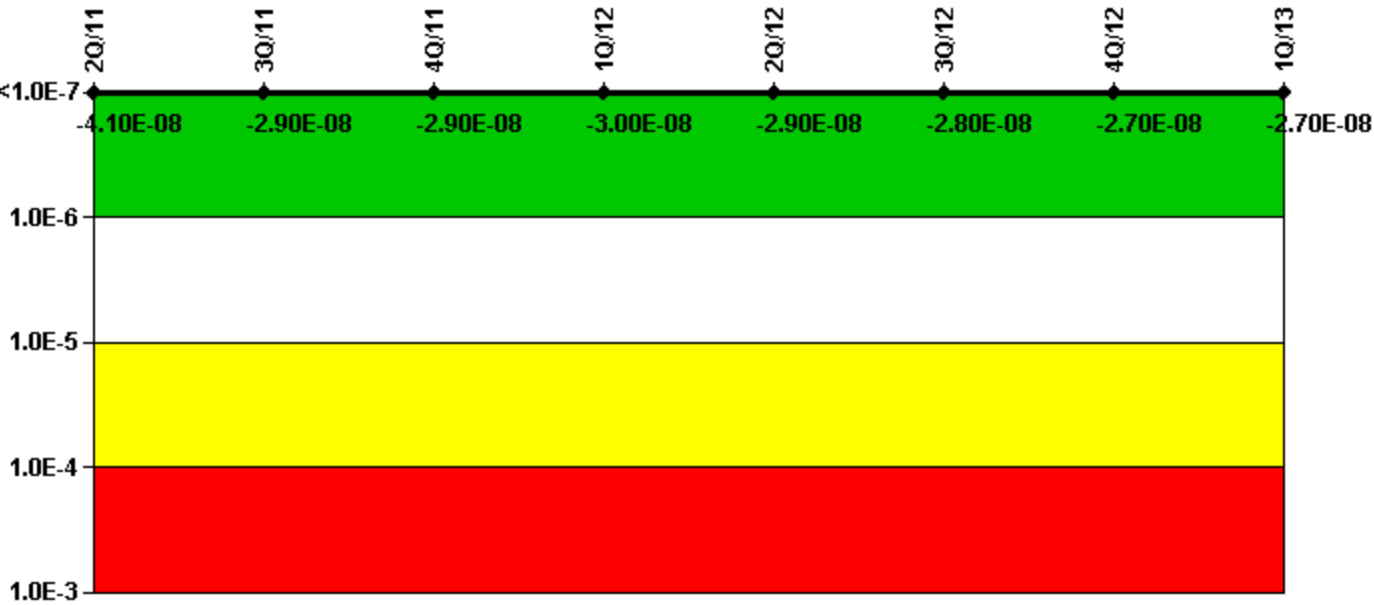
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (ΔCDF)	3.63E-08	3.73E-08	1.92E-08	1.82E-08	1.87E-08	3.35E-08	3.15E-08	3.26E-08
URI (ΔCDF)	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-07	-1.60E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.70E-07	-1.70E-07	-1.70E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



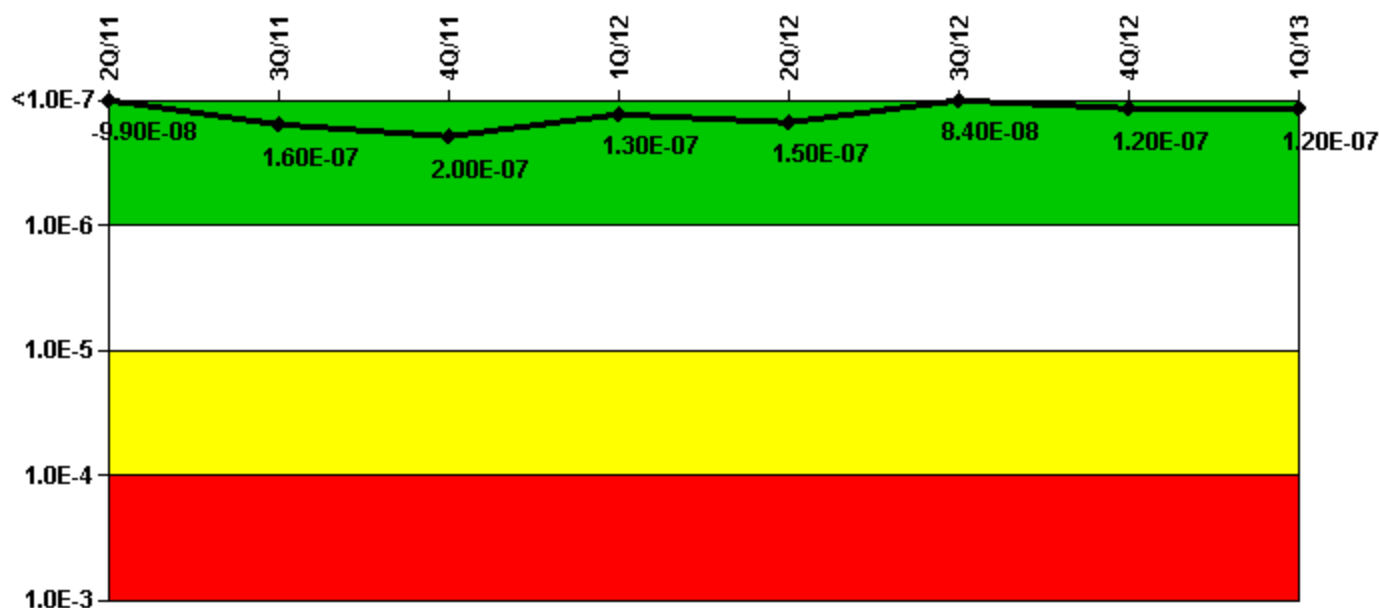
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (ΔCDF)	-4.52E-10	1.17E-08	1.11E-08	1.07E-08	1.16E-08	1.28E-08	1.29E-08	1.32E-08
URI (ΔCDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.10E-08	-2.90E-08	-2.90E-08	-3.00E-08	-2.90E-08	-2.80E-08	-2.70E-08	-2.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

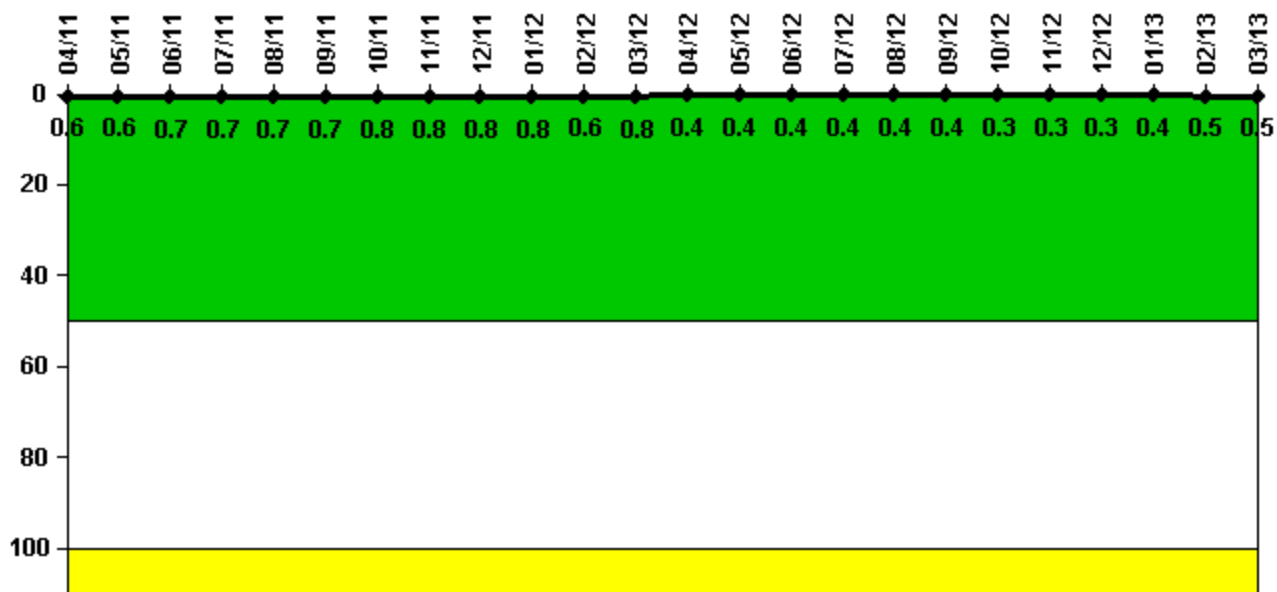
Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (ΔCDF)	8.72E-08	2.98E-07	3.44E-07	2.75E-07	2.97E-07	2.70E-07	3.07E-07	3.03E-07
URI (ΔCDF)	-1.87E-07	-1.42E-07	-1.42E-07	-1.42E-07	-1.42E-07	-1.87E-07	-1.87E-07	-1.87E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.90E-08	1.60E-07	2.00E-07	1.30E-07	1.50E-07	8.40E-08	1.20E-07	1.20E-07

Licensee Comments:

1Q/12: MSPI Basis Document update made to address Frequently Asked Question (FAQ) 482 (11-01) "Cooling Water Boundary".

Reactor Coolant System Activity



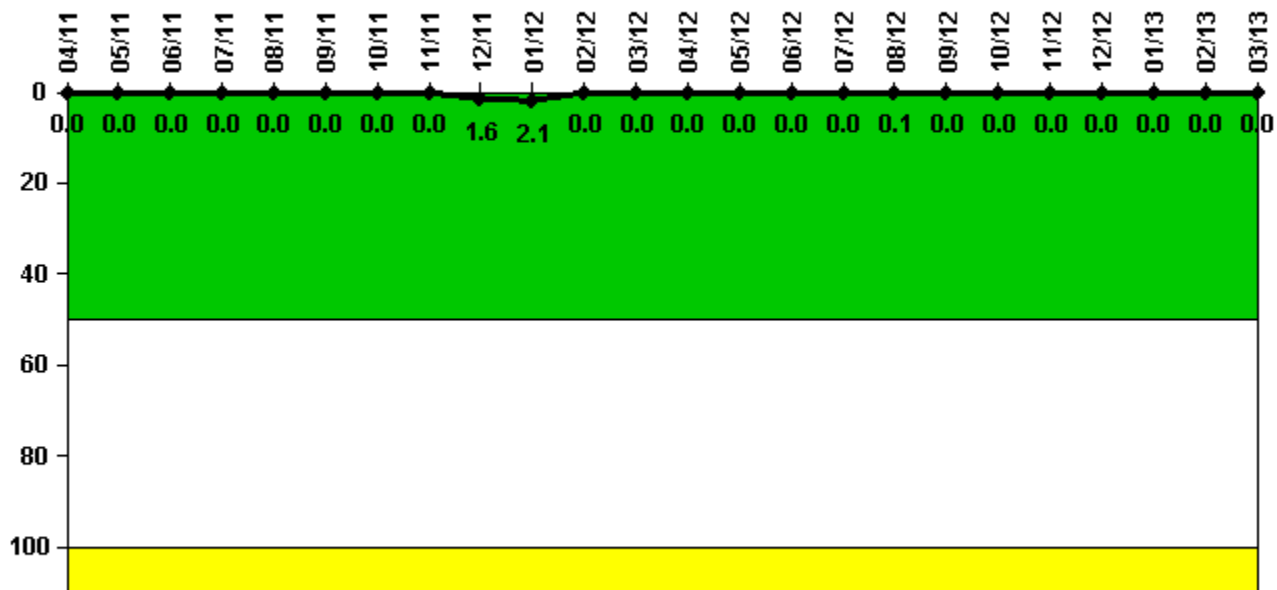
Thresholds: White > 50.0 Yellow > 100.0

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	0.005970	0.006320	0.006520	0.006810	0.007120	0.007170	0.007630	0.007830	0.007790	0.008060	0.006240	0.007910
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.6	0.6	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.6	0.8
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	0.004180	0.003670	0.003660	0.003860	0.003940	0.004060	0.003050	0.003310	0.003360	0.003630	0.004960	0.005250
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5

Licensee Comments: none

Reactor Coolant System Leakage



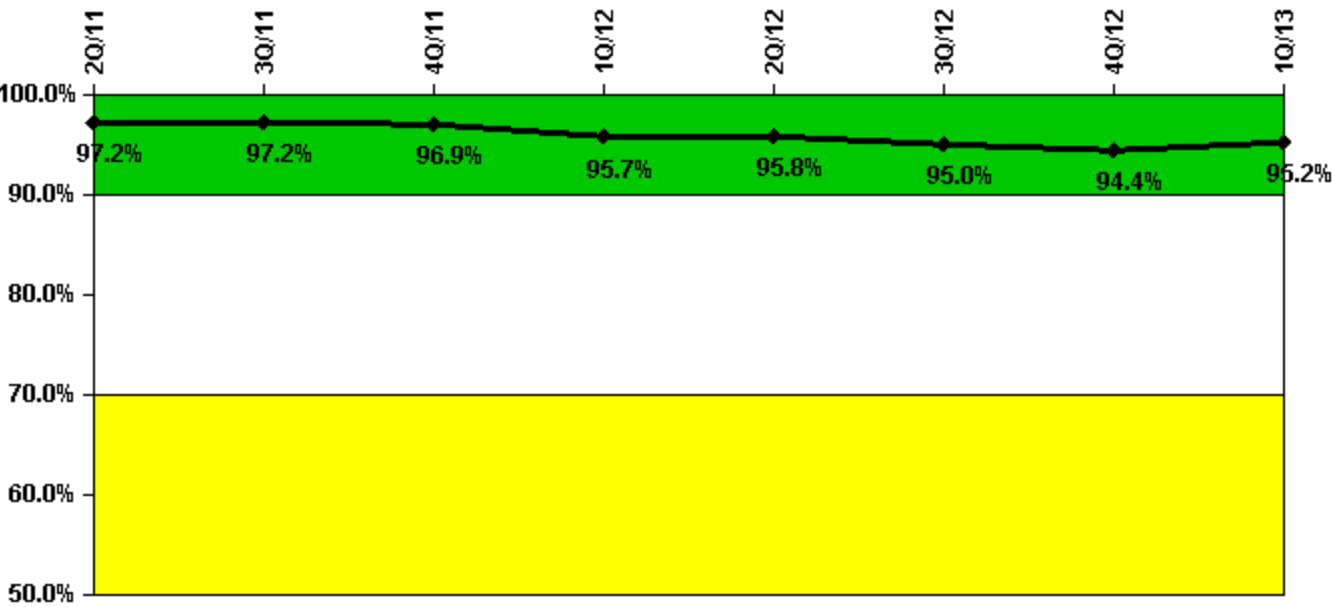
Thresholds: White > 50.0 Yellow > 100.0

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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.159	0.211	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	1.6	2.1	0	0
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	0.001	0.001	0.001	0.001	0.008	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0.1	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



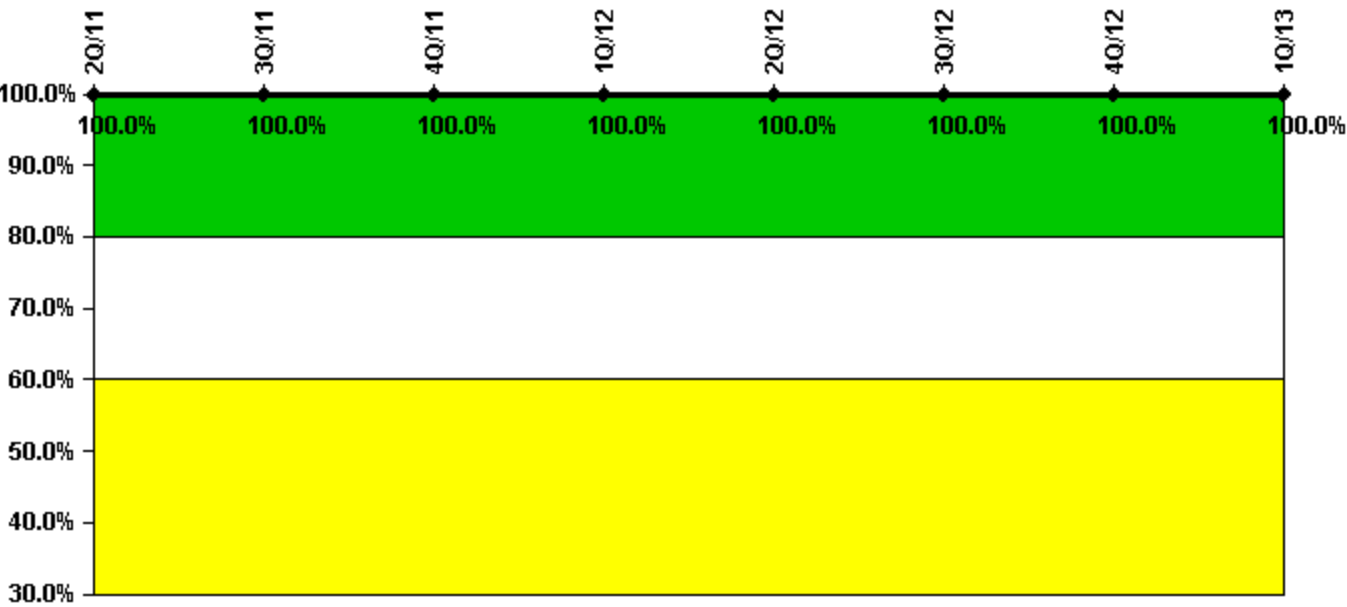
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful opportunities	50.0	24.0	19.0	34.0	16.0	35.0	30.0	68.0
Total opportunities	52.0	25.0	20.0	37.0	17.0	39.0	32.0	68.0
Indicator value	97.2%	97.2%	96.9%	95.7%	95.8%	95.0%	94.4%	95.2%

Licensee Comments: none

ERO Drill Participation



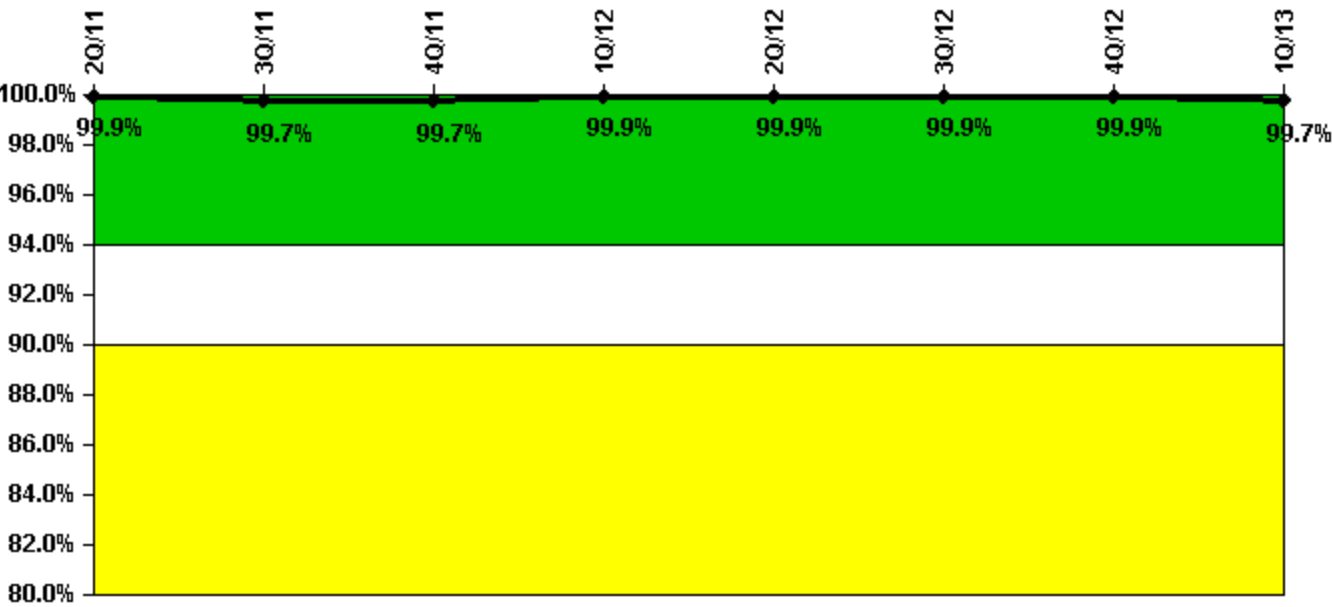
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Participating Key personnel	82.0	85.0	85.0	83.0	84.0	80.0	80.0	80.0
Total Key personnel	82.0	85.0	85.0	83.0	84.0	80.0	80.0	80.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



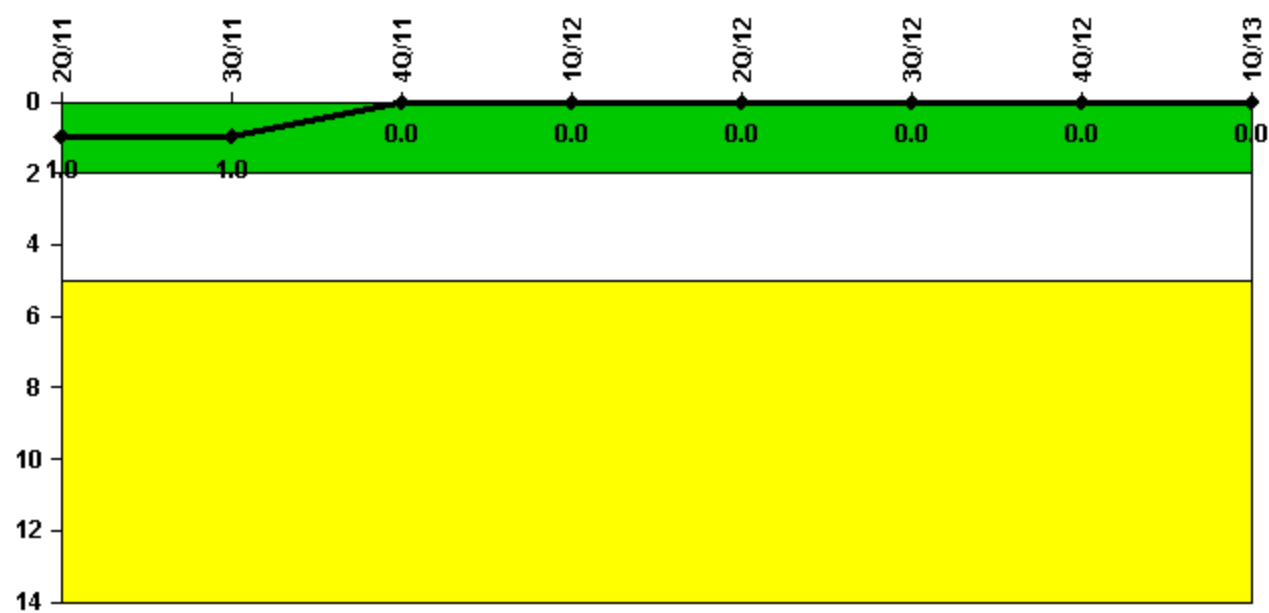
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful siren-tests	183	182	183	183	183	182	183	182
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.9%	99.7%	99.7%	99.9%	99.9%	99.9%	99.9%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



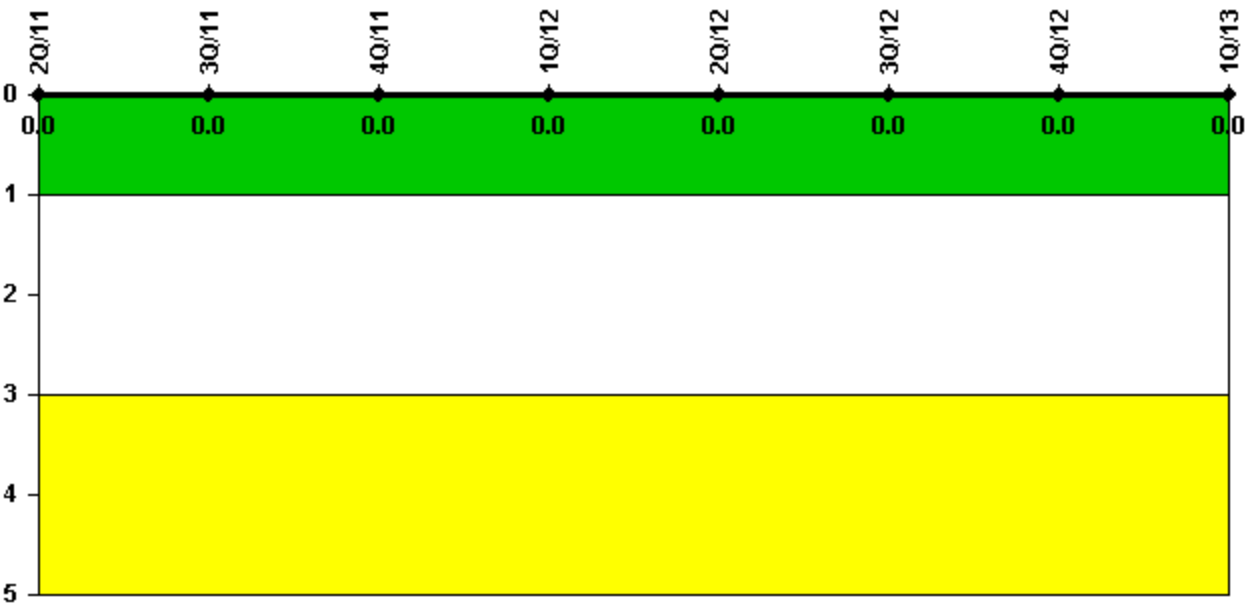
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	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	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

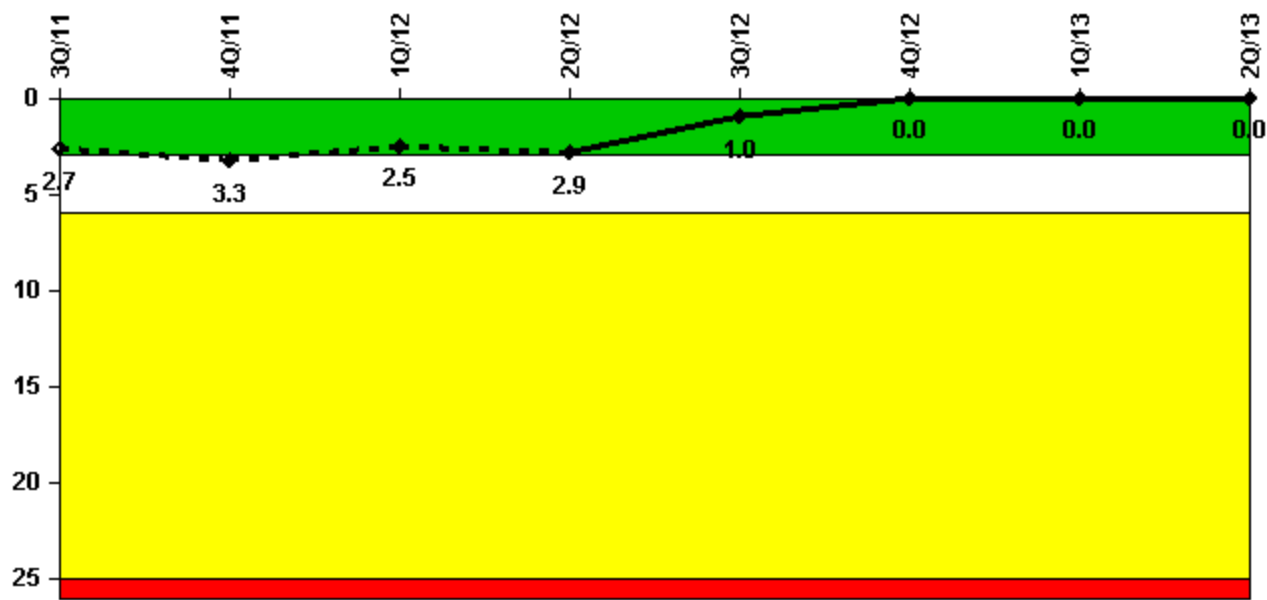
Palisades

2Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



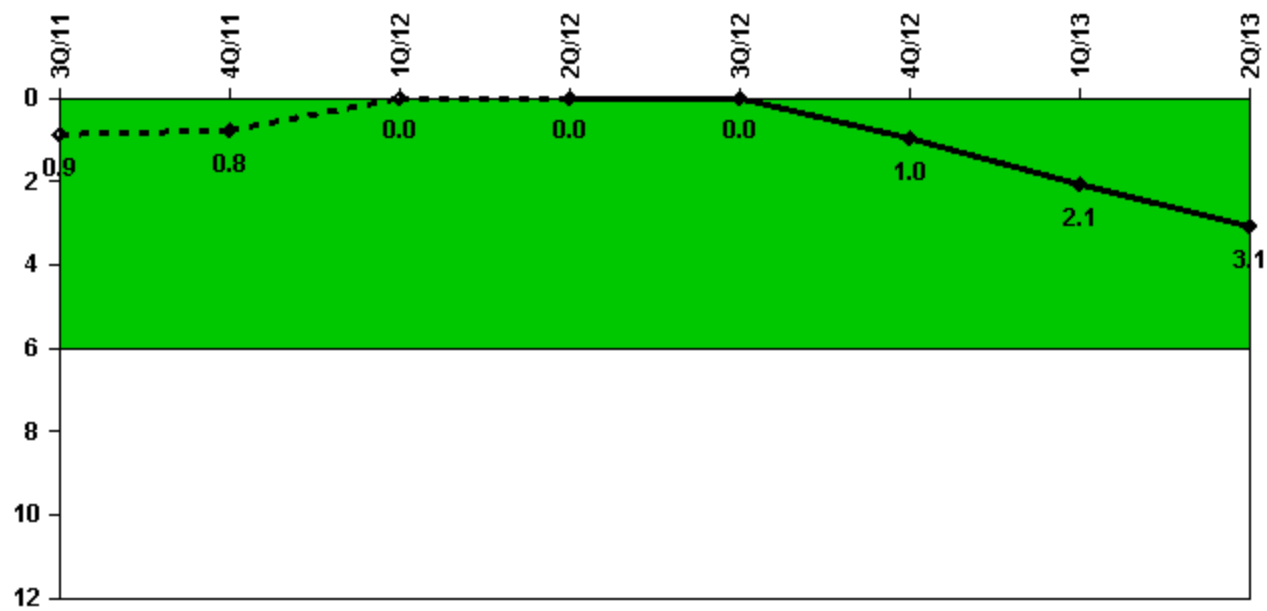
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	2.0	1.0	0	0	0	0	0	0
Critical hours	1998.9	2160.5	2108.4	965.4	1544.8	2151.5	2017.0	1158.4
Indicator value	2.7	3.3	2.5	2.9	1.0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



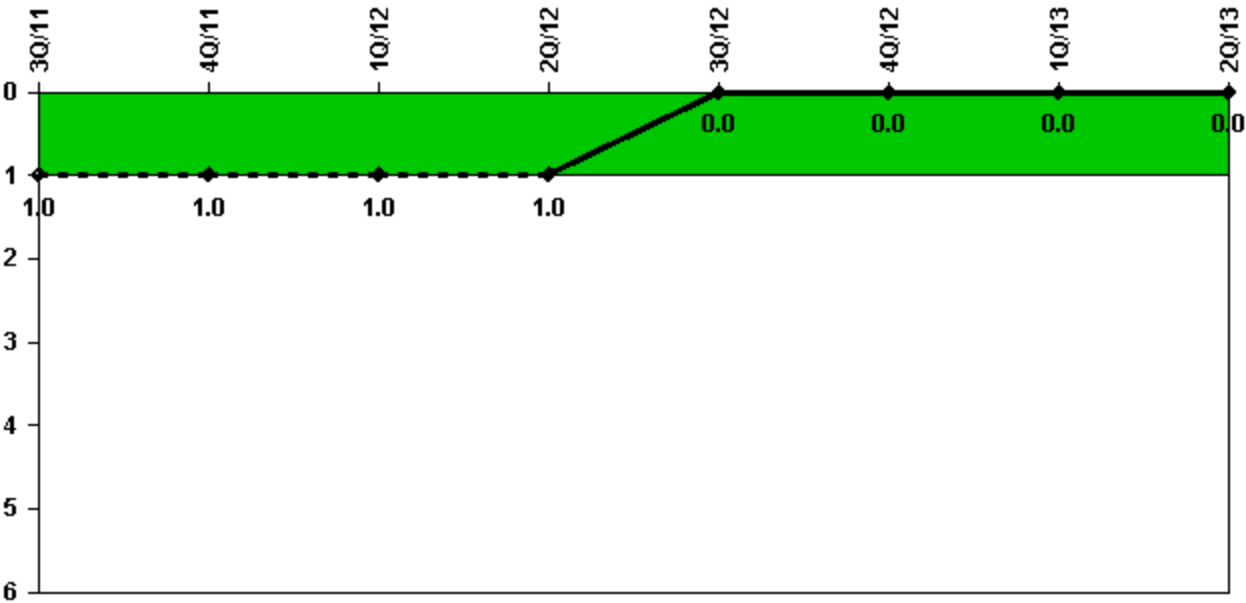
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned power changes	0	0	0	0	0	1.0	1.0	1.0
Critical hours	1998.9	2160.5	2108.4	965.4	1544.8	2151.5	2017.0	1158.4
Indicator value	0.9	0.8	0	0	0	1.0	2.1	3.1

Licensee Comments: none

Unplanned Scrams with Complications



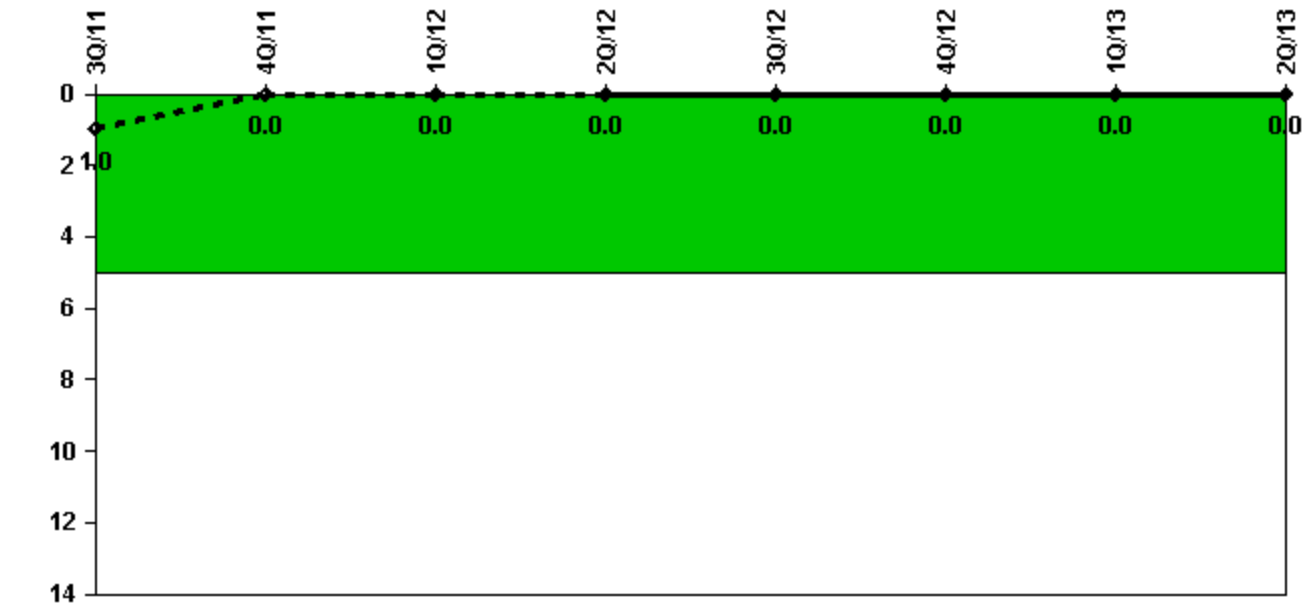
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Scrams with complications	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)



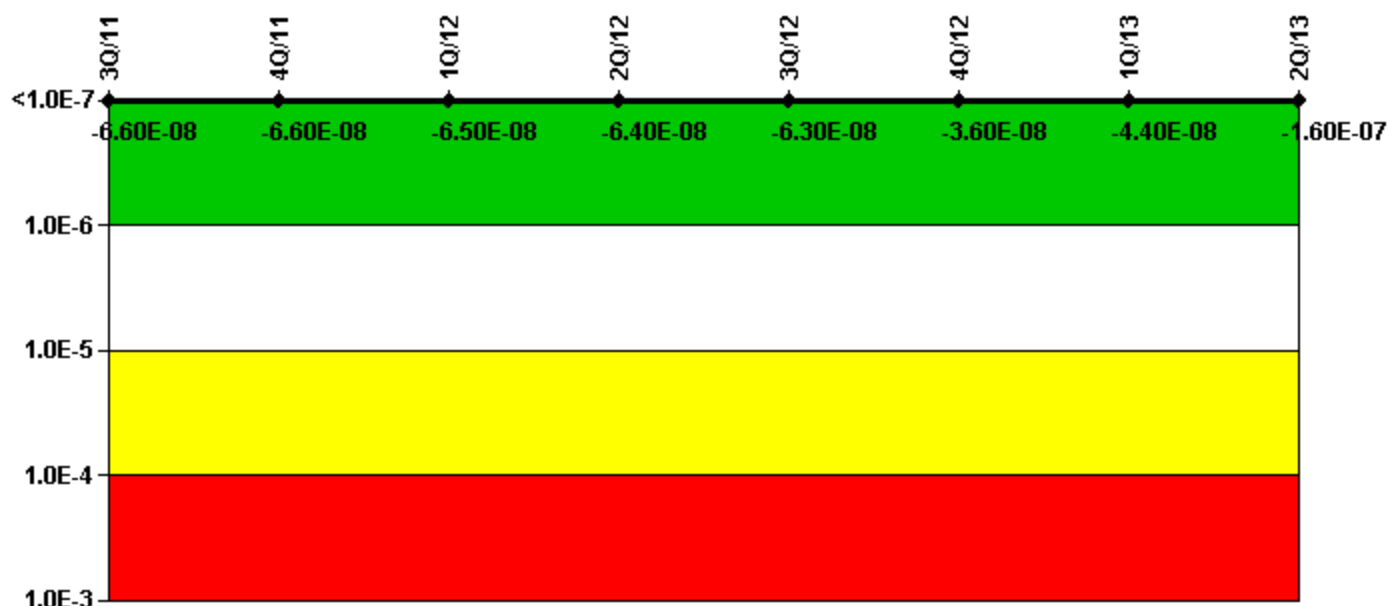
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	1	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	-2.36E-08	-2.36E-08	-2.36E-08	-2.35E-08	-2.34E-08	2.06E-09	-6.50E-09	4.86E-09
URI (Δ CDF)	-4.25E-08	-4.25E-08	-4.15E-08	-4.04E-08	-3.94E-08	-3.83E-08	-3.72E-08	-1.63E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.60E-08	-6.60E-08	-6.50E-08	-6.40E-08	-6.30E-08	-3.60E-08	-4.40E-08	-1.60E-07

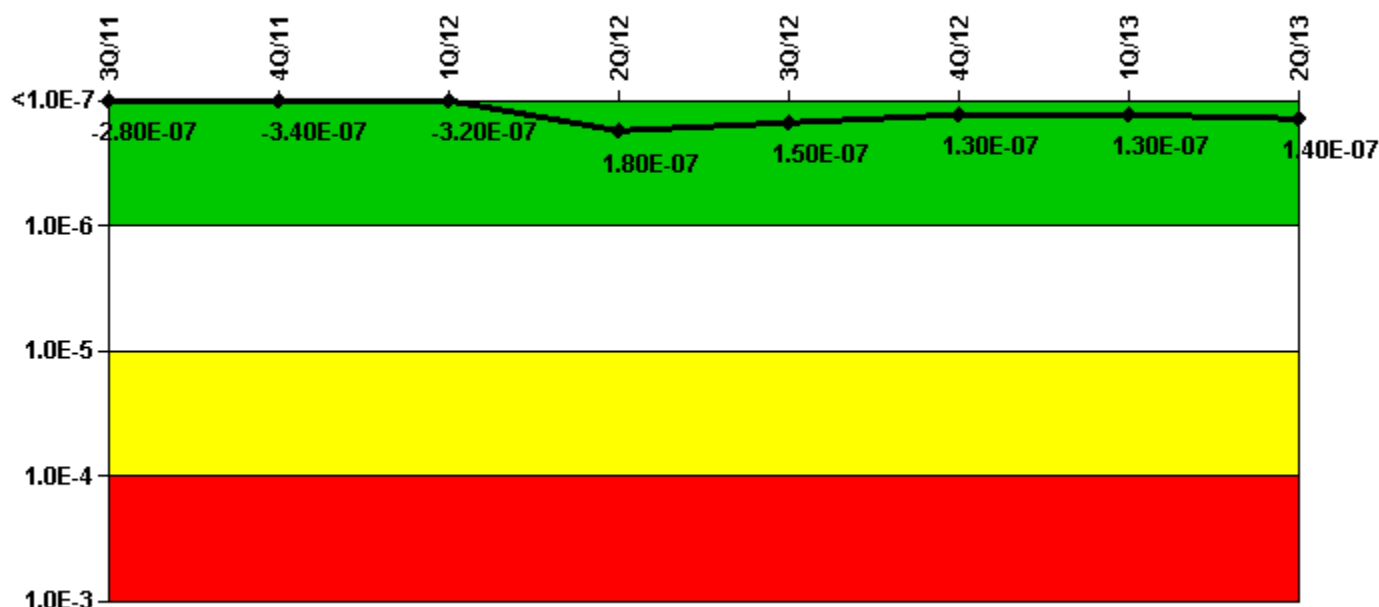
Licensee Comments:

1Q/12: MSPI Basis Document update made to address Frequently Asked Question (FAQ) 484 (11-07) "FOTP Failures" and FAQ 480 (11-06) "EDG Run Hour Reporting". Revised Emergency Diesel Generator load demand and run-time estimates due to FAQ 480.

4Q/11: Evaluation of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage from April 2011 concluded No MSPI Failure occurred. (Reference CR-PLP-2011-01933)

3Q/11: Evaluation is pending of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage identified in April 2011. (Reference CR-PLP-2011-01933)

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)	-1.30E-08	-7.45E-08	-5.41E-08	-5.12E-08	-8.27E-08	-1.03E-07	-1.03E-07	-9.51E-08
URI (Δ CDF)	-2.65E-07	-2.65E-07	-2.65E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.80E-07	-3.40E-07	-3.20E-07	1.80E-07	1.50E-07	1.30E-07	1.30E-07	1.40E-07

Licensee Comments:

2Q/13: Risk Cap Invoked.

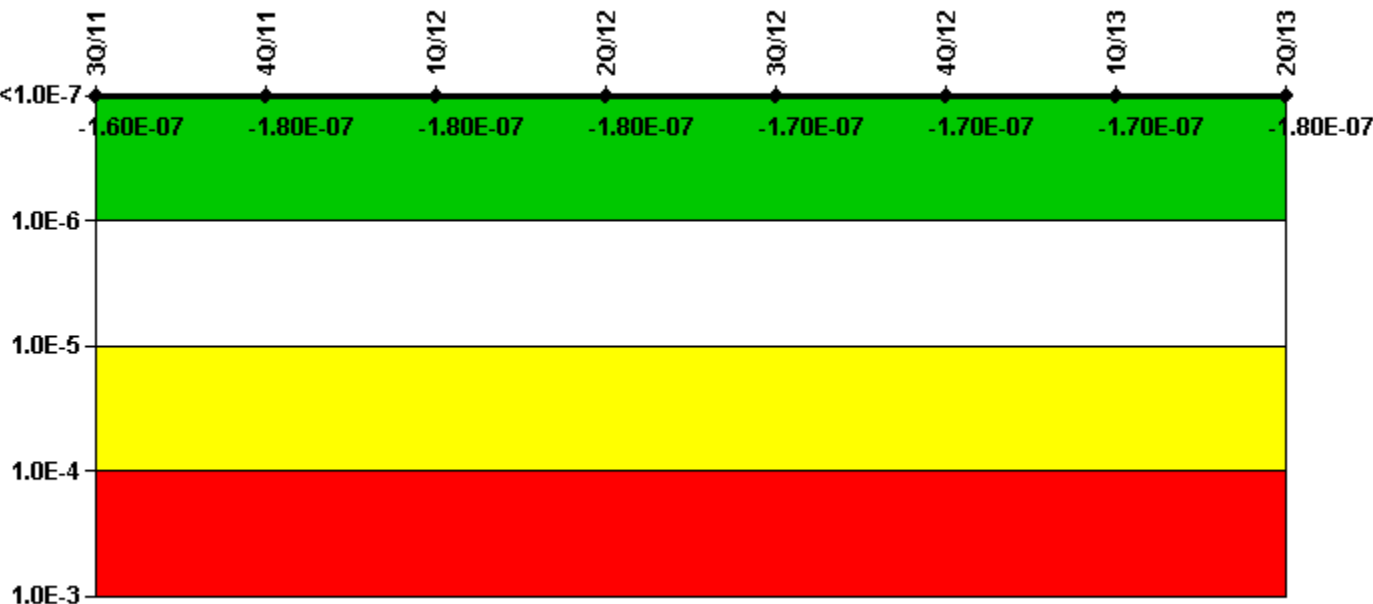
1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked.

3Q/12: Risk Cap Invoked.

2Q/12: Risk Cap Invoked.

Mitigating Systems Performance Index, Heat Removal System



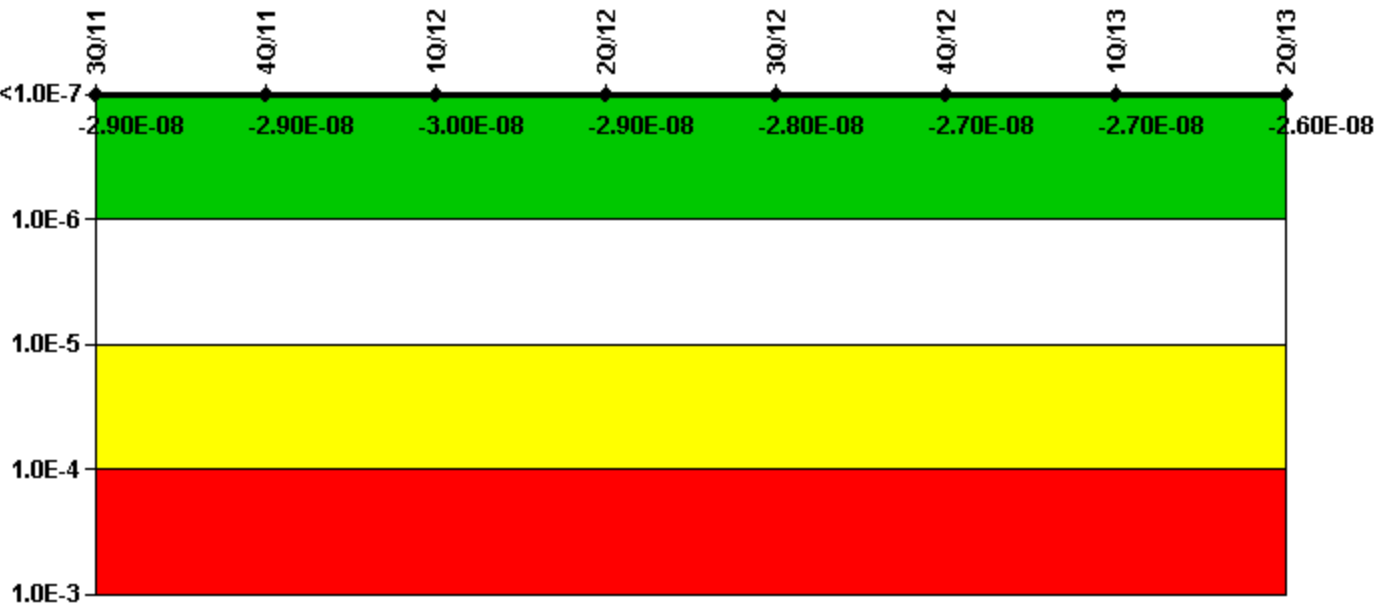
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (ΔCDF)	3.73E-08	1.92E-08	1.82E-08	1.87E-08	3.35E-08	3.15E-08	3.26E-08	2.13E-08
URI (ΔCDF)	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.70E-07	-1.70E-07	-1.70E-07	-1.80E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



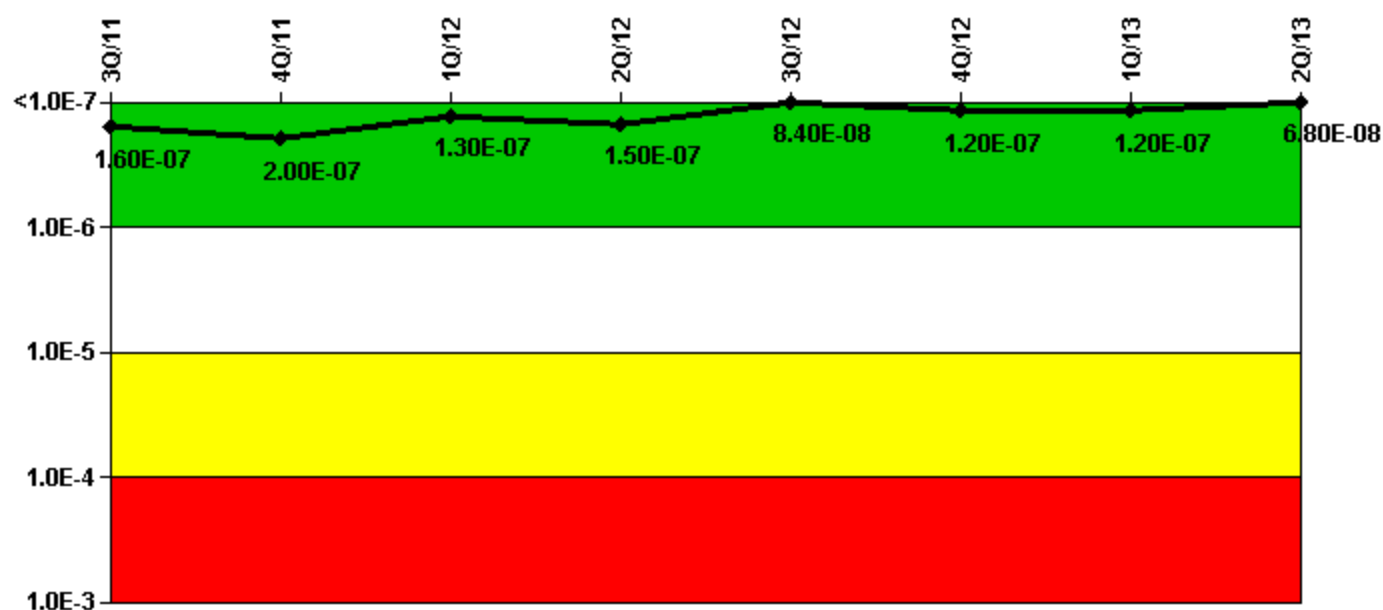
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (ΔCDF)	1.17E-08	1.11E-08	1.07E-08	1.16E-08	1.28E-08	1.29E-08	1.32E-08	1.49E-08
URI (ΔCDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-08	-2.90E-08	-3.00E-08	-2.90E-08	-2.80E-08	-2.70E-08	-2.70E-08	-2.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

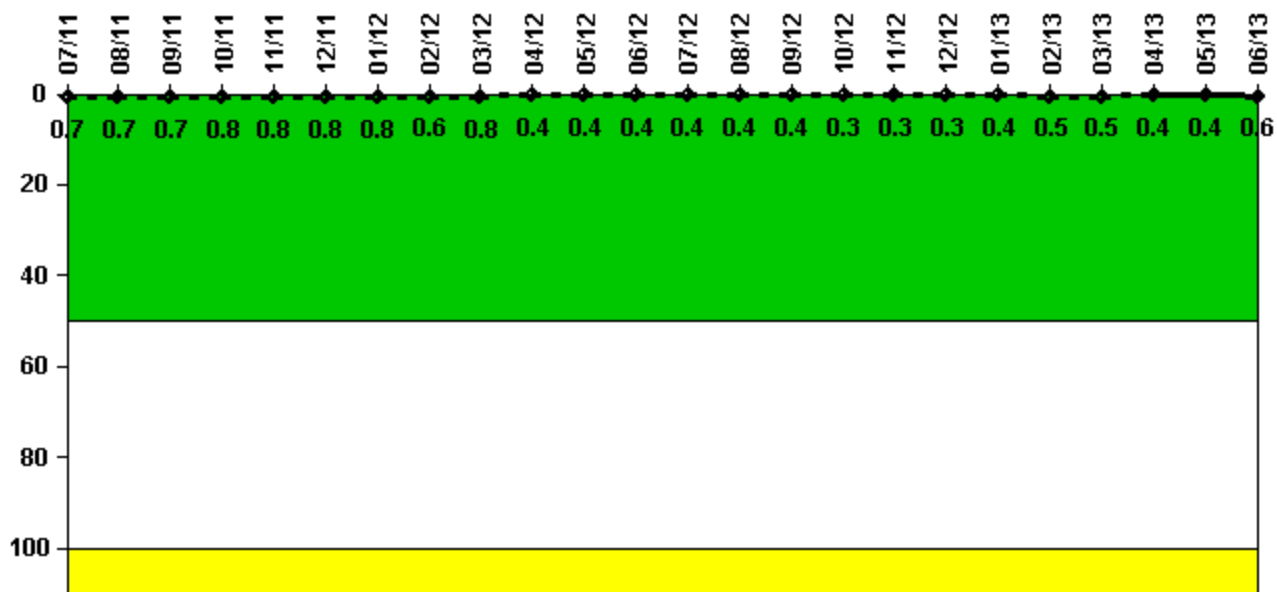
Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (ΔCDF)	2.98E-07	3.44E-07	2.75E-07	2.97E-07	2.70E-07	3.07E-07	3.03E-07	2.55E-07
URI (ΔCDF)	-1.42E-07	-1.42E-07	-1.42E-07	-1.42E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.60E-07	2.00E-07	1.30E-07	1.50E-07	8.40E-08	1.20E-07	1.20E-07	6.80E-08

Licensee Comments:

1Q/12: MSPI Basis Document update made to address Frequently Asked Question (FAQ) 482 (11-01) "Cooling Water Boundary".

Reactor Coolant System Activity



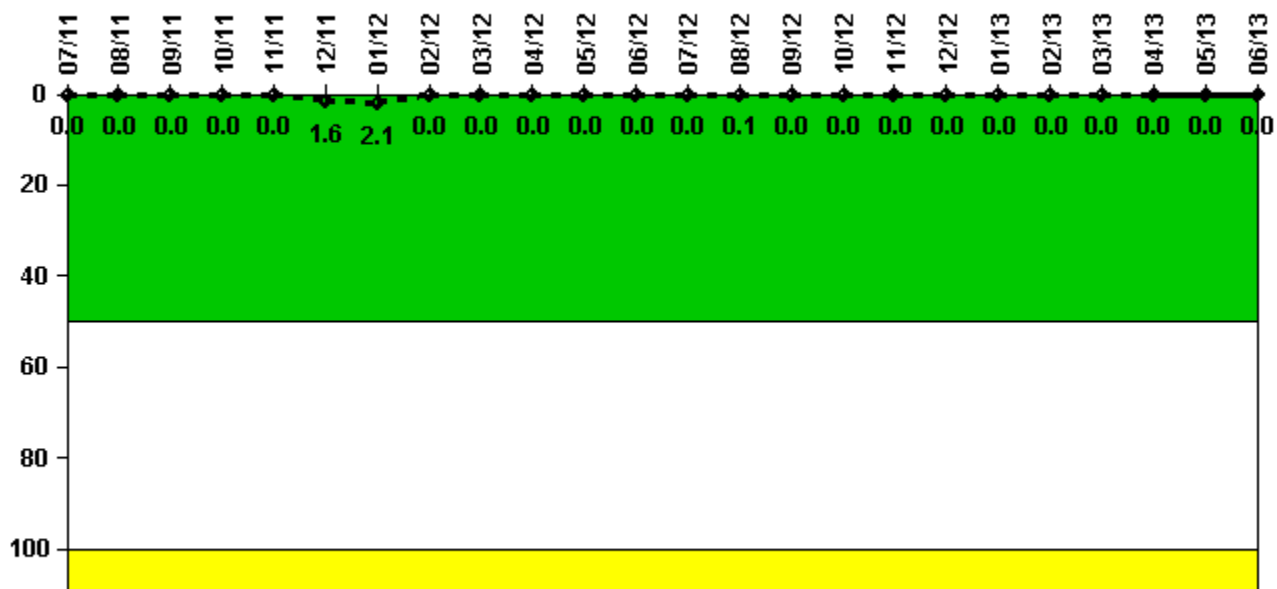
Thresholds: White > 50.0 Yellow > 100.0

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	0.006810	0.007120	0.007170	0.007630	0.007830	0.007790	0.008060	0.006240	0.007910	0.004180	0.003670	0.003660
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.6	0.8	0.4	0.4	0.4
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	0.003860	0.003940	0.004060	0.003050	0.003310	0.003360	0.003630	0.004960	0.005250	0.003880	0.003880	0.005740
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.4	0.6

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

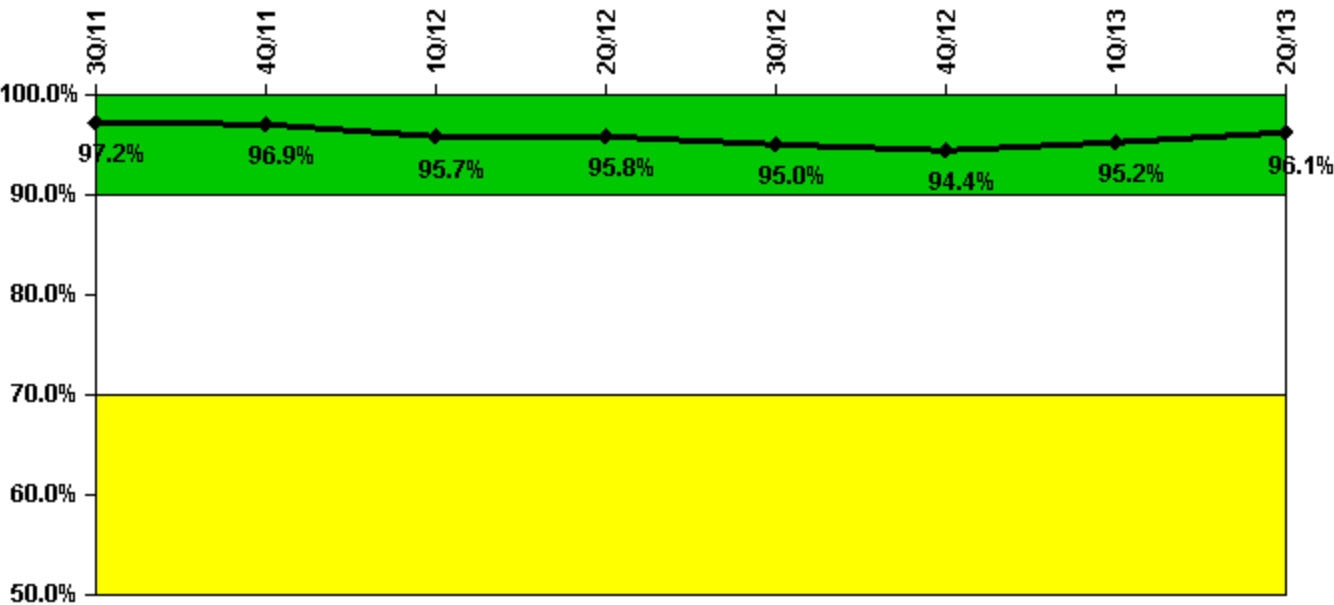
Notes

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	0.001	0.001	0.001	0.001	0.001	0.159	0.211	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	1.6	2.1	0	0	0	0	0

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	0.001	0.008	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0.1	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



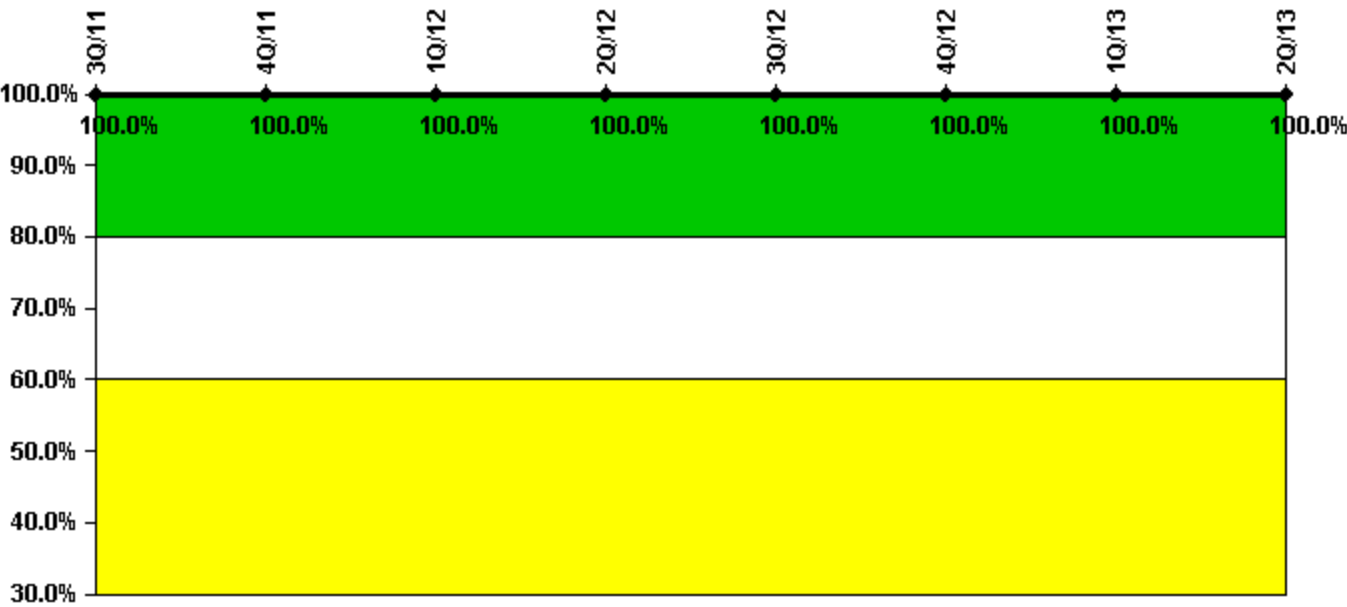
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful opportunities	24.0	19.0	34.0	16.0	35.0	30.0	68.0	95.0
Total opportunities	25.0	20.0	37.0	17.0	39.0	32.0	68.0	96.0
Indicator value	97.2%	96.9%	95.7%	95.8%	95.0%	94.4%	95.2%	96.1%

Licensee Comments: none

ERO Drill Participation



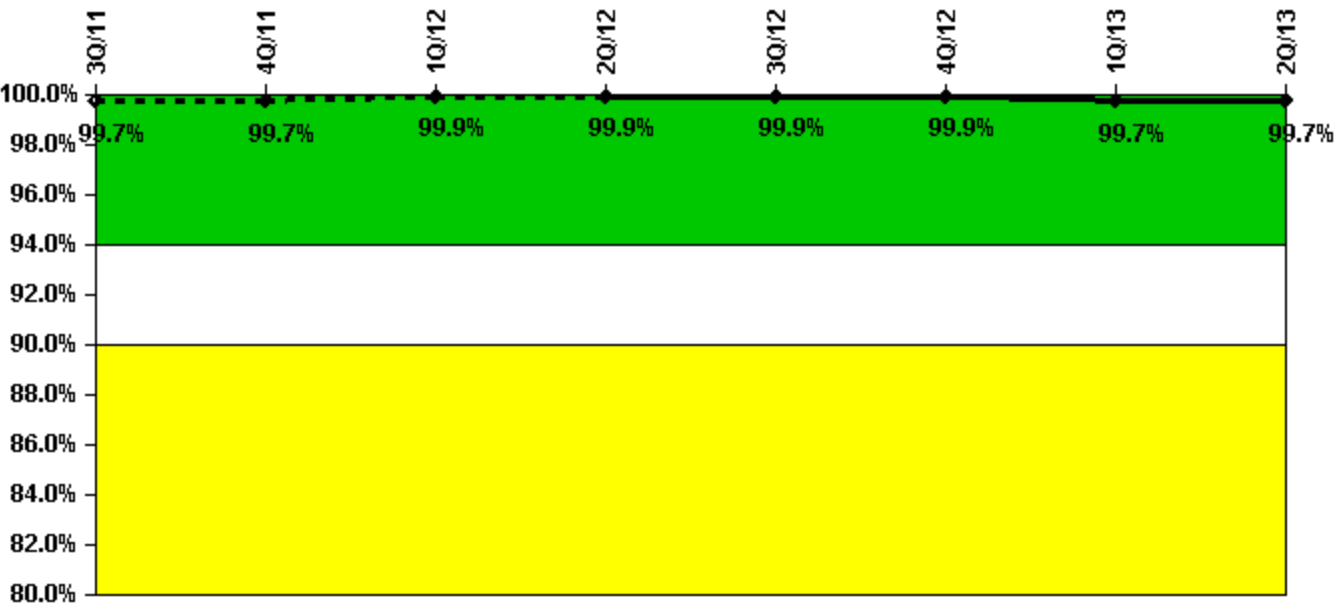
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Participating Key personnel	85.0	85.0	83.0	84.0	80.0	80.0	80.0	75.0
Total Key personnel	85.0	85.0	83.0	84.0	80.0	80.0	80.0	75.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



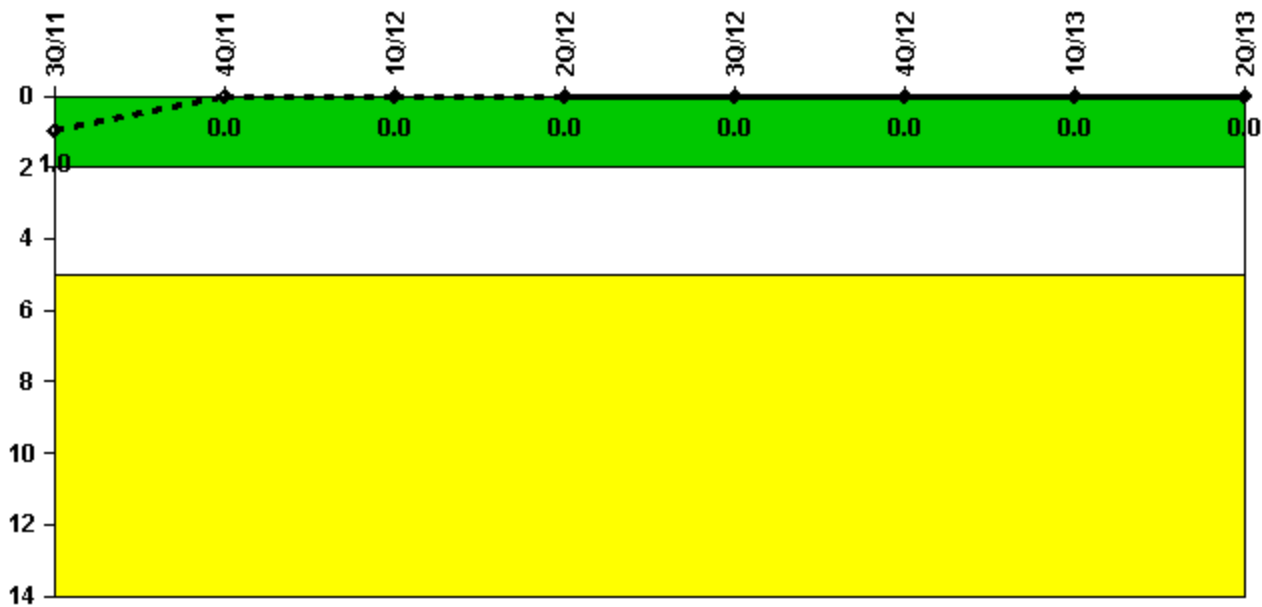
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful siren-tests	182	183	183	183	182	183	182	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.7%	99.7%	99.9%	99.9%	99.9%	99.9%	99.7%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



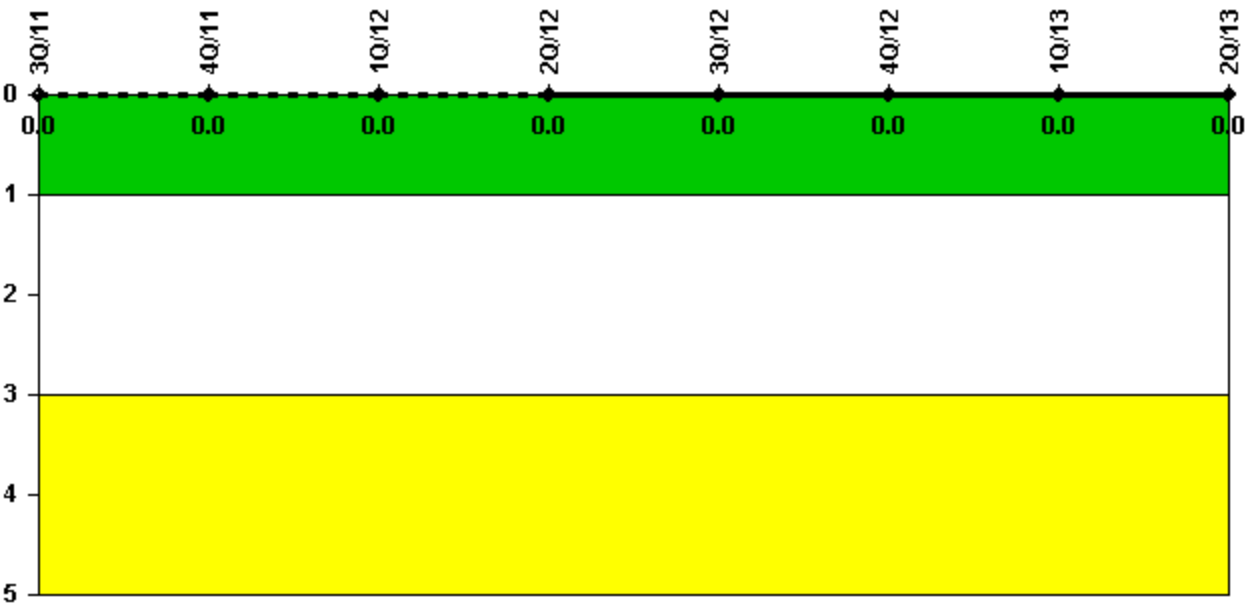
Thresholds: White > 2.0 Yellow > 5.0

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	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	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

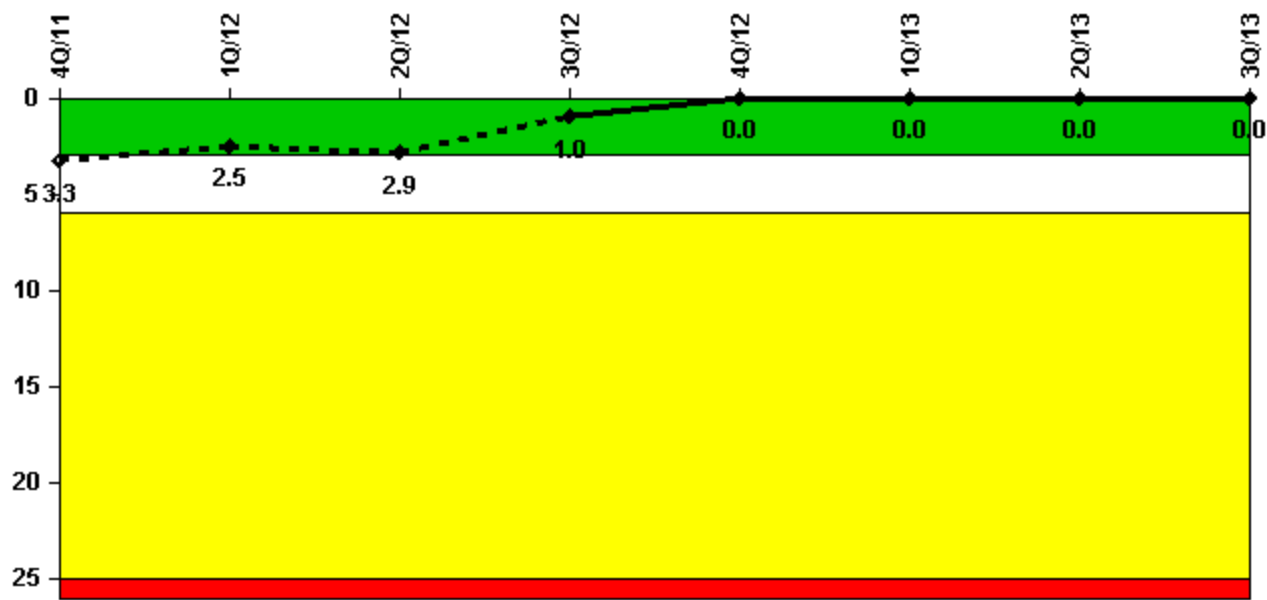
Palisades

3Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



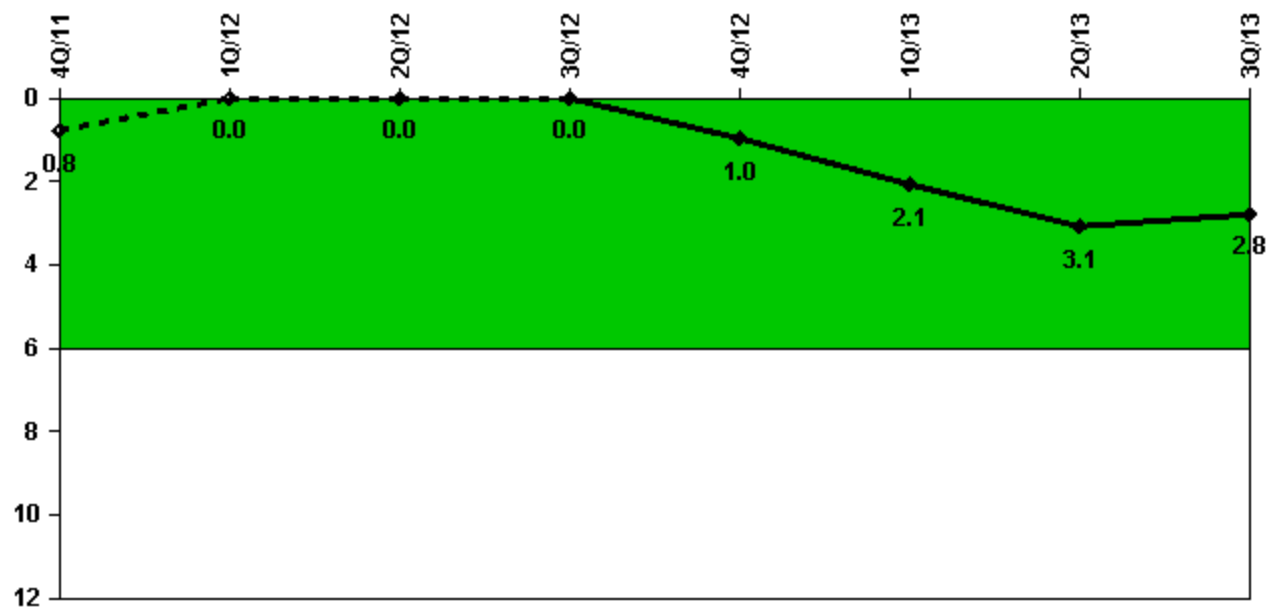
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	0	0	0	0
Critical hours	2160.5	2108.4	965.4	1544.8	2151.5	2017.0	1158.4	2208.0
Indicator value	3.3	2.5	2.9	1.0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



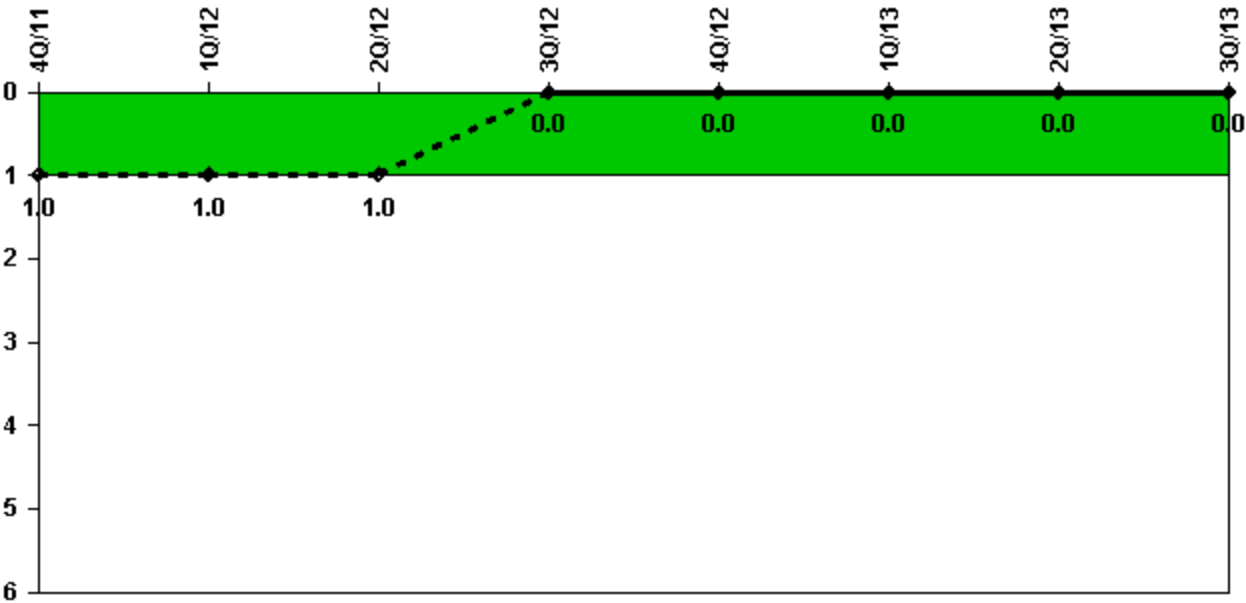
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned power changes	0	0	0	0	1.0	1.0	1.0	0
Critical hours	2160.5	2108.4	965.4	1544.8	2151.5	2017.0	1158.4	2208.0
Indicator value	0.8	0	0	0	1.0	2.1	3.1	2.8

Licensee Comments: none

Unplanned Scrams with Complications



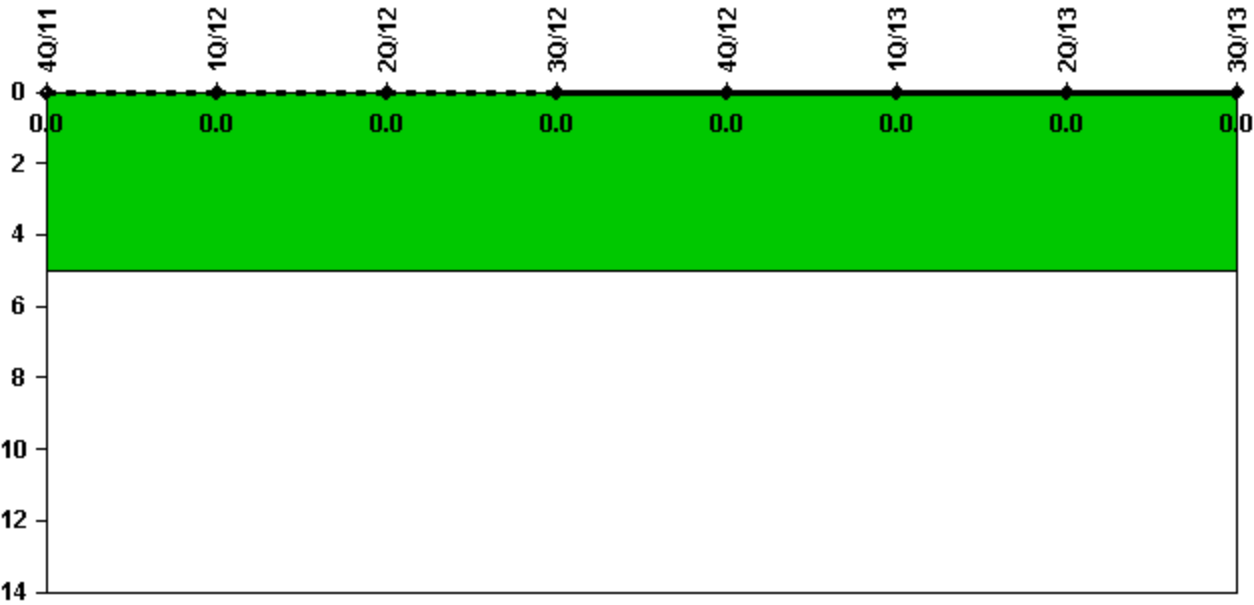
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



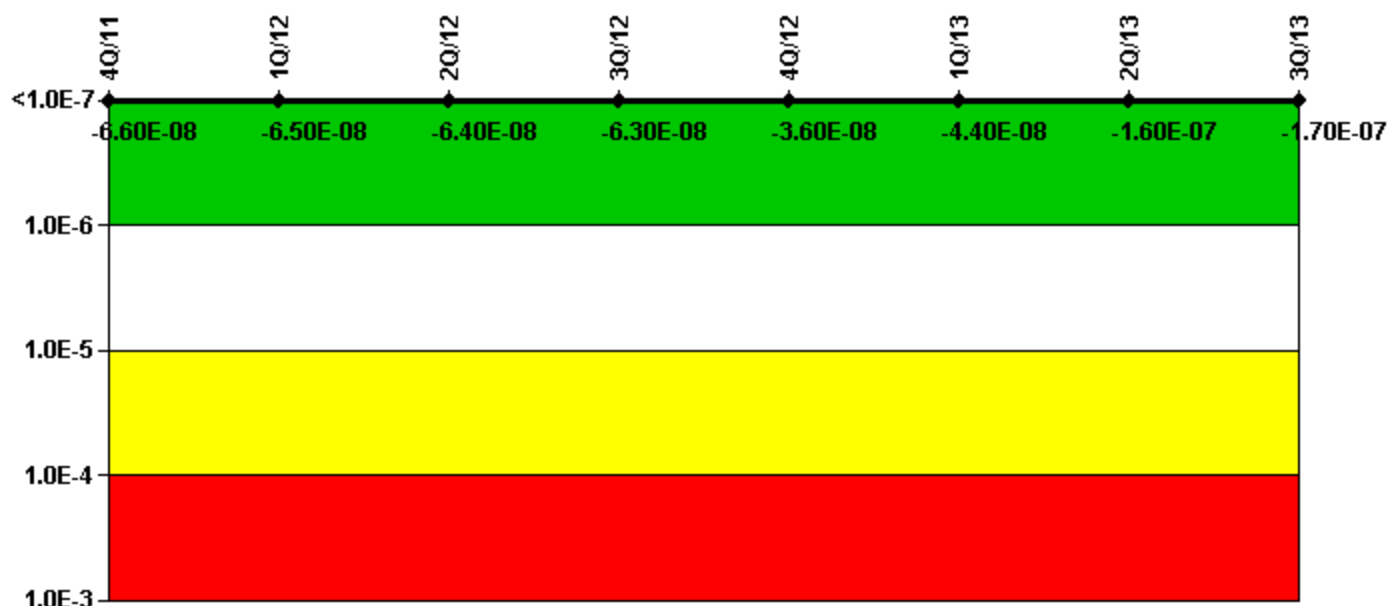
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	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

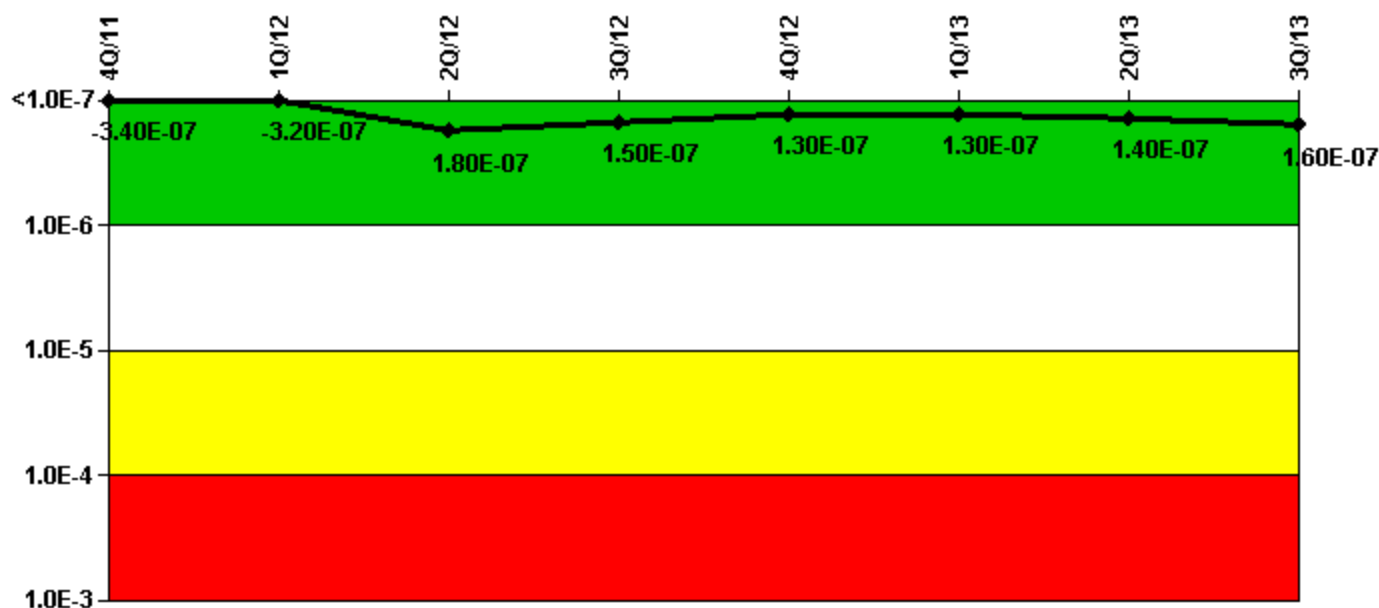
Mitigating Systems Performance Index, Emergency AC Power System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	-2.36E-08	-2.36E-08	-2.35E-08	-2.34E-08	2.06E-09	-6.50E-09	4.86E-09	-6.13E-09
URI (Δ CDF)	-4.25E-08	-4.15E-08	-4.04E-08	-3.94E-08	-3.83E-08	-3.72E-08	-1.63E-07	-1.62E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.60E-08	-6.50E-08	-6.40E-08	-6.30E-08	-3.60E-08	-4.40E-08	-1.60E-07	-1.70E-07

Licensee Comments:

1Q/12: MSPI Basis Document update made to address Frequently Asked Question (FAQ) 484 (11-07) "FOTP Failures" and FAQ 480 (11-06) "EDG Run Hour Reporting". Revised Emergency Diesel Generator load demand and run-time estimates due to FAQ 480.

4Q/11: Evaluation of Emergency Diesel Generator K-6BG Jacket Water Pump P-211B Mechanical Seal Leakage from April 2011 concluded No MSPI Failure occurred. (Reference CR-PLP-2011-01933)

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)	-7.45E-08	-5.41E-08	-5.12E-08	-8.27E-08	-1.03E-07	-1.03E-07	-9.51E-08	-7.30E-08
URI (Δ CDF)	-2.65E-07	-2.65E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.40E-07	-3.20E-07	1.80E-07	1.50E-07	1.30E-07	1.30E-07	1.40E-07	1.60E-07

Licensee Comments:

3Q/13: Risk Cap Invoked.

2Q/13: Risk Cap Invoked.

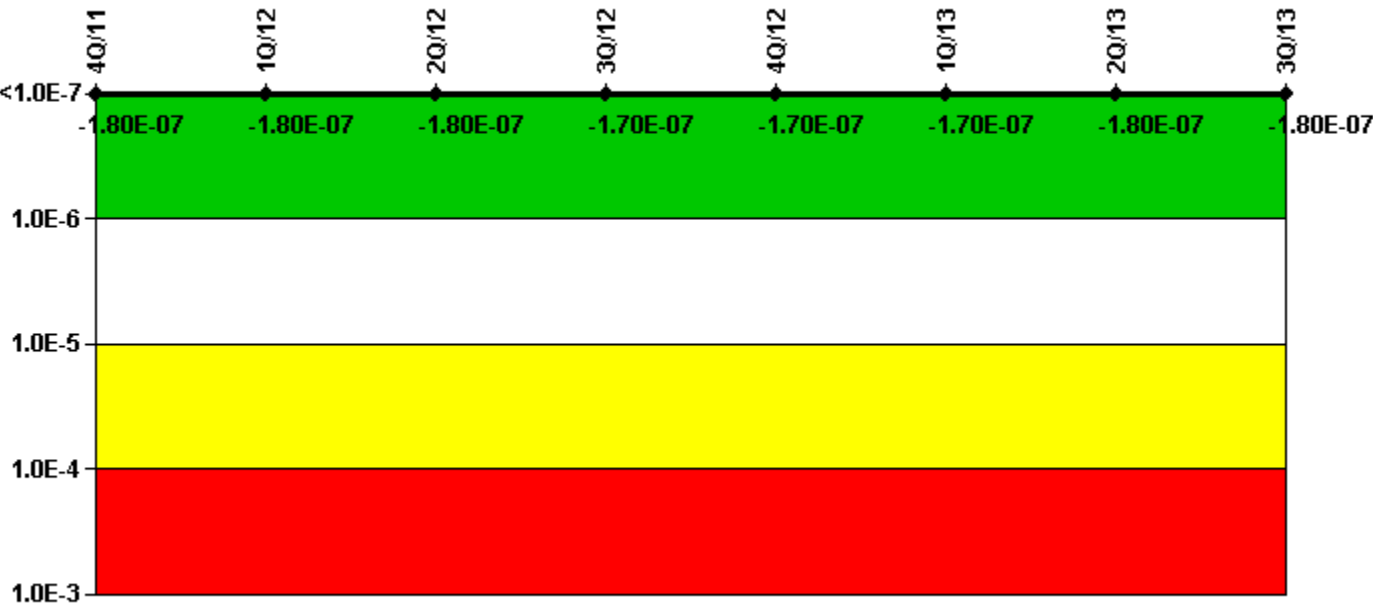
1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked.

3Q/12: Risk Cap Invoked.

2Q/12: Risk Cap Invoked.

Mitigating Systems Performance Index, Heat Removal System



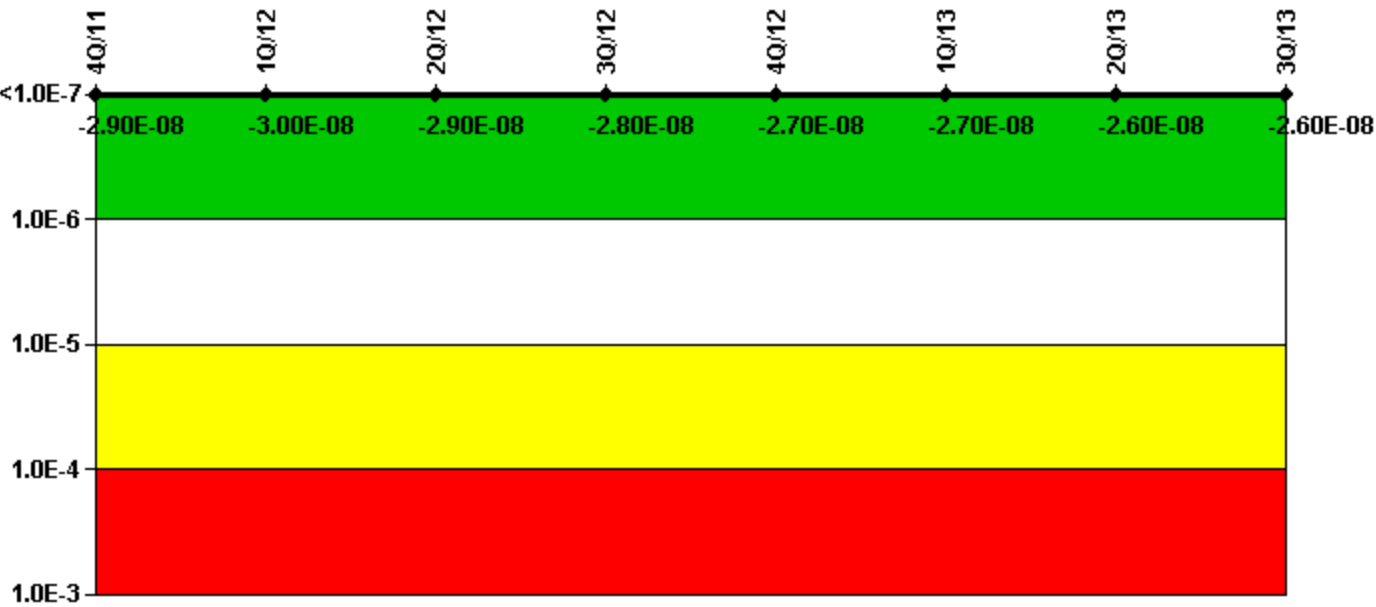
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (ΔCDF)	1.92E-08	1.82E-08	1.87E-08	3.35E-08	3.15E-08	3.26E-08	2.13E-08	2.16E-08
URI (ΔCDF)	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.80E-07	-1.80E-07	-1.70E-07	-1.70E-07	-1.70E-07	-1.80E-07	-1.80E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



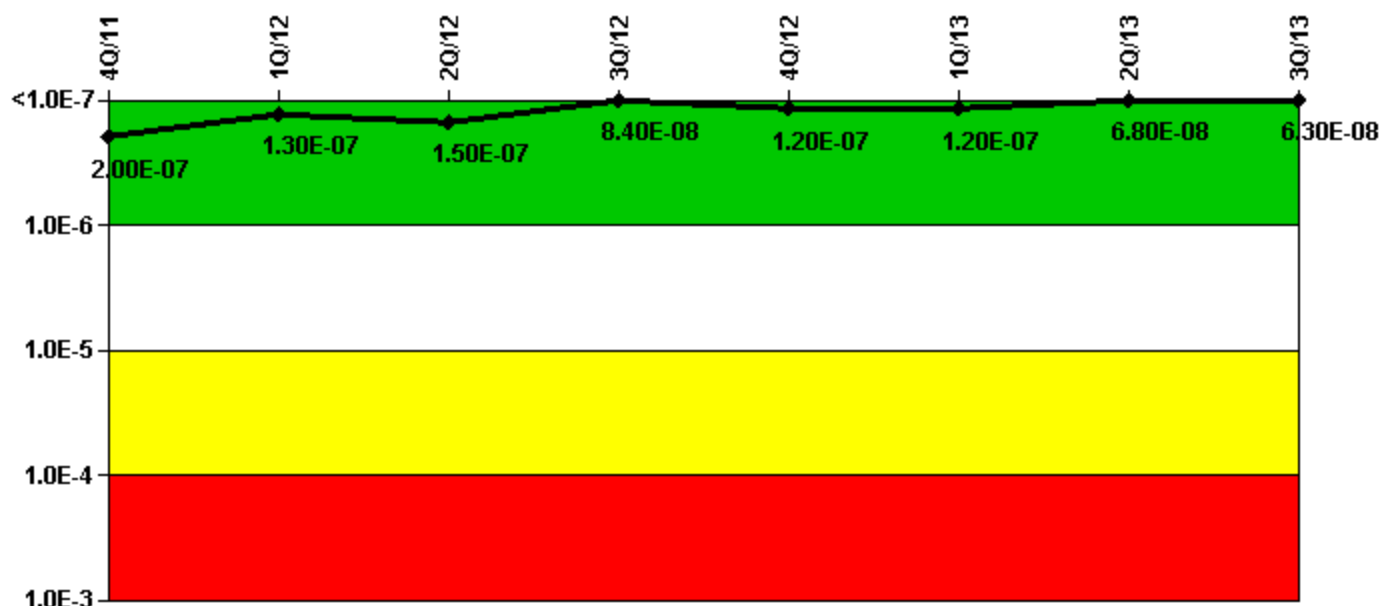
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (ΔCDF)	1.11E-08	1.07E-08	1.16E-08	1.28E-08	1.29E-08	1.32E-08	1.49E-08	1.48E-08
URI (ΔCDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-08	-3.00E-08	-2.90E-08	-2.80E-08	-2.70E-08	-2.70E-08	-2.60E-08	-2.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

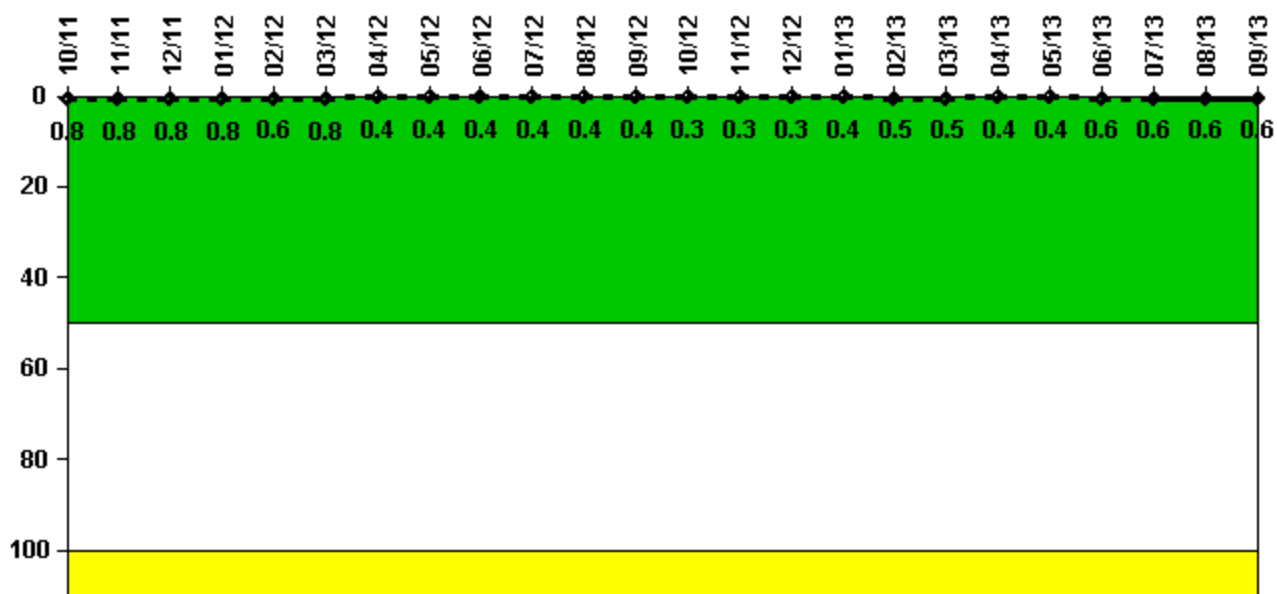
Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	3.44E-07	2.75E-07	2.97E-07	2.70E-07	3.07E-07	3.03E-07	2.55E-07	2.49E-07
URI (Δ CDF)	-1.42E-07	-1.42E-07	-1.42E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.00E-07	1.30E-07	1.50E-07	8.40E-08	1.20E-07	1.20E-07	6.80E-08	6.30E-08

Licensee Comments:

1Q/12: MSPI Basis Document update made to address Frequently Asked Question (FAQ) 482 (11-01) "Cooling Water Boundary".

Reactor Coolant System Activity



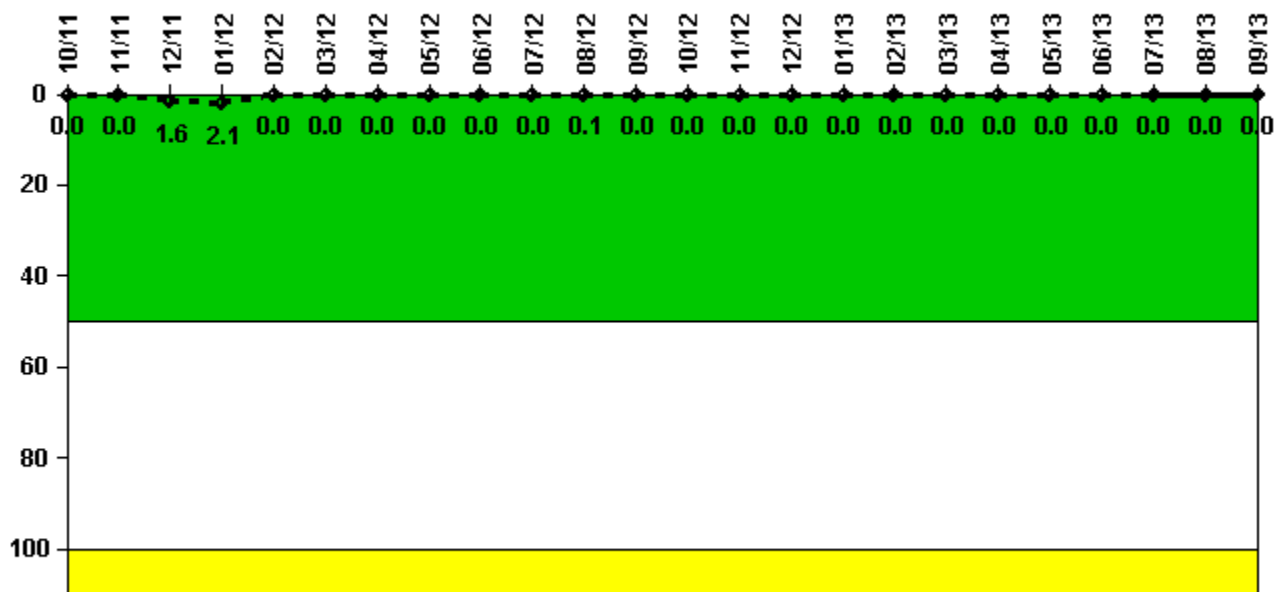
Thresholds: White > 50.0 Yellow > 100.0

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	0.007630	0.007830	0.007790	0.008060	0.006240	0.007910	0.004180	0.003670	0.003660	0.003860	0.003940	0.004060
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.8	0.8	0.8	0.8	0.6	0.8	0.4	0.4	0.4	0.4	0.4	0.4
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	0.003050	0.003310	0.003360	0.003630	0.004960	0.005250	0.003880	0.003880	0.005740	0.005850	0.006060	0.006420
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.4	0.6	0.6	0.6	0.6

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

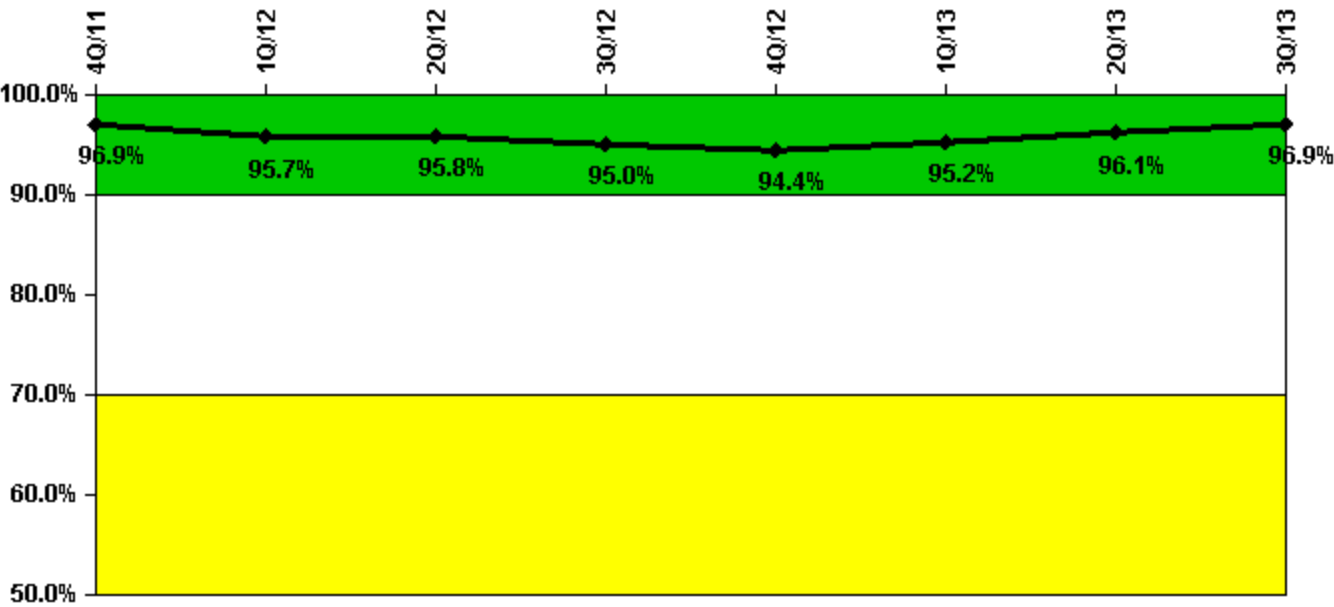
Notes

Reactor Coolant System Leakage	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	0.001	0.001	0.159	0.211	0.001	0.001	0.001	0.001	0.001	0.001	0.008	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	1.6	2.1	0	0	0	0	0	0	0.1	0

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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



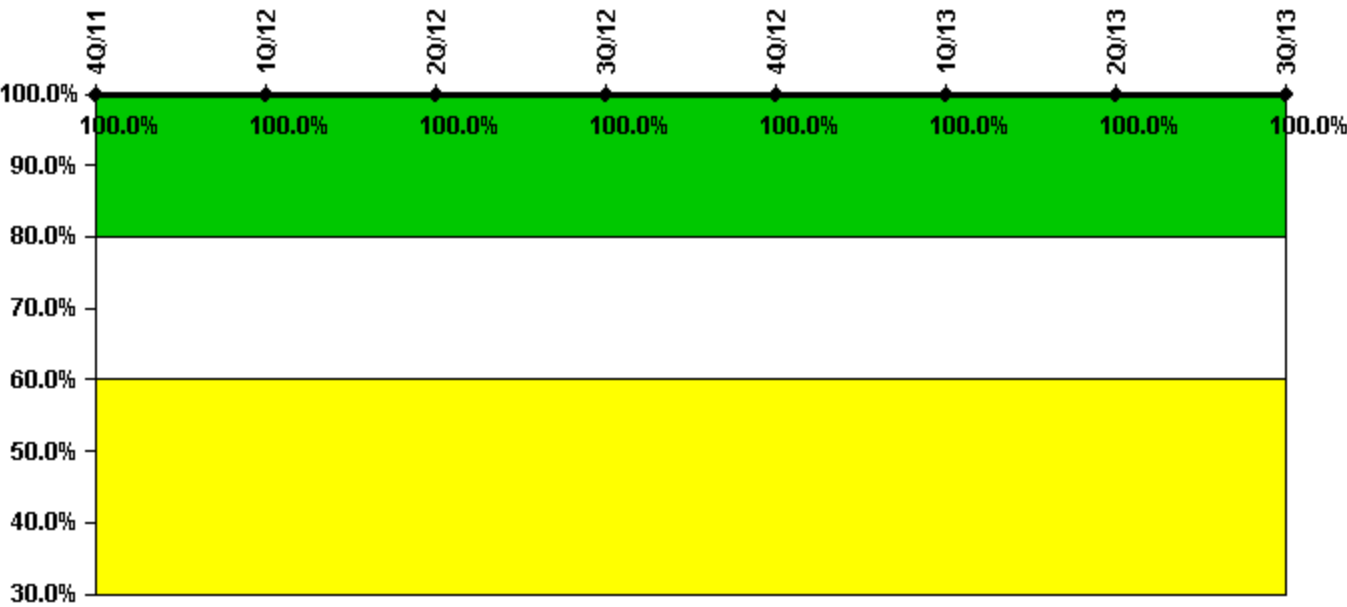
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful opportunities	19.0	34.0	16.0	35.0	30.0	68.0	95.0	82.0
Total opportunities	20.0	37.0	17.0	39.0	32.0	68.0	96.0	82.0
Indicator value	96.9%	95.7%	95.8%	95.0%	94.4%	95.2%	96.1%	96.9%

Licensee Comments: none

ERO Drill Participation



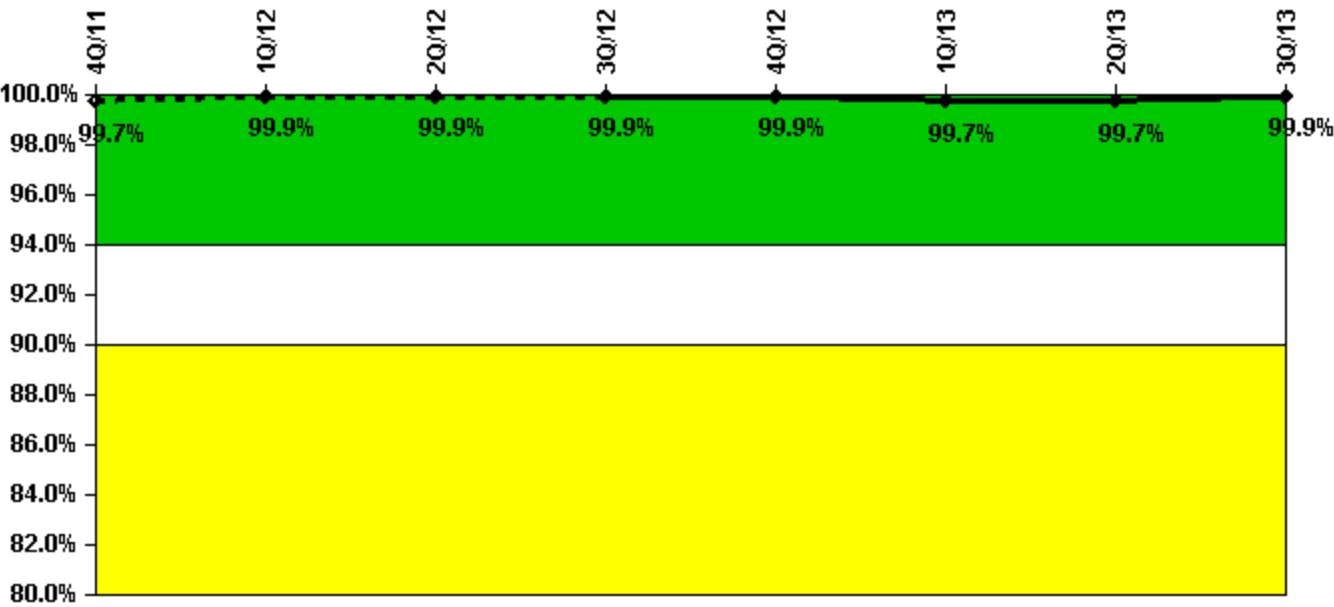
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Participating Key personnel	85.0	83.0	84.0	80.0	80.0	80.0	75.0	76.0
Total Key personnel	85.0	83.0	84.0	80.0	80.0	80.0	75.0	76.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



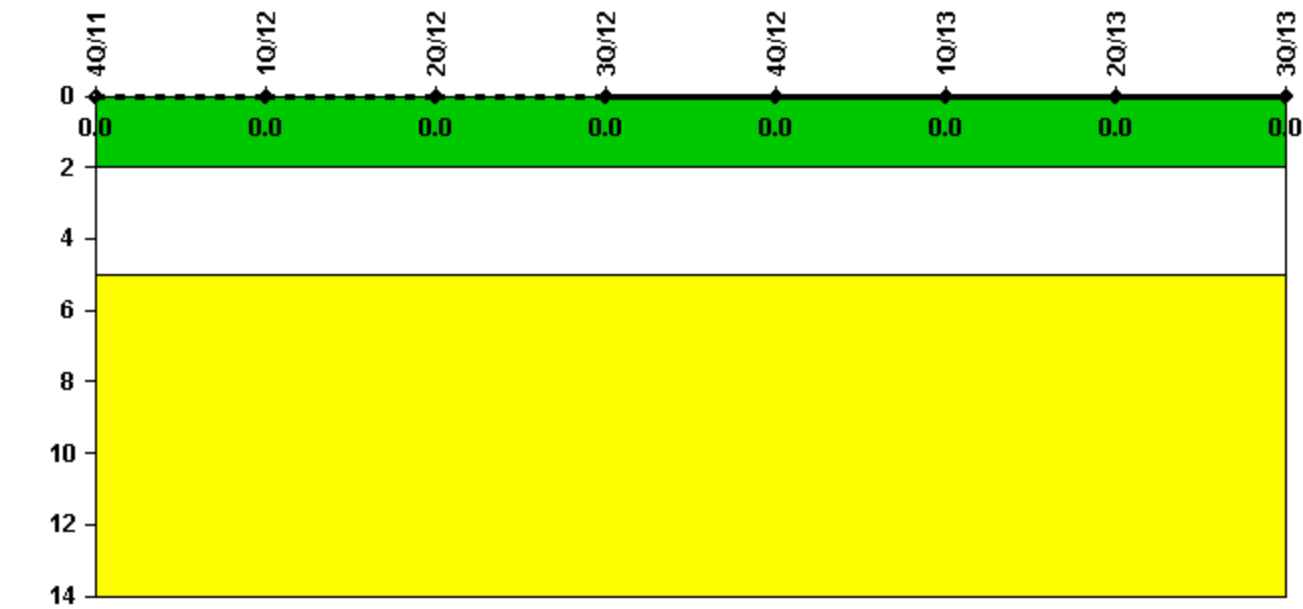
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful siren-tests	183	183	183	182	183	182	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.7%	99.9%	99.9%	99.9%	99.9%	99.7%	99.7%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



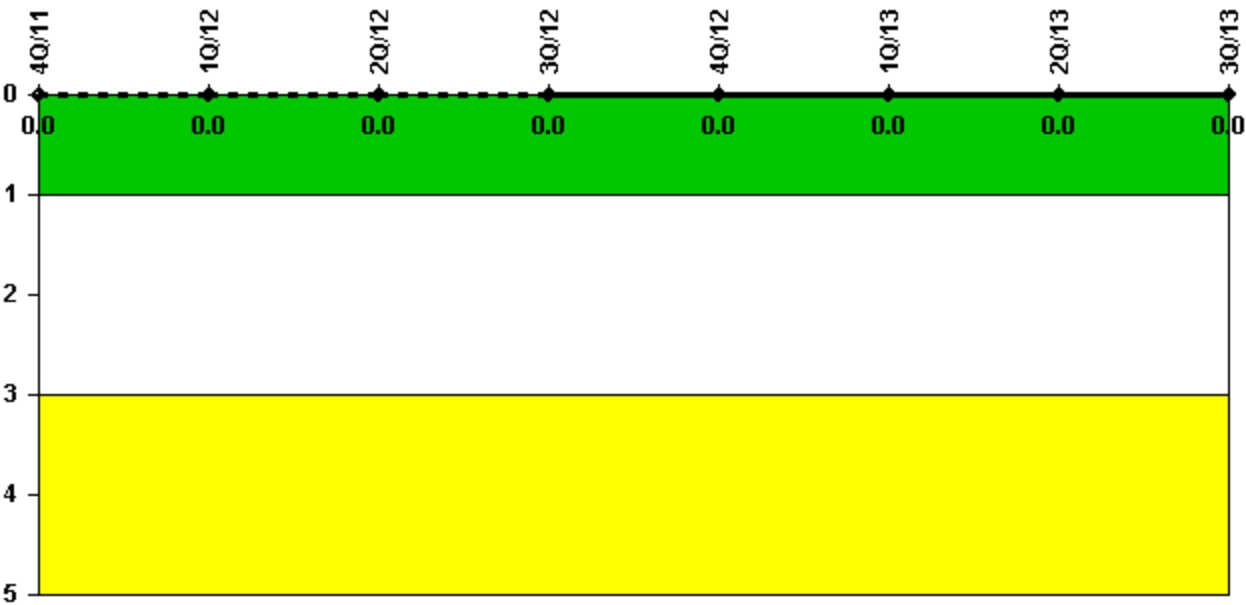
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

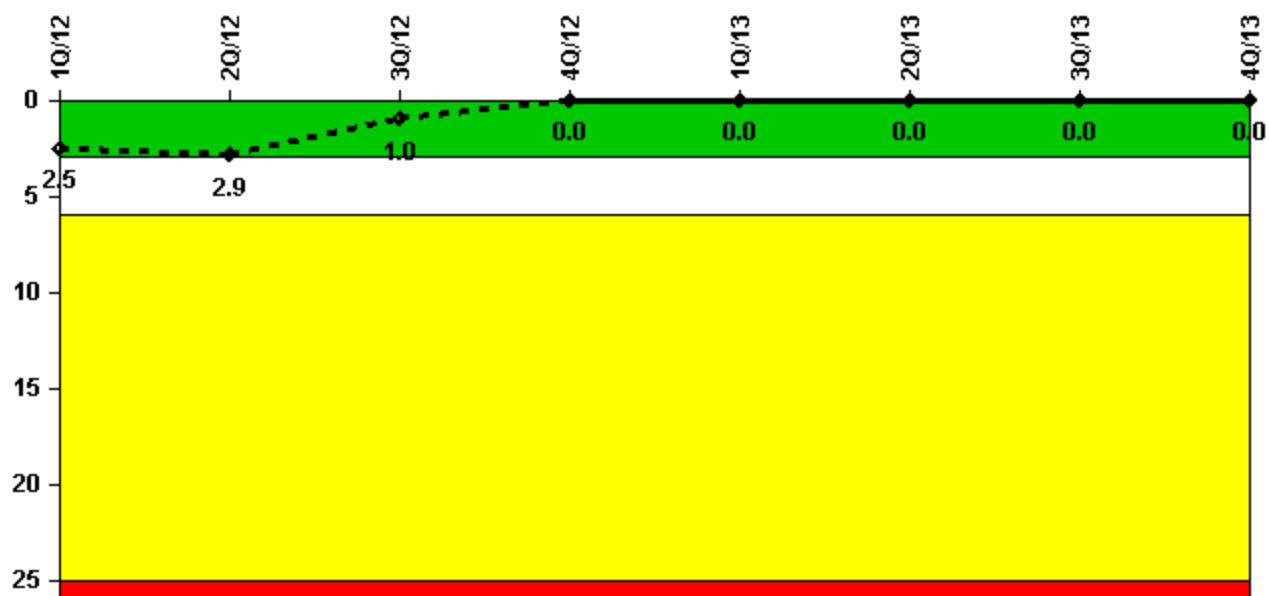
Palisades

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



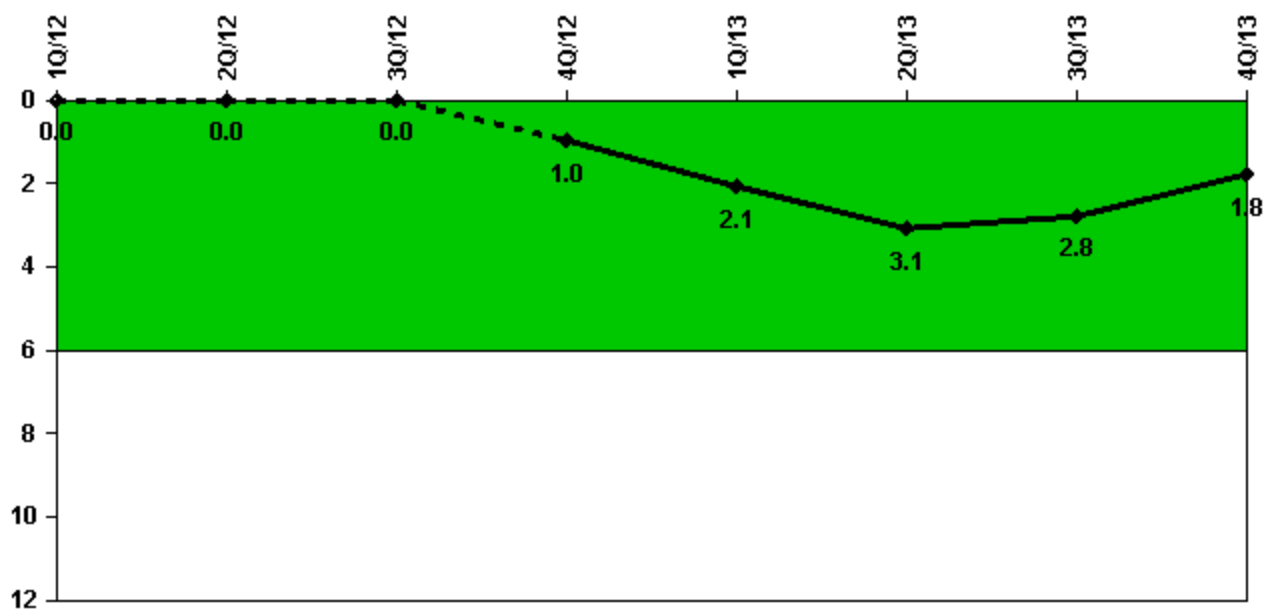
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	2108.4	965.4	1544.8	2151.5	2017.0	1158.4	2208.0	2209.0
Indicator value	2.5	2.9	1.0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



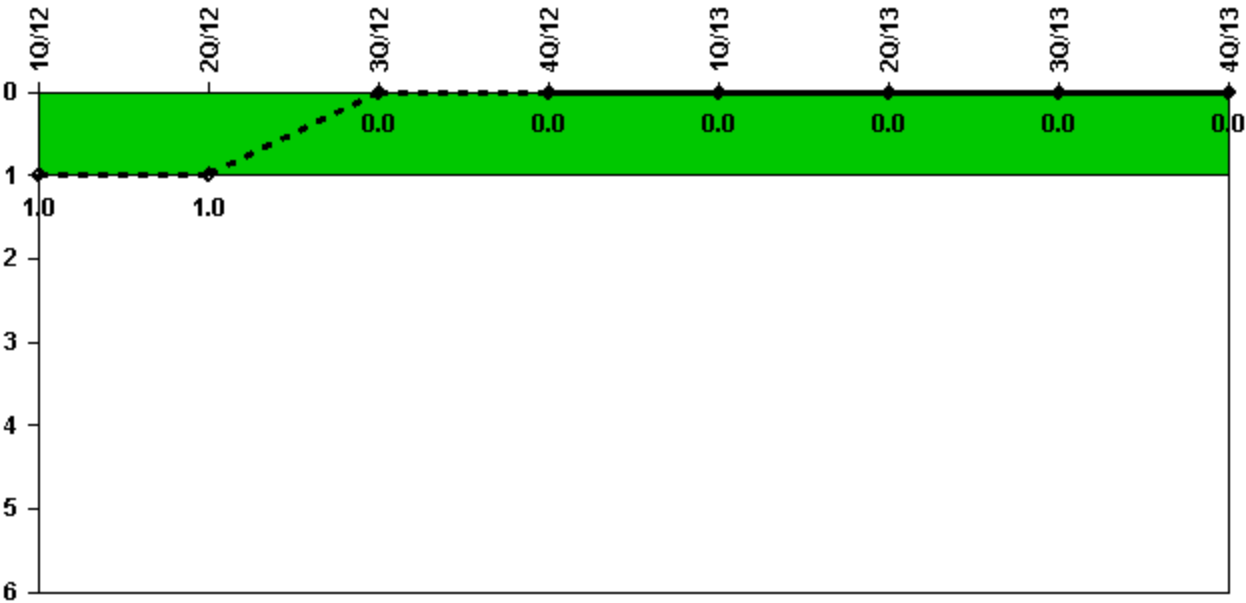
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned power changes	0	0	0	1.0	1.0	1.0	0	0
Critical hours	2108.4	965.4	1544.8	2151.5	2017.0	1158.4	2208.0	2209.0
Indicator value	0	0	0	1.0	2.1	3.1	2.8	1.8

Licensee Comments: none

Unplanned Scrams with Complications



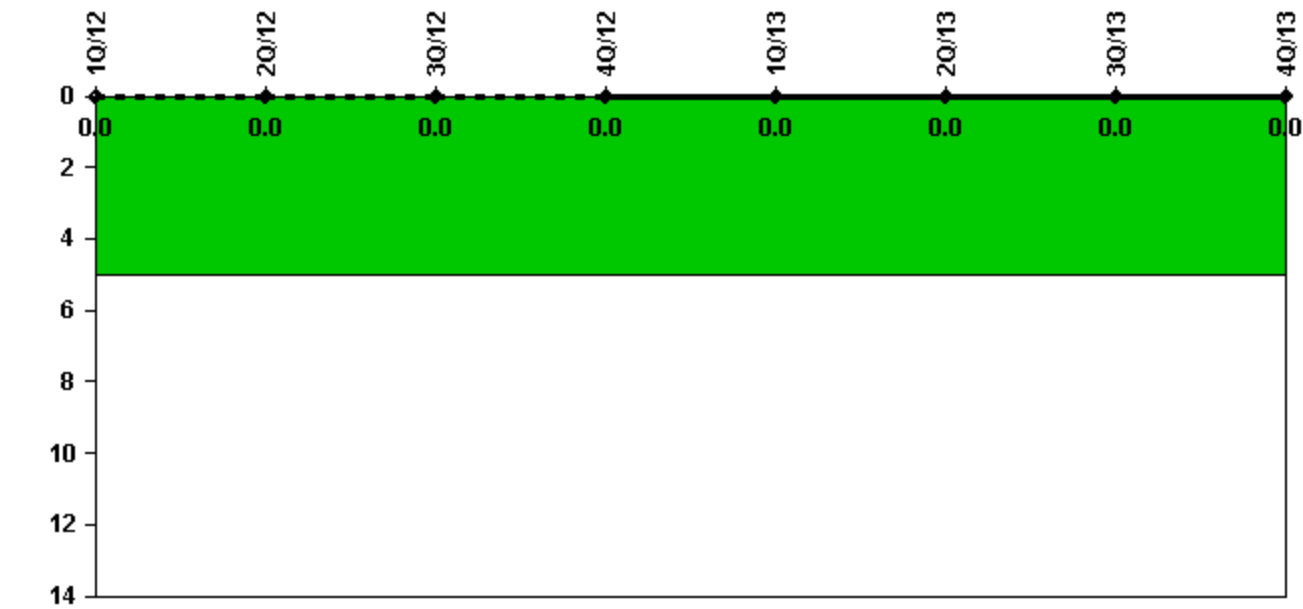
Thresholds: White > 1.0

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	1.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



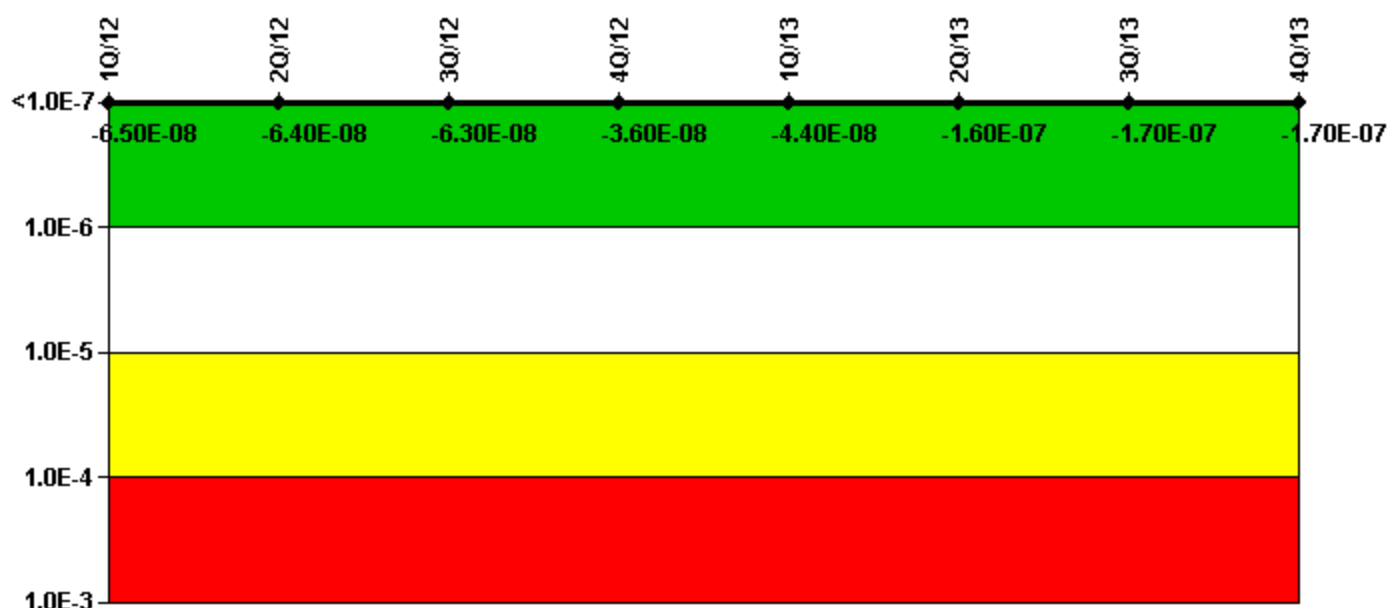
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	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

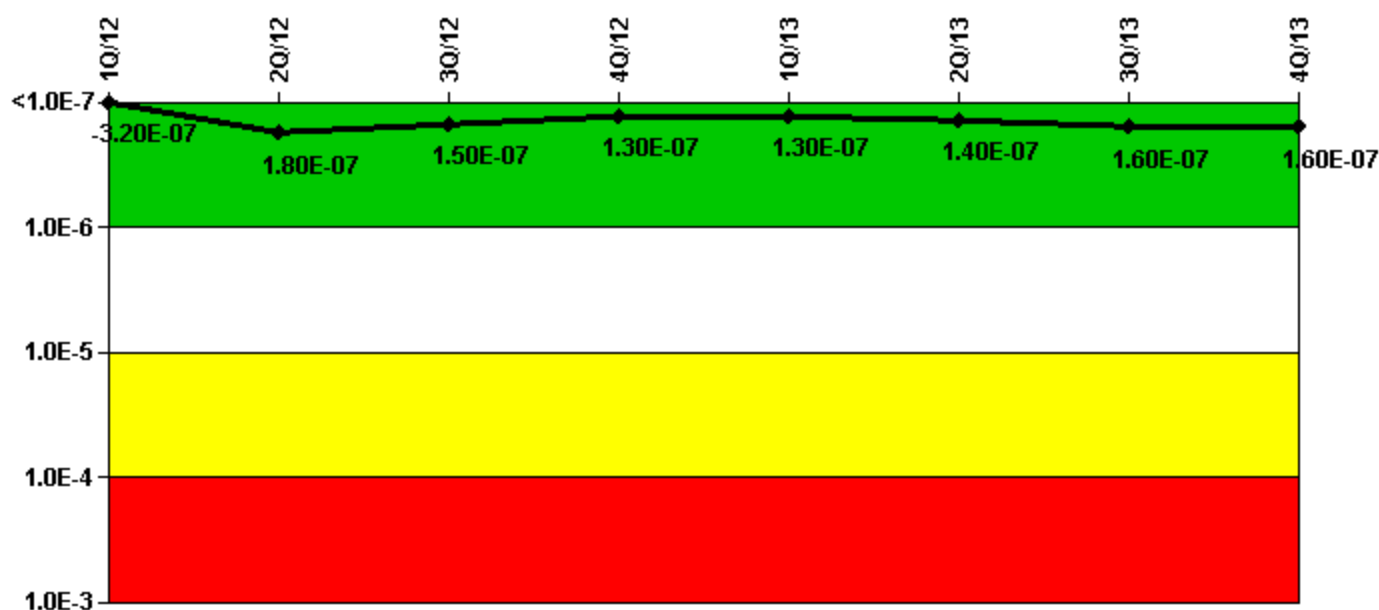
Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-2.36E-08	-2.35E-08	-2.34E-08	2.06E-09	-6.50E-09	4.86E-09	-6.13E-09	-1.14E-08
URI (Δ CDF)	-4.15E-08	-4.04E-08	-3.94E-08	-3.83E-08	-3.72E-08	-1.63E-07	-1.62E-07	-1.62E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.50E-08	-6.40E-08	-6.30E-08	-3.60E-08	-4.40E-08	-1.60E-07	-1.70E-07	-1.70E-07

Licensee Comments:

1Q/12: MSPI Basis Document update made to address Frequently Asked Question (FAQ) 484 (11-07) "FOTP Failures" and FAQ 480 (11-06) "EDG Run Hour Reporting". Revised Emergency Diesel Generator load demand and run-time estimates due to FAQ 480.

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)	-5.41E-08	-5.12E-08	-8.27E-08	-1.03E-07	-1.03E-07	-9.51E-08	-7.30E-08	-6.99E-08
URI (Δ CDF)	-2.65E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.20E-07	1.80E-07	1.50E-07	1.30E-07	1.30E-07	1.40E-07	1.60E-07	1.60E-07

Licensee Comments:

4Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

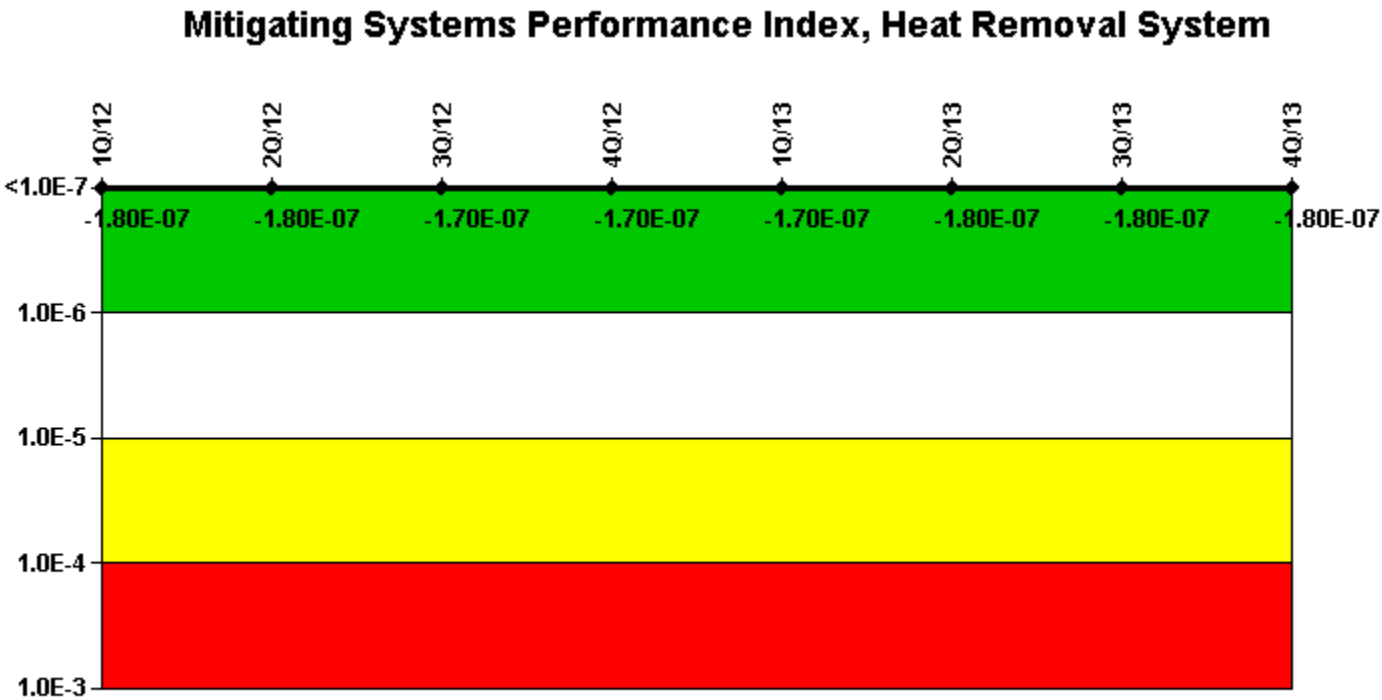
2Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked.

3Q/12: Risk Cap Invoked.

2Q/12: Risk Cap Invoked.



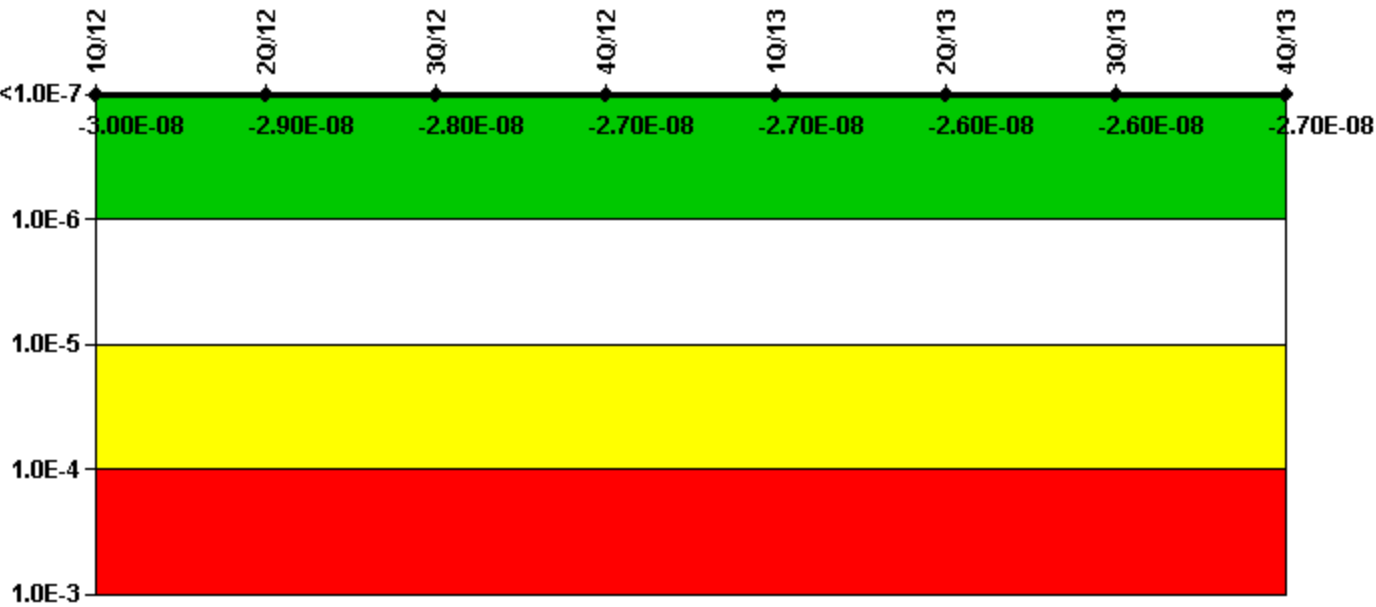
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	1.82E-08	1.87E-08	3.35E-08	3.15E-08	3.26E-08	2.13E-08	2.16E-08	2.11E-08
URI (ΔCDF)	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.80E-07	-1.70E-07	-1.70E-07	-1.70E-07	-1.80E-07	-1.80E-07	-1.80E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



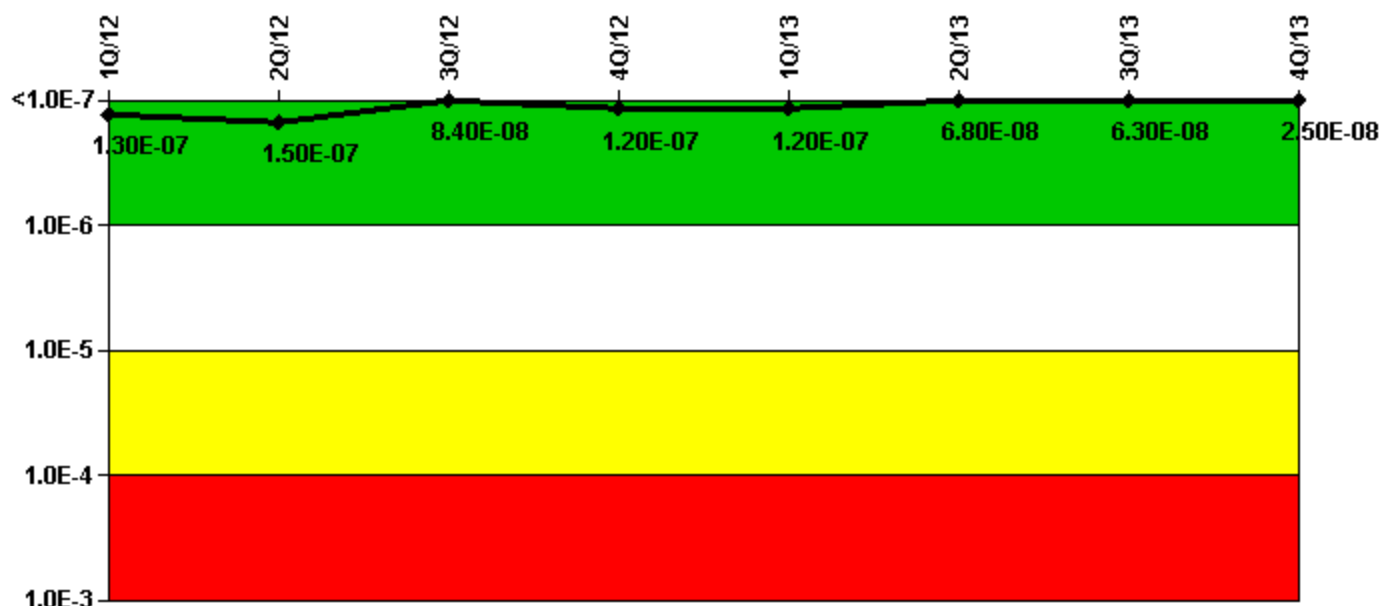
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	1.07E-08	1.16E-08	1.28E-08	1.29E-08	1.32E-08	1.49E-08	1.48E-08	1.36E-08
URI (ΔCDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.00E-08	-2.90E-08	-2.80E-08	-2.70E-08	-2.70E-08	-2.60E-08	-2.60E-08	-2.70E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



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

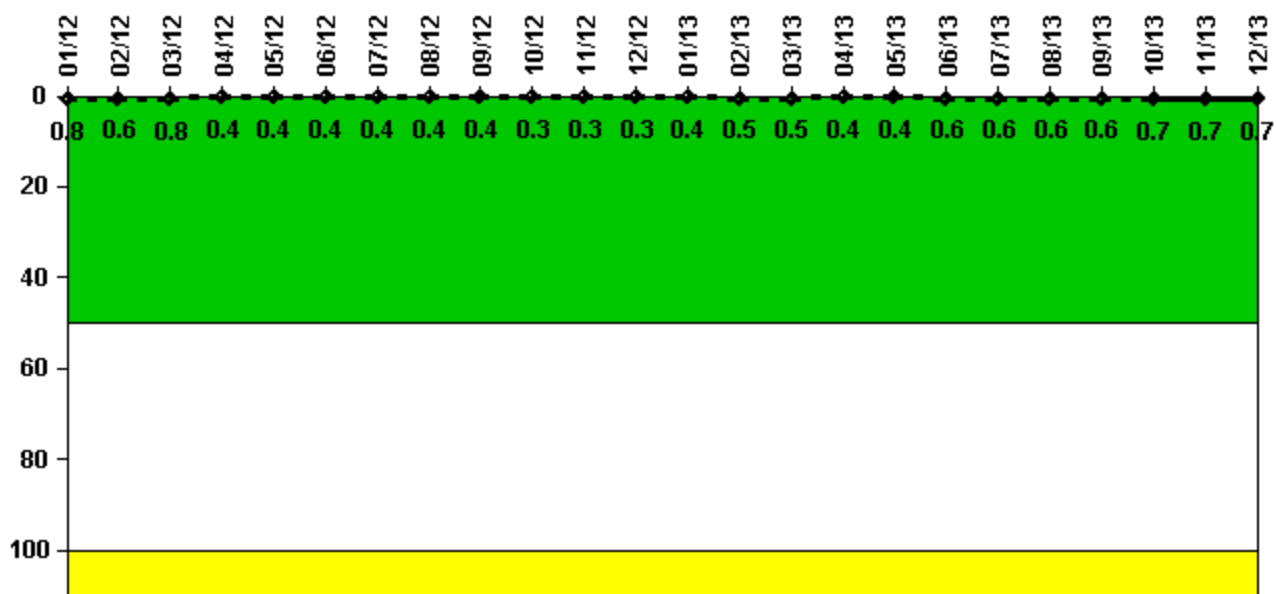
Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	2.75E-07	2.97E-07	2.70E-07	3.07E-07	3.03E-07	2.55E-07	2.49E-07	2.12E-07
URI (ΔCDF)	-1.42E-07	-1.42E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.30E-07	1.50E-07	8.40E-08	1.20E-07	1.20E-07	6.80E-08	6.30E-08	2.50E-08

Licensee Comments:

1Q/12: MSPI Basis Document update made to address Frequently Asked Question (FAQ) 482 (11-01) "Cooling Water Boundary".

Reactor Coolant System Activity



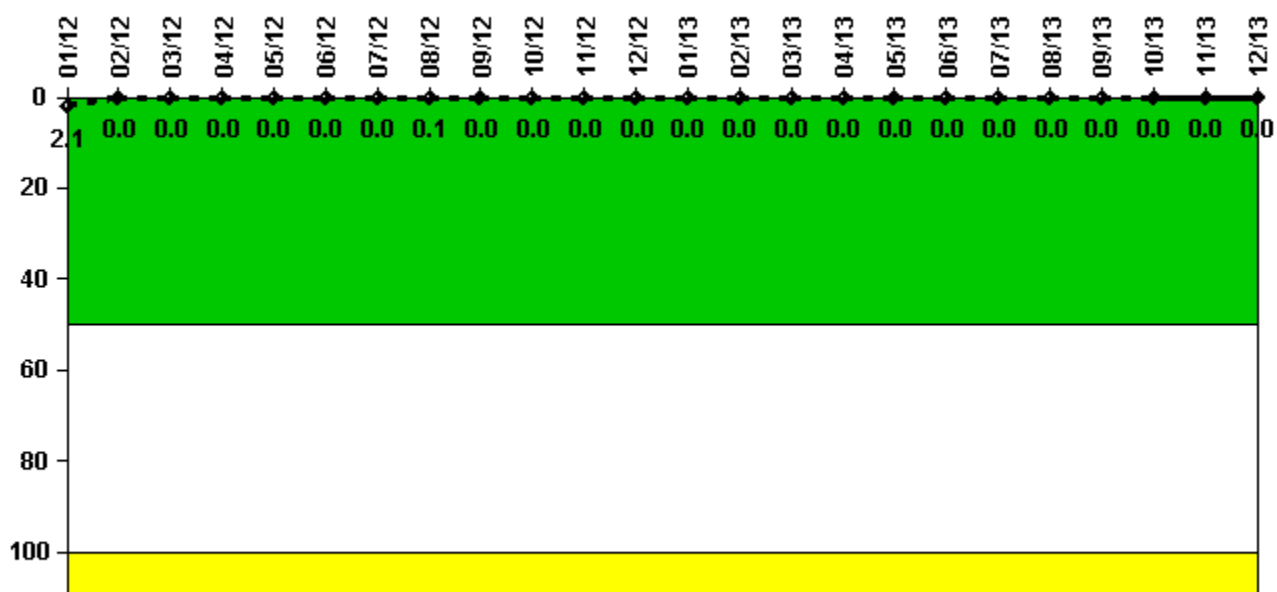
Thresholds: White > 50.0 Yellow > 100.0

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	0.008060	0.006240	0.007910	0.004180	0.003670	0.003660	0.003860	0.003940	0.004060	0.003050	0.003310	0.003360
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.8	0.6	0.8	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3
Reactor Coolant System Activity	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum activity	0.003630	0.004960	0.005250	0.003880	0.003880	0.005740	0.005850	0.006060	0.006420	0.006720	0.006680	0.007040
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.5	0.5	0.4	0.4	0.6	0.6	0.6	0.6	0.7	0.7	0.7

Licensee Comments: none

Reactor Coolant System Leakage



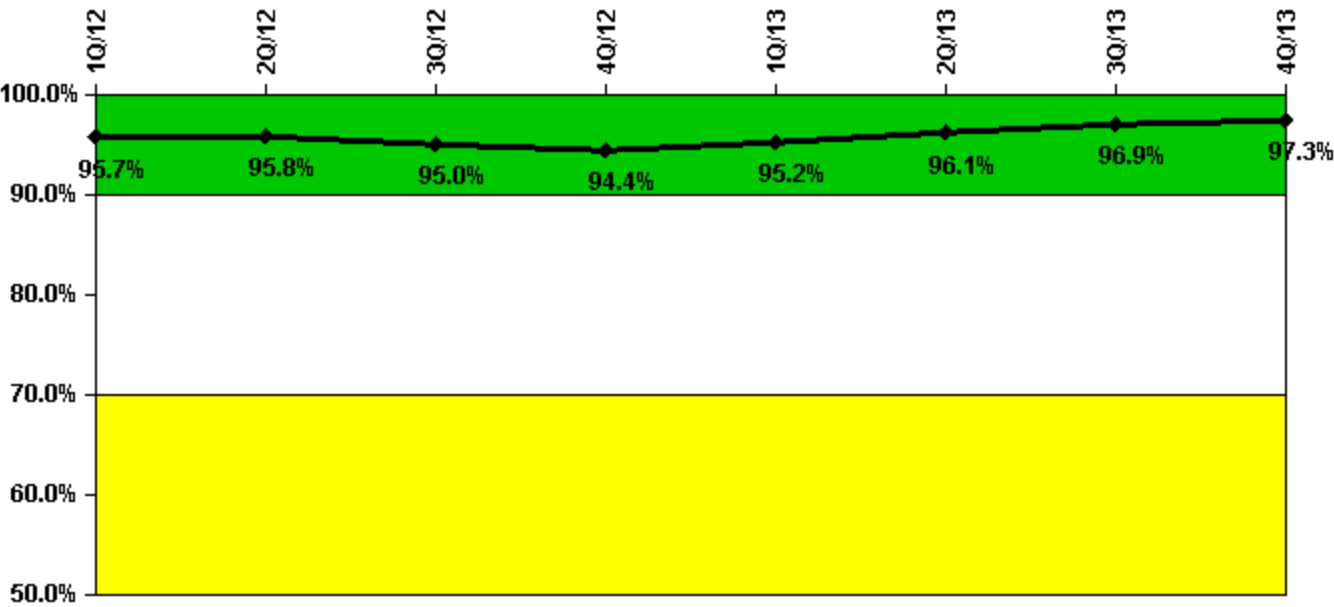
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.211	0.001	0.001	0.001	0.001	0.001	0.001	0.008	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.1	0	0	0	0	0	0	0.1	0	0	0	0
Reactor Coolant System Leakage	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum leakage	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



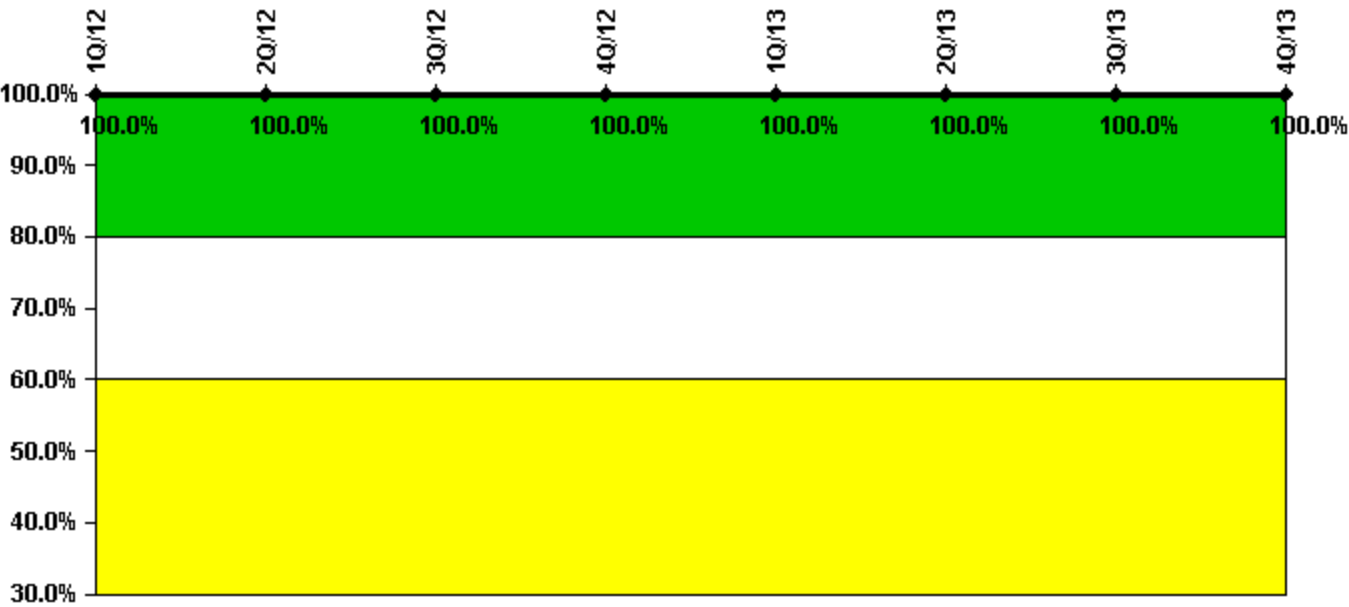
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful opportunities	34.0	16.0	35.0	30.0	68.0	95.0	82.0	44.0
Total opportunities	37.0	17.0	39.0	32.0	68.0	96.0	82.0	44.0
Indicator value	95.7%	95.8%	95.0%	94.4%	95.2%	96.1%	96.9%	97.3%

Licensee Comments: none

ERO Drill Participation



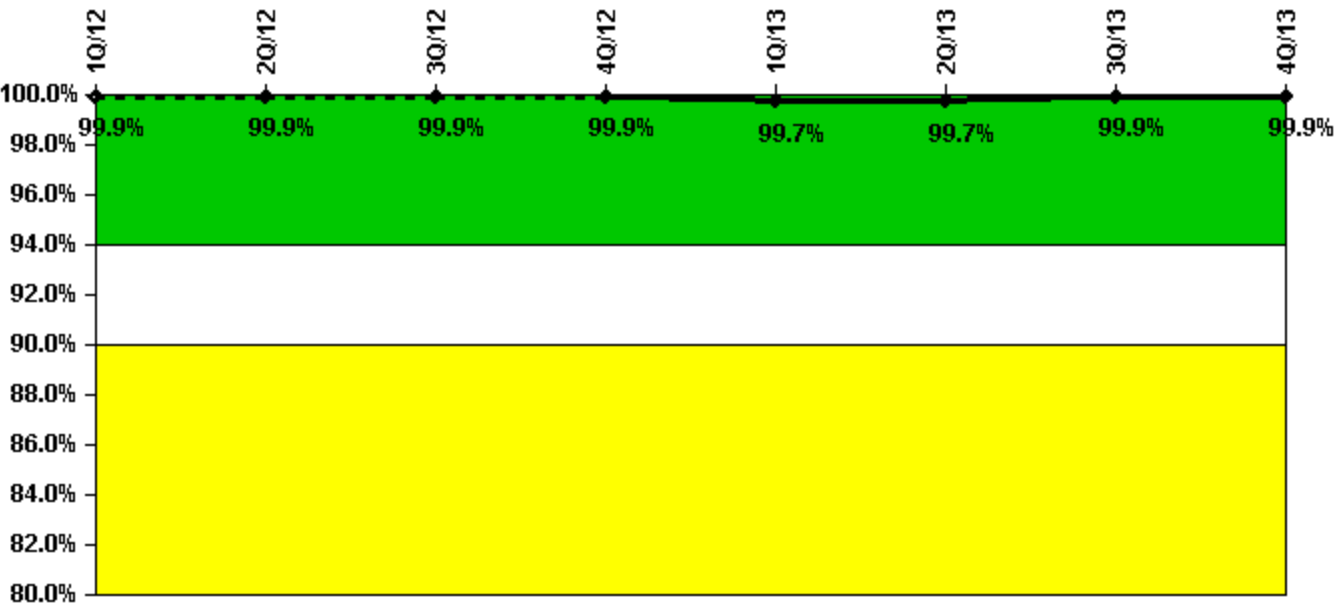
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Participating Key personnel	83.0	84.0	80.0	80.0	80.0	75.0	76.0	72.0
Total Key personnel	83.0	84.0	80.0	80.0	80.0	75.0	76.0	72.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



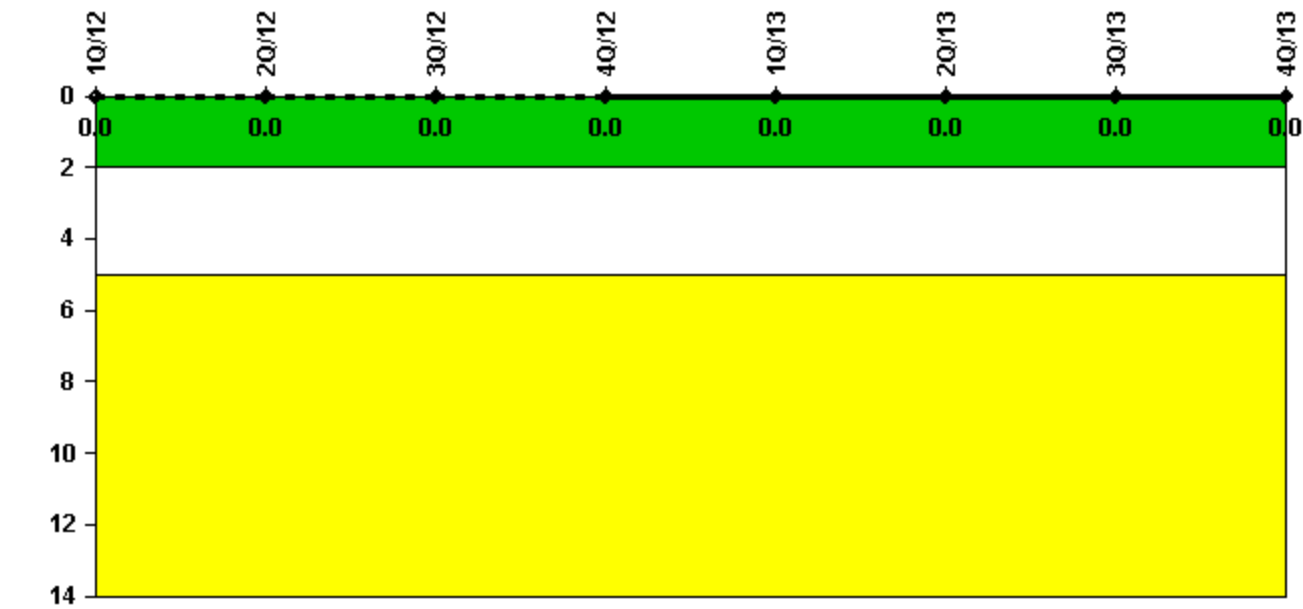
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful siren-tests	183	183	182	183	182	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.9%	99.9%	99.9%	99.9%	99.7%	99.7%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



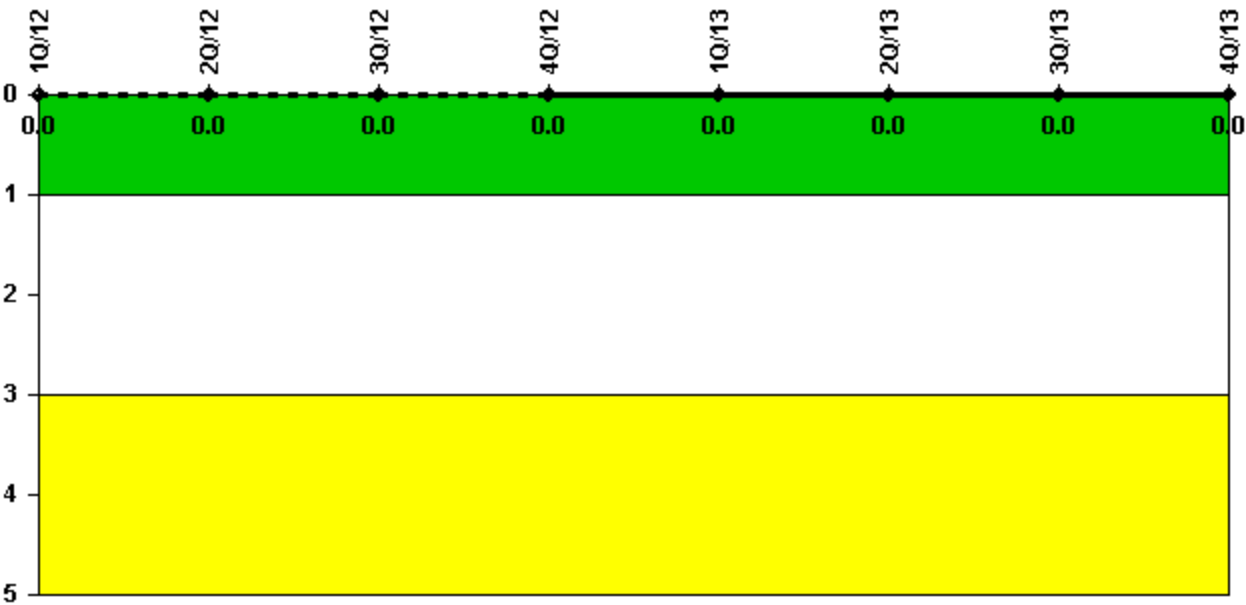
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

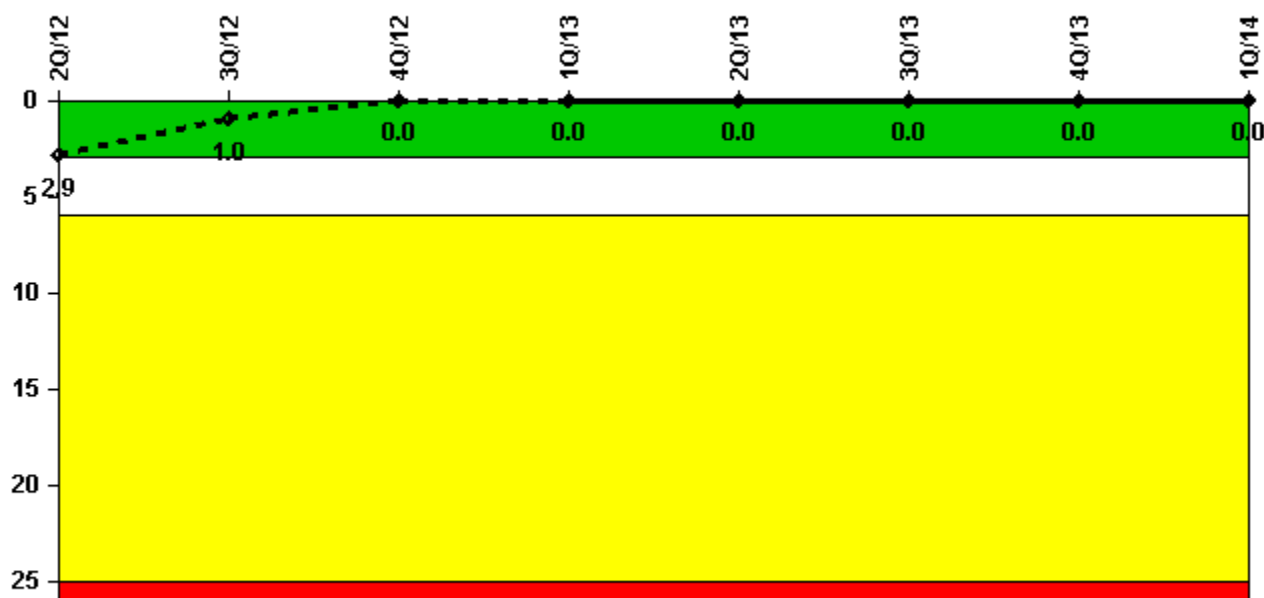
Palisades

1Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: Identified performance indicator data reporting errors in January 2013 for Physical Protection and April 2012 for Occupational Radiation Safety. The errors were corrected. This change report is being submitted with first-quarter 2014 performance indicator data as both the previously reported and amended performance indicator values are within the same performance indicator band. A brief description of the reason for the changes is provided in the comments section for each performance indicator.

Unplanned Scrams per 7000 Critical Hrs



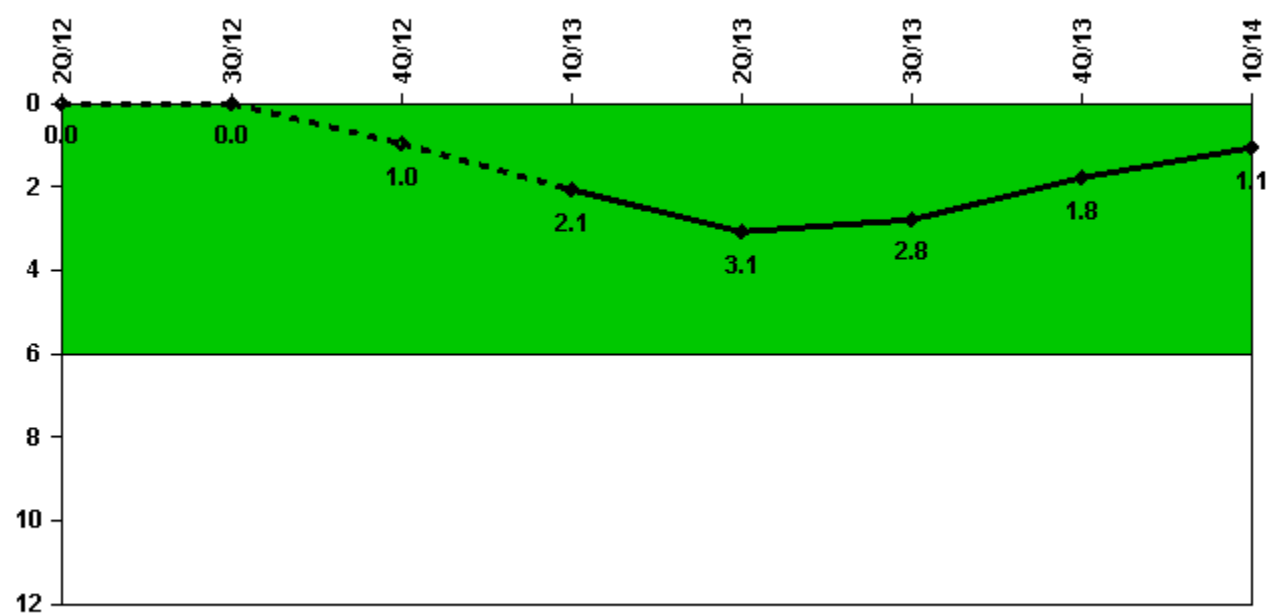
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	965.4	1544.8	2151.5	2017.0	1158.4	2208.0	2209.0	839.1
Indicator value	2.9	1.0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



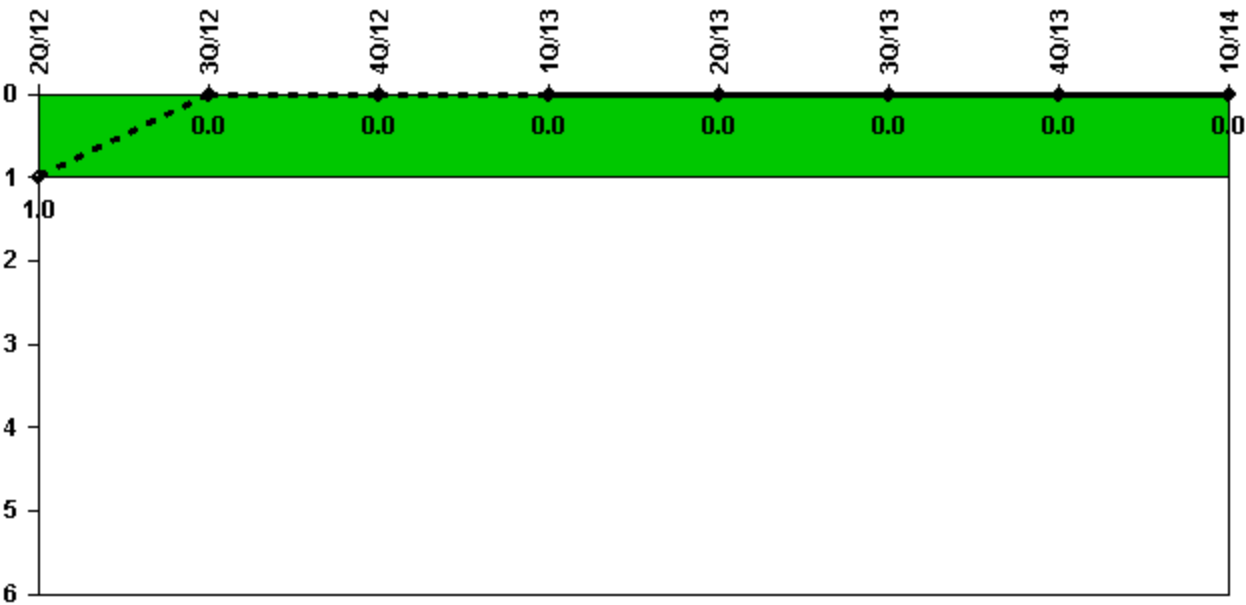
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Unplanned power changes	0	0	1.0	1.0	1.0	0	0	0
Critical hours	965.4	1544.8	2151.5	2017.0	1158.4	2208.0	2209.0	839.1
Indicator value	0	0	1.0	2.1	3.1	2.8	1.8	1.1

Licensee Comments: none

Unplanned Scrams with Complications



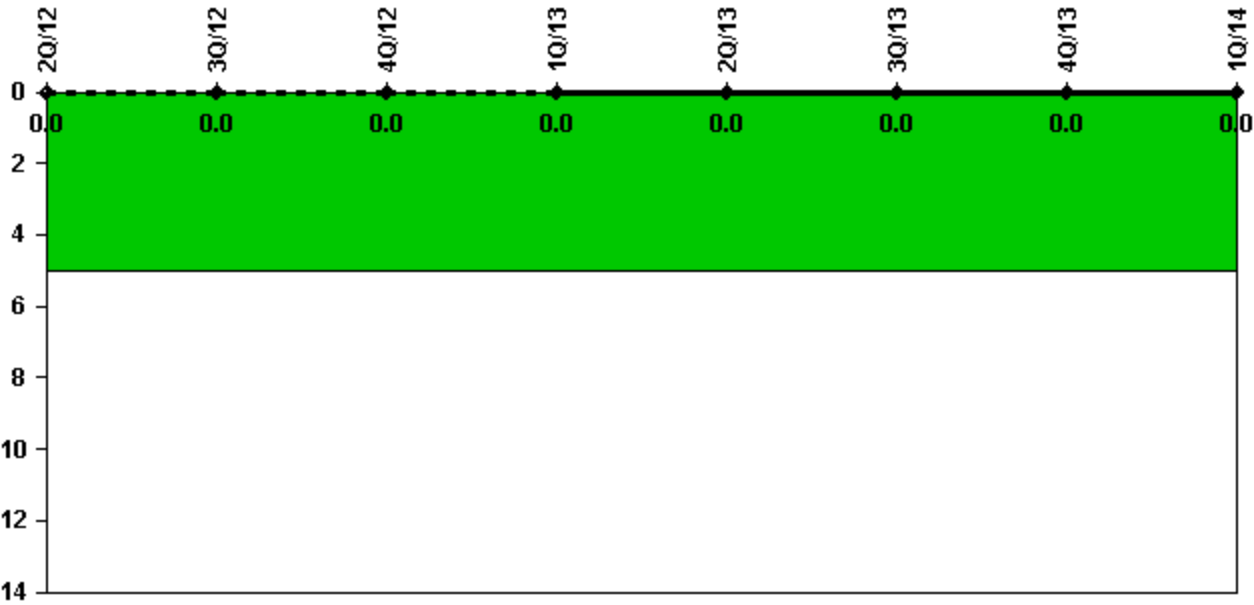
Thresholds: White > 1.0

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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



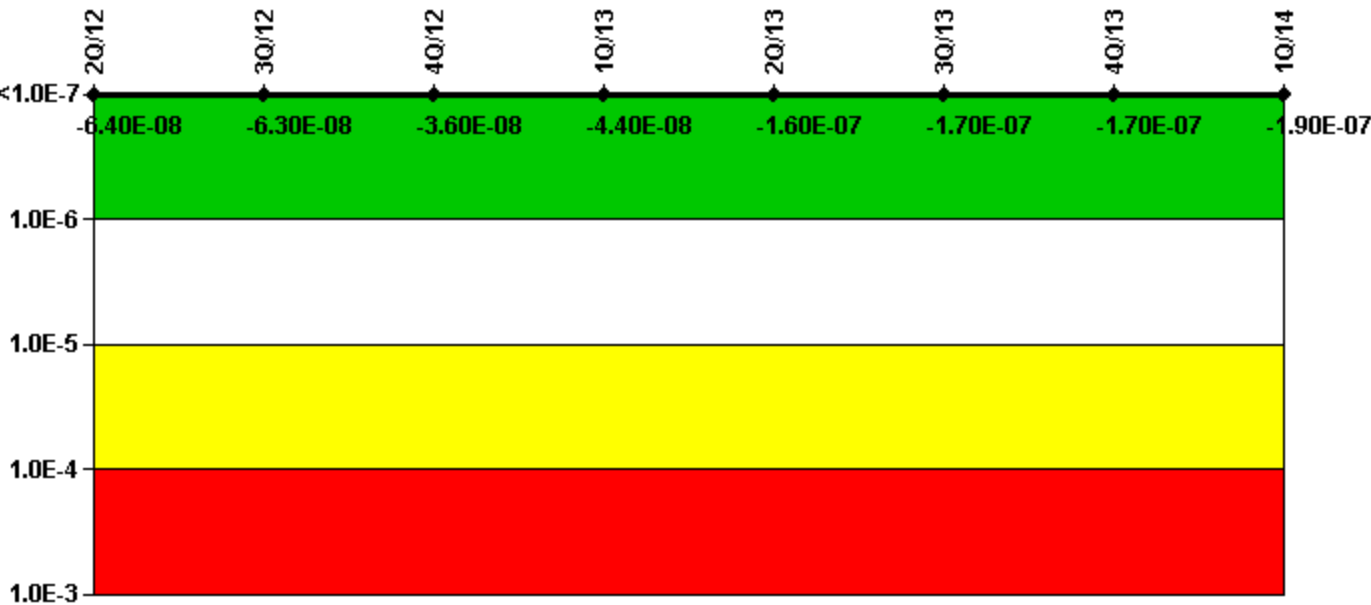
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



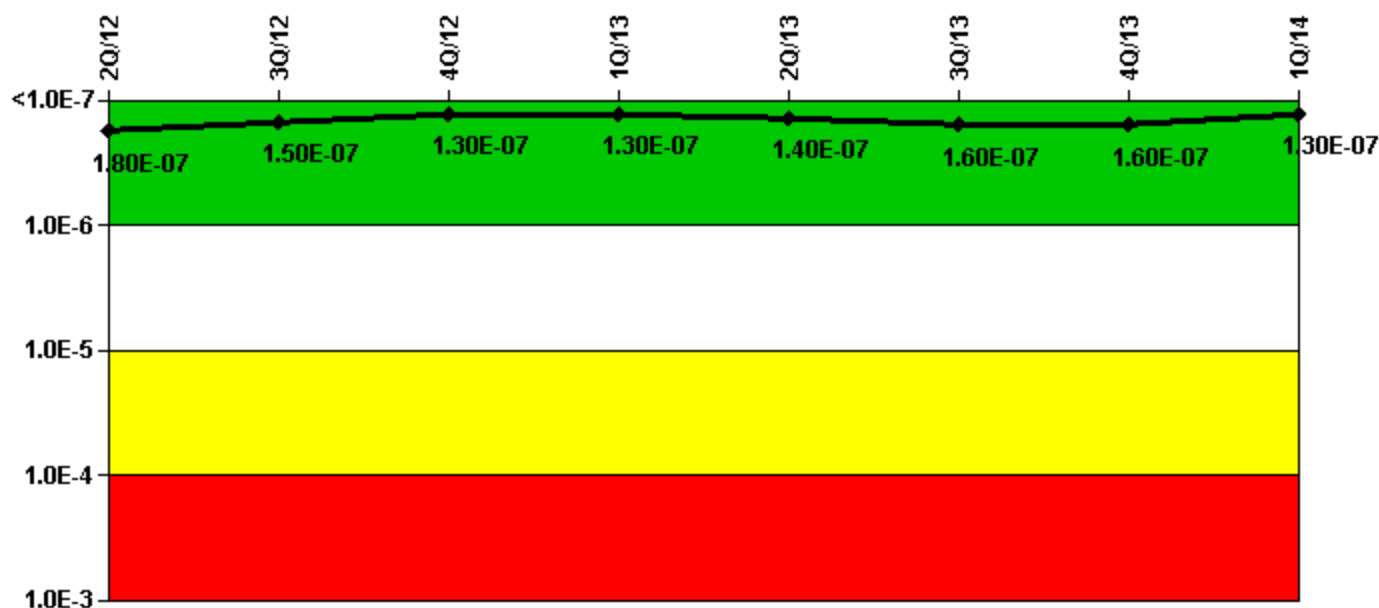
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (ΔCDF)	-2.35E-08	-2.34E-08	2.06E-09	-6.50E-09	4.86E-09	-6.13E-09	-1.14E-08	-2.73E-08
URI (ΔCDF)	-4.04E-08	-3.94E-08	-3.83E-08	-3.72E-08	-1.63E-07	-1.62E-07	-1.62E-07	-1.61E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.40E-08	-6.30E-08	-3.60E-08	-4.40E-08	-1.60E-07	-1.70E-07	-1.70E-07	-1.90E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (Δ CDF)	-5.12E-08	-8.27E-08	-1.03E-07	-1.03E-07	-9.51E-08	-7.30E-08	-6.99E-08	-1.06E-07
URI (Δ CDF)	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.80E-07	1.50E-07	1.30E-07	1.30E-07	1.40E-07	1.60E-07	1.60E-07	1.30E-07

Licensee Comments:

1Q/14: Risk Cap Invoked.

4Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

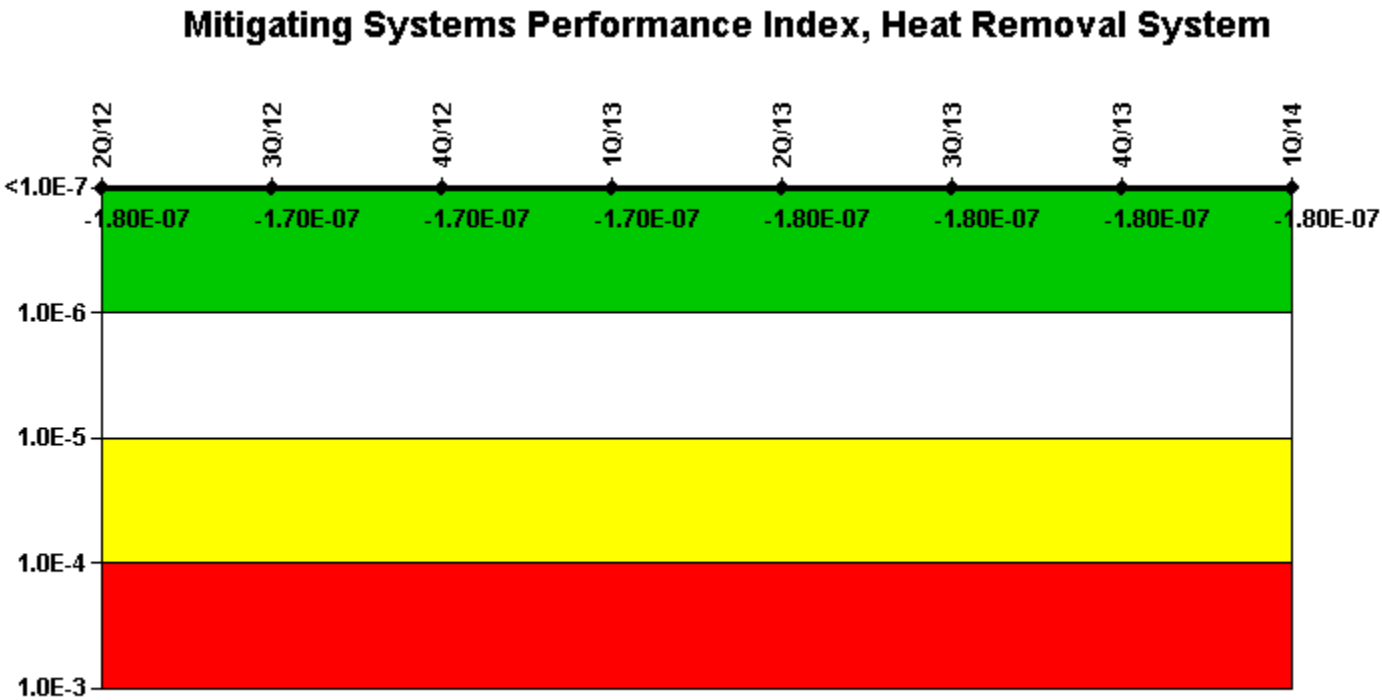
2Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked.

3Q/12: Risk Cap Invoked.

2Q/12: Risk Cap Invoked.



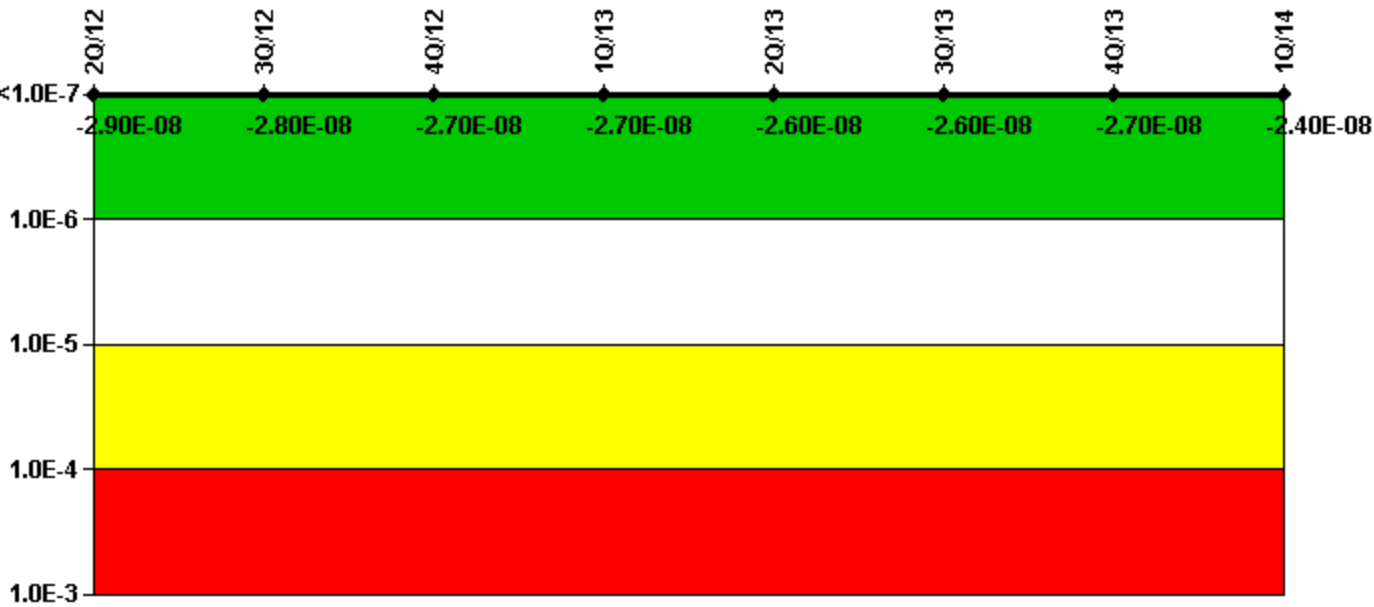
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (ΔCDF)	1.87E-08	3.35E-08	3.15E-08	3.26E-08	2.13E-08	2.16E-08	2.11E-08	1.60E-08
URI (ΔCDF)	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.70E-07	-1.70E-07	-1.70E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.80E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



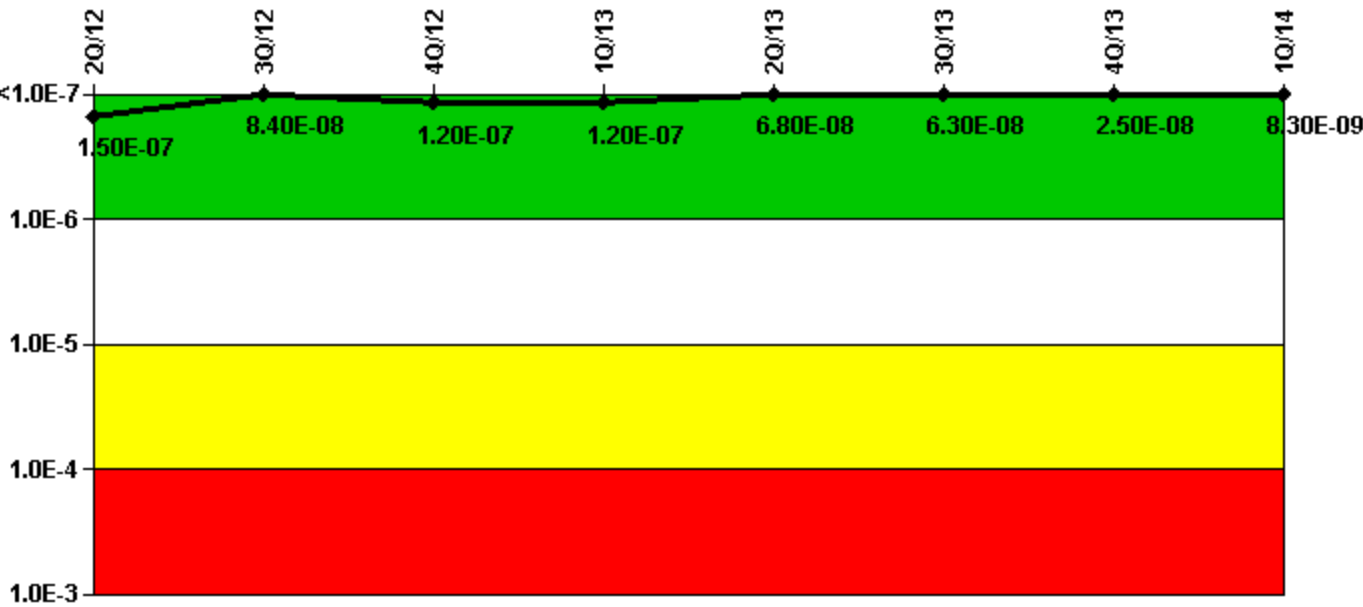
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (ΔCDF)	1.16E-08	1.28E-08	1.29E-08	1.32E-08	1.49E-08	1.48E-08	1.36E-08	1.62E-08
URI (ΔCDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-08	-2.80E-08	-2.70E-08	-2.70E-08	-2.60E-08	-2.60E-08	-2.70E-08	-2.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



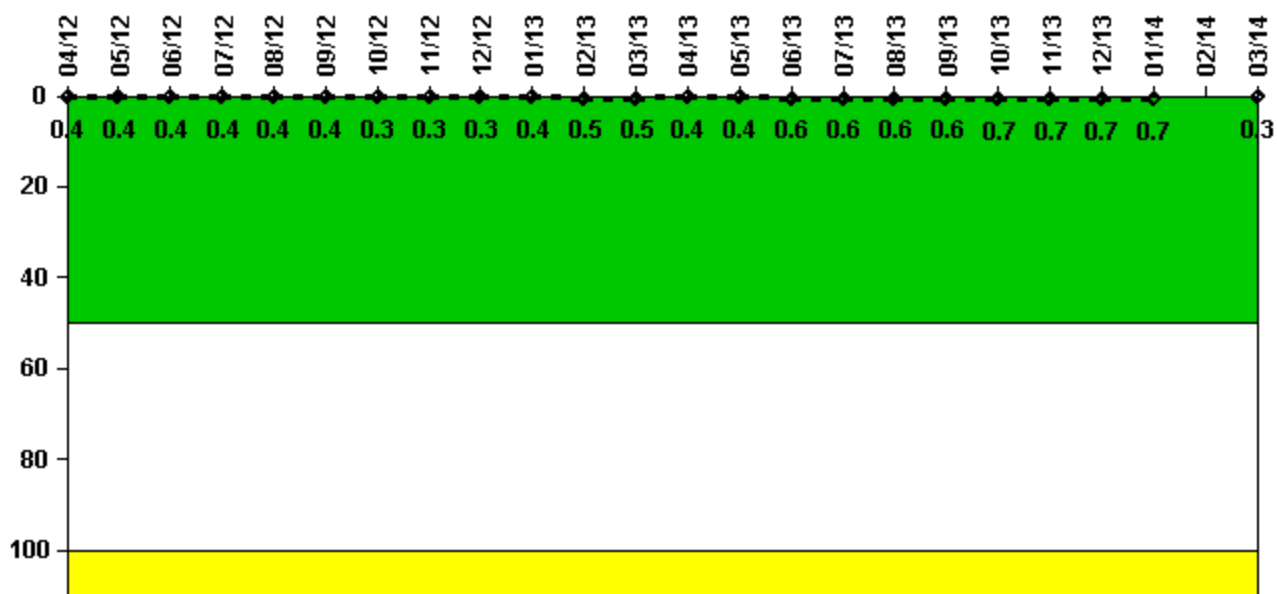
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (ΔCDF)	2.97E-07	2.70E-07	3.07E-07	3.03E-07	2.55E-07	2.49E-07	2.12E-07	1.95E-07
URI (ΔCDF)	-1.42E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.50E-07	8.40E-08	1.20E-07	1.20E-07	6.80E-08	6.30E-08	2.50E-08	8.30E-09

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

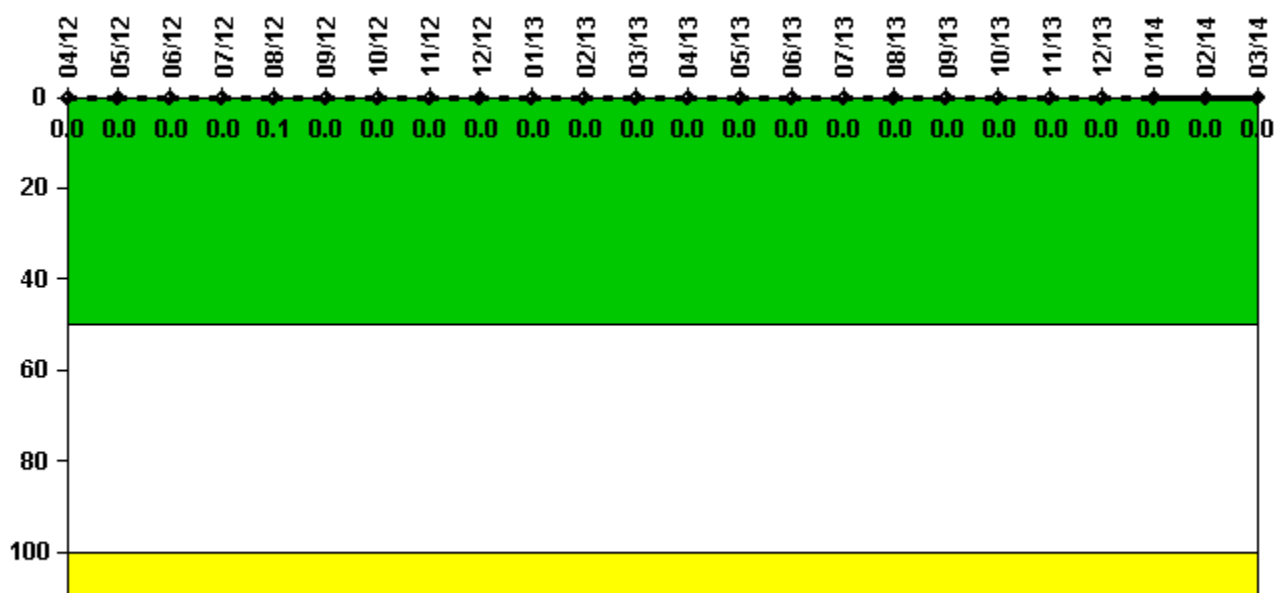
Notes

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	0.004180	0.003670	0.003660	0.003860	0.003940	0.004060	0.003050	0.003310	0.003360	0.003630	0.004960	0.005250
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.4	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5
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	0.003880	0.003880	0.005740	0.005850	0.006060	0.006420	0.006720	0.006680	0.007040	0.007360	N/A	0.002890
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.4	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	N/A	0.3

Licensee Comments:

3/14: Refueling outage for Feb 2014; no sampling per INPO 04-004.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

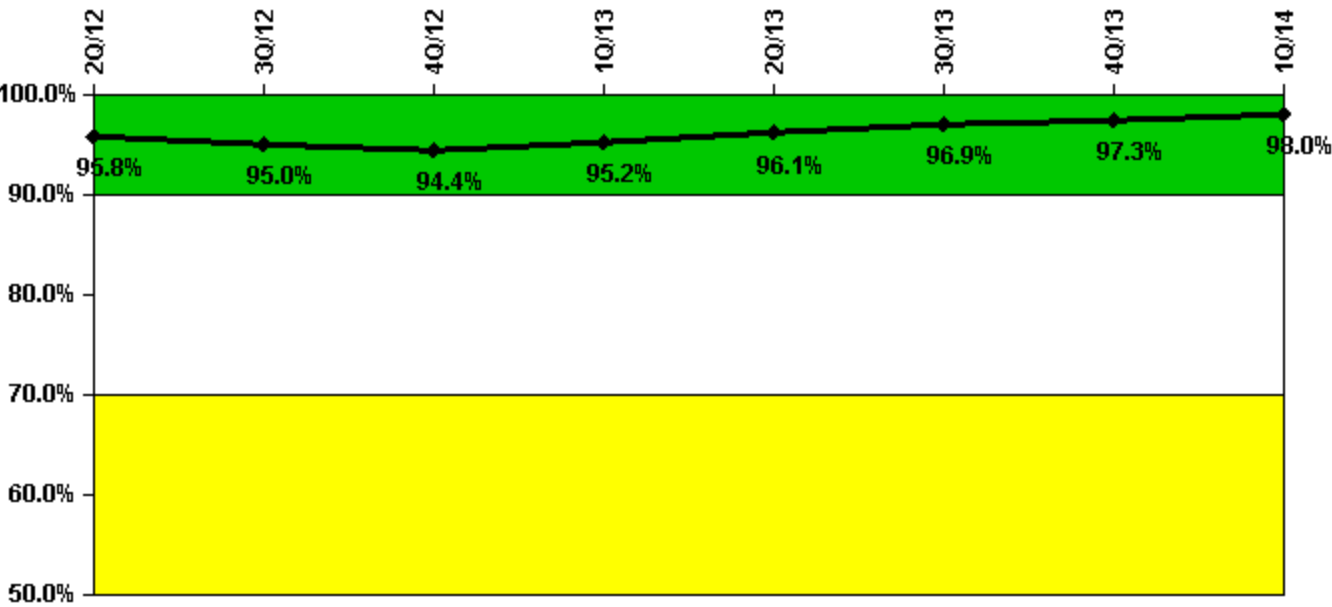
Notes

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	0.001	0.001	0.001	0.001	0.008	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0.1	0	0	0	0	0	0	0

Reactor Coolant System Leakage	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum leakage	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0	0
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



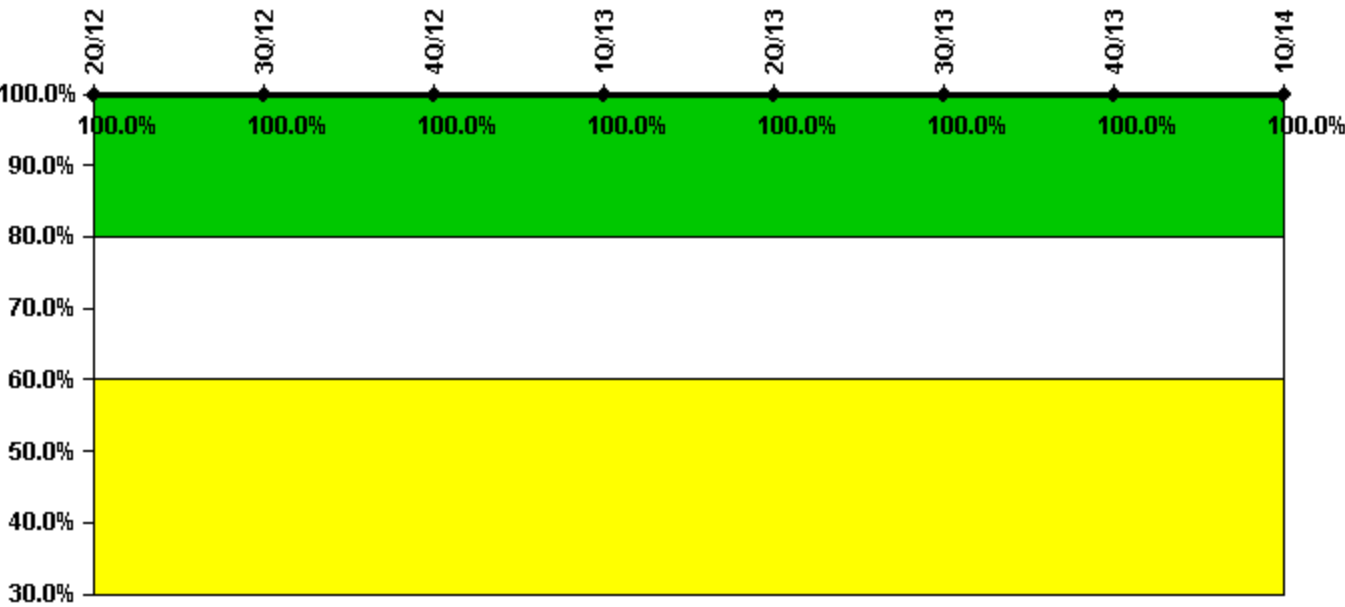
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful opportunities	16.0	35.0	30.0	68.0	95.0	82.0	44.0	32.0
Total opportunities	17.0	39.0	32.0	68.0	96.0	82.0	44.0	32.0
Indicator value	95.8%	95.0%	94.4%	95.2%	96.1%	96.9%	97.3%	98.0%

Licensee Comments: none

ERO Drill Participation



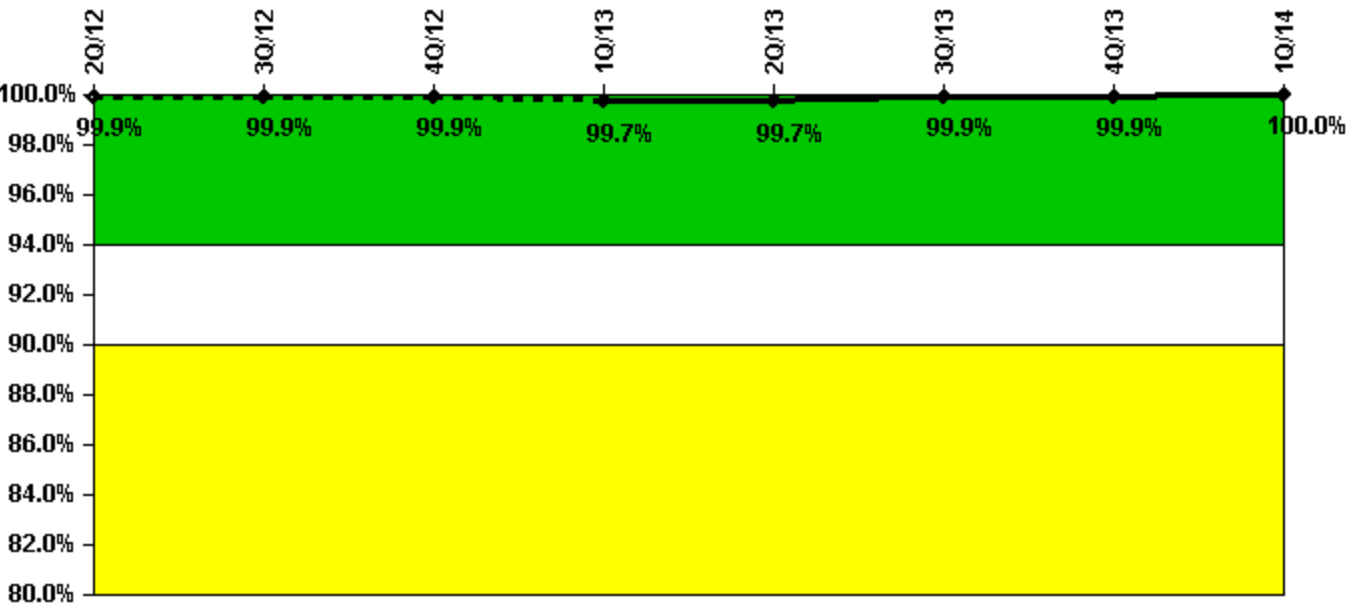
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Participating Key personnel	84.0	80.0	80.0	80.0	75.0	76.0	72.0	70.0
Total Key personnel	84.0	80.0	80.0	80.0	75.0	76.0	72.0	70.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



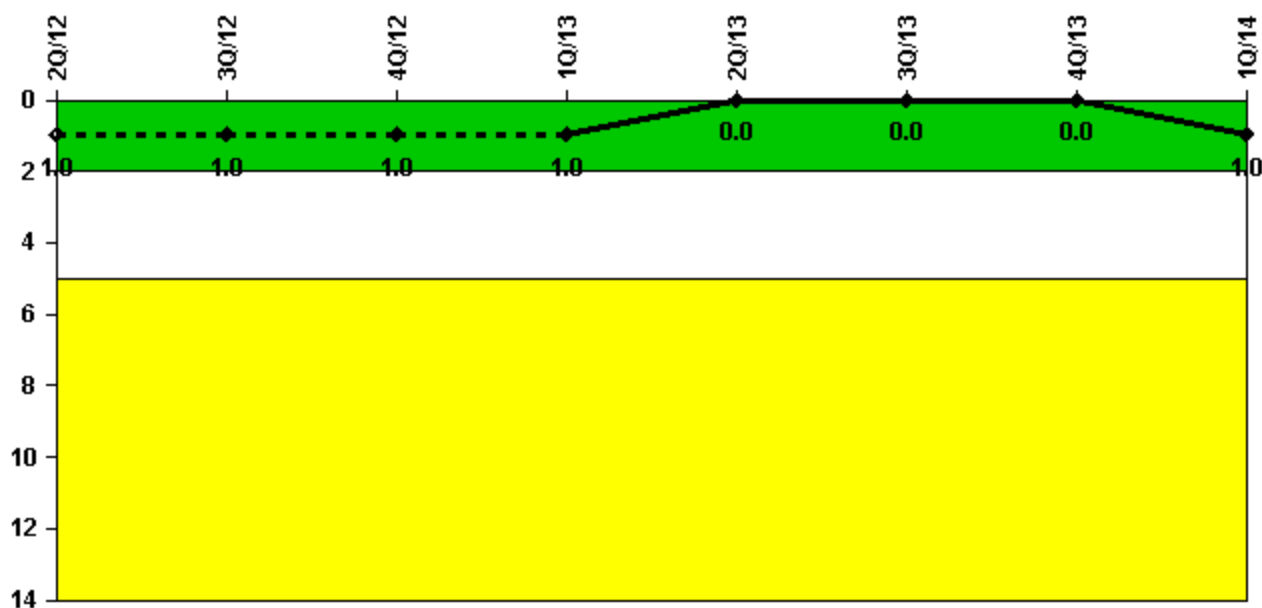
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful siren-tests	183	182	183	182	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.9%	99.9%	99.9%	99.7%	99.7%	99.9%	99.9%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

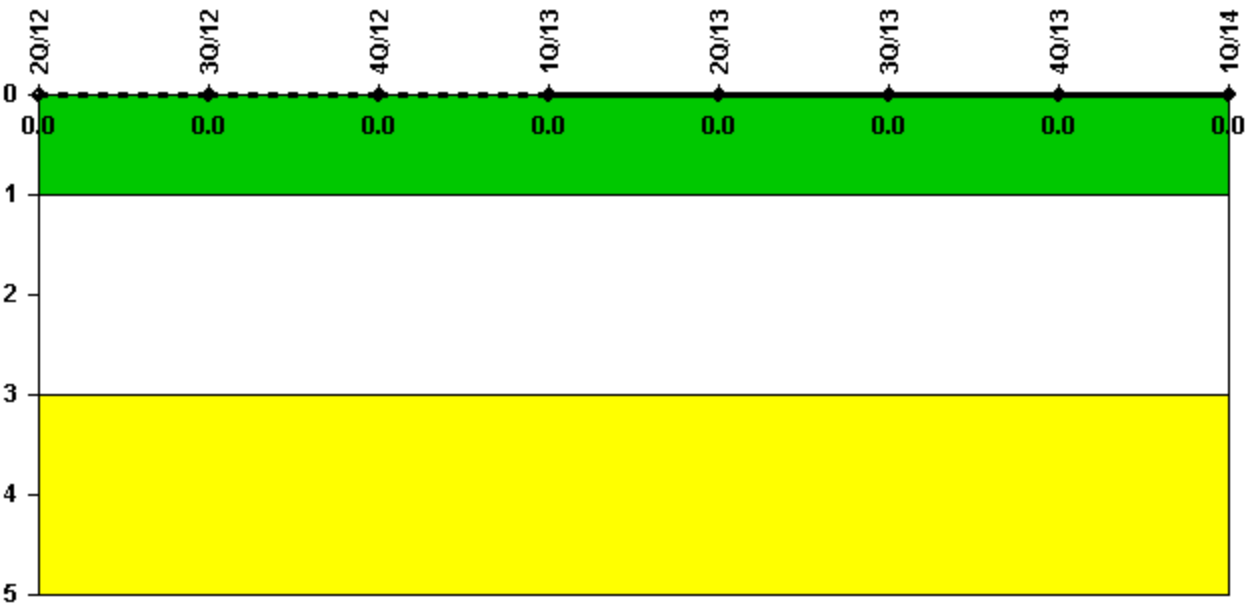
Notes

Occupational Exposure Control Effectiveness	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
High radiation area occurrences	1	0	0	0	0	0	0	1
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	1	1	1	0	0	0	1

Licensee Comments:

2Q/12: Cause for revision - The following condition was identified by the NRC during a December 2013 RP inspection: In April 2012, a RP technician allowed an I & C technician access to a Technical Specification high radiation area without performing a survey to validate assumptions. As a result a dose rate alarm was received. Contrary to TS 5.7.2, entry into the area was granted without determining the actual dose rates and making the individual knowledgeable of the conditions. CR-PLP-2013-05176

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

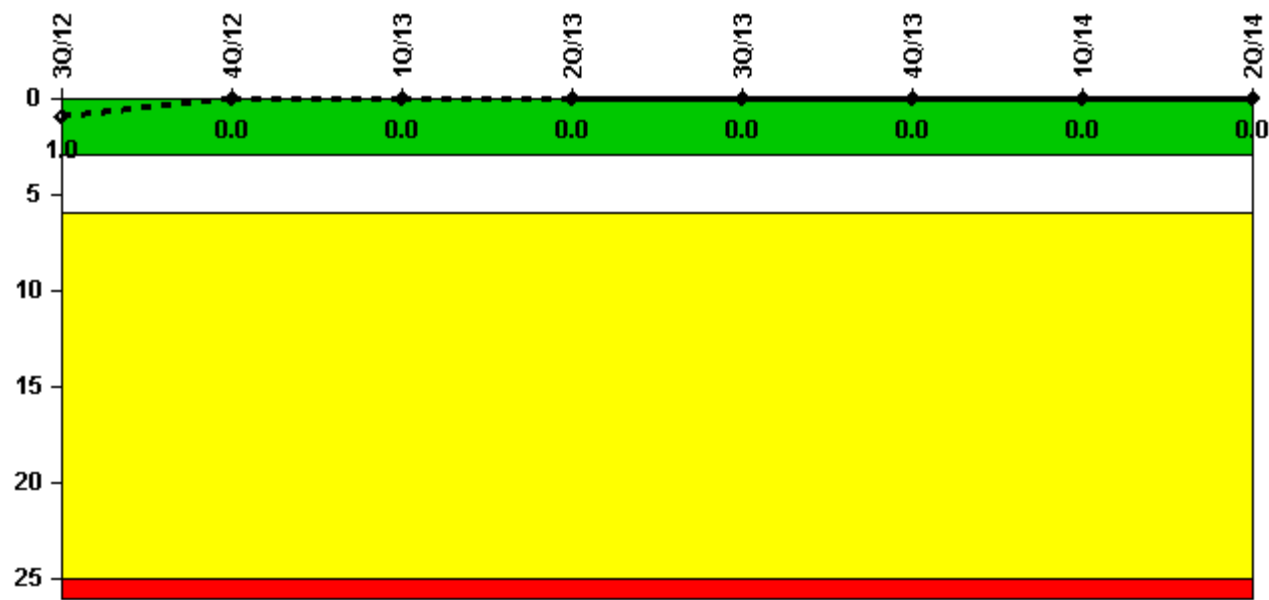
Palisades

2Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



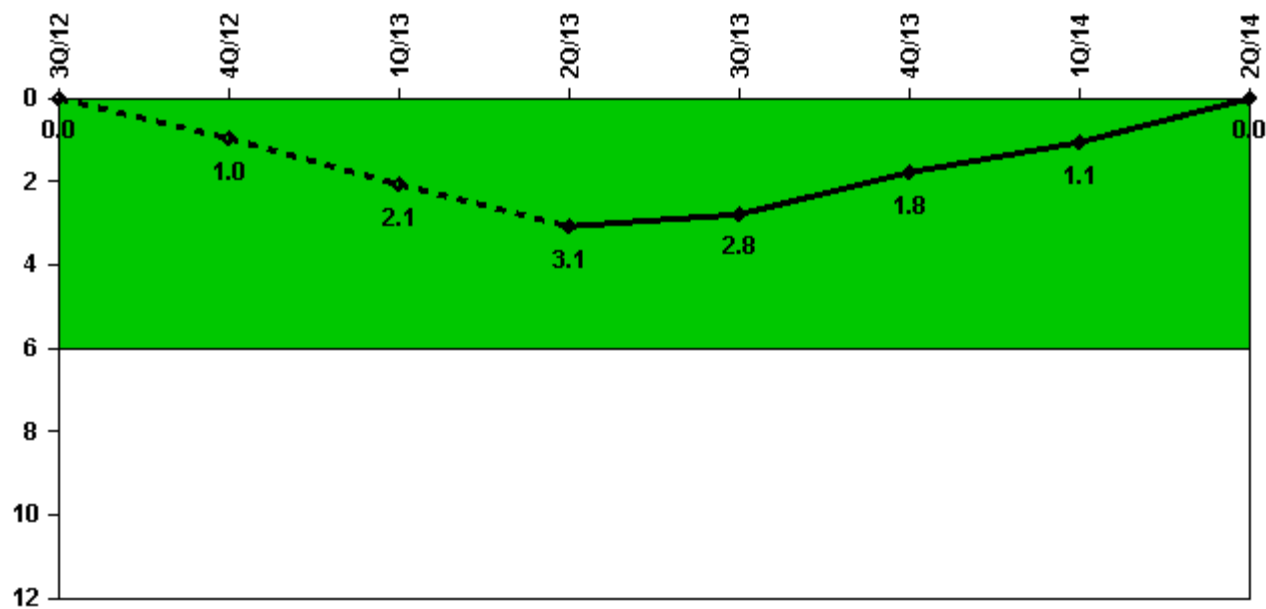
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1544.8	2151.5	2017.0	1158.4	2208.0	2209.0	839.1	2054.0
Indicator value	1.0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



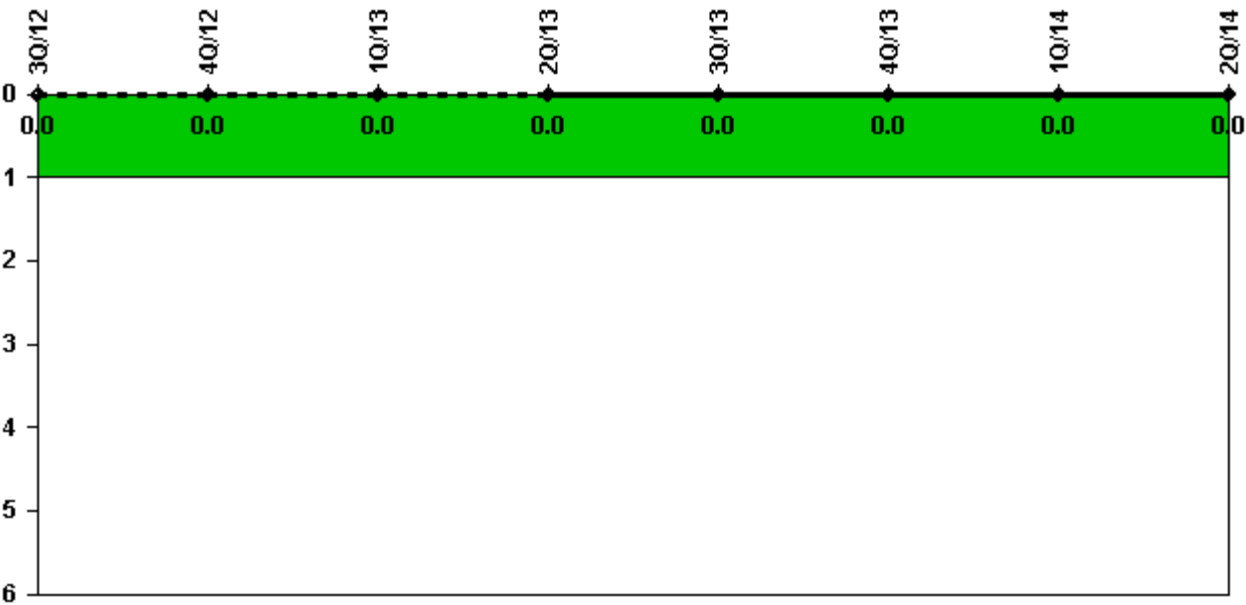
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned power changes	0	1.0	1.0	1.0	0	0	0	0
Critical hours	1544.8	2151.5	2017.0	1158.4	2208.0	2209.0	839.1	2054.0
Indicator value	0	1.0	2.1	3.1	2.8	1.8	1.1	0

Licensee Comments: none

Unplanned Scrams with Complications



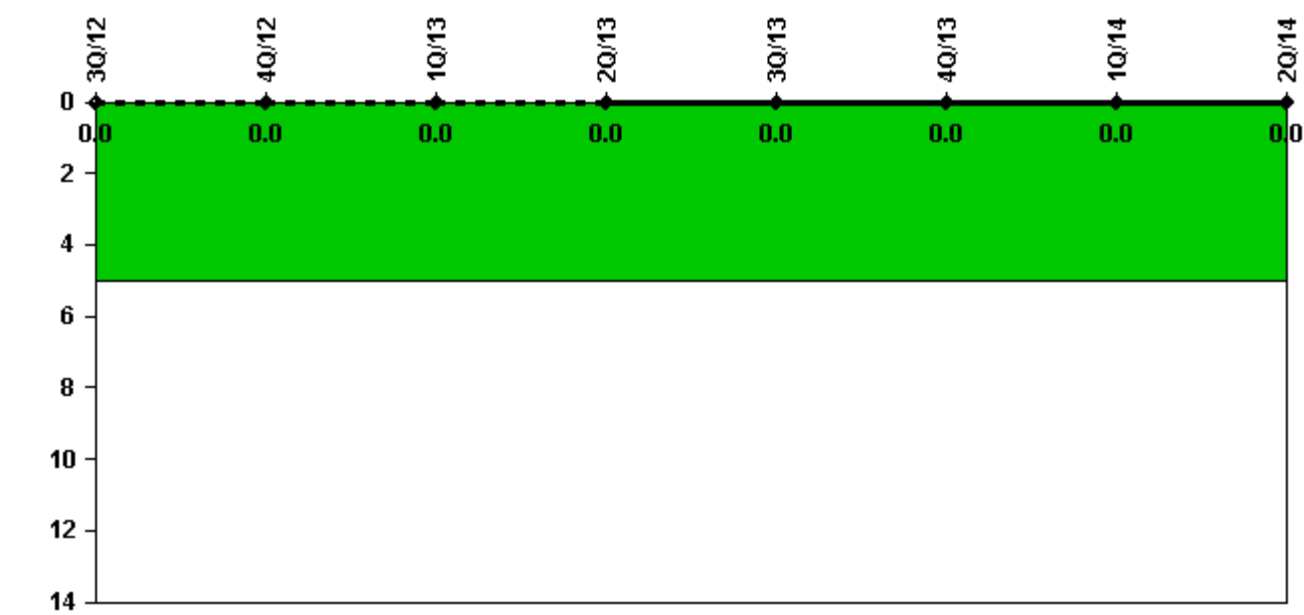
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



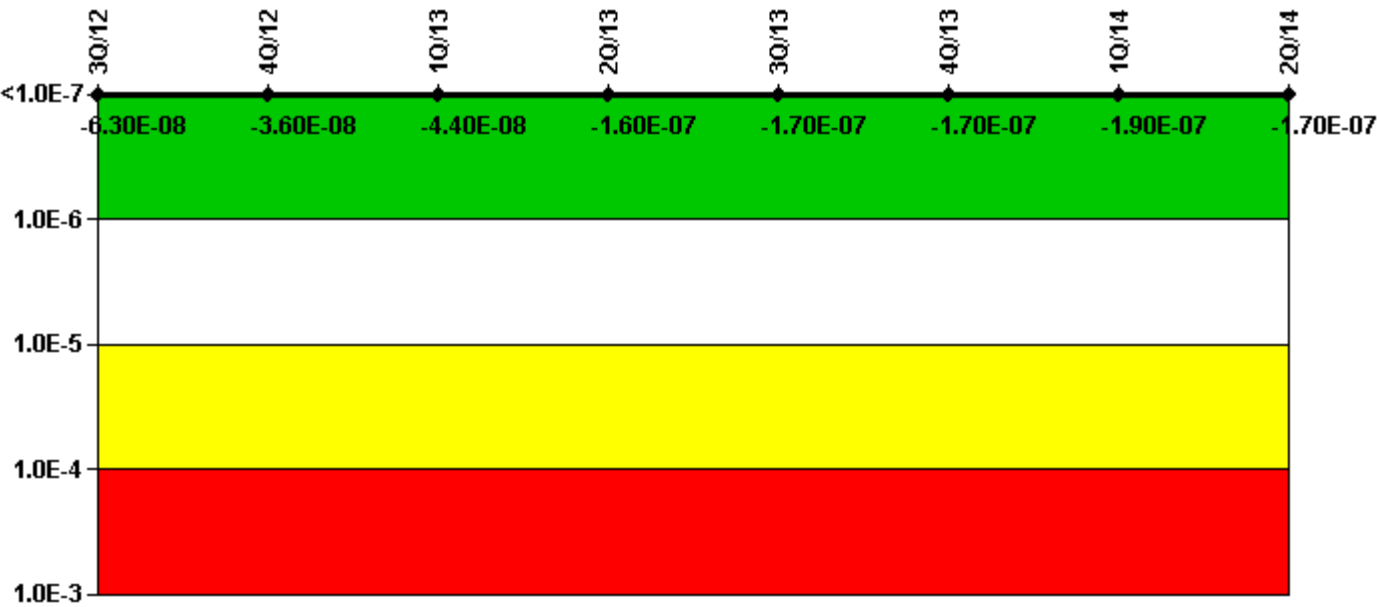
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Safety System Functional Failures	0	0	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



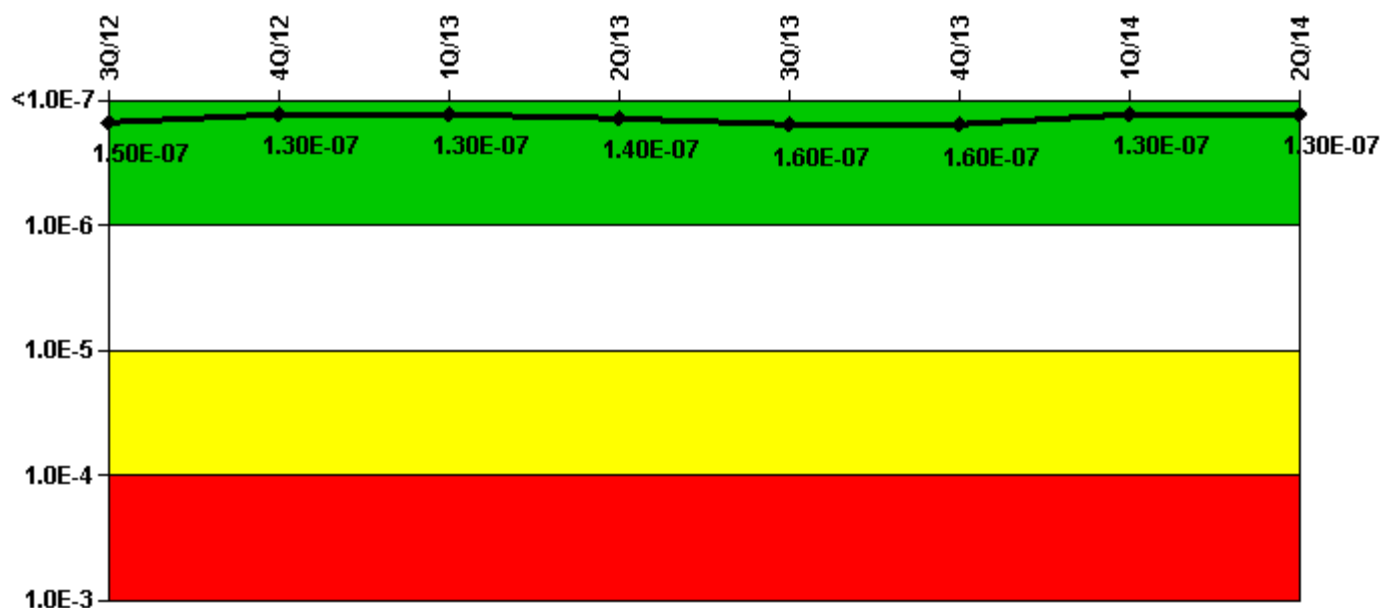
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	-2.34E-08	2.06E-09	-6.50E-09	4.86E-09	-6.13E-09	-1.14E-08	-2.73E-08	-1.08E-08
URI (ΔCDF)	-3.94E-08	-3.83E-08	-3.72E-08	-1.63E-07	-1.62E-07	-1.62E-07	-1.61E-07	-1.60E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.30E-08	-3.60E-08	-4.40E-08	-1.60E-07	-1.70E-07	-1.70E-07	-1.90E-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/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (Δ CDF)	-8.27E-08	-1.03E-07	-1.03E-07	-9.51E-08	-7.30E-08	-6.99E-08	-1.06E-07	-1.06E-07
URI (Δ CDF)	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.50E-07	1.30E-07	1.30E-07	1.40E-07	1.60E-07	1.60E-07	1.30E-07	1.30E-07

Licensee Comments:

2Q/14: Risk Cap Invoked.

1Q/14: Risk Cap Invoked.

4Q/13: Risk Cap Invoked.

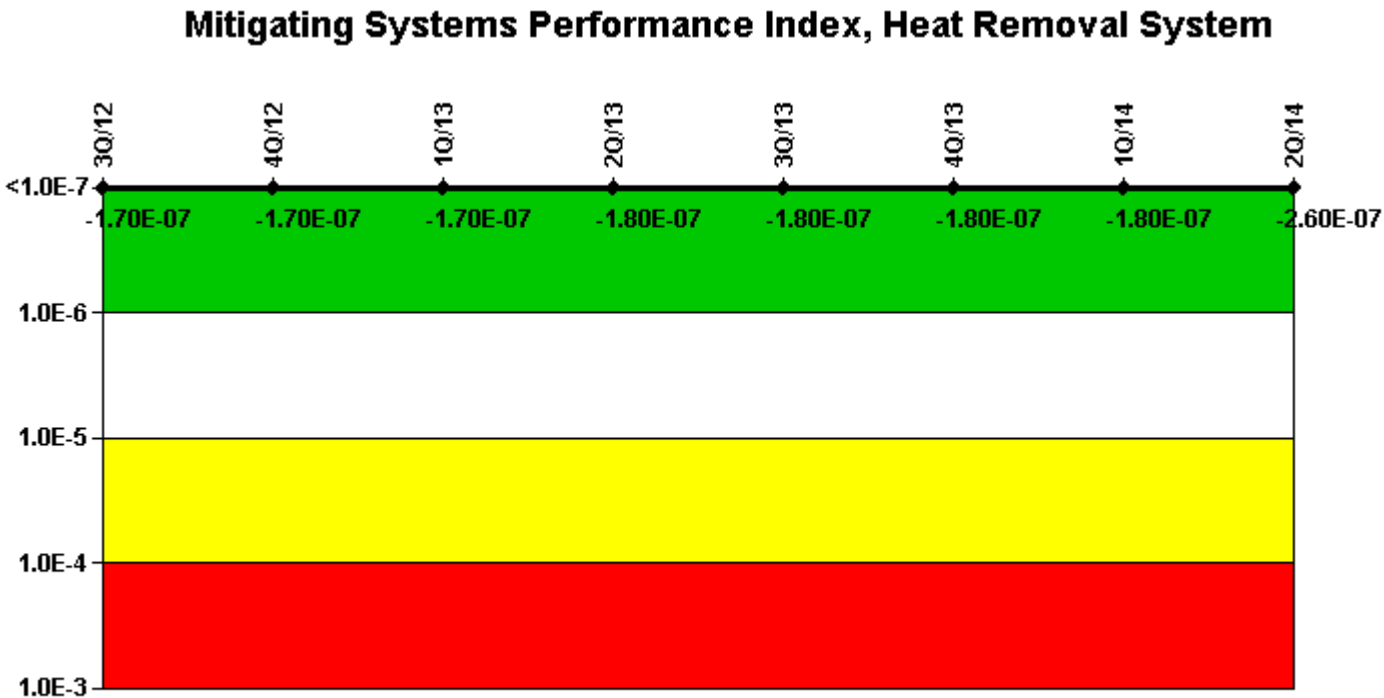
3Q/13: Risk Cap Invoked.

2Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked.

3Q/12: Risk Cap Invoked.

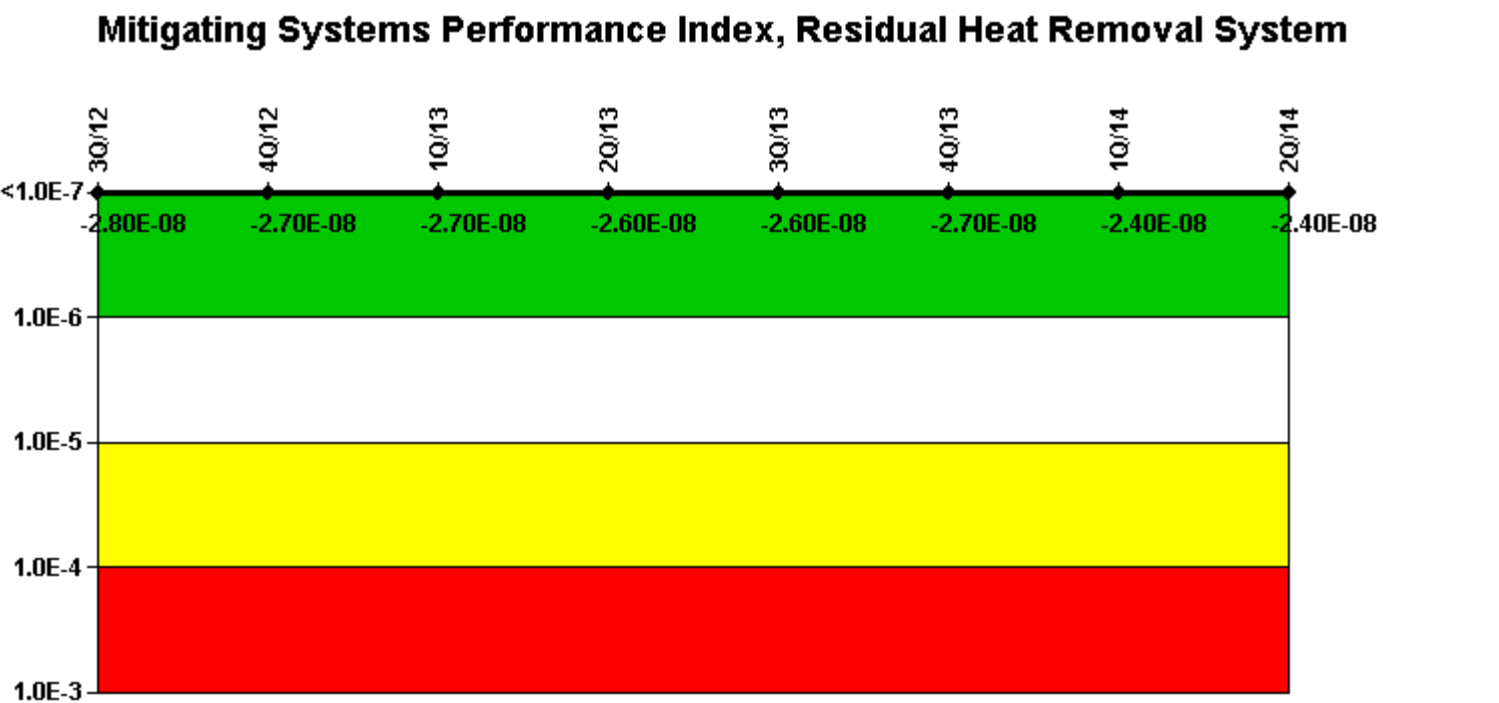


Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	3.35E-08	3.15E-08	3.26E-08	2.13E-08	2.16E-08	2.11E-08	1.60E-08	1.40E-08
URI (ΔCDF)	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.78E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	-1.70E-07	-1.70E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.80E-07	-2.60E-07

Licensee Comments: none



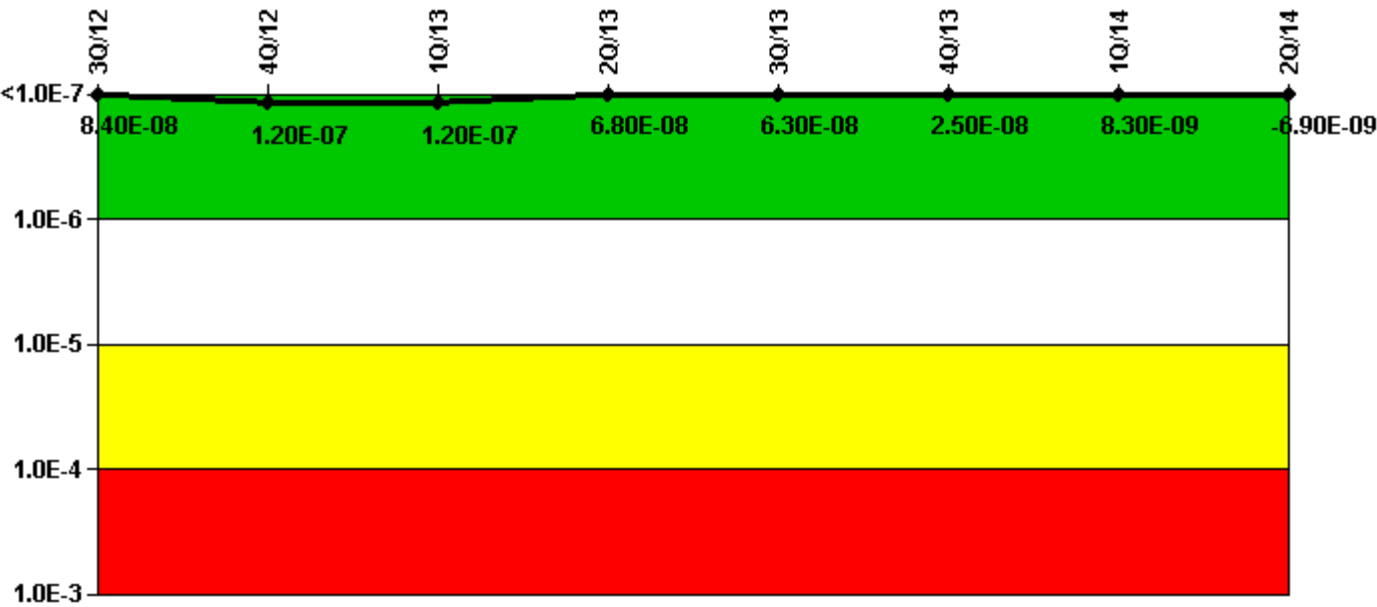
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	1.28E-08	1.29E-08	1.32E-08	1.49E-08	1.48E-08	1.36E-08	1.62E-08	1.64E-08
URI (ΔCDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.80E-08	-2.70E-08	-2.70E-08	-2.60E-08	-2.60E-08	-2.70E-08	-2.40E-08	-2.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



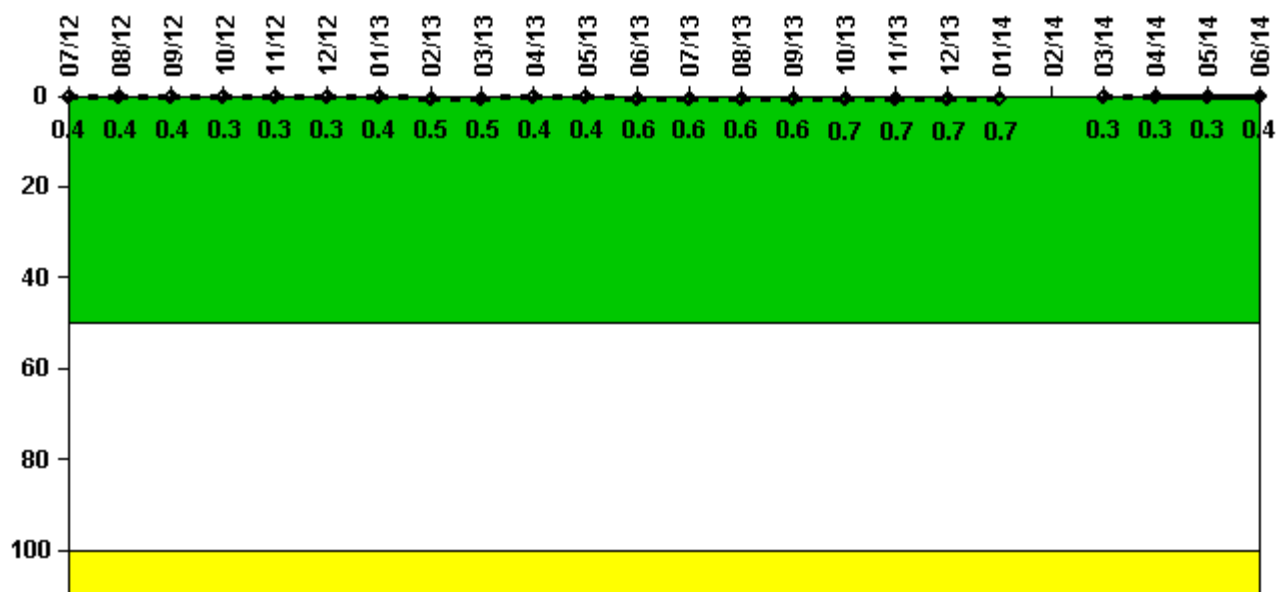
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	2.70E-07	3.07E-07	3.03E-07	2.55E-07	2.49E-07	2.12E-07	1.95E-07	1.80E-07
URI (ΔCDF)	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.40E-08	1.20E-07	1.20E-07	6.80E-08	6.30E-08	2.50E-08	8.30E-09	-6.90E-09

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

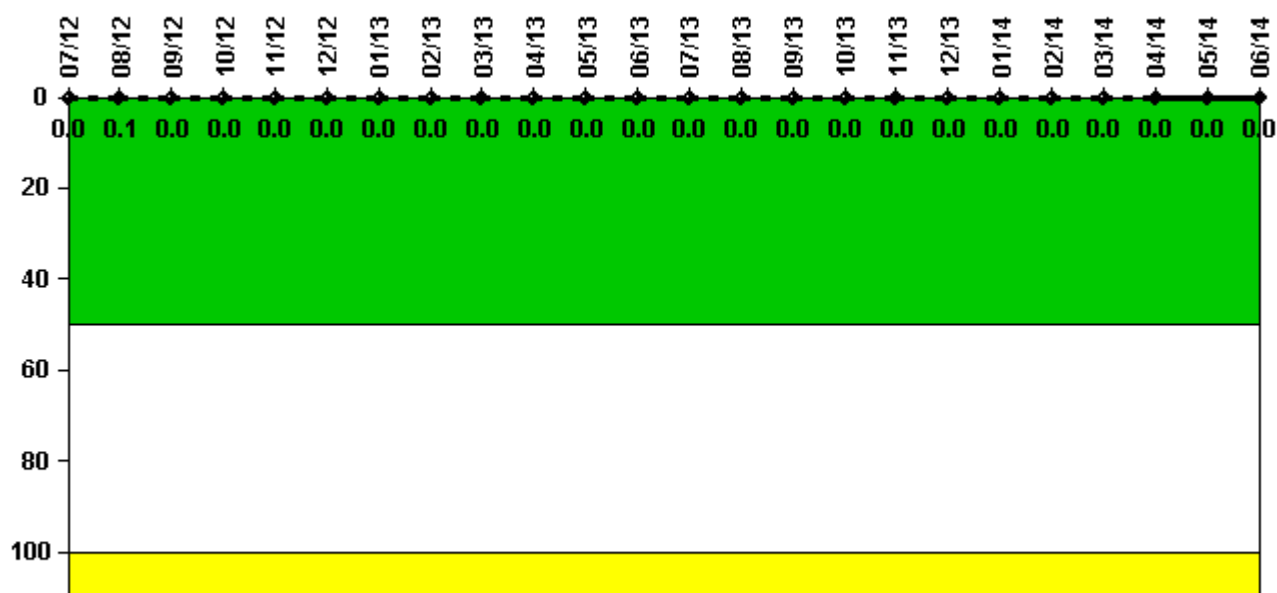
Reactor Coolant System Activity	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum activity	0.003860	0.003940	0.004060	0.003050	0.003310	0.003360	0.003630	0.004960	0.005250	0.003880	0.003880	0.005740
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.4	0.4	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.4	0.6

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	0.005850	0.006060	0.006420	0.006720	0.006680	0.007040	0.007360	N/A	0.002890	0.002970	0.003430	0.003510
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.6	0.6	0.6	0.7	0.7	0.7	0.7	N/A	0.3	0.3	0.3	0.4

Licensee Comments:

3/14: Refueling outage for Feb 2014; no sampling per INPO 04-004.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

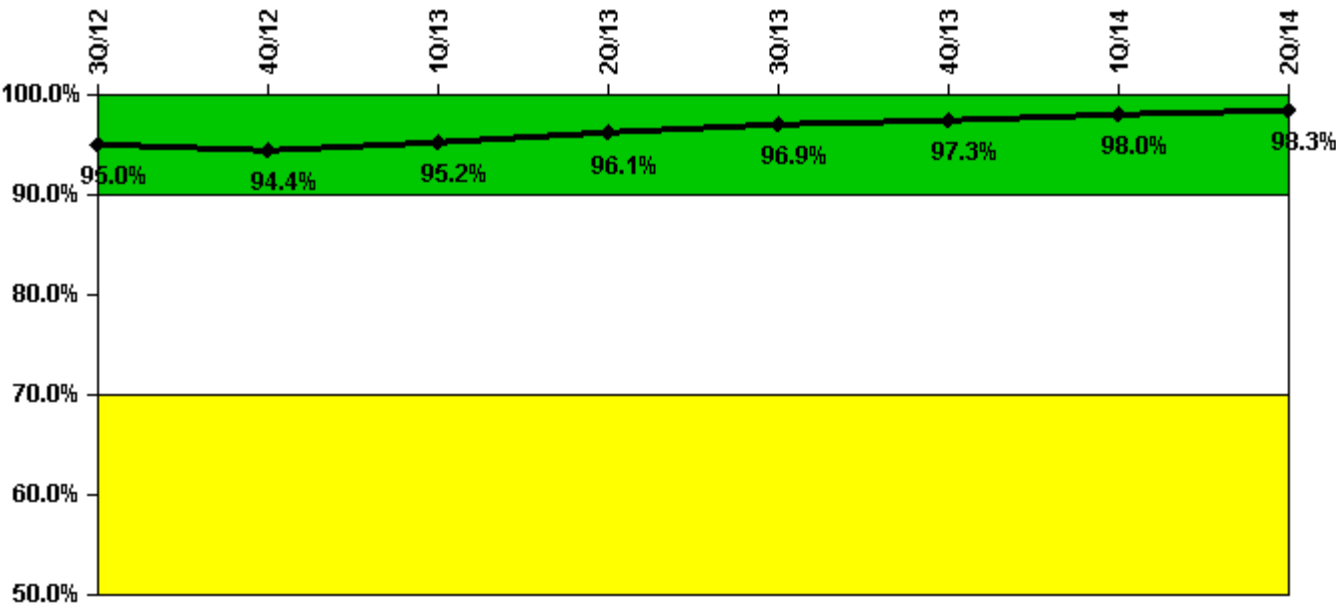
Notes

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	0.001	0.008	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0.1	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Leakage	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum leakage	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0	0	0	0	0
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



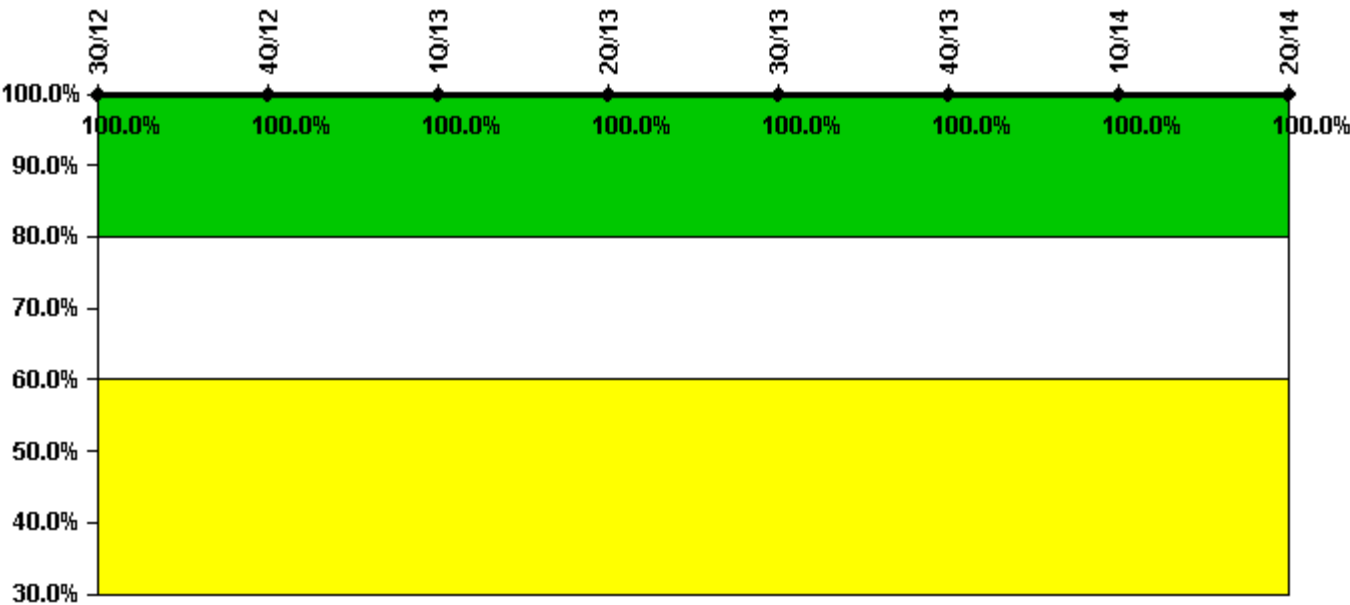
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful opportunities	35.0	30.0	68.0	95.0	82.0	44.0	32.0	66.0
Total opportunities	39.0	32.0	68.0	96.0	82.0	44.0	32.0	67.0
Indicator value	95.0%	94.4%	95.2%	96.1%	96.9%	97.3%	98.0%	98.3%

Licensee Comments: none

ERO Drill Participation



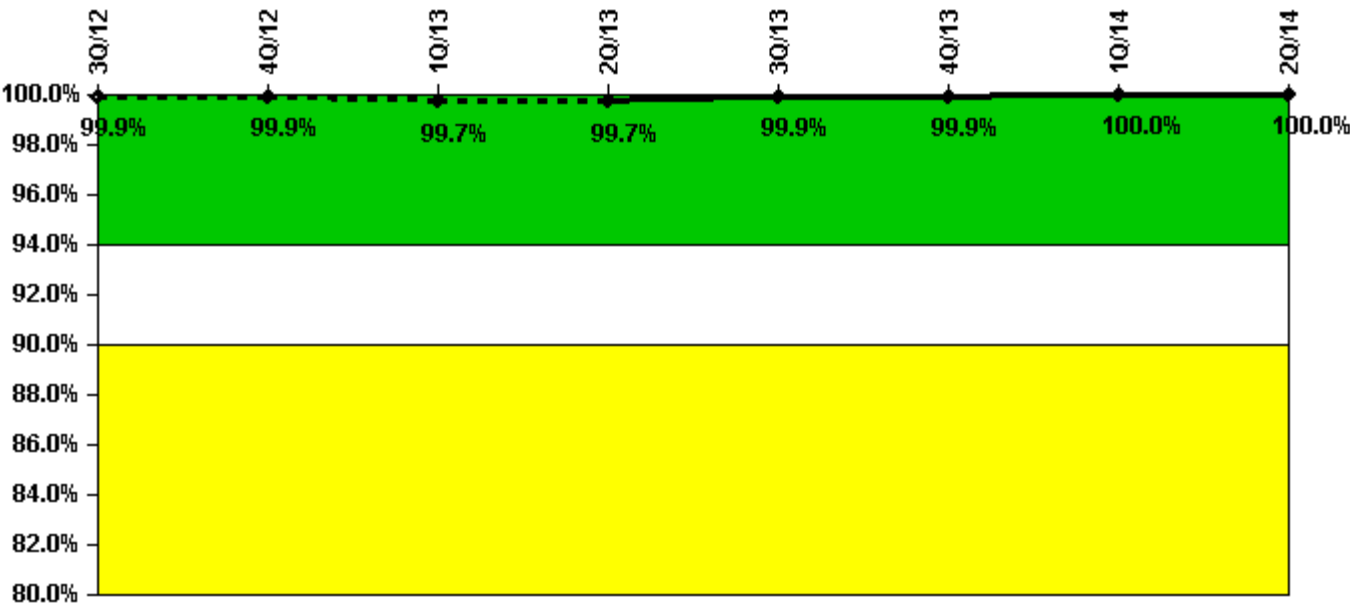
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Participating Key personnel	80.0	80.0	80.0	75.0	76.0	72.0	70.0	68.0
Total Key personnel	80.0	80.0	80.0	75.0	76.0	72.0	70.0	68.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



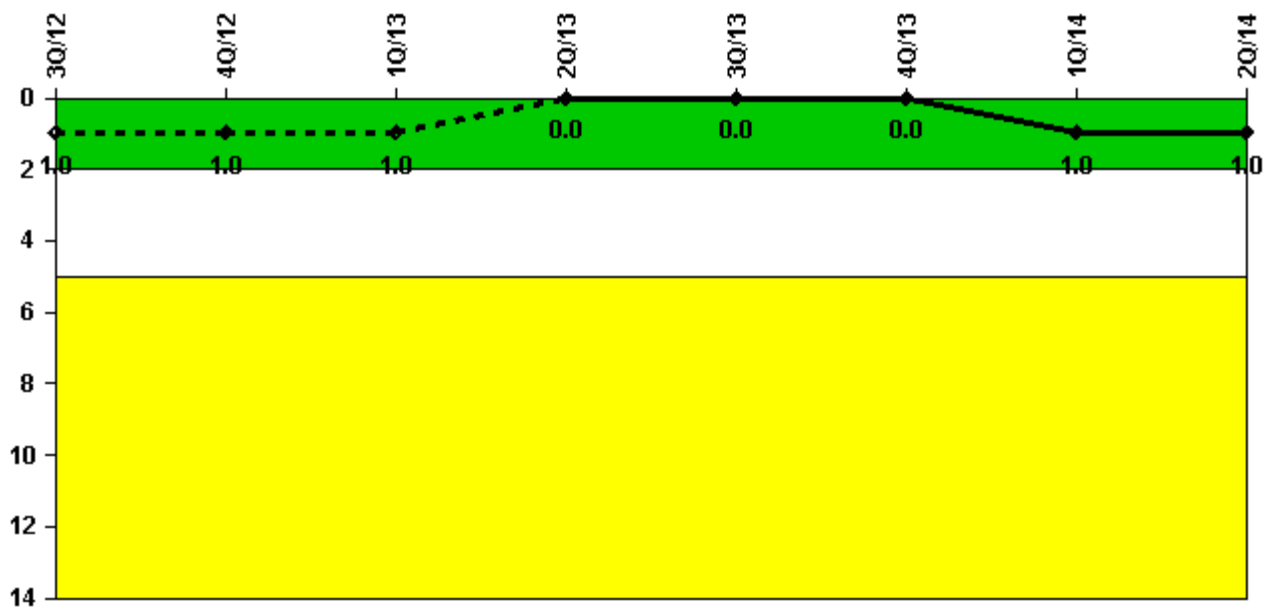
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful siren-tests	182	183	182	183	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.9%	99.9%	99.7%	99.7%	99.9%	99.9%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness

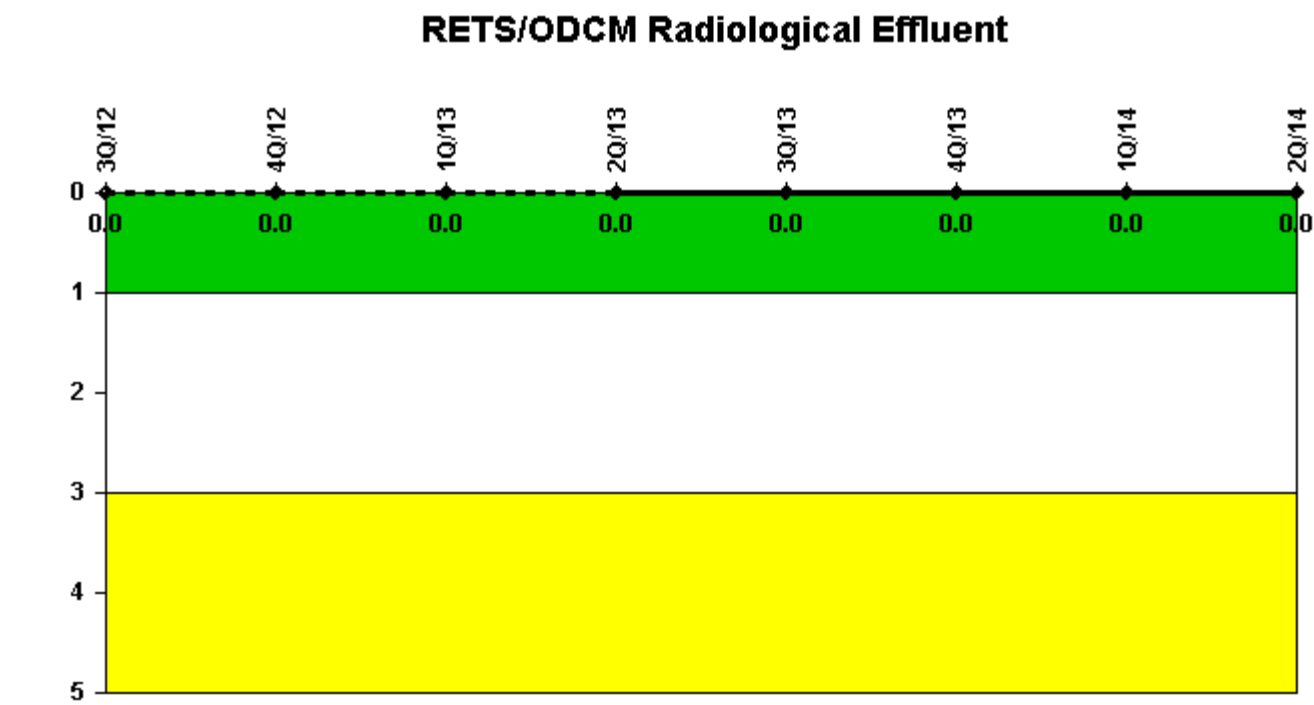


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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	1	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	1	1	0	0	0	1	1

Licensee Comments: none



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



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

Last Modified: July 31, 2014

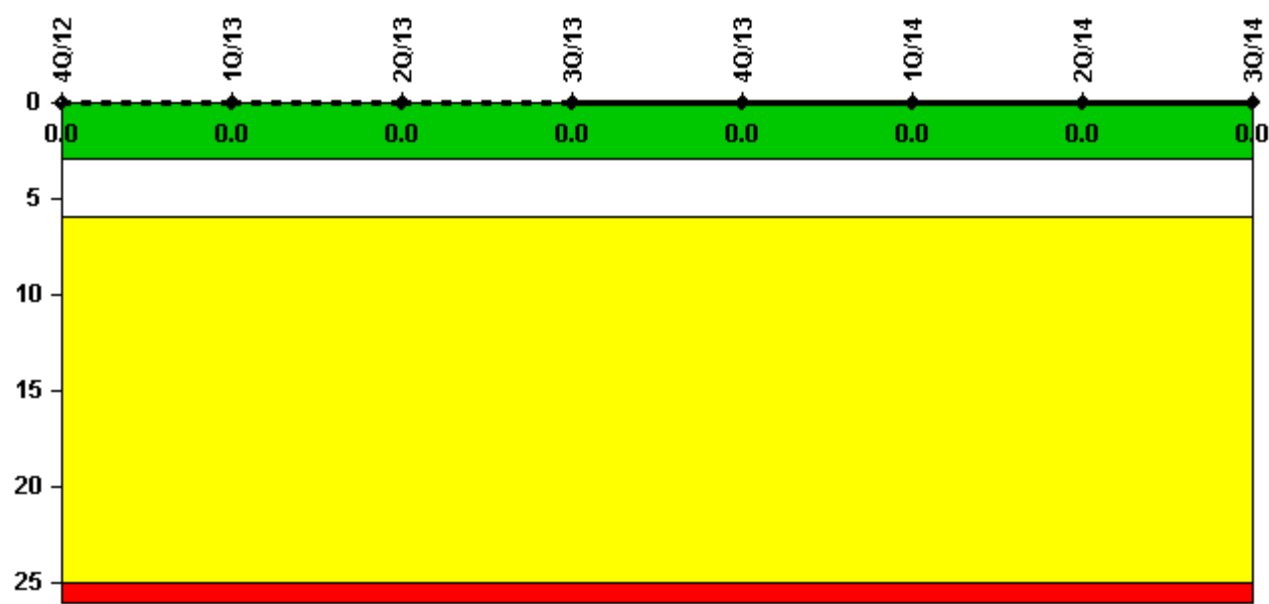
Palisades

3Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



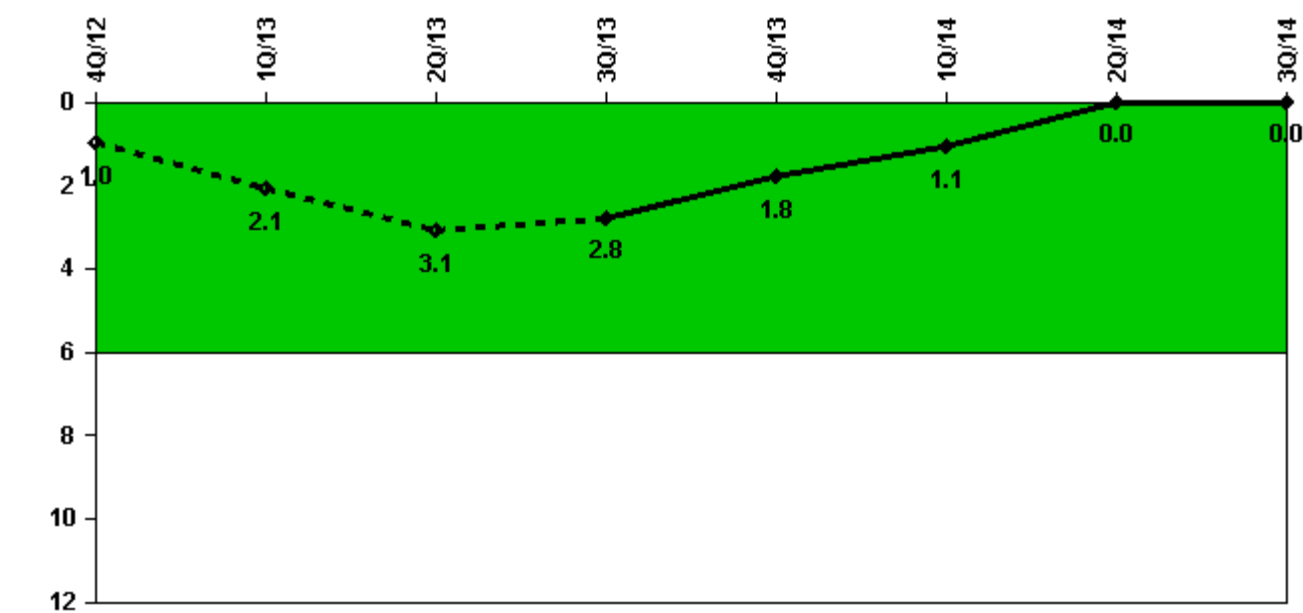
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	2151.5	2017.0	1158.4	2208.0	2209.0	839.1	2054.0	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



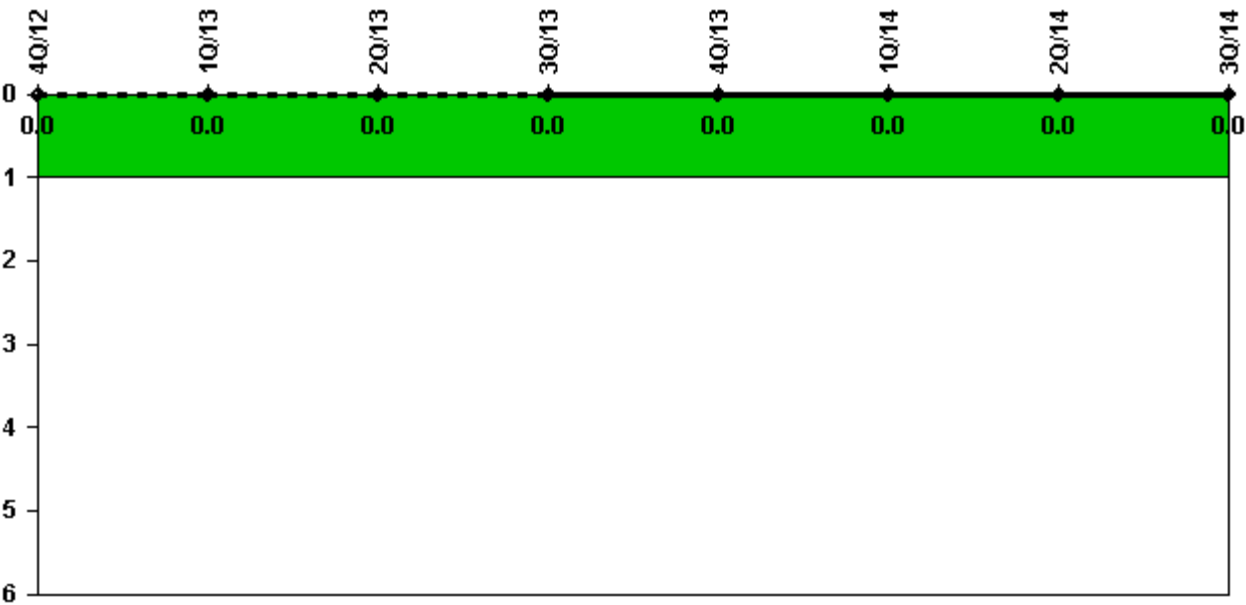
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned power changes	1.0	1.0	1.0	0	0	0	0	0
Critical hours	2151.5	2017.0	1158.4	2208.0	2209.0	839.1	2054.0	2208.0
Indicator value	1.0	2.1	3.1	2.8	1.8	1.1	0	0

Licensee Comments: none

Unplanned Scrams with Complications



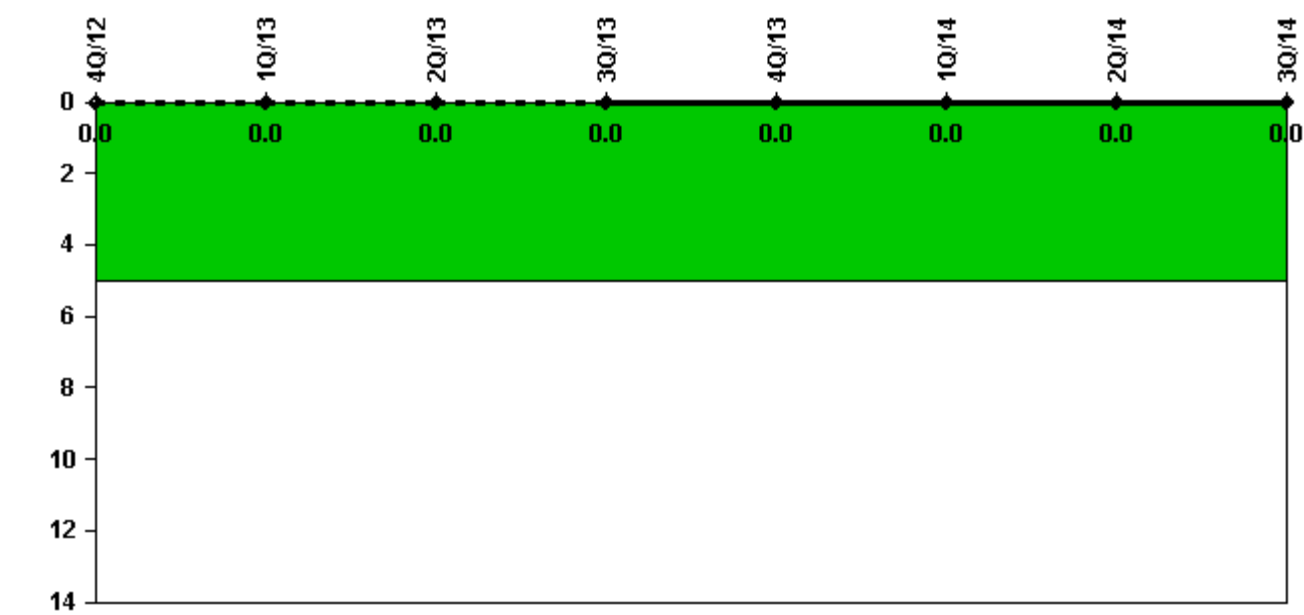
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



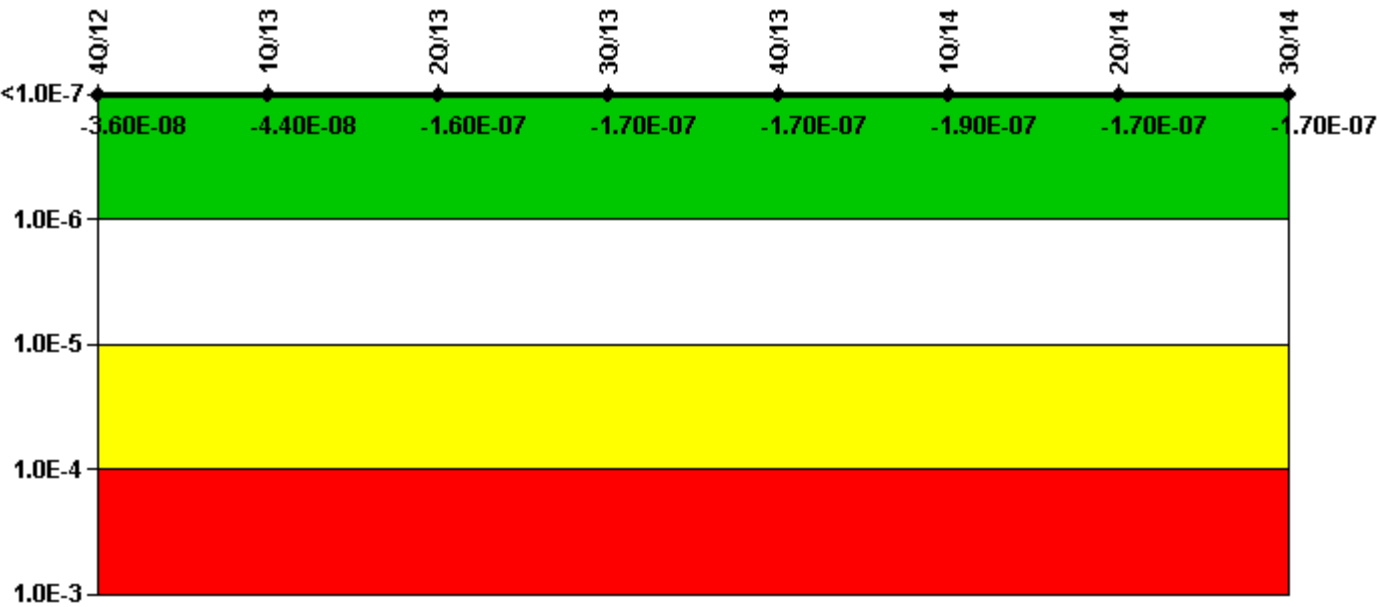
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Safety System Functional Failures	0	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



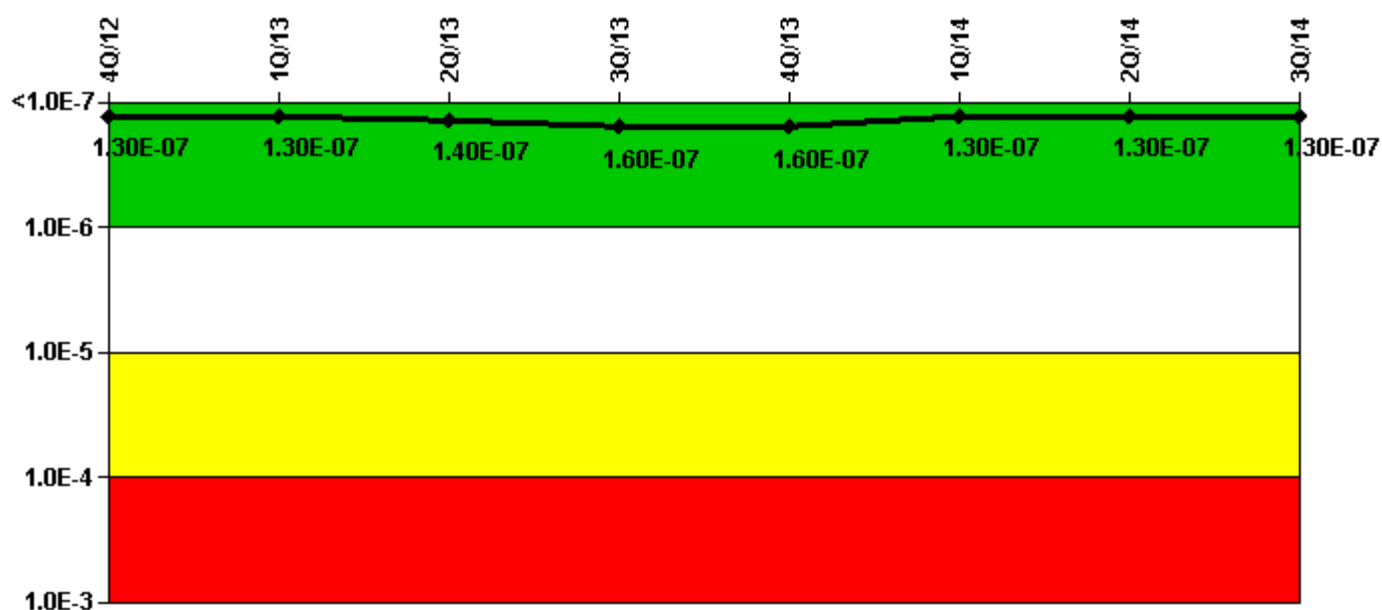
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (ΔCDF)	2.06E-09	-6.50E-09	4.86E-09	-6.13E-09	-1.14E-08	-2.73E-08	-1.08E-08	-1.24E-08
URI (ΔCDF)	-3.83E-08	-3.72E-08	-1.63E-07	-1.62E-07	-1.62E-07	-1.61E-07	-1.60E-07	-1.60E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.60E-08	-4.40E-08	-1.60E-07	-1.70E-07	-1.70E-07	-1.90E-07	-1.70E-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	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	-1.03E-07	-1.03E-07	-9.51E-08	-7.30E-08	-6.99E-08	-1.06E-07	-1.06E-07	-1.06E-07
URI (Δ CDF)	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.30E-07	1.30E-07	1.40E-07	1.60E-07	1.60E-07	1.30E-07	1.30E-07	1.30E-07

Licensee Comments:

3Q/14: Risk Cap Invoked.

2Q/14: Risk Cap Invoked.

1Q/14: Risk Cap Invoked.

4Q/13: Risk Cap Invoked.

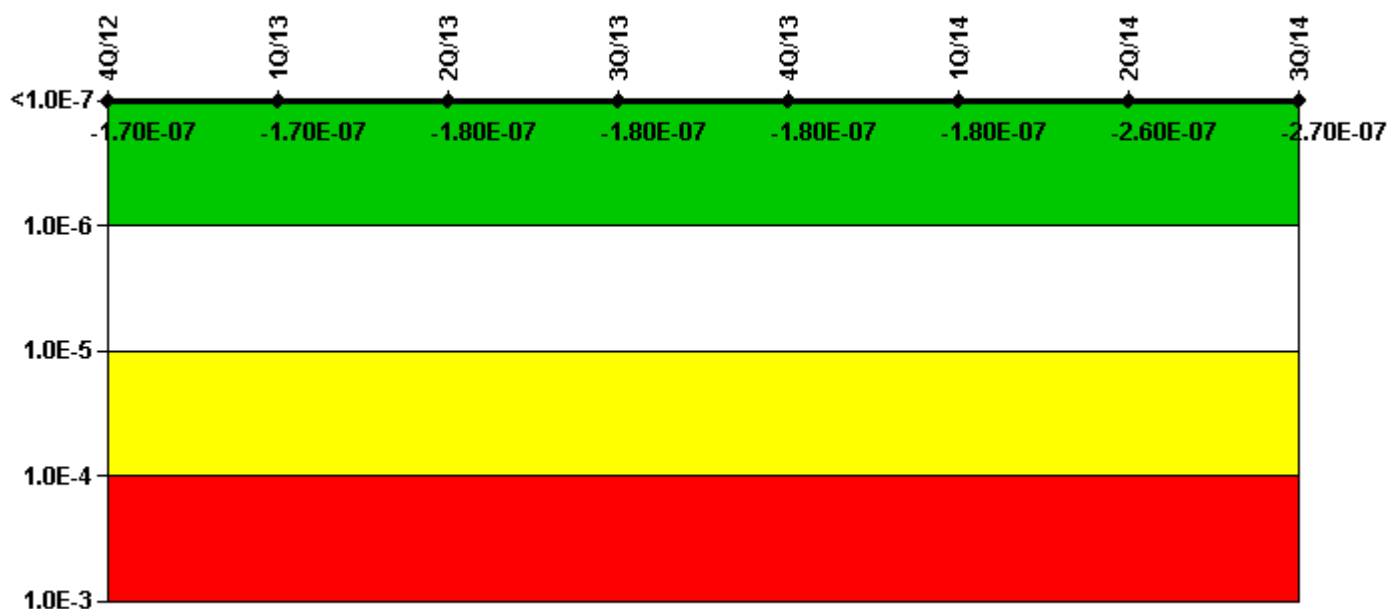
3Q/13: Risk Cap Invoked.

2Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

4Q/12: Risk Cap Invoked.

Mitigating Systems Performance Index, Heat Removal System

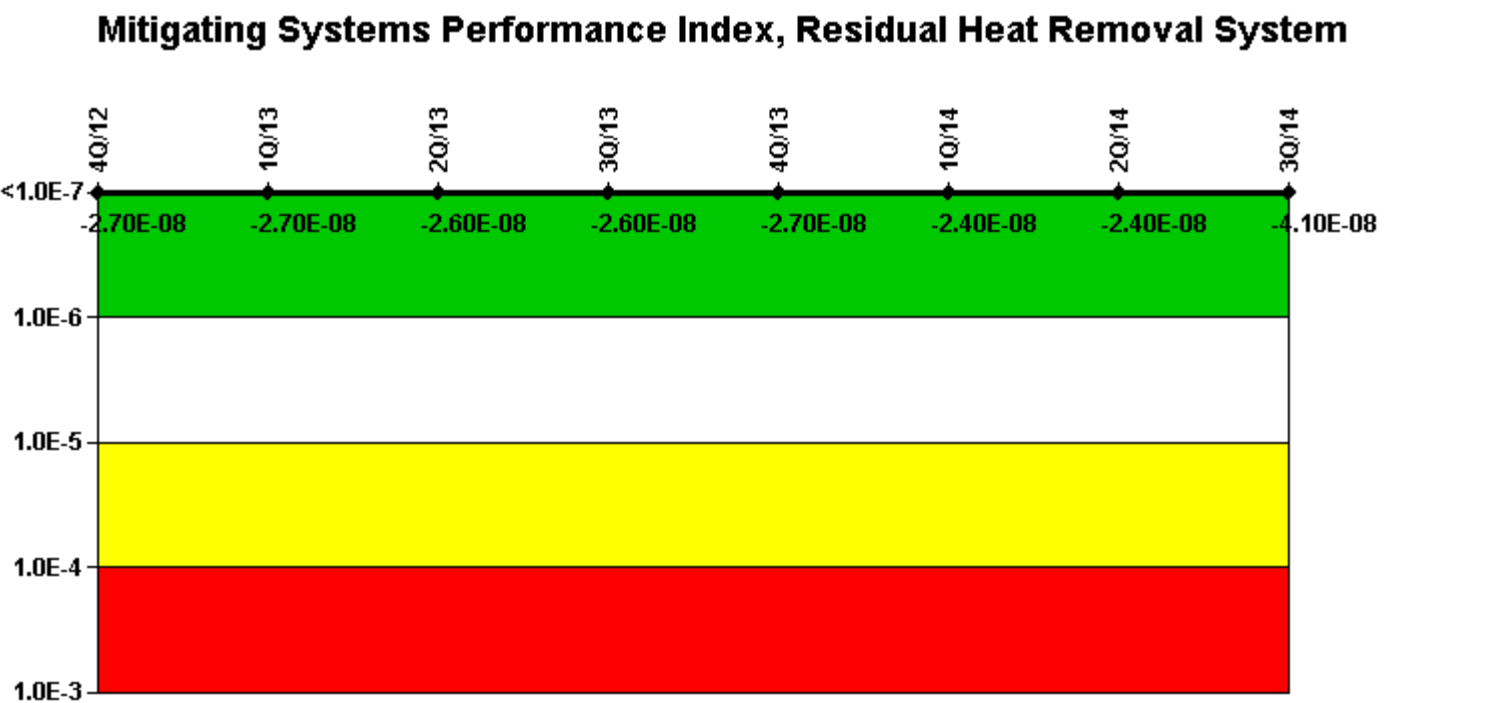


Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	3.15E-08	3.26E-08	2.13E-08	2.16E-08	2.11E-08	1.60E-08	1.40E-08	1.19E-08
URI (Δ CDF)	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.78E-07	-2.77E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	-1.70E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.80E-07	-2.60E-07	-2.70E-07

Licensee Comments: none



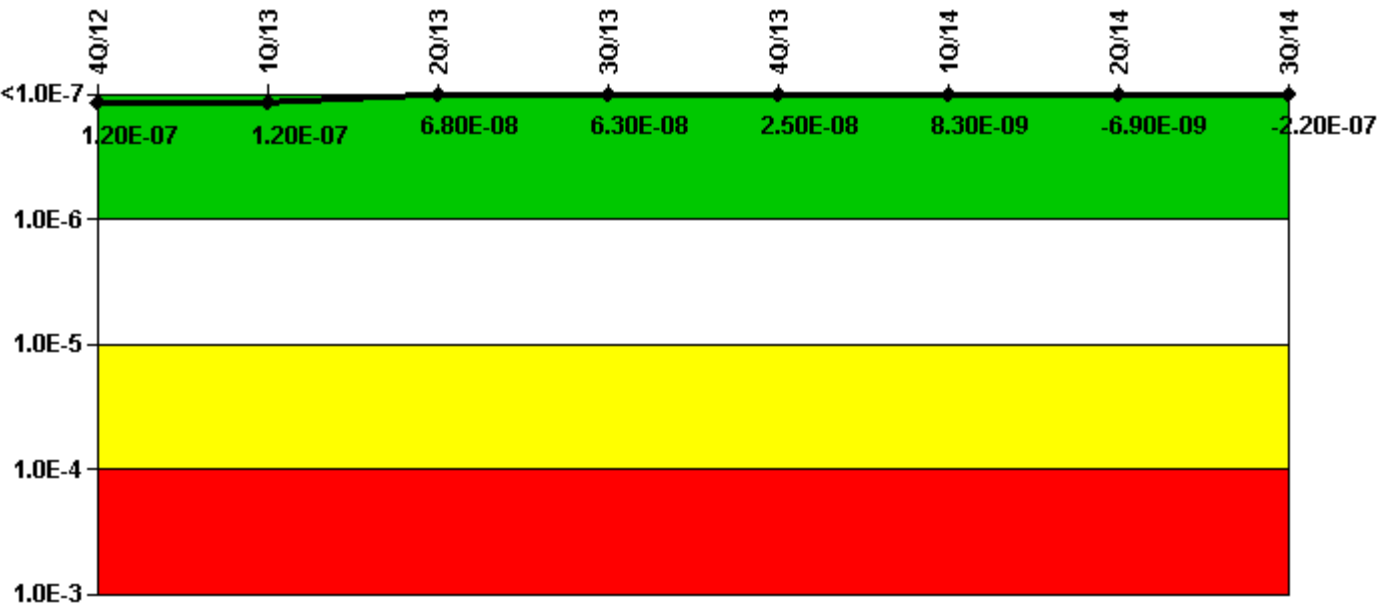
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (ΔCDF)	1.29E-08	1.32E-08	1.49E-08	1.48E-08	1.36E-08	1.62E-08	1.64E-08	-2.90E-10
URI (ΔCDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.70E-08	-2.70E-08	-2.60E-08	-2.60E-08	-2.70E-08	-2.40E-08	-2.40E-08	-4.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



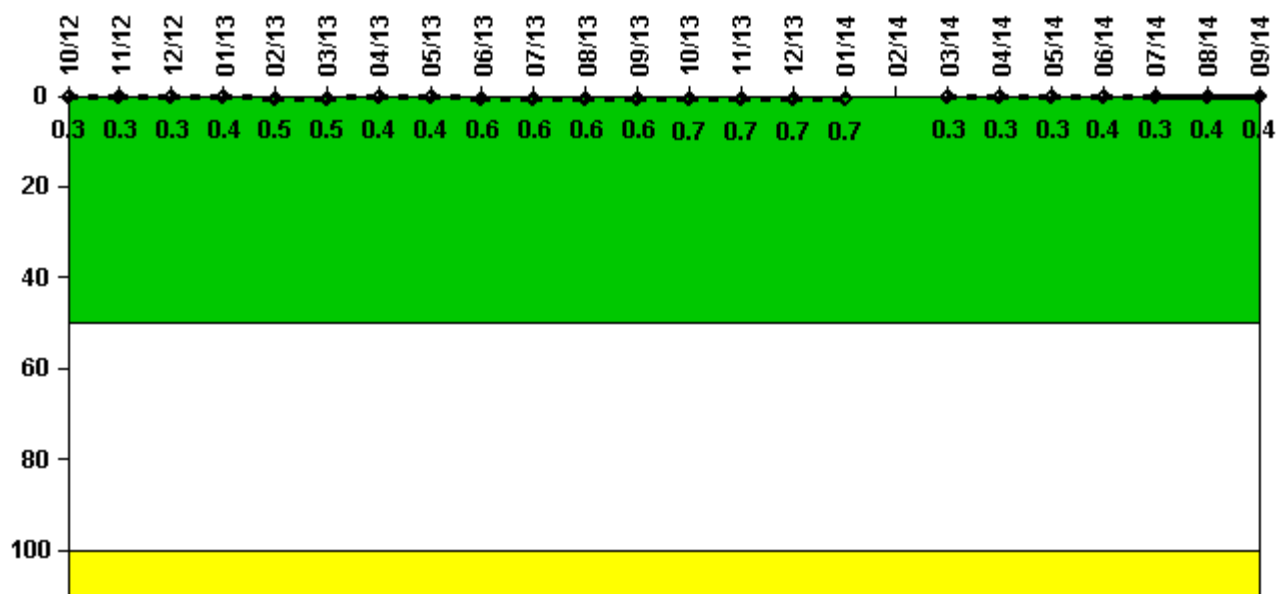
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (ΔCDF)	3.07E-07	3.03E-07	2.55E-07	2.49E-07	2.12E-07	1.95E-07	1.80E-07	1.47E-08
URI (ΔCDF)	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-2.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.20E-07	1.20E-07	6.80E-08	6.30E-08	2.50E-08	8.30E-09	-6.90E-09	-2.20E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

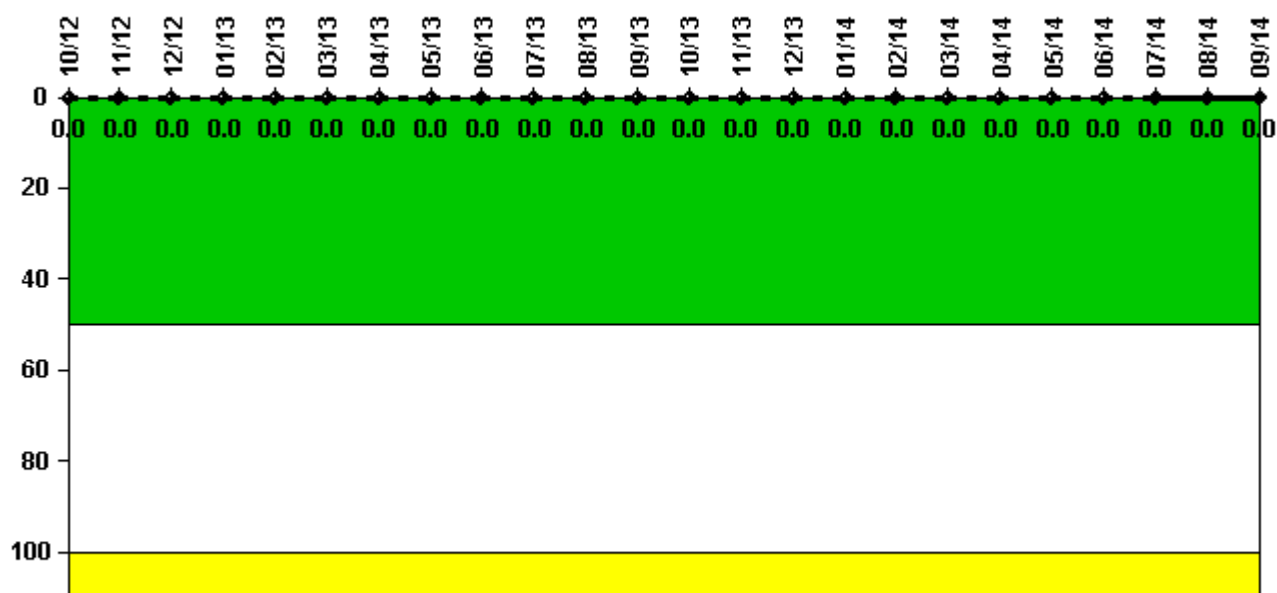
Notes

Reactor Coolant System Activity	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum activity	0.003050	0.003310	0.003360	0.003630	0.004960	0.005250	0.003880	0.003880	0.005740	0.005850	0.006060	0.006420
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.3	0.3	0.3	0.4	0.5	0.5	0.4	0.4	0.6	0.6	0.6	0.6
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	0.006720	0.006680	0.007040	0.007360	N/A	0.002890	0.002970	0.003430	0.003510	0.003460	0.004060	0.004240
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.7	0.7	0.7	0.7	N/A	0.3	0.3	0.3	0.4	0.3	0.4	0.4

Licensee Comments:

3/14: Refueling outage for Feb 2014; no sampling per INPO 04-004.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

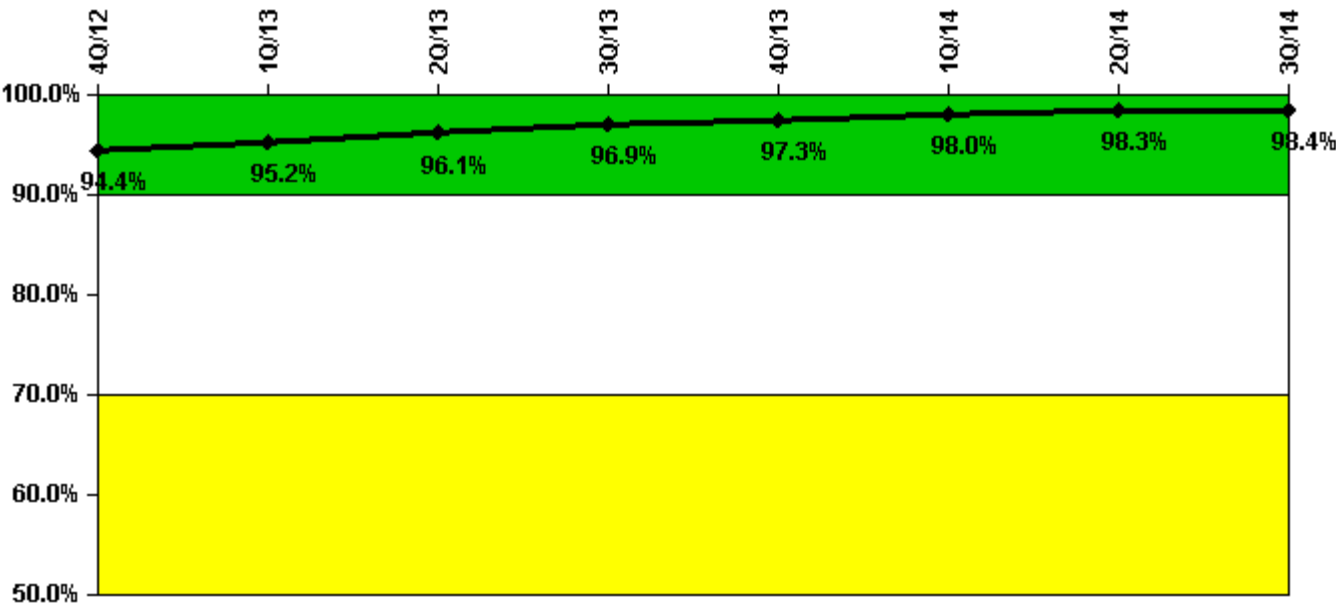
Notes

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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Leakage	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum leakage	0.001	0.001	0.001	0.001	0	0	0	0	0	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



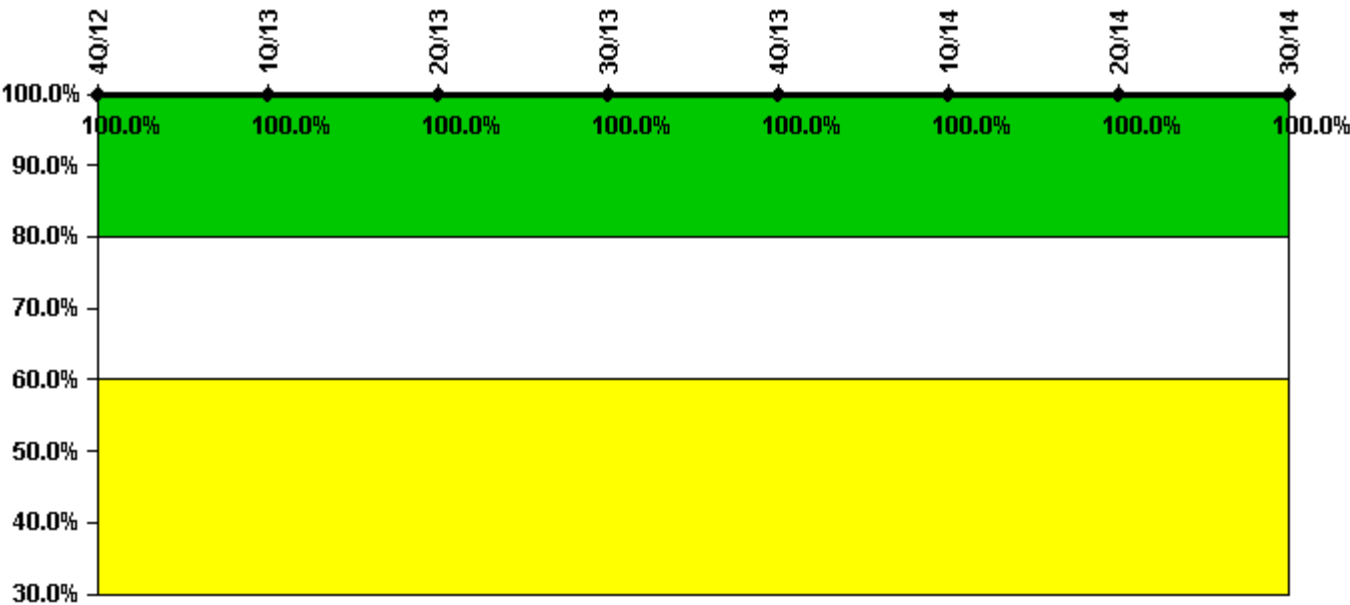
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful opportunities	30.0	68.0	95.0	82.0	44.0	32.0	66.0	19.0
Total opportunities	32.0	68.0	96.0	82.0	44.0	32.0	67.0	22.0
Indicator value	94.4%	95.2%	96.1%	96.9%	97.3%	98.0%	98.3%	98.4%

Licensee Comments: none

ERO Drill Participation



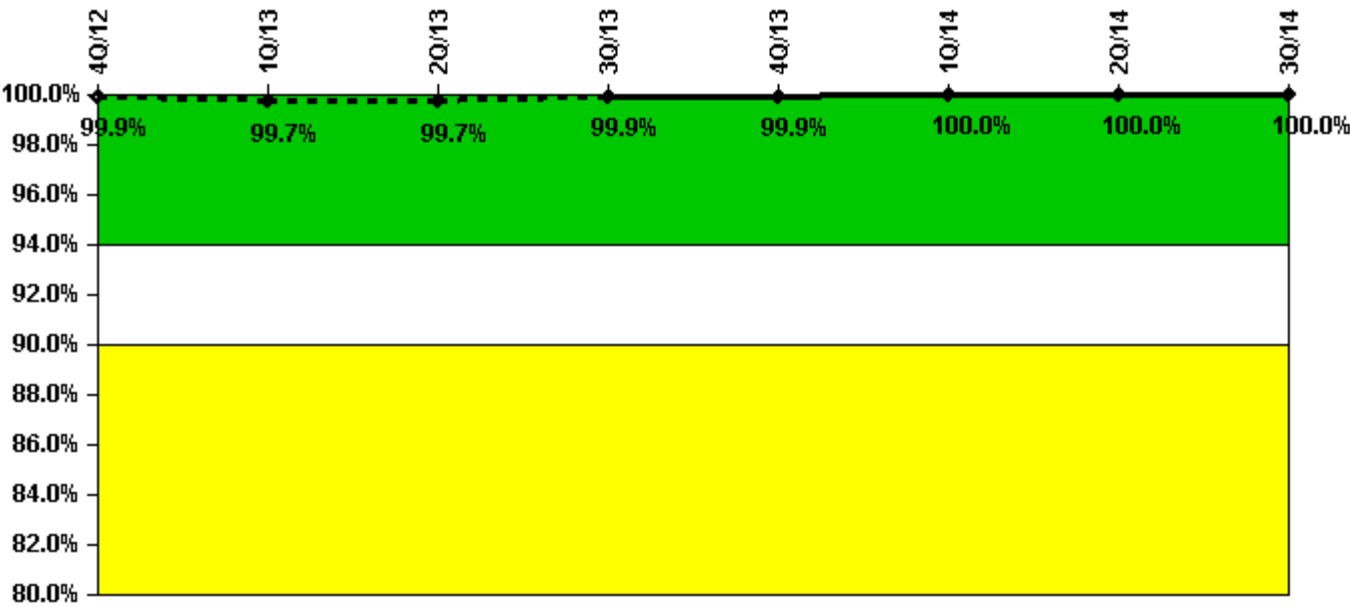
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Participating Key personnel	80.0	80.0	75.0	76.0	72.0	70.0	68.0	62.0
Total Key personnel	80.0	80.0	75.0	76.0	72.0	70.0	68.0	62.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



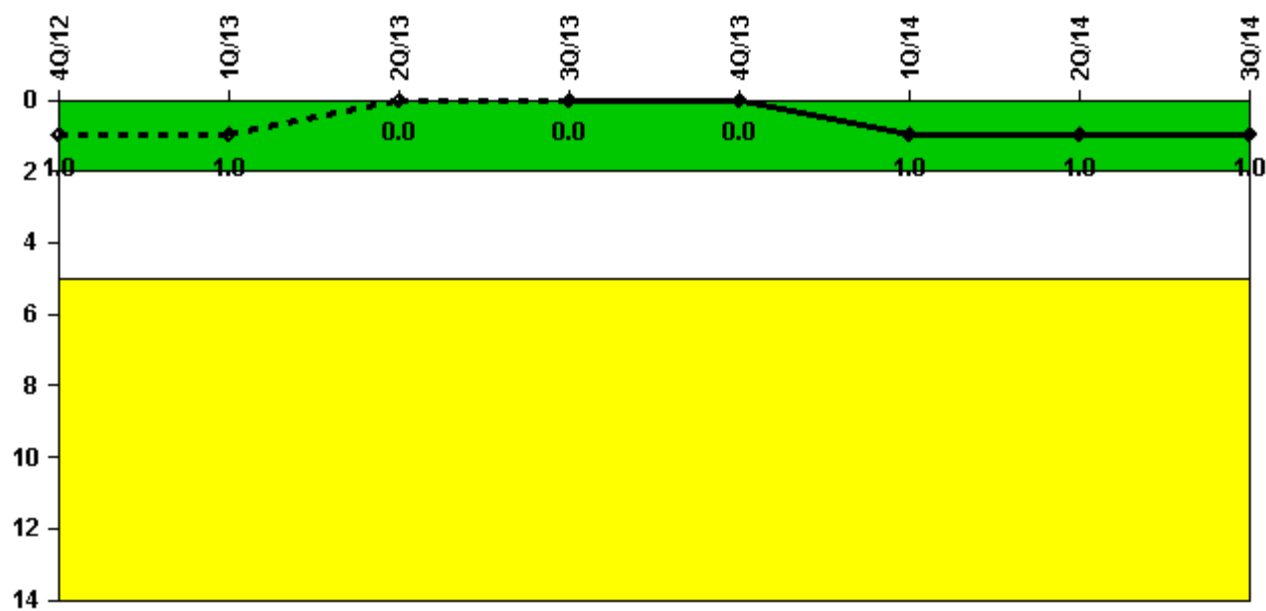
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful siren-tests	183	182	183	183	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.9%	99.7%	99.7%	99.9%	99.9%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness

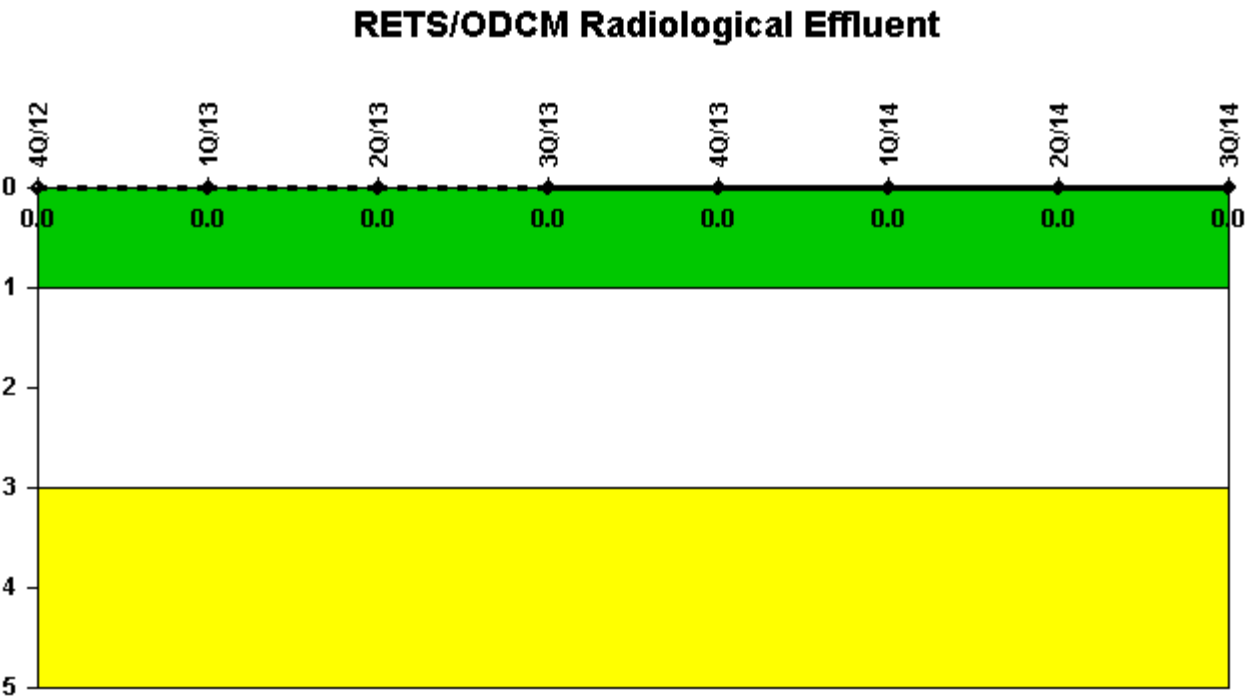


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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	1	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	1	0	0	0	1	1	1

Licensee Comments: none



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



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

Last Modified: November 3, 2014

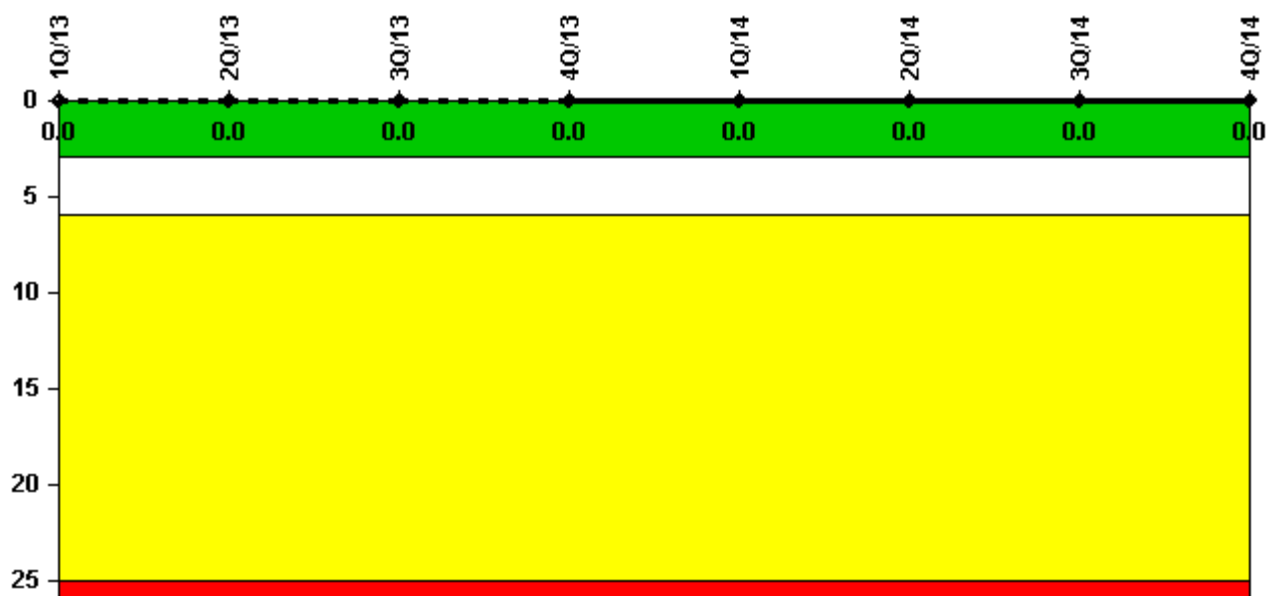
Palisades

4Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



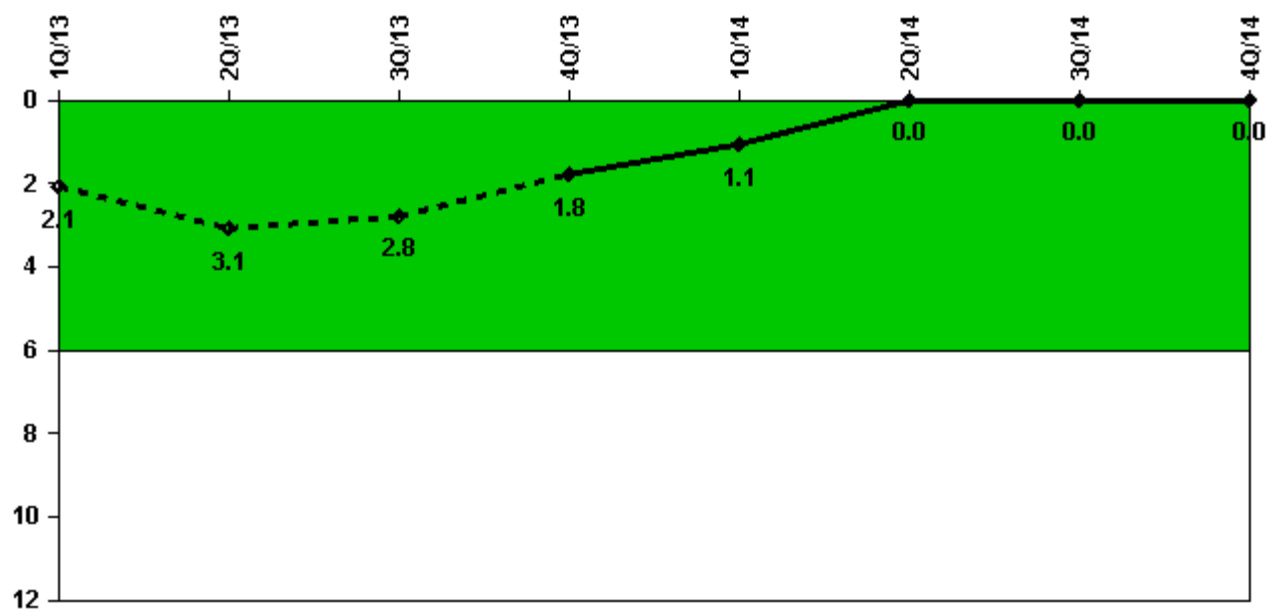
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2017.0	1158.4	2208.0	2209.0	839.1	2054.0	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



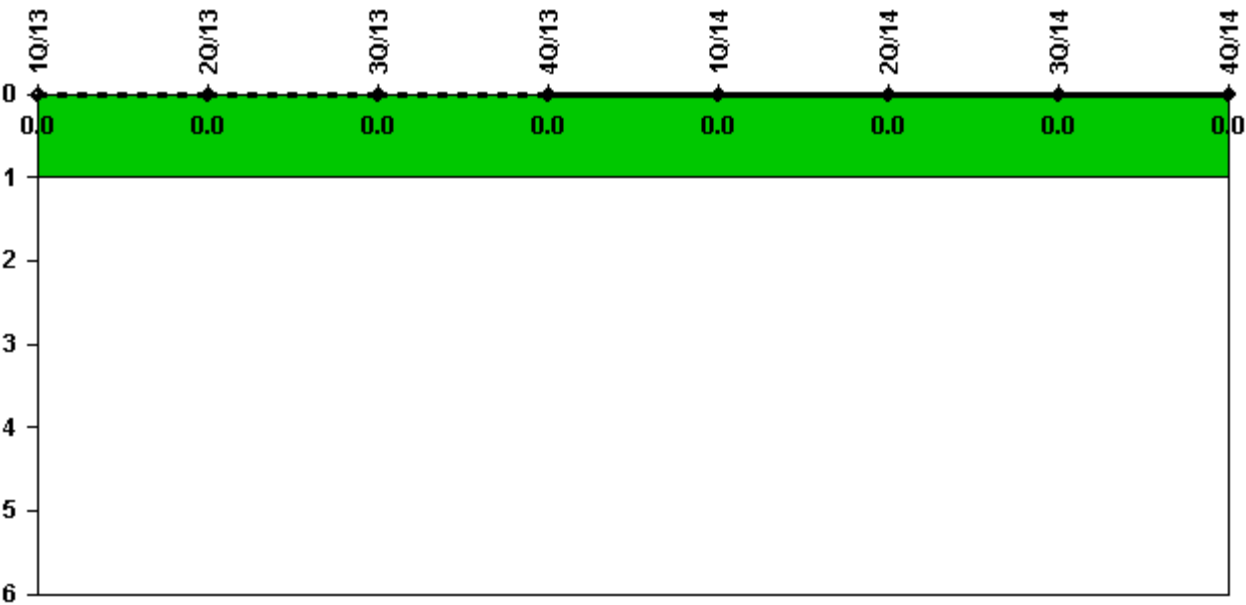
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned power changes	1.0	1.0	0	0	0	0	0	0
Critical hours	2017.0	1158.4	2208.0	2209.0	839.1	2054.0	2208.0	2209.0
Indicator value	2.1	3.1	2.8	1.8	1.1	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



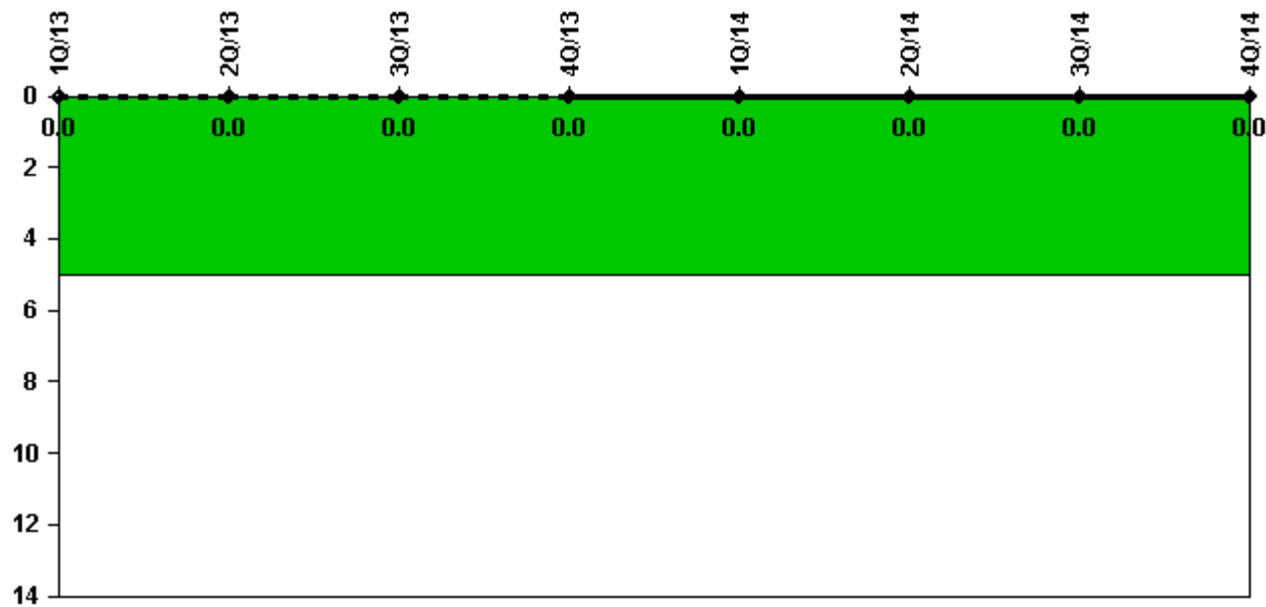
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



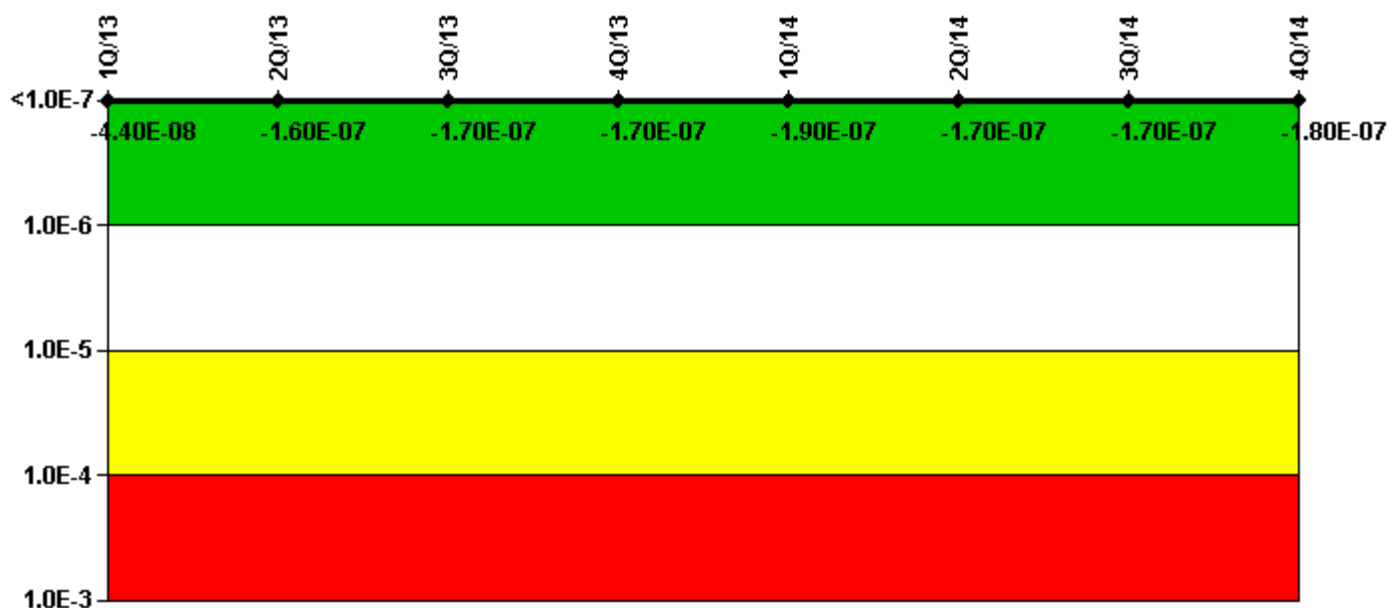
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Safety System Functional Failures	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



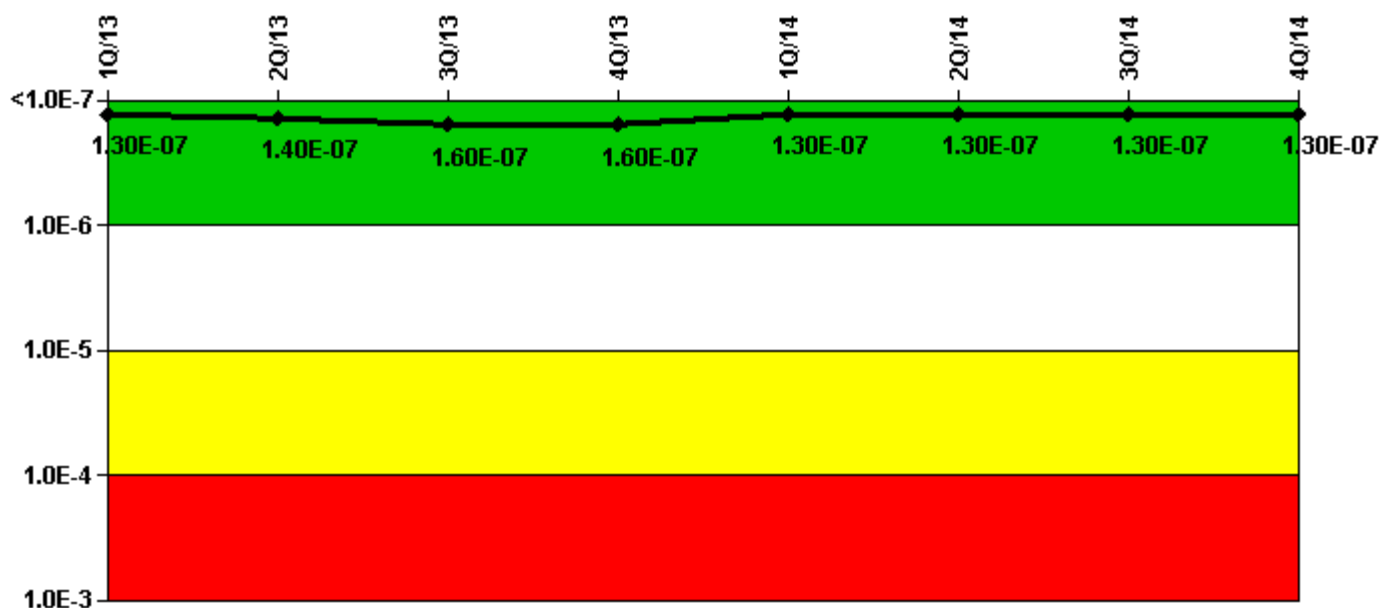
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	-6.50E-09	4.86E-09	-6.13E-09	-1.14E-08	-2.73E-08	-1.08E-08	-1.24E-08	-1.75E-08
URI (Δ CDF)	-3.72E-08	-1.63E-07	-1.62E-07	-1.62E-07	-1.61E-07	-1.60E-07	-1.60E-07	-1.59E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.40E-08	-1.60E-07	-1.70E-07	-1.70E-07	-1.90E-07	-1.70E-07	-1.70E-07	-1.80E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	-1.03E-07	-9.51E-08	-7.30E-08	-6.99E-08	-1.06E-07	-1.06E-07	-1.06E-07	-1.06E-07
URI (Δ CDF)	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.30E-07	1.40E-07	1.60E-07	1.60E-07	1.30E-07	1.30E-07	1.30E-07	1.30E-07

Licensee Comments:

4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked.

2Q/14: Risk Cap Invoked.

1Q/14: Risk Cap Invoked.

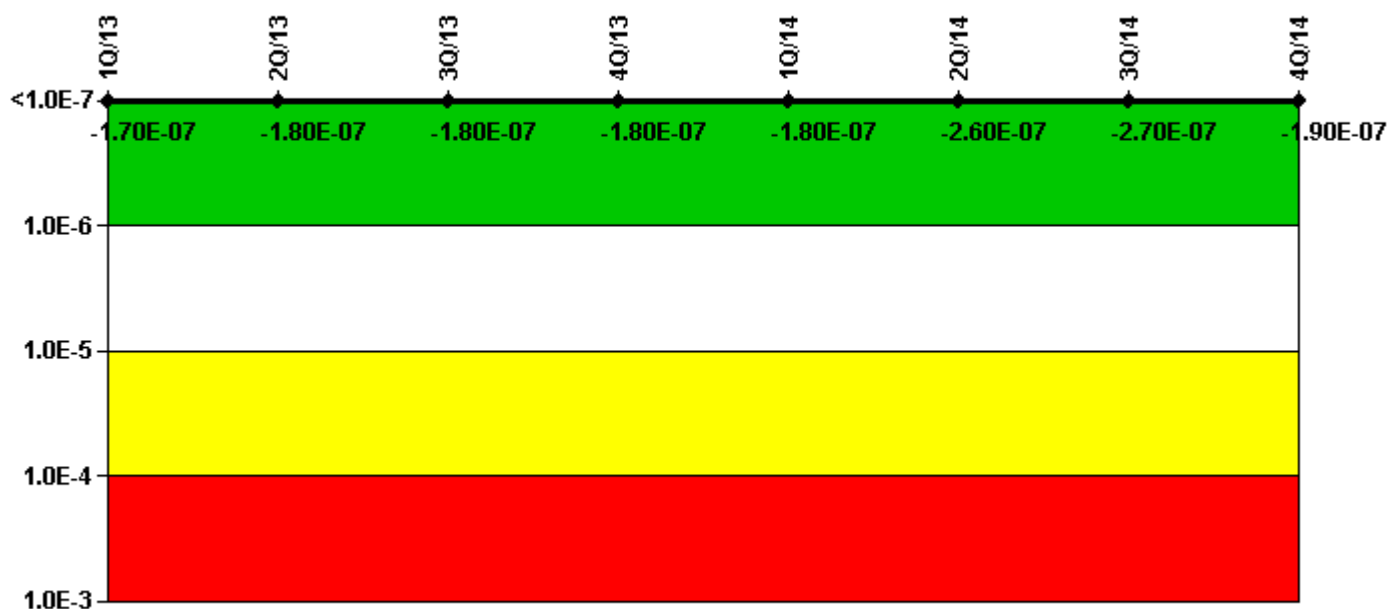
4Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

2Q/13: Risk Cap Invoked.

1Q/13: Risk Cap Invoked.

Mitigating Systems Performance Index, Heat Removal System



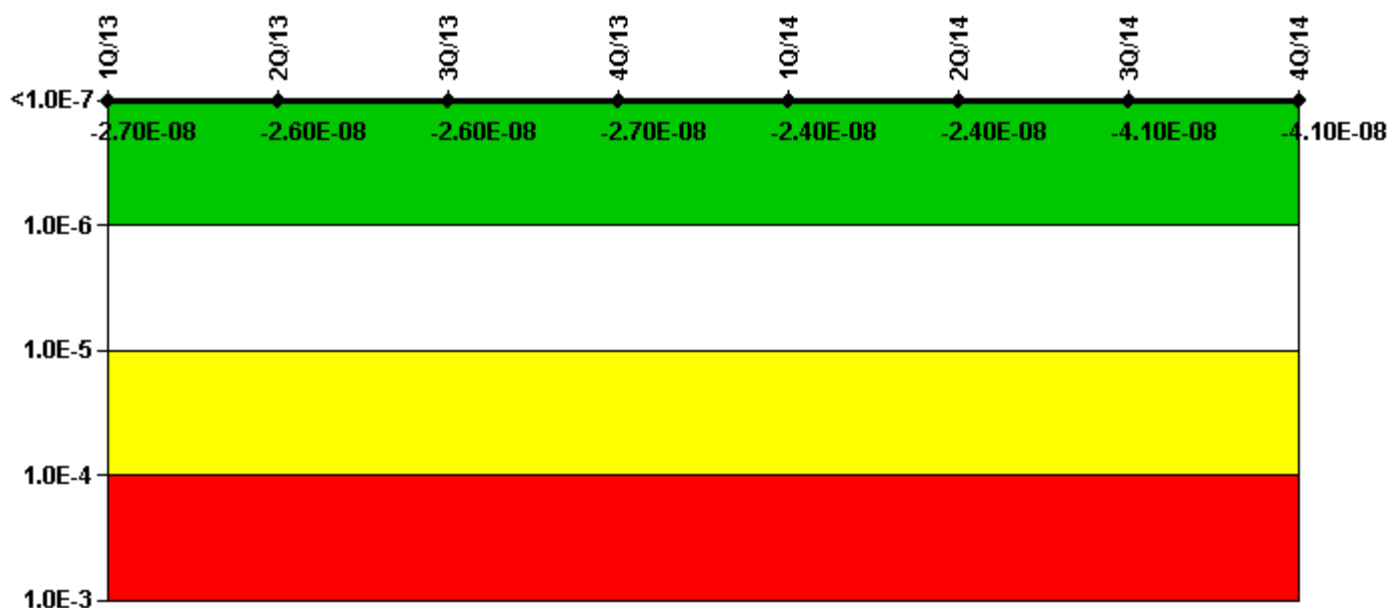
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	3.26E-08	2.13E-08	2.16E-08	2.11E-08	1.60E-08	1.40E-08	1.19E-08	1.37E-08
URI (Δ CDF)	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.78E-07	-2.77E-07	-2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.80E-07	-2.60E-07	-2.70E-07	-1.90E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



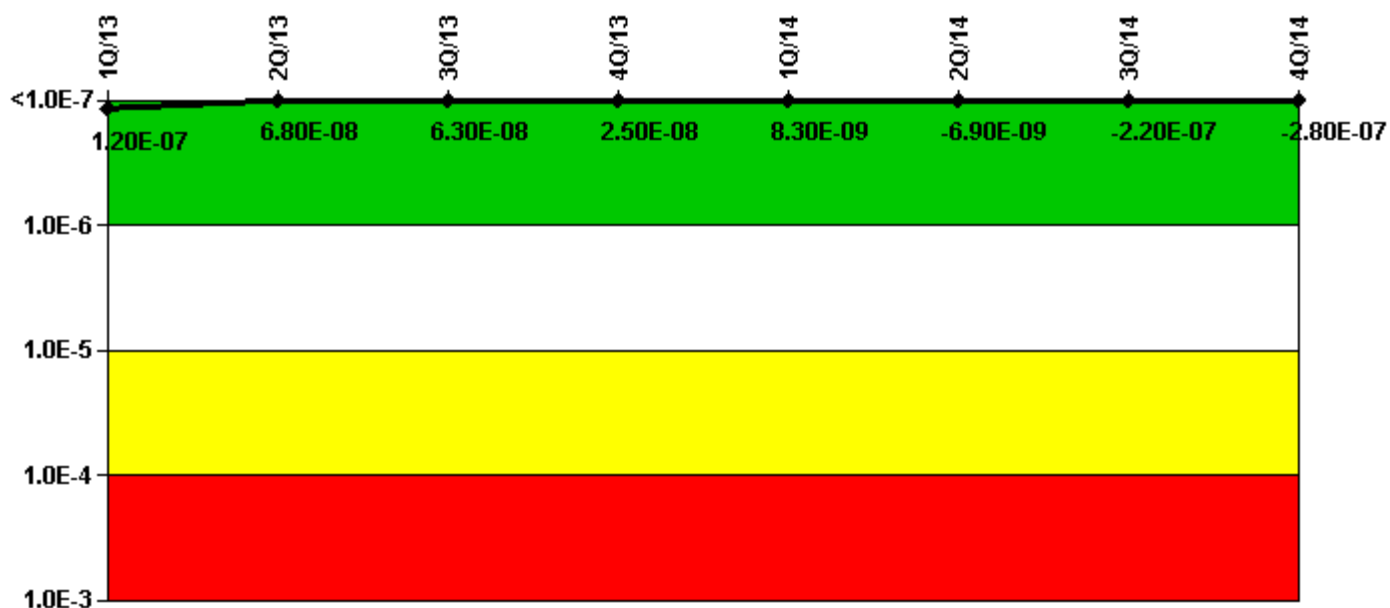
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	1.32E-08	1.49E-08	1.48E-08	1.36E-08	1.62E-08	1.64E-08	-2.90E-10	-2.90E-10
URI (Δ CDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.70E-08	-2.60E-08	-2.60E-08	-2.70E-08	-2.40E-08	-2.40E-08	-4.10E-08	-4.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



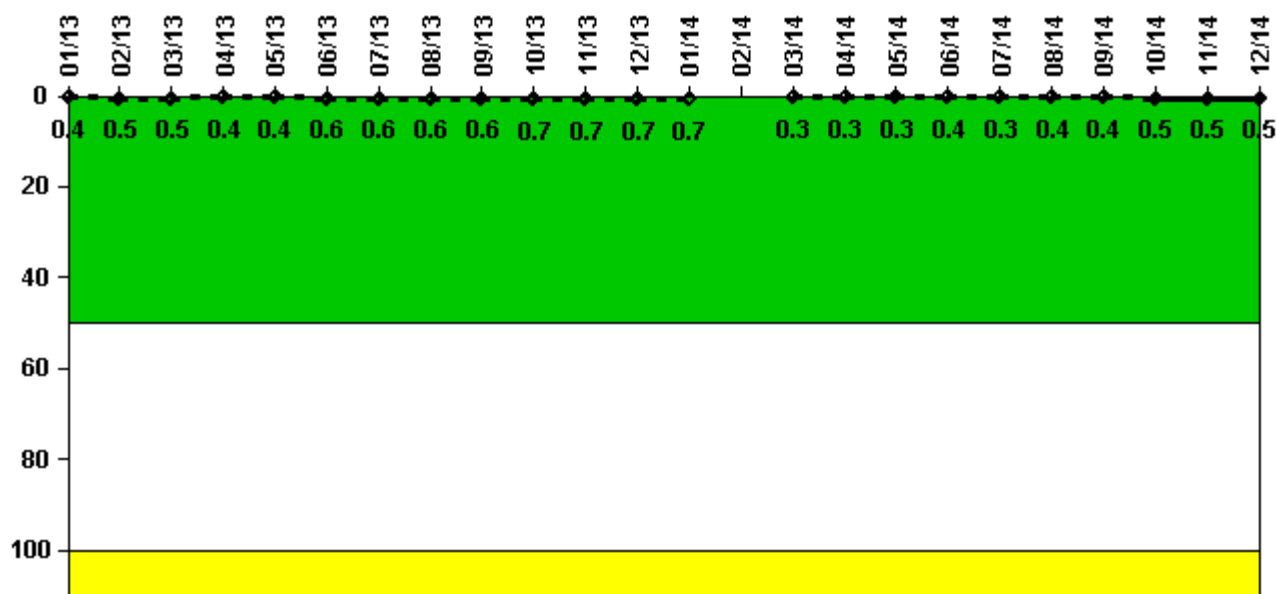
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	3.03E-07	2.55E-07	2.49E-07	2.12E-07	1.95E-07	1.80E-07	1.47E-08	-5.15E-08
URI (Δ CDF)	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-2.31E-07	-2.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.20E-07	6.80E-08	6.30E-08	2.50E-08	8.30E-09	-6.90E-09	-2.20E-07	-2.80E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

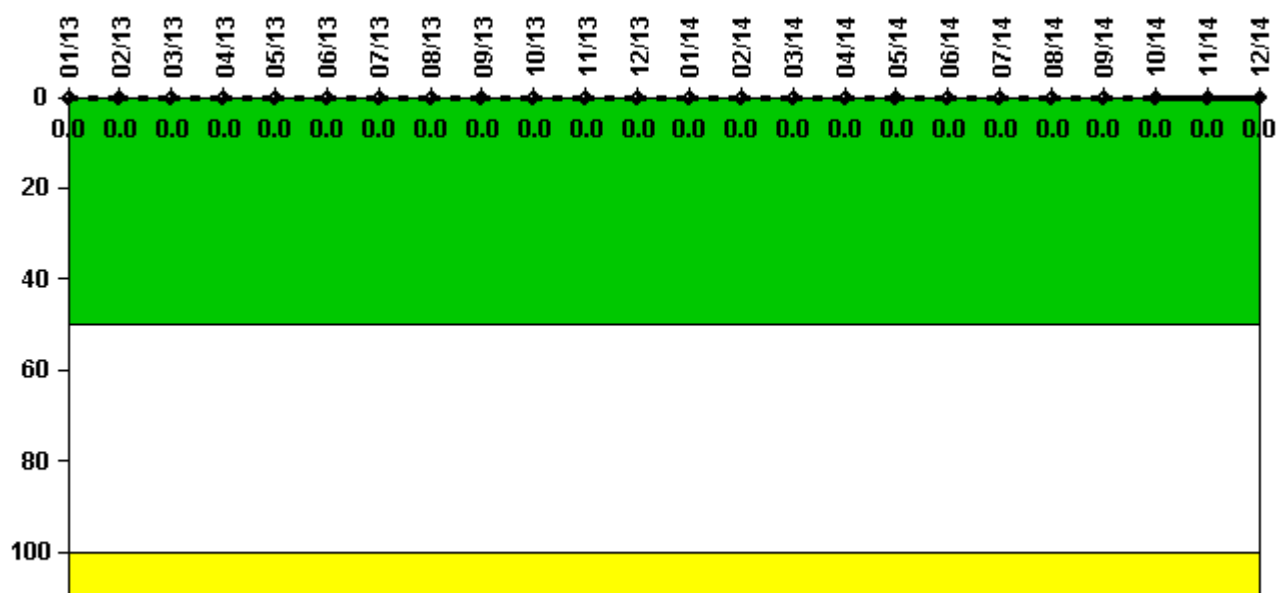
Notes

Reactor Coolant System Activity	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum activity	0.003630	0.004960	0.005250	0.003880	0.003880	0.005740	0.005850	0.006060	0.006420	0.006720	0.006680	0.007040
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.5	0.5	0.4	0.4	0.6	0.6	0.6	0.6	0.7	0.7	0.7
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	0.007360	N/A	0.002890	0.002970	0.003430	0.003510	0.003460	0.004060	0.004240	0.004550	0.004540	0.004820
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.7	N/A	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.5	0.5	0.5

Licensee Comments:

3/14: Refueling outage for Feb 2014; no sampling per INPO 04-004.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

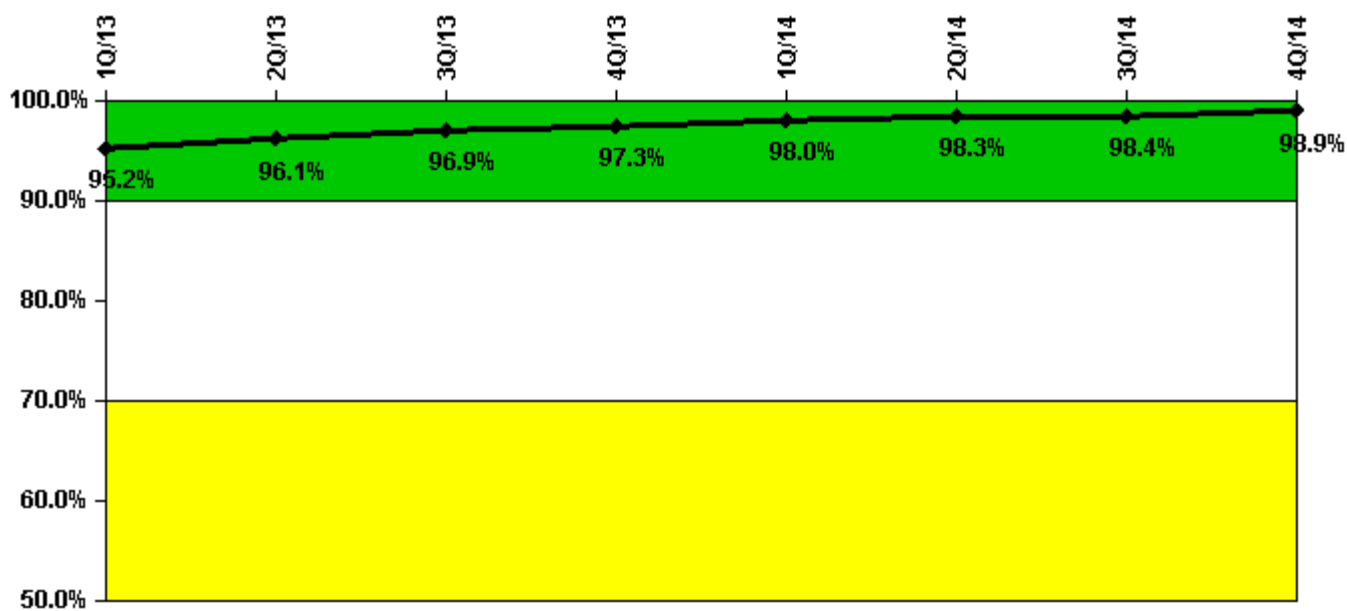
Notes

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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Leakage	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	0.001	0	0	0	0	0	0.001	0.001	0.001	0.003	0.003	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



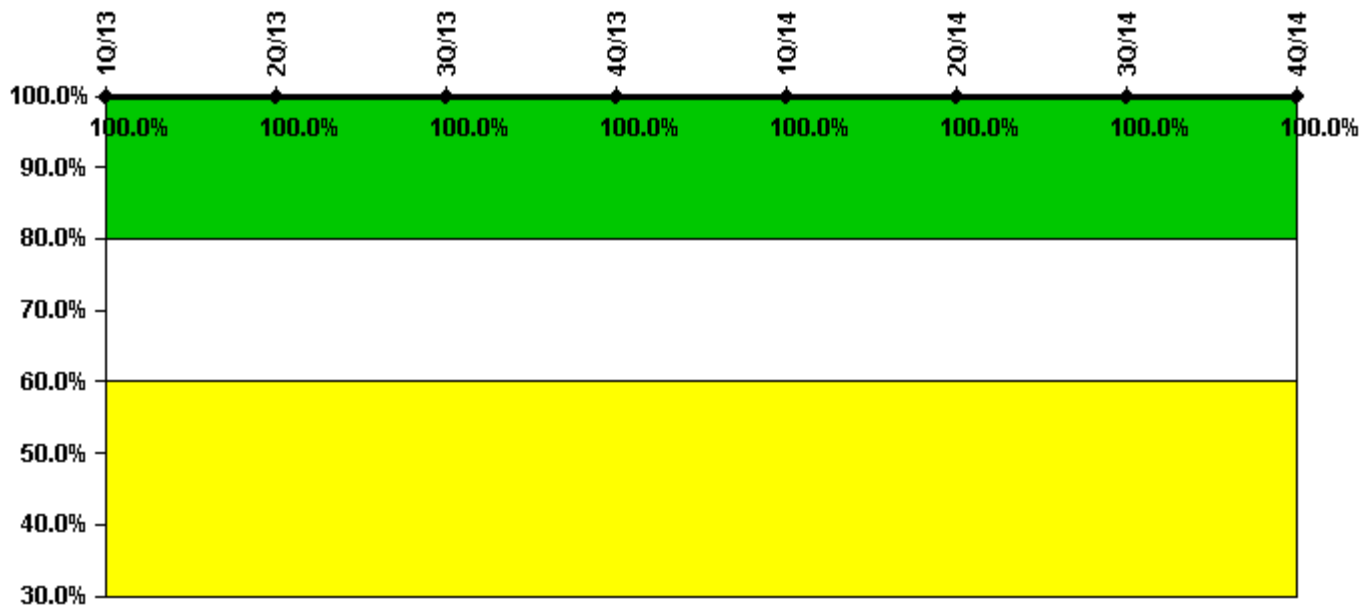
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful opportunities	68.0	95.0	82.0	44.0	32.0	66.0	19.0	30.0
Total opportunities	68.0	96.0	82.0	44.0	32.0	67.0	22.0	30.0
Indicator value	95.2%	96.1%	96.9%	97.3%	98.0%	98.3%	98.4%	98.9%

Licensee Comments: none

ERO Drill Participation



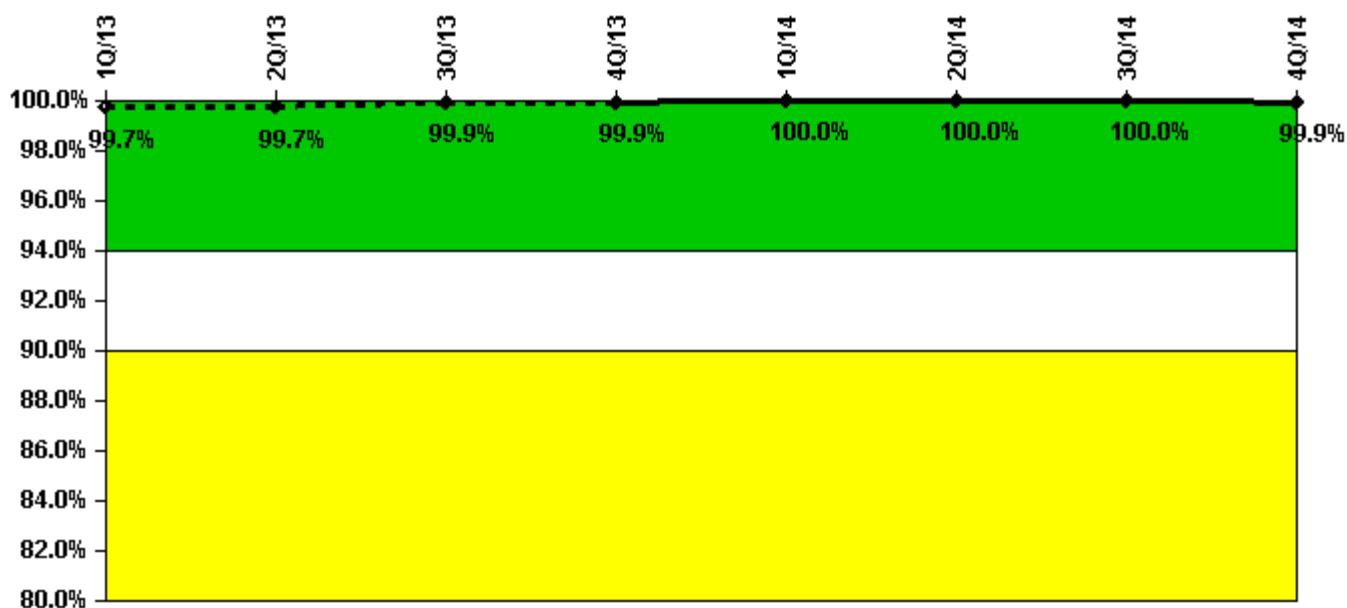
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Participating Key personnel	80.0	75.0	76.0	72.0	70.0	68.0	62.0	69.0
Total Key personnel	80.0	75.0	76.0	72.0	70.0	68.0	62.0	69.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



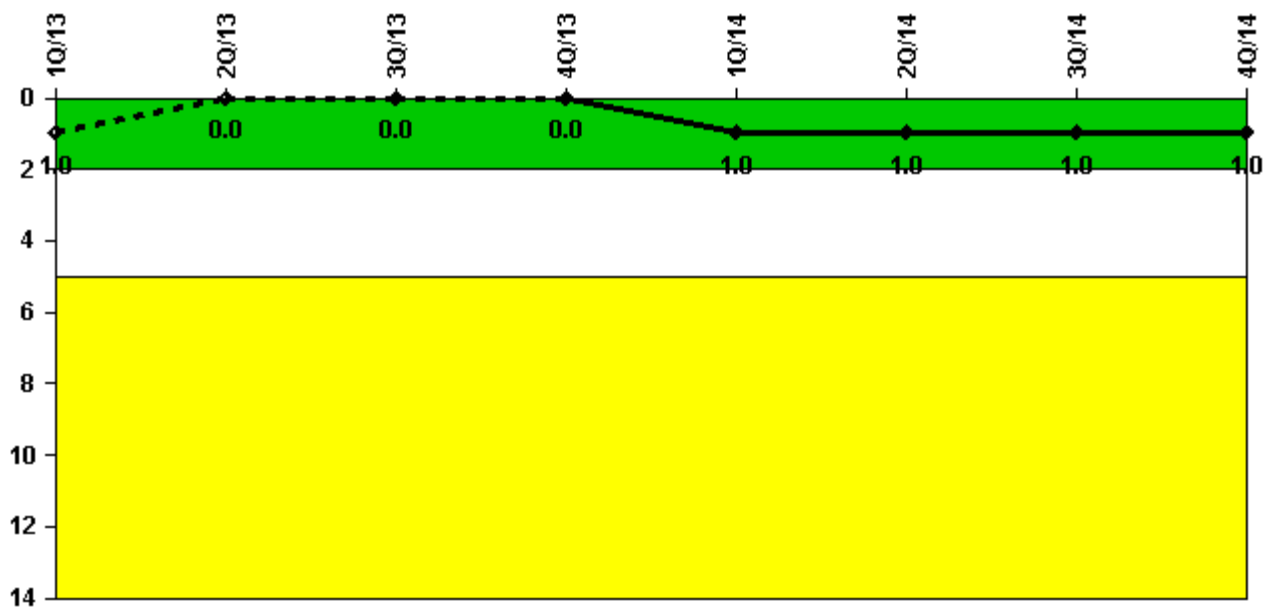
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful siren-tests	182	183	183	183	183	183	183	182
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.7%	99.7%	99.9%	99.9%	100.0%	100.0%	100.0%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness

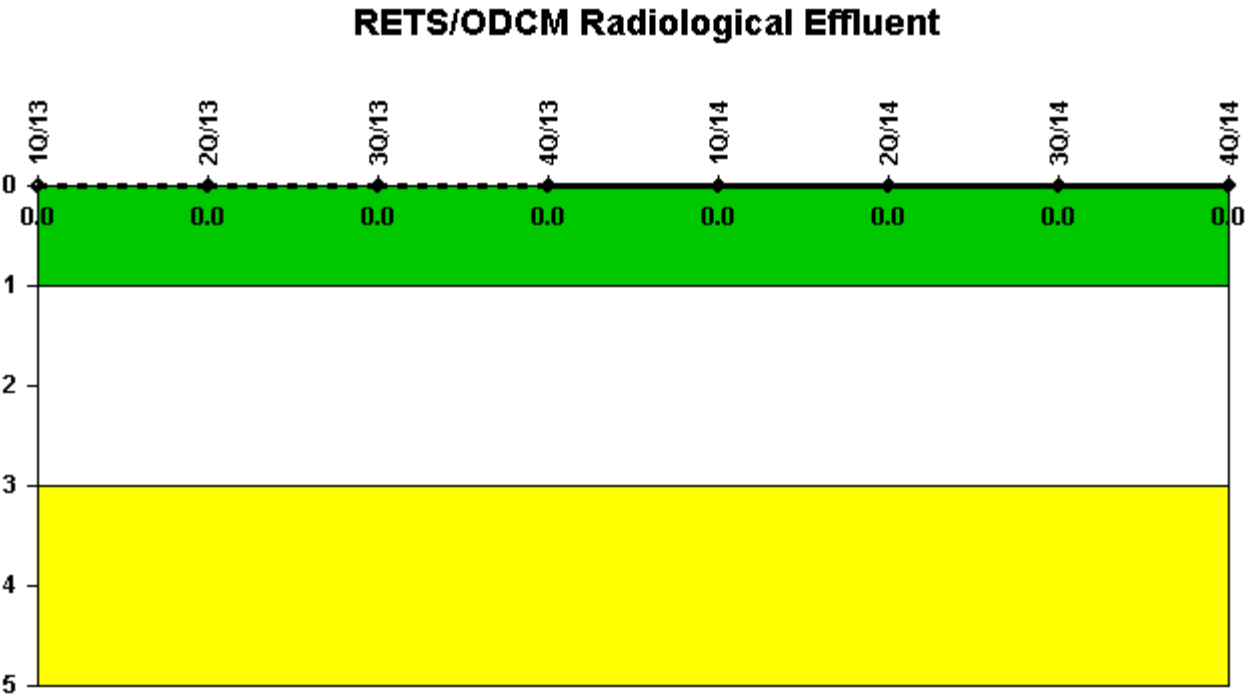


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
High radiation area occurrences	0	0	0	0	1	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	0	0	0	1	1	1	1

Licensee Comments: none



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



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

Last Modified: February 3, 2015

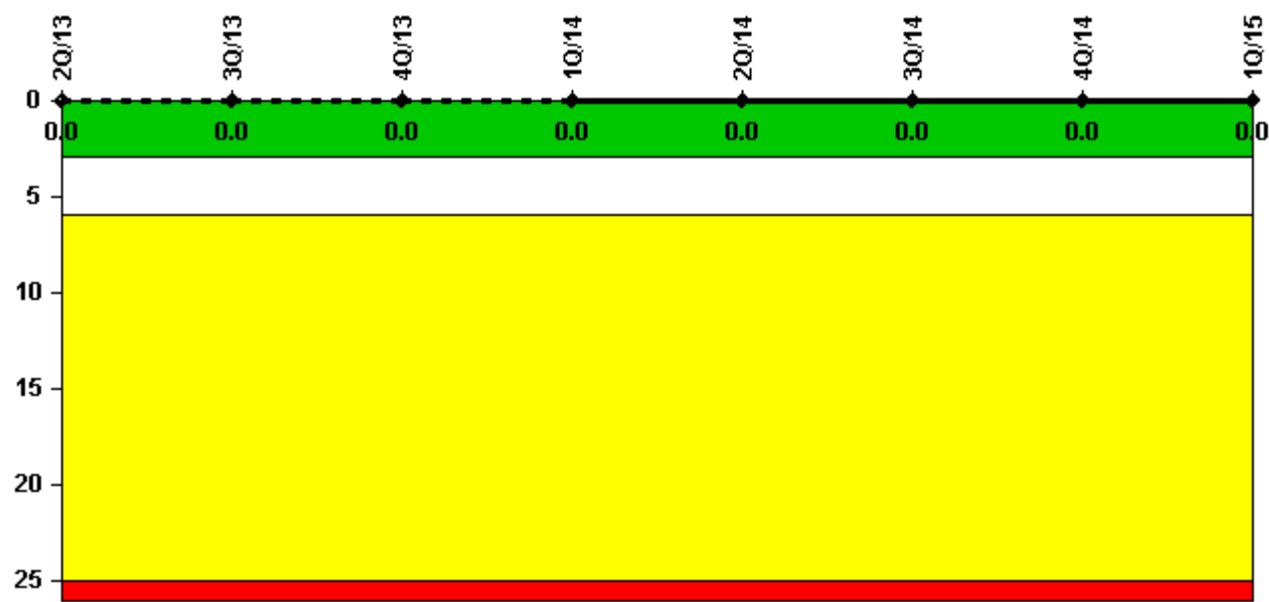
Palisades

1Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



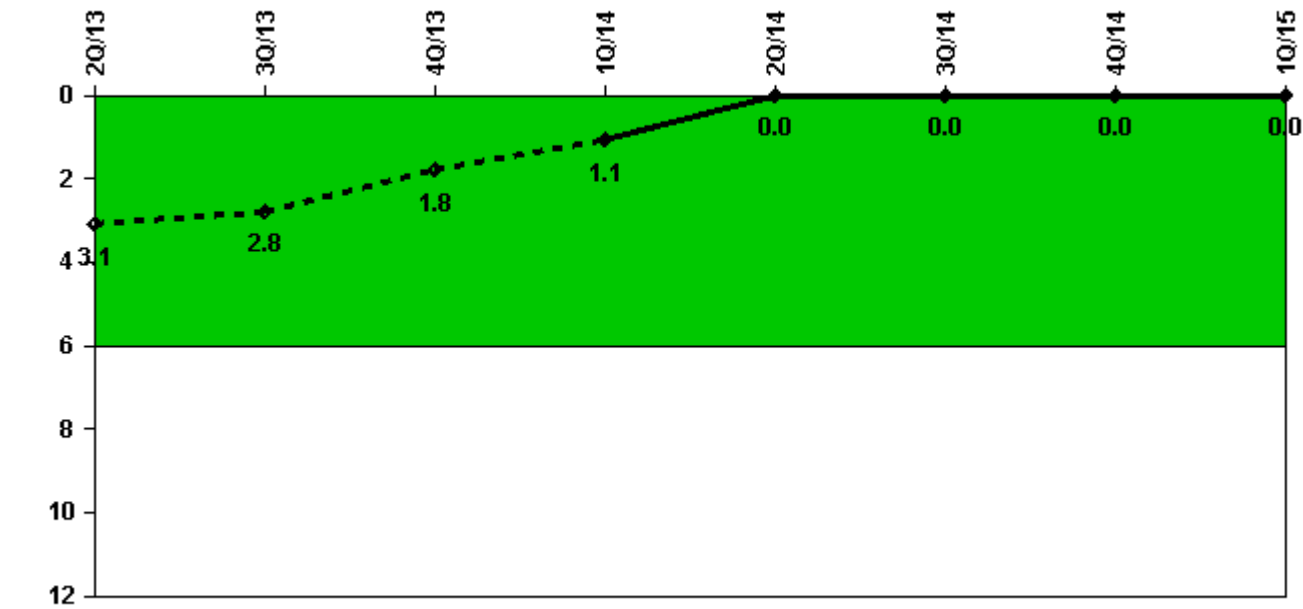
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1158.4	2208.0	2209.0	839.1	2054.0	2208.0	2209.0	2159.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



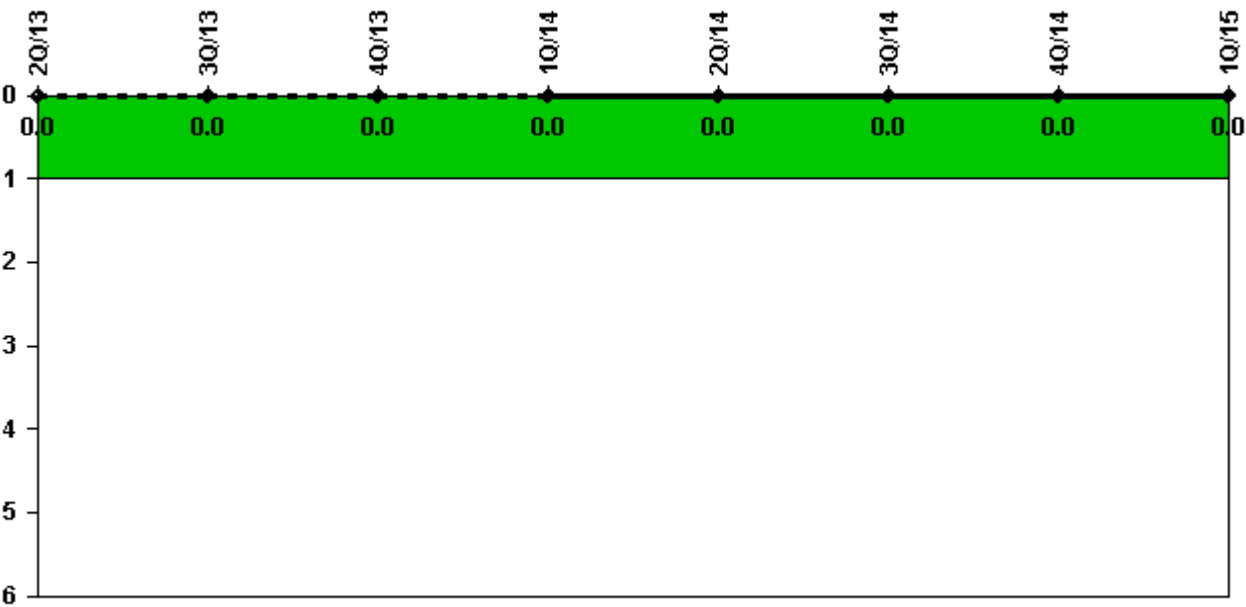
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	1158.4	2208.0	2209.0	839.1	2054.0	2208.0	2209.0	2159.0
Indicator value	3.1	2.8	1.8	1.1	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



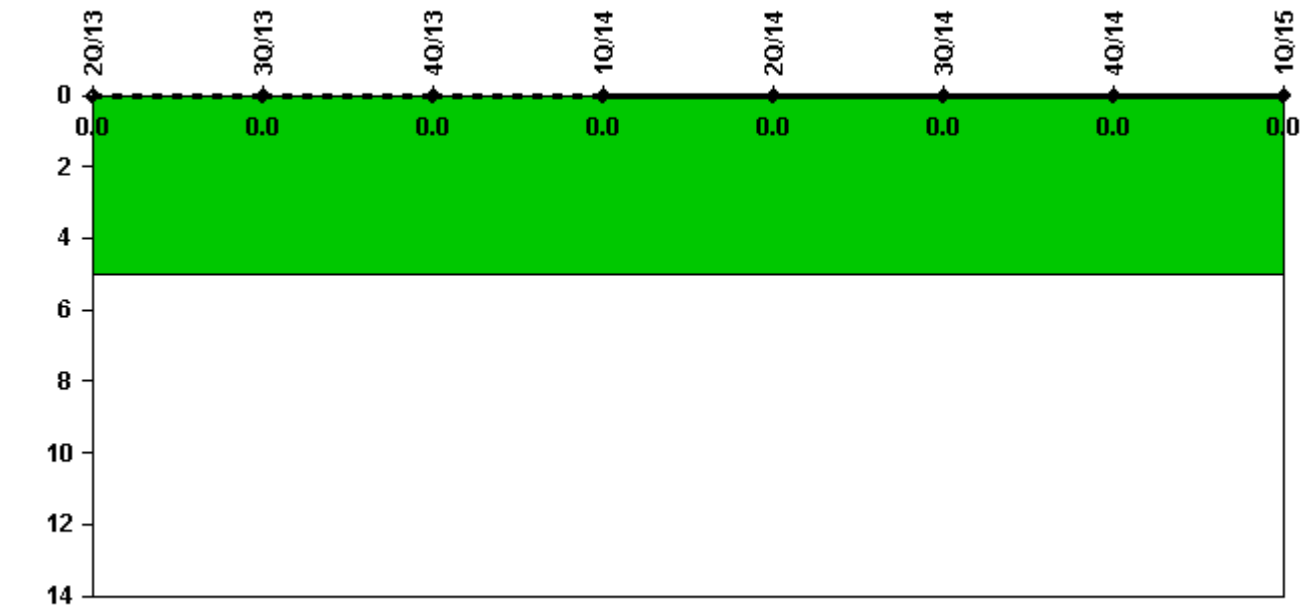
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



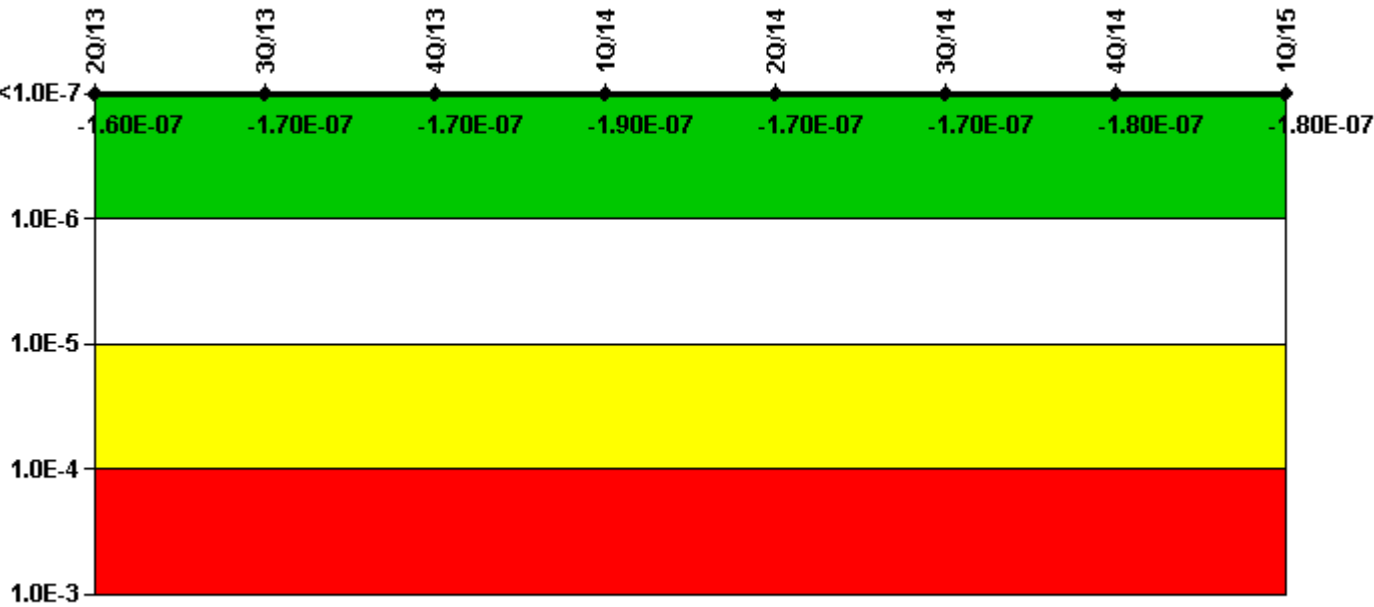
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



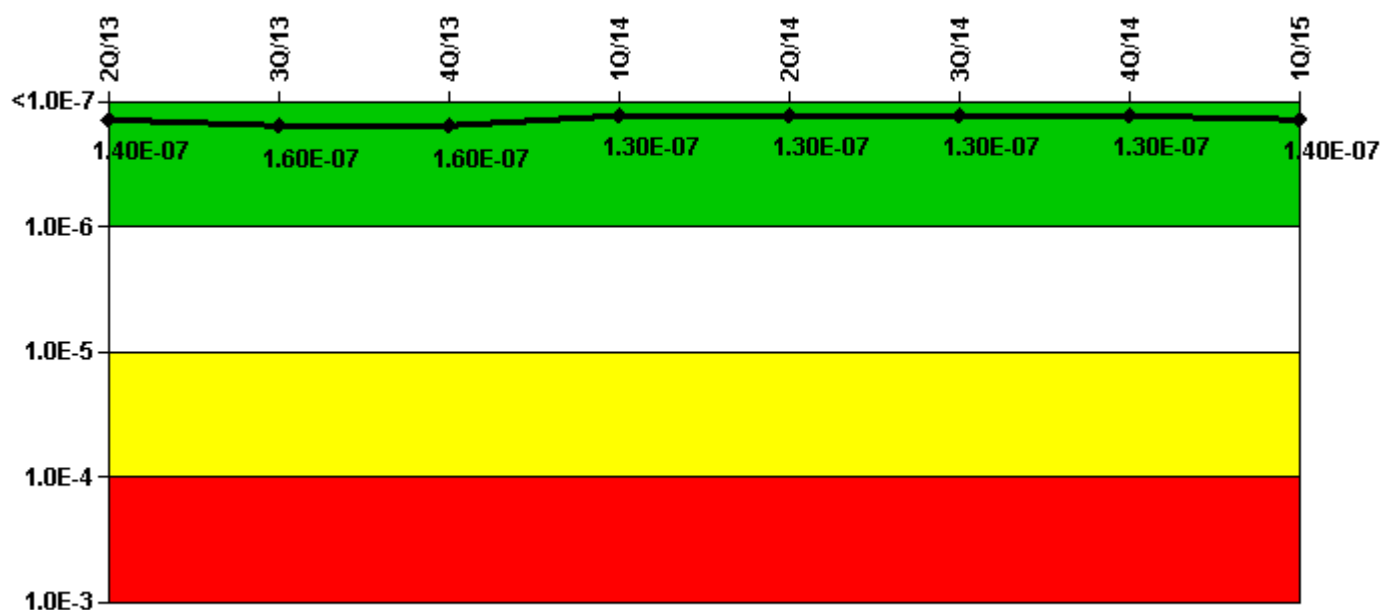
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (ΔCDF)	4.86E-09	-6.13E-09	-1.14E-08	-2.73E-08	-1.08E-08	-1.24E-08	-1.75E-08	-1.79E-08
URI (ΔCDF)	-1.63E-07	-1.62E-07	-1.62E-07	-1.61E-07	-1.60E-07	-1.60E-07	-1.59E-07	-1.59E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-07	-1.70E-07	-1.70E-07	-1.90E-07	-1.70E-07	-1.70E-07	-1.80E-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/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (Δ CDF)	-9.51E-08	-7.30E-08	-6.99E-08	-1.06E-07	-1.06E-07	-1.06E-07	-1.06E-07	-9.92E-08
URI (Δ CDF)	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.40E-07	1.60E-07	1.60E-07	1.30E-07	1.30E-07	1.30E-07	1.30E-07	1.40E-07

Licensee Comments:

1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked.

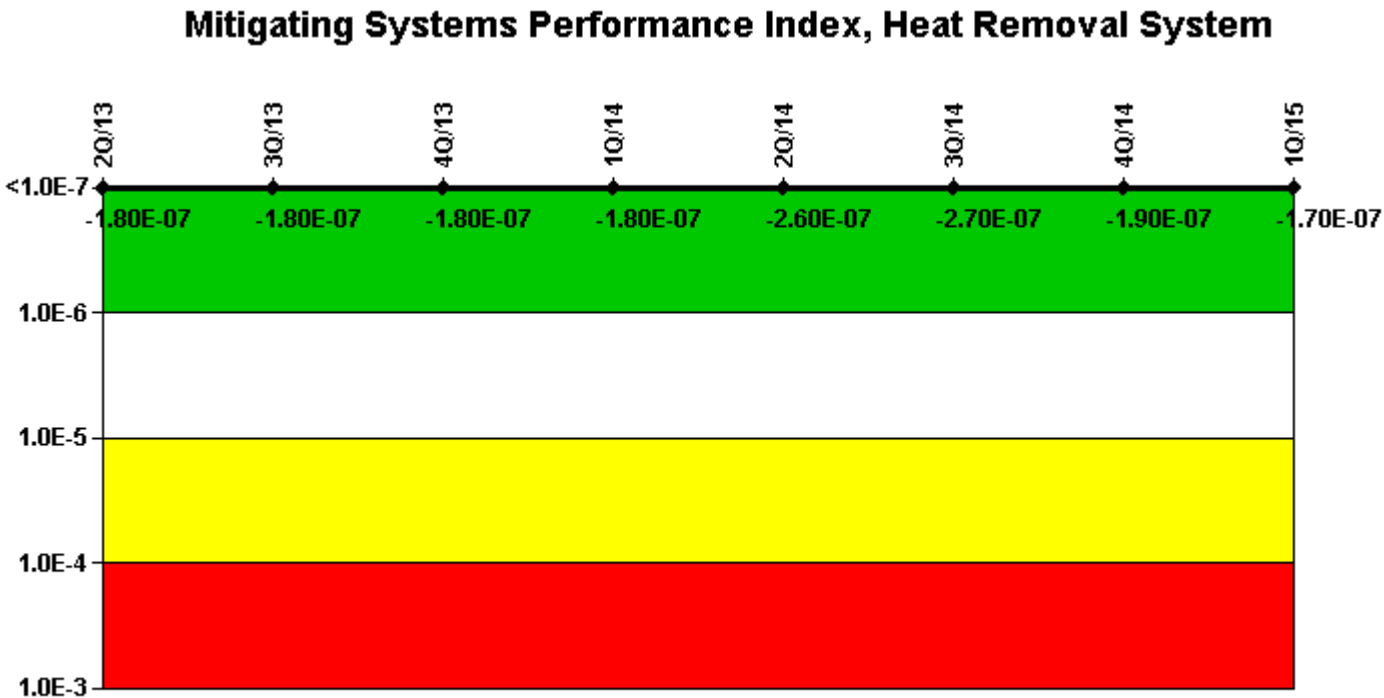
2Q/14: Risk Cap Invoked.

1Q/14: Risk Cap Invoked.

4Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

2Q/13: Risk Cap Invoked.

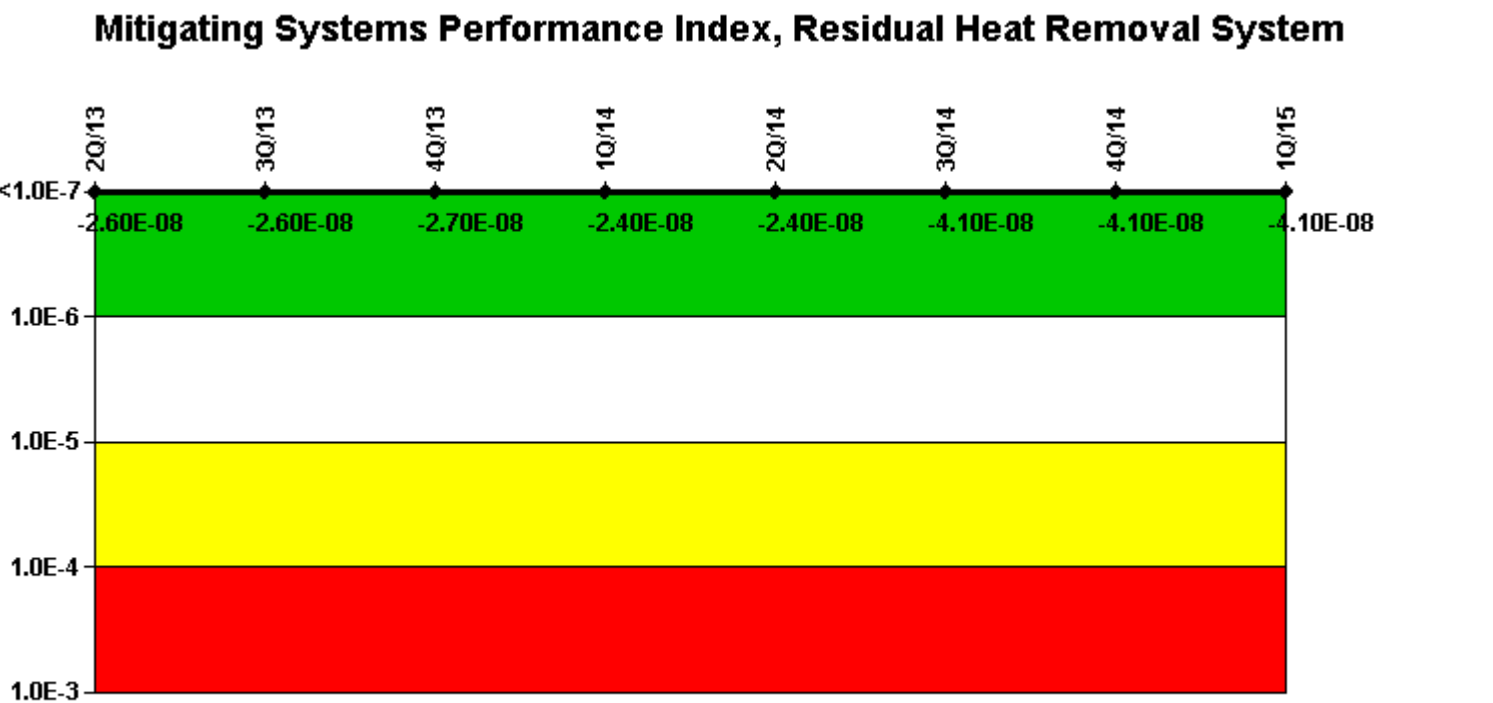


Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	2.13E-08	2.16E-08	2.11E-08	1.60E-08	1.40E-08	1.19E-08	1.37E-08	3.38E-08
URI (ΔCDF)	-2.01E-07	-2.01E-07	-2.01E-07	-2.01E-07	-2.78E-07	-2.77E-07	-2.00E-07	-2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.80E-07	-1.80E-07	-1.80E-07	-2.60E-07	-2.70E-07	-1.90E-07	-1.70E-07

Licensee Comments: none



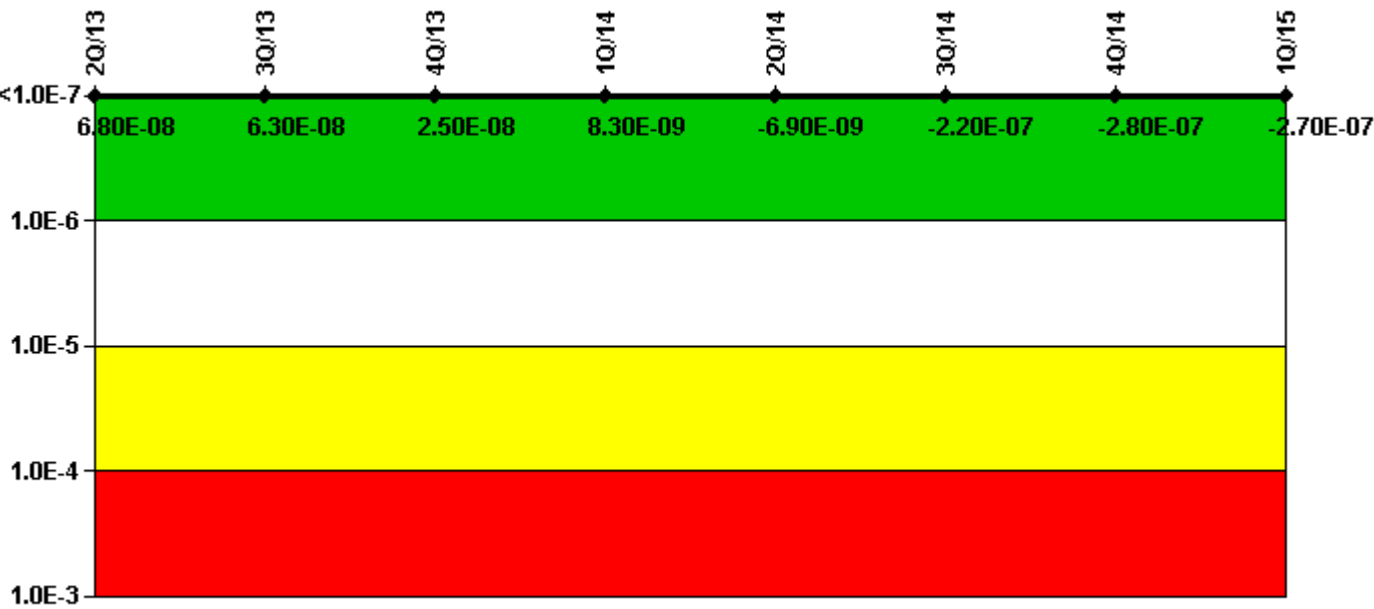
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (ΔCDF)	1.49E-08	1.48E-08	1.36E-08	1.62E-08	1.64E-08	-2.90E-10	-2.90E-10	-2.91E-10
URI (ΔCDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.60E-08	-2.60E-08	-2.70E-08	-2.40E-08	-2.40E-08	-4.10E-08	-4.10E-08	-4.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



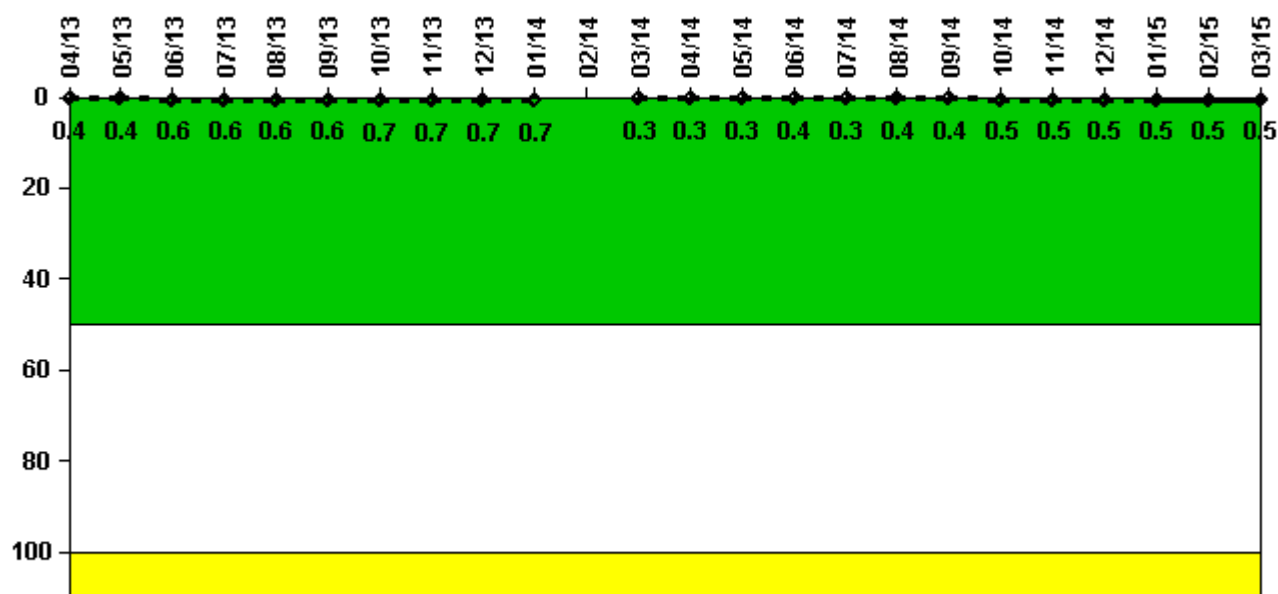
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (ΔCDF)	2.55E-07	2.49E-07	2.12E-07	1.95E-07	1.80E-07	1.47E-08	-5.15E-08	-3.68E-08
URI (ΔCDF)	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-2.31E-07	-2.31E-07	-2.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.80E-08	6.30E-08	2.50E-08	8.30E-09	-6.90E-09	-2.20E-07	-2.80E-07	-2.70E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

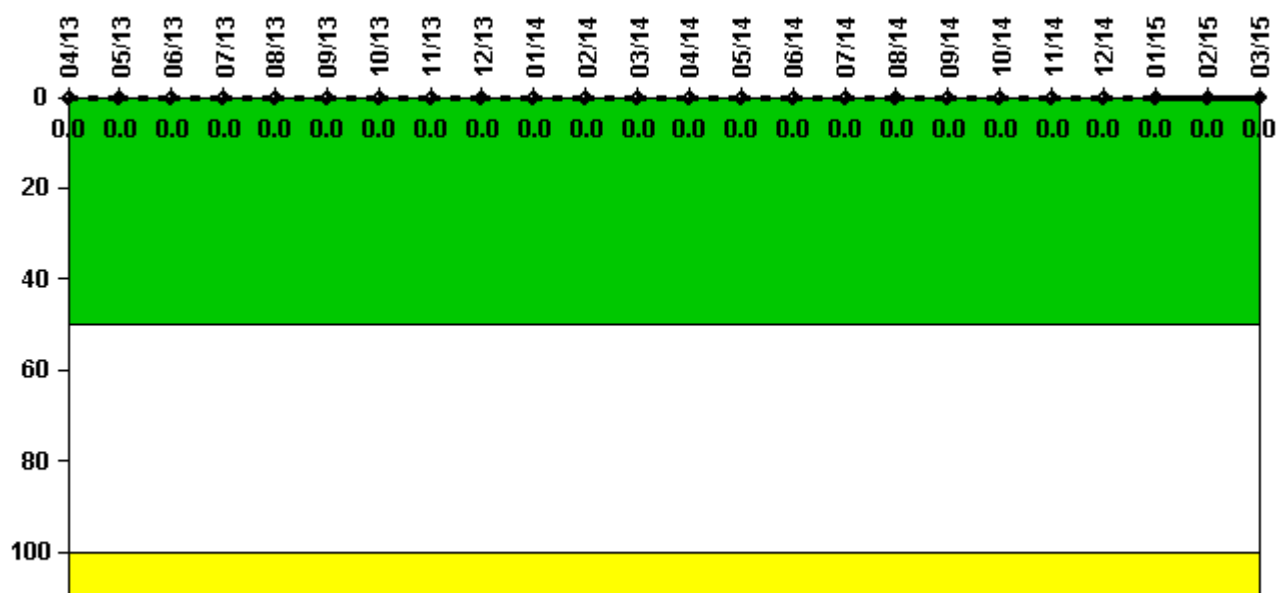
Reactor Coolant System Activity	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum activity	0.003880	0.003880	0.005740	0.005850	0.006060	0.006420	0.006720	0.006680	0.007040	0.007360	N/A	0.002890
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.4	0.6	0.6	0.6	0.6	0.7	0.7	0.7	0.7	N/A	0.3

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	0.002970	0.003430	0.003510	0.003460	0.004060	0.004240	0.004550	0.004540	0.004820	0.005160	0.005170	0.004910
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.3	0.3	0.4	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5

Licensee Comments:

3/14: Refueling outage for Feb 2014; no sampling per INPO 04-004.

Reactor Coolant System Leakage



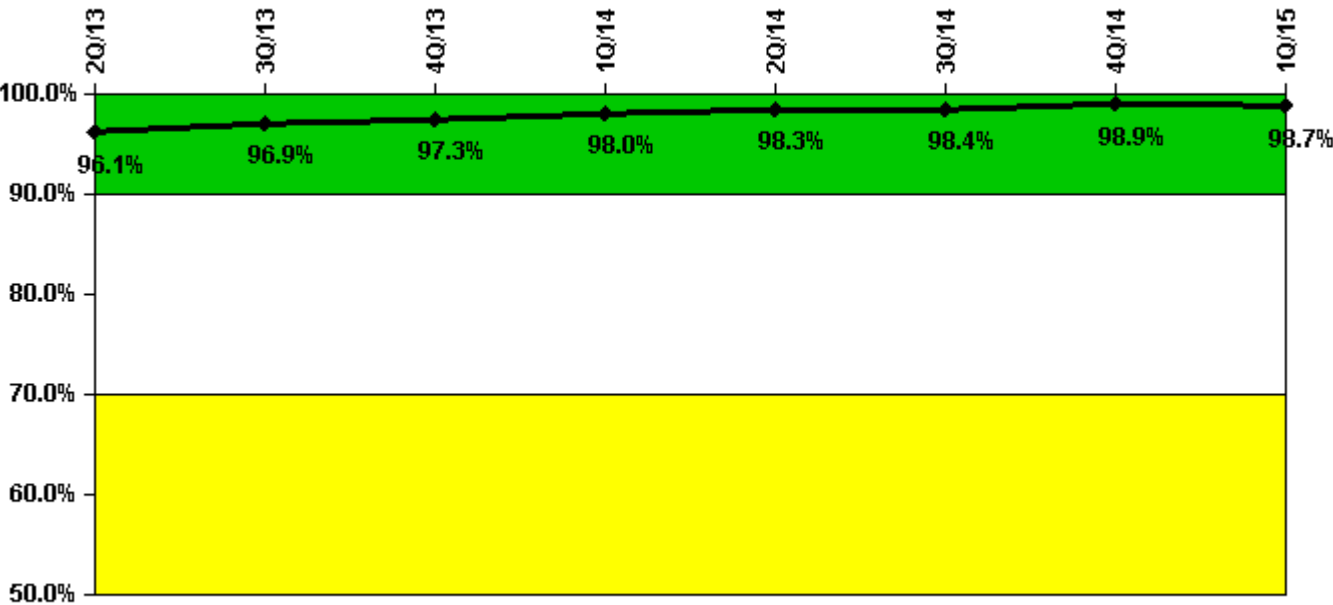
Thresholds: White > 50.0 Yellow > 100.0

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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0	0
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Leakage	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	0	0	0.001	0.001	0.001	0.003	0.003	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



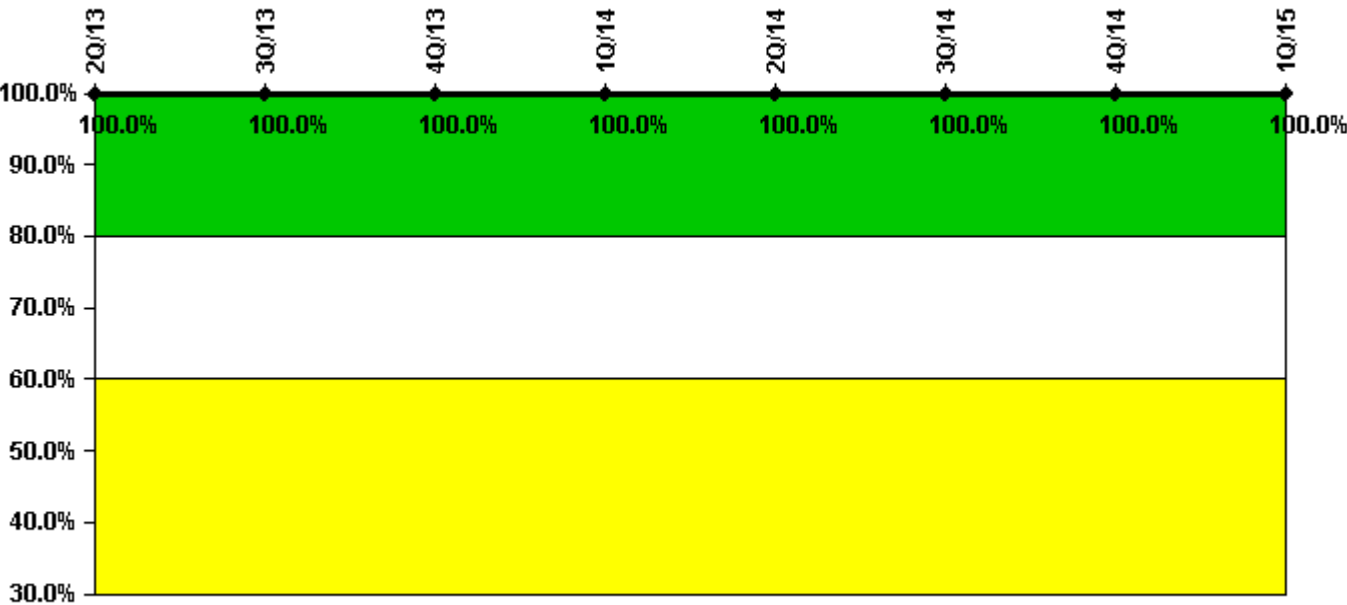
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful opportunities	95.0	82.0	44.0	32.0	66.0	19.0	30.0	80.0
Total opportunities	96.0	82.0	44.0	32.0	67.0	22.0	30.0	81.0
Indicator value	96.1%	96.9%	97.3%	98.0%	98.3%	98.4%	98.9%	98.7%

Licensee Comments: none

ERO Drill Participation



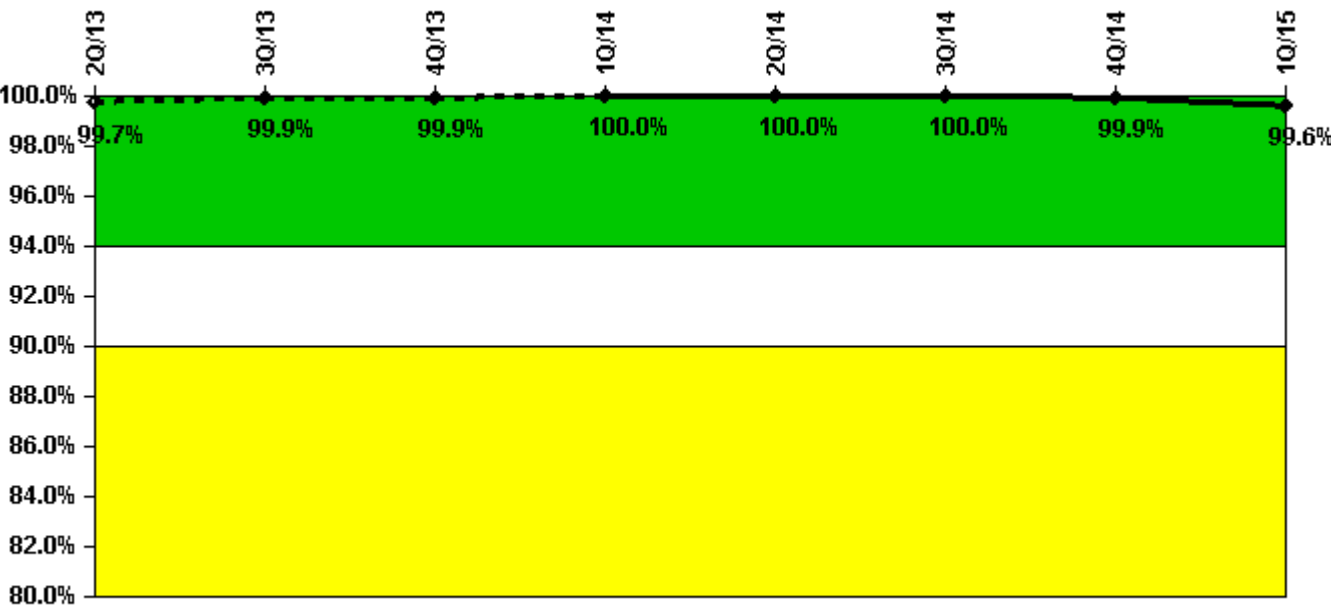
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Participating Key personnel	75.0	76.0	72.0	70.0	68.0	62.0	69.0	68.0
Total Key personnel	75.0	76.0	72.0	70.0	68.0	62.0	69.0	68.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



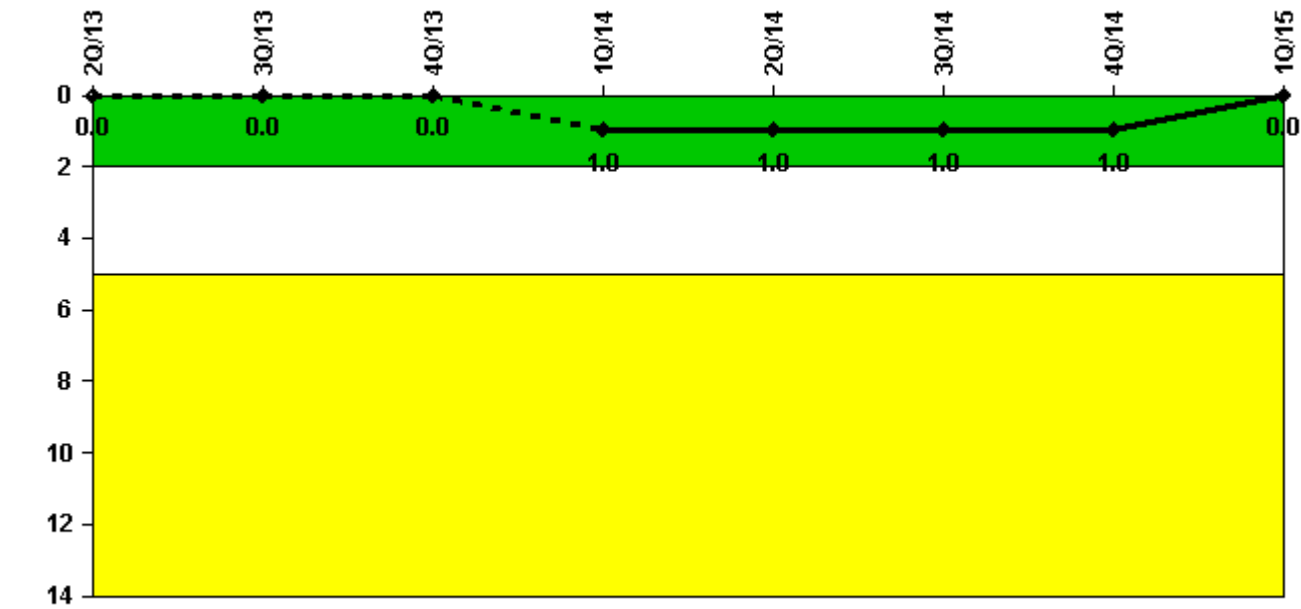
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful siren-tests	183	183	183	183	183	183	182	181
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.7%	99.9%	99.9%	100.0%	100.0%	100.0%	99.9%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness

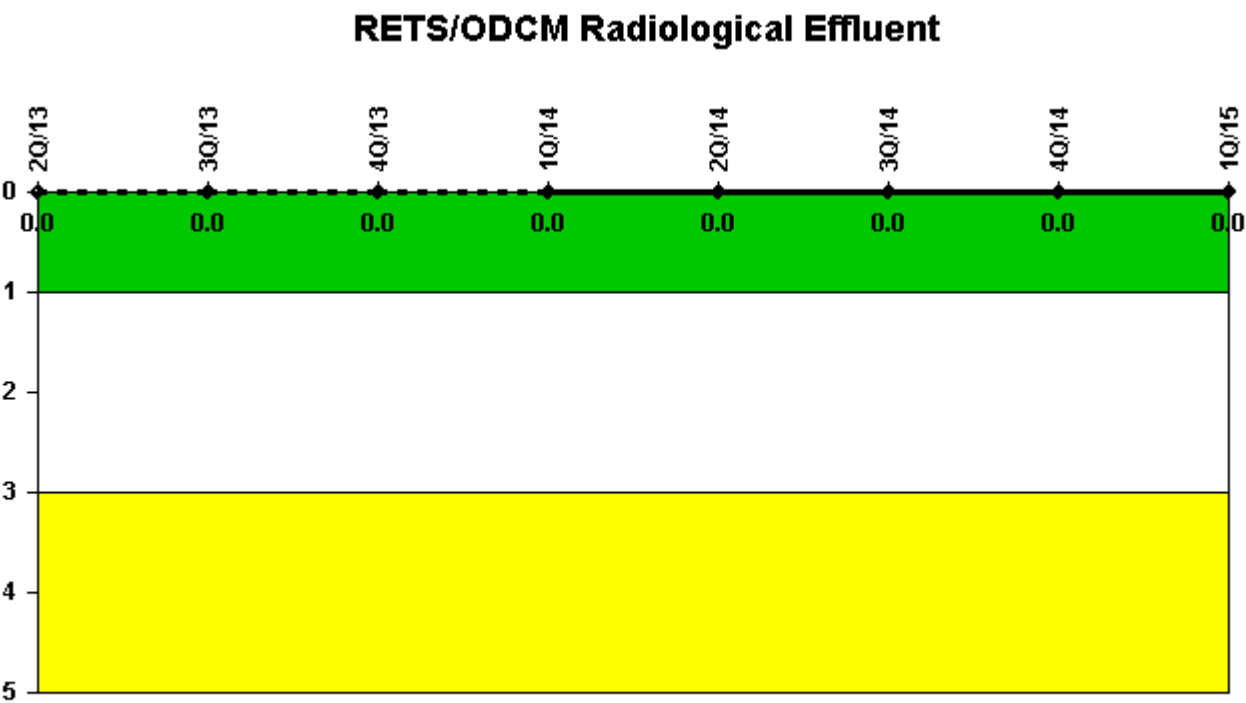


Thresholds: White > 2.0 Yellow > 5.0

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

Licensee Comments: none



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

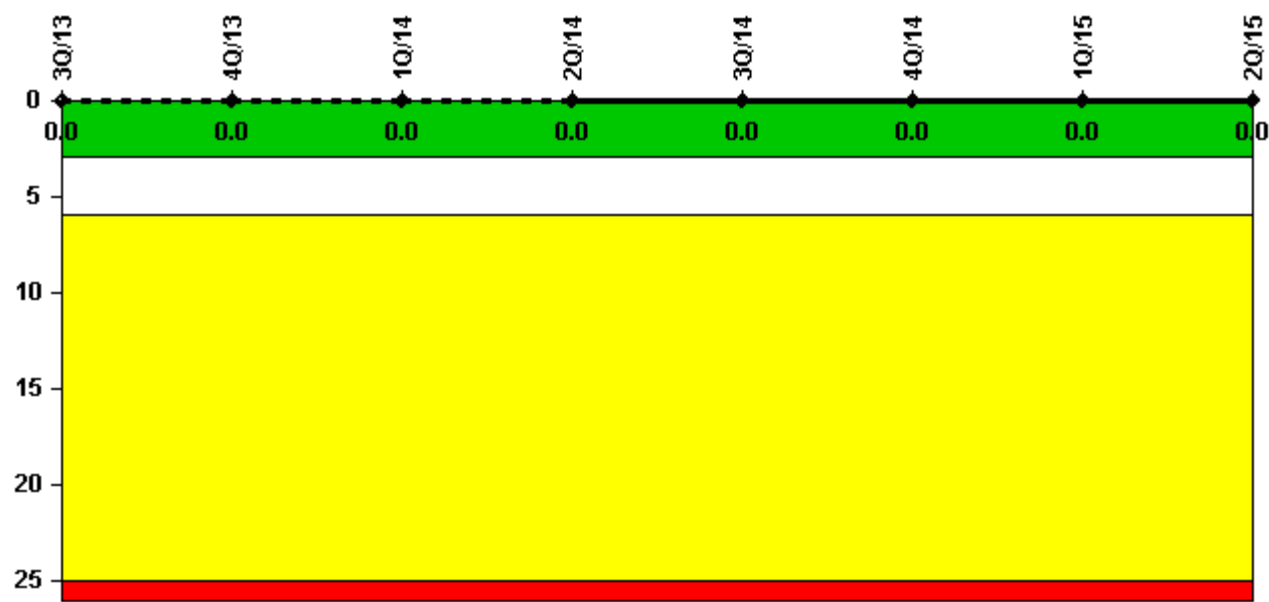
Palisades

2Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



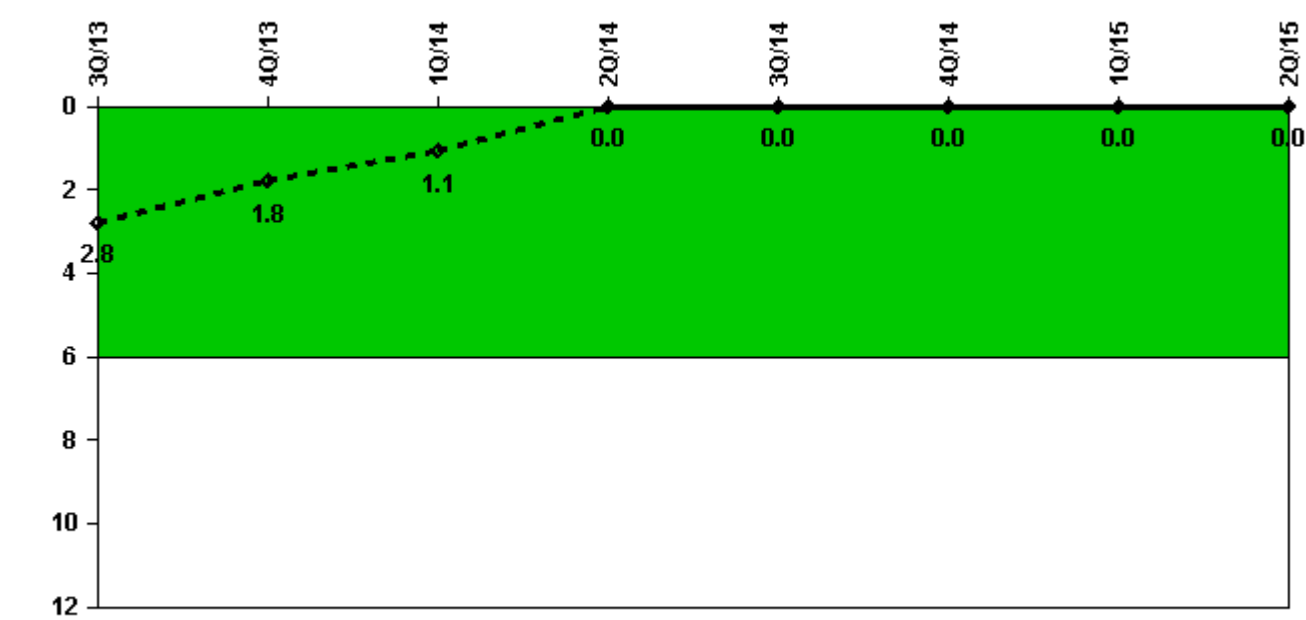
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	839.1	2054.0	2208.0	2209.0	2159.0	2184.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



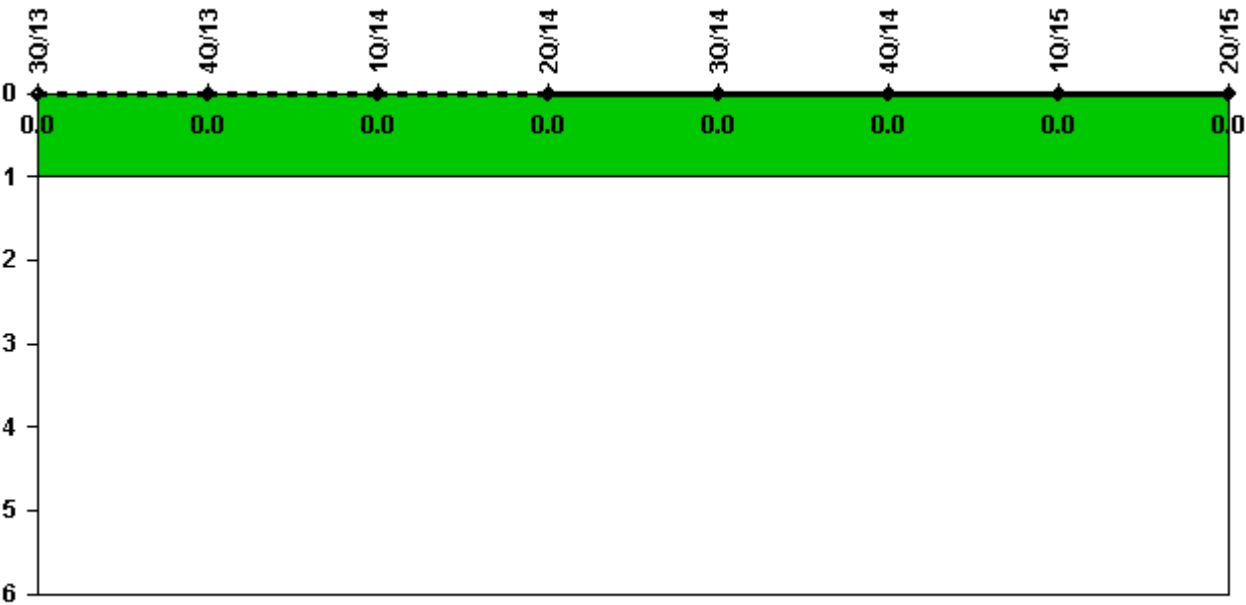
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	839.1	2054.0	2208.0	2209.0	2159.0	2184.0
Indicator value	2.8	1.8	1.1	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



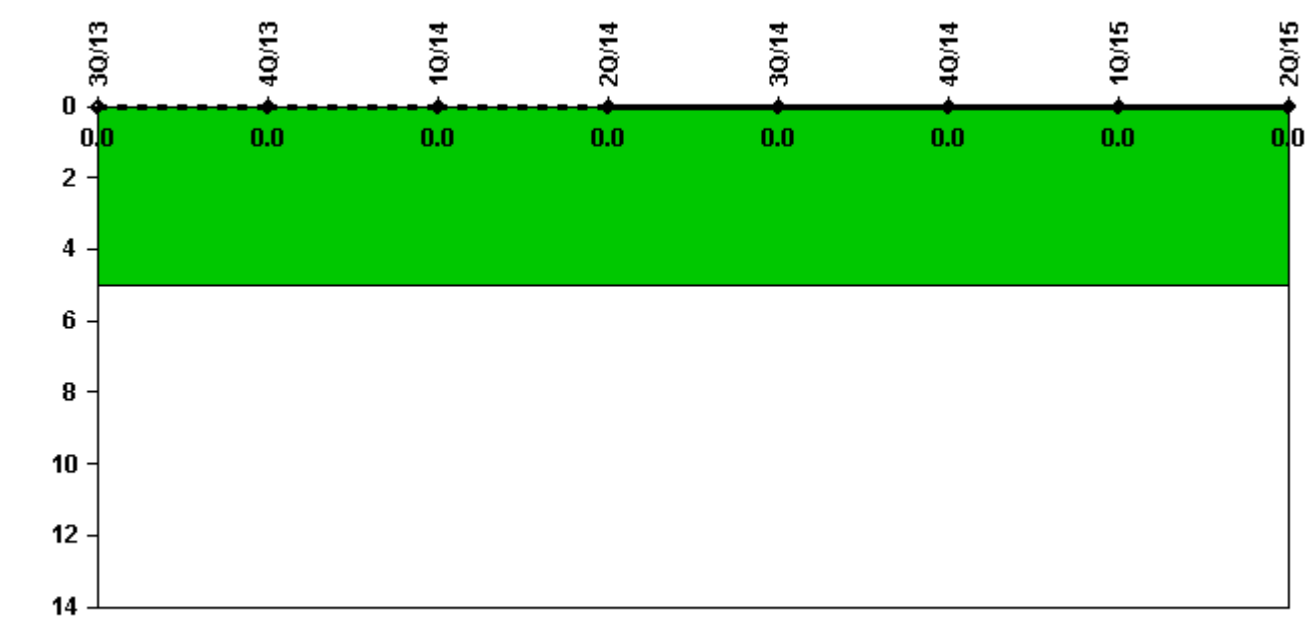
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



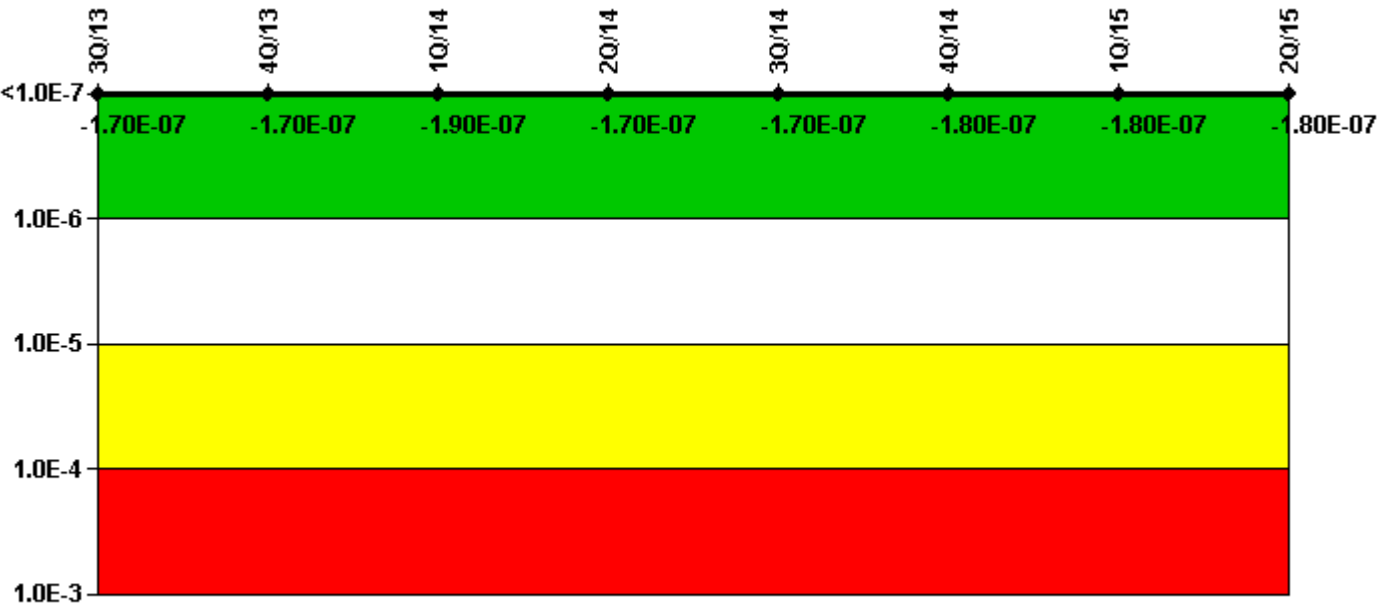
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



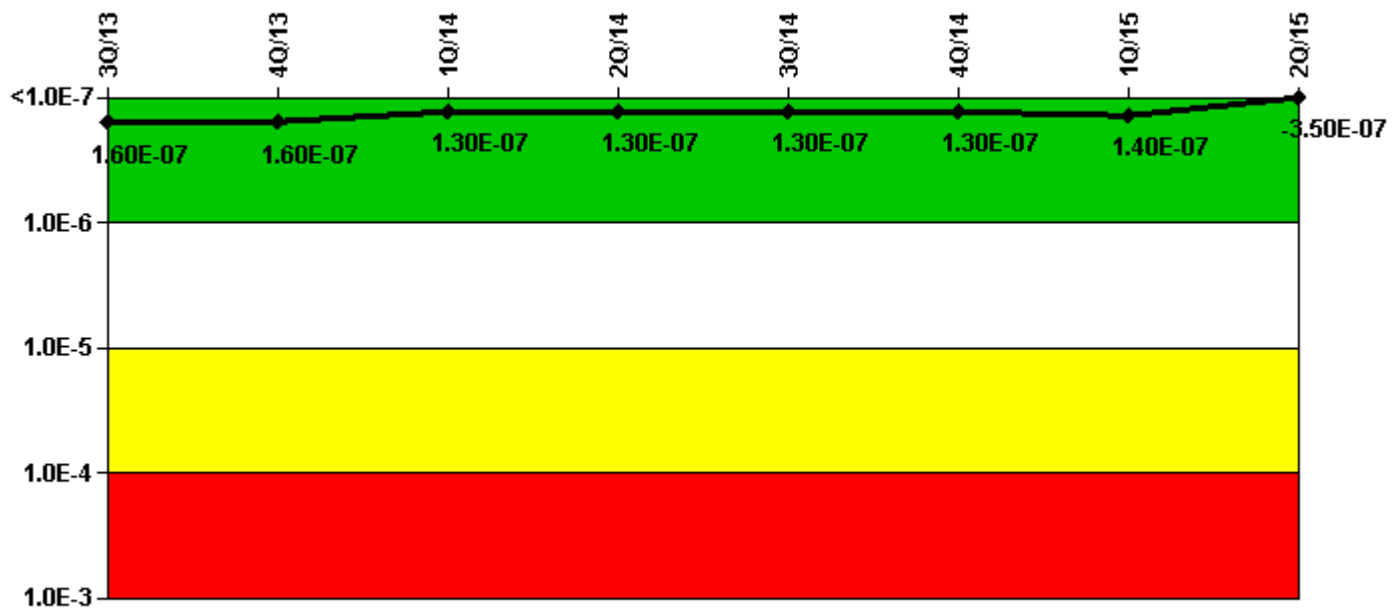
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	-6.13E-09	-1.14E-08	-2.73E-08	-1.08E-08	-1.24E-08	-1.75E-08	-1.79E-08	-2.02E-08
URI (ΔCDF)	-1.62E-07	-1.62E-07	-1.61E-07	-1.60E-07	-1.60E-07	-1.59E-07	-1.59E-07	-1.59E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	-1.70E-07	-1.90E-07	-1.70E-07	-1.70E-07	-1.80E-07	-1.80E-07	-1.80E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (Δ CDF)	-7.30E-08	-6.99E-08	-1.06E-07	-1.06E-07	-1.06E-07	-1.06E-07	-9.92E-08	-8.21E-08
URI (Δ CDF)	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.60E-07	1.60E-07	1.30E-07	1.30E-07	1.30E-07	1.30E-07	1.40E-07	-3.50E-07

Licensee Comments:

1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

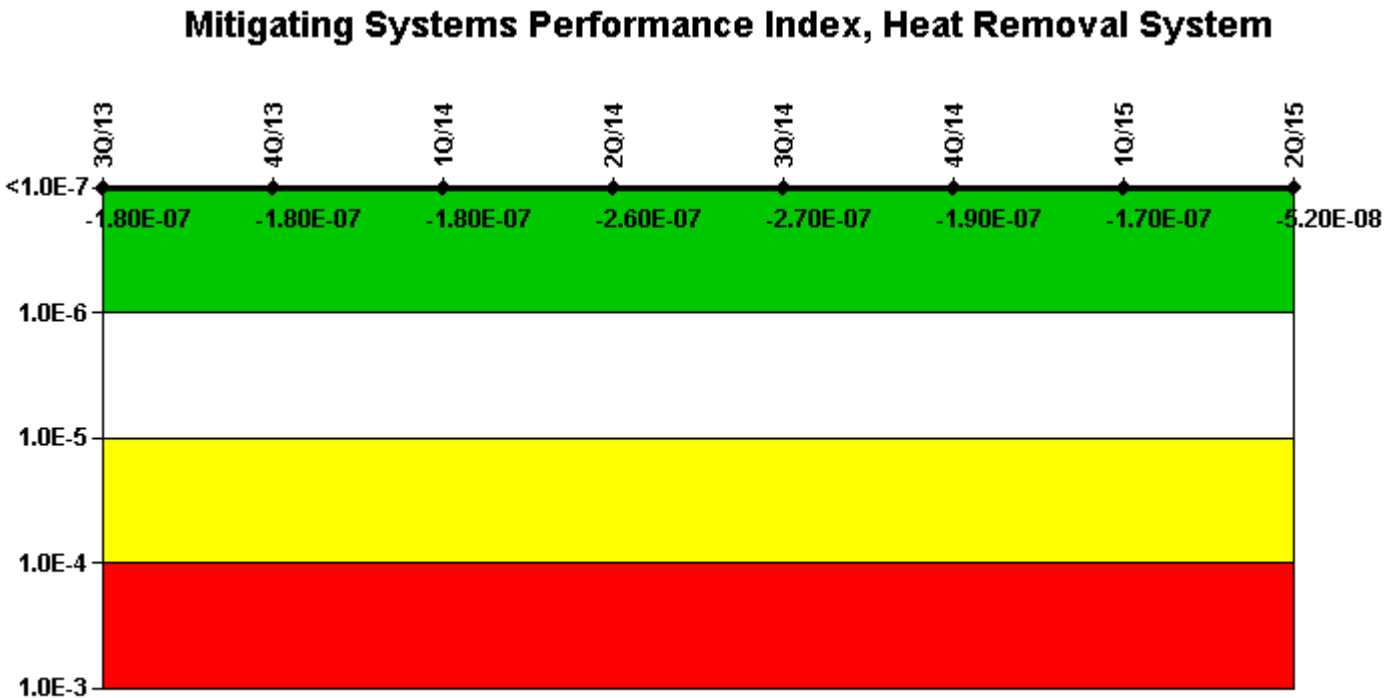
3Q/14: Risk Cap Invoked.

2Q/14: Risk Cap Invoked.

1Q/14: Risk Cap Invoked.

4Q/13: Risk Cap Invoked.

3Q/13: Risk Cap Invoked.

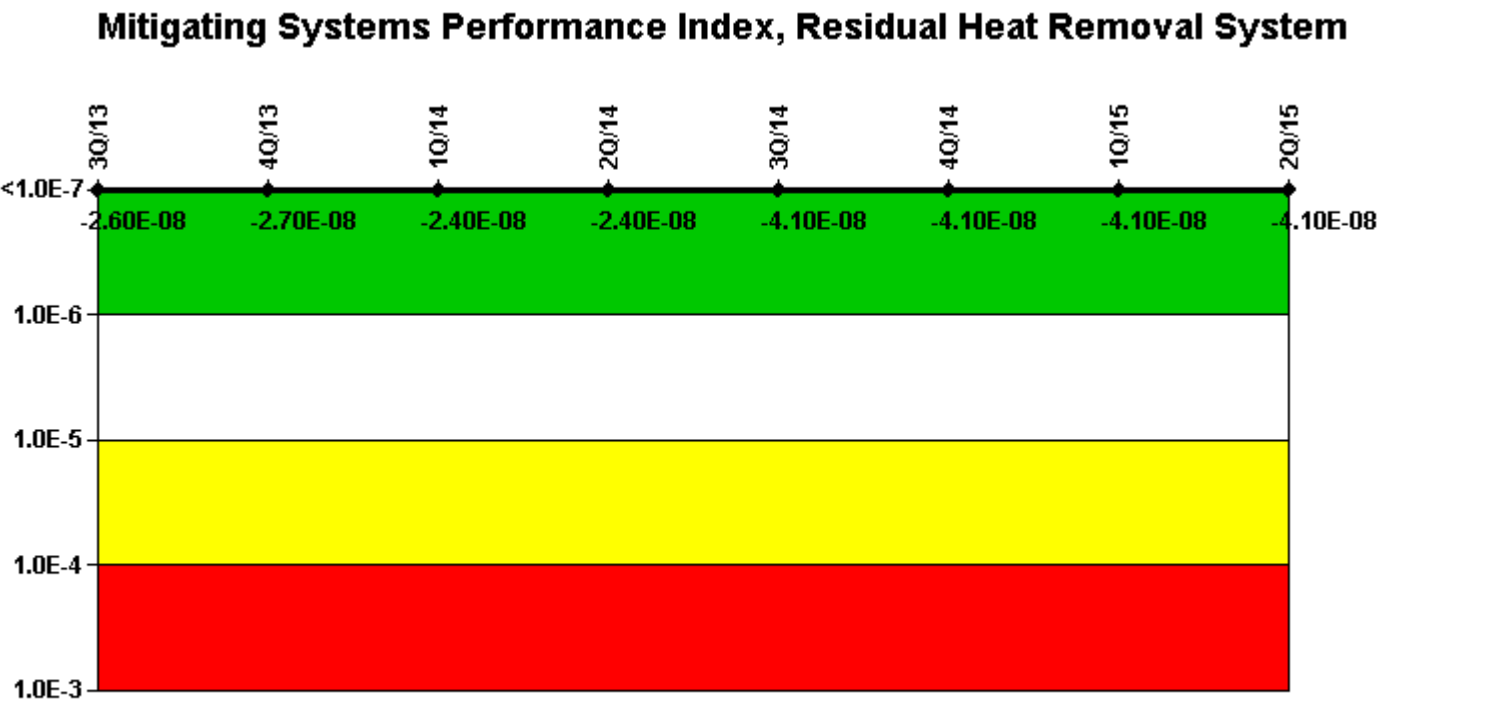


Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	2.16E-08	2.11E-08	1.60E-08	1.40E-08	1.19E-08	1.37E-08	3.38E-08	1.48E-07
URI (ΔCDF)	-2.01E-07	-2.01E-07	-2.01E-07	-2.78E-07	-2.77E-07	-2.00E-07	-2.00E-07	-2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.80E-07	-1.80E-07	-2.60E-07	-2.70E-07	-1.90E-07	-1.70E-07	-5.20E-08

Licensee Comments: none



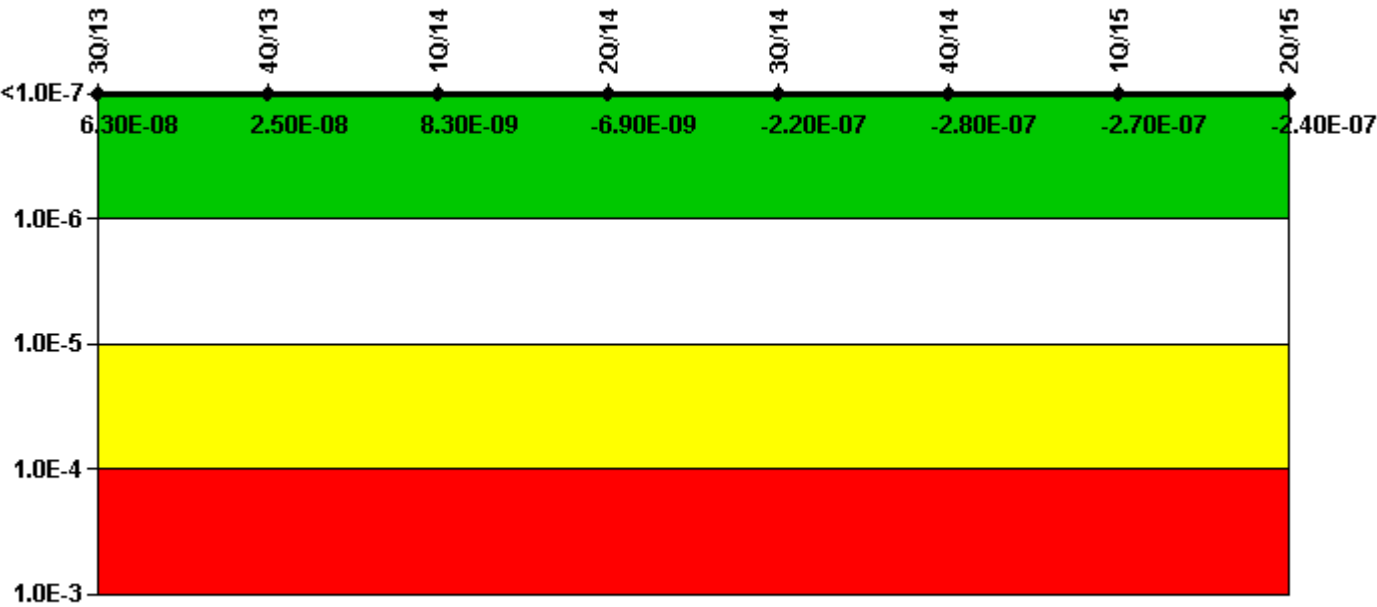
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	1.48E-08	1.36E-08	1.62E-08	1.64E-08	-2.90E-10	-2.90E-10	-2.91E-10	-3.01E-10
URI (ΔCDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.60E-08	-2.70E-08	-2.40E-08	-2.40E-08	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



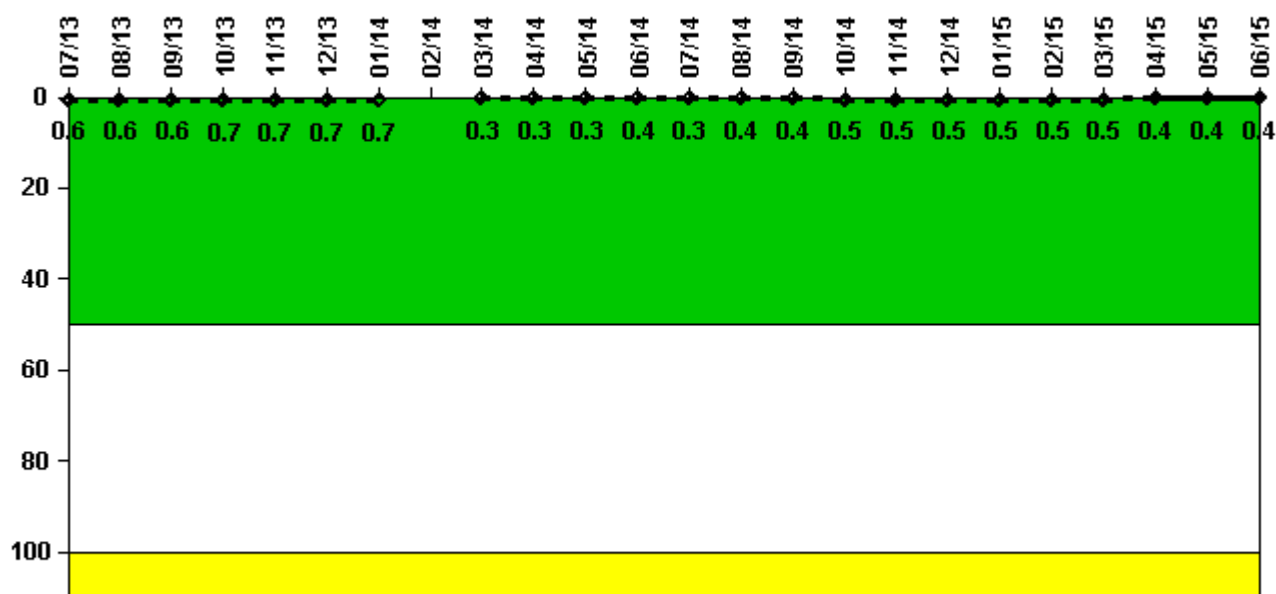
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	2.49E-07	2.12E-07	1.95E-07	1.80E-07	1.47E-08	-5.15E-08	-3.68E-08	-9.34E-09
URI (ΔCDF)	-1.87E-07	-1.87E-07	-1.87E-07	-1.87E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.30E-08	2.50E-08	8.30E-09	-6.90E-09	-2.20E-07	-2.80E-07	-2.70E-07	-2.40E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

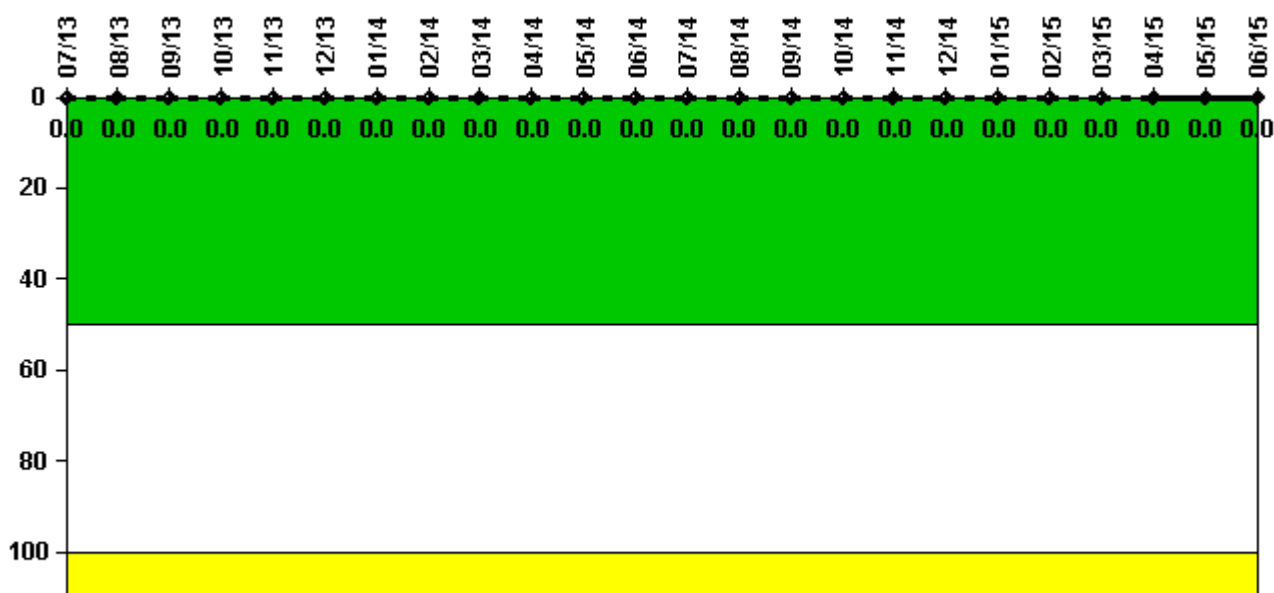
Reactor Coolant System Activity	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum activity	0.005850	0.006060	0.006420	0.006720	0.006680	0.007040	0.007360	N/A	0.002890	0.002970	0.003430	0.003510
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.6	0.6	0.6	0.7	0.7	0.7	0.7	N/A	0.3	0.3	0.3	0.4

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	0.003460	0.004060	0.004240	0.004550	0.004540	0.004820	0.005160	0.005170	0.004910	0.004100	0.004450	0.004110
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4

Licensee Comments:

3/14: Refueling outage for Feb 2014; no sampling per INPO 04-004.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

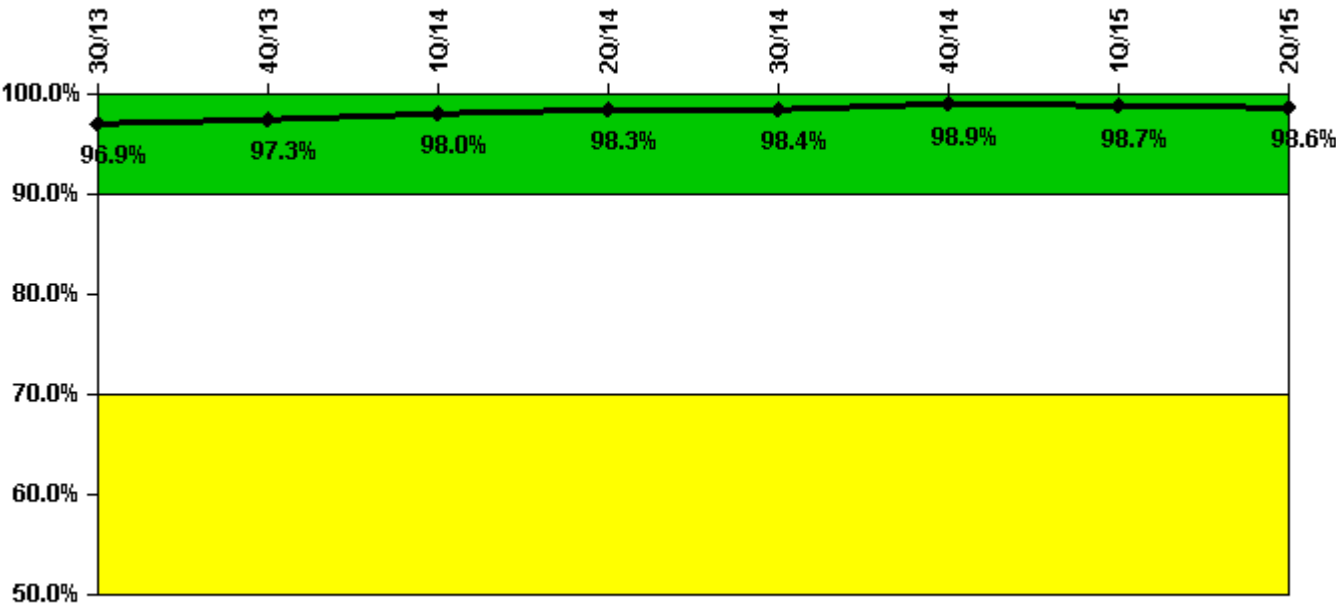
Notes

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	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0	0	0	0	0
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Leakage	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum leakage	0.001	0.001	0.001	0.003	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



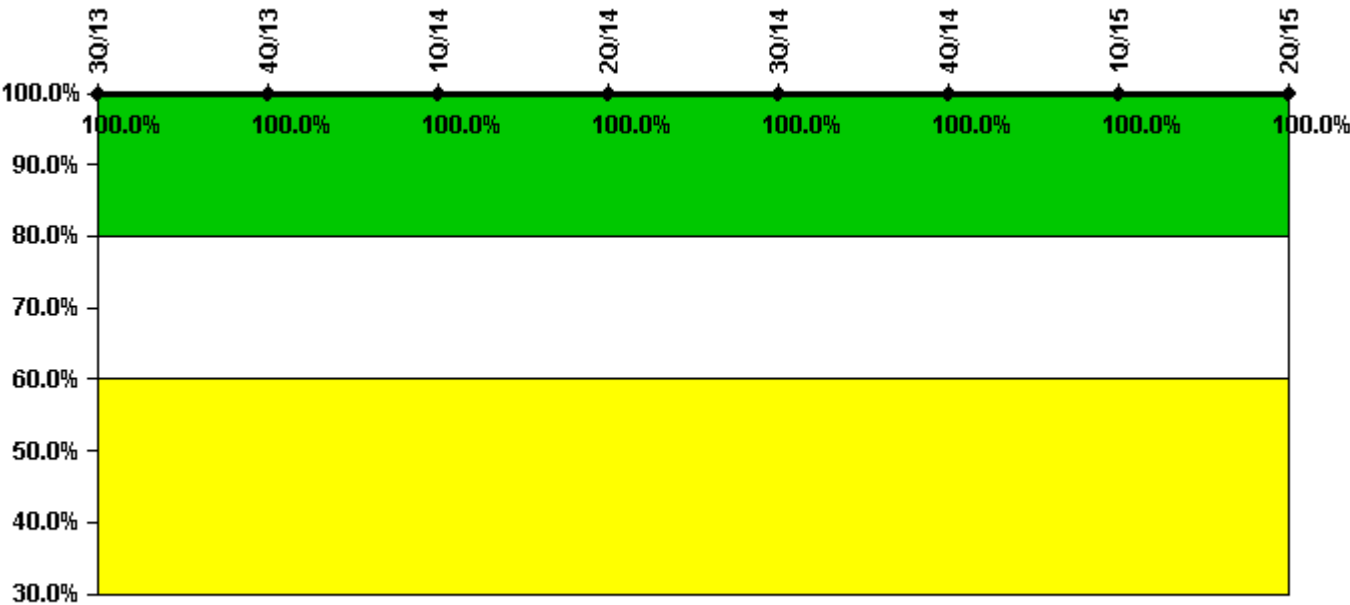
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful opportunities	82.0	44.0	32.0	66.0	19.0	30.0	80.0	57.0
Total opportunities	82.0	44.0	32.0	67.0	22.0	30.0	81.0	58.0
Indicator value	96.9%	97.3%	98.0%	98.3%	98.4%	98.9%	98.7%	98.6%

Licensee Comments: none

ERO Drill Participation



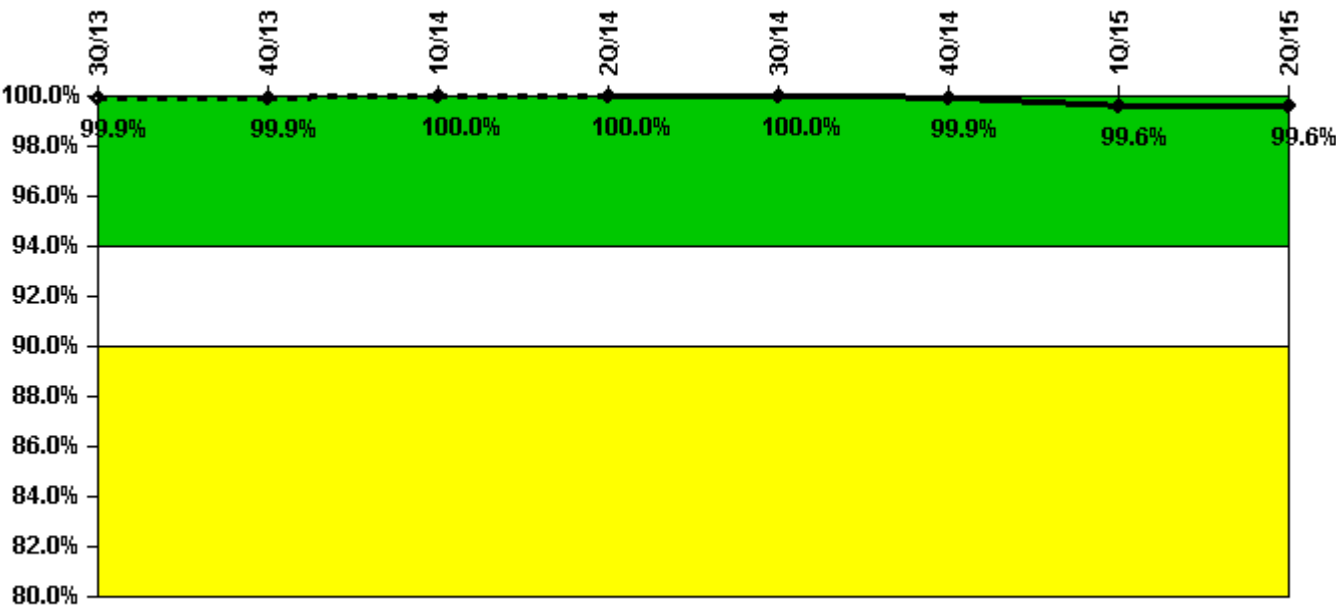
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Participating Key personnel	76.0	72.0	70.0	68.0	62.0	69.0	68.0	69.0
Total Key personnel	76.0	72.0	70.0	68.0	62.0	69.0	68.0	69.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



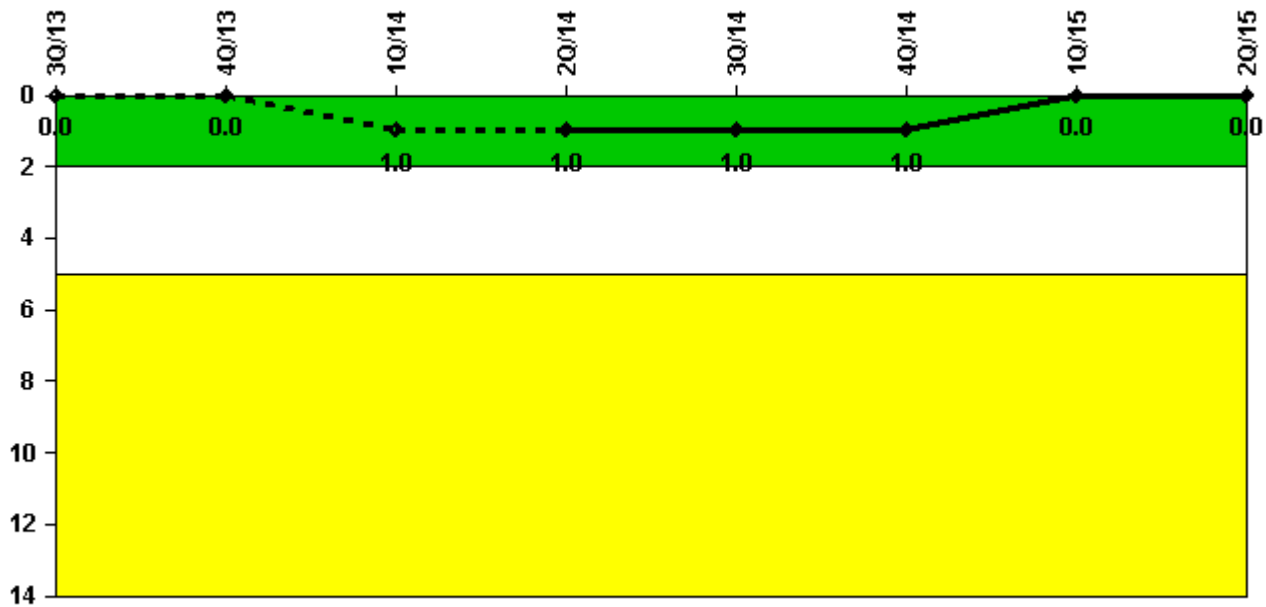
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful siren-tests	183	183	183	183	183	182	181	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.9%	99.9%	100.0%	100.0%	100.0%	99.9%	99.6%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness

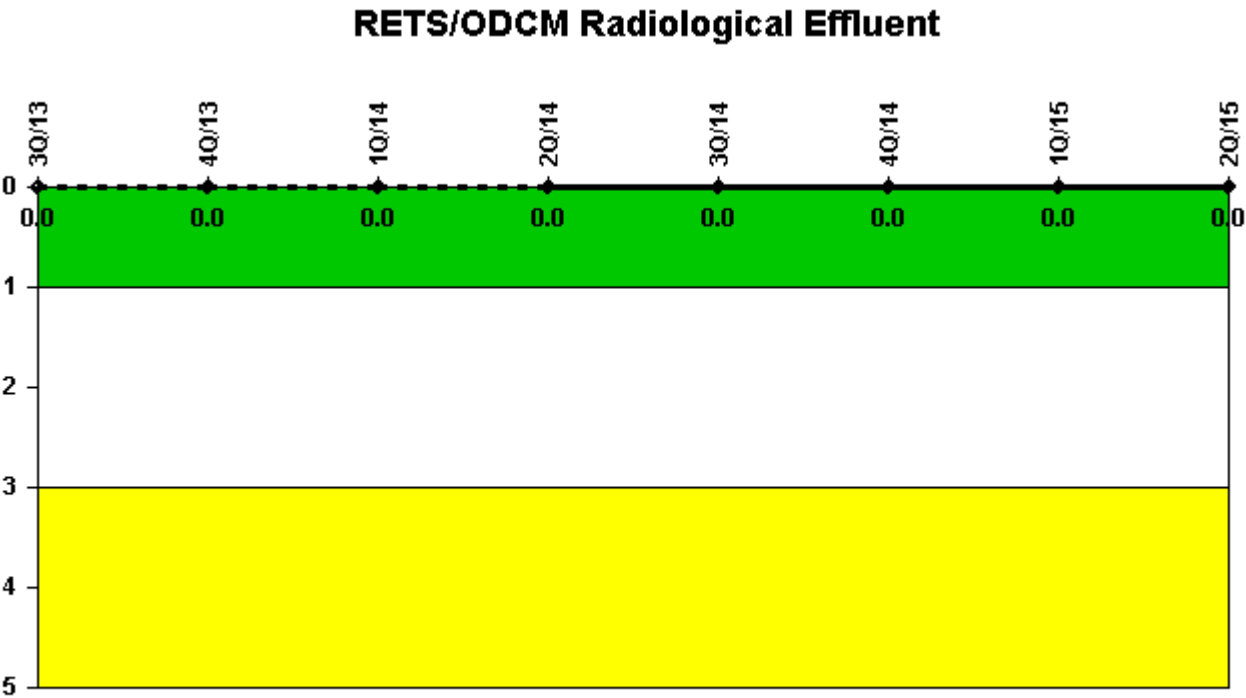


Thresholds: White > 2.0 Yellow > 5.0

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

Licensee Comments: none



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

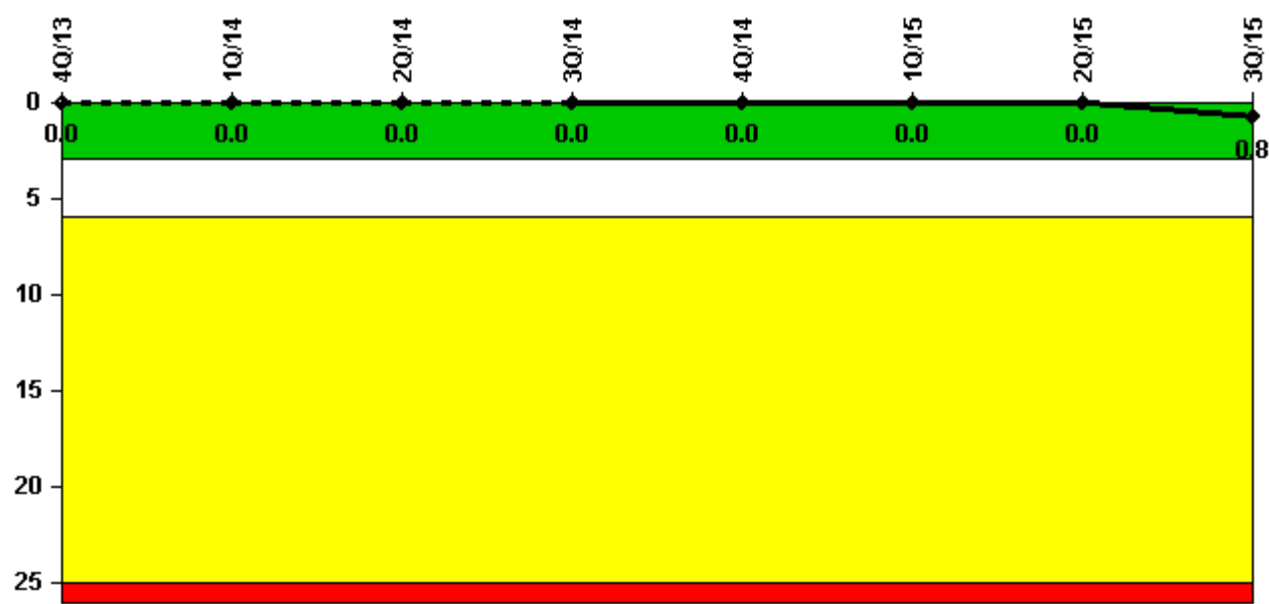
Palisades

3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



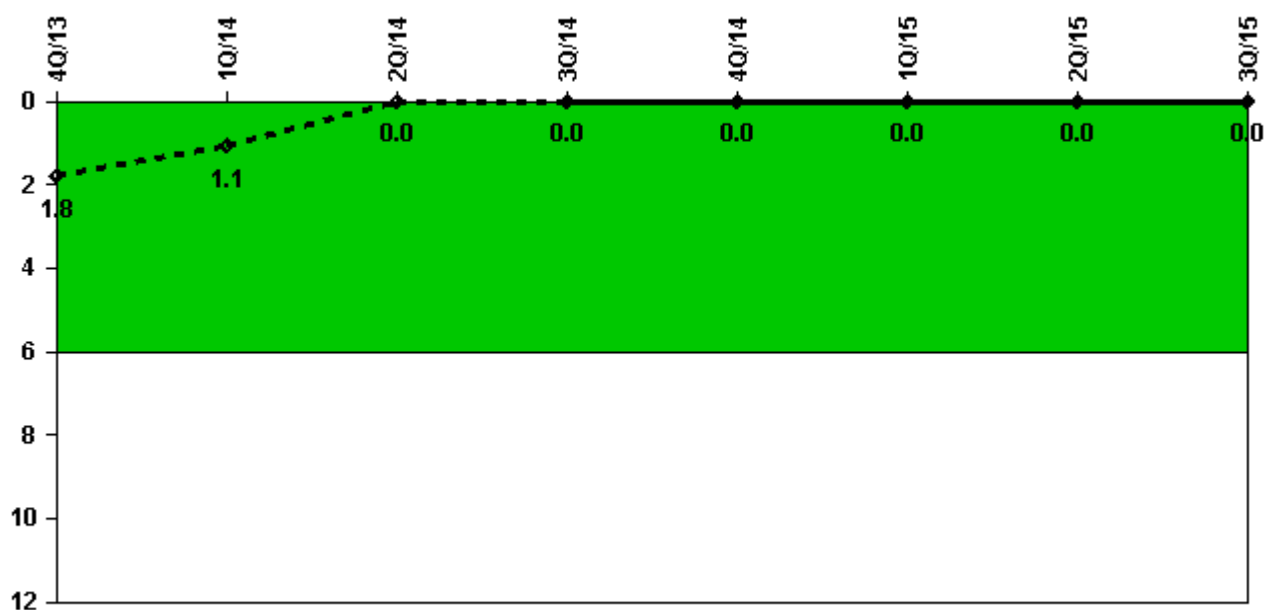
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	2209.0	839.1	2054.0	2208.0	2209.0	2159.0	2184.0	1849.3
Indicator value	0	0	0	0	0	0	0	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



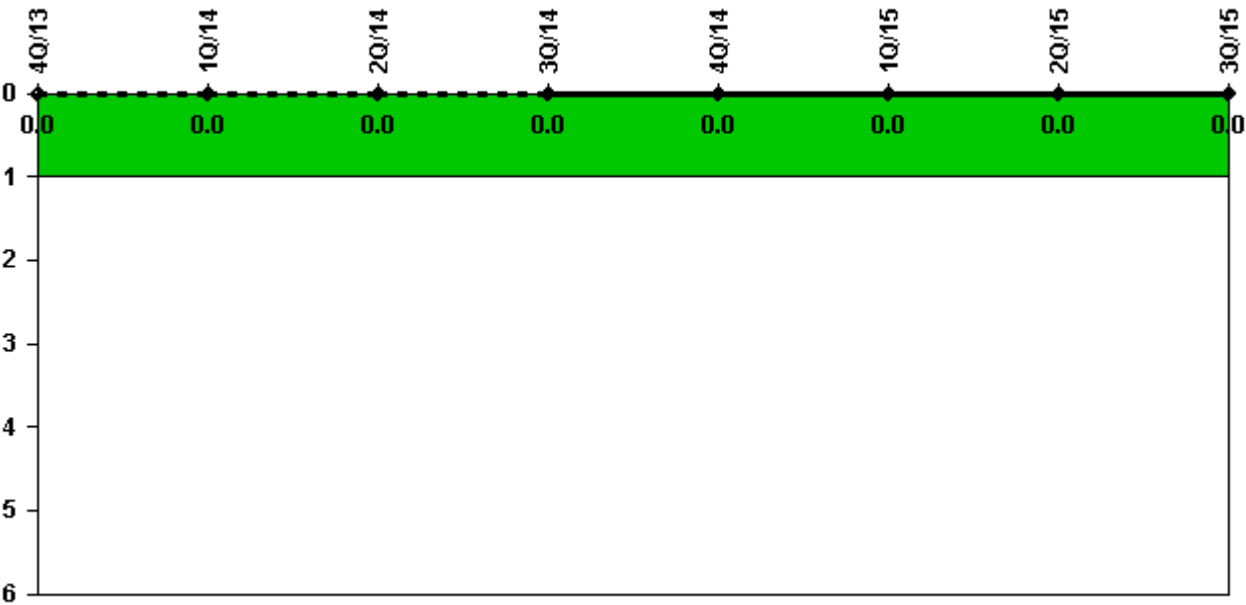
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	839.1	2054.0	2208.0	2209.0	2159.0	2184.0	1849.3
Indicator value	1.8	1.1	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



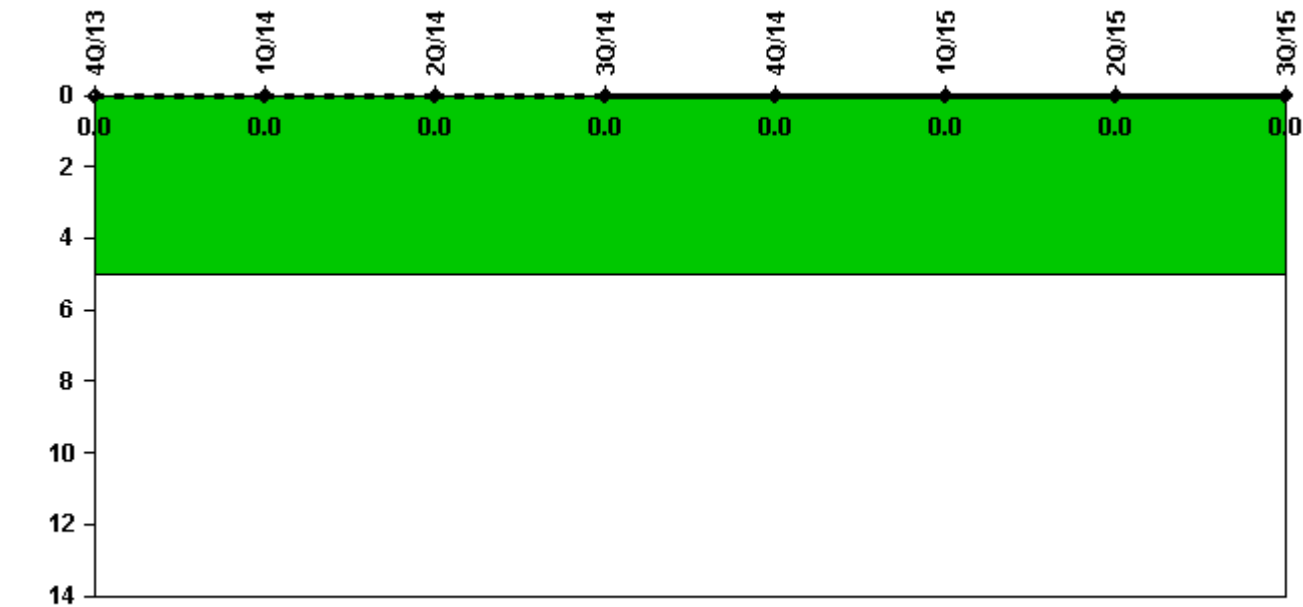
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



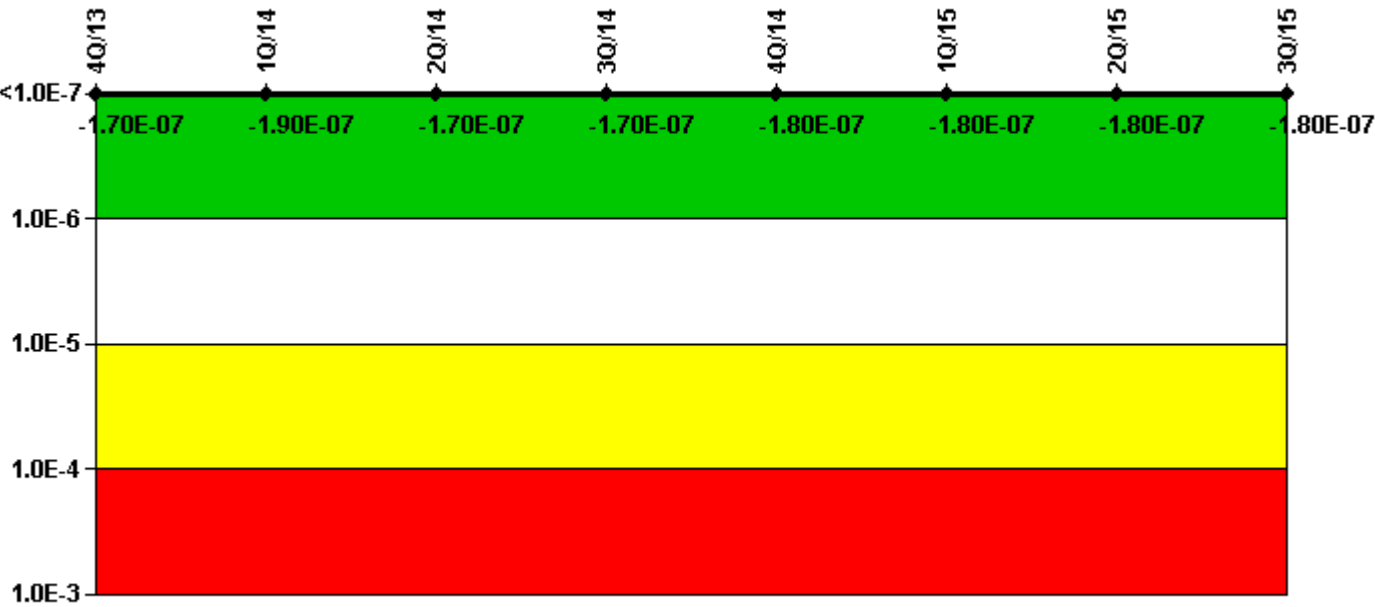
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



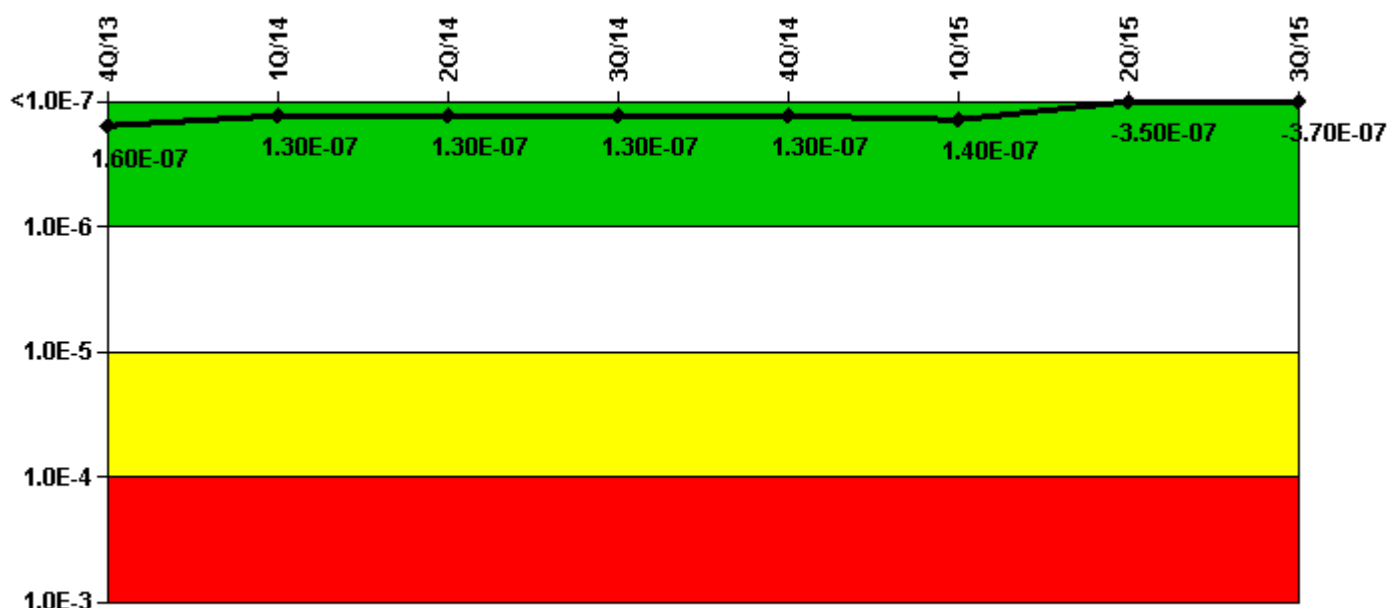
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (ΔCDF)	-1.14E-08	-2.73E-08	-1.08E-08	-1.24E-08	-1.75E-08	-1.79E-08	-2.02E-08	-2.11E-08
URI (ΔCDF)	-1.62E-07	-1.61E-07	-1.60E-07	-1.60E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	-1.90E-07	-1.70E-07	-1.70E-07	-1.80E-07	-1.80E-07	-1.80E-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	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	-6.99E-08	-1.06E-07	-1.06E-07	-1.06E-07	-1.06E-07	-9.92E-08	-8.21E-08	-1.06E-07
URI (Δ CDF)	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	-2.65E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.60E-07	1.30E-07	1.30E-07	1.30E-07	1.30E-07	1.40E-07	-3.50E-07	-3.70E-07

Licensee Comments:

3Q/15: Evaluation is pending on degradation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet identified in September 2015. (Reference CR-PLP-2015-04043)

1Q/15: Risk Cap Invoked.

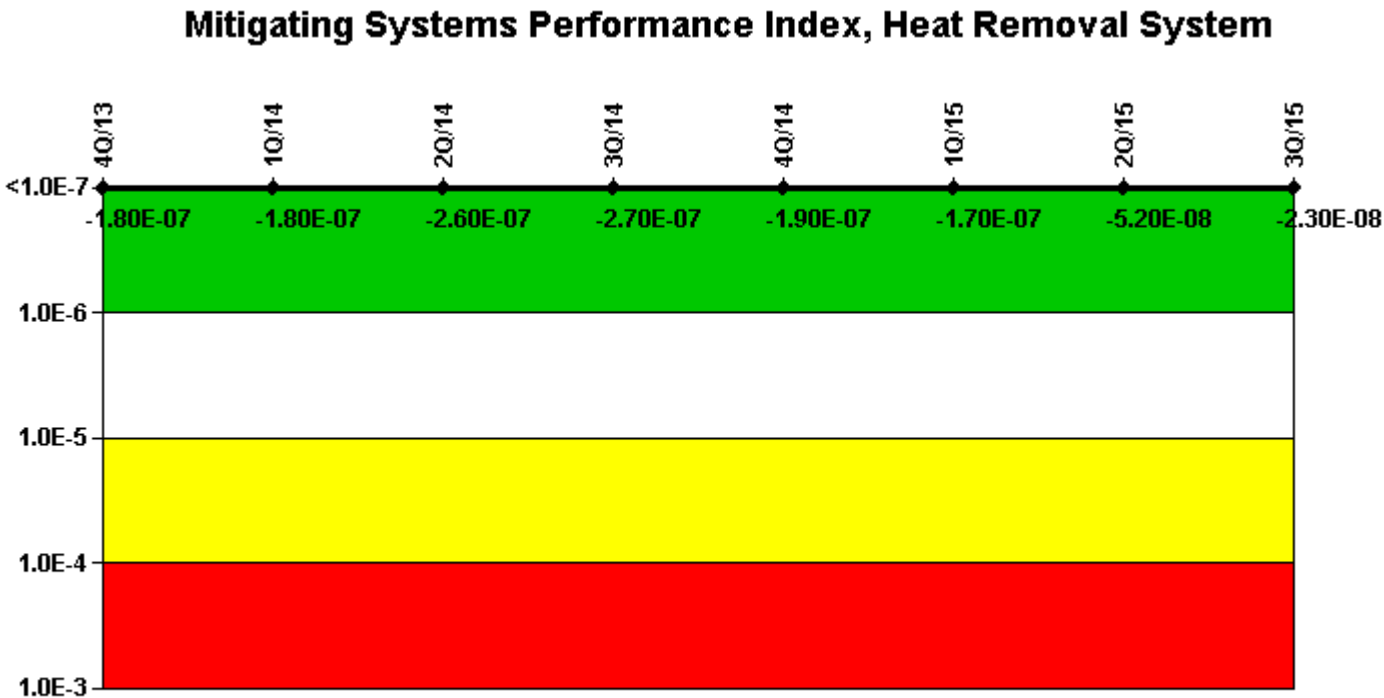
4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked.

2Q/14: Risk Cap Invoked.

1Q/14: Risk Cap Invoked.

4Q/13: Risk Cap Invoked.



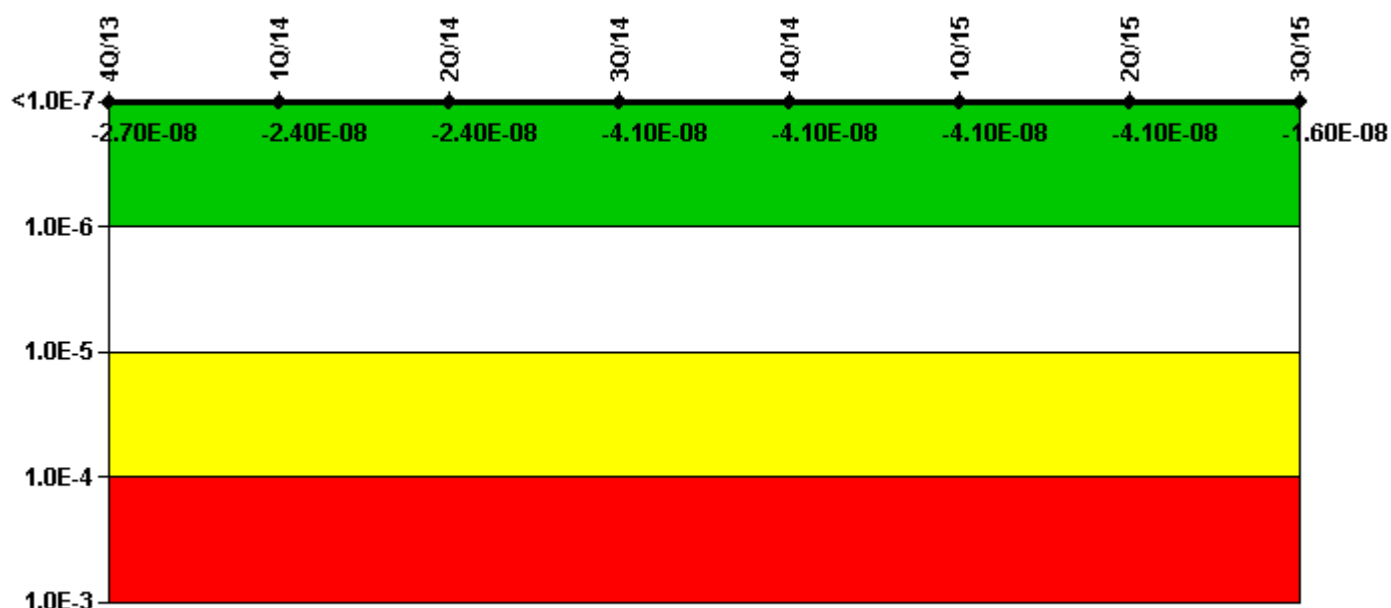
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (ΔCDF)	2.11E-08	1.60E-08	1.40E-08	1.19E-08	1.37E-08	3.38E-08	1.48E-07	1.77E-07
URI (ΔCDF)	-2.01E-07	-2.01E-07	-2.78E-07	-2.77E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.80E-07	-2.60E-07	-2.70E-07	-1.90E-07	-1.70E-07	-5.20E-08	-2.30E-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

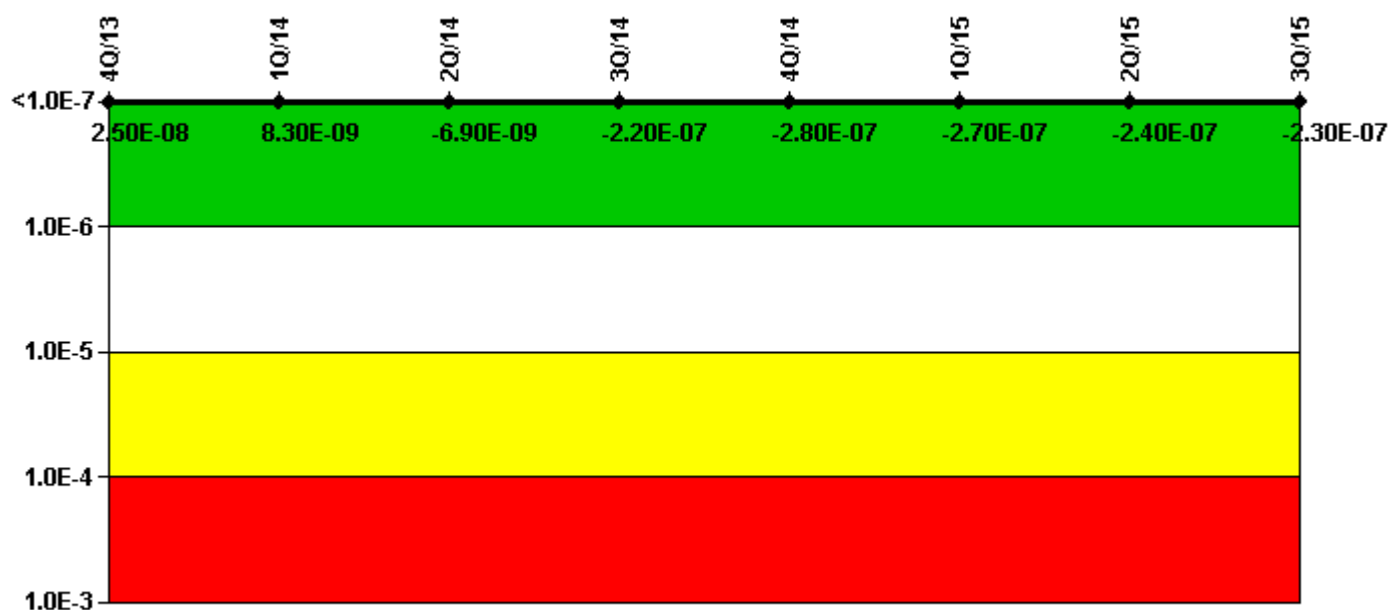
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	1.36E-08	1.62E-08	1.64E-08	-2.90E-10	-2.90E-10	-2.91E-10	-3.01E-10	2.48E-08
URI (Δ CDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.70E-08	-2.40E-08	-2.40E-08	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08	-1.60E-08

Licensee Comments:

3Q/15: Evaluation is pending on degradation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet identified in September 2015. (Reference CR-PLP-2015-04043)

Mitigating Systems Performance Index, Cooling Water Systems



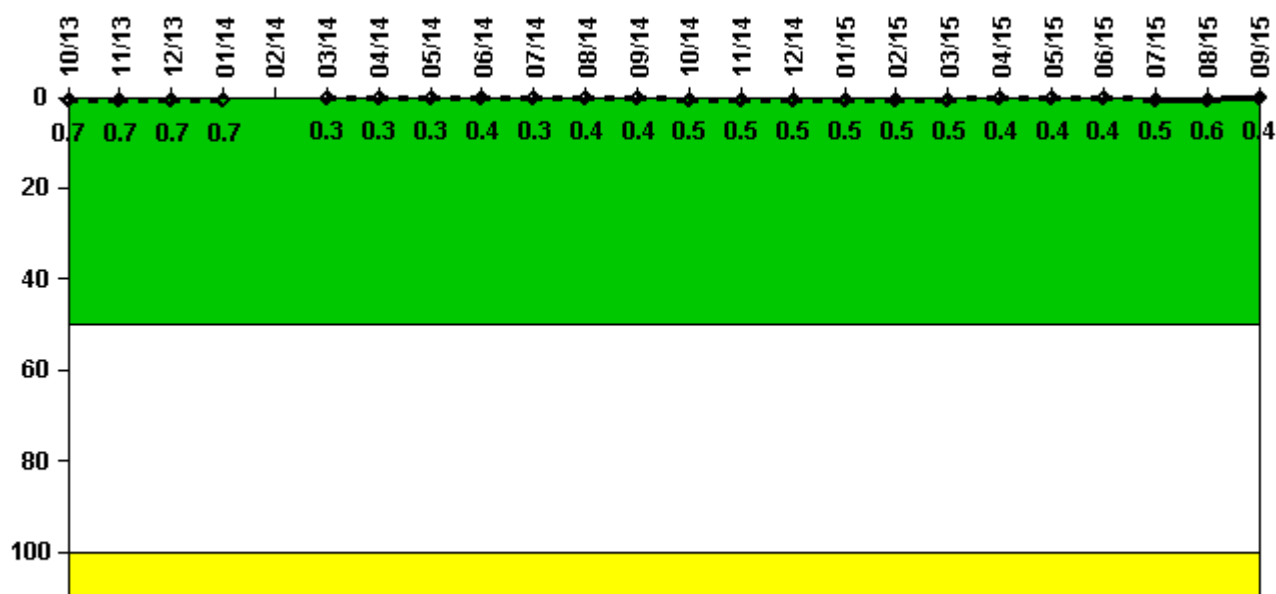
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	2.12E-07	1.95E-07	1.80E-07	1.47E-08	-5.15E-08	-3.68E-08	-9.34E-09	-1.86E-09
URI (Δ CDF)	-1.87E-07	-1.87E-07	-1.87E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.50E-08	8.30E-09	-6.90E-09	-2.20E-07	-2.80E-07	-2.70E-07	-2.40E-07	-2.30E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

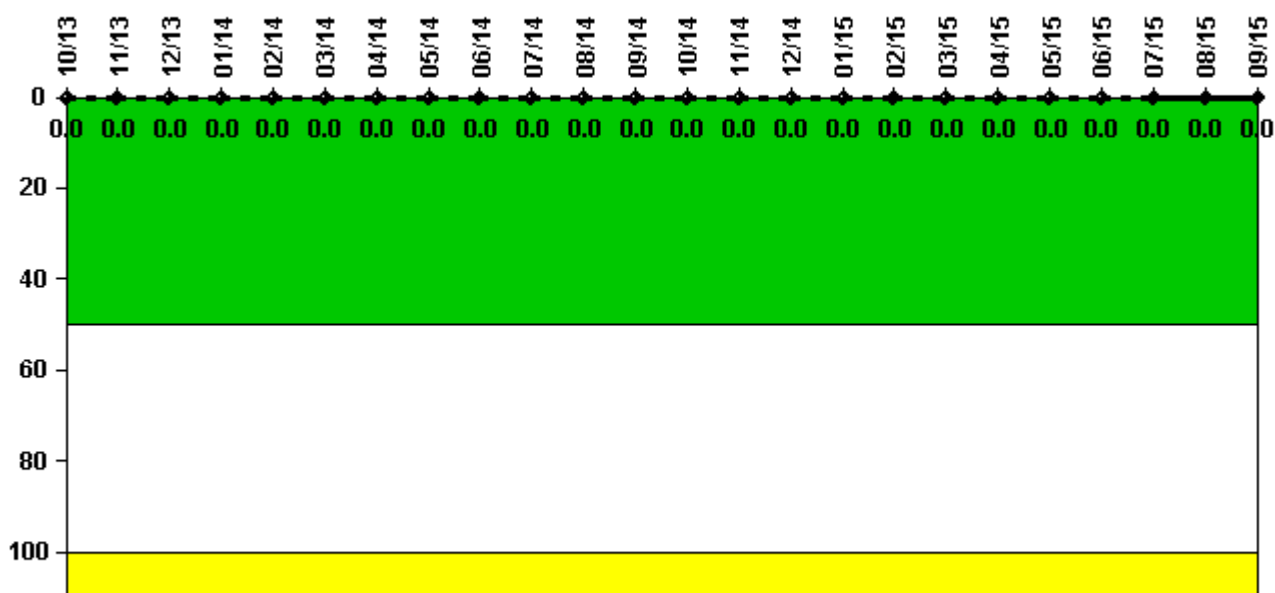
Notes

Reactor Coolant System Activity	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum activity	0.006720	0.006680	0.007040	0.007360	N/A	0.002890	0.002970	0.003430	0.003510	0.003460	0.004060	0.004240
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.7	0.7	0.7	0.7	N/A	0.3	0.3	0.3	0.4	0.3	0.4	0.4
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	0.004550	0.004540	0.004820	0.005160	0.005170	0.004910	0.004100	0.004450	0.004110	0.005340	0.005930	0.004120
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.6	0.4

Licensee Comments:

3/14: Refueling outage for Feb 2014; no sampling per INPO 04-004.

Reactor Coolant System Leakage



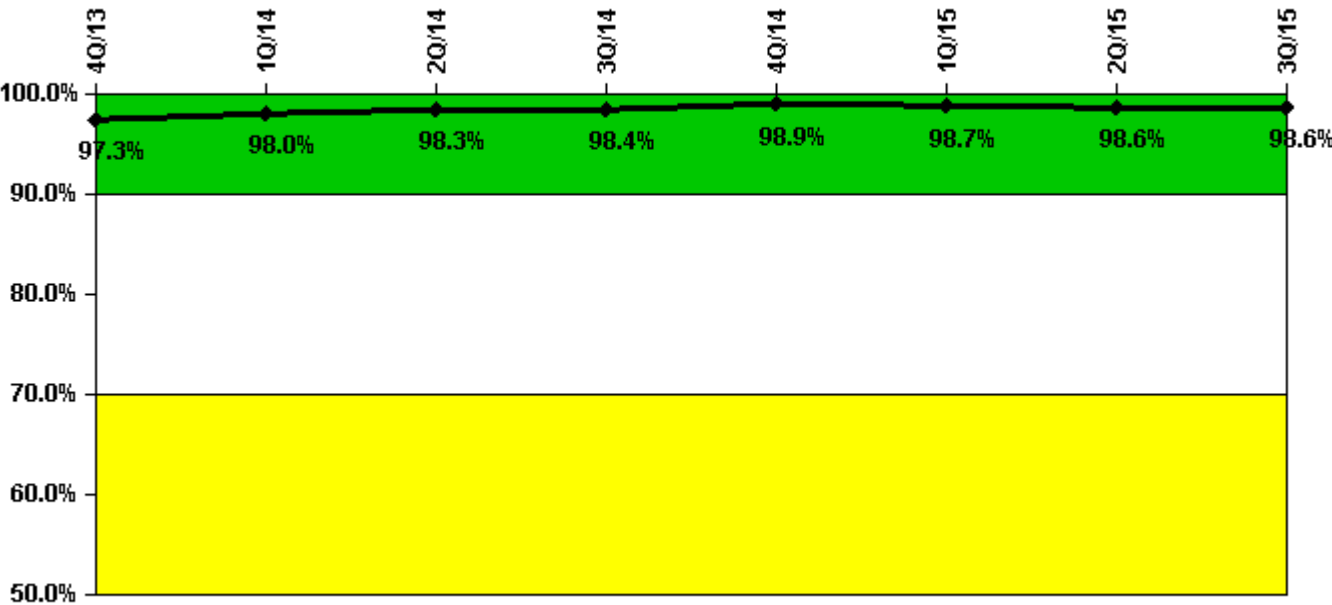
Thresholds: White > 50.0 Yellow > 100.0

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	0.001	0.001	0.001	0.001	0	0	0	0	0	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Leakage	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum leakage	0.003	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0	0	0	0
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



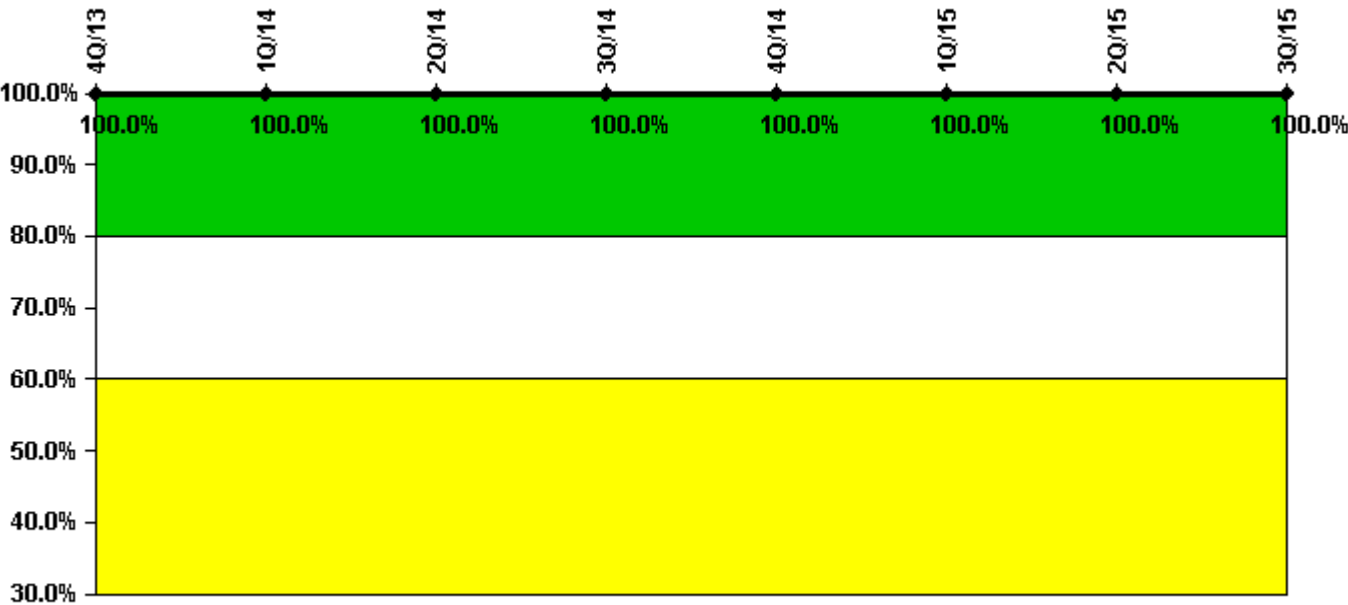
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful opportunities	44.0	32.0	66.0	19.0	30.0	80.0	57.0	98.0
Total opportunities	44.0	32.0	67.0	22.0	30.0	81.0	58.0	98.0
Indicator value	97.3%	98.0%	98.3%	98.4%	98.9%	98.7%	98.6%	98.6%

Licensee Comments: none

ERO Drill Participation



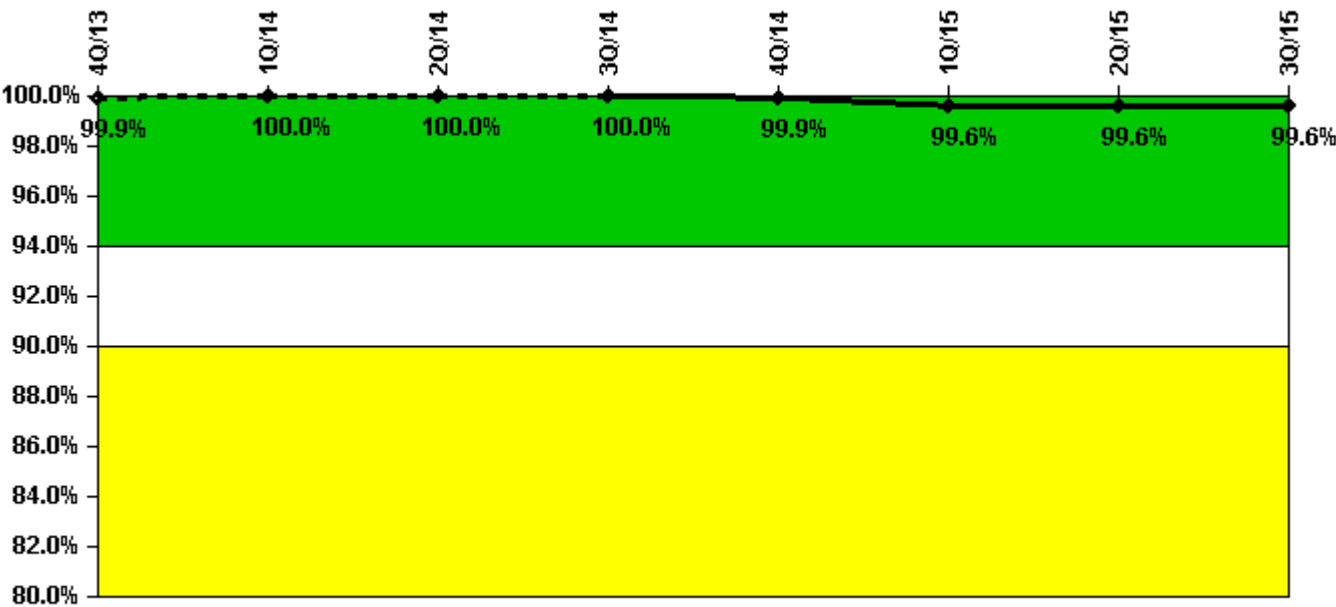
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Participating Key personnel	72.0	70.0	68.0	62.0	69.0	68.0	69.0	67.0
Total Key personnel	72.0	70.0	68.0	62.0	69.0	68.0	69.0	67.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



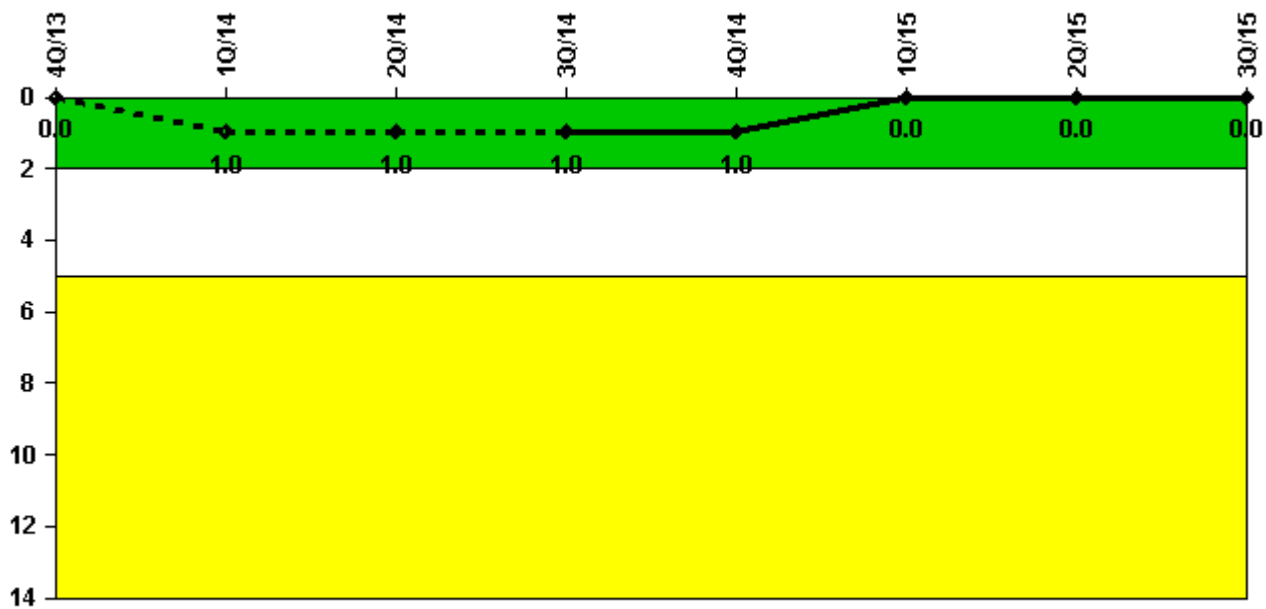
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful siren-tests	183	183	183	183	182	181	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.9%	100.0%	100.0%	100.0%	99.9%	99.6%	99.6%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness

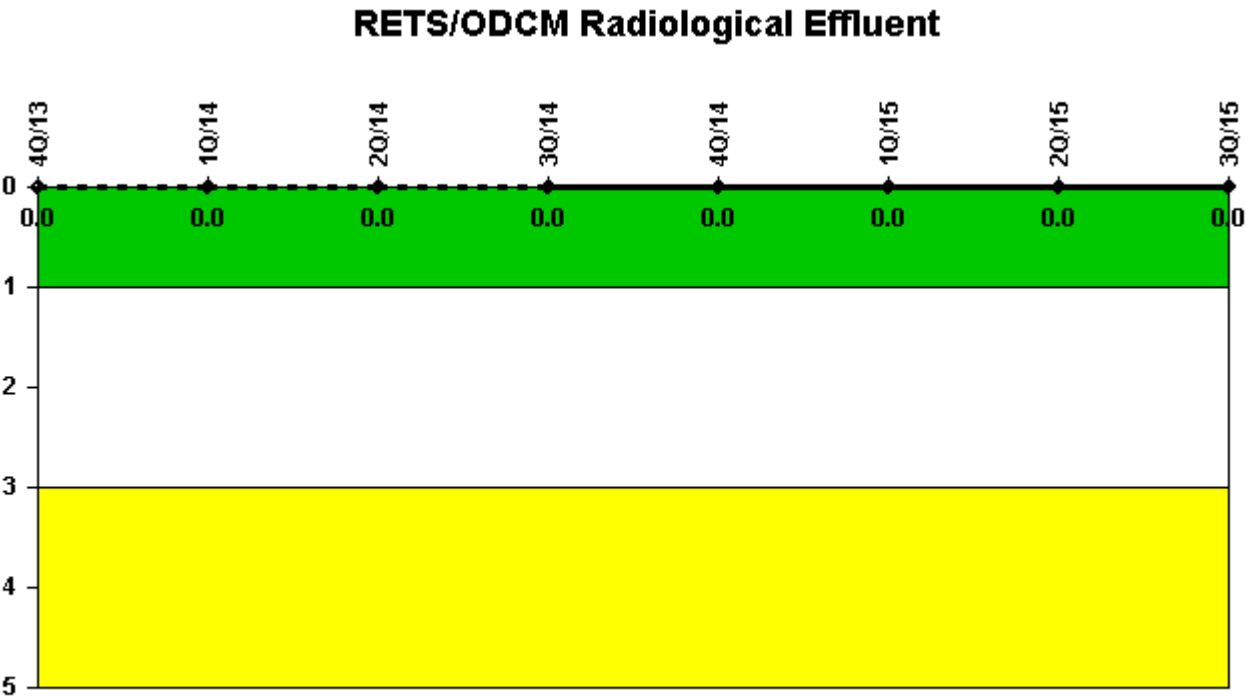


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
High radiation area occurrences	0	1	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	1	1	1	1	0	0	0

Licensee Comments: none



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

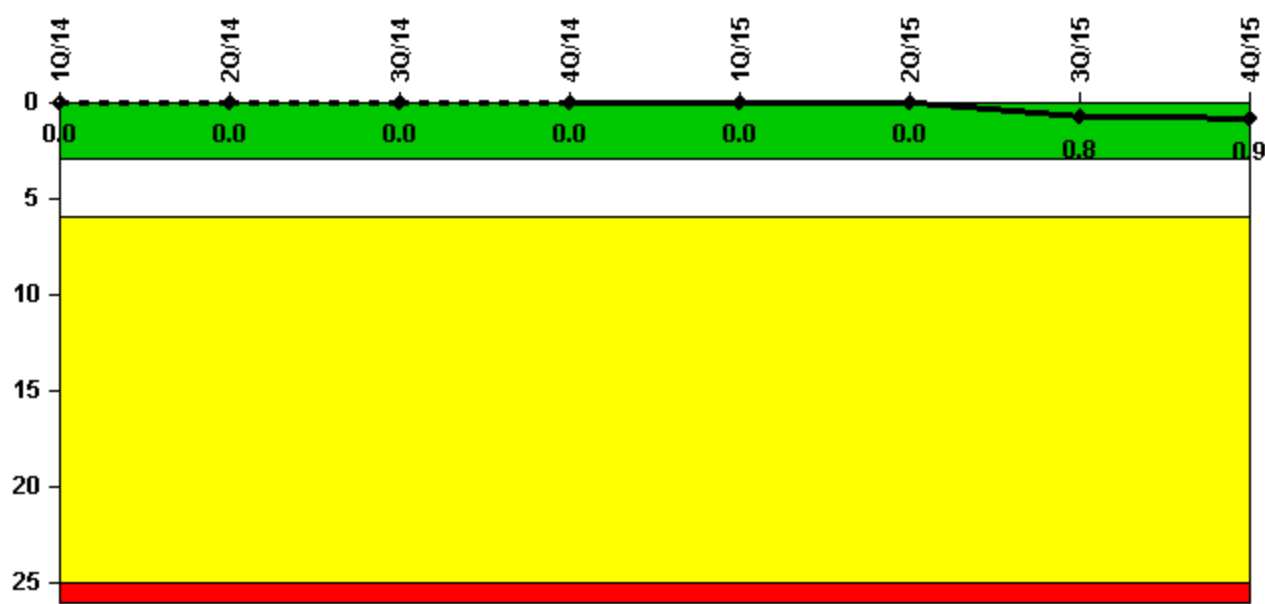
Palisades

4Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



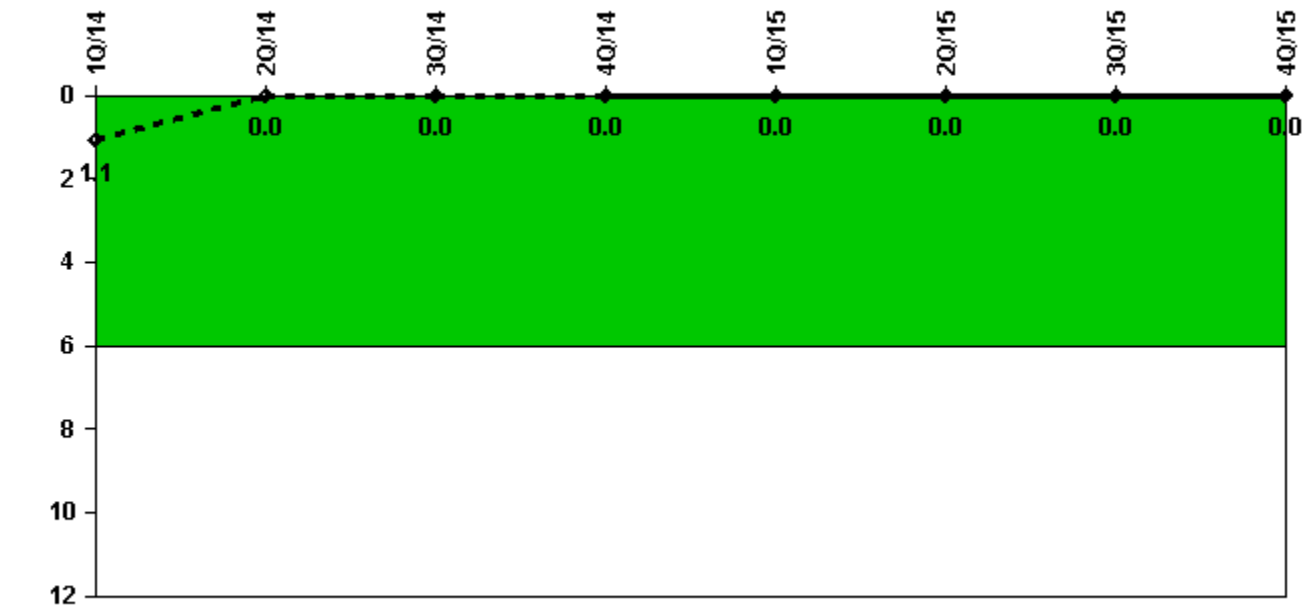
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	839.1	2054.0	2208.0	2209.0	2159.0	2184.0	1849.3	1771.8
Indicator value	0	0	0	0	0	0	0.8	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



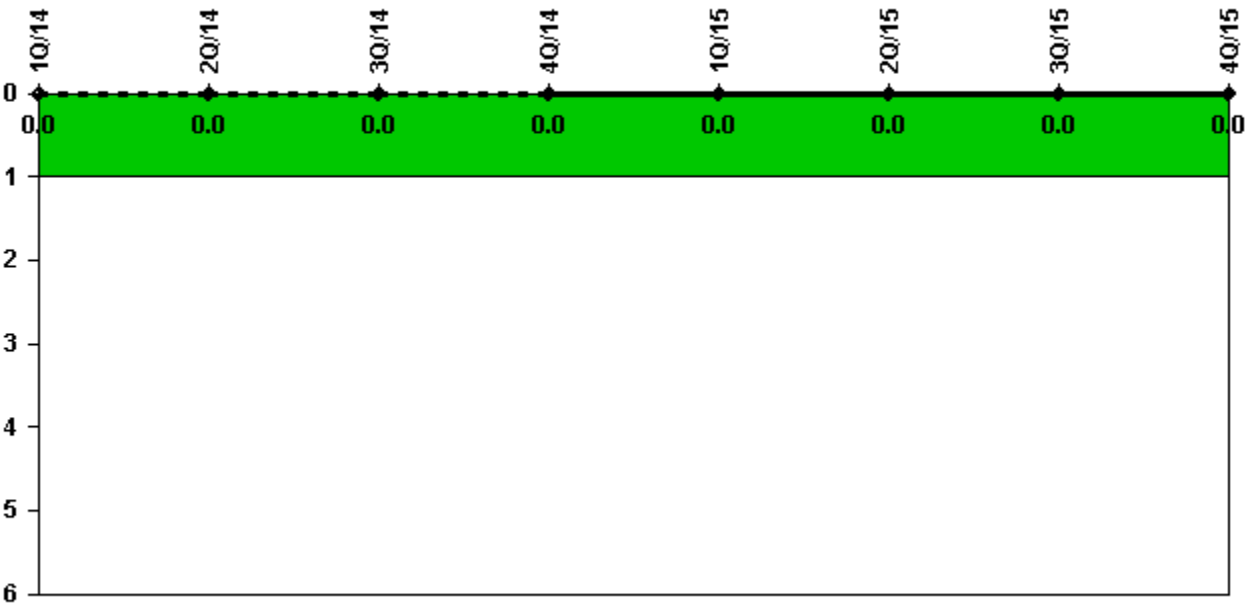
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	839.1	2054.0	2208.0	2209.0	2159.0	2184.0	1849.3	1771.8
Indicator value	1.1	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



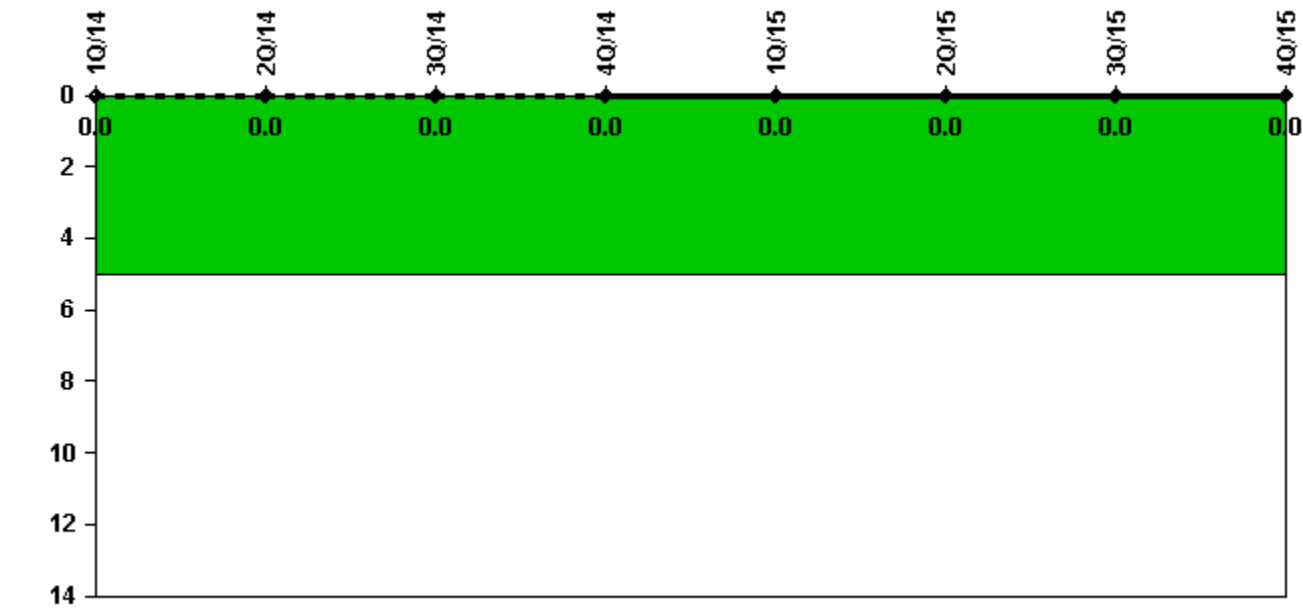
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



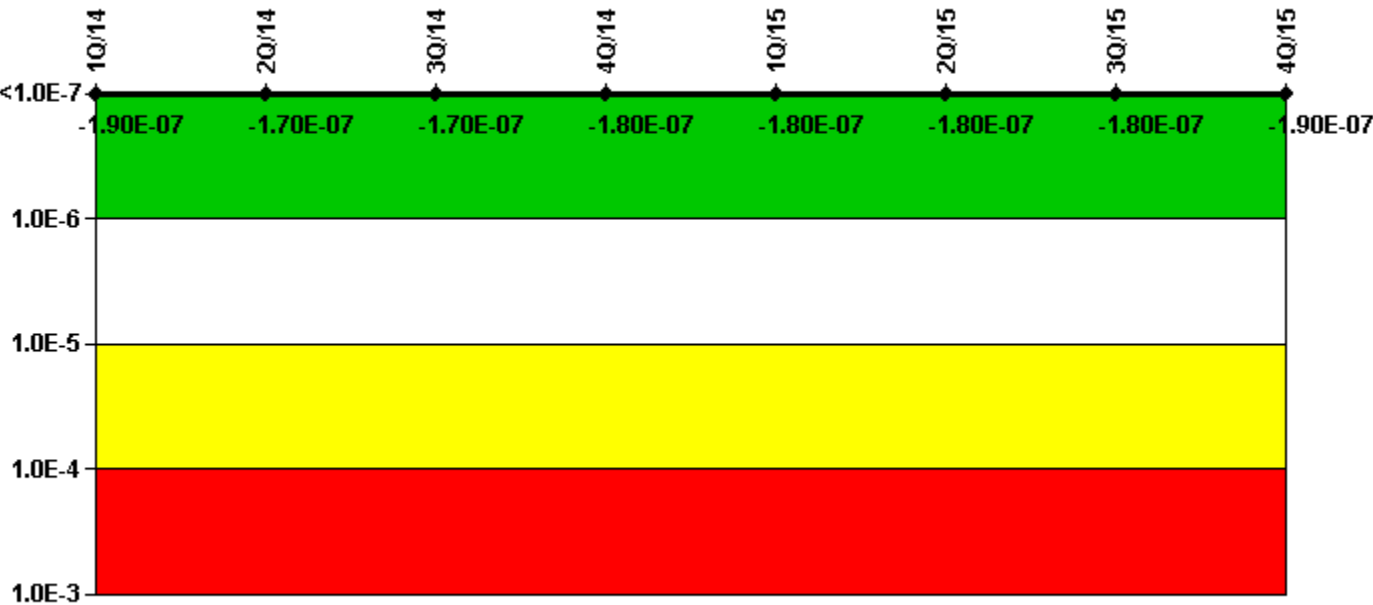
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Safety System Functional Failures	0	0	0	0	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



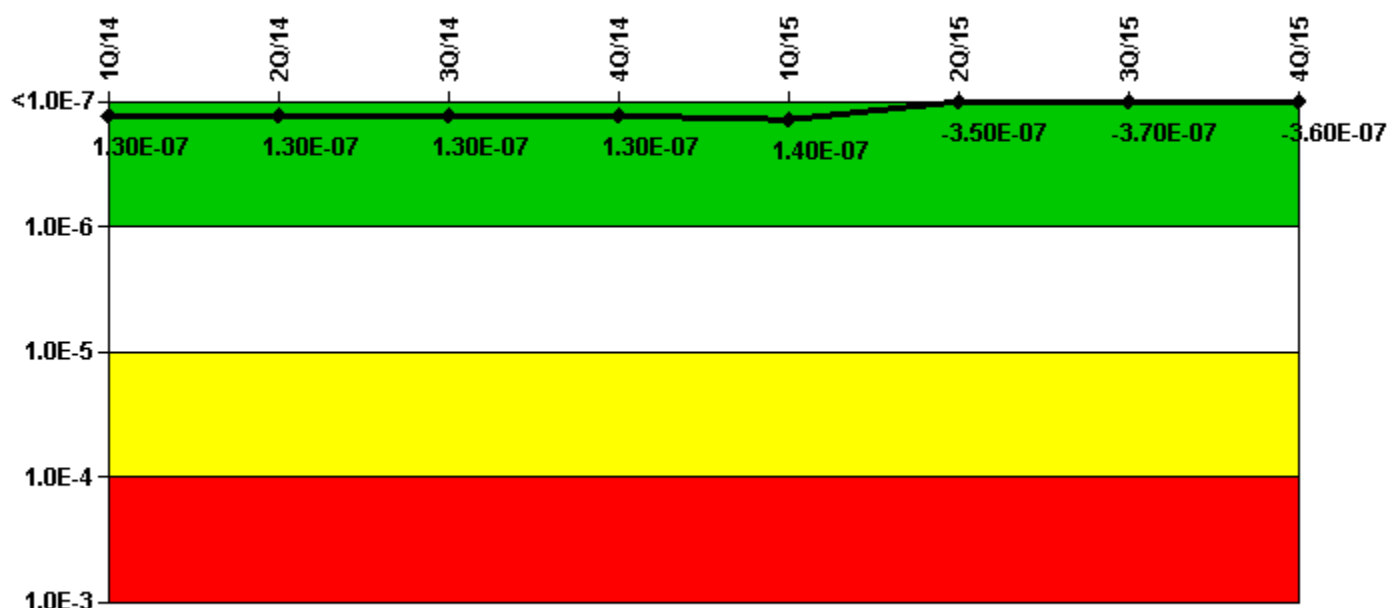
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (ΔCDF)	-2.73E-08	-1.08E-08	-1.24E-08	-1.75E-08	-1.79E-08	-2.02E-08	-2.11E-08	-2.73E-08
URI (ΔCDF)	-1.61E-07	-1.60E-07	-1.60E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-07	-1.70E-07	-1.70E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.90E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	-1.06E-07	-1.06E-07	-1.06E-07	-1.06E-07	-9.92E-08	-8.21E-08	-1.06E-07	-9.31E-08
URI (Δ CDF)	2.35E-07	2.35E-07	2.35E-07	2.35E-07	2.35E-07	-2.65E-07	-2.65E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.30E-07	1.30E-07	1.30E-07	1.30E-07	1.40E-07	-3.50E-07	-3.70E-07	-3.60E-07

Licensee Comments:

4Q/15: Evaluation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet degradation from September 2015 concluded No MPSI Failure occurred. (Reference CR-PLP-2015-04043)

3Q/15: Evaluation is pending on degradation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet identified in September 2015. (Reference CR-PLP-2015-04043)

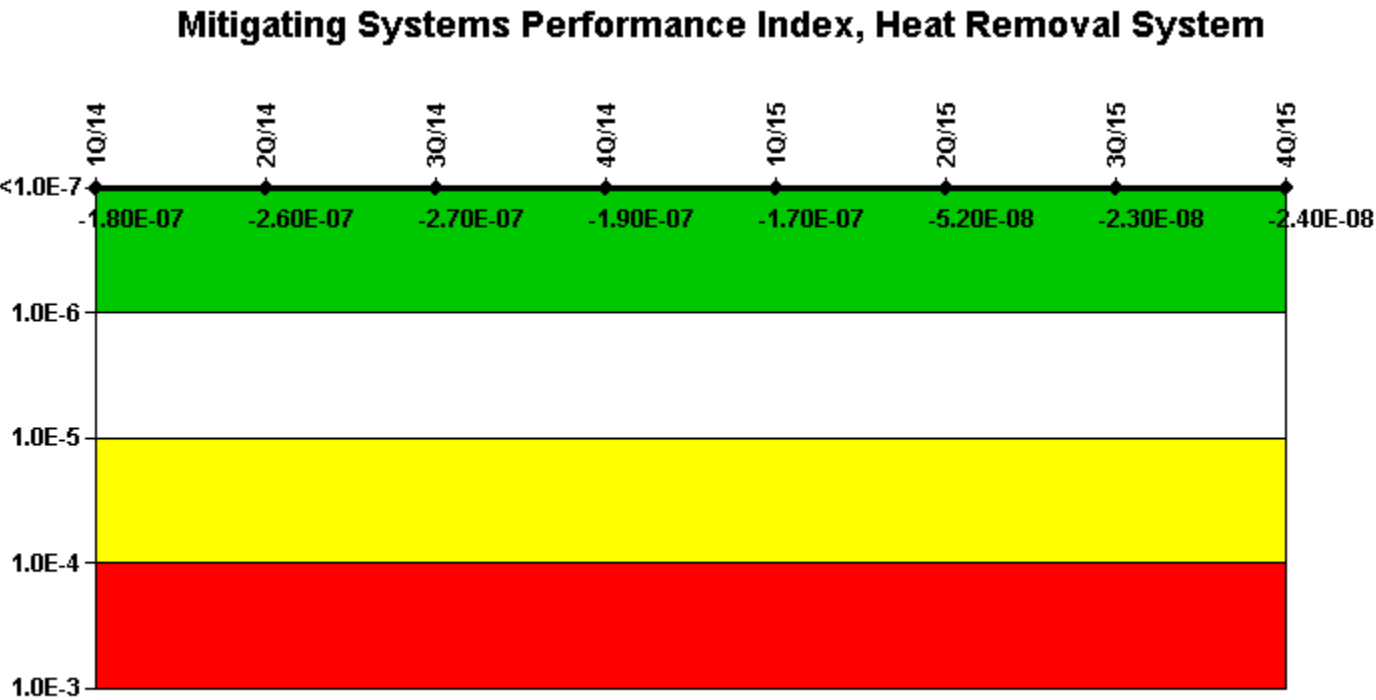
1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked.

2Q/14: Risk Cap Invoked.

1Q/14: Risk Cap Invoked.



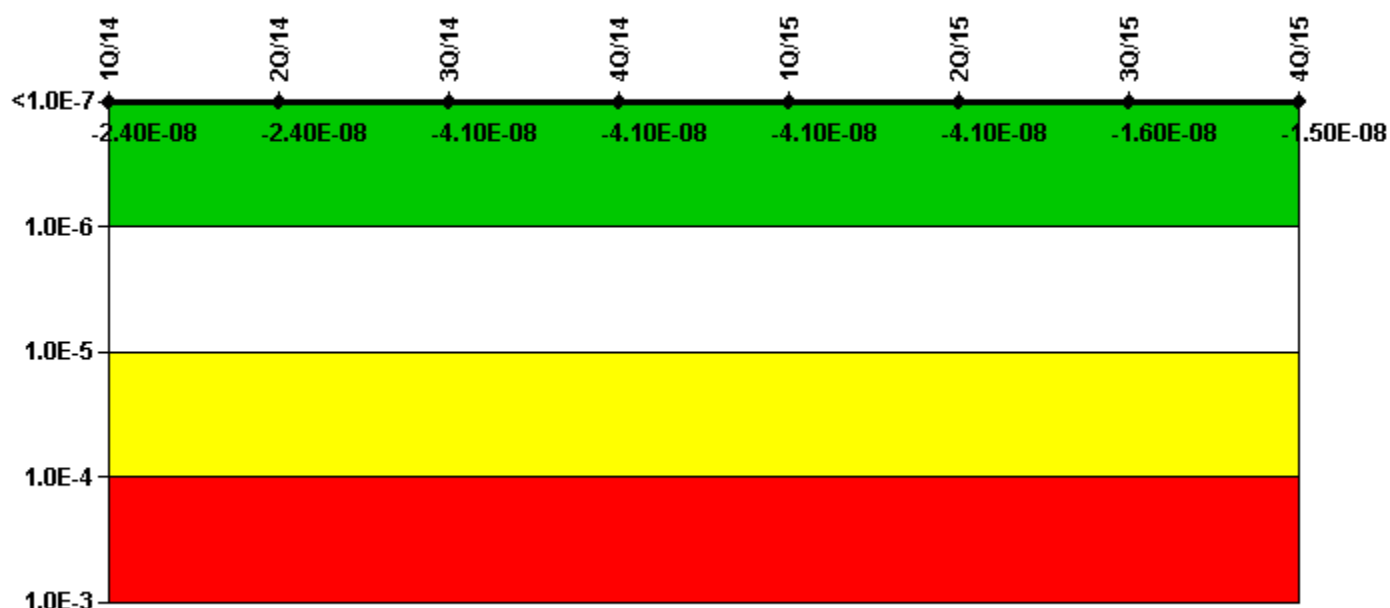
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (ΔCDF)	1.60E-08	1.40E-08	1.19E-08	1.37E-08	3.38E-08	1.48E-07	1.77E-07	1.76E-07
URI (ΔCDF)	-2.01E-07	-2.78E-07	-2.77E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-2.60E-07	-2.70E-07	-1.90E-07	-1.70E-07	-5.20E-08	-2.30E-08	-2.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

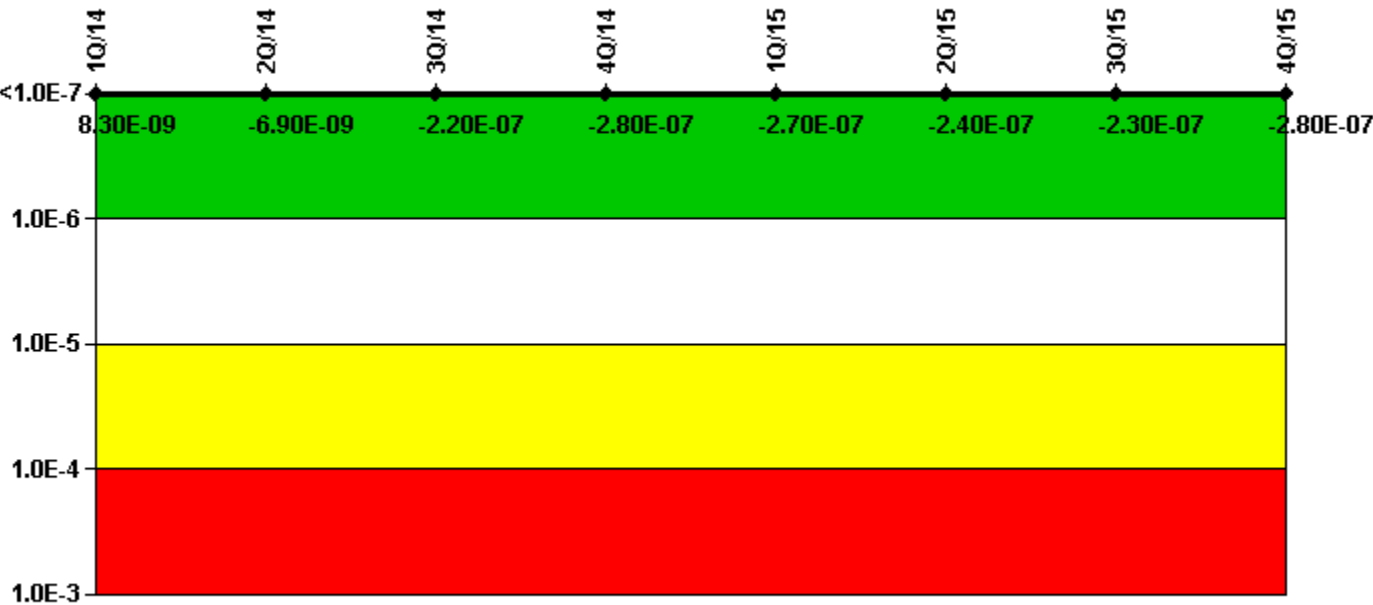
Mitigating Systems Performance Index, Residual Heat Removal System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	1.62E-08	1.64E-08	-2.90E-10	-2.90E-10	-2.91E-10	-3.01E-10	2.48E-08	2.52E-08
URI (Δ CDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-08	-2.40E-08	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08	-1.60E-08	-1.50E-08

Licensee Comments:

4Q/15: Evaluation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet degradation from September 2015 concluded No MPSI Failure occurred. (Reference CR-PLP-2015-04043)

3Q/15: Evaluation is pending on degradation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet identified in September 2015. (Reference CR-PLP-2015-04043)

Mitigating Systems Performance Index, Cooling Water Systems



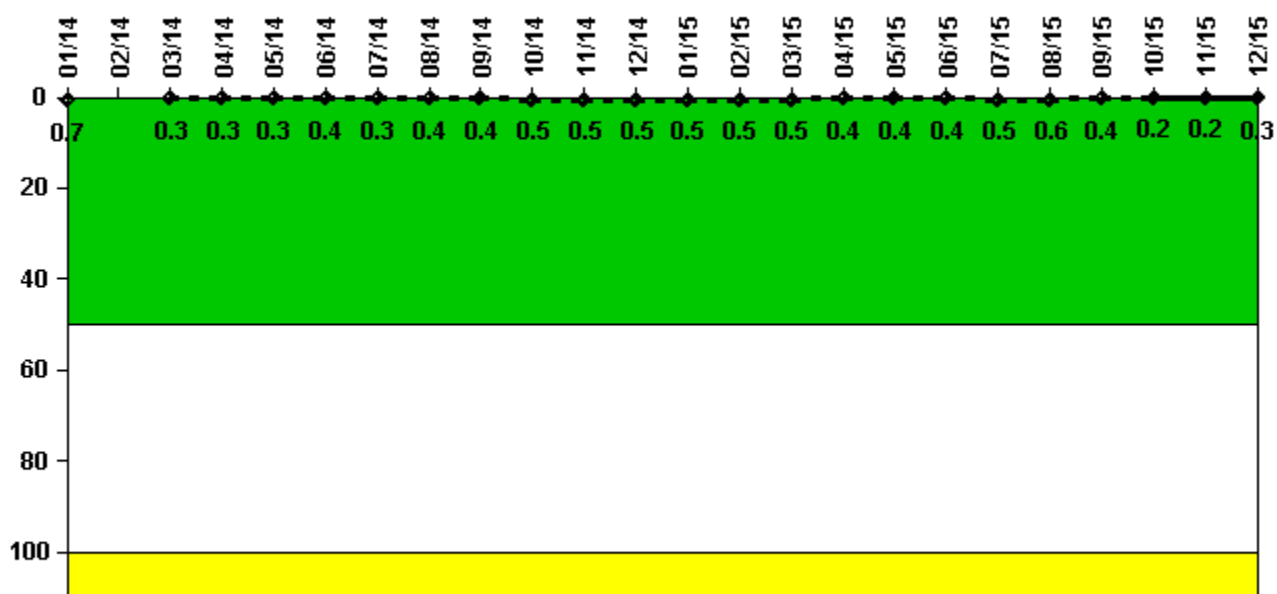
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (ΔCDF)	1.95E-07	1.80E-07	1.47E-08	-5.15E-08	-3.68E-08	-9.34E-09	-1.86E-09	-4.99E-08
URI (ΔCDF)	-1.87E-07	-1.87E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.30E-09	-6.90E-09	-2.20E-07	-2.80E-07	-2.70E-07	-2.40E-07	-2.30E-07	-2.80E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

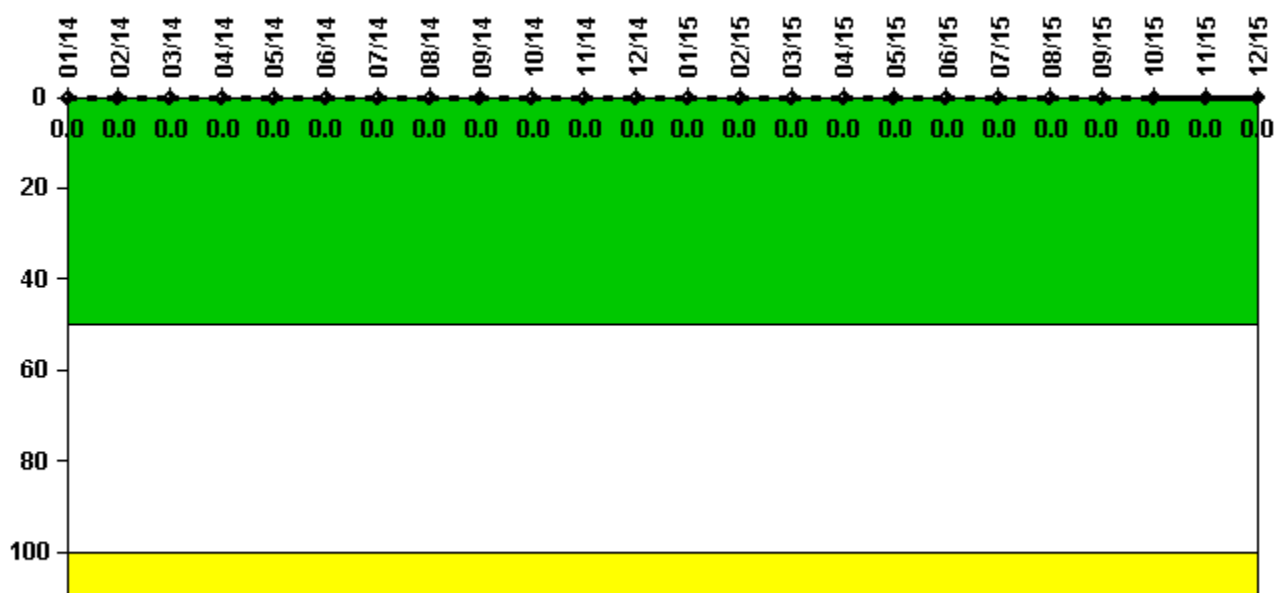
Notes

Reactor Coolant System Activity	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum activity	0.007360	N/A	0.002890	0.002970	0.003430	0.003510	0.003460	0.004060	0.004240	0.004550	0.004540	0.004820
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.7	N/A	0.3	0.3	0.3	0.4	0.3	0.4	0.4	0.5	0.5	0.5
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	0.005160	0.005170	0.004910	0.004100	0.004450	0.004110	0.005340	0.005930	0.004120	0.001920	0.002100	0.002710
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.6	0.4	0.2	0.2	0.3

Licensee Comments:

3/14: Refueling outage for Feb 2014; no sampling per INPO 04-004.

Reactor Coolant System Leakage



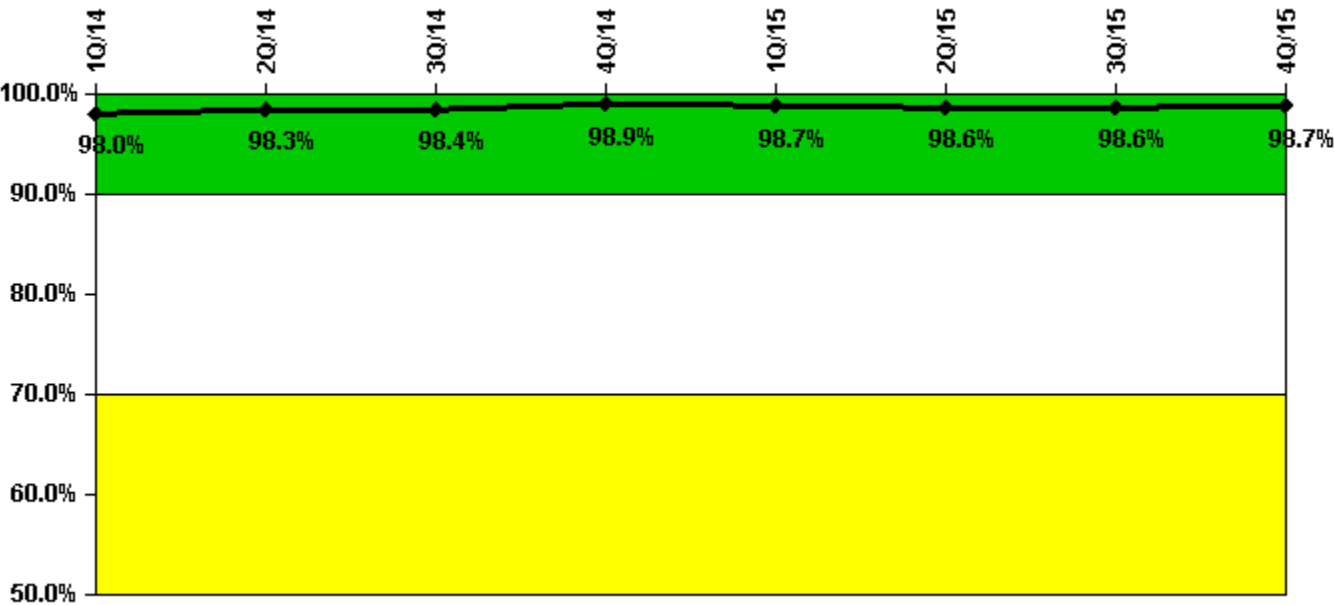
Thresholds: White > 50.0 Yellow > 100.0

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	0.001	0	0	0	0	0	0.001	0.001	0.001	0.003	0.003	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Leakage	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	0.001	0.001	0.001	0.001	0.001	0	0	0	0	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



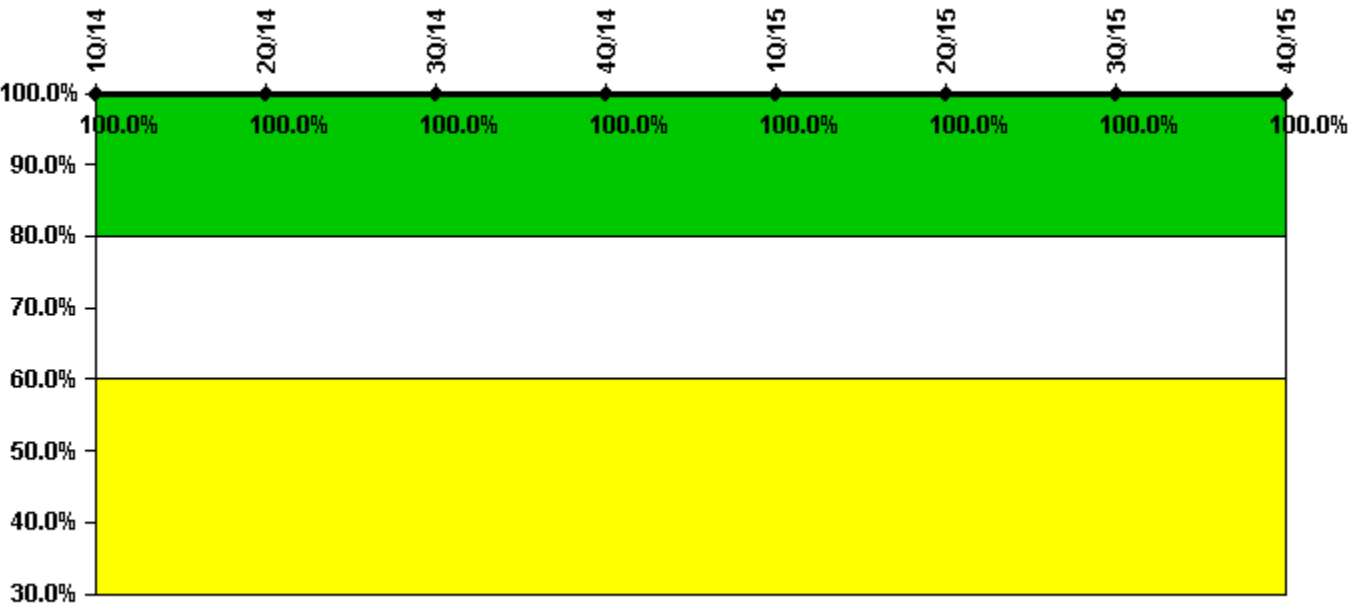
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful opportunities	32.0	66.0	19.0	30.0	80.0	57.0	98.0	66.0
Total opportunities	32.0	67.0	22.0	30.0	81.0	58.0	98.0	66.0
Indicator value	98.0%	98.3%	98.4%	98.9%	98.7%	98.6%	98.6%	98.7%

Licensee Comments: none

ERO Drill Participation



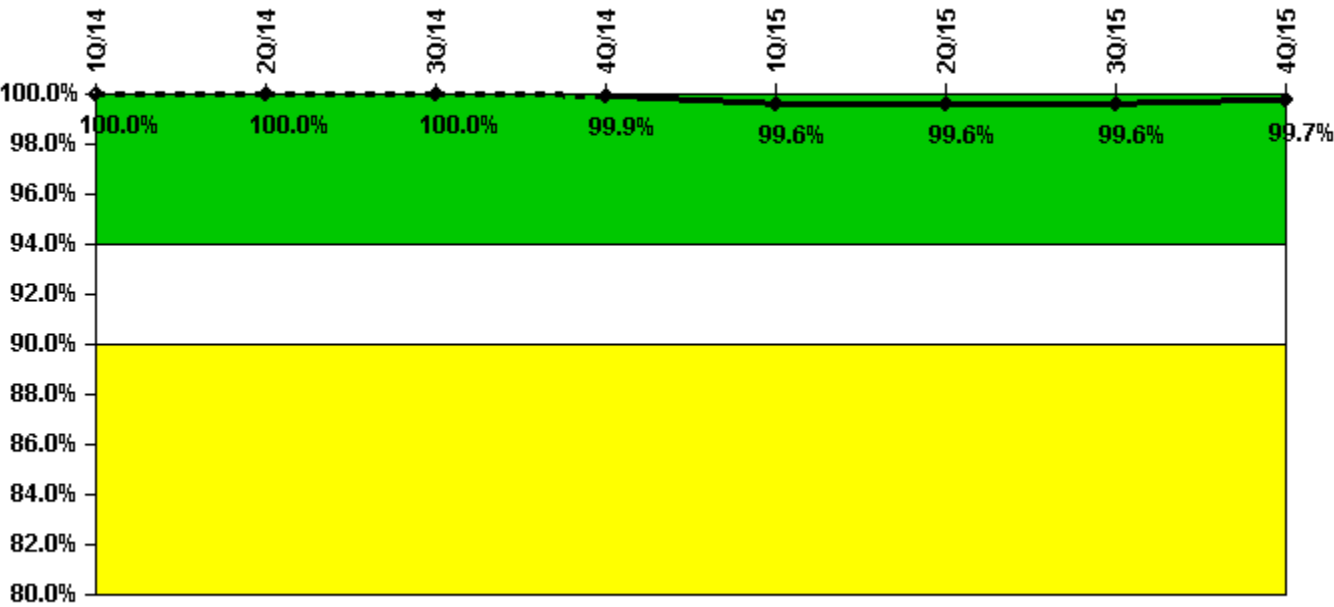
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Participating Key personnel	70.0	68.0	62.0	69.0	68.0	69.0	67.0	68.0
Total Key personnel	70.0	68.0	62.0	69.0	68.0	69.0	67.0	68.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



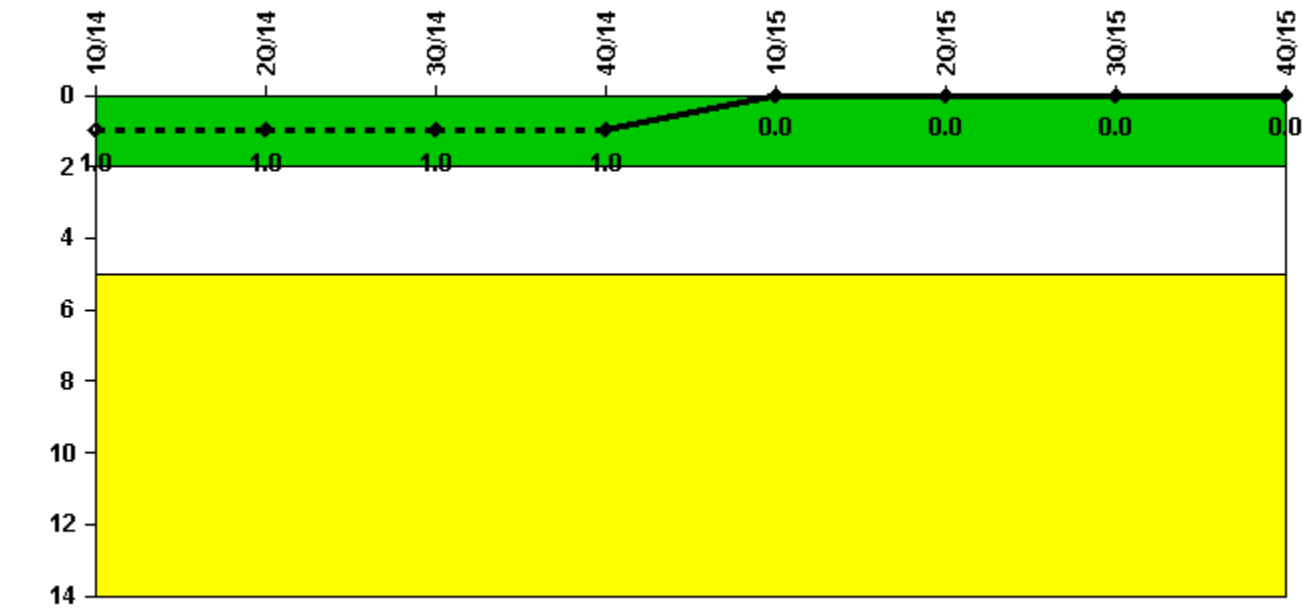
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful siren-tests	183	183	183	182	181	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	100.0%	100.0%	100.0%	99.9%	99.6%	99.6%	99.6%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



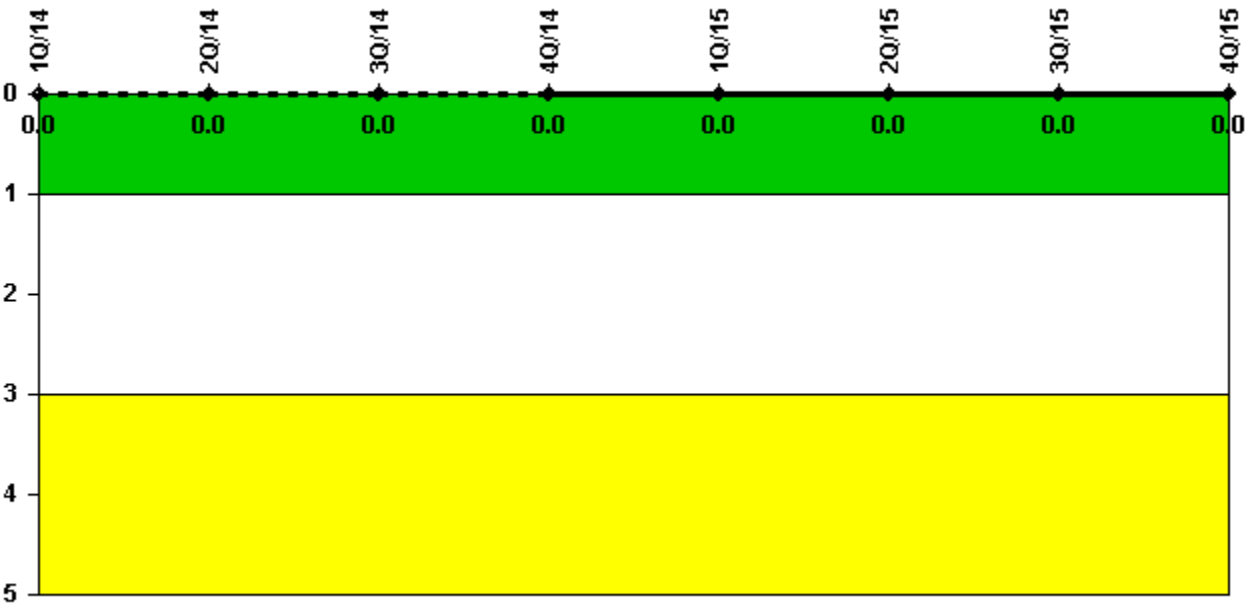
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
High radiation area occurrences	1	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	1	1	1	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/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

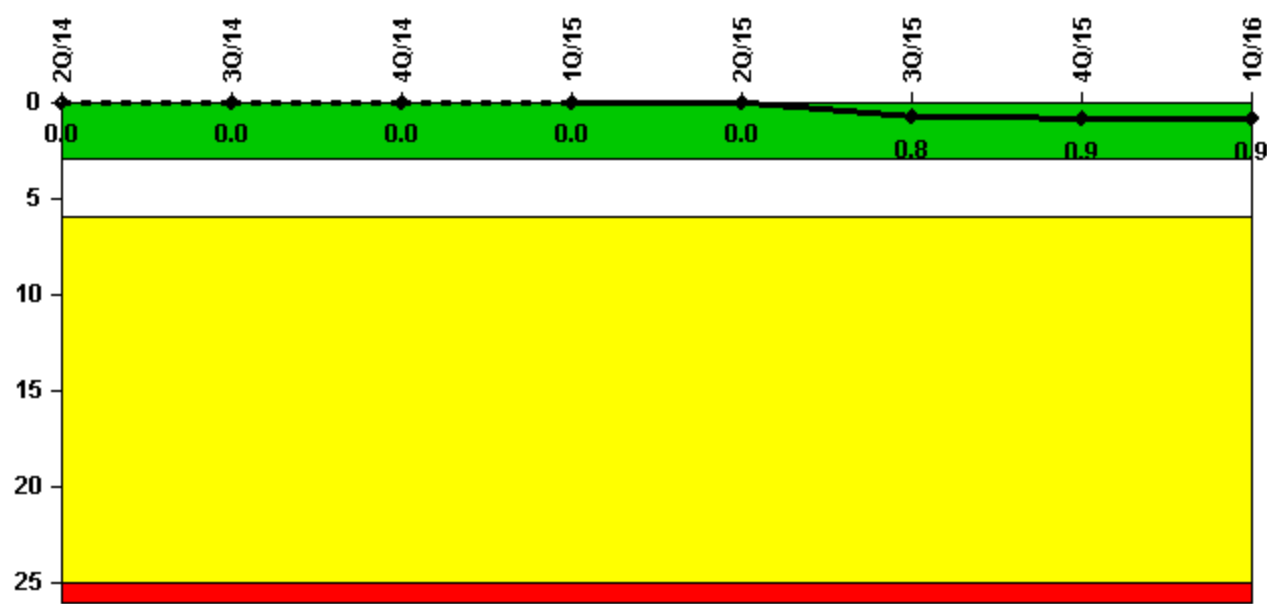
Palisades

1Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



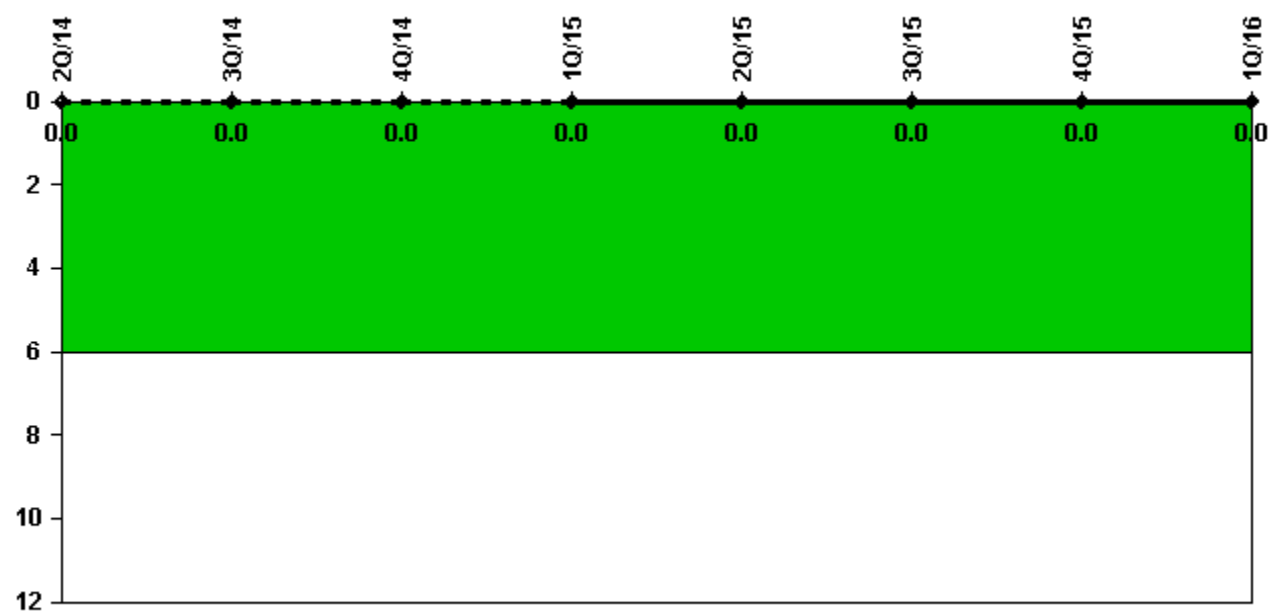
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2054.0	2208.0	2209.0	2159.0	2184.0	1849.3	1771.8	2183.0
Indicator value	0	0	0	0	0	0.8	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



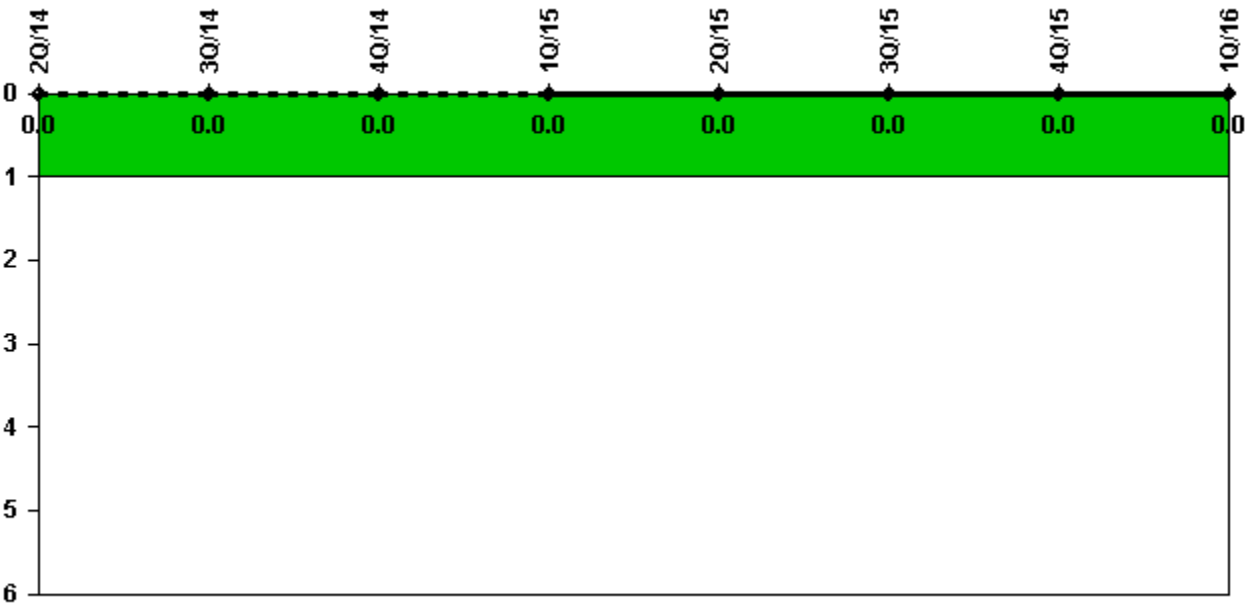
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2054.0	2208.0	2209.0	2159.0	2184.0	1849.3	1771.8	2183.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



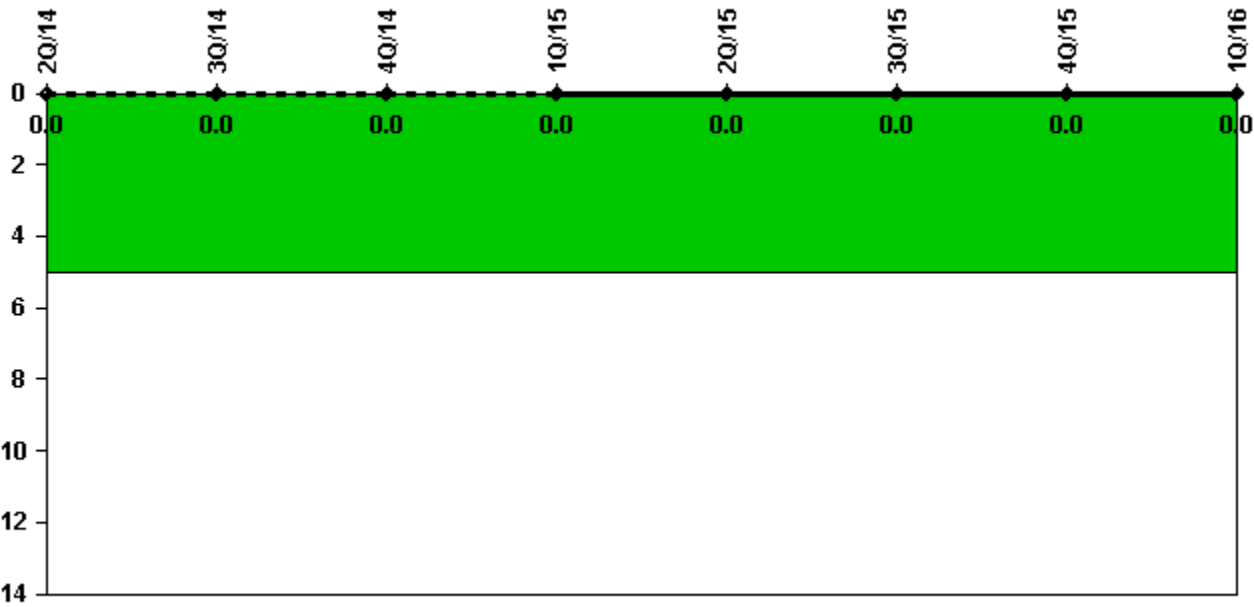
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



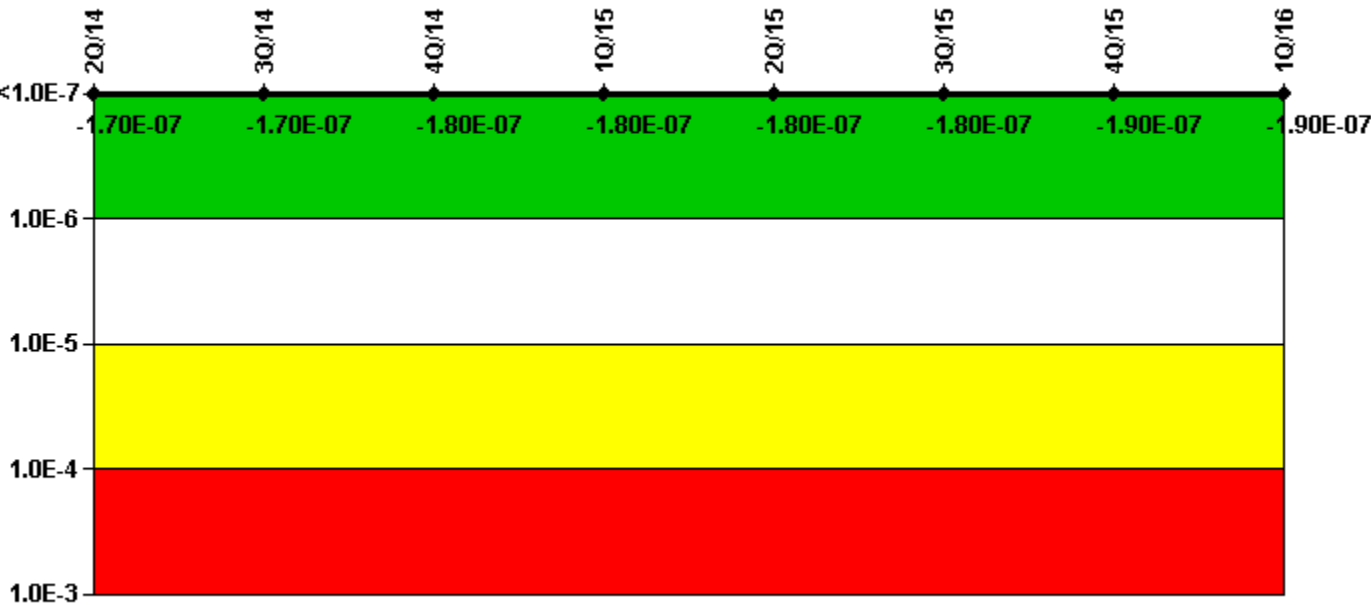
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



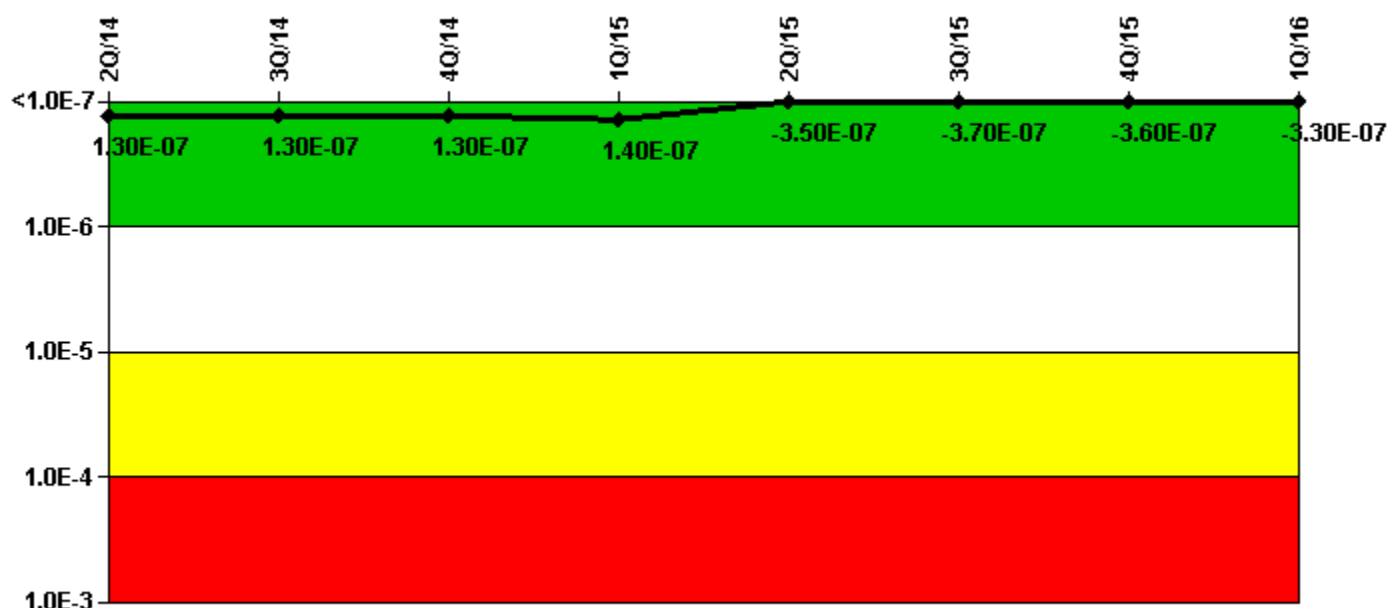
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (ΔCDF)	-1.08E-08	-1.24E-08	-1.75E-08	-1.79E-08	-2.02E-08	-2.11E-08	-2.73E-08	-2.73E-08
URI (ΔCDF)	-1.60E-07	-1.60E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	-1.70E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.90E-07	-1.90E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	-1.06E-07	-1.06E-07	-1.06E-07	-9.92E-08	-8.21E-08	-1.06E-07	-9.31E-08	-6.44E-08
URI (Δ CDF)	2.35E-07	2.35E-07	2.35E-07	2.35E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.30E-07	1.30E-07	1.30E-07	1.40E-07	-3.50E-07	-3.70E-07	-3.60E-07	-3.30E-07

Licensee Comments:

4Q/15: Evaluation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet degradation from September 2015 concluded No MPSI Failure occurred. (Reference CR-PLP-2015-04043)

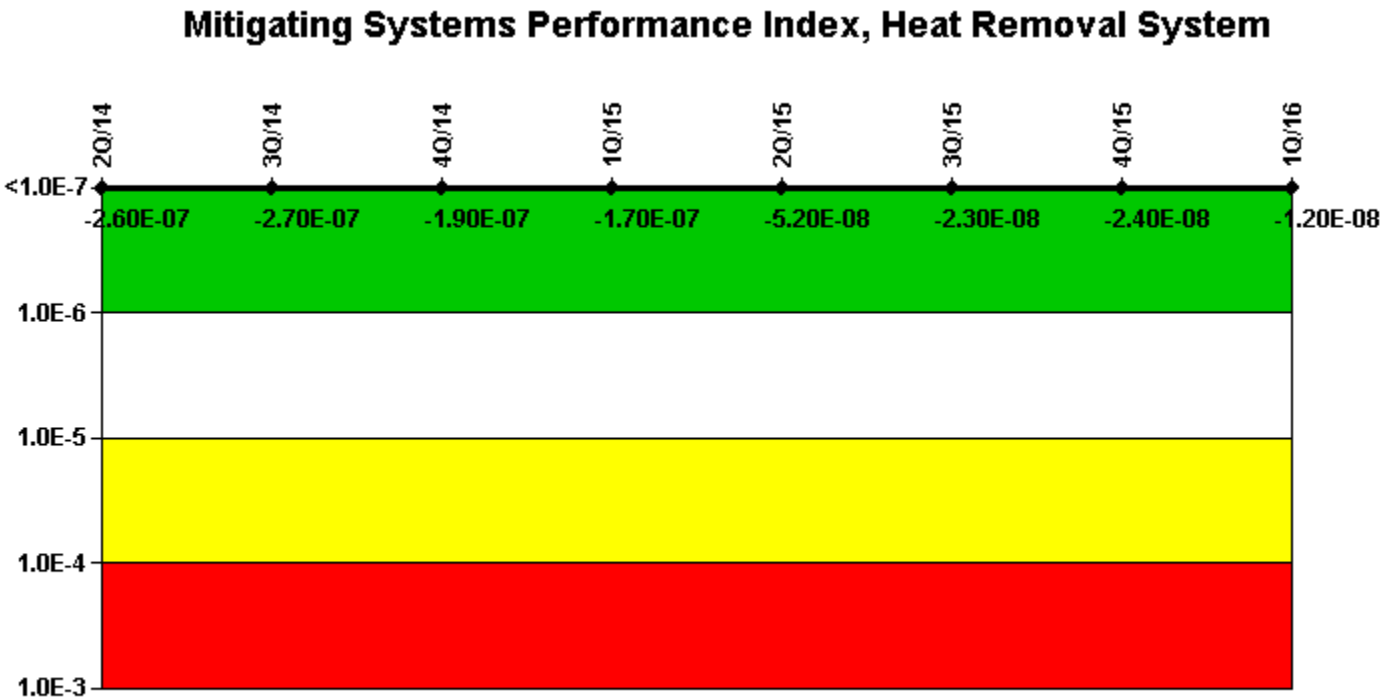
3Q/15: Evaluation is pending on degradation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet identified in September 2015. (Reference CR-PLP-2015-04043)

1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked.

2Q/14: Risk Cap Invoked.



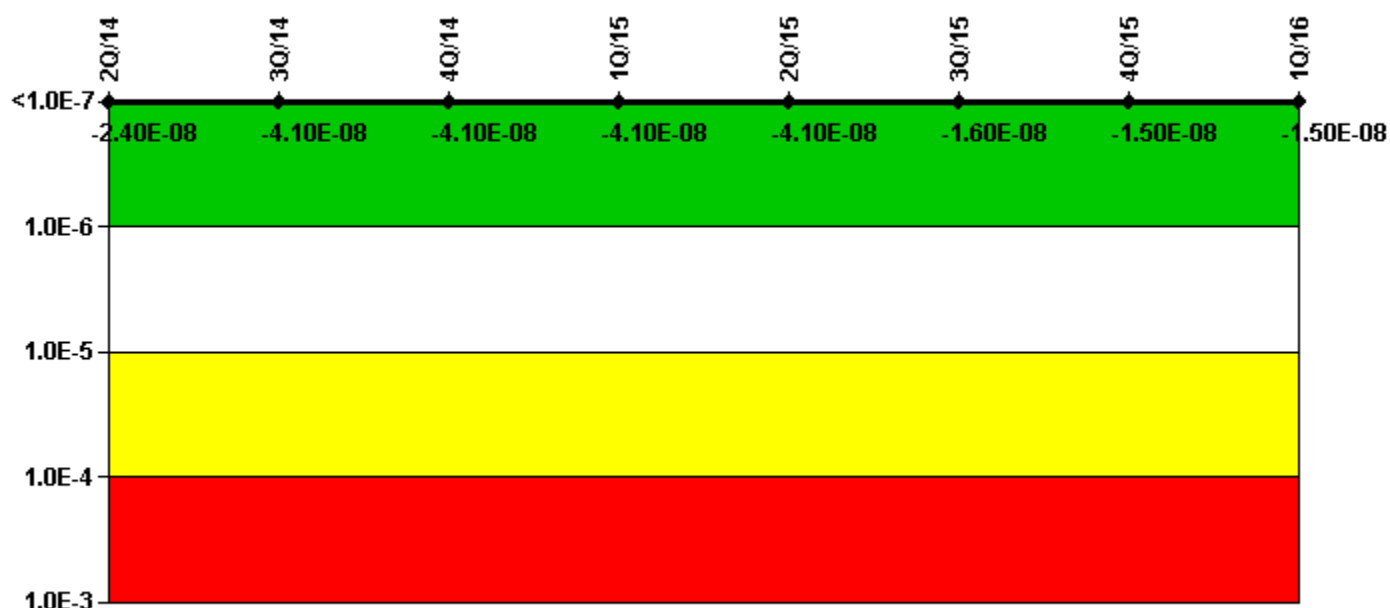
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (ΔCDF)	1.40E-08	1.19E-08	1.37E-08	3.38E-08	1.48E-07	1.77E-07	1.76E-07	1.89E-07
URI (ΔCDF)	-2.78E-07	-2.77E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.60E-07	-2.70E-07	-1.90E-07	-1.70E-07	-5.20E-08	-2.30E-08	-2.40E-08	-1.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

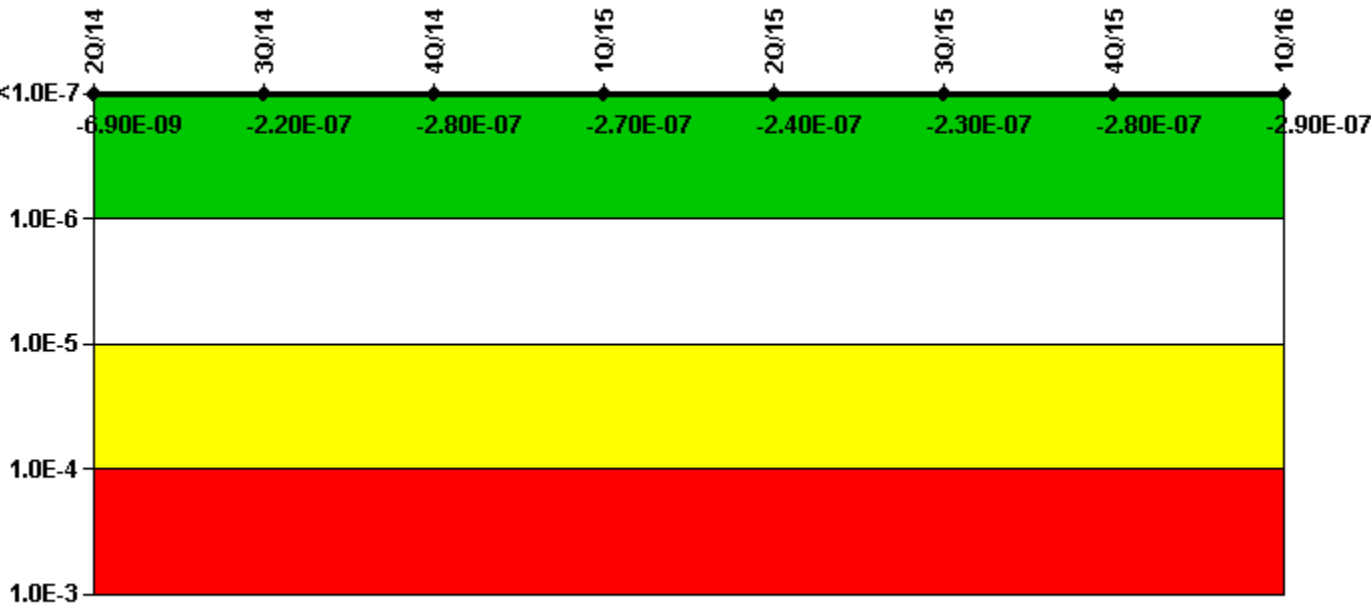
Mitigating Systems Performance Index, Residual Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	1.64E-08	-2.90E-10	-2.90E-10	-2.91E-10	-3.01E-10	2.48E-08	2.52E-08	2.50E-08
URI (Δ CDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-08	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08	-1.60E-08	-1.50E-08	-1.50E-08

Licensee Comments:

4Q/15: Evaluation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet degradation from September 2015 concluded No MPSI Failure occurred. (Reference CR-PLP-2015-04043)

3Q/15: Evaluation is pending on degradation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet identified in September 2015. (Reference CR-PLP-2015-04043)

Mitigating Systems Performance Index, Cooling Water Systems



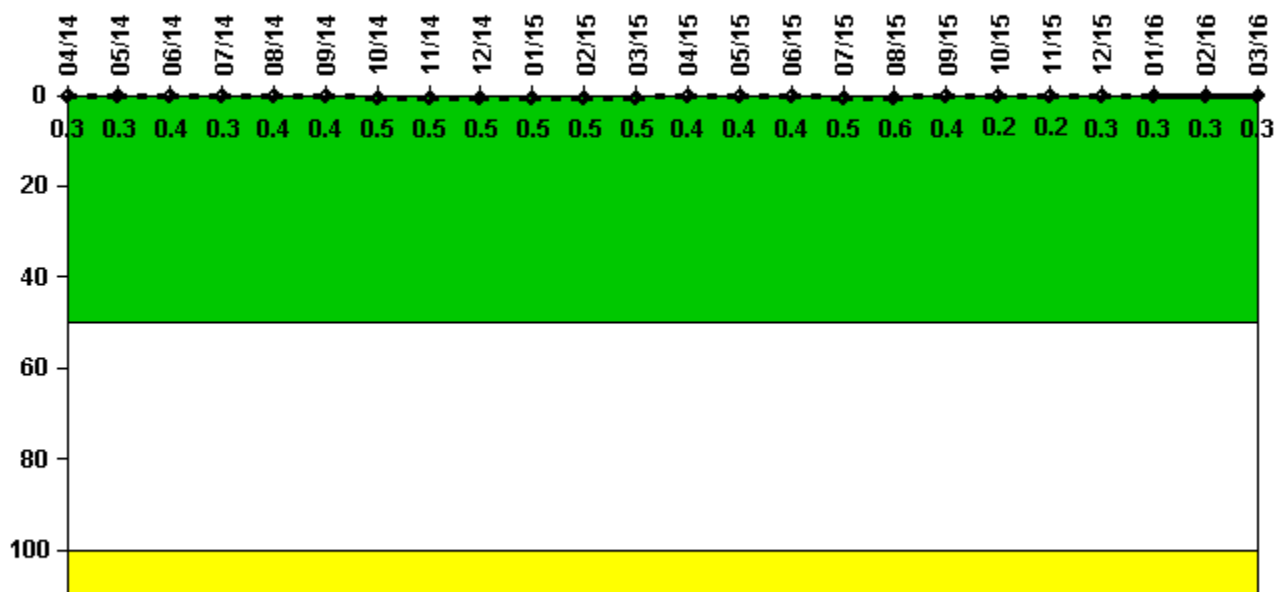
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (ΔCDF)	1.80E-07	1.47E-08	-5.15E-08	-3.68E-08	-9.34E-09	-1.86E-09	-4.99E-08	-5.46E-08
URI (ΔCDF)	-1.87E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.90E-09	-2.20E-07	-2.80E-07	-2.70E-07	-2.40E-07	-2.30E-07	-2.80E-07	-2.90E-07

Licensee Comments: none

Reactor Coolant System Activity

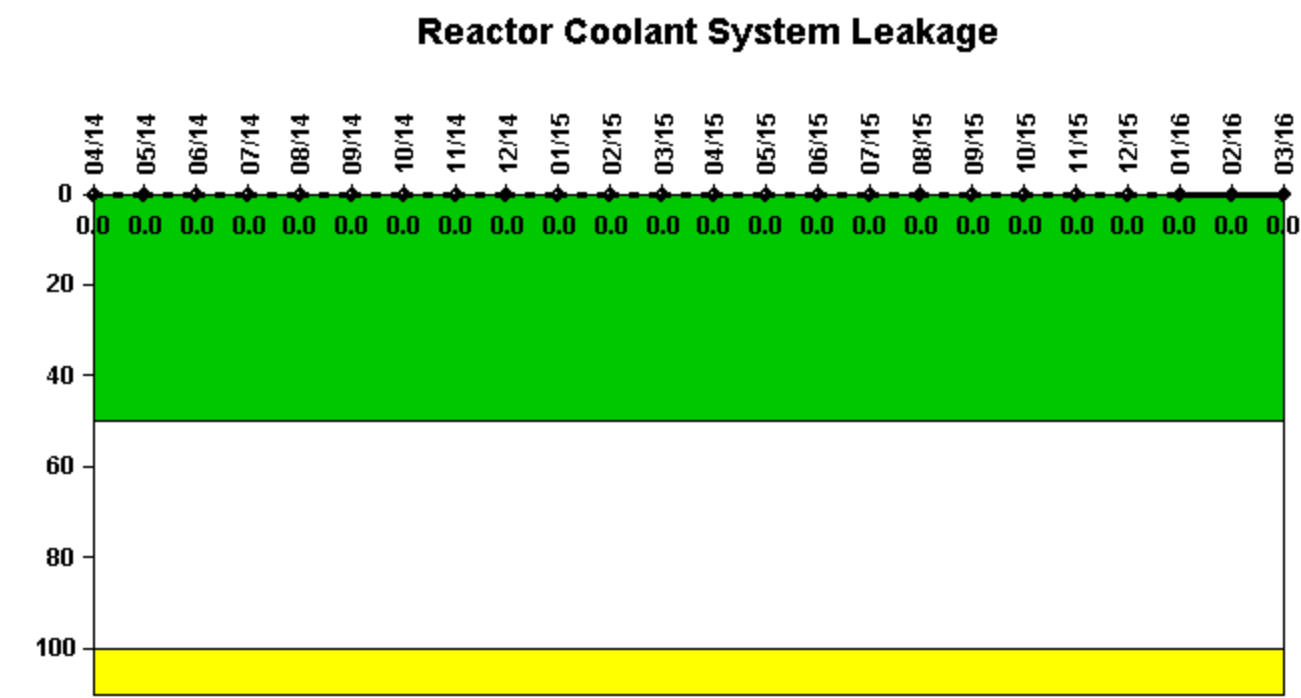


Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum activity	0.002970	0.003430	0.003510	0.003460	0.004060	0.004240	0.004550	0.004540	0.004820	0.005160	0.005170	0.004910
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.3	0.3	0.4	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5
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	0.004100	0.004450	0.004110	0.005340	0.005930	0.004120	0.001920	0.002100	0.002710	0.002940	0.003340	0.003460
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.4	0.4	0.5	0.6	0.4	0.2	0.2	0.3	0.3	0.3	0.3

Licensee Comments: none



Thresholds: White > 50.0 Yellow > 100.0

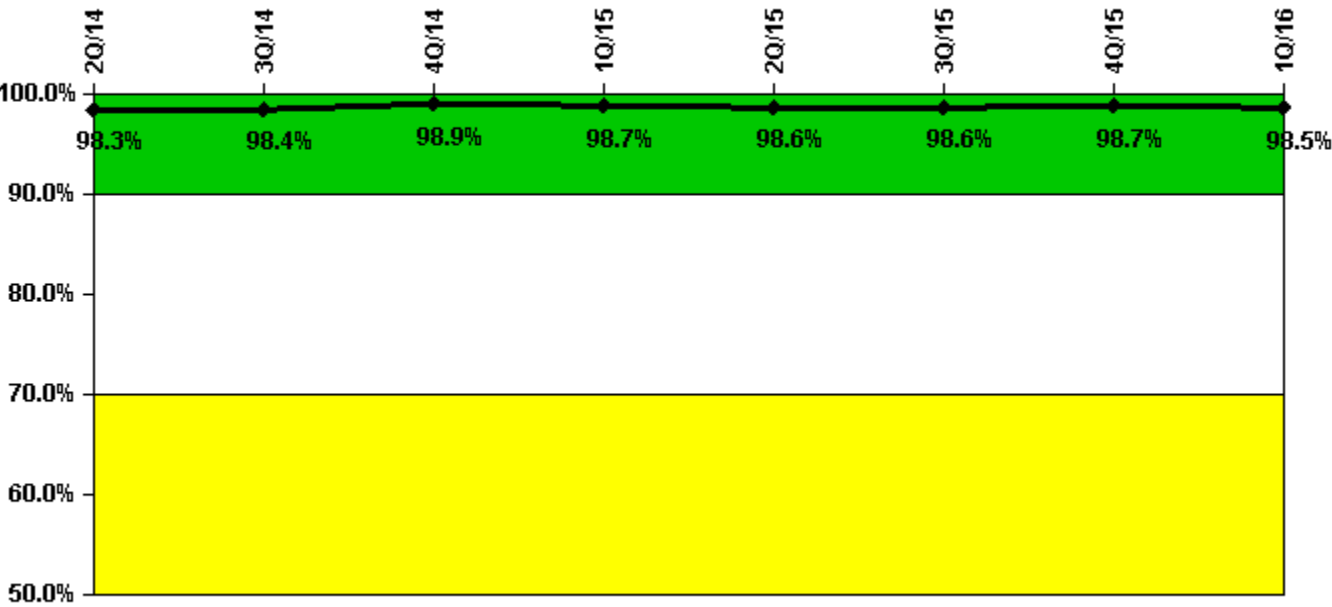
Notes

Reactor Coolant System Leakage	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum leakage	0	0	0	0.001	0.001	0.001	0.003	0.003	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Leakage	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	0.001	0.001	0	0	0	0	0.001	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



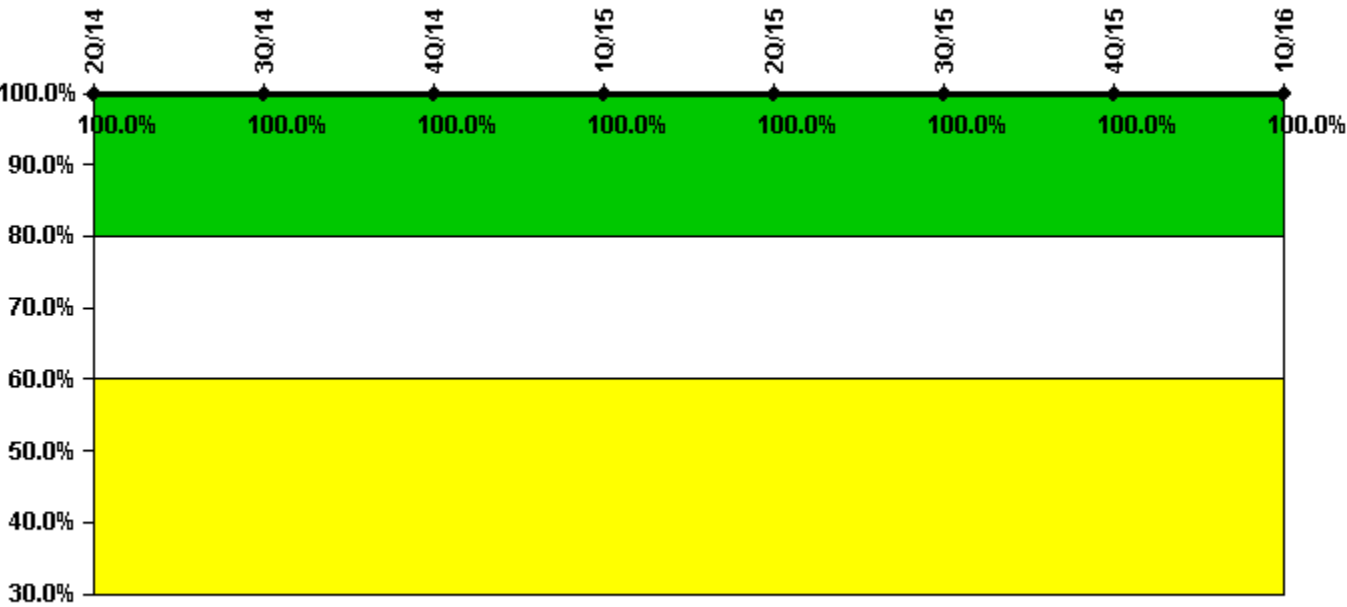
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful opportunities	66.0	19.0	30.0	80.0	57.0	98.0	66.0	115.0
Total opportunities	67.0	22.0	30.0	81.0	58.0	98.0	66.0	117.0
Indicator value	98.3%	98.4%	98.9%	98.7%	98.6%	98.6%	98.7%	98.5%

Licensee Comments: none

ERO Drill Participation



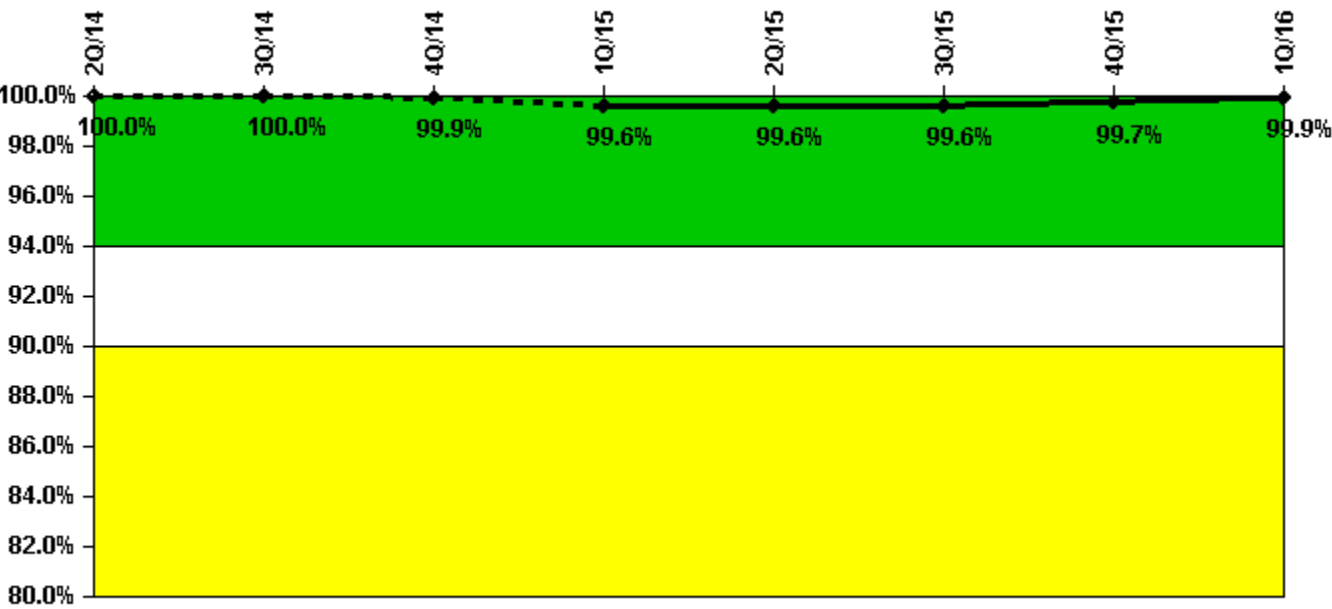
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Participating Key personnel	68.0	62.0	69.0	68.0	69.0	67.0	68.0	75.0
Total Key personnel	68.0	62.0	69.0	68.0	69.0	67.0	68.0	75.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



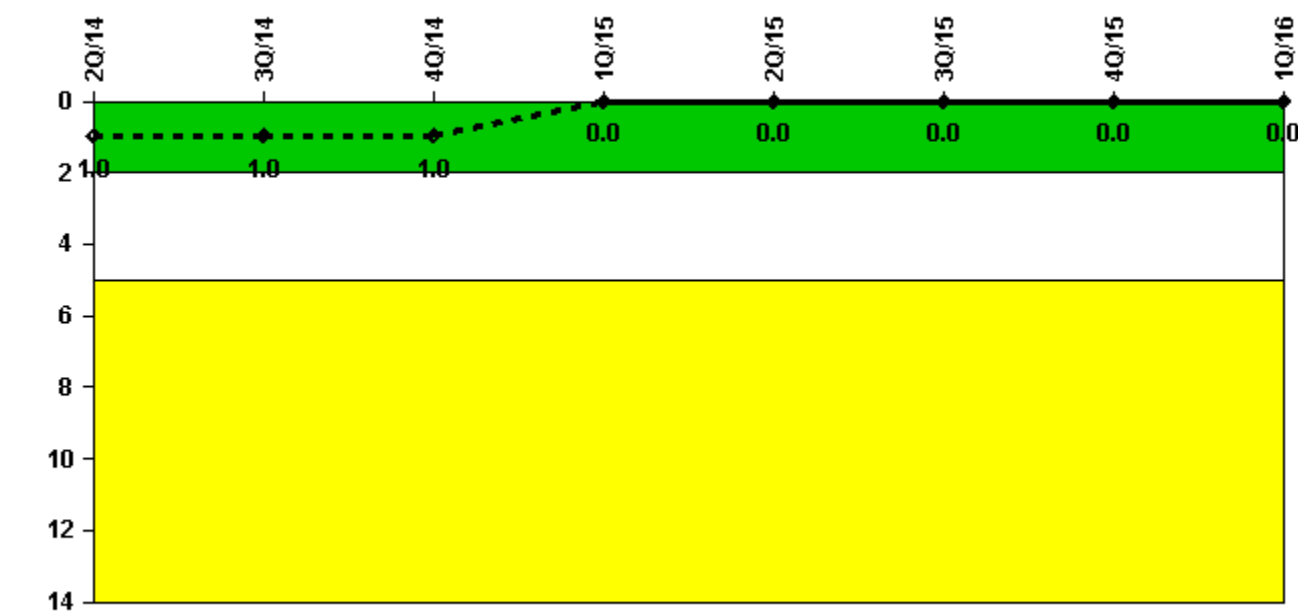
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful siren-tests	183	183	182	181	183	183	183	182
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	100.0%	100.0%	99.9%	99.6%	99.6%	99.6%	99.7%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



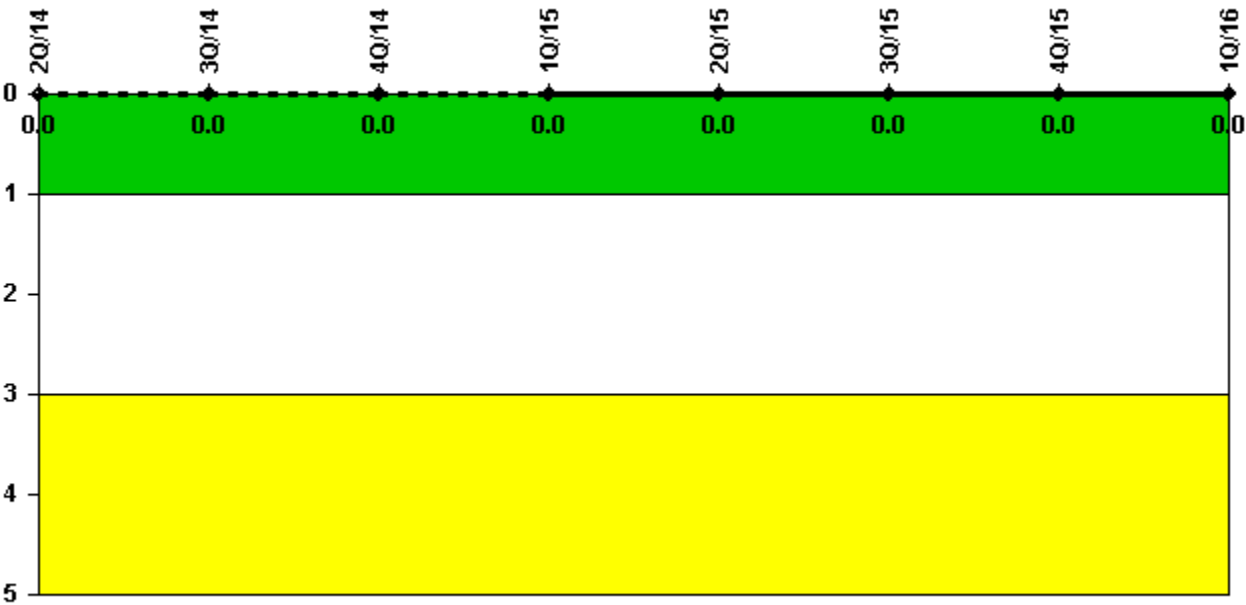
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	1	1	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/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

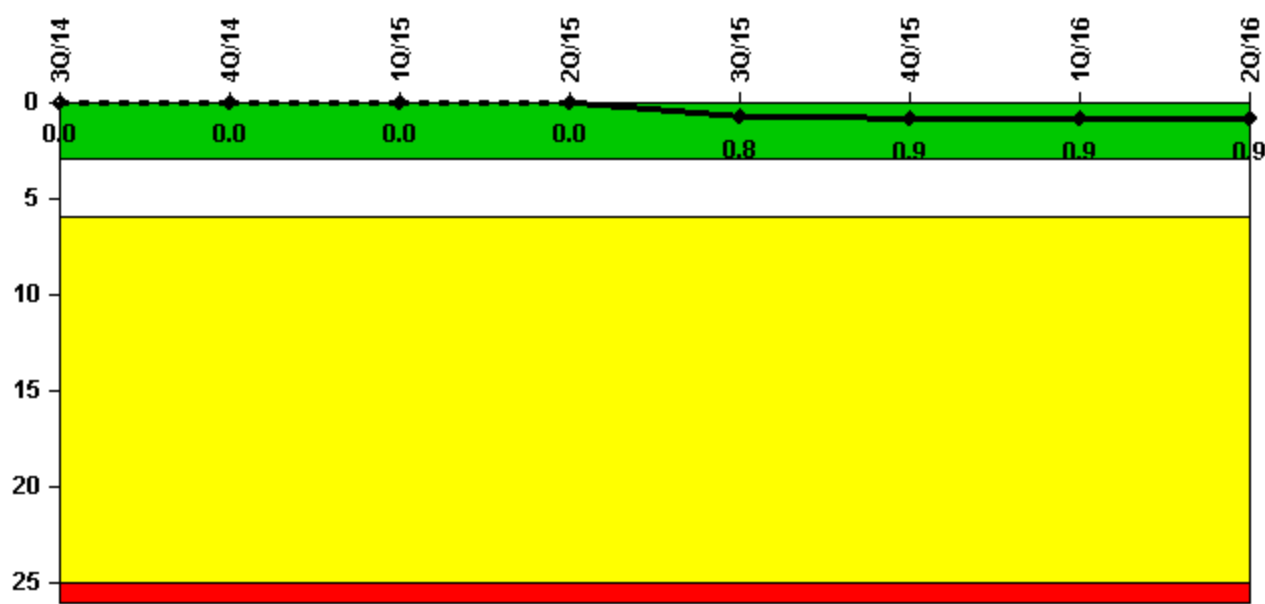
Palisades

2Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



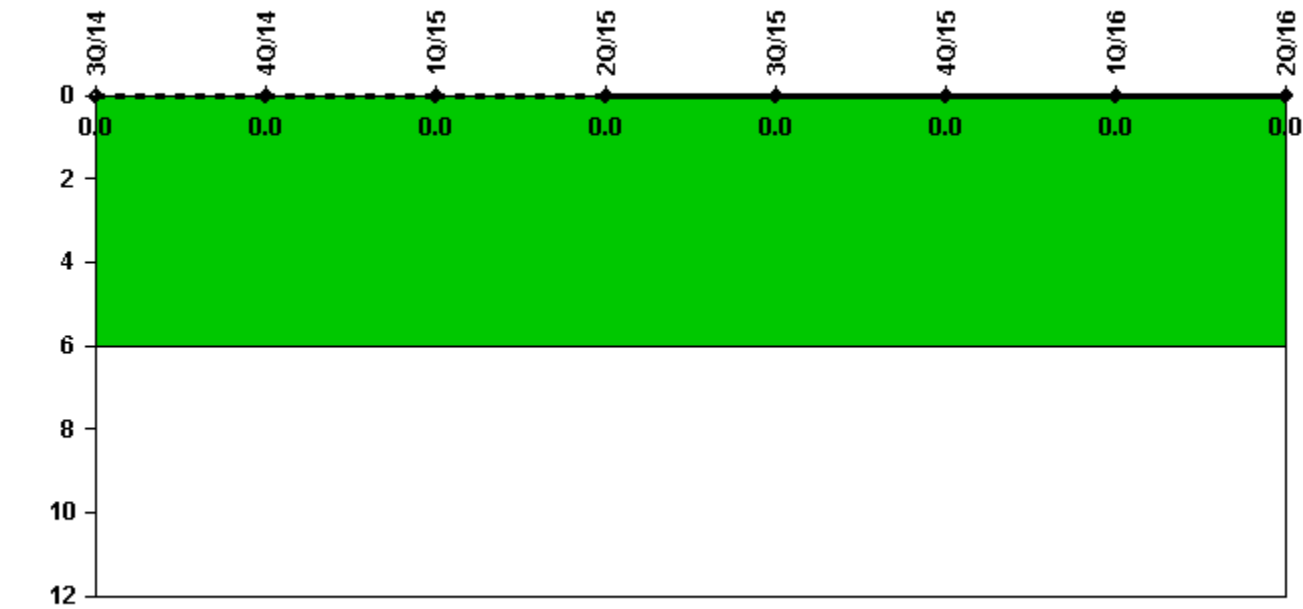
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	1849.3	1771.8	2183.0	2184.0
Indicator value	0	0	0	0	0.8	0.9	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



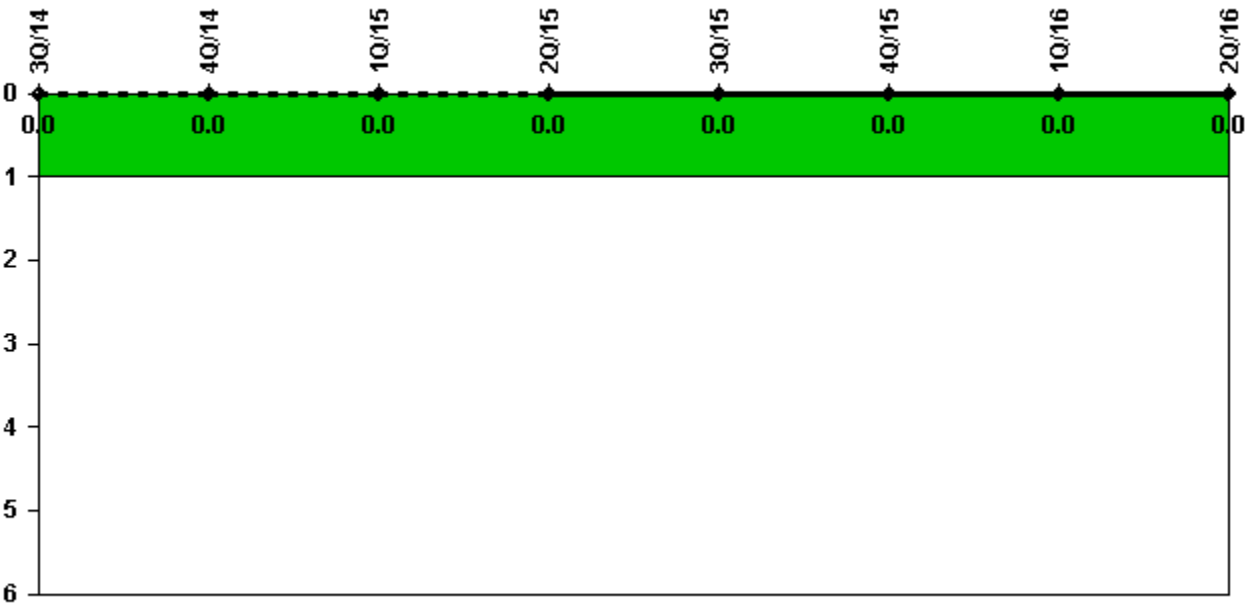
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	1849.3	1771.8	2183.0	2184.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



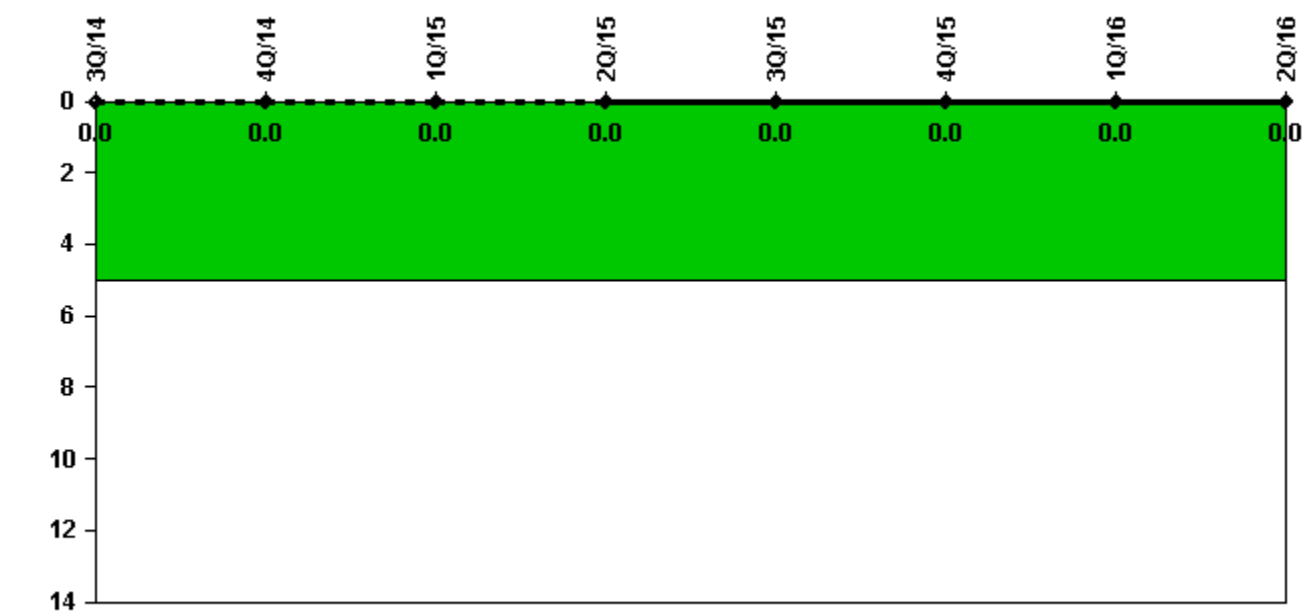
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



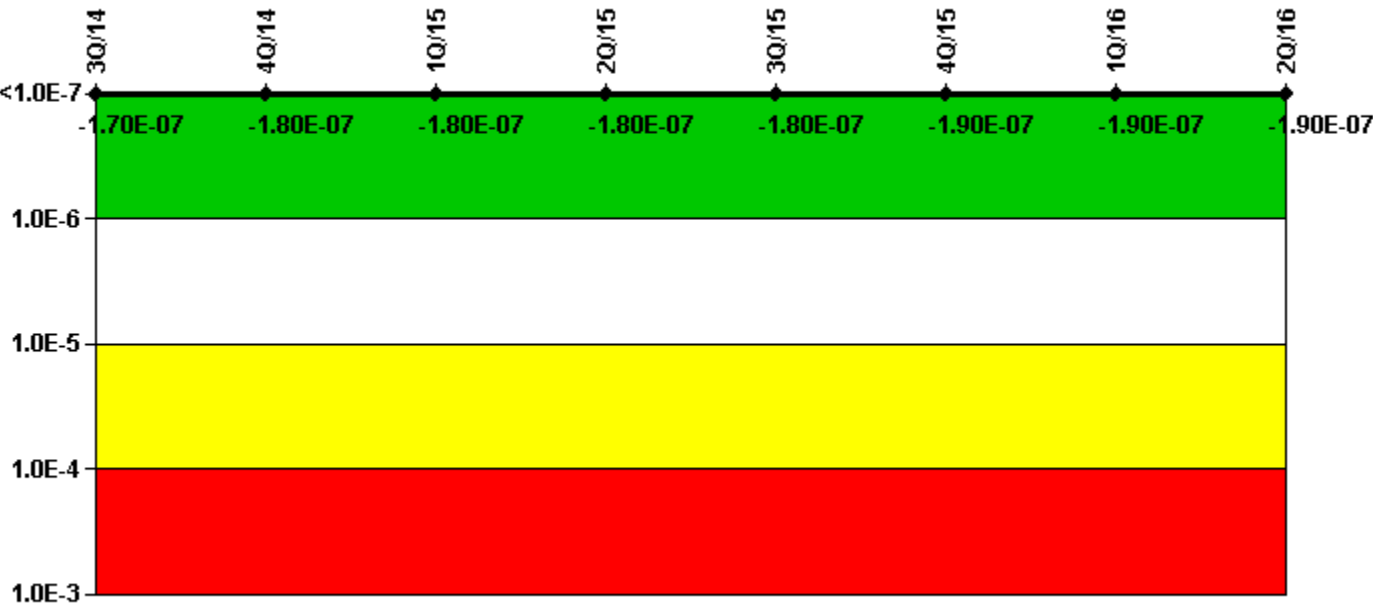
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Safety System Functional Failures	0	0	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



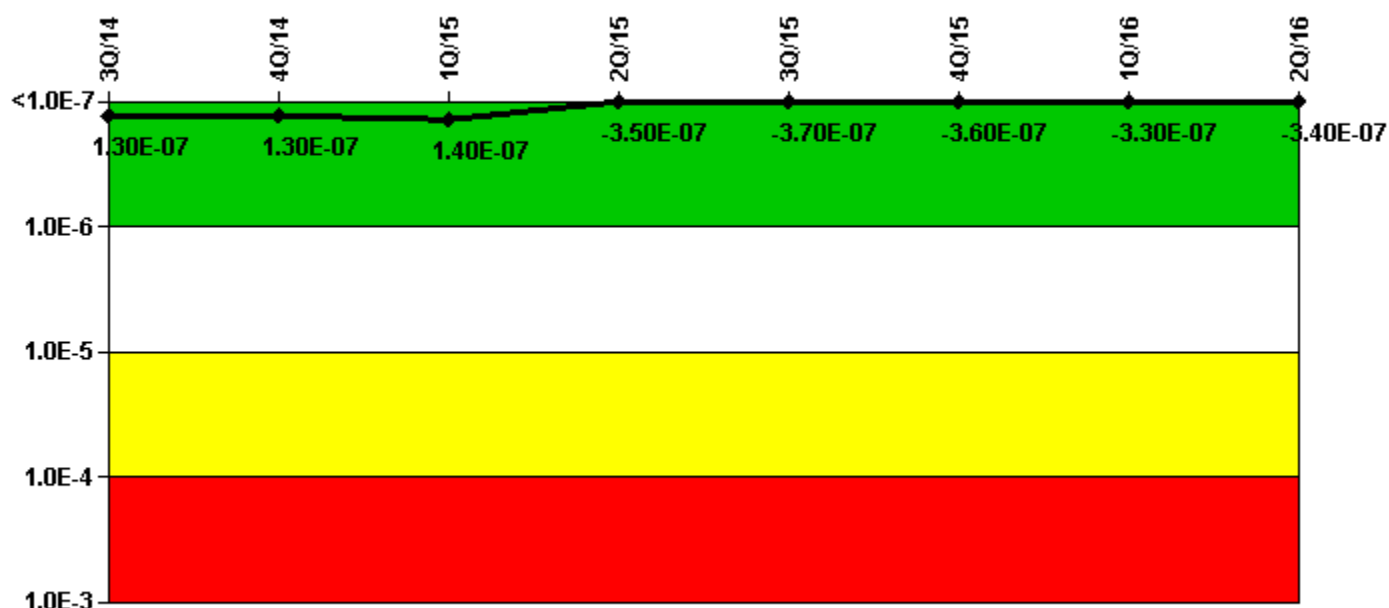
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (ΔCDF)	-1.24E-08	-1.75E-08	-1.79E-08	-2.02E-08	-2.11E-08	-2.73E-08	-2.73E-08	-2.73E-08
URI (ΔCDF)	-1.60E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.90E-07	-1.90E-07	-1.90E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	-1.06E-07	-1.06E-07	-9.92E-08	-8.21E-08	-1.06E-07	-9.31E-08	-6.44E-08	-7.38E-08
URI (Δ CDF)	2.35E-07	2.35E-07	2.35E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.30E-07	1.30E-07	1.40E-07	-3.50E-07	-3.70E-07	-3.60E-07	-3.30E-07	-3.40E-07

Licensee Comments:

4Q/15: Evaluation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet degradation from September 2015 concluded No MPSI Failure occurred. (Reference CR-PLP-2015-04043)

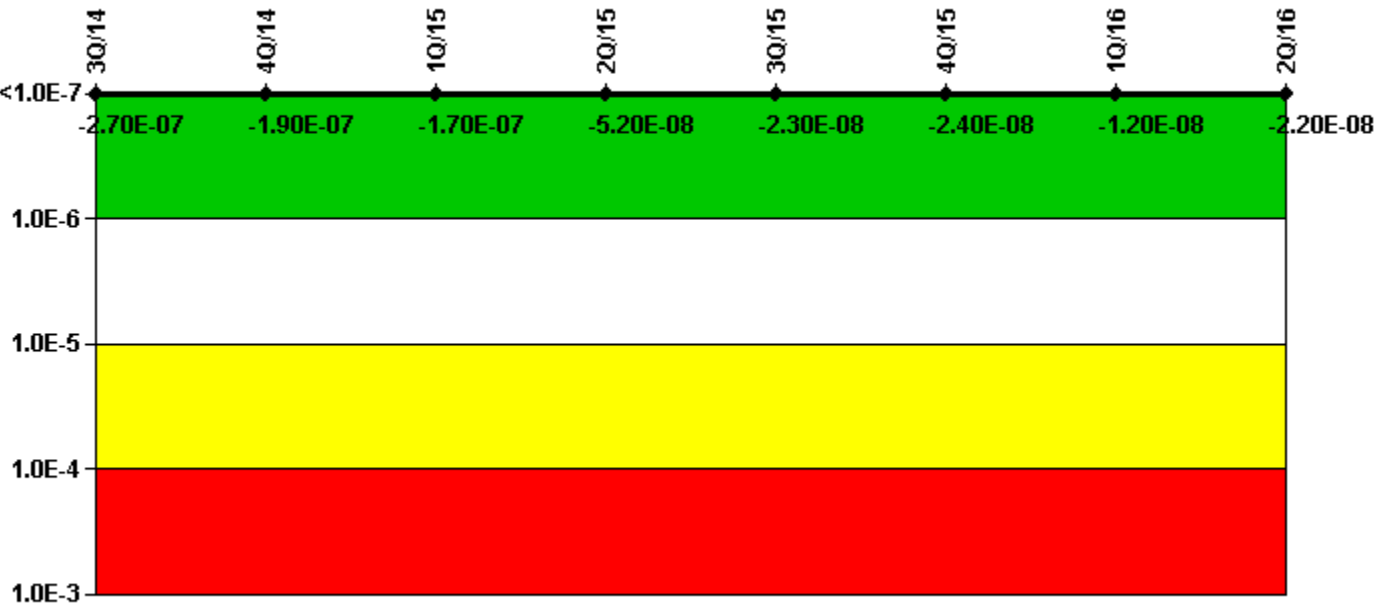
3Q/15: Evaluation is pending on degradation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet identified in September 2015. (Reference CR-PLP-2015-04043)

1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked.

Mitigating Systems Performance Index, Heat Removal System



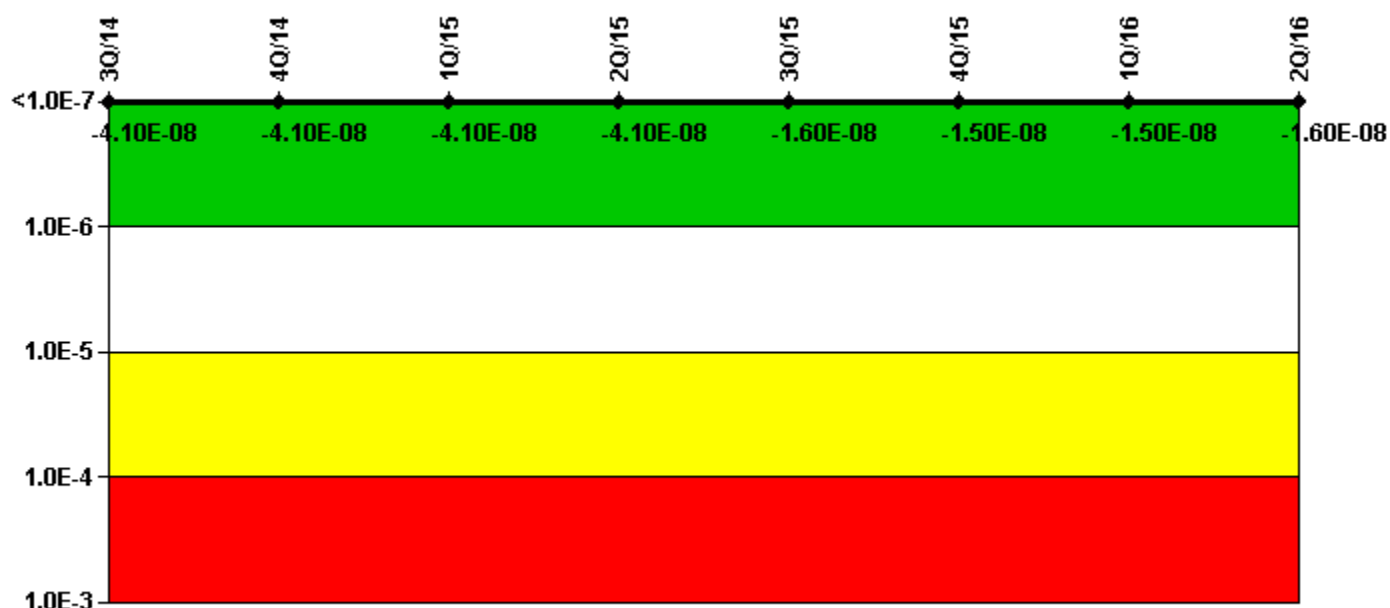
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (ΔCDF)	1.19E-08	1.37E-08	3.38E-08	1.48E-07	1.77E-07	1.76E-07	1.89E-07	1.79E-07
URI (ΔCDF)	-2.77E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.70E-07	-1.90E-07	-1.70E-07	-5.20E-08	-2.30E-08	-2.40E-08	-1.20E-08	-2.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

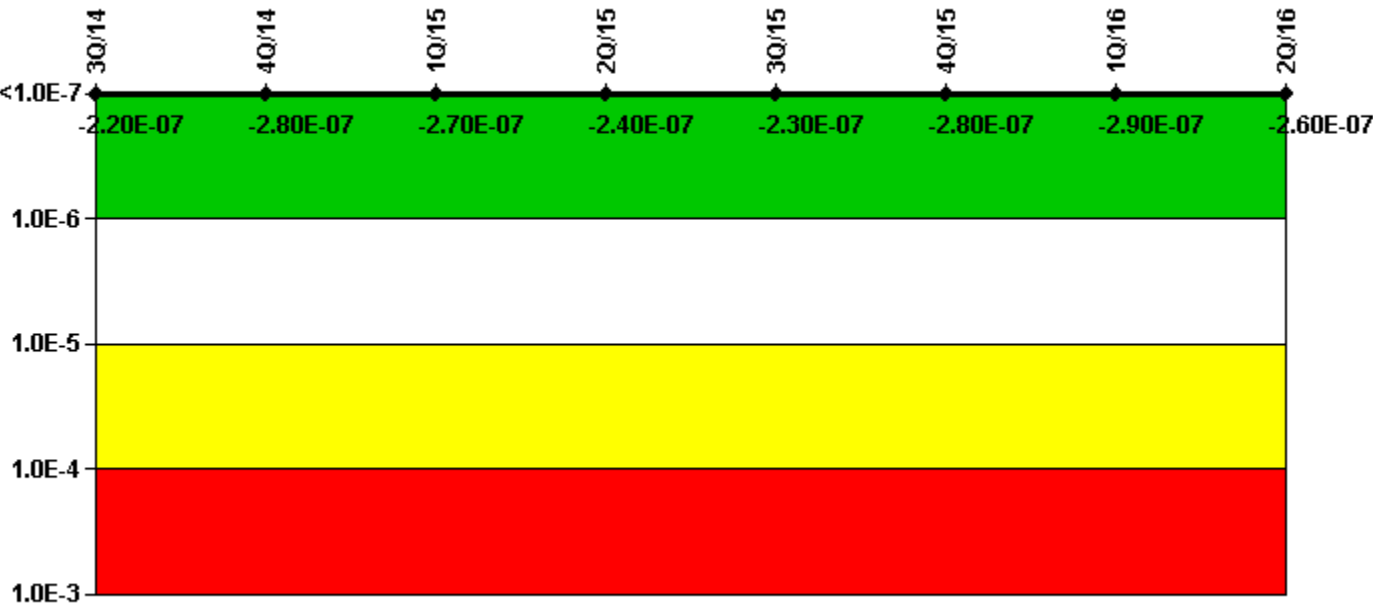
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	-2.90E-10	-2.90E-10	-2.91E-10	-3.01E-10	2.48E-08	2.52E-08	2.50E-08	2.39E-08
URI (Δ CDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.10E-08	-4.10E-08	-4.10E-08	-4.10E-08	-1.60E-08	-1.50E-08	-1.50E-08	-1.60E-08

Licensee Comments:

4Q/15: Evaluation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet degradation from September 2015 concluded No MPSI Failure occurred. (Reference CR-PLP-2015-04043)

3Q/15: Evaluation is pending on degradation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet identified in September 2015. (Reference CR-PLP-2015-04043)

Mitigating Systems Performance Index, Cooling Water Systems



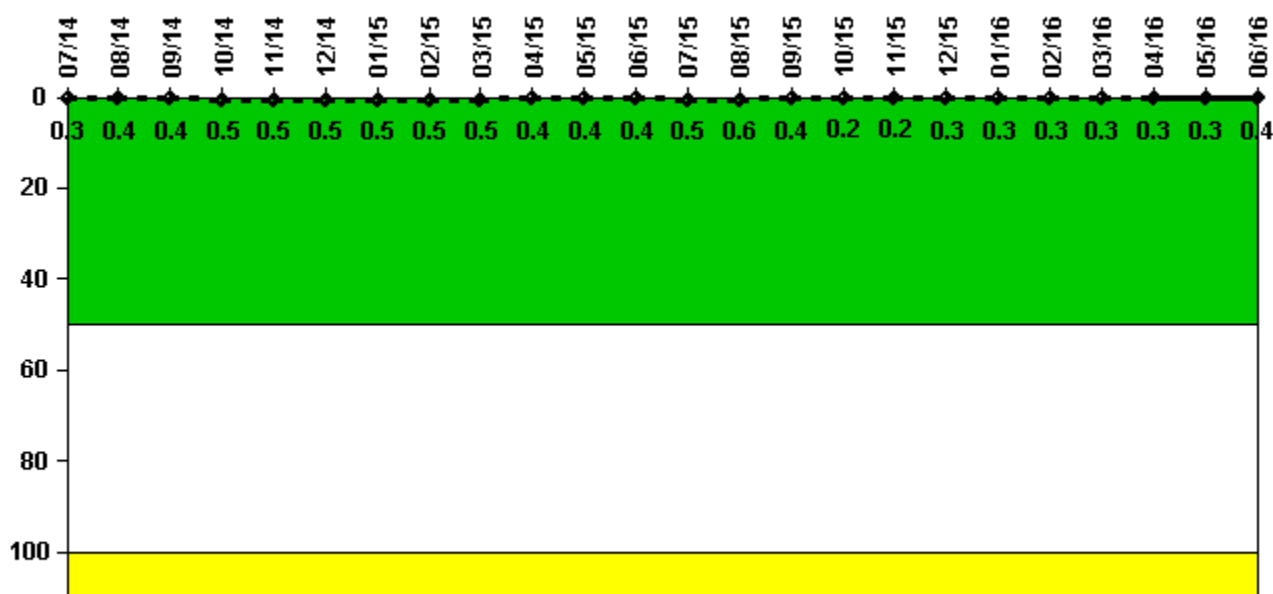
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (ΔCDF)	1.47E-08	-5.15E-08	-3.68E-08	-9.34E-09	-1.86E-09	-4.99E-08	-5.46E-08	-3.42E-08
URI (ΔCDF)	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-07	-2.80E-07	-2.70E-07	-2.40E-07	-2.30E-07	-2.80E-07	-2.90E-07	-2.60E-07

Licensee Comments: none

Reactor Coolant System Activity



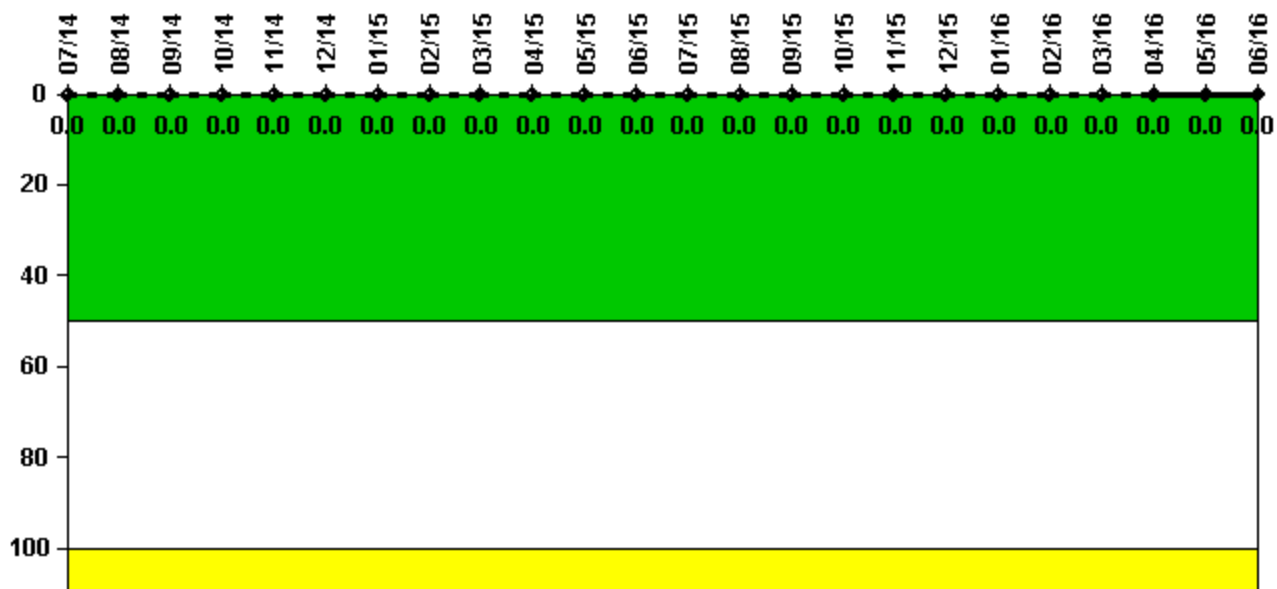
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum activity	0.003460	0.004060	0.004240	0.004550	0.004540	0.004820	0.005160	0.005170	0.004910	0.004100	0.004450	0.004110
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.3	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4
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	0.005340	0.005930	0.004120	0.001920	0.002100	0.002710	0.002940	0.003340	0.003460	0.002720	0.002760	0.003810
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.5	0.6	0.4	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

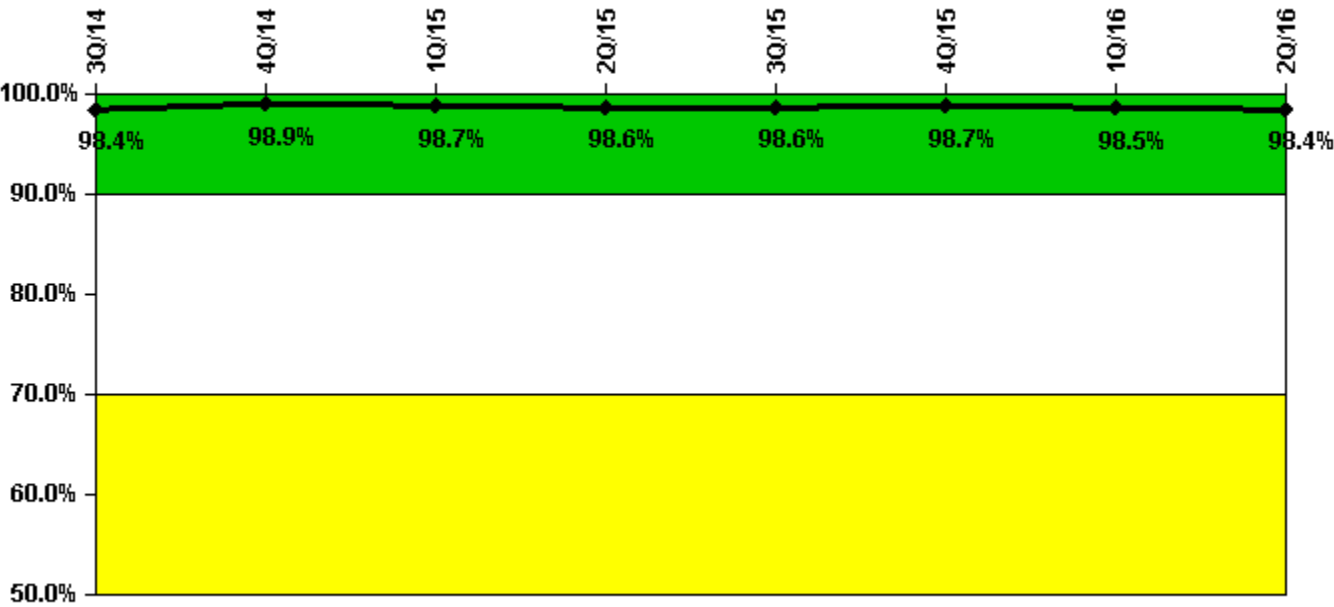
Notes

Reactor Coolant System Leakage	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	0.001	0.001	0.001	0.003	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Leakage	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum leakage	0	0	0	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Drill/Exercise Performance



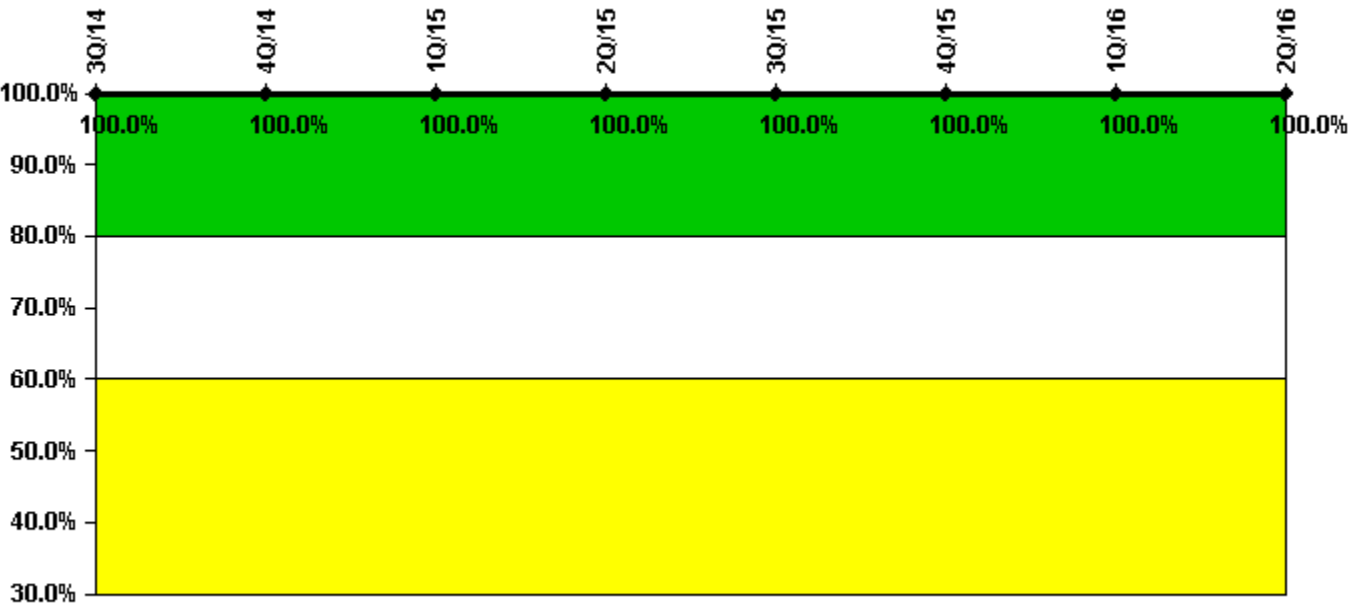
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful opportunities	19.0	30.0	80.0	57.0	98.0	66.0	115.0	34.0
Total opportunities	22.0	30.0	81.0	58.0	98.0	66.0	117.0	35.0
Indicator value	98.4%	98.9%	98.7%	98.6%	98.6%	98.7%	98.5%	98.4%

Licensee Comments: none

ERO Drill Participation



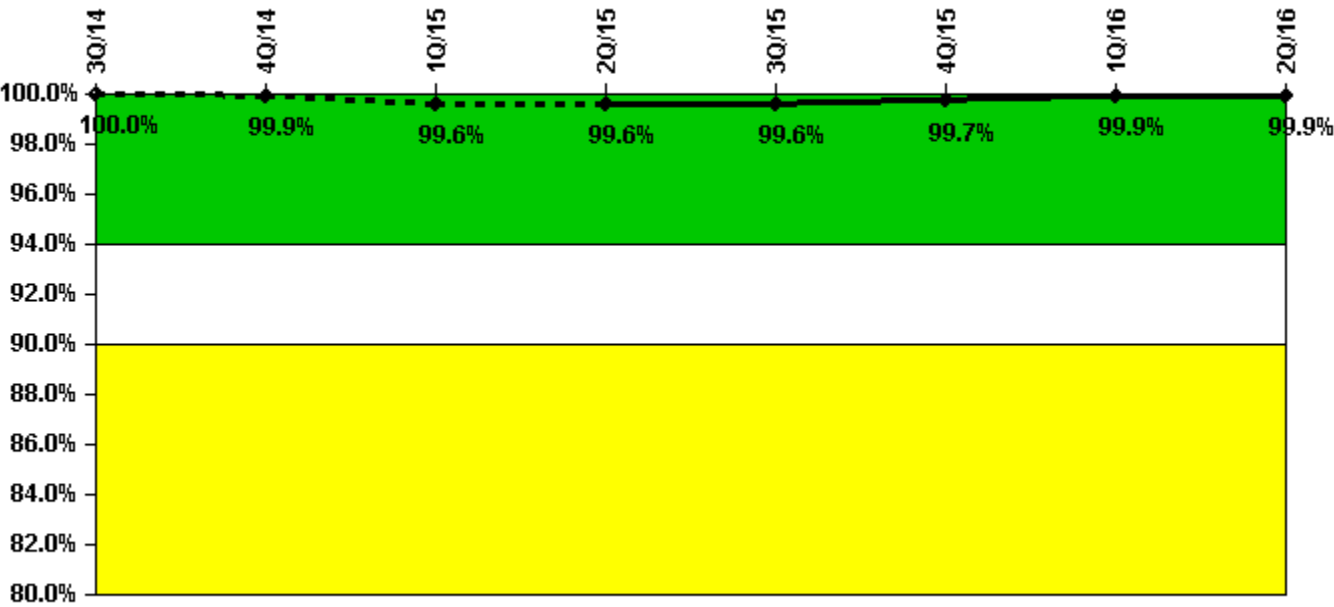
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Participating Key personnel	62.0	69.0	68.0	69.0	67.0	68.0	75.0	73.0
Total Key personnel	62.0	69.0	68.0	69.0	67.0	68.0	75.0	73.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



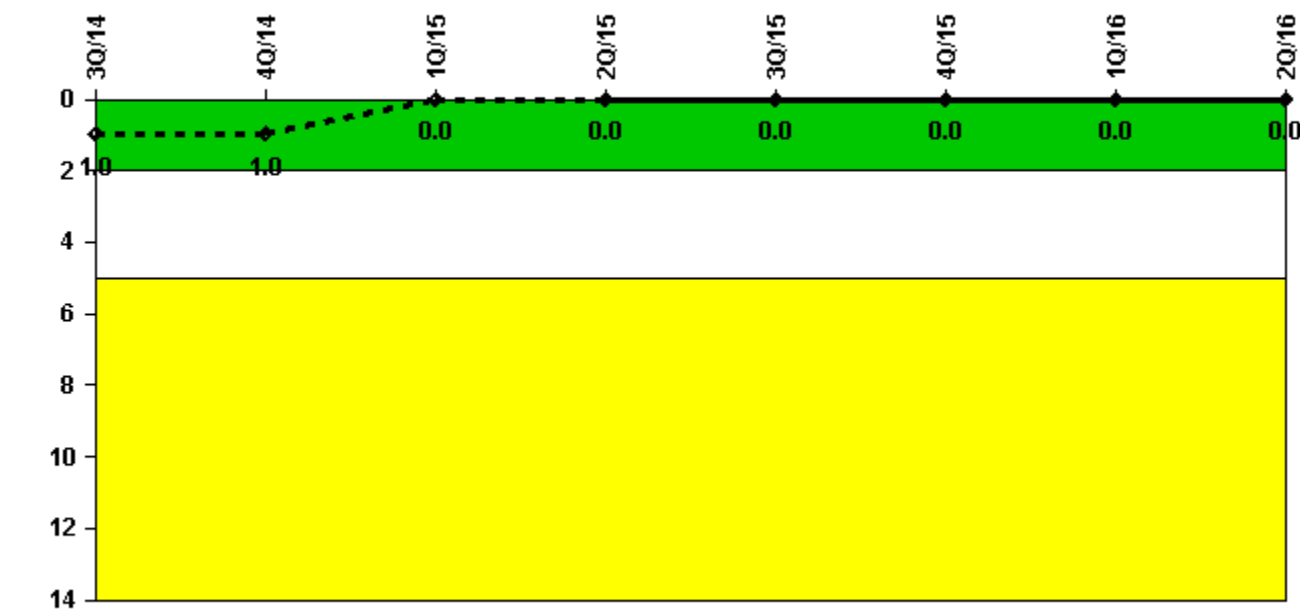
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful siren-tests	183	182	181	183	183	183	182	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	100.0%	99.9%	99.6%	99.6%	99.6%	99.7%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



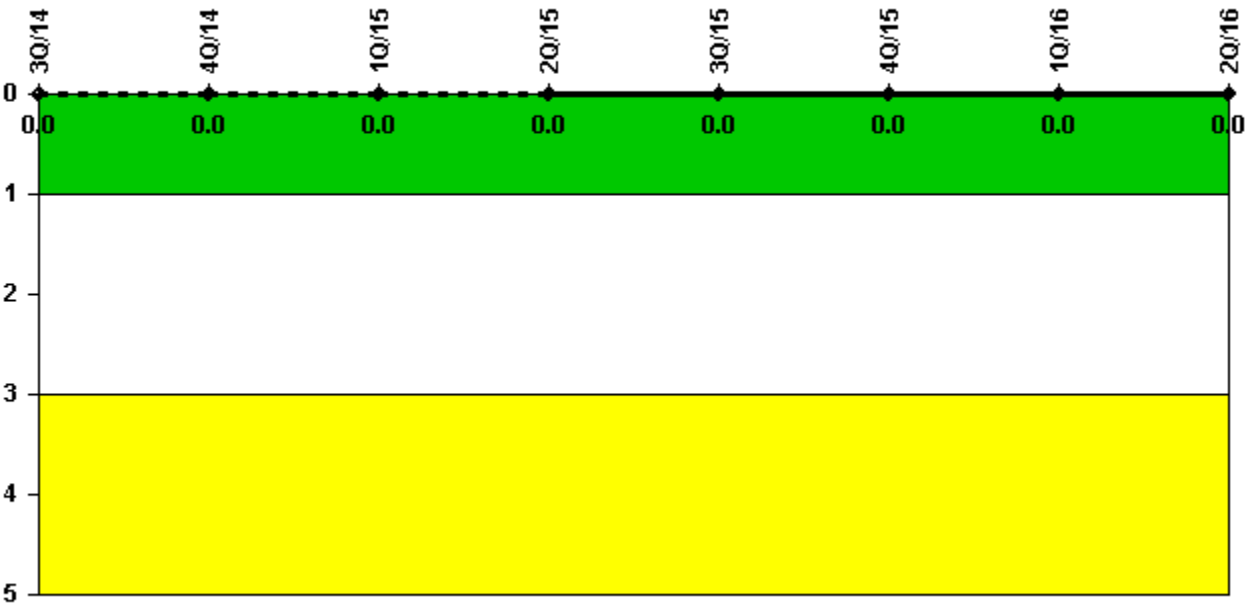
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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	1	1	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/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

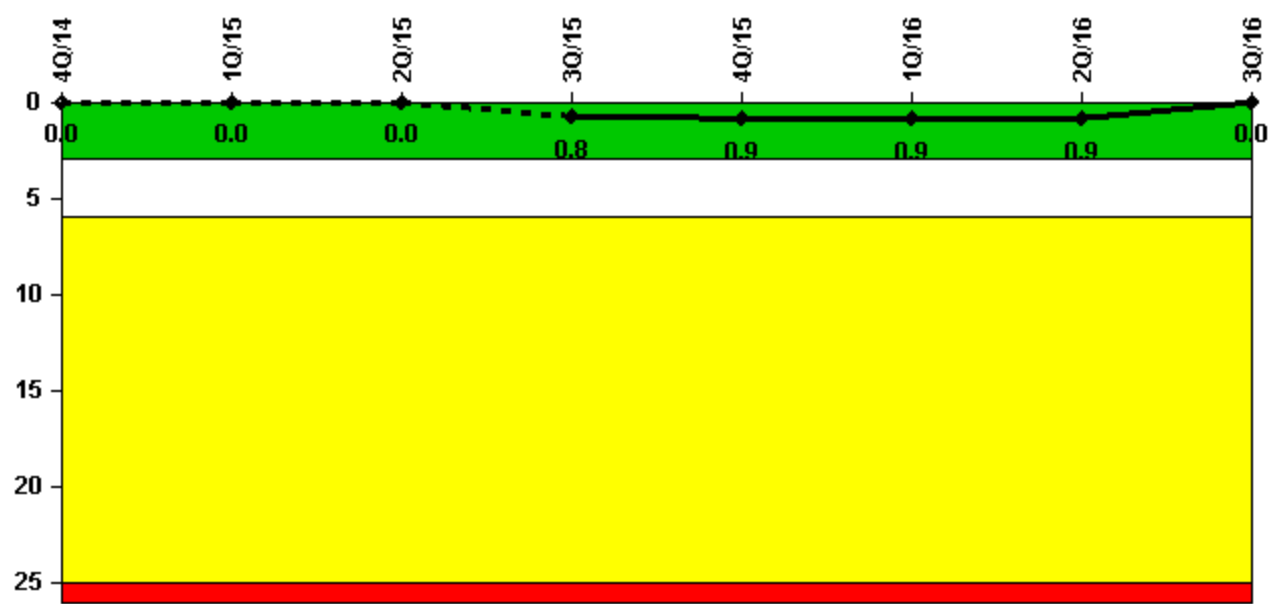
Palisades

3Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



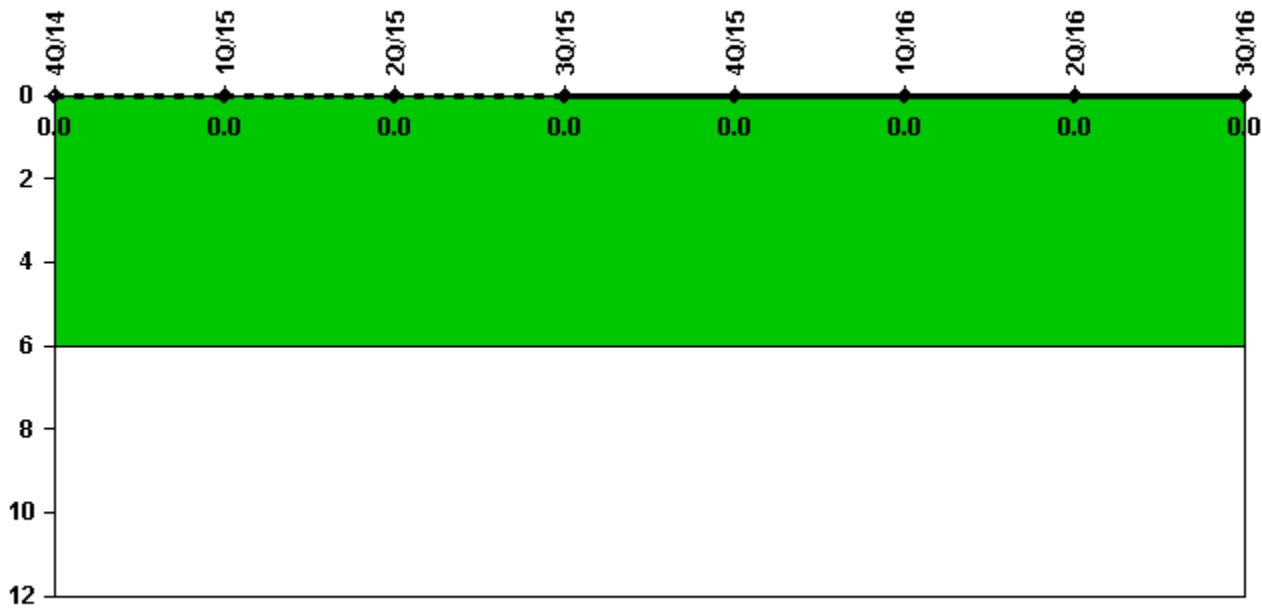
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2209.0	2159.0	2184.0	1849.3	1771.8	2183.0	2184.0	2208.0
Indicator value	0	0	0	0.8	0.9	0.9	0.9	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



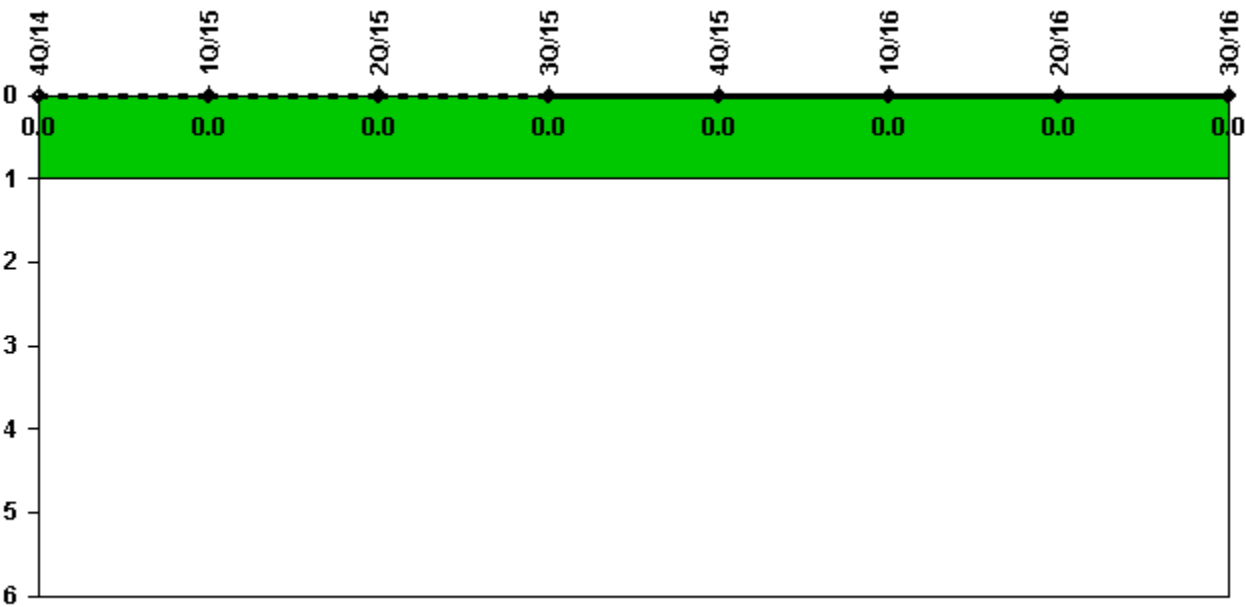
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	2184.0	1849.3	1771.8	2183.0	2184.0	2208.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



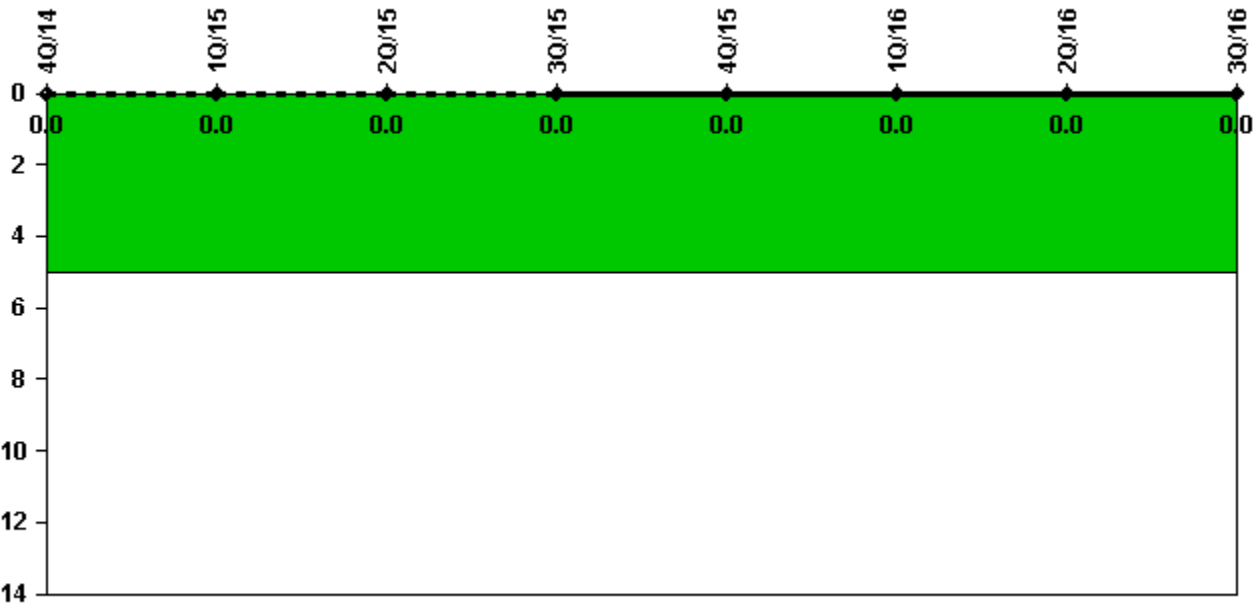
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



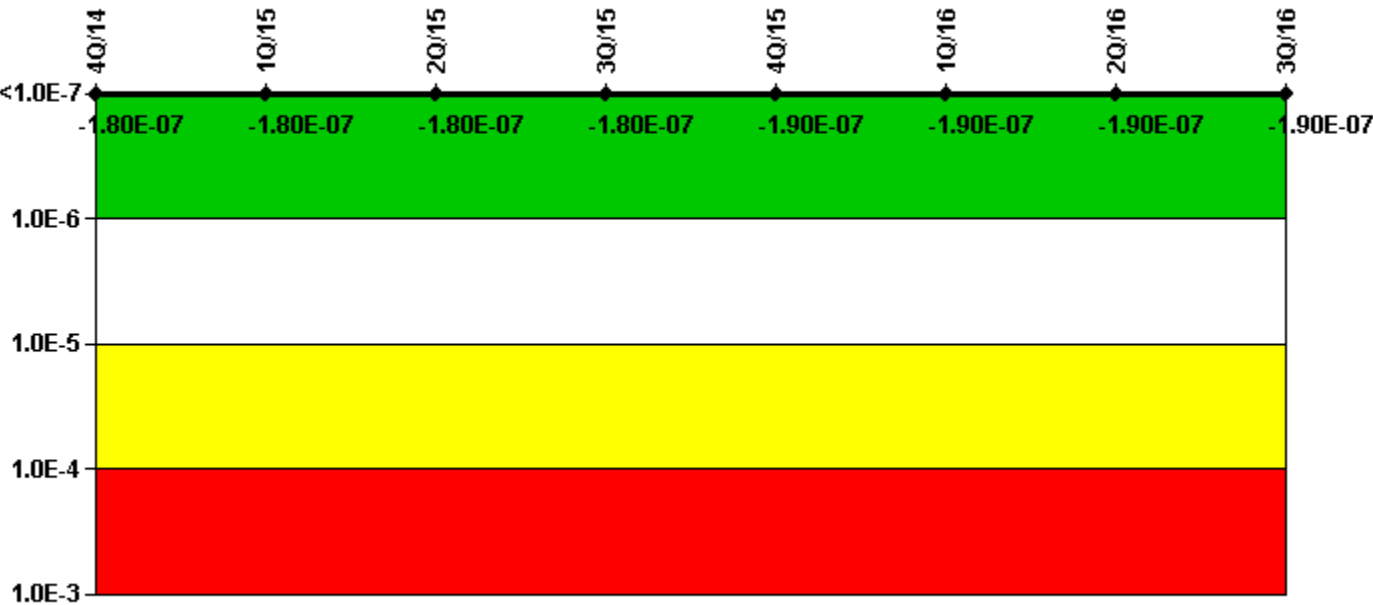
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Safety System Functional Failures	0	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



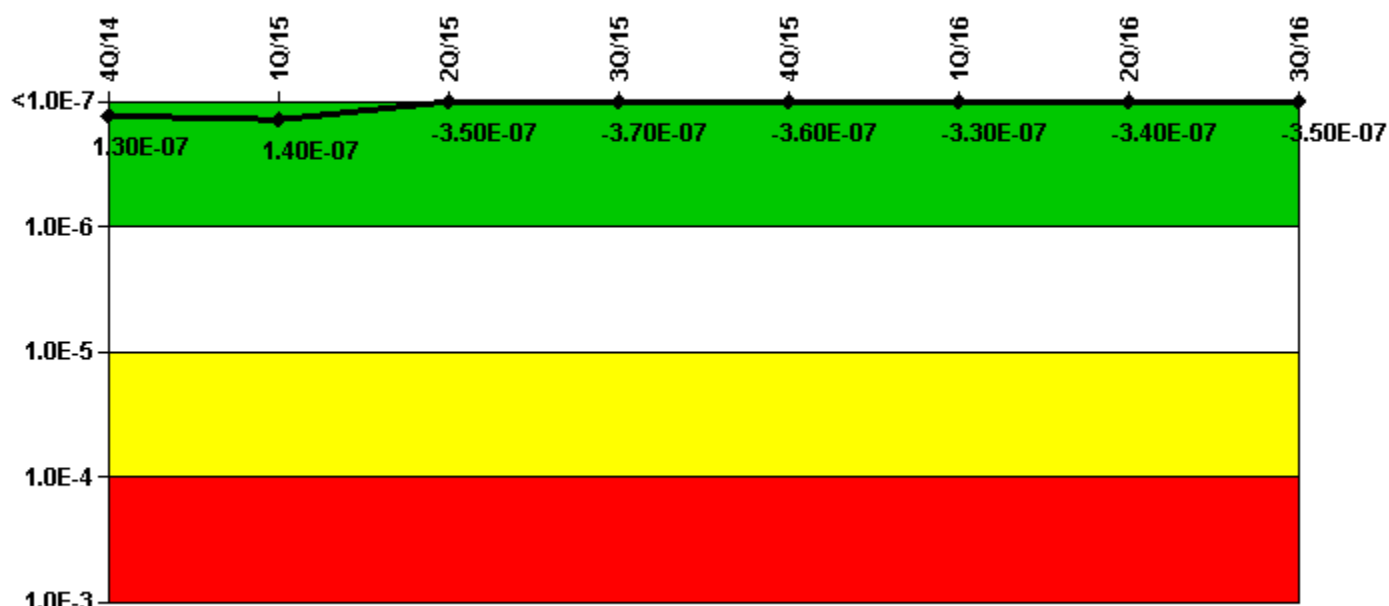
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (ΔCDF)	-1.75E-08	-1.79E-08	-2.02E-08	-2.11E-08	-2.73E-08	-2.73E-08	-2.73E-08	-2.73E-08
URI (ΔCDF)	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	-1.06E-07	-9.92E-08	-8.21E-08	-1.06E-07	-9.31E-08	-6.44E-08	-7.38E-08	-8.83E-08
URI (Δ CDF)	2.35E-07	2.35E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.30E-07	1.40E-07	-3.50E-07	-3.70E-07	-3.60E-07	-3.30E-07	-3.40E-07	-3.50E-07

Licensee Comments:

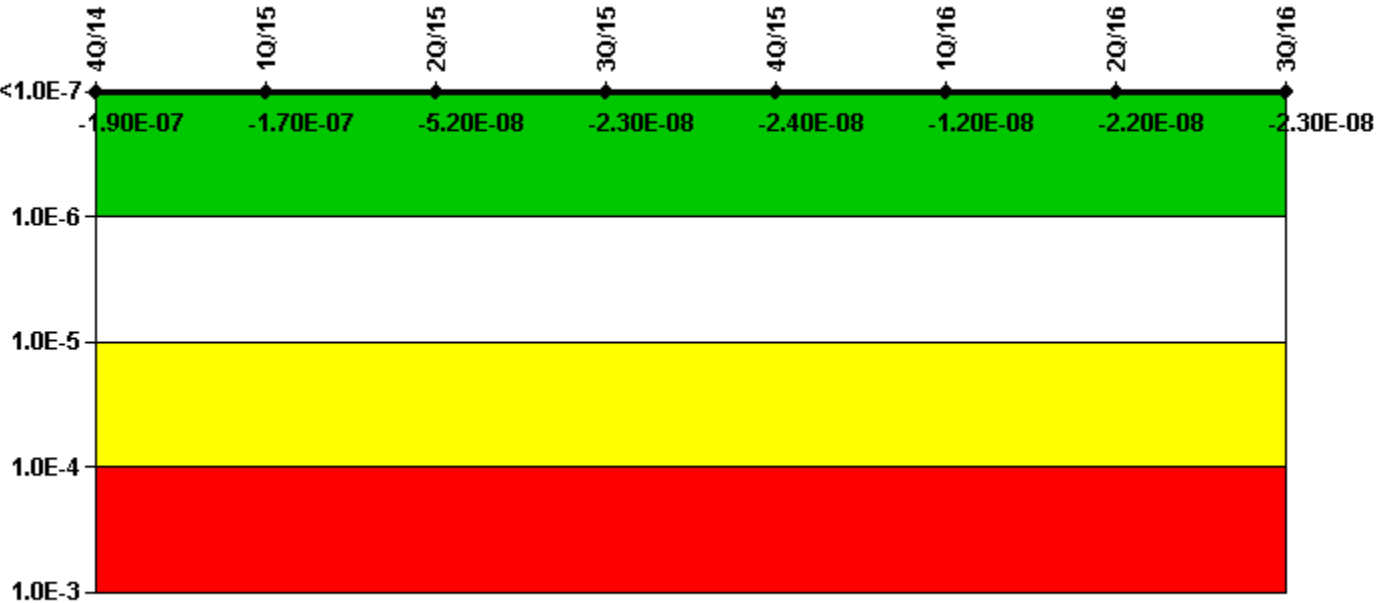
4Q/15: Evaluation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet degradation from September 2015 concluded No MPSI Failure occurred. (Reference CR-PLP-2015-04043)

3Q/15: Evaluation is pending on degradation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet identified in September 2015. (Reference CR-PLP-2015-04043)

1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

Mitigating Systems Performance Index, Heat Removal System



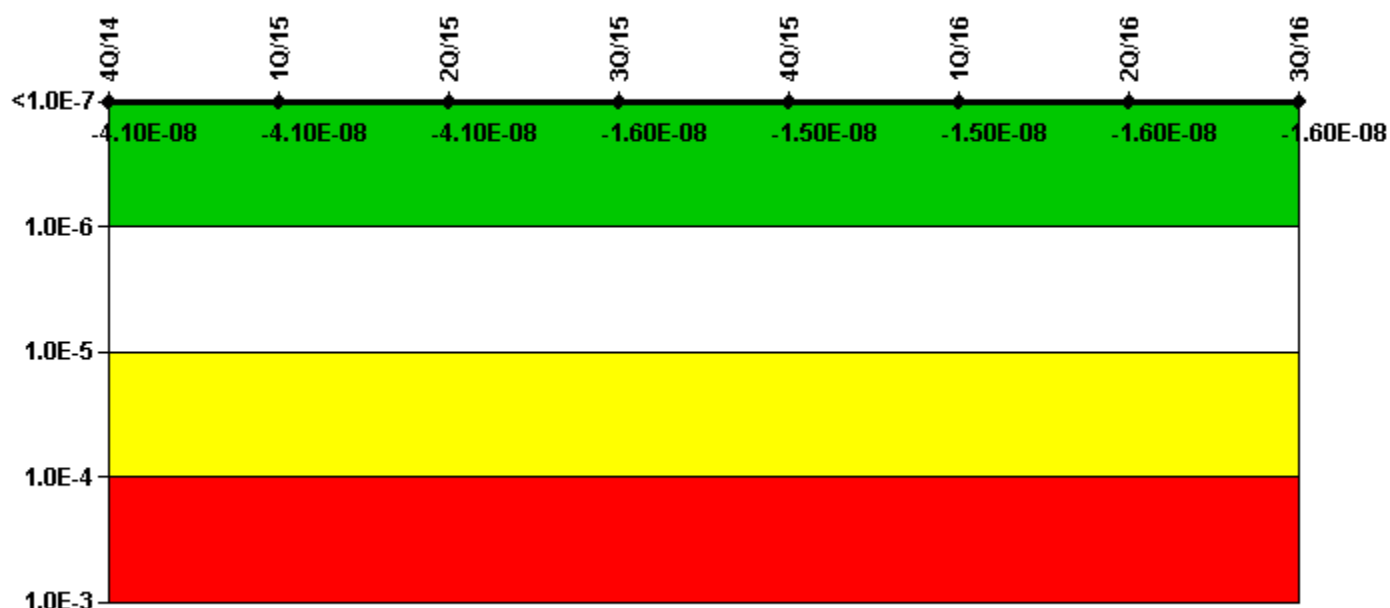
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (ΔCDF)	1.37E-08	3.38E-08	1.48E-07	1.77E-07	1.76E-07	1.89E-07	1.79E-07	1.77E-07
URI (ΔCDF)	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-07	-1.70E-07	-5.20E-08	-2.30E-08	-2.40E-08	-1.20E-08	-2.20E-08	-2.30E-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

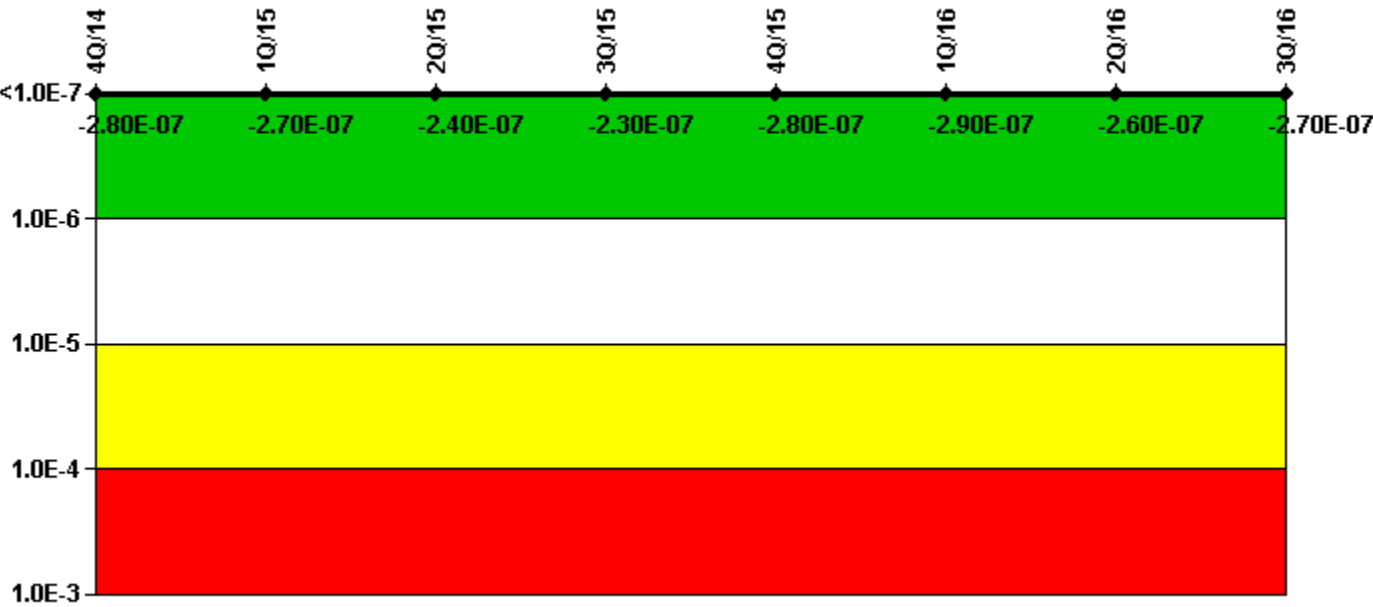
Mitigating Systems Performance Index, Residual Heat Removal System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	-2.90E-10	-2.91E-10	-3.01E-10	2.48E-08	2.52E-08	2.50E-08	2.39E-08	2.39E-08
URI (Δ CDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.10E-08	-4.10E-08	-4.10E-08	-1.60E-08	-1.50E-08	-1.50E-08	-1.60E-08	-1.60E-08

Licensee Comments:

4Q/15: Evaluation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet degradation from September 2015 concluded No MPSI Failure occurred. (Reference CR-PLP-2015-04043)

3Q/15: Evaluation is pending on degradation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet identified in September 2015. (Reference CR-PLP-2015-04043)

Mitigating Systems Performance Index, Cooling Water Systems



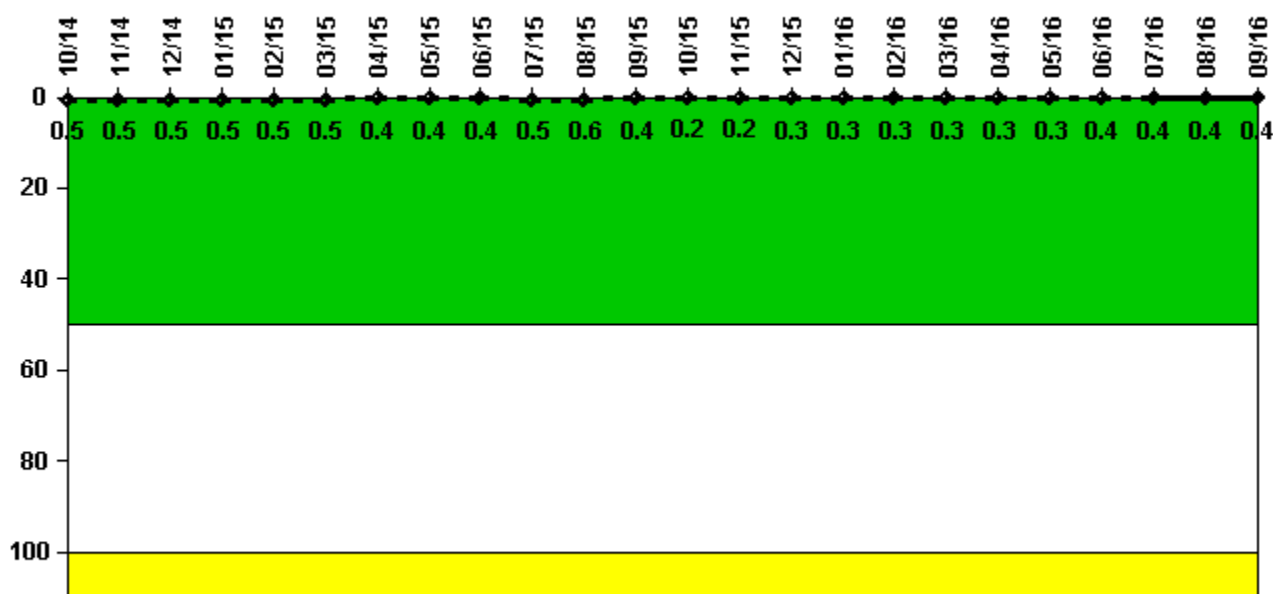
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (ΔCDF)	-5.15E-08	-3.68E-08	-9.34E-09	-1.86E-09	-4.99E-08	-5.46E-08	-3.42E-08	-4.33E-08
URI (ΔCDF)	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.80E-07	-2.70E-07	-2.40E-07	-2.30E-07	-2.80E-07	-2.90E-07	-2.60E-07	-2.70E-07

Licensee Comments: none

Reactor Coolant System Activity



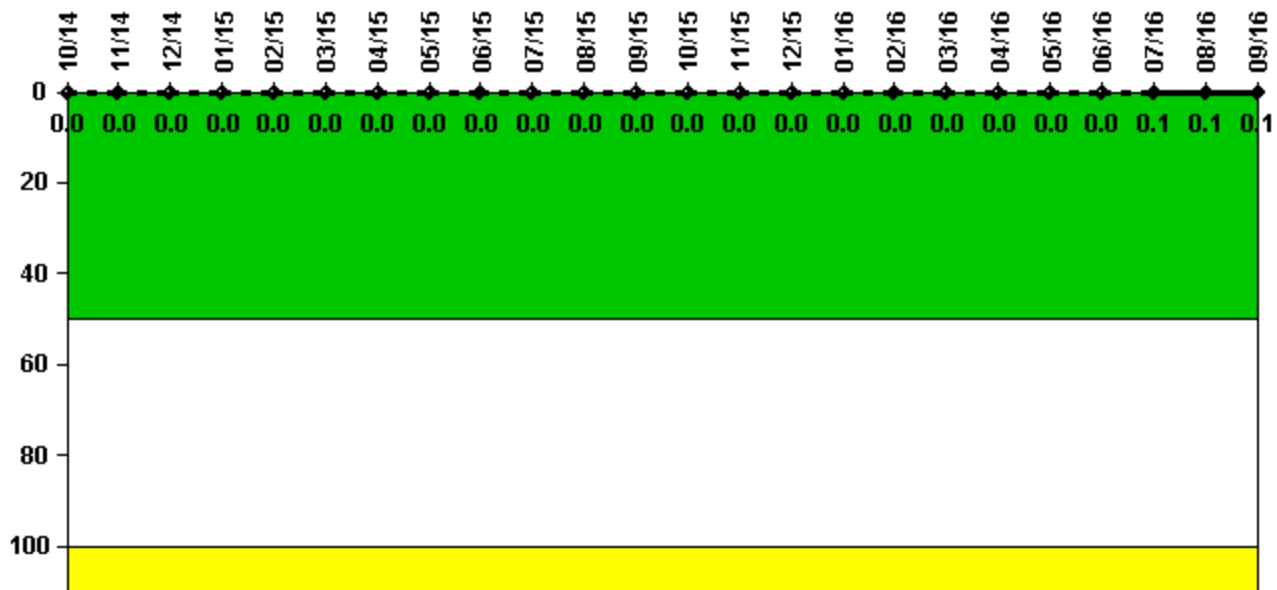
Thresholds: White > 50.0 Yellow > 100.0

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	0.004550	0.004540	0.004820	0.005160	0.005170	0.004910	0.004100	0.004450	0.004110	0.005340	0.005930	0.004120
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.6	0.4
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	0.001920	0.002100	0.002710	0.002940	0.003340	0.003460	0.002720	0.002760	0.003810	0.003750	0.004070	0.004370
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

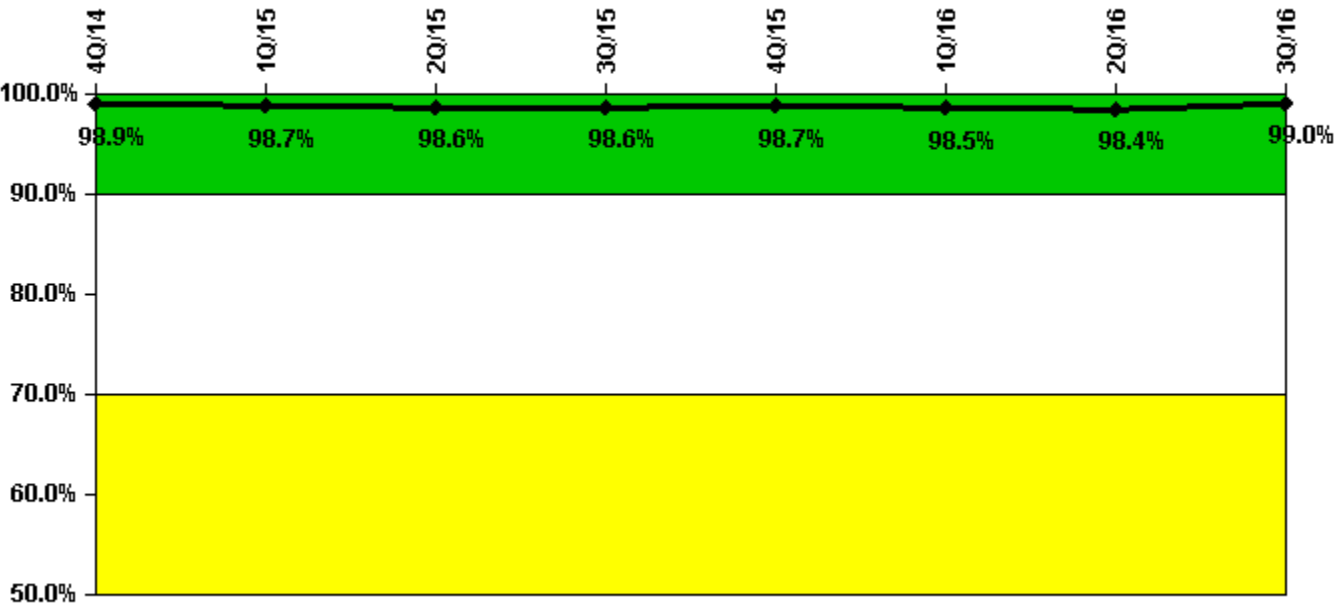
Notes

Reactor Coolant System Leakage	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum leakage	0.003	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0	0	0	0
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Leakage	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum leakage	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.009	0.012	0.012
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1

Licensee Comments: none

Drill/Exercise Performance



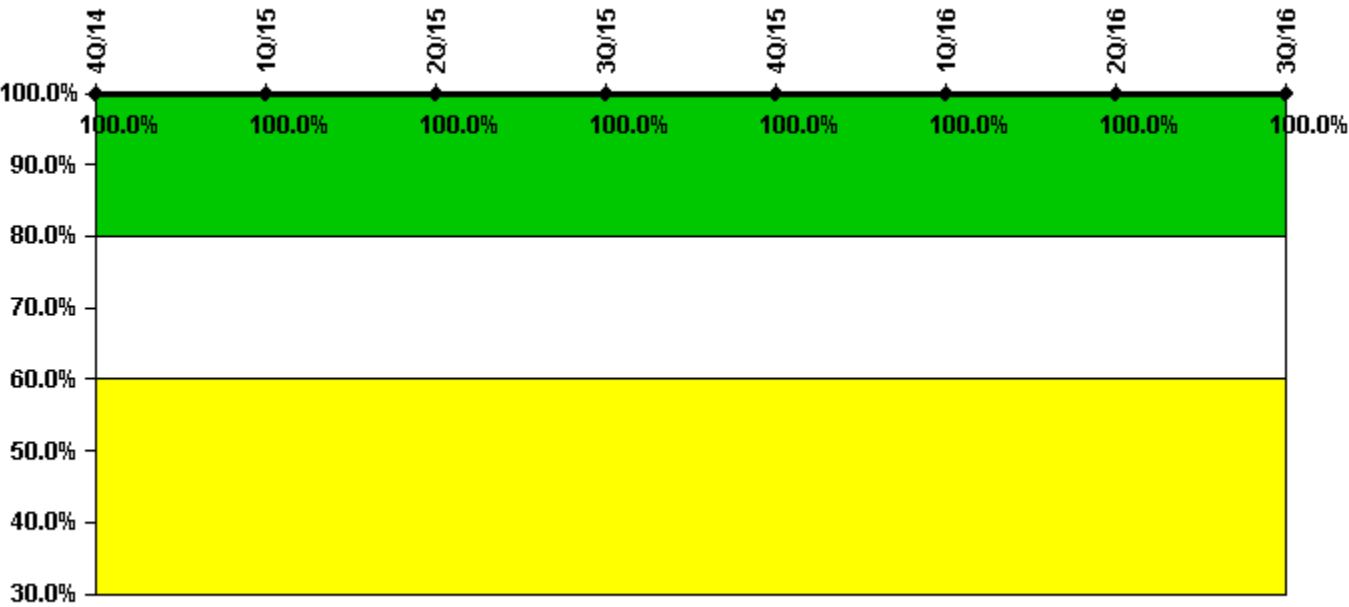
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful opportunities	30.0	80.0	57.0	98.0	66.0	115.0	34.0	16.0
Total opportunities	30.0	81.0	58.0	98.0	66.0	117.0	35.0	16.0
Indicator value	98.9%	98.7%	98.6%	98.6%	98.7%	98.5%	98.4%	99.0%

Licensee Comments: none

ERO Drill Participation



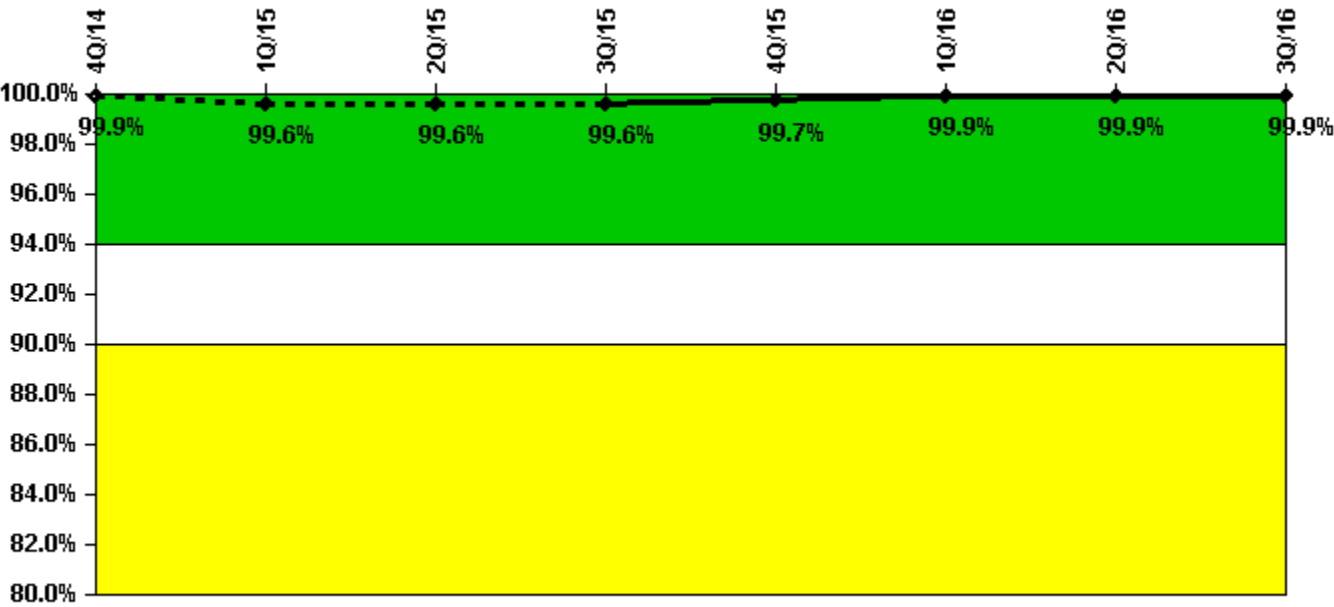
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Participating Key personnel	69.0	68.0	69.0	67.0	68.0	75.0	73.0	72.0
Total Key personnel	69.0	68.0	69.0	67.0	68.0	75.0	73.0	72.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



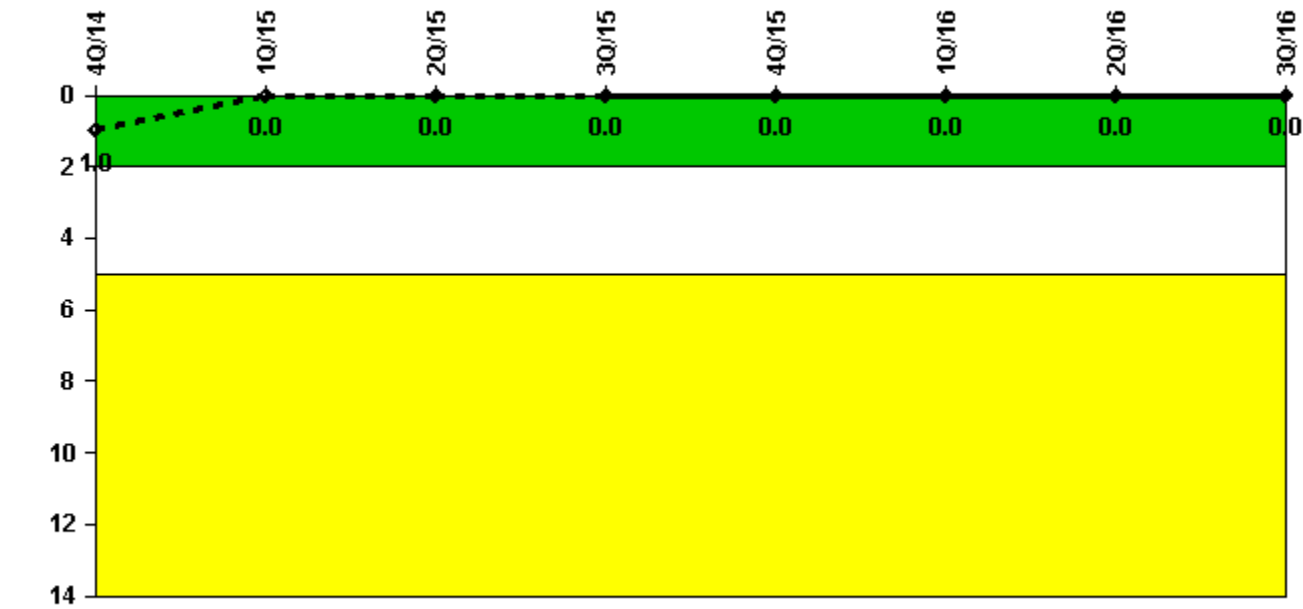
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful siren-tests	182	181	183	183	183	182	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.9%	99.6%	99.6%	99.6%	99.7%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



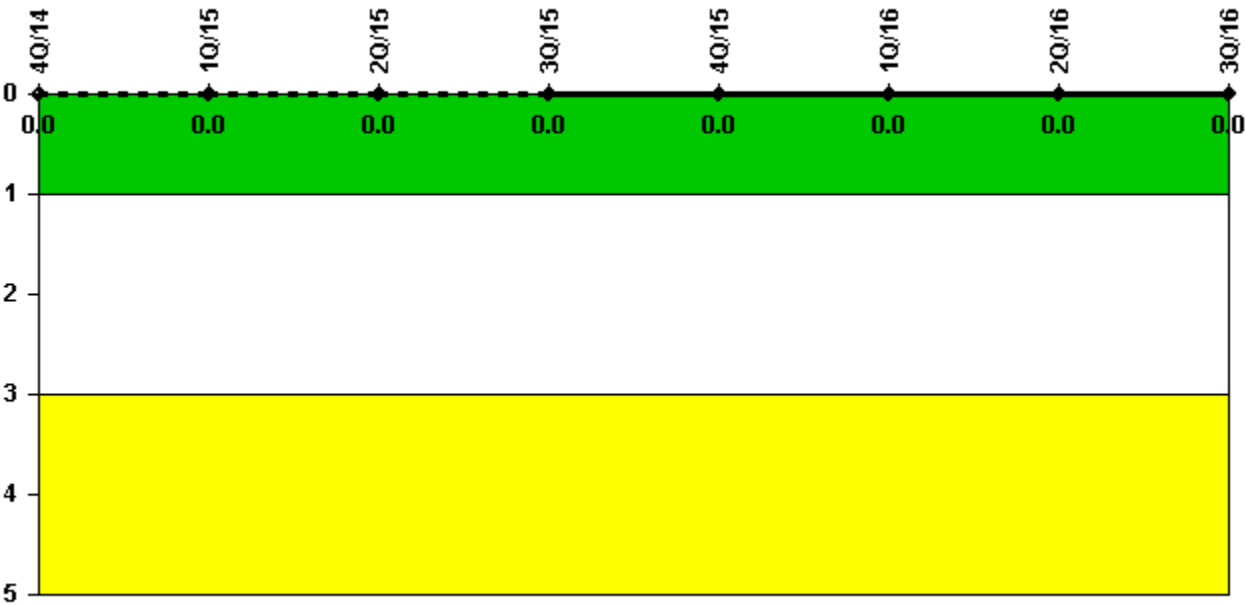
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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	1	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/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

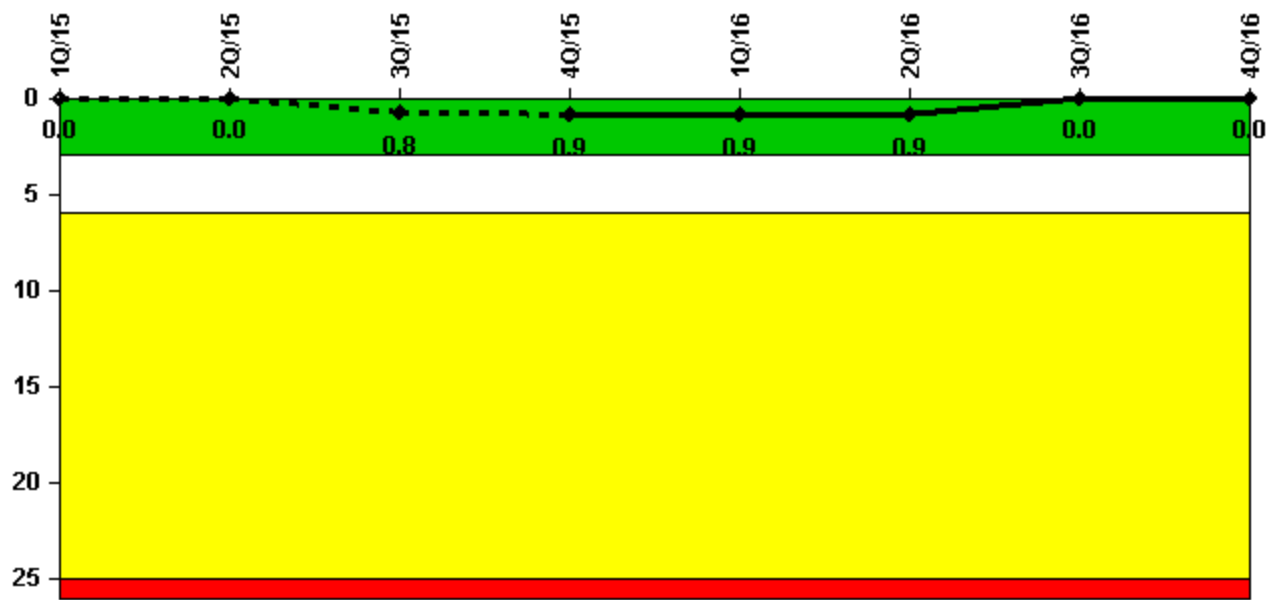
Palisades

4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



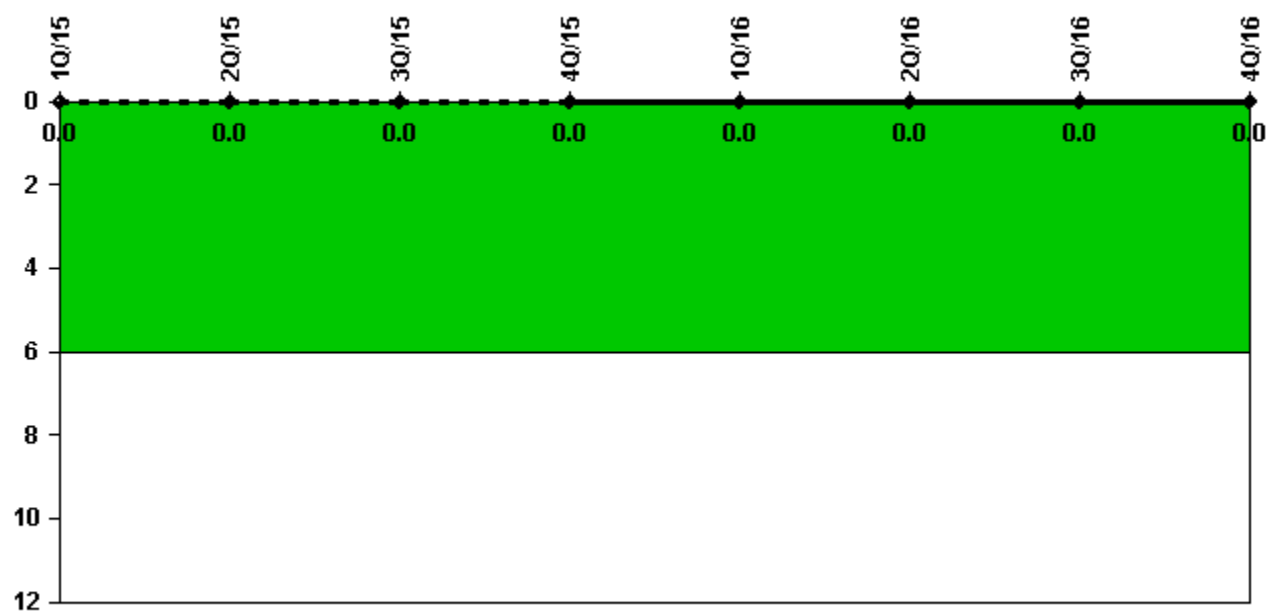
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0
Critical hours	2159.0	2184.0	1849.3	1771.8	2183.0	2184.0	2208.0	2209.0
Indicator value	0	0	0.8	0.9	0.9	0.9	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



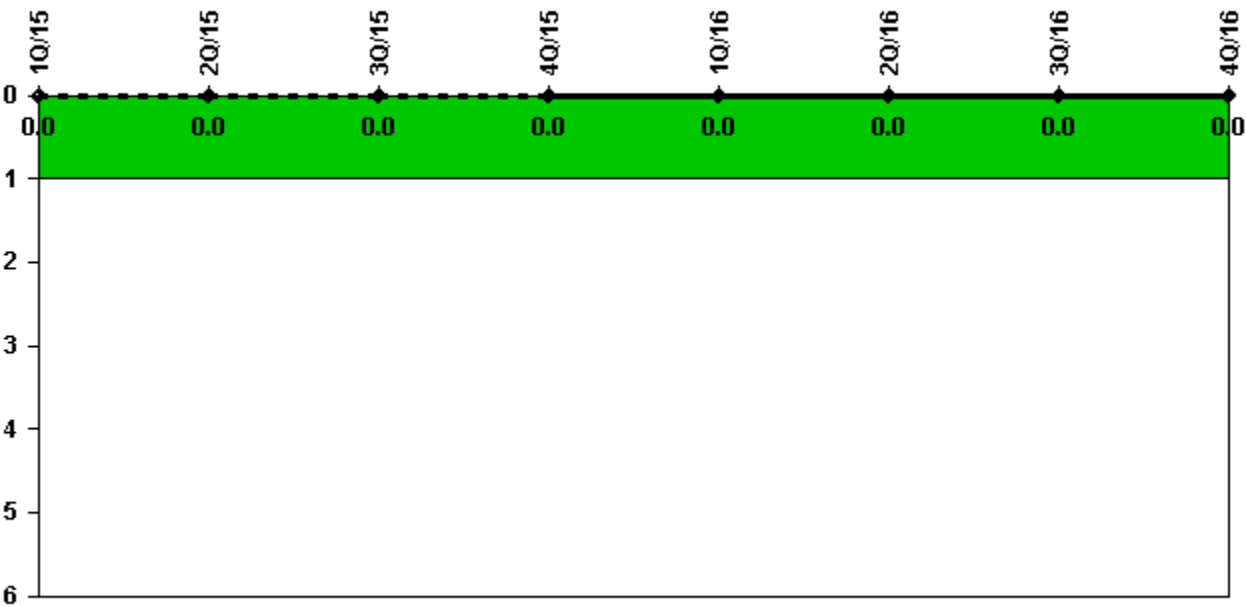
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	1849.3	1771.8	2183.0	2184.0	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



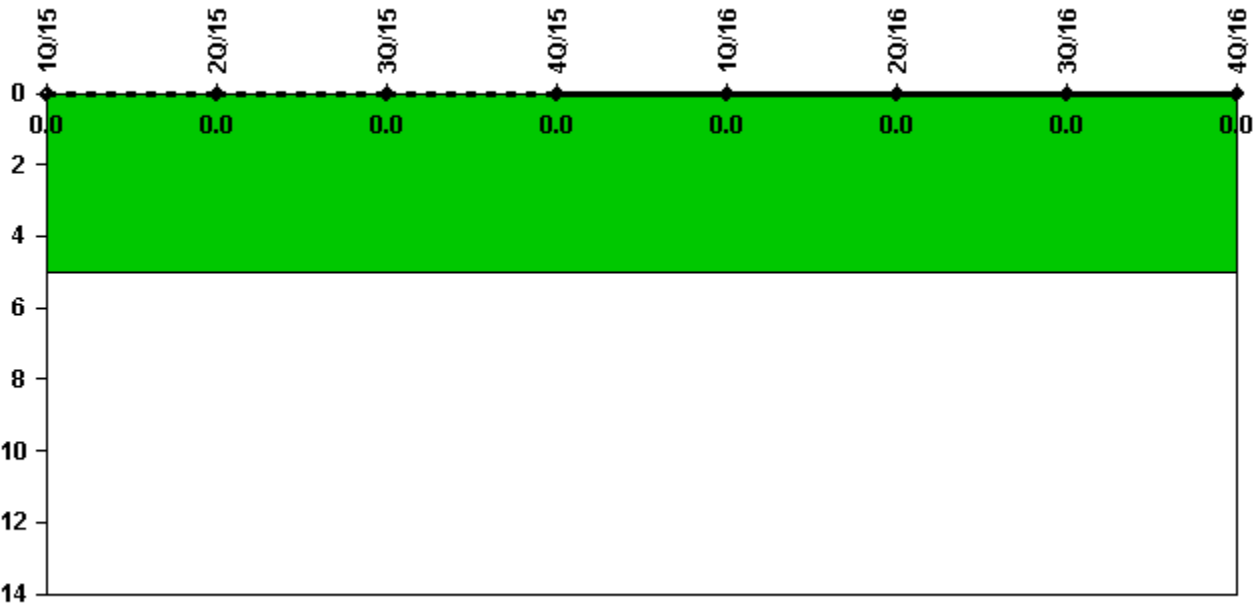
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/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)



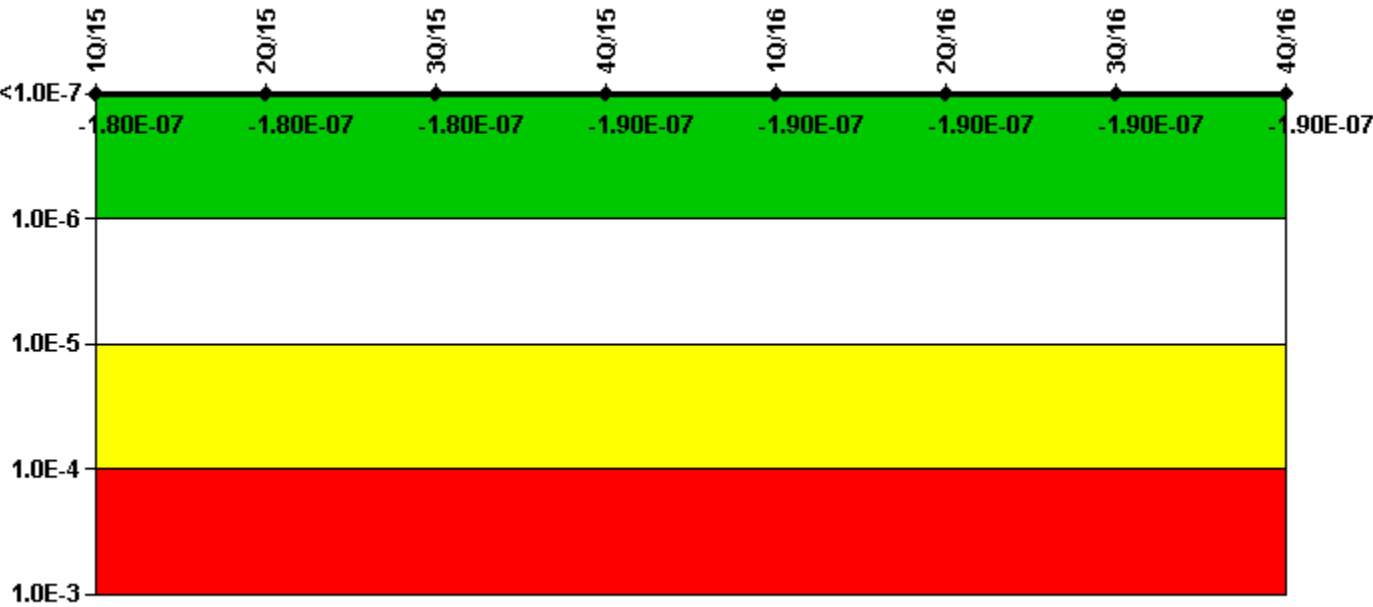
Thresholds: White > 5.0

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	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



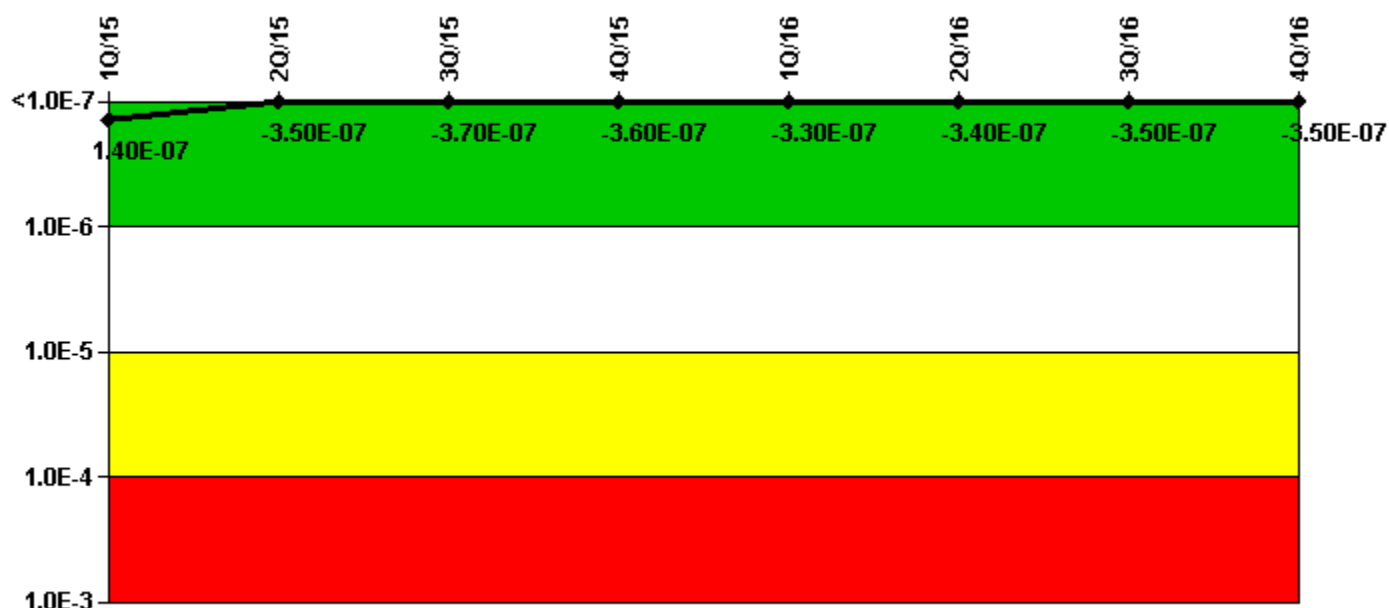
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (ΔCDF)	-1.79E-08	-2.02E-08	-2.11E-08	-2.73E-08	-2.73E-08	-2.73E-08	-2.73E-08	-2.73E-08
URI (ΔCDF)	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.80E-07	-1.80E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-9.92E-08	-8.21E-08	-1.06E-07	-9.31E-08	-6.44E-08	-7.38E-08	-8.83E-08	-8.91E-08
URI (Δ CDF)	2.35E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.40E-07	-3.50E-07	-3.70E-07	-3.60E-07	-3.30E-07	-3.40E-07	-3.50E-07	-3.50E-07

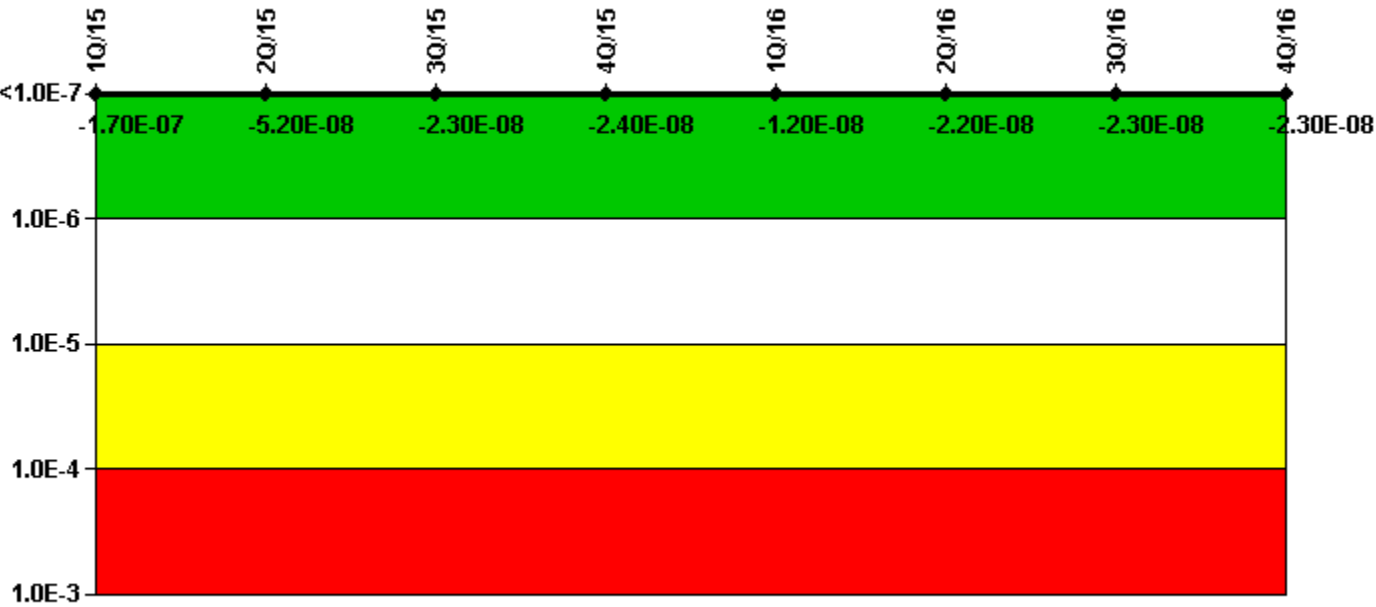
Licensee Comments:

4Q/15: Evaluation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet degradation from September 2015 concluded No MPSI Failure occurred. (Reference CR-PLP-2015-04043)

3Q/15: Evaluation is pending on degradation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet identified in September 2015. (Reference CR-PLP-2015-04043)

1Q/15: Risk Cap Invoked.

Mitigating Systems Performance Index, Heat Removal System



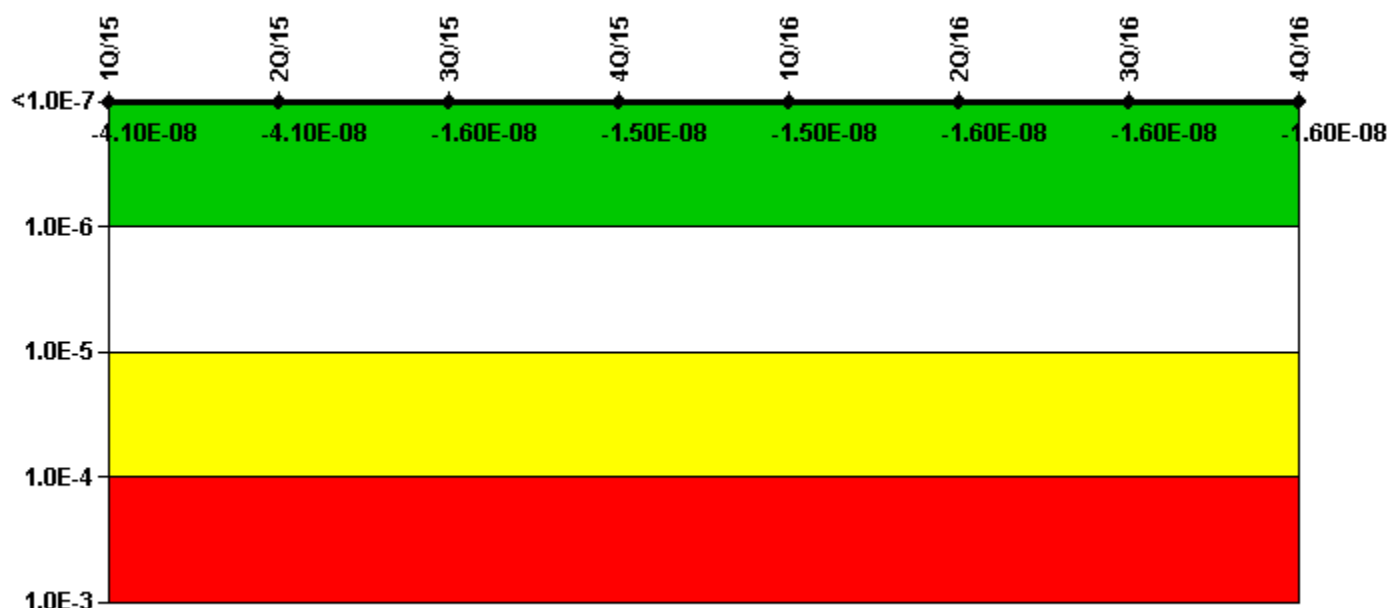
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (ΔCDF)	3.38E-08	1.48E-07	1.77E-07	1.76E-07	1.89E-07	1.79E-07	1.77E-07	1.77E-07
URI (ΔCDF)	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	-5.20E-08	-2.30E-08	-2.40E-08	-1.20E-08	-2.20E-08	-2.30E-08	-2.30E-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

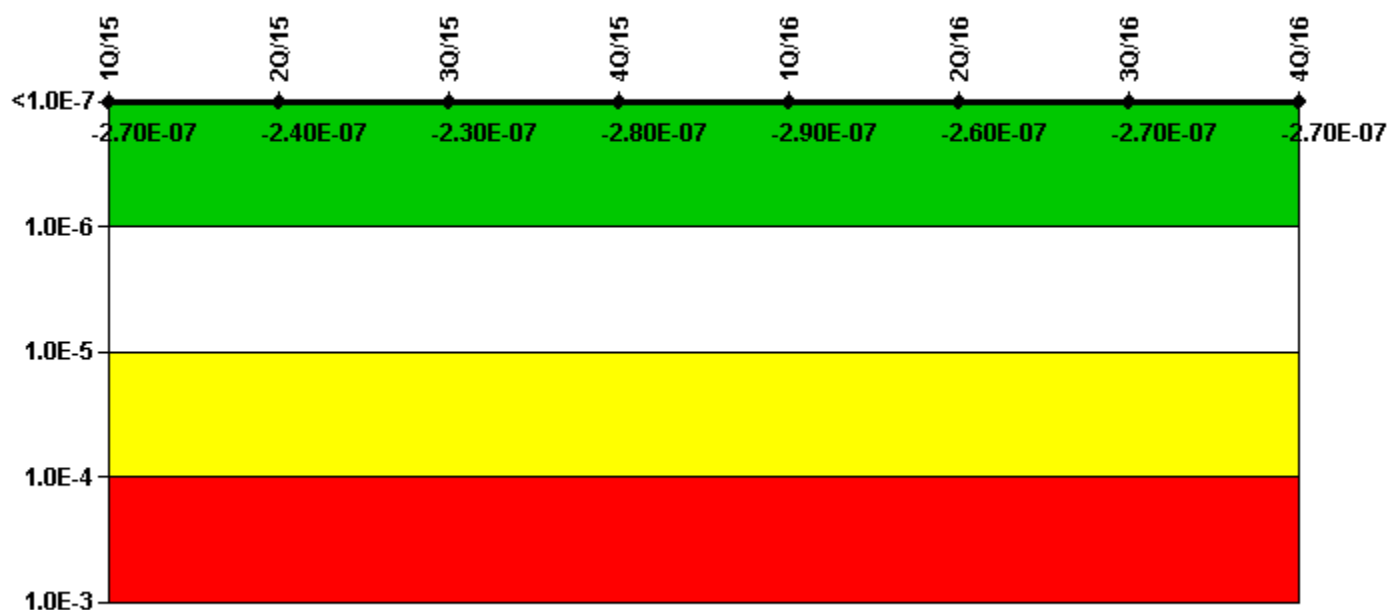
Mitigating Systems Performance Index, Residual Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-2.91E-10	-3.01E-10	2.48E-08	2.52E-08	2.50E-08	2.39E-08	2.39E-08	2.39E-08
URI (Δ CDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.10E-08	-4.10E-08	-1.60E-08	-1.50E-08	-1.50E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments:

4Q/15: Evaluation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet degradation from September 2015 concluded No MPSI Failure occurred. (Reference CR-PLP-2015-04043)

3Q/15: Evaluation is pending on degradation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet identified in September 2015. (Reference CR-PLP-2015-04043)

Mitigating Systems Performance Index, Cooling Water Systems



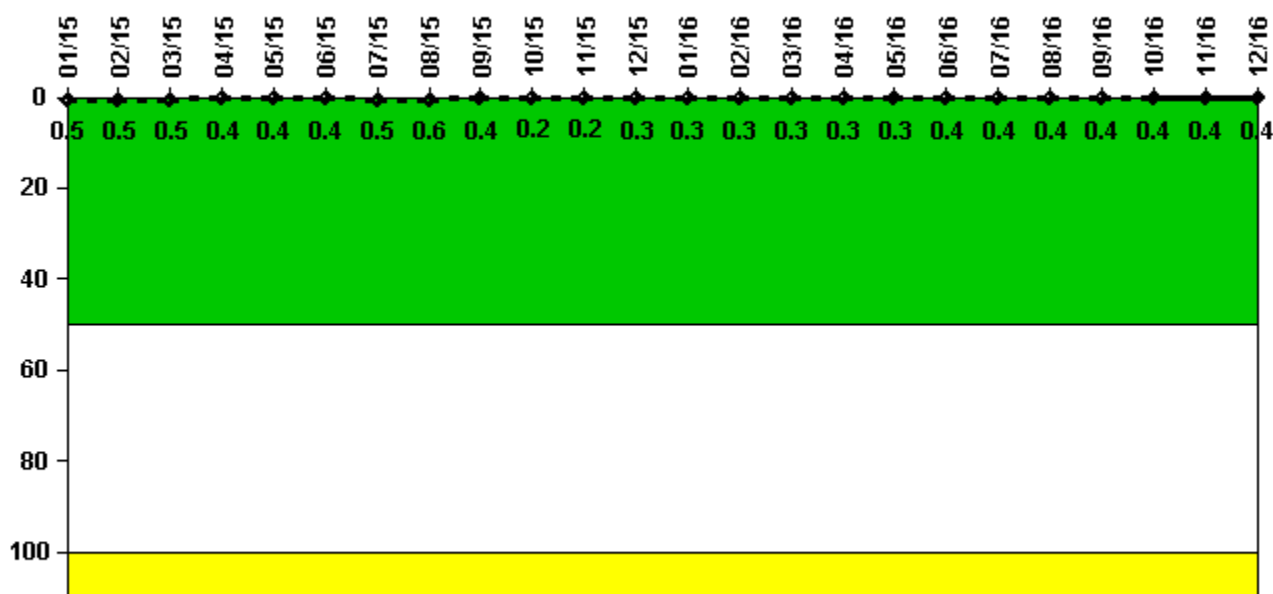
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-3.68E-08	-9.34E-09	-1.86E-09	-4.99E-08	-5.46E-08	-3.42E-08	-4.33E-08	-4.10E-08
URI (Δ CDF)	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.70E-07	-2.40E-07	-2.30E-07	-2.80E-07	-2.90E-07	-2.60E-07	-2.70E-07	-2.70E-07

Licensee Comments: none

Reactor Coolant System Activity



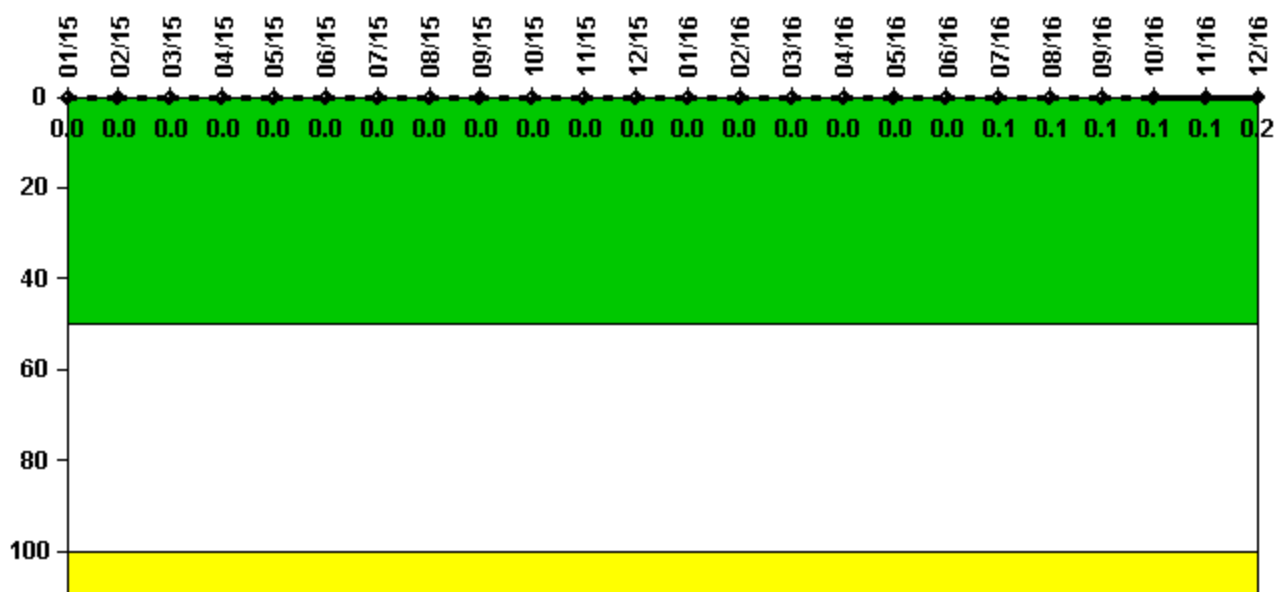
Thresholds: White > 50.0 Yellow > 100.0

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	0.005160	0.005170	0.004910	0.004100	0.004450	0.004110	0.005340	0.005930	0.004120	0.001920	0.002100	0.002710
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.5	0.5	0.5	0.4	0.4	0.4	0.5	0.6	0.4	0.2	0.2	0.3
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	0.002940	0.003340	0.003460	0.002720	0.002760	0.003810	0.003750	0.004070	0.004370	0.003670	0.003652	0.003840
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

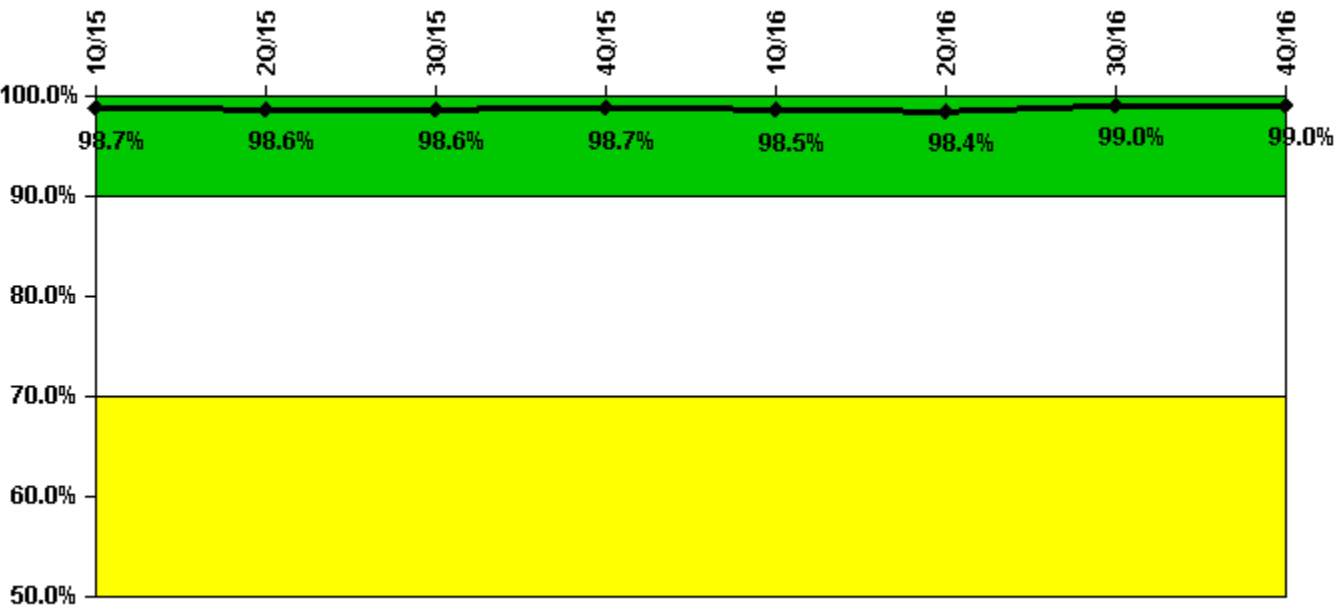
Notes

Reactor Coolant System Leakage	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum leakage	0.001	0.001	0.001	0.001	0.001	0	0	0	0	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Leakage	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	0.001	0.001	0.001	0.001	0.001	0.001	0.009	0.012	0.012	0.012	0.011	0.015
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.2

Licensee Comments: none

Drill/Exercise Performance



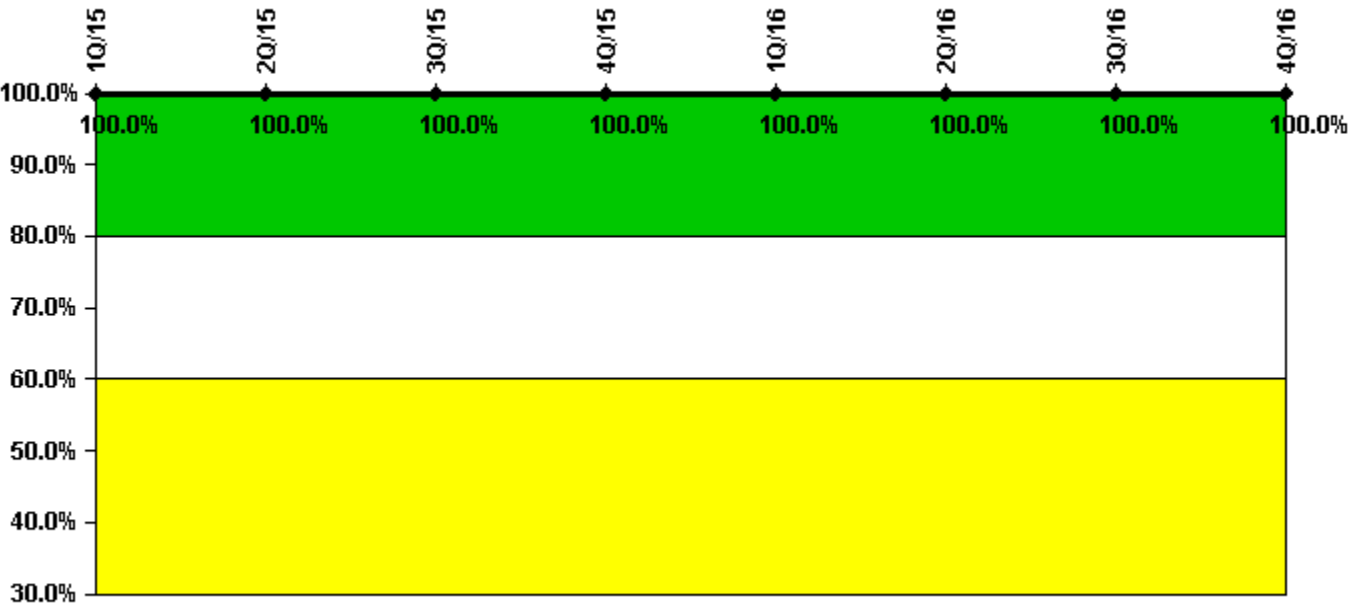
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful opportunities	80.0	57.0	98.0	66.0	115.0	34.0	16.0	17.0
Total opportunities	81.0	58.0	98.0	66.0	117.0	35.0	16.0	17.0
Indicator value	98.7%	98.6%	98.6%	98.7%	98.5%	98.4%	99.0%	99.0%

Licensee Comments: none

ERO Drill Participation



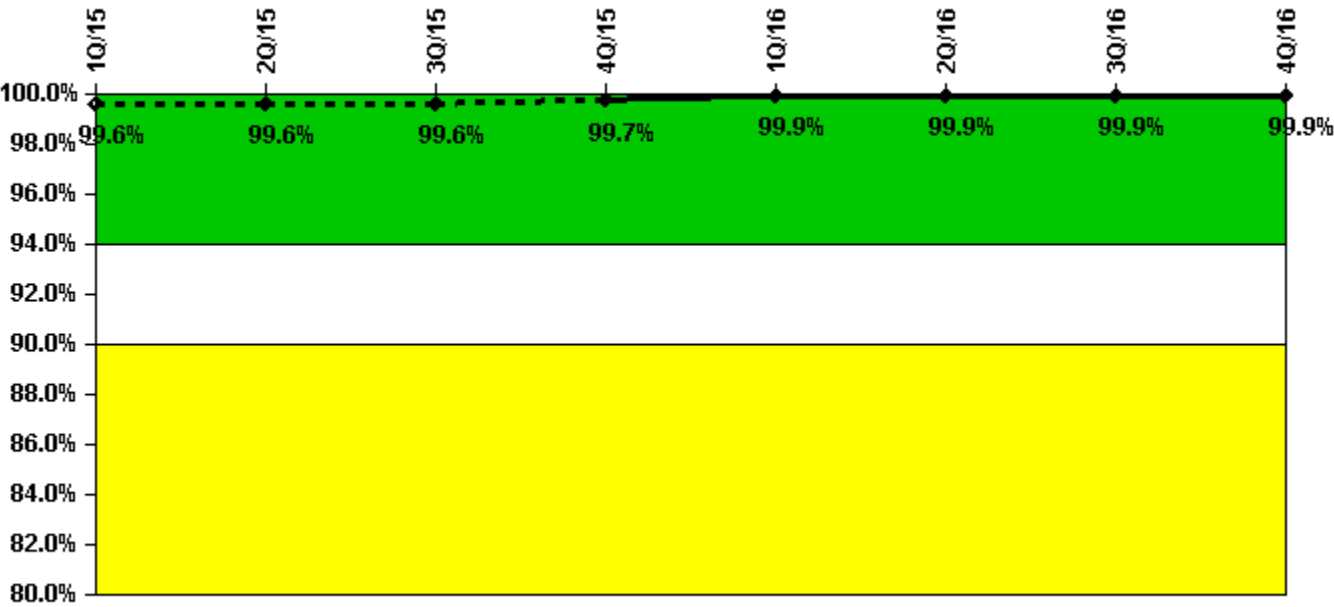
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Participating Key personnel	68.0	69.0	67.0	68.0	75.0	73.0	72.0	68.0
Total Key personnel	68.0	69.0	67.0	68.0	75.0	73.0	72.0	68.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



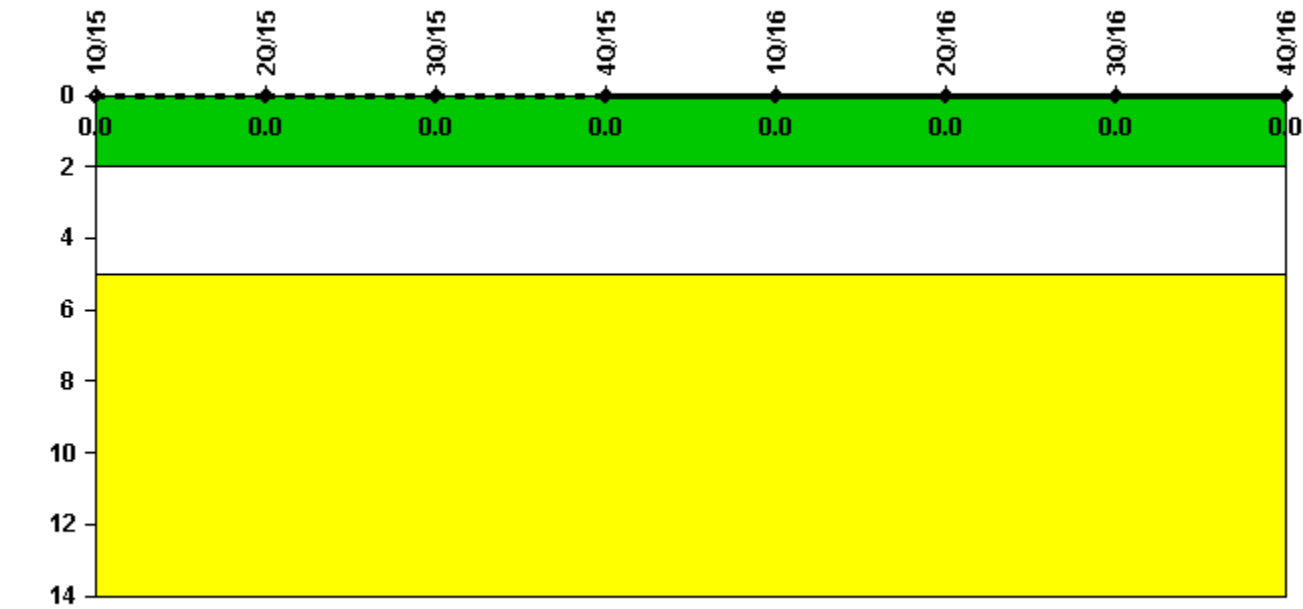
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful siren-tests	181	183	183	183	182	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183
Indicator value	99.6%	99.6%	99.6%	99.7%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



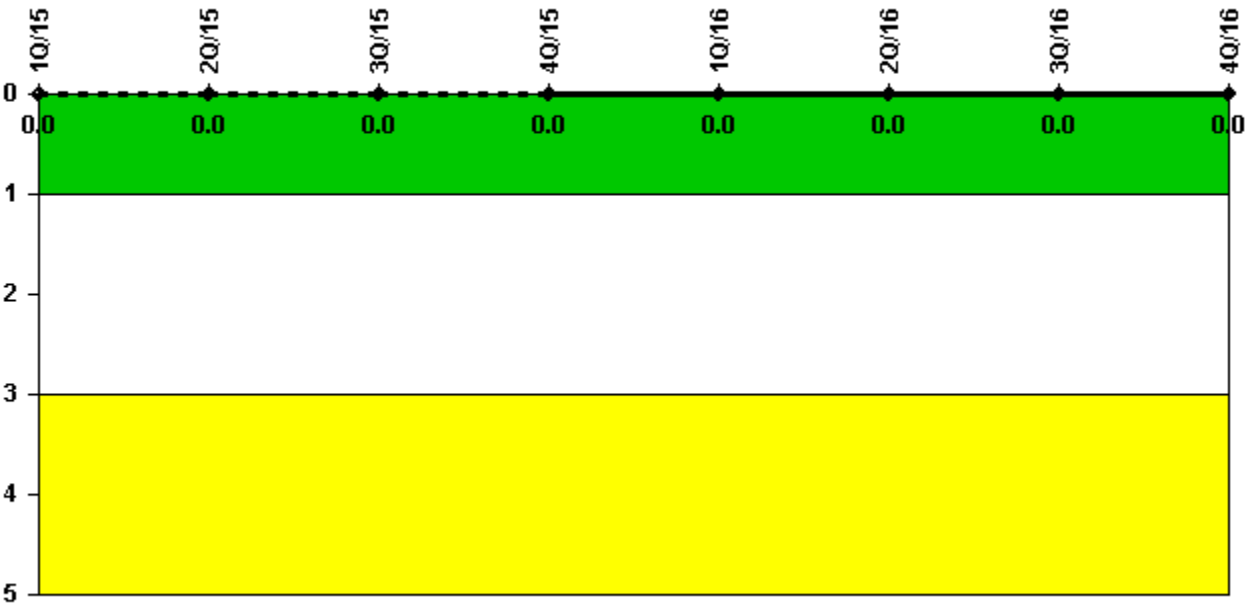
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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



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Palisades – Quarterly Performance Indicators

1Q/2017 Performance Indicators

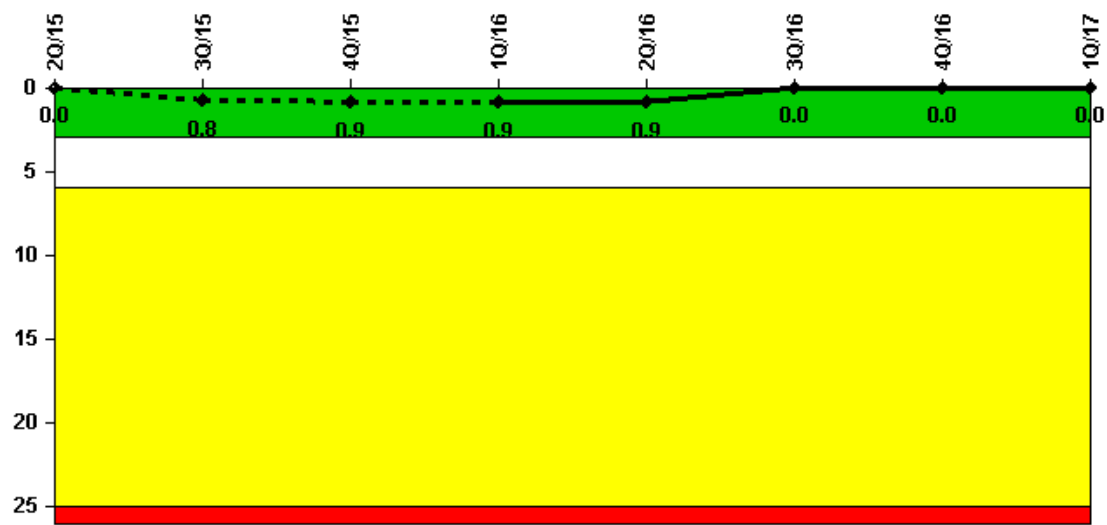
The solid trend line represents the current reporting period.

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/OCDEU Radiological Effluent Occurrence \(PR01\)](#)
- [Protected Area Equipment \(PP01\)](#)

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

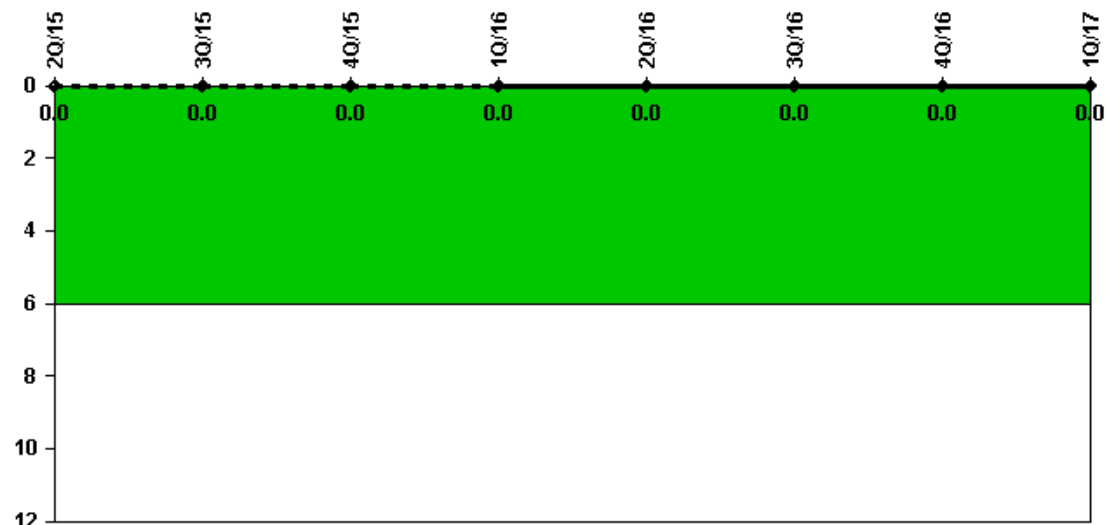
Notes

Unplanned Scrams per 7000 Critical Hrs	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	0	0
Critical hours	2184.0	1849.3	1771.8	2183.0	2184.0	2208.0	2209.0	2030.7
Indicator value	0	0.8	0.9	0.9	0.9	0	0	0

TOP

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

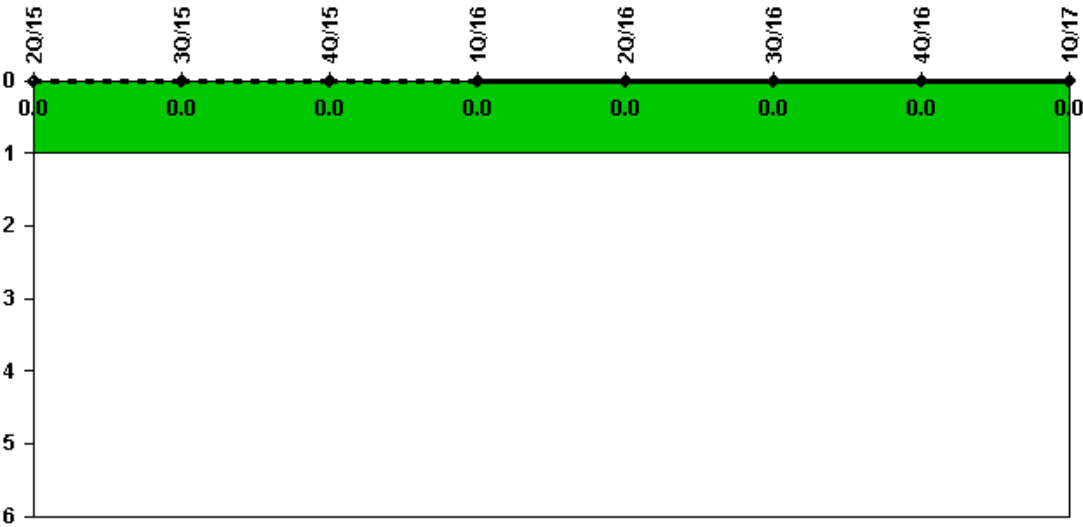
Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2184.0	1849.3	1771.8	2183.0	2184.0	2208.0	2209.0	2030.7
Indicator value	0	0	0	0	0	0	0	0

TOP

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

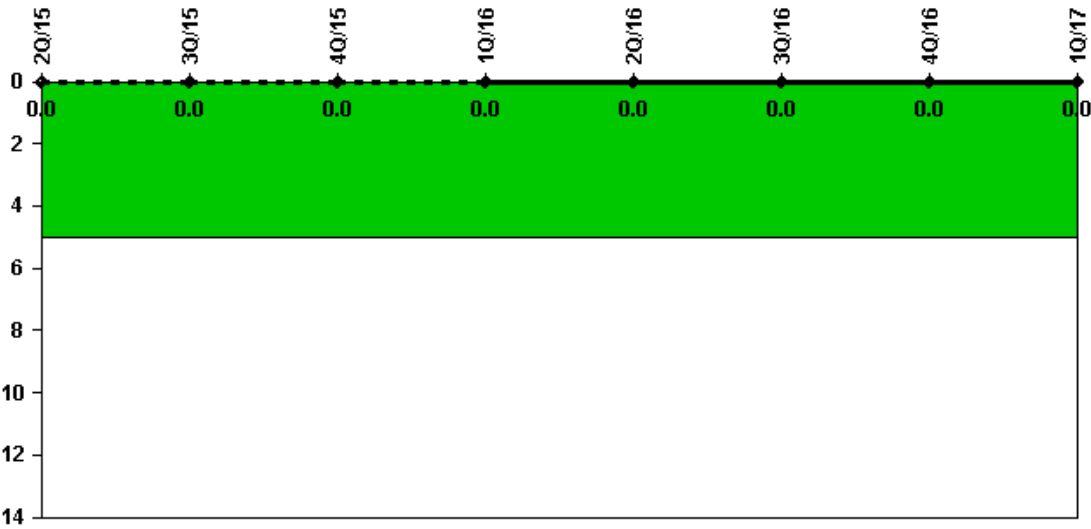
Notes

Unplanned Scrams with Complications	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

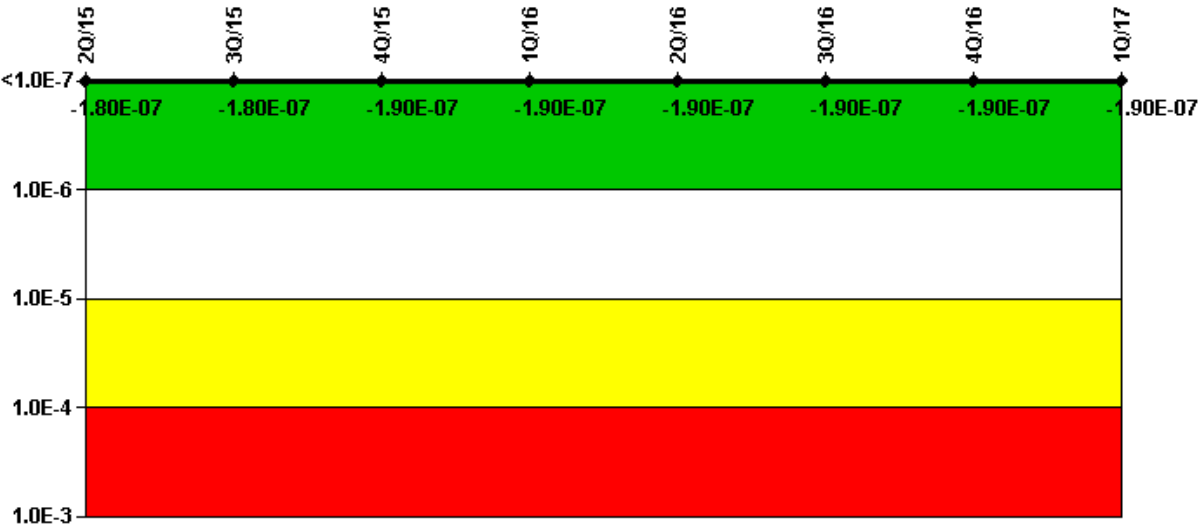
Safety System Functional Failures (PWR)	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Safety System Functional Failures	0	0	0	0	0	0	0	0

Indicator value	0	0	0	0	0	0	0	0

TOP

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

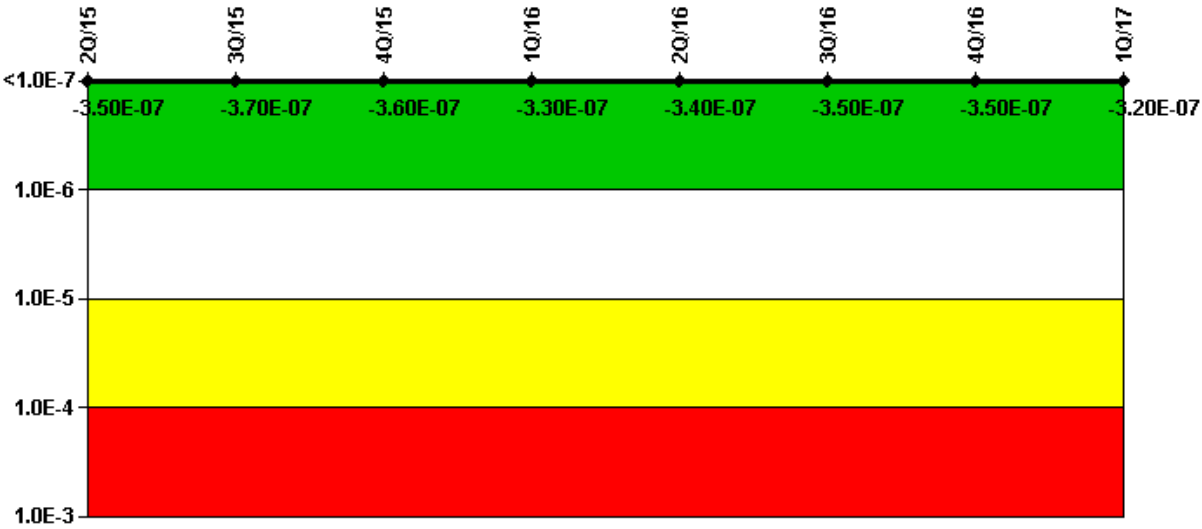
Mitigating Systems Performance Index, Emergency
AC Power System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-2.02E-08	-2.11E-08	-2.73E-08	-2.73E-08	-2.73E-08	-2.73E-08	-2.73E-08	-2.62E-08
URI (ΔCDF)	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.80E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-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

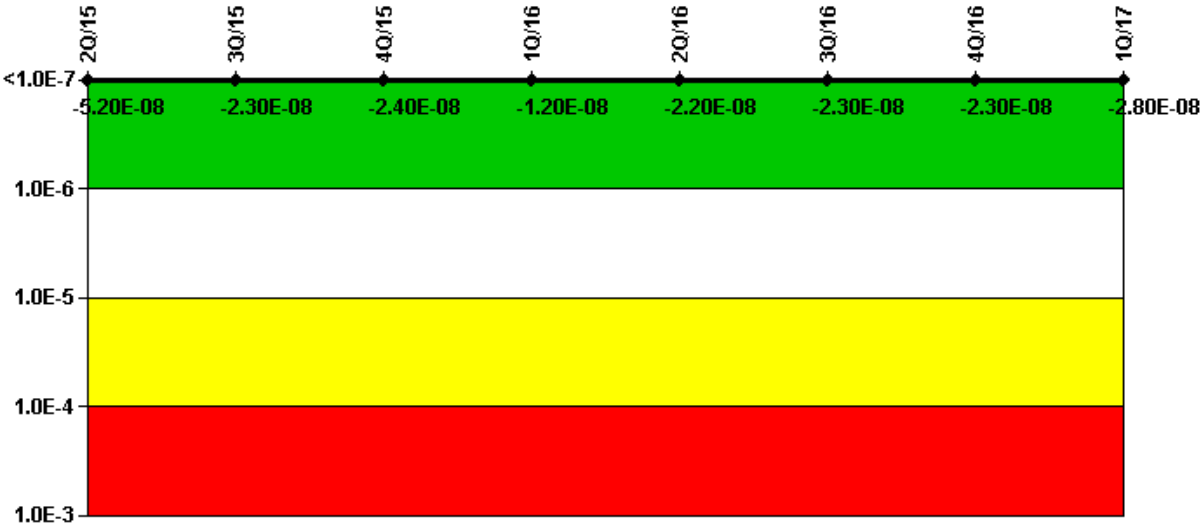
	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-8.21E-08	-1.06E-07	-9.31E-08	-6.44E-08	-7.38E-08	-8.83E-08	-8.91E-08	-5.27E-08
URI (ΔCDF)	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.50E-07	-3.70E-07	-3.60E-07	-3.30E-07	-3.40E-07	-3.50E-07	-3.50E-07	-3.20E-07

TOP

Licensee Comments:

4Q/15: Evaluation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet degradation from September 2015 concluded No MPSI Failure occurred. (Reference CR-PLP-2015-04043)
3Q/15: Evaluation is pending on degradation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet identified in September 2015. (Reference CR-PLP-2015-04043)

Mitigating Systems Performance Index, Heat Removal System



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

Notes

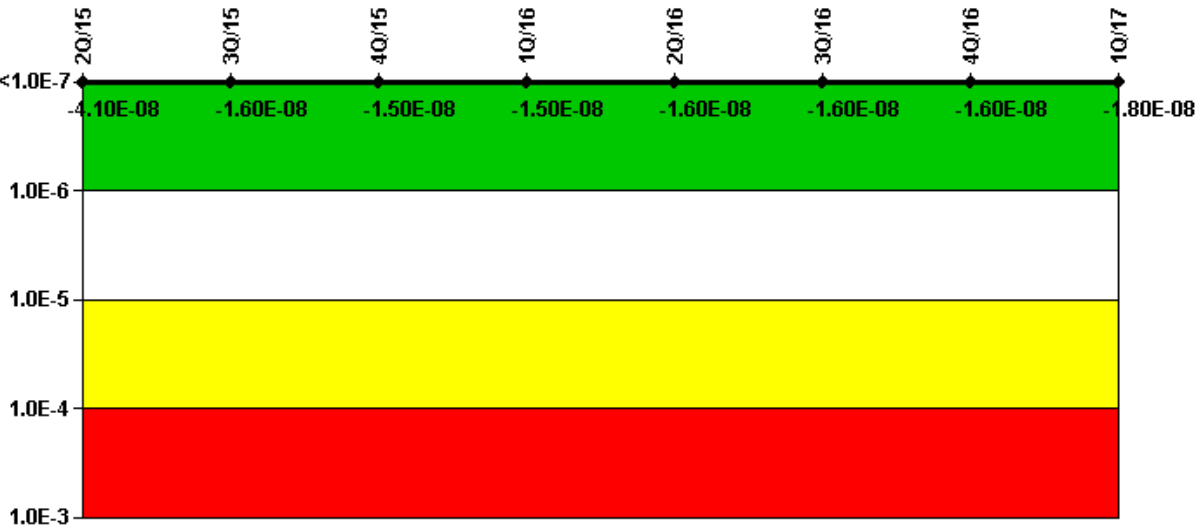
Mitigating Systems Performance Index, Heat Removal System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	1.48E-07	1.77E-07	1.76E-07	1.89E-07	1.79E-07	1.77E-07	1.77E-07	1.73E-07
URI (ΔCDF)	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.20E-08	-2.30E-08	-2.40E-08	-1.20E-08	-2.20E-08	-2.30E-08	-2.30E-08	-2.80E-08

TOP

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-3.01E-10	2.48E-08	2.52E-08	2.50E-08	2.39E-08	2.39E-08	2.39E-08	2.28E-08
URI (ΔCDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.10E-08	-1.60E-08	-1.50E-08	-1.50E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.80E-08

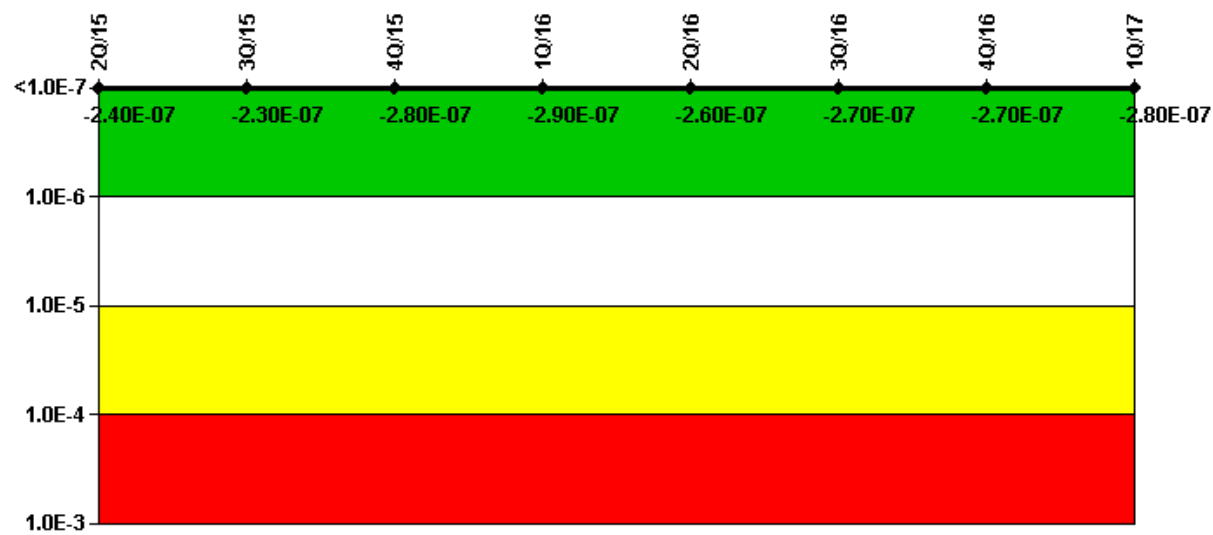
TOP

Licensee Comments:

4Q/15: Evaluation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet degradation from September 2015 concluded No MPSI Failure occurred. (Reference CR-PLP-2015-04043)

3Q/15: Evaluation is pending on degradation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet identified in September 2015. (Reference CR-PLP-2015-04043)

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

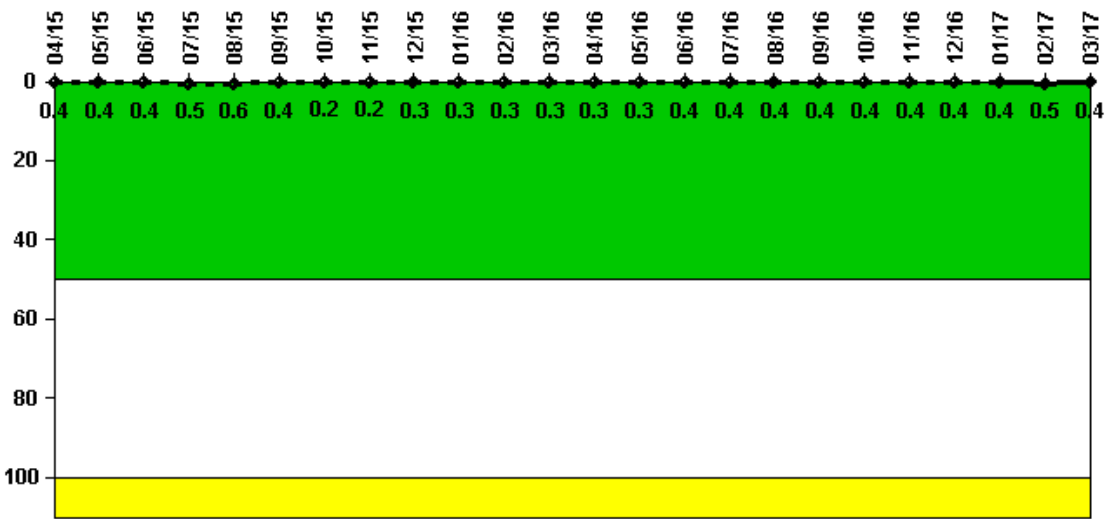
Mitigating Systems Performance Index, Cooling Water Systems

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-9.34E-09	-1.86E-09	-4.99E-08	-5.46E-08	-3.42E-08	-4.33E-08	-4.10E-08	-4.94E-08
URI (ΔCDF)	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-07	-2.30E-07	-2.80E-07	-2.90E-07	-2.60E-07	-2.70E-07	-2.70E-07	-2.80E-07

TOP

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

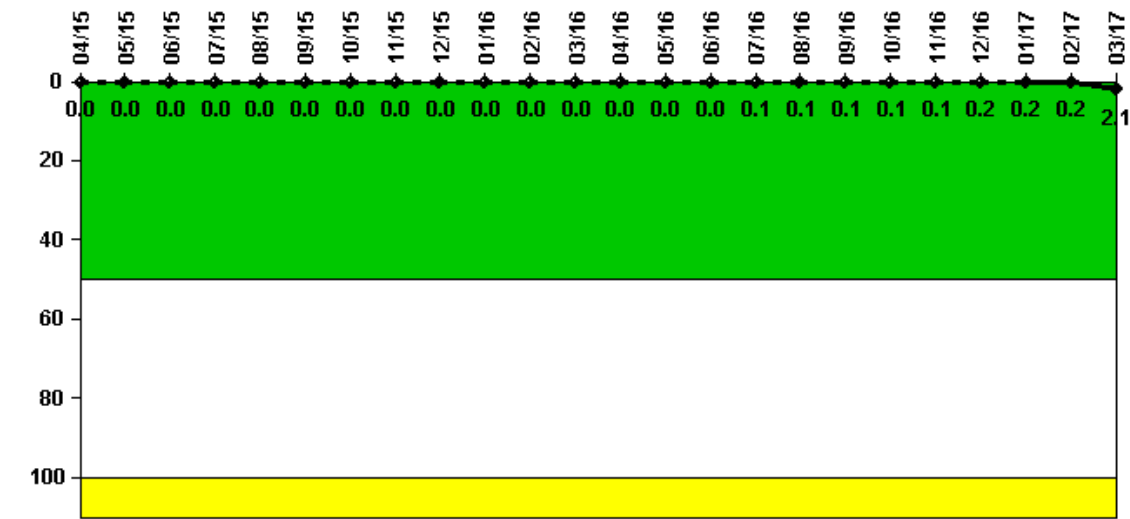
Reactor Coolant System Activity	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum activity	0.004100	0.004450	0.004110	0.005340	0.005930	0.004120	0.001920	0.002100	0.002710	0.002940	0.003340	0.003460
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.4	0.4	0.5	0.6	0.4	0.2	0.2	0.3	0.3	0.3	0.3

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	0.002720	0.002760	0.003810	0.003750	0.004070	0.004370	0.003670	0.003652	0.003840	0.003920	0.004763	0.003826
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4

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	0.001	0.001	0	0	0	0	0.001	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

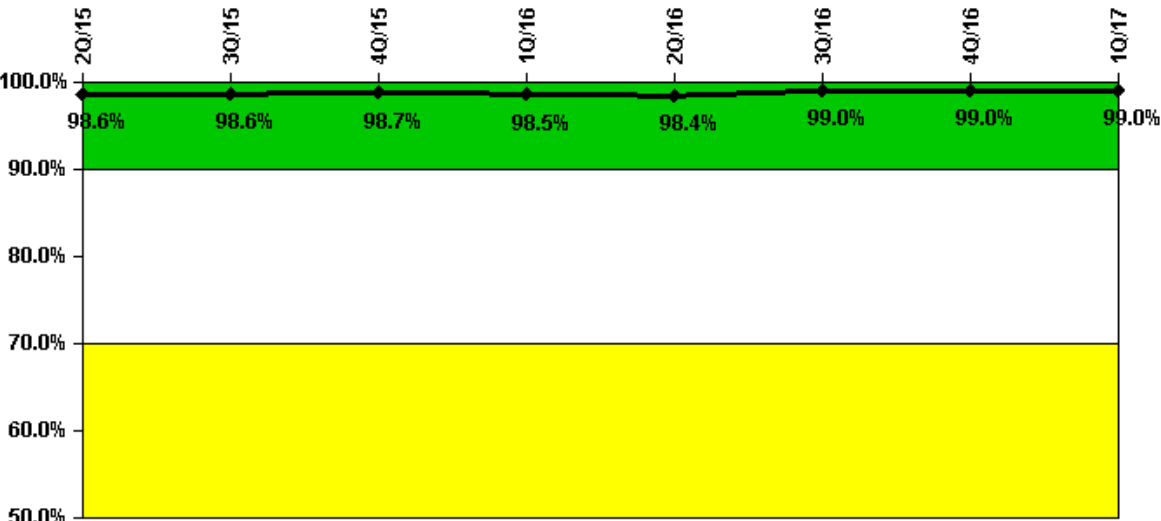
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Leakage	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum leakage	0.001	0.001	0.001	0.009	0.012	0.012	0.012	0.011	0.015	0.016	0.016	0.211
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Indicator value	0	0	0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	2.1

TOP

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

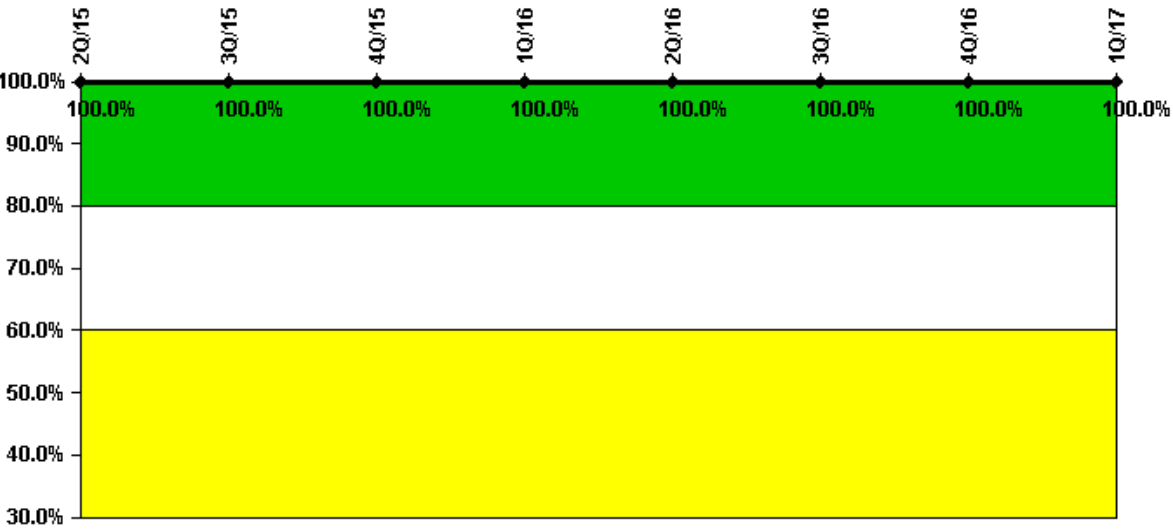
Drill/Exercise Performance	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful opportunities	57.0	98.0	66.0	115.0	34.0	16.0	17.0	69.0
Total opportunities	58.0	98.0	66.0	117.0	35.0	16.0	17.0	70.0

Indicator value 98.6% 98.6% 98.7% 98.5% 98.4% 99.0% 99.0% 99.0%

TOP

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

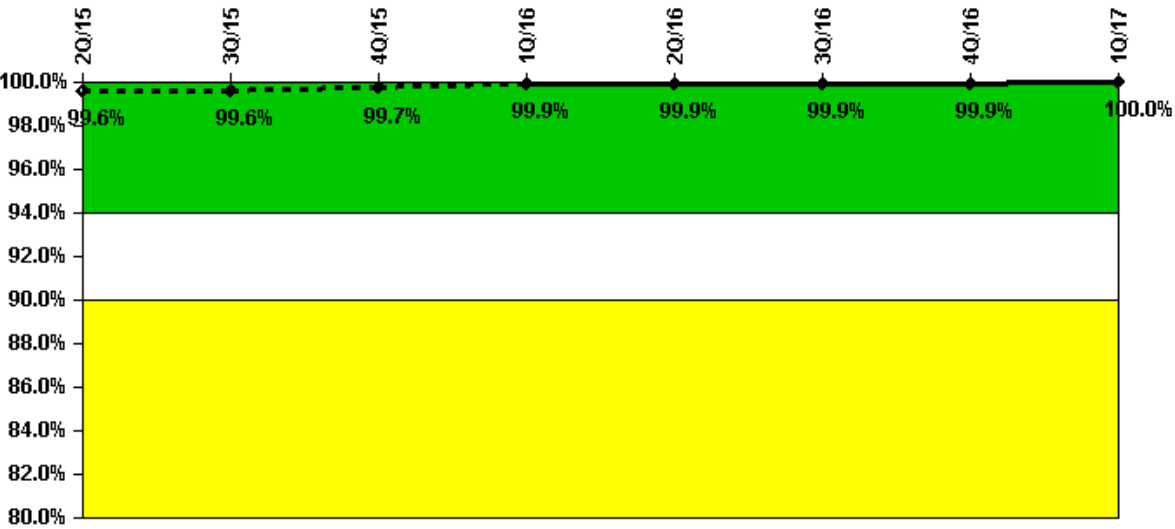
ERO Drill Participation	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Participating Key personnel	69.0	67.0	68.0	75.0	73.0	72.0	68.0	72.0
Total Key personnel	69.0	67.0	68.0	75.0	73.0	72.0	68.0	72.0

Indicator value 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%

TOP

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

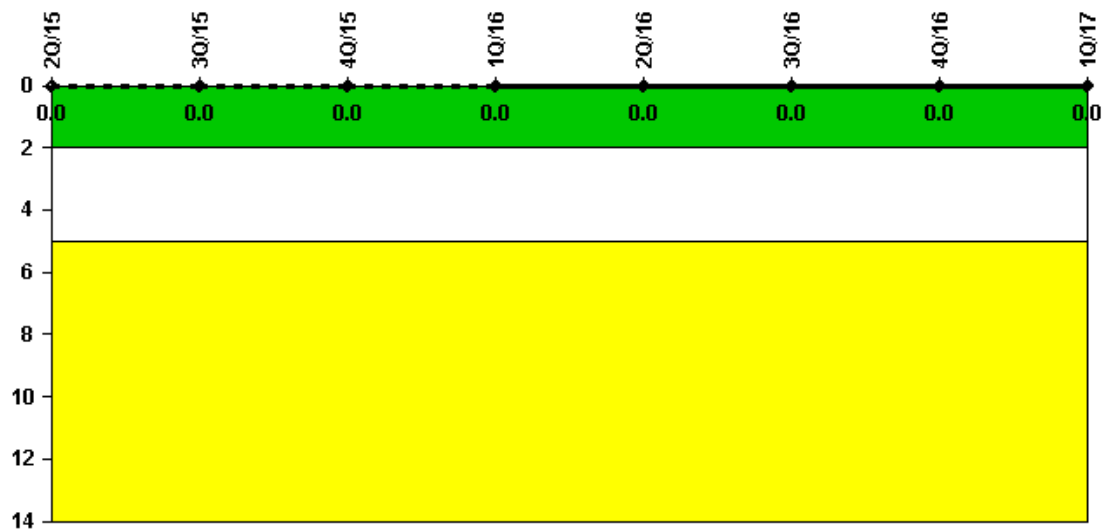
Alert & Notification System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful siren-tests	183	183	183	182	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183

Indicator value 99.6% 99.6% 99.7% 99.9% 99.9% 99.9% 99.9% 100.0%

TOP

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

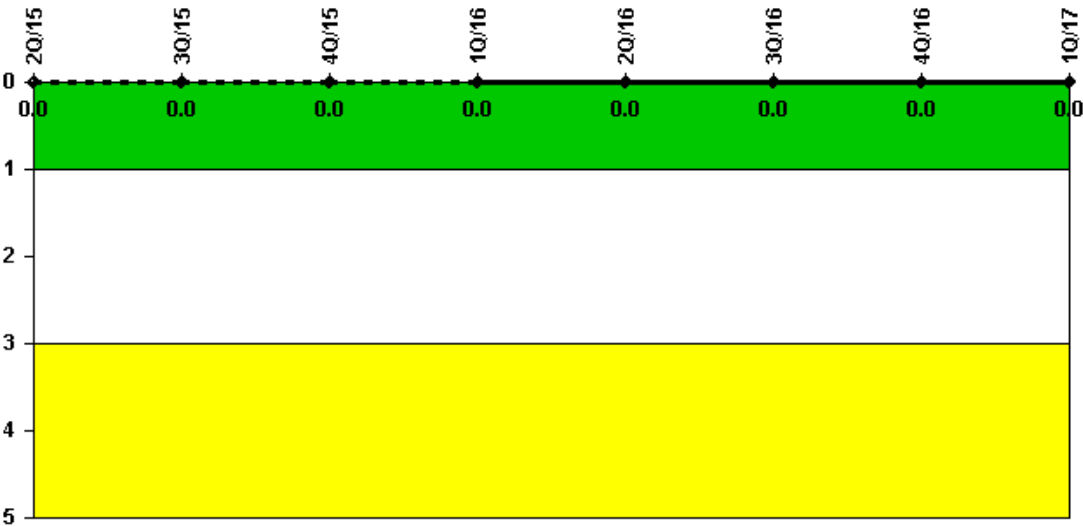
Notes

Occupational Exposure Control Effectiveness	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

TOP

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent2Q/153Q/154Q/151Q/162Q/163Q/164Q/161Q/17

RETS/ODCM occurrences000000000

Indicator value000000000

TOP

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: May 5, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017



[Home](#) > [Nuclear Reactors](#) > [Operating Reactors](#) > [Reactor Oversight Process](#) > [Plant Summaries](#) > [Palisades](#) > [Quarterly Performance Indicators](#)

Palisades – Quarterly Performance Indicators

2Q/2017 Performance Indicators

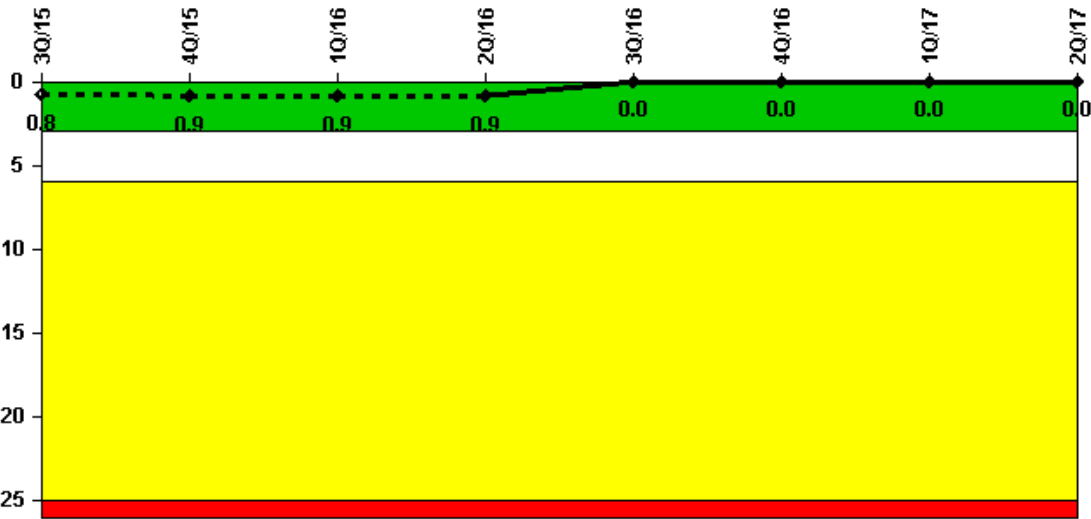
The solid trend line represents the current reporting period.

Licensee's General Comments: A Palisades PRA model revision was approved February 28, 2017. An MSPI Basis Document revision was approved on July 12, 2017 to incorporate the PRA model revision and several reliability estimate updates. The changes were entered in CDE in July 2017 and are effective for second quarter 2017.

On this page:

- [Unplanned Scrams \(IE01\)](#)
- [Unplanned Power Changes per 7000 Critical Hours \(IE03\)](#)
- [Unplanned Scrams with Complications \(IE04\)](#)
- [Safety System Functional Failures \(MS05\)](#)
- [Emergency AC Power Systems \(MS06\)](#)
- [High Pressure Injection Systems \(MS07\)](#)
- [Heat Removal Systems \(MS08\)](#)
- [Residual Heat Removal Systems \(MS09\)](#)
- [Cooling Water Systems \(MS10\)](#)
- [Reactor Coolant System Activity \(BI01\)](#)
- [Reactor Coolant System Leakage \(BI02\)](#)
- [Drill/Exercise Performance \(EP01\)](#)
- [Emergency Response Organization Drill Participation \(EP02\)](#)
- [Alert and Notification System Reliability \(EP03\)](#)
- [Occupational Exposure Control Effectiveness \(OR01\)](#)
- [RETS/OCDE Radiological Effluent Occurrence \(PR01\)](#)
- [Protected Area Equipment \(PP01\)](#)

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

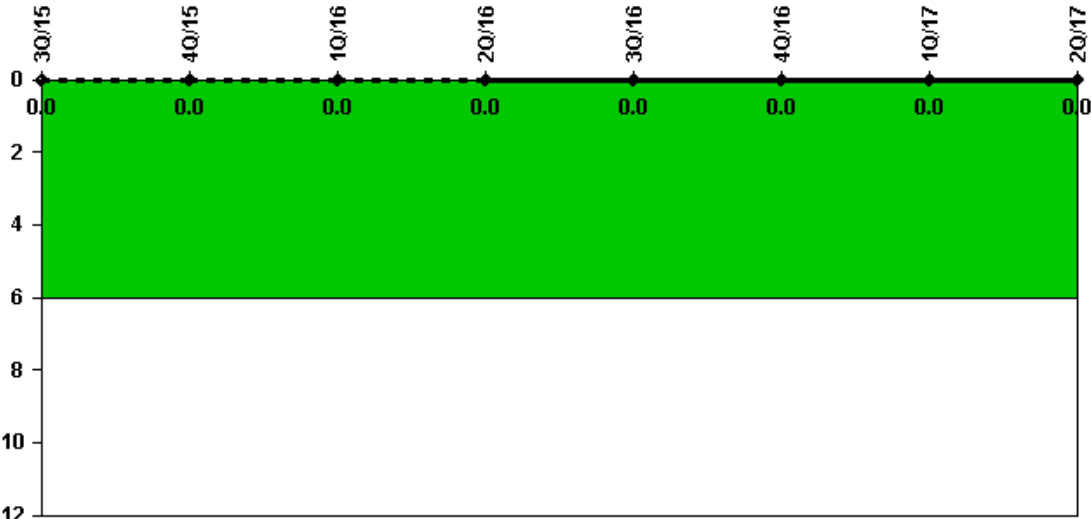
Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	1849.3	1771.8	2183.0	2184.0	2208.0	2209.0	2030.7	1553.8
Indicator value	0.8	0.9	0.9	0.9	0	0	0	0

TOP

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

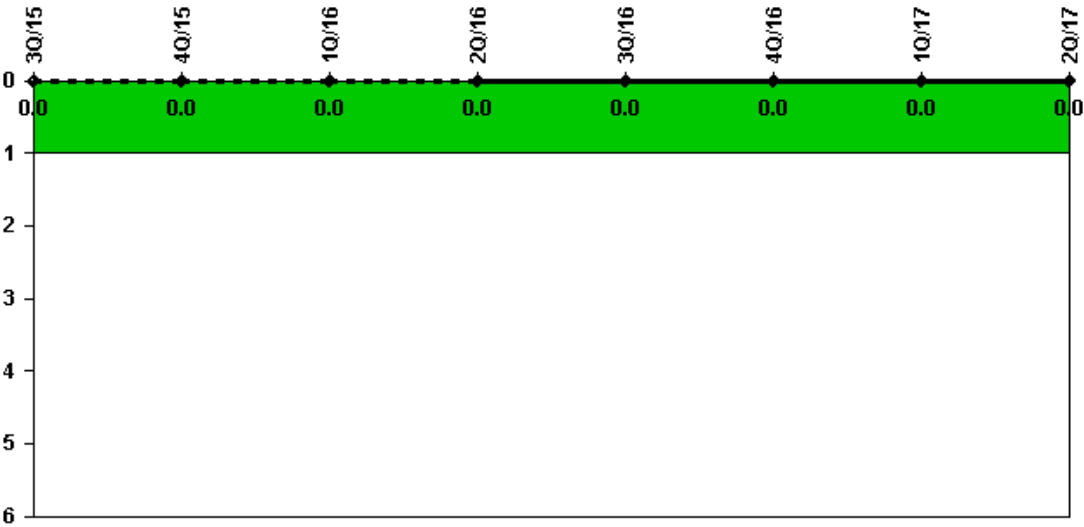
Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1849.3	1771.8	2183.0	2184.0	2208.0	2209.0	2030.7	1553.8
Indicator value	0	0	0	0	0	0	0	0

TOP

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

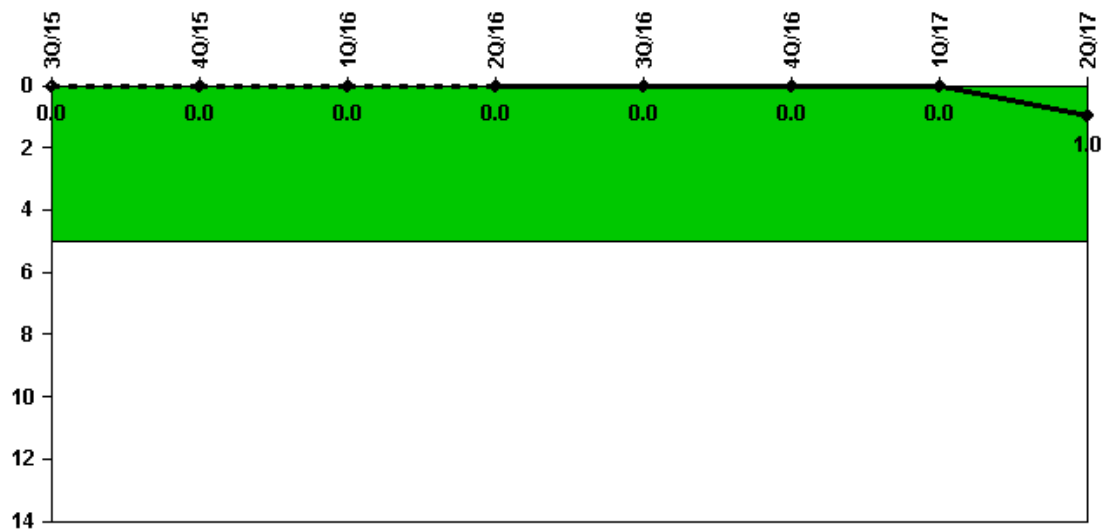
Notes

Unplanned Scrams with Complications	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOP

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

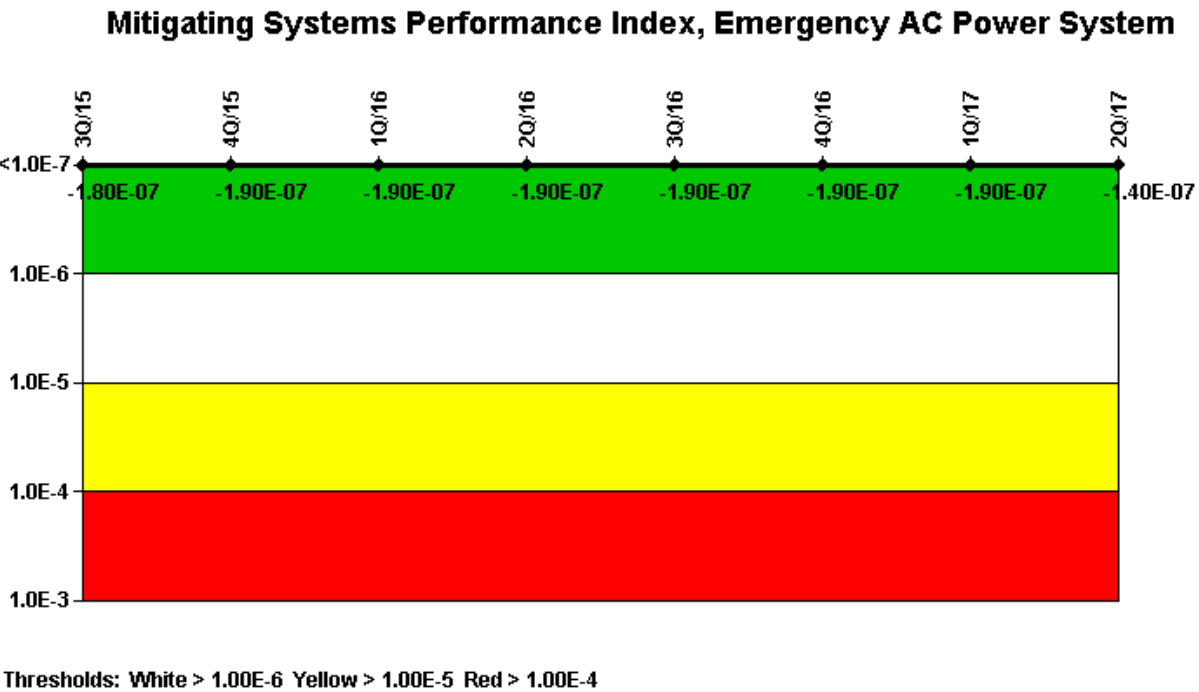
Notes

Safety System Functional Failures (PWR)3Q/154Q/151Q/162Q/163Q/164Q/161Q/172Q/17								
Safety System Functional Failures	0	0	0	0	0	0	0	1

Indicator value	0	0	0	0	0	0	0	1

TOP

Licensee Comments:
2Q/17: LER 2017-001-00 identified potential for loss of safety function in 5 systems. Counts as one loss due to a single event per NEI 99-02 rev.7.



Notes

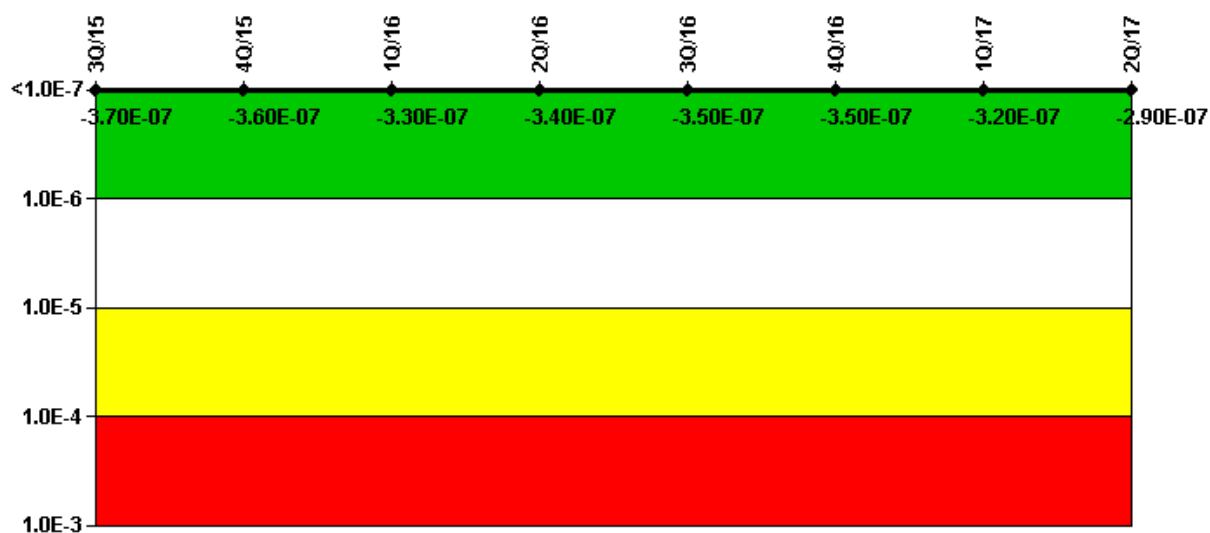
Mitigating Systems Performance Index, Emergency AC Power System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-2.11E-08	-2.73E-08	-2.73E-08	-2.73E-08	-2.73E-08	-2.73E-08	-2.62E-08	-1.35E-08
URI (ΔCDF)	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.26E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.40E-07

TOP

Licensee Comments:
2Q/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

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-1.06E-07	-9.31E-08	-6.44E-08	-7.38E-08	-8.83E-08	-8.91E-08	-5.27E-08	-6.39E-08
URI (ΔCDF)	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.29E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.70E-07	-3.60E-07	-3.30E-07	-3.40E-07	-3.50E-07	-3.50E-07	-3.20E-07	-2.90E-07

▲ TOP

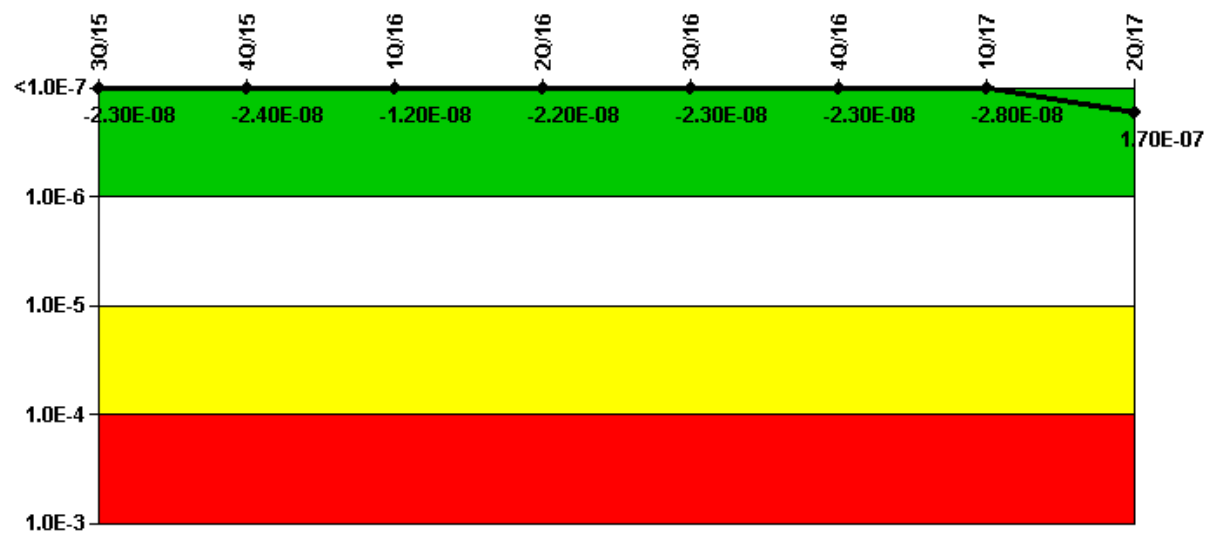
Licensee Comments:

2Q/17: Changed PRA Parameter(s).

4Q/15: Evaluation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet degradation from September 2015 concluded No MPSI Failure occurred. (Reference CR-PLP-2015-04043)

3Q/15: Evaluation is pending on degradation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet identified in September 2015. (Reference CR-PLP-2015-04043)

Mitigating Systems Performance Index, Heat Removal System



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

Notes

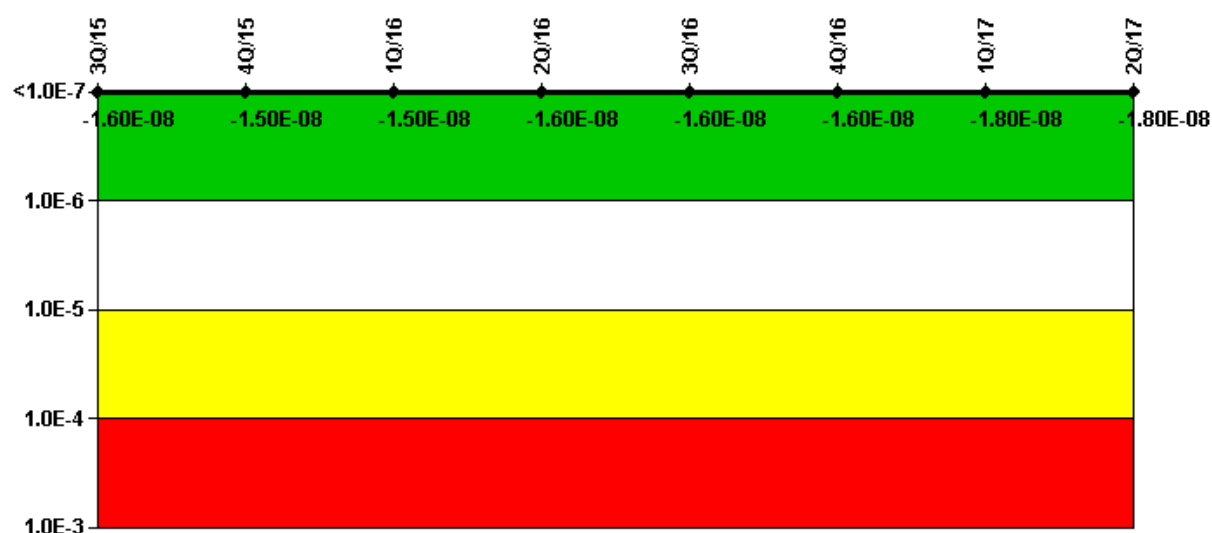
Mitigating Systems Performance Index, Heat Removal System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	1.77E-07	1.76E-07	1.89E-07	1.79E-07	1.77E-07	1.77E-07	1.73E-07	1.79E-07
URI (ΔCDF)	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-1.14E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-08	-2.40E-08	-1.20E-08	-2.20E-08	-2.30E-08	-2.30E-08	-2.80E-08	1.70E-07

TOP

Licensee Comments:
2Q/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

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	2.48E-08	2.52E-08	2.50E-08	2.39E-08	2.39E-08	2.39E-08	2.28E-08	-2.85E-10
URI (ΔCDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-1.76E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.50E-08	-1.50E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.80E-08	-1.80E-08

▲ TOP

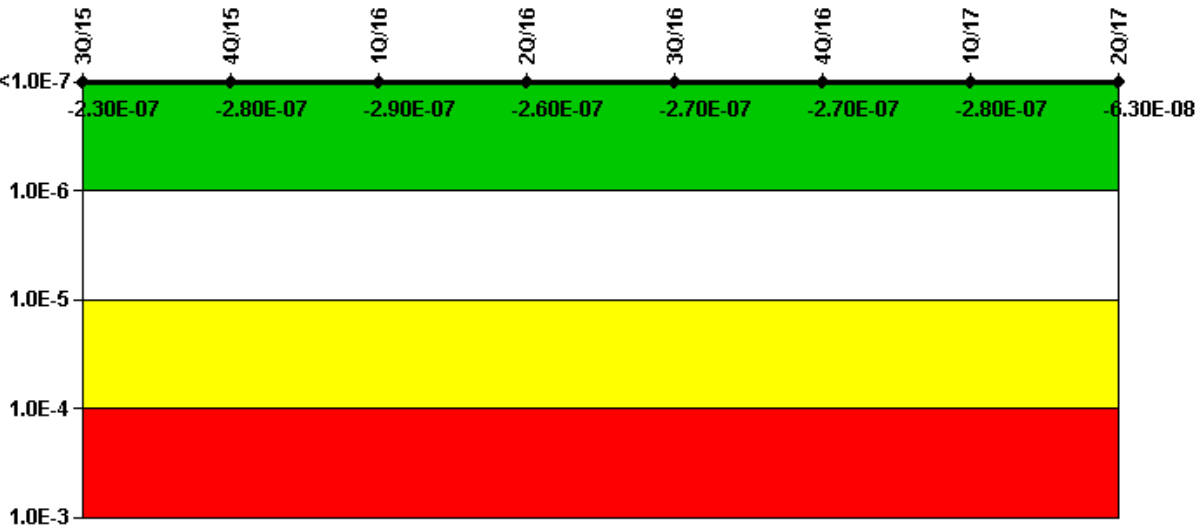
Licensee Comments:

2Q/17: Changed PRA Parameter(s).

4Q/15: Evaluation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet degradation from September 2015 concluded No MPSI Failure occurred. (Reference CR-PLP-2015-04043)

3Q/15: Evaluation is pending on degradation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet identified in September 2015. (Reference CR-PLP-2015-04043)

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

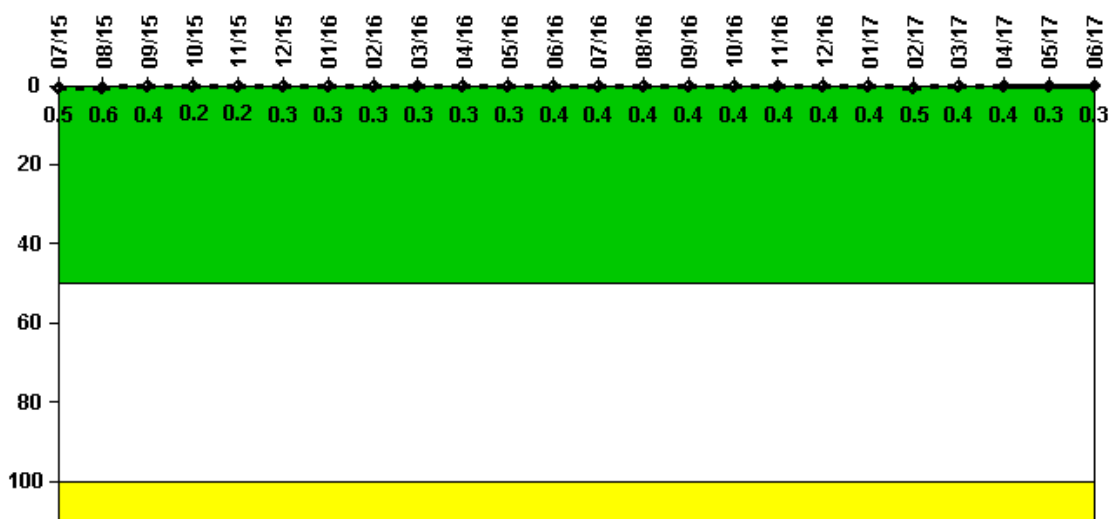
Mitigating Systems Performance Index, Cooling Water Systems

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-1.86E-09	-4.99E-08	-5.46E-08	-3.42E-08	-4.33E-08	-4.10E-08	-4.94E-08	-3.18E-08
URI (ΔCDF)	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-3.15E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-07	-2.80E-07	-2.90E-07	-2.60E-07	-2.70E-07	-2.70E-07	-2.80E-07	-6.30E-08

TOP

Licensee Comments:
2Q/17: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

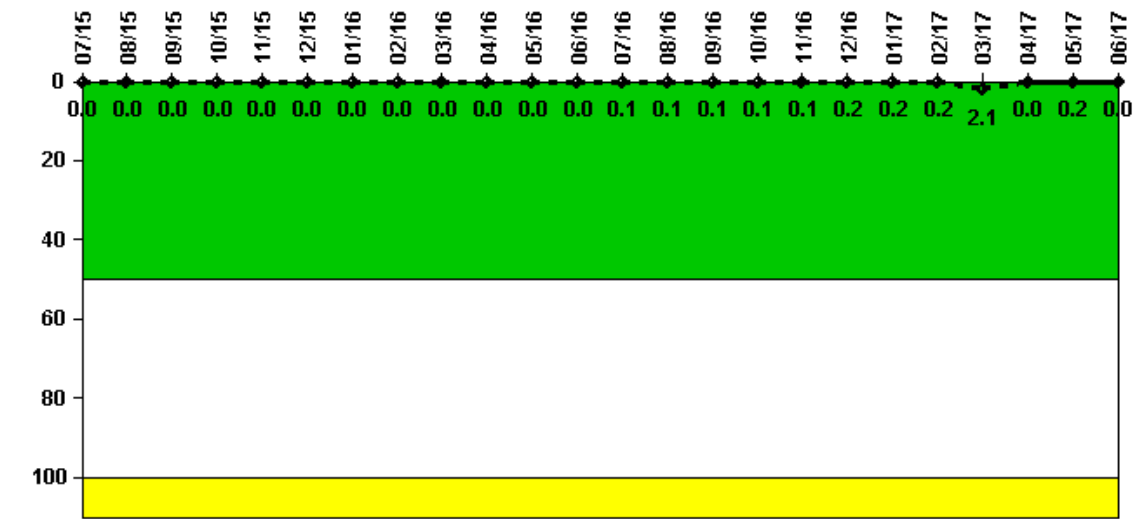
Notes

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	0.005340	0.005930	0.004120	0.001920	0.002100	0.002710	0.002940	0.003340	0.003460	0.002720	0.002760	0.003810
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.5	0.6	0.4	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4
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	0.003750	0.004070	0.004370	0.003670	0.003652	0.003840	0.003920	0.004763	0.003826	0.003650	0.002505	0.002590
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.3	0.3

▲ TOP

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum leakage	0	0	0	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

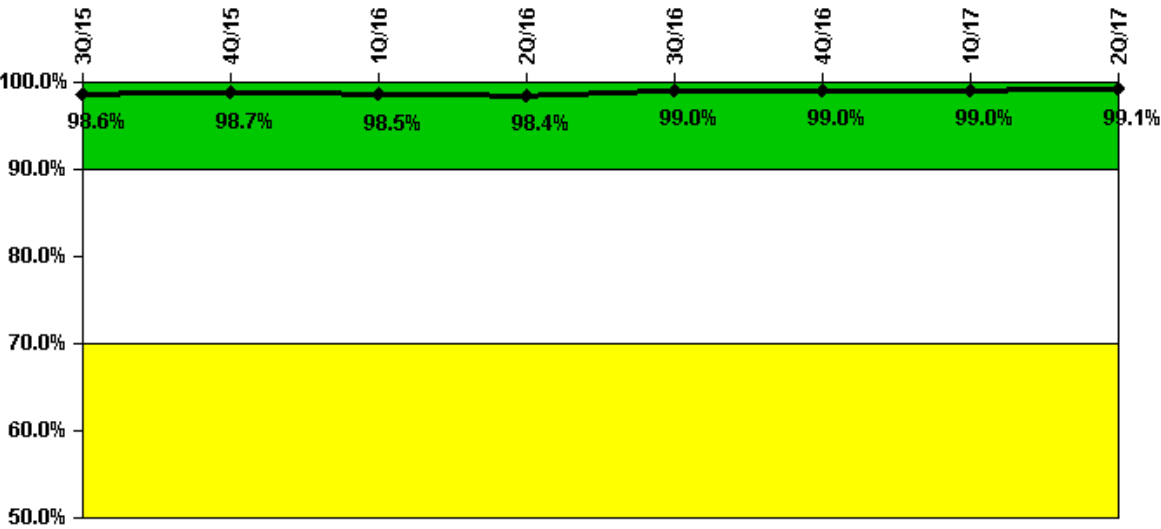
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Leakage	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17
Maximum leakage	0.009	0.012	0.012	0.012	0.011	0.015	0.016	0.016	0.211	0	0.015	0.001
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Indicator value	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	2.1	0	0.2	0

TOP

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

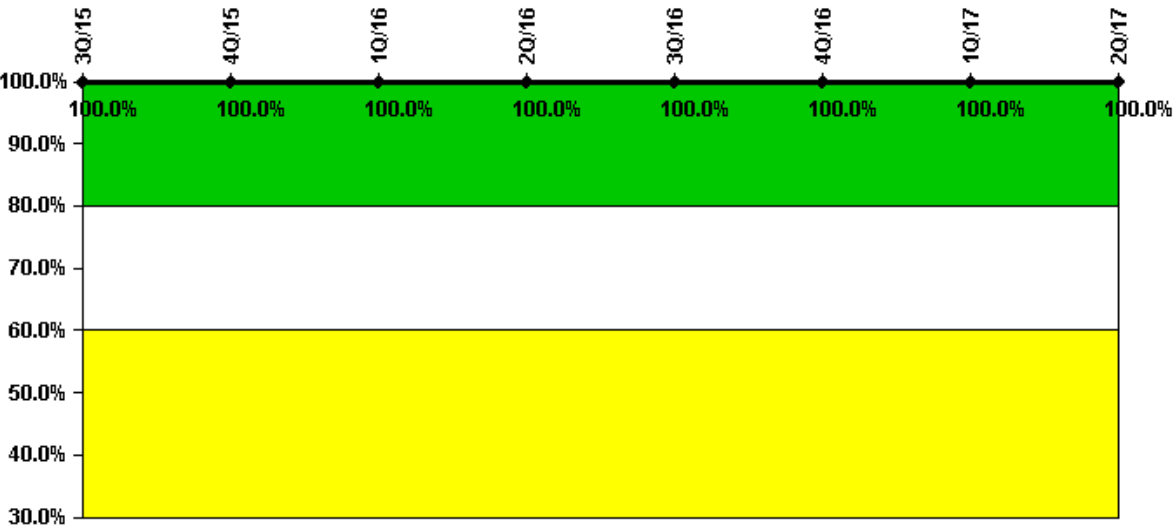
Drill/Exercise Performance	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful opportunities	98.0	66.0	115.0	34.0	16.0	17.0	69.0	8.0
Total opportunities	98.0	66.0	117.0	35.0	16.0	17.0	70.0	8.0

Indicator value 98.6% 98.7% 98.5% 98.4% 99.0% 99.0% 99.0% 99.1%

TOP

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

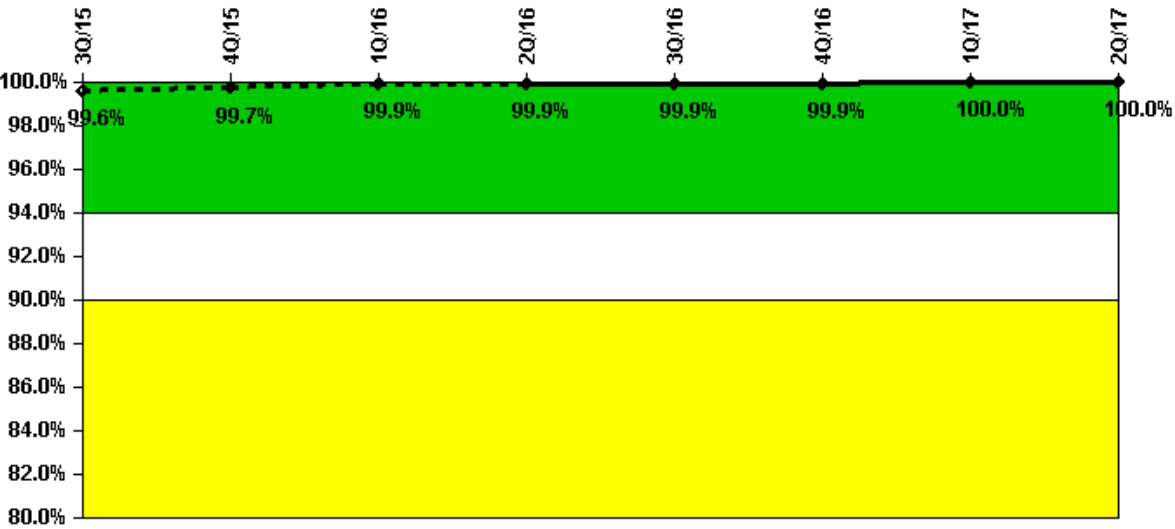
ERO Drill Participation	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Participating Key personnel	67.0	68.0	75.0	73.0	72.0	68.0	72.0	74.0
Total Key personnel	67.0	68.0	75.0	73.0	72.0	68.0	72.0	74.0

Indicator value 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%

TOP

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

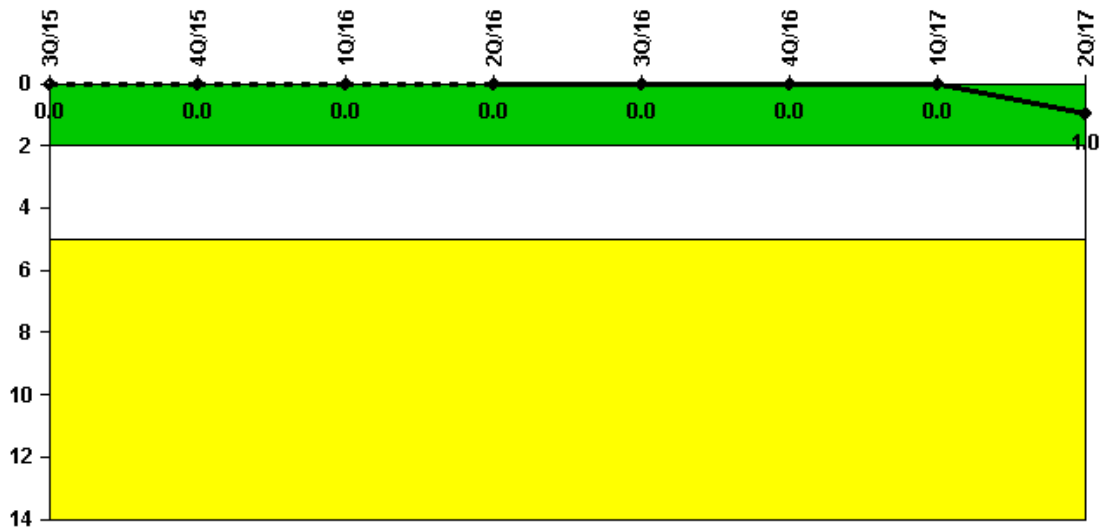
Alert & Notification System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful siren-tests	183	183	182	183	183	183	183	183
Total sirens-tests	183	183	183	183	183	183	183	183

Indicator value 99.6% 99.7% 99.9% 99.9% 99.9% 99.9% 100.0% 100.0%

TOP

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

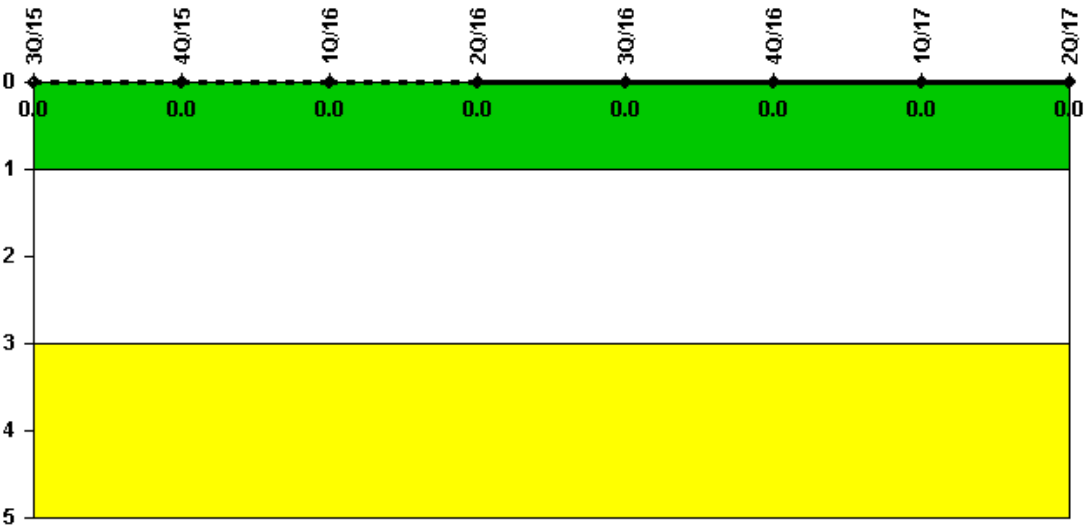
Notes

Occupational Exposure Control Effectiveness	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
High radiation area occurrences	0	0	0	0	0	0	0	1
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	1

TOP

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent3Q/154Q/151Q/162Q/163Q/164Q/161Q/172Q/17

RETS/ODCM occurrences000000000

Indicator value000000000

TOP

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: July 26, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017



[Home](#) > [Nuclear Reactors](#) > [Operating Reactors](#) > [Reactor Oversight Process](#) > [Plant Summaries](#)> [Palisades](#) > [Quarterly Performance Indicators](#)

Palisades – Quarterly Performance Indicators

3Q/2017 Performance Indicators

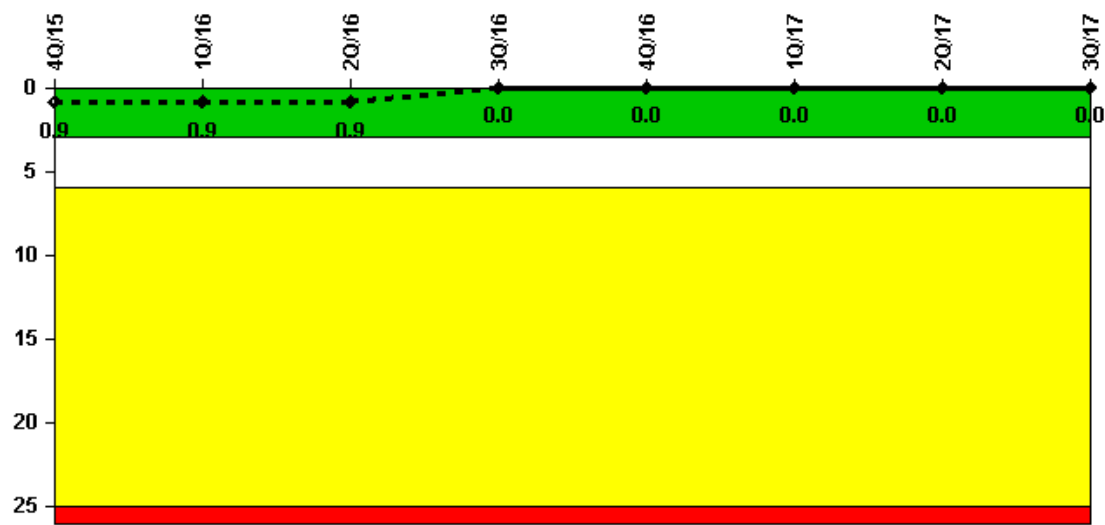
The solid trend line represents the current reporting period.

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

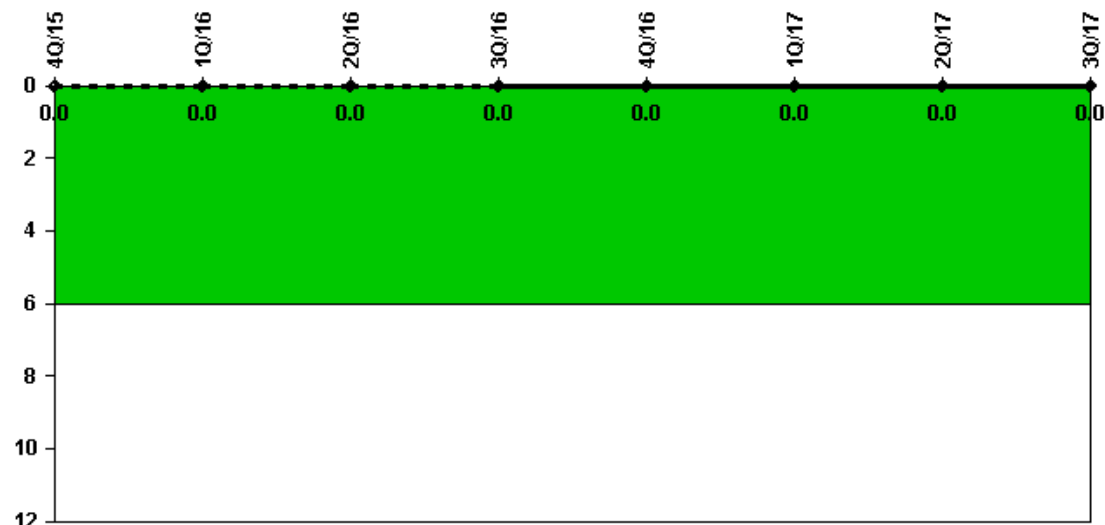
Notes

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	0	0	0	0
Critical hours	1771.8	2183.0	2184.0	2208.0	2209.0	2030.7	1553.8	2208.0
Indicator value	0.9	0.9	0.9	0	0	0	0	0

TOP

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

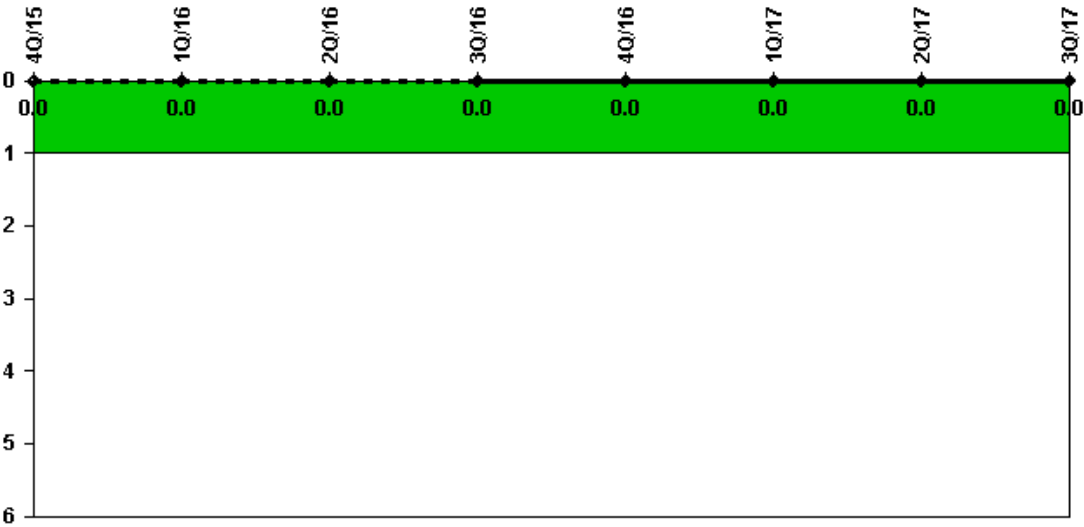
Notes

Unplanned Power Changes per 7000 Critical Hrs	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	1771.8	2183.0	2184.0	2208.0	2209.0	2030.7	1553.8	2208.0
Indicator value	0	0	0	0	0	0	0	0

TOP

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

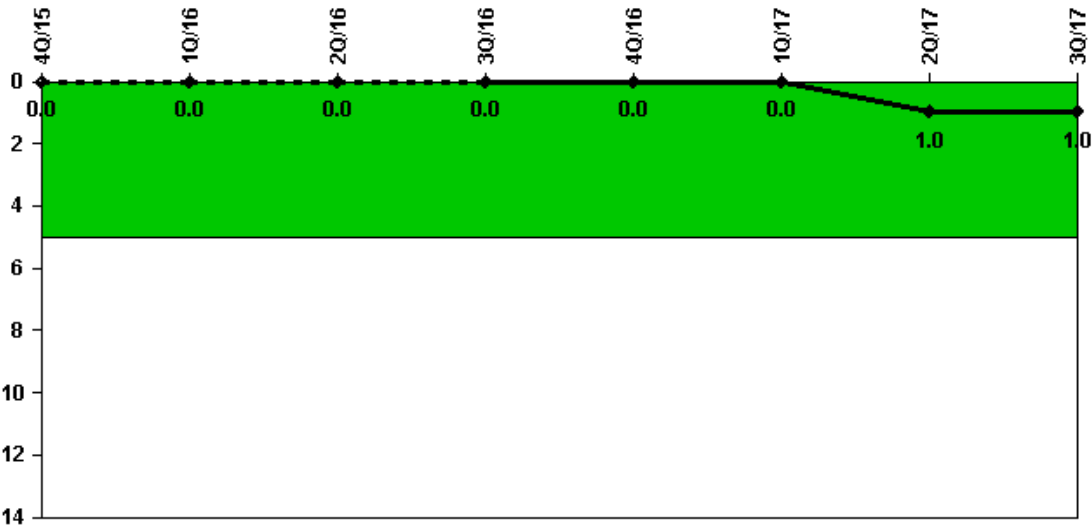
Notes

Unplanned Scrams with Complications	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

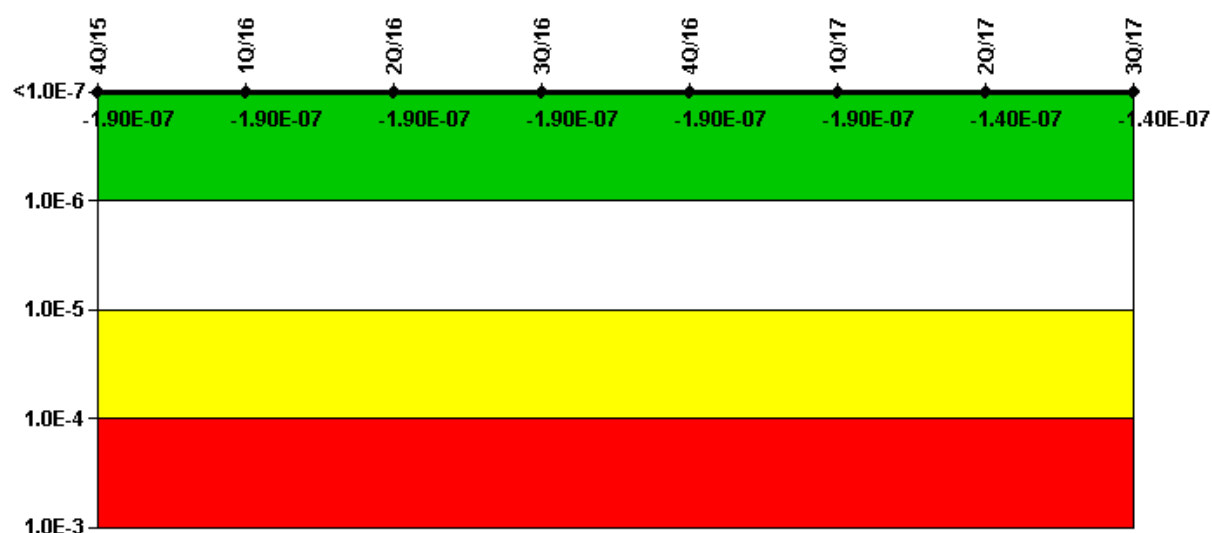
Safety System Functional Failures (PWR)	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Safety System Functional Failures	0	0	0	0	0	0	1	0

Indicator value	0	0	0	0	0	0	1	1

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Licensee Comments:
2Q/17: LER 2017-001-00 identified potential for loss of safety function in 5 systems. Counts as one loss due to a single event per NEI 99-02 rev.7.

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)	-2.73E-08	-2.73E-08	-2.73E-08	-2.73E-08	-2.73E-08	-2.62E-08	-1.35E-08	-1.35E-08
URI (ΔCDF)	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.26E-07	-1.25E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.40E-07	-1.40E-07

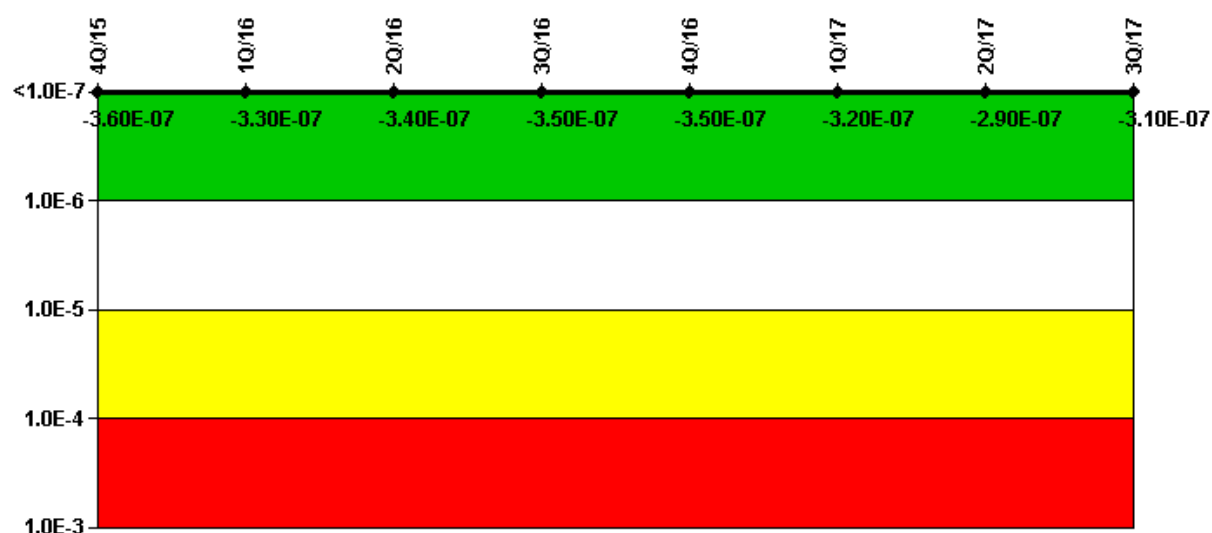
▲ TOP

Licensee Comments:

3Q/17: Changed PRA Parameter(s). An MSPI Basis Document revision was approved on July 12, 2017 to incorporate the February 2017 PRA model revision and several reliability estimate updates. The changes were entered in CDE in July 2017 and were effective for second quarter 2017. The third quarter 2017 System-Generated PI Comment - Changed PRA Parameter(s) applies to the second quarter parameters updated in July 2017.

2Q/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)	-9.31E-08	-6.44E-08	-7.38E-08	-8.83E-08	-8.91E-08	-5.27E-08	-6.39E-08	-8.01E-08
URI (ΔCDF)	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.29E-07	-2.29E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.60E-07	-3.30E-07	-3.40E-07	-3.50E-07	-3.50E-07	-3.20E-07	-2.90E-07	-3.10E-07

▲ TOP

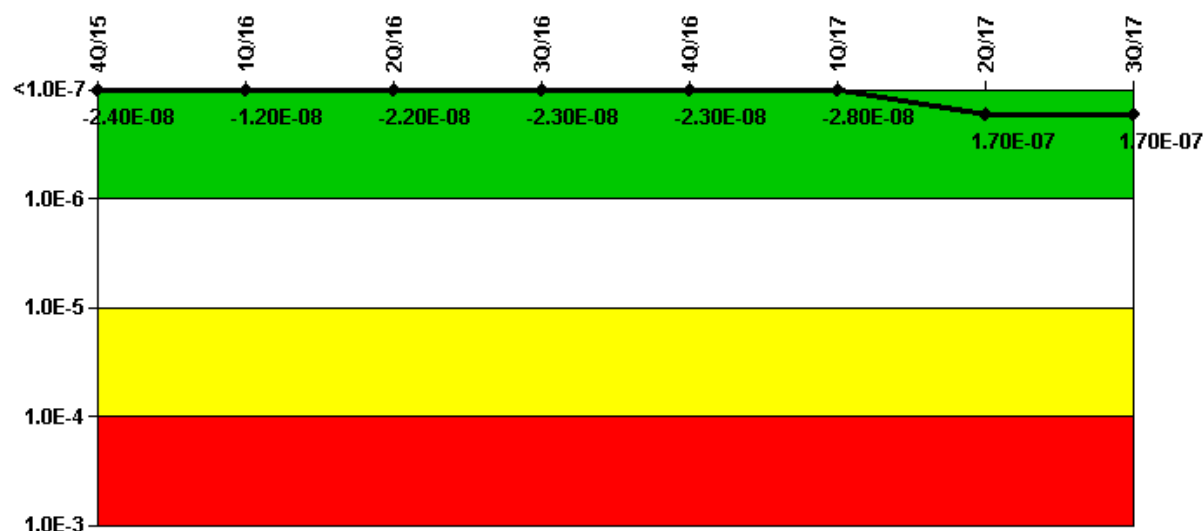
Licensee Comments:

3Q/17: Changed PRA Parameter(s). An MSPI Basis Document revision was approved on July 12, 2017 to incorporate the February 2017 PRA model revision and several reliability estimate updates. The changes were entered in CDE in July 2017 and were effective for second quarter 2017. The third quarter 2017 System-Generated PI Comment - Changed PRA Parameter(s) applies to the second quarter parameters updated in July 2017.

2Q/17: Changed PRA Parameter(s).

4Q/15: Evaluation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet degradation from September 2015 concluded No MPSI Failure occurred. (Reference CR-PLP-2015-04043)

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)	1.76E-07	1.89E-07	1.79E-07	1.77E-07	1.77E-07	1.73E-07	1.79E-07	1.80E-07
URI (ΔCDF)	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-1.14E-08	-1.18E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-08	-1.20E-08	-2.20E-08	-2.30E-08	-2.30E-08	-2.80E-08	1.70E-07	1.70E-07

TOP

Licensee Comments:

3Q/17: Changed PRA Parameter(s). An MSPI Basis Document revision was approved on July 12, 2017 to incorporate the February 2017 PRA model revision and several reliability estimate updates. The changes were entered in CDE in July 2017 and were effective for second quarter 2017. The third quarter 2017 System-Generated PI Comment - Changed PRA Parameter(s) applies to the second quarter parameters updated in July 2017.

2Q/17: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	2.52E-08	2.50E-08	2.39E-08	2.39E-08	2.39E-08	2.28E-08	-2.85E-10	-2.87E-10
URI (ΔCDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-1.76E-08	-1.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.50E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.80E-08	-1.80E-08	-1.80E-08

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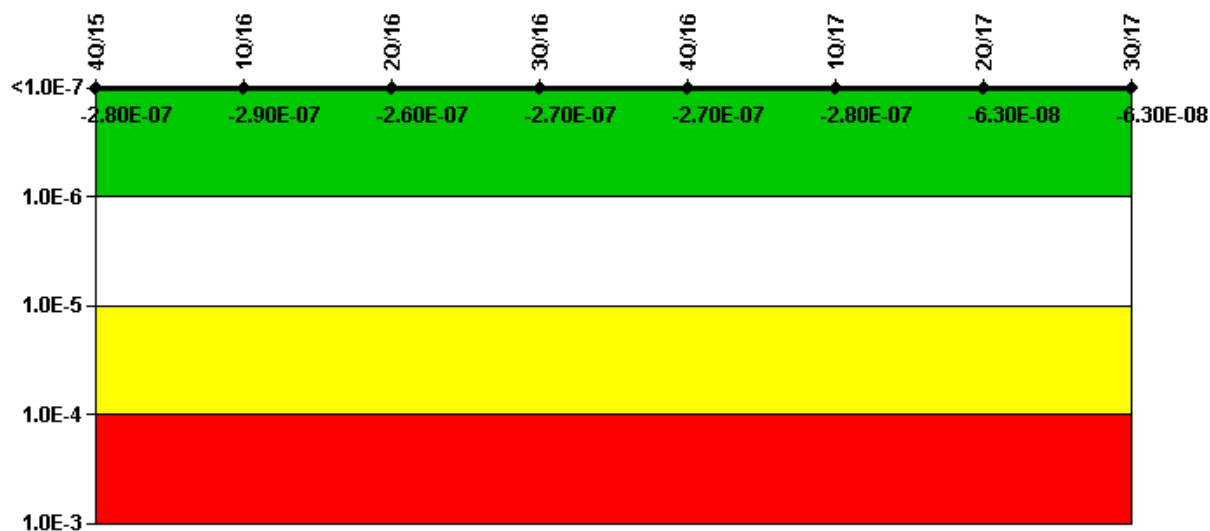
Licensee Comments:

3Q/17: Changed PRA Parameter(s). An MSPI Basis Document revision was approved on July 12, 2017 to incorporate the February 2017 PRA model revision and several reliability estimate updates. The changes were entered in CDE in July 2017 and were effective for second quarter 2017. The third quarter 2017 System-Generated PI Comment - Changed PRA Parameter(s) applies to the second quarter parameters updated in July 2017.

2Q/17: Changed PRA Parameter(s).

4Q/15: Evaluation of Control Valve CV-3057 SIRW (Safety Injection Refueling Water) Storage Tank Outlet degradation from September 2015 concluded No MPSI Failure occurred. (Reference CR-PLP-2015-04043)

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

Mitigating Systems Performance Index, Cooling Water Systems

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-4.99E-08	-5.46E-08	-3.42E-08	-4.33E-08	-4.10E-08	-4.94E-08	-3.18E-08	-3.22E-08
URI (ΔCDF)	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-3.15E-08	-3.07E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.80E-07	-2.90E-07	-2.60E-07	-2.70E-07	-2.70E-07	-2.80E-07	-6.30E-08	-6.30E-08

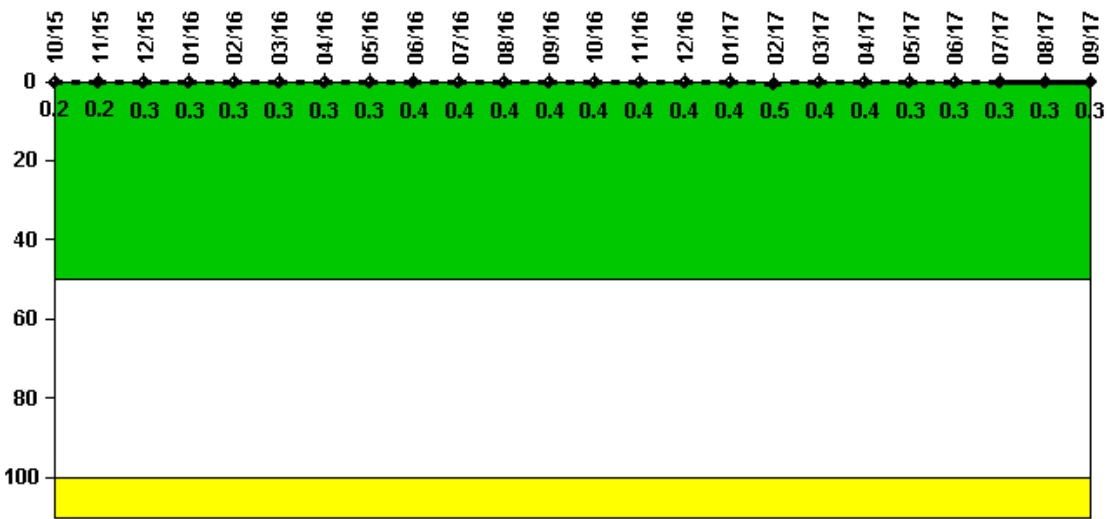
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Licensee Comments:

3Q/17: Changed PRA Parameter(s). An MSPI Basis Document revision was approved on July 12, 2017 to incorporate the February 2017 PRA model revision and several reliability estimate updates. The changes were entered in CDE in July 2017 and were effective for second quarter 2017. The third quarter 2017 System-Generated PI Comment - Changed PRA Parameter(s) applies to the second quarter parameters updated in July 2017.

2Q/17: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

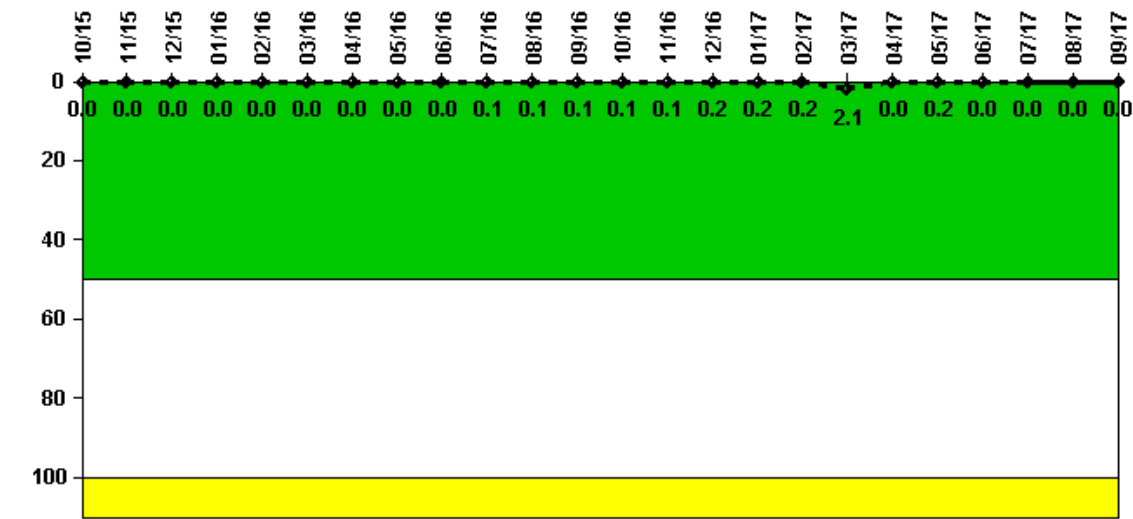
Reactor Coolant System Activity	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum activity	0.001920	0.002100	0.002710	0.002940	0.003340	0.003460	0.002720	0.002760	0.003810	0.003750	0.004070	0.004370
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4

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	0.003670	0.003652	0.003840	0.003920	0.004763	0.003826	0.003650	0.002505	0.002590	0.002763	0.002790	0.002640
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3

TOP

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

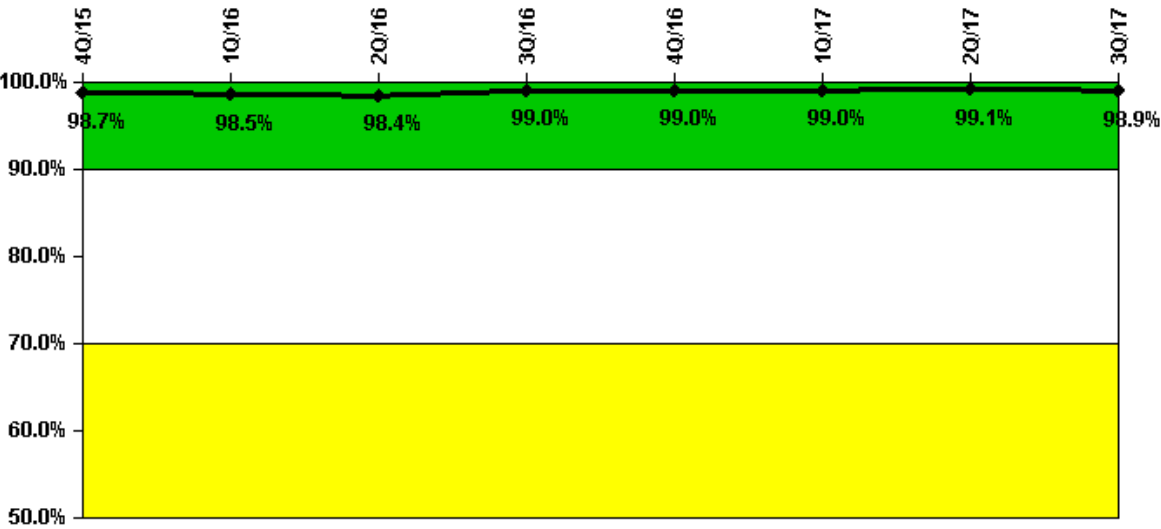
Reactor Coolant System Leakage	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum leakage	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.009	0.012	0.012
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1

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	0.012	0.011	0.015	0.016	0.016	0.211	0	0.015	0.001	0.001	0.003	0.003
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	0.1	0.2	0.2	0.2	2.1	0	0.2	0	0	0	0

TOP

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

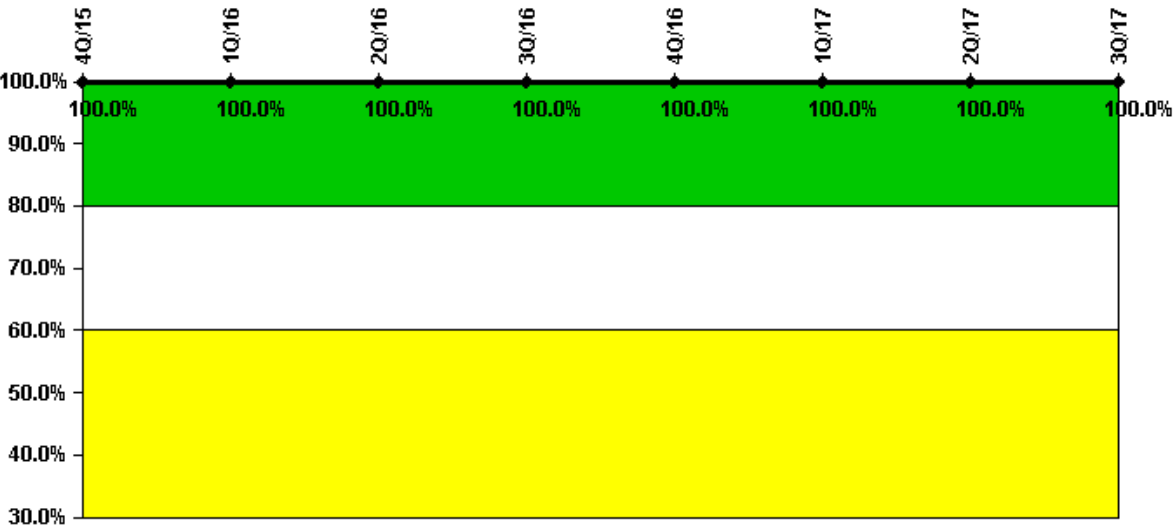
Drill/Exercise Performance	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful opportunities	66.0	115.0	34.0	16.0	17.0	69.0	8.0	36.0
Total opportunities	66.0	117.0	35.0	16.0	17.0	70.0	8.0	36.0

Indicator value 98.7% 98.5% 98.4% 99.0% 99.0% 99.0% 99.1% 98.9%

TOP

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

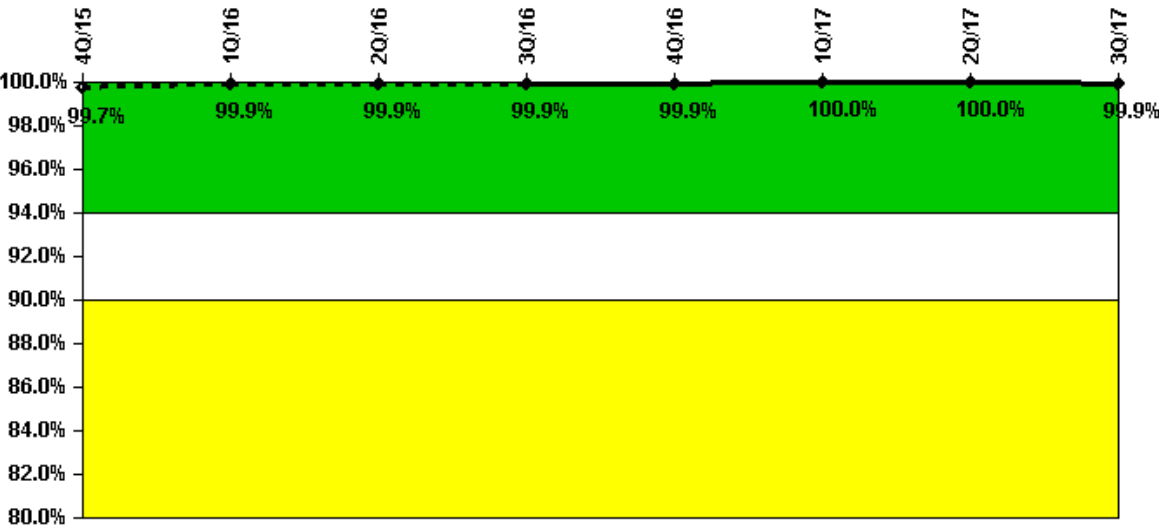
ERO Drill Participation	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Participating Key personnel	68.0	75.0	73.0	72.0	68.0	72.0	74.0	74.0
Total Key personnel	68.0	75.0	73.0	72.0	68.0	72.0	74.0	74.0

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

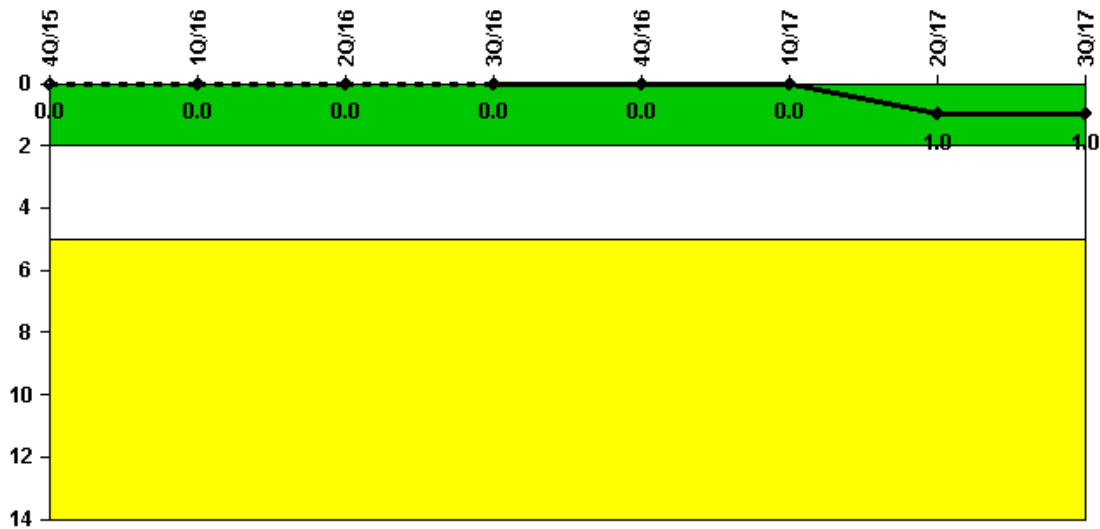
Alert & Notification System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful siren-tests	183	182	183	183	183	183	183	182
Total sirens-tests	183	183	183	183	183	183	183	183

Indicator value 99.7% 99.9% 99.9% 99.9% 99.9% 100.0% 100.0% 99.9%

TOP

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

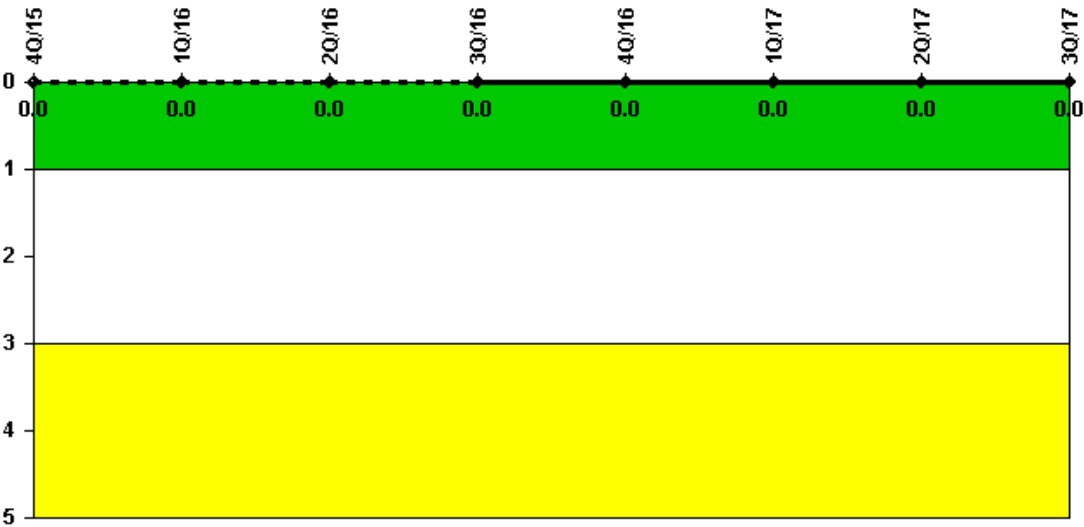
Notes

Occupational Exposure Control Effectiveness	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	1	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	1	1

TOP

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent4Q/151Q/162Q/163Q/164Q/161Q/172Q/173Q/17

RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

TOP

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: October 31, 2017

Page Last Reviewed/Updated Monday, November 06, 2017



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries> Palisades > Quarterly Performance Indicators

Palisades – Quarterly Performance Indicators

4Q/2017 Performance Indicators

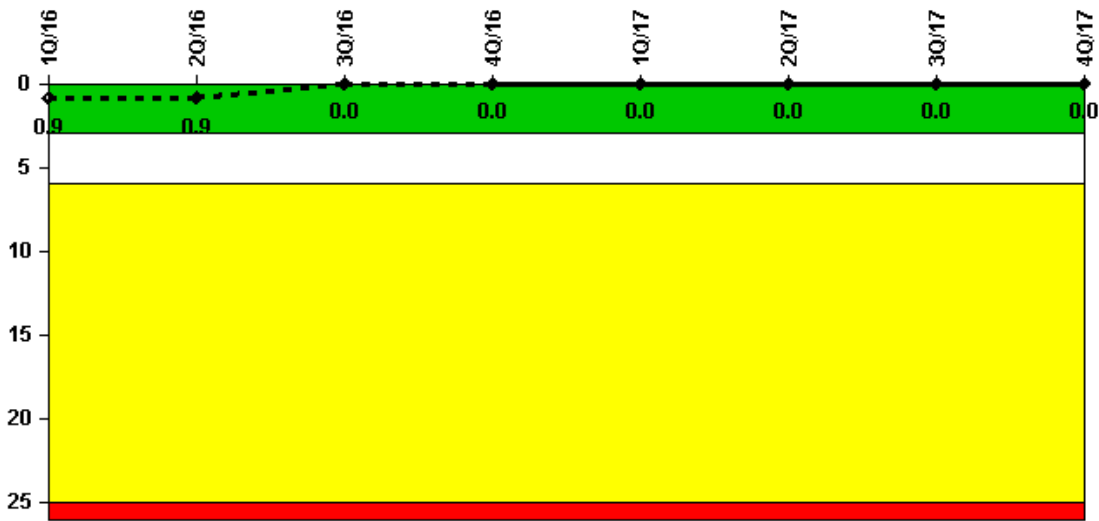
The solid trend line represents the current reporting period.

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/OCDE Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

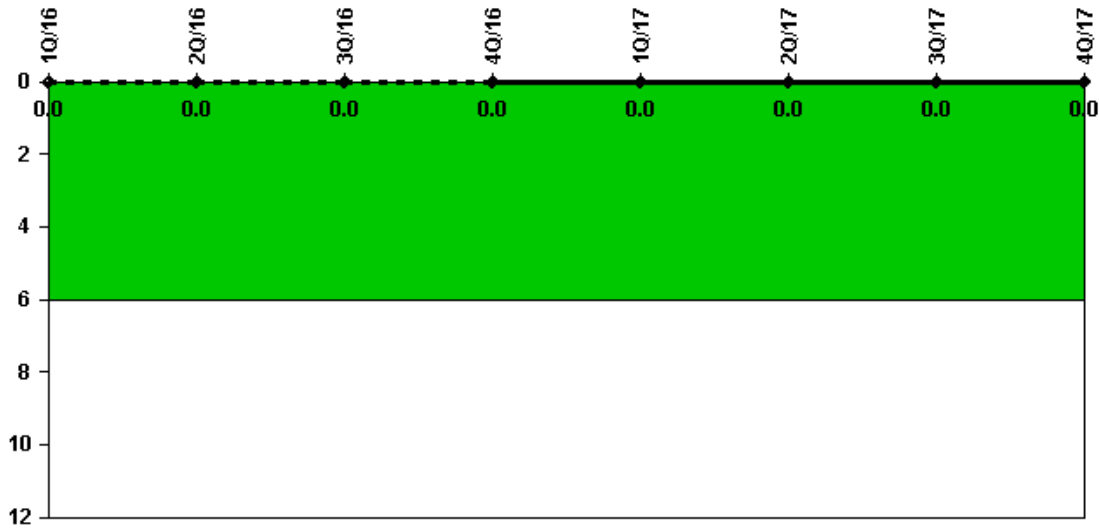
Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2209.0	2030.7	1553.8	2208.0	2209.0
Indicator value	0.9	0.9	0	0	0	0	0	0

TOP

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

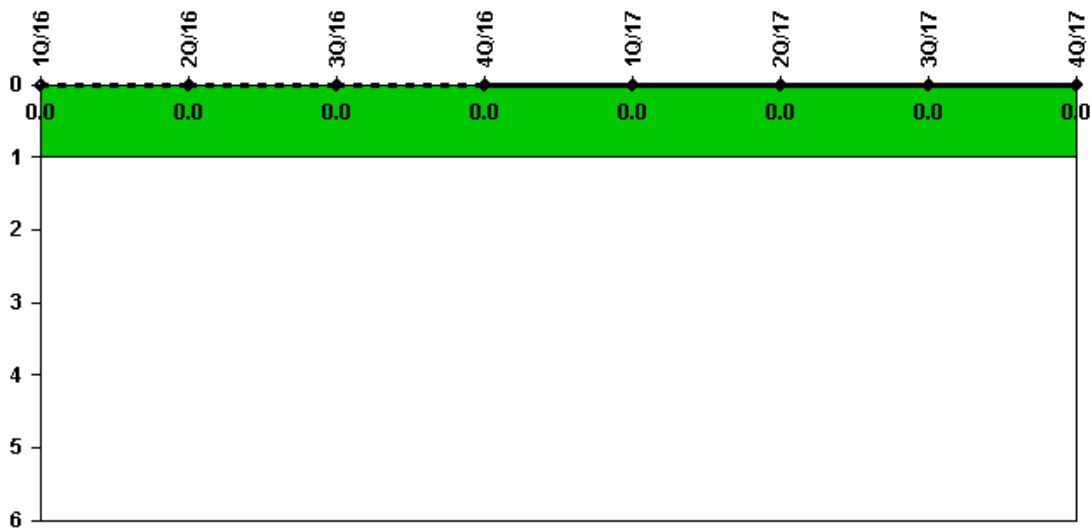
Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2209.0	2030.7	1553.8	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

TOP

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

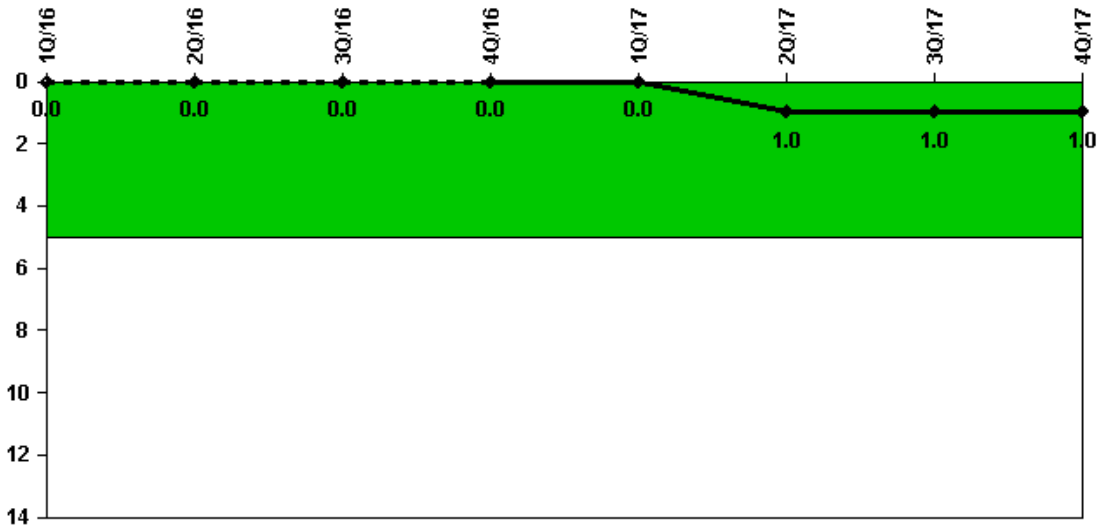
Notes

Unplanned Scrams with Complications	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TOP

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR) 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17 4Q/17

Safety System Functional Failures 0 0 0 0 0 1 0 0

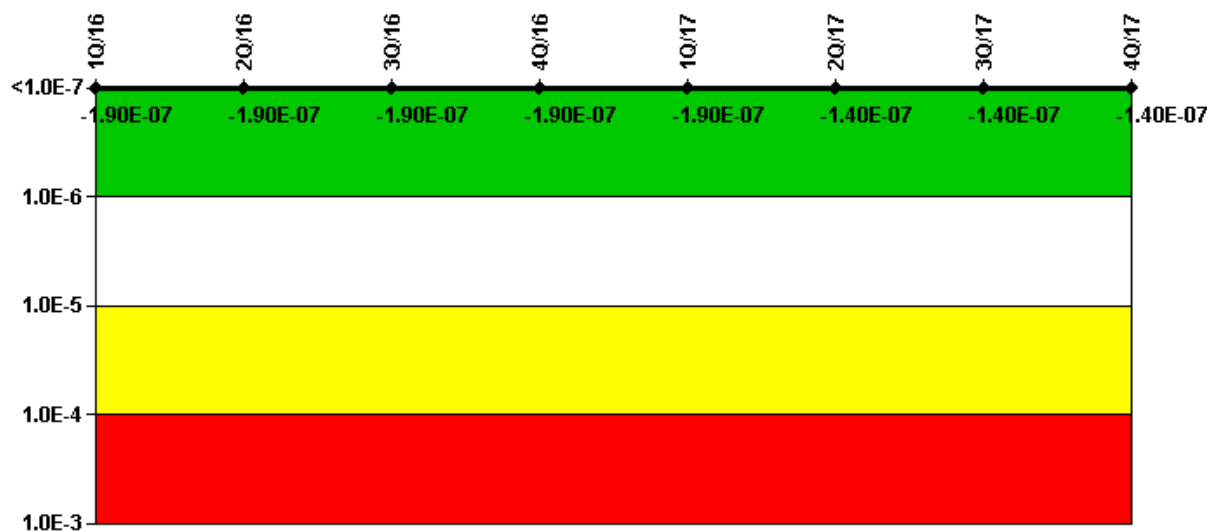
Indicator value 0 0 0 0 0 1 1 1

TOP

Licensee Comments:

2Q/17: LER 2017-001-00 identified potential for loss of safety function in 5 systems. Counts as one loss due to a single event per NEI 99-02 rev.7.

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-2.73E-08	-2.73E-08	-2.73E-08	-2.73E-08	-2.62E-08	-1.35E-08	-1.35E-08	-1.35E-08
URI (ΔCDF)	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.59E-07	-1.26E-07	-1.25E-07	-1.24E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.90E-07	-1.40E-07	-1.40E-07	-1.40E-07

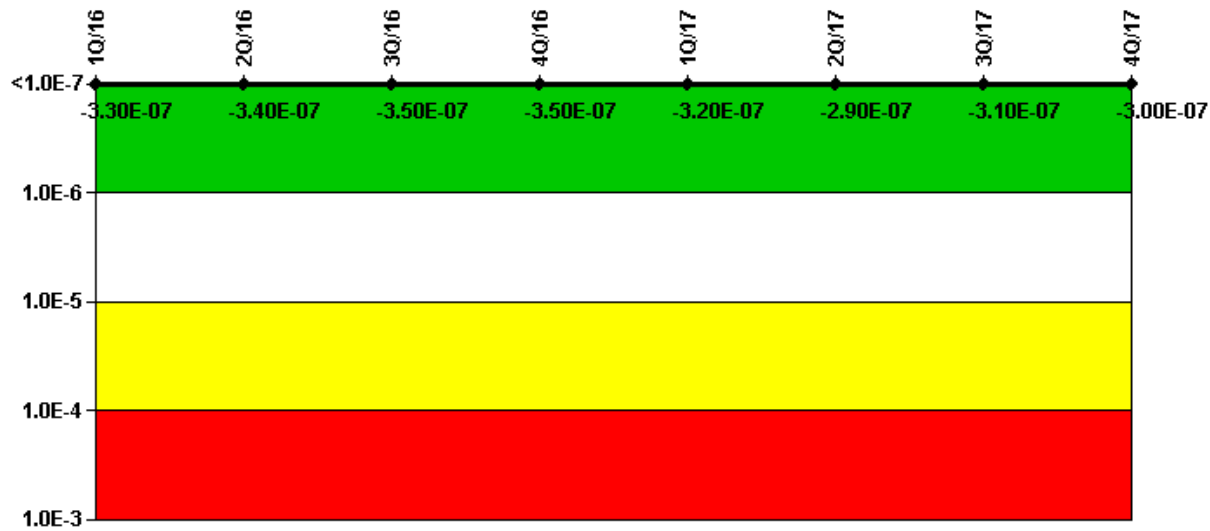
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Licensee Comments:

3Q/17: Changed PRA Parameter(s). An MSPI Basis Document revision was approved on July 12, 2017 to incorporate the February 2017 PRA model revision and several reliability estimate updates. The changes were entered in CDE in July 2017 and were effective for second quarter 2017. The third quarter 2017 System-Generated PI Comment - Changed PRA Parameter(s) applies to the second quarter parameters updated in July 2017.

2Q/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)	-6.44E-08	-7.38E-08	-8.83E-08	-8.91E-08	-5.27E-08	-6.39E-08	-8.01E-08	-7.17E-08
URI (ΔCDF)	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.65E-07	-2.29E-07	-2.29E-07	-2.29E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.30E-07	-3.40E-07	-3.50E-07	-3.50E-07	-3.20E-07	-2.90E-07	-3.10E-07	-3.00E-07

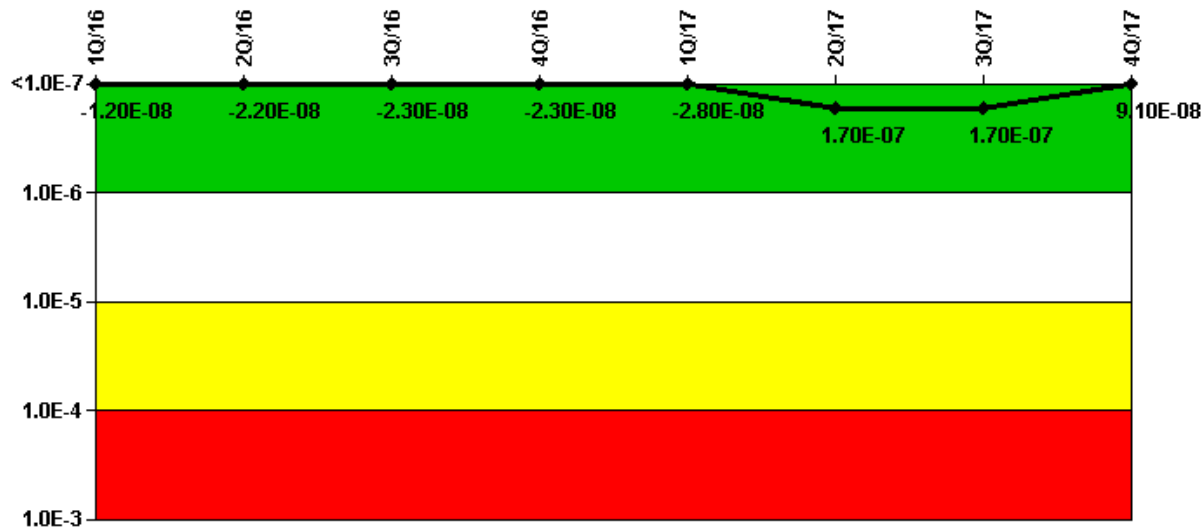
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Licensee Comments:

3Q/17: Changed PRA Parameter(s). An MSPI Basis Document revision was approved on July 12, 2017 to incorporate the February 2017 PRA model revision and several reliability estimate updates. The changes were entered in CDE in July 2017 and were effective for second quarter 2017. The third quarter 2017 System-Generated PI Comment - Changed PRA Parameter(s) applies to the second quarter parameters updated in July 2017.

2Q/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)	1.89E-07	1.79E-07	1.77E-07	1.77E-07	1.73E-07	1.79E-07	1.80E-07	1.73E-07
URI (ΔCDF)	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-1.14E-08	-1.18E-08	-8.19E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-08	-2.20E-08	-2.30E-08	-2.30E-08	-2.80E-08	1.70E-07	1.70E-07	9.10E-08

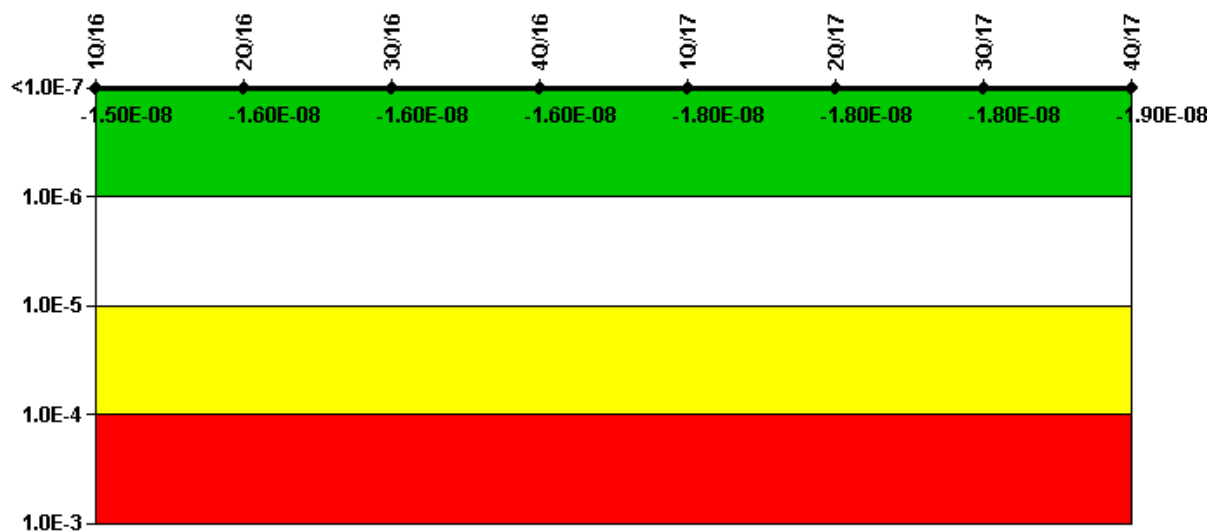
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Licensee Comments:

3Q/17: Changed PRA Parameter(s). An MSPI Basis Document revision was approved on July 12, 2017 to incorporate the February 2017 PRA model revision and several reliability estimate updates. The changes were entered in CDE in July 2017 and were effective for second quarter 2017. The third quarter 2017 System-Generated PI Comment - Changed PRA Parameter(s) applies to the second quarter parameters updated in July 2017.

2Q/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 (ΔCDF)	2.50E-08	2.39E-08	2.39E-08	2.39E-08	2.28E-08	-2.85E-10	-2.87E-10	-2.87E-10
URI (ΔCDF)	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-4.04E-08	-1.76E-08	-1.81E-08	-1.87E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.90E-08

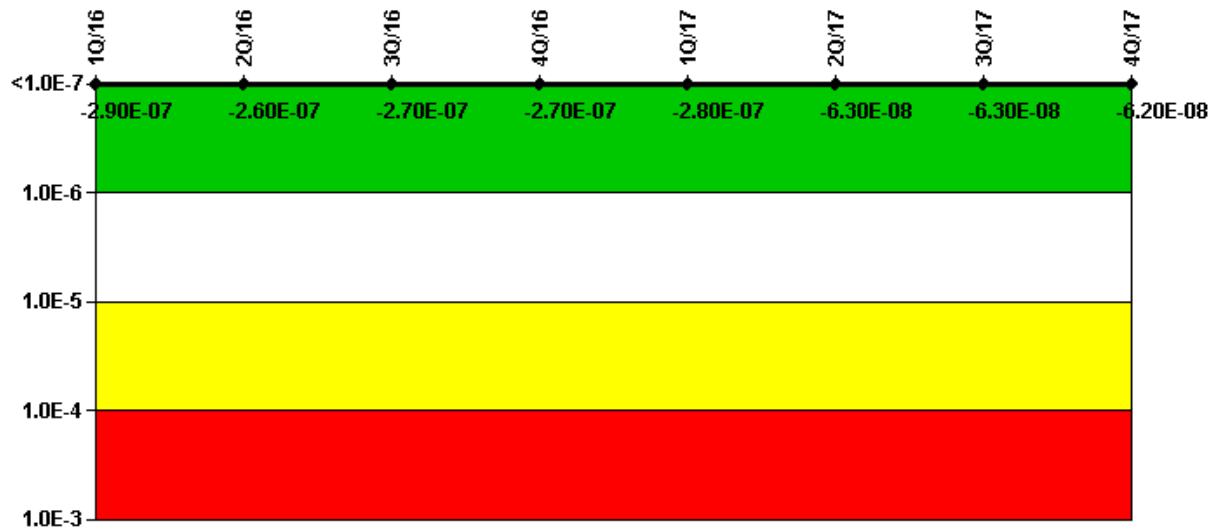
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Licensee Comments:

3Q/17: Changed PRA Parameter(s). An MSPI Basis Document revision was approved on July 12, 2017 to incorporate the February 2017 PRA model revision and several reliability estimate updates. The changes were entered in CDE in July 2017 and were effective for second quarter 2017. The third quarter 2017 System-Generated PI Comment - Changed PRA Parameter(s) applies to the second quarter parameters updated in July 2017.

2Q/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)	-5.46E-08	-3.42E-08	-4.33E-08	-4.10E-08	-4.94E-08	-3.18E-08	-3.22E-08	-3.22E-08
URI (ΔCDF)	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-2.31E-07	-3.15E-08	-3.07E-08	-2.98E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-07	-2.60E-07	-2.70E-07	-2.70E-07	-2.80E-07	-6.30E-08	-6.30E-08	-6.20E-08

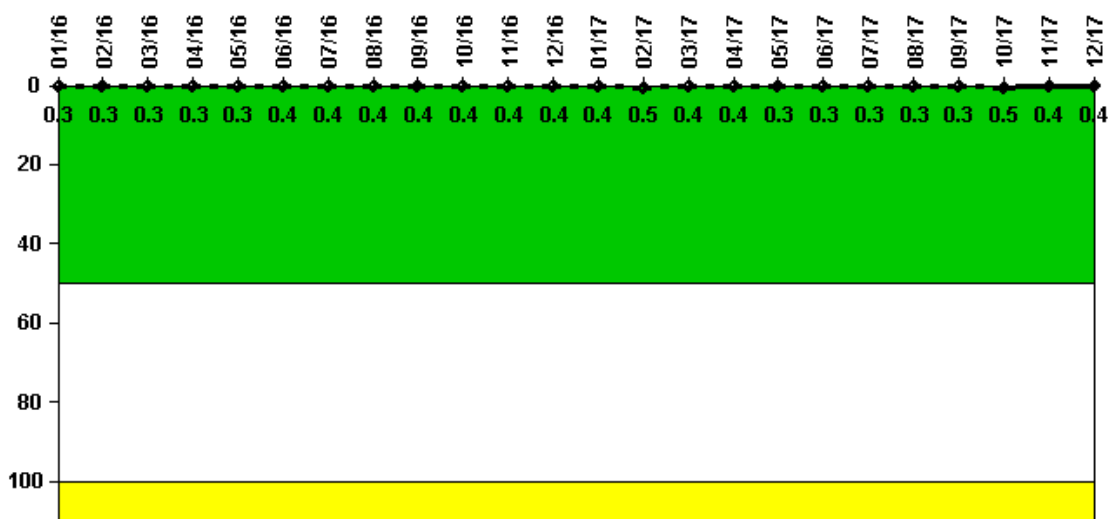
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Licensee Comments:

3Q/17: Changed PRA Parameter(s). An MSPI Basis Document revision was approved on July 12, 2017 to incorporate the February 2017 PRA model revision and several reliability estimate updates. The changes were entered in CDE in July 2017 and were effective for second quarter 2017. The third quarter 2017 System-Generated PI Comment - Changed PRA Parameter(s) applies to the second quarter parameters updated in July 2017.

2Q/17: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

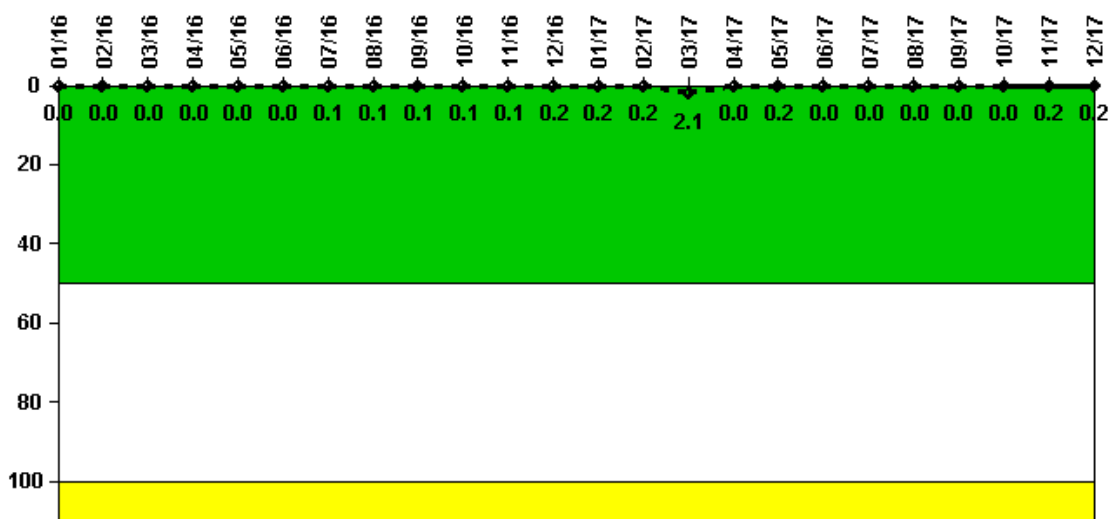
Notes

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	0.002940	0.003340	0.003460	0.002720	0.002760	0.003810	0.003750	0.004070	0.004370	0.003670	0.003652	0.003840
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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	0.003920	0.004763	0.003826	0.003650	0.002505	0.002590	0.002763	0.002790	0.002640	0.005390	0.004120	0.003990
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.5	0.4	0.4

▲ TOP

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum leakage	0.001	0.001	0.001	0.001	0.001	0.001	0.009	0.012	0.012	0.012	0.011	0.015
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

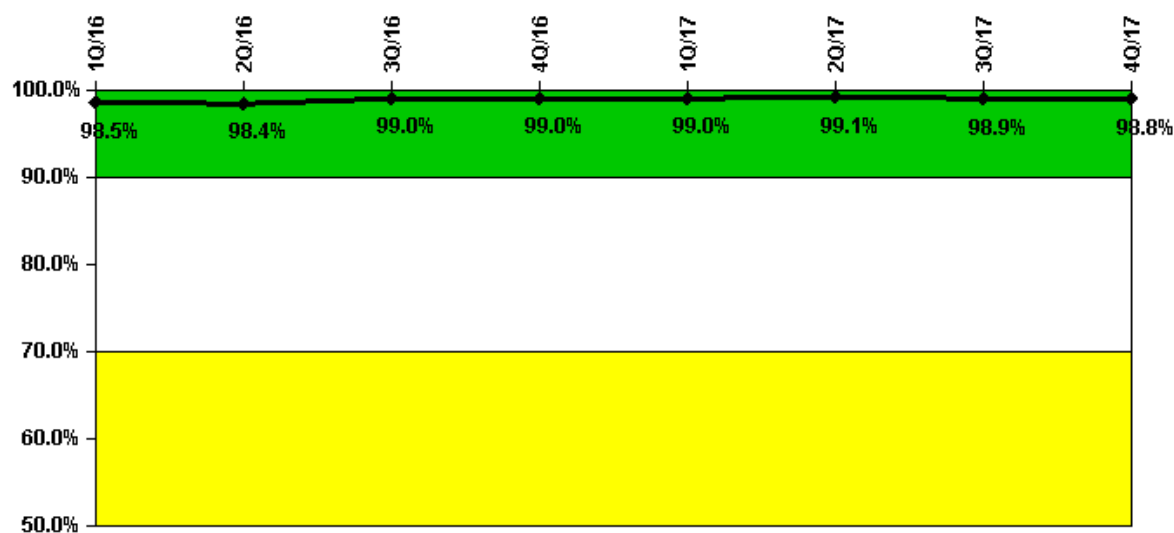
Indicator value	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.2
Reactor Coolant System Leakage	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17	10/17	11/17	12/17
Maximum leakage	0.016	0.016	0.211	0	0.015	0.001	0.001	0.003	0.003	0.001	0.018	0.015
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Indicator value	0.2	0.2	2.1	0	0.2	0	0	0	0	0	0.2	0.2

TOP

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

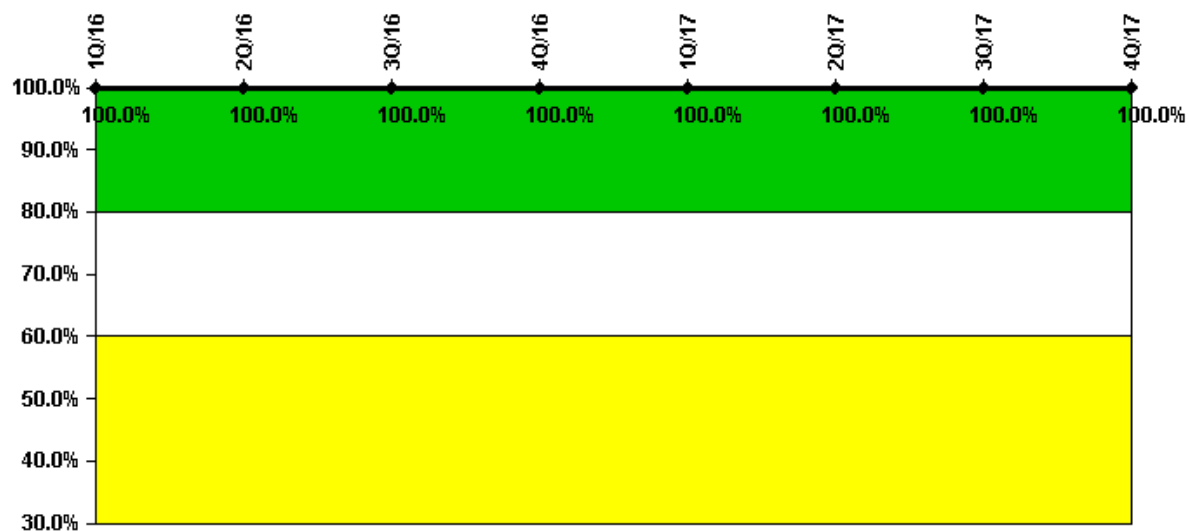
Drill/Exercise Performance	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful opportunities	115.0	34.0	16.0	17.0	69.0	8.0	36.0	101.0
Total opportunities	117.0	35.0	16.0	17.0	70.0	8.0	36.0	102.0

Indicator value 98.5% 98.4% 99.0% 99.0% 99.0% 99.1% 98.9% 98.8%

▲ TOP

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

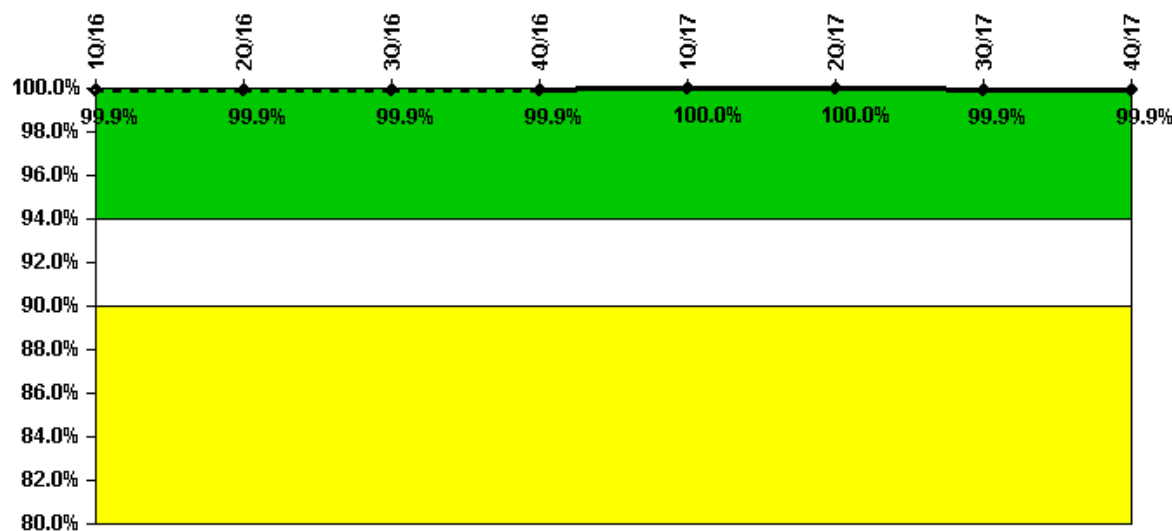
ERO Drill Participation	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Participating Key personnel	75.0	73.0	72.0	68.0	72.0	74.0	74.0	78.0
Total Key personnel	75.0	73.0	72.0	68.0	72.0	74.0	74.0	78.0

Indicator value 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%

TOP

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

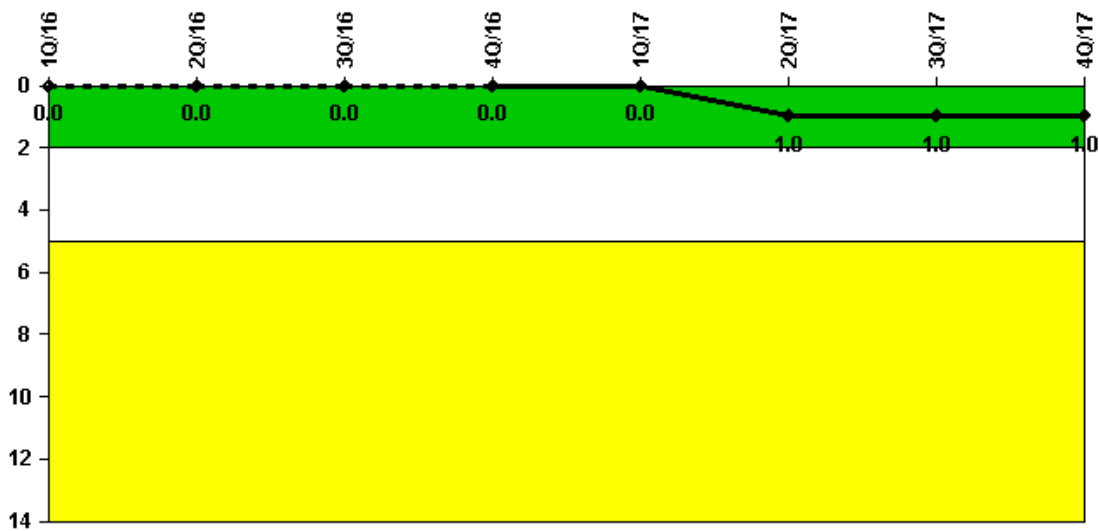
Alert & Notification System	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful siren-tests	182	183	183	183	183	183	182	183
Total sirens-tests	183	183	183	183	183	183	183	183

Indicator value 99.9% 99.9% 99.9% 99.9% 100.0% 100.0% 99.9% 99.9%

▲ TOP

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

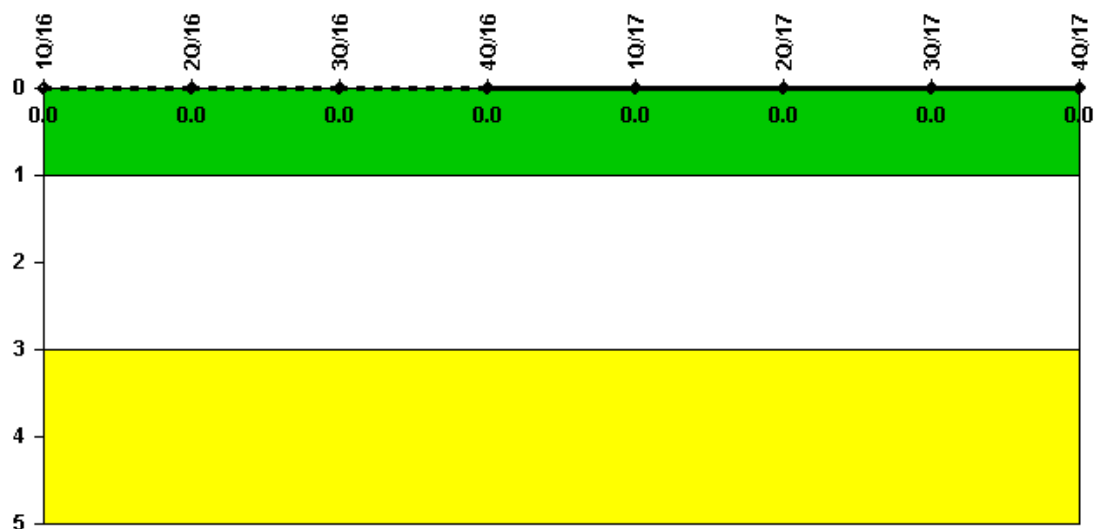
Occupational Exposure Control Effectiveness1Q/162Q/163Q/164Q/161Q/172Q/173Q/174Q/17

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

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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