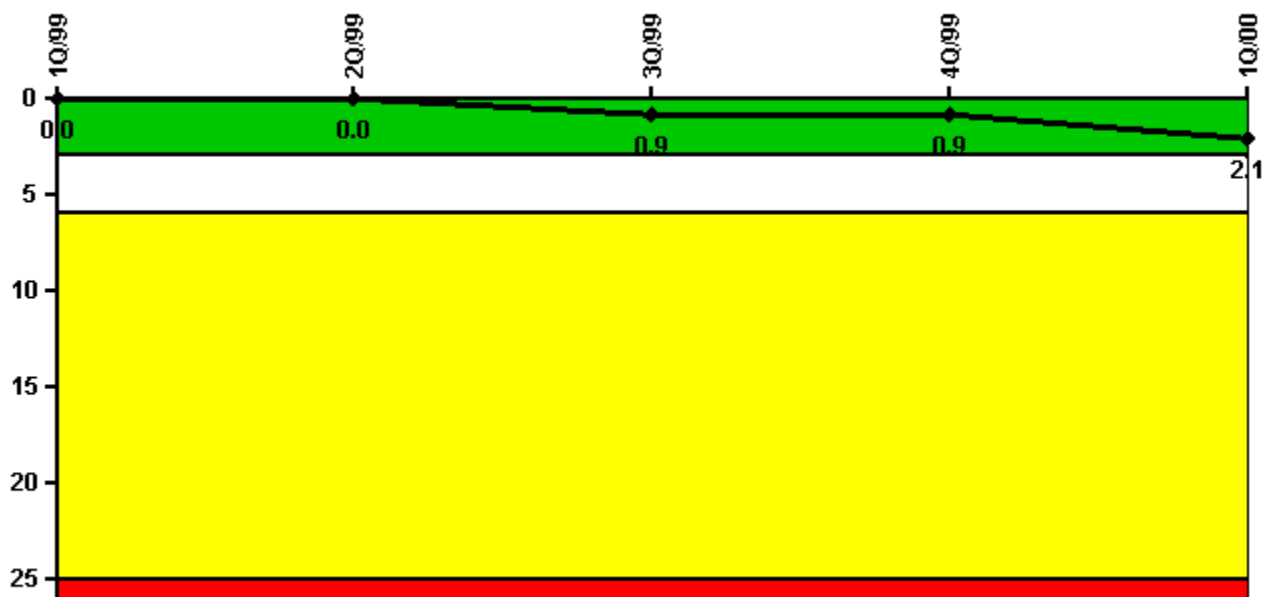


Indian Point 2

1Q/2000 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

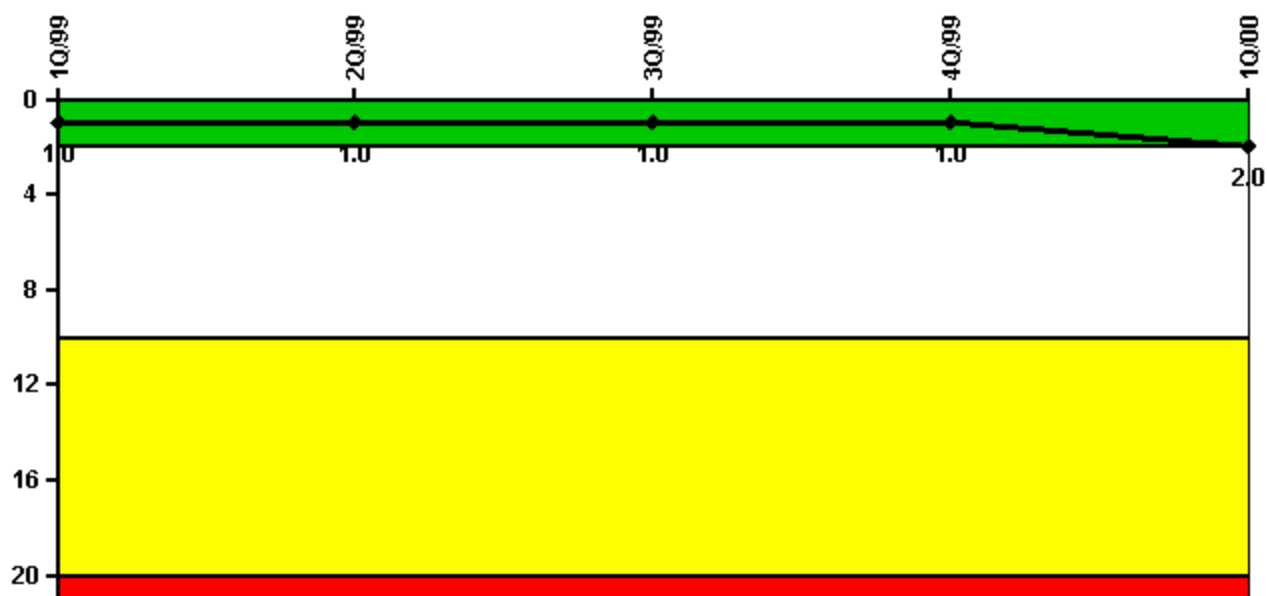
Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned scrams	0	0	1.0	0	1.0
Critical hours	2160.0	2183.0	1478.5	1902.0	1099.5
Indicator value	0	0	0.9	0.9	2.1

Licensee Comments:

1Q/00: Plant shut down due to SGTR in 24 steam generator.

Scrams with Loss of Normal Heat Removal



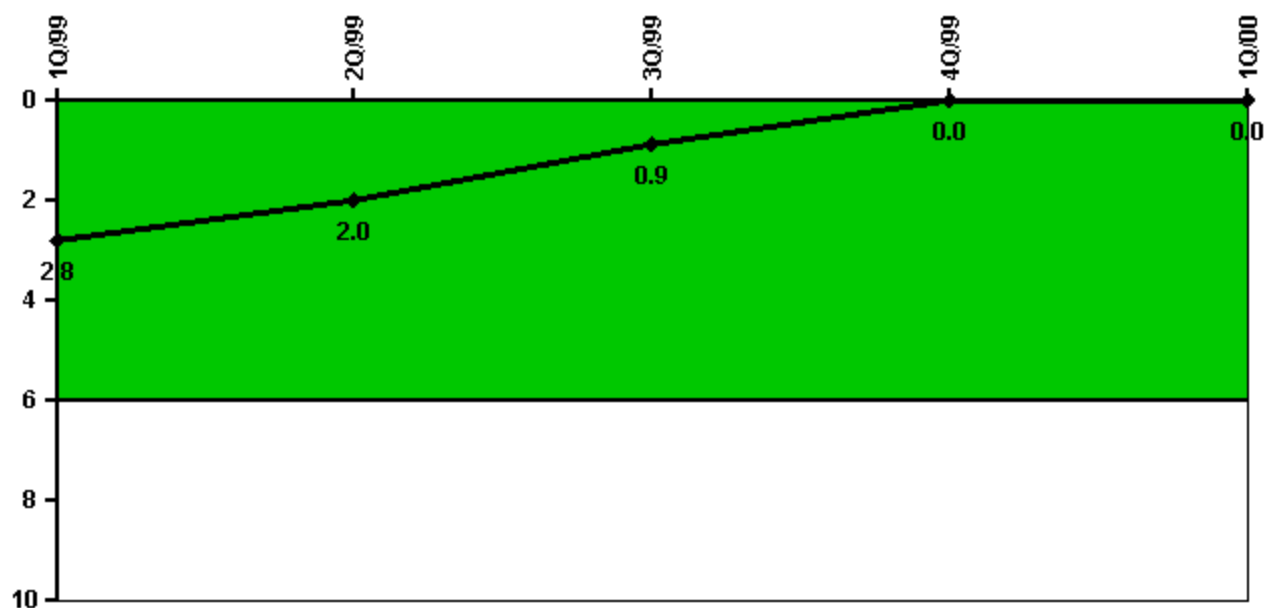
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Scrams	0	0	0	0	1.0
Indicator value	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/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned power changes	0	0	0	0	0
Critical hours	2160.0	2183.0	1478.5	1902.0	1099.5
Indicator value	2.8	2.0	0.9	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	98.38	6.03	73.45	52.85	2.12
Unplanned unavailable hours	5.08	1.48	0	38.47	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2184.00	2208.00	2208.00	2184.00
Train 2					
Planned unavailable hours	98.52	9.25	27.45	7.84	51.14
Unplanned unavailable hours	0	1.75	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2184.00	2208.00	2208.00	2184.00
Train 3					
Planned unavailable hours	95.89	6.58	10.83	34.25	3.81
Unplanned unavailable hours	0	1.80	26.17	0	0
Fault exposure hours	0	0	1443.93	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2184.00	2208.00	2208.00	2184.00
Indicator value				3.7%	3.5%

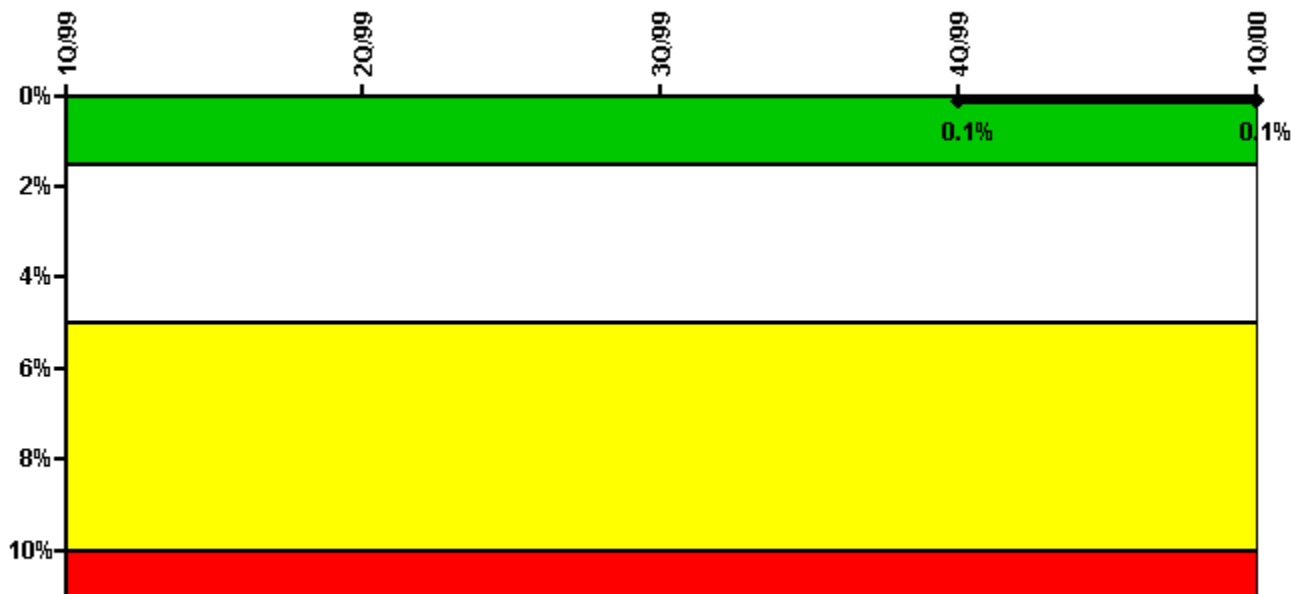
Licensee Comments:

3Q/99: Train 3 fault hours have been revised based on a detailed review of the historical data for 23 EDG.

3Q/99: Fault Exposure Hours Reset per NEI, "Supplemental Guidance for Fault Exposure Hour Reset", December 6, 2001

3Q/99: Train three was revised to reflect the removal of fault exposure hours. NRC supplemental inspection completed in Inspection Report 2001-002. All corrective actions have been completed.

Safety System Unavailability, High Pressure Injection System (HPSI)



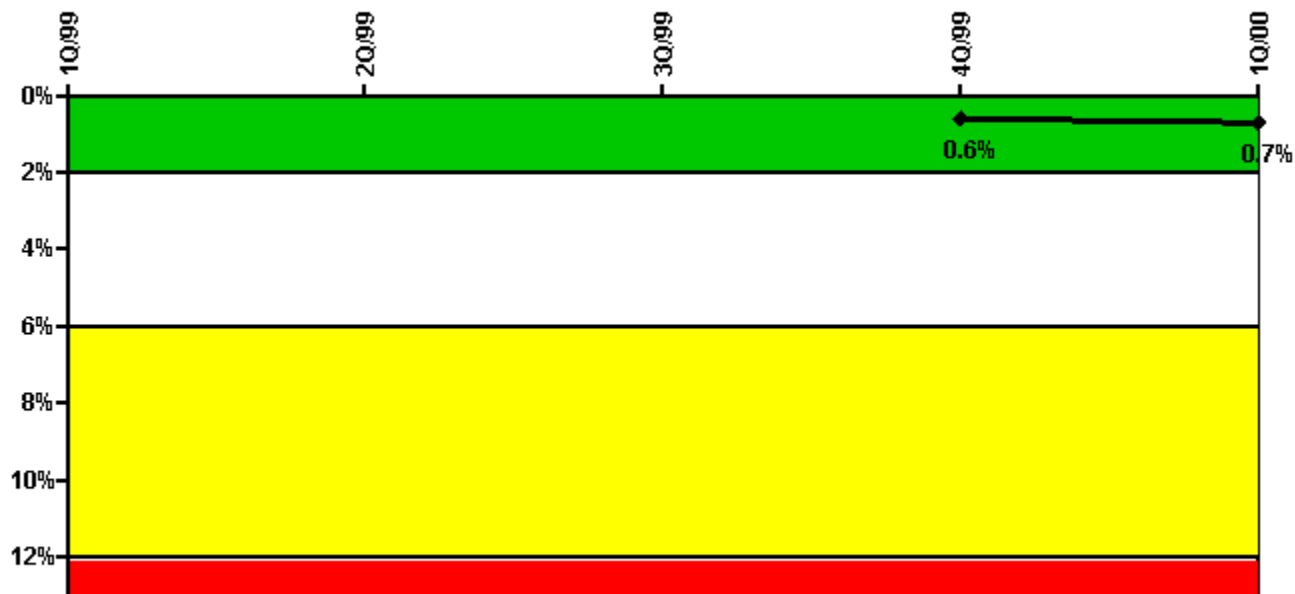
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	4.00	0	0	3.60
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	1478.50	1902.00	1099.50
Train 2					
Planned unavailable hours	3.00	0.30	0	3.50	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	1478.50	1902.00	1099.50
Train 3					
Planned unavailable hours	0.50	4.00	0	0	0
Unplanned unavailable hours	0	0	9.50	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	1478.50	1902.00	1099.50
Indicator value				0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



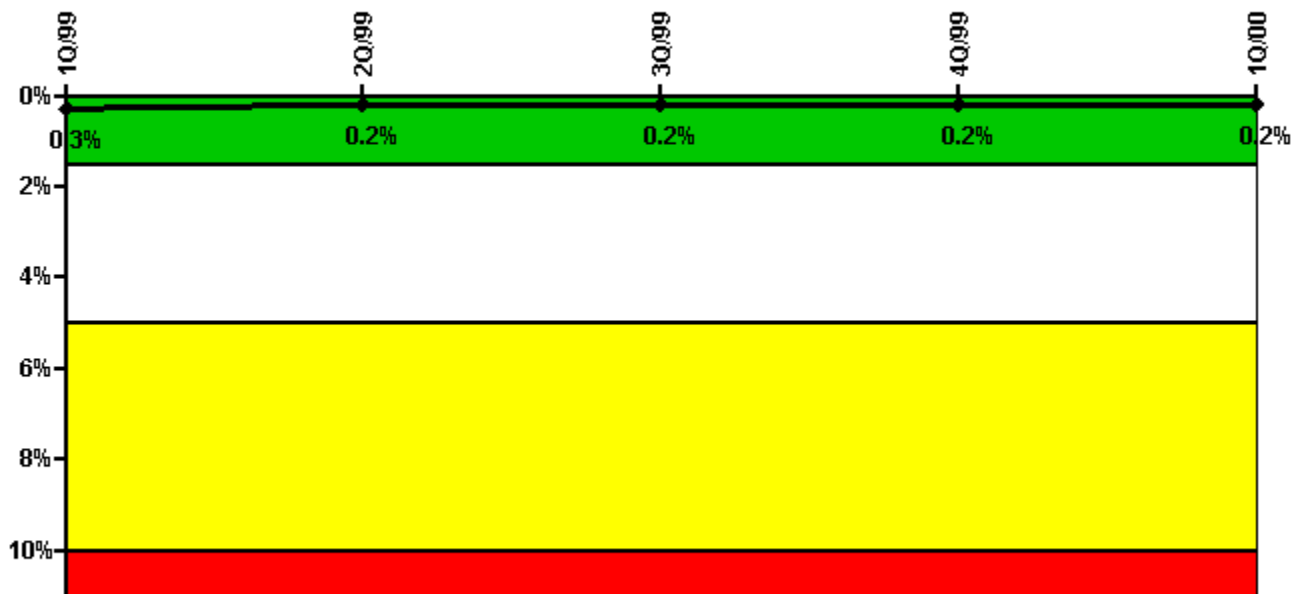
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	5.50	1.00	0	1.00	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	1478.50	1902.00	1099.50
Train 2					
Planned unavailable hours	5.00	12.00	11.00	2.50	13.70
Unplanned unavailable hours	8.50	5.00	0	0	0.30
Fault exposure hours	24.00	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	1478.50	1902.00	1099.50
Train 3					
Planned unavailable hours	1.50	2.00	6.00	2.00	13.00
Unplanned unavailable hours	0	0	26.50	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	1478.50	1902.00	1099.50
Indicator value				0.6%	0.7%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

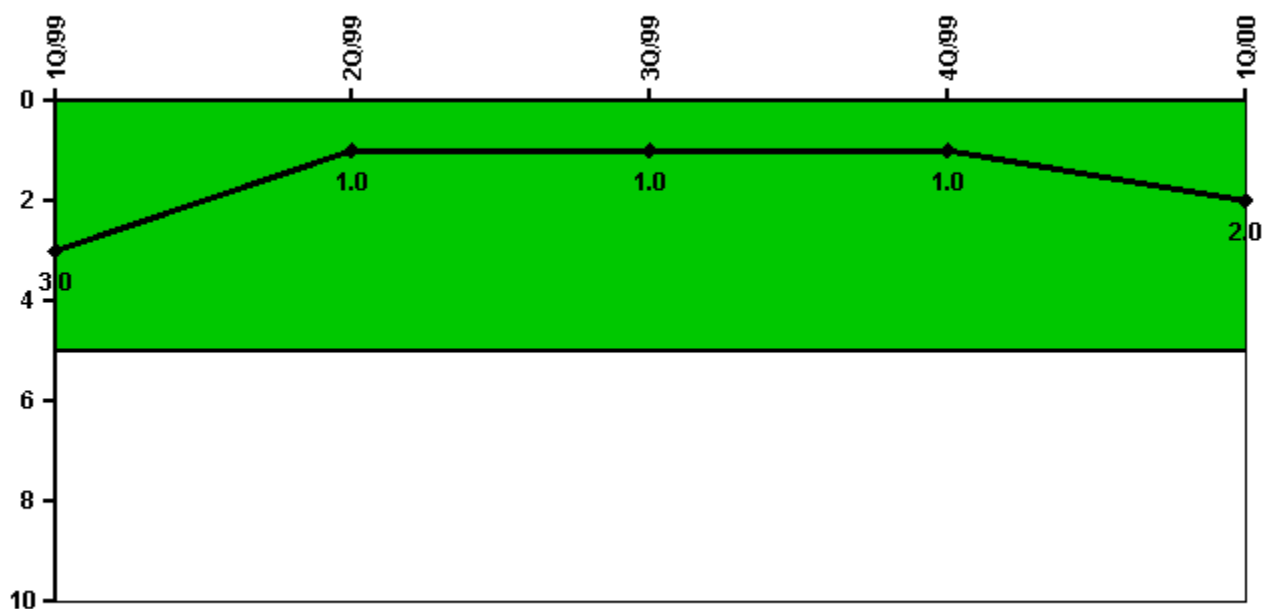
Notes

Safety System Unavailability, Residual Heat Removal System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	6.00	0	1.00	0.40	0.50
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Train 2					
Planned unavailable hours	0.50	0	6.00	0.10	0.50
Unplanned unavailable hours	0	0	10.50	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	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Train 4					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0

Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value	0.3%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)



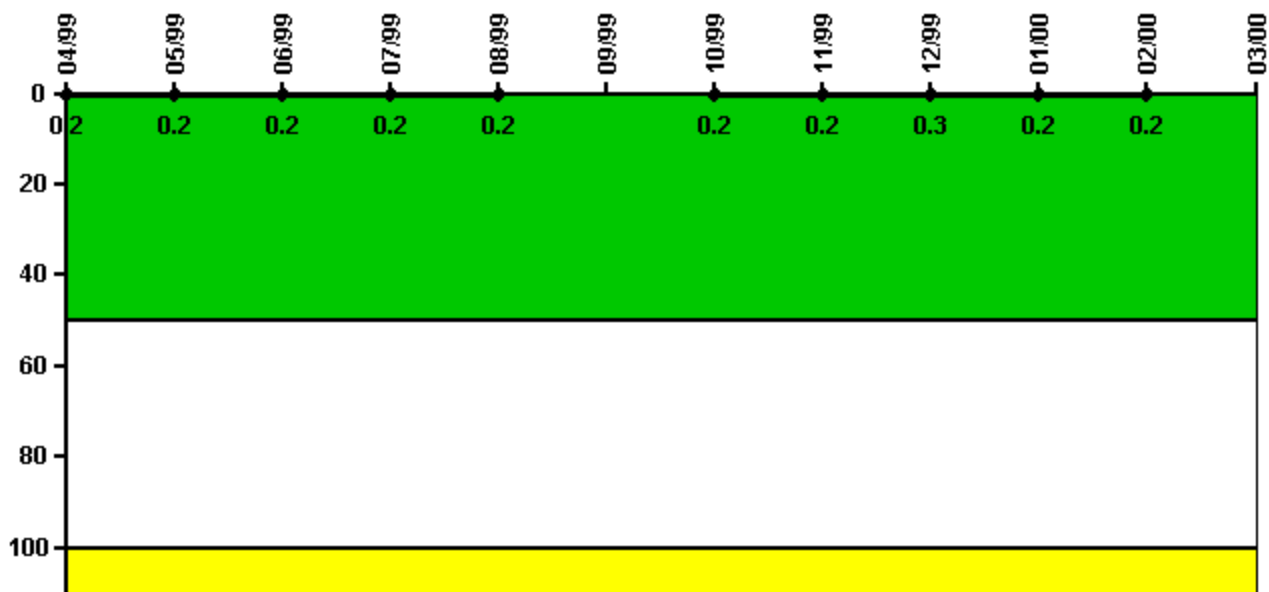
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

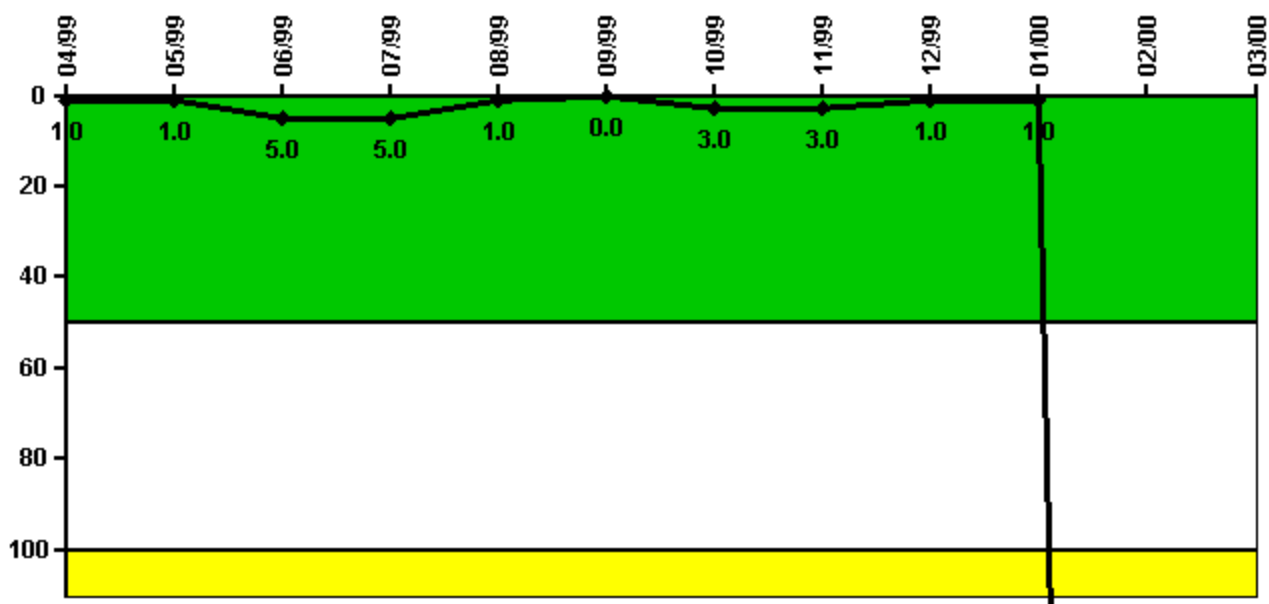
Notes

Reactor Coolant System Activity	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum activity	0.002150	0.002170	0.002060	0.002340	0.002370		0.002190	0.002300	0.002600	0.002390	0.002280	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0.2	0.2		0.2	0.2	0.3	0.2	0.2	N/A

Licensee Comments:

3/00: Plant shut down during March, 2000.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

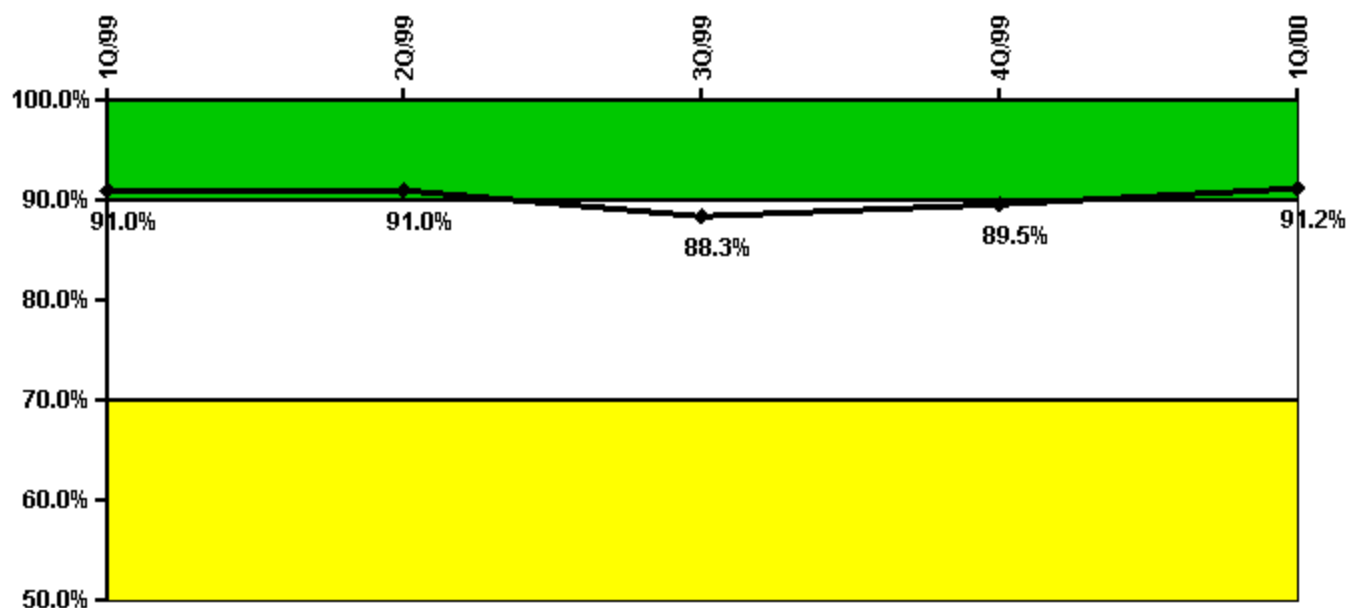
Notes

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	0.100	0.100	0.500	0.500	0.100	0	0.300	0.300	0.100	0.100	109.000	N/A
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.0	5.0	5.0	1.0	0	3.0	3.0	1.0	1.0	1090.0	N/A

Licensee Comments:

3/00: Steam Generator tube failure on 2/15/2000.

Drill/Exercise Performance



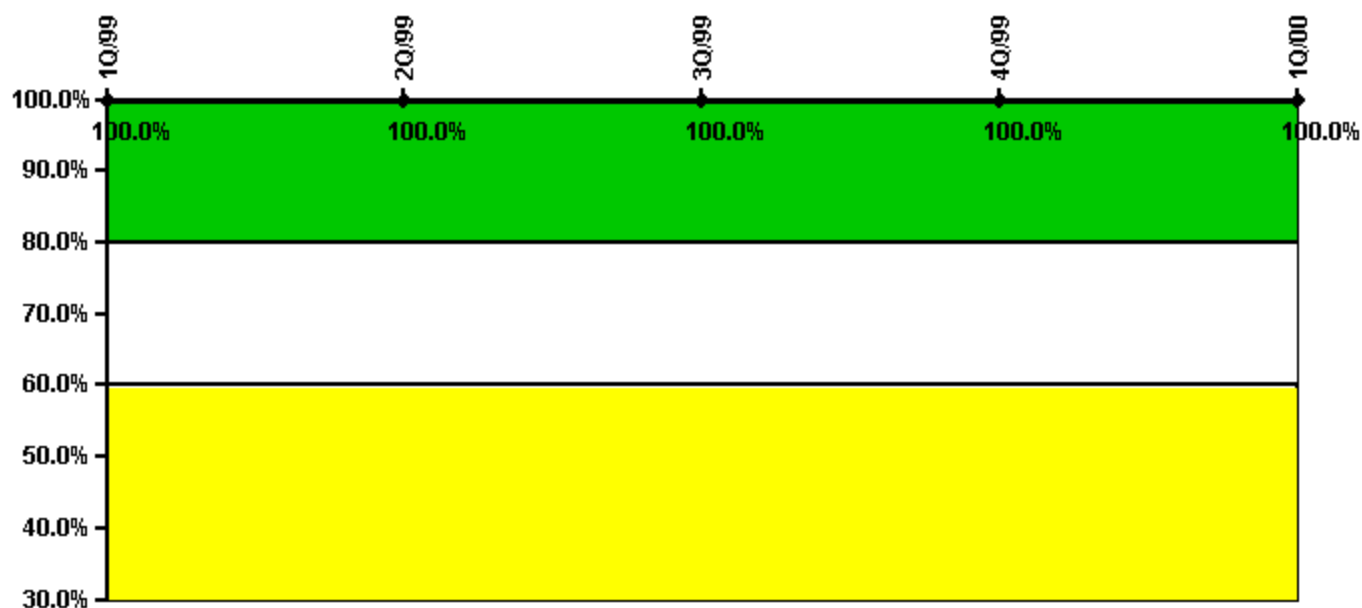
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful opportunities	6.0	0	22.0	28.0	29.0
Total opportunities	7.0	0	27.0	28.0	30.0
Indicator value	91.0%	91.0%	88.3%	89.5%	91.2%

Licensee Comments: none

ERO Drill Participation



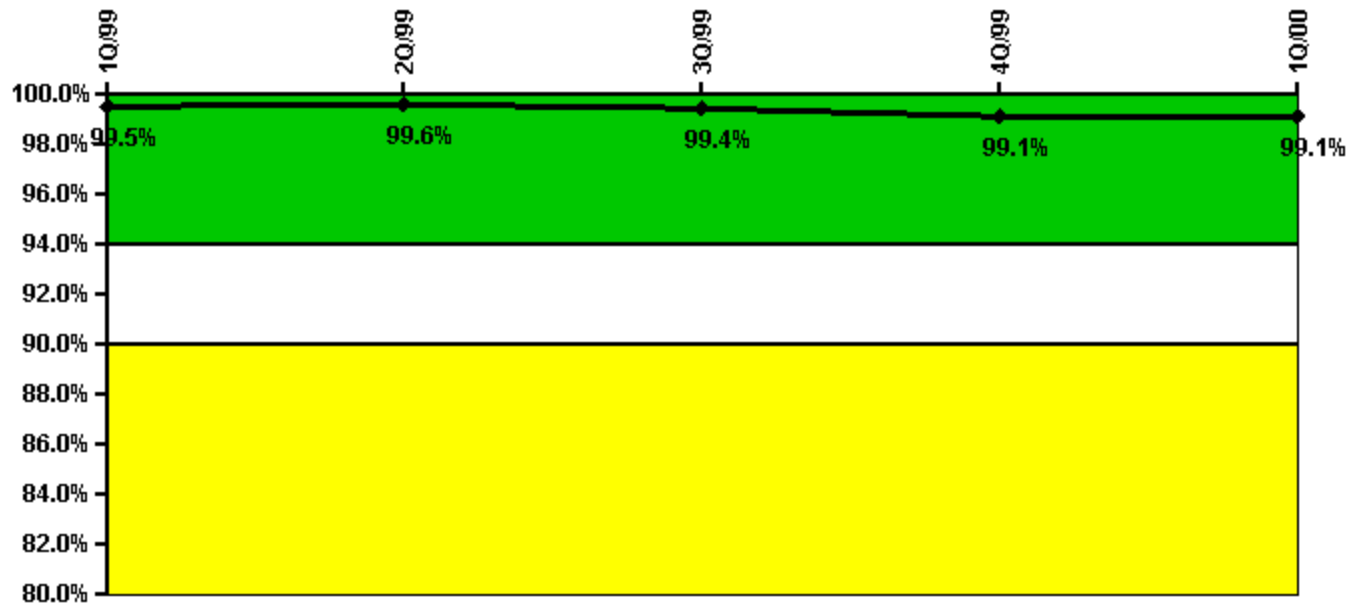
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Participating Key personnel	60.0	60.0	59.0	63.0	62.0
Total Key personnel	60.0	60.0	59.0	63.0	62.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

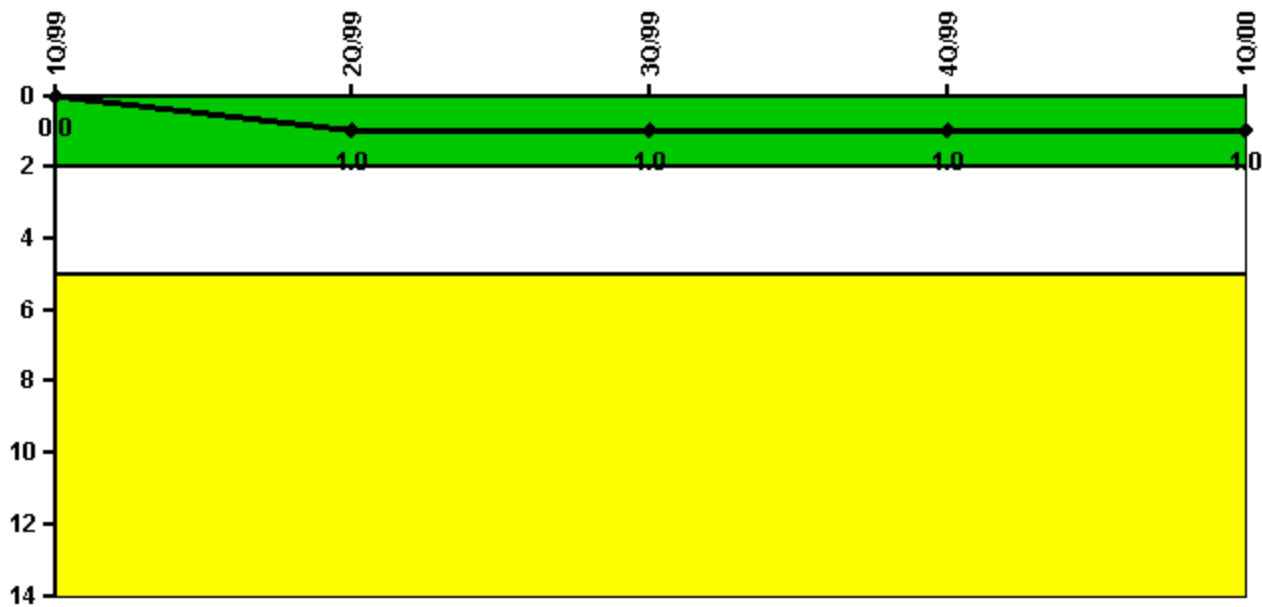
Notes

Alert & Notification System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful siren-tests	1073	1071	1067	1217	920
Total sirens-tests	1078	1078	1078	1232	924
Indicator value	99.5%	99.6%	99.4%	99.1%	99.1%

Licensee Comments:

3Q/99: We have revised our historical data for 3Q99 due to a difference in how we interpret a siren test.

Occupational Exposure Control Effectiveness



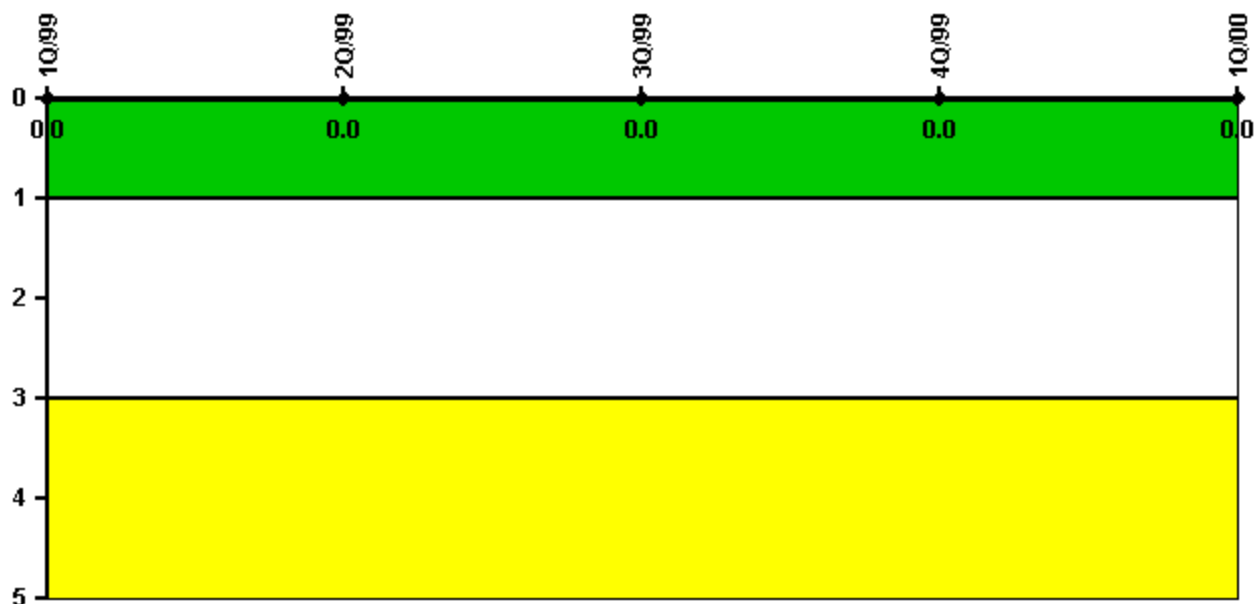
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments:

4Q/99: We have revised our 4Q99 data based on a detailed review of the historical data using FAQs and NEI 99-02, Rev D.

RETS/ODCM Radiological Effluent

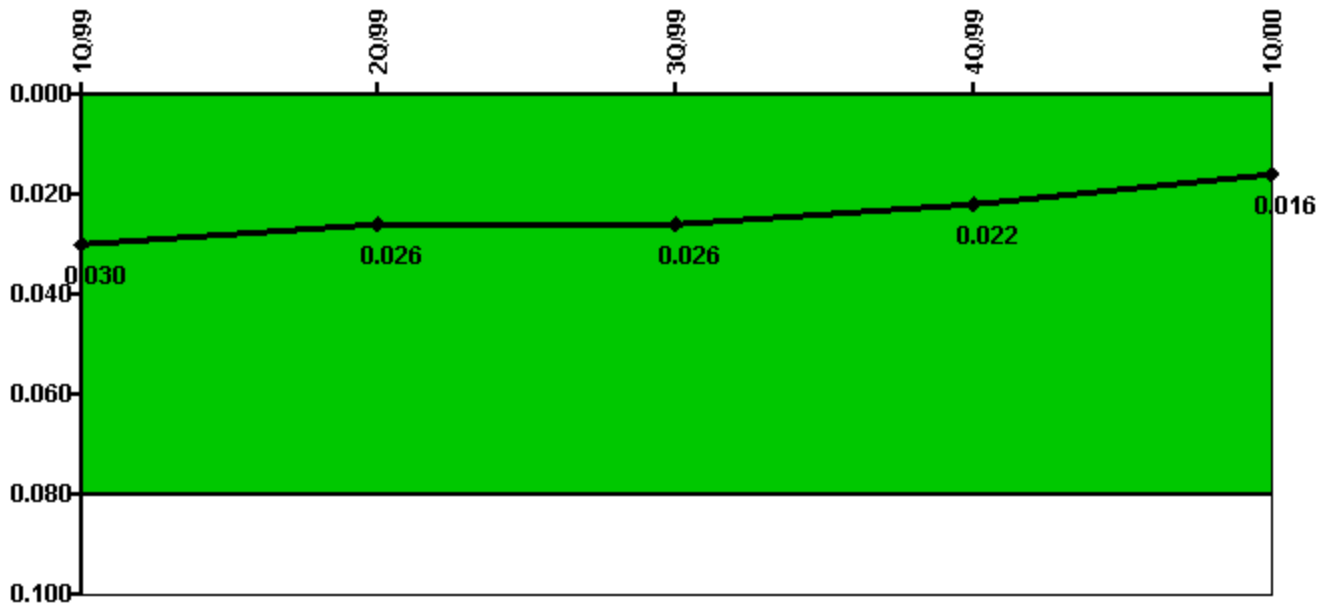
Thresholds: White > 1.0 Yellow > 3.0

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



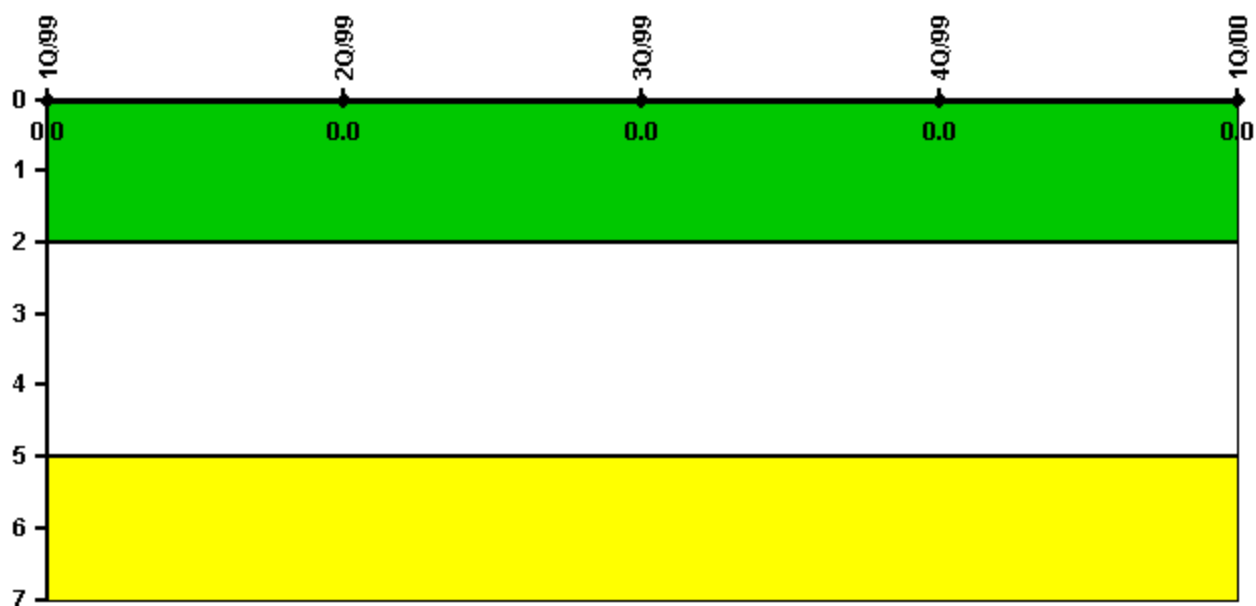
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
IDS compensatory hours	231.93	0	93.37	10.25	0
CCTV compensatory hours	0	2.4	0	56.5	135.7
IDS normalization factor	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1
Index Value	0.030	0.026	0.026	0.022	0.016

Licensee Comments: none

Personnel Screening Program



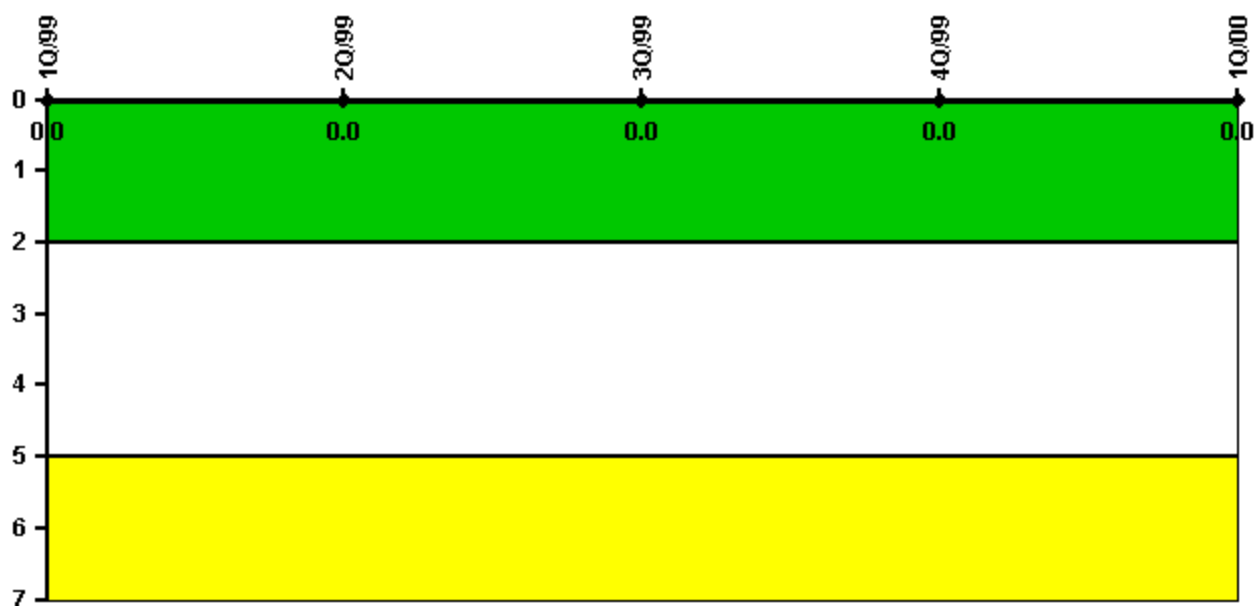
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none



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

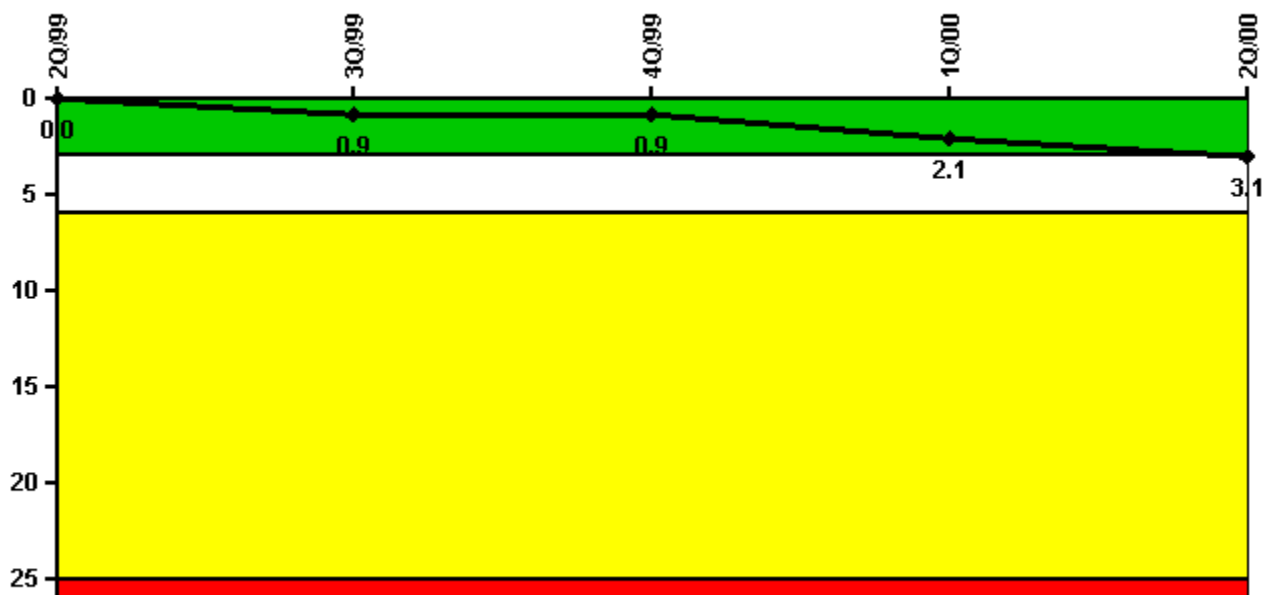
Last Modified: April 1, 2002

Indian Point 2

2Q/2000 Performance Indicators

Licensee's General Comments: Unit off-line for 2nd quarter.

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

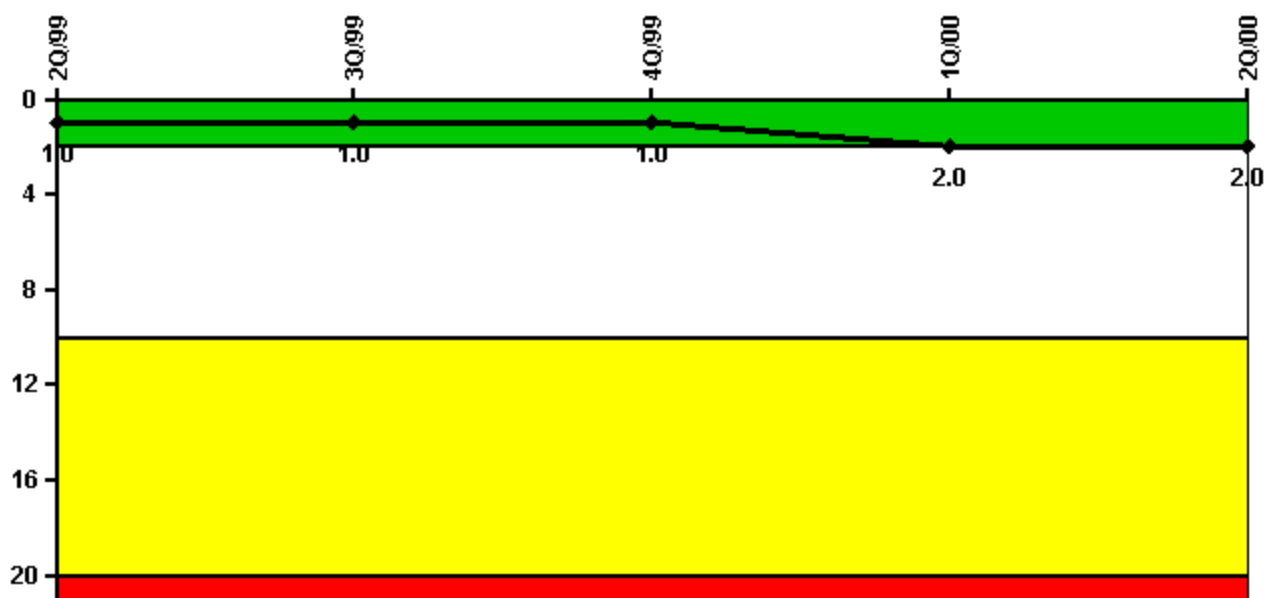
Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned scrams	0	1.0	0	1.0	0
Critical hours	2183.0	1478.5	1902.0	1099.5	0
Indicator value	0	0.9	0.9	2.1	3.1

Licensee Comments:

2Q/00: Unit off-line for 2nd quarter.

Scrams with Loss of Normal Heat Removal



Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

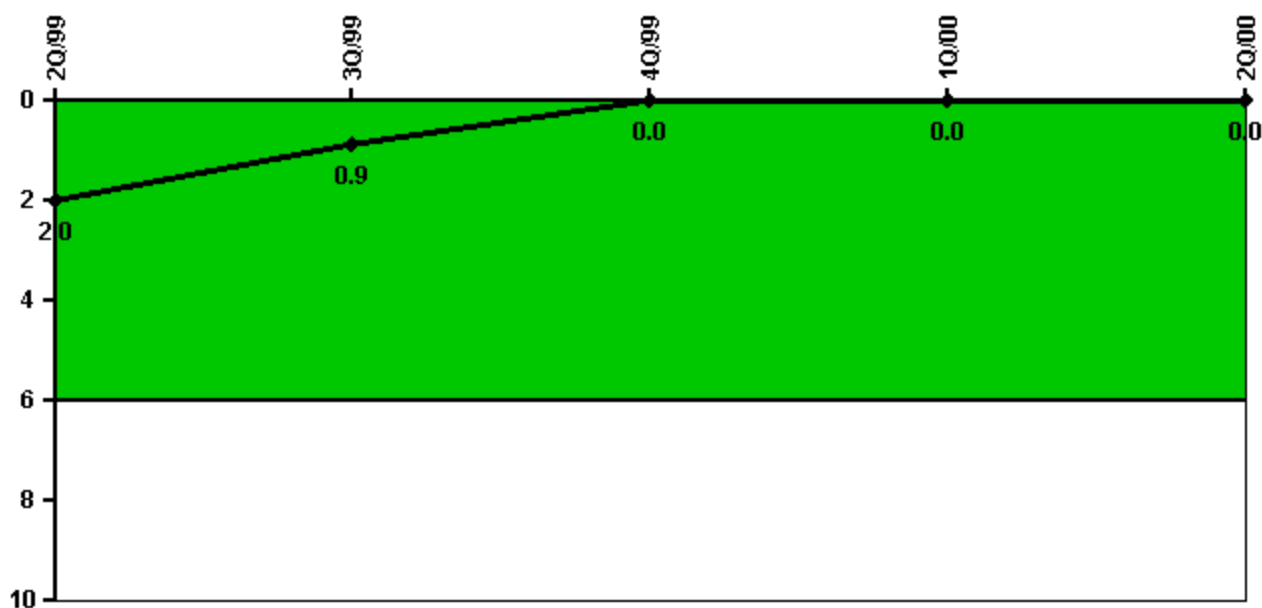
Notes

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

Licensee Comments:

2Q/00: Unit off-line for 2nd quarter.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

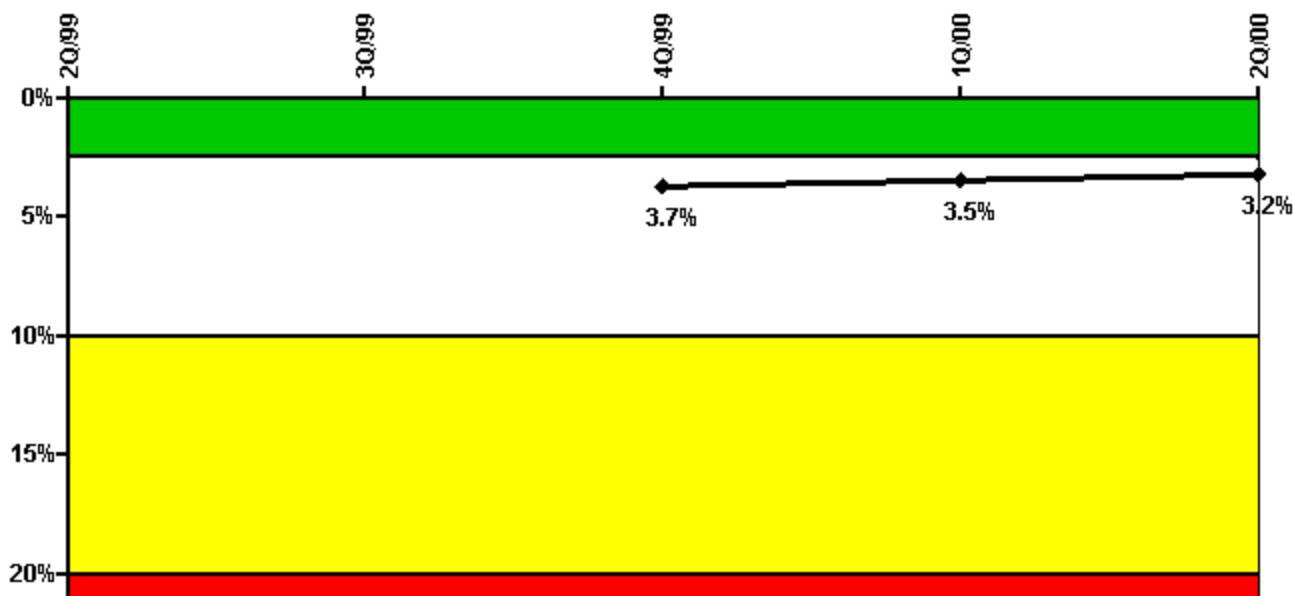
Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned power changes	0	0	0	0	0
Critical hours	2183.0	1478.5	1902.0	1099.5	0
Indicator value	2.0	0.9	0	0	0

Licensee Comments:

2Q/00: Unit off-line for 2nd quarter.

Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

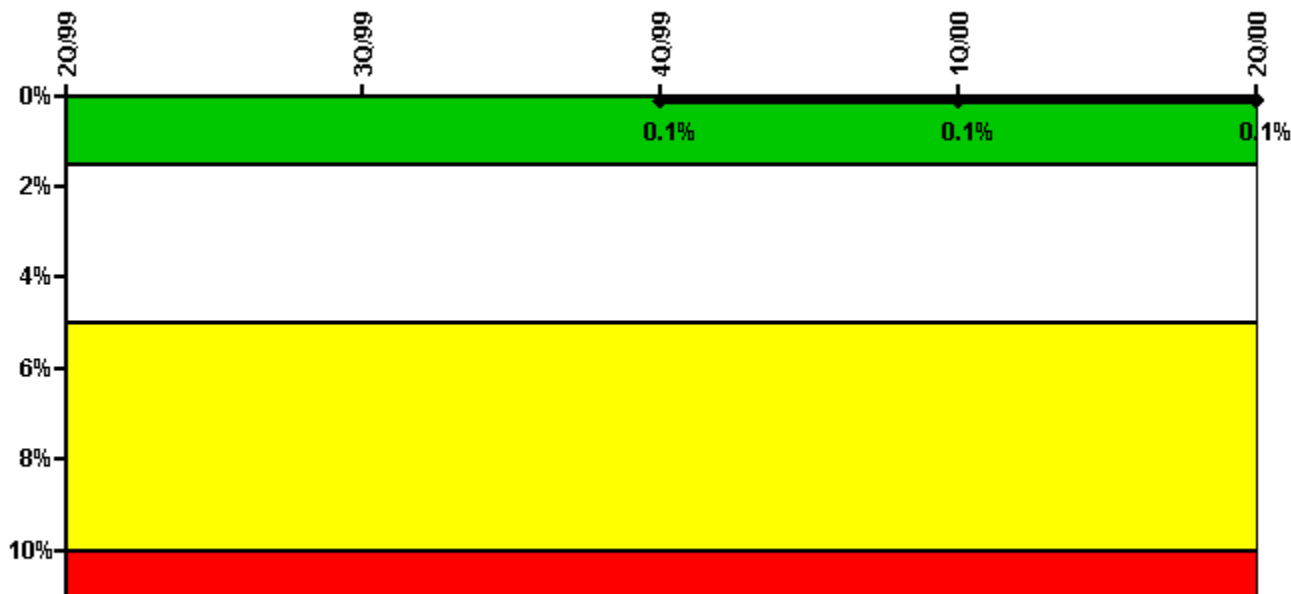
Safety System Unavailability, Emergency AC Power, >2EDG	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	6.03	73.45	52.85	2.12	0
Unplanned unavailable hours	1.48	0	38.47	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2184.00	2208.00	2208.00	2184.00	2184.00
Train 2					
Planned unavailable hours	9.25	27.45	7.84	51.14	0
Unplanned unavailable hours	1.75	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2184.00	2208.00	2208.00	2184.00	2184.00
Train 3					
Planned unavailable hours	6.58	10.83	34.25	3.81	0
Unplanned unavailable hours	1.80	26.17	0	0	0
Fault exposure hours	0	1443.93	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2184.00	2208.00	2208.00	2184.00	2184.00
Indicator value			3.7%	3.5%	3.2%

Licensee Comments:

3Q/99: Fault Exposure Hours Reset per NEI, "Supplemental Guidance for Fault Exposure Hour Reset", December 6, 2001

3Q/99: Train three was revised to reflect the removal of fault exposure hours. NRC supplemental inspection completed in Inspection Report 2001-002. All corrective actions have been completed.

Safety System Unavailability, High Pressure Injection System (HPSI)



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

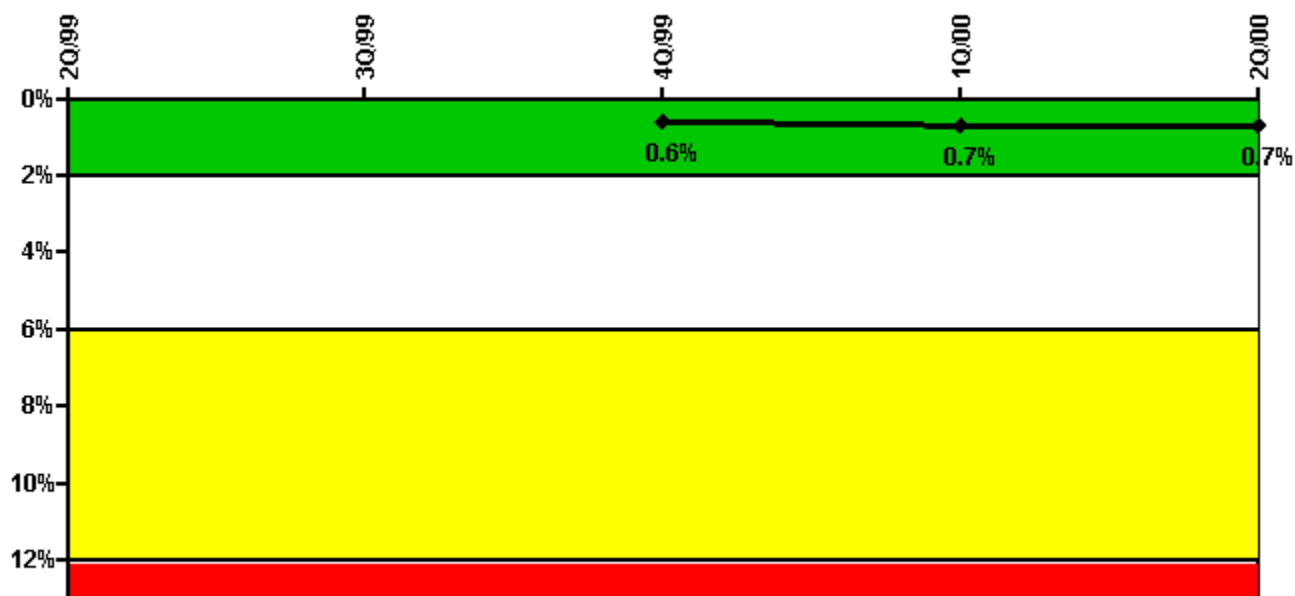
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	4.00	0	0	3.60	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	1478.50	1902.00	1099.50	0
Train 2					
Planned unavailable hours	0.30	0	3.50	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	1478.50	1902.00	1099.50	0
Train 3					
Planned unavailable hours	4.00	0	0	0	0
Unplanned unavailable hours	0	9.50	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	1478.50	1902.00	1099.50	0
Indicator value			0.1%	0.1%	0.1%

Licensee Comments:

2Q/00: Unit off-line for the 2nd quarter.

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	1.00	0	1.00	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	1478.50	1902.00	1099.50	0
Train 2					
Planned unavailable hours	12.00	11.00	2.50	13.70	0
Unplanned unavailable hours	5.00	0	0	0.30	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	1478.50	1902.00	1099.50	0
Train 3					
Planned unavailable hours	2.00	6.00	2.00	13.00	0
Unplanned unavailable hours	0	26.50	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	1478.50	1902.00	1099.50	0
Indicator value			0.6%	0.7%	0.7%

Licensee Comments:

2Q/00: Unit off-line for 2nd quarter.

Safety System Unavailability, Residual Heat Removal System



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

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0	1.00	0.40	0.50	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
Train 2					
Planned unavailable hours	0	6.00	0.10	0.50	0
Unplanned unavailable hours	0	10.50	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
Train 3					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	0
Train 4					

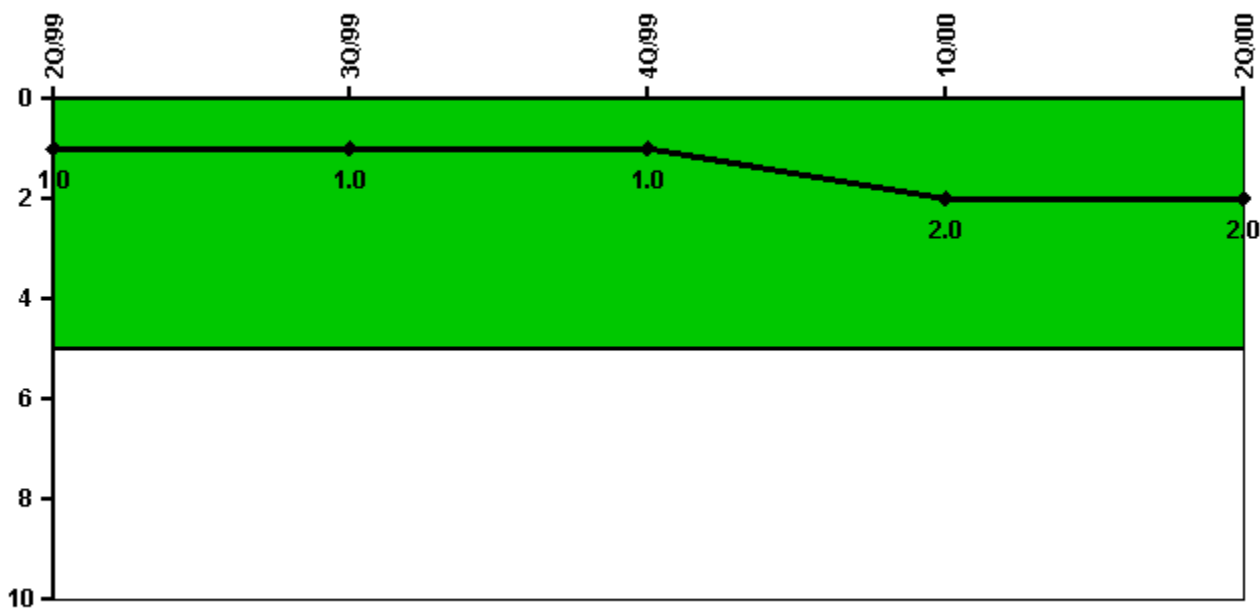
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	0
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments:

2Q/00: Unit off-line for 2nd quarter.

2Q/00: Unit off-line for 2nd quarter.

Safety System Functional Failures (PWR)



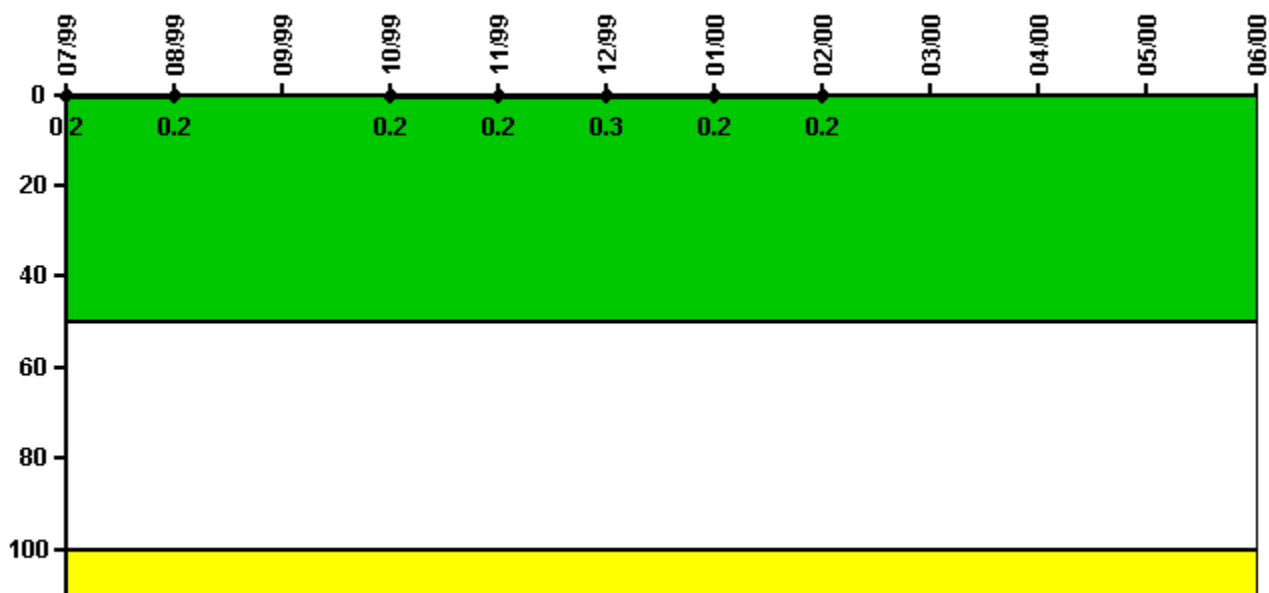
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

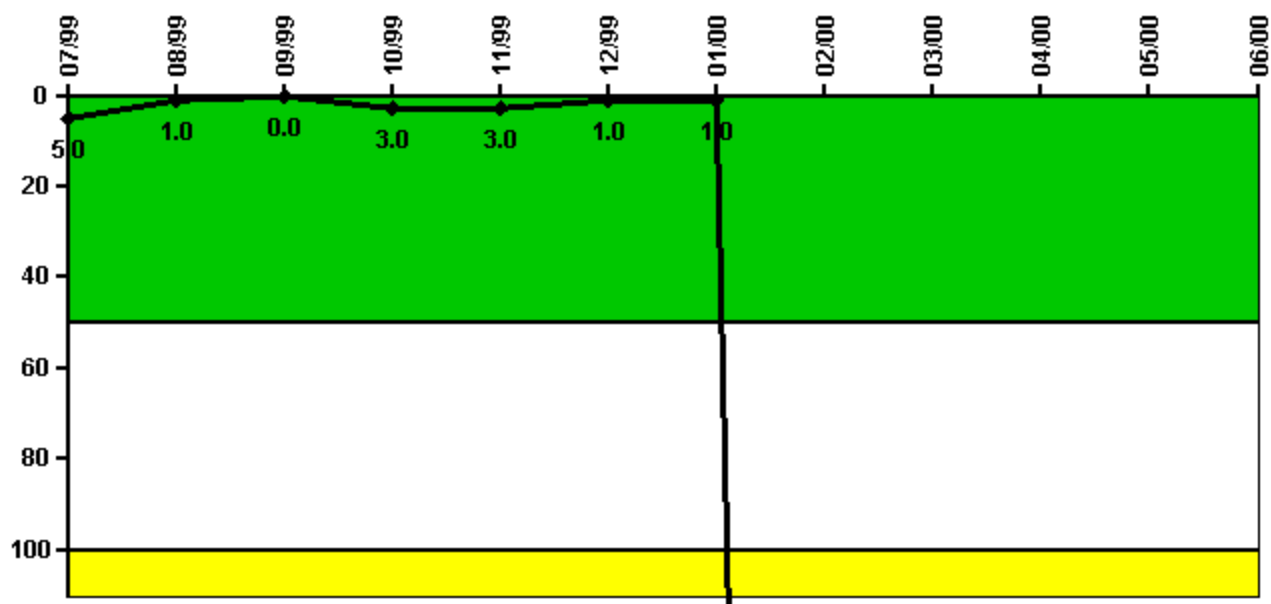
Notes

Reactor Coolant System Activity	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum activity	0.002340	0.002370		0.002190	0.002300	0.002600	0.002390	0.002280	N/A	N/A	N/A	N/A
Technical specification limit	1.0	1.0		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2		0.2	0.2	0.3	0.2	0.2	N/A	N/A	N/A	N/A

Licensee Comments:

6/00: Unit off-line for 2nd quarter.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

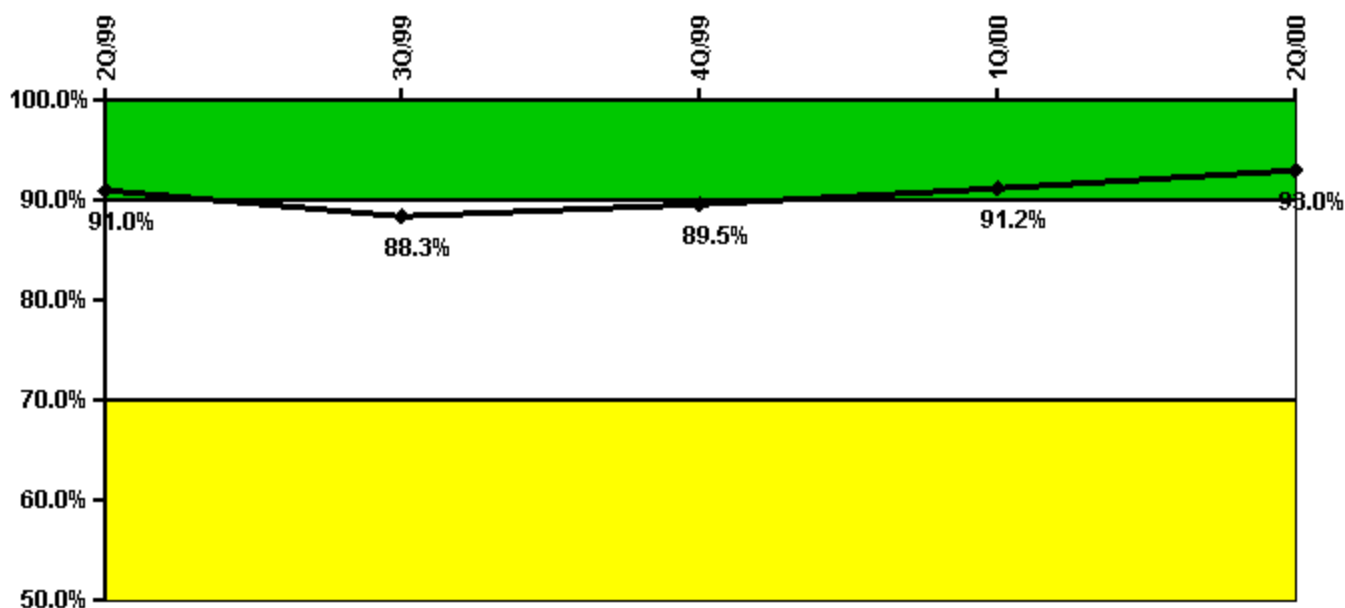
Reactor Coolant System Leakage	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum leakage	0.500	0.100	0	0.300	0.300	0.100	0.100	109.000	N/A	N/A	N/A	N/A
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	5.0	1.0	0	3.0	3.0	1.0	1.0	1090.0	N/A	N/A	N/A	N/A

Licensee Comments:

6/00: Unit off-line for 2nd quarter.

6/00: Unit off-line for 2nd quarter.

Drill/Exercise Performance



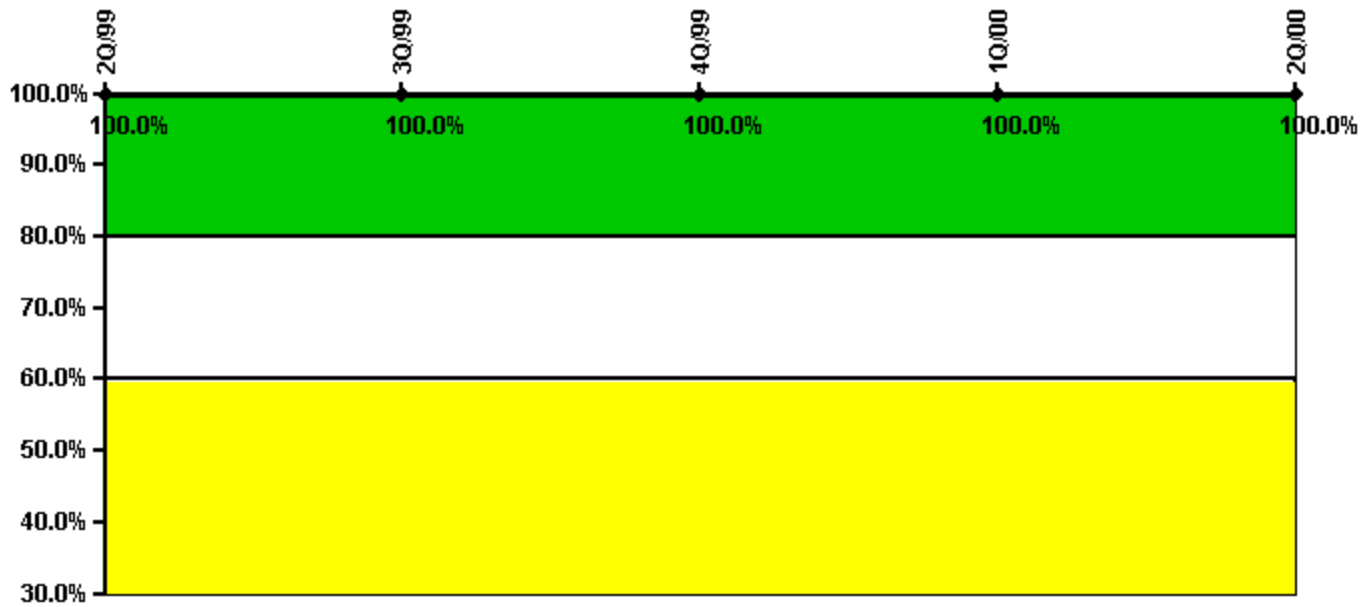
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful opportunities	0	22.0	28.0	29.0	30.0
Total opportunities	0	27.0	28.0	30.0	30.0
Indicator value	91.0%	88.3%	89.5%	91.2%	93.0%

Licensee Comments: none

ERO Drill Participation



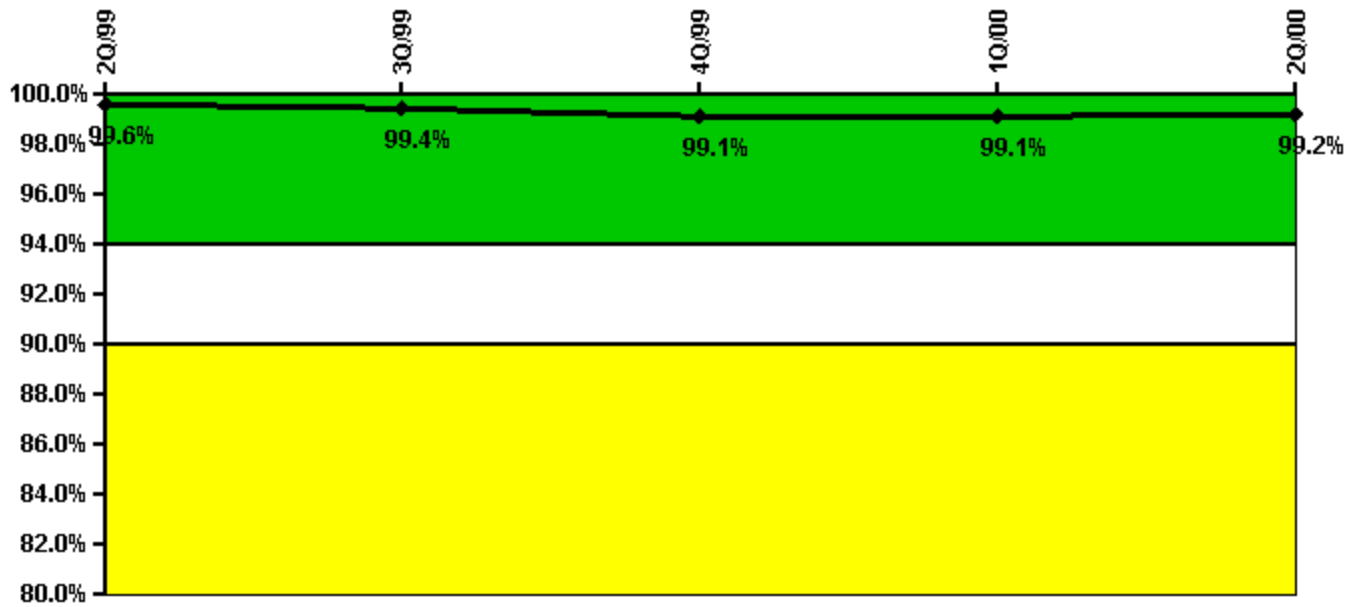
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Participating Key personnel	60.0	59.0	63.0	62.0	67.0
Total Key personnel	60.0	59.0	63.0	62.0	67.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



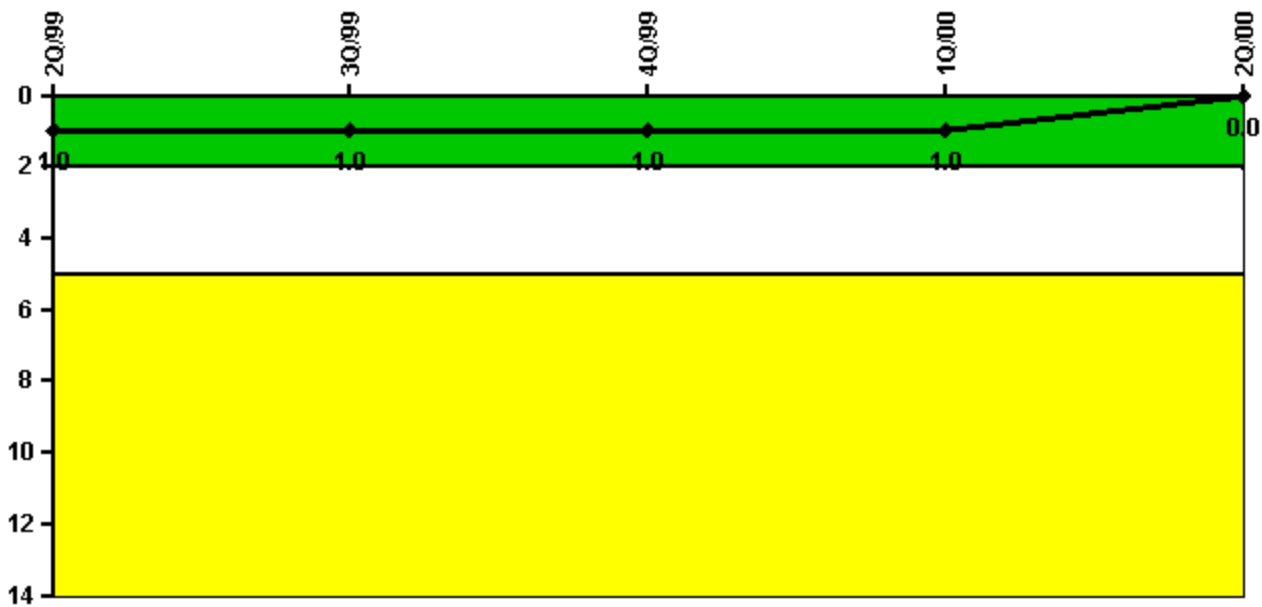
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful siren-tests	1071	1067	1217	920	1225
Total sirens-tests	1078	1078	1232	924	1232
Indicator value	99.6%	99.4%	99.1%	99.1%	99.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness

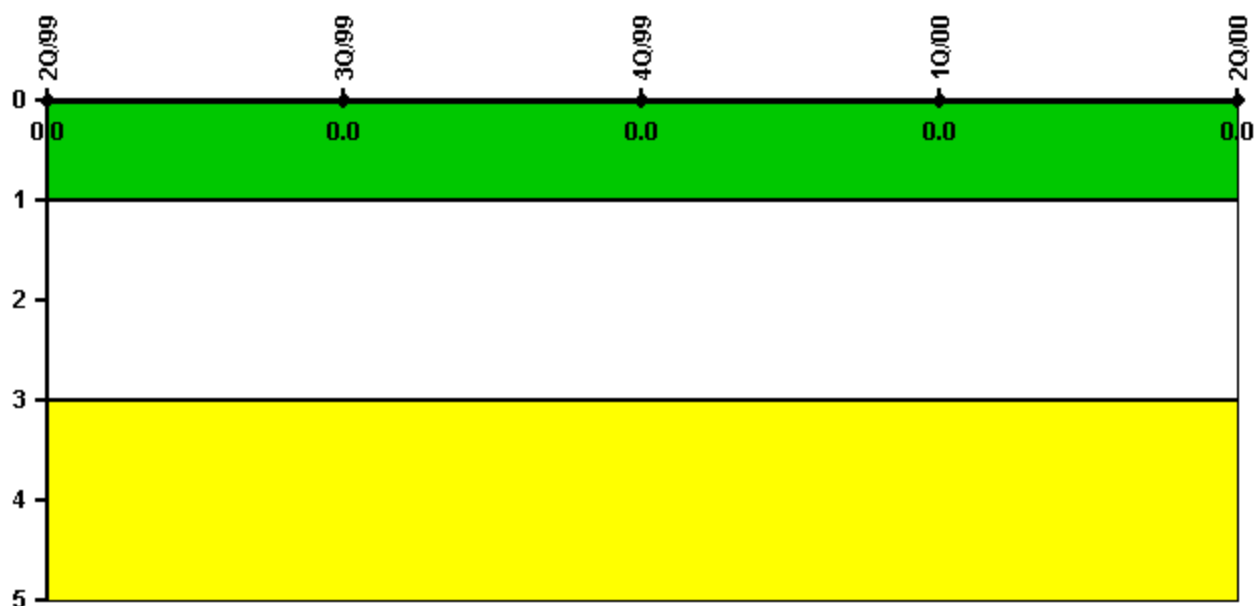


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

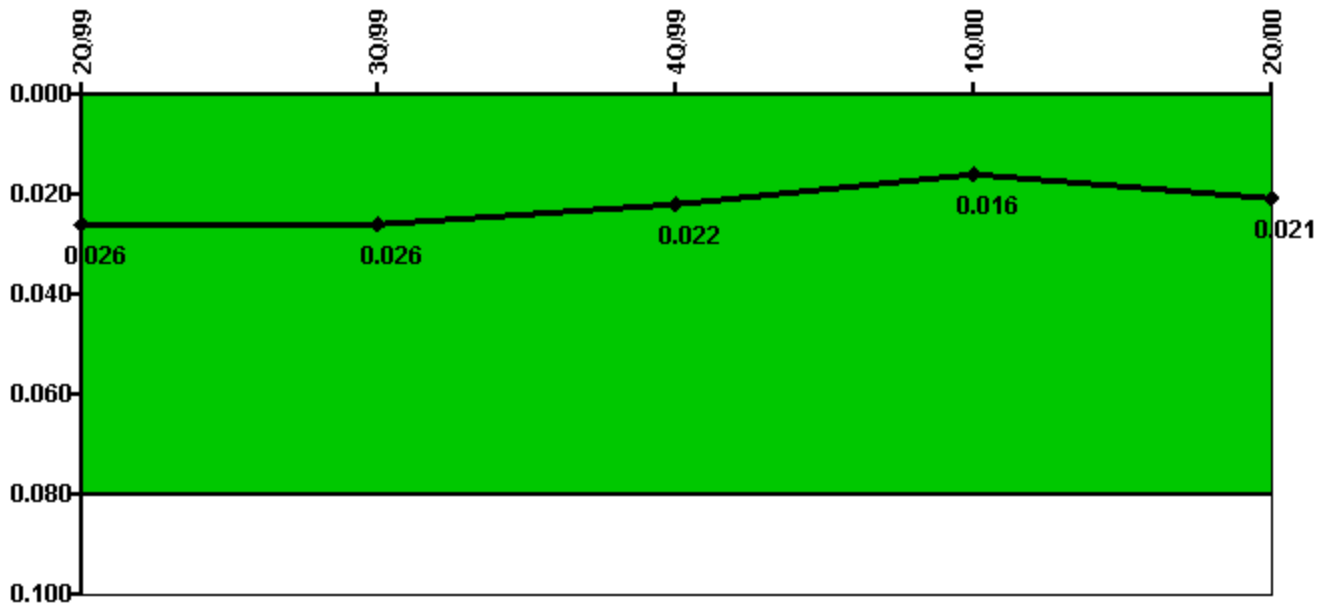
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



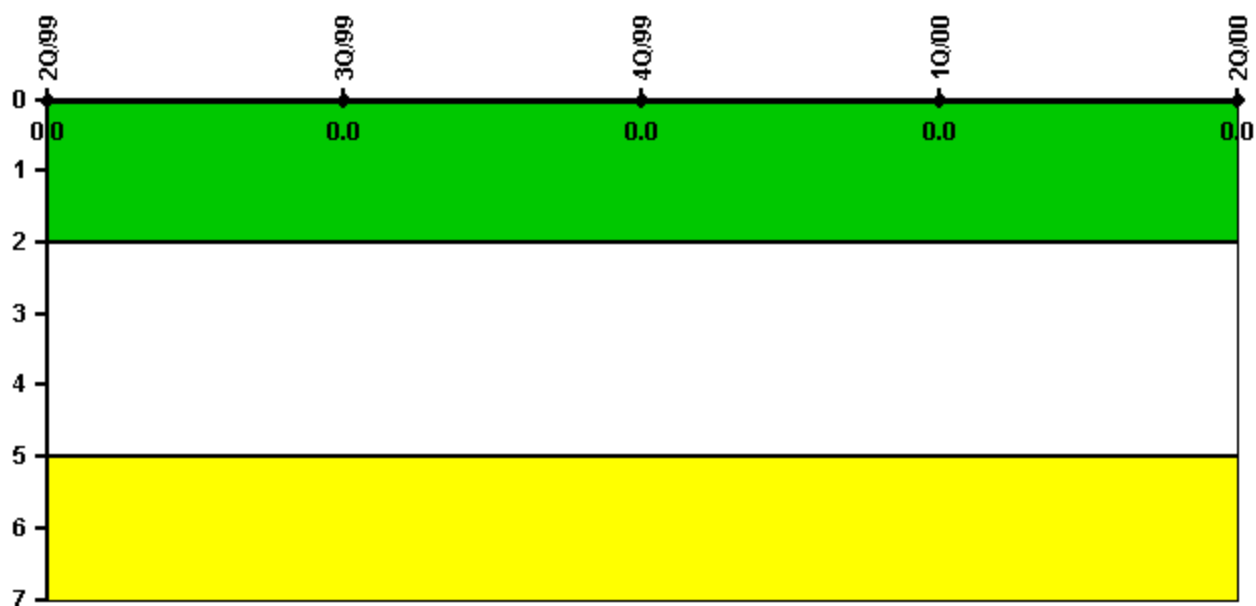
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
IDS compensatory hours	0	93.37	10.25	0	90.82
CCTV compensatory hours	2.4	0	56.5	135.7	0.6
IDS normalization factor	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1
Index Value	0.026	0.026	0.022	0.016	0.021

Licensee Comments: none

Personnel Screening Program



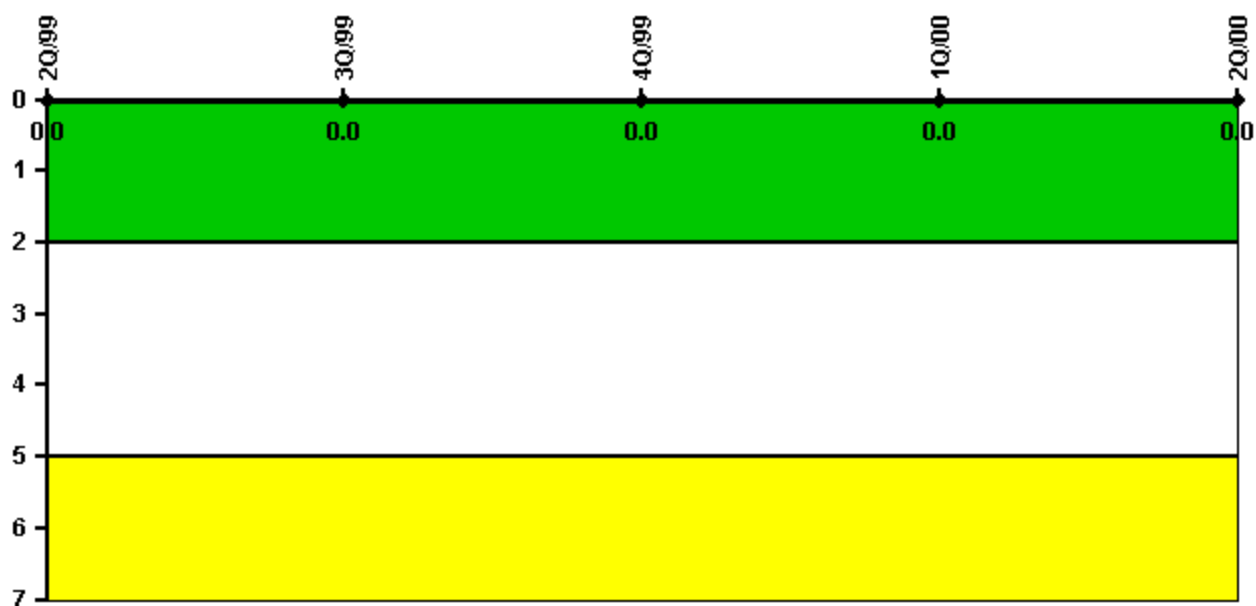
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none



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

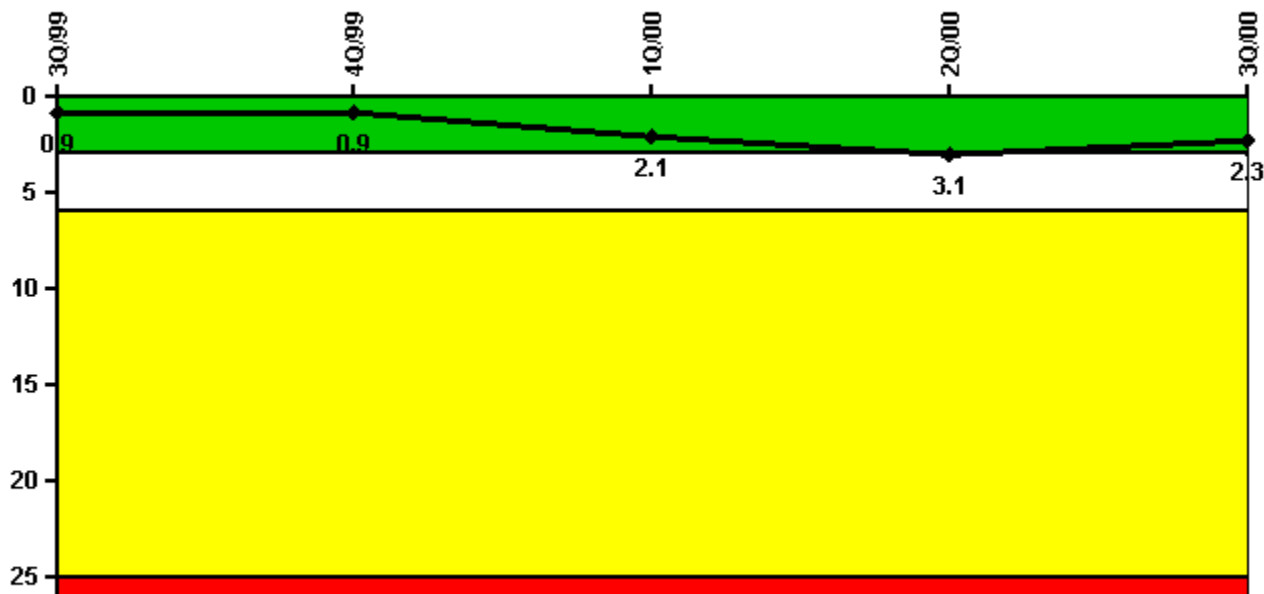
Last Modified: April 1, 2002

Indian Point 2

3Q/2000 Performance Indicators

Licensee's General Comments: Chage report submitted after notification by NEI that original submittal was missing RETS/ODCM and ANS reliability data.

Unplanned Scrams per 7000 Critical Hrs



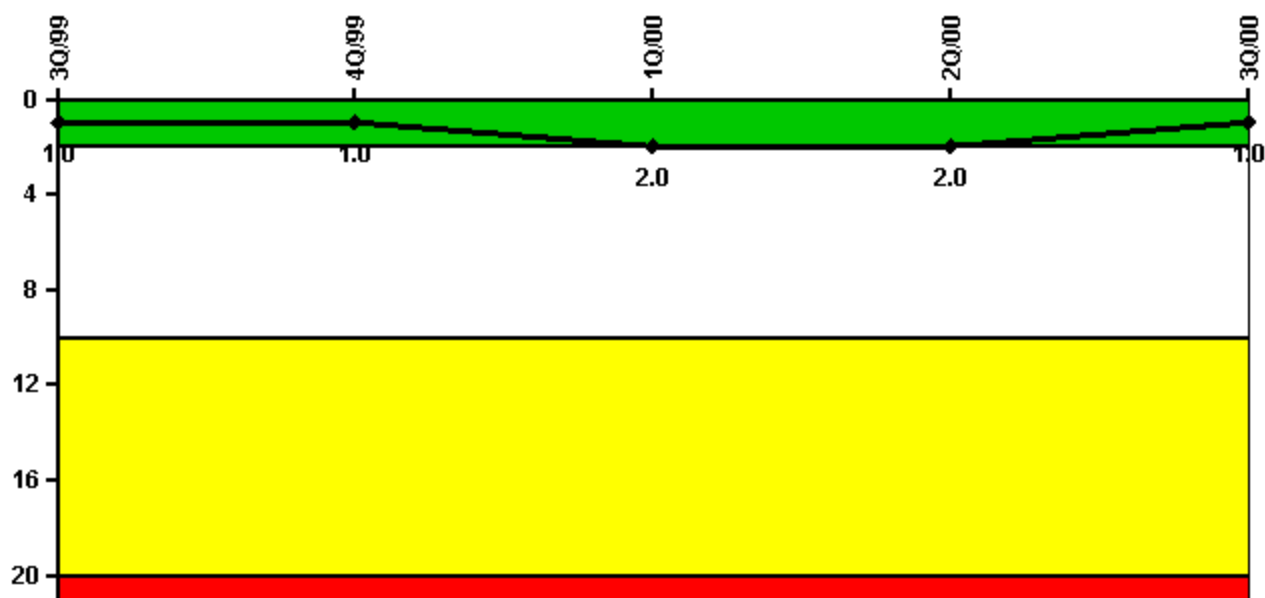
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned scrams	1.0	0	1.0	0	0
Critical hours	1478.5	1902.0	1099.5	0	0
Indicator value	0.9	0.9	2.1	3.1	2.3

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



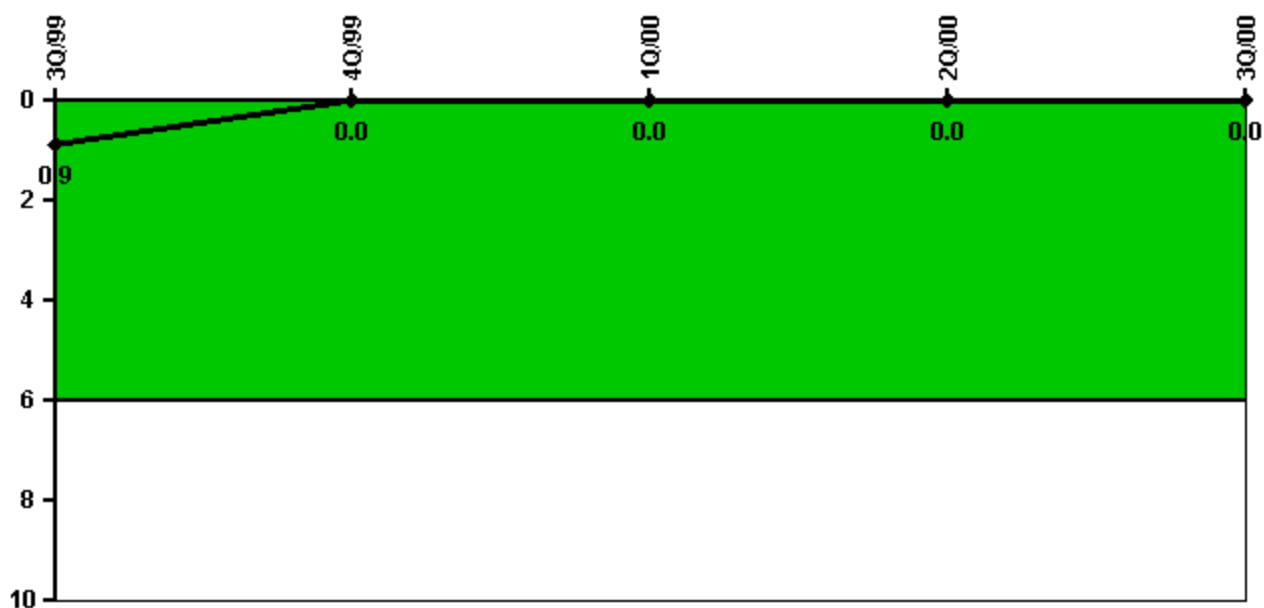
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



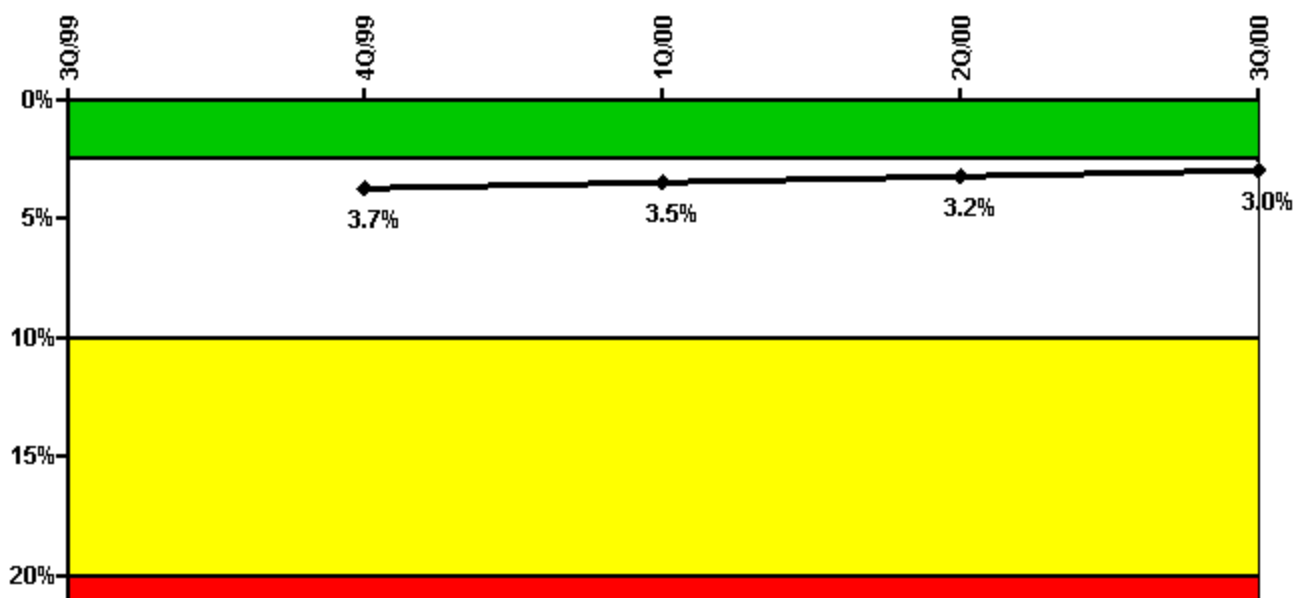
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned power changes	0	0	0	0	0
Critical hours	1478.5	1902.0	1099.5	0	0
Indicator value	0.9	0	0	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

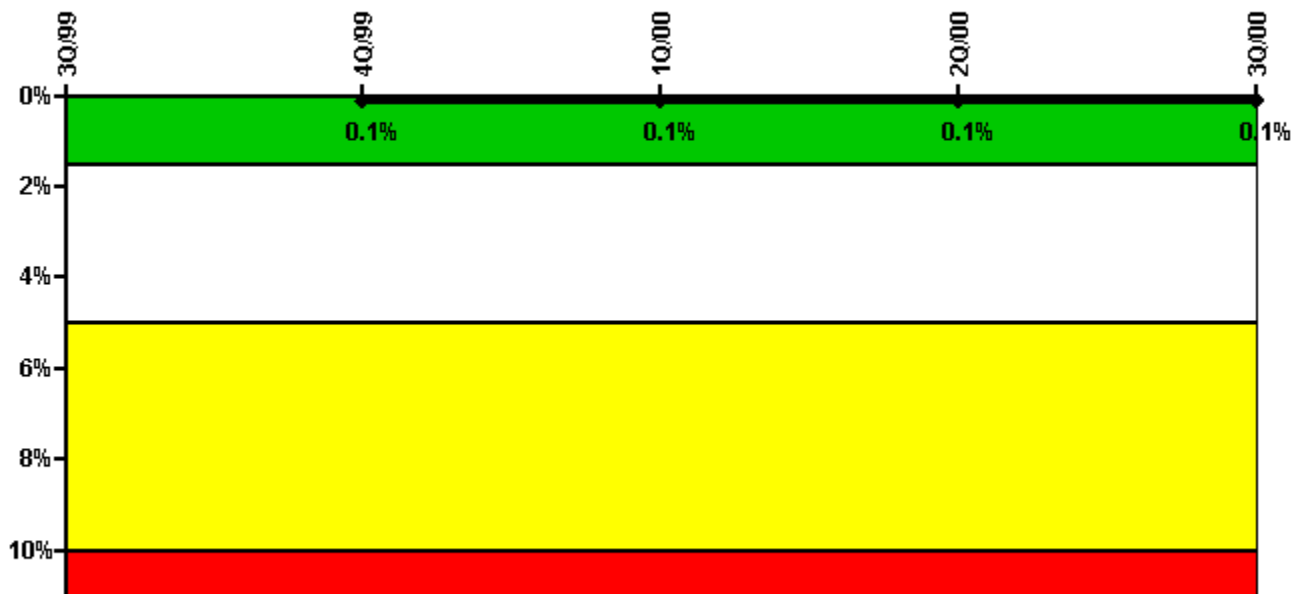
Safety System Unavailability, Emergency AC Power, >2EDG	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	73.45	52.85	2.12	0	0
Unplanned unavailable hours	0	38.47	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2208.00	2184.00	2184.00	2208.00
Train 2					
Planned unavailable hours	27.45	7.84	51.14	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	2208.00	2184.00	2184.00	2208.00
Train 3					
Planned unavailable hours	10.83	34.25	3.81	0	0
Unplanned unavailable hours	26.17	0	0	0	0
Fault exposure hours	1443.93	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2208.00	2184.00	2184.00	2208.00
Indicator value		3.7%	3.5%	3.2%	3.0%

Licensee Comments:

3Q/99: Fault Exposure Hours Reset per NEI, "Supplemental Guidance for Fault Exposure Hour Reset", December 6, 2001

3Q/99: Train three was revised to reflect the removal of fault exposure hours. NRC supplemental inspection completed in Inspection Report 2001-002. All corrective actions have been completed.

Safety System Unavailability, High Pressure Injection System (HPSI)



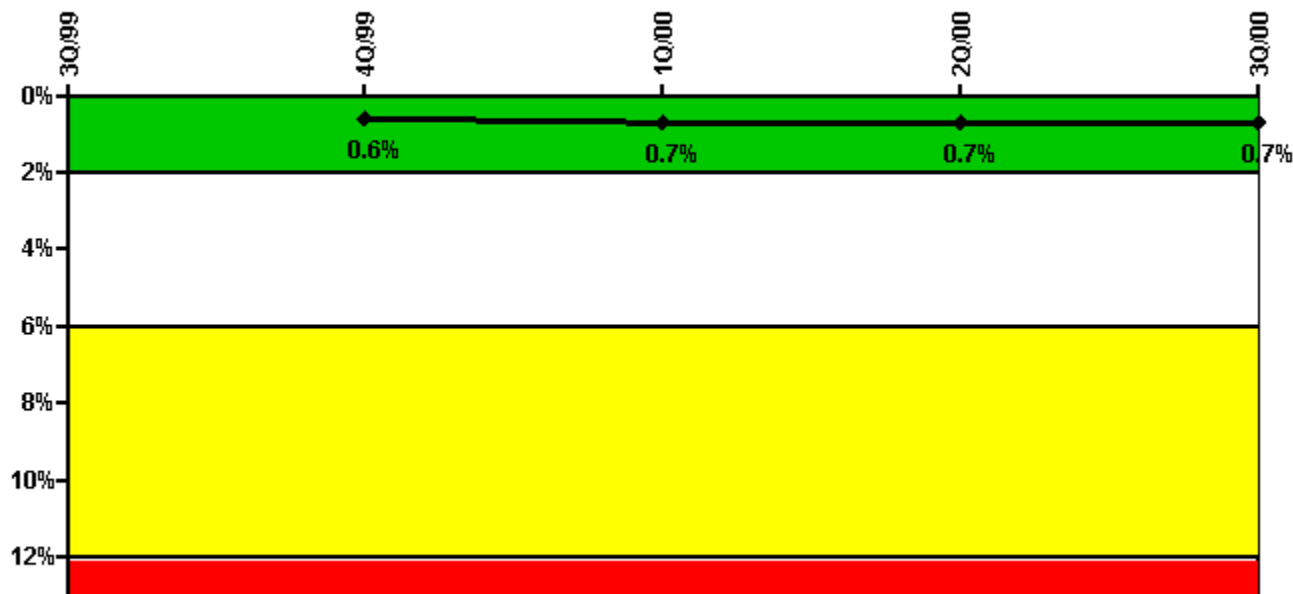
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	0	0	3.60	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	1478.50	1902.00	1099.50	0	0
Train 2					
Planned unavailable hours	0	3.50	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1478.50	1902.00	1099.50	0	0
Train 3					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	9.50	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1478.50	1902.00	1099.50	0	0
Indicator value		0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



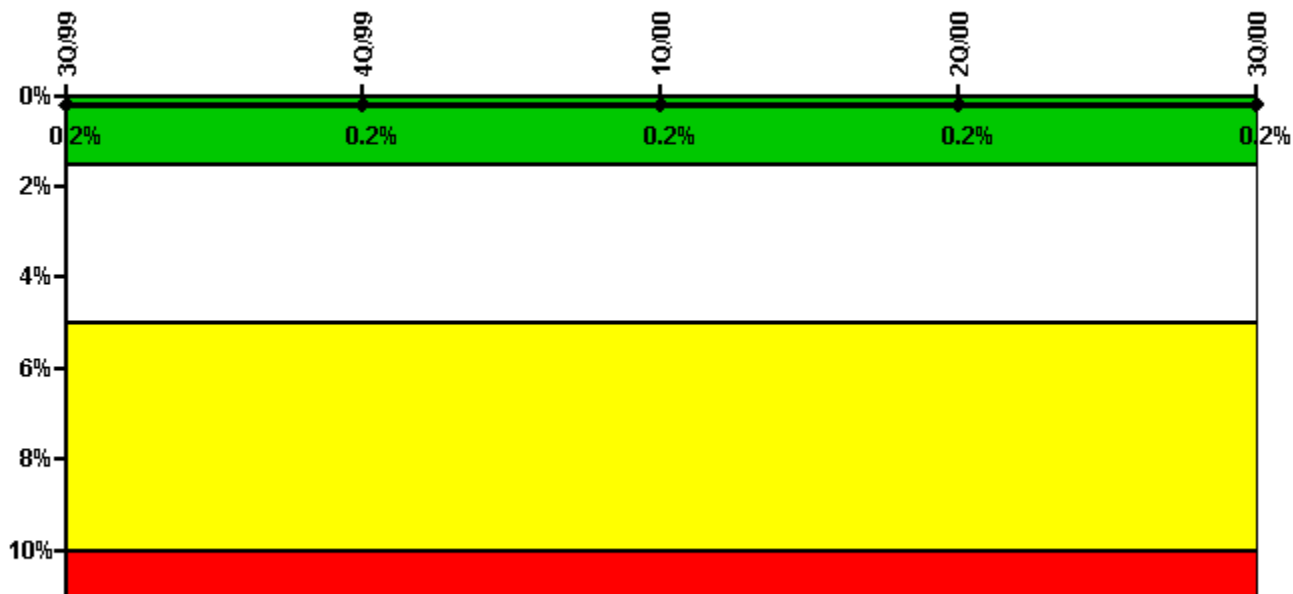
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	0	1.00	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	1478.50	1902.00	1099.50	0	0
Train 2					
Planned unavailable hours	11.00	2.50	13.70	0	0
Unplanned unavailable hours	0	0	0.30	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1478.50	1902.00	1099.50	0	0
Train 3					
Planned unavailable hours	6.00	2.00	13.00	0	0
Unplanned unavailable hours	26.50	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1478.50	1902.00	1099.50	0	0
Indicator value		0.6%	0.7%	0.7%	0.7%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

Notes

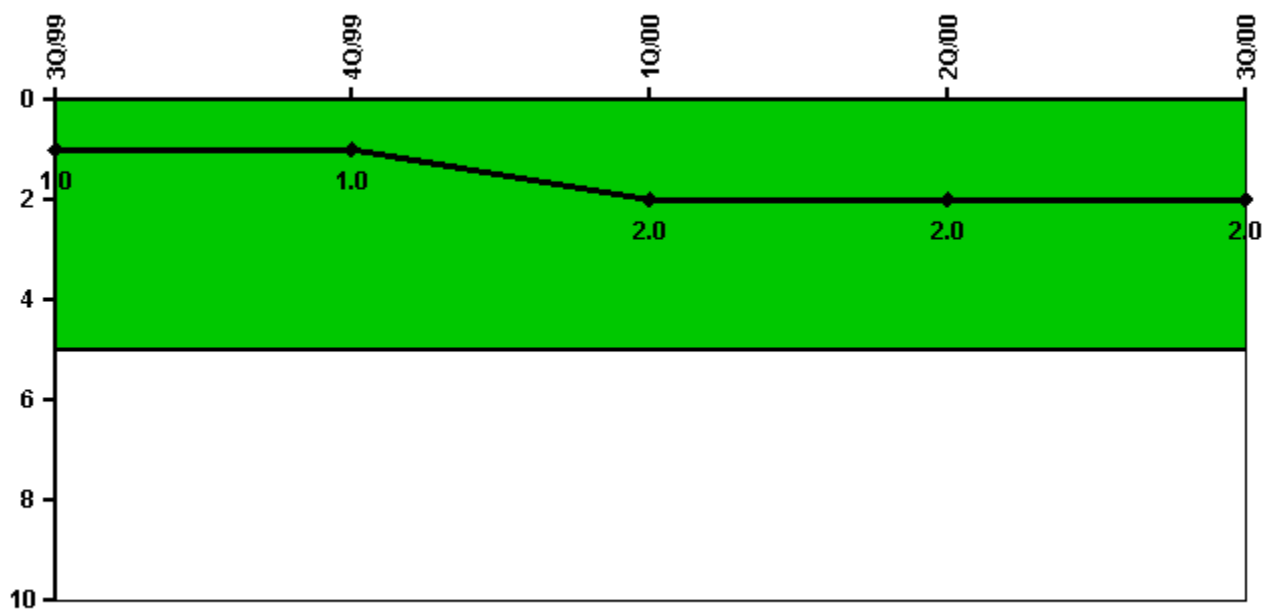
Safety System Unavailability, Residual Heat Removal System	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	1.00	0.40	0.50	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	0	1163.00
Train 2					
Planned unavailable hours	6.00	0.10	0.50	0	0
Unplanned unavailable hours	10.50	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	1163.00
Train 3					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	0	1163.00
Train 4					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0

Required hours	2208.00	2209.00	2184.00	0	1163.00
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments:

2Q/00: Unit off-line for 2nd quarter.

Safety System Functional Failures (PWR)



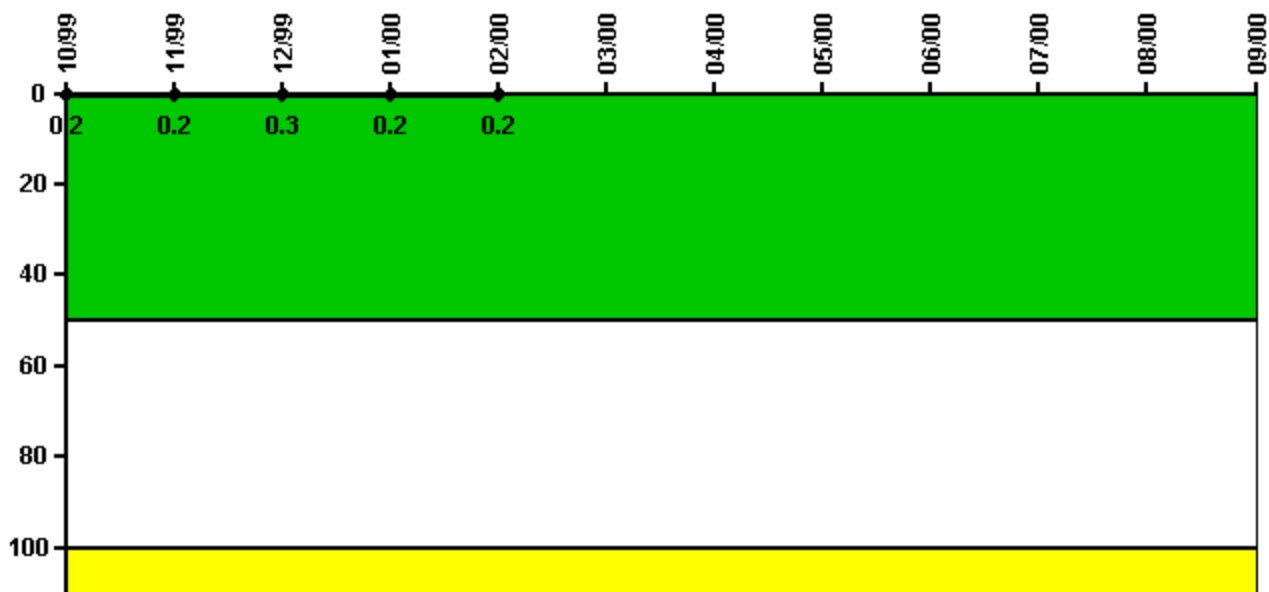
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



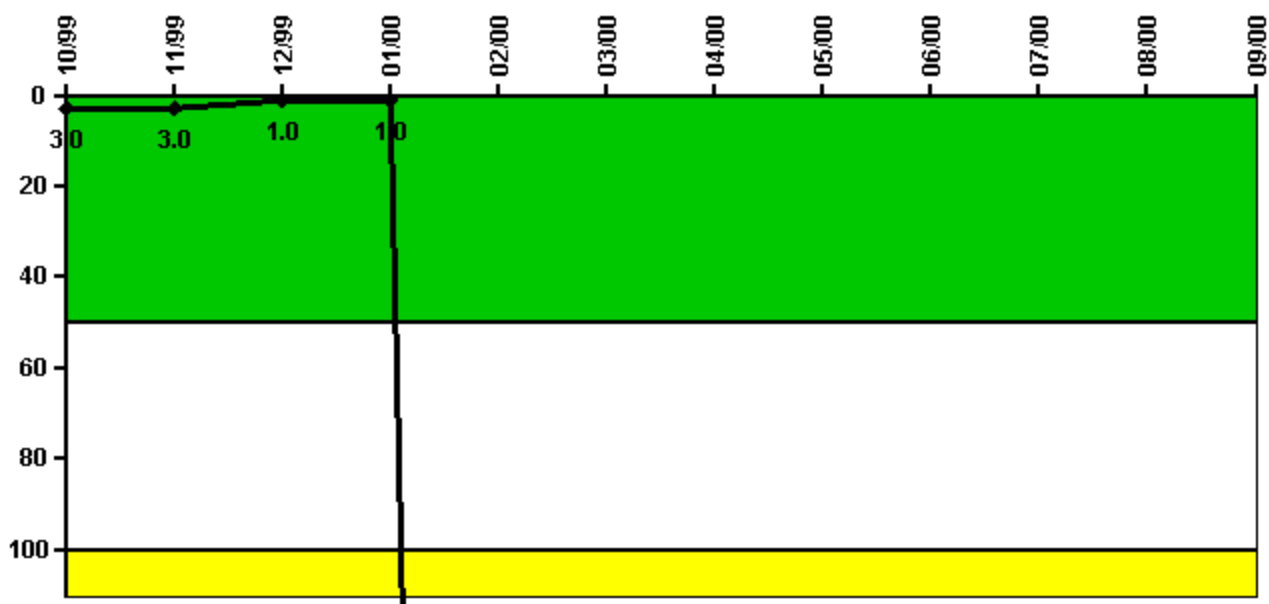
Thresholds: White > 50.0 Yellow > 100.0

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	0.002190	0.002300	0.002600	0.002390	0.002280	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.3	0.2	0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

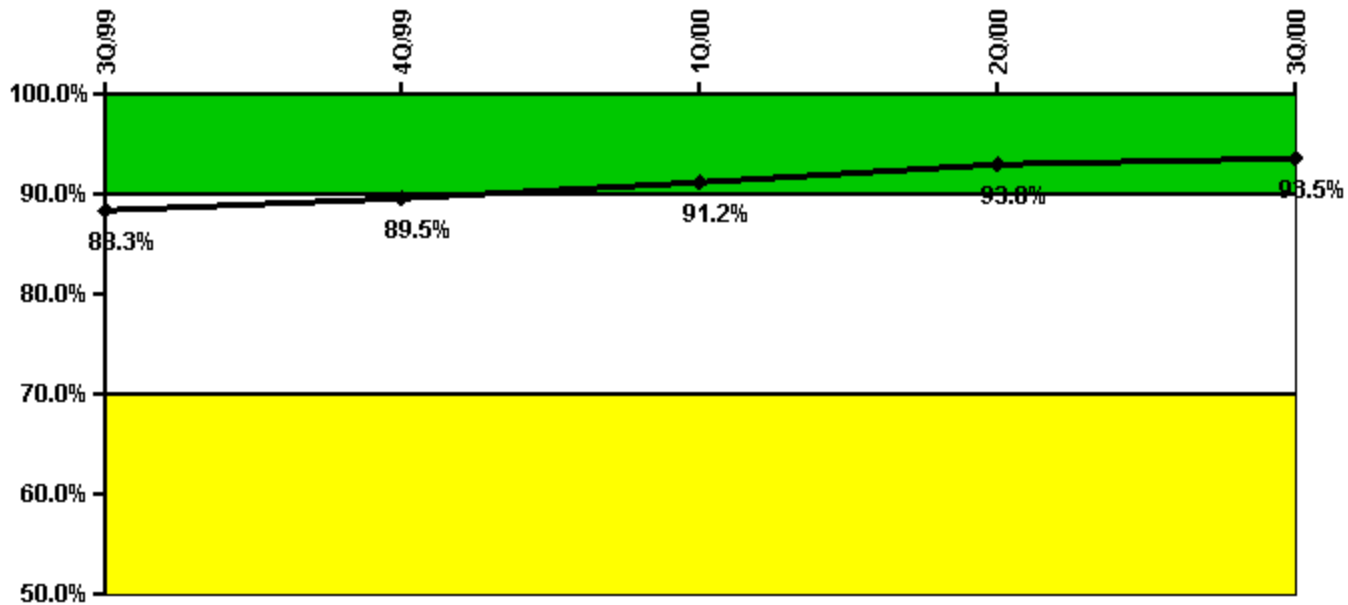
Notes

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	0.300	0.300	0.100	0.100	109.000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.0	3.0	1.0	1.0	1090.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Licensee Comments:

6/00: Unit off-line for 2nd quarter.

Drill/Exercise Performance



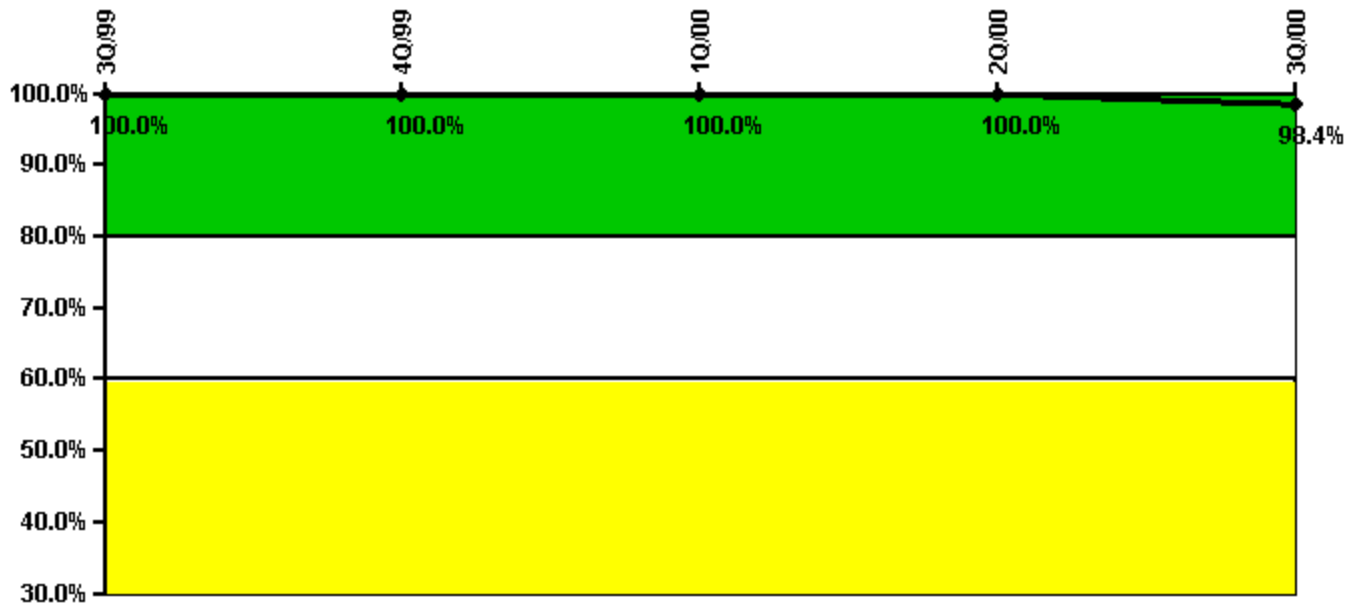
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful opportunities	22.0	28.0	29.0	30.0	9.0
Total opportunities	27.0	28.0	30.0	30.0	9.0
Indicator value	88.3%	89.5%	91.2%	93.0%	93.5%

Licensee Comments: none

ERO Drill Participation



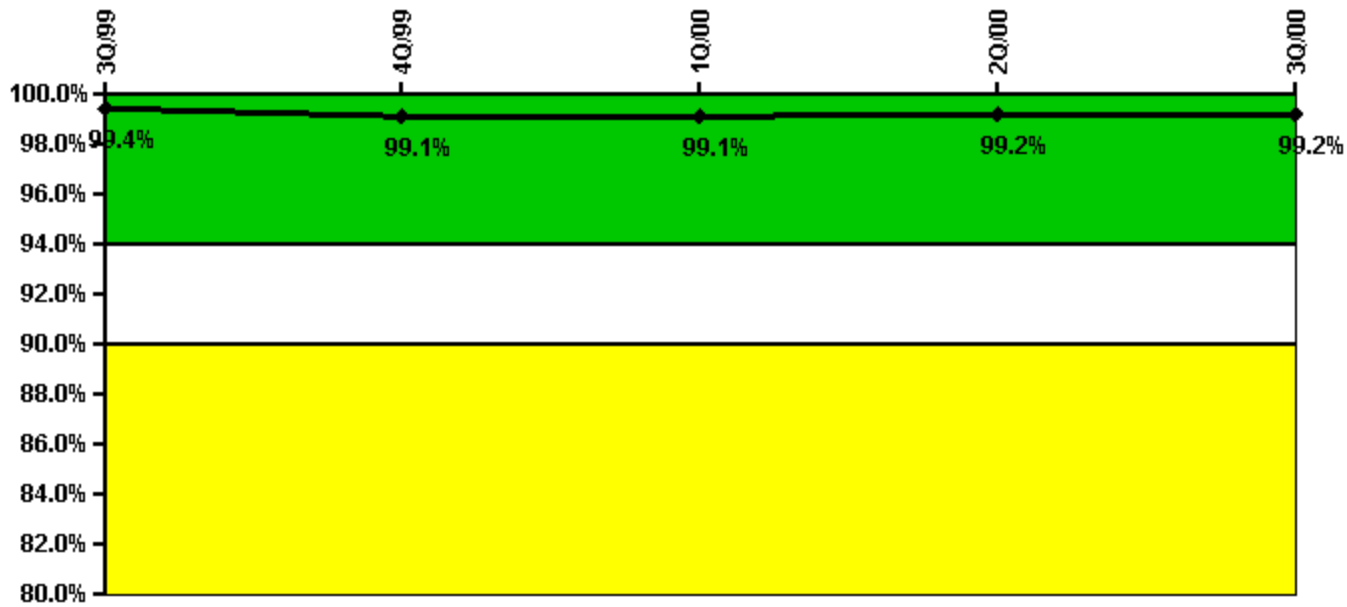
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Participating Key personnel	59.0	63.0	62.0	67.0	63.0
Total Key personnel	59.0	63.0	62.0	67.0	64.0
Indicator value	100.0%	100.0%	100.0%	100.0%	98.4%

Licensee Comments: none

Alert & Notification System



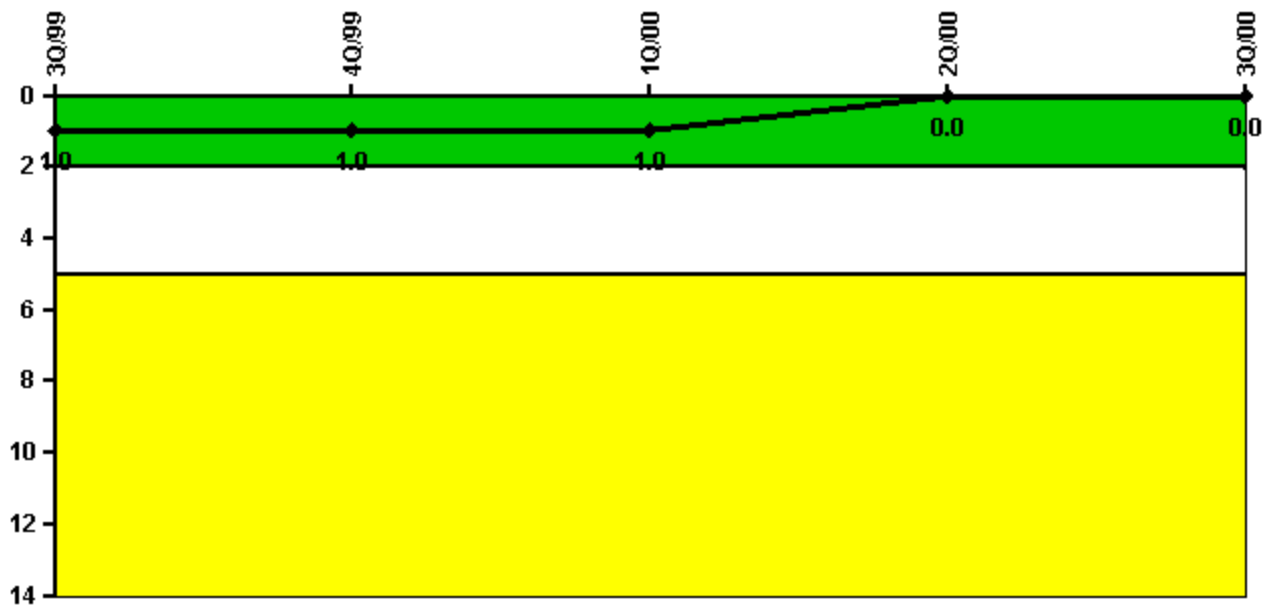
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful siren-tests	1067	1217	920	1225	914
Total sirens-tests	1078	1232	924	1232	924
Indicator value	99.4%	99.1%	99.1%	99.2%	99.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness

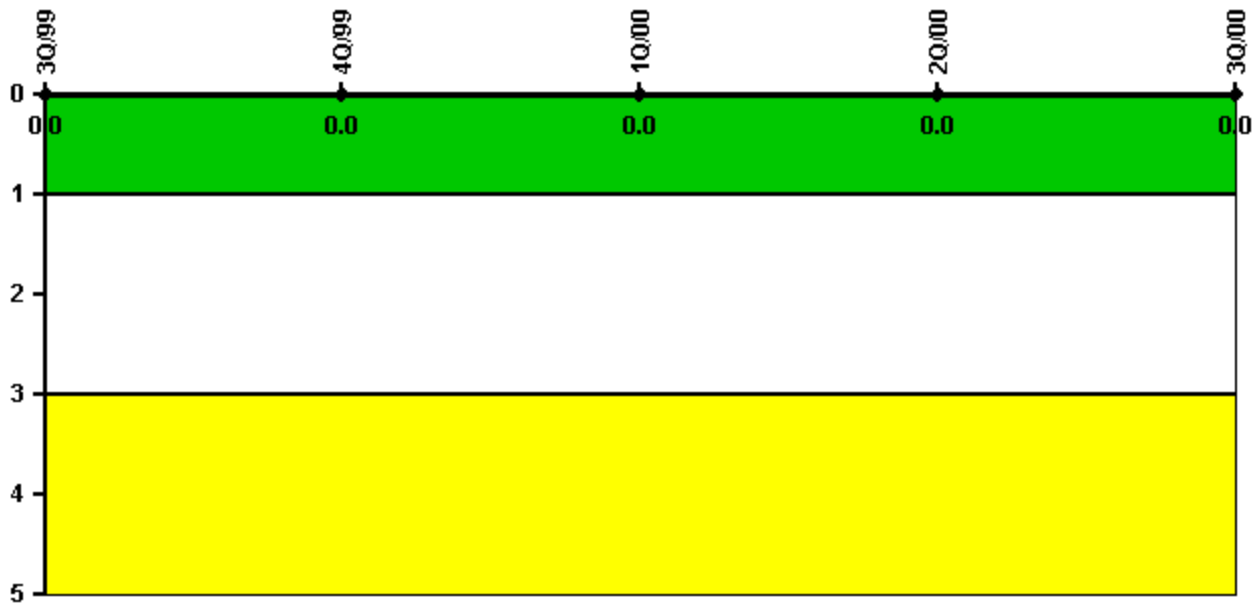


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

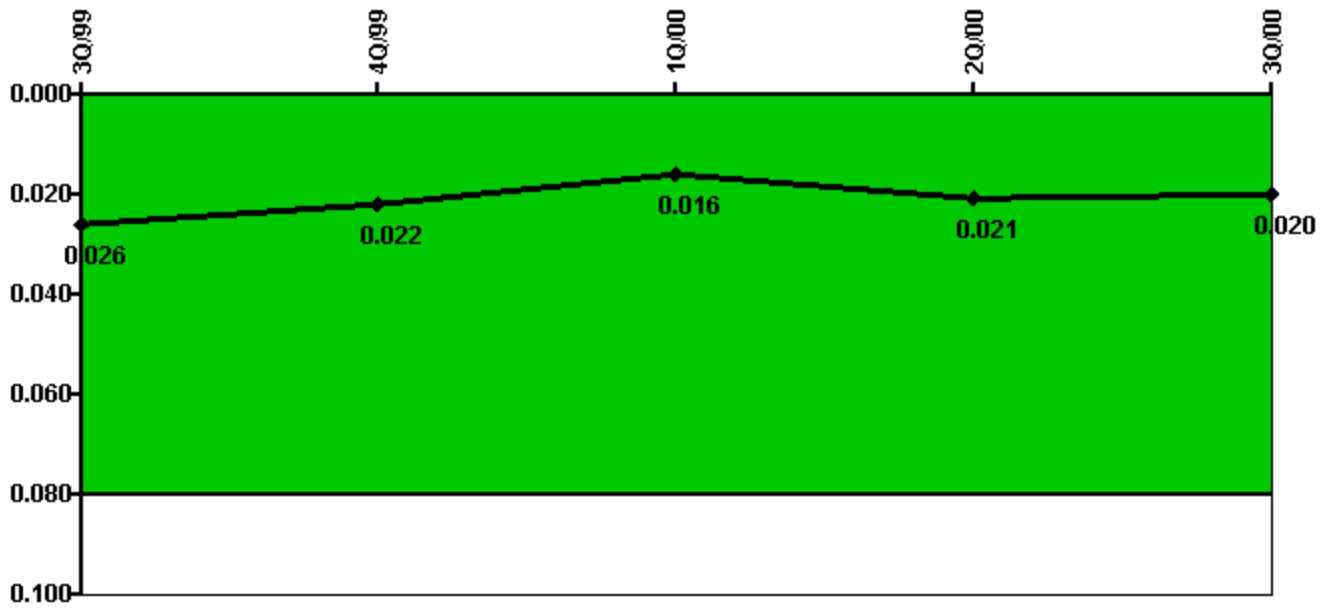
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



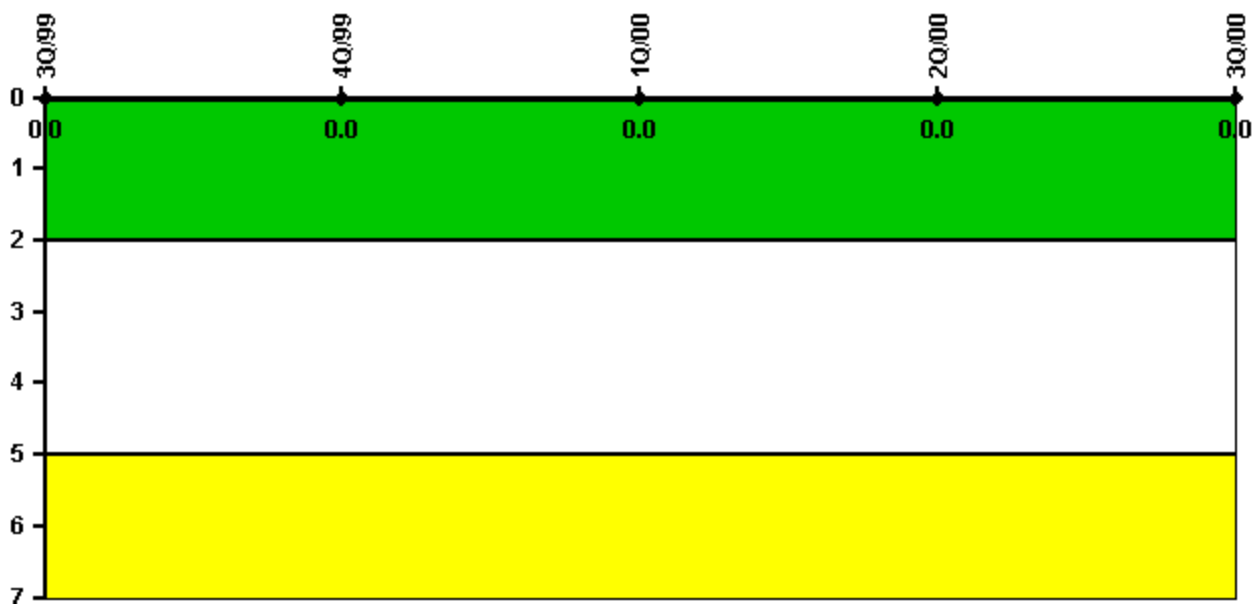
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
IDS compensatory hours	93.37	10.25	0	90.82	41.35
CCTV compensatory hours	0	56.5	135.7	0.6	26.7
IDS normalization factor	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1
Index Value	0.026	0.022	0.016	0.021	0.020

Licensee Comments: none

Personnel Screening Program



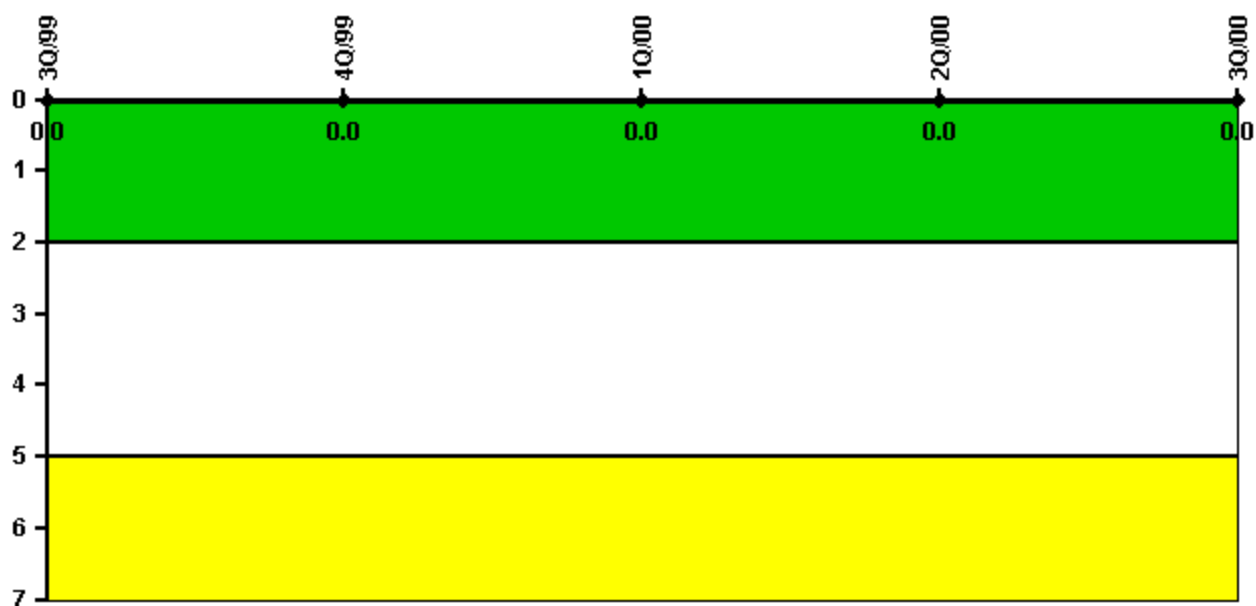
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none



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

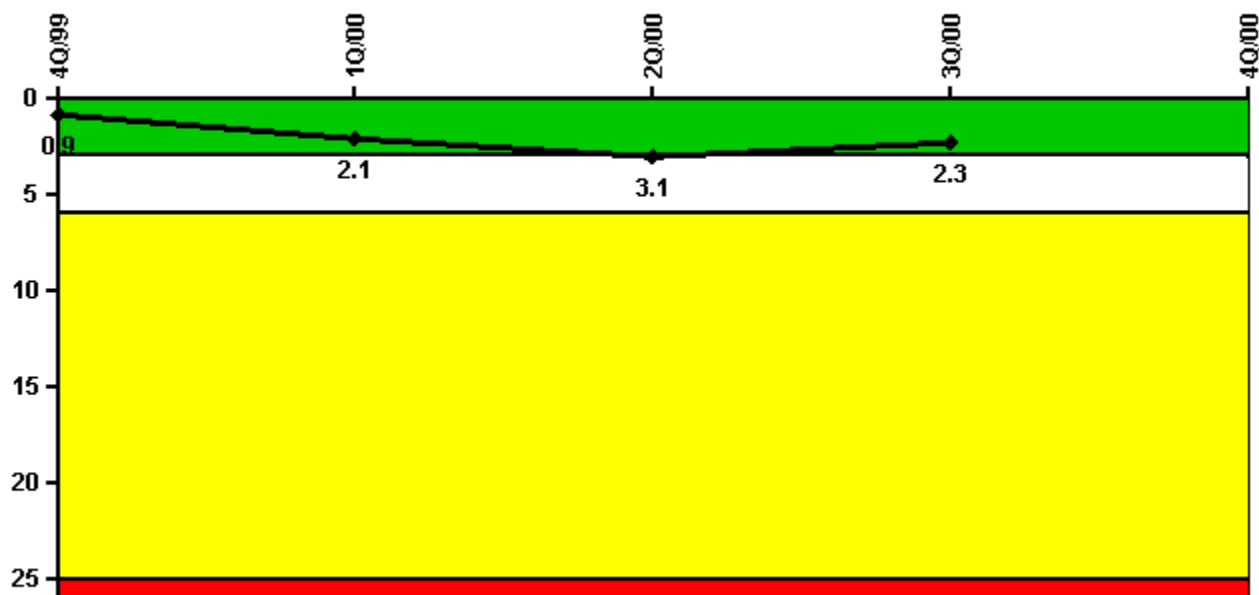
Last Modified: March 29, 2002

Indian Point 2

4Q/2000 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



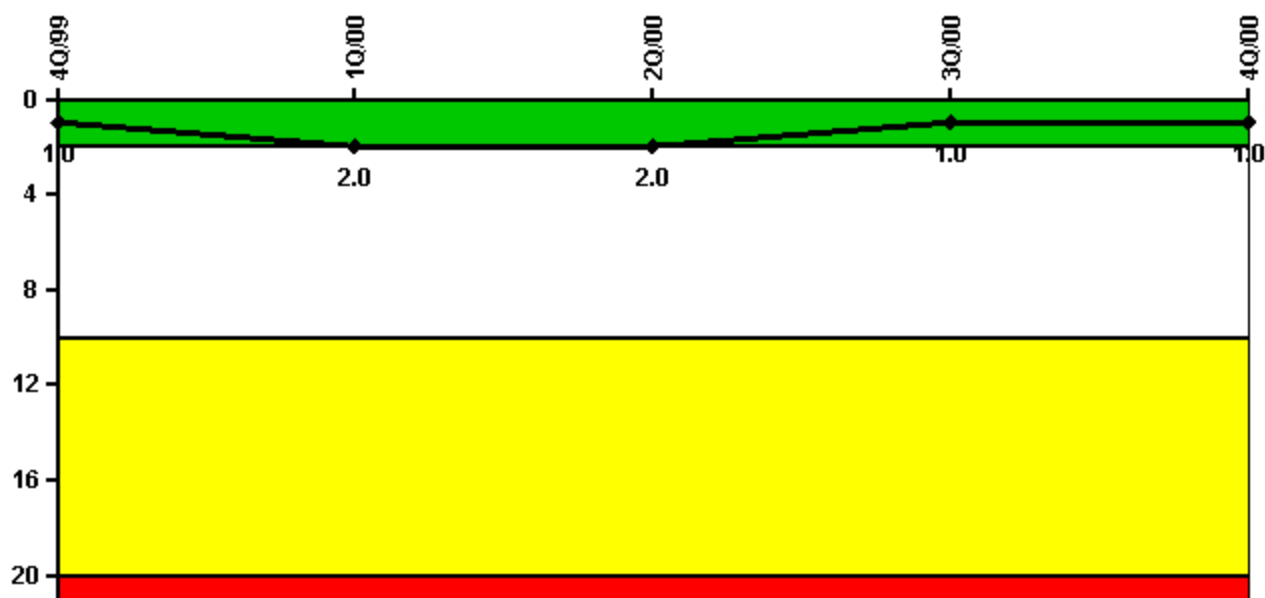
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned scrams	0	1.0	0	0	0
Critical hours	1902.0	1099.5	0	0	44.2
Indicator value	0.9	2.1	3.1	2.3	N/A

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



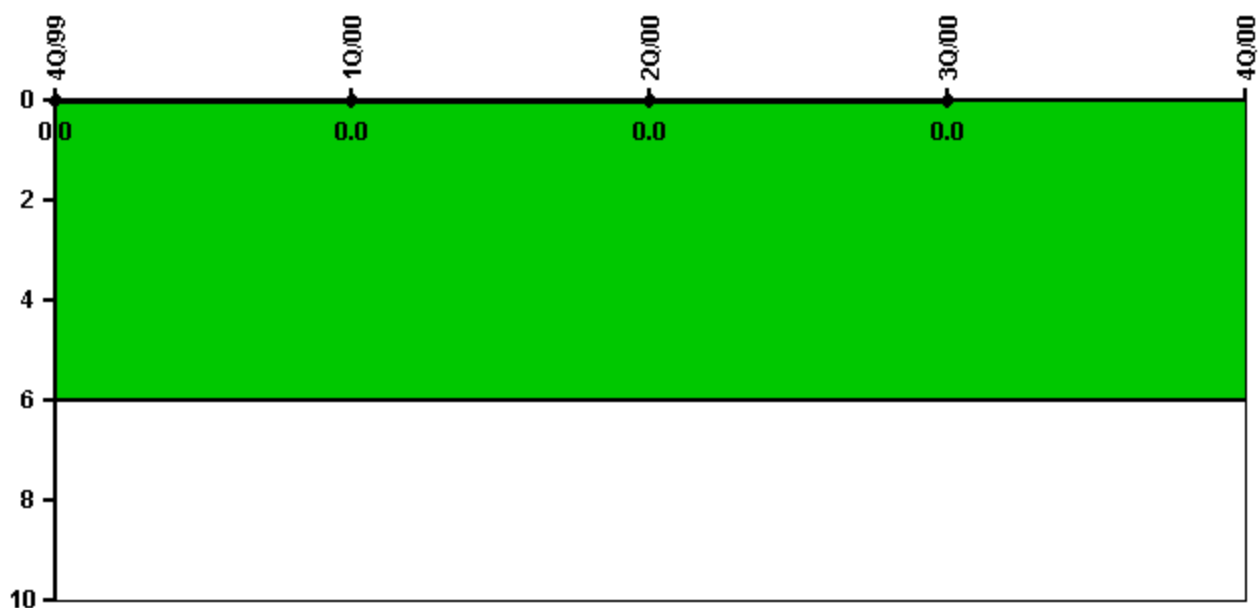
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



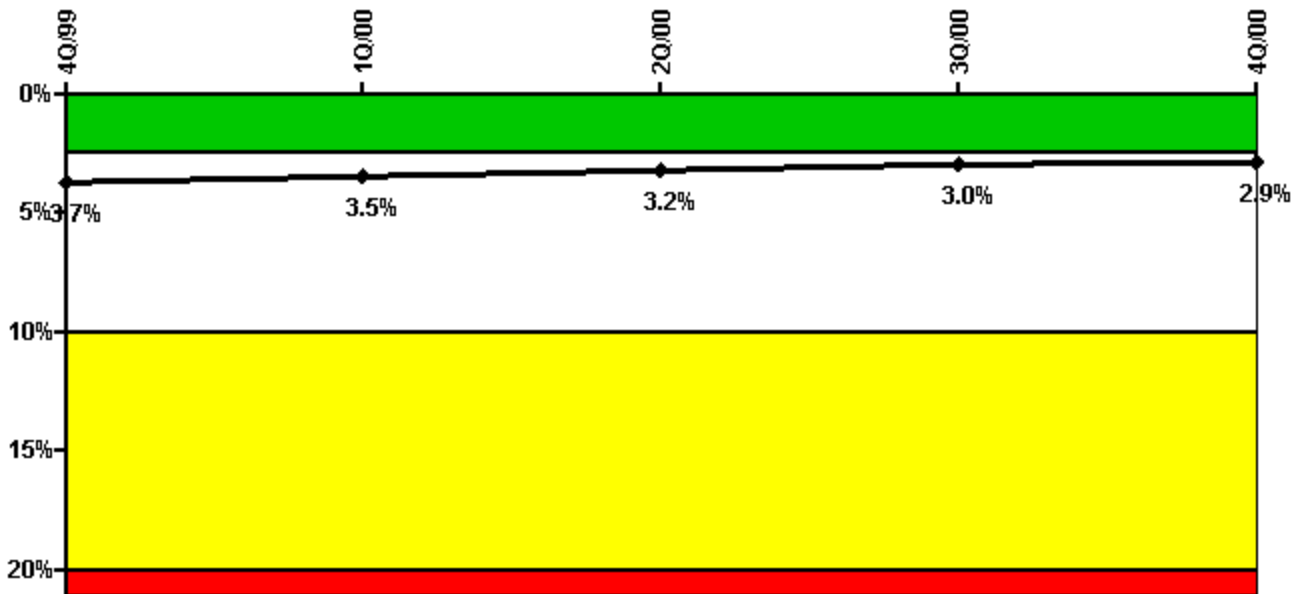
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned power changes	0	0	0	0	0
Critical hours	1902.0	1099.5	0	0	44.2
Indicator value	0	0	0	0	N/A

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

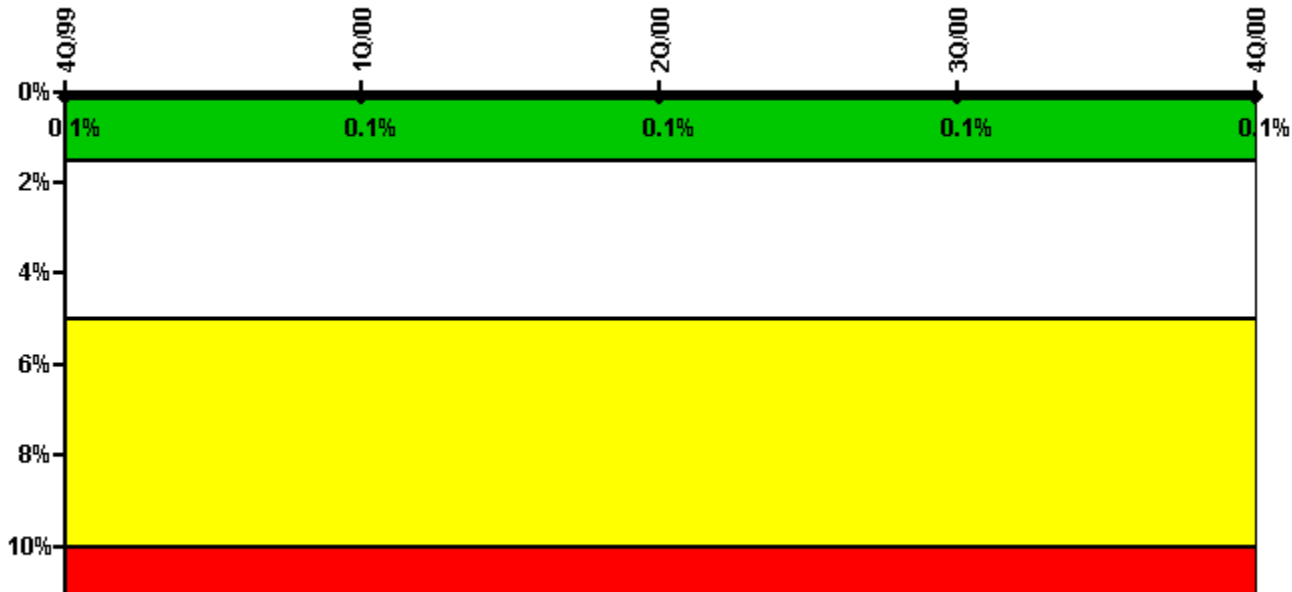
Safety System Unavailability, Emergency AC Power, >2EDG	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	52.85	2.12	0	0	0
Unplanned unavailable hours	38.47	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2184.00	2184.00	2208.00	2208.00
Train 2					
Planned unavailable hours	7.84	51.14	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2184.00	2184.00	2208.00	2208.00
Train 3					
Planned unavailable hours	34.25	3.81	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2184.00	2184.00	2208.00	2208.00
Indicator value	3.7%	3.5%	3.2%	3.0%	2.9%

Licensee Comments:

3Q/99: Fault Exposure Hours Reset per NEI, "Supplemental Guidance for Fault Exposure Hour Reset", December 6, 2001

3Q/99: Train three was revised to reflect the removal of fault exposure hours. NRC supplemental inspection completed in Inspection Report 2001-002. All corrective actions have been completed.

Safety System Unavailability, High Pressure Injection System (HPSI)



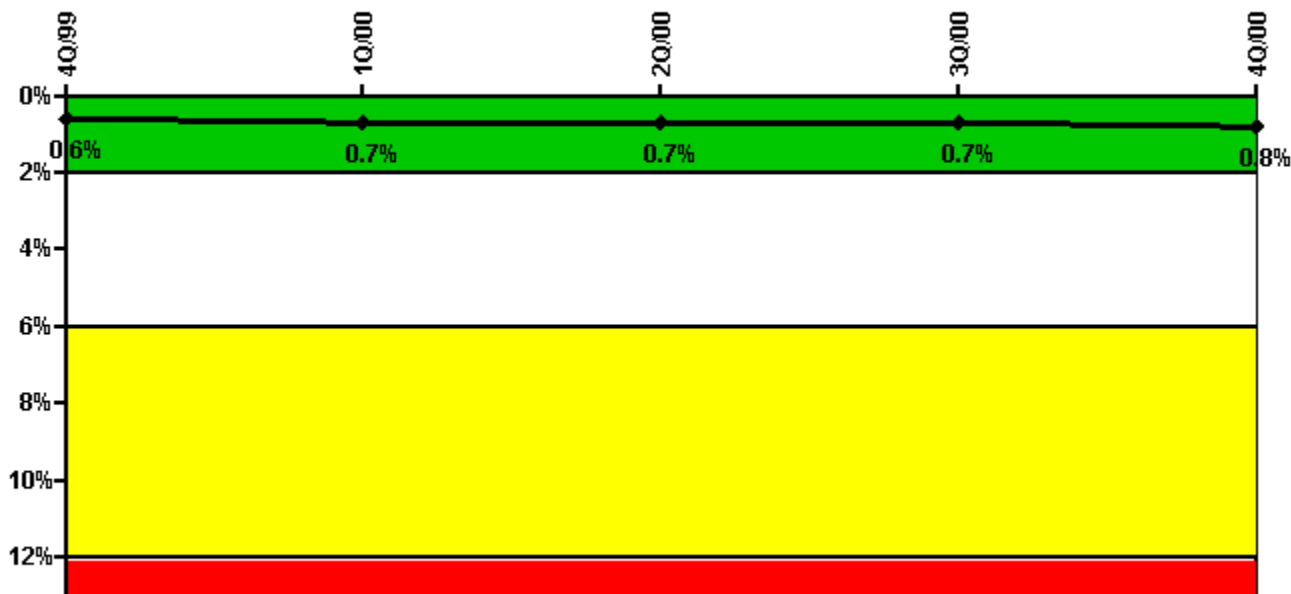
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	0	3.60	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	1902.00	1099.50	0	0	44.17
Train 2					
Planned unavailable hours	3.50	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1902.00	1099.50	0	0	44.17
Train 3					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1902.00	1099.50	0	0	44.17
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



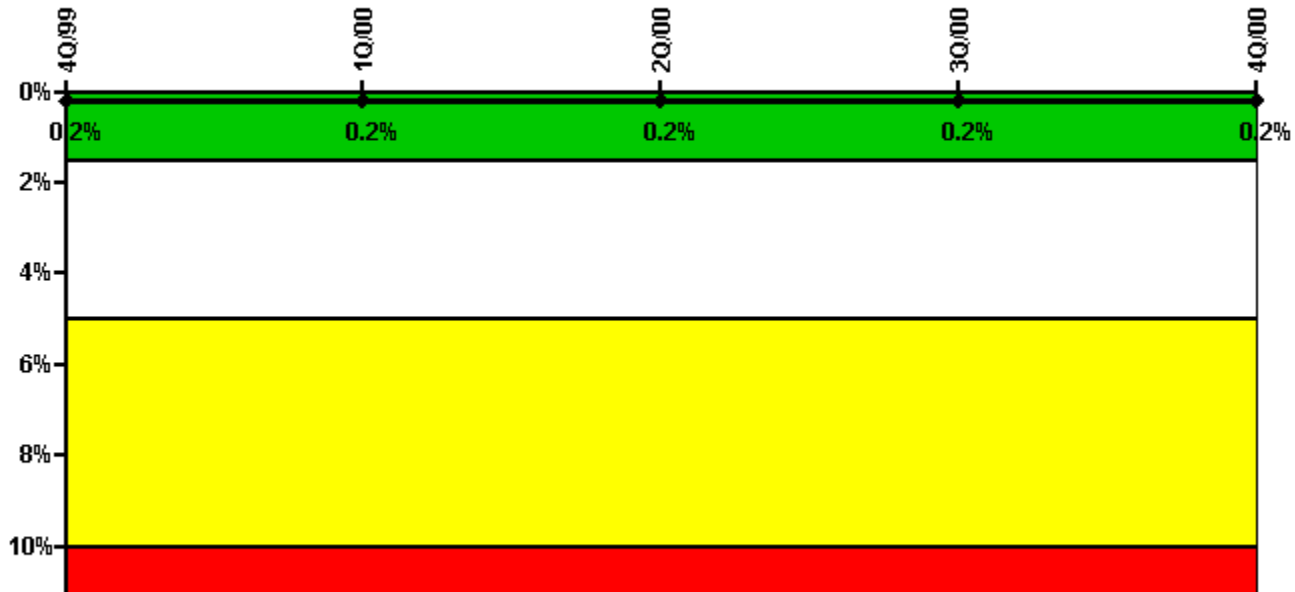
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	1.00	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1902.00	1099.50	0	0	44.17
Train 2					
Planned unavailable hours	2.50	13.70	0	0	0
Unplanned unavailable hours	0	0.30	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1902.00	1099.50	0	0	44.17
Train 3					
Planned unavailable hours	2.00	13.00	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	1902.00	1099.50	0	0	44.17
Indicator value	0.6%	0.7%	0.7%	0.7%	0.8%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

Notes

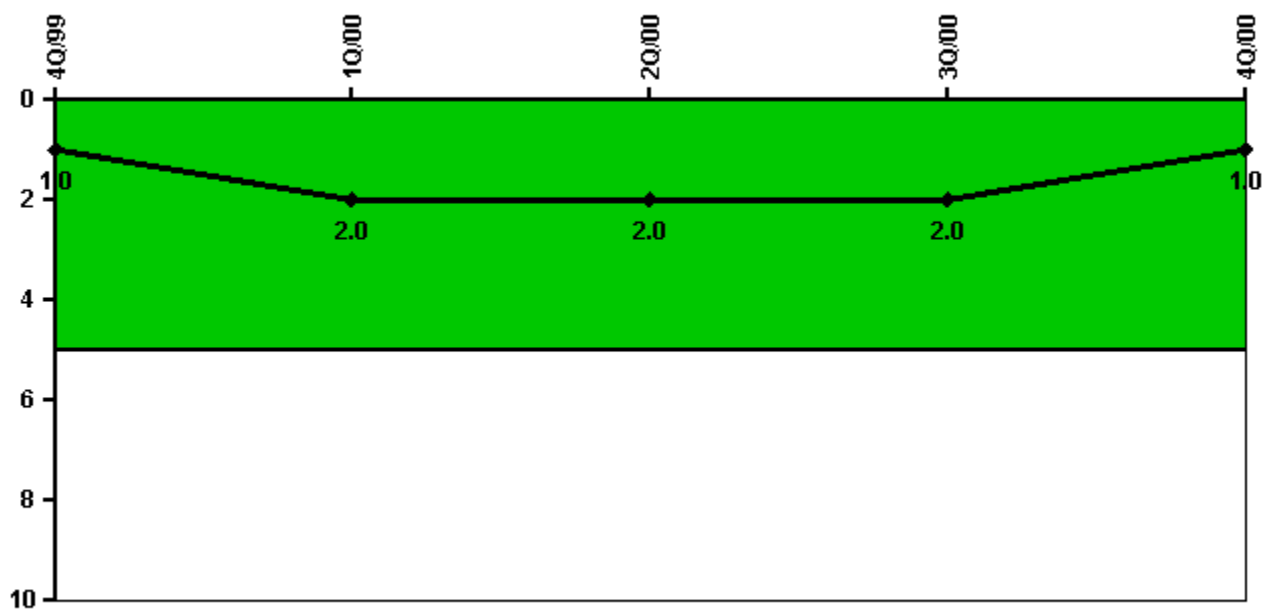
Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	0.40	0.50	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	0	1163.00	957.10
Train 2					
Planned unavailable hours	0.10	0.50	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	0	1163.00	957.10
Train 3					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	0	1163.00	957.10
Train 4					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0

Required hours	2209.00	2184.00	0	1163.00	957.10
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments:

2Q/00: Unit off-line for 2nd quarter.

Safety System Functional Failures (PWR)



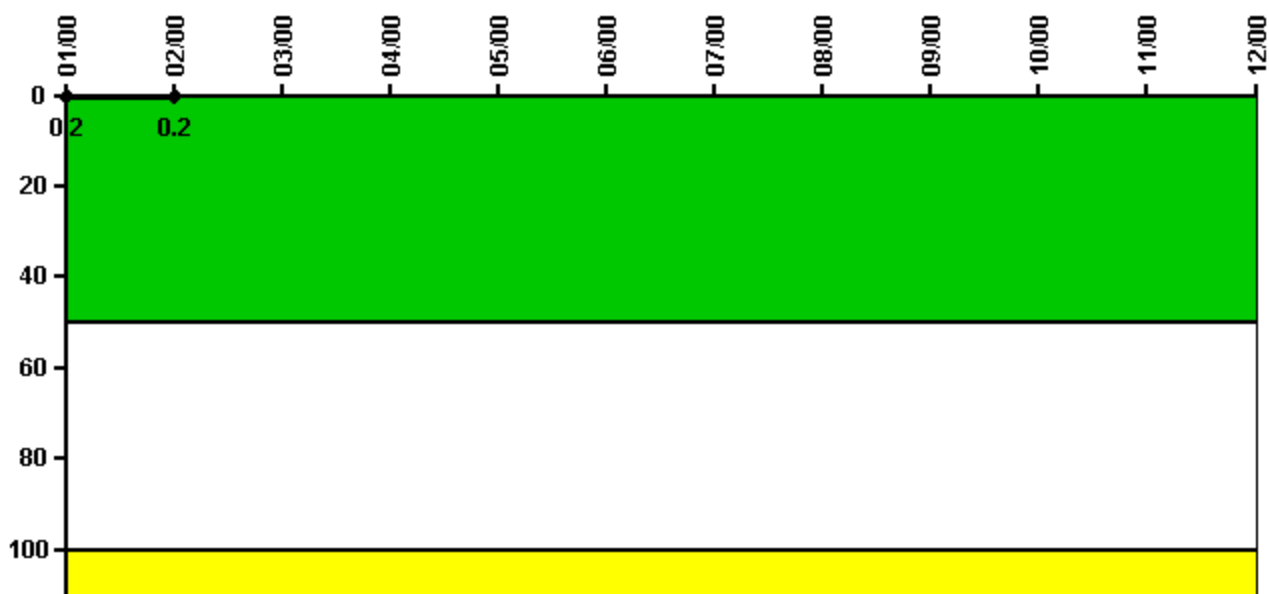
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



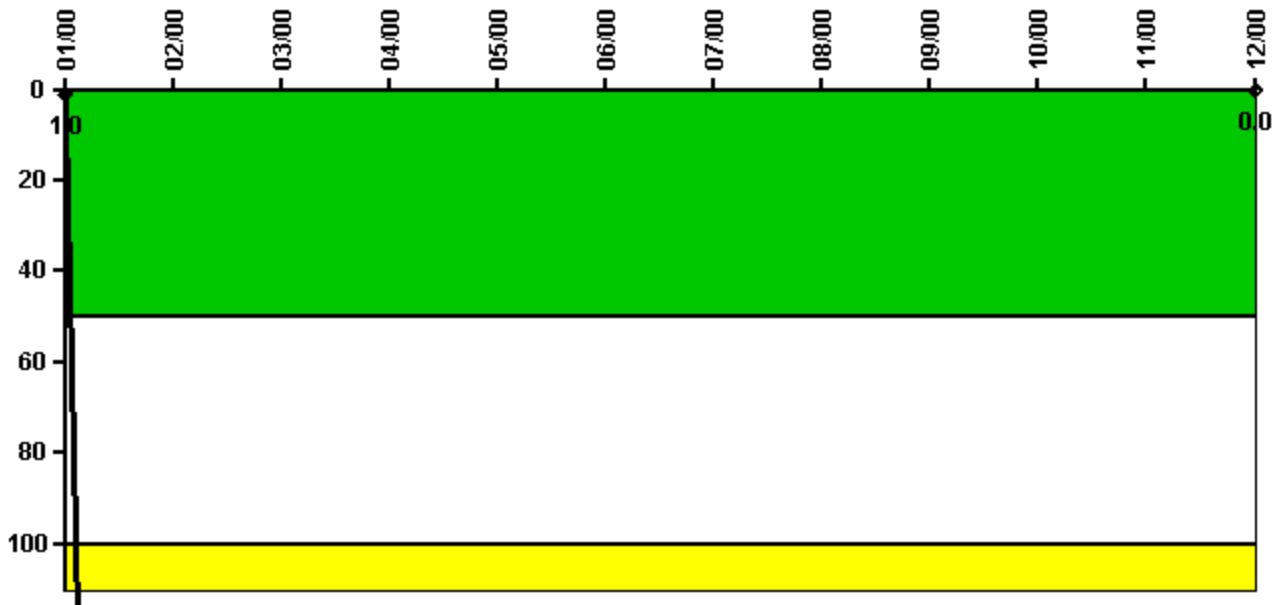
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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	0.002390	0.002280	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Licensee Comments: none

Reactor Coolant System Leakage



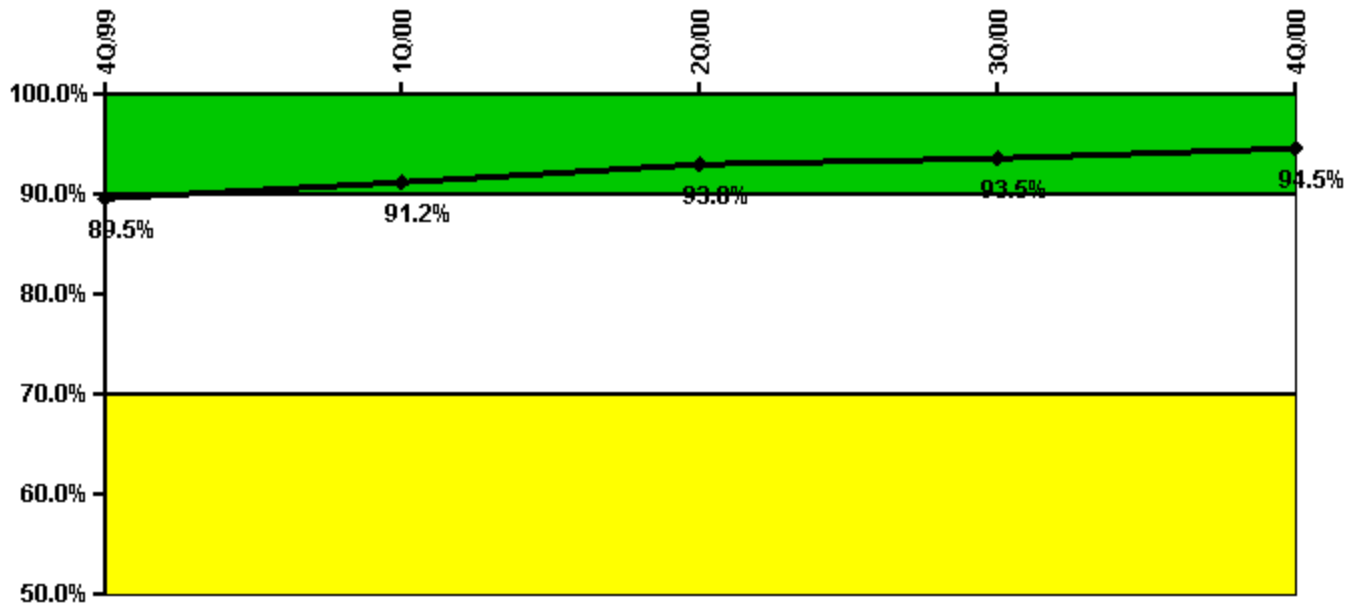
Thresholds: White > 50.0 Yellow > 100.0

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	0.100	109.000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	1.0	1090.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0

Licensee Comments: none

Drill/Exercise Performance



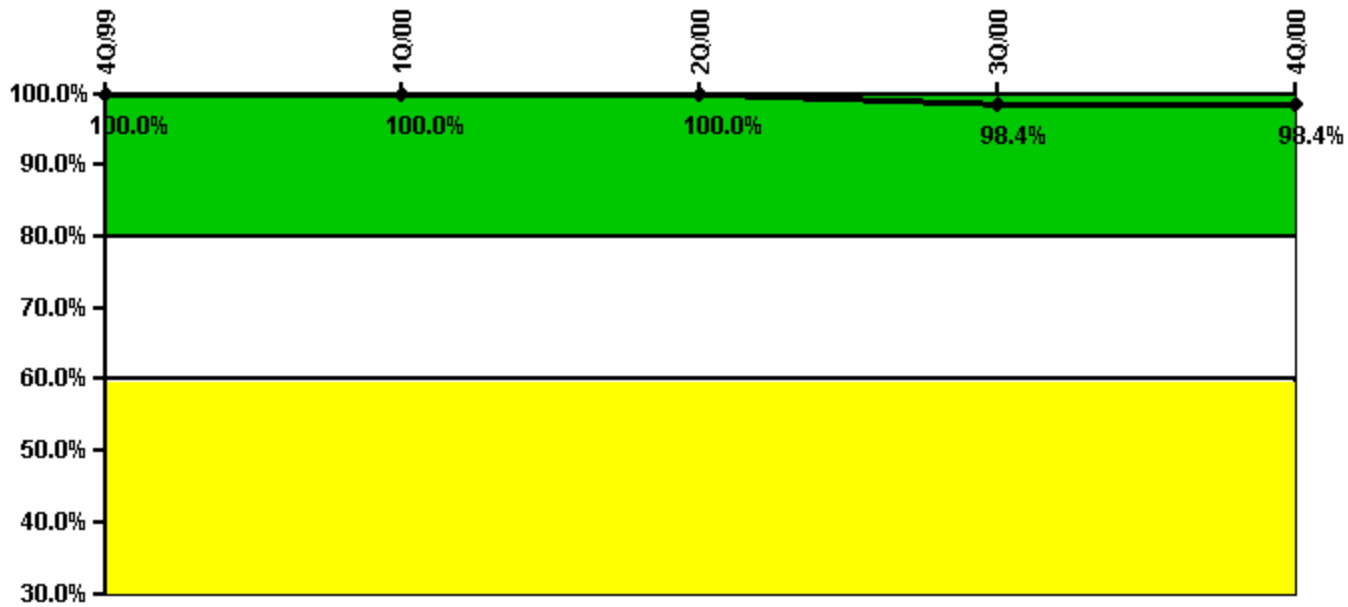
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Successful opportunities	28.0	29.0	30.0	9.0	13.0
Total opportunities	28.0	30.0	30.0	9.0	14.0
Indicator value	89.5%	91.2%	93.0%	93.5%	94.5%

Licensee Comments: none

ERO Drill Participation



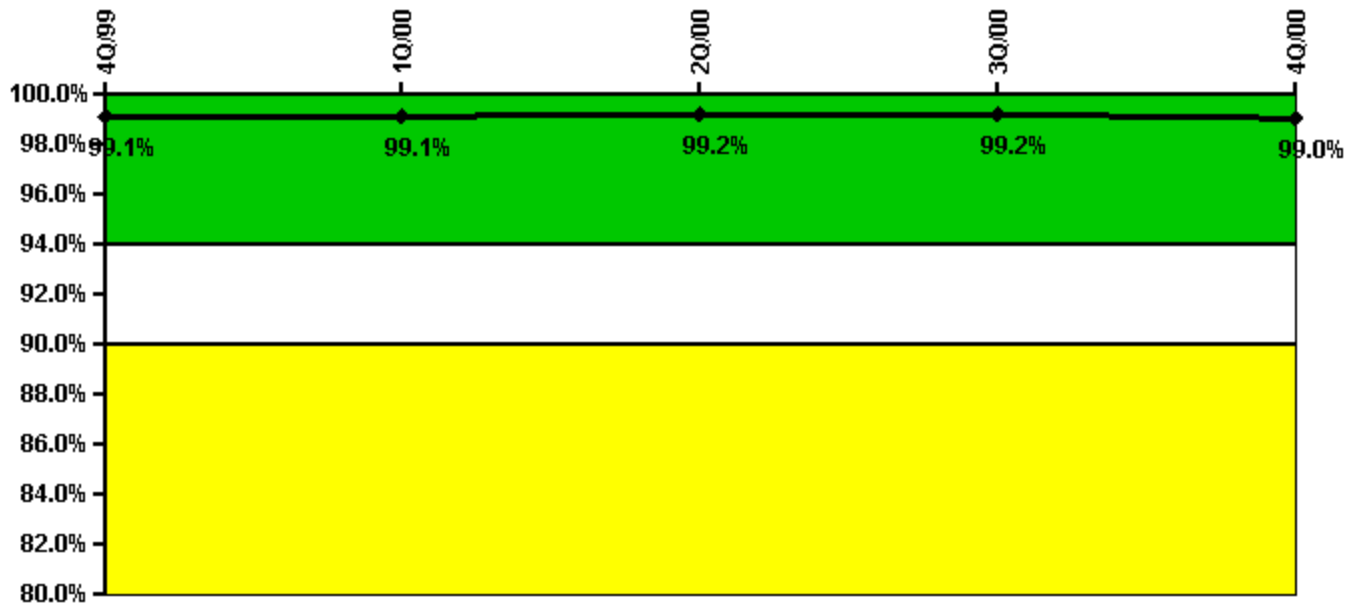
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Participating Key personnel	63.0	62.0	67.0	63.0	62.0
Total Key personnel	63.0	62.0	67.0	64.0	63.0
Indicator value	100.0%	100.0%	100.0%	98.4%	98.4%

Licensee Comments: none

Alert & Notification System



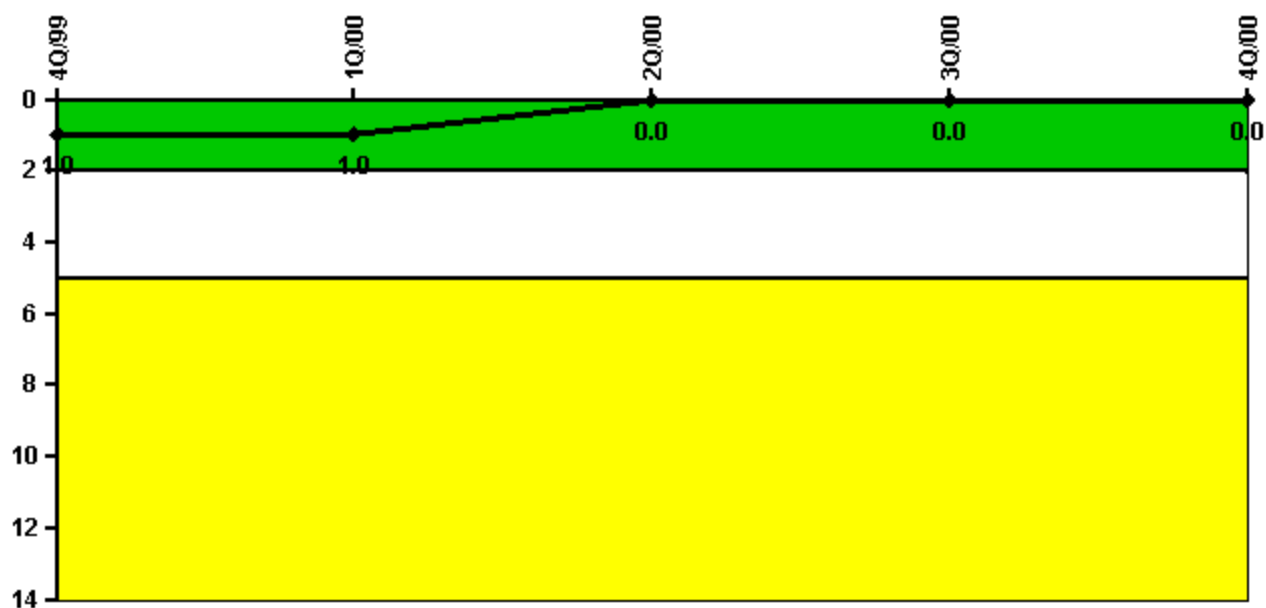
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Successful siren-tests	1217	920	1225	914	906
Total sirens-tests	1232	924	1232	924	924
Indicator value	99.1%	99.1%	99.2%	99.2%	99.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



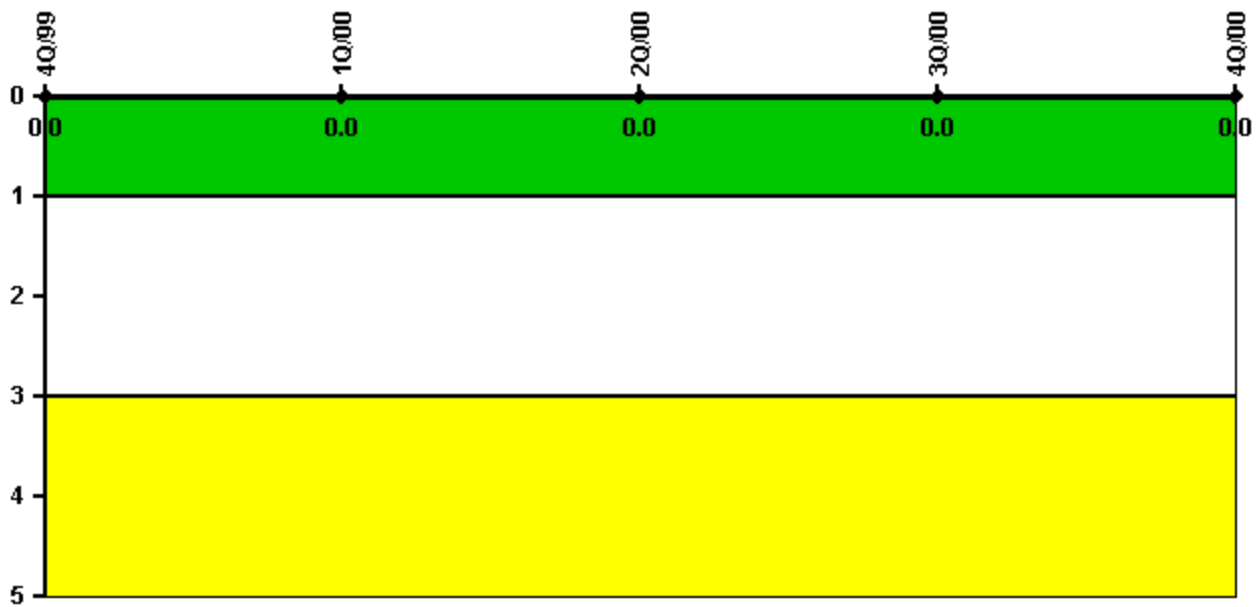
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



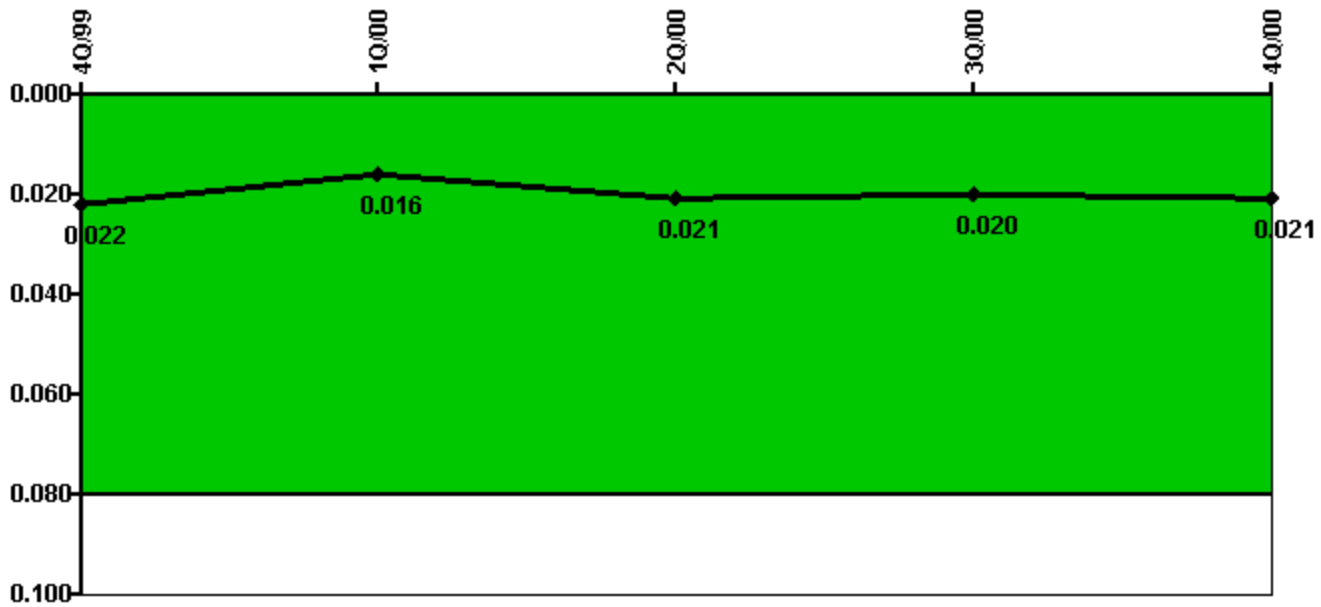
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



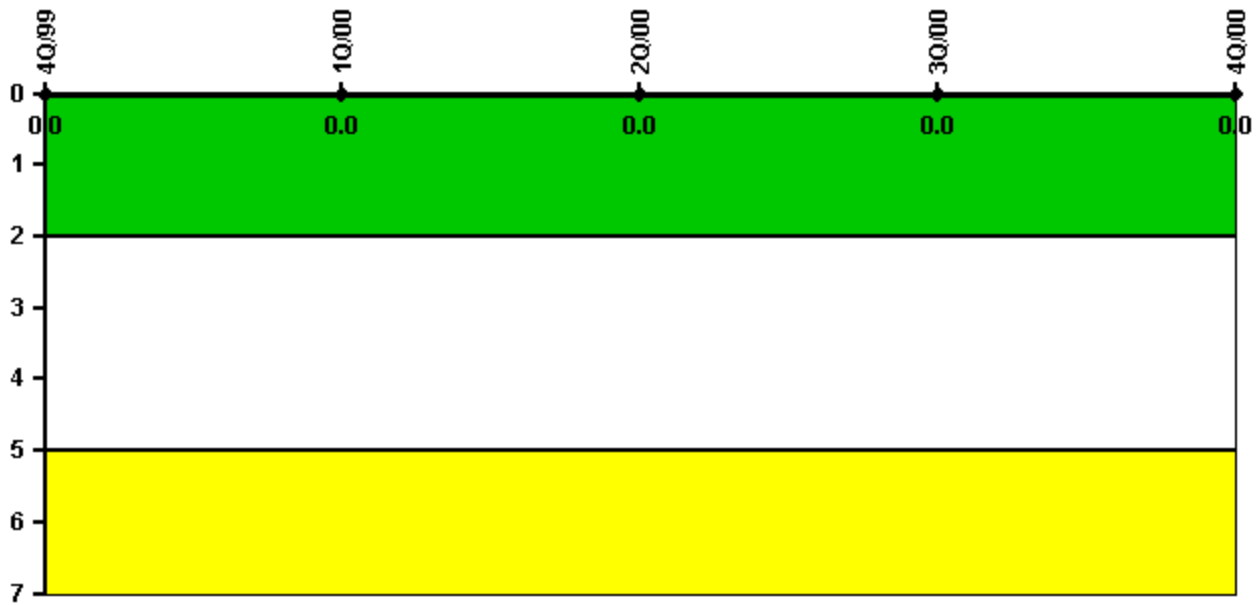
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
IDS compensatory hours	10.25	0	90.82	41.35	75.92
CCTV compensatory hours	56.5	135.7	0.6	26.7	6.3
IDS normalization factor	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1
Index Value	0.022	0.016	0.021	0.020	0.021

Licensee Comments: none

Personnel Screening Program



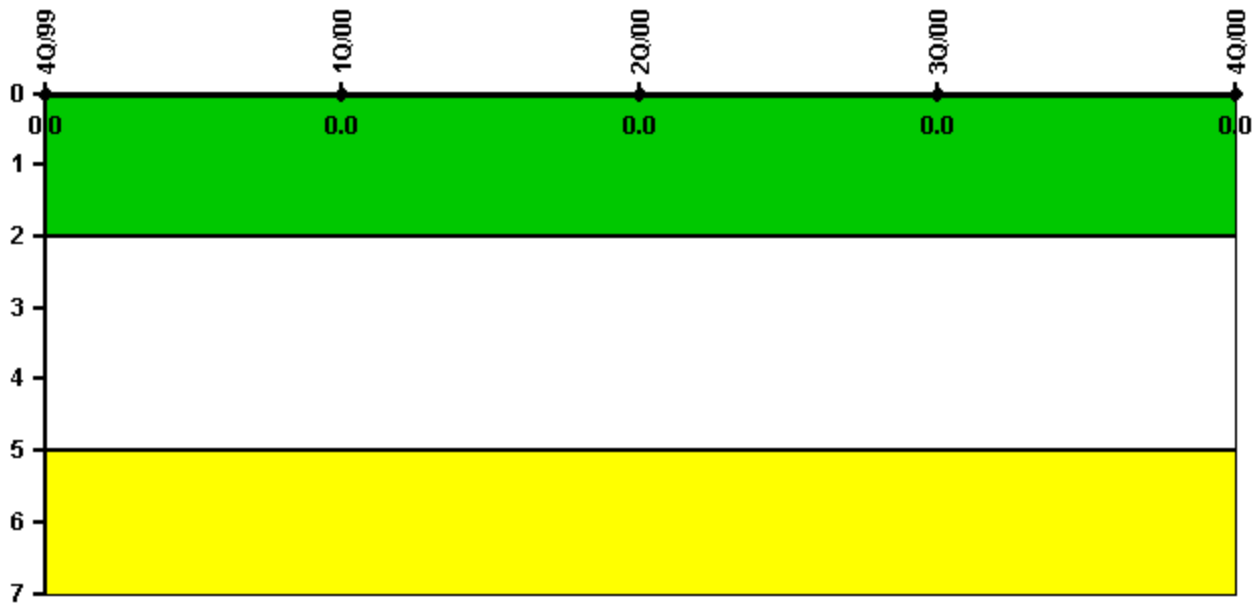
Thresholds: White > 2.0 Yellow > 5.0

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](#)

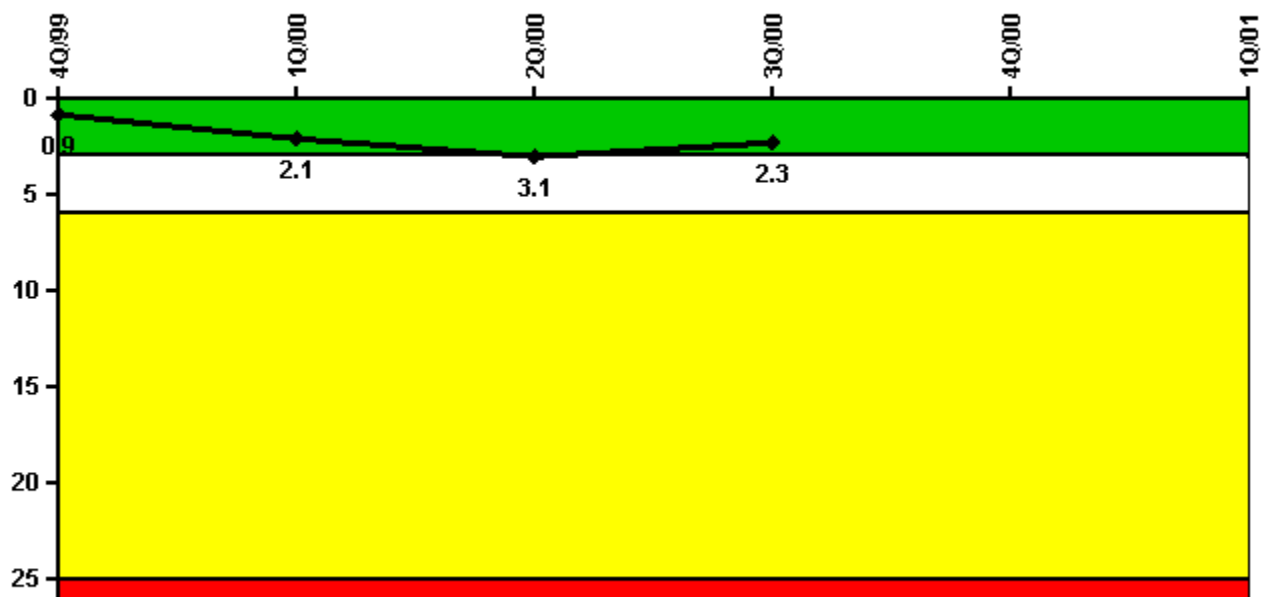
Last Modified: March 28, 2002

Indian Point 2

1Q/2001 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

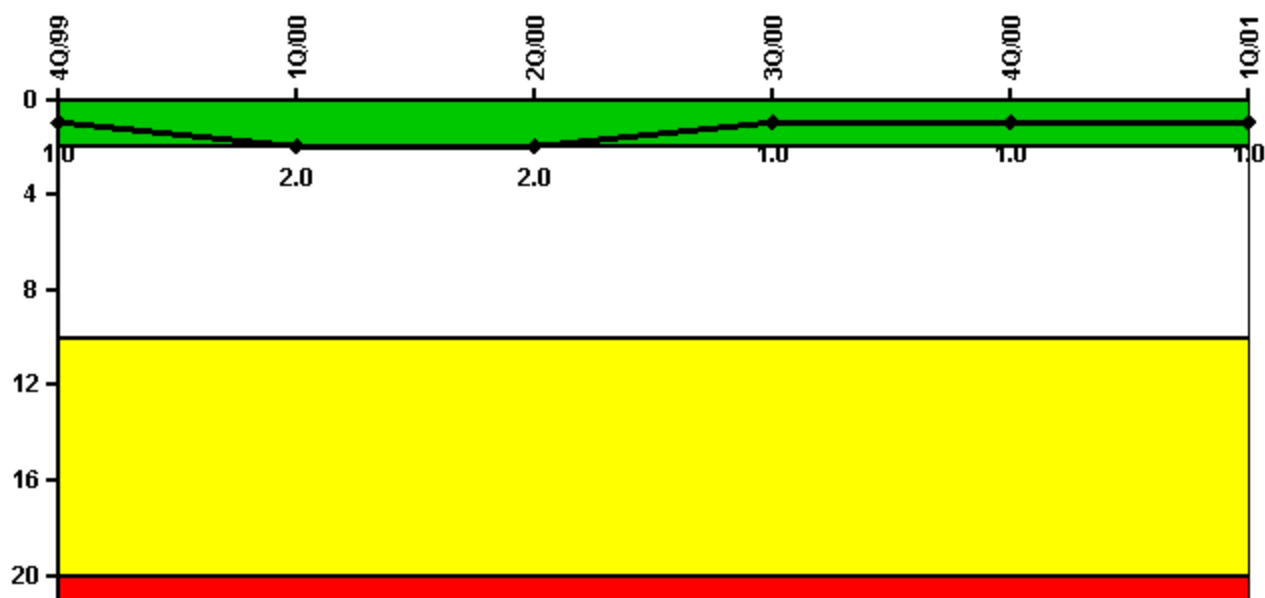
Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned scrams	0	1.0	0	0	0	0
Critical hours	1902.0	1099.5	0	0	44.2	2160.0
Indicator value	0.9	2.1	3.1	2.3	N/A	N/A

Licensee Comments:

1Q/01: If there are fewer than 2,400 critical hours in the previous four quarters the indicator value is computed as N/A.

Scrams with Loss of Normal Heat Removal



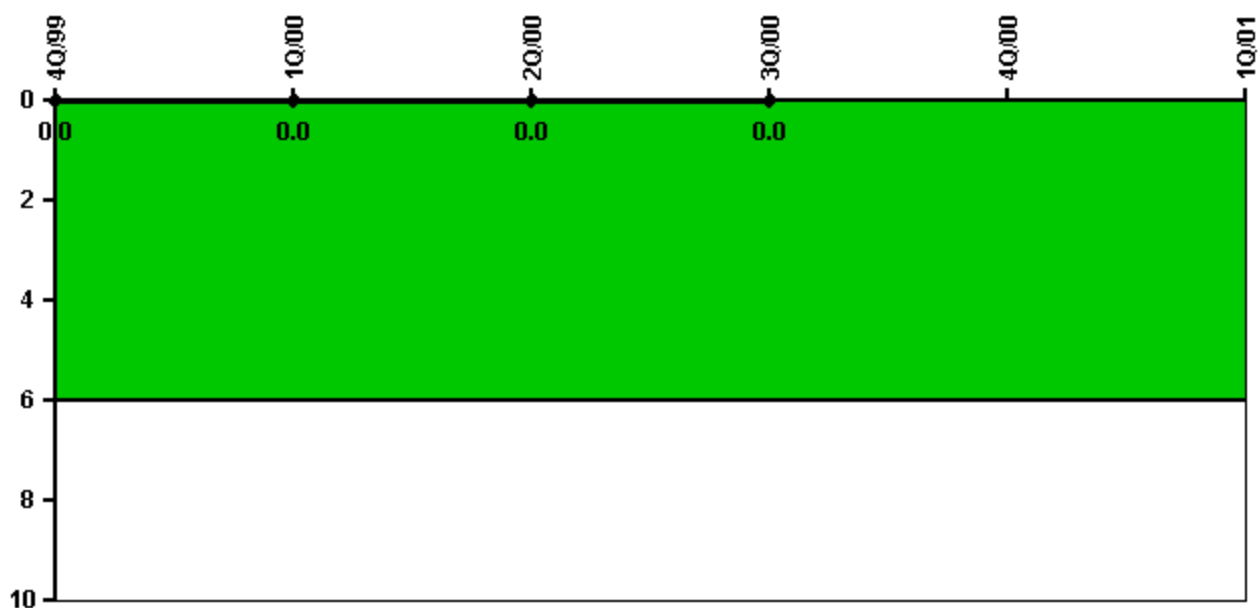
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

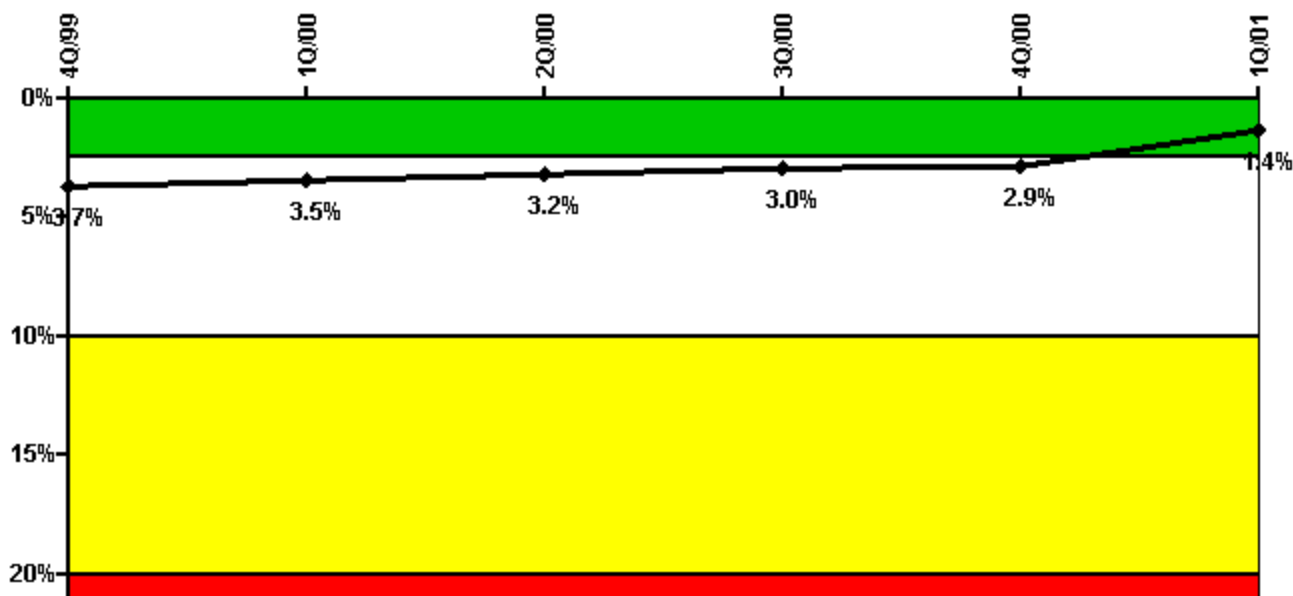
Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned power changes	0	0	0	0	0	2.0
Critical hours	1902.0	1099.5	0	0	44.2	2160.0
Indicator value	0	0	0	0	N/A	N/A

Licensee Comments:

1Q/01: If there are fewer than 2,400 critical hours in the previous four quarters the indicator value is computed as N/A.

Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	52.85	2.12	0	0	0	7.30
Unplanned unavailable hours	38.47	0	0	0	0	0.80
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2208.00	2184.00	2184.00	2208.00	2208.00	2160.00
Train 2						
Planned unavailable hours	7.84	51.14	0	0	0	125.87
Unplanned unavailable hours	0	0	0	0	0	0.63
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2208.00	2184.00	2184.00	2208.00	2208.00	2160.00
Train 3						
Planned unavailable hours	34.25	3.81	0	0	0	81.62
Unplanned unavailable hours	0	0	0	0	0	0.88
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	1443.93
Required hours	2208.00	2184.00	2184.00	2208.00	2208.00	2160.00
Indicator value	3.7%	3.5%	3.2%	3.0%	2.9%	1.4%

Licensee Comments:

1Q/01: Third Quarter 1999 fault exposure hours were removed based on NRC supplemental inspection, completed in Inspection Report 2001-002. This changed the indicator band from white to green.

1Q/01: Third Quarter 1999 fault exposure hours were removed based on NRC supplemental inspection, completed in Inspection Report 2001-002.

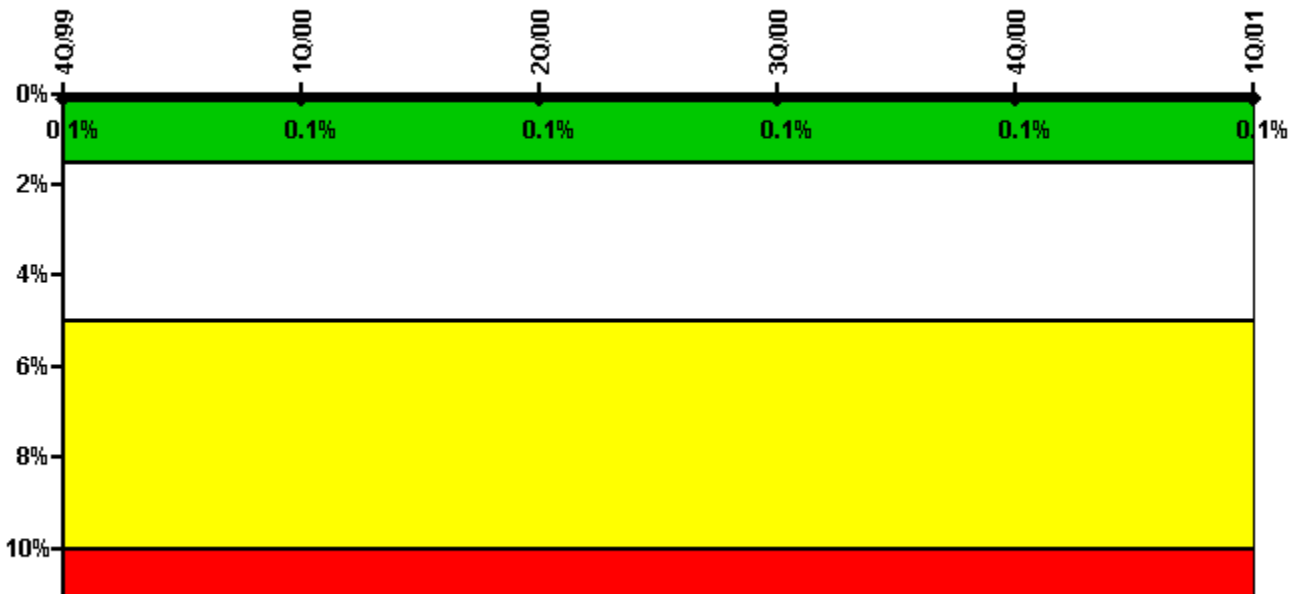
3Q/99: Fault Exposure Hours Reset per NEI, "Supplemental Guidance for Fault Exposure Hour Reset", December 6, 2001

3Q/99: Train three was revised to reflect the removal of fault exposure hours. NRC supplemental inspection completed in Inspection Report 2001-002. All corrective actions have been completed.

Effective Reset Comments:

1Q/01: Fault Exposure Hours Reset per NEI, "Supplemental Guidance for Fault Exposure Hour Reset," December 6, 2001.

Safety System Unavailability, High Pressure Injection System (HPSI)



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

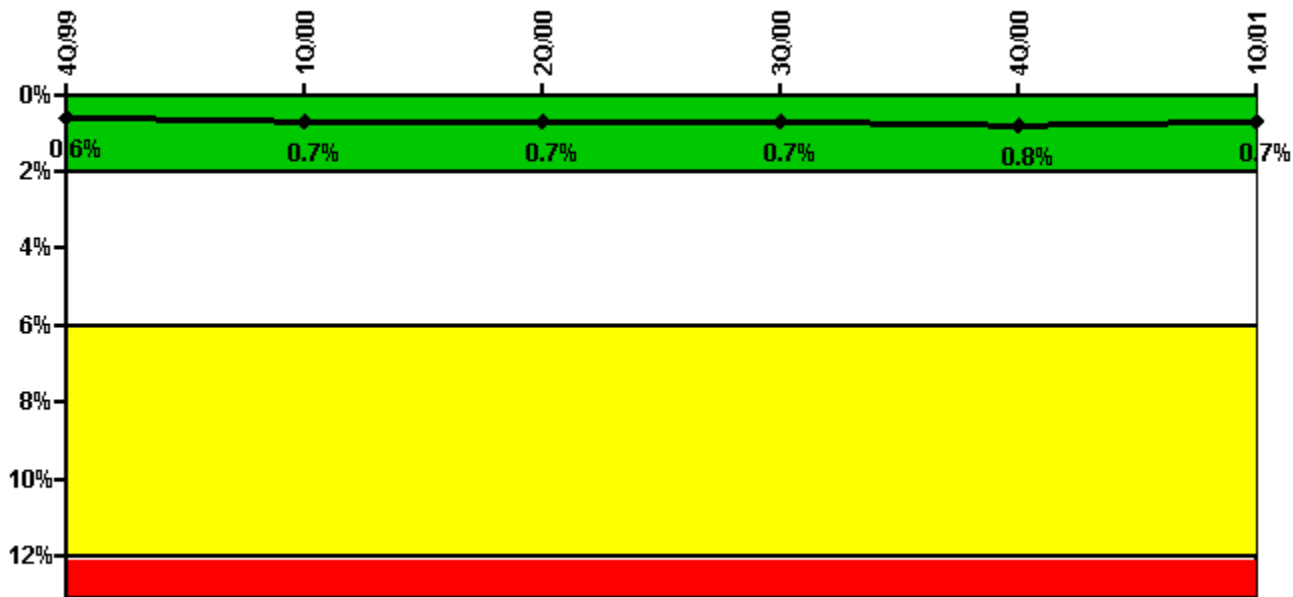
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0	3.60	0	0	0	1.00
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	1902.00	1099.50	0	0	44.17	2160.00
Train 2						
Planned unavailable hours	3.50	0	0	0	0	6.00
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	1902.00	1099.50	0	0	44.17	2160.00
Train 3						
Planned unavailable hours	0	0	0	0	0	4.00
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	1902.00	1099.50	0	0	44.17	2160.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

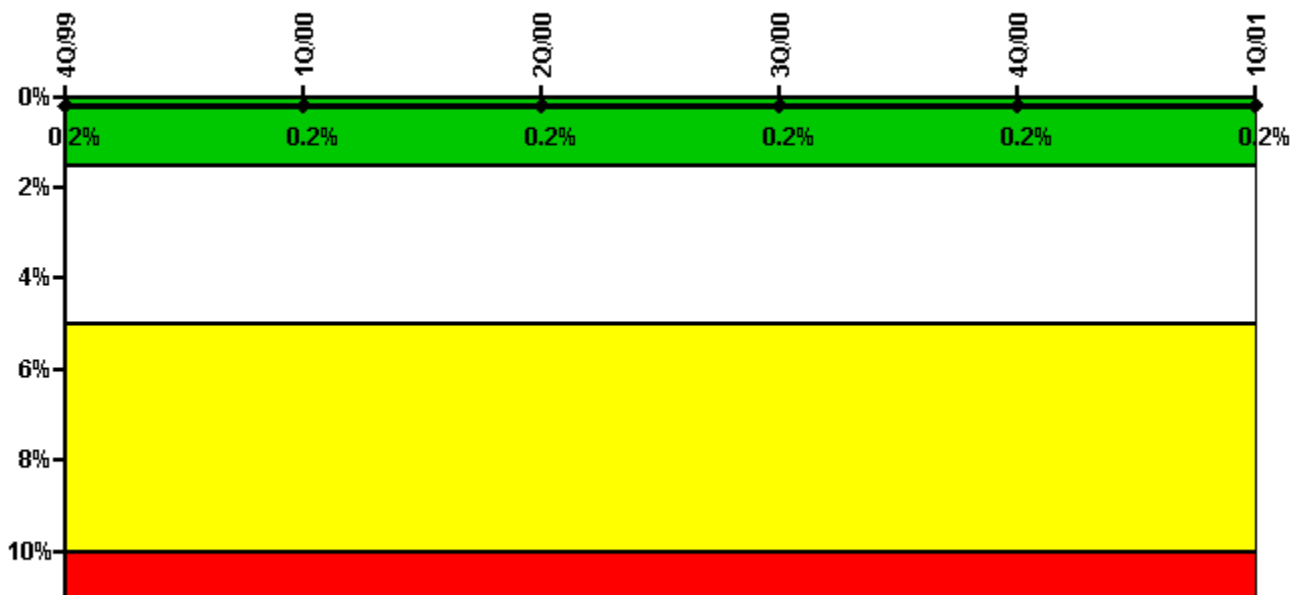
Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	1.00	0	0	0	0	5.00
Unplanned unavailable hours	0	0	0	0	0	0.40
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	1902.00	1099.50	0	0	44.17	2160.00
Train 2						
Planned unavailable hours	2.50	13.70	0	0	0	5.75
Unplanned unavailable hours	0	0.30	0	0	0	0.42
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	1902.00	1099.50	0	0	44.17	2160.00
Train 3						
Planned unavailable hours	2.00	13.00	0	0	0	13.50

Unplanned unavailable hours	0	0	0	0	0	4.42
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	1902.00	1099.50	0	0	44.17	2160.00
Indicator value	0.6%	0.7%	0.7%	0.7%	0.8%	0.7%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



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

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0.40	0.50	0	0	0	8.00
Unplanned unavailable hours	0	0	0	0	0	6.40
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	1163.00	957.10	2160.00
Train 2						
Planned unavailable hours	0.10	0.50	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	4.50
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	1163.00	957.10	2160.00
Train 3						

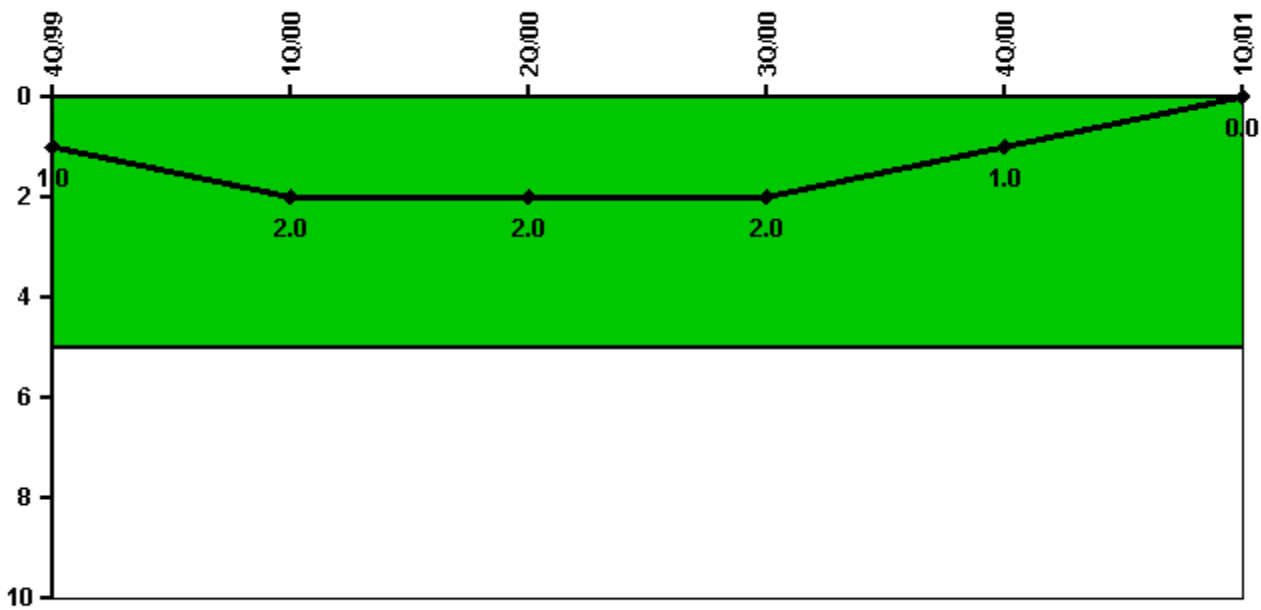
Planned unavailable hours	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	0	1163.00	957.10	2160.00
Train 4						
Planned unavailable hours	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	0	1163.00	957.10	2160.00
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments:

1Q/01: All RHR data has been revised to reflect a change from a two train system to a four train system.

2Q/00: Unit off-line for 2nd quarter.

Safety System Functional Failures (PWR)



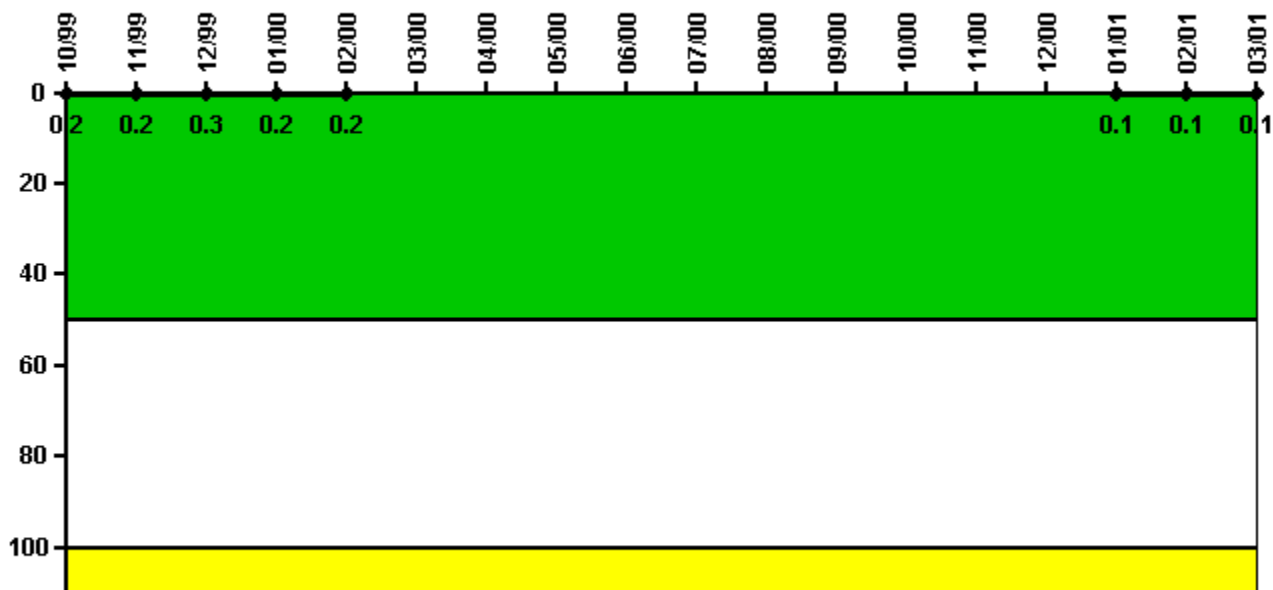
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

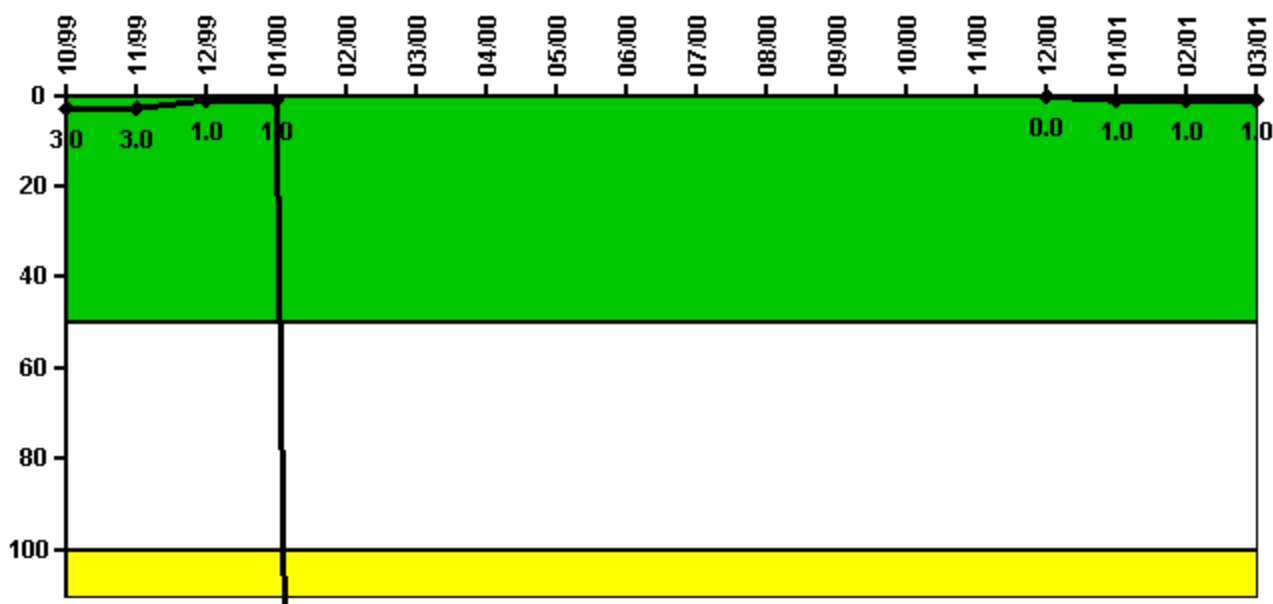
Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.002190	0.002300	0.002600	0.002390	0.002280	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.3	0.2	0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	N/A	N/A	N/A	0.000600	0.000700	0.000800
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	N/A	N/A	0.1	0.1	0.1

Licensee Comments:

3/01: The unit returned to greater than 5% power operation during January 2001.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

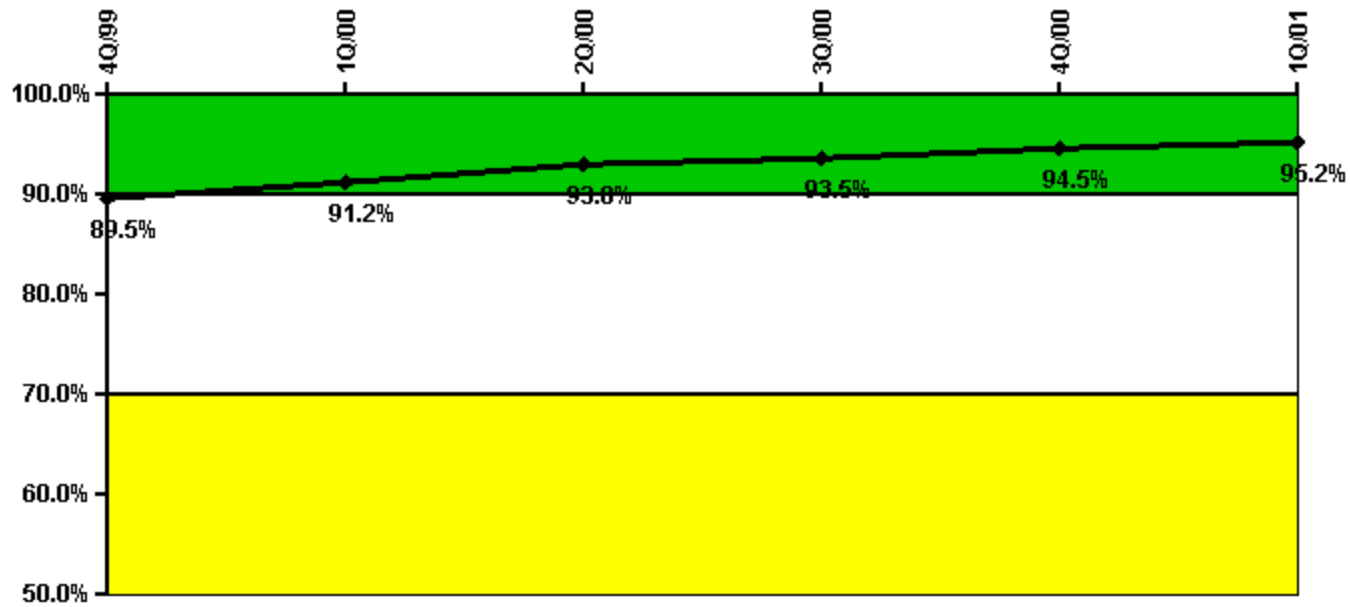
Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.300	0.300	0.100	0.100	109.000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.0	3.0	1.0	1.0	1090.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	N/A	N/A	0	0.100	0.100	0.100
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	N/A	N/A	0	1.0	1.0	1.0

Licensee Comments:

3/01: This indicator is recorded monthly. If plant conditions do not require RCS leakage to be calculated, the report is noted as N/A.

Drill/Exercise Performance



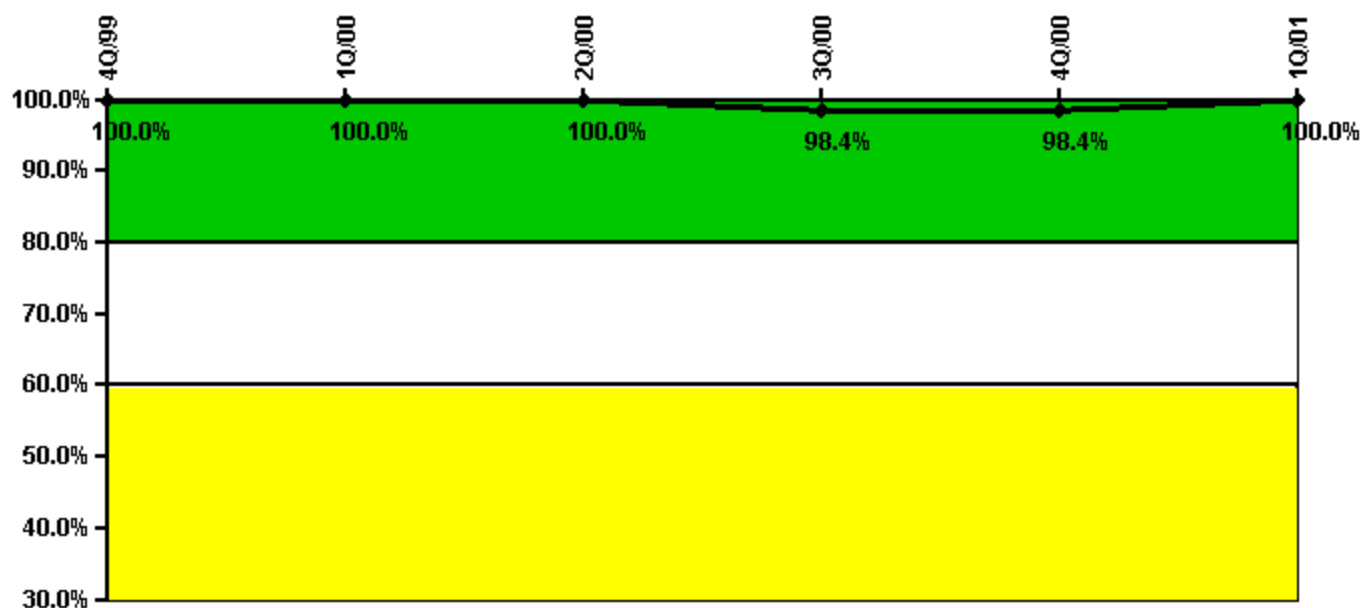
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful opportunities	28.0	29.0	30.0	9.0	13.0	28.0
Total opportunities	28.0	30.0	30.0	9.0	14.0	29.0
Indicator value	89.5%	91.2%	93.0%	93.5%	94.5%	95.2%

Licensee Comments: none

ERO Drill Participation



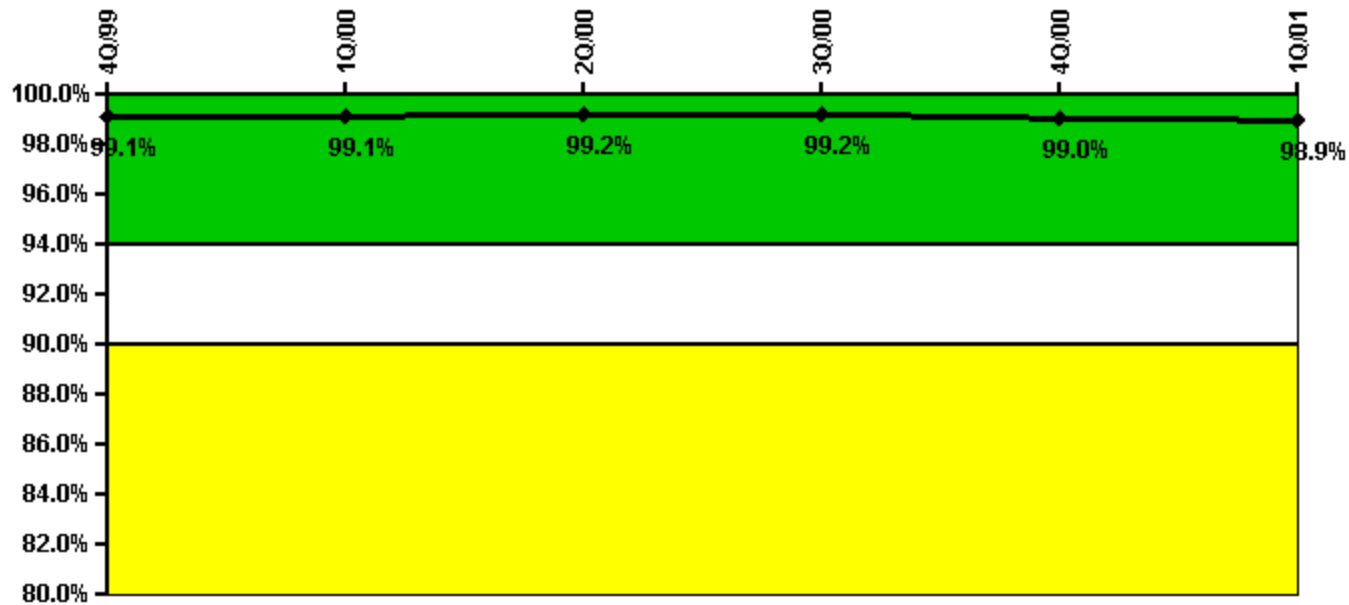
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Participating Key personnel	63.0	62.0	67.0	63.0	62.0	48.0
Total Key personnel	63.0	62.0	67.0	64.0	63.0	48.0
Indicator value	100.0%	100.0%	100.0%	98.4%	98.4%	100.0%

Licensee Comments: none

Alert & Notification System



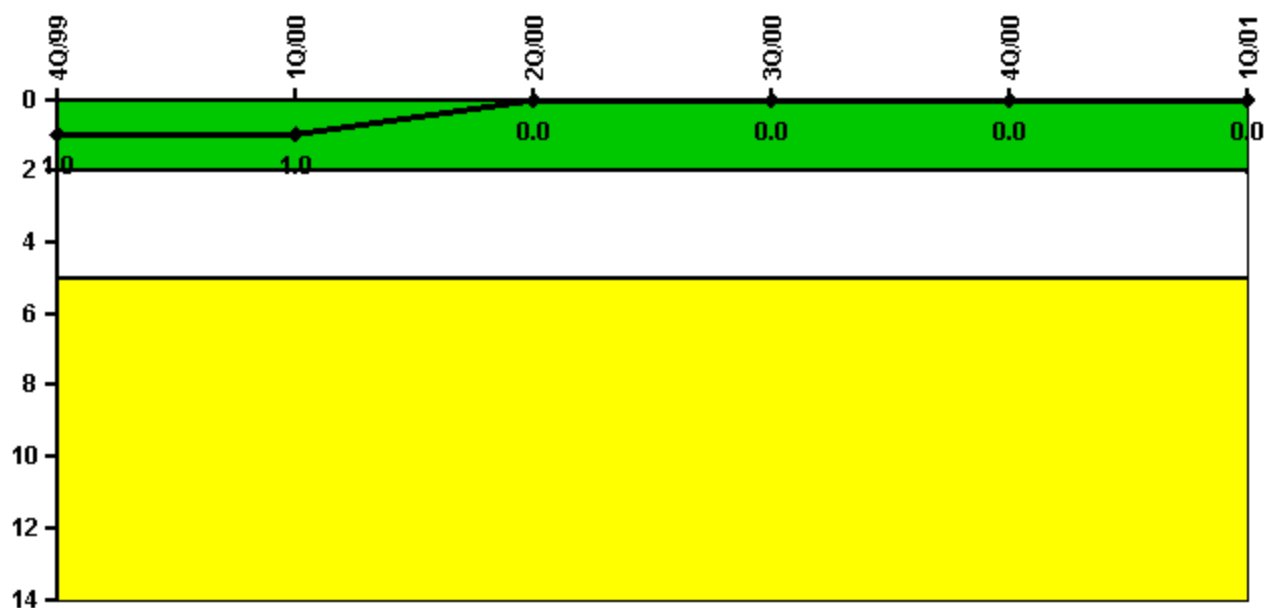
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful siren-tests	1217	920	1225	914	906	1069
Total sirens-tests	1232	924	1232	924	924	1078
Indicator value	99.1%	99.1%	99.2%	99.2%	99.0%	98.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

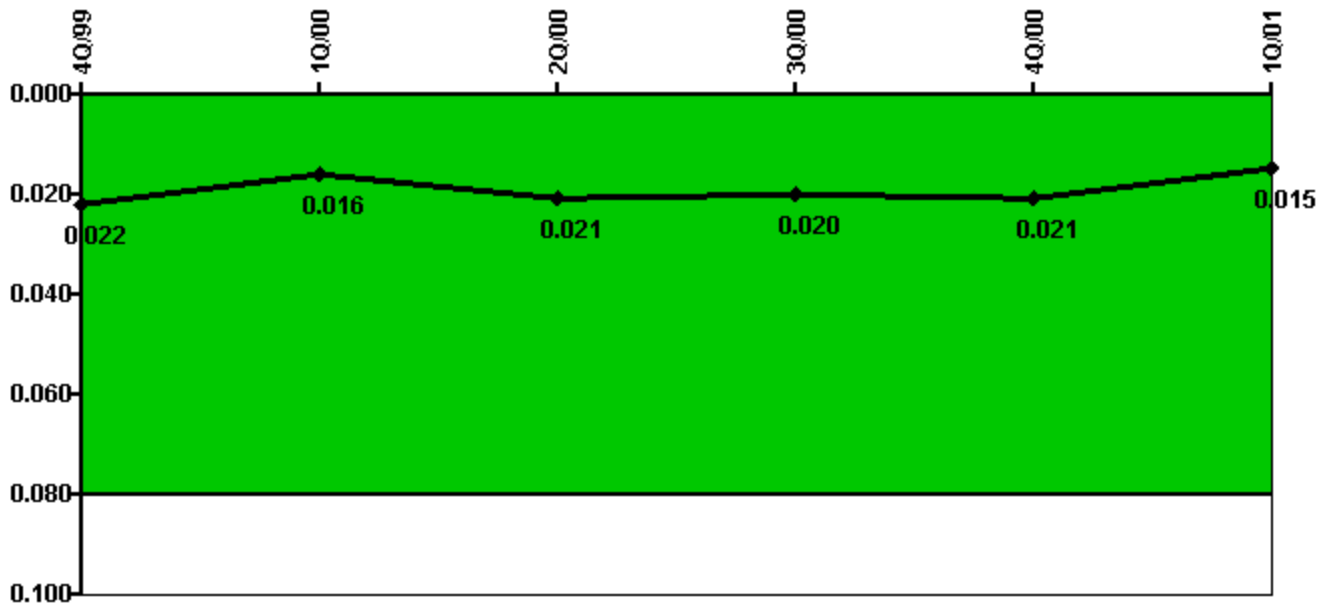
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

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	10.25	0	90.82	41.35	75.92	7.49
CCTV compensatory hours	56.5	135.7	0.6	26.7	6.3	21.0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	0.022	0.016	0.021	0.020	0.021	0.015

Licensee Comments: none

Personnel Screening Program



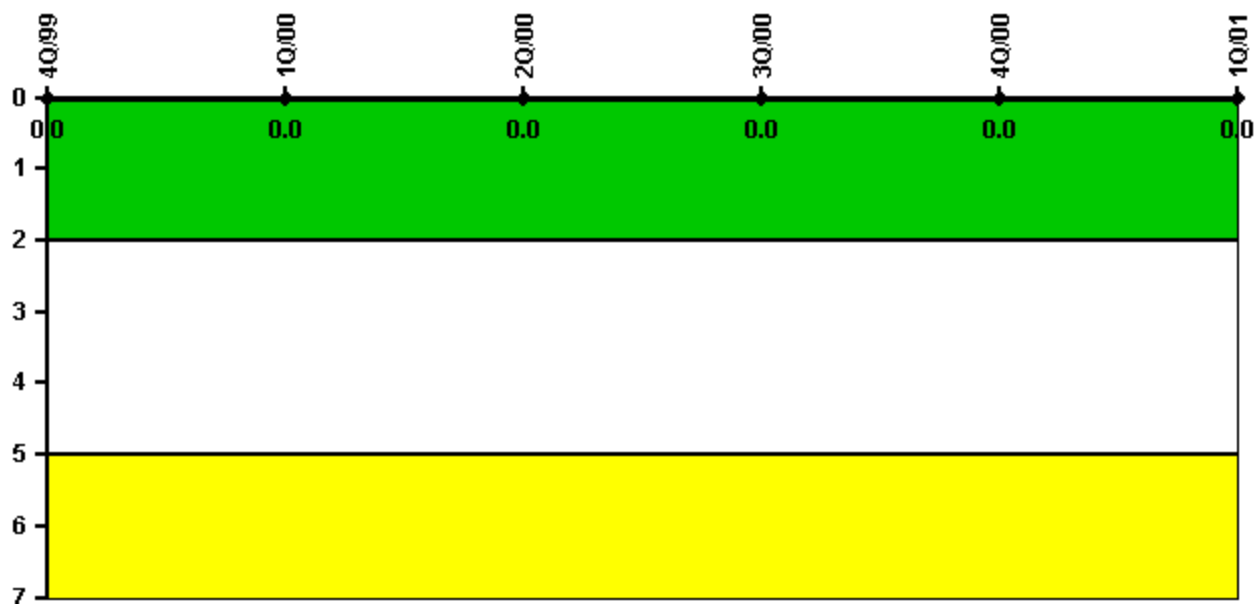
Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
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](#)

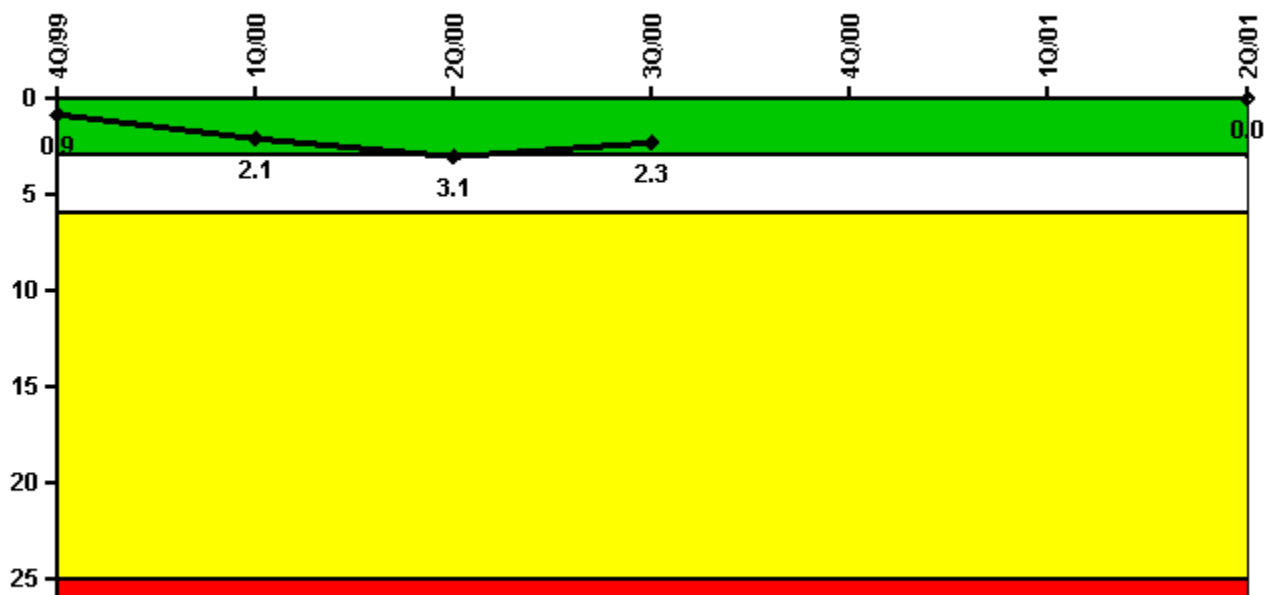
Last Modified: March 28, 2002

Indian Point 2

2Q/2001 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



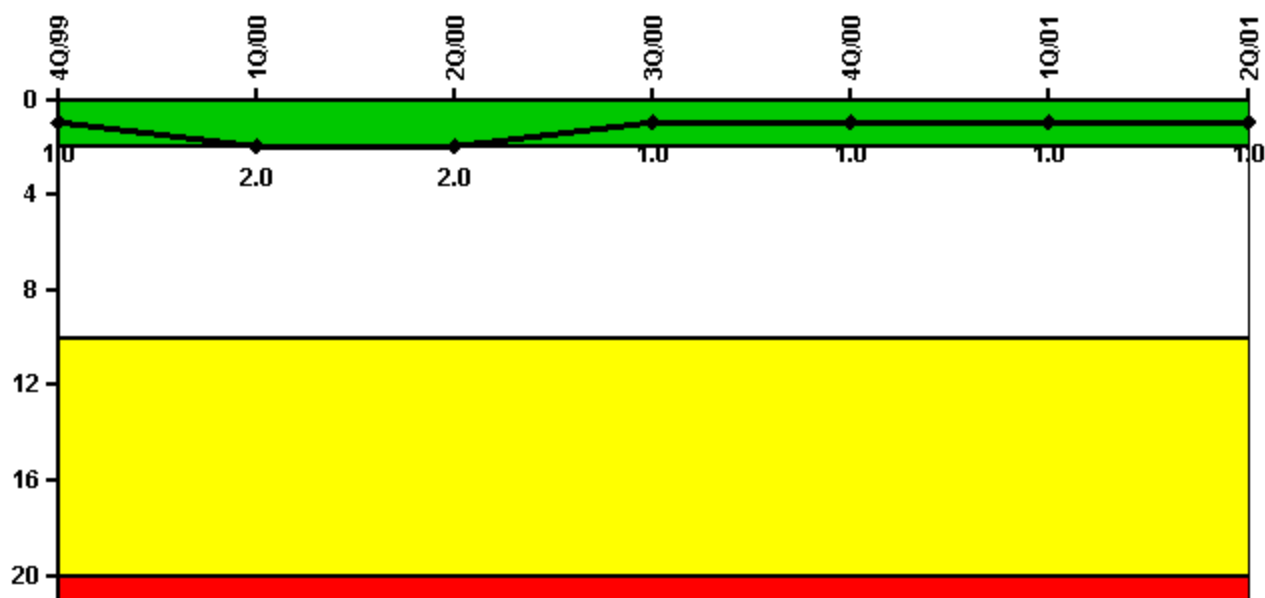
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned scrams	0	1.0	0	0	0	0	0
Critical hours	1902.0	1099.5	0	0	44.2	2160.0	2183.0
Indicator value	0.9	2.1	3.1	2.3	N/A	N/A	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



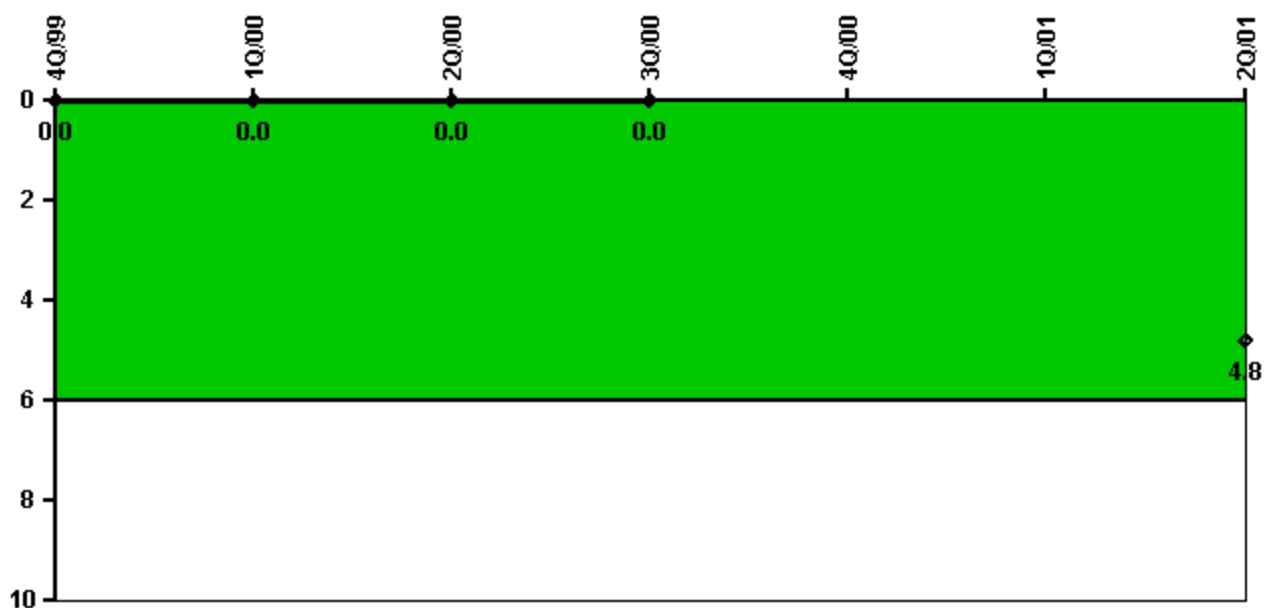
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



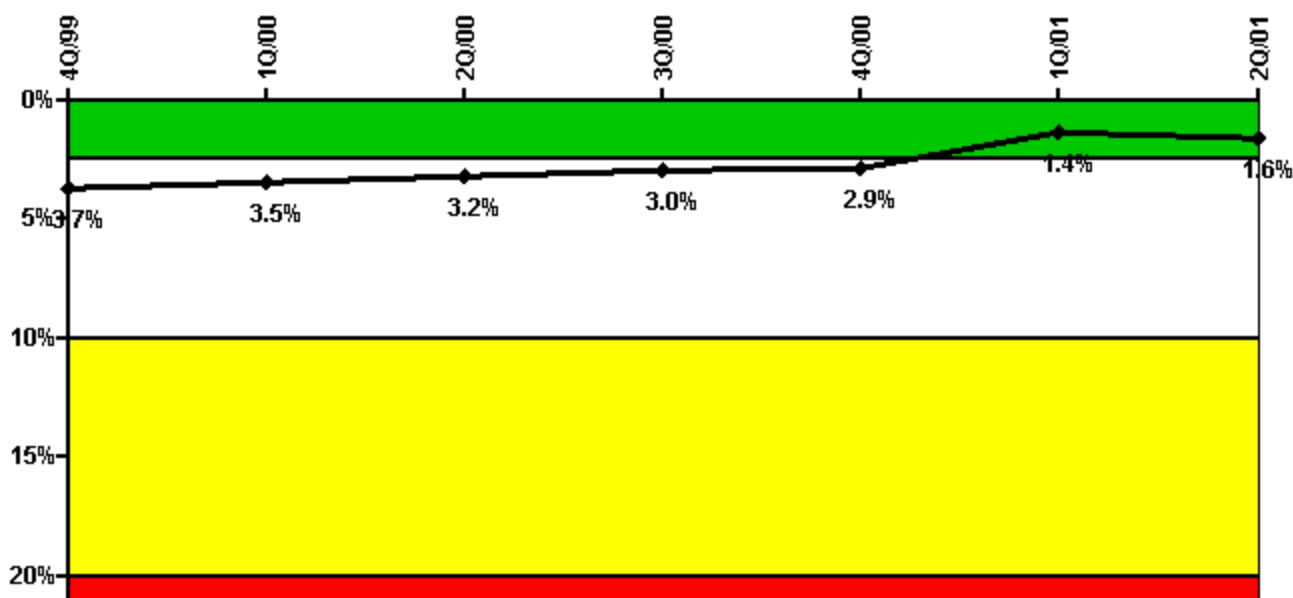
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned power changes	0	0	0	0	0	2.0	1.0
Critical hours	1902.0	1099.5	0	0	44.2	2160.0	2183.0
Indicator value	0	0	0	0	N/A	N/A	4.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	52.85	2.12	0	0	0	7.30	111.65
Unplanned unavailable hours	38.47	0	0	0	0	0.80	32.93
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2208.00	2184.00	2184.00	2208.00	2208.00	2160.00	2183.00
Train 2							
Planned unavailable hours	7.84	51.14	0	0	0	125.87	9.92
Unplanned unavailable hours	0	0	0	0	0	0.63	1.03
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2208.00	2184.00	2184.00	2208.00	2208.00	2160.00	2183.00
Train 3							
Planned unavailable hours	34.25	3.81	0	0	0	81.62	28.93
Unplanned unavailable hours	0	0	0	0	0	0.88	29.03
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	1443.93	0
Required hours	2208.00	2184.00	2184.00	2208.00	2208.00	2160.00	2183.00
Indicator value	3.7%	3.5%	3.2%	3.0%	2.9%	1.4%	1.6%

Licensee Comments:

1Q/01: Third Quarter 1999 fault exposure hours were removed based on NRC supplemental inspection, completed in Inspection Report 2001-002.

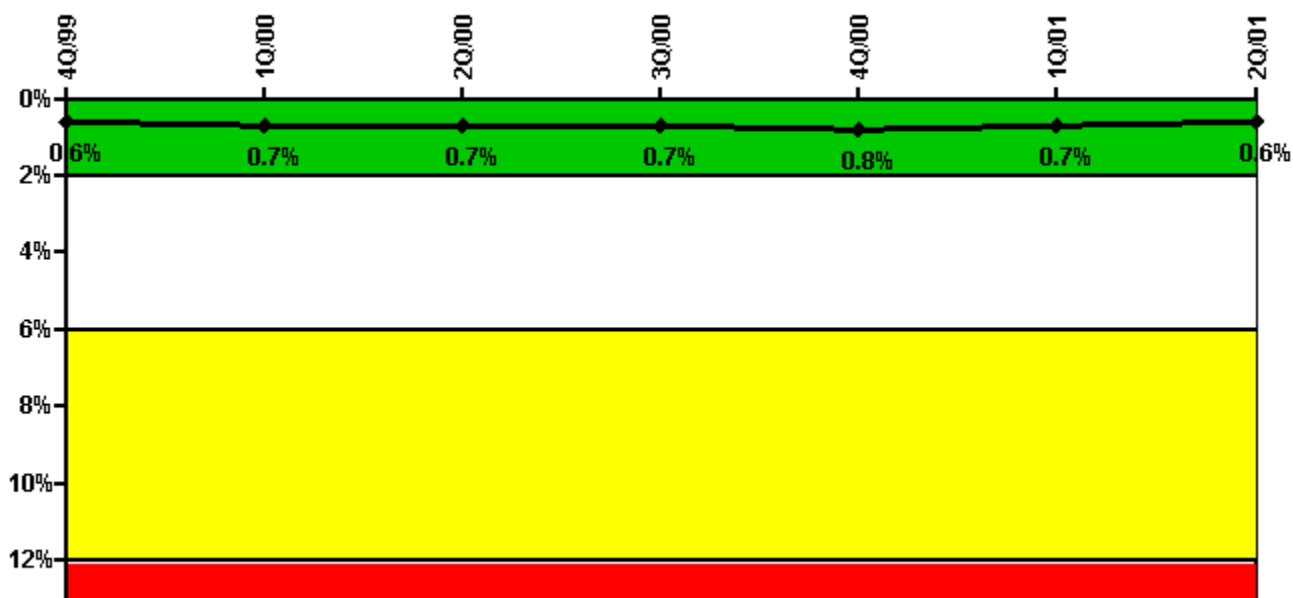
3Q/99: Fault Exposure Hours Reset per NEI, "Supplemental Guidance for Fault Exposure Hour Reset", December 6, 2001

Effective Reset Comments:

Licensee Comments:

2Q/01: Minor revisions were made in second quarter unavailable hours. Performance indicator remains in green band.

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

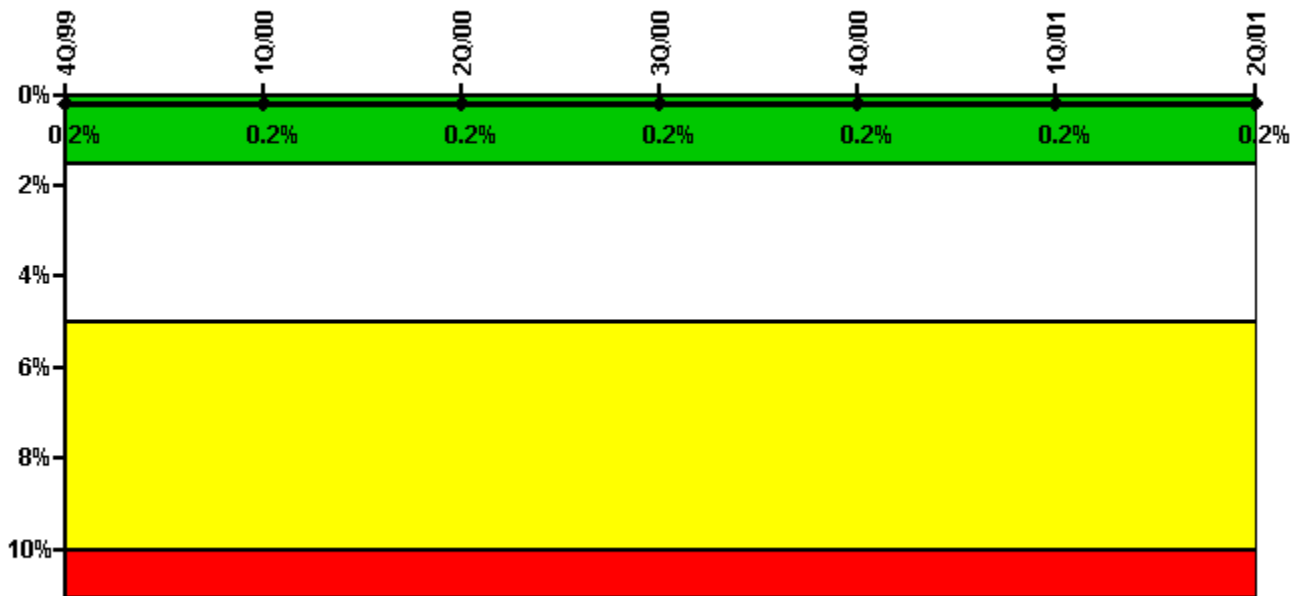
Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	1.00	0	0	0	0	5.00	5.10
Unplanned unavailable hours	0	0	0	0	0	0.40	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	1902.00	1099.50	0	0	44.17	2160.00	2183.00
Train 2							
Planned unavailable hours	2.50	13.70	0	0	0	5.75	5.80
Unplanned unavailable hours	0	0.30	0	0	0	0.42	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	1902.00	1099.50	0	0	44.17	2160.00	2183.00
Train 3							
Planned unavailable hours	2.00	13.00	0	0	0	13.50	2.50
Unplanned unavailable hours	0	0	0	0	0	4.42	3.50
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	1902.00	1099.50	0	0	44.17	2160.00	2183.00

Indicator value	0.6%	0.7%	0.7%	0.7%	0.8%	0.7%	0.6%

Licensee Comments:

2Q/01: Minor revisions were made in second quarter unavailable hours. Performance indicator remains in green band.

Safety System Unavailability, Residual Heat Removal System



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

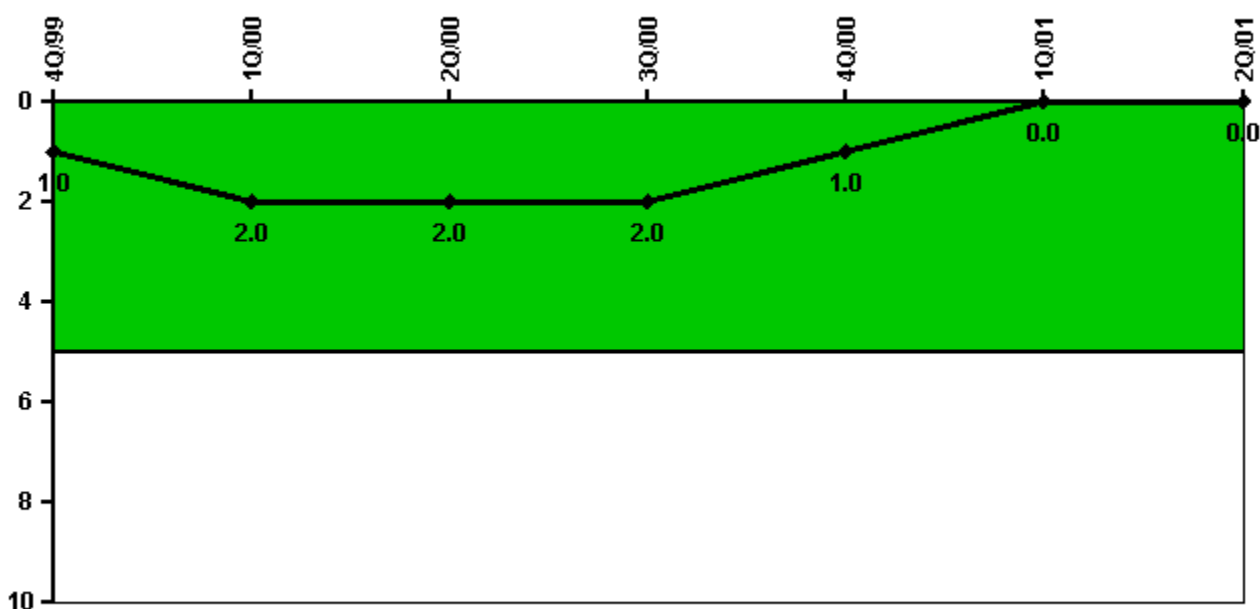
Notes

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	0.40	0.50	0	0	0	8.00	4.50
Unplanned unavailable hours	0	0	0	0	0	6.40	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	1163.00	957.10	2160.00	2183.00
Train 2							
Planned unavailable hours	0.10	0.50	0	0	0	0	0.50
Unplanned unavailable hours	0	0	0	0	0	4.50	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	1163.00	957.10	2160.00	2183.00
Train 3							
Planned unavailable hours	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0

Required hours	2209.00	2184.00	0	1163.00	957.10	2160.00	2183.00
Train 4							
Planned unavailable hours	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	0	1163.00	957.10	2160.00	2183.00
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

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

Licensee Comments:

2Q/01: There was one LER issued by IP2 in the 2nd quarter of 2001: LER 2001-002. The LER reported for this quarter did not meet the criteria for reporting a safety system functional failure.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

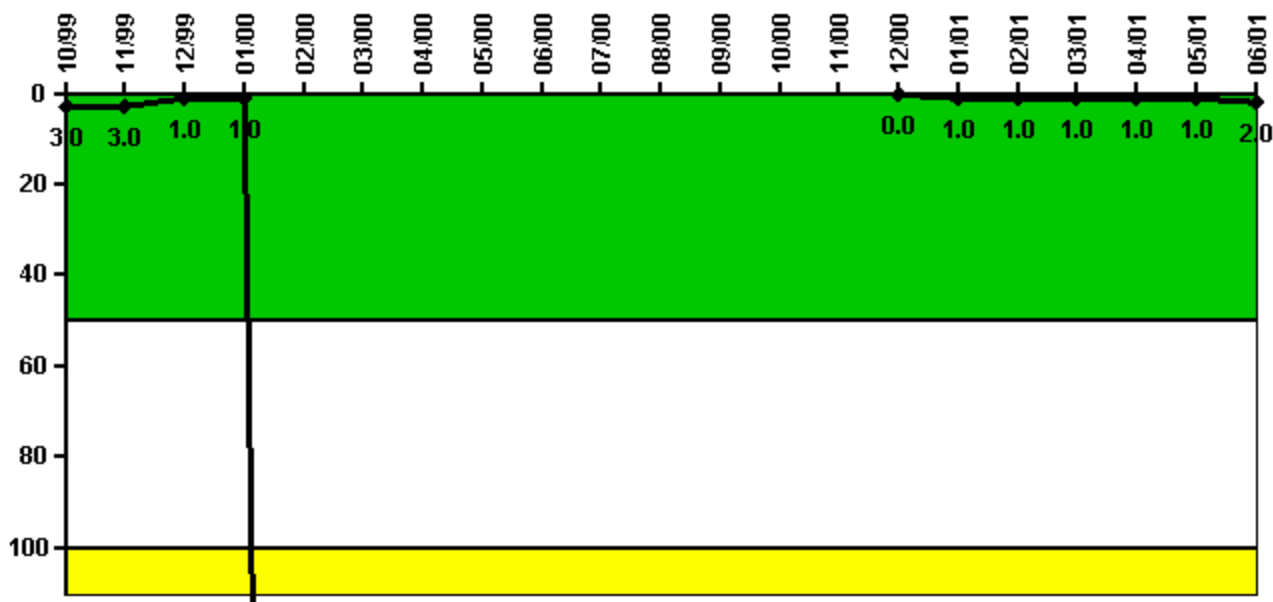
Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.002190	0.002300	0.002600	0.002390	0.002280	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.3	0.2	0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	N/A	N/A	N/A	0.000600	0.000700	0.000800	0.000770	0.000790	0.001400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	N/A	N/A	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments:

6/01: April and May 2001 data were revised. The revision did not change the indicator color. When the field data were originally input to this data base the data were transposed and entered a factor of ten greater than actual.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

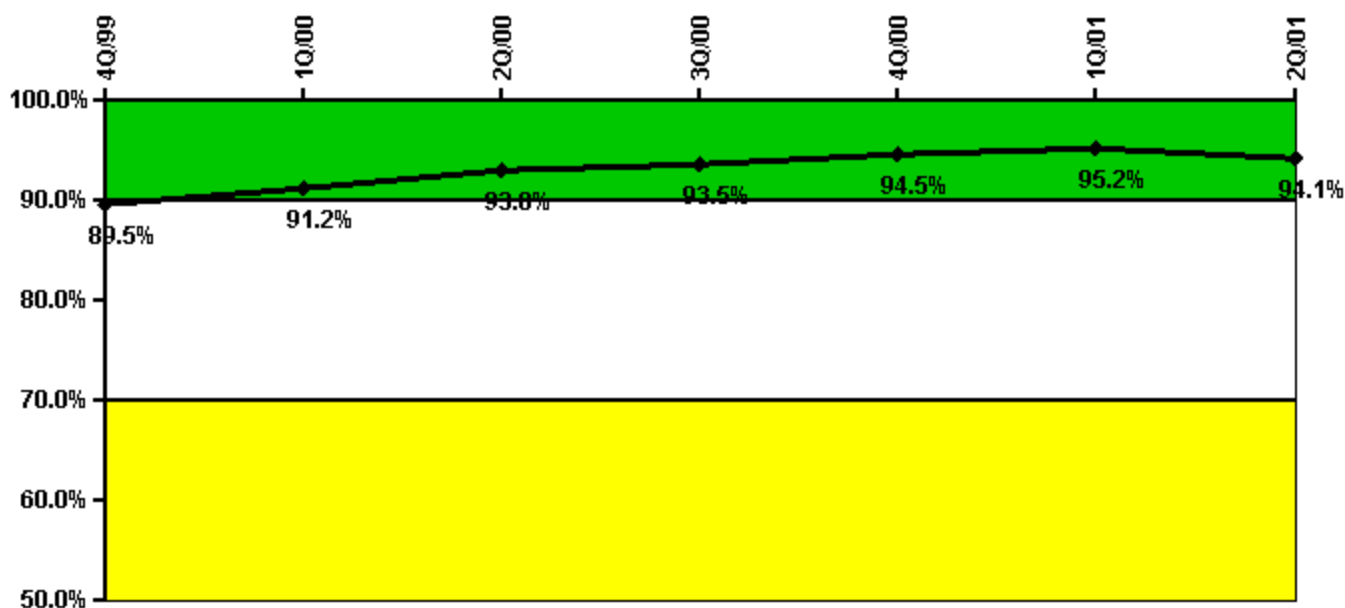
Notes

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	0.300	0.300	0.100	0.100	109.000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.0	3.0	1.0	1.0	1090.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	N/A	N/A	0	0.100	0.100	0.100	0.100	0.100	0.200
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	N/A	N/A	0	1.0	1.0	1.0	1.0	1.0	2.0

Licensee Comments: none

Drill/Exercise Performance



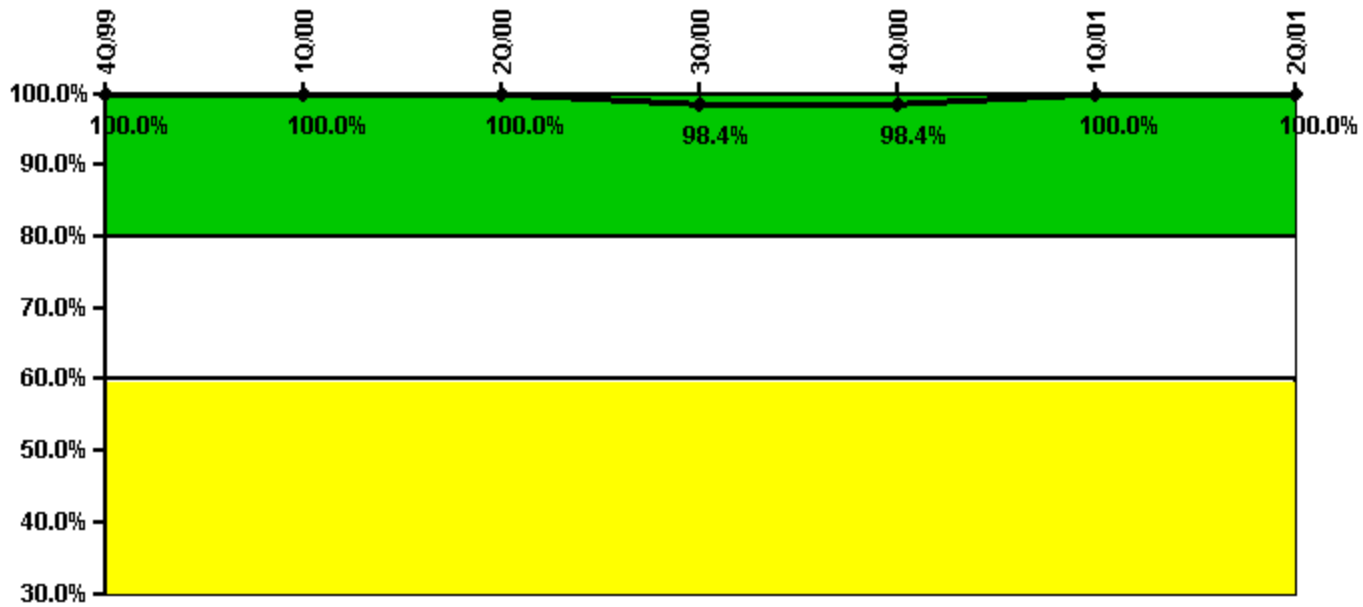
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Successful opportunities	28.0	29.0	30.0	9.0	13.0	28.0	15.0
Total opportunities	28.0	30.0	30.0	9.0	14.0	29.0	18.0
Indicator value	89.5%	91.2%	93.0%	93.5%	94.5%	95.2%	94.1%

Licensee Comments: none

ERO Drill Participation



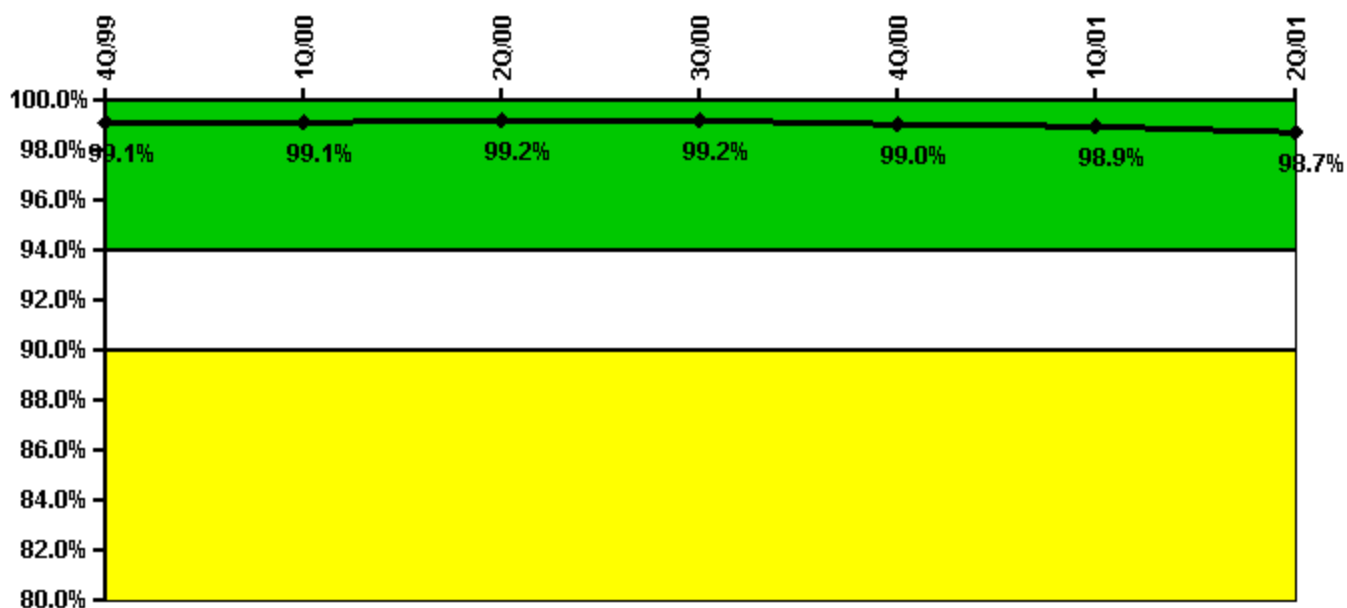
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Participating Key personnel	63.0	62.0	67.0	63.0	62.0	48.0	48.0
Total Key personnel	63.0	62.0	67.0	64.0	63.0	48.0	48.0
Indicator value	100.0%	100.0%	100.0%	98.4%	98.4%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



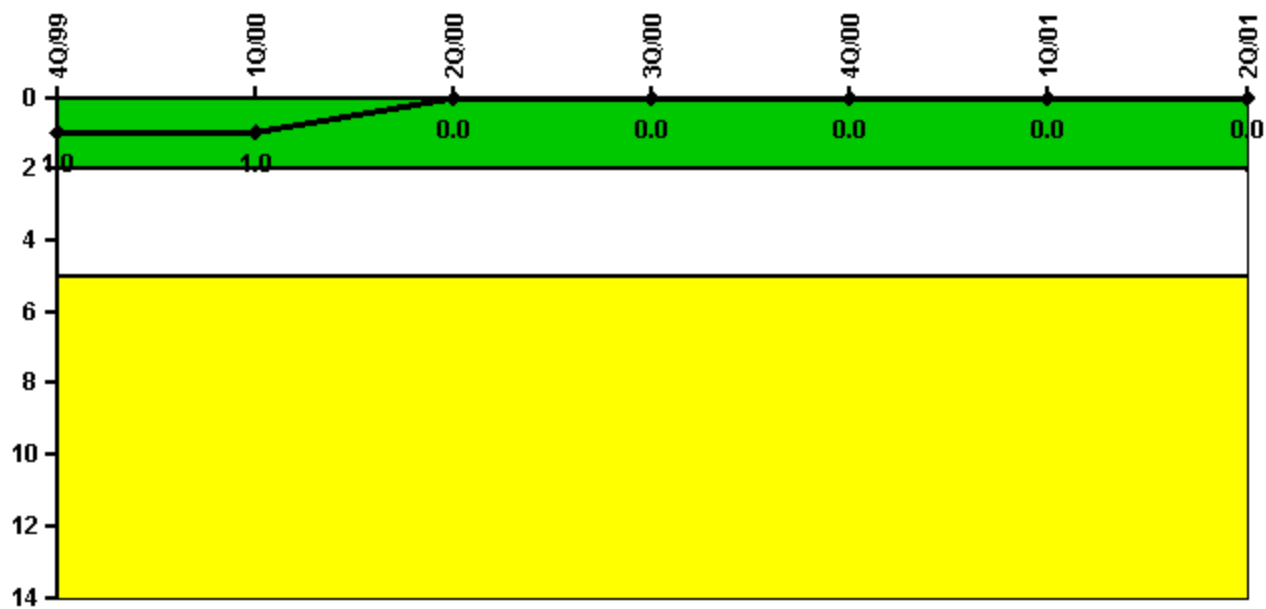
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Successful siren-tests	1217	920	1225	914	906	1069	1062
Total sirens-tests	1232	924	1232	924	924	1078	1078
Indicator value	99.1%	99.1%	99.2%	99.2%	99.0%	98.9%	98.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



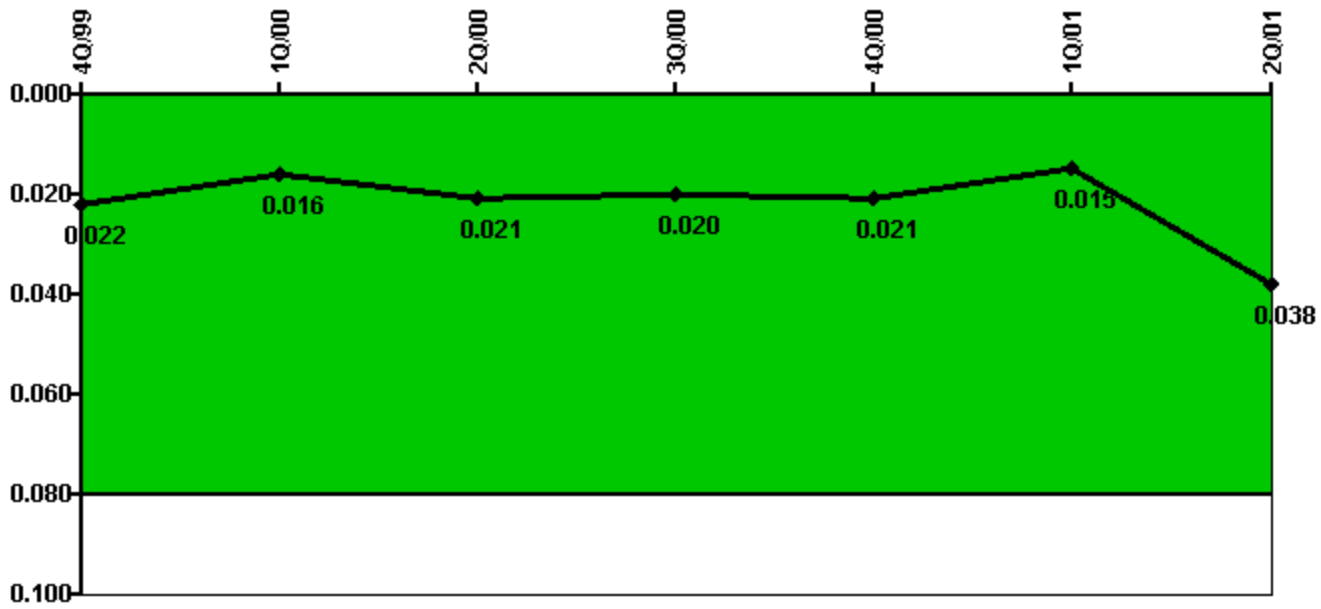
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



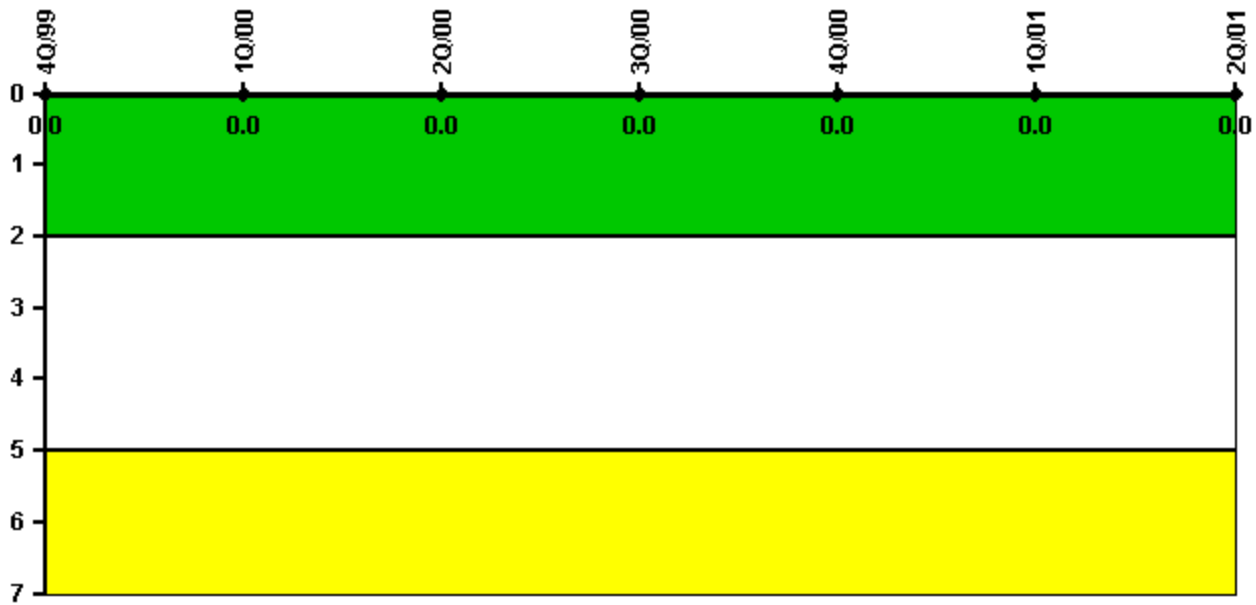
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
IDS compensatory hours	10.25	0	90.82	41.35	75.92	7.49	238.12
CCTV compensatory hours	56.5	135.7	0.6	26.7	6.3	21.0	285.2
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	0.022	0.016	0.021	0.020	0.021	0.015	0.038

Licensee Comments: none

Personnel Screening Program



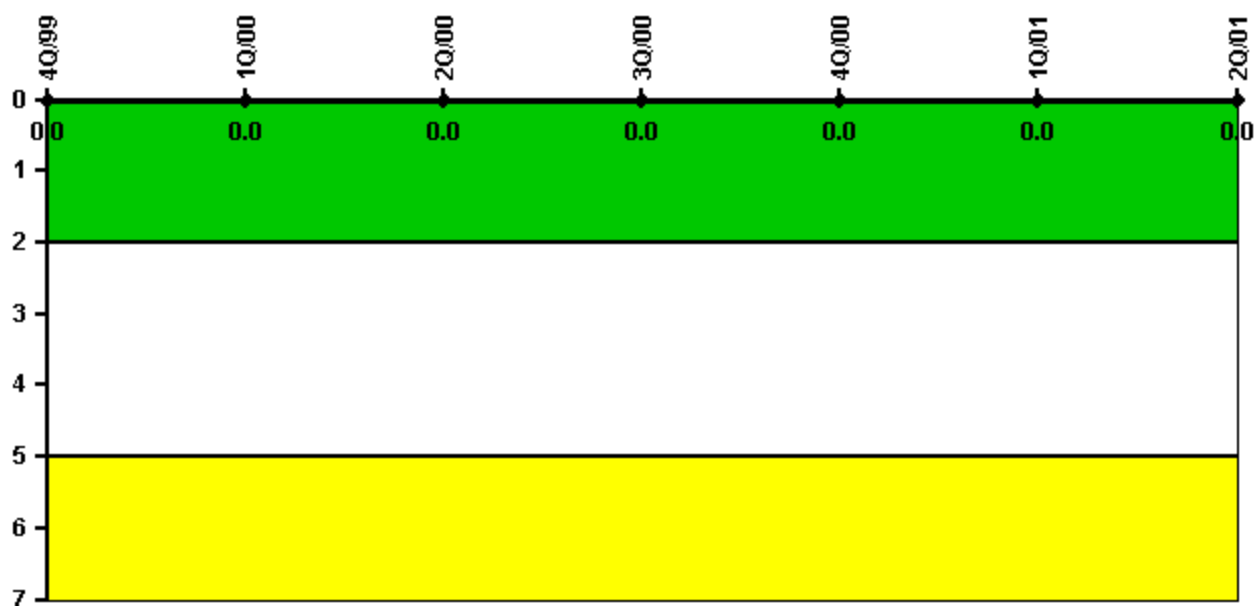
Thresholds: White > 2.0 Yellow > 5.0

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](#)

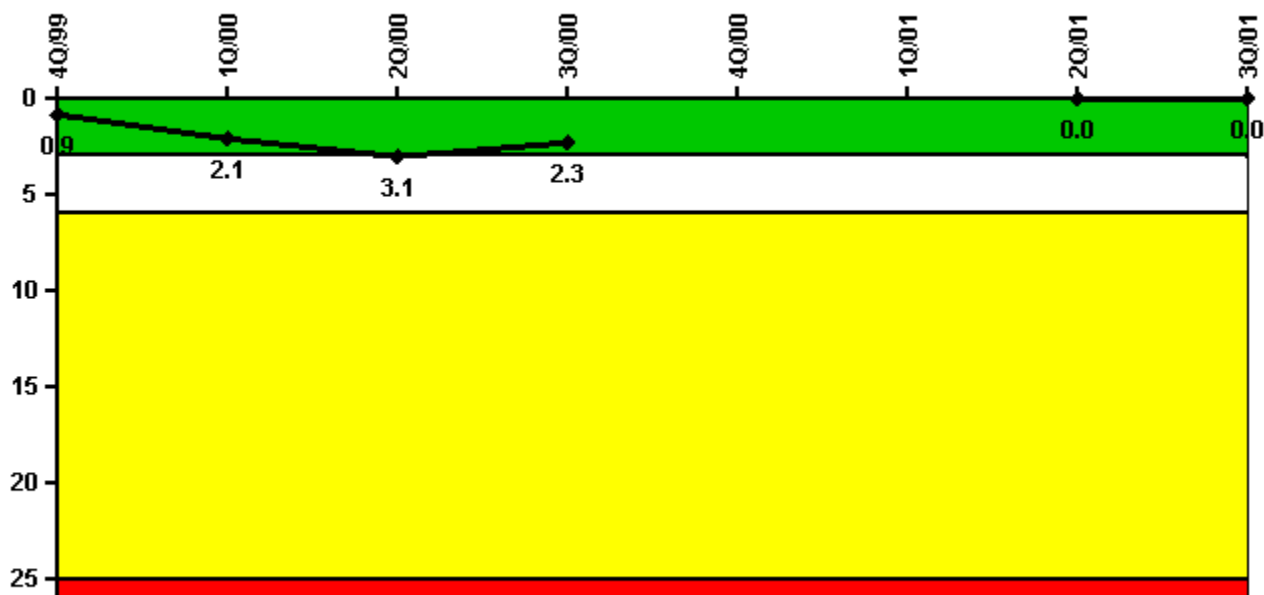
Last Modified: March 27, 2002

Indian Point 2

3Q/2001 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



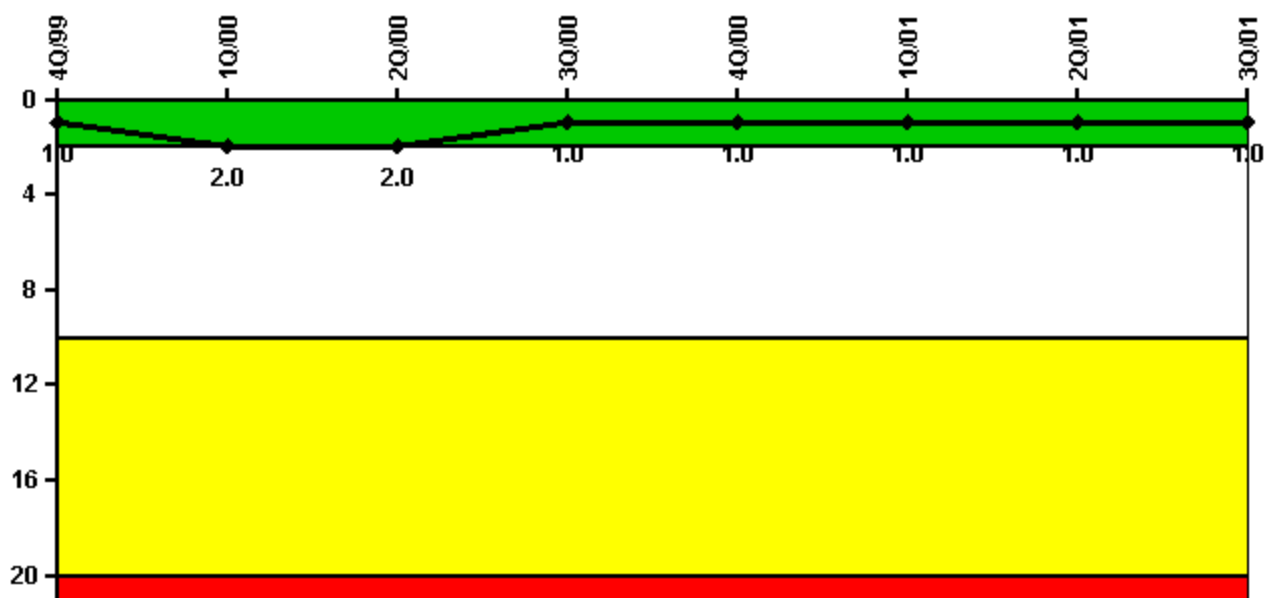
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	1902.0	1099.5	0	0	44.2	2160.0	2183.0	2208.0
Indicator value	0.9	2.1	3.1	2.3	N/A	N/A	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



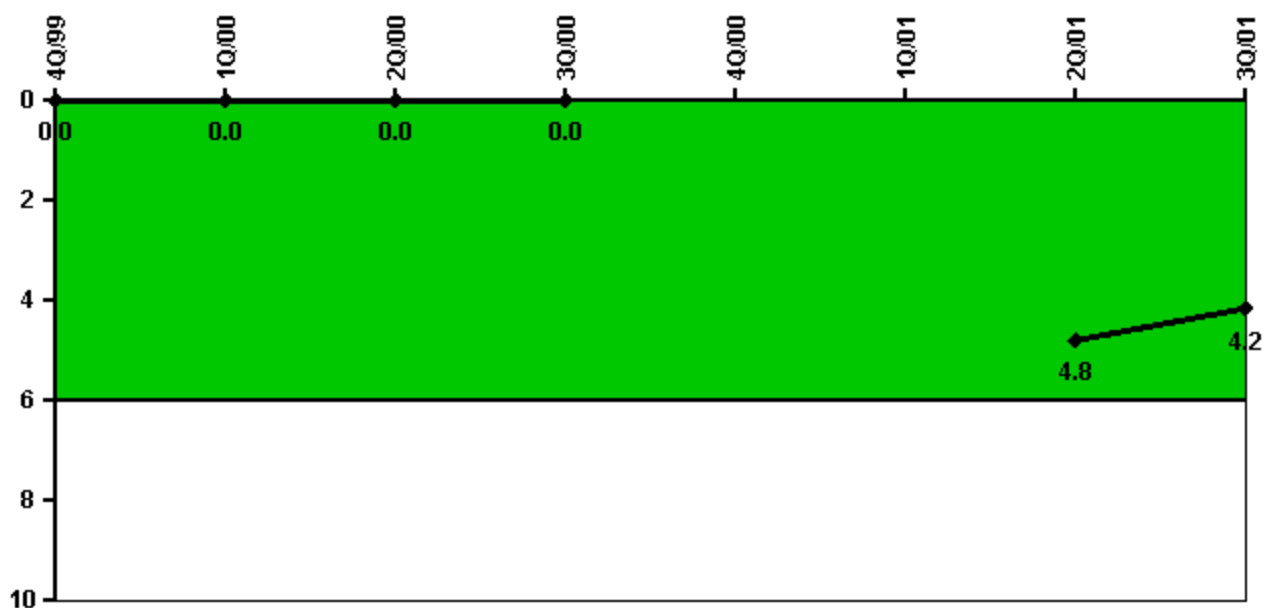
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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



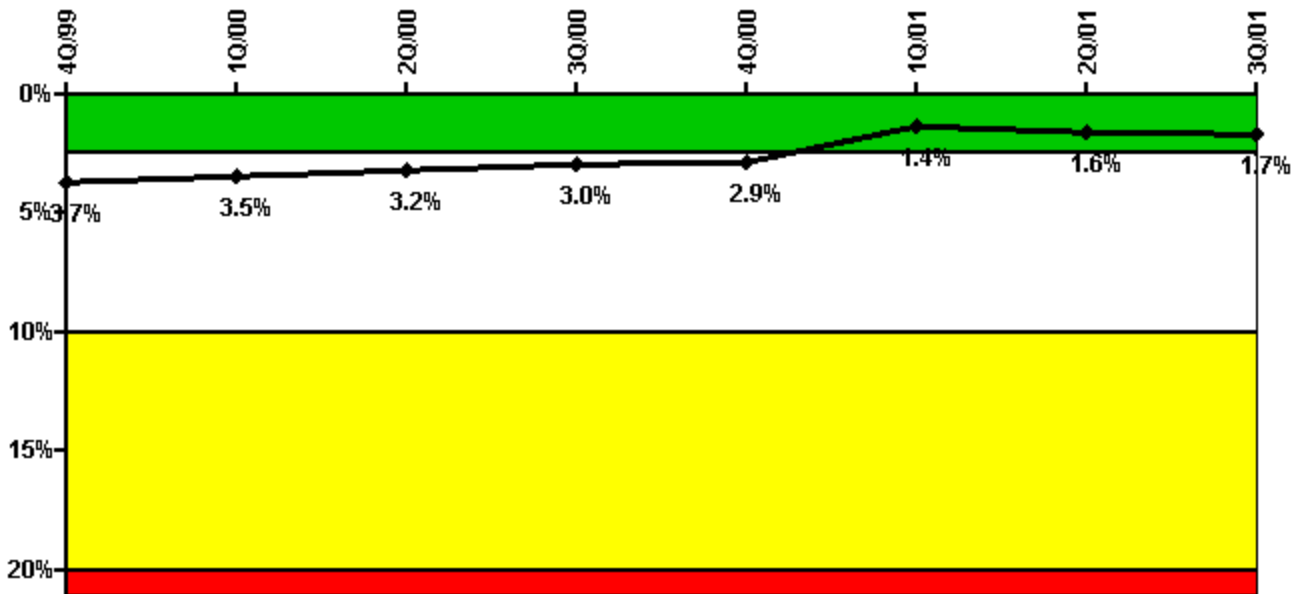
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned power changes	0	0	0	0	0	2.0	1.0	1.0
Critical hours	1902.0	1099.5	0	0	44.2	2160.0	2183.0	2208.0
Indicator value	0	0	0	0	N/A	N/A	4.8	4.2

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	52.85	2.12	0	0	0	7.30	111.65	8.80
Unplanned unavailable hours	38.47	0	0	0	0	0.80	32.93	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2184.00	2184.00	2208.00	2208.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	7.84	51.14	0	0	0	125.87	9.92	51.58
Unplanned unavailable hours	0	0	0	0	0	0.63	1.03	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2184.00	2184.00	2208.00	2208.00	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	34.25	3.81	0	0	0	81.62	28.93	86.63
Unplanned unavailable hours	0	0	0	0	0	0.88	29.03	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	1443.93	0	0
Required hours	2208.00	2184.00	2184.00	2208.00	2208.00	2160.00	2183.00	2208.00
Indicator value	3.7%	3.5%	3.2%	3.0%	2.9%	1.4%	1.6%	1.7%

Licensee Comments:

1Q/01: Third Quarter 1999 fault exposure hours were removed based on NRC supplemental inspection, completed in Inspection Report 2001-002.

3Q/99: Fault Exposure Hours Reset per NEI, "Supplemental Guidance for Fault Exposure Hour Reset", December 6, 2001

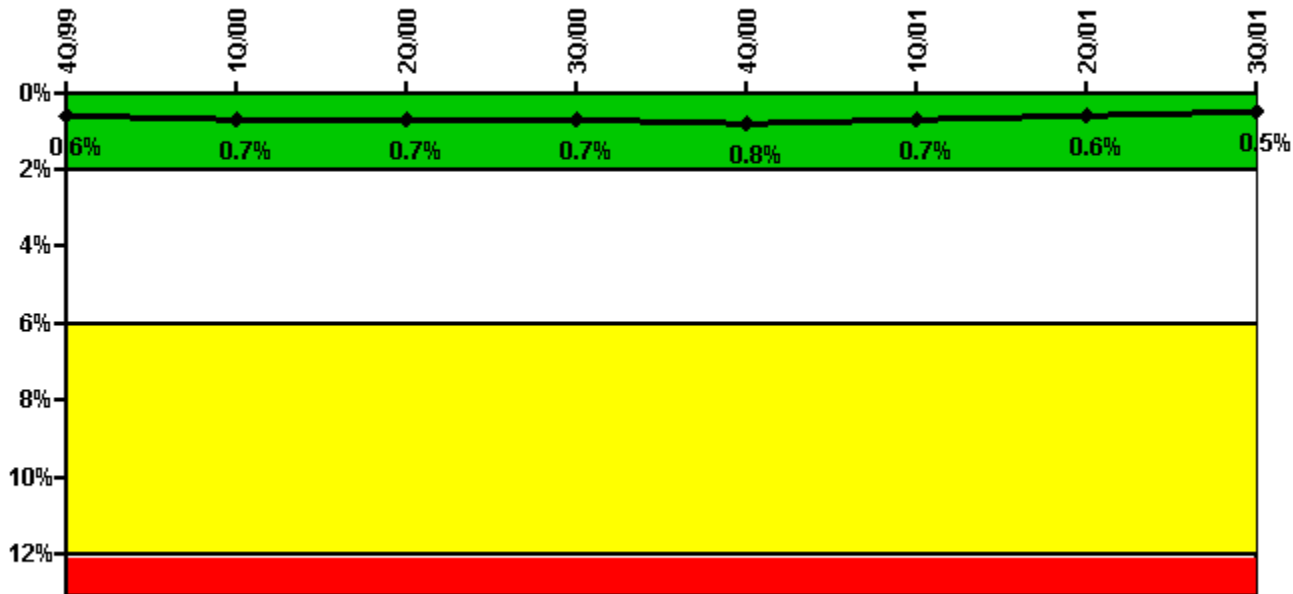
Effective Reset Comments:

Licensee Comments:

3Q/01: Minor revisions were made in second quarter unavailable hours. Performance indicator remains in green band.

2Q/01: Minor revisions were made in second quarter unavailable hours. Performance indicator remains in green band.

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	1.00	0	0	0	0	5.00	5.10	8.50
Unplanned unavailable hours	0	0	0	0	0	0.40	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1902.00	1099.50	0	0	44.17	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	2.50	13.70	0	0	0	5.75	5.80	6.17
Unplanned unavailable hours	0	0.30	0	0	0	0.42	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1902.00	1099.50	0	0	44.17	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	2.00	13.00	0	0	0	13.50	2.50	1.30
Unplanned unavailable hours	0	0	0	0	0	4.42	3.50	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

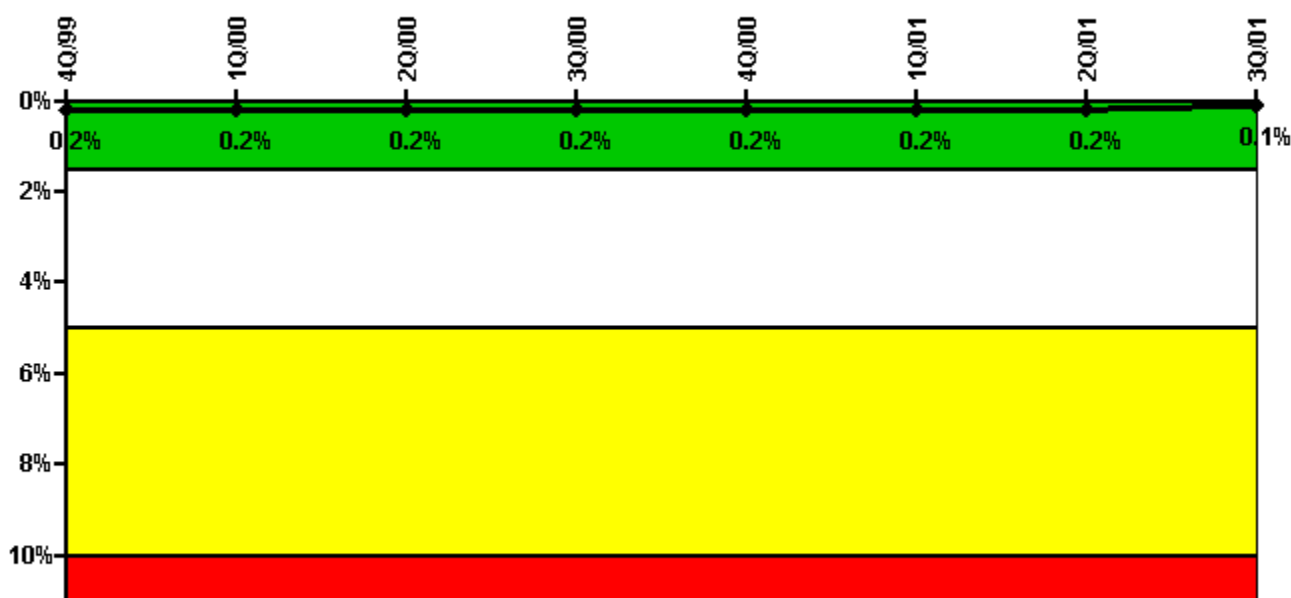
Required hours	1902.00	1099.50	0	0	44.17	2160.00	2183.00	2208.00
Indicator value	0.6%	0.7%	0.7%	0.7%	0.8%	0.7%	0.6%	0.5%

Licensee Comments:

3Q/01: Minor revisions were made in second quarter unavailable hours. Performance indicator remains in green band.

2Q/01: Minor revisions were made in second quarter unavailable hours. Performance indicator remains in green band.

Safety System Unavailability, Residual Heat Removal System



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

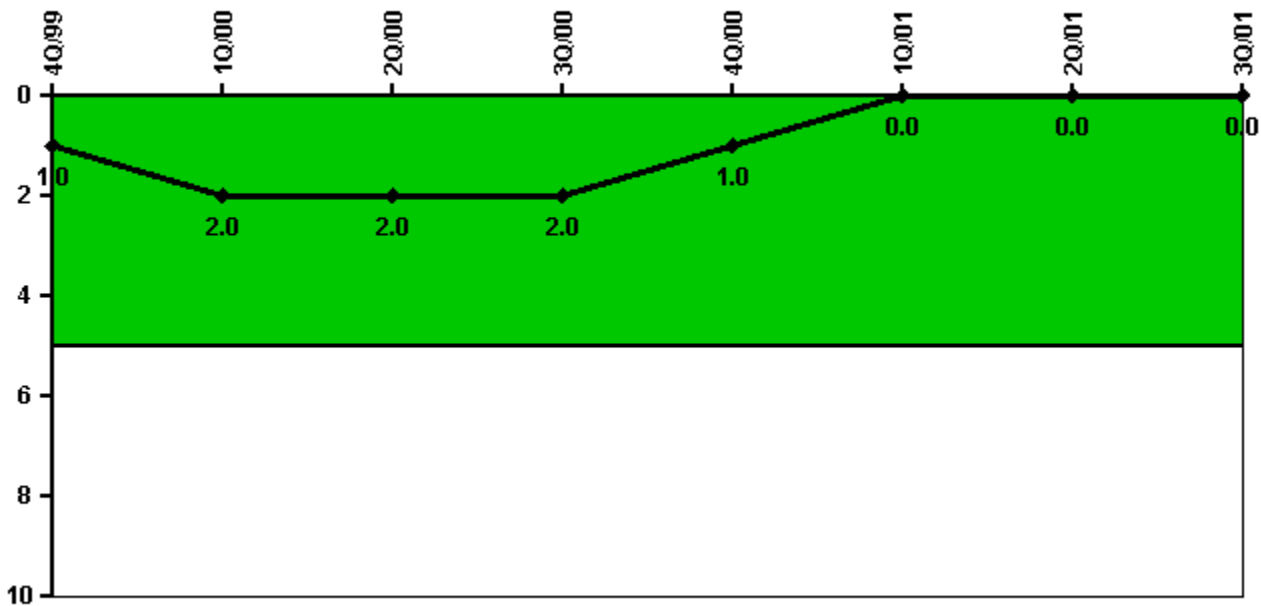
Notes

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	0.40	0.50	0	0	0	8.00	4.50	0.25
Unplanned unavailable hours	0	0	0	0	0	6.40	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	0	1163.00	957.10	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0.10	0.50	0	0	0	0	0.50	0.08
Unplanned unavailable hours	0	0	0	0	0	4.50	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	0	1163.00	957.10	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	2209.00	2184.00	0	1163.00	957.10	2160.00	2183.00	2208.00
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	0	1163.00	957.10	2160.00	2183.00	2208.00
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



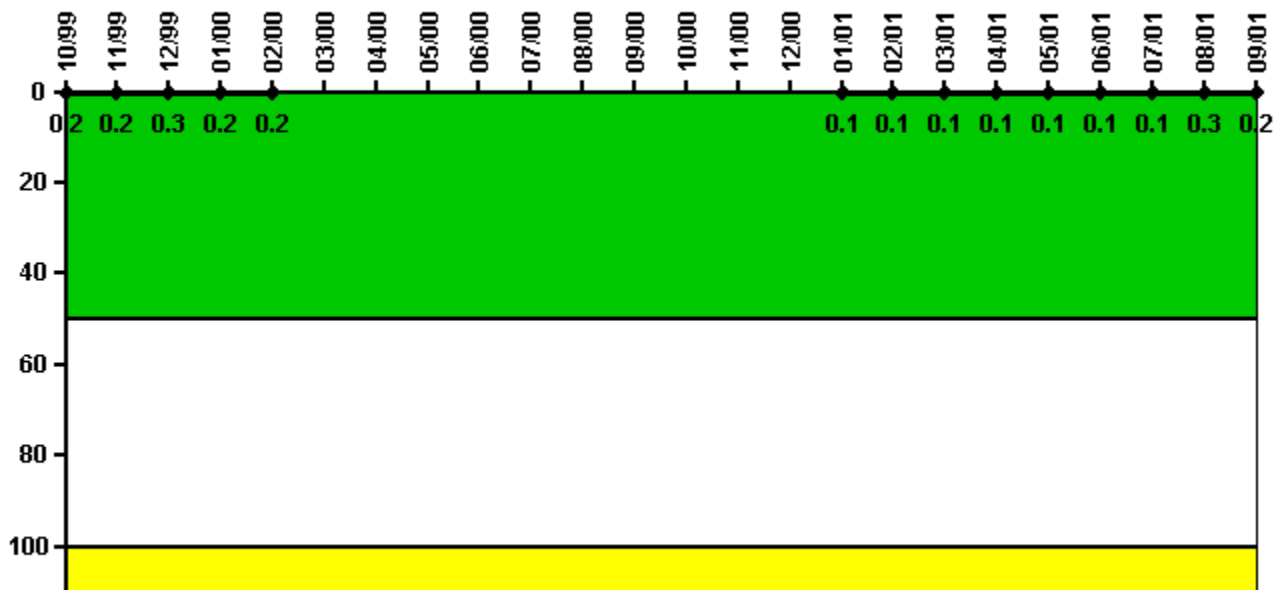
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Safety System Functional Failures	1	1	0	0	0	0	0	0
Indicator value	1	2	2	2	1	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	0.002190	0.002300	0.002600	0.002390	0.002280	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.3	0.2	0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A

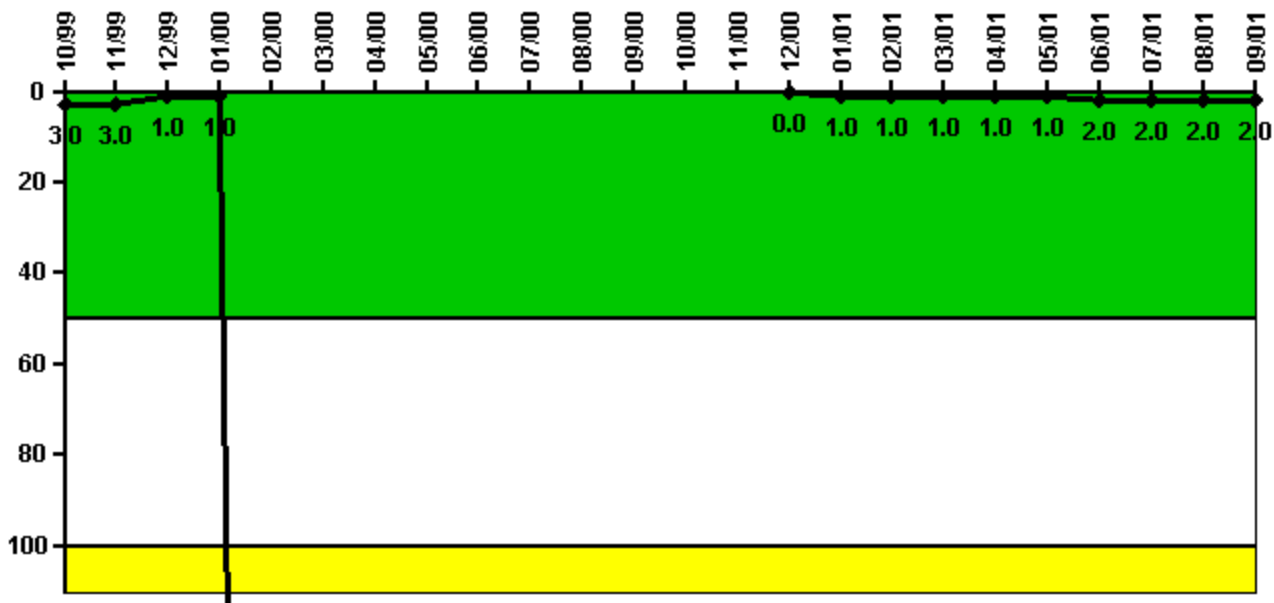
Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum activity	N/A	N/A	N/A	0.000600	0.000700	0.000800	0.000770	0.000790	0.001400	0.001100	0.002700	0.001600
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	N/A	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2

Licensee Comments:

9/01: April and May 2001 data were revised. The revision did not change the indicator color. When the field data were originally input to this data base the data were transposed and entered a factor of ten greater than actual.

6/01: April and May 2001 data were revised. The revision did not change the indicator color. When the field data were originally input to this data base the data were transposed and entered a factor of ten greater than actual.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

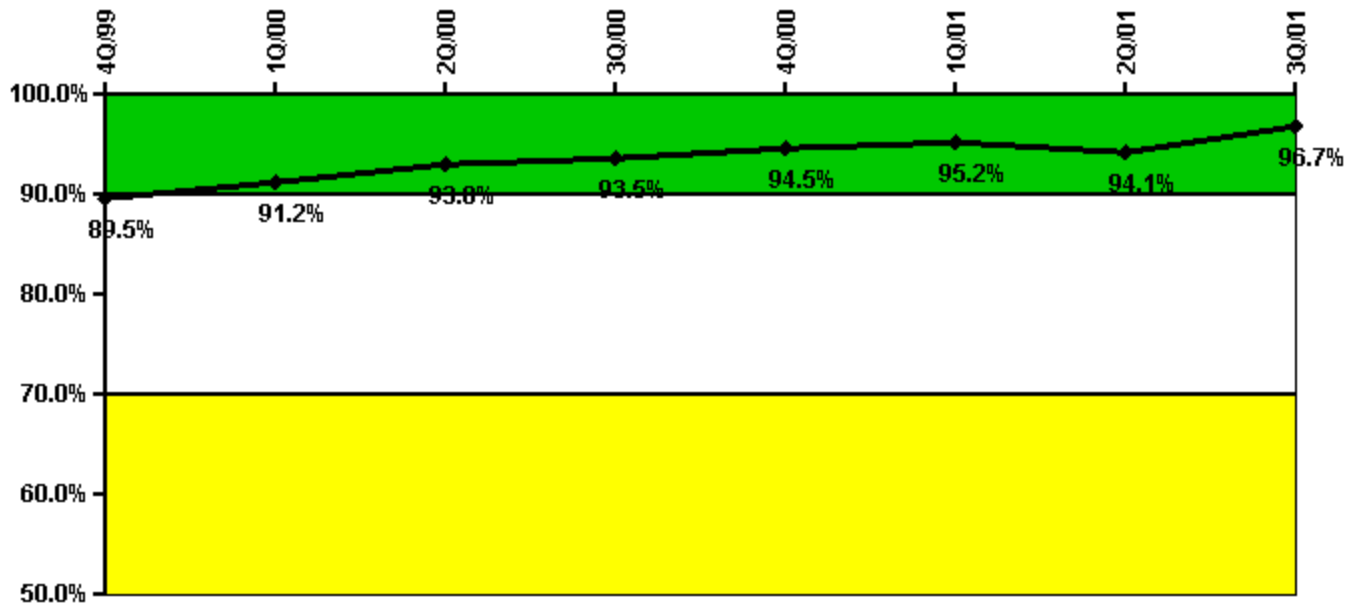
Notes

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	0.300	0.300	0.100	0.100	109.000	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	3.0	3.0	1.0	1.0	1090.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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	N/A	N/A	0	0.100	0.100	0.100	0.100	0.100	0.200	0.200	0.200	0.200
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	N/A	N/A	0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

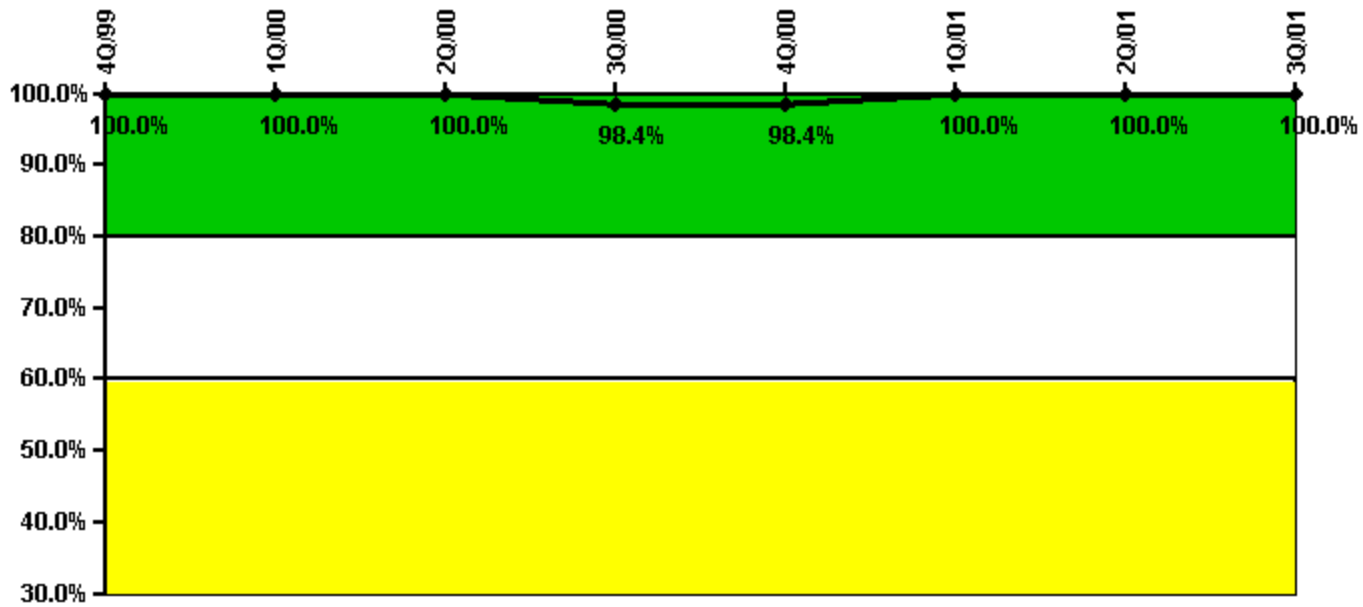
Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Successful opportunities	28.0	29.0	30.0	9.0	13.0	28.0	15.0	26.0
Total opportunities	28.0	30.0	30.0	9.0	14.0	29.0	18.0	26.0
Indicator value	89.5%	91.2%	93.0%	93.5%	94.5%	95.2%	94.1%	96.7%

Licensee Comments:

3Q/01: Reported on 10/3/01 for Q3/2001 as 8 opportunities and 8 successes. The revised information increases the Q3/2001 report quantities by 18 to a total of 26 in each category as they were conducted in the 3rd Quarter, 2001 and not reported at that time. There was no effect on the color of the indicator previously reported using the original data.

ERO Drill Participation



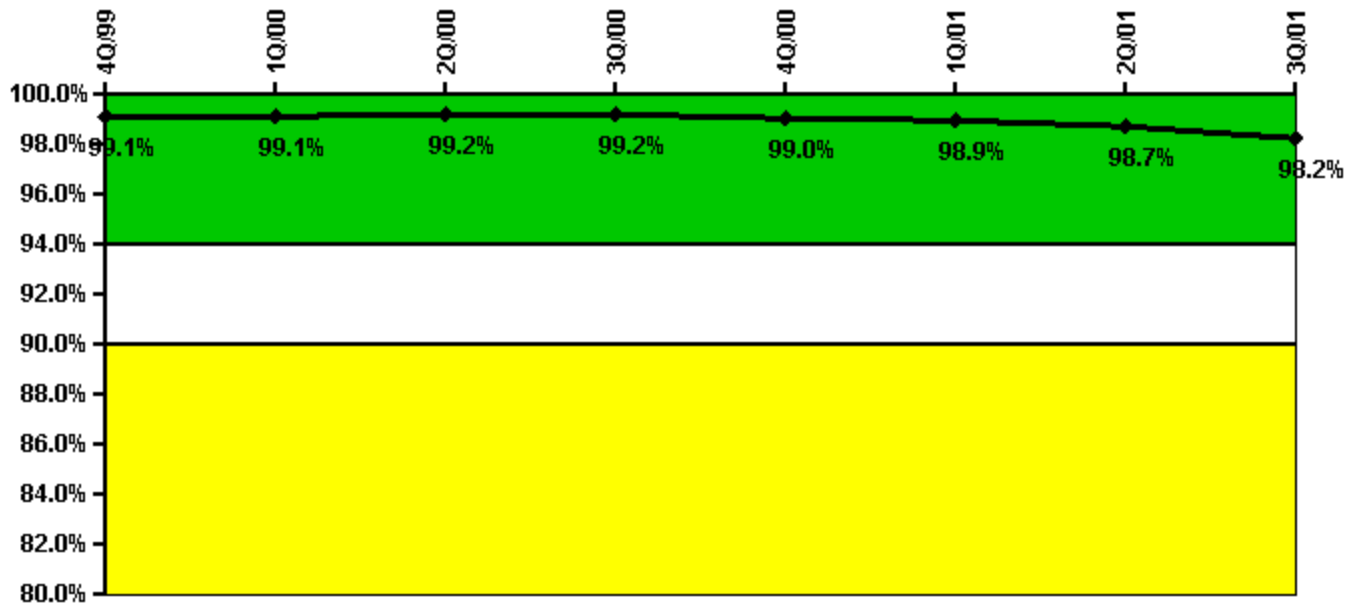
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Participating Key personnel	63.0	62.0	67.0	63.0	62.0	48.0	48.0	45.0
Total Key personnel	63.0	62.0	67.0	64.0	63.0	48.0	48.0	45.0
Indicator value	100.0%	100.0%	100.0%	98.4%	98.4%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



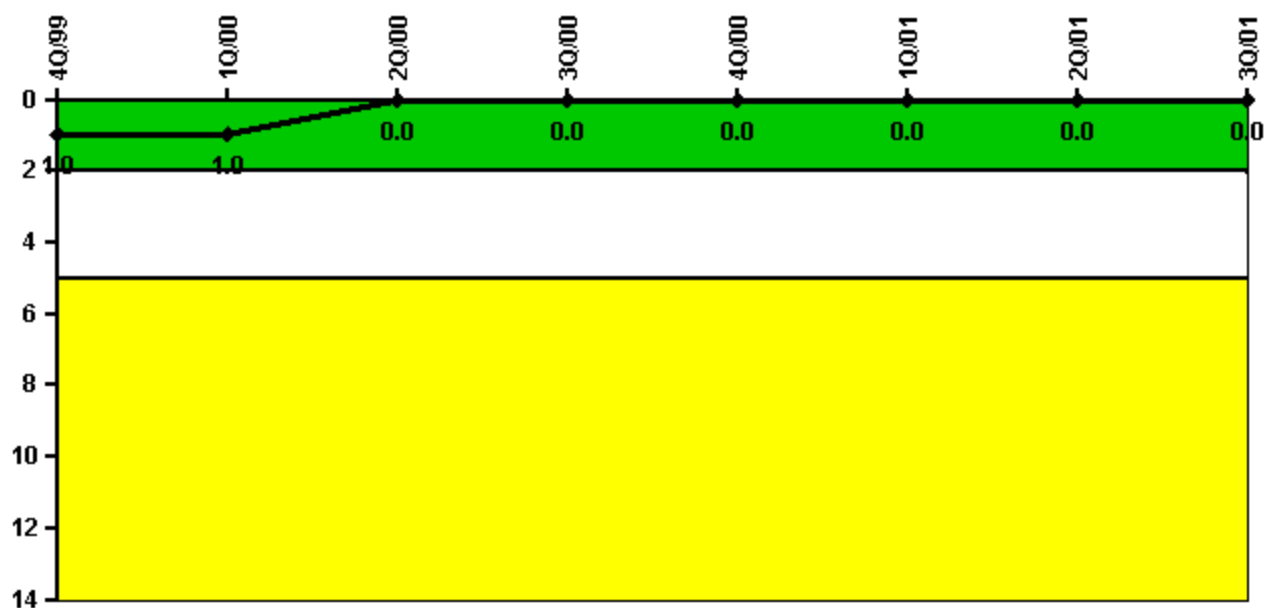
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Successful siren-tests	1217	920	1225	914	906	1069	1062	997
Total sirens-tests	1232	924	1232	924	924	1078	1078	1029
Indicator value	99.1%	99.1%	99.2%	99.2%	99.0%	98.9%	98.7%	98.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness



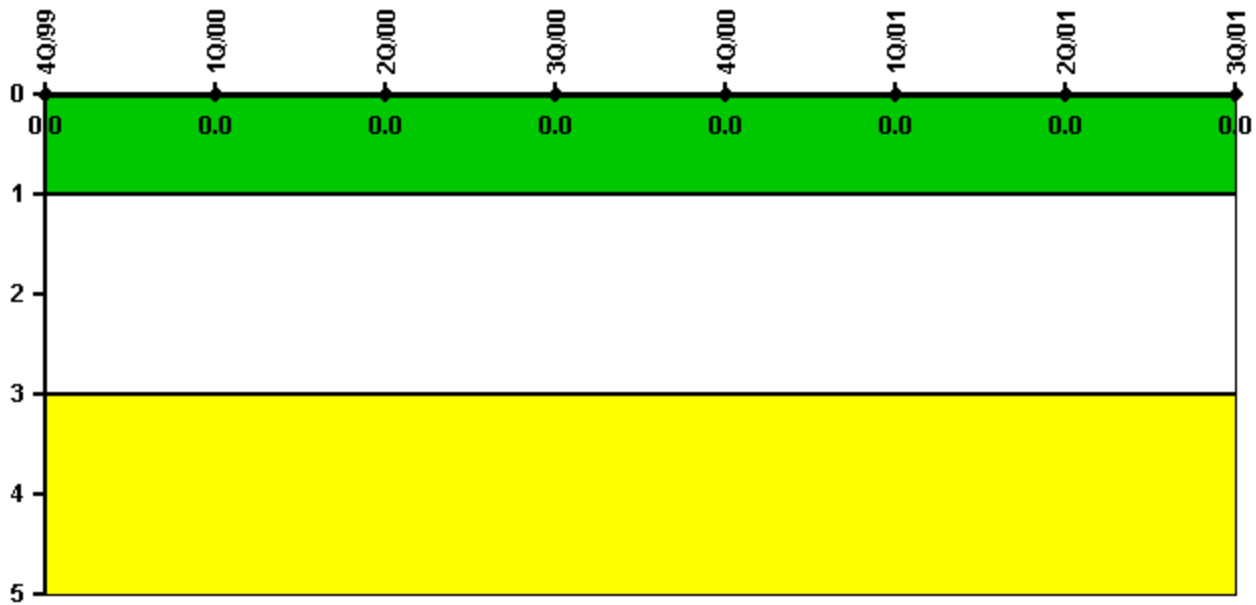
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



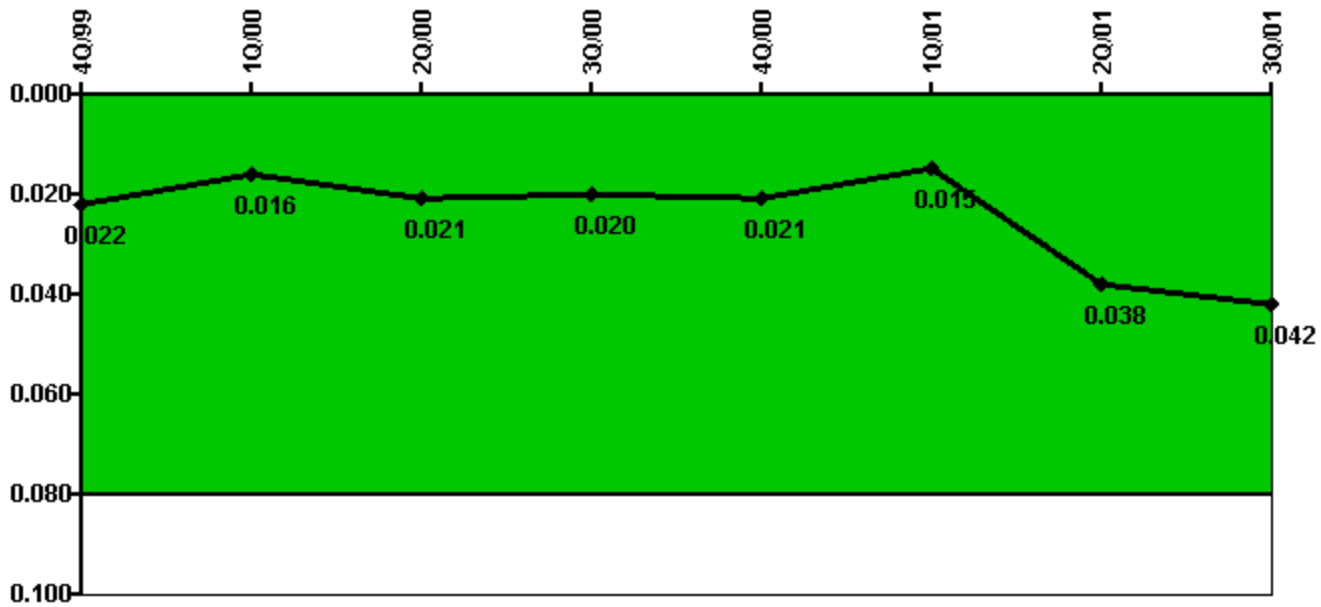
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



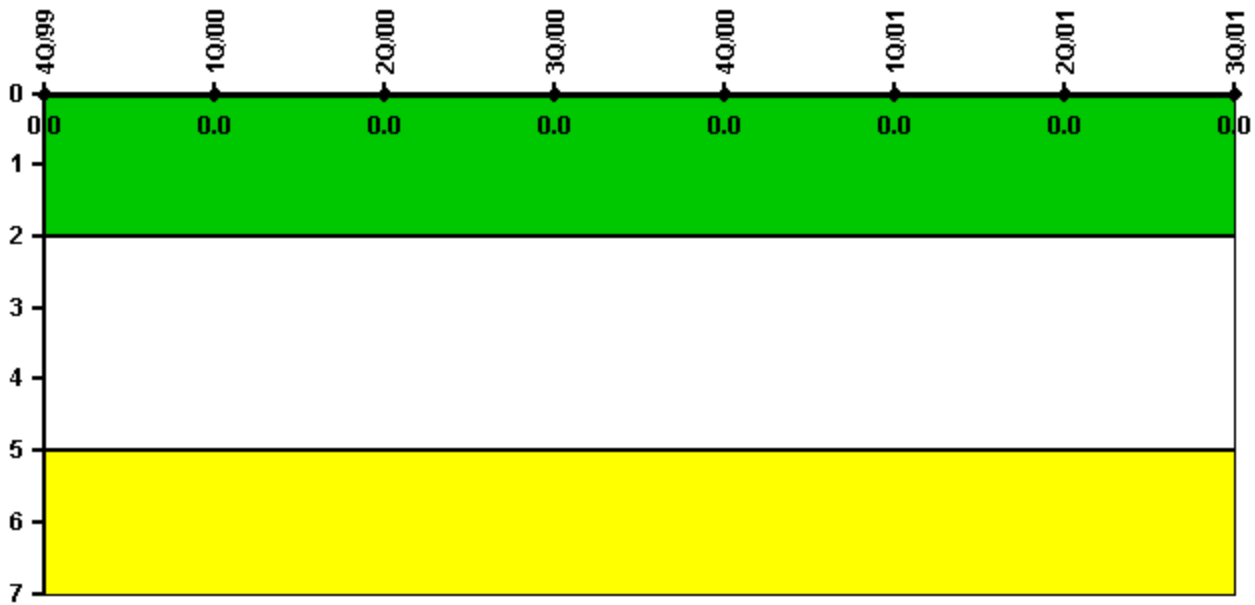
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
IDS compensatory hours	10.25	0	90.82	41.35	75.92	7.49	238.12	114.83
CCTV compensatory hours	56.5	135.7	0.6	26.7	6.3	21.0	285.2	25.8
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	0.022	0.016	0.021	0.020	0.021	0.015	0.038	0.042

Licensee Comments: none

Personnel Screening Program



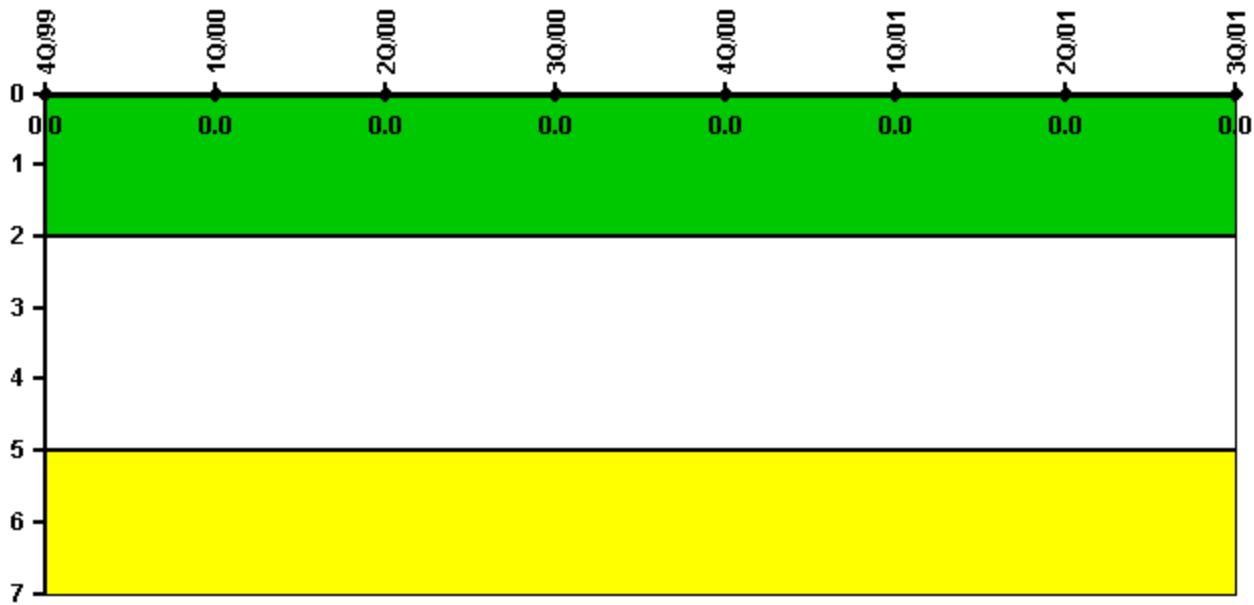
Thresholds: White > 2.0 Yellow > 5.0

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](#)

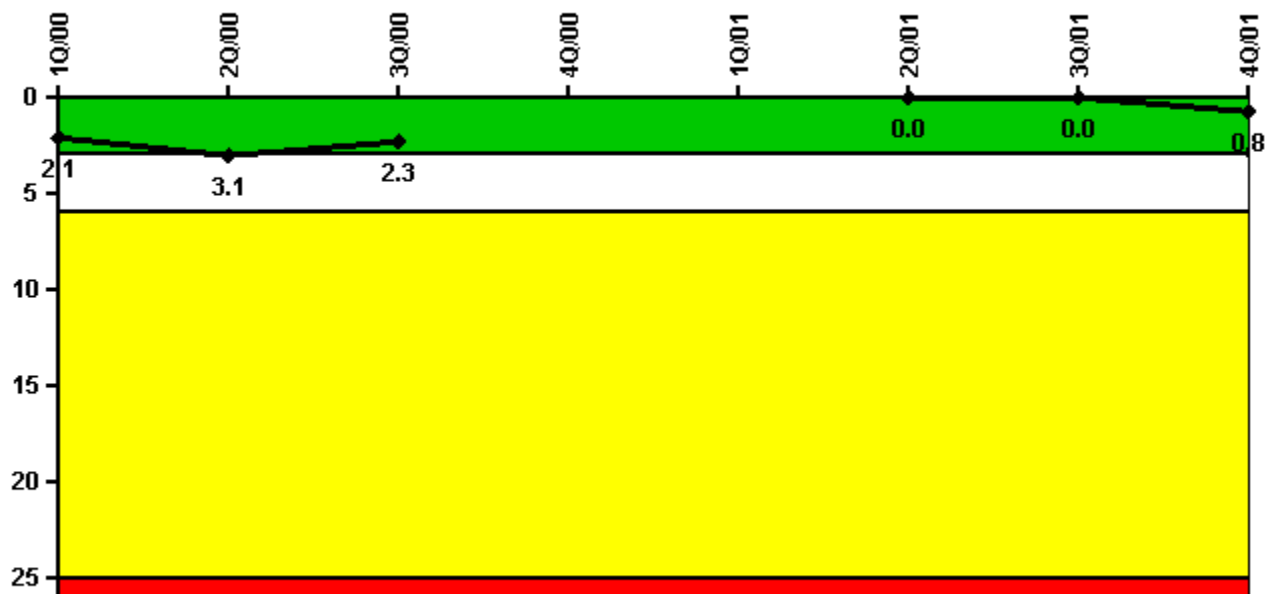
Last Modified: March 26, 2002

Indian Point 2

4Q/2001 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



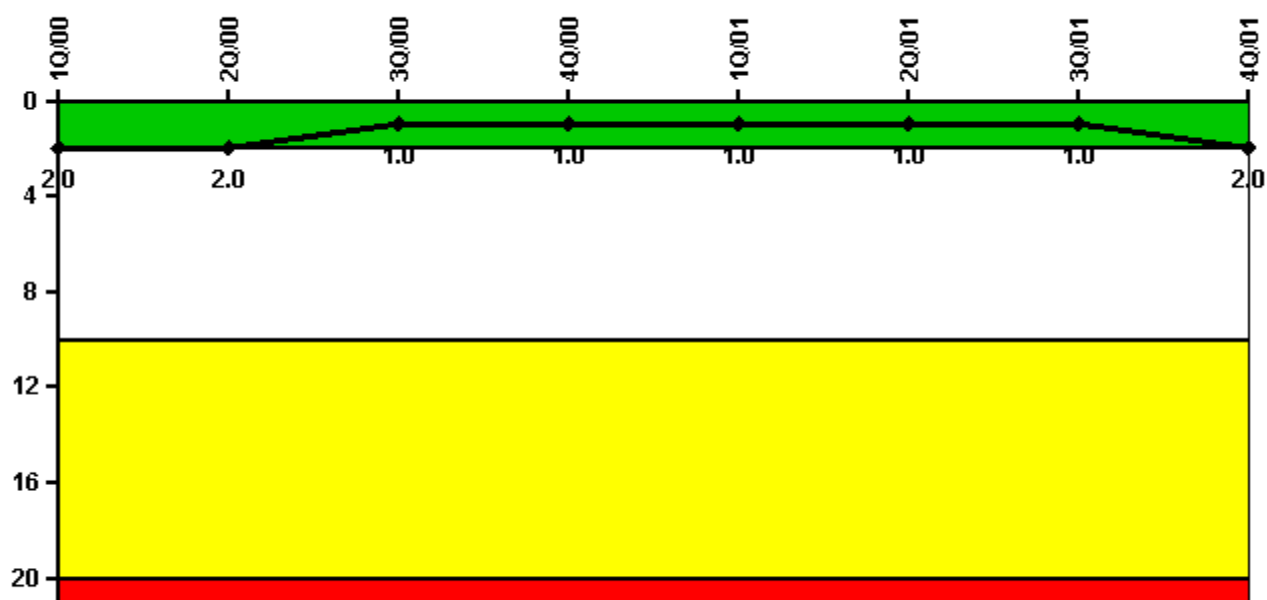
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned scrams	1.0	0	0	0	0	0	0	1.0
Critical hours	1099.5	0	0	44.2	2160.0	2183.0	2208.0	1963.0
Indicator value	2.1	3.1	2.3	N/A	N/A	0	0	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



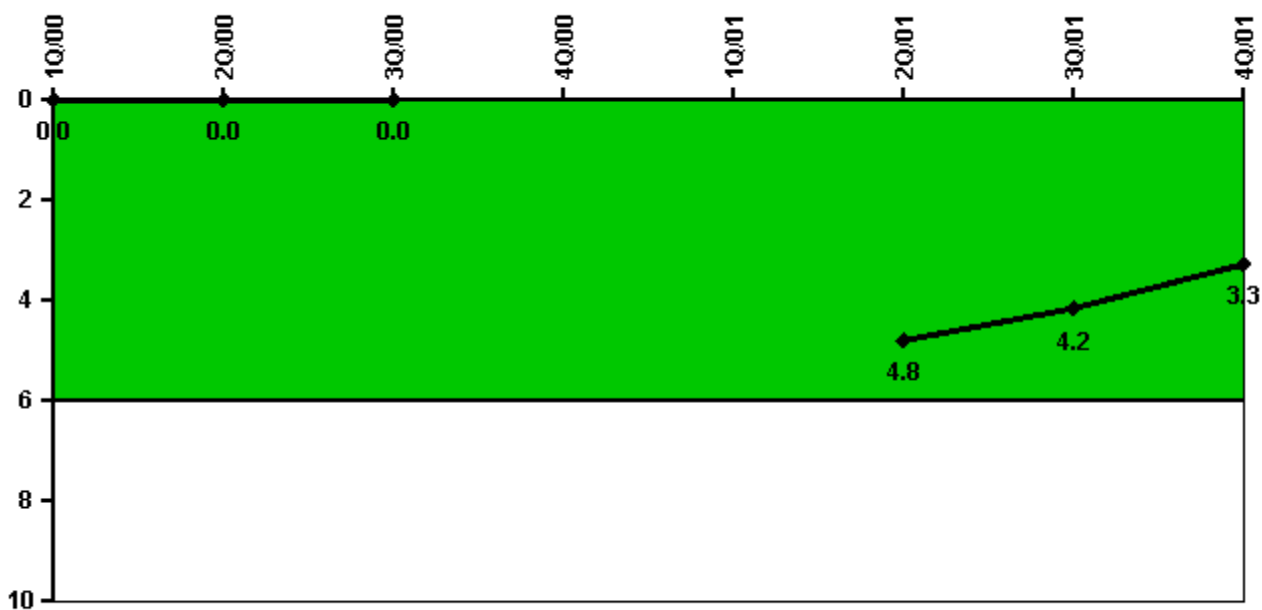
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



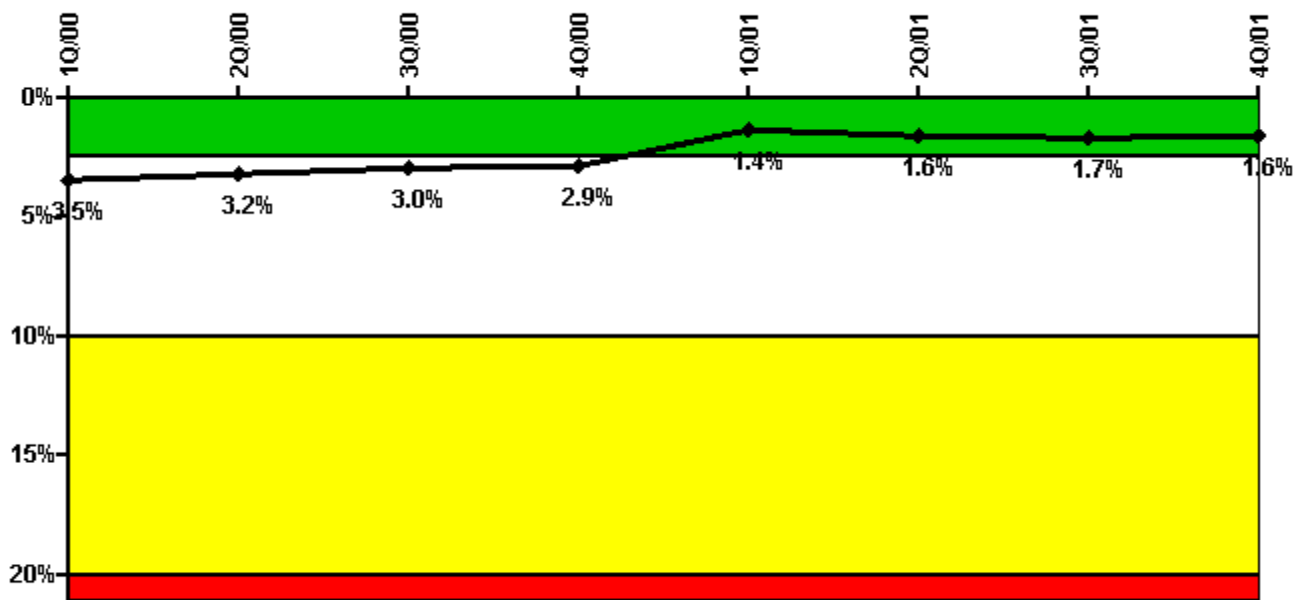
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned power changes	0	0	0	0	2.0	1.0	1.0	0
Critical hours	1099.5	0	0	44.2	2160.0	2183.0	2208.0	1963.0
Indicator value	0	0	0	N/A	N/A	4.8	4.2	3.3

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	2.12	0	0	0	7.30	111.65	8.80	0
Unplanned unavailable hours	0	0	0	0	0.80	32.93	0	0
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	2184.00	2208.00	2208.00	2160.00	2183.00	2208.00	2208.00
Train 2								
Planned unavailable hours	51.14	0	0	0	125.87	9.92	51.58	0
Unplanned unavailable hours	0	0	0	0	0.63	1.03	0	10.20
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2184.00	2208.00	2208.00	2160.00	2183.00	2208.00	2208.00
Train 3								
Planned unavailable hours	3.81	0	0	0	81.62	28.93	86.63	0
Unplanned unavailable hours	0	0	0	0	0.88	29.03	0	4.85
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	1443.93	0	0	0
Required hours	2184.00	2184.00	2208.00	2208.00	2160.00	2183.00	2208.00	2208.00
Indicator value	3.5%	3.2%	3.0%	2.9%	1.4%	1.6%	1.7%	1.6%

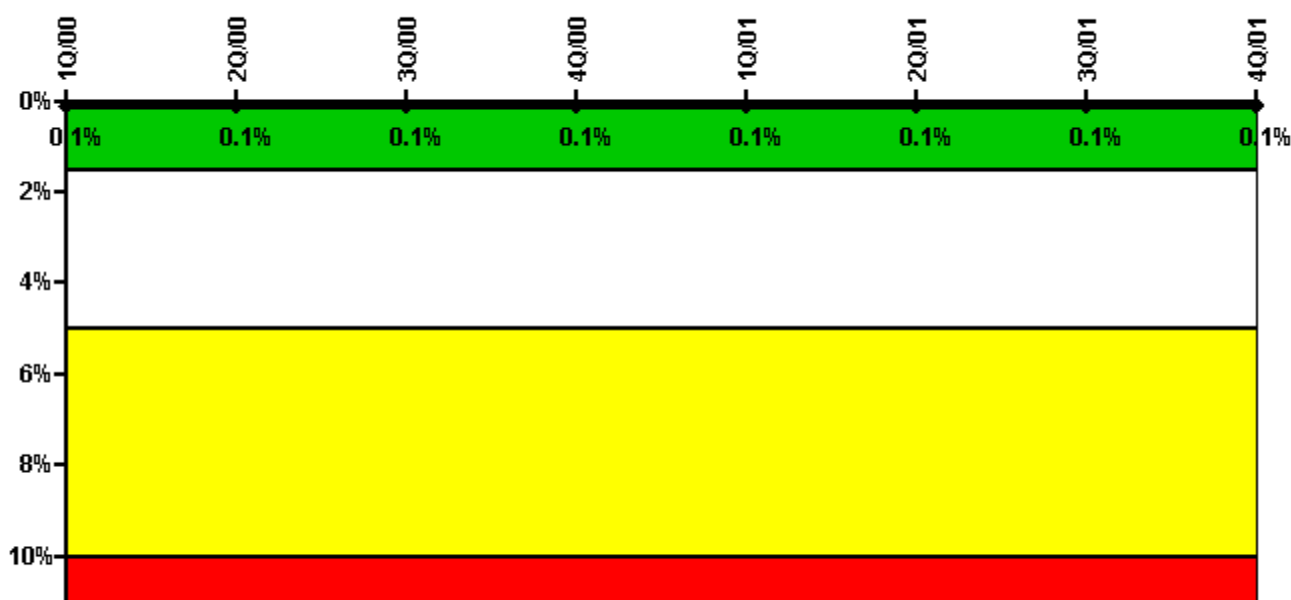
Licensee Comments:

3Q/99: Fault Exposure Hours Reset per NEI, "Supplemental Guidance for Fault Exposure Hour Reset", December 6, 2001

Effective Reset Comments:

1Q/01: Fault Exposure Hours Reset per NEI, "Supplemental Guidance for Fault Exposure Hour Reset," December 6, 2001.

Safety System Unavailability, High Pressure Injection System (HPSI)



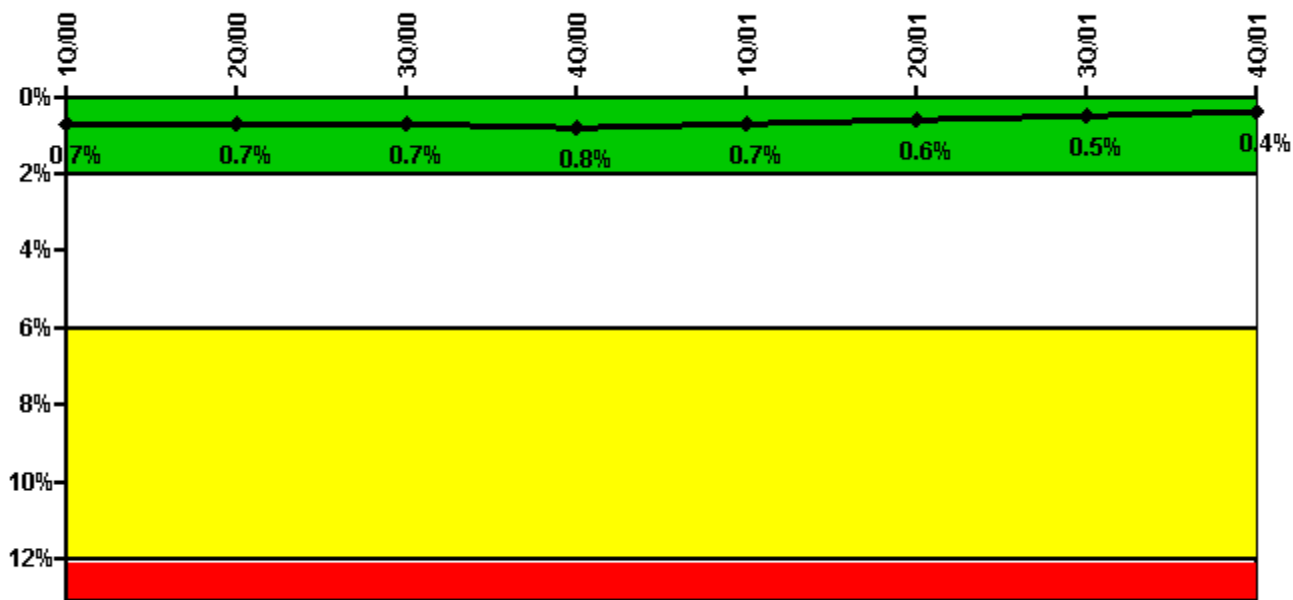
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	3.60	0	0	0	1.00	5.50	1.00	0.23
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1099.50	0	0	44.17	2160.00	2183.00	2208.00	1962.98
Train 2								
Planned unavailable hours	0	0	0	0	6.00	2.53	6.56	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0.17
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1099.50	0	0	44.17	2160.00	2183.00	2208.00	1962.98
Train 3								
Planned unavailable hours	0	0	0	0	4.00	0.40	3.83	0.32
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1099.50	0	0	44.17	2160.00	2183.00	2208.00	1962.98
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



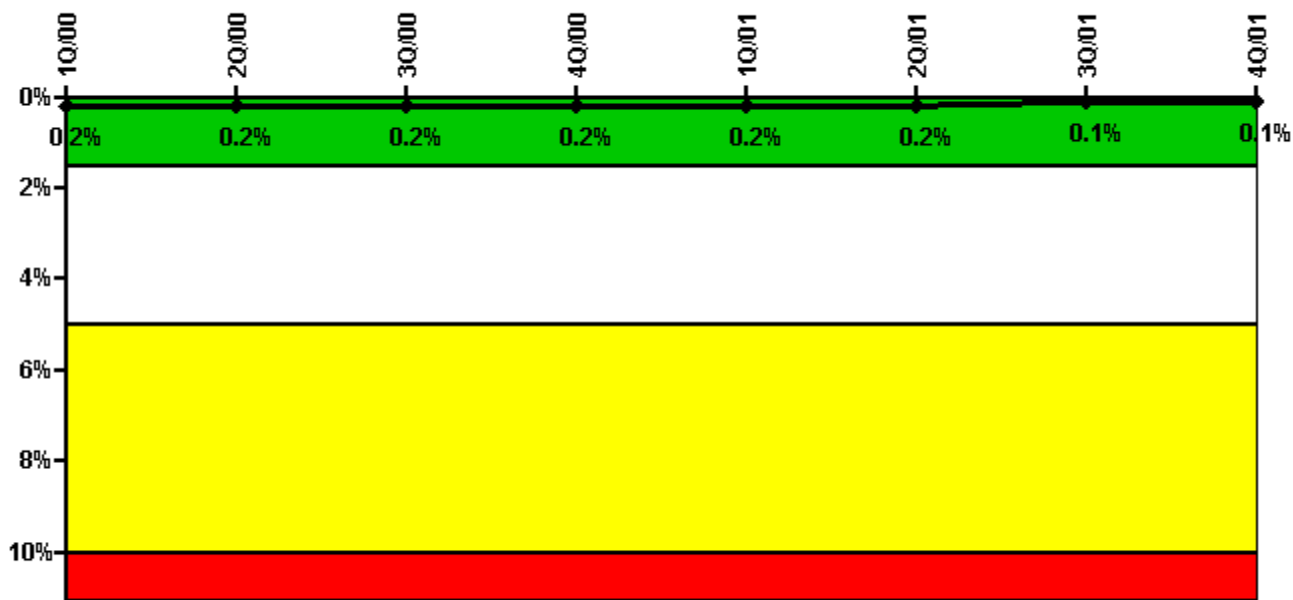
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	0	0	0	0	5.00	5.10	8.50	0
Unplanned unavailable hours	0	0	0	0	0.40	0	0	12.37
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1099.50	0	0	44.17	2160.00	2183.00	2208.00	1962.98
Train 2								
Planned unavailable hours	13.70	0	0	0	5.75	5.80	6.17	0.96
Unplanned unavailable hours	0.30	0	0	0	0.42	0	0	1.65
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1099.50	0	0	44.17	2160.00	2183.00	2208.00	1962.98
Train 3								
Planned unavailable hours	13.00	0	0	0	13.50	2.50	1.30	12.70
Unplanned unavailable hours	0	0	0	0	4.42	3.50	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1099.50	0	0	44.17	2160.00	2183.00	2208.00	1962.98
Indicator value	0.7%	0.7%	0.7%	0.8%	0.7%	0.6%	0.5%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



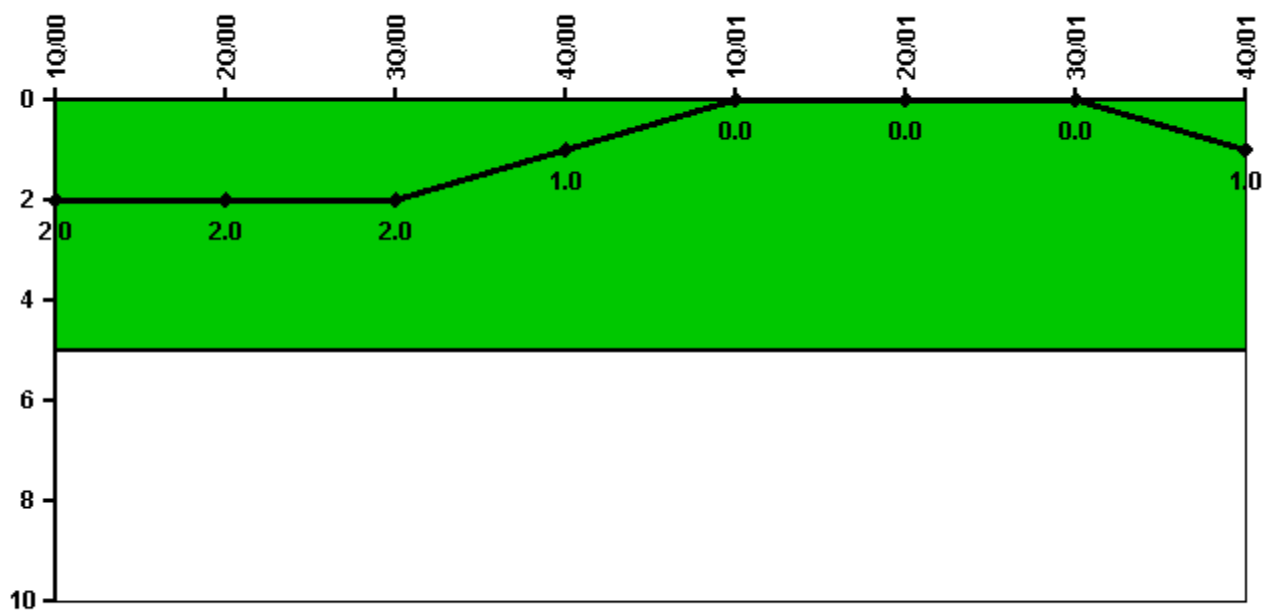
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	0.50	0	0	0	8.00	4.50	0.25	0
Unplanned unavailable hours	0	0	0	0	6.40	0	0	0.17
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	0	1163.00	957.10	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0.50	0	0	0	0	0.50	0.08	0
Unplanned unavailable hours	0	0	0	0	4.50	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	0	1163.00	957.10	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	0	1163.00	957.10	2160.00	2183.00	2208.00	2209.00
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	0	1163.00	957.10	2160.00	2183.00	2208.00	2209.00
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.1%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



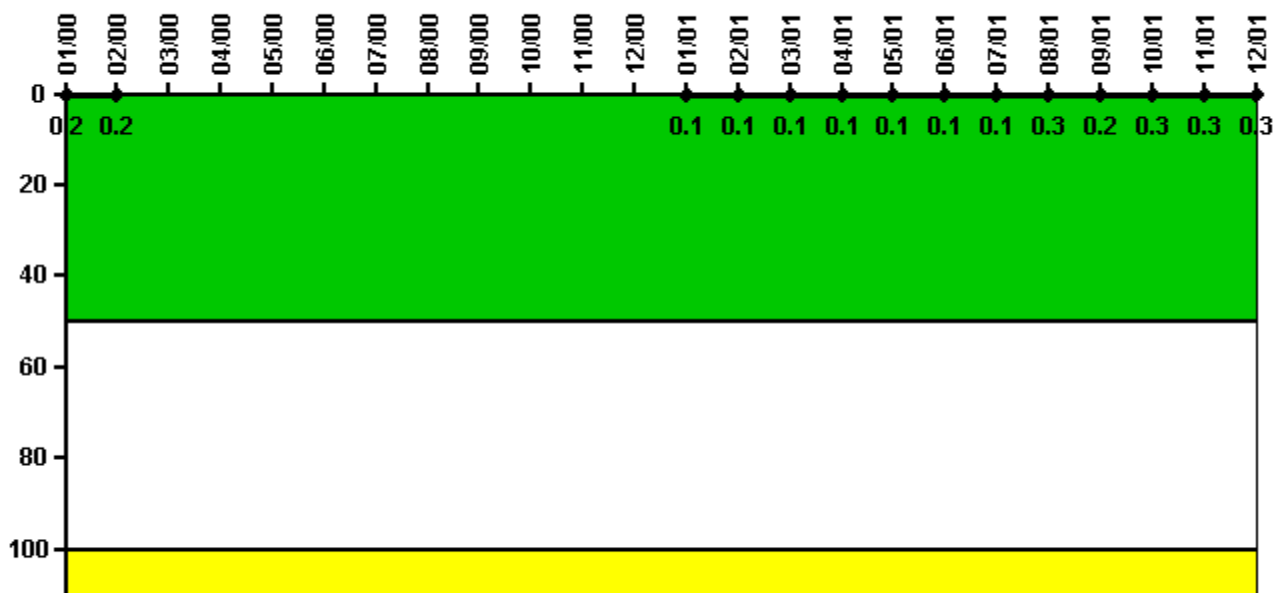
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

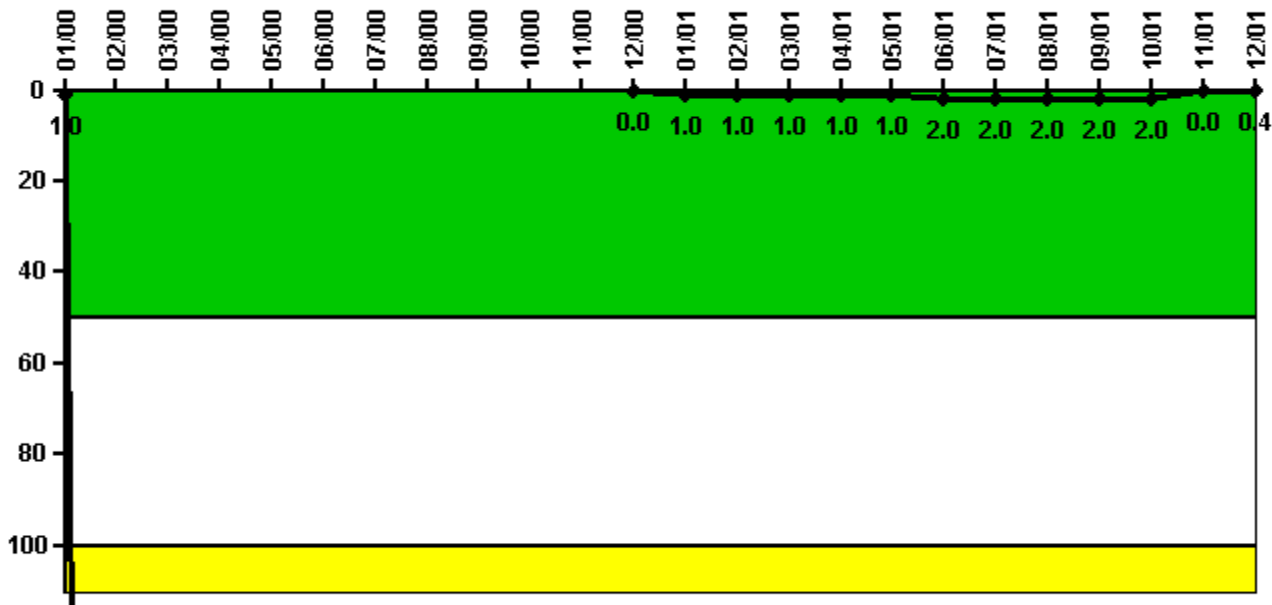
Notes

Reactor Coolant System Activity	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	0.002390	0.002280	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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	0.000600	0.000700	0.000800	0.000770	0.000790	0.001400	0.001100	0.002700	0.001600	0.002500	0.002900	0.003400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.3	0.3	0.3

Licensee Comments: none

Reactor Coolant System Leakage



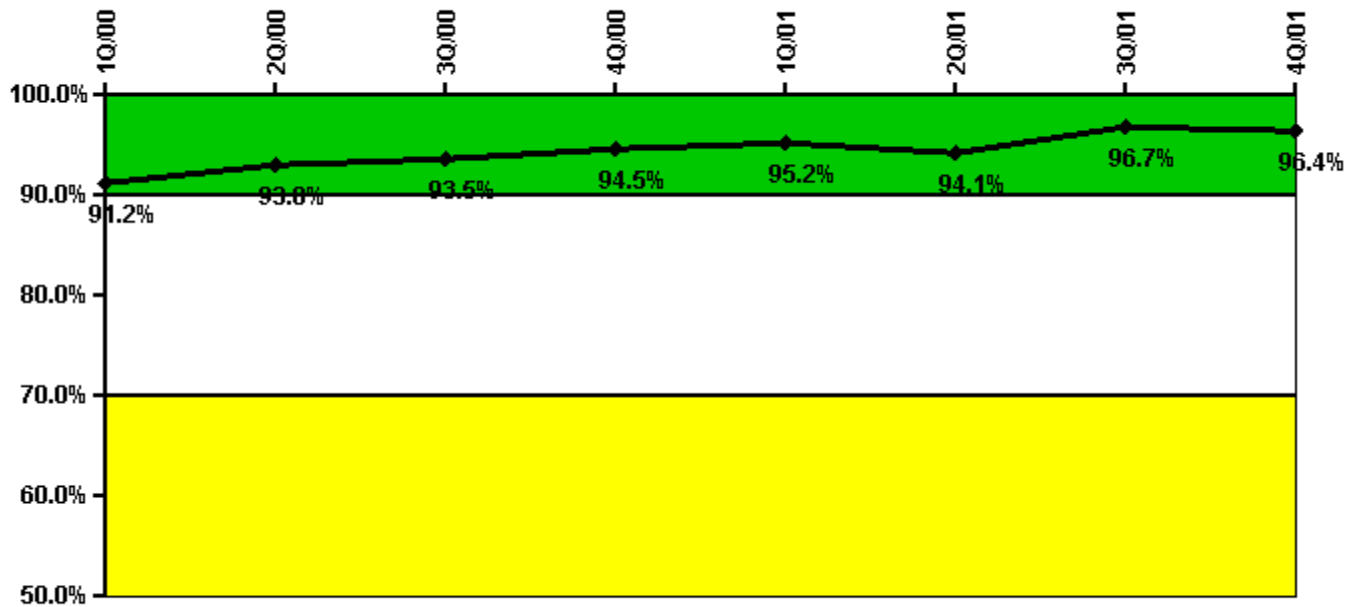
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage	0.100	109.000	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	1.0	1090.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0

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	0.100	0.100	0.100	0.100	0.100	0.200	0.200	0.200	0.200	0.200	0	0.039
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	0	0.4

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

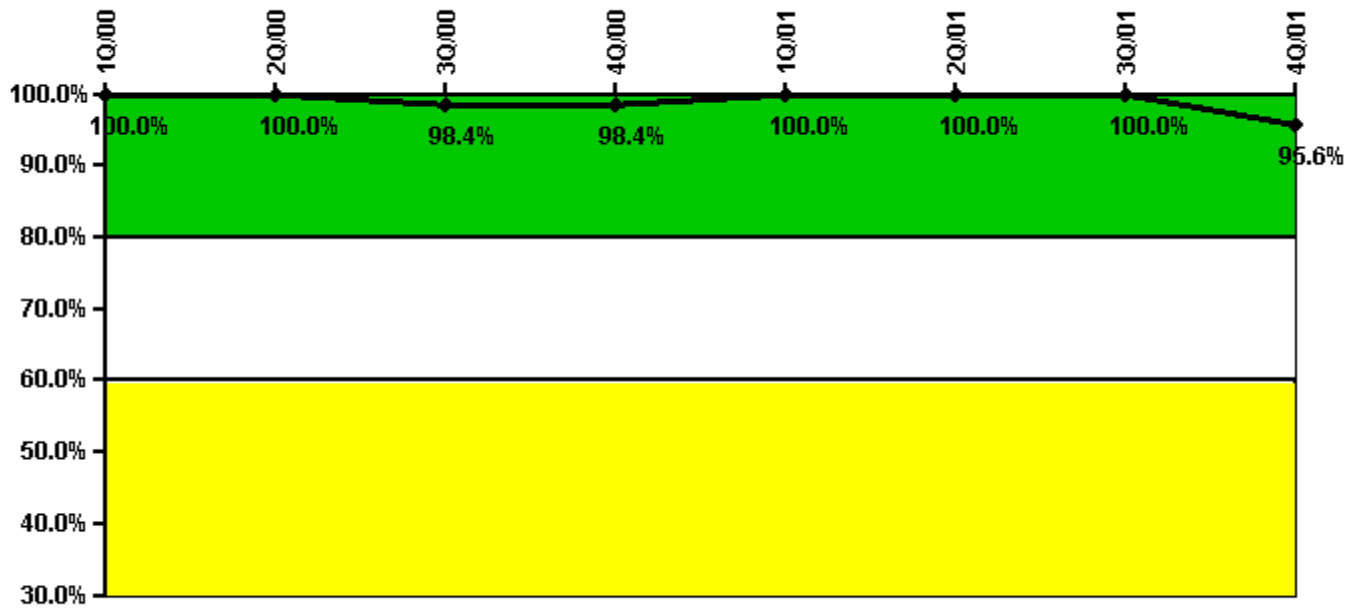
Drill/Exercise Performance	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful opportunities	29.0	30.0	9.0	13.0	28.0	15.0	26.0	10.0
Total opportunities	30.0	30.0	9.0	14.0	29.0	18.0	26.0	10.0
Indicator value	91.2%	93.0%	93.5%	94.5%	95.2%	94.1%	96.7%	96.4%

Licensee Comments:

4Q/01: Reported on 10/3/01 for Q3/2001 as 8 opportunities and 8 successes. The revised information increases the Q3/2001 report quantities by 18 to a total of 26 in each category as they were conducted in the 3rd Quarter, 2001 and not reported at that time. There was no effect on the color of the indicator previously reported using the original data.

3Q/01: Reported on 10/3/01 for Q3/2001 as 8 opportunities and 8 successes. The revised information increases the Q3/2001 report quantities by 18 to a total of 26 in each category as they were conducted in the 3rd Quarter, 2001 and not reported at that time. There was no effect on the color of the indicator previously reported using the original data.

ERO Drill Participation



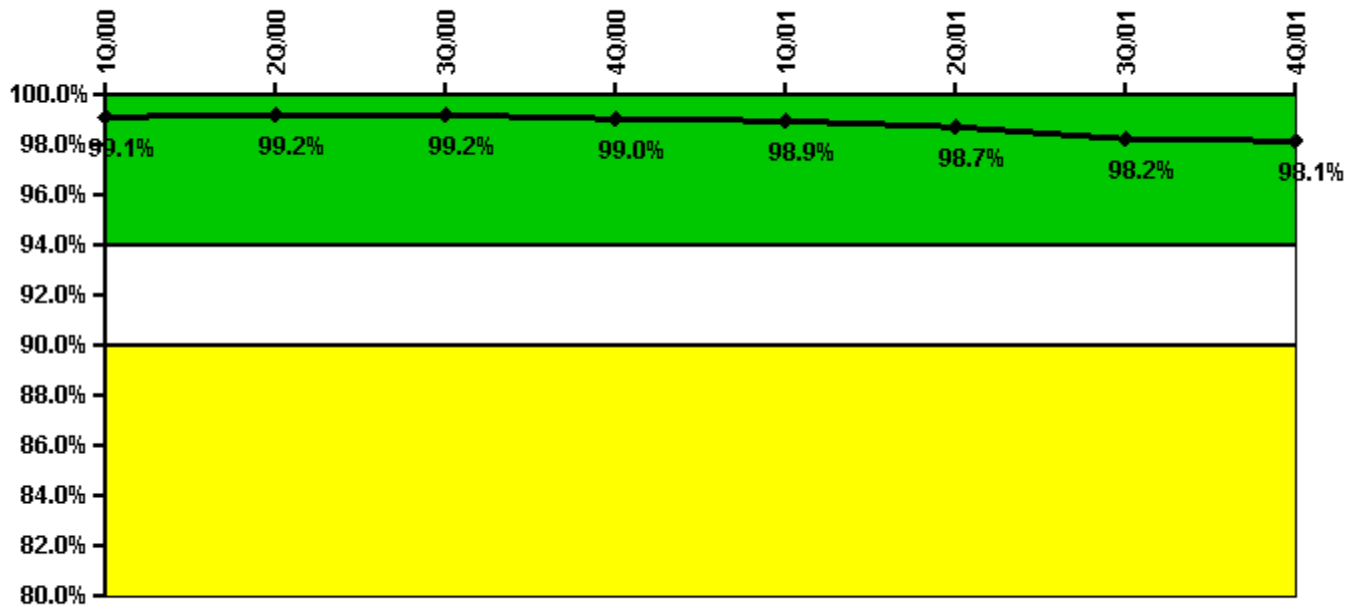
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Participating Key personnel	62.0	67.0	63.0	62.0	48.0	48.0	45.0	43.0
Total Key personnel	62.0	67.0	64.0	63.0	48.0	48.0	45.0	45.0
Indicator value	100.0%	100.0%	98.4%	98.4%	100.0%	100.0%	100.0%	95.6%

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	920	1225	914	906	1069	1062	997	1197
Total sirens-tests	924	1232	924	924	1078	1078	1029	1222
Indicator value	99.1%	99.2%	99.2%	99.0%	98.9%	98.7%	98.2%	98.1%

Licensee Comments: none

Occupational Exposure Control Effectiveness

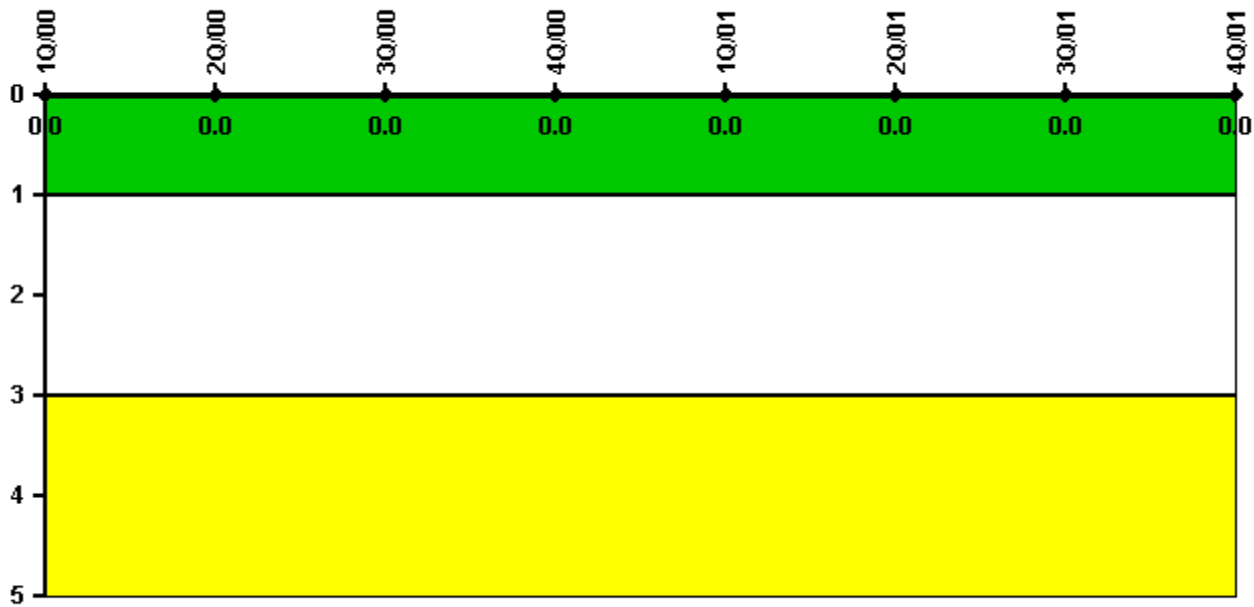


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

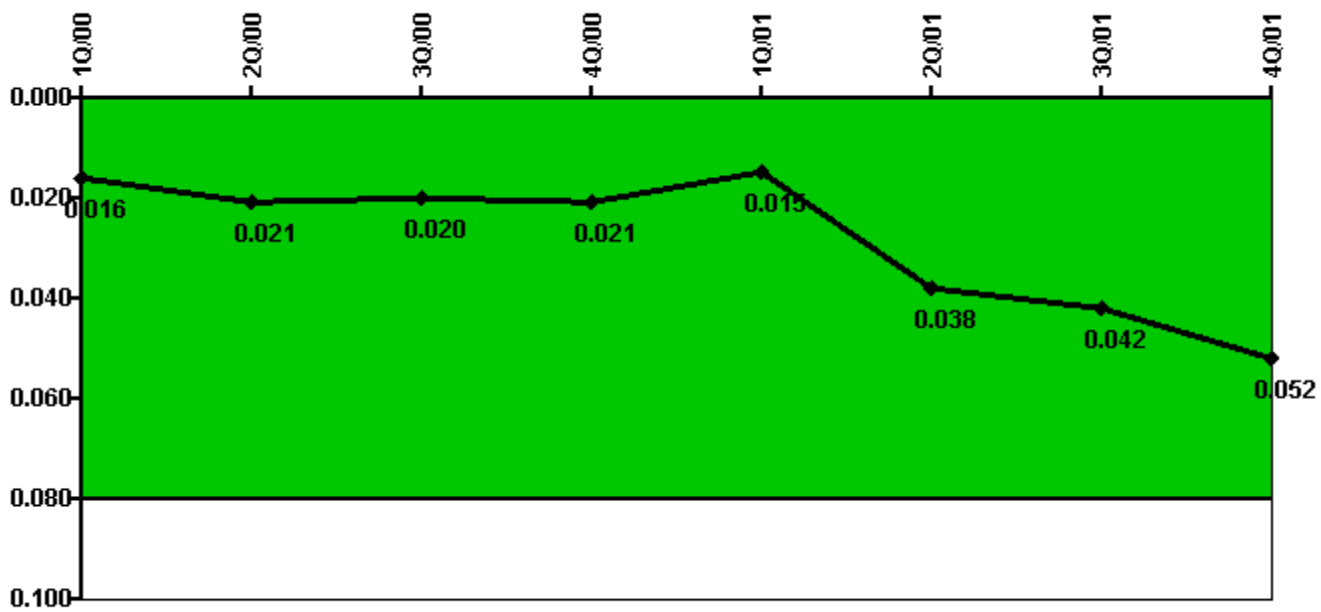
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



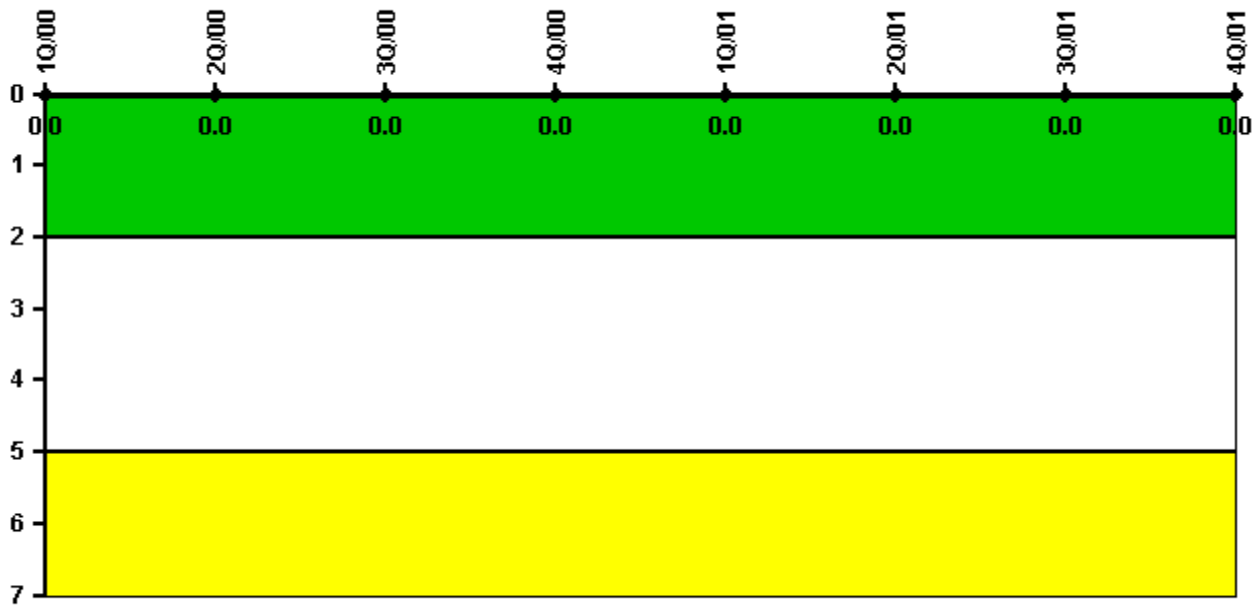
Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
IDS compensatory hours	0	90.82	41.35	75.92	7.49	238.12	114.83	47.93
CCTV compensatory hours	135.7	0.6	26.7	6.3	21.0	285.2	25.8	219.3
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	0.016	0.021	0.020	0.021	0.015	0.038	0.042	0.052

Licensee Comments: none

Personnel Screening Program

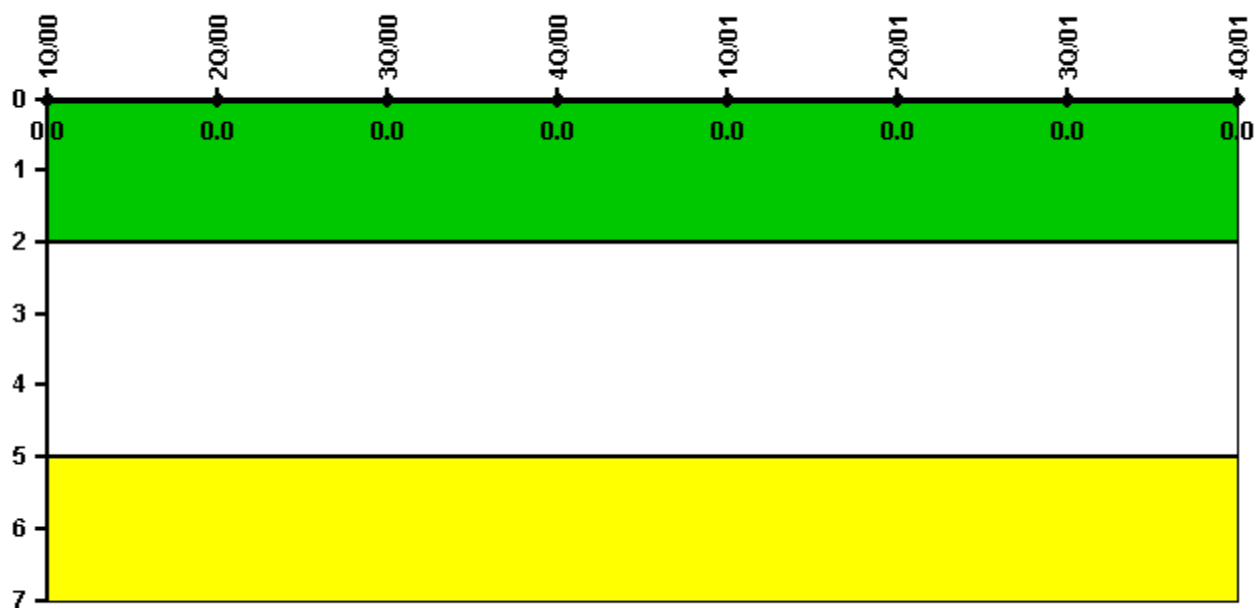


Thresholds: White > 2.0 Yellow > 5.0

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

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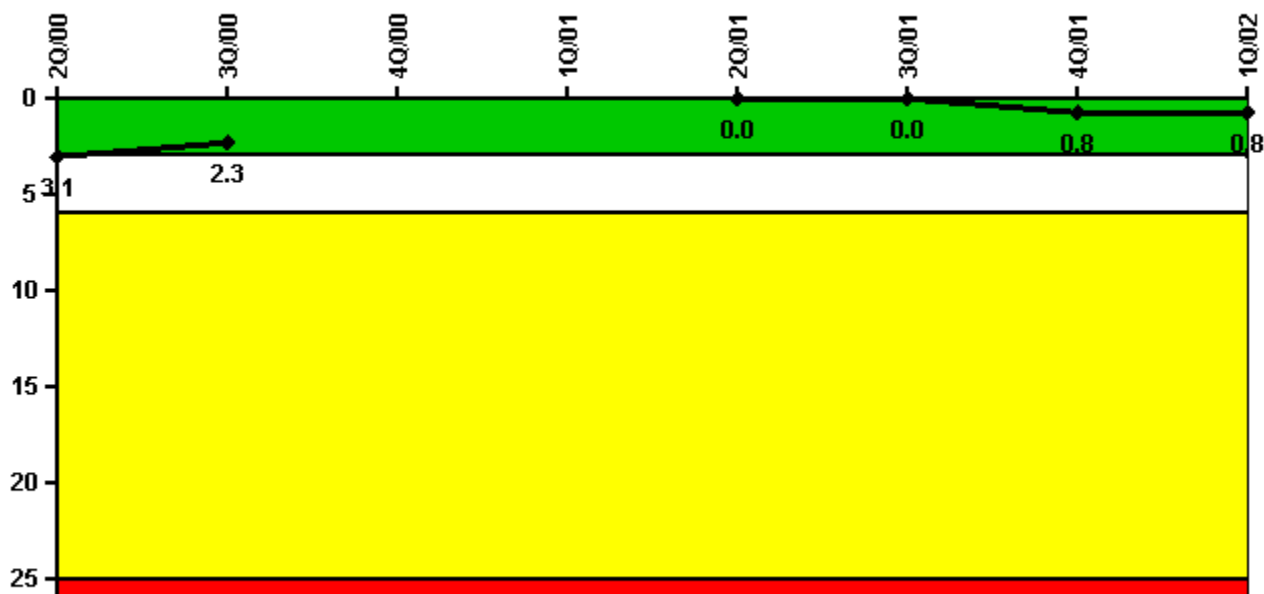
Last Modified: March 15, 2002

Indian Point 2

1Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



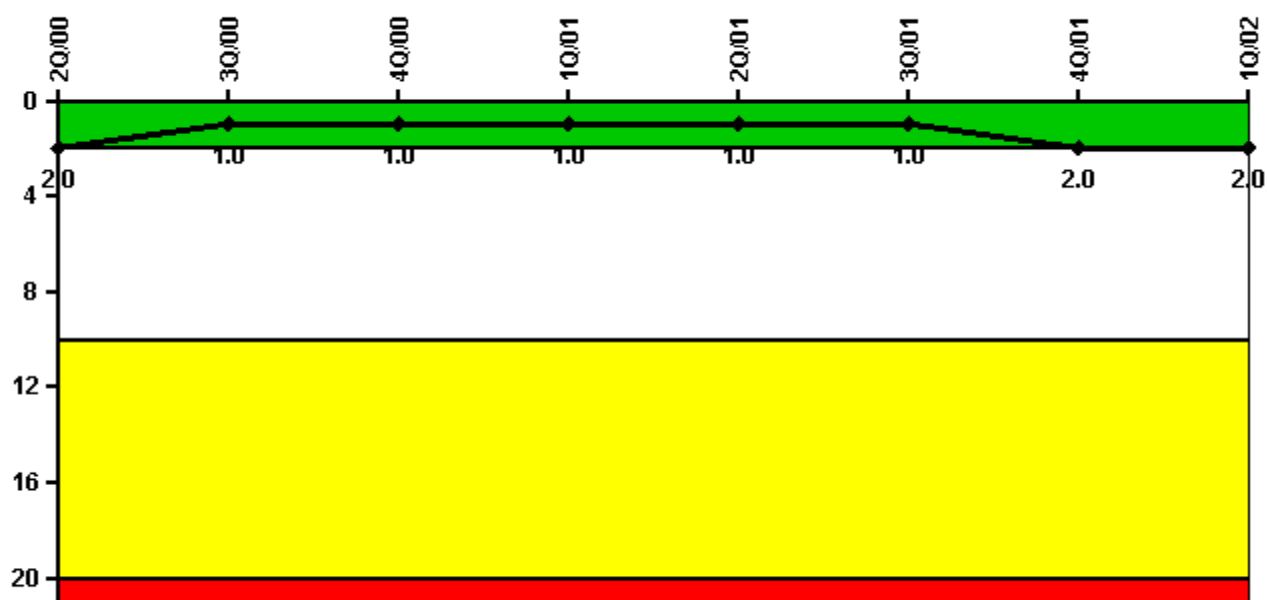
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	0	0	44.2	2160.0	2183.0	2208.0	1963.0	2160.0
Indicator value	3.1	2.3	N/A	N/A	0	0	0.8	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



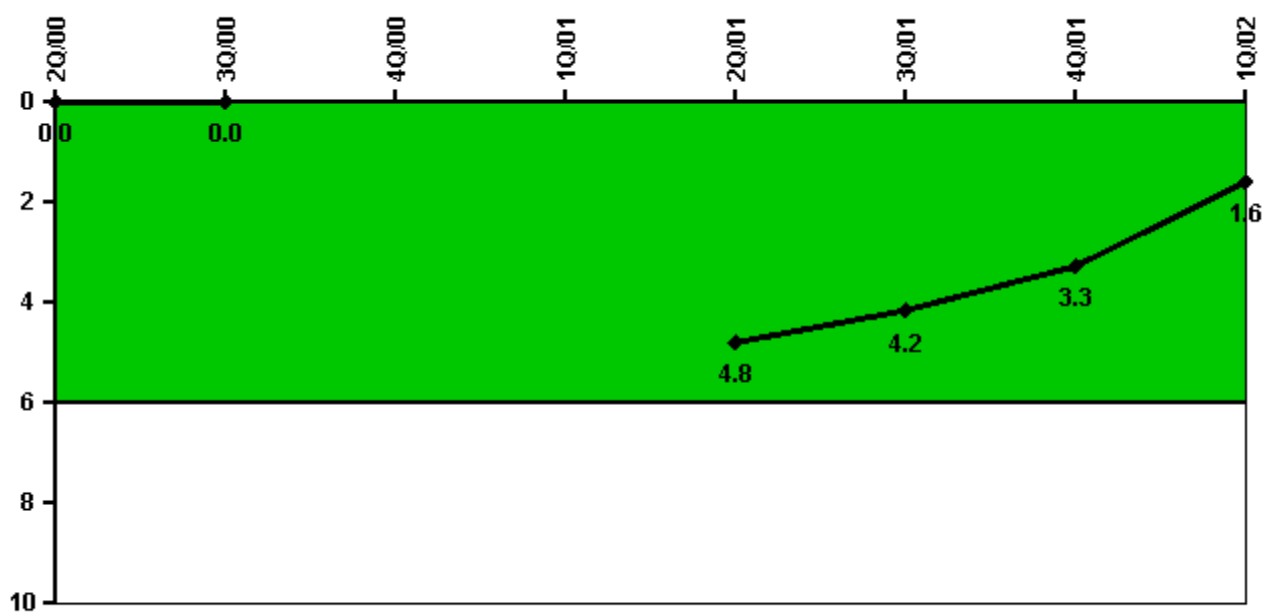
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Scrams	0	0	0	0	0	0	1.0	0
Indicator value	2.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



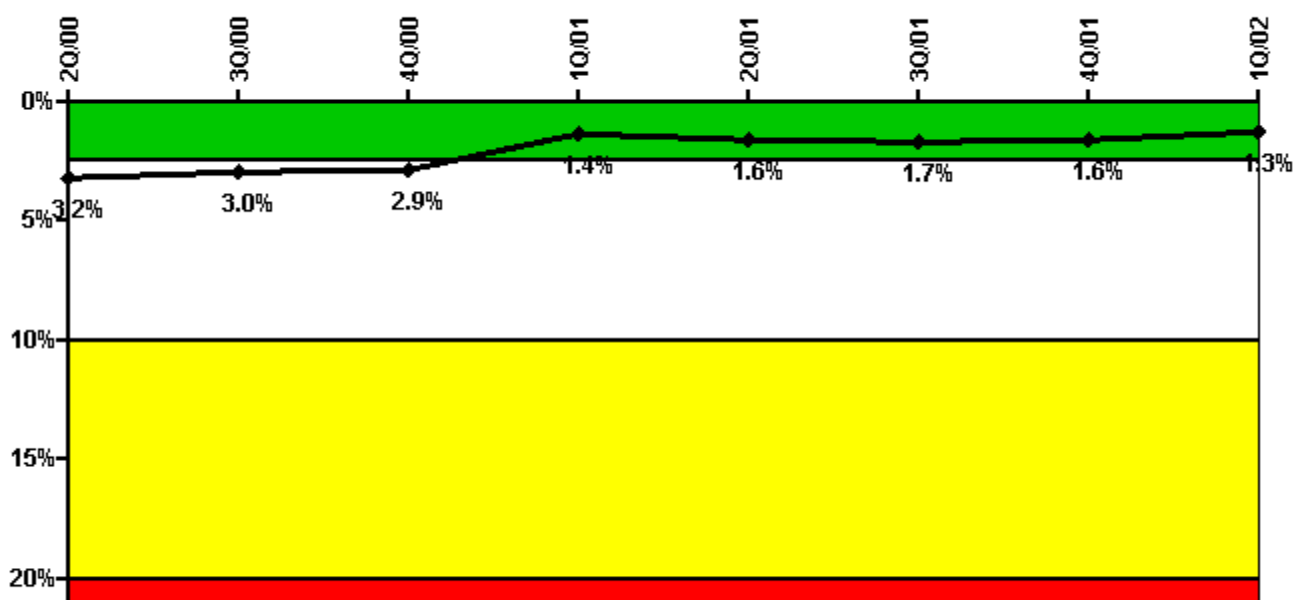
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned power changes	0	0	0	2.0	1.0	1.0	0	0
Critical hours	0	0	44.2	2160.0	2183.0	2208.0	1963.0	2160.0
Indicator value	0	0	N/A	N/A	4.8	4.2	3.3	1.6

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

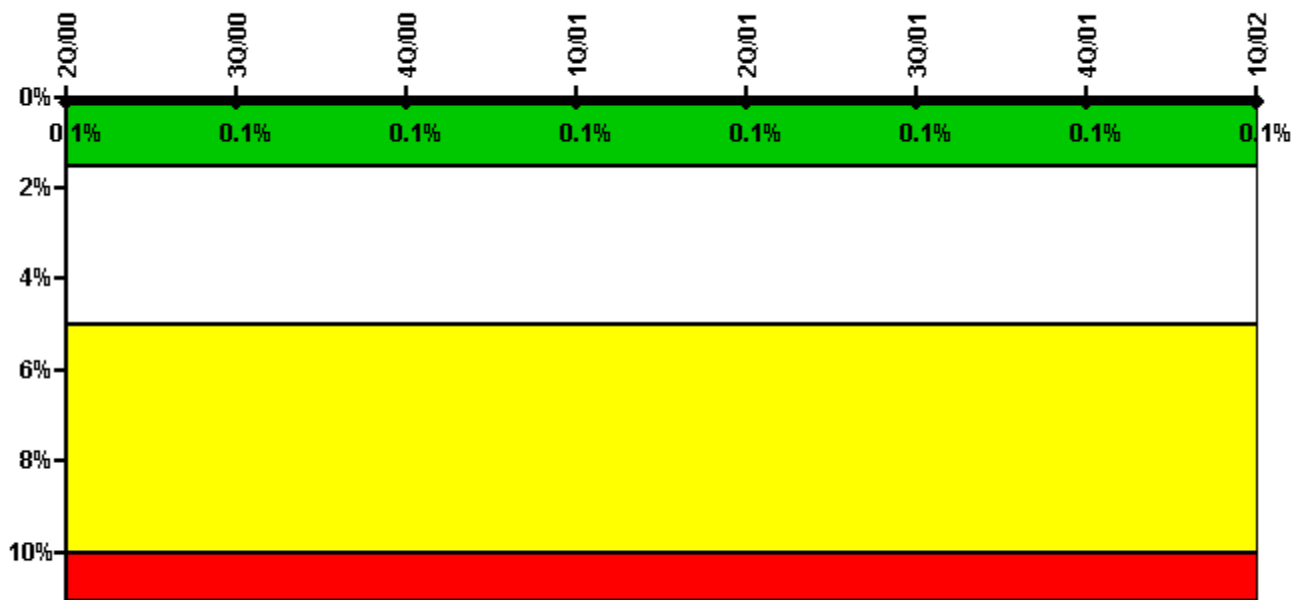
Notes

Safety System Unavailability, Emergency AC Power, >2EDG	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	0	0	0	7.30	111.65	8.80	0	0
Unplanned unavailable hours	0	0	0	0.80	32.93	0	0	0.08
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	2208.00	2208.00	2160.00	2183.00	2208.00	2208.00	2160.00
Train 2								
Planned unavailable hours	0	0	0	125.87	9.92	51.58	0	34.80
Unplanned unavailable hours	0	0	0	0.63	1.03	0	10.20	18.67
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	2208.00	2208.00	2160.00	2183.00	2208.00	2208.00	2160.00
Train 3								
Planned unavailable hours	0	0	0	81.62	28.93	86.63	0	39.72
Unplanned unavailable hours	0	0	0	0.88	29.03	0	4.85	23.08
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	1443.93	0	0	0	0
Required hours	2184.00	2208.00	2208.00	2160.00	2183.00	2208.00	2208.00	2160.00
Indicator value	3.2%	3.0%	2.9%	1.4%	1.6%	1.7%	1.6%	1.3%

Licensee Comments:

1Q/02: Engineering assessment ongoing for determining 23 EDG Governor failure mode and effect, if any, on fault exposure hours.

Safety System Unavailability, High Pressure Injection System (HPSI)



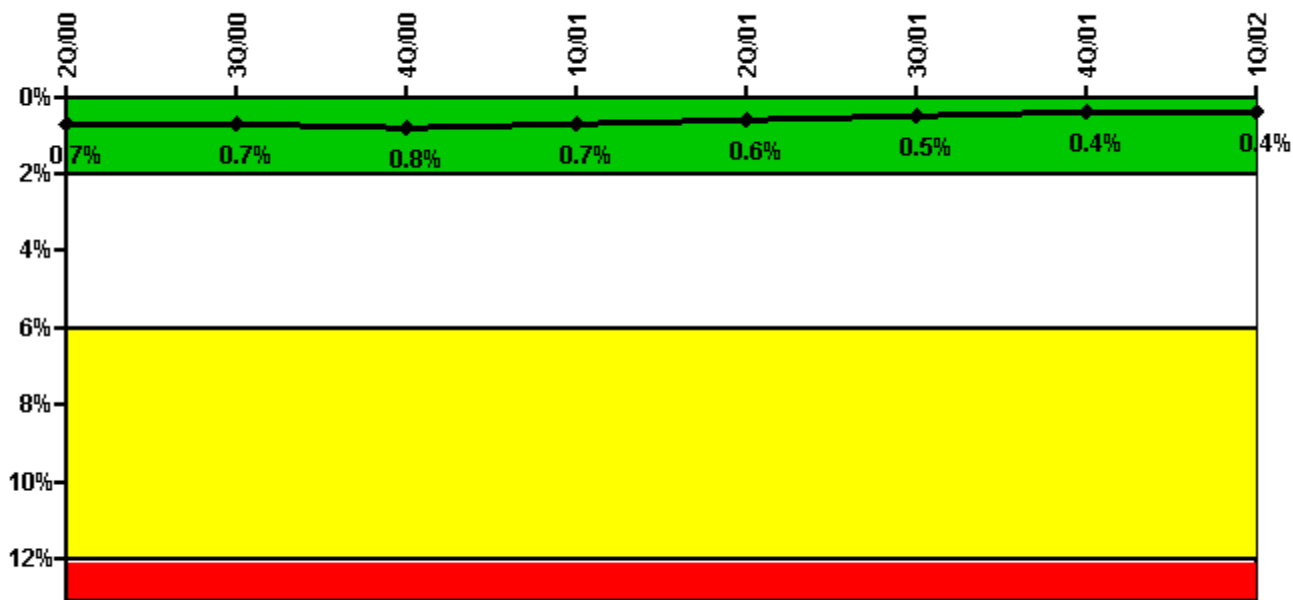
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	0	0	0	1.00	5.50	1.00	0.23	0.68
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	44.17	2160.00	2183.00	2208.00	1962.98	2160.00
Train 2								
Planned unavailable hours	0	0	0	6.00	2.53	6.56	0	0.28
Unplanned unavailable hours	0	0	0	0	0	0	0.17	0
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	44.17	2160.00	2183.00	2208.00	1962.98	2160.00
Train 3								
Planned unavailable hours	0	0	0	4.00	0.40	3.83	0.32	0.41
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	44.17	2160.00	2183.00	2208.00	1962.98	2160.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



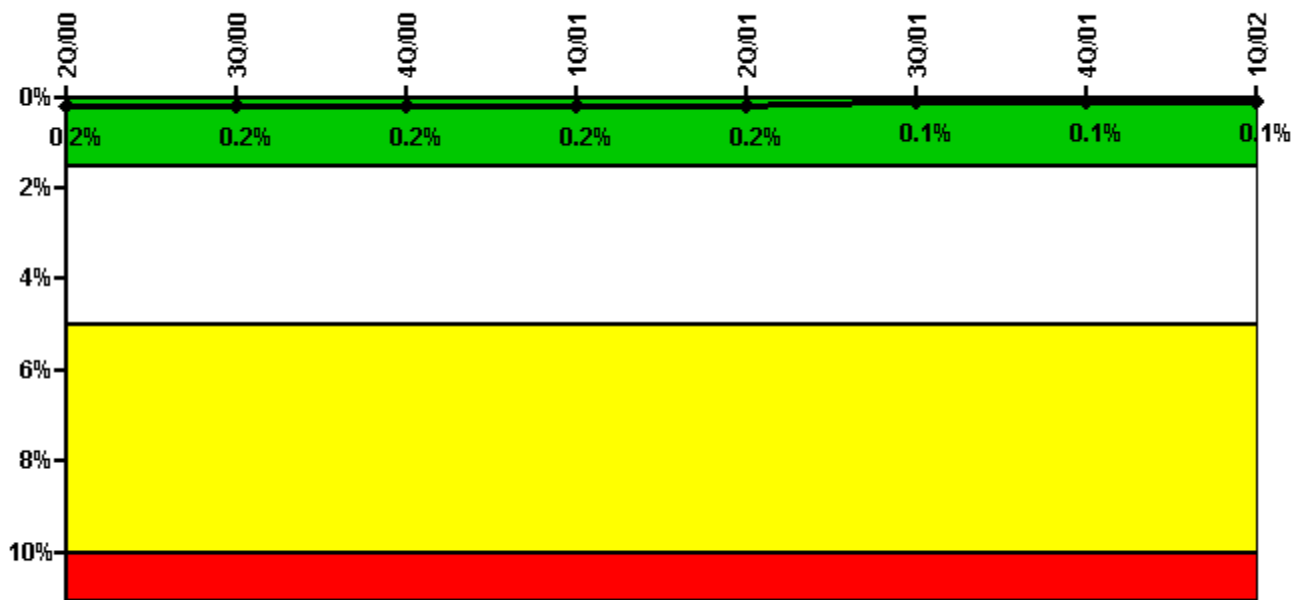
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	0	0	0	5.00	5.10	8.50	0	0.71
Unplanned unavailable hours	0	0	0	0.40	0	0	12.37	33.75
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	44.17	2160.00	2183.00	2208.00	1962.98	2160.00
Train 2								
Planned unavailable hours	0	0	0	5.75	5.80	6.17	0.96	2.38
Unplanned unavailable hours	0	0	0	0.42	0	0	1.65	0
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	44.17	2160.00	2183.00	2208.00	1962.98	2160.00
Train 3								
Planned unavailable hours	0	0	0	13.50	2.50	1.30	12.70	0.33
Unplanned unavailable hours	0	0	0	4.42	3.50	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	44.17	2160.00	2183.00	2208.00	1962.98	2160.00
Indicator value	0.7%	0.7%	0.8%	0.7%	0.6%	0.5%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



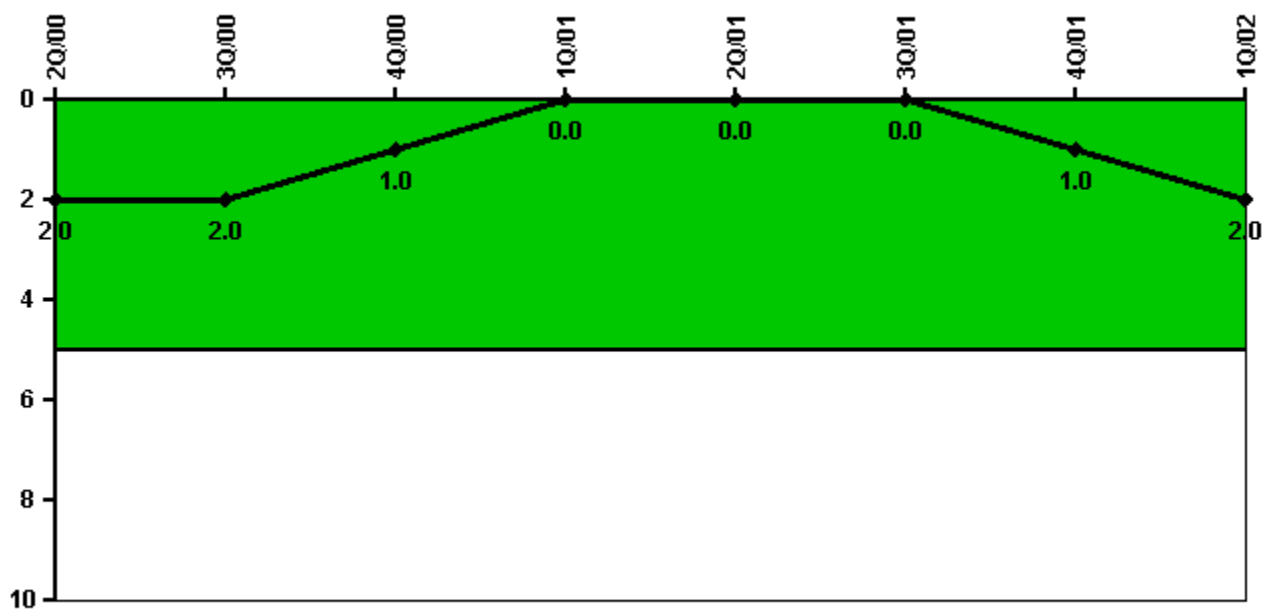
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	0	0	0	8.00	4.50	0.25	0	0.45
Unplanned unavailable hours	0	0	0	6.40	0	0	0.17	0
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	1163.00	957.10	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	0	0	0	0	0.50	0.08	0	0.86
Unplanned unavailable hours	0	0	0	4.50	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	1163.00	957.10	2160.00	2183.00	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
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	1163.00	957.10	2160.00	2183.00	2208.00	2209.00	2160.00
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	1163.00	957.10	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	0.2%	0.2%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



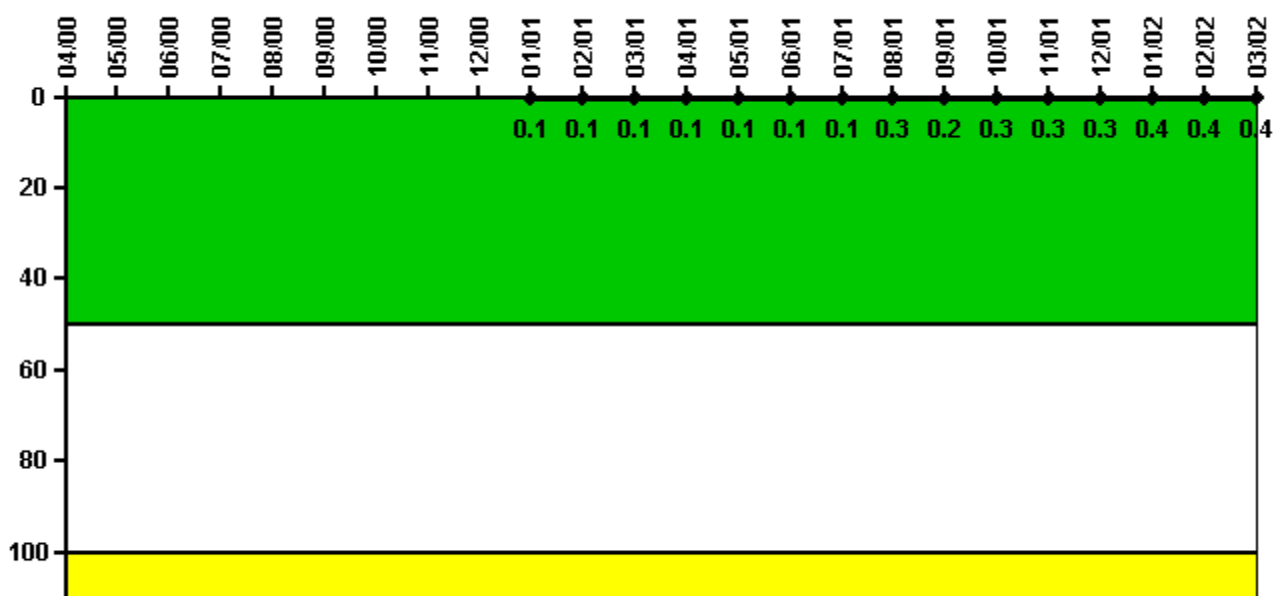
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

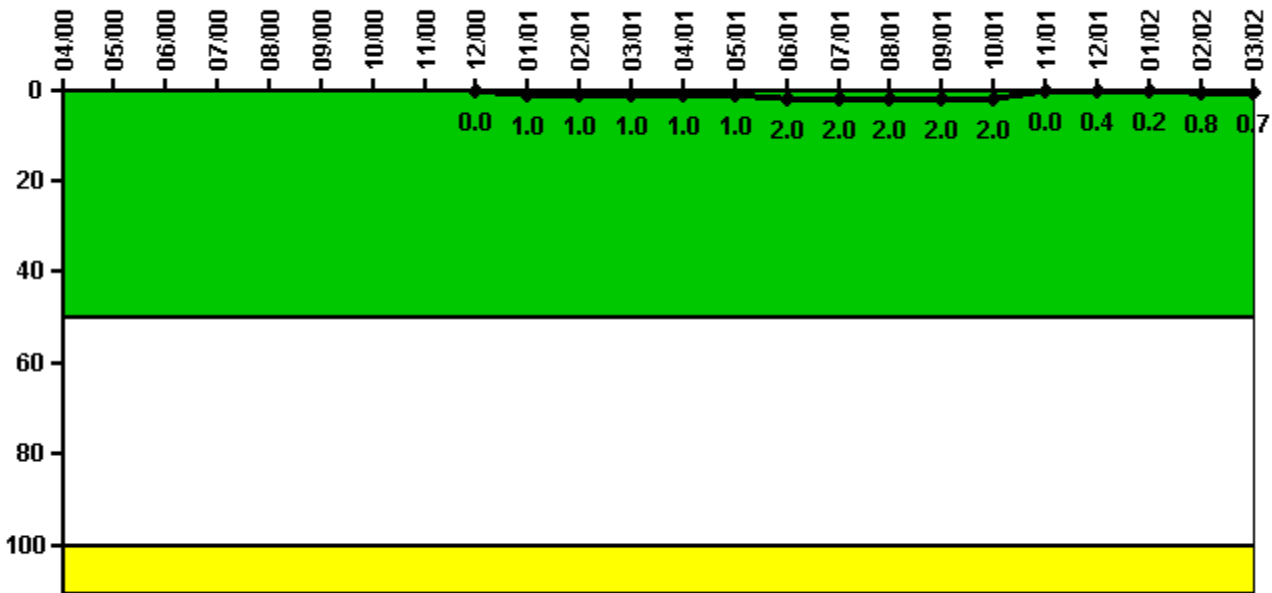
Notes

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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.000600	0.000700	0.000800
Technical specification limit	1.0	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	N/A	N/A	N/A	0.1	0.1	0.1

Reactor Coolant System Activity	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum activity	0.000770	0.000790	0.001400	0.001100	0.002700	0.001600	0.002500	0.002900	0.003400	0.003800	0.004300	0.004300
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.4

Licensee Comments: none

Reactor Coolant System Leakage



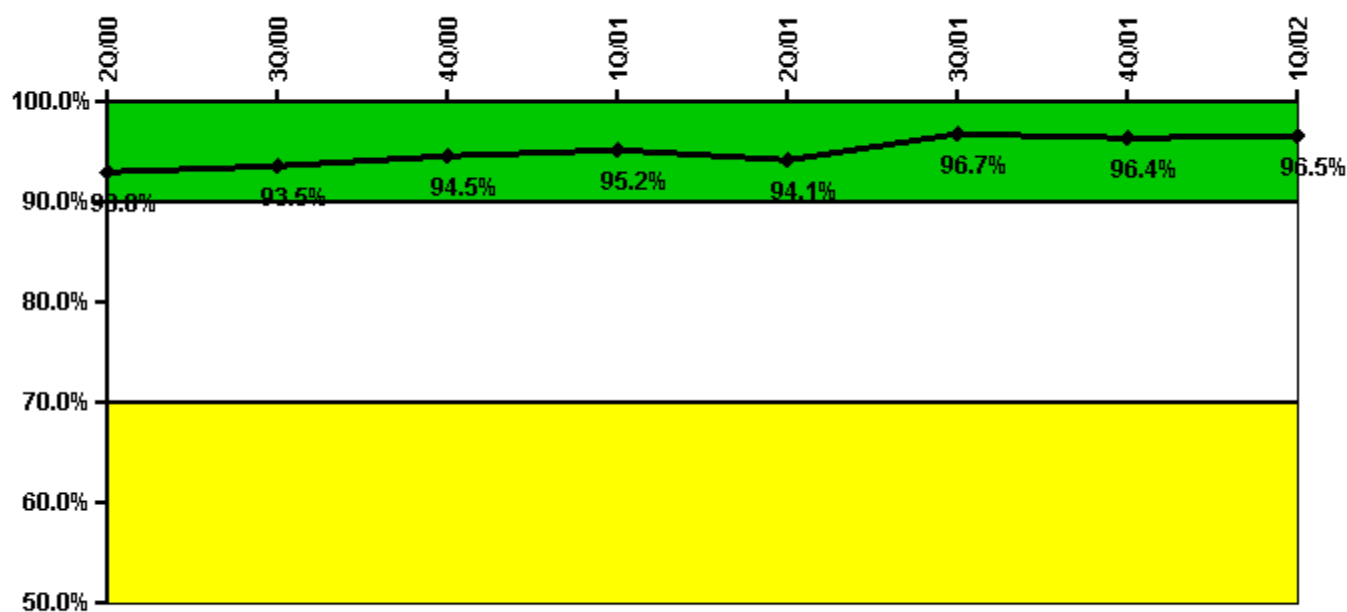
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0.100	0.100	0.100
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	1.0	1.0	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	0.100	0.100	0.200	0.200	0.200	0.200	0.200	0	0.039	0.019	0.077	0.068
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.0	2.0	2.0	2.0	2.0	2.0	0	0.4	0.2	0.8	0.7

Licensee Comments: none

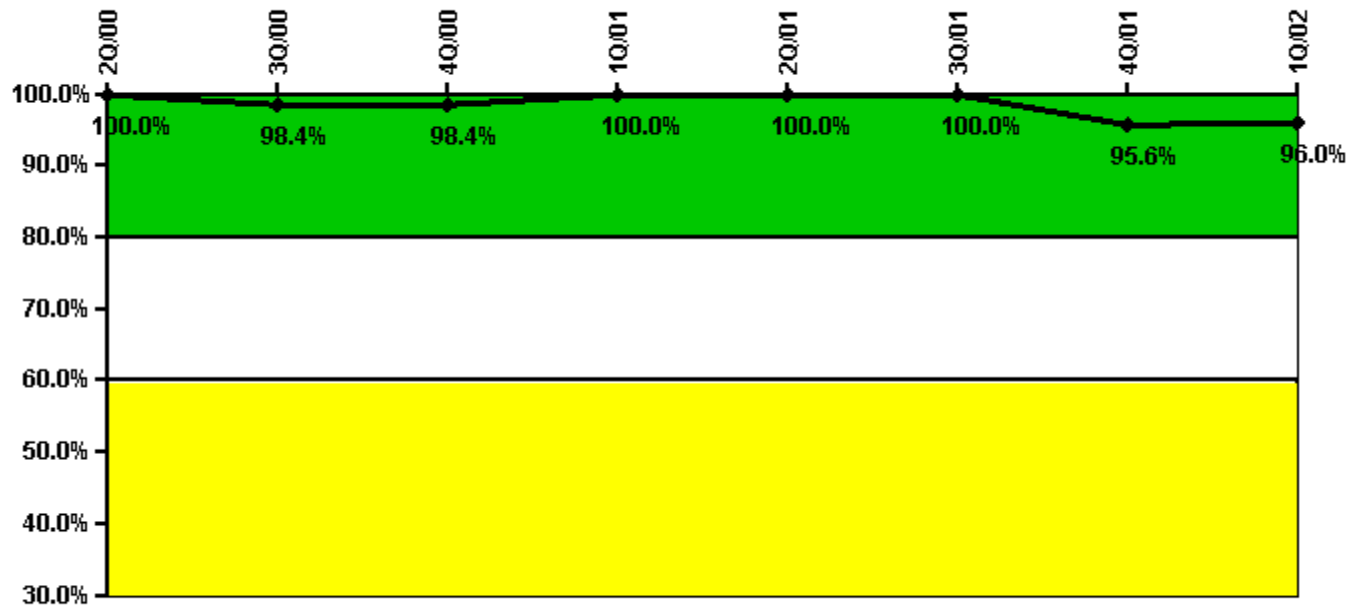
Drill/Exercise Performance

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	30.0	9.0	13.0	28.0	15.0	26.0	10.0	6.0
Total opportunities	30.0	9.0	14.0	29.0	18.0	26.0	10.0	6.0
Indicator value	93.0%	93.5%	94.5%	95.2%	94.1%	96.7%	96.4%	96.5%

Licensee Comments: none

ERO Drill Participation

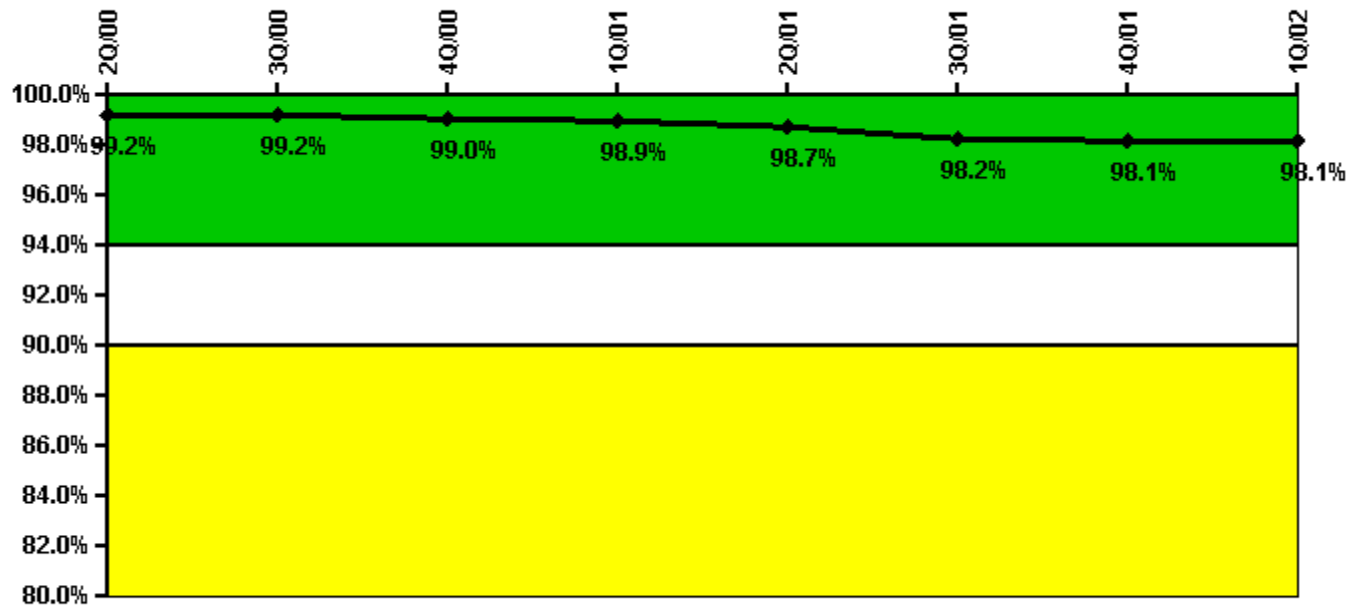
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Participating Key personnel	67.0	63.0	62.0	48.0	48.0	45.0	43.0	48.0
Total Key personnel	67.0	64.0	63.0	48.0	48.0	45.0	45.0	50.0
Indicator value	100.0%	98.4%	98.4%	100.0%	100.0%	100.0%	95.6%	96.0%

Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful siren-tests	1225	914	906	1069	1062	997	1197	1003
Total sirens-tests	1232	924	924	1078	1078	1029	1222	1011
Indicator value	99.2%	99.2%	99.0%	98.9%	98.7%	98.2%	98.1%	98.1%

Licensee Comments: none

Occupational Exposure Control Effectiveness

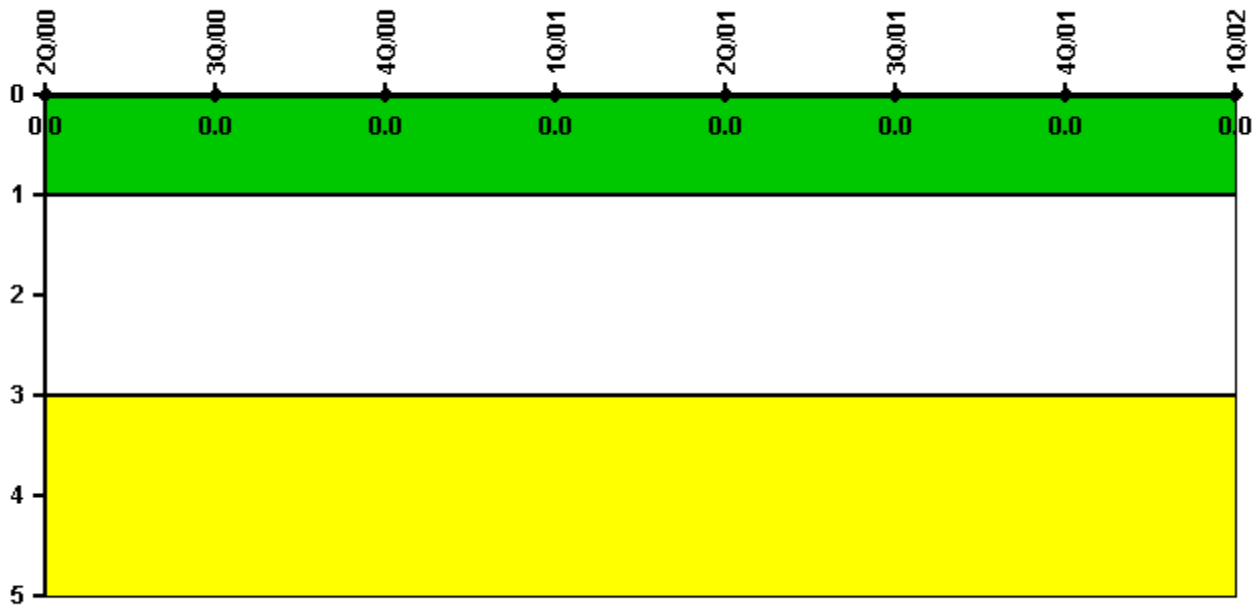


Thresholds: White > 2.0 Yellow > 5.0

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

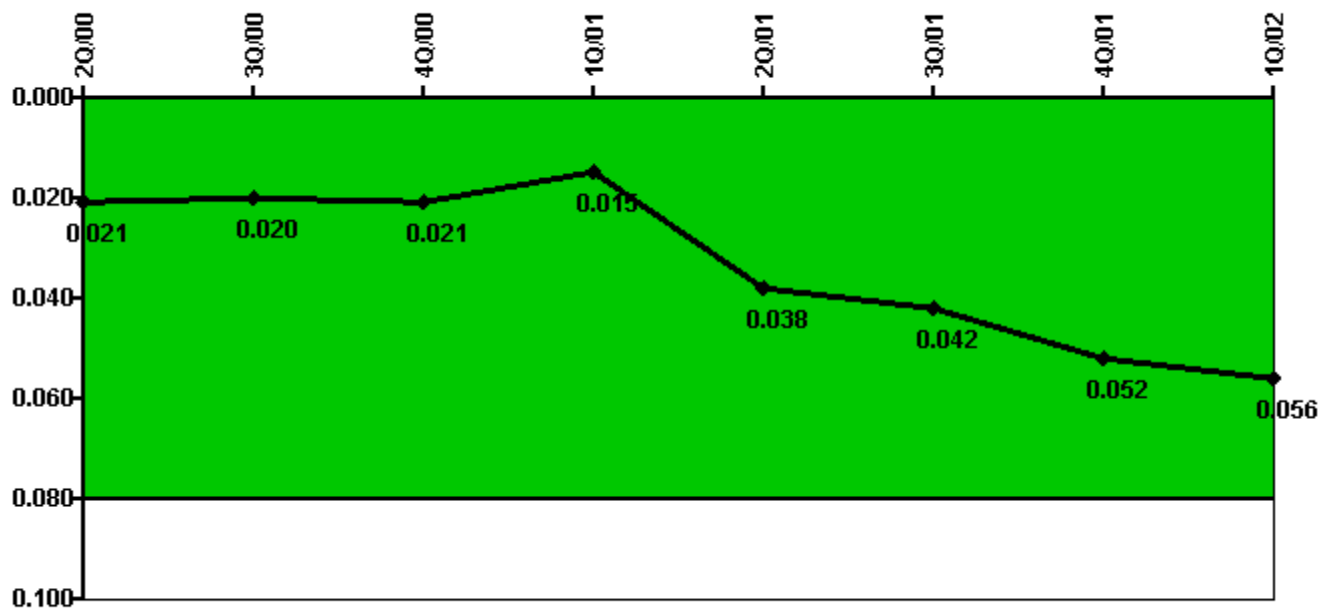
Thresholds: White > 1.0 Yellow > 3.0

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



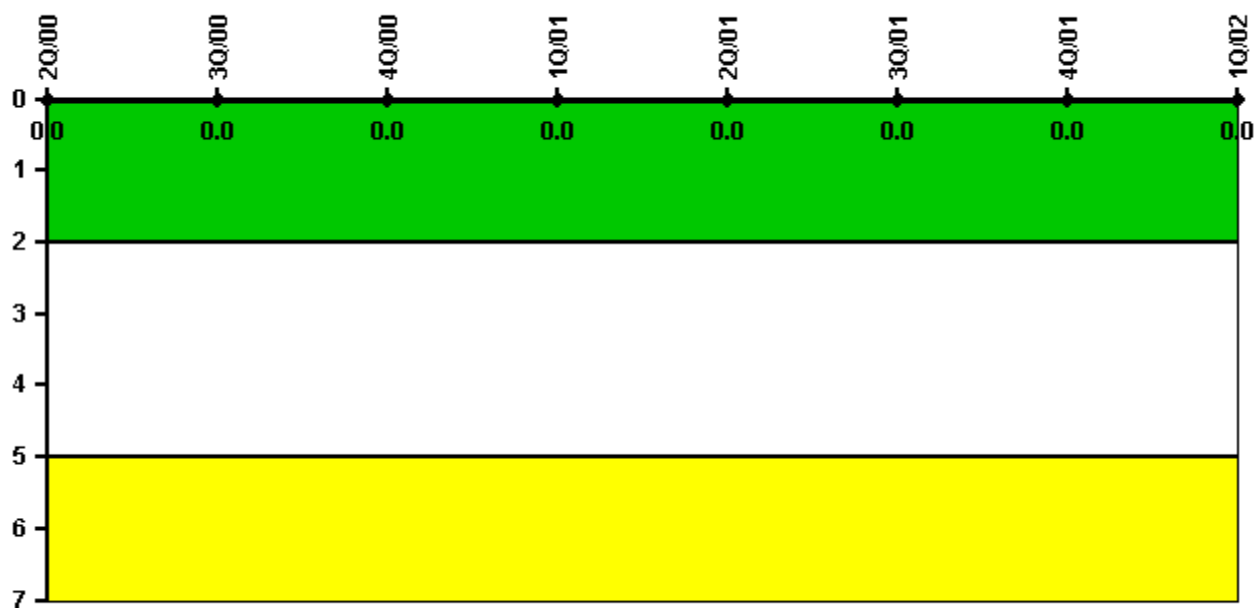
Thresholds: White > 0.080

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	90.82	41.35	75.92	7.49	238.12	114.83	47.93	34.74
CCTV compensatory hours	0.6	26.7	6.3	21.0	285.2	25.8	219.3	72.6
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	0.021	0.020	0.021	0.015	0.038	0.042	0.052	0.056

Licensee Comments: none

Personnel Screening Program

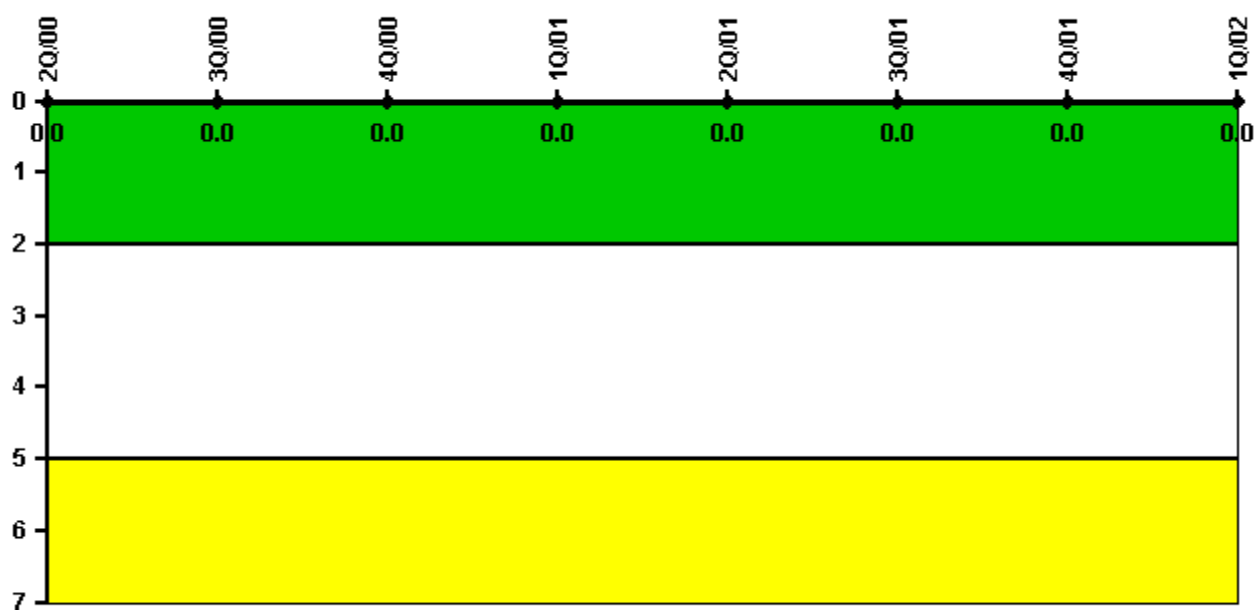


Thresholds: White > 2.0 Yellow > 5.0

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](#)

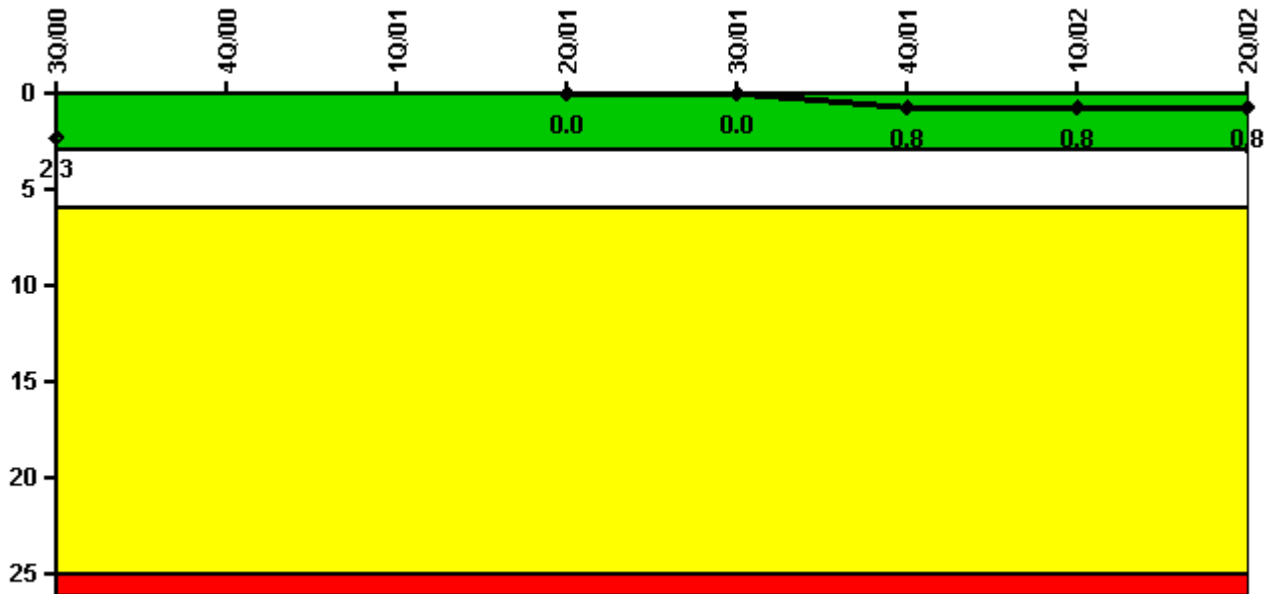
Last Modified: May 1, 2002

Indian Point 2

2Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



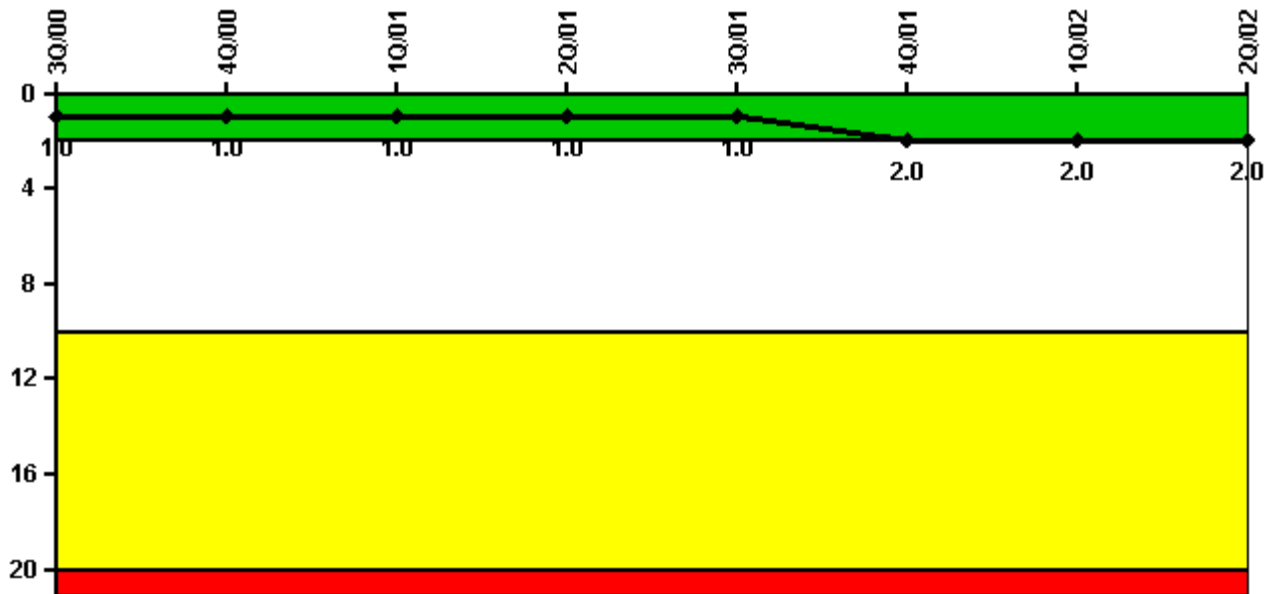
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	0	44.2	2160.0	2183.0	2208.0	1963.0	2160.0	2183.0
Indicator value	2.3	N/A	N/A	0	0	0.8	0.8	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



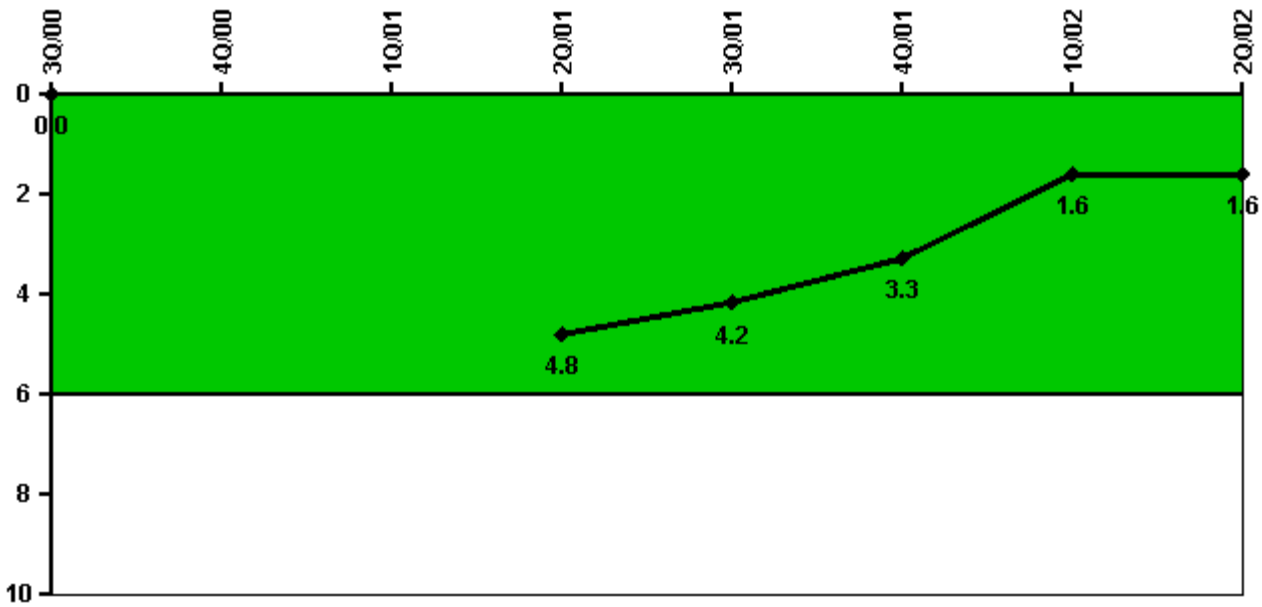
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
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	2.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



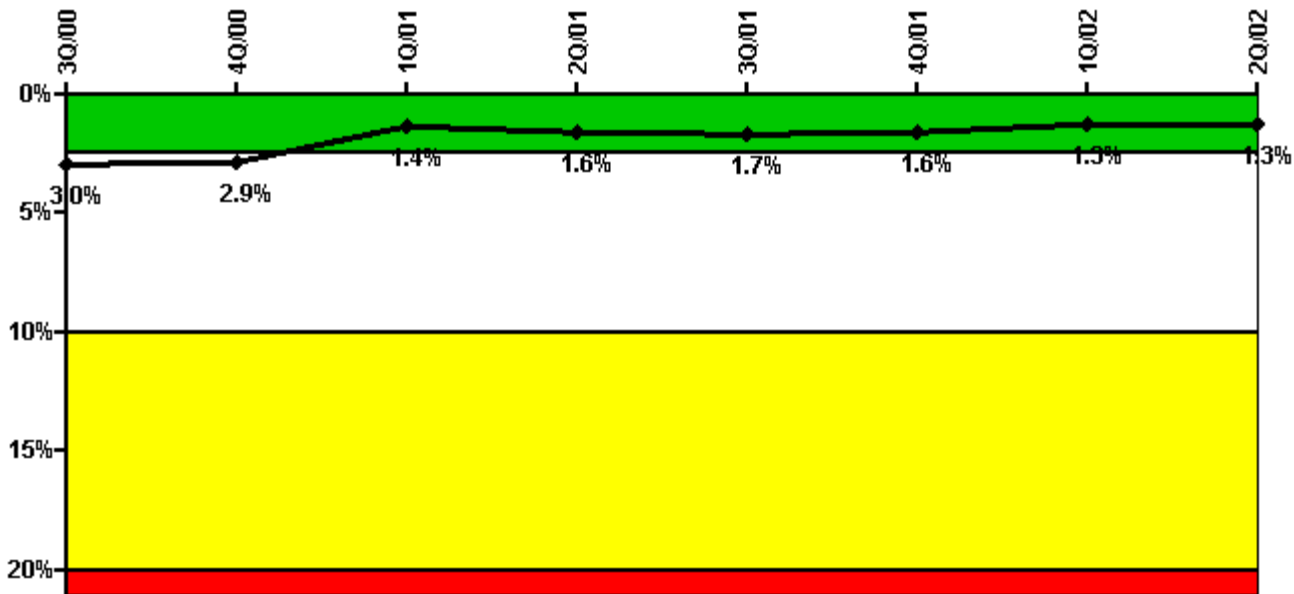
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned power changes	0	0	2.0	1.0	1.0	0	0	1.0
Critical hours	0	44.2	2160.0	2183.0	2208.0	1963.0	2160.0	2183.0
Indicator value	0	N/A	N/A	4.8	4.2	3.3	1.6	1.6

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



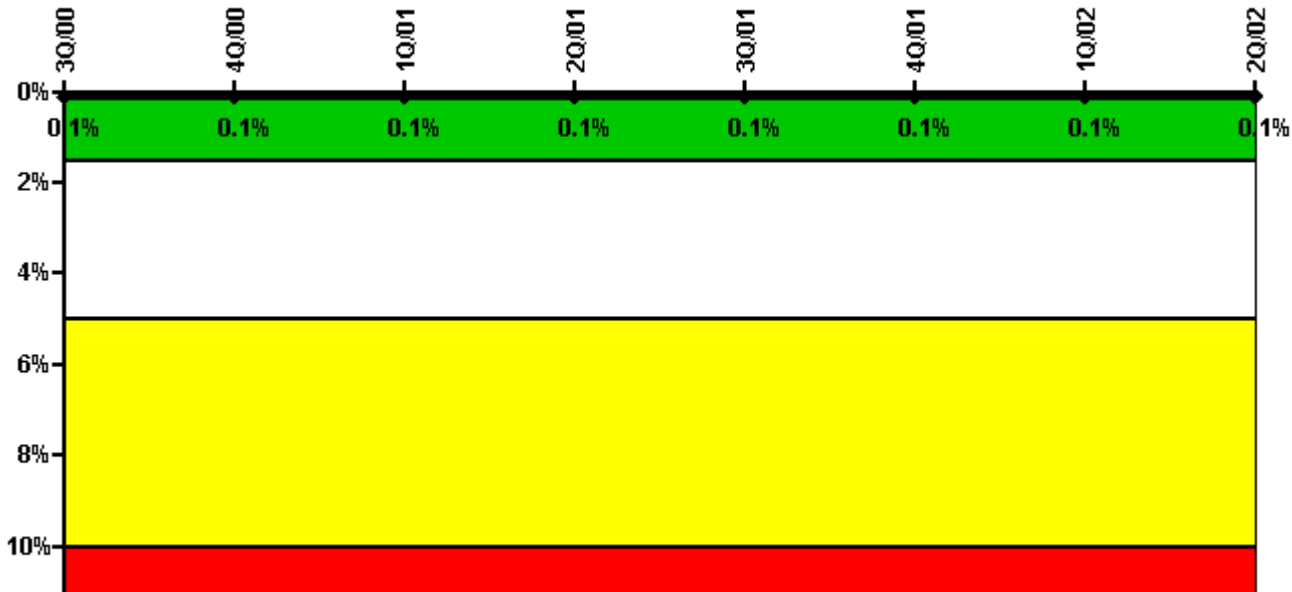
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	0	0	7.30	111.65	8.80	0	0	21.17
Unplanned unavailable hours	0	0	0.80	32.93	0	0	0.08	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2208.00	2160.00	2183.00	2208.00	2208.00	2160.00	2183.00
Train 2								
Planned unavailable hours	0	0	125.87	9.92	51.58	0	34.80	0
Unplanned unavailable hours	0	0	0.63	1.03	0	10.20	18.67	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2208.00	2160.00	2183.00	2208.00	2208.00	2160.00	2183.00
Train 3								
Planned unavailable hours	0	0	81.62	28.93	86.63	0	39.72	0
Unplanned unavailable hours	0	0	0.88	29.03	0	4.85	23.08	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	1443.93	0	0	0	0	0
Required hours	2208.00	2208.00	2160.00	2183.00	2208.00	2208.00	2160.00	2183.00
Indicator value	3.0%	2.9%	1.4%	1.6%	1.7%	1.6%	1.3%	1.3%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



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

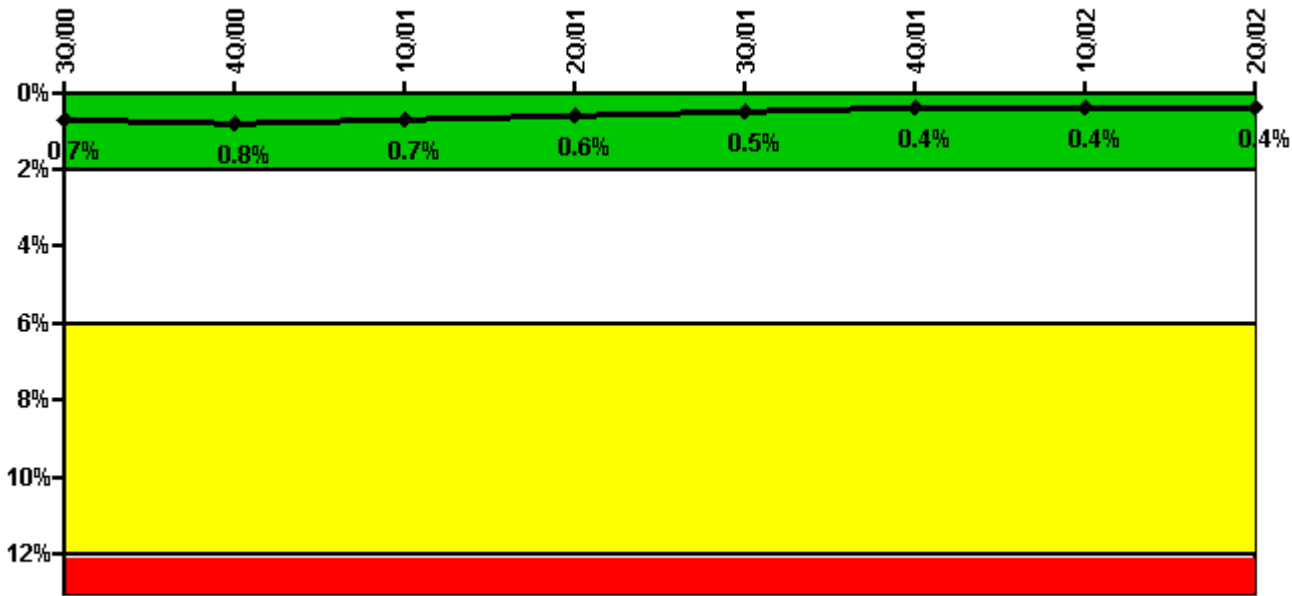
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	0	0	1.00	5.50	1.00	0.23	0.68	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	44.17	2160.00	2183.00	2208.00	1962.98	2160.00	2183.00
Train 2								
Planned unavailable hours	0	0	6.00	2.53	6.56	0	0.28	0
Unplanned unavailable hours	0	0	0	0	0	0.17	0	13.30
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	44.17	2160.00	2183.00	2208.00	1962.98	2160.00	2183.00
Train 3								
Planned unavailable hours	0	0	4.00	0.40	3.83	0.32	0.41	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	44.17	2160.00	2183.00	2208.00	1962.98	2160.00	2183.00

Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

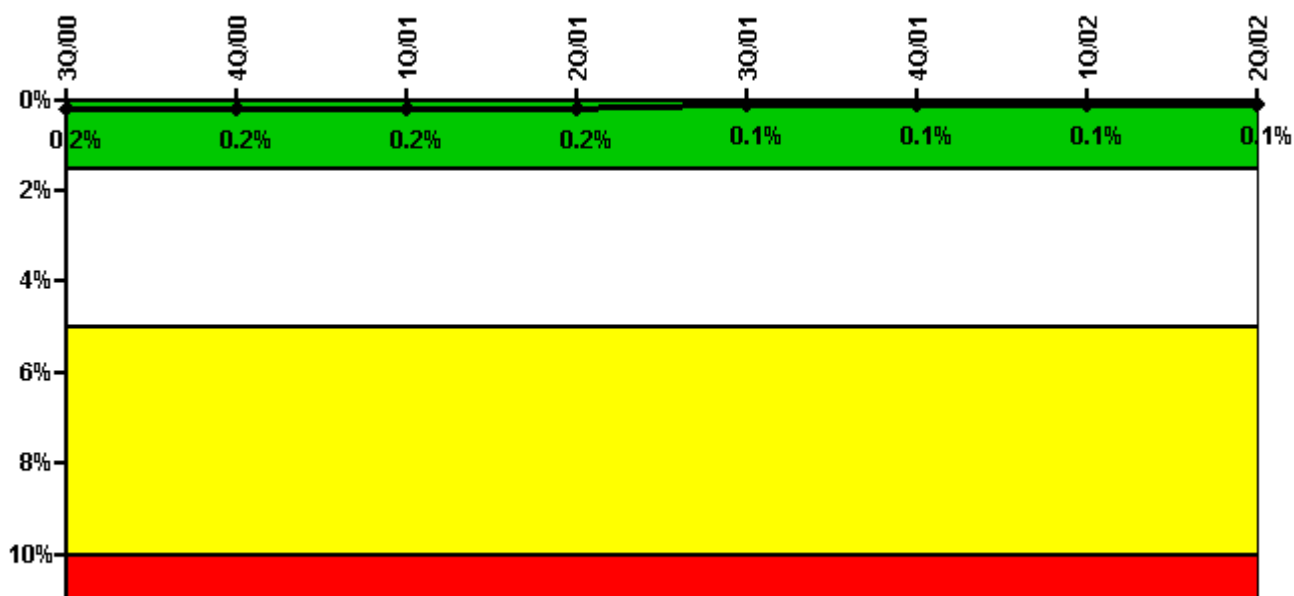
Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	0	0	5.00	5.10	8.50	0	0.71	0
Unplanned unavailable hours	0	0	0.40	0	0	12.37	33.75	7.82
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	44.17	2160.00	2183.00	2208.00	1962.98	2160.00	2183.00
Train 2								
Planned unavailable hours	0	0	5.75	5.80	6.17	0.96	2.38	10.00
Unplanned unavailable hours	0	0	0.42	0	0	1.65	0	0
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	44.17	2160.00	2183.00	2208.00	1962.98	2160.00	2183.00
Train 3								
Planned unavailable hours	0	0	13.50	2.50	1.30	12.70	0.33	0.51
Unplanned unavailable hours	0	0	4.42	3.50	0	0	0	0

Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	44.17	2160.00	2183.00	2208.00	1962.98	2160.00	2183.00
Indicator value	0.7%	0.8%	0.7%	0.6%	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%

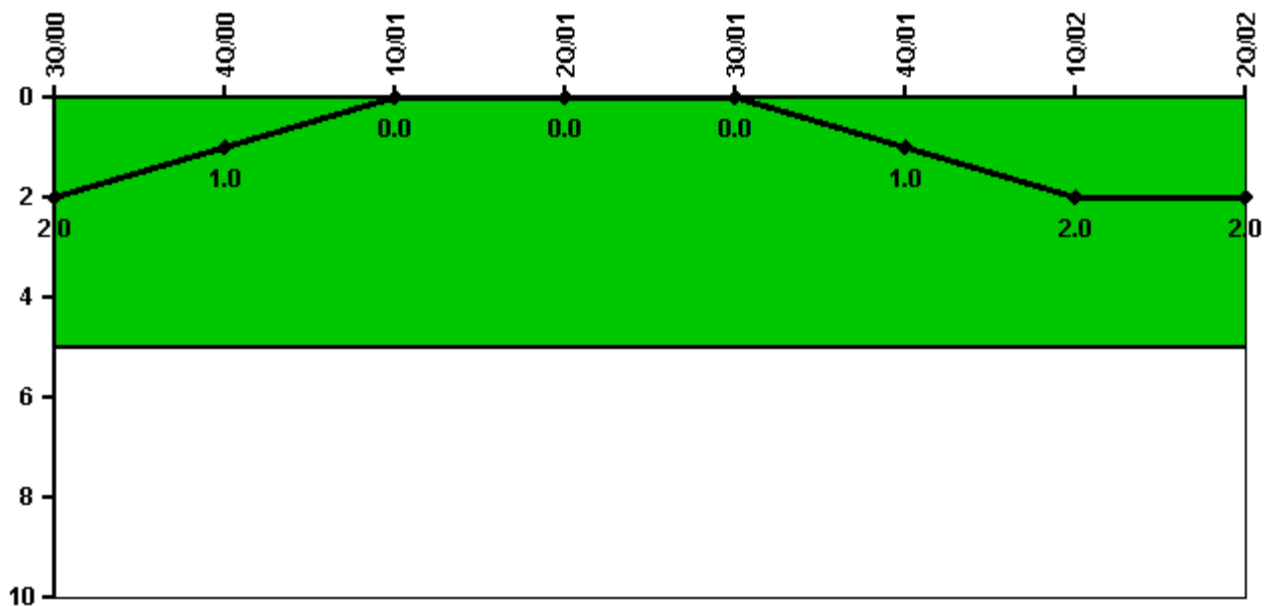
Notes

Safety System Unavailability, Residual Heat Removal System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	0	0	8.00	4.50	0.25	0	0.45	0
Unplanned unavailable hours	0	0	6.40	0	0	0.17	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1163.00	957.10	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	0	0	0	0.50	0.08	0	0.86	0
Unplanned unavailable hours	0	0	4.50	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	1163.00	957.10	2160.00	2183.00	2208.00	2209.00	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	1163.00	957.10	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1163.00	957.10	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	0.2%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

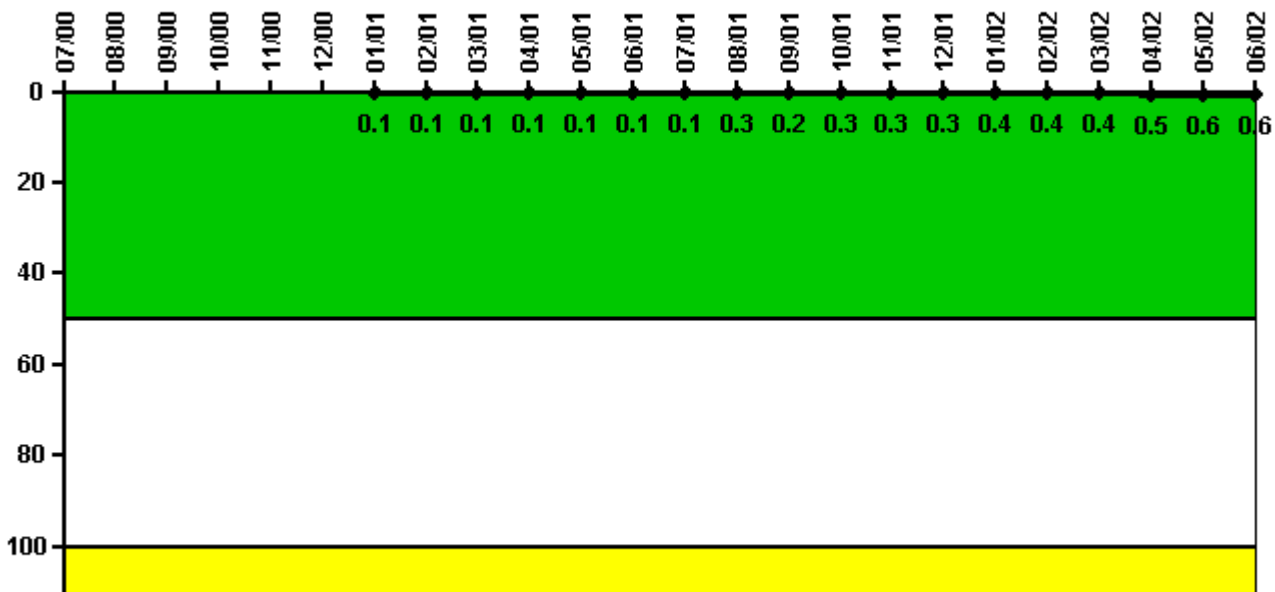
Notes

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

Indicator value	2	1	0	0	0	1	2	2

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

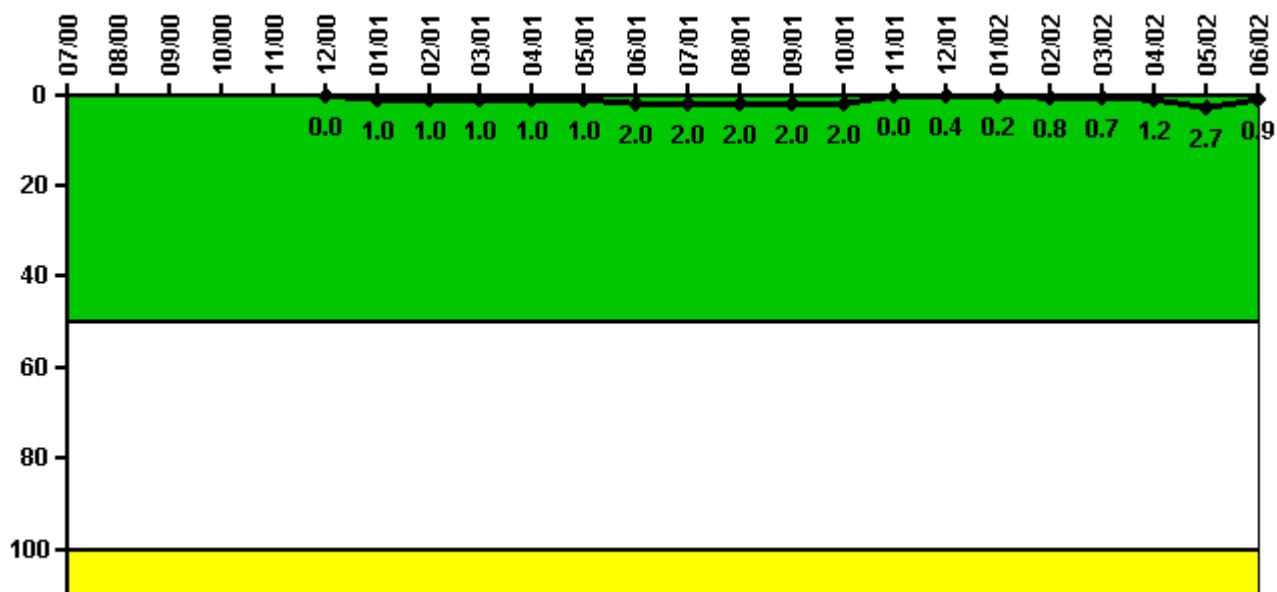
Notes

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	N/A	N/A	N/A	N/A	N/A	N/A	0.000600	0.000700	0.000800	0.000770	0.000790	0.001400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	N/A	N/A	N/A	N/A	N/A	0.1	0.1	0.1	0.1	0.1	0.1

Reactor Coolant System Activity	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum activity	0.001100	0.002700	0.001600	0.002500	0.002900	0.003400	0.003800	0.004300	0.004300	0.004900	0.005800	0.006400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.6

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

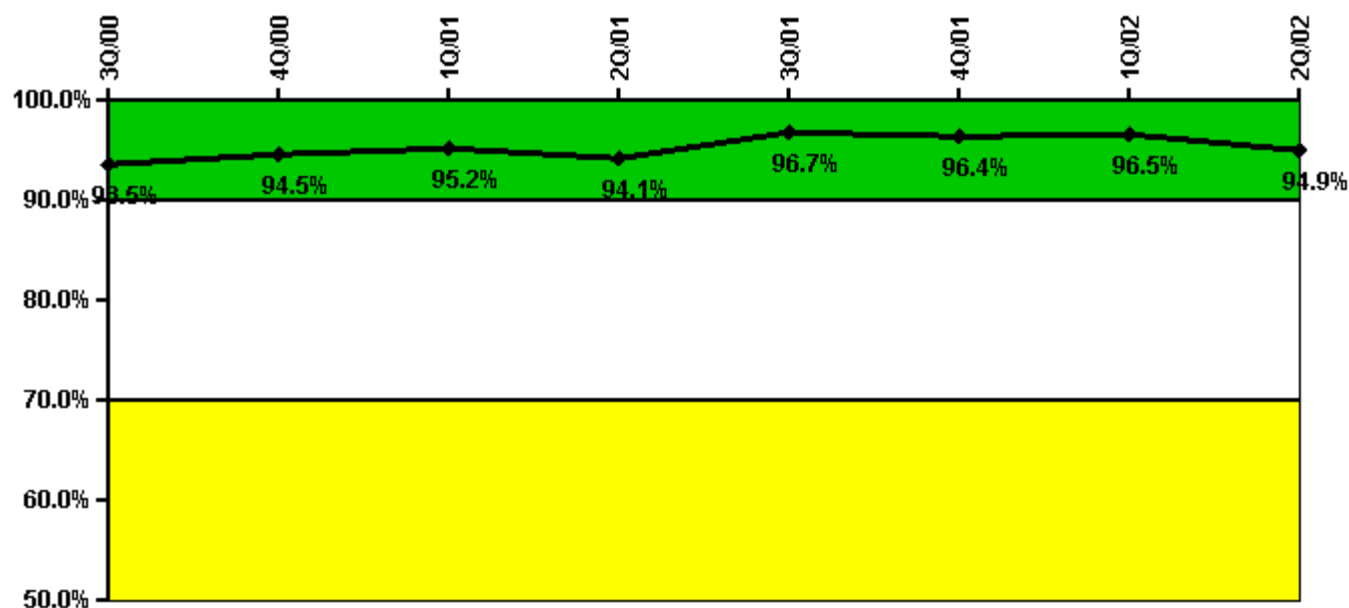
Notes

Reactor Coolant System Leakage	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	N/A	N/A	N/A	N/A	N/A	0	0.100	0.100	0.100	0.100	0.100	0.200
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	N/A	N/A	N/A	N/A	N/A	0	1.0	1.0	1.0	1.0	1.0	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	0.200	0.200	0.200	0.200	0	0.039	0.019	0.077	0.068	0.118	0.269	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.0	2.0	2.0	2.0	0	0.4	0.2	0.8	0.7	1.2	2.7	0.9

Licensee Comments: none

Drill/Exercise Performance



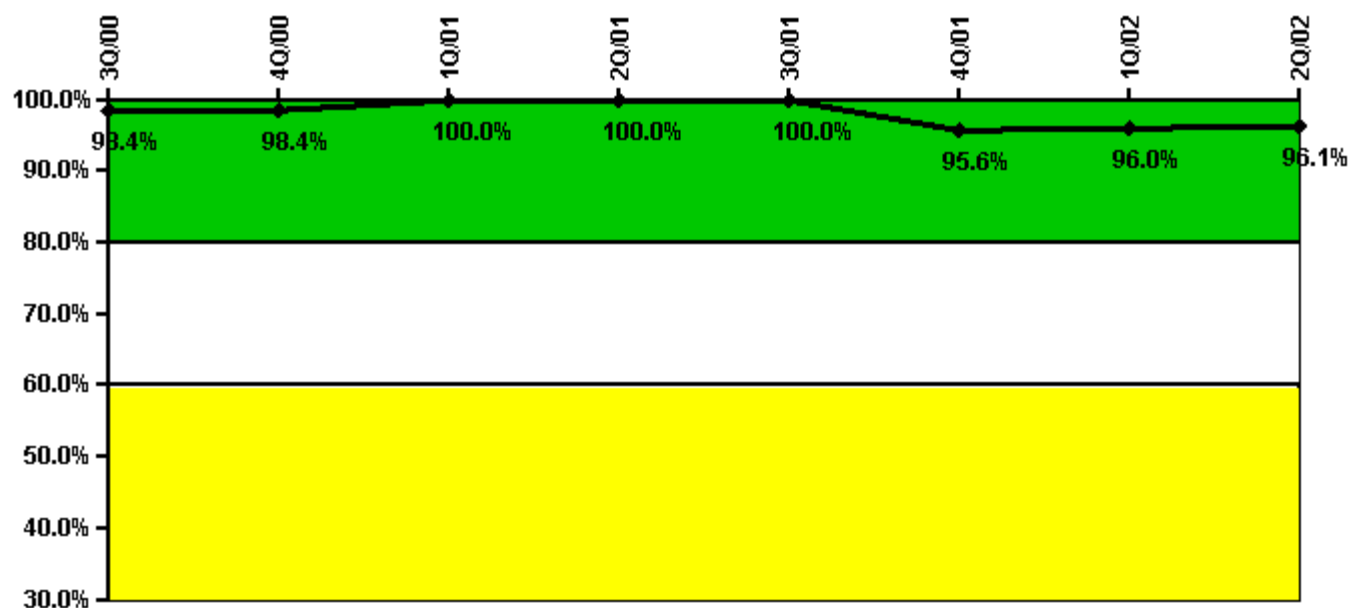
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful opportunities	9.0	13.0	28.0	15.0	26.0	10.0	6.0	22.0
Total opportunities	9.0	14.0	29.0	18.0	26.0	10.0	6.0	24.0
Indicator value	93.5%	94.5%	95.2%	94.1%	96.7%	96.4%	96.5%	94.9%

Licensee Comments: none

ERO Drill Participation



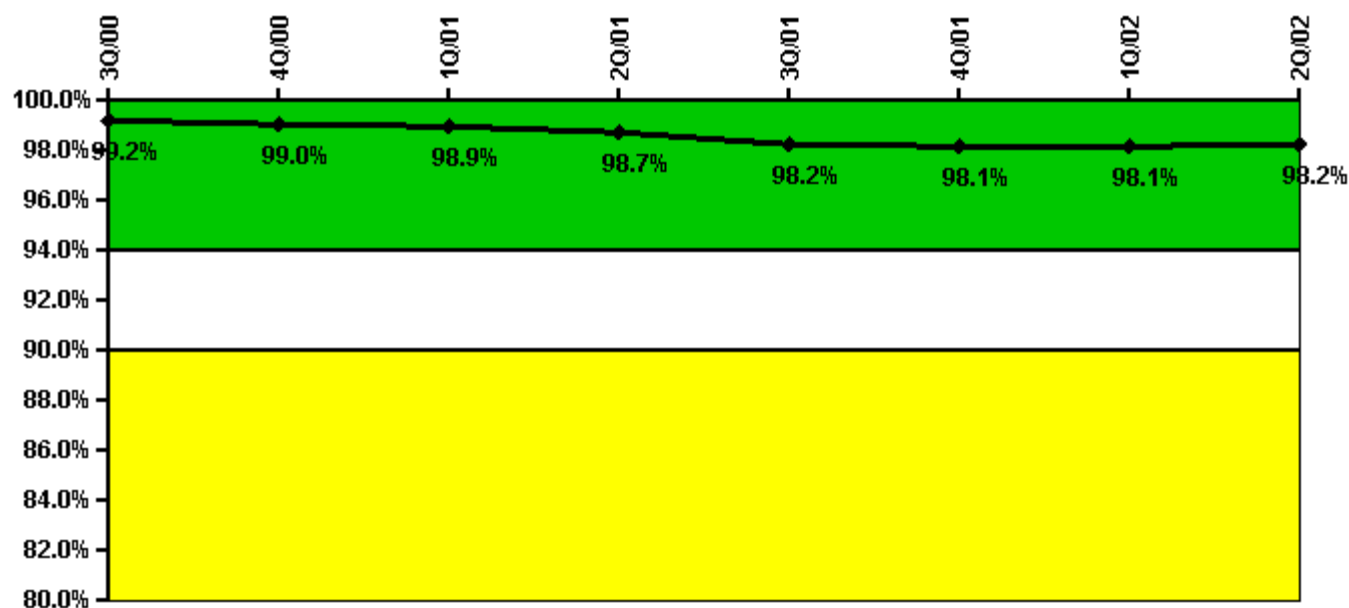
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Participating Key personnel	63.0	62.0	48.0	48.0	45.0	43.0	48.0	49.0
Total Key personnel	64.0	63.0	48.0	48.0	45.0	45.0	50.0	51.0
Indicator value	98.4%	98.4%	100.0%	100.0%	100.0%	95.6%	96.0%	96.1%

Licensee Comments: none

Alert & Notification System



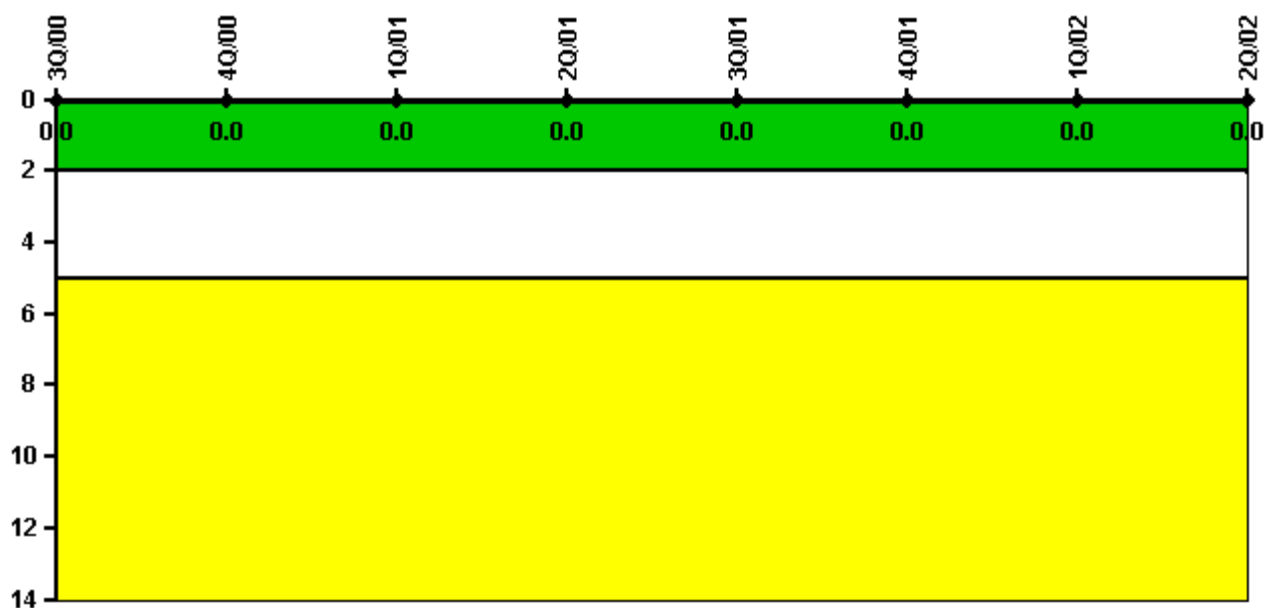
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful siren-tests	914	906	1069	1062	997	1197	1003	1111
Total sirens-tests	924	924	1078	1078	1029	1222	1011	1124
Indicator value	99.2%	99.0%	98.9%	98.7%	98.2%	98.1%	98.1%	98.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness

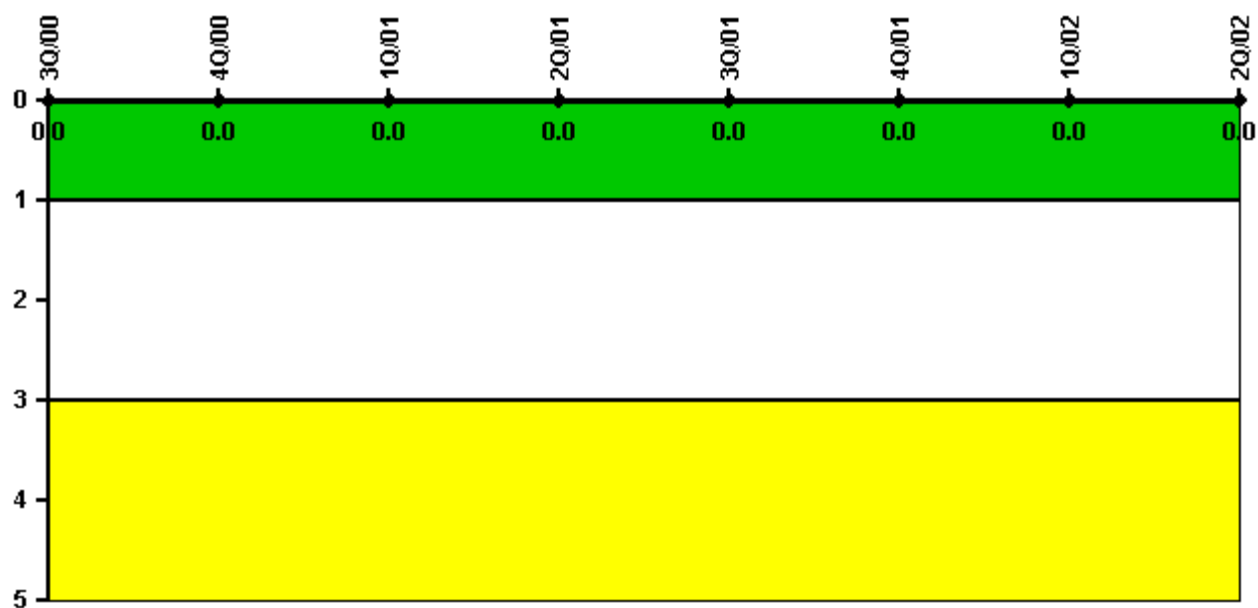


Thresholds: White > 2.0 Yellow > 5.0

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

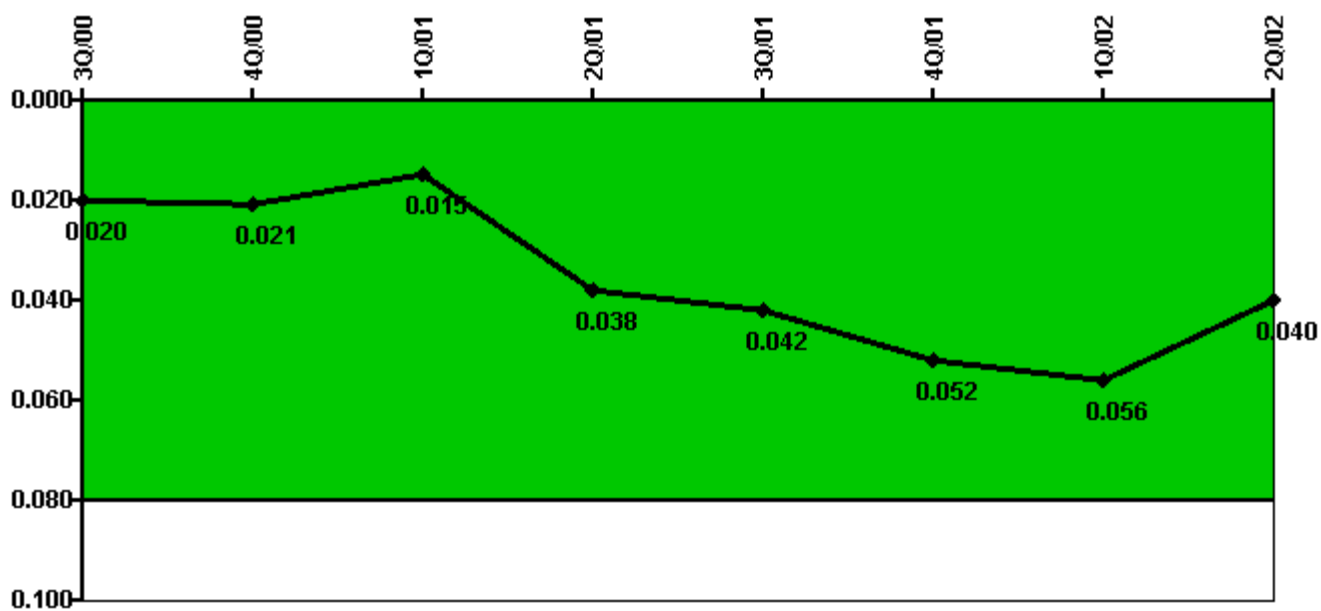
Thresholds: White > 1.0 Yellow > 3.0

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



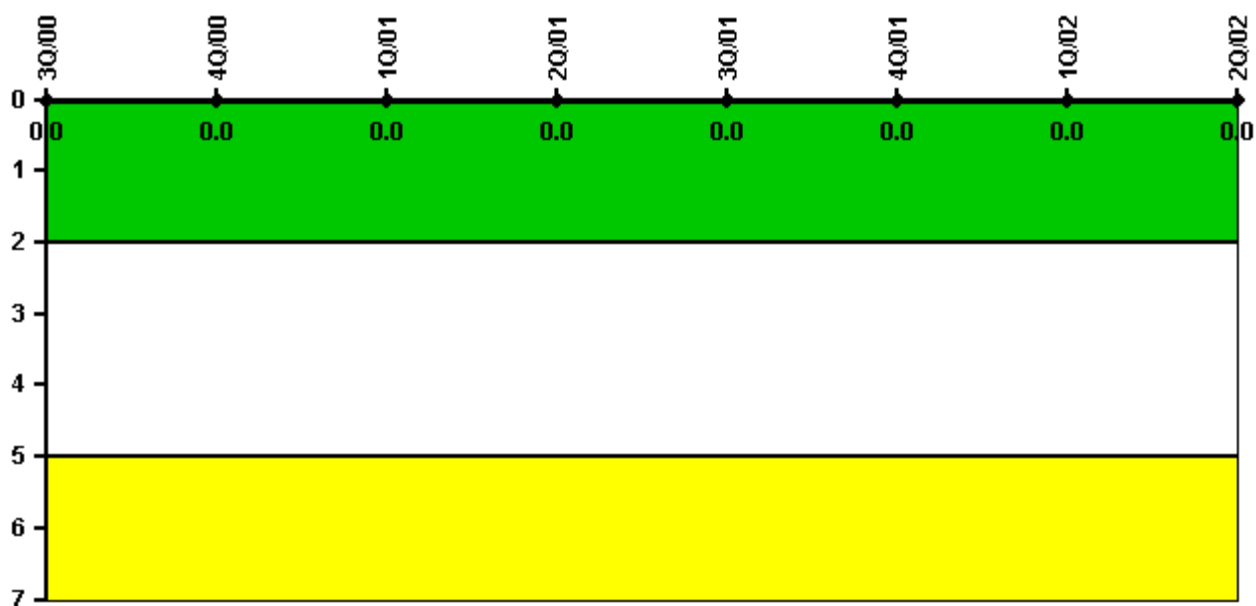
Thresholds: White > 0.080

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	41.35	75.92	7.49	238.12	114.83	47.93	34.74	206.95
CCTV compensatory hours	26.7	6.3	21.0	285.2	25.8	219.3	72.6	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	0.020	0.021	0.015	0.038	0.042	0.052	0.056	0.040

Licensee Comments: none

Personnel Screening Program



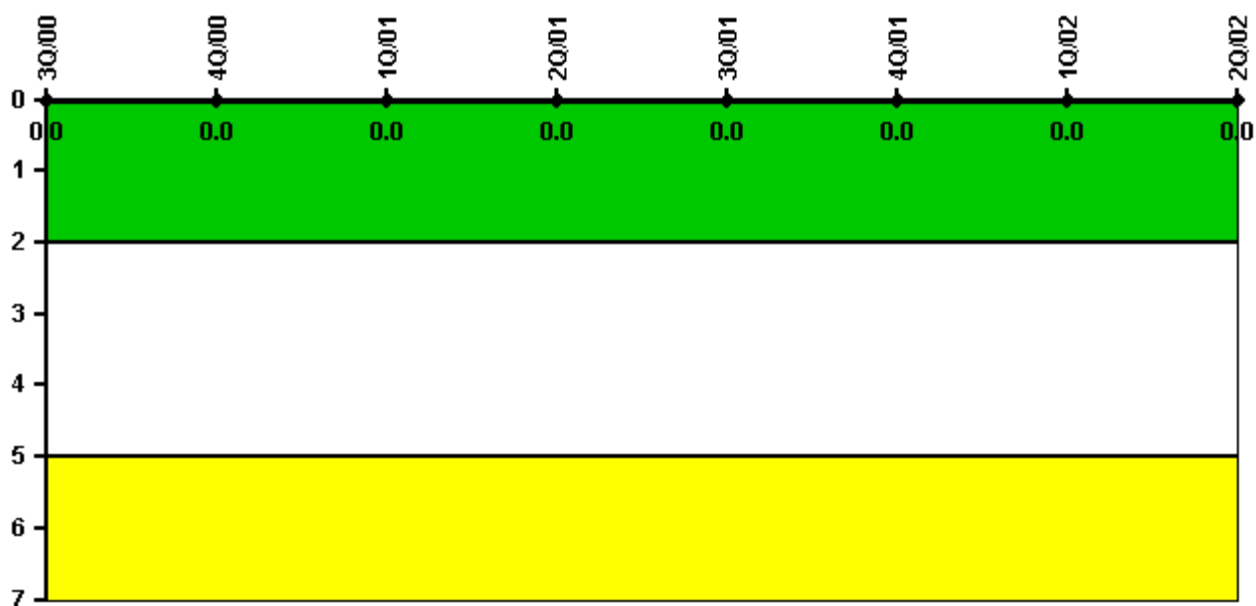
Thresholds: White > 2.0 Yellow > 5.0

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](#)

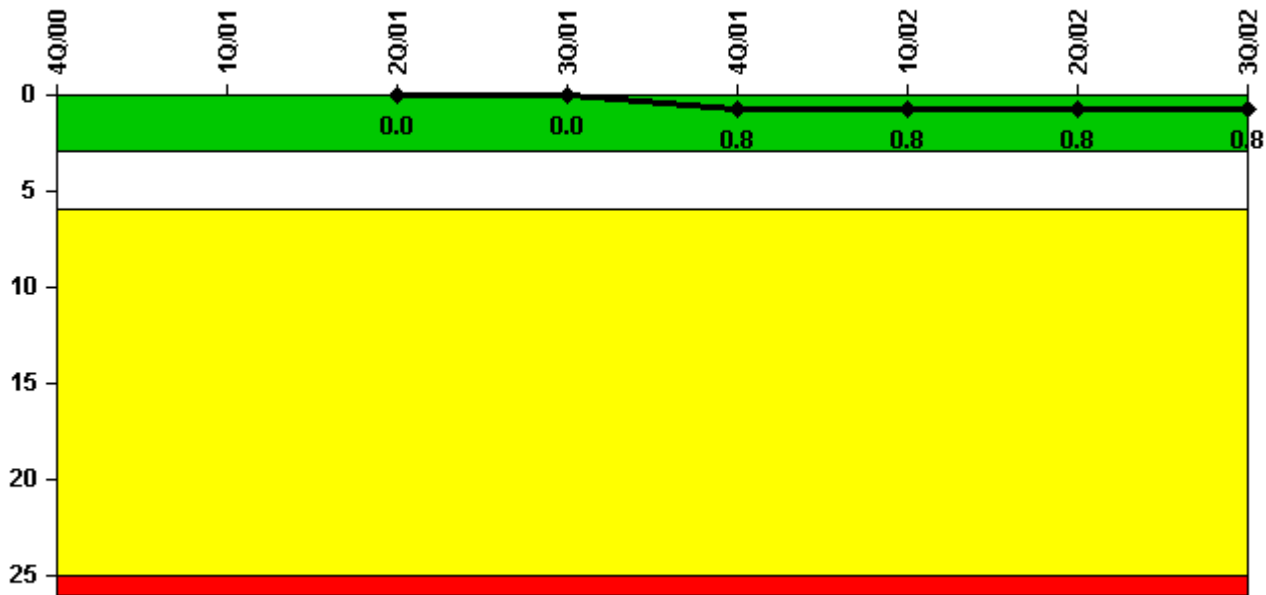
Last Modified: July 31, 2002

Indian Point 2

3Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



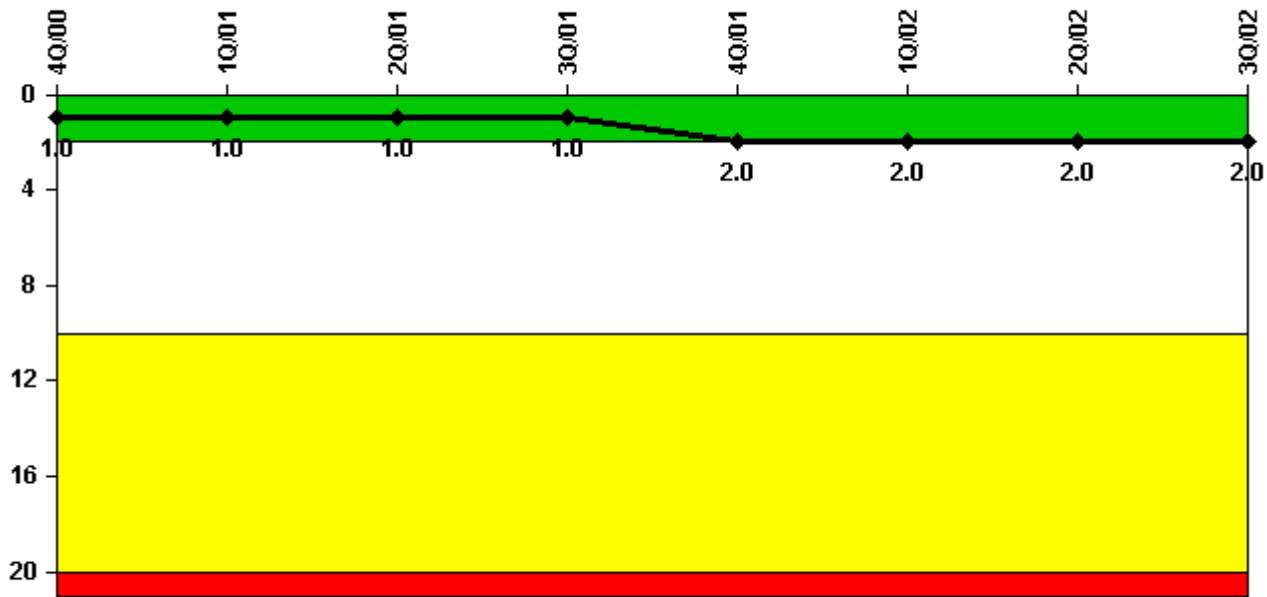
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	44.2	2160.0	2183.0	2208.0	1963.0	2160.0	2183.0	2208.0
Indicator value	N/A	N/A	0	0	0.8	0.8	0.8	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



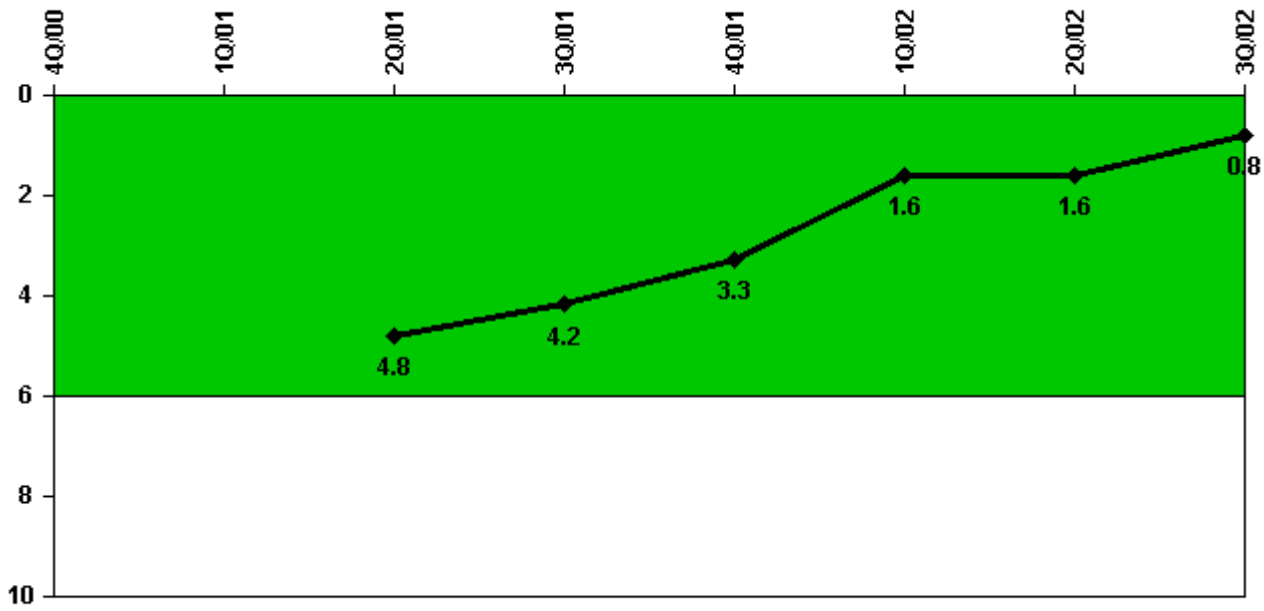
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Scrams	0	0	0	0	1.0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



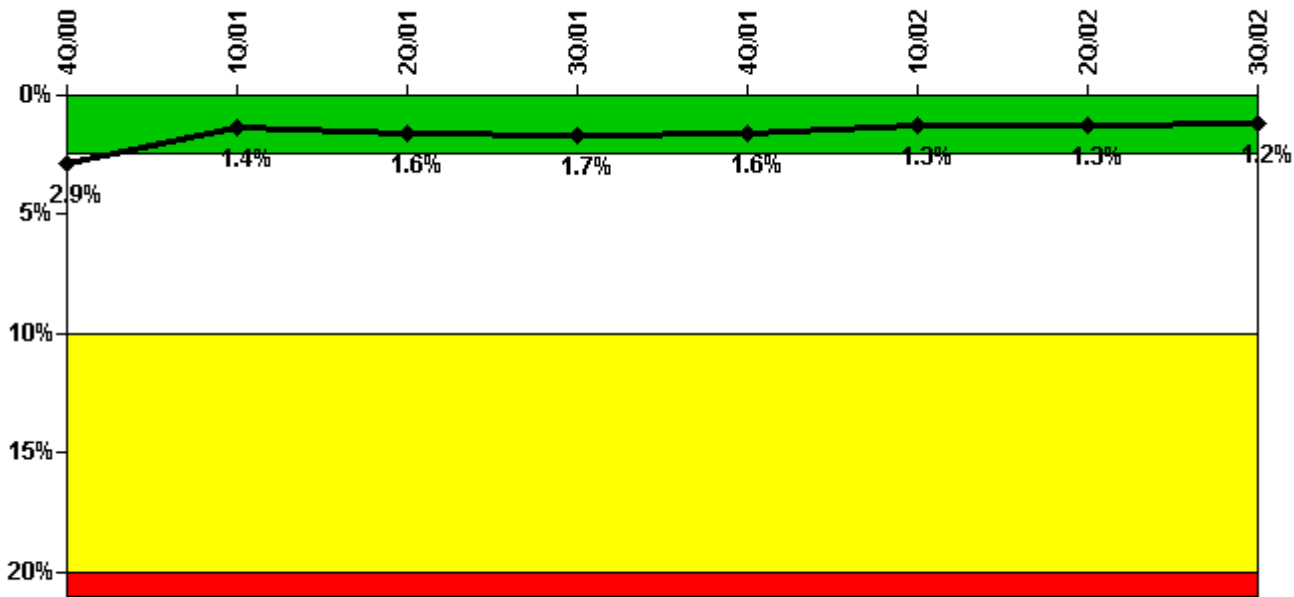
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned power changes	0	2.0	1.0	1.0	0	0	1.0	0
Critical hours	44.2	2160.0	2183.0	2208.0	1963.0	2160.0	2183.0	2208.0
Indicator value	N/A	N/A	4.8	4.2	3.3	1.6	1.6	0.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



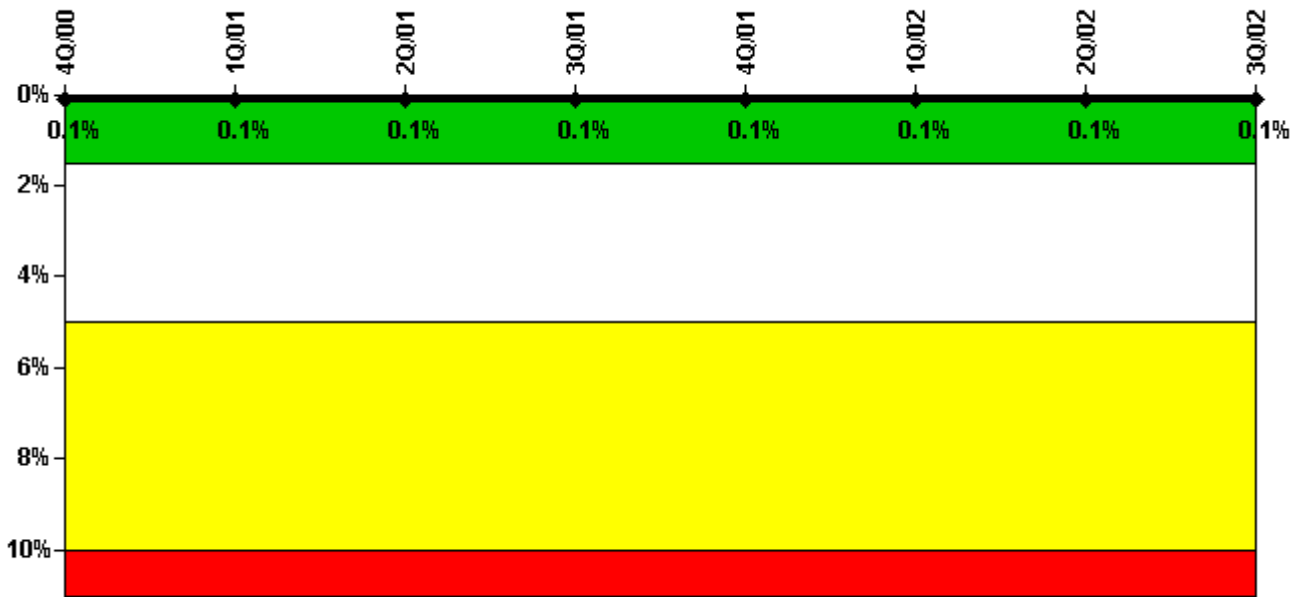
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	0	7.30	111.65	8.80	0	0	21.17	4.88
Unplanned unavailable hours	0	0.80	32.93	0	0	0.08	0	0
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	2160.00	2183.00	2208.00	2208.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	125.87	9.92	51.58	0	34.80	0	0
Unplanned unavailable hours	0	0.63	1.03	0	10.20	18.67	0	29.45
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2160.00	2183.00	2208.00	2208.00	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	81.62	28.93	86.63	0	39.72	0	0
Unplanned unavailable hours	0	0.88	29.03	0	4.85	23.08	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	1443.93	0	0	0	0	0	0
Required hours	2208.00	2160.00	2183.00	2208.00	2208.00	2160.00	2183.00	2208.00
Indicator value	2.9%	1.4%	1.6%	1.7%	1.6%	1.3%	1.3%	1.2%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



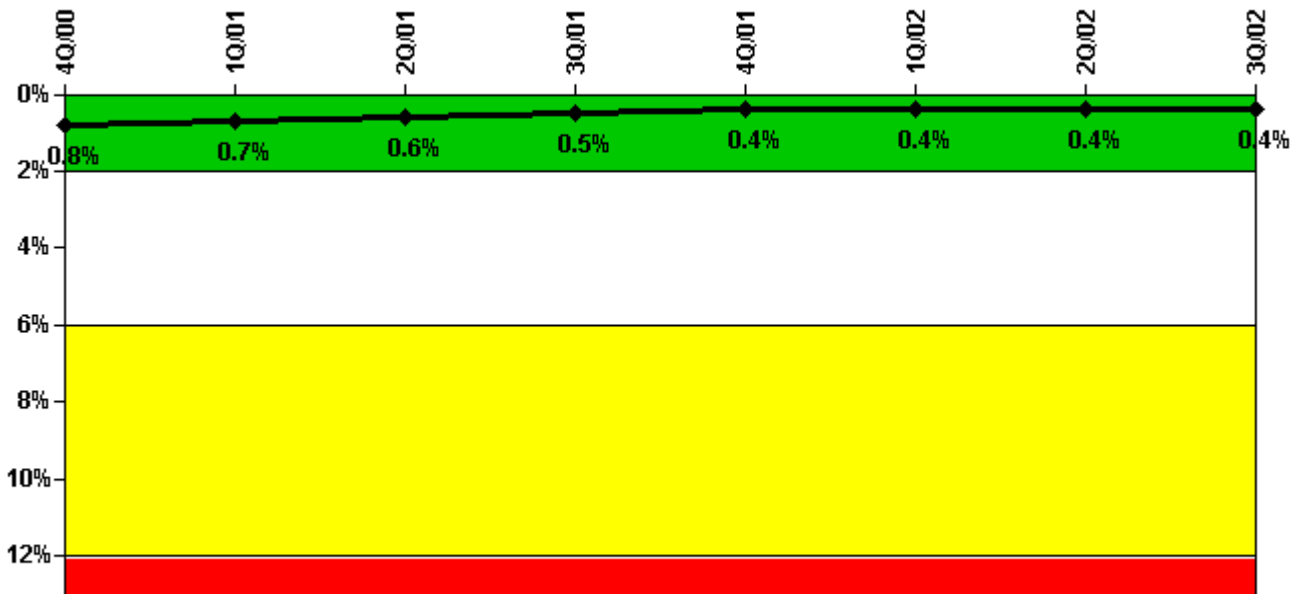
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	0	1.00	5.50	1.00	0.23	0.68	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0.25
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	44.17	2160.00	2183.00	2208.00	1962.98	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	6.00	2.53	6.56	0	0.28	0	1.43
Unplanned unavailable hours	0	0	0	0	0.17	0	13.30	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	44.17	2160.00	2183.00	2208.00	1962.98	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	4.00	0.40	3.83	0.32	0.41	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	44.17	2160.00	2183.00	2208.00	1962.98	2160.00	2183.00	2208.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	0	5.00	5.10	8.50	0	0.71	0	3.56
Unplanned unavailable hours	0	0.40	0	0	12.37	33.75	7.82	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	44.17	2160.00	2183.00	2208.00	1962.98	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	5.75	5.80	6.17	0.96	2.38	10.00	14.32
Unplanned unavailable hours	0	0.42	0	0	1.65	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	44.17	2160.00	2183.00	2208.00	1962.98	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	13.50	2.50	1.30	12.70	0.33	0.51	8.08
Unplanned unavailable hours	0	4.42	3.50	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	44.17	2160.00	2183.00	2208.00	1962.98	2160.00	2183.00	2208.00
Indicator value	0.8%	0.7%	0.6%	0.5%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



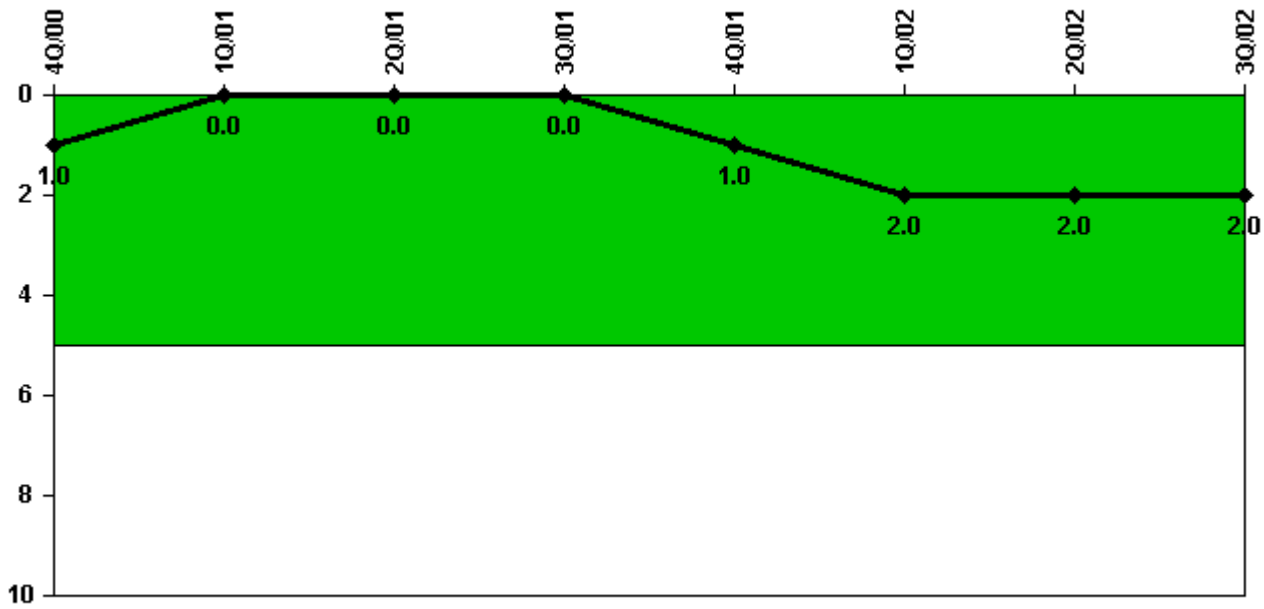
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	0	8.00	4.50	0.25	0	0.45	0	0.32
Unplanned unavailable hours	0	6.40	0	0	0.17	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	957.10	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	0	0.50	0.08	0	0.86	0	0.57
Unplanned unavailable hours	0	4.50	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	957.10	2160.00	2183.00	2208.00	2209.00	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	0.25
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	957.10	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	957.10	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0%

Licensee Comments: none

Safety System Functional Failures (PWR)



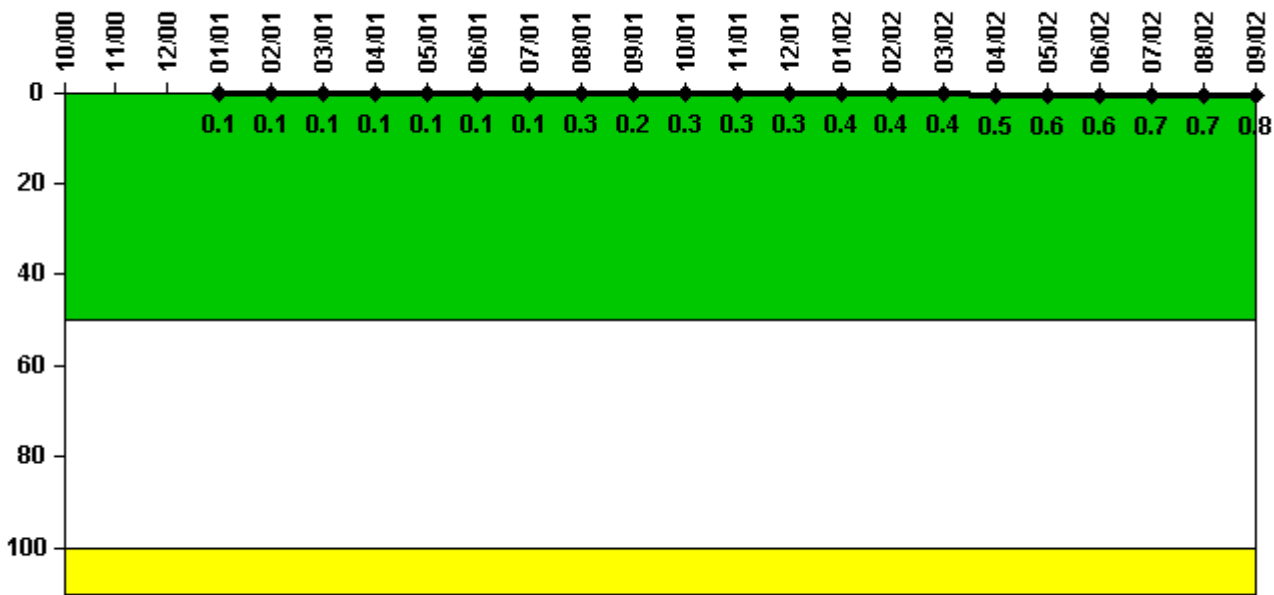
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

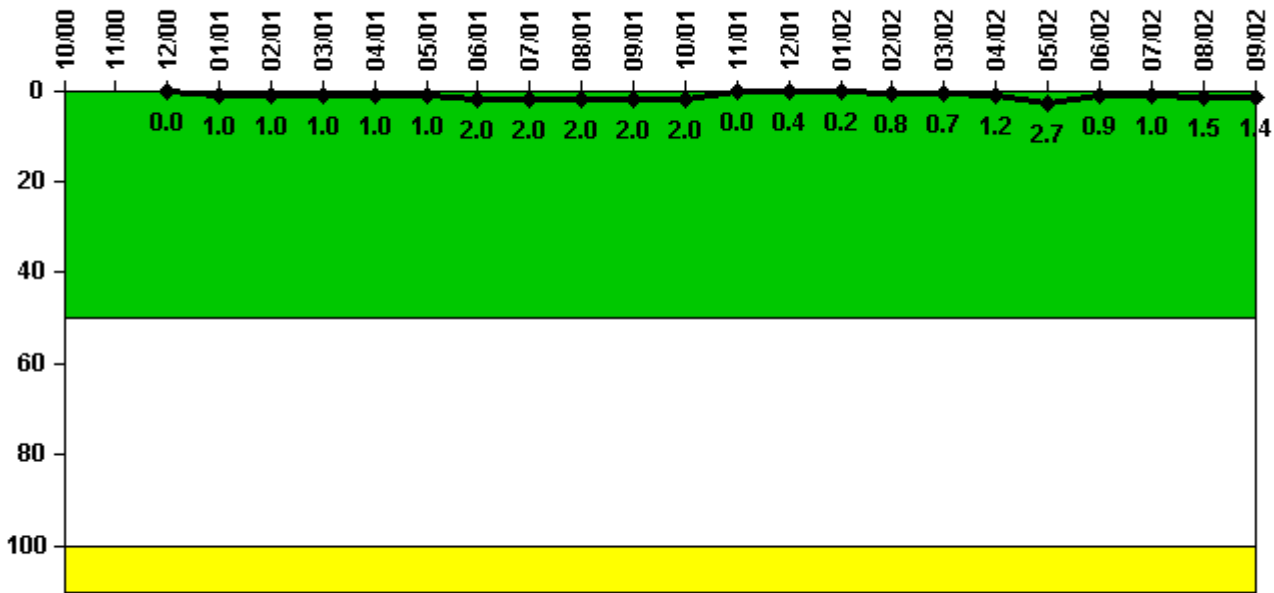
Notes

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum activity	N/A	N/A	N/A	0.000600	0.000700	0.000800	0.000770	0.000790	0.001400	0.001100	0.002700	0.001600
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	N/A	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2

Reactor Coolant System Activity	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum activity	0.002500	0.002900	0.003400	0.003800	0.004300	0.004300	0.004900	0.005800	0.006400	0.006600	0.007200	0.007700
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8

Licensee Comments: none

Reactor Coolant System Leakage



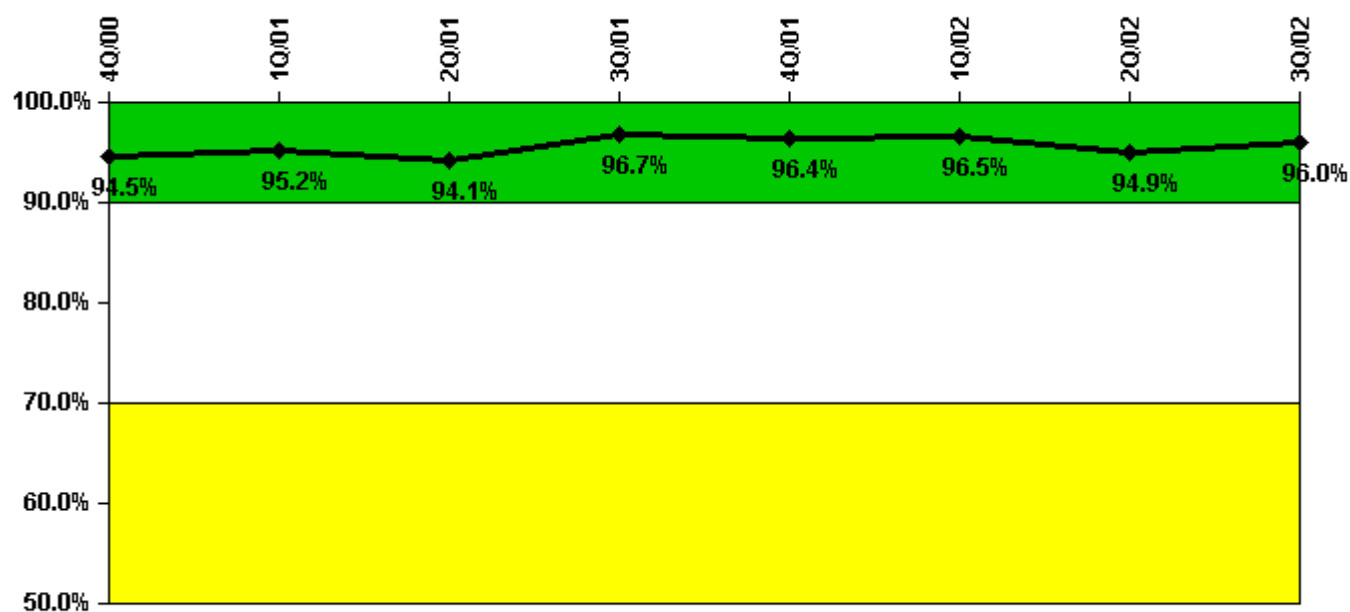
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	N/A	N/A	0	0.100	0.100	0.100	0.100	0.100	0.200	0.200	0.200	0.200
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	N/A	N/A	0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0
Reactor Coolant System Leakage	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum leakage	0.200	0	0.039	0.019	0.077	0.068	0.118	0.269	0.090	0.099	0.154	0.143
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.0	0	0.4	0.2	0.8	0.7	1.2	2.7	0.9	1.0	1.5	1.4

Licensee Comments: none

Drill/Exercise Performance



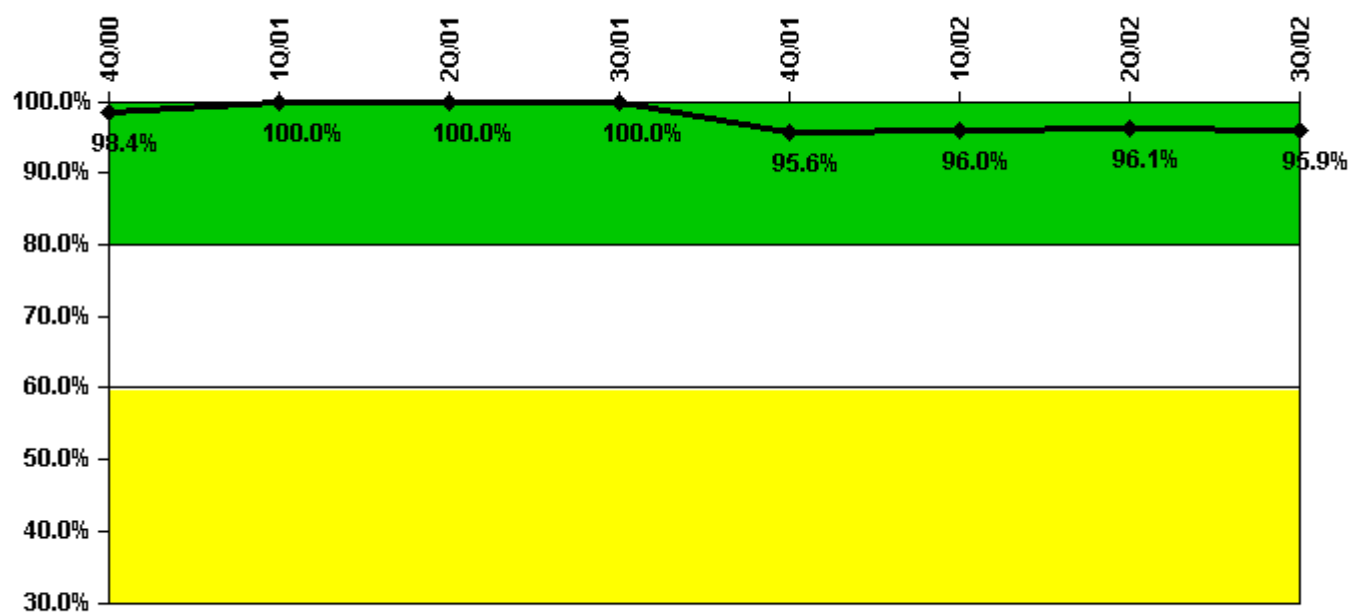
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful opportunities	13.0	28.0	15.0	26.0	10.0	6.0	22.0	50.0
Total opportunities	14.0	29.0	18.0	26.0	10.0	6.0	24.0	50.0
Indicator value	94.5%	95.2%	94.1%	96.7%	96.4%	96.5%	94.9%	96.0%

Licensee Comments: none

ERO Drill Participation



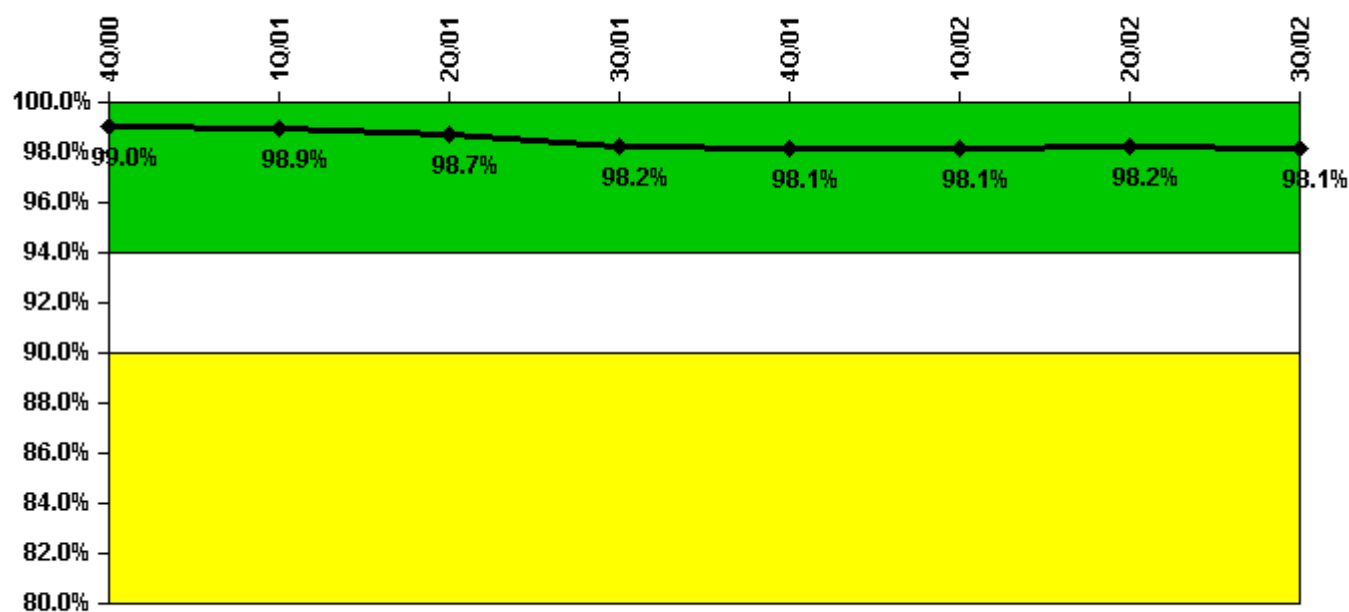
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Participating Key personnel	62.0	48.0	48.0	45.0	43.0	48.0	49.0	47.0
Total Key personnel	63.0	48.0	48.0	45.0	45.0	50.0	51.0	49.0
Indicator value	98.4%	100.0%	100.0%	100.0%	95.6%	96.0%	96.1%	95.9%

Licensee Comments: none

Alert & Notification System



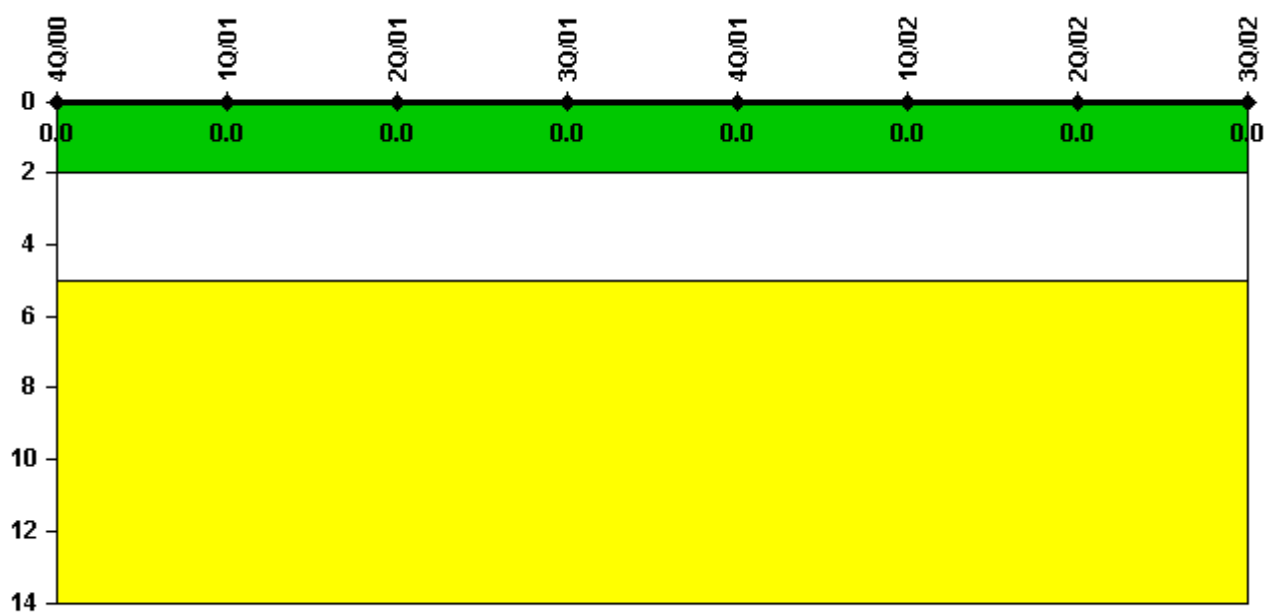
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful siren-tests	906	1069	1062	997	1197	1003	1111	991
Total sirens-tests	924	1078	1078	1029	1222	1011	1124	1029
Indicator value	99.0%	98.9%	98.7%	98.2%	98.1%	98.1%	98.2%	98.1%

Licensee Comments: none

Occupational Exposure Control Effectiveness

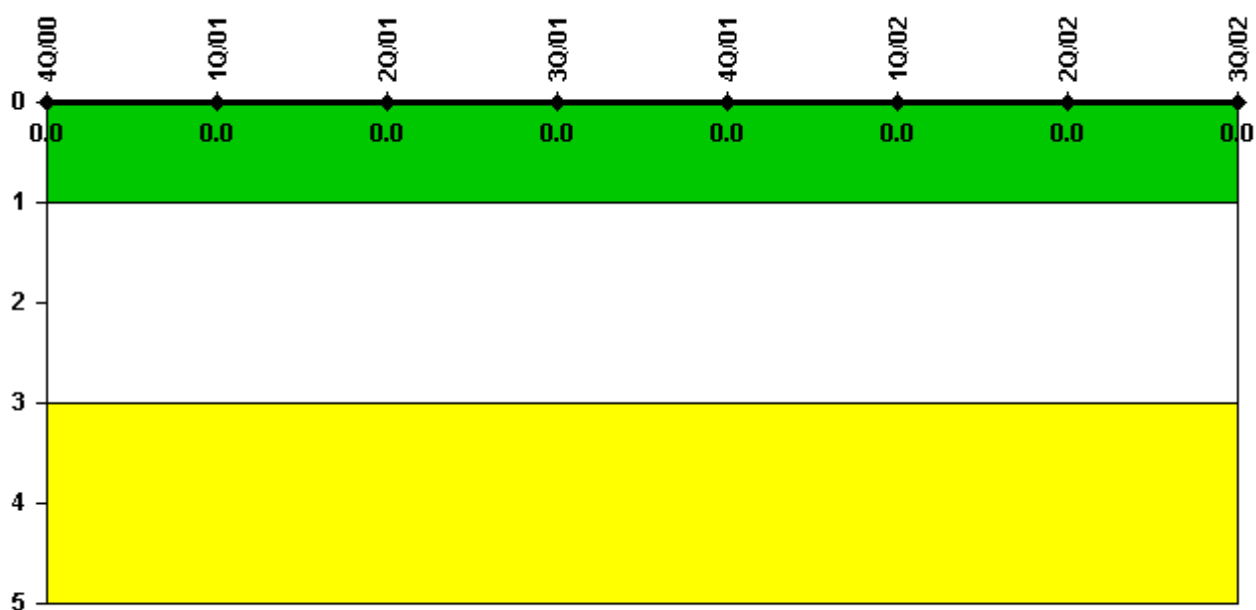


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

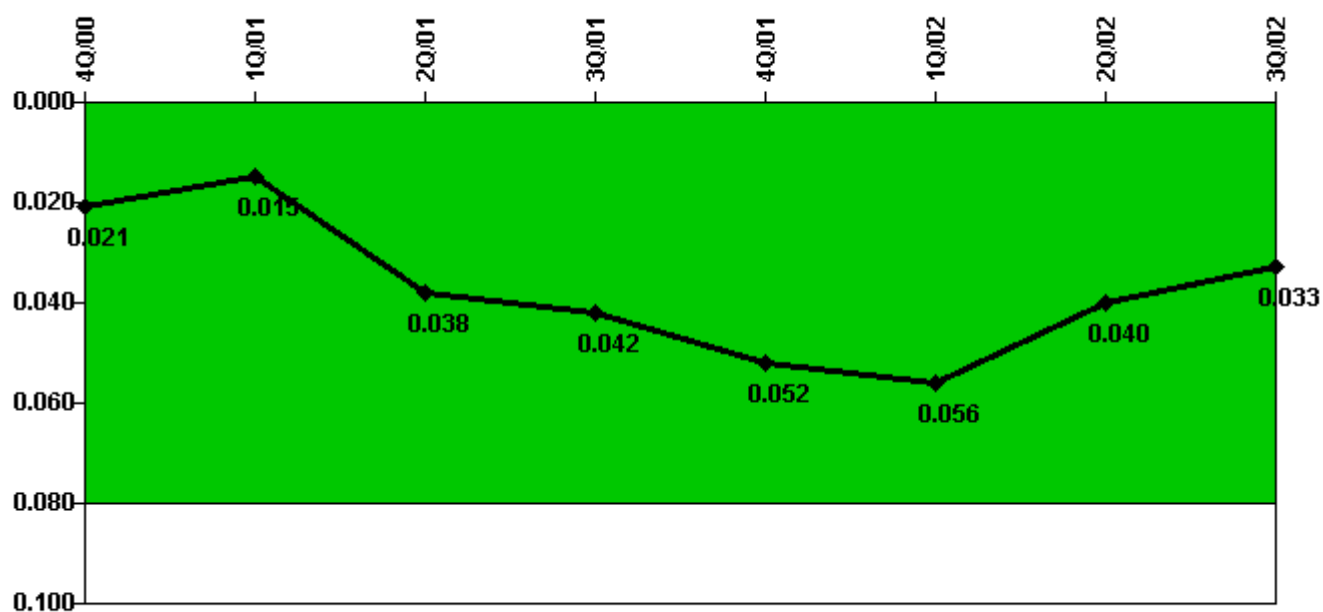
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



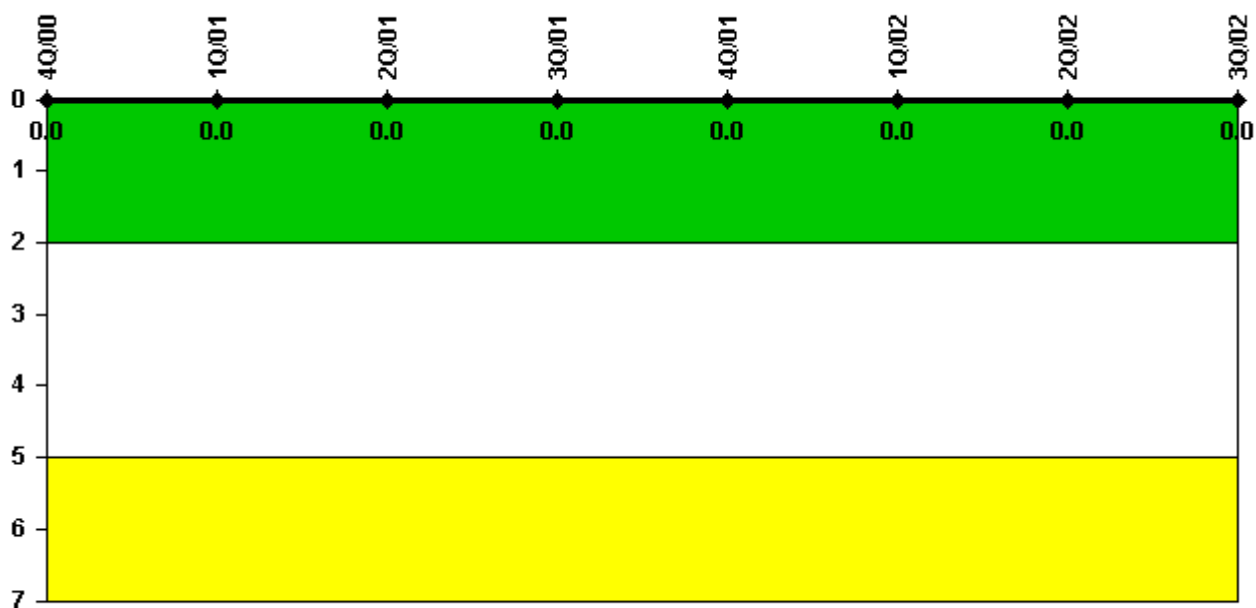
Thresholds: White > 0.080

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	75.92	7.49	238.12	114.83	47.93	34.74	206.95	15.55
CCTV compensatory hours	6.3	21.0	285.2	25.8	219.3	72.6	0	2.4
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	0.021	0.015	0.038	0.042	0.052	0.056	0.040	0.033

Licensee Comments: none

Personnel Screening Program



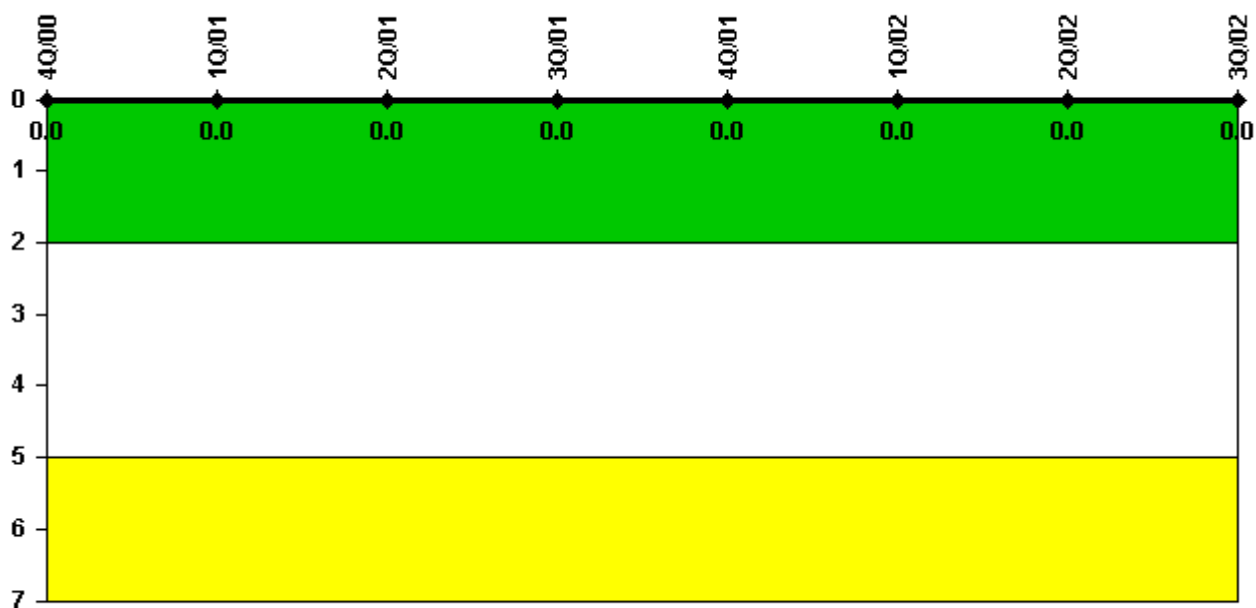
Thresholds: White > 2.0 Yellow > 5.0

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](#)

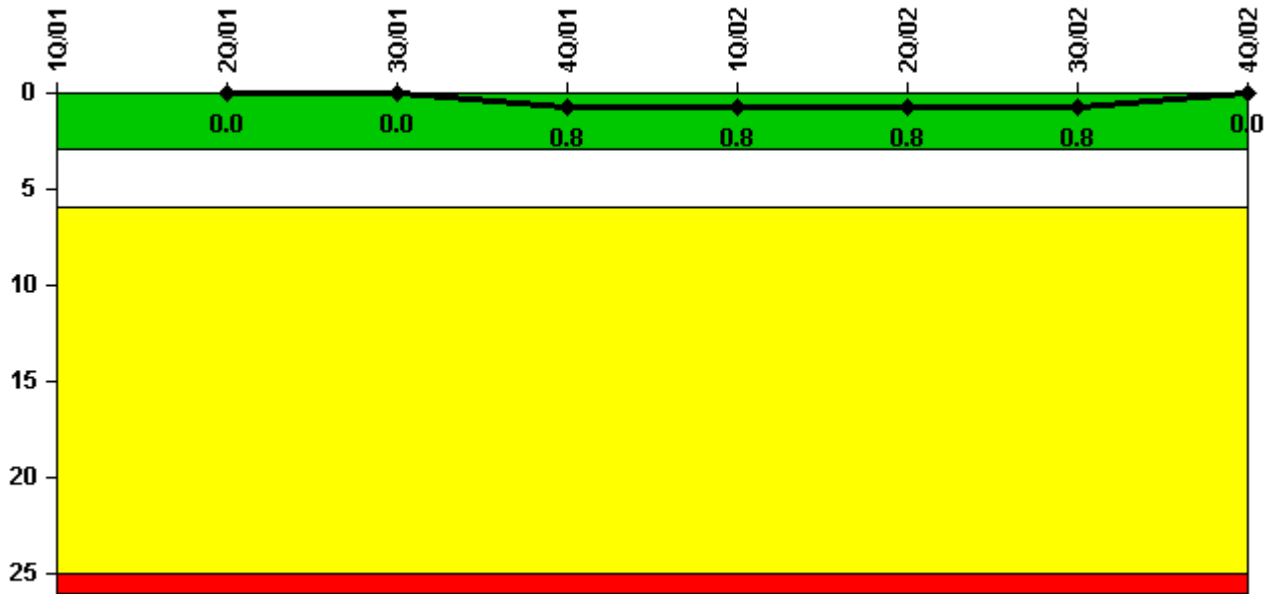
Last Modified: October 22, 2002

Indian Point 2

4Q/2002 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



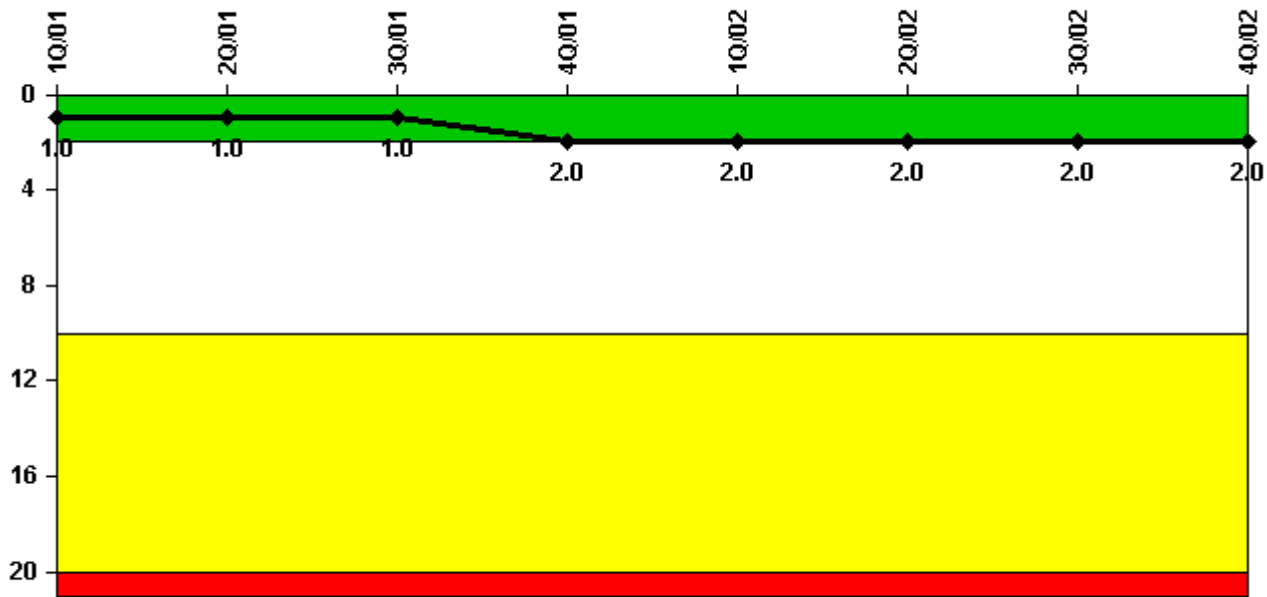
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2160.0	2183.0	2208.0	1963.0	2160.0	2183.0	2208.0	1449.9
Indicator value	N/A	0	0	0.8	0.8	0.8	0.8	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



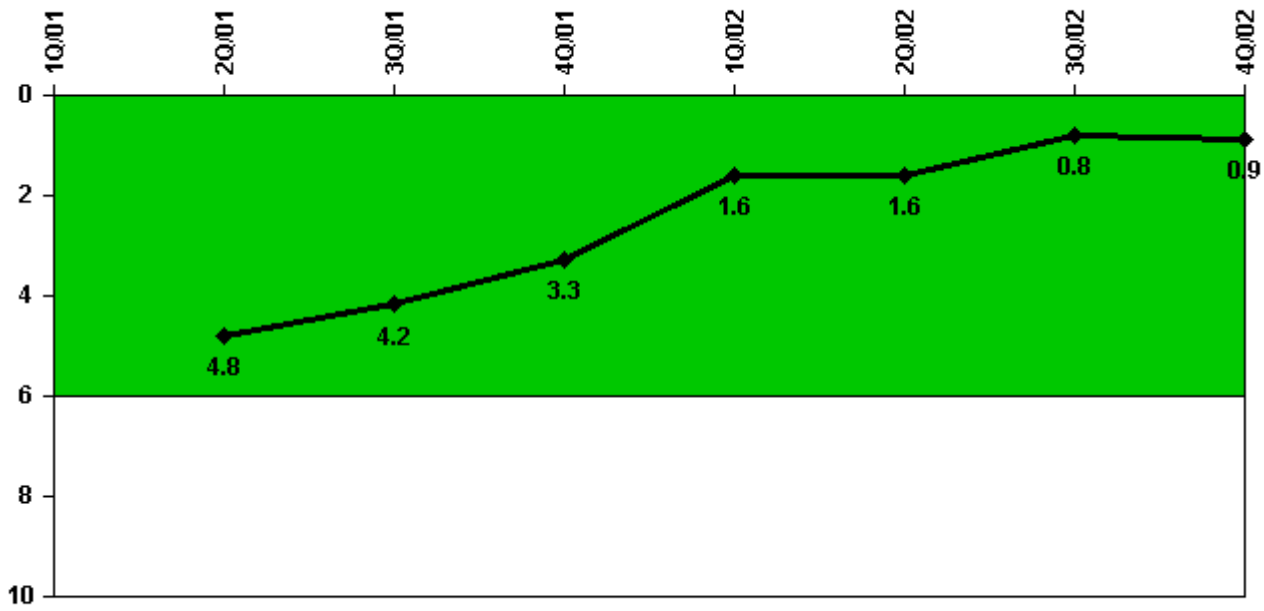
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



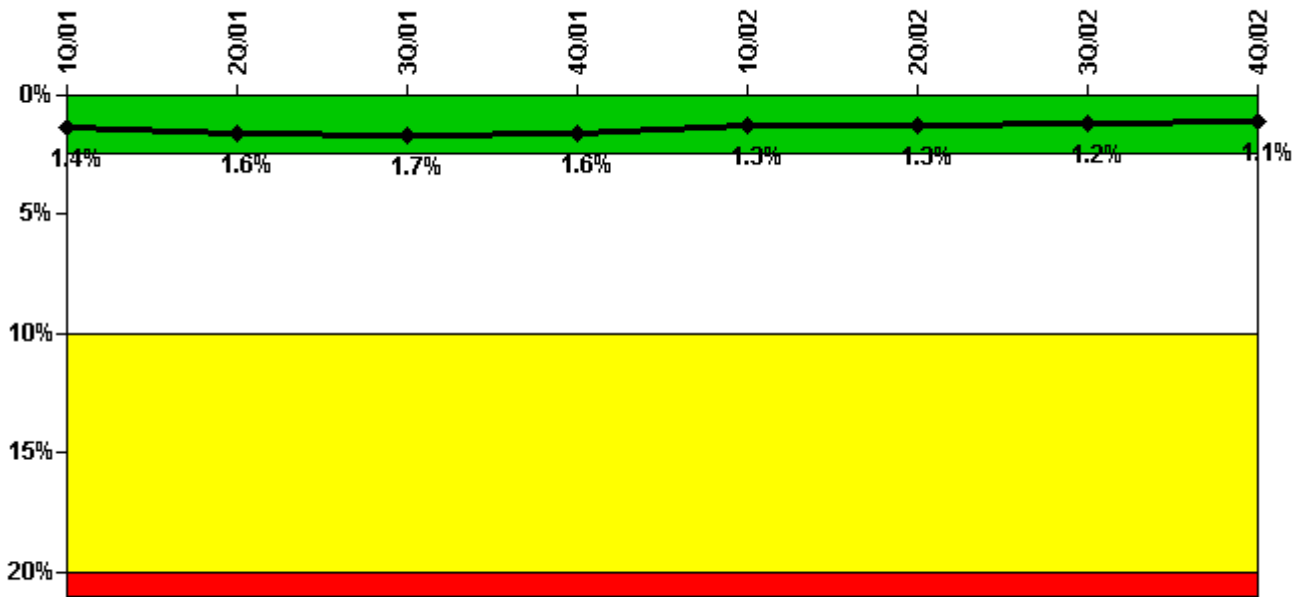
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned power changes	2.0	1.0	1.0	0	0	1.0	0	0
Critical hours	2160.0	2183.0	2208.0	1963.0	2160.0	2183.0	2208.0	1449.9
Indicator value	N/A	4.8	4.2	3.3	1.6	1.6	0.8	0.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



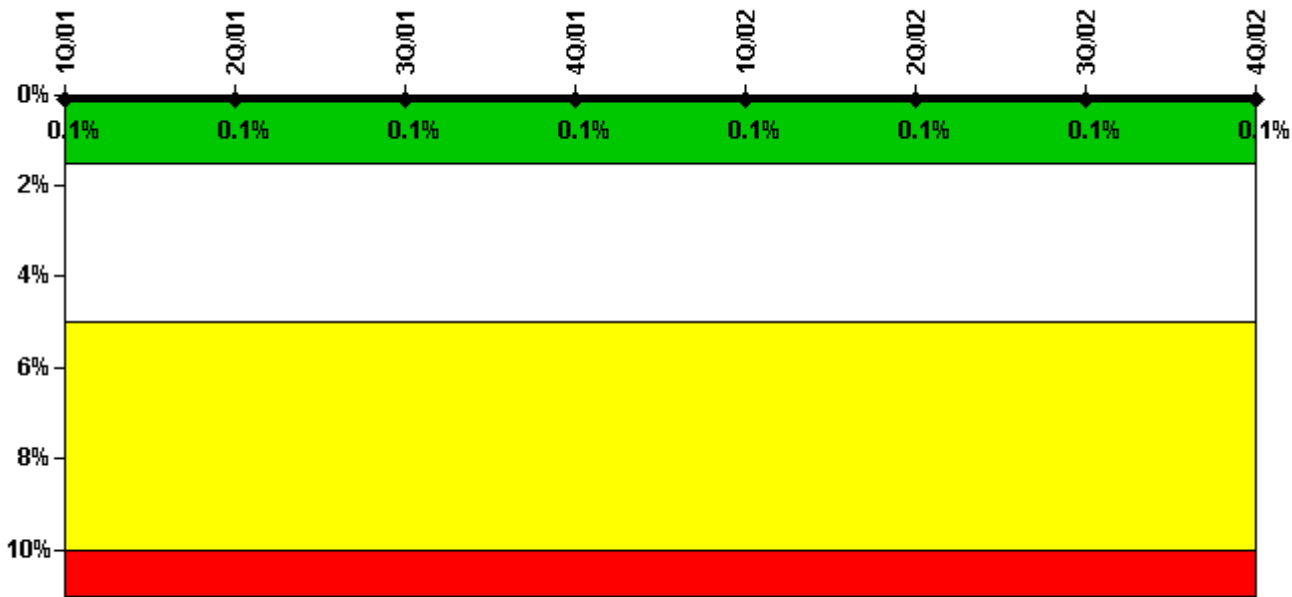
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	7.30	111.65	8.80	0	0	21.17	4.88	0
Unplanned unavailable hours	0.80	32.93	0	0	0.08	0	0	23.97
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	2208.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	125.87	9.92	51.58	0	34.80	0	0	0
Unplanned unavailable hours	0.63	1.03	0	10.20	18.67	0	29.45	4.57
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2208.00	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	81.62	28.93	86.63	0	39.72	0	0	0.60
Unplanned unavailable hours	0.88	29.03	0	4.85	23.08	0	0	28.85
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	1443.93	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2208.00	2160.00	2183.00	2208.00	2209.00
Indicator value	1.4%	1.6%	1.7%	1.6%	1.3%	1.3%	1.2%	1.1%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



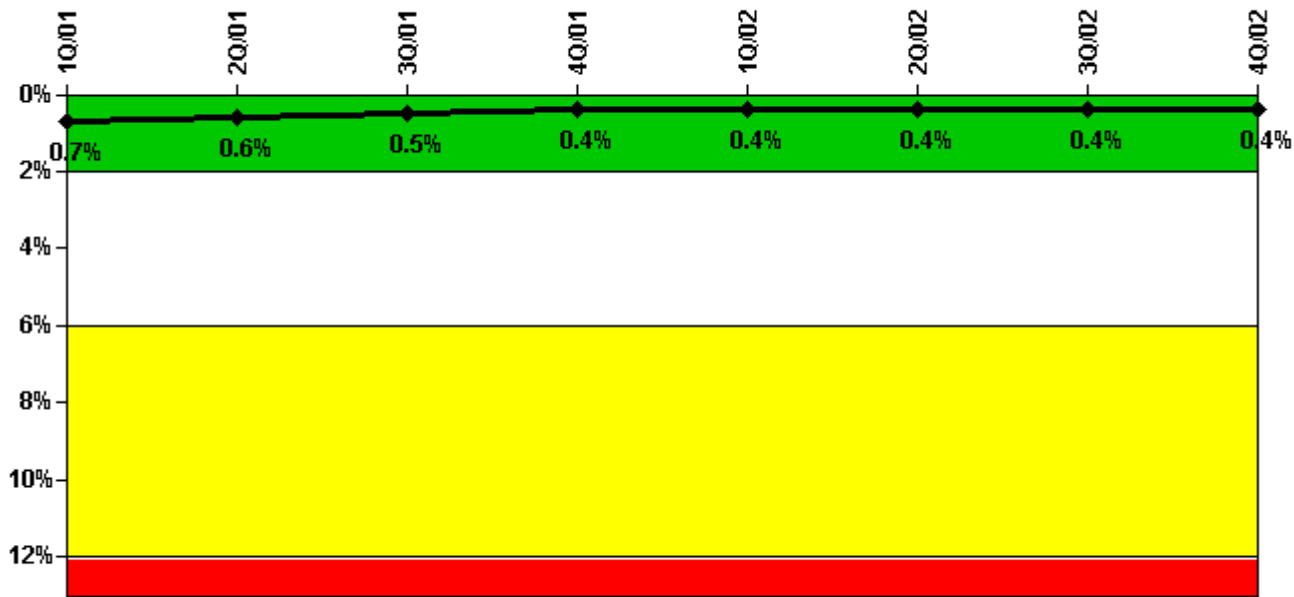
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	1.00	5.50	1.00	0.23	0.68	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0.25	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1962.98	2160.00	2183.00	2208.00	1449.87
Train 2								
Planned unavailable hours	6.00	2.53	6.56	0	0.28	0	1.43	0
Unplanned unavailable hours	0	0	0	0.17	0	13.30	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	2160.00	2183.00	2208.00	1962.98	2160.00	2183.00	2208.00	1449.87
Train 3								
Planned unavailable hours	4.00	0.40	3.83	0.32	0.41	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1962.98	2160.00	2183.00	2208.00	1449.87
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



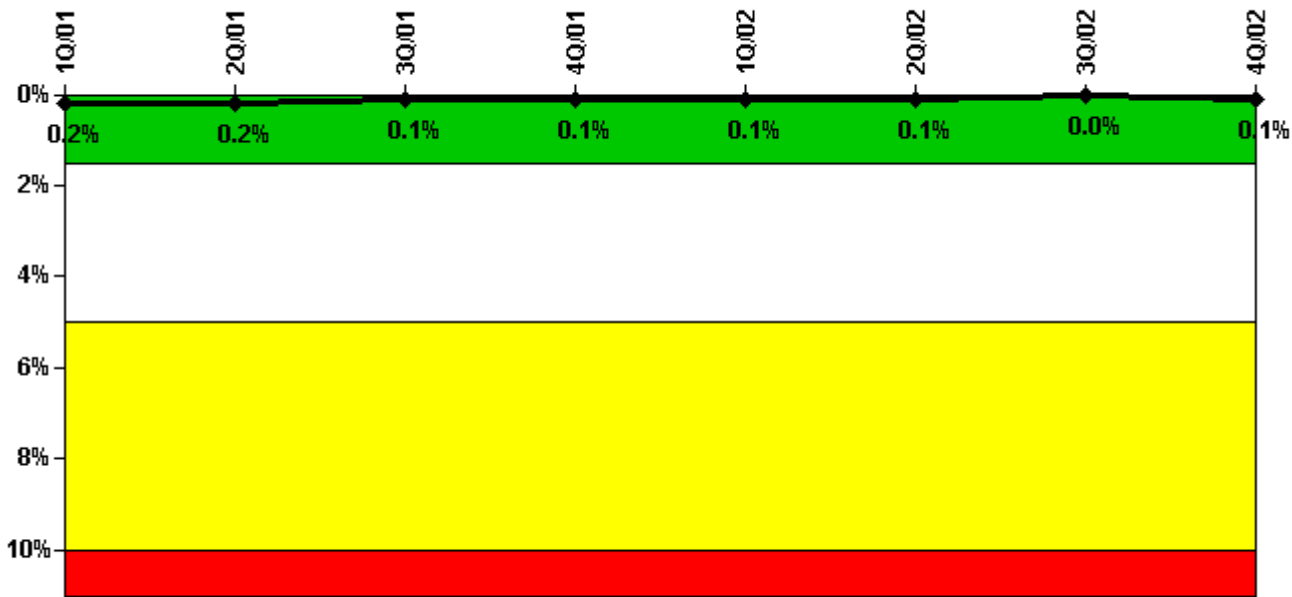
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	5.00	5.10	8.50	0	0.71	0	3.56	6.75
Unplanned unavailable hours	0.40	0	0	12.37	33.75	7.82	0	0
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	1962.98	2160.00	2183.00	2208.00	1449.87
Train 2								
Planned unavailable hours	5.75	5.80	6.17	0.96	2.38	10.00	14.32	0.50
Unplanned unavailable hours	0.42	0	0	1.65	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	2160.00	2183.00	2208.00	1962.98	2160.00	2183.00	2208.00	1449.87
Train 3								
Planned unavailable hours	13.50	2.50	1.30	12.70	0.33	0.51	8.08	0.38
Unplanned unavailable hours	4.42	3.50	0	0	0	0	0	0
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	1962.98	2160.00	2183.00	2208.00	1449.87
Indicator value	0.7%	0.6%	0.5%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



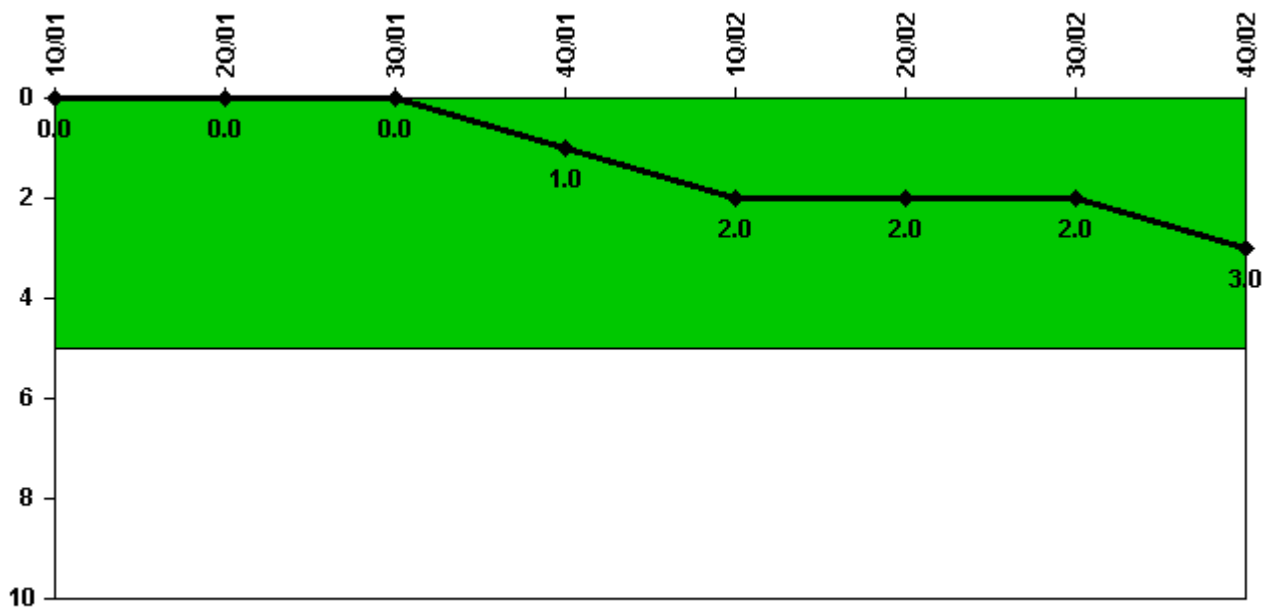
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	8.00	4.50	0.25	0	0.45	0	0.32	0
Unplanned unavailable hours	6.40	0	0	0.17	0	0	0	19.30
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2042.60
Train 2								
Planned unavailable hours	0	0.50	0.08	0	0.86	0	0.57	0
Unplanned unavailable hours	4.50	0	0	0	0	0	0	0
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	2042.60
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0.25	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	1449.87
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	1449.87
Indicator value	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

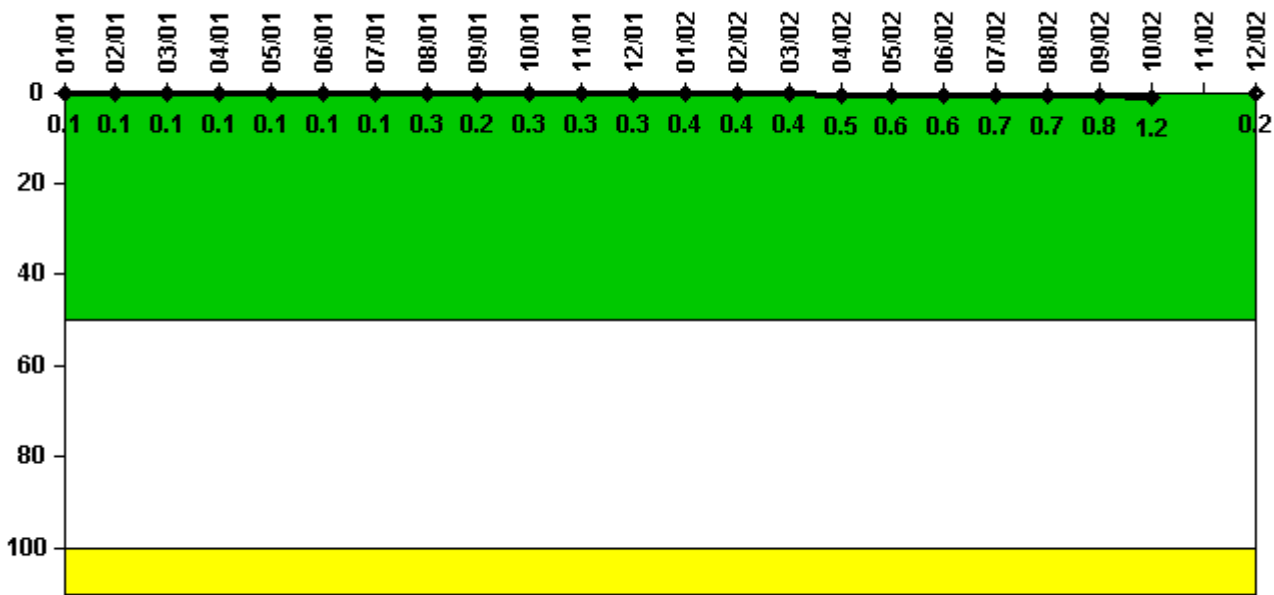
Notes

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

Licensee Comments:

4Q/02: LER-2002-005 and LER-2002-006

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

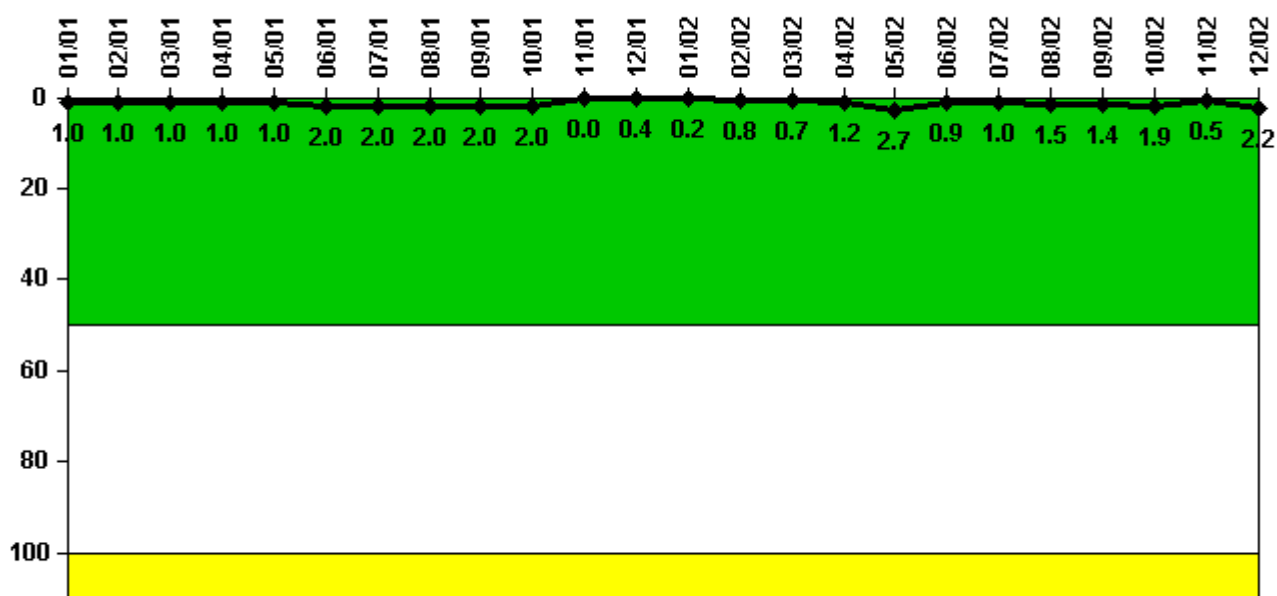
Reactor Coolant System Activity	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum activity	0.000600	0.000700	0.000800	0.000770	0.000790	0.001400	0.001100	0.002700	0.001600	0.002500	0.002900	0.003400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.2	0.3	0.3	0.3

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	0.003800	0.004300	0.004300	0.004900	0.005800	0.006400	0.006600	0.007200	0.007700	0.012000	N/A	0.001600
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	1.2	N/A	0.2

Licensee Comments:

12/02: The unit returned to service after the 2R15 refueling outage. A steady state power level above 5% that did not vary by more than +/- 5% for at least 72 hours was not maintained during power ascension for the month of November 2002.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

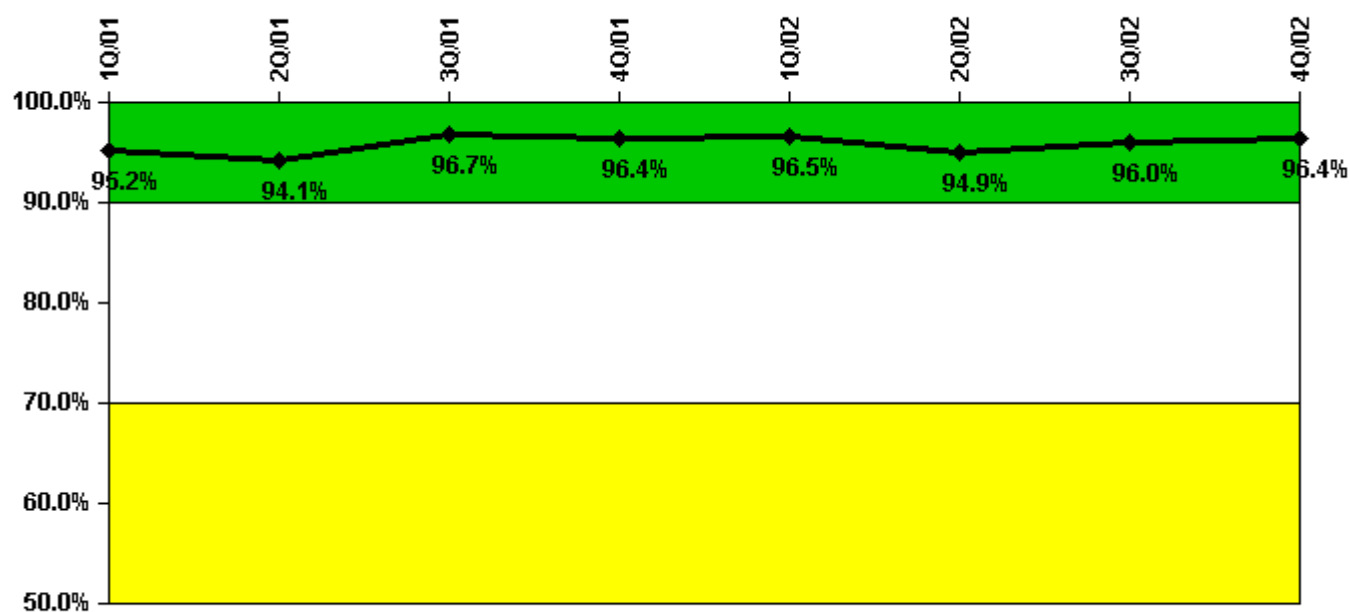
Notes

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	0.100	0.100	0.100	0.100	0.100	0.200	0.200	0.200	0.200	0.200	0	0.039
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	0	0.4

Reactor Coolant System Leakage	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum leakage	0.019	0.077	0.068	0.118	0.269	0.090	0.099	0.154	0.143	0.190	0.052	0.224
Technical specification limit	10.0	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	0.8	0.7	1.2	2.7	0.9	1.0	1.5	1.4	1.9	0.5	2.2

Licensee Comments: none

Drill/Exercise Performance



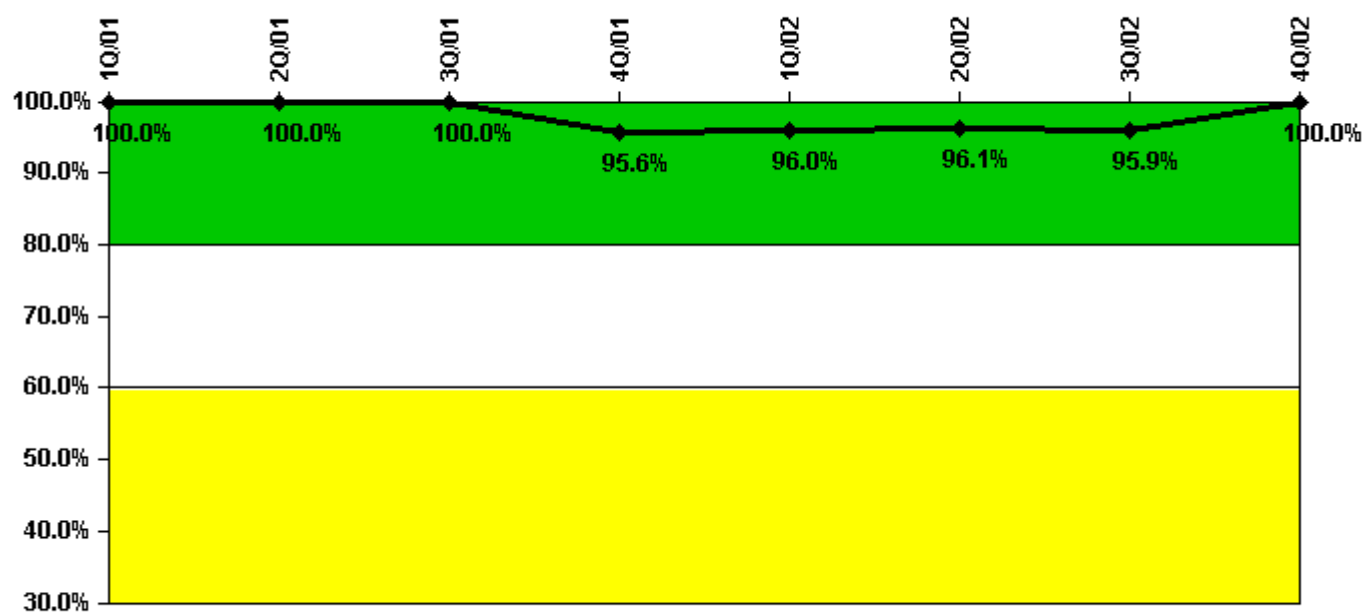
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful opportunities	28.0	15.0	26.0	10.0	6.0	22.0	50.0	2.0
Total opportunities	29.0	18.0	26.0	10.0	6.0	24.0	50.0	2.0
Indicator value	95.2%	94.1%	96.7%	96.4%	96.5%	94.9%	96.0%	96.4%

Licensee Comments: none

ERO Drill Participation



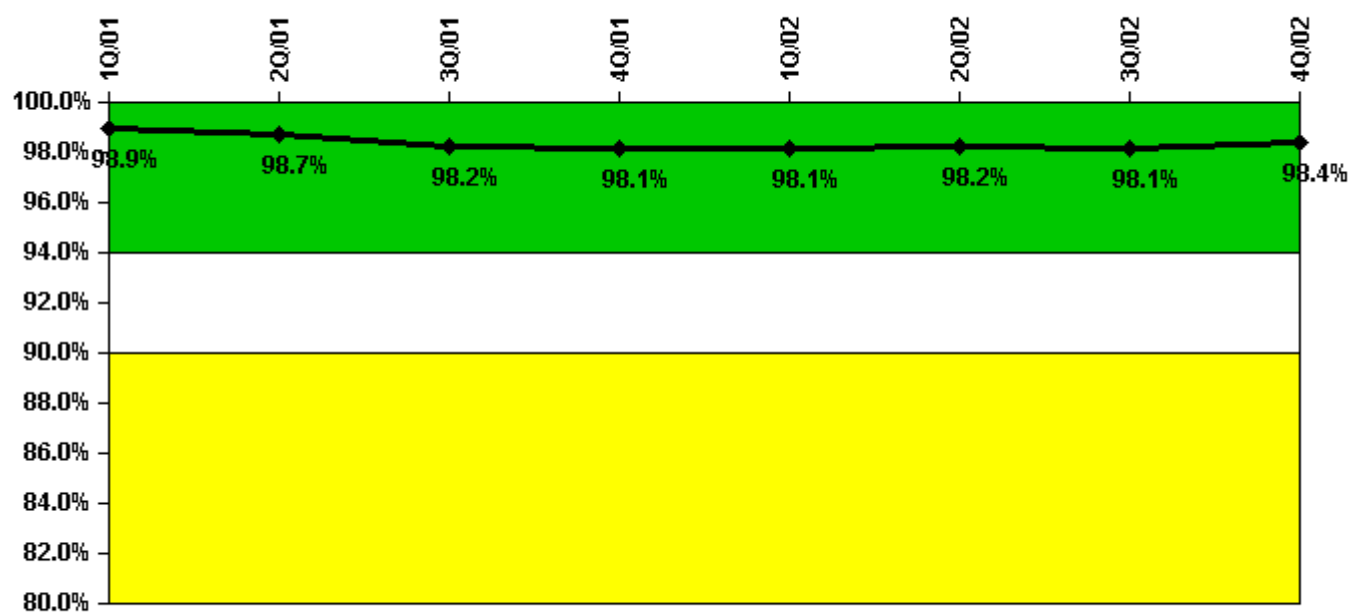
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Participating Key personnel	48.0	48.0	45.0	43.0	48.0	49.0	47.0	50.0
Total Key personnel	48.0	48.0	45.0	45.0	50.0	51.0	49.0	50.0
Indicator value	100.0%	100.0%	100.0%	95.6%	96.0%	96.1%	95.9%	100.0%

Licensee Comments: none

Alert & Notification System



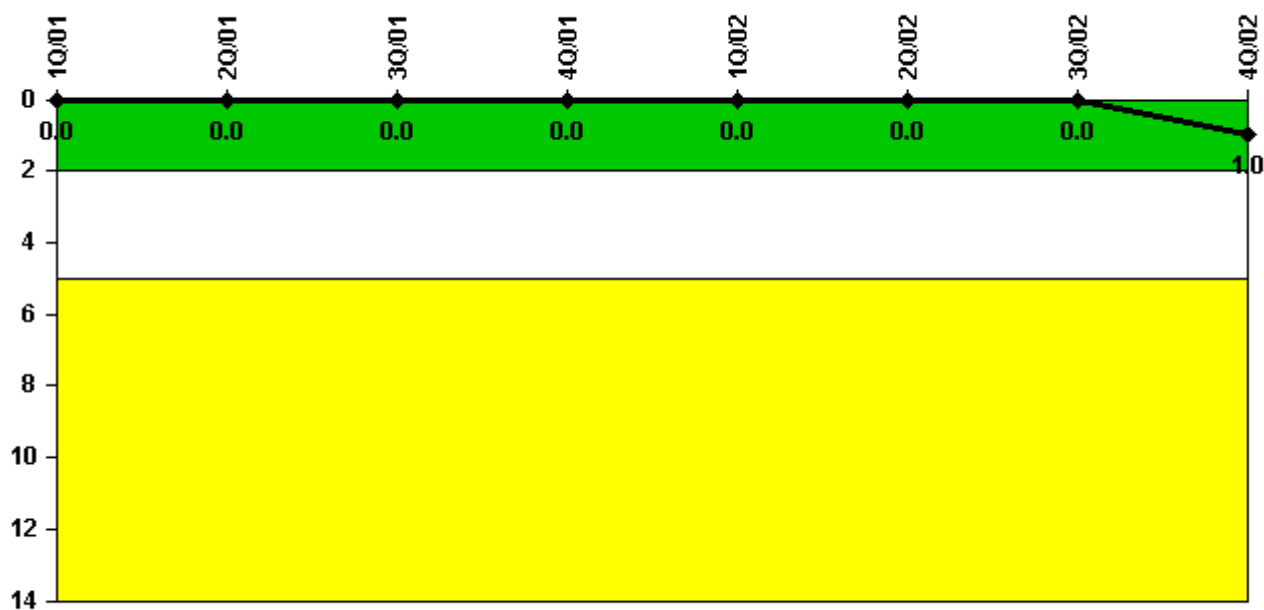
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful siren-tests	1069	1062	997	1197	1003	1111	991	1267
Total sirens-tests	1078	1078	1029	1222	1011	1124	1029	1277
Indicator value	98.9%	98.7%	98.2%	98.1%	98.1%	98.2%	98.1%	98.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness



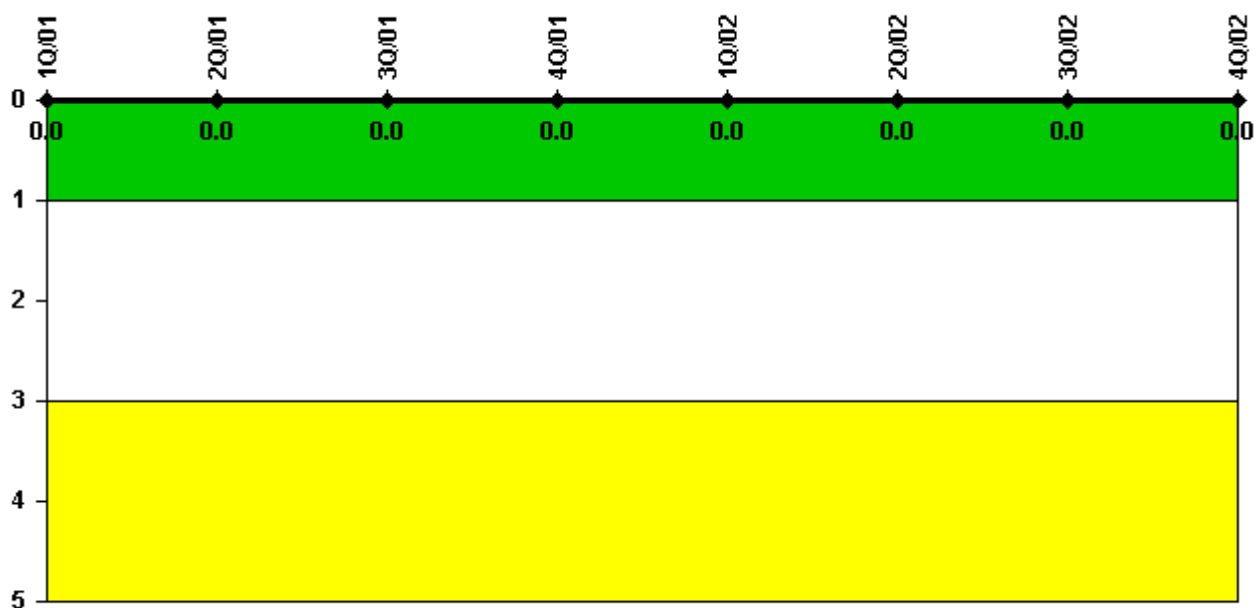
Thresholds: White > 2.0 Yellow > 5.0

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	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:

4Q/02: October 27, 2002 - Improper control of potential access to Regen Heat Exchanger identified. No Individuals entered the area and no excessive dose was received. Indicator trend remains within green threshold.

RETS/ODCM Radiological Effluent

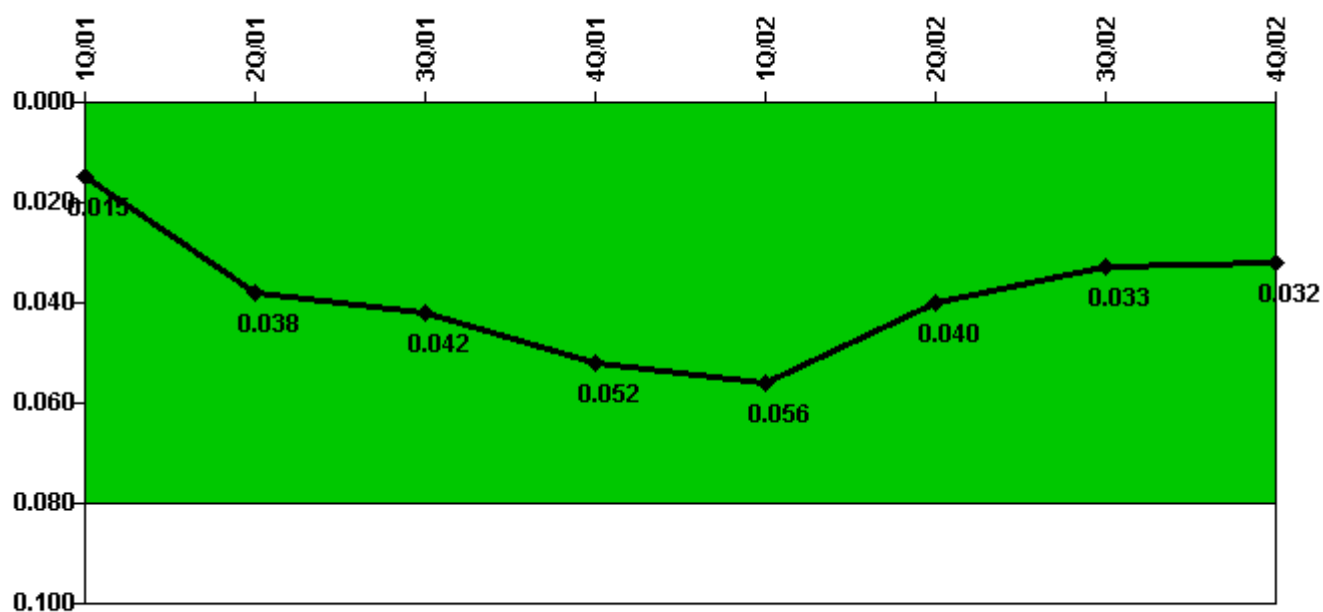
Thresholds: White > 1.0 Yellow > 3.0

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



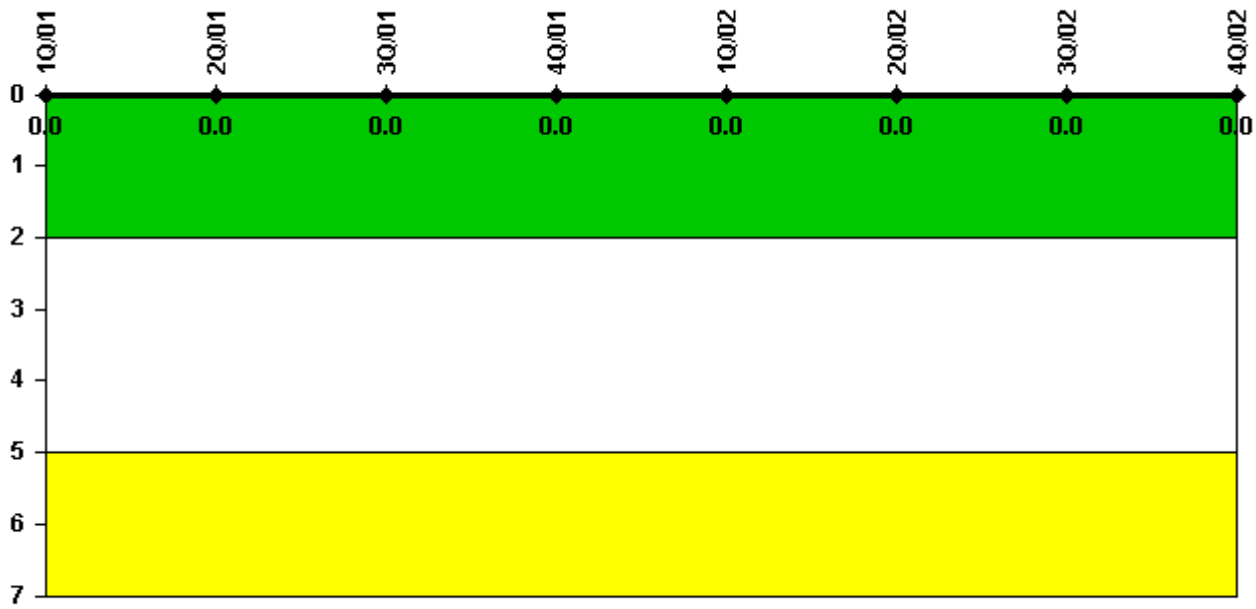
Thresholds: White > 0.080

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	7.49	238.12	114.83	47.93	34.74	206.95	15.55	82.72
CCTV compensatory hours	21.0	285.2	25.8	219.3	72.6	0	2.4	159.2
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	0.015	0.038	0.042	0.052	0.056	0.040	0.033	0.032

Licensee Comments: none

Personnel Screening Program



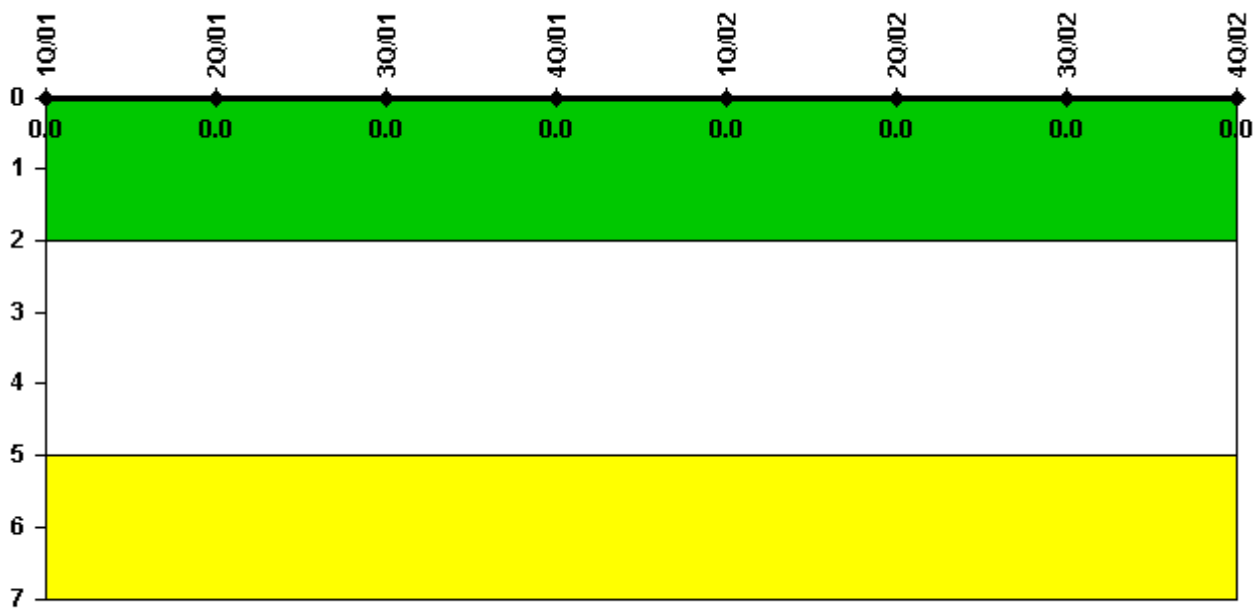
Thresholds: White > 2.0 Yellow > 5.0

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

Indian Point 2

1Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



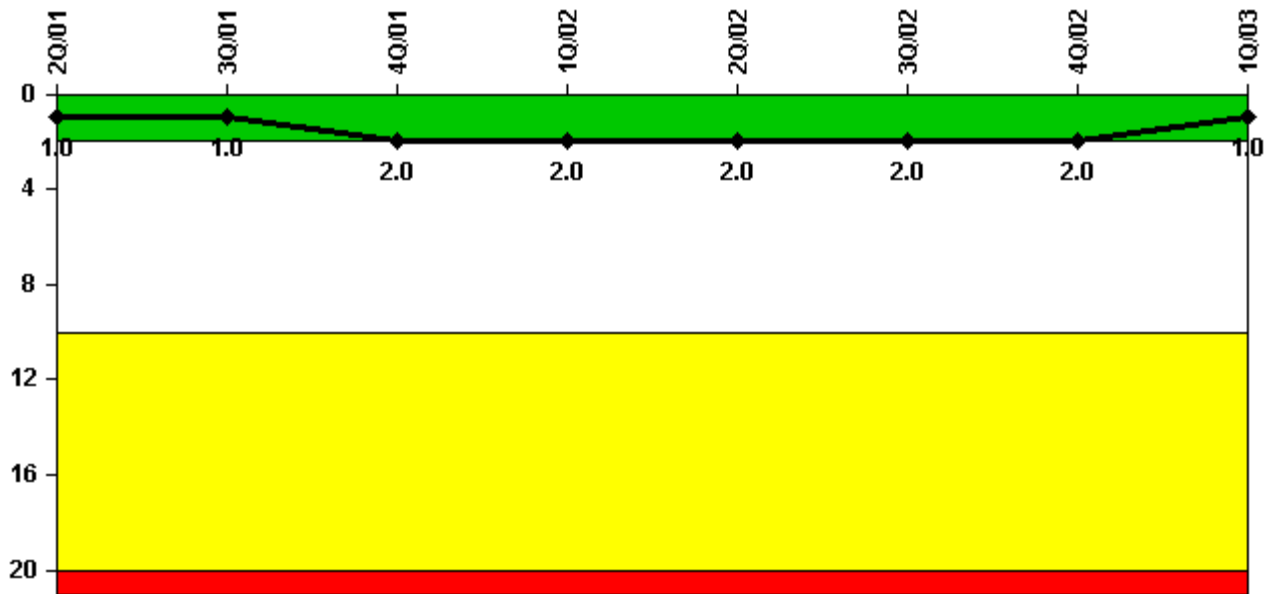
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2183.0	2208.0	1963.0	2160.0	2183.0	2208.0	1449.9	2160.0
Indicator value	0	0	0.8	0.8	0.8	0.8	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



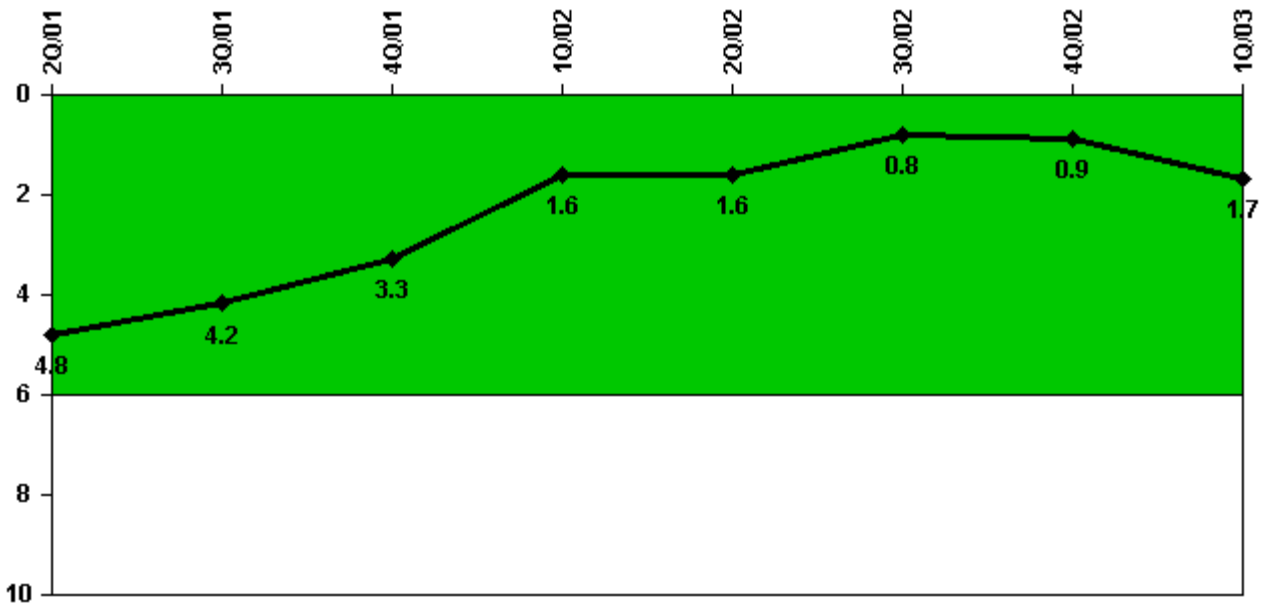
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



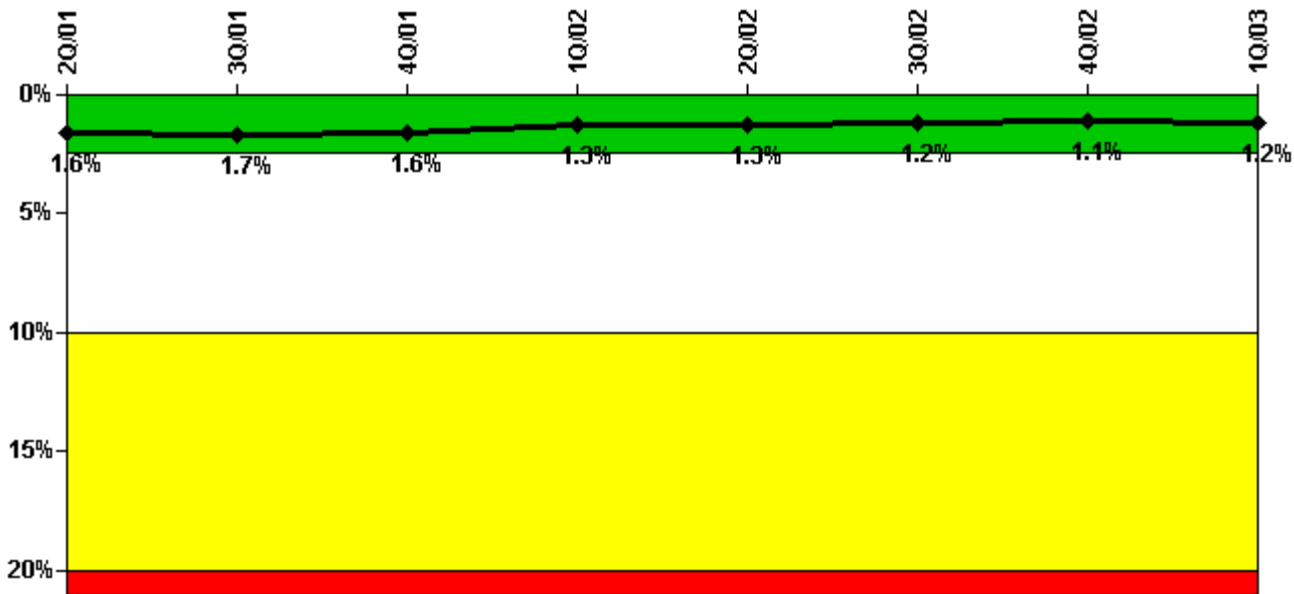
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned power changes	1.0	1.0	0	0	1.0	0	0	1.0
Critical hours	2183.0	2208.0	1963.0	2160.0	2183.0	2208.0	1449.9	2160.0
Indicator value	4.8	4.2	3.3	1.6	1.6	0.8	0.9	1.7

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



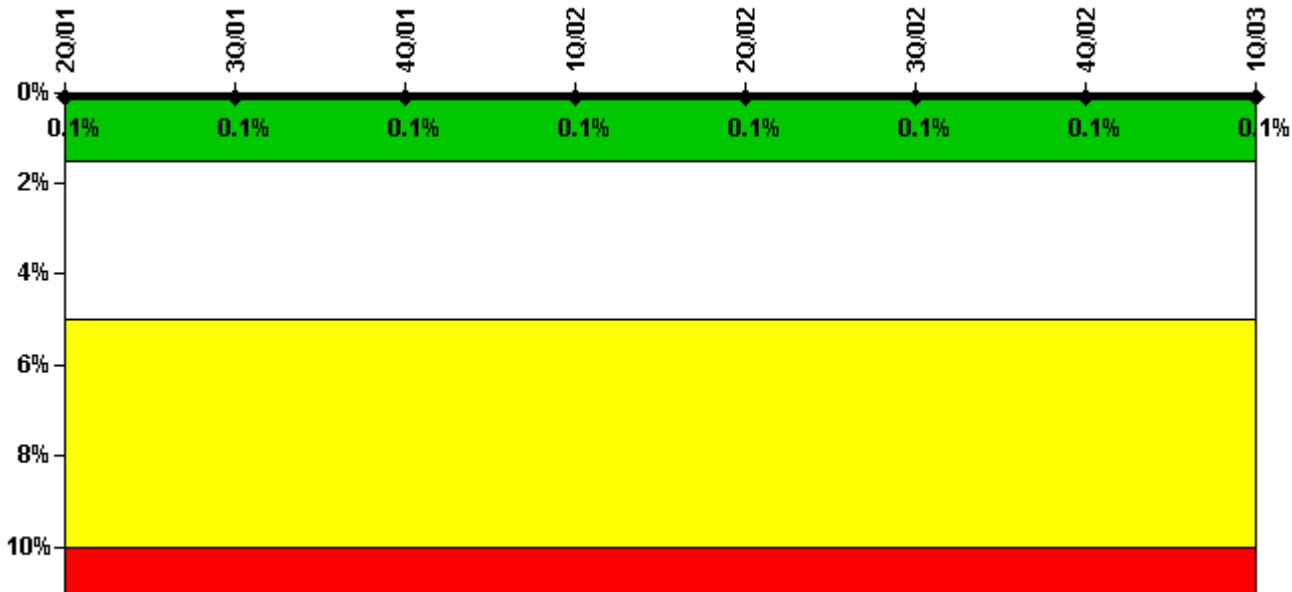
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	111.65	8.80	0	0	21.17	4.88	0	68.27
Unplanned unavailable hours	32.93	0	0	0.08	0	0	23.97	0
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	2208.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	9.92	51.58	0	34.80	0	0	0	2.00
Unplanned unavailable hours	1.03	0	10.20	18.67	0	29.45	4.57	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	2183.00	2208.00	2208.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	28.93	86.63	0	39.72	0	0	0.60	0.22
Unplanned unavailable hours	29.03	0	4.85	23.08	0	0	28.85	46.16
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	2208.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	1.6%	1.7%	1.6%	1.3%	1.3%	1.2%	1.1%	1.2%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



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

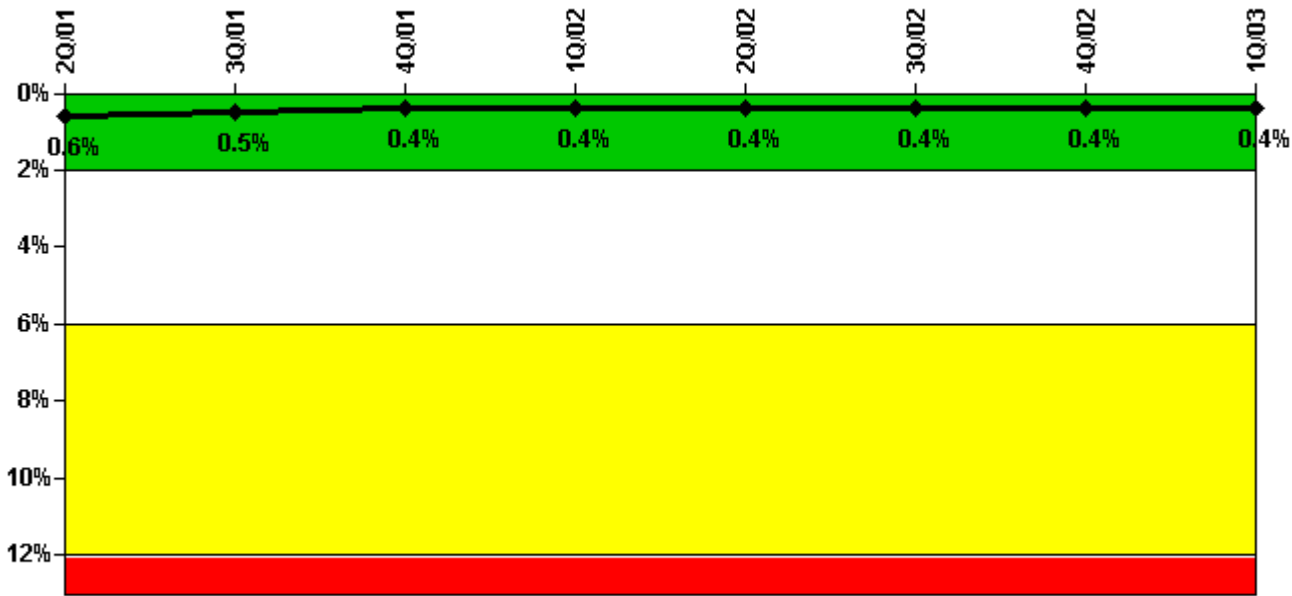
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	5.50	1.00	0.23	0.68	0	0	0	6.00
Unplanned unavailable hours	0	0	0	0	0	0.25	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00
Train 2								
Planned unavailable hours	2.53	6.56	0	0.28	0	1.43	0	0.50
Unplanned unavailable hours	0	0	0.17	0	13.30	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00
Train 3								
Planned unavailable hours	0.40	3.83	0.32	0.41	0	0	0	7.20
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00

Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

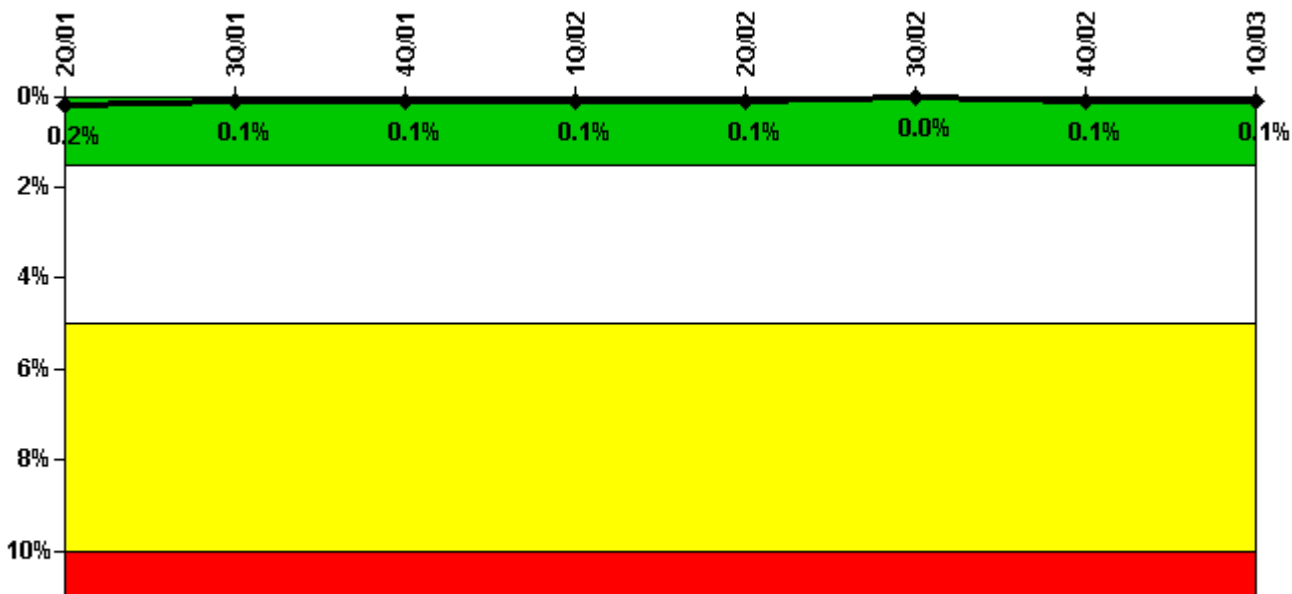
Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	5.10	8.50	0	0.71	0	3.56	6.75	18.75
Unplanned unavailable hours	0	0	12.37	33.75	7.82	0	0	0
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	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00
Train 2								
Planned unavailable hours	5.80	6.17	0.96	2.38	10.00	14.32	0.50	19.63
Unplanned unavailable hours	0	0	1.65	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	2183.00	2208.00	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00
Train 3								
Planned unavailable hours	2.50	1.30	12.70	0.33	0.51	8.08	0.38	4.50
Unplanned unavailable hours	3.50	0	0	0	0	0	0	0

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	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00
Indicator value	0.6%	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%

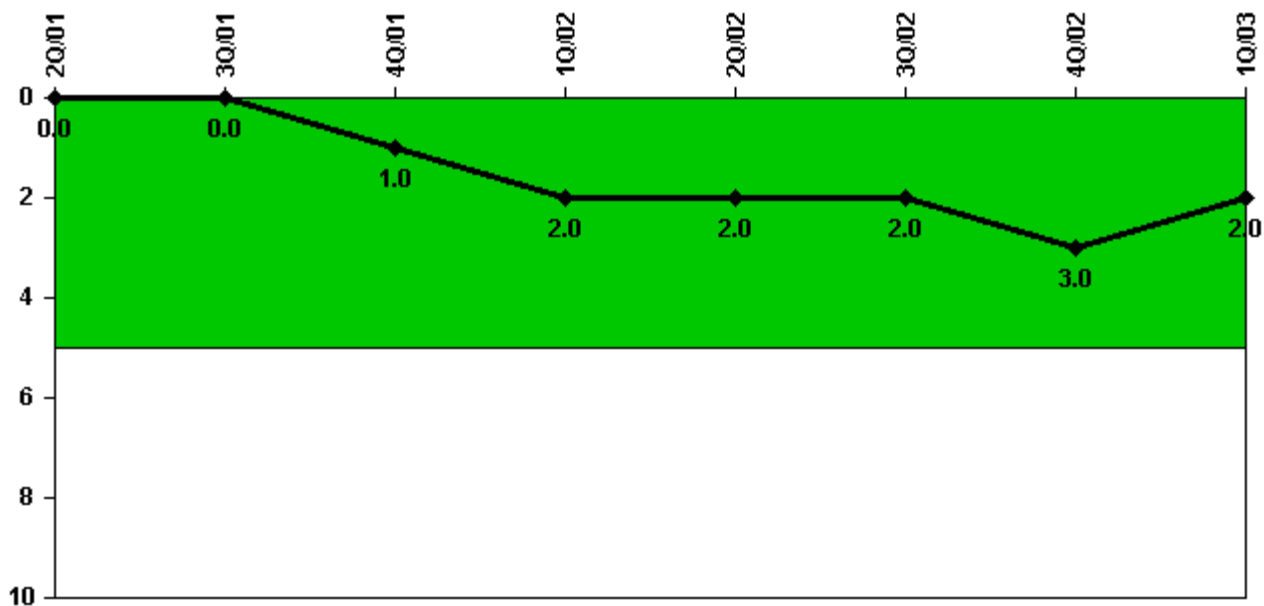
Notes

Safety System Unavailability, Residual Heat Removal System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	4.50	0.25	0	0.45	0	0.32	0	5.50
Unplanned unavailable hours	0	0	0.17	0	0	0	19.30	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	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2042.60	2160.00
Train 2								
Planned unavailable hours	0.50	0.08	0	0.86	0	0.57	0	5.80
Unplanned unavailable hours	0	0	0	0	0	0	0	24.00
Fault exposure hours	0	0	0	0	0	0	0	3.00
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	2042.60	2160.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0.25	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	1449.87	2160.00
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	24.00
Fault exposure hours	0	0	0	0	0	0	0	3.00
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	1449.87	2160.00
Indicator value	0.2%	0.1%	0.1%	0.1%	0.1%	0%	0.1%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

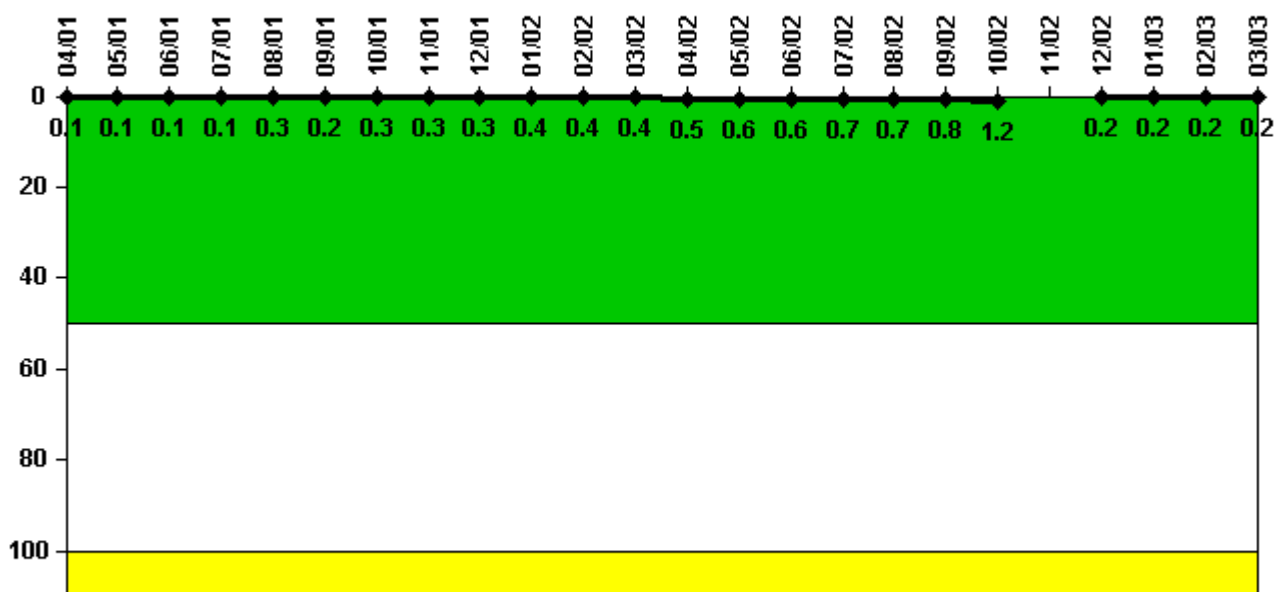
Notes

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

Indicator value	0	0	1	2	2	2	3	2

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

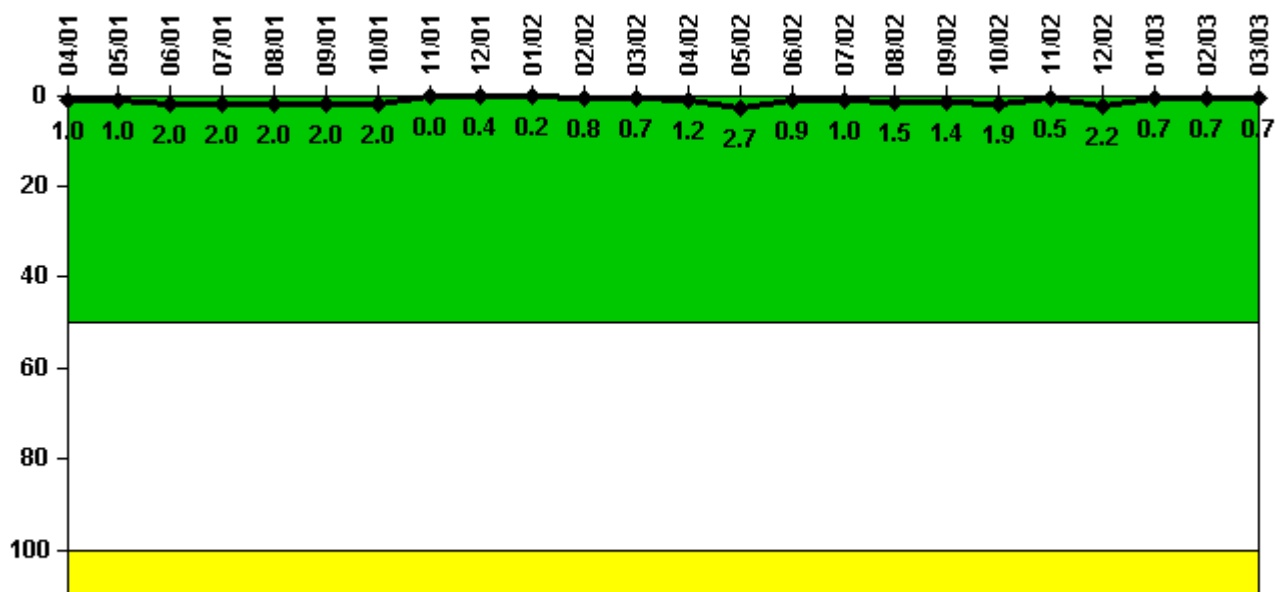
Notes

Reactor Coolant System Activity	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum activity	0.000770	0.000790	0.001400	0.001100	0.002700	0.001600	0.002500	0.002900	0.003400	0.003800	0.004300	0.004300
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.4

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	0.004900	0.005800	0.006400	0.006600	0.007200	0.007700	0.012000	N/A	0.001600	0.001800	0.001900	0.002100
Technical specification limit	1.0	1.0	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	0.7	0.7	0.8	1.2	N/A	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

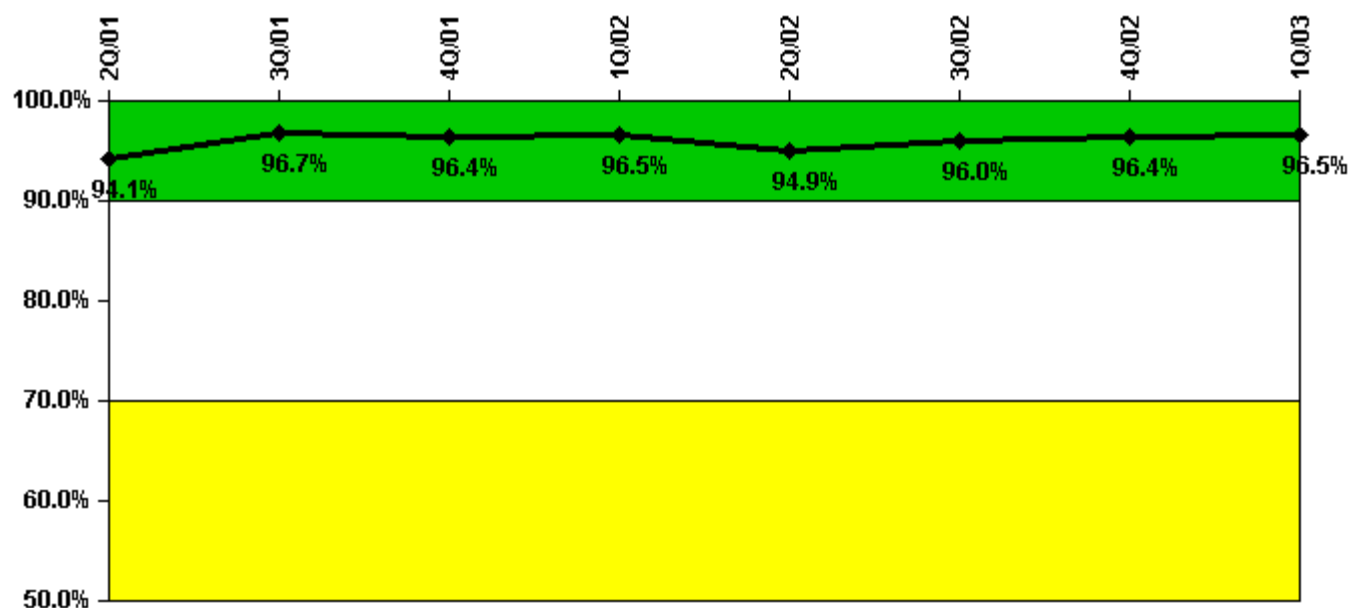
Notes

Reactor Coolant System Leakage	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum leakage	0.100	0.100	0.200	0.200	0.200	0.200	0.200	0	0.039	0.019	0.077	0.068
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.0	2.0	2.0	2.0	2.0	2.0	0	0.4	0.2	0.8	0.7

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	0.118	0.269	0.090	0.099	0.154	0.143	0.190	0.052	0.224	0.067	0.070	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.2	2.7	0.9	1.0	1.5	1.4	1.9	0.5	2.2	0.7	0.7	0.7

Licensee Comments: none

Drill/Exercise Performance



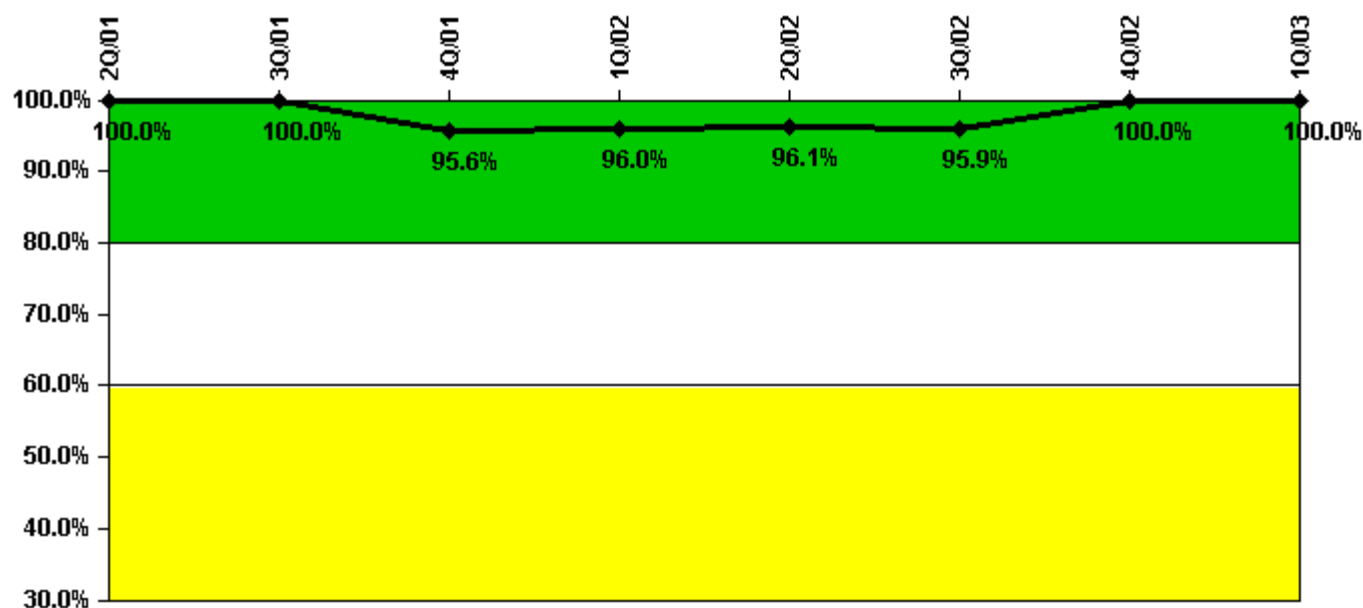
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful opportunities	15.0	26.0	10.0	6.0	22.0	50.0	2.0	7.0
Total opportunities	18.0	26.0	10.0	6.0	24.0	50.0	2.0	7.0
Indicator value	94.1%	96.7%	96.4%	96.5%	94.9%	96.0%	96.4%	96.5%

Licensee Comments: none

ERO Drill Participation



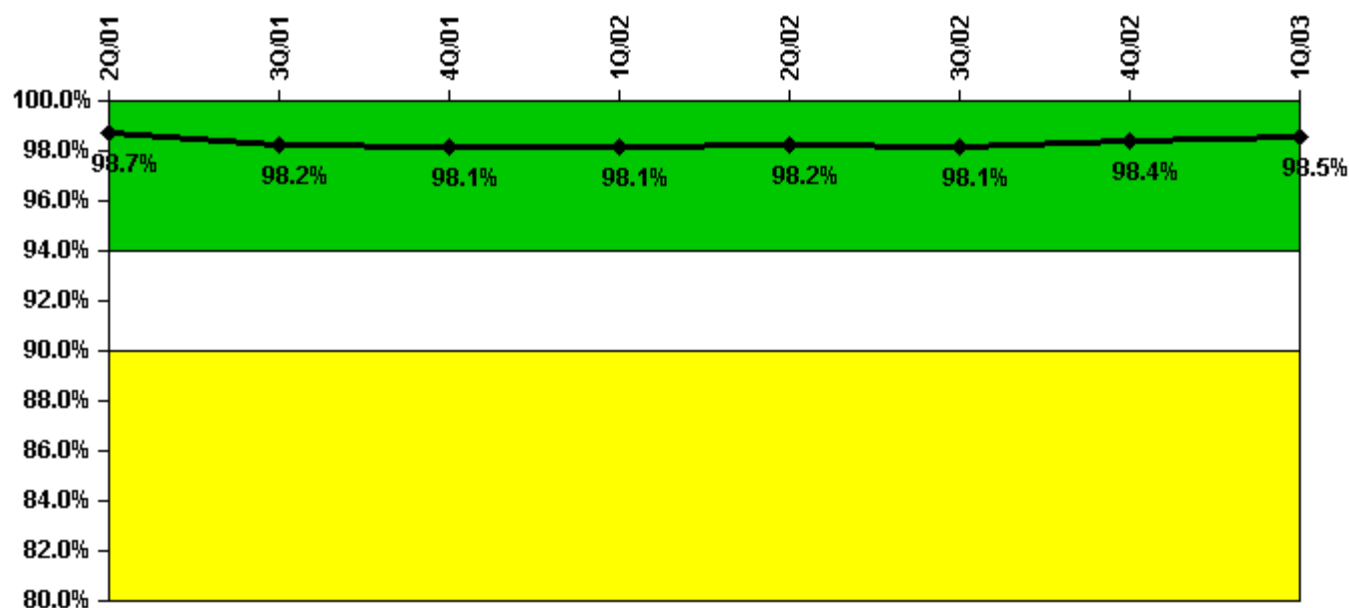
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Participating Key personnel	48.0	45.0	43.0	48.0	49.0	47.0	50.0	53.0
Total Key personnel	48.0	45.0	45.0	50.0	51.0	49.0	50.0	53.0
Indicator value	100.0%	100.0%	95.6%	96.0%	96.1%	95.9%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



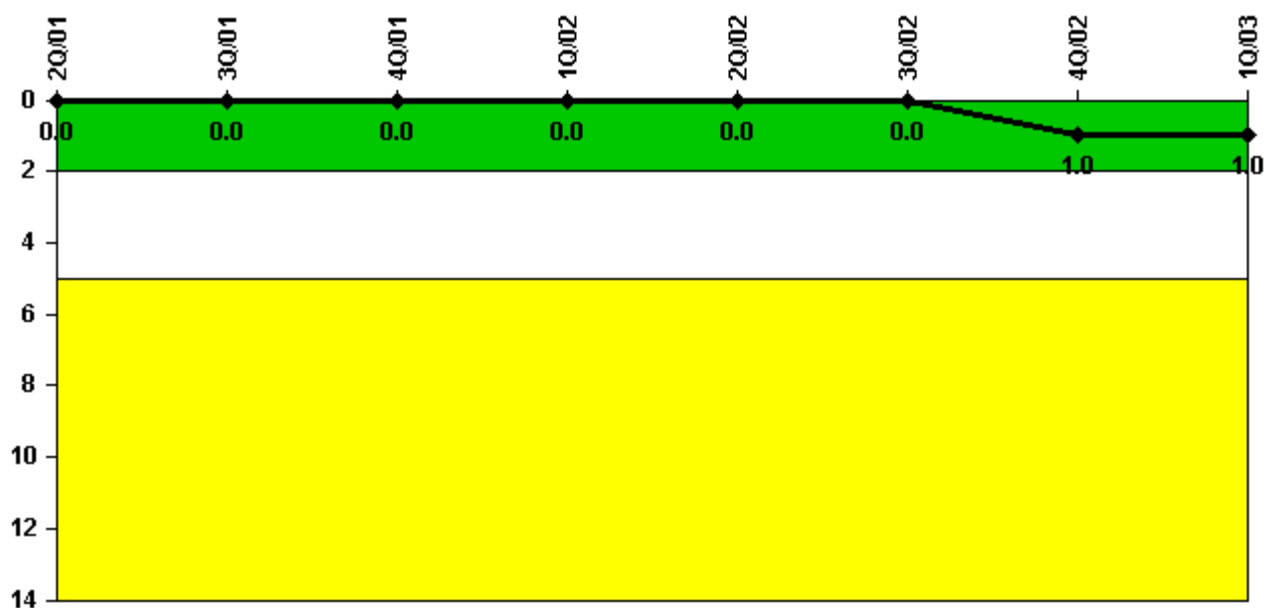
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful siren-tests	1062	997	1197	1003	1111	991	1267	984
Total sirens-tests	1078	1029	1222	1011	1124	1029	1277	988
Indicator value	98.7%	98.2%	98.1%	98.1%	98.2%	98.1%	98.4%	98.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness

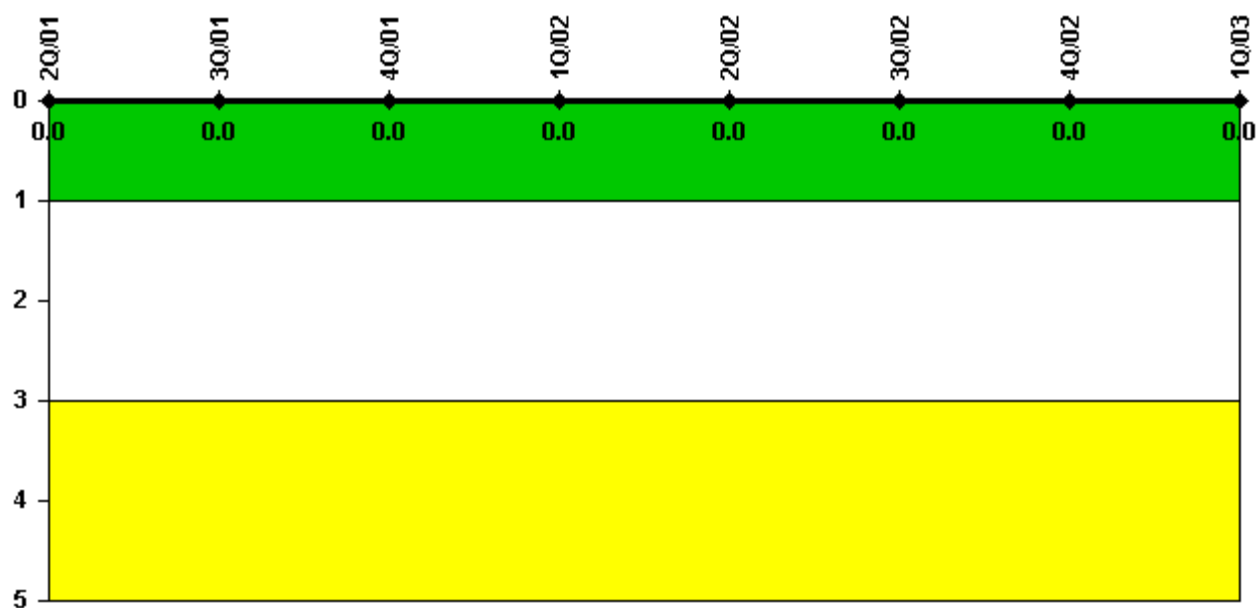


Thresholds: White > 2.0 Yellow > 5.0

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	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

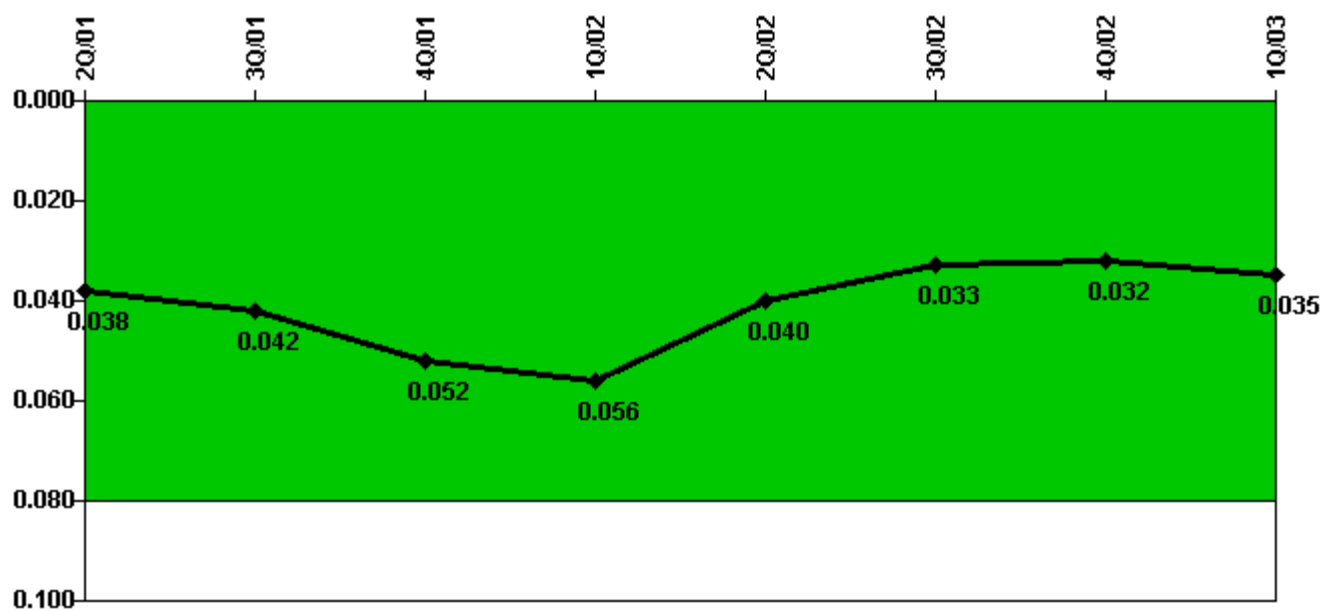
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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



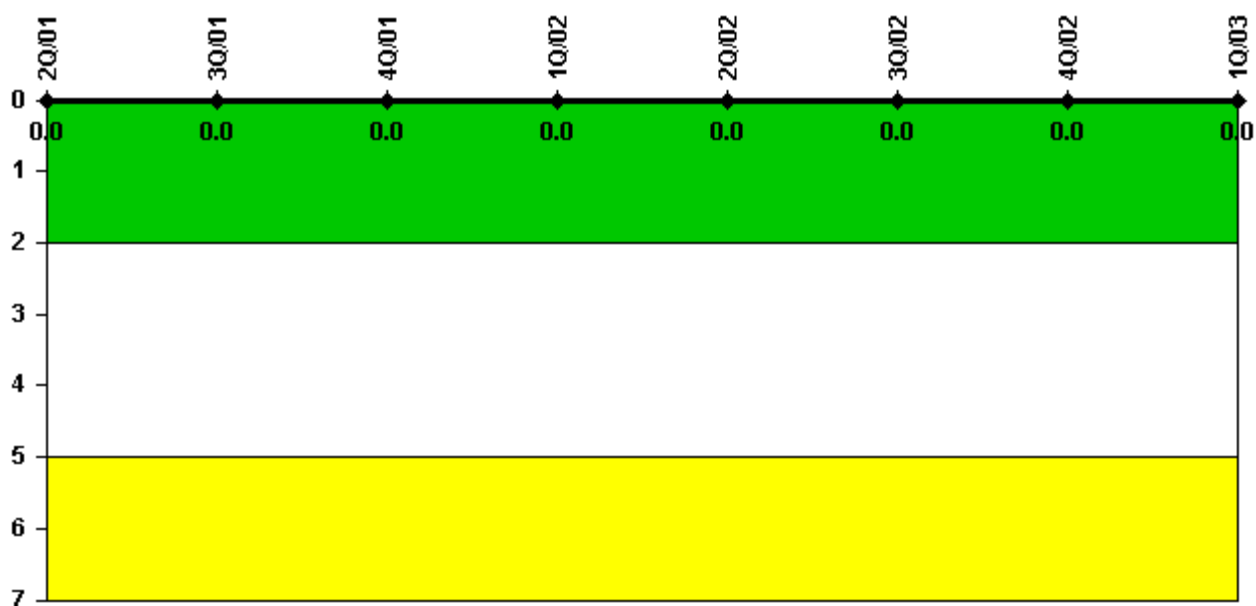
Thresholds: White > 0.080

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	238.12	114.83	47.93	34.74	206.95	15.55	82.72	141.91
CCTV compensatory hours	285.2	25.8	219.3	72.6	0	2.4	159.2	16.5
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	0.038	0.042	0.052	0.056	0.040	0.033	0.032	0.035

Licensee Comments: none

Personnel Screening Program



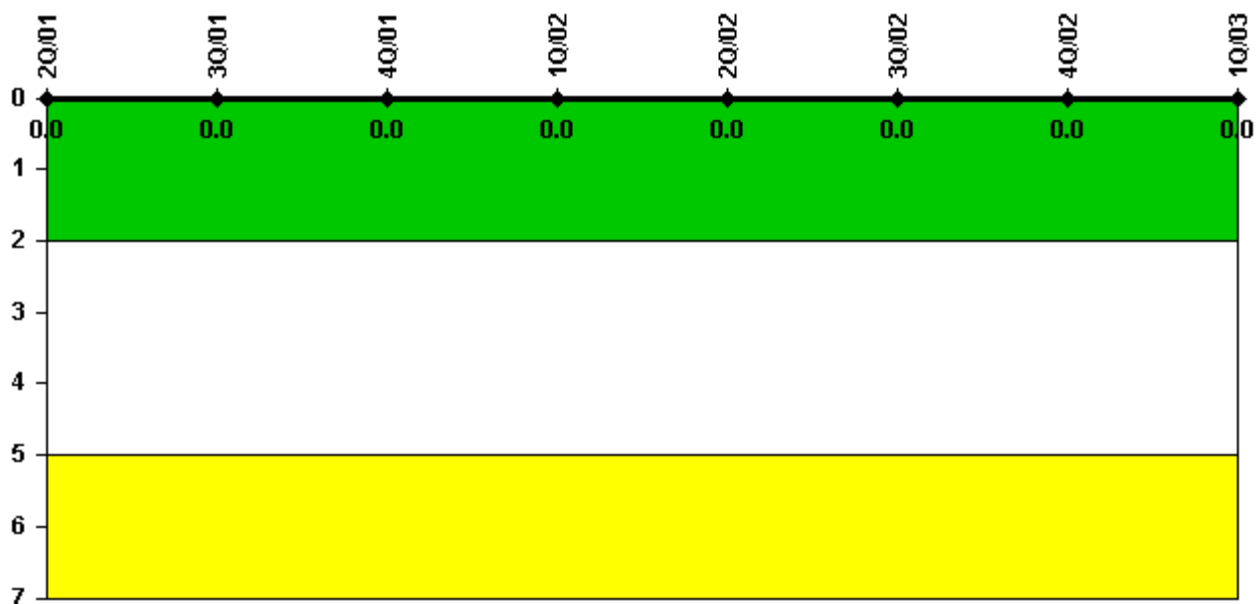
Thresholds: White > 2.0 Yellow > 5.0

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](#)

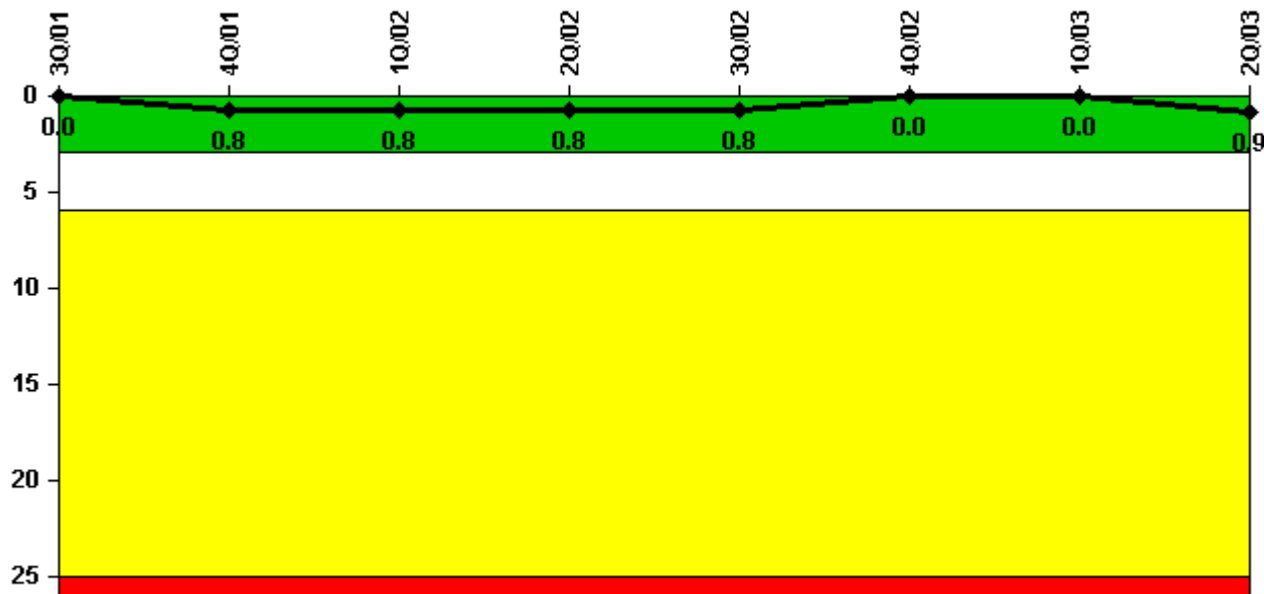
Last Modified: April 22, 2003

Indian Point 2

2Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



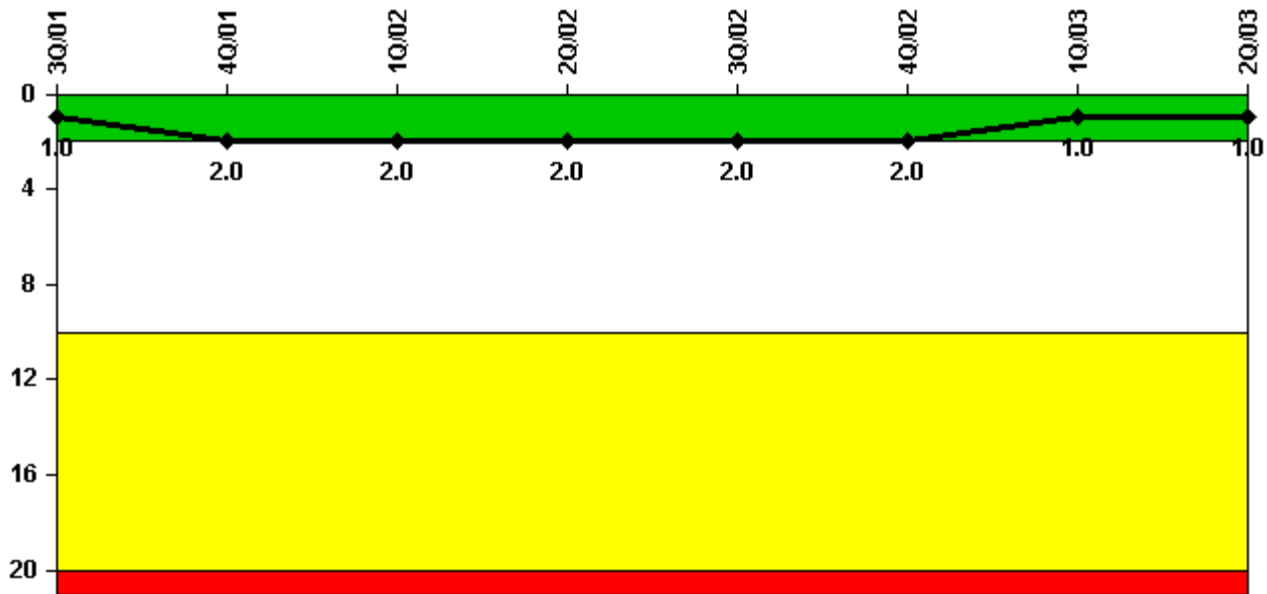
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned scrams	0	1.0	0	0	0	0	0	1.0
Critical hours	2208.0	1963.0	2160.0	2183.0	2208.0	1449.9	2160.0	2149.7
Indicator value	0	0.8	0.8	0.8	0.8	0	0	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



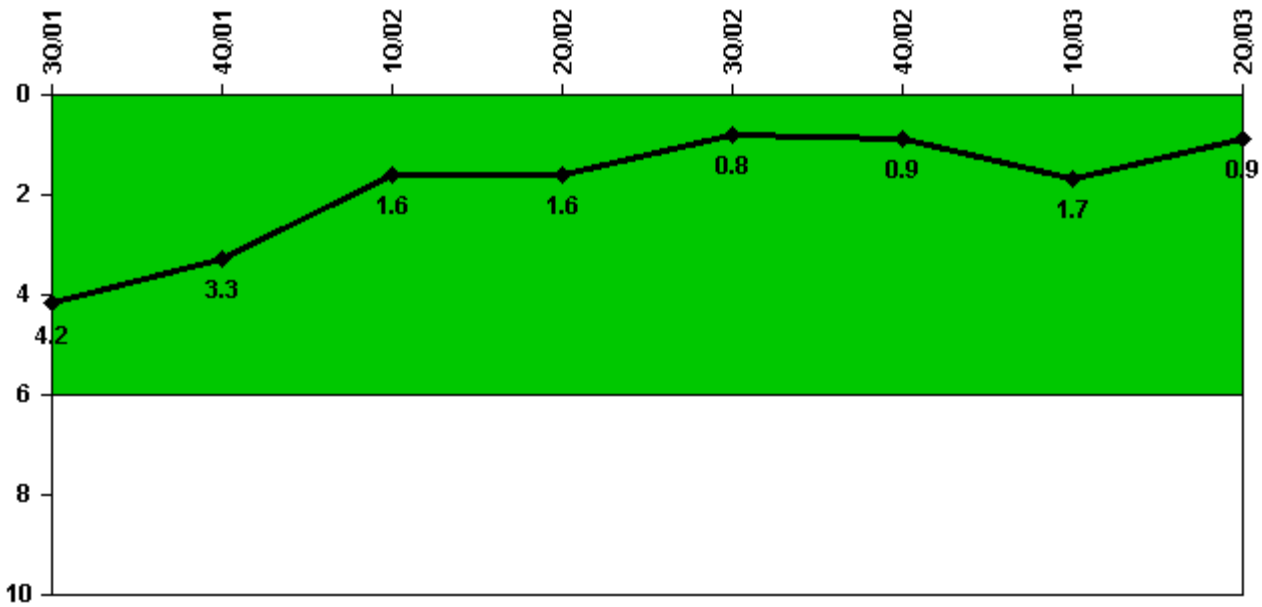
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



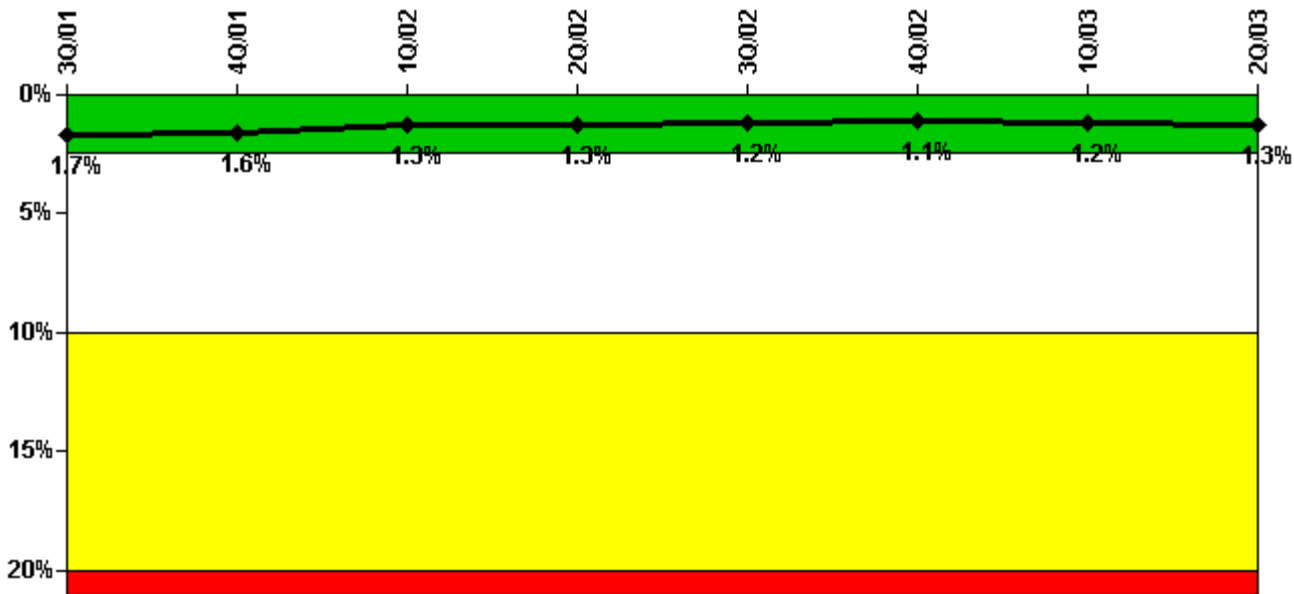
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned power changes	1.0	0	0	1.0	0	0	1.0	0
Critical hours	2208.0	1963.0	2160.0	2183.0	2208.0	1449.9	2160.0	2149.7
Indicator value	4.2	3.3	1.6	1.6	0.8	0.9	1.7	0.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



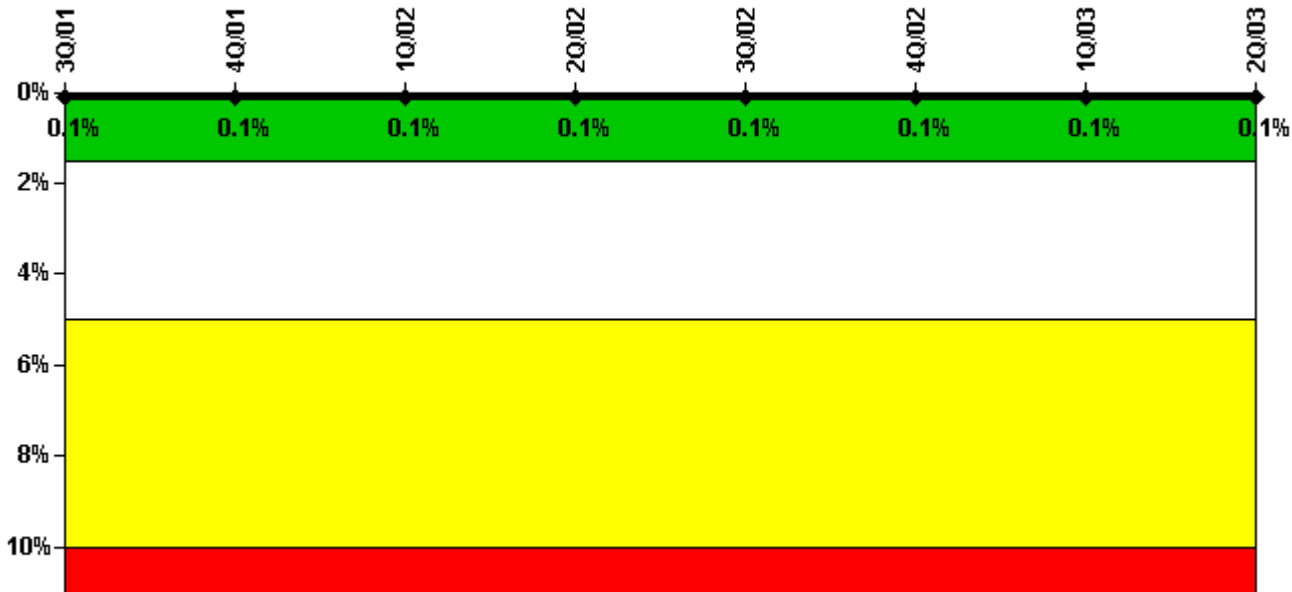
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	8.80	0	0	21.17	4.88	0	68.27	11.35
Unplanned unavailable hours	0	0	0.08	0	0	23.97	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2208.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	51.58	0	34.80	0	0	0	2.00	21.25
Unplanned unavailable hours	0	10.20	18.67	0	29.45	4.57	0	9.42
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2208.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 3								
Planned unavailable hours	86.63	0	39.72	0	0	0.60	0.22	46.45
Unplanned unavailable hours	0	4.85	23.08	0	0	28.85	46.16	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2208.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	1.7%	1.6%	1.3%	1.3%	1.2%	1.1%	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%

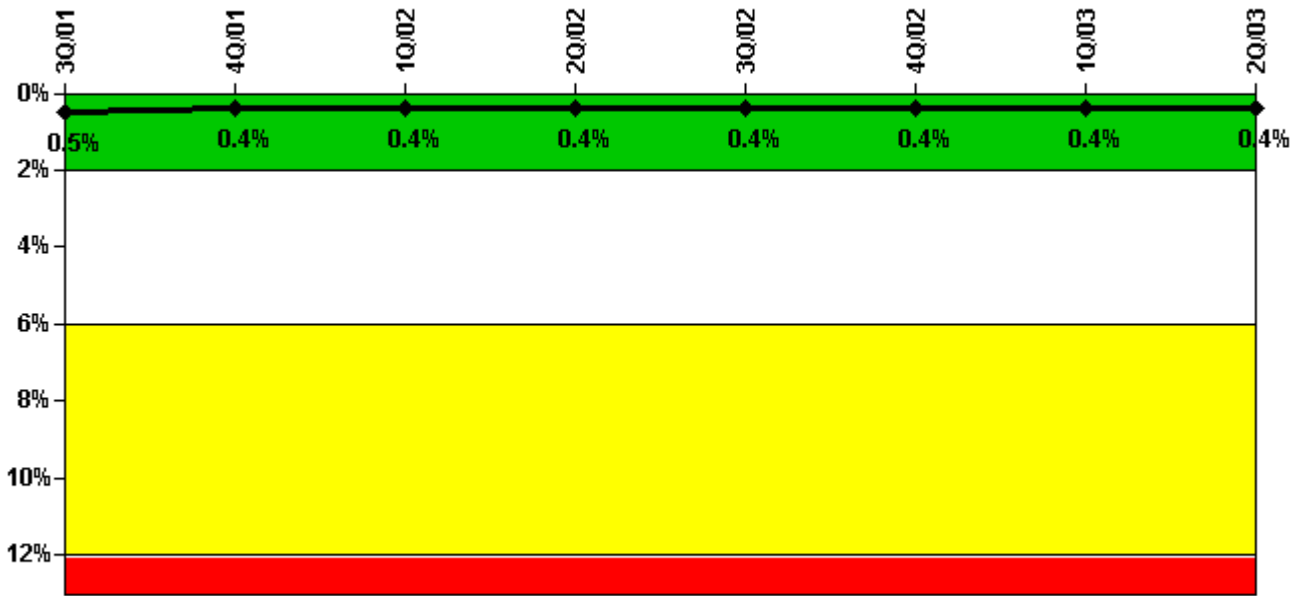
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	1.00	0.23	0.68	0	0	0	6.00	0
Unplanned unavailable hours	0	0	0	0	0.25	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00	2183.00
Train 2								
Planned unavailable hours	6.56	0	0.28	0	1.43	0	0.50	4.76
Unplanned unavailable hours	0	0.17	0	13.30	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00	2183.00
Train 3								
Planned unavailable hours	3.83	0.32	0.41	0	0	0	7.20	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00	2183.00

Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

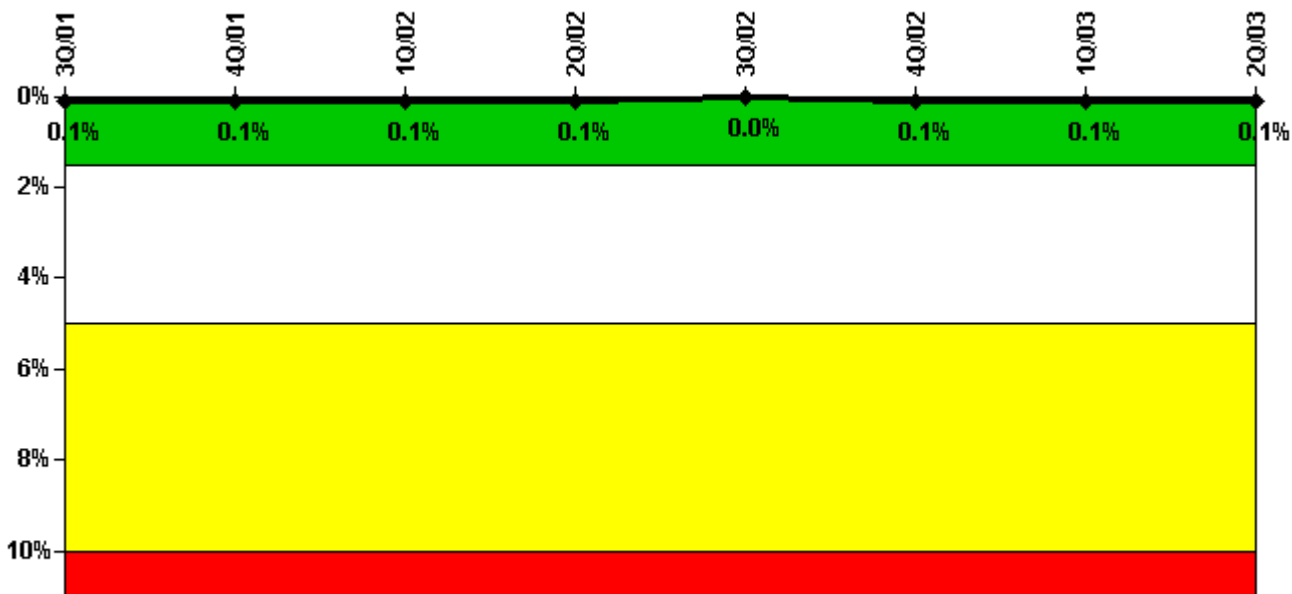
Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	8.50	0	0.71	0	3.56	6.75	18.75	16.38
Unplanned unavailable hours	0	12.37	33.75	7.82	0	0	0	0
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	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00	2149.70
Train 2								
Planned unavailable hours	6.17	0.96	2.38	10.00	14.32	0.50	19.63	13.25
Unplanned unavailable hours	0	1.65	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	2208.00	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00	2149.70
Train 3								
Planned unavailable hours	1.30	12.70	0.33	0.51	8.08	0.38	4.50	9.43
Unplanned unavailable hours	0	0	0	0	0	0	0	0

Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00	2149.70
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%

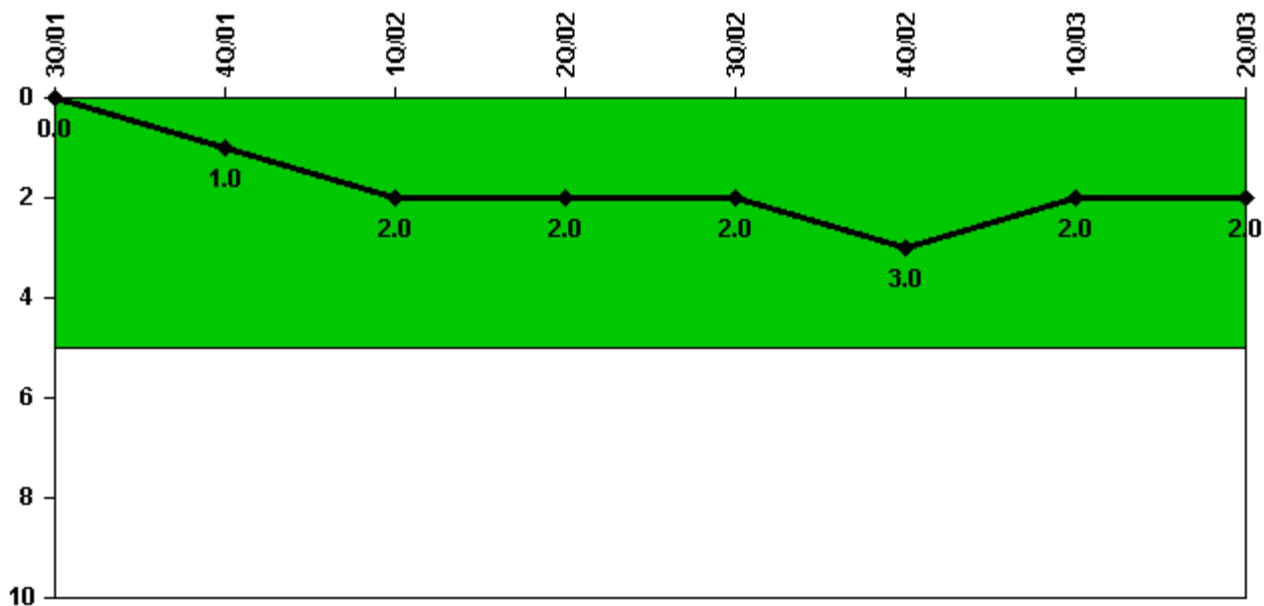
Notes

Safety System Unavailability, Residual Heat Removal System	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	0.25	0	0.45	0	0.32	0	5.50	0
Unplanned unavailable hours	0	0.17	0	0	0	19.30	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	2208.00	2209.00	2160.00	2183.00	2208.00	2042.60	2160.00	2183.00
Train 2								
Planned unavailable hours	0.08	0	0.86	0	0.57	0	5.80	0.56
Unplanned unavailable hours	0	0	0	0	0	0	24.00	0
Fault exposure hours	0	0	0	0	0	0	3.00	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2042.60	2160.00	2183.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0.25	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	2208.00	2209.00	2160.00	2183.00	2208.00	1449.87	2160.00	2183.00
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	24.00	0
Fault exposure hours	0	0	0	0	0	0	3.00	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	1449.87	2160.00	2183.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

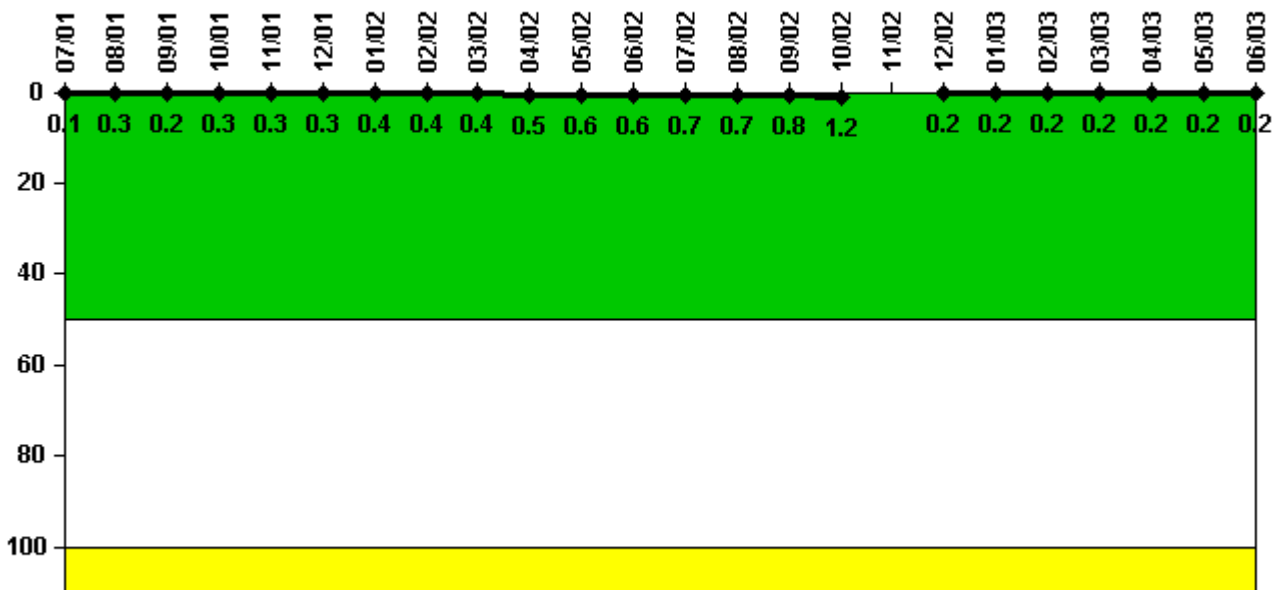
Notes

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

Indicator value	0	1	2	2	2	3	2	2

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

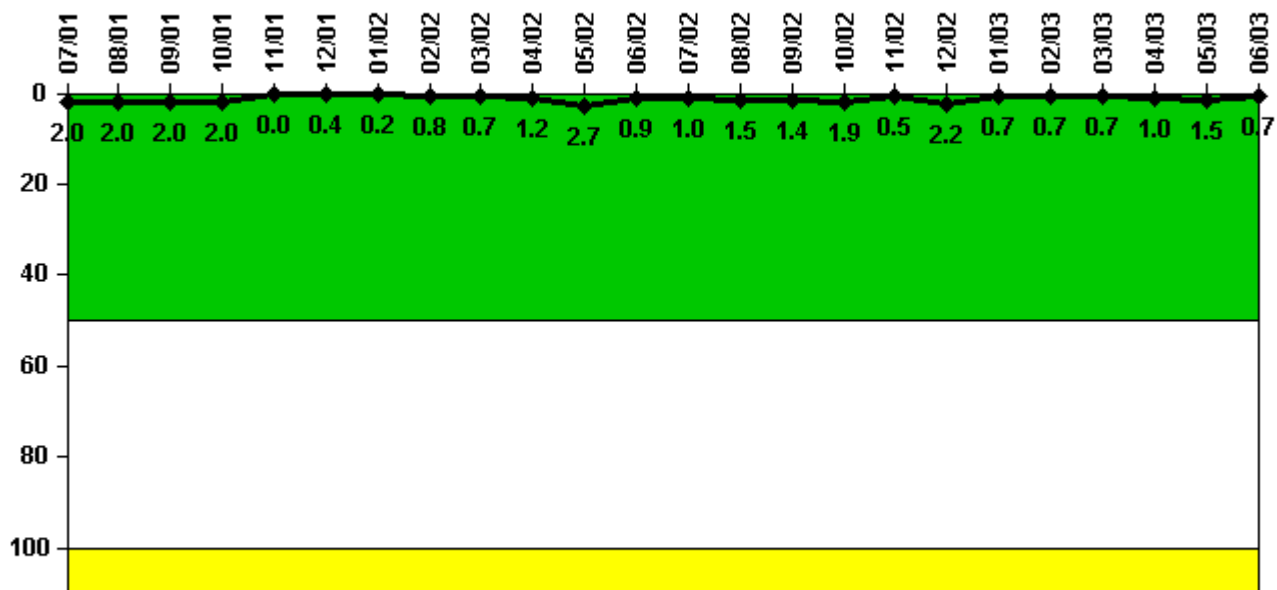
Notes

Reactor Coolant System Activity	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum activity	0.001100	0.002700	0.001600	0.002500	0.002900	0.003400	0.003800	0.004300	0.004300	0.004900	0.005800	0.006400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.6

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	0.006600	0.007200	0.007700	0.012000	N/A	0.001600	0.001800	0.001900	0.002100	0.002100	0.002200	0.002300
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.7	0.7	0.8	1.2	N/A	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

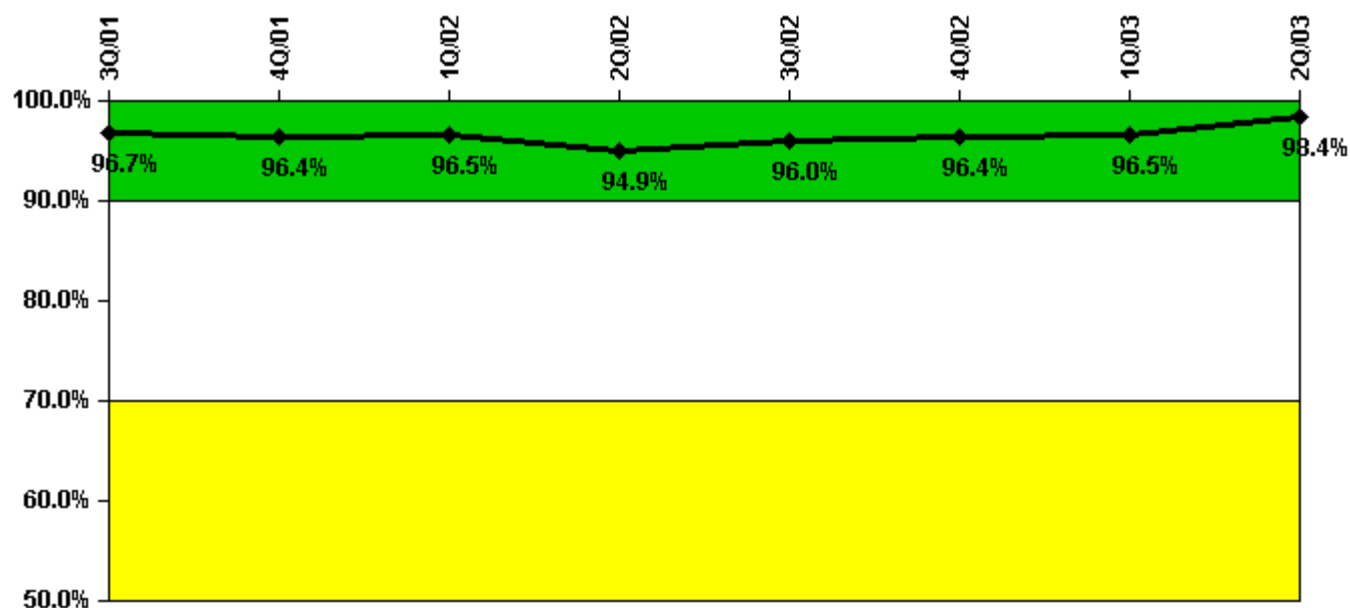
Notes

Reactor Coolant System Leakage	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum leakage	0.200	0.200	0.200	0.200	0	0.039	0.019	0.077	0.068	0.118	0.269	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.0	2.0	2.0	2.0	0	0.4	0.2	0.8	0.7	1.2	2.7	0.9

Reactor Coolant System Leakage	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum leakage	0.099	0.154	0.143	0.190	0.052	0.224	0.067	0.070	0.070	0.102	0.148	0.075
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.5	1.4	1.9	0.5	2.2	0.7	0.7	0.7	1.0	1.5	0.7

Licensee Comments: none

Drill/Exercise Performance



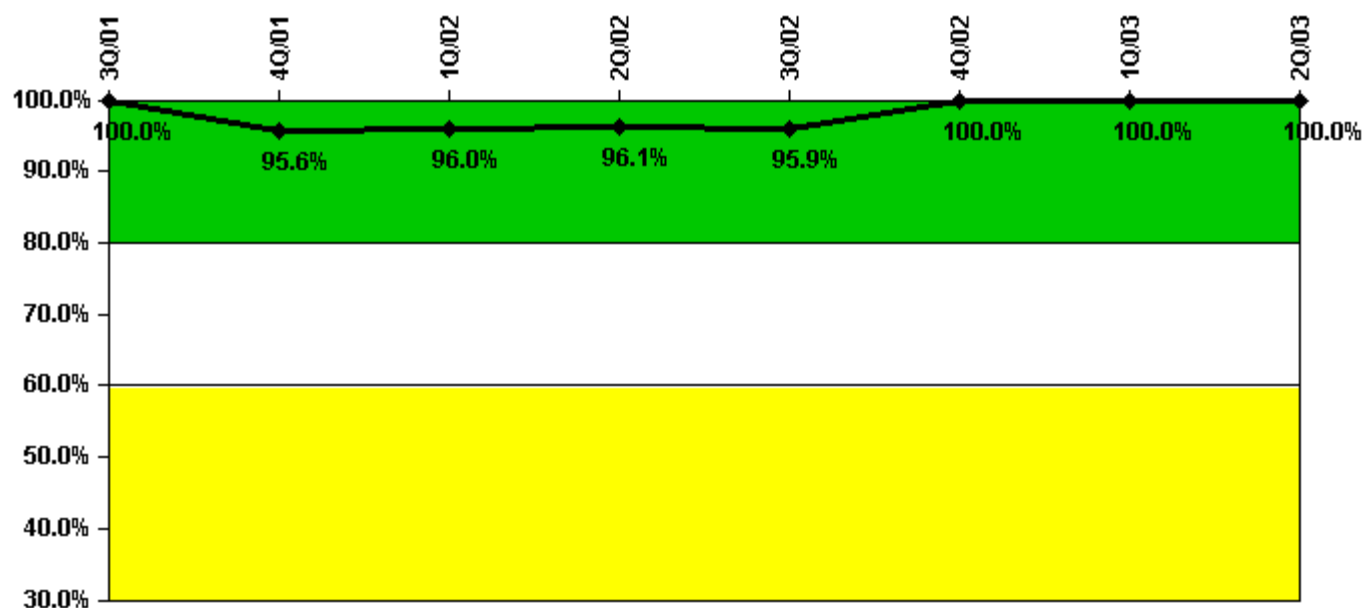
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Successful opportunities	26.0	10.0	6.0	22.0	50.0	2.0	7.0	3.0
Total opportunities	26.0	10.0	6.0	24.0	50.0	2.0	7.0	3.0
Indicator value	96.7%	96.4%	96.5%	94.9%	96.0%	96.4%	96.5%	98.4%

Licensee Comments: none

ERO Drill Participation



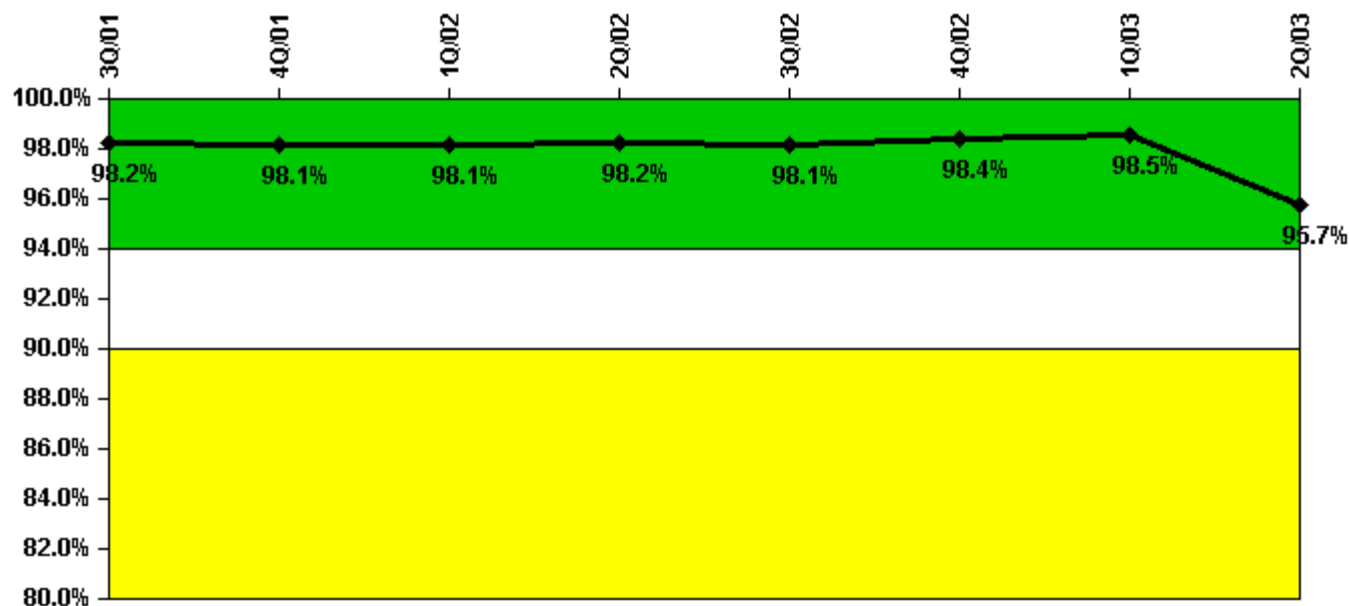
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Participating Key personnel	45.0	43.0	48.0	49.0	47.0	50.0	53.0	52.0
Total Key personnel	45.0	45.0	50.0	51.0	49.0	50.0	53.0	52.0
Indicator value	100.0%	95.6%	96.0%	96.1%	95.9%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



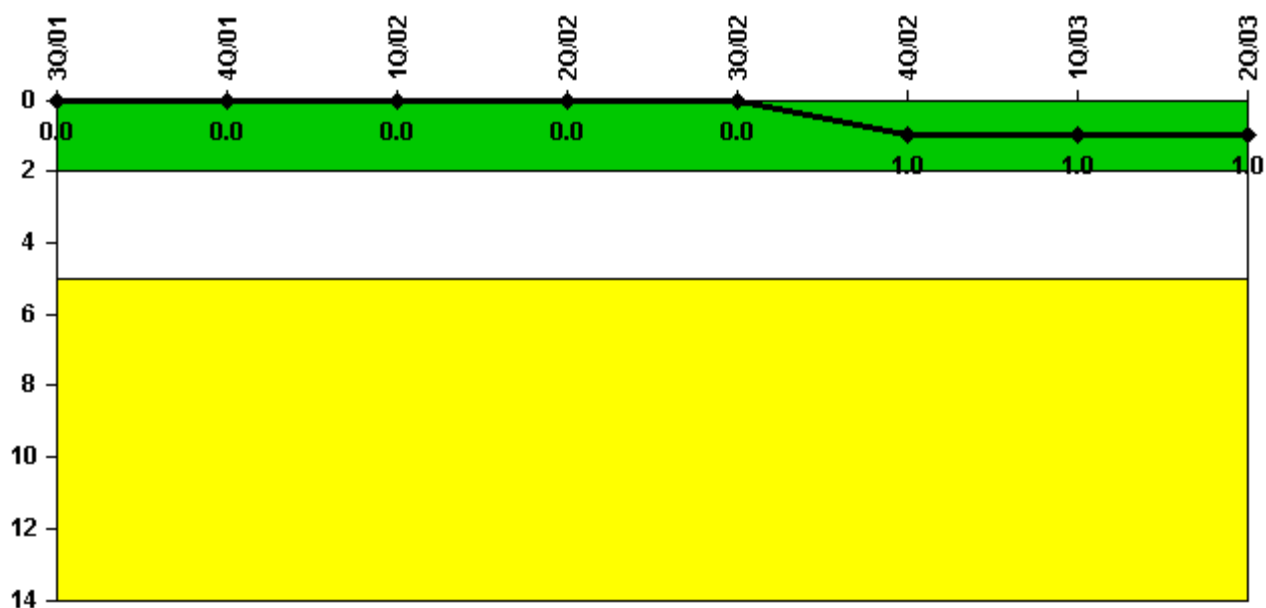
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Successful siren-tests	997	1197	1003	1111	991	1267	984	1236
Total sirens-tests	1029	1222	1011	1124	1029	1277	988	1386
Indicator value	98.2%	98.1%	98.1%	98.2%	98.1%	98.4%	98.5%	95.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness

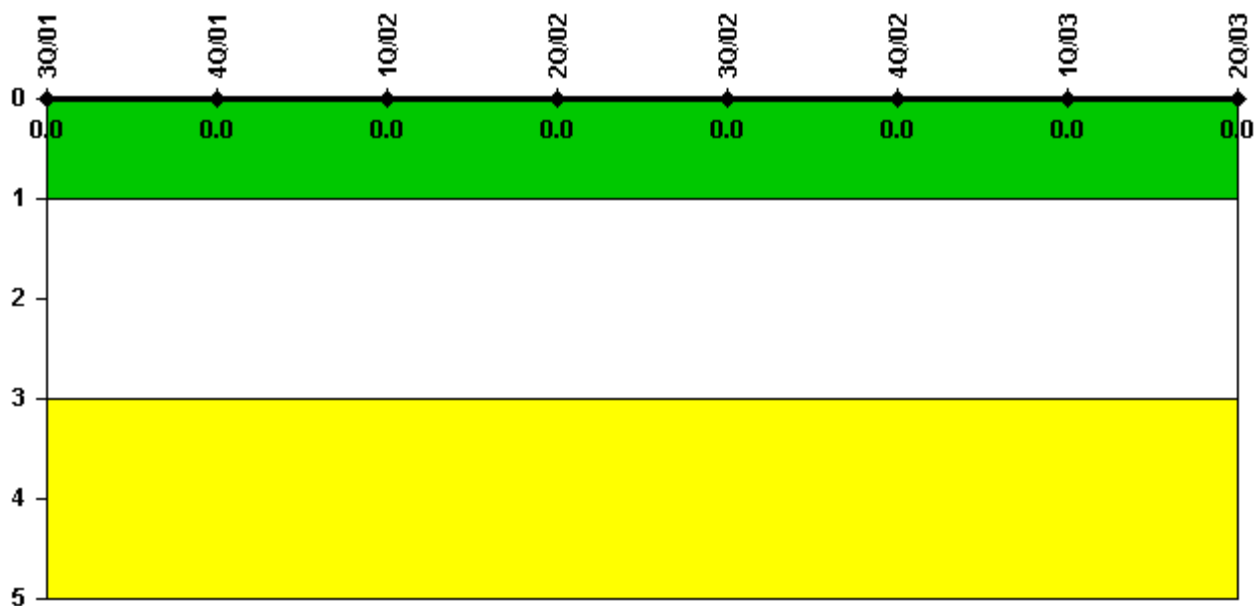


Thresholds: White > 2.0 Yellow > 5.0

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	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

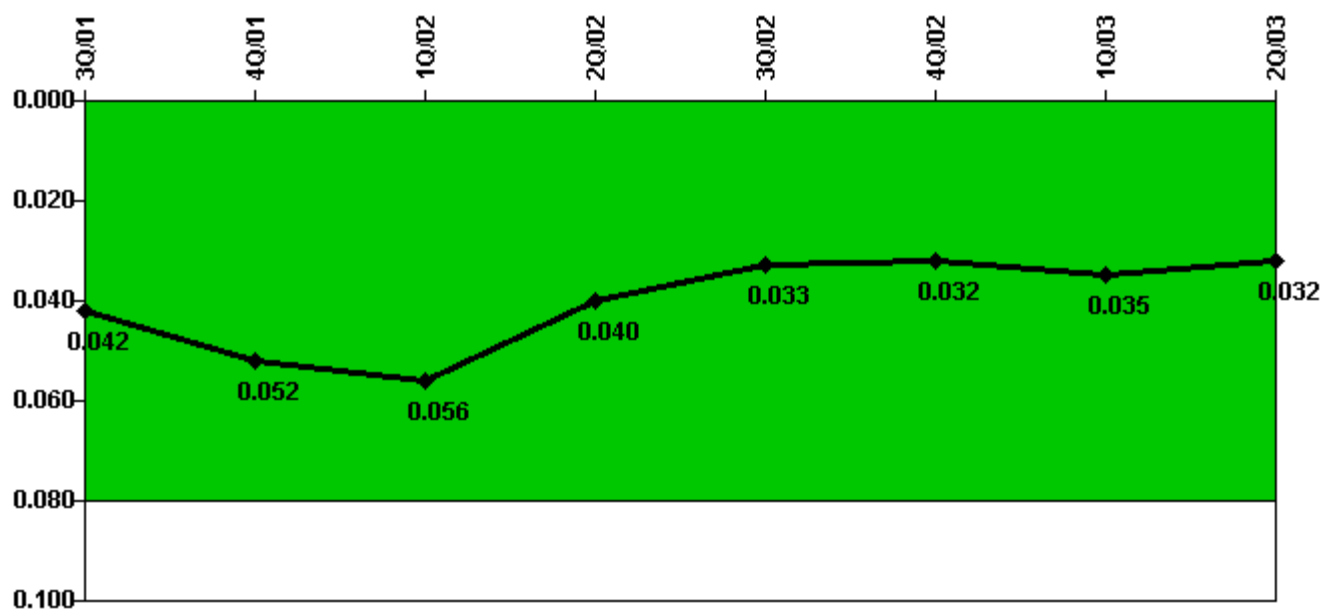
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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



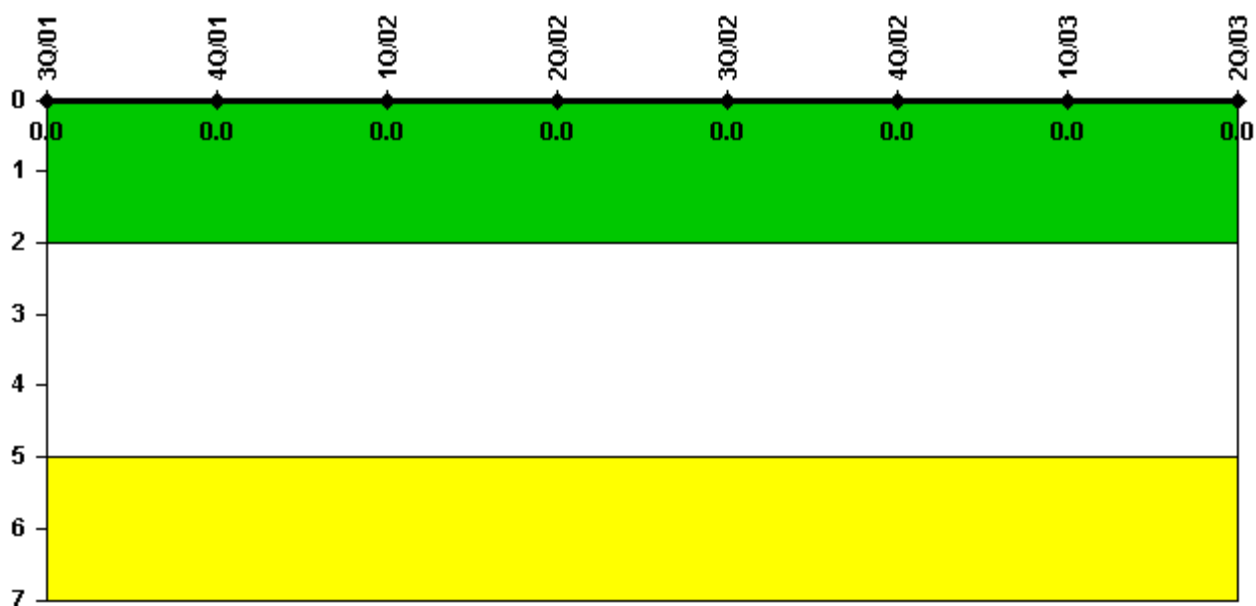
Thresholds: White > 0.080

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	114.83	47.93	34.74	206.95	15.55	82.72	141.91	157.00
CCTV compensatory hours	25.8	219.3	72.6	0	2.4	159.2	16.5	5.8
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	0.042	0.052	0.056	0.040	0.033	0.032	0.035	0.032

Licensee Comments: none

Personnel Screening Program



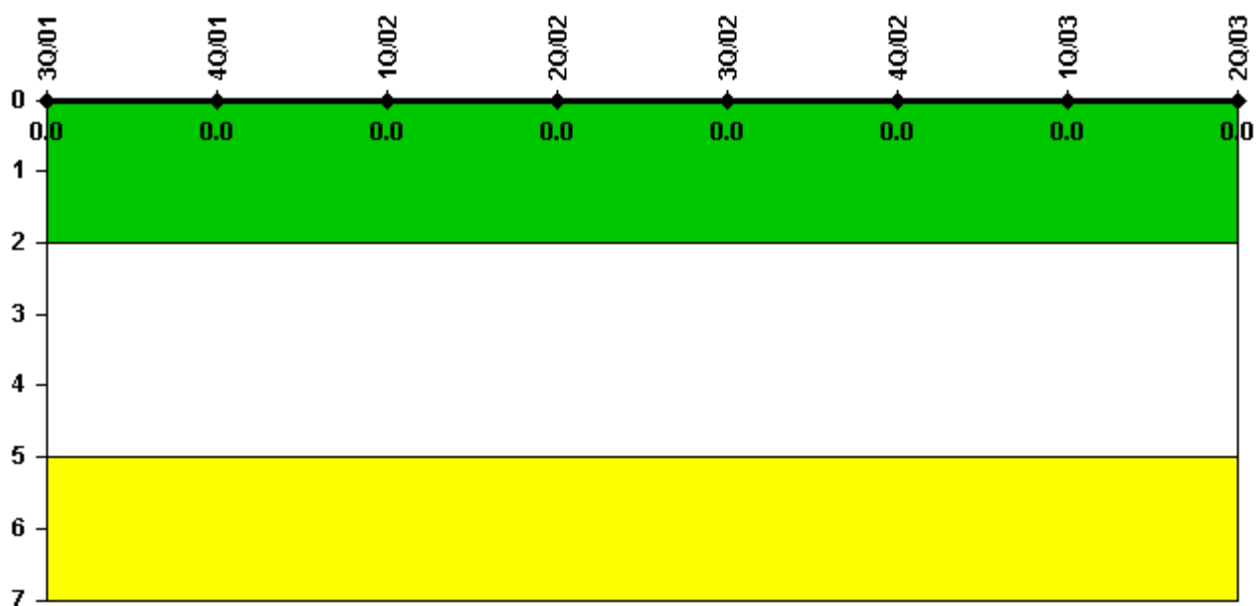
Thresholds: White > 2.0 Yellow > 5.0

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](#)

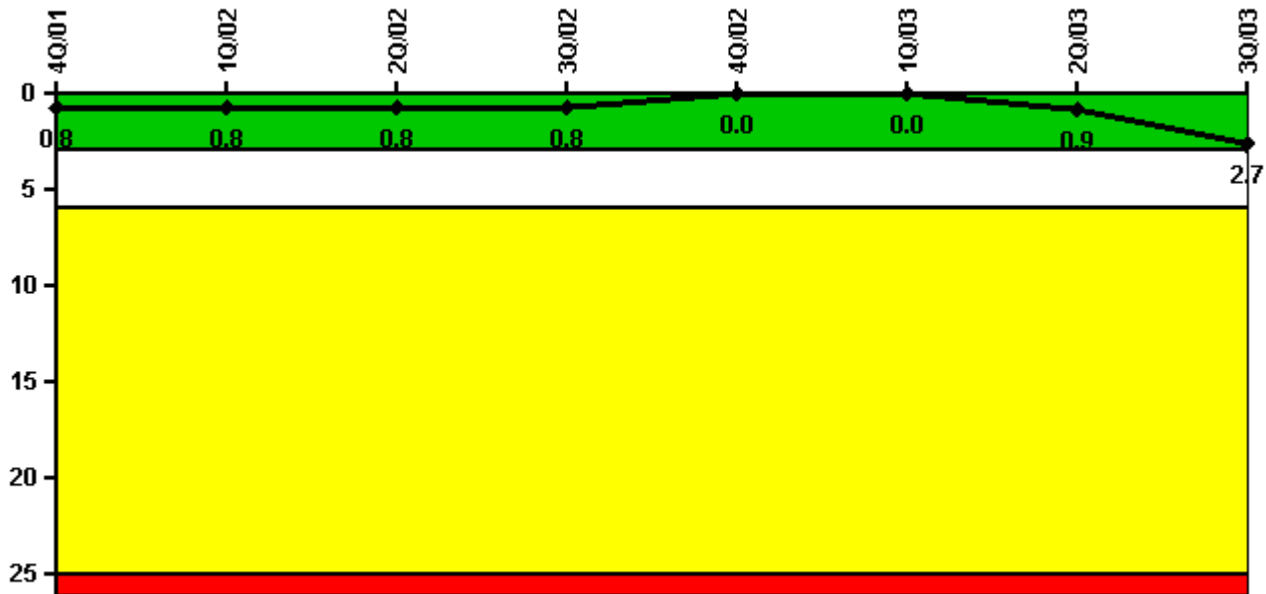
Last Modified: July 22, 2003

Indian Point 2

3Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



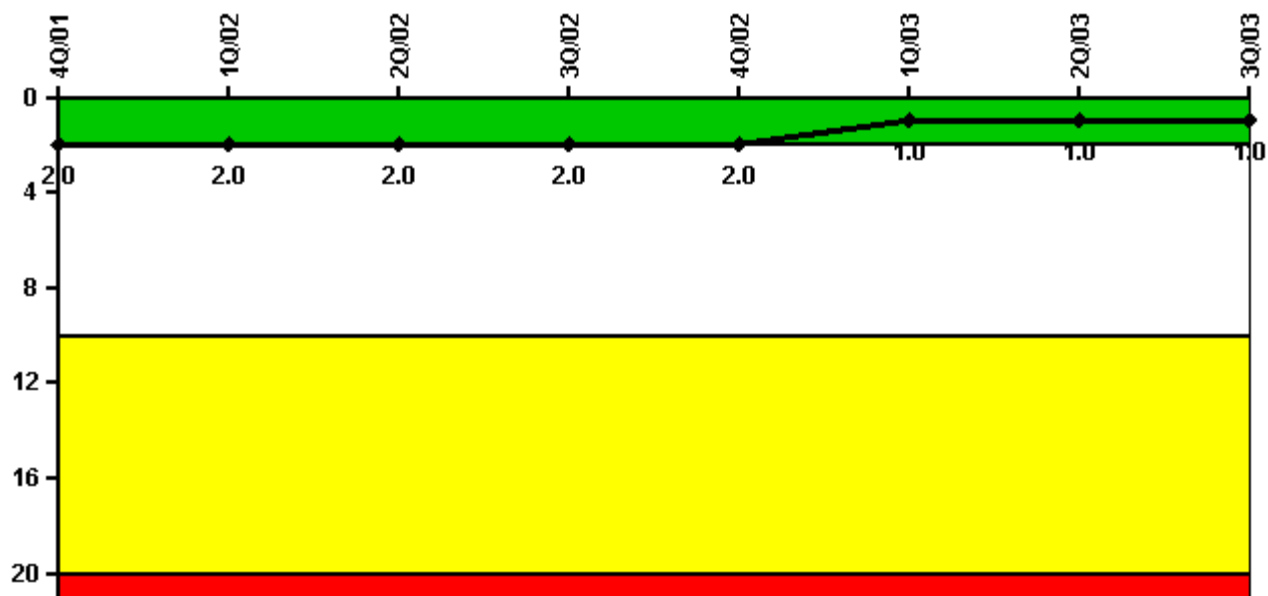
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned scrams	1.0	0	0	0	0	0	1.0	2.0
Critical hours	1963.0	2160.0	2183.0	2208.0	1449.9	2160.0	2149.7	2146.2
Indicator value	0.8	0.8	0.8	0.8	0	0	0.9	2.7

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



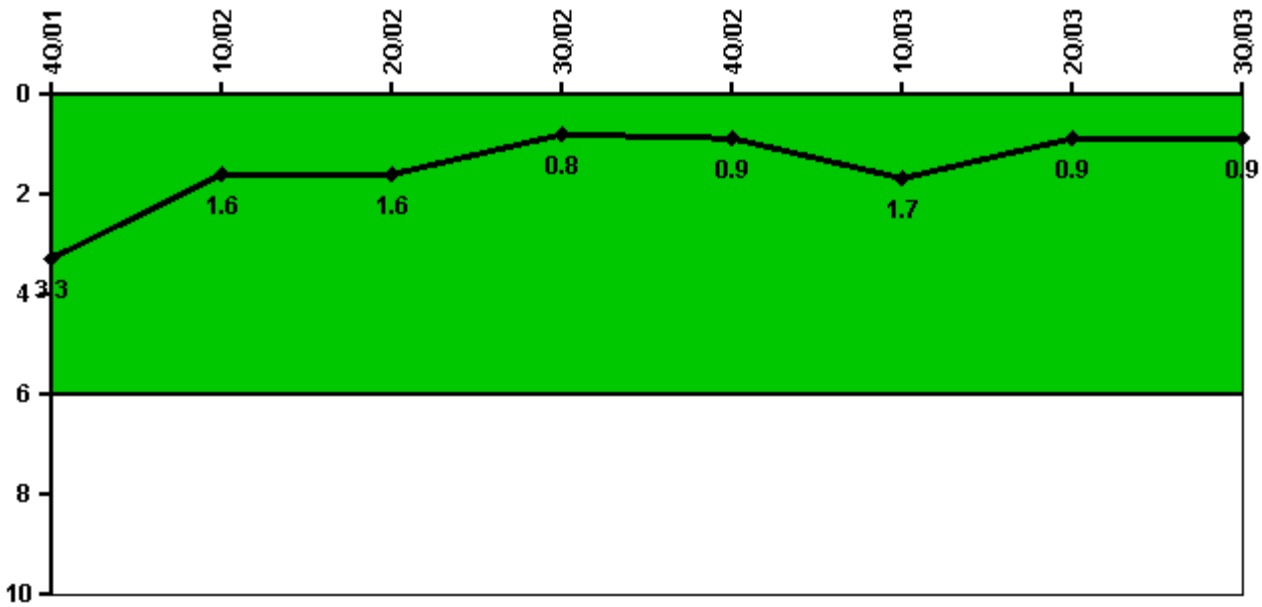
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



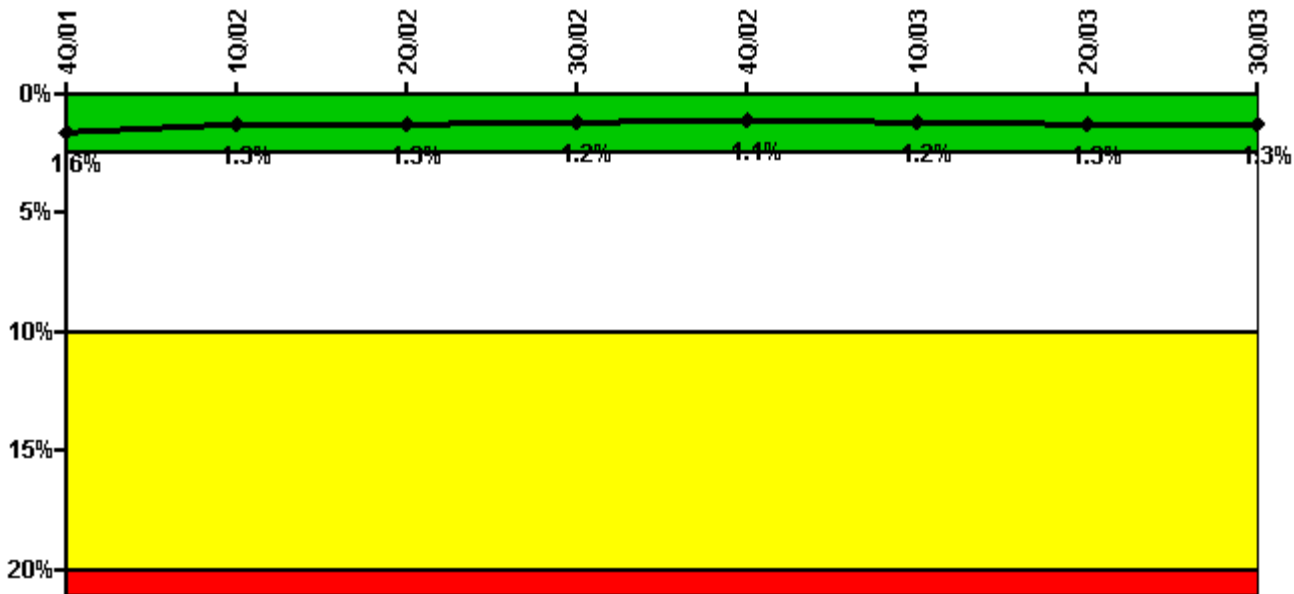
Thresholds: White > 6.0

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	0	0	1.0	0	0
Critical hours	1963.0	2160.0	2183.0	2208.0	1449.9	2160.0	2149.7	2146.2
Indicator value	3.3	1.6	1.6	0.8	0.9	1.7	0.9	0.9

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0	0	21.17	4.88	0	68.27	11.35	0
Unplanned unavailable hours	0	0.08	0	0	23.97	0	0	6.57
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	34.80	0	0	0	2.00	21.25	0
Unplanned unavailable hours	10.20	18.67	0	29.45	4.57	0	9.42	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	39.72	0	0	0.60	0.22	46.45	0
Unplanned unavailable hours	4.85	23.08	0	0	28.85	46.16	0	0
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	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	1.6%	1.3%	1.3%	1.2%	1.1%	1.2%	1.3%	1.3%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



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

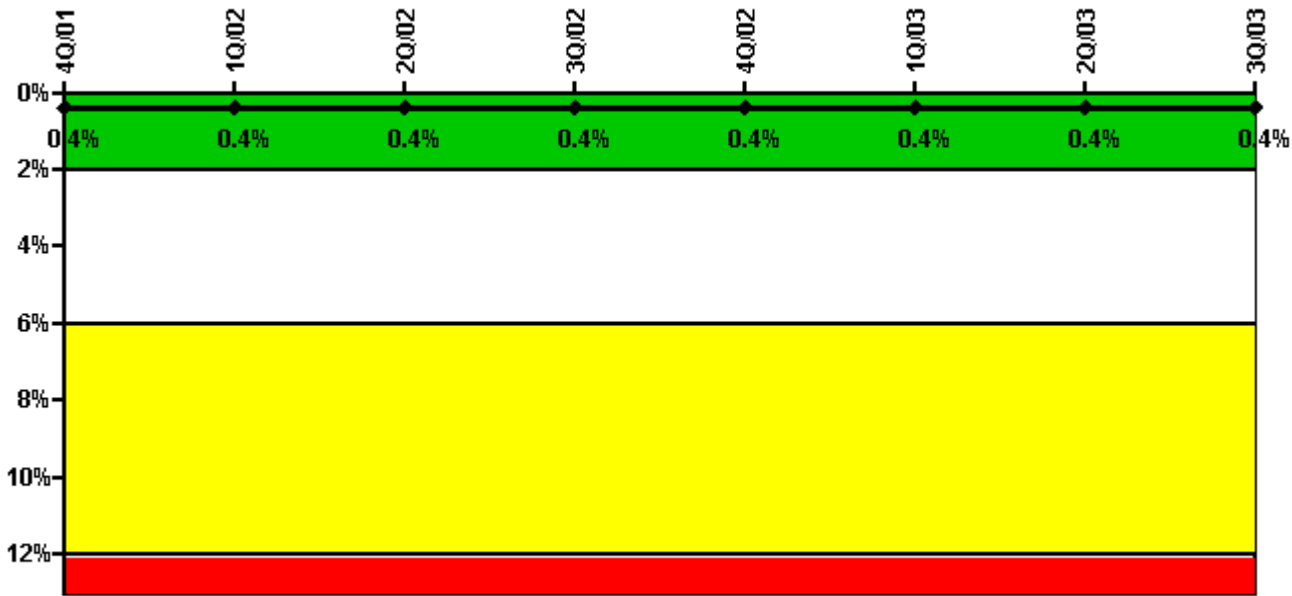
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0.23	0.68	0	0	0	6.00	0	12.00
Unplanned unavailable hours	0	0	0	0.25	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00	2183.00	2146.00
Train 2								
Planned unavailable hours	0	0.28	0	1.43	0	0.50	4.76	0
Unplanned unavailable hours	0.17	0	13.30	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00	2183.00	2146.00
Train 3								
Planned unavailable hours	0.32	0.41	0	0	0	7.20	0	2.82
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00	2183.00	2146.00

Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

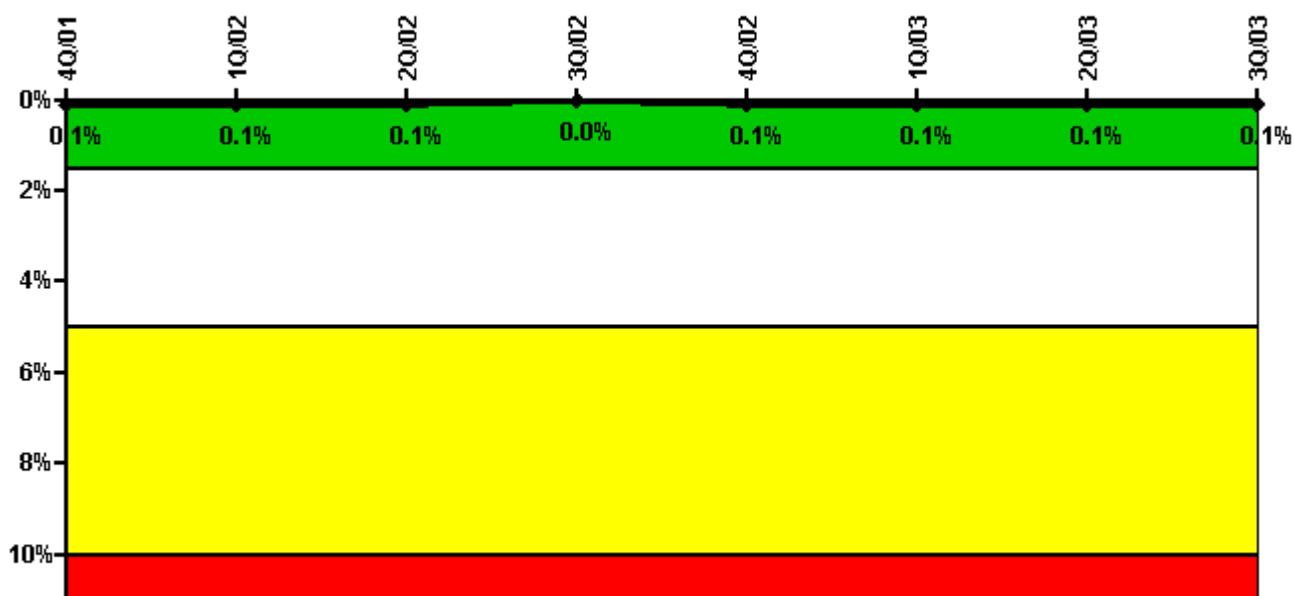
Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0	0.71	0	3.56	6.75	18.75	16.38	1.50
Unplanned unavailable hours	12.37	33.75	7.82	0	0	0	0	0.16
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00	2149.70	2146.00
Train 2								
Planned unavailable hours	0.96	2.38	10.00	14.32	0.50	19.63	13.25	2.50
Unplanned unavailable hours	1.65	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	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00	2149.70	2146.00
Train 3								
Planned unavailable hours	12.70	0.33	0.51	8.08	0.38	4.50	9.43	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	1962.98	2160.00	2183.00	2208.00	1449.87	2160.00	2149.70	2146.00
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%

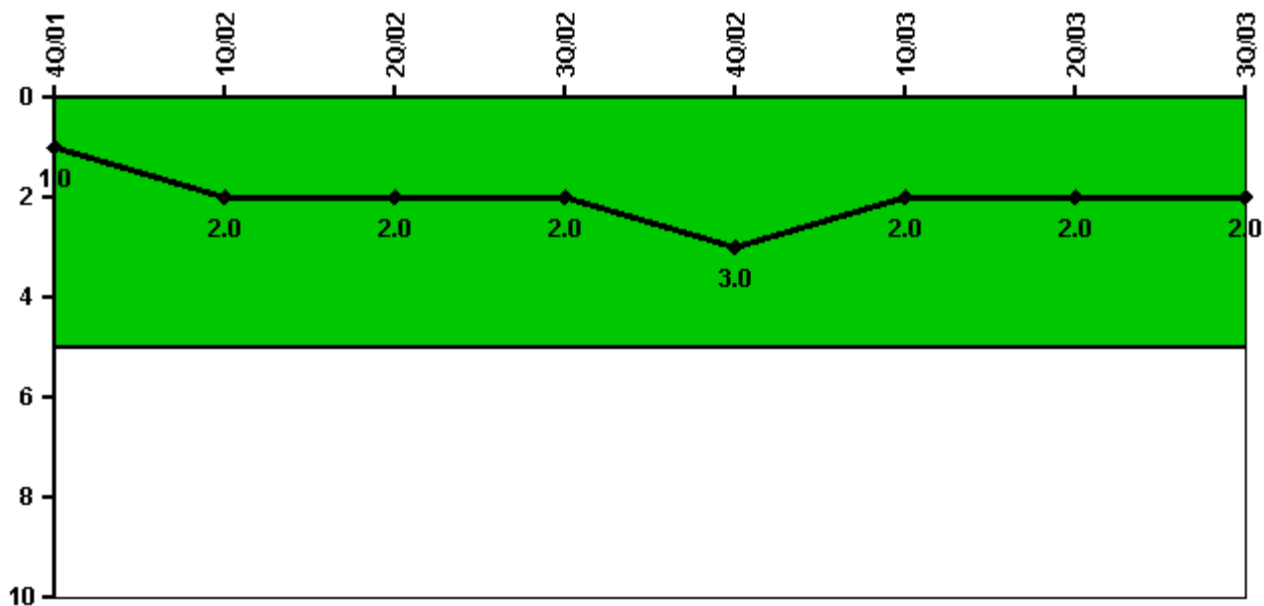
Notes

Safety System Unavailability, Residual Heat Removal System	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	0	0.45	0	0.32	0	5.50	0	0.33
Unplanned unavailable hours	0.17	0	0	0	19.30	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2042.60	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	0.86	0	0.57	0	5.80	0.56	0
Unplanned unavailable hours	0	0	0	0	0	24.00	0	0
Fault exposure hours	0	0	0	0	0	3.00	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	2209.00	2160.00	2183.00	2208.00	2042.60	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	0.25	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	2209.00	2160.00	2183.00	2208.00	1449.87	2160.00	2183.00	2146.00
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	24.00	0	0
Fault exposure hours	0	0	0	0	0	3.00	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	1449.87	2160.00	2183.00	2146.00
Indicator value	0.1%	0.1%	0.1%	0%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

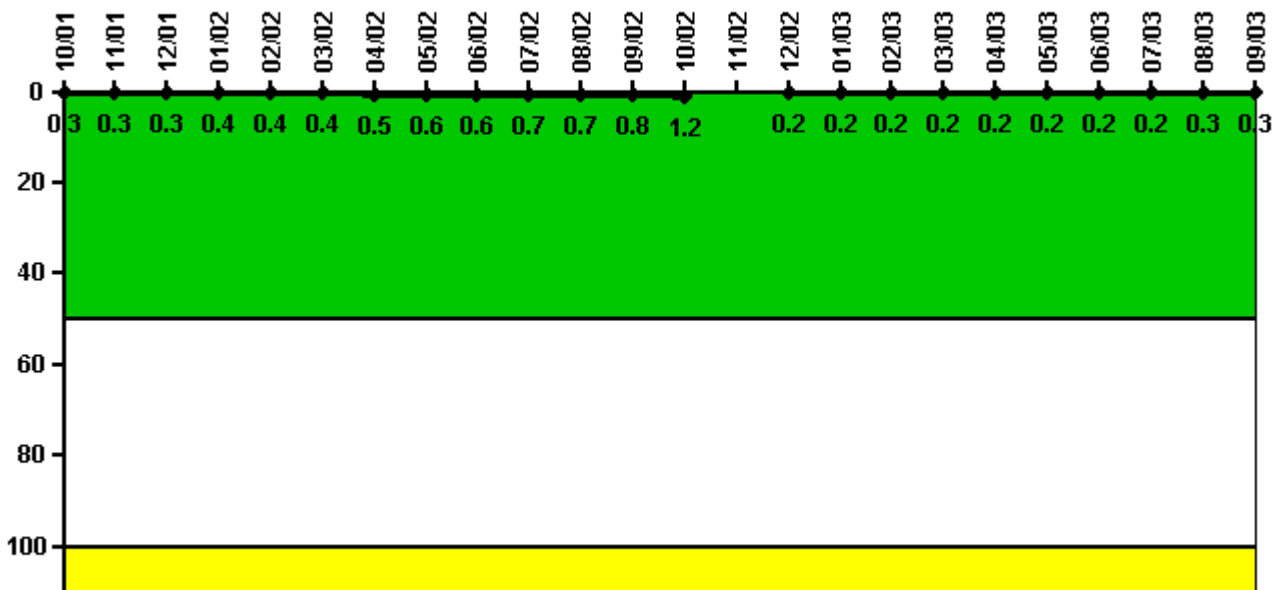
Notes

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

Indicator value	1	2	2	2	3	2	2	2

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

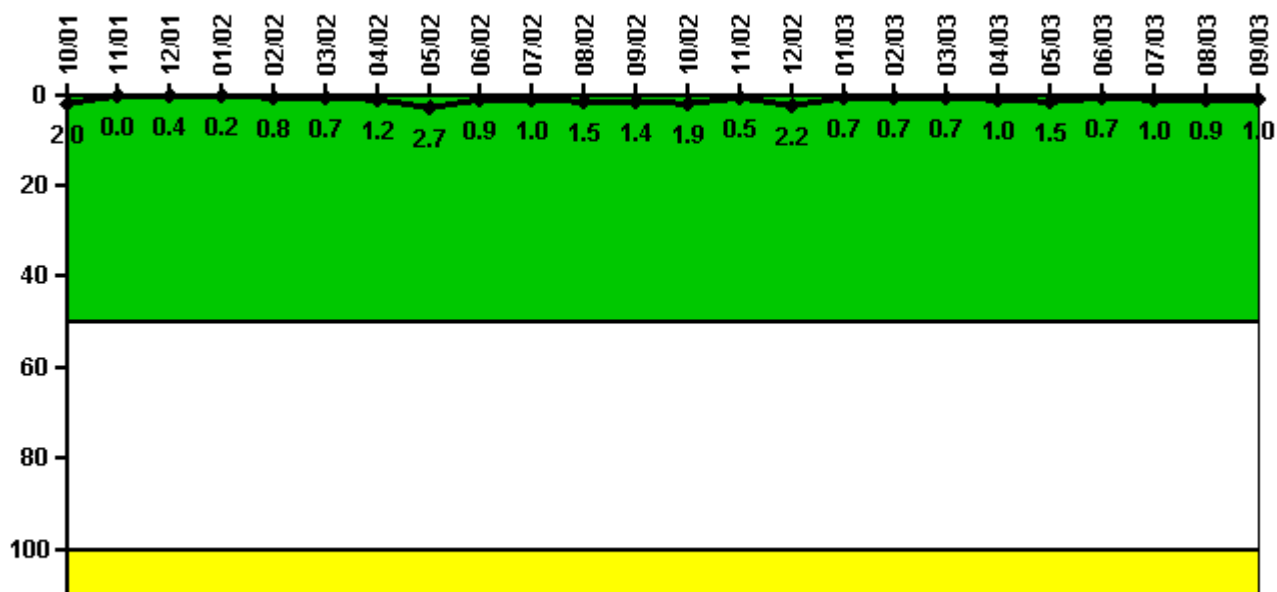
Notes

Reactor Coolant System Activity	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum activity	0.002500	0.002900	0.003400	0.003800	0.004300	0.004300	0.004900	0.005800	0.006400	0.006600	0.007200	0.007700
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8

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	0.012000	N/A	0.001600	0.001800	0.001900	0.002100	0.002100	0.002200	0.002300	0.002200	0.002800	0.003100
Technical specification limit	1.0	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	N/A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

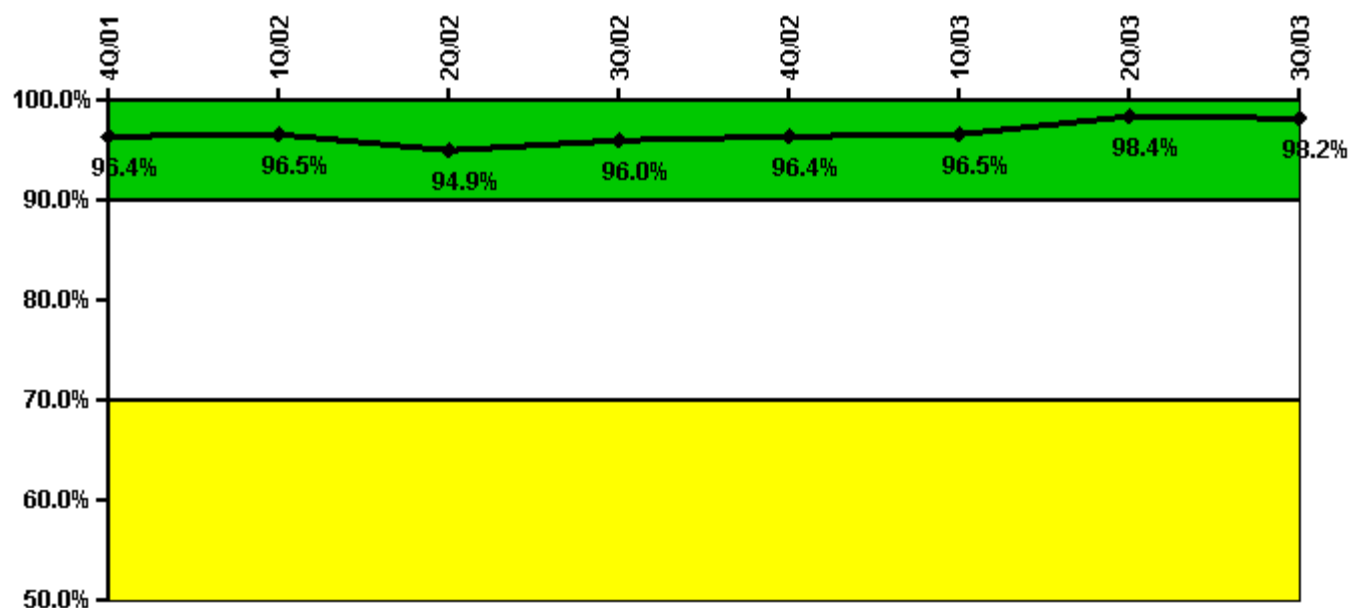
Notes

Reactor Coolant System Leakage	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum leakage	0.200	0	0.039	0.019	0.077	0.068	0.118	0.269	0.090	0.099	0.154	0.143
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.0	0	0.4	0.2	0.8	0.7	1.2	2.7	0.9	1.0	1.5	1.4

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	0.190	0.052	0.224	0.067	0.070	0.070	0.102	0.148	0.075	0.097	0.093	0.096
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.9	0.5	2.2	0.7	0.7	0.7	1.0	1.5	0.7	1.0	0.9	1.0

Licensee Comments: none

Drill/Exercise Performance



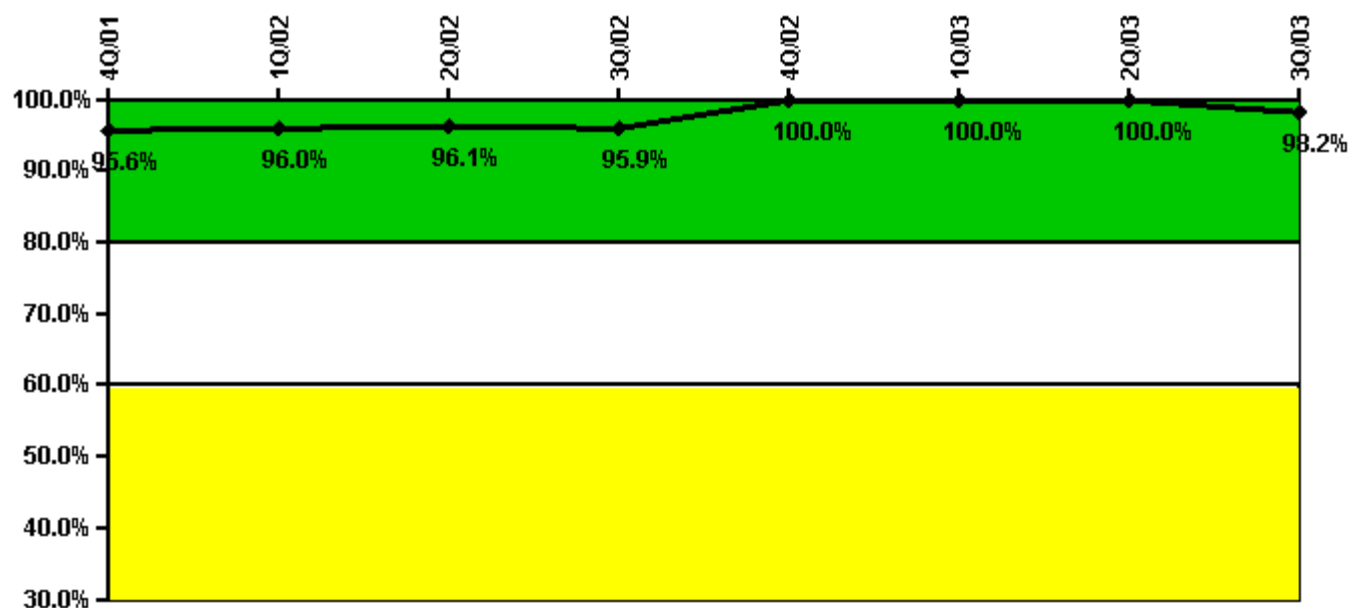
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Successful opportunities	10.0	6.0	22.0	50.0	2.0	7.0	3.0	9.0
Total opportunities	10.0	6.0	24.0	50.0	2.0	7.0	3.0	9.0
Indicator value	96.4%	96.5%	94.9%	96.0%	96.4%	96.5%	98.4%	98.2%

Licensee Comments: none

ERO Drill Participation



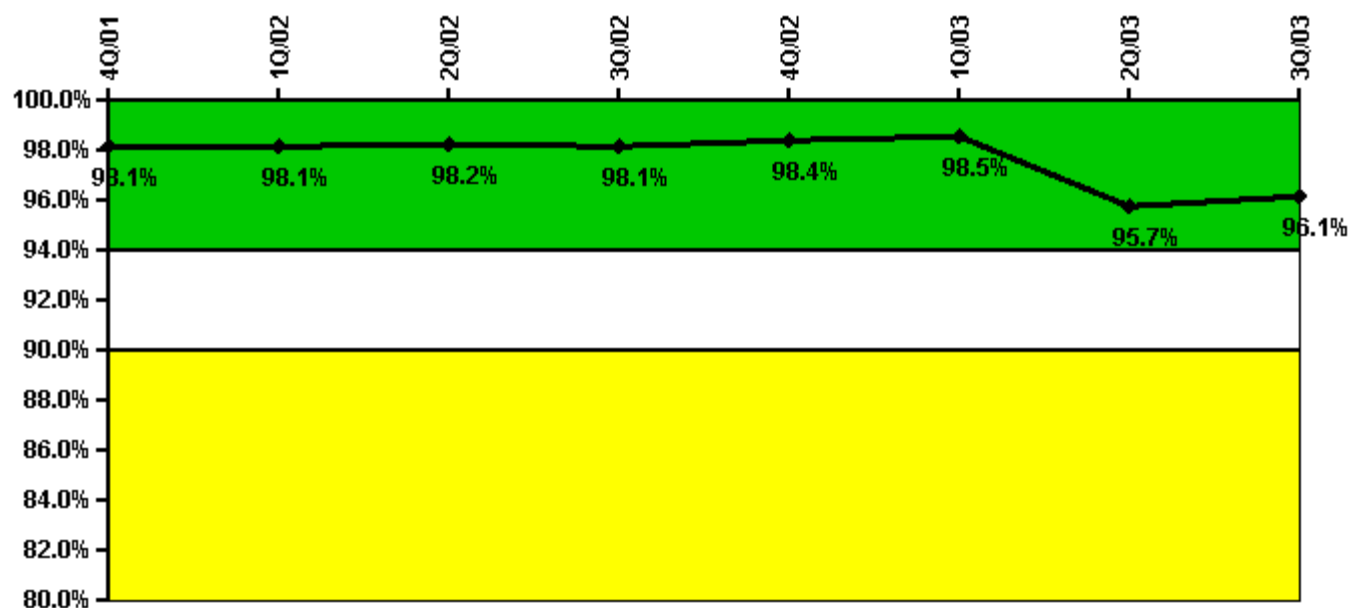
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Participating Key personnel	43.0	48.0	49.0	47.0	50.0	53.0	52.0	54.0
Total Key personnel	45.0	50.0	51.0	49.0	50.0	53.0	52.0	55.0
Indicator value	95.6%	96.0%	96.1%	95.9%	100.0%	100.0%	100.0%	98.2%

Licensee Comments: none

Alert & Notification System



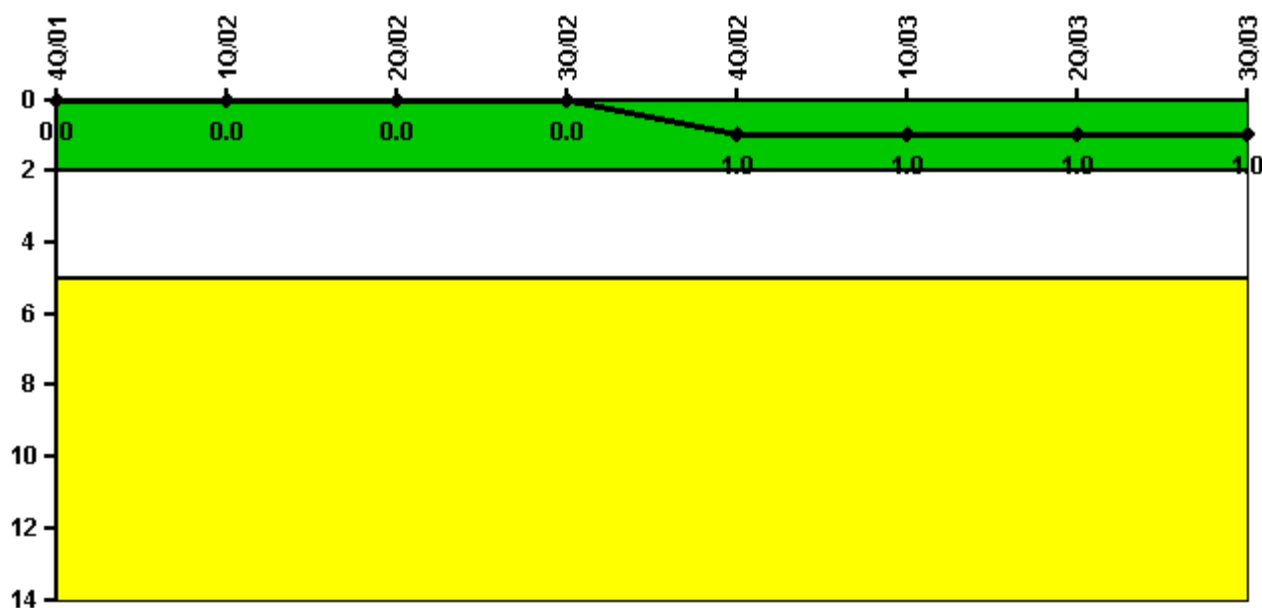
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Successful siren-tests	1197	1003	1111	991	1267	984	1236	1805
Total sirens-tests	1222	1011	1124	1029	1277	988	1386	1857
Indicator value	98.1%	98.1%	98.2%	98.1%	98.4%	98.5%	95.7%	96.1%

Licensee Comments: none

Occupational Exposure Control Effectiveness

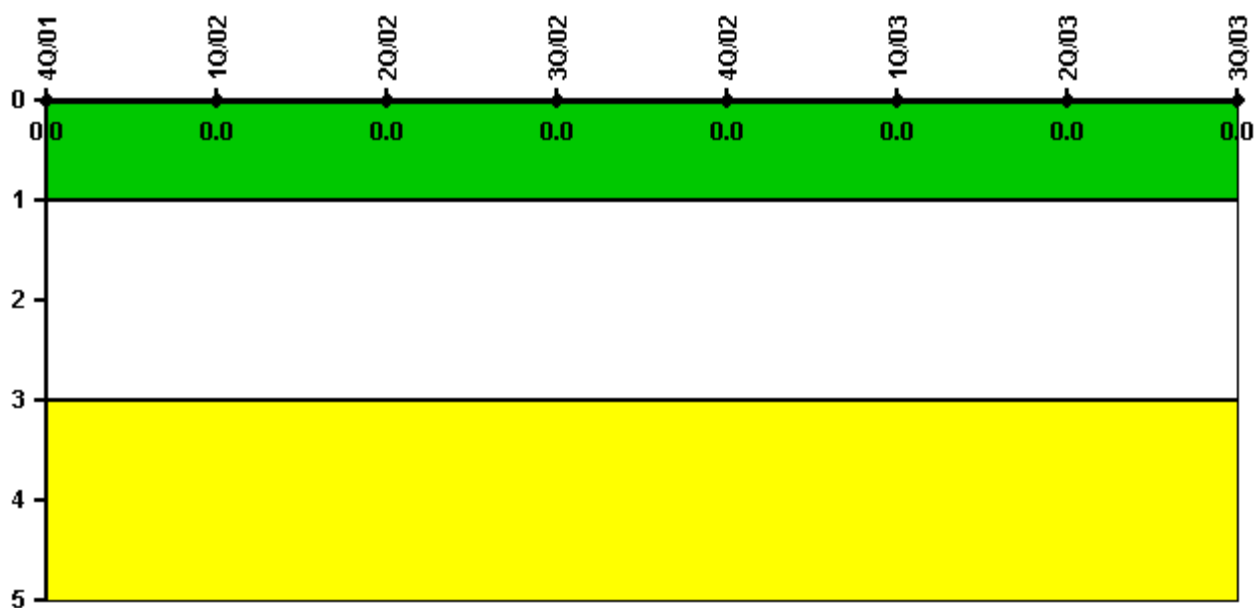


Thresholds: White > 2.0 Yellow > 5.0

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	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

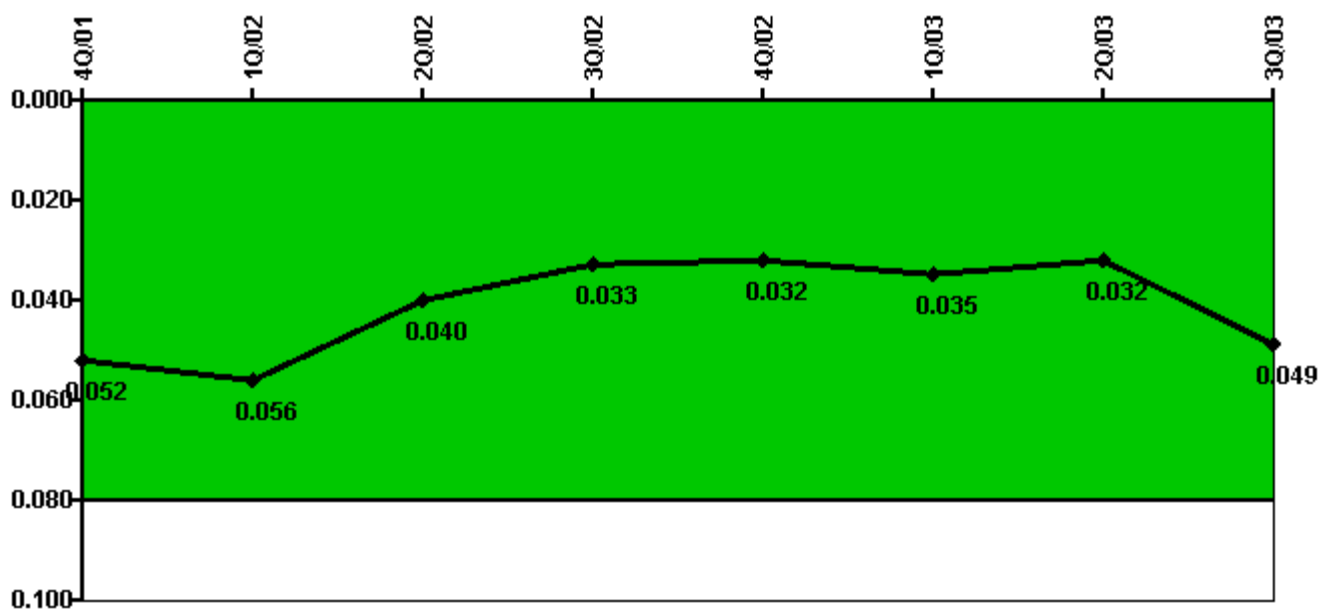
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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



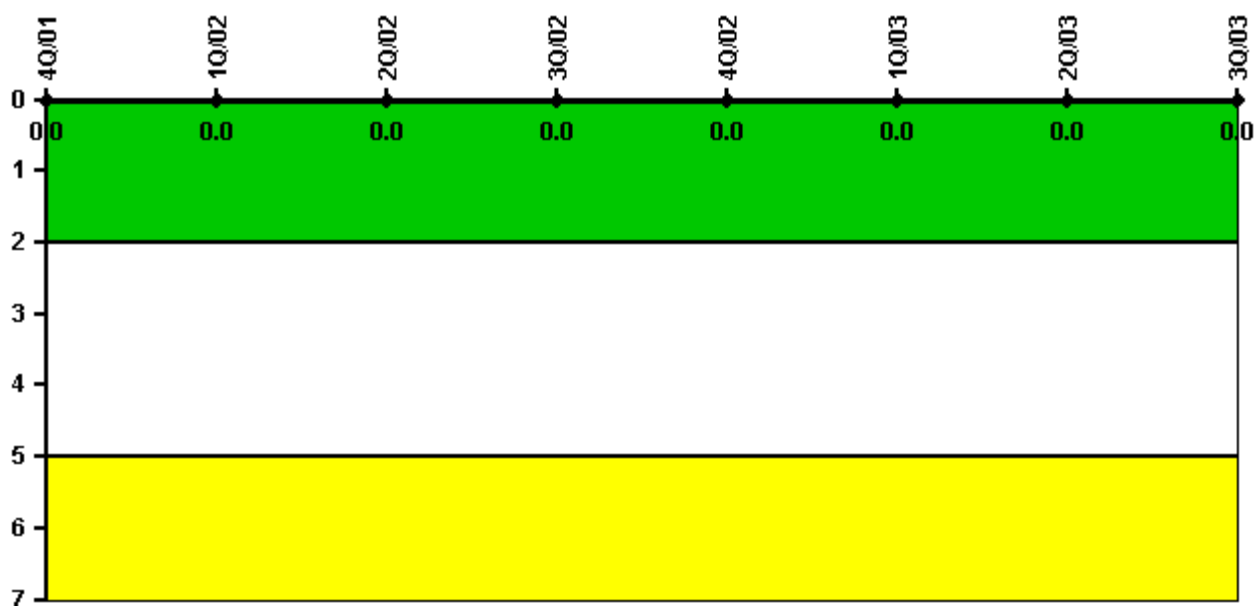
Thresholds: White > 0.080

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	47.93	34.74	206.95	15.55	82.72	141.91	157.00	109.35
CCTV compensatory hours	219.3	72.6	0	2.4	159.2	16.5	5.8	218.7
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	0.052	0.056	0.040	0.033	0.032	0.035	0.032	0.049

Licensee Comments: none

Personnel Screening Program



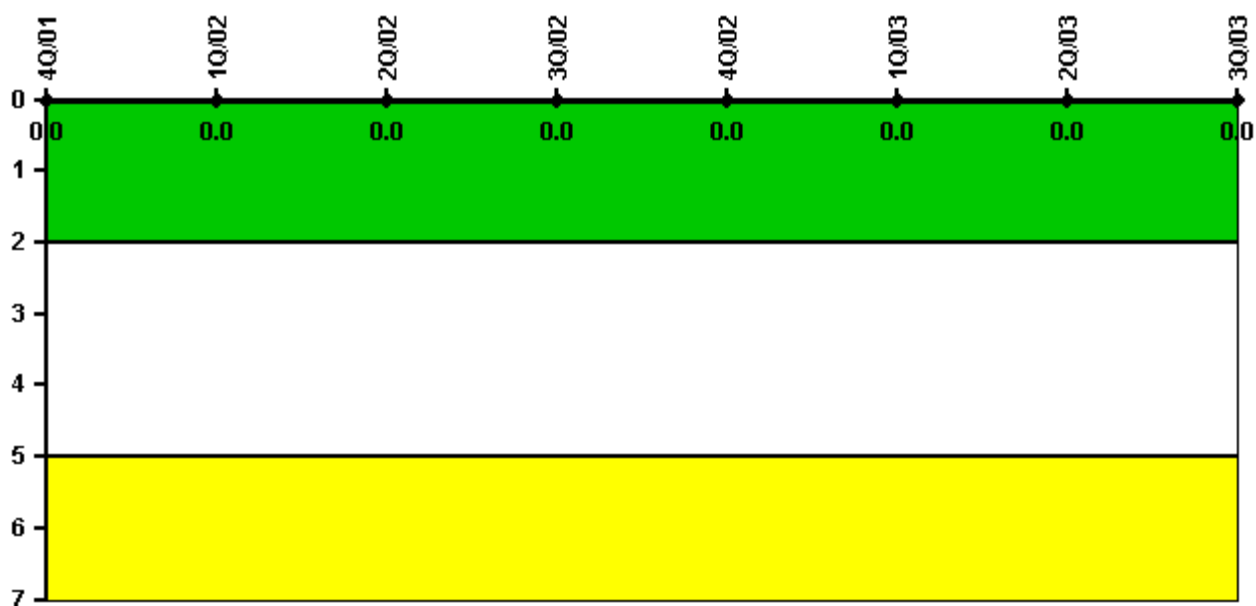
Thresholds: White > 2.0 Yellow > 5.0

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

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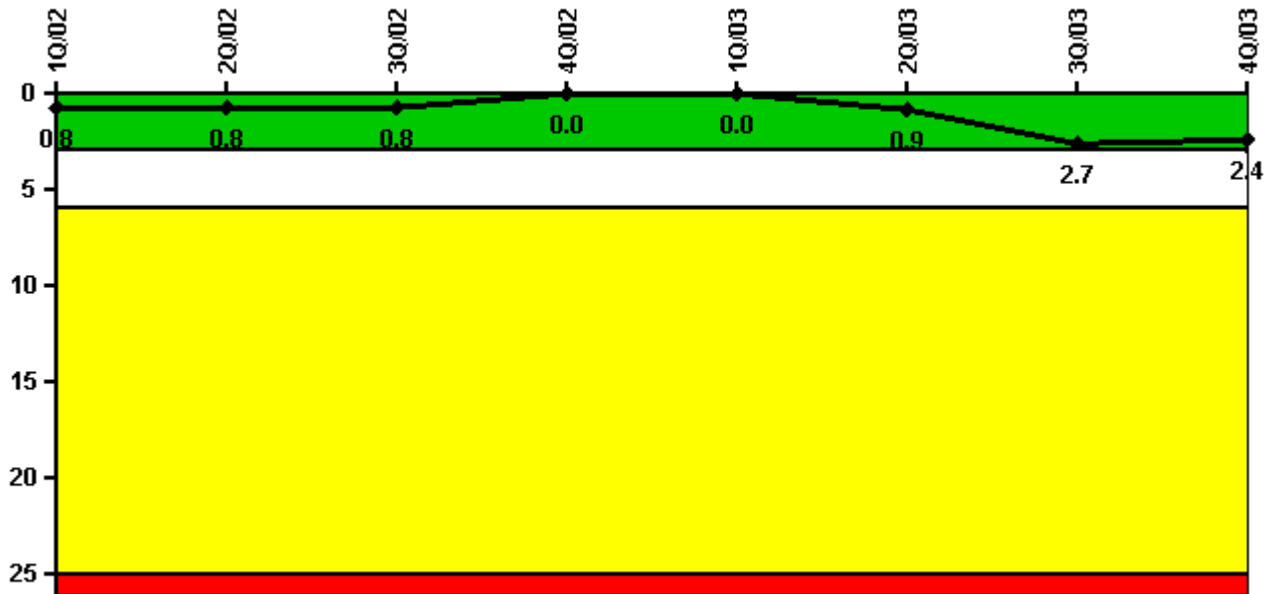
Last Modified: October 22, 2003

Indian Point 2

4Q/2003 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



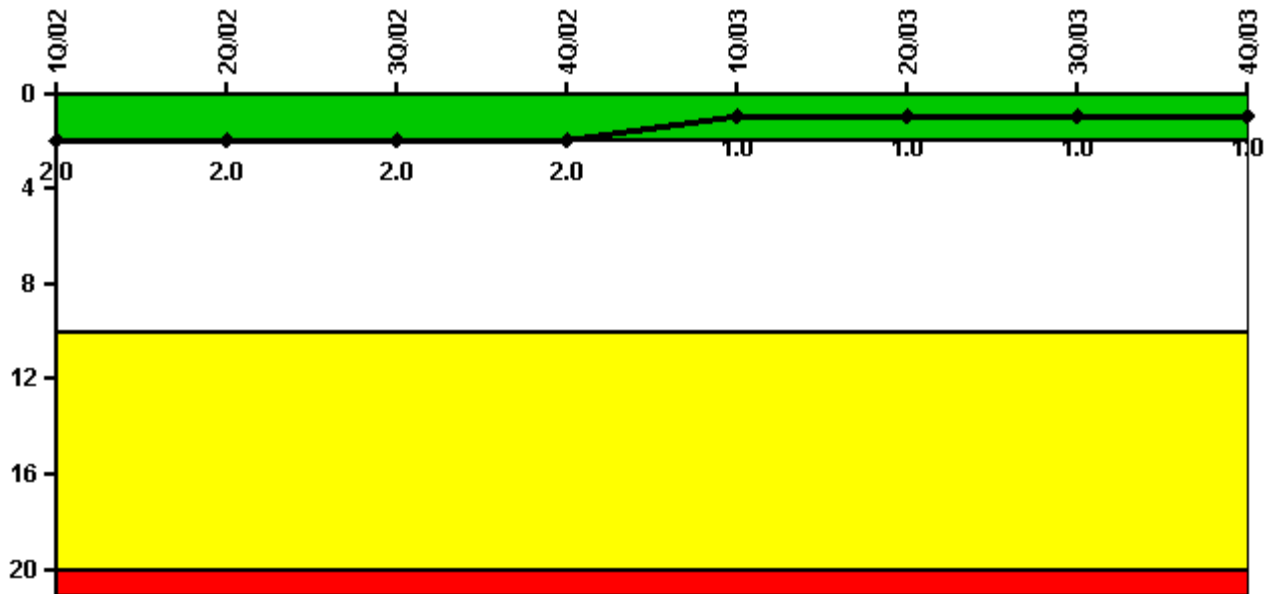
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned scrams	0	0	0	0	0	1.0	2.0	0
Critical hours	2160.0	2183.0	2208.0	1449.9	2160.0	2149.7	2146.2	2209.0
Indicator value	0.8	0.8	0.8	0	0	0.9	2.7	2.4

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



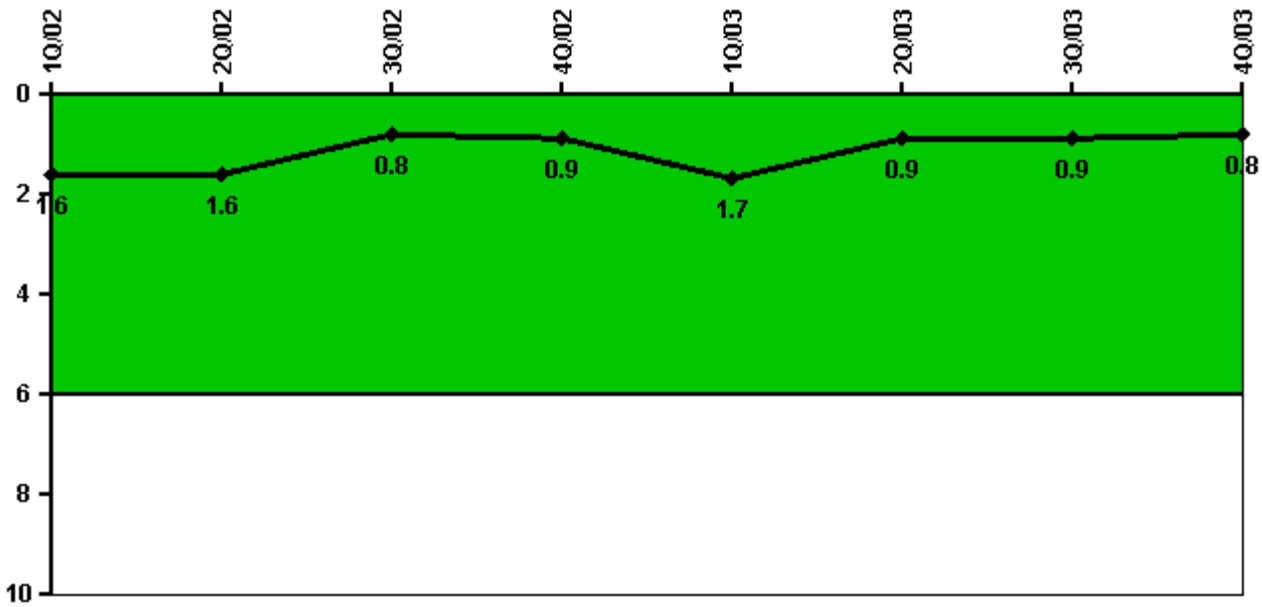
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



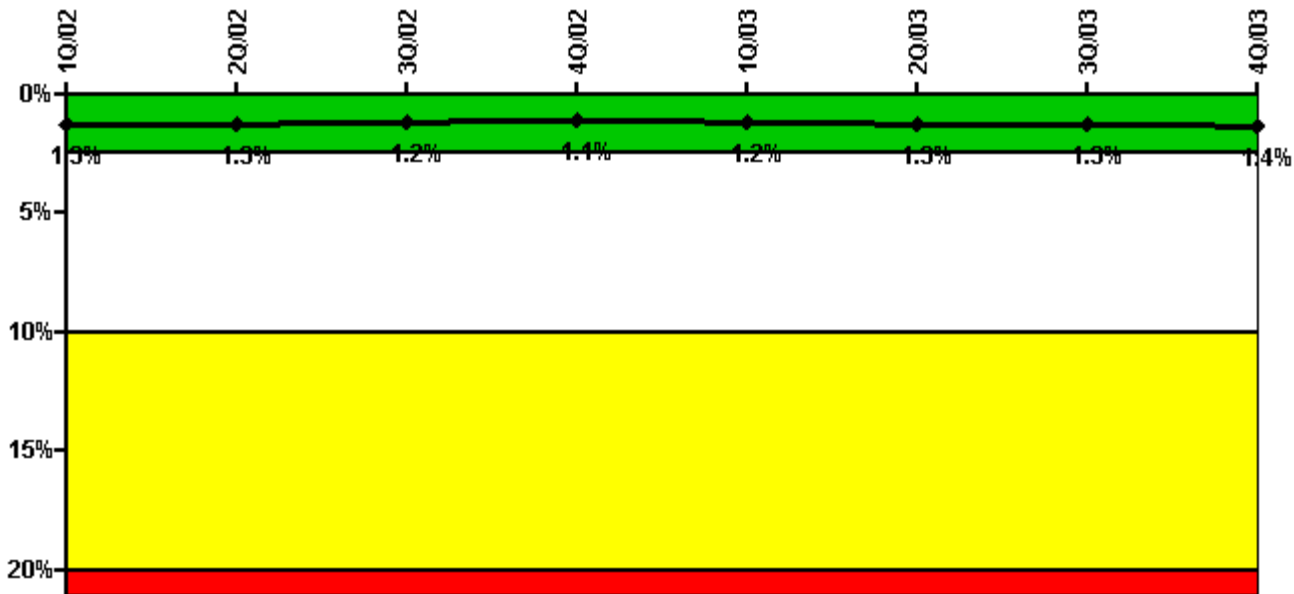
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned power changes	0	1.0	0	0	1.0	0	0	0
Critical hours	2160.0	2183.0	2208.0	1449.9	2160.0	2149.7	2146.2	2209.0
Indicator value	1.6	1.6	0.8	0.9	1.7	0.9	0.9	0.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



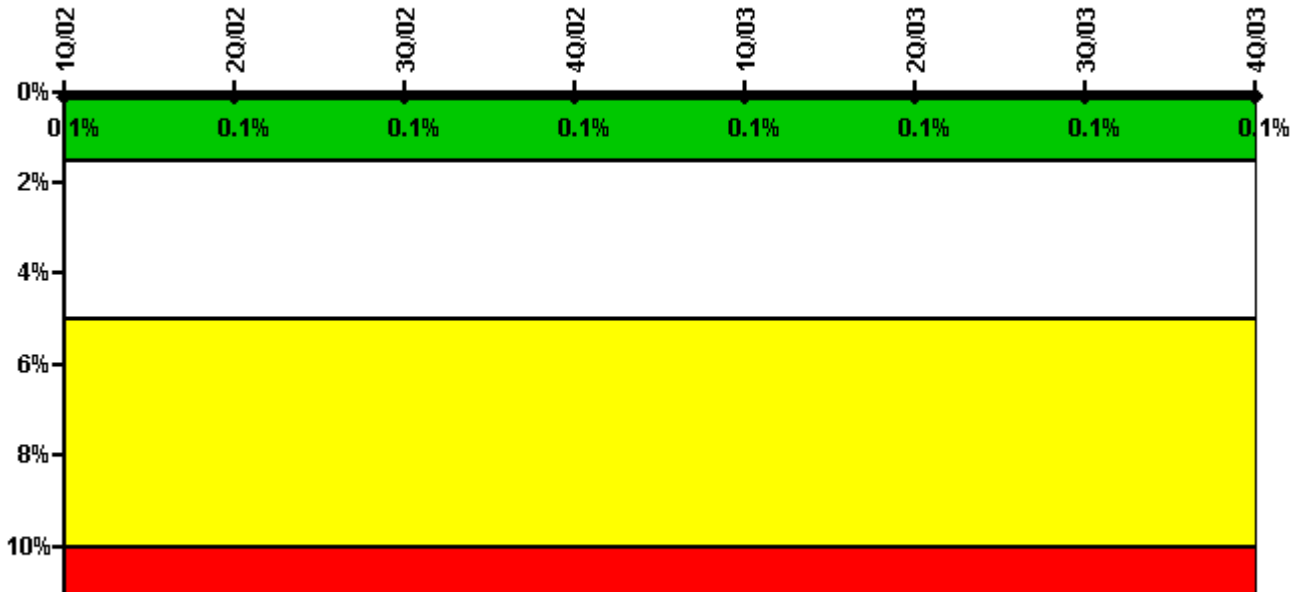
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	0	21.17	4.88	0	68.27	11.35	0	0
Unplanned unavailable hours	0.08	0	0	23.97	0	0	6.57	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	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	34.80	0	0	0	2.00	21.25	0	25.52
Unplanned unavailable hours	18.67	0	29.45	4.57	0	9.42	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	39.72	0	0	0.60	0.22	46.45	0	22.90
Unplanned unavailable hours	23.08	0	0	28.85	46.16	0	0	0
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%	1.3%	1.2%	1.1%	1.2%	1.3%	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%

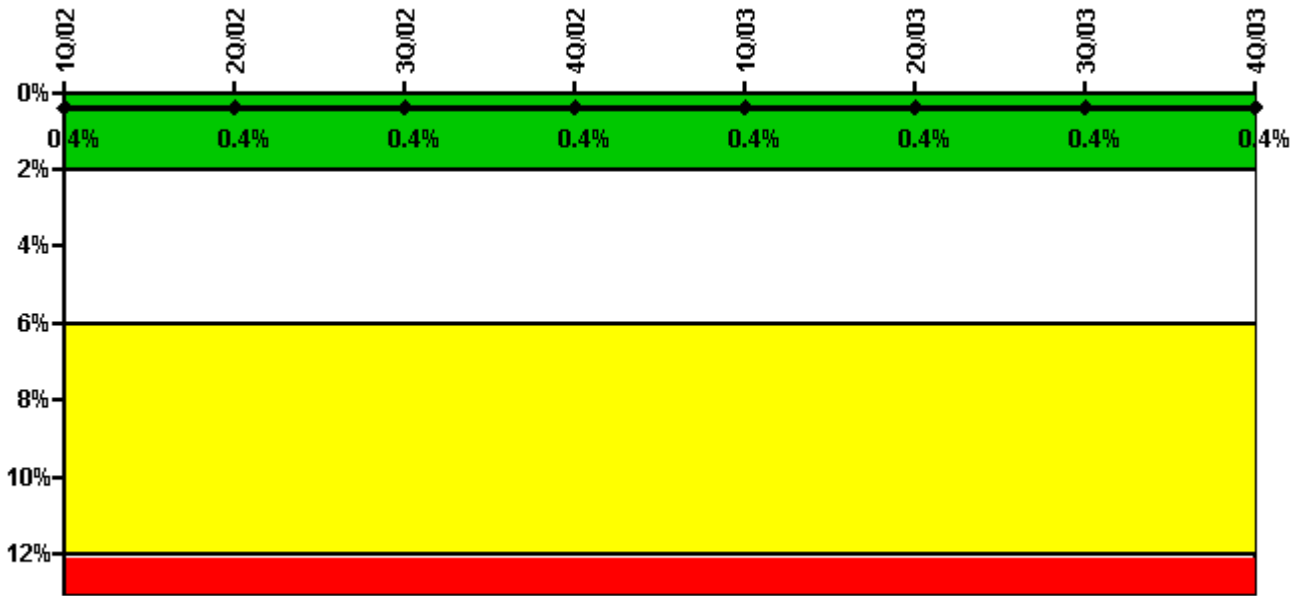
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	0.68	0	0	0	6.00	0	12.00	0
Unplanned unavailable hours	0	0	0.25	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1449.87	2160.00	2183.00	2146.00	2209.00
Train 2								
Planned unavailable hours	0.28	0	1.43	0	0.50	4.76	0	3.00
Unplanned unavailable hours	0	13.30	0	0	0	0	0	4.50
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1449.87	2160.00	2183.00	2146.00	2209.00
Train 3								
Planned unavailable hours	0.41	0	0	0	7.20	0	2.82	2.00
Unplanned unavailable hours	0	0	0	0	0	0	0	6.00
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1449.87	2160.00	2183.00	2146.00	2209.00

Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	0.71	0	3.56	6.75	18.75	16.38	1.50	13.60
Unplanned unavailable hours	33.75	7.82	0	0	0	0	0.16	0
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	1449.87	2160.00	2149.70	2146.00	2209.00
Train 2								
Planned unavailable hours	2.38	10.00	14.32	0.50	19.63	13.25	2.50	4.30
Unplanned unavailable hours	0	0	0.33	0	0	0	0	7.27
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	1449.87	2160.00	2149.70	2146.00	2209.00
Train 3								
Planned unavailable hours	0.33	0.51	8.08	0.38	4.50	9.43	0	11.60
Unplanned unavailable hours	0	0	0	0	0	0	0	0

Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1449.87	2160.00	2149.70	2146.00	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%

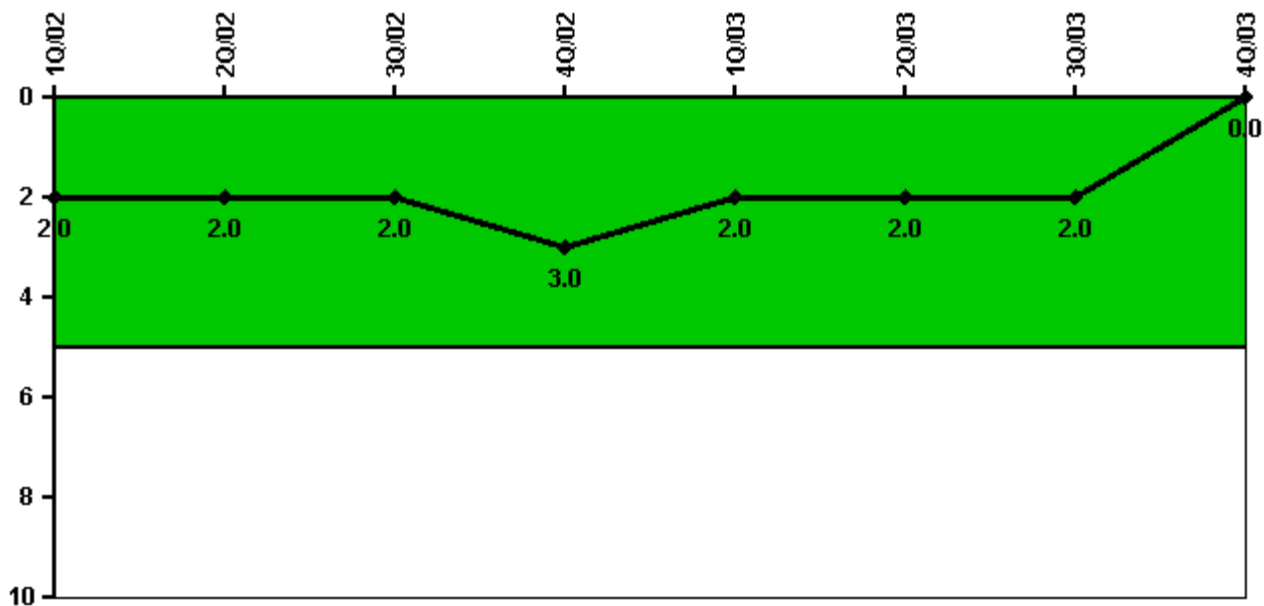
Notes

Safety System Unavailability, Residual Heat Removal System	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	0.45	0	0.32	0	5.50	0	0.33	0
Unplanned unavailable hours	0	0	0	19.30	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2042.60	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0.86	0	0.57	0	5.80	0.56	0	0
Unplanned unavailable hours	0	0	0	0	24.00	0	0	0
Fault exposure hours	0	0	0	0	3.00	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	2160.00	2183.00	2208.00	2042.60	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0.25	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	2160.00	2183.00	2208.00	1449.87	2160.00	2183.00	2146.00	2209.00
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	24.00	0	0	0
Fault exposure hours	0	0	0	0	3.00	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1449.87	2160.00	2183.00	2146.00	2209.00
Indicator value	0.1%	0.1%	0%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

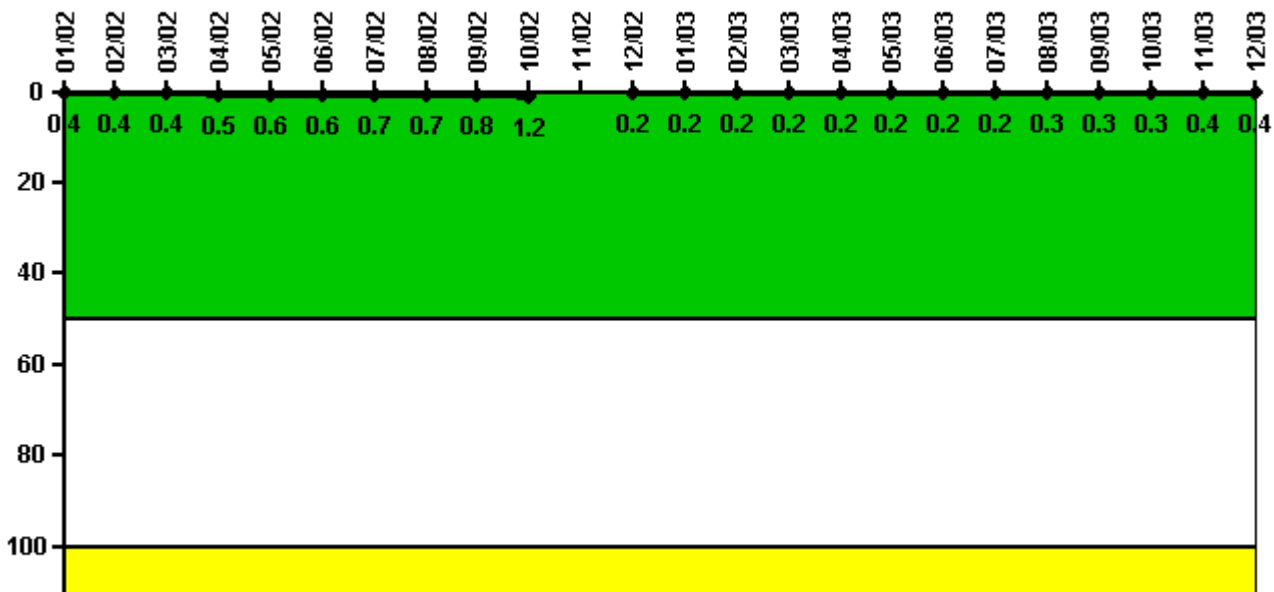
Notes

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

Indicator value	2	2	2	3	2	2	2	0

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

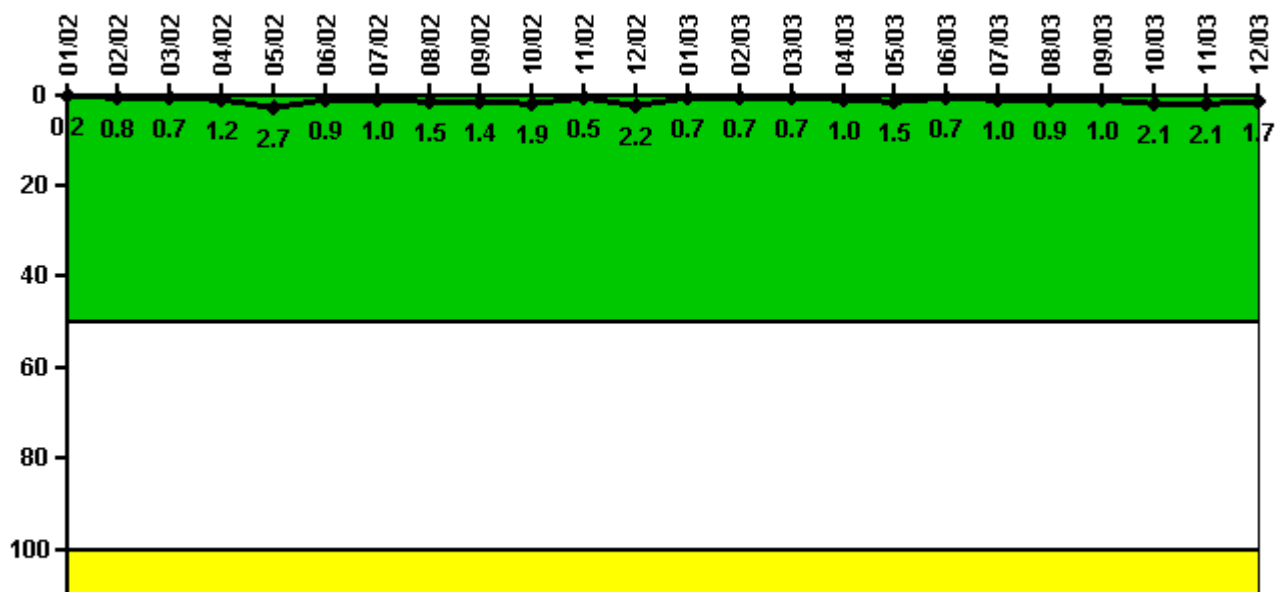
Notes

Reactor Coolant System Activity	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum activity	0.003800	0.004300	0.004300	0.004900	0.005800	0.006400	0.006600	0.007200	0.007700	0.012000	N/A	0.001600
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	1.2	N/A	0.2

Reactor Coolant System Activity	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum activity	0.001800	0.001900	0.002100	0.002100	0.002200	0.002300	0.002200	0.002800	0.003100	0.003330	0.004160	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

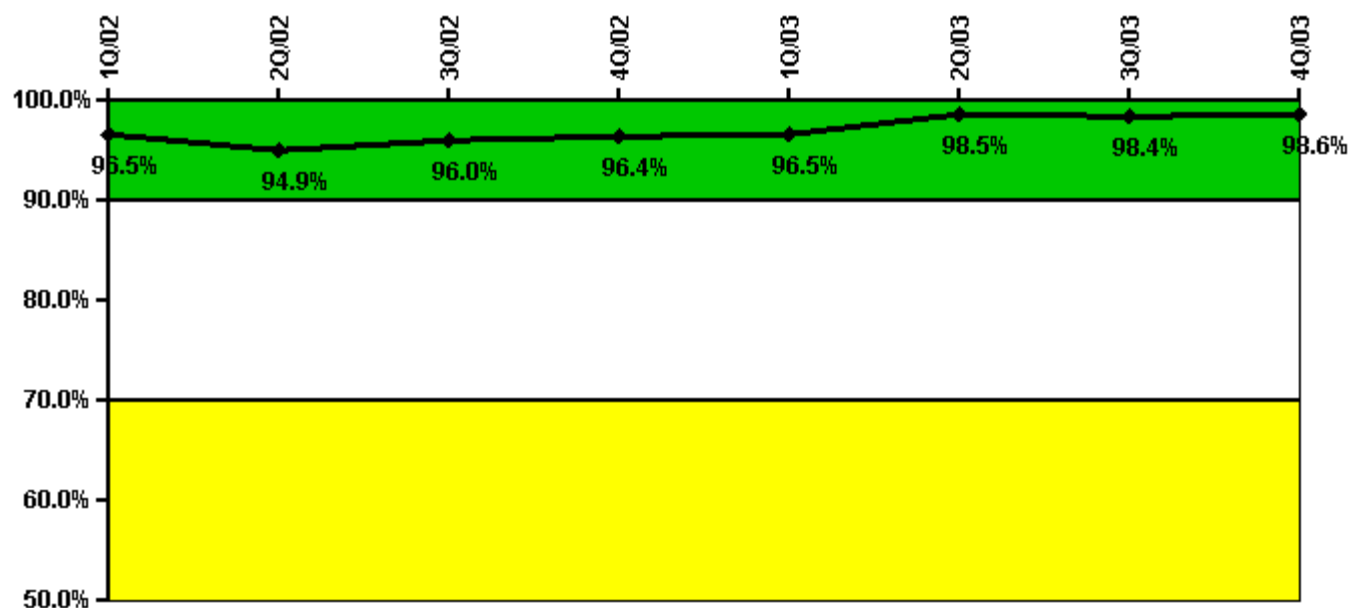
Notes

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	0.019	0.077	0.068	0.118	0.269	0.090	0.099	0.154	0.143	0.190	0.052	0.224
Technical specification limit	10.0	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	0.8	0.7	1.2	2.7	0.9	1.0	1.5	1.4	1.9	0.5	2.2

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	0.067	0.070	0.070	0.102	0.148	0.075	0.097	0.093	0.096	0.211	0.211	0.168
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.7	0.7	1.0	1.5	0.7	1.0	0.9	1.0	2.1	2.1	1.7

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

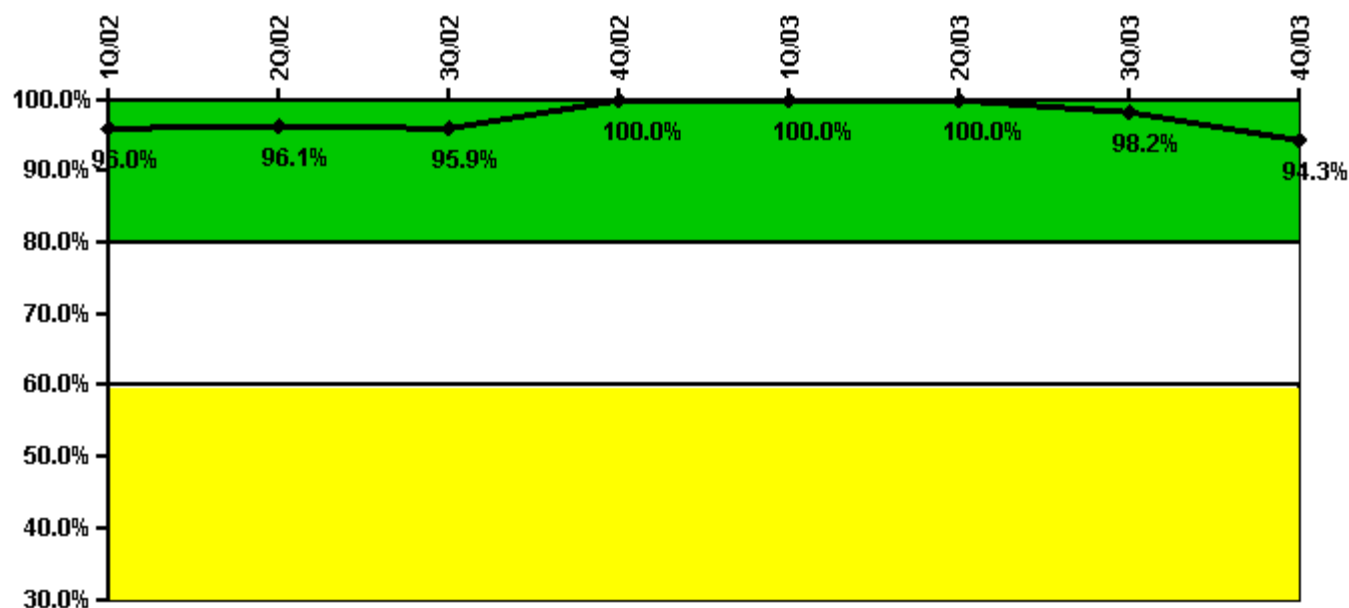
Notes

Drill/Exercise Performance	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Successful opportunities	6.0	22.0	50.0	2.0	7.0	9.0	21.0	24.0
Total opportunities	6.0	24.0	50.0	2.0	7.0	9.0	21.0	24.0
Indicator value	96.5%	94.9%	96.0%	96.4%	96.5%	98.5%	98.4%	98.6%

Licensee Comments:

3Q/03: Training Department provided additional data, reflecting training performed by various key ERO Operations personnel. No change in indicator color.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

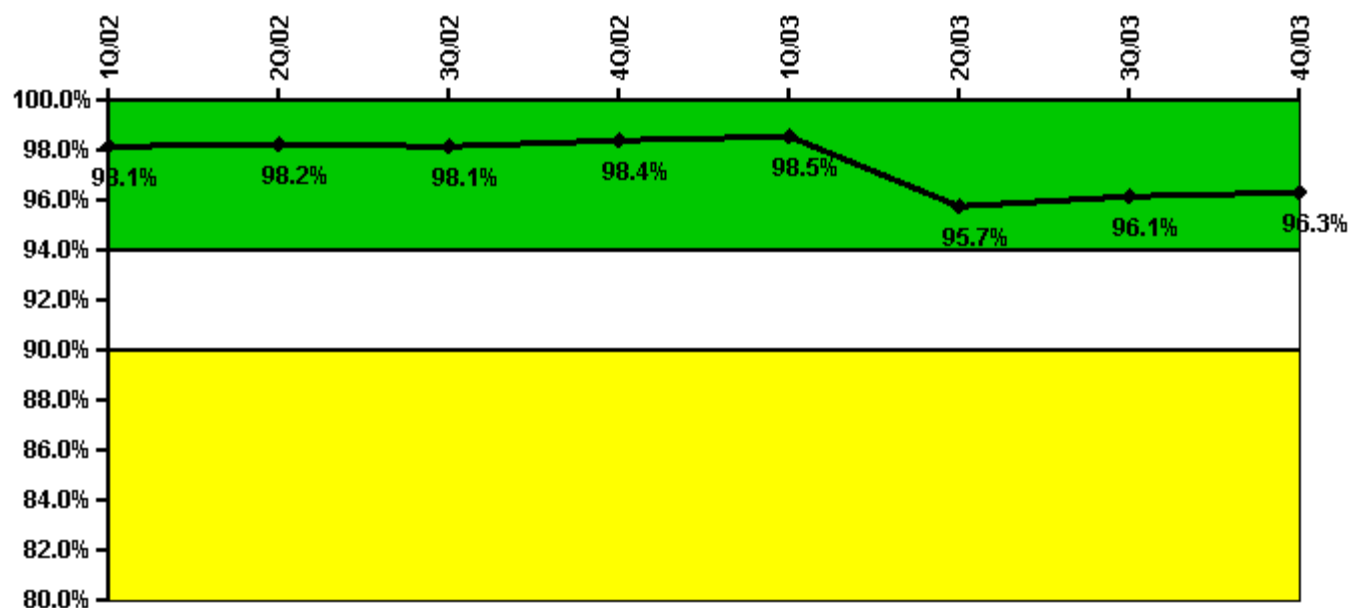
Notes

ERO Drill Participation	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Participating Key personnel	48.0	49.0	47.0	50.0	53.0	53.0	55.0	50.0
Total Key personnel	50.0	51.0	49.0	50.0	53.0	53.0	56.0	53.0
Indicator value	96.0%	96.1%	95.9%	100.0%	100.0%	100.0%	98.2%	94.3%

Licensee Comments:

3Q/03: Additional data was received for training of key ERO members. This changed participation data resulting in additional qualified individual. No change in indicator color.

Alert & Notification System



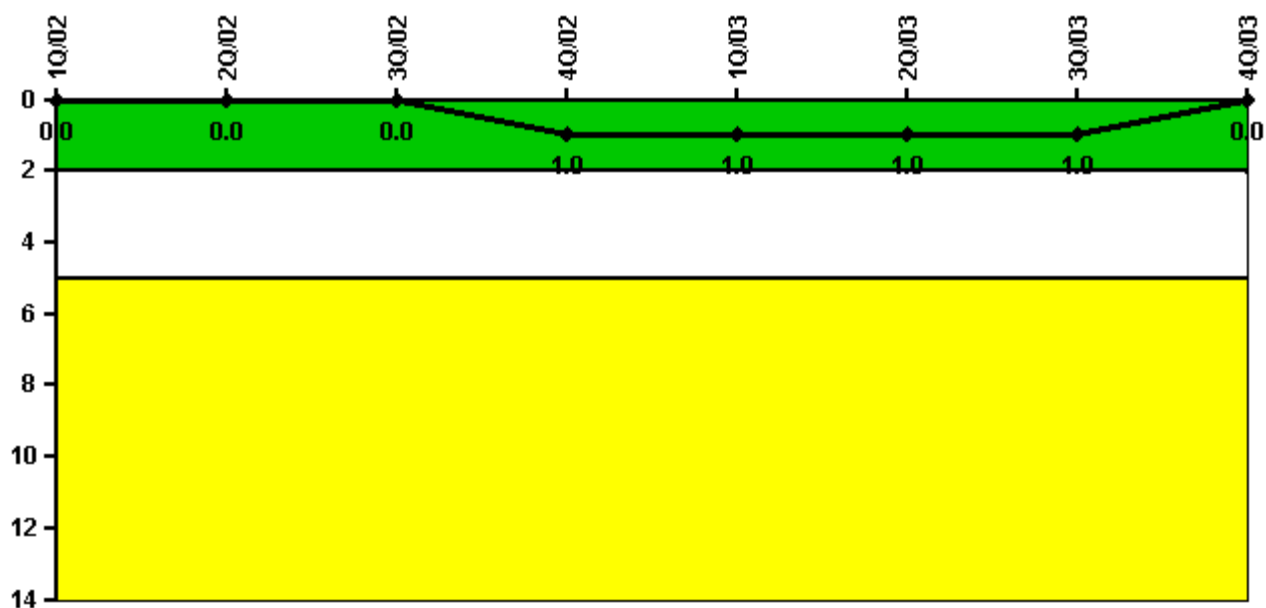
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Successful siren-tests	1003	1111	991	1267	984	1236	1805	1901
Total sirens-tests	1011	1124	1029	1277	988	1386	1857	1920
Indicator value	98.1%	98.2%	98.1%	98.4%	98.5%	95.7%	96.1%	96.3%

Licensee Comments: none

Occupational Exposure Control Effectiveness

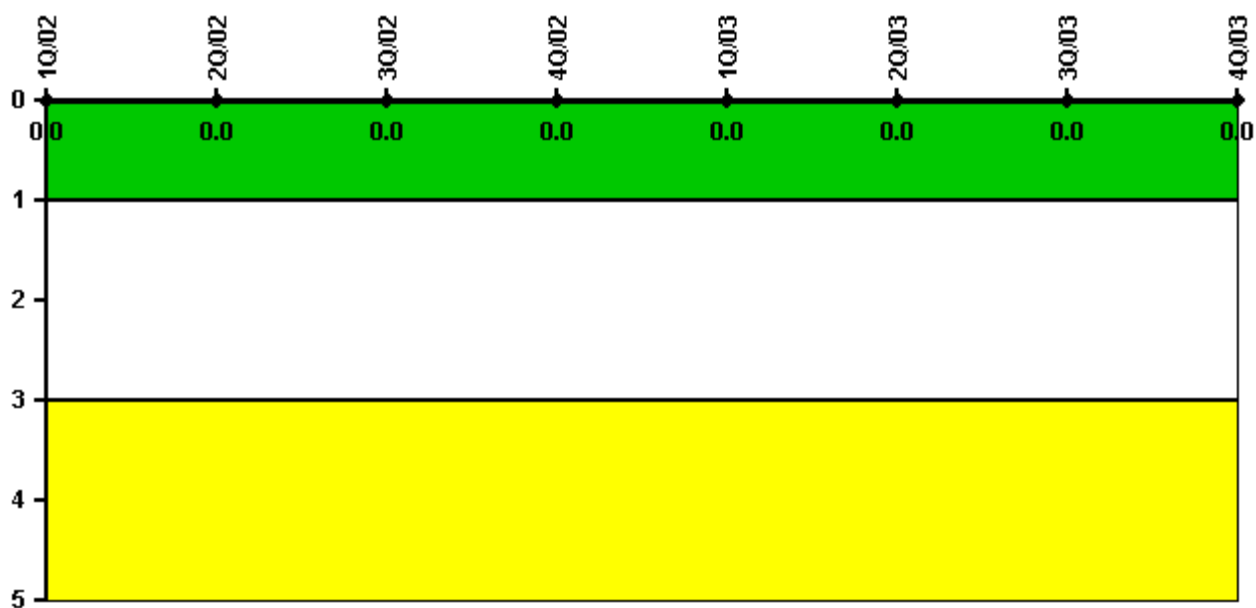


Thresholds: White > 2.0 Yellow > 5.0

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	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

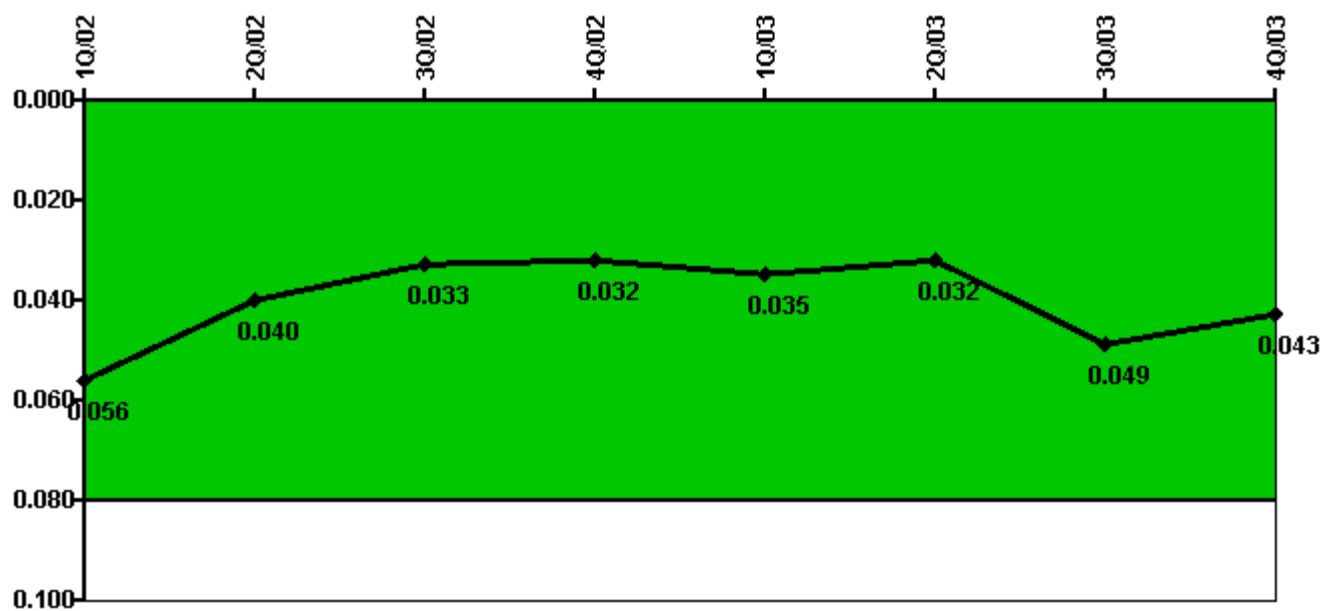
Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	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



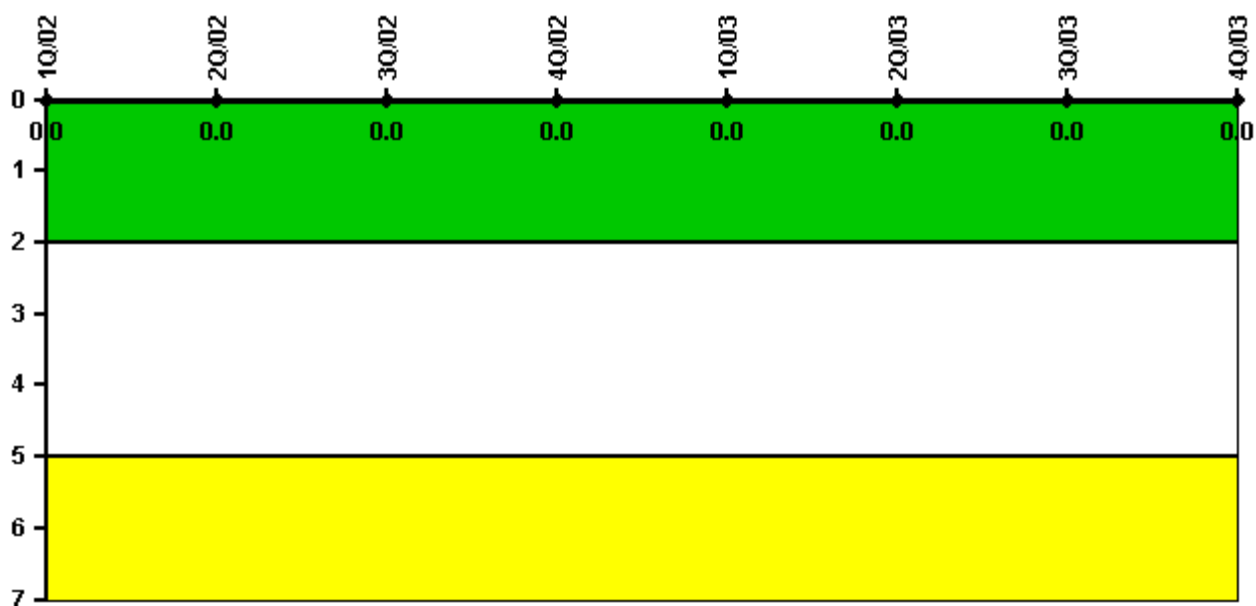
Thresholds: White > 0.080

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	34.74	206.95	15.55	82.72	141.91	157.00	109.35	59.40
CCTV compensatory hours	72.6	0	2.4	159.2	16.5	5.8	218.7	82.6
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	0.056	0.040	0.033	0.032	0.035	0.032	0.049	0.043

Licensee Comments: none

Personnel Screening Program



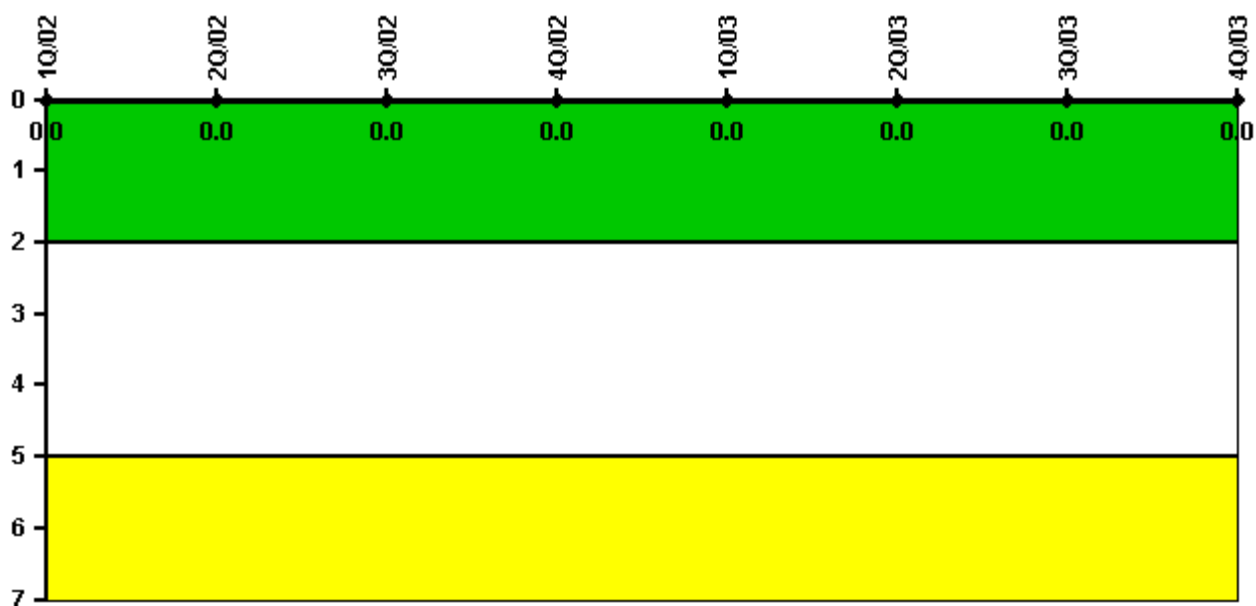
Thresholds: White > 2.0 Yellow > 5.0

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](#)

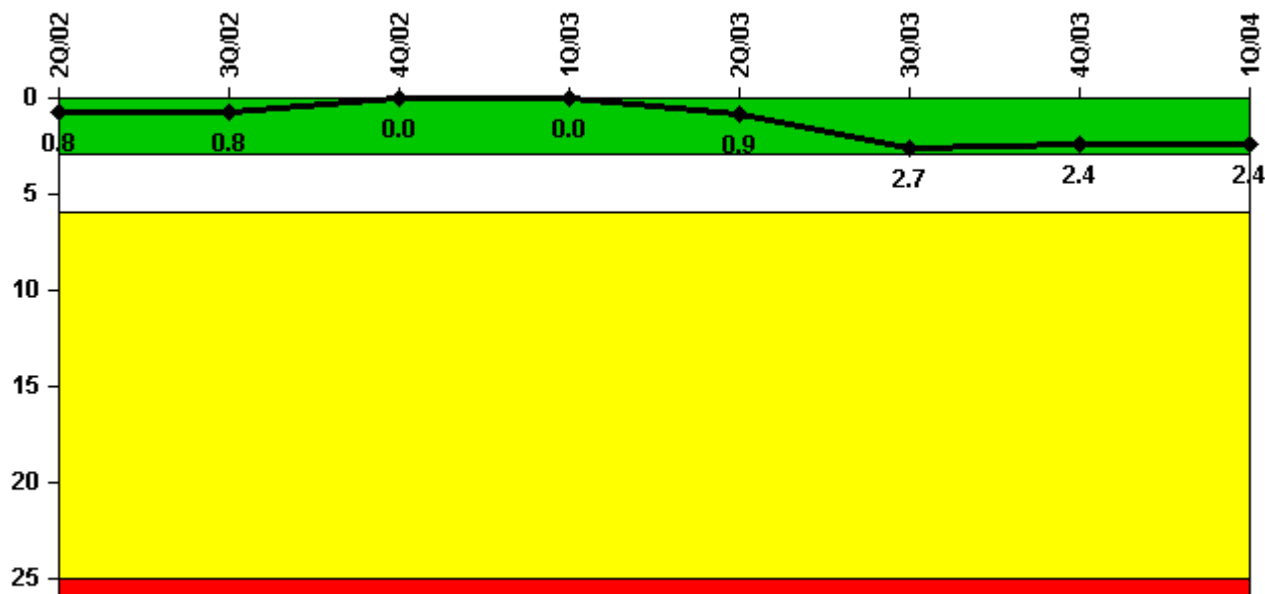
Last Modified: January 23, 2004

Indian Point 2

1Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



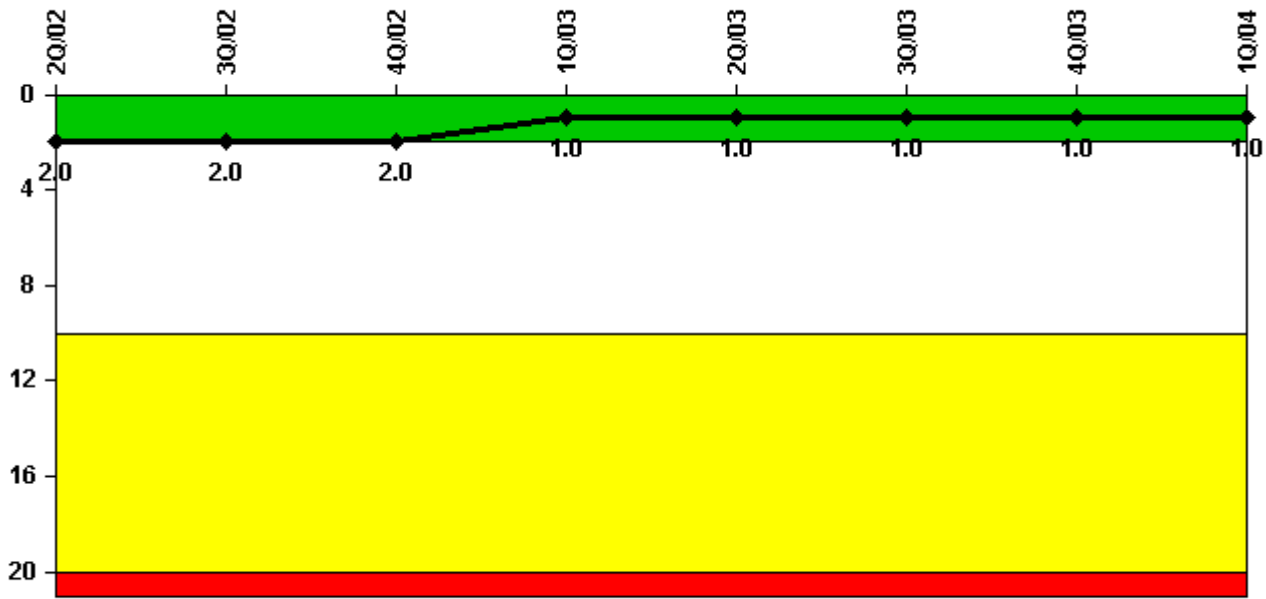
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned scrams	0	0	0	0	1.0	2.0	0	0
Critical hours	2183.0	2208.0	1449.9	2160.0	2149.7	2146.2	2209.0	2184.0
Indicator value	0.8	0.8	0	0	0.9	2.7	2.4	2.4

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



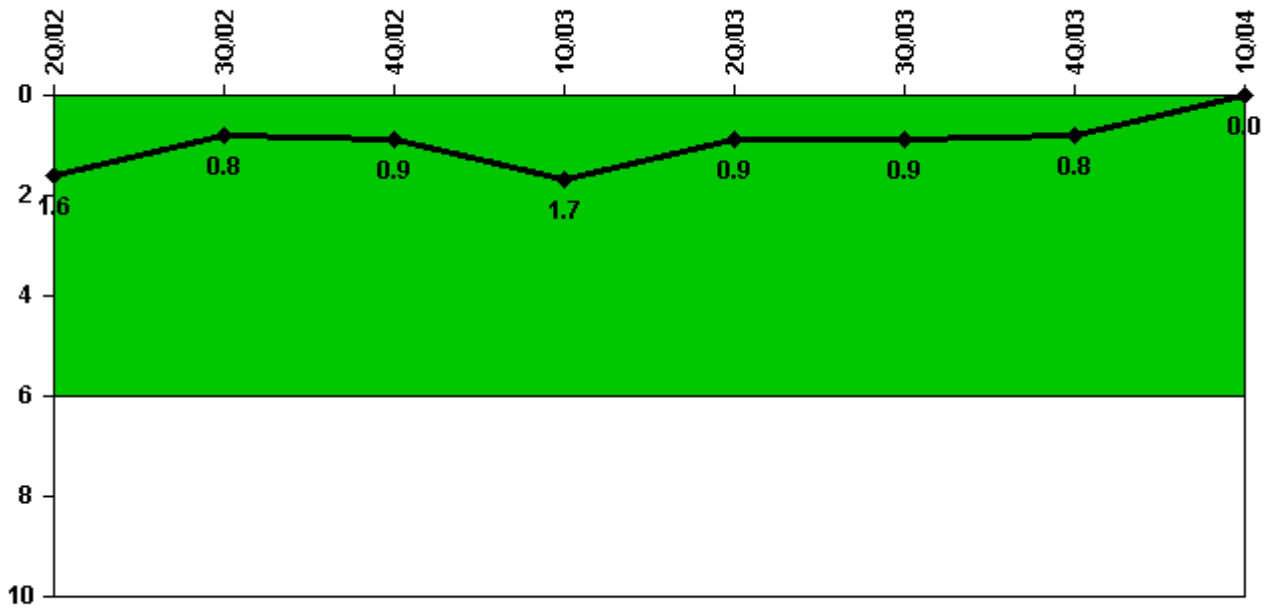
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



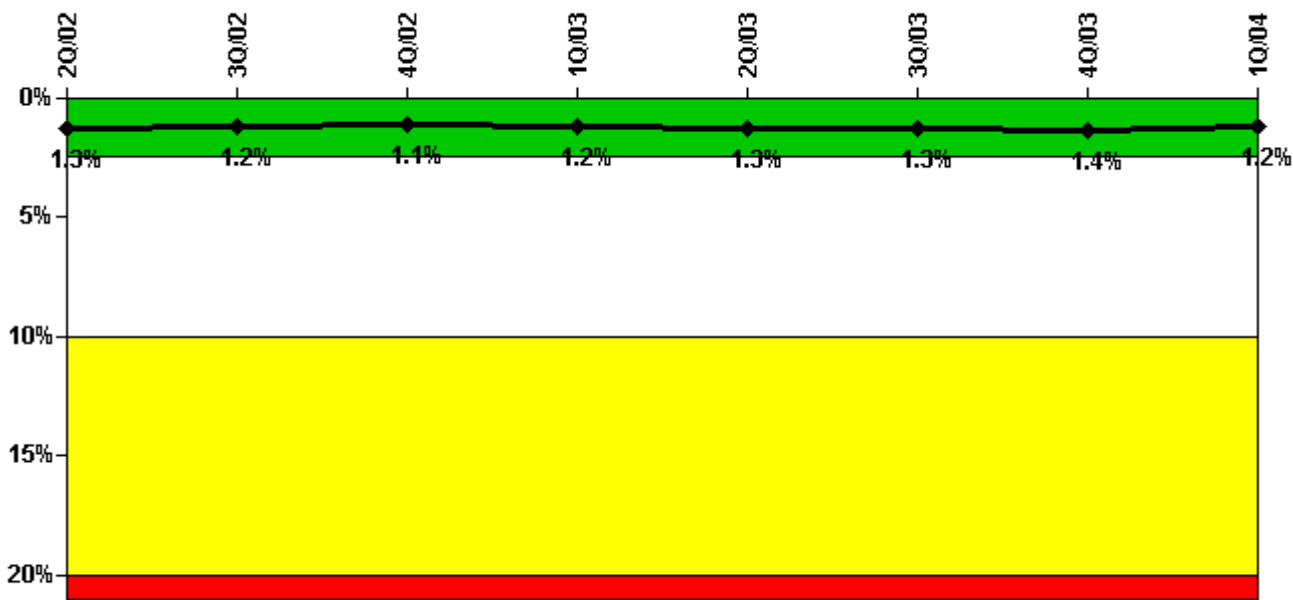
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned power changes	1.0	0	0	1.0	0	0	0	0
Critical hours	2183.0	2208.0	1449.9	2160.0	2149.7	2146.2	2209.0	2184.0
Indicator value	1.6	0.8	0.9	1.7	0.9	0.9	0.8	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



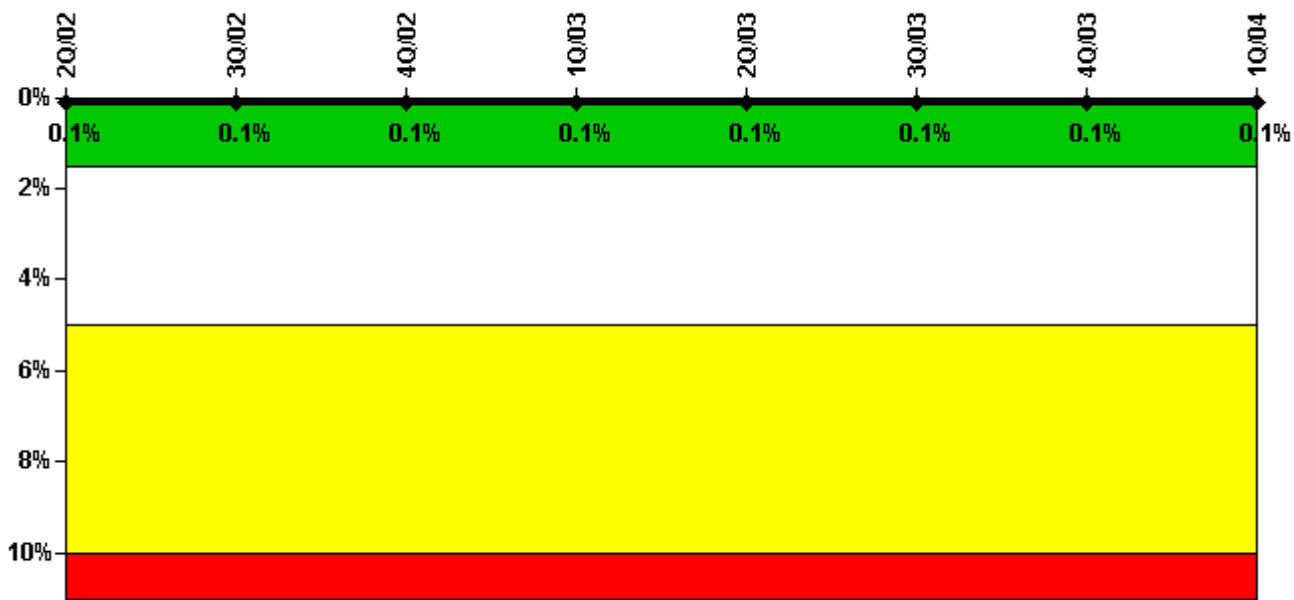
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	21.17	4.88	0	68.27	11.35	0	0	30.01
Unplanned unavailable hours	0	0	23.97	0	0	6.57	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	2160.00	2183.00	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	0	0	0	2.00	21.25	0	25.52	17.73
Unplanned unavailable hours	0	29.45	4.57	0	9.42	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
Train 3								
Planned unavailable hours	0	0	0.60	0.22	46.45	0	22.90	8.00
Unplanned unavailable hours	0	0	28.85	46.16	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value	1.3%	1.2%	1.1%	1.2%	1.3%	1.3%	1.4%	1.2%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



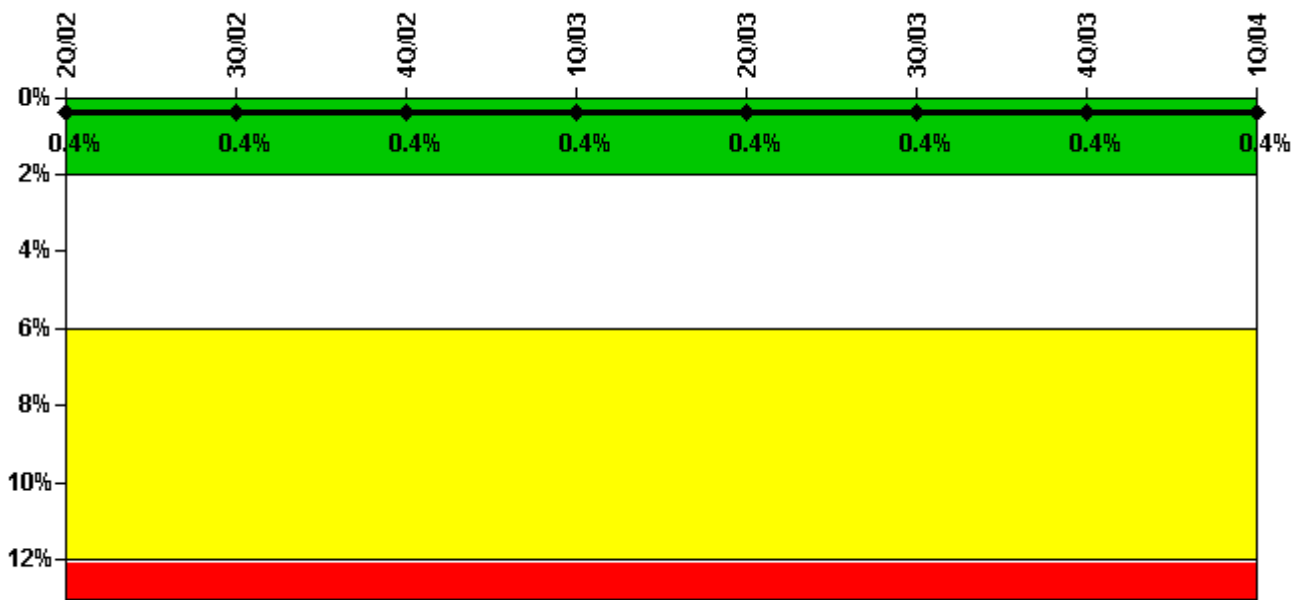
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0	0	0	6.00	0	12.00	0	0
Unplanned unavailable hours	0	0.25	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1449.87	2160.00	2183.00	2146.00	2209.00	2184.00
Train 2								
Planned unavailable hours	0	1.43	0	0.50	4.76	0	3.00	2.57
Unplanned unavailable hours	13.30	0	0	0	0	0	4.50	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1449.87	2160.00	2183.00	2146.00	2209.00	2184.00
Train 3								
Planned unavailable hours	0	0	0	7.20	0	2.82	2.00	8.65
Unplanned unavailable hours	0	0	0	0	0	0	6.00	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	1449.87	2160.00	2183.00	2146.00	2209.00	2184.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



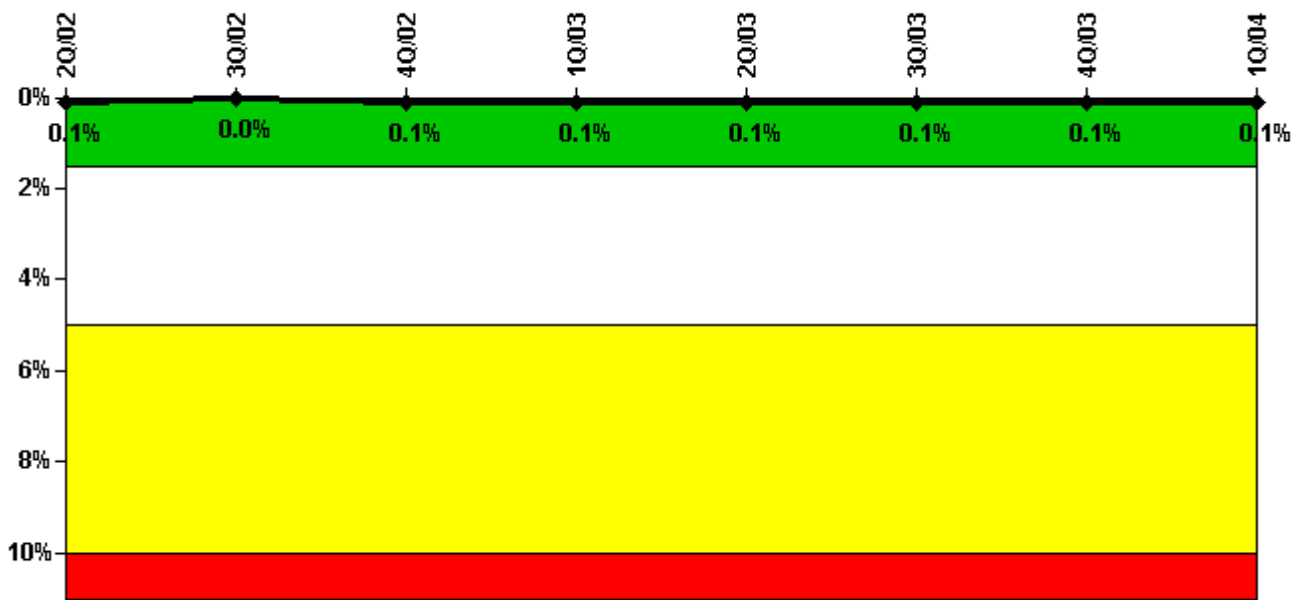
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0	3.56	6.75	18.75	16.38	1.50	13.60	12.00
Unplanned unavailable hours	7.82	0	0	0	0	0.16	0	0
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	1449.87	2160.00	2149.70	2146.00	2209.00	2184.00
Train 2								
Planned unavailable hours	10.00	14.32	0.50	19.63	13.25	2.50	4.30	7.11
Unplanned unavailable hours	0	0.33	0	0	0	0	7.27	0
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	1449.87	2160.00	2149.70	2146.00	2209.00	2184.00
Train 3								
Planned unavailable hours	0.51	8.08	0.38	4.50	9.43	0	11.60	4.70
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1449.87	2160.00	2149.70	2146.00	2209.00	2184.00
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



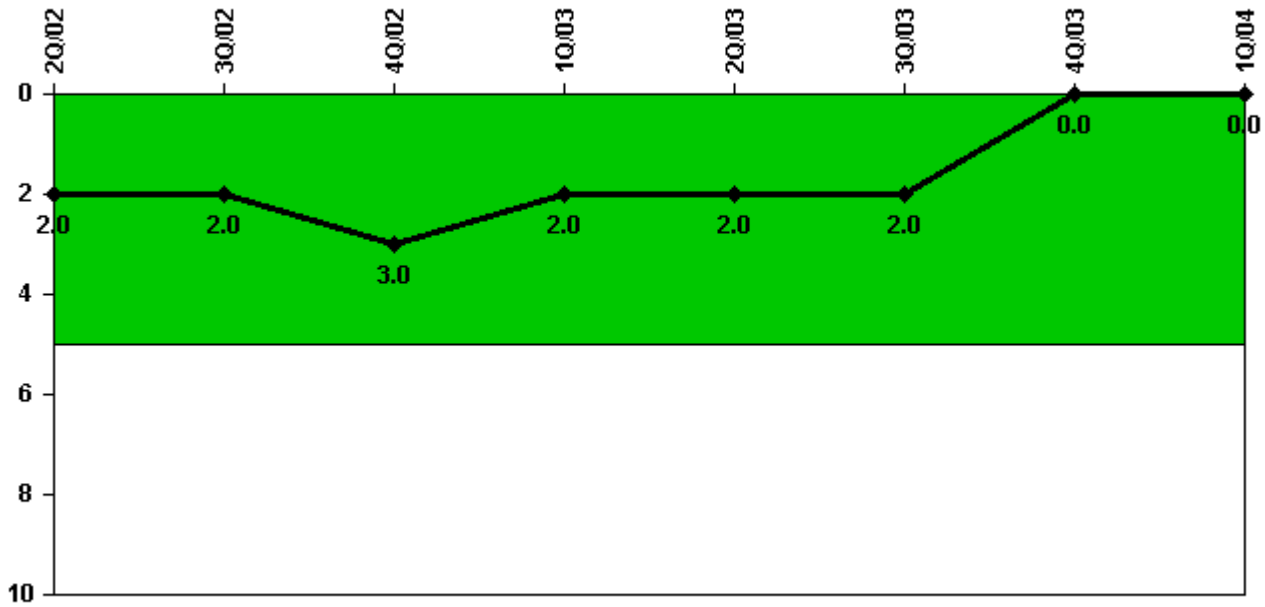
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0	0.32	0	5.50	0	0.33	0	6.60
Unplanned unavailable hours	0	0	19.30	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2042.60	2160.00	2183.00	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	0	0.57	0	5.80	0.56	0	0	3.50
Unplanned unavailable hours	0	0	0	24.00	0	0	0	0
Fault exposure hours	0	0	0	3.00	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2042.60	2160.00	2183.00	2208.00	2209.00	2184.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0.25	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1449.87	2160.00	2183.00	2146.00	2209.00	2184.00
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	24.00	0	0	0	0
Fault exposure hours	0	0	0	3.00	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1449.87	2160.00	2183.00	2146.00	2209.00	2184.00
Indicator value	0.1%	0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Licensee Comments: none

Safety System Functional Failures (PWR)



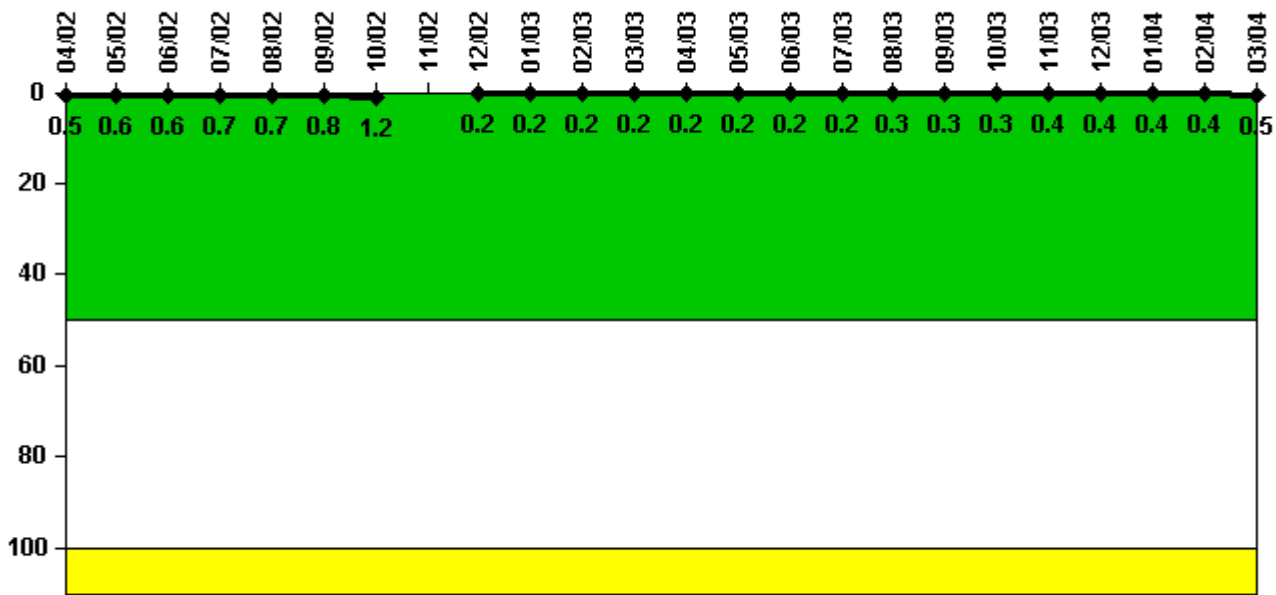
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

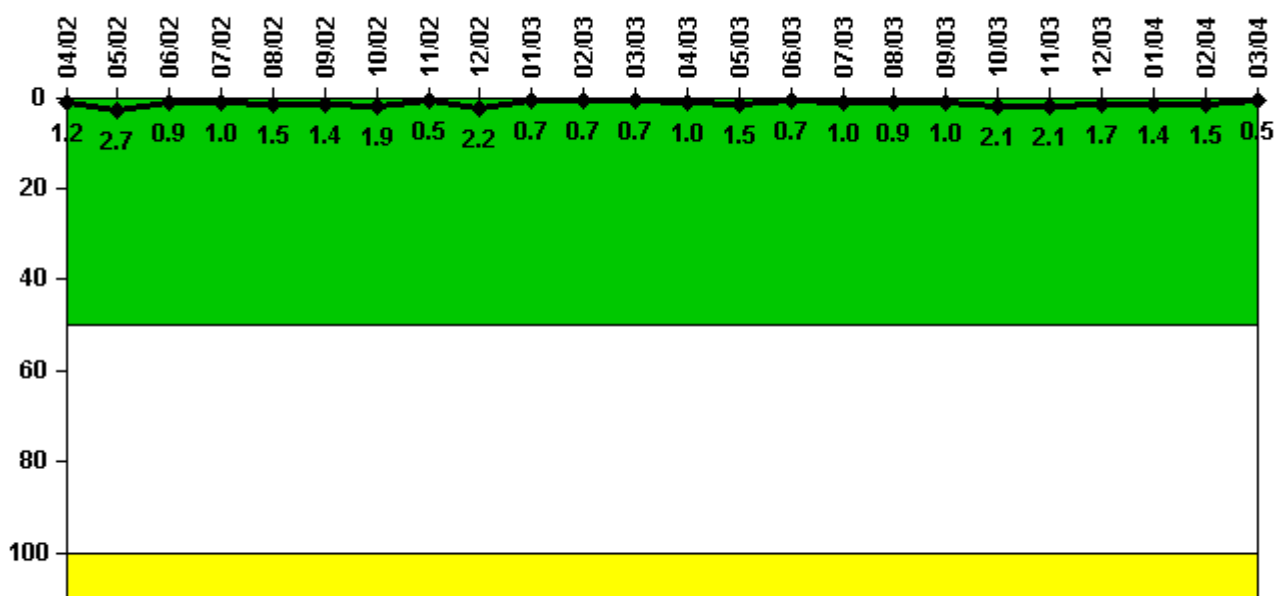
Notes

Reactor Coolant System Activity	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum activity	0.004900	0.005800	0.006400	0.006600	0.007200	0.007700	0.012000	N/A	0.001600	0.001800	0.001900	0.002100
Technical specification limit	1.0	1.0	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	0.7	0.7	0.8	1.2	N/A	0.2	0.2	0.2	0.2

Reactor Coolant System Activity	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04
Maximum activity	0.002100	0.002200	0.002300	0.002200	0.002800	0.003100	0.003330	0.004160	0.004110	0.004230	0.004400	0.004620
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

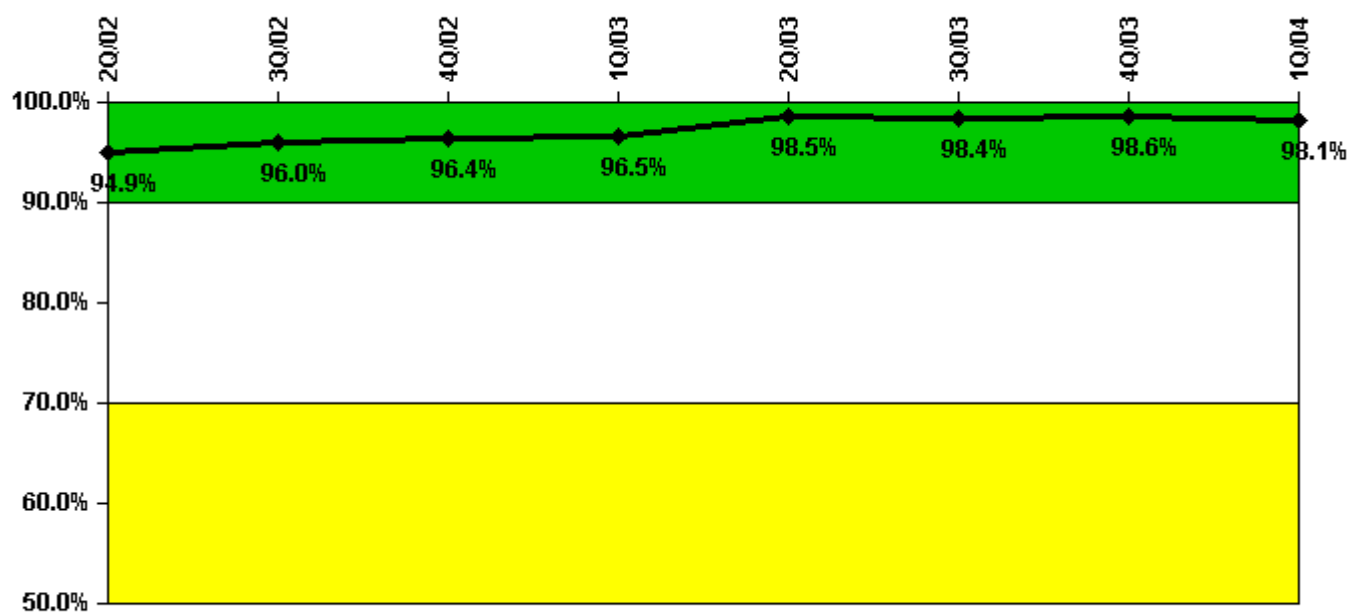
Notes

Reactor Coolant System Leakage	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	0.118	0.269	0.090	0.099	0.154	0.143	0.190	0.052	0.224	0.067	0.070	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.2	2.7	0.9	1.0	1.5	1.4	1.9	0.5	2.2	0.7	0.7	0.7

Reactor Coolant System Leakage	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04
Maximum leakage	0.102	0.148	0.075	0.097	0.093	0.096	0.211	0.211	0.168	0.139	0.147	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.5	0.7	1.0	0.9	1.0	2.1	2.1	1.7	1.4	1.5	0.5

Licensee Comments: none

Drill/Exercise Performance



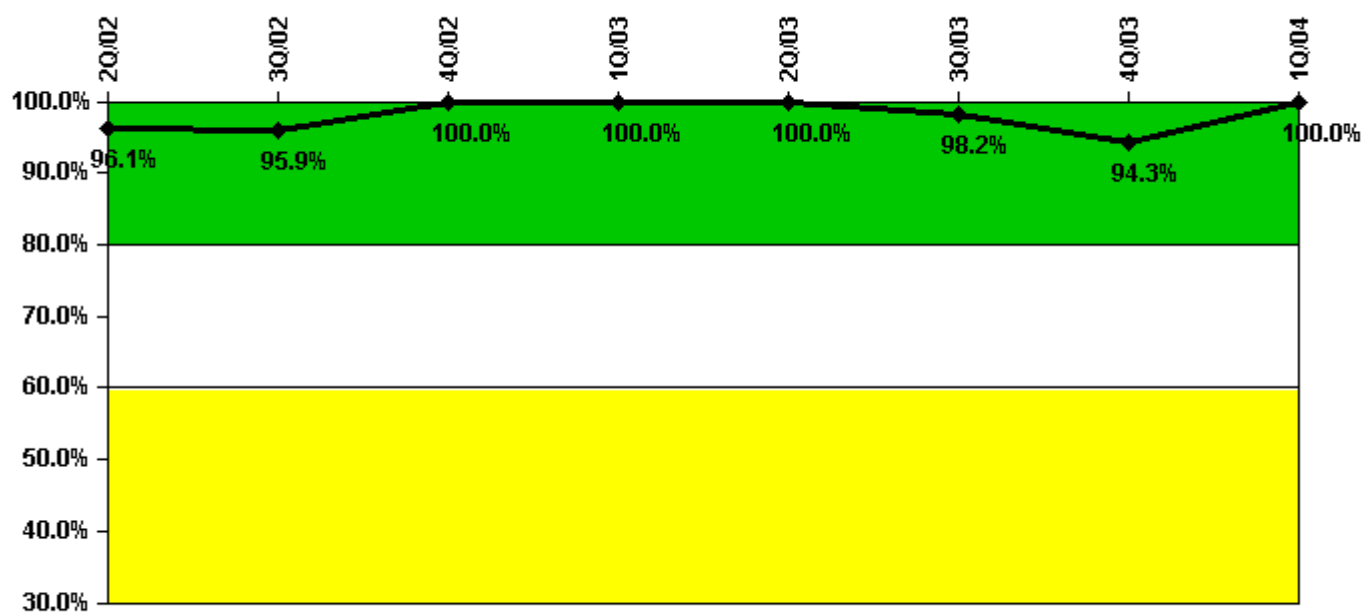
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Successful opportunities	22.0	50.0	2.0	7.0	9.0	21.0	24.0	21.0
Total opportunities	24.0	50.0	2.0	7.0	9.0	21.0	24.0	22.0
Indicator value	94.9%	96.0%	96.4%	96.5%	98.5%	98.4%	98.6%	98.1%

Licensee Comments: none

ERO Drill Participation



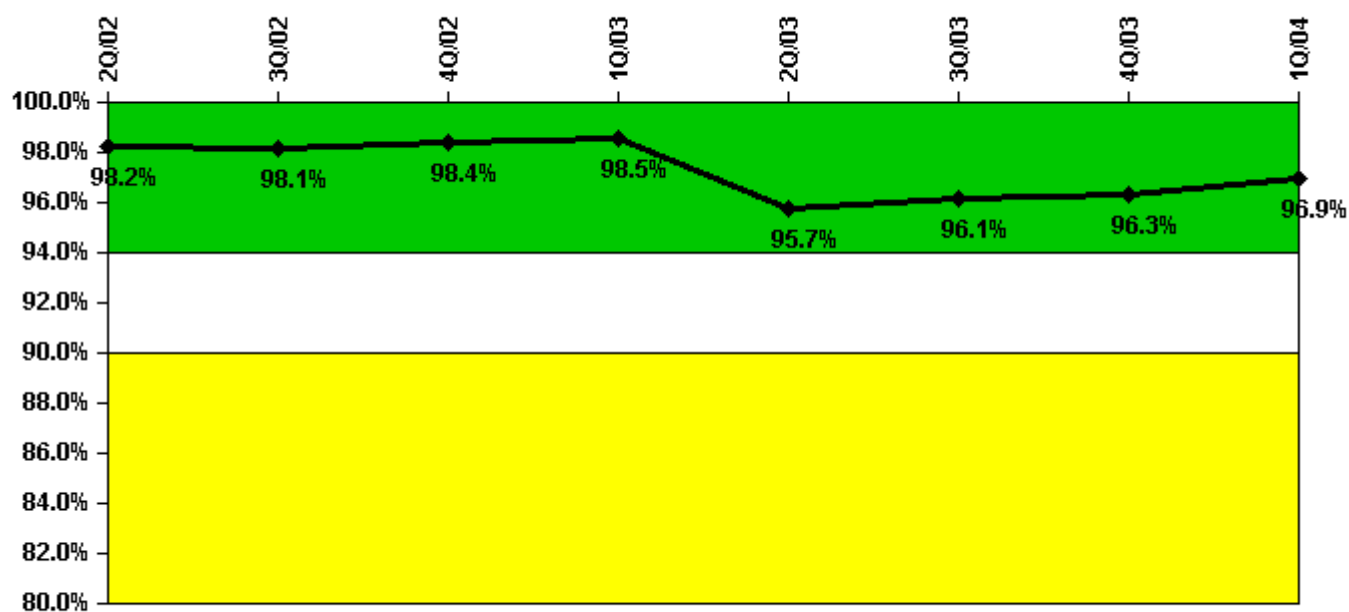
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Participating Key personnel	49.0	47.0	50.0	53.0	53.0	55.0	50.0	54.0
Total Key personnel	51.0	49.0	50.0	53.0	53.0	56.0	53.0	54.0
Indicator value	96.1%	95.9%	100.0%	100.0%	100.0%	98.2%	94.3%	100.0%

Licensee Comments: none

Alert & Notification System



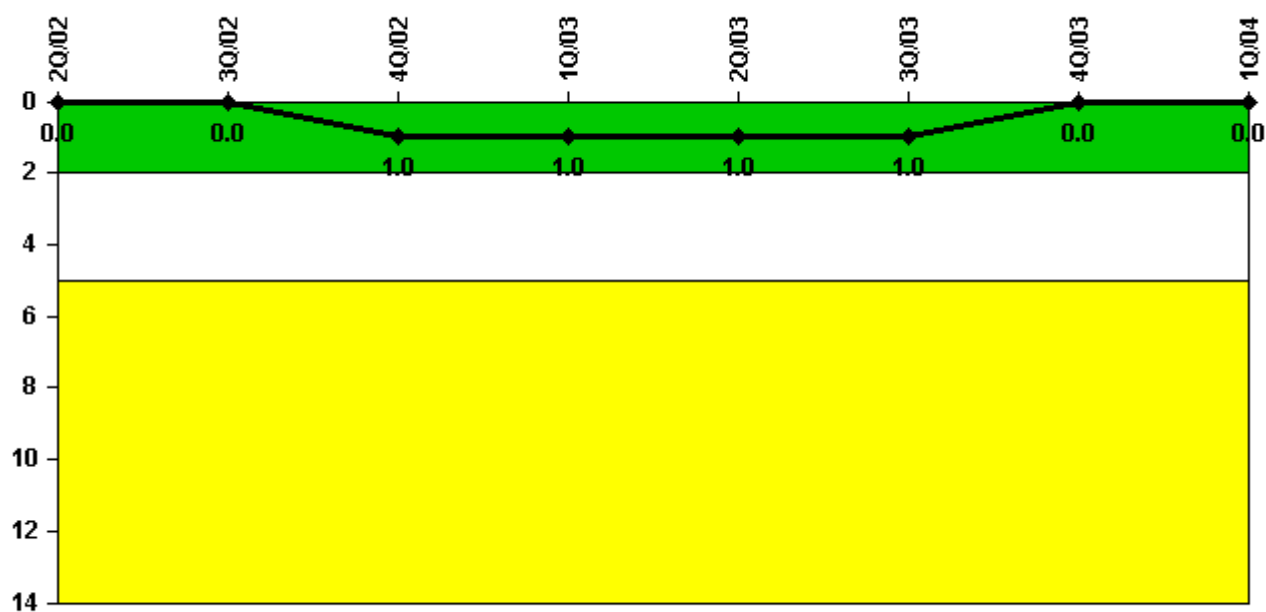
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Successful siren-tests	1111	991	1267	984	1236	1805	1901	2491
Total sirens-tests	1124	1029	1277	988	1386	1857	1920	2510
Indicator value	98.2%	98.1%	98.4%	98.5%	95.7%	96.1%	96.3%	96.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness

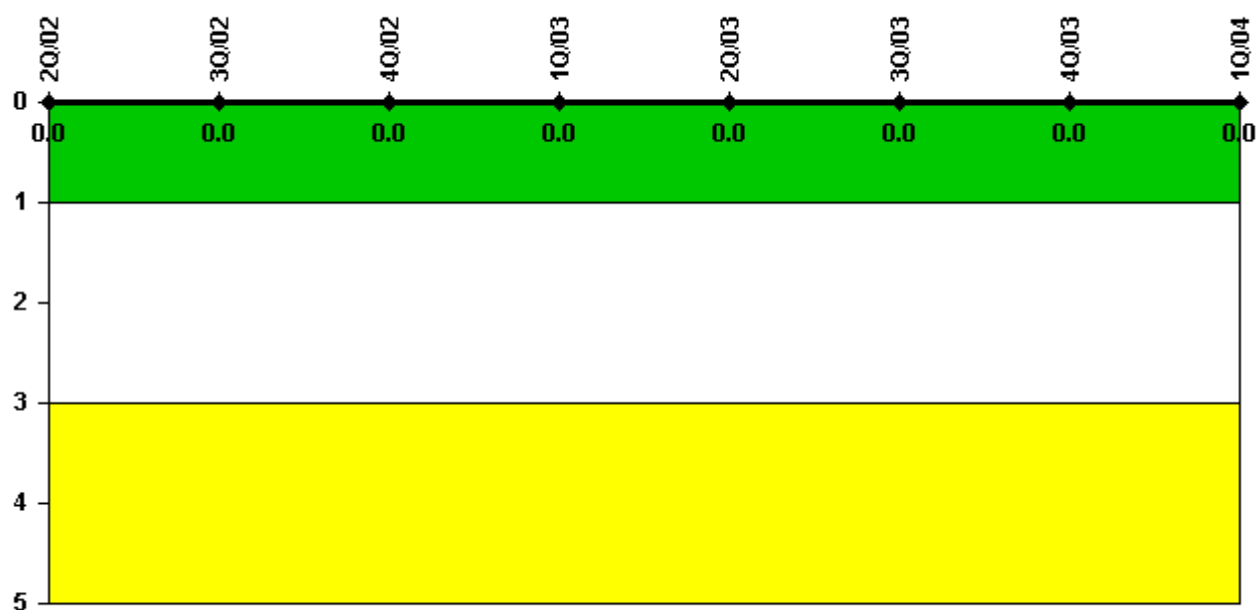


Thresholds: White > 2.0 Yellow > 5.0

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	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

RETS/ODCM Radiological Effluent

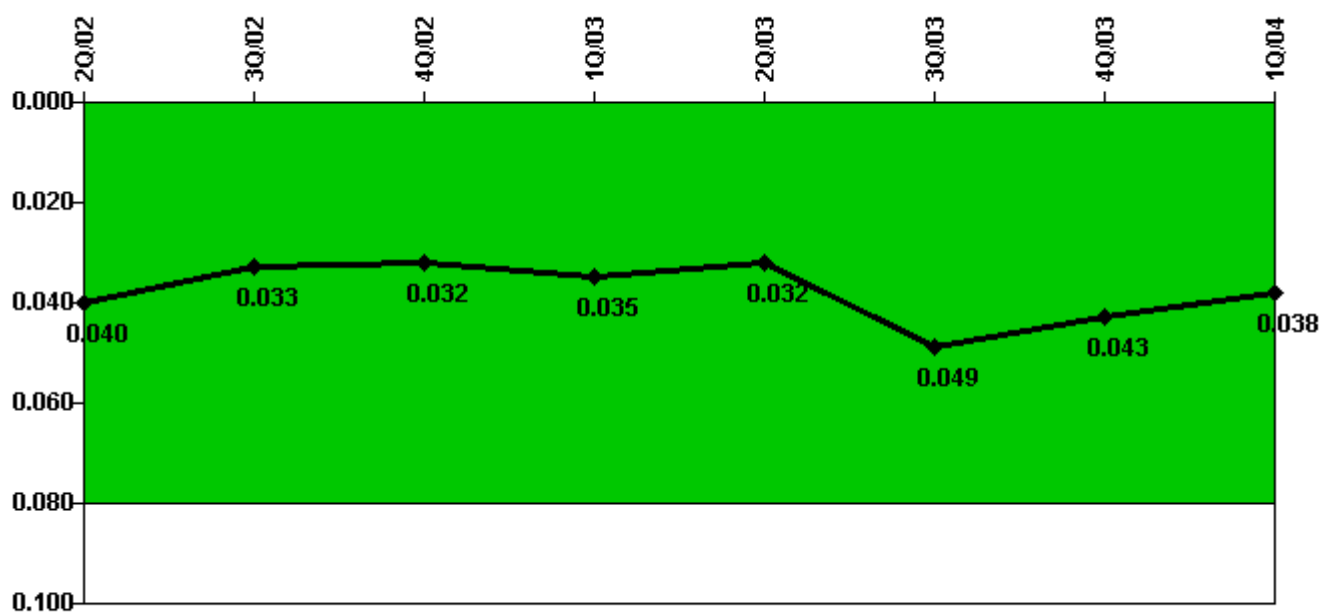
Thresholds: White > 1.0 Yellow > 3.0

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



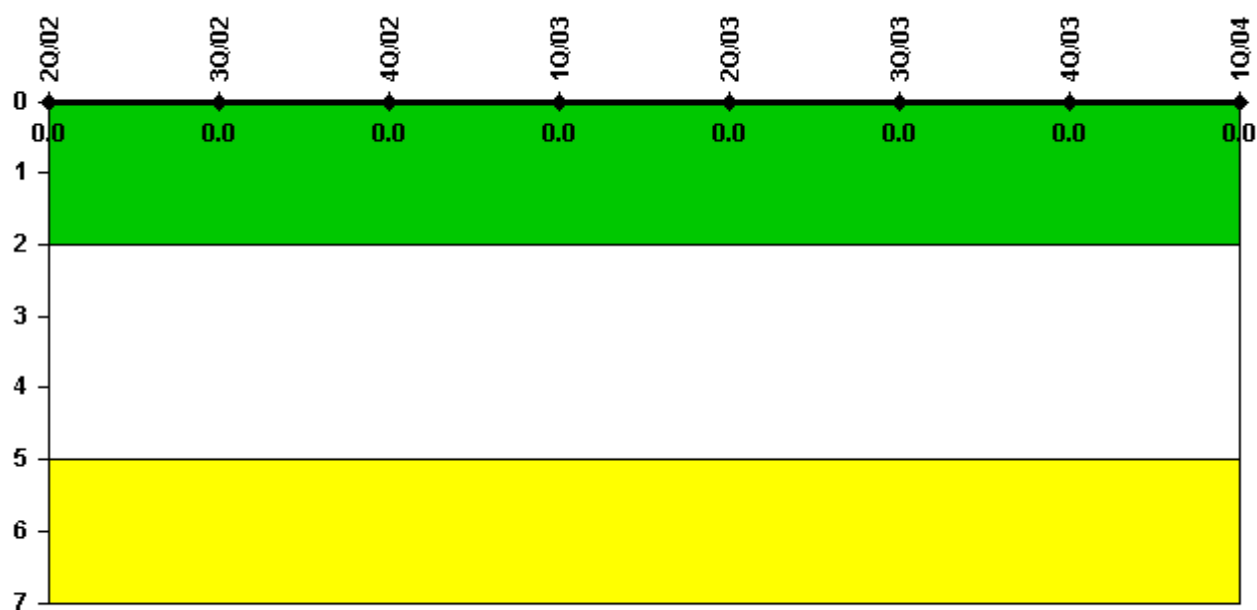
Thresholds: White > 0.080

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	206.95	15.55	82.72	141.91	157.00	109.35	59.40	53.93
CCTV compensatory hours	0	2.4	159.2	16.5	5.8	218.7	82.6	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	0.040	0.033	0.032	0.035	0.032	0.049	0.043	0.038

Licensee Comments: none

Personnel Screening Program



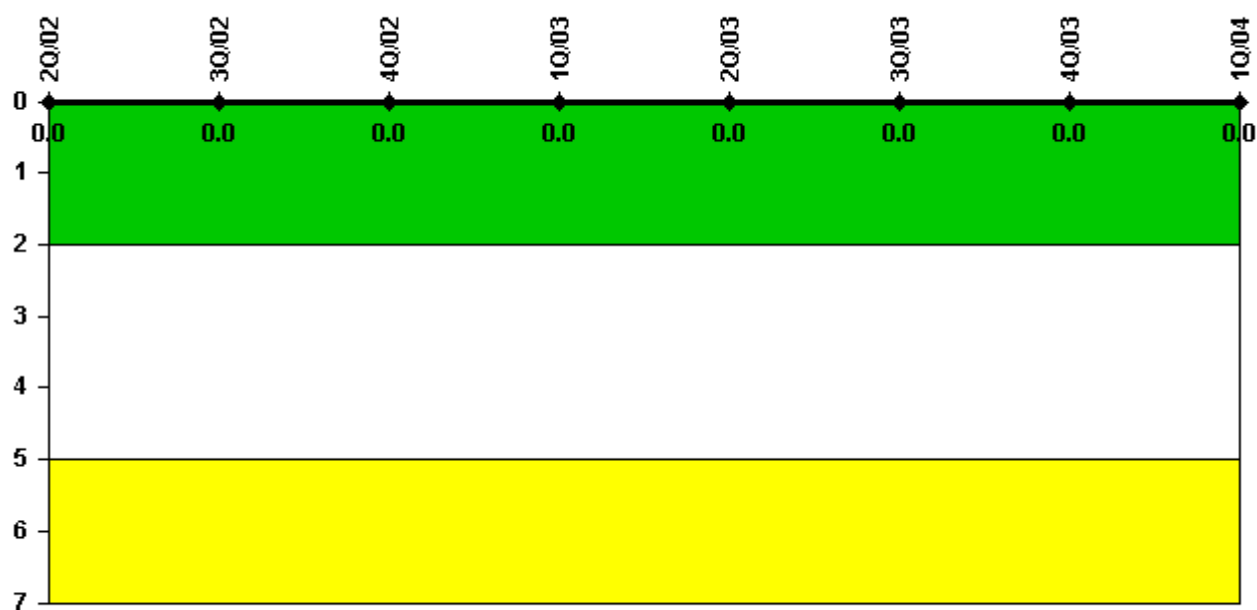
Thresholds: White > 2.0 Yellow > 5.0

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](#)

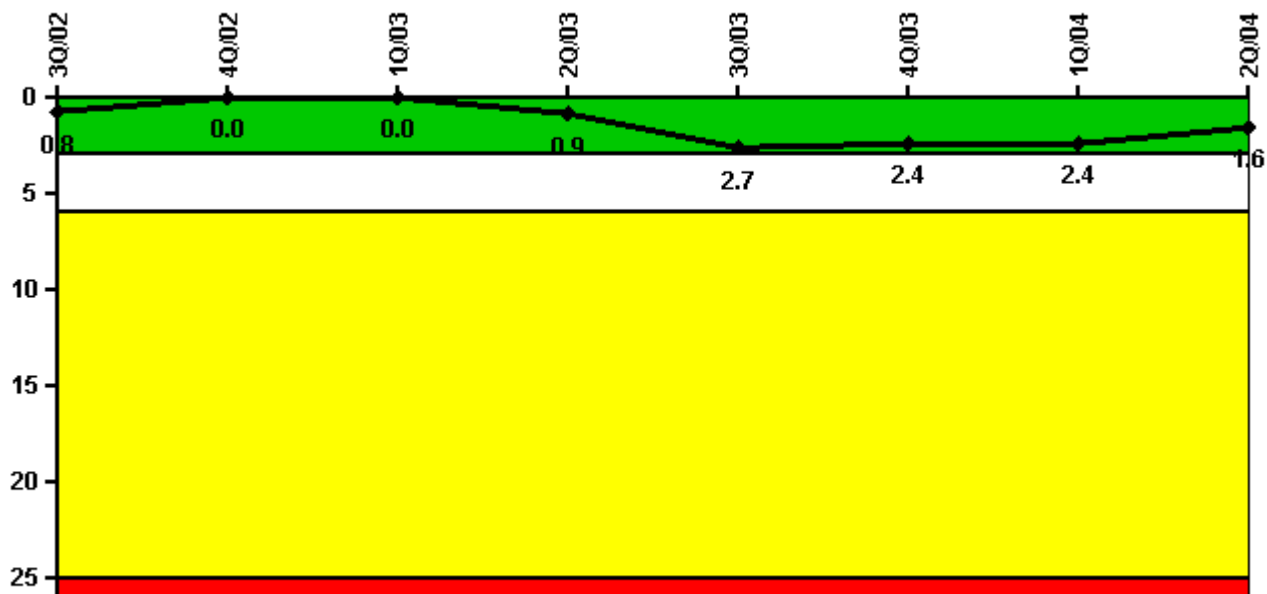
Last Modified: April 22, 2004

Indian Point 2

2Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



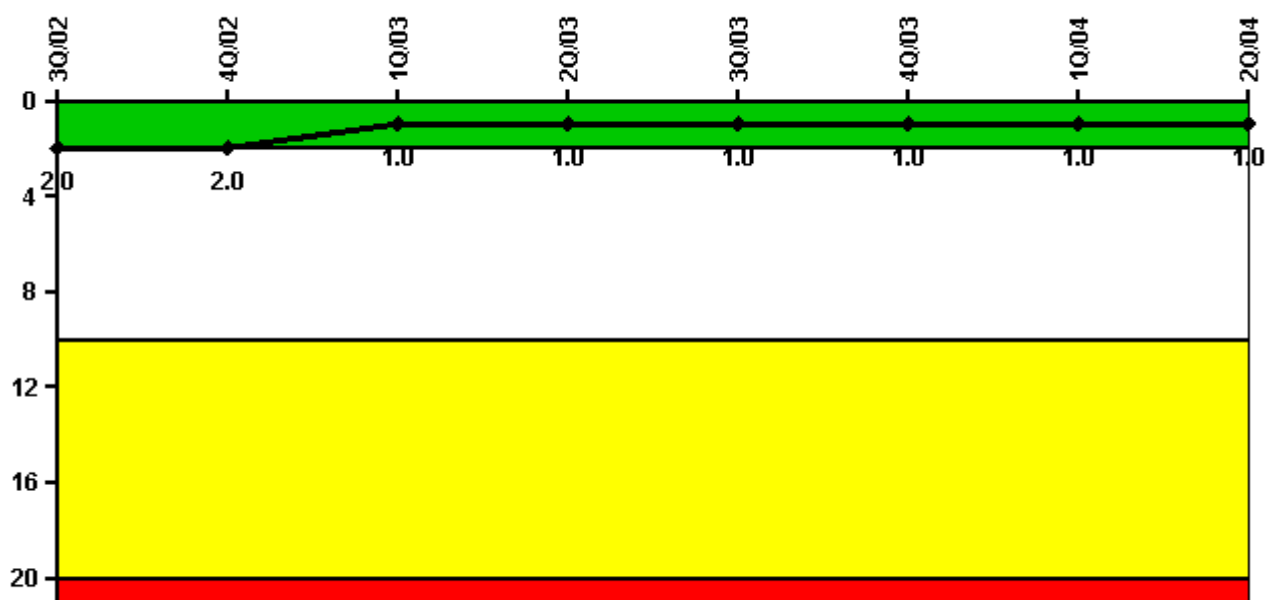
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned scrams	0	0	0	1.0	2.0	0	0	0
Critical hours	2208.0	1449.9	2160.0	2149.7	2146.2	2209.0	2184.0	2183.0
Indicator value	0.8	0	0	0.9	2.7	2.4	2.4	1.6

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



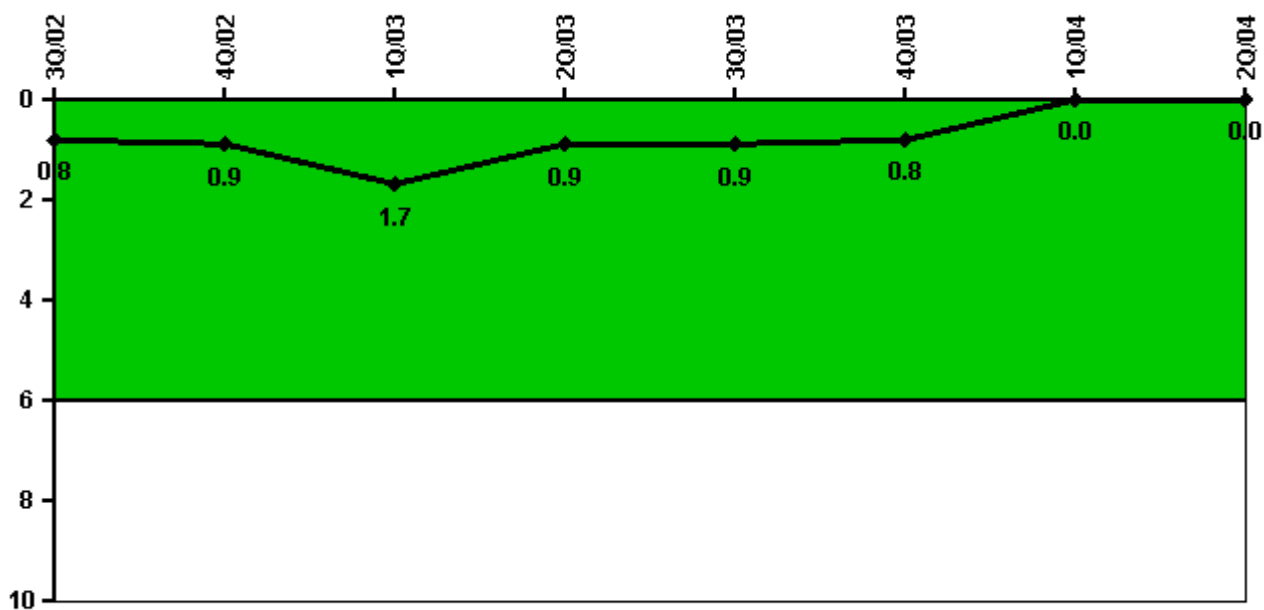
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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



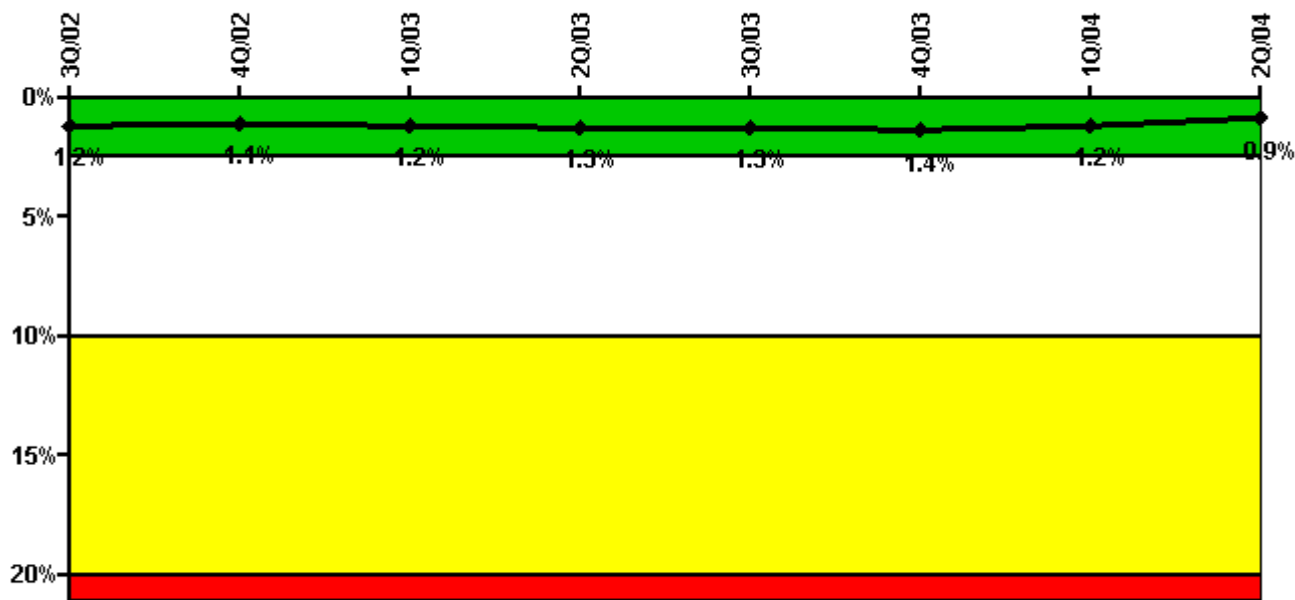
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	2208.0	1449.9	2160.0	2149.7	2146.2	2209.0	2184.0	2183.0
Indicator value	0.8	0.9	1.7	0.9	0.9	0.8	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	4.88	0	68.27	11.35	0	0	30.01	0
Unplanned unavailable hours	0	23.97	0	0	6.57	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	0	0	2.00	21.25	0	25.52	17.73	0
Unplanned unavailable hours	29.45	4.57	0	9.42	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
Train 3								
Planned unavailable hours	0	0.60	0.22	46.45	0	22.90	8.00	14.11
Unplanned unavailable hours	0	28.85	46.16	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
Indicator value	1.2%	1.1%	1.2%	1.3%	1.3%	1.4%	1.2%	0.9%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



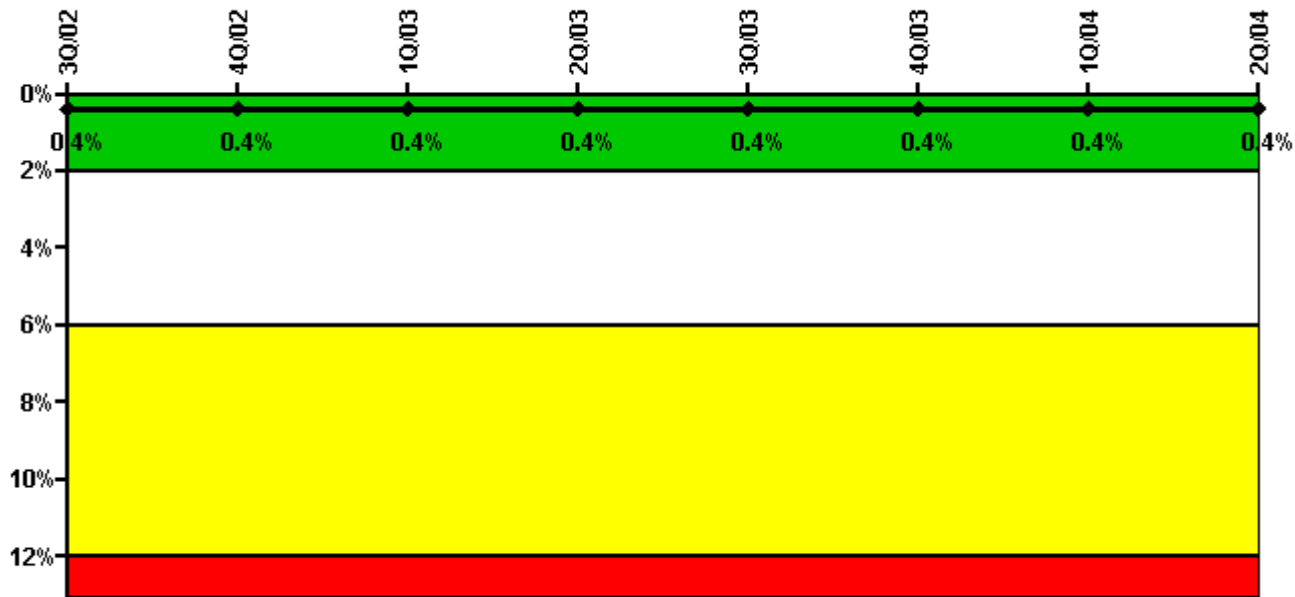
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	0	0	6.00	0	12.00	0	0	16.20
Unplanned unavailable hours	0.25	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1449.87	2160.00	2183.00	2146.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	1.43	0	0.50	4.76	0	3.00	2.57	16.56
Unplanned unavailable hours	0	0	0	0	0	4.50	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1449.87	2160.00	2183.00	2146.00	2209.00	2184.00	2183.00
Train 3								
Planned unavailable hours	0	0	7.20	0	2.82	2.00	8.65	0
Unplanned unavailable hours	0	0	0	0	0	6.00	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1449.87	2160.00	2183.00	2146.00	2209.00	2184.00	2183.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



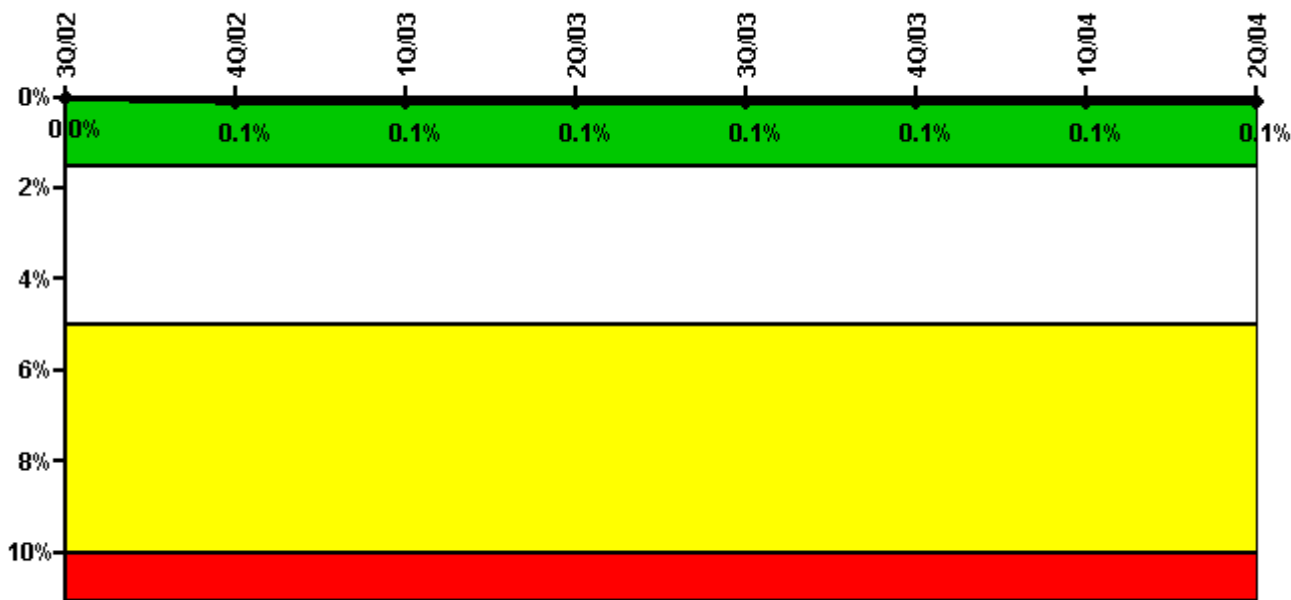
Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	3.56	6.75	18.75	16.38	1.50	13.60	12.00	2.97
Unplanned unavailable hours	0	0	0	0	0.16	0	0	0
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	1449.87	2160.00	2149.70	2146.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	14.32	0.50	19.63	13.25	2.50	4.30	7.11	11.51
Unplanned unavailable hours	0.33	0	0	0	0	7.27	0	0
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	1449.87	2160.00	2149.70	2146.00	2209.00	2184.00	2183.00
Train 3								
Planned unavailable hours	8.08	0.38	4.50	9.43	0	11.60	4.70	9.32
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1449.87	2160.00	2149.70	2146.00	2209.00	2184.00	2183.00
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

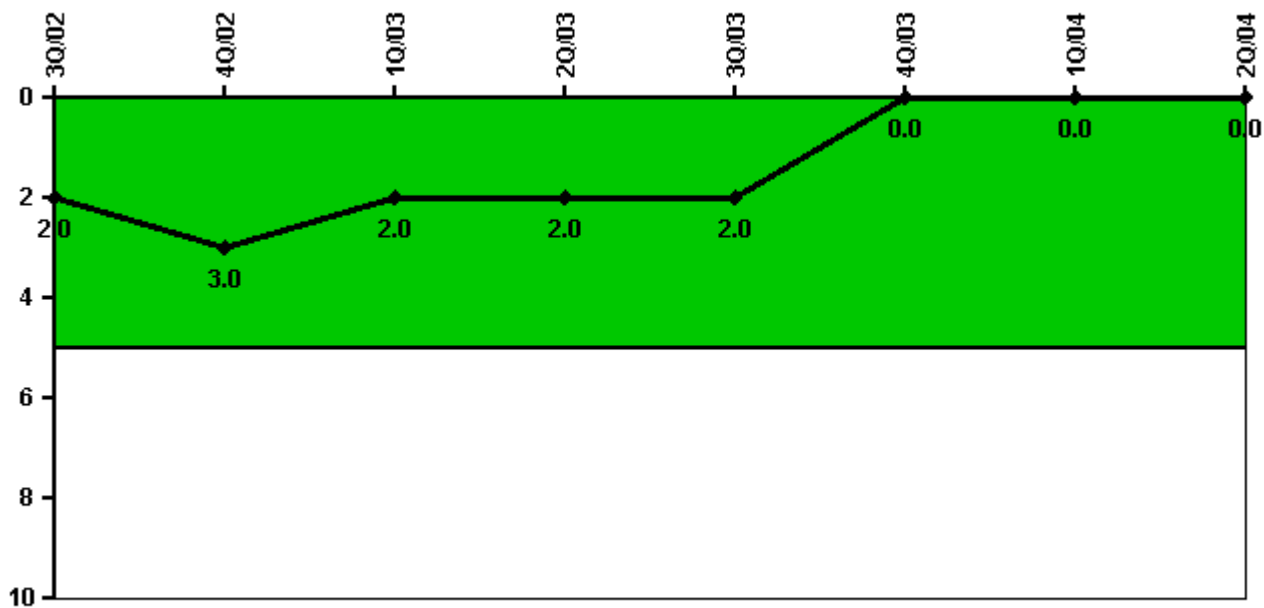


Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	0.32	0	5.50	0	0.33	0	6.60	0.25
Unplanned unavailable hours	0	19.30	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2042.60	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	0.57	0	5.80	0.56	0	0	3.50	0
Unplanned unavailable hours	0	0	24.00	0	0	0	0	0
Fault exposure hours	0	0	3.00	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2042.60	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0.25	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1449.87	2160.00	2183.00	2146.00	2209.00	2184.00	2183.00
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	24.00	0	0	0	0	0
Fault exposure hours	0	0	3.00	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1449.87	2160.00	2183.00	2146.00	2209.00	2184.00	2183.00
Indicator value	0%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%

Safety System Functional Failures (PWR)



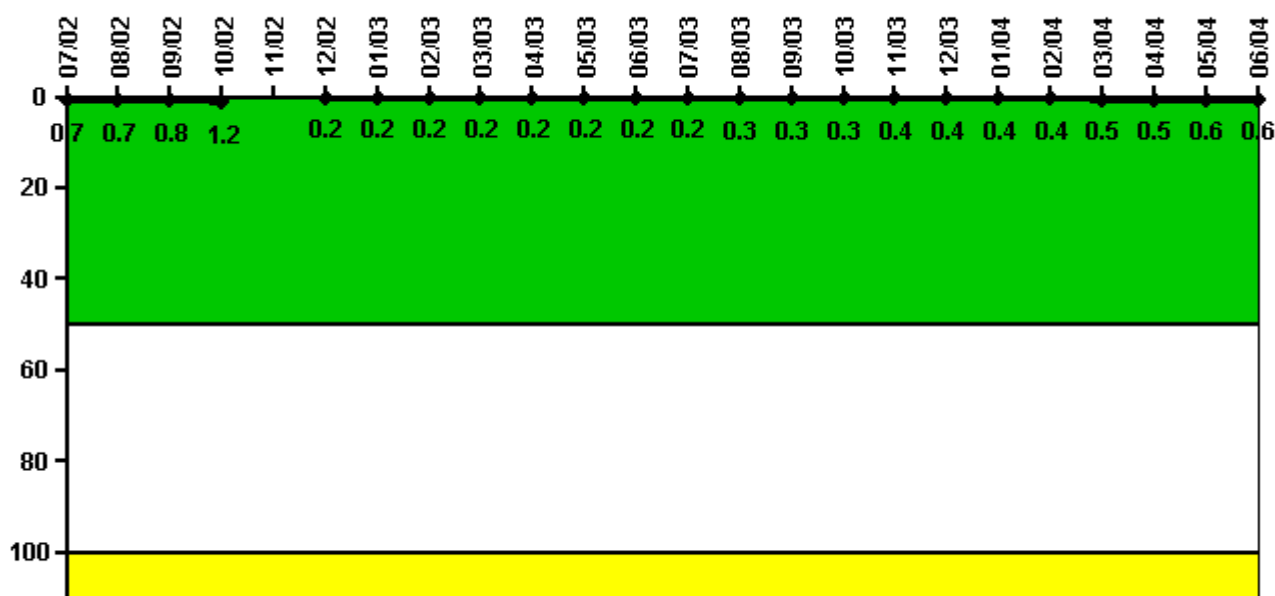
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



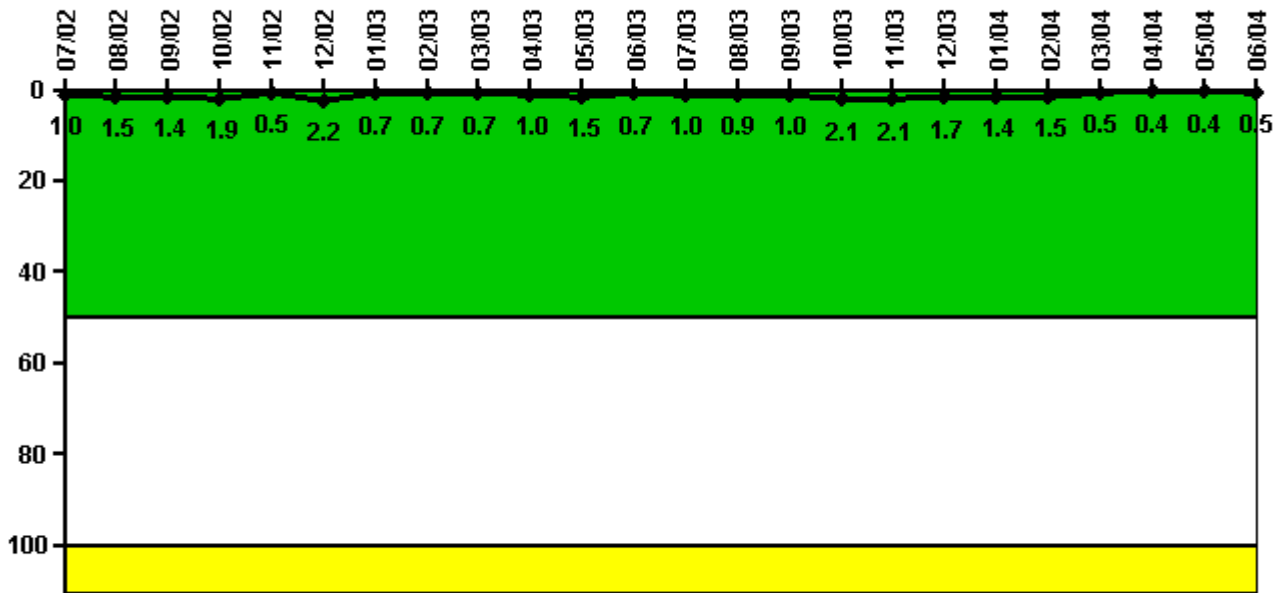
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum activity	0.006600	0.007200	0.007700	0.012000	N/A	0.001600	0.001800	0.001900	0.002100	0.002100	0.002200	0.002300
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.7	0.7	0.8	1.2	N/A	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Reactor Coolant System Activity	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum activity	0.002200	0.002800	0.003100	0.003330	0.004160	0.004110	0.004230	0.004400	0.004620	0.005170	0.005510	0.005810
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.6

Licensee Comments: none

Reactor Coolant System Leakage

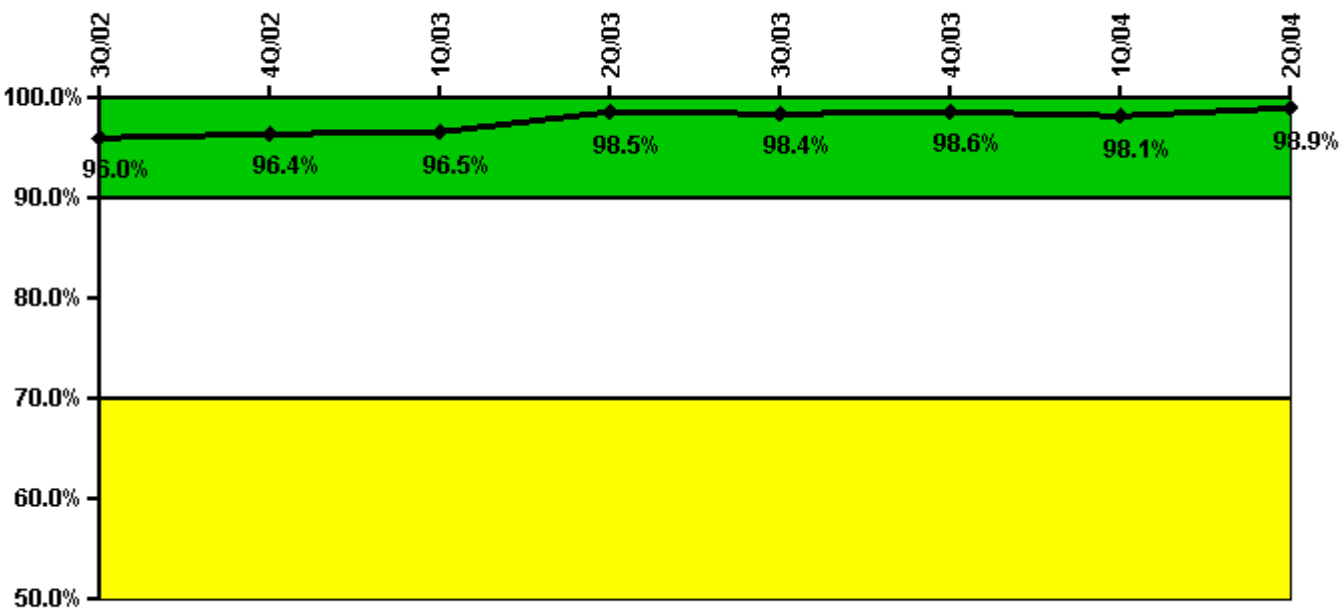


Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.099	0.154	0.143	0.190	0.052	0.224	0.067	0.070	0.070	0.102	0.148	0.075
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.5	1.4	1.9	0.5	2.2	0.7	0.7	0.7	1.0	1.5	0.7
Reactor Coolant System Leakage	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum leakage	0.097	0.093	0.096	0.211	0.211	0.168	0.139	0.147	0.050	0.039	0.038	0.045
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	0.9	1.0	2.1	2.1	1.7	1.4	1.5	0.5	0.4	0.4	0.5

Licensee Comments: none

Drill/Exercise Performance

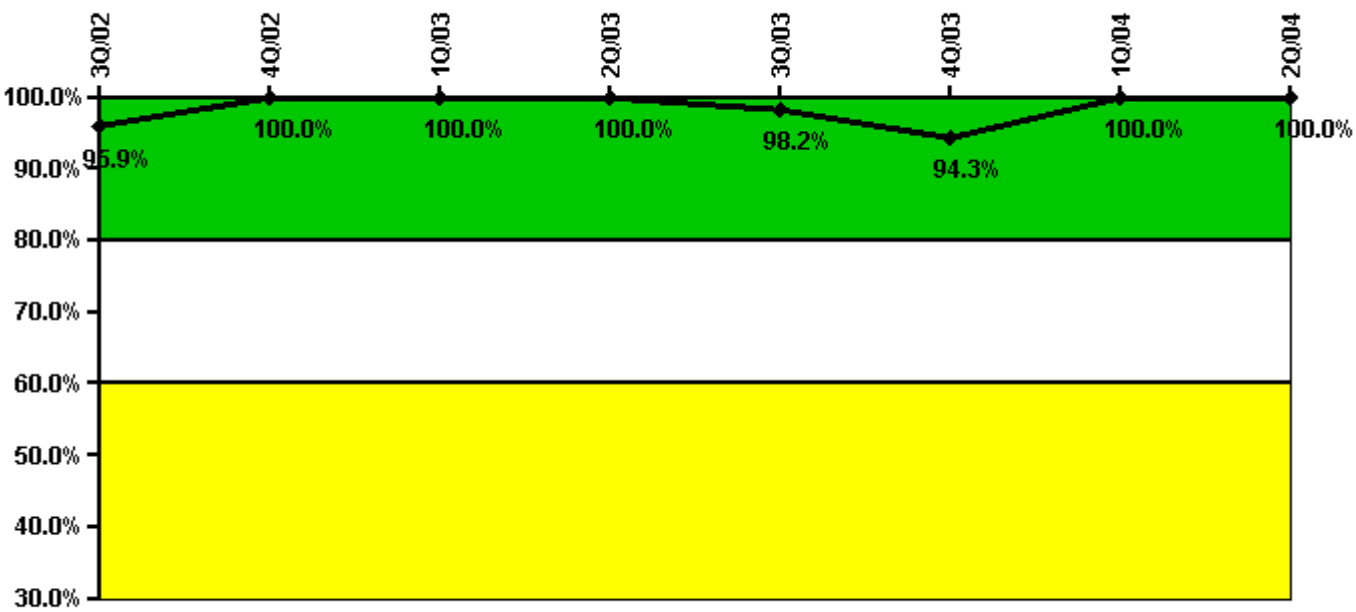
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful opportunities	50.0	2.0	7.0	9.0	21.0	24.0	21.0	46.0
Total opportunities	50.0	2.0	7.0	9.0	21.0	24.0	22.0	47.0
Indicator value	96.0%	96.4%	96.5%	98.5%	98.4%	98.6%	98.1%	98.9%

Licensee Comments: none

ERO Drill Participation



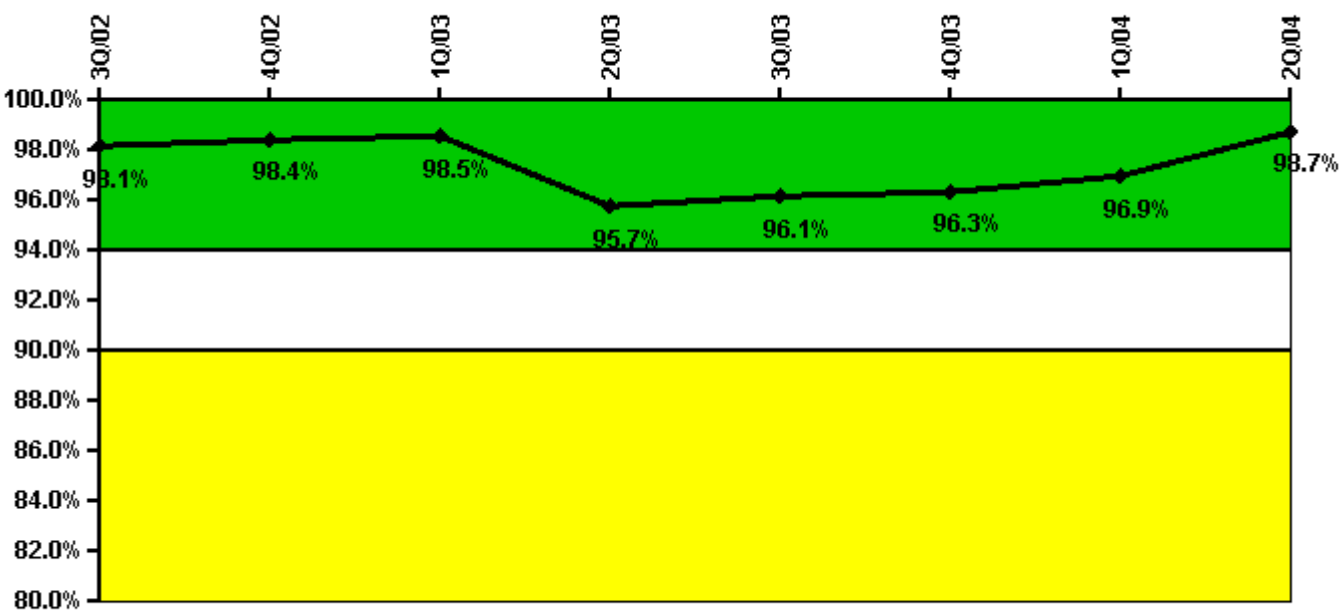
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Participating Key personnel	47.0	50.0	53.0	53.0	55.0	50.0	54.0	59.0
Total Key personnel	49.0	50.0	53.0	53.0	56.0	53.0	54.0	59.0
Indicator value	95.9%	100.0%	100.0%	100.0%	98.2%	94.3%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



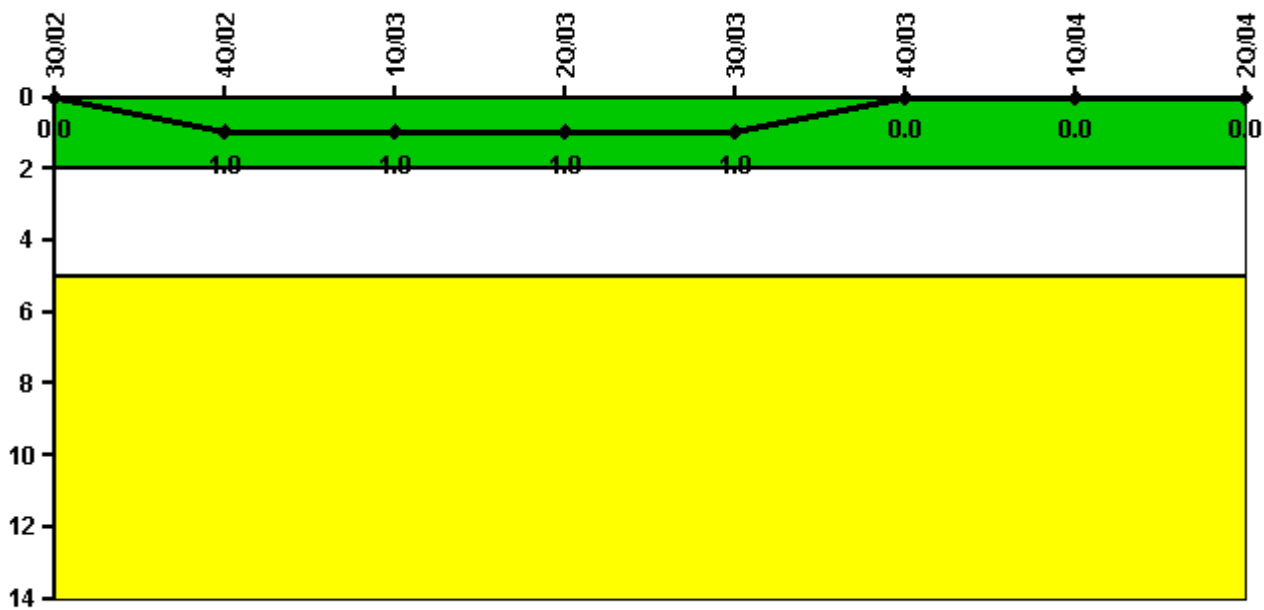
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful siren-tests	991	1267	984	1236	1805	1901	2491	3183
Total sirens-tests	1029	1277	988	1386	1857	1920	2510	3212
Indicator value	98.1%	98.4%	98.5%	95.7%	96.1%	96.3%	96.9%	98.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness

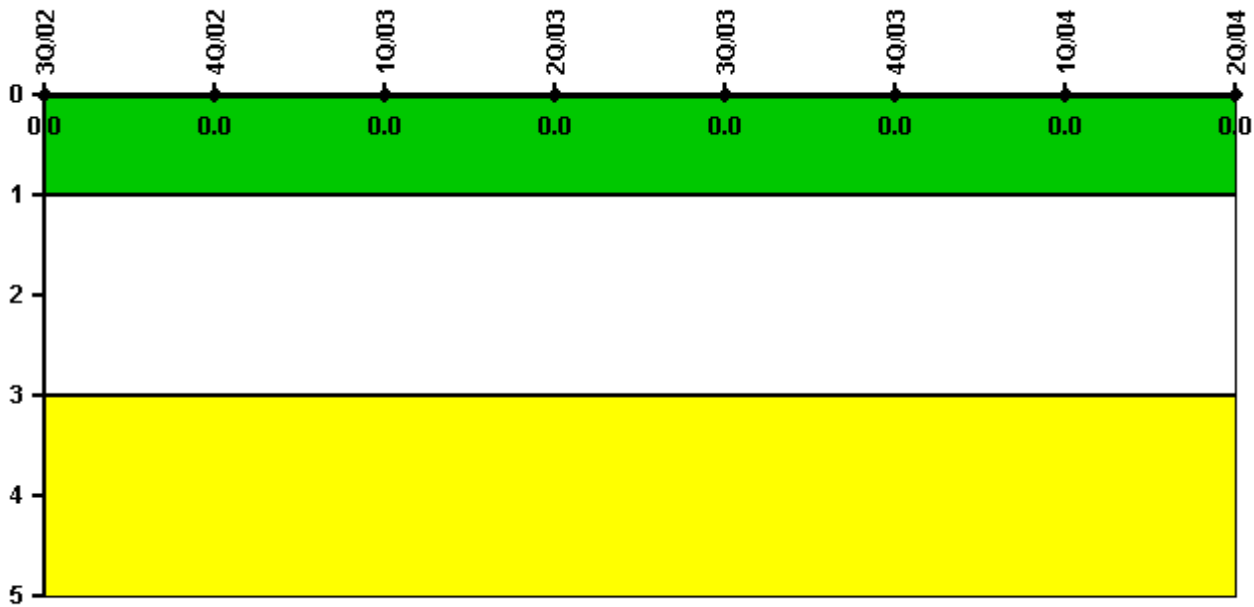


Thresholds: White > 2.0 Yellow > 5.0

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	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

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](#)

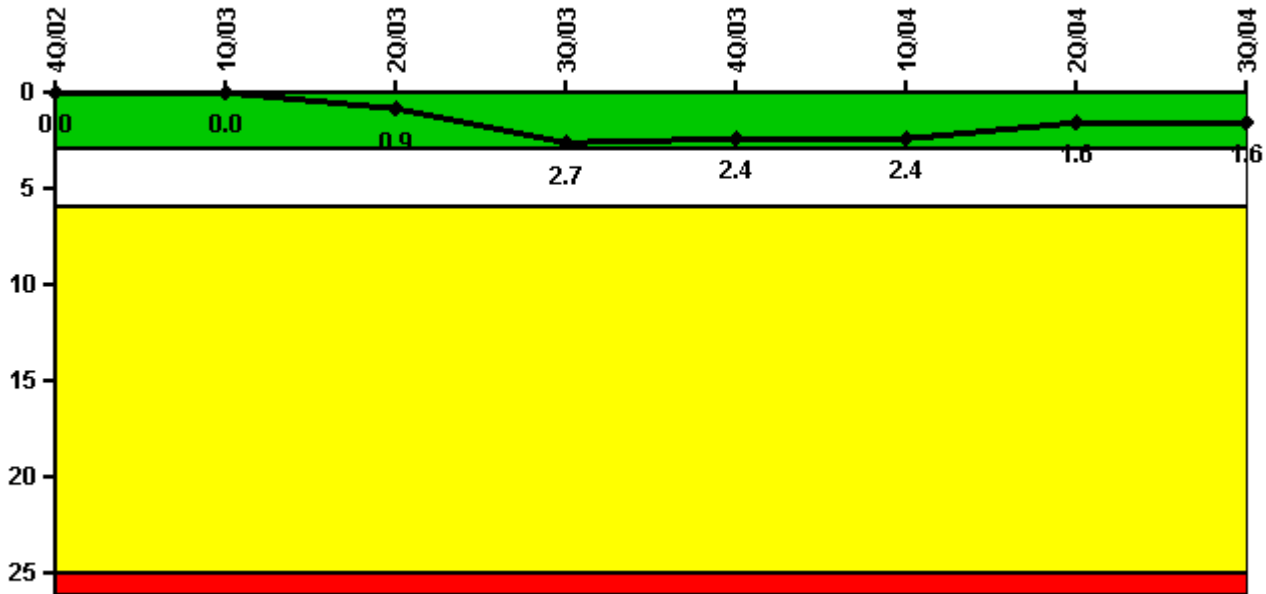
Last Modified: September 8, 2004

Indian Point 2

3Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned scrams	0	0	1.0	2.0	0	0	0	2.0
Critical hours	1449.9	2160.0	2149.7	2146.2	2209.0	2184.0	2183.0	2147.4
Indicator value	0	0	0.9	2.7	2.4	2.4	1.6	1.6

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



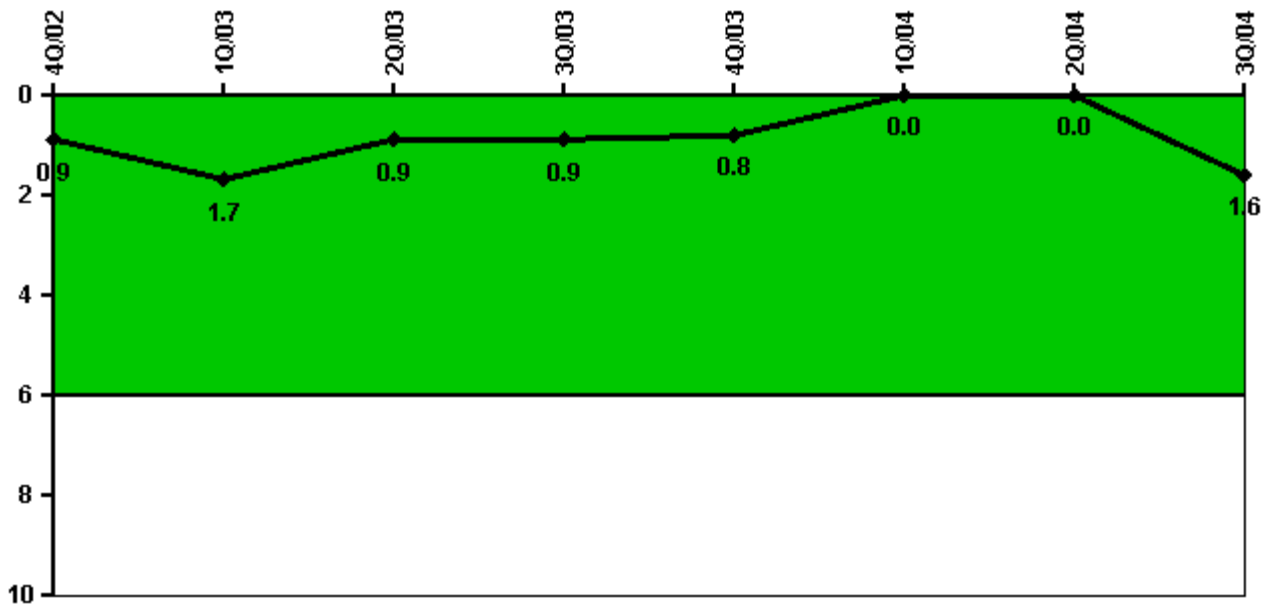
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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



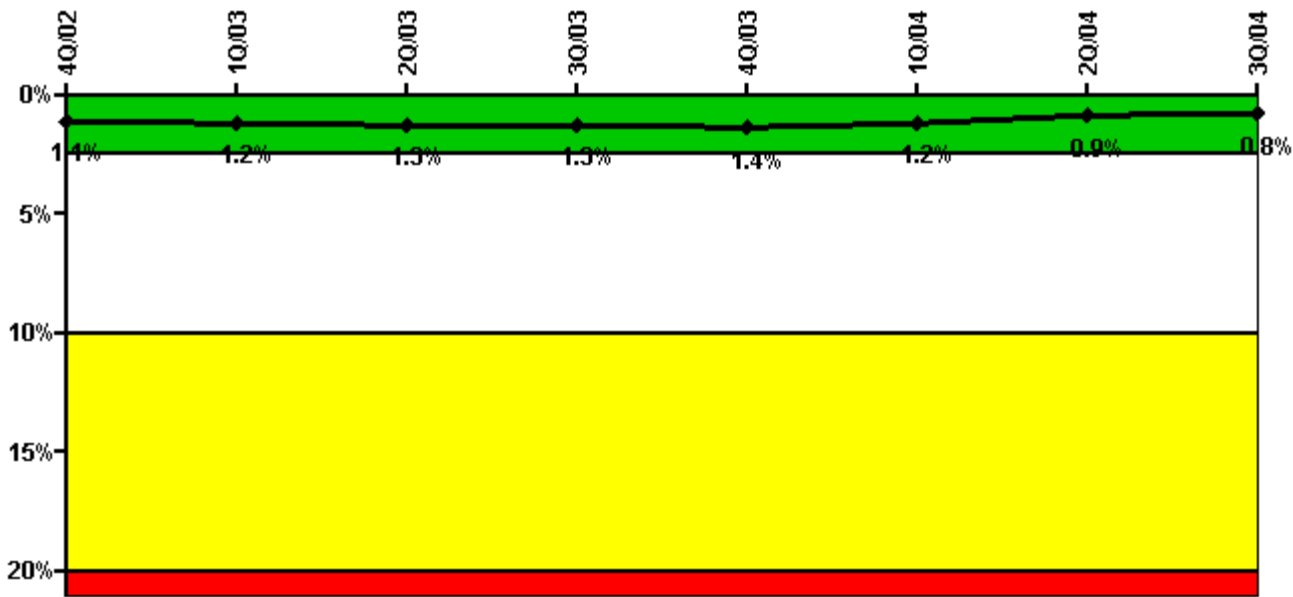
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned power changes	0	1.0	0	0	0	0	0	2.0
Critical hours	1449.9	2160.0	2149.7	2146.2	2209.0	2184.0	2183.0	2147.4
Indicator value	0.9	1.7	0.9	0.9	0.8	0	0	1.6

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



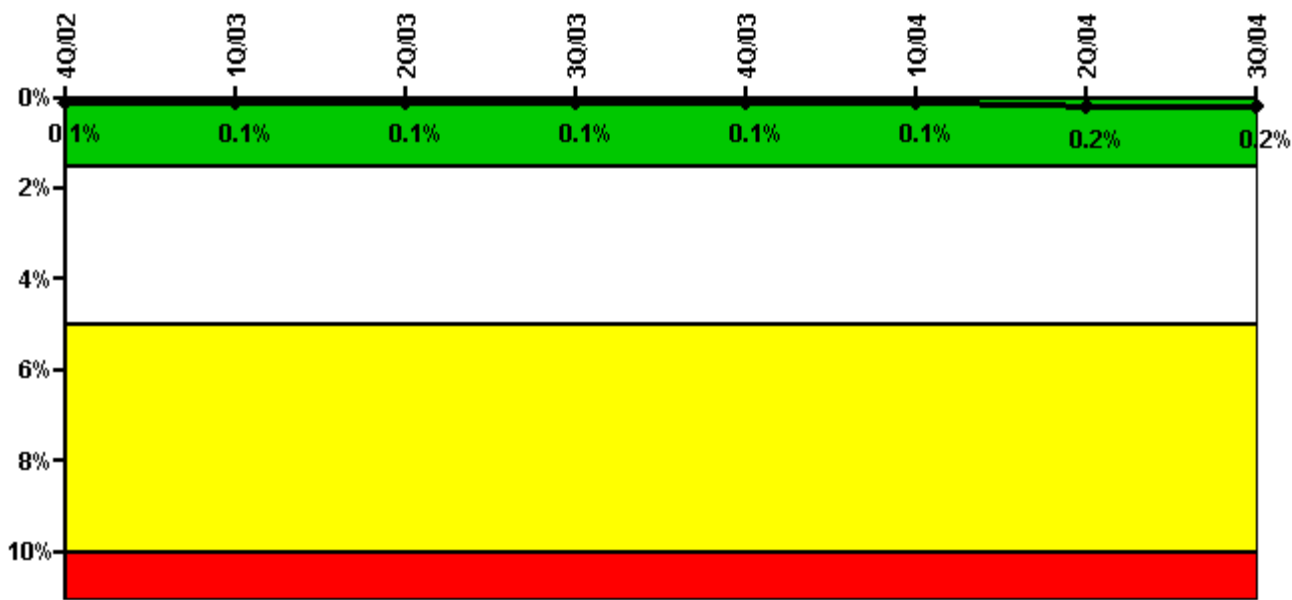
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	0	68.27	11.35	0	0	30.01	0	18.88
Unplanned unavailable hours	23.97	0	0	6.57	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	2.00	21.25	0	25.52	17.73	0	43.69
Unplanned unavailable hours	4.57	0	9.42	0	0	0	0	0
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 3								
Planned unavailable hours	0.60	0.22	46.45	0	22.90	8.00	14.11	0
Unplanned unavailable hours	28.85	46.16	0	0	0	0	0	0
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	1.1%	1.2%	1.3%	1.3%	1.4%	1.2%	0.9%	0.8%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



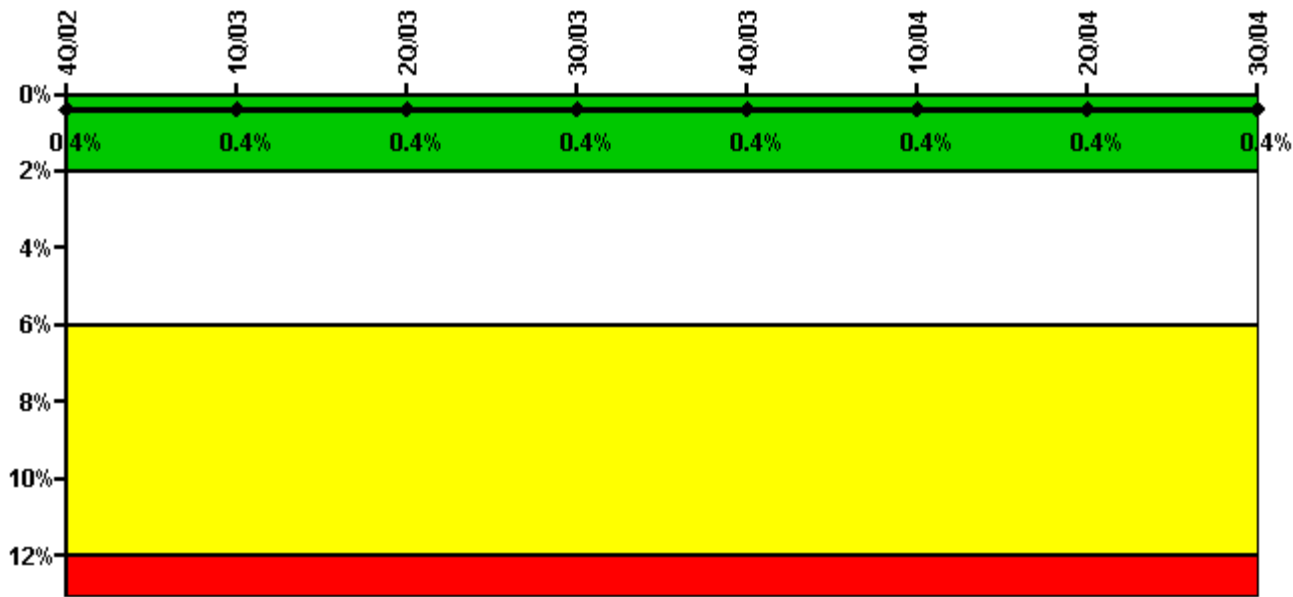
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	0	6.00	0	12.00	0	0	16.20	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1449.87	2160.00	2183.00	2146.00	2209.00	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	0.50	4.76	0	3.00	2.57	16.56	0.25
Unplanned unavailable hours	0	0	0	0	4.50	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1449.87	2160.00	2183.00	2146.00	2209.00	2184.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	7.20	0	2.82	2.00	8.65	0	18.00
Unplanned unavailable hours	0	0	0	0	6.00	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1449.87	2160.00	2183.00	2146.00	2209.00	2184.00	2183.00	2208.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%

Licensee Comments: none

Safety System 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	6.75	18.75	16.38	1.50	13.60	12.00	2.97	6.32
Unplanned unavailable hours	0	0	0	0.16	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1449.87	2160.00	2149.70	2146.00	2209.00	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0.50	19.63	13.25	2.50	4.30	7.11	11.51	23.68
Unplanned unavailable hours	0	0	0	0	7.27	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	1449.87	2160.00	2149.70	2146.00	2209.00	2184.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0.38	4.50	9.43	0	11.60	4.70	9.32	0.55
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	1449.87	2160.00	2149.70	2146.00	2209.00	2184.00	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

Number of Questions per Item	Percentage of Items
0Q/02	1%
1Q/03	0.1%
2Q/03	0.1%
3Q/03	0.1%
4Q/03	0.1%
1Q/04	0.1%
2Q/04	0.1%
3Q/04	0.1%

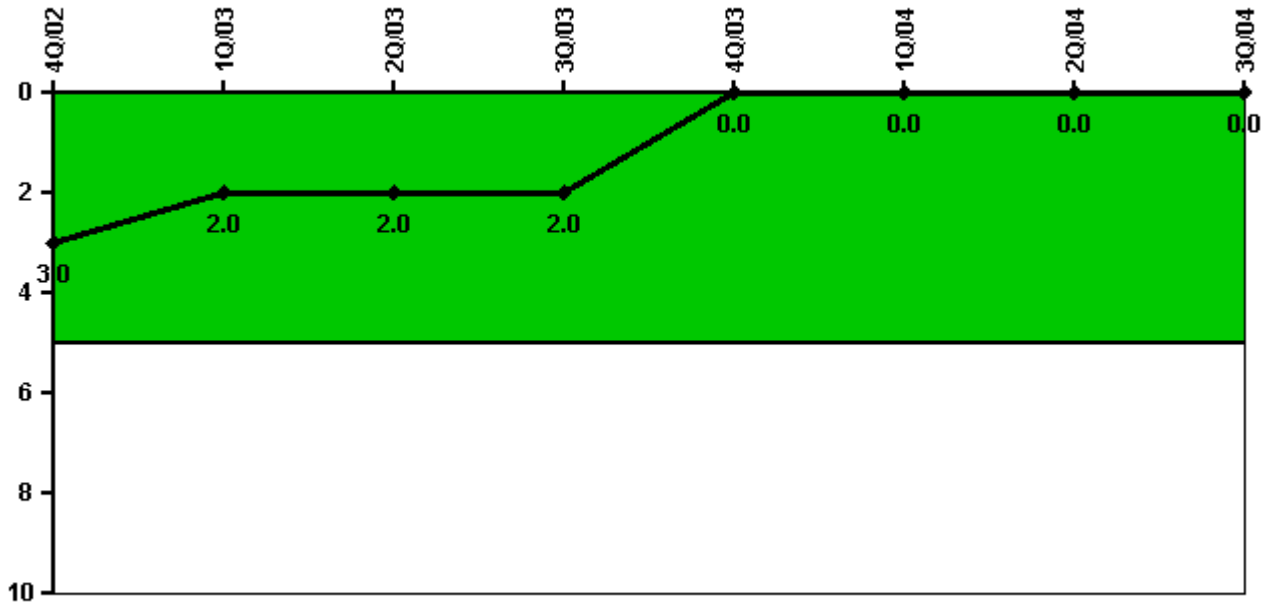
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

[illegible]

Licensee Comments: none

Safety System Functional Failures (PWR)



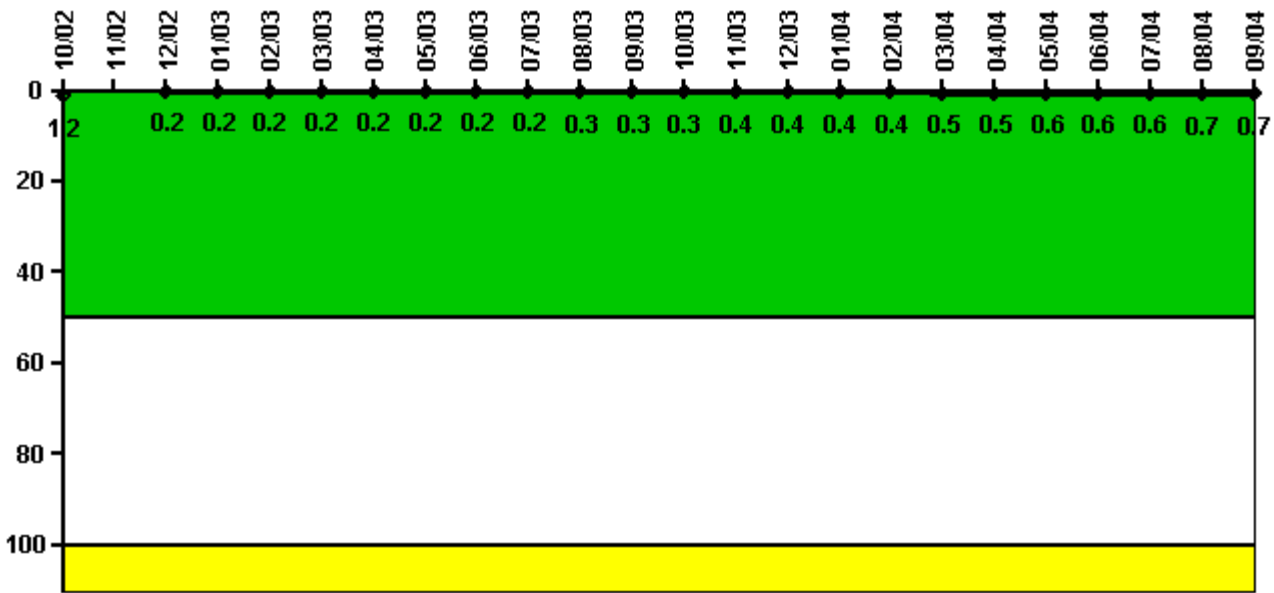
Thresholds: White > 5.0

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

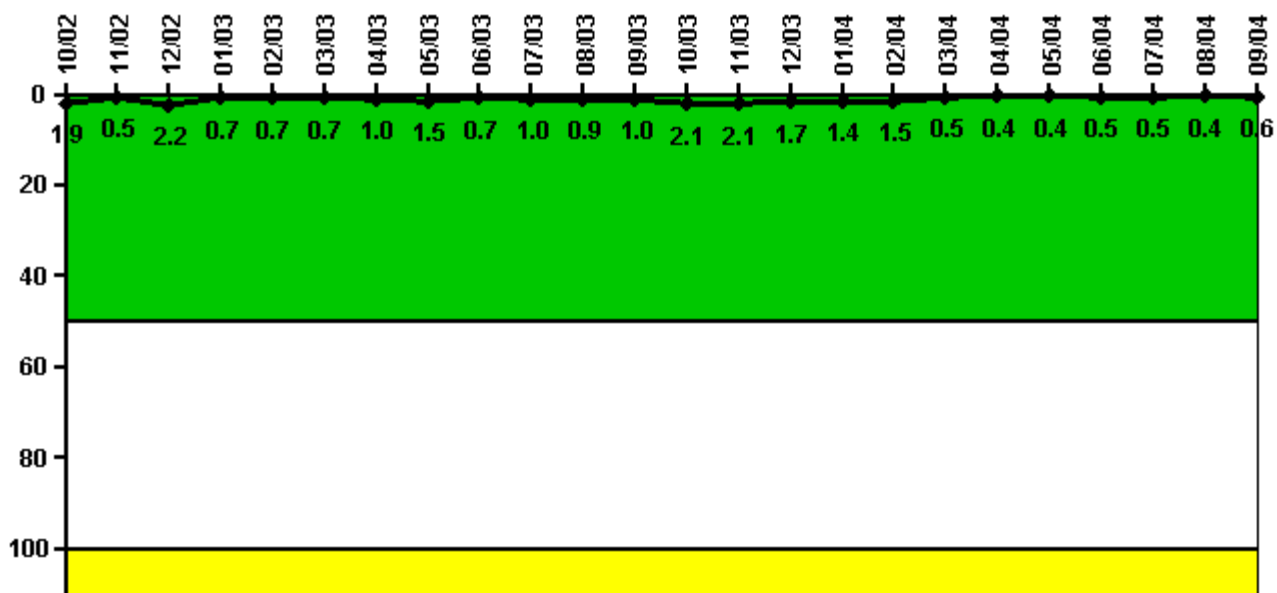
Notes

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	0.012000	N/A	0.001600	0.001800	0.001900	0.002100	0.002100	0.002200	0.002300	0.002200	0.002800	0.003100
Technical specification limit	1.0	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	N/A	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3

Reactor Coolant System Activity	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum activity	0.003330	0.004160	0.004110	0.004230	0.004400	0.004620	0.005170	0.005510	0.005810	0.006250	0.006690	0.006880
Technical specification limit	1.0	1.0	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	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.7

Licensee Comments: none

Reactor Coolant System Leakage



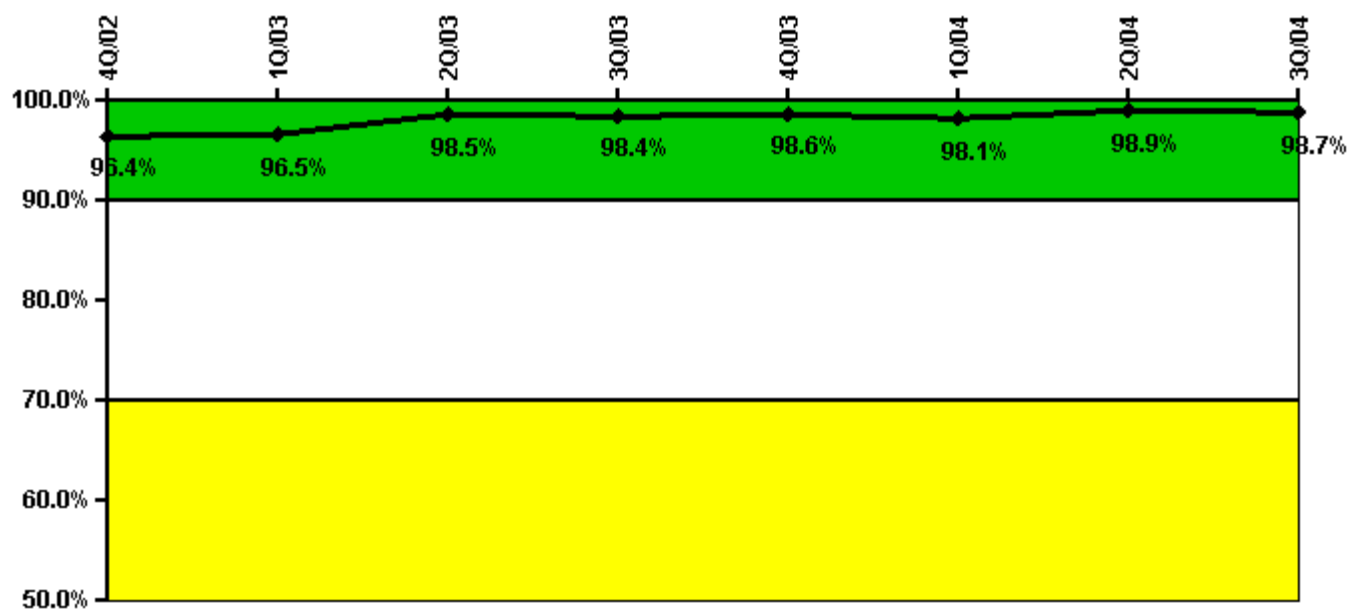
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.190	0.052	0.224	0.067	0.070	0.070	0.102	0.148	0.075	0.097	0.093	0.096
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.9	0.5	2.2	0.7	0.7	0.7	1.0	1.5	0.7	1.0	0.9	1.0
Reactor Coolant System Leakage	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	0.211	0.211	0.168	0.139	0.147	0.050	0.039	0.038	0.045	0.045	0.037	0.060
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.1	2.1	1.7	1.4	1.5	0.5	0.4	0.4	0.5	0.5	0.4	0.6

Licensee Comments: none

Drill/Exercise Performance



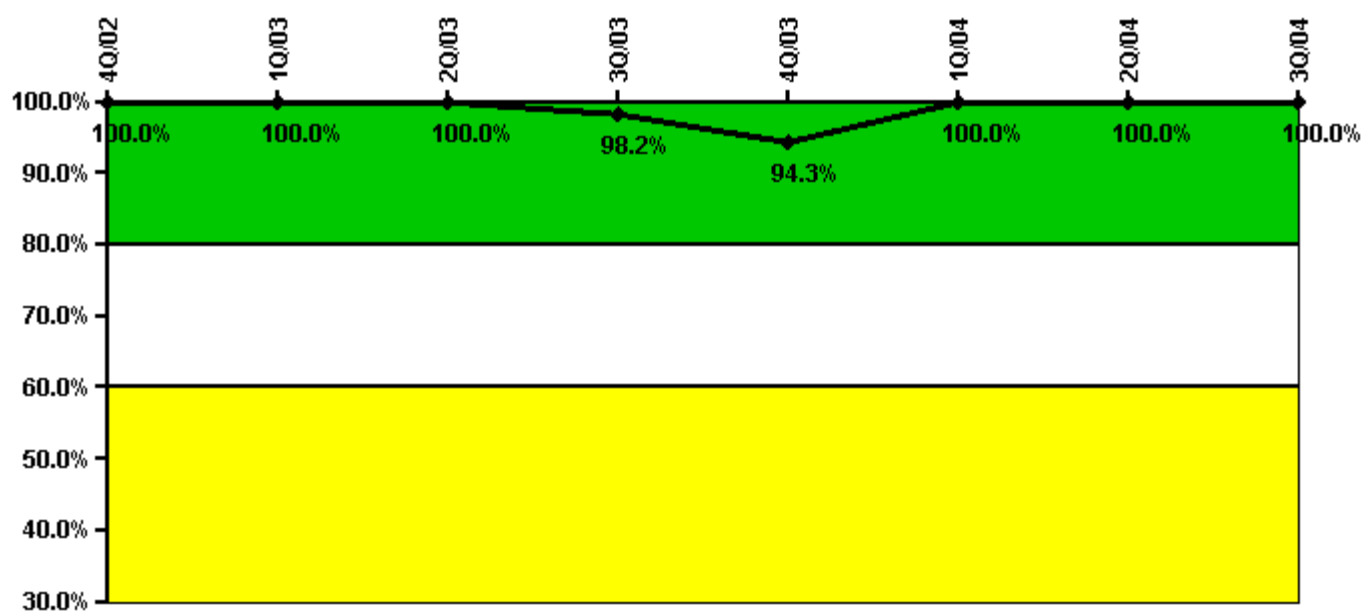
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful opportunities	2.0	7.0	9.0	21.0	24.0	21.0	46.0	19.0
Total opportunities	2.0	7.0	9.0	21.0	24.0	22.0	47.0	19.0
Indicator value	96.4%	96.5%	98.5%	98.4%	98.6%	98.1%	98.9%	98.7%

Licensee Comments: none

ERO Drill Participation



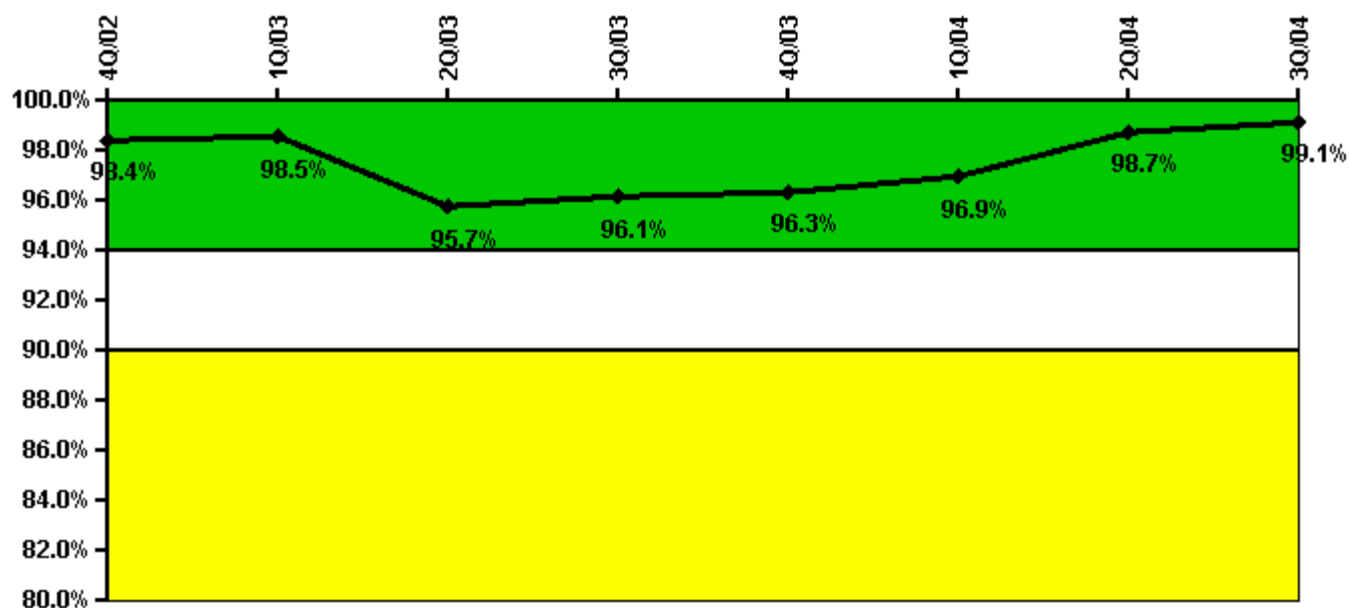
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Participating Key personnel	50.0	53.0	53.0	55.0	50.0	54.0	59.0	59.0
Total Key personnel	50.0	53.0	53.0	56.0	53.0	54.0	59.0	59.0
Indicator value	100.0%	100.0%	100.0%	98.2%	94.3%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



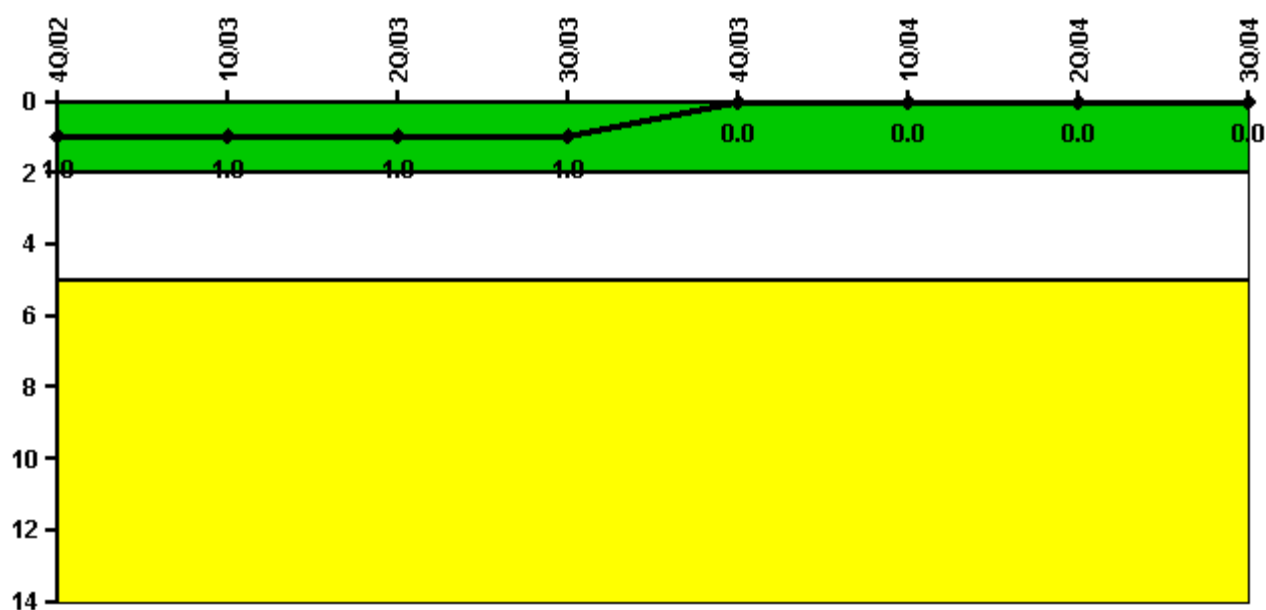
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful siren-tests	1267	984	1236	1805	1901	2491	3183	2299
Total sirens-tests	1277	988	1386	1857	1920	2510	3212	2321
Indicator value	98.4%	98.5%	95.7%	96.1%	96.3%	96.9%	98.7%	99.1%

Licensee Comments: none

Occupational Exposure Control Effectiveness



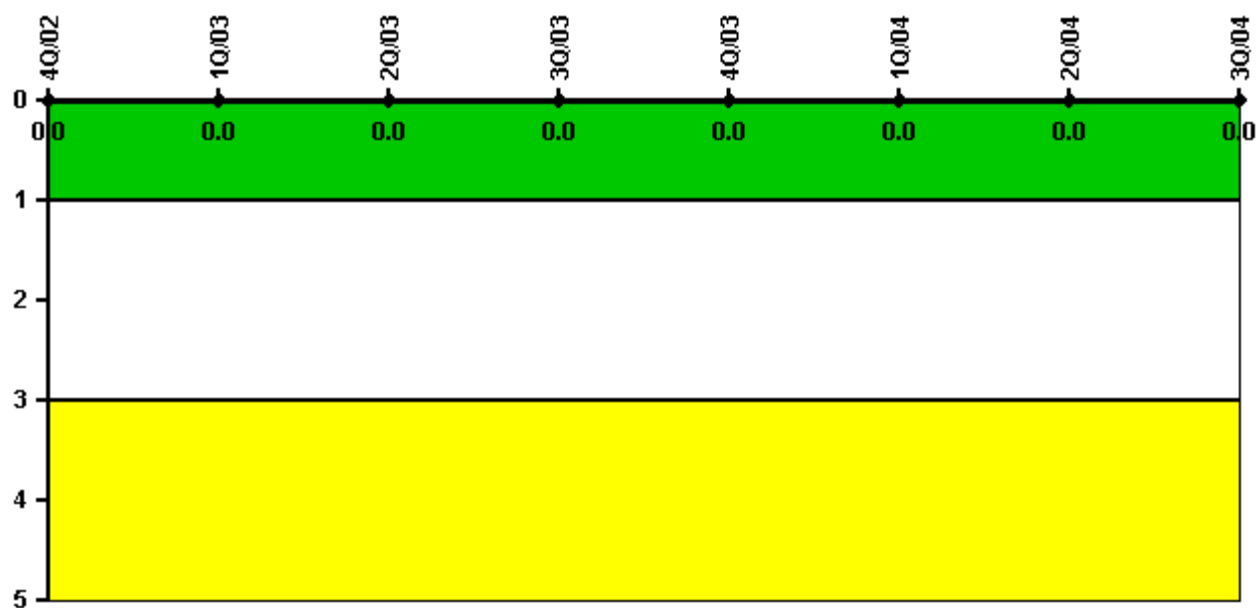
Thresholds: White > 2.0 Yellow > 5.0

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	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	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](#)

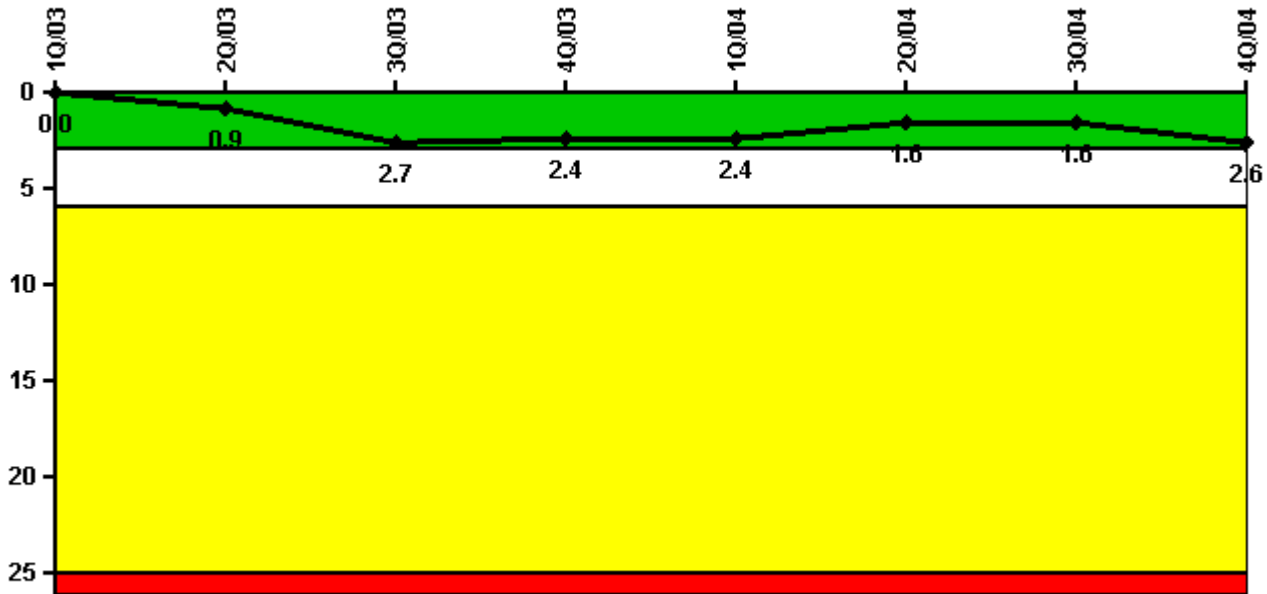
Last Modified: October 25, 2004

Indian Point 2

4Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



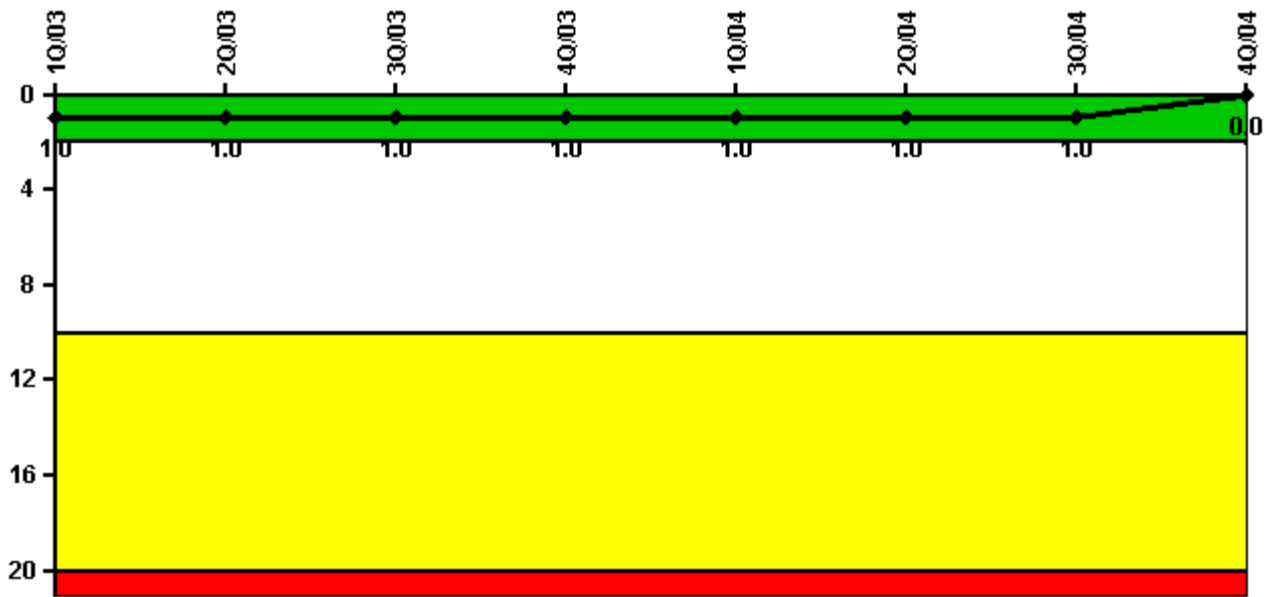
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned scrams	0	1.0	2.0	0	0	0	2.0	1.0
Critical hours	2160.0	2149.7	2146.2	2209.0	2184.0	2183.0	2147.4	1480.2
Indicator value	0	0.9	2.7	2.4	2.4	1.6	1.6	2.6

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



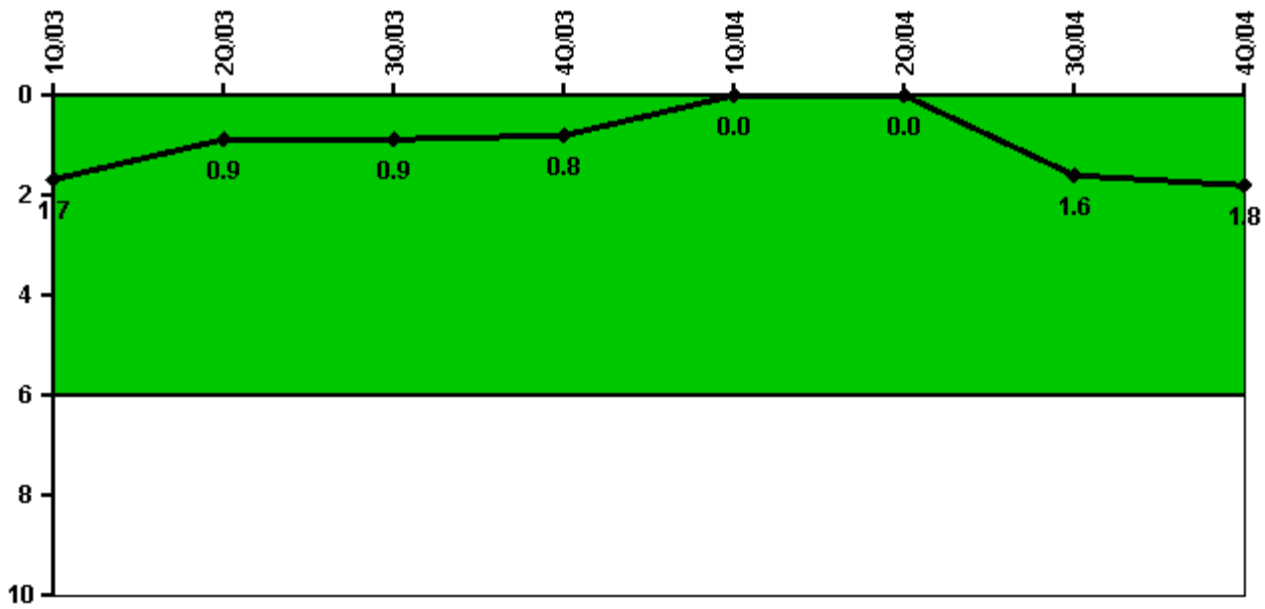
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	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



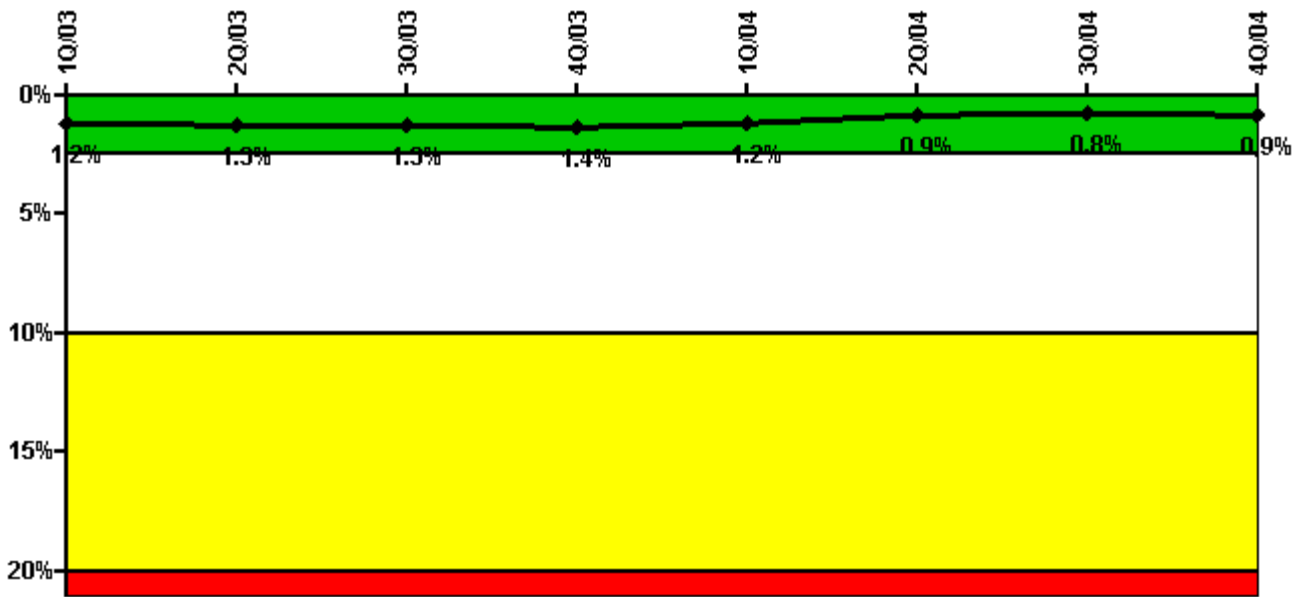
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned power changes	1.0	0	0	0	0	0	2.0	0
Critical hours	2160.0	2149.7	2146.2	2209.0	2184.0	2183.0	2147.4	1480.2
Indicator value	1.7	0.9	0.9	0.8	0	0	1.6	1.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



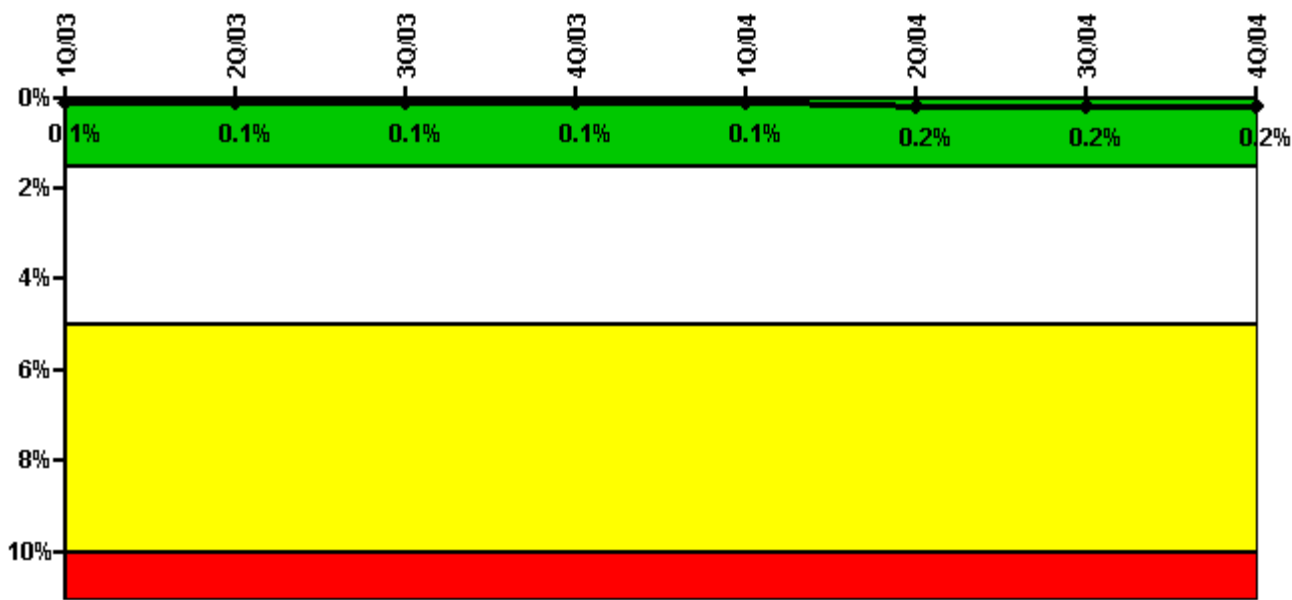
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	68.27	11.35	0	0	30.01	0	18.88	25.83
Unplanned unavailable hours	0	0	6.57	0	0	0	0	0
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	2.00	21.25	0	25.52	17.73	0	43.69	22.97
Unplanned unavailable hours	0	9.42	0	0	0	0	0	0
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 3								
Planned unavailable hours	0.22	46.45	0	22.90	8.00	14.11	0	45.00
Unplanned unavailable hours	46.16	0	0	0	0	0	0	27.86
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
Indicator value	1.2%	1.3%	1.3%	1.4%	1.2%	0.9%	0.8%	0.9%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



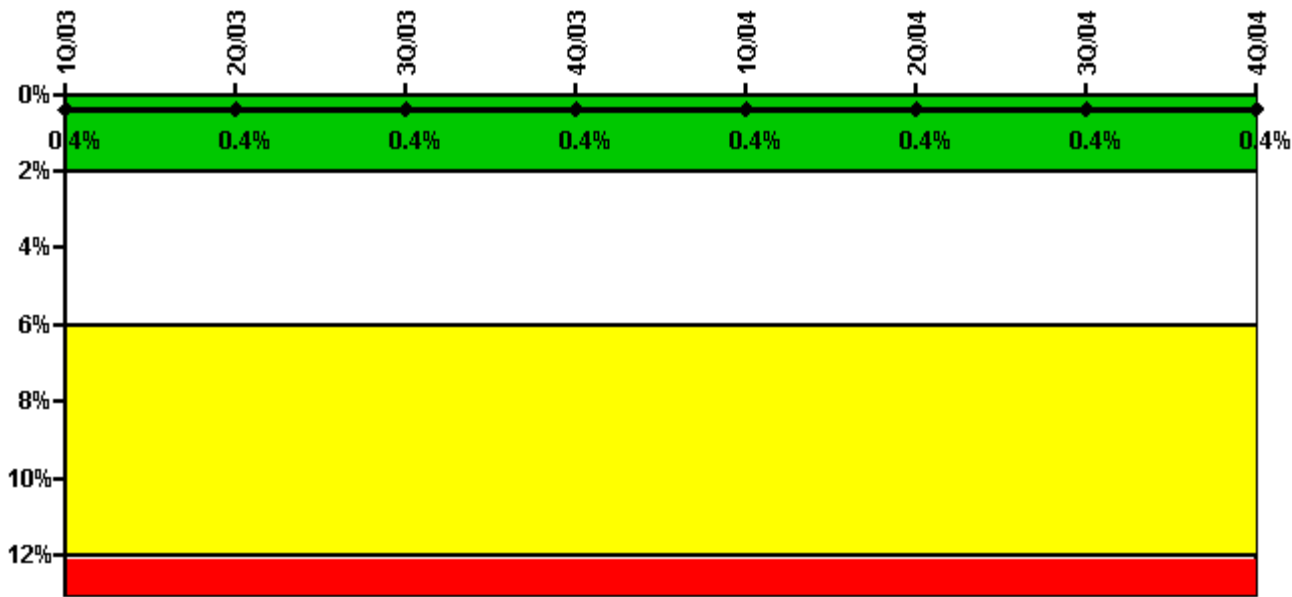
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	6.00	0	12.00	0	0	16.20	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20
Train 2								
Planned unavailable hours	0.50	4.76	0	3.00	2.57	16.56	0.25	13.25
Unplanned unavailable hours	0	0	0	4.50	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20
Train 3								
Planned unavailable hours	7.20	0	2.82	2.00	8.65	0	18.00	0.18
Unplanned unavailable hours	0	0	0	6.00	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20
Indicator value	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	18.75	16.38	1.50	13.60	12.00	2.97	6.32	2.68
Unplanned unavailable hours	0	0	0.16	0	0	0	0	0
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	2149.70	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20
Train 2								
Planned unavailable hours	19.63	13.25	2.50	4.30	7.11	11.51	23.68	2.20
Unplanned unavailable hours	0	0	0	7.27	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	2160.00	2149.70	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20
Train 3								
Planned unavailable hours	4.50	9.43	0	11.60	4.70	9.32	0.55	4.63
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2149.70	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

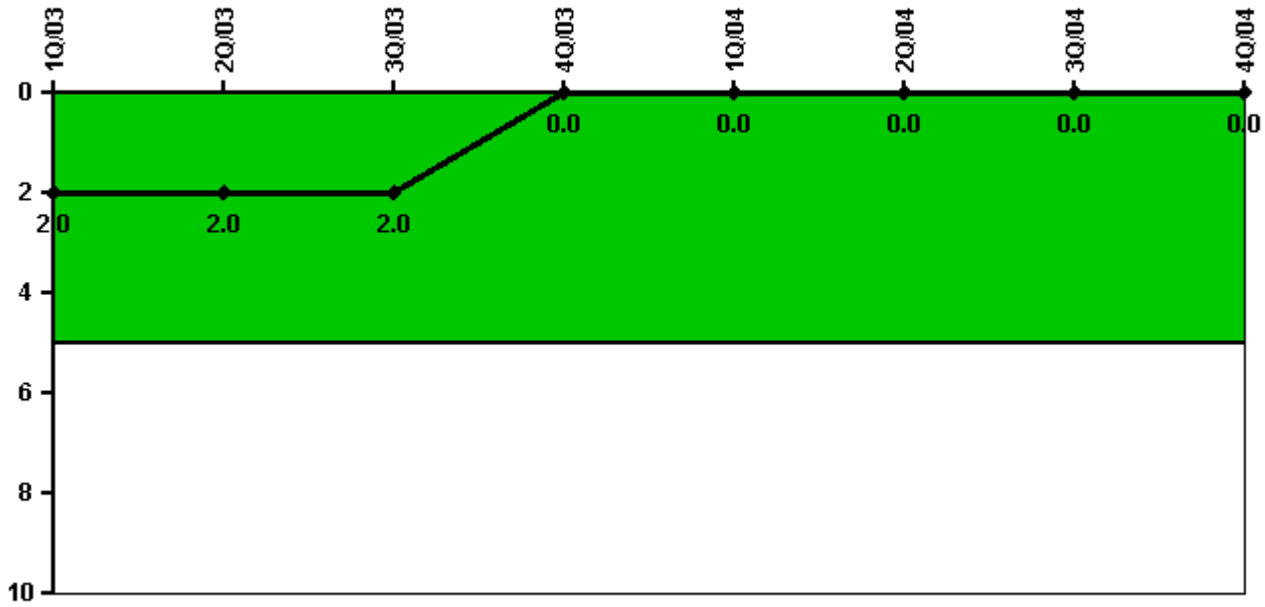
Licensee Comments: none

Number of Questions per Item	Percentage of Items
1Q/03	1%
2Q/03	0.1%
3Q/03	0.1%
4Q/03	0.1%
1Q/04	0.1%
2Q/04	0.1%
3Q/04	0.1%
4Q/04	0.1%

Notes

[illegible]

Licensee Comments: none

Safety System Functional Failures (PWR)

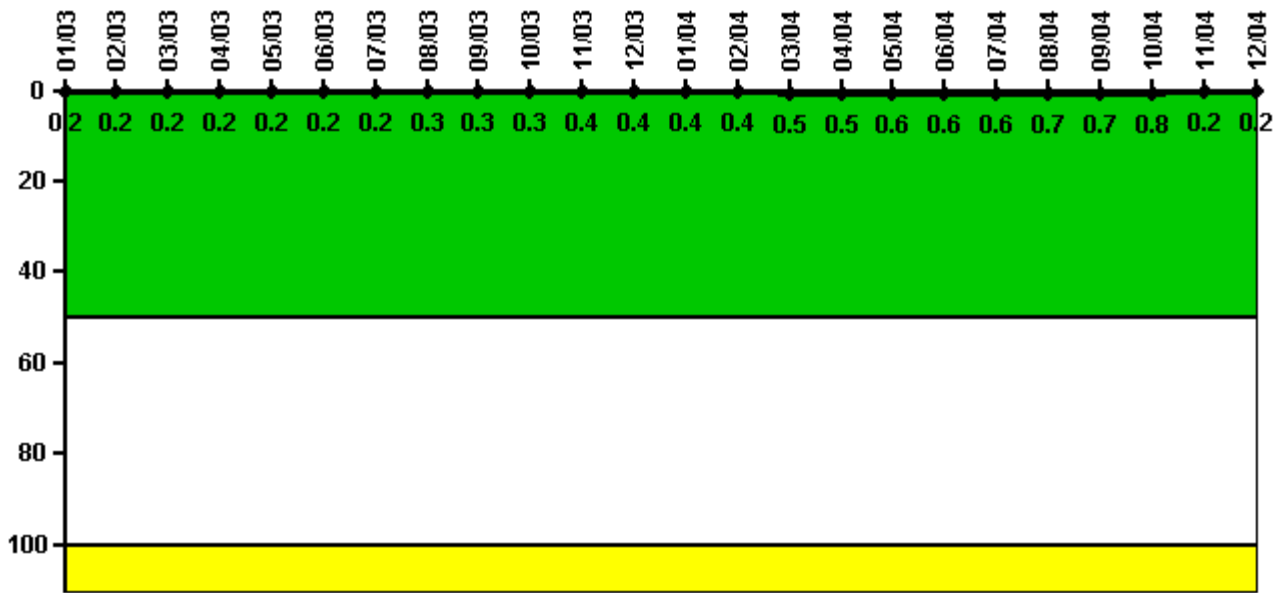
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



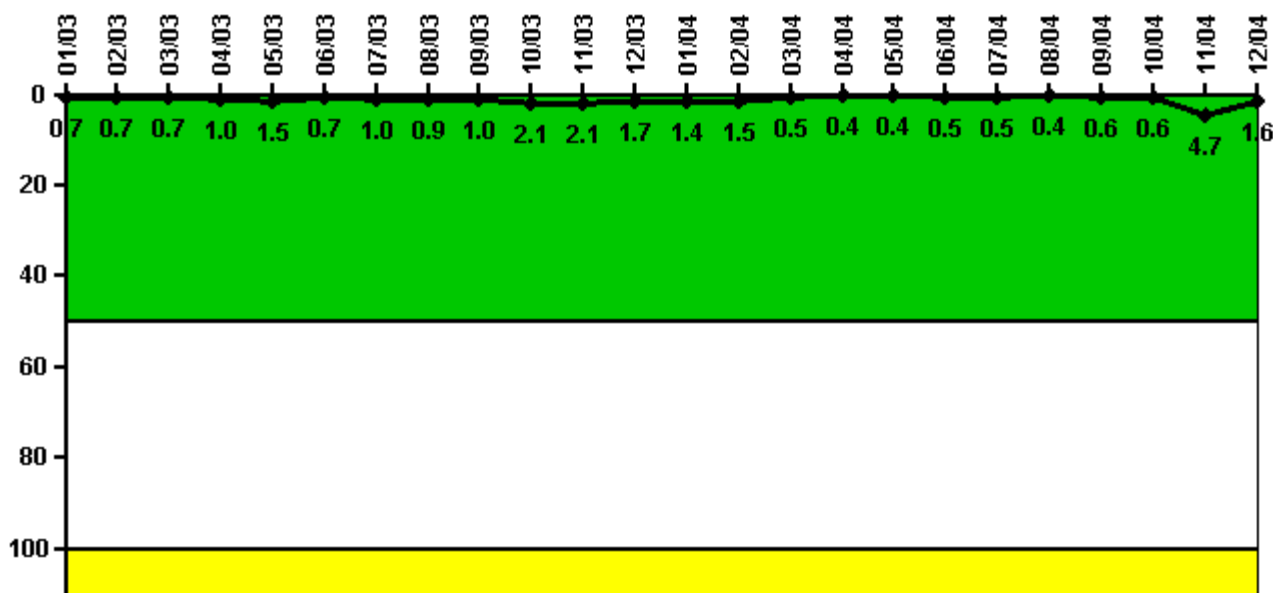
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum activity	0.001800	0.001900	0.002100	0.002100	0.002200	0.002300	0.002200	0.002800	0.003100	0.003330	0.004160	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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4
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	0.004230	0.004400	0.004620	0.005170	0.005510	0.005810	0.006250	0.006690	0.006880	0.007960	0.001550	0.002020
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



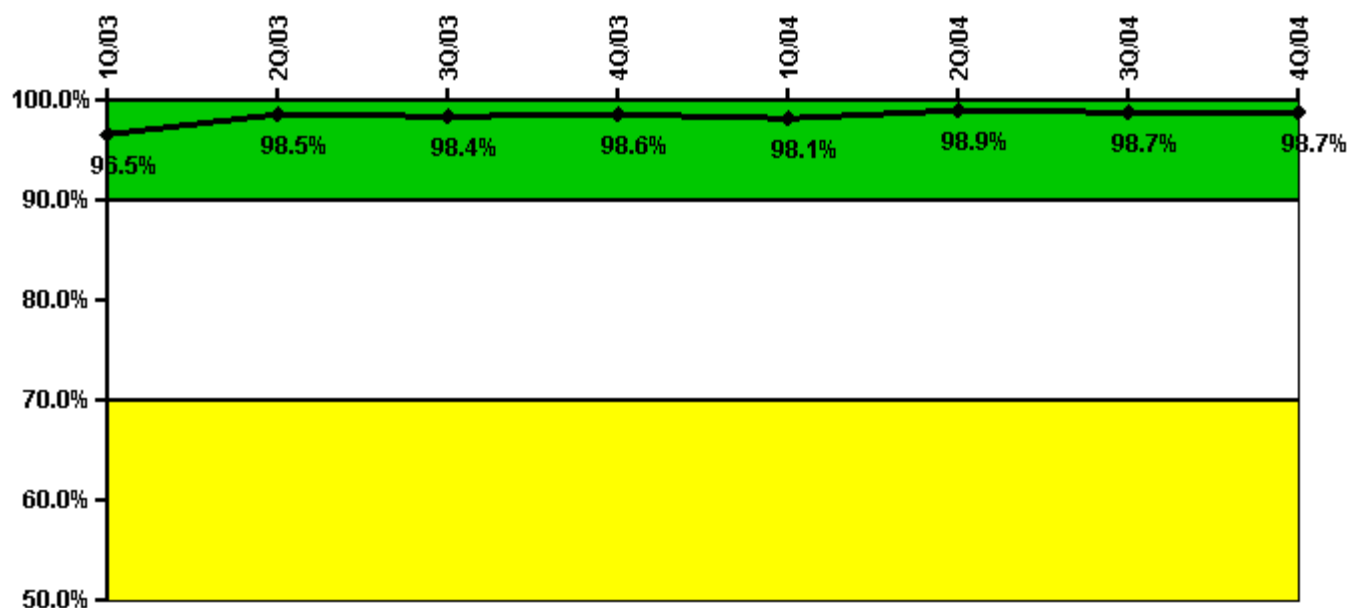
Thresholds: White > 50.0 Yellow > 100.0

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	0.067	0.070	0.070	0.102	0.148	0.075	0.097	0.093	0.096	0.211	0.211	0.168
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.7	0.7	1.0	1.5	0.7	1.0	0.9	1.0	2.1	2.1	1.7
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	0.139	0.147	0.050	0.039	0.038	0.045	0.045	0.037	0.060	0.060	0.469	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	1.4	1.5	0.5	0.4	0.4	0.5	0.5	0.4	0.6	0.6	4.7	1.6

Licensee Comments: none

Drill/Exercise Performance



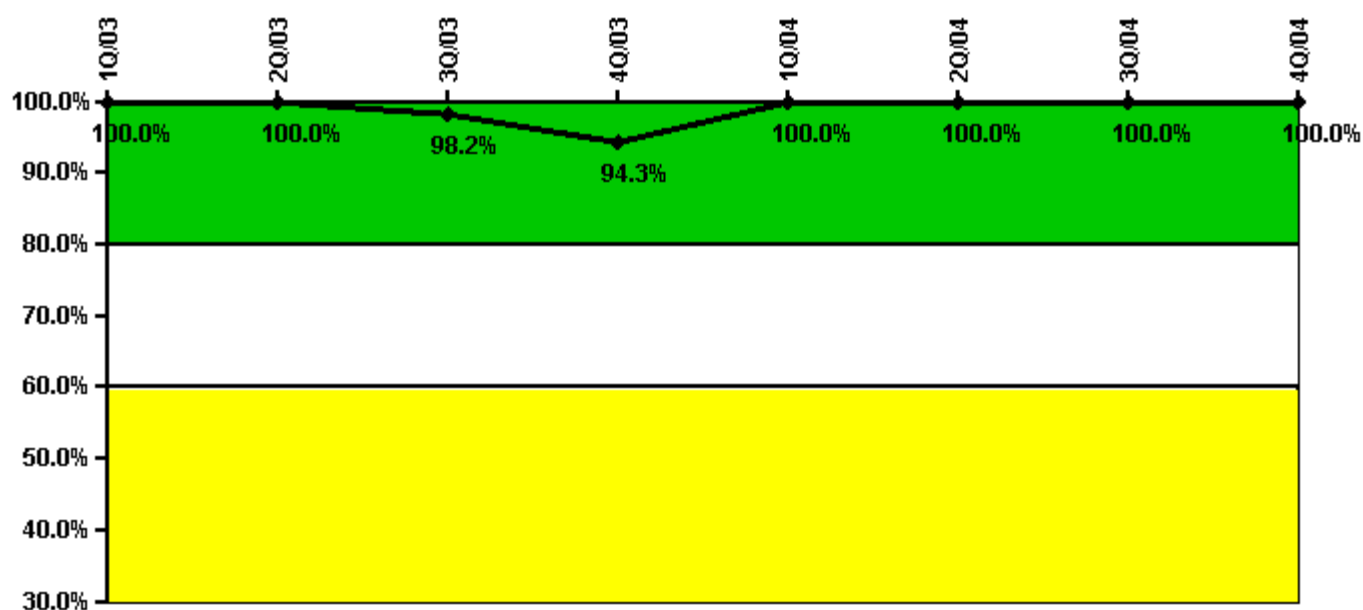
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful opportunities	7.0	9.0	21.0	24.0	21.0	46.0	19.0	0
Total opportunities	7.0	9.0	21.0	24.0	22.0	47.0	19.0	0
Indicator value	96.5%	98.5%	98.4%	98.6%	98.1%	98.9%	98.7%	98.7%

Licensee Comments: none

ERO Drill Participation



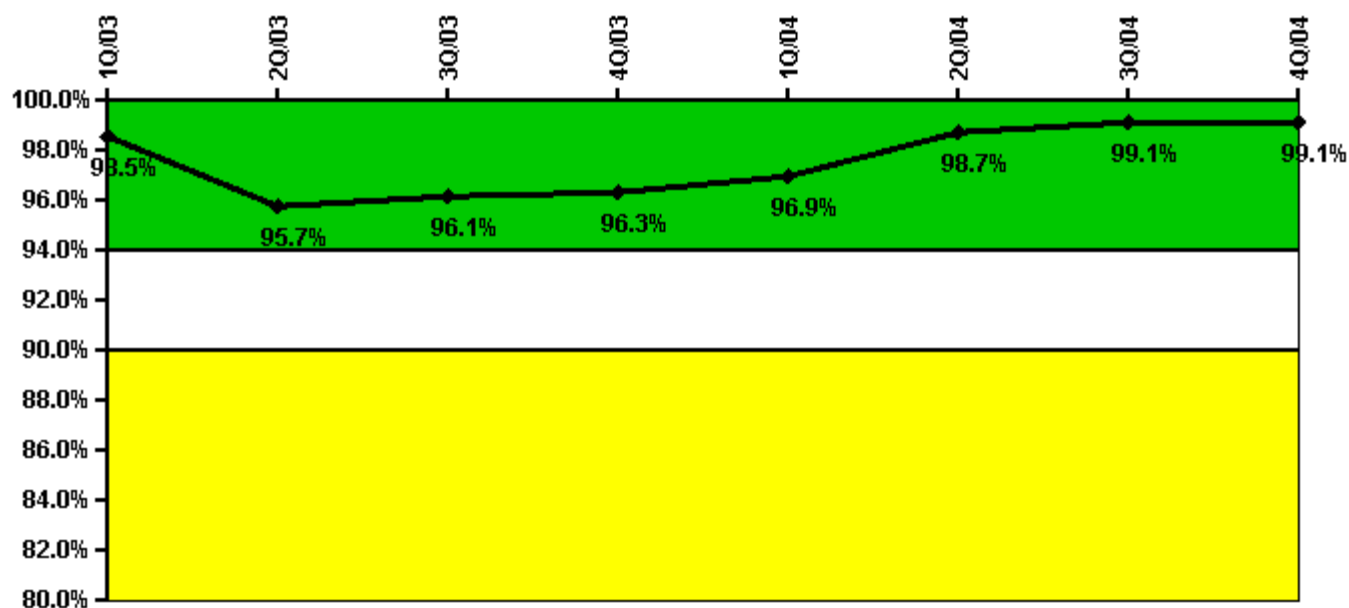
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Participating Key personnel	53.0	53.0	55.0	50.0	54.0	59.0	59.0	60.0
Total Key personnel	53.0	53.0	56.0	53.0	54.0	59.0	59.0	60.0
Indicator value	100.0%	100.0%	98.2%	94.3%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



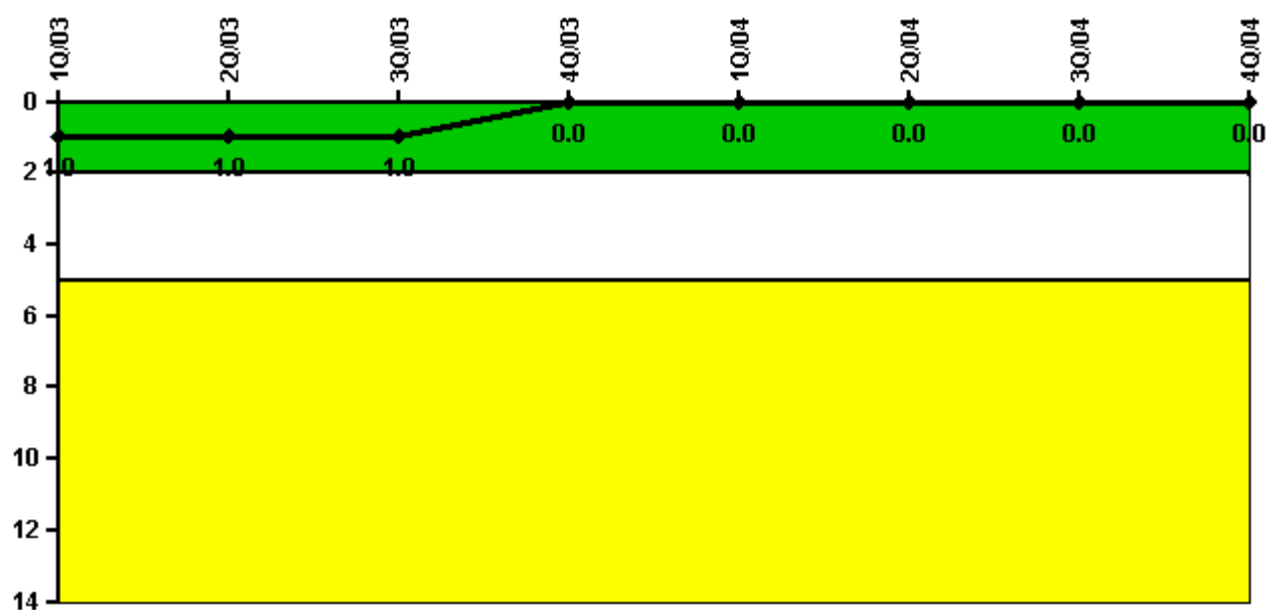
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful siren-tests	984	1236	1805	1901	2491	3183	2299	1081
Total sirens-tests	988	1386	1857	1920	2510	3212	2321	1097
Indicator value	98.5%	95.7%	96.1%	96.3%	96.9%	98.7%	99.1%	99.1%

Licensee Comments: none

Occupational Exposure Control Effectiveness



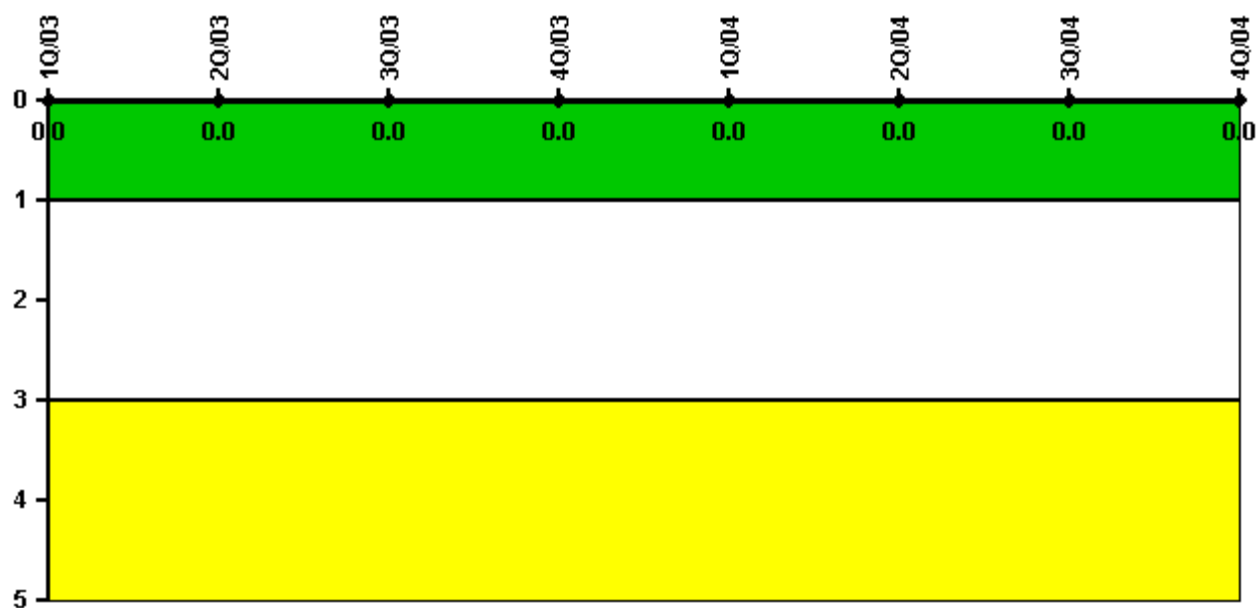
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

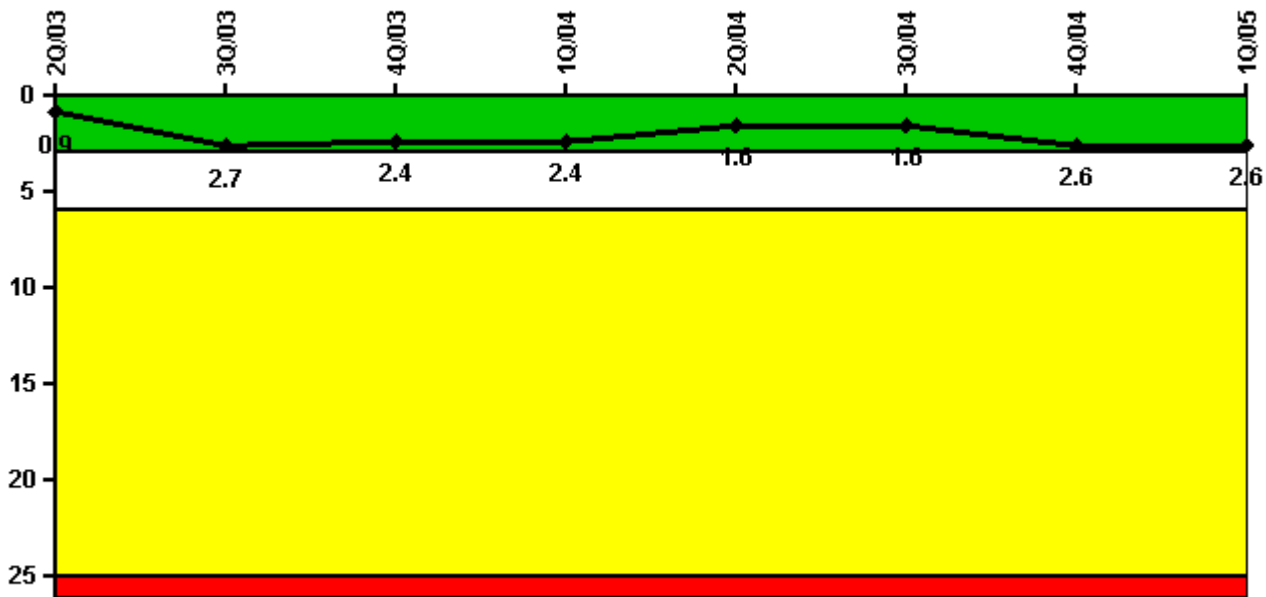
Last Modified: March 9, 2005

Indian Point 2

1Q/2005 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



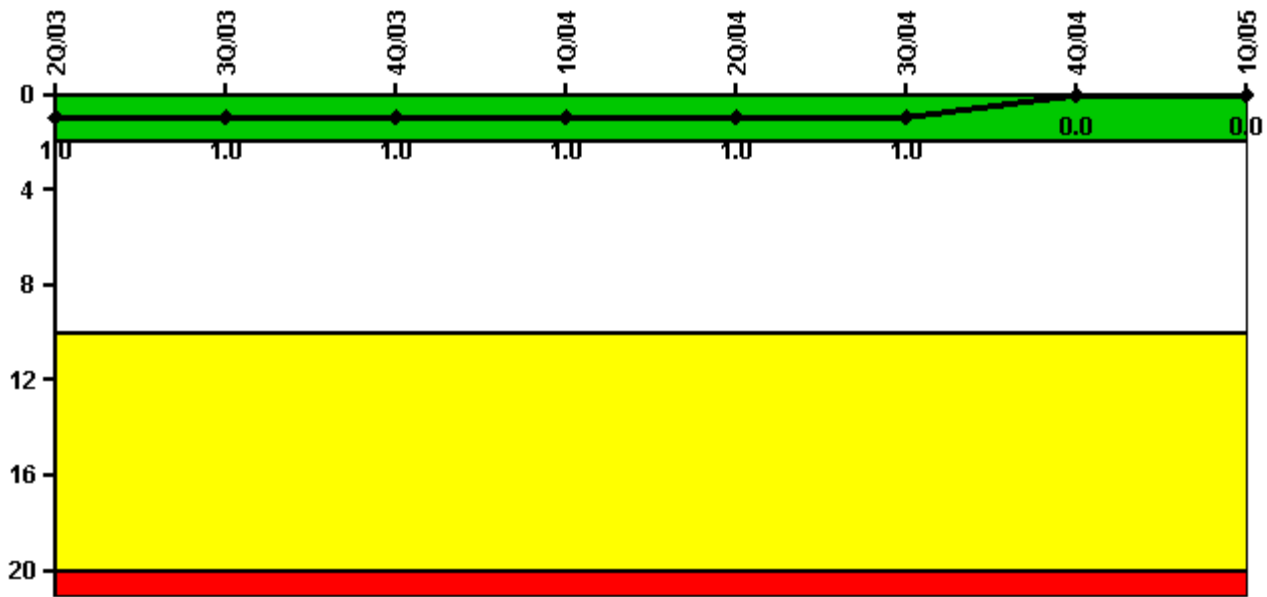
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Unplanned scrams	1.0	2.0	0	0	0	2.0	1.0	0
Critical hours	2149.7	2146.2	2209.0	2184.0	2183.0	2147.4	1480.2	2160.0
Indicator value	0.9	2.7	2.4	2.4	1.6	1.6	2.6	2.6

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



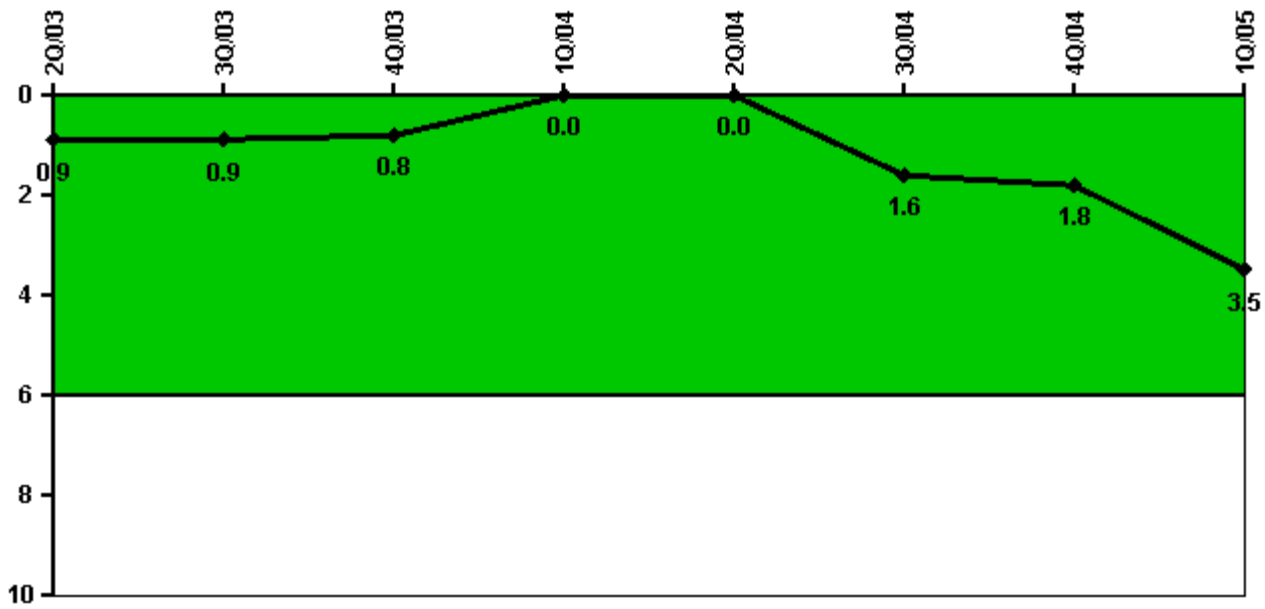
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



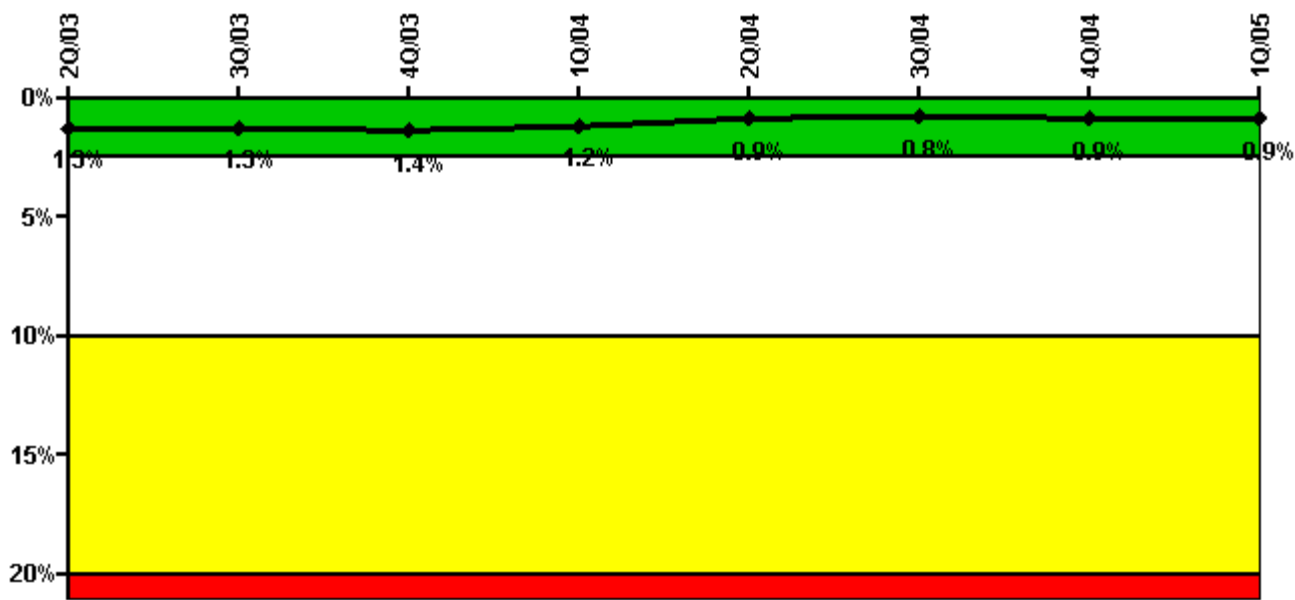
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Unplanned power changes	0	0	0	0	0	2.0	0	2.0
Critical hours	2149.7	2146.2	2209.0	2184.0	2183.0	2147.4	1480.2	2160.0
Indicator value	0.9	0.9	0.8	0	0	1.6	1.8	3.5

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



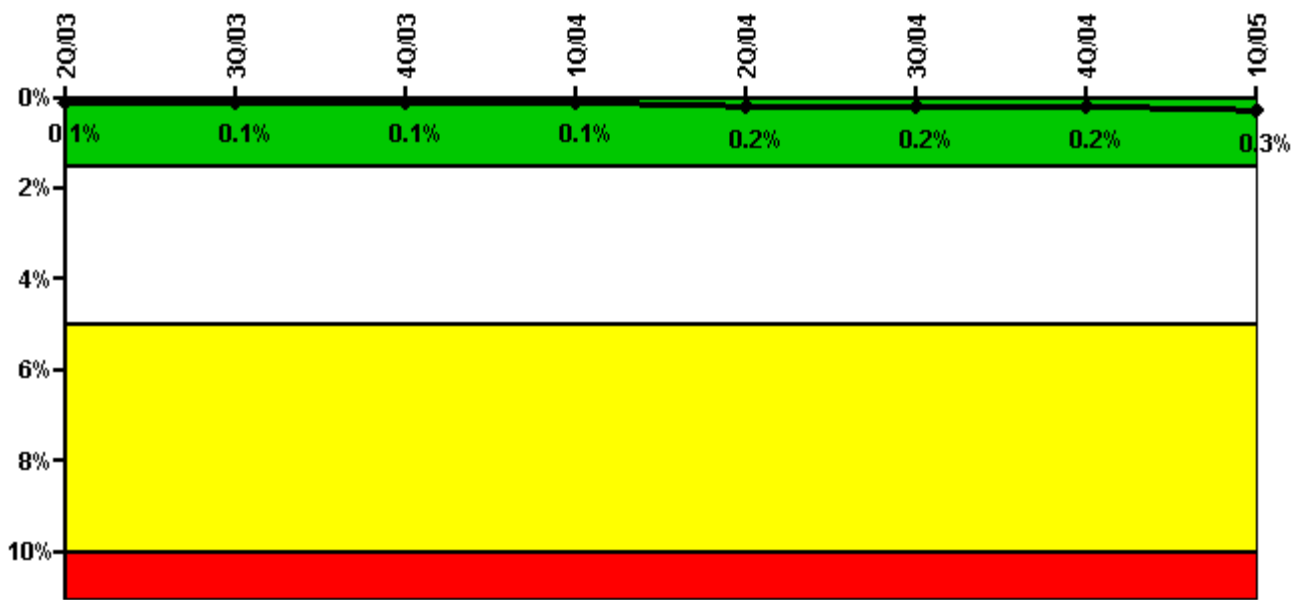
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	11.35	0	0	30.01	0	18.88	25.83	17.85
Unplanned unavailable hours	0	6.57	0	0	0	0	0	0
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	21.25	0	25.52	17.73	0	43.69	22.97	25.03
Unplanned unavailable hours	9.42	0	0	0	0	0	0	0
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 3								
Planned unavailable hours	46.45	0	22.90	8.00	14.11	0	45.00	12.70
Unplanned unavailable hours	0	0	0	0	0	0	27.86	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	1.3%	1.3%	1.4%	1.2%	0.9%	0.8%	0.9%	0.9%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



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

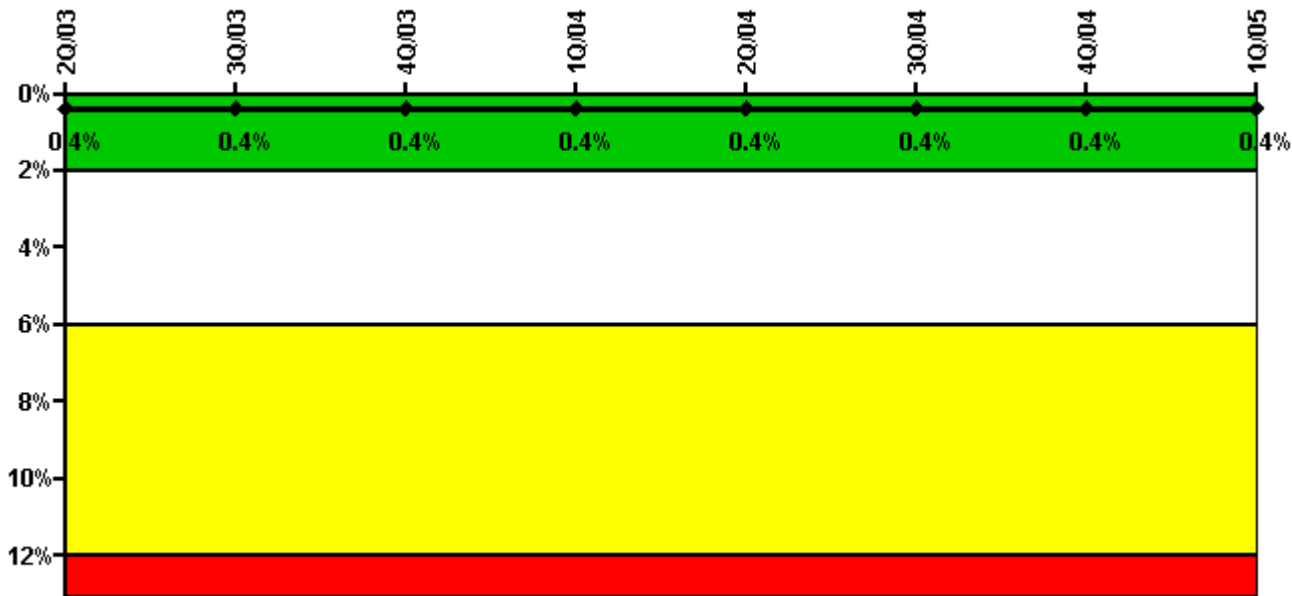
Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	0	12.00	0	0	16.20	0	0	11.00
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20	2160.00
Train 2								
Planned unavailable hours	4.76	0	3.00	2.57	16.56	0.25	13.25	0.67
Unplanned unavailable hours	0	0	4.50	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20	2160.00
Train 3								
Planned unavailable hours	0	2.82	2.00	8.65	0	18.00	0.18	16.91
Unplanned unavailable hours	0	0	6.00	0	0	0	0	36.50
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20	2160.00
Indicator value	0.1%	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.3%

Licensee Comments:

1Q/05: HPSI Pump Train 3, 408 hours of T/2 fault exposure hours (12/24/04-1/27/05) due to HPSI system gas intrusion from nitrogen saturated water leaking past valves of the test line for the #4 accumulator.

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

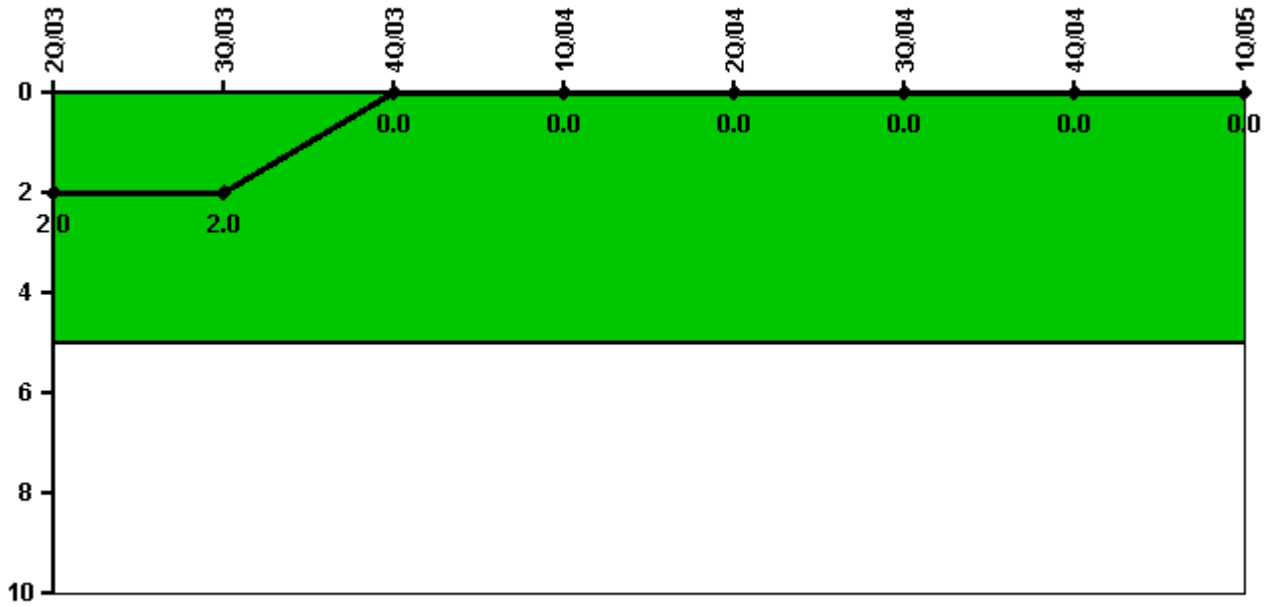
Safety System Unavailability, Heat Removal System (AFW)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	16.38	1.50	13.60	12.00	2.97	6.32	2.68	26.63
Unplanned unavailable hours	0	0.16	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2149.70	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20	2160.00
Train 2								
Planned unavailable hours	13.25	2.50	4.30	7.11	11.51	23.68	2.20	12.20
Unplanned unavailable hours	0	0	7.27	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	2149.70	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20	2160.00
Train 3								
Planned unavailable hours	9.43	0	11.60	4.70	9.32	0.55	4.63	20.43
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2149.70	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20	2160.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

Notes

[illegible]

Licensee Comments: none

Safety System Functional Failures (PWR)

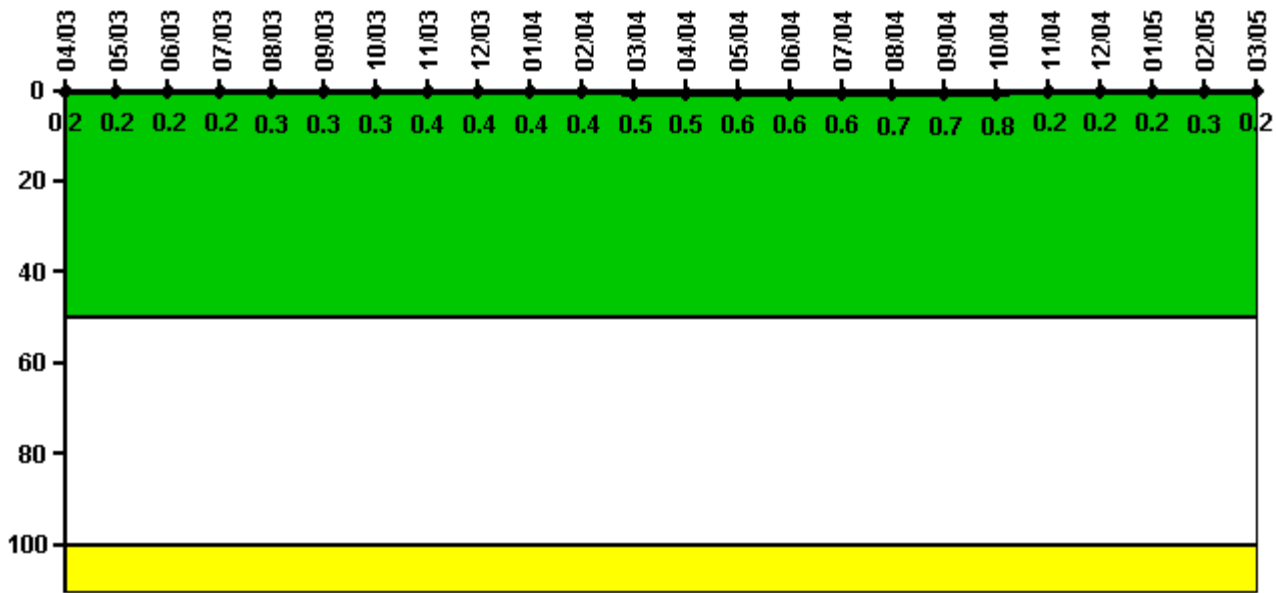
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



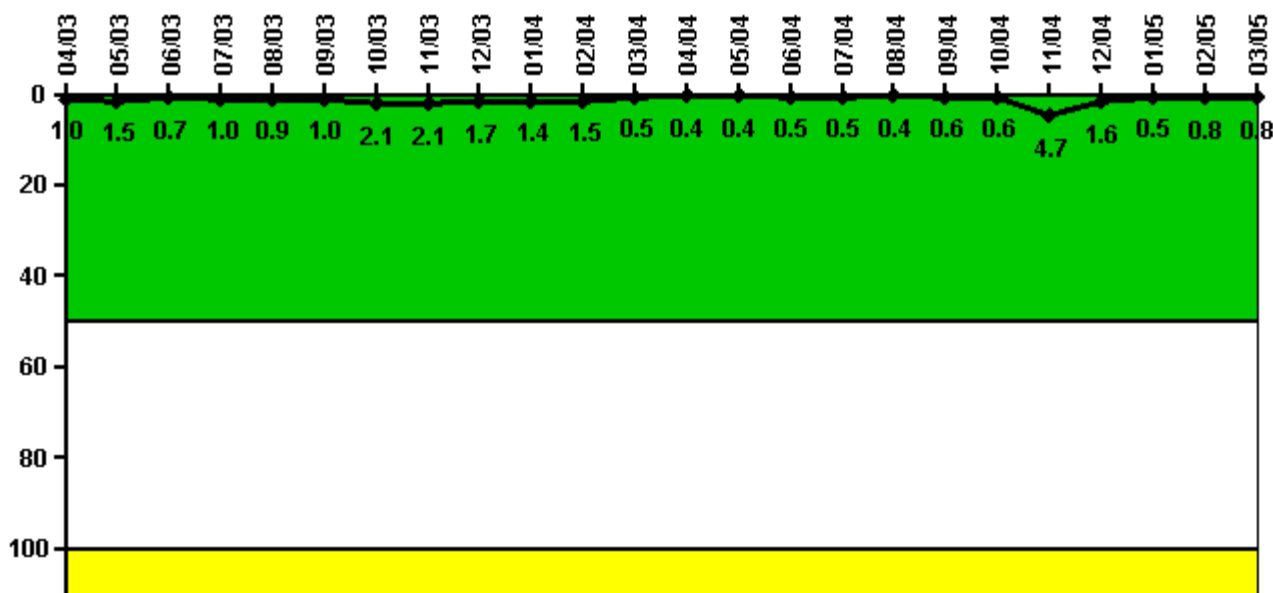
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04
Maximum activity	0.002100	0.002200	0.002300	0.002200	0.002800	0.003100	0.003330	0.004160	0.004110	0.004230	0.004400	0.004620
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5
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	0.005170	0.005510	0.005810	0.006250	0.006690	0.006880	0.007960	0.001550	0.002020	0.001870	0.003270	0.002140
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.2	0.2	0.2	0.3	0.2

Licensee Comments: none

Reactor Coolant System Leakage



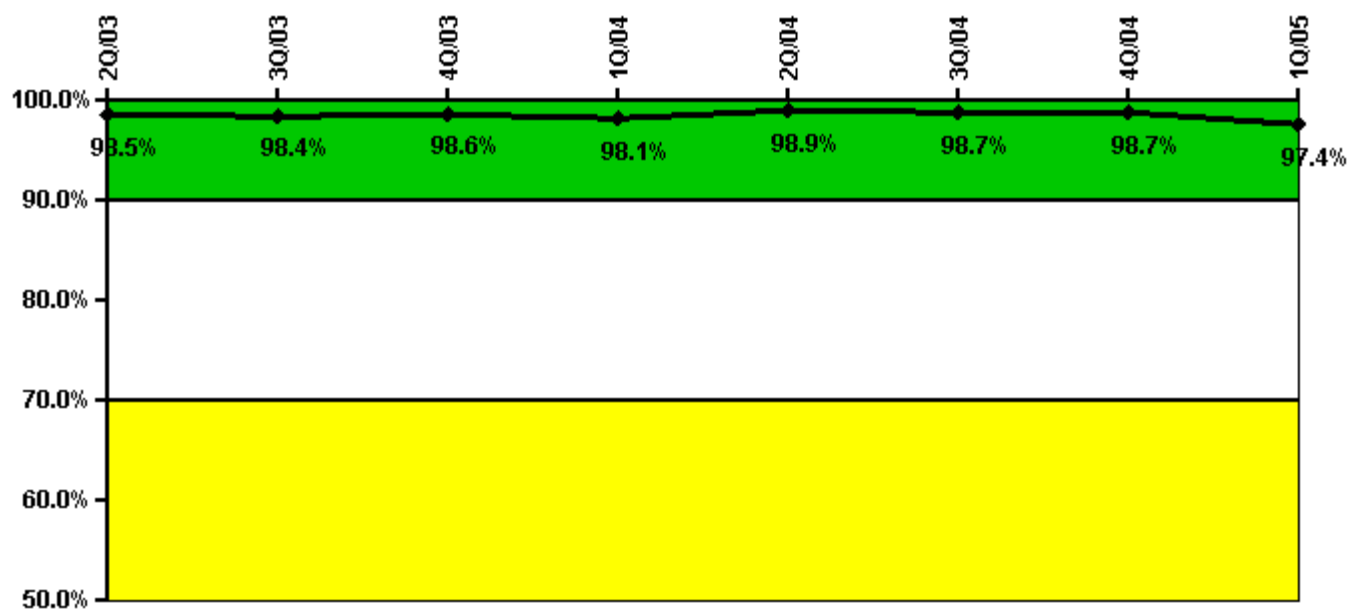
Thresholds: White > 50.0 Yellow > 100.0

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	0.102	0.148	0.075	0.097	0.093	0.096	0.211	0.211	0.168	0.139	0.147	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	1.5	0.7	1.0	0.9	1.0	2.1	2.1	1.7	1.4	1.5	0.5
Reactor Coolant System Leakage	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05
Maximum leakage	0.039	0.038	0.045	0.045	0.037	0.060	0.060	0.469	0.159	0.051	0.075	0.075
Technical specification limit	10.0	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	0.5	0.5	0.4	0.6	0.6	4.7	1.6	0.5	0.8	0.8

Licensee Comments: none

Drill/Exercise Performance



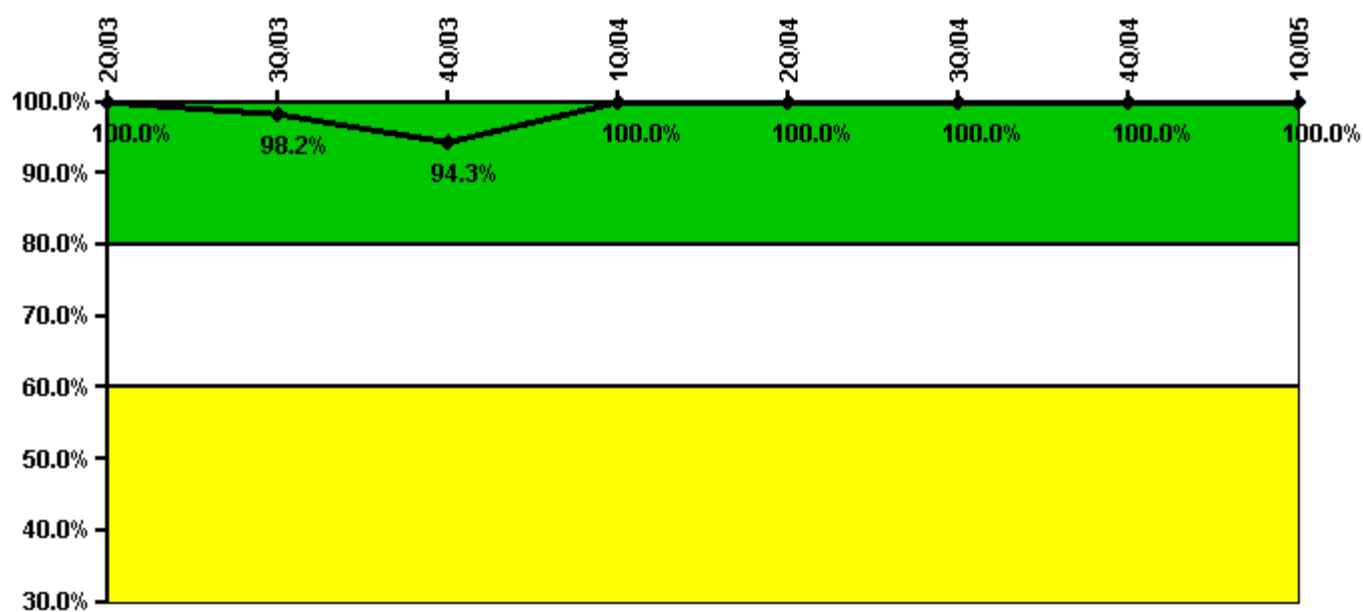
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful opportunities	9.0	21.0	24.0	21.0	46.0	19.0	0	12.0
Total opportunities	9.0	21.0	24.0	22.0	47.0	19.0	0	14.0
Indicator value	98.5%	98.4%	98.6%	98.1%	98.9%	98.7%	98.7%	97.4%

Licensee Comments: none

ERO Drill Participation



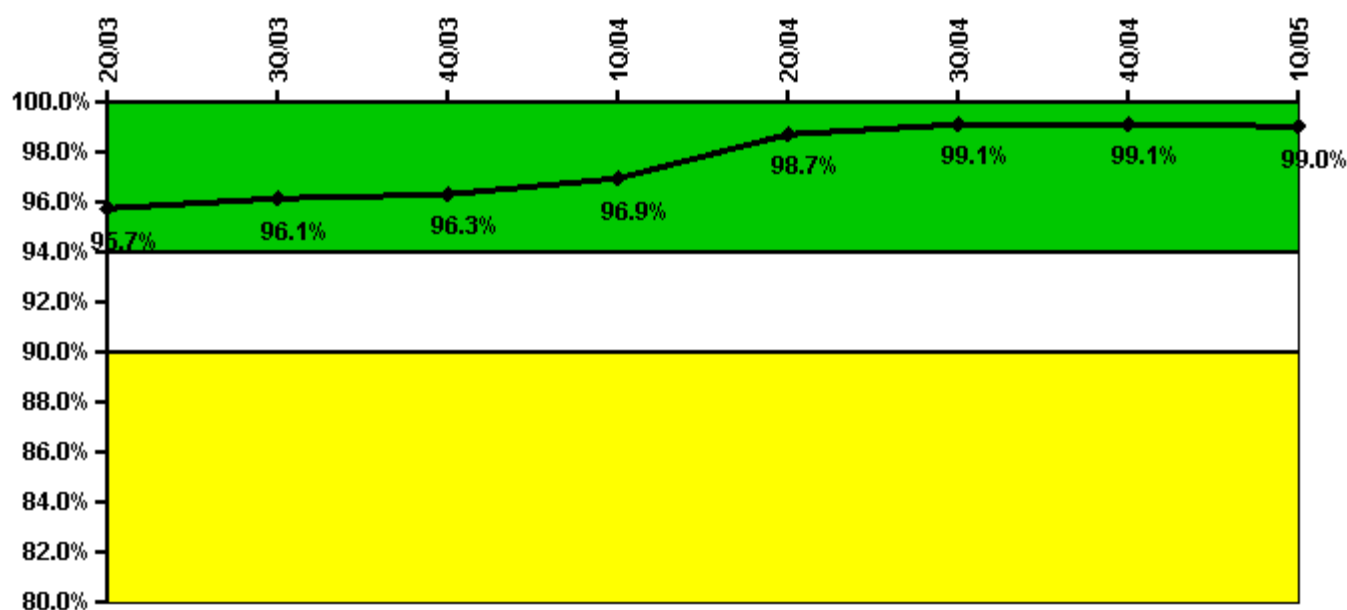
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Participating Key personnel	53.0	55.0	50.0	54.0	59.0	59.0	60.0	57.0
Total Key personnel	53.0	56.0	53.0	54.0	59.0	59.0	60.0	57.0
Indicator value	100.0%	98.2%	94.3%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



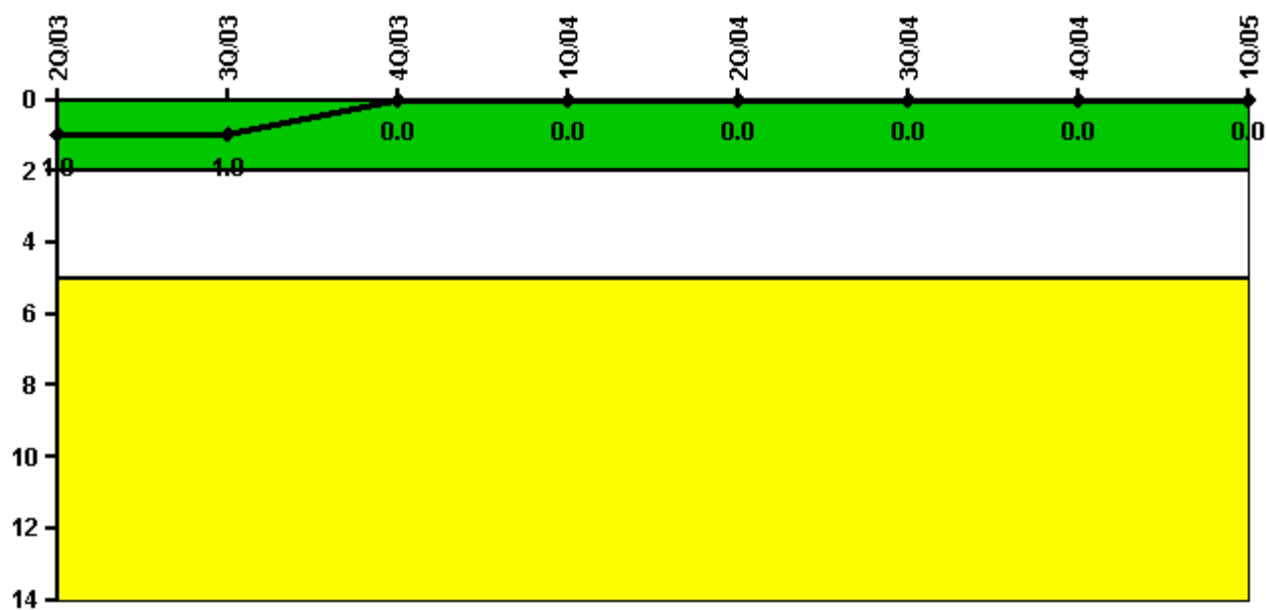
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful siren-tests	1236	1805	1901	2491	3183	2299	1065	1134
Total sirens-tests	1386	1857	1920	2510	3212	2321	1081	1143
Indicator value	95.7%	96.1%	96.3%	96.9%	98.7%	99.1%	99.1%	99.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness

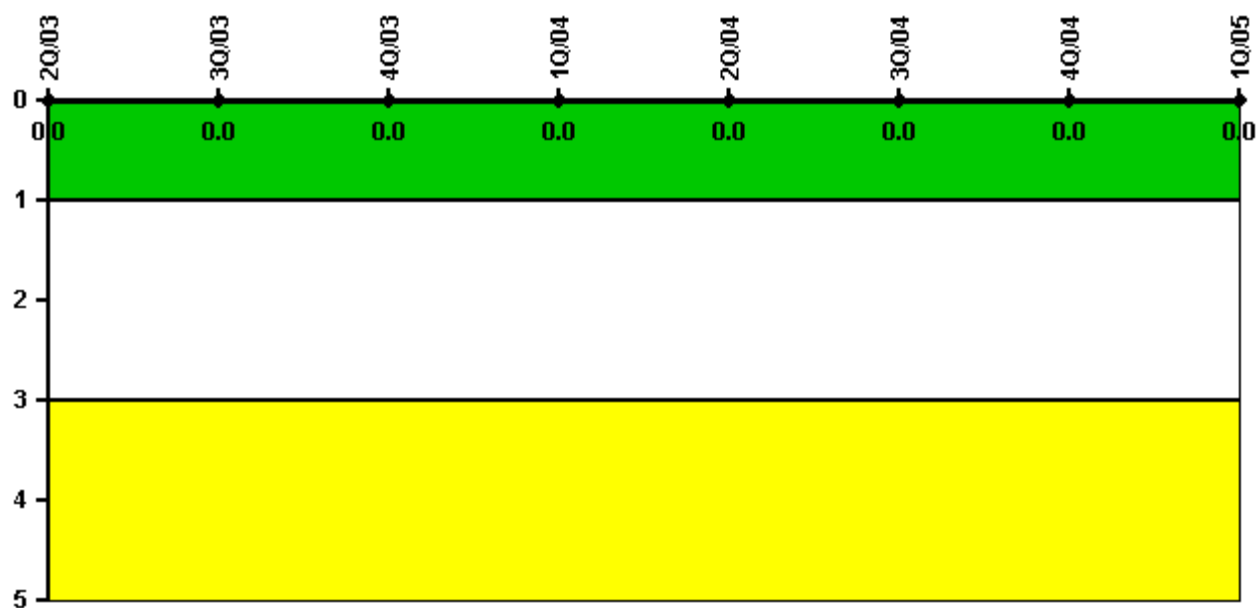


Thresholds: White > 2.0 Yellow > 5.0

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](#)

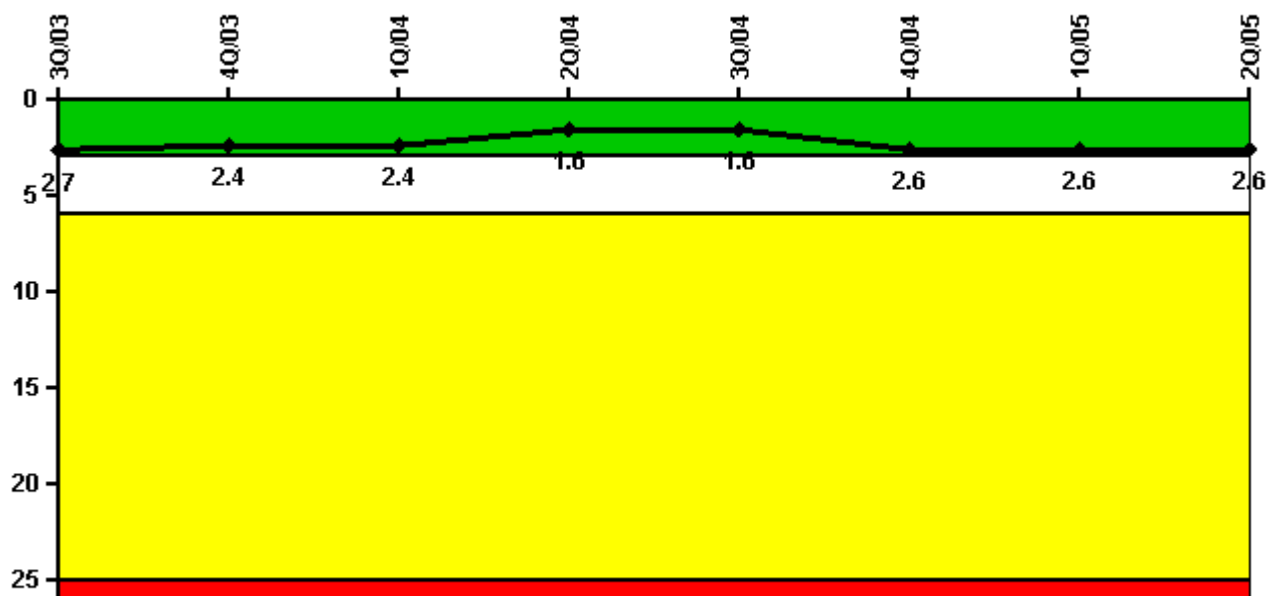
Last Modified: June 17, 2005

Indian Point 2

2Q/2005 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



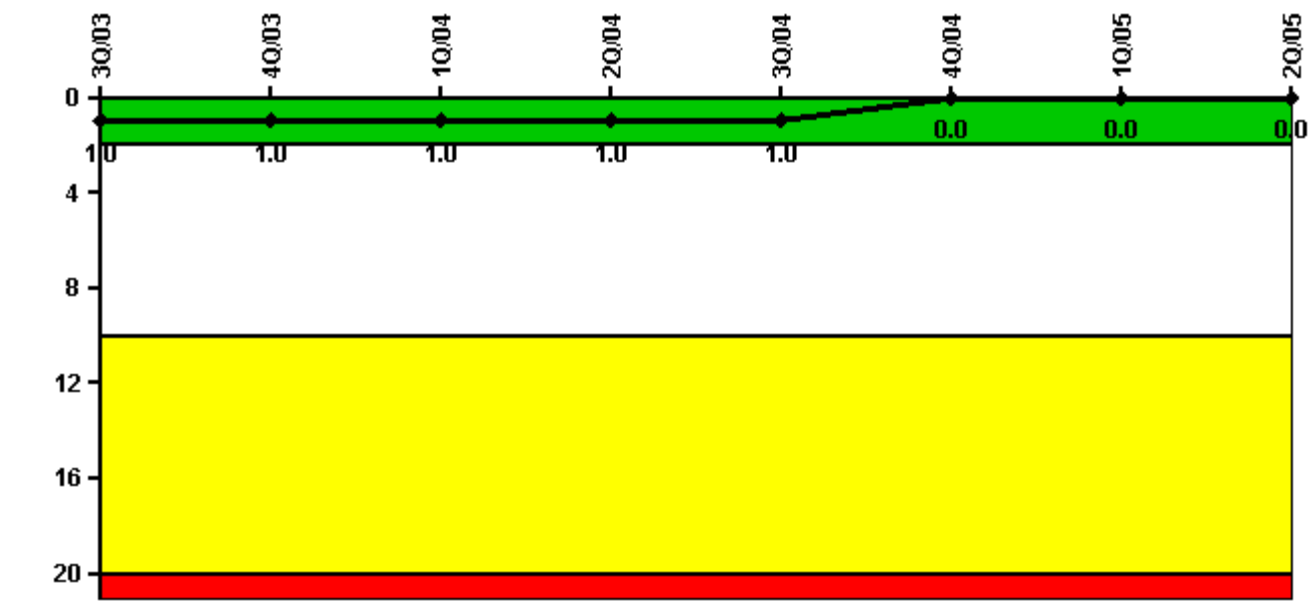
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned scrams	2.0	0	0	0	2.0	1.0	0	0
Critical hours	2146.2	2209.0	2184.0	2183.0	2147.4	1480.2	2160.0	2183.0
Indicator value	2.7	2.4	2.4	1.6	1.6	2.6	2.6	2.6

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



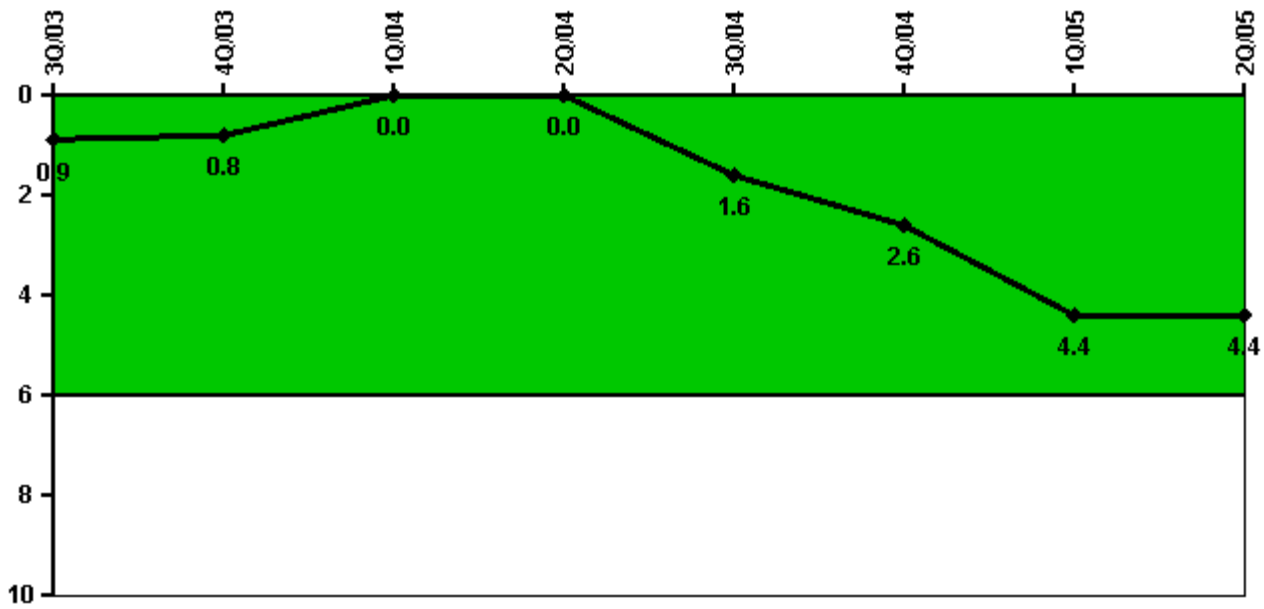
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



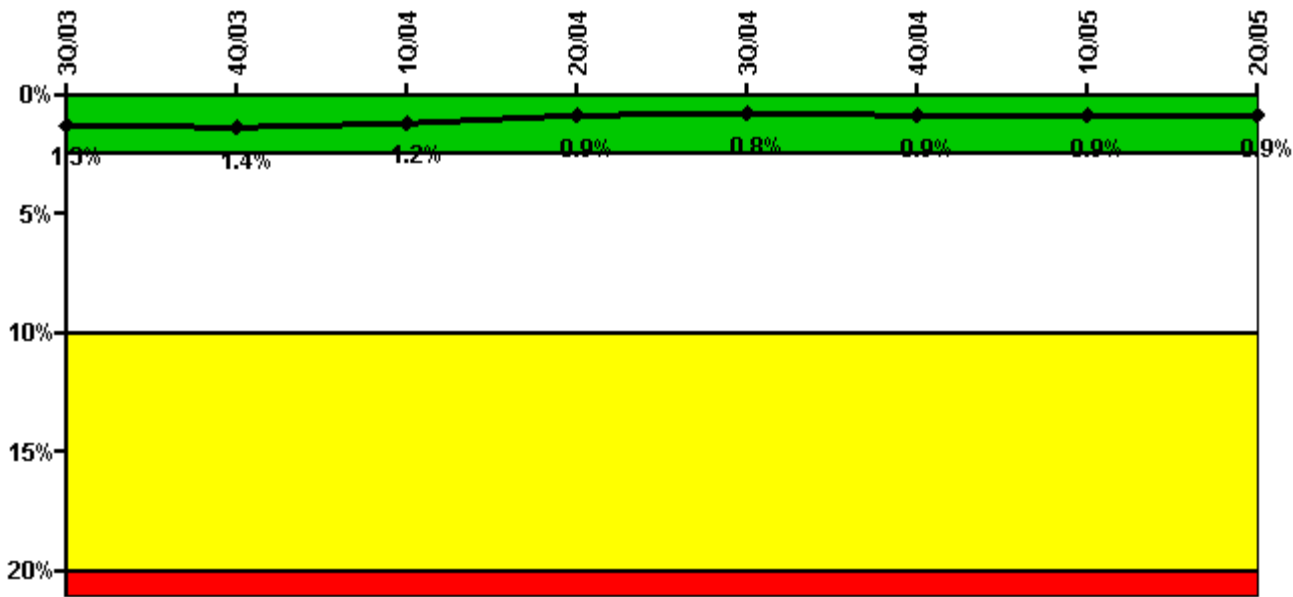
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned power changes	0	0	0	0	2.0	1.0	2.0	0
Critical hours	2146.2	2209.0	2184.0	2183.0	2147.4	1480.2	2160.0	2183.0
Indicator value	0.9	0.8	0	0	1.6	2.6	4.4	4.4

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



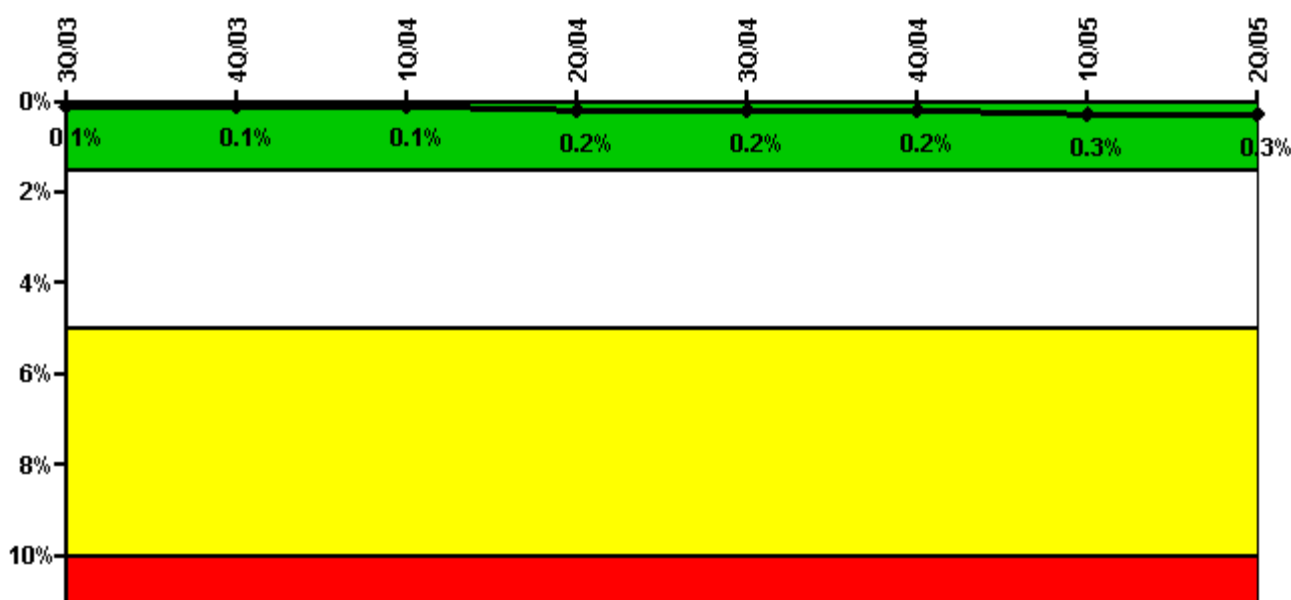
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	0	0	30.01	0	18.88	25.83	17.85	4.25
Unplanned unavailable hours	6.57	0	0	0	0	0.50	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	0	25.52	17.73	0	43.69	22.97	25.03	9.55
Unplanned unavailable hours	0	0	0	0	0	0.50	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 3								
Planned unavailable hours	0	22.90	8.00	14.11	0	45.00	12.70	7.25
Unplanned unavailable hours	0	0	0	0	0	28.36	0	0
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	1.3%	1.4%	1.2%	0.9%	0.8%	0.9%	0.9%	0.9%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



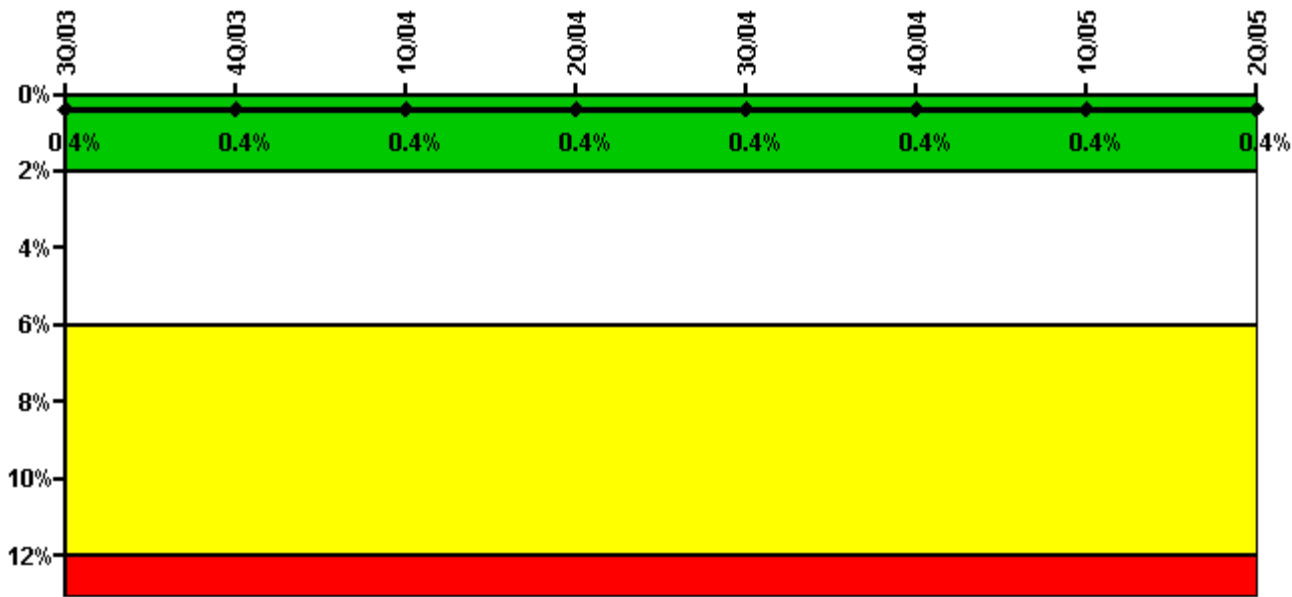
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	12.00	0	0	16.20	0	0	11.00	0.53
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20	2160.00	2183.00
Train 2								
Planned unavailable hours	0	3.00	2.57	16.56	0.25	13.25	0.67	8.32
Unplanned unavailable hours	0	4.50	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20	2160.00	2183.00
Train 3								
Planned unavailable hours	2.82	2.00	8.65	0	18.00	0.18	16.91	5.46
Unplanned unavailable hours	0	6.00	0	0	0	0	36.50	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20	2160.00	2183.00
Indicator value	0.1%	0.1%	0.1%	0.2%	0.2%	0.2%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	1.50	13.60	12.00	2.97	6.32	2.68	26.63	19.67
Unplanned unavailable hours	0.16	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20	2160.00	2183.00
Train 2								
Planned unavailable hours	2.50	4.30	7.11	11.51	23.68	2.20	12.20	4.12
Unplanned unavailable hours	0	7.27	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	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20	2160.00	2183.00
Train 3								
Planned unavailable hours	0	11.60	4.70	9.32	0.55	4.63	20.43	2.83
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2146.00	2209.00	2184.00	2183.00	2208.00	1480.20	2160.00	2183.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%

Licensee Comments: none

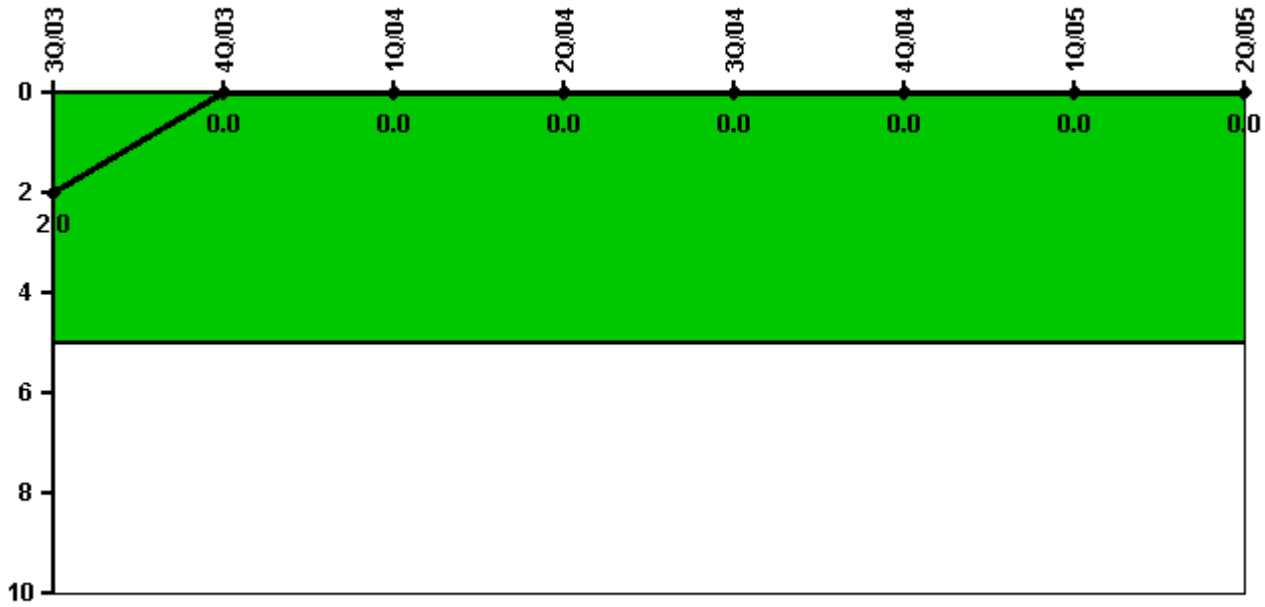
Number of Questions	Percentage of Items
0	2%
1	1%
2	0.1%
3	0.1%
4	0.1%
5	0.1%
6	0.1%
7	0.1%
8	0.1%

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

Notes

[illegible]

Licensee Comments: none

Safety System Functional Failures (PWR)

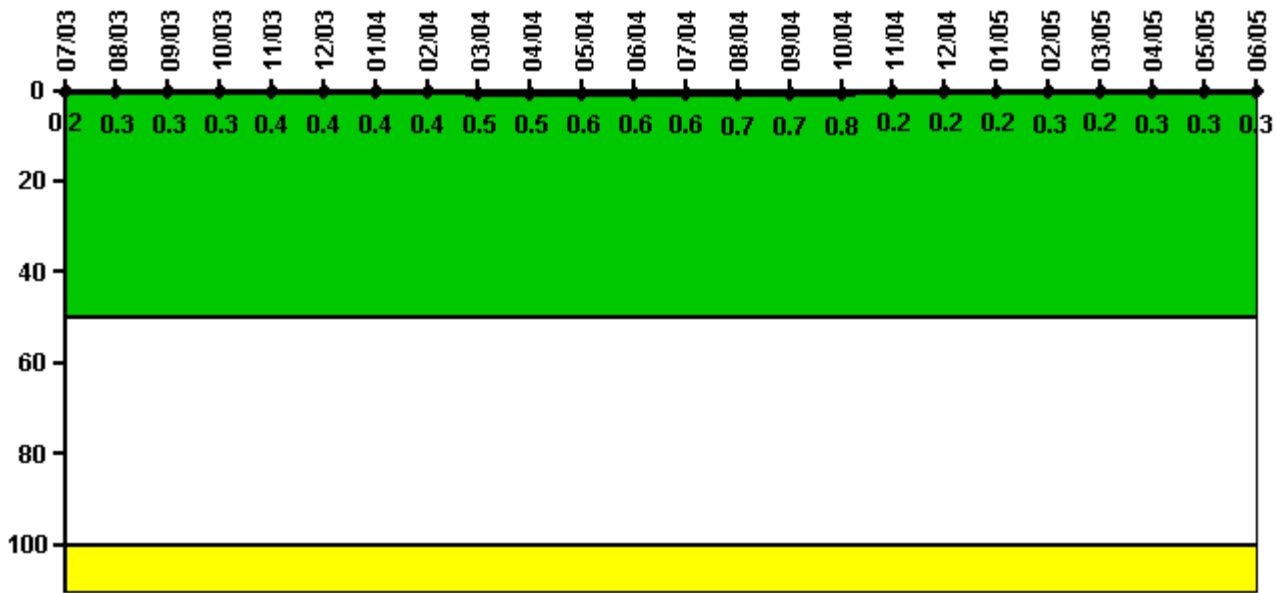
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



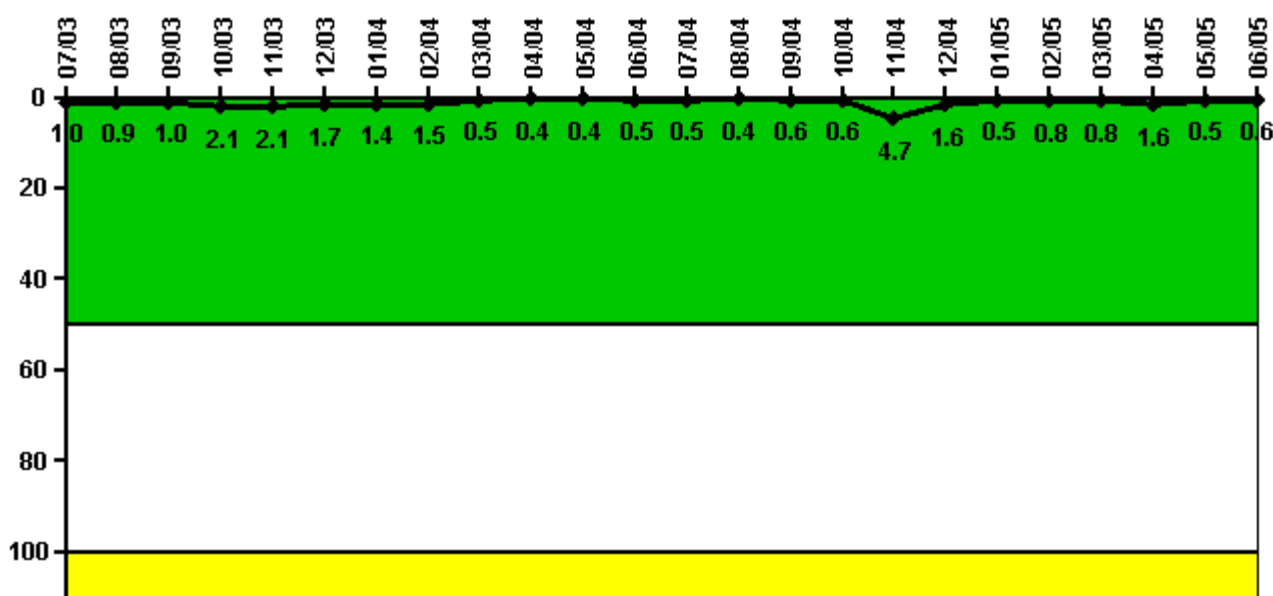
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum activity	0.002200	0.002800	0.003100	0.003330	0.004160	0.004110	0.004230	0.004400	0.004620	0.005170	0.005510	0.005810
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.5	0.5	0.6	0.6
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	0.006250	0.006690	0.006880	0.007960	0.001550	0.002020	0.001870	0.003270	0.002140	0.002800	0.002630	0.003450
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.6	0.7	0.7	0.8	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3

Licensee Comments: none

Reactor Coolant System Leakage

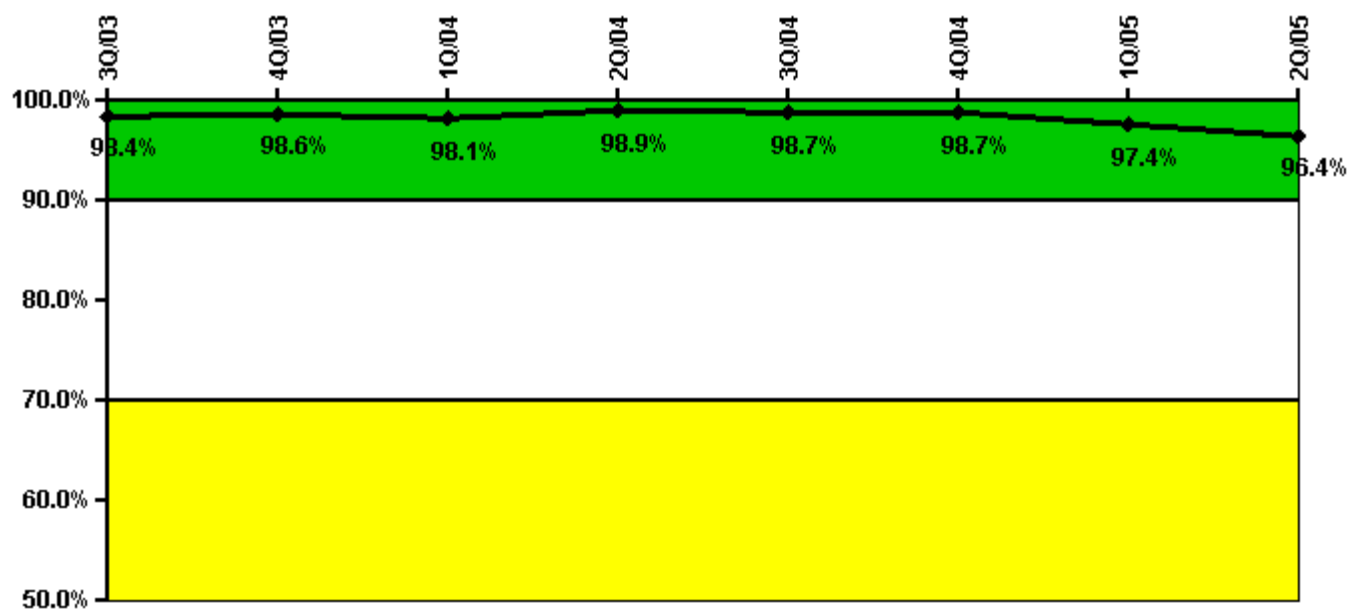


Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.097	0.093	0.096	0.211	0.211	0.168	0.139	0.147	0.050	0.039	0.038	0.045
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.0	0.9	1.0	2.1	2.1	1.7	1.4	1.5	0.5	0.4	0.4	0.5
Reactor Coolant System Leakage	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05
Maximum leakage	0.045	0.037	0.060	0.060	0.469	0.159	0.051	0.075	0.075	0.160	0.054	0.064
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.5	0.4	0.6	0.6	4.7	1.6	0.5	0.8	0.8	1.6	0.5	0.6

Licensee Comments: none

Drill/Exercise Performance

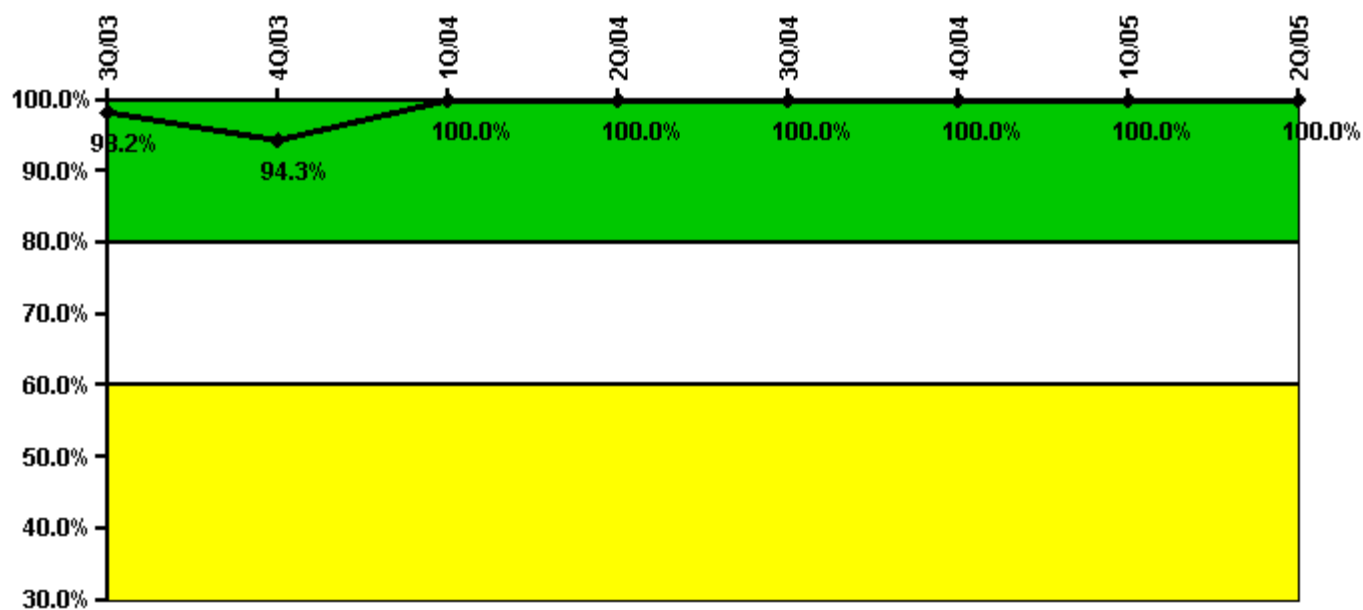
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful opportunities	21.0	24.0	21.0	46.0	19.0	0	12.0	17.0
Total opportunities	21.0	24.0	22.0	47.0	19.0	0	14.0	19.0
Indicator value	98.4%	98.6%	98.1%	98.9%	98.7%	98.7%	97.4%	96.4%

Licensee Comments: none

ERO Drill Participation



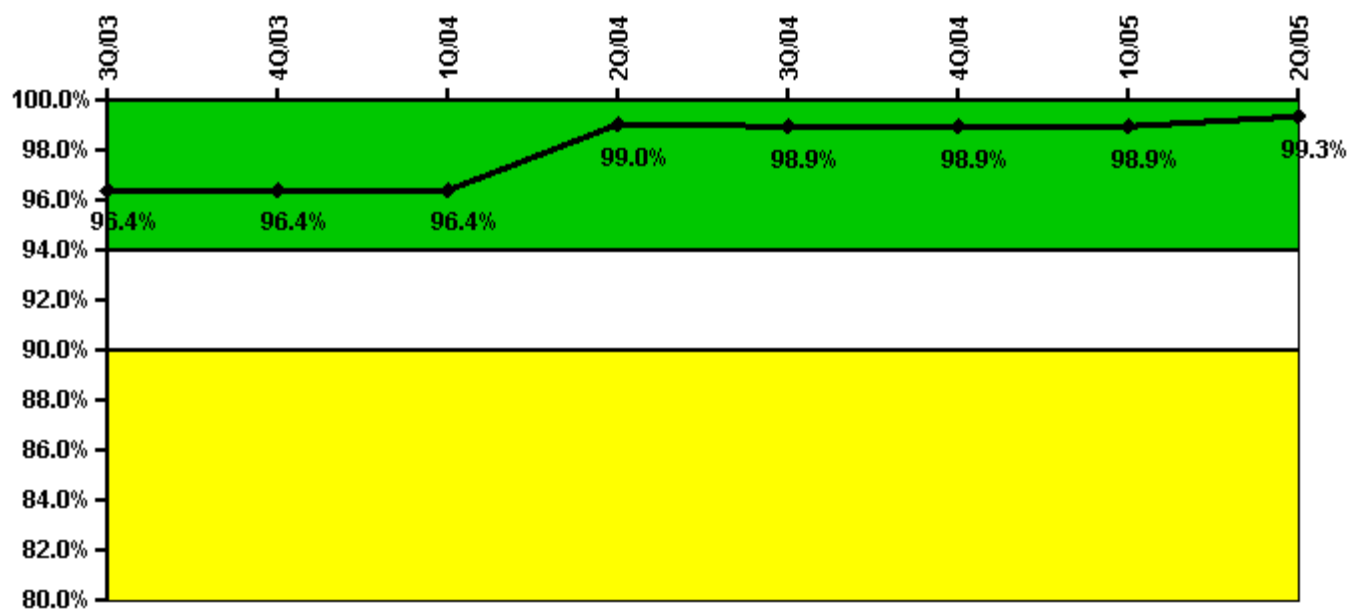
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Participating Key personnel	55.0	50.0	54.0	59.0	59.0	60.0	57.0	95.0
Total Key personnel	56.0	53.0	54.0	59.0	59.0	60.0	57.0	95.0
Indicator value	98.2%	94.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



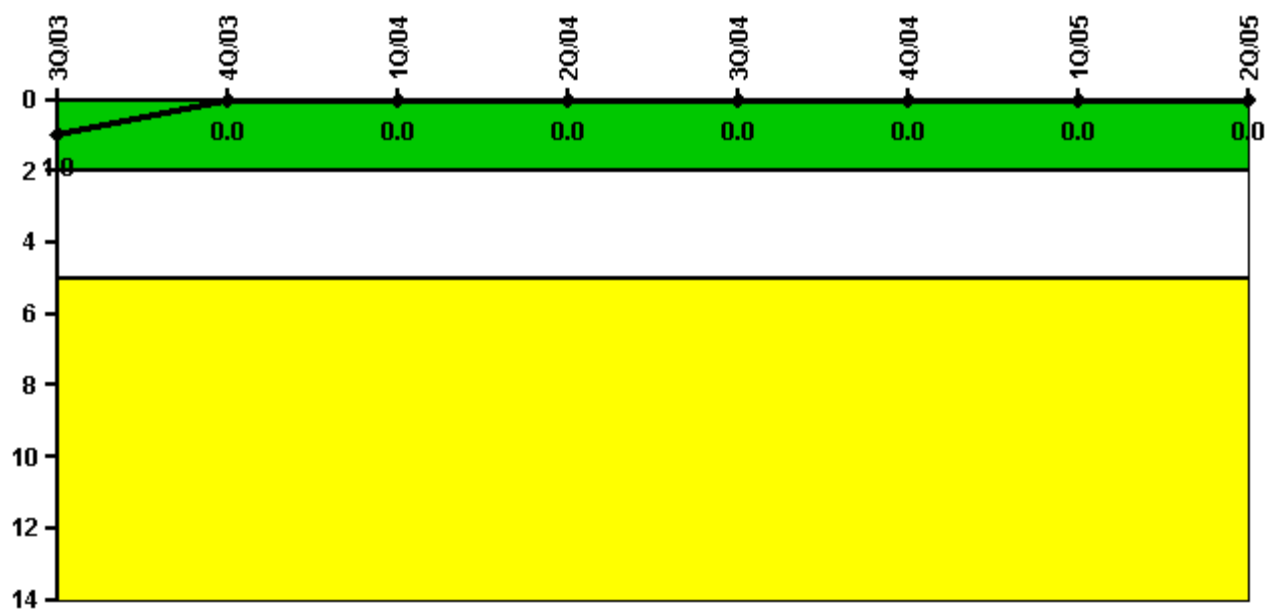
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful siren-tests	1222	1224	1070	1217	1233	954	1134	1014
Total sirens-tests	1232	1232	1078	1241	1244	962	1143	1015
Indicator value	96.4%	96.4%	96.4%	99.0%	98.9%	98.9%	98.9%	99.3%

Licensee Comments: none

Occupational Exposure Control Effectiveness



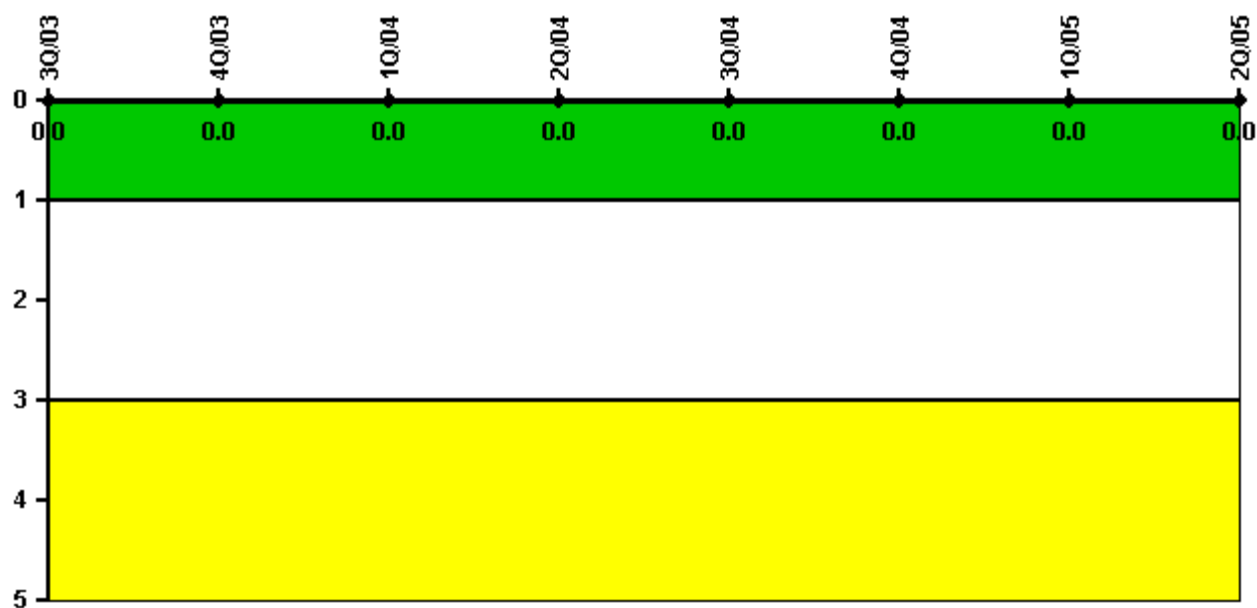
Thresholds: White > 2.0 Yellow > 5.0

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](#)

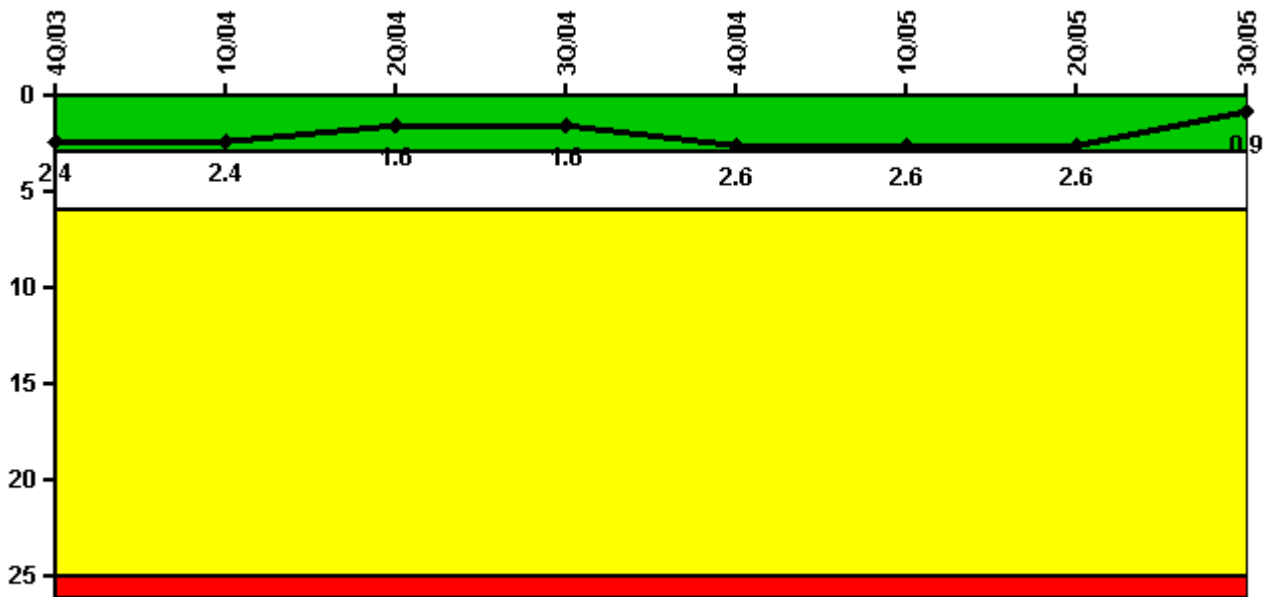
Last Modified: August 3, 2005

Indian Point 2

3Q/2005 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



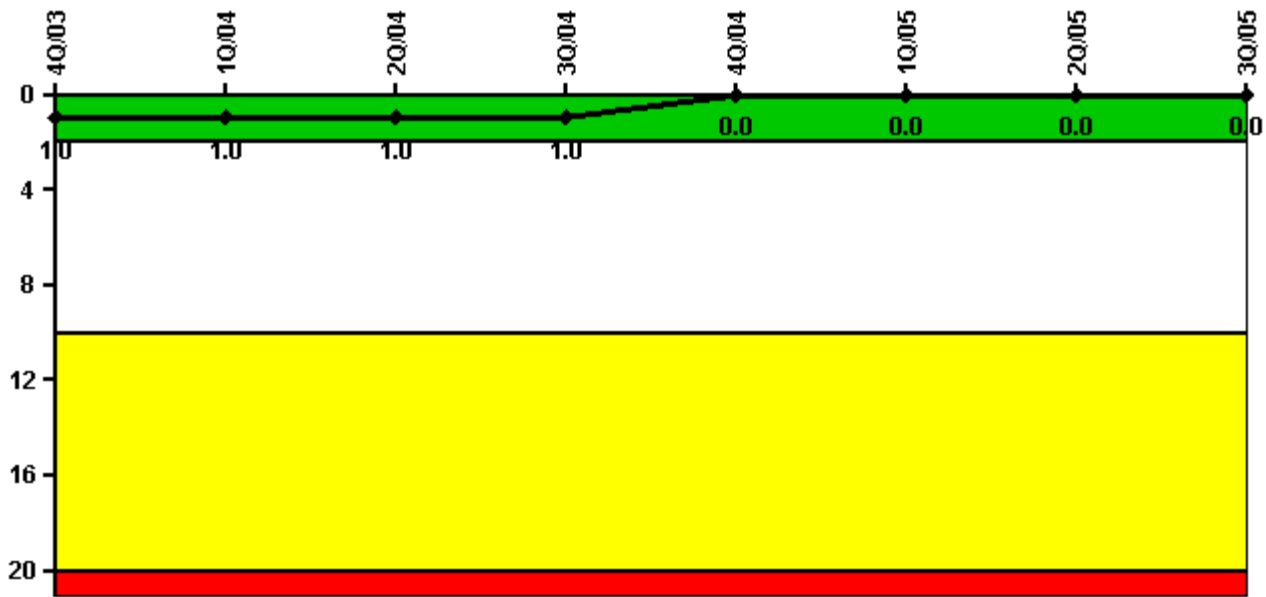
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned scrams	0	0	0	2.0	1.0	0	0	0
Critical hours	2209.0	2184.0	2183.0	2147.4	1480.2	2160.0	2183.0	2208.0
Indicator value	2.4	2.4	1.6	1.6	2.6	2.6	2.6	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



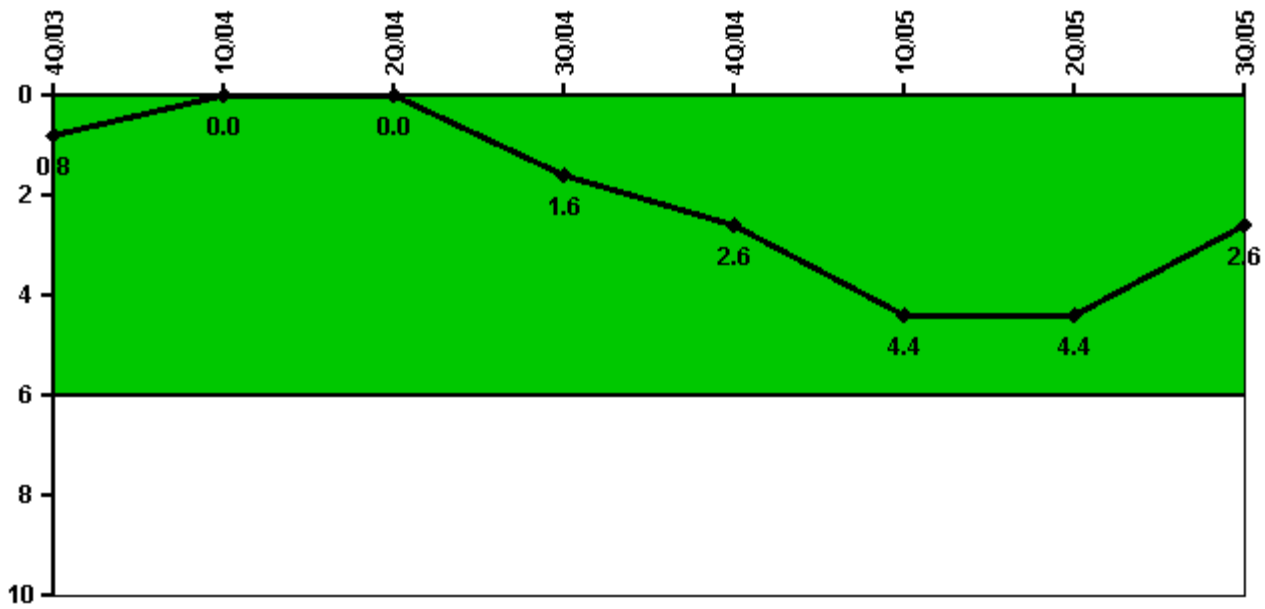
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



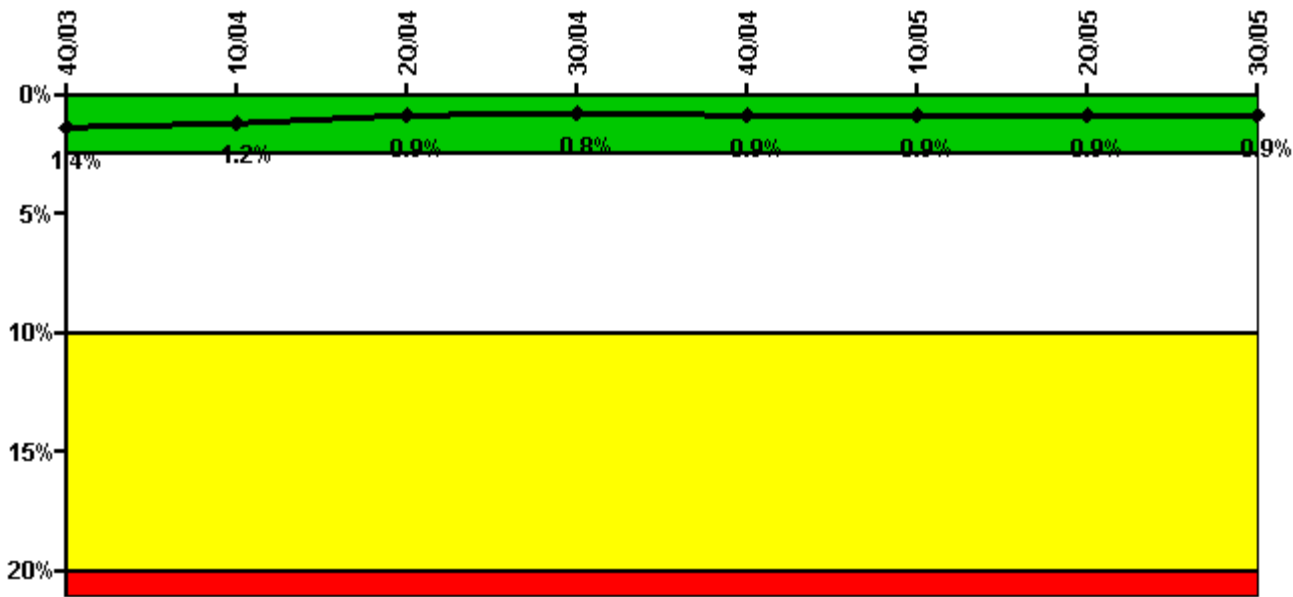
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned power changes	0	0	0	2.0	1.0	2.0	0	0
Critical hours	2209.0	2184.0	2183.0	2147.4	1480.2	2160.0	2183.0	2208.0
Indicator value	0.8	0	0	1.6	2.6	4.4	4.4	2.6

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



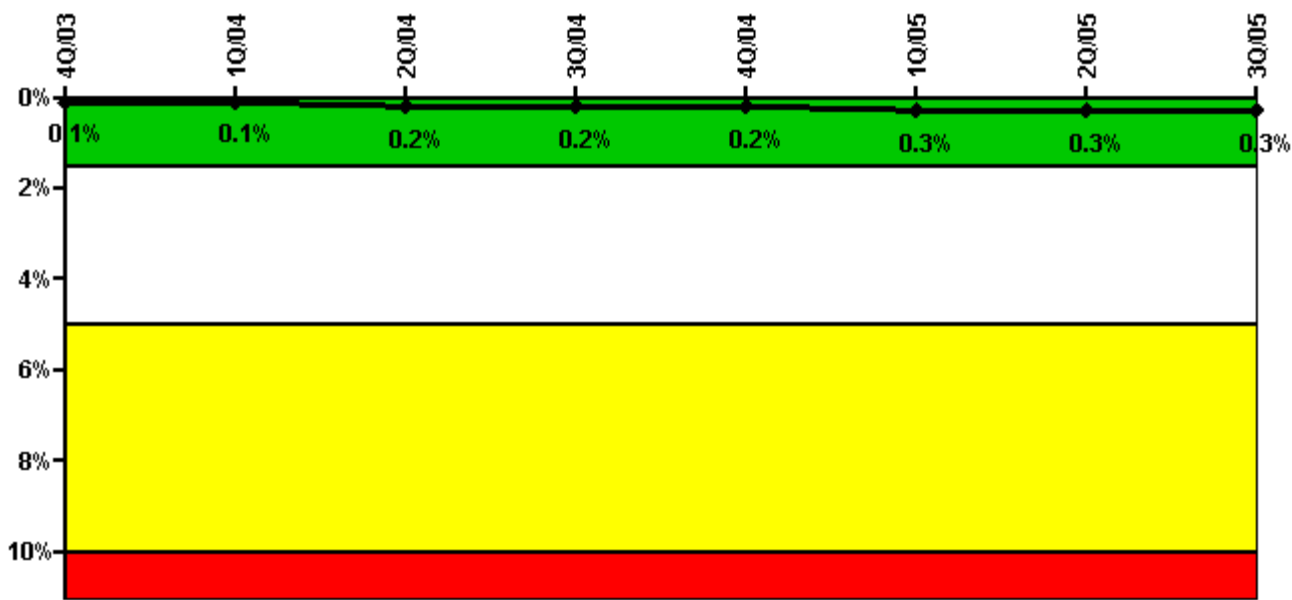
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	0	30.01	0	18.88	25.83	17.85	4.25	29.81
Unplanned unavailable hours	0	0	0	0	0.50	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	25.52	17.73	0	43.69	22.97	25.03	9.55	12.43
Unplanned unavailable hours	0	0	0	0	0.50	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	22.90	8.00	14.11	0	45.00	12.70	7.25	21.18
Unplanned unavailable hours	0	0	0	0	28.36	0	0	0
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	1.4%	1.2%	0.9%	0.8%	0.9%	0.9%	0.9%	0.9%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



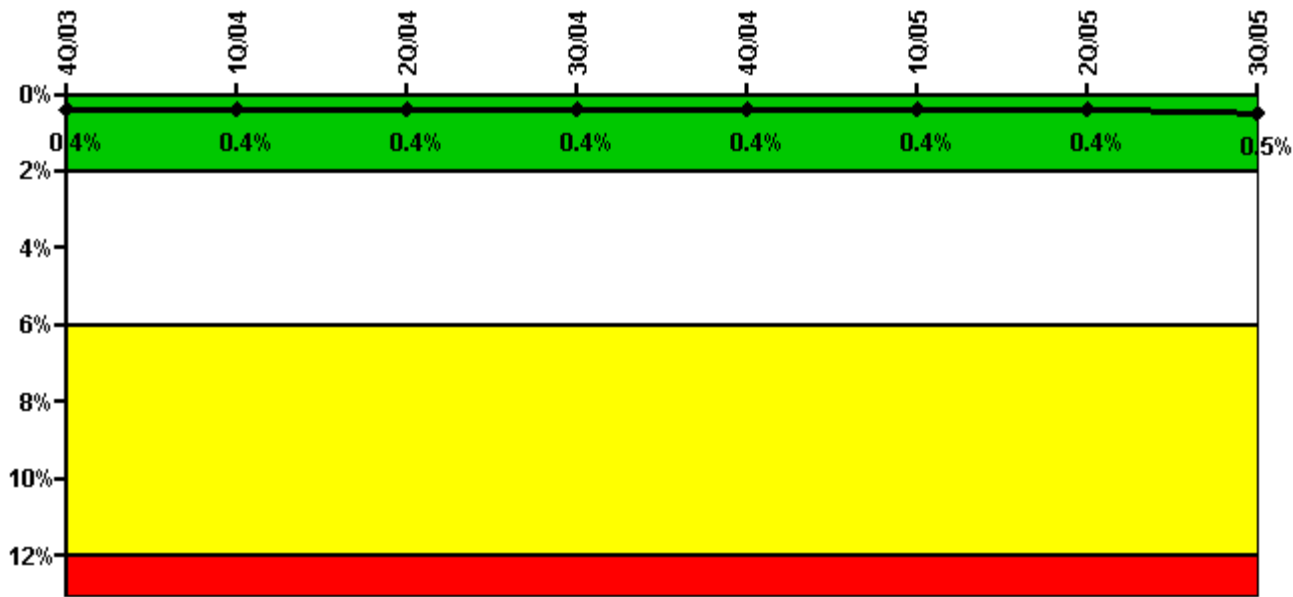
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	0	0	16.20	0	0	11.00	0.53	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	1480.20	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	3.00	2.57	16.56	0.25	13.25	0.67	8.32	0.33
Unplanned unavailable hours	4.50	0	0	0	0	0	0	0
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	1480.20	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	2.00	8.65	0	18.00	0.18	16.91	5.46	0
Unplanned unavailable hours	6.00	0	0	0	0	36.50	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1480.20	2160.00	2183.00	2208.00
Indicator value	0.1%	0.1%	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	13.60	12.00	2.97	6.32	2.68	26.63	19.67	15.68
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	2209.00	2184.00	2183.00	2208.00	1480.20	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	4.30	7.11	11.51	23.68	2.20	12.20	4.12	10.78
Unplanned unavailable hours	7.27	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	2184.00	2183.00	2208.00	1480.20	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	11.60	4.70	9.32	0.55	4.63	20.43	2.83	16.56
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	1480.20	2160.00	2183.00	2208.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.5%

Licensee Comments: none

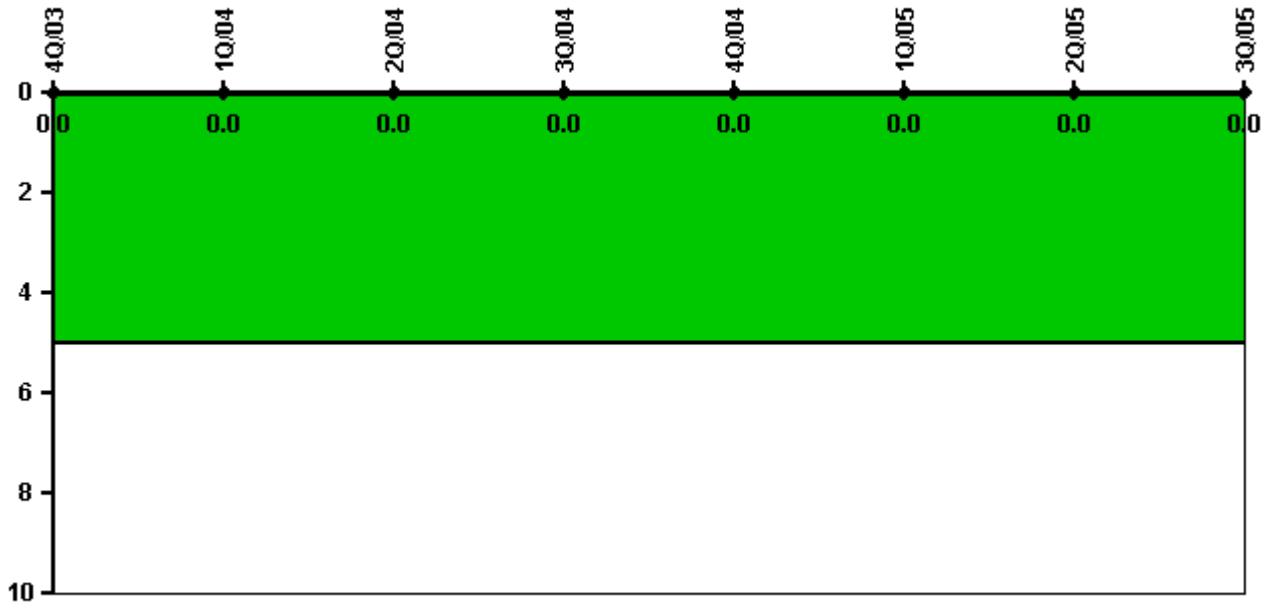
The chart displays the distribution of the number of non-zero elements in the matrix A for different problem sizes. The x-axis represents the number of non-zero elements (log scale: 4Q/03, 1Q/04, 2Q/04, 3Q/04, 4Q/04, 1Q/05, 2Q/05, 3Q/05). The y-axis represents the percentage of matrices (0% to 10%). The chart is divided into three color-coded regions: green (0% to 1%), yellow (1% to 6%), and red (6% to 10%).

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

Notes

[illegible]

Licensee Comments: none

Safety System Functional Failures (PWR)

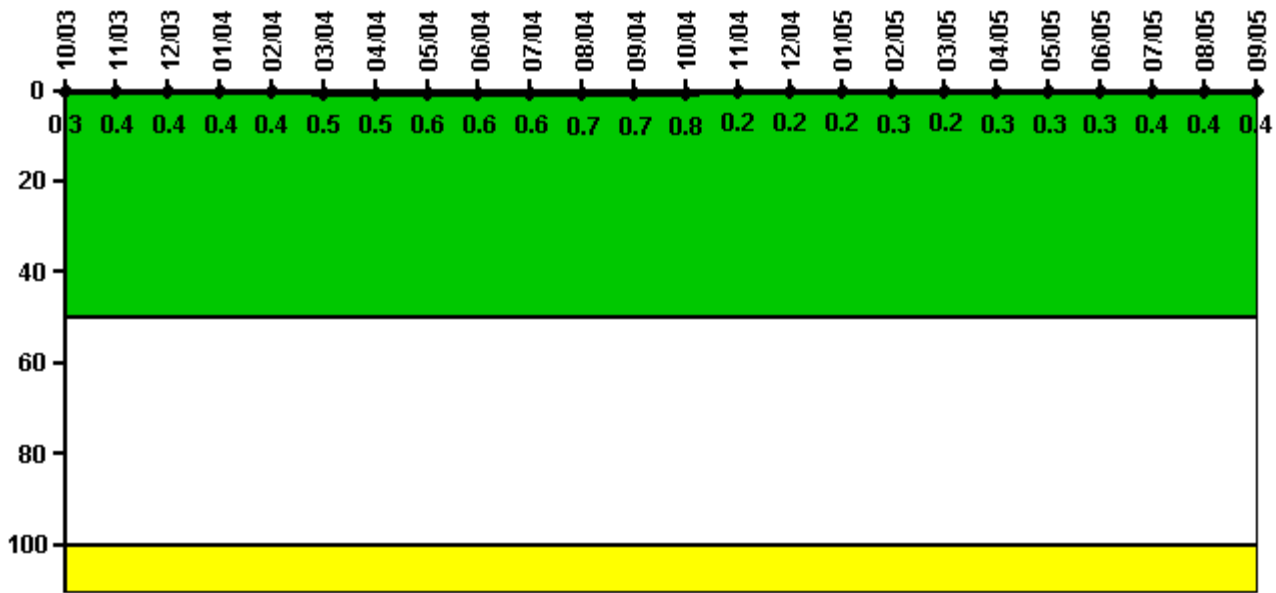
Thresholds: White > 5.0

Notes

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



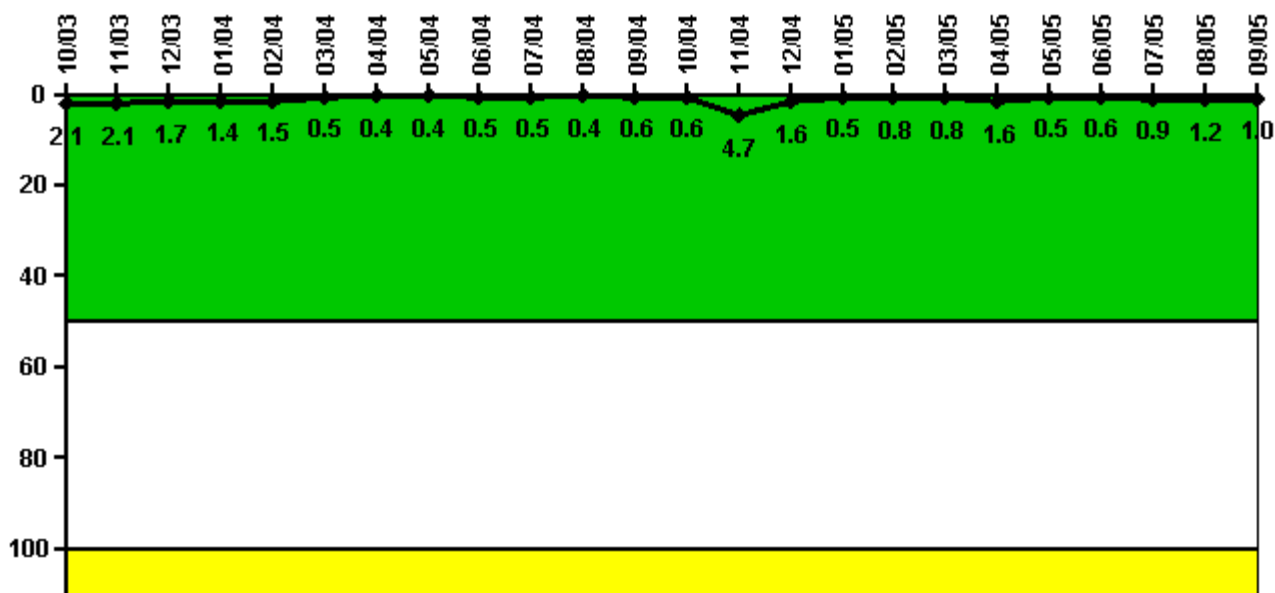
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum activity	0.003330	0.004160	0.004110	0.004230	0.004400	0.004620	0.005170	0.005510	0.005810	0.006250	0.006690	0.006880
Technical specification limit	1.0	1.0	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	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.7
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	0.007960	0.001550	0.002020	0.001870	0.003270	0.002140	0.002800	0.002630	0.003450	0.003840	0.004020	0.003970
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.8	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.4

Licensee Comments: none

Reactor Coolant System Leakage



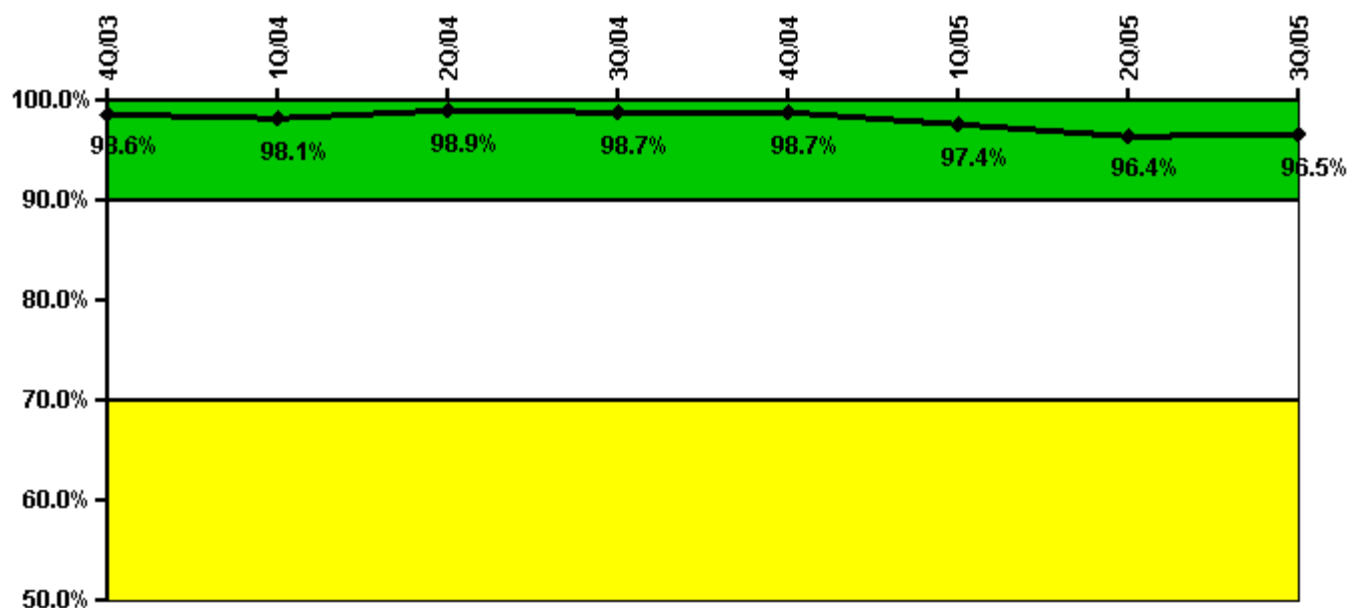
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	0.211	0.211	0.168	0.139	0.147	0.050	0.039	0.038	0.045	0.045	0.037	0.060
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.1	2.1	1.7	1.4	1.5	0.5	0.4	0.4	0.5	0.5	0.4	0.6
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	0.060	0.469	0.159	0.051	0.075	0.075	0.160	0.054	0.064	0.094	0.124	0.097
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.6	4.7	1.6	0.5	0.8	0.8	1.6	0.5	0.6	0.9	1.2	1.0

Licensee Comments: none

Drill/Exercise Performance



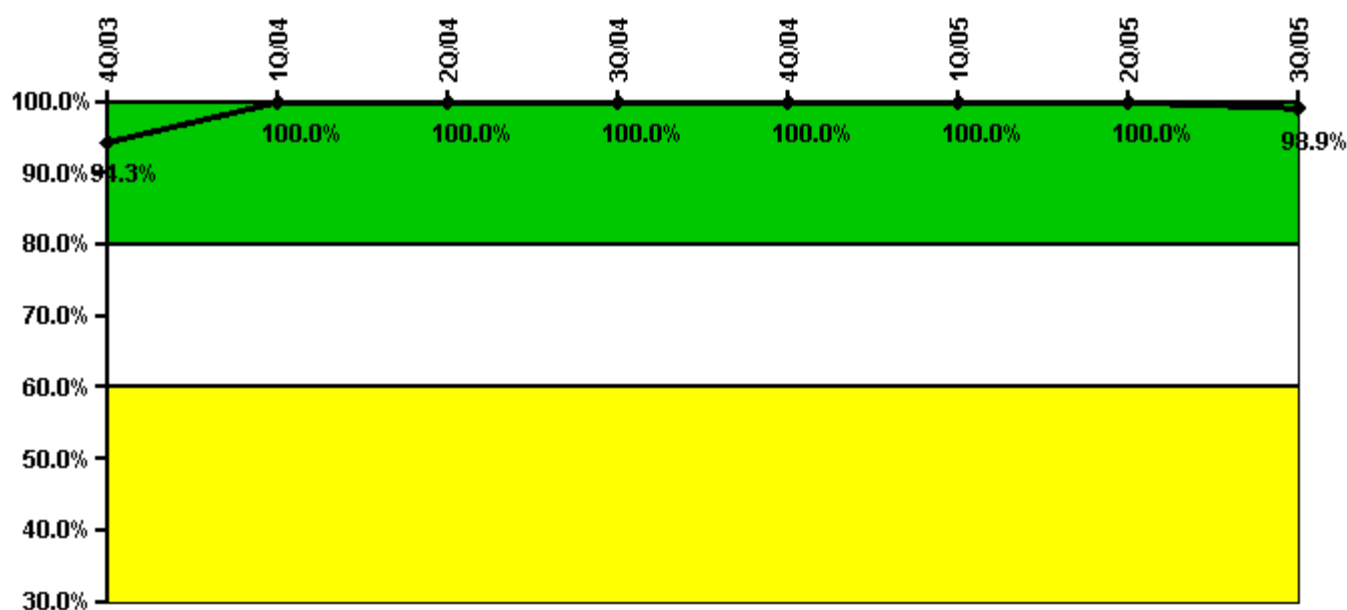
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Successful opportunities	24.0	21.0	46.0	19.0	0	12.0	17.0	27.0
Total opportunities	24.0	22.0	47.0	19.0	0	14.0	19.0	27.0
Indicator value	98.6%	98.1%	98.9%	98.7%	98.7%	97.4%	96.4%	96.5%

Licensee Comments: none

ERO Drill Participation



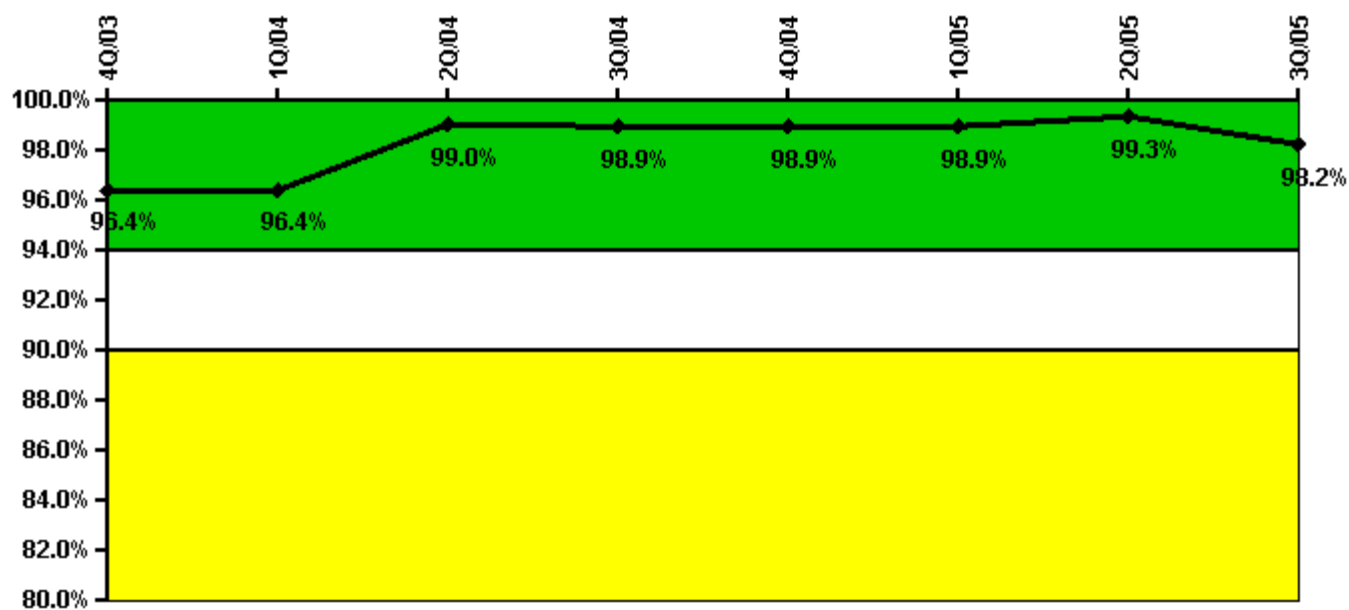
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Participating Key personnel	50.0	54.0	59.0	59.0	60.0	57.0	95.0	93.0
Total Key personnel	53.0	54.0	59.0	59.0	60.0	57.0	95.0	94.0
Indicator value	94.3%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.9%

Licensee Comments: none

Alert & Notification System



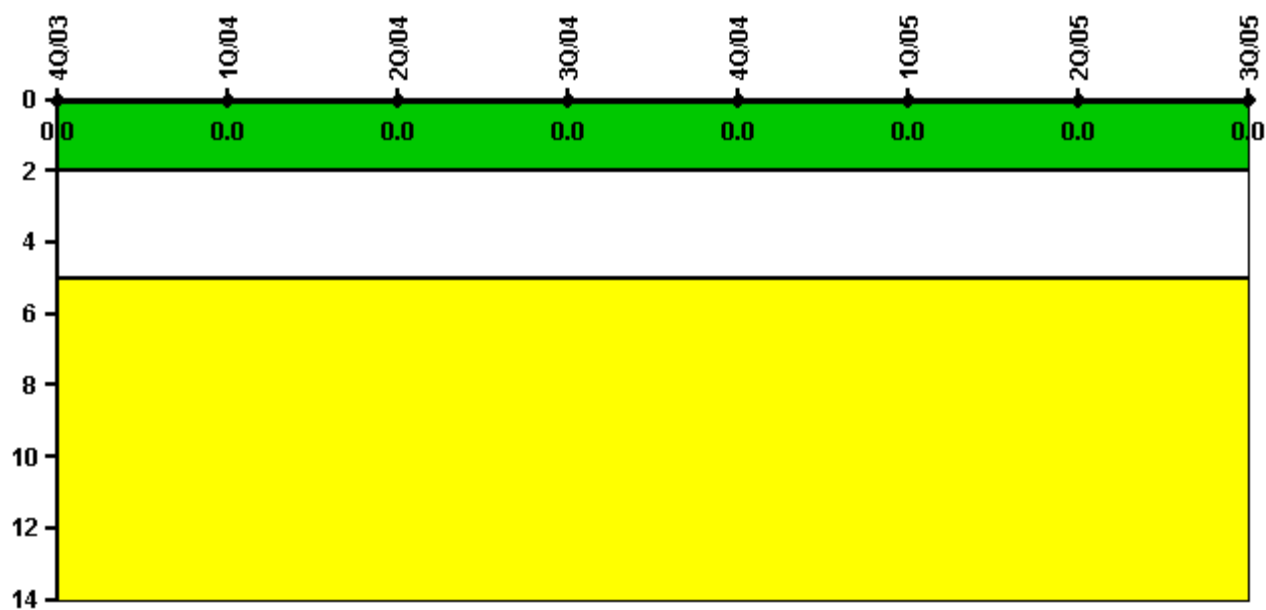
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Successful siren-tests	1224	1070	1217	1233	954	1134	1014	1164
Total sirens-tests	1232	1078	1241	1244	962	1143	1015	1225
Indicator value	96.4%	96.4%	99.0%	98.9%	98.9%	98.9%	99.3%	98.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness



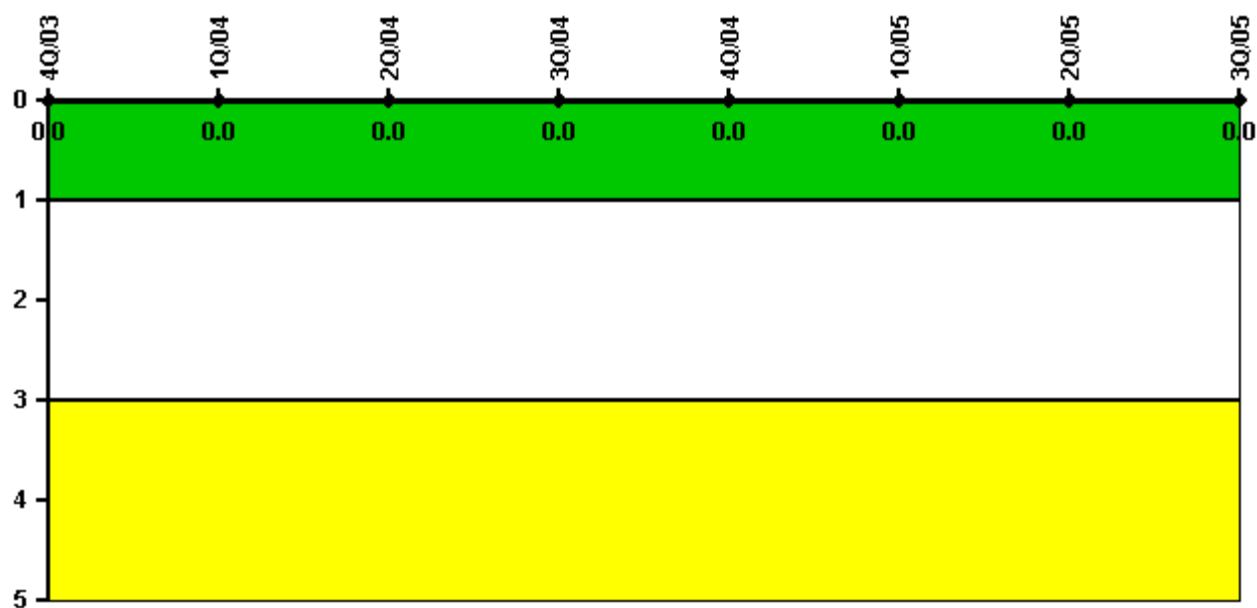
Thresholds: White > 2.0 Yellow > 5.0

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.

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

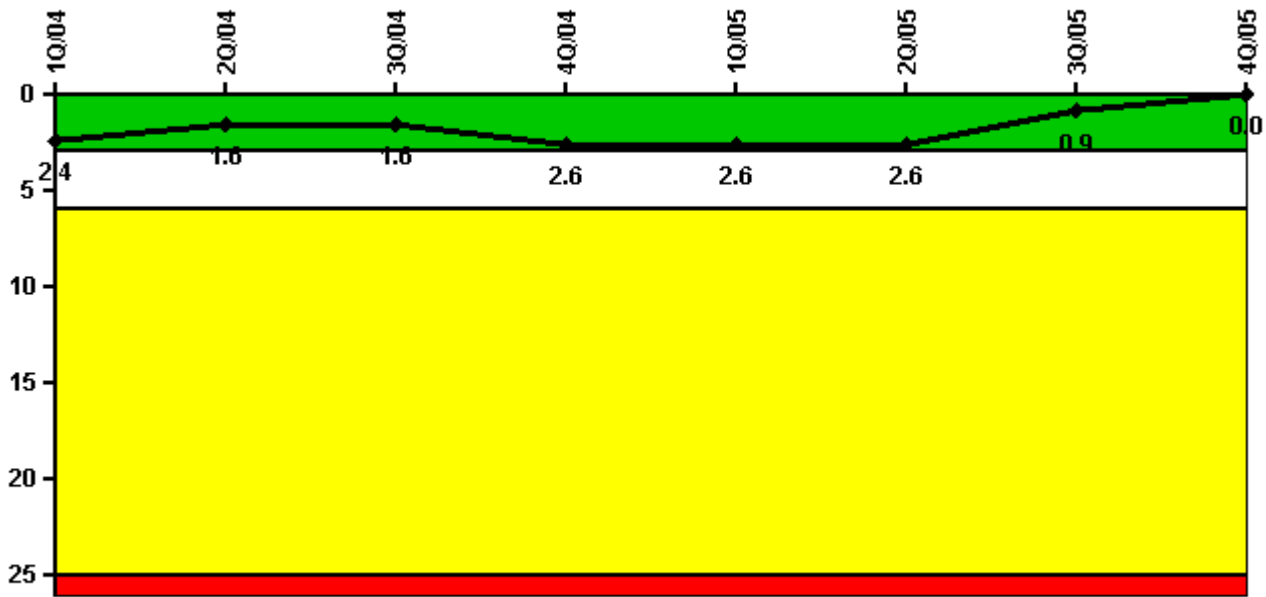
Last Modified: November 3, 2005

Indian Point 2

4Q/2005 Performance Indicators

Licensee's General Comments: PI IE03 Unplanned Power Changes: On December 22, 2005, a unplanned power change was required to repair the packing leak on the 24 steam generator feedwater regulating valve (FCV-447). The PI remained within the Green band.

Unplanned Scrams per 7000 Critical Hrs



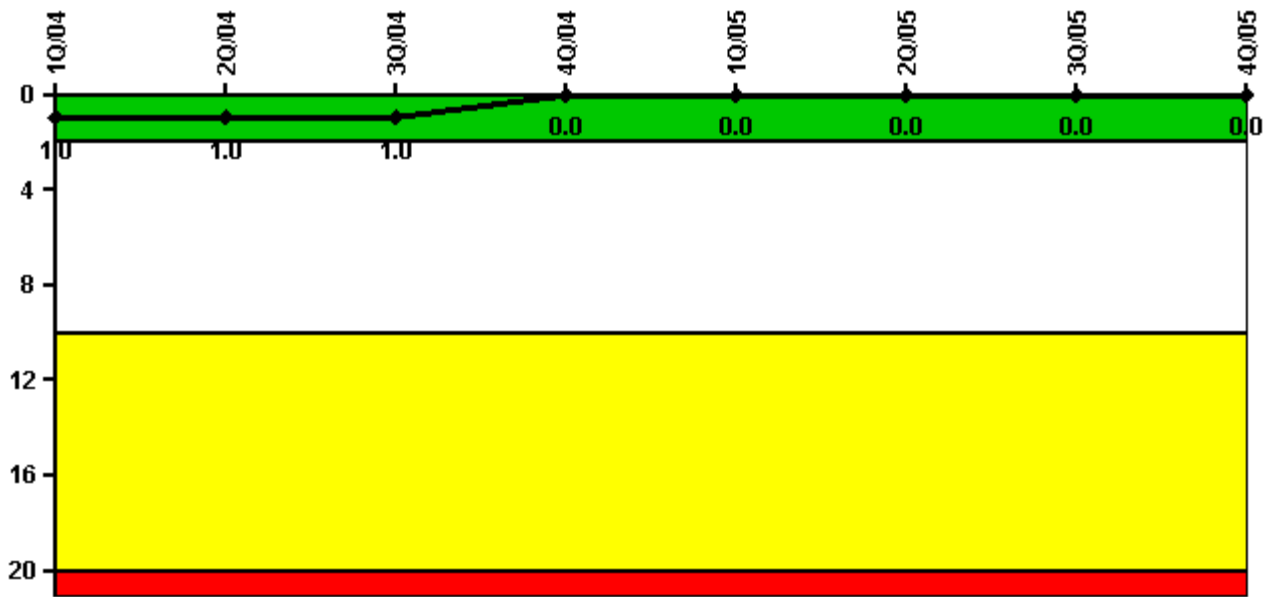
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	2.0	1.0	0	0	0	0
Critical hours	2184.0	2183.0	2147.4	1480.2	2160.0	2183.0	2208.0	2209.0
Indicator value	2.4	1.6	1.6	2.6	2.6	2.6	0.9	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



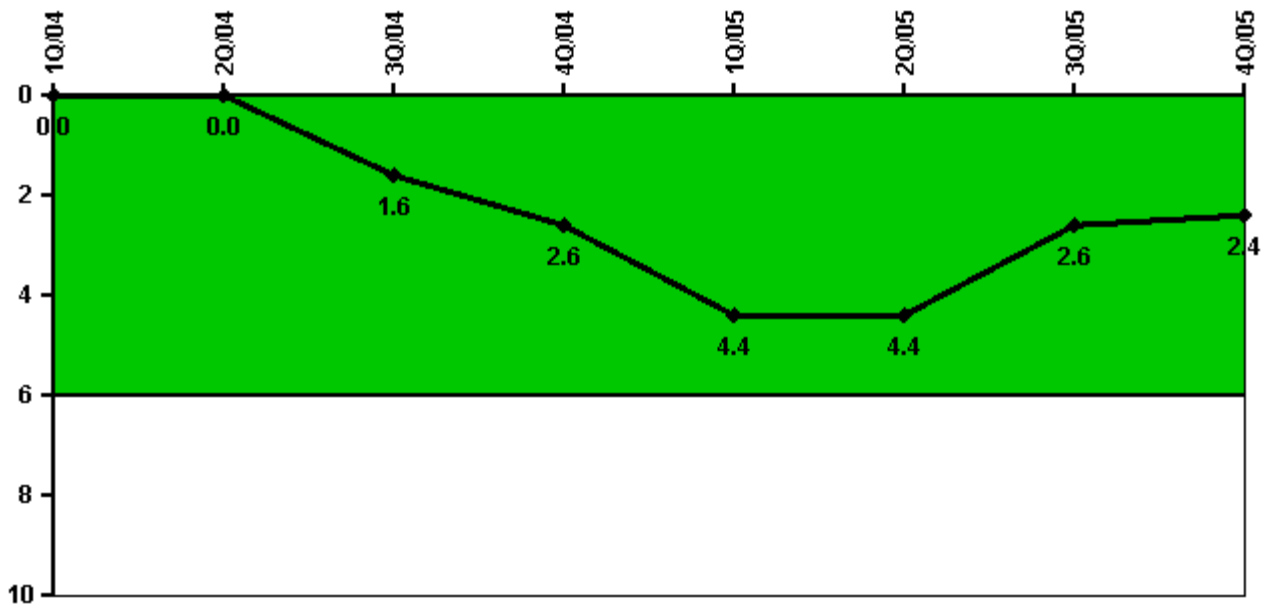
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



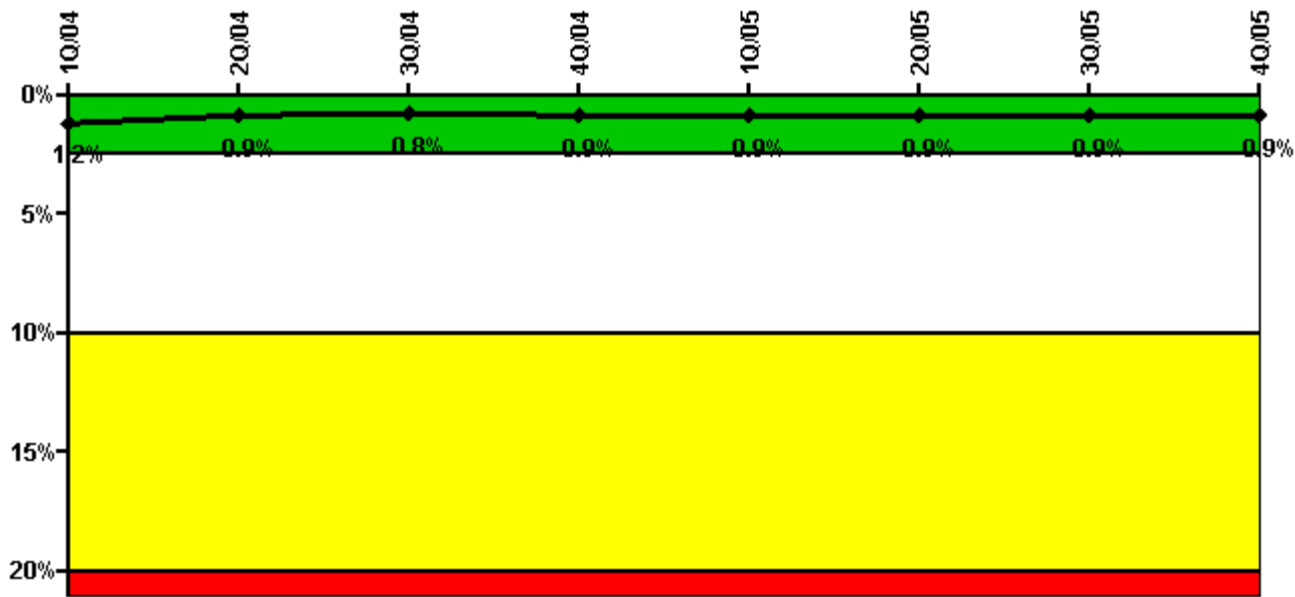
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned power changes	0	0	2.0	1.0	2.0	0	0	1.0
Critical hours	2184.0	2183.0	2147.4	1480.2	2160.0	2183.0	2208.0	2209.0
Indicator value	0	0	1.6	2.6	4.4	4.4	2.6	2.4

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



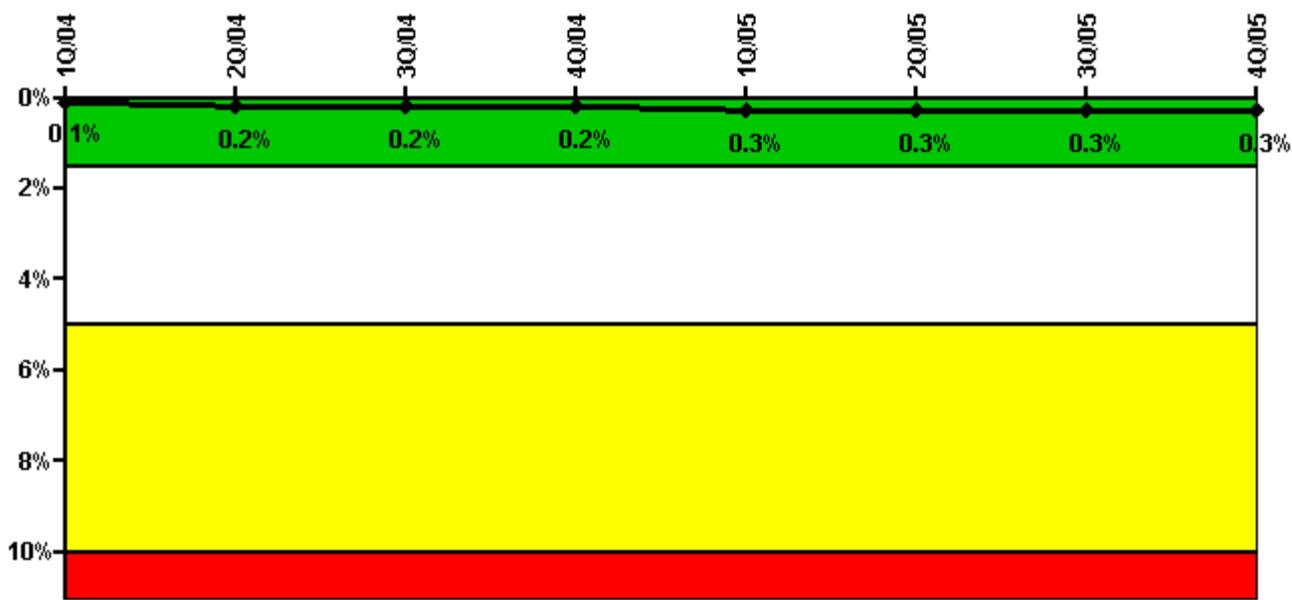
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	30.01	0	18.88	25.83	17.85	4.25	29.81	17.86
Unplanned unavailable hours	0	0	0	0.50	0	0	0	2.14
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	17.73	0	43.69	22.97	25.03	9.55	12.43	0
Unplanned unavailable hours	0	0	0	0.50	0	0	0	2.14
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	8.00	14.11	0	45.00	12.70	7.25	21.18	0
Unplanned unavailable hours	0	0	0	28.36	0	0	0	18.47
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%	0.9%	0.8%	0.9%	0.9%	0.9%	0.9%	0.9%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



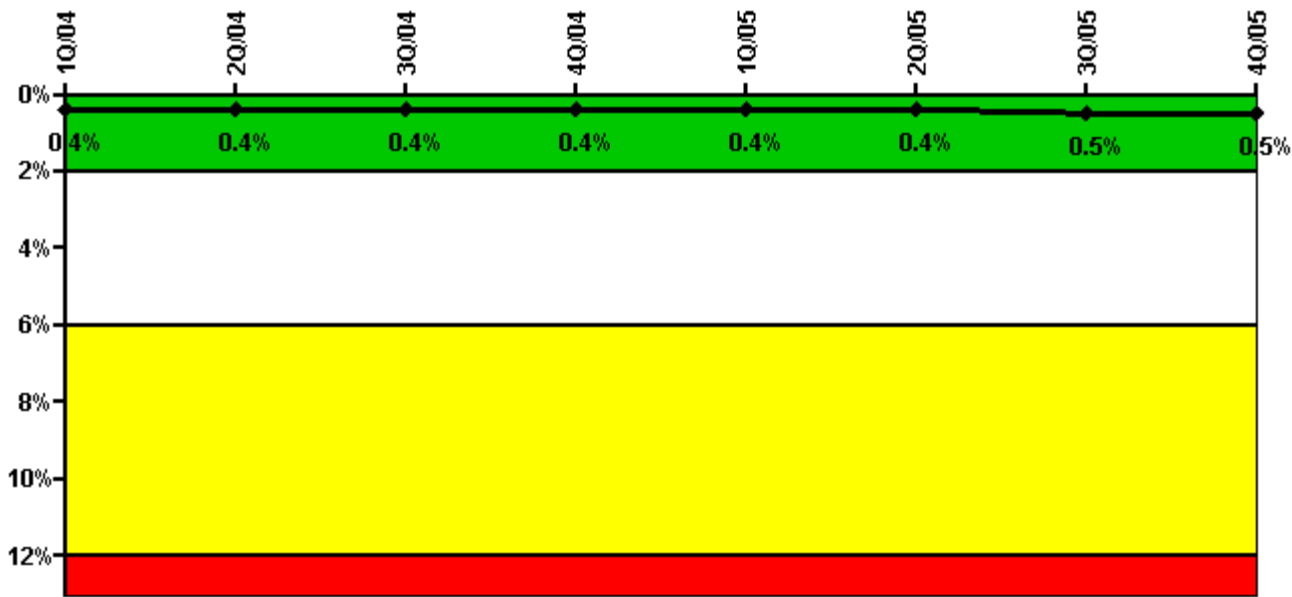
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	0	16.20	0	0	11.00	0.53	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	1480.20	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	2.57	16.56	0.25	13.25	0.67	8.32	0.33	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	1480.20	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	8.65	0	18.00	0.18	16.91	5.46	0	0.32
Unplanned unavailable hours	0	0	0	0	36.50	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1480.20	2160.00	2183.00	2208.00	2209.00
Indicator value	0.1%	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)



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

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	12.00	2.97	6.32	2.68	26.63	19.67	15.68	1.44
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1480.20	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	7.11	11.51	23.68	2.20	12.20	4.12	10.78	16.78
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1480.20	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	4.70	9.32	0.55	4.63	20.43	2.83	16.56	1.00
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	1480.20	2160.00	2183.00	2208.00	2209.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.4%	0.5%	0.5%

Licensee Comments: none

The chart displays the distribution of the number of non-zero elements in the upper triangular part of the matrix. The x-axis represents the number of non-zero elements, ranging from 0 to 40,005. The y-axis represents the percentage of matrices, ranging from 0% to 10%.

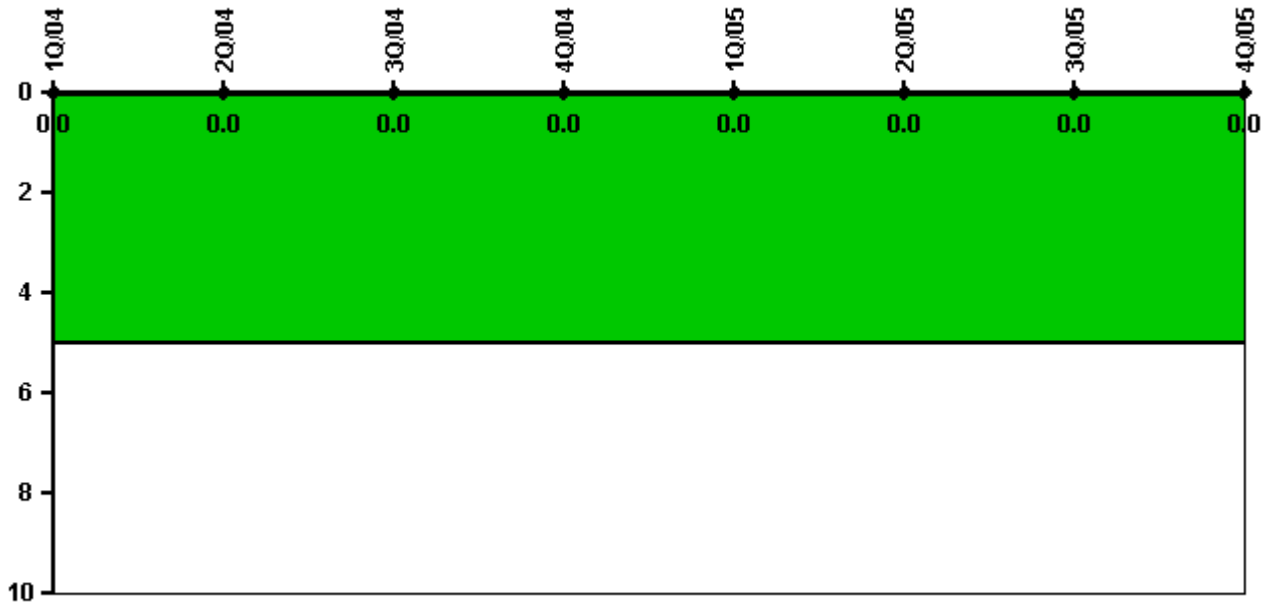
The distribution is divided into three colored regions:

- Green Region (0% to 0.1%):** This region represents the lowest percentage of matrices, with a maximum of 0.1%.
- Yellow Region (0.1% to 6%):** This region represents the middle percentage of matrices, ranging from 0.1% to 6%.
- Red Region (6% to 10%):** This region represents the highest percentage of matrices, ranging from 6% to 10%.

Notes

[illegible]

Licensee Comments: none

Safety System Functional Failures (PWR)

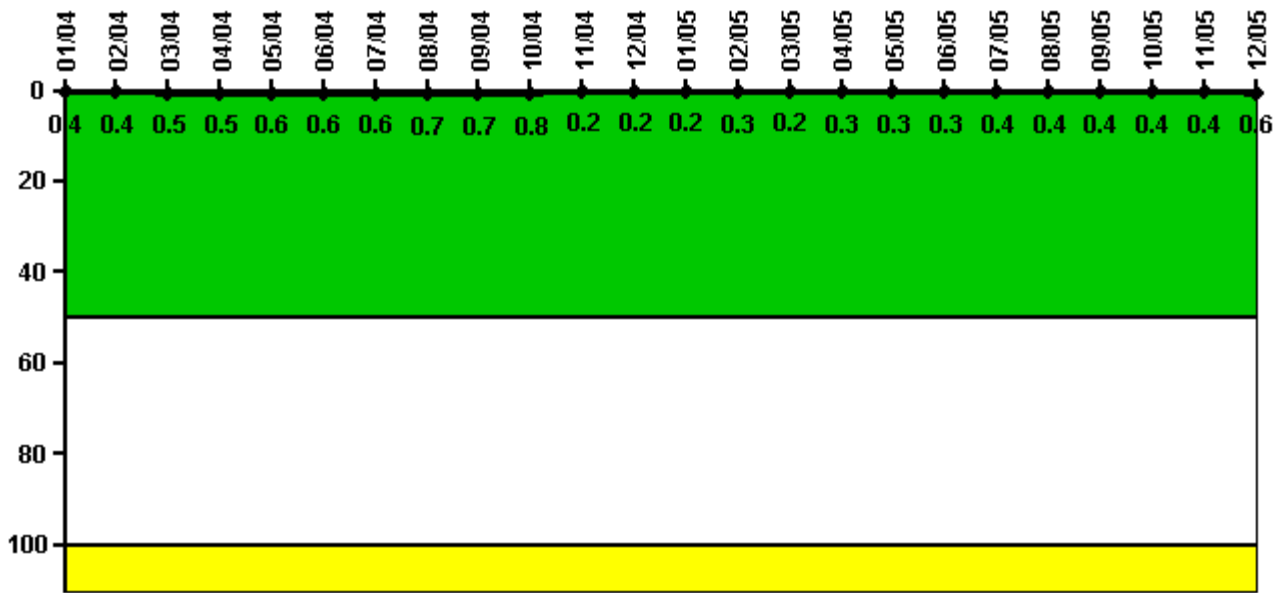
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



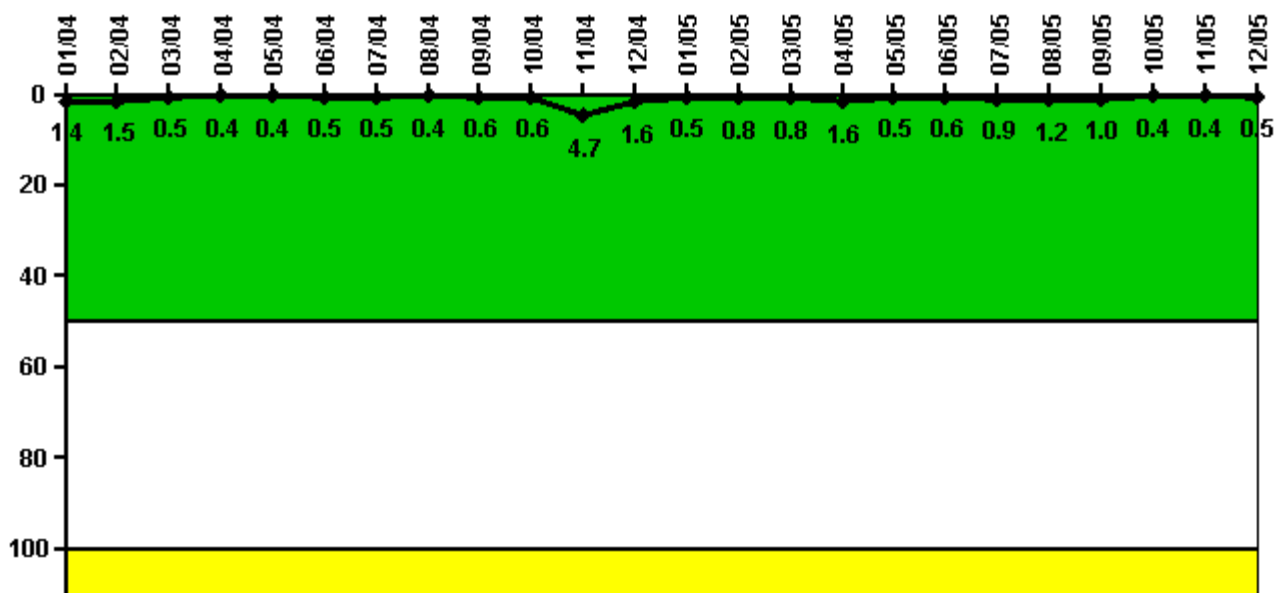
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum activity	0.004230	0.004400	0.004620	0.005170	0.005510	0.005810	0.006250	0.006690	0.006880	0.007960	0.001550	0.002020
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.2	0.2
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	0.001870	0.003270	0.002140	0.002800	0.002630	0.003450	0.003840	0.004020	0.003970	0.004350	0.004420	0.005530
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.6

Licensee Comments: none

Reactor Coolant System Leakage



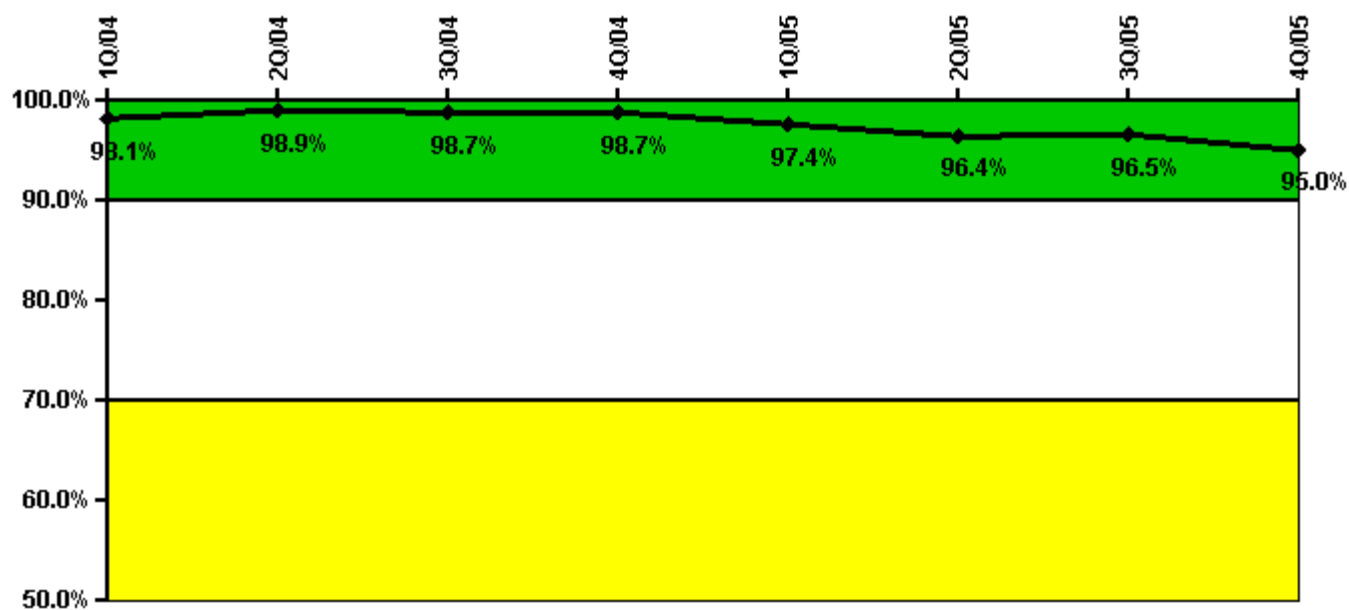
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.139	0.147	0.050	0.039	0.038	0.045	0.045	0.037	0.060	0.060	0.469	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	1.4	1.5	0.5	0.4	0.4	0.5	0.5	0.4	0.6	0.6	4.7	1.6
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	0.051	0.075	0.075	0.160	0.054	0.064	0.094	0.124	0.097	0.036	0.035	0.054
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.5	0.8	0.8	1.6	0.5	0.6	0.9	1.2	1.0	0.4	0.4	0.5

Licensee Comments: none

Drill/Exercise Performance



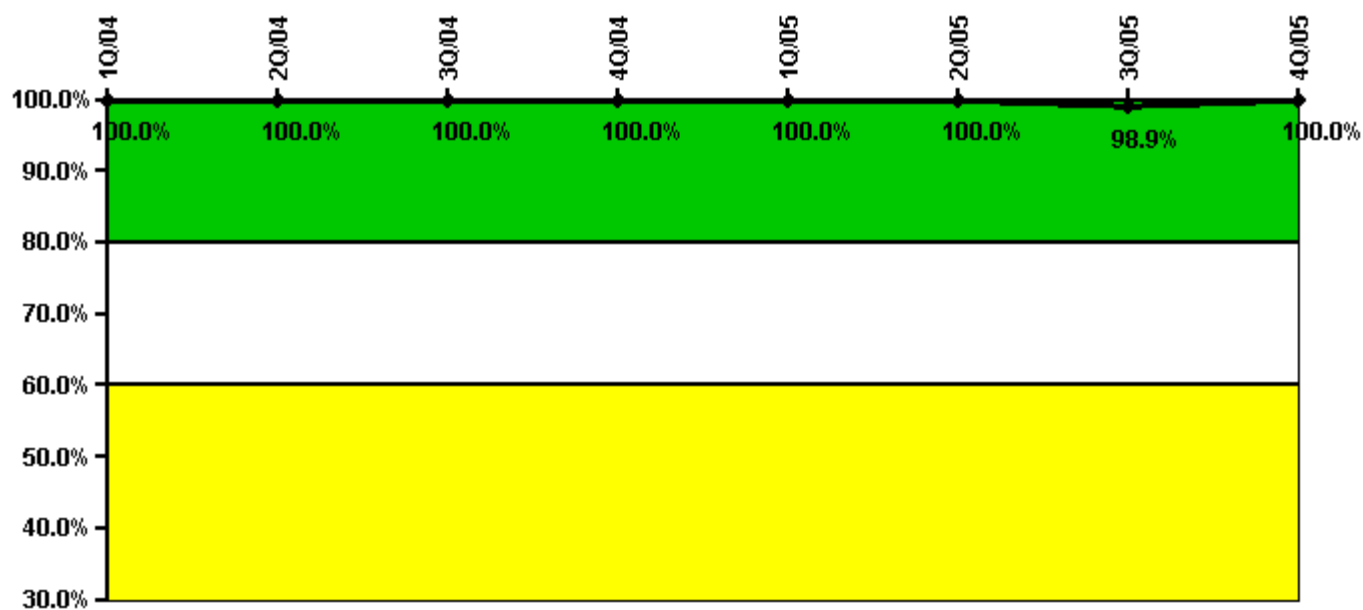
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful opportunities	21.0	46.0	19.0	0	12.0	17.0	27.0	11.0
Total opportunities	22.0	47.0	19.0	0	14.0	19.0	27.0	13.0
Indicator value	98.1%	98.9%	98.7%	98.7%	97.4%	96.4%	96.5%	95.0%

Licensee Comments: none

ERO Drill Participation



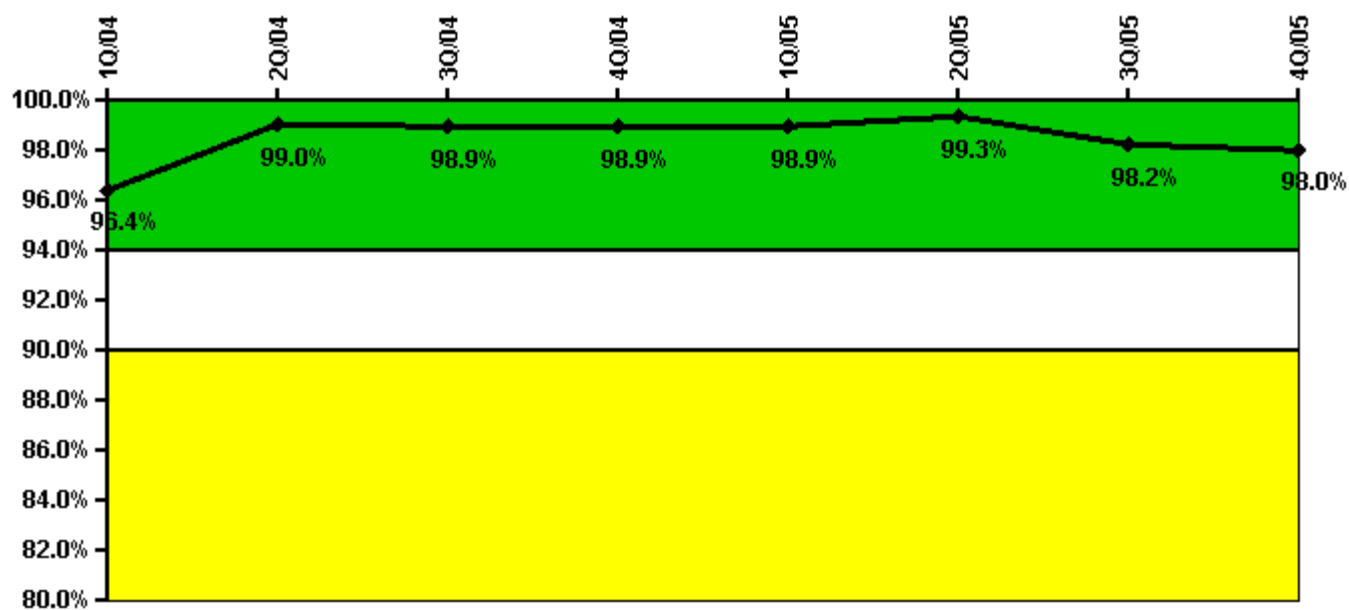
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Participating Key personnel	54.0	59.0	59.0	60.0	57.0	95.0	93.0	94.0
Total Key personnel	54.0	59.0	59.0	60.0	57.0	95.0	94.0	94.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.9%	100.0%

Licensee Comments: none

Alert & Notification System



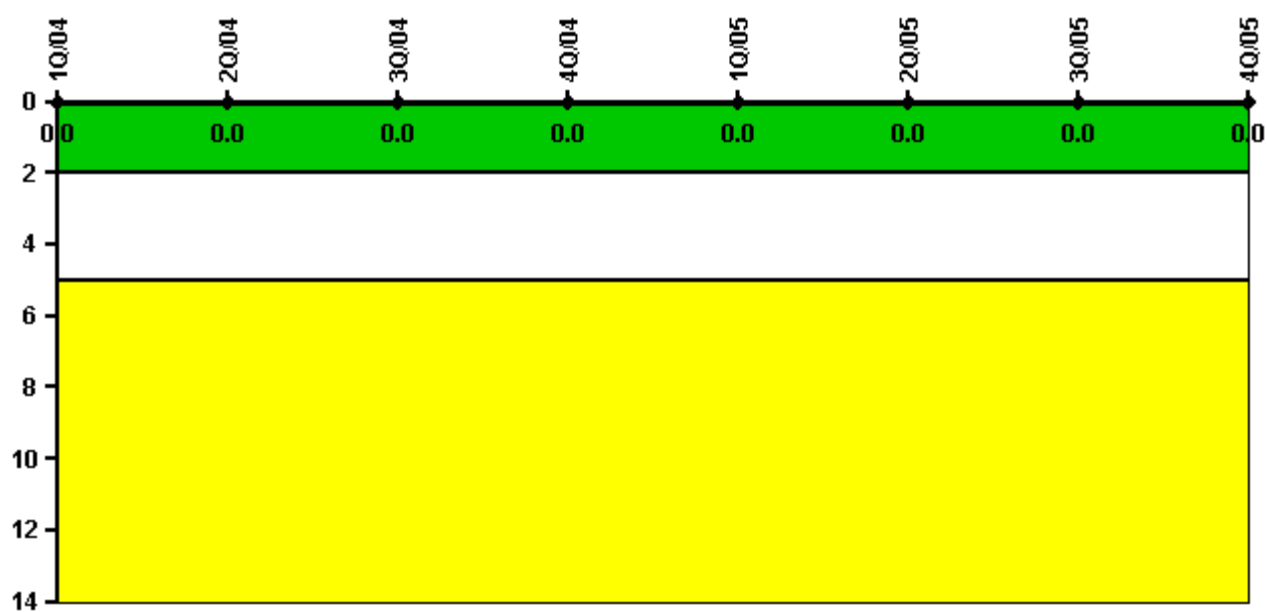
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful siren-tests	1070	1217	1233	954	1134	1014	1164	992
Total sirens-tests	1078	1241	1244	962	1143	1015	1225	1009
Indicator value	96.4%	99.0%	98.9%	98.9%	98.9%	99.3%	98.2%	98.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



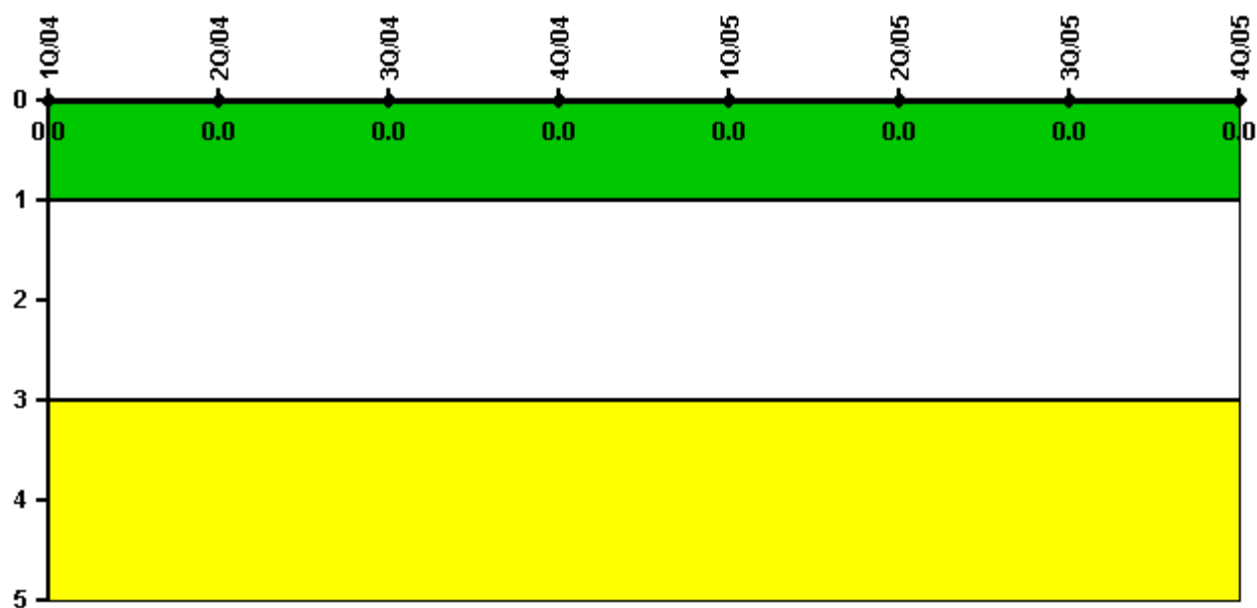
Thresholds: White > 2.0 Yellow > 5.0

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

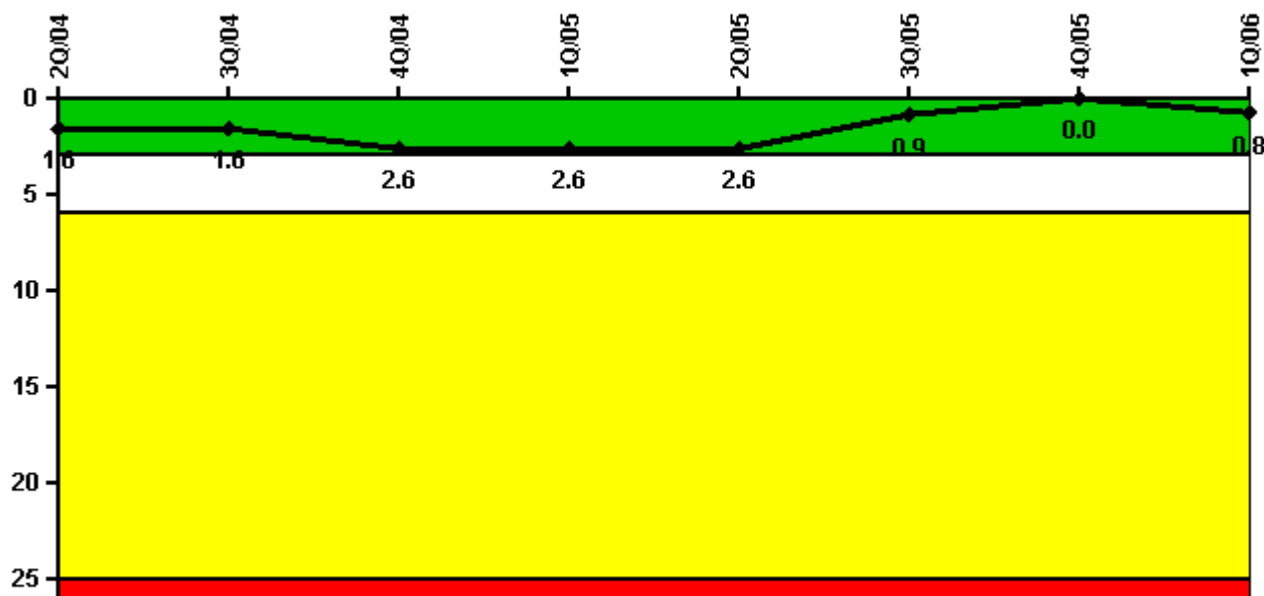
[Physical Protection](#) information not publicly available.

Indian Point 2

1Q/2006 Performance Indicators

Licensee's General Comments: On March 1, 2006, a manual reactor trip was initiated due to 12 of 53 control rods dropping into the core. The direct cause of the dropped rods was loss of power to the control rods that dropped. The cause of the power loss was human error as a result of an inadvertent bump of the disconnect switch for the rod control power cabinet during scaffold erection.

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	2.0	1.0	0	0	0	0	1.0
Critical hours	2183.0	2147.4	1480.2	2160.0	2183.0	2208.0	2209.0	2148.6
Indicator value	1.6	1.6	2.6	2.6	2.6	0.9	0	0.8

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



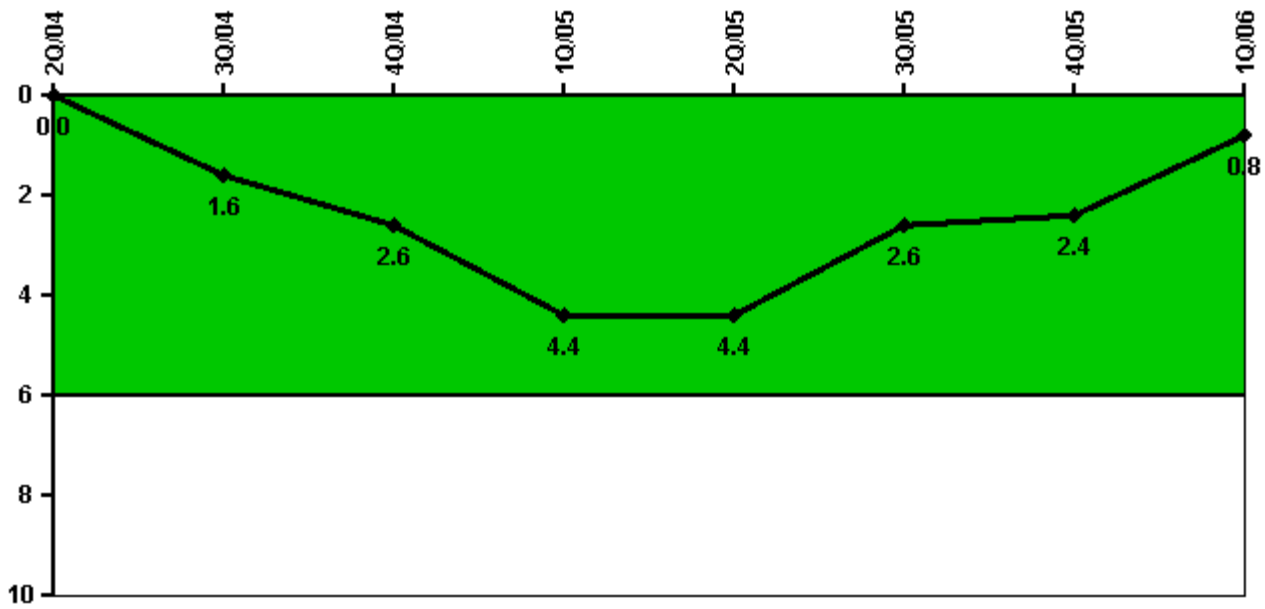
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



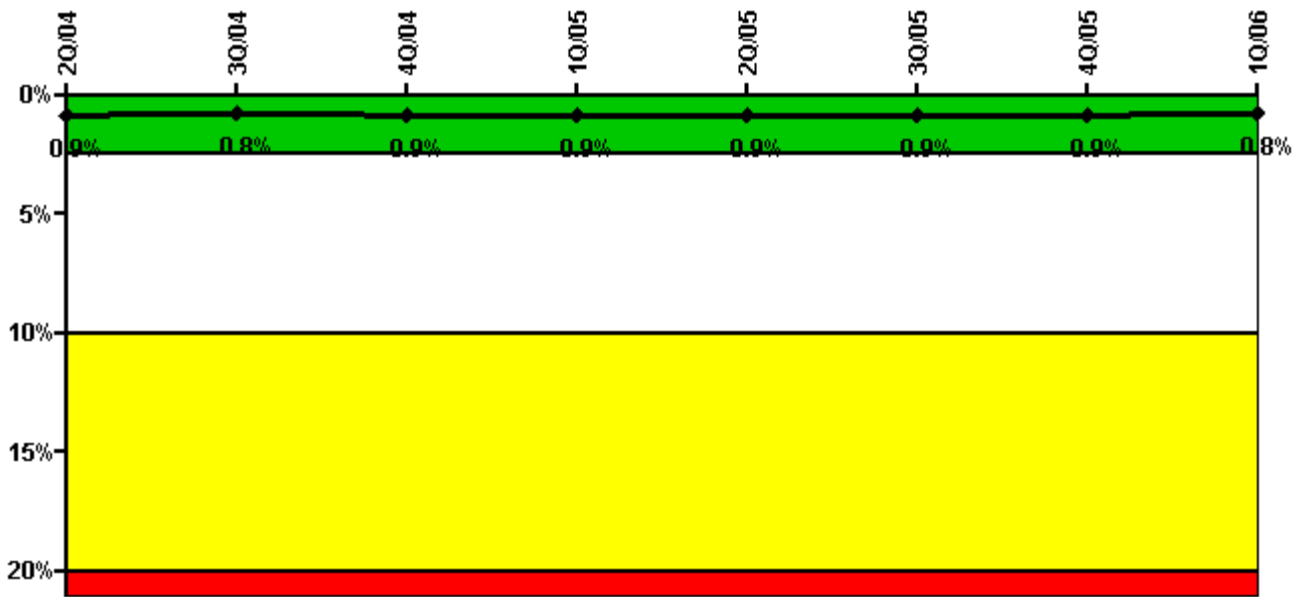
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned power changes	0	2.0	1.0	2.0	0	0	1.0	0
Critical hours	2183.0	2147.4	1480.2	2160.0	2183.0	2208.0	2209.0	2148.6
Indicator value	0	1.6	2.6	4.4	4.4	2.6	2.4	0.8

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



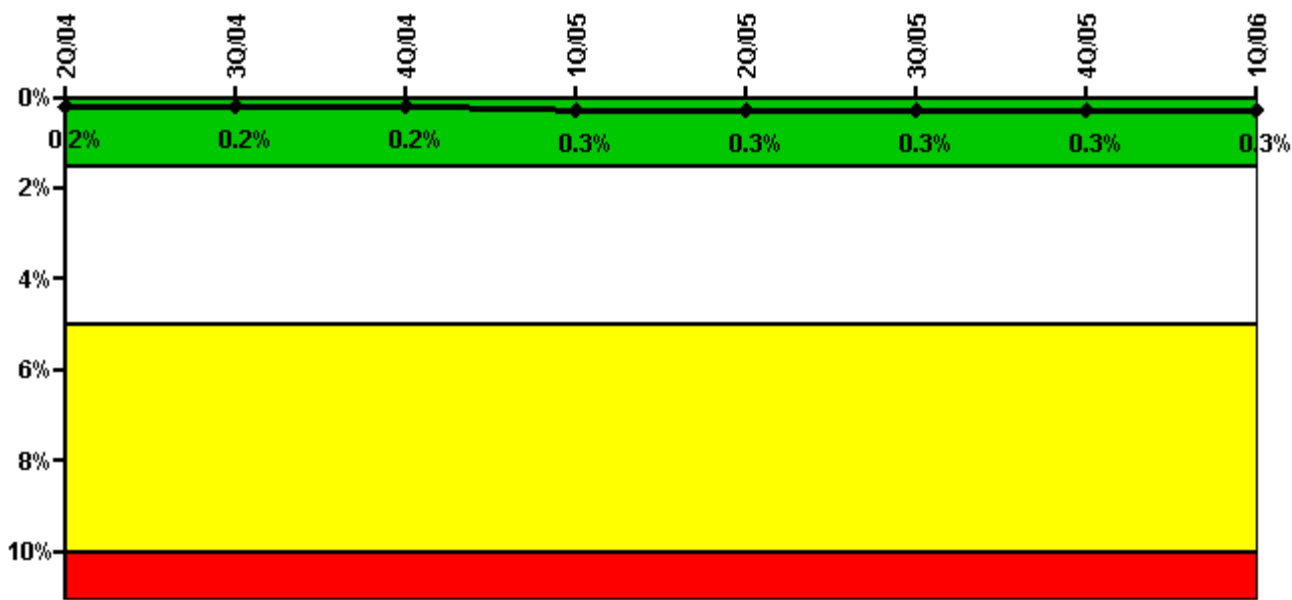
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	0	18.88	25.83	17.85	4.25	29.81	17.86	7.76
Unplanned unavailable hours	0	0	0.50	0	0	0	2.14	4.40
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	2160.00
Train 2								
Planned unavailable hours	0	43.69	22.97	25.03	9.55	12.43	0	10.95
Unplanned unavailable hours	0	0	0.50	0	0	0	2.14	4.40
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	2160.00
Train 3								
Planned unavailable hours	14.11	0	45.00	12.70	7.25	21.18	0	20.64
Unplanned unavailable hours	0	0	28.36	0	0	0	18.47	4.40
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	2160.00
Indicator value	0.9%	0.8%	0.9%	0.9%	0.9%	0.9%	0.9%	0.8%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)



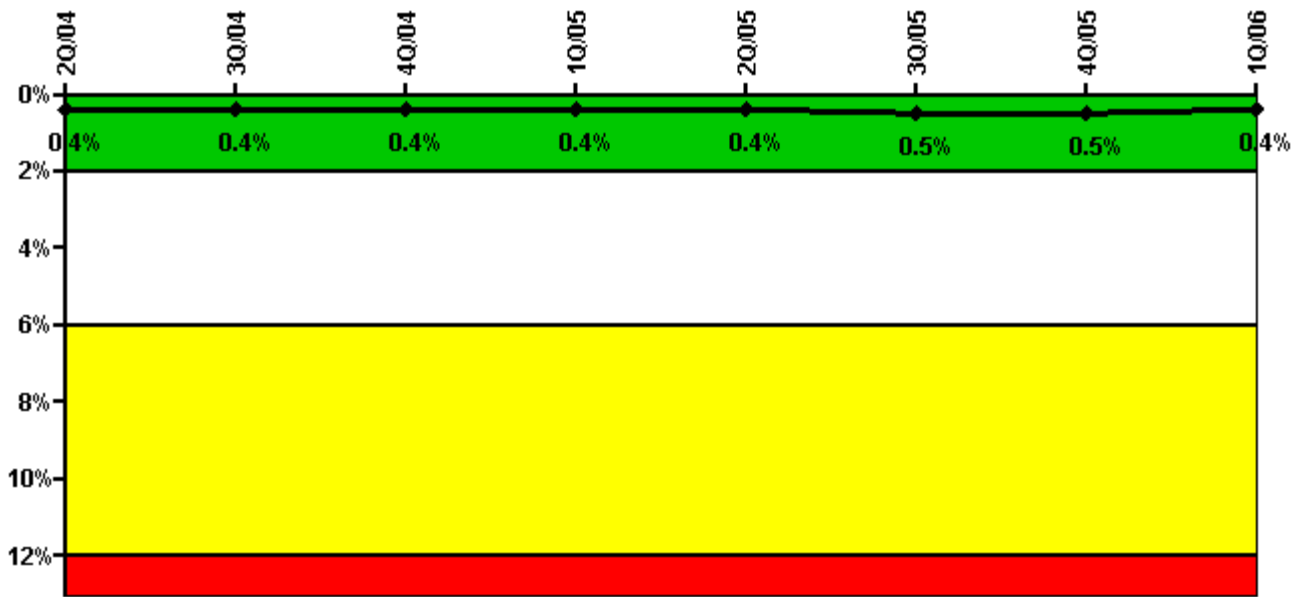
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	16.20	0	0	11.00	0.53	0	0	9.70
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1480.20	2160.00	2183.00	2208.00	2209.00	2149.00
Train 2								
Planned unavailable hours	16.56	0.25	13.25	0.67	8.32	0.33	0	2.30
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1480.20	2160.00	2183.00	2208.00	2209.00	2149.00
Train 3								
Planned unavailable hours	0	18.00	0.18	16.91	5.46	0	0.32	0
Unplanned unavailable hours	0	0	0	36.50	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1480.20	2160.00	2183.00	2208.00	2209.00	2149.00
Indicator value	0.2%	0.2%	0.2%	0.3%	0.3%	0.3%	0.3%	0.3%

Licensee Comments: none

Safety System Unavailability, 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	2.97	6.32	2.68	26.63	19.67	15.68	1.44	2.32
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1480.20	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	11.51	23.68	2.20	12.20	4.12	10.78	16.78	4.49
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1480.20	2160.00	2183.00	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	9.32	0.55	4.63	20.43	2.83	16.56	1.00	7.92
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1480.20	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	0.4%	0.4%	0.4%	0.4%	0.4%	0.5%	0.5%	0.4%

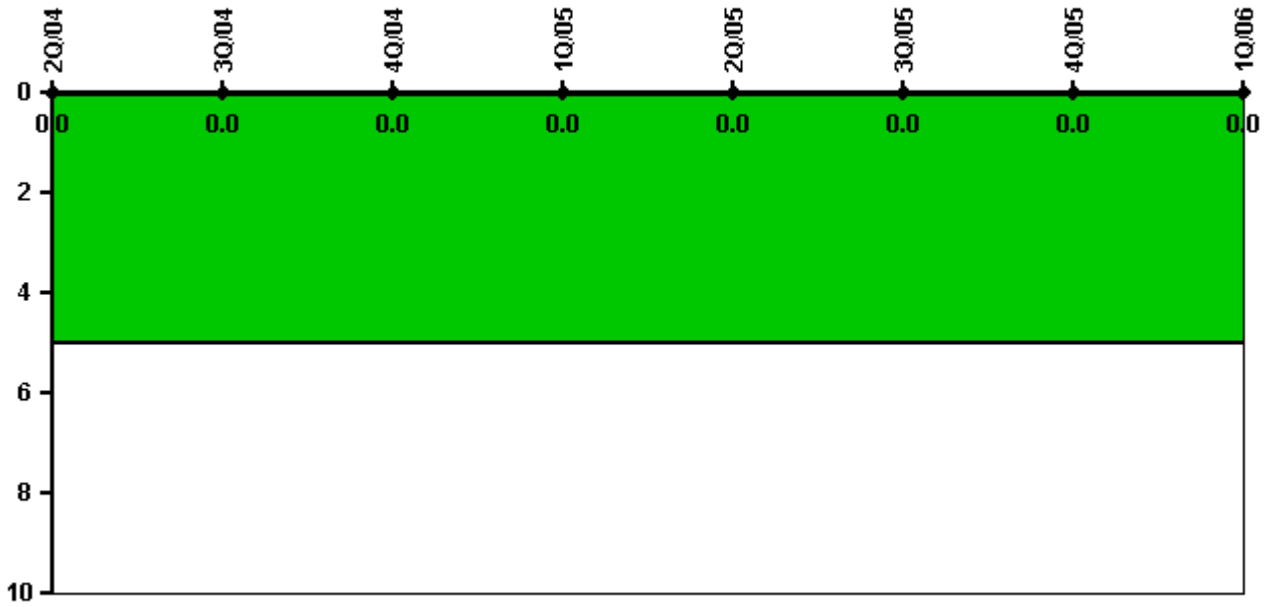
Licensee Comments: none

Number of Quarters Since Last Audit	Percentage of Companies
0	1%
1	0.1%
2	0.1%
3	0.1%
4	0.1%
5	0.1%
6	0.1%
7	0.1%
8	0.1%
9	0.1%
10	0.1%

Notes

[illegible]

Licensee Comments: none

Safety System Functional Failures (PWR)

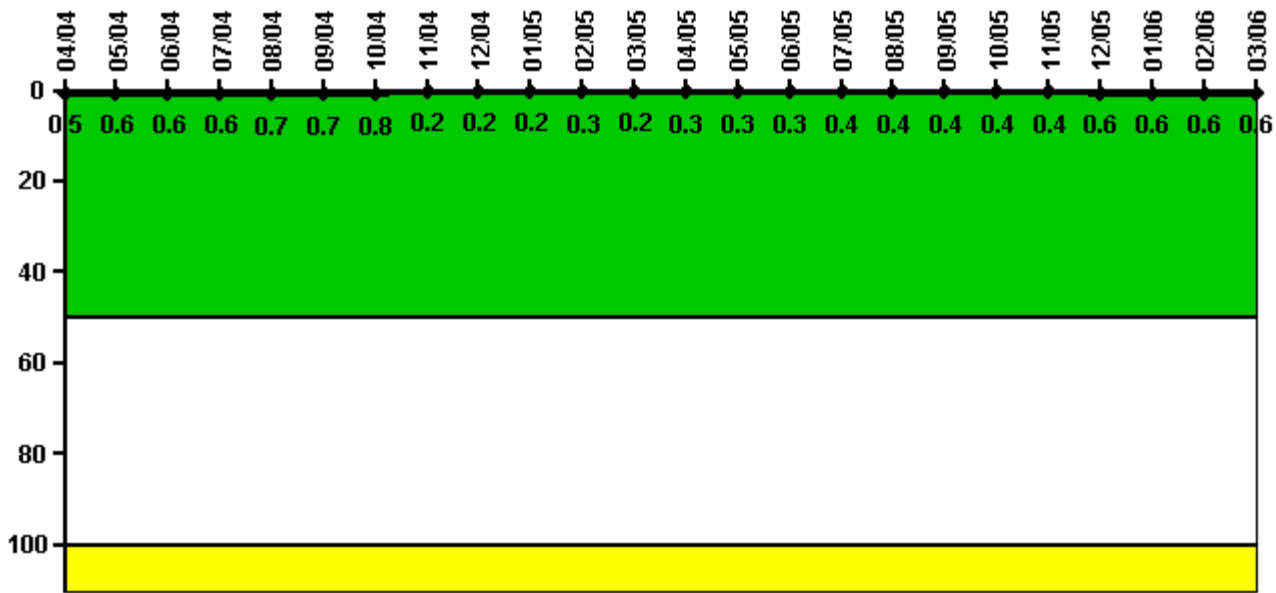
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



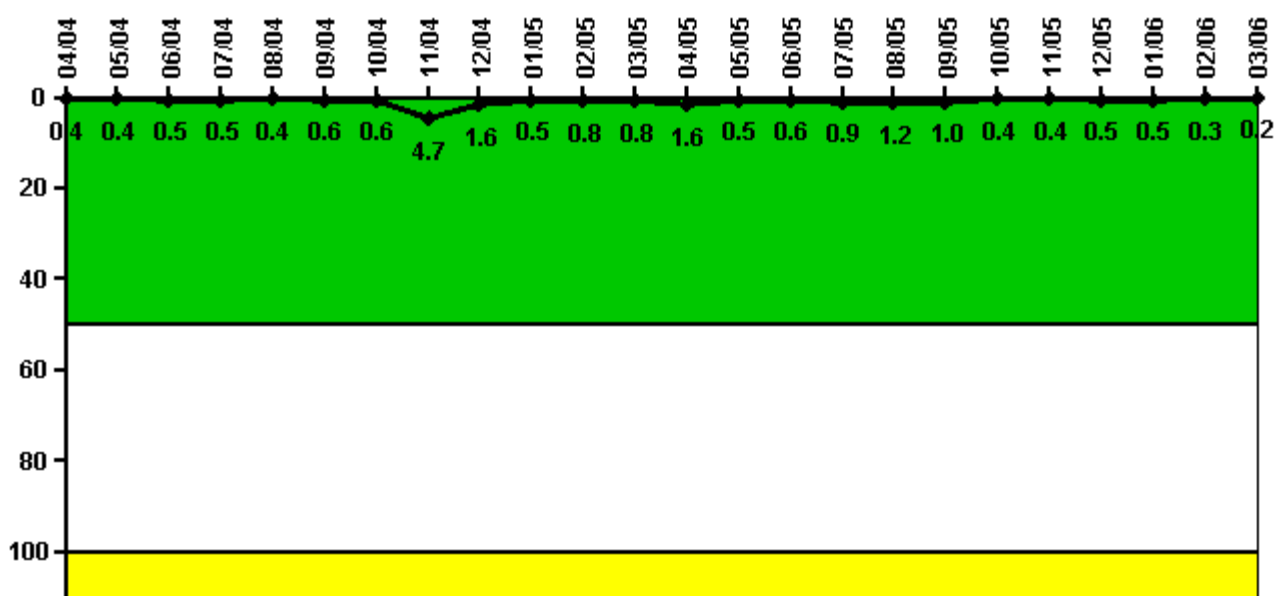
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05
Maximum activity	0.005170	0.005510	0.005810	0.006250	0.006690	0.006880	0.007960	0.001550	0.002020	0.001870	0.003270	0.002140
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.2	0.2	0.2	0.3	0.2
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	0.002800	0.002630	0.003450	0.003840	0.004020	0.003970	0.004350	0.004420	0.005530	0.005620	0.005750	0.005910
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6

Licensee Comments: none

Reactor Coolant System Leakage



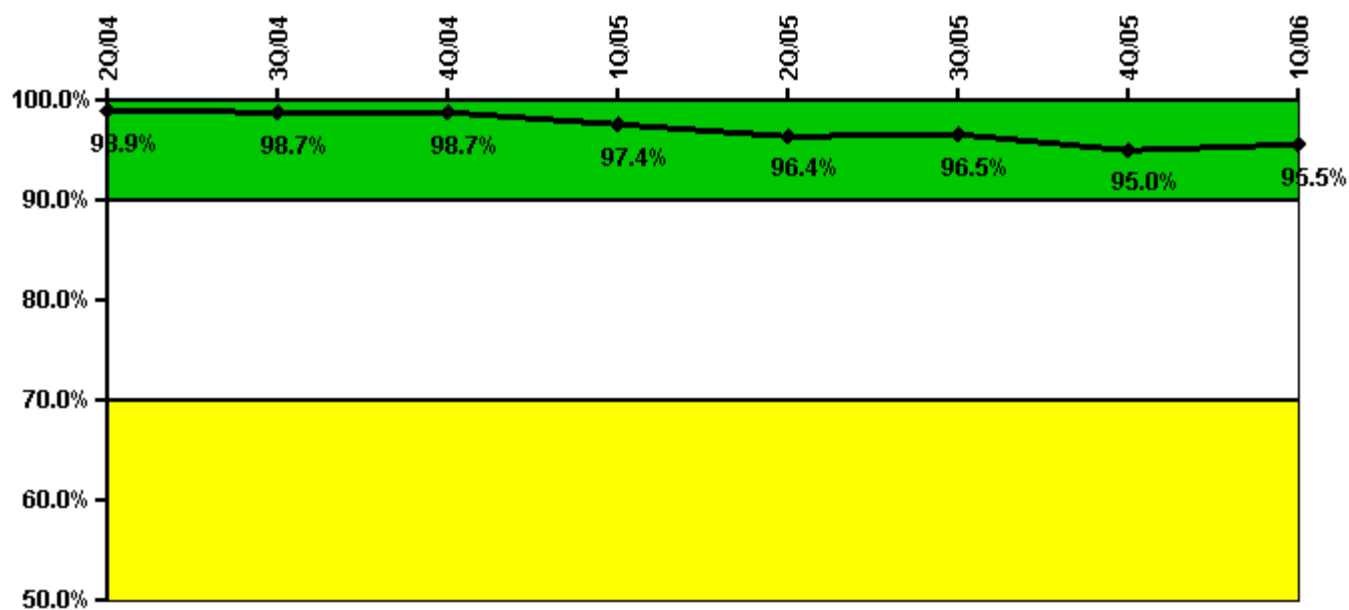
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.039	0.038	0.045	0.045	0.037	0.060	0.060	0.469	0.159	0.051	0.075	0.075
Technical specification limit	10.0	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	0.5	0.5	0.4	0.6	0.6	4.7	1.6	0.5	0.8	0.8
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	0.160	0.054	0.064	0.094	0.124	0.097	0.036	0.035	0.054	0.054	0.030	0.024
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.6	0.5	0.6	0.9	1.2	1.0	0.4	0.4	0.5	0.5	0.3	0.2

Licensee Comments: none

Drill/Exercise Performance



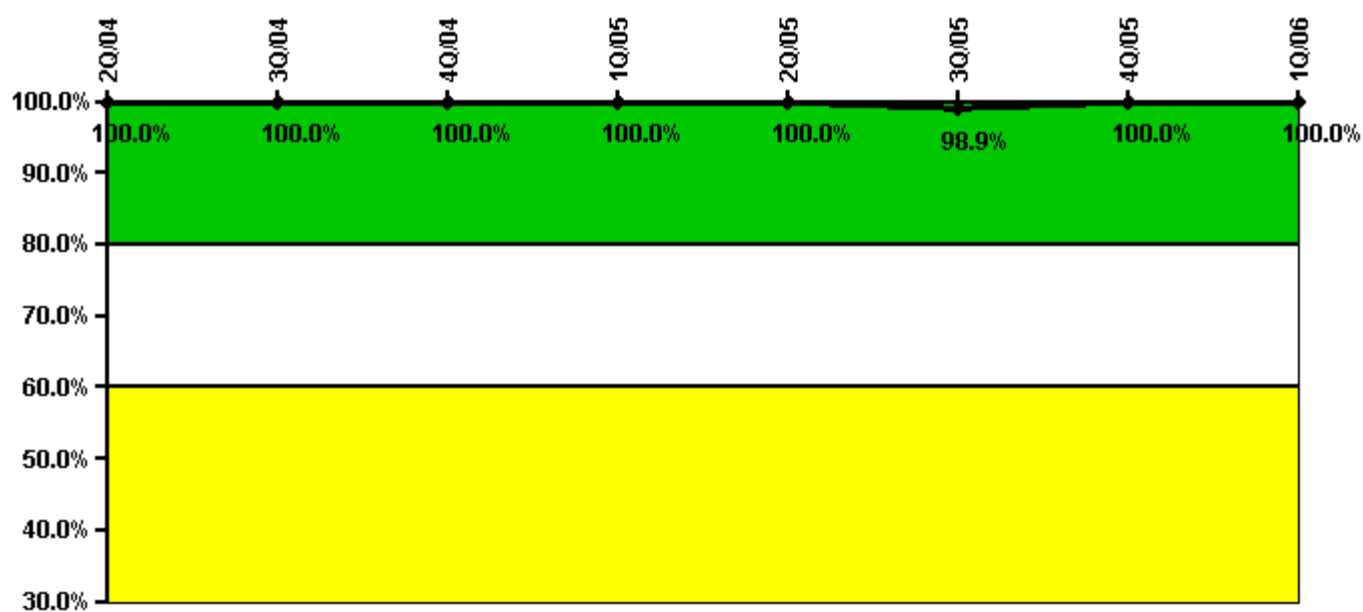
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful opportunities	46.0	19.0	0	12.0	17.0	27.0	11.0	37.0
Total opportunities	47.0	19.0	0	14.0	19.0	27.0	13.0	38.0
Indicator value	98.9%	98.7%	98.7%	97.4%	96.4%	96.5%	95.0%	95.5%

Licensee Comments: none

ERO Drill Participation



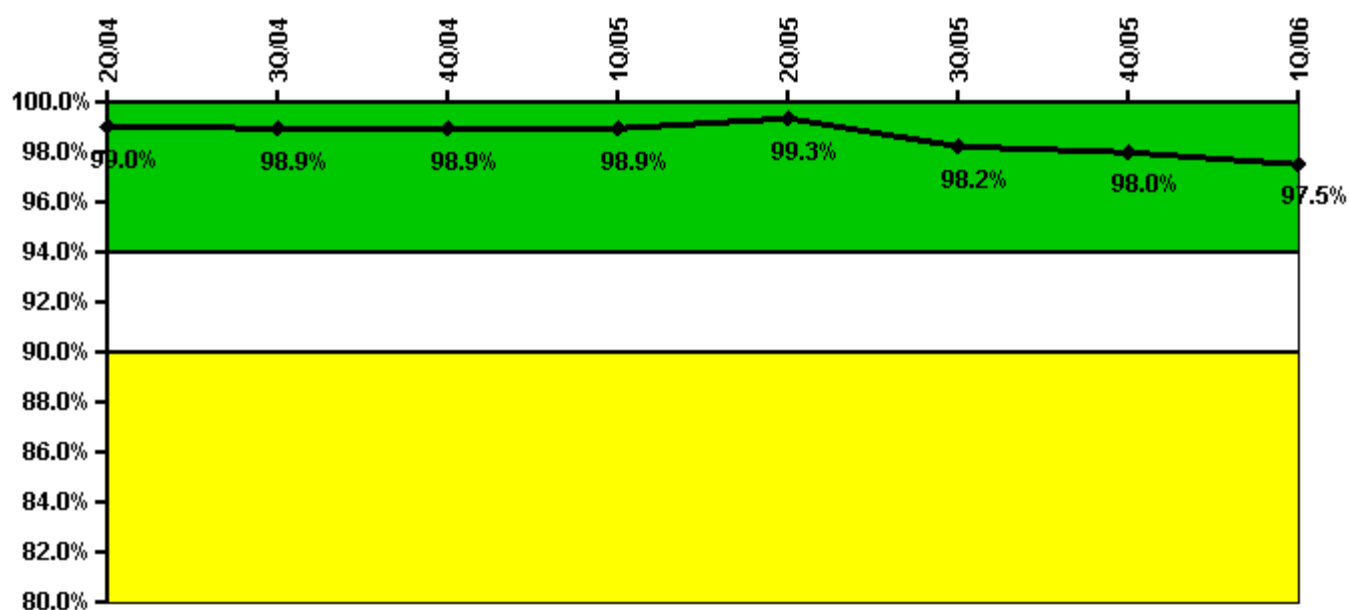
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Participating Key personnel	59.0	59.0	60.0	57.0	95.0	93.0	94.0	103.0
Total Key personnel	59.0	59.0	60.0	57.0	95.0	94.0	94.0	103.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	98.9%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



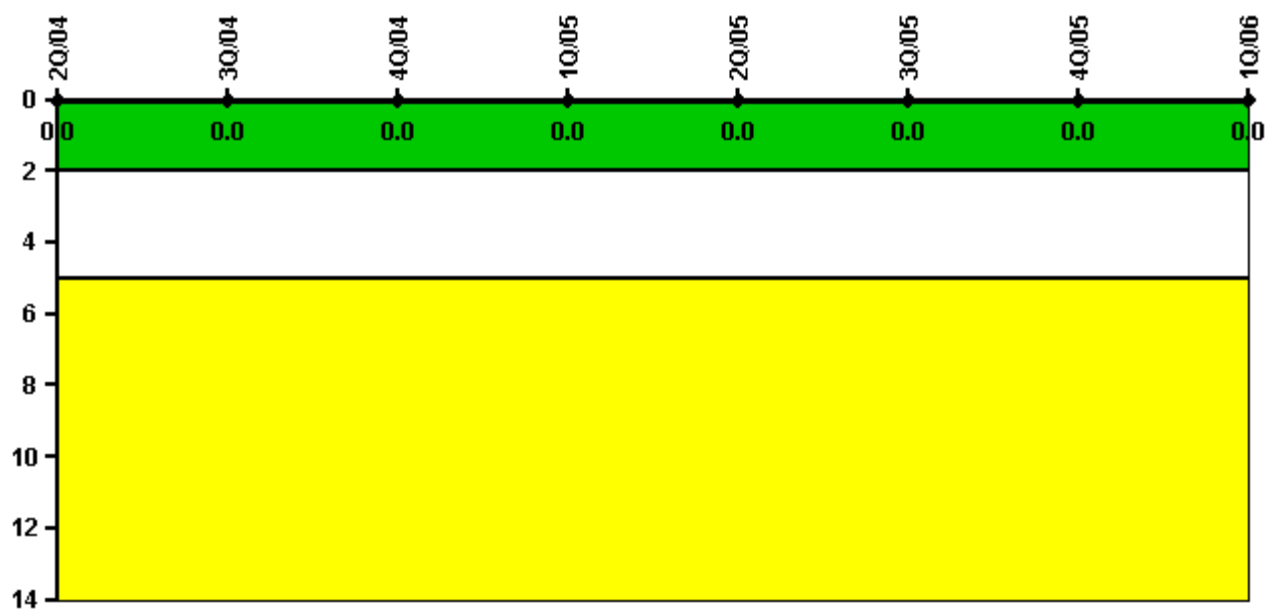
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful siren-tests	1217	1233	954	1134	1014	1164	992	984
Total sirens-tests	1241	1244	962	1143	1015	1225	1009	1010
Indicator value	99.0%	98.9%	98.9%	98.9%	99.3%	98.2%	98.0%	97.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness



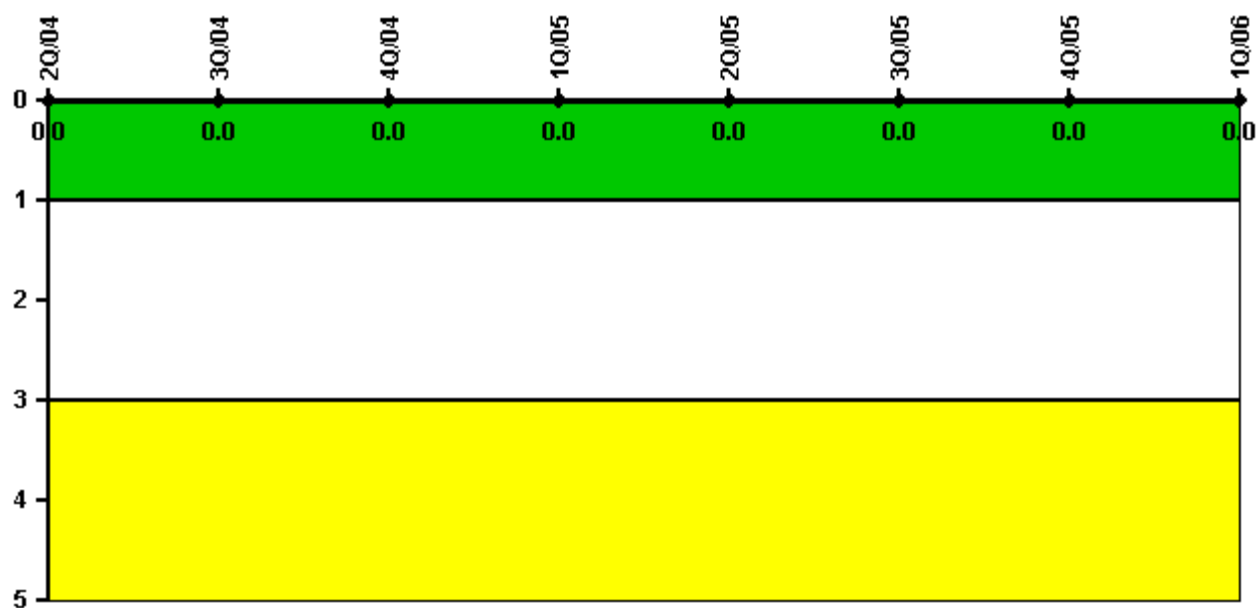
Thresholds: White > 2.0 Yellow > 5.0

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](#)

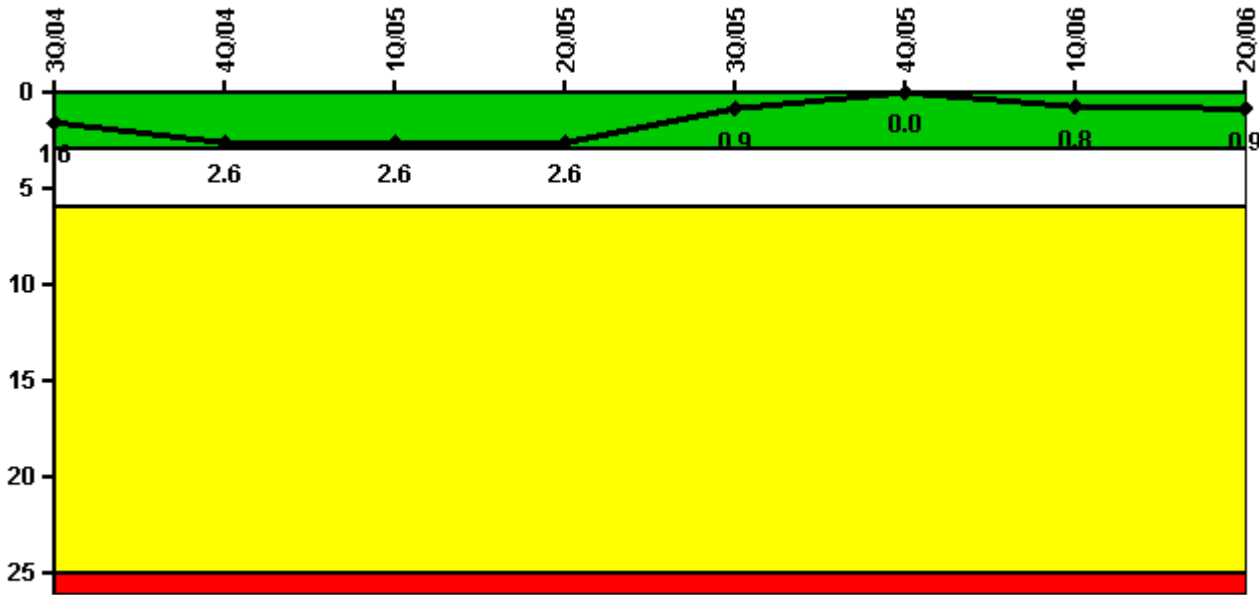
Last Modified: May 5, 2006

Indian Point 2

2Q/2006 Performance Indicators

Licensee's General Comments: On May 4, 2006, during a refueling outage, a core barrel (lower internals) lift resulted in an unintended exposure occurrence when a worker involved in the evolution was exposed to radiation that exceeded the administrative limits for this specific job by 174 mrem.

Unplanned Scrams per 7000 Critical Hrs



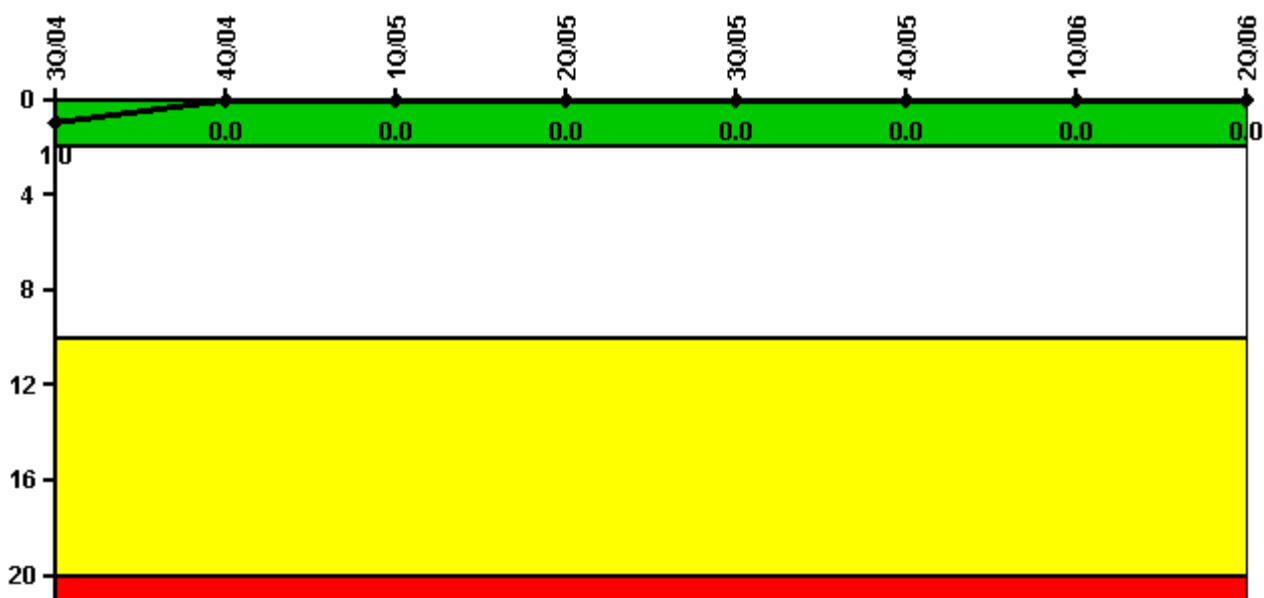
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	2.0	1.0	0	0	0	0	1.0	0
Critical hours	2147.4	1480.2	2160.0	2183.0	2208.0	2209.0	2148.6	1460.3
Indicator value	1.6	2.6	2.6	2.6	0.9	0	0.8	0.9

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



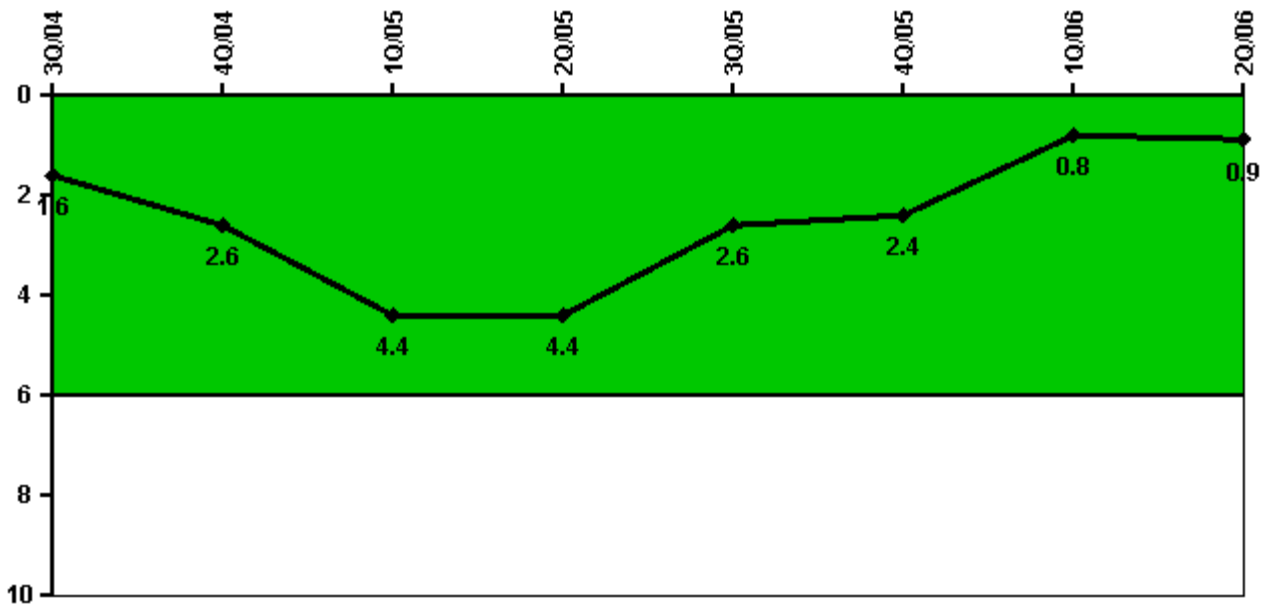
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/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	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



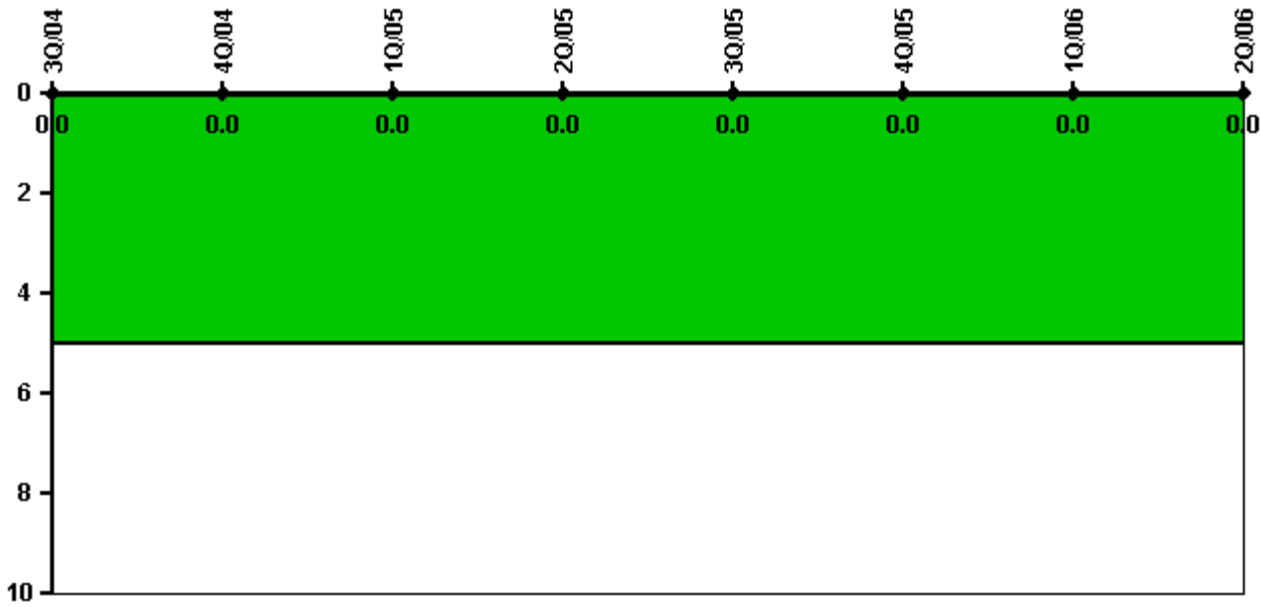
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Unplanned power changes	2.0	1.0	2.0	0	0	1.0	0	0
Critical hours	2147.4	1480.2	2160.0	2183.0	2208.0	2209.0	2148.6	1460.3
Indicator value	1.6	2.6	4.4	4.4	2.6	2.4	0.8	0.9

Licensee Comments: none

Safety System Functional Failures (PWR)



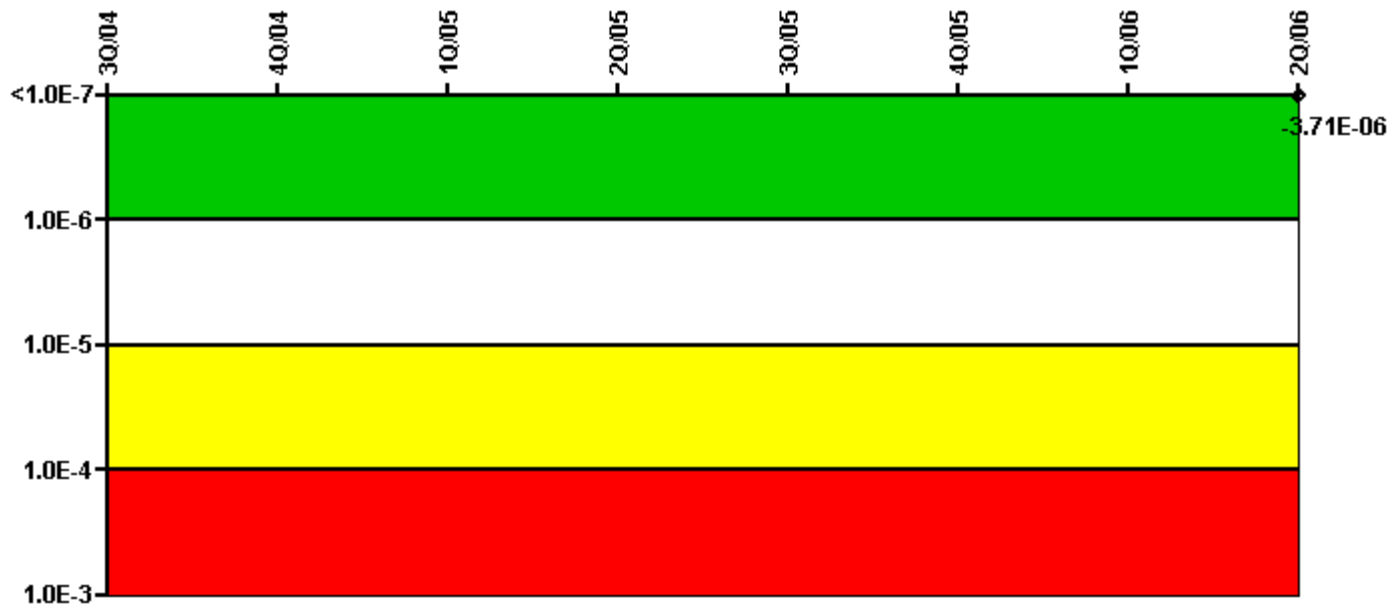
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



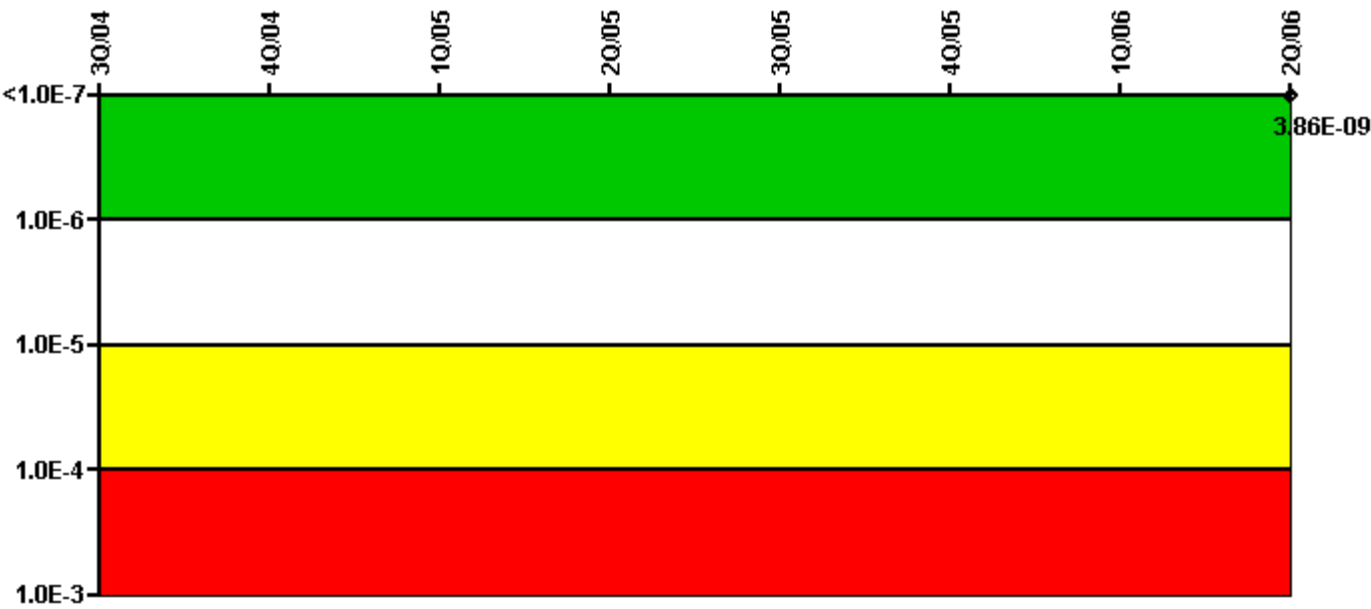
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (Δ CDF)								9.20E-08
URI (Δ CDF)								-3.80E-06
PLE								NO
Indicator value								-3.71E-06

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



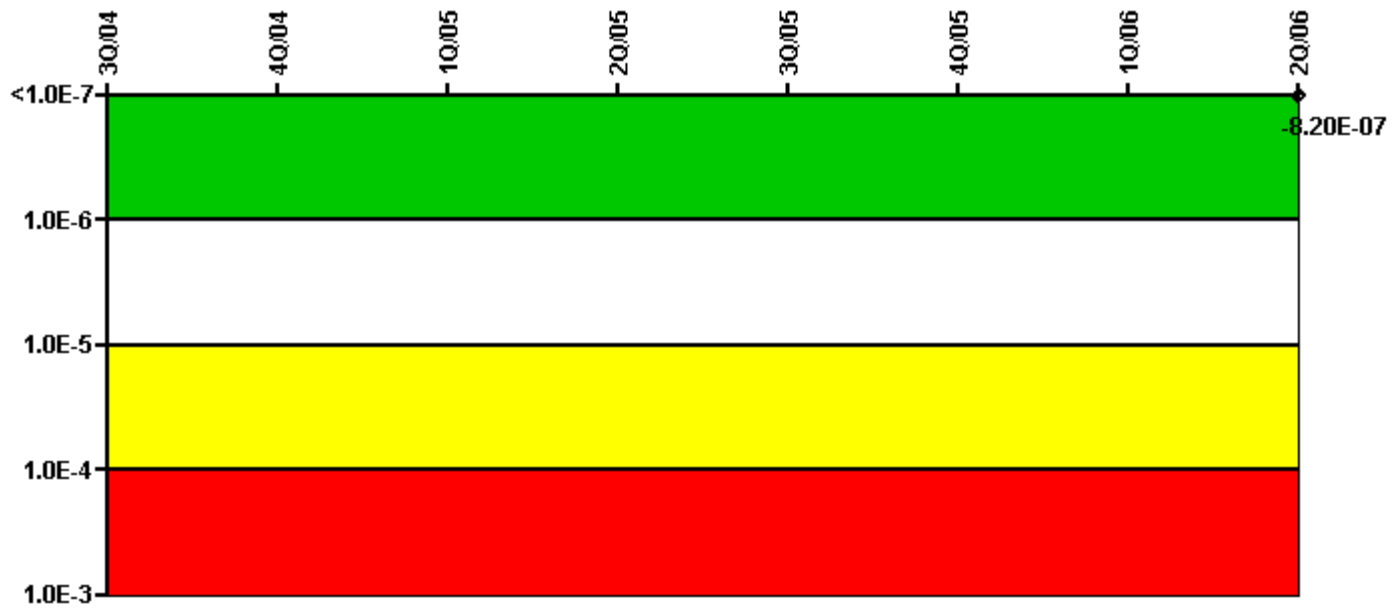
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								2.60E-10
URI (ΔCDF)								3.60E-09
PLE								NO
Indicator value								3.86E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



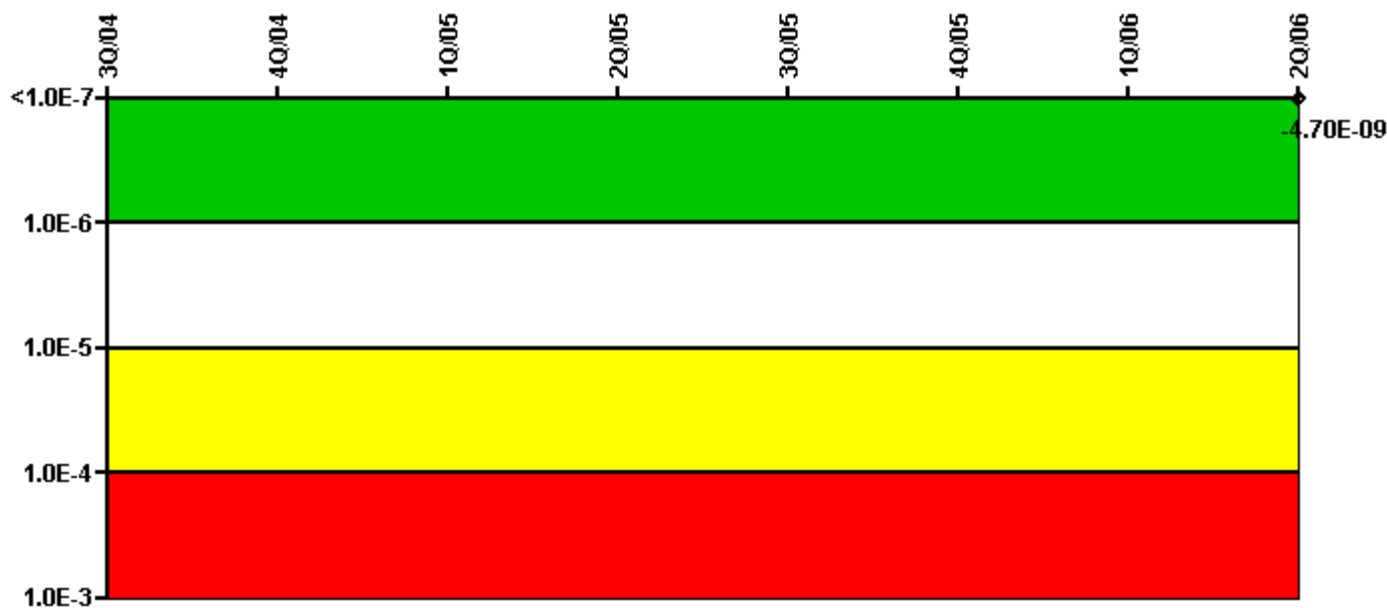
Thresholds: White $> 1.00E-6$ Yellow $> 1.00E-5$ Red $> 1.00E-4$

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (Δ CDF)								2.80E-07
URI (Δ CDF)								-1.10E-06
PLE								NO
Indicator value								-8.20E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



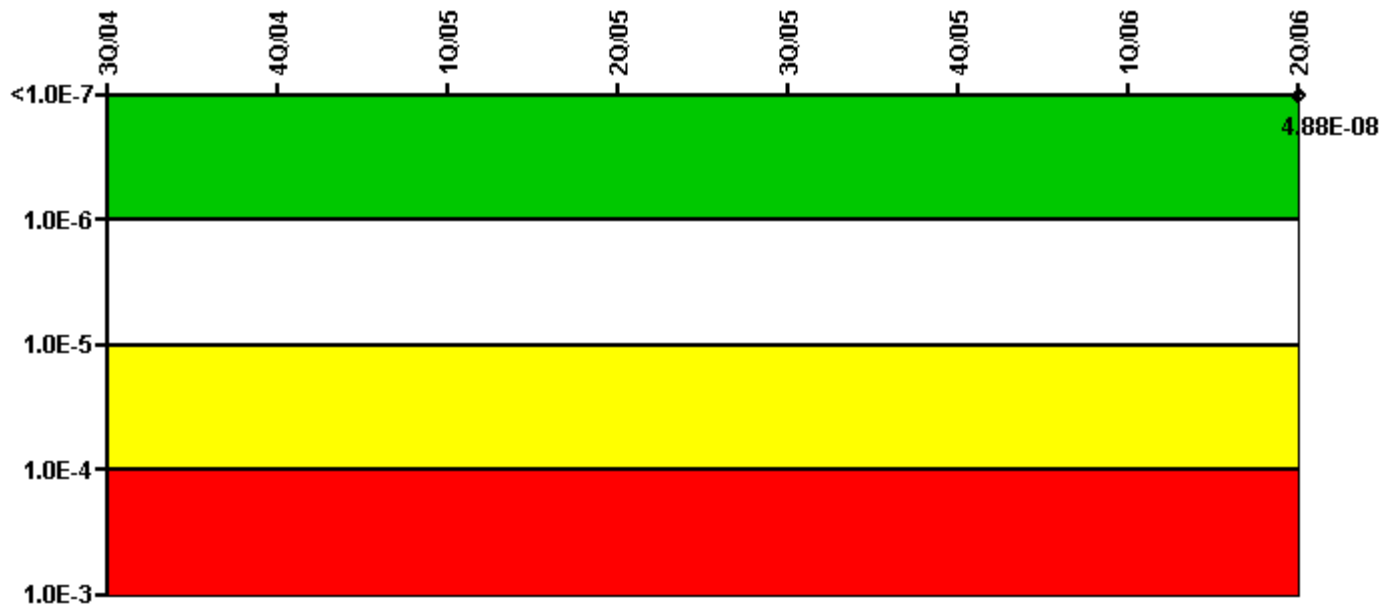
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)								-1.10E-08
URI (ΔCDF)								6.30E-09
PLE								NO
Indicator value								-4.70E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



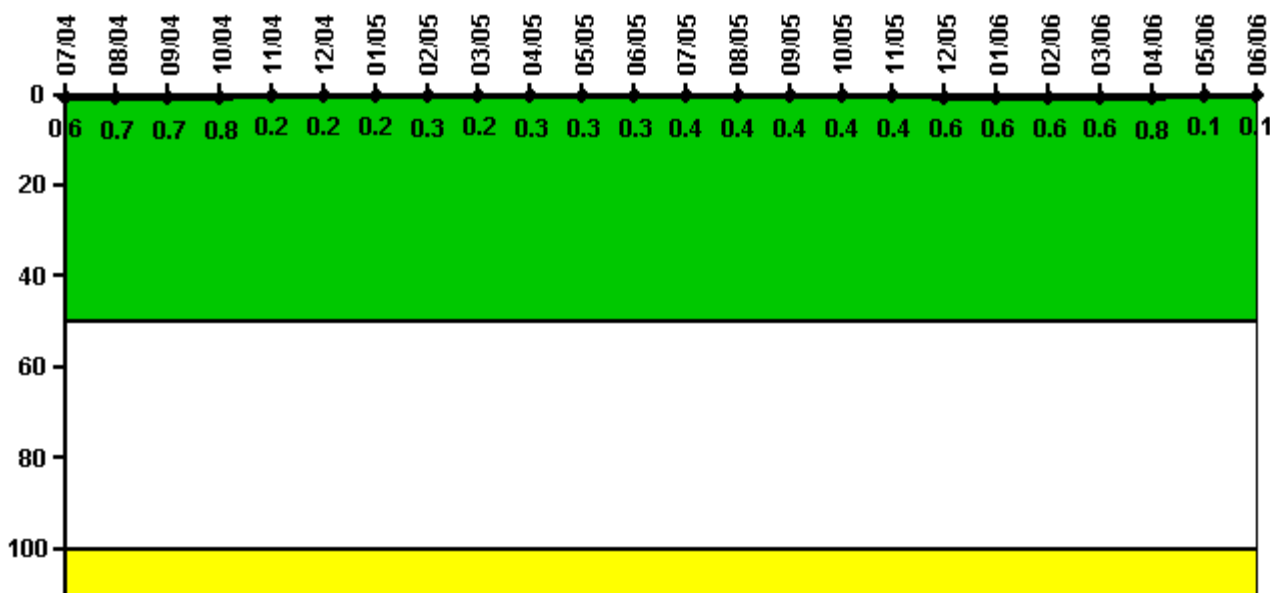
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (Δ CDF)								1.80E-09
URI (Δ CDF)								4.70E-08
PLE								NO
Indicator value								4.88E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

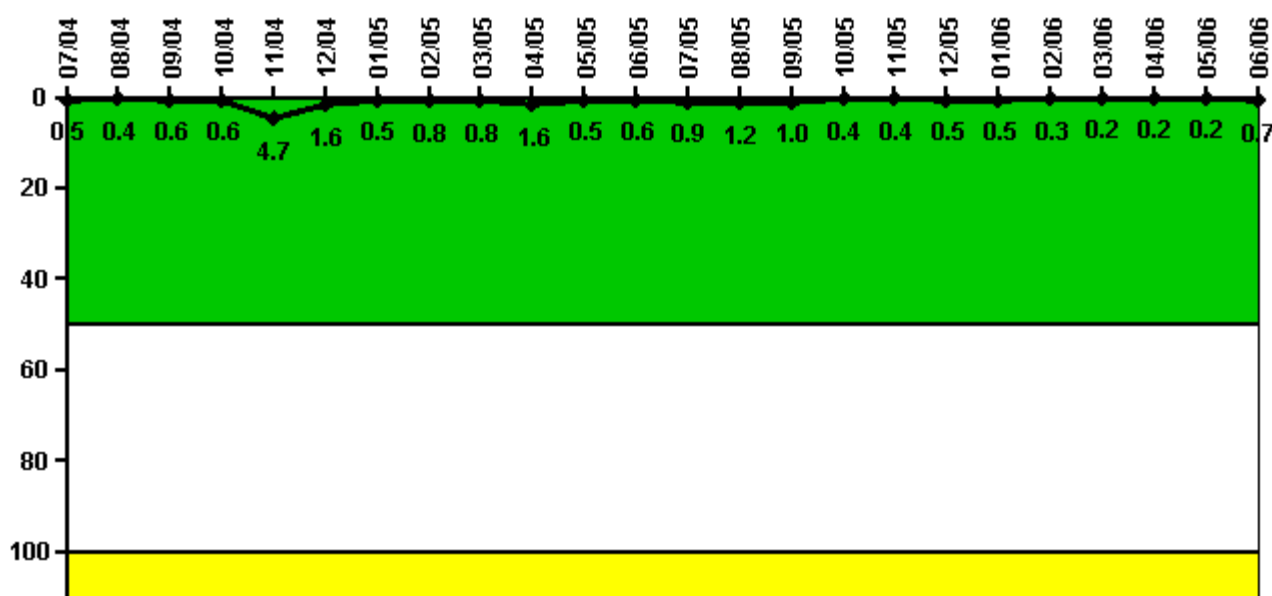
Notes

Reactor Coolant System Activity	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05
Maximum activity	0.006250	0.006690	0.006880	0.007960	0.001550	0.002020	0.001870	0.003270	0.002140	0.002800	0.002630	0.003450
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.6	0.7	0.7	0.8	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3

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	0.003840	0.004020	0.003970	0.004350	0.004420	0.005530	0.005620	0.005750	0.005910	0.008170	0.001100	0.001260
Technical specification limit	1.0	1.0	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	0.6	0.6	0.6	0.6	0.8	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage

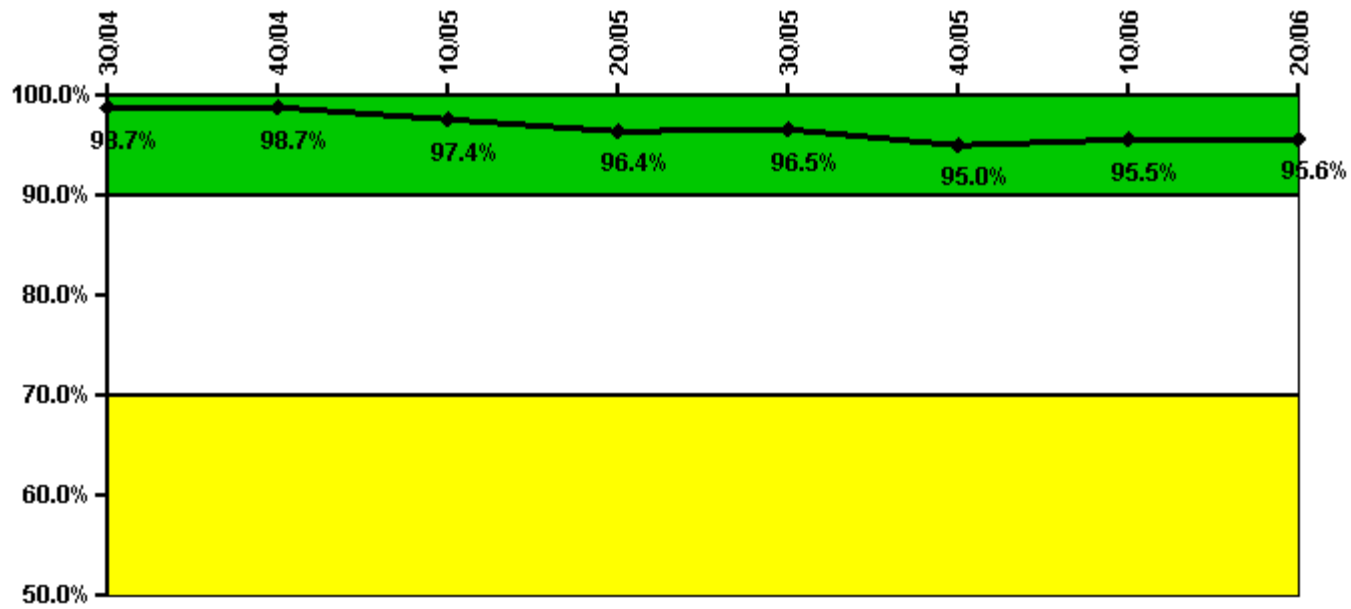


Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05
Maximum leakage	0.045	0.037	0.060	0.060	0.469	0.159	0.051	0.075	0.075	0.160	0.054	0.064
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.5	0.4	0.6	0.6	4.7	1.6	0.5	0.8	0.8	1.6	0.5	0.6
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	0.094	0.124	0.097	0.036	0.035	0.054	0.054	0.030	0.024	0.023	0.022	0.065
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.9	1.2	1.0	0.4	0.4	0.5	0.5	0.3	0.2	0.2	0.2	0.7

Licensee Comments: none

Drill/Exercise Performance

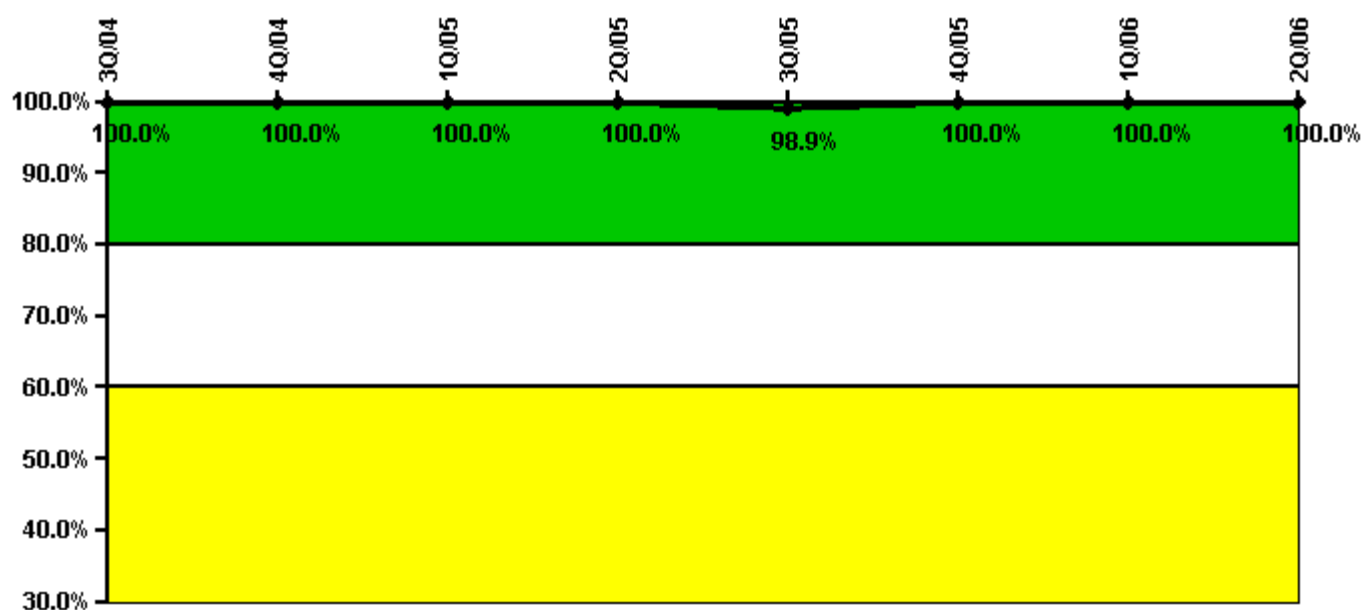
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful opportunities	19.0	0	12.0	17.0	27.0	11.0	37.0	30.0
Total opportunities	19.0	0	14.0	19.0	27.0	13.0	38.0	30.0
Indicator value	98.7%	98.7%	97.4%	96.4%	96.5%	95.0%	95.5%	95.6%

Licensee Comments: none

ERO Drill Participation



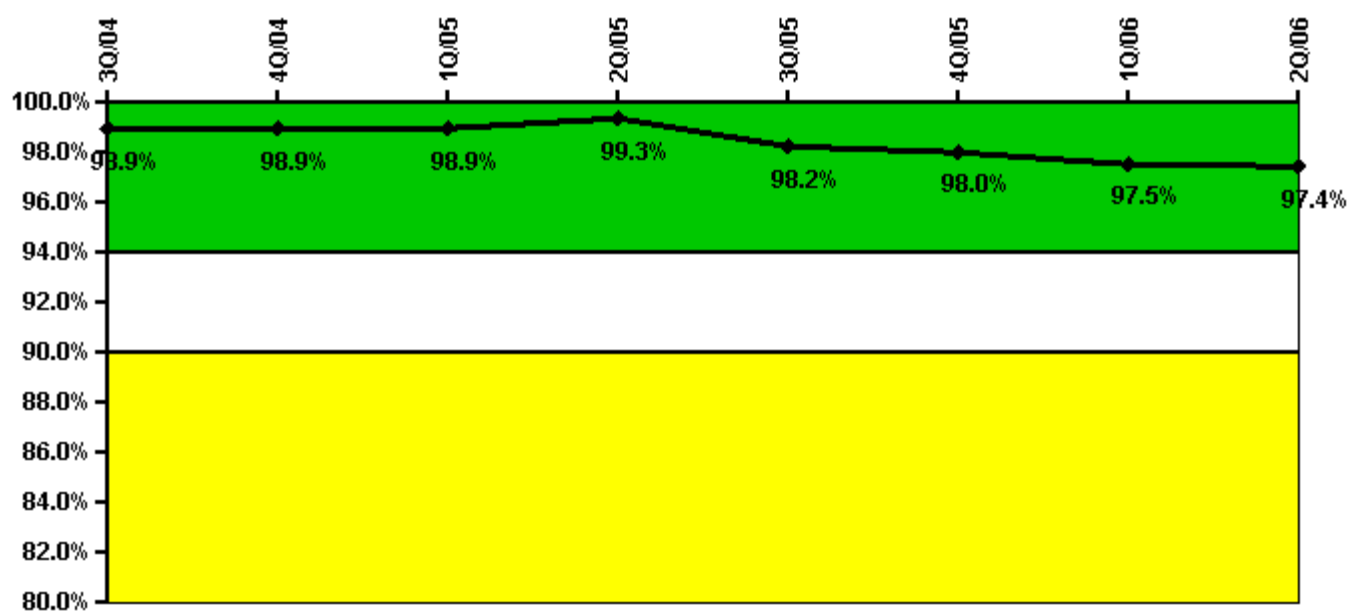
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Participating Key personnel	59.0	60.0	57.0	95.0	93.0	94.0	103.0	103.0
Total Key personnel	59.0	60.0	57.0	95.0	94.0	94.0	103.0	103.0
Indicator value	100.0%	100.0%	100.0%	100.0%	98.9%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



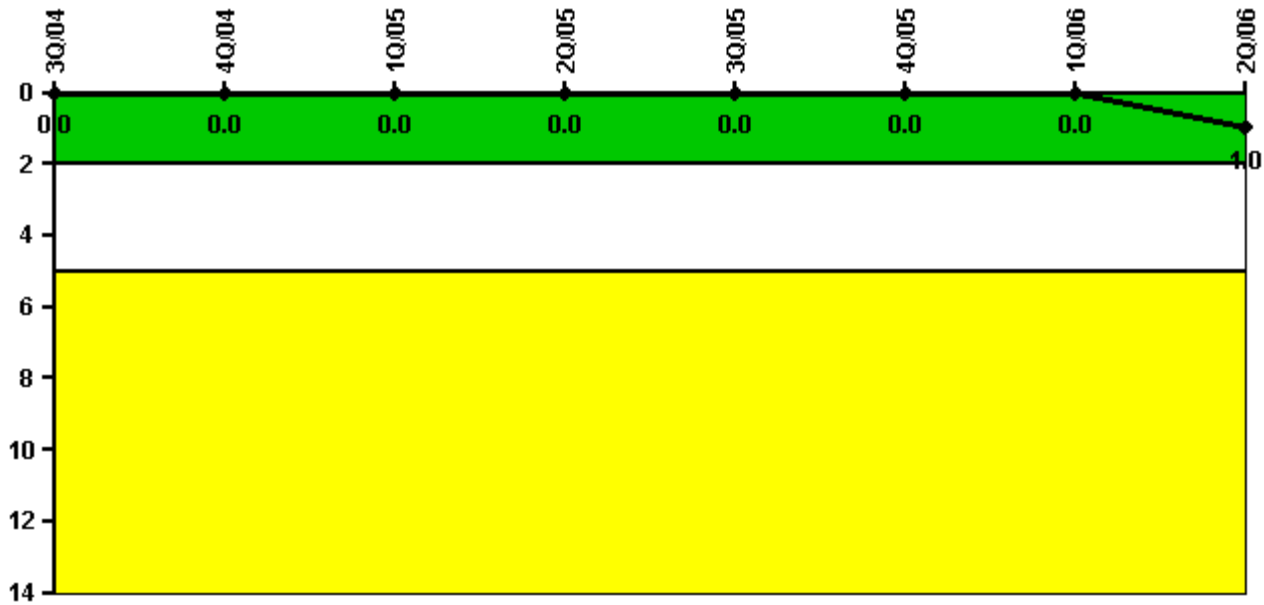
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful siren-tests	1233	954	1134	1014	1164	992	984	1083
Total sirens-tests	1244	962	1143	1015	1225	1009	1010	1092
Indicator value	98.9%	98.9%	98.9%	99.3%	98.2%	98.0%	97.5%	97.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness

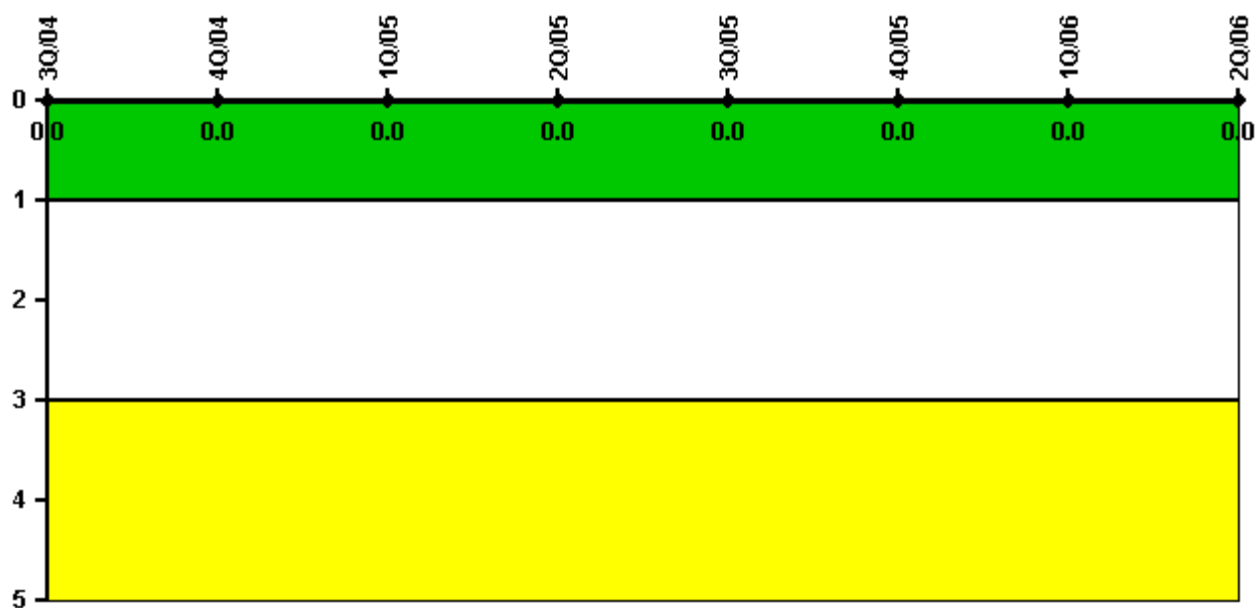


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	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	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](#)

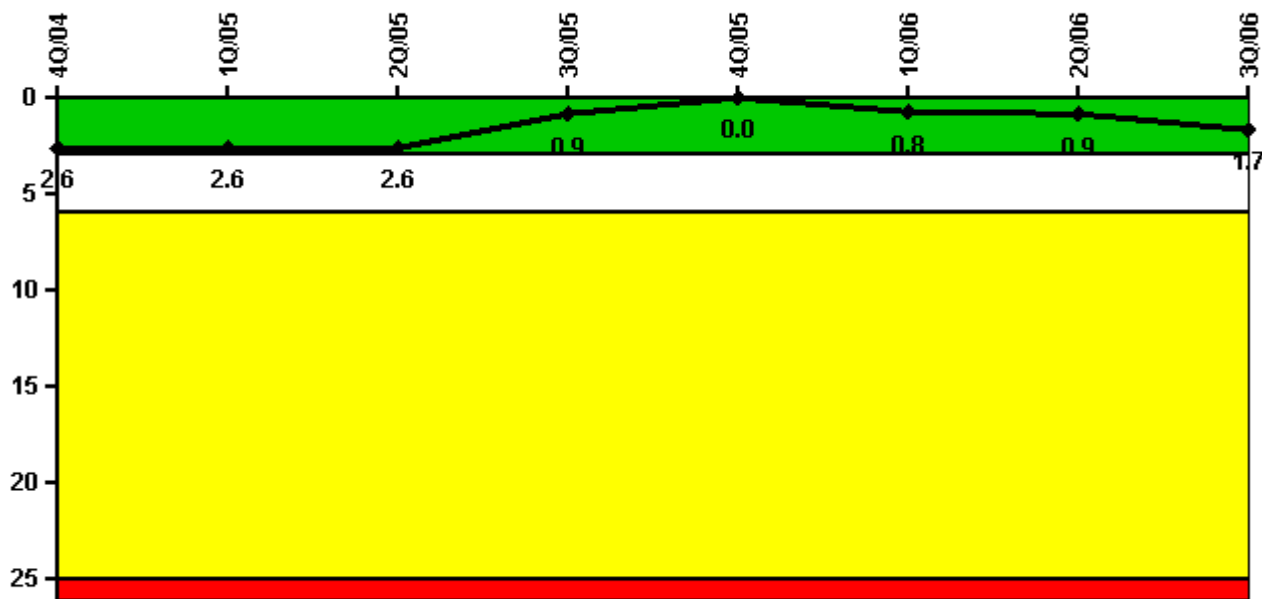
Last Modified: August 2, 2006

Indian Point 2

3Q/2006 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



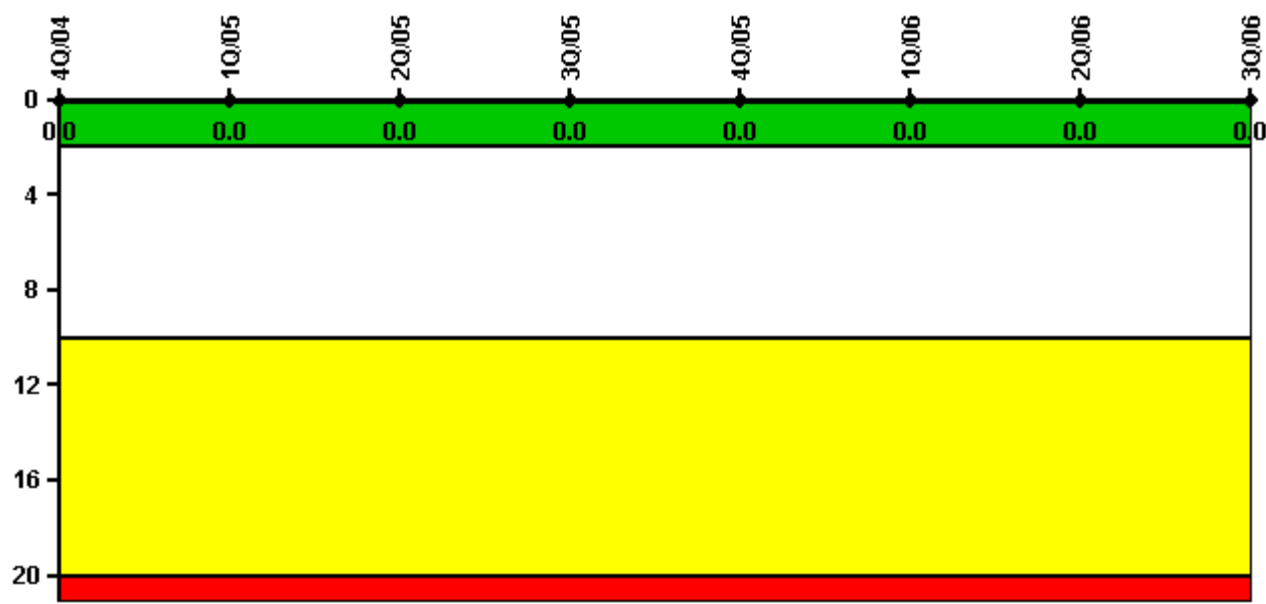
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned scrams	1.0	0	0	0	0	1.0	0	1.0
Critical hours	1480.2	2160.0	2183.0	2208.0	2209.0	2148.6	1460.3	2187.3
Indicator value	2.6	2.6	2.6	0.9	0	0.8	0.9	1.7

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



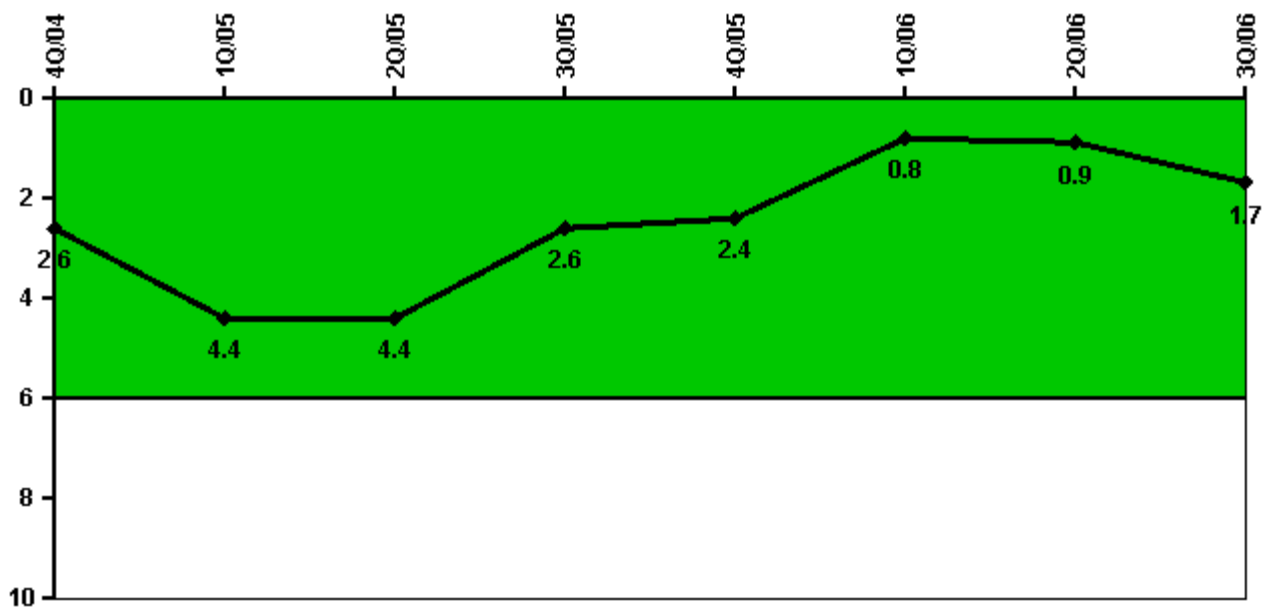
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



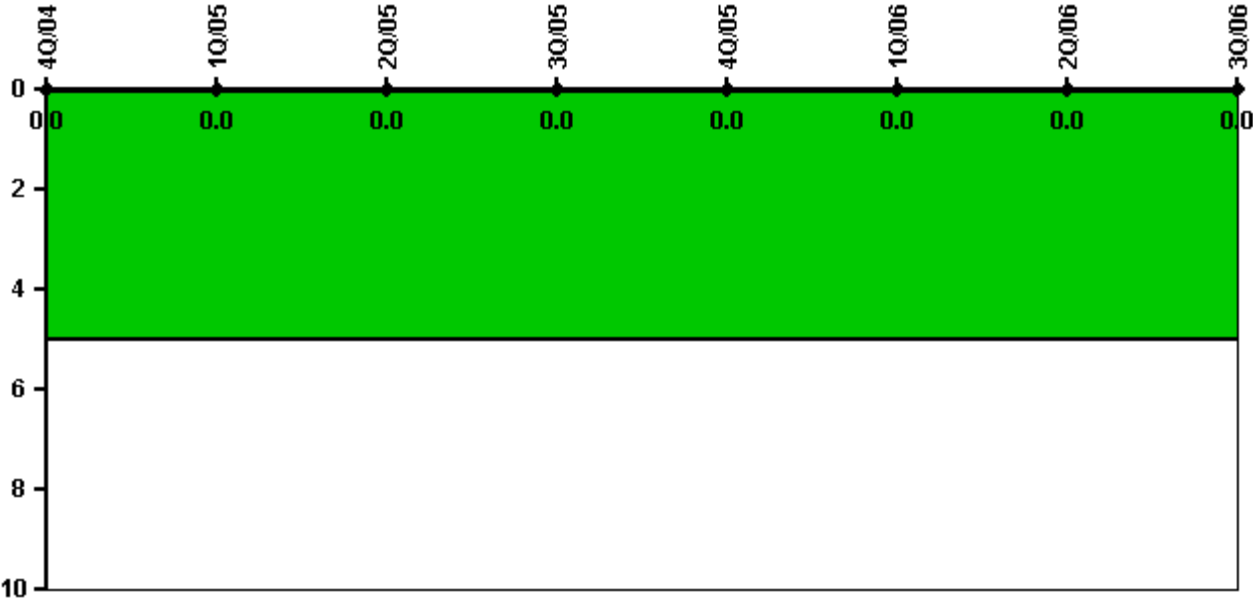
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned power changes	1.0	2.0	0	0	1.0	0	0	1.0
Critical hours	1480.2	2160.0	2183.0	2208.0	2209.0	2148.6	1460.3	2187.3
Indicator value	2.6	4.4	4.4	2.6	2.4	0.8	0.9	1.7

Licensee Comments: none

Safety System Functional Failures (PWR)



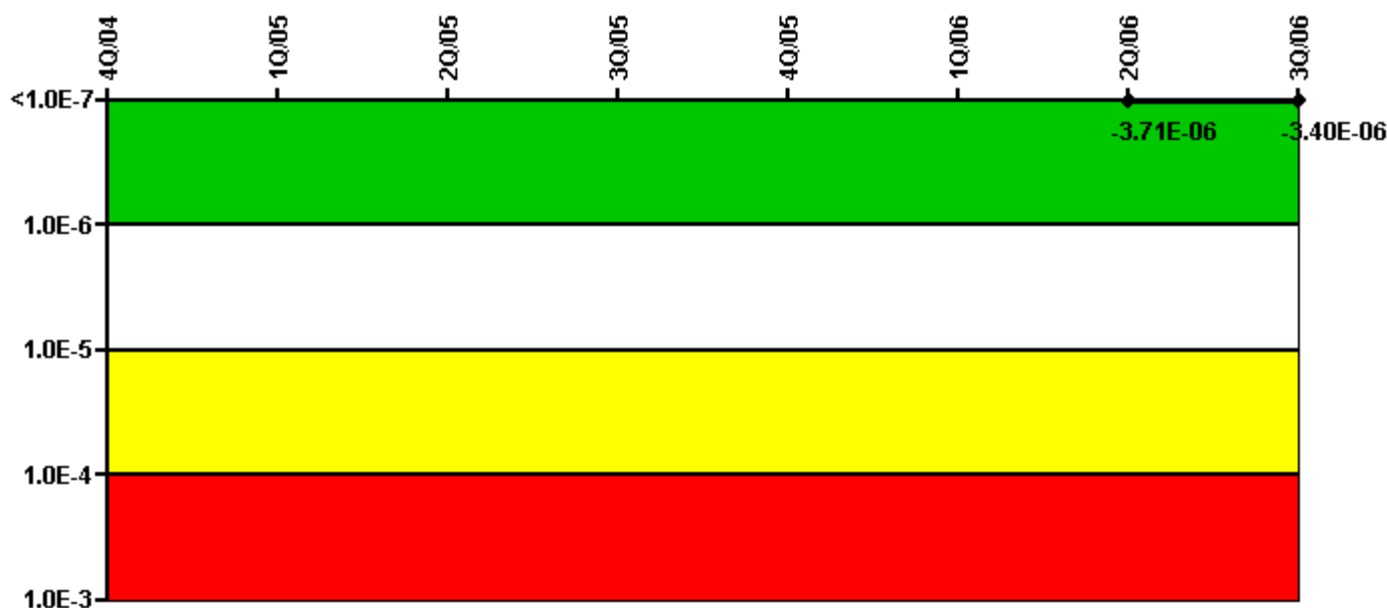
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



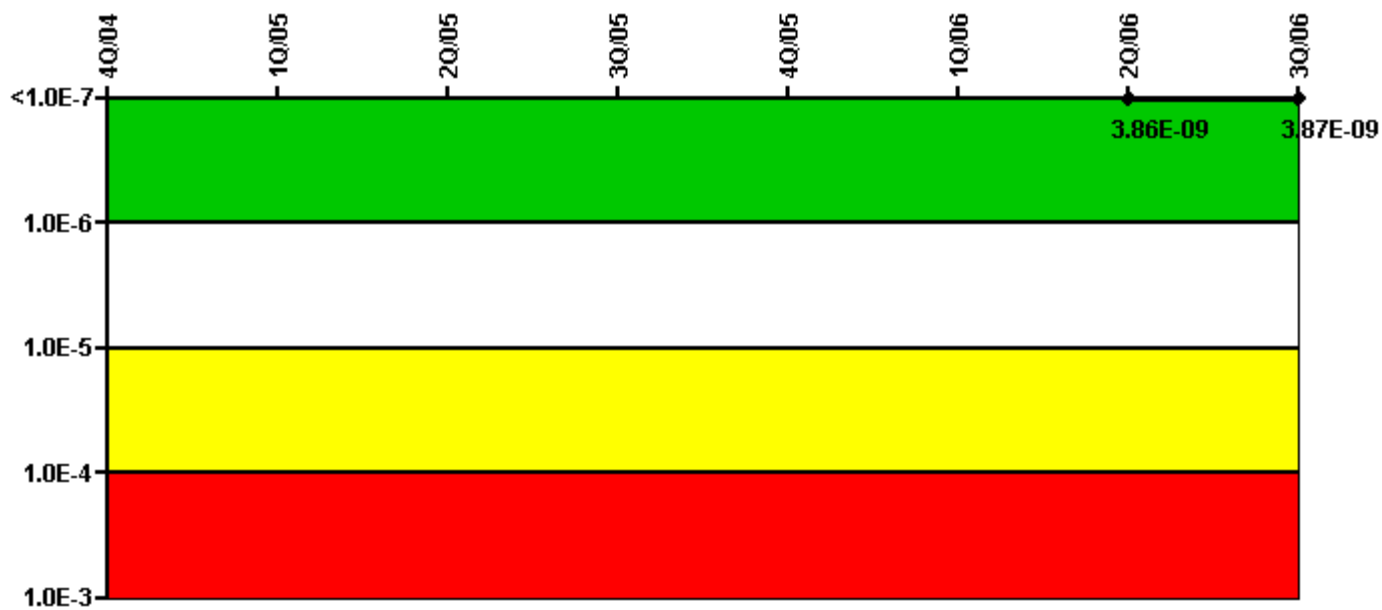
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (Δ CDF)							9.20E-08	3.00E-07
URI (Δ CDF)							-3.80E-06	-3.70E-06
PLE							NO	NO
Indicator value							-3.71E-06	-3.40E-06

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



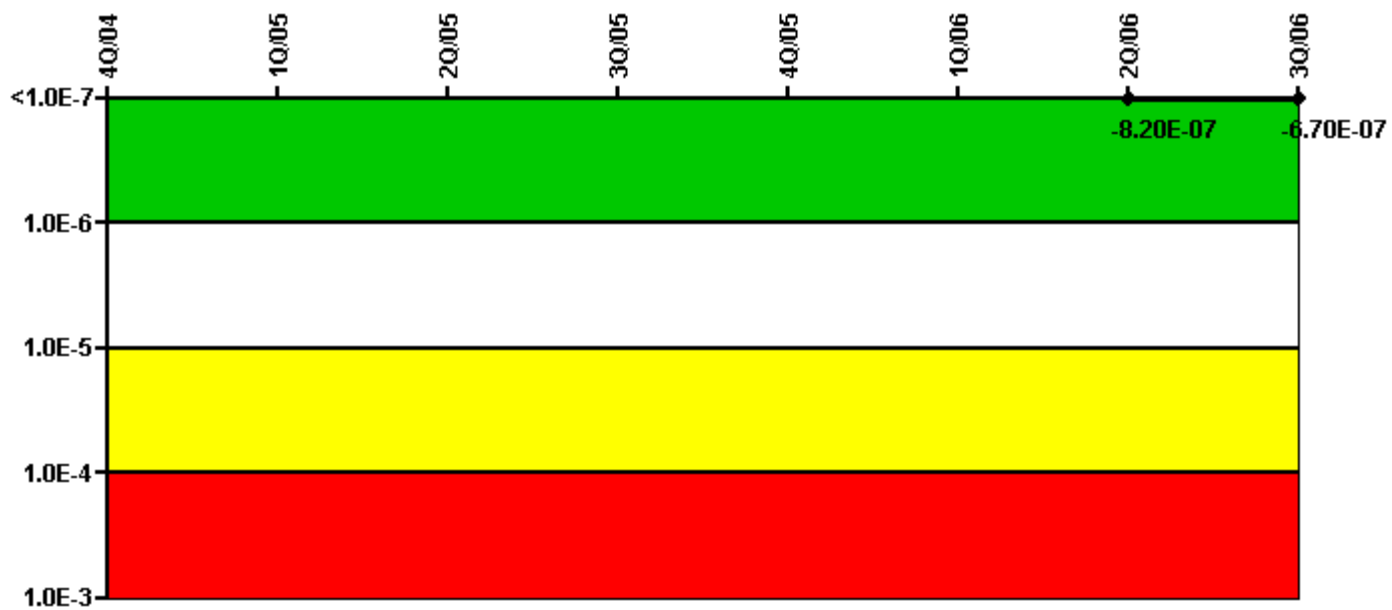
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)							2.60E-10	2.70E-10
URI (Δ CDF)							3.60E-09	3.60E-09
PLE							NO	NO
Indicator value							3.86E-09	3.87E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



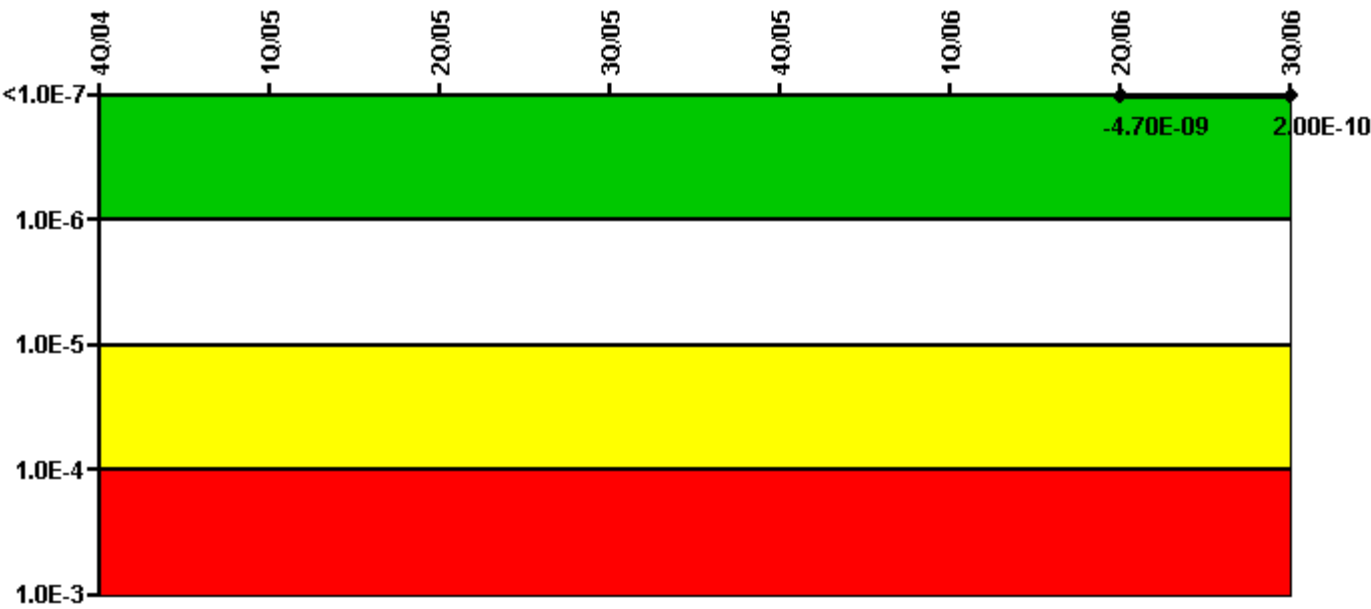
Thresholds: White $> 1.00E-6$ Yellow $> 1.00E-5$ Red $> 1.00E-4$

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (Δ CDF)							2.80E-07	4.30E-07
URI (Δ CDF)							-1.10E-06	-1.10E-06
PLE							NO	NO
Indicator value							-8.20E-07	-6.70E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



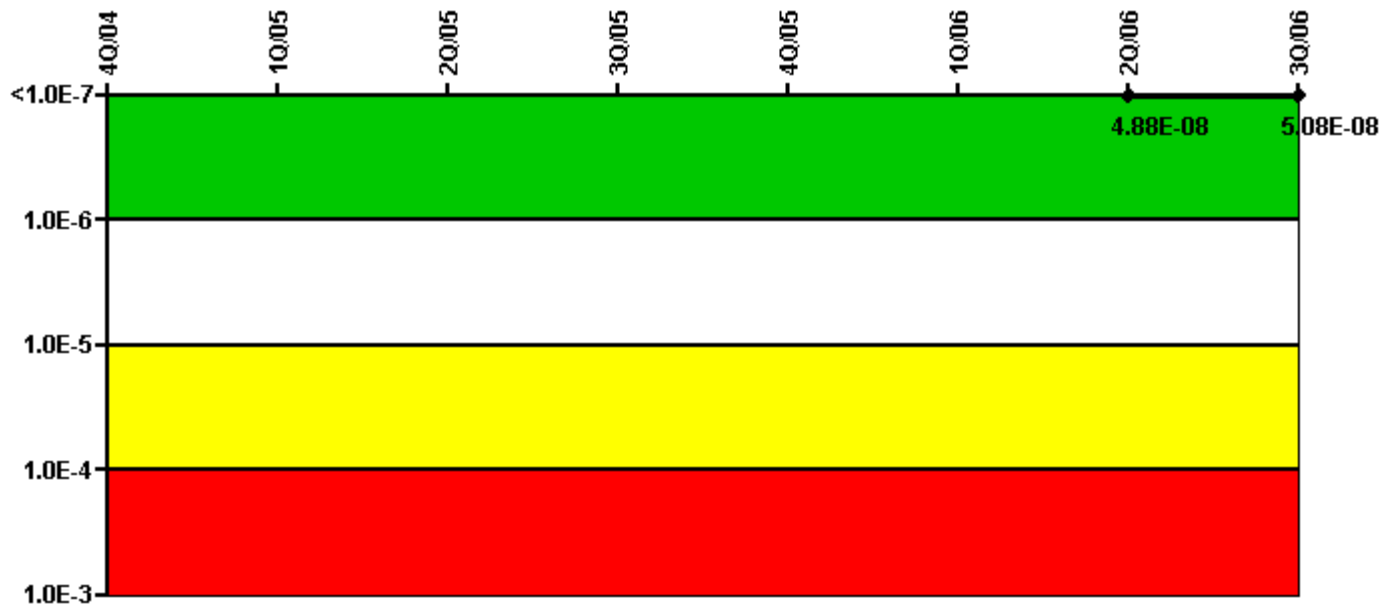
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							-1.10E-08	-5.60E-09
URI (ΔCDF)							6.30E-09	5.80E-09
PLE							NO	NO
Indicator value							-4.70E-09	2.00E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



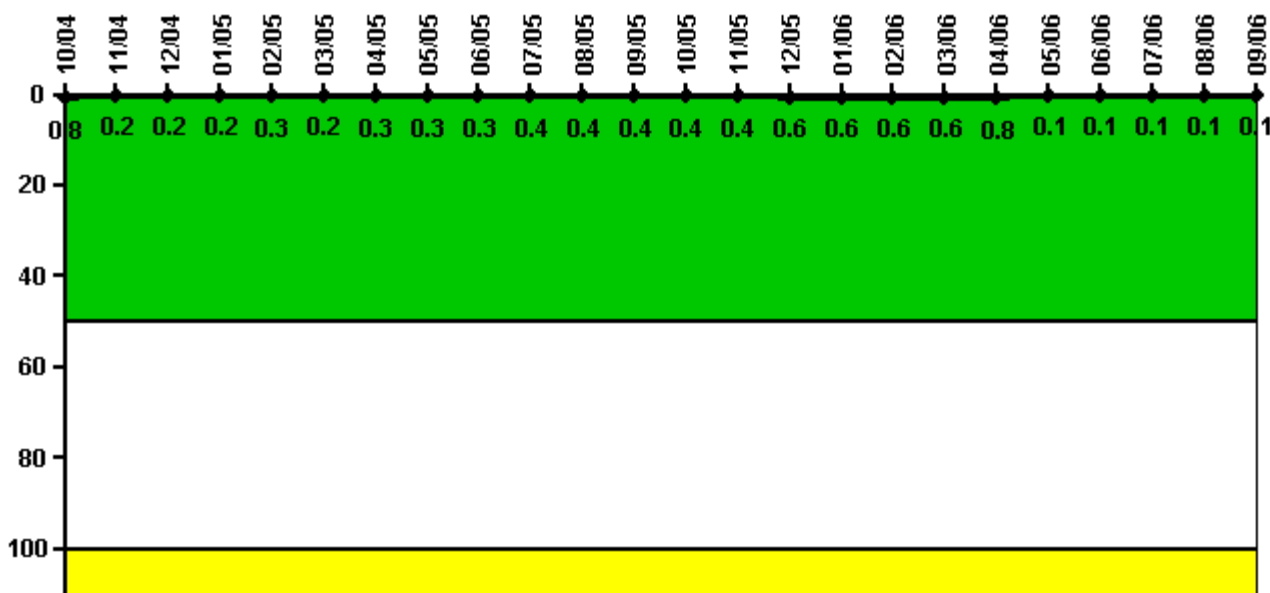
Thresholds: White $> 1.00E-6$ Yellow $> 1.00E-5$ Red $> 1.00E-4$

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (Δ CDF)							1.80E-09	2.80E-09
URI (Δ CDF)							4.70E-08	4.80E-08
PLE							NO	NO
Indicator value							4.88E-08	5.08E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

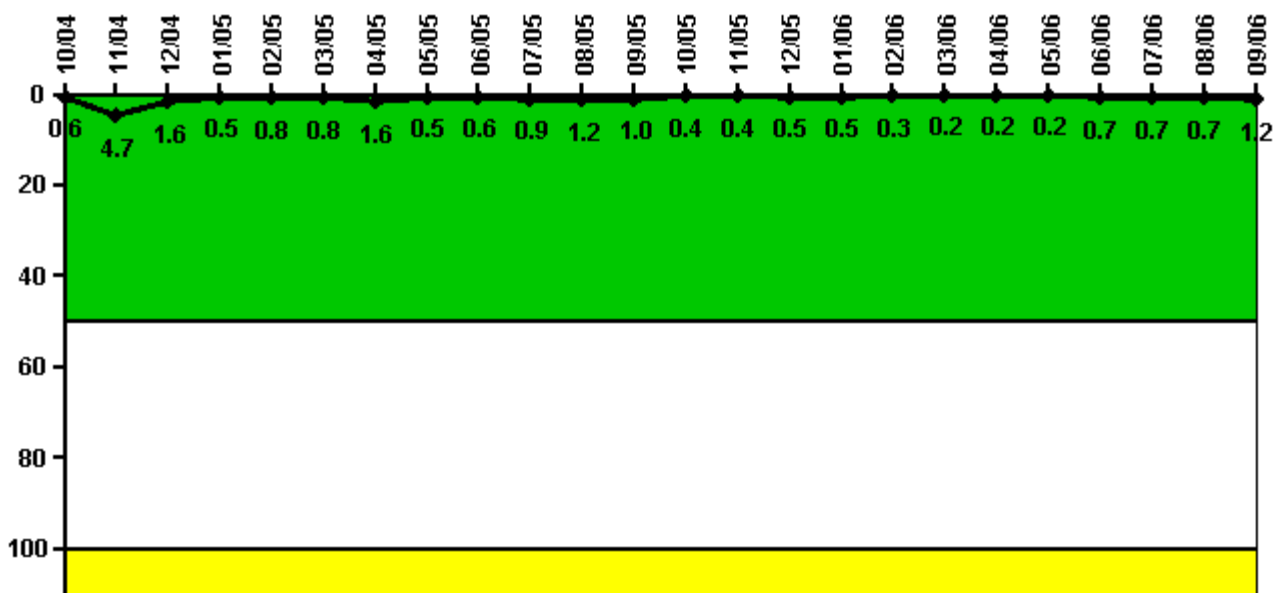
Notes

Reactor Coolant System Activity	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum activity	0.007960	0.001550	0.002020	0.001870	0.003270	0.002140	0.002800	0.002630	0.003450	0.003840	0.004020	0.003970
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.8	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.4

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	0.004350	0.004420	0.005530	0.005620	0.005750	0.005910	0.008170	0.001100	0.001260	0.001360	0.001380	0.001310
Technical specification limit	1.0	1.0	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	0.8	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



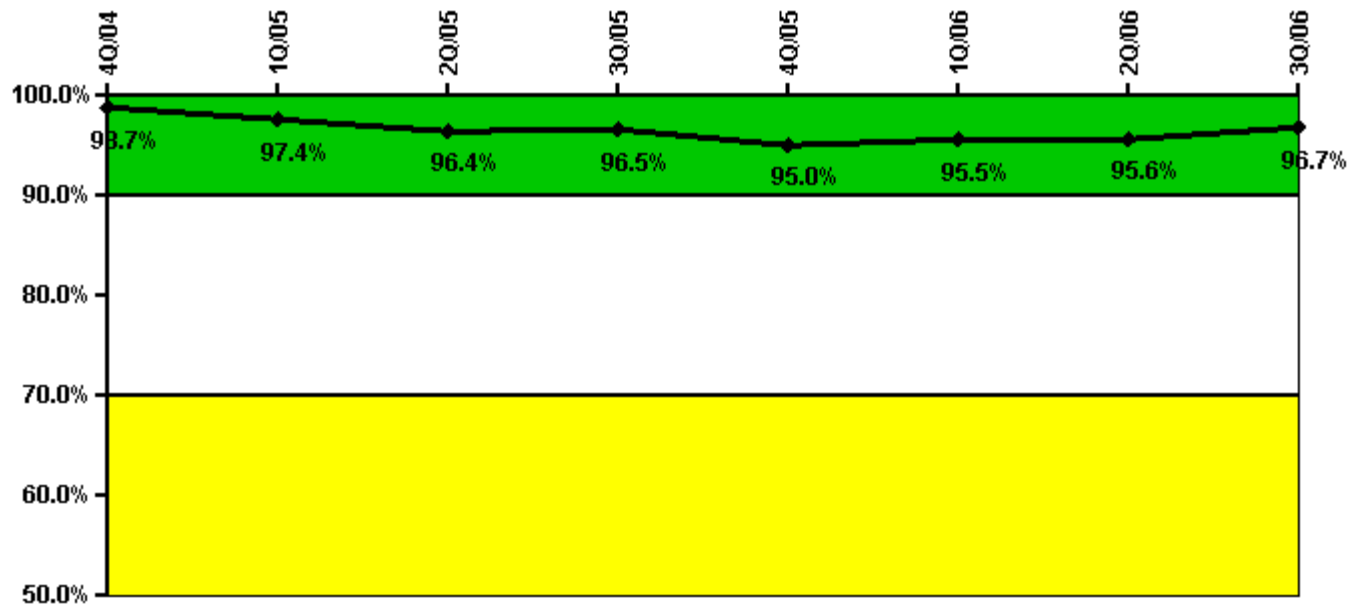
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum leakage	0.060	0.469	0.159	0.051	0.075	0.075	0.160	0.054	0.064	0.094	0.124	0.097
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.6	4.7	1.6	0.5	0.8	0.8	1.6	0.5	0.6	0.9	1.2	1.0
Reactor Coolant System Leakage	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06
Maximum leakage	0.036	0.035	0.054	0.054	0.030	0.024	0.023	0.022	0.065	0.069	0.069	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	0.4	0.4	0.5	0.5	0.3	0.2	0.2	0.2	0.7	0.7	0.7	1.2

Licensee Comments: none

Drill/Exercise Performance



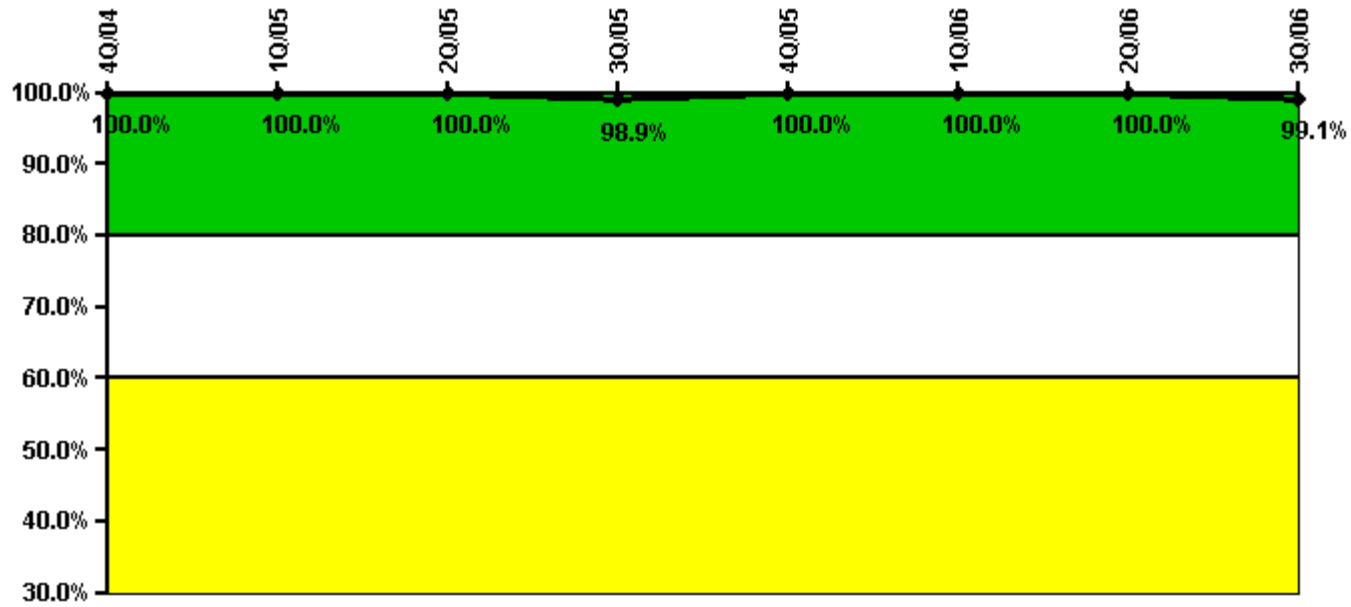
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful opportunities	0	12.0	17.0	27.0	11.0	37.0	30.0	73.0
Total opportunities	0	14.0	19.0	27.0	13.0	38.0	30.0	73.0
Indicator value	98.7%	97.4%	96.4%	96.5%	95.0%	95.5%	95.6%	96.7%

Licensee Comments: none

ERO Drill Participation



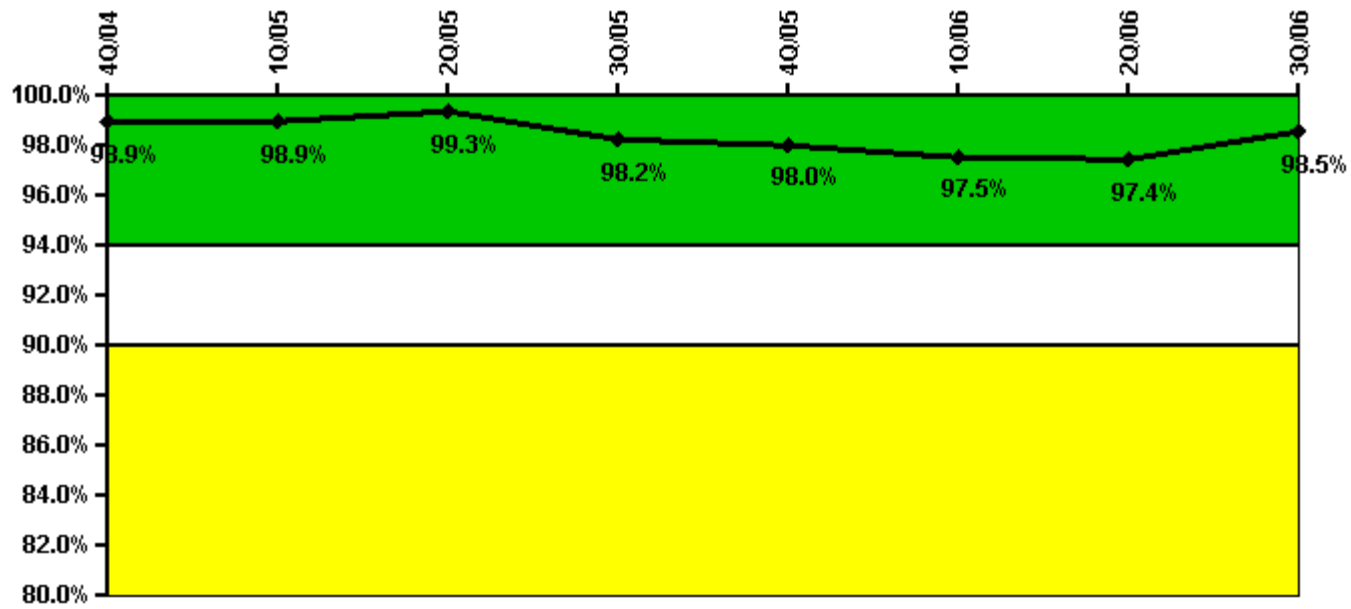
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Participating Key personnel	60.0	57.0	95.0	93.0	94.0	103.0	103.0	105.0
Total Key personnel	60.0	57.0	95.0	94.0	94.0	103.0	103.0	106.0
Indicator value	100.0%	100.0%	100.0%	98.9%	100.0%	100.0%	100.0%	99.1%

Licensee Comments: none

Alert & Notification System



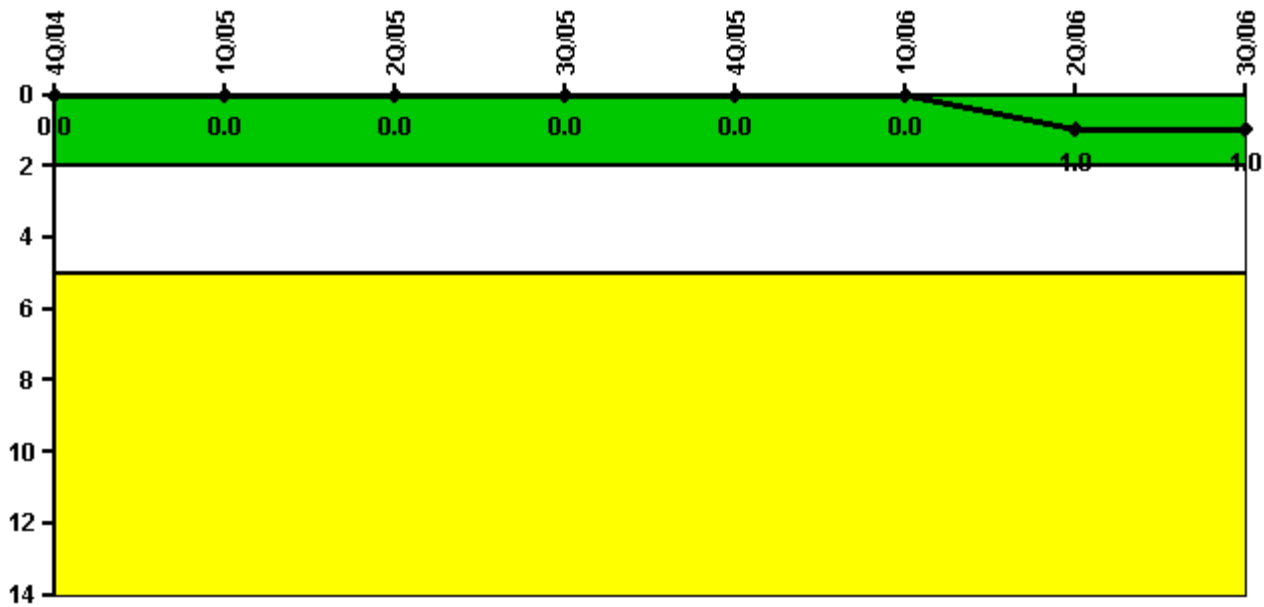
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful siren-tests	954	1134	1014	1164	992	984	1083	882
Total sirens-tests	962	1143	1015	1225	1009	1010	1092	888
Indicator value	98.9%	98.9%	99.3%	98.2%	98.0%	97.5%	97.4%	98.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness



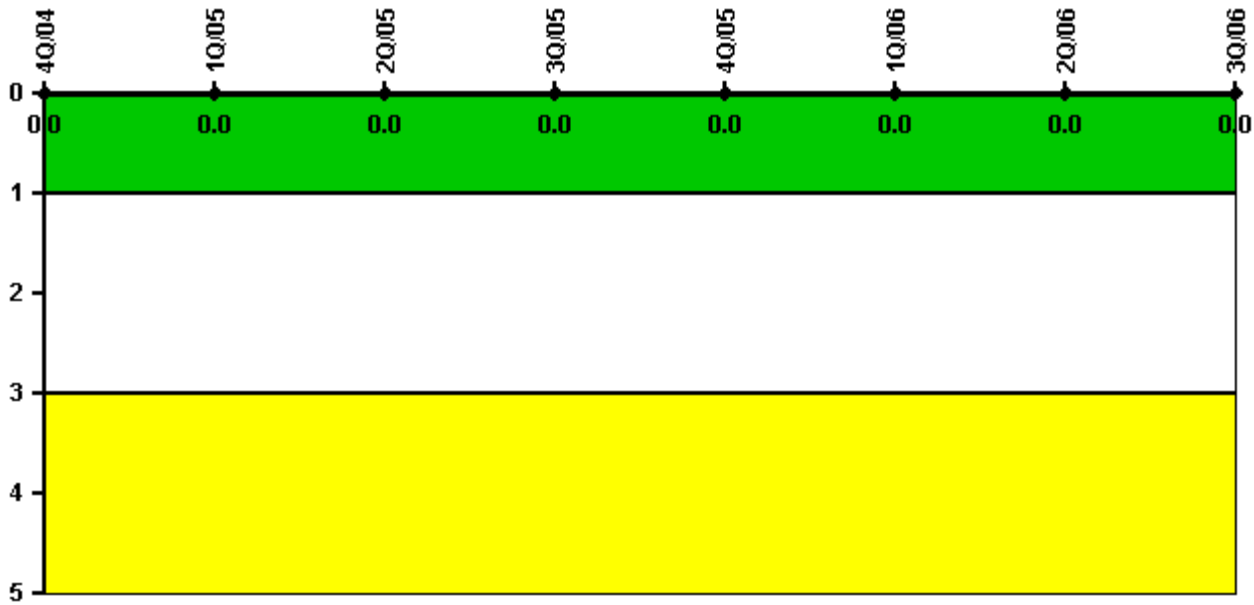
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

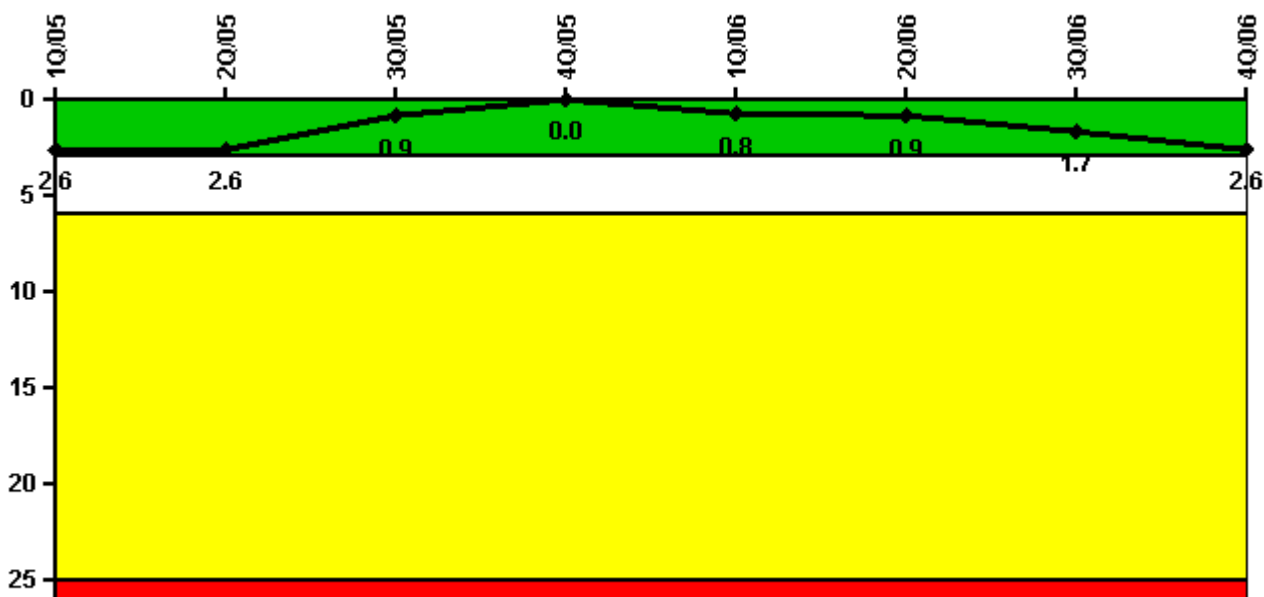
[Physical Protection](#) information not publicly available.

Indian Point 2

4Q/2006 Performance Indicators

Licensee's General Comments: During the NRC inspection for MSPI verification the following discrepancies were identified in the unit 2 MSPI Baseline Unavailability Data prepared in accordance with the requirements in Appendix G of NEI-99-02: MSPI06 EDG Train A: 48 hours of service water support system unavailability hours were subtracted from the baseline unavailability hours of the Train A EDG and not added to the service water baseline unavailable hours. PI remained in the Green Band. MSPI06 Train C: Unplanned and Fault Exposure hours unavailability hours did not reflect the unplanned unavailability hours reported in the PI source record document for the time period 2002-2004. Baseline value was 26 hours but the PI source record document showed 126 hours. PI remained in the Green Band. MSPI07 HHSI Train C: Baseline total planned unavailability hours was 4 hours less than the PI source record document. PI remained in the Green Band.

Unplanned Scrams per 7000 Critical Hrs



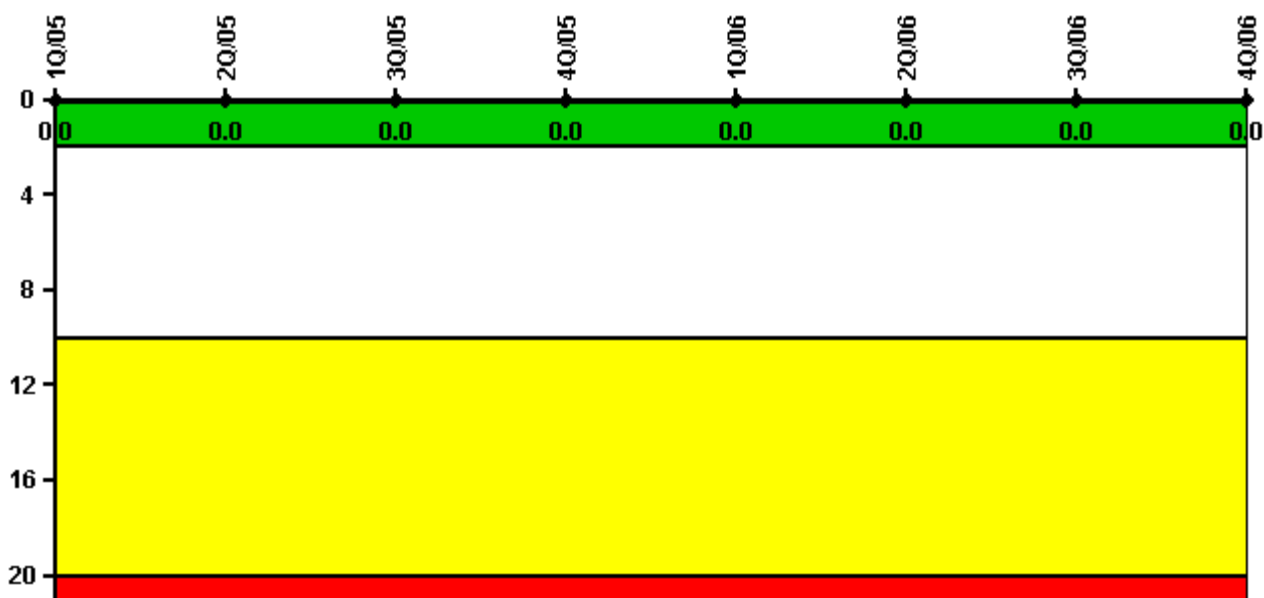
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned scrams	0	0	0	0	1.0	0	1.0	1.0
Critical hours	2160.0	2183.0	2208.0	2209.0	2148.6	1460.3	2187.3	2186.0
Indicator value	2.6	2.6	0.9	0	0.8	0.9	1.7	2.6

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



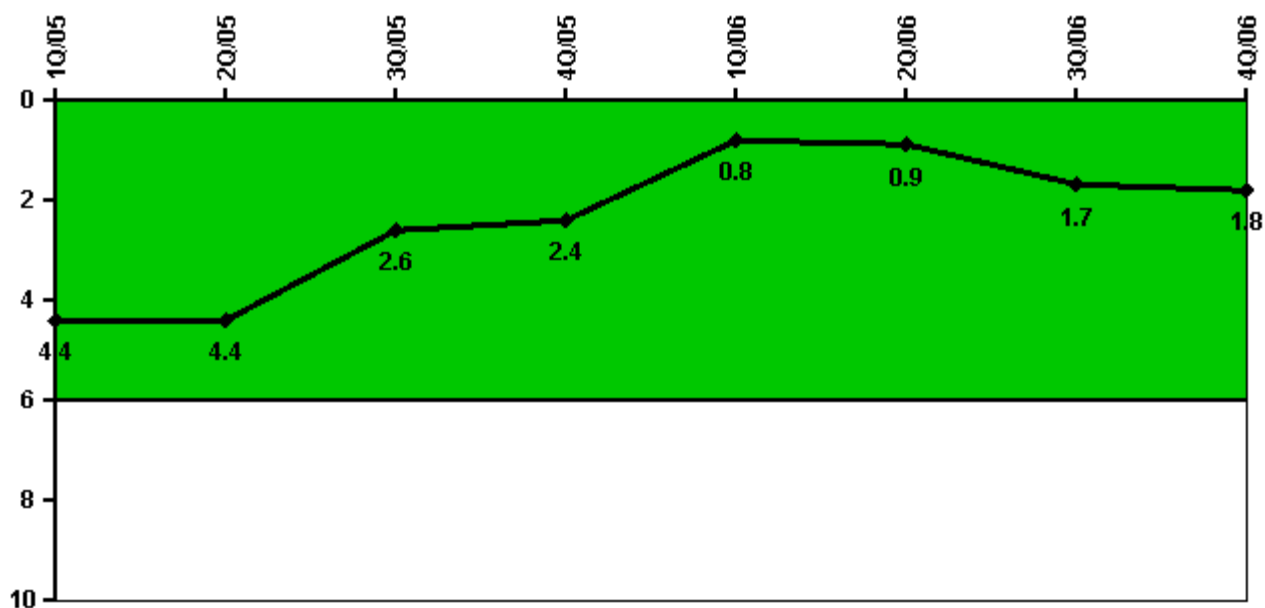
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



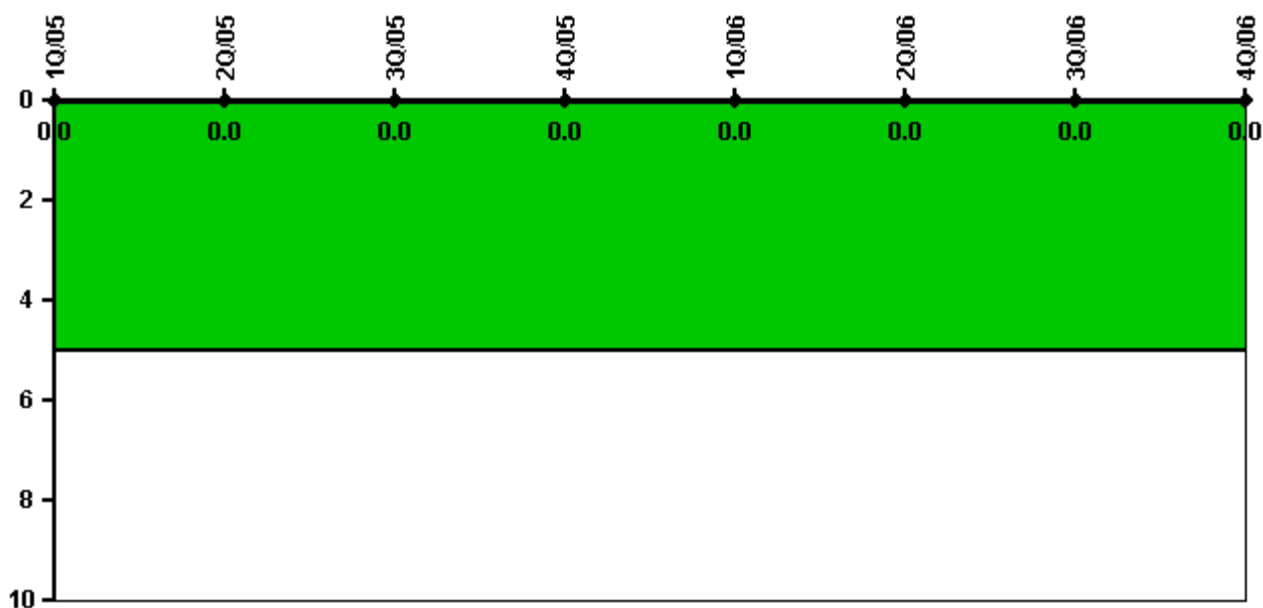
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned power changes	2.0	0	0	1.0	0	0	1.0	1.0
Critical hours	2160.0	2183.0	2208.0	2209.0	2148.6	1460.3	2187.3	2186.0
Indicator value	4.4	4.4	2.6	2.4	0.8	0.9	1.7	1.8

Licensee Comments: none

Safety System Functional Failures (PWR)



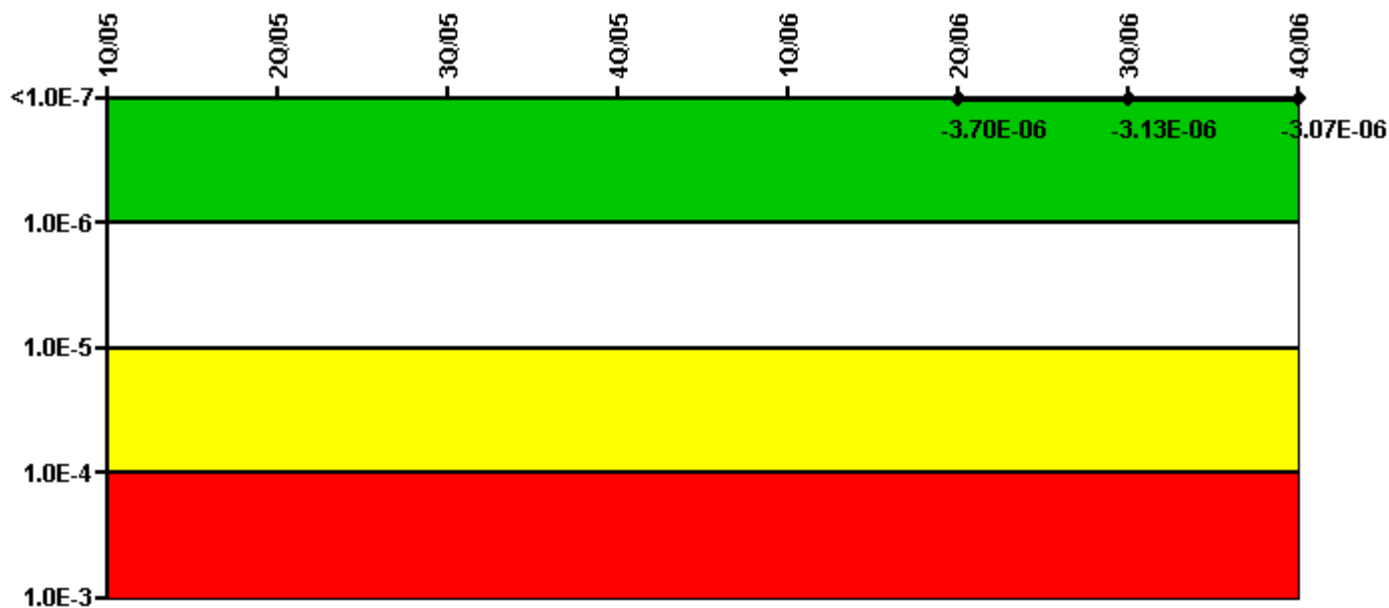
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Safety System Functional Failures	0	0	0	0	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/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						9.80E-08	5.70E-07	6.30E-07
URI (ΔCDF)						-3.80E-06	-3.70E-06	-3.70E-06
PLE						NO	NO	NO
Indicator value						-3.70E-06	-3.13E-06	-3.07E-06

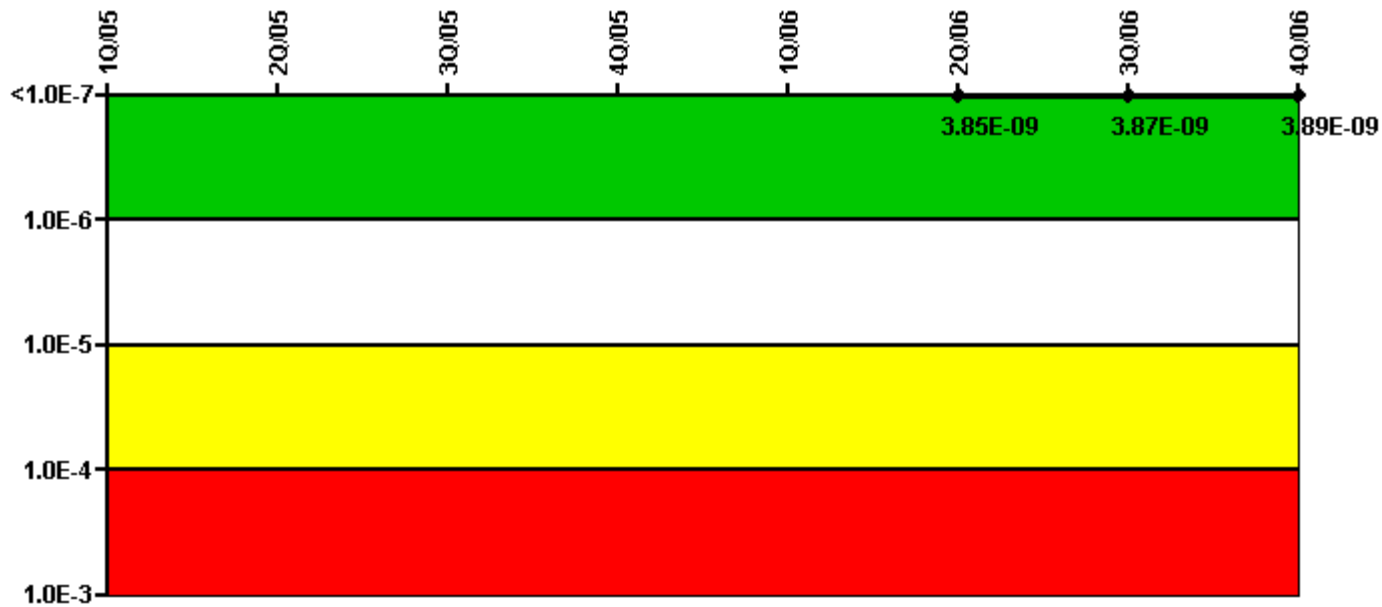
Licensee Comments:

4Q/06: Changed PRA Parameter(s).

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

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

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (Δ CDF)						2.50E-10	2.70E-10	2.90E-10
URI (Δ CDF)						3.60E-09	3.60E-09	3.60E-09
PLE						NO	NO	NO
Indicator value						3.85E-09	3.87E-09	3.89E-09

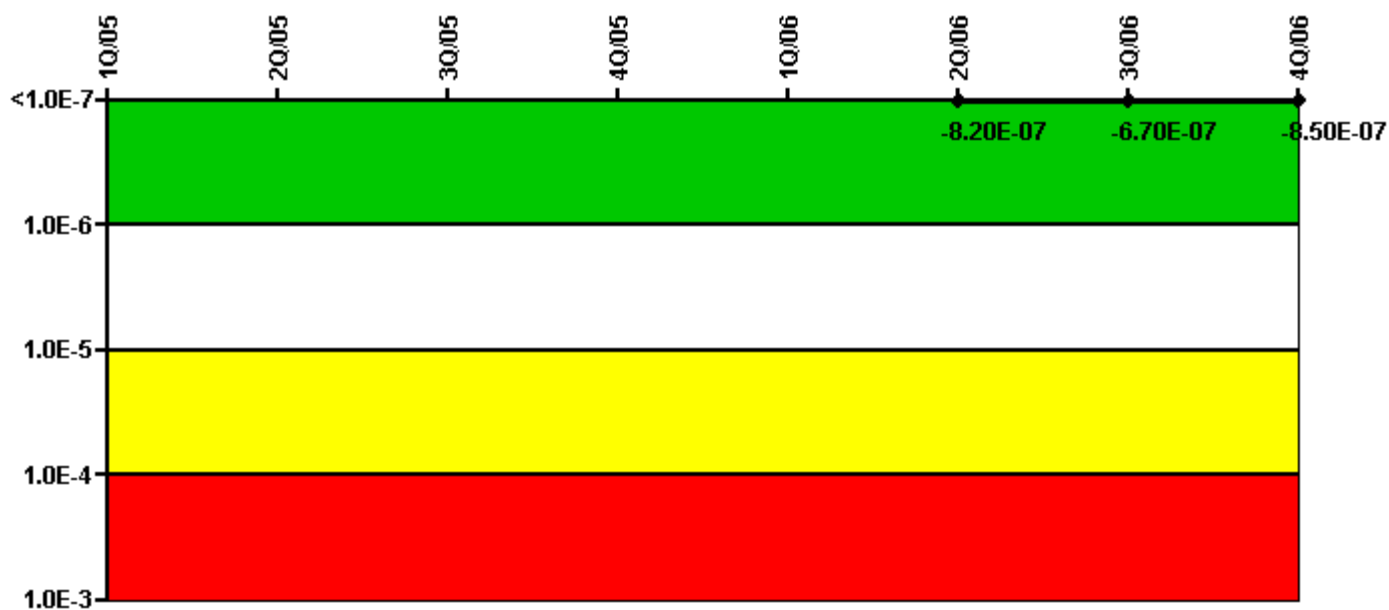
Licensee Comments:

4Q/06: Changed PRA Parameter(s).

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

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

Mitigating Systems Performance Index, Heat Removal System



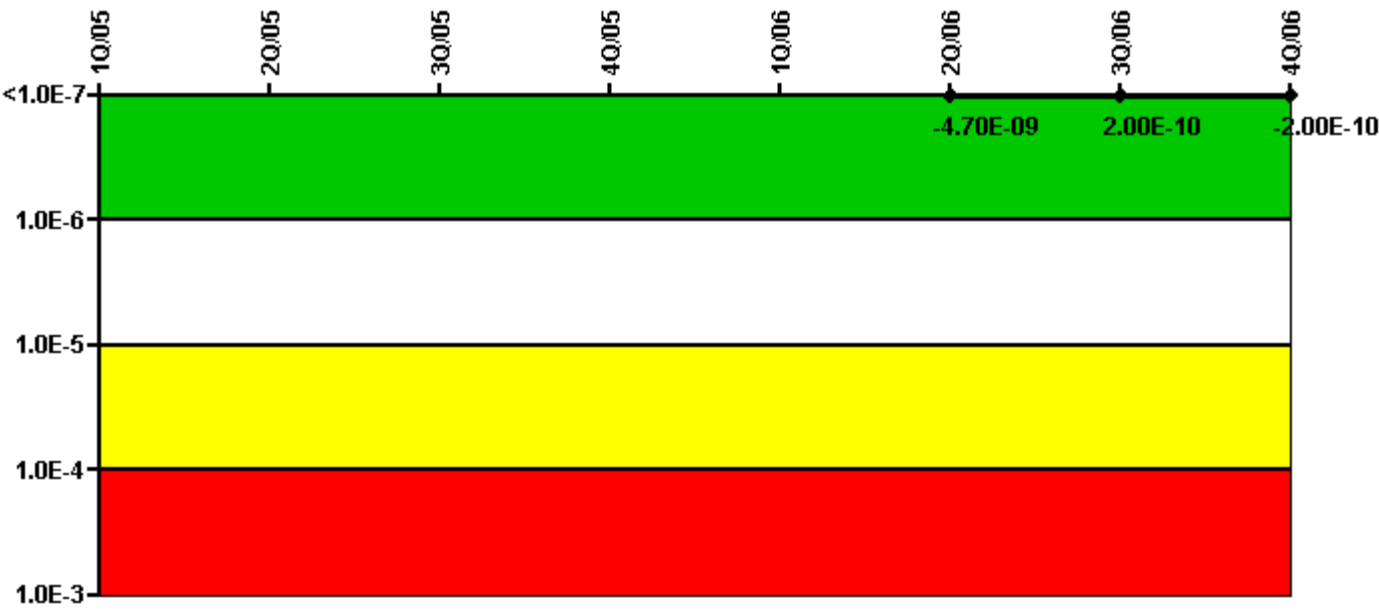
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						2.80E-07	4.30E-07	3.50E-07
URI (ΔCDF)						-1.10E-06	-1.10E-06	-1.20E-06
PLE						NO	NO	NO
Indicator value						-8.20E-07	-6.70E-07	-8.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



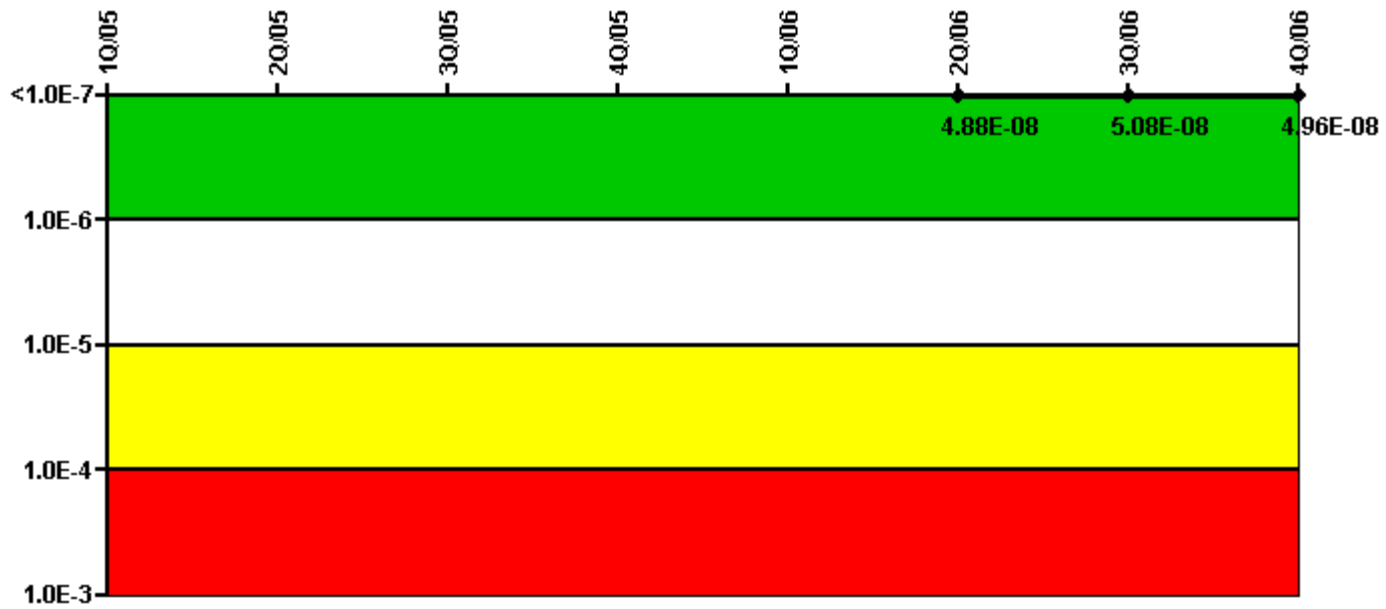
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						-1.10E-08	-5.60E-09	-5.60E-09
URI (ΔCDF)						6.30E-09	5.80E-09	5.40E-09
PLE						NO	NO	NO
Indicator value						-4.70E-09	2.00E-10	-2.00E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



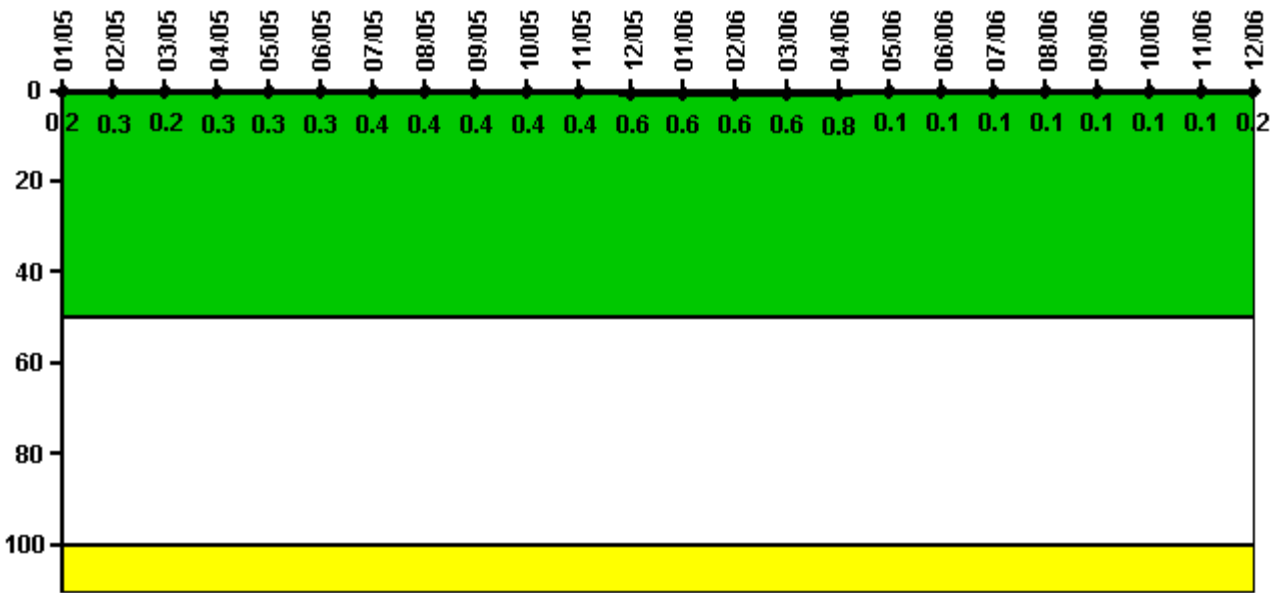
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						1.80E-09	2.80E-09	2.60E-09
URI (ΔCDF)						4.70E-08	4.80E-08	4.70E-08
PLE						NO	NO	NO
Indicator value						4.88E-08	5.08E-08	4.96E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

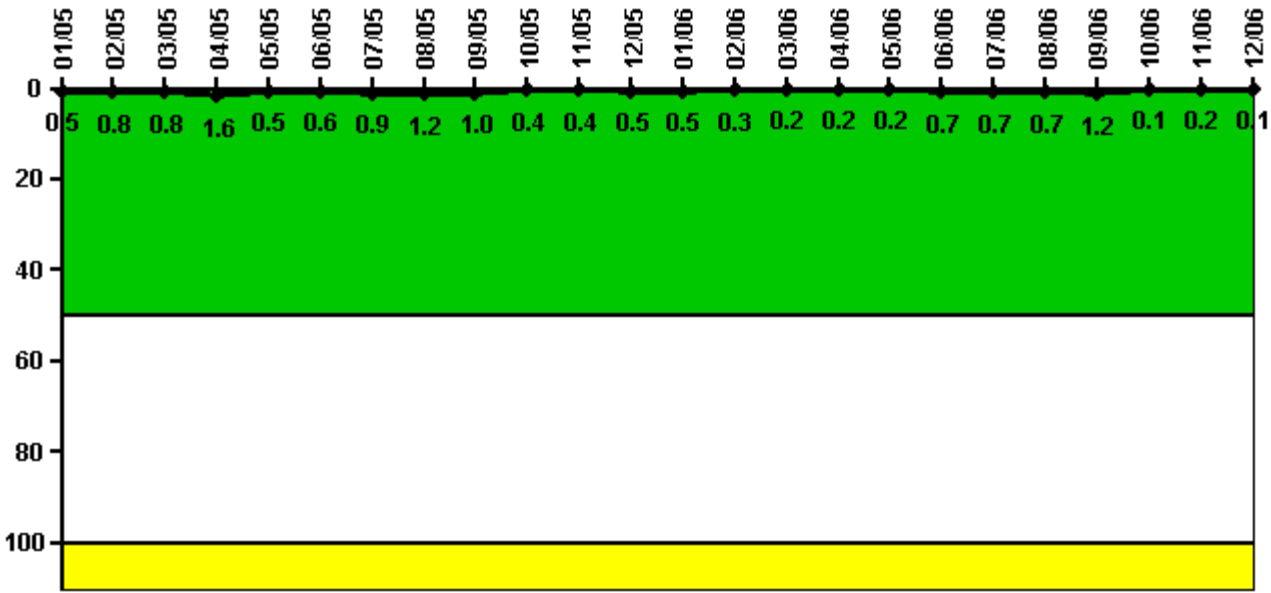
Notes

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	0.001870	0.003270	0.002140	0.002800	0.002630	0.003450	0.003840	0.004020	0.003970	0.004350	0.004420	0.005530
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.3	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.6

Reactor Coolant System Activity	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum activity	0.005620	0.005750	0.005910	0.008170	0.001100	0.001260	0.001360	0.001380	0.001310	0.001410	0.001480	0.001600
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.6	0.6	0.6	0.8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2

Licensee Comments: none

Reactor Coolant System Leakage

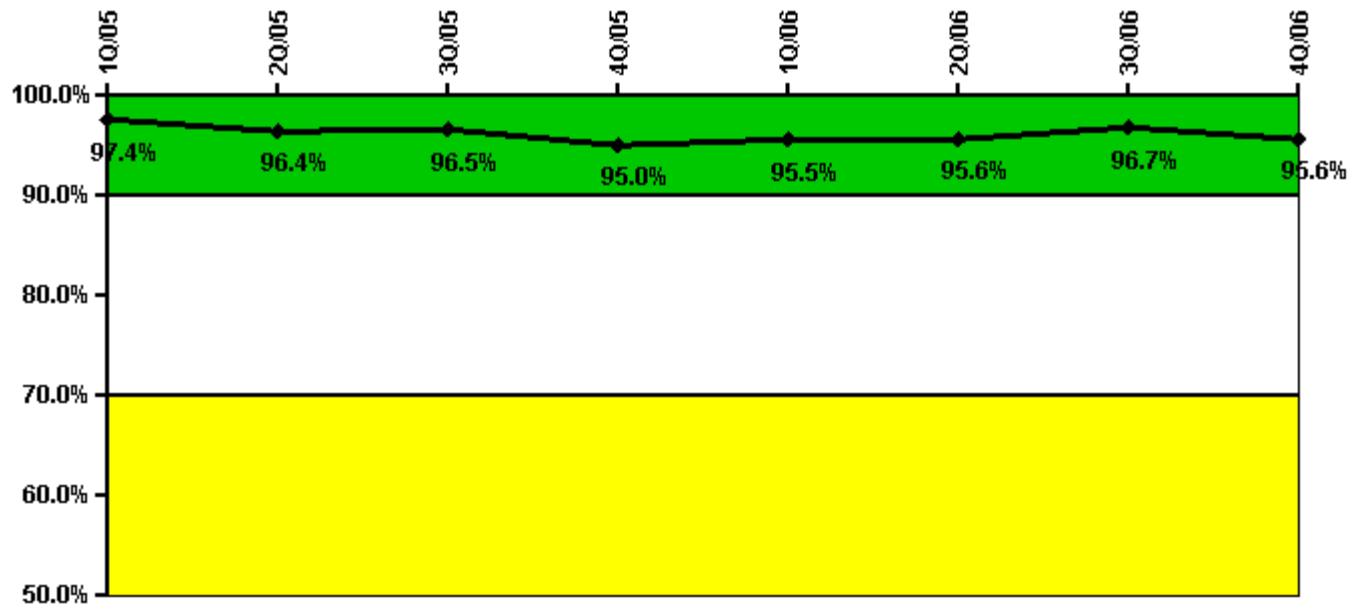


Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.051	0.075	0.075	0.160	0.054	0.064	0.094	0.124	0.097	0.036	0.035	0.054
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.5	0.8	0.8	1.6	0.5	0.6	0.9	1.2	1.0	0.4	0.4	0.5
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	0.054	0.030	0.024	0.023	0.022	0.065	0.069	0.069	0.120	0.011	0.020	0.010
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.5	0.3	0.2	0.2	0.2	0.7	0.7	0.7	1.2	0.1	0.2	0.1

Licensee Comments: none

Drill/Exercise Performance

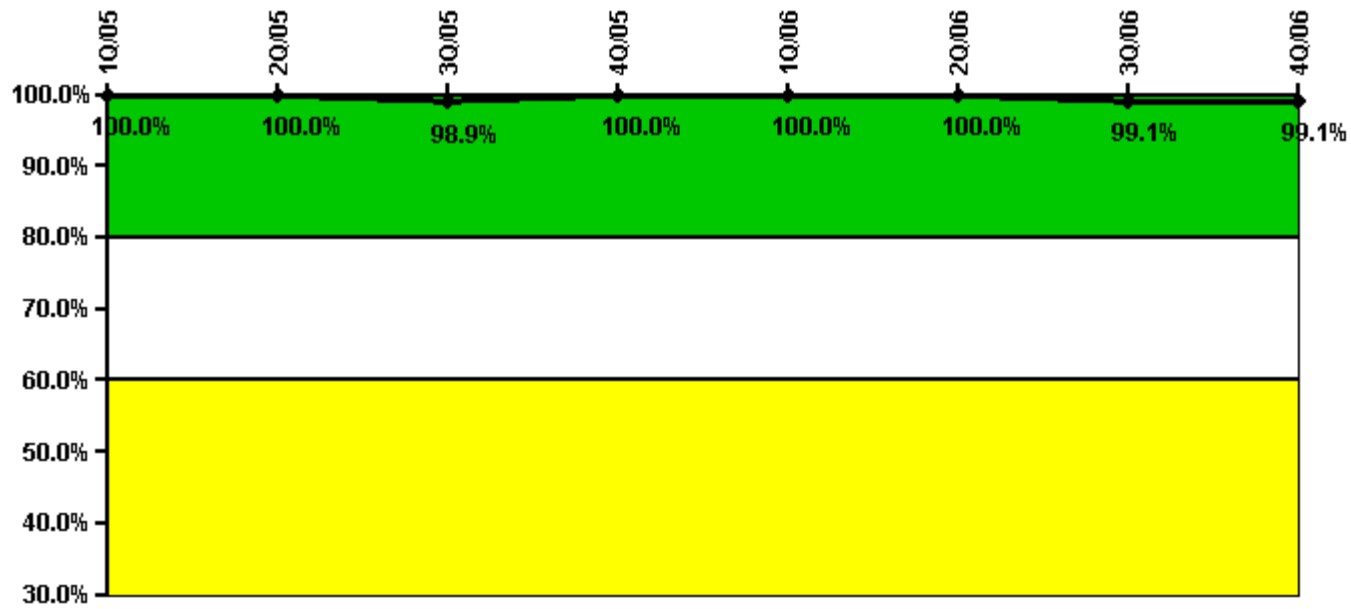
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful opportunities	12.0	17.0	27.0	11.0	37.0	30.0	73.0	11.0
Total opportunities	14.0	19.0	27.0	13.0	38.0	30.0	73.0	14.0
Indicator value	97.4%	96.4%	96.5%	95.0%	95.5%	95.6%	96.7%	95.6%

Licensee Comments: none

ERO Drill Participation



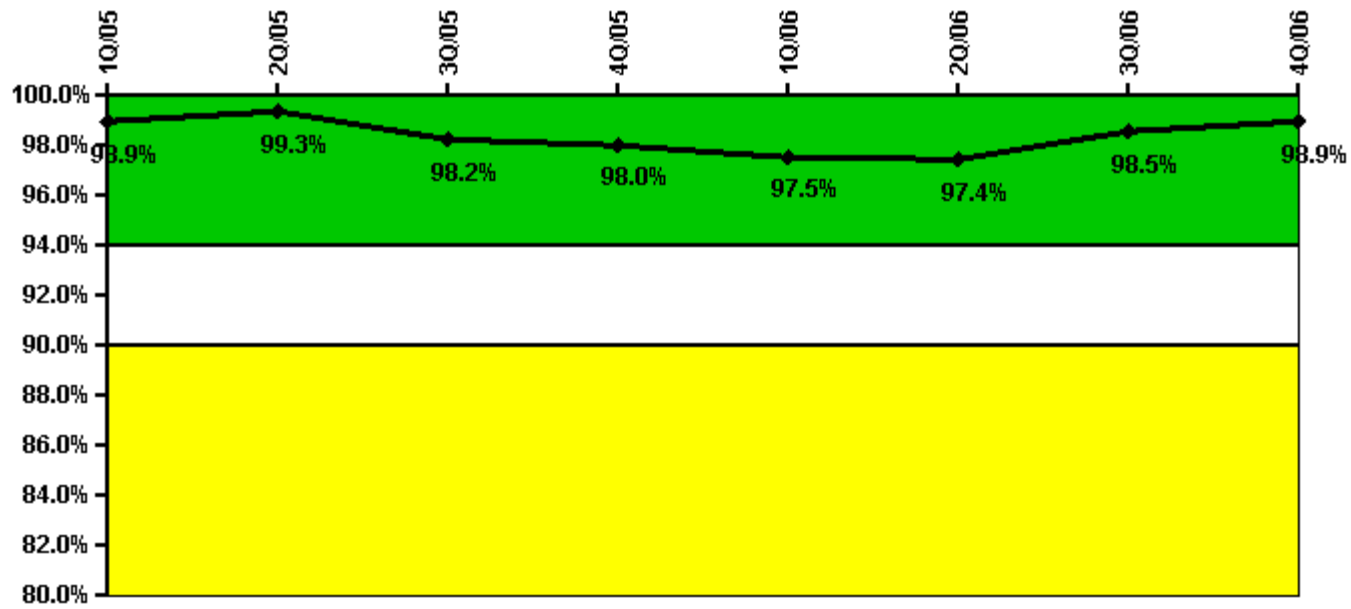
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Participating Key personnel	57.0	95.0	93.0	94.0	103.0	103.0	105.0	106.0
Total Key personnel	57.0	95.0	94.0	94.0	103.0	103.0	106.0	107.0
Indicator value	100.0%	100.0%	98.9%	100.0%	100.0%	100.0%	99.1%	99.1%

Licensee Comments: none

Alert & Notification System



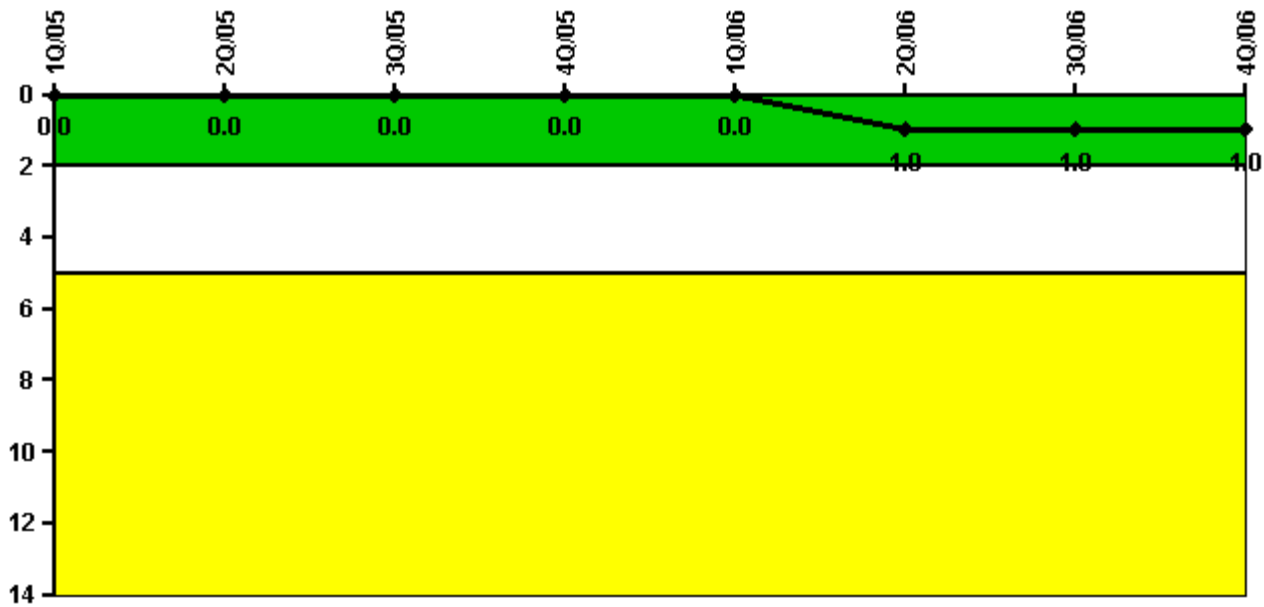
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful siren-tests	1134	1014	1164	992	984	1083	882	885
Total sirens-tests	1143	1015	1225	1009	1010	1092	888	888
Indicator value	98.9%	99.3%	98.2%	98.0%	97.5%	97.4%	98.5%	98.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



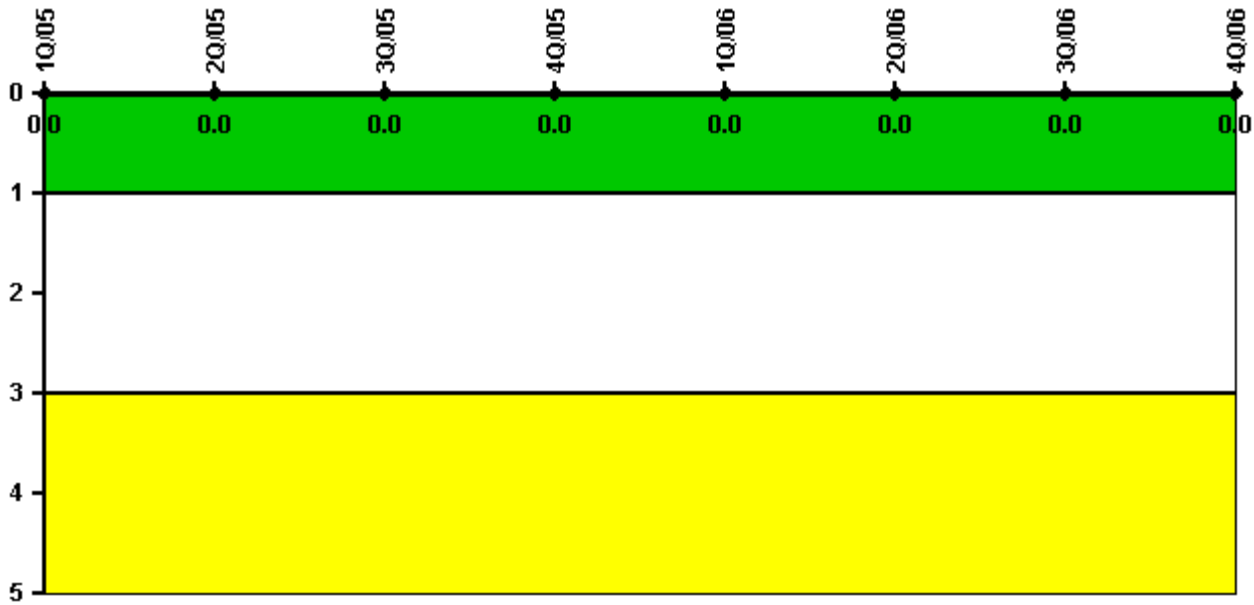
Thresholds: White > 2.0 Yellow > 5.0

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	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	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

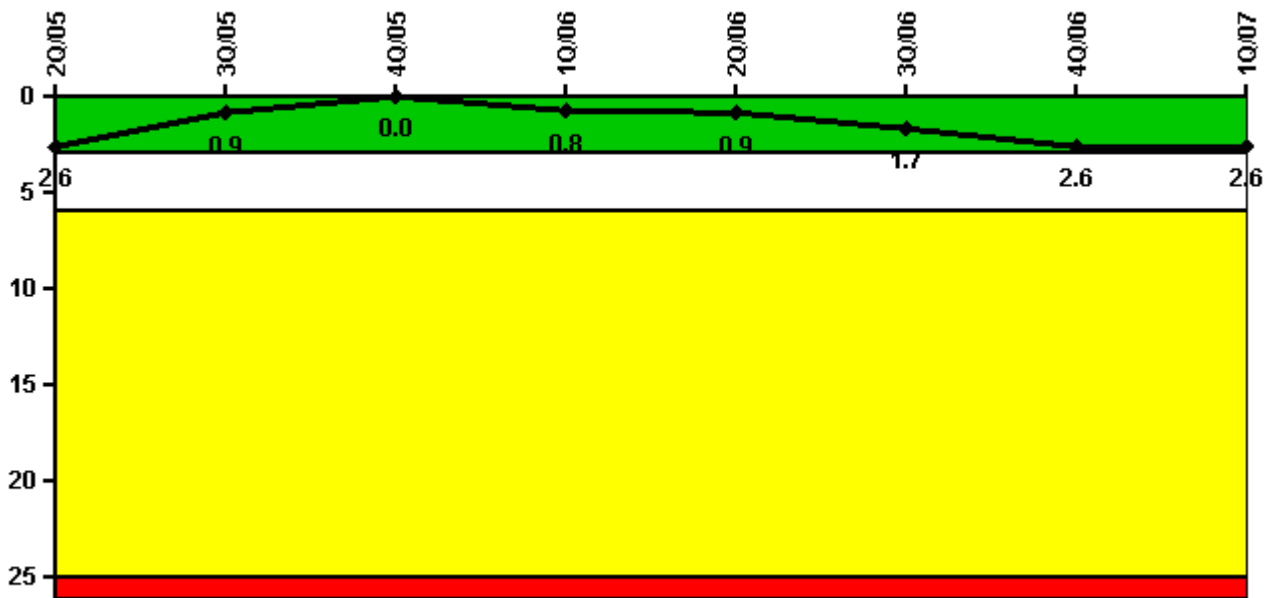
[Physical Protection](#) information not publicly available.

Indian Point 2

1Q/2007 Performance Indicators

Licensee's General Comments: PI IE01: Manual reactor trip February 28, 2007, due to decreasing steam generator levels as a result of a loss of main feedwater (FW) flow caused by a main FW pump suction pressure transmitter power supply failure. This event along with three previous reactor trips during the last four quarters caused the PI to exceed the Green limit for one day (2/28/07). On March 1, 2007, a reactor trip on March 1, 2006, was deleted by four quarter roll-off and the PI returned to the Green Band. PI IE02: The manual reactor trip on February 28, 2007, due to decreasing steam generator levels caused by a main feedwater (FW) pump suction pressure transmitter power supply failure was a result of a loss of FW flow. The speed of both main FW pumps (turbine driven) was cutback due to signal to the controller from the failed low condition of the FW pump suction pressure transmitter. There was no simple procedural means to override the cutback signal to recover main FW flow to the steam generators. LER-2007-004.

Unplanned Scrams per 7000 Critical Hrs



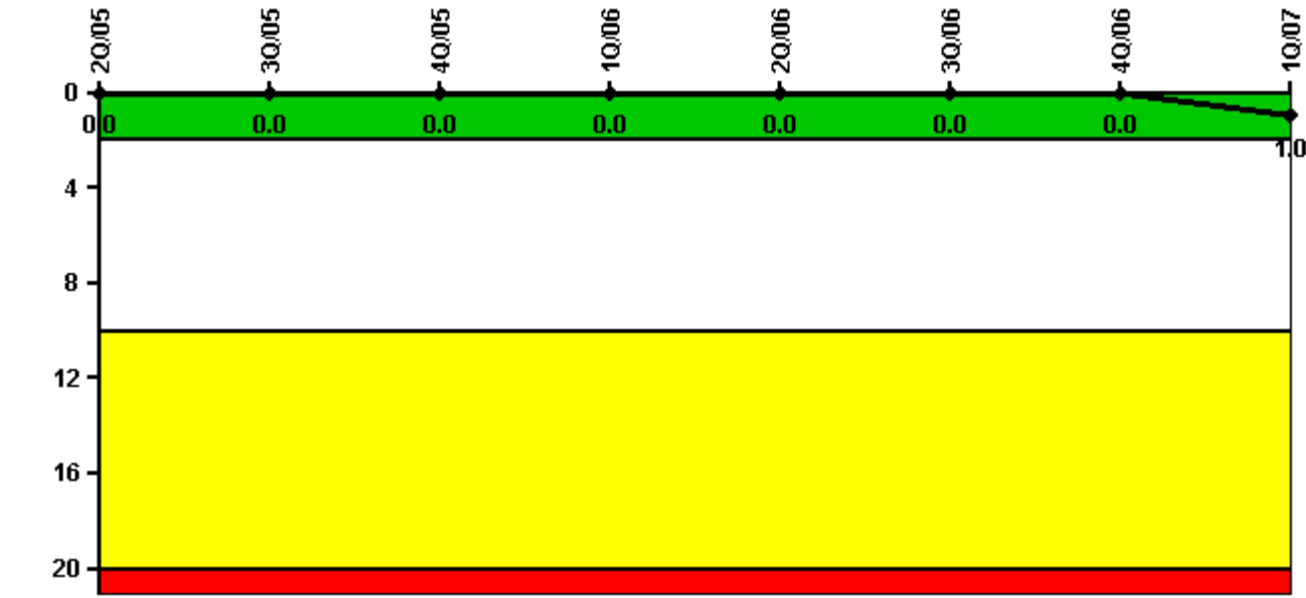
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned scrams	0	0	0	1.0	0	1.0	1.0	1.0
Critical hours	2183.0	2208.0	2209.0	2148.6	1460.3	2187.3	2186.0	2144.9
Indicator value	2.6	0.9	0	0.8	0.9	1.7	2.6	2.6

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



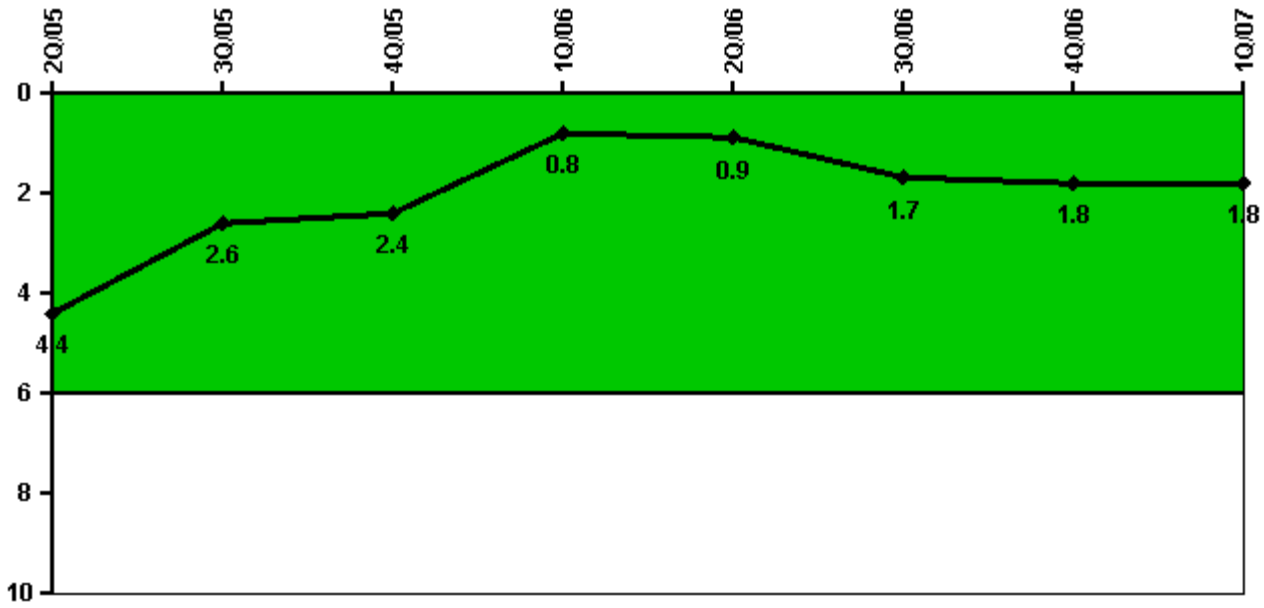
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



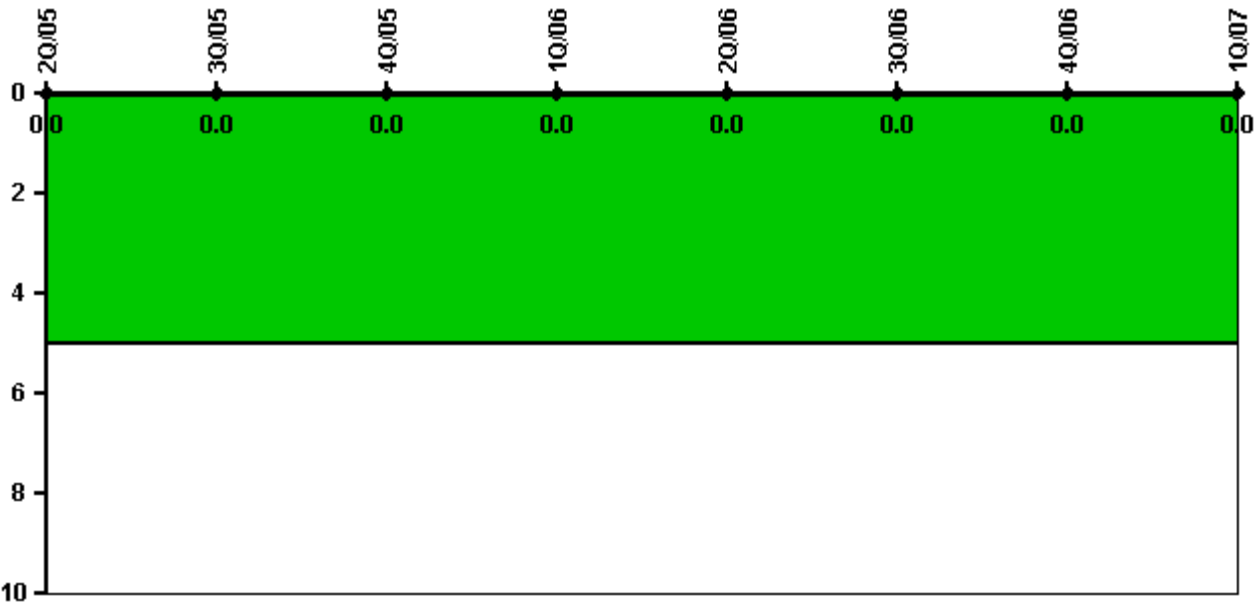
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned power changes	0	0	1.0	0	0	1.0	1.0	0
Critical hours	2183.0	2208.0	2209.0	2148.6	1460.3	2187.3	2186.0	2144.9
Indicator value	4.4	2.6	2.4	0.8	0.9	1.7	1.8	1.8

Licensee Comments: none

Safety System Functional Failures (PWR)



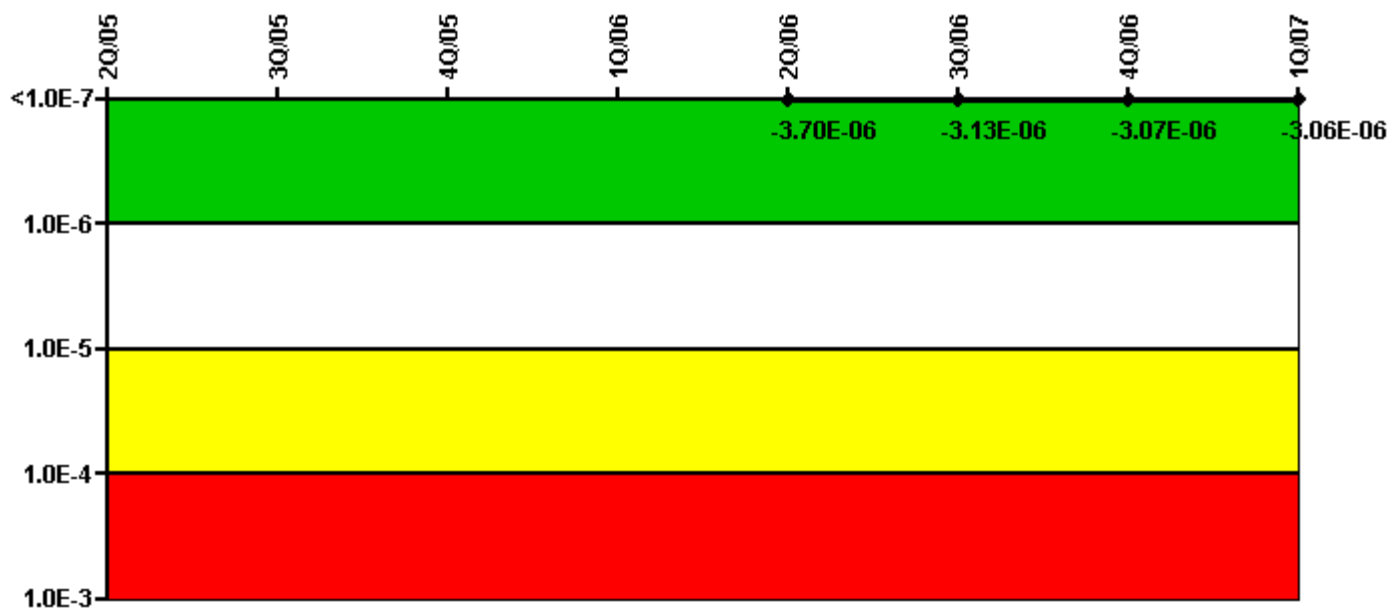
Thresholds: White > 5.0

Notes

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



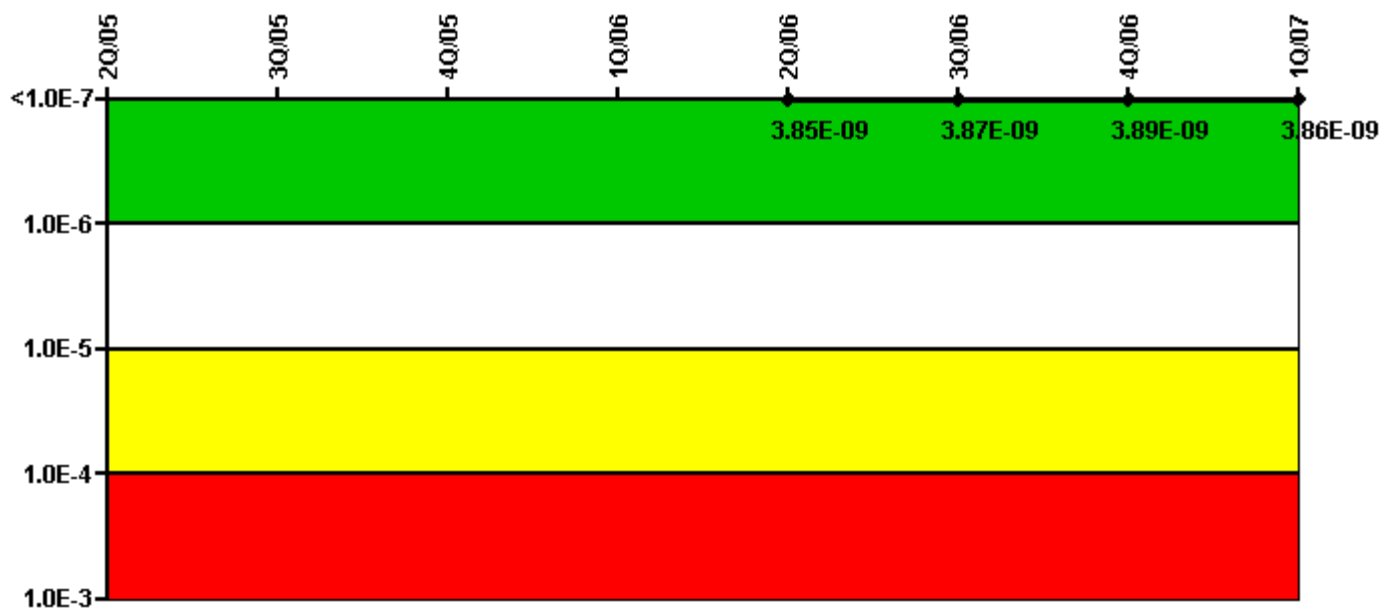
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					9.80E-08	5.70E-07	6.30E-07	6.40E-07
URI (ΔCDF)					-3.80E-06	-3.70E-06	-3.70E-06	-3.70E-06
PLE					NO	NO	NO	NO
Indicator value					-3.70E-06	-3.13E-06	-3.07E-06	-3.06E-06

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



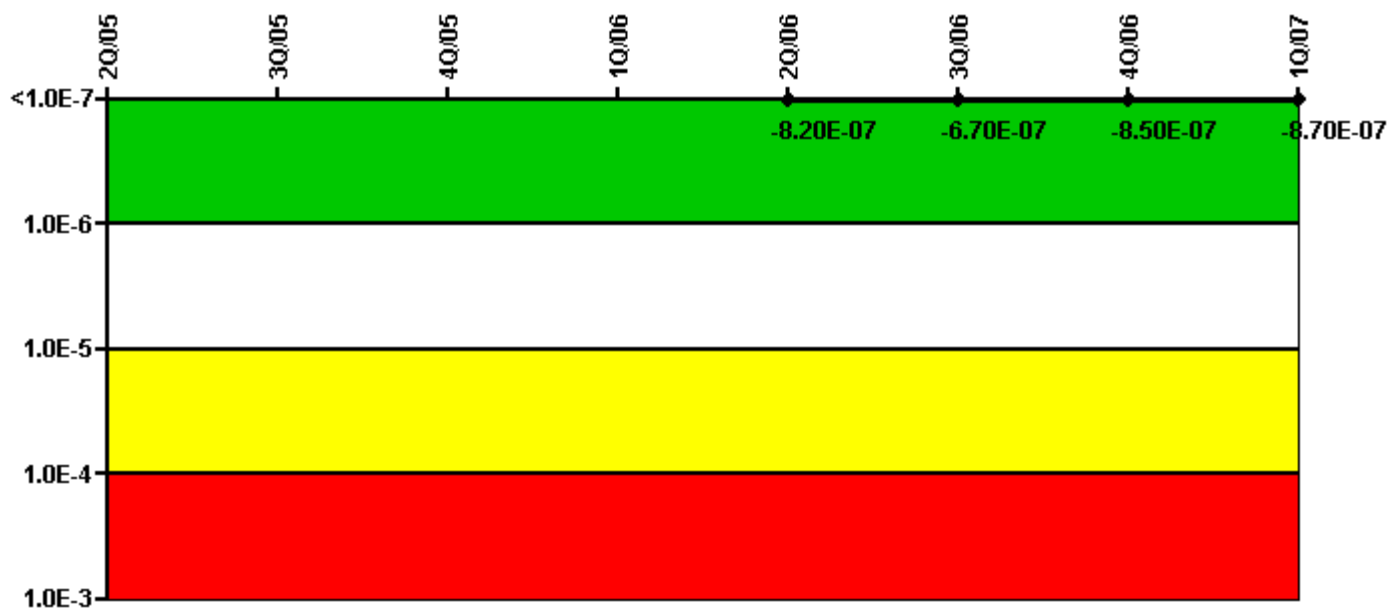
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)					2.50E-10	2.70E-10	2.90E-10	2.60E-10
URI (ΔCDF)					3.60E-09	3.60E-09	3.60E-09	3.60E-09
PLE					NO	NO	NO	NO
Indicator value					3.85E-09	3.87E-09	3.89E-09	3.86E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



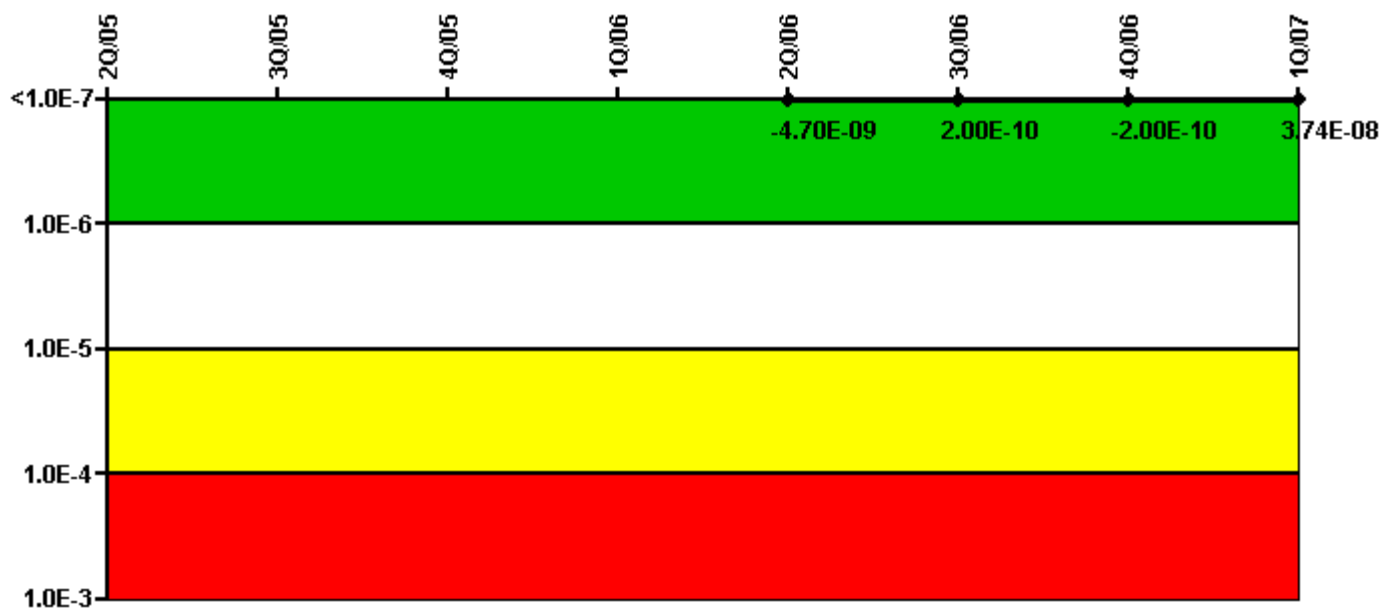
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					2.80E-07	4.30E-07	3.50E-07	3.30E-07
URI (ΔCDF)					-1.10E-06	-1.10E-06	-1.20E-06	-1.20E-06
PLE					NO	NO	NO	NO
Indicator value					-8.20E-07	-6.70E-07	-8.50E-07	-8.70E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



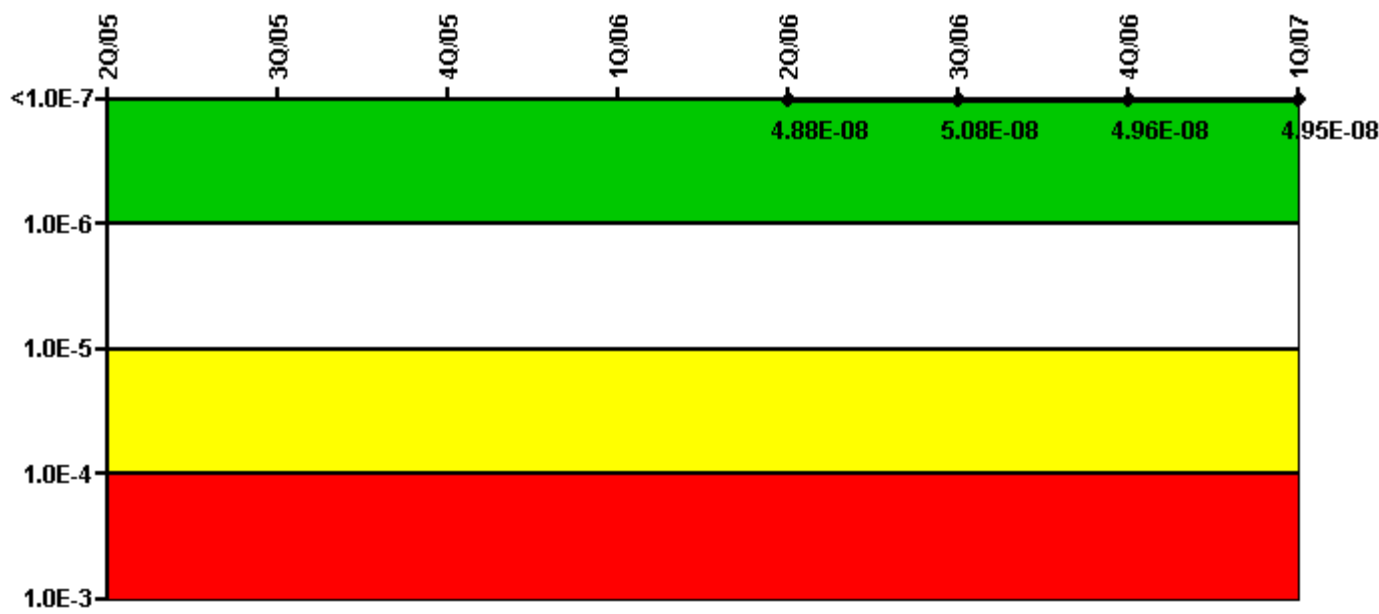
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)					-1.10E-08	-5.60E-09	-5.60E-09	-5.60E-09
URI (ΔCDF)					6.30E-09	5.80E-09	5.40E-09	4.30E-08
PLE					NO	NO	NO	NO
Indicator value					-4.70E-09	2.00E-10	-2.00E-10	3.74E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



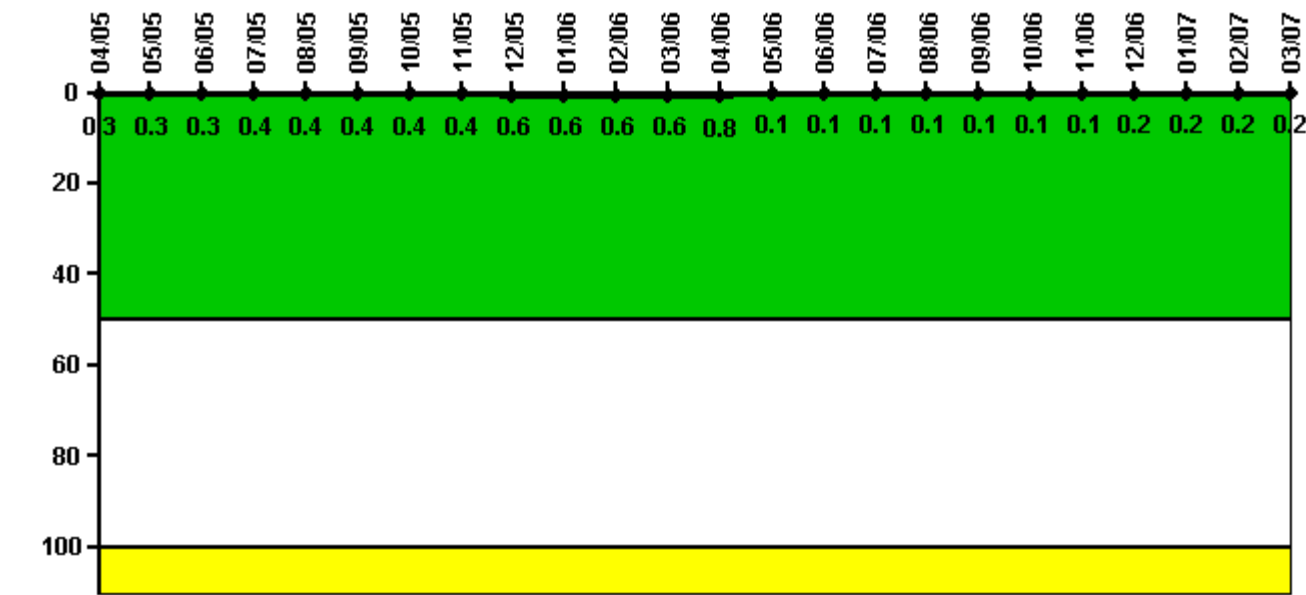
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					1.80E-09	2.80E-09	2.60E-09	2.50E-09
URI (ΔCDF)					4.70E-08	4.80E-08	4.70E-08	4.70E-08
PLE					NO	NO	NO	NO
Indicator value					4.88E-08	5.08E-08	4.96E-08	4.95E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

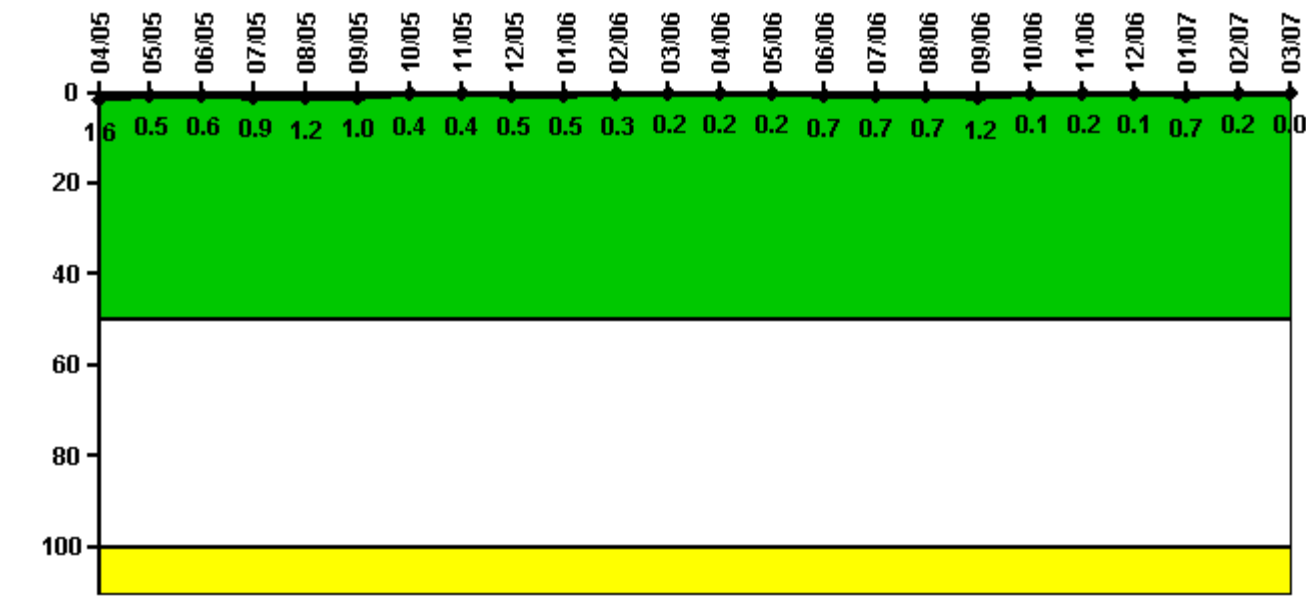
Notes

Reactor Coolant System Activity	4/05	5/05	6/05	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06
Maximum activity	0.002800	0.002630	0.003450	0.003840	0.004020	0.003970	0.004350	0.004420	0.005530	0.005620	0.005750	0.005910
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6

Reactor Coolant System Activity	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum activity	0.008170	0.001100	0.001260	0.001360	0.001380	0.001310	0.001410	0.001480	0.001600	0.001540	0.001580	0.001650
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

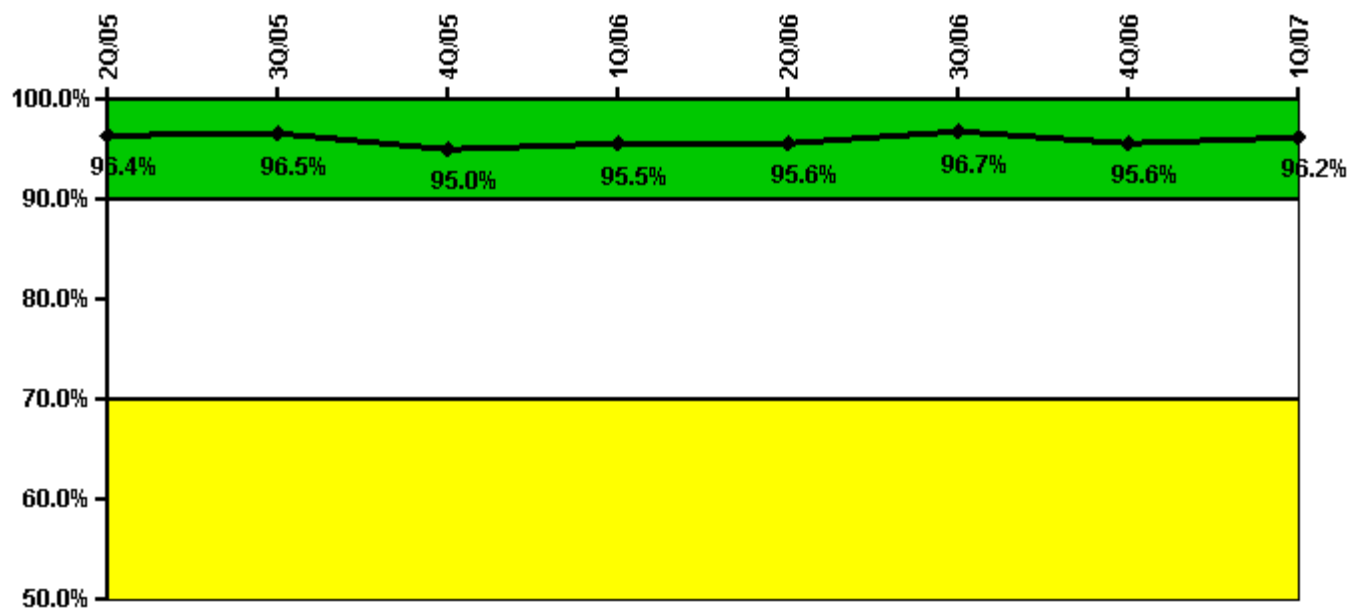
Notes

Reactor Coolant System Leakage	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	0.160	0.054	0.064	0.094	0.124	0.097	0.036	0.035	0.054	0.054	0.030	0.024
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.6	0.5	0.6	0.9	1.2	1.0	0.4	0.4	0.5	0.5	0.3	0.2

Reactor Coolant System Leakage	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum leakage	0.023	0.022	0.065	0.069	0.069	0.120	0.011	0.020	0.010	0.070	0.020	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	0.2	0.2	0.7	0.7	0.7	1.2	0.1	0.2	0.1	0.7	0.2	0

Licensee Comments: none

Drill/Exercise Performance



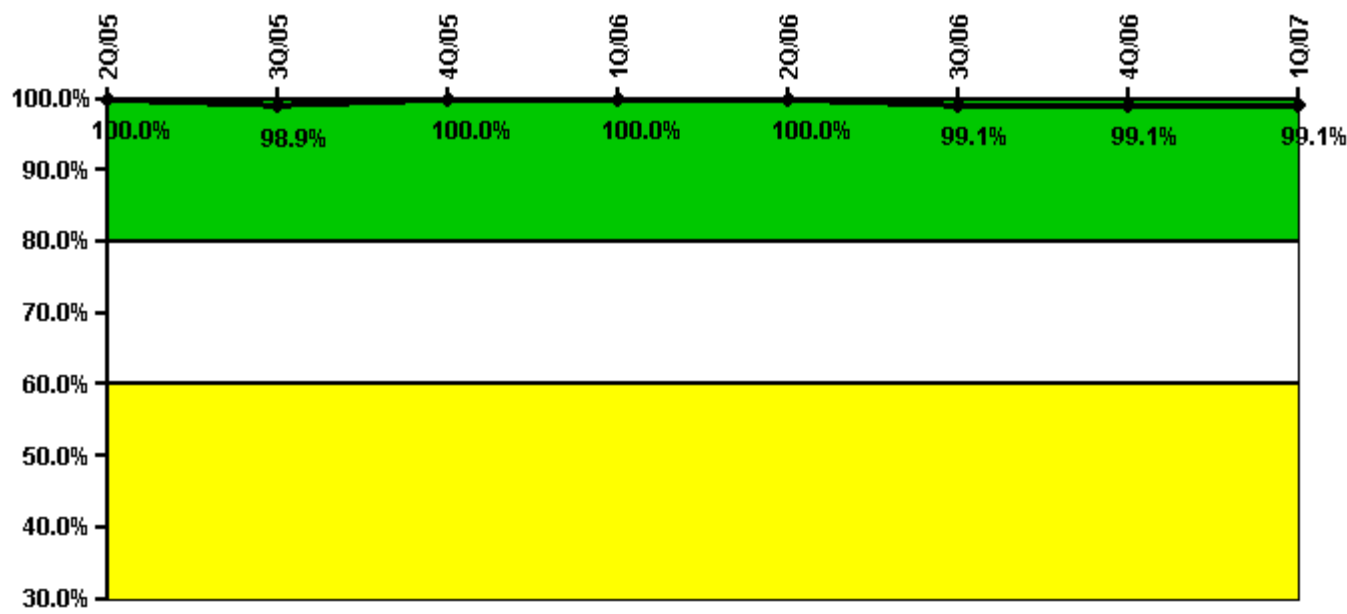
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful opportunities	17.0	27.0	11.0	37.0	30.0	73.0	11.0	19.0
Total opportunities	19.0	27.0	13.0	38.0	30.0	73.0	14.0	20.0
Indicator value	96.4%	96.5%	95.0%	95.5%	95.6%	96.7%	95.6%	96.2%

Licensee Comments: none

ERO Drill Participation



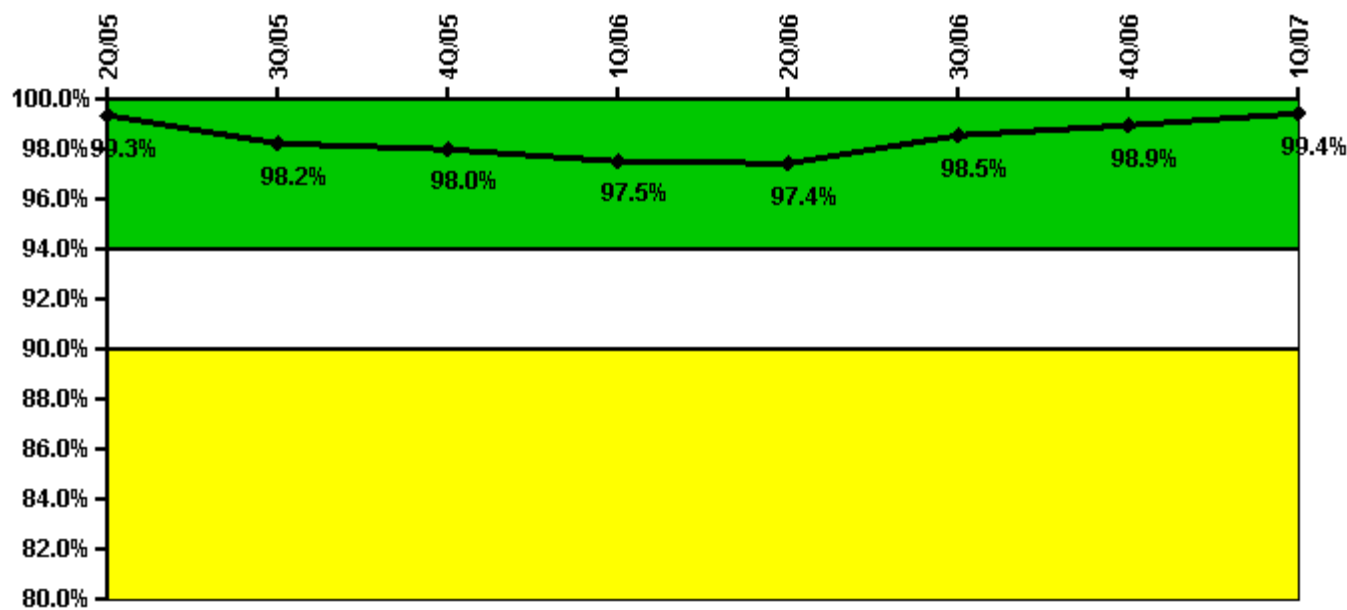
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Participating Key personnel	95.0	93.0	94.0	103.0	103.0	105.0	106.0	106.0
Total Key personnel	95.0	94.0	94.0	103.0	103.0	106.0	107.0	107.0
Indicator value	100.0%	98.9%	100.0%	100.0%	100.0%	99.1%	99.1%	99.1%

Licensee Comments: none

Alert & Notification System



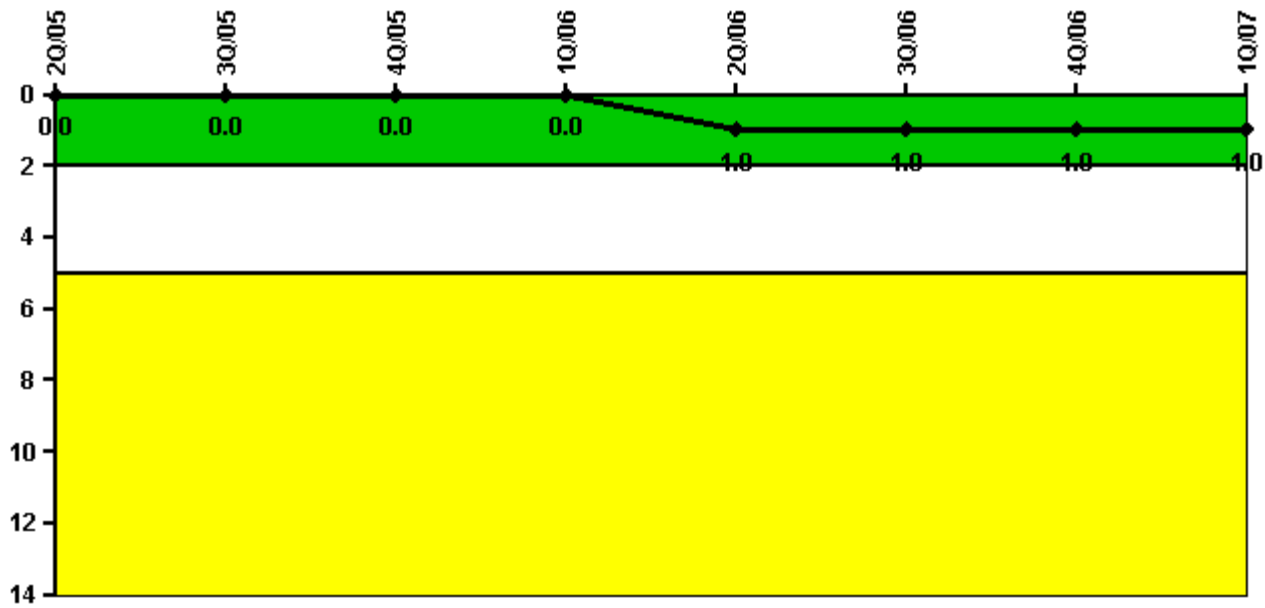
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful siren-tests	1014	1164	992	984	1083	882	885	728
Total sirens-tests	1015	1225	1009	1010	1092	888	888	732
Indicator value	99.3%	98.2%	98.0%	97.5%	97.4%	98.5%	98.9%	99.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness



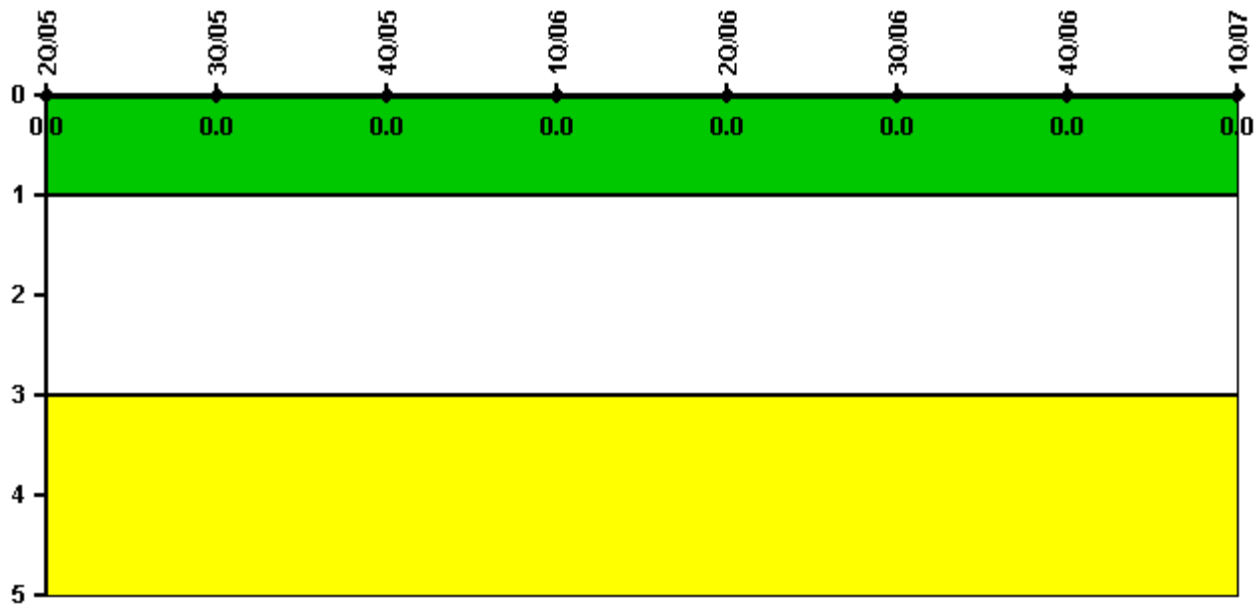
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	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	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](#)

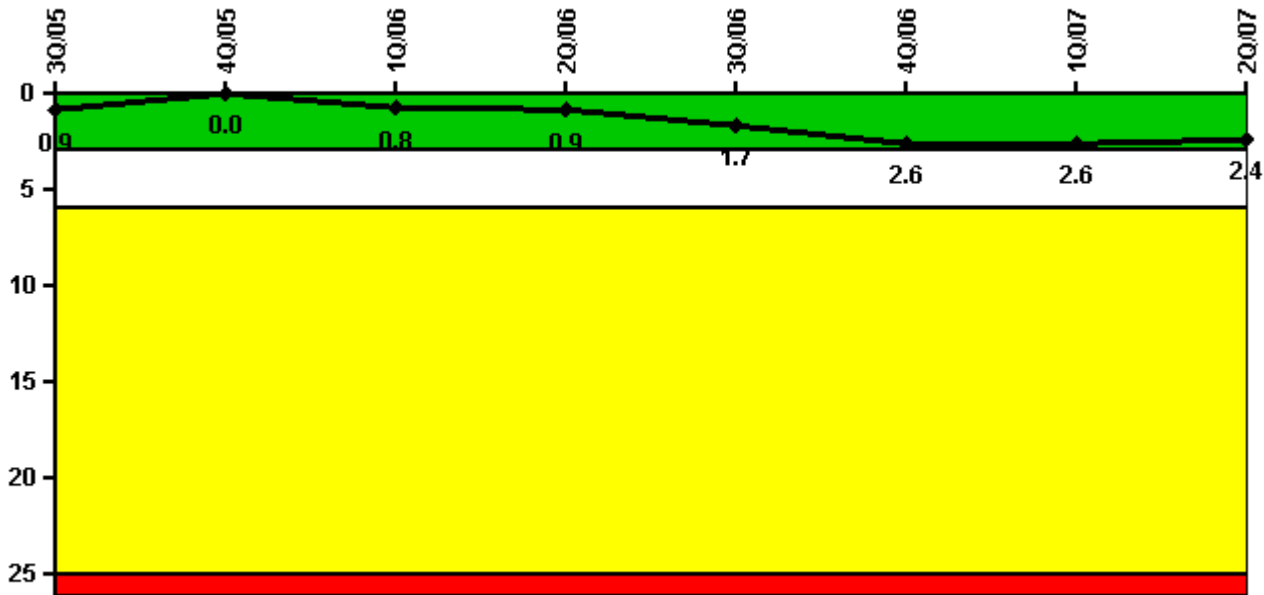
Last Modified: June 1, 2007

Indian Point 2

2Q/2007 Performance Indicators

Licensee's General Comments: PI EP02: PI revised to correct an error reporting of qualified individuals that did not participate and for not counting a qualified individual.

Unplanned Scrams per 7000 Critical Hrs



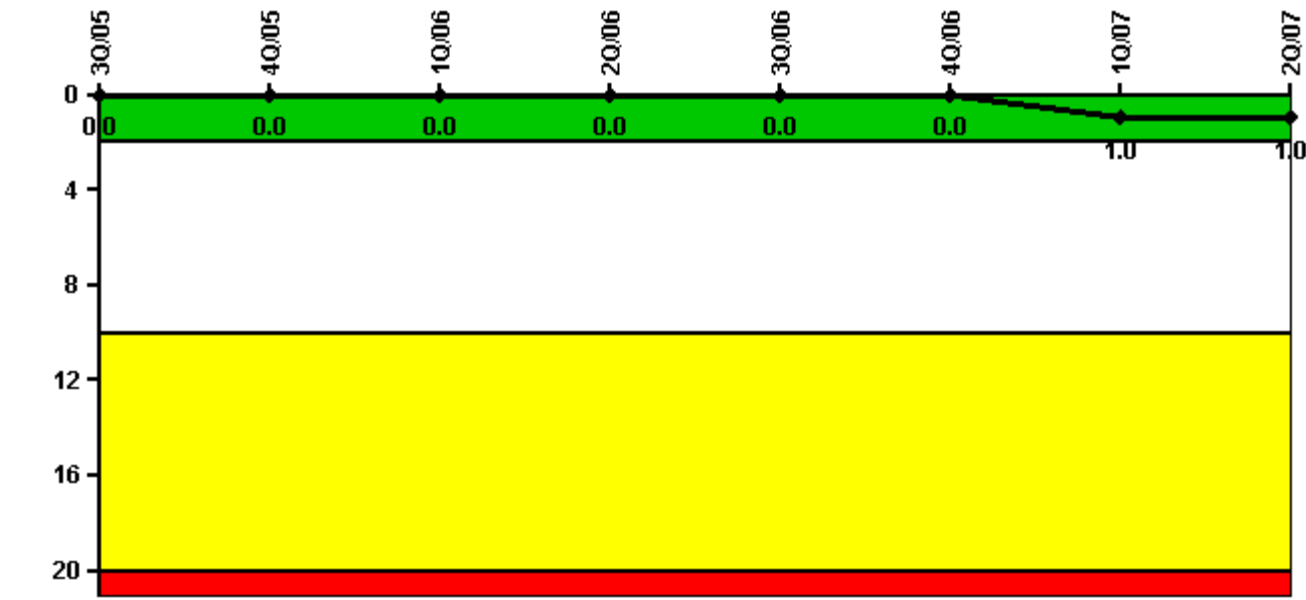
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned scrams	0	0	1.0	0	1.0	1.0	1.0	0
Critical hours	2208.0	2209.0	2148.6	1460.3	2187.3	2186.0	2144.9	2184.0
Indicator value	0.9	0	0.8	0.9	1.7	2.6	2.6	2.4

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



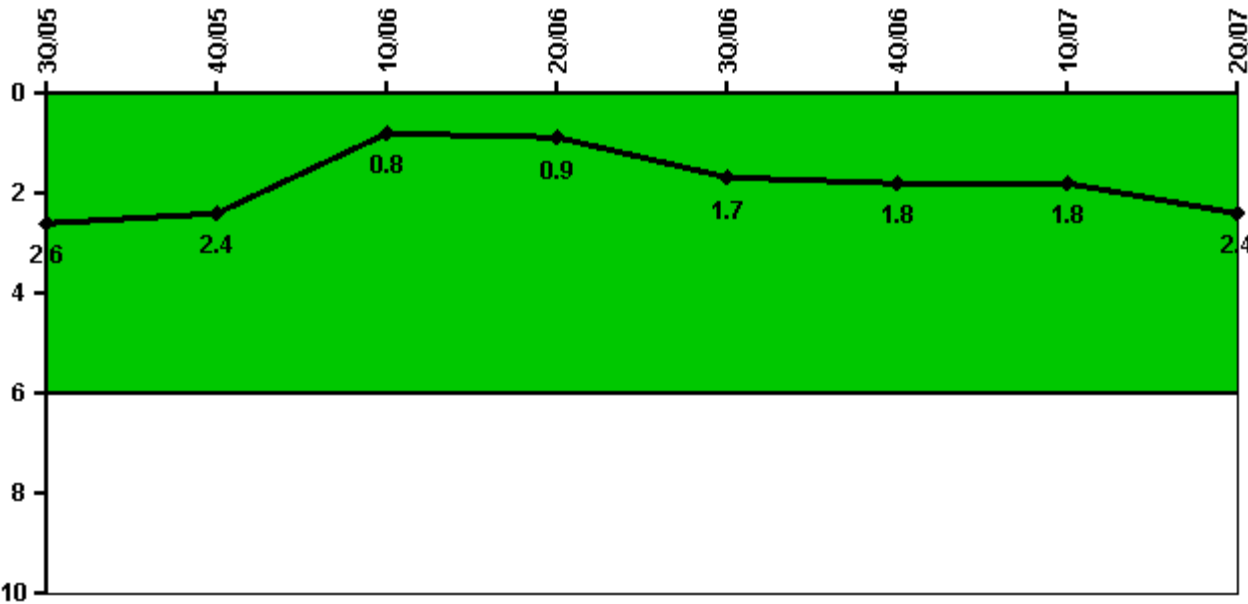
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



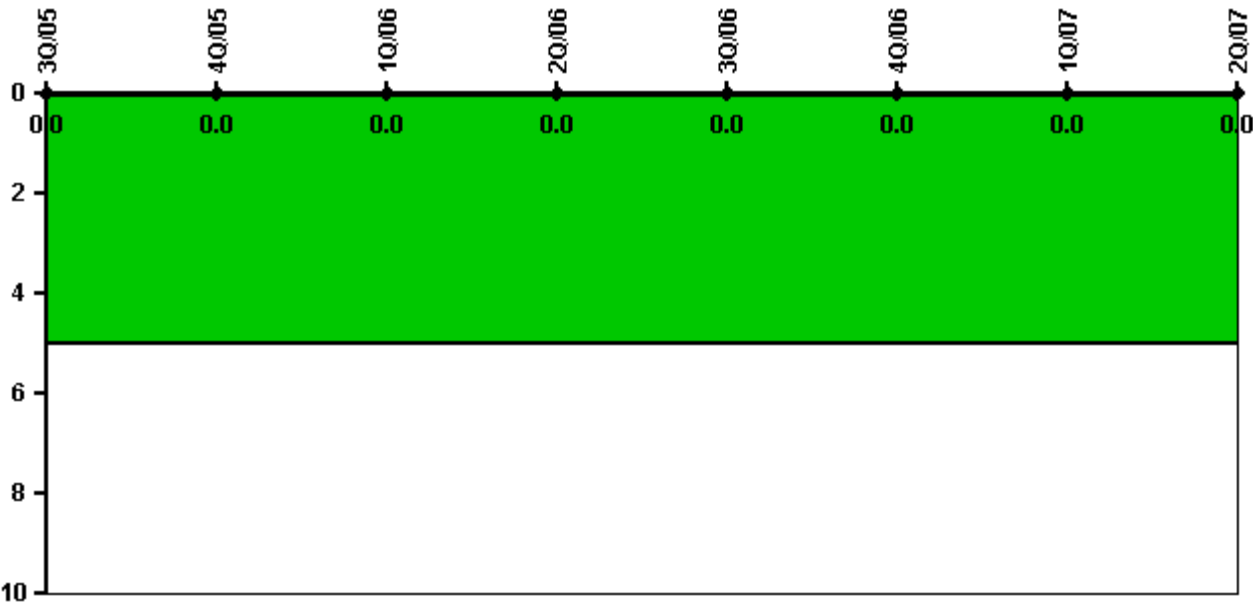
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned power changes	0	1.0	0	0	1.0	1.0	0	1.0
Critical hours	2208.0	2209.0	2148.6	1460.3	2187.3	2186.0	2144.9	2184.0
Indicator value	2.6	2.4	0.8	0.9	1.7	1.8	1.8	2.4

Licensee Comments: none

Safety System Functional Failures (PWR)



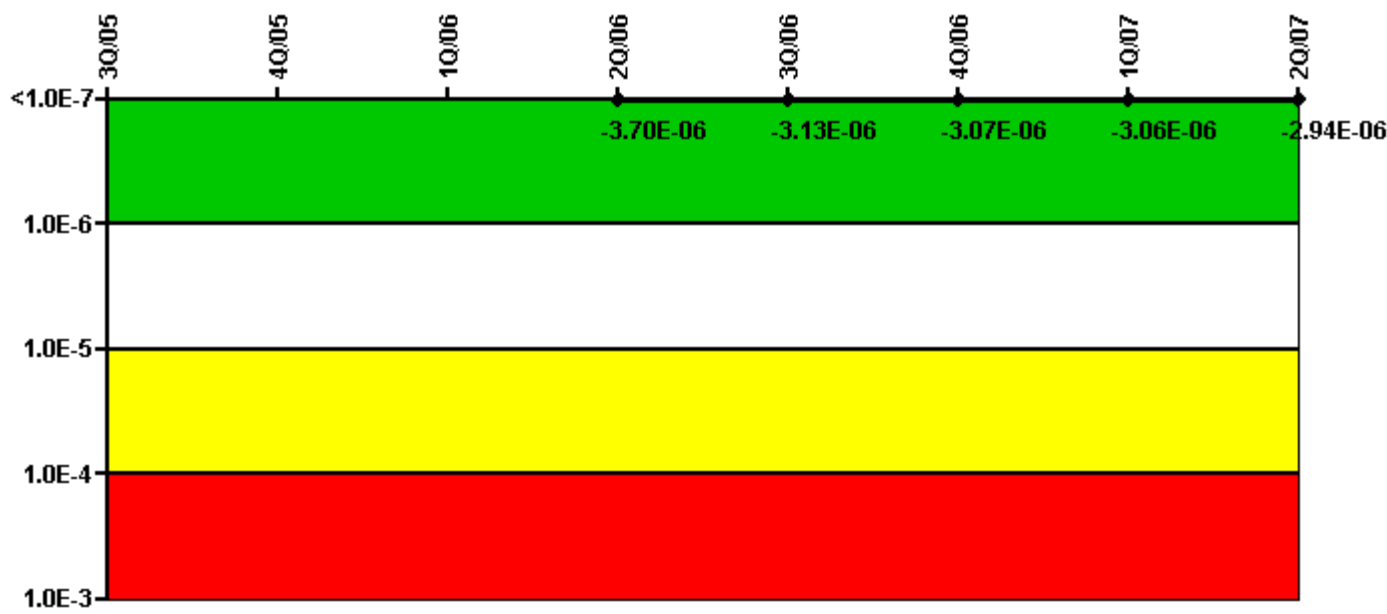
Thresholds: White > 5.0

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	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



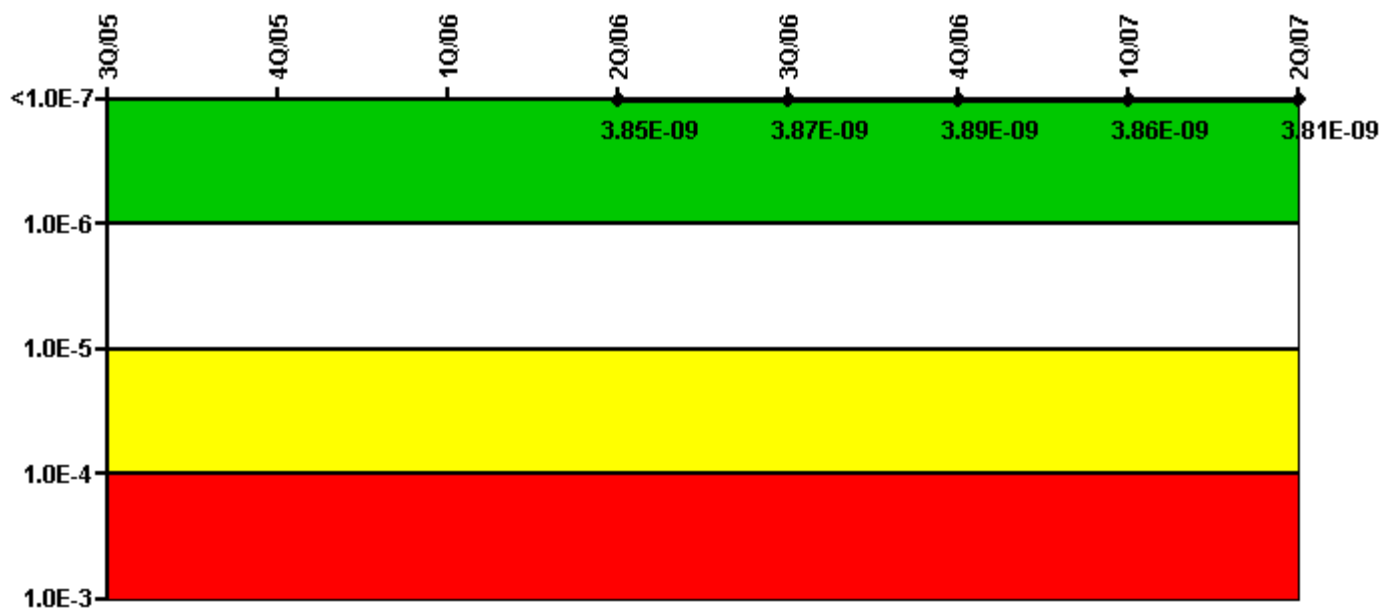
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ΔCDF)				9.80E-08	5.70E-07	6.30E-07	6.40E-07	7.60E-07
URI (ΔCDF)				-3.80E-06	-3.70E-06	-3.70E-06	-3.70E-06	-3.70E-06
PLE				NO	NO	NO	NO	NO
Indicator value				-3.70E-06	-3.13E-06	-3.07E-06	-3.06E-06	-2.94E-06

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



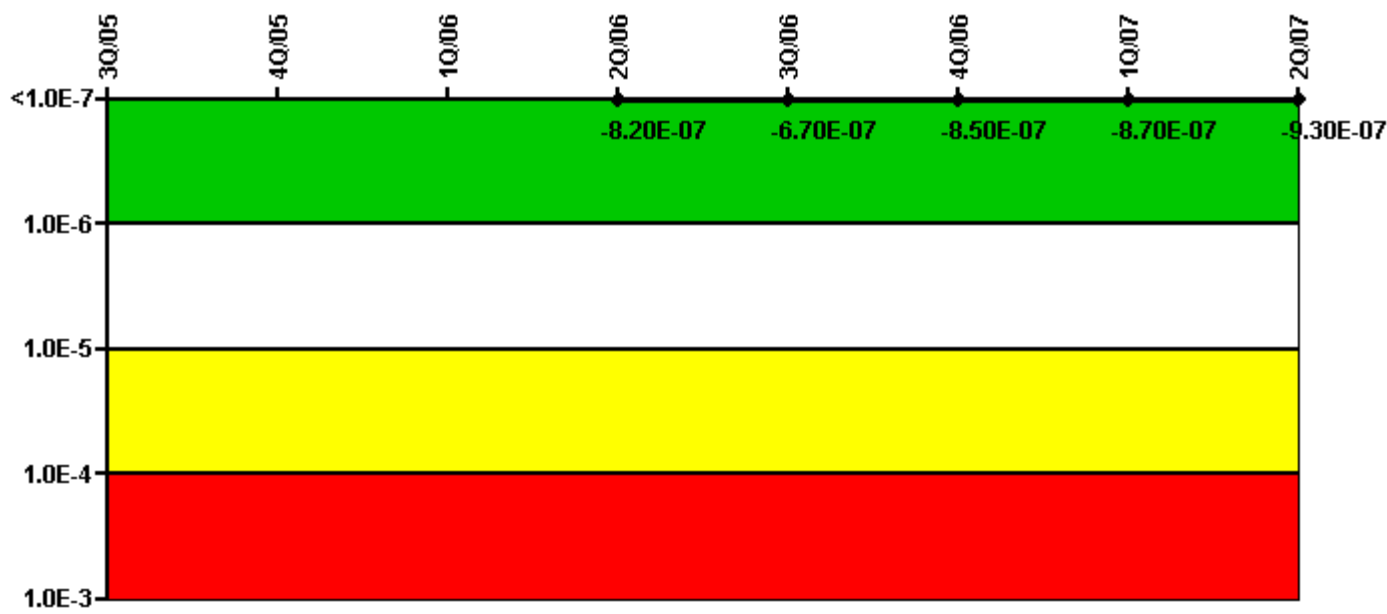
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)				2.50E-10	2.70E-10	2.90E-10	2.60E-10	2.10E-10
URI (ΔCDF)				3.60E-09	3.60E-09	3.60E-09	3.60E-09	3.60E-09
PLE				NO	NO	NO	NO	NO
Indicator value				3.85E-09	3.87E-09	3.89E-09	3.86E-09	3.81E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



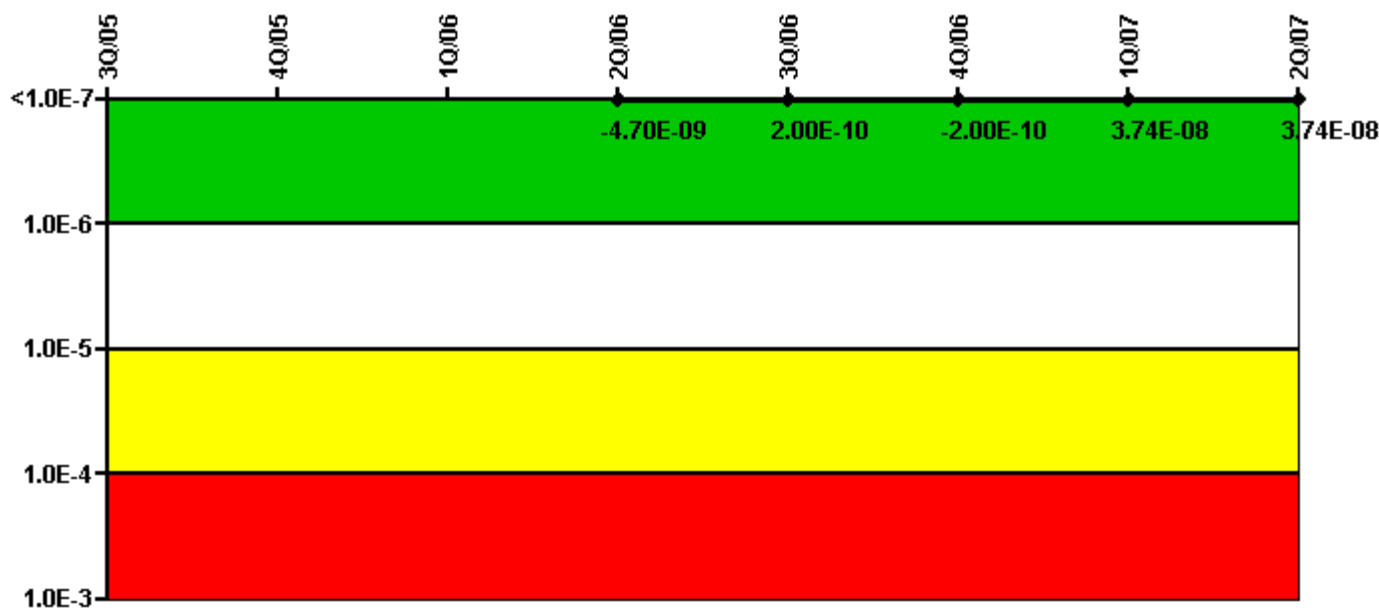
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ΔCDF)				2.80E-07	4.30E-07	3.50E-07	3.30E-07	2.70E-07
URI (ΔCDF)				-1.10E-06	-1.10E-06	-1.20E-06	-1.20E-06	-1.20E-06
PLE				NO	NO	NO	NO	NO
Indicator value				-8.20E-07	-6.70E-07	-8.50E-07	-8.70E-07	-9.30E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



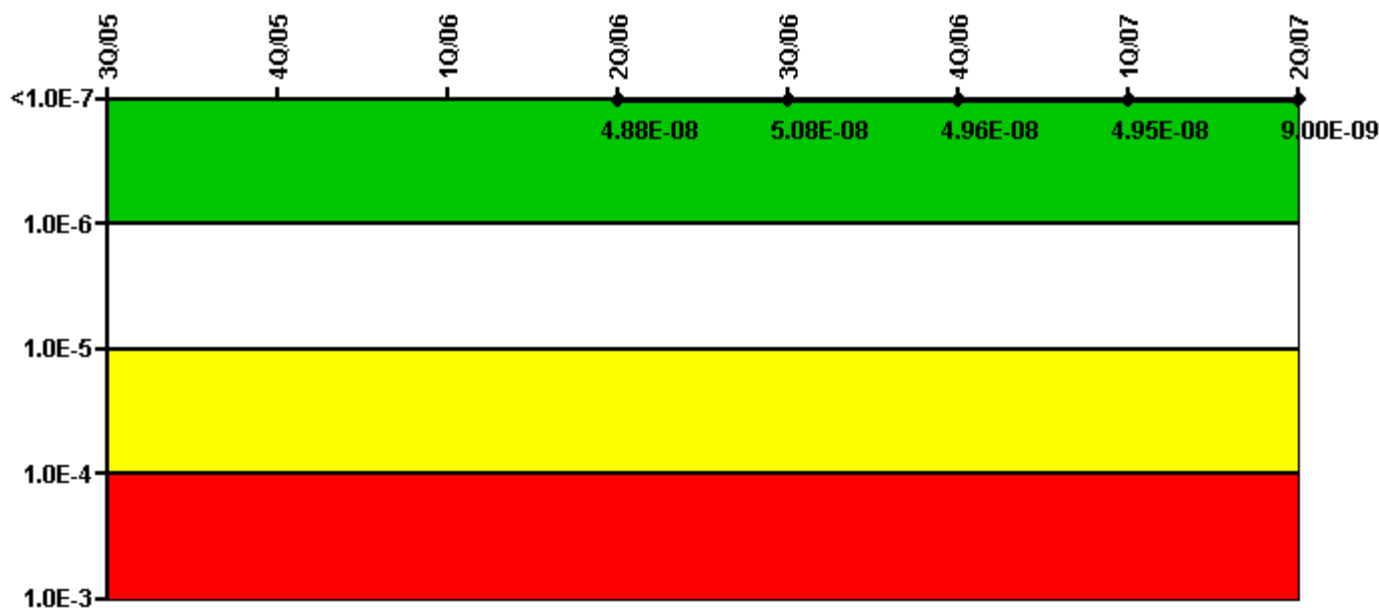
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)				-1.10E-08	-5.60E-09	-5.60E-09	-5.60E-09	-5.60E-09
URI (ΔCDF)				6.30E-09	5.80E-09	5.40E-09	4.30E-08	4.30E-08
PLE				NO	NO	NO	NO	NO
Indicator value				-4.70E-09	2.00E-10	-2.00E-10	3.74E-08	3.74E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



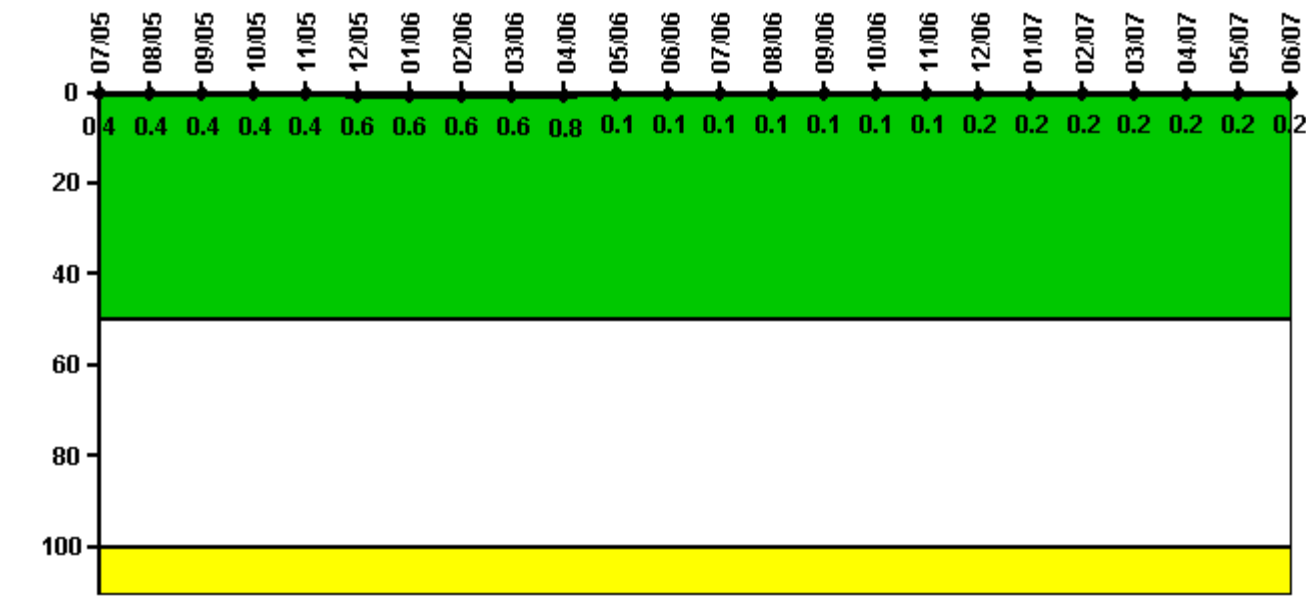
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ΔCDF)				1.80E-09	2.80E-09	2.60E-09	2.50E-09	-1.00E-08
URI (ΔCDF)				4.70E-08	4.80E-08	4.70E-08	4.70E-08	1.90E-08
PLE				NO	NO	NO	NO	NO
Indicator value				4.88E-08	5.08E-08	4.96E-08	4.95E-08	9.00E-09

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

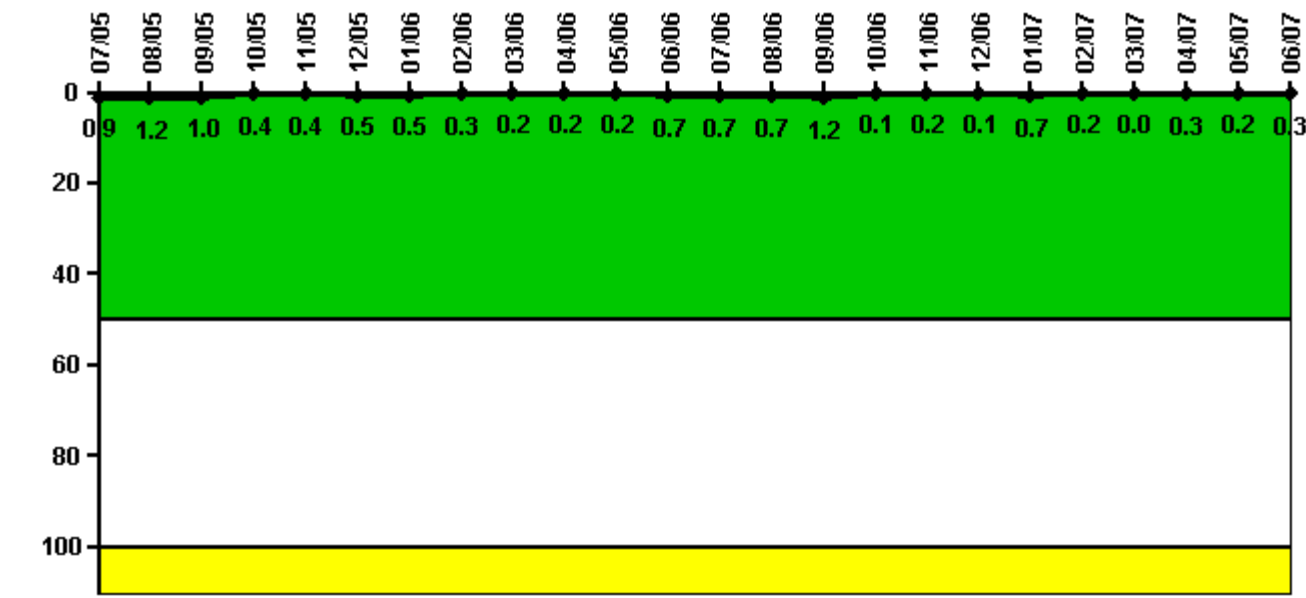
Notes

Reactor Coolant System Activity	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06
Maximum activity	0.003840	0.004020	0.003970	0.004350	0.004420	0.005530	0.005620	0.005750	0.005910	0.008170	0.001100	0.001260
Technical specification limit	1.0	1.0	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	0.6	0.6	0.6	0.6	0.8	0.1	0.1

Reactor Coolant System Activity	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum activity	0.001360	0.001380	0.001310	0.001410	0.001480	0.001600	0.001540	0.001580	0.001650	0.001810	0.001740	0.001660
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

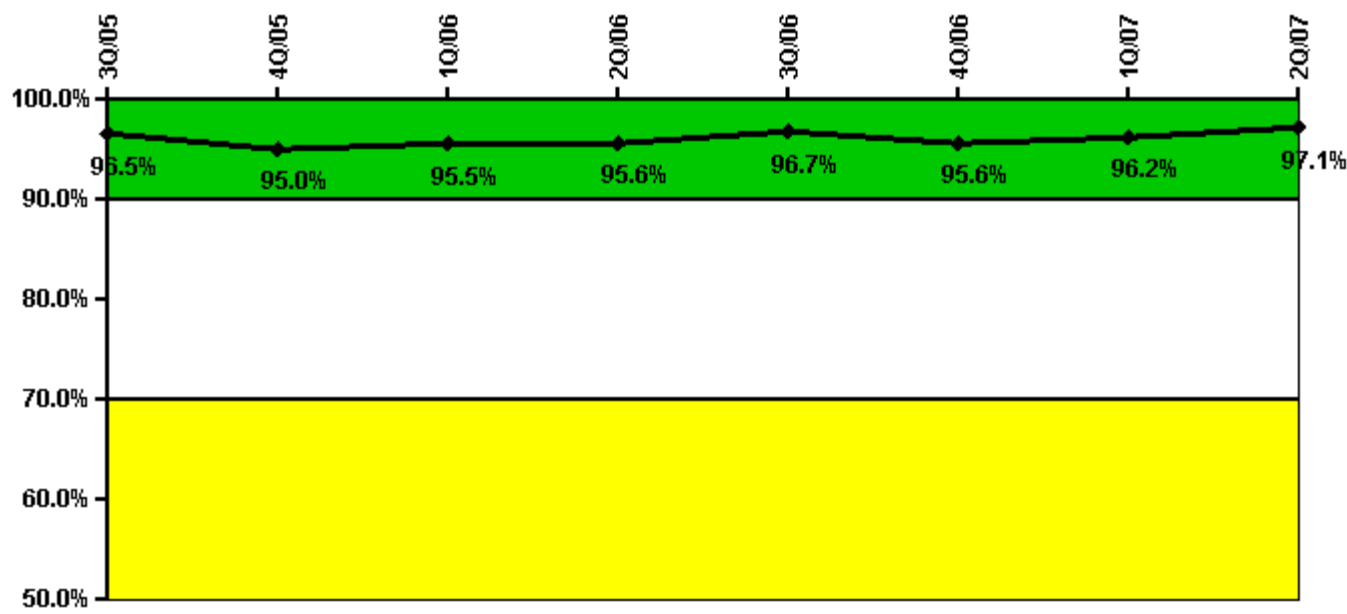
Notes

Reactor Coolant System Leakage	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06
Maximum leakage	0.094	0.124	0.097	0.036	0.035	0.054	0.054	0.030	0.024	0.023	0.022	0.065
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.9	1.2	1.0	0.4	0.4	0.5	0.5	0.3	0.2	0.2	0.2	0.7

Reactor Coolant System Leakage	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum leakage	0.069	0.069	0.120	0.011	0.020	0.010	0.070	0.020	0	0.030	0.020	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	0.7	0.7	1.2	0.1	0.2	0.1	0.7	0.2	0	0.3	0.2	0.3

Licensee Comments: none

Drill/Exercise Performance



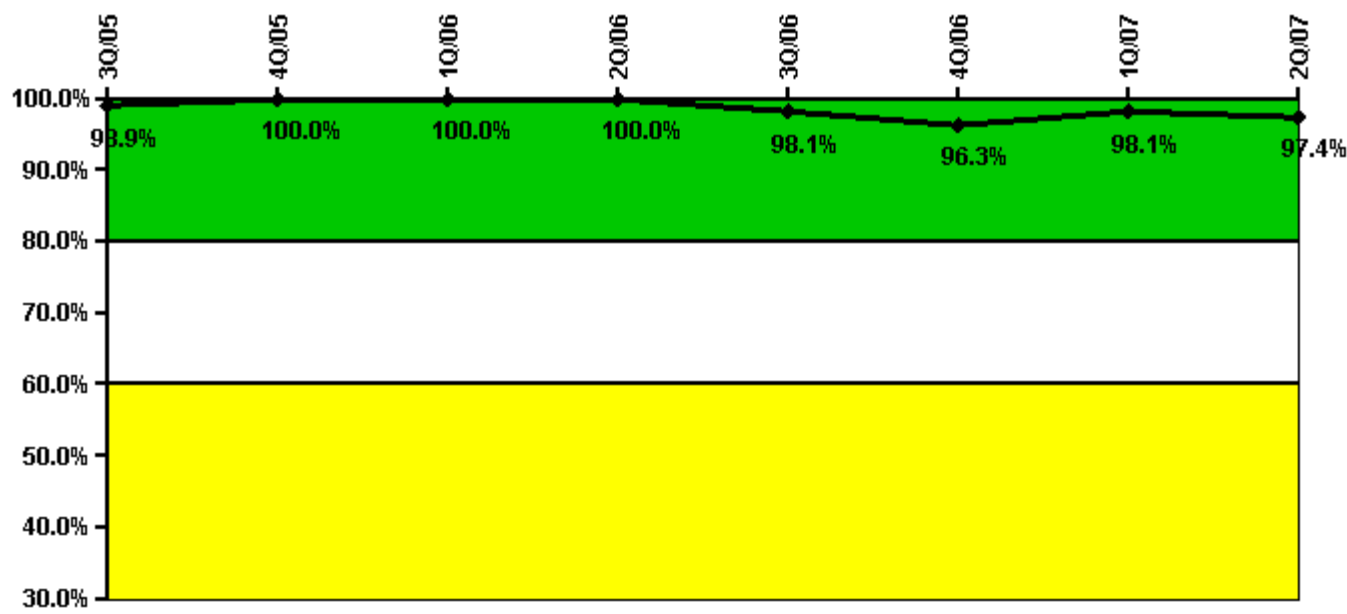
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful opportunities	27.0	11.0	37.0	30.0	73.0	11.0	19.0	57.0
Total opportunities	27.0	13.0	38.0	30.0	73.0	14.0	20.0	58.0
Indicator value	96.5%	95.0%	95.5%	95.6%	96.7%	95.6%	96.2%	97.1%

Licensee Comments: none

ERO Drill Participation



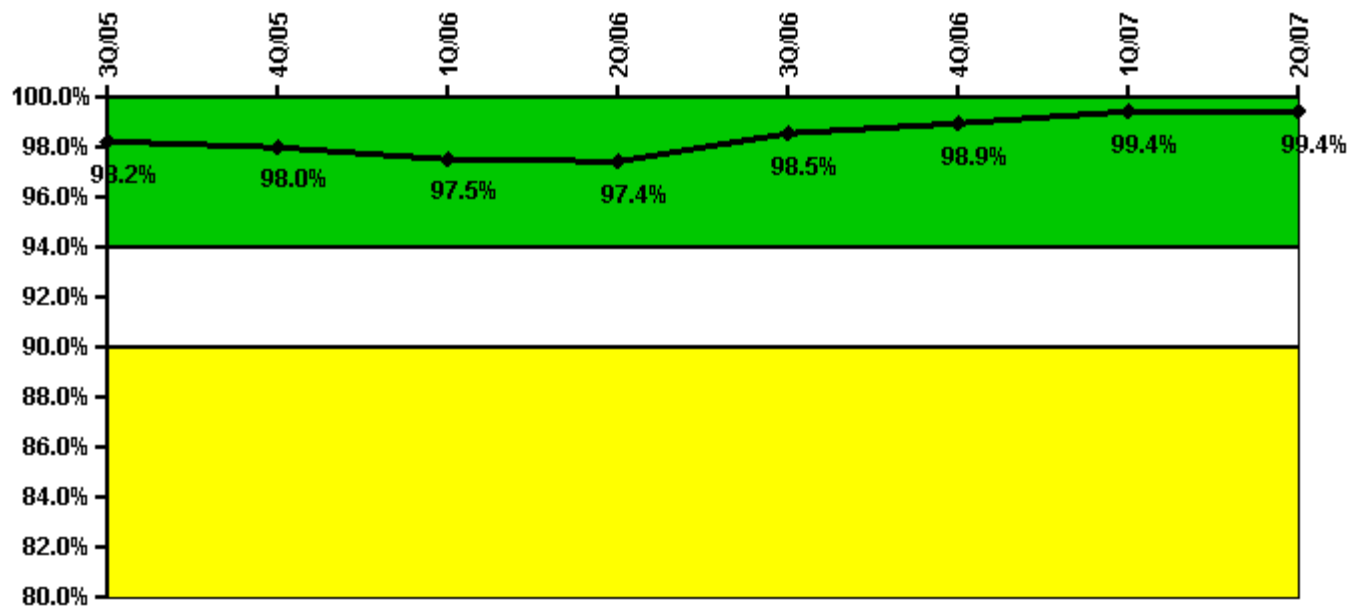
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Participating Key personnel	93.0	94.0	103.0	103.0	104.0	104.0	106.0	114.0
Total Key personnel	94.0	94.0	103.0	103.0	106.0	108.0	108.0	117.0
Indicator value	98.9%	100.0%	100.0%	100.0%	98.1%	96.3%	98.1%	97.4%

Licensee Comments: none

Alert & Notification System



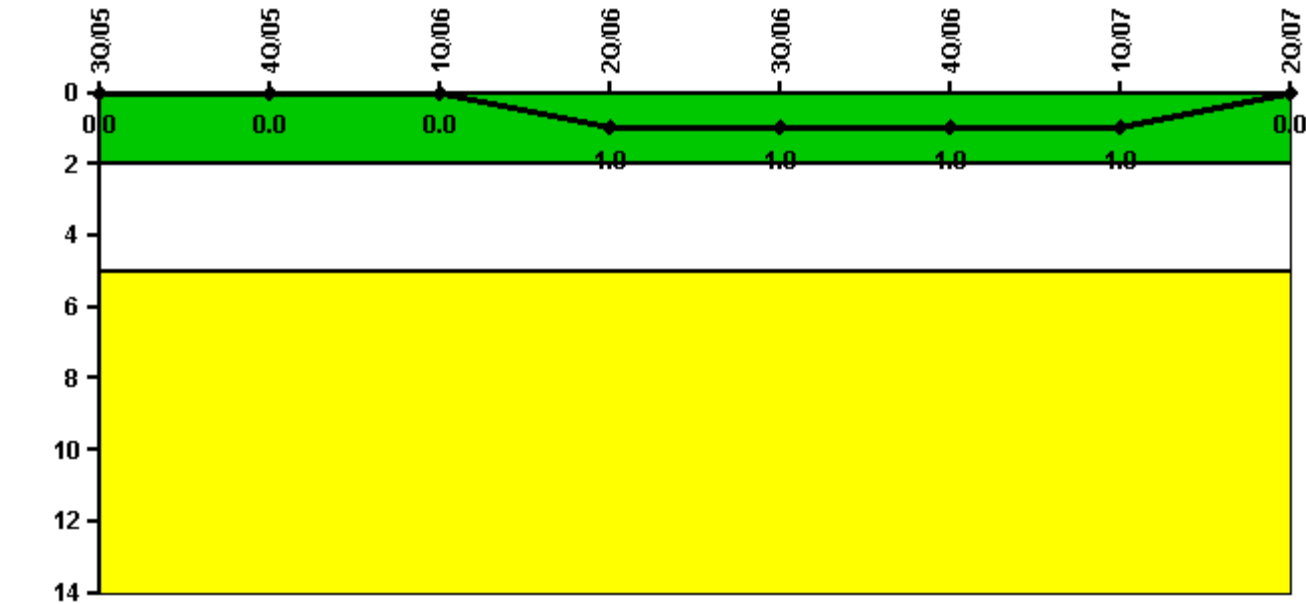
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful siren-tests	1164	992	984	1083	882	885	728	965
Total sirens-tests	1225	1009	1010	1092	888	888	732	974
Indicator value	98.2%	98.0%	97.5%	97.4%	98.5%	98.9%	99.4%	99.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness



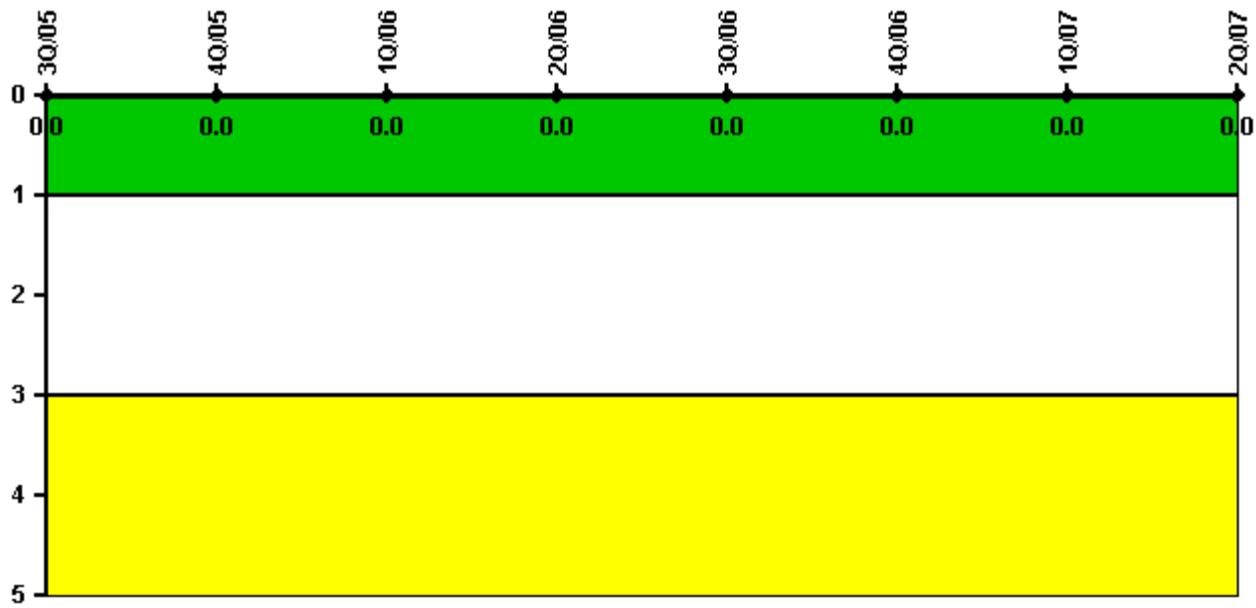
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	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	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](#)

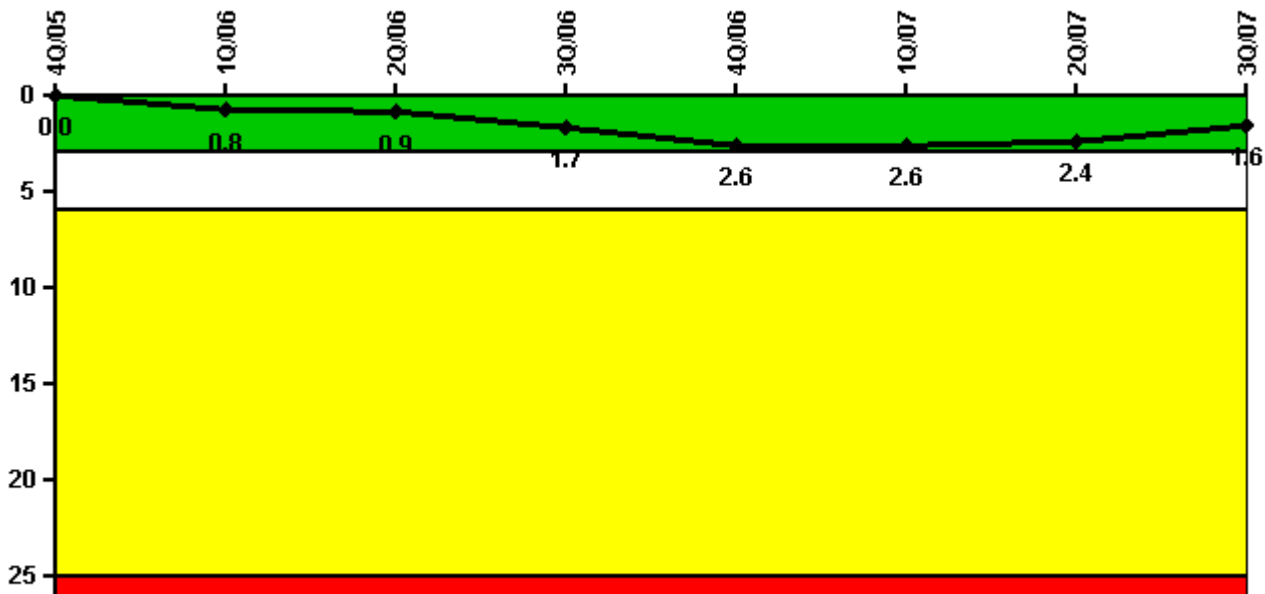
Last Modified: August 6, 2007

Indian Point 2

3Q/2007 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



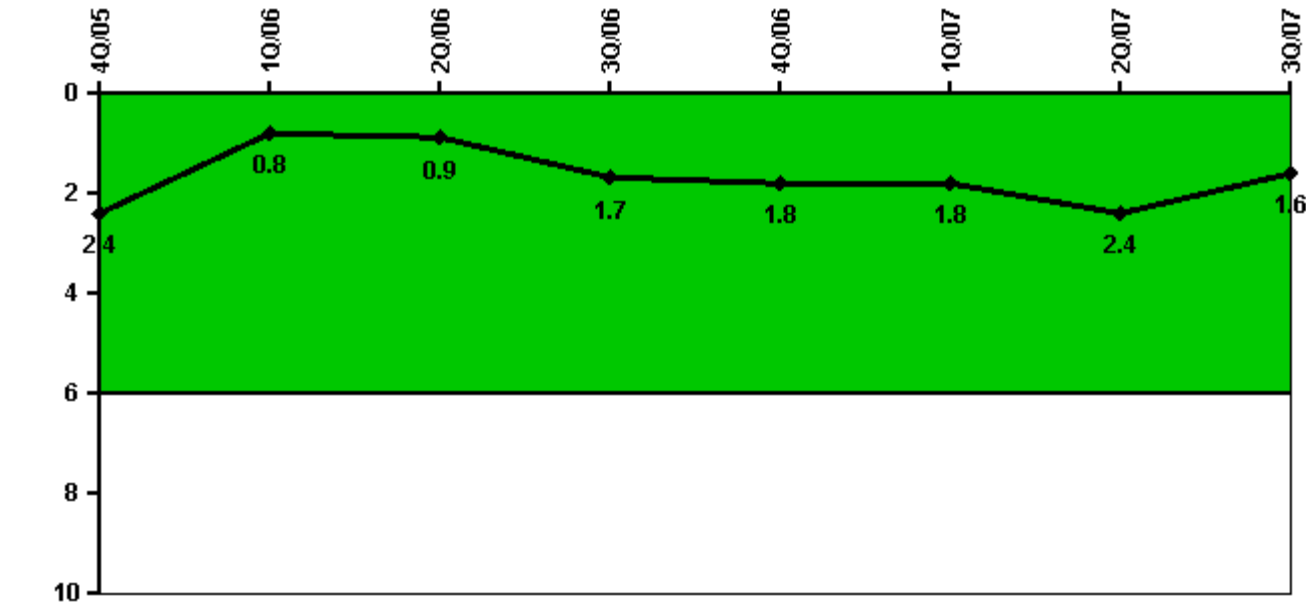
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned scrams	0	1.0	0	1.0	1.0	1.0	0	0
Critical hours	2209.0	2148.6	1460.3	2187.3	2186.0	2144.9	2184.0	2208.0
Indicator value	0	0.8	0.9	1.7	2.6	2.6	2.4	1.6

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



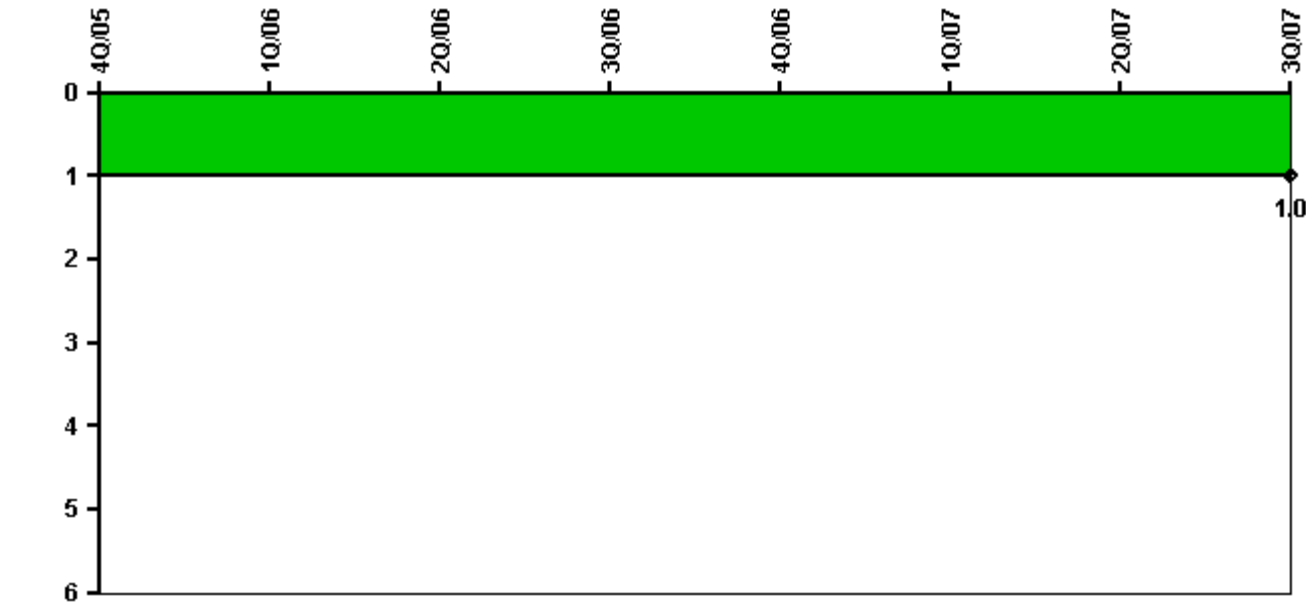
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned power changes	1.0	0	0	1.0	1.0	0	1.0	0
Critical hours	2209.0	2148.6	1460.3	2187.3	2186.0	2144.9	2184.0	2208.0
Indicator value	2.4	0.8	0.9	1.7	1.8	1.8	2.4	1.6

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

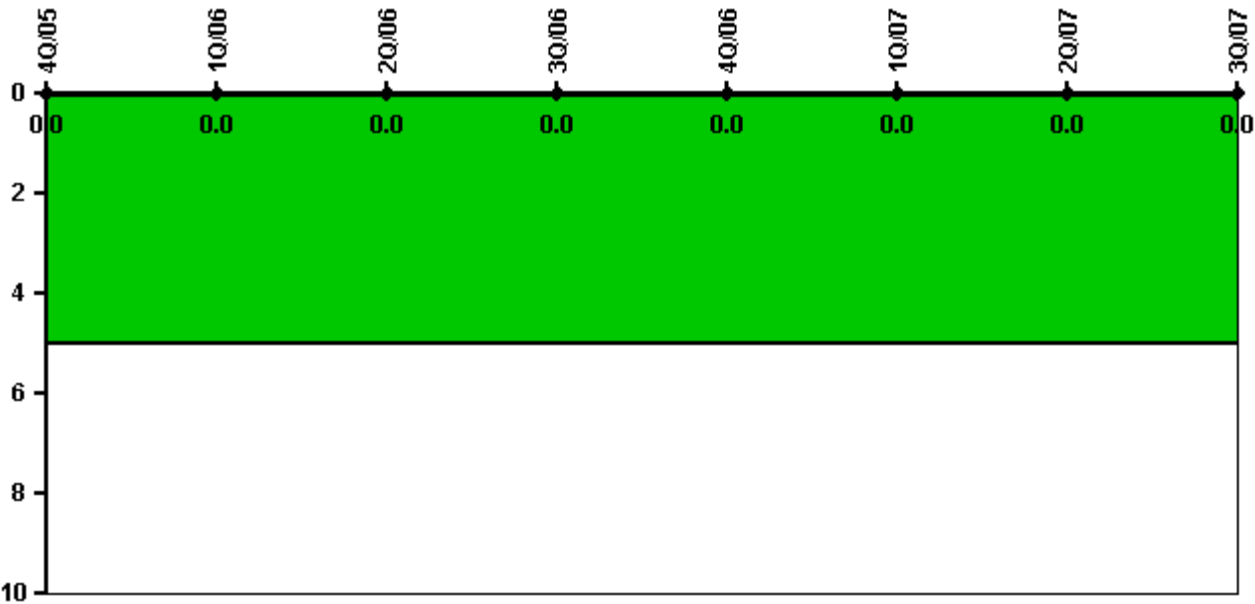
Notes

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

Licensee Comments:

1Q/07: Manual reactor trip on February 28, 2007, due to loss of steam generator (SG) feedwater (FW) flow caused by failure of a main FW pump common suction pressure transmitter power supply whose output signal controls the speed of both main FW pumps. As both main FW pumps speed was reduced to minimum, FW flow and SG level decreased. Operators could not override the FW pump cutback signal due to the failed low transmitter and regain FW flow. Event was reported in IP-2 LER-2007-004.

Safety System Functional Failures (PWR)



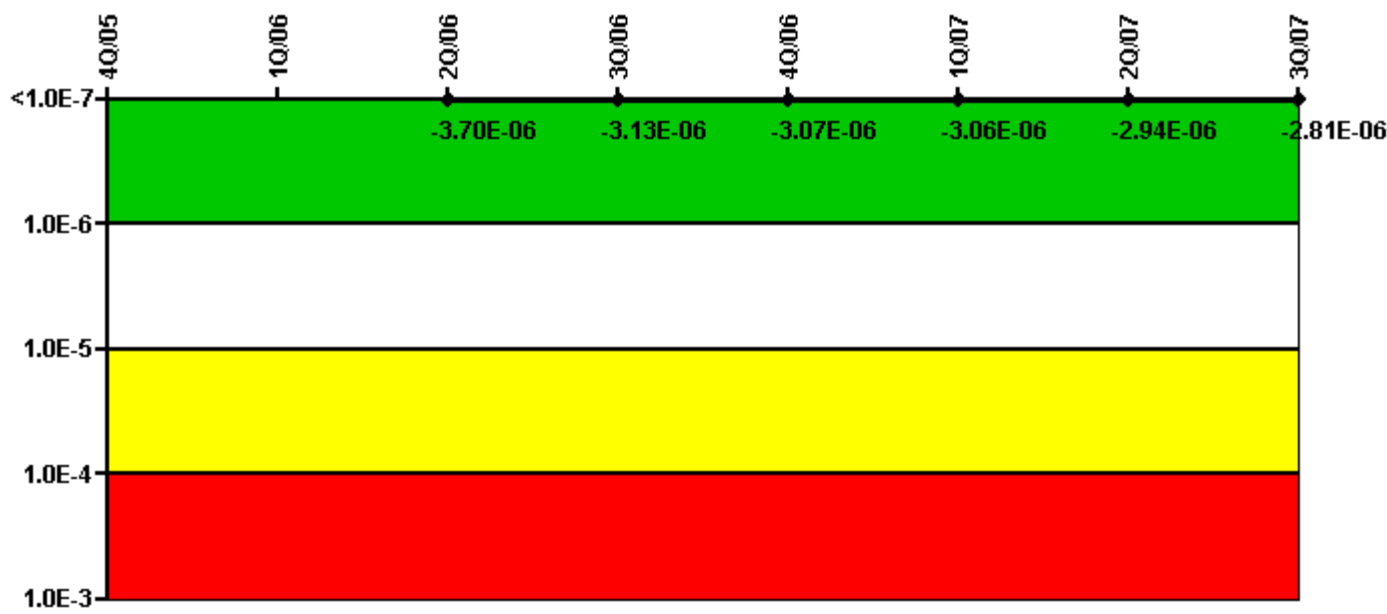
Thresholds: White > 5.0

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	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



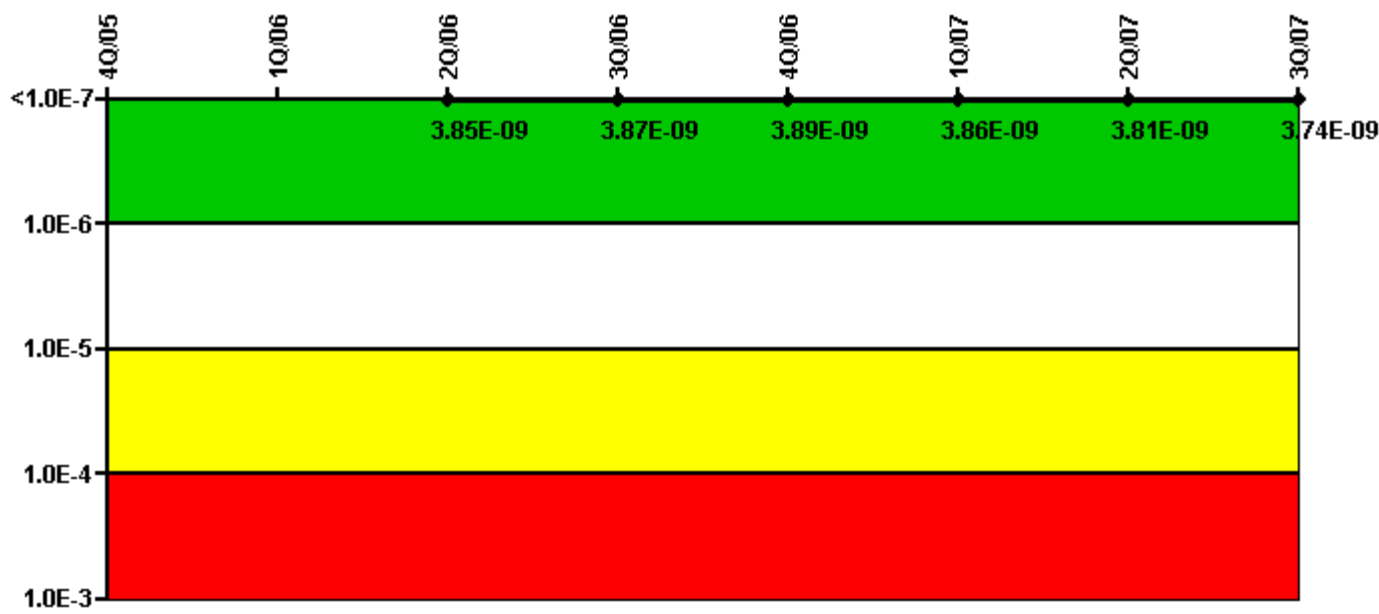
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			9.80E-08	5.70E-07	6.30E-07	6.40E-07	7.60E-07	7.90E-07
URI (ΔCDF)			-3.80E-06	-3.70E-06	-3.70E-06	-3.70E-06	-3.70E-06	-3.60E-06
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-3.70E-06	-3.13E-06	-3.07E-06	-3.06E-06	-2.94E-06	-2.81E-06

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



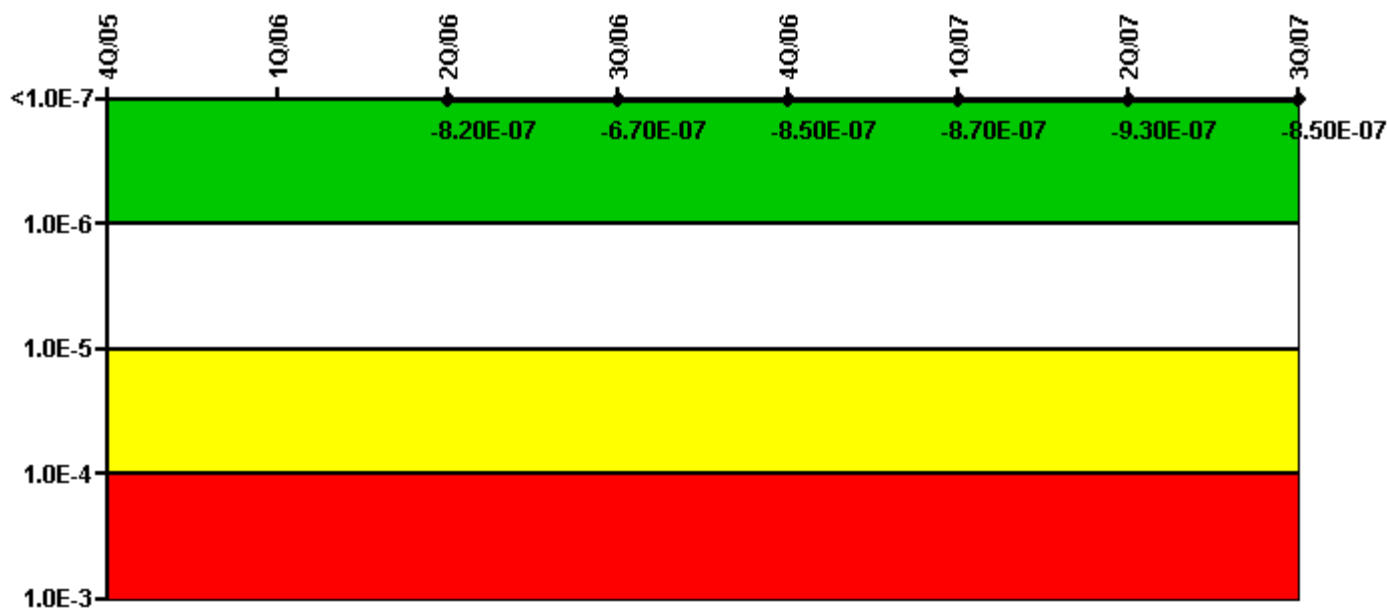
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			2.50E-10	2.70E-10	2.90E-10	2.60E-10	2.10E-10	1.40E-10
URI (ΔCDF)			3.60E-09	3.60E-09	3.60E-09	3.60E-09	3.60E-09	3.60E-09
PLE			NO	NO	NO	NO	NO	NO
Indicator value			3.85E-09	3.87E-09	3.89E-09	3.86E-09	3.81E-09	3.74E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



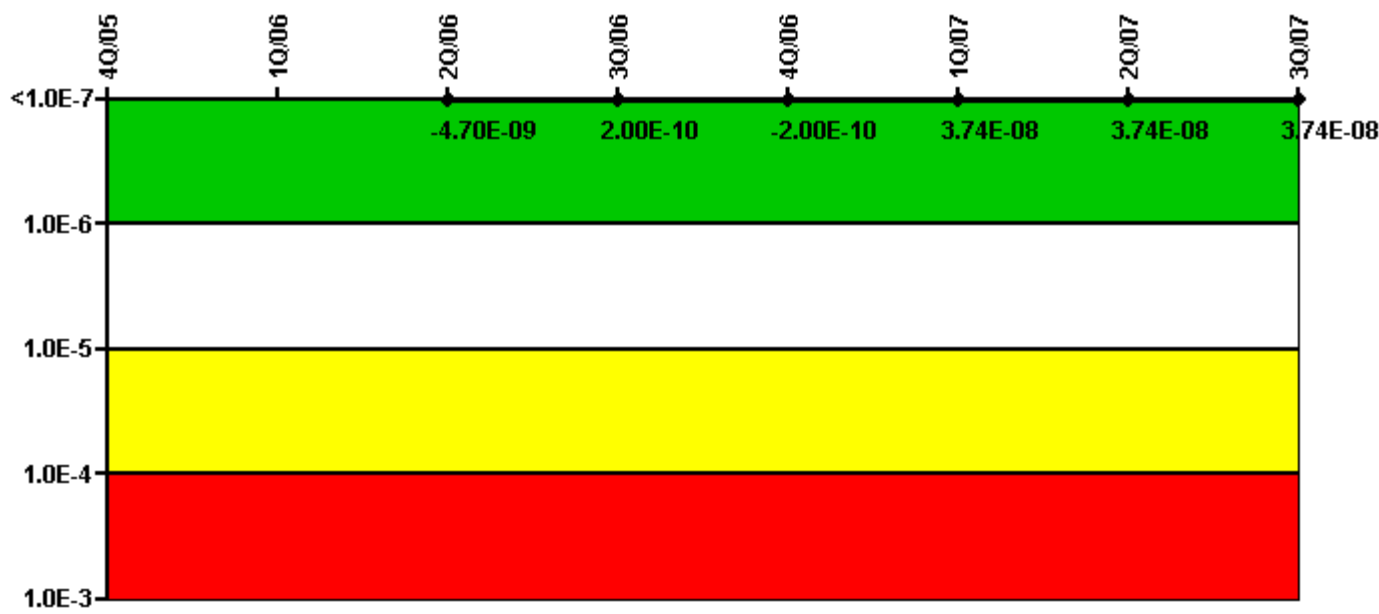
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			2.80E-07	4.30E-07	3.50E-07	3.30E-07	2.70E-07	2.50E-07
URI (ΔCDF)			-1.10E-06	-1.10E-06	-1.20E-06	-1.20E-06	-1.20E-06	-1.10E-06
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-8.20E-07	-6.70E-07	-8.50E-07	-8.70E-07	-9.30E-07	-8.50E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



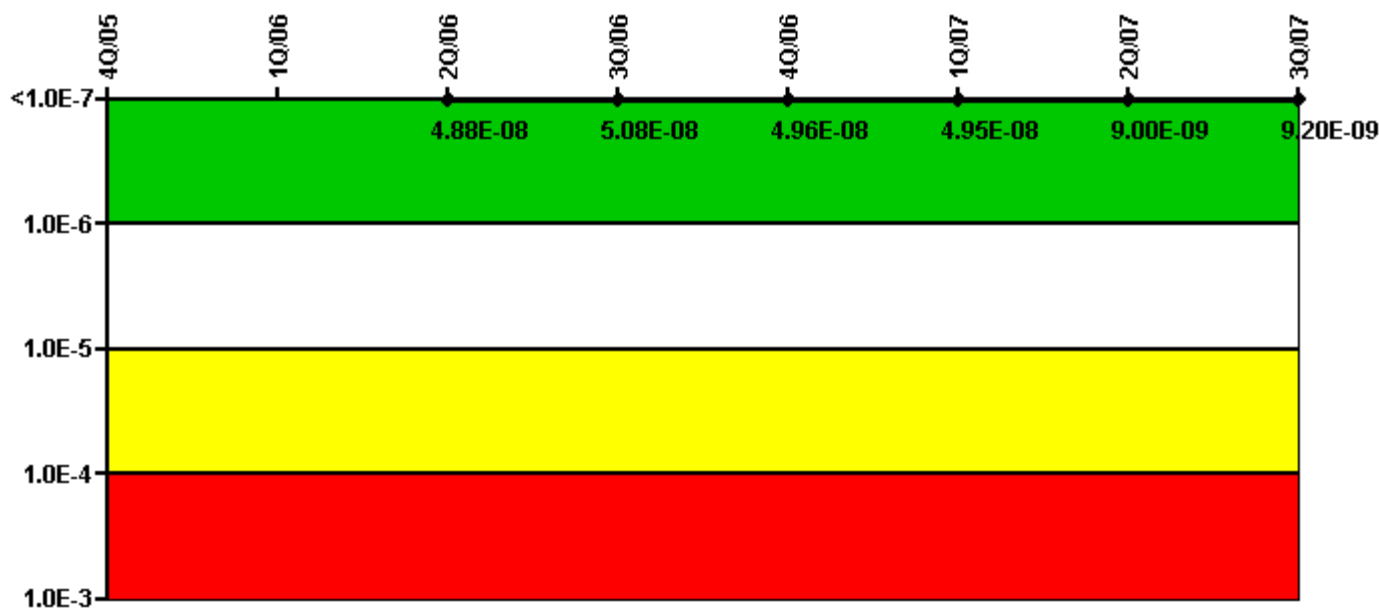
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			-1.10E-08	-5.60E-09	-5.60E-09	-5.60E-09	-5.60E-09	-5.60E-09
URI (ΔCDF)			6.30E-09	5.80E-09	5.40E-09	4.30E-08	4.30E-08	4.30E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			-4.70E-09	2.00E-10	-2.00E-10	3.74E-08	3.74E-08	3.74E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



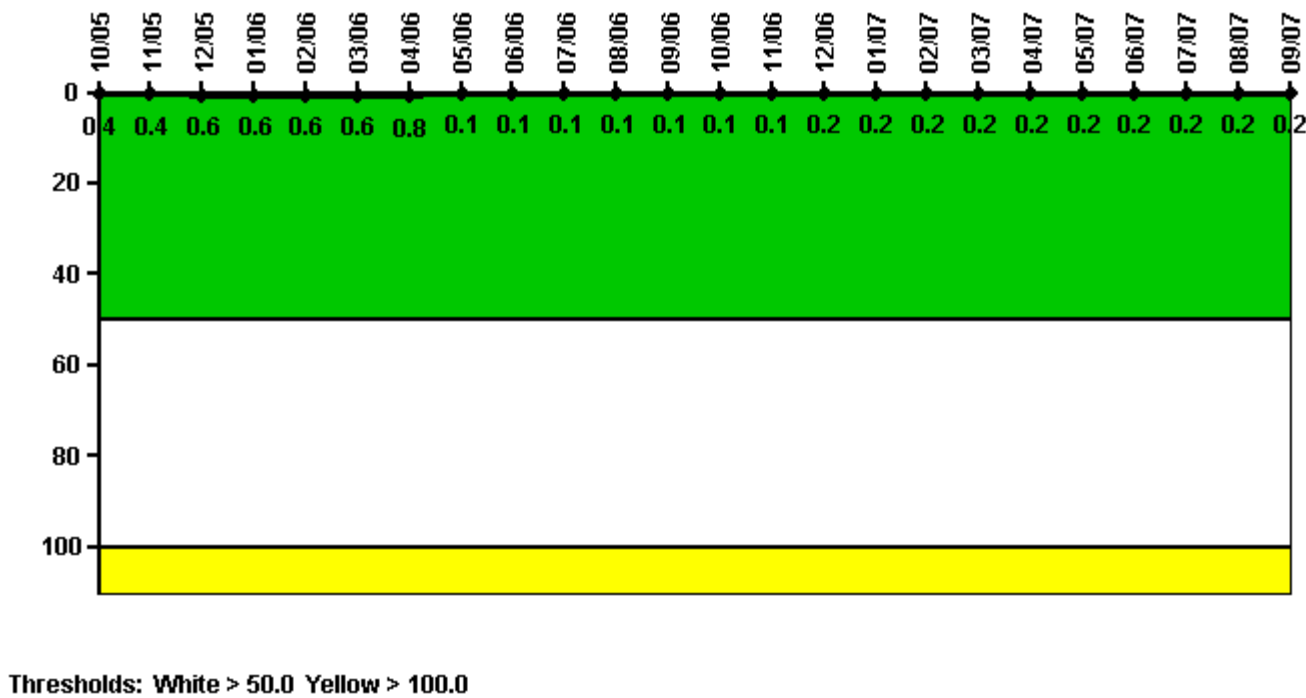
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
UAI (ΔCDF)			1.80E-09	2.80E-09	2.60E-09	2.50E-09	-1.00E-08	-9.80E-09
URI (ΔCDF)			4.70E-08	4.80E-08	4.70E-08	4.70E-08	1.90E-08	1.90E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			4.88E-08	5.08E-08	4.96E-08	4.95E-08	9.00E-09	9.20E-09

Licensee Comments: none

Reactor Coolant System Activity



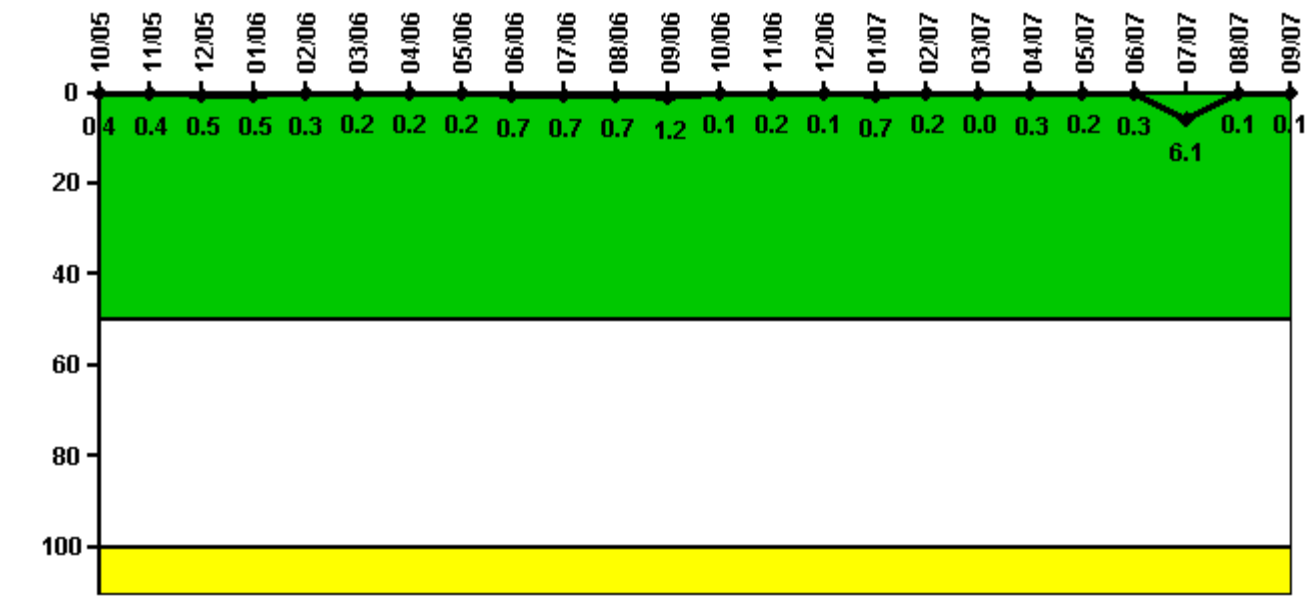
Notes

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	0.004350	0.004420	0.005530	0.005620	0.005750	0.005910	0.008170	0.001100	0.001260	0.001360	0.001380	0.001310
Technical specification limit	1.0	1.0	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	0.8	0.1	0.1	0.1	0.1	0.1

Reactor Coolant System Activity	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum activity	0.001410	0.001480	0.001600	0.001540	0.001580	0.001650	0.001810	0.001740	0.001660	0.001840	0.001850	0.001930
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

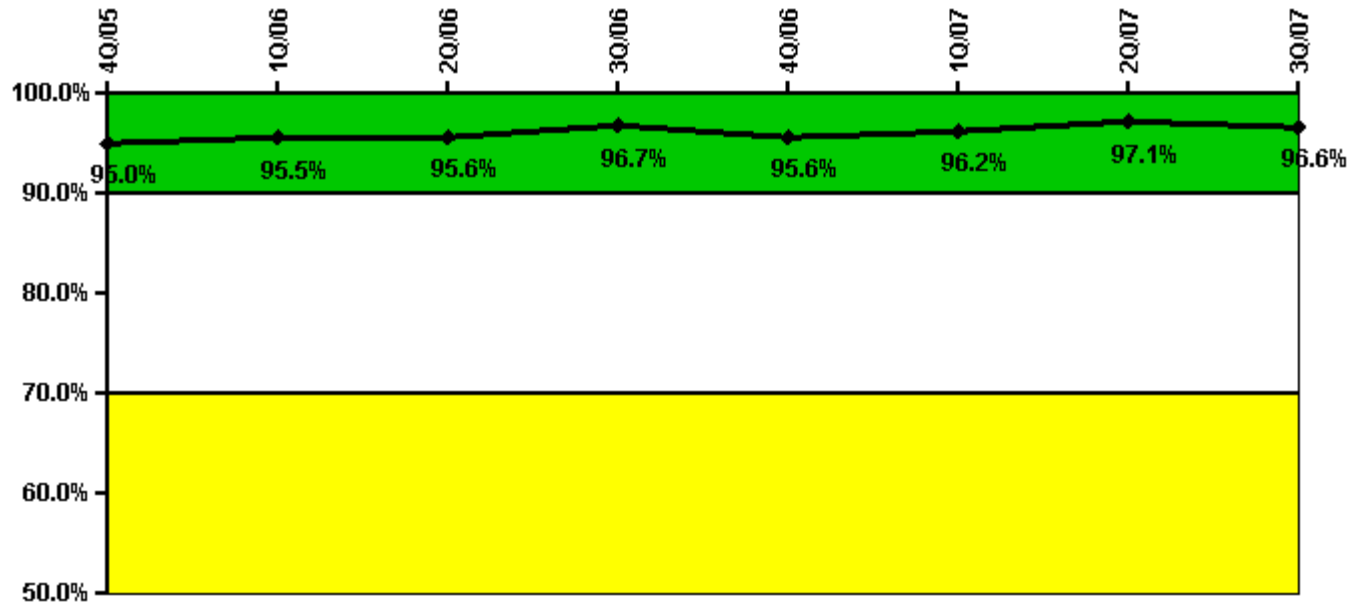
Notes

Reactor Coolant System Leakage	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	0.036	0.035	0.054	0.054	0.030	0.024	0.023	0.022	0.065	0.069	0.069	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	0.4	0.4	0.5	0.5	0.3	0.2	0.2	0.2	0.7	0.7	0.7	1.2

Reactor Coolant System Leakage	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum leakage	0.011	0.020	0.010	0.070	0.020	0	0.030	0.020	0.030	0.610	0.010	0.010
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	0.2	0.1	0.7	0.2	0	0.3	0.2	0.3	6.1	0.1	0.1

Licensee Comments: none

Drill/Exercise Performance



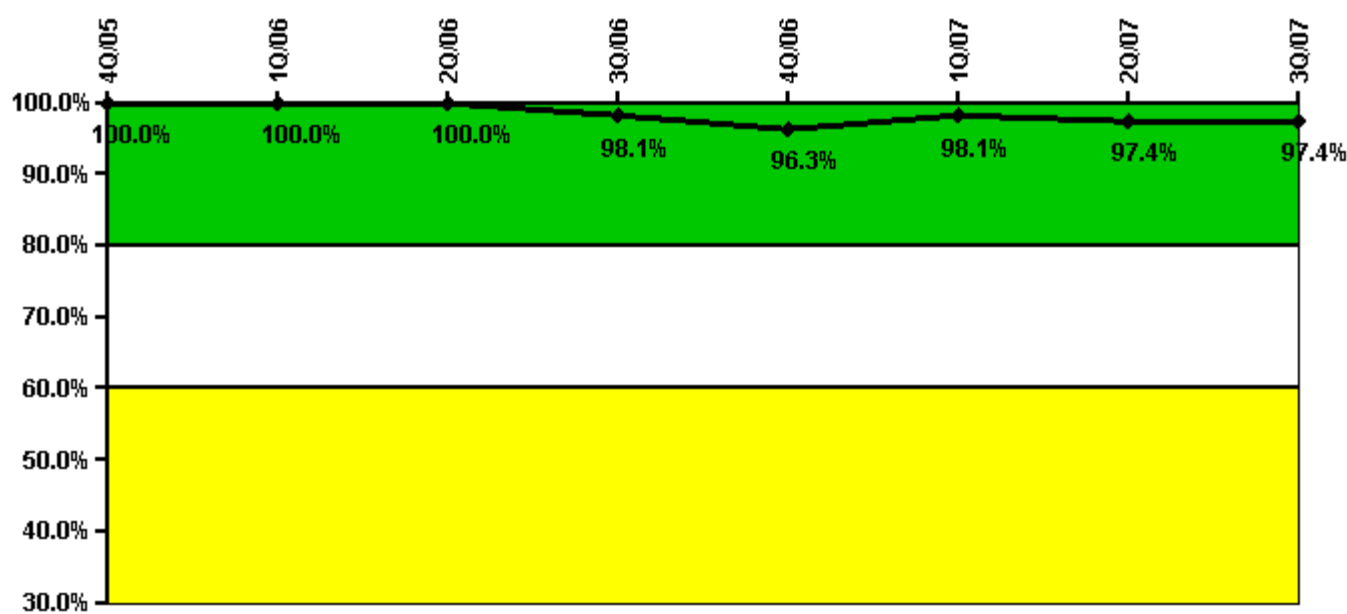
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful opportunities	11.0	37.0	30.0	73.0	11.0	19.0	57.0	72.0
Total opportunities	13.0	38.0	30.0	73.0	14.0	20.0	58.0	75.0
Indicator value	95.0%	95.5%	95.6%	96.7%	95.6%	96.2%	97.1%	96.6%

Licensee Comments: none

ERO Drill Participation



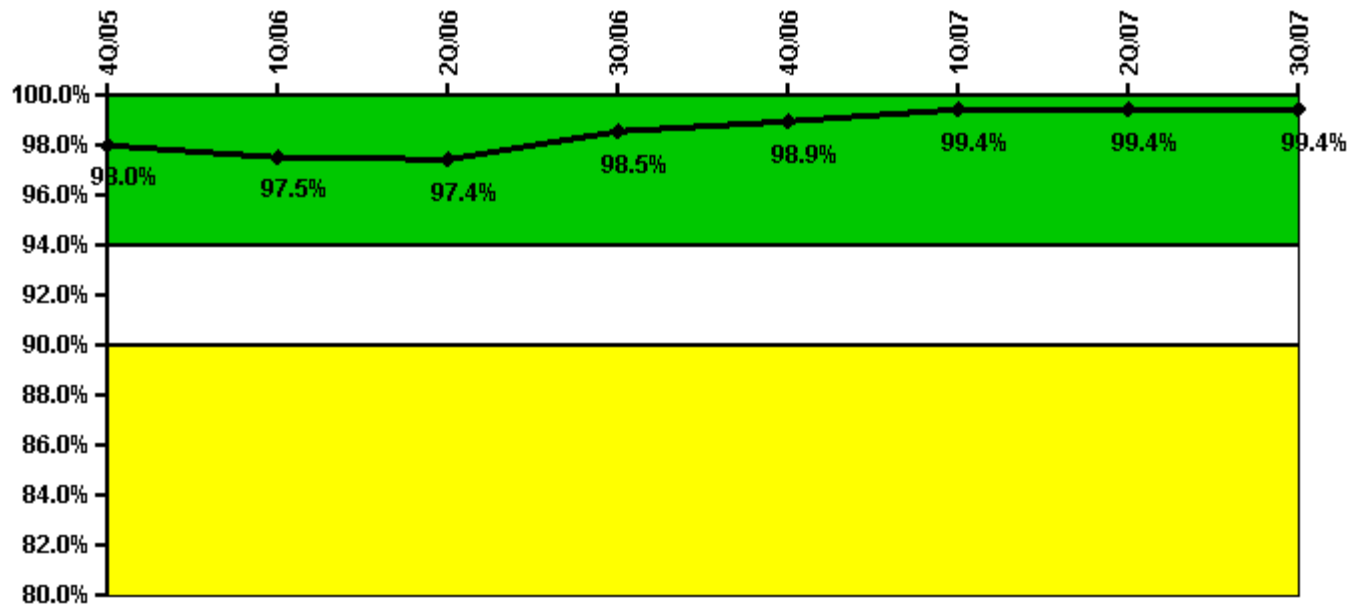
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Participating Key personnel	94.0	103.0	103.0	104.0	104.0	106.0	114.0	113.0
Total Key personnel	94.0	103.0	103.0	106.0	108.0	108.0	117.0	116.0
Indicator value	100.0%	100.0%	100.0%	98.1%	96.3%	98.1%	97.4%	97.4%

Licensee Comments: none

Alert & Notification System



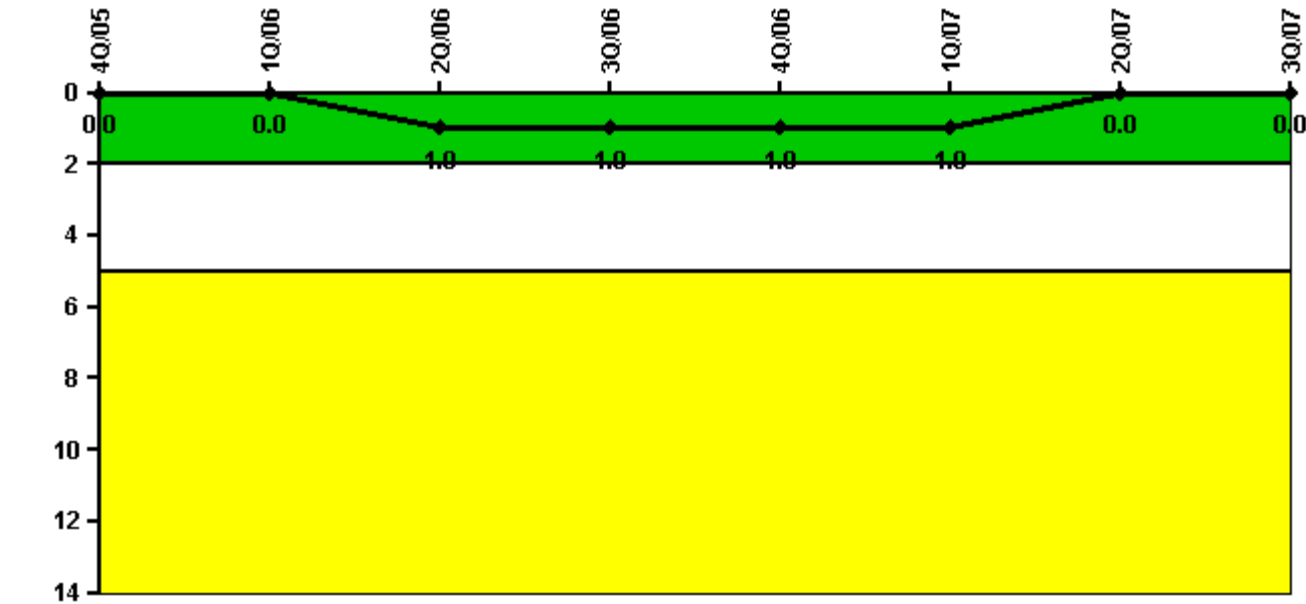
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful siren-tests	992	984	1083	882	885	728	965	536
Total sirens-tests	1009	1010	1092	888	888	732	974	540
Indicator value	98.0%	97.5%	97.4%	98.5%	98.9%	99.4%	99.4%	99.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness



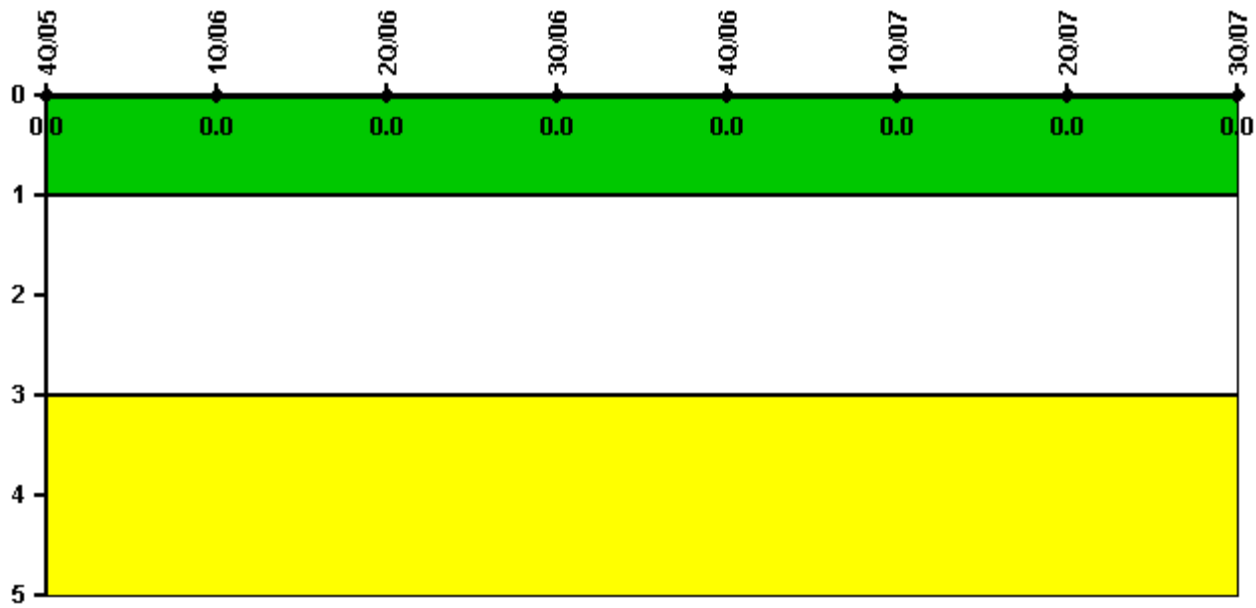
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	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	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](#)

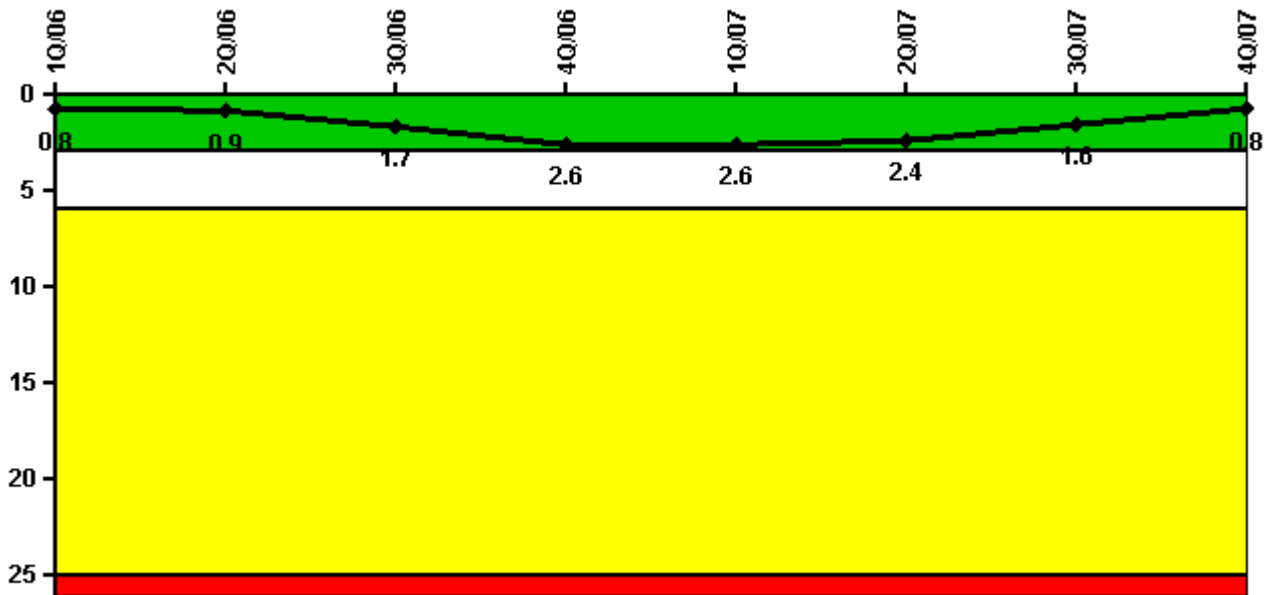
Last Modified: December 7, 2007

Indian Point 2

4Q/2007 Performance Indicators

Licensee's General Comments: Changes to the Unit 2 normalization numbers for IDS and CCTV were provided to INPO for the 3Q07 and a comment provided in the 3Q07 PI report. Changes due to a new dry cask storage area within the PA. INPO revised the Unit 2 IDS and CCTV normalization numbers which resulted in a change report.

Unplanned Scrams per 7000 Critical Hrs



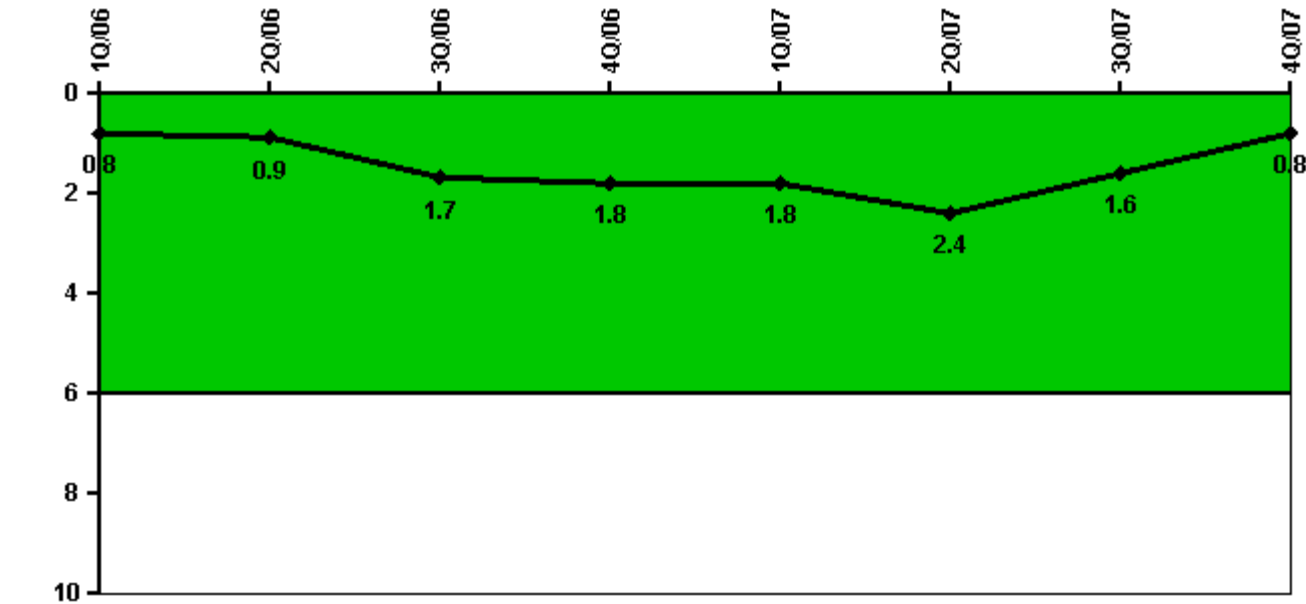
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	1.0	1.0	1.0	0	0	0
Critical hours	2148.6	1460.3	2187.3	2186.0	2144.9	2184.0	2208.0	2209.0
Indicator value	0.8	0.9	1.7	2.6	2.6	2.4	1.6	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



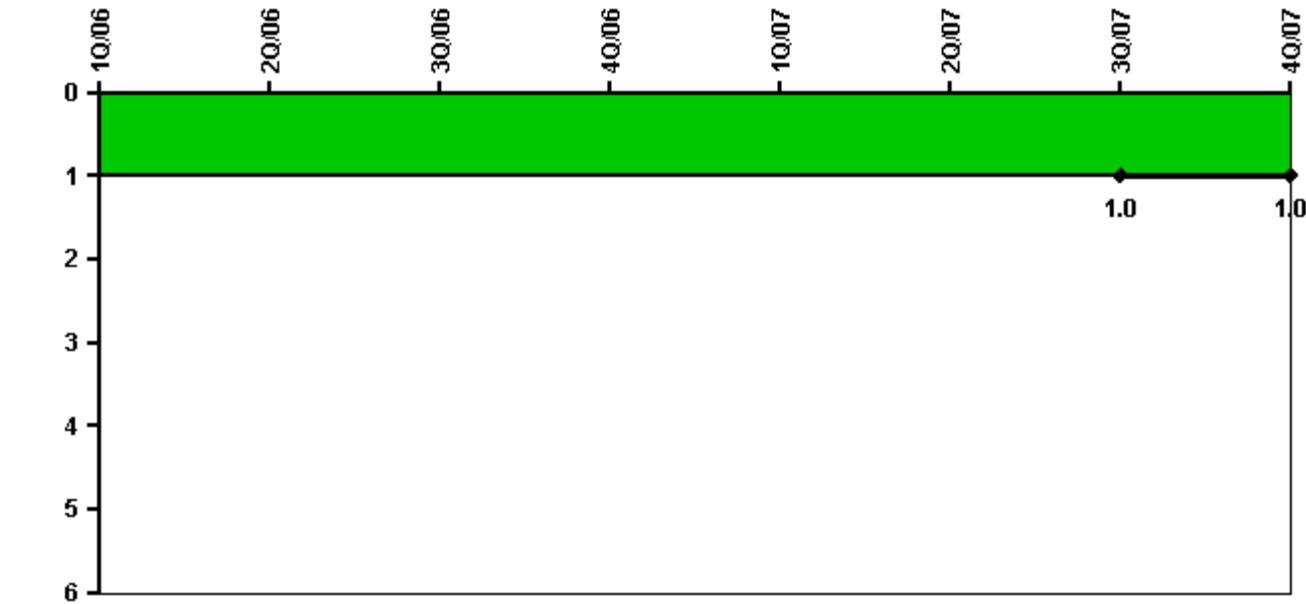
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned power changes	0	0	1.0	1.0	0	1.0	0	0
Critical hours	2148.6	1460.3	2187.3	2186.0	2144.9	2184.0	2208.0	2209.0
Indicator value	0.8	0.9	1.7	1.8	1.8	2.4	1.6	0.8

Licensee Comments: none

Unplanned Scrams with Complications



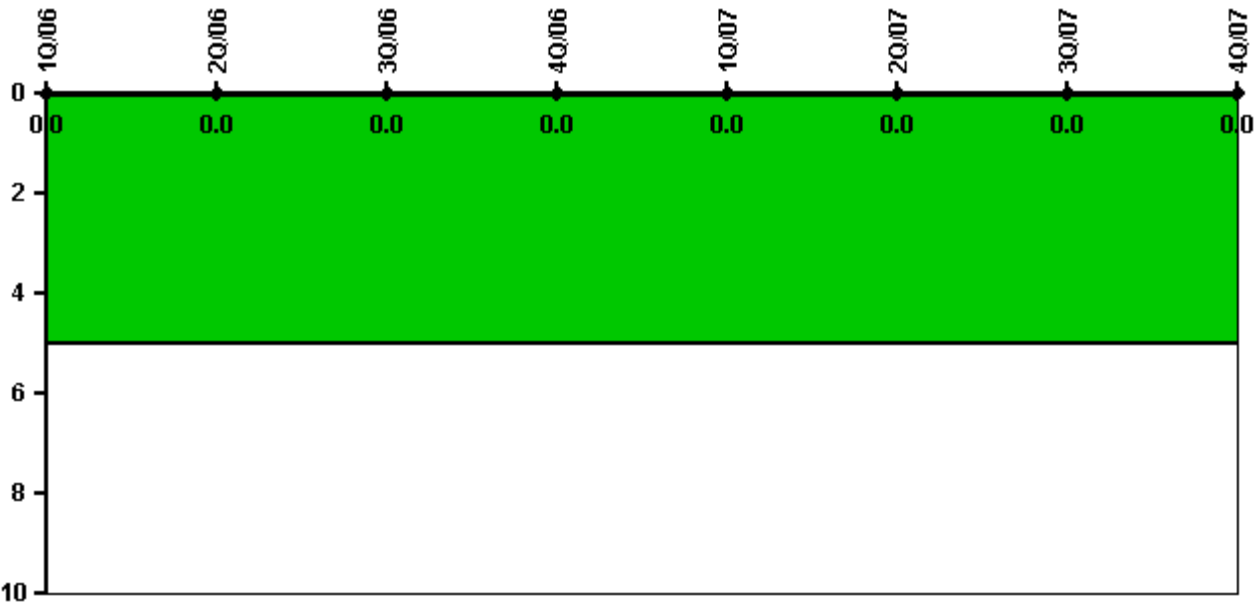
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



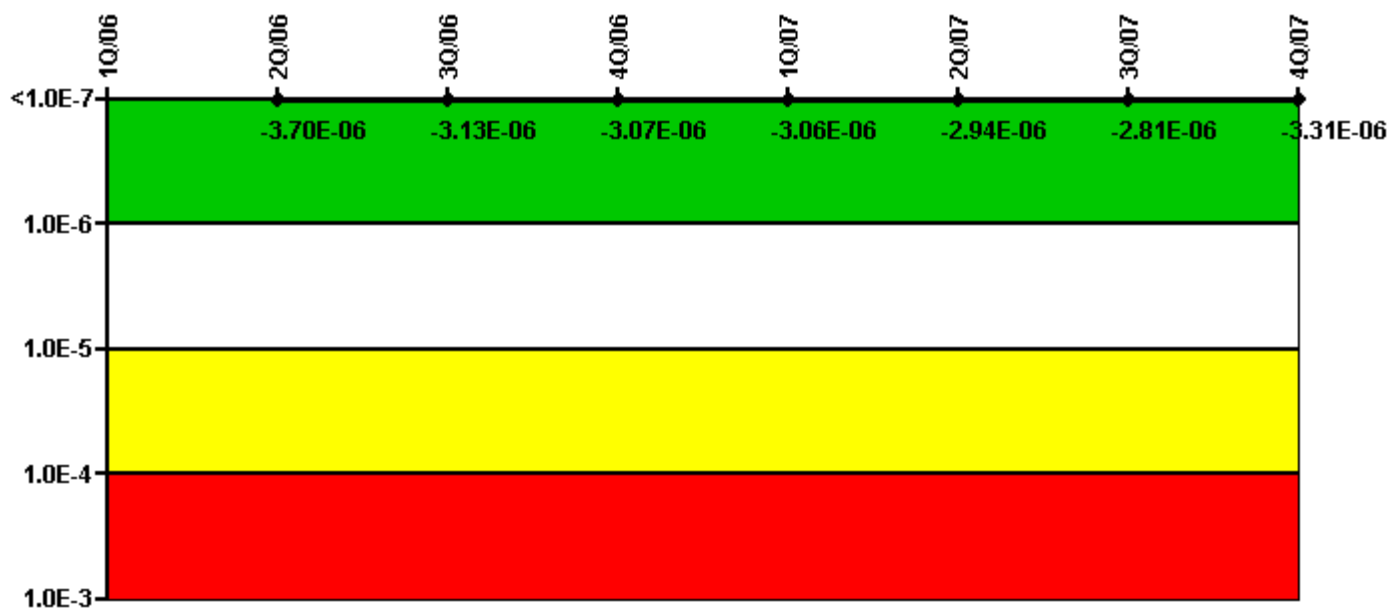
Thresholds: White > 5.0

Notes

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

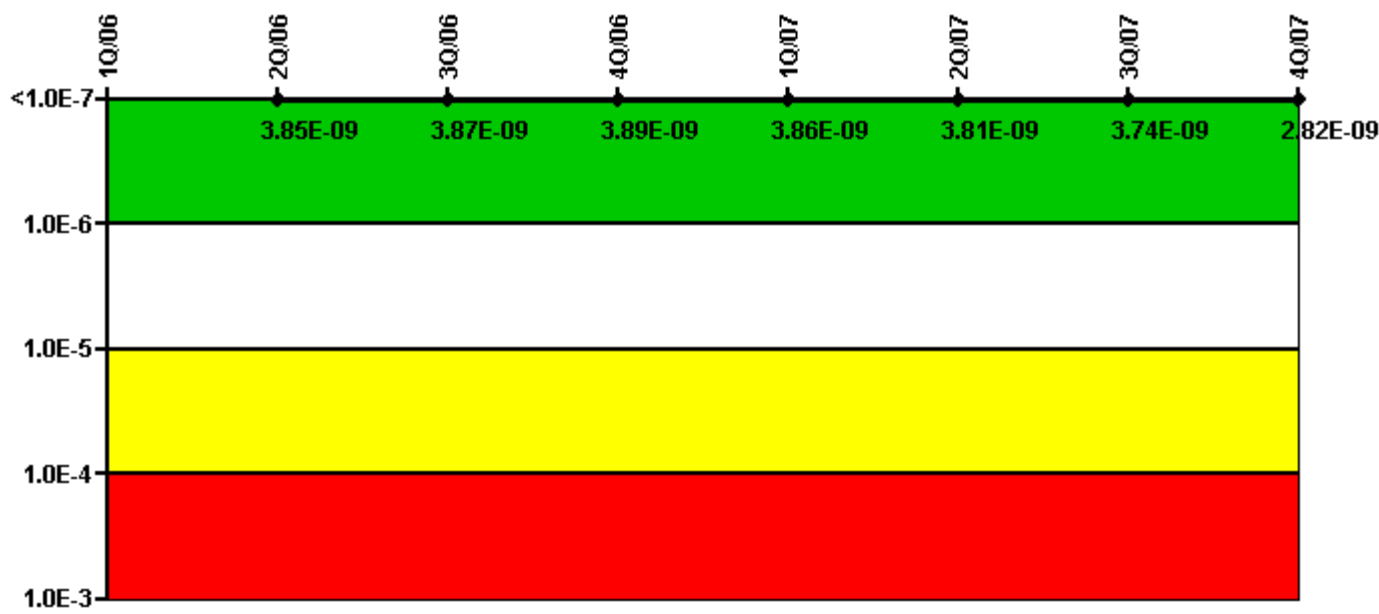
Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (ΔCDF)		9.80E-08	5.70E-07	6.30E-07	6.40E-07	7.60E-07	7.90E-07	4.90E-07
URI (ΔCDF)		-3.80E-06	-3.70E-06	-3.70E-06	-3.70E-06	-3.70E-06	-3.60E-06	-3.80E-06
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-3.70E-06	-3.13E-06	-3.07E-06	-3.06E-06	-2.94E-06	-2.81E-06	-3.31E-06

Licensee Comments:

4Q/07: The Unit 2 CDE PRA basis for the EDGs required changes as a result of an update of the Unit 2 PRA Baseline Model of record.

Mitigating Systems Performance Index, High Pressure Injection System



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

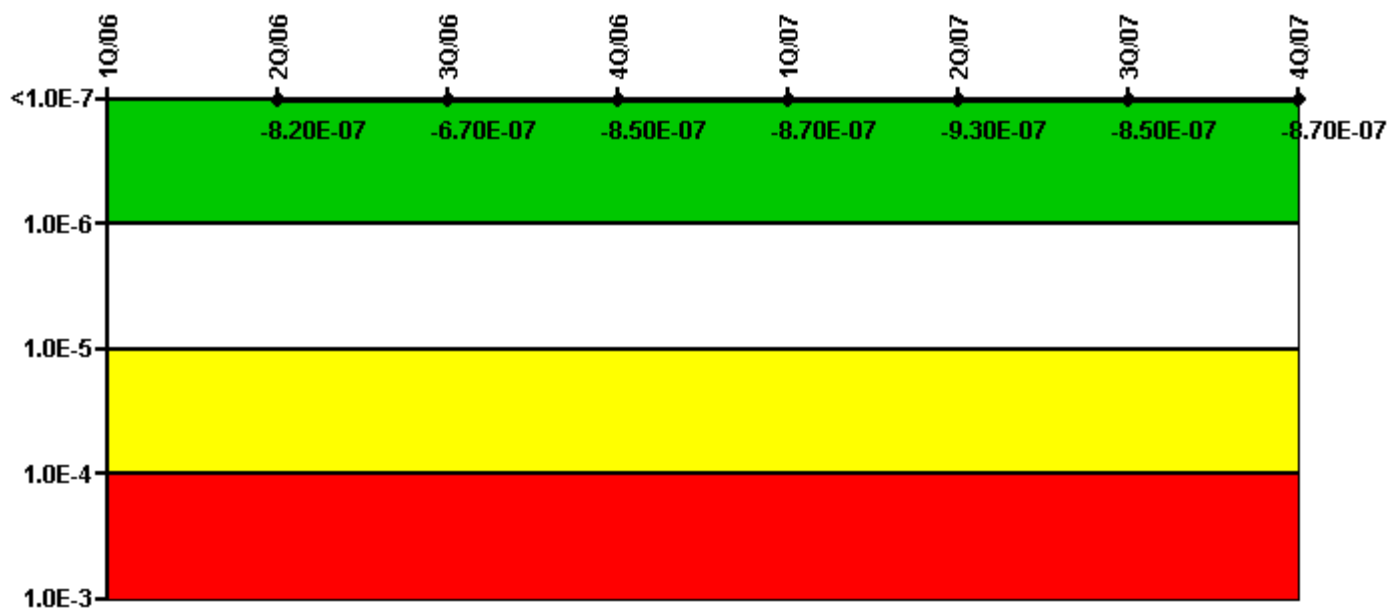
Notes

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)		2.50E-10	2.70E-10	2.90E-10	2.60E-10	2.10E-10	1.40E-10	1.70E-11
URI (ΔCDF)		3.60E-09	3.60E-09	3.60E-09	3.60E-09	3.60E-09	3.60E-09	2.80E-09
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		3.85E-09	3.87E-09	3.89E-09	3.86E-09	3.81E-09	3.74E-09	2.82E-09

Licensee Comments:

4Q/07: The Unit 2 CDE PRA basis for the HHSI System required changes as a result of an update of the Unit 2 PRA Baseline Model of record.

Mitigating Systems Performance Index, Heat Removal System



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

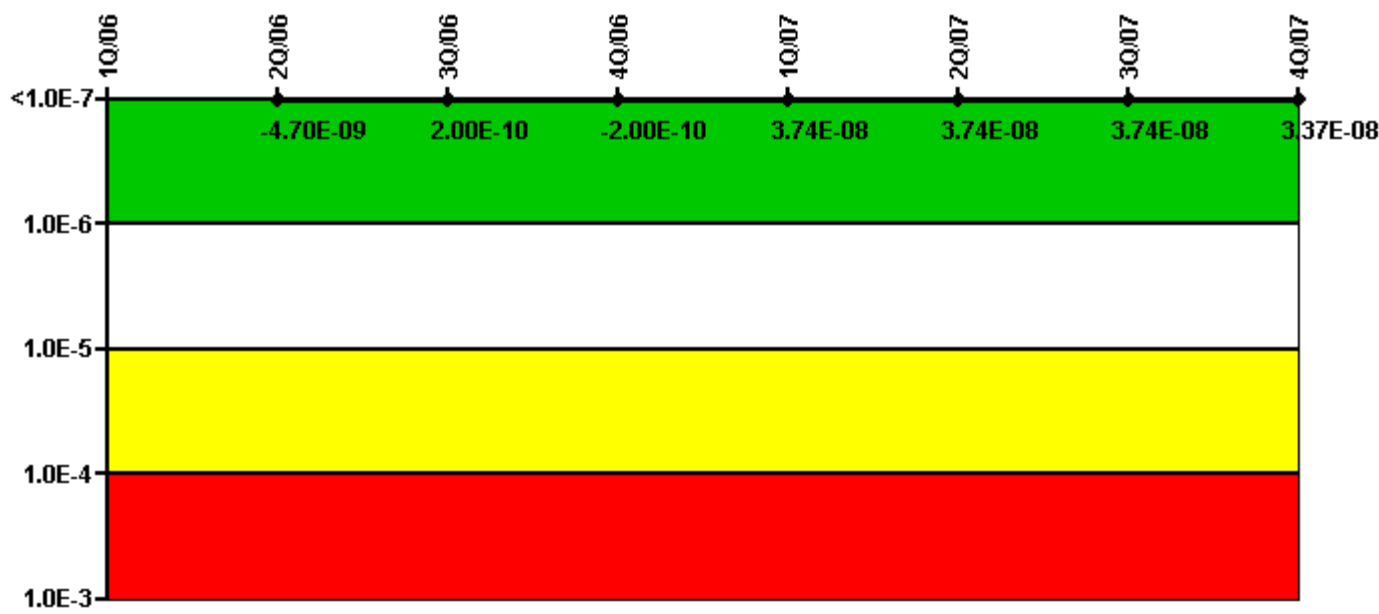
Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (ΔCDF)		2.80E-07	4.30E-07	3.50E-07	3.30E-07	2.70E-07	2.50E-07	2.30E-07
URI (ΔCDF)		-1.10E-06	-1.10E-06	-1.20E-06	-1.20E-06	-1.20E-06	-1.10E-06	-1.10E-06
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-8.20E-07	-6.70E-07	-8.50E-07	-8.70E-07	-9.30E-07	-8.50E-07	-8.70E-07

Licensee Comments:

4Q/07: The Unit 2 CDE PRA basis for the AFW System required changes as a result of an update of the Unit 2 PRA Baseline Model of record.

Mitigating Systems Performance Index, Residual Heat Removal System



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

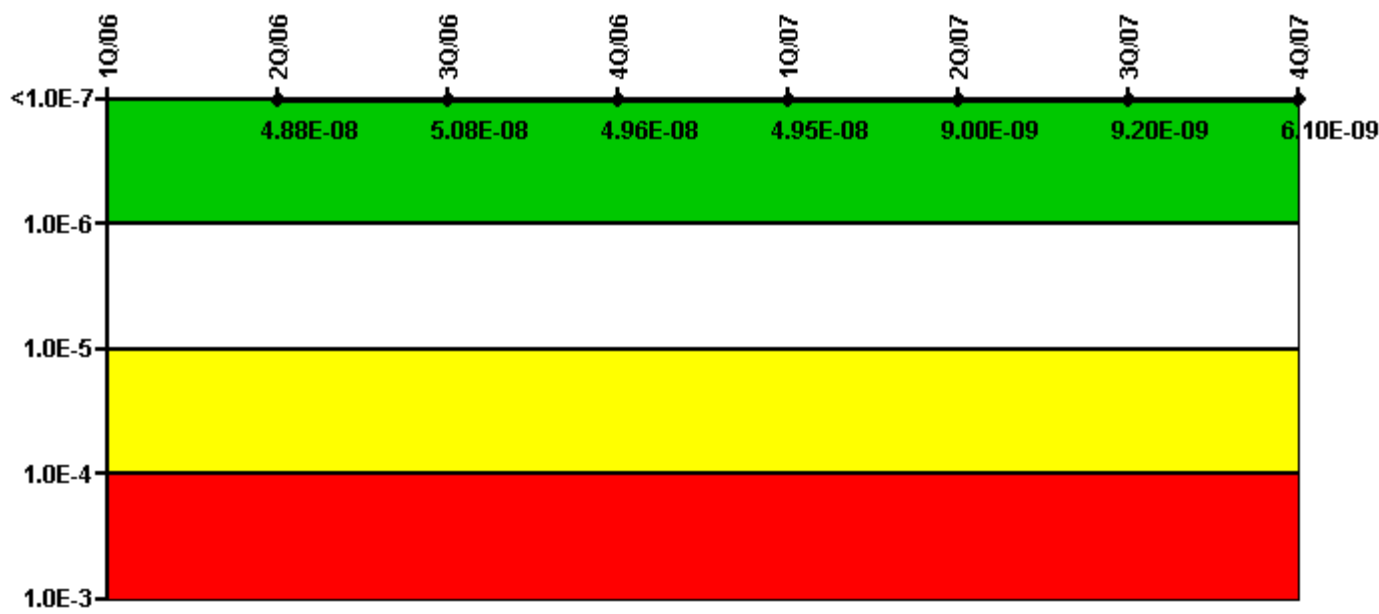
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (ΔCDF)		-1.10E-08	-5.60E-09	-5.60E-09	-5.60E-09	-5.60E-09	-5.60E-09	-1.30E-09
URI (ΔCDF)		6.30E-09	5.80E-09	5.40E-09	4.30E-08	4.30E-08	4.30E-08	3.50E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-4.70E-09	2.00E-10	-2.00E-10	3.74E-08	3.74E-08	3.74E-08	3.37E-08

Licensee Comments:

4Q/07: The Unit 2 CDE PRA basis for the RHR System required changes as a result of an update of the Unit 2 PRA Baseline Model of record.

Mitigating Systems Performance Index, Cooling Water Systems



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

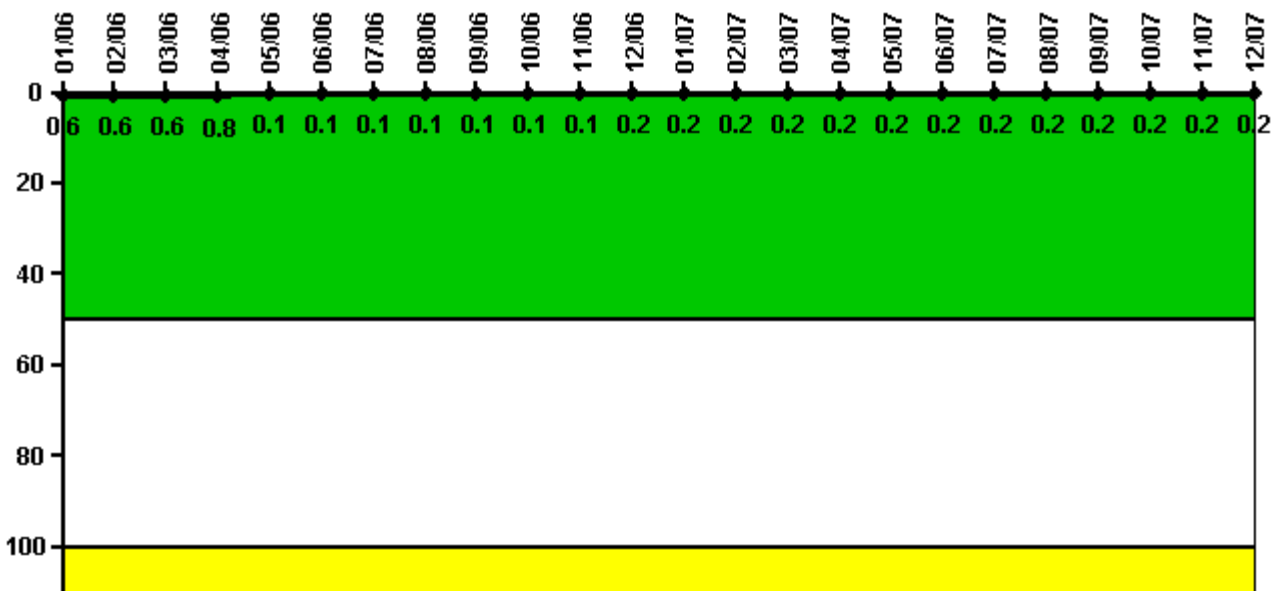
Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (ACDF)		1.80E-09	2.80E-09	2.60E-09	2.50E-09	-1.00E-08	-9.80E-09	-7.90E-09
URI (ACDF)		4.70E-08	4.80E-08	4.70E-08	4.70E-08	1.90E-08	1.90E-08	1.40E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		4.88E-08	5.08E-08	4.96E-08	4.95E-08	9.00E-09	9.20E-09	6.10E-09

Licensee Comments:

4Q/07: The Unit 2 CDE PRA basis for the CCW System and SW System required changes as a result of an update of the Unit 2 PRA Baseline Model of record.

Reactor Coolant System Activity



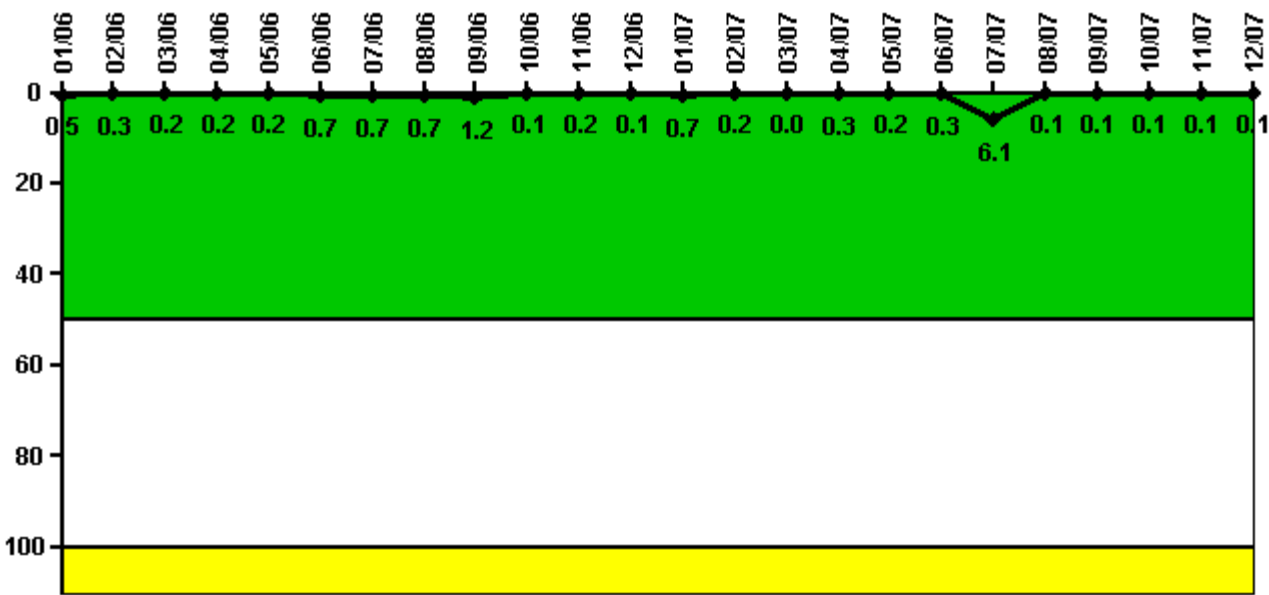
Thresholds: White > 50.0 Yellow > 100.0

Notes

[illegible]

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

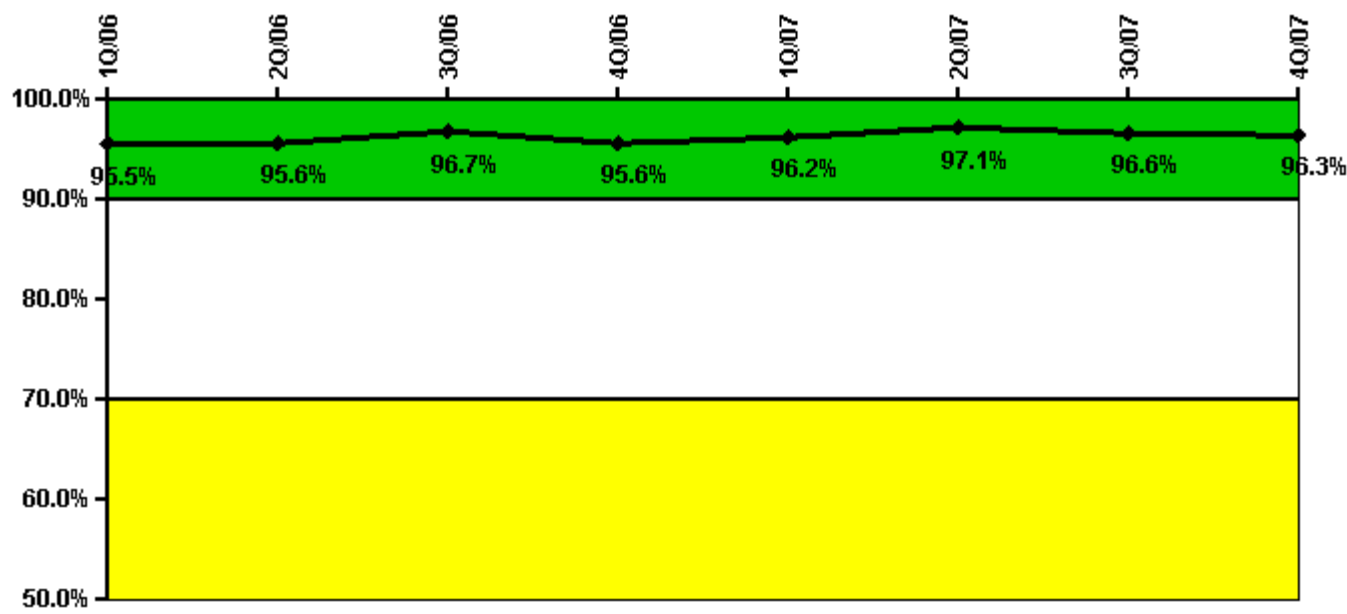
Notes

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	0.054	0.030	0.024	0.023	0.022	0.065	0.069	0.069	0.120	0.011	0.020	0.010
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.5	0.3	0.2	0.2	0.2	0.7	0.7	0.7	1.2	0.1	0.2	0.1

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	0.070	0.020	0	0.030	0.020	0.030	0.610	0.010	0.010	0.010	0.010	0.010
Technical specification limit	10.0	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	0.2	0	0.3	0.2	0.3	6.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Drill/Exercise Performance



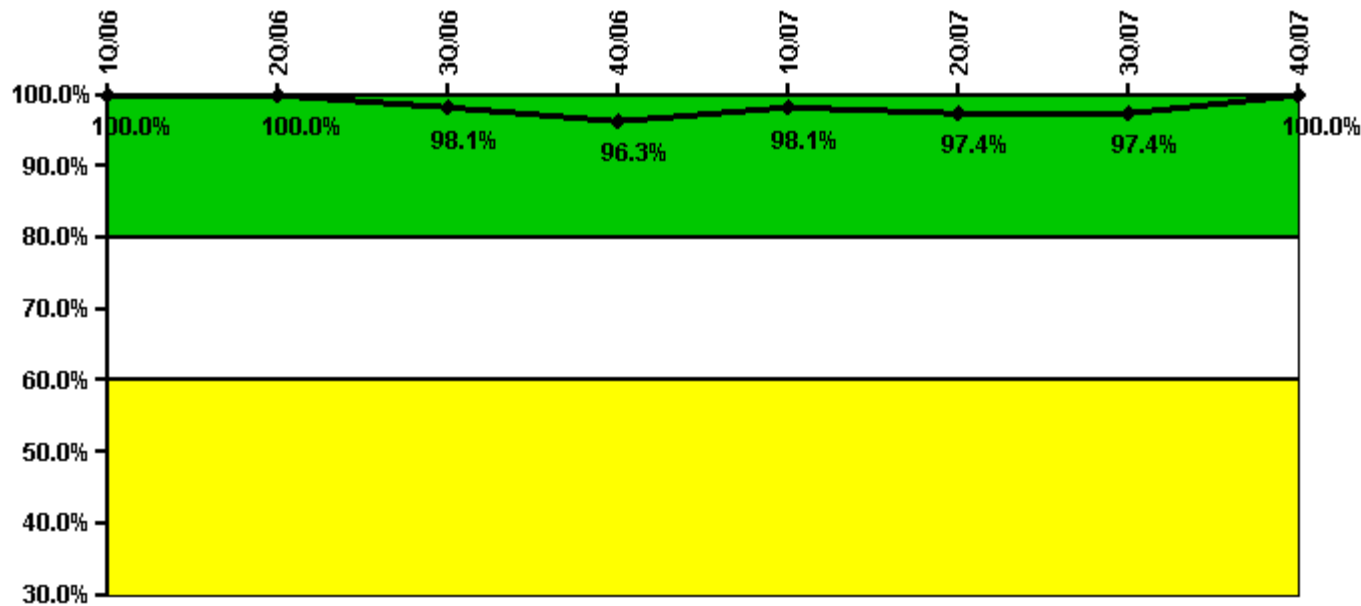
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful opportunities	37.0	30.0	73.0	11.0	19.0	57.0	72.0	66.0
Total opportunities	38.0	30.0	73.0	14.0	20.0	58.0	75.0	71.0
Indicator value	95.5%	95.6%	96.7%	95.6%	96.2%	97.1%	96.6%	96.3%

Licensee Comments: none

ERO Drill Participation



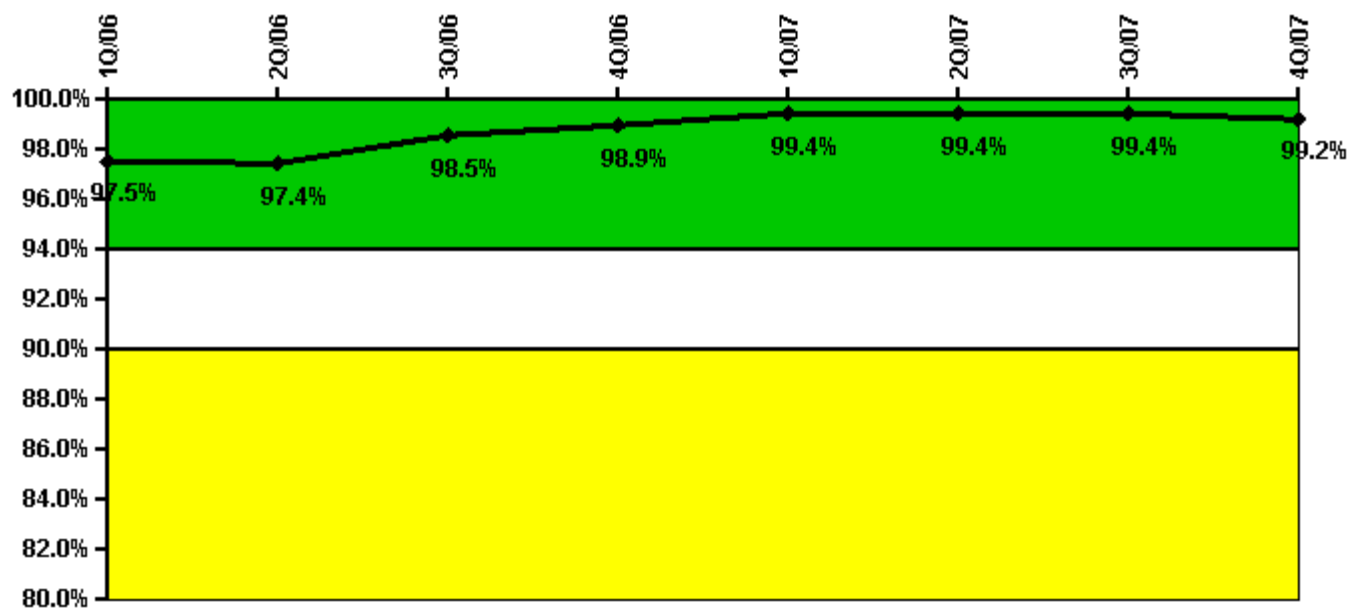
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Participating Key personnel	103.0	103.0	104.0	104.0	106.0	114.0	113.0	111.0
Total Key personnel	103.0	103.0	106.0	108.0	108.0	117.0	116.0	111.0
Indicator value	100.0%	100.0%	98.1%	96.3%	98.1%	97.4%	97.4%	100.0%

Licensee Comments: none

Alert & Notification System



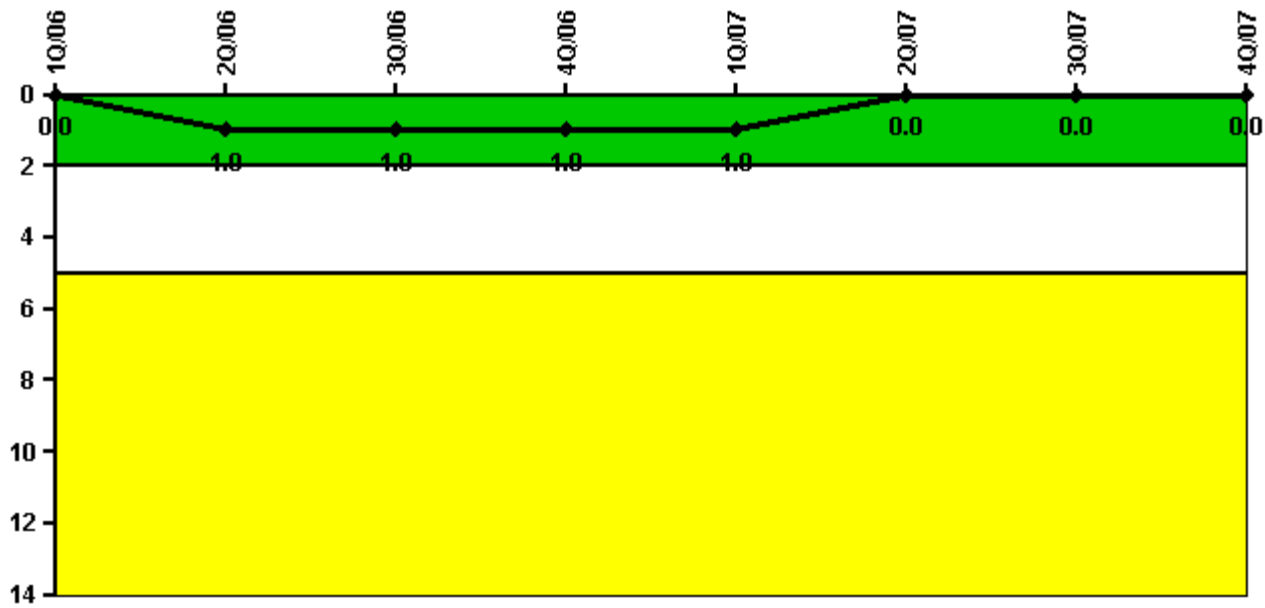
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful siren-tests	984	1083	882	885	728	965	536	618
Total sirens-tests	1010	1092	888	888	732	974	540	625
Indicator value	97.5%	97.4%	98.5%	98.9%	99.4%	99.4%	99.4%	99.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness



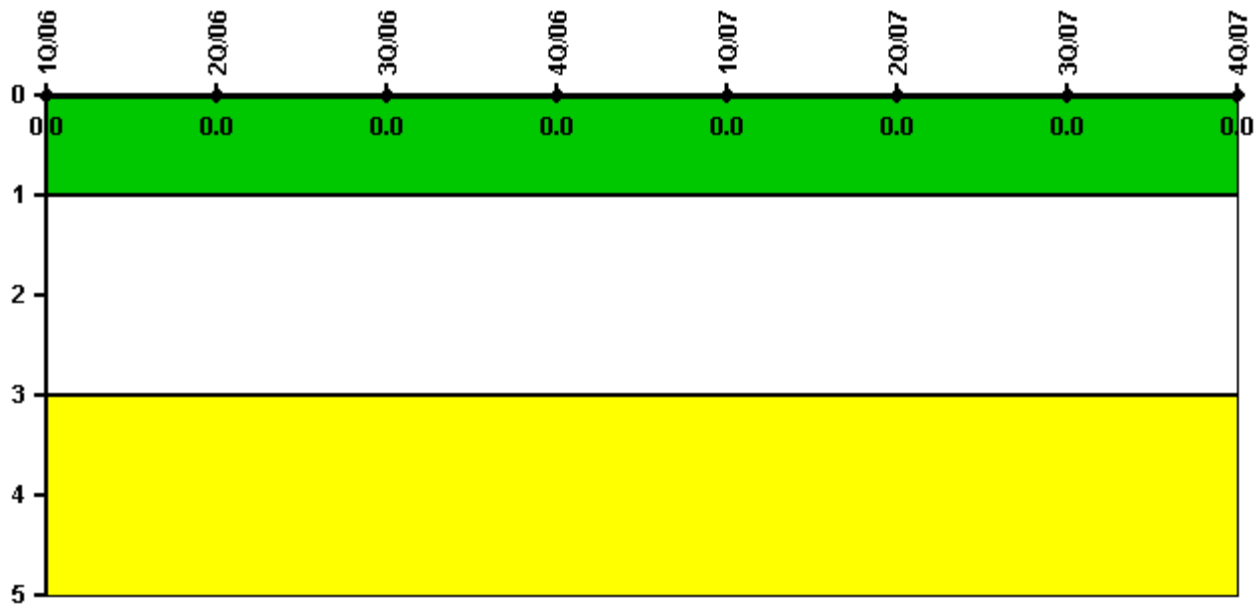
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	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	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](#)

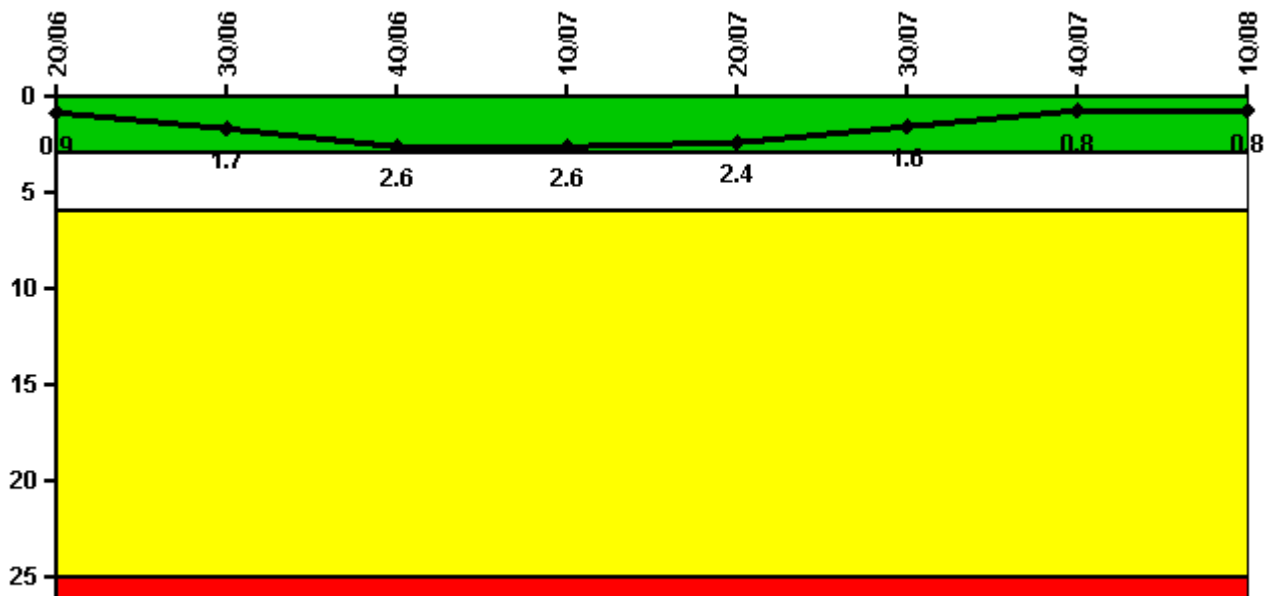
Last Modified: February 4, 2008

Indian Point 2

1Q/2008 Performance Indicators

Licensee's General Comments: A demand failure for the 36 SW Pump was added to the October 2007 MSPI.

Unplanned Scrams per 7000 Critical Hrs



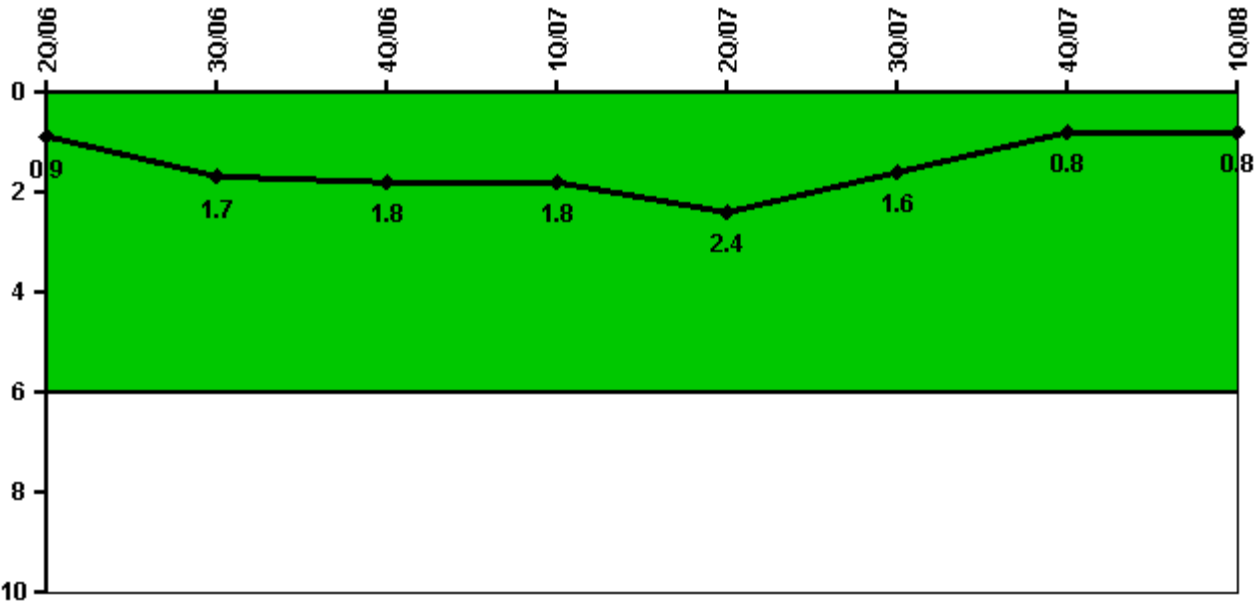
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned scrams	0	1.0	1.0	1.0	0	0	0	1.0
Critical hours	1460.3	2187.3	2186.0	2144.9	2184.0	2208.0	2209.0	1989.3
Indicator value	0.9	1.7	2.6	2.6	2.4	1.6	0.8	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



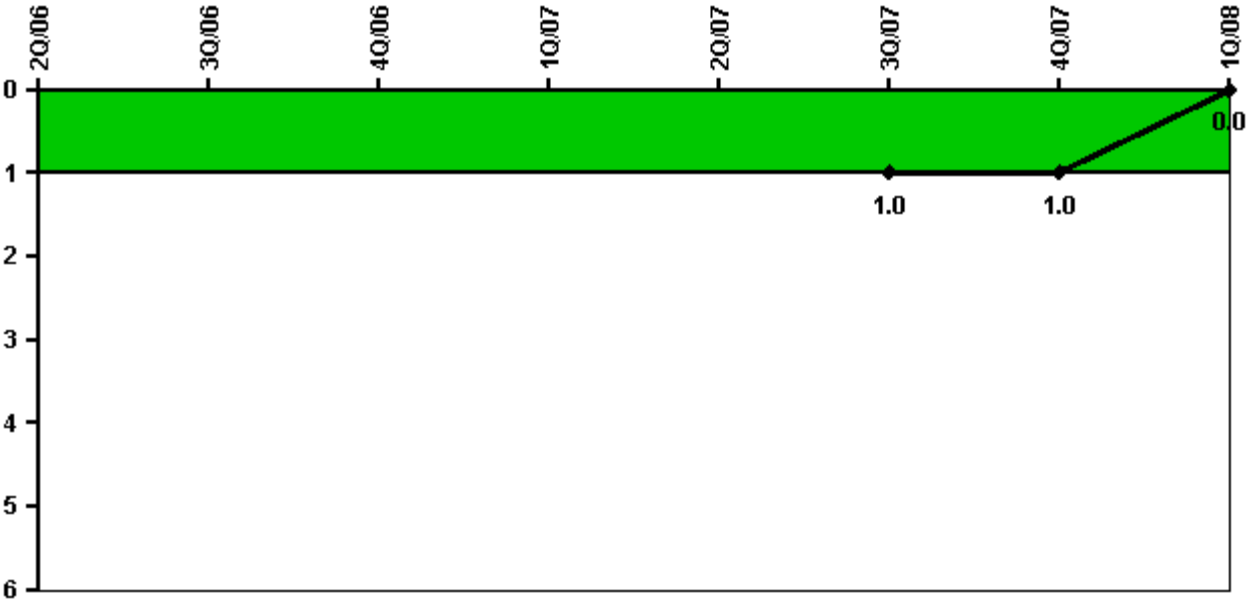
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned power changes	0	1.0	1.0	0	1.0	0	0	0
Critical hours	1460.3	2187.3	2186.0	2144.9	2184.0	2208.0	2209.0	1989.3
Indicator value	0.9	1.7	1.8	1.8	2.4	1.6	0.8	0.8

Licensee Comments: none

Unplanned Scrams with Complications



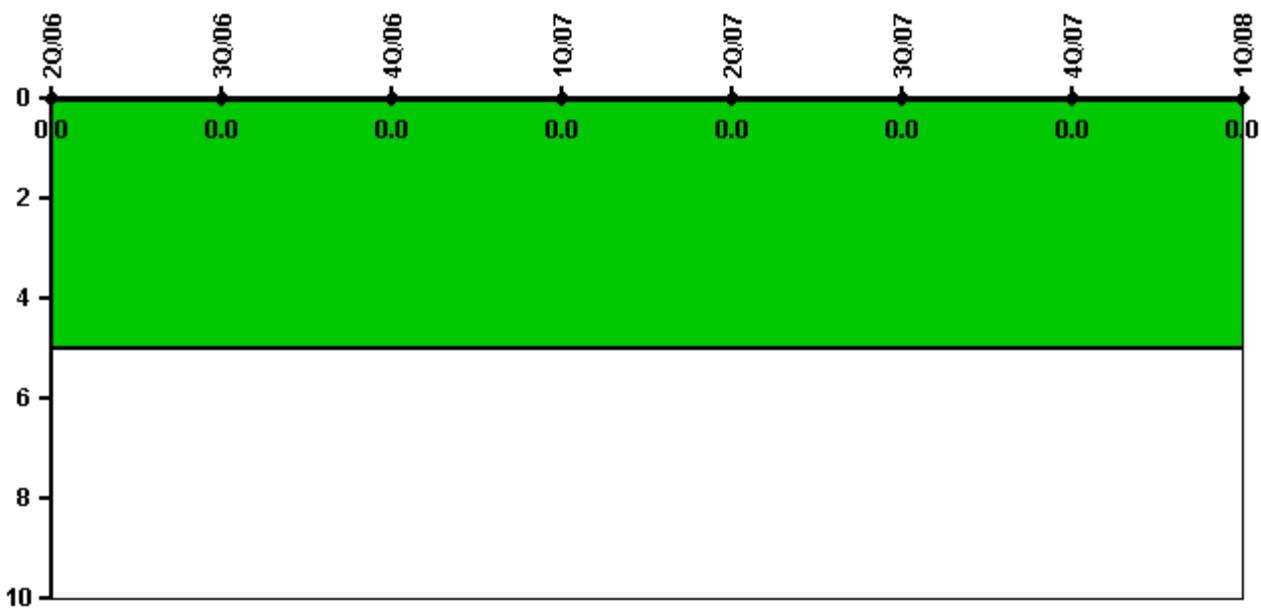
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



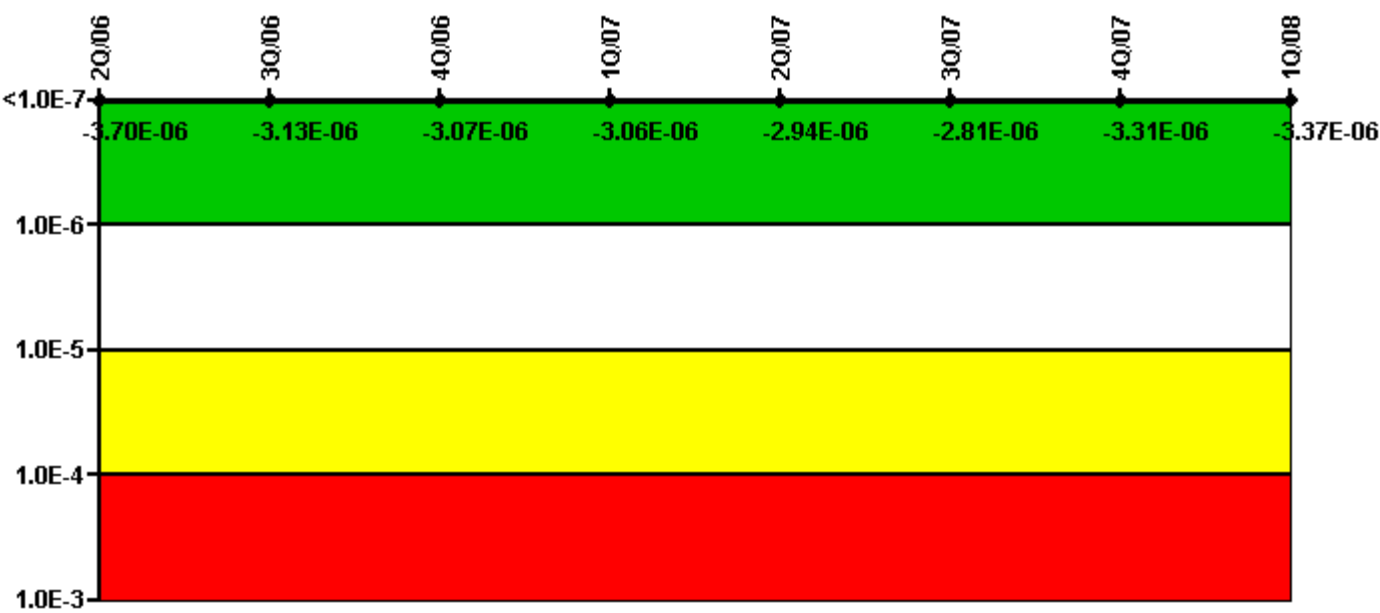
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



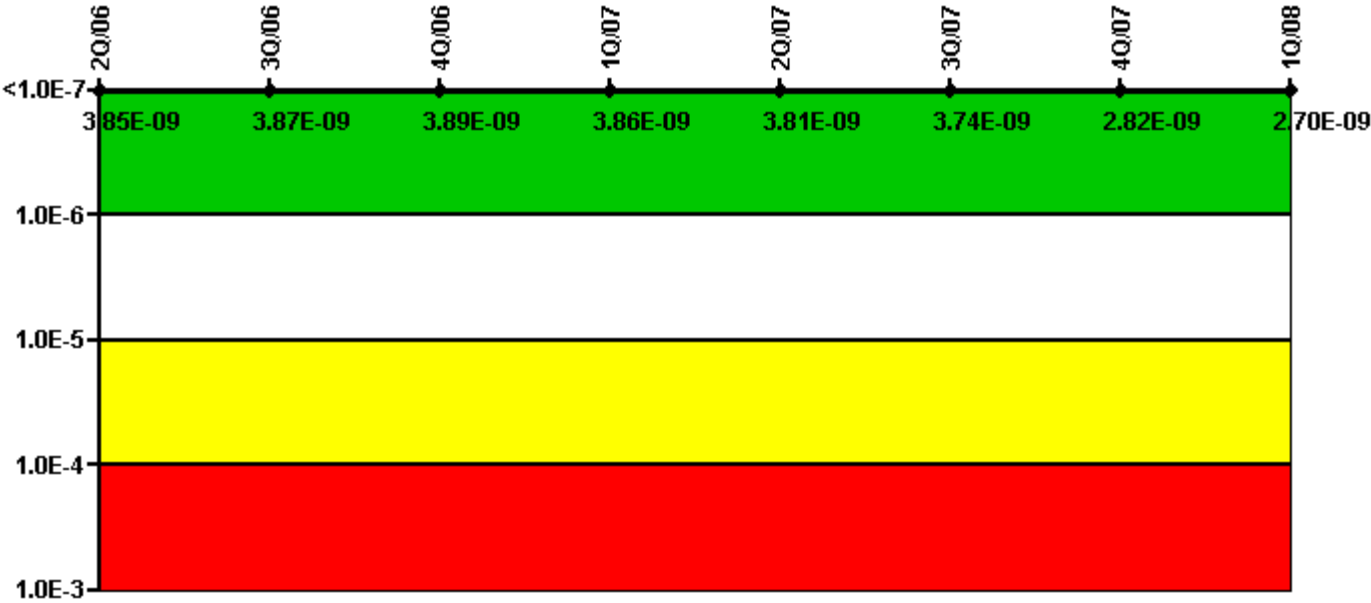
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	9.80E-08	5.70E-07	6.30E-07	6.40E-07	7.60E-07	7.90E-07	4.90E-07	5.30E-07
URI (ΔCDF)	-3.80E-06	-3.70E-06	-3.70E-06	-3.70E-06	-3.70E-06	-3.60E-06	-3.80E-06	-3.90E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.70E-06	-3.13E-06	-3.07E-06	-3.06E-06	-2.94E-06	-2.81E-06	-3.31E-06	-3.37E-06

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



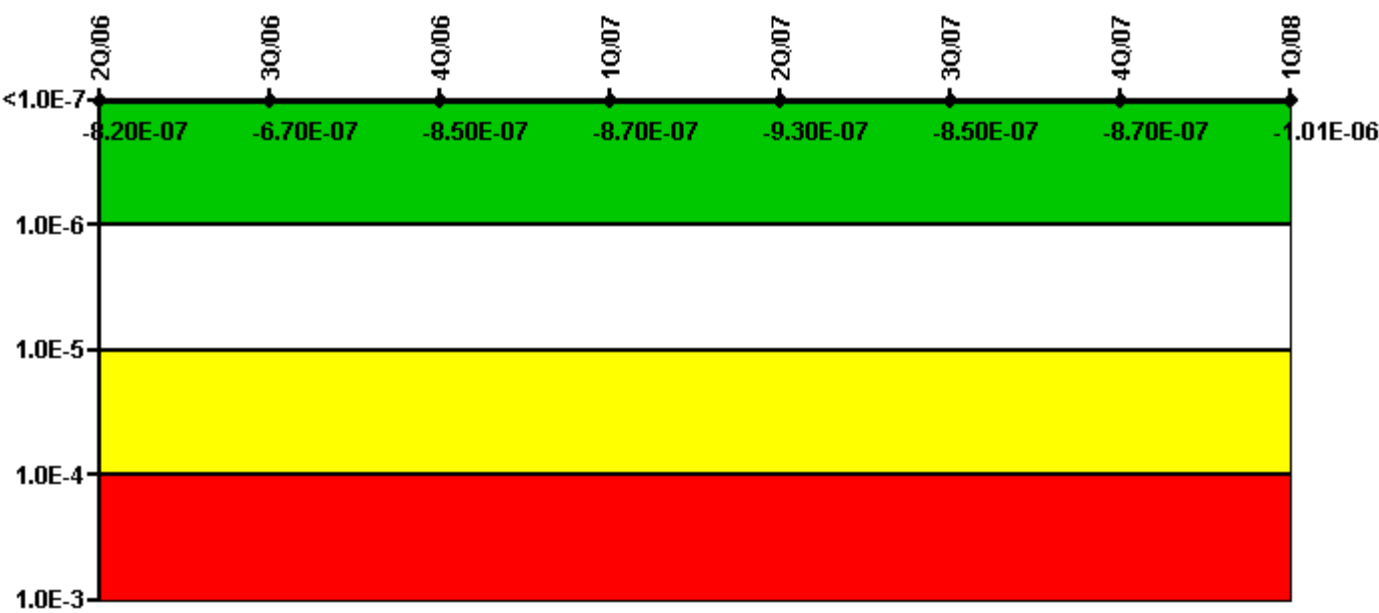
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	2.50E-10	2.70E-10	2.90E-10	2.60E-10	2.10E-10	1.40E-10	1.70E-11	-1.00E-10
URI (ΔCDF)	3.60E-09	3.60E-09	3.60E-09	3.60E-09	3.60E-09	3.60E-09	2.80E-09	2.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.85E-09	3.87E-09	3.89E-09	3.86E-09	3.81E-09	3.74E-09	2.82E-09	2.70E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



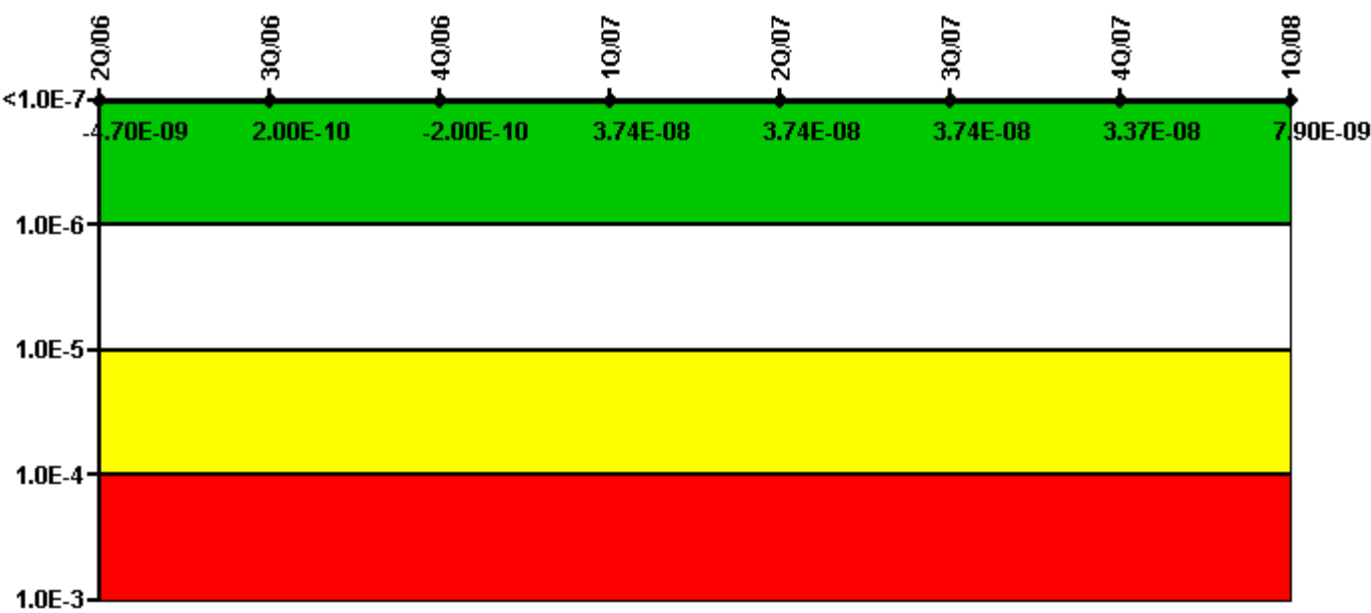
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	2.80E-07	4.30E-07	3.50E-07	3.30E-07	2.70E-07	2.50E-07	2.30E-07	1.90E-07
URI (ΔCDF)	-1.10E-06	-1.10E-06	-1.20E-06	-1.20E-06	-1.20E-06	-1.10E-06	-1.10E-06	-1.20E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.20E-07	-6.70E-07	-8.50E-07	-8.70E-07	-9.30E-07	-8.50E-07	-8.70E-07	-1.01E-06

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

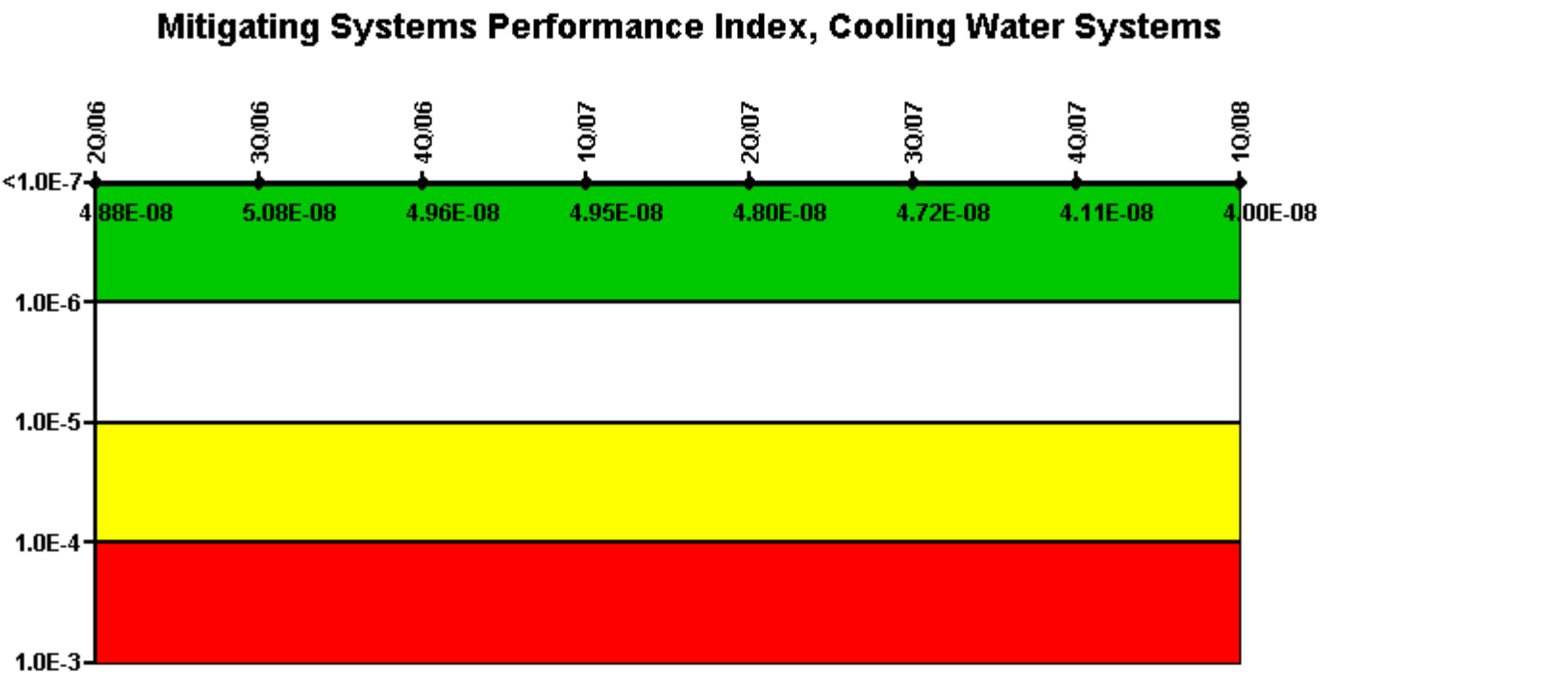


Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	-1.10E-08	-5.60E-09	-5.60E-09	-5.60E-09	-5.60E-09	-5.60E-09	-1.30E-09	-1.20E-09
URI (ΔCDF)	6.30E-09	5.80E-09	5.40E-09	4.30E-08	4.30E-08	4.30E-08	3.50E-08	9.10E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.70E-09	2.00E-10	-2.00E-10	3.74E-08	3.74E-08	3.74E-08	3.37E-08	7.90E-09

Licensee Comments: none



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

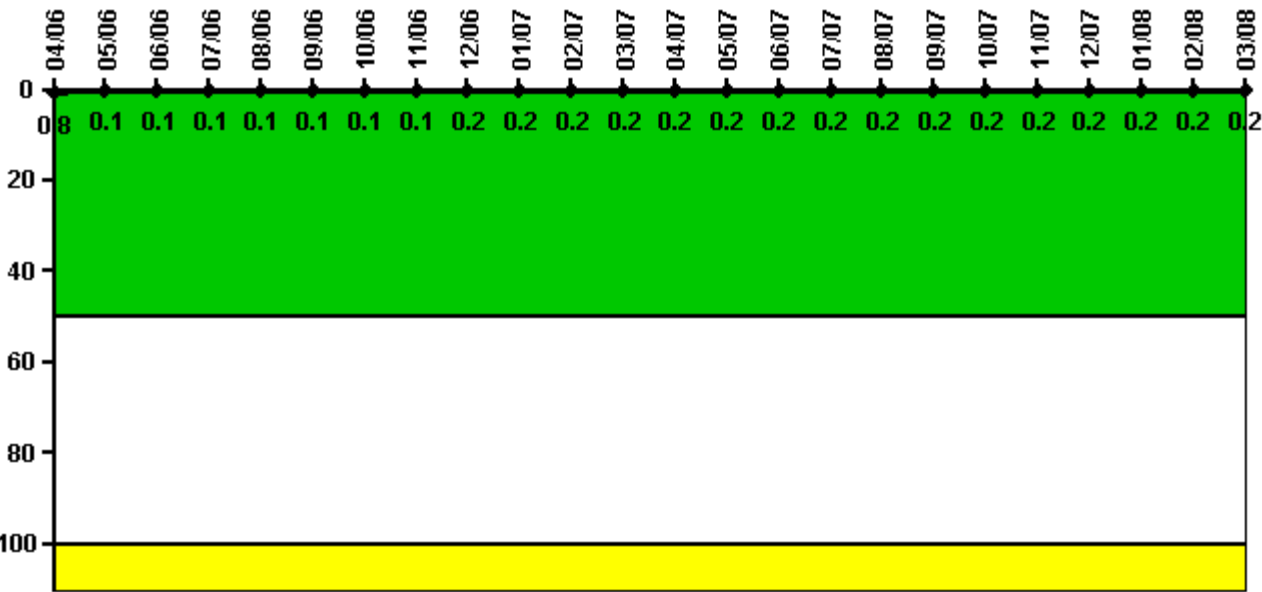
Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	1.80E-09	2.80E-09	2.60E-09	2.50E-09	-1.00E-08	-9.80E-09	-7.90E-09	-6.00E-09
URI (ΔCDF)	4.70E-08	4.80E-08	4.70E-08	4.70E-08	5.80E-08	5.70E-08	4.90E-08	4.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.88E-08	5.08E-08	4.96E-08	4.95E-08	4.80E-08	4.72E-08	4.11E-08	4.00E-08

Licensee Comments:

4Q/07: The Unit 2 CDE PRA basis for the CCW System and SW System required changes as a result of an update of the Unit 2 PRA Baseline Model of record.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

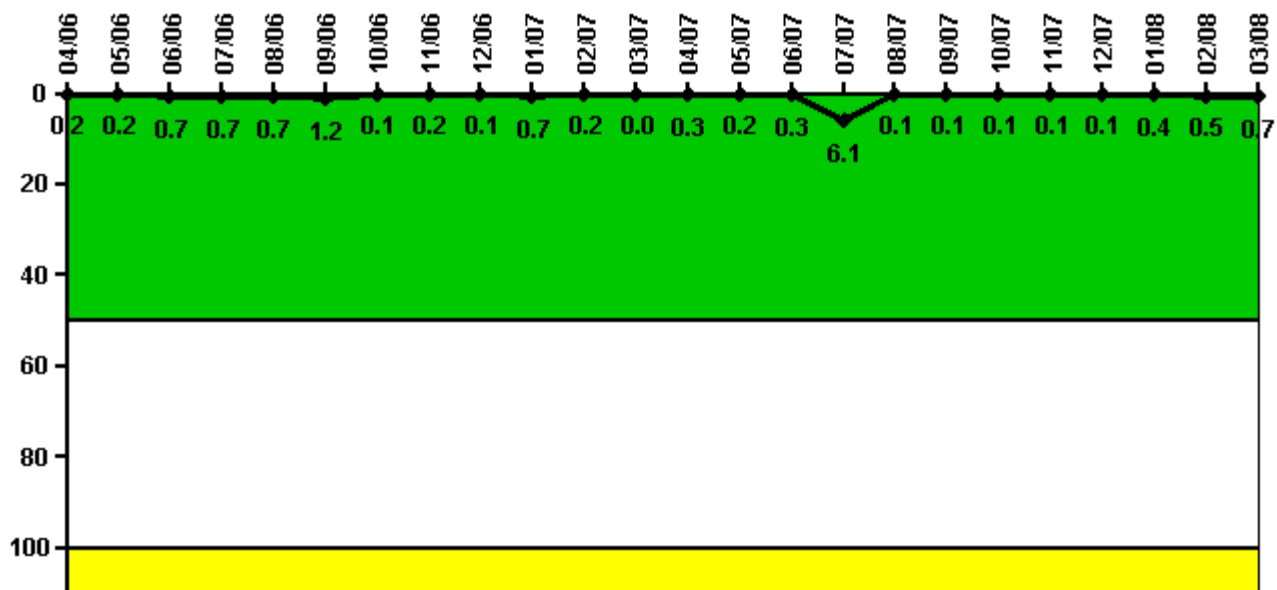
Notes

Reactor Coolant System Activity	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum activity	0.008170	0.001100	0.001260	0.001360	0.001380	0.001310	0.001410	0.001480	0.001600	0.001540	0.001580	0.001650
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2

Reactor Coolant System Activity	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum activity	0.001810	0.001740	0.001660	0.001840	0.001850	0.001930	0.002050	0.002020	0.002040	0.002140	0.002070	0.002220
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



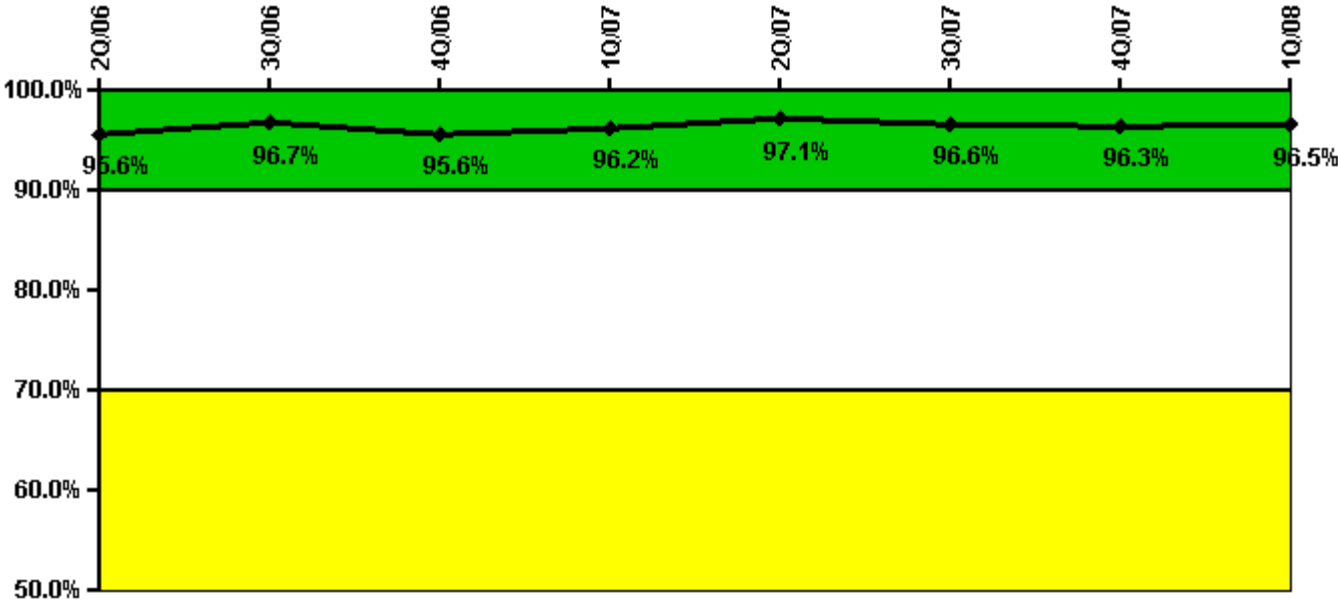
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum leakage	0.023	0.022	0.065	0.069	0.069	0.120	0.011	0.020	0.010	0.070	0.020	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	0.2	0.2	0.7	0.7	0.7	1.2	0.1	0.2	0.1	0.7	0.2	0
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	0.030	0.020	0.030	0.610	0.010	0.010	0.010	0.010	0.010	0.040	0.050	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.3	0.2	0.3	6.1	0.1	0.1	0.1	0.1	0.1	0.4	0.5	0.7

Licensee Comments: none

Drill/Exercise Performance



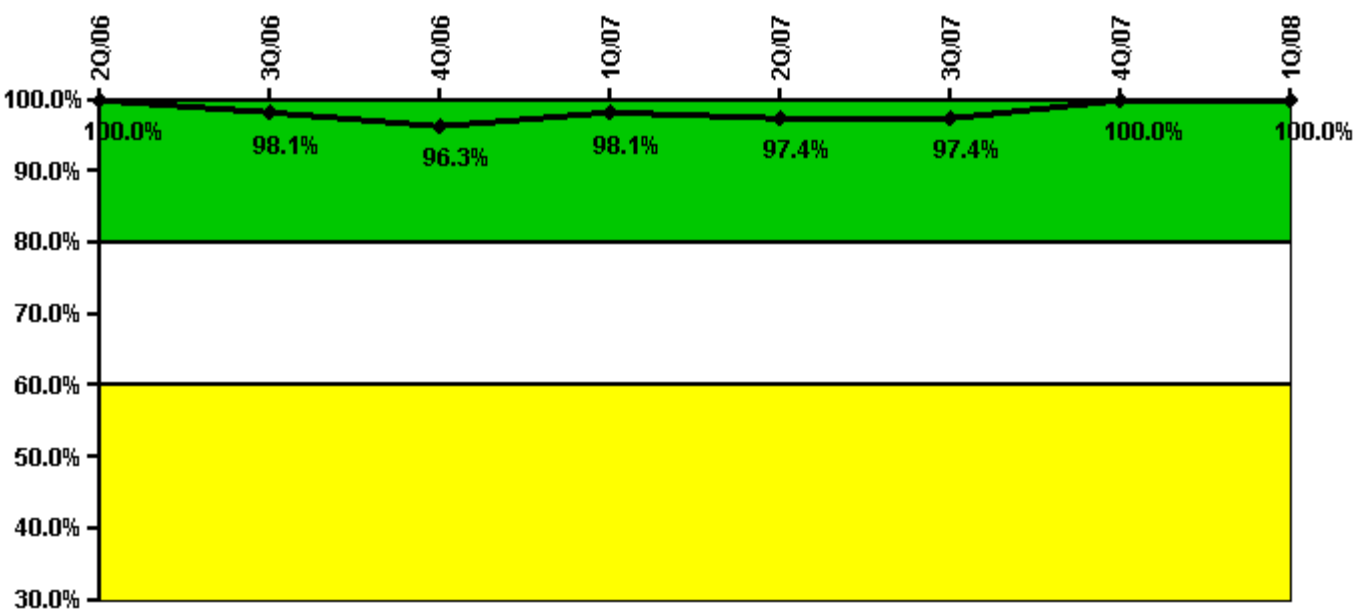
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful opportunities	30.0	73.0	11.0	19.0	57.0	72.0	66.0	28.0
Total opportunities	30.0	73.0	14.0	20.0	58.0	75.0	71.0	28.0
Indicator value	95.6%	96.7%	95.6%	96.2%	97.1%	96.6%	96.3%	96.5%

Licensee Comments: none

ERO Drill Participation



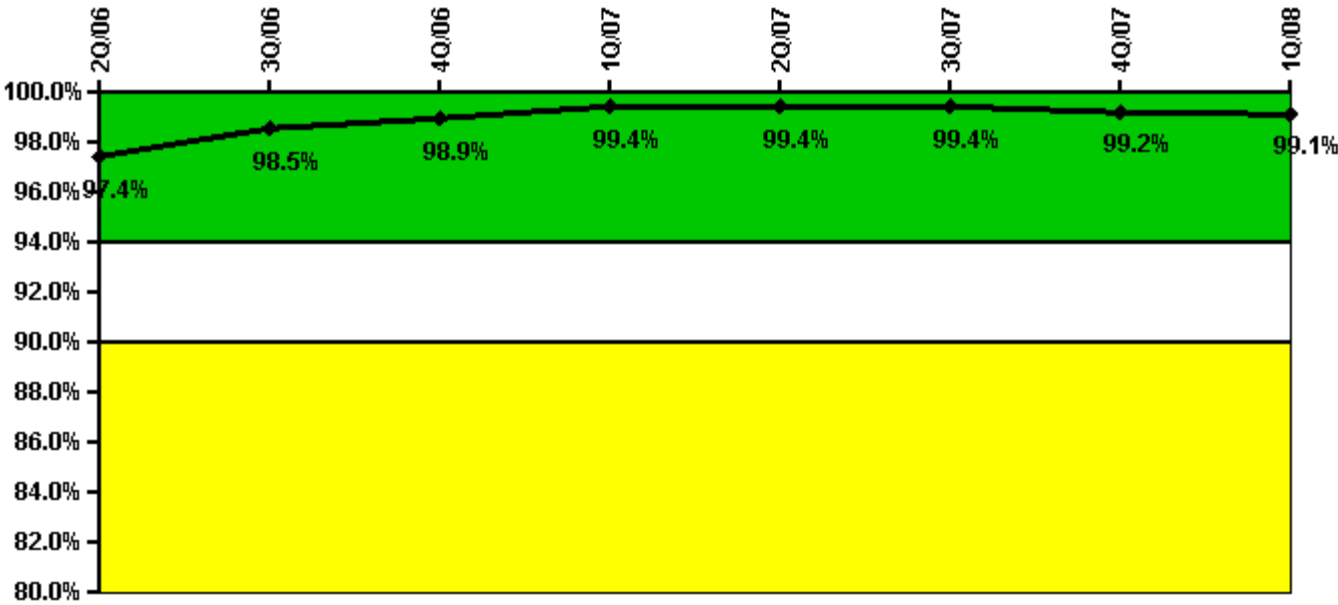
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Participating Key personnel	103.0	104.0	104.0	106.0	114.0	113.0	111.0	114.0
Total Key personnel	103.0	106.0	108.0	108.0	117.0	116.0	111.0	114.0
Indicator value	100.0%	98.1%	96.3%	98.1%	97.4%	97.4%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



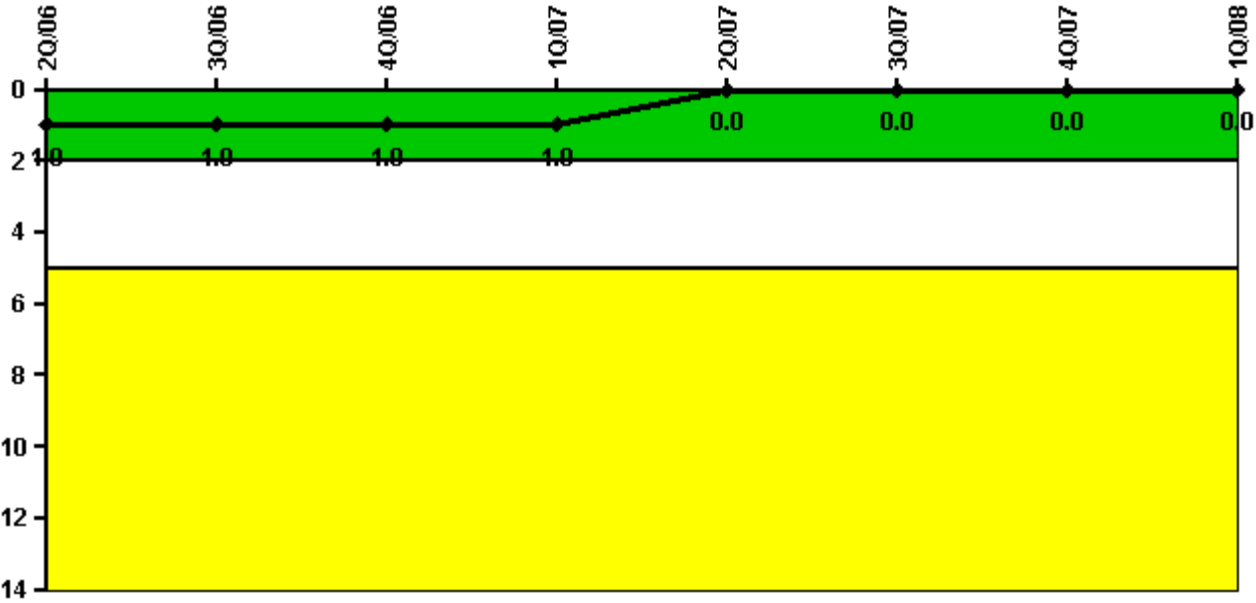
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful siren-tests	1083	882	885	728	965	536	618	786
Total sirens-tests	1092	888	888	732	974	540	625	793
Indicator value	97.4%	98.5%	98.9%	99.4%	99.4%	99.4%	99.2%	99.1%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	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	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](#)

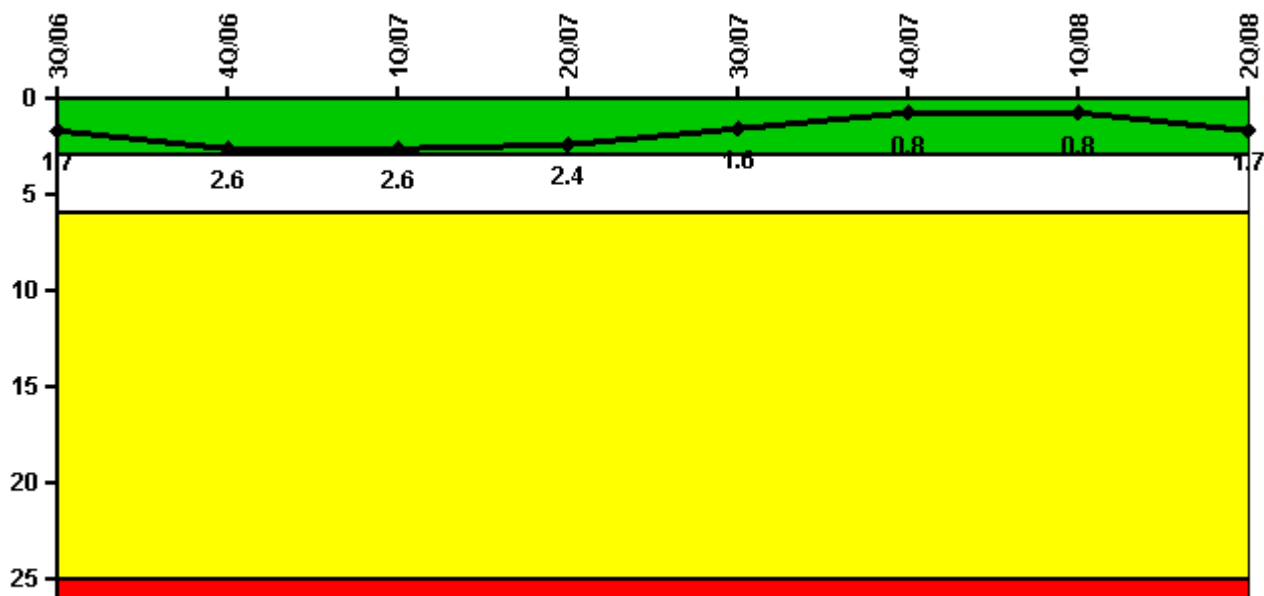
Last Modified: April 30, 2008

Indian Point 2

2Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

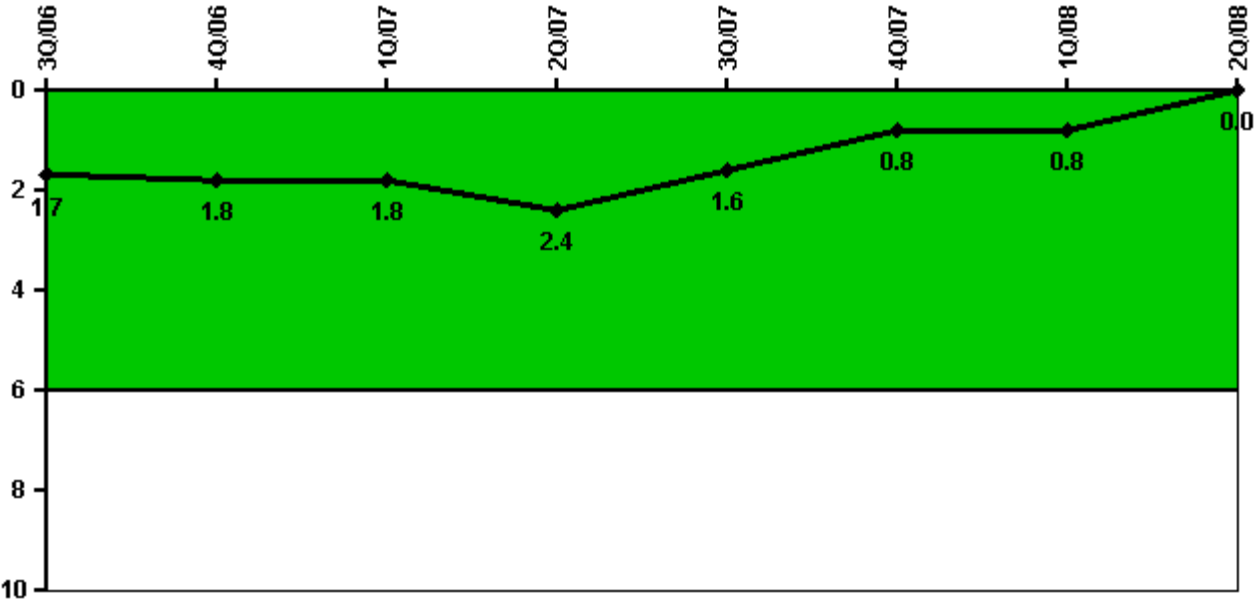
Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned scrams	1.0	1.0	1.0	0	0	0	1.0	1.0
Critical hours	2187.3	2186.0	2144.9	2184.0	2208.0	2209.0	1989.3	1724.9
Indicator value	1.7	2.6	2.6	2.4	1.6	0.8	0.8	1.7

Licensee Comments:

2Q/08: LER-2008-003 reported a manual reactor trip on April 21, 2008, during power asension from a refueling outage due to decreasing steam generator levels and a main turbine runback as a result of a failed bistable in the turbine runback circuit and the runback switch mispositioned to Armed.

Unplanned Power Changes per 7000 Critical Hrs



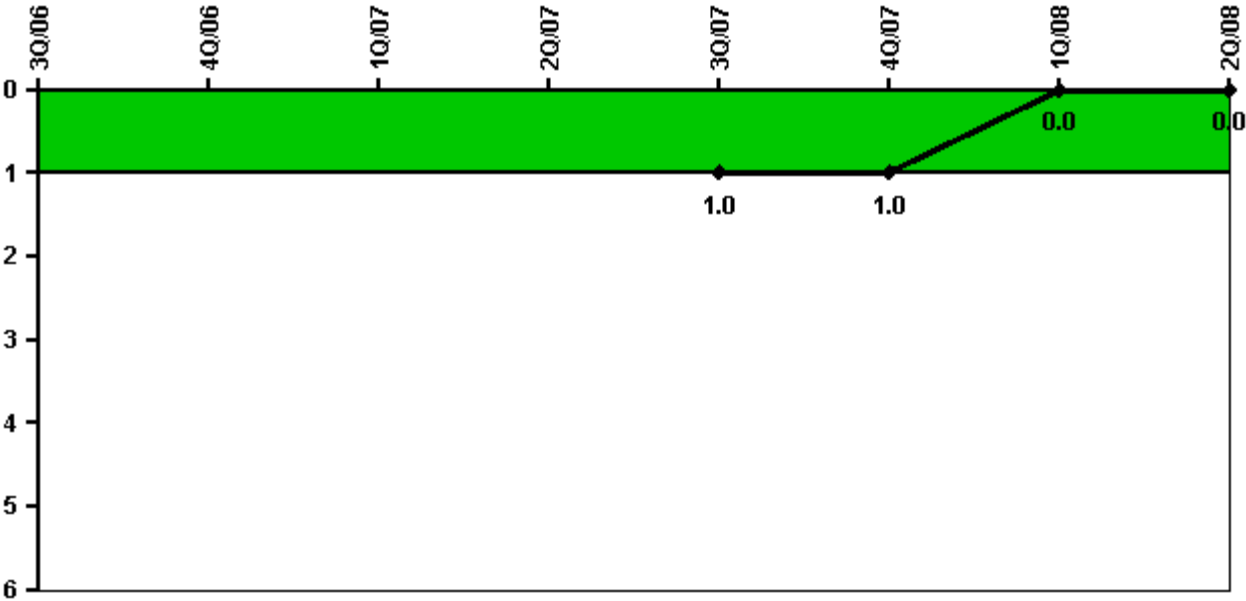
Thresholds: White > 6.0

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	1.0	1.0	0	1.0	0	0	0	0
Critical hours	2187.3	2186.0	2144.9	2184.0	2208.0	2209.0	1989.3	1724.9
Indicator value	1.7	1.8	1.8	2.4	1.6	0.8	0.8	0

Licensee Comments: none

Unplanned Scrams with Complications



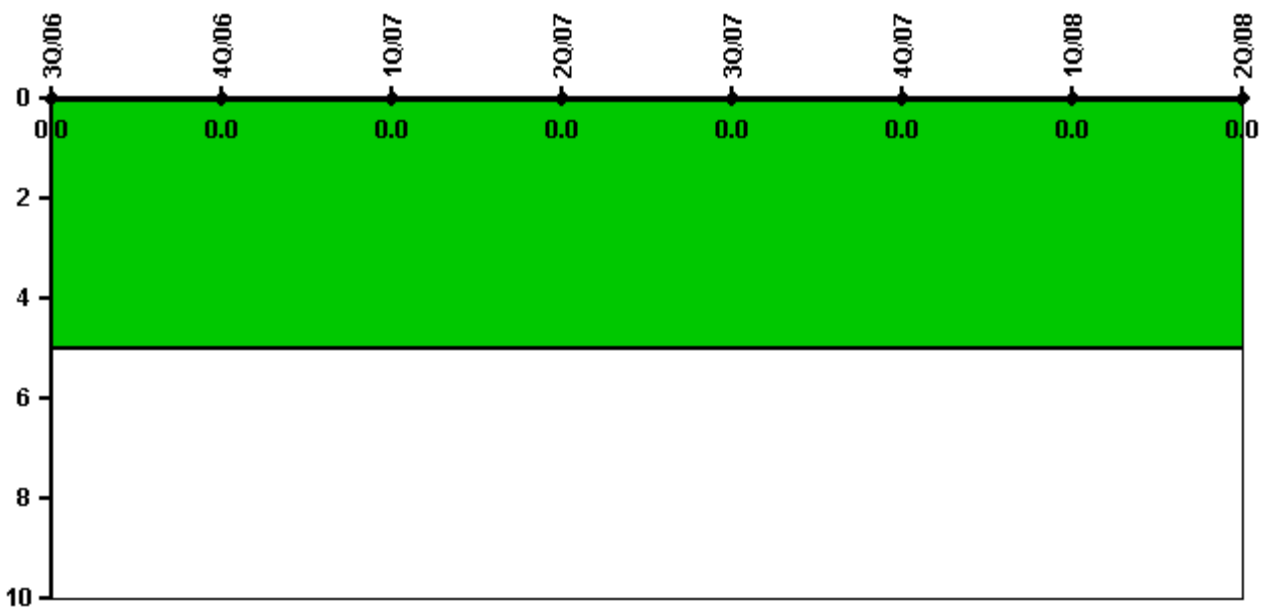
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



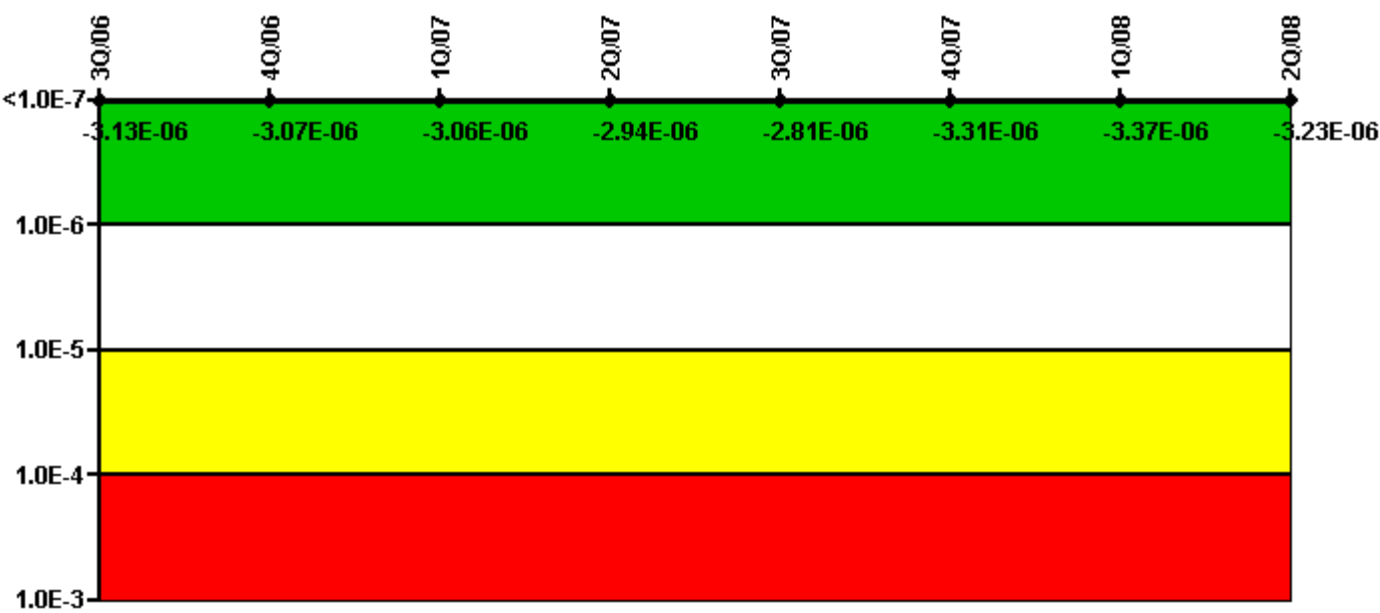
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



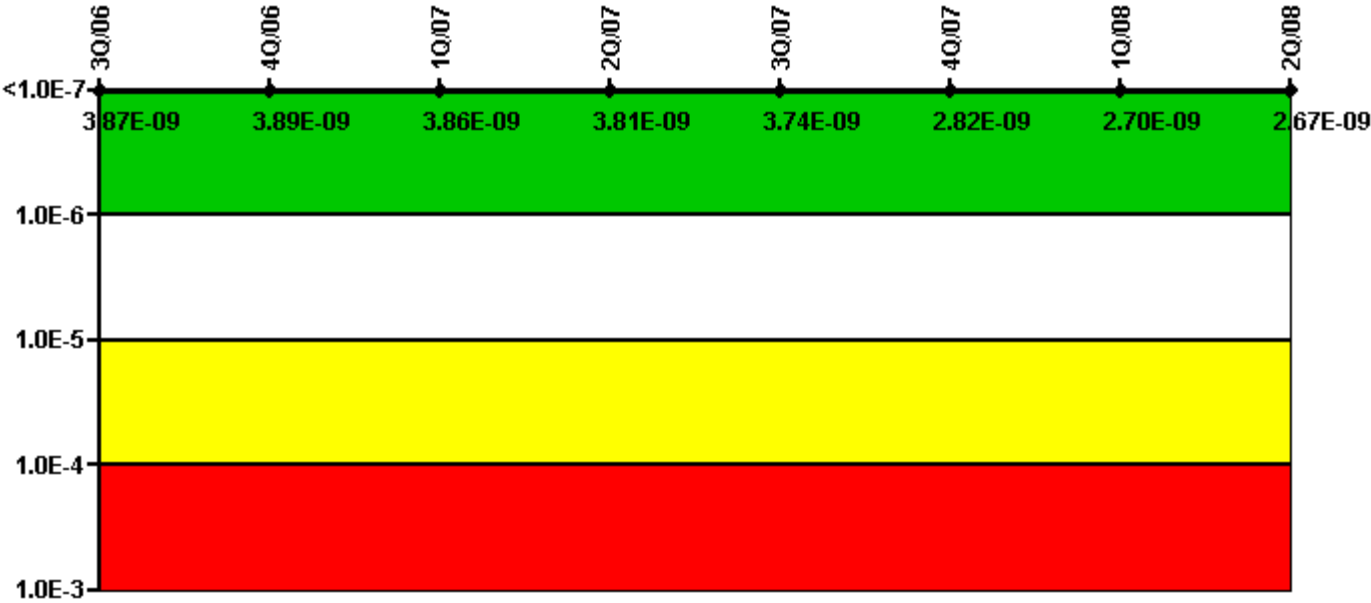
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	5.70E-07	6.30E-07	6.40E-07	7.60E-07	7.90E-07	4.90E-07	5.30E-07	6.70E-07
URI (ΔCDF)	-3.70E-06	-3.70E-06	-3.70E-06	-3.70E-06	-3.60E-06	-3.80E-06	-3.90E-06	-3.90E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.13E-06	-3.07E-06	-3.06E-06	-2.94E-06	-2.81E-06	-3.31E-06	-3.37E-06	-3.23E-06

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



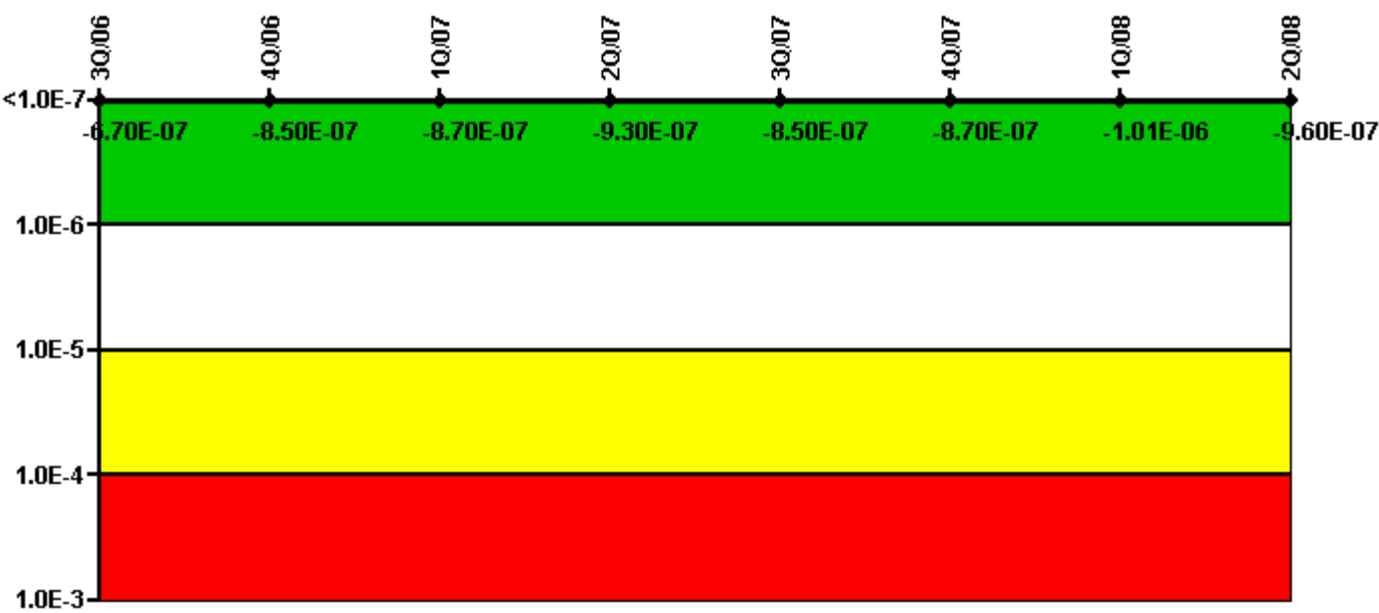
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	2.70E-10	2.90E-10	2.60E-10	2.10E-10	1.40E-10	1.70E-11	-1.00E-10	-1.30E-10
URI (ΔCDF)	3.60E-09	3.60E-09	3.60E-09	3.60E-09	3.60E-09	2.80E-09	2.80E-09	2.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.87E-09	3.89E-09	3.86E-09	3.81E-09	3.74E-09	2.82E-09	2.70E-09	2.67E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



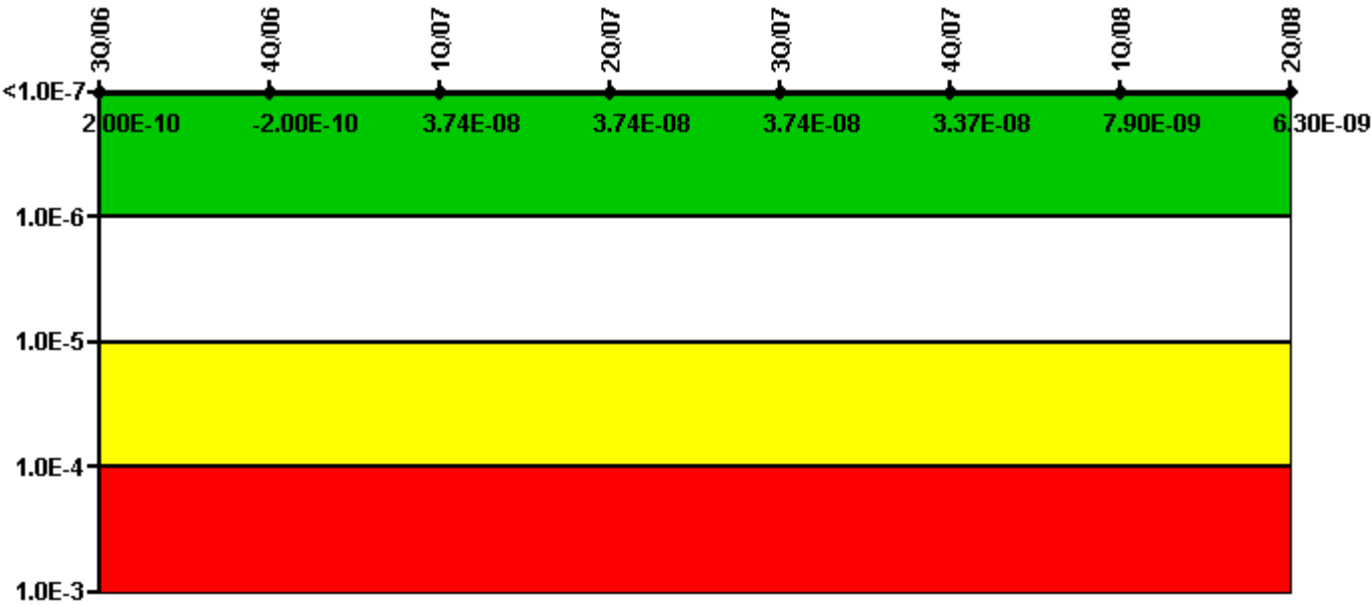
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	4.30E-07	3.50E-07	3.30E-07	2.70E-07	2.50E-07	2.30E-07	1.90E-07	2.40E-07
URI (ΔCDF)	-1.10E-06	-1.20E-06	-1.20E-06	-1.20E-06	-1.10E-06	-1.10E-06	-1.20E-06	-1.20E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.70E-07	-8.50E-07	-8.70E-07	-9.30E-07	-8.50E-07	-8.70E-07	-1.01E-06	-9.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System

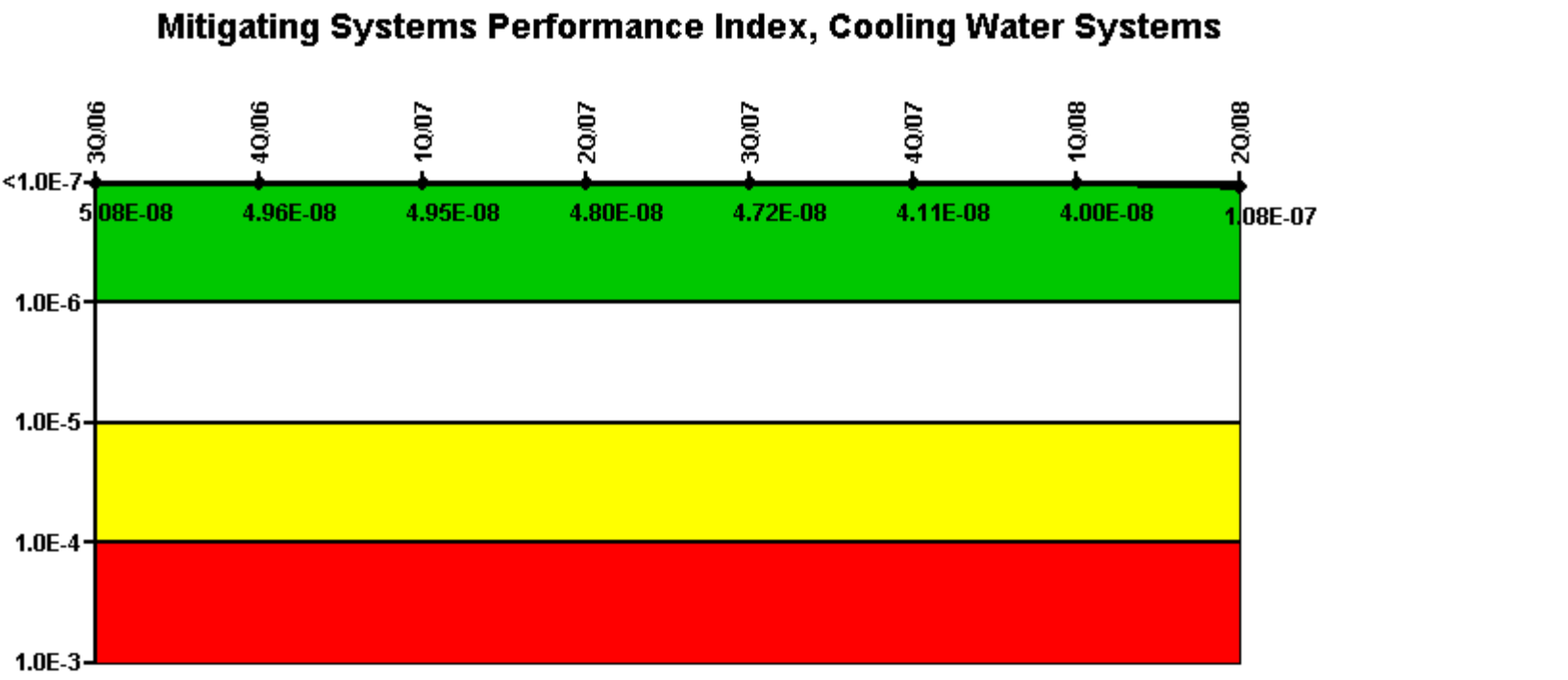


Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	-5.60E-09	-5.60E-09	-5.60E-09	-5.60E-09	-5.60E-09	-1.30E-09	-1.20E-09	-1.00E-09
URI (ΔCDF)	5.80E-09	5.40E-09	4.30E-08	4.30E-08	4.30E-08	3.50E-08	9.10E-09	7.30E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.00E-10	-2.00E-10	3.74E-08	3.74E-08	3.74E-08	3.37E-08	7.90E-09	6.30E-09

Licensee Comments: none



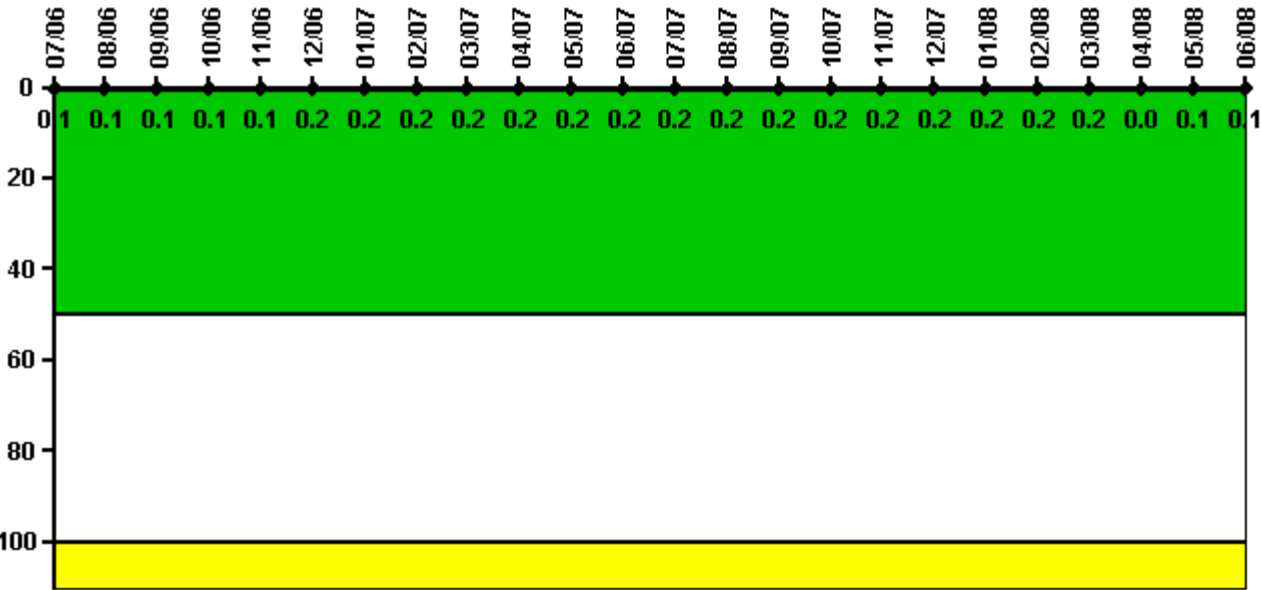
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	2.80E-09	2.60E-09	2.50E-09	-1.00E-08	-9.80E-09	-7.90E-09	-6.00E-09	3.70E-08
URI (ΔCDF)	4.80E-08	4.70E-08	4.70E-08	5.80E-08	5.70E-08	4.90E-08	4.60E-08	7.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.08E-08	4.96E-08	4.95E-08	4.80E-08	4.72E-08	4.11E-08	4.00E-08	1.08E-07

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

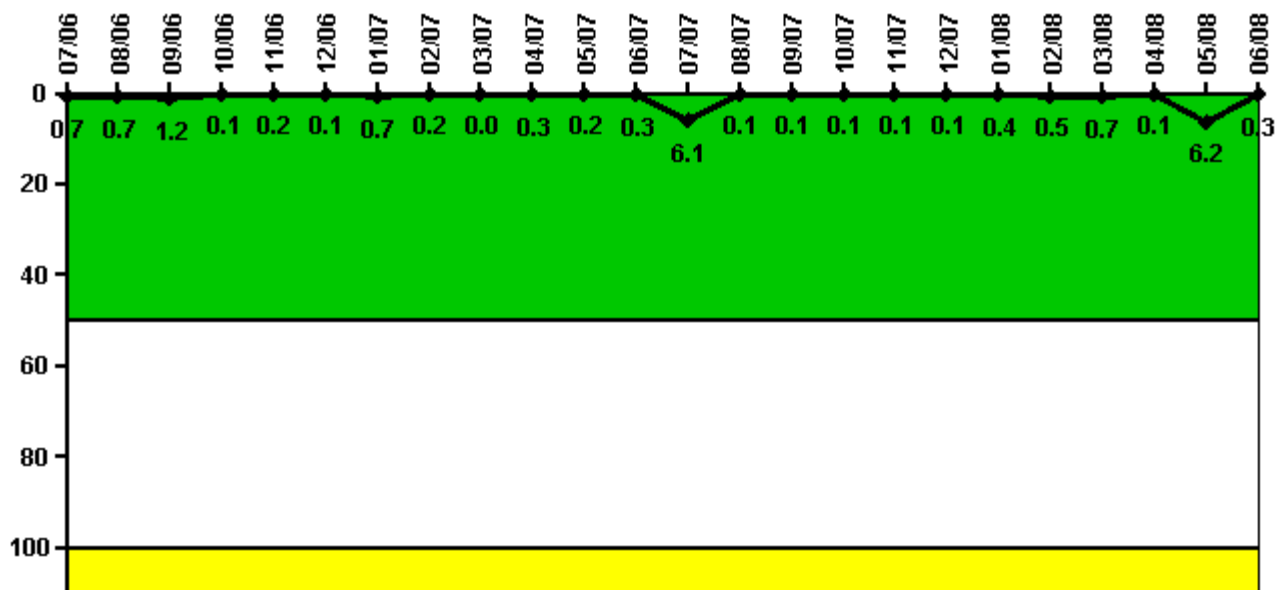
Notes

Reactor Coolant System Activity	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum activity	0.001360	0.001380	0.001310	0.001410	0.001480	0.001600	0.001540	0.001580	0.001650	0.001810	0.001740	0.001660
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Reactor Coolant System Activity	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum activity	0.001840	0.001850	0.001930	0.002050	0.002020	0.002040	0.002140	0.002070	0.002220	0.000449	0.000501	0.000717
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



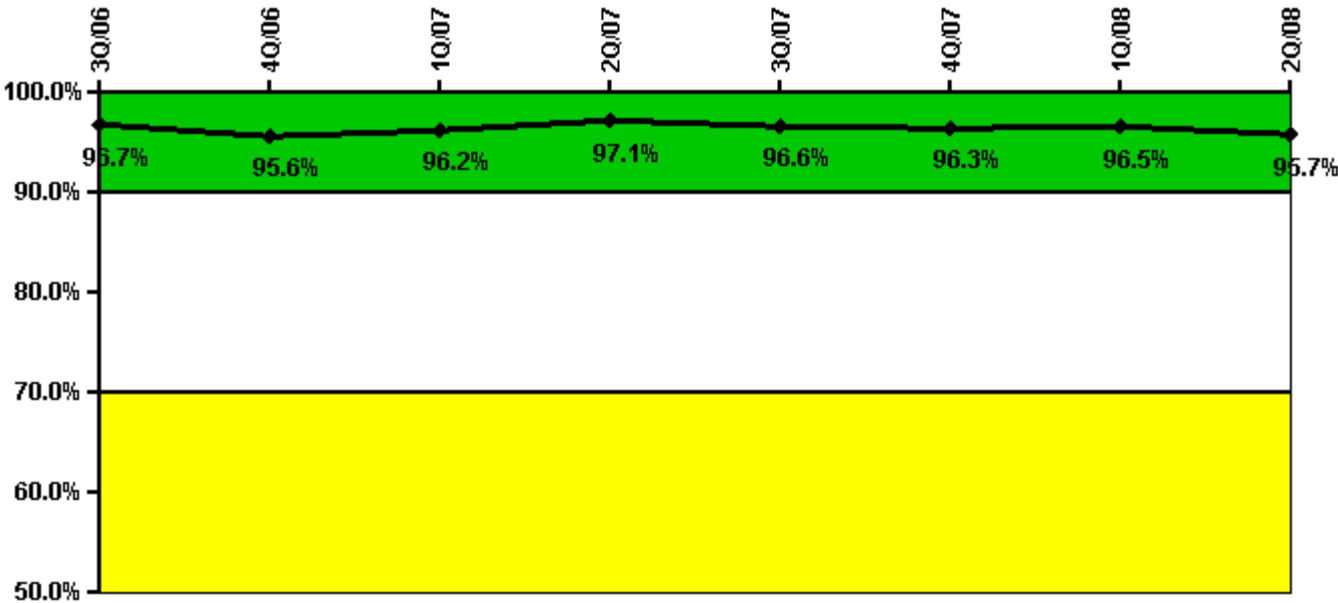
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum leakage	0.069	0.069	0.120	0.011	0.020	0.010	0.070	0.020	0	0.030	0.020	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	0.7	0.7	1.2	0.1	0.2	0.1	0.7	0.2	0	0.3	0.2	0.3
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	0.610	0.010	0.010	0.010	0.010	0.010	0.040	0.050	0.070	0.010	0.620	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	6.1	0.1	0.1	0.1	0.1	0.1	0.4	0.5	0.7	0.1	6.2	0.3

Licensee Comments: none

Drill/Exercise Performance



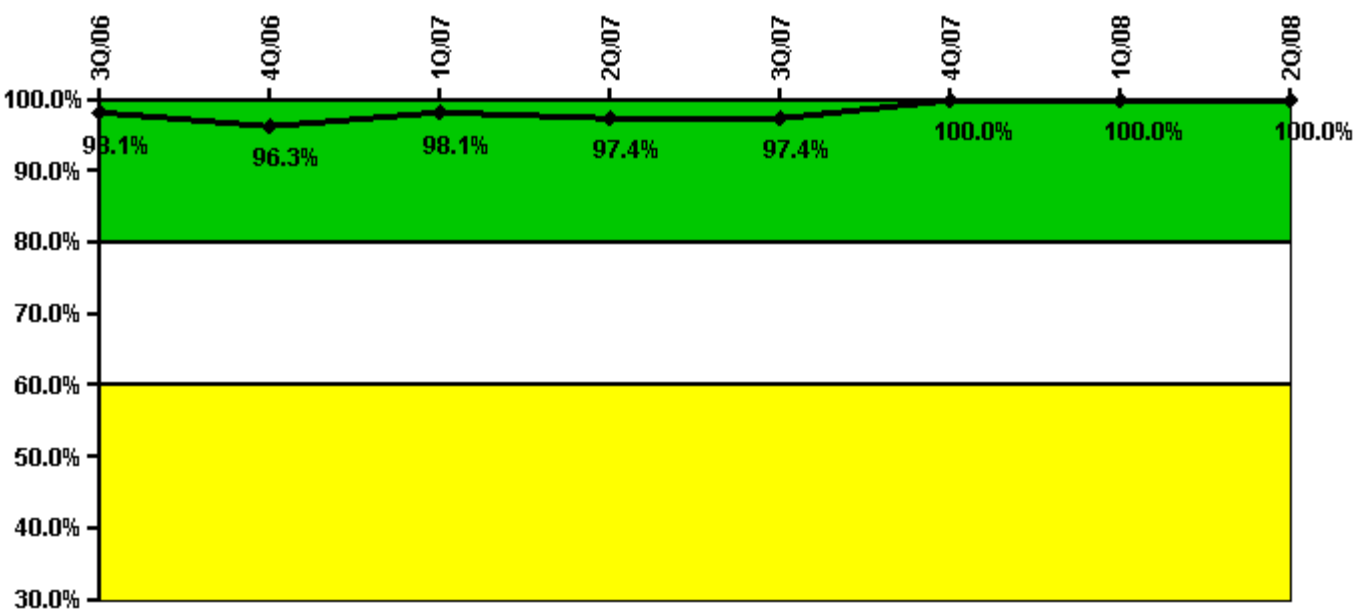
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful opportunities	73.0	11.0	19.0	57.0	72.0	66.0	28.0	50.0
Total opportunities	73.0	14.0	20.0	58.0	75.0	71.0	28.0	54.0
Indicator value	96.7%	95.6%	96.2%	97.1%	96.6%	96.3%	96.5%	95.7%

Licensee Comments: none

ERO Drill Participation



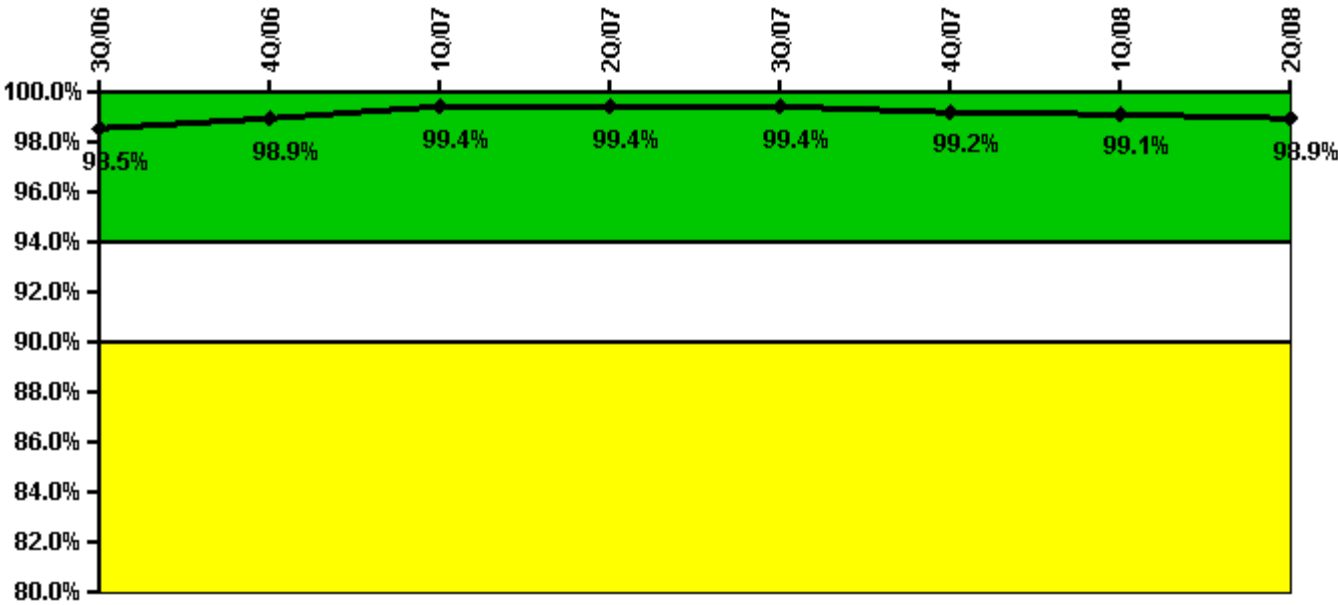
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Participating Key personnel	104.0	104.0	106.0	114.0	113.0	111.0	114.0	99.0
Total Key personnel	106.0	108.0	108.0	117.0	116.0	111.0	114.0	99.0
Indicator value	98.1%	96.3%	98.1%	97.4%	97.4%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



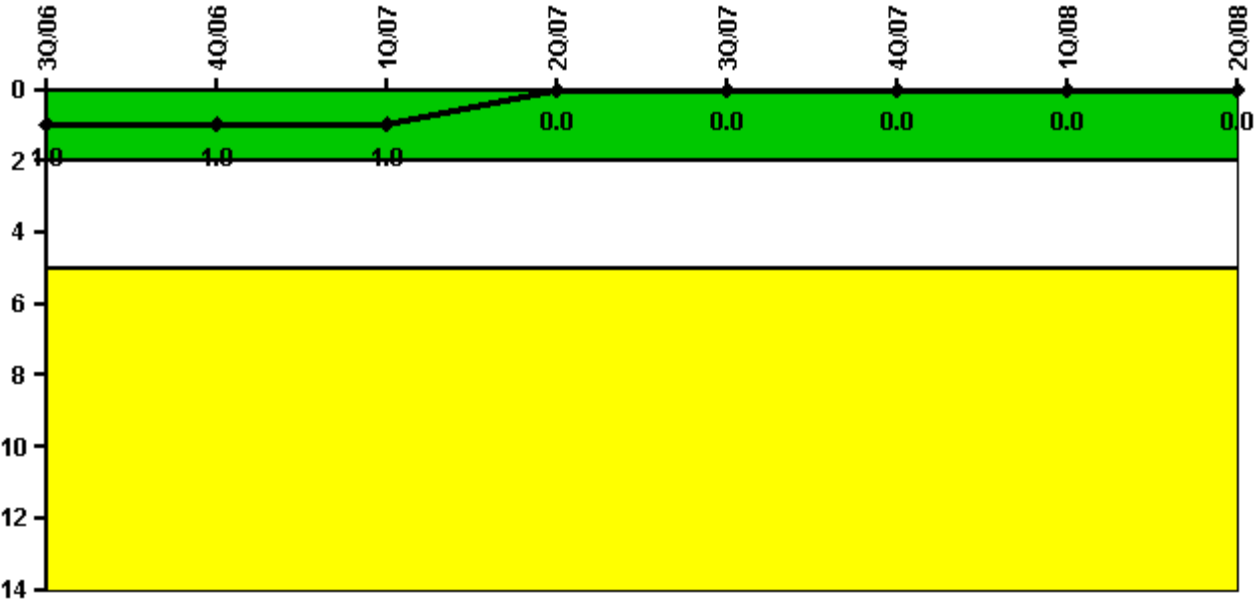
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful siren-tests	882	885	728	965	536	618	786	627
Total sirens-tests	888	888	732	974	540	625	793	637
Indicator value	98.5%	98.9%	99.4%	99.4%	99.4%	99.2%	99.1%	98.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

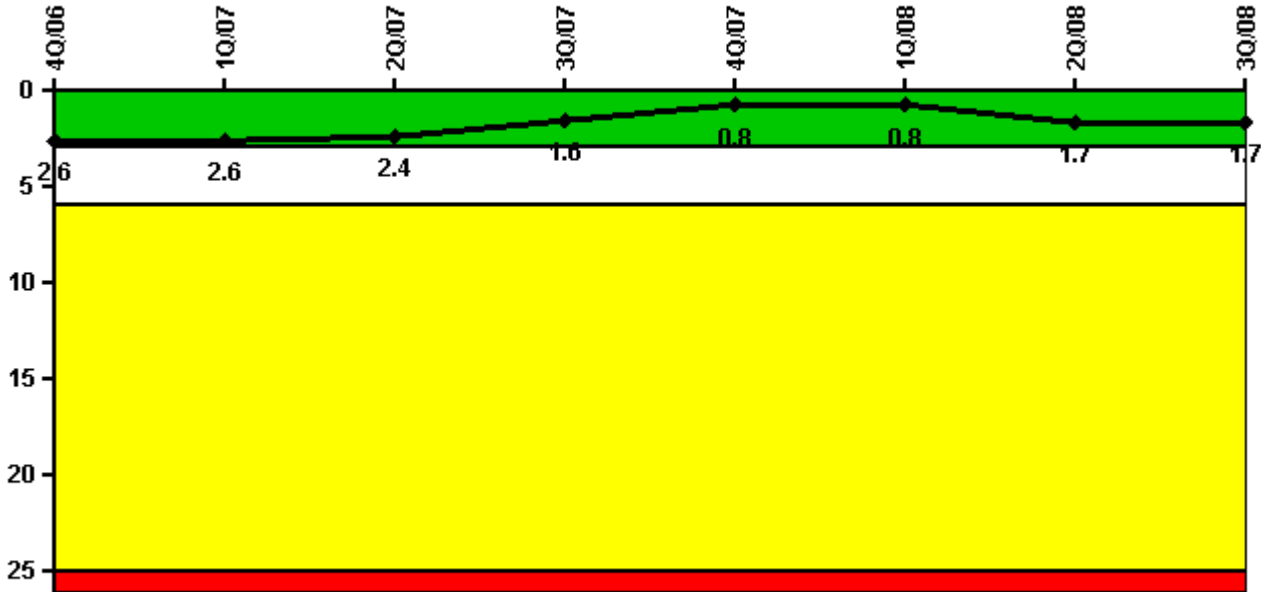
Last Modified: August 4, 2008

Indian Point 2

3Q/2008 Performance Indicators

Licensee's General Comments: Some SI and RHR unavailability hours for previous reporting periods were revised to include all applicable hours after a verification review determined some unavailability hours for SI and RHR had not been included based on component tag out times and actual component availability. Total unavailable hours added covering the period 3Q06-2Q08 for the follow components: Unit 2: 21 SI=1.08, 22 SI=1.78, 23 SI=6.57 21 RHR=1.18, 22 RHR=3.5

Unplanned Scrams per 7000 Critical Hrs



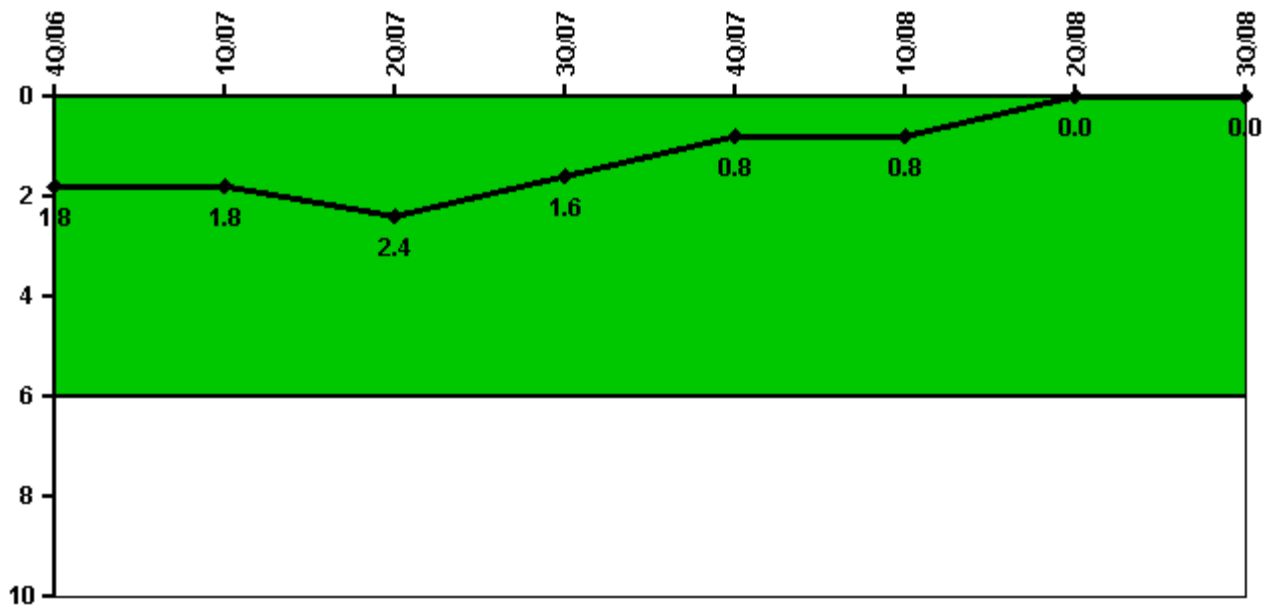
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned scrams	1.0	1.0	0	0	0	1.0	1.0	0
Critical hours	2186.0	2144.9	2184.0	2208.0	2209.0	1989.3	1724.9	2208.0
Indicator value	2.6	2.6	2.4	1.6	0.8	0.8	1.7	1.7

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



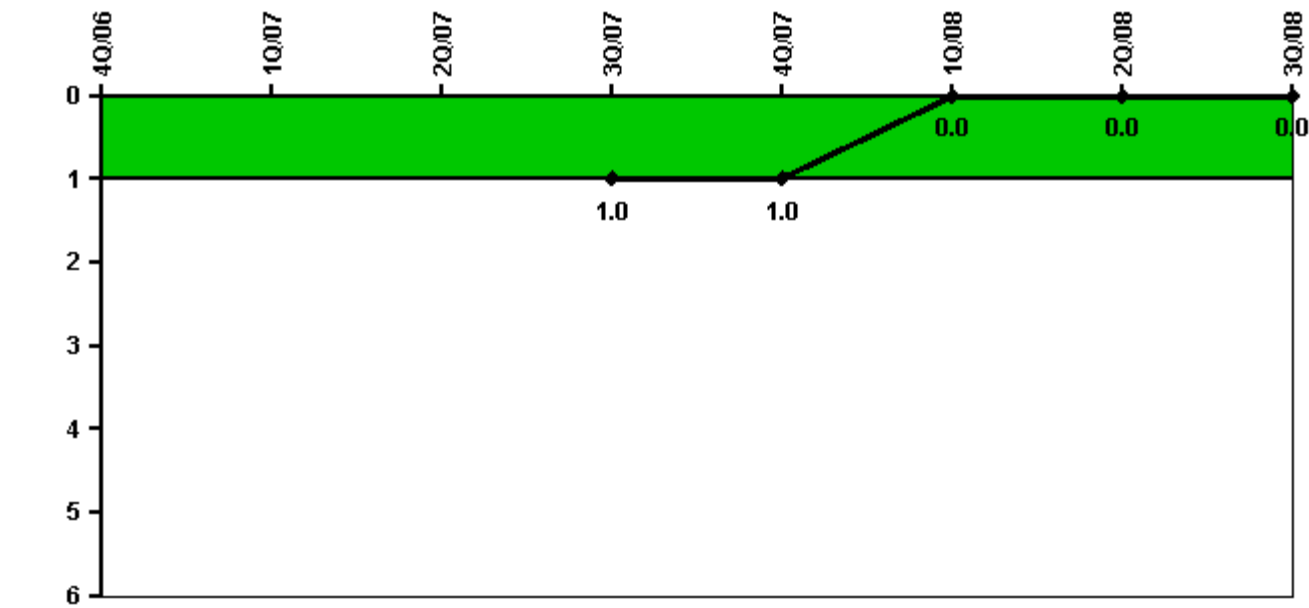
Thresholds: White > 6.0

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	0	1.0	0	0	0	0	0
Critical hours	2186.0	2144.9	2184.0	2208.0	2209.0	1989.3	1724.9	2208.0
Indicator value	1.8	1.8	2.4	1.6	0.8	0.8	0	0

Licensee Comments: none

Unplanned Scrams with Complications



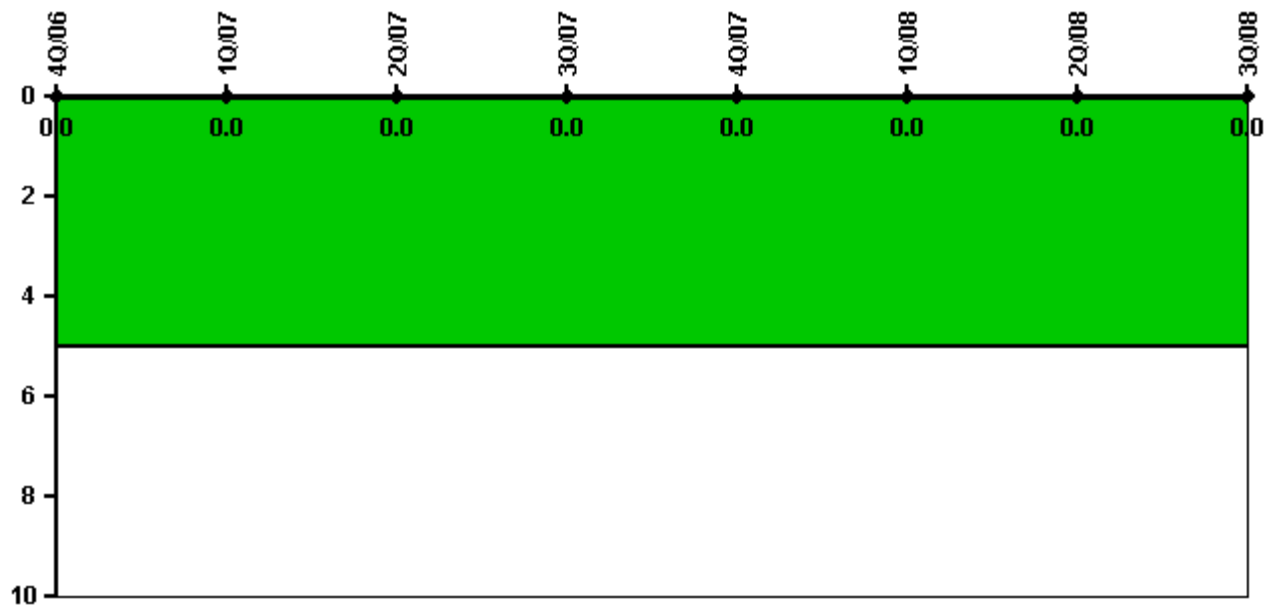
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

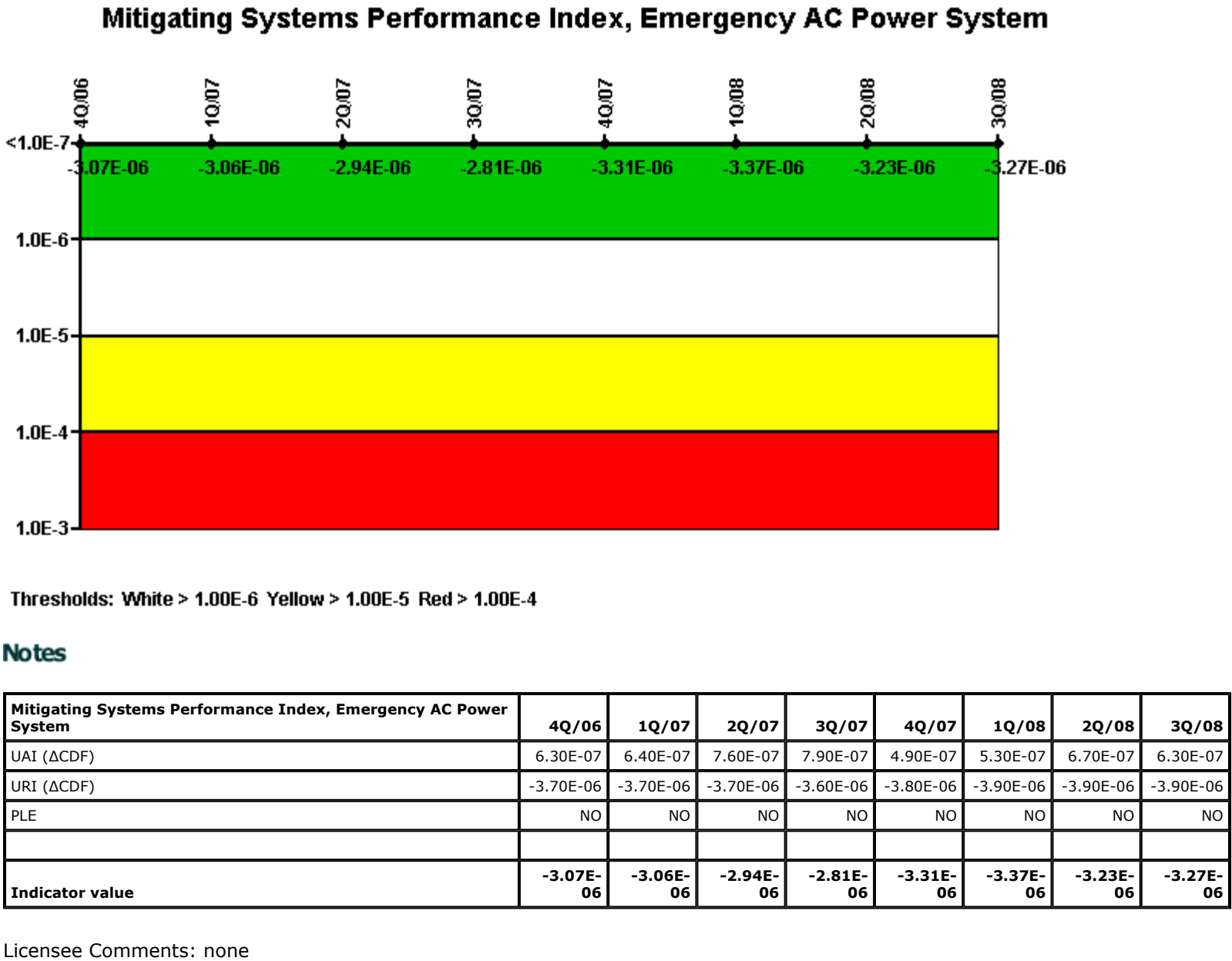


Thresholds: White > 5.0

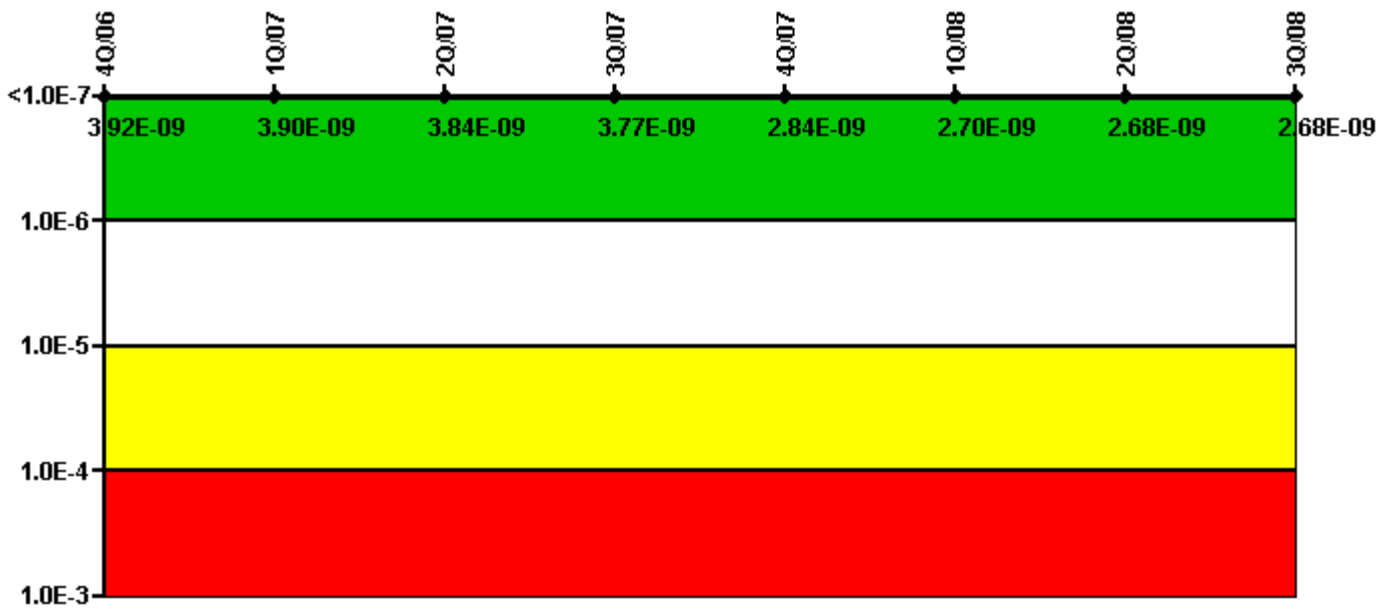
Notes

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

Licensee Comments: none



Mitigating Systems Performance Index, High Pressure Injection System



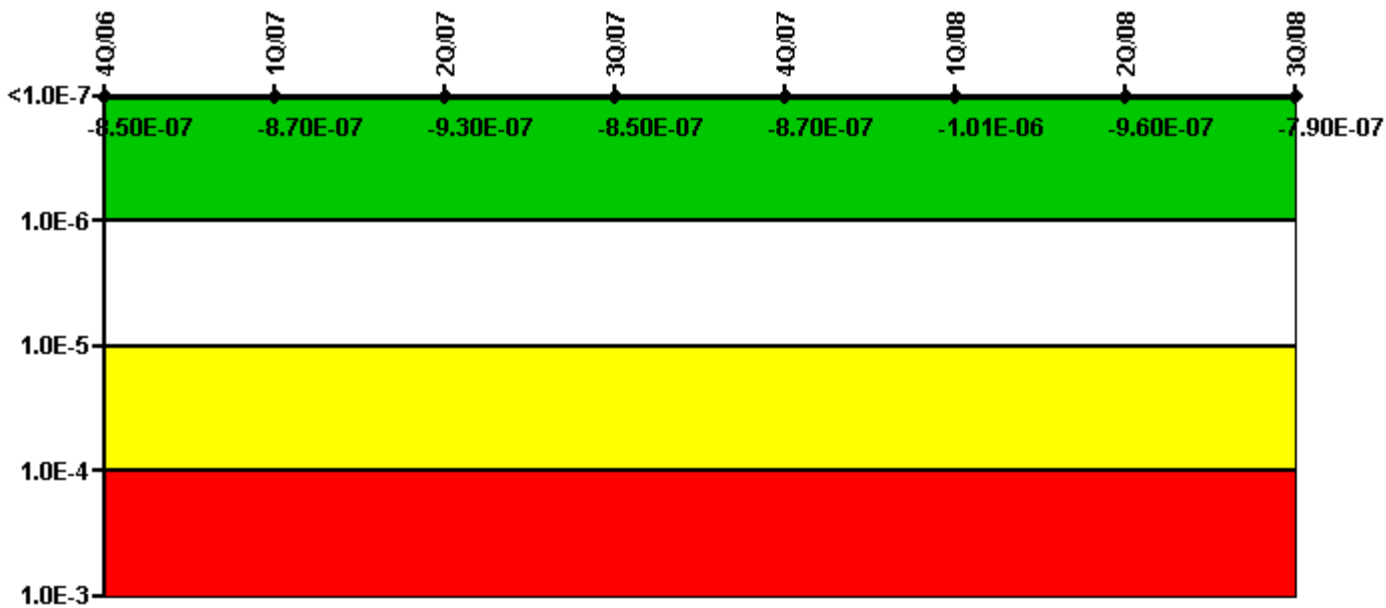
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	3.20E-10	3.00E-10	2.40E-10	1.70E-10	4.40E-11	-9.80E-11	-1.20E-10	-1.20E-10
URI (ΔCDF)	3.60E-09	3.60E-09	3.60E-09	3.60E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.92E-09	3.90E-09	3.84E-09	3.77E-09	2.84E-09	2.70E-09	2.68E-09	2.68E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



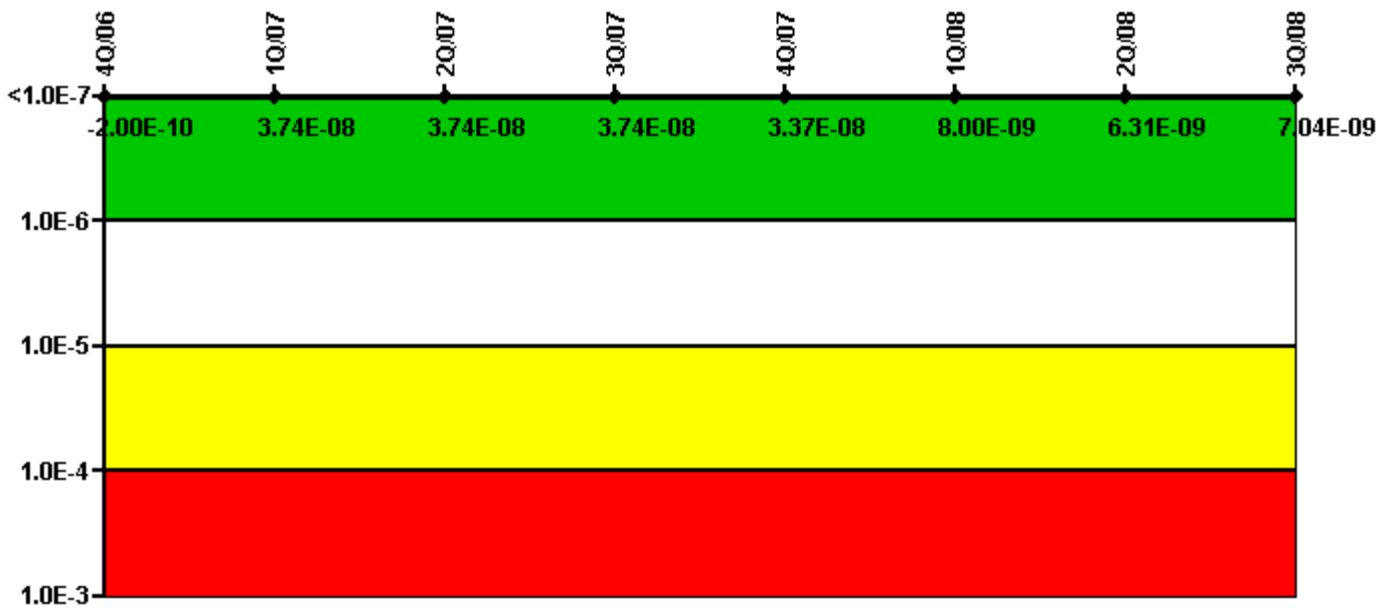
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	3.50E-07	3.30E-07	2.70E-07	2.50E-07	2.30E-07	1.90E-07	2.40E-07	4.10E-07
URI (ΔCDF)	-1.20E-06	-1.20E-06	-1.20E-06	-1.10E-06	-1.10E-06	-1.20E-06	-1.20E-06	-1.20E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.50E-07	-8.70E-07	-9.30E-07	-8.50E-07	-8.70E-07	-1.01E-06	-9.60E-07	-7.90E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



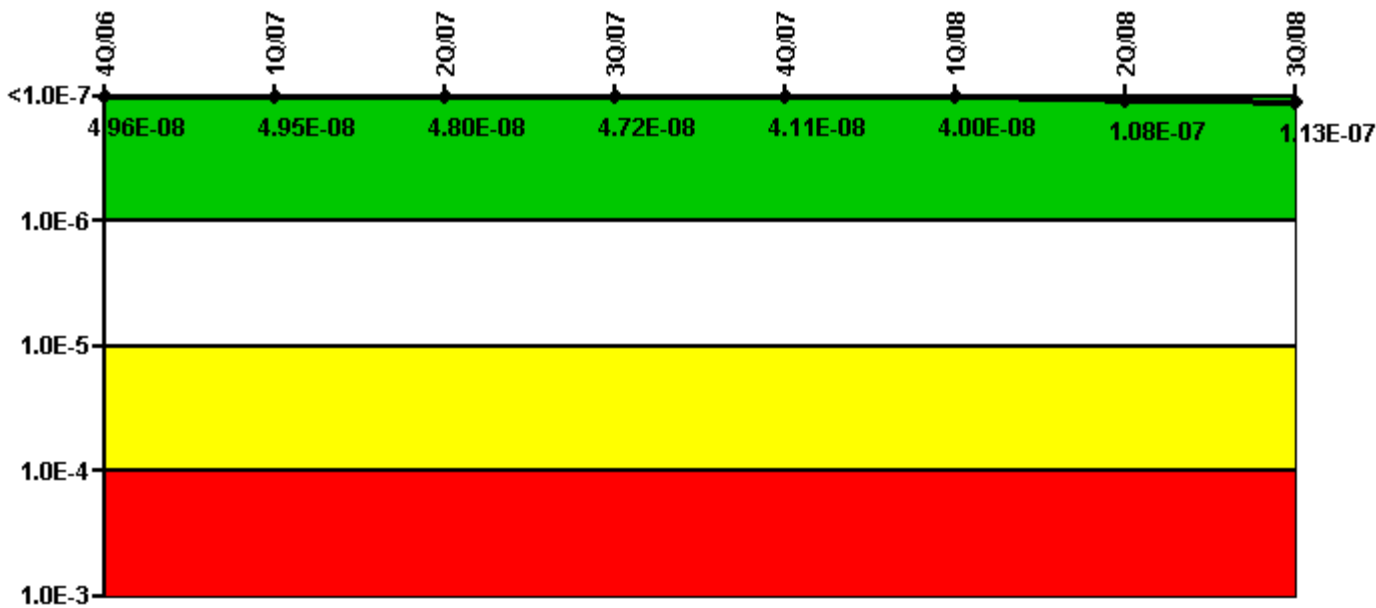
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	-5.60E-09	-5.60E-09	-5.60E-09	-5.60E-09	-1.30E-09	-1.10E-09	-9.90E-10	-9.60E-10
URI (ΔCDF)	5.40E-09	4.30E-08	4.30E-08	4.30E-08	3.50E-08	9.10E-09	7.30E-09	8.00E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-10	3.74E-08	3.74E-08	3.74E-08	3.37E-08	8.00E-09	6.31E-09	7.04E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



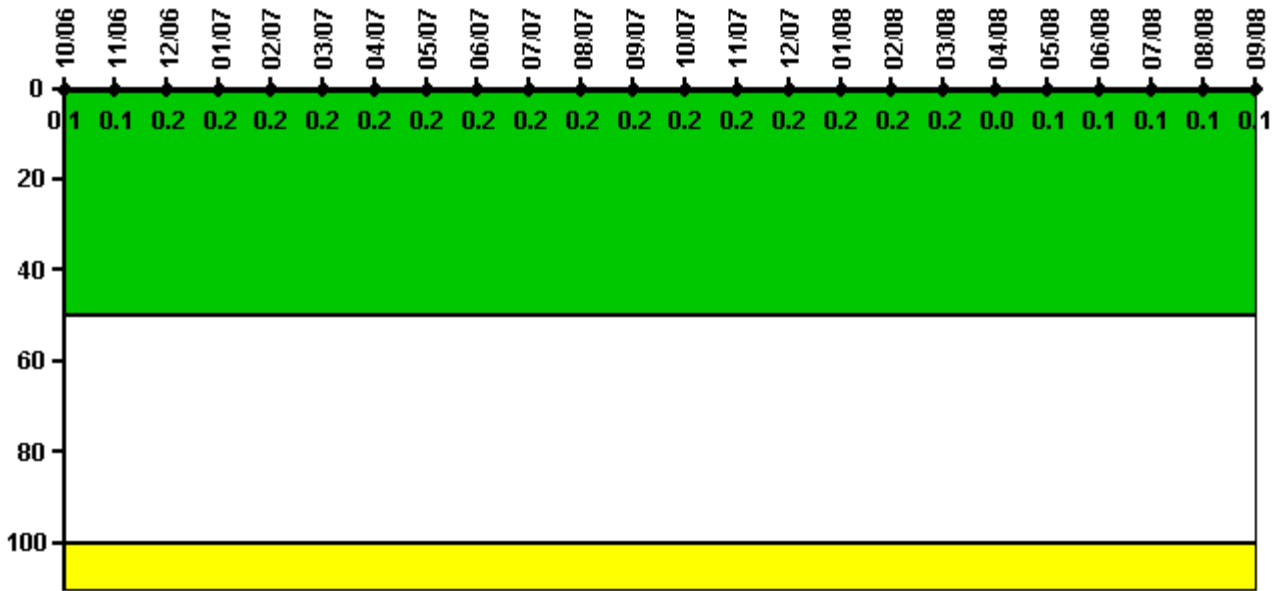
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	2.60E-09	2.50E-09	-1.00E-08	-9.80E-09	-7.90E-09	-6.00E-09	3.70E-08	4.20E-08
URI (ΔCDF)	4.70E-08	4.70E-08	5.80E-08	5.70E-08	4.90E-08	4.60E-08	7.10E-08	7.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.96E-08	4.95E-08	4.80E-08	4.72E-08	4.11E-08	4.00E-08	1.08E-07	1.13E-07

Licensee Comments: none

Reactor Coolant System Activity



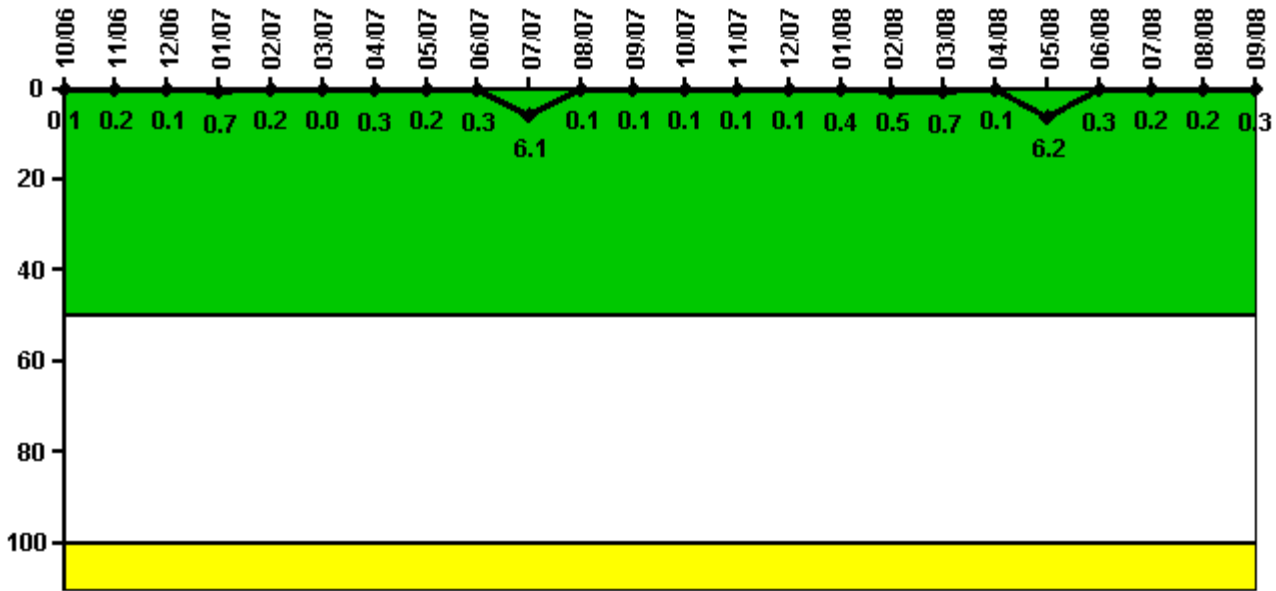
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum activity	0.001410	0.001480	0.001600	0.001540	0.001580	0.001650	0.001810	0.001740	0.001660	0.001840	0.001850	0.001930
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Reactor Coolant System Activity	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum activity	0.002050	0.002020	0.002040	0.002140	0.002070	0.002220	0.000449	0.000501	0.000717	0.000595	0.000579	0.000614
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0.2	0.2	0.2	0	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



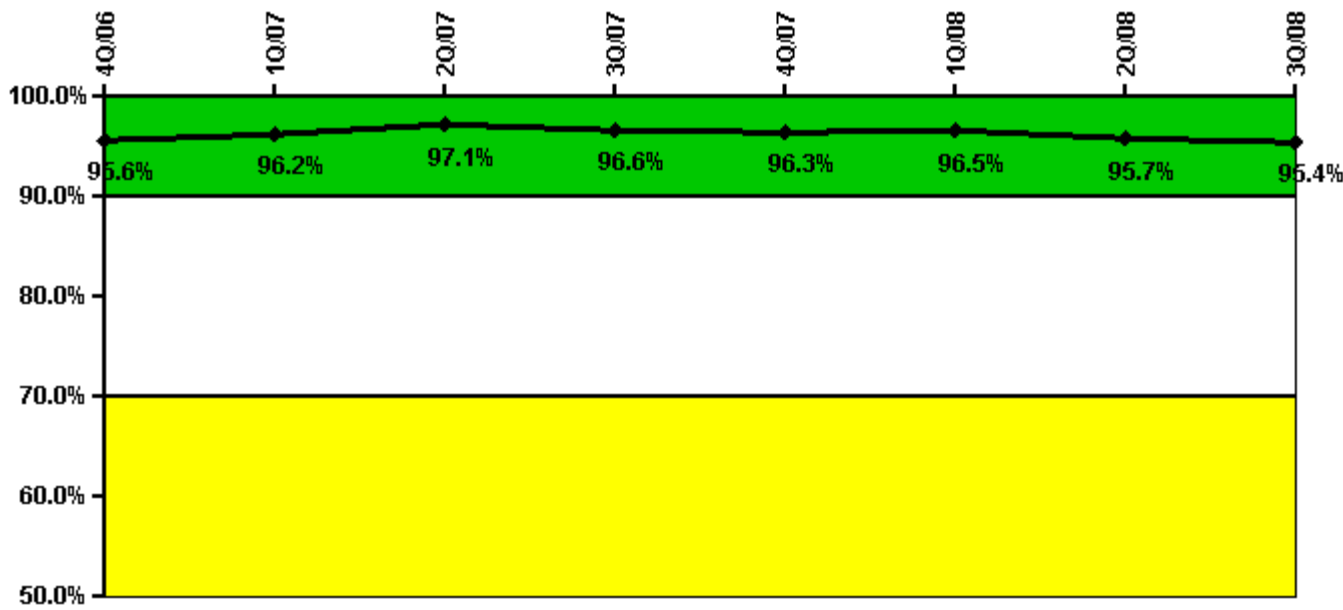
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum leakage	0.011	0.020	0.010	0.070	0.020	0	0.030	0.020	0.030	0.610	0.010	0.010
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	0.2	0.1	0.7	0.2	0	0.3	0.2	0.3	6.1	0.1	0.1
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	0.010	0.010	0.010	0.040	0.050	0.070	0.010	0.620	0.030	0.020	0.020	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	0.1	0.1	0.1	0.4	0.5	0.7	0.1	6.2	0.3	0.2	0.2	0.3

Licensee Comments: none

Drill/Exercise Performance



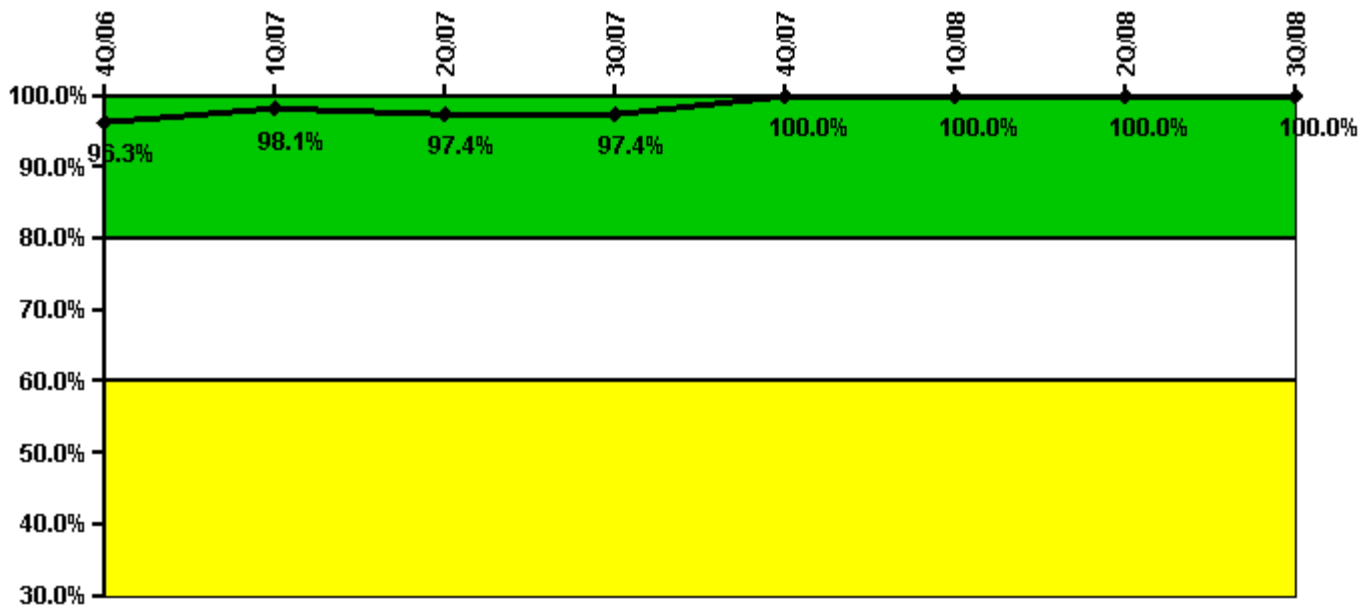
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful opportunities	11.0	19.0	57.0	72.0	66.0	28.0	50.0	90.0
Total opportunities	14.0	20.0	58.0	75.0	71.0	28.0	54.0	92.0
Indicator value	95.6%	96.2%	97.1%	96.6%	96.3%	96.5%	95.7%	95.4%

Licensee Comments: none

ERO Drill Participation



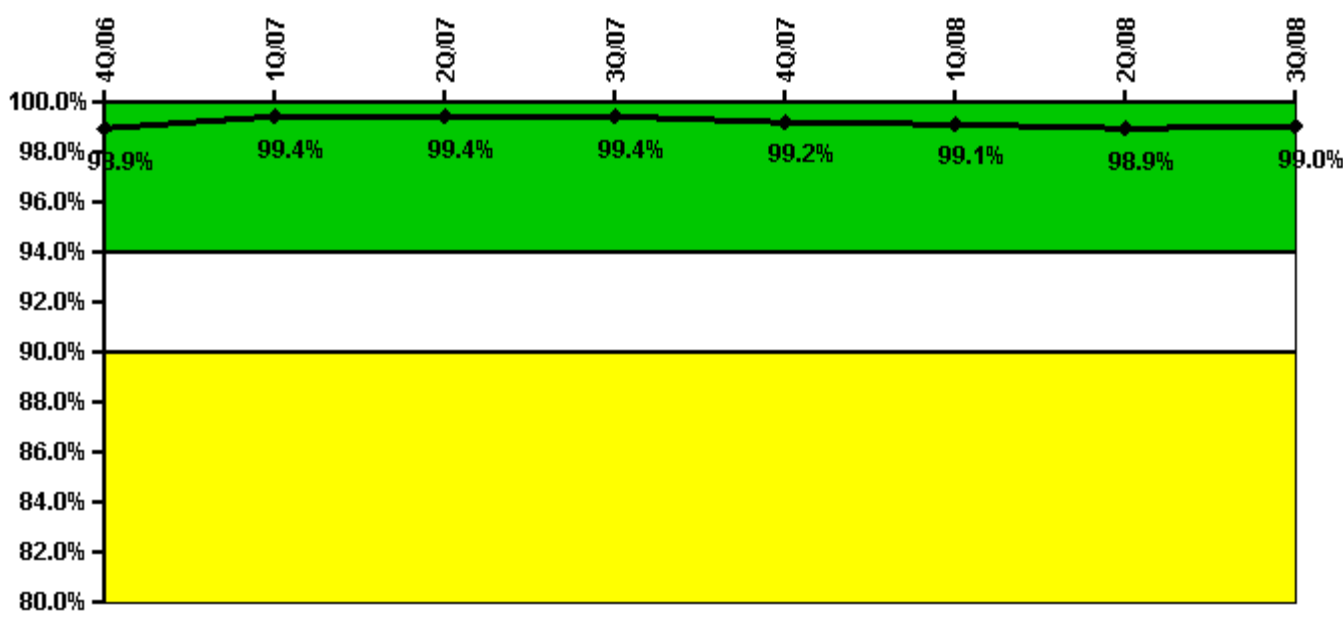
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Participating Key personnel	104.0	106.0	114.0	113.0	111.0	114.0	99.0	94.0
Total Key personnel	108.0	108.0	117.0	116.0	111.0	114.0	99.0	94.0
Indicator value	96.3%	98.1%	97.4%	97.4%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



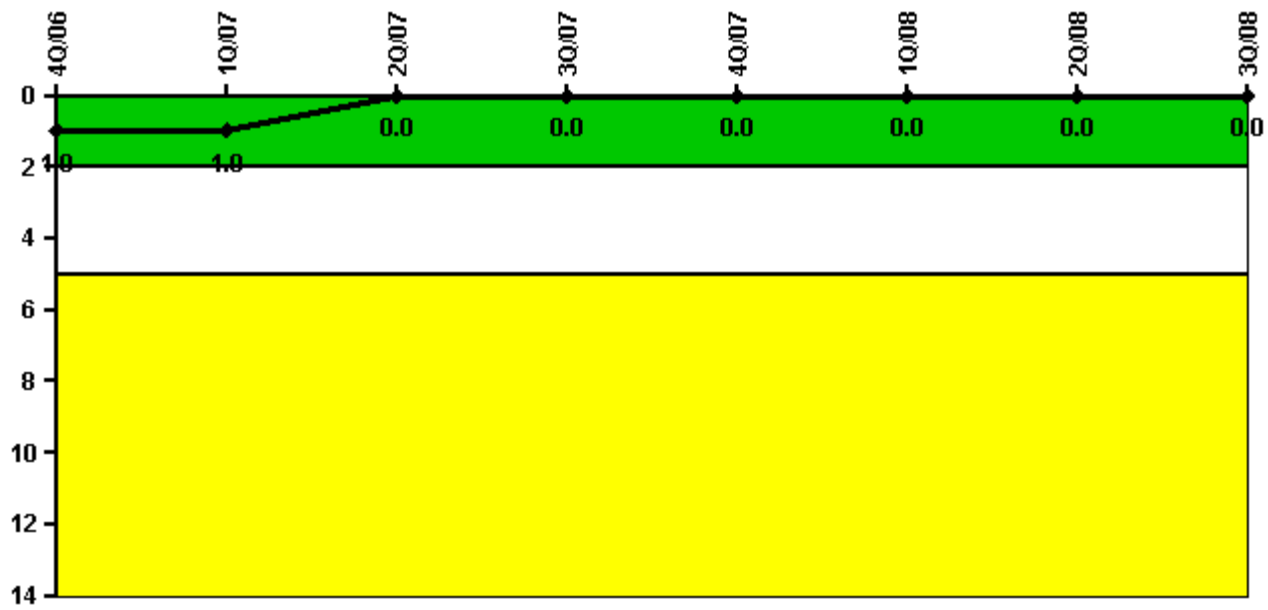
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful siren-tests	885	728	965	536	618	786	627	486
Total sirens-tests	888	732	974	540	625	793	637	488
Indicator value	98.9%	99.4%	99.4%	99.4%	99.2%	99.1%	98.9%	99.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



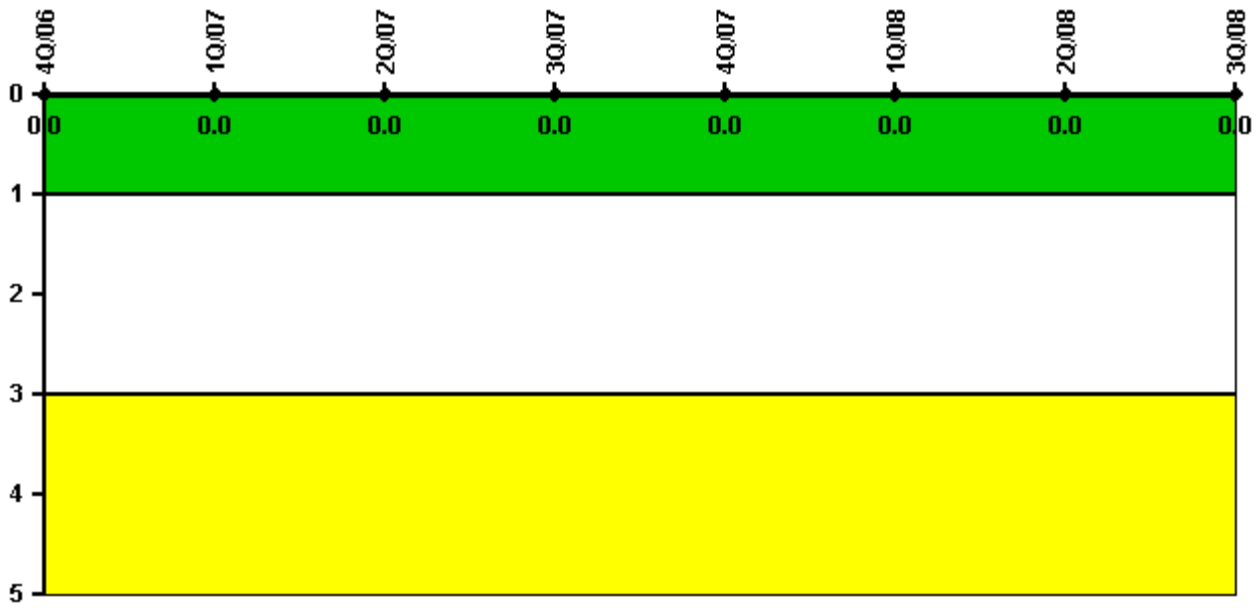
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/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

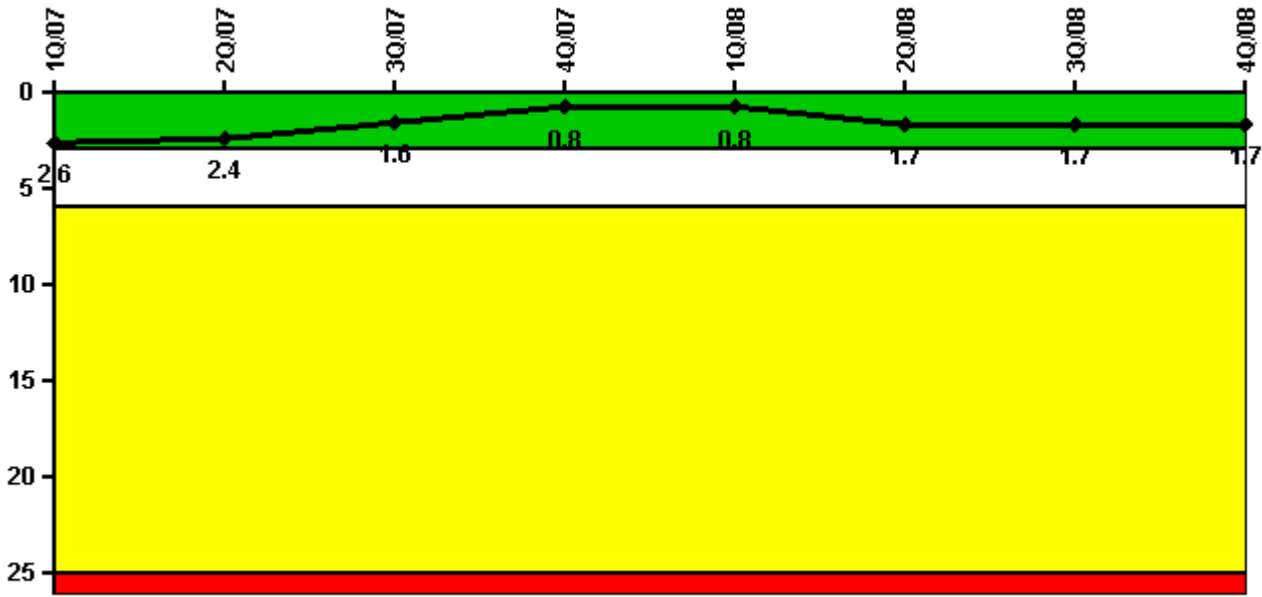
[Security](#) information not publicly available.

Indian Point 2

4Q/2008 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



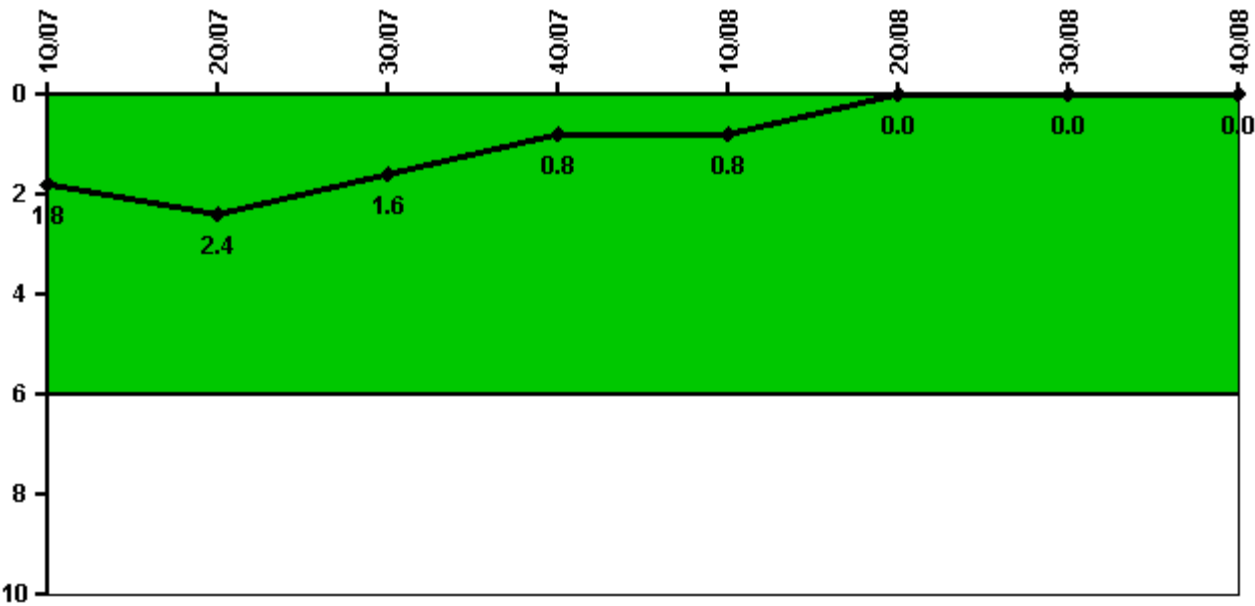
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned scrams	1.0	0	0	0	1.0	1.0	0	0
Critical hours	2144.9	2184.0	2208.0	2209.0	1989.3	1724.9	2208.0	2209.0
Indicator value	2.6	2.4	1.6	0.8	0.8	1.7	1.7	1.7

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



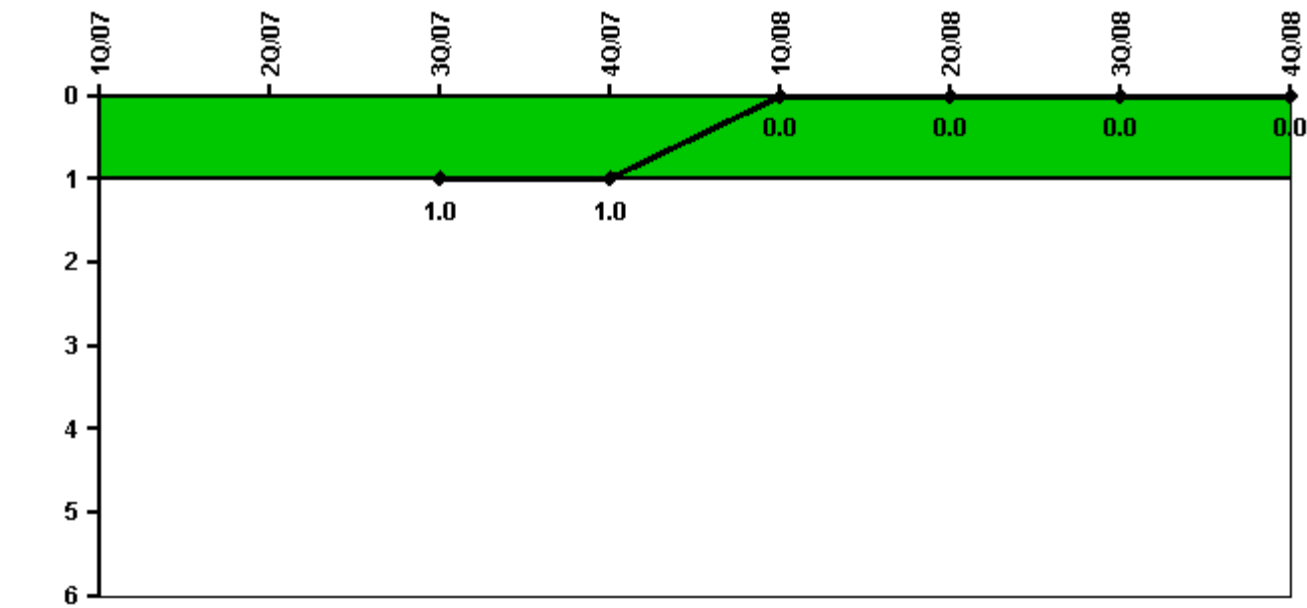
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2144.9	2184.0	2208.0	2209.0	1989.3	1724.9	2208.0	2209.0
Indicator value	1.8	2.4	1.6	0.8	0.8	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



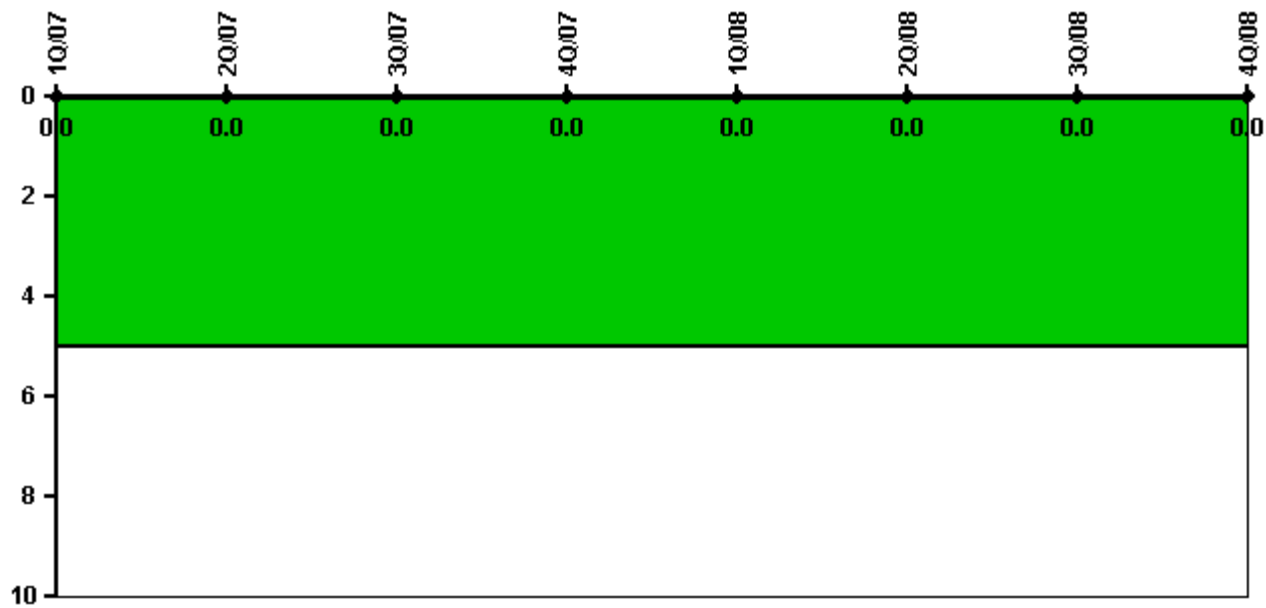
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

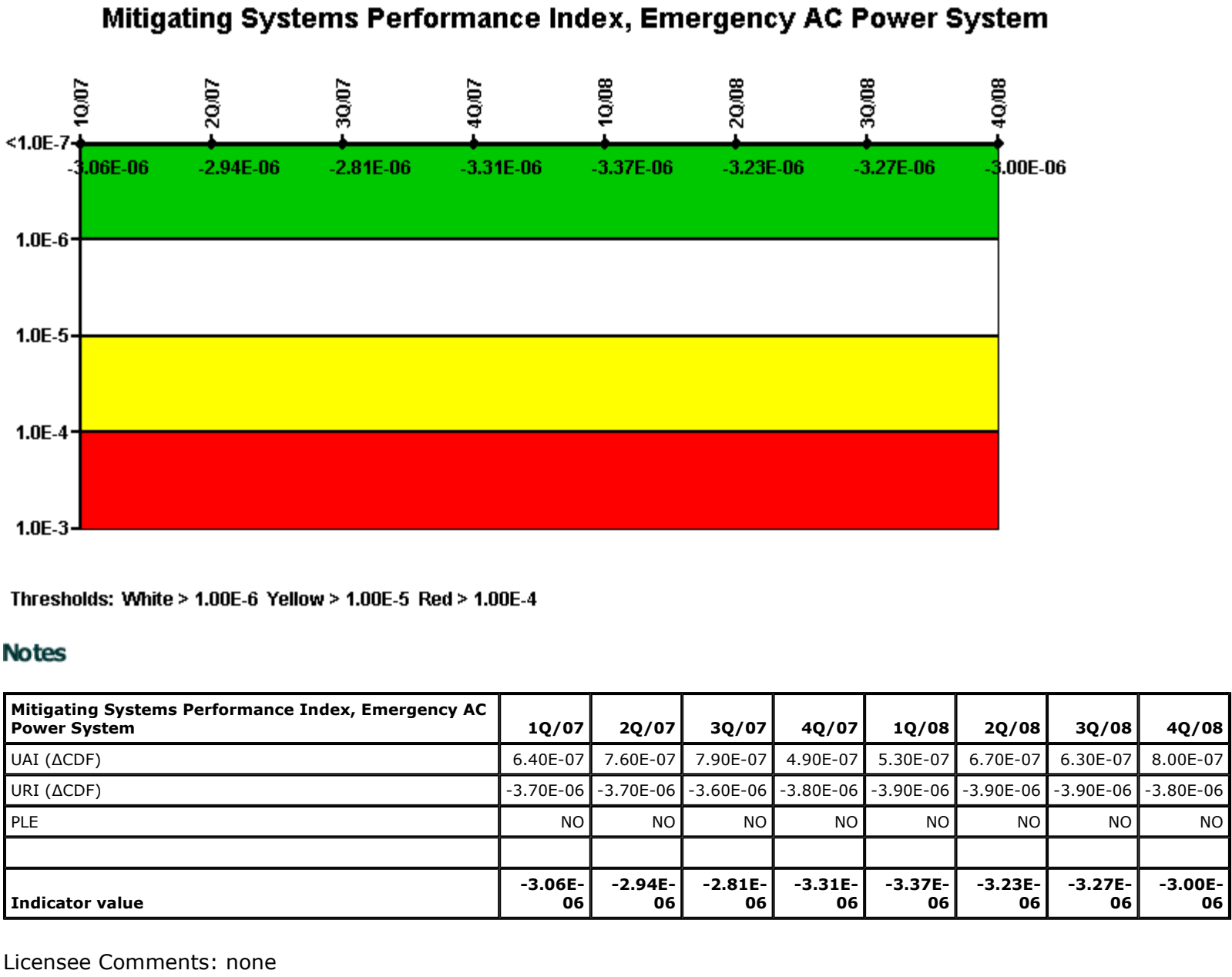


Thresholds: White > 5.0

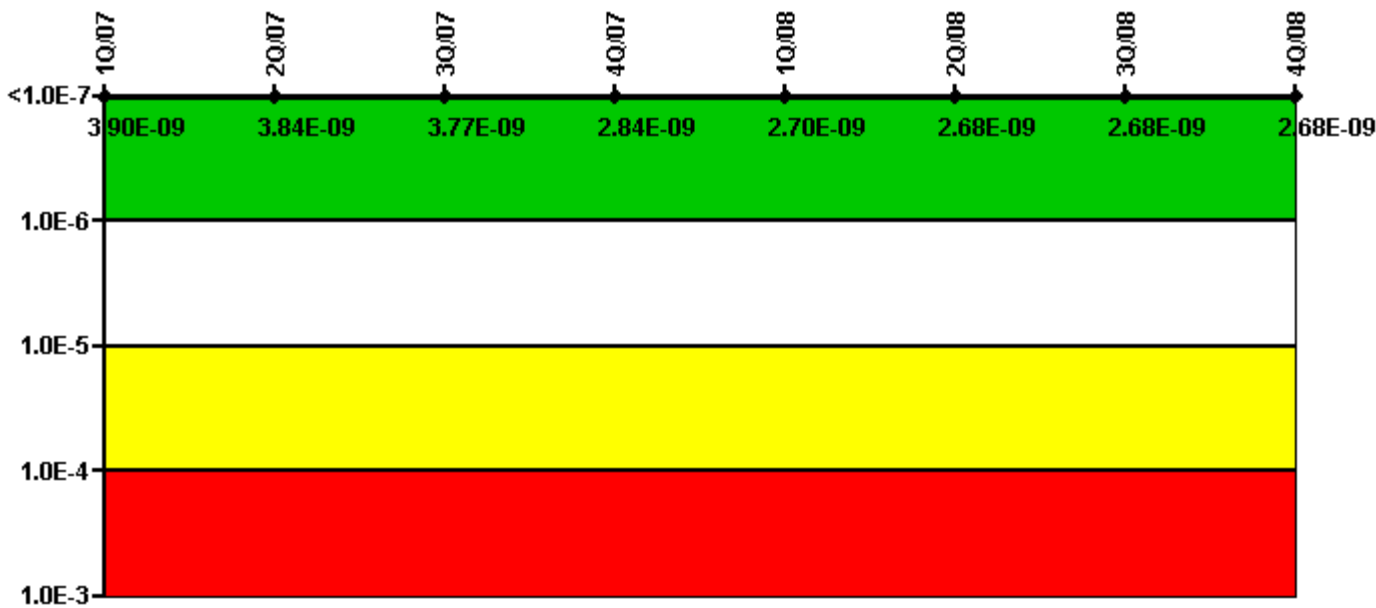
Notes

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

Licensee Comments: none



Mitigating Systems Performance Index, High Pressure Injection System



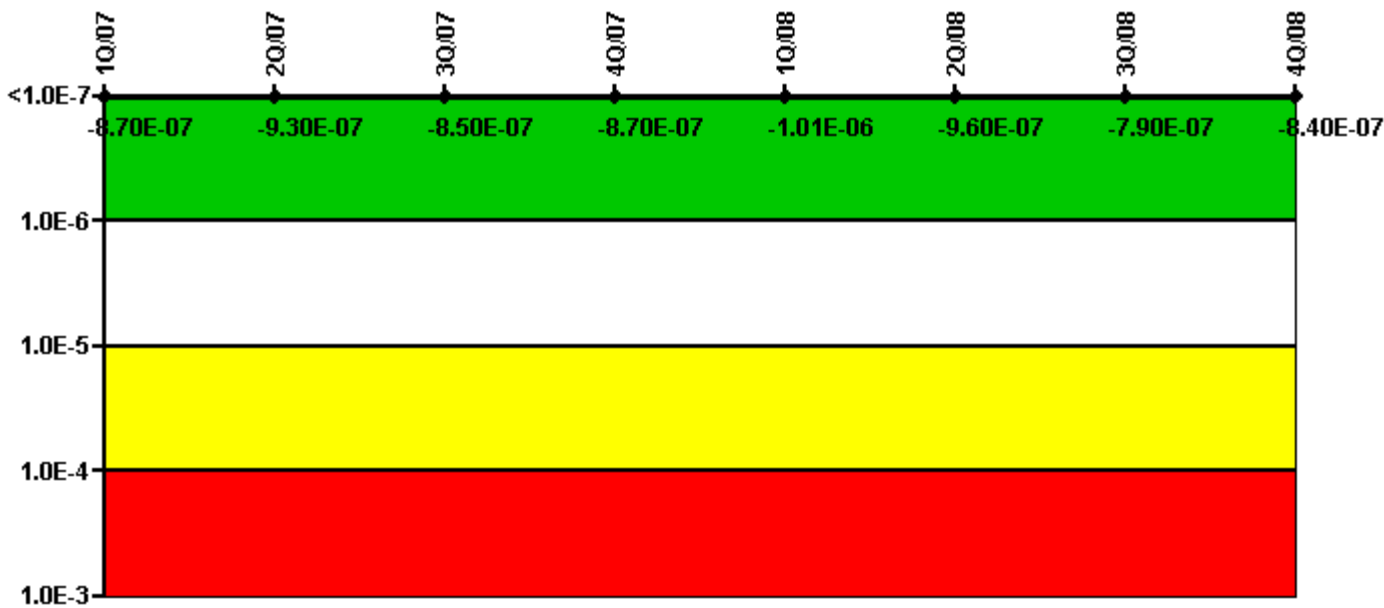
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	3.00E-10	2.40E-10	1.70E-10	4.40E-11	-9.80E-11	-1.20E-10	-1.20E-10	-1.20E-10
URI (ΔCDF)	3.60E-09	3.60E-09	3.60E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.90E-09	3.84E-09	3.77E-09	2.84E-09	2.70E-09	2.68E-09	2.68E-09	2.68E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



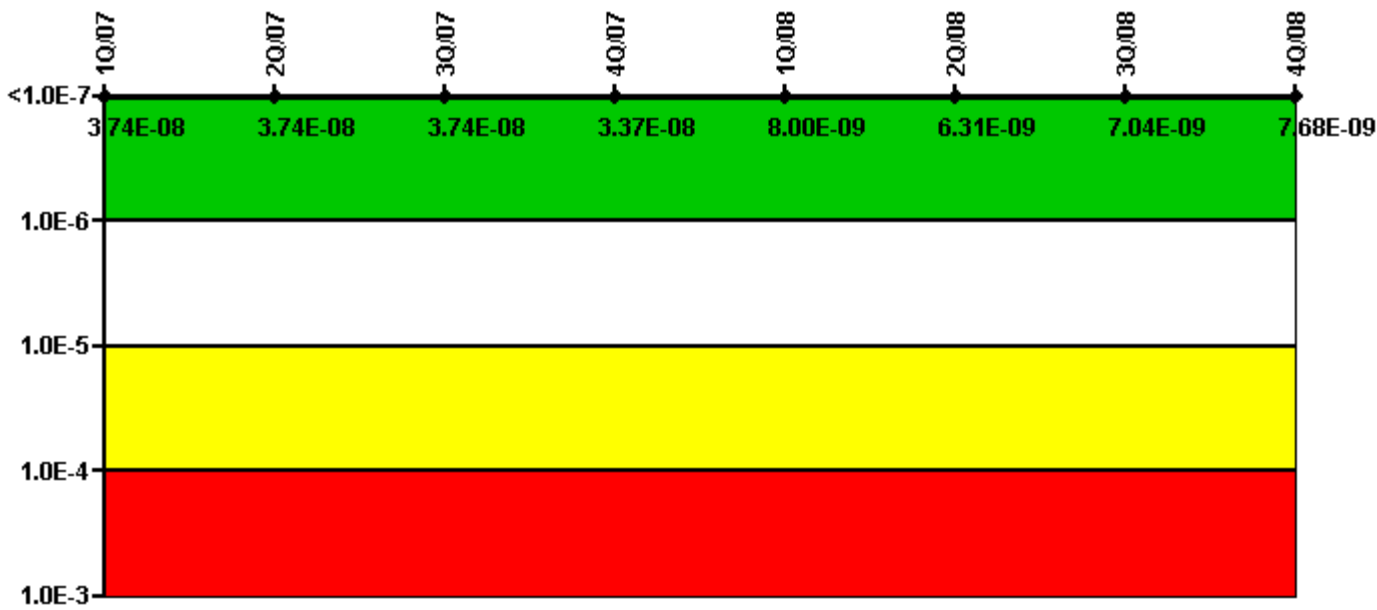
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	3.30E-07	2.70E-07	2.50E-07	2.30E-07	1.90E-07	2.40E-07	4.10E-07	3.60E-07
URI (ΔCDF)	-1.20E-06	-1.20E-06	-1.10E-06	-1.10E-06	-1.20E-06	-1.20E-06	-1.20E-06	-1.20E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.70E-07	-9.30E-07	-8.50E-07	-8.70E-07	-1.01E-06	-9.60E-07	-7.90E-07	-8.40E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



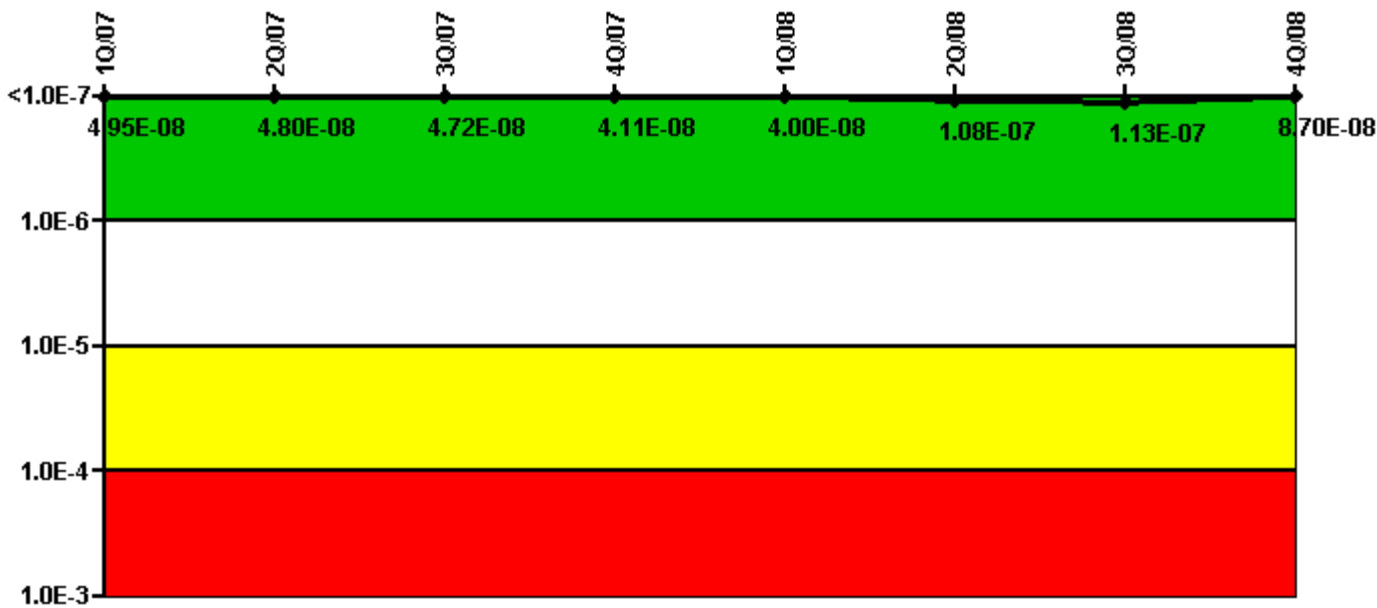
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	-5.60E-09	-5.60E-09	-5.60E-09	-1.30E-09	-1.10E-09	-9.90E-10	-9.60E-10	-9.20E-10
URI (ΔCDF)	4.30E-08	4.30E-08	4.30E-08	3.50E-08	9.10E-09	7.30E-09	8.00E-09	8.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.74E-08	3.74E-08	3.74E-08	3.37E-08	8.00E-09	6.31E-09	7.04E-09	7.68E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



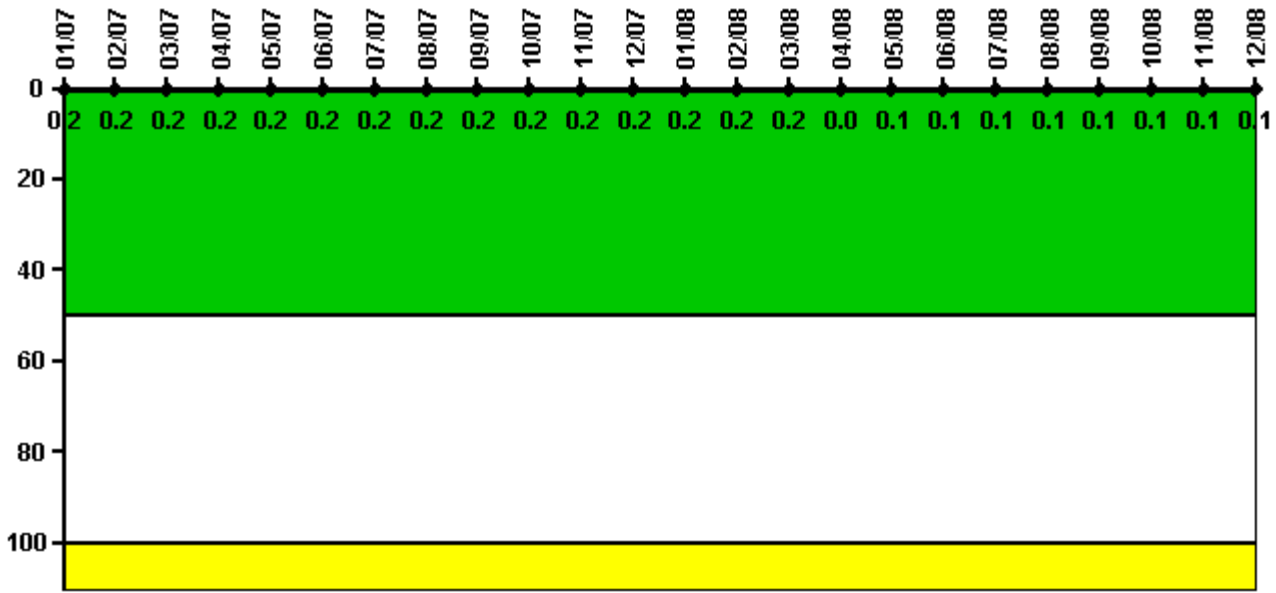
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	2.50E-09	-1.00E-08	-9.80E-09	-7.90E-09	-6.00E-09	3.70E-08	4.20E-08	1.60E-08
URI (ΔCDF)	4.70E-08	5.80E-08	5.70E-08	4.90E-08	4.60E-08	7.10E-08	7.10E-08	7.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.95E-08	4.80E-08	4.72E-08	4.11E-08	4.00E-08	1.08E-07	1.13E-07	8.70E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

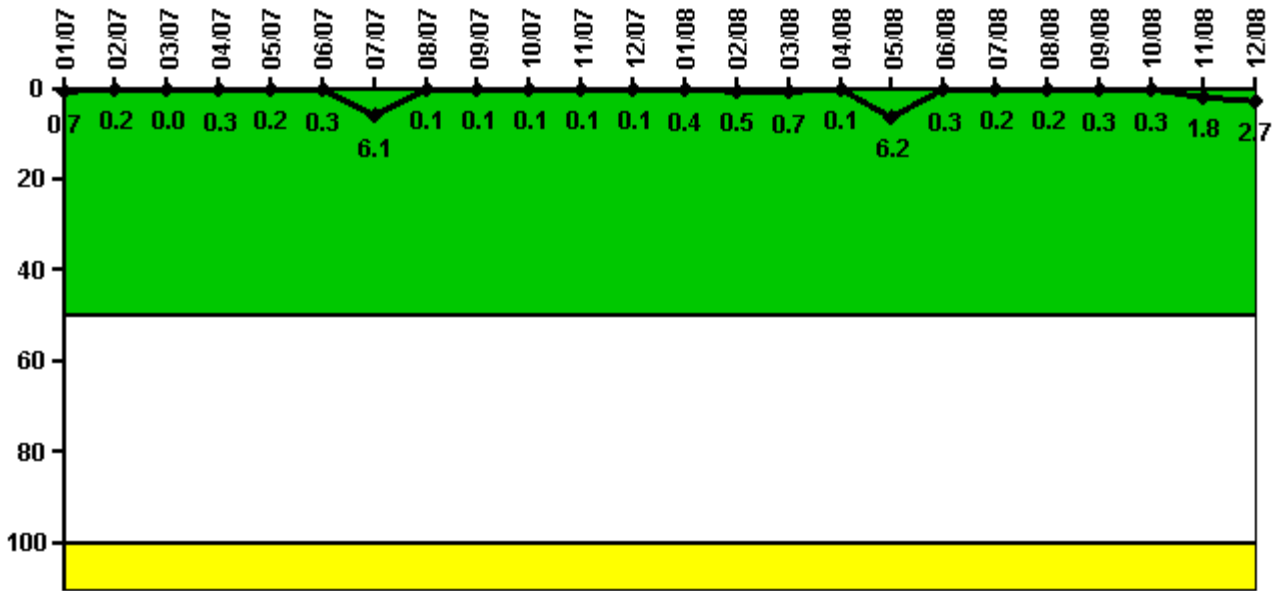
Notes

Reactor Coolant System Activity	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum activity	0.001540	0.001580	0.001650	0.001810	0.001740	0.001660	0.001840	0.001850	0.001930	0.002050	0.002020	0.002040
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Reactor Coolant System Activity	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	0.002140	0.002070	0.002220	0.000449	0.000501	0.000717	0.000595	0.000579	0.000614	0.000667	0.000608	0.000647
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



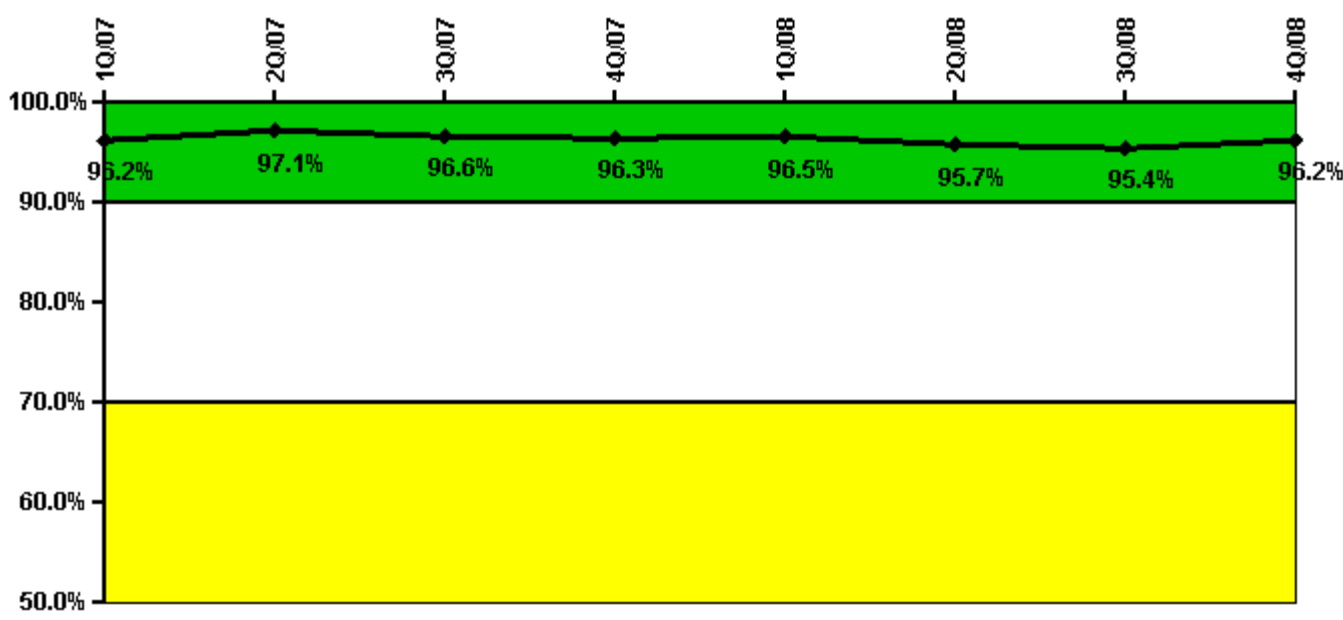
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum leakage	0.070	0.020	0	0.030	0.020	0.030	0.610	0.010	0.010	0.010	0.010	0.010
Technical specification limit	10.0	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	0.2	0	0.3	0.2	0.3	6.1	0.1	0.1	0.1	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	0.040	0.050	0.070	0.010	0.620	0.030	0.020	0.020	0.030	0.030	0.180	0.270
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.4	0.5	0.7	0.1	6.2	0.3	0.2	0.2	0.3	0.3	1.8	2.7

Licensee Comments: none

Drill/Exercise Performance



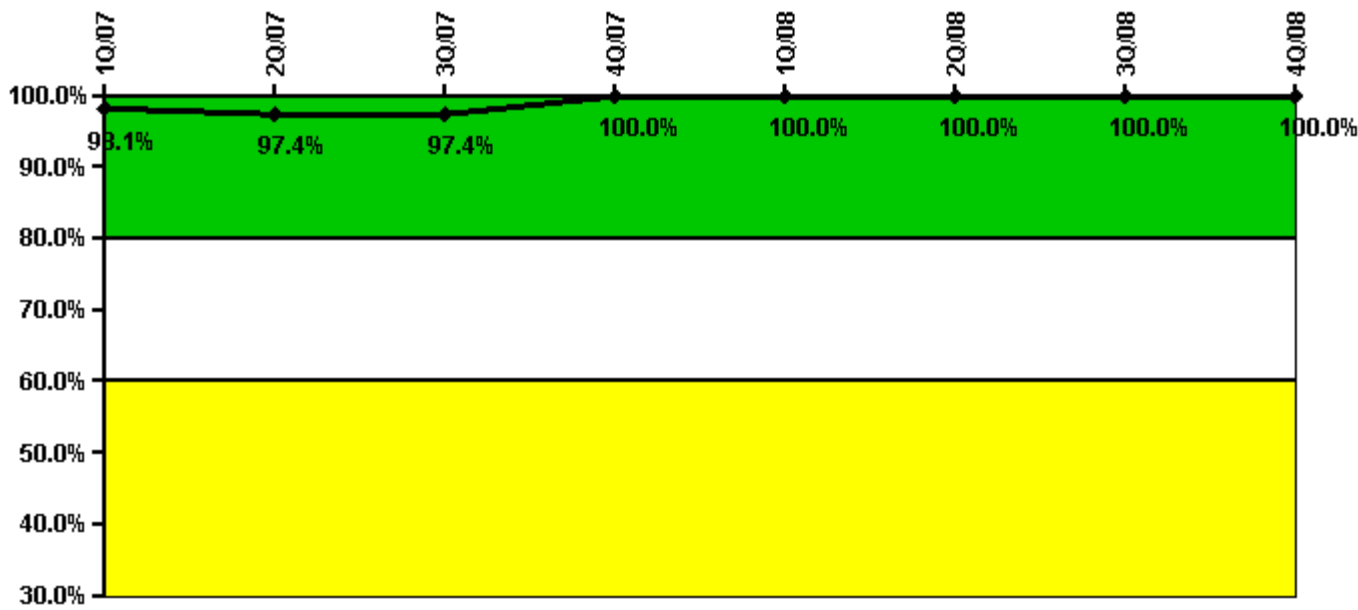
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful opportunities	19.0	57.0	72.0	66.0	28.0	50.0	90.0	74.0
Total opportunities	20.0	58.0	75.0	71.0	28.0	54.0	92.0	76.0
Indicator value	96.2%	97.1%	96.6%	96.3%	96.5%	95.7%	95.4%	96.2%

Licensee Comments: none

ERO Drill Participation



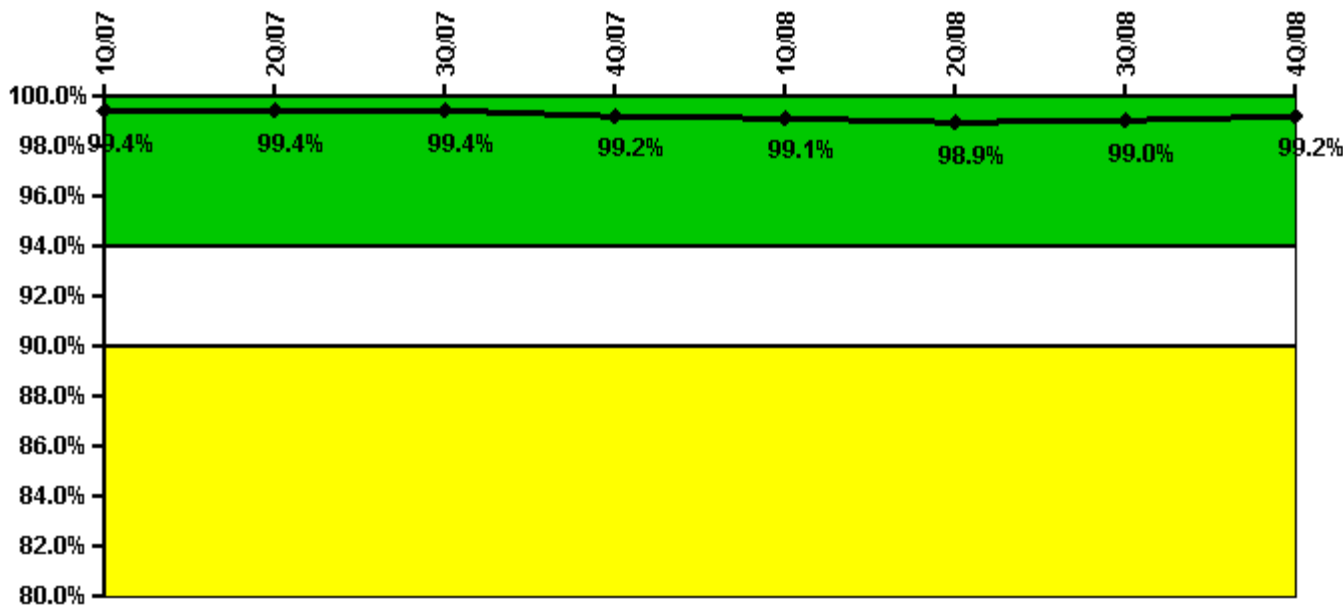
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Participating Key personnel	106.0	114.0	113.0	111.0	114.0	99.0	94.0	93.0
Total Key personnel	108.0	117.0	116.0	111.0	114.0	99.0	94.0	93.0
Indicator value	98.1%	97.4%	97.4%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



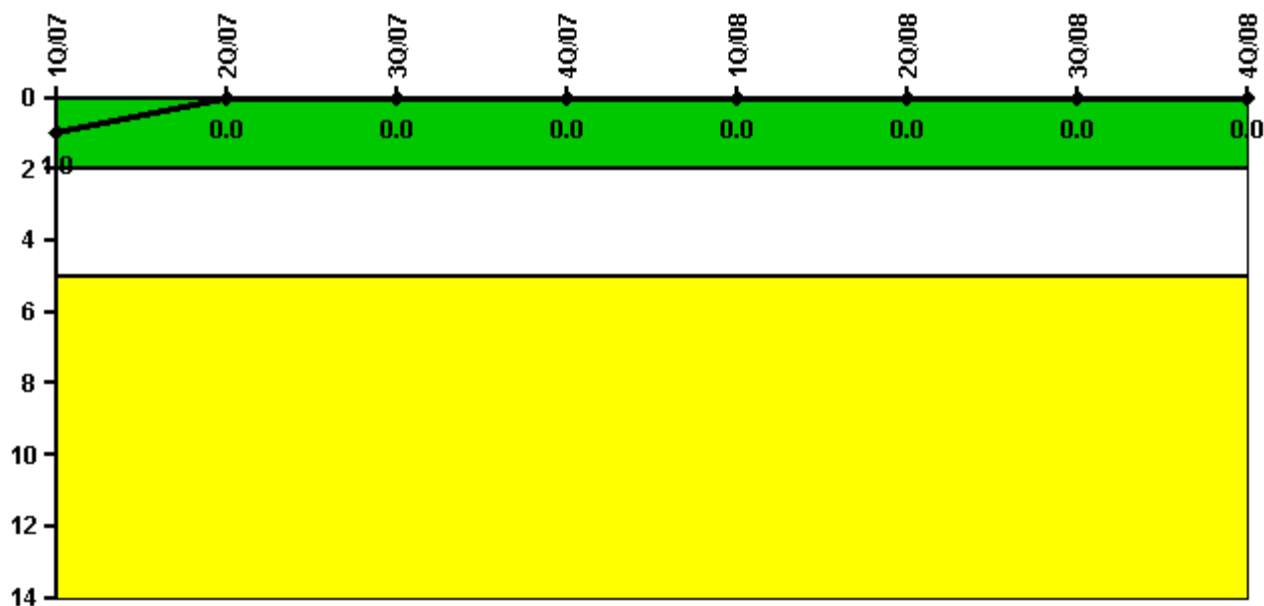
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful siren-tests	728	965	536	618	786	627	486	1220
Total sirens-tests	732	974	540	625	793	637	488	1225
Indicator value	99.4%	99.4%	99.4%	99.2%	99.1%	98.9%	99.0%	99.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness



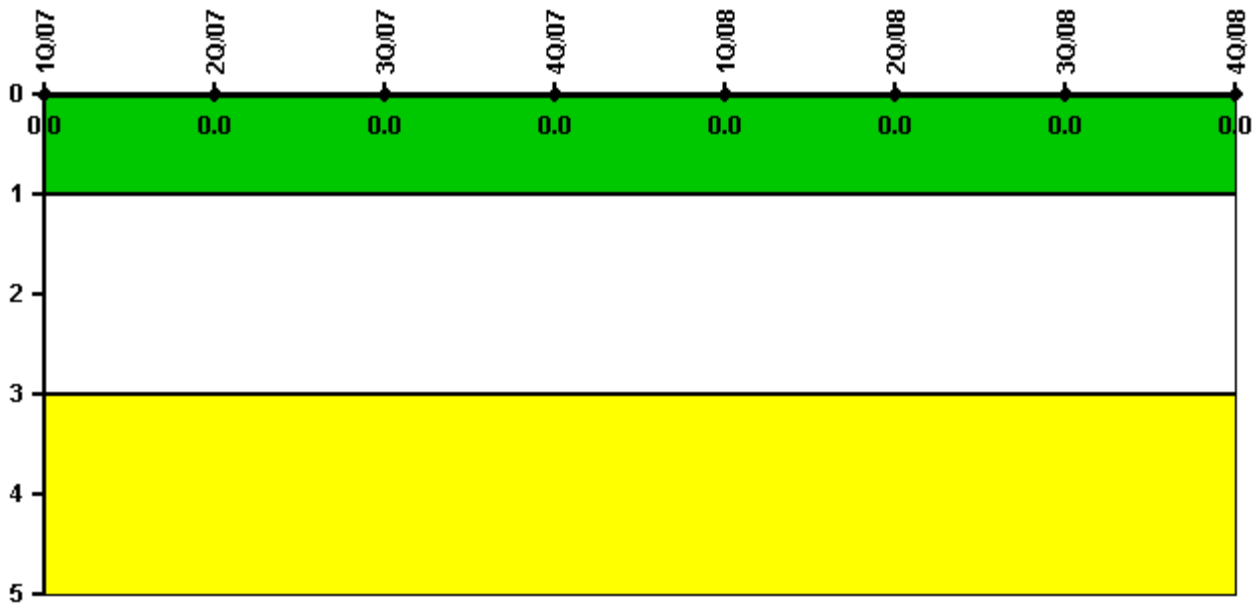
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/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

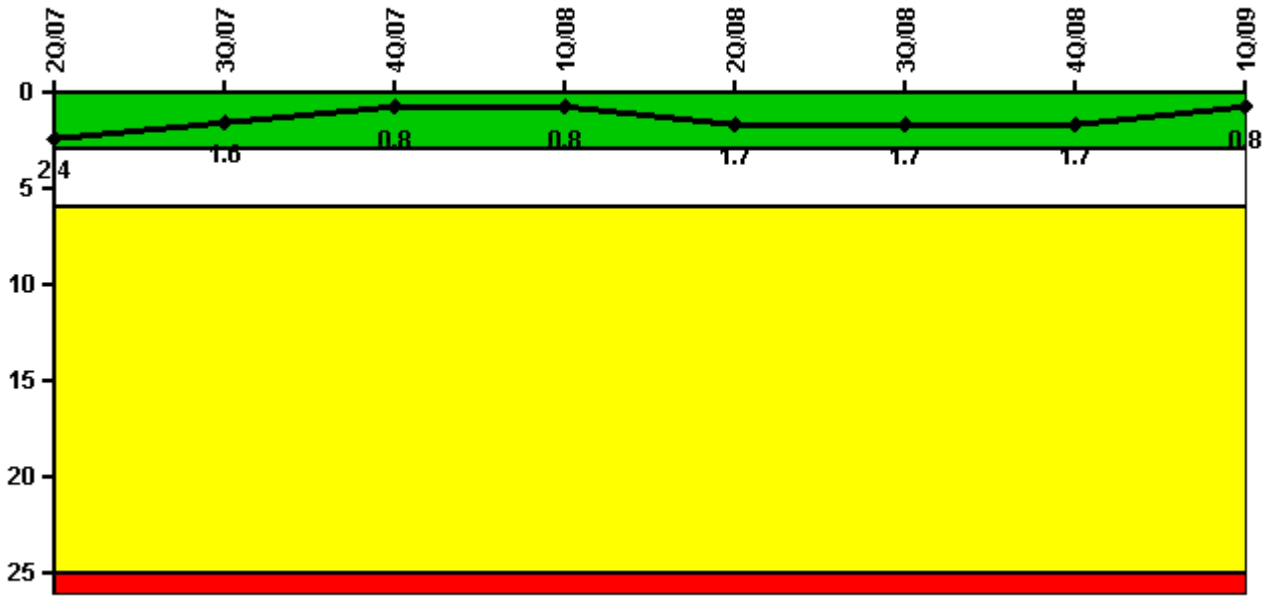
[Security](#) information not publicly available.

Indian Point 2

1Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



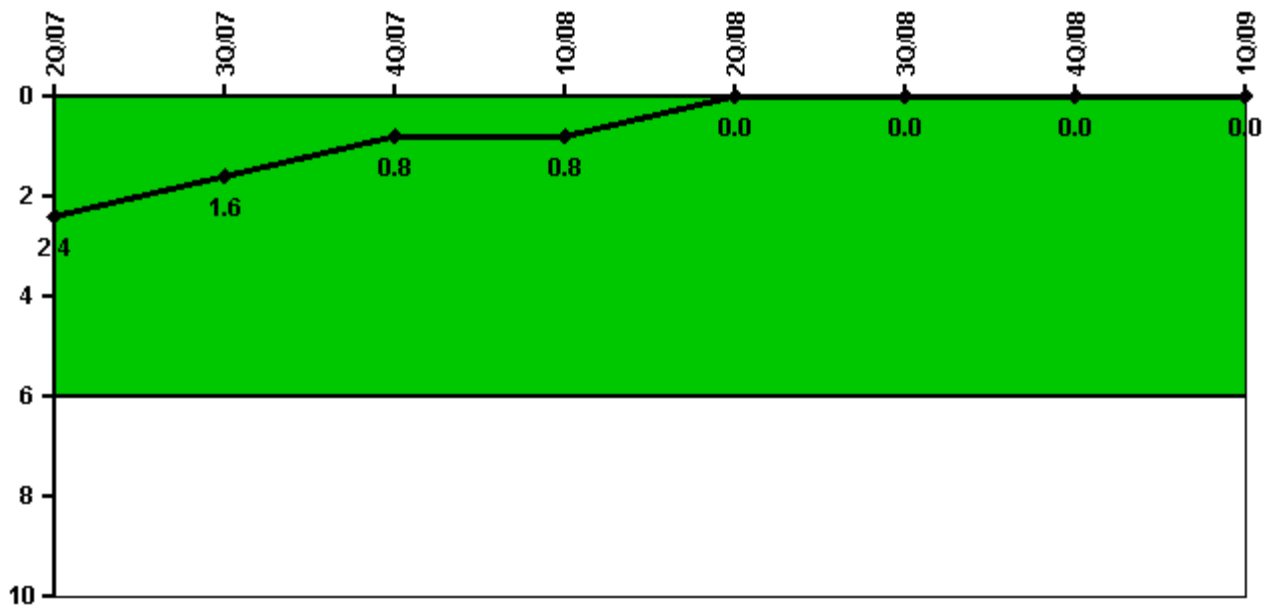
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned scrams	0	0	0	1.0	1.0	0	0	0
Critical hours	2184.0	2208.0	2209.0	1989.3	1724.9	2208.0	2209.0	2159.0
Indicator value	2.4	1.6	0.8	0.8	1.7	1.7	1.7	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



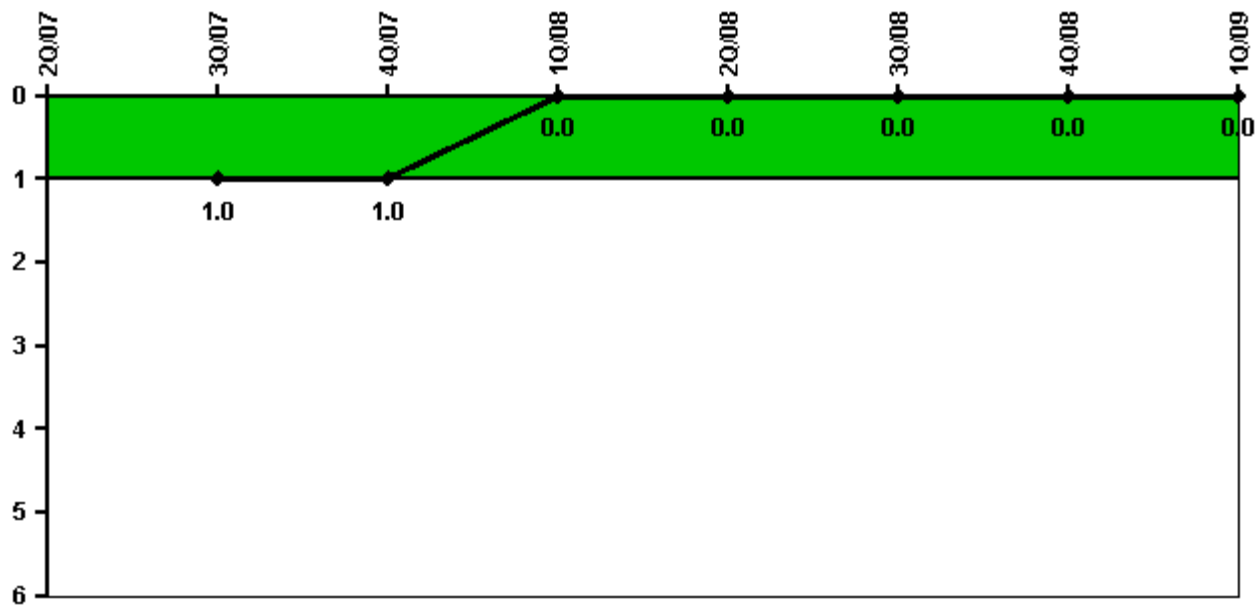
Thresholds: White > 6.0

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	1.0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	1989.3	1724.9	2208.0	2209.0	2159.0
Indicator value	2.4	1.6	0.8	0.8	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



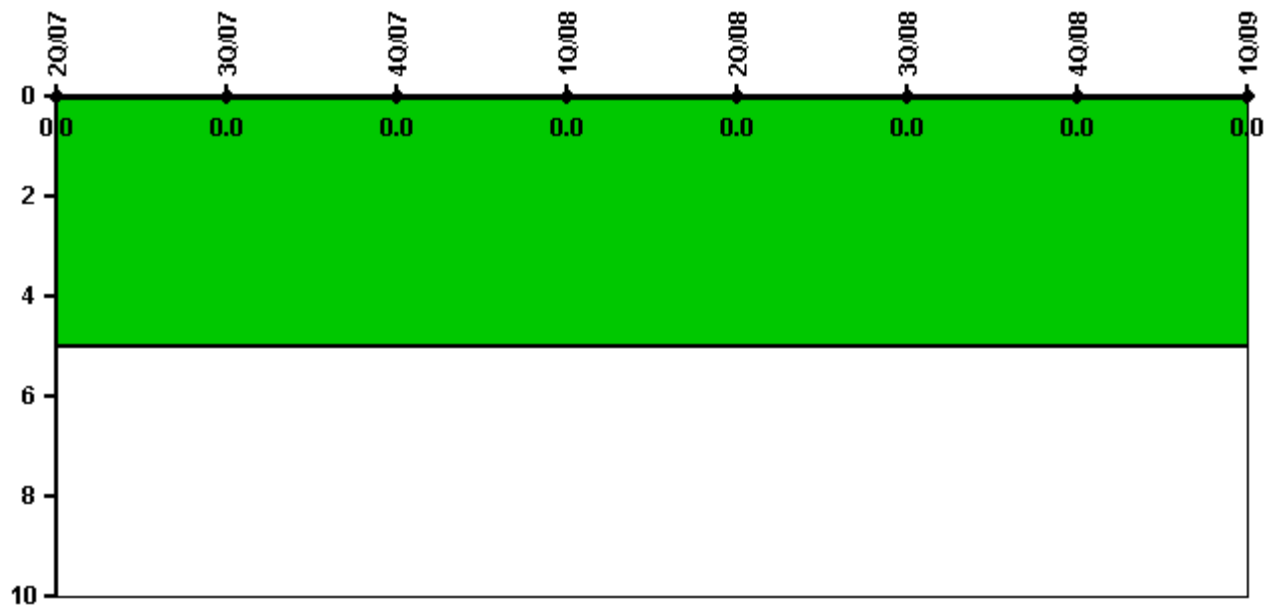
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

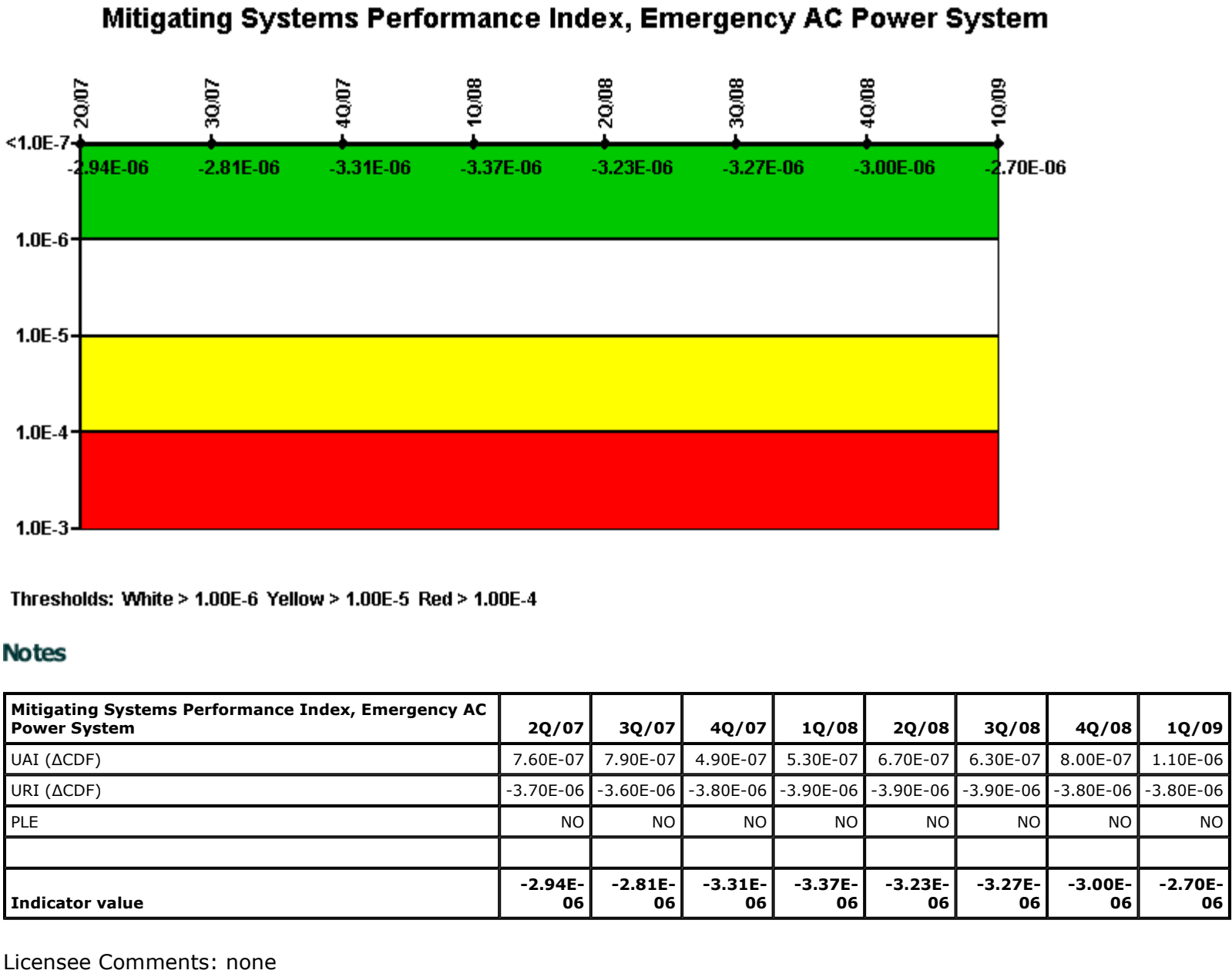


Thresholds: White > 5.0

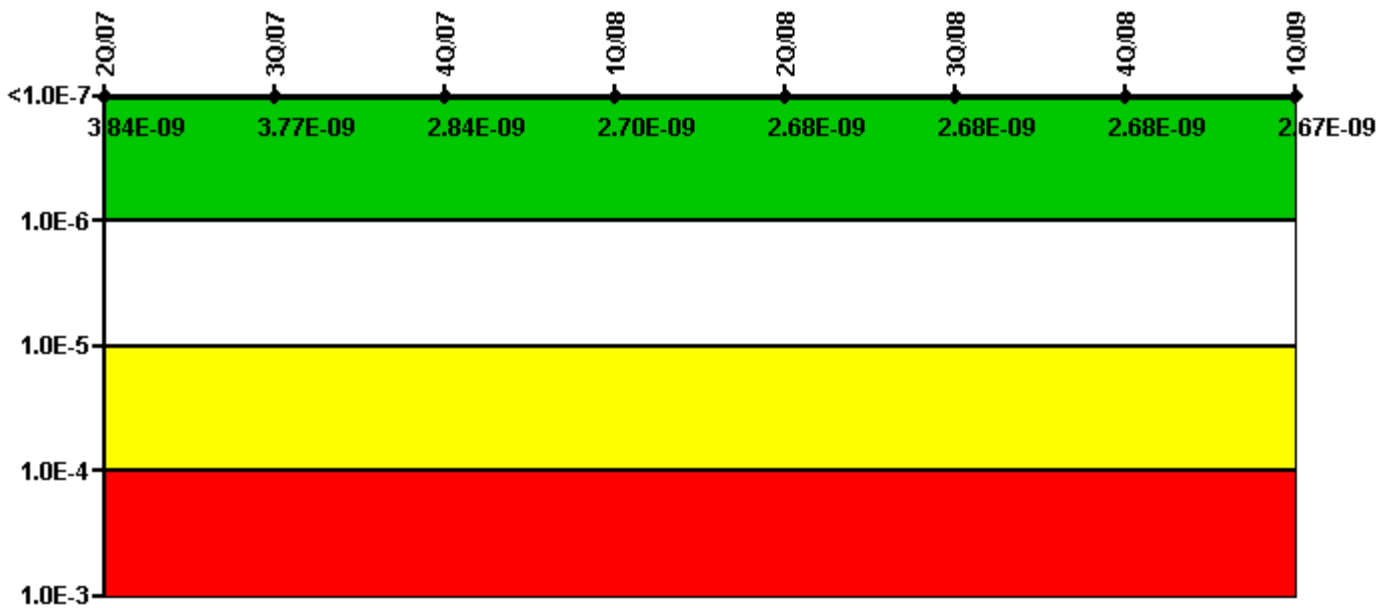
Notes

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

Licensee Comments: none



Mitigating Systems Performance Index, High Pressure Injection System



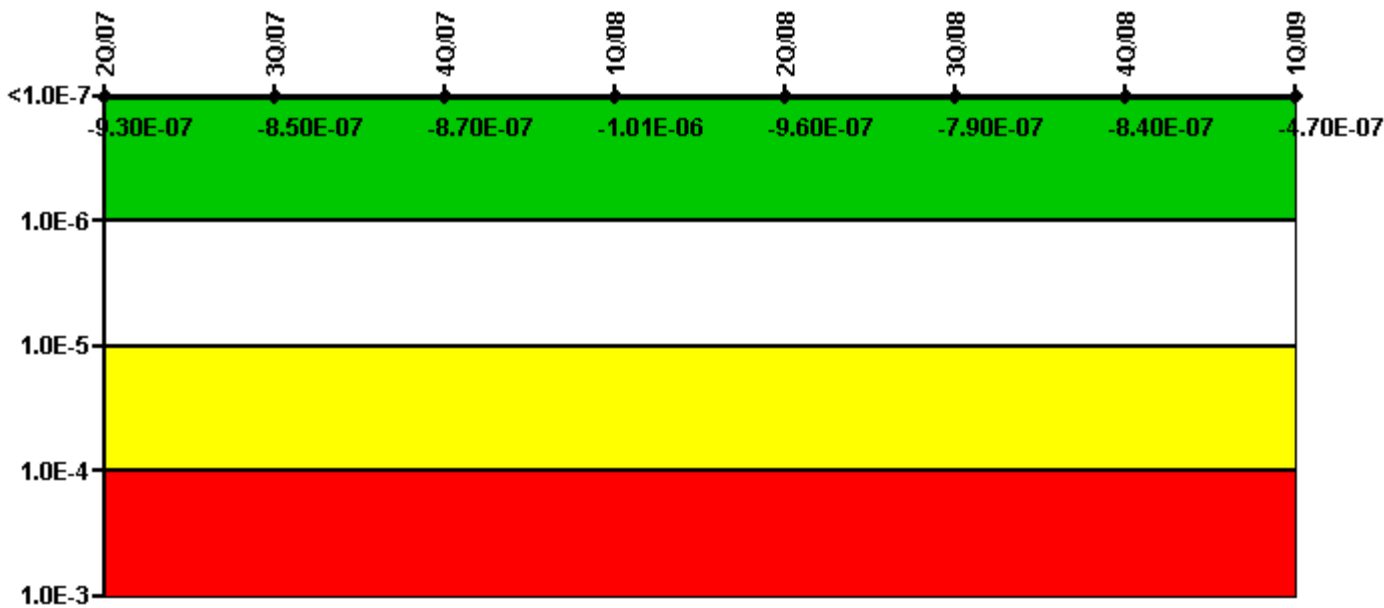
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	2.40E-10	1.70E-10	4.40E-11	-9.80E-11	-1.20E-10	-1.20E-10	-1.20E-10	-1.30E-10
URI (ΔCDF)	3.60E-09	3.60E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.84E-09	3.77E-09	2.84E-09	2.70E-09	2.68E-09	2.68E-09	2.68E-09	2.67E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



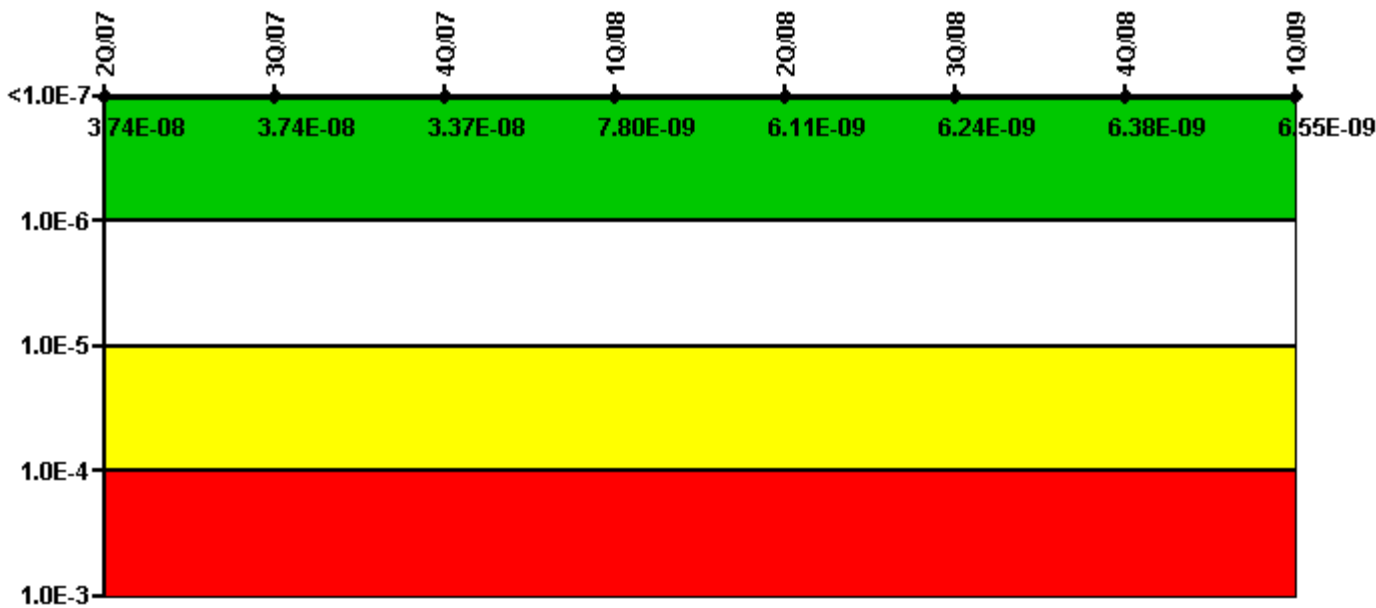
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	2.70E-07	2.50E-07	2.30E-07	1.90E-07	2.40E-07	4.10E-07	3.60E-07	6.30E-07
URI (ΔCDF)	-1.20E-06	-1.10E-06	-1.10E-06	-1.20E-06	-1.20E-06	-1.20E-06	-1.20E-06	-1.10E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.30E-07	-8.50E-07	-8.70E-07	-1.01E-06	-9.60E-07	-7.90E-07	-8.40E-07	-4.70E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



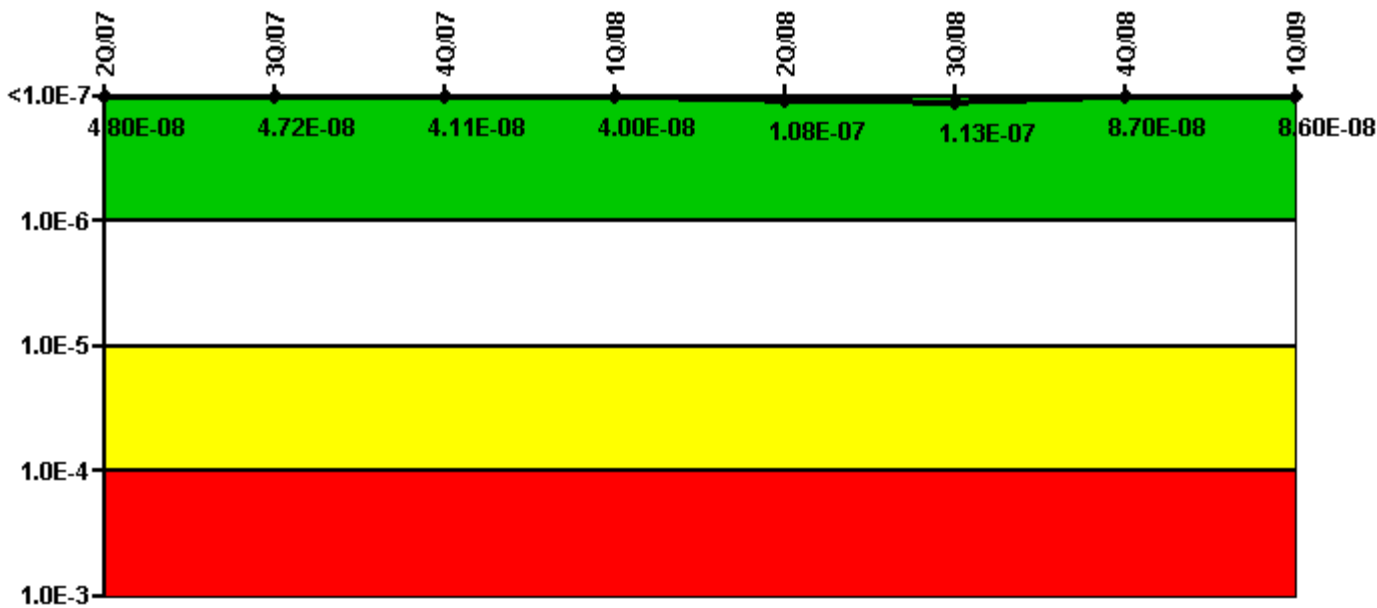
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	-5.60E-09	-5.60E-09	-1.30E-09	-1.10E-09	-9.90E-10	-9.60E-10	-9.20E-10	-9.50E-10
URI (ΔCDF)	4.30E-08	4.30E-08	3.50E-08	8.90E-09	7.10E-09	7.20E-09	7.30E-09	7.50E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.74E-08	3.74E-08	3.37E-08	7.80E-09	6.11E-09	6.24E-09	6.38E-09	6.55E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



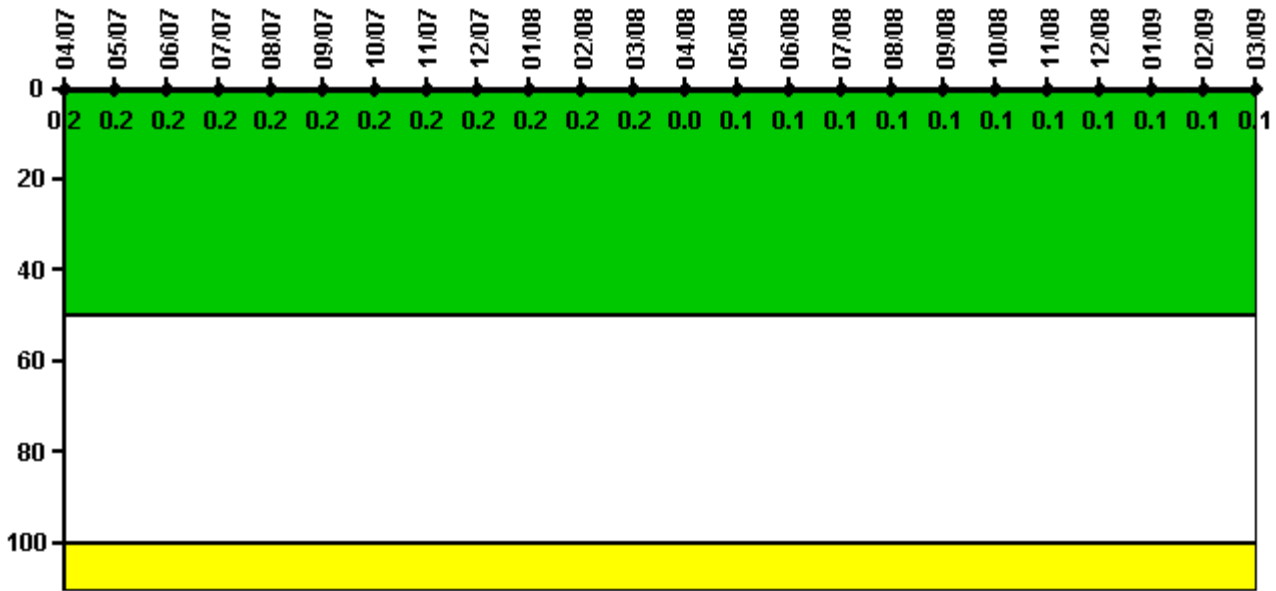
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	-1.00E-08	-9.80E-09	-7.90E-09	-6.00E-09	3.70E-08	4.20E-08	1.60E-08	1.50E-08
URI (ΔCDF)	5.80E-08	5.70E-08	4.90E-08	4.60E-08	7.10E-08	7.10E-08	7.10E-08	7.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.80E-08	4.72E-08	4.11E-08	4.00E-08	1.08E-07	1.13E-07	8.70E-08	8.60E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

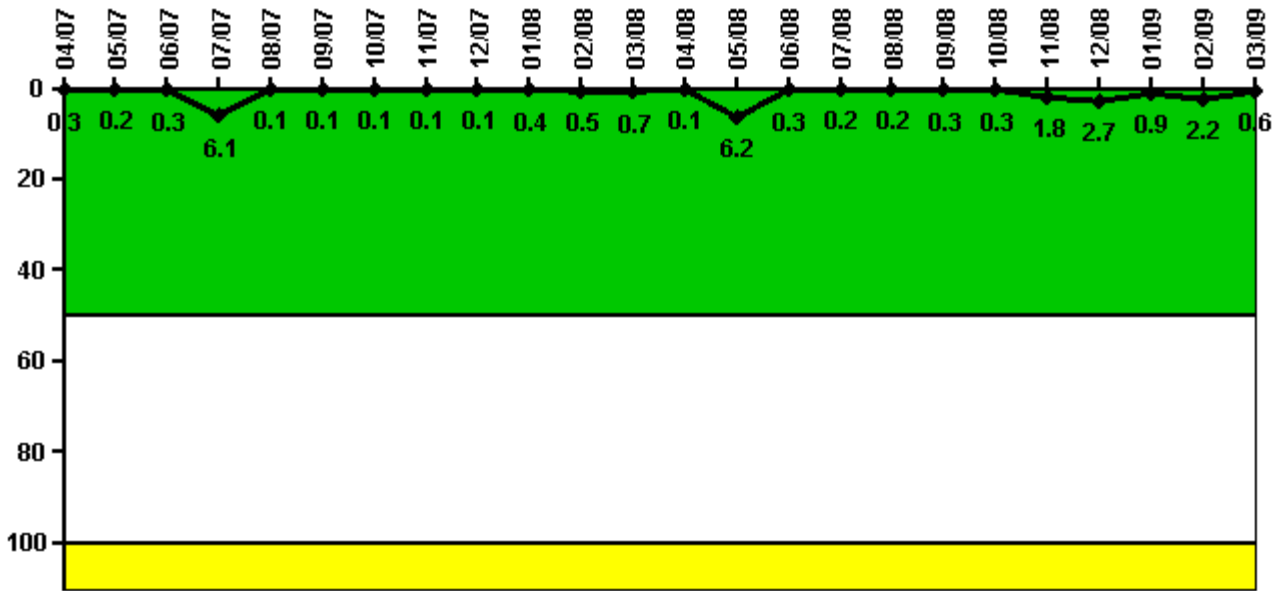
Notes

Reactor Coolant System Activity	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum activity	0.001810	0.001740	0.001660	0.001840	0.001850	0.001930	0.002050	0.002020	0.002040	0.002140	0.002070	0.002220
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Reactor Coolant System Activity	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	0.000449	0.000501	0.000717	0.000595	0.000579	0.000614	0.000667	0.000608	0.000647	0.000627	0.000653	0.000690
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



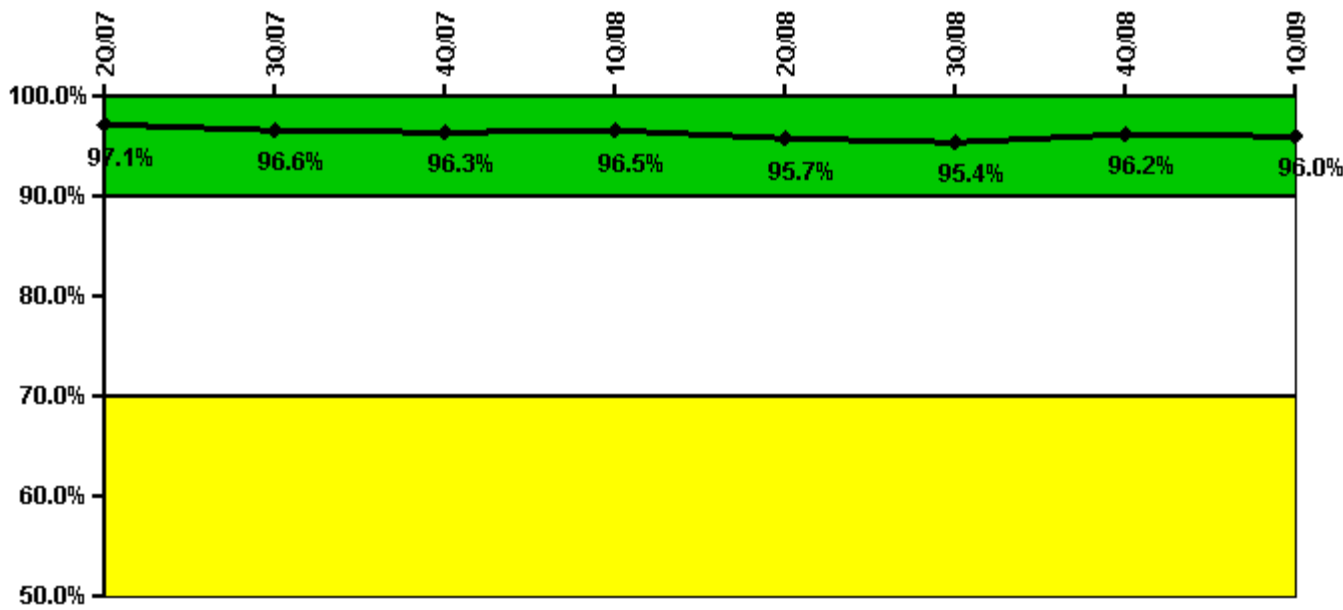
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum leakage	0.030	0.020	0.030	0.610	0.010	0.010	0.010	0.010	0.010	0.040	0.050	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.3	0.2	0.3	6.1	0.1	0.1	0.1	0.1	0.1	0.4	0.5	0.7
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	0.010	0.620	0.030	0.020	0.020	0.030	0.030	0.180	0.270	0.090	0.220	0.060
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	6.2	0.3	0.2	0.2	0.3	0.3	1.8	2.7	0.9	2.2	0.6

Licensee Comments: none

Drill/Exercise Performance



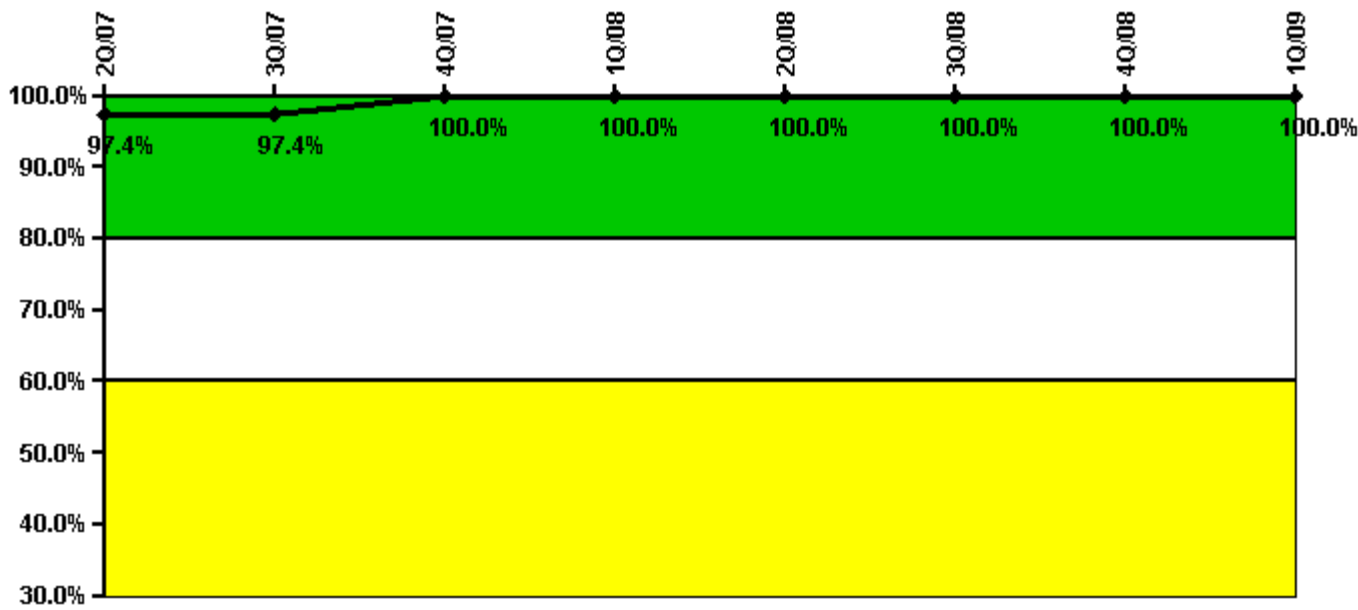
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful opportunities	57.0	72.0	66.0	28.0	50.0	90.0	74.0	22.0
Total opportunities	58.0	75.0	71.0	28.0	54.0	92.0	76.0	24.0
Indicator value	97.1%	96.6%	96.3%	96.5%	95.7%	95.4%	96.2%	96.0%

Licensee Comments: none

ERO Drill Participation



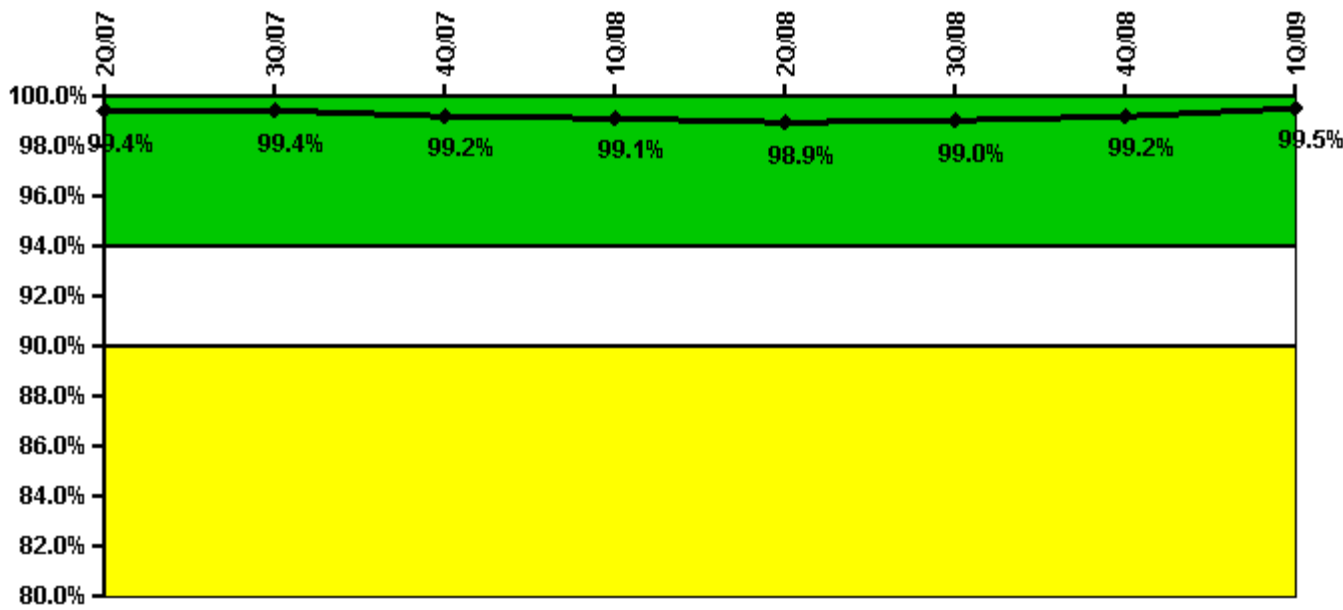
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Participating Key personnel	114.0	113.0	111.0	114.0	99.0	94.0	93.0	94.0
Total Key personnel	117.0	116.0	111.0	114.0	99.0	94.0	93.0	94.0
Indicator value	97.4%	97.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



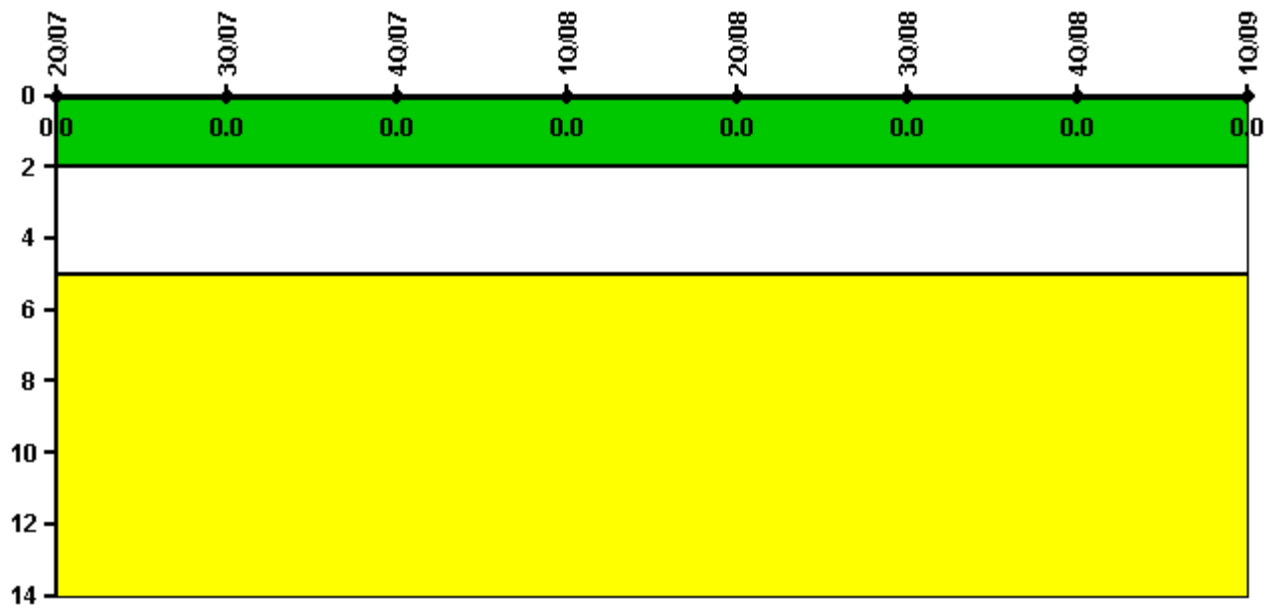
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful siren-tests	965	536	618	786	627	486	1220	1156
Total sirens-tests	974	540	625	793	637	488	1225	1158
Indicator value	99.4%	99.4%	99.2%	99.1%	98.9%	99.0%	99.2%	99.5%

Licensee Comments: none

Occupational Exposure Control Effectiveness



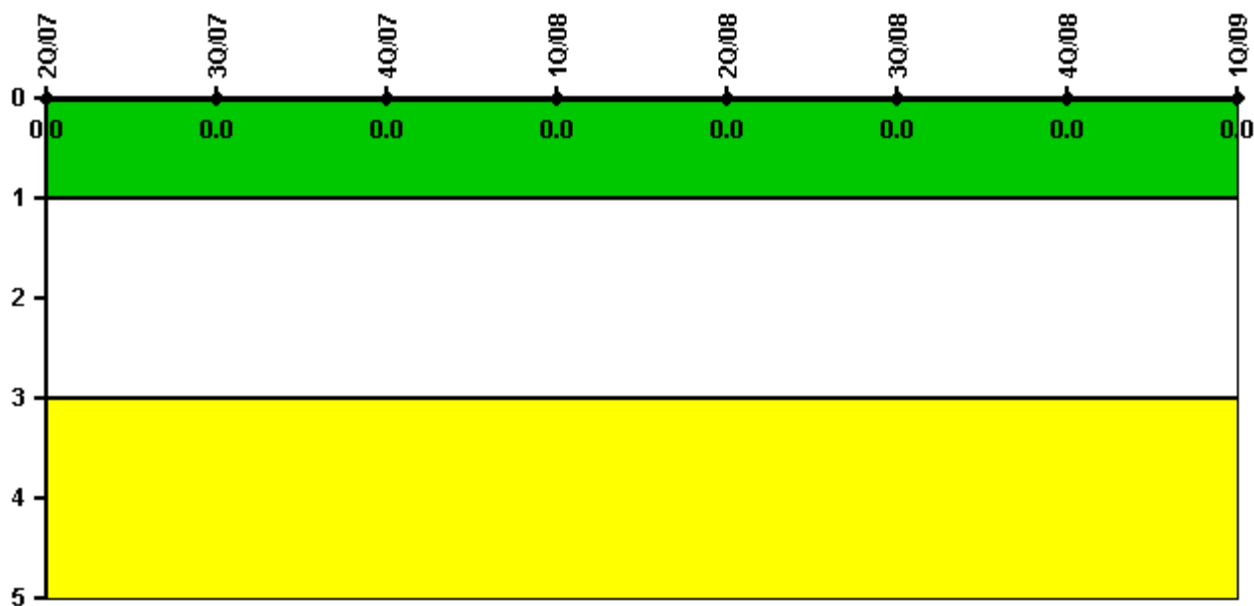
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

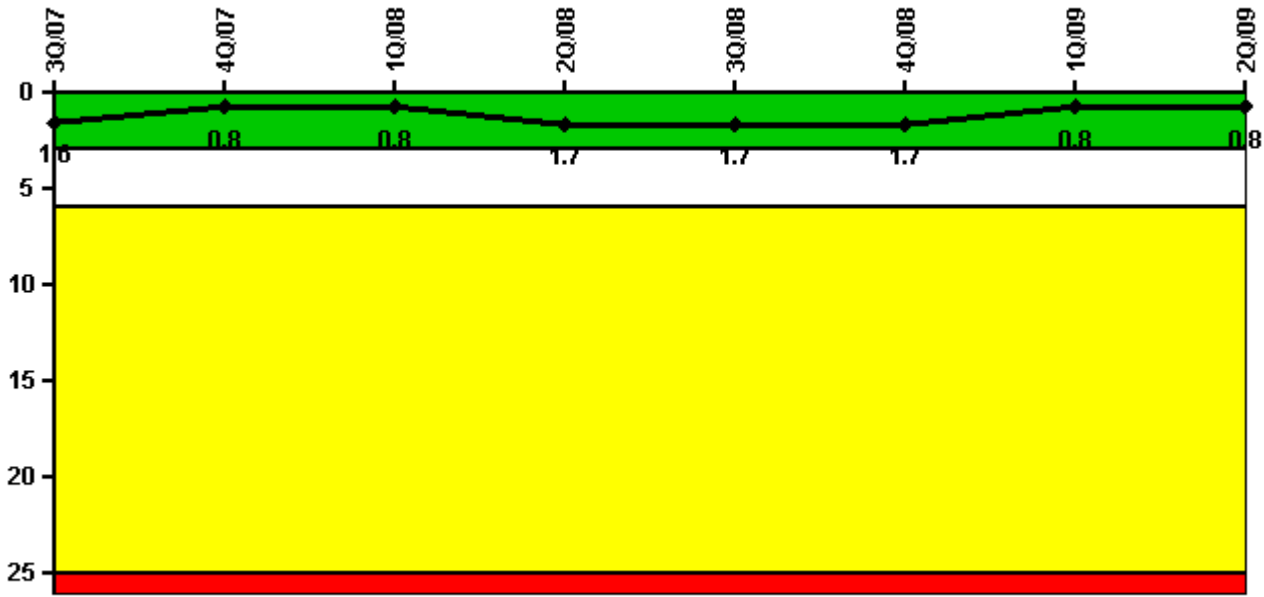
[Security](#) information not publicly available.

Indian Point 2

2Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



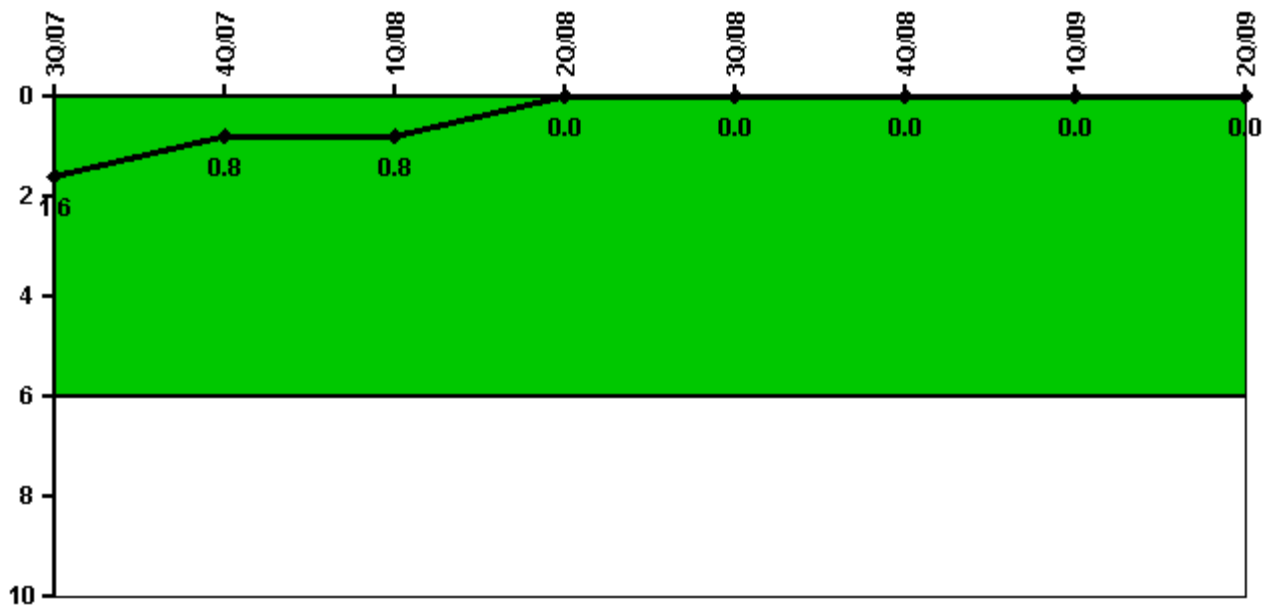
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned scrams	0	0	1.0	1.0	0	0	0	1.0
Critical hours	2208.0	2209.0	1989.3	1724.9	2208.0	2209.0	2159.0	2160.3
Indicator value	1.6	0.8	0.8	1.7	1.7	1.7	0.8	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



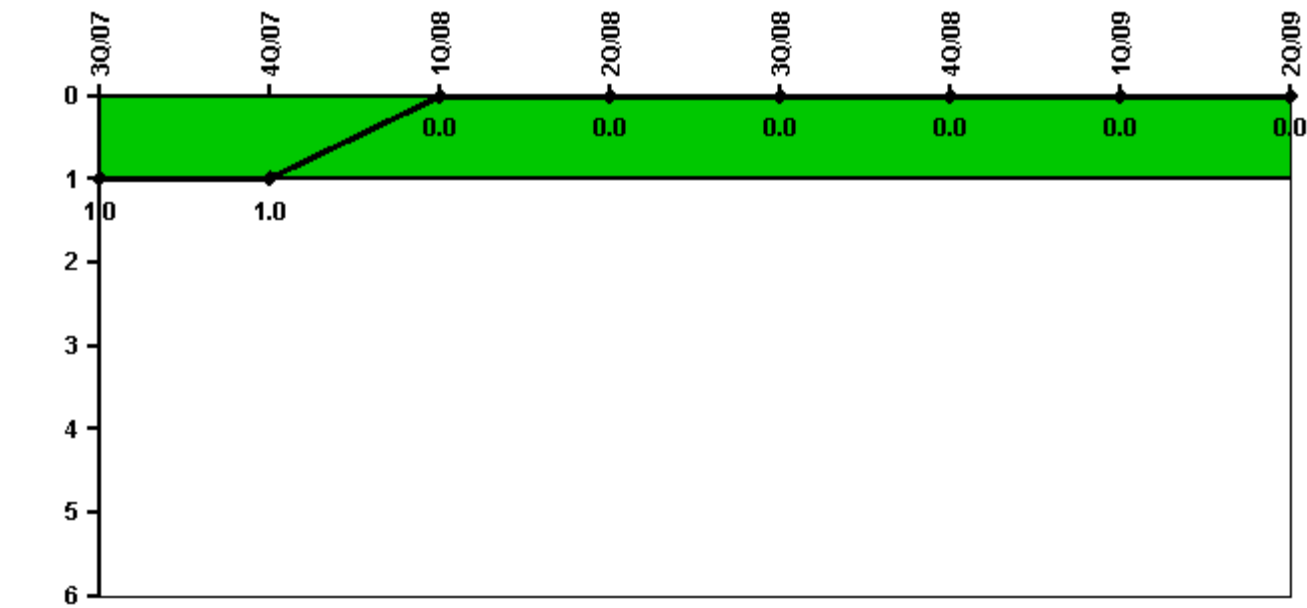
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	1989.3	1724.9	2208.0	2209.0	2159.0	2160.3
Indicator value	1.6	0.8	0.8	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



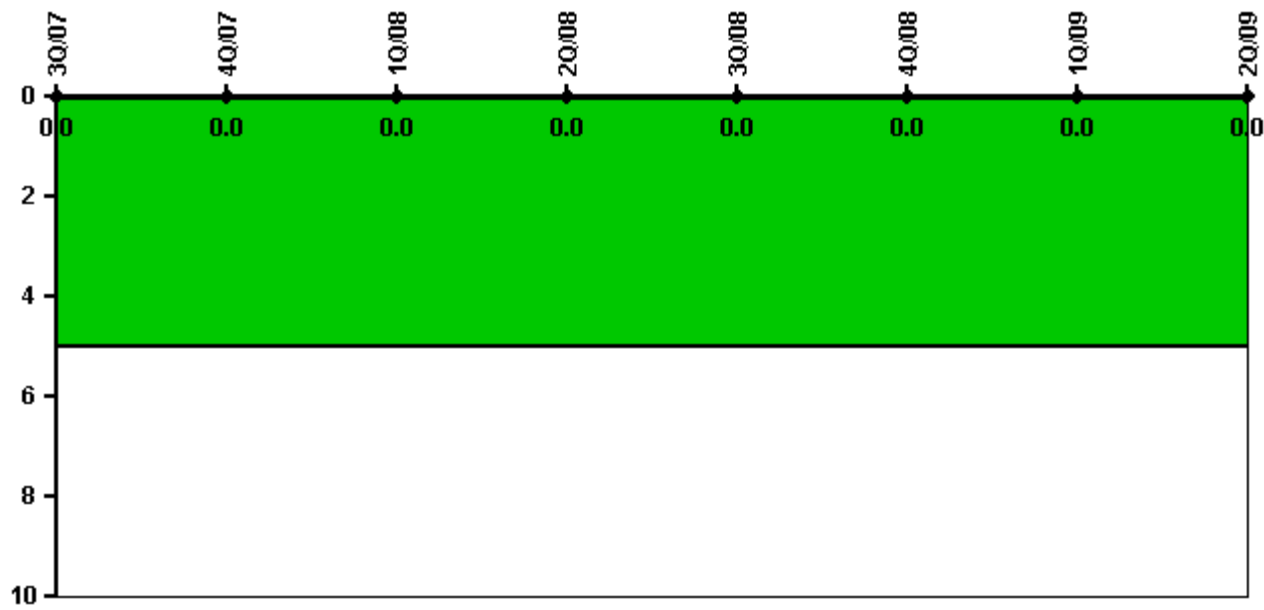
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

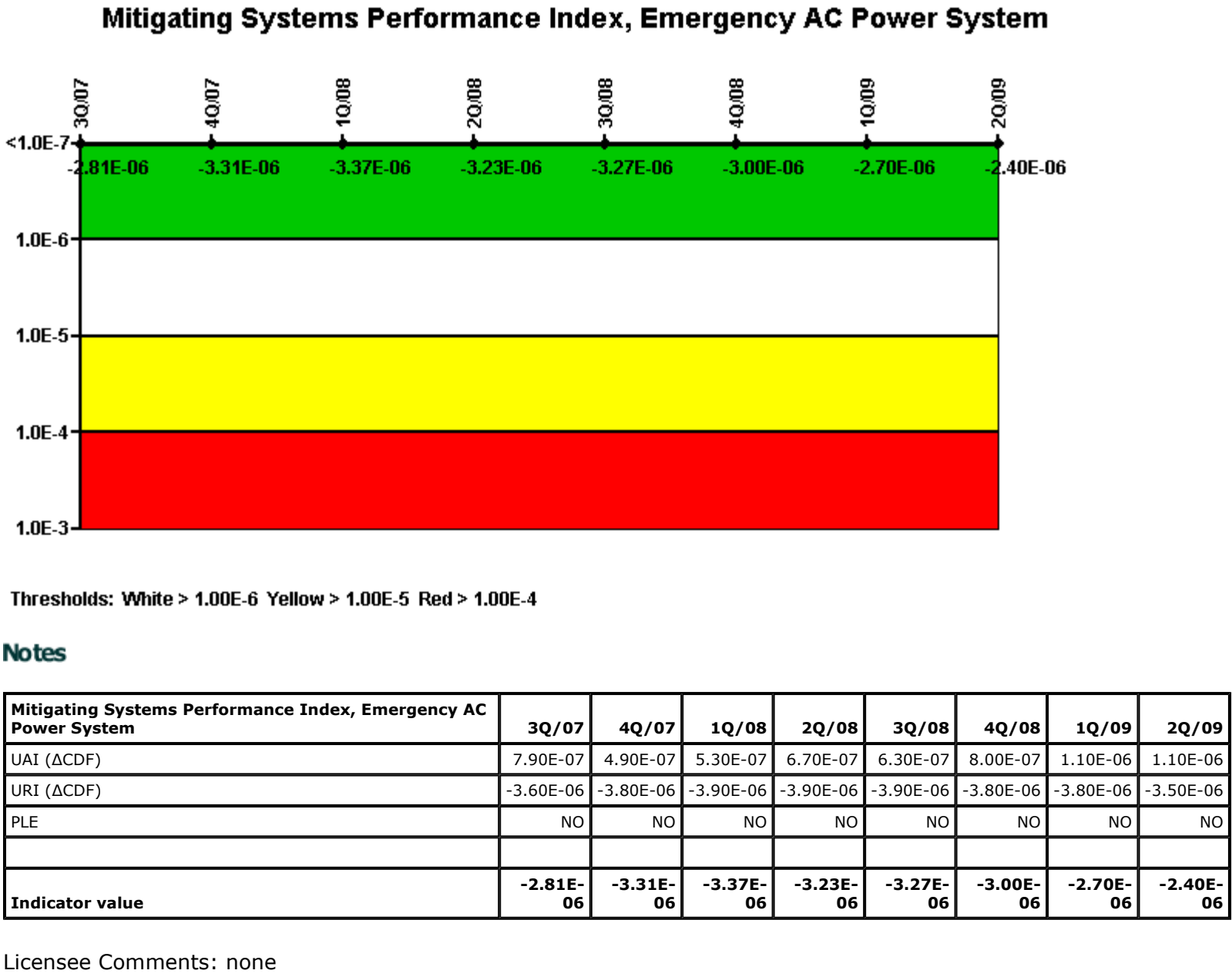


Thresholds: White > 5.0

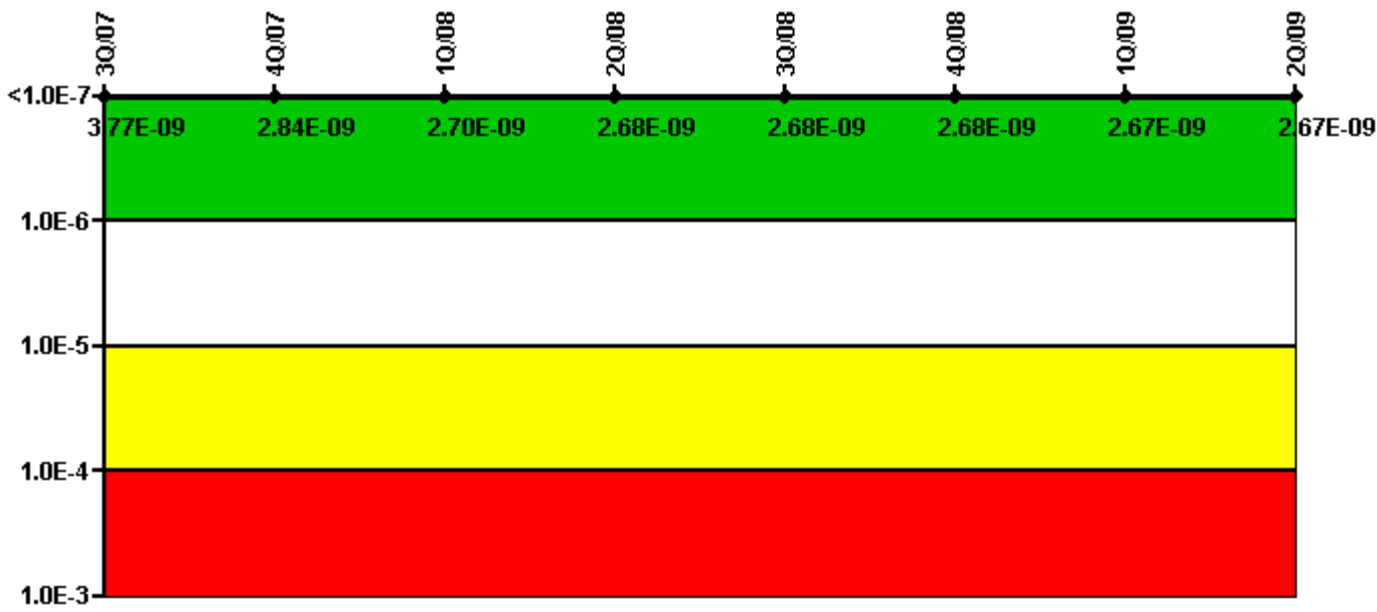
Notes

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

Licensee Comments: none



Mitigating Systems Performance Index, High Pressure Injection System



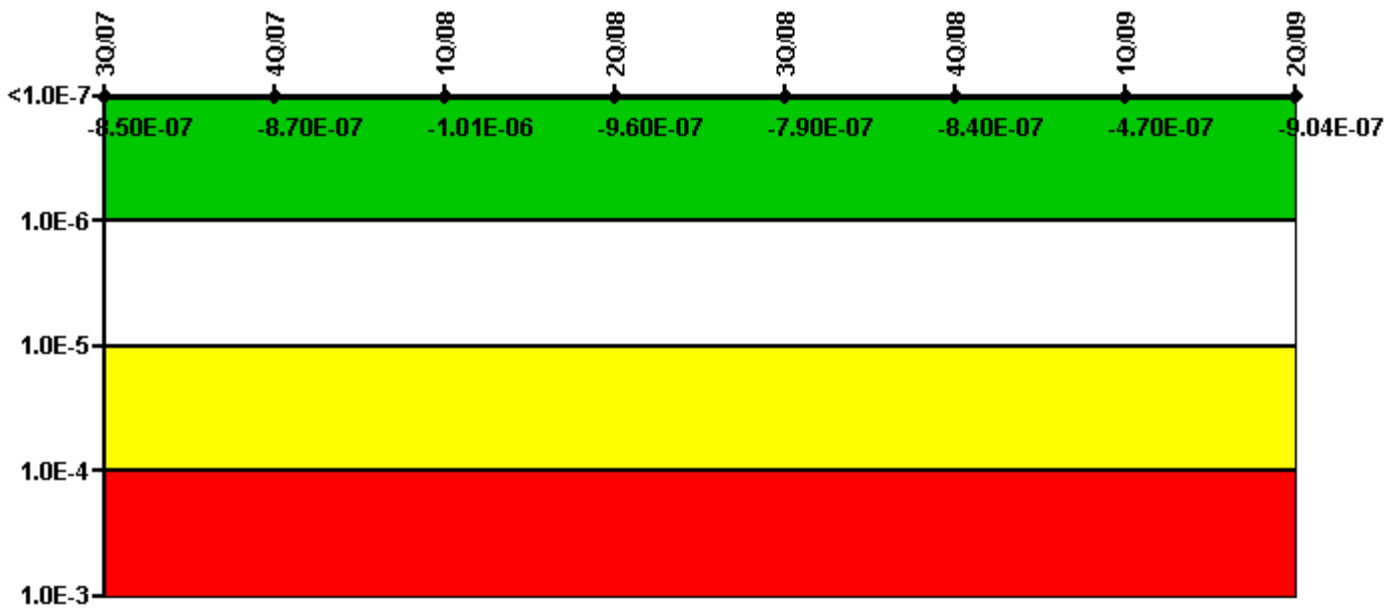
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	1.70E-10	4.40E-11	-9.80E-11	-1.20E-10	-1.20E-10	-1.20E-10	-1.30E-10	-1.30E-10
URI (ΔCDF)	3.60E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.77E-09	2.84E-09	2.70E-09	2.68E-09	2.68E-09	2.68E-09	2.67E-09	2.67E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



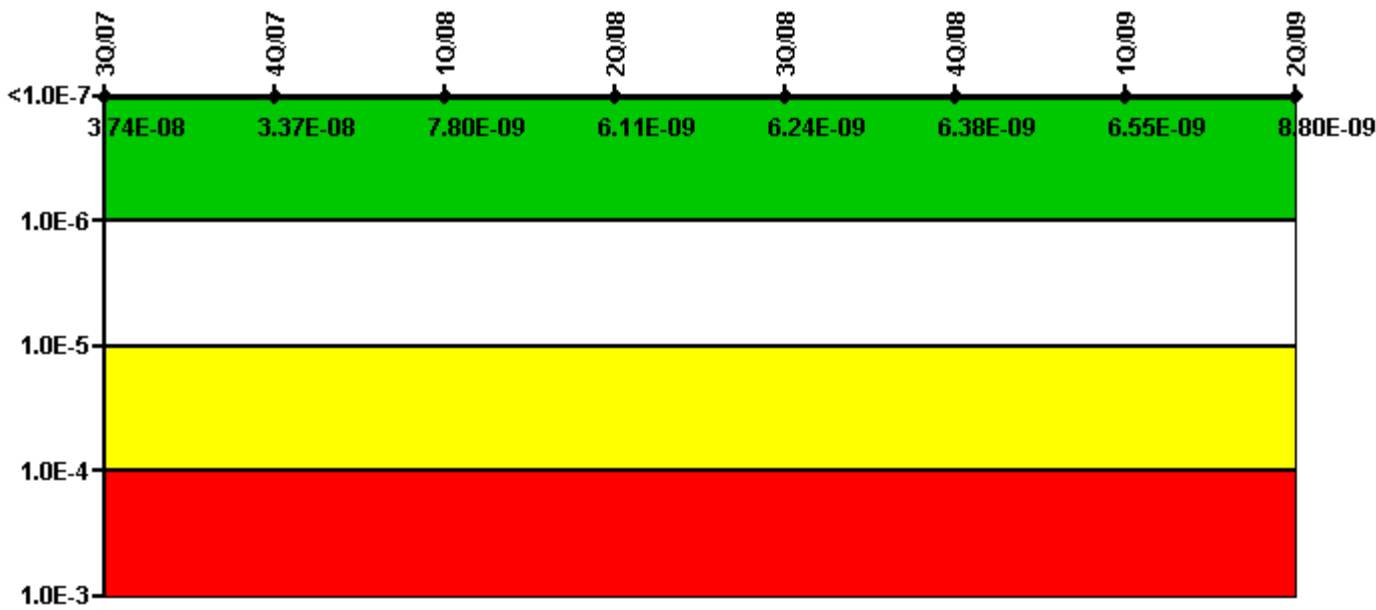
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	2.50E-07	2.30E-07	1.90E-07	2.40E-07	4.10E-07	3.60E-07	6.30E-07	9.60E-08
URI (ΔCDF)	-1.10E-06	-1.10E-06	-1.20E-06	-1.20E-06	-1.20E-06	-1.20E-06	-1.10E-06	-1.00E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.50E-07	-8.70E-07	-1.01E-06	-9.60E-07	-7.90E-07	-8.40E-07	-4.70E-07	-9.04E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



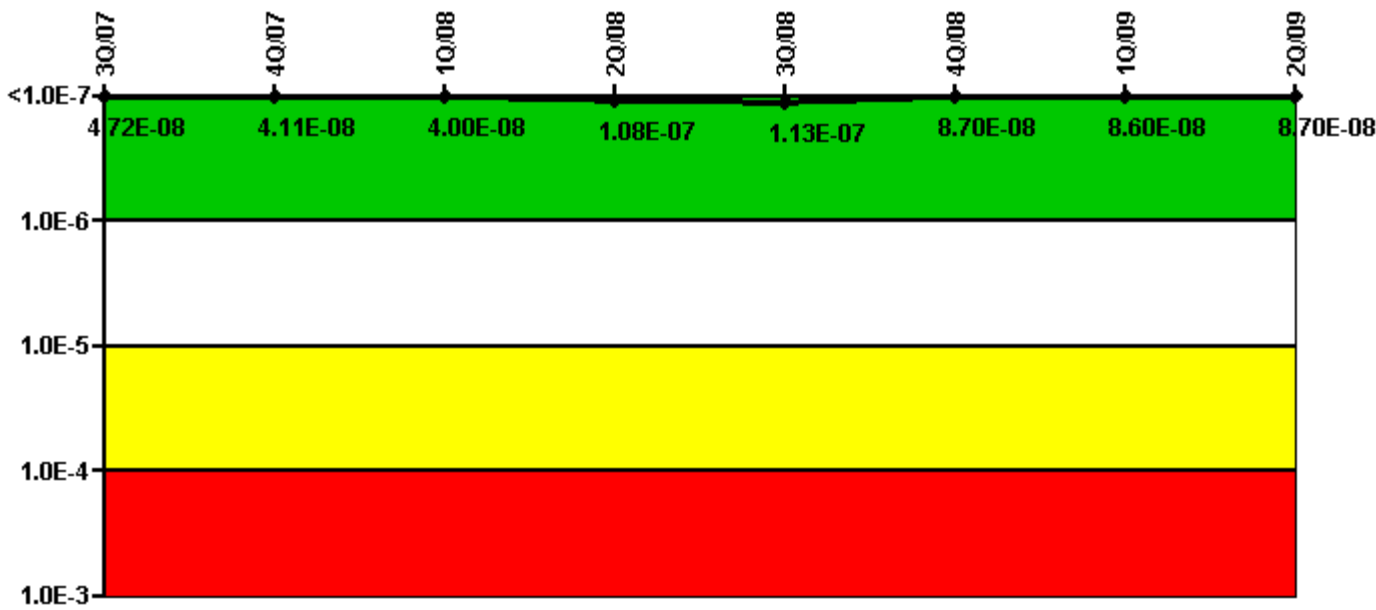
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	-5.60E-09	-1.30E-09	-1.10E-09	-9.90E-10	-9.60E-10	-9.20E-10	-9.50E-10	-1.20E-09
URI (ΔCDF)	4.30E-08	3.50E-08	8.90E-09	7.10E-09	7.20E-09	7.30E-09	7.50E-09	1.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.74E-08	3.37E-08	7.80E-09	6.11E-09	6.24E-09	6.38E-09	6.55E-09	8.80E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



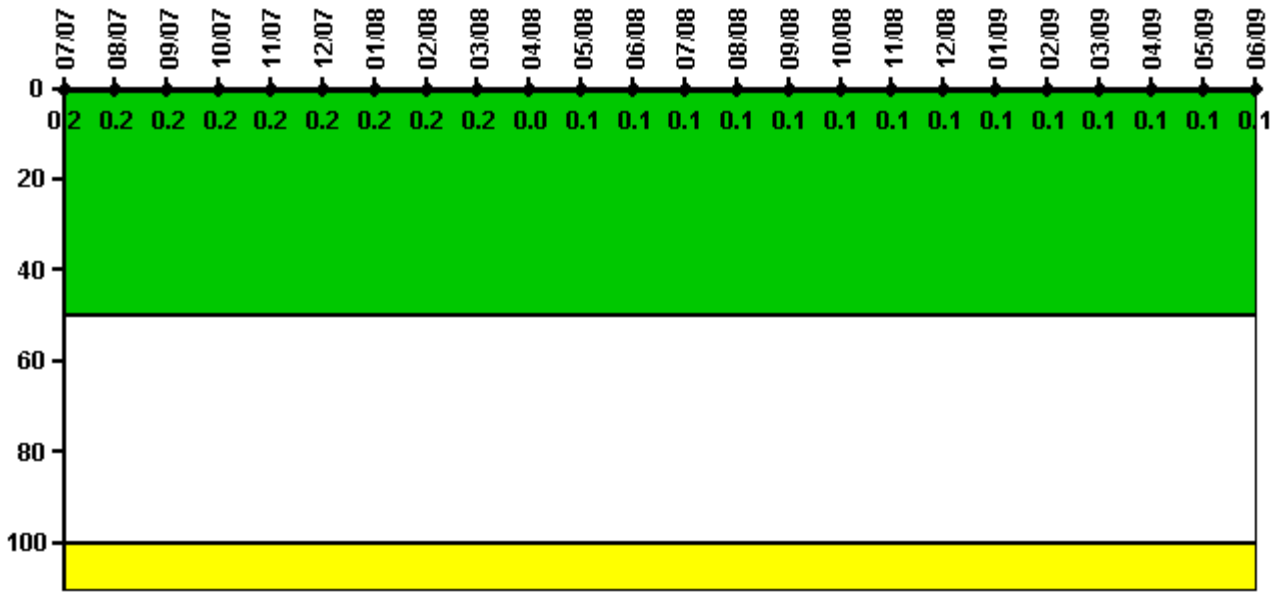
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	-9.80E-09	-7.90E-09	-6.00E-09	3.70E-08	4.20E-08	1.60E-08	1.50E-08	1.40E-08
URI (ΔCDF)	5.70E-08	4.90E-08	4.60E-08	7.10E-08	7.10E-08	7.10E-08	7.10E-08	7.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.72E-08	4.11E-08	4.00E-08	1.08E-07	1.13E-07	8.70E-08	8.60E-08	8.70E-08

Licensee Comments: none

Reactor Coolant System Activity



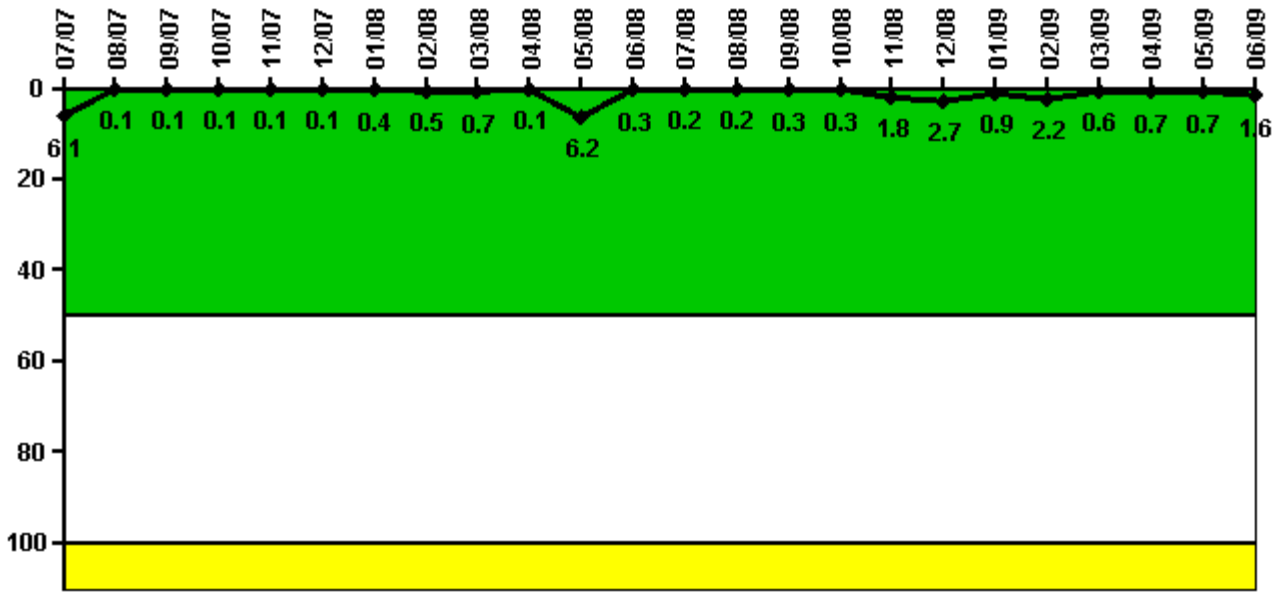
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum activity	0.001840	0.001850	0.001930	0.002050	0.002020	0.002040	0.002140	0.002070	0.002220	0.000449	0.000501	0.000717
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0.1	0.1
Reactor Coolant System Activity	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum activity	0.000595	0.000579	0.000614	0.000667	0.000608	0.000647	0.000627	0.000653	0.000690	0.000740	0.000733	0.000725
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



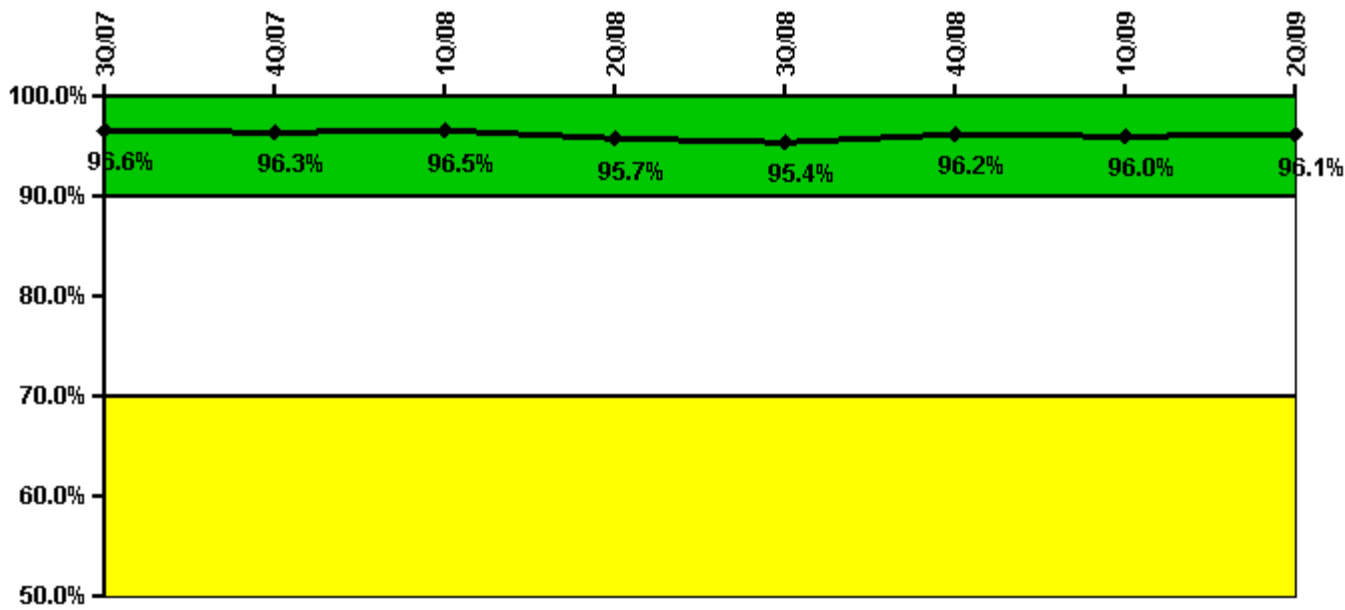
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum leakage	0.610	0.010	0.010	0.010	0.010	0.010	0.040	0.050	0.070	0.010	0.620	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	6.1	0.1	0.1	0.1	0.1	0.1	0.4	0.5	0.7	0.1	6.2	0.3
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	0.020	0.020	0.030	0.030	0.180	0.270	0.090	0.220	0.060	0.070	0.070	0.160
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.2	0.2	0.3	0.3	1.8	2.7	0.9	2.2	0.6	0.7	0.7	1.6

Licensee Comments: none

Drill/Exercise Performance



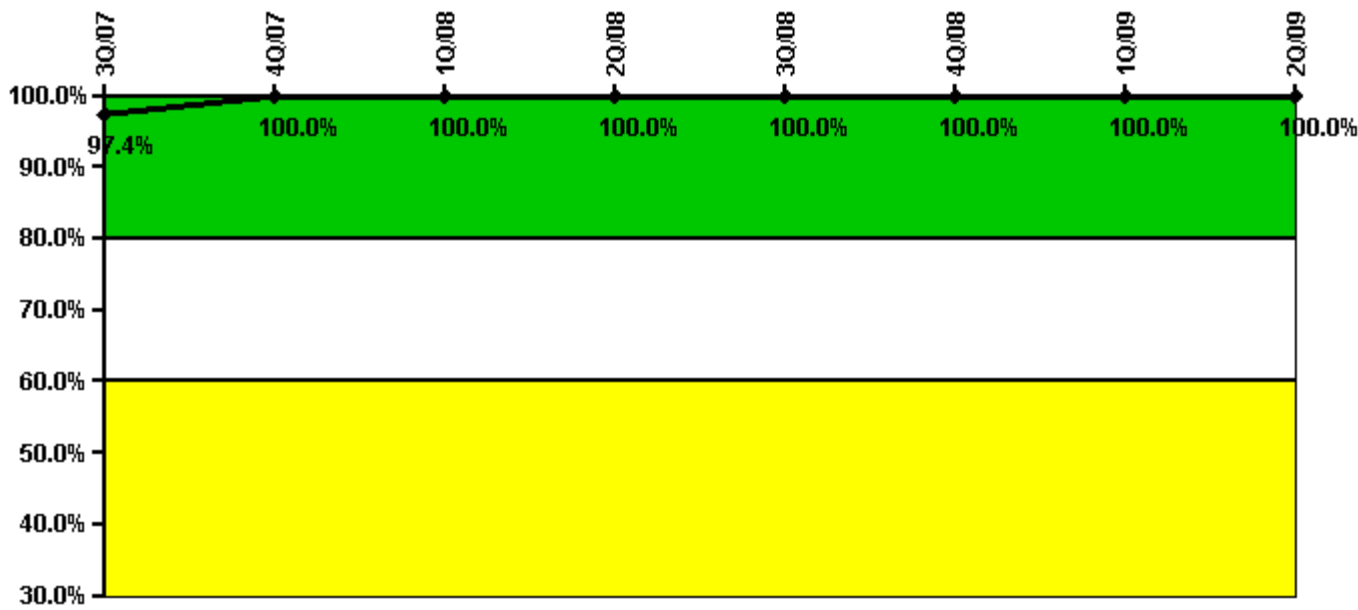
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful opportunities	72.0	66.0	28.0	50.0	90.0	74.0	22.0	38.0
Total opportunities	75.0	71.0	28.0	54.0	92.0	76.0	24.0	38.0
Indicator value	96.6%	96.3%	96.5%	95.7%	95.4%	96.2%	96.0%	96.1%

Licensee Comments: none

ERO Drill Participation



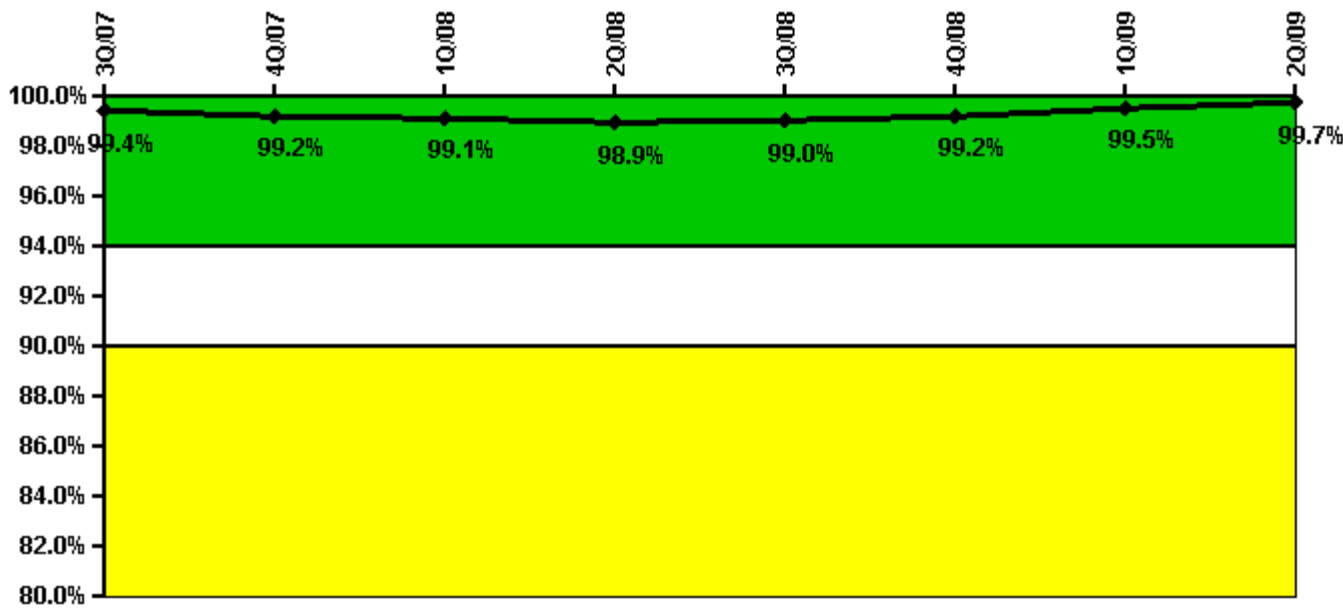
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Participating Key personnel	113.0	111.0	114.0	99.0	94.0	93.0	94.0	98.0
Total Key personnel	116.0	111.0	114.0	99.0	94.0	93.0	94.0	98.0
Indicator value	97.4%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



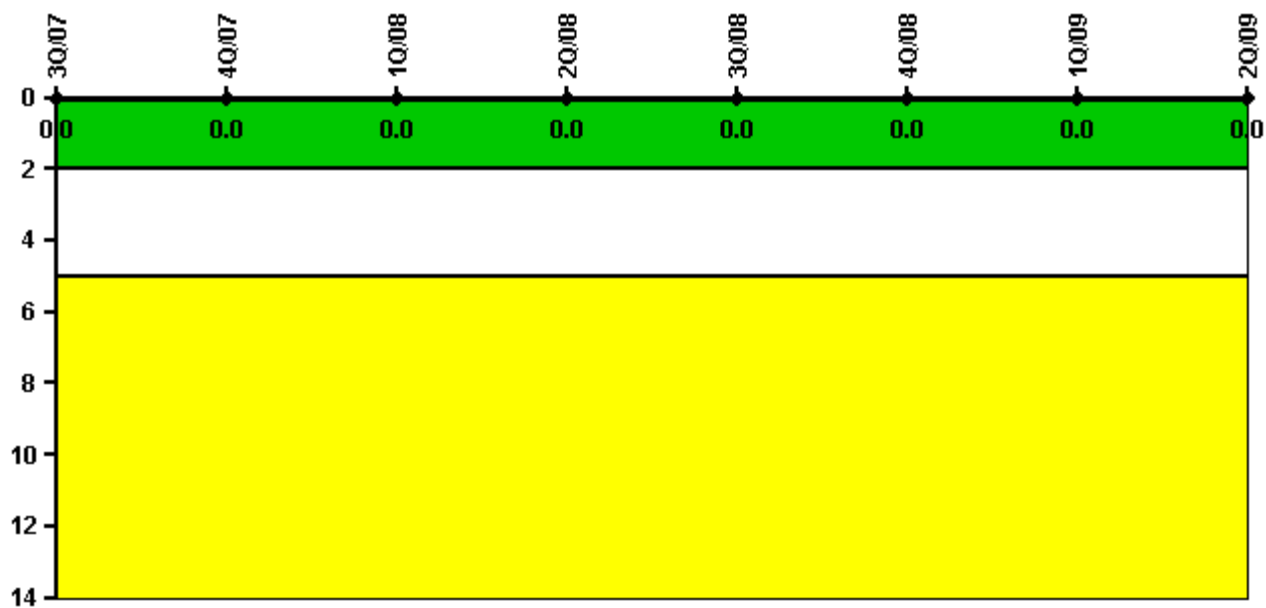
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful siren-tests	536	618	786	627	486	1220	1156	1200
Total sirens-tests	540	625	793	637	488	1225	1158	1204
Indicator value	99.4%	99.2%	99.1%	98.9%	99.0%	99.2%	99.5%	99.7%

Licensee Comments: none

Occupational Exposure Control Effectiveness



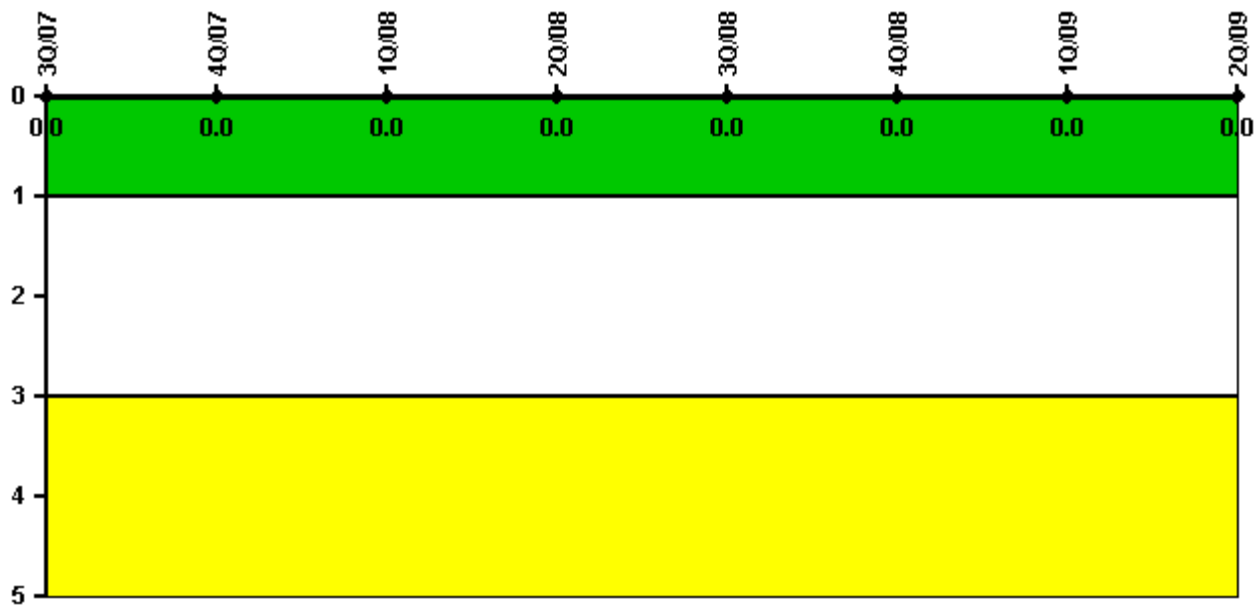
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

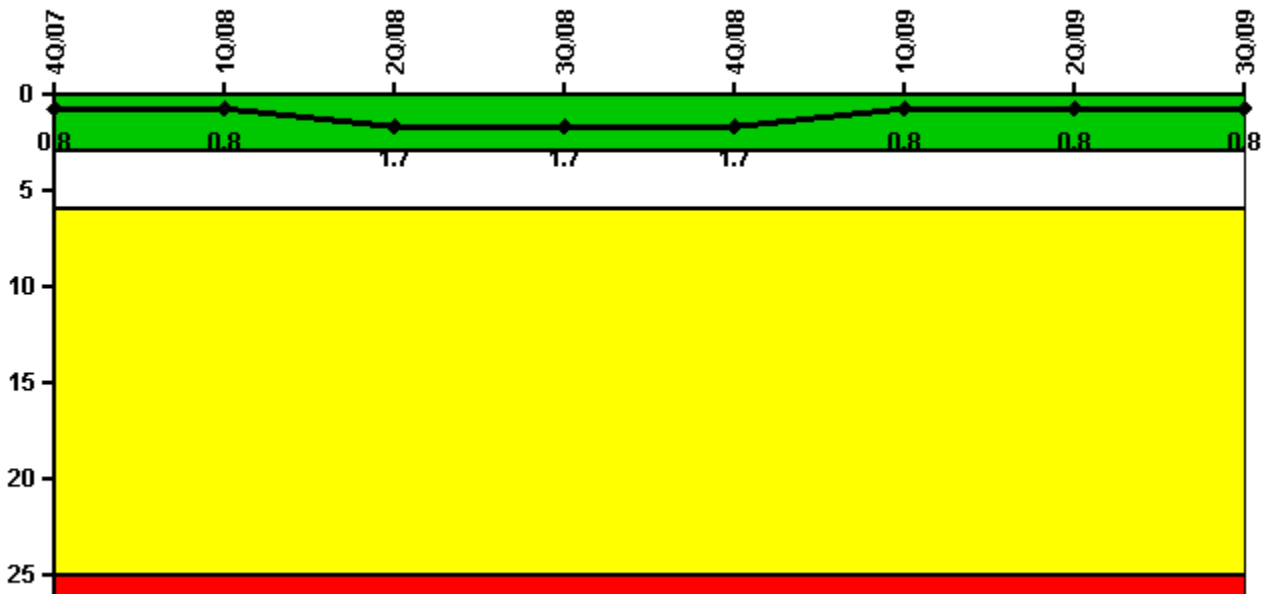
[Security](#) information not publicly available.

Indian Point 2

3Q/2009 Performance Indicators

Licensee's General Comments: MS05 (7/09): SSFF reported in LER-2009-003 on July 27, 2009, due to an inoperable 21 pressurizer back-up heater caused by an inoperable breaker due to a misaligned anti pump lever. The 21 pressurizer back-up heater is credited in TS 3.3.4 as a single train safety function for remote shutdown from the control room. MS05 (8/09): SSFF reported in LER-2009-004 on August 7, 2009, for an inoperable 23 charging pump due to an internal check valve failure. The 23 charging pump is credited in TS 3.3.4 as a single train safety function for remote shutdown from the control room.

Unplanned Scrams per 7000 Critical Hrs



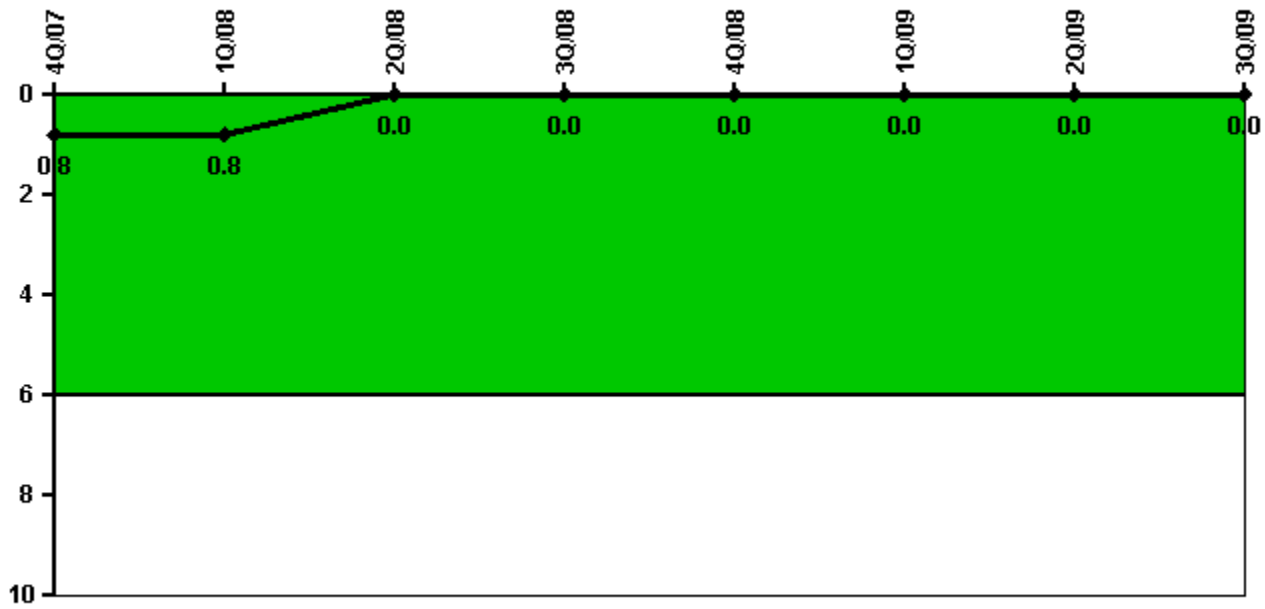
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0
Critical hours	2209.0	1989.3	1724.9	2208.0	2209.0	2159.0	2160.3	2208.0
Indicator value	0.8	0.8	1.7	1.7	1.7	0.8	0.8	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



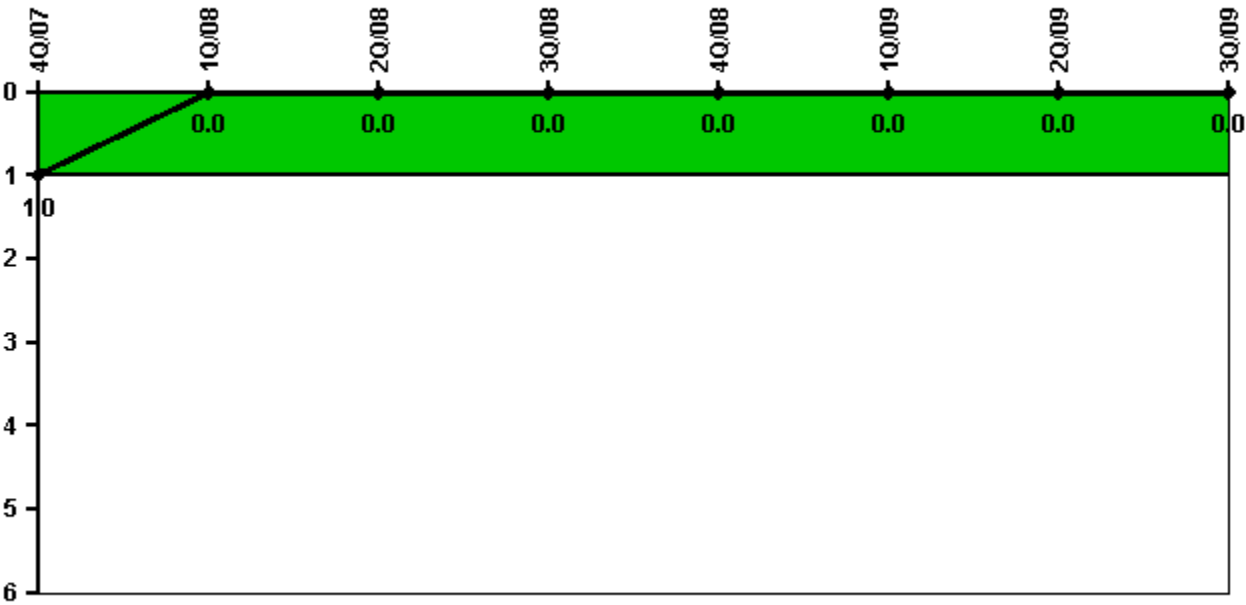
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	1989.3	1724.9	2208.0	2209.0	2159.0	2160.3	2208.0
Indicator value	0.8	0.8	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



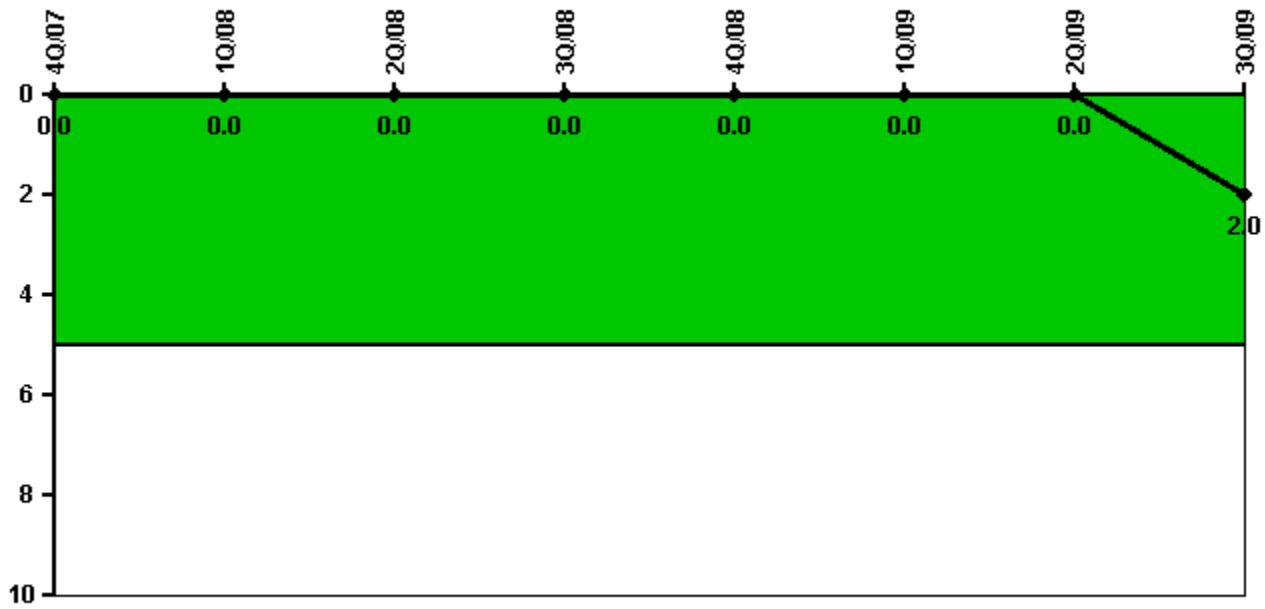
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	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	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



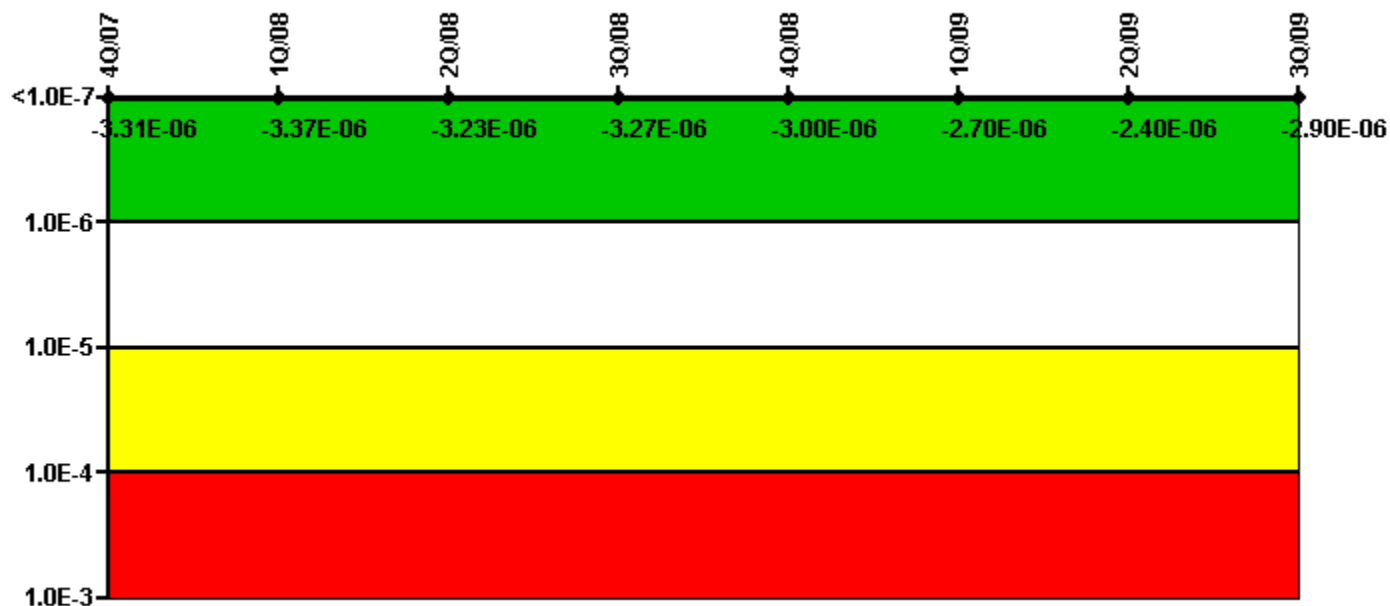
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



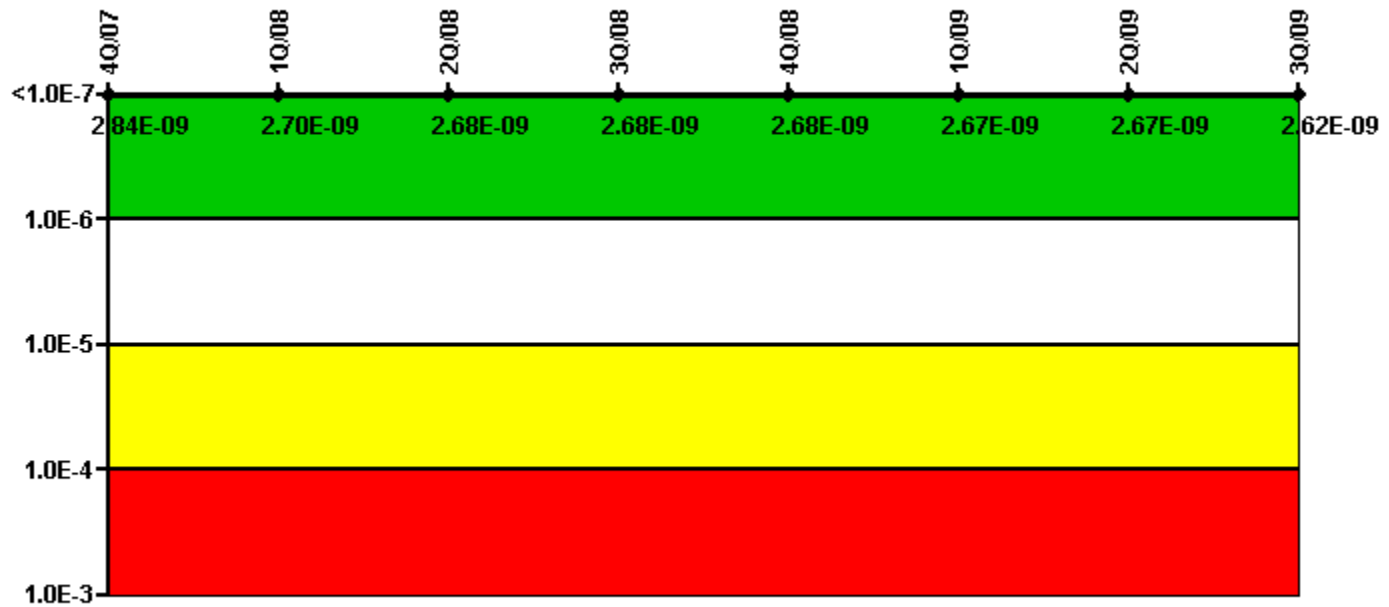
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	4.90E-07	5.30E-07	6.70E-07	6.30E-07	8.00E-07	1.10E-06	1.10E-06	6.00E-07
URI (ΔCDF)	-3.80E-06	-3.90E-06	-3.90E-06	-3.90E-06	-3.80E-06	-3.80E-06	-3.50E-06	-3.50E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.31E-06	-3.37E-06	-3.23E-06	-3.27E-06	-3.00E-06	-2.70E-06	-2.40E-06	-2.90E-06

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



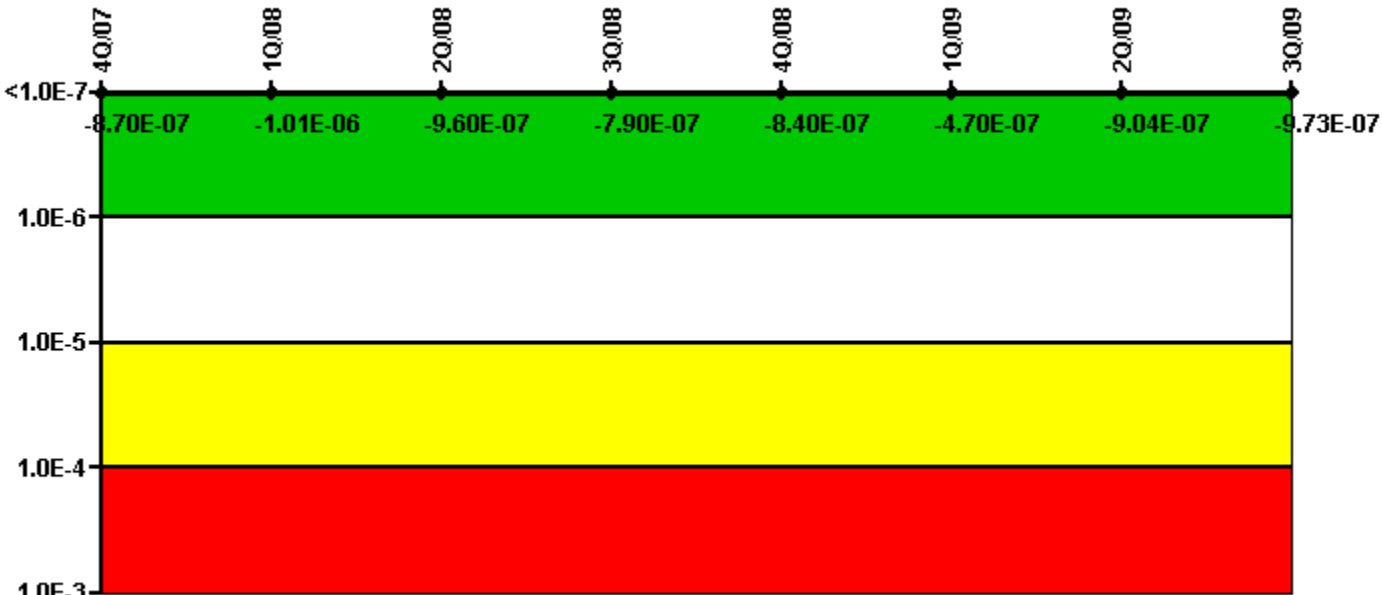
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	4.40E-11	-9.80E-11	-1.20E-10	-1.20E-10	-1.20E-10	-1.30E-10	-1.30E-10	-1.80E-10
URI (ΔCDF)	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.84E-09	2.70E-09	2.68E-09	2.68E-09	2.68E-09	2.67E-09	2.67E-09	2.62E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



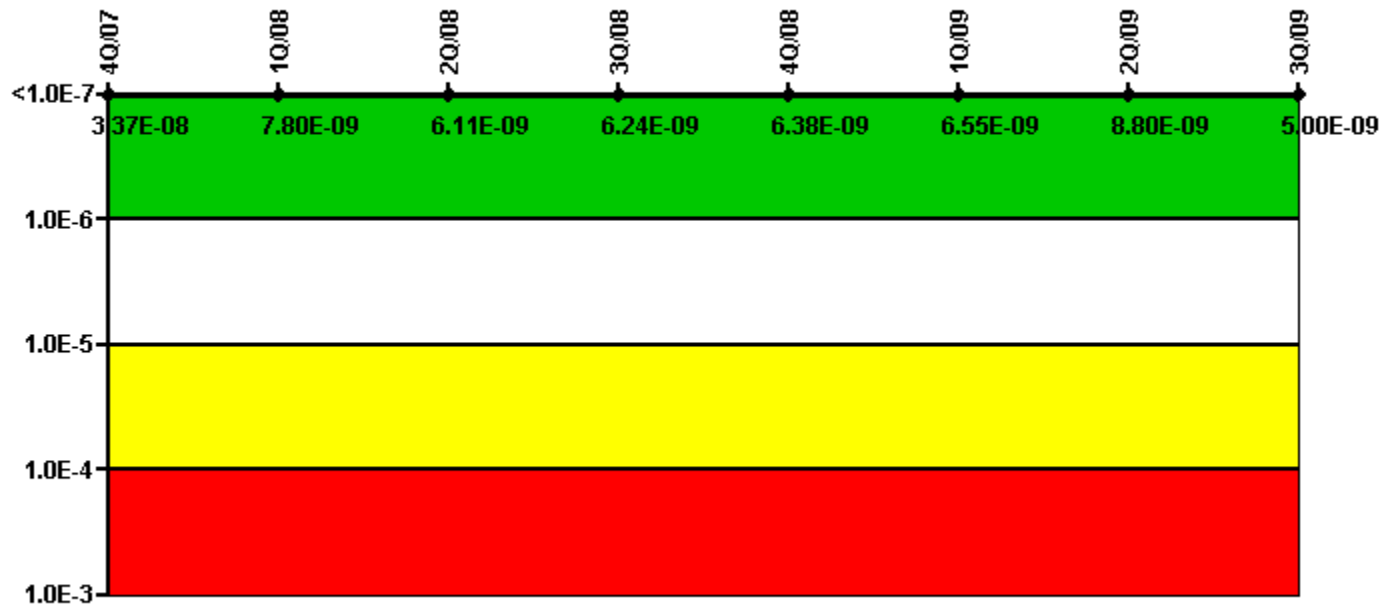
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	2.30E-07	1.90E-07	2.40E-07	4.10E-07	3.60E-07	6.30E-07	9.60E-08	-1.30E-08
URI (ΔCDF)	-1.10E-06	-1.20E-06	-1.20E-06	-1.20E-06	-1.20E-06	-1.10E-06	-1.00E-06	-9.60E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.70E-07	-1.01E-06	-9.60E-07	-7.90E-07	-8.40E-07	-4.70E-07	-9.04E-07	-9.73E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



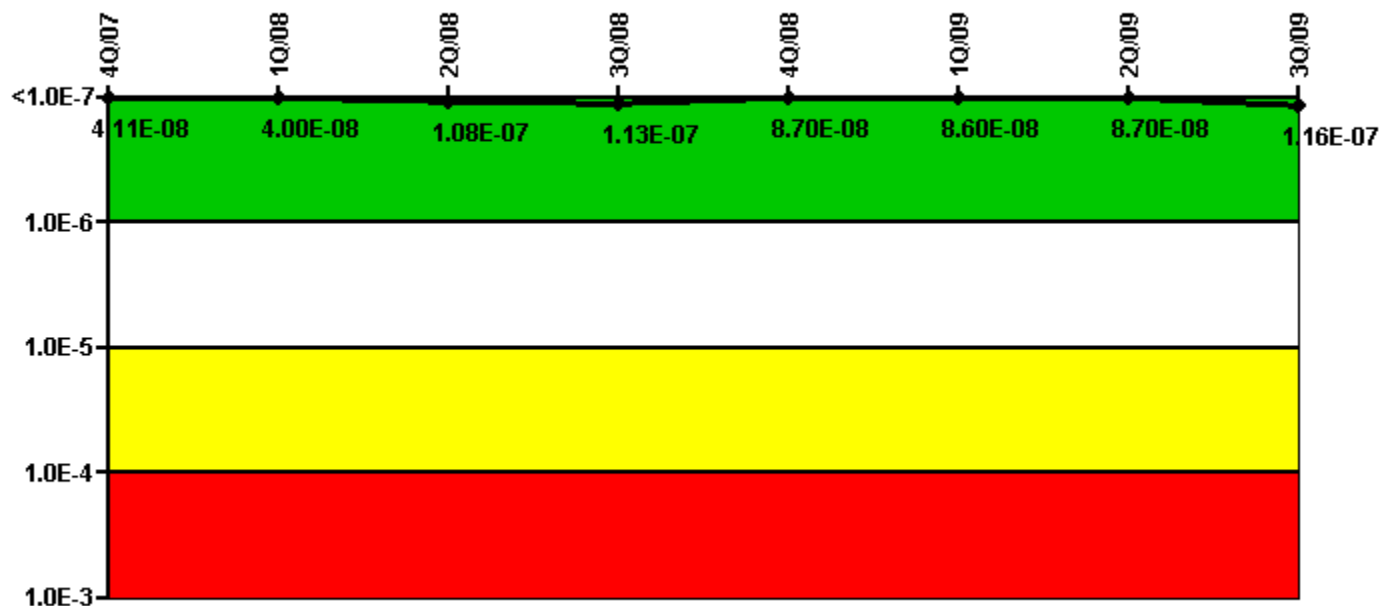
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-1.30E-09	-1.10E-09	-9.90E-10	-9.60E-10	-9.20E-10	-9.50E-10	-1.20E-09	-6.00E-09
URI (ΔCDF)	3.50E-08	8.90E-09	7.10E-09	7.20E-09	7.30E-09	7.50E-09	1.00E-08	1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.37E-08	7.80E-09	6.11E-09	6.24E-09	6.38E-09	6.55E-09	8.80E-09	5.00E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



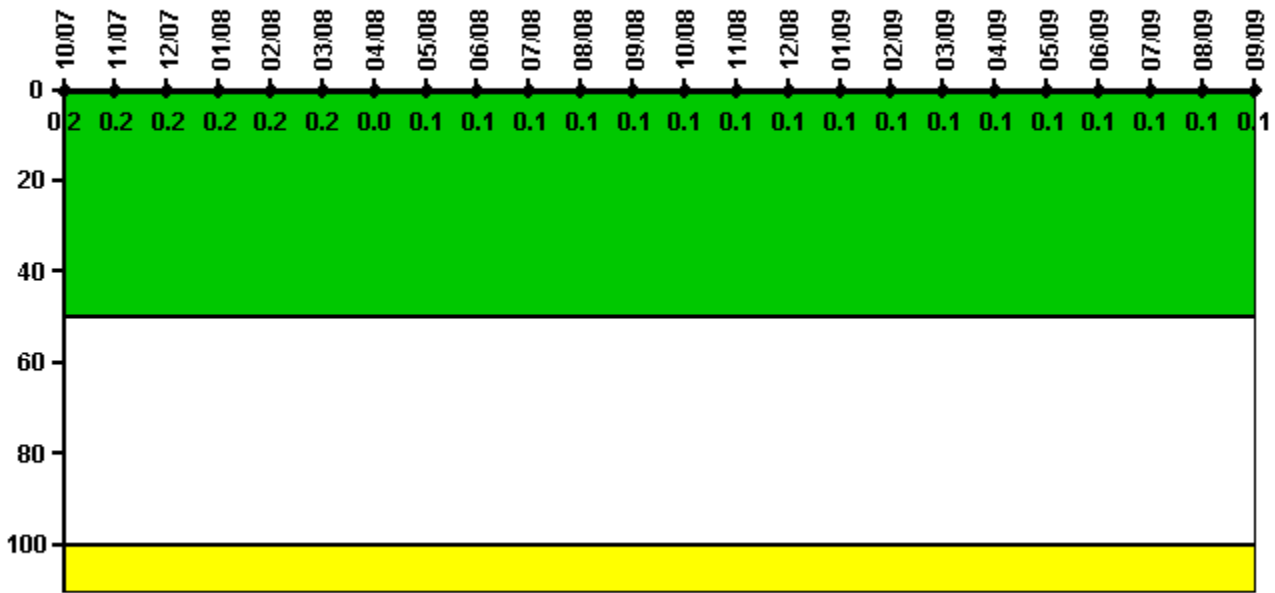
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	-7.90E-09	-6.00E-09	3.70E-08	4.20E-08	1.60E-08	1.50E-08	1.40E-08	1.60E-08
URI (ΔCDF)	4.90E-08	4.60E-08	7.10E-08	7.10E-08	7.10E-08	7.10E-08	7.30E-08	1.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.11E-08	4.00E-08	1.08E-07	1.13E-07	8.70E-08	8.60E-08	8.70E-08	1.16E-07

Licensee Comments: none

Reactor Coolant System Activity



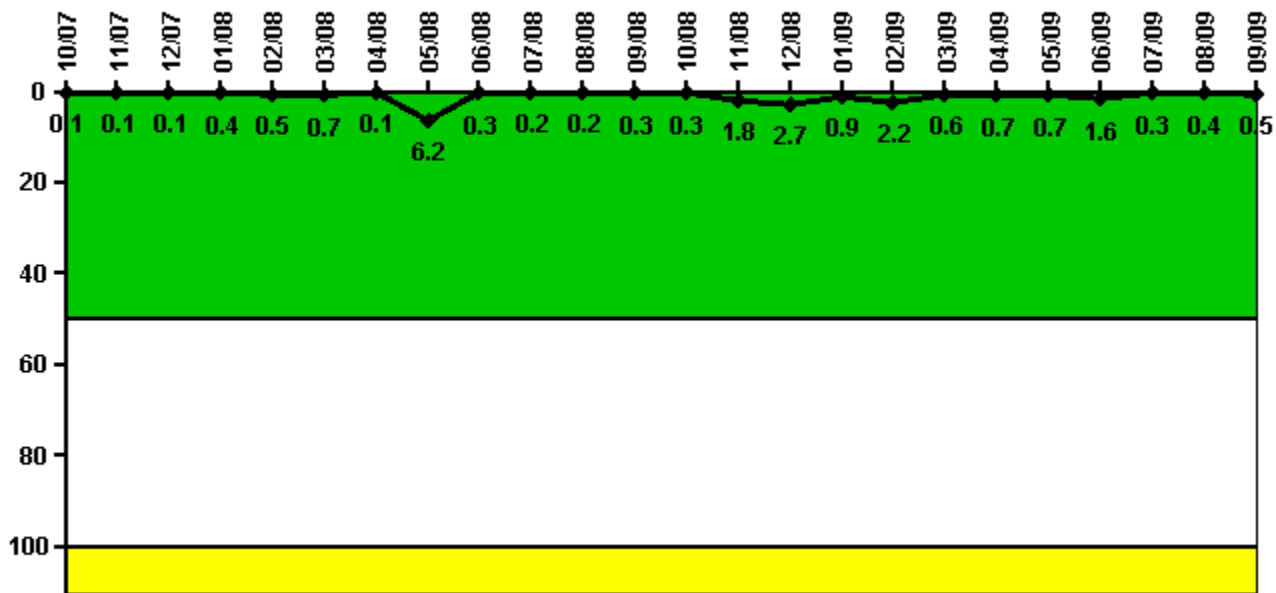
Thresholds: White > 50.0 Yellow > 100.0

Notes

[illegible]

Licensee Comments: none

Reactor Coolant System Leakage



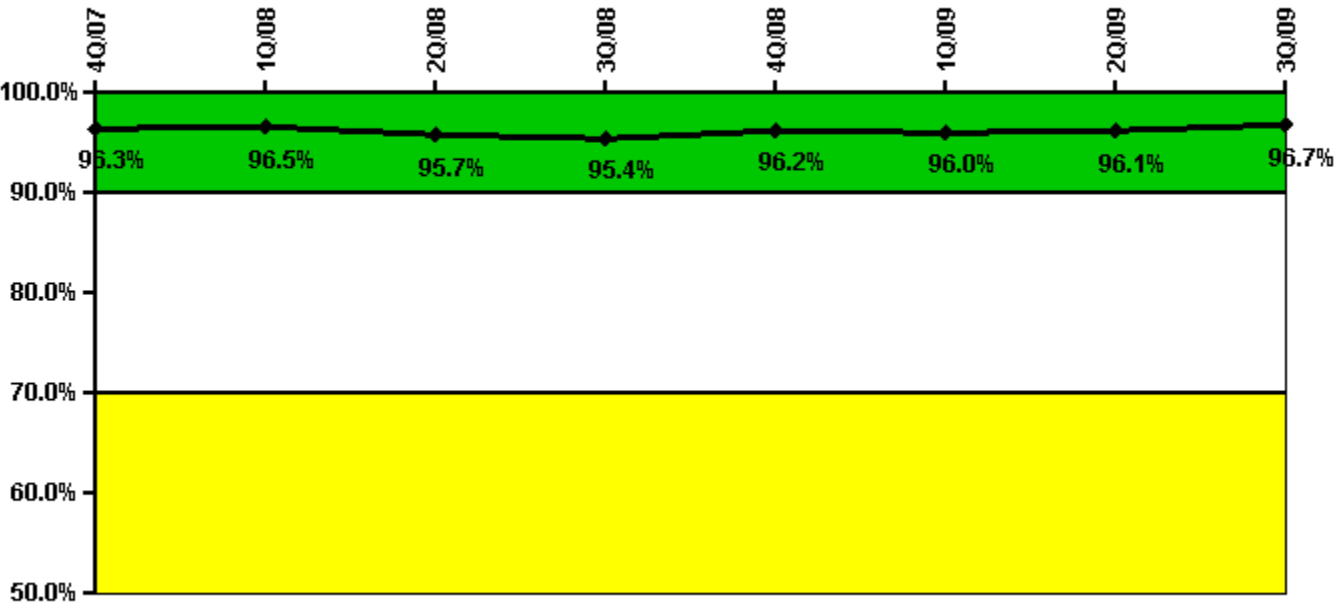
Thresholds: White > 50.0 Yellow > 100.0

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	0.010	0.010	0.010	0.040	0.050	0.070	0.010	0.620	0.030	0.020	0.020	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	0.1	0.1	0.1	0.4	0.5	0.7	0.1	6.2	0.3	0.2	0.2	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	0.030	0.180	0.270	0.090	0.220	0.060	0.070	0.070	0.160	0.030	0.040	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.3	1.8	2.7	0.9	2.2	0.6	0.7	0.7	1.6	0.3	0.4	0.5

Licensee Comments: none

Drill/Exercise Performance



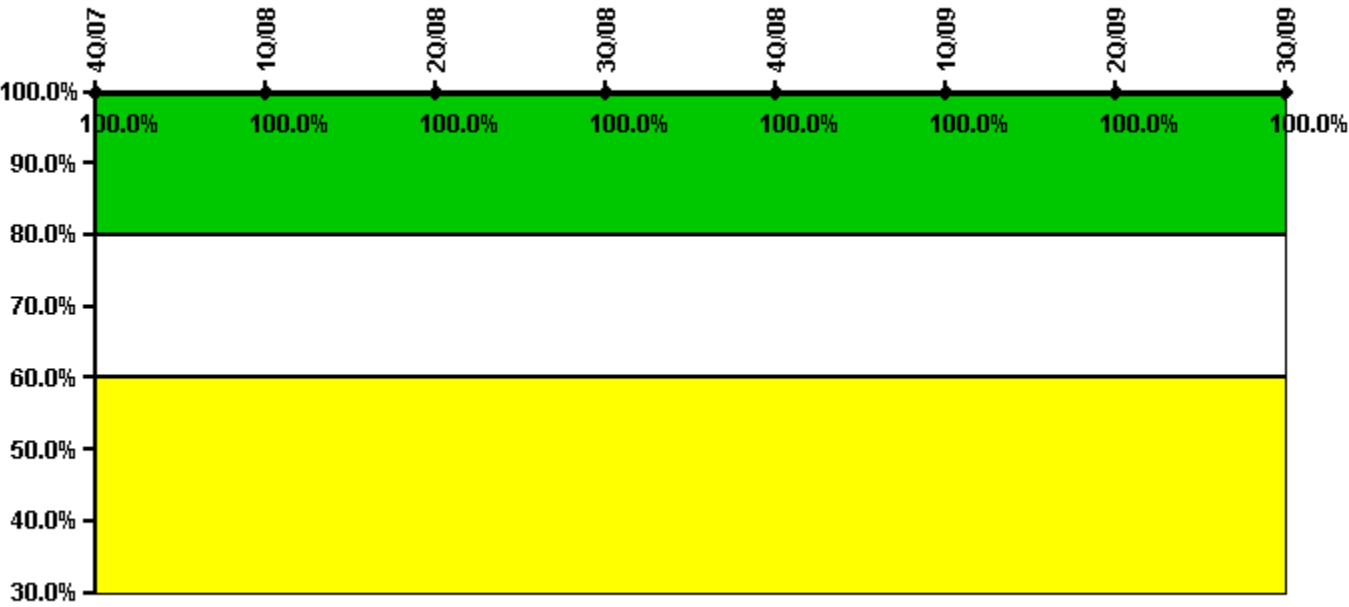
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful opportunities	66.0	28.0	50.0	90.0	74.0	22.0	38.0	95.0
Total opportunities	71.0	28.0	54.0	92.0	76.0	24.0	38.0	96.0
Indicator value	96.3%	96.5%	95.7%	95.4%	96.2%	96.0%	96.1%	96.7%

Licensee Comments: none

ERO Drill Participation



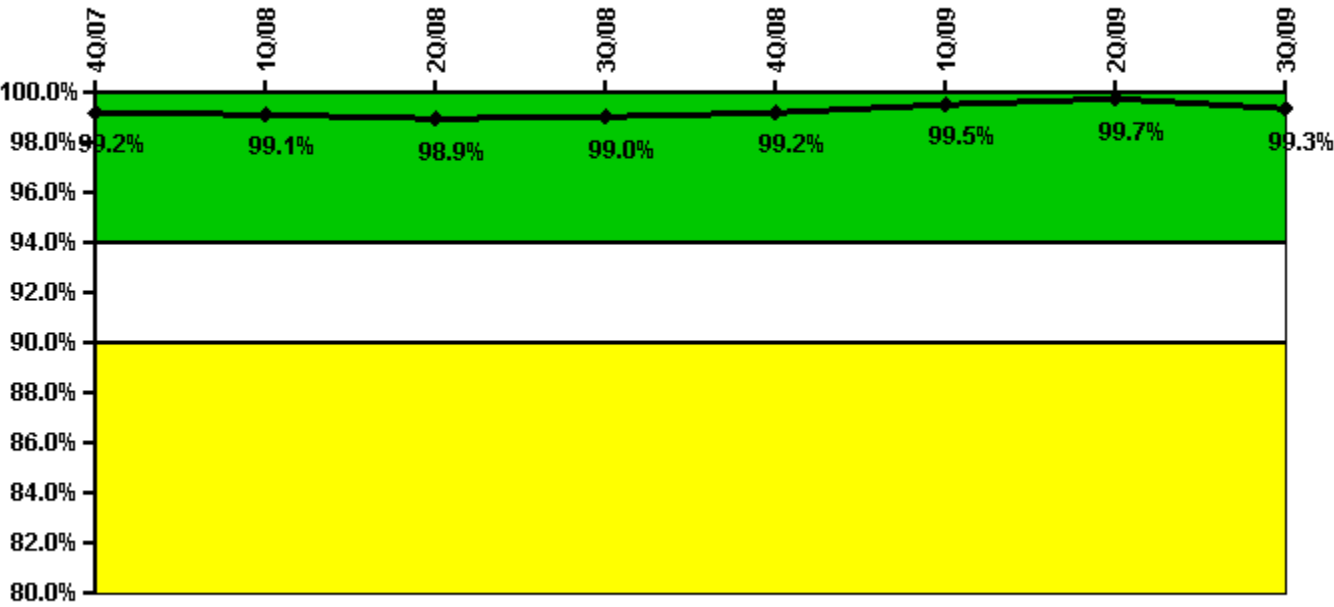
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Participating Key personnel	111.0	114.0	99.0	94.0	93.0	94.0	98.0	100.0
Total Key personnel	111.0	114.0	99.0	94.0	93.0	94.0	98.0	100.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



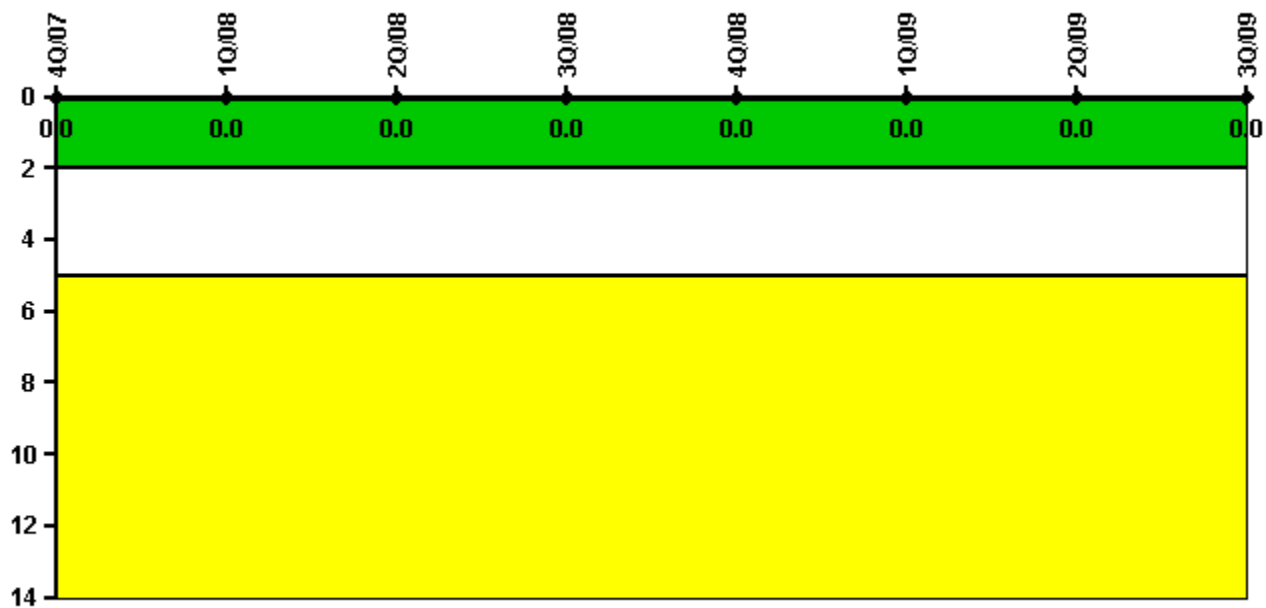
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful siren-tests	618	786	627	486	1220	1156	1200	1159
Total sirens-tests	625	793	637	488	1225	1158	1204	1181
Indicator value	99.2%	99.1%	98.9%	99.0%	99.2%	99.5%	99.7%	99.3%

Licensee Comments: none

Occupational Exposure Control Effectiveness



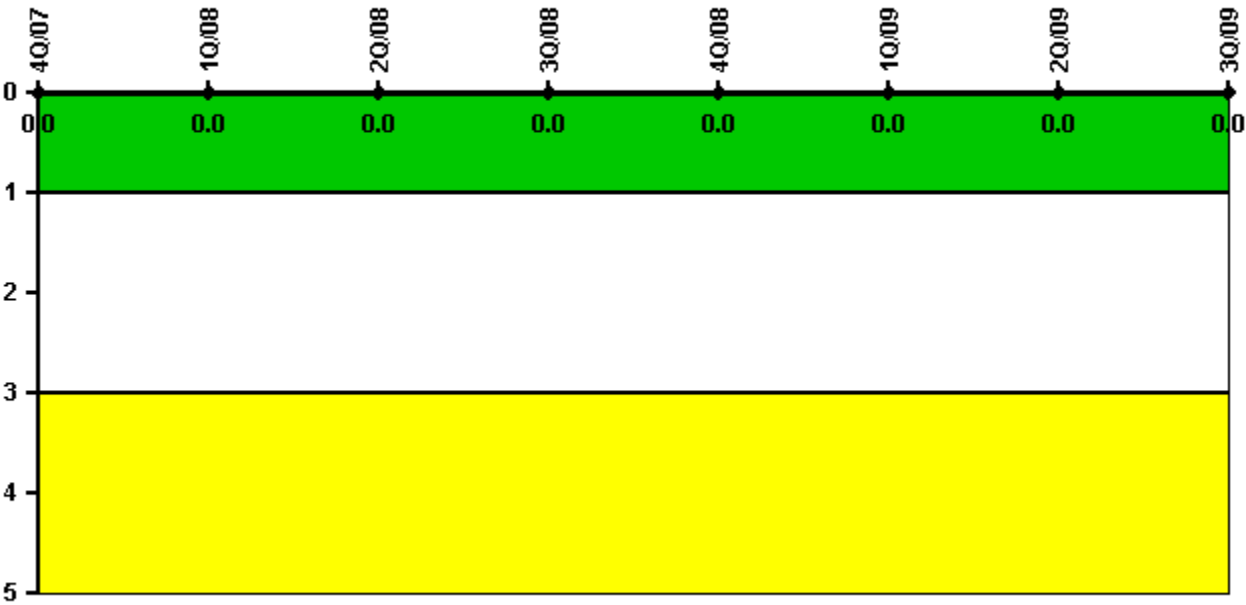
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

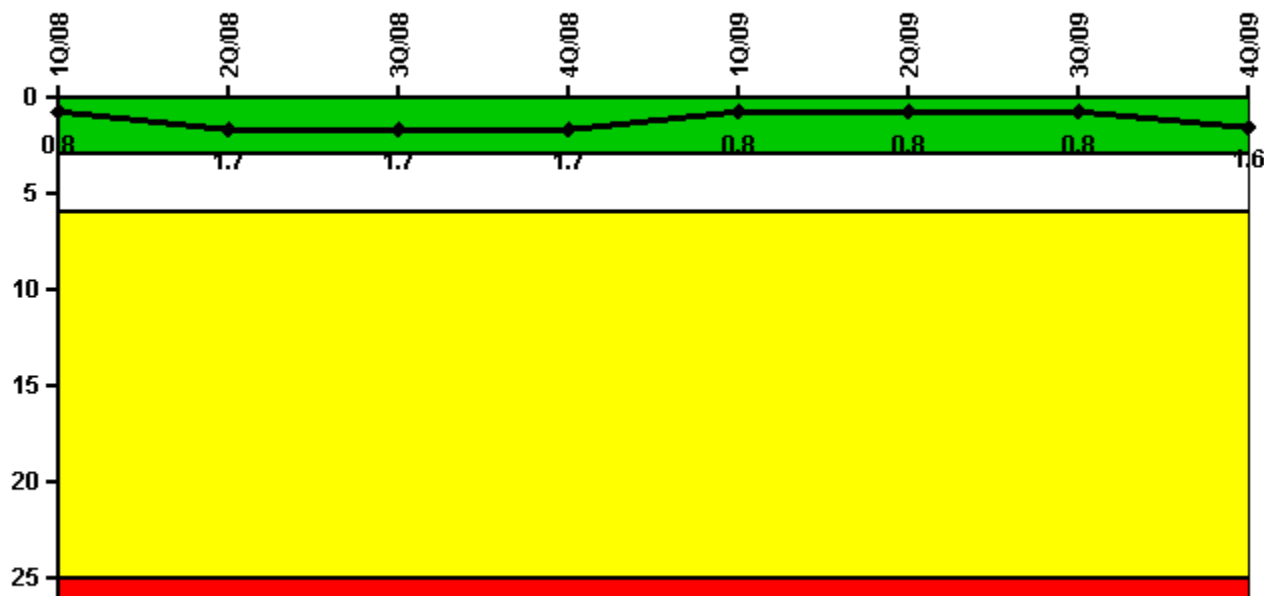
[Security](#) information not publicly available.

Indian Point 2

4Q/2009 Performance Indicators

Licensee's General Comments: IE01: On November 2, 2009, a automatic reactor trip was initiated as a result of a turbine-generator trip due to a Generator Primary Lockout relay 86P trip caused by a failure of the Generrex exciter 15 volt power supply. IE03: On November 4, 2009, the reactor was made critical after the reactor trip on November 2, 2009, and on November 6, the power ascension was halted due to Generrex exciter cubical trouble alarm and the reactor was subsequently shutdown.

Unplanned Scrams per 7000 Critical Hrs



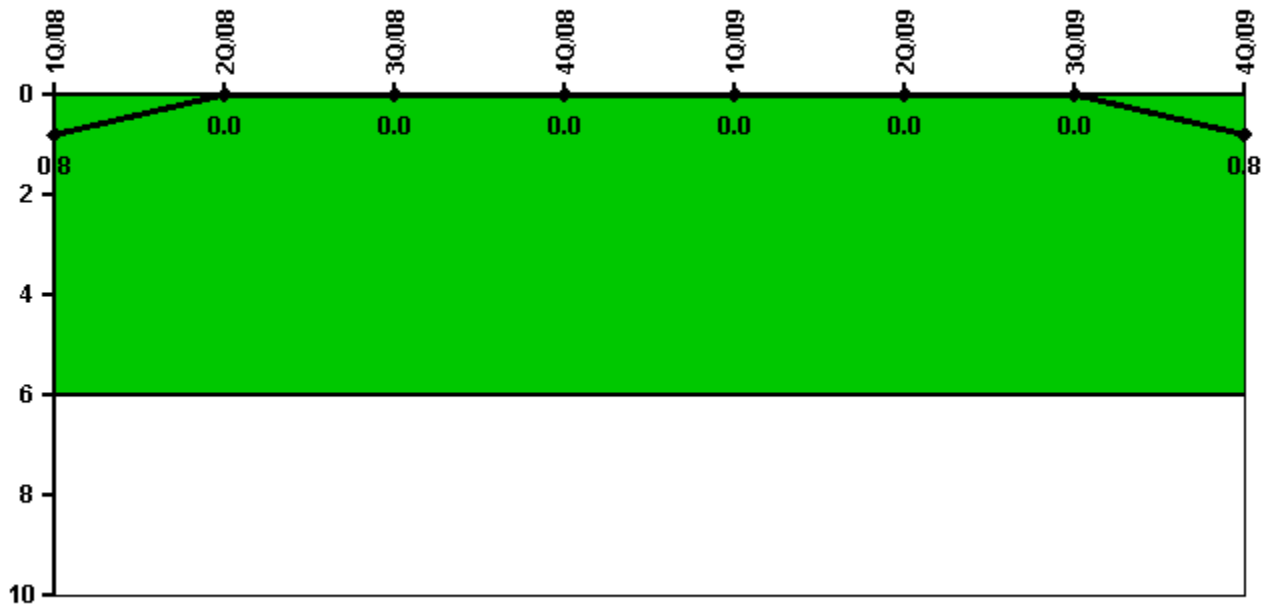
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	1.0
Critical hours	1989.3	1724.9	2208.0	2209.0	2159.0	2160.3	2208.0	2177.4
Indicator value	0.8	1.7	1.7	1.7	0.8	0.8	0.8	1.6

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



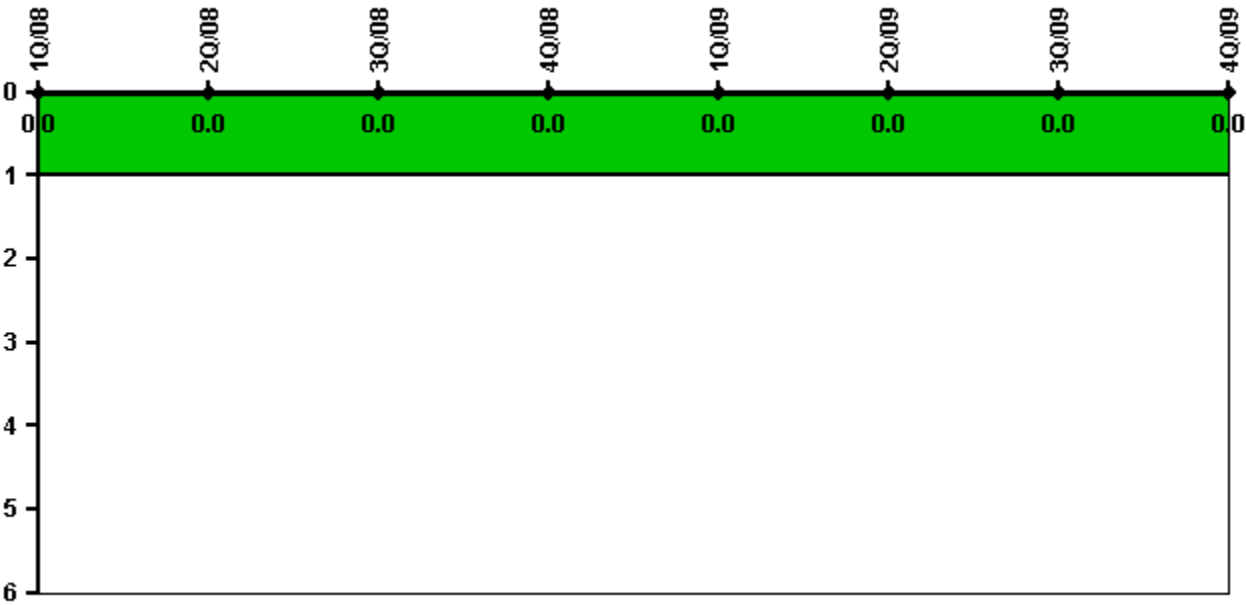
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	1989.3	1724.9	2208.0	2209.0	2159.0	2160.3	2208.0	2177.4
Indicator value	0.8	0	0	0	0	0	0	0.8

Licensee Comments: none

Unplanned Scrams with Complications



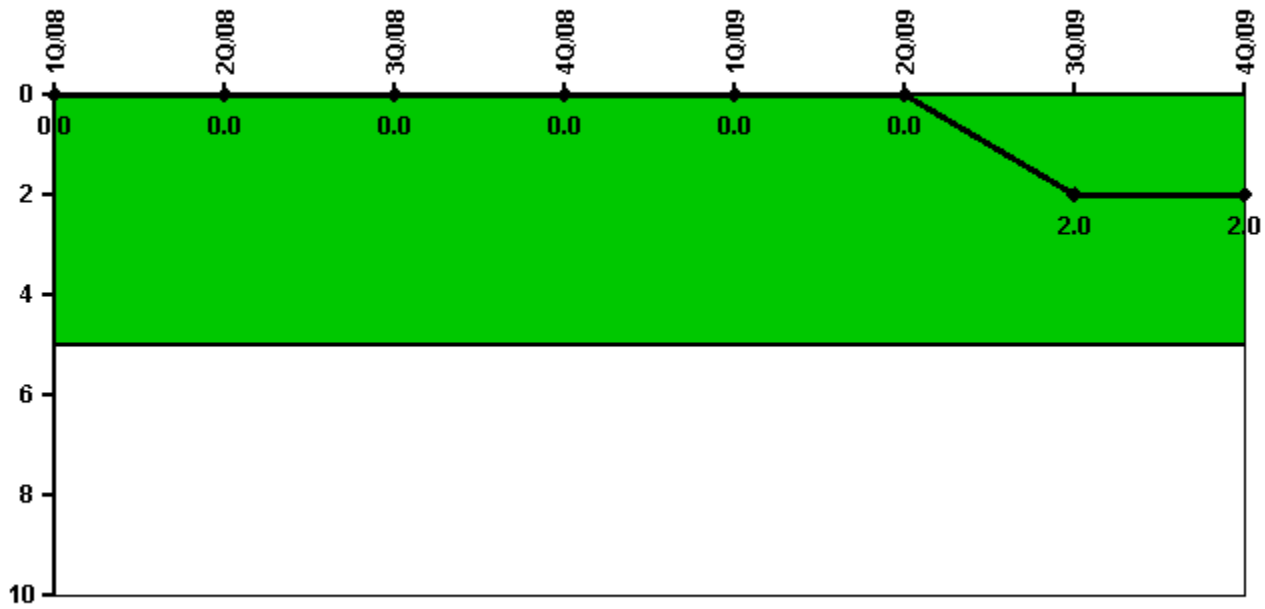
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



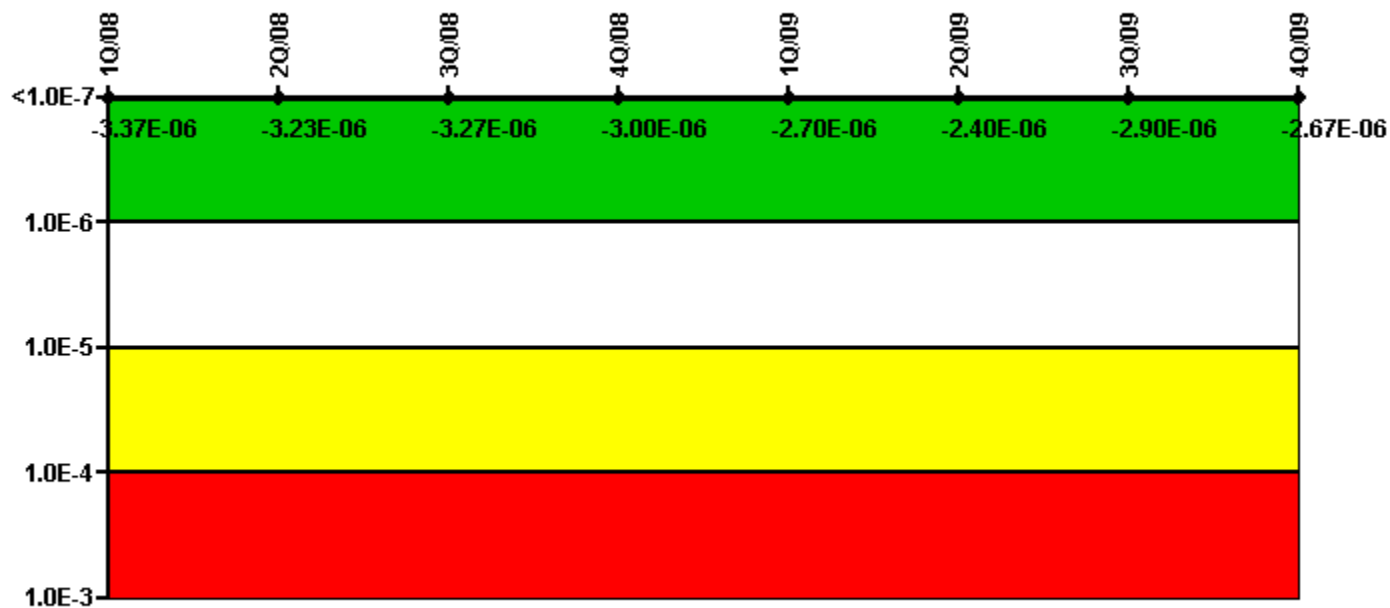
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



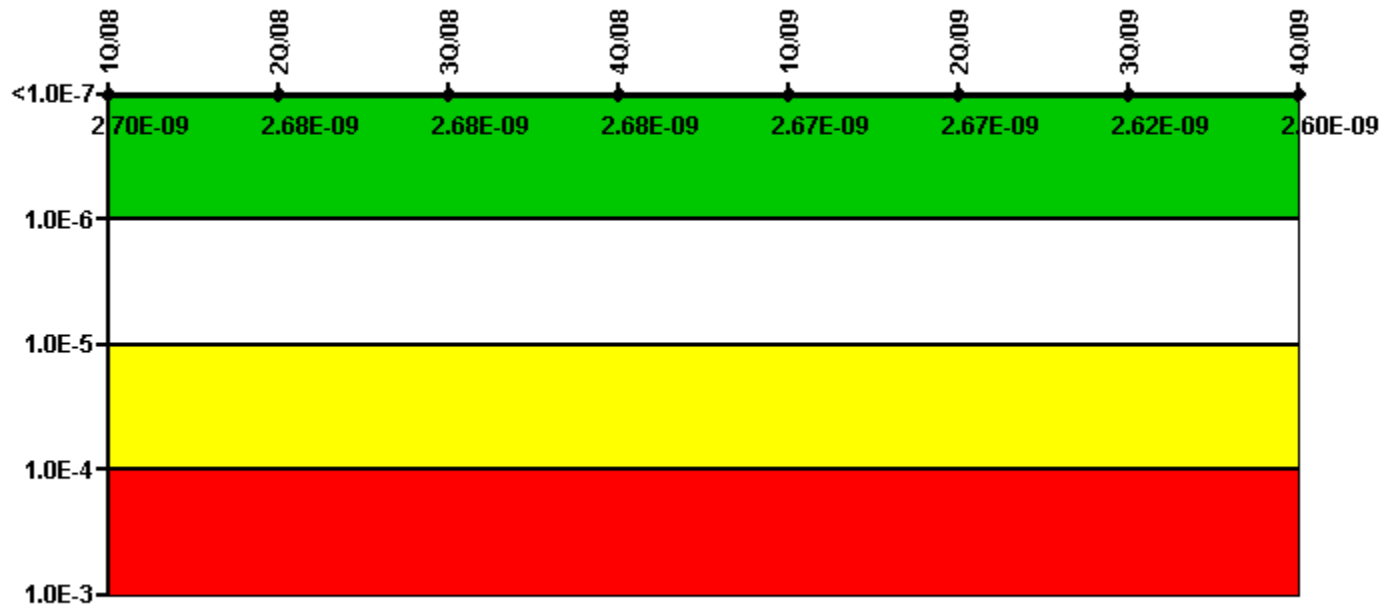
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	5.30E-07	6.70E-07	6.30E-07	8.00E-07	1.10E-06	1.10E-06	6.00E-07	7.30E-07
URI (ΔCDF)	-3.90E-06	-3.90E-06	-3.90E-06	-3.80E-06	-3.80E-06	-3.50E-06	-3.50E-06	-3.40E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.37E-06	-3.23E-06	-3.27E-06	-3.00E-06	-2.70E-06	-2.40E-06	-2.90E-06	-2.67E-06

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



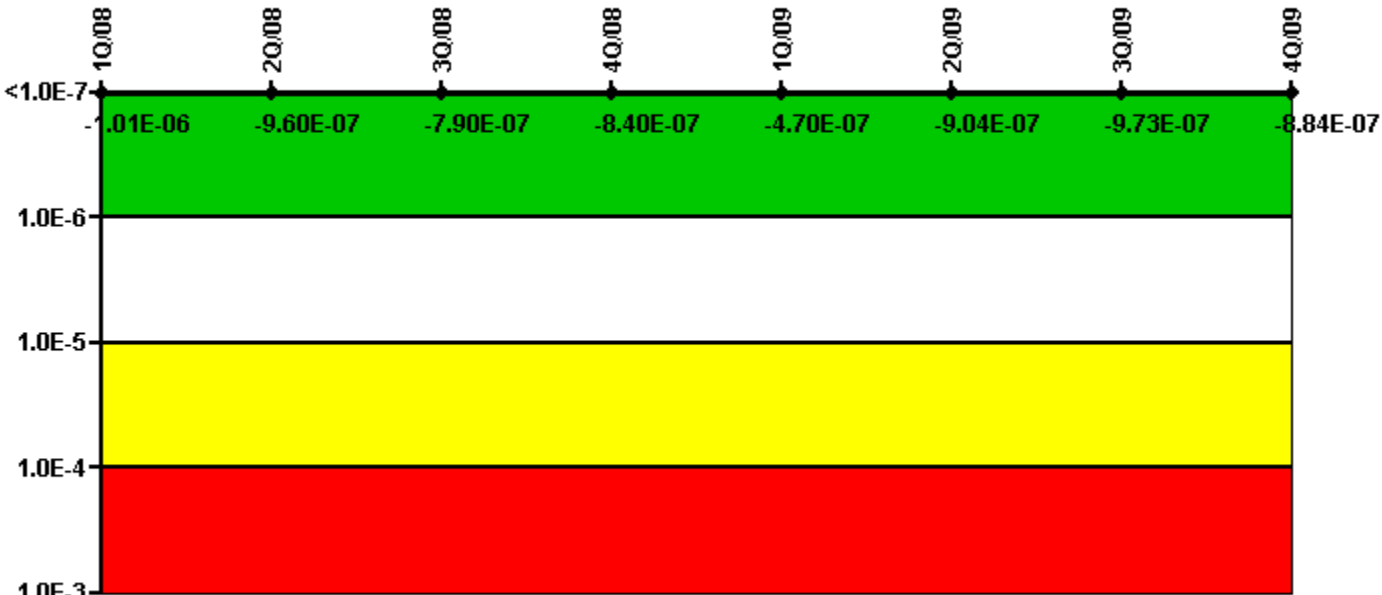
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-9.80E-11	-1.20E-10	-1.20E-10	-1.20E-10	-1.30E-10	-1.30E-10	-1.80E-10	-2.00E-10
URI (Δ CDF)	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.70E-09	2.68E-09	2.68E-09	2.68E-09	2.67E-09	2.67E-09	2.62E-09	2.60E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



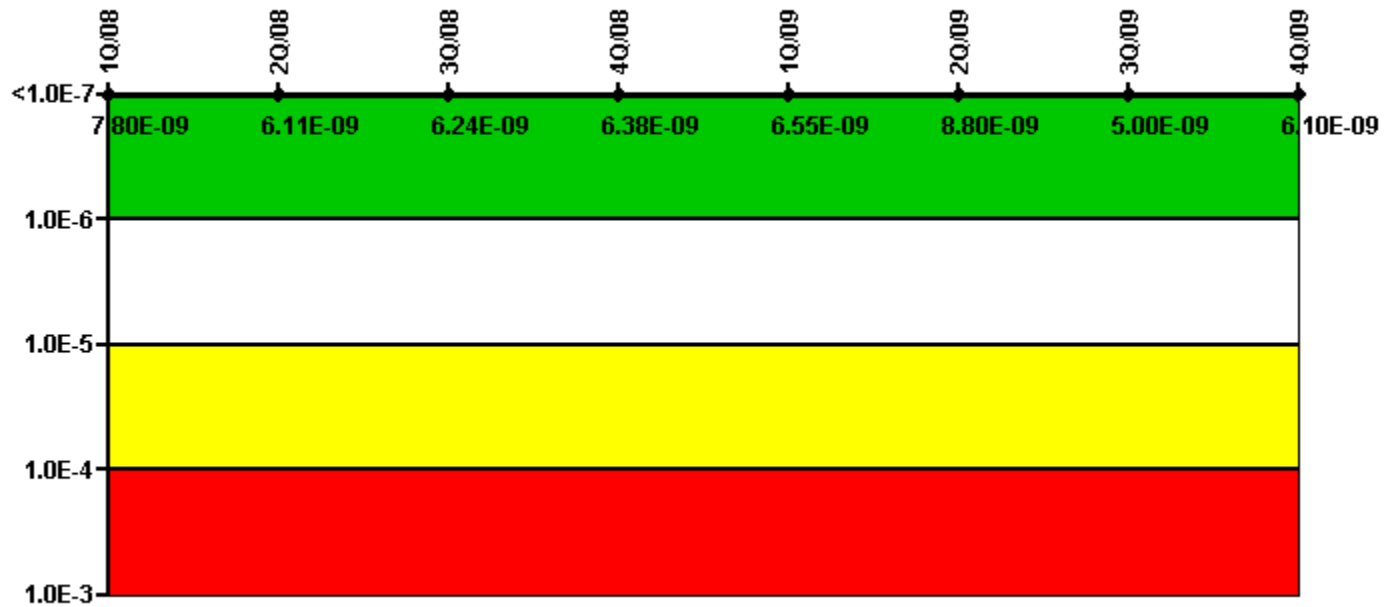
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	1.90E-07	2.40E-07	4.10E-07	3.60E-07	6.30E-07	9.60E-08	-1.30E-08	2.60E-08
URI (ΔCDF)	-1.20E-06	-1.20E-06	-1.20E-06	-1.20E-06	-1.10E-06	-1.00E-06	-9.60E-07	-9.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.01E-06	-9.60E-07	-7.90E-07	-8.40E-07	-4.70E-07	-9.04E-07	-9.73E-07	-8.84E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



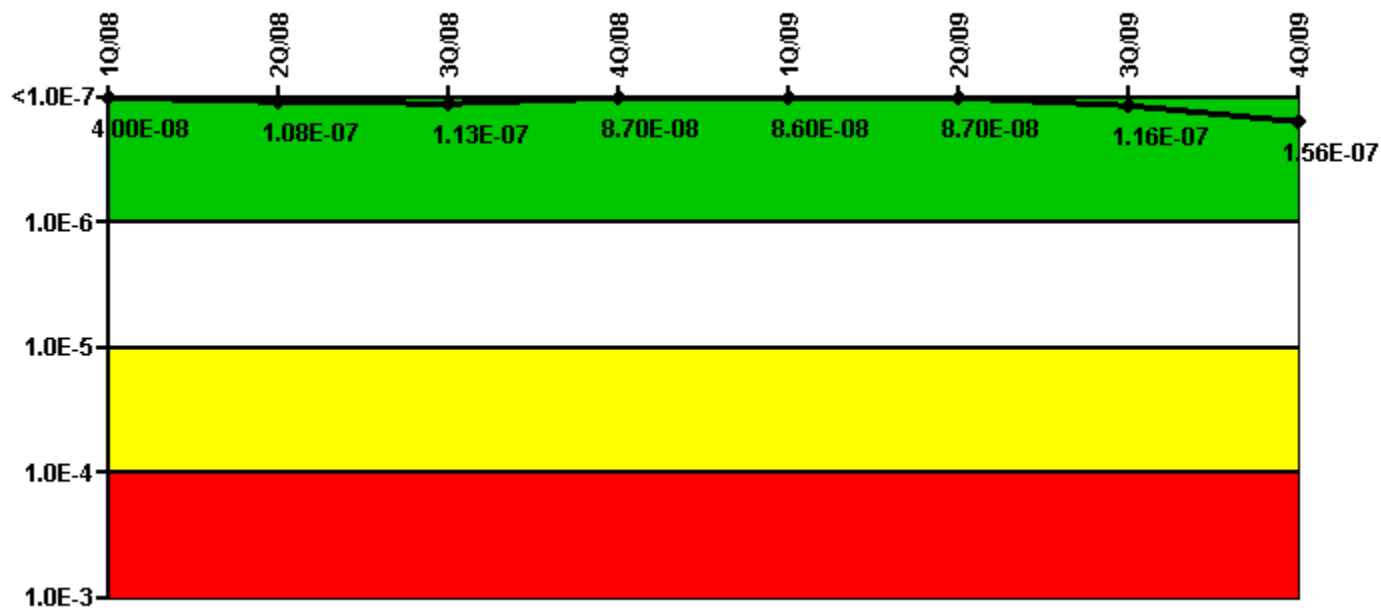
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	-1.10E-09	-9.90E-10	-9.60E-10	-9.20E-10	-9.50E-10	-1.20E-09	-6.00E-09	-5.90E-09
URI (ΔCDF)	8.90E-09	7.10E-09	7.20E-09	7.30E-09	7.50E-09	1.00E-08	1.10E-08	1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.80E-09	6.11E-09	6.24E-09	6.38E-09	6.55E-09	8.80E-09	5.00E-09	6.10E-09

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



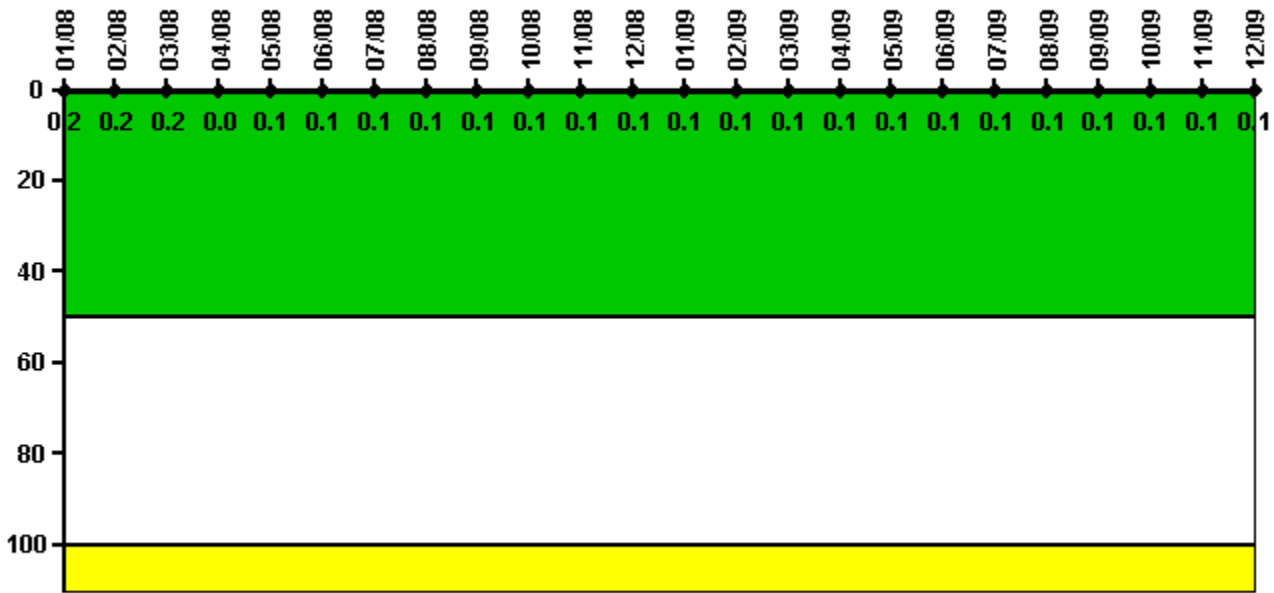
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	-6.00E-09	3.70E-08	4.20E-08	1.60E-08	1.50E-08	1.40E-08	1.60E-08	5.70E-08
URI (ΔCDF)	4.60E-08	7.10E-08	7.10E-08	7.10E-08	7.10E-08	7.30E-08	1.00E-07	9.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.00E-08	1.08E-07	1.13E-07	8.70E-08	8.60E-08	8.70E-08	1.16E-07	1.56E-07

Licensee Comments: none

Reactor Coolant System Activity



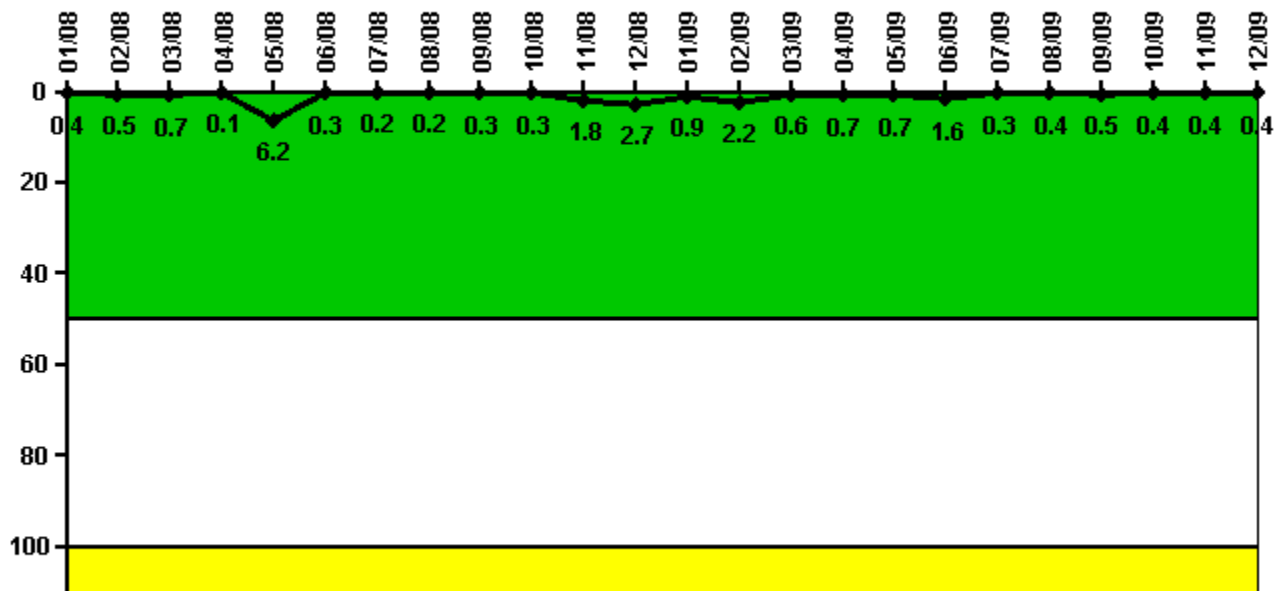
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum activity	0.002140	0.002070	0.002220	0.000449	0.000501	0.000717	0.000595	0.000579	0.000614	0.000667	0.000608	0.000647
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.2	0.2	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum activity	0.000627	0.000653	0.000690	0.000740	0.000733	0.000725	0.000809	0.000816	0.000795	0.000839	0.000789	0.000918
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



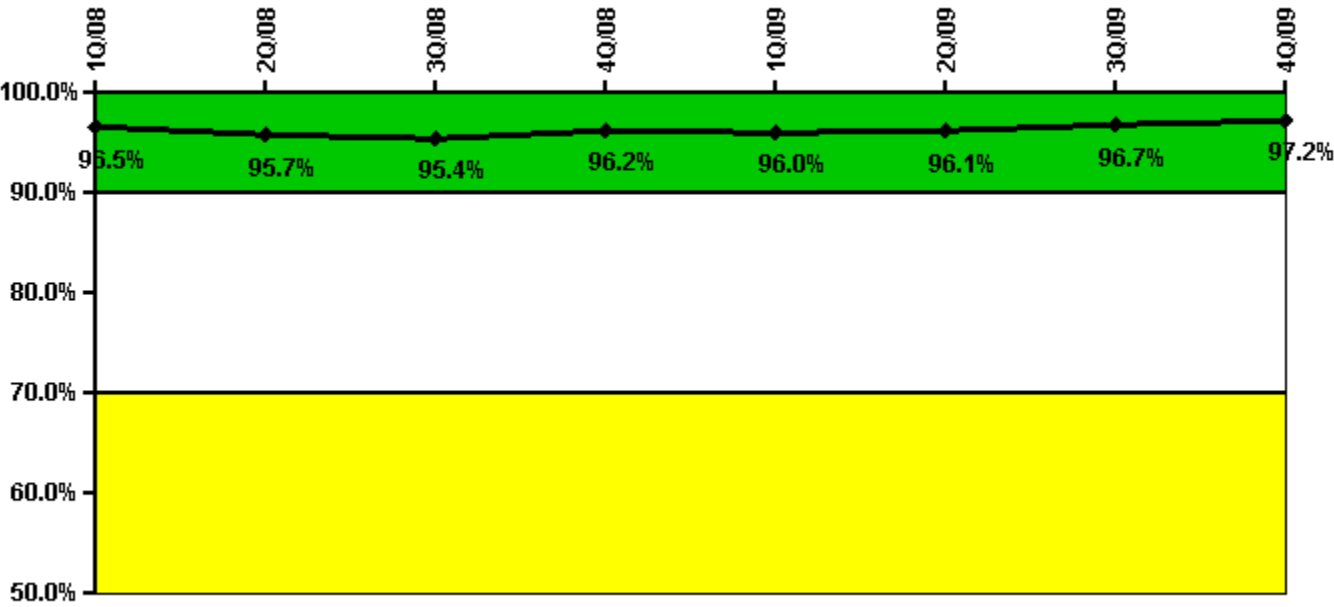
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum leakage	0.040	0.050	0.070	0.010	0.620	0.030	0.020	0.020	0.030	0.030	0.180	0.270
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.4	0.5	0.7	0.1	6.2	0.3	0.2	0.2	0.3	0.3	1.8	2.7
Reactor Coolant System Leakage	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum leakage	0.090	0.220	0.060	0.070	0.070	0.160	0.030	0.040	0.050	0.040	0.040	0.040
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.9	2.2	0.6	0.7	0.7	1.6	0.3	0.4	0.5	0.4	0.4	0.4

Licensee Comments: none

Drill/Exercise Performance



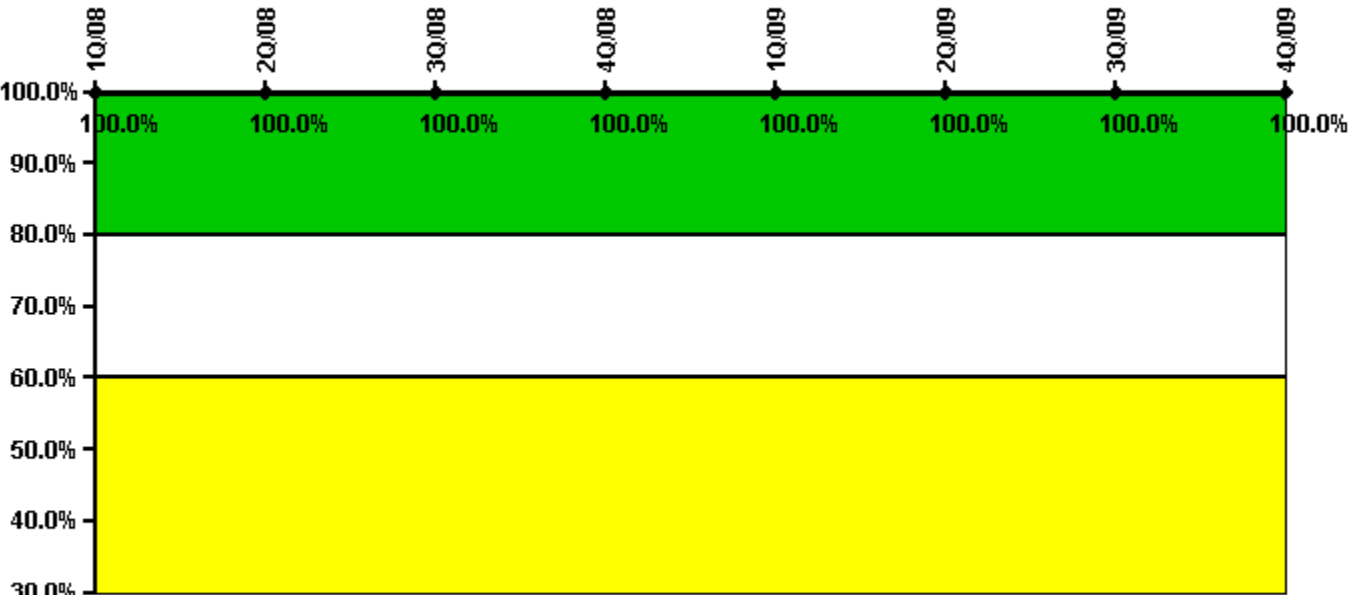
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful opportunities	28.0	50.0	90.0	74.0	22.0	38.0	95.0	62.0
Total opportunities	28.0	54.0	92.0	76.0	24.0	38.0	96.0	64.0
Indicator value	96.5%	95.7%	95.4%	96.2%	96.0%	96.1%	96.7%	97.2%

Licensee Comments: none

ERO Drill Participation



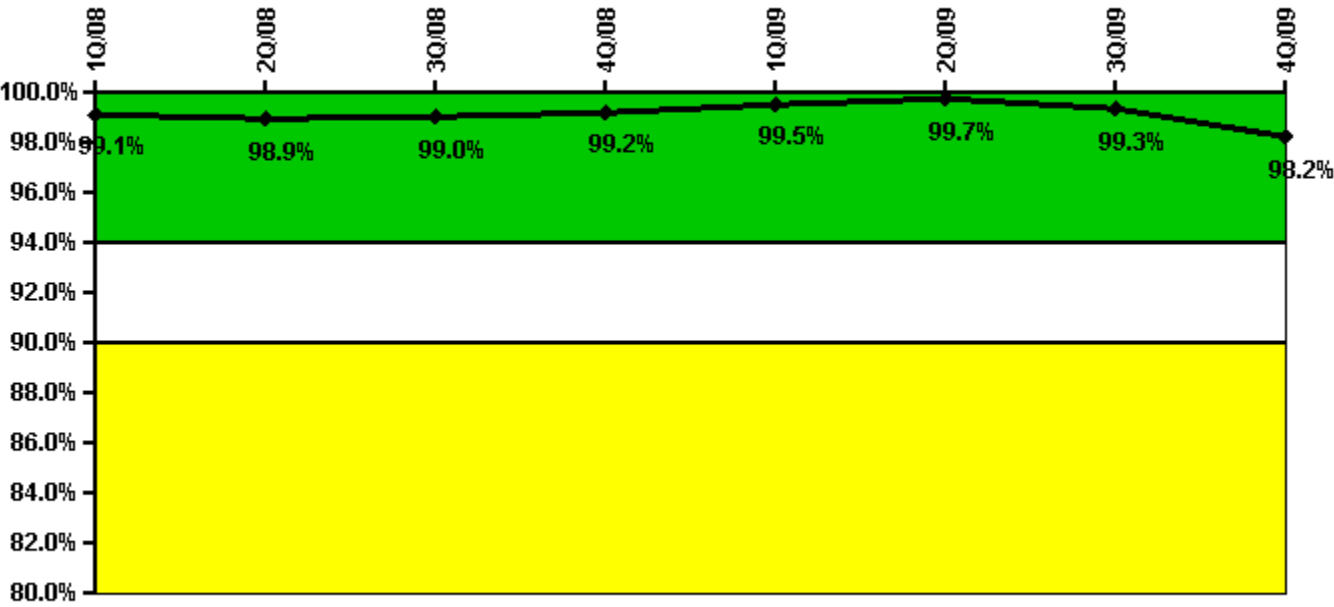
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Participating Key personnel	114.0	99.0	94.0	93.0	94.0	98.0	100.0	103.0
Total Key personnel	114.0	99.0	94.0	93.0	94.0	98.0	100.0	103.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



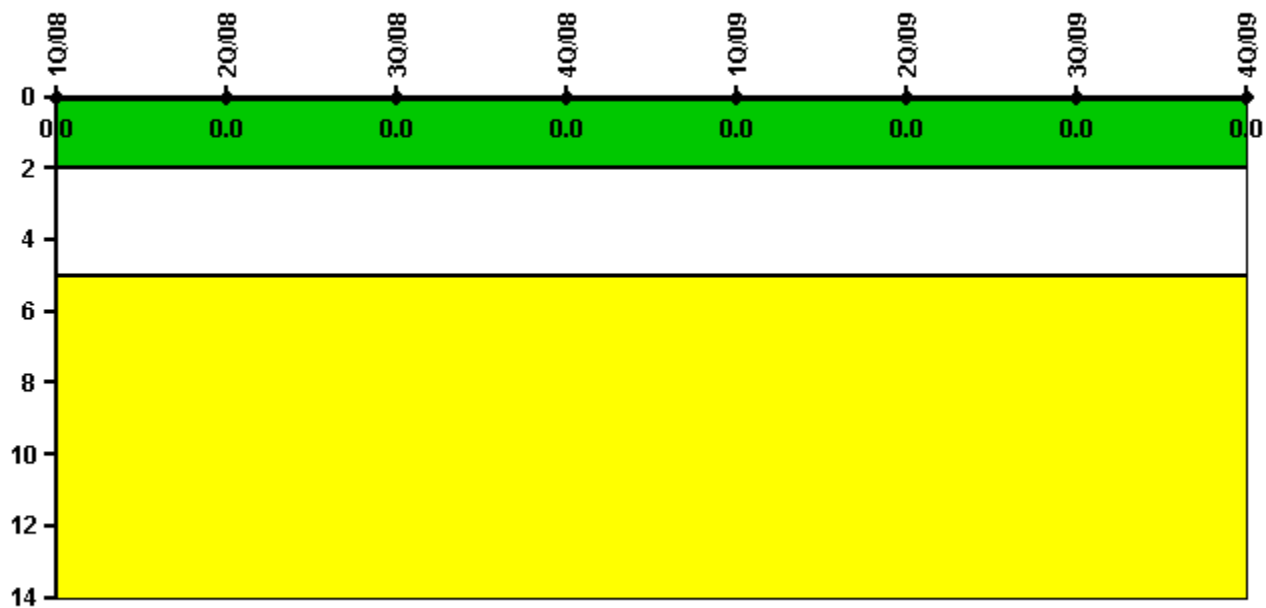
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful siren-tests	786	627	486	1220	1156	1200	1159	1105
Total sirens-tests	793	637	488	1225	1158	1204	1181	1163
Indicator value	99.1%	98.9%	99.0%	99.2%	99.5%	99.7%	99.3%	98.2%

Licensee Comments: none

Occupational Exposure Control Effectiveness



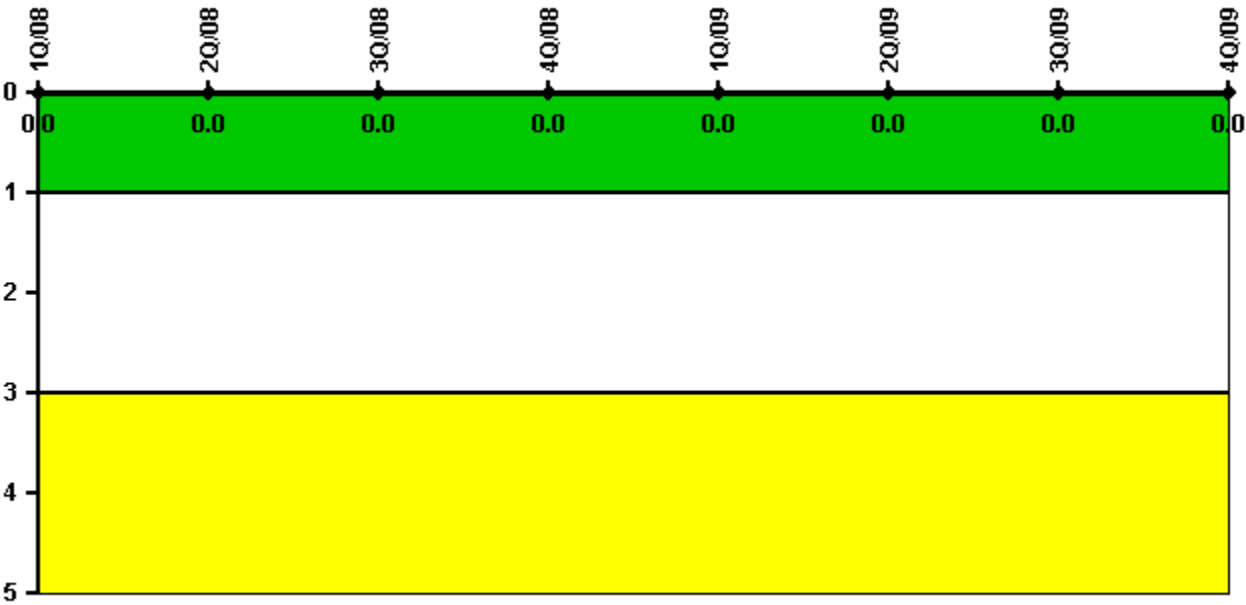
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

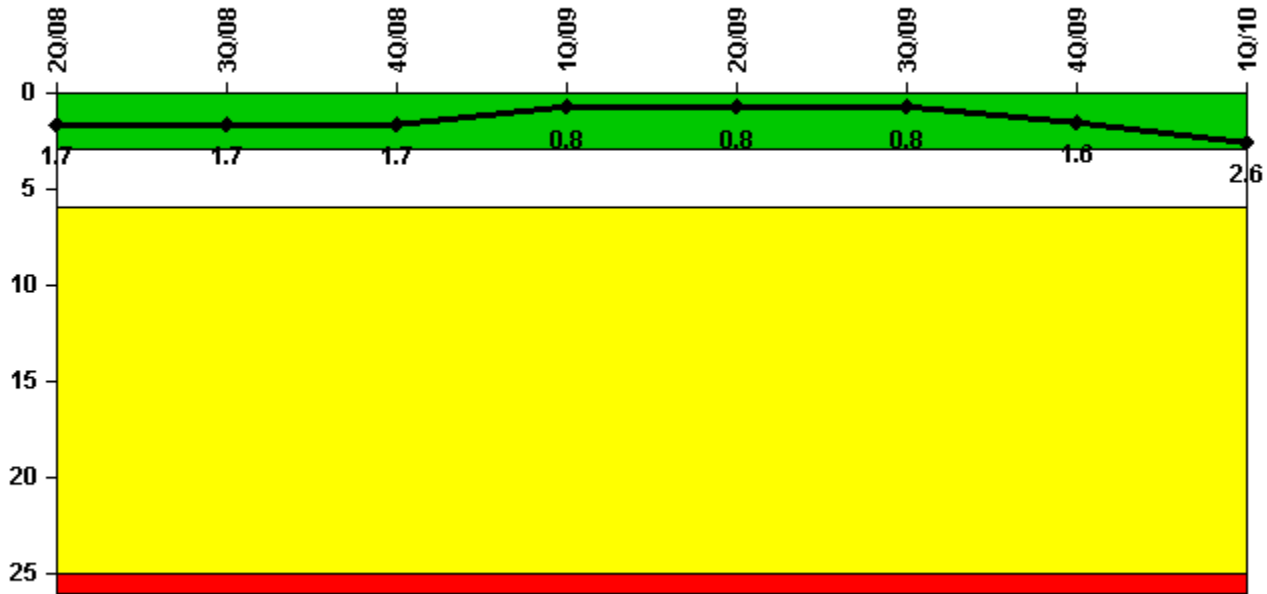
[Security](#) information not publicly available.

Indian Point 2

1Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



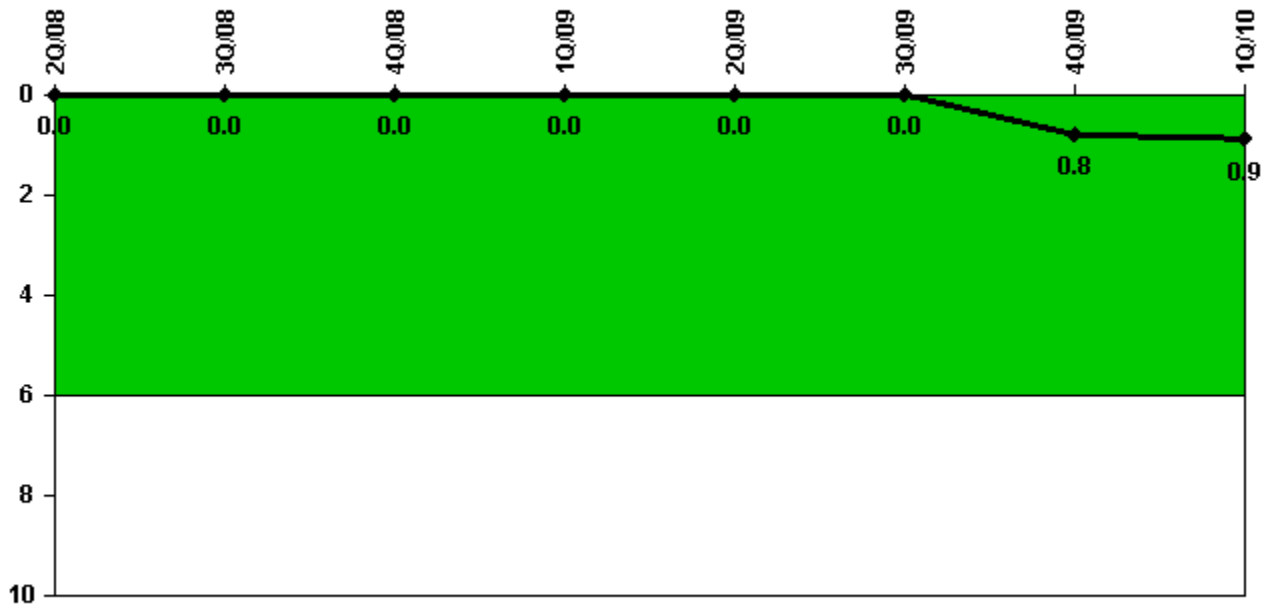
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned scrams	1.0	0	0	0	1.0	0	1.0	1.0
Critical hours	1724.9	2208.0	2209.0	2159.0	2160.3	2208.0	2177.4	1614.4
Indicator value	1.7	1.7	1.7	0.8	0.8	0.8	1.6	2.6

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



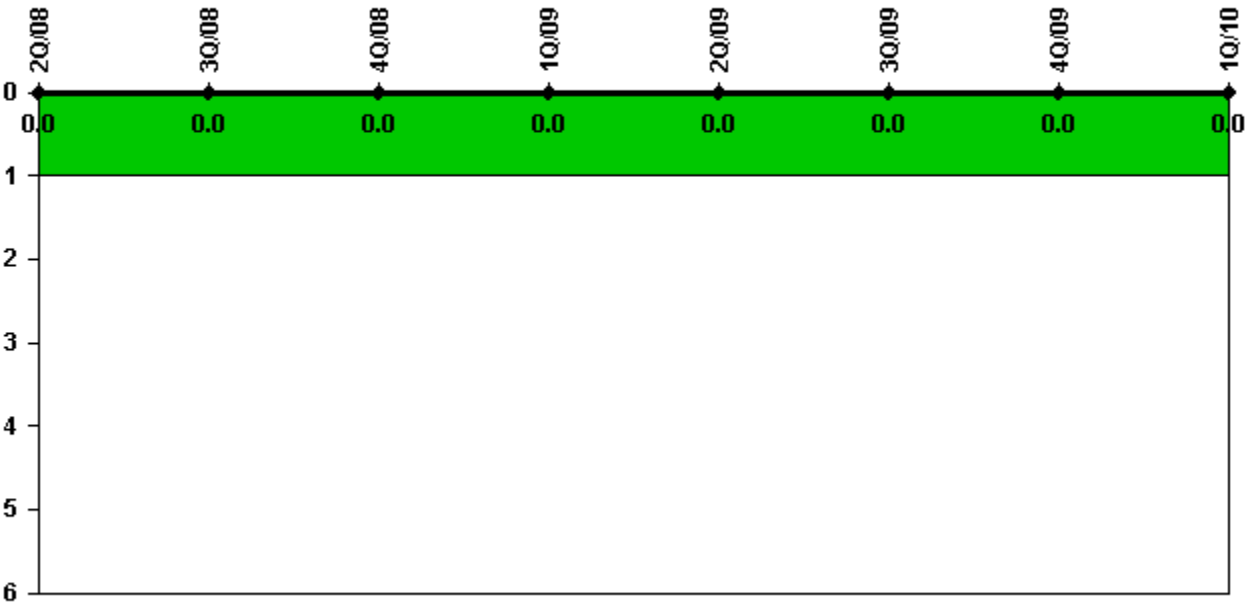
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	1724.9	2208.0	2209.0	2159.0	2160.3	2208.0	2177.4	1614.4
Indicator value	0	0	0	0	0	0	0.8	0.9

Licensee Comments: none

Unplanned Scrams with Complications



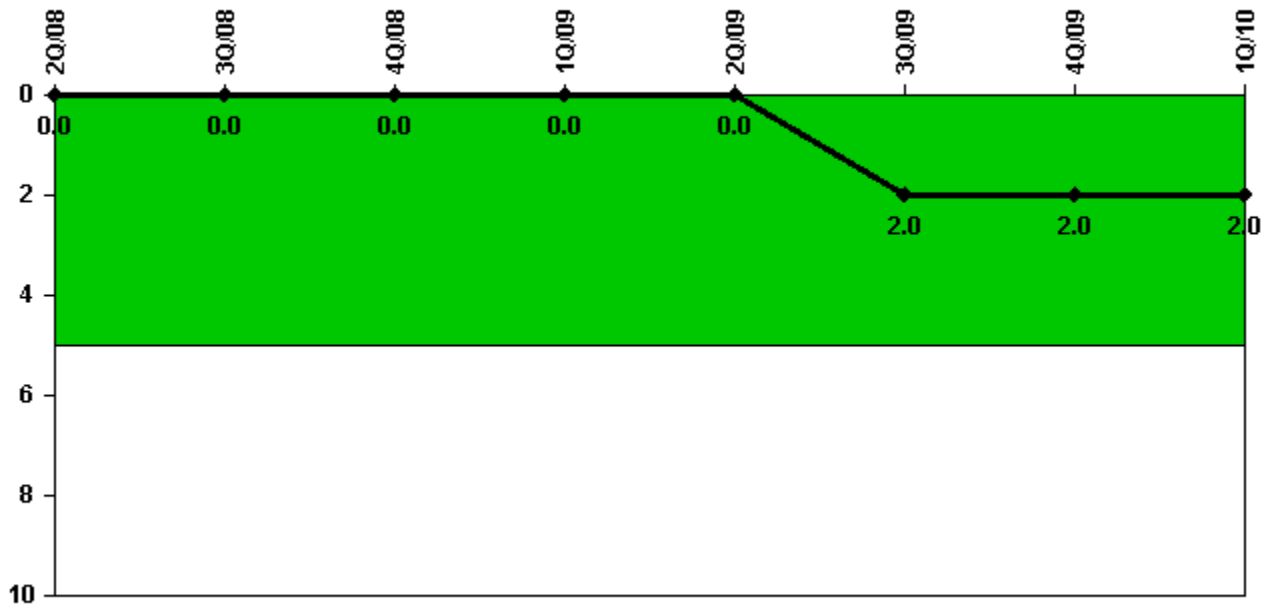
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



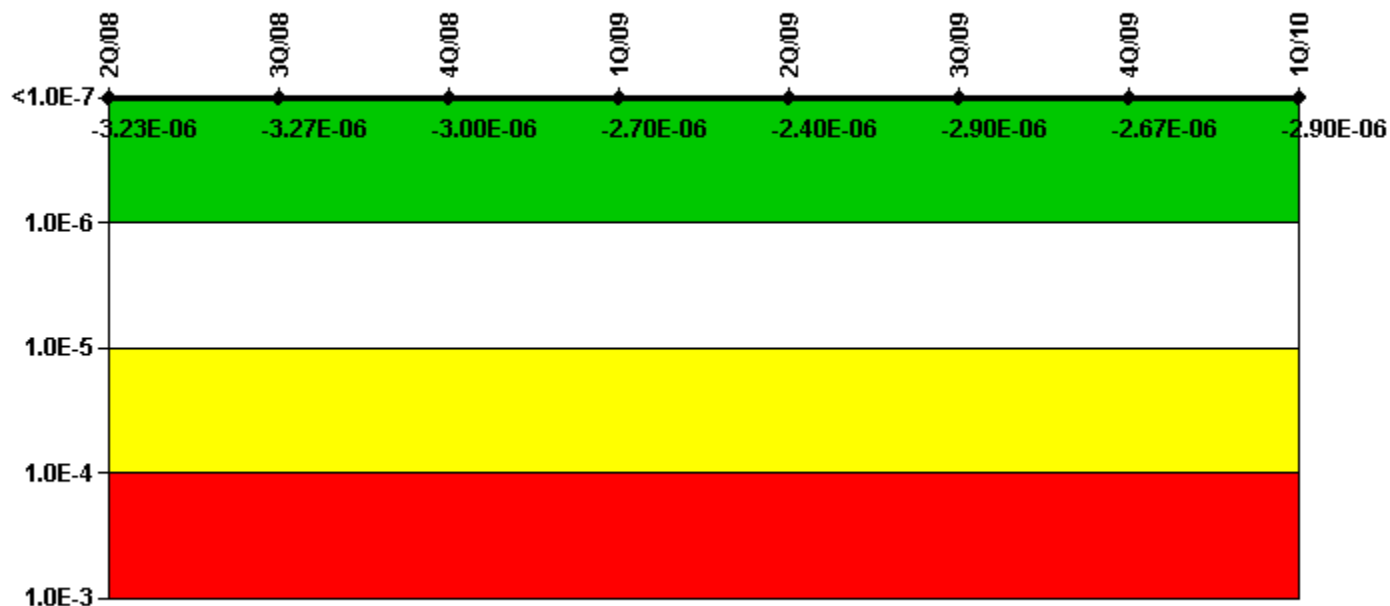
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



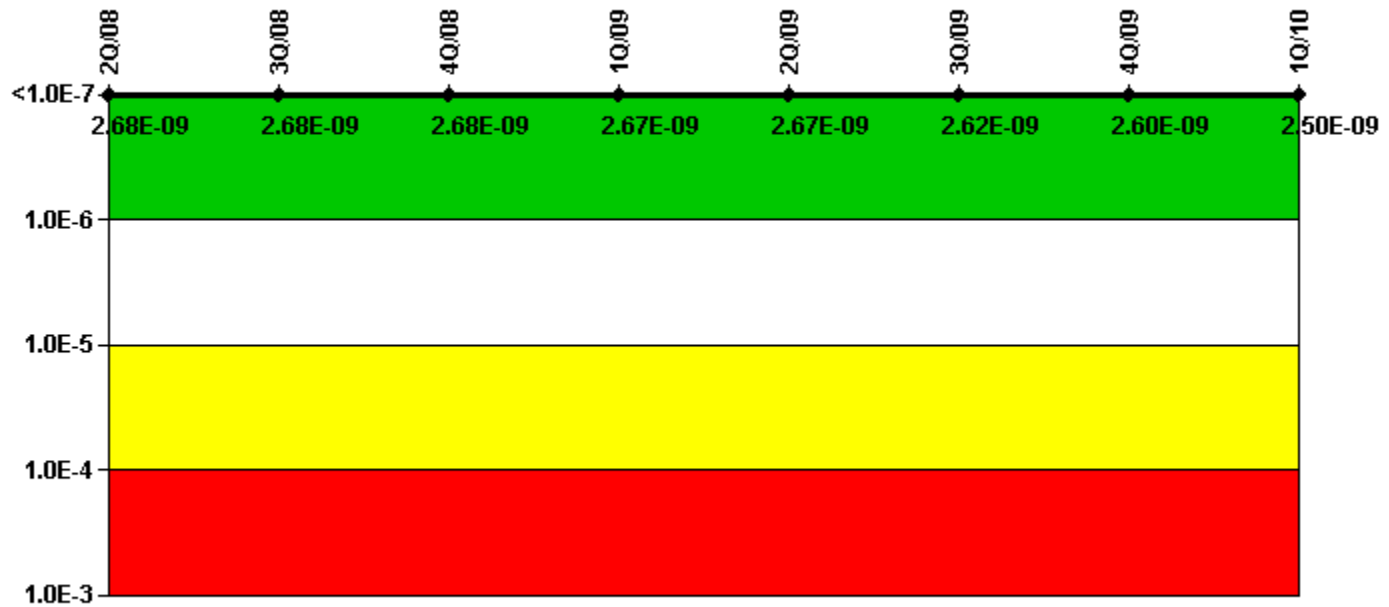
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	6.70E-07	6.30E-07	8.00E-07	1.10E-06	1.10E-06	6.00E-07	7.30E-07	7.28E-07
URI (ΔCDF)	-3.90E-06	-3.90E-06	-3.80E-06	-3.80E-06	-3.50E-06	-3.50E-06	-3.40E-06	-3.59E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.23E-06	-3.27E-06	-3.00E-06	-2.70E-06	-2.40E-06	-2.90E-06	-2.67E-06	-2.90E-06

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System



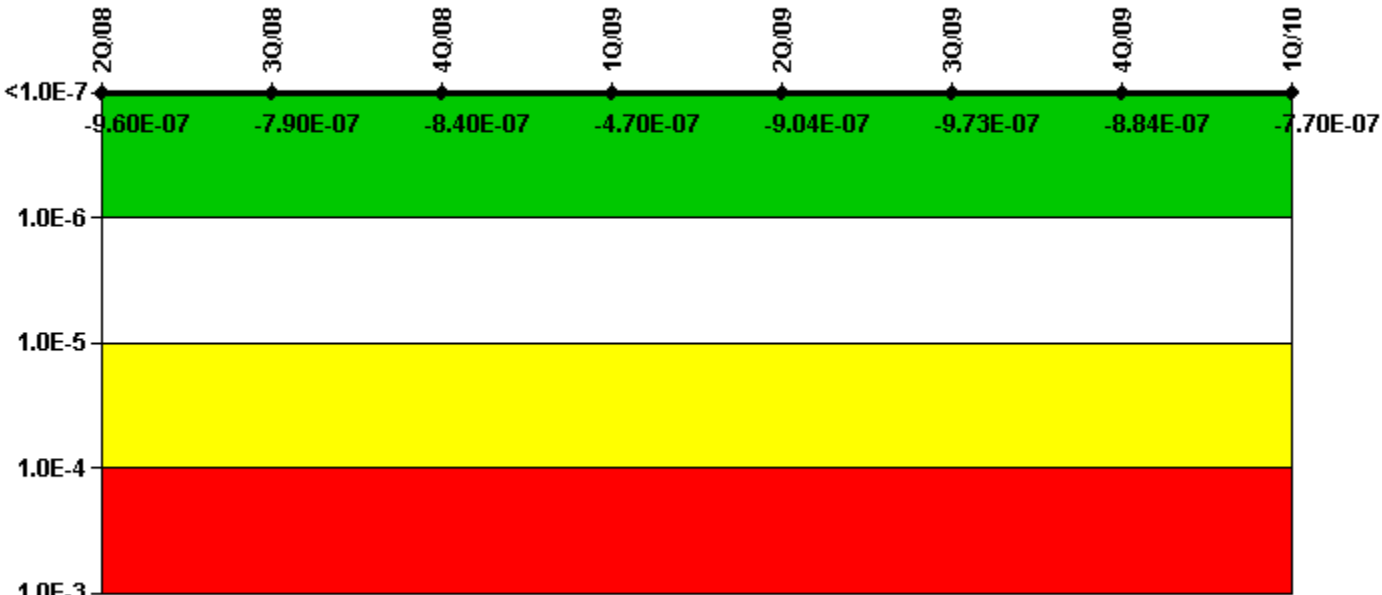
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	-1.20E-10	-1.20E-10	-1.20E-10	-1.30E-10	-1.30E-10	-1.80E-10	-2.00E-10	-2.00E-10
URI (ΔCDF)	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.74E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.68E-09	2.68E-09	2.68E-09	2.67E-09	2.67E-09	2.62E-09	2.60E-09	2.50E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



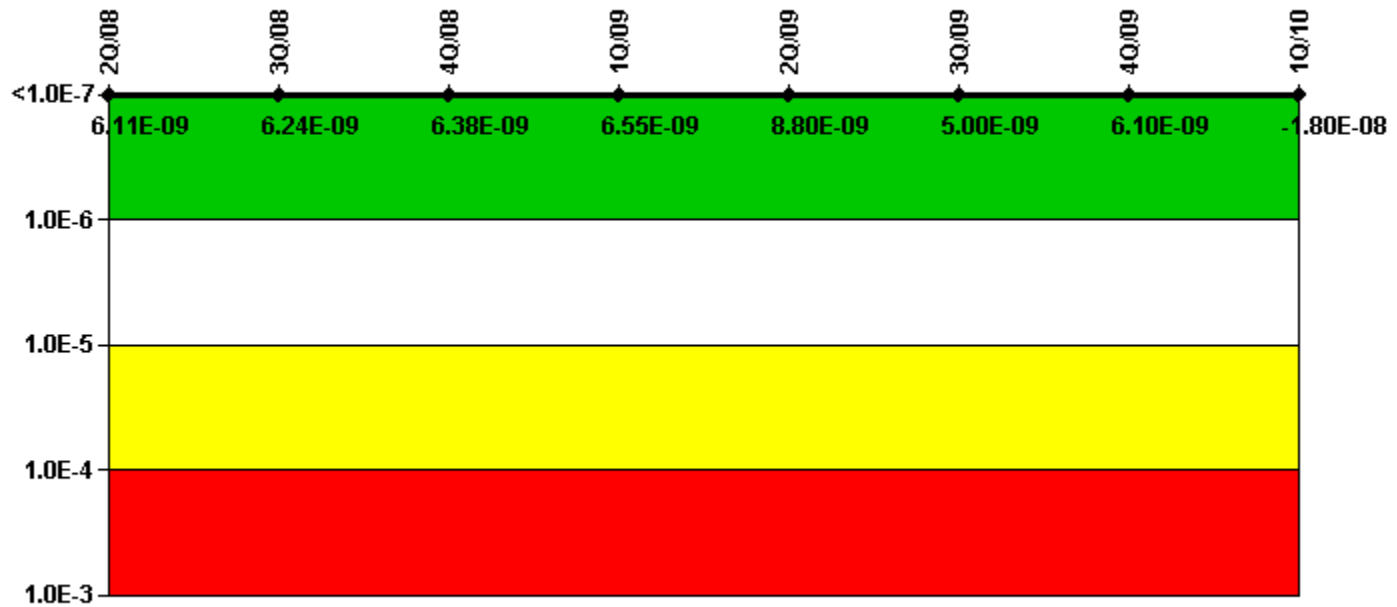
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	2.40E-07	4.10E-07	3.60E-07	6.30E-07	9.60E-08	-1.30E-08	2.60E-08	1.67E-07
URI (ΔCDF)	-1.20E-06	-1.20E-06	-1.20E-06	-1.10E-06	-1.00E-06	-9.60E-07	-9.10E-07	-9.36E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.60E-07	-7.90E-07	-8.40E-07	-4.70E-07	-9.04E-07	-9.73E-07	-8.84E-07	-7.70E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



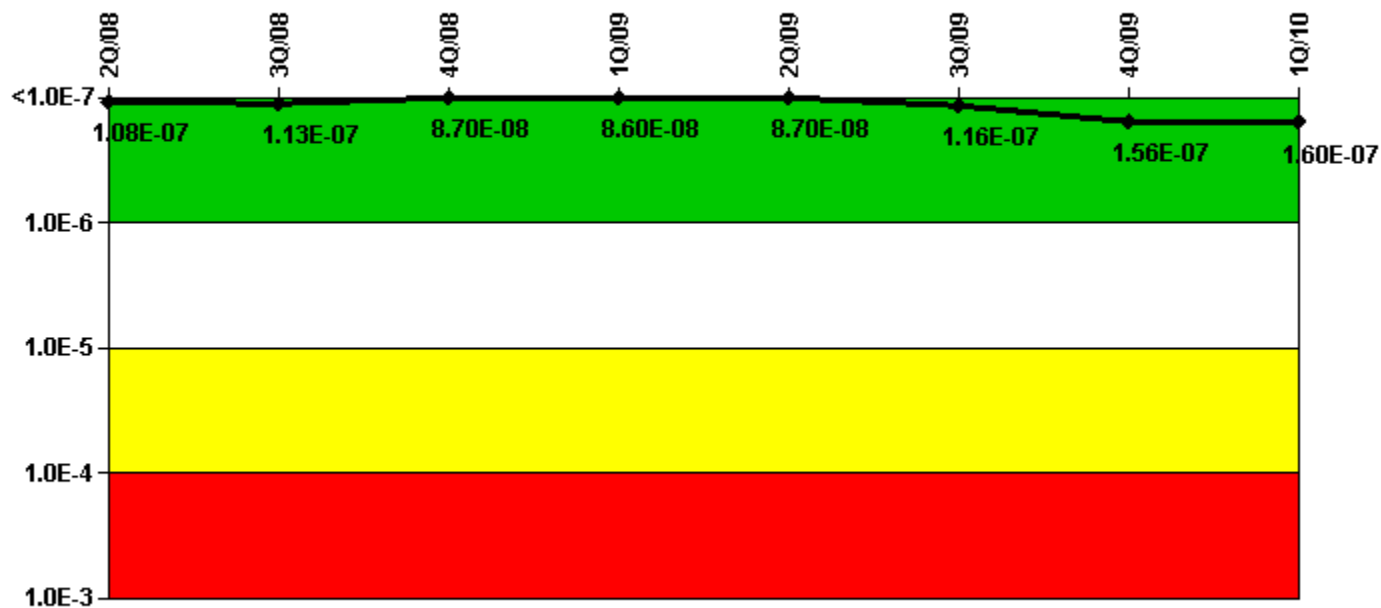
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	-9.90E-10	-9.60E-10	-9.20E-10	-9.50E-10	-1.20E-09	-6.00E-09	-5.90E-09	-5.84E-09
URI (ΔCDF)	7.10E-09	7.20E-09	7.30E-09	7.50E-09	1.00E-08	1.10E-08	1.20E-08	-1.19E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.11E-09	6.24E-09	6.38E-09	6.55E-09	8.80E-09	5.00E-09	6.10E-09	-1.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



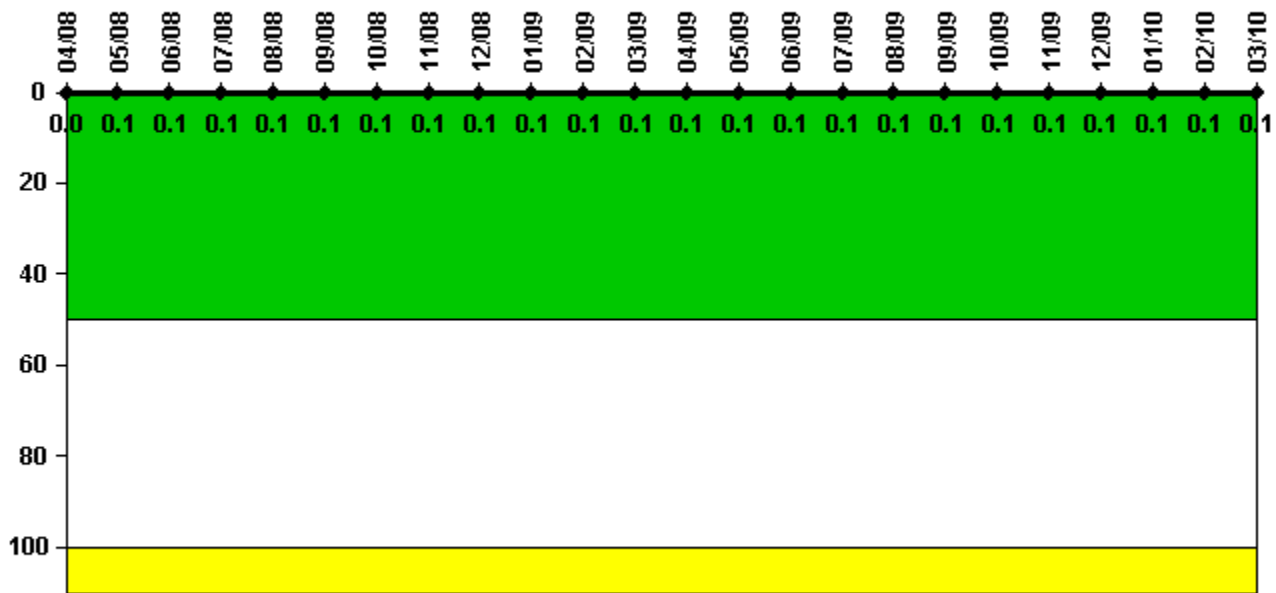
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	3.70E-08	4.20E-08	1.60E-08	1.50E-08	1.40E-08	1.60E-08	5.70E-08	5.96E-08
URI (ΔCDF)	7.10E-08	7.10E-08	7.10E-08	7.10E-08	7.30E-08	1.00E-07	9.90E-08	9.87E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.08E-07	1.13E-07	8.70E-08	8.60E-08	8.70E-08	1.16E-07	1.56E-07	1.60E-07

Licensee Comments: none

Reactor Coolant System Activity



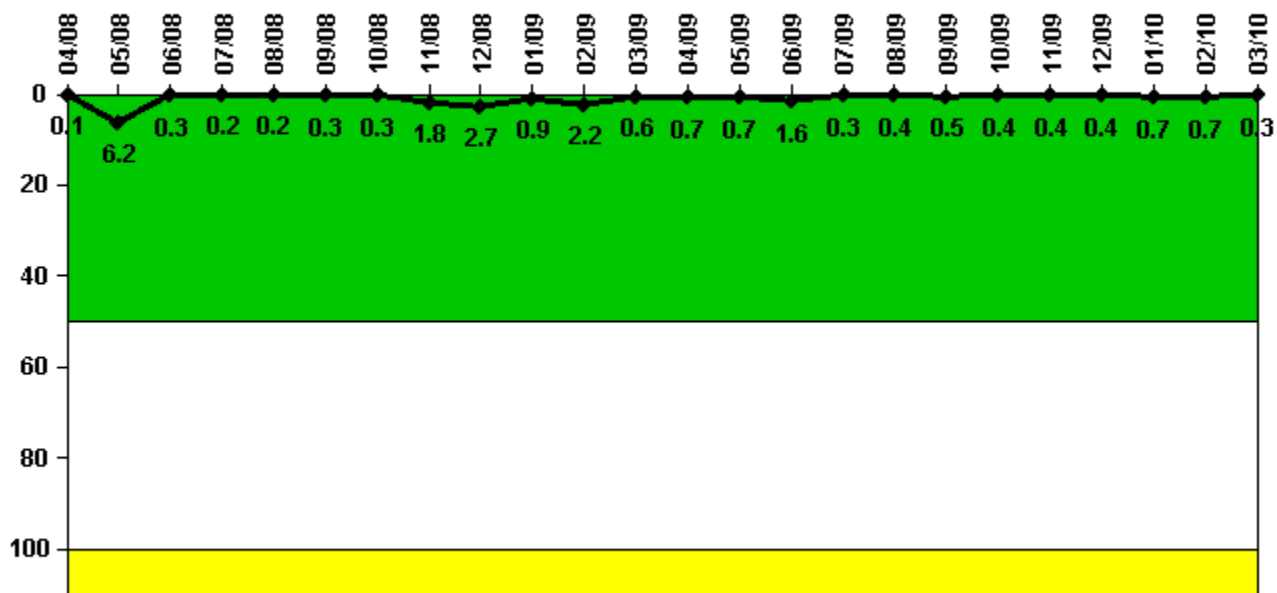
Thresholds: White > 50.0 Yellow > 100.0

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	0.000449	0.000501	0.000717	0.000595	0.000579	0.000614	0.000667	0.000608	0.000647	0.000627	0.000653	0.000690
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum activity	0.000740	0.000733	0.000725	0.000809	0.000816	0.000795	0.000839	0.000789	0.000918	0.000882	0.000897	0.000936
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

Reactor Coolant System Leakage



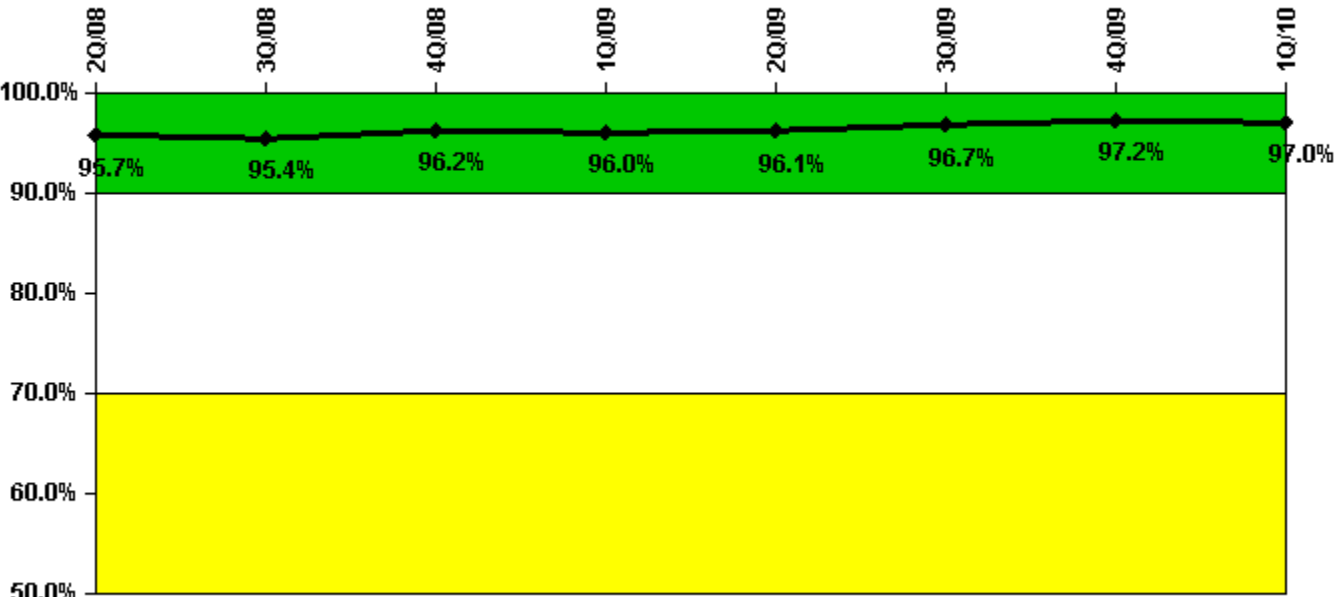
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum leakage	0.010	0.620	0.030	0.020	0.020	0.030	0.030	0.180	0.270	0.090	0.220	0.060
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	6.2	0.3	0.2	0.2	0.3	0.3	1.8	2.7	0.9	2.2	0.6
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	0.070	0.070	0.160	0.030	0.040	0.050	0.040	0.040	0.040	0.070	0.070	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	0.7	0.7	1.6	0.3	0.4	0.5	0.4	0.4	0.4	0.7	0.7	0.3

Licensee Comments: none

Drill/Exercise Performance



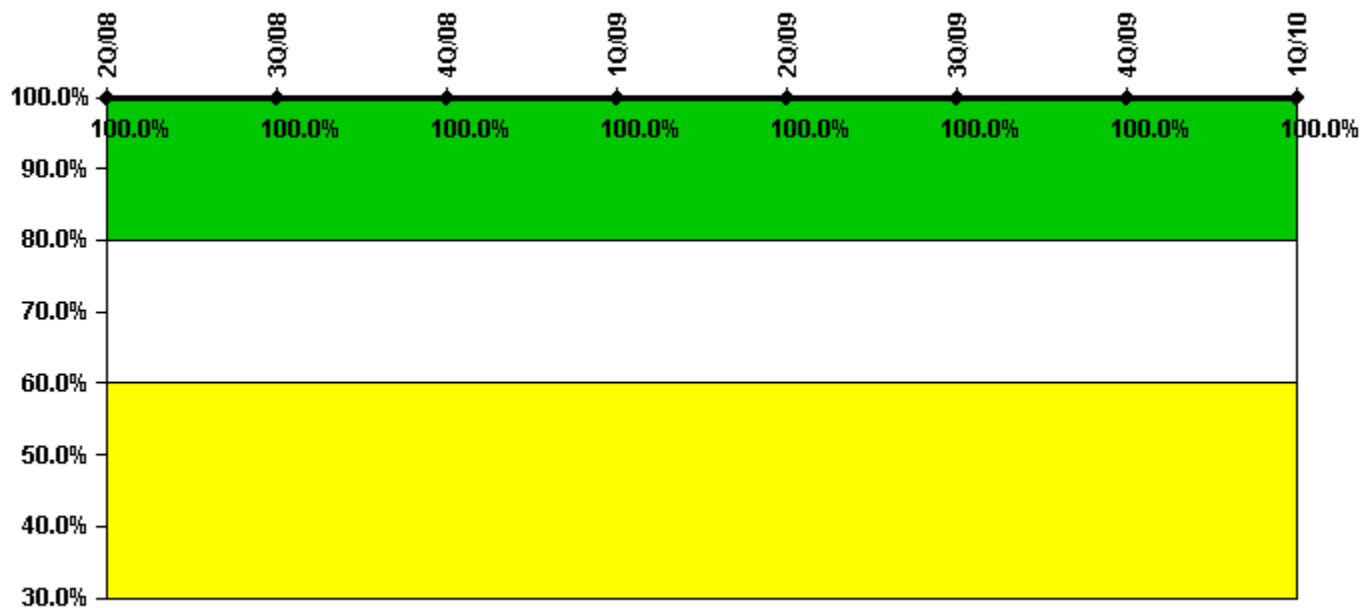
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful opportunities	50.0	90.0	74.0	22.0	38.0	95.0	62.0	17.0
Total opportunities	54.0	92.0	76.0	24.0	38.0	96.0	64.0	18.0
Indicator value	95.7%	95.4%	96.2%	96.0%	96.1%	96.7%	97.2%	97.0%

Licensee Comments: none

ERO Drill Participation



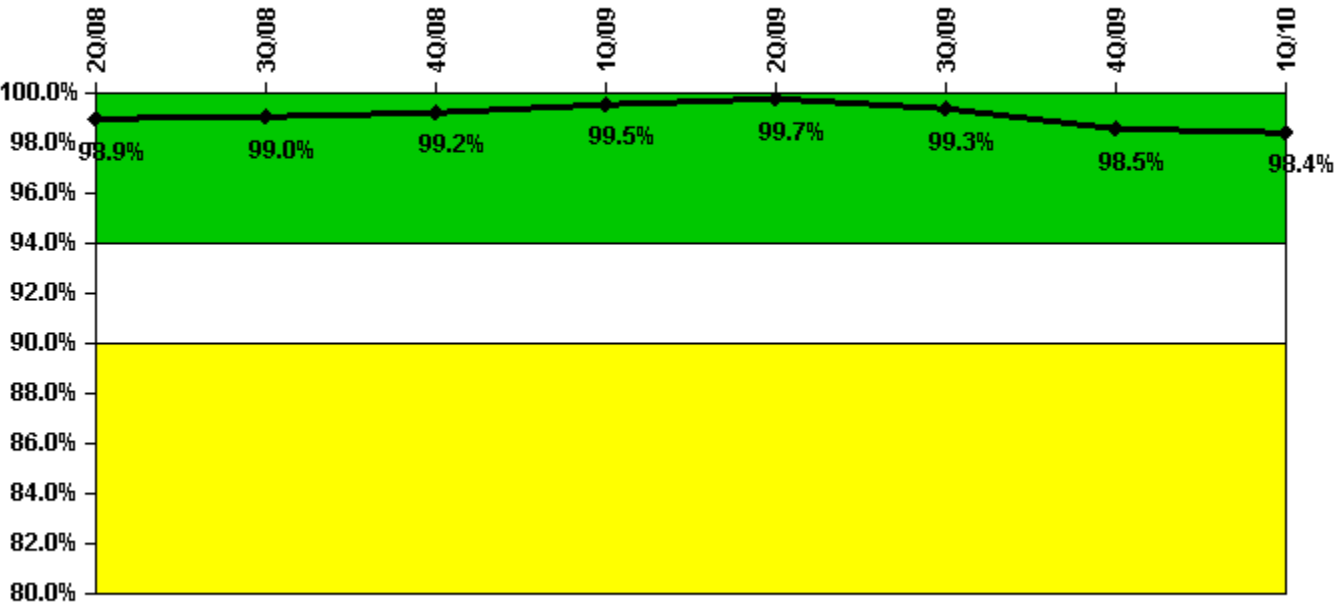
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Participating Key personnel	99.0	94.0	93.0	94.0	98.0	100.0	103.0	108.0
Total Key personnel	99.0	94.0	93.0	94.0	98.0	100.0	103.0	108.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



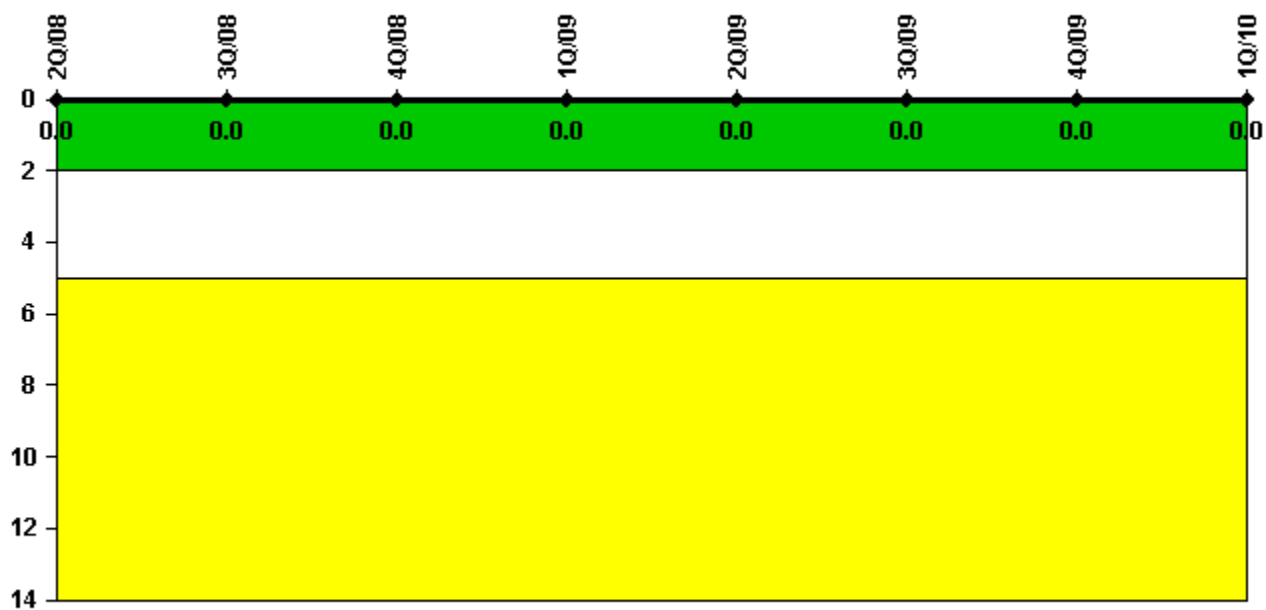
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful siren-tests	627	486	1220	1156	1200	1159	1121	1014
Total sirens-tests	637	488	1225	1158	1204	1181	1163	1018
Indicator value	98.9%	99.0%	99.2%	99.5%	99.7%	99.3%	98.5%	98.4%

Licensee Comments: none

Occupational Exposure Control Effectiveness



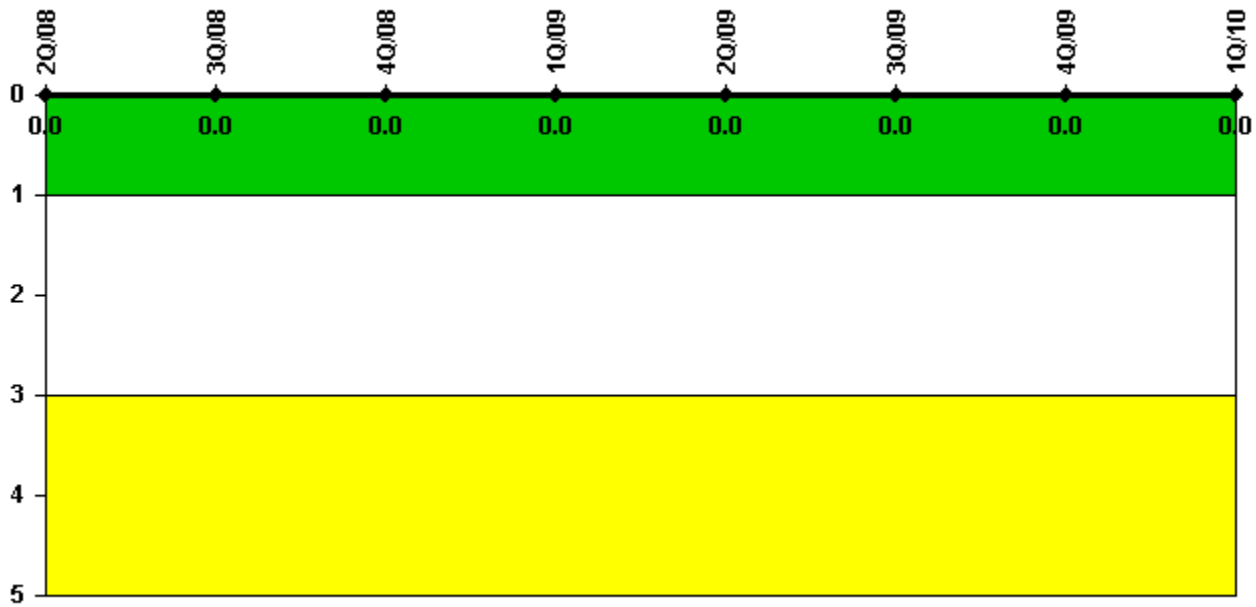
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

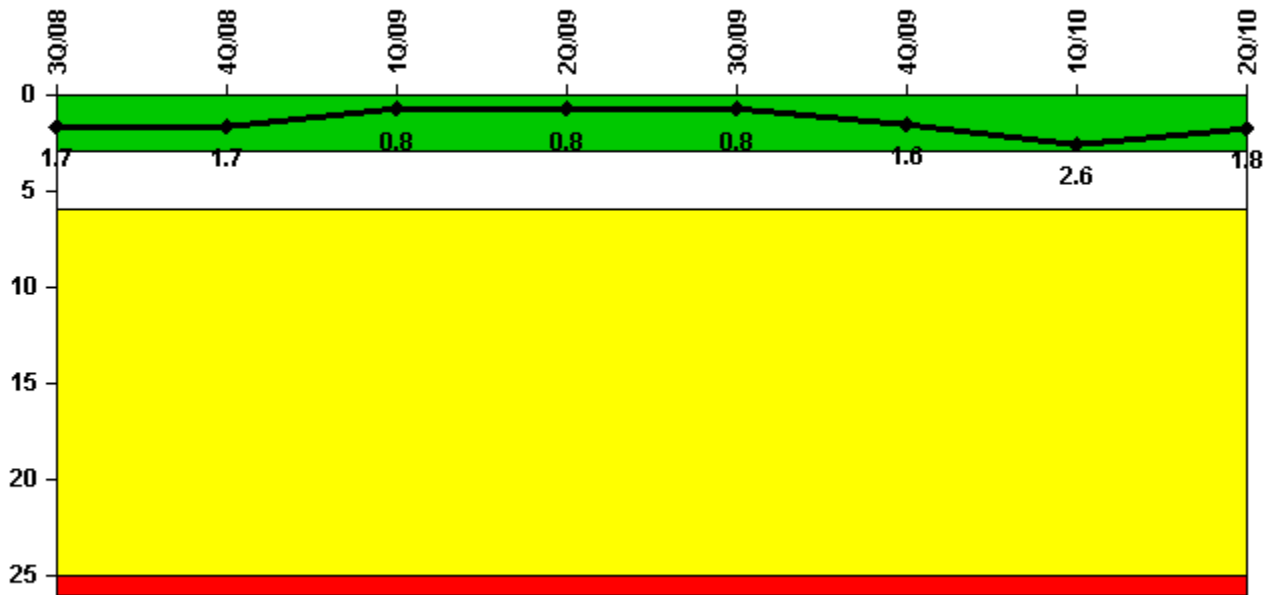
[Security](#) information not publicly available.

Indian Point 2

2Q/2010 Performance Indicators

Licensee's General Comments: 23 EDG output breaker failed to close on demand during maintenance on March 30, 2010. As no maintenance had been performed on the breaker, the failure was determined to be an MSPI failure.

Unplanned Scrams per 7000 Critical Hrs



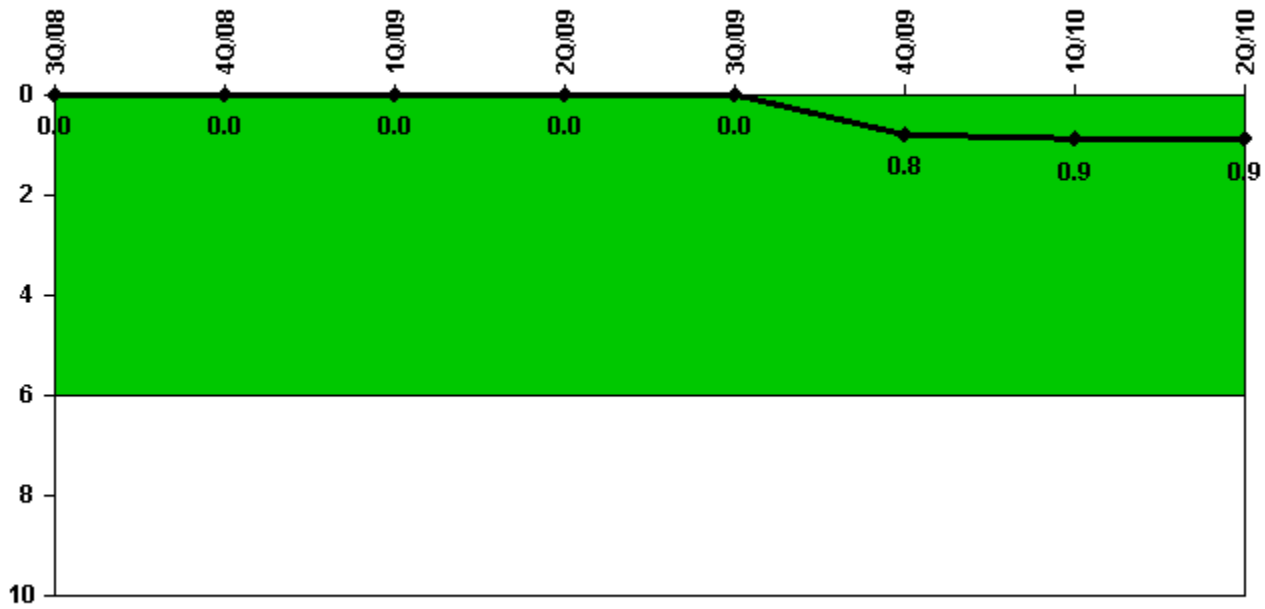
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	1.0	1.0	0
Critical hours	2208.0	2209.0	2159.0	2160.3	2208.0	2177.4	1614.4	1953.4
Indicator value	1.7	1.7	0.8	0.8	0.8	1.6	2.6	1.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



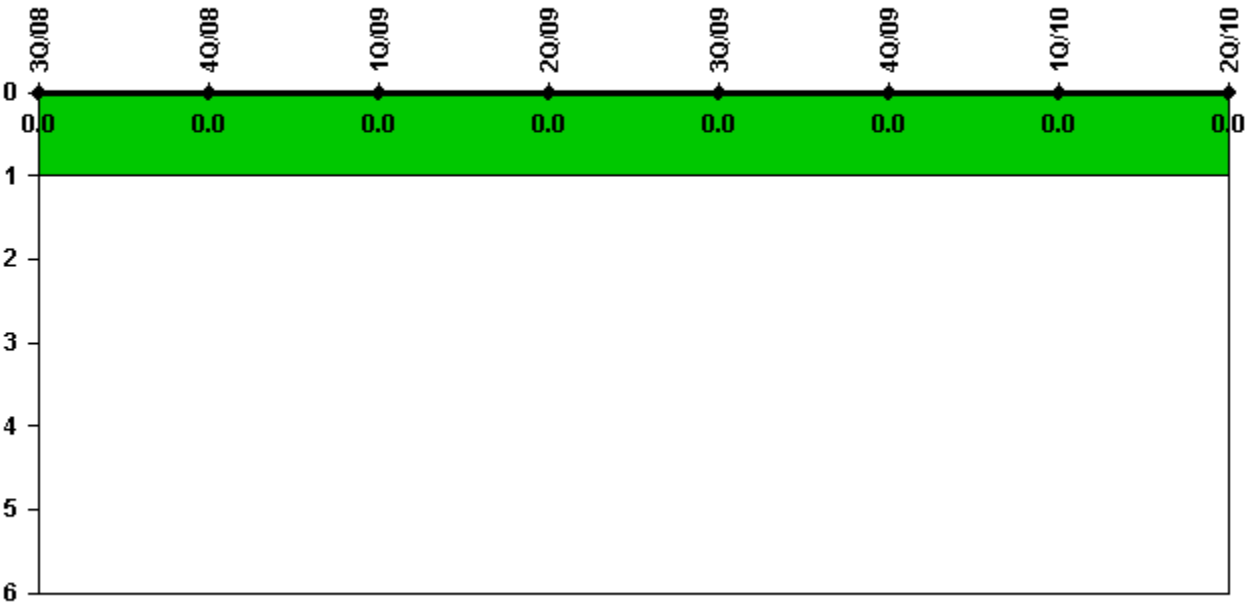
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	2159.0	2160.3	2208.0	2177.4	1614.4	1953.4
Indicator value	0	0	0	0	0	0.8	0.9	0.9

Licensee Comments: none

Unplanned Scrams with Complications



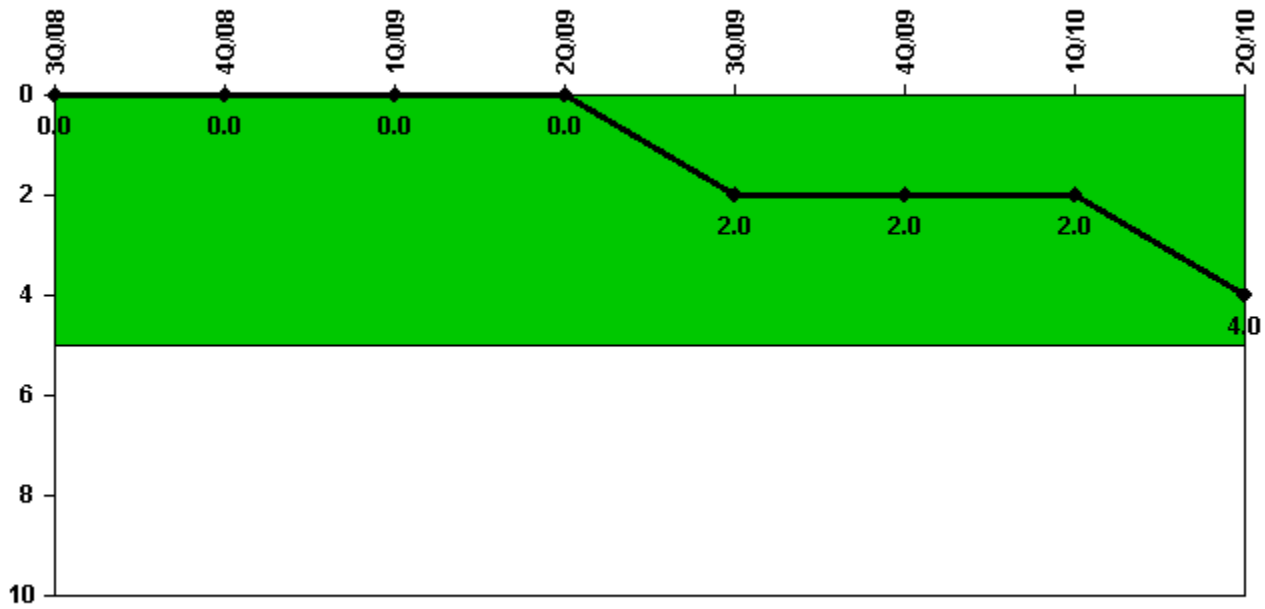
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



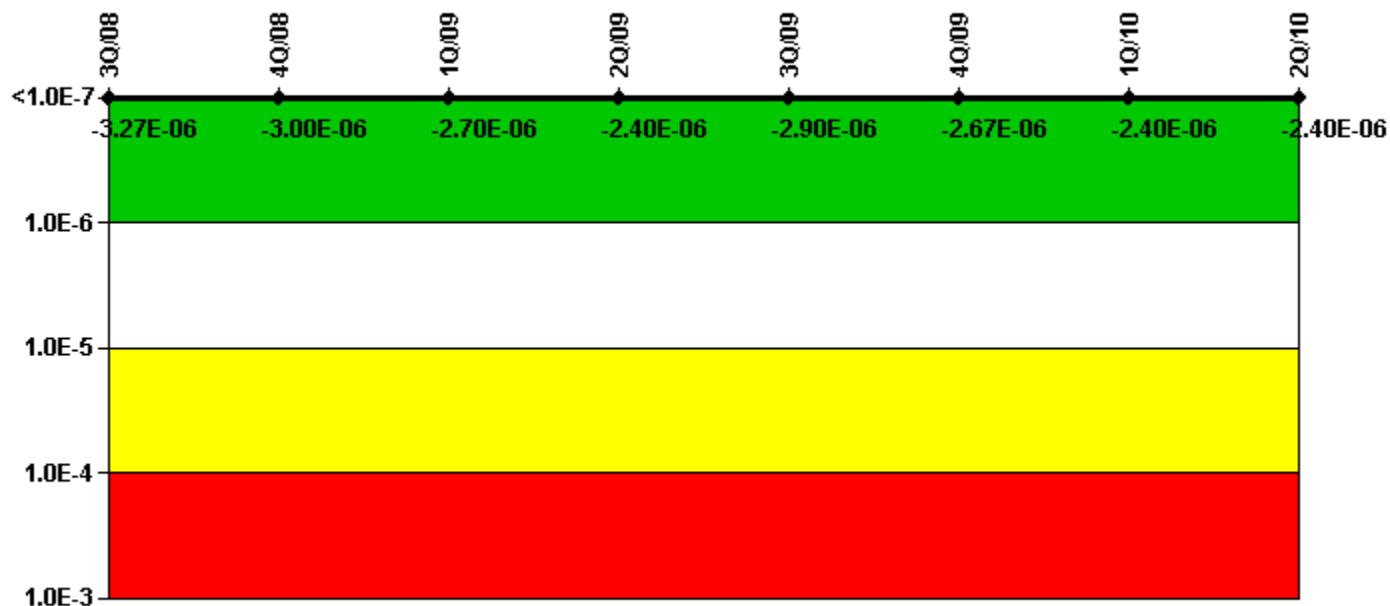
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

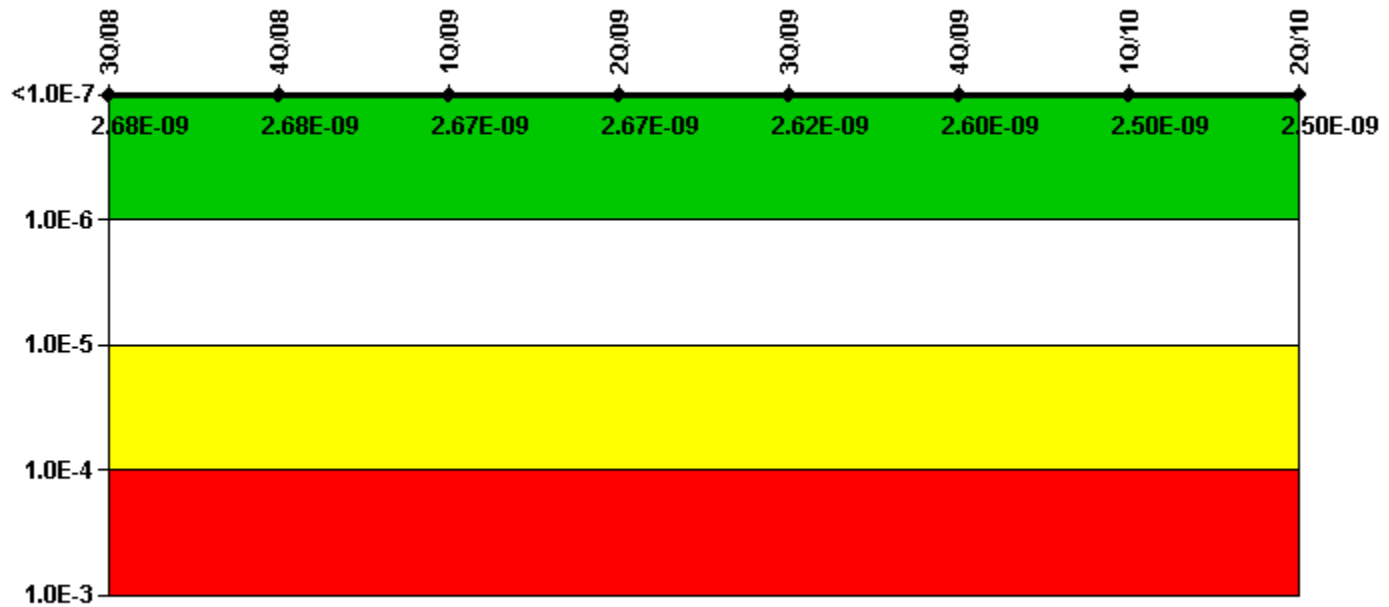
Mitigating Systems Performance Index, Emergency AC Power System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	6.30E-07	8.00E-07	1.10E-06	1.10E-06	6.00E-07	7.30E-07	7.28E-07	6.75E-07
URI (ΔCDF)	-3.90E-06	-3.80E-06	-3.80E-06	-3.50E-06	-3.50E-06	-3.40E-06	-3.09E-06	-3.12E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.27E-06	-3.00E-06	-2.70E-06	-2.40E-06	-2.90E-06	-2.67E-06	-2.40E-06	-2.40E-06

Licensee Comments:

2Q/10: Risk Cap Invoked.

1Q/10: 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/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	-1.20E-10	-1.20E-10	-1.30E-10	-1.30E-10	-1.80E-10	-2.00E-10	-2.00E-10	-2.03E-10
URI (ΔCDF)	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.74E-09	2.72E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.68E-09	2.68E-09	2.67E-09	2.67E-09	2.62E-09	2.60E-09	2.50E-09	2.50E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



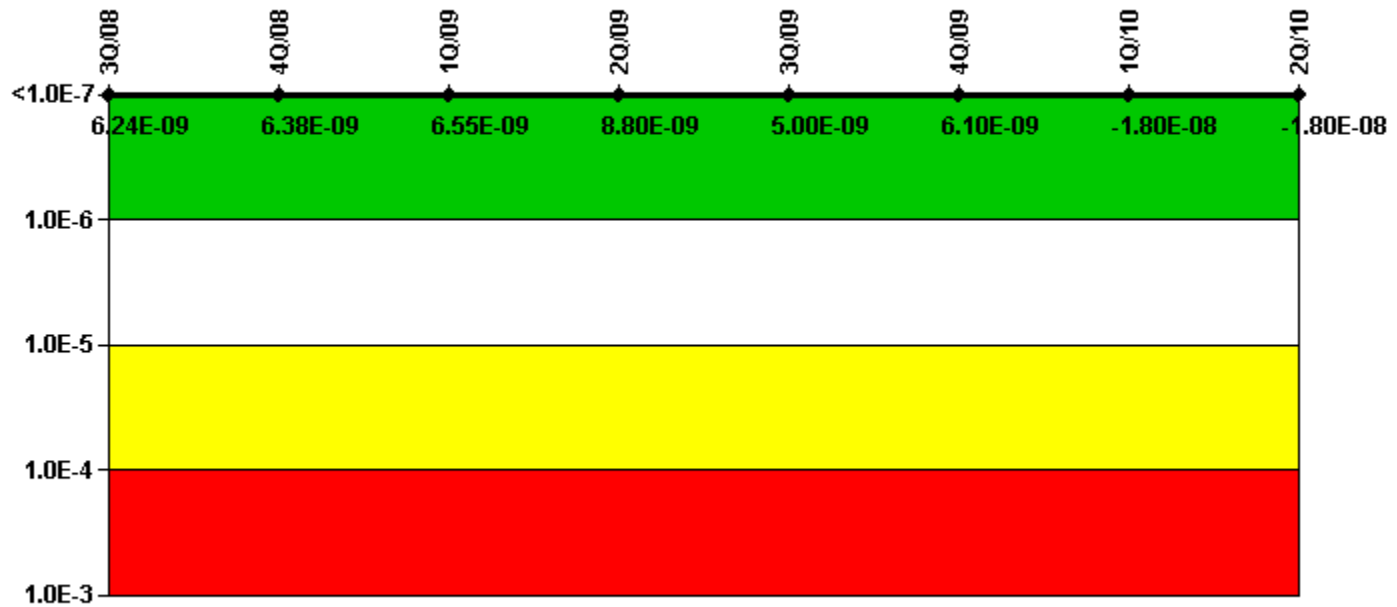
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	4.10E-07	3.60E-07	6.30E-07	9.60E-08	-1.30E-08	2.60E-08	1.67E-07	3.61E-07
URI (ΔCDF)	-1.20E-06	-1.20E-06	-1.10E-06	-1.00E-06	-9.60E-07	-9.10E-07	-9.36E-07	-1.00E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.90E-07	-8.40E-07	-4.70E-07	-9.04E-07	-9.73E-07	-8.84E-07	-7.70E-07	-6.40E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



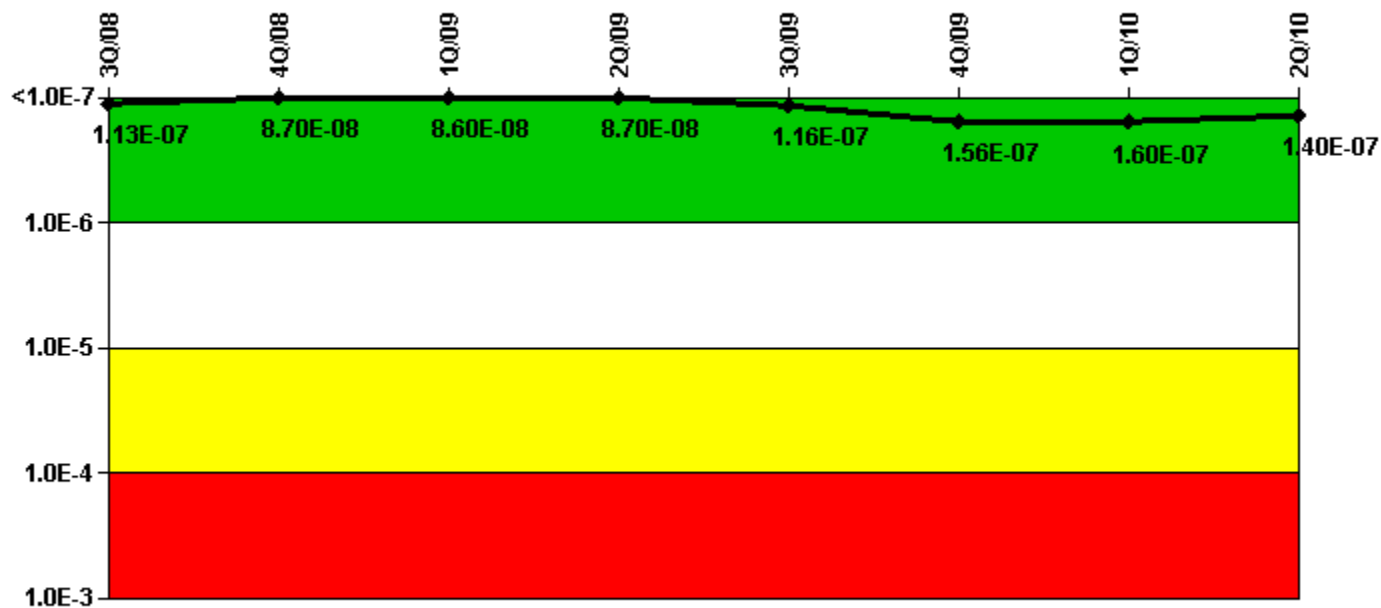
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	-9.60E-10	-9.20E-10	-9.50E-10	-1.20E-09	-6.00E-09	-5.90E-09	-5.84E-09	-5.77E-09
URI (ΔCDF)	7.20E-09	7.30E-09	7.50E-09	1.00E-08	1.10E-08	1.20E-08	-1.19E-08	-1.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.24E-09	6.38E-09	6.55E-09	8.80E-09	5.00E-09	6.10E-09	-1.80E-08	-1.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



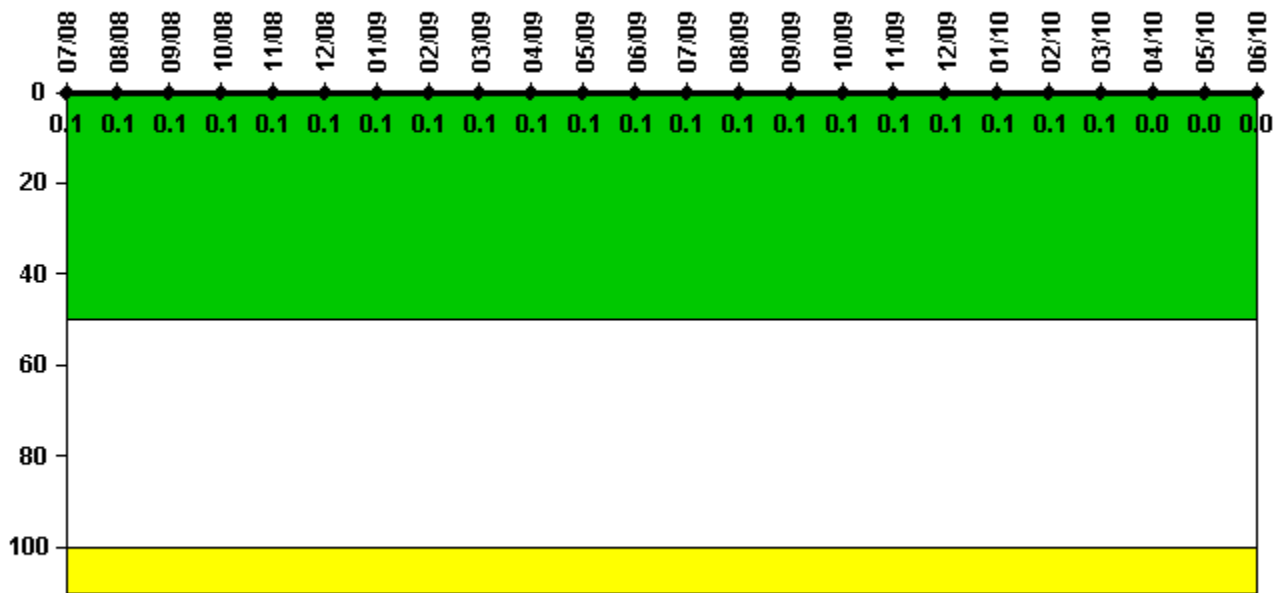
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	4.20E-08	1.60E-08	1.50E-08	1.40E-08	1.60E-08	5.70E-08	5.96E-08	7.47E-08
URI (ΔCDF)	7.10E-08	7.10E-08	7.10E-08	7.30E-08	1.00E-07	9.90E-08	9.87E-08	6.63E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.13E-07	8.70E-08	8.60E-08	8.70E-08	1.16E-07	1.56E-07	1.60E-07	1.40E-07

Licensee Comments: none

Reactor Coolant System Activity



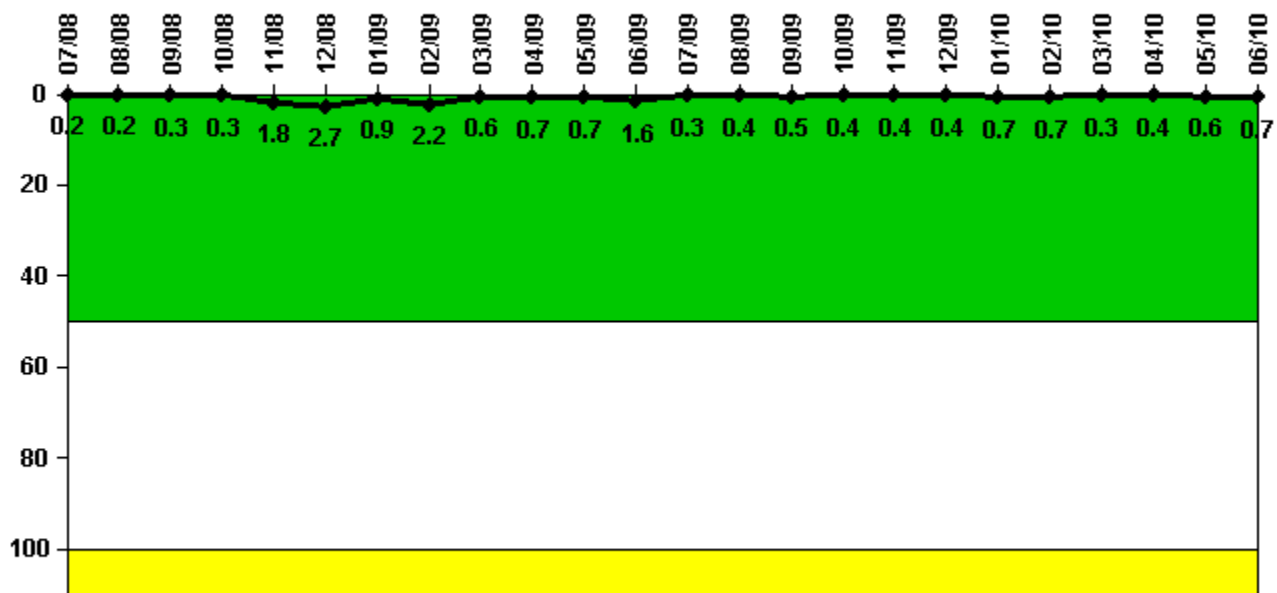
Thresholds: White > 50.0 Yellow > 100.0

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	0.000595	0.000579	0.000614	0.000667	0.000608	0.000647	0.000627	0.000653	0.000690	0.000740	0.000733	0.000725
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum activity	0.000809	0.000816	0.000795	0.000839	0.000789	0.000918	0.000882	0.000897	0.000936	0.000342	0.000268	0.000286
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



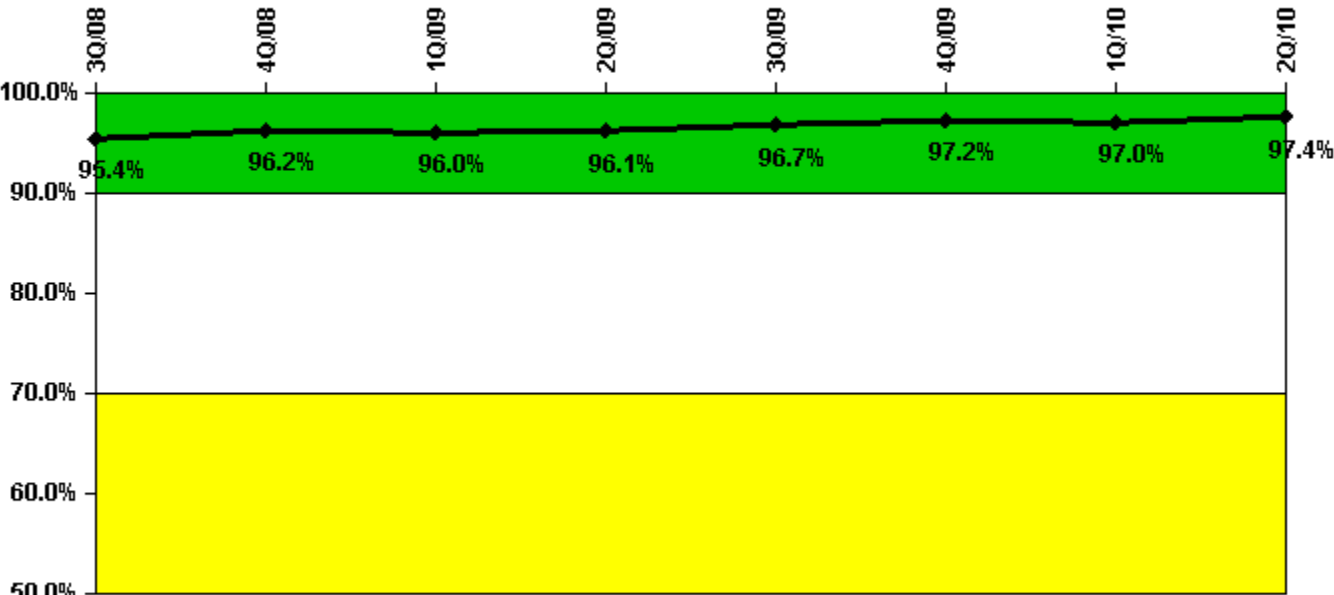
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum leakage	0.020	0.020	0.030	0.030	0.180	0.270	0.090	0.220	0.060	0.070	0.070	0.160
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.2	0.2	0.3	0.3	1.8	2.7	0.9	2.2	0.6	0.7	0.7	1.6
Reactor Coolant System Leakage	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum leakage	0.030	0.040	0.050	0.040	0.040	0.040	0.070	0.070	0.030	0.040	0.060	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.3	0.4	0.5	0.4	0.4	0.4	0.7	0.7	0.3	0.4	0.6	0.7

Licensee Comments: none

Drill/Exercise Performance



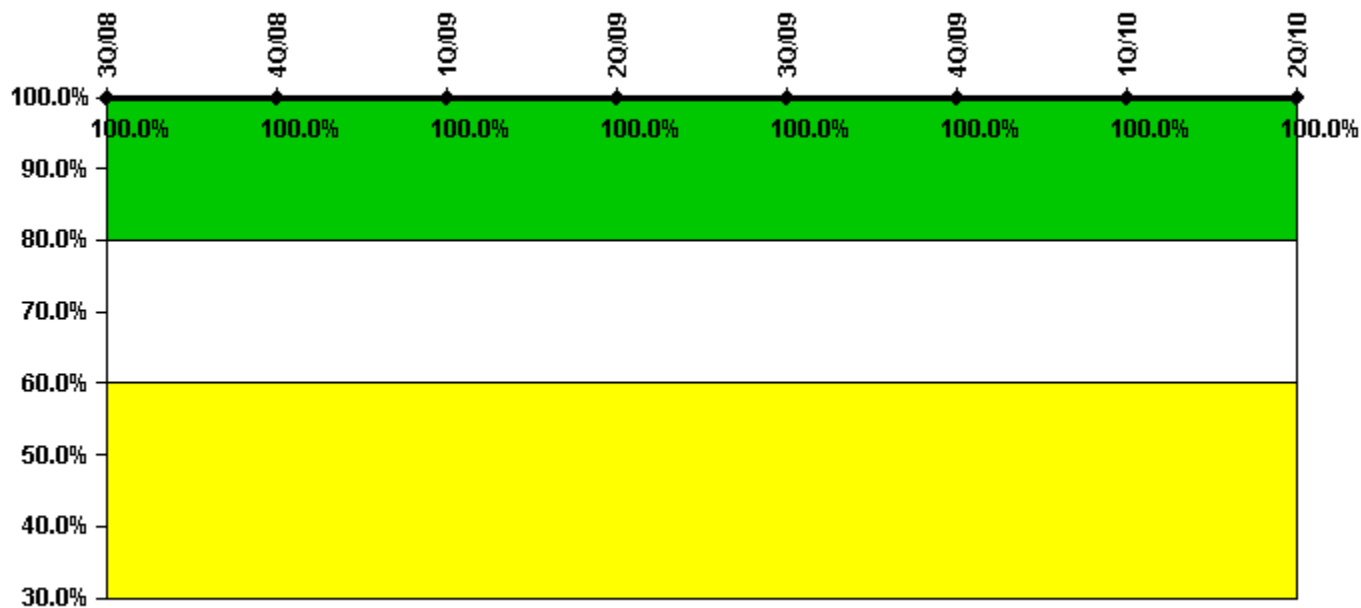
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful opportunities	90.0	74.0	22.0	38.0	95.0	62.0	17.0	46.0
Total opportunities	92.0	76.0	24.0	38.0	96.0	64.0	18.0	48.0
Indicator value	95.4%	96.2%	96.0%	96.1%	96.7%	97.2%	97.0%	97.4%

Licensee Comments: none

ERO Drill Participation



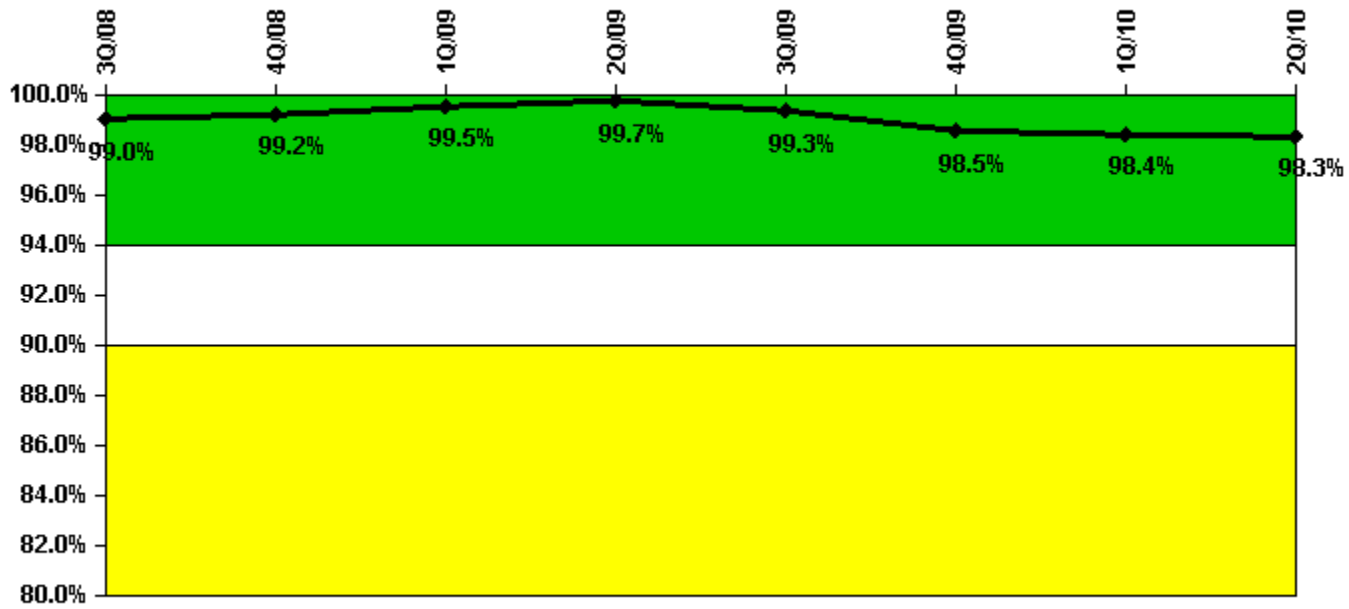
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Participating Key personnel	94.0	93.0	94.0	98.0	100.0	103.0	108.0	113.0
Total Key personnel	94.0	93.0	94.0	98.0	100.0	103.0	108.0	113.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



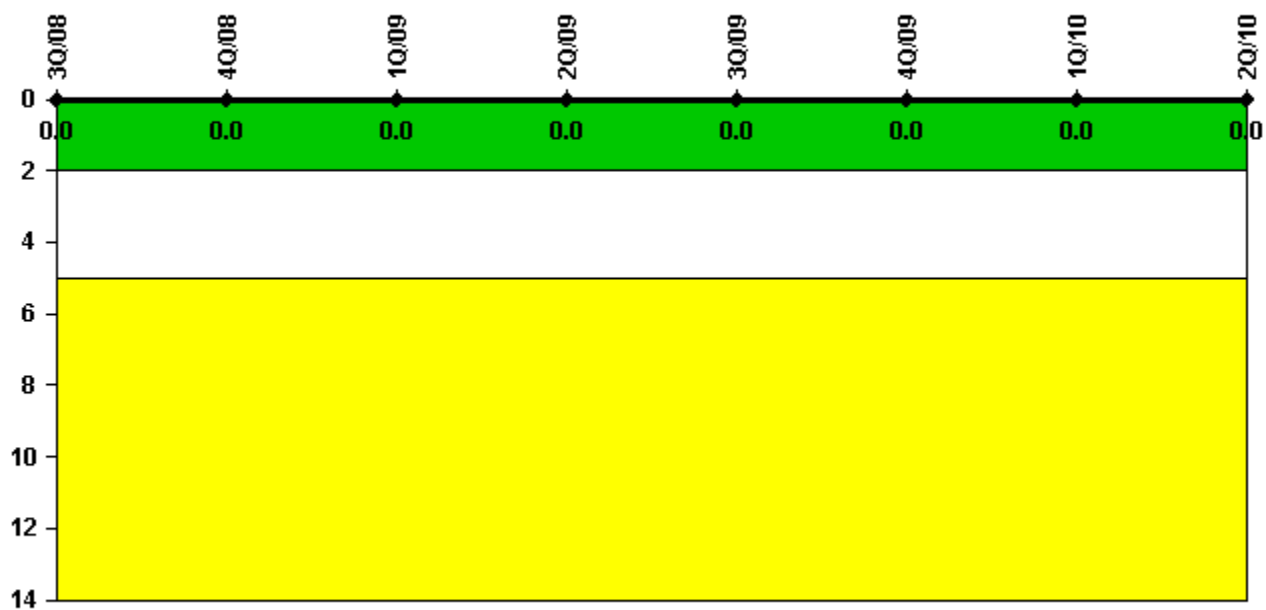
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful siren-tests	486	1220	1156	1200	1159	1121	1014	878
Total sirens-tests	488	1225	1158	1204	1181	1163	1018	881
Indicator value	99.0%	99.2%	99.5%	99.7%	99.3%	98.5%	98.4%	98.3%

Licensee Comments: none

Occupational Exposure Control Effectiveness



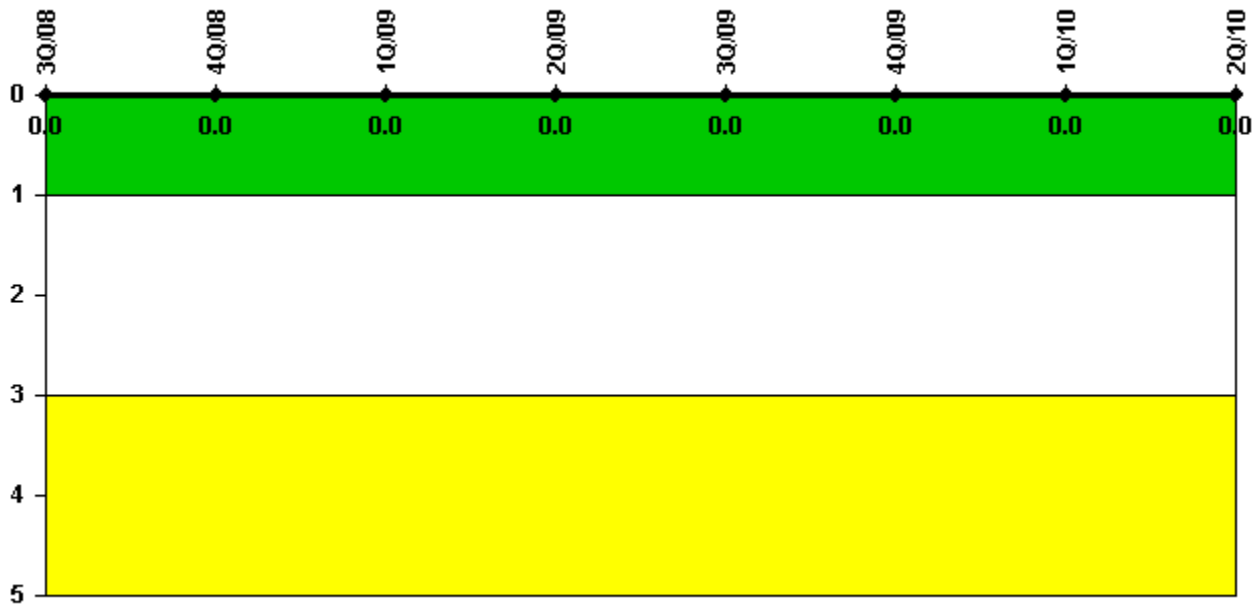
Thresholds: White > 2.0 Yellow > 5.0

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

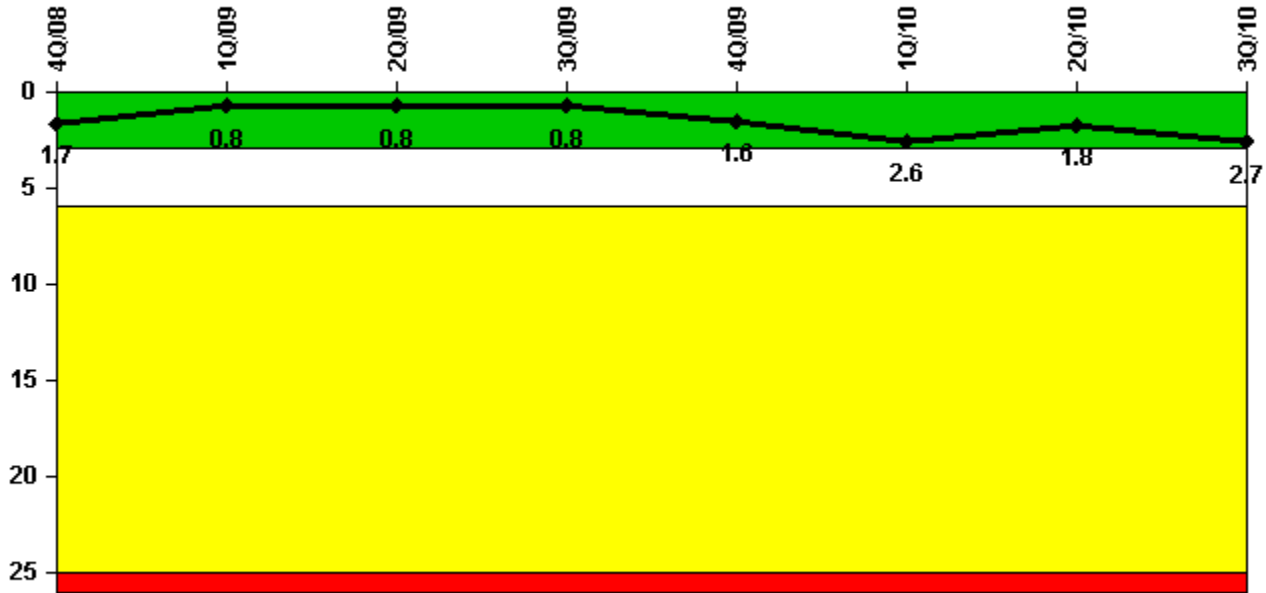
[Security](#) information not publicly available.

Indian Point 2

3Q/2010 Performance Indicators

Licensee's General Comments: PI IE01: An automatic reactor trip occurred on September 3, 2010 due to a steam generator high level trip when at approximately 41% power during power reduction for a planned forced outage.

Unplanned Scrams per 7000 Critical Hrs



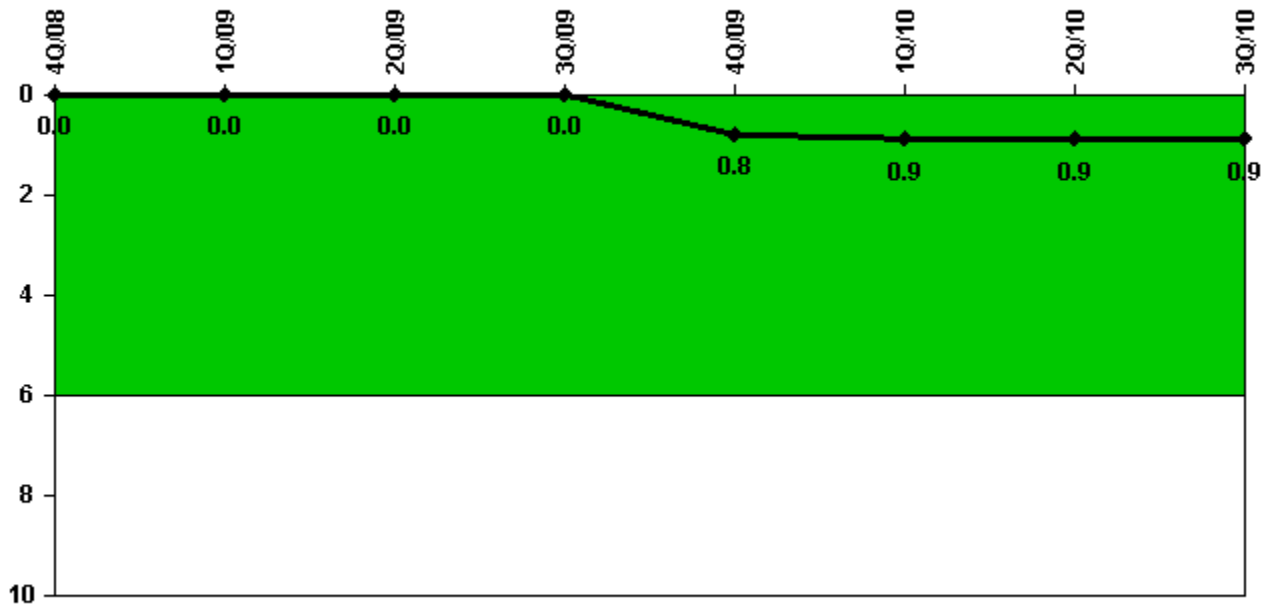
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	1.0	1.0	0	1.0
Critical hours	2209.0	2159.0	2160.3	2208.0	2177.4	1614.4	1953.4	1966.5
Indicator value	1.7	0.8	0.8	0.8	1.6	2.6	1.8	2.7

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



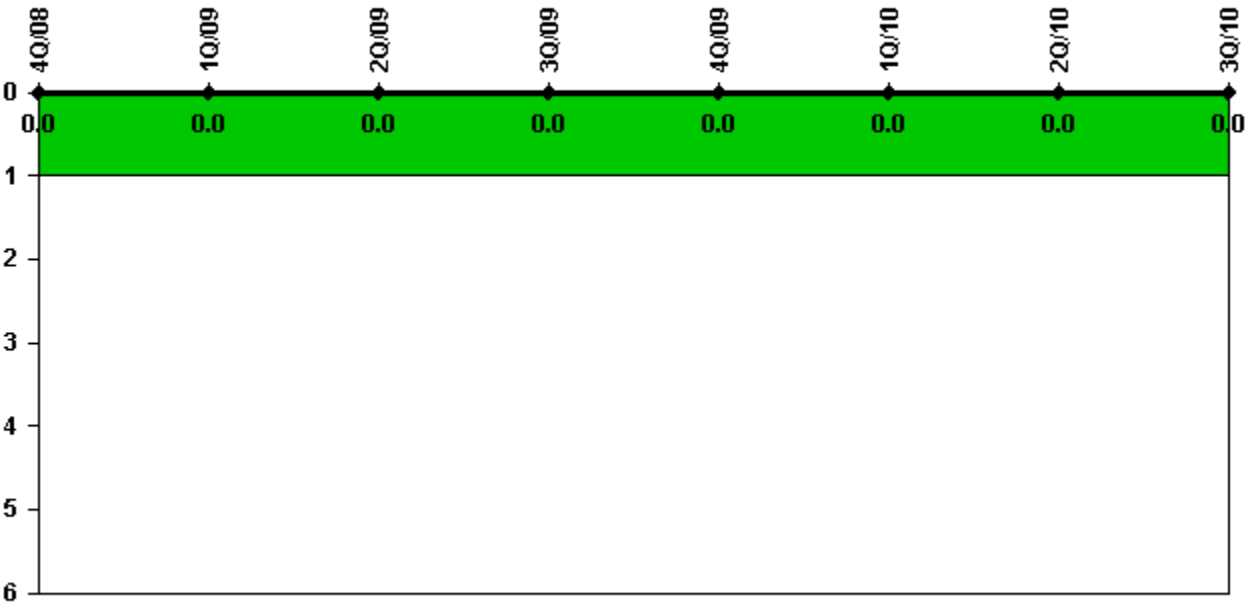
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2209.0	2159.0	2160.3	2208.0	2177.4	1614.4	1953.4	1966.5
Indicator value	0	0	0	0	0.8	0.9	0.9	0.9

Licensee Comments: none

Unplanned Scrams with Complications



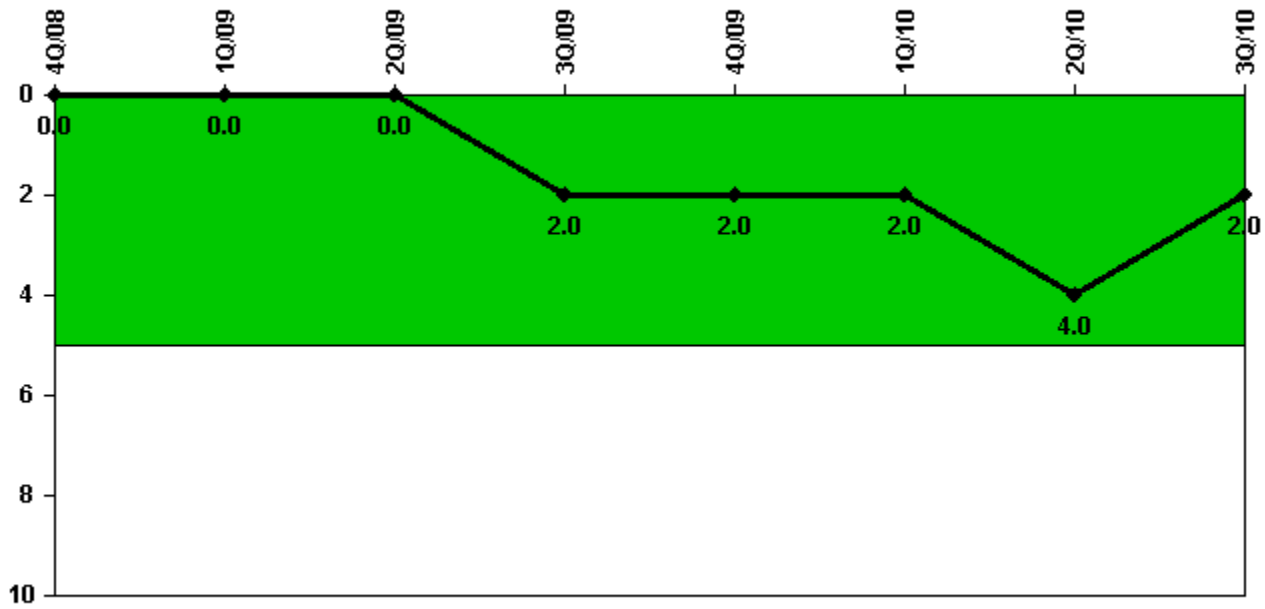
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



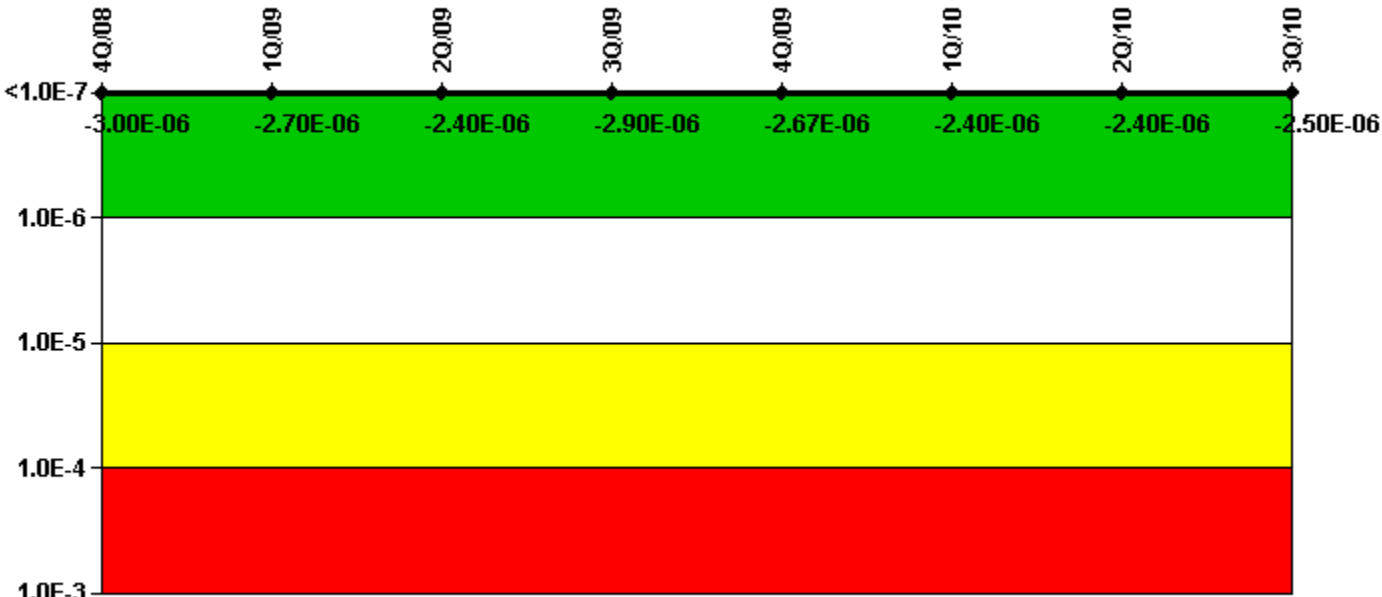
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

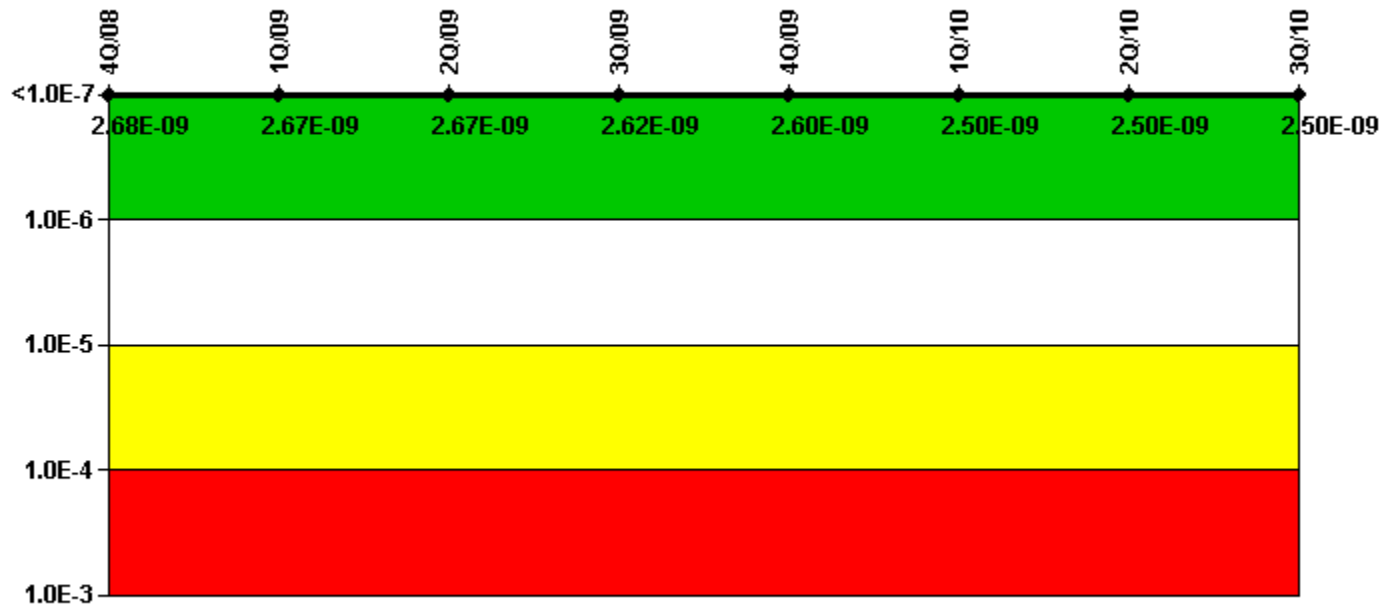
Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	8.00E-07	1.10E-06	1.10E-06	6.00E-07	7.30E-07	7.28E-07	6.75E-07	6.41E-07
URI (ΔCDF)	-3.80E-06	-3.80E-06	-3.50E-06	-3.50E-06	-3.40E-06	-3.09E-06	-3.12E-06	-3.12E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.00E-06	-2.70E-06	-2.40E-06	-2.90E-06	-2.67E-06	-2.40E-06	-2.40E-06	-2.50E-06

Licensee Comments:

3Q/10: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	-1.20E-10	-1.30E-10	-1.30E-10	-1.80E-10	-2.00E-10	-2.00E-10	-2.03E-10	-2.03E-10
URI (ΔCDF)	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.74E-09	2.72E-09	2.72E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.68E-09	2.67E-09	2.67E-09	2.62E-09	2.60E-09	2.50E-09	2.50E-09	2.50E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



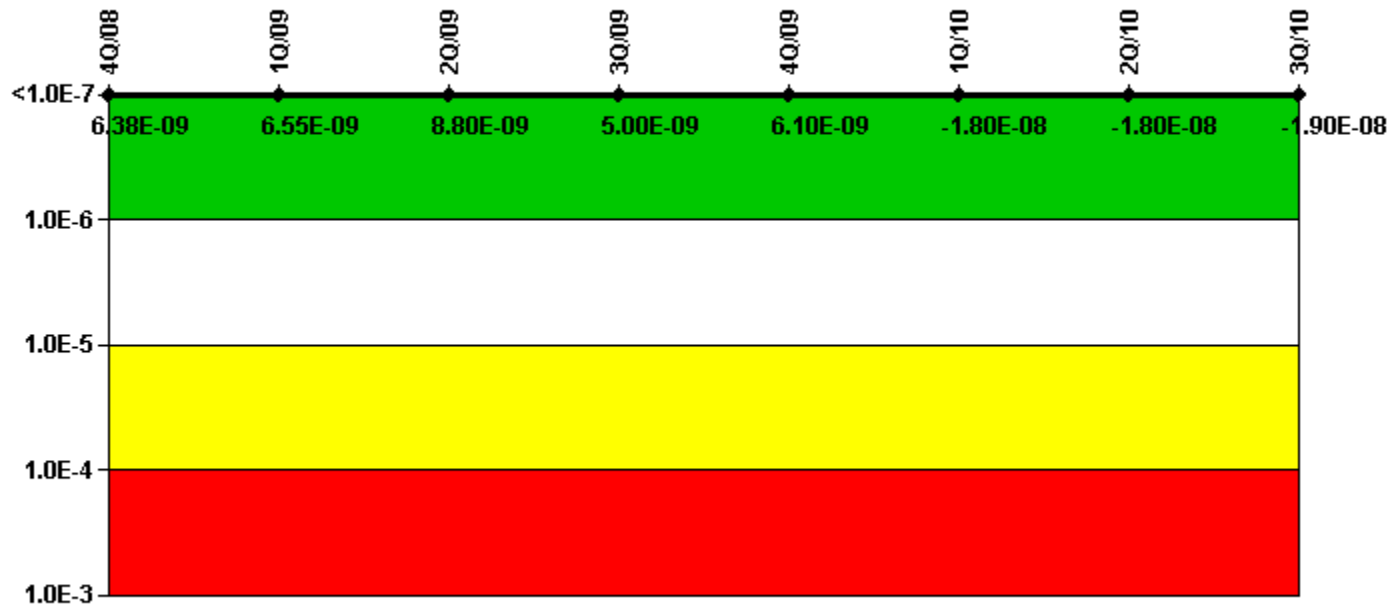
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	3.60E-07	6.30E-07	9.60E-08	-1.30E-08	2.60E-08	1.67E-07	3.61E-07	2.68E-07
URI (ΔCDF)	-1.20E-06	-1.10E-06	-1.00E-06	-9.60E-07	-9.10E-07	-9.36E-07	-1.00E-06	-1.01E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.40E-07	-4.70E-07	-9.04E-07	-9.73E-07	-8.84E-07	-7.70E-07	-6.40E-07	-7.40E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



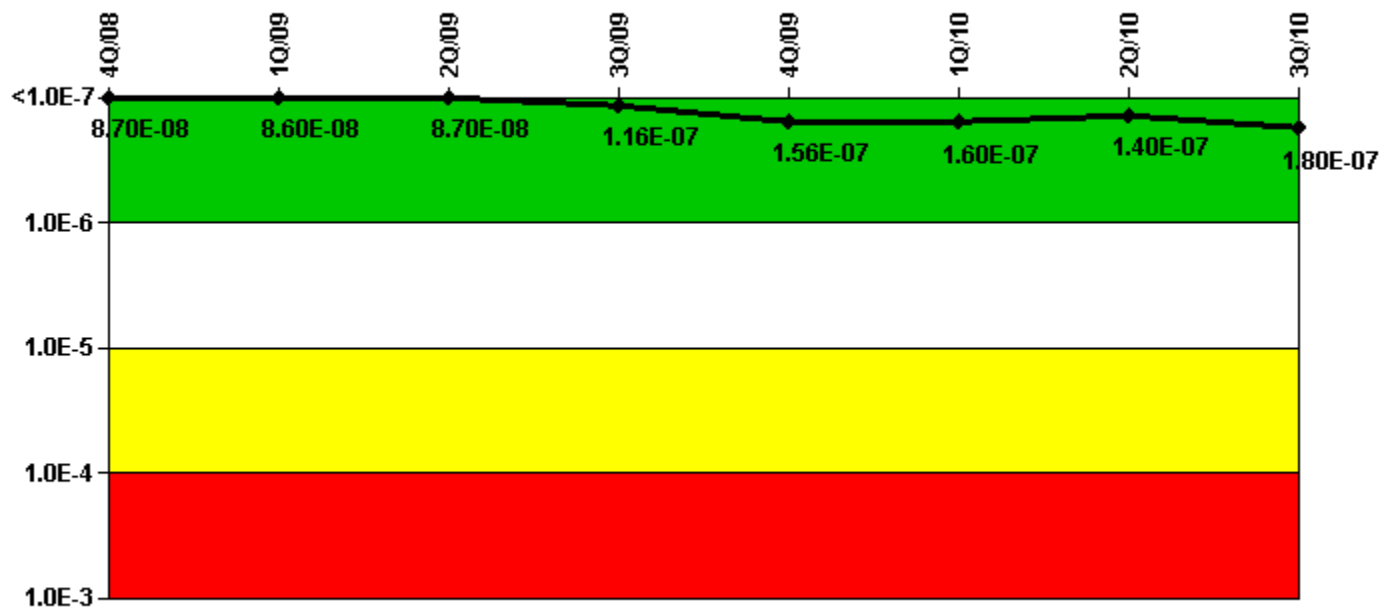
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (Δ CDF)	-9.20E-10	-9.50E-10	-1.20E-09	-6.00E-09	-5.90E-09	-5.84E-09	-5.77E-09	-5.73E-09
URI (Δ CDF)	7.30E-09	7.50E-09	1.00E-08	1.10E-08	1.20E-08	-1.19E-08	-1.27E-08	-1.31E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.38E-09	6.55E-09	8.80E-09	5.00E-09	6.10E-09	-1.80E-08	-1.80E-08	-1.90E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



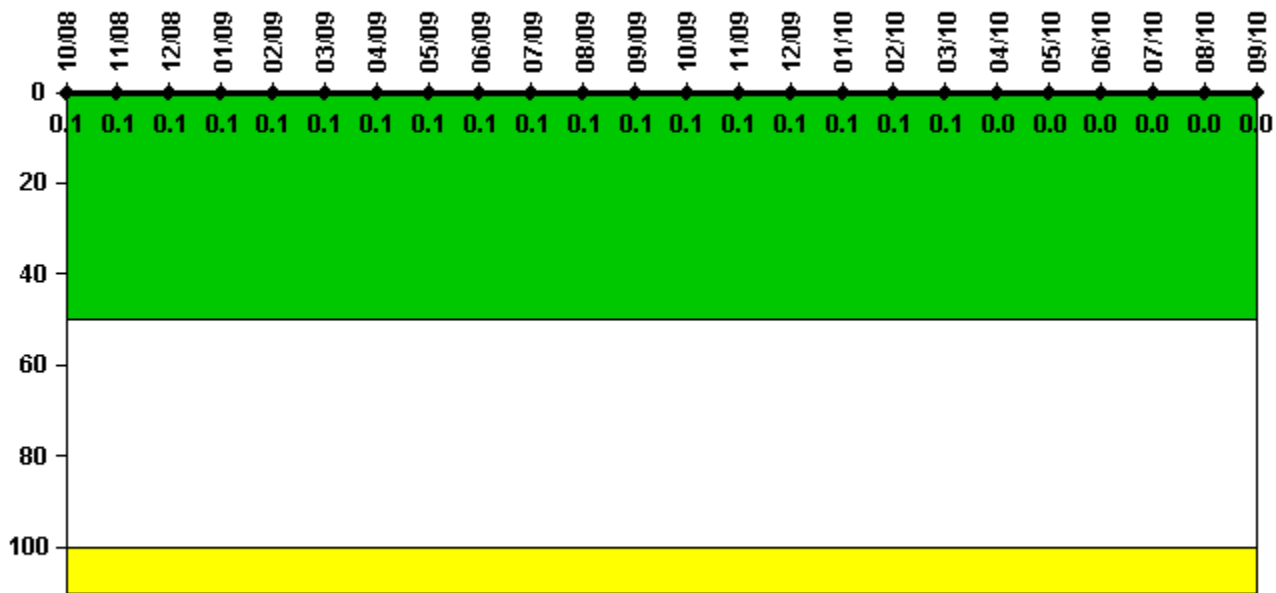
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	1.60E-08	1.50E-08	1.40E-08	1.60E-08	5.70E-08	5.96E-08	7.47E-08	8.53E-08
URI (ΔCDF)	7.10E-08	7.10E-08	7.30E-08	1.00E-07	9.90E-08	9.87E-08	6.63E-08	9.91E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.70E-08	8.60E-08	8.70E-08	1.16E-07	1.56E-07	1.60E-07	1.40E-07	1.80E-07

Licensee Comments: none

Reactor Coolant System Activity



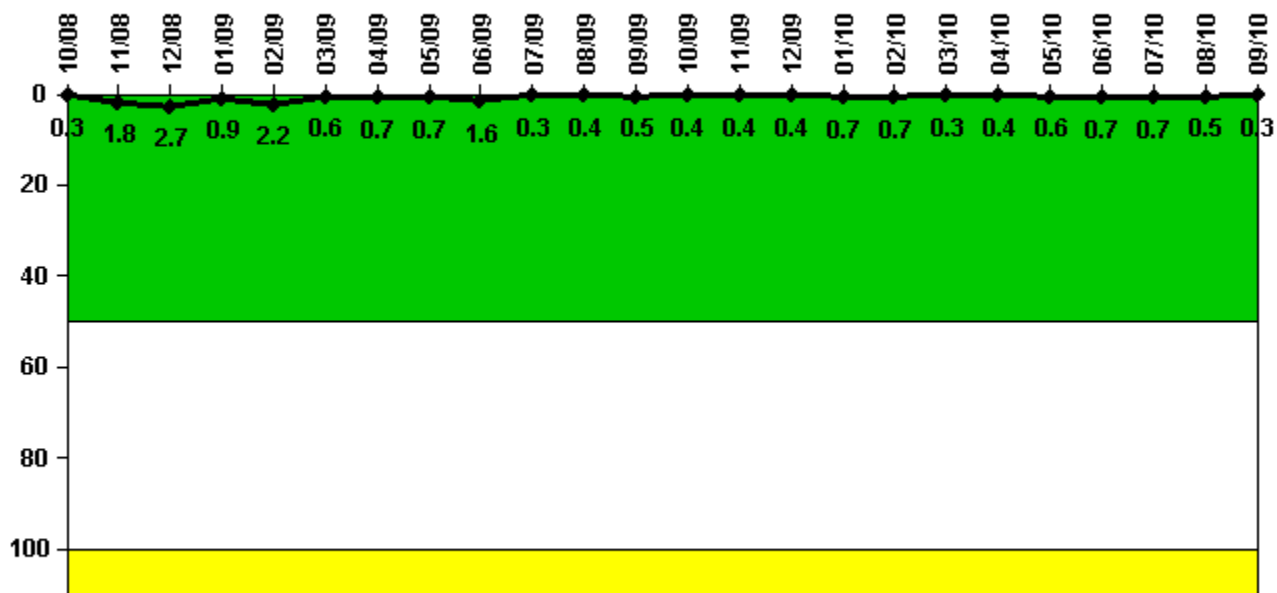
Thresholds: White > 50.0 Yellow > 100.0

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	0.000667	0.000608	0.000647	0.000627	0.000653	0.000690	0.000740	0.000733	0.000725	0.000809	0.000816	0.000795
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum activity	0.000839	0.000789	0.000918	0.000882	0.000897	0.000936	0.000342	0.000268	0.000286	0.000293	0.000311	0.000304
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



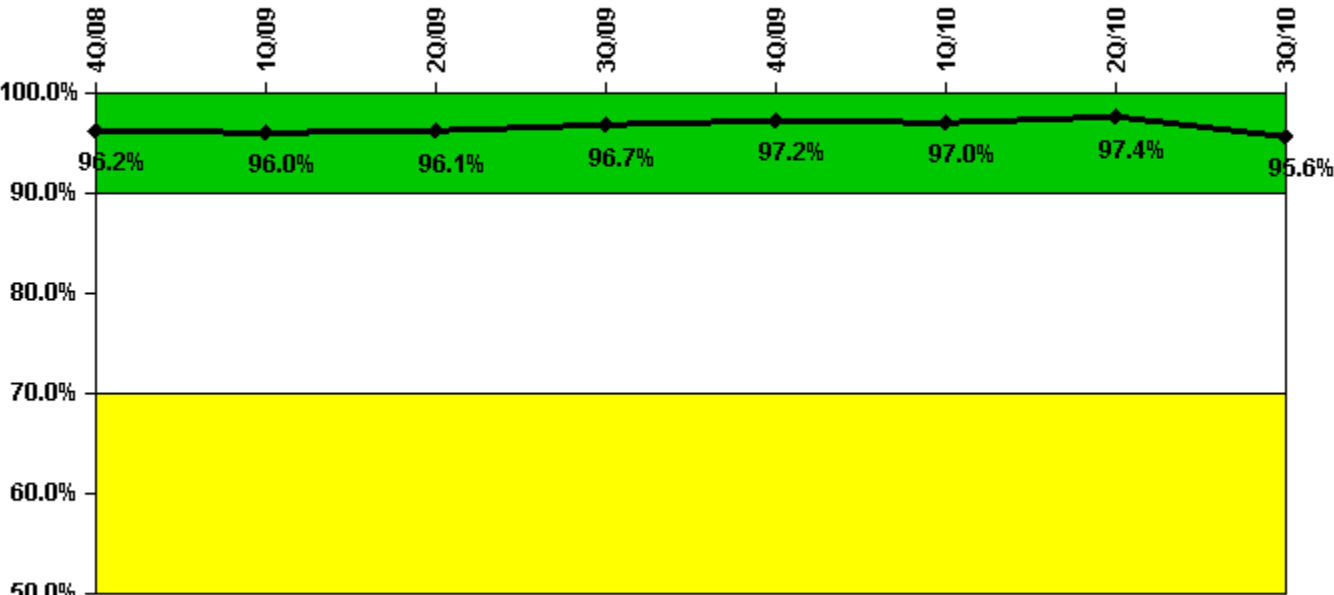
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum leakage	0.030	0.180	0.270	0.090	0.220	0.060	0.070	0.070	0.160	0.030	0.040	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.3	1.8	2.7	0.9	2.2	0.6	0.7	0.7	1.6	0.3	0.4	0.5
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	0.040	0.040	0.040	0.070	0.070	0.030	0.040	0.060	0.070	0.070	0.050	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	0.4	0.4	0.4	0.7	0.7	0.3	0.4	0.6	0.7	0.7	0.5	0.3

Licensee Comments: none

Drill/Exercise Performance



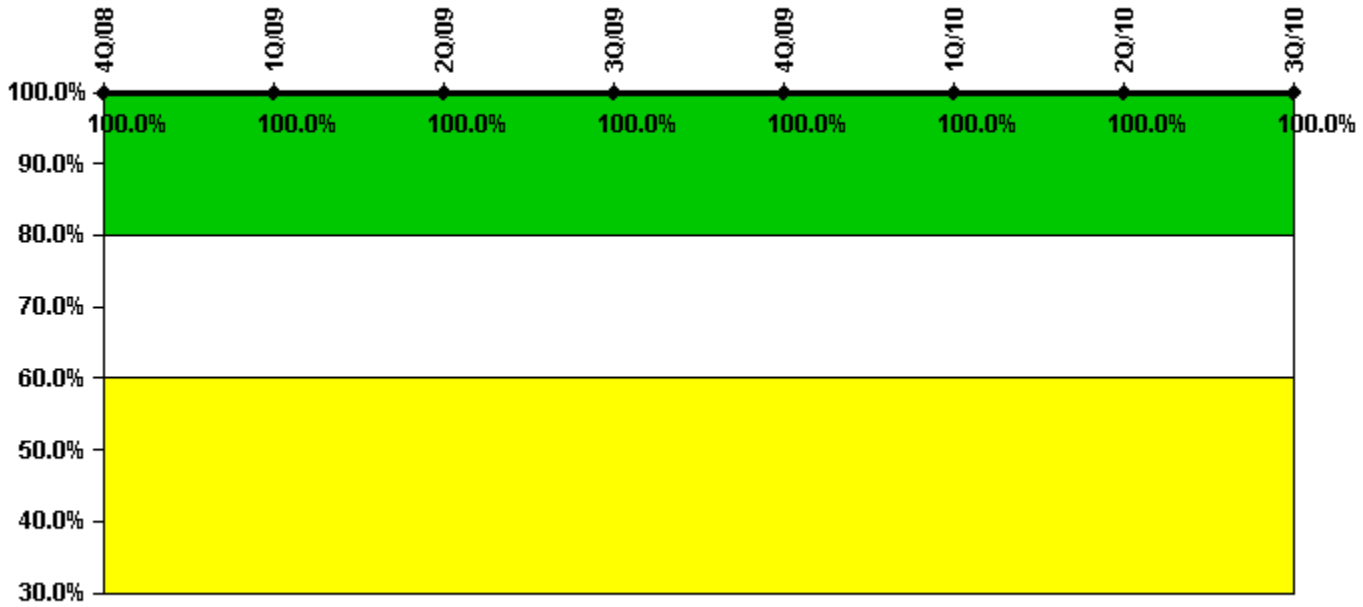
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful opportunities	74.0	22.0	38.0	95.0	62.0	17.0	46.0	97.0
Total opportunities	76.0	24.0	38.0	96.0	64.0	18.0	48.0	108.0
Indicator value	96.2%	96.0%	96.1%	96.7%	97.2%	97.0%	97.4%	95.6%

Licensee Comments: none

ERO Drill Participation



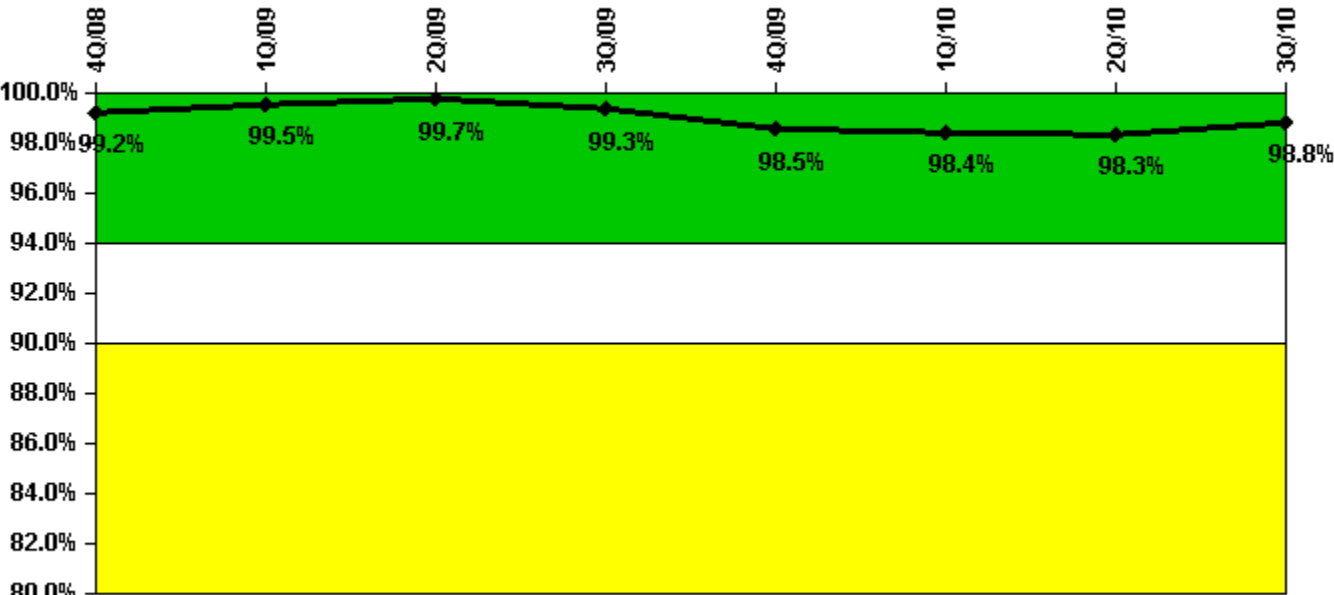
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Participating Key personnel	93.0	94.0	98.0	100.0	103.0	108.0	113.0	107.0
Total Key personnel	93.0	94.0	98.0	100.0	103.0	108.0	113.0	107.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



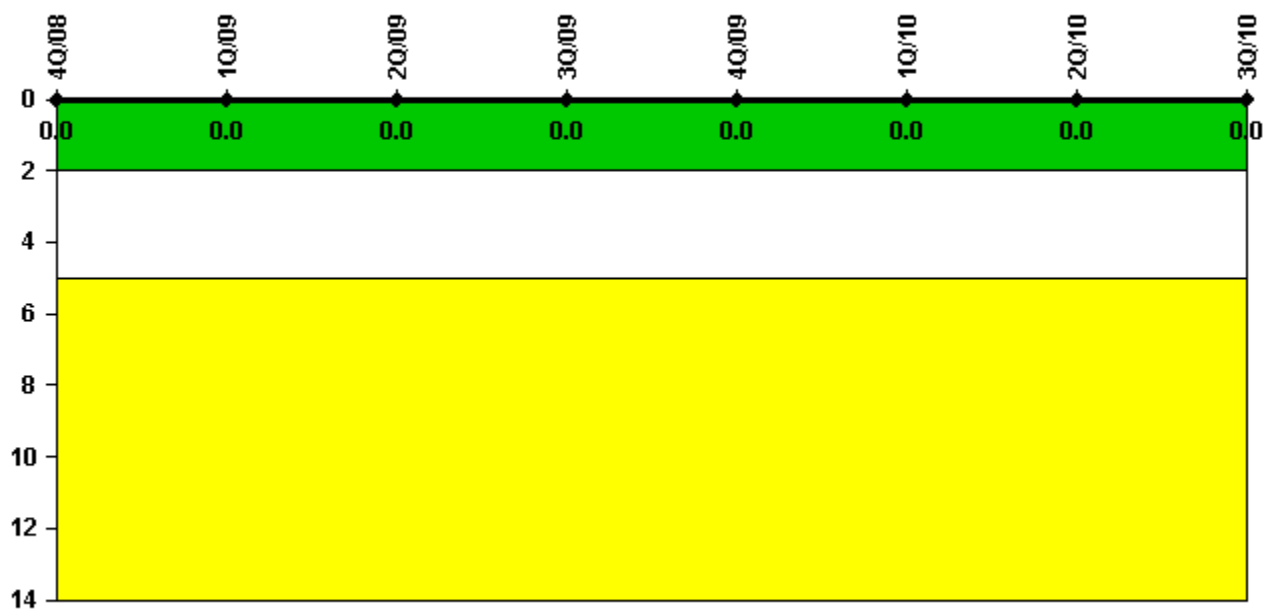
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful siren-tests	1220	1156	1200	1159	1121	1014	878	1065
Total sirens-tests	1225	1158	1204	1181	1163	1018	881	1066
Indicator value	99.2%	99.5%	99.7%	99.3%	98.5%	98.4%	98.3%	98.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



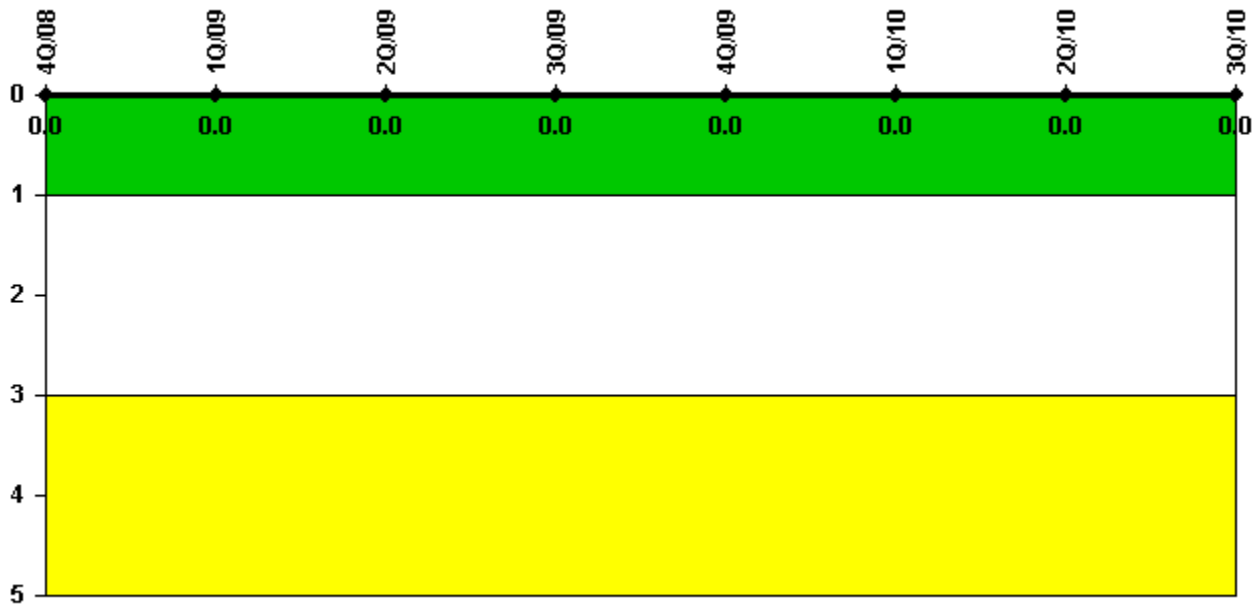
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

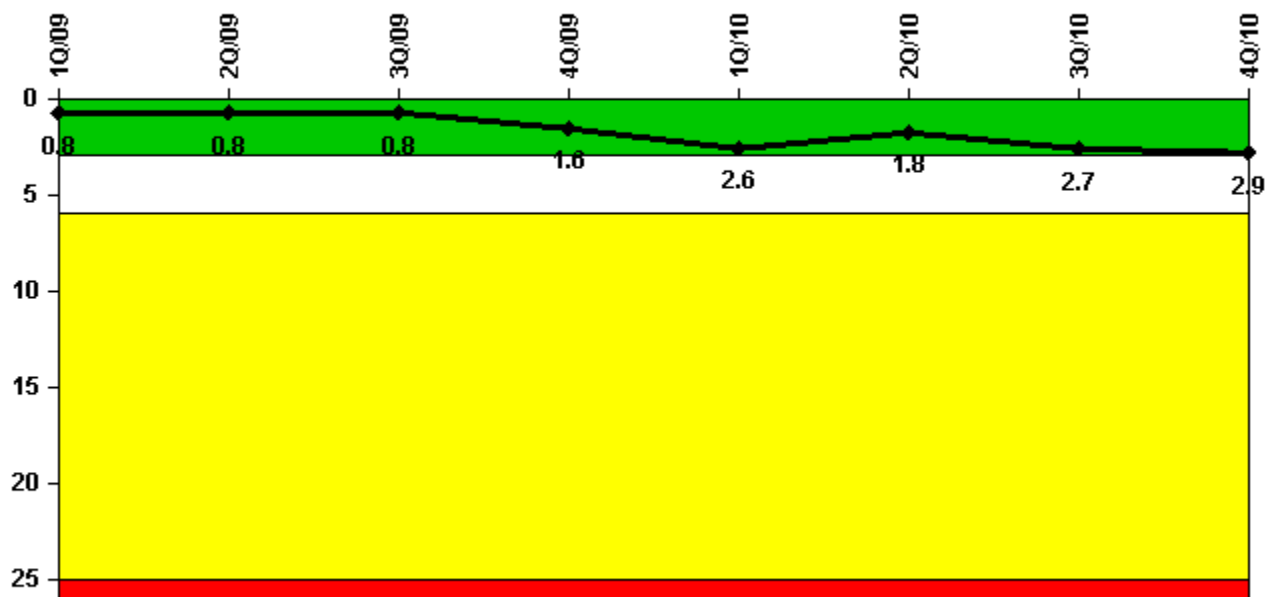
[Security](#) information not publicly available.

Indian Point 2

4Q/2010 Performance Indicators

Licensee's General Comments: PI IE01: Automatic Reactor Trip on November 7, 2010, due to a fault in the 21 Main Trasformer caused by a failure of the Phase B bushing. LER-2010-009 reported this event. PI IE03: Initiated an unplanned power reduction due to a trip of the 21 Heater Drain Tank pump on December 30, 2010.

Unplanned Scrams per 7000 Critical Hrs



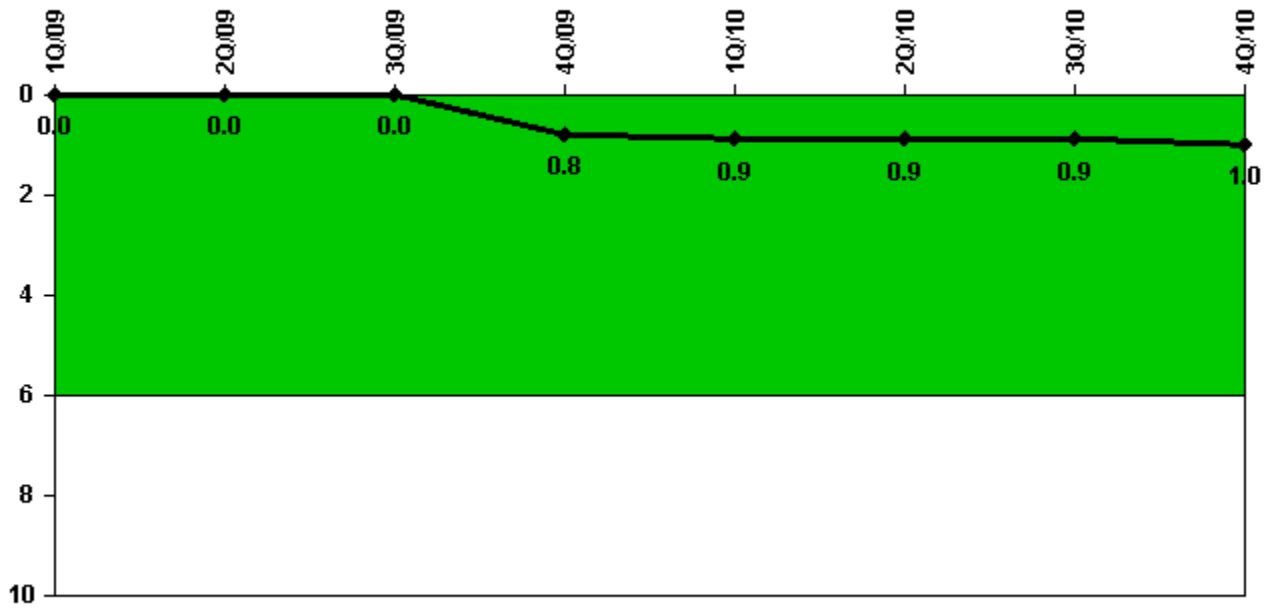
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	1.0	1.0	0	1.0	1.0
Critical hours	2159.0	2160.3	2208.0	2177.4	1614.4	1953.4	1966.5	1832.8
Indicator value	0.8	0.8	0.8	1.6	2.6	1.8	2.7	2.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



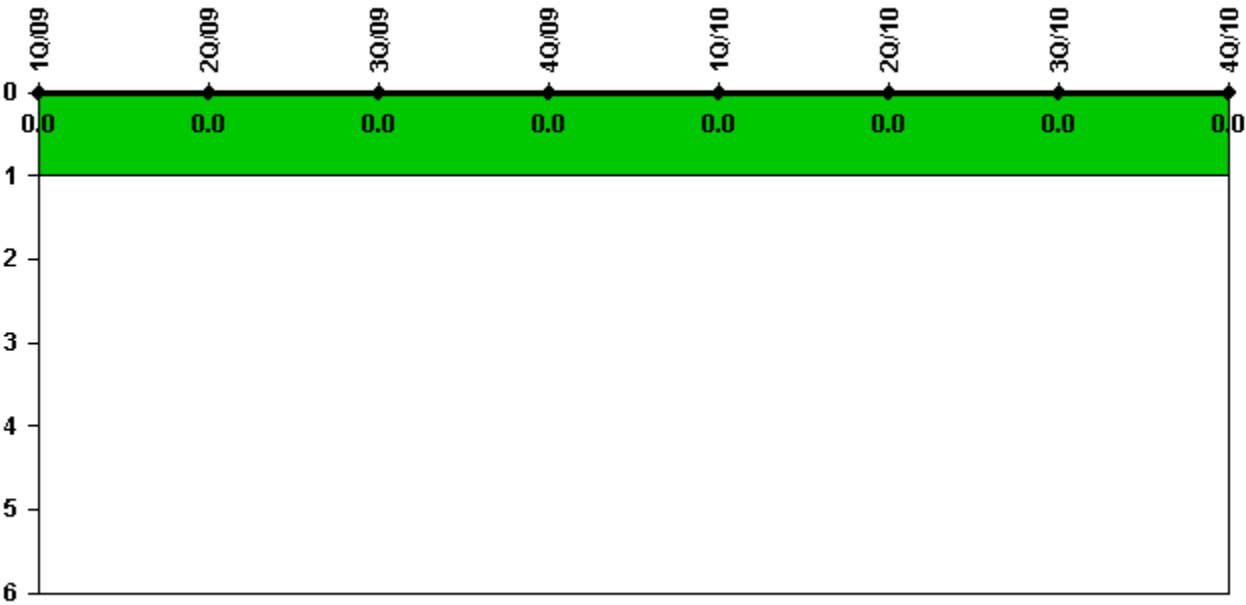
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned power changes	0	0	0	1.0	0	0	0	1.0
Critical hours	2159.0	2160.3	2208.0	2177.4	1614.4	1953.4	1966.5	1832.8
Indicator value	0	0	0	0.8	0.9	0.9	0.9	1.0

Licensee Comments: none

Unplanned Scrams with Complications



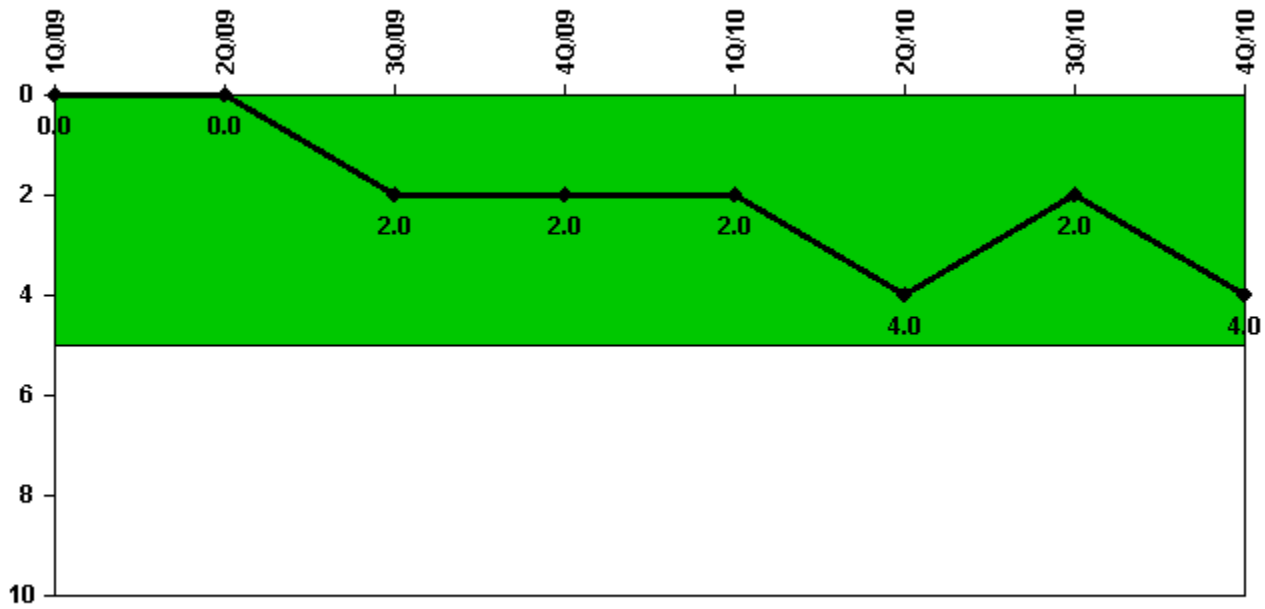
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



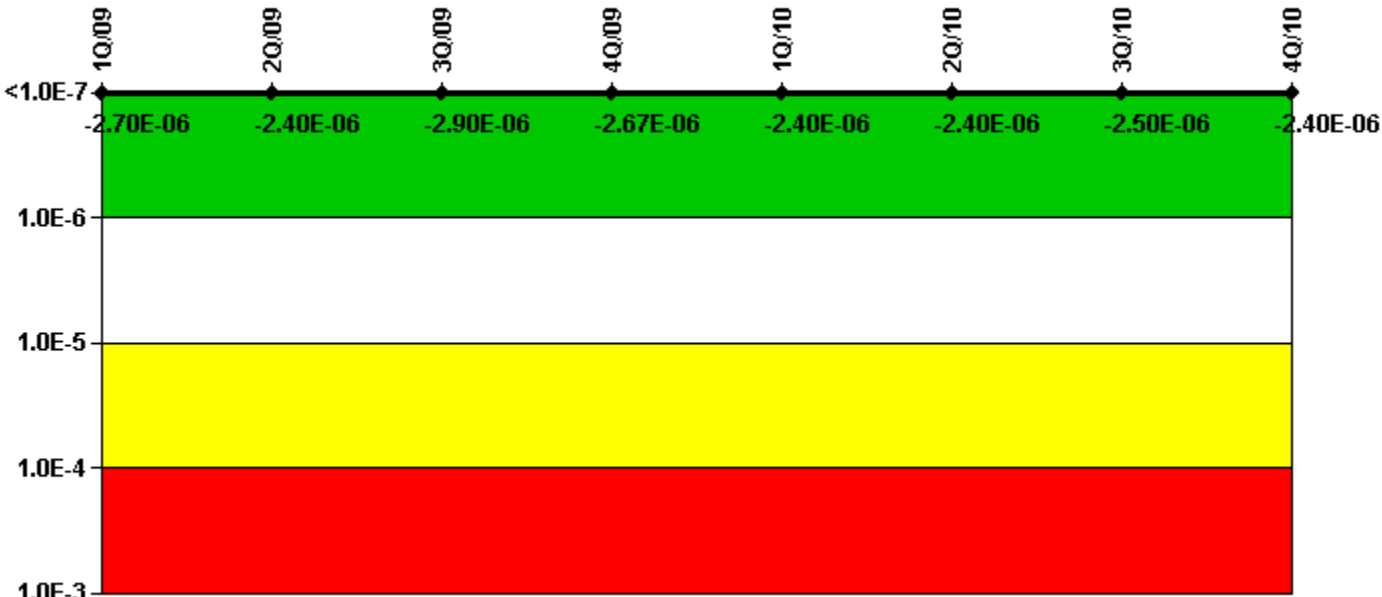
Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

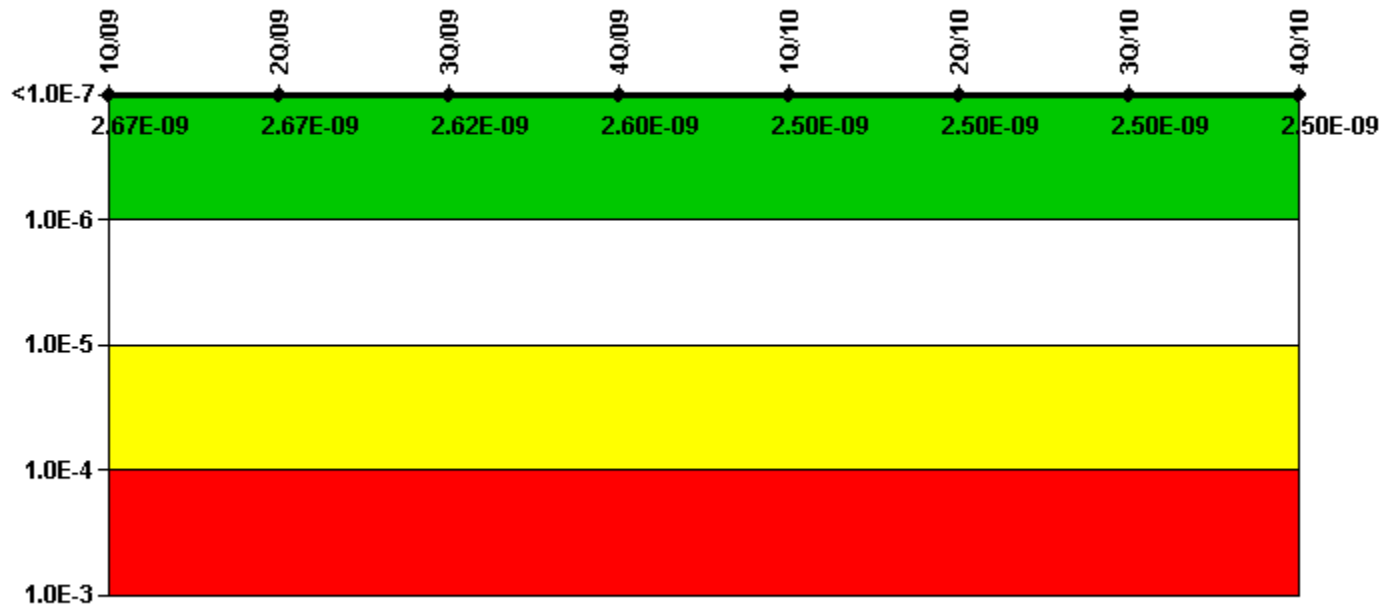
Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (ΔCDF)	1.10E-06	1.10E-06	6.00E-07	7.30E-07	7.28E-07	6.75E-07	6.41E-07	7.42E-07
URI (ΔCDF)	-3.80E-06	-3.50E-06	-3.50E-06	-3.40E-06	-3.09E-06	-3.12E-06	-3.12E-06	-3.13E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.70E-06	-2.40E-06	-2.90E-06	-2.67E-06	-2.40E-06	-2.40E-06	-2.50E-06	-2.40E-06

Licensee Comments:

4Q/10: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



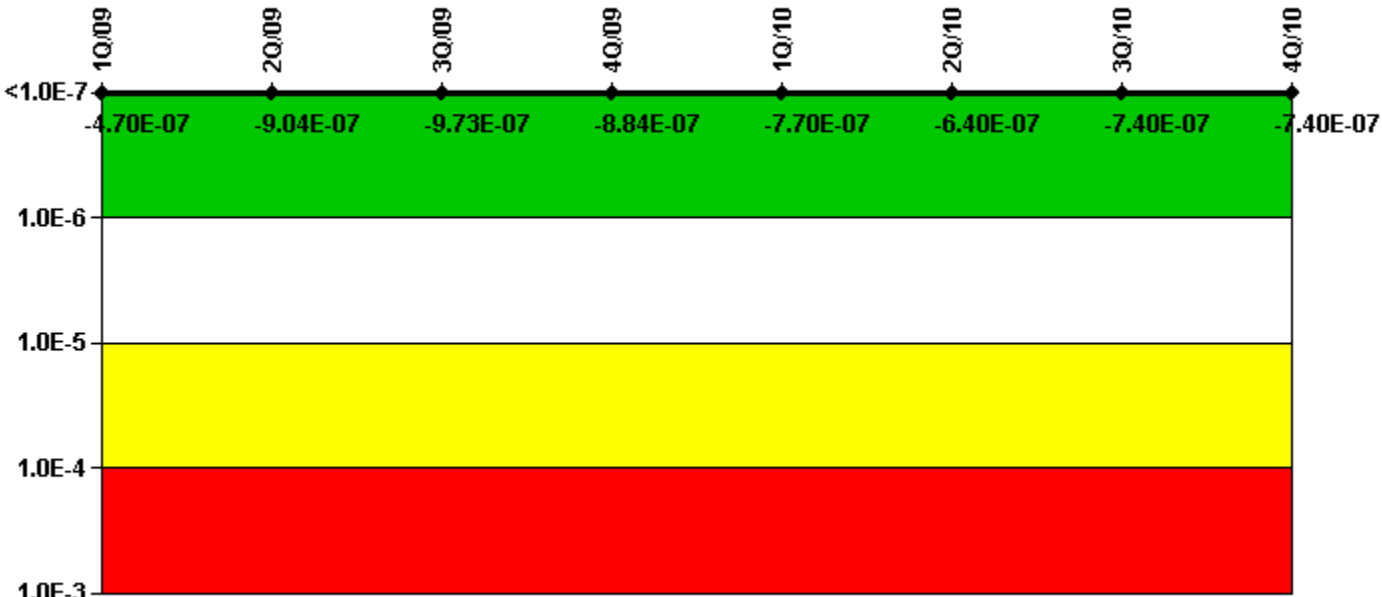
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (ΔCDF)	-1.30E-10	-1.30E-10	-1.80E-10	-2.00E-10	-2.00E-10	-2.03E-10	-2.03E-10	-2.03E-10
URI (ΔCDF)	2.80E-09	2.80E-09	2.80E-09	2.80E-09	2.74E-09	2.72E-09	2.72E-09	2.71E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.67E-09	2.67E-09	2.62E-09	2.60E-09	2.50E-09	2.50E-09	2.50E-09	2.50E-09

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



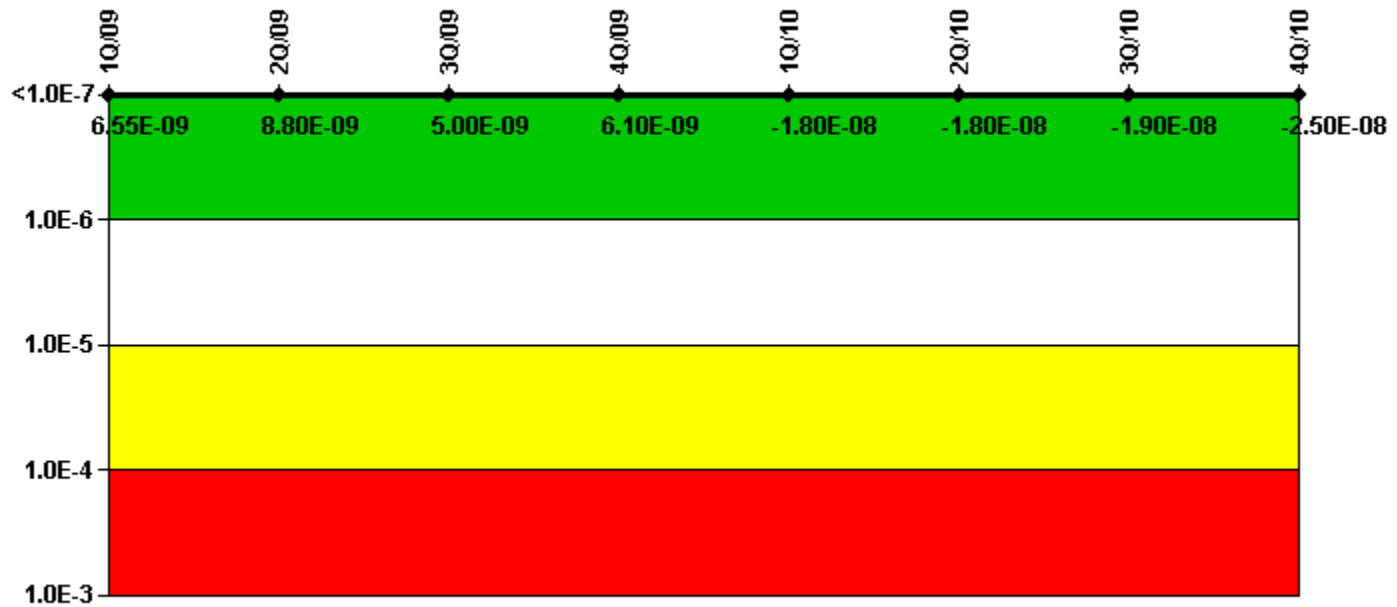
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (ΔCDF)	6.30E-07	9.60E-08	-1.30E-08	2.60E-08	1.67E-07	3.61E-07	2.68E-07	3.16E-07
URI (ΔCDF)	-1.10E-06	-1.00E-06	-9.60E-07	-9.10E-07	-9.36E-07	-1.00E-06	-1.01E-06	-1.05E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.70E-07	-9.04E-07	-9.73E-07	-8.84E-07	-7.70E-07	-6.40E-07	-7.40E-07	-7.40E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



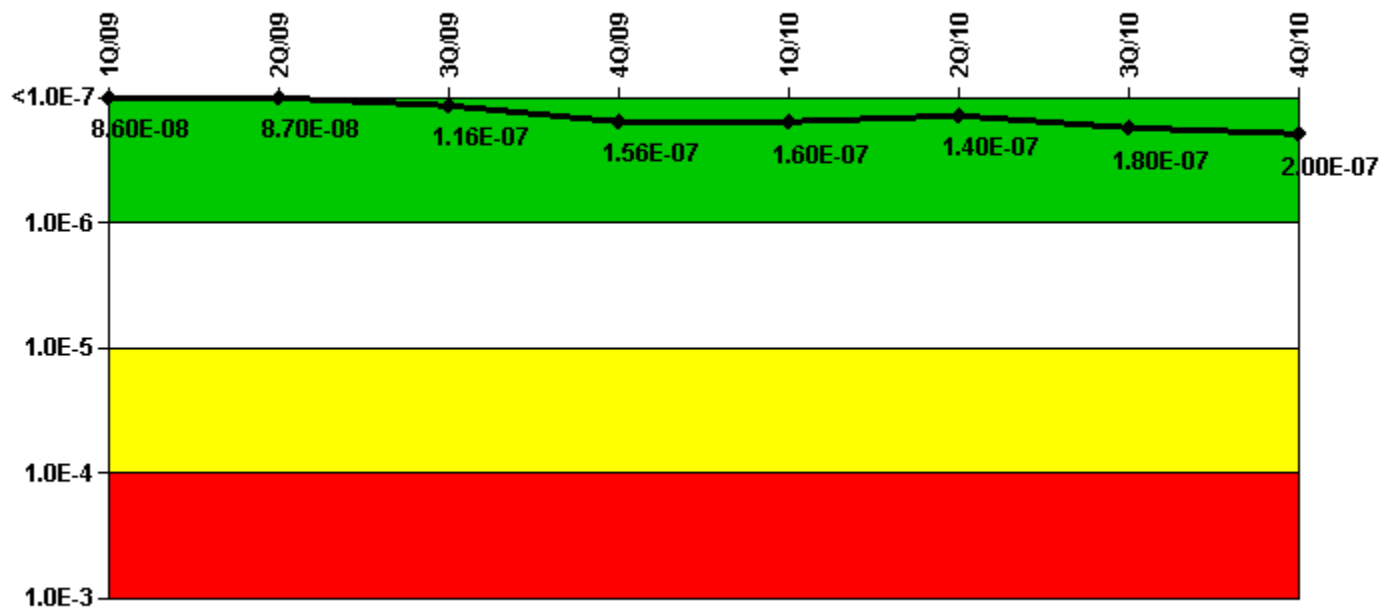
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (ΔCDF)	-9.50E-10	-1.20E-09	-6.00E-09	-5.90E-09	-5.84E-09	-5.77E-09	-5.73E-09	-1.09E-08
URI (ΔCDF)	7.50E-09	1.00E-08	1.10E-08	1.20E-08	-1.19E-08	-1.27E-08	-1.31E-08	-1.37E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.55E-09	8.80E-09	5.00E-09	6.10E-09	-1.80E-08	-1.80E-08	-1.90E-08	-2.50E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



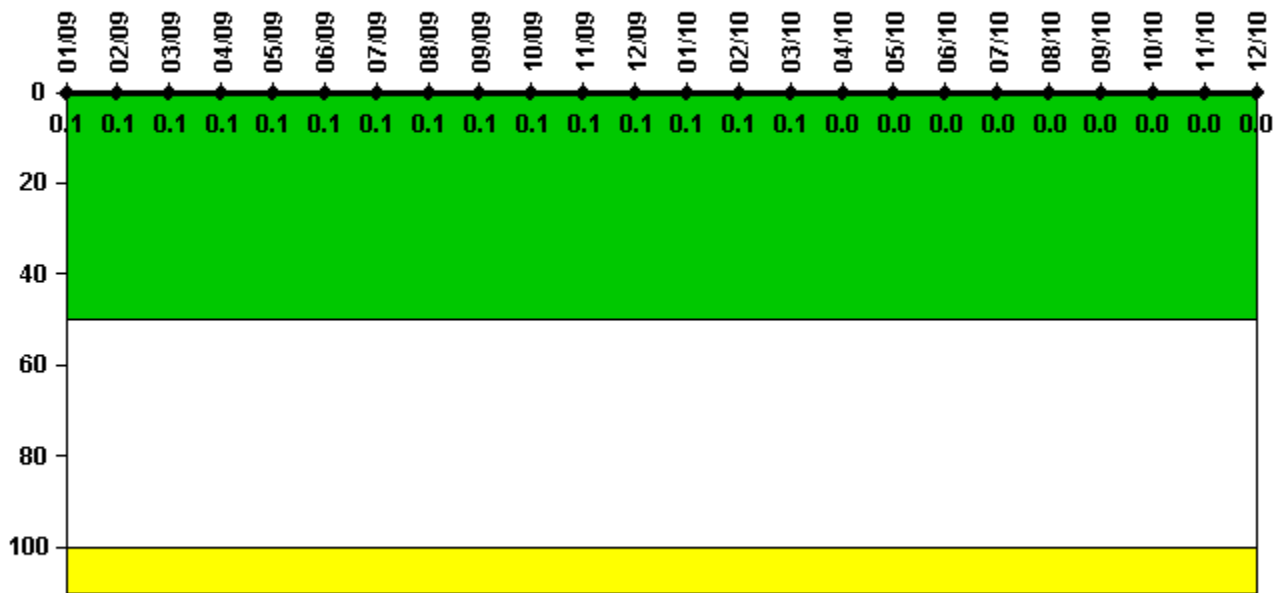
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (ΔCDF)	1.50E-08	1.40E-08	1.60E-08	5.70E-08	5.96E-08	7.47E-08	8.53E-08	1.01E-07
URI (ΔCDF)	7.10E-08	7.30E-08	1.00E-07	9.90E-08	9.87E-08	6.63E-08	9.91E-08	1.03E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.60E-08	8.70E-08	1.16E-07	1.56E-07	1.60E-07	1.40E-07	1.80E-07	2.00E-07

Licensee Comments: none

Reactor Coolant System Activity



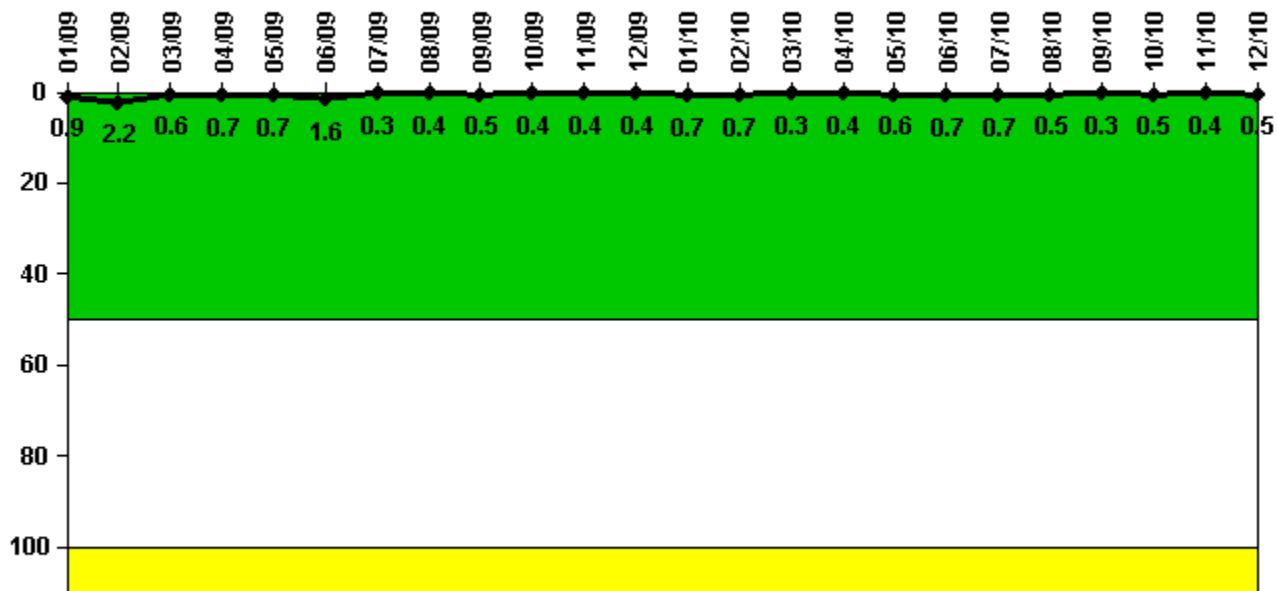
Thresholds: White > 50.0 Yellow > 100.0

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	0.000627	0.000653	0.000690	0.000740	0.000733	0.000725	0.000809	0.000816	0.000795	0.000839	0.000789	0.000918
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum activity	0.000882	0.000897	0.000936	0.000342	0.000268	0.000286	0.000293	0.000311	0.000304	0.000333	0.000325	0.000350
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



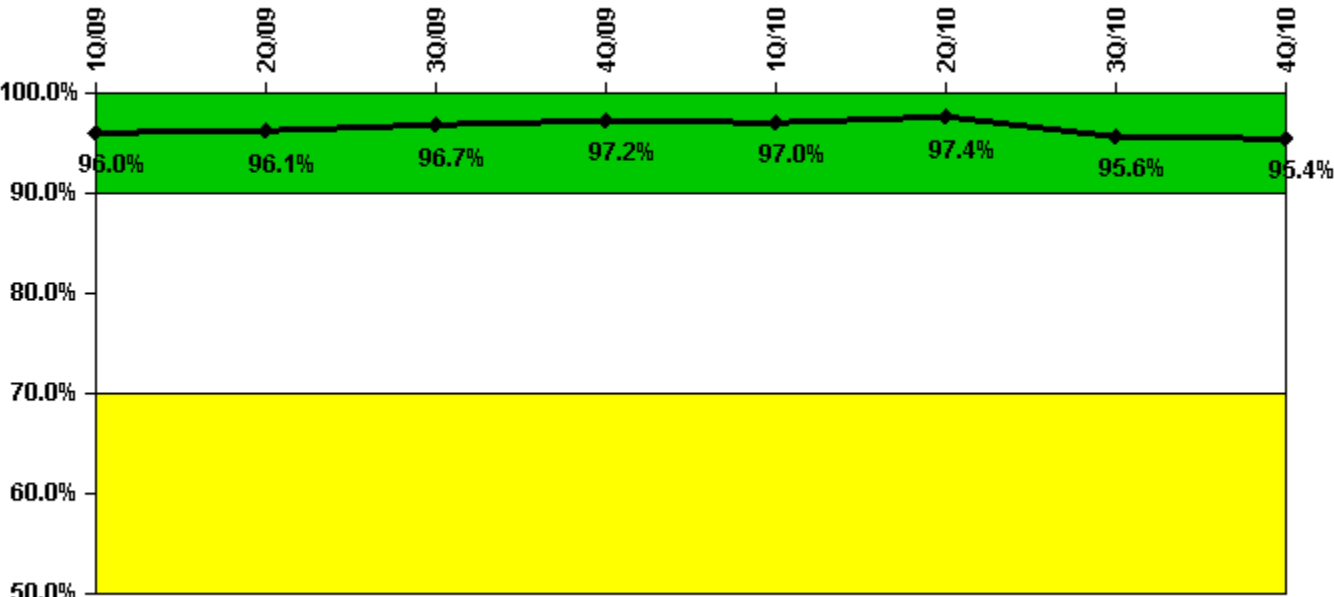
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum leakage	0.090	0.220	0.060	0.070	0.070	0.160	0.030	0.040	0.050	0.040	0.040	0.040
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.9	2.2	0.6	0.7	0.7	1.6	0.3	0.4	0.5	0.4	0.4	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	0.070	0.070	0.030	0.040	0.060	0.070	0.070	0.050	0.030	0.050	0.040	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.7	0.3	0.4	0.6	0.7	0.7	0.5	0.3	0.5	0.4	0.5

Licensee Comments: none

Drill/Exercise Performance



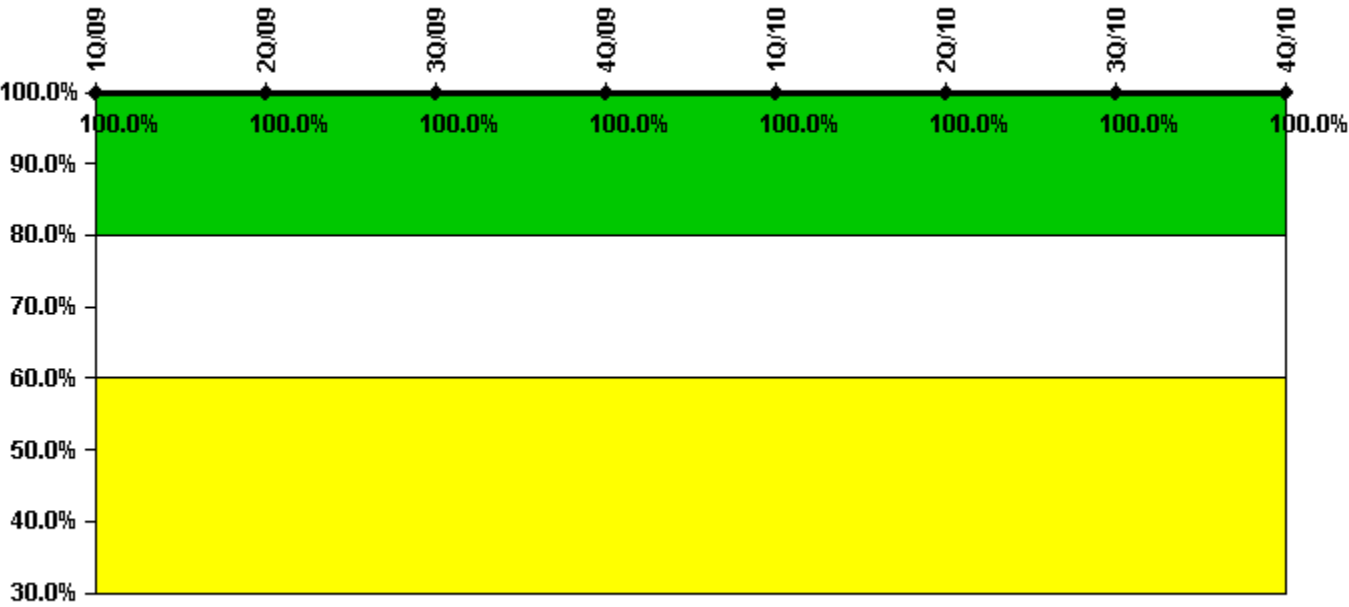
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful opportunities	22.0	38.0	95.0	62.0	17.0	46.0	97.0	54.0
Total opportunities	24.0	38.0	96.0	64.0	18.0	48.0	108.0	56.0
Indicator value	96.0%	96.1%	96.7%	97.2%	97.0%	97.4%	95.6%	95.4%

Licensee Comments: none

ERO Drill Participation



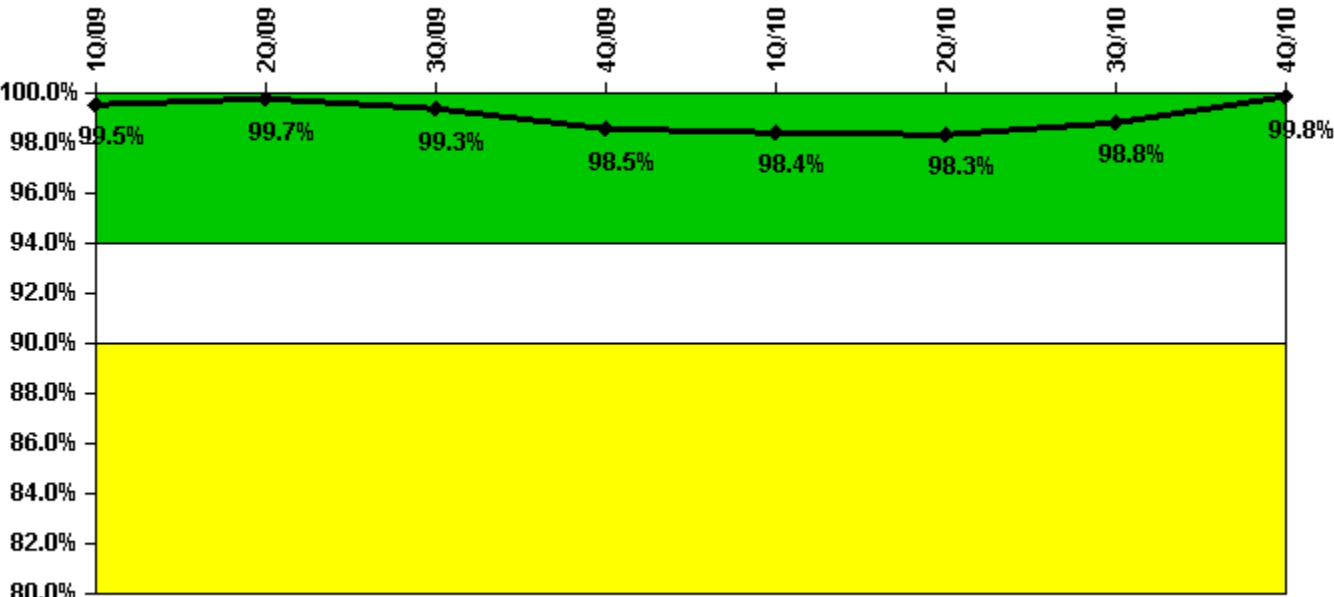
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Participating Key personnel	94.0	98.0	100.0	103.0	108.0	113.0	107.0	104.0
Total Key personnel	94.0	98.0	100.0	103.0	108.0	113.0	107.0	104.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



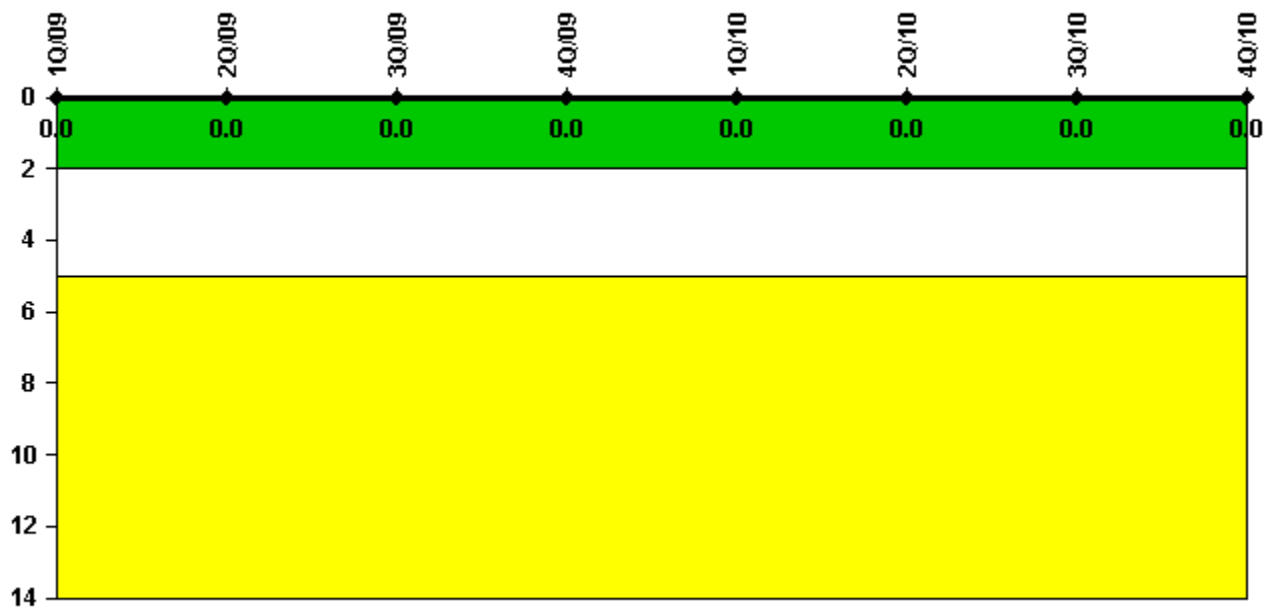
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful siren-tests	1156	1200	1159	1121	1014	878	1065	956
Total sirens-tests	1158	1204	1181	1163	1018	881	1066	957
Indicator value	99.5%	99.7%	99.3%	98.5%	98.4%	98.3%	98.8%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



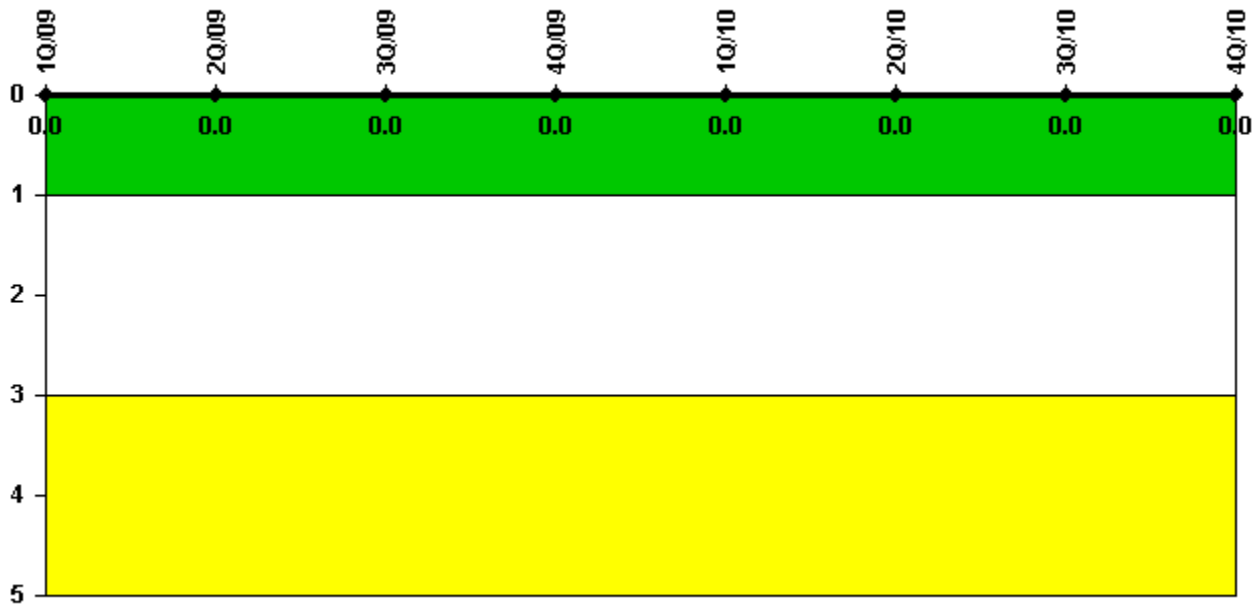
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

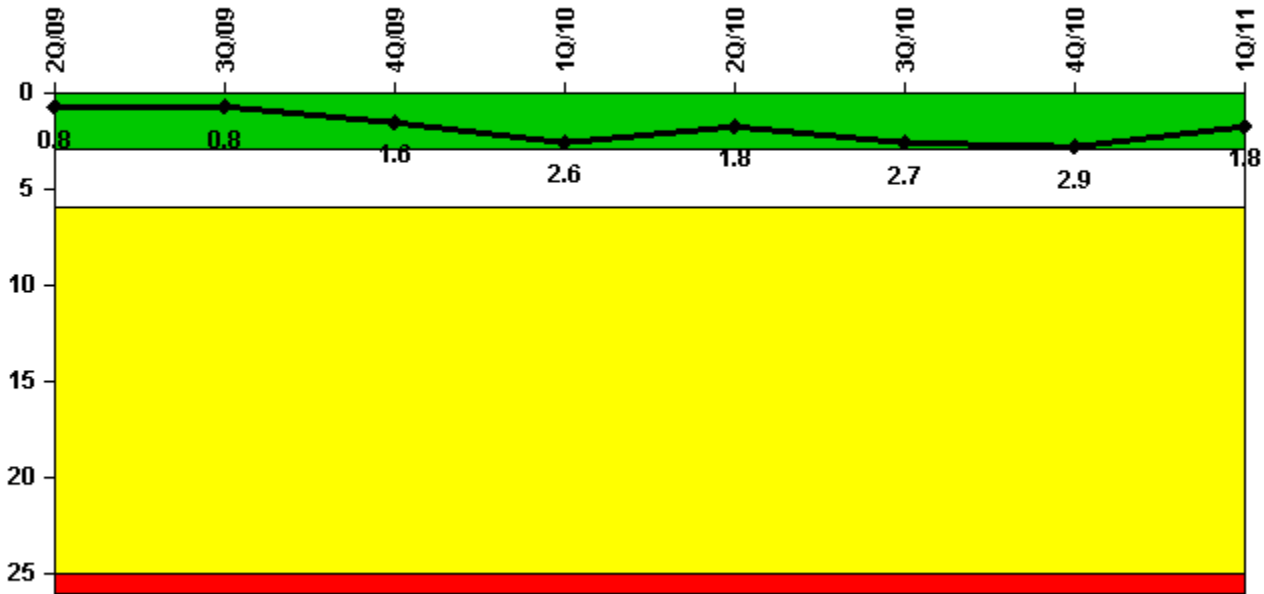
[Security](#) information not publicly available.

Indian Point 2

1Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



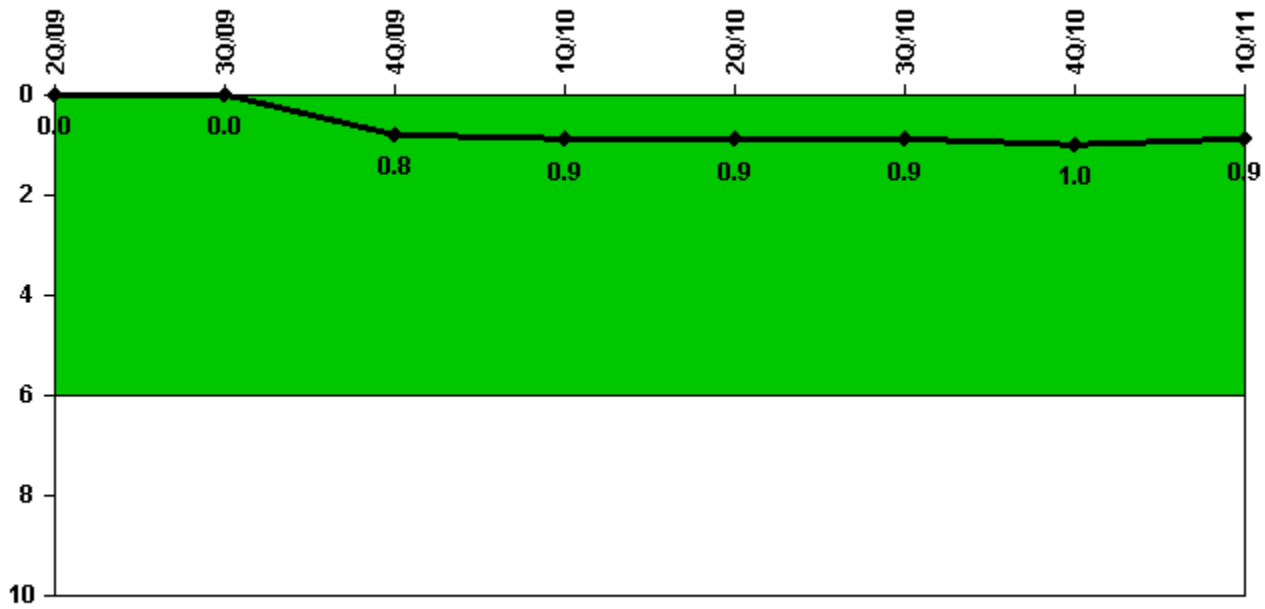
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned scrams	1.0	0	1.0	1.0	0	1.0	1.0	0
Critical hours	2160.3	2208.0	2177.4	1614.4	1953.4	1966.5	1832.8	2159.0
Indicator value	0.8	0.8	1.6	2.6	1.8	2.7	2.9	1.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



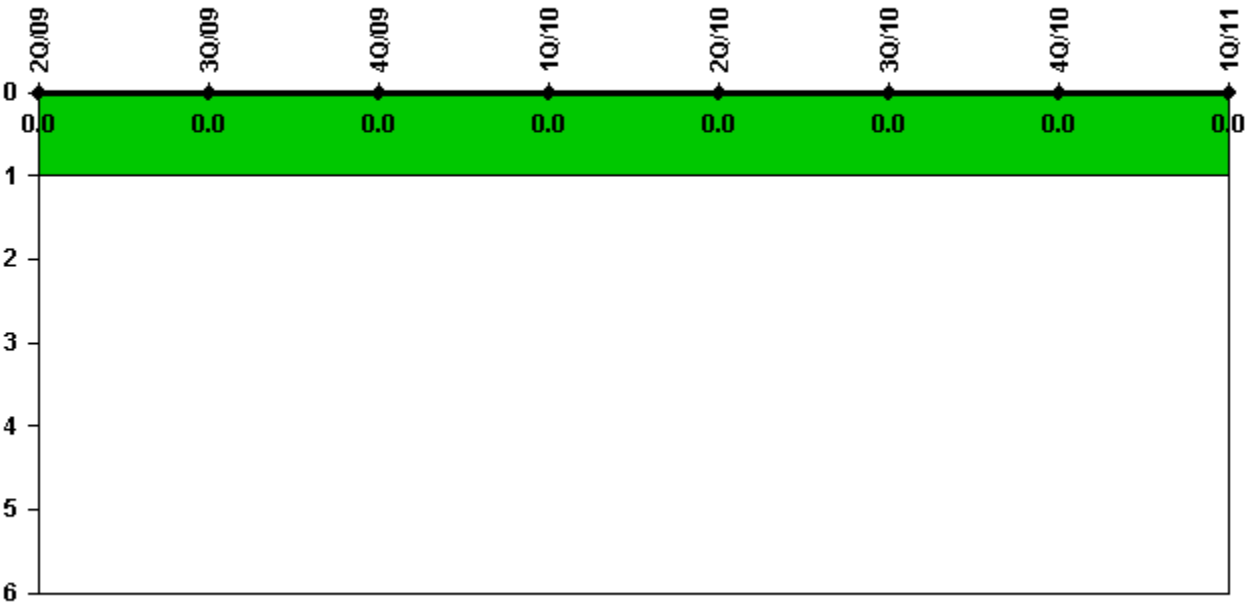
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned power changes	0	0	1.0	0	0	0	1.0	0
Critical hours	2160.3	2208.0	2177.4	1614.4	1953.4	1966.5	1832.8	2159.0
Indicator value	0	0	0.8	0.9	0.9	0.9	1.0	0.9

Licensee Comments: none

Unplanned Scrams with Complications



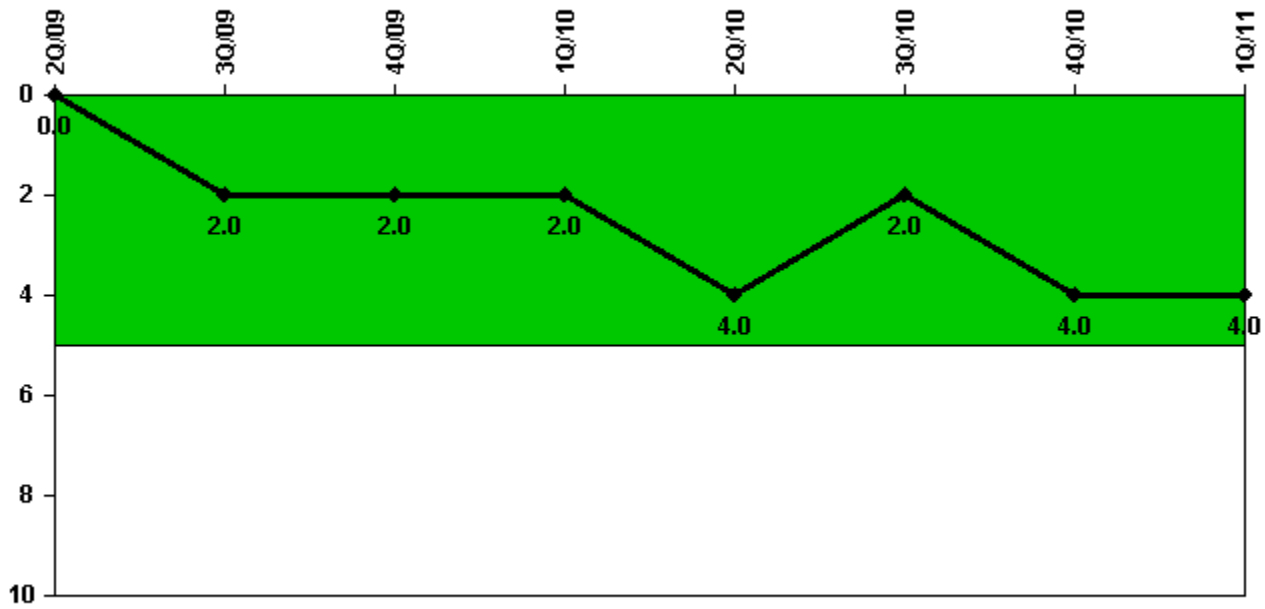
Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)



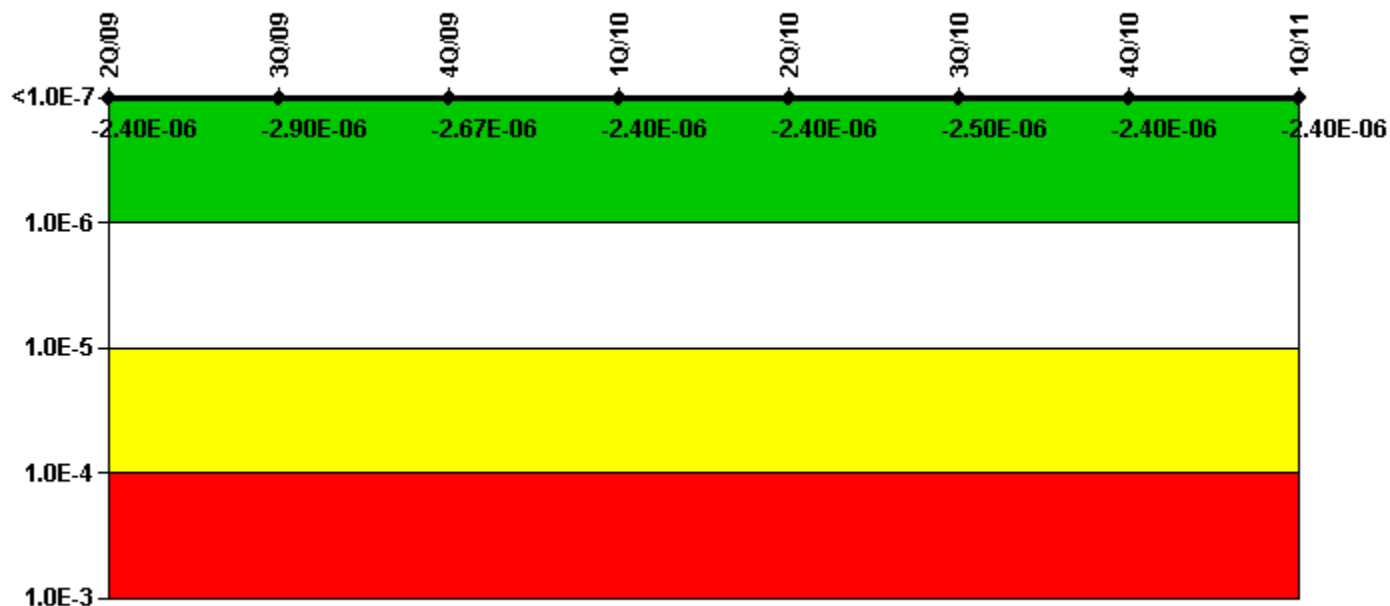
Thresholds: White > 5.0

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	2	0	0	2	0	2	0
Indicator value	0	2	2	2	4	2	4	4

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

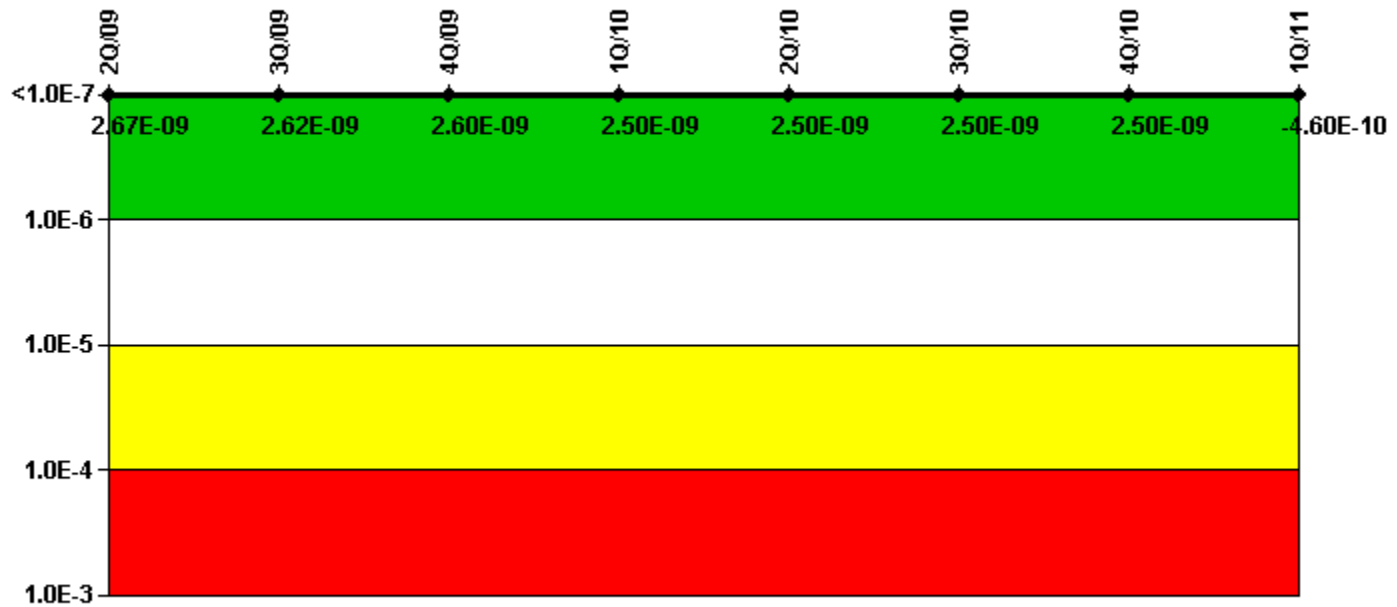
Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	1.10E-06	6.00E-07	7.30E-07	7.28E-07	6.75E-07	6.41E-07	7.42E-07	6.97E-07
URI (ΔCDF)	-3.50E-06	-3.50E-06	-3.40E-06	-3.09E-06	-3.12E-06	-3.12E-06	-3.13E-06	-3.12E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-06	-2.90E-06	-2.67E-06	-2.40E-06	-2.40E-06	-2.50E-06	-2.40E-06	-2.40E-06

Licensee Comments:

1Q/11: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



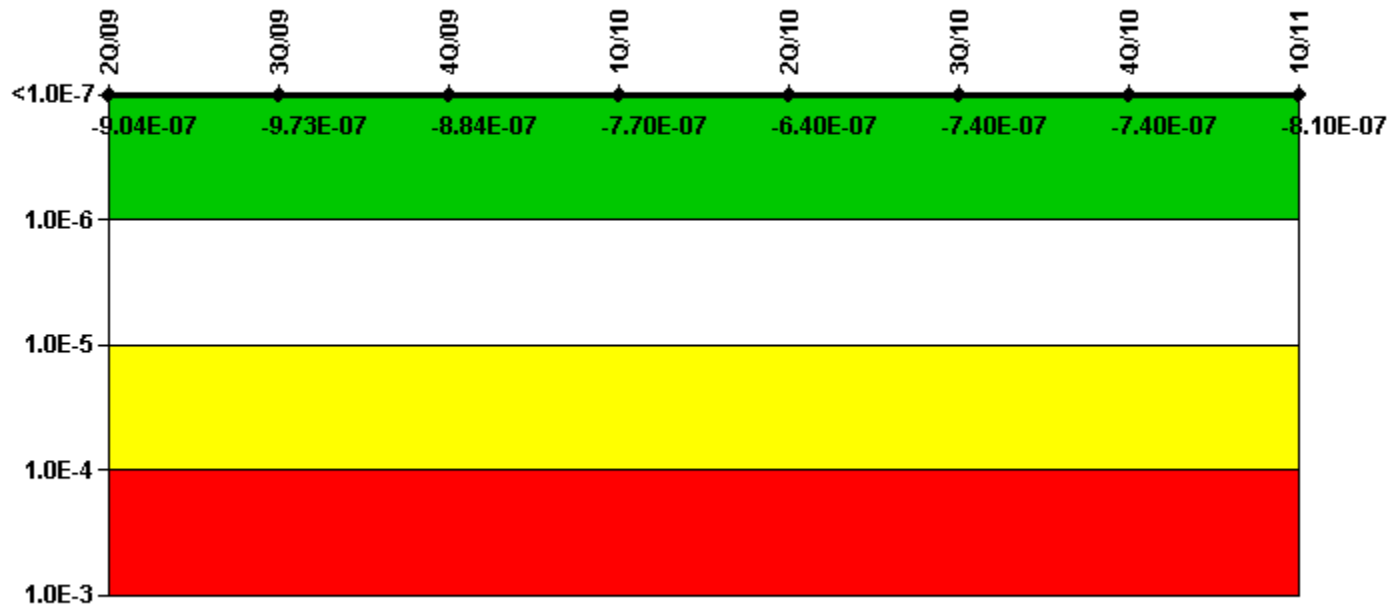
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	-1.30E-10	-1.80E-10	-2.00E-10	-2.00E-10	-2.03E-10	-2.03E-10	-2.03E-10	-2.03E-10
URI (Δ CDF)	2.80E-09	2.80E-09	2.80E-09	2.74E-09	2.72E-09	2.72E-09	2.71E-09	-2.56E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.67E-09	2.62E-09	2.60E-09	2.50E-09	2.50E-09	2.50E-09	2.50E-09	-4.60E-10

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



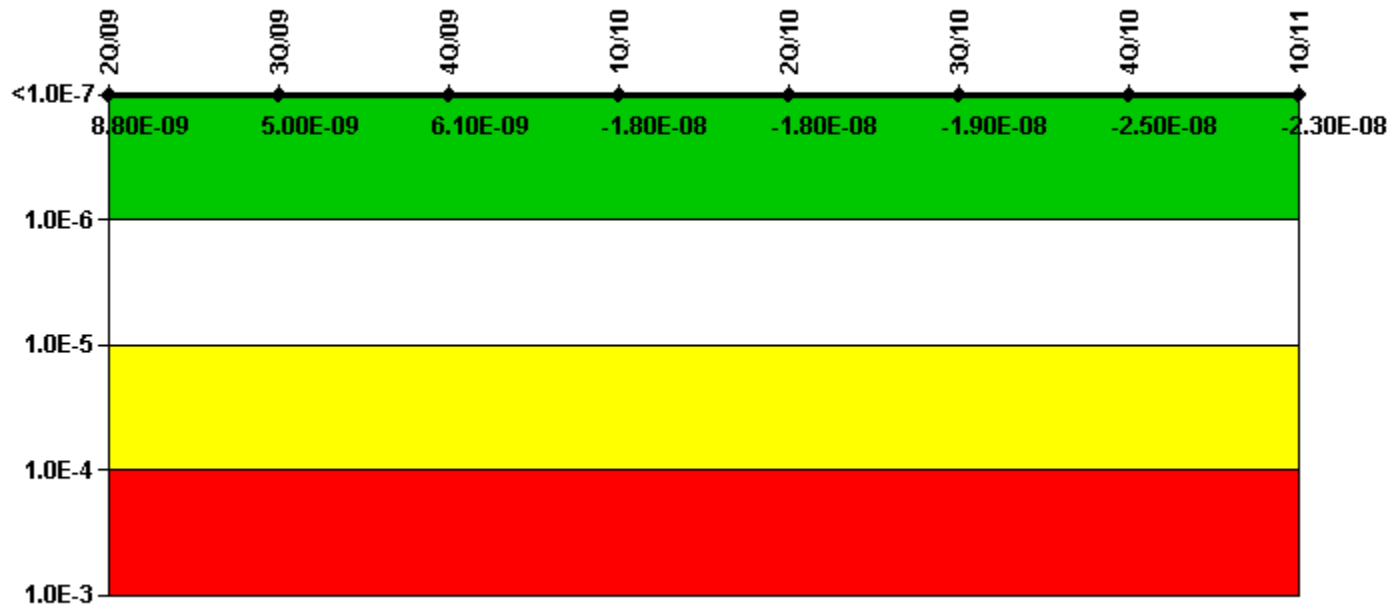
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	9.60E-08	-1.30E-08	2.60E-08	1.67E-07	3.61E-07	2.68E-07	3.16E-07	2.08E-07
URI (ΔCDF)	-1.00E-06	-9.60E-07	-9.10E-07	-9.36E-07	-1.00E-06	-1.01E-06	-1.05E-06	-1.02E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.04E-07	-9.73E-07	-8.84E-07	-7.70E-07	-6.40E-07	-7.40E-07	-7.40E-07	-8.10E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



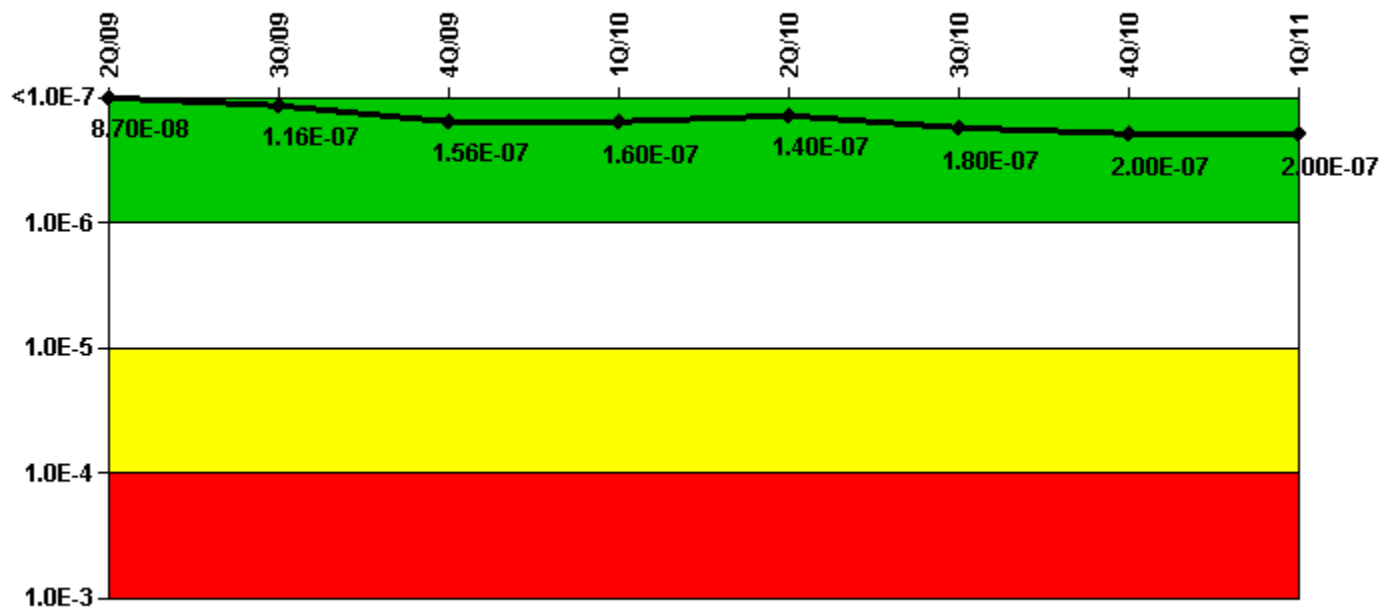
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (Δ CDF)	-1.20E-09	-6.00E-09	-5.90E-09	-5.84E-09	-5.77E-09	-5.73E-09	-1.09E-08	-1.09E-08
URI (Δ CDF)	1.00E-08	1.10E-08	1.20E-08	-1.19E-08	-1.27E-08	-1.31E-08	-1.37E-08	-1.24E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.80E-09	5.00E-09	6.10E-09	-1.80E-08	-1.80E-08	-1.90E-08	-2.50E-08	-2.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



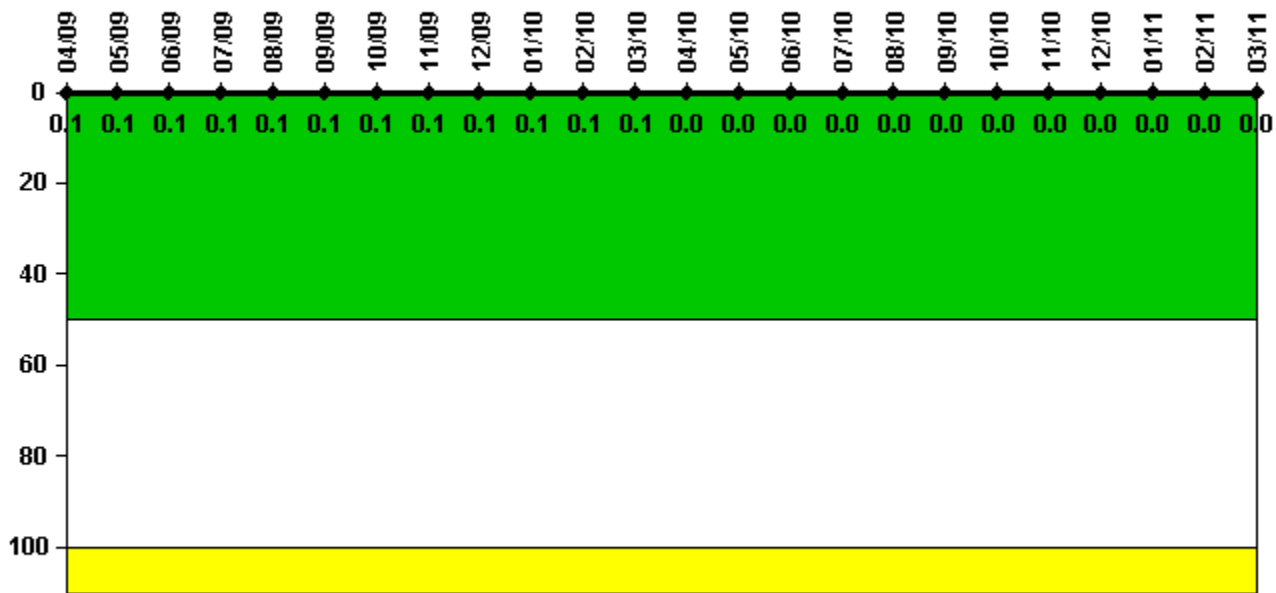
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	1.40E-08	1.60E-08	5.70E-08	5.96E-08	7.47E-08	8.53E-08	1.01E-07	1.27E-07
URI (ΔCDF)	7.30E-08	1.00E-07	9.90E-08	9.87E-08	6.63E-08	9.91E-08	1.03E-07	7.15E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.70E-08	1.16E-07	1.56E-07	1.60E-07	1.40E-07	1.80E-07	2.00E-07	2.00E-07

Licensee Comments: none

Reactor Coolant System Activity



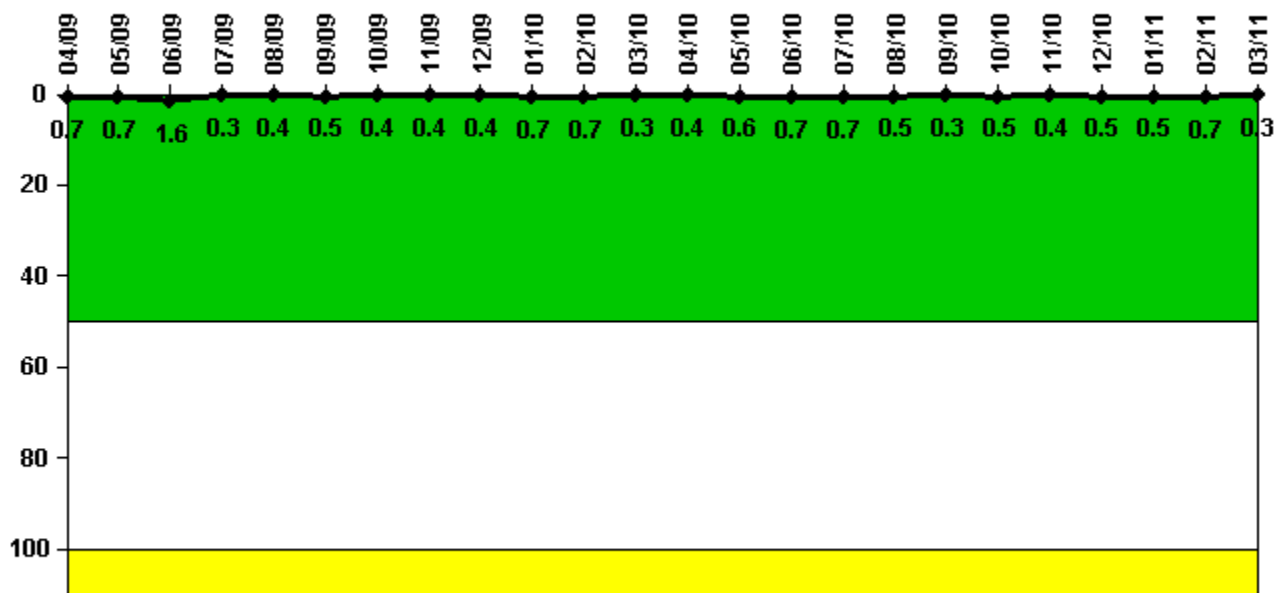
Thresholds: White > 50.0 Yellow > 100.0

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	0.000740	0.000733	0.000725	0.000809	0.000816	0.000795	0.000839	0.000789	0.000918	0.000882	0.000897	0.000936
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Reactor Coolant System Activity	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum activity	0.000342	0.000268	0.000286	0.000293	0.000311	0.000304	0.000333	0.000325	0.000350	0.000362	0.000333	0.000389
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



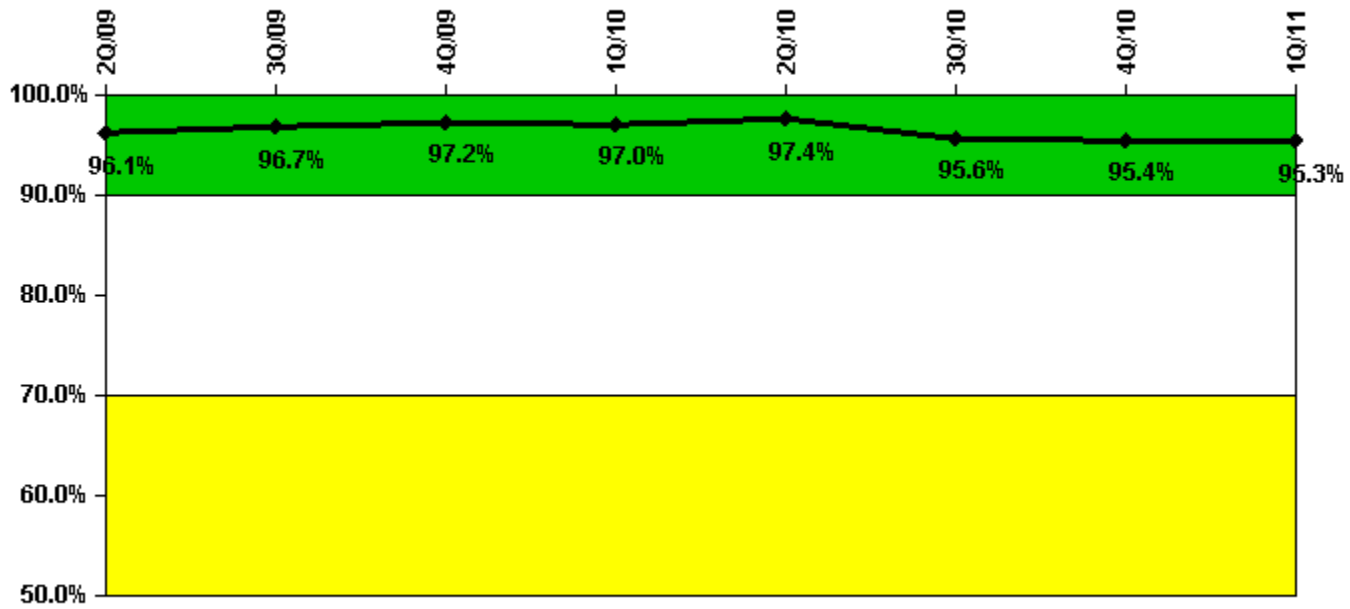
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum leakage	0.070	0.070	0.160	0.030	0.040	0.050	0.040	0.040	0.040	0.070	0.070	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	0.7	0.7	1.6	0.3	0.4	0.5	0.4	0.4	0.4	0.7	0.7	0.3
Reactor Coolant System Leakage	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum leakage	0.040	0.060	0.070	0.070	0.050	0.030	0.050	0.040	0.050	0.050	0.070	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	0.4	0.6	0.7	0.7	0.5	0.3	0.5	0.4	0.5	0.5	0.7	0.3

Licensee Comments: none

Drill/Exercise Performance



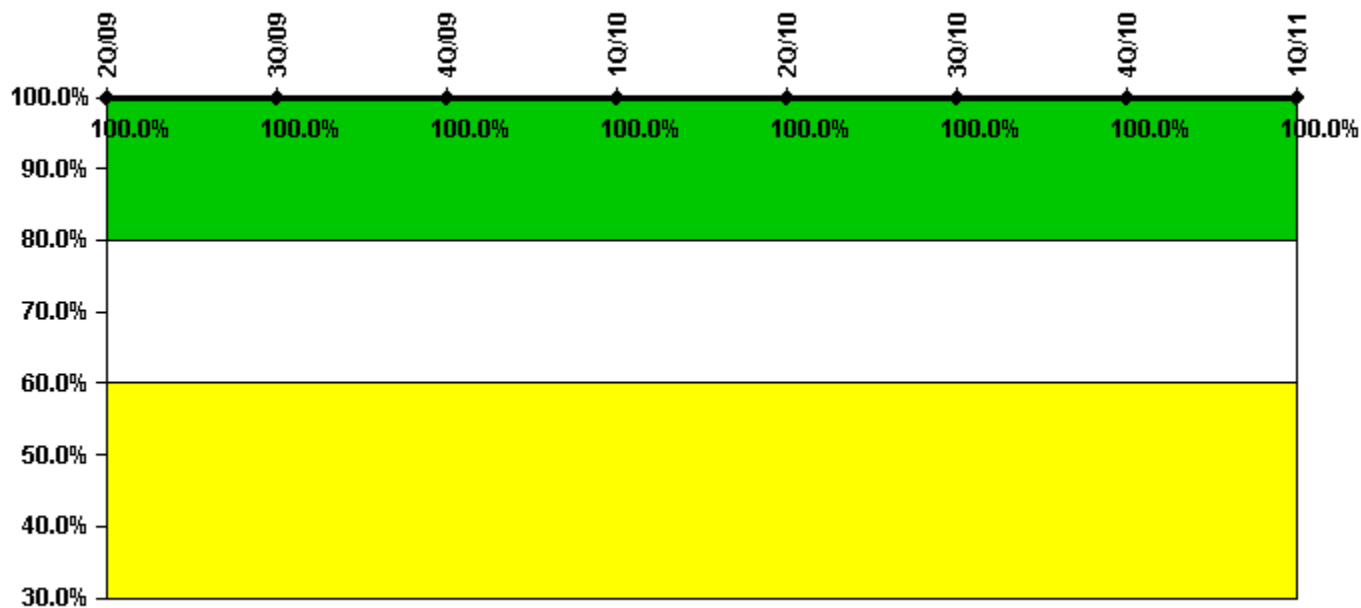
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful opportunities	38.0	95.0	62.0	17.0	46.0	97.0	54.0	19.0
Total opportunities	38.0	96.0	64.0	18.0	48.0	108.0	56.0	21.0
Indicator value	96.1%	96.7%	97.2%	97.0%	97.4%	95.6%	95.4%	95.3%

Licensee Comments: none

ERO Drill Participation



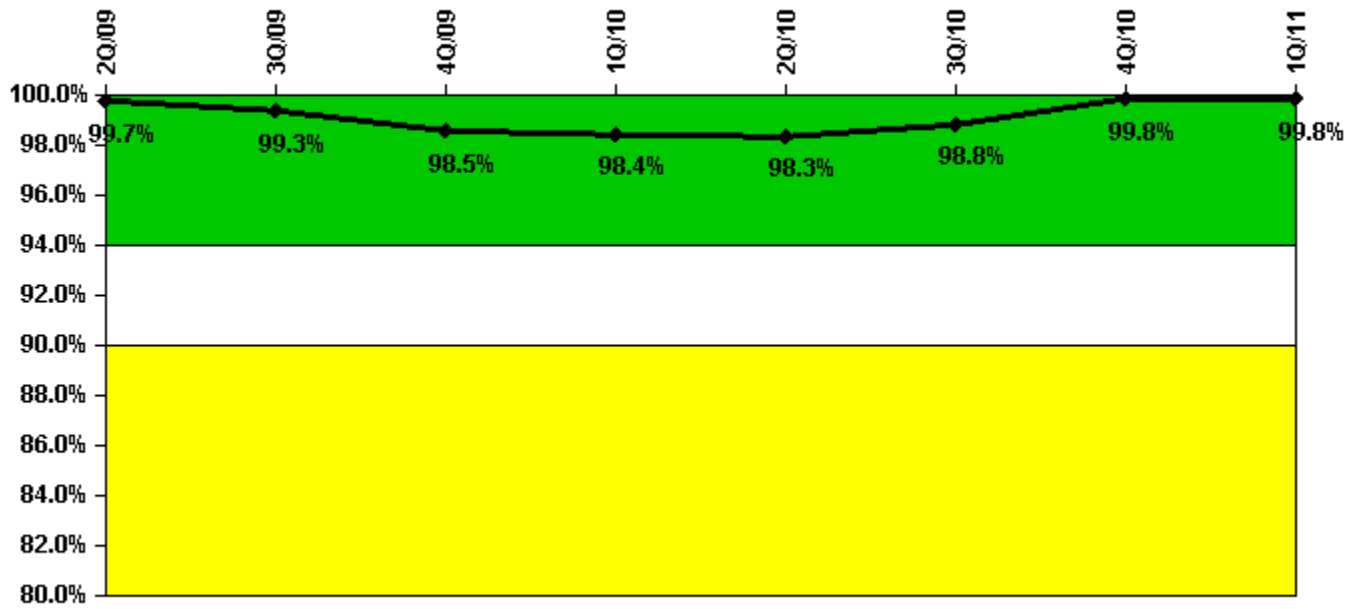
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Participating Key personnel	98.0	100.0	103.0	108.0	113.0	107.0	104.0	102.0
Total Key personnel	98.0	100.0	103.0	108.0	113.0	107.0	104.0	102.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



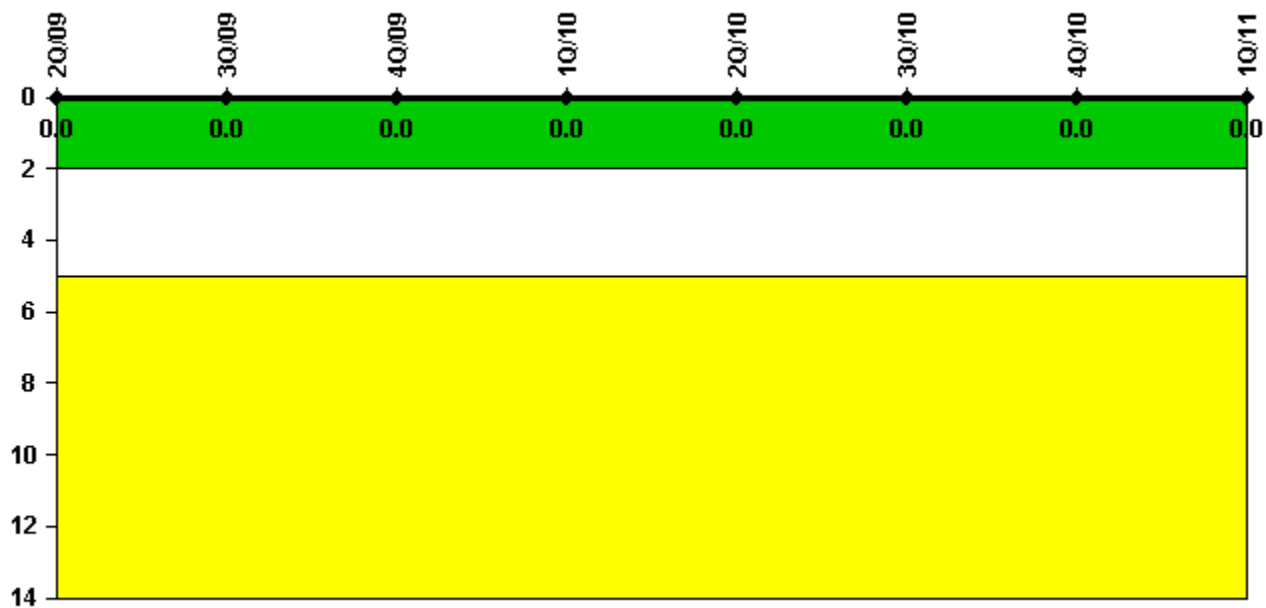
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful siren-tests	1200	1159	1121	1014	878	1065	956	1012
Total sirens-tests	1204	1181	1163	1018	881	1066	957	1013
Indicator value	99.7%	99.3%	98.5%	98.4%	98.3%	98.8%	99.8%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



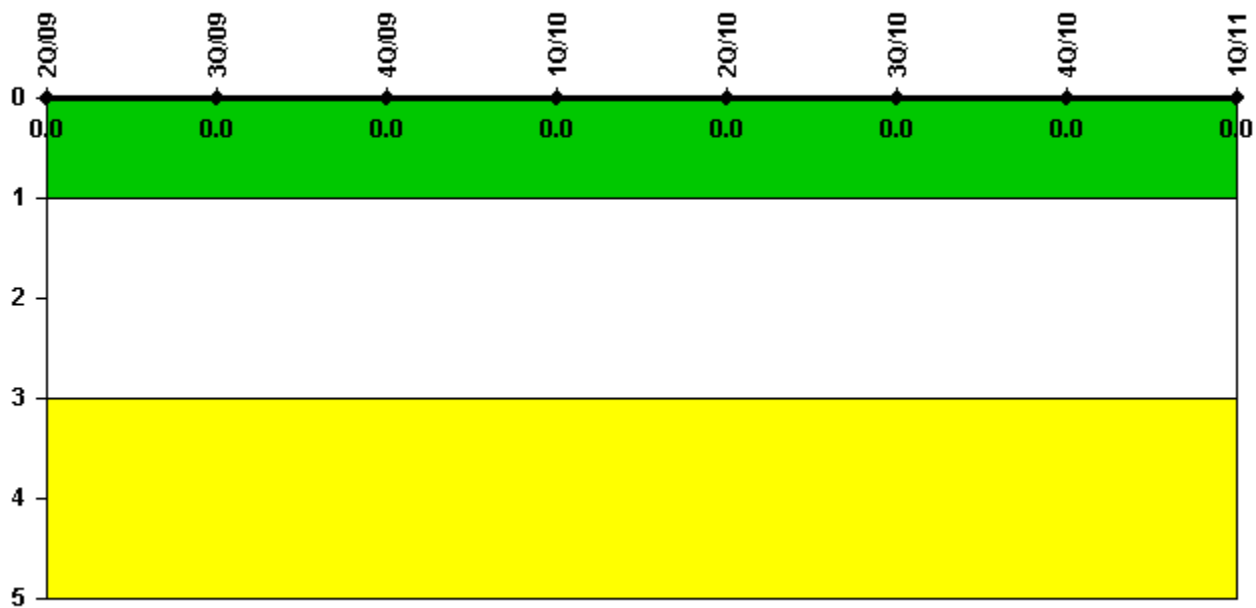
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

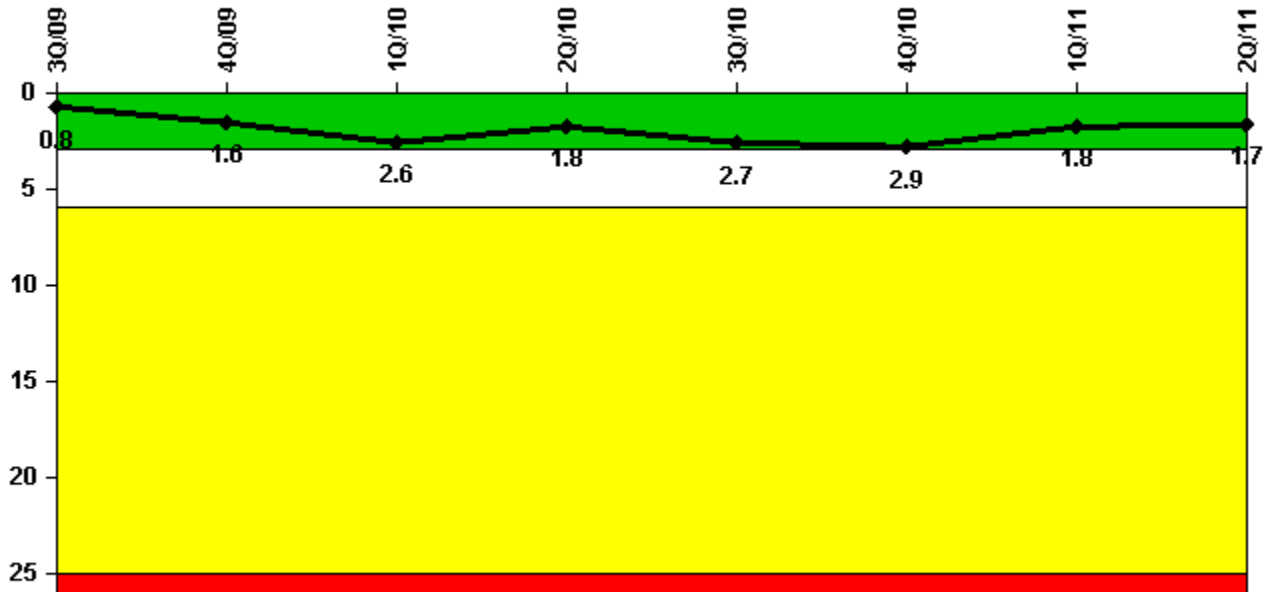
[Security](#) information not publicly available.

Indian Point 2

2Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



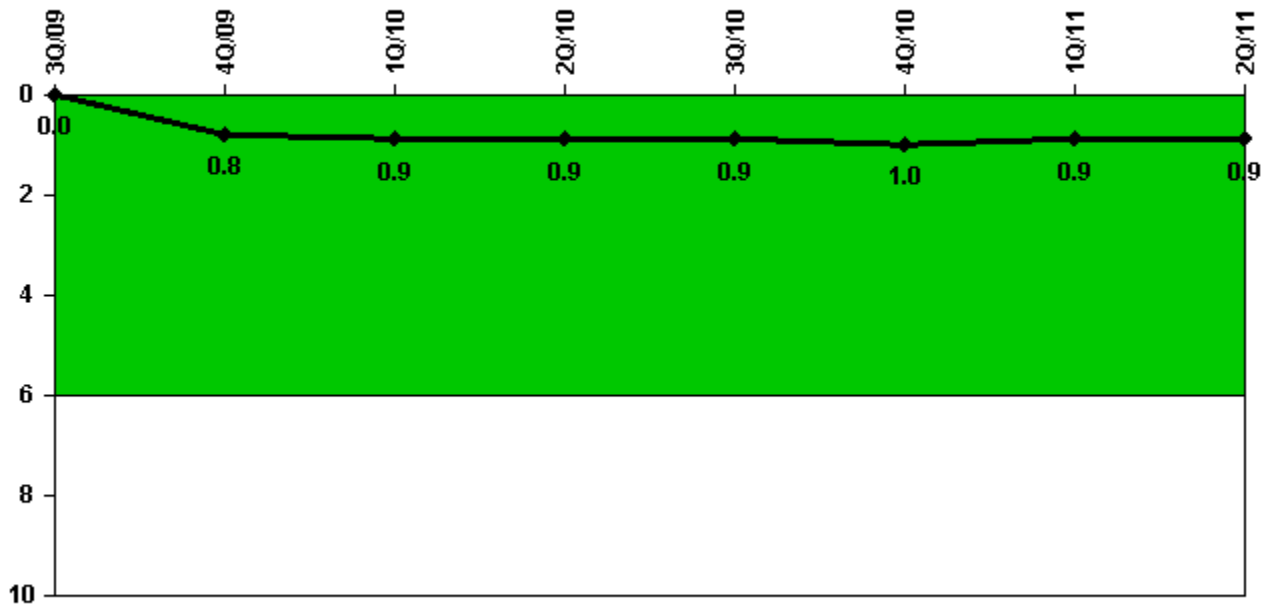
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned scrams	0	1.0	1.0	0	1.0	1.0	0	0
Critical hours	2208.0	2177.4	1614.4	1953.4	1966.5	1832.8	2159.0	2087.1
Indicator value	0.8	1.6	2.6	1.8	2.7	2.9	1.8	1.7

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



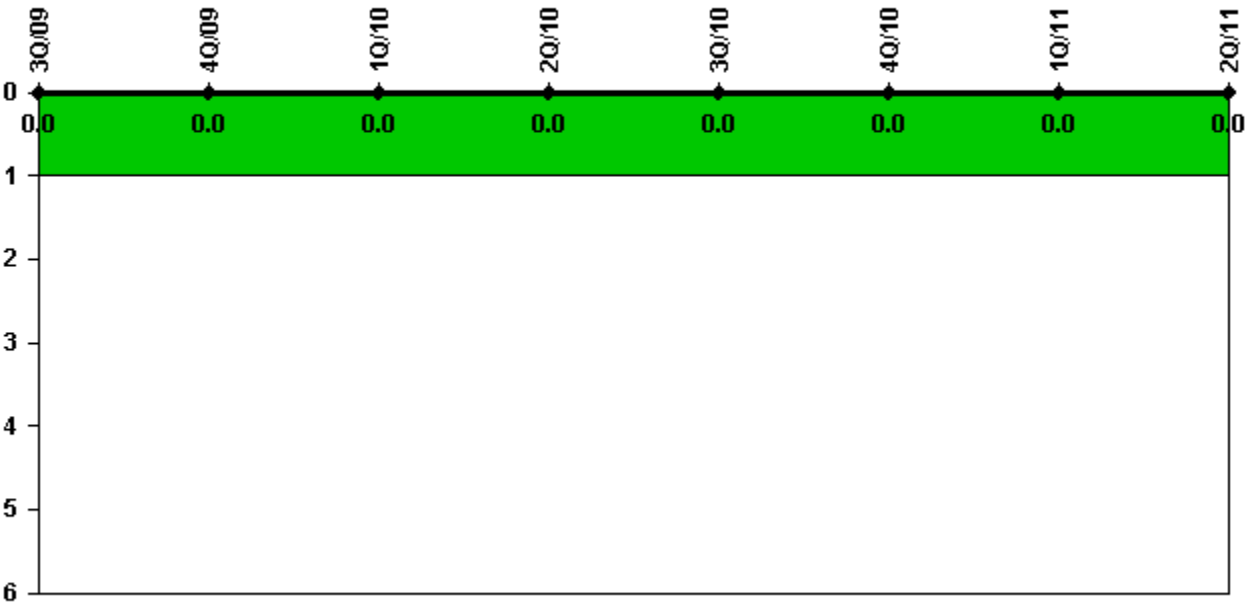
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned power changes	0	1.0	0	0	0	1.0	0	0
Critical hours	2208.0	2177.4	1614.4	1953.4	1966.5	1832.8	2159.0	2087.1
Indicator value	0	0.8	0.9	0.9	0.9	1.0	0.9	0.9

Licensee Comments: none

Unplanned Scrams with Complications



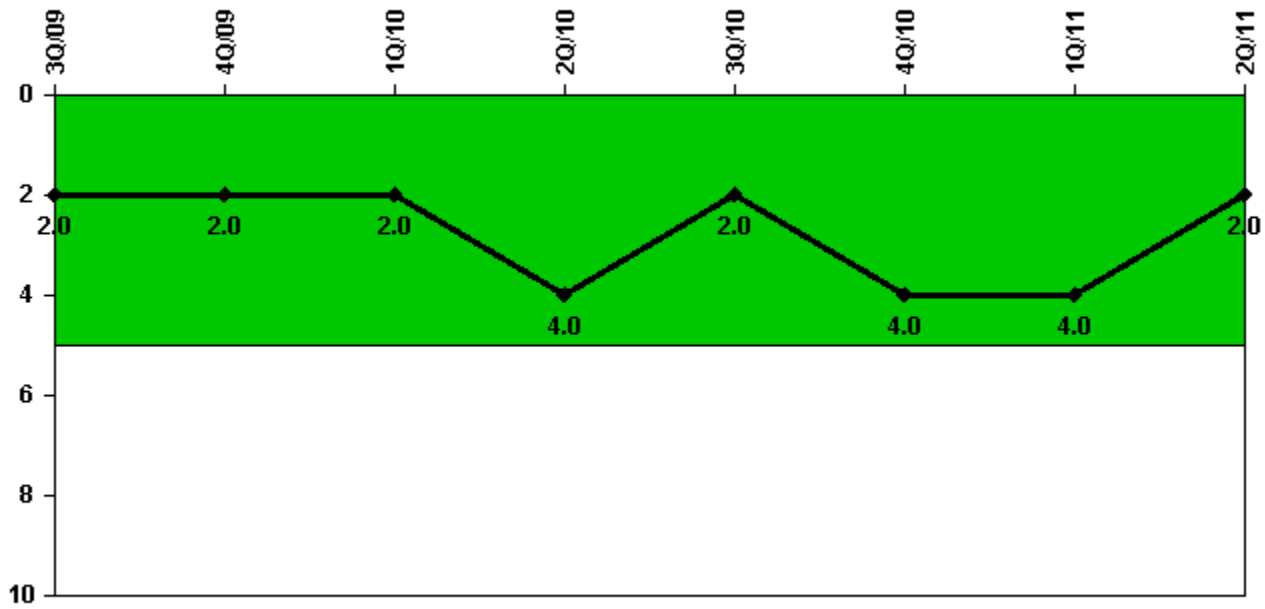
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Scrams with complications	0	0	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)



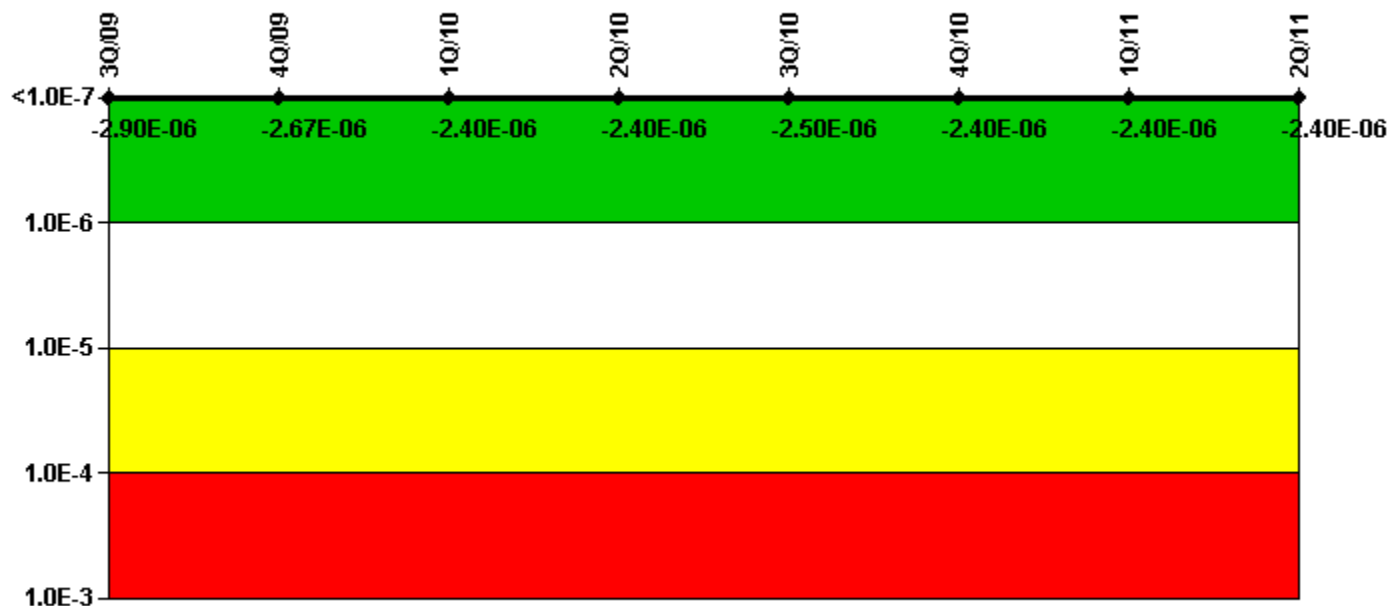
Thresholds: White > 5.0

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	2	0	0	2	0	2	0	0
Indicator value	2	2	2	4	2	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

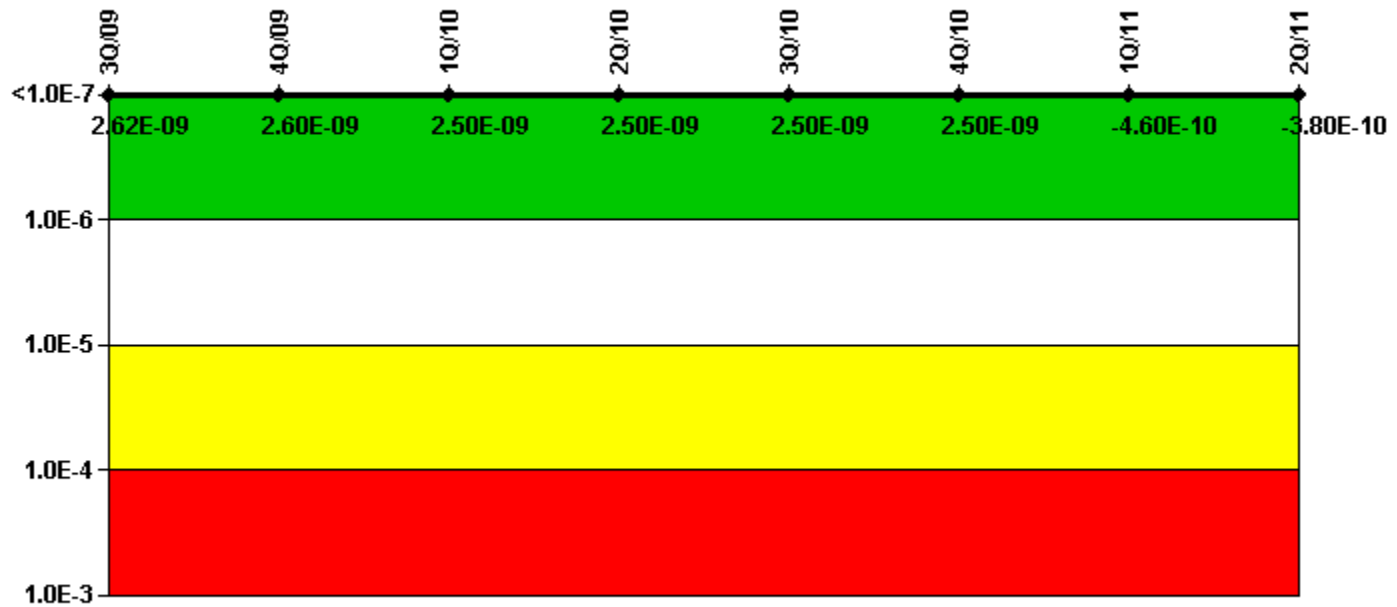
Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	6.00E-07	7.30E-07	7.28E-07	6.75E-07	6.41E-07	7.42E-07	6.97E-07	6.06E-07
URI (ΔCDF)	-3.50E-06	-3.40E-06	-3.09E-06	-3.12E-06	-3.12E-06	-3.13E-06	-3.12E-06	-2.98E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.90E-06	-2.67E-06	-2.40E-06	-2.40E-06	-2.50E-06	-2.40E-06	-2.40E-06	-2.40E-06

Licensee Comments:

2Q/11: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



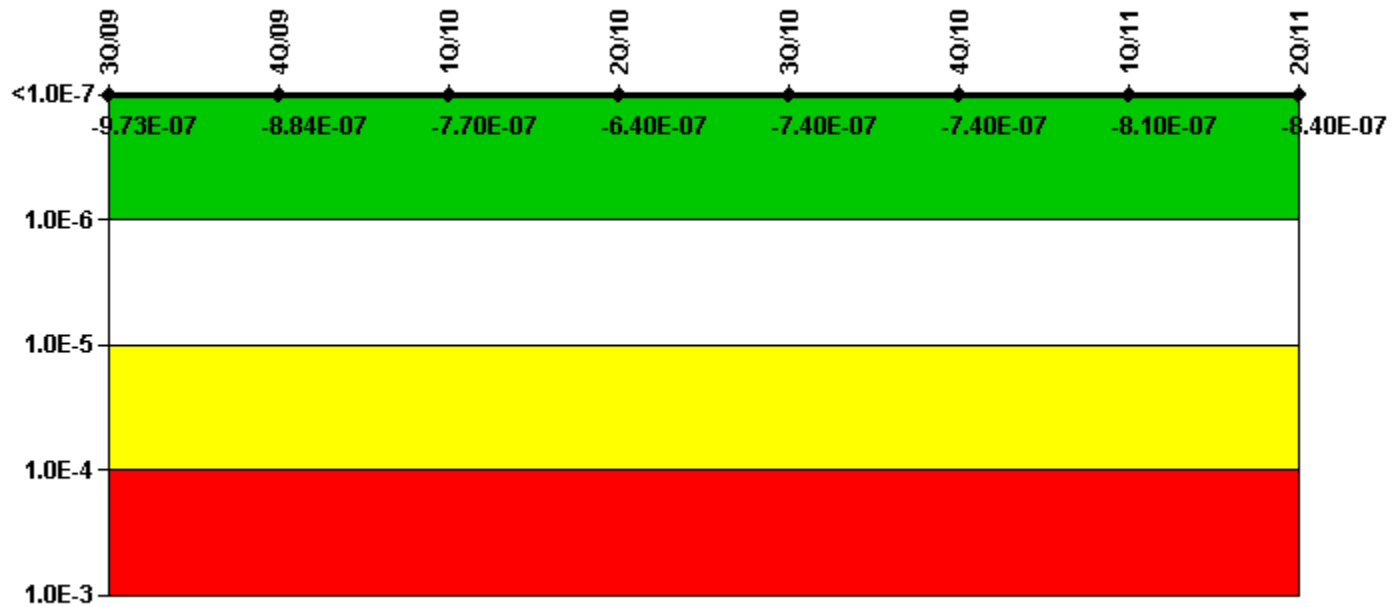
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	-1.80E-10	-2.00E-10	-2.00E-10	-2.03E-10	-2.03E-10	-2.03E-10	-2.03E-10	-1.44E-10
URI (Δ CDF)	2.80E-09	2.80E-09	2.74E-09	2.72E-09	2.72E-09	2.71E-09	-2.56E-10	-2.36E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.62E-09	2.60E-09	2.50E-09	2.50E-09	2.50E-09	2.50E-09	-4.60E-10	-3.80E-10

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



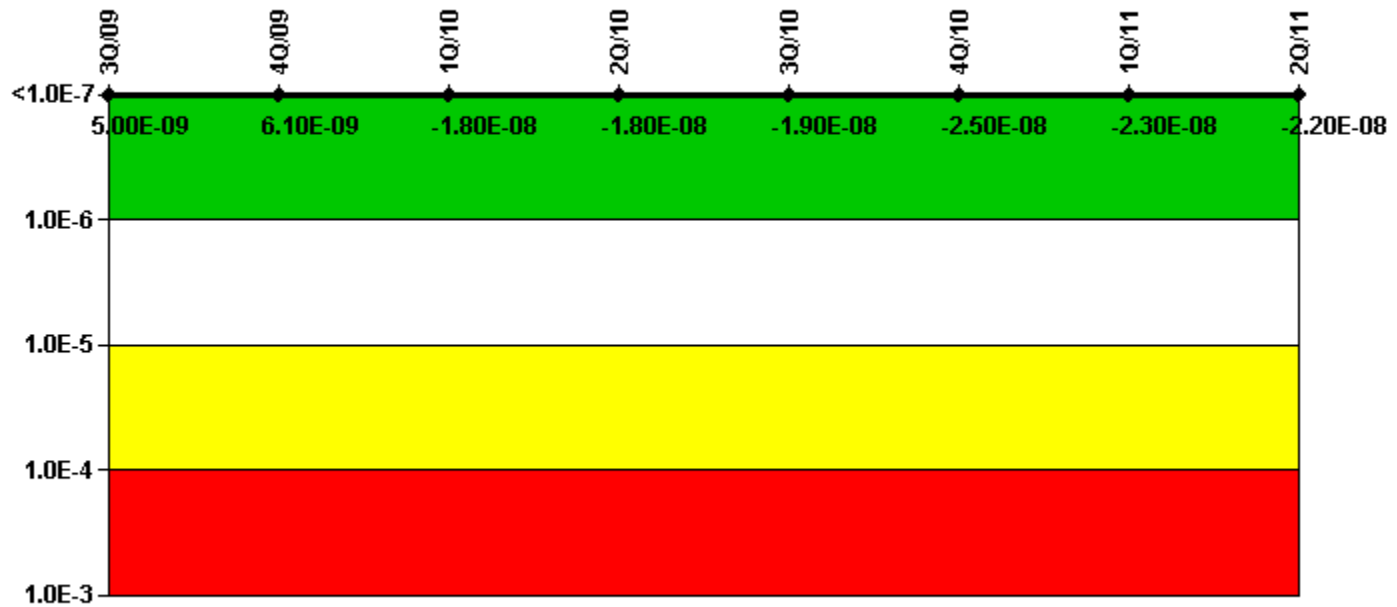
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	-1.30E-08	2.60E-08	1.67E-07	3.61E-07	2.68E-07	3.16E-07	2.08E-07	1.39E-07
URI (ΔCDF)	-9.60E-07	-9.10E-07	-9.36E-07	-1.00E-06	-1.01E-06	-1.05E-06	-1.02E-06	-9.79E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.73E-07	-8.84E-07	-7.70E-07	-6.40E-07	-7.40E-07	-7.40E-07	-8.10E-07	-8.40E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



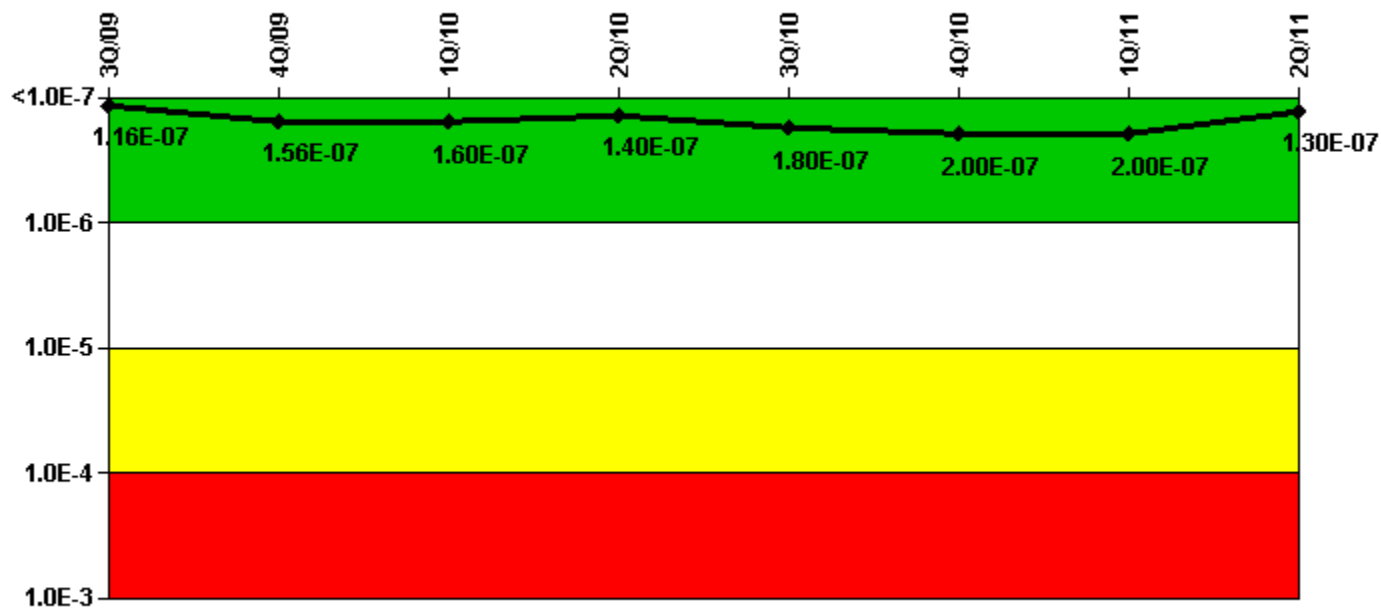
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (Δ CDF)	-6.00E-09	-5.90E-09	-5.84E-09	-5.77E-09	-5.73E-09	-1.09E-08	-1.09E-08	-1.09E-08
URI (Δ CDF)	1.10E-08	1.20E-08	-1.19E-08	-1.27E-08	-1.31E-08	-1.37E-08	-1.24E-08	-1.11E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.00E-09	6.10E-09	-1.80E-08	-1.80E-08	-1.90E-08	-2.50E-08	-2.30E-08	-2.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



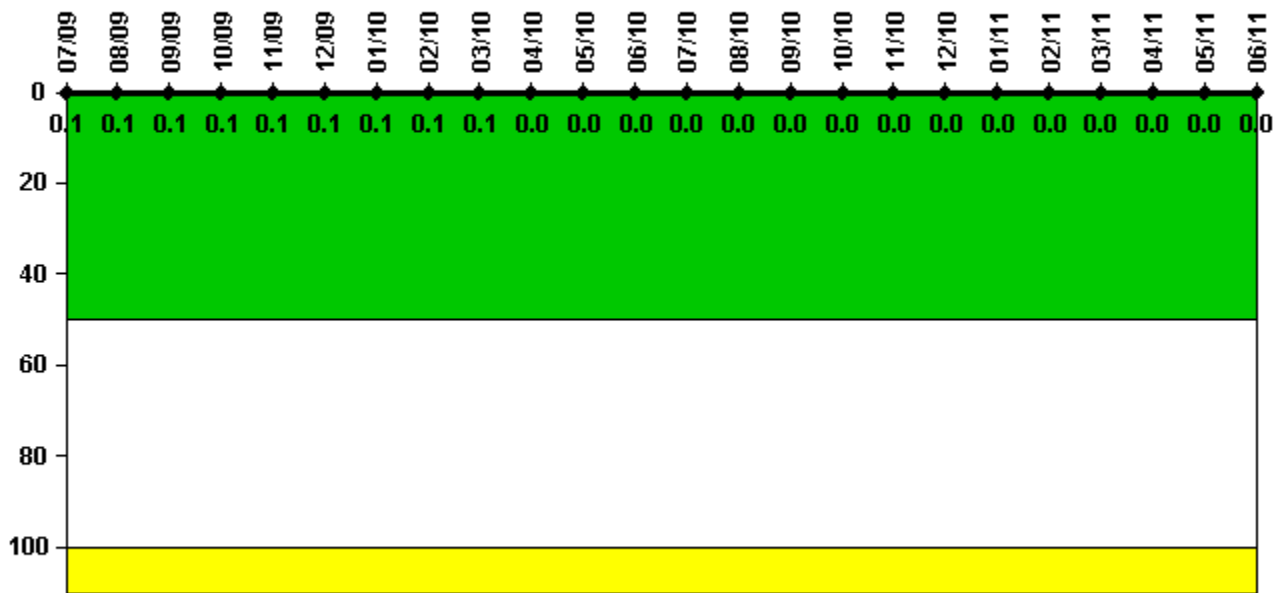
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	1.60E-08	5.70E-08	5.96E-08	7.47E-08	8.53E-08	1.01E-07	1.27E-07	7.99E-08
URI (ΔCDF)	1.00E-07	9.90E-08	9.87E-08	6.63E-08	9.91E-08	1.03E-07	7.15E-08	4.61E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.16E-07	1.56E-07	1.60E-07	1.40E-07	1.80E-07	2.00E-07	2.00E-07	1.30E-07

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	0.000809	0.000816	0.000795	0.000839	0.000789	0.000918	0.000882	0.000897	0.000936	0.000342	0.000268	0.000286
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0
Reactor Coolant System Activity	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.000293	0.000311	0.000304	0.000333	0.000325	0.000350	0.000362	0.000333	0.000389	0.000370	0.000411	0.000398
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



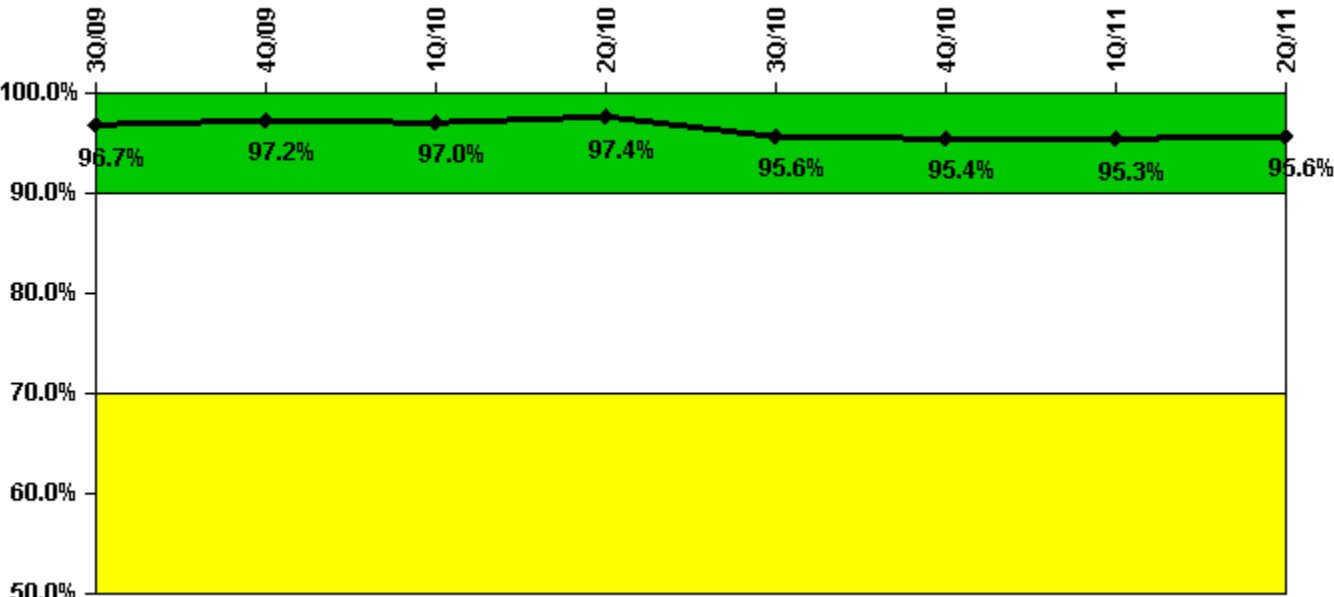
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum leakage	0.030	0.040	0.050	0.040	0.040	0.040	0.070	0.070	0.030	0.040	0.060	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.3	0.4	0.5	0.4	0.4	0.4	0.7	0.7	0.3	0.4	0.6	0.7
Reactor Coolant System Leakage	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum leakage	0.070	0.050	0.030	0.050	0.040	0.050	0.050	0.070	0.030	0.030	0.080	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.5	0.3	0.5	0.4	0.5	0.5	0.7	0.3	0.3	0.8	0.7

Licensee Comments: none

Drill/Exercise Performance



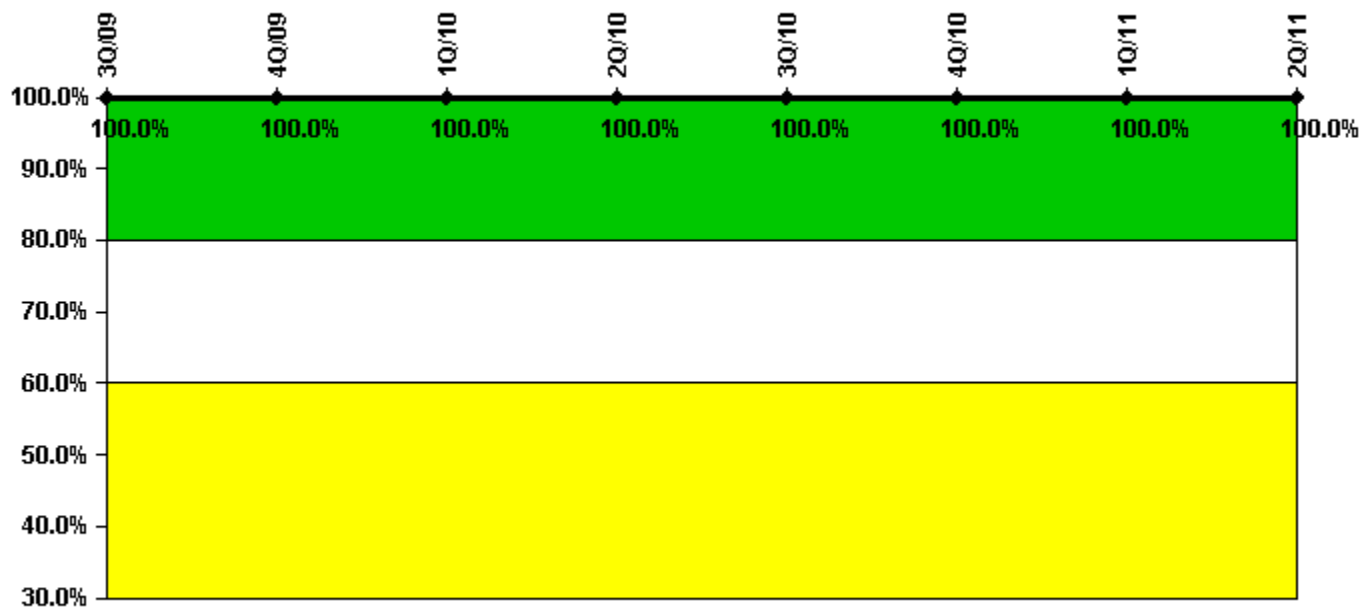
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful opportunities	95.0	62.0	17.0	46.0	97.0	54.0	19.0	66.0
Total opportunities	96.0	64.0	18.0	48.0	108.0	56.0	21.0	66.0
Indicator value	96.7%	97.2%	97.0%	97.4%	95.6%	95.4%	95.3%	95.6%

Licensee Comments: none

ERO Drill Participation



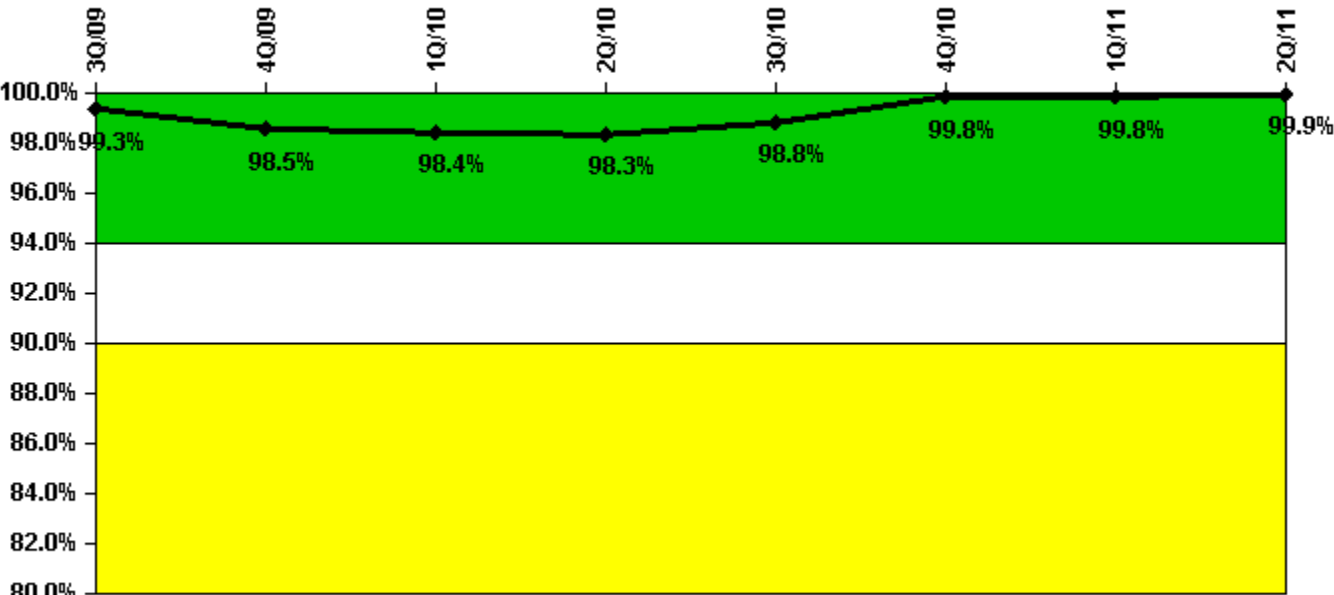
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Participating Key personnel	100.0	103.0	108.0	113.0	107.0	104.0	102.0	102.0
Total Key personnel	100.0	103.0	108.0	113.0	107.0	104.0	102.0	102.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



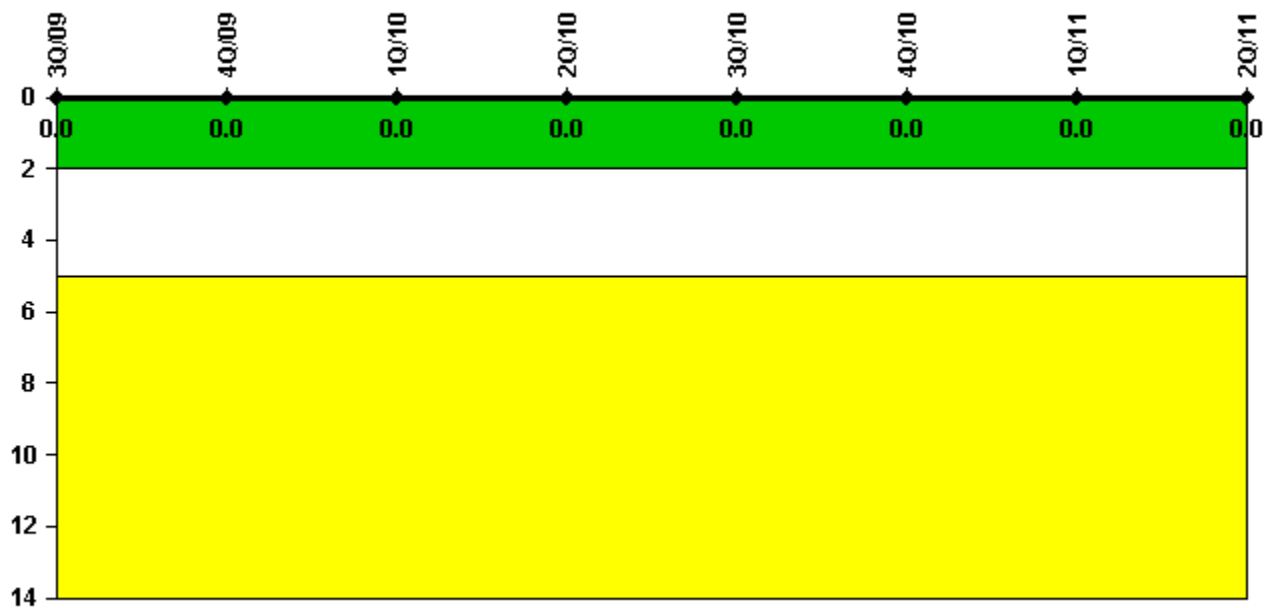
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful siren-tests	1159	1121	1014	878	1065	956	1012	1176
Total sirens-tests	1181	1163	1018	881	1066	957	1013	1179
Indicator value	99.3%	98.5%	98.4%	98.3%	98.8%	99.8%	99.8%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



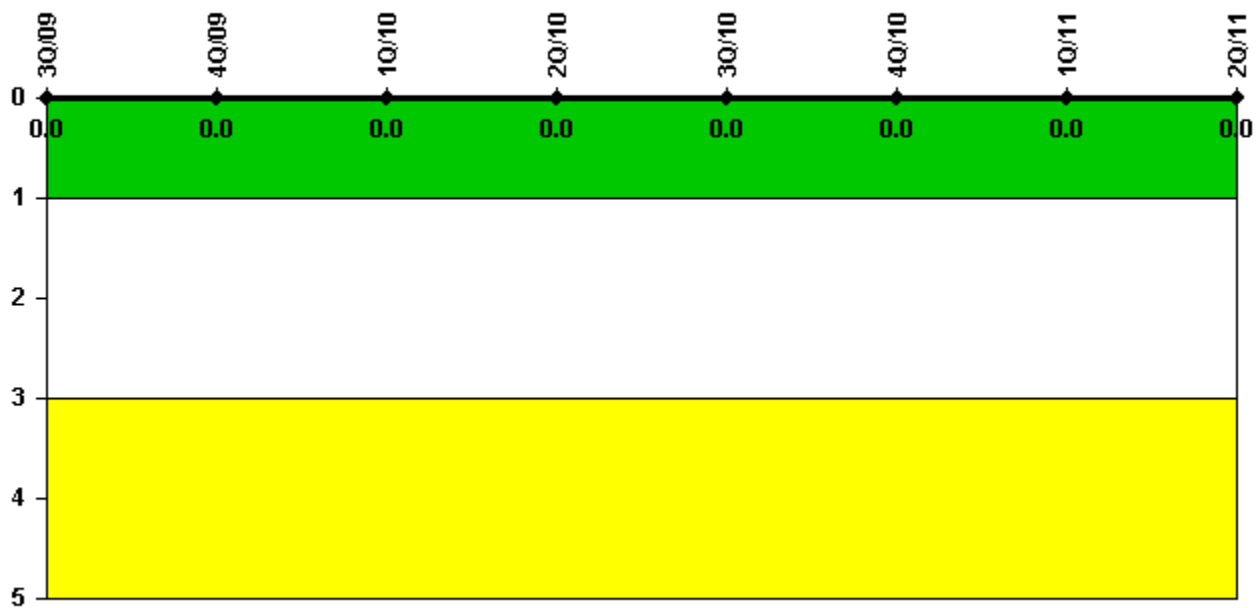
Thresholds: White > 2.0 Yellow > 5.0

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

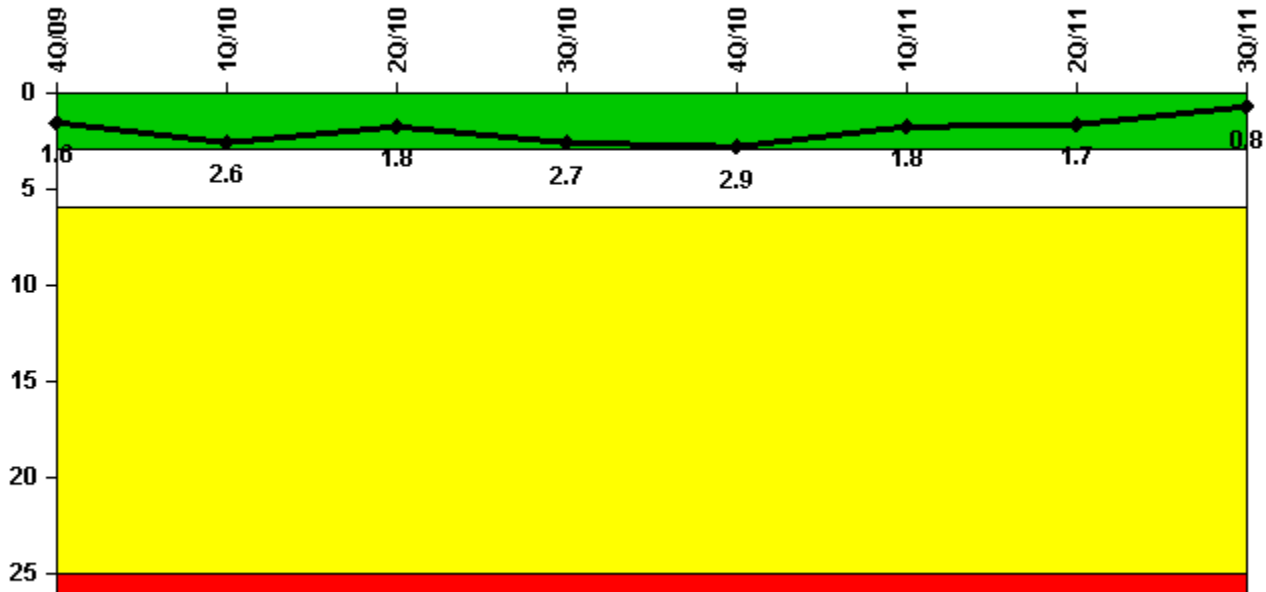
[Security](#) information not publicly available.

Indian Point 2

3Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



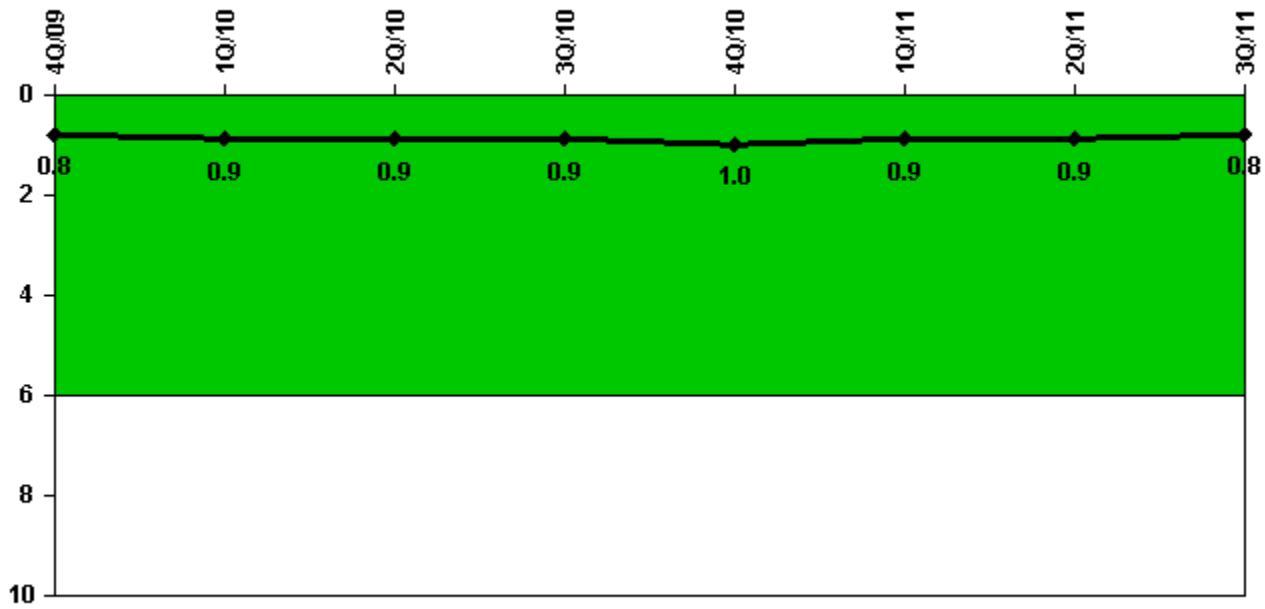
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned scrams	1.0	1.0	0	1.0	1.0	0	0	0
Critical hours	2177.4	1614.4	1953.4	1966.5	1832.8	2159.0	2087.1	2208.0
Indicator value	1.6	2.6	1.8	2.7	2.9	1.8	1.7	0.8

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



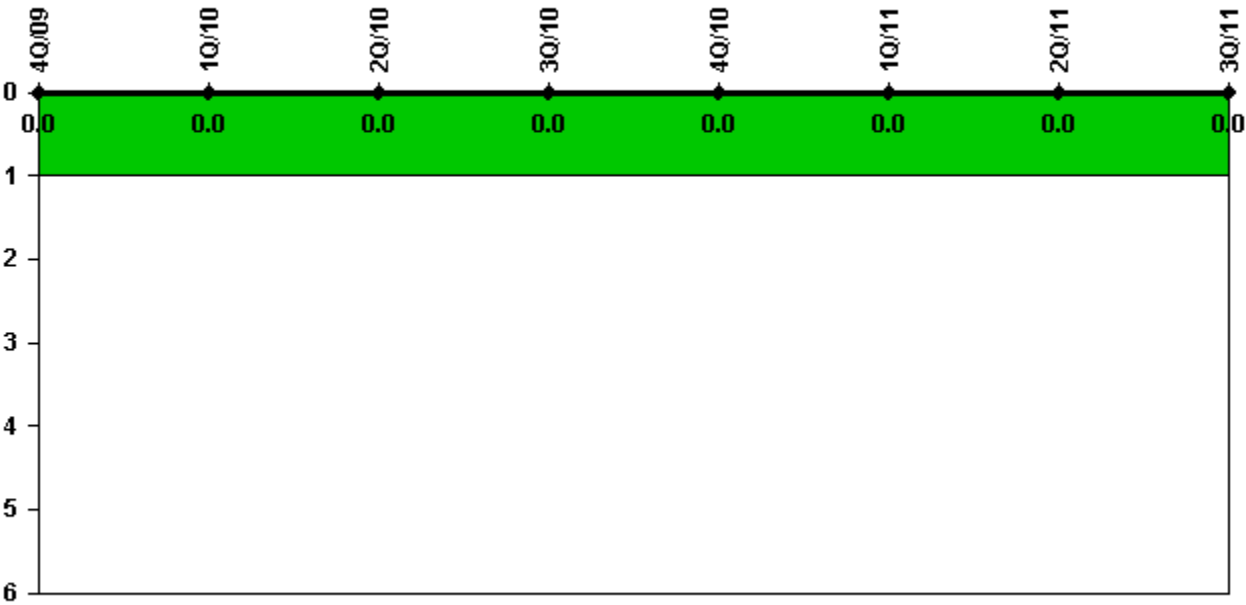
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned power changes	1.0	0	0	0	1.0	0	0	0
Critical hours	2177.4	1614.4	1953.4	1966.5	1832.8	2159.0	2087.1	2208.0
Indicator value	0.8	0.9	0.9	0.9	1.0	0.9	0.9	0.8

Licensee Comments: none

Unplanned Scrams with Complications



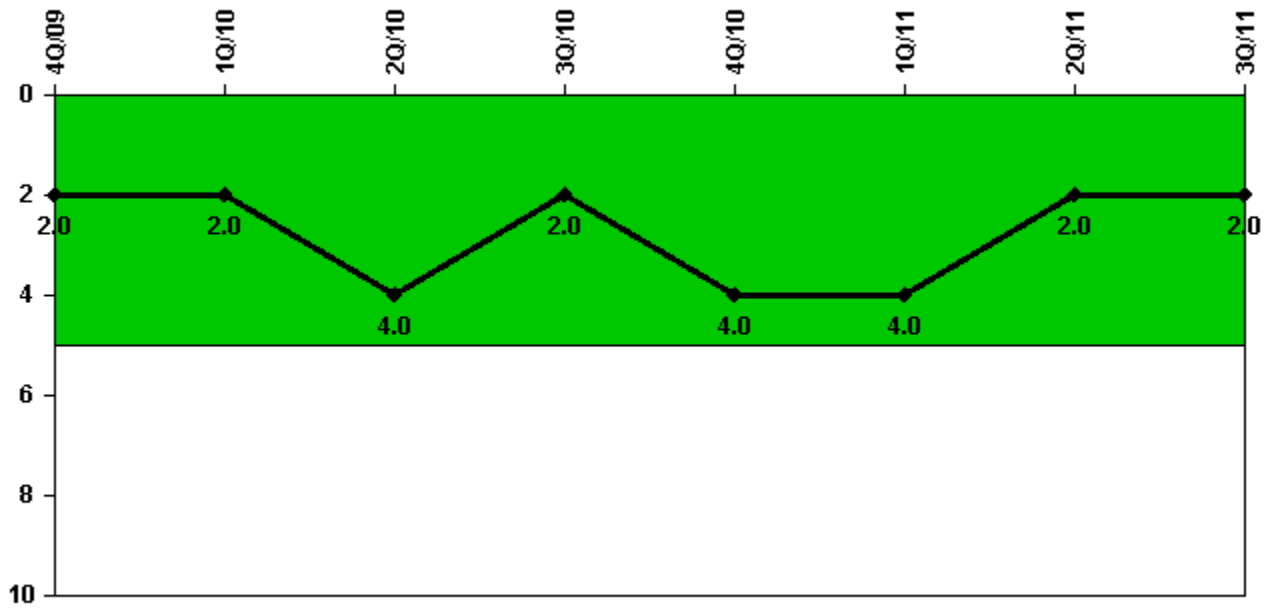
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Scrams with complications	0	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)



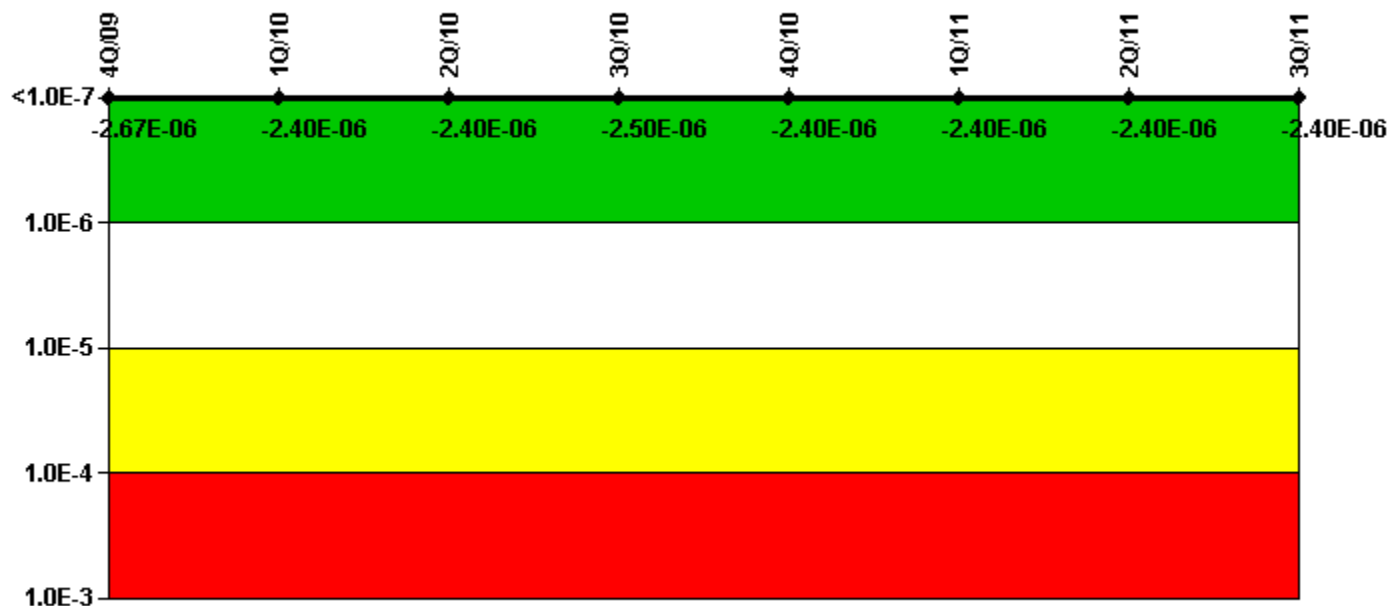
Thresholds: White > 5.0

Notes

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

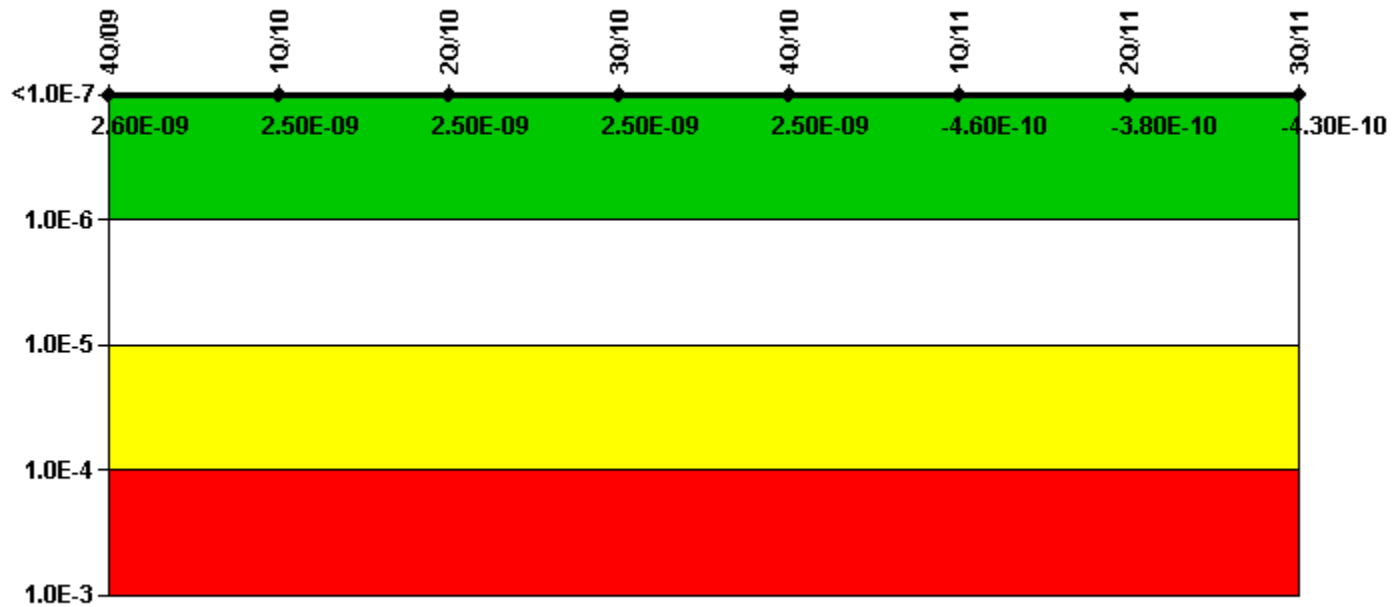
Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	7.30E-07	7.28E-07	6.75E-07	6.41E-07	7.42E-07	6.97E-07	6.06E-07	6.11E-07
URI (ΔCDF)	-3.40E-06	-3.09E-06	-3.12E-06	-3.12E-06	-3.13E-06	-3.12E-06	-2.98E-06	-3.00E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.67E-06	-2.40E-06	-2.40E-06	-2.50E-06	-2.40E-06	-2.40E-06	-2.40E-06	-2.40E-06

Licensee Comments:

3Q/11: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



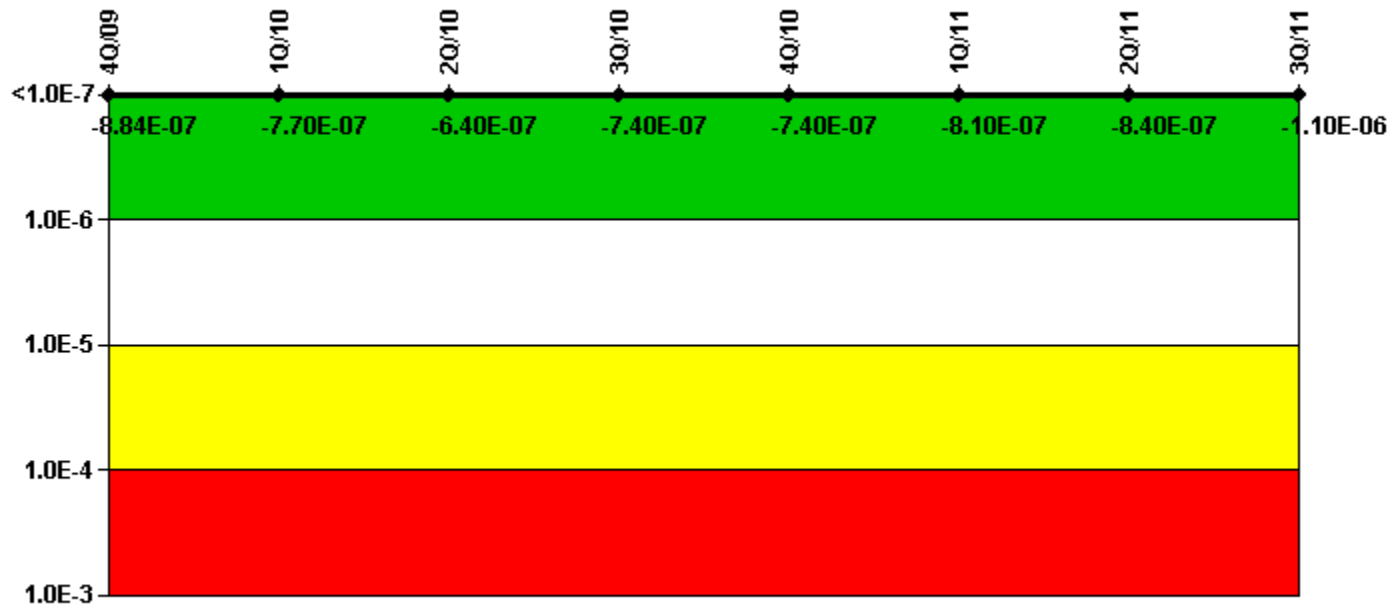
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	-2.00E-10	-2.00E-10	-2.03E-10	-2.03E-10	-2.03E-10	-2.03E-10	-1.44E-10	-2.03E-10
URI (Δ CDF)	2.80E-09	2.74E-09	2.72E-09	2.72E-09	2.71E-09	-2.56E-10	-2.36E-10	-2.31E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.60E-09	2.50E-09	2.50E-09	2.50E-09	2.50E-09	-4.60E-10	-3.80E-10	-4.30E-10

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



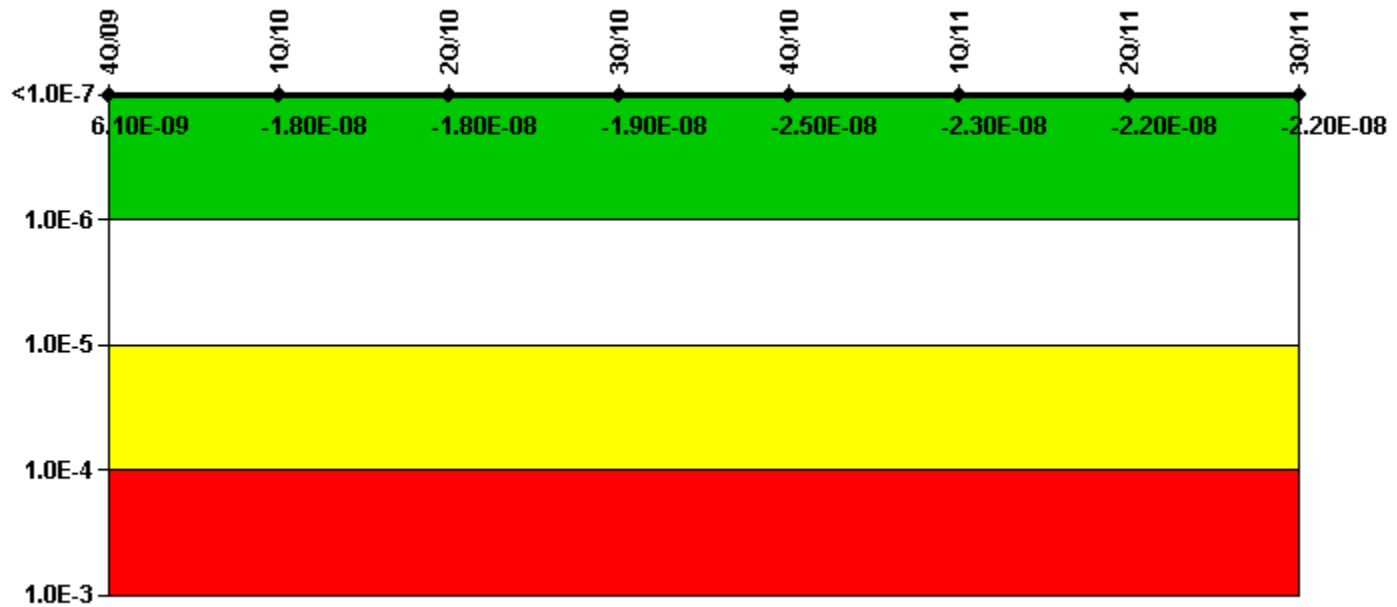
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (Δ CDF)	2.60E-08	1.67E-07	3.61E-07	2.68E-07	3.16E-07	2.08E-07	1.39E-07	-8.04E-08
URI (Δ CDF)	-9.10E-07	-9.36E-07	-1.00E-06	-1.01E-06	-1.05E-06	-1.02E-06	-9.79E-07	-9.76E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.84E-07	-7.70E-07	-6.40E-07	-7.40E-07	-7.40E-07	-8.10E-07	-8.40E-07	-1.10E-06

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



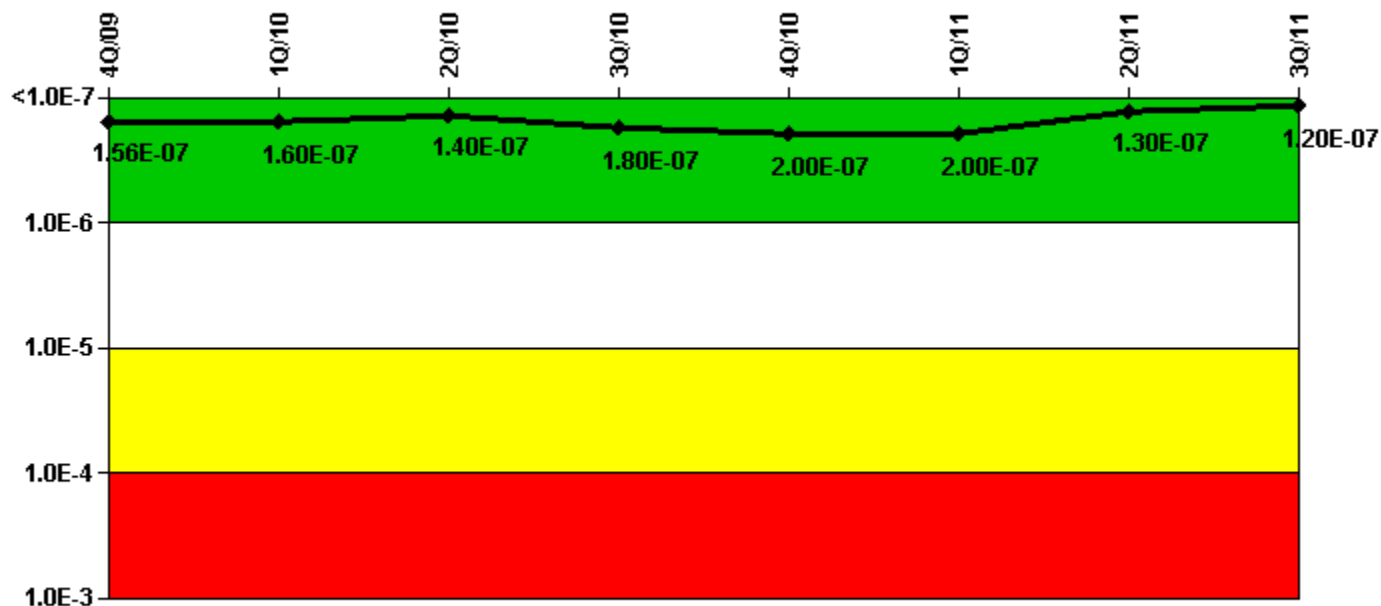
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-5.90E-09	-5.84E-09	-5.77E-09	-5.73E-09	-1.09E-08	-1.09E-08	-1.09E-08	-1.10E-08
URI (Δ CDF)	1.20E-08	-1.19E-08	-1.27E-08	-1.31E-08	-1.37E-08	-1.24E-08	-1.11E-08	-1.09E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.10E-09	-1.80E-08	-1.80E-08	-1.90E-08	-2.50E-08	-2.30E-08	-2.20E-08	-2.20E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



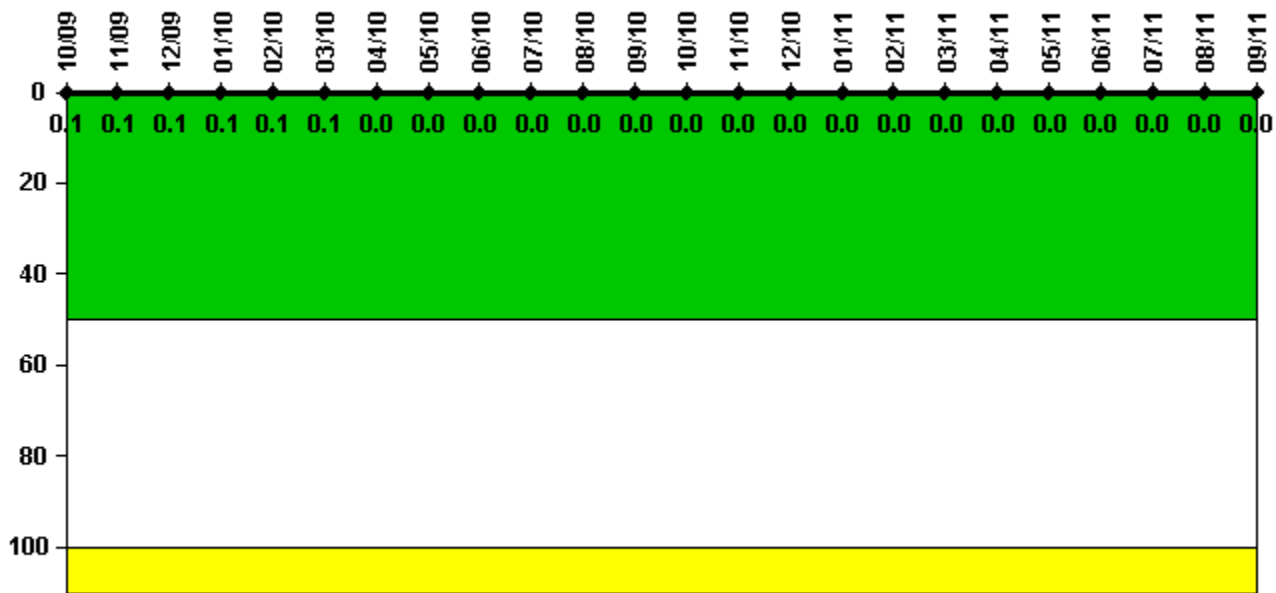
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	5.70E-08	5.96E-08	7.47E-08	8.53E-08	1.01E-07	1.27E-07	7.99E-08	7.49E-08
URI (ΔCDF)	9.90E-08	9.87E-08	6.63E-08	9.91E-08	1.03E-07	7.15E-08	4.61E-08	4.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.56E-07	1.60E-07	1.40E-07	1.80E-07	2.00E-07	2.00E-07	1.30E-07	1.20E-07

Licensee Comments: none

Reactor Coolant System Activity



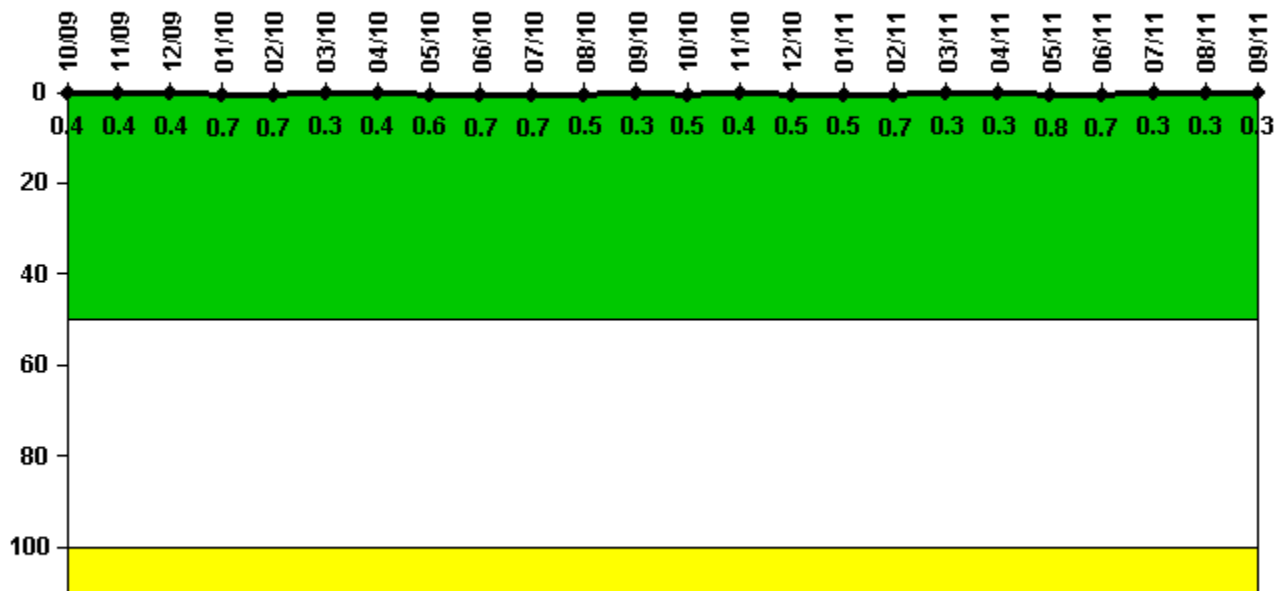
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	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	0.000839	0.000789	0.000918	0.000882	0.000897	0.000936	0.000342	0.000268	0.000286	0.000293	0.000311	0.000304
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0
Reactor Coolant System Activity	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum activity	0.000333	0.000325	0.000350	0.000362	0.000333	0.000389	0.000370	0.000411	0.000398	0.000446	0.000450	0.000474
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



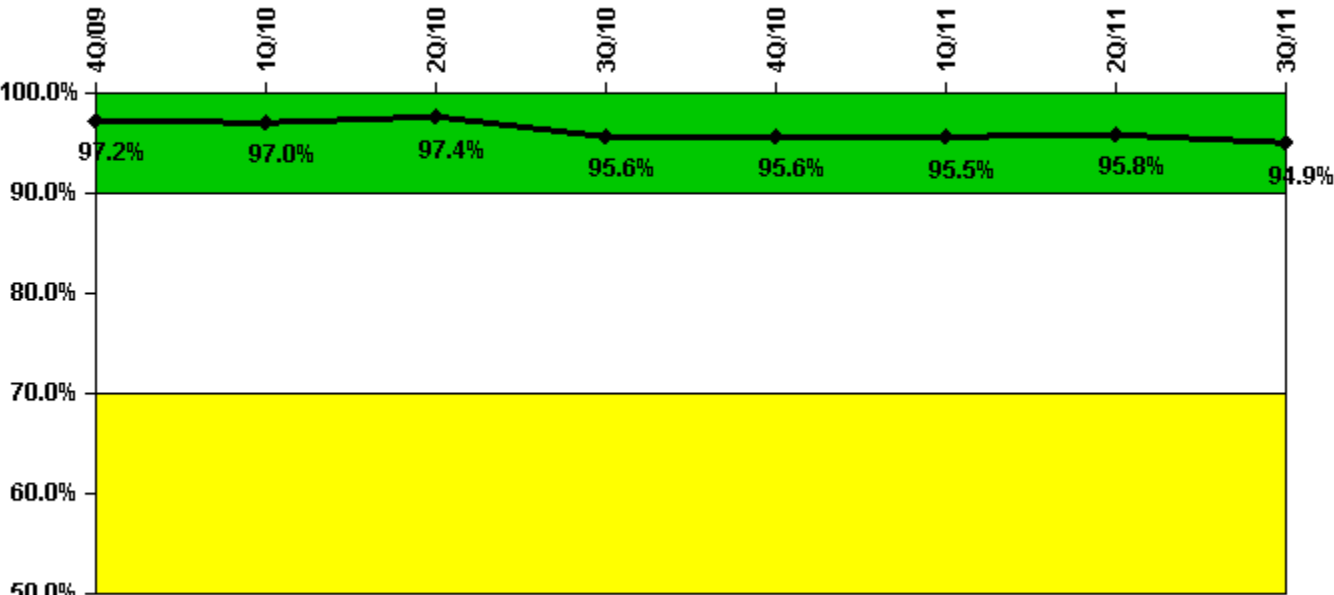
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum leakage	0.040	0.040	0.040	0.070	0.070	0.030	0.040	0.060	0.070	0.070	0.050	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	0.4	0.4	0.4	0.7	0.7	0.3	0.4	0.6	0.7	0.7	0.5	0.3
Reactor Coolant System Leakage	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum leakage	0.050	0.040	0.050	0.050	0.070	0.030	0.030	0.080	0.070	0.030	0.030	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	0.5	0.4	0.5	0.5	0.7	0.3	0.3	0.8	0.7	0.3	0.3	0.3

Licensee Comments: none

Drill/Exercise Performance



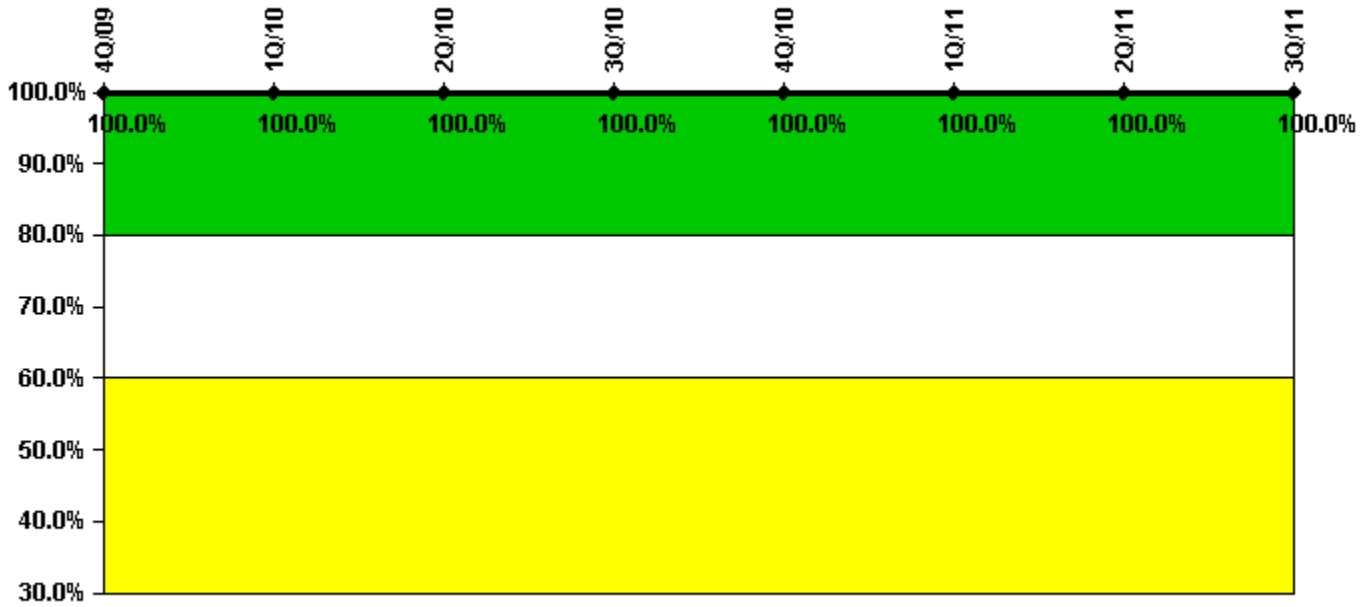
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful opportunities	62.0	17.0	46.0	97.0	55.0	19.0	66.0	143.0
Total opportunities	64.0	18.0	48.0	108.0	56.0	21.0	66.0	151.0
Indicator value	97.2%	97.0%	97.4%	95.6%	95.6%	95.5%	95.8%	94.9%

Licensee Comments: none

ERO Drill Participation



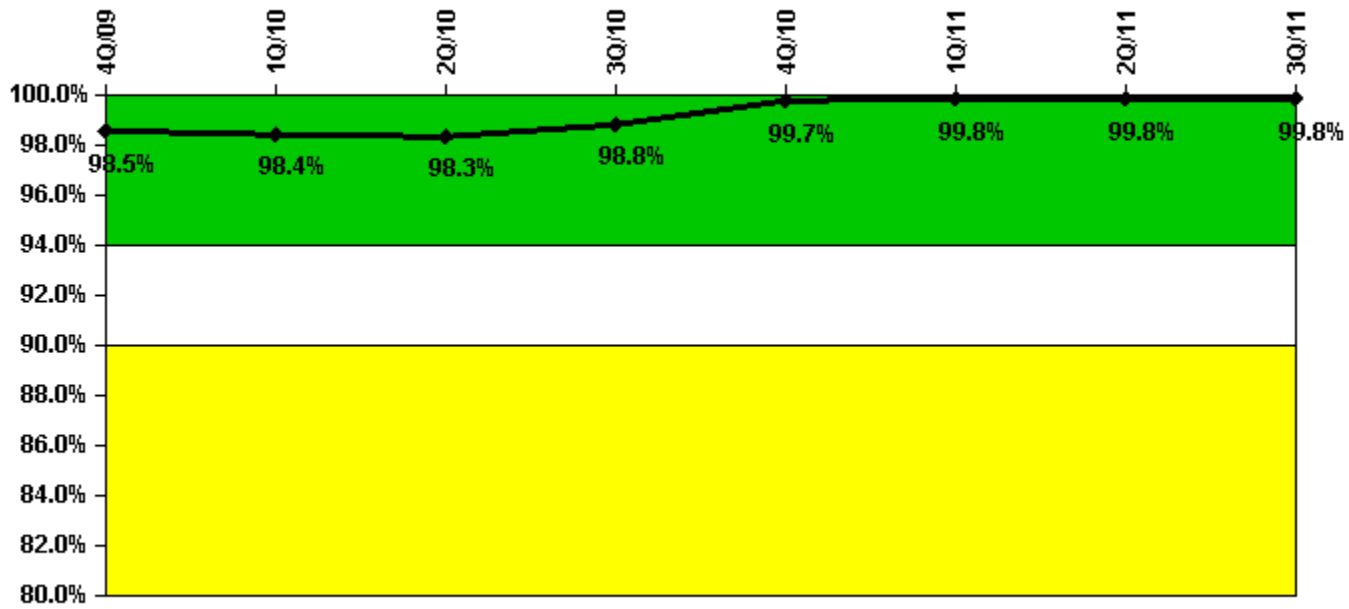
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Participating Key personnel	103.0	108.0	113.0	107.0	104.0	102.0	102.0	105.0
Total Key personnel	103.0	108.0	113.0	107.0	104.0	102.0	102.0	105.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



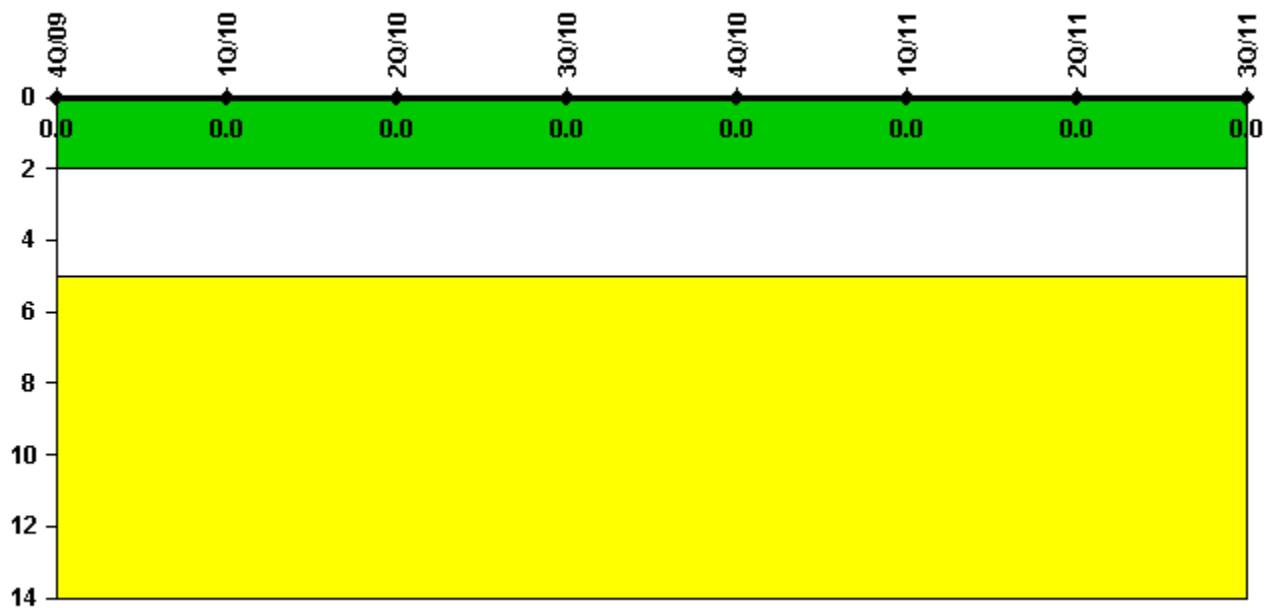
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful siren-tests	1121	1014	878	1065	956	1012	1176	1201
Total sirens-tests	1163	1018	881	1067	957	1013	1179	1204
Indicator value	98.5%	98.4%	98.3%	98.8%	99.7%	99.8%	99.8%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



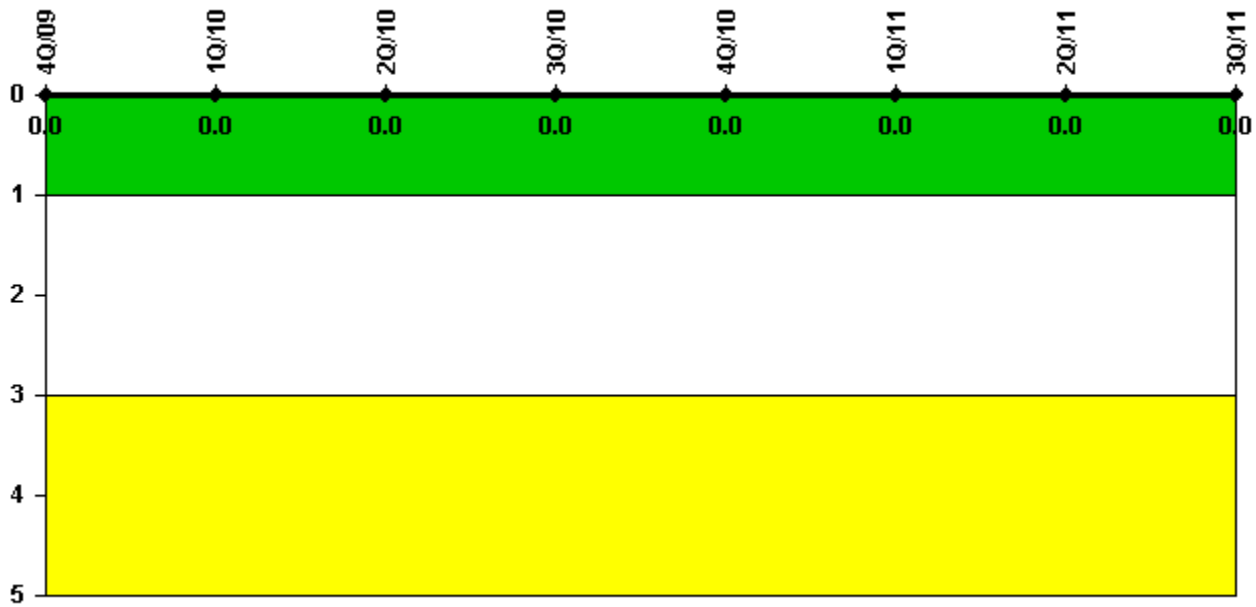
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

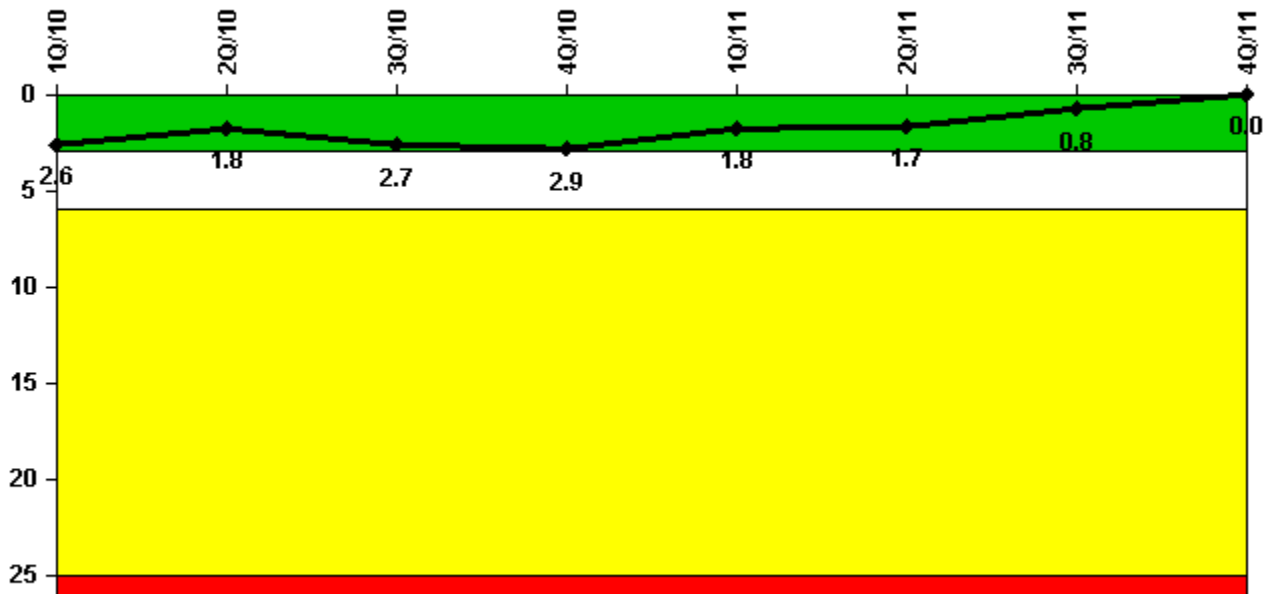
[Security](#) information not publicly available.

Indian Point 2

4Q/2011 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



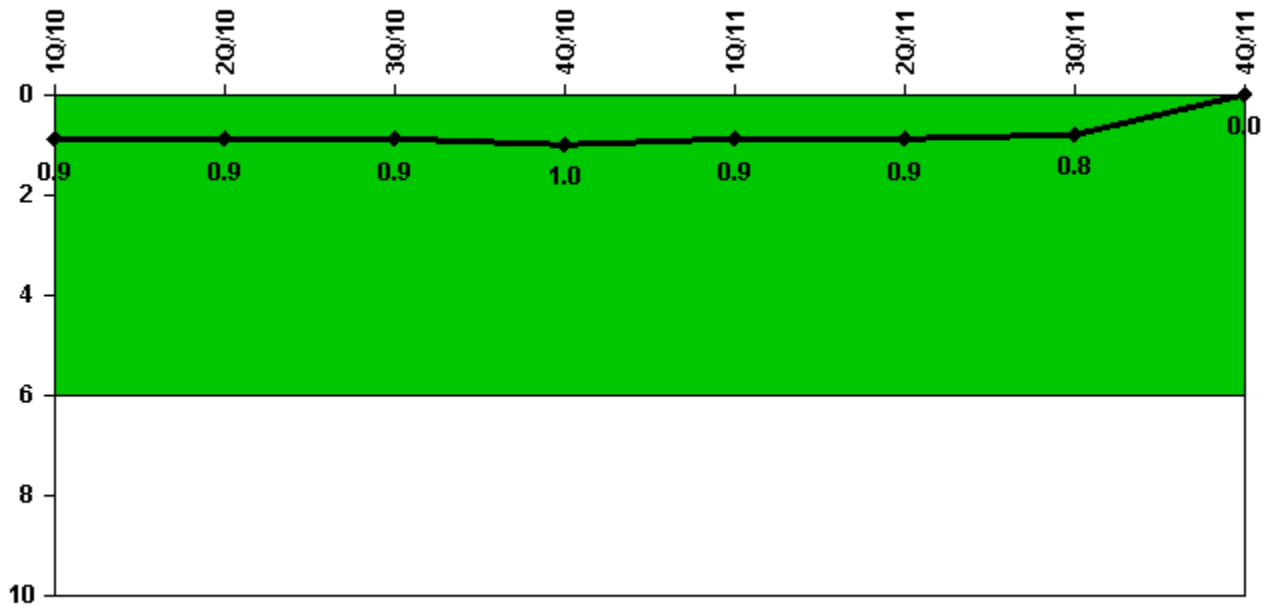
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned scrams	1.0	0	1.0	1.0	0	0	0	0
Critical hours	1614.4	1953.4	1966.5	1832.8	2159.0	2087.1	2208.0	2209.0
Indicator value	2.6	1.8	2.7	2.9	1.8	1.7	0.8	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



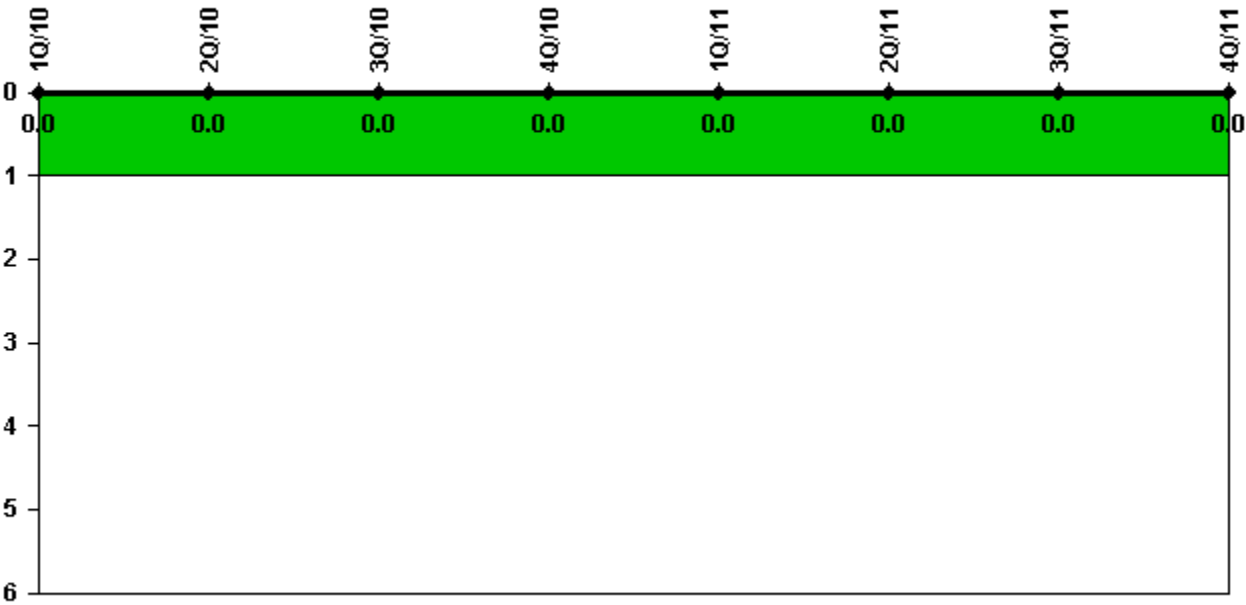
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	1614.4	1953.4	1966.5	1832.8	2159.0	2087.1	2208.0	2209.0
Indicator value	0.9	0.9	0.9	1.0	0.9	0.9	0.8	0

Licensee Comments: none

Unplanned Scrams with Complications



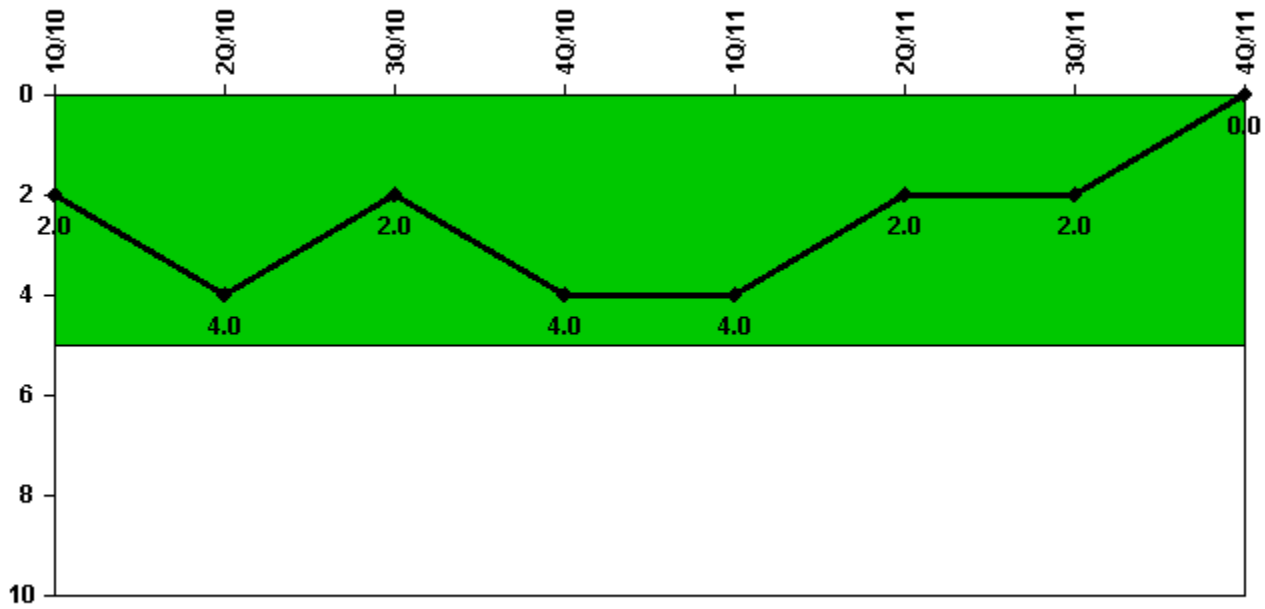
Thresholds: White > 1.0

Notes

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



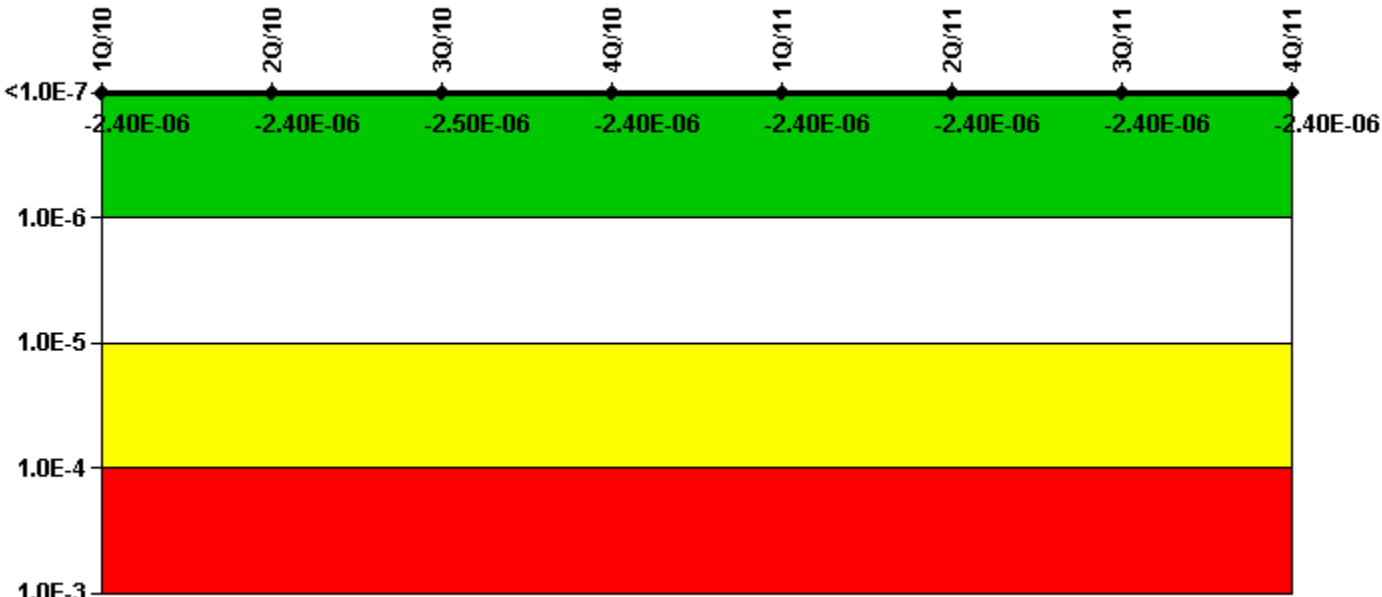
Thresholds: White > 5.0

Notes

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

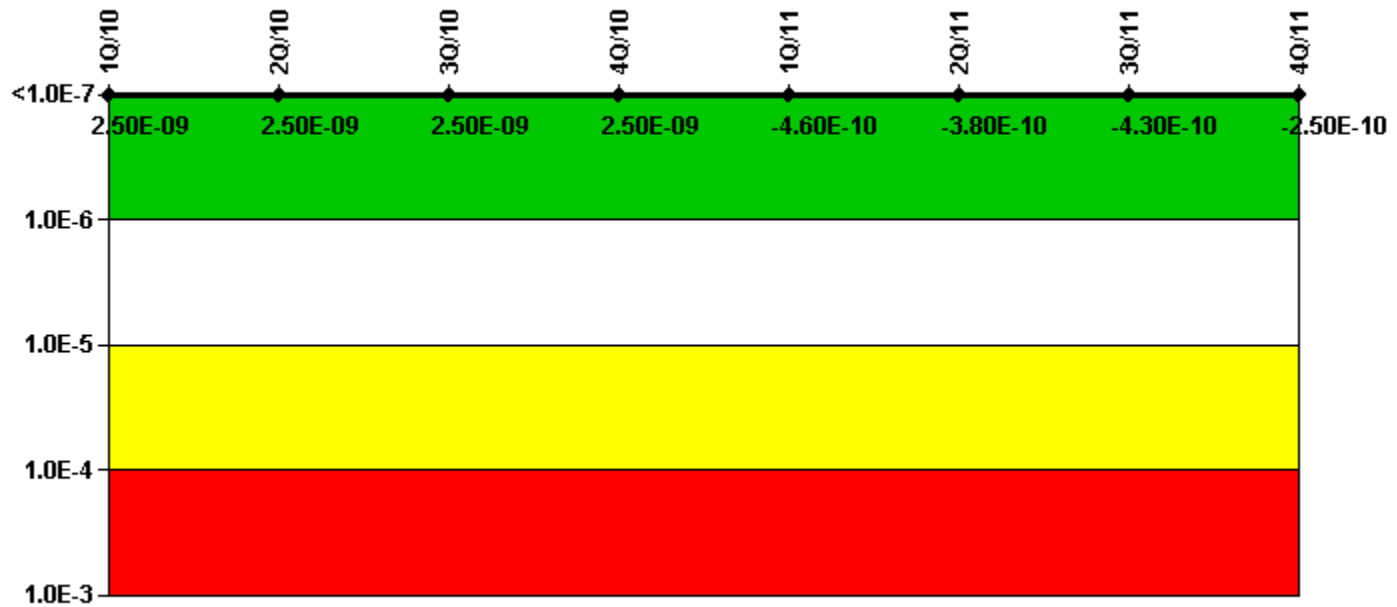
Notes

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 (ΔCDF)	7.28E-07	6.75E-07	6.41E-07	7.42E-07	6.97E-07	6.06E-07	6.11E-07	5.48E-07
URI (ΔCDF)	-3.09E-06	-3.12E-06	-3.12E-06	-3.13E-06	-3.12E-06	-2.98E-06	-3.00E-06	-2.97E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-06	-2.40E-06	-2.50E-06	-2.40E-06	-2.40E-06	-2.40E-06	-2.40E-06	-2.40E-06

Licensee Comments:

4Q/11: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



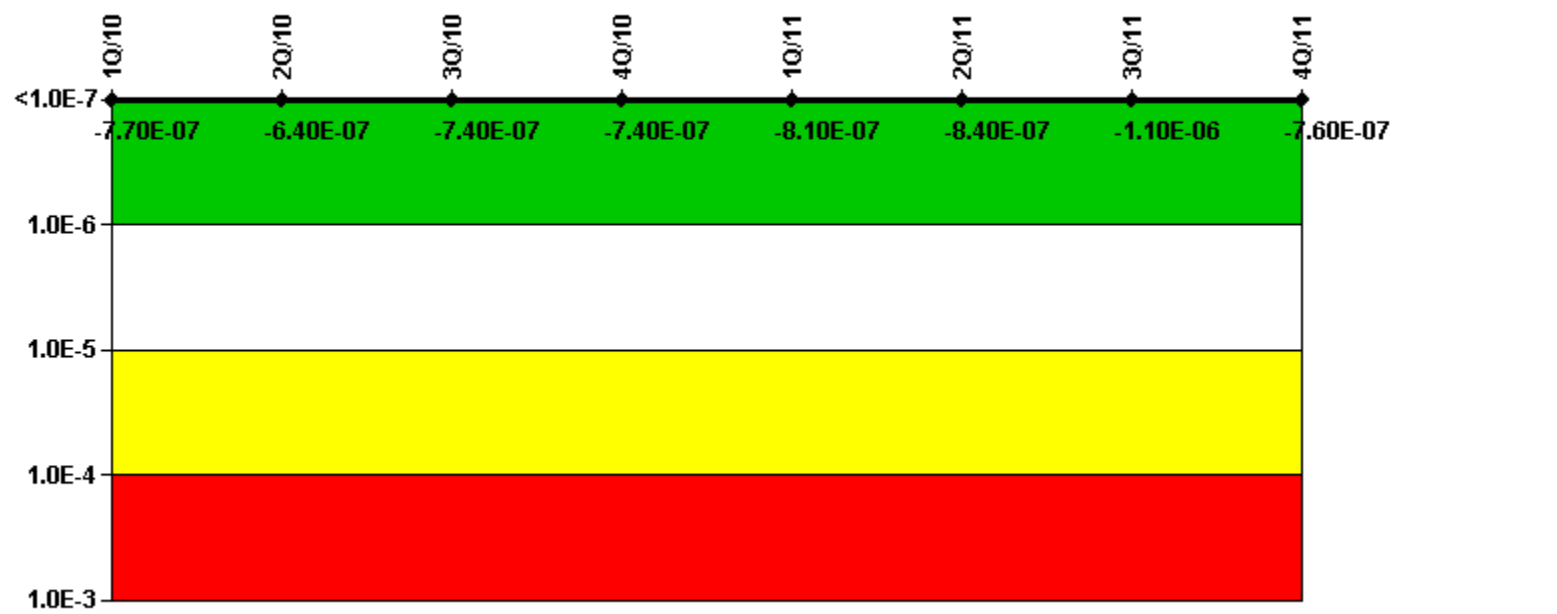
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	-2.00E-10	-2.03E-10	-2.03E-10	-2.03E-10	-2.03E-10	-1.44E-10	-2.03E-10	-7.35E-12
URI (Δ CDF)	2.74E-09	2.72E-09	2.72E-09	2.71E-09	-2.56E-10	-2.36E-10	-2.31E-10	-2.46E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.50E-09	2.50E-09	2.50E-09	2.50E-09	-4.60E-10	-3.80E-10	-4.30E-10	-2.50E-10

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



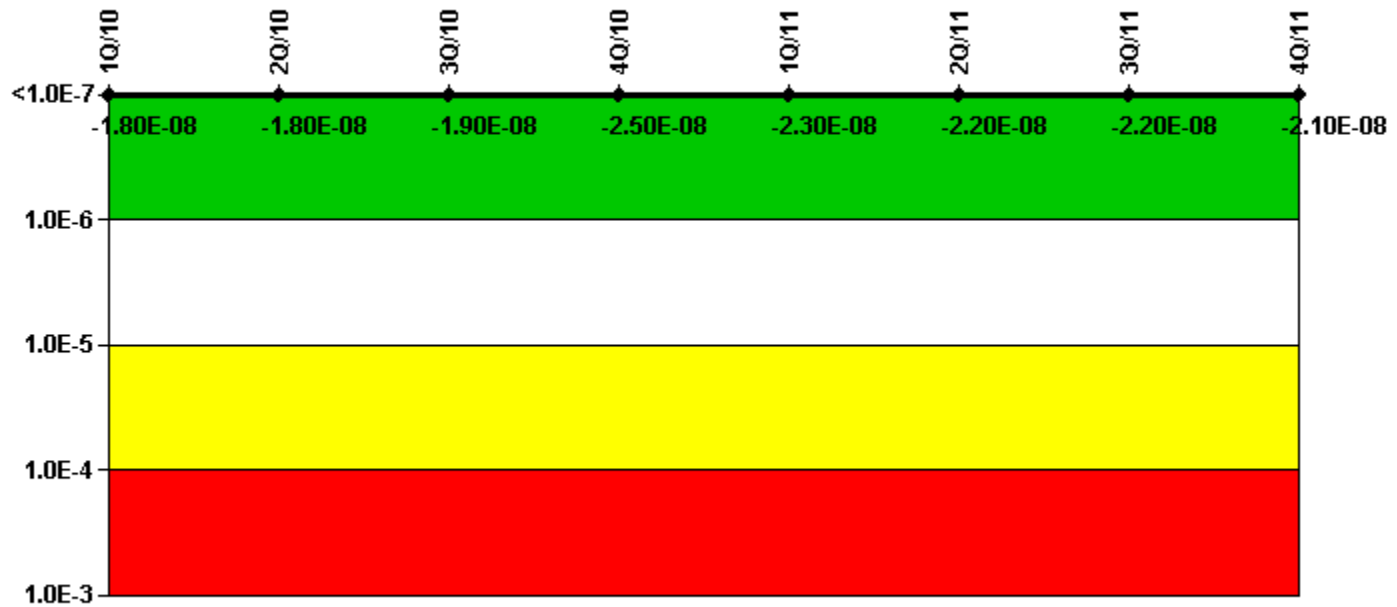
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	1.67E-07	3.61E-07	2.68E-07	3.16E-07	2.08E-07	1.39E-07	-8.04E-08	-1.90E-07
URI (ΔCDF)	-9.36E-07	-1.00E-06	-1.01E-06	-1.05E-06	-1.02E-06	-9.79E-07	-9.76E-07	-5.68E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.70E-07	-6.40E-07	-7.40E-07	-7.40E-07	-8.10E-07	-8.40E-07	-1.10E-06	-7.60E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



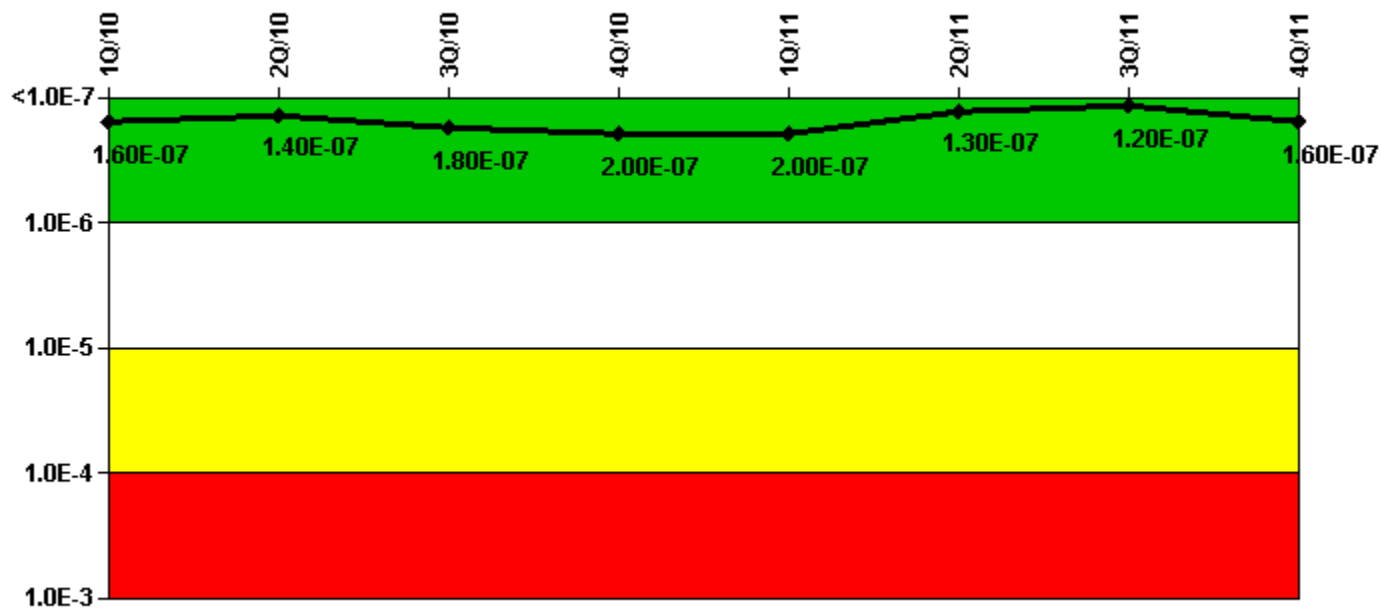
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (Δ CDF)	-5.84E-09	-5.77E-09	-5.73E-09	-1.09E-08	-1.09E-08	-1.09E-08	-1.10E-08	-1.09E-08
URI (Δ CDF)	-1.19E-08	-1.27E-08	-1.31E-08	-1.37E-08	-1.24E-08	-1.11E-08	-1.09E-08	-1.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-1.80E-08	-1.90E-08	-2.50E-08	-2.30E-08	-2.20E-08	-2.20E-08	-2.10E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



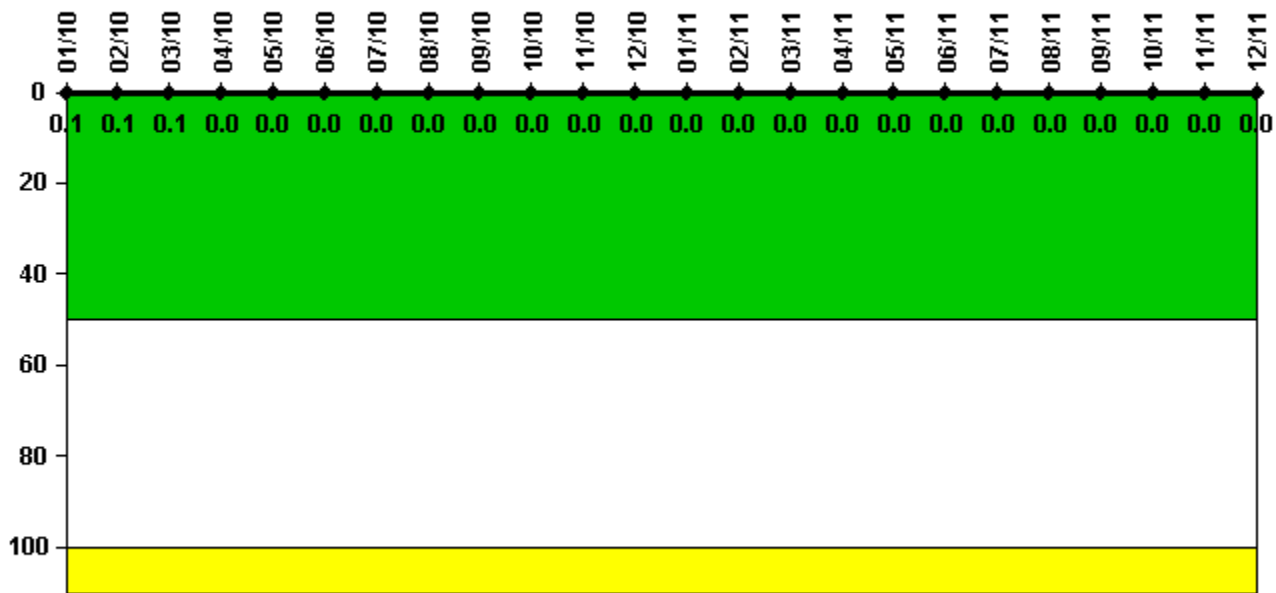
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	5.96E-08	7.47E-08	8.53E-08	1.01E-07	1.27E-07	7.99E-08	7.49E-08	7.59E-08
URI (ΔCDF)	9.87E-08	6.63E-08	9.91E-08	1.03E-07	7.15E-08	4.61E-08	4.59E-08	8.02E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.60E-07	1.40E-07	1.80E-07	2.00E-07	2.00E-07	1.30E-07	1.20E-07	1.60E-07

Licensee Comments: none

Reactor Coolant System Activity



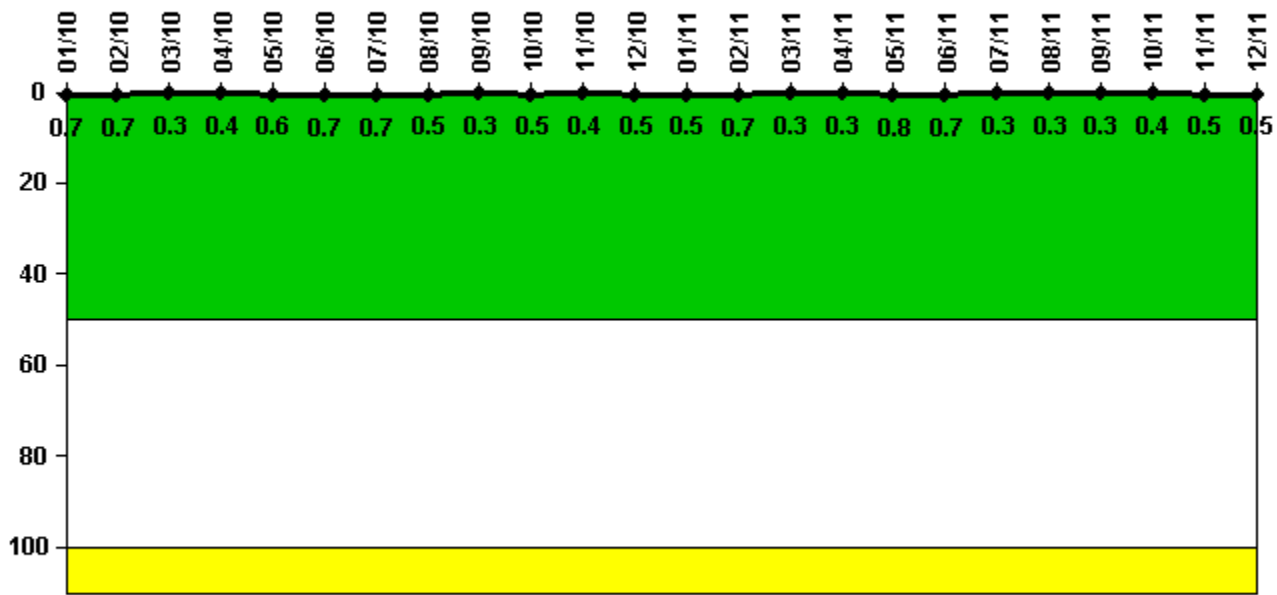
Thresholds: White > 50.0 Yellow > 100.0

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	0.000882	0.000897	0.000936	0.000342	0.000268	0.000286	0.000293	0.000311	0.000304	0.000333	0.000325	0.000350
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum activity	0.000362	0.000333	0.000389	0.000370	0.000411	0.000398	0.000446	0.000450	0.000474	0.000472	0.000467	0.000476
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



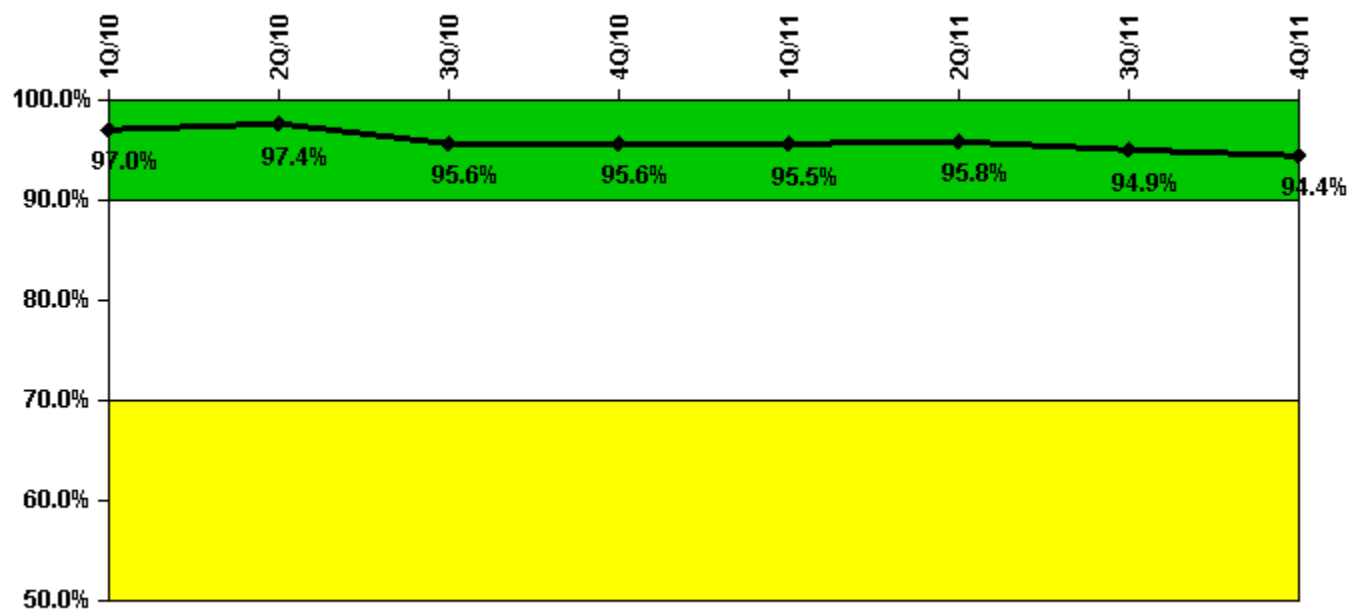
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum leakage	0.070	0.070	0.030	0.040	0.060	0.070	0.070	0.050	0.030	0.050	0.040	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.7	0.3	0.4	0.6	0.7	0.7	0.5	0.3	0.5	0.4	0.5
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	0.050	0.070	0.030	0.030	0.080	0.070	0.030	0.030	0.030	0.040	0.050	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.5	0.7	0.3	0.3	0.8	0.7	0.3	0.3	0.3	0.4	0.5	0.5

Licensee Comments: none

Drill/Exercise Performance



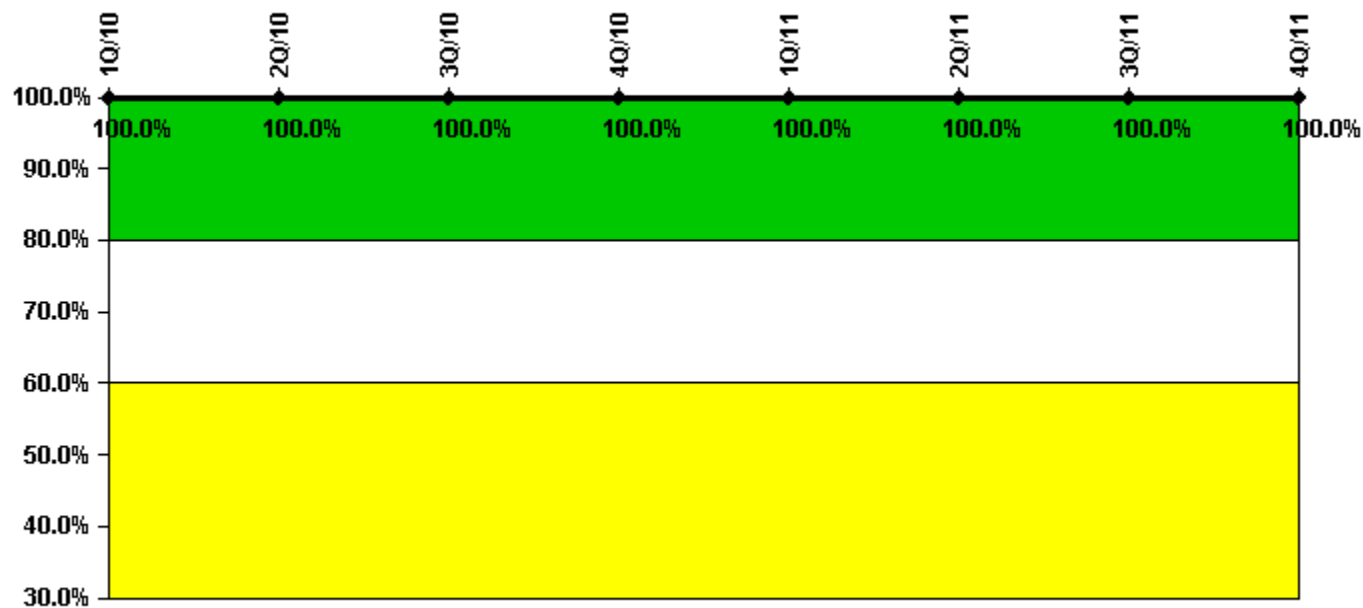
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful opportunities	17.0	46.0	97.0	55.0	19.0	66.0	143.0	14.0
Total opportunities	18.0	48.0	108.0	56.0	21.0	66.0	151.0	16.0
Indicator value	97.0%	97.4%	95.6%	95.6%	95.5%	95.8%	94.9%	94.4%

Licensee Comments: none

ERO Drill Participation



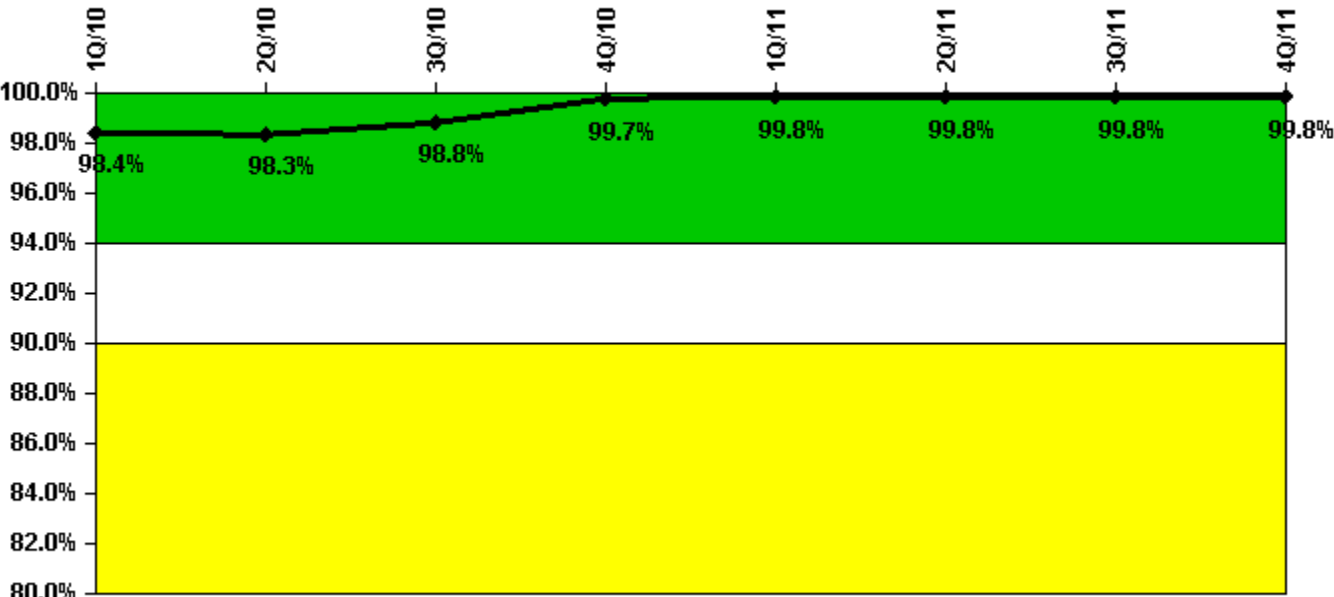
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Participating Key personnel	108.0	113.0	107.0	104.0	102.0	102.0	105.0	104.0
Total Key personnel	108.0	113.0	107.0	104.0	102.0	102.0	105.0	104.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



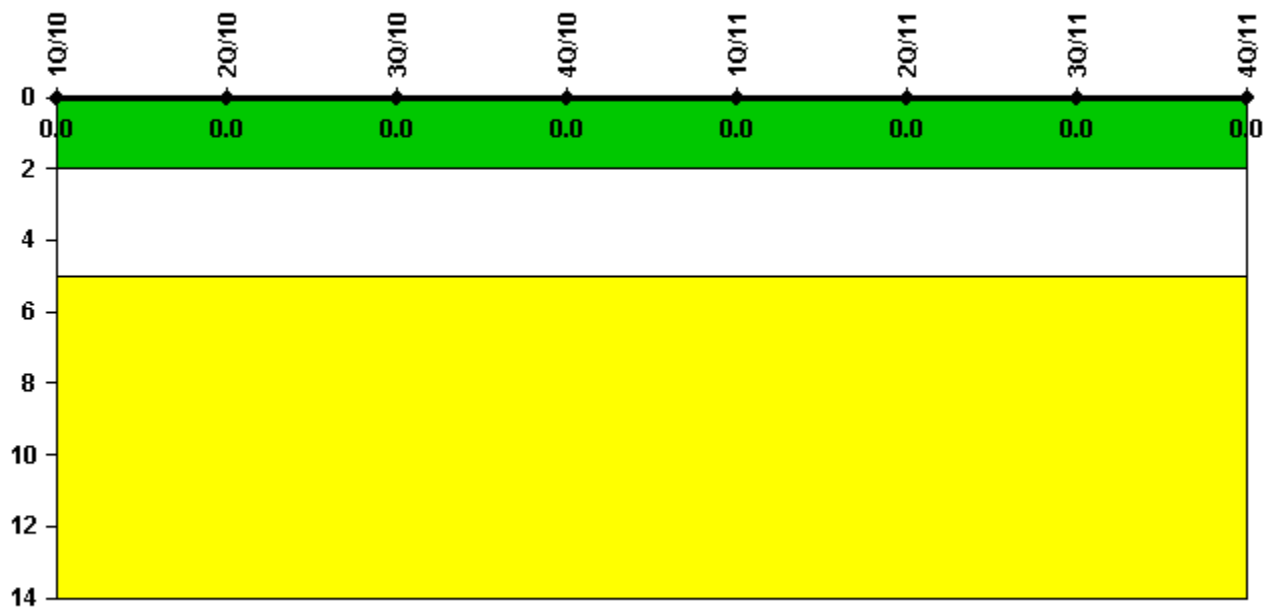
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful siren-tests	1014	878	1065	956	1012	1176	1201	993
Total sirens-tests	1018	881	1067	957	1013	1179	1204	996
Indicator value	98.4%	98.3%	98.8%	99.7%	99.8%	99.8%	99.8%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



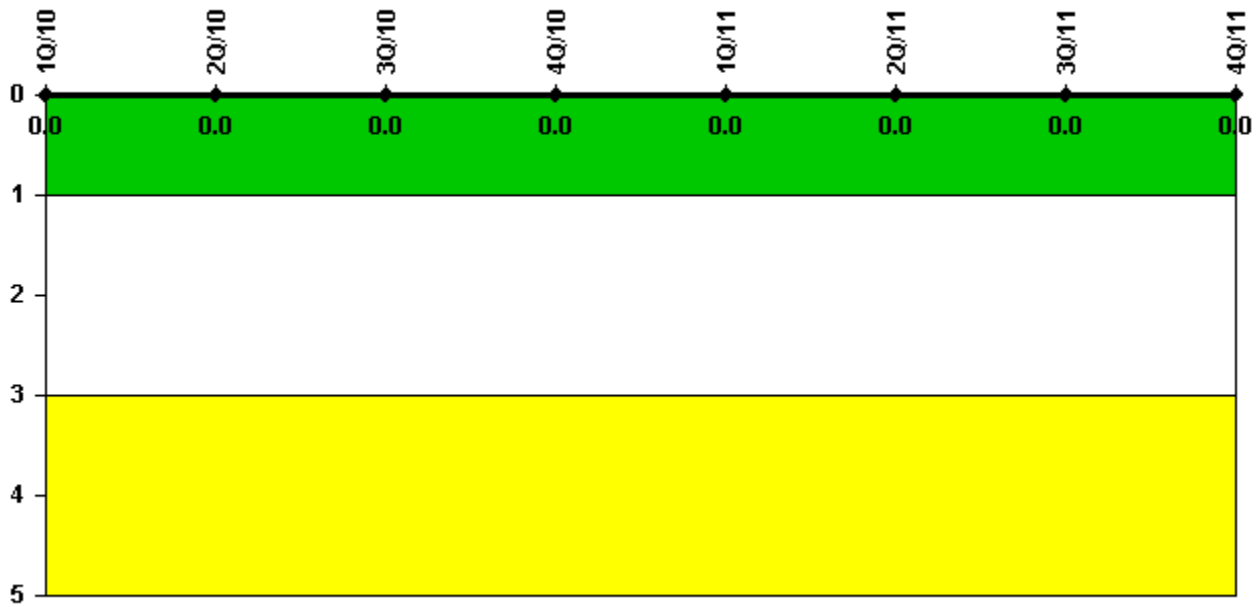
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

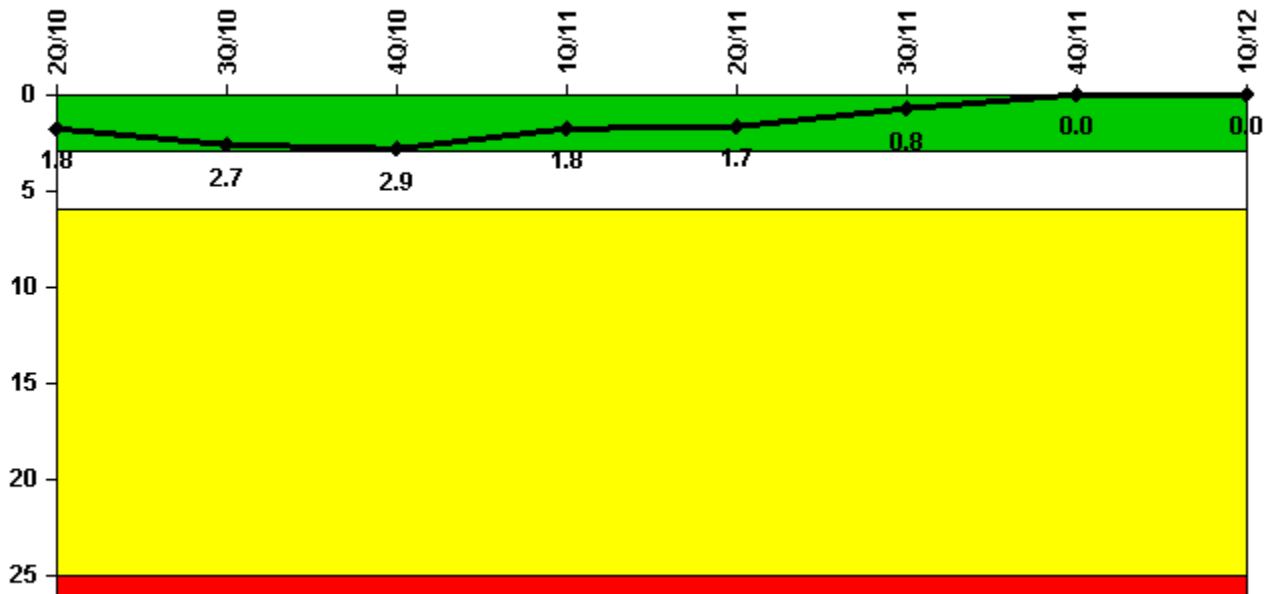
[Security](#) information not publicly available.

Indian Point 2

1Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



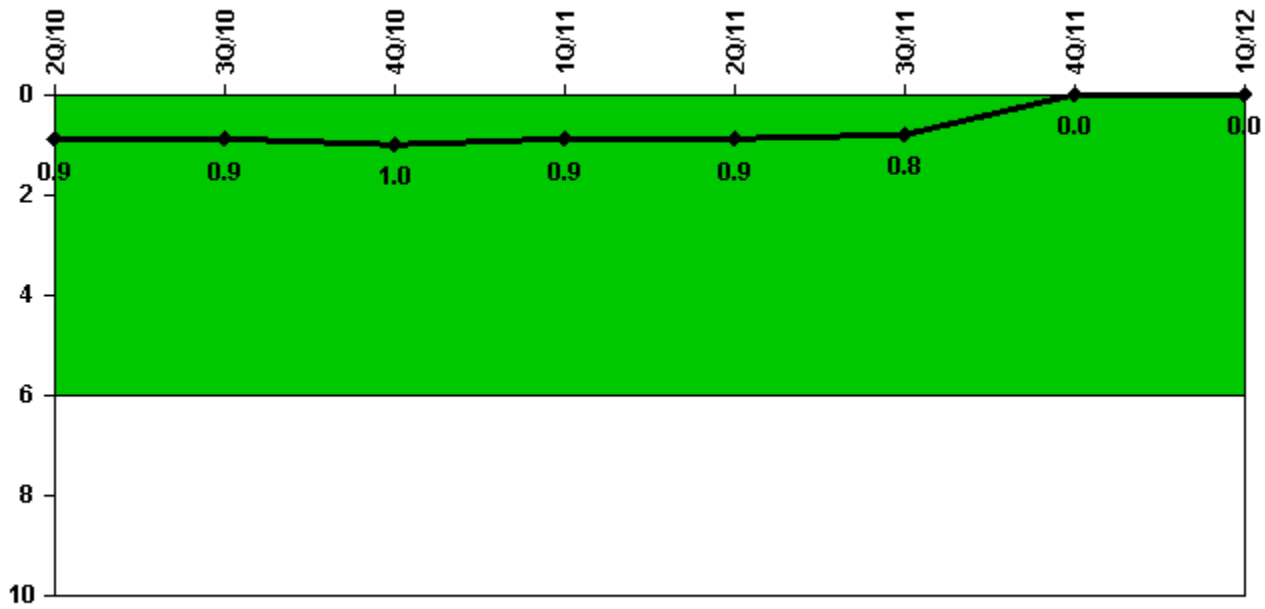
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned scrams	0	1.0	1.0	0	0	0	0	0
Critical hours	1953.4	1966.5	1832.8	2159.0	2087.1	2208.0	2209.0	1368.1
Indicator value	1.8	2.7	2.9	1.8	1.7	0.8	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



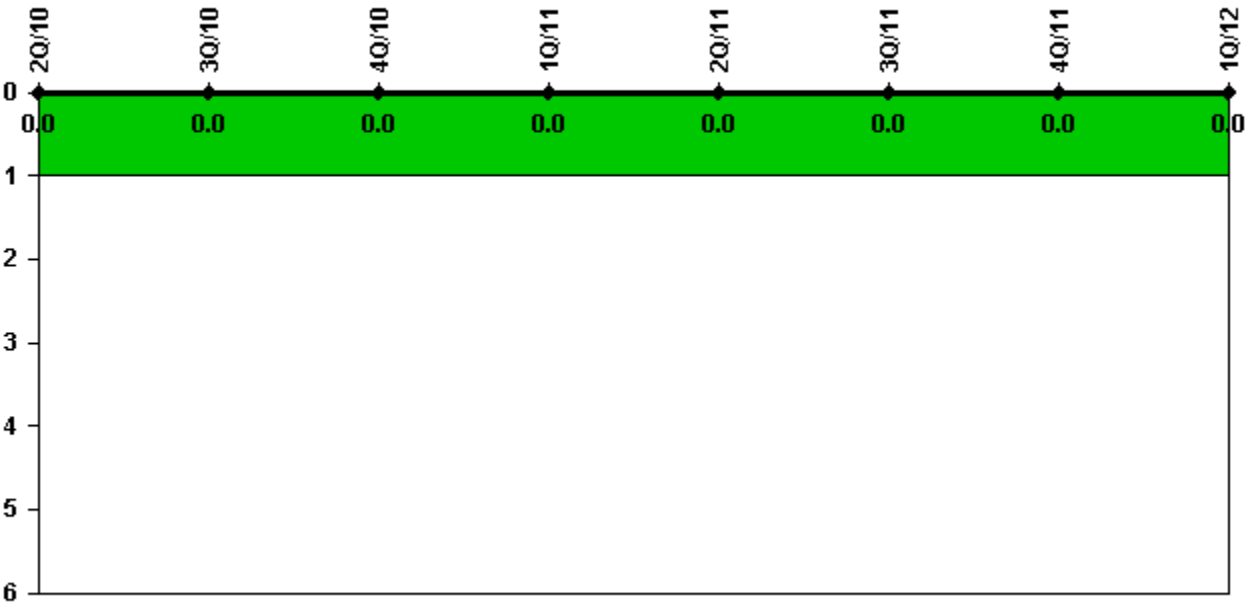
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	1953.4	1966.5	1832.8	2159.0	2087.1	2208.0	2209.0	1368.1
Indicator value	0.9	0.9	1.0	0.9	0.9	0.8	0	0

Licensee Comments: none

Unplanned Scrams with Complications



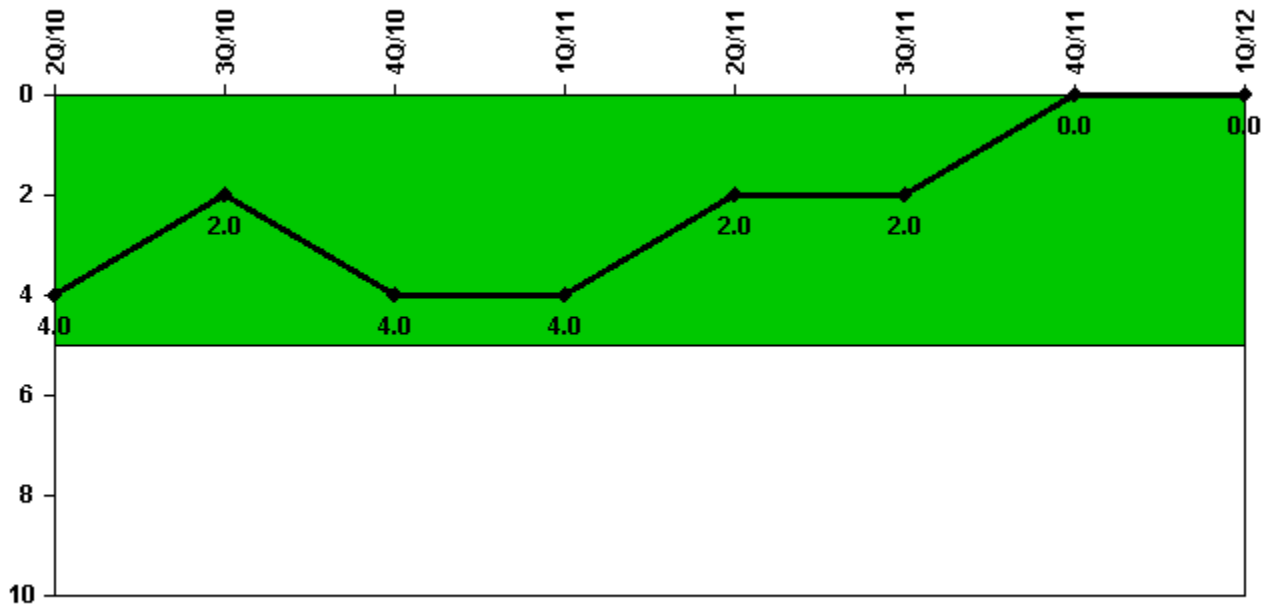
Thresholds: White > 1.0

Notes

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



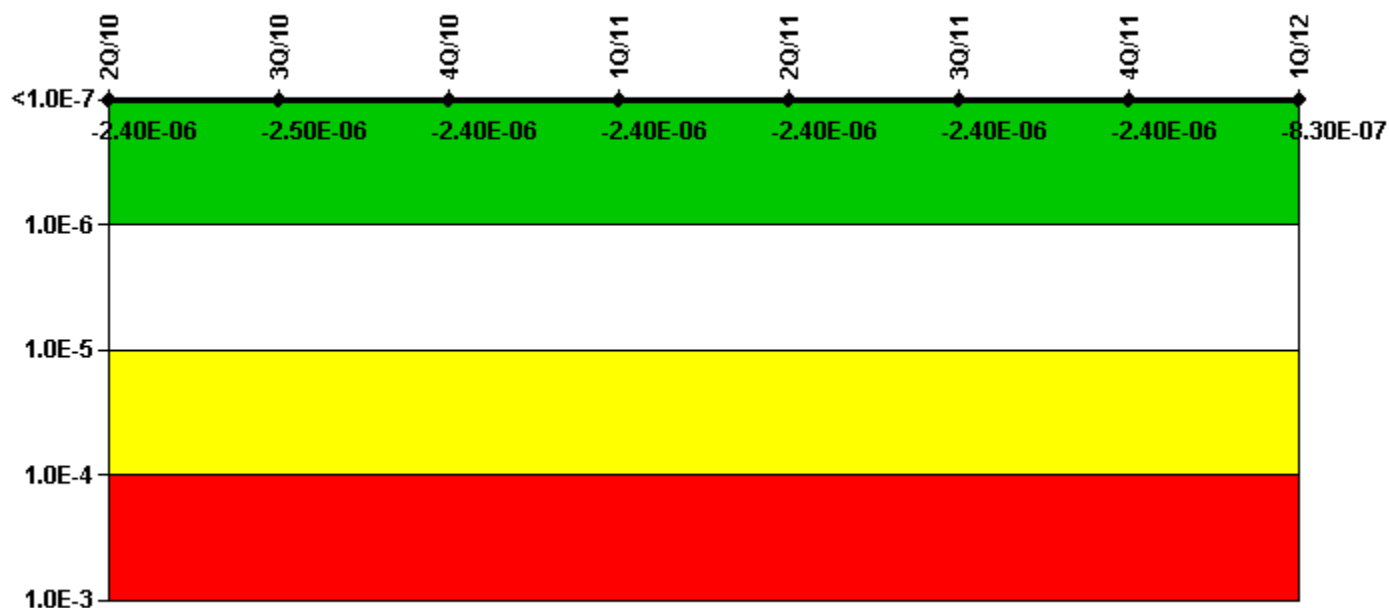
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Safety System Functional Failures	2	0	2	0	0	0	0	0
Indicator value	4	2	4	4	2	2	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 (ΔCDF)	6.75E-07	6.41E-07	7.42E-07	6.97E-07	6.06E-07	6.11E-07	5.48E-07	7.71E-08
URI (ΔCDF)	-3.12E-06	-3.12E-06	-3.13E-06	-3.12E-06	-2.98E-06	-3.00E-06	-2.97E-06	-9.11E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-06	-2.50E-06	-2.40E-06	-2.40E-06	-2.40E-06	-2.40E-06	-2.40E-06	-8.30E-07

Licensee Comments:

1Q/12: Changed PRA Parameter(s).

4Q/11: Risk Cap Invoked.

3Q/11: Risk Cap Invoked.

2Q/11: Risk Cap Invoked.

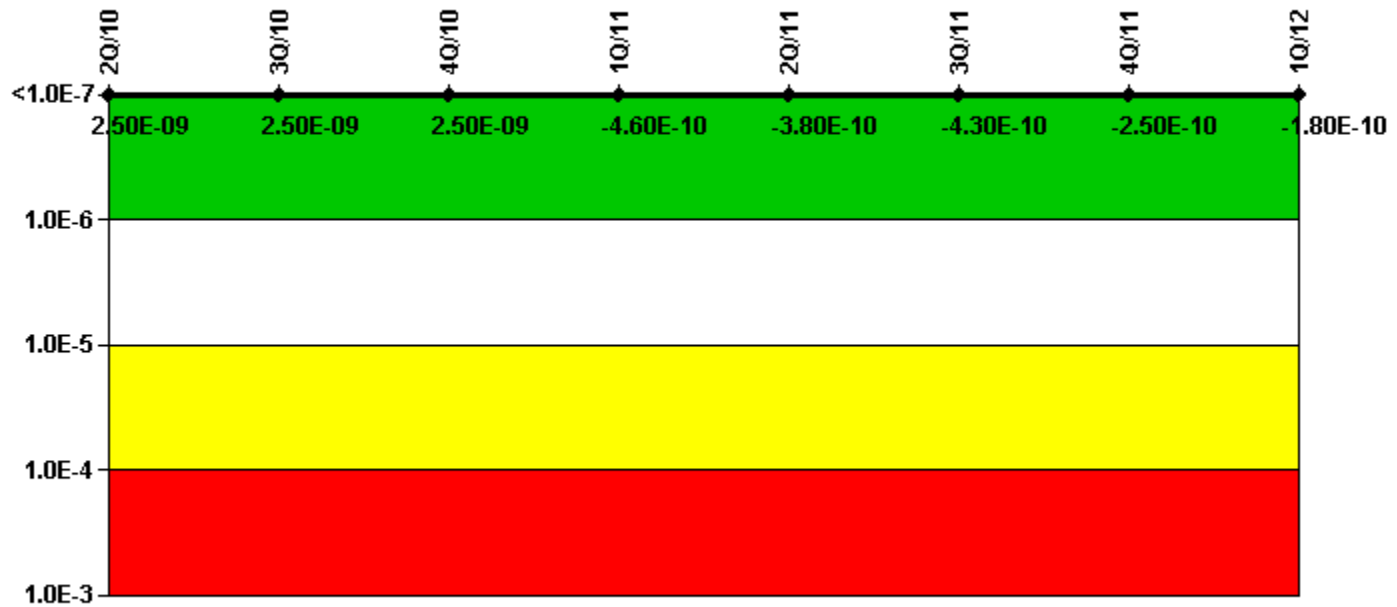
1Q/11: Risk Cap Invoked.

4Q/10: Risk Cap Invoked.

3Q/10: Risk Cap Invoked.

2Q/10: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



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

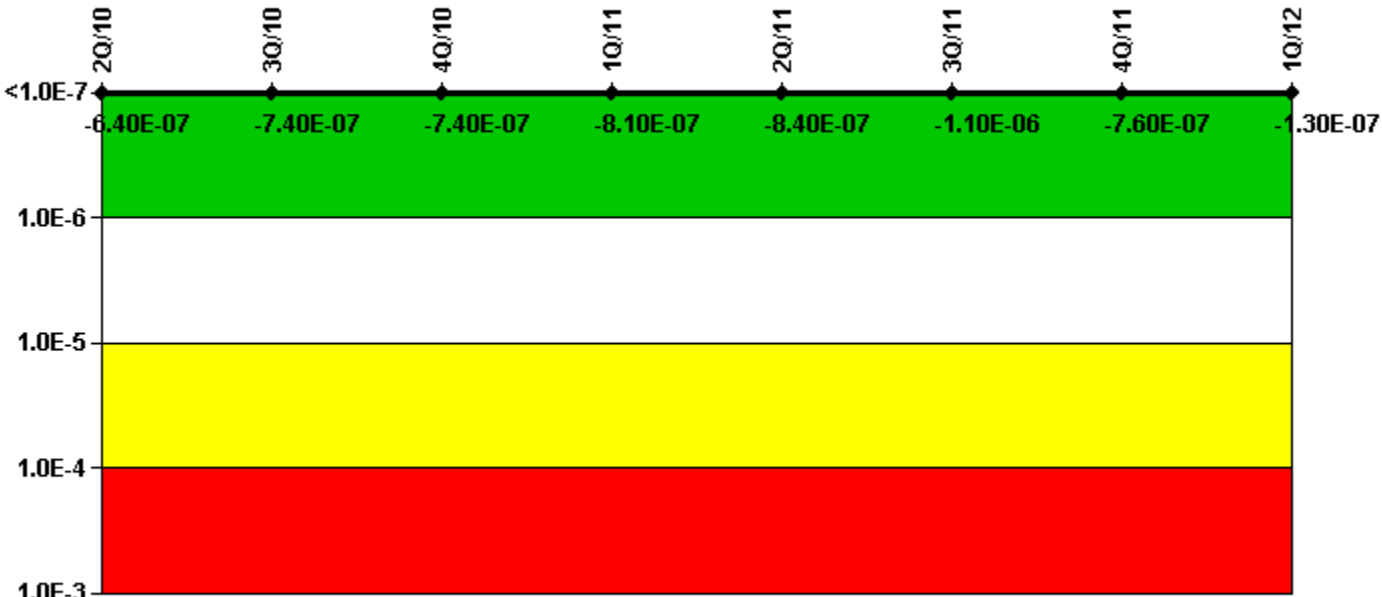
Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	-2.03E-10	-2.03E-10	-2.03E-10	-2.03E-10	-1.44E-10	-2.03E-10	-7.35E-12	-2.90E-11
URI (Δ CDF)	2.72E-09	2.72E-09	2.71E-09	-2.56E-10	-2.36E-10	-2.31E-10	-2.46E-10	-1.53E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.50E-09	2.50E-09	2.50E-09	-4.60E-10	-3.80E-10	-4.30E-10	-2.50E-10	-1.80E-10

Licensee Comments:

1Q/12: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Heat Removal System



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

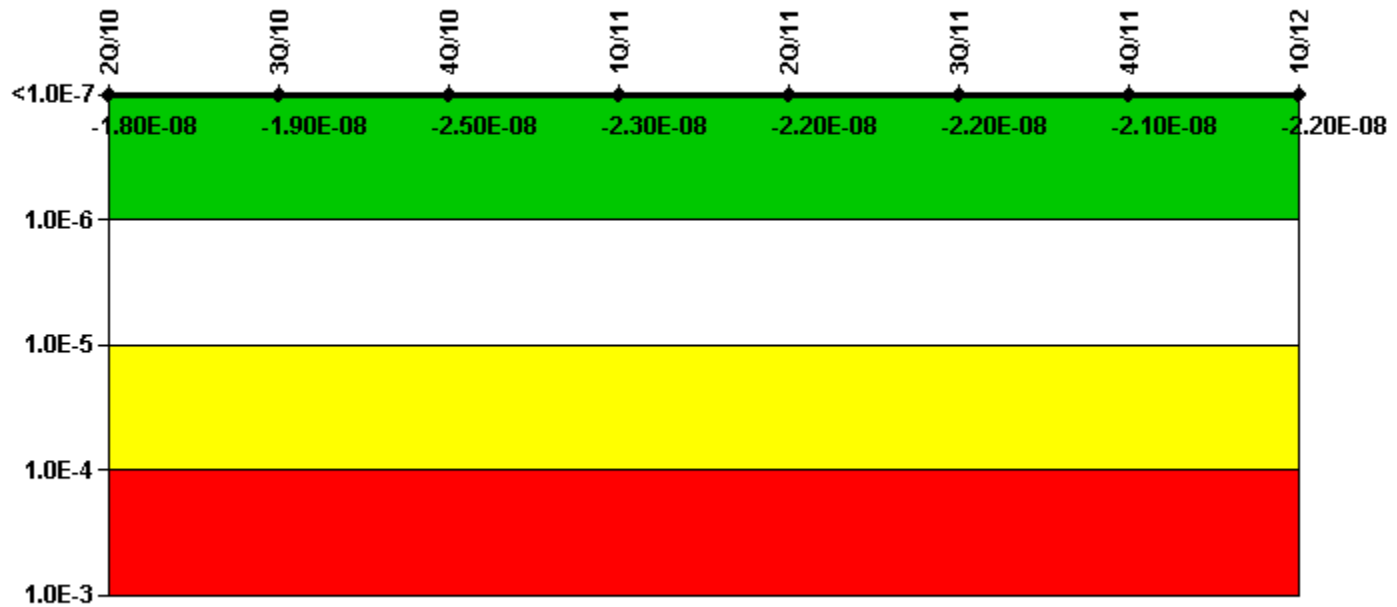
Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	3.61E-07	2.68E-07	3.16E-07	2.08E-07	1.39E-07	-8.04E-08	-1.90E-07	-1.80E-08
URI (ΔCDF)	-1.00E-06	-1.01E-06	-1.05E-06	-1.02E-06	-9.79E-07	-9.76E-07	-5.68E-07	-1.15E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.40E-07	-7.40E-07	-7.40E-07	-8.10E-07	-8.40E-07	-1.10E-06	-7.60E-07	-1.30E-07

Licensee Comments:

1Q/12: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Residual Heat Removal System



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

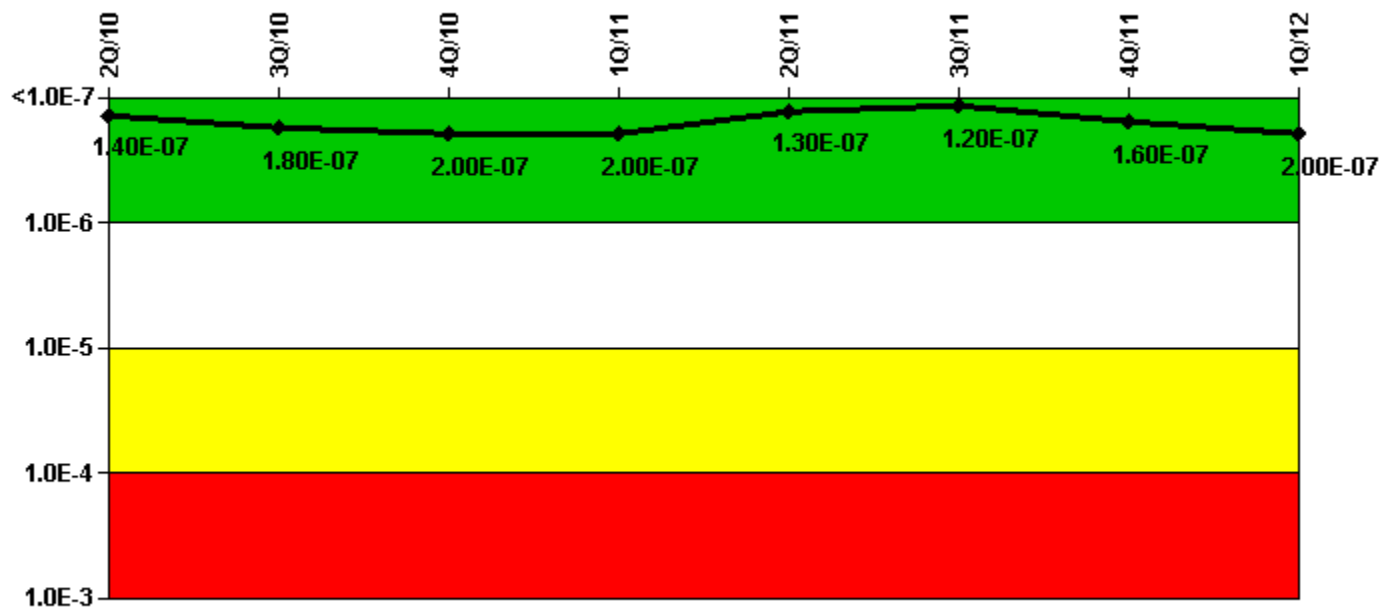
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	-5.77E-09	-5.73E-09	-1.09E-08	-1.09E-08	-1.09E-08	-1.10E-08	-1.09E-08	-8.82E-09
URI (Δ CDF)	-1.27E-08	-1.31E-08	-1.37E-08	-1.24E-08	-1.11E-08	-1.09E-08	-1.05E-08	-1.36E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-08	-1.90E-08	-2.50E-08	-2.30E-08	-2.20E-08	-2.20E-08	-2.10E-08	-2.20E-08

Licensee Comments:

1Q/12: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

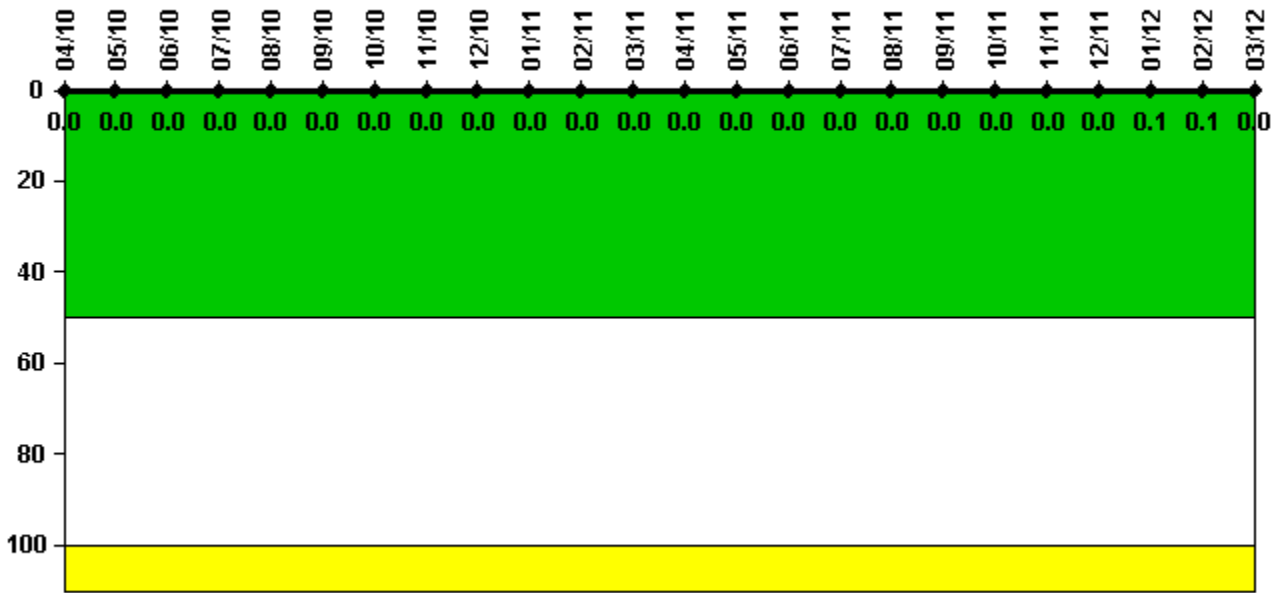
Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	7.47E-08	8.53E-08	1.01E-07	1.27E-07	7.99E-08	7.49E-08	7.59E-08	2.06E-08
URI (ΔCDF)	6.63E-08	9.91E-08	1.03E-07	7.15E-08	4.61E-08	4.59E-08	8.02E-08	1.76E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.40E-07	1.80E-07	2.00E-07	2.00E-07	1.30E-07	1.20E-07	1.60E-07	2.00E-07

Licensee Comments:

1Q/12: Changed PRA Parameter(s).

Reactor Coolant System Activity



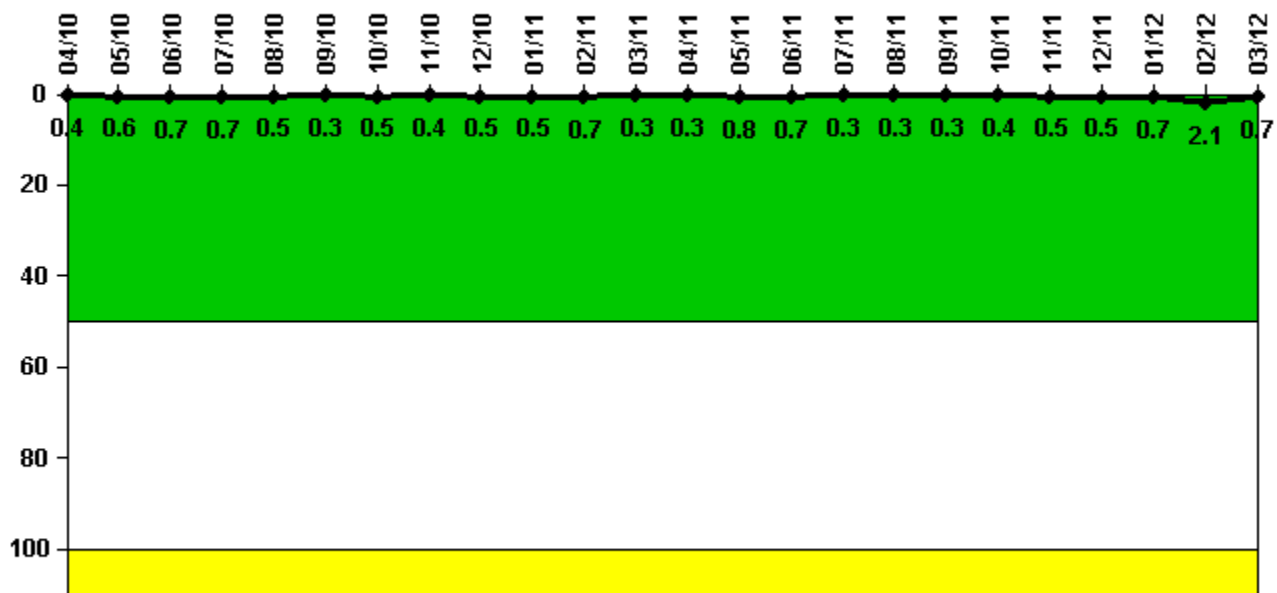
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum activity	0.000342	0.000268	0.000286	0.000293	0.000311	0.000304	0.000333	0.000325	0.000350	0.000362	0.000333	0.000389
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum activity	0.000370	0.000411	0.000398	0.000446	0.000450	0.000474	0.000472	0.000467	0.000476	0.000500	0.000509	0.000459
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0.1	0.1	0

Licensee Comments: none

Reactor Coolant System Leakage



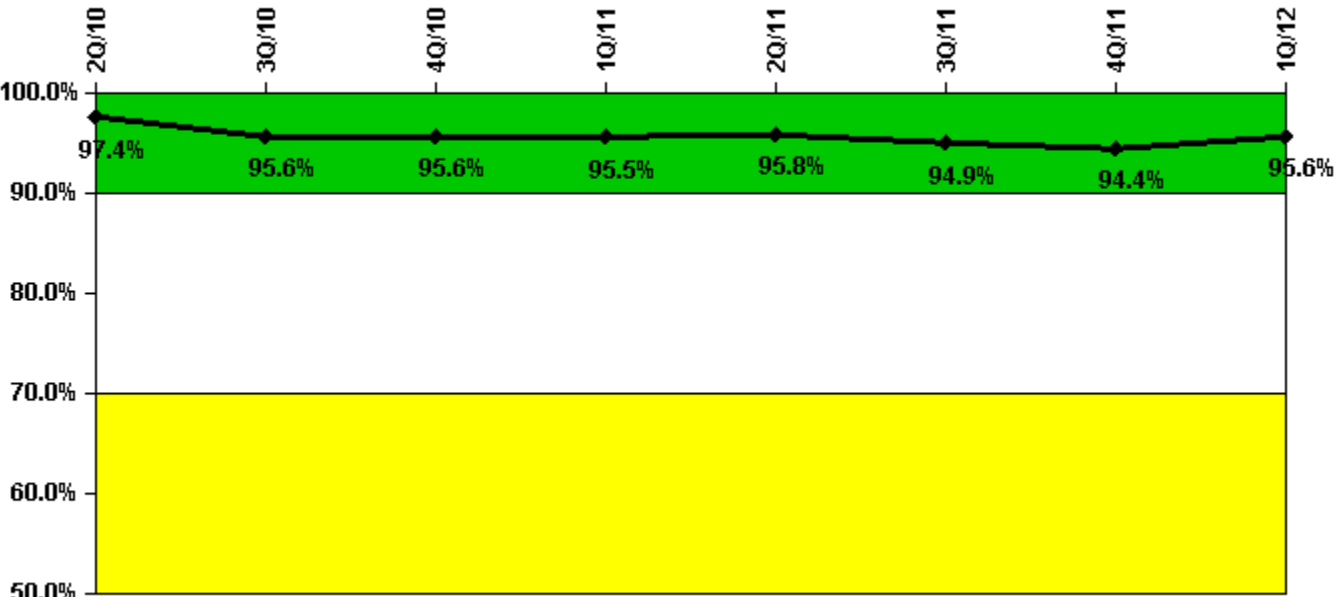
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum leakage	0.040	0.060	0.070	0.070	0.050	0.030	0.050	0.040	0.050	0.050	0.070	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	0.4	0.6	0.7	0.7	0.5	0.3	0.5	0.4	0.5	0.5	0.7	0.3
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	0.030	0.080	0.070	0.030	0.030	0.030	0.040	0.050	0.050	0.070	0.210	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.3	0.8	0.7	0.3	0.3	0.3	0.4	0.5	0.5	0.7	2.1	0.7

Licensee Comments: none

Drill/Exercise Performance



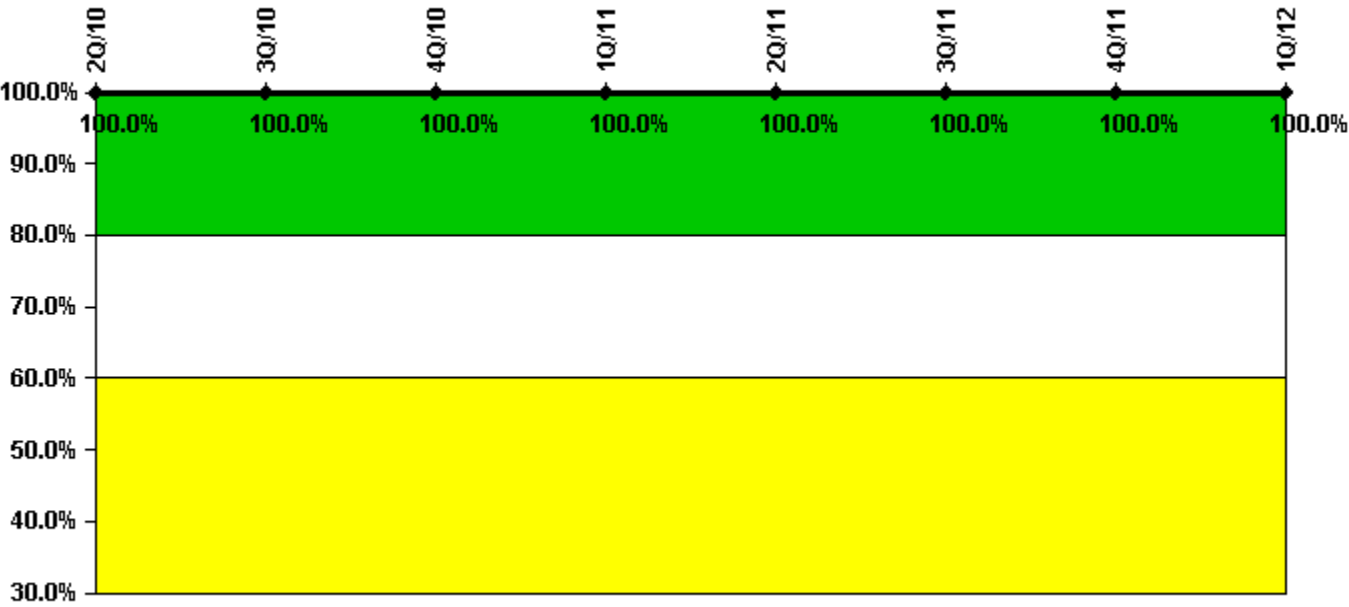
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful opportunities	46.0	97.0	55.0	19.0	66.0	143.0	14.0	131.0
Total opportunities	48.0	108.0	56.0	21.0	66.0	151.0	16.0	131.0
Indicator value	97.4%	95.6%	95.6%	95.5%	95.8%	94.9%	94.4%	95.6%

Licensee Comments: none

ERO Drill Participation



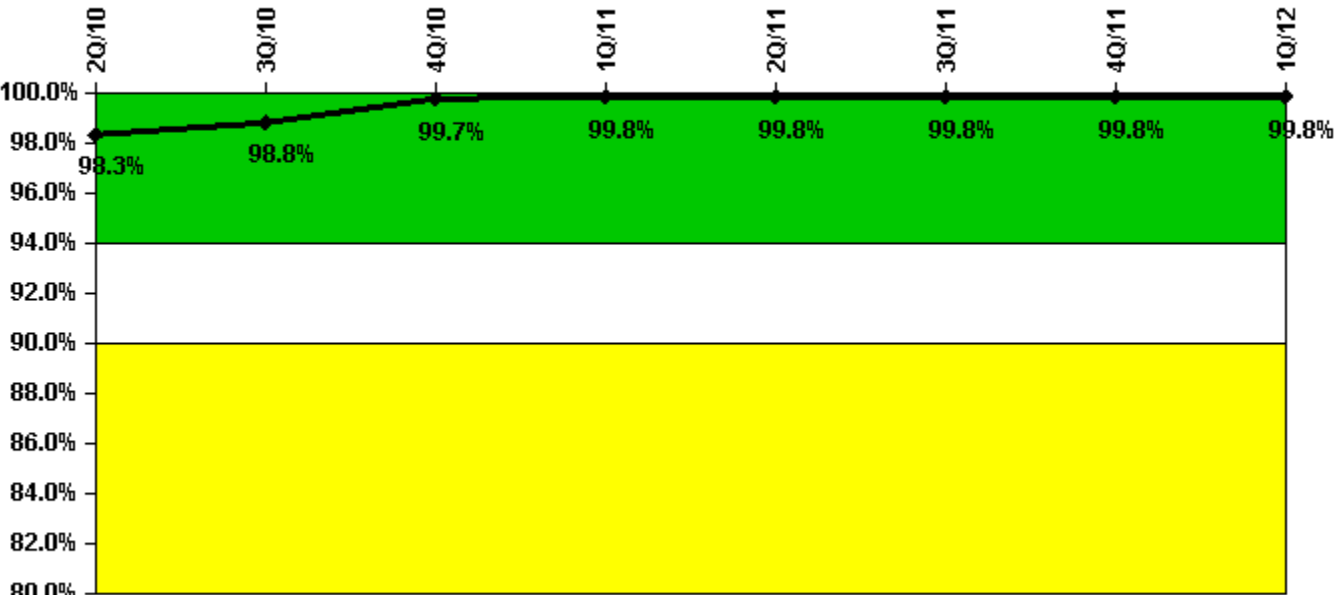
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Participating Key personnel	113.0	107.0	104.0	102.0	102.0	105.0	104.0	106.0
Total Key personnel	113.0	107.0	104.0	102.0	102.0	105.0	104.0	106.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



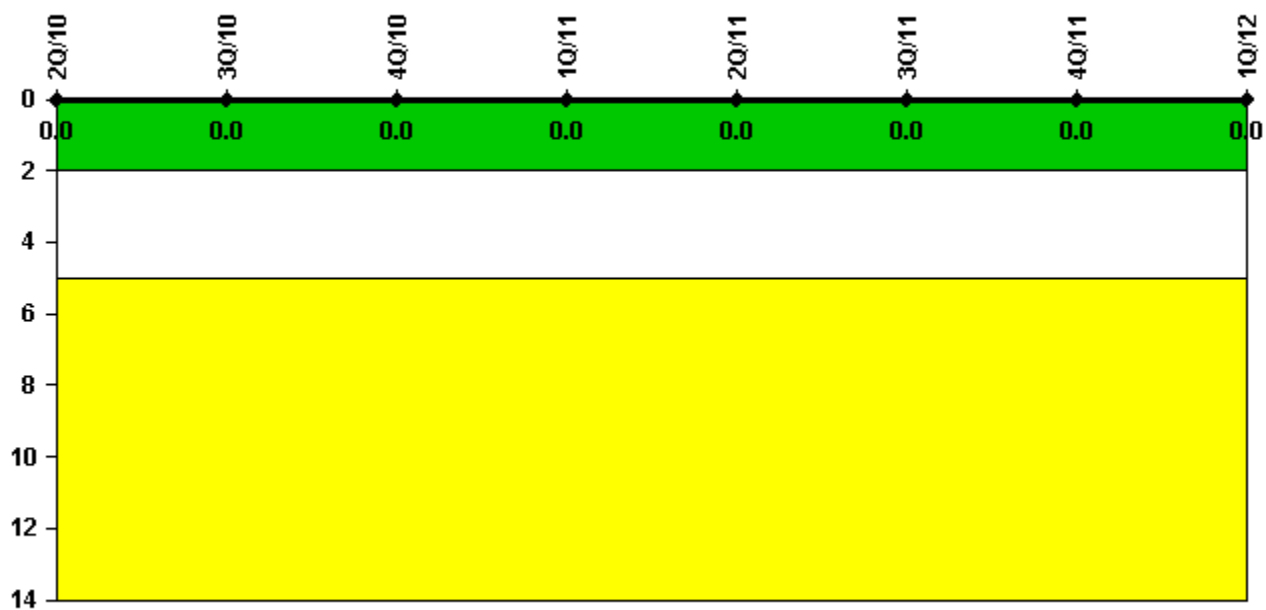
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful siren-tests	878	1065	956	1012	1176	1201	993	956
Total sirens-tests	881	1067	957	1013	1179	1204	996	957
Indicator value	98.3%	98.8%	99.7%	99.8%	99.8%	99.8%	99.8%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



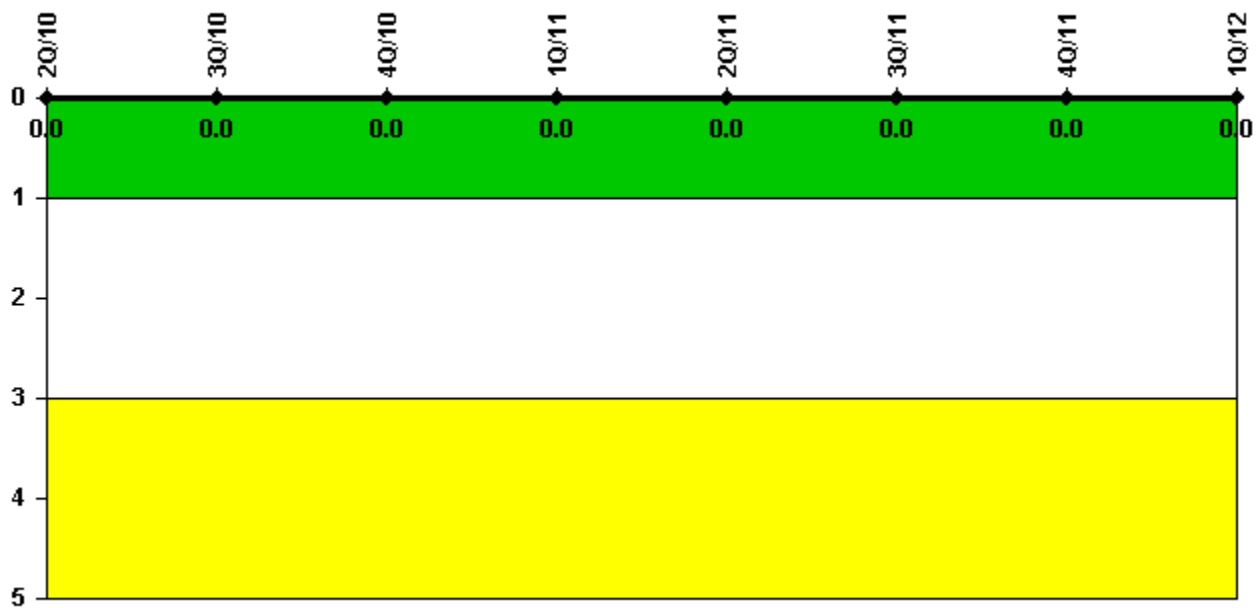
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

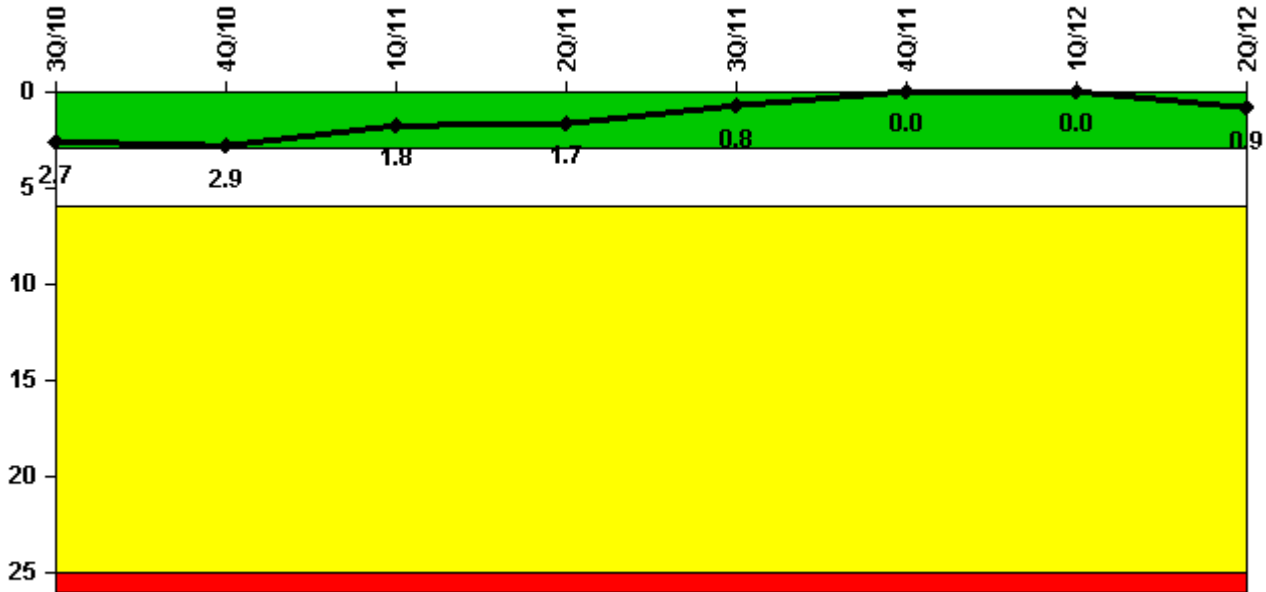
[Security](#) information not publicly available.

Indian Point 2

2Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



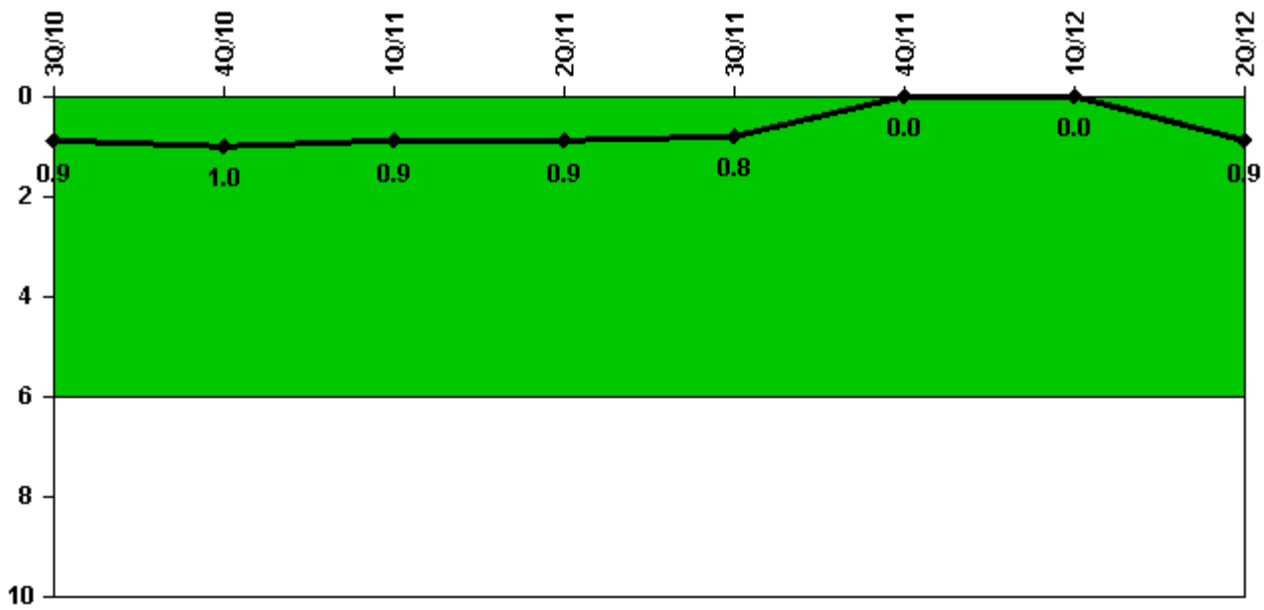
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned scrams	1.0	1.0	0	0	0	0	0	1.0
Critical hours	1966.5	1832.8	2159.0	2087.1	2208.0	2209.0	1368.1	2154.6
Indicator value	2.7	2.9	1.8	1.7	0.8	0	0	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



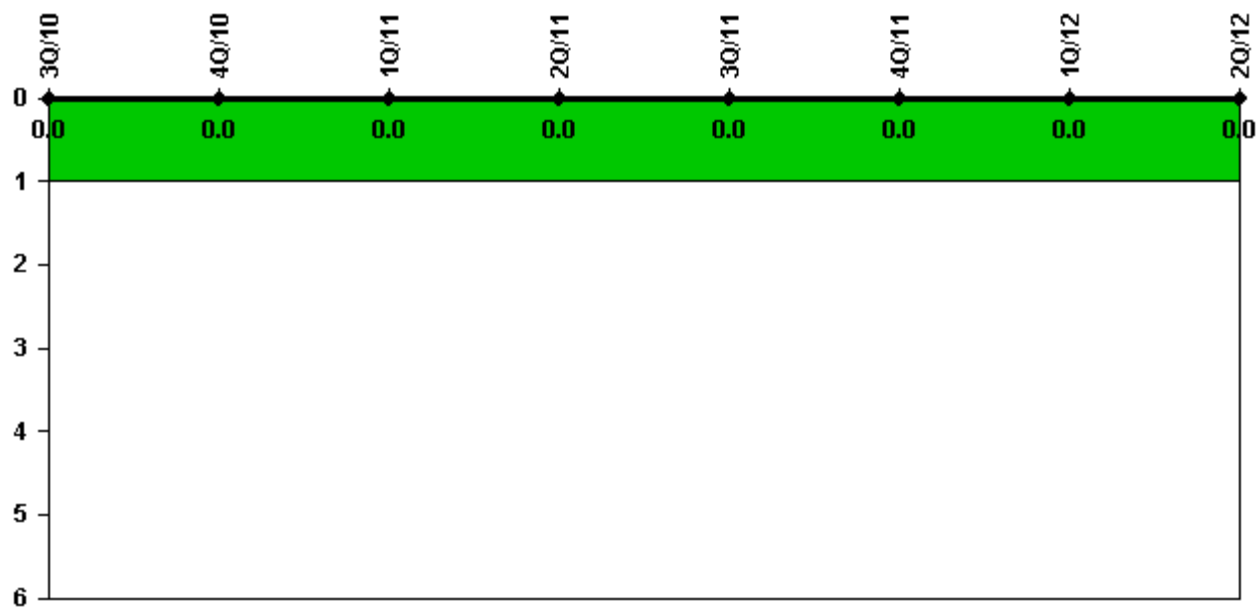
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned power changes	0	1.0	0	0	0	0	0	1.0
Critical hours	1966.5	1832.8	2159.0	2087.1	2208.0	2209.0	1368.1	2154.6
Indicator value	0.9	1.0	0.9	0.9	0.8	0	0	0.9

Licensee Comments: none

Unplanned Scrams with Complications



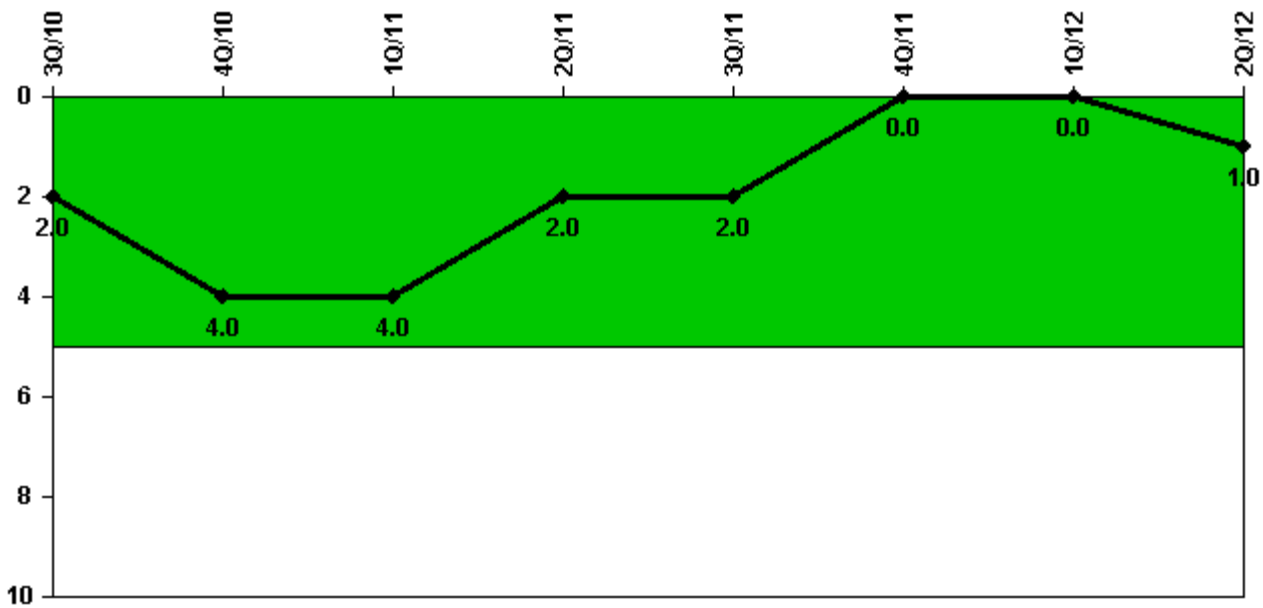
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	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

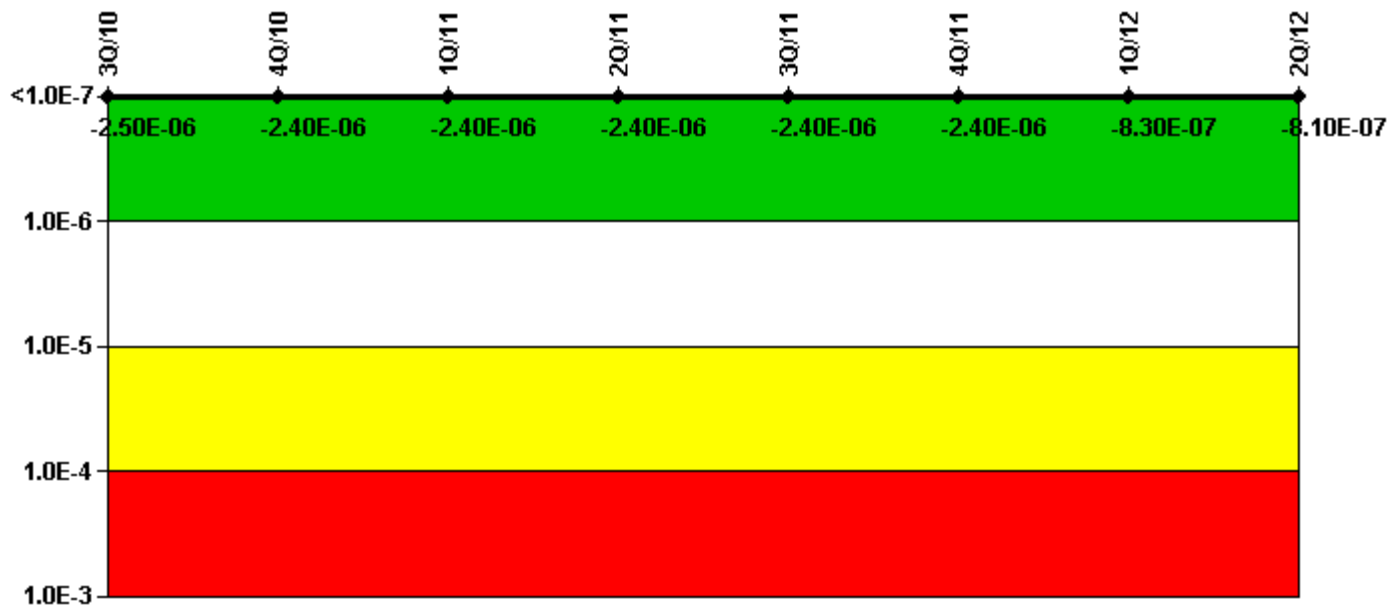
Notes

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

Licensee Comments:

2Q/12: LER-2012-004 reported a SSFF for one motor driven Auxiliary Feedwater Pump out of service during testing during the time liquid radiation monitor calibration was being performed which results in a Rad Bypass switch position for steam generator (SG) blowdown isolation valves being defeated for automatic isolation for degraded heat sink events. Condition can result in inadequate maintenance of SG inventory.

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (Δ CDF)	6.41E-07	7.42E-07	6.97E-07	6.06E-07	6.11E-07	5.48E-07	7.71E-08	1.19E-07
URI (Δ CDF)	-3.12E-06	-3.13E-06	-3.12E-06	-2.98E-06	-3.00E-06	-2.97E-06	-9.11E-07	-9.27E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-06	-2.40E-06	-2.40E-06	-2.40E-06	-2.40E-06	-2.40E-06	-8.30E-07	-8.10E-07

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

4Q/11: Risk Cap Invoked.

3Q/11: Risk Cap Invoked.

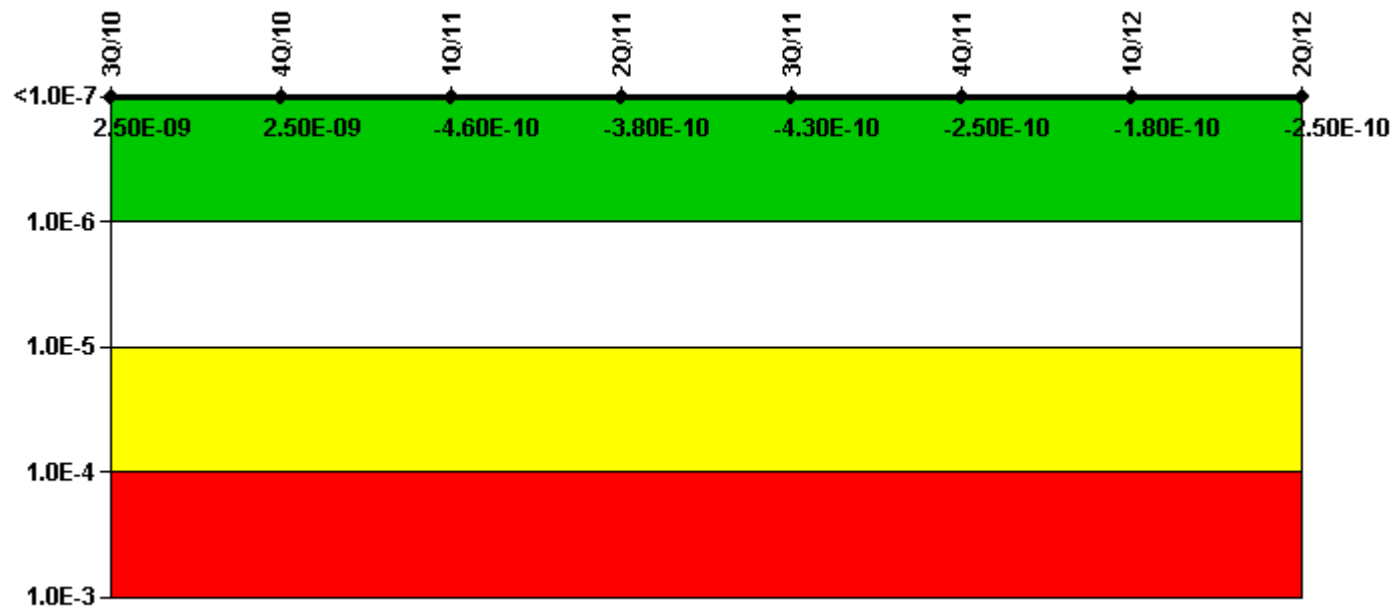
2Q/11: Risk Cap Invoked.

1Q/11: Risk Cap Invoked.

4Q/10: Risk Cap Invoked.

3Q/10: 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

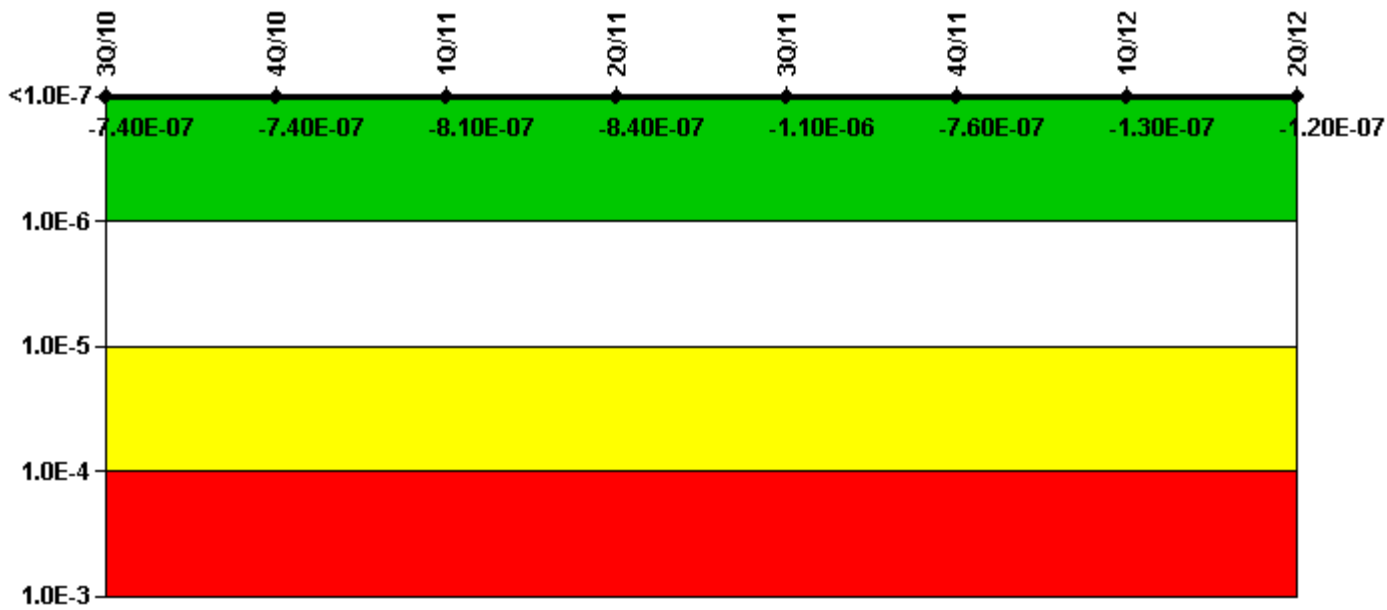
Mitigating Systems Performance Index, High Pressure Injection System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-2.03E-10	-2.03E-10	-2.03E-10	-1.44E-10	-2.03E-10	-7.35E-12	-2.90E-11	-2.90E-11
URI (ΔCDF)	2.72E-09	2.71E-09	-2.56E-10	-2.36E-10	-2.31E-10	-2.46E-10	-1.53E-10	-2.20E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.50E-09	2.50E-09	-4.60E-10	-3.80E-10	-4.30E-10	-2.50E-10	-1.80E-10	-2.50E-10

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Heat Removal System



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

Notes

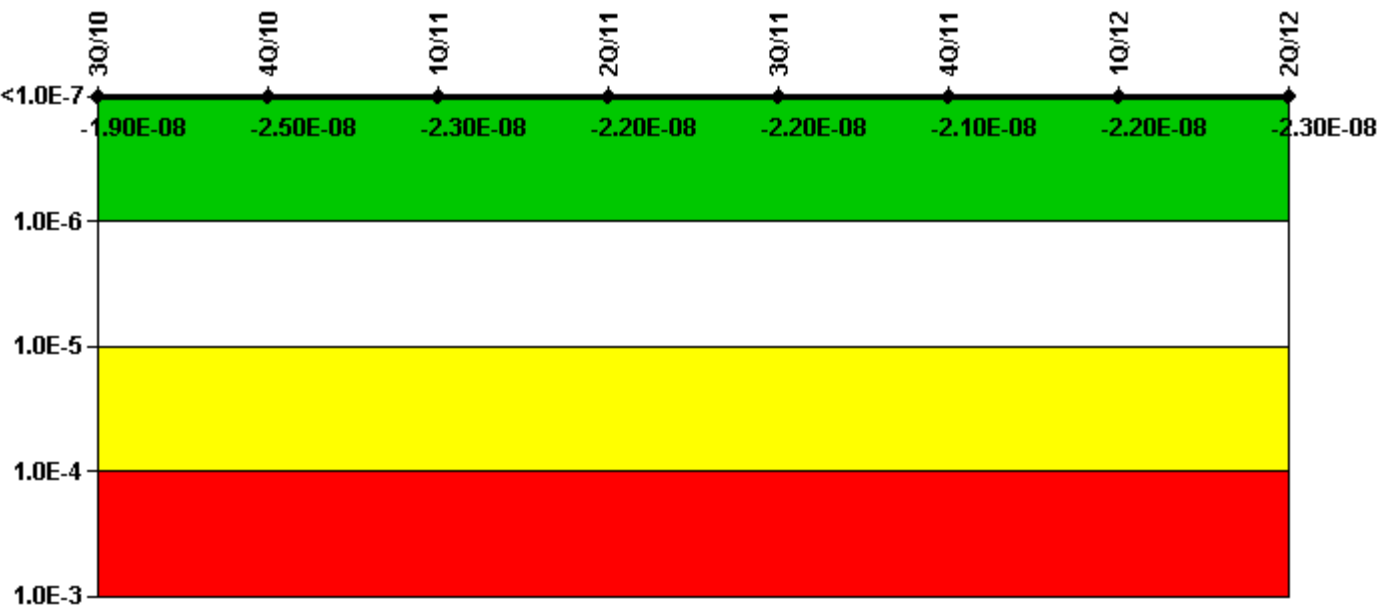
Mitigating Systems Performance Index, Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	2.68E-07	3.16E-07	2.08E-07	1.39E-07	-8.04E-08	-1.90E-07	-1.80E-08	-2.19E-08
URI (ΔCDF)	-1.01E-06	-1.05E-06	-1.02E-06	-9.79E-07	-9.76E-07	-5.68E-07	-1.15E-07	-9.75E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.40E-07	-7.40E-07	-8.10E-07	-8.40E-07	-1.10E-06	-7.60E-07	-1.30E-07	-1.20E-07

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: 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

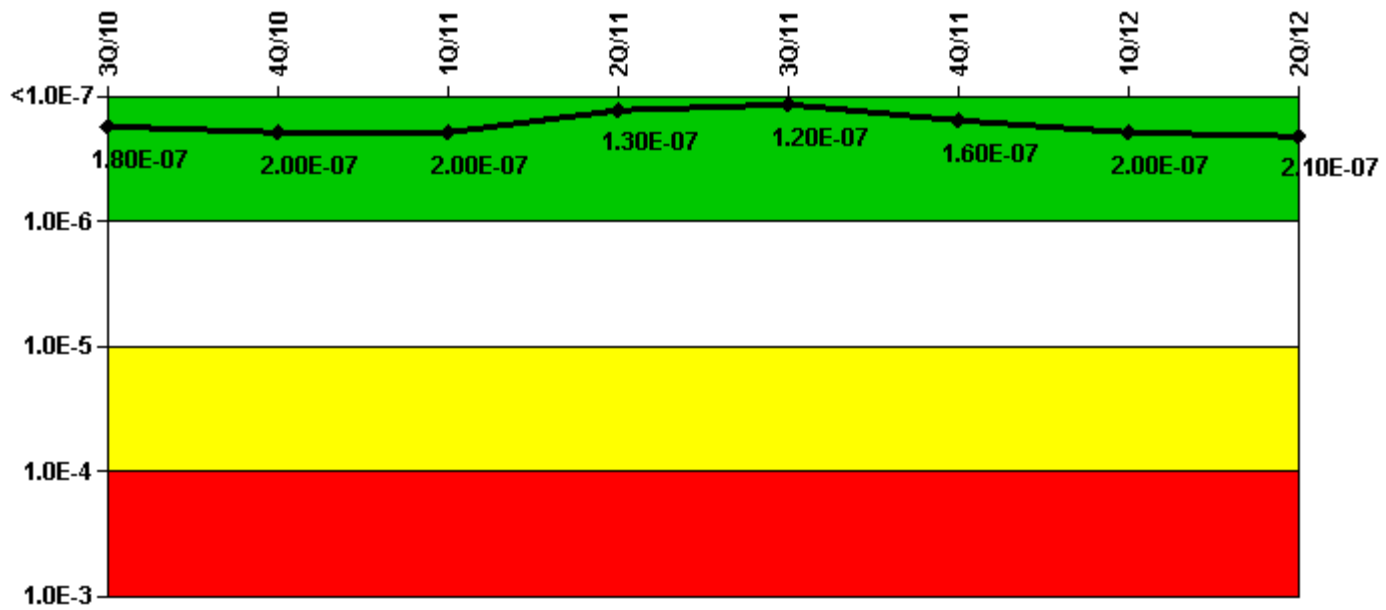
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-5.73E-09	-1.09E-08	-1.09E-08	-1.09E-08	-1.10E-08	-1.09E-08	-8.82E-09	-8.80E-09
URI (ΔCDF)	-1.31E-08	-1.37E-08	-1.24E-08	-1.11E-08	-1.09E-08	-1.05E-08	-1.36E-08	-1.37E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-08	-2.50E-08	-2.30E-08	-2.20E-08	-2.20E-08	-2.10E-08	-2.20E-08	-2.30E-08

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

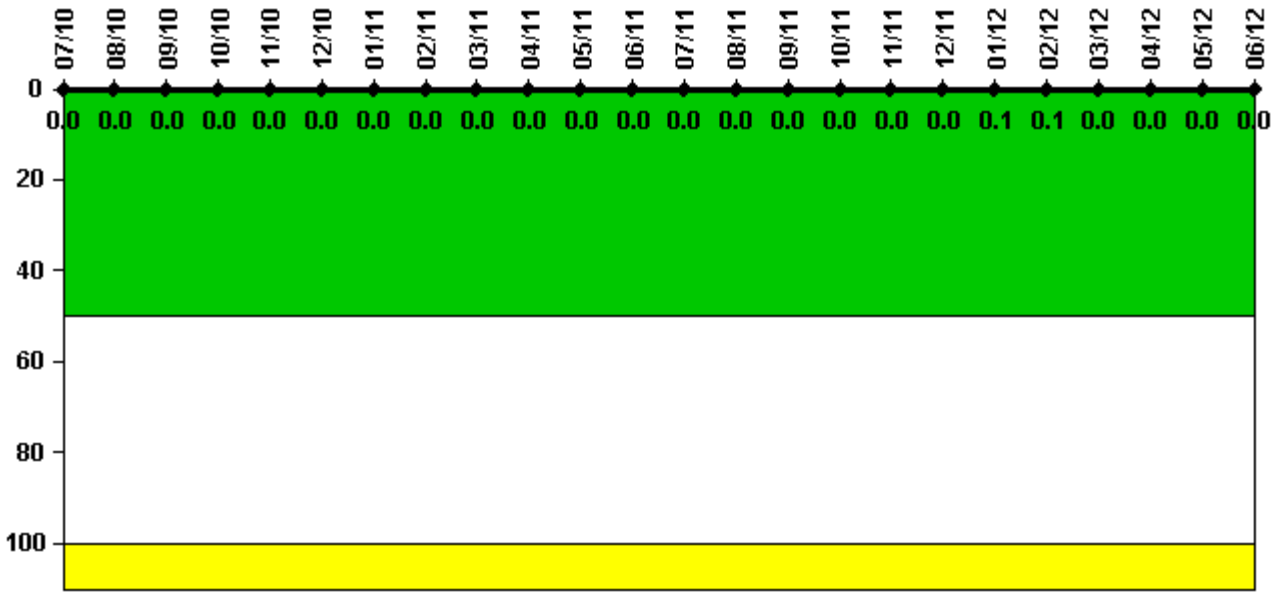
Mitigating Systems Performance Index, Cooling Water Systems	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (Δ CDF)	8.53E-08	1.01E-07	1.27E-07	7.99E-08	7.49E-08	7.59E-08	2.06E-08	2.10E-08
URI (Δ CDF)	9.91E-08	1.03E-07	7.15E-08	4.61E-08	4.59E-08	8.02E-08	1.76E-07	1.90E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.80E-07	2.00E-07	2.00E-07	1.30E-07	1.20E-07	1.60E-07	2.00E-07	2.10E-07

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

Reactor Coolant System Activity



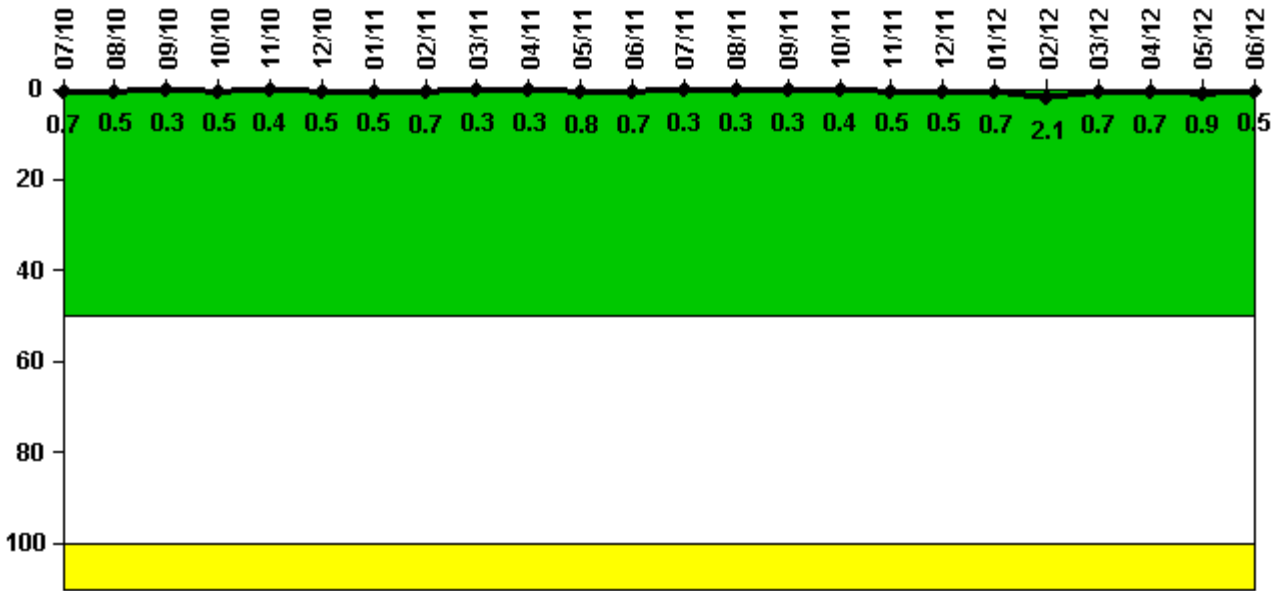
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.000293	0.000311	0.000304	0.000333	0.000325	0.000350	0.000362	0.000333	0.000389	0.000370	0.000411	0.000398
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum activity	0.000446	0.000450	0.000474	0.000472	0.000467	0.000476	0.000500	0.000509	0.000459	0.000198	0.000189	0.000187
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0.1	0.1	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



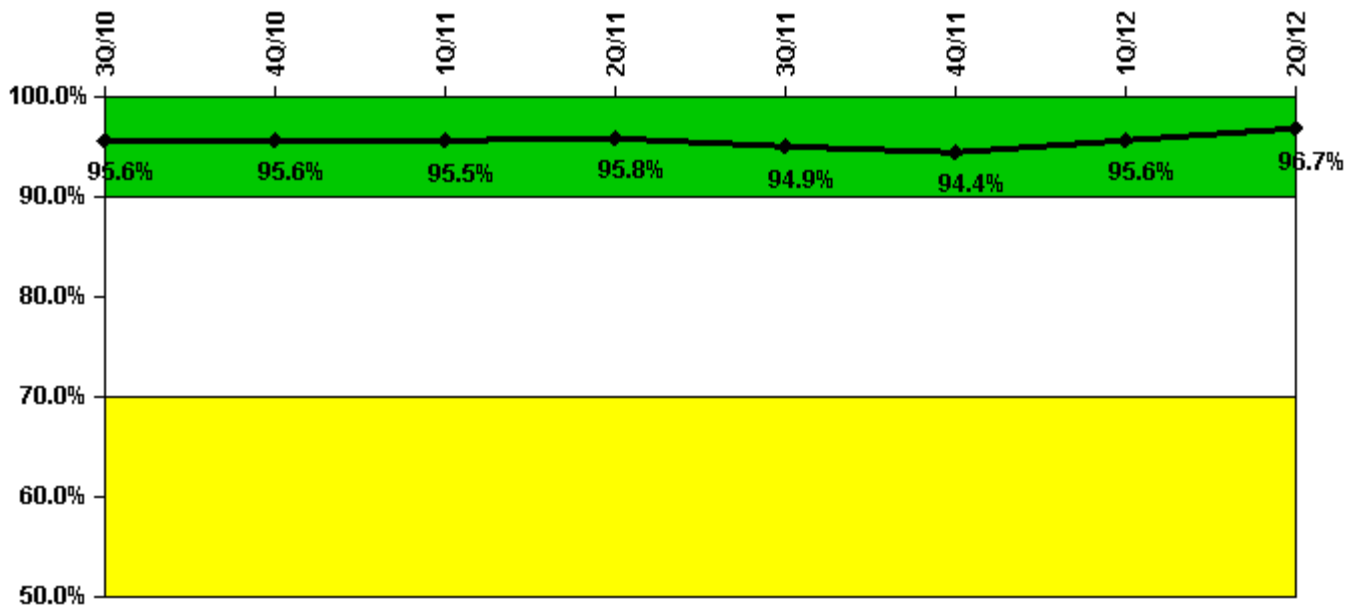
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.070	0.050	0.030	0.050	0.040	0.050	0.050	0.070	0.030	0.030	0.080	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.5	0.3	0.5	0.4	0.5	0.5	0.7	0.3	0.3	0.8	0.7
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	0.030	0.030	0.030	0.040	0.050	0.050	0.070	0.210	0.070	0.070	0.090	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.3	0.3	0.3	0.4	0.5	0.5	0.7	2.1	0.7	0.7	0.9	0.5

Licensee Comments: none

Drill/Exercise Performance



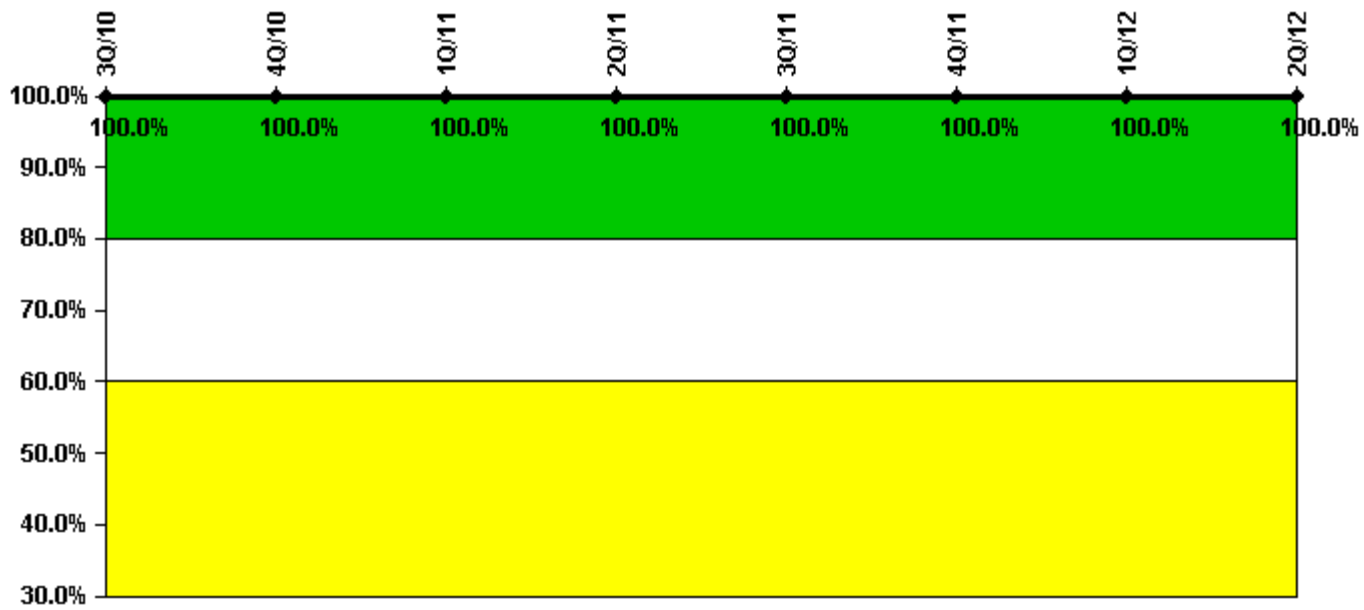
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful opportunities	97.0	55.0	19.0	66.0	143.0	14.0	131.0	289.0
Total opportunities	108.0	56.0	21.0	66.0	151.0	16.0	131.0	293.0
Indicator value	95.6%	95.6%	95.5%	95.8%	94.9%	94.4%	95.6%	96.7%

Licensee Comments: none

ERO Drill Participation



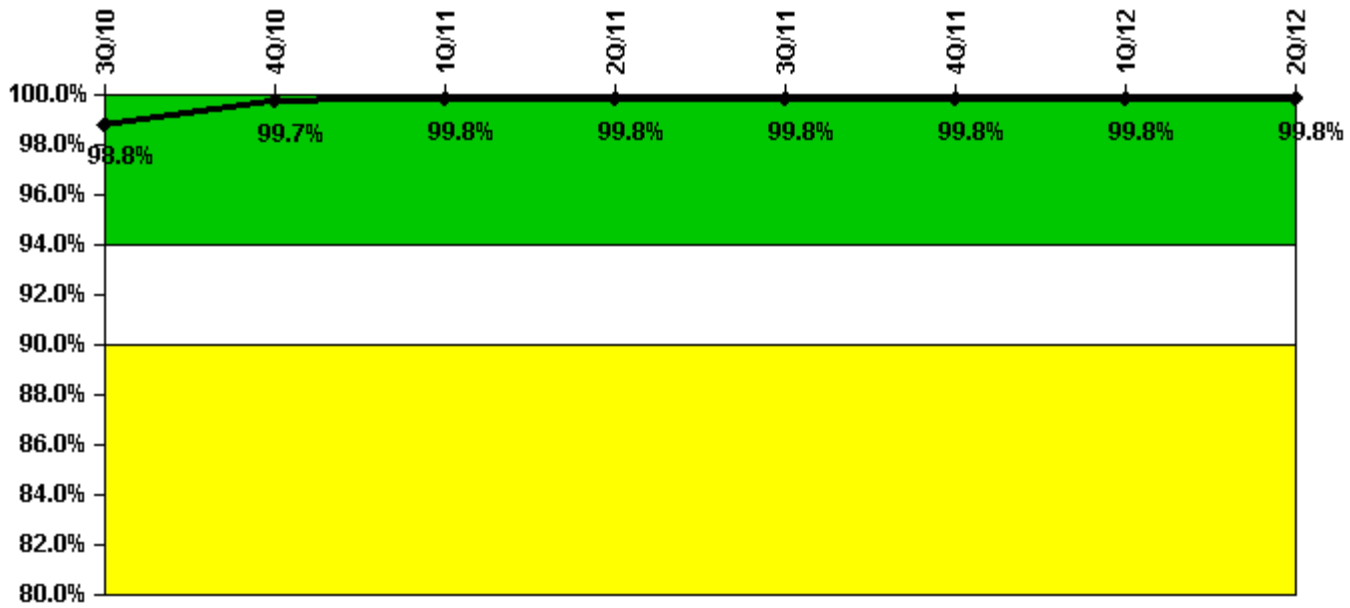
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Participating Key personnel	107.0	104.0	102.0	102.0	105.0	104.0	106.0	105.0
Total Key personnel	107.0	104.0	102.0	102.0	105.0	104.0	106.0	105.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



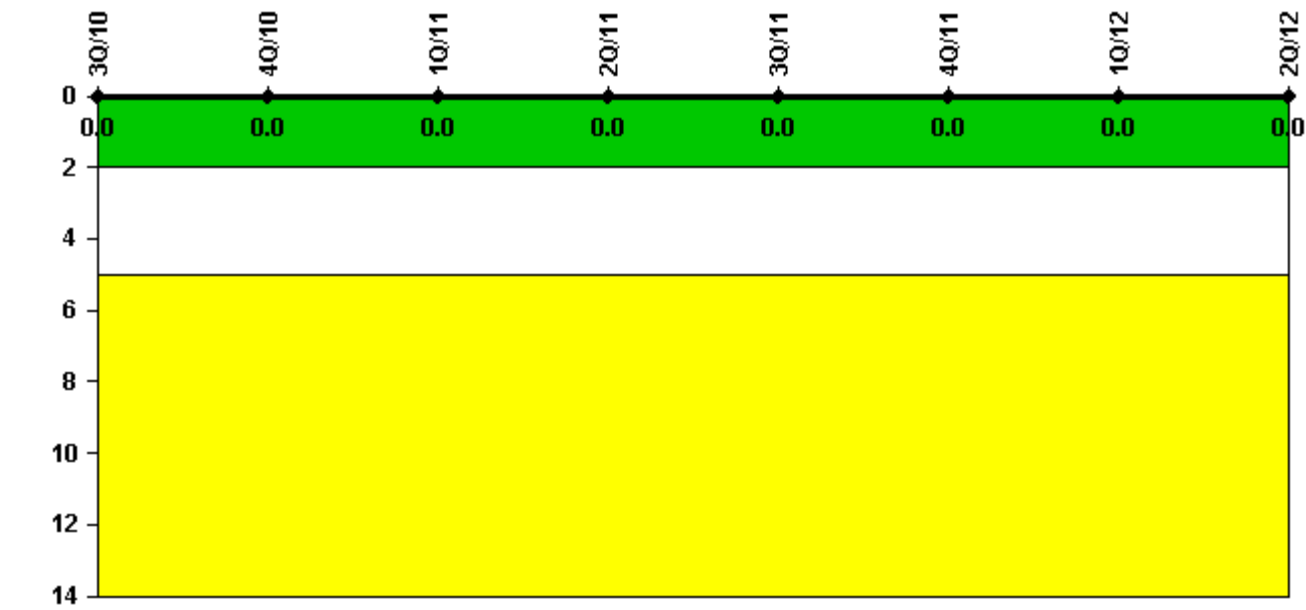
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful siren-tests	1065	956	1012	1176	1201	993	956	787
Total sirens-tests	1067	957	1013	1179	1204	996	957	789
Indicator value	98.8%	99.7%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



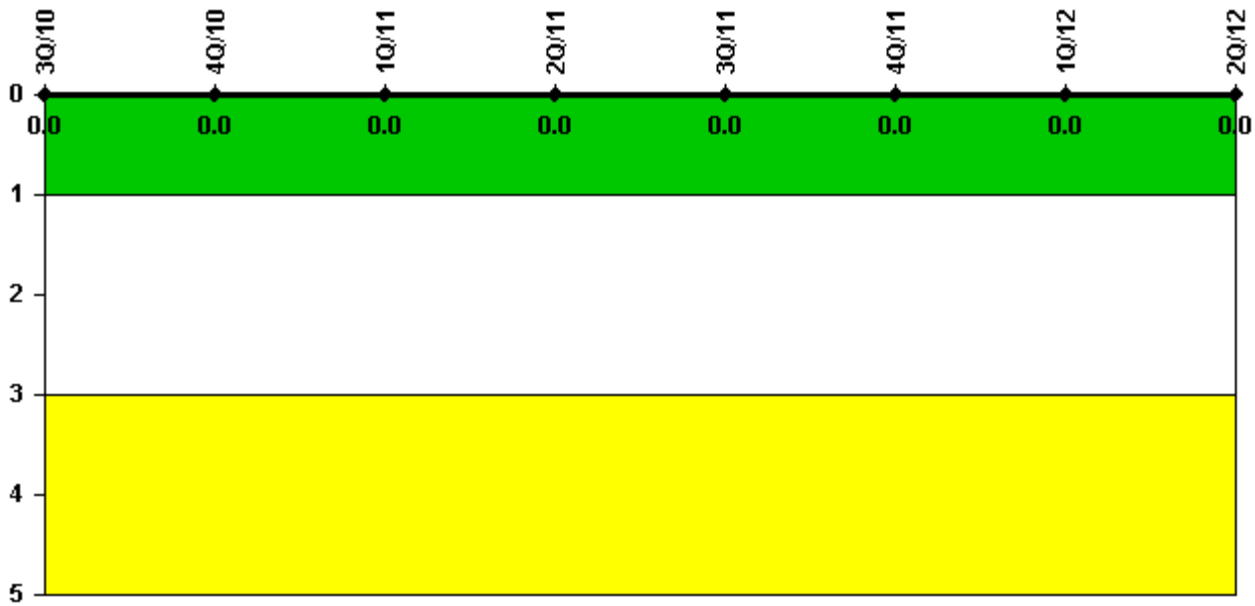
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

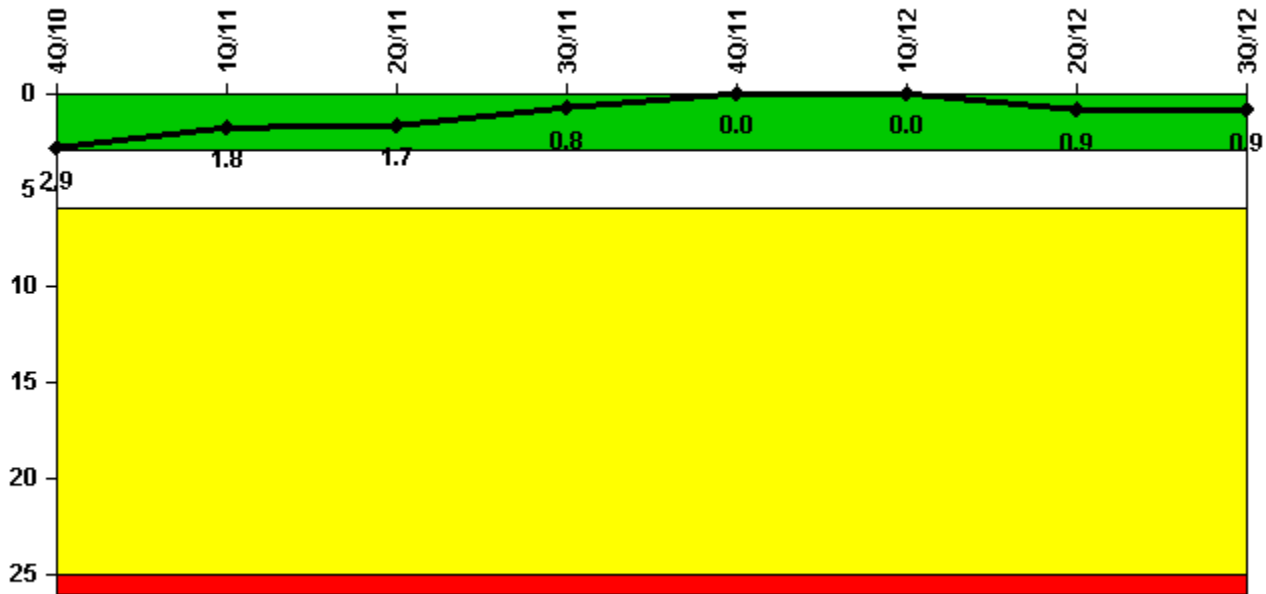


Indian Point 2

3Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



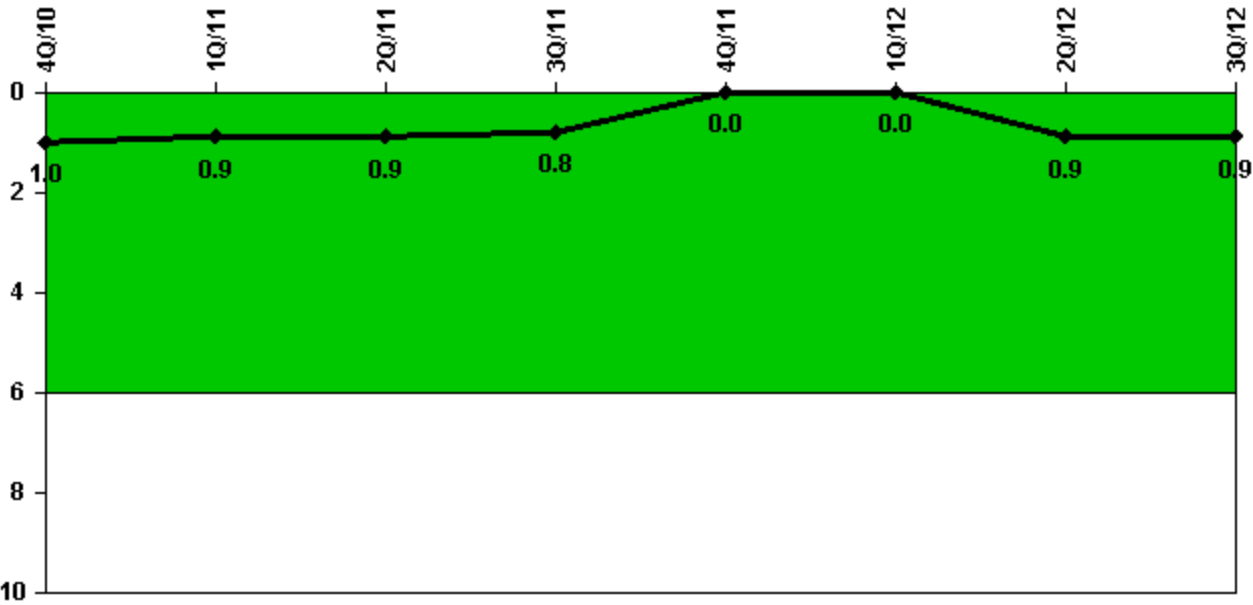
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned scrams	1.0	0	0	0	0	0	1.0	0
Critical hours	1832.8	2159.0	2087.1	2208.0	2209.0	1368.1	2154.6	2208.0
Indicator value	2.9	1.8	1.7	0.8	0	0	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



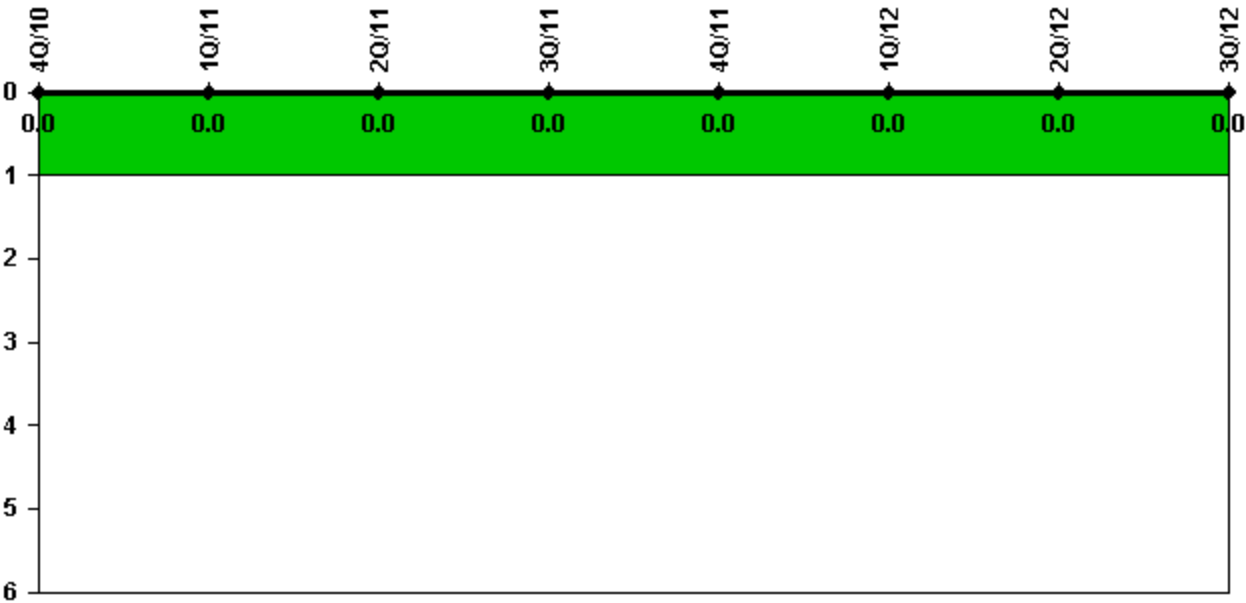
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned power changes	1.0	0	0	0	0	0	1.0	0
Critical hours	1832.8	2159.0	2087.1	2208.0	2209.0	1368.1	2154.6	2208.0
Indicator value	1.0	0.9	0.9	0.8	0	0	0.9	0.9

Licensee Comments: none

Unplanned Scrams with Complications



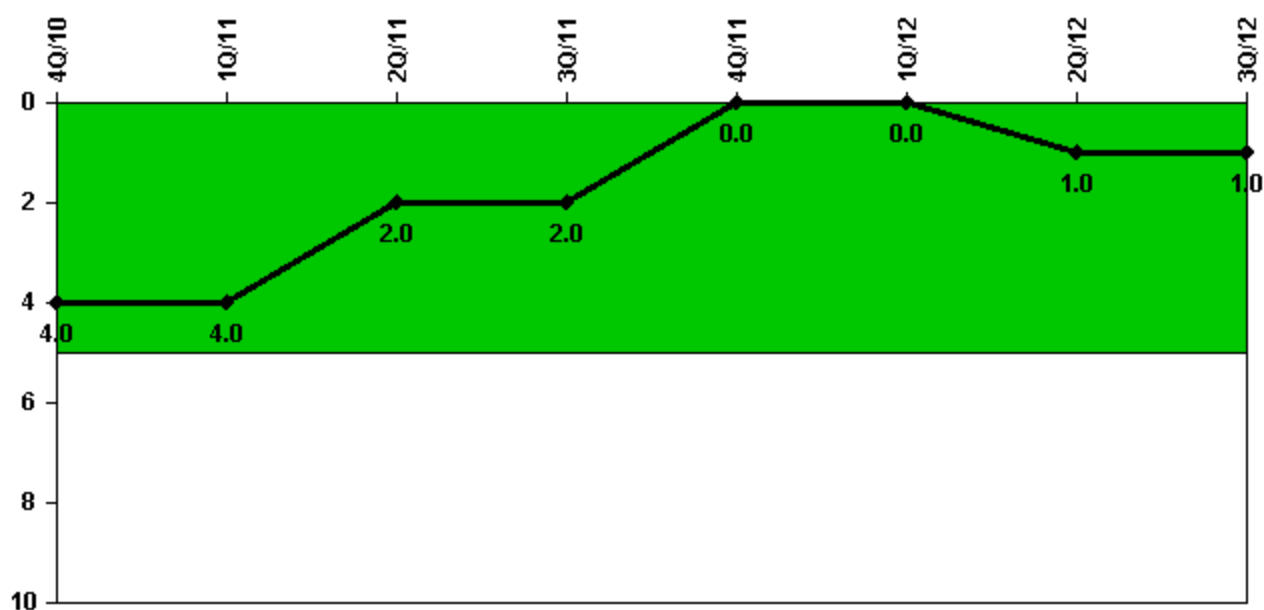
Thresholds: White > 1.0

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	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

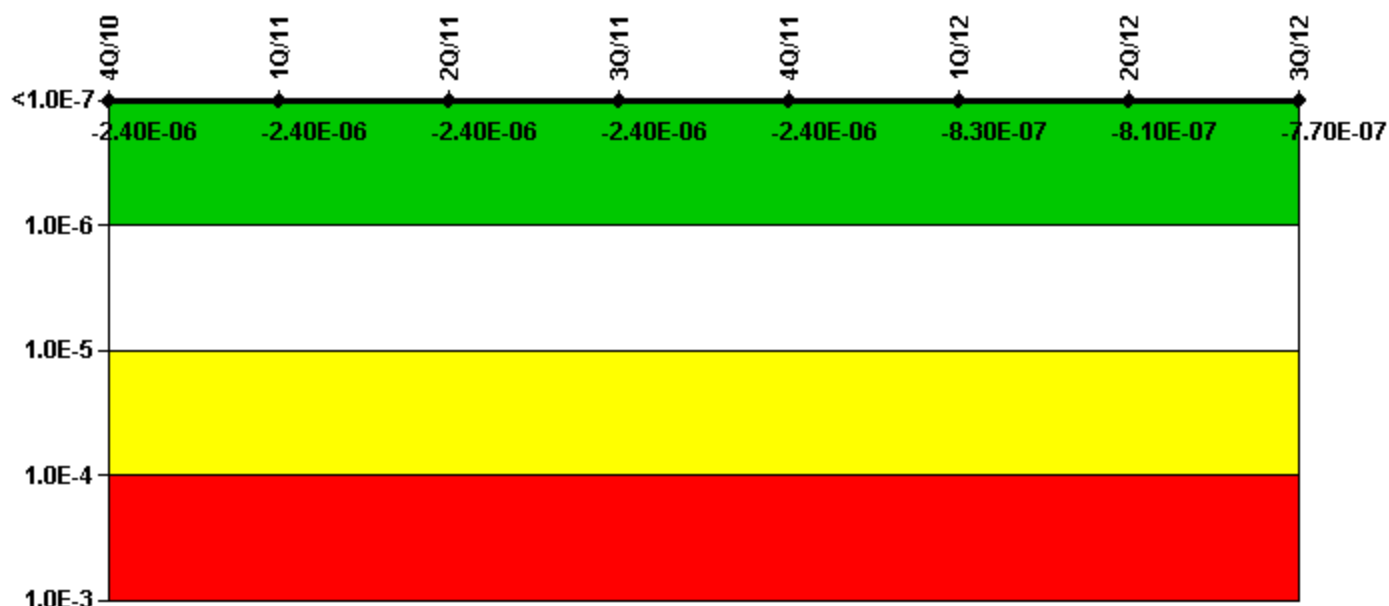
Notes

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

Licensee Comments:

2Q/12: LER-2012-004 reported a SSFF for one motor driven Auxiliary Feedwater Pump out of service during testing during the time liquid radiation monitor calibration was being performed which results in a Rad Bypass switch position for steam generator (SG) blowdown isolation valves being defeated for automatic isolation for degraded heat sink events. Condition can result in inadequate maintenance of SG inventory.

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)	7.42E-07	6.97E-07	6.06E-07	6.11E-07	5.48E-07	7.71E-08	1.19E-07	1.28E-07
URI (Δ CDF)	-3.13E-06	-3.12E-06	-2.98E-06	-3.00E-06	-2.97E-06	-9.11E-07	-9.27E-07	-8.94E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-06	-2.40E-06	-2.40E-06	-2.40E-06	-2.40E-06	-8.30E-07	-8.10E-07	-7.70E-07

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

4Q/11: Risk Cap Invoked.

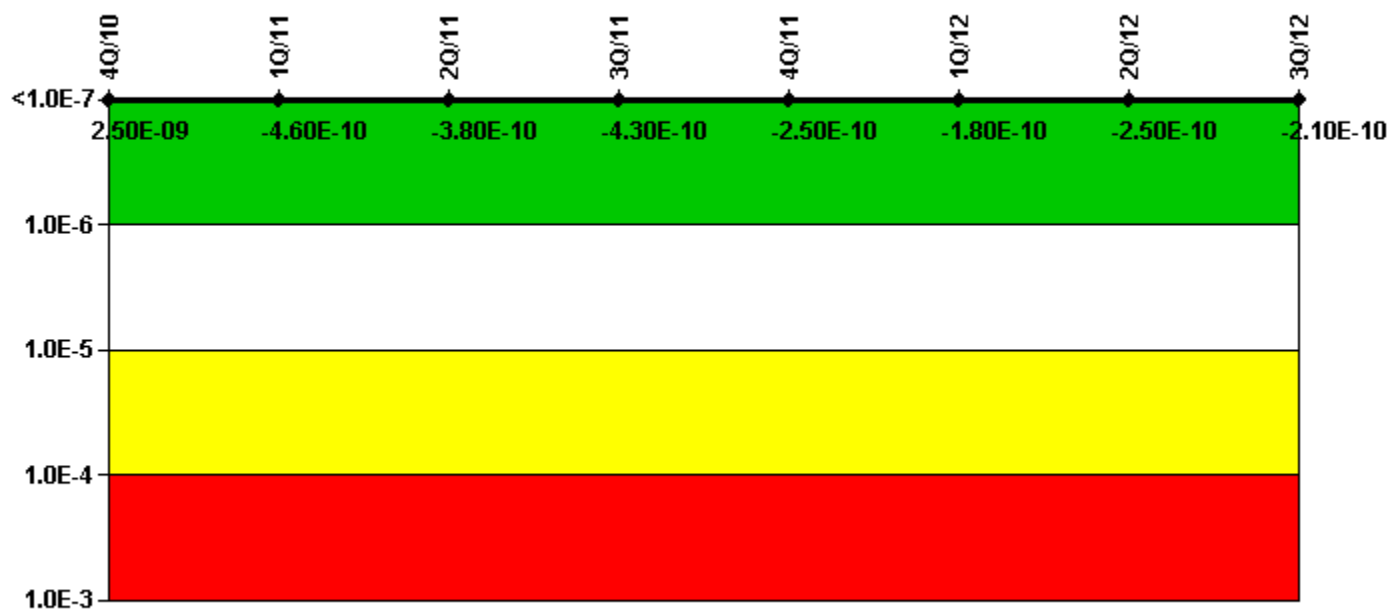
3Q/11: Risk Cap Invoked.

2Q/11: Risk Cap Invoked.

1Q/11: Risk Cap Invoked.

4Q/10: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

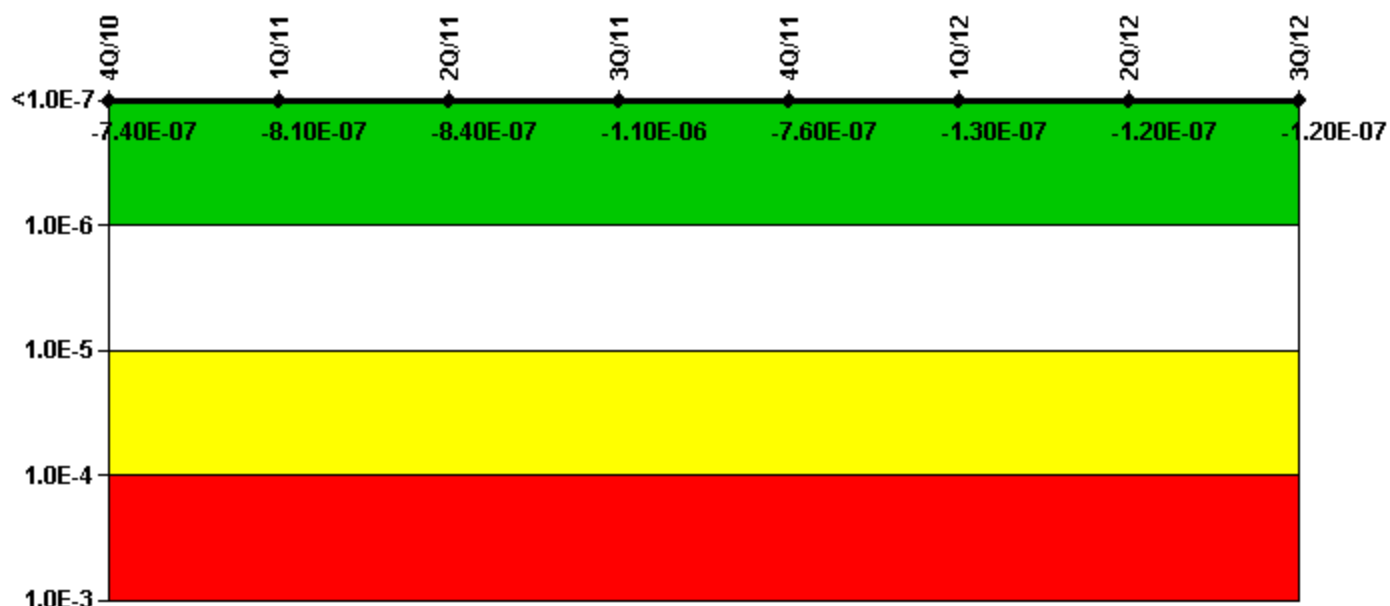
Mitigating Systems Performance Index, High Pressure Injection System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	-2.03E-10	-2.03E-10	-1.44E-10	-2.03E-10	-7.35E-12	-2.90E-11	-2.90E-11	2.23E-11
URI (Δ CDF)	2.71E-09	-2.56E-10	-2.36E-10	-2.31E-10	-2.46E-10	-1.53E-10	-2.20E-10	-2.31E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.50E-09	-4.60E-10	-3.80E-10	-4.30E-10	-2.50E-10	-1.80E-10	-2.50E-10	-2.10E-10

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Heat Removal System



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

Notes

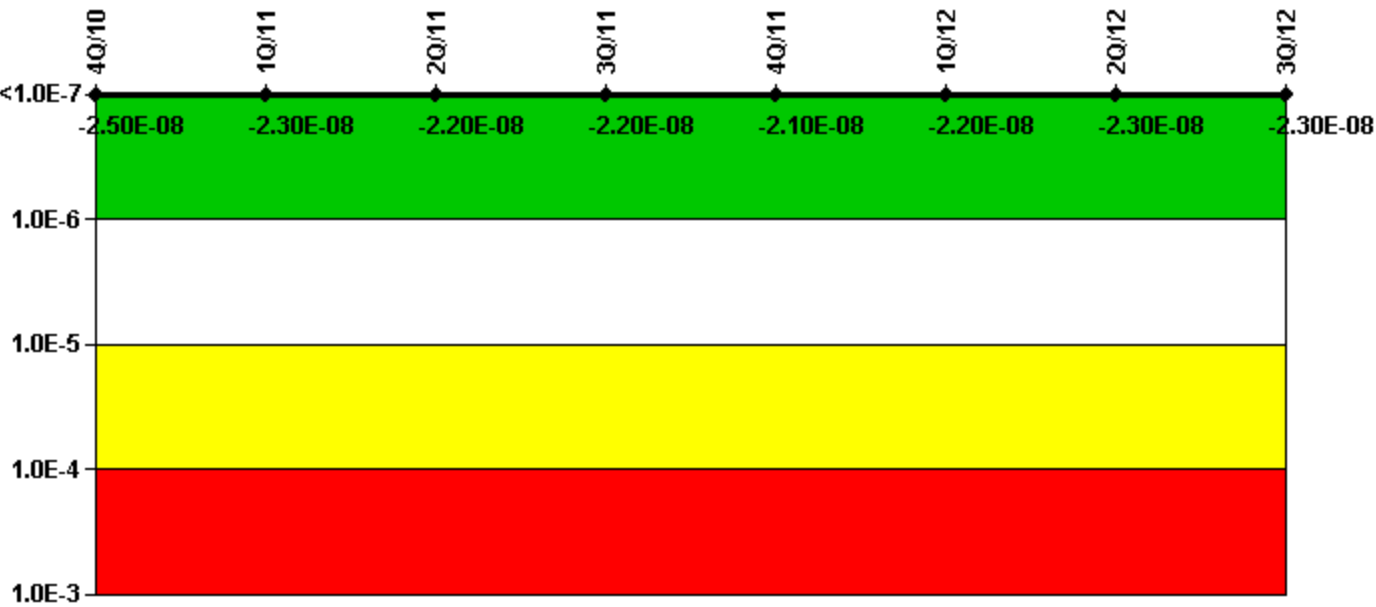
Mitigating Systems Performance Index, Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	3.16E-07	2.08E-07	1.39E-07	-8.04E-08	-1.90E-07	-1.80E-08	-2.19E-08	-2.10E-08
URI (Δ CDF)	-1.05E-06	-1.02E-06	-9.79E-07	-9.76E-07	-5.68E-07	-1.15E-07	-9.75E-08	-9.64E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.40E-07	-8.10E-07	-8.40E-07	-1.10E-06	-7.60E-07	-1.30E-07	-1.20E-07	-1.20E-07

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: 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

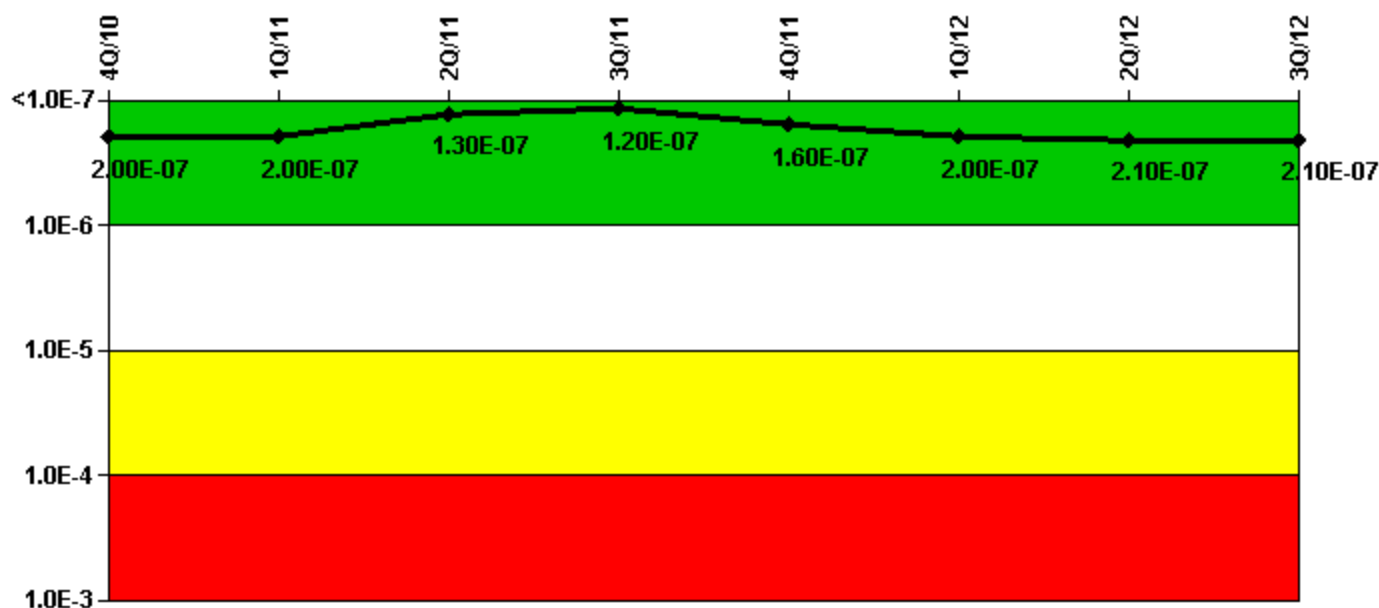
Mitigating Systems Performance Index, Residual Heat Removal System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	-1.09E-08	-1.09E-08	-1.09E-08	-1.10E-08	-1.09E-08	-8.82E-09	-8.80E-09	-8.71E-09
URI (ΔCDF)	-1.37E-08	-1.24E-08	-1.11E-08	-1.09E-08	-1.05E-08	-1.36E-08	-1.37E-08	-1.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-08	-2.30E-08	-2.20E-08	-2.20E-08	-2.10E-08	-2.20E-08	-2.30E-08	-2.30E-08

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

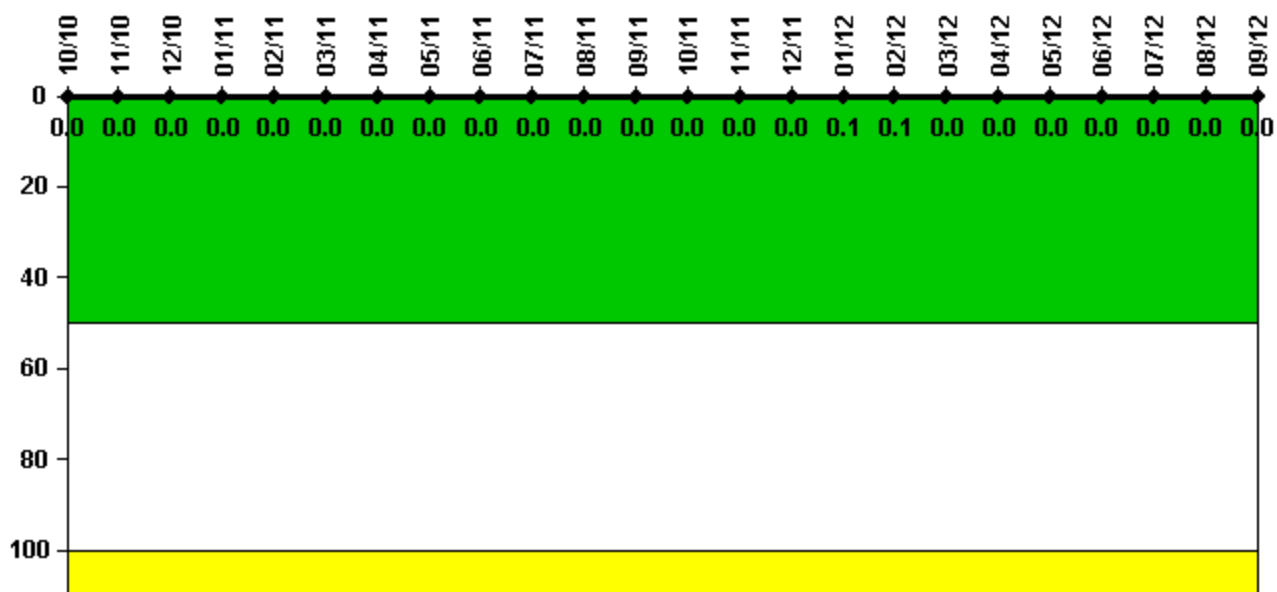
Mitigating Systems Performance Index, Cooling Water Systems	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (Δ CDF)	1.01E-07	1.27E-07	7.99E-08	7.49E-08	7.59E-08	2.06E-08	2.10E-08	2.04E-08
URI (Δ CDF)	1.03E-07	7.15E-08	4.61E-08	4.59E-08	8.02E-08	1.76E-07	1.90E-07	1.88E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.00E-07	2.00E-07	1.30E-07	1.20E-07	1.60E-07	2.00E-07	2.10E-07	2.10E-07

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

Reactor Coolant System Activity



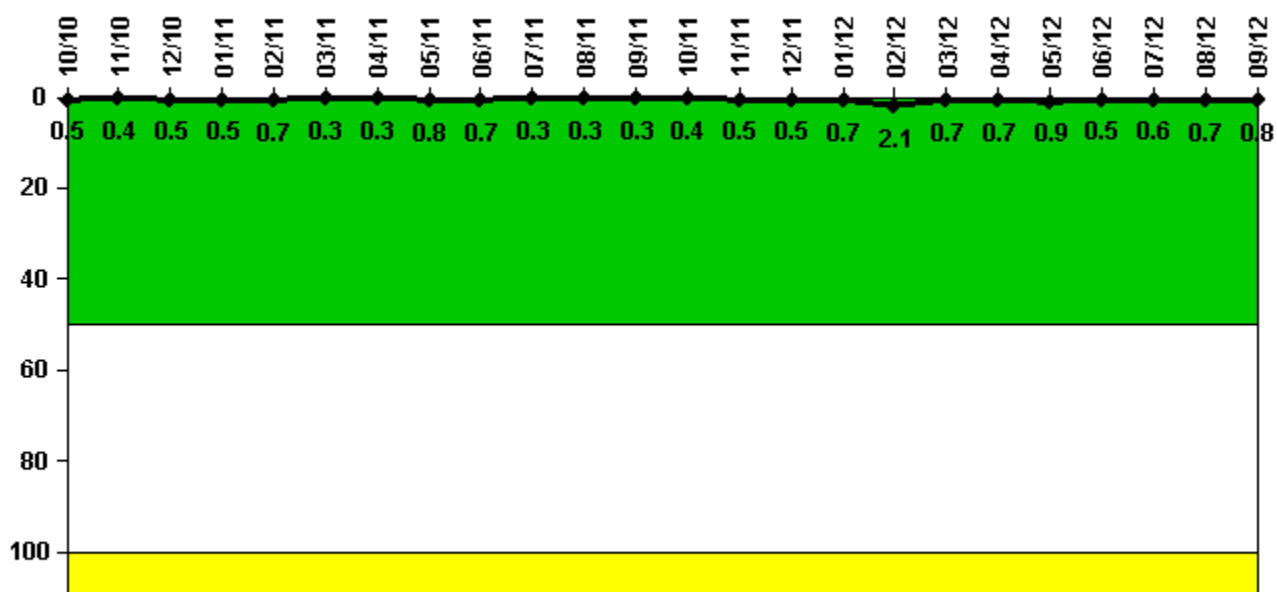
Thresholds: White > 50.0 Yellow > 100.0

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	0.000333	0.000325	0.000350	0.000362	0.000333	0.000389	0.000370	0.000411	0.000398	0.000446	0.000450	0.000474
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum activity	0.000472	0.000467	0.000476	0.000500	0.000509	0.000459	0.000198	0.000189	0.000187	0.000196	0.000215	0.000217
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0.1	0.1	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



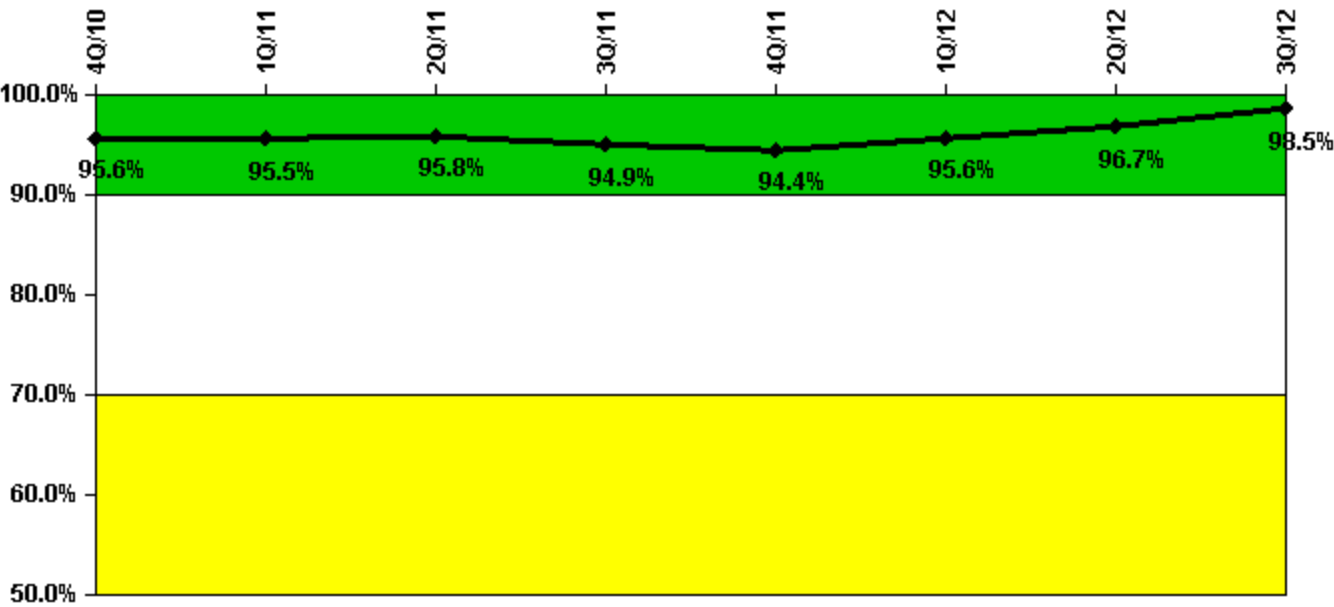
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.050	0.040	0.050	0.050	0.070	0.030	0.030	0.080	0.070	0.030	0.030	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	0.5	0.4	0.5	0.5	0.7	0.3	0.3	0.8	0.7	0.3	0.3	0.3
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	0.040	0.050	0.050	0.070	0.210	0.070	0.070	0.090	0.050	0.060	0.070	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.4	0.5	0.5	0.7	2.1	0.7	0.7	0.9	0.5	0.6	0.7	0.8

Licensee Comments: none

Drill/Exercise Performance



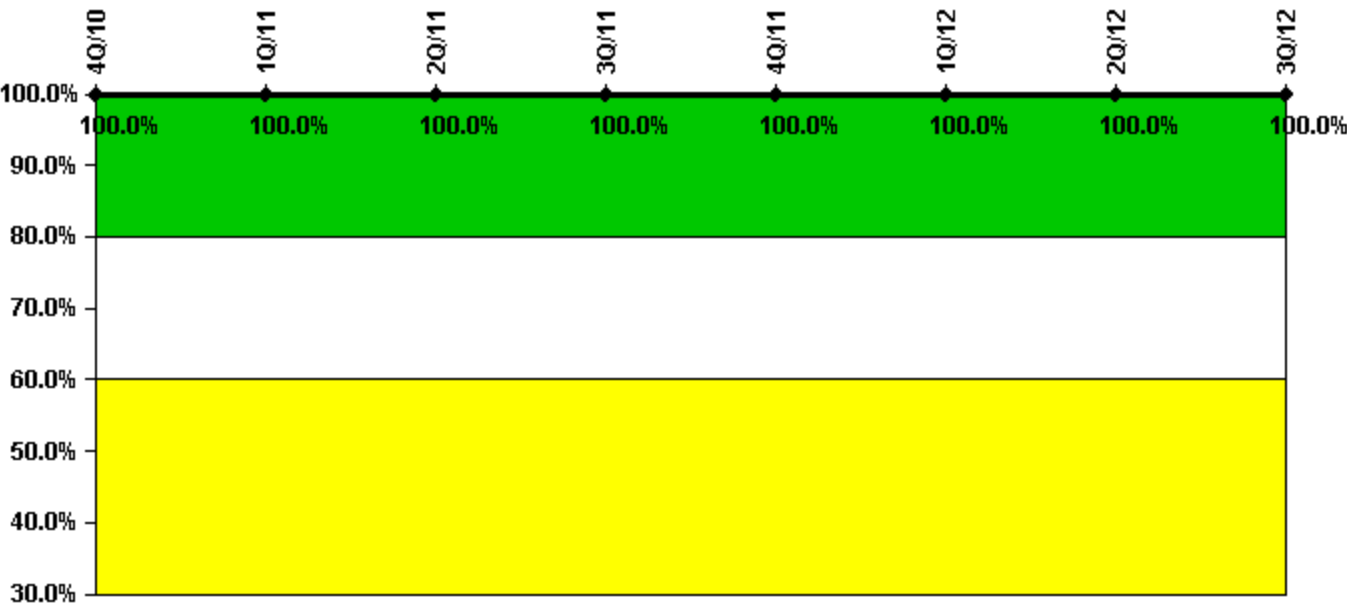
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful opportunities	55.0	19.0	66.0	143.0	14.0	131.0	289.0	374.0
Total opportunities	56.0	21.0	66.0	151.0	16.0	131.0	293.0	374.0
Indicator value	95.6%	95.5%	95.8%	94.9%	94.4%	95.6%	96.7%	98.5%

Licensee Comments: none

ERO Drill Participation



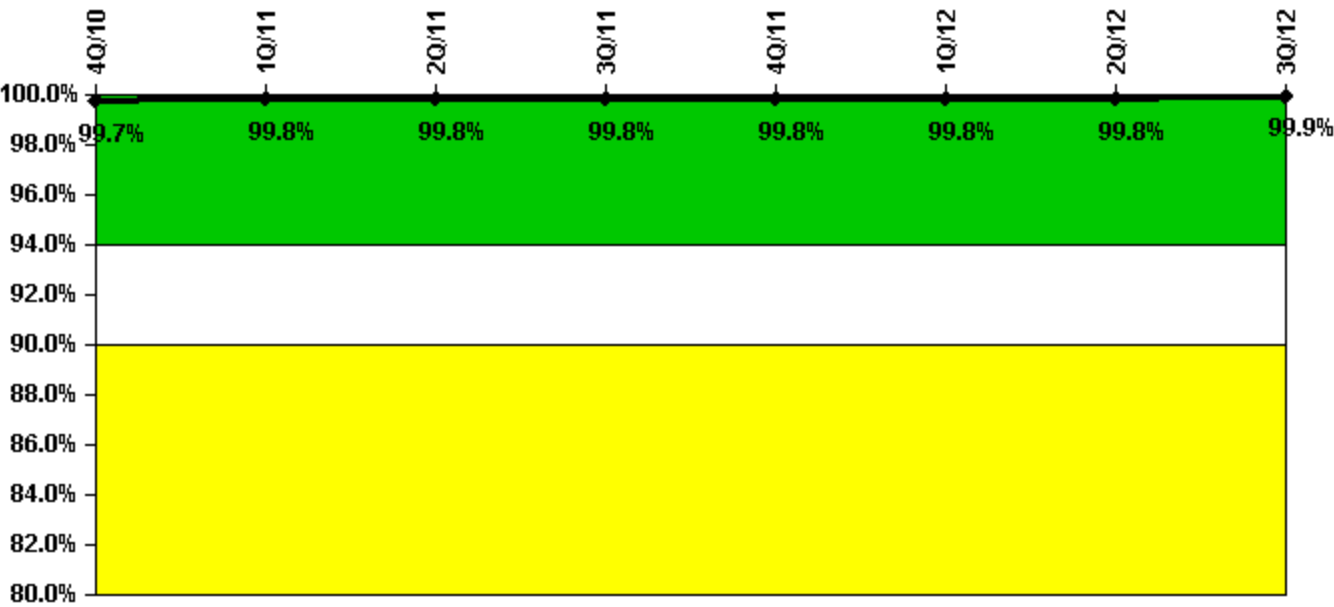
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Participating Key personnel	104.0	102.0	102.0	105.0	104.0	106.0	105.0	106.0
Total Key personnel	104.0	102.0	102.0	105.0	104.0	106.0	105.0	106.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



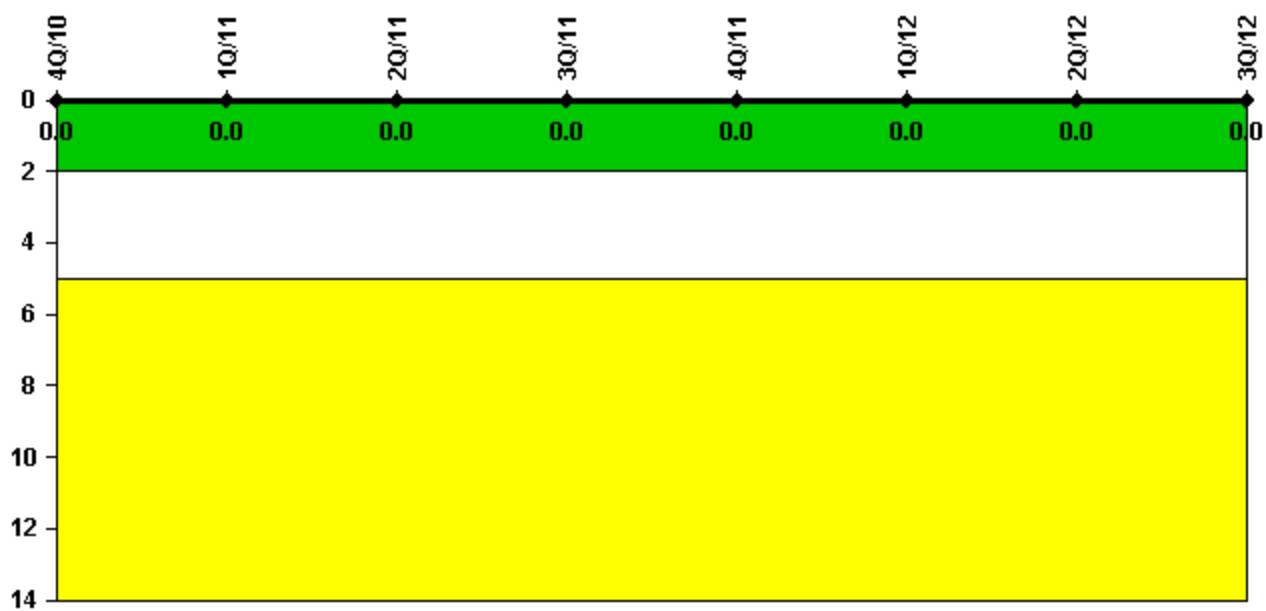
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful siren-tests	956	1012	1176	1201	993	956	787	1415
Total sirens-tests	957	1013	1179	1204	996	957	789	1415
Indicator value	99.7%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



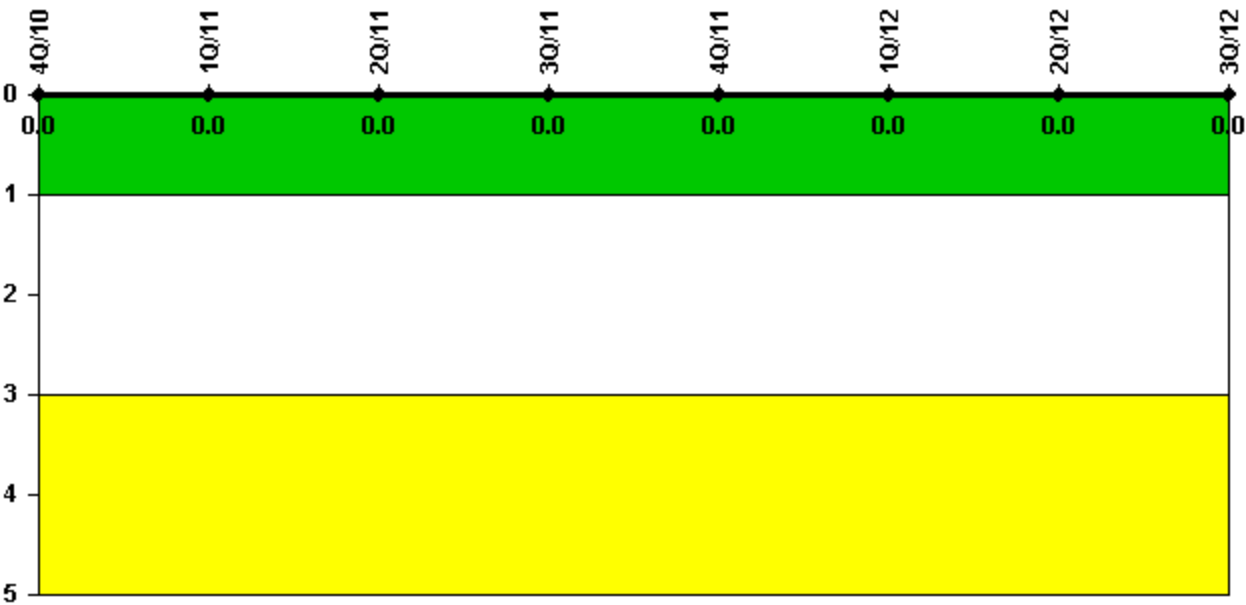
Thresholds: White > 2.0 Yellow > 5.0

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

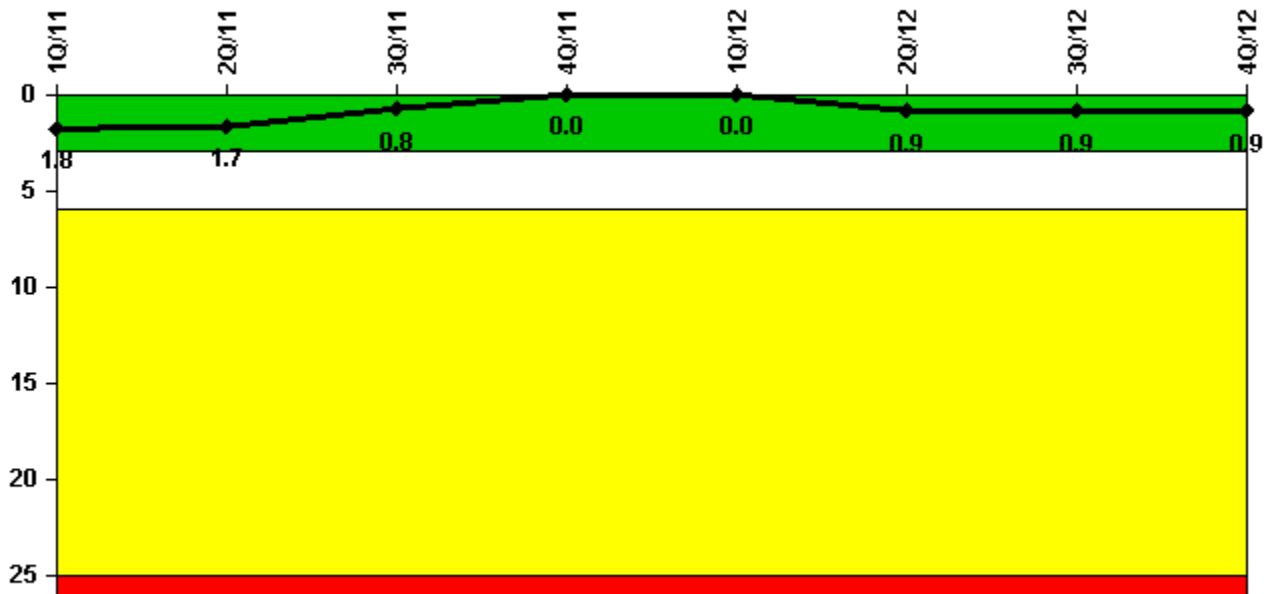
Last Modified: October 24, 2012

Indian Point 2

4Q/2012 Performance Indicators

Licensee's General Comments: PI change was to IDS comp hours in which 11.33 additional comp hours were determined to be applicable. Comp hours are for October 2011. Previously reported comp hours for IDS in October 2011 was 101.37. Revised comp hours for IDS in October 2011 is 112.7. Change does not impact the PI threshold and the PI remains Green.

Unplanned Scrams per 7000 Critical Hrs



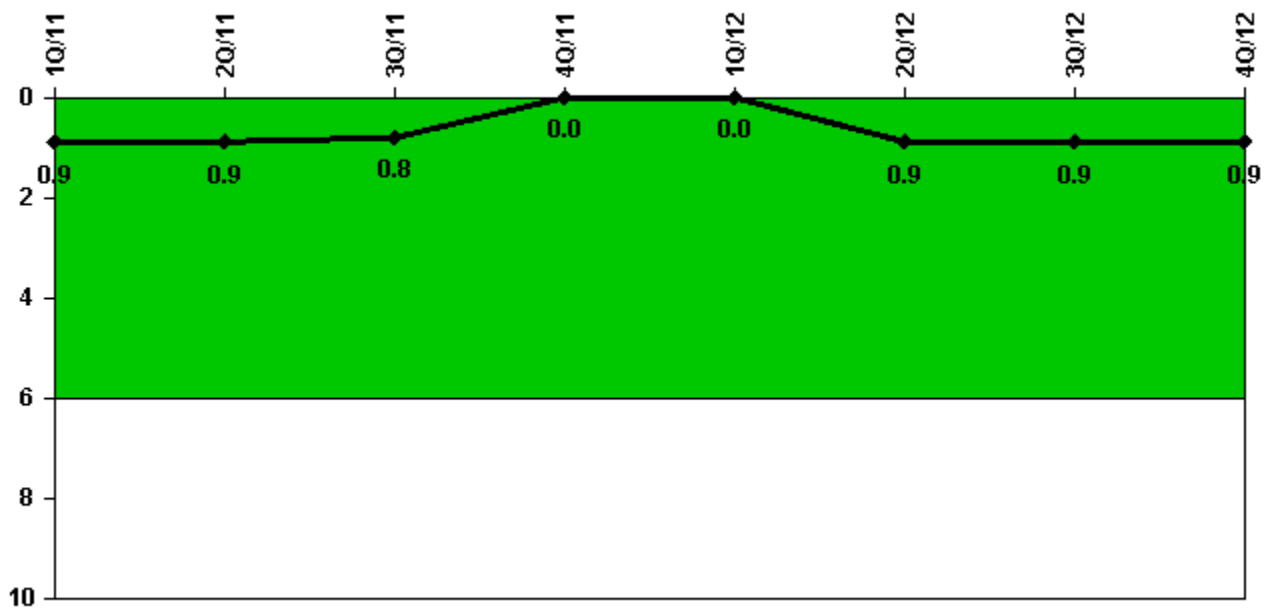
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2159.0	2087.1	2208.0	2209.0	1368.1	2154.6	2208.0	2209.0
Indicator value	1.8	1.7	0.8	0	0	0.9	0.9	0.9

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



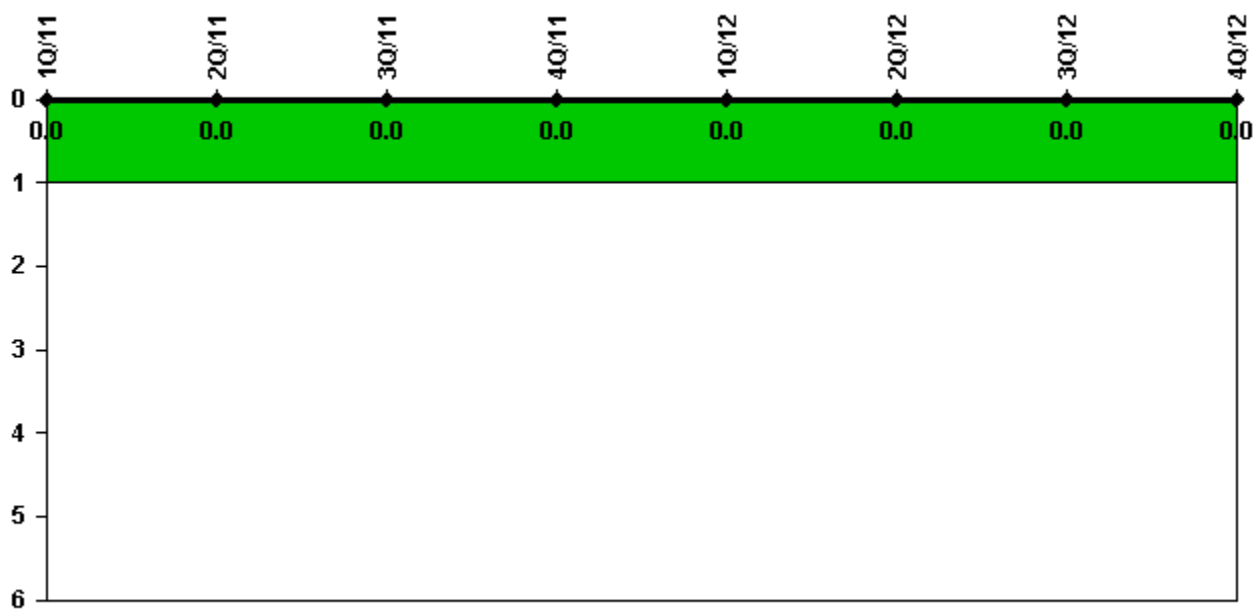
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2159.0	2087.1	2208.0	2209.0	1368.1	2154.6	2208.0	2209.0
Indicator value	0.9	0.9	0.8	0	0	0.9	0.9	0.9

Licensee Comments: none

Unplanned Scrams with Complications



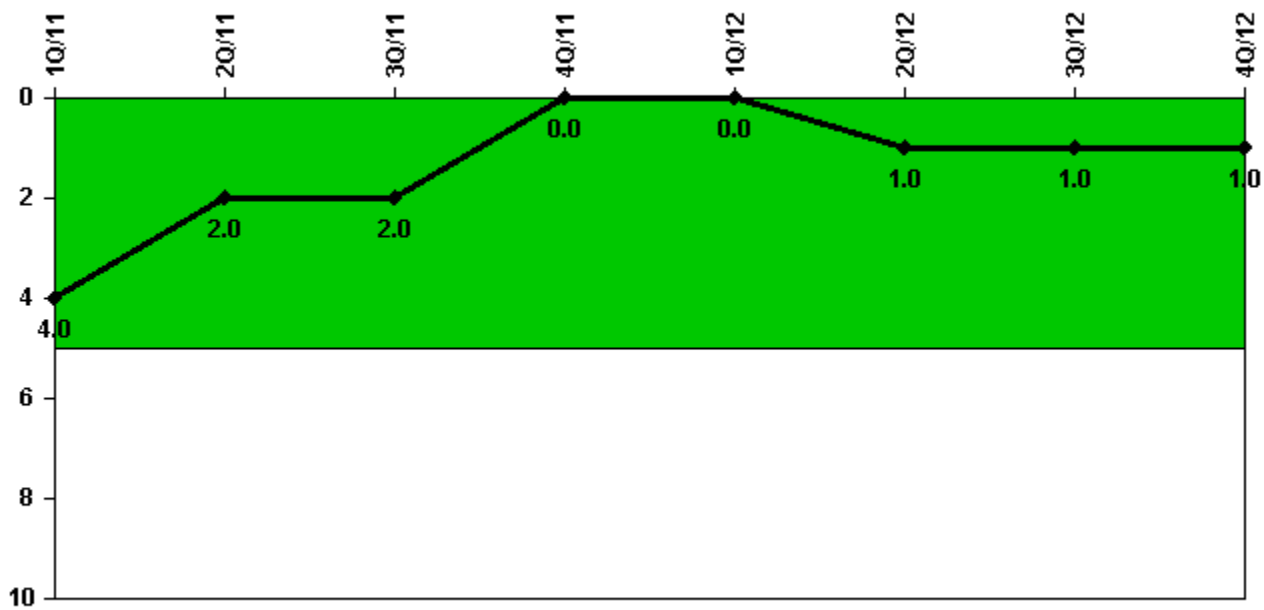
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

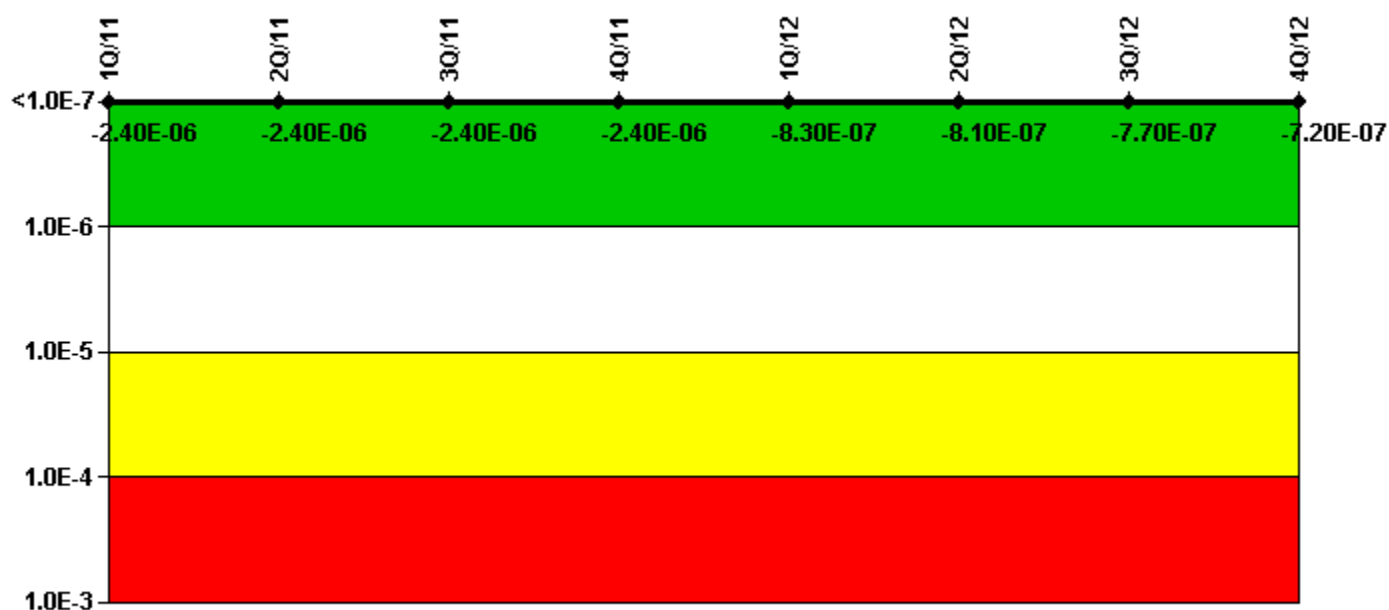
Notes

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

Licensee Comments:

2Q/12: LER-2012-004 reported a SSFF for one motor driven Auxiliary Feedwater Pump out of service during testing during the time liquid radiation monitor calibration was being performed which results in a Rad Bypass switch position for steam generator (SG) blowdown isolation valves being defeated for automatic isolation for degraded heat sink events. Condition can result in inadequate maintenance of SG inventory.

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)	6.97E-07	6.06E-07	6.11E-07	5.48E-07	7.71E-08	1.19E-07	1.28E-07	1.16E-07
URI (Δ CDF)	-3.12E-06	-2.98E-06	-3.00E-06	-2.97E-06	-9.11E-07	-9.27E-07	-8.94E-07	-8.33E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-06	-2.40E-06	-2.40E-06	-2.40E-06	-8.30E-07	-8.10E-07	-7.70E-07	-7.20E-07

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

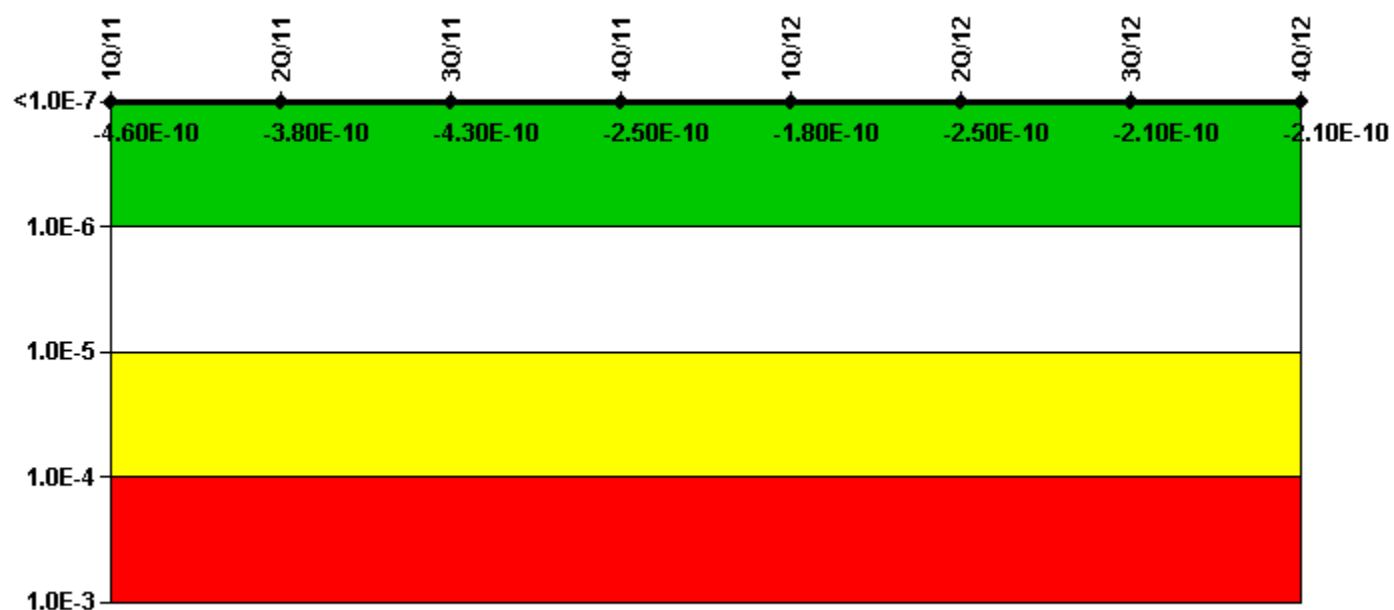
4Q/11: Risk Cap Invoked.

3Q/11: Risk Cap Invoked.

2Q/11: Risk Cap Invoked.

1Q/11: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

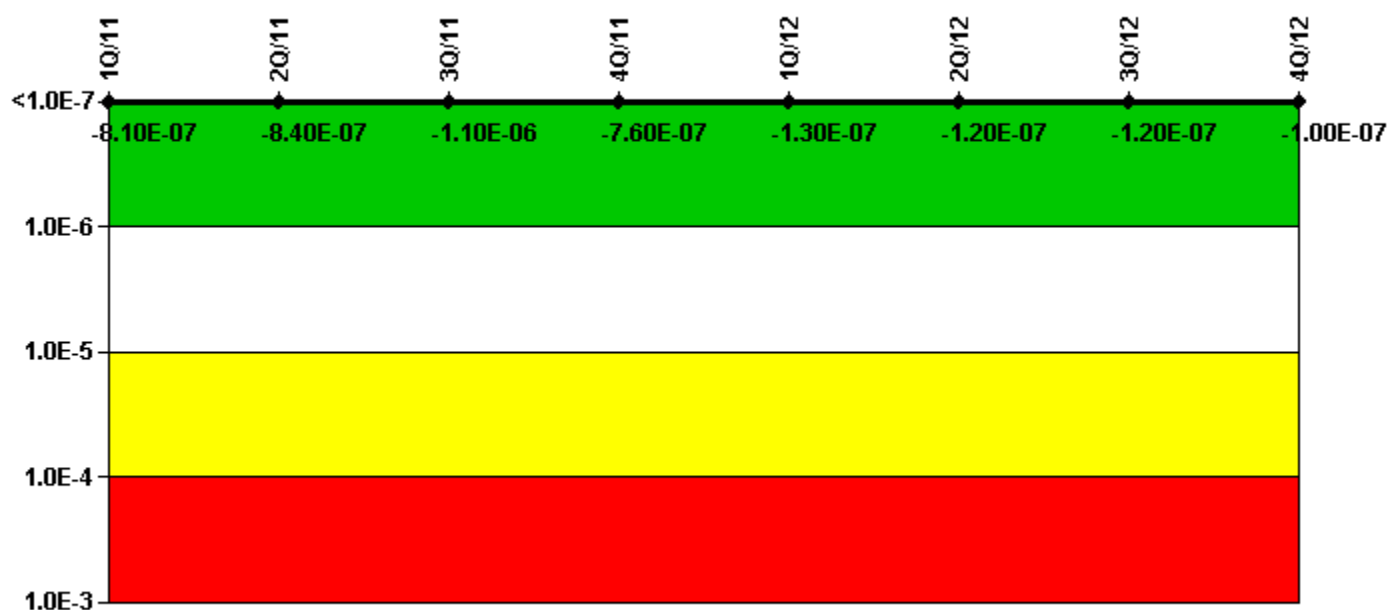
Mitigating Systems Performance Index, High Pressure Injection System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	-2.03E-10	-1.44E-10	-2.03E-10	-7.35E-12	-2.90E-11	-2.90E-11	2.23E-11	3.23E-11
URI (Δ CDF)	-2.56E-10	-2.36E-10	-2.31E-10	-2.46E-10	-1.53E-10	-2.20E-10	-2.31E-10	-2.41E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.60E-10	-3.80E-10	-4.30E-10	-2.50E-10	-1.80E-10	-2.50E-10	-2.10E-10	-2.10E-10

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: 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

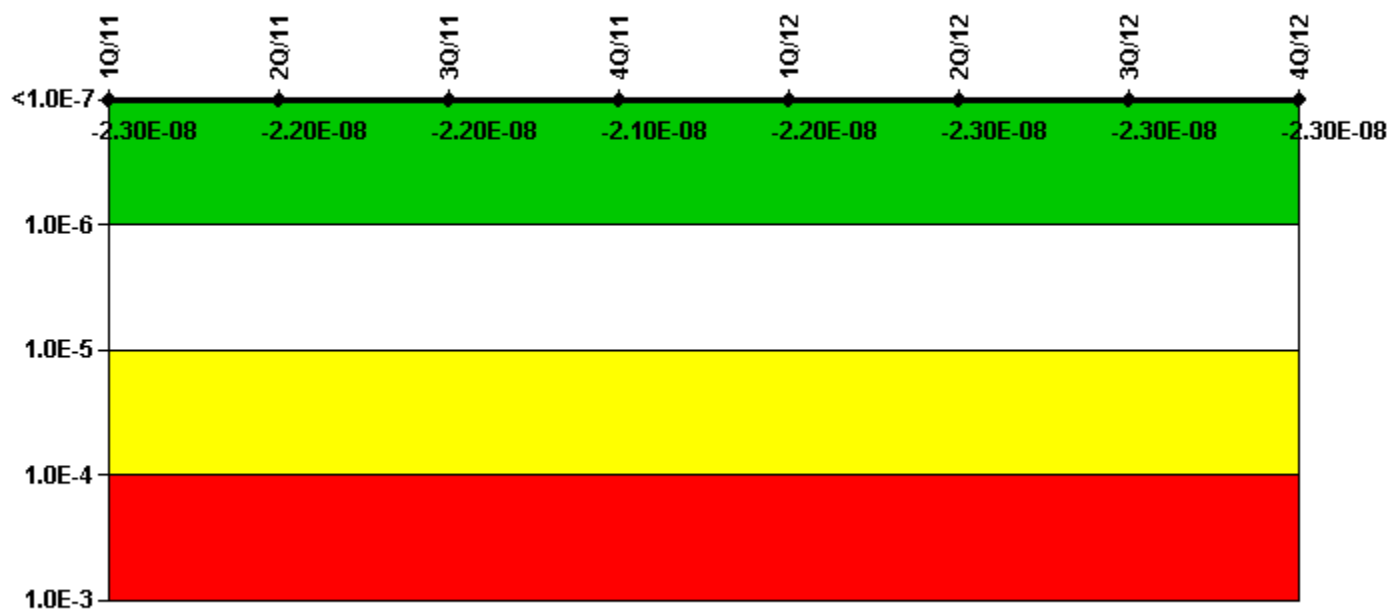
Mitigating Systems Performance Index, Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	2.08E-07	1.39E-07	-8.04E-08	-1.90E-07	-1.80E-08	-2.19E-08	-2.10E-08	-9.66E-09
URI (Δ CDF)	-1.02E-06	-9.79E-07	-9.76E-07	-5.68E-07	-1.15E-07	-9.75E-08	-9.64E-08	-9.09E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.10E-07	-8.40E-07	-1.10E-06	-7.60E-07	-1.30E-07	-1.20E-07	-1.20E-07	-1.00E-07

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: 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

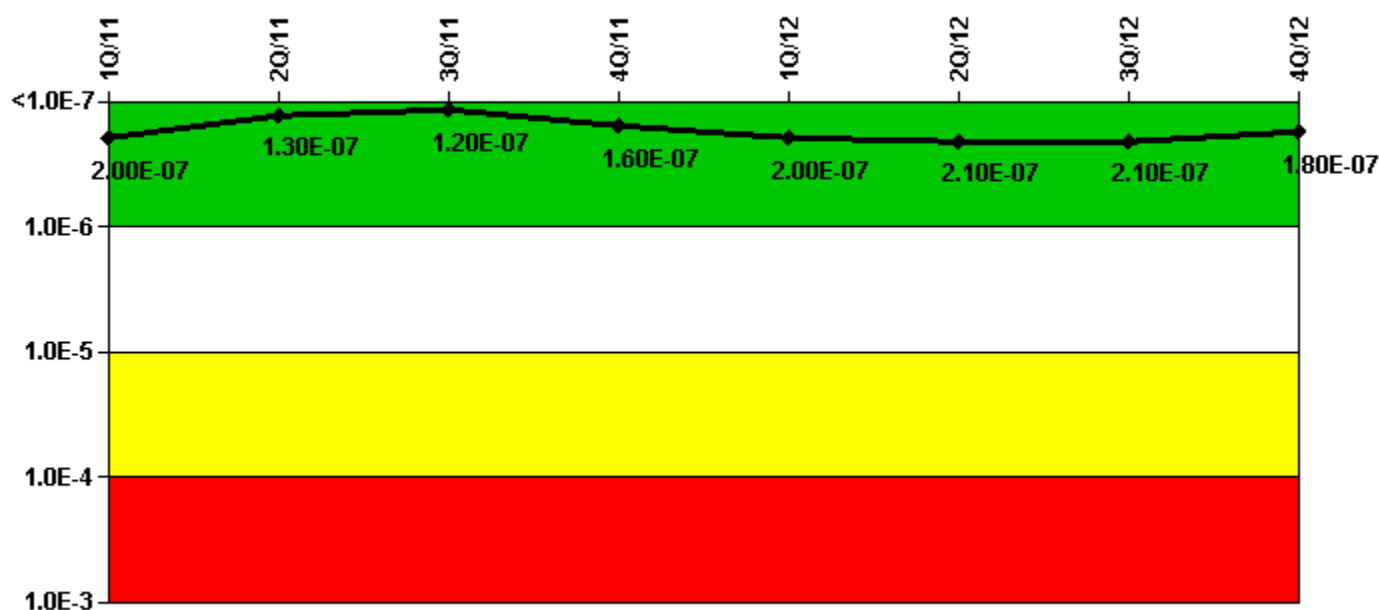
Mitigating Systems Performance Index, Residual Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (ΔCDF)	-1.09E-08	-1.09E-08	-1.10E-08	-1.09E-08	-8.82E-09	-8.80E-09	-8.71E-09	-8.67E-09
URI (ΔCDF)	-1.24E-08	-1.11E-08	-1.09E-08	-1.05E-08	-1.36E-08	-1.37E-08	-1.40E-08	-1.41E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-08	-2.20E-08	-2.20E-08	-2.10E-08	-2.20E-08	-2.30E-08	-2.30E-08	-2.30E-08

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: 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

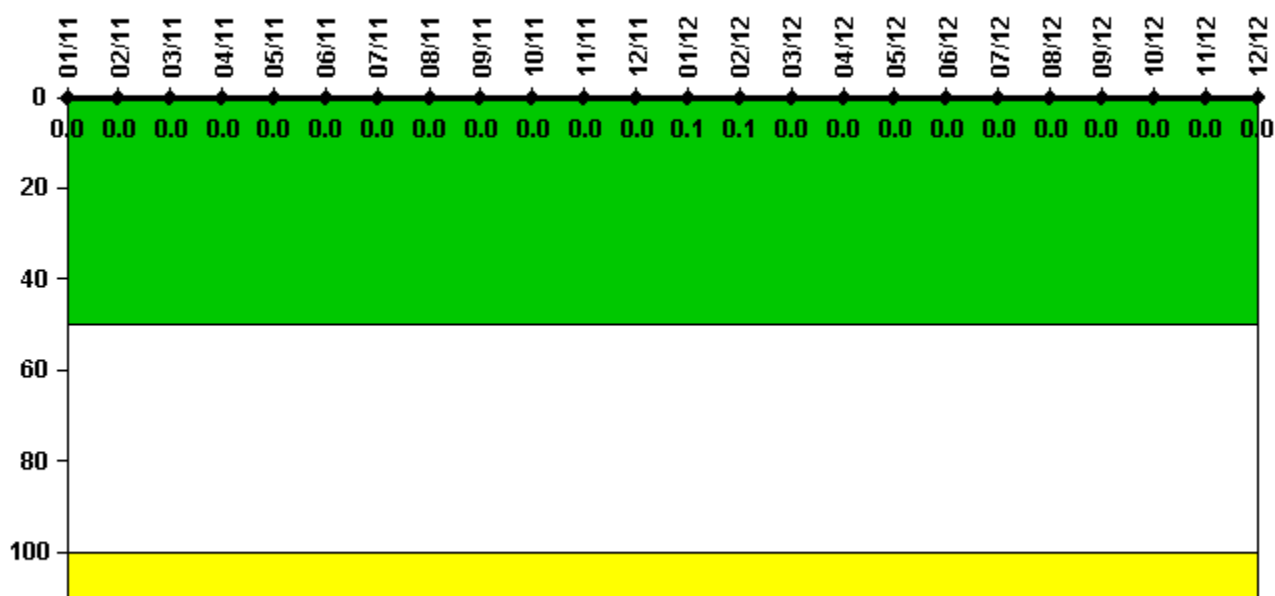
Mitigating Systems Performance Index, Cooling Water Systems	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	1.27E-07	7.99E-08	7.49E-08	7.59E-08	2.06E-08	2.10E-08	2.04E-08	5.13E-09
URI (Δ CDF)	7.15E-08	4.61E-08	4.59E-08	8.02E-08	1.76E-07	1.90E-07	1.88E-07	1.77E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.00E-07	1.30E-07	1.20E-07	1.60E-07	2.00E-07	2.10E-07	2.10E-07	1.80E-07

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

Reactor Coolant System Activity



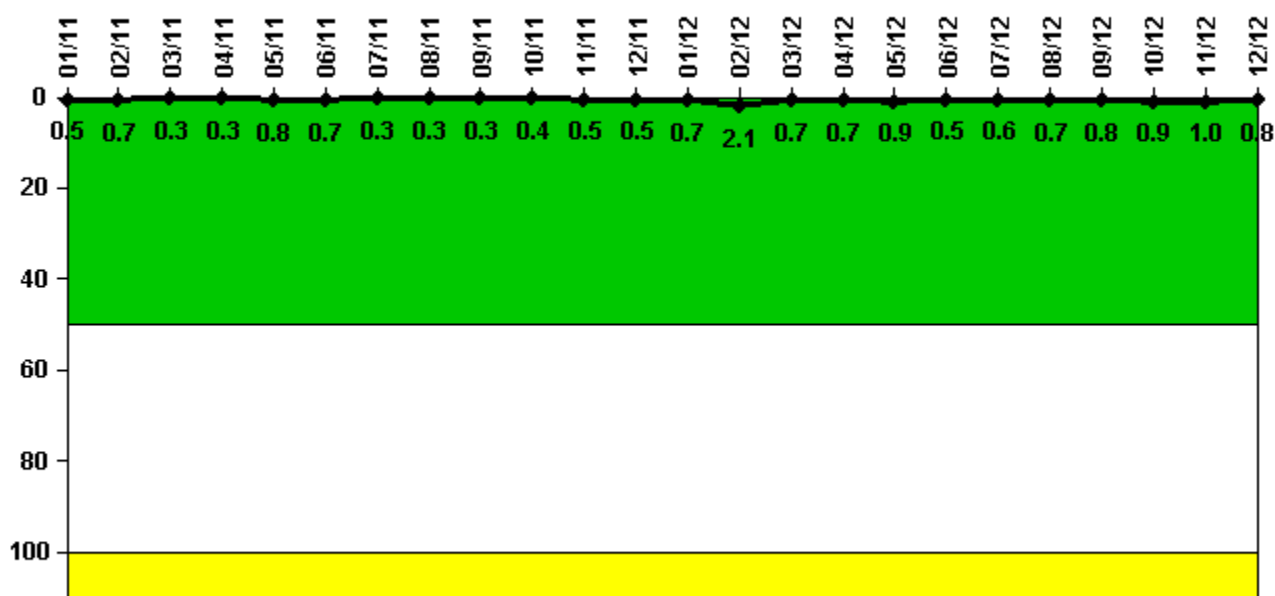
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum activity	0.000362	0.000333	0.000389	0.000370	0.000411	0.000398	0.000446	0.000450	0.000474	0.000472	0.000467	0.000476
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum activity	0.000500	0.000509	0.000459	0.000198	0.000189	0.000187	0.000196	0.000215	0.000217	0.000234	0.000218	0.000232
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



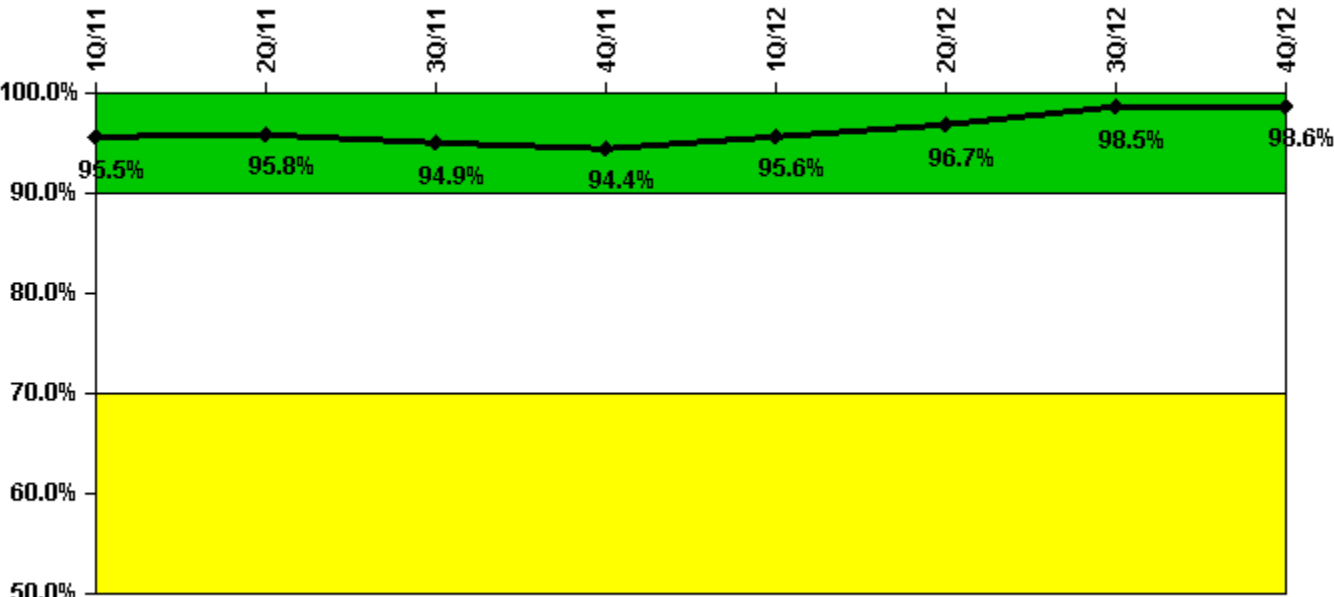
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum leakage	0.050	0.070	0.030	0.030	0.080	0.070	0.030	0.030	0.030	0.040	0.050	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.5	0.7	0.3	0.3	0.8	0.7	0.3	0.3	0.3	0.4	0.5	0.5
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	0.070	0.210	0.070	0.070	0.090	0.050	0.060	0.070	0.080	0.090	0.100	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	2.1	0.7	0.7	0.9	0.5	0.6	0.7	0.8	0.9	1.0	0.8

Licensee Comments: none

Drill/Exercise Performance



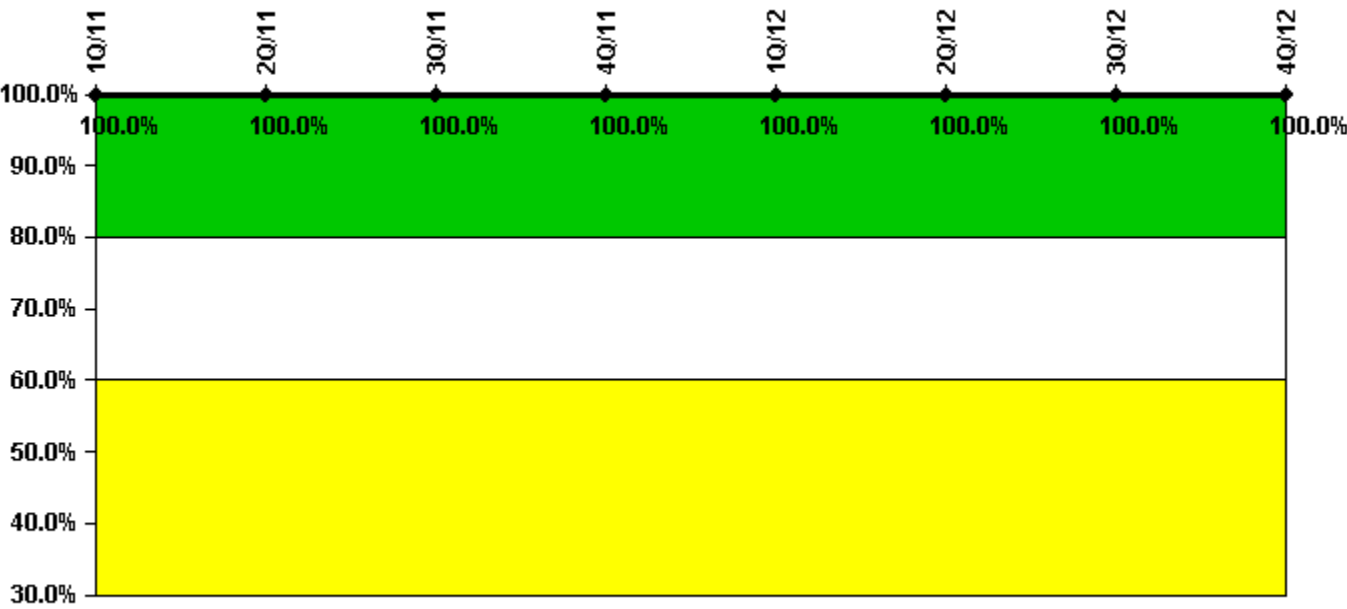
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful opportunities	19.0	66.0	143.0	14.0	131.0	289.0	374.0	273.0
Total opportunities	21.0	66.0	151.0	16.0	131.0	293.0	374.0	276.0
Indicator value	95.5%	95.8%	94.9%	94.4%	95.6%	96.7%	98.5%	98.6%

Licensee Comments: none

ERO Drill Participation



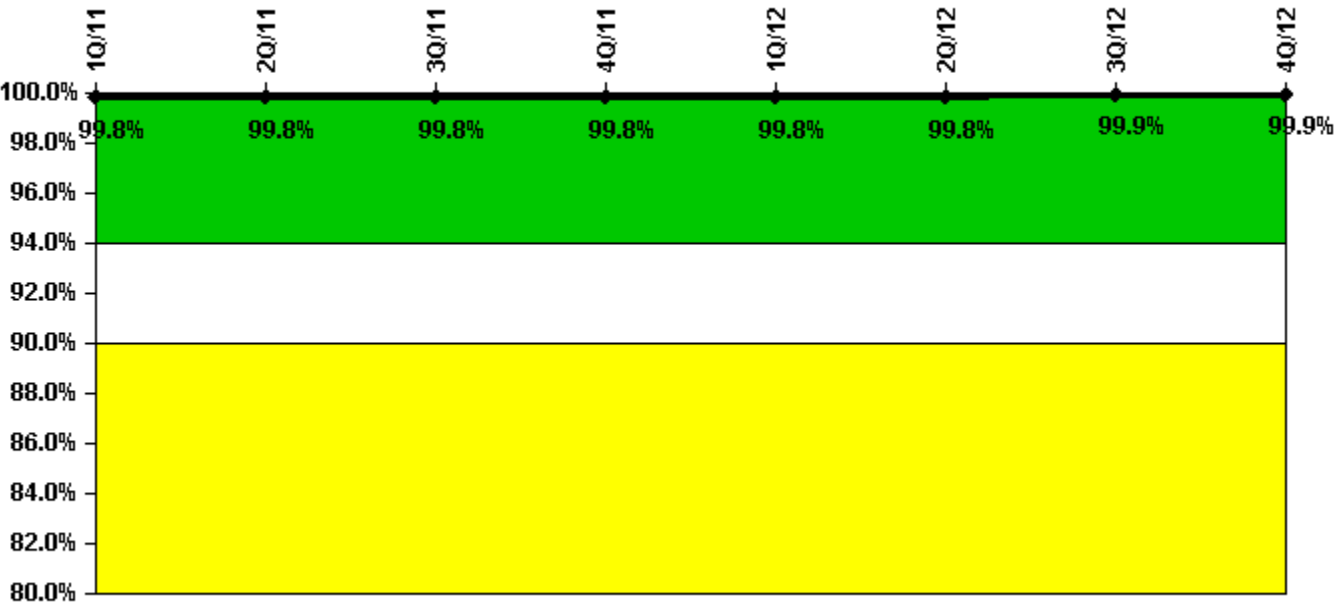
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Participating Key personnel	102.0	102.0	105.0	104.0	106.0	105.0	106.0	104.0
Total Key personnel	102.0	102.0	105.0	104.0	106.0	105.0	106.0	104.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



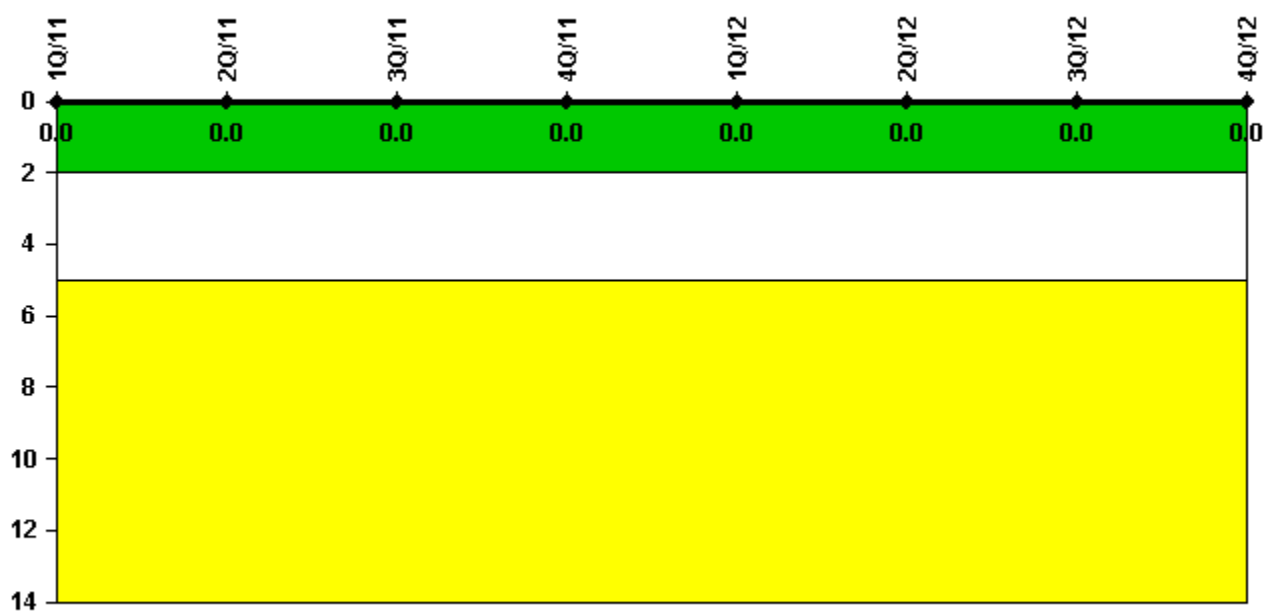
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful siren-tests	1012	1176	1201	993	956	787	1415	577
Total sirens-tests	1013	1179	1204	996	957	789	1415	577
Indicator value	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness

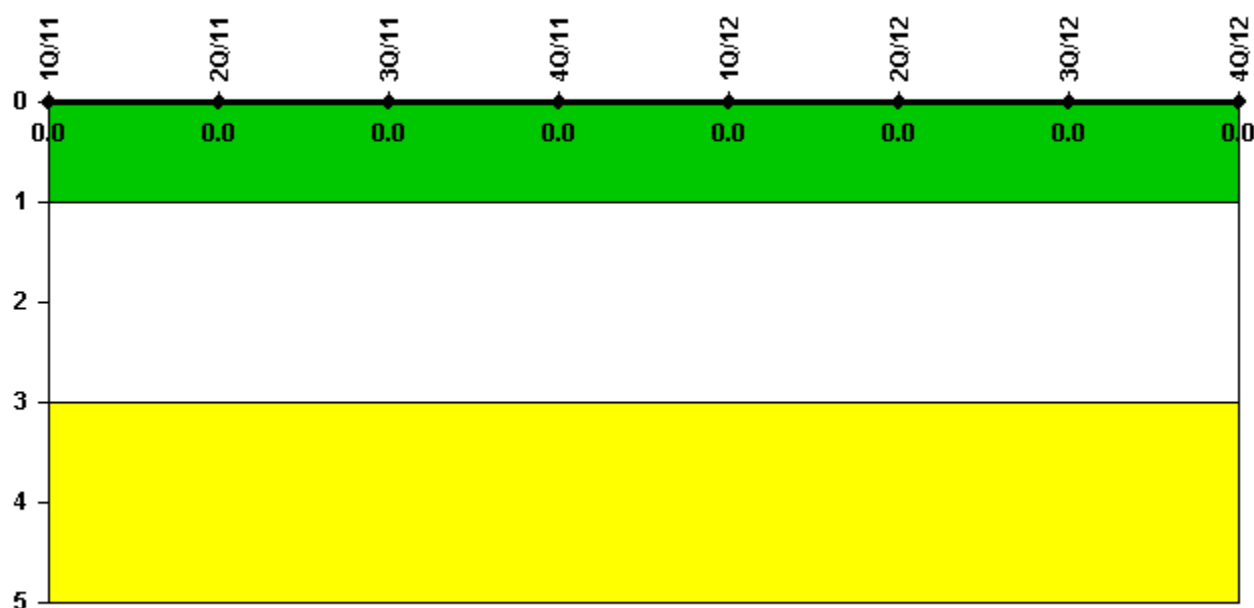


Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

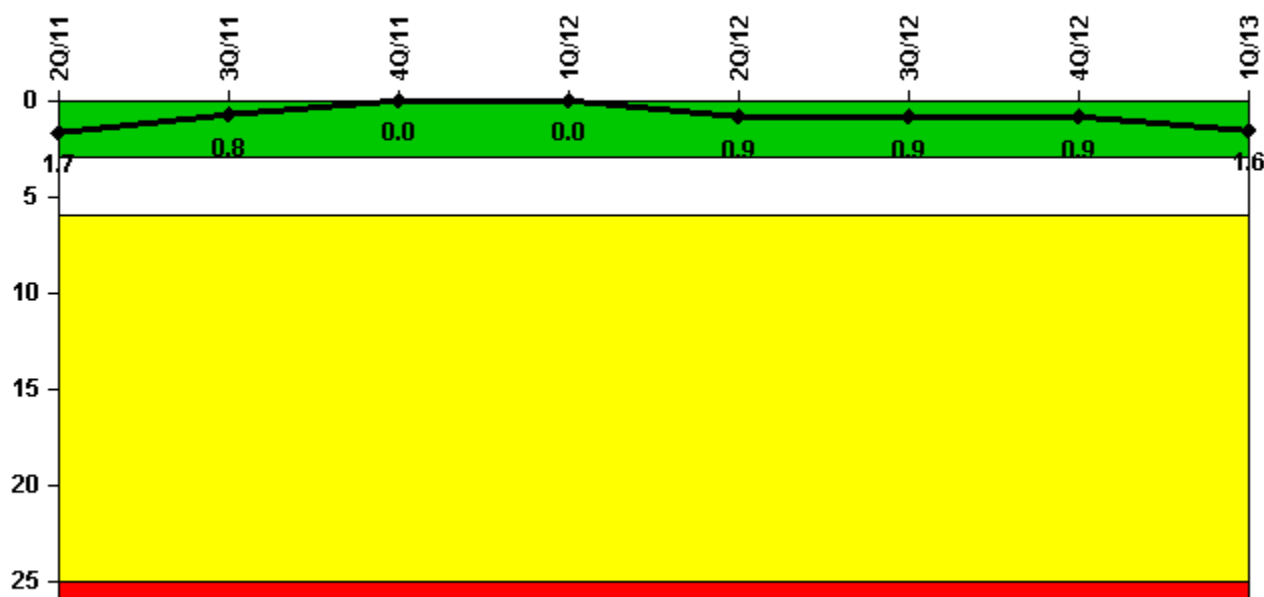
Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Indian Point 2

1Q/2013 Performance Indicators

Licensee's General Comments: The normalization factors for IDS and CCTV were revised from May 2012 to reflect changes in IDS and CCTV as a result of an upgrade that included a new protected area access facility and additional IDS and CCTVs. IDS NF = 1.20, CCTV NF = 1.20.

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

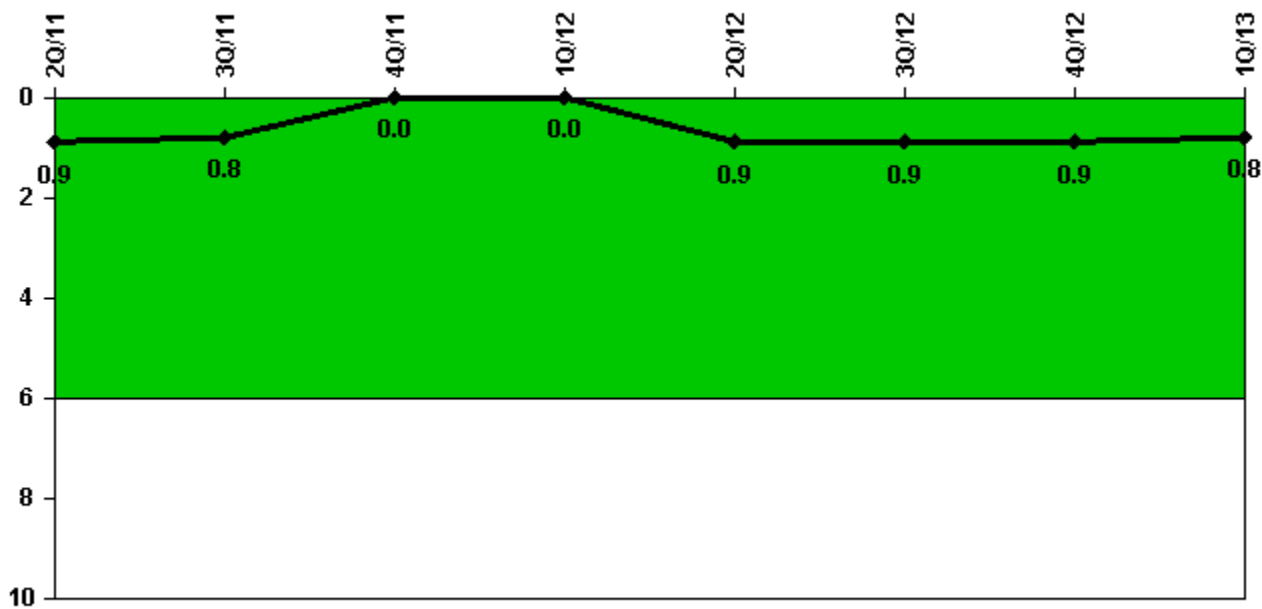
Notes

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	0	0	0	1.0	0	0	1.0
Critical hours	2087.1	2208.0	2209.0	1368.1	2154.6	2208.0	2209.0	2107.1
Indicator value	1.7	0.8	0	0	0.9	0.9	0.9	1.6

Licensee Comments:

1Q/13: LER-2013-001 reported on April 15, 2013, a manual reactor trip on February 13, 2013, due to decreasing steam generator levels as a result of the trip of both heater drain tank pumps during AOV diagnostics testing.

Unplanned Power Changes per 7000 Critical Hrs



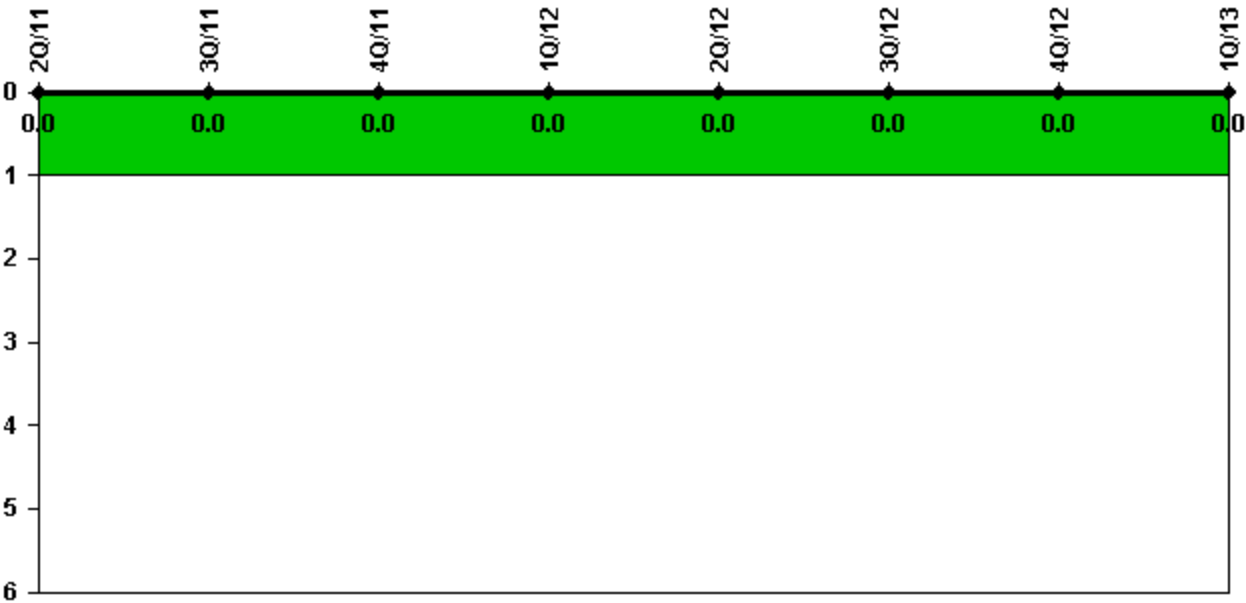
Thresholds: White > 6.0

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	1.0	0	0	0
Critical hours	2087.1	2208.0	2209.0	1368.1	2154.6	2208.0	2209.0	2107.1
Indicator value	0.9	0.8	0	0	0.9	0.9	0.9	0.8

Licensee Comments: none

Unplanned Scrams with Complications



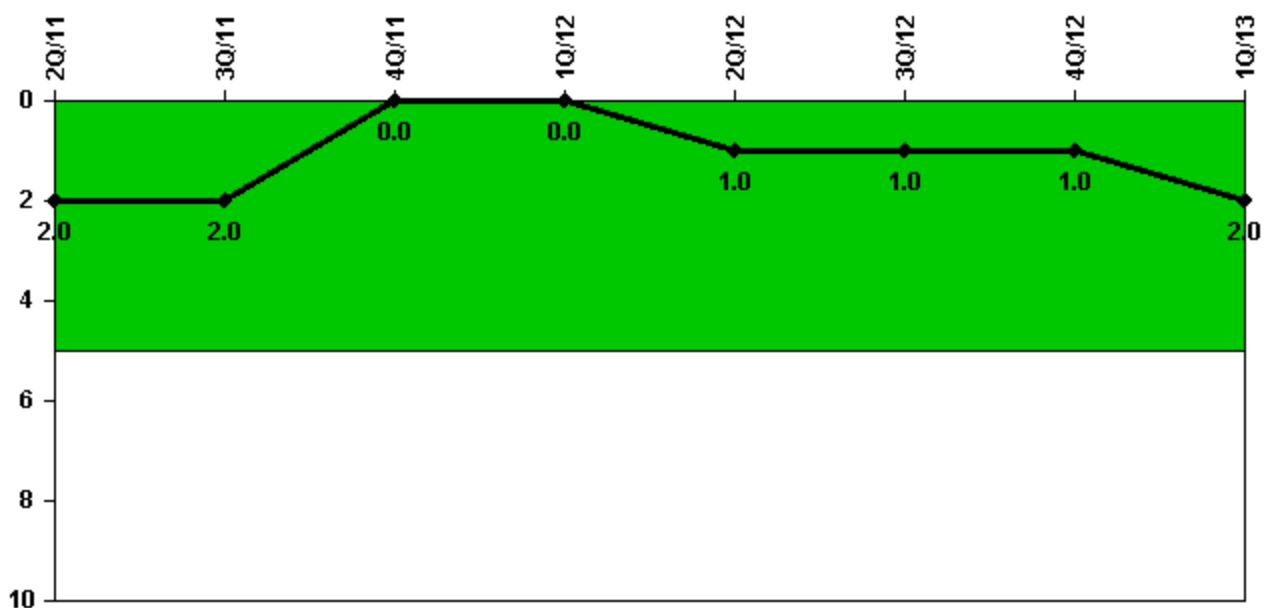
Thresholds: White > 1.0

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	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

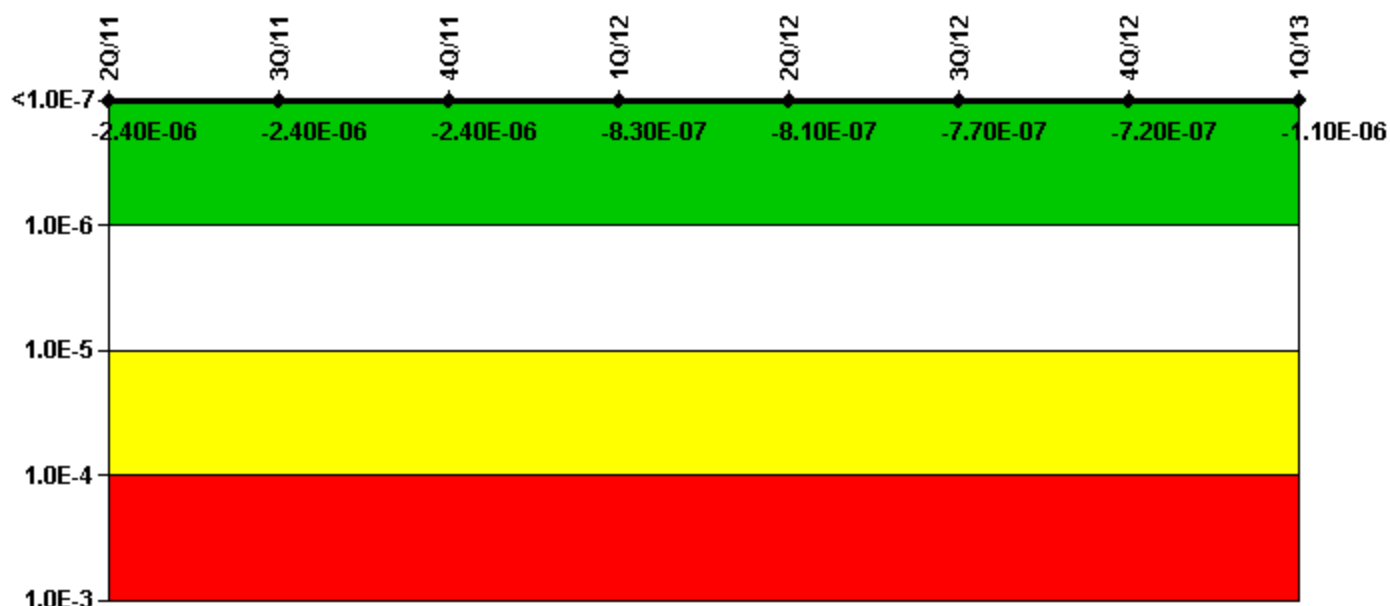
Safety System Functional Failures (PWR)	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Safety System Functional Failures	0	0	0	0	1	0	0	1
Indicator value	2	2	0	0	1	1	1	2

Licensee Comments:

1Q/13: LER-2012-009-00 reported on January 28, 2013, a safety system functional failure due to use of the Rad Bypass switch for steam generator blowdown isolation valves which defeats their automatic isolation for analyzed events. Equipment tag-out were discovered that placed all the SGBD isolation valves in Rad bypass while a moter driven auxilary feedwater pump was out of service. Condition results in the inability to maintain SG inventory with continuous SGBD during heat sink events.

2Q/12: LER-2012-004 reported a SSFF for one motor driven Auxiliary Feedwater Pump out of service during testing during the time liquid radiation monitor calibration was being performed which results in a Rad BYpass switch position for steam generator (SG)blowdown isolation valves being defeated for automatic isolation for degraded heat sink events. Condition can result in inadequate maintenance of SG inventory.

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)	6.06E-07	6.11E-07	5.48E-07	7.71E-08	1.19E-07	1.28E-07	1.16E-07	1.05E-07
URI (Δ CDF)	-2.98E-06	-3.00E-06	-2.97E-06	-9.11E-07	-9.27E-07	-8.94E-07	-8.33E-07	-1.16E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-06	-2.40E-06	-2.40E-06	-8.30E-07	-8.10E-07	-7.70E-07	-7.20E-07	-1.10E-06

Licensee Comments:

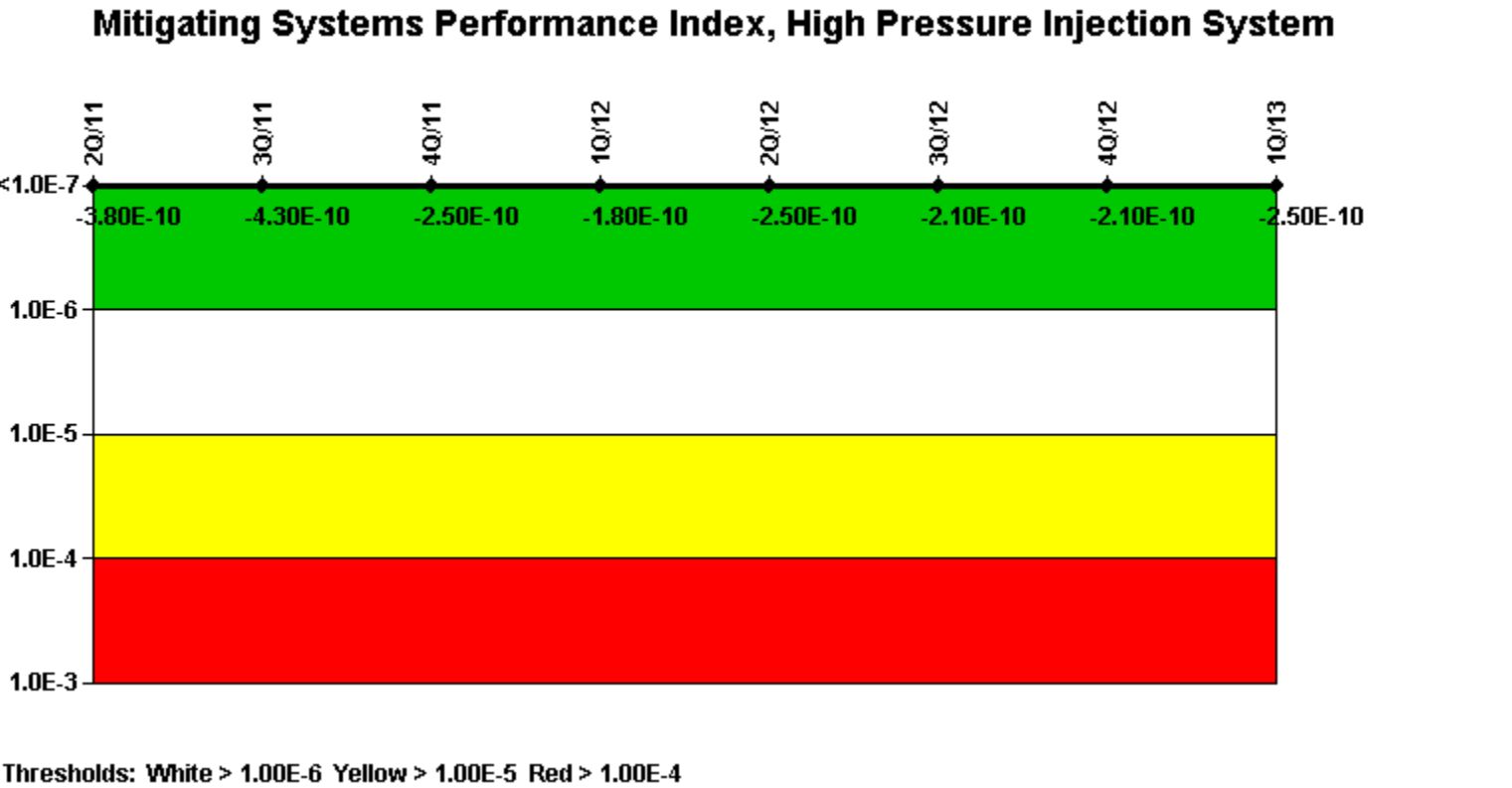
2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

4Q/11: Risk Cap Invoked.

3Q/11: Risk Cap Invoked.

2Q/11: Risk Cap Invoked.



Notes

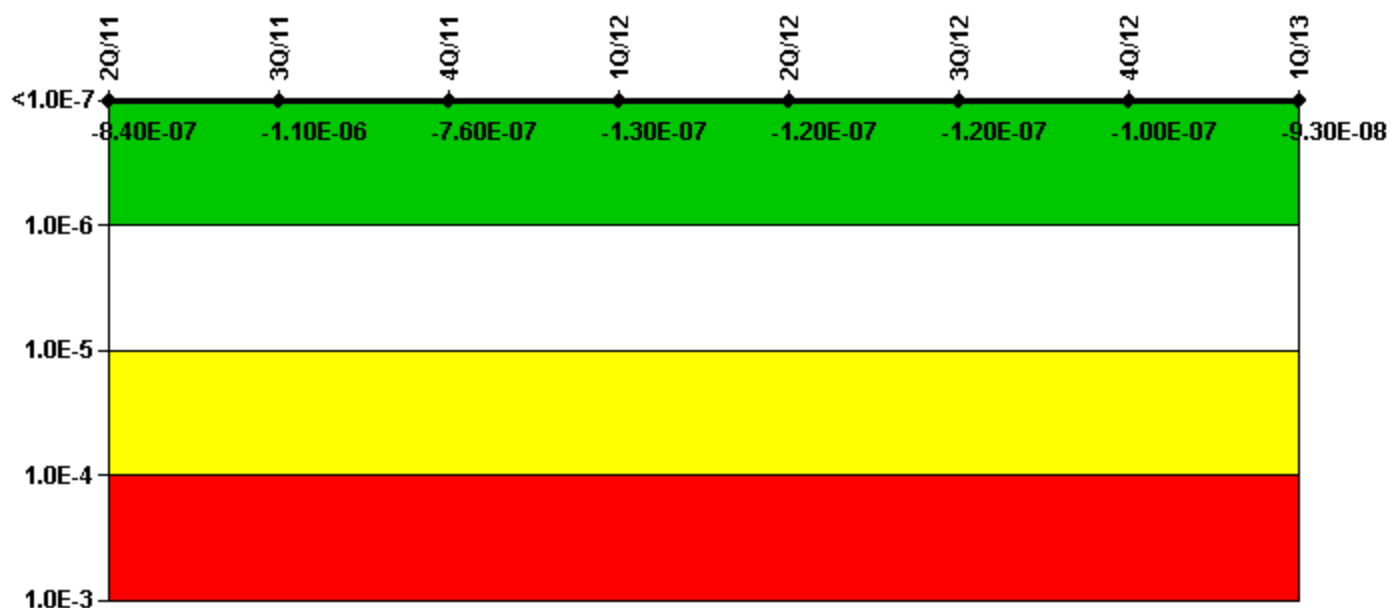
Mitigating Systems Performance Index, High Pressure Injection System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (ΔCDF)	-1.44E-10	-2.03E-10	-7.35E-12	-2.90E-11	-2.90E-11	2.23E-11	3.23E-11	-5.43E-12
URI (ΔCDF)	-2.36E-10	-2.31E-10	-2.46E-10	-1.53E-10	-2.20E-10	-2.31E-10	-2.41E-10	-2.48E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.80E-10	-4.30E-10	-2.50E-10	-1.80E-10	-2.50E-10	-2.10E-10	-2.10E-10	-2.50E-10

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Heat Removal System



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

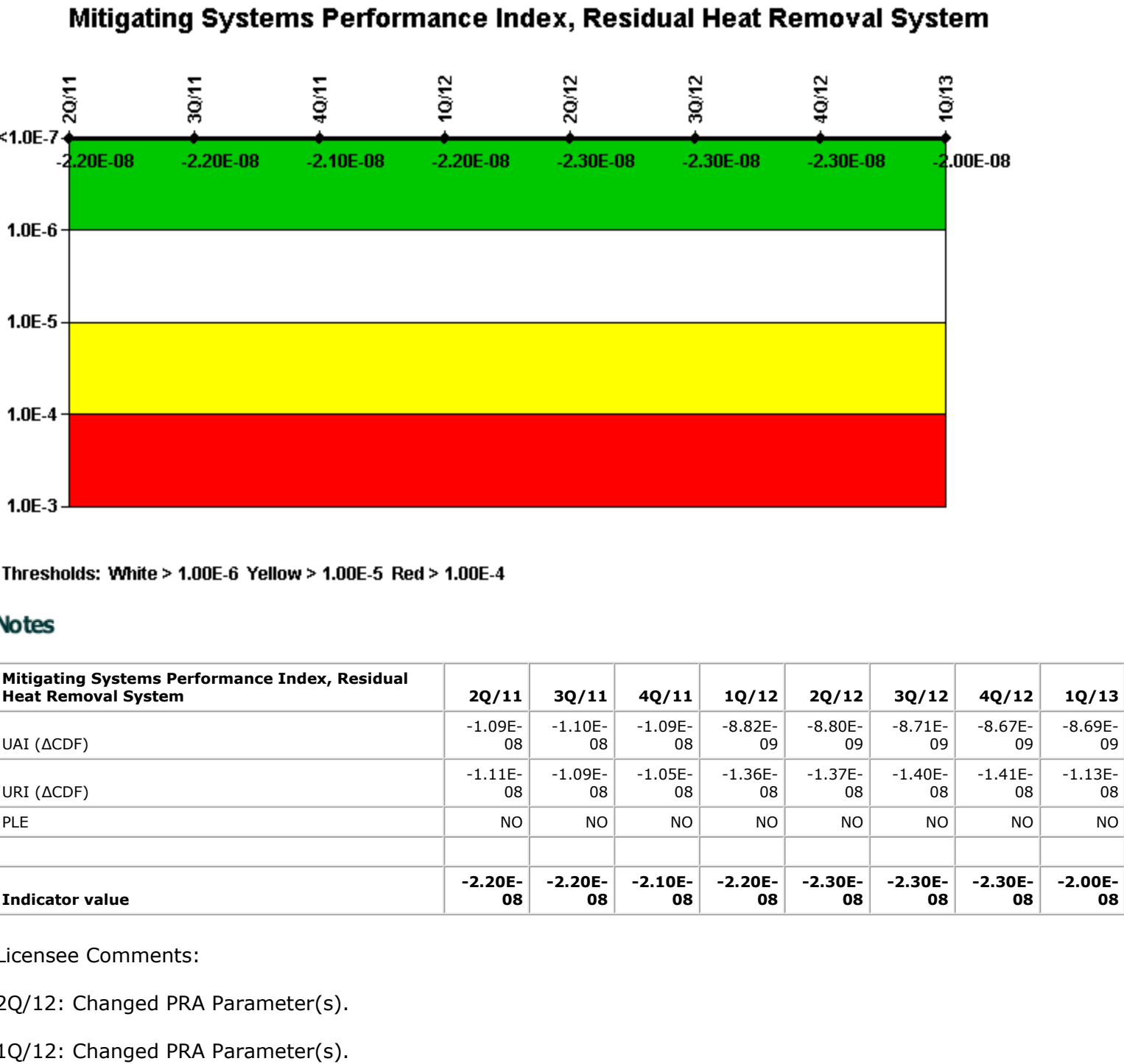
Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	1.39E-07	-8.04E-08	-1.90E-07	-1.80E-08	-2.19E-08	-2.10E-08	-9.66E-09	-2.41E-08
URI (Δ CDF)	-9.79E-07	-9.76E-07	-5.68E-07	-1.15E-07	-9.75E-08	-9.64E-08	-9.09E-08	-6.87E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.40E-07	-1.10E-06	-7.60E-07	-1.30E-07	-1.20E-07	-1.20E-07	-1.00E-07	-9.30E-08

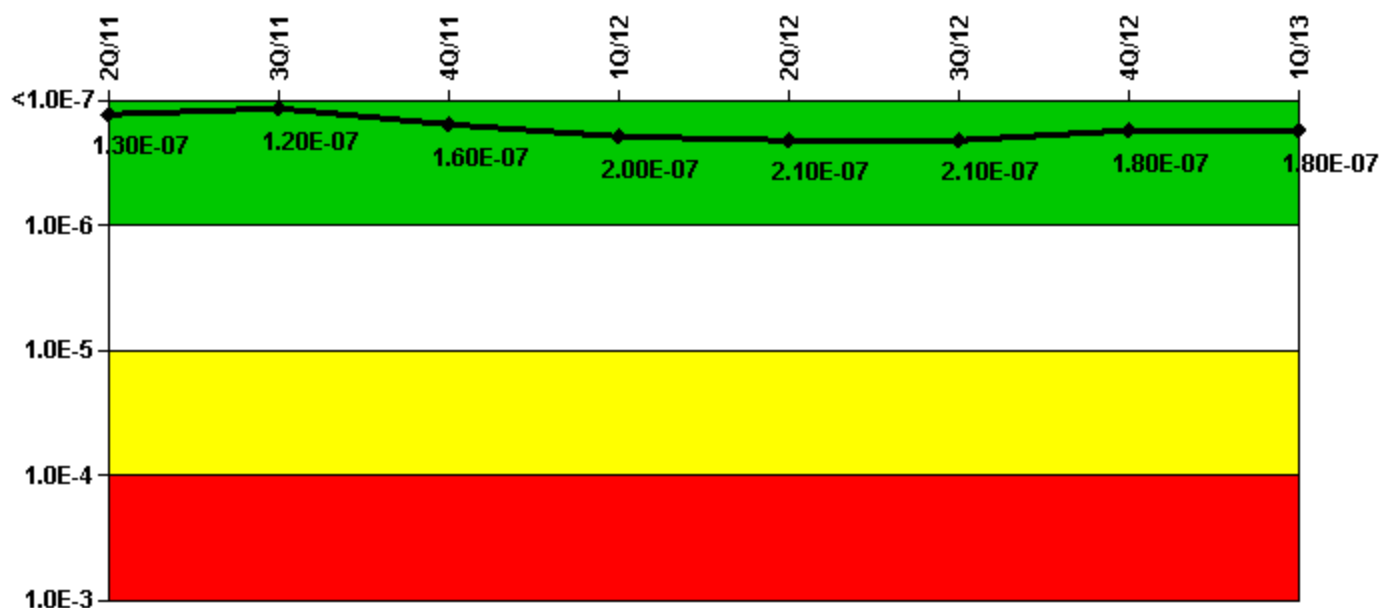
Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).



Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

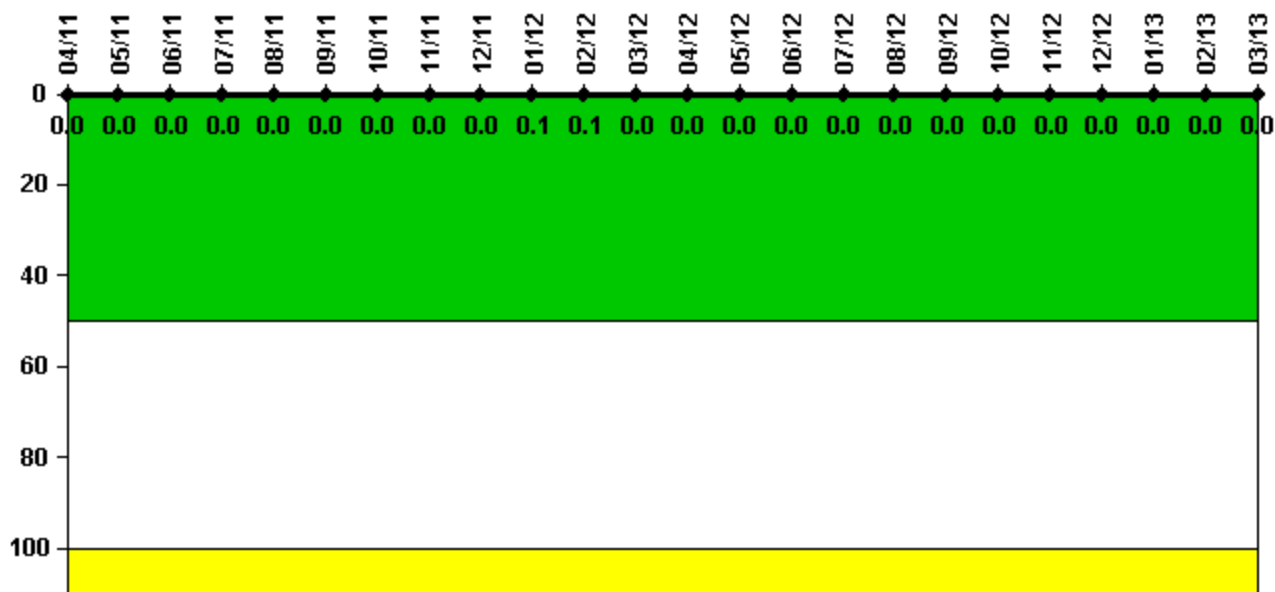
Mitigating Systems Performance Index, Cooling Water Systems	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
UAI (Δ CDF)	7.99E-08	7.49E-08	7.59E-08	2.06E-08	2.10E-08	2.04E-08	5.13E-09	5.22E-09
URI (Δ CDF)	4.61E-08	4.59E-08	8.02E-08	1.76E-07	1.90E-07	1.88E-07	1.77E-07	1.79E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.30E-07	1.20E-07	1.60E-07	2.00E-07	2.10E-07	2.10E-07	1.80E-07	1.80E-07

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

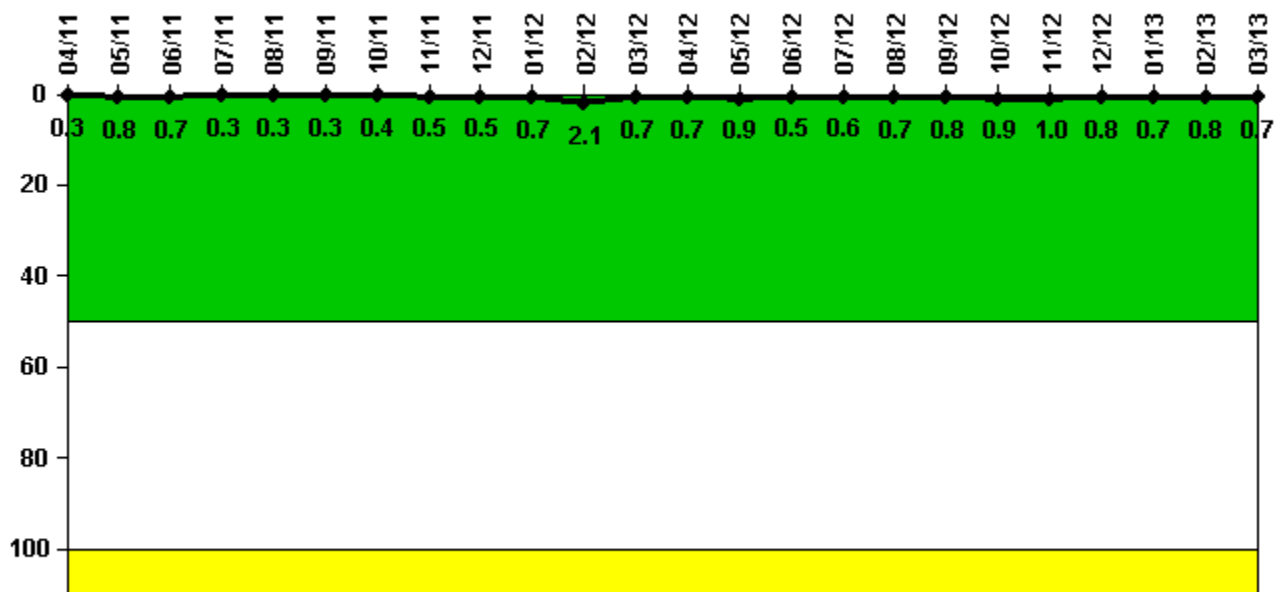
Notes

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	0.000370	0.000411	0.000398	0.000446	0.000450	0.000474	0.000472	0.000467	0.000476	0.000500	0.000509	0.000459
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0.1	0.1	0

Reactor Coolant System Activity	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum activity	0.000198	0.000189	0.000187	0.000196	0.000215	0.000217	0.000234	0.000218	0.000232	0.000244	0.000267	0.000246
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



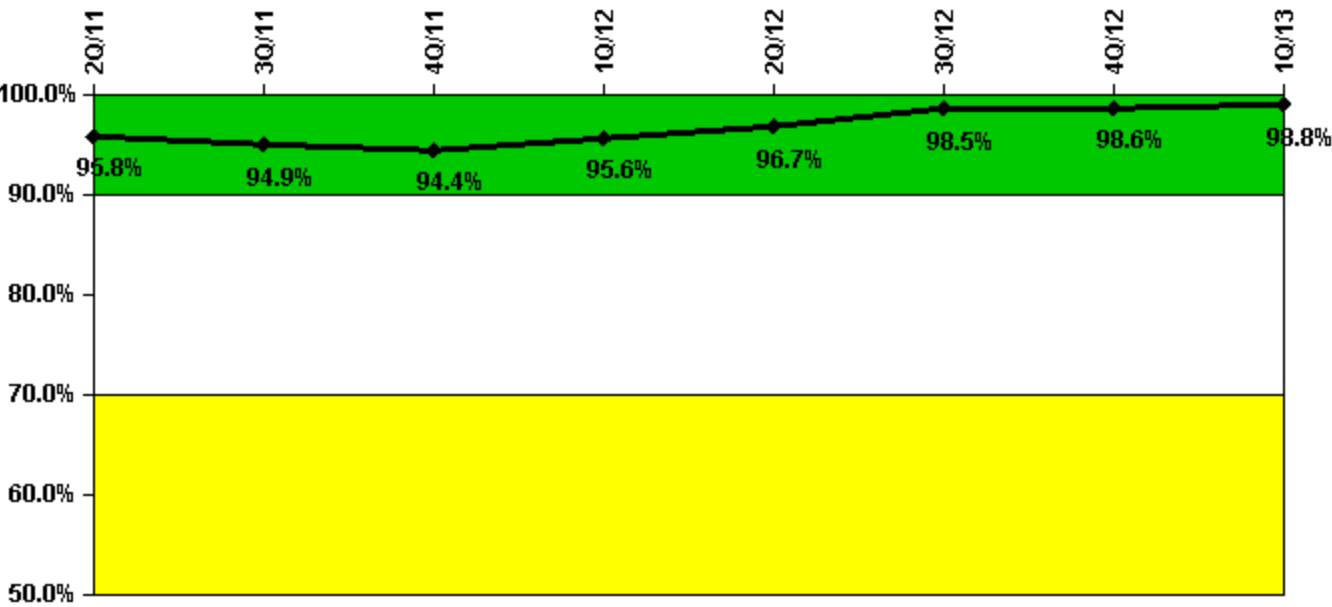
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum leakage	0.030	0.080	0.070	0.030	0.030	0.030	0.040	0.050	0.050	0.070	0.210	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.3	0.8	0.7	0.3	0.3	0.3	0.4	0.5	0.5	0.7	2.1	0.7
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	0.070	0.090	0.050	0.060	0.070	0.080	0.090	0.100	0.080	0.070	0.080	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.9	0.5	0.6	0.7	0.8	0.9	1.0	0.8	0.7	0.8	0.7

Licensee Comments: none

Drill/Exercise Performance



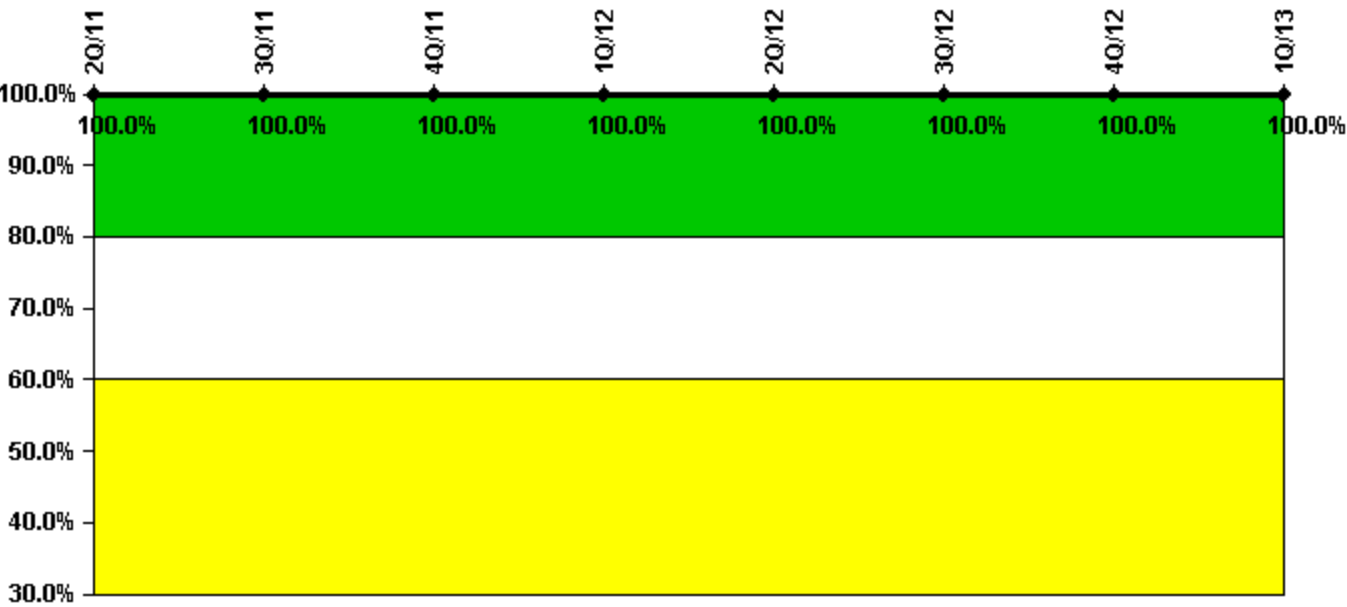
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful opportunities	66.0	143.0	14.0	131.0	289.0	374.0	273.0	101.0
Total opportunities	66.0	151.0	16.0	131.0	293.0	374.0	276.0	101.0
Indicator value	95.8%	94.9%	94.4%	95.6%	96.7%	98.5%	98.6%	98.8%

Licensee Comments: none

ERO Drill Participation



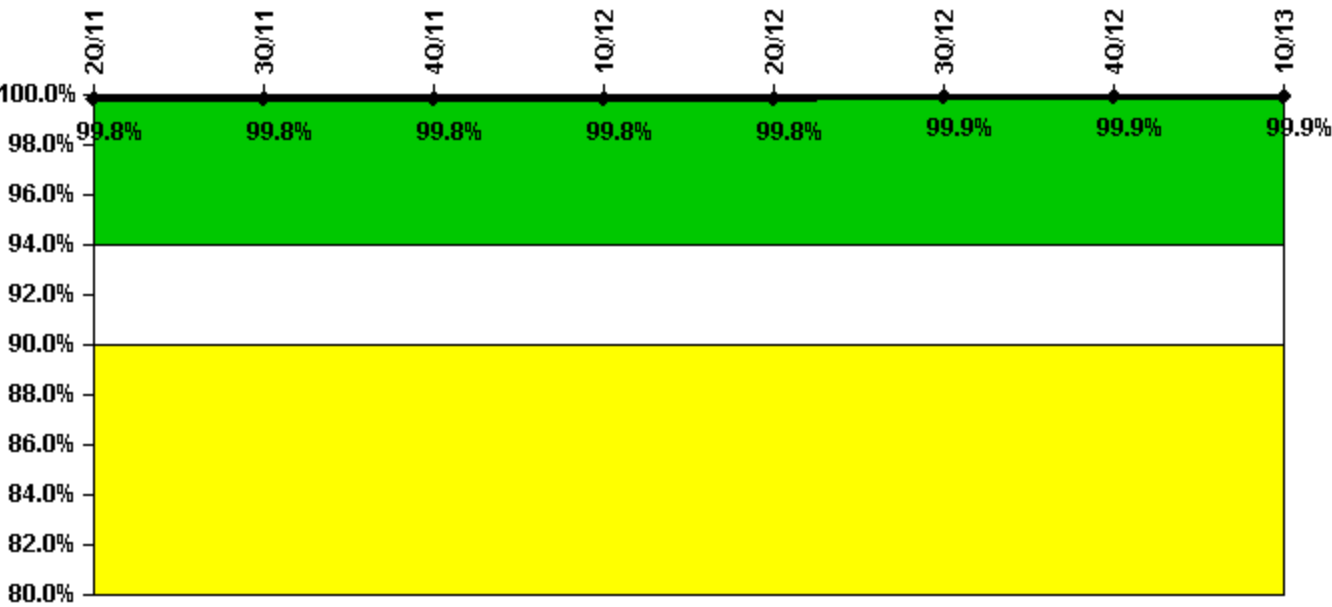
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Participating Key personnel	102.0	105.0	104.0	106.0	105.0	106.0	104.0	106.0
Total Key personnel	102.0	105.0	104.0	106.0	105.0	106.0	104.0	106.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



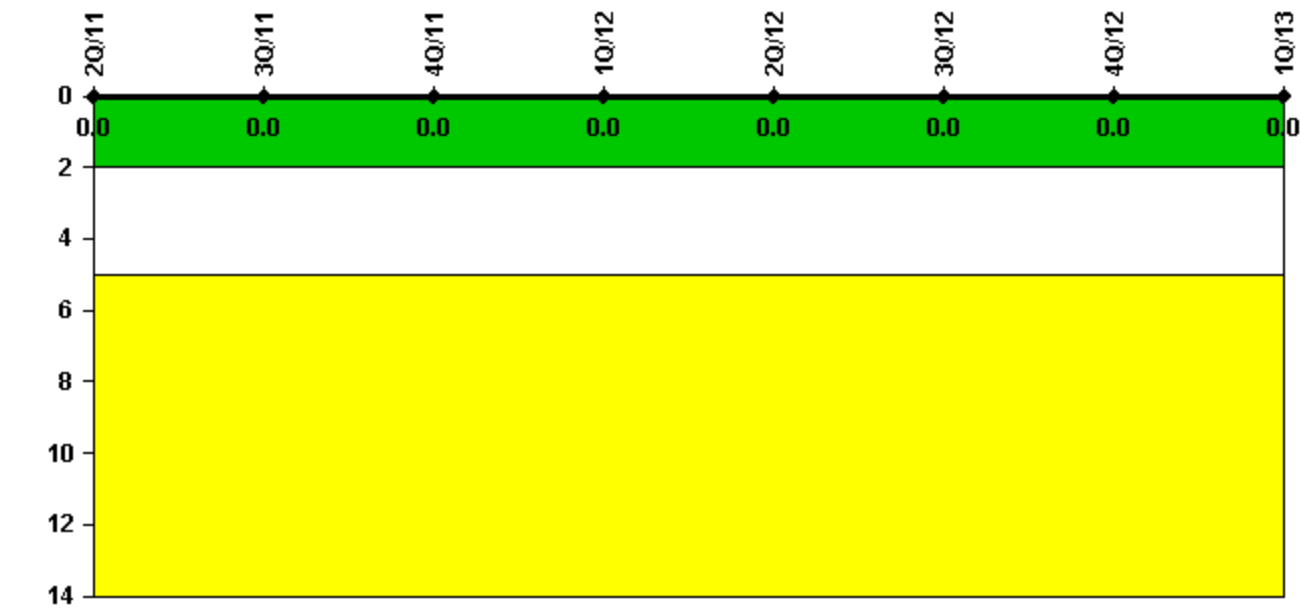
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful siren-tests	1176	1201	993	956	787	1415	577	1015
Total sirens-tests	1179	1204	996	957	789	1415	577	1015
Indicator value	99.8%	99.8%	99.8%	99.8%	99.8%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



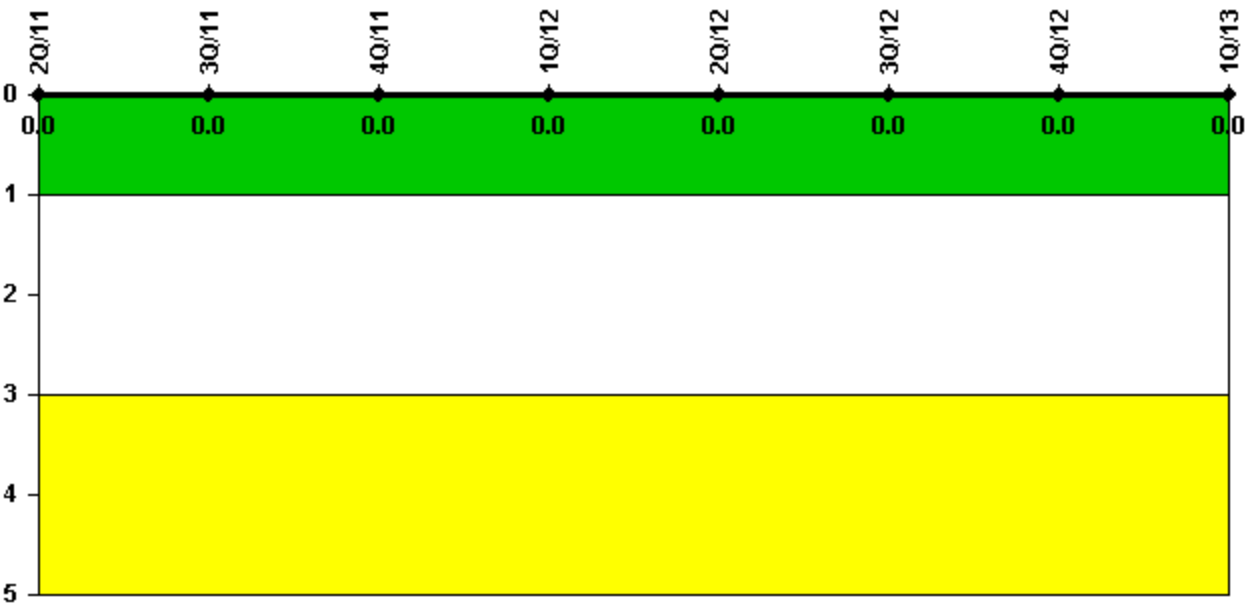
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

Last Modified: April 23, 2013

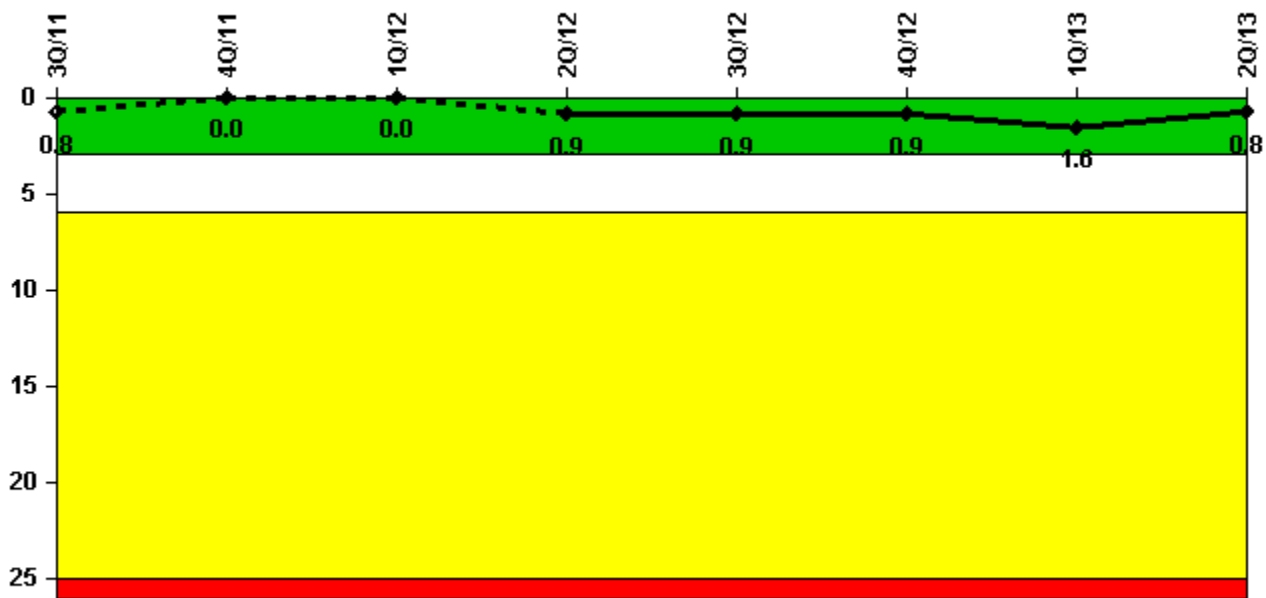
Indian Point 2

2Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: Changes to the 4Q11 MSPI data resulted in subsequent changes to the MSPI data calculation.

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

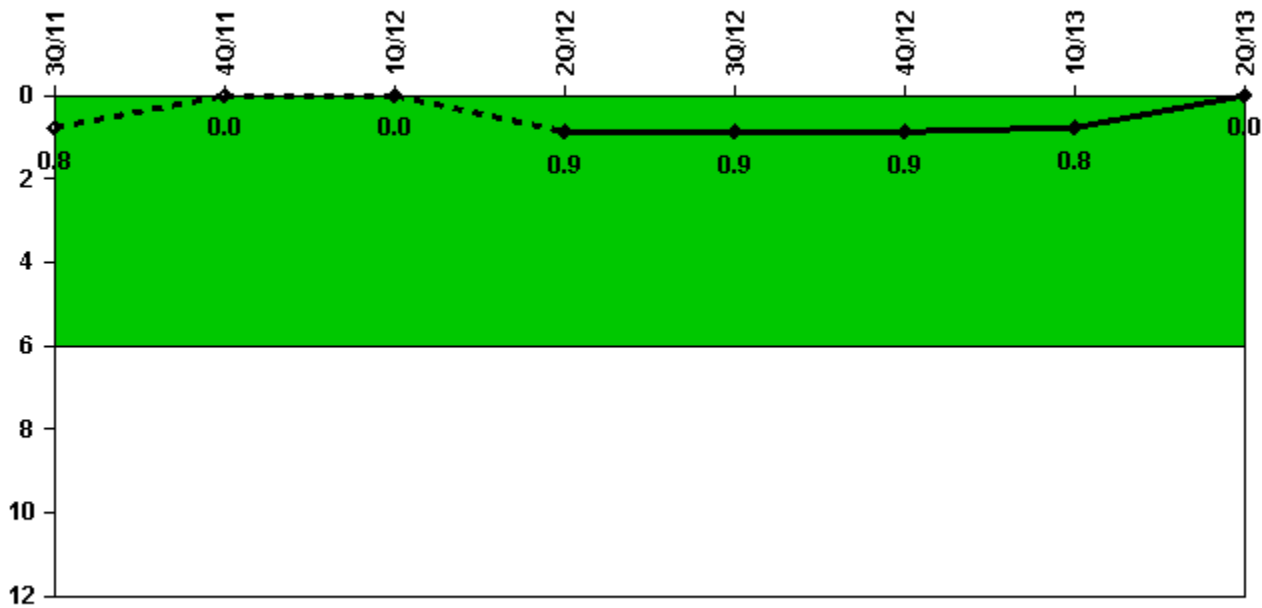
Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned scrams	0	0	0	1.0	0	0	1.0	0
Critical hours	2208.0	2209.0	1368.1	2154.6	2208.0	2209.0	2107.1	2184.0
Indicator value	0.8	0	0	0.9	0.9	0.9	1.6	0.8

Licensee Comments:

1Q/13: LER-2013-001 reported on April 15, 2013, a manual reactor trip on February 13, 2013, due to decreasing steam generator levels as a result of the trip of both heater drain tank pumps during AOV diagnostics testing.

Unplanned Power Changes per 7000 Critical Hrs



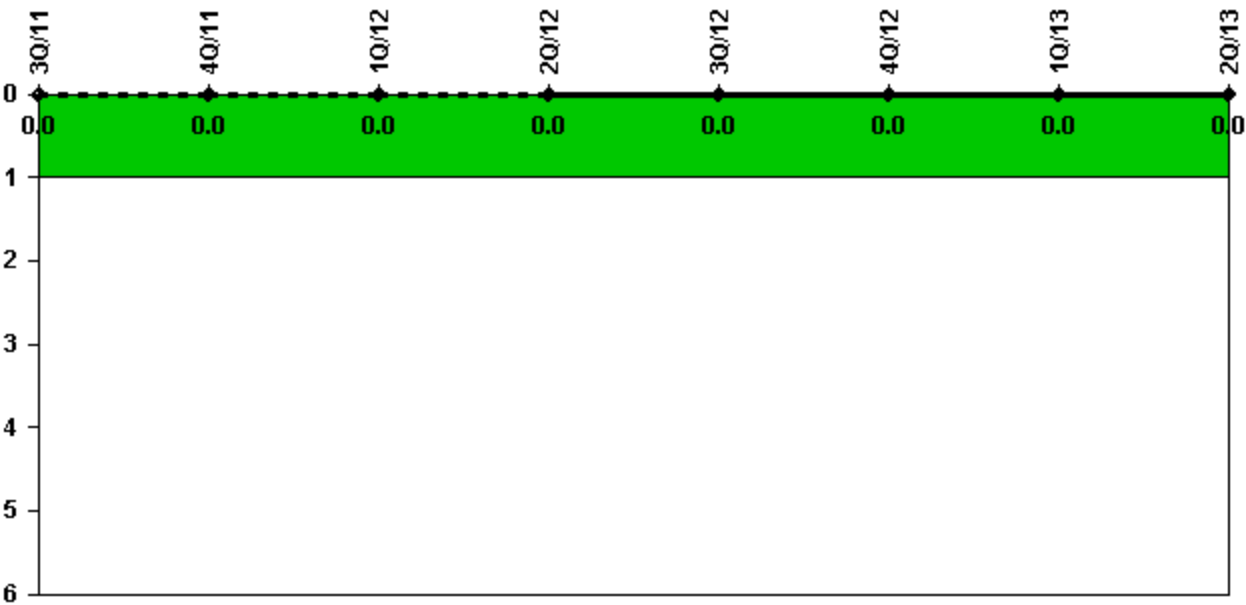
Thresholds: White > 6.0

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	1.0	0	0	0	0
Critical hours	2208.0	2209.0	1368.1	2154.6	2208.0	2209.0	2107.1	2184.0
Indicator value	0.8	0	0	0.9	0.9	0.9	0.8	0

Licensee Comments: none

Unplanned Scrams with Complications



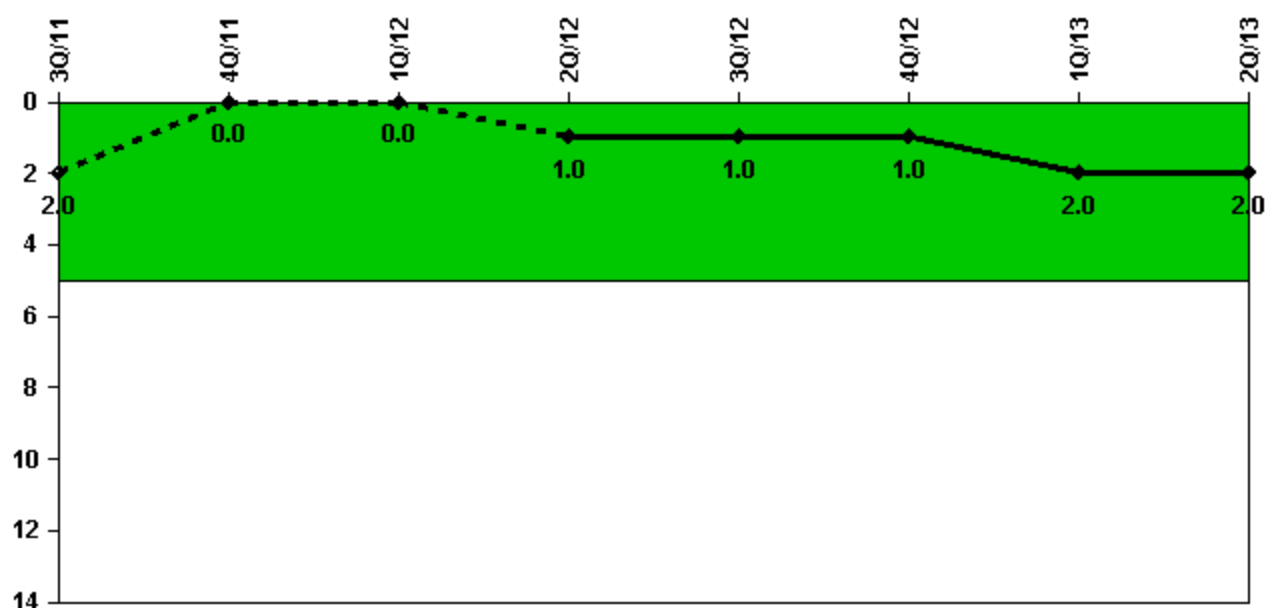
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	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/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Safety System Functional Failures	0	0	0	1	0	0	1	1
Indicator value	2	0	0	1	1	1	2	2

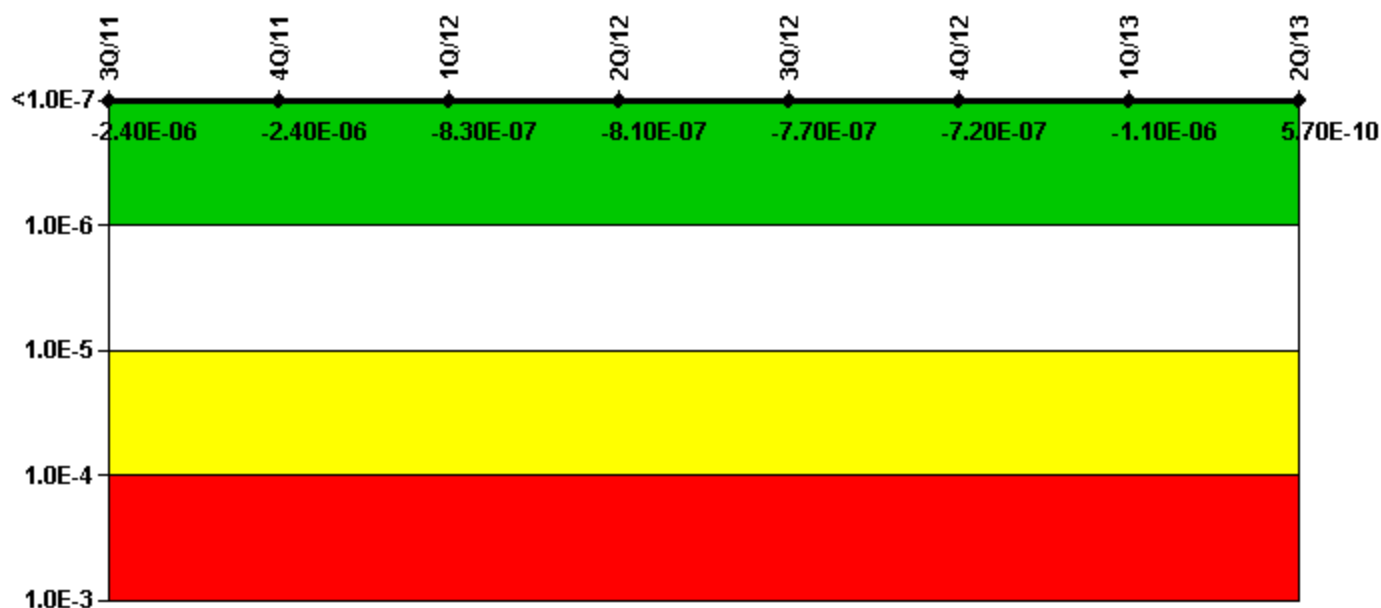
Licensee Comments:

2Q/13: LER-2013-002 reported on June 13, 2012, a SSFF of the onsite emergency diesel generators due to maintenance on the emergency fuel oil supply line during tagout of the normal fuel oil supply line.

1Q/13: LER-2012-009-00 reported on January 28, 2013, a safety system functional failure due to use of the Rad Bypass switch for steam generator blowdown isolation valves which defeats their automatic isolation for analyzed events. Equipment tag-out were discovered that placed all the SGBD isolation valves in Rad bypass while a moter driven auxiliary feedwater pump was out of service. Condition results in the inability to maintain SG inventory with continuous SGBD during heat sink events.

2Q/12: LER-2012-004 reported a SSFF for one motor driven Auxiliary Feedwater Pump out of service during testing during the time liquid radiation monitor calibration was being performed which results in a Rad Bypass switch position for steam generator (SG)blowdown isolation valves being defeated for automatic isolation for degraded heat sink events. Condition can result in inadequate maintenance of SG inventory.

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)	6.11E-07	5.48E-07	7.71E-08	1.19E-07	1.28E-07	1.16E-07	1.05E-07	2.12E-07
URI (Δ CDF)	-3.00E-06	-2.97E-06	-9.11E-07	-9.27E-07	-8.94E-07	-8.33E-07	-1.16E-06	-2.11E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-06	-2.40E-06	-8.30E-07	-8.10E-07	-7.70E-07	-7.20E-07	-1.10E-06	5.70E-10

Licensee Comments:

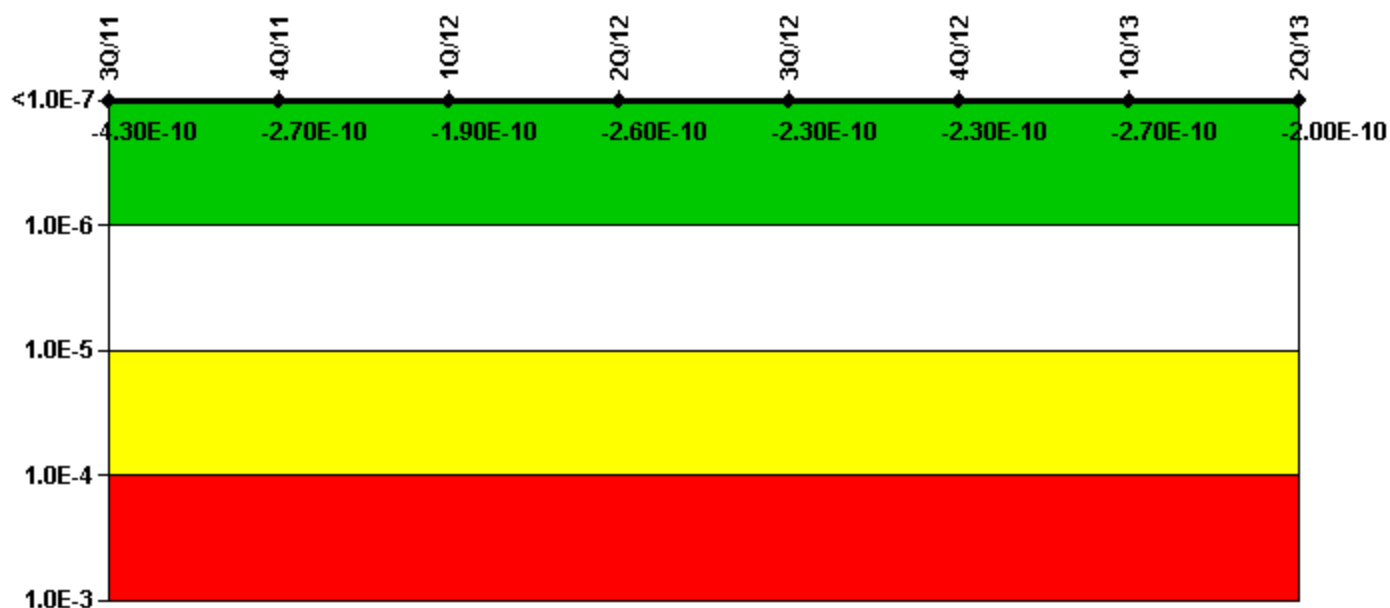
2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

4Q/11: Risk Cap Invoked.

3Q/11: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	-2.03E-10	-2.04E-11	-3.73E-11	-3.65E-11	5.04E-12	1.50E-11	-2.24E-11	6.29E-11
URI (Δ CDF)	-2.31E-10	-2.46E-10	-1.53E-10	-2.20E-10	-2.31E-10	-2.41E-10	-2.48E-10	-2.61E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.30E-10	-2.70E-10	-1.90E-10	-2.60E-10	-2.30E-10	-2.30E-10	-2.70E-10	-2.00E-10

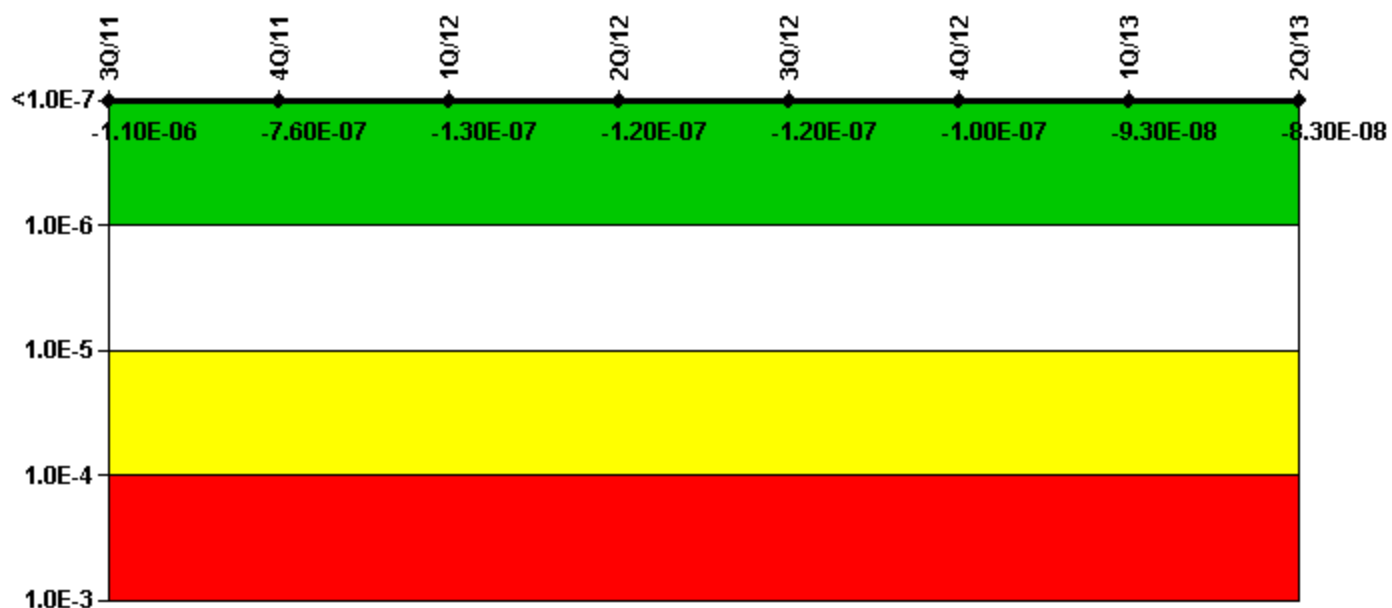
Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

4Q/11: Change to November 2011 planned unavailable hours deleting 10 hours for the 22 SIP breaker inertial latch inspection because unavailability is only counted during periods that the reactor is critical.

Mitigating Systems Performance Index, Heat Removal System



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

Notes

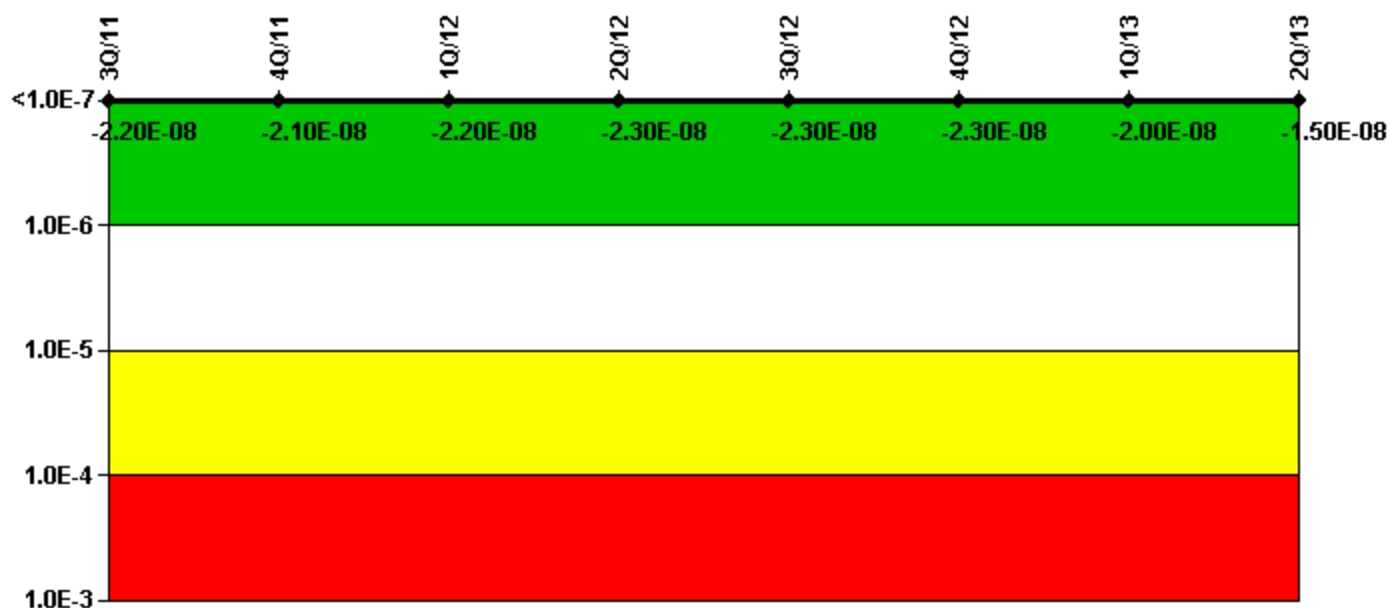
Mitigating Systems Performance Index, Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	-8.04E-08	-1.90E-07	-1.80E-08	-2.19E-08	-2.10E-08	-9.66E-09	-2.41E-08	-2.93E-08
URI (Δ CDF)	-9.76E-07	-5.68E-07	-1.15E-07	-9.75E-08	-9.64E-08	-9.09E-08	-6.87E-08	-5.37E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-06	-7.60E-07	-1.30E-07	-1.20E-07	-1.20E-07	-1.00E-07	-9.30E-08	-8.30E-08

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: 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

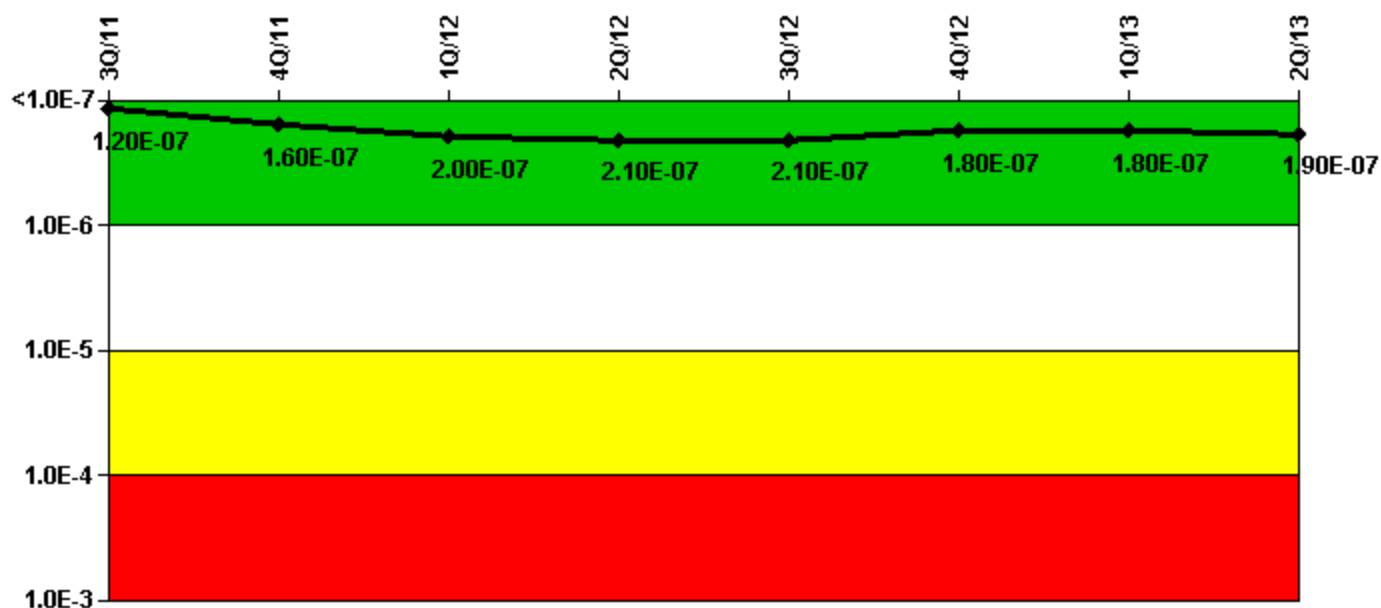
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (Δ CDF)	-1.10E-08	-1.09E-08	-8.82E-09	-8.80E-09	-8.71E-09	-8.67E-09	-8.69E-09	-4.05E-09
URI (Δ CDF)	-1.09E-08	-1.05E-08	-1.36E-08	-1.37E-08	-1.40E-08	-1.41E-08	-1.13E-08	-1.06E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-08	-2.10E-08	-2.20E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.00E-08	-1.50E-08

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

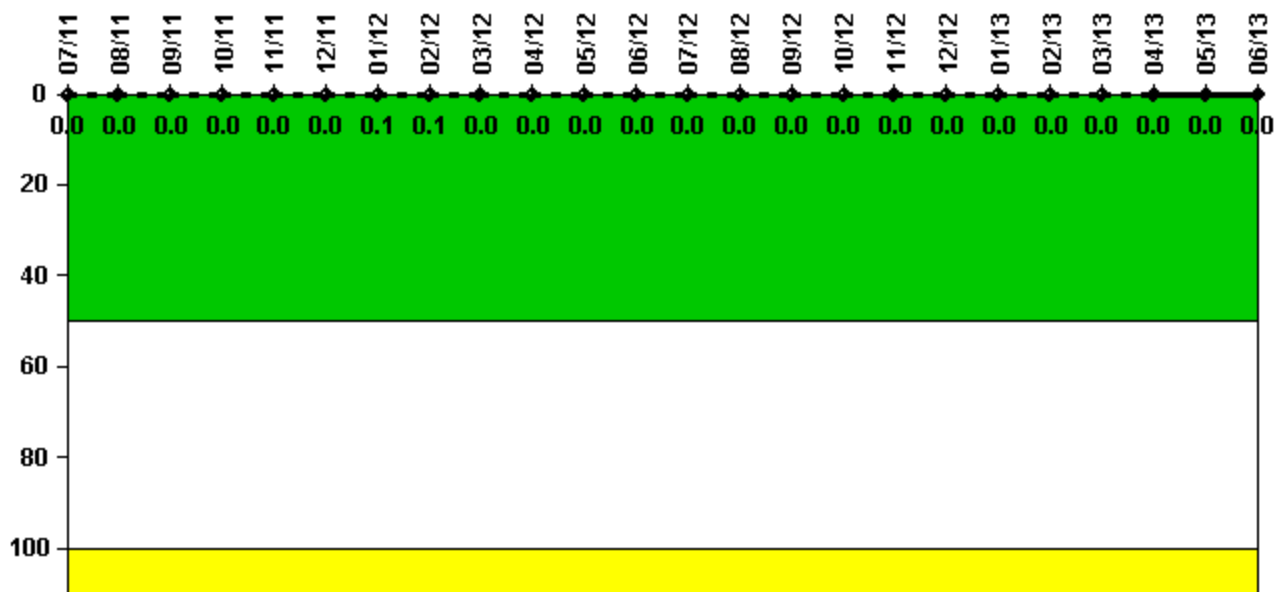
Mitigating Systems Performance Index, Cooling Water Systems	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (ΔCDF)	7.49E-08	7.59E-08	2.06E-08	2.10E-08	2.04E-08	5.13E-09	5.22E-09	4.90E-09
URI (ΔCDF)	4.59E-08	8.02E-08	1.76E-07	1.90E-07	1.88E-07	1.77E-07	1.79E-07	1.81E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.20E-07	1.60E-07	2.00E-07	2.10E-07	2.10E-07	1.80E-07	1.80E-07	1.90E-07

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

Reactor Coolant System Activity



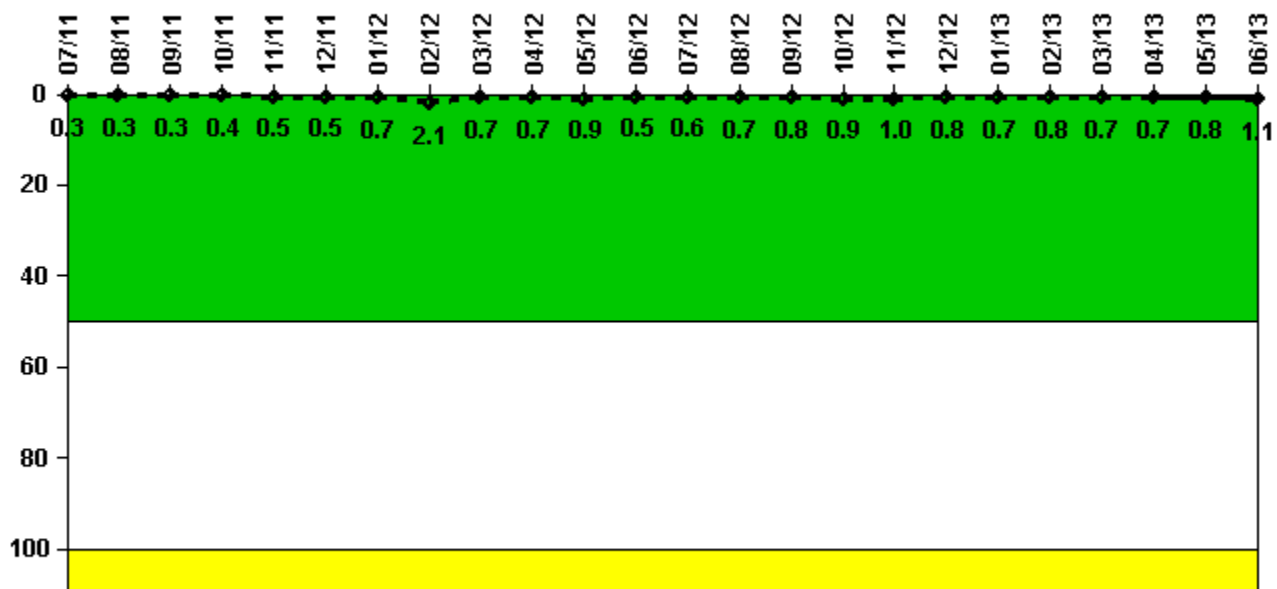
Thresholds: White > 50.0 Yellow > 100.0

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	0.000446	0.000450	0.000474	0.000472	0.000467	0.000476	0.000500	0.000509	0.000459	0.000198	0.000189	0.000187
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0.1	0.1	0	0	0	0
Reactor Coolant System Activity	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum activity	0.000196	0.000215	0.000217	0.000234	0.000218	0.000232	0.000244	0.000267	0.000246	0.000247	0.000280	0.000239
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



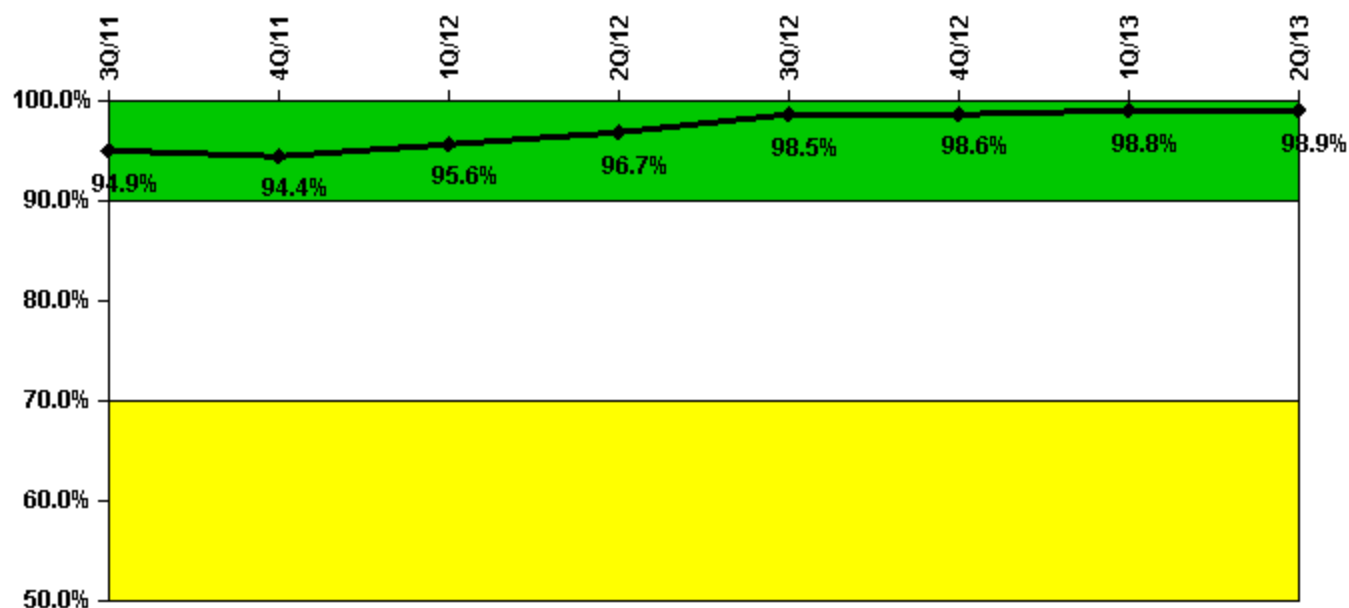
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.030	0.030	0.030	0.040	0.050	0.050	0.070	0.210	0.070	0.070	0.090	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.3	0.3	0.3	0.4	0.5	0.5	0.7	2.1	0.7	0.7	0.9	0.5
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	0.060	0.070	0.080	0.090	0.100	0.080	0.070	0.080	0.070	0.073	0.080	0.110
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.6	0.7	0.8	0.9	1.0	0.8	0.7	0.8	0.7	0.7	0.8	1.1

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

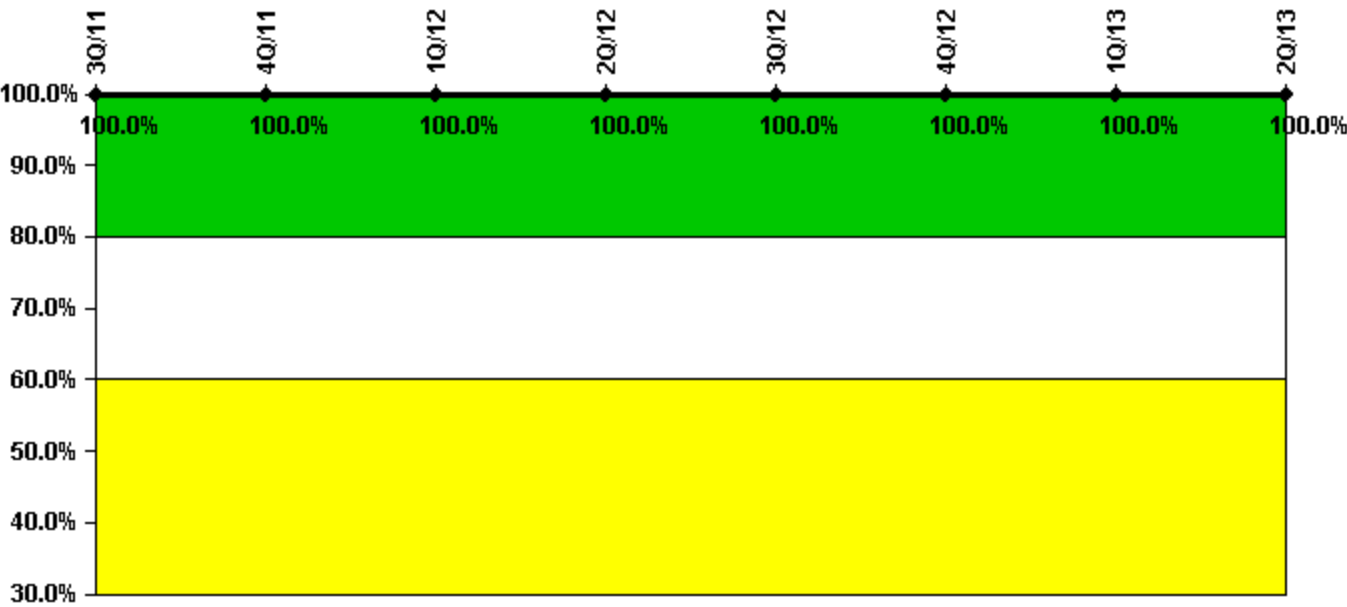
Notes

Drill/Exercise Performance	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful opportunities	143.0	14.0	131.0	289.0	374.0	266.0	101.0	298.0
Total opportunities	151.0	16.0	131.0	293.0	374.0	269.0	101.0	299.0
Indicator value	94.9%	94.4%	95.6%	96.7%	98.5%	98.6%	98.8%	98.9%

Licensee Comments:

4Q/12: Change to the November 2012 Shift Manager/control Room supervisor training events from 112/113 to 116/117.

ERO Drill Participation



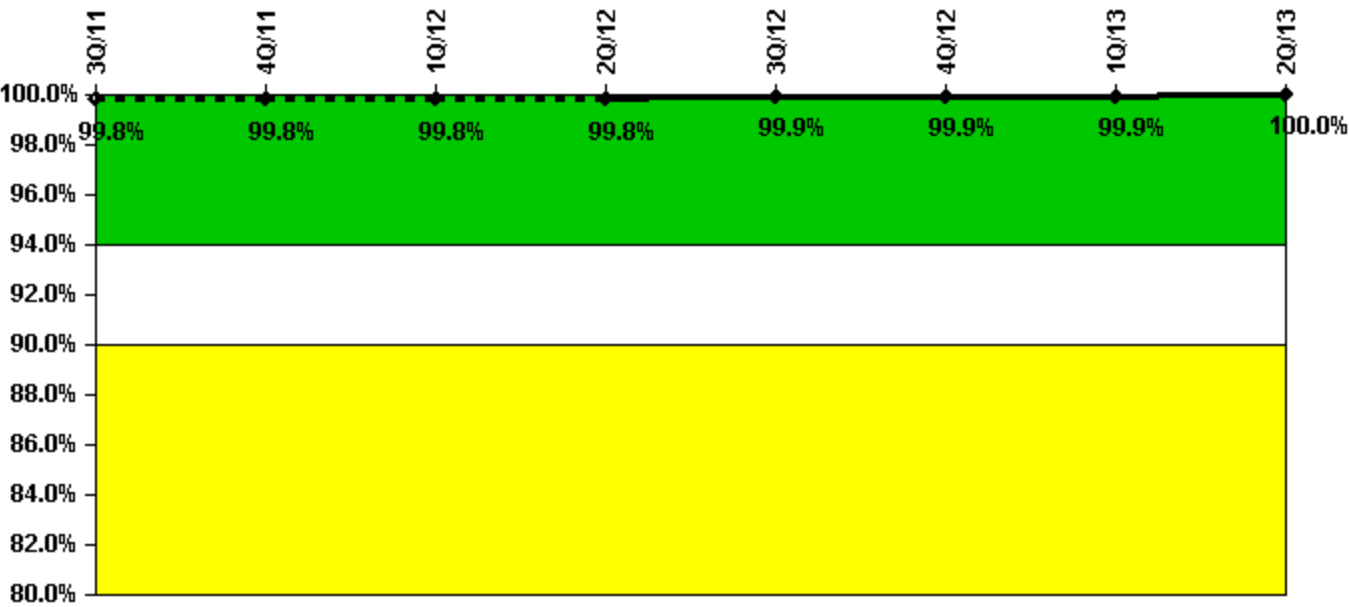
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Participating Key personnel	105.0	104.0	106.0	105.0	106.0	104.0	106.0	104.0
Total Key personnel	105.0	104.0	106.0	105.0	106.0	104.0	106.0	104.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



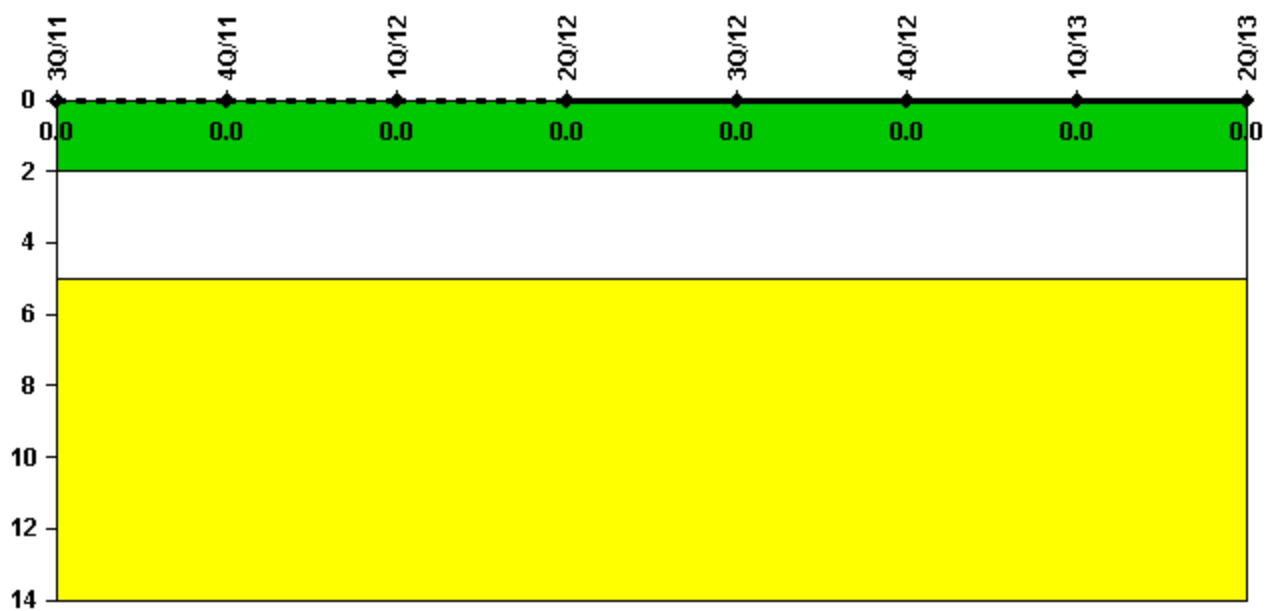
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful siren-tests	1201	993	956	787	1415	577	1015	1077
Total sirens-tests	1204	996	957	789	1415	577	1015	1077
Indicator value	99.8%	99.8%	99.8%	99.8%	99.9%	99.9%	99.9%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



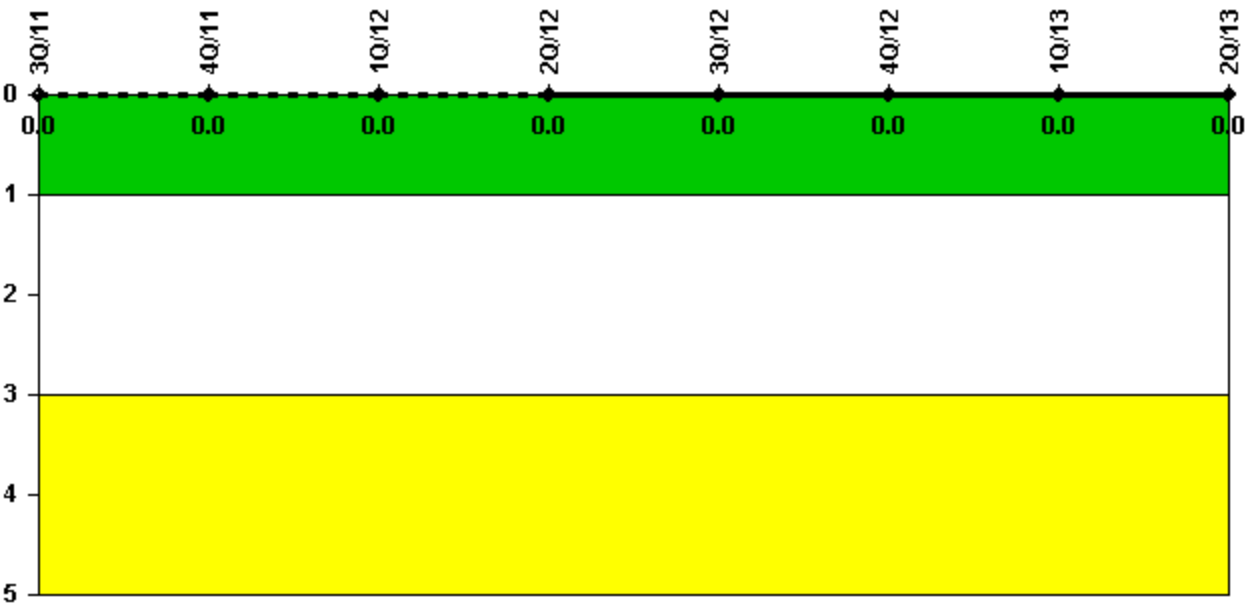
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

Last Modified: August 19, 2013

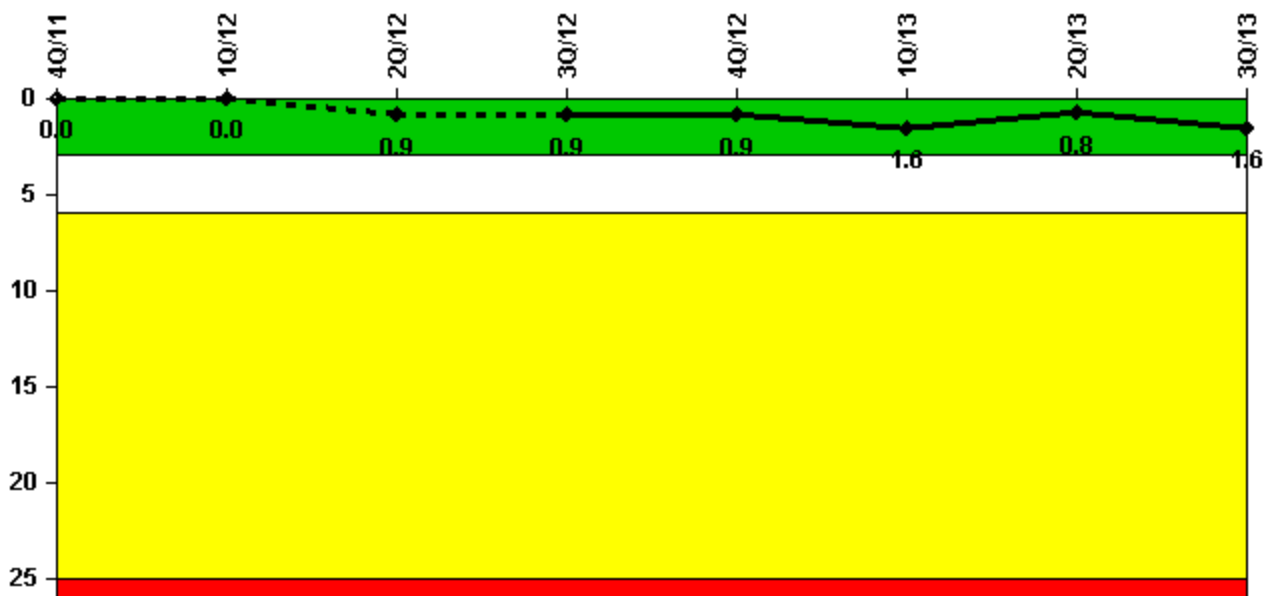
Indian Point 2

3Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

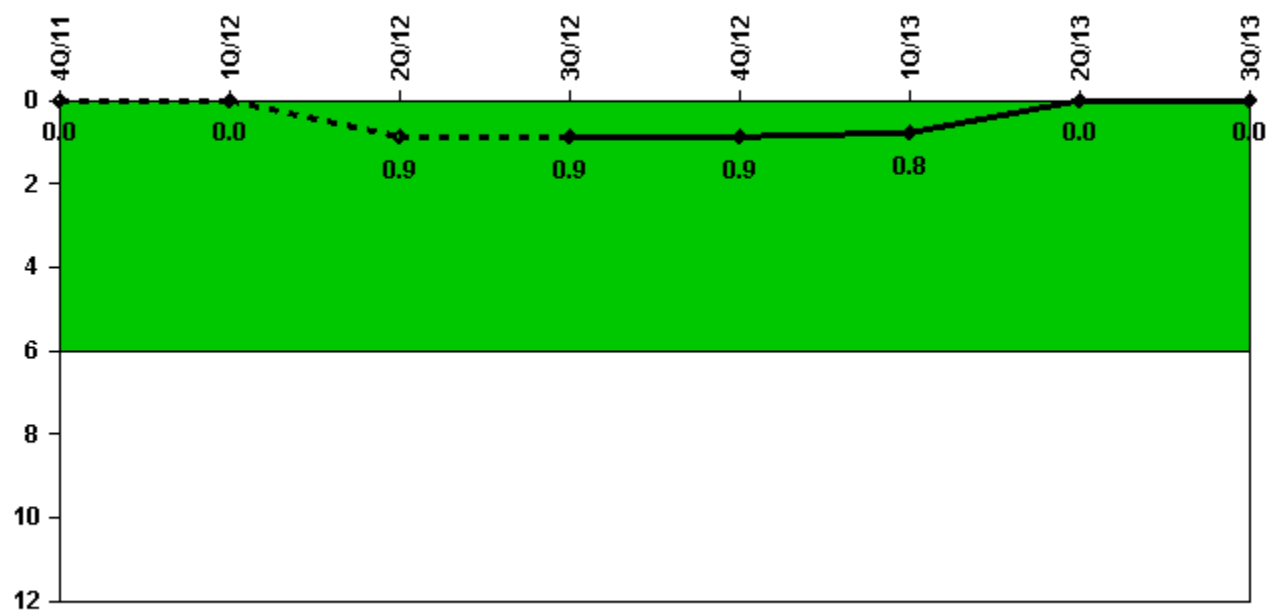
Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned scrams	0	0	1.0	0	0	1.0	0	1.0
Critical hours	2209.0	1368.1	2154.6	2208.0	2209.0	2107.1	2184.0	2189.3
Indicator value	0	0	0.9	0.9	0.9	1.6	0.8	1.6

Licensee Comments:

1Q/13: LER-2013-001 reported on April 15, 2013, a manual reator trip on February 13, 2013, due to decreasing steam generator levels as a result of the trip of both heater drain tank pumps during AOV diagnostics testing.

Unplanned Power Changes per 7000 Critical Hrs



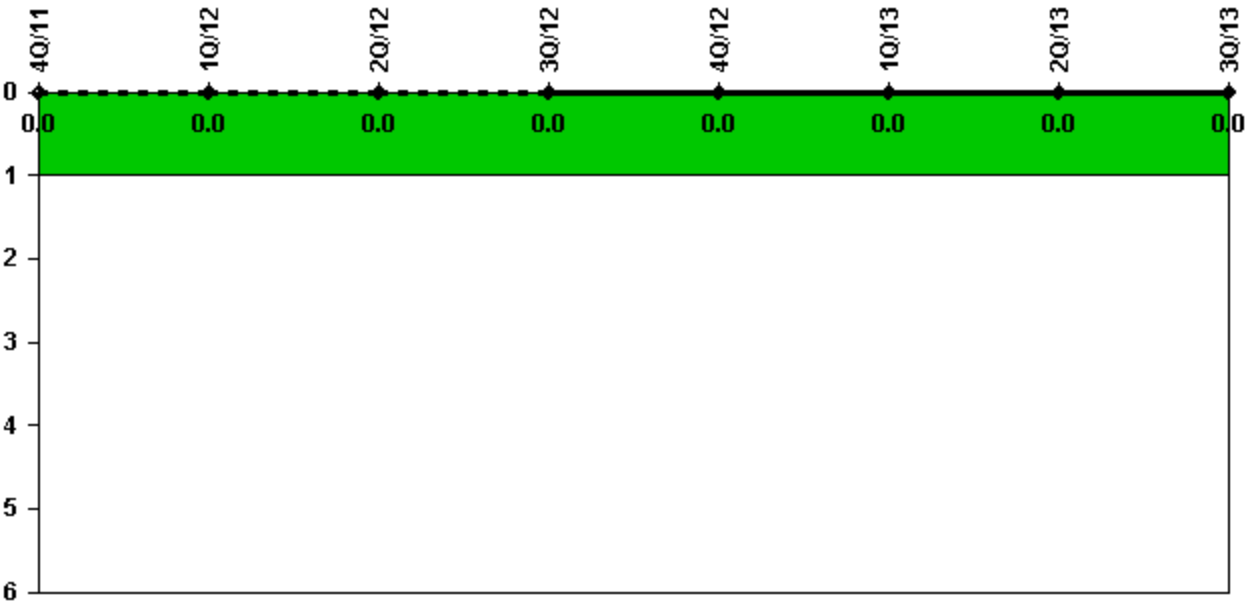
Thresholds: White > 6.0

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	1.0	0	0	0	0	0
Critical hours	2209.0	1368.1	2154.6	2208.0	2209.0	2107.1	2184.0	2189.3
Indicator value	0	0	0.9	0.9	0.9	0.8	0	0

Licensee Comments: none

Unplanned Scrams with Complications



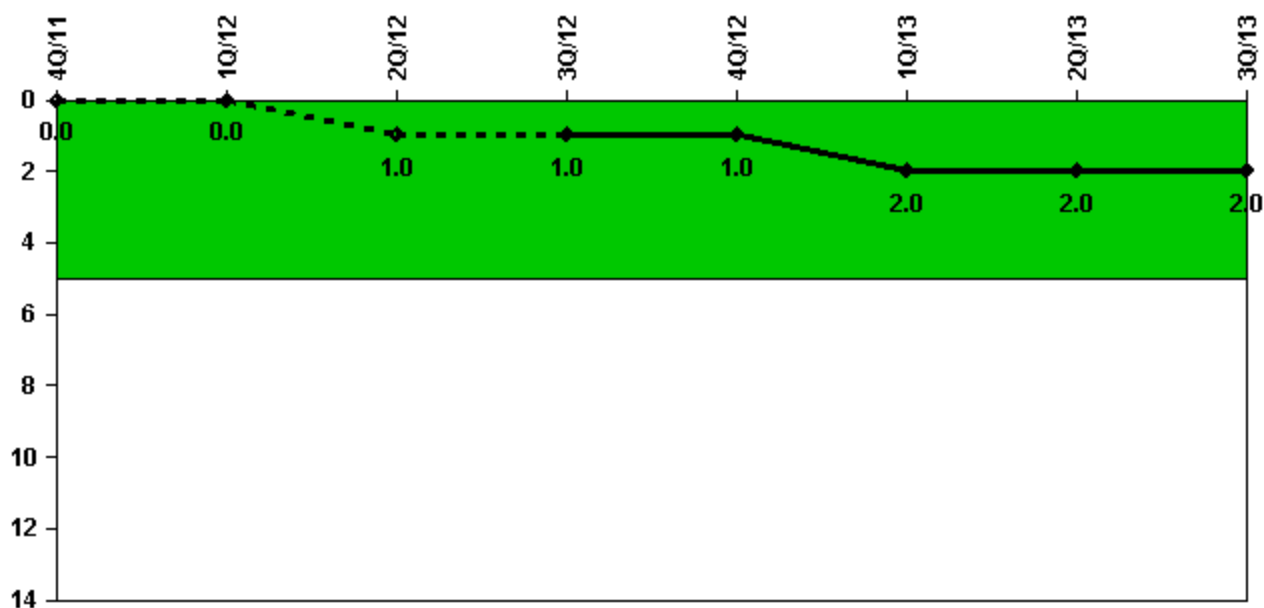
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	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/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Safety System Functional Failures	0	0	1	0	0	1	1	0
Indicator value	0	0	1	1	1	2	2	2

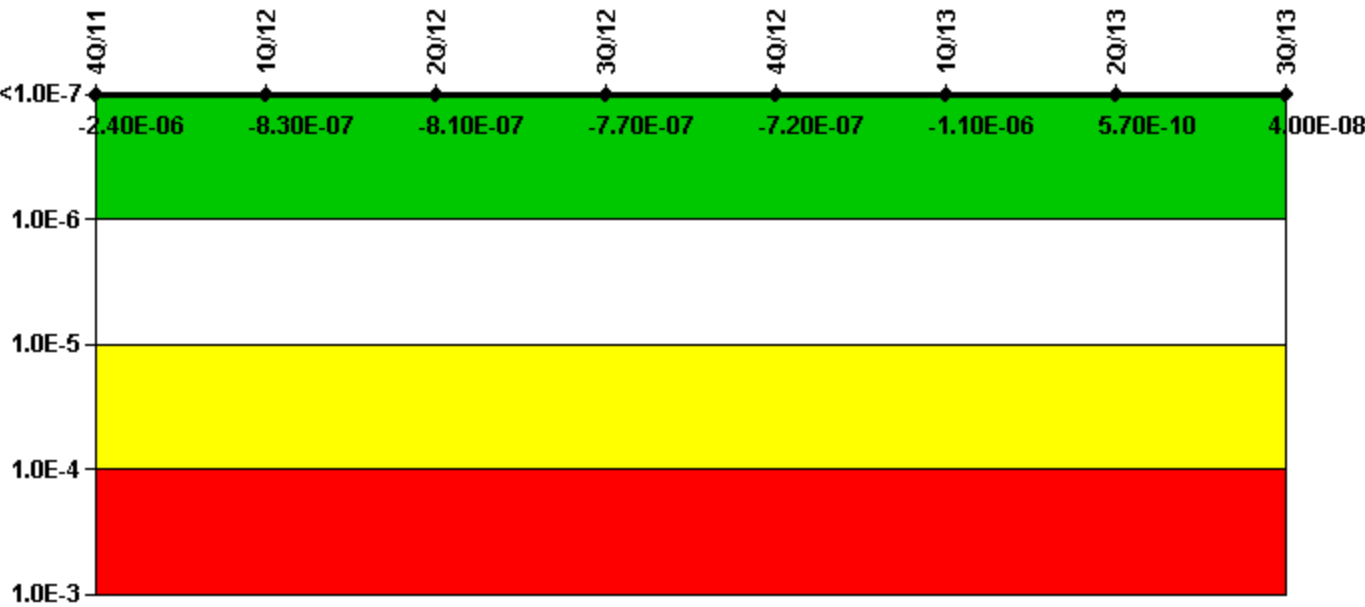
Licensee Comments:

2Q/13: LER-2013-002 reported on June 13, 2012, a SSFF of the onsite emergency diesel generators due to maintenance on the emergency fuel oil supply line during tagout of the normal fuel oil supply line.

1Q/13: LER-2012-009-00 reported on January 28, 2013, a safety system functional failure due to use of the Rad Bypass switch for steam generator blowdown isolation valves which defeats their automatic isolation for analyzed events. Equipment tag-out were discovered that placed all the SGBD isolation valves in Rad bypass while a moter driven auxiliary feedwater pump was out of service. Condition results in the inability to maintain SG inventory with continuous SGBD during heat sink events.

2Q/12: LER-2012-004 reported a SSFF for one motor driven Auxiliary Feedwater Pump out of service during testing during the time liquid radiation monitor calibration was being performed which results in a Rad Bypass switch position for steam generator (SG)blowdown isolation valves being defeated for automatic isolation for degraded heat sink events. Condition can result in inadequate maintenance of SG inventory.

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (ΔCDF)	5.48E-07	7.71E-08	1.19E-07	1.28E-07	1.16E-07	1.05E-07	2.12E-07	2.29E-07
URI (ΔCDF)	-2.97E-06	-9.11E-07	-9.27E-07	-8.94E-07	-8.33E-07	-1.16E-06	-2.11E-07	-1.89E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-06	-8.30E-07	-8.10E-07	-7.70E-07	-7.20E-07	-1.10E-06	5.70E-10	4.00E-08

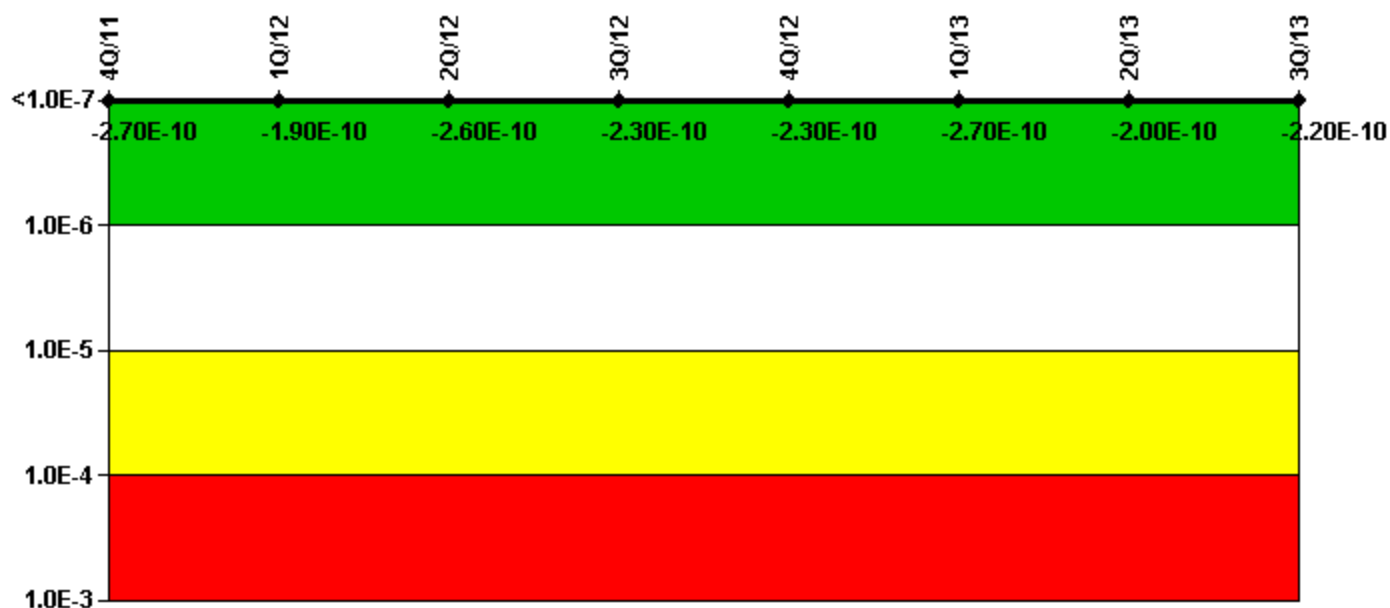
Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

4Q/11: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (Δ CDF)	-2.04E-11	-3.73E-11	-3.65E-11	5.04E-12	1.50E-11	-2.24E-11	6.29E-11	5.22E-11
URI (Δ CDF)	-2.46E-10	-1.53E-10	-2.20E-10	-2.31E-10	-2.41E-10	-2.48E-10	-2.61E-10	-2.71E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.70E-10	-1.90E-10	-2.60E-10	-2.30E-10	-2.30E-10	-2.70E-10	-2.00E-10	-2.20E-10

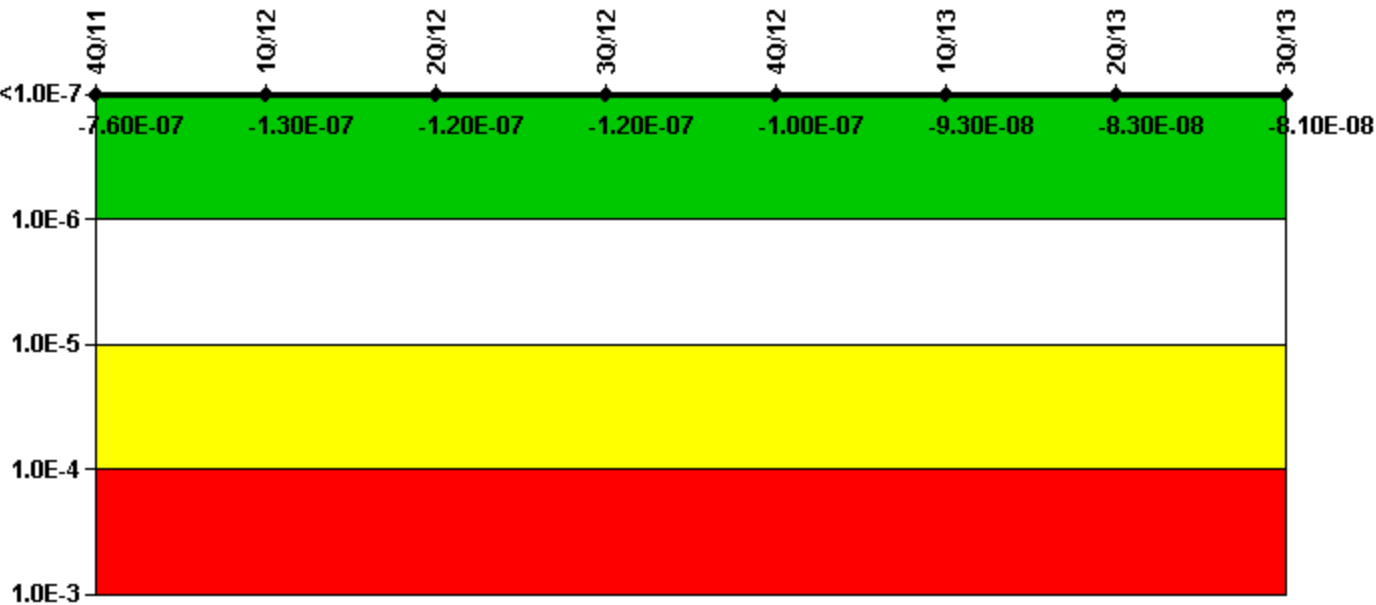
Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

4Q/11: Change to November 2011 planned unavailable hours deleting 10 hours for the 22 SIP breaker inertial latch inspection because unavailability is only counted during periods that the reactor is critical.

Mitigating Systems Performance Index, Heat Removal System



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

Notes

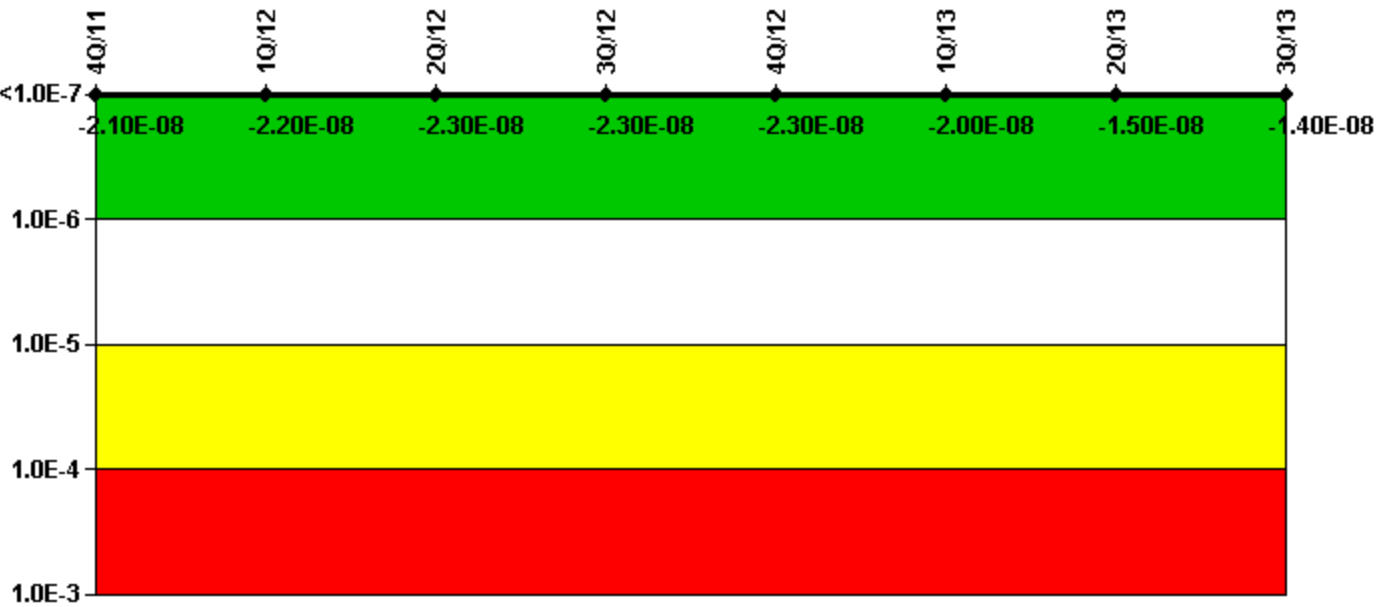
Mitigating Systems Performance Index, Heat Removal System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (ΔCDF)	-1.90E-07	-1.80E-08	-2.19E-08	-2.10E-08	-9.66E-09	-2.41E-08	-2.93E-08	-2.99E-08
URI (ΔCDF)	-5.68E-07	-1.15E-07	-9.75E-08	-9.64E-08	-9.09E-08	-6.87E-08	-5.37E-08	-5.07E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.60E-07	-1.30E-07	-1.20E-07	-1.20E-07	-1.00E-07	-9.30E-08	-8.30E-08	-8.10E-08

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: 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

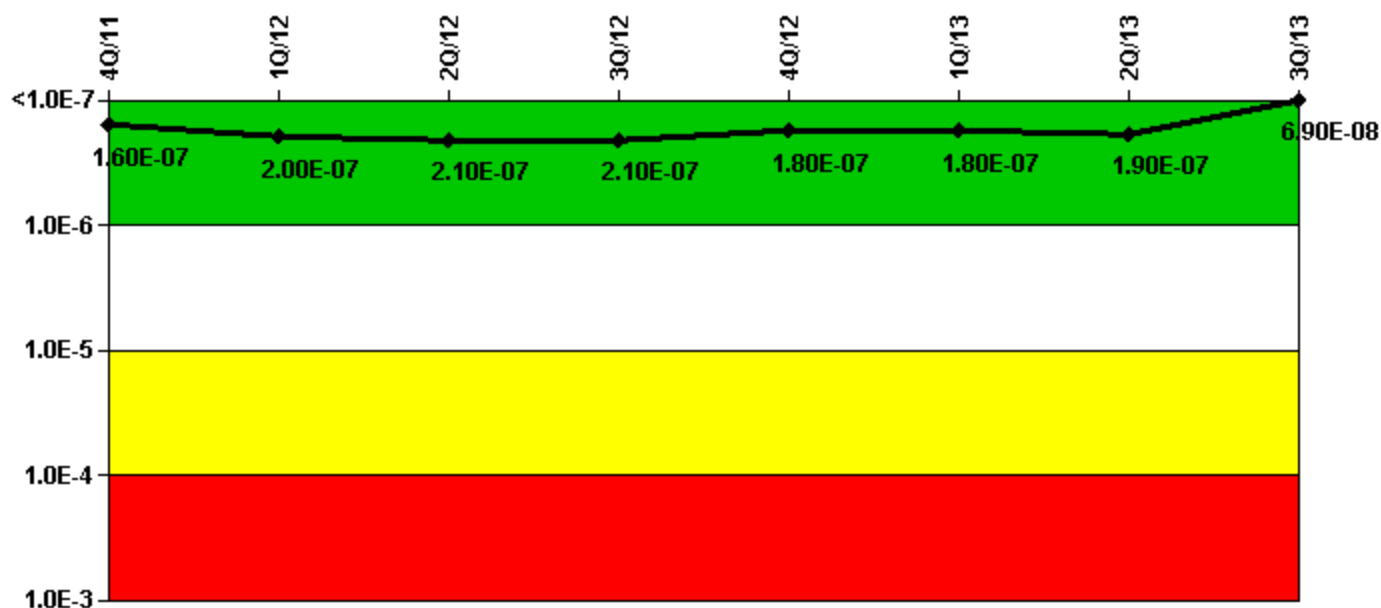
Mitigating Systems Performance Index, Residual Heat Removal System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (ΔCDF)	-1.09E-08	-8.82E-09	-8.80E-09	-8.71E-09	-8.67E-09	-8.69E-09	-4.05E-09	-4.17E-09
URI (ΔCDF)	-1.05E-08	-1.36E-08	-1.37E-08	-1.40E-08	-1.41E-08	-1.13E-08	-1.06E-08	-9.89E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.10E-08	-2.20E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.00E-08	-1.50E-08	-1.40E-08

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

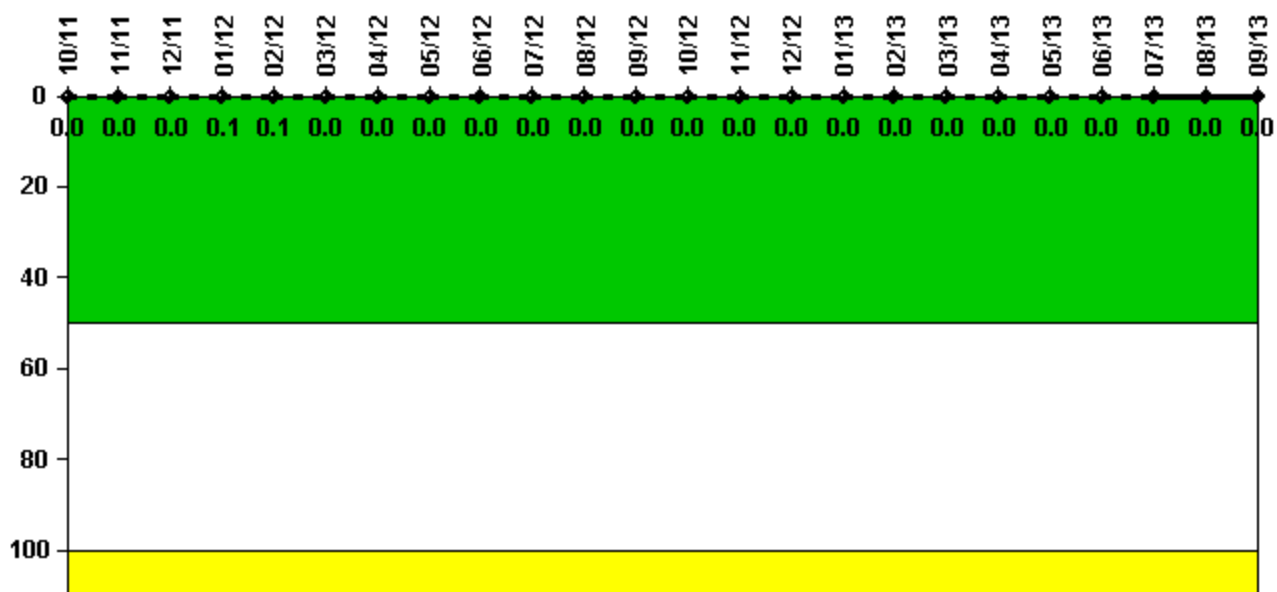
Mitigating Systems Performance Index, Cooling Water Systems	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
UAI (ΔCDF)	7.59E-08	2.06E-08	2.10E-08	2.04E-08	5.13E-09	5.22E-09	4.90E-09	2.65E-09
URI (ΔCDF)	8.02E-08	1.76E-07	1.90E-07	1.88E-07	1.77E-07	1.79E-07	1.81E-07	6.67E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.60E-07	2.00E-07	2.10E-07	2.10E-07	1.80E-07	1.80E-07	1.90E-07	6.90E-08

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

Reactor Coolant System Activity



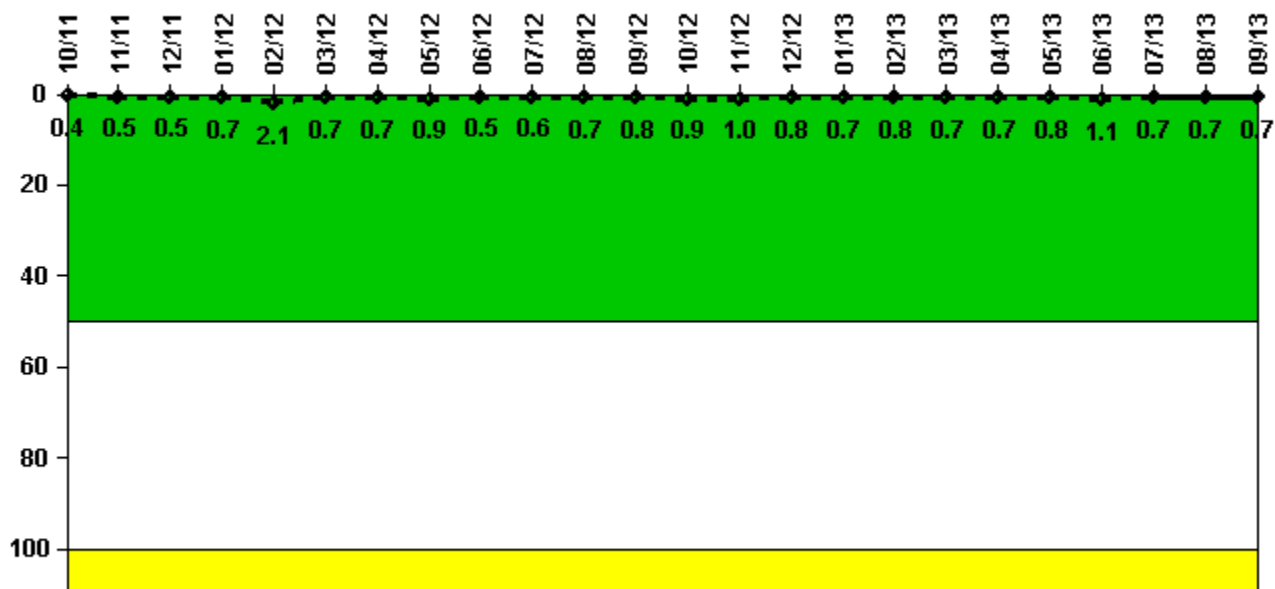
Thresholds: White > 50.0 Yellow > 100.0

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	0.000472	0.000467	0.000476	0.000500	0.000509	0.000459	0.000198	0.000189	0.000187	0.000196	0.000215	0.000217
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0.1	0.1	0	0	0	0	0	0	0
Reactor Coolant System Activity	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum activity	0.000234	0.000218	0.000232	0.000244	0.000267	0.000246	0.000247	0.000280	0.000239	0.000258	0.000239	0.000204
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



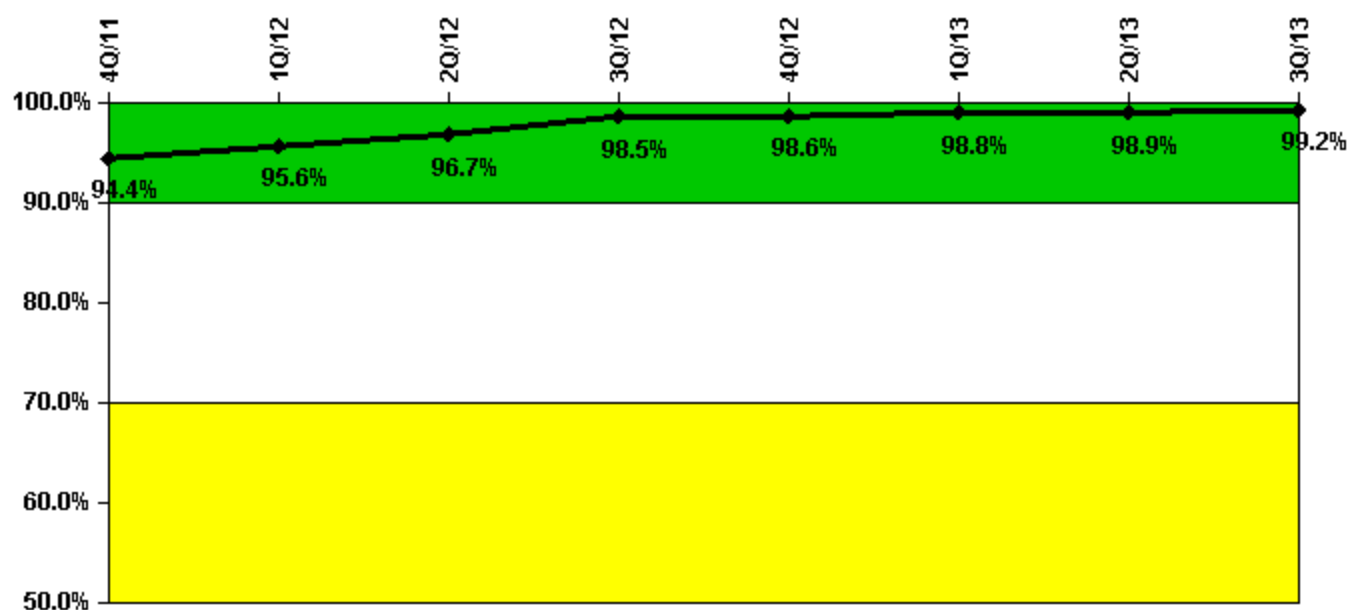
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum leakage	0.040	0.050	0.050	0.070	0.210	0.070	0.070	0.090	0.050	0.060	0.070	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.4	0.5	0.5	0.7	2.1	0.7	0.7	0.9	0.5	0.6	0.7	0.8
Reactor Coolant System Leakage	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum leakage	0.090	0.100	0.080	0.070	0.080	0.070	0.073	0.080	0.110	0.071	0.070	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.9	1.0	0.8	0.7	0.8	0.7	0.7	0.8	1.1	0.7	0.7	0.7

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

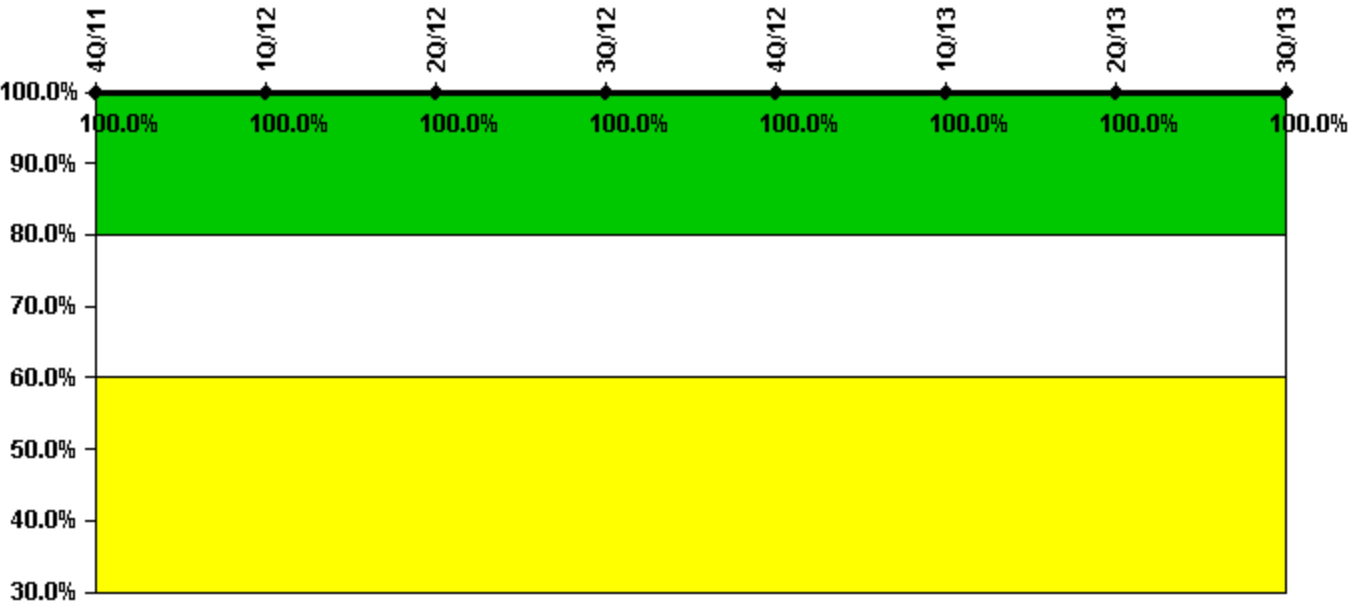
Notes

Drill/Exercise Performance	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful opportunities	14.0	131.0	289.0	374.0	266.0	101.0	298.0	279.0
Total opportunities	16.0	131.0	293.0	374.0	269.0	101.0	299.0	284.0
Indicator value	94.4%	95.6%	96.7%	98.5%	98.6%	98.8%	98.9%	99.2%

Licensee Comments:

4Q/12: Change to the November 2012 Shift Manager/control Room supervisor training events from 112/113 to 116/117.

ERO Drill Participation



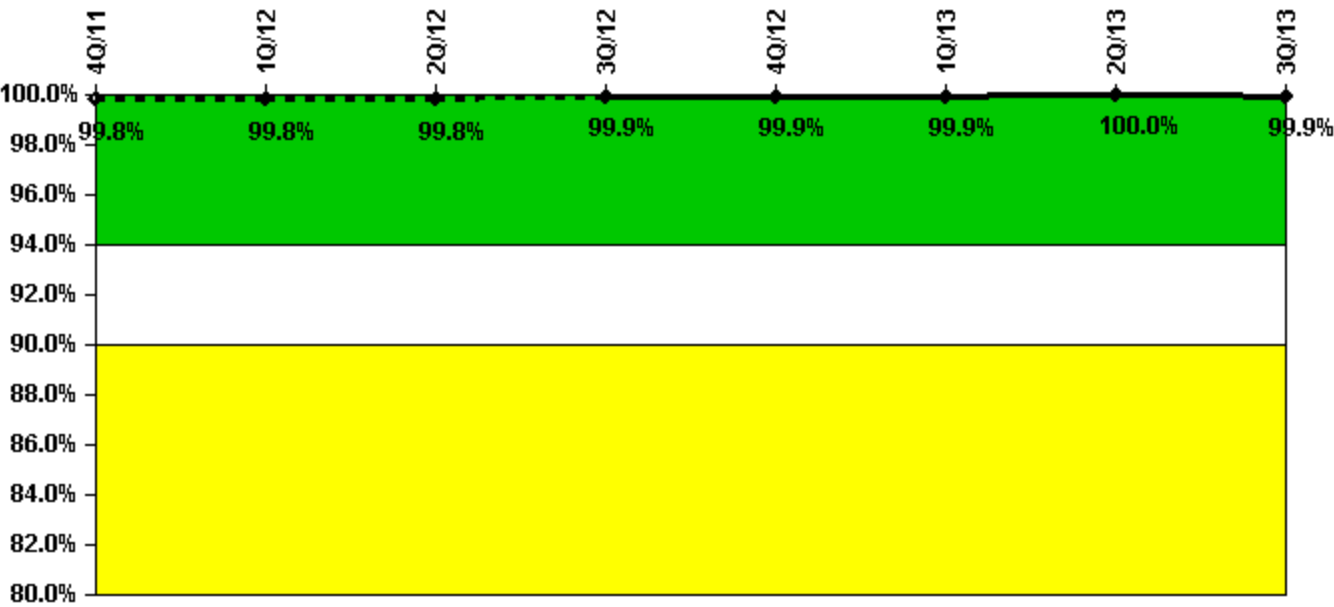
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Participating Key personnel	104.0	106.0	105.0	106.0	104.0	106.0	104.0	109.0
Total Key personnel	104.0	106.0	105.0	106.0	104.0	106.0	104.0	109.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



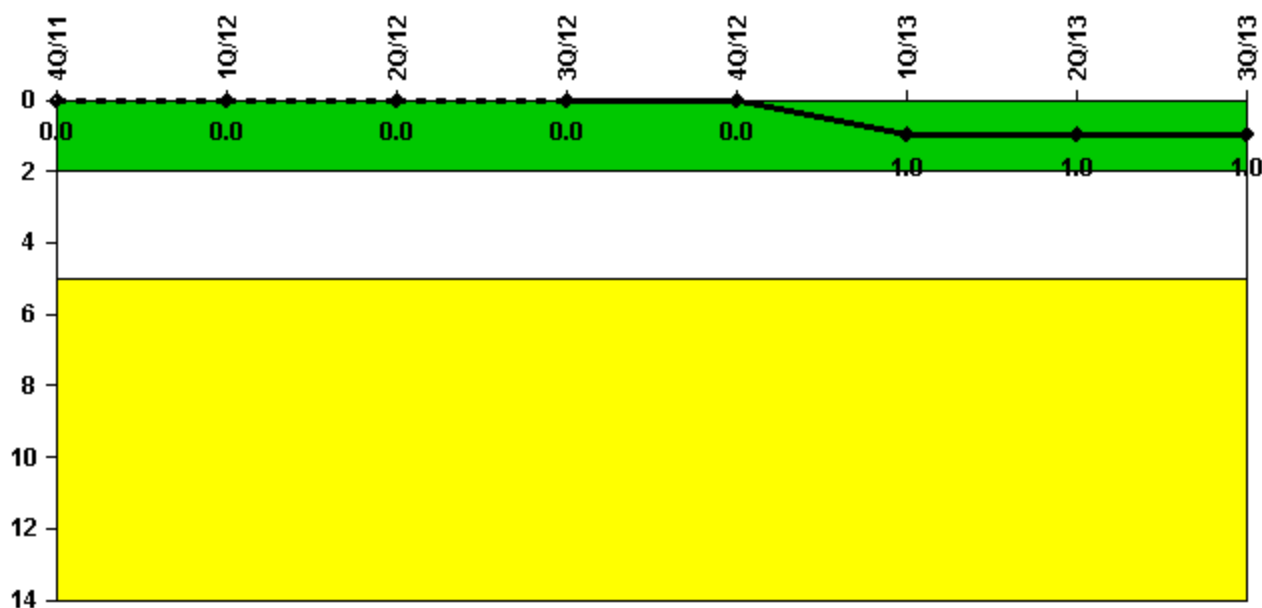
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful siren-tests	993	956	787	1415	577	1015	1077	936
Total sirens-tests	996	957	789	1415	577	1015	1077	938
Indicator value	99.8%	99.8%	99.8%	99.9%	99.9%	99.9%	100.0%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

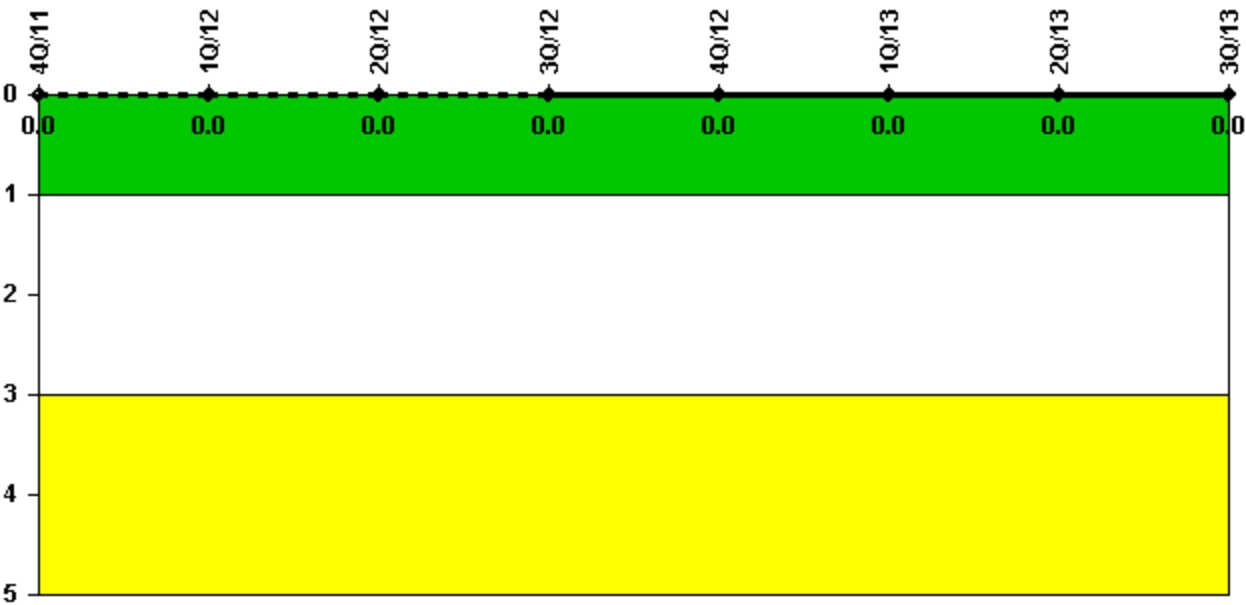
Notes

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	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:

1Q/13: Per reporting guidelines of NEI 99-02 recorded a count at unit 2 for an event at unit 3 where following shutdown for refueling outage 3R17 workers re-entered containment without an RP escort while the containment was posted as a locked high radiation area in non-compliance with RWP-2013-3028.

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

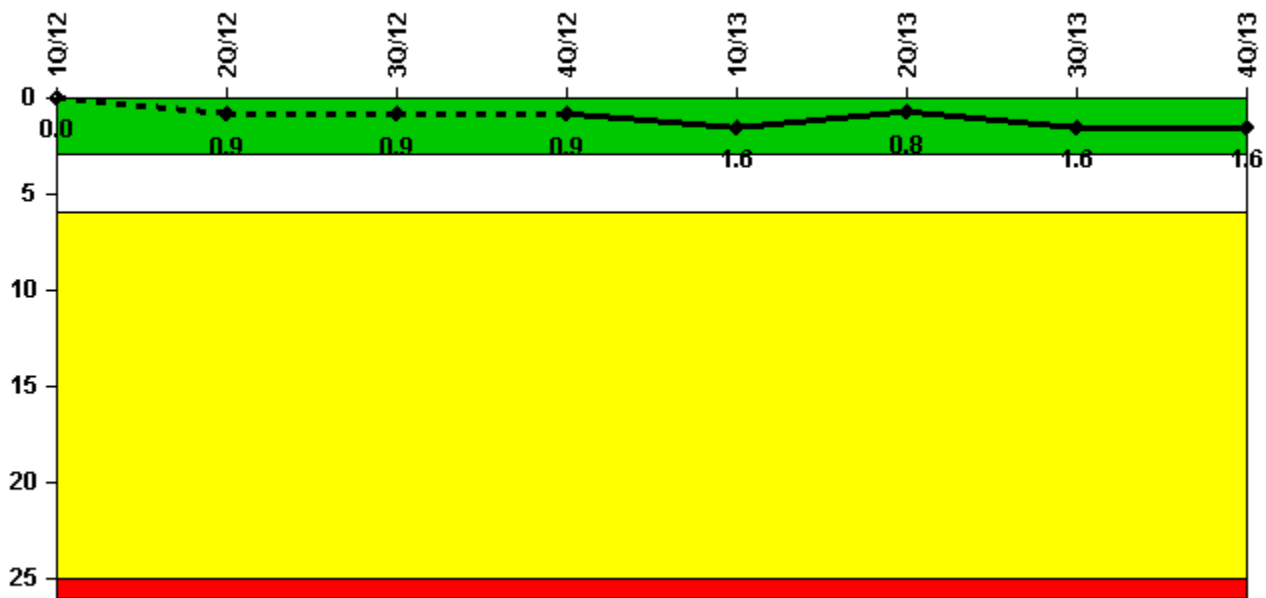
Indian Point 2

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: Change to reflect final count of last day of quarter licensed operator simulator training results

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

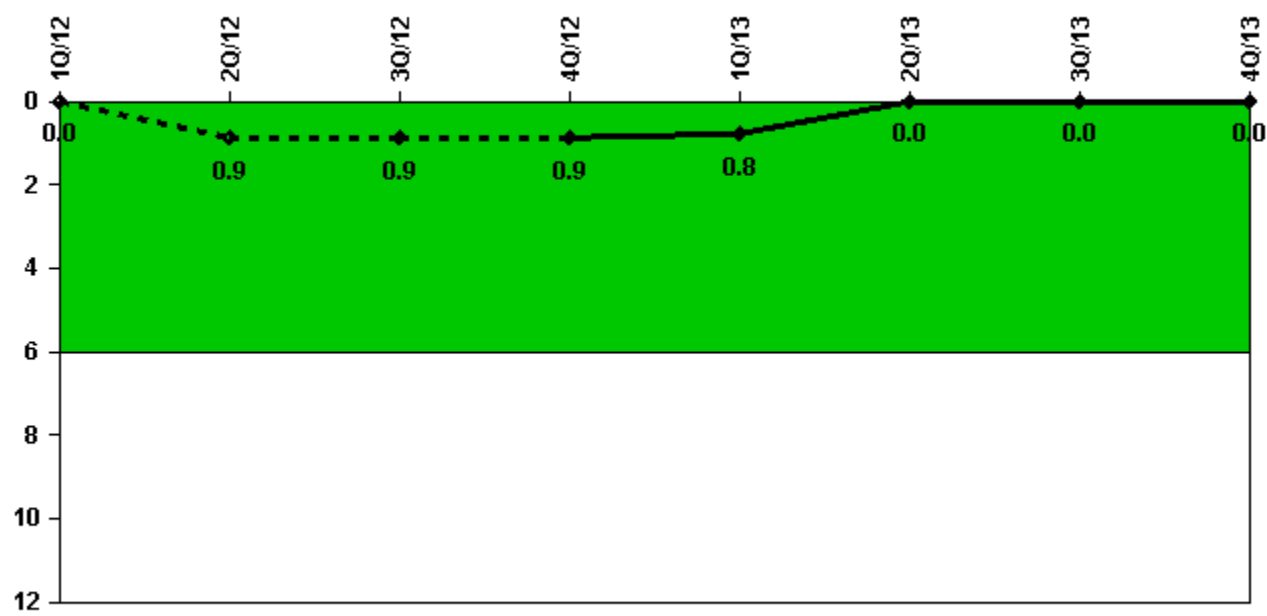
Notes

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	1.0	0	0	1.0	0	1.0	0
Critical hours	1368.1	2154.6	2208.0	2209.0	2107.1	2184.0	2189.3	2209.0
Indicator value	0	0.9	0.9	0.9	1.6	0.8	1.6	1.6

Licensee Comments:

1Q/13: LER-2013-001 reported on April 15, 2013, a manual reactor trip on February 13, 2013, due to decreasing steam generator levels as a result of the trip of both heater drain tank pumps during AOV diagnostics testing.

Unplanned Power Changes per 7000 Critical Hrs



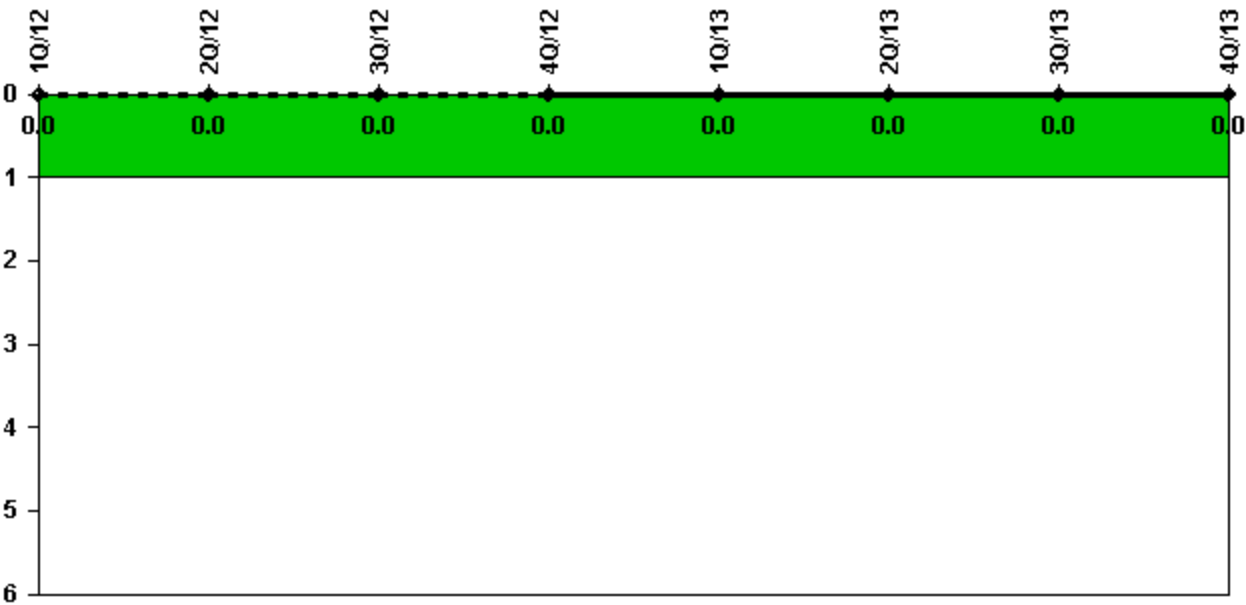
Thresholds: White > 6.0

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	1.0	0	0	0	0	0	0
Critical hours	1368.1	2154.6	2208.0	2209.0	2107.1	2184.0	2189.3	2209.0
Indicator value	0	0.9	0.9	0.9	0.8	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



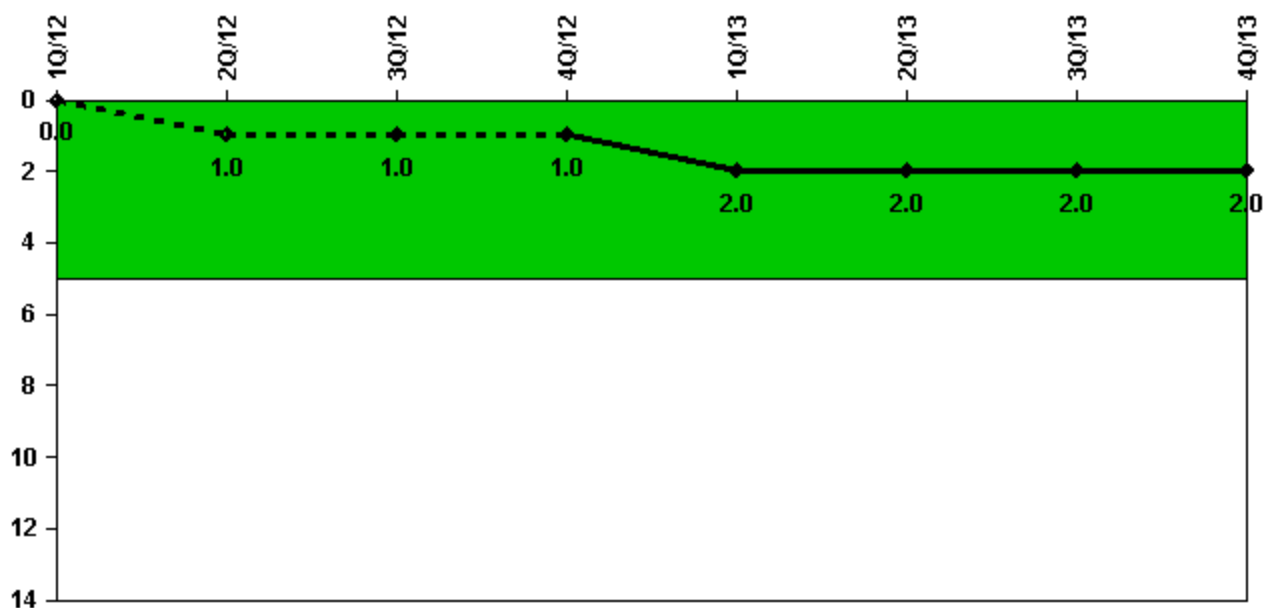
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	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/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Safety System Functional Failures	0	1	0	0	1	1	0	0
Indicator value	0	1	1	1	2	2	2	2

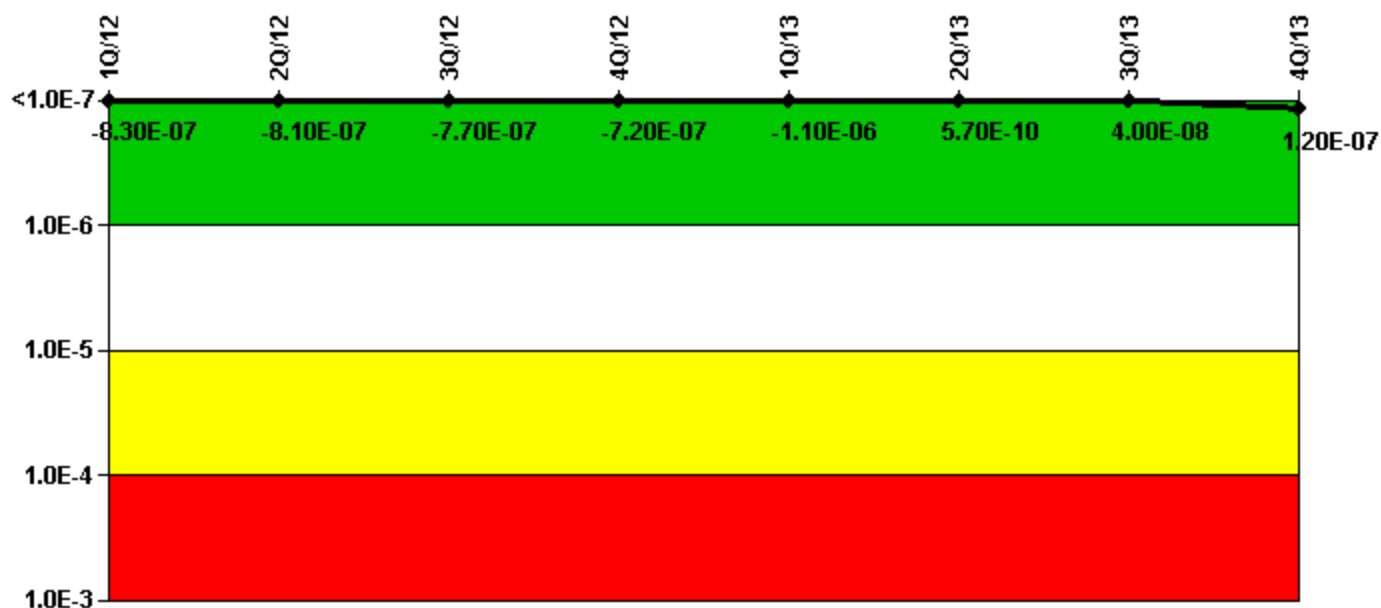
Licensee Comments:

2Q/13: LER-2013-002 reported on June 13, 2012, a SSFF of the onsite emergency diesel generators due to maintenance on the emergency fuel oil supply line during tagout of the normal fuel oil supply line.

1Q/13: LER-2012-009-00 reported on January 28, 2013, a safety system functional failure due to use of the Rad Bypass switch for steam generator blowdown isolation valves which defeats their automatic isolation for analyzed events. Equipment tag-out were discovered that placed all the SGBD isolation valves in Rad bypass while a moter driven auxiliary feedwater pump was out of service. Condition results in the inability to maintain SG inventory with continuous SGBD during heat sink events.

2Q/12: LER-2012-004 reported a SSFF for one motor driven Auxiliary Feedwater Pump out of service during testing during the time liquid radiation monitor calibration was being performed which results in a Rad Bypass switch position for steam generator (SG)blowdown isolation valves being defeated for automatic isolation for degraded heat sink events. Condition can result in inadequate maintenance of SG inventory.

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

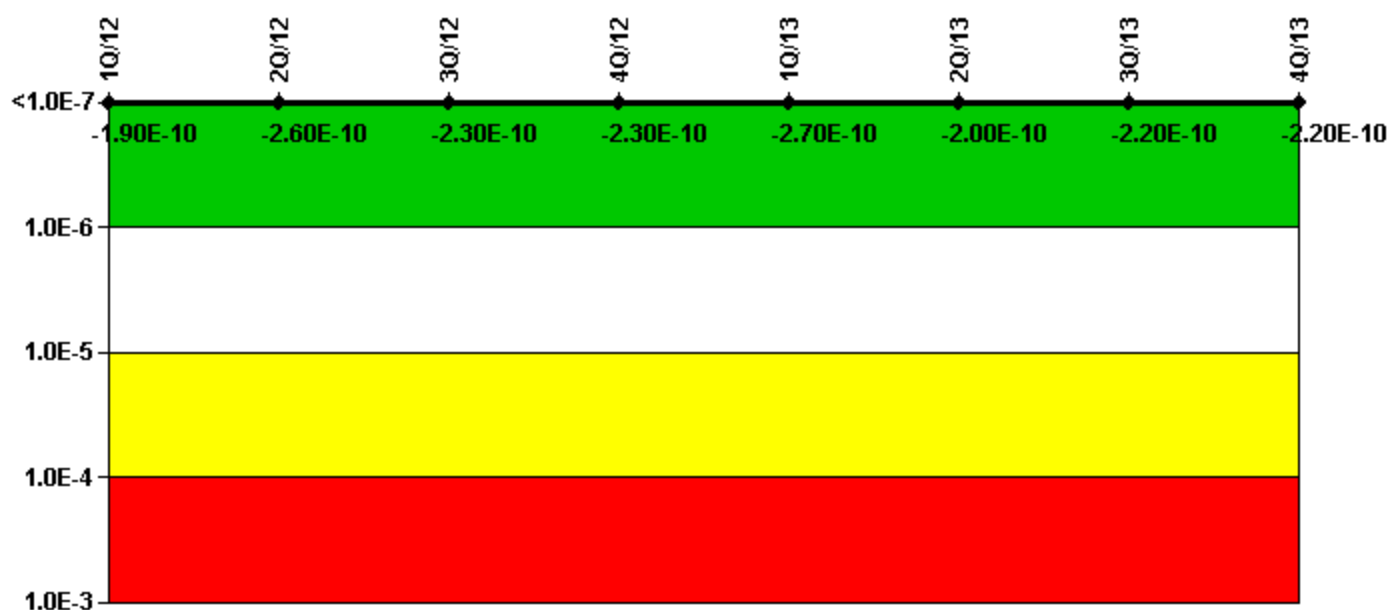
Mitigating Systems Performance Index, Emergency AC Power System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	7.71E-08	1.19E-07	1.28E-07	1.16E-07	1.05E-07	2.12E-07	2.29E-07	2.80E-07
URI (Δ CDF)	-9.11E-07	-9.27E-07	-8.94E-07	-8.33E-07	-1.16E-06	-2.11E-07	-1.89E-07	-1.59E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.30E-07	-8.10E-07	-7.70E-07	-7.20E-07	-1.10E-06	5.70E-10	4.00E-08	1.20E-07

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: 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

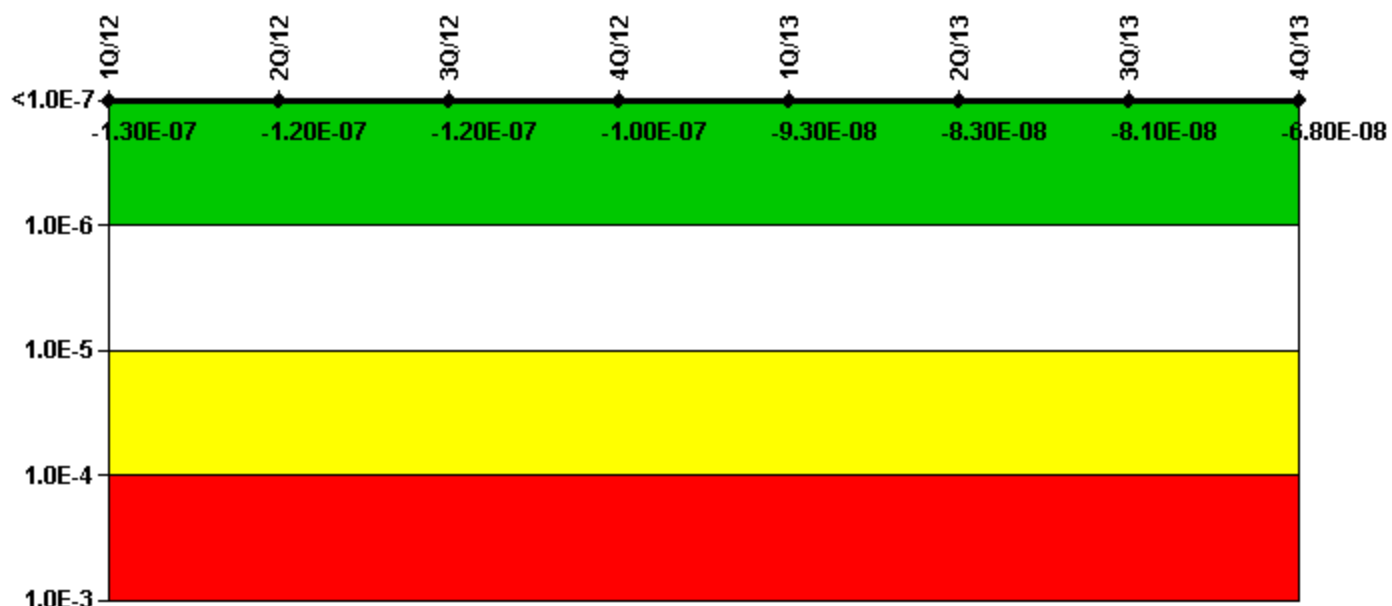
Mitigating Systems Performance Index, High Pressure Injection System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-3.73E-11	-3.65E-11	5.04E-12	1.50E-11	-2.24E-11	6.29E-11	5.22E-11	5.76E-11
URI (Δ CDF)	-1.53E-10	-2.20E-10	-2.31E-10	-2.41E-10	-2.48E-10	-2.61E-10	-2.71E-10	-2.78E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-10	-2.60E-10	-2.30E-10	-2.30E-10	-2.70E-10	-2.00E-10	-2.20E-10	-2.20E-10

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: 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

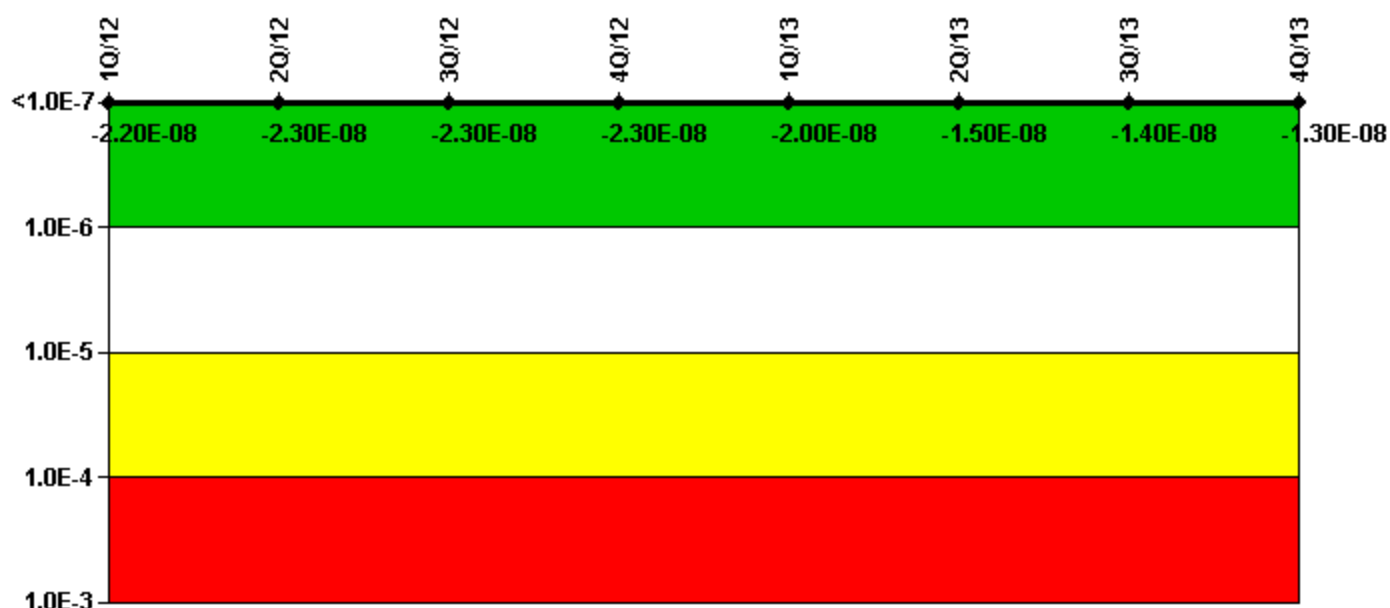
Mitigating Systems Performance Index, Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-1.80E-08	-2.19E-08	-2.10E-08	-9.66E-09	-2.41E-08	-2.93E-08	-2.99E-08	-2.98E-08
URI (Δ CDF)	-1.15E-07	-9.75E-08	-9.64E-08	-9.09E-08	-6.87E-08	-5.37E-08	-5.07E-08	-3.86E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-07	-1.20E-07	-1.20E-07	-1.00E-07	-9.30E-08	-8.30E-08	-8.10E-08	-6.80E-08

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: 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

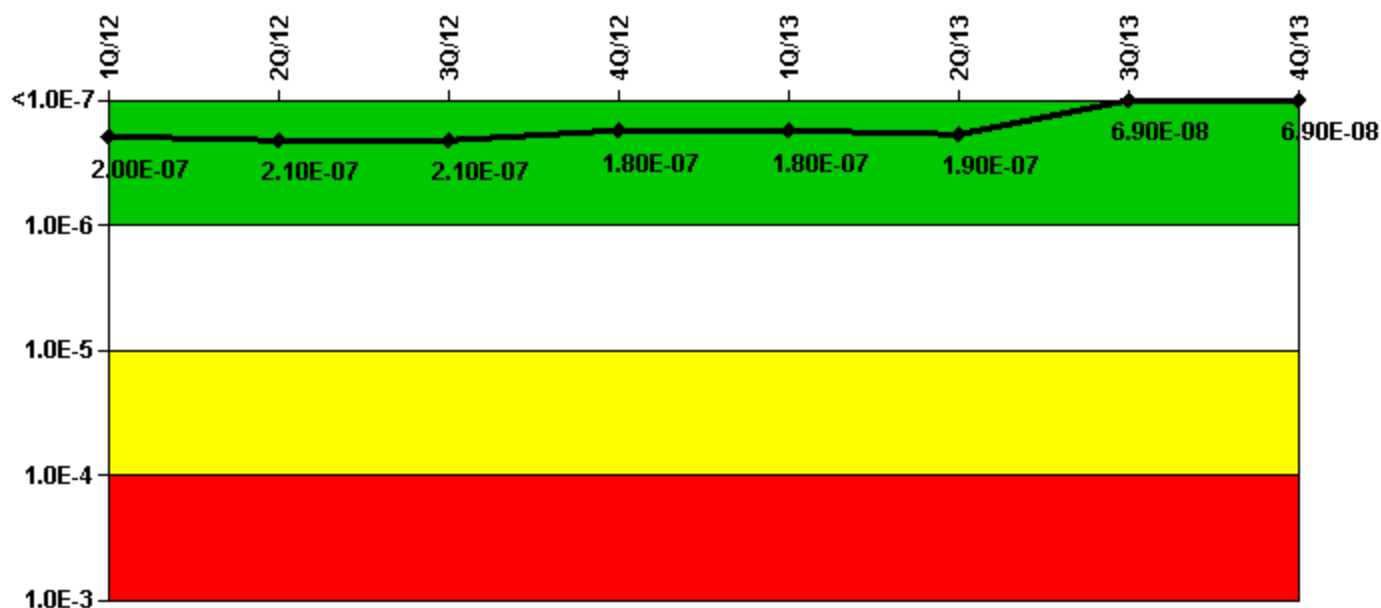
Mitigating Systems Performance Index, Residual Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	-8.82E-09	-8.80E-09	-8.71E-09	-8.67E-09	-8.69E-09	-4.05E-09	-4.17E-09	-4.03E-09
URI (Δ CDF)	-1.36E-08	-1.37E-08	-1.40E-08	-1.41E-08	-1.13E-08	-1.06E-08	-9.89E-09	-9.12E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.00E-08	-1.50E-08	-1.40E-08	-1.30E-08

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: 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

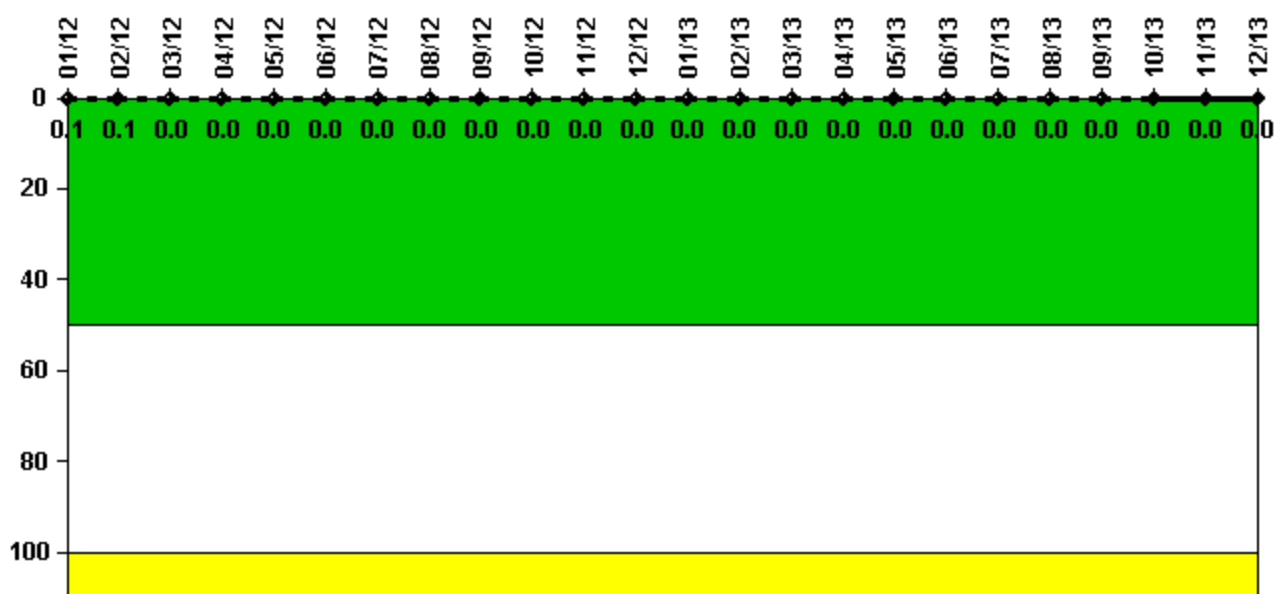
Mitigating Systems Performance Index, Cooling Water Systems	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (Δ CDF)	2.06E-08	2.10E-08	2.04E-08	5.13E-09	5.22E-09	4.90E-09	2.65E-09	-1.93E-09
URI (Δ CDF)	1.76E-07	1.90E-07	1.88E-07	1.77E-07	1.79E-07	1.81E-07	6.67E-08	7.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.00E-07	2.10E-07	2.10E-07	1.80E-07	1.80E-07	1.90E-07	6.90E-08	6.90E-08

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

1Q/12: Changed PRA Parameter(s).

Reactor Coolant System Activity



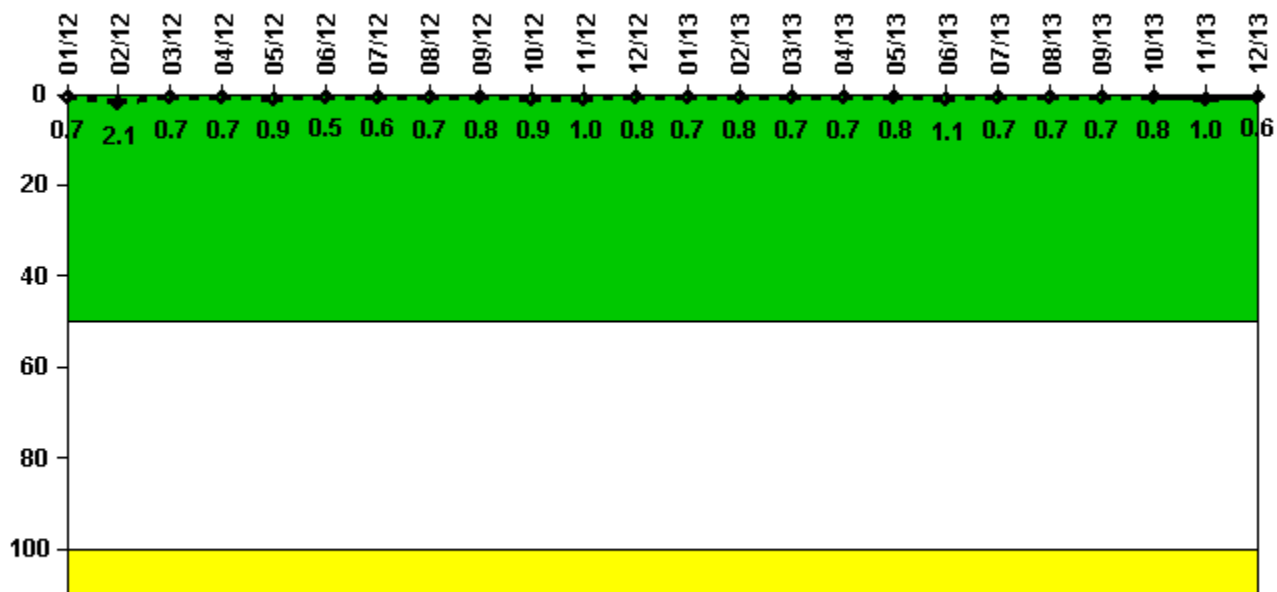
Thresholds: White > 50.0 Yellow > 100.0

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	0.000500	0.000509	0.000459	0.000198	0.000189	0.000187	0.000196	0.000215	0.000217	0.000234	0.000218	0.000232
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum activity	0.000244	0.000267	0.000246	0.000247	0.000280	0.000239	0.000258	0.000239	0.000204	0.000257	0.000273	0.000276
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



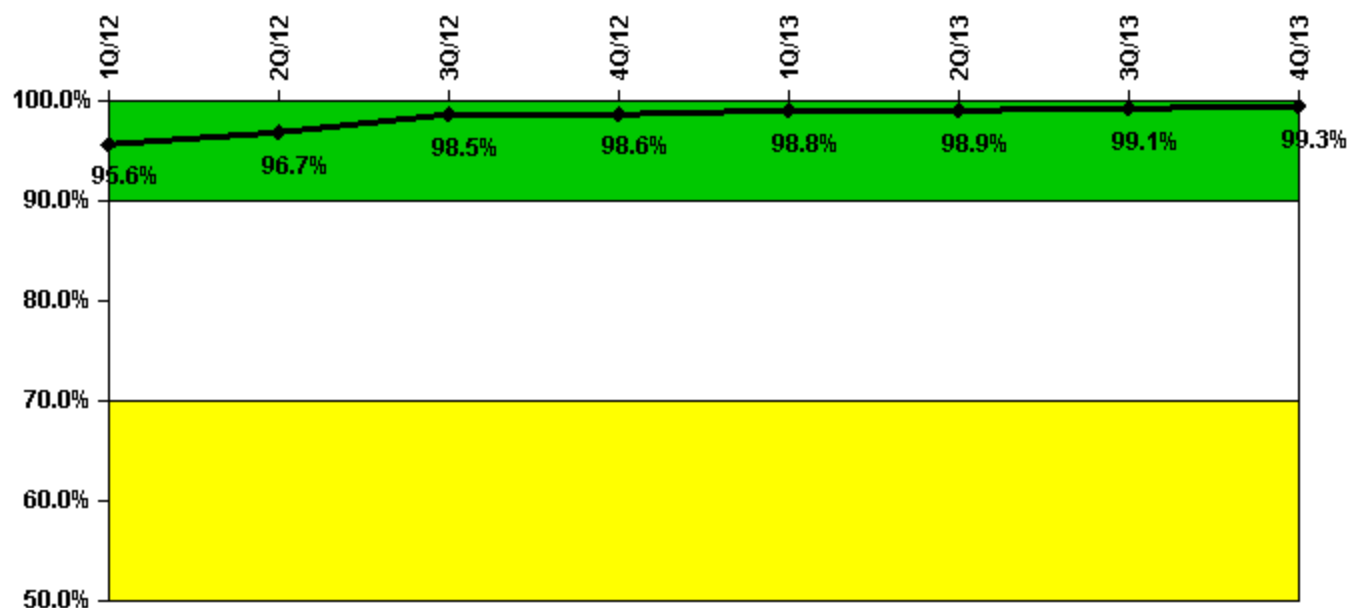
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum leakage	0.070	0.210	0.070	0.070	0.090	0.050	0.060	0.070	0.080	0.090	0.100	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	2.1	0.7	0.7	0.9	0.5	0.6	0.7	0.8	0.9	1.0	0.8
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	0.070	0.080	0.070	0.073	0.080	0.110	0.071	0.070	0.070	0.080	0.100	0.060
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.8	0.7	0.7	0.8	1.1	0.7	0.7	0.7	0.8	1.0	0.6

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

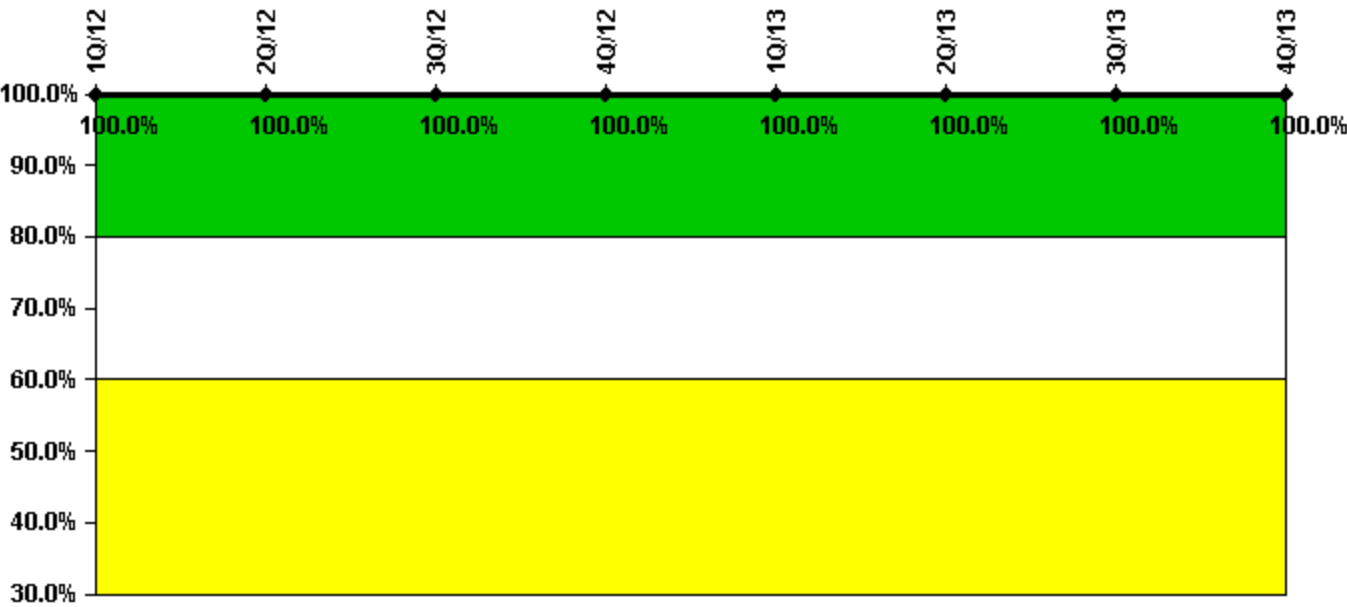
Notes

Drill/Exercise Performance	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful opportunities	131.0	289.0	374.0	266.0	101.0	298.0	291.0	127.0
Total opportunities	131.0	293.0	374.0	269.0	101.0	299.0	297.0	127.0
Indicator value	95.6%	96.7%	98.5%	98.6%	98.8%	98.9%	99.1%	99.3%

Licensee Comments:

4Q/12: Change to the November 2012 Shift Manager/control Room supervisor training events from 112/113 to 116/117.

ERO Drill Participation



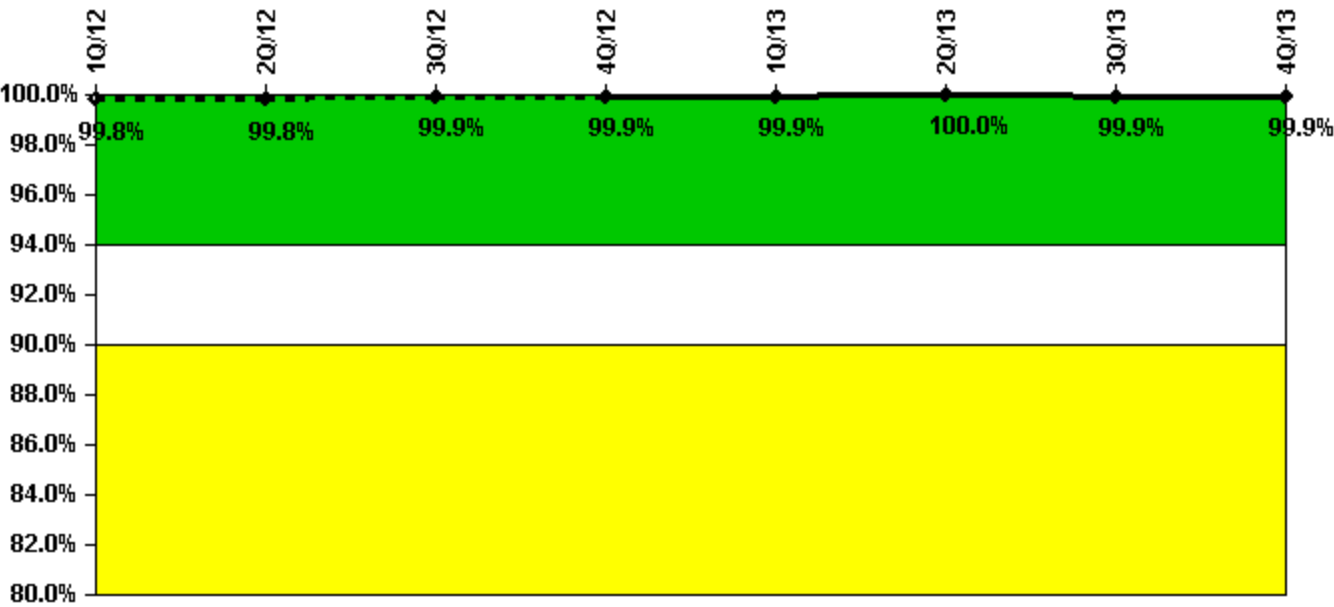
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Participating Key personnel	106.0	105.0	106.0	104.0	106.0	104.0	109.0	111.0
Total Key personnel	106.0	105.0	106.0	104.0	106.0	104.0	109.0	111.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



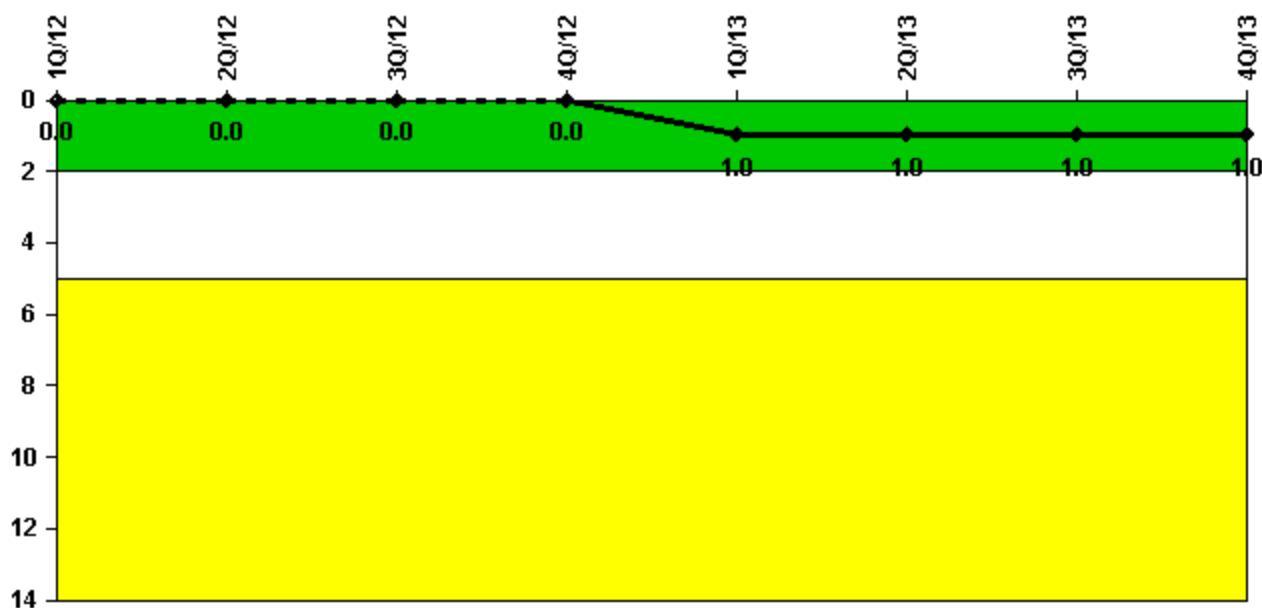
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful siren-tests	956	787	1415	577	1015	1077	936	1303
Total sirens-tests	957	789	1415	577	1015	1077	938	1304
Indicator value	99.8%	99.8%	99.9%	99.9%	99.9%	100.0%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

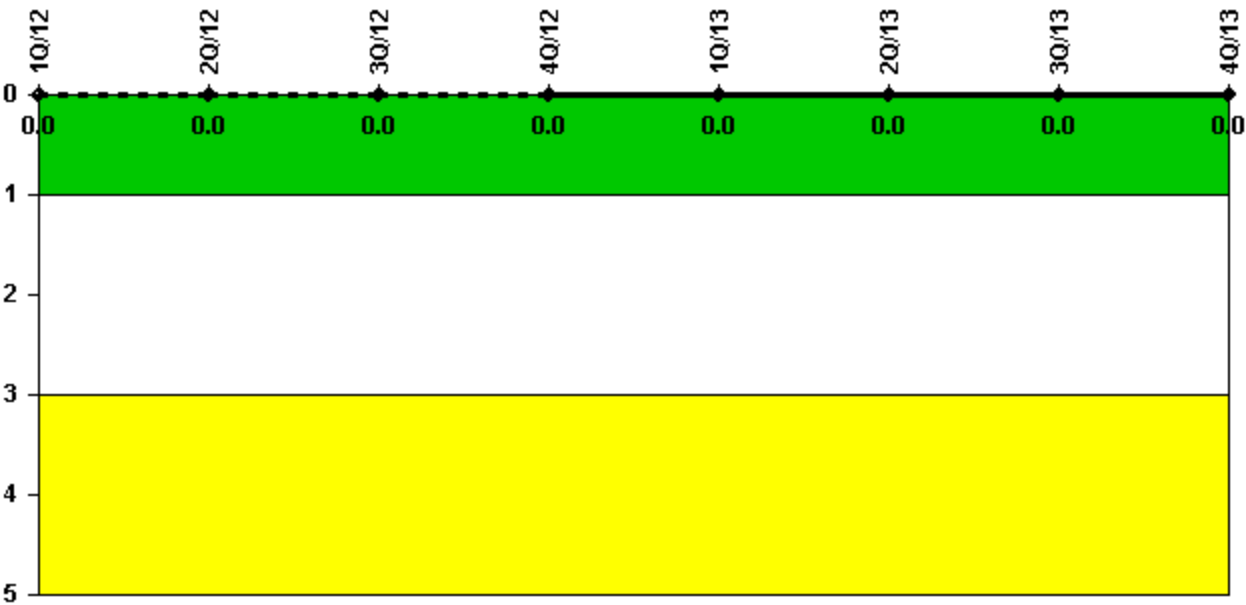
Notes

Occupational Exposure Control Effectiveness	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
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:

1Q/13: Per reporting guidelines of NEI 99-02 recorded a count at unit 2 for an event at unit 3 where following shutdown for refueling outage 3R17 workers re-entered containment without an RP escort while the containment was posted as a locked high radiation area in non-compliance with RWP-2013-3028.

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

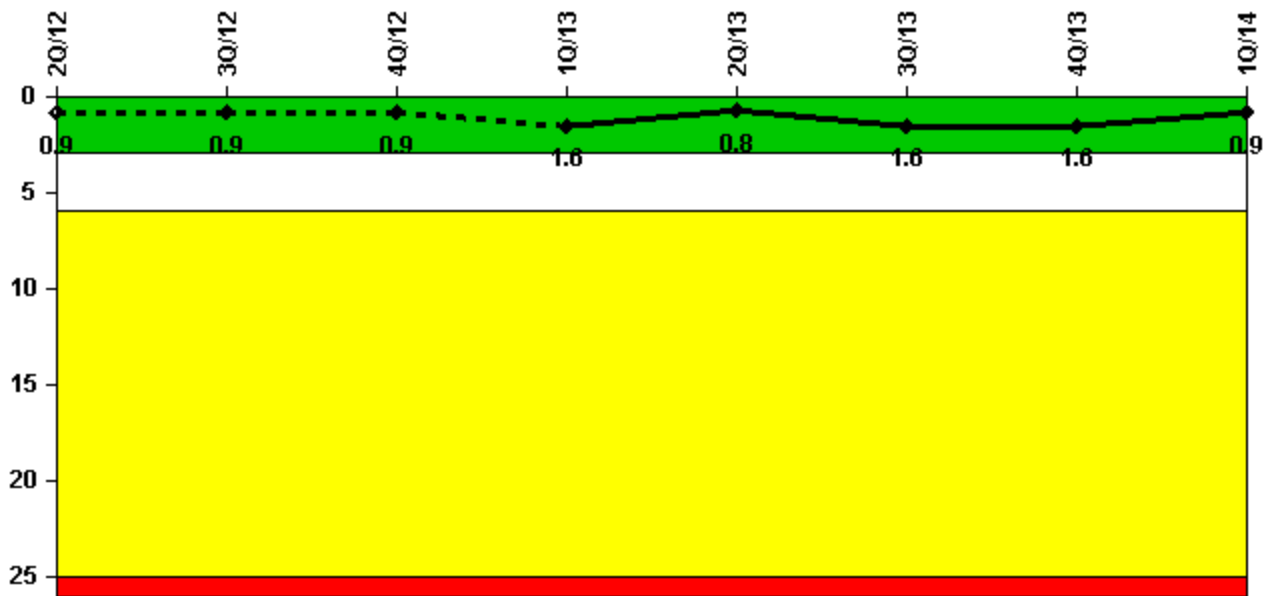
Indian Point 2

1Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

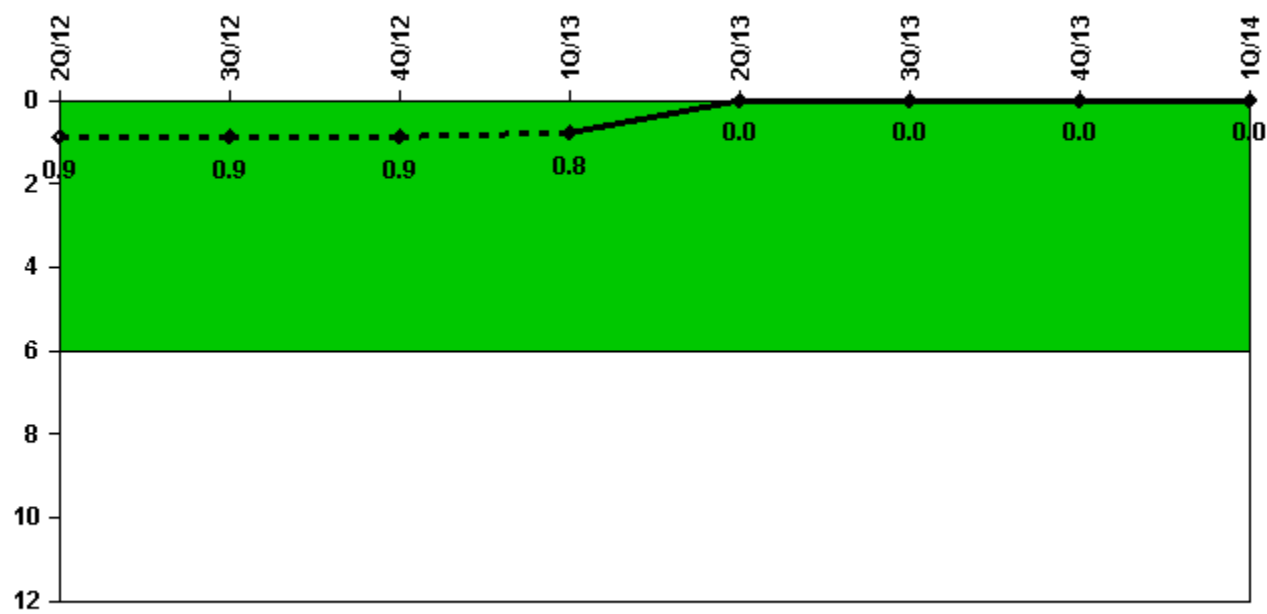
Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Unplanned scrams	1.0	0	0	1.0	0	1.0	0	0
Critical hours	2154.6	2208.0	2209.0	2107.1	2184.0	2189.3	2209.0	1619.8
Indicator value	0.9	0.9	0.9	1.6	0.8	1.6	1.6	0.9

Licensee Comments:

1Q/13: LER-2013-001 reported on April 15, 2013, a manual reator trip on February 13, 2013, due to decreasing steam generator levels as a result of the trip of both heater drain tank pumps during AOV diagnostics testing.

Unplanned Power Changes per 7000 Critical Hrs



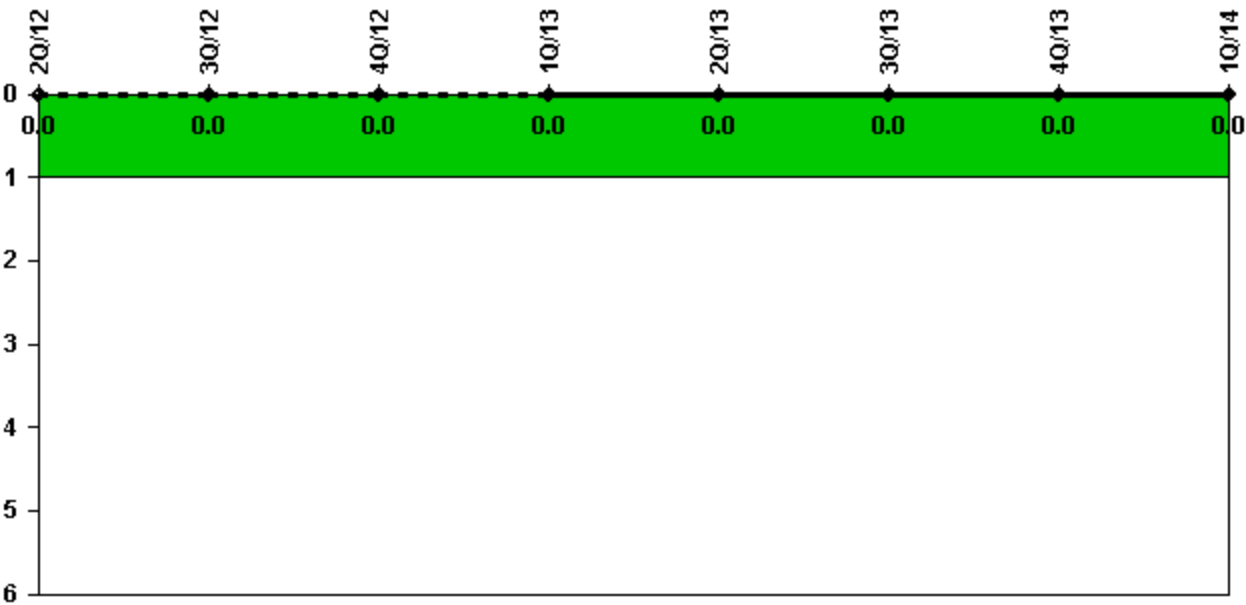
Thresholds: White > 6.0

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	1.0	0	0	0	0	0	0	0
Critical hours	2154.6	2208.0	2209.0	2107.1	2184.0	2189.3	2209.0	1619.8
Indicator value	0.9	0.9	0.9	0.8	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



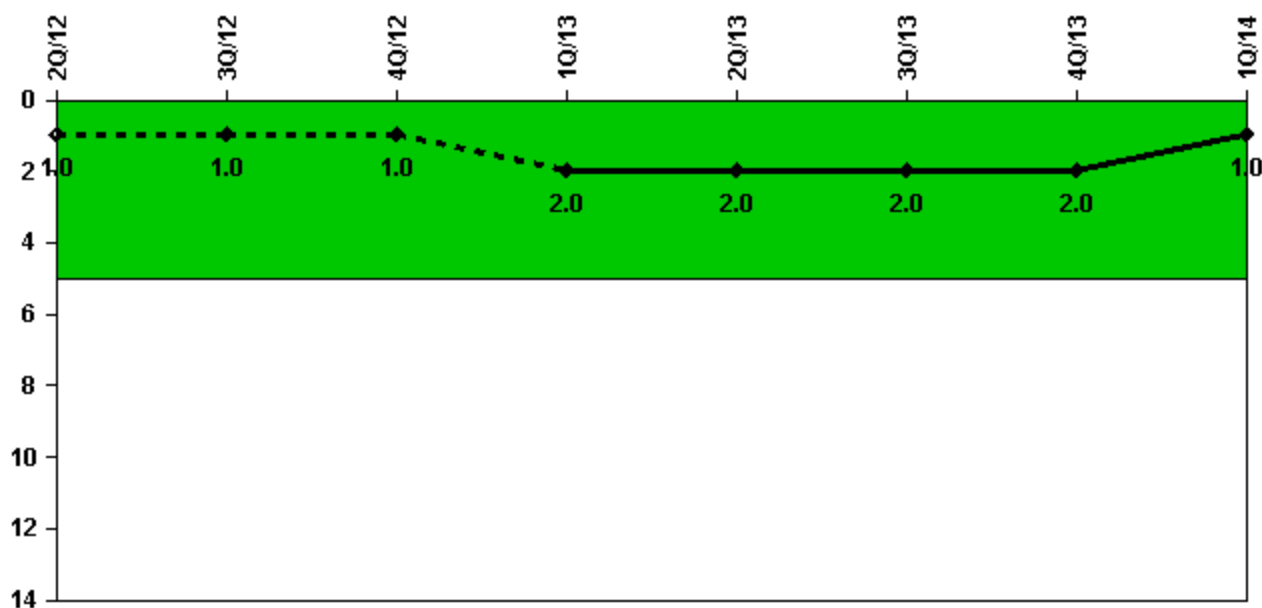
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Safety System Functional Failures	1	0	0	1	1	0	0	0
Indicator value	1	1	1	2	2	2	2	1

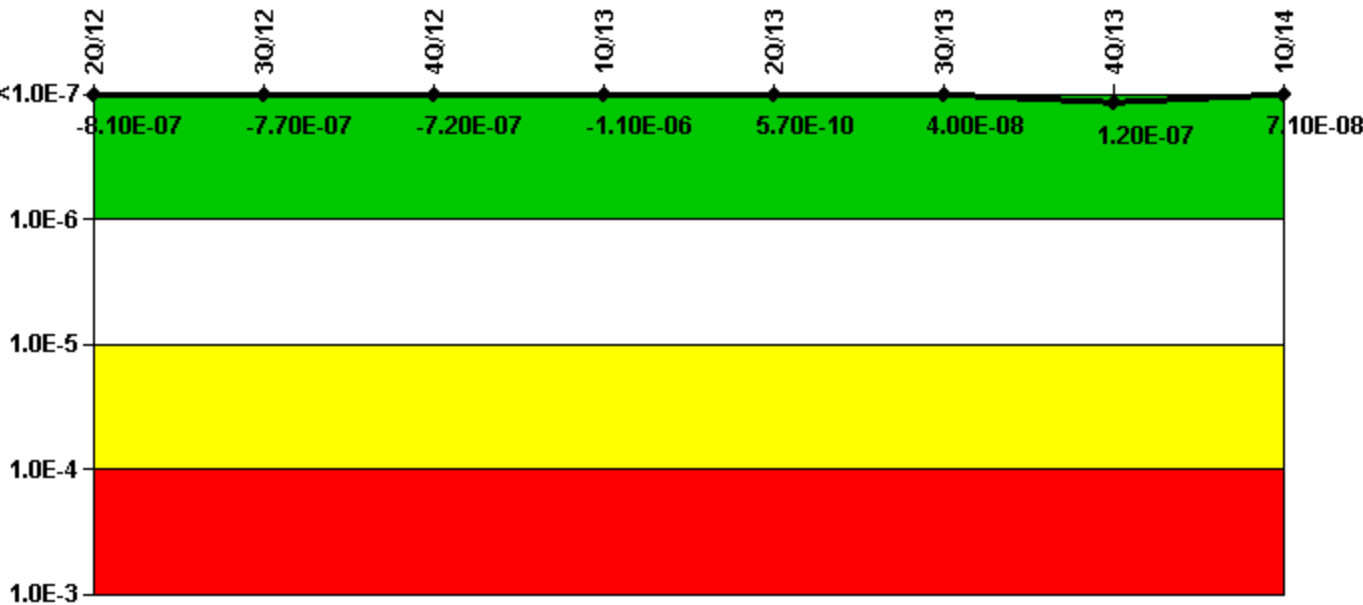
Licensee Comments:

2Q/13: LER-2013-002 reported on June 13, 2012, a SSFF of the onsite emergency diesel generators due to maintenance on the emergency fuel oil supply line during tagout of the normal fuel oil supply line.

1Q/13: LER-2012-009-00 reported on January 28, 2013, a safety system functional failure due to use of the Rad Bypass switch for steam generator blowdown isolation valves which defeats their automatic isolation for analyzed events. Equipment tag-out were discovered that placed all the SGBD isolation valves in Rad bypass while a moter driven auxiliary feedwater pump was out of service. Condition results in the inability to maintain SG inventory with continuous SGBD during heat sink events.

2Q/12: LER-2012-004 reported a SSFF for one motor driven Auxiliary Feedwater Pump out of service during testing during the time liquid radiation monitor calibration was being performed which results in a Rad BYpass switch position for steam generator (SG)blowdown isolation valves being defeated for automatic isolation for degraded heat sink events. Condition can result in inadequate maintenance of SG inventory.

Mitigating Systems Performance Index, Emergency AC Power System



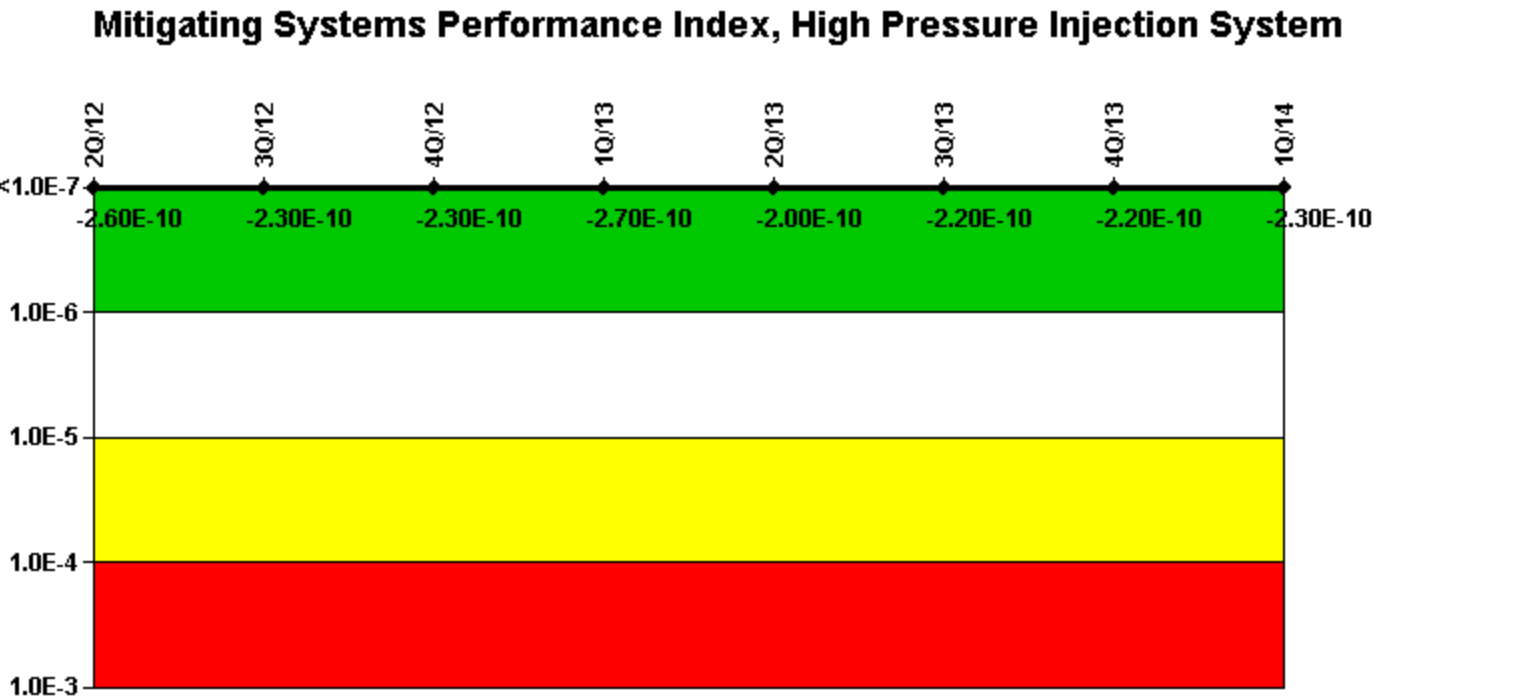
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (ΔCDF)	1.19E-07	1.28E-07	1.16E-07	1.05E-07	2.12E-07	2.29E-07	2.80E-07	2.73E-07
URI (ΔCDF)	-9.27E-07	-8.94E-07	-8.33E-07	-1.16E-06	-2.11E-07	-1.89E-07	-1.59E-07	-2.03E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.10E-07	-7.70E-07	-7.20E-07	-1.10E-06	5.70E-10	4.00E-08	1.20E-07	7.10E-08

Licensee Comments:

2Q/12: Changed PRA Parameter(s).



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

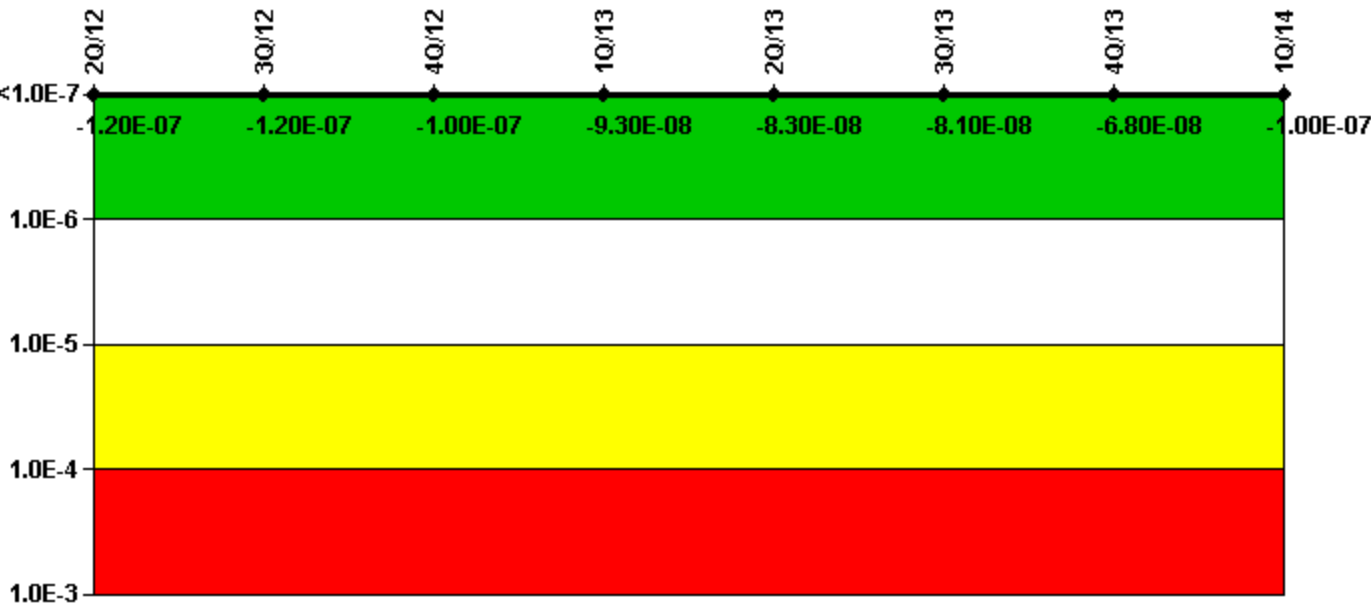
Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (ΔCDF)	-3.65E-11	5.04E-12	1.50E-11	-2.24E-11	6.29E-11	5.22E-11	5.76E-11	6.60E-11
URI (ΔCDF)	-2.20E-10	-2.31E-10	-2.41E-10	-2.48E-10	-2.61E-10	-2.71E-10	-2.78E-10	-2.92E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.60E-10	-2.30E-10	-2.30E-10	-2.70E-10	-2.00E-10	-2.20E-10	-2.20E-10	-2.30E-10

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Heat Removal System



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

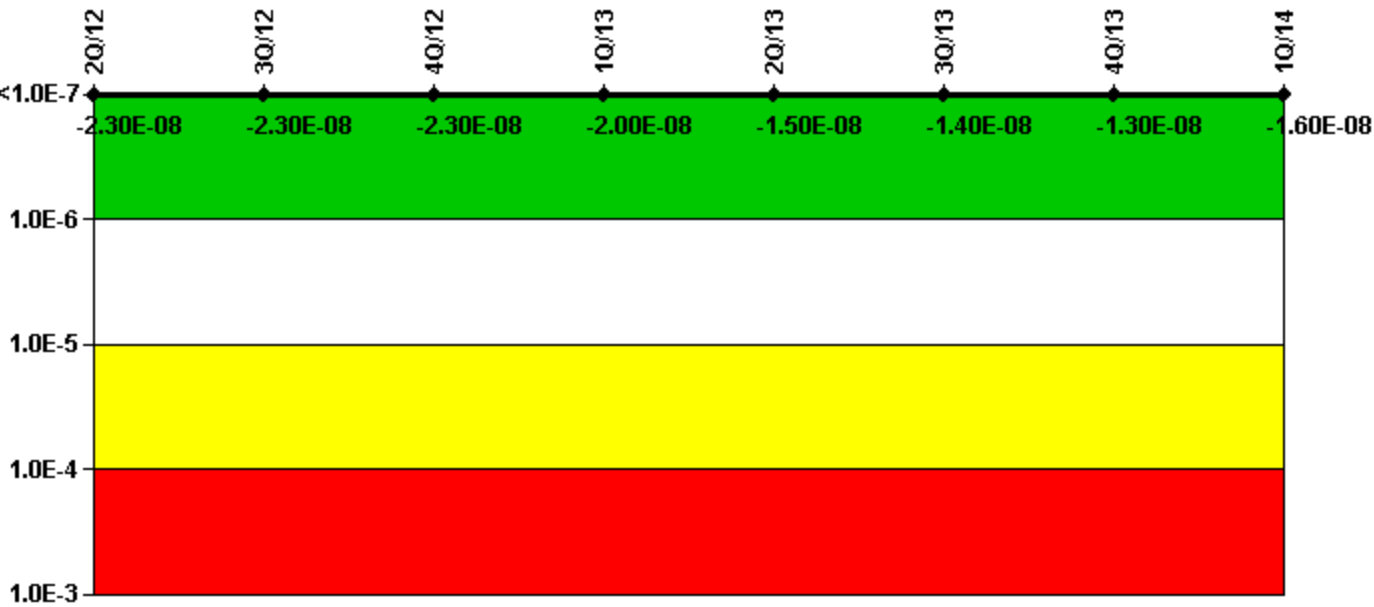
Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (ΔCDF)	-2.19E-08	-2.10E-08	-9.66E-09	-2.41E-08	-2.93E-08	-2.99E-08	-2.98E-08	-2.85E-08
URI (ΔCDF)	-9.75E-08	-9.64E-08	-9.09E-08	-6.87E-08	-5.37E-08	-5.07E-08	-3.86E-08	-7.36E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-07	-1.20E-07	-1.00E-07	-9.30E-08	-8.30E-08	-8.10E-08	-6.80E-08	-1.00E-07

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Residual Heat Removal System



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

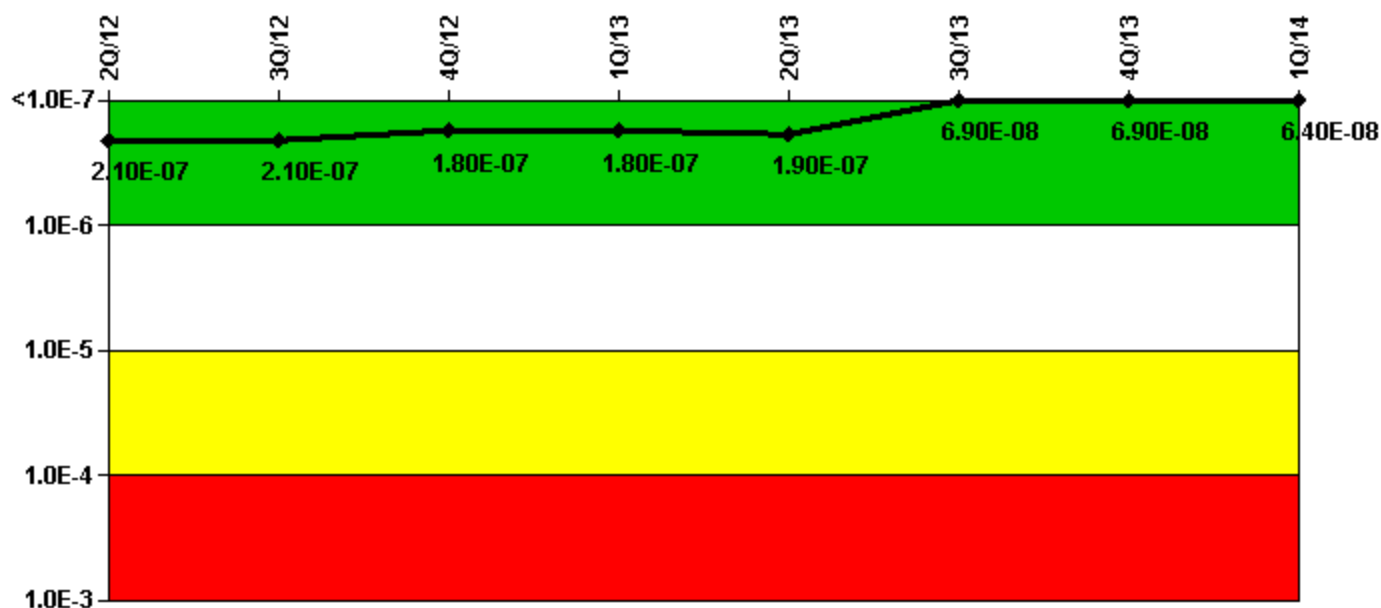
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (ΔCDF)	-8.80E-09	-8.71E-09	-8.67E-09	-8.69E-09	-4.05E-09	-4.17E-09	-4.03E-09	-3.91E-09
URI (ΔCDF)	-1.37E-08	-1.40E-08	-1.41E-08	-1.13E-08	-1.06E-08	-9.89E-09	-9.12E-09	-1.17E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-08	-2.30E-08	-2.30E-08	-2.00E-08	-1.50E-08	-1.40E-08	-1.30E-08	-1.60E-08

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

Mitigating Systems Performance Index, Cooling Water Systems



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

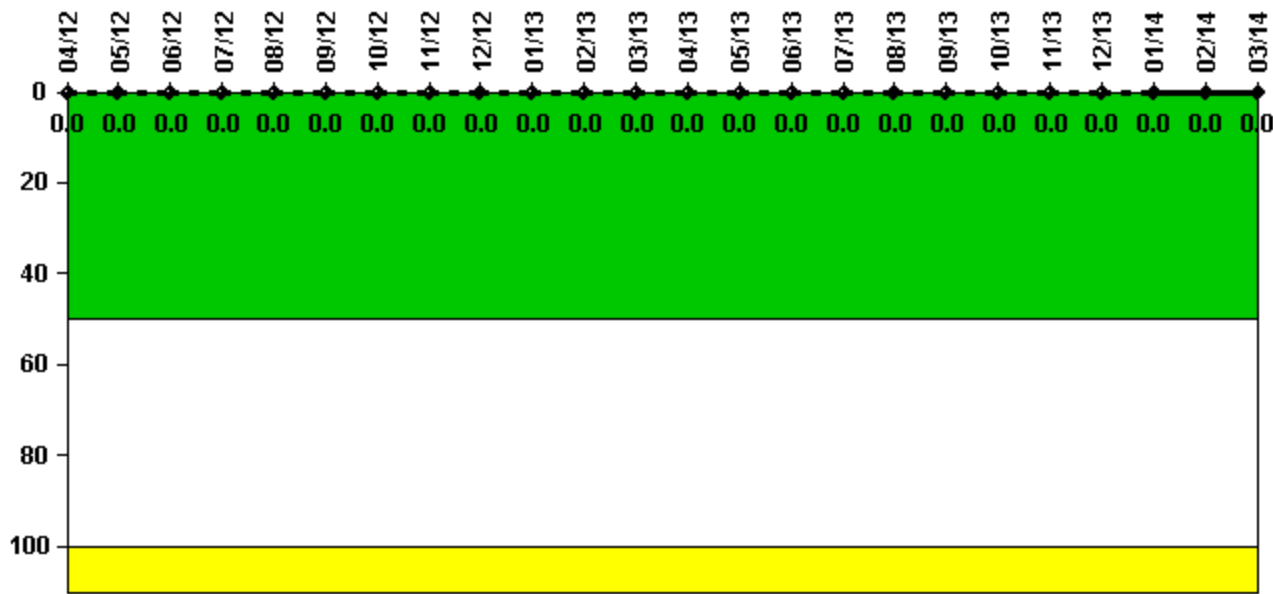
Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
UAI (Δ CDF)	2.10E-08	2.04E-08	5.13E-09	5.22E-09	4.90E-09	2.65E-09	-1.93E-09	-3.47E-09
URI (Δ CDF)	1.90E-07	1.88E-07	1.77E-07	1.79E-07	1.81E-07	6.67E-08	7.05E-08	6.71E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.10E-07	2.10E-07	1.80E-07	1.80E-07	1.90E-07	6.90E-08	6.90E-08	6.40E-08

Licensee Comments:

2Q/12: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

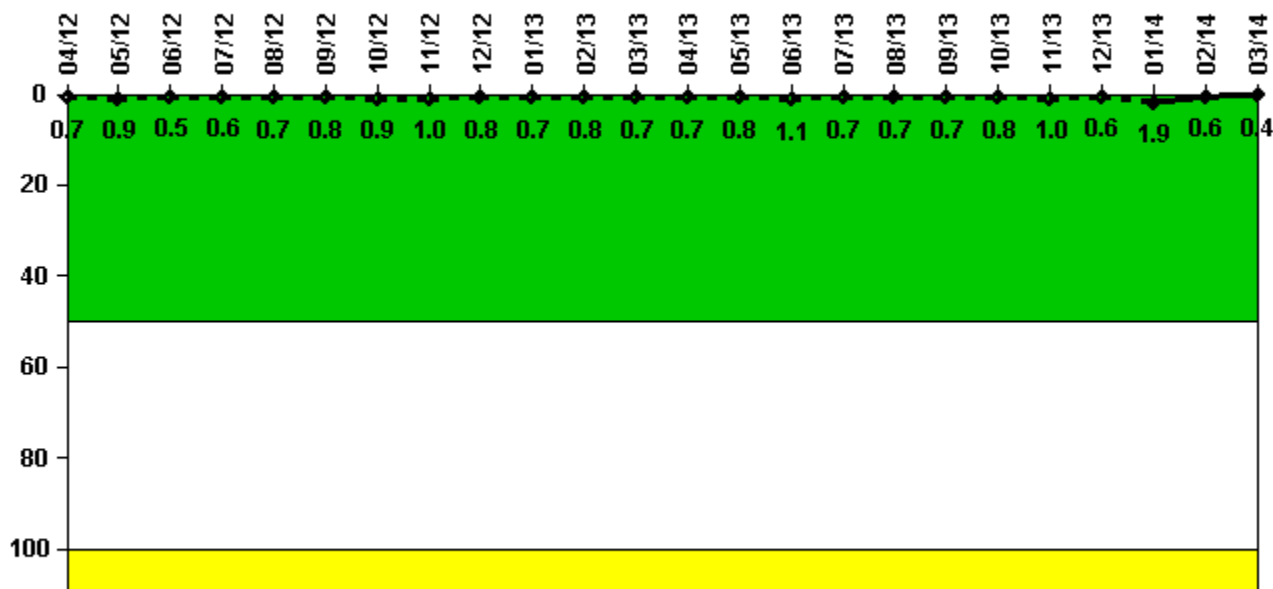
Notes

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	0.000198	0.000189	0.000187	0.000196	0.000215	0.000217	0.000234	0.000218	0.000232	0.000244	0.000267	0.000246
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum activity	0.000247	0.000280	0.000239	0.000258	0.000239	0.000204	0.000257	0.000273	0.000276	0.000278	0.000334	0.000125
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



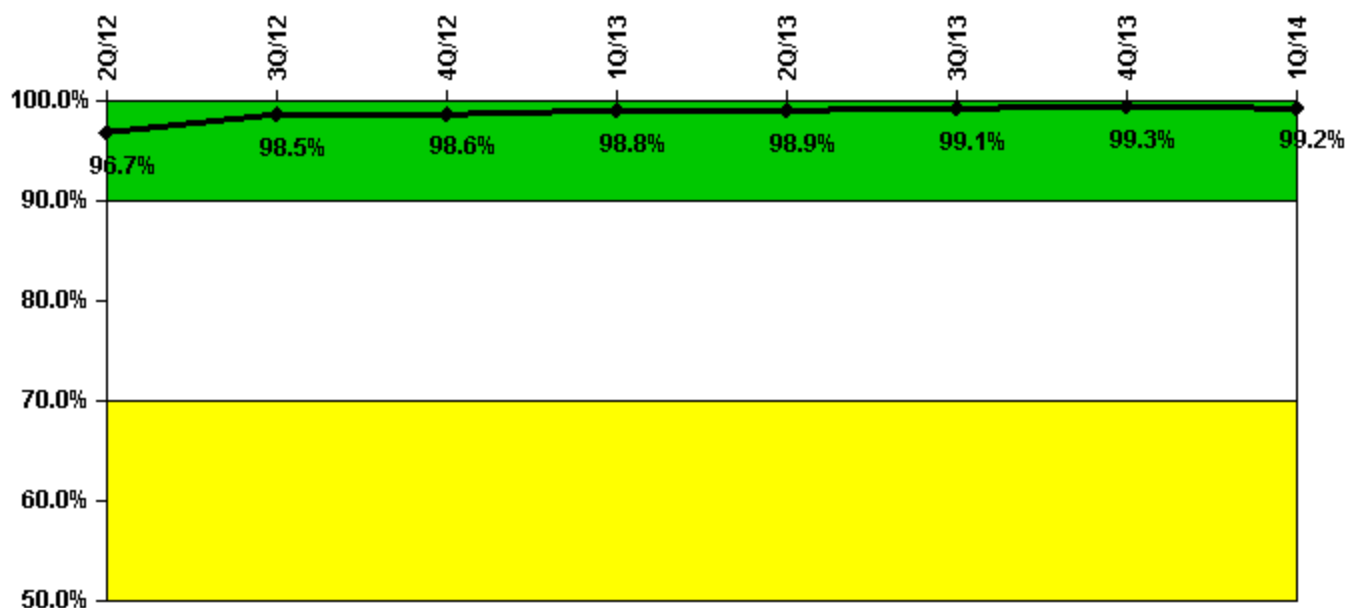
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13
Maximum leakage	0.070	0.090	0.050	0.060	0.070	0.080	0.090	0.100	0.080	0.070	0.080	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.9	0.5	0.6	0.7	0.8	0.9	1.0	0.8	0.7	0.8	0.7
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	0.073	0.080	0.110	0.071	0.070	0.070	0.080	0.100	0.060	0.190	0.060	0.040
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.8	1.1	0.7	0.7	0.7	0.8	1.0	0.6	1.9	0.6	0.4

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

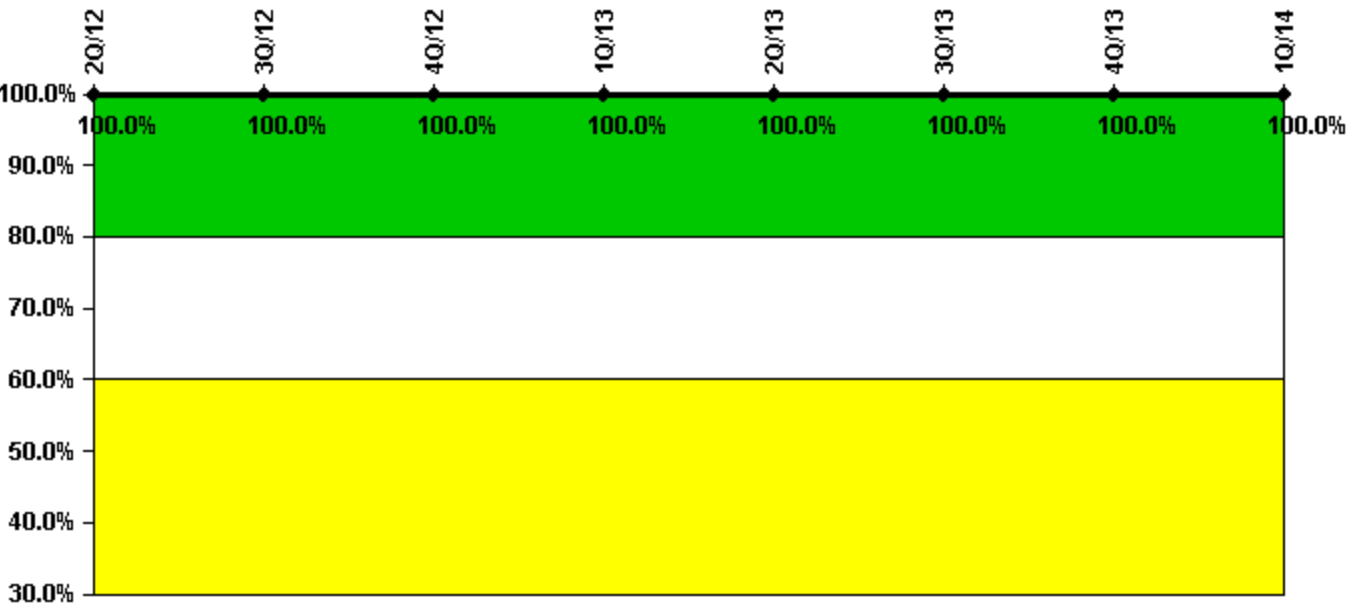
Notes

Drill/Exercise Performance	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful opportunities	289.0	374.0	266.0	101.0	298.0	291.0	127.0	50.0
Total opportunities	293.0	374.0	269.0	101.0	299.0	297.0	127.0	51.0
Indicator value	96.7%	98.5%	98.6%	98.8%	98.9%	99.1%	99.3%	99.2%

Licensee Comments:

4Q/12: Change to the November 2012 Shift Manager/control Room supervisor training events from 112/113 to 116/117.

ERO Drill Participation



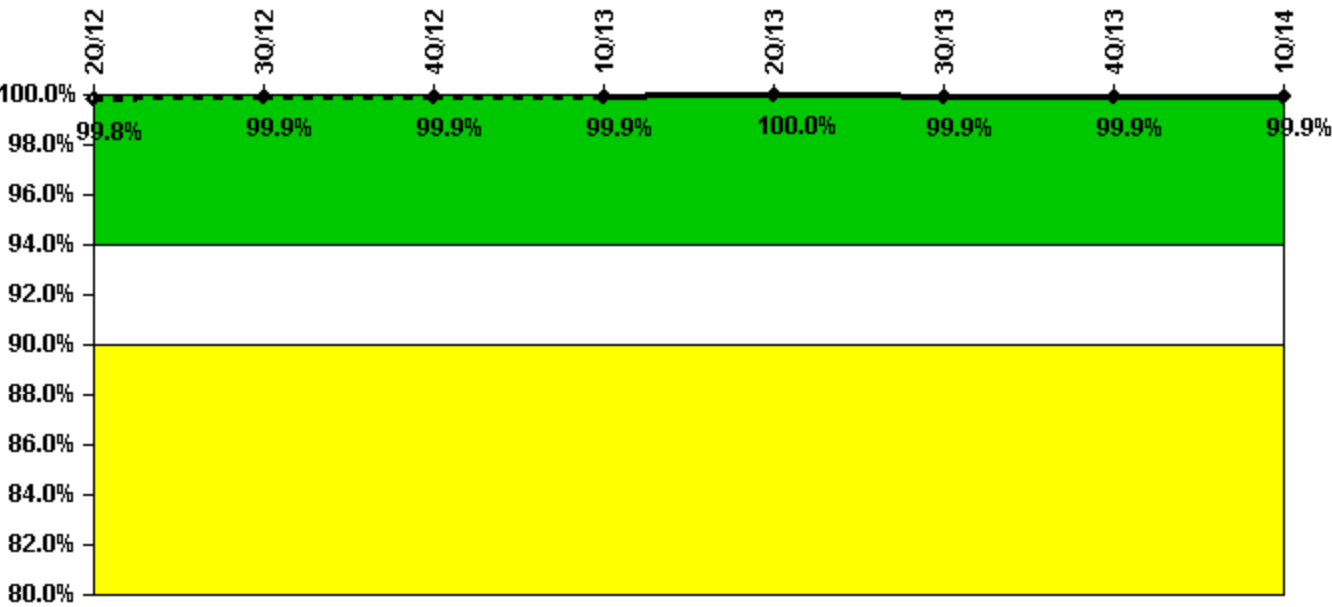
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Participating Key personnel	105.0	106.0	104.0	106.0	104.0	109.0	111.0	104.0
Total Key personnel	105.0	106.0	104.0	106.0	104.0	109.0	111.0	104.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



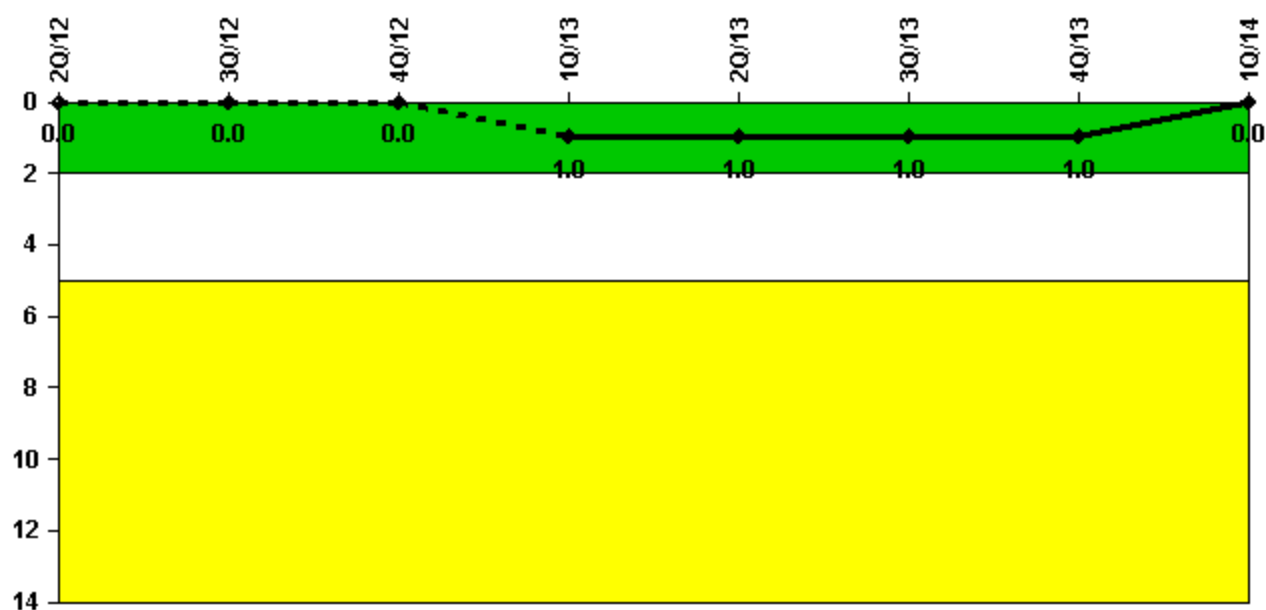
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful siren-tests	787	1415	577	1015	1077	936	1303	1148
Total sirens-tests	789	1415	577	1015	1077	938	1304	1148
Indicator value	99.8%	99.9%	99.9%	99.9%	100.0%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

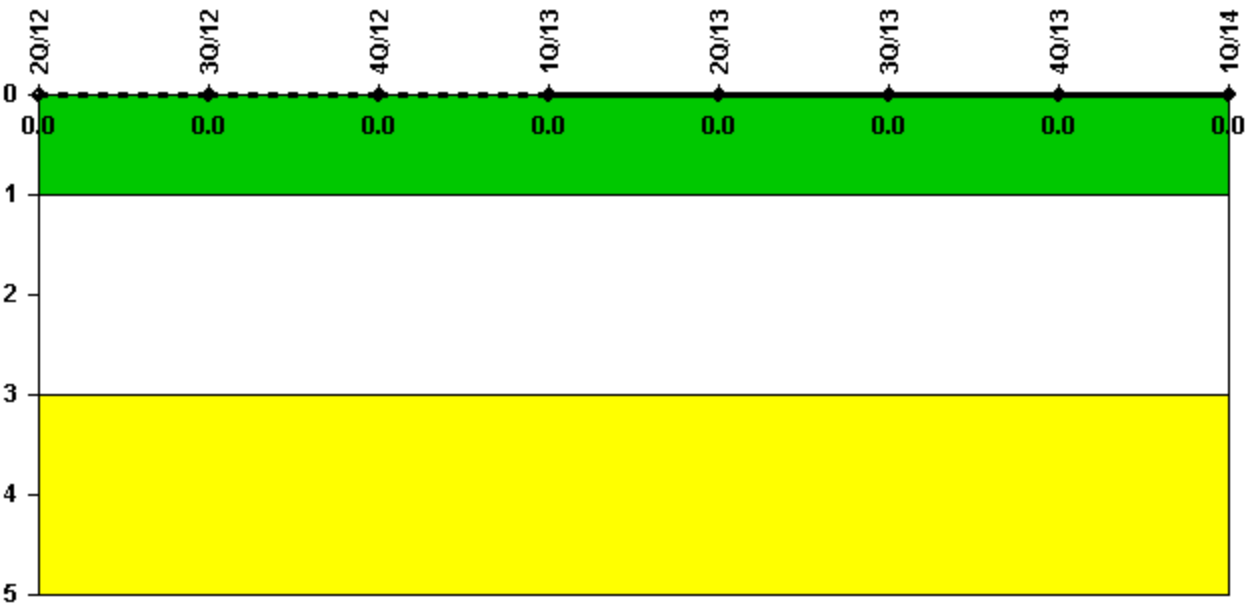
Notes

Occupational Exposure Control Effectiveness	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
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:

1Q/13: Per reporting guidelines of NEI 99-02 recorded a count at unit 2 for an event at unit 3 where following shutdown for refueling outage 3R17 workers re-entered containment without an RP escort while the containment was posted as a locked high radiation area in non-compliance with RWP-2013-3028.

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

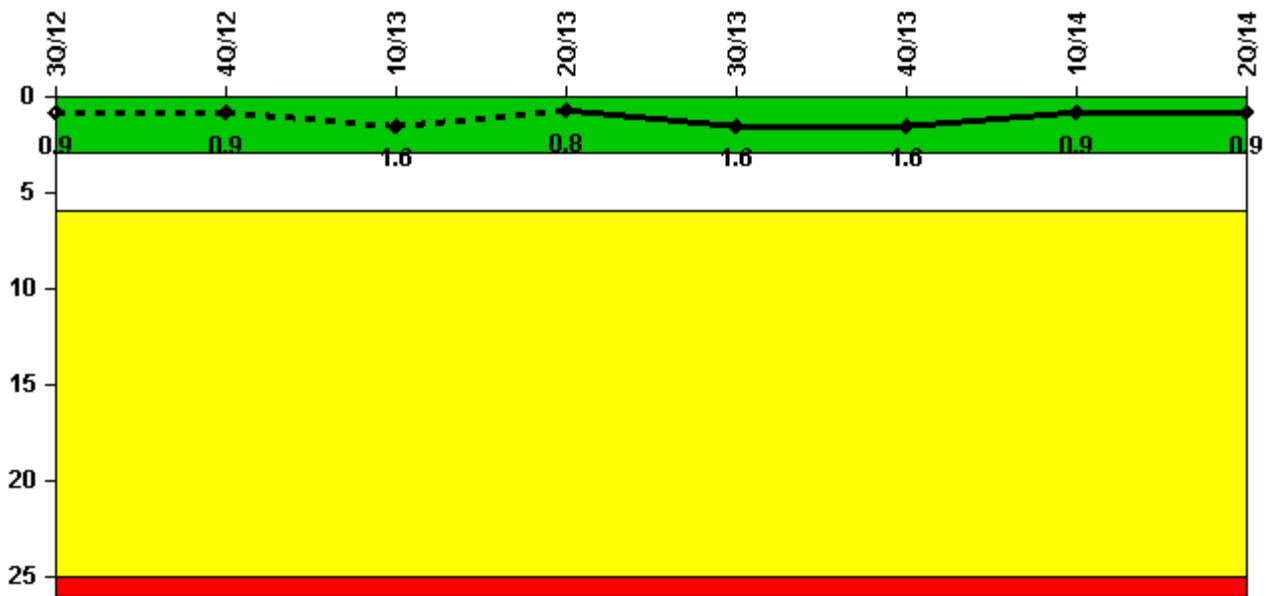
Indian Point 2

2Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

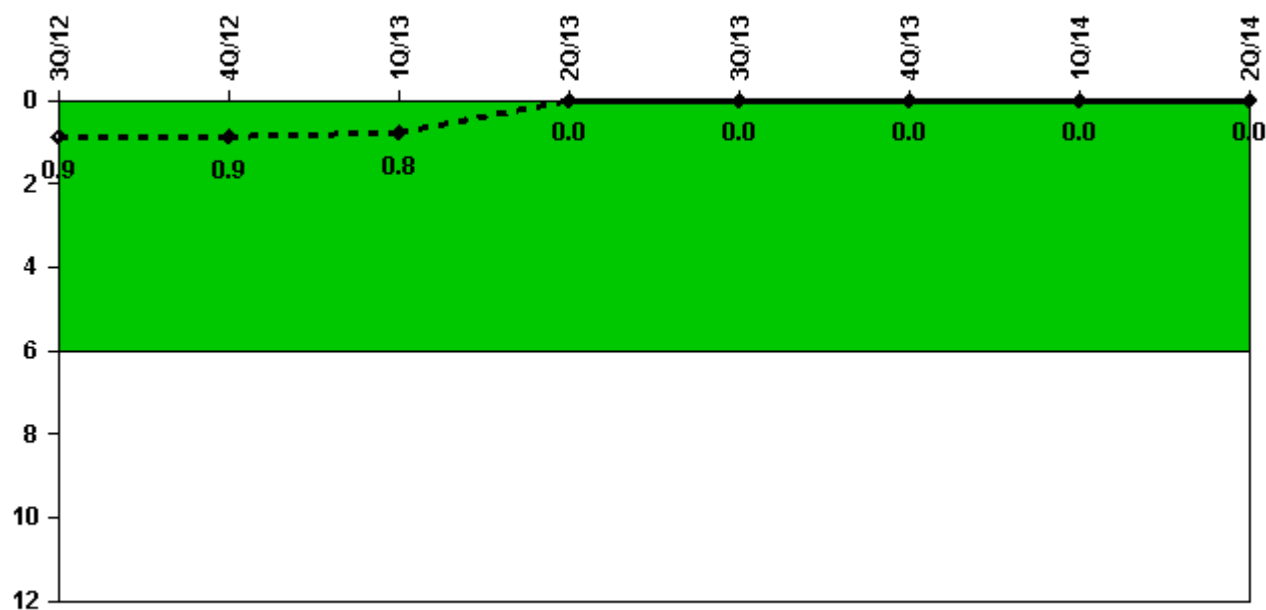
Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned scrams	0	0	1.0	0	1.0	0	0	0
Critical hours	2208.0	2209.0	2107.1	2184.0	2189.3	2209.0	1619.8	2184.0
Indicator value	0.9	0.9	1.6	0.8	1.6	1.6	0.9	0.9

Licensee Comments:

1Q/13: LER-2013-001 reported on April 15, 2013, a manual reactor trip on February 13, 2013, due to decreasing steam generator levels as a result of the trip of both heater drain tank pumps during AOV diagnostics testing.

Unplanned Power Changes per 7000 Critical Hrs



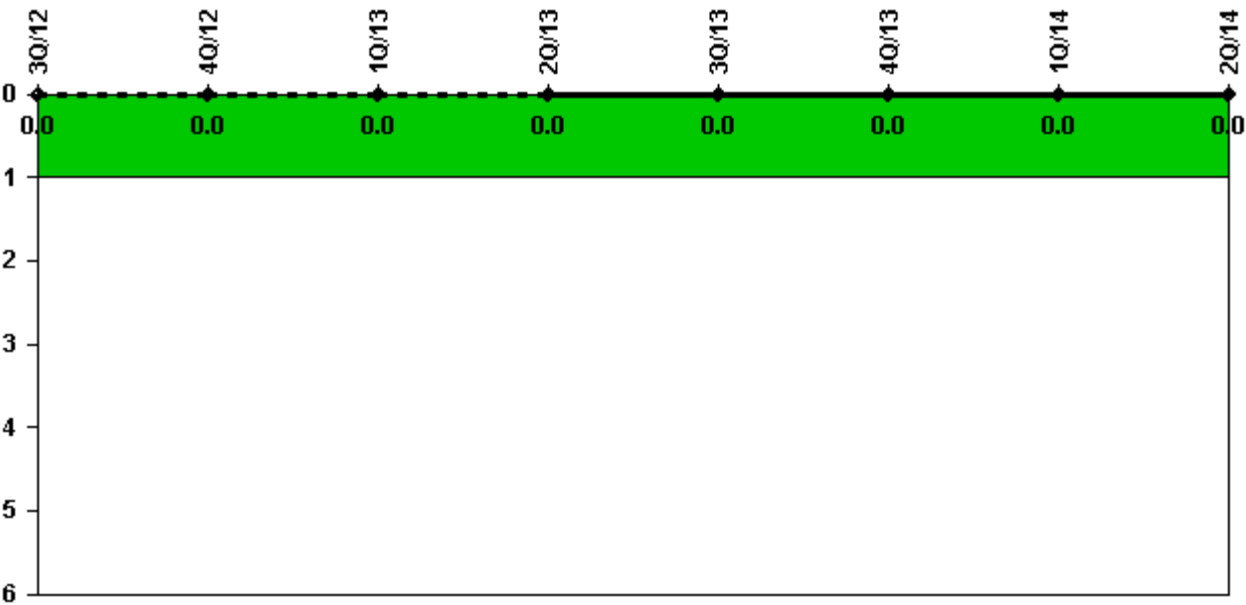
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2107.1	2184.0	2189.3	2209.0	1619.8	2184.0
Indicator value	0.9	0.9	0.8	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



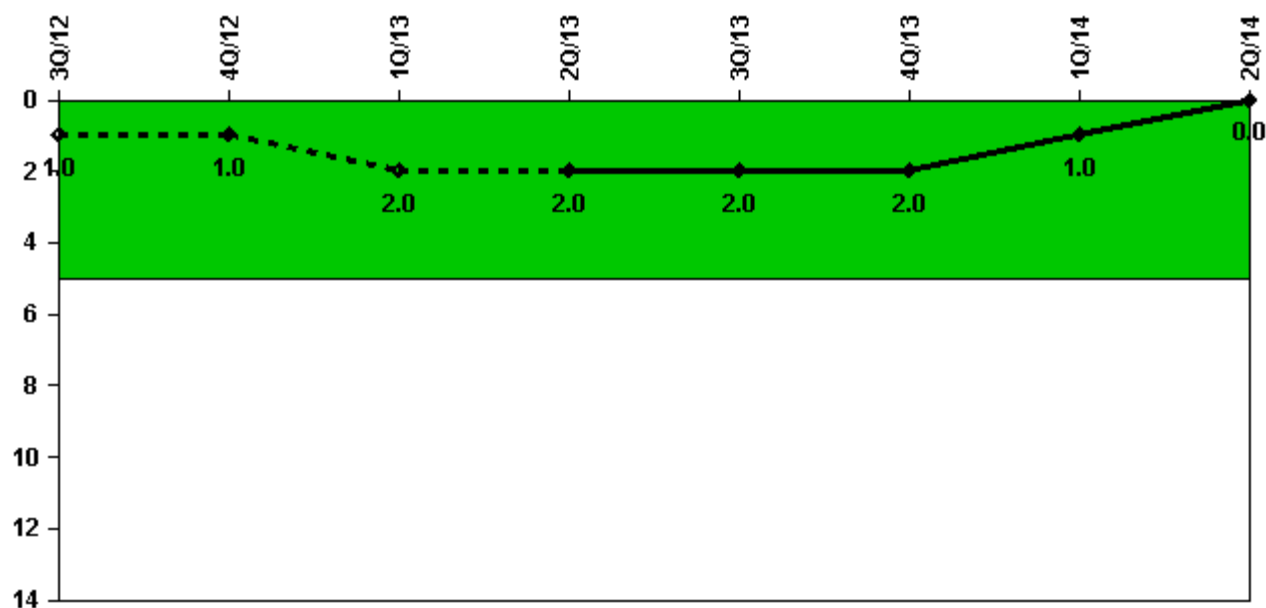
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

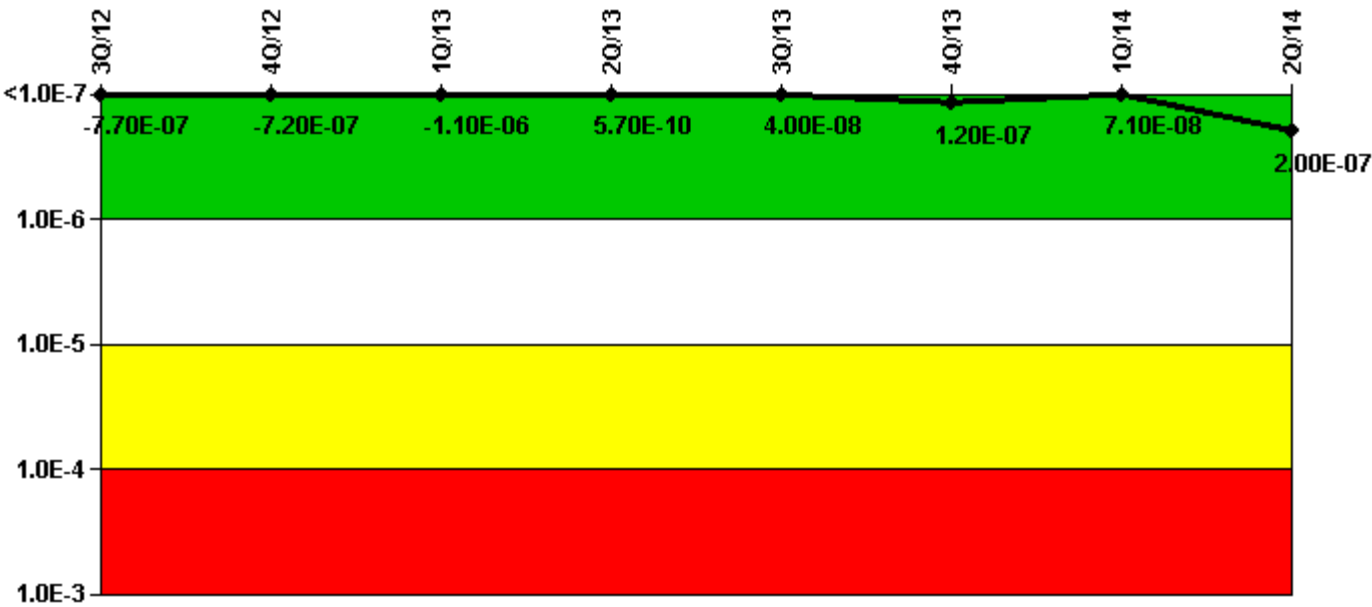
Safety System Functional Failures (PWR)	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Safety System Functional Failures	0	0	1	1	0	0	0	0
Indicator value	1	1	2	2	2	2	1	0

Licensee Comments:

2Q/13: LER-2013-002 reported on June 13, 2012, a SSFF of the onsite emergency diesel generators due to maintenance on the emergency fuel oil supply line during tagout of the normal fuel oil supply line.

1Q/13: LER-2012-009-00 reported on January 28, 2013, a safety system functional failure due to use of the Rad Bypass switch for steam generator blowdown isolation valves which defeats their automatic isolation for analyzed events. Equipment tag-out were discovered that placed all the SGBD isolation valves in Rad bypass while a moter driven auxiliary feedwater pump was out of service. Condition results in the inability to maintain SG inventory with continuous SGBD during heat sink events.

Mitigating Systems Performance Index, Emergency AC Power System

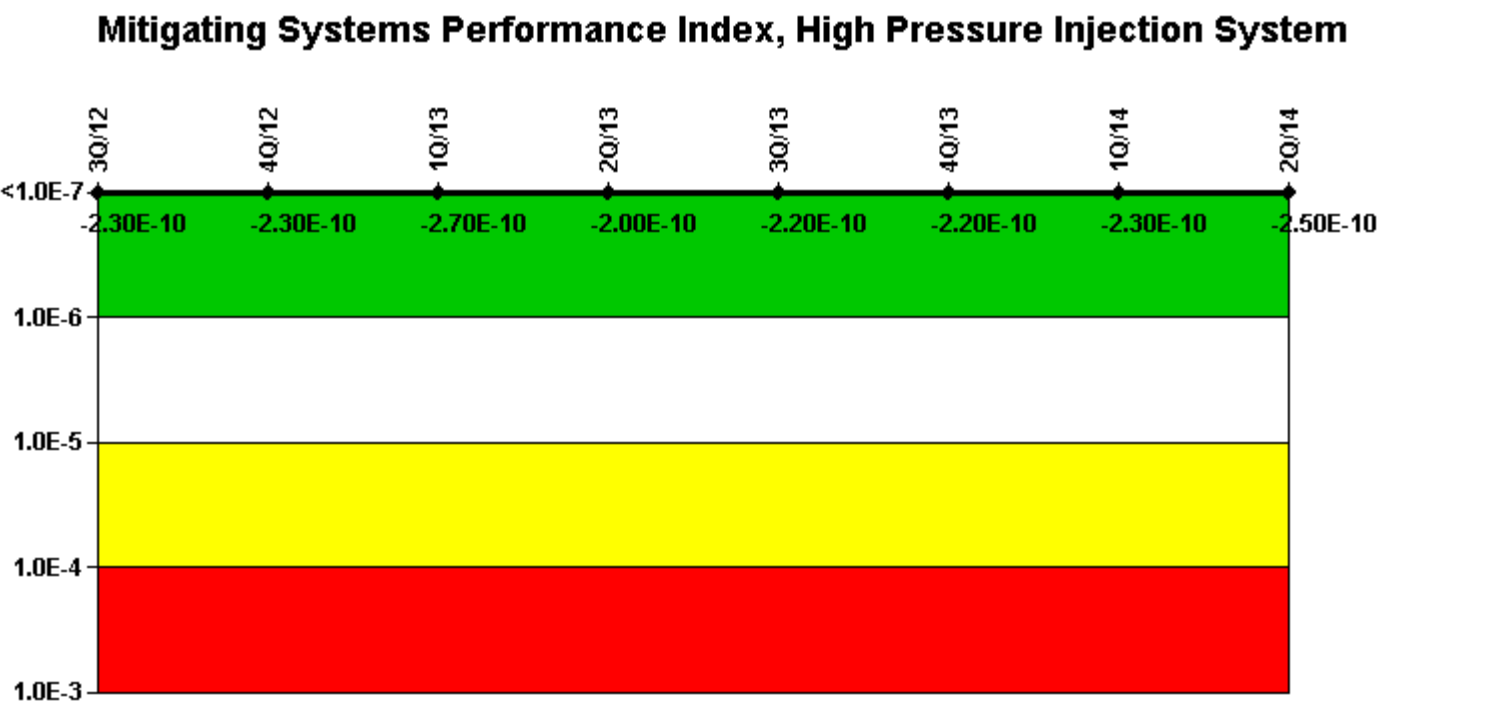


Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	1.28E-07	1.16E-07	1.05E-07	2.12E-07	2.29E-07	2.80E-07	2.73E-07	3.56E-07
URI (ΔCDF)	-8.94E-07	-8.33E-07	-1.16E-06	-2.11E-07	-1.89E-07	-1.59E-07	-2.03E-07	-1.59E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.70E-07	-7.20E-07	-1.10E-06	5.70E-10	4.00E-08	1.20E-07	7.10E-08	2.00E-07

Licensee Comments: none



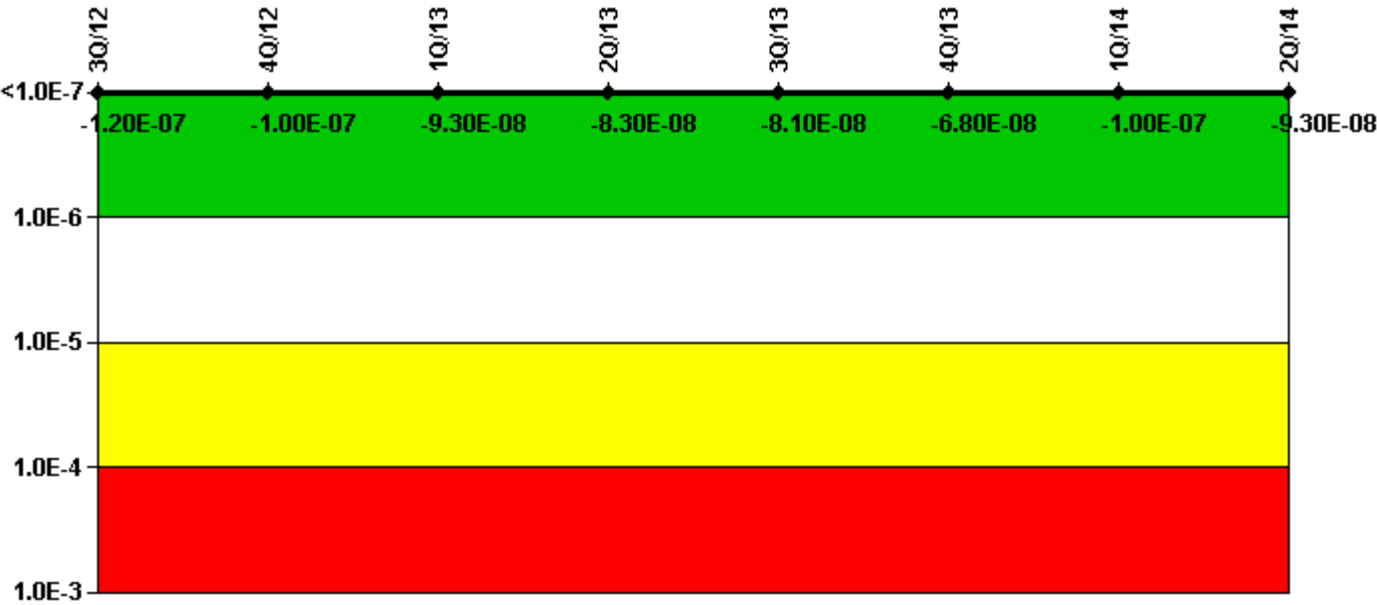
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	5.04E-12	1.50E-11	-2.24E-11	6.29E-11	5.22E-11	5.76E-11	6.60E-11	5.21E-11
URI (ΔCDF)	-2.31E-10	-2.41E-10	-2.48E-10	-2.61E-10	-2.71E-10	-2.78E-10	-2.92E-10	-3.05E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-10	-2.30E-10	-2.70E-10	-2.00E-10	-2.20E-10	-2.20E-10	-2.30E-10	-2.50E-10

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

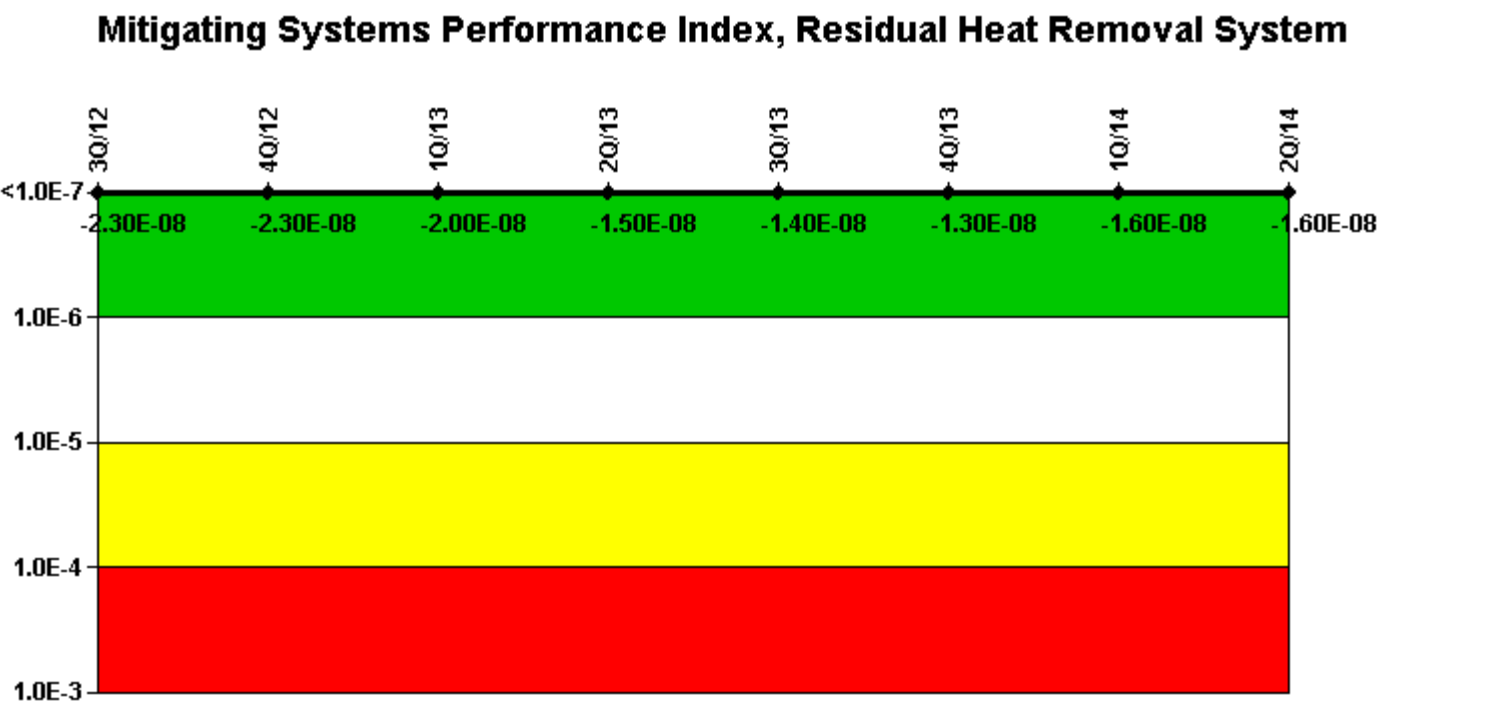


Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	-2.10E-08	-9.66E-09	-2.41E-08	-2.93E-08	-2.99E-08	-2.98E-08	-2.85E-08	-2.72E-08
URI (ΔCDF)	-9.64E-08	-9.09E-08	-6.87E-08	-5.37E-08	-5.07E-08	-3.86E-08	-7.36E-08	-6.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.20E-07	-1.00E-07	-9.30E-08	-8.30E-08	-8.10E-08	-6.80E-08	-1.00E-07	-9.30E-08

Licensee Comments: none



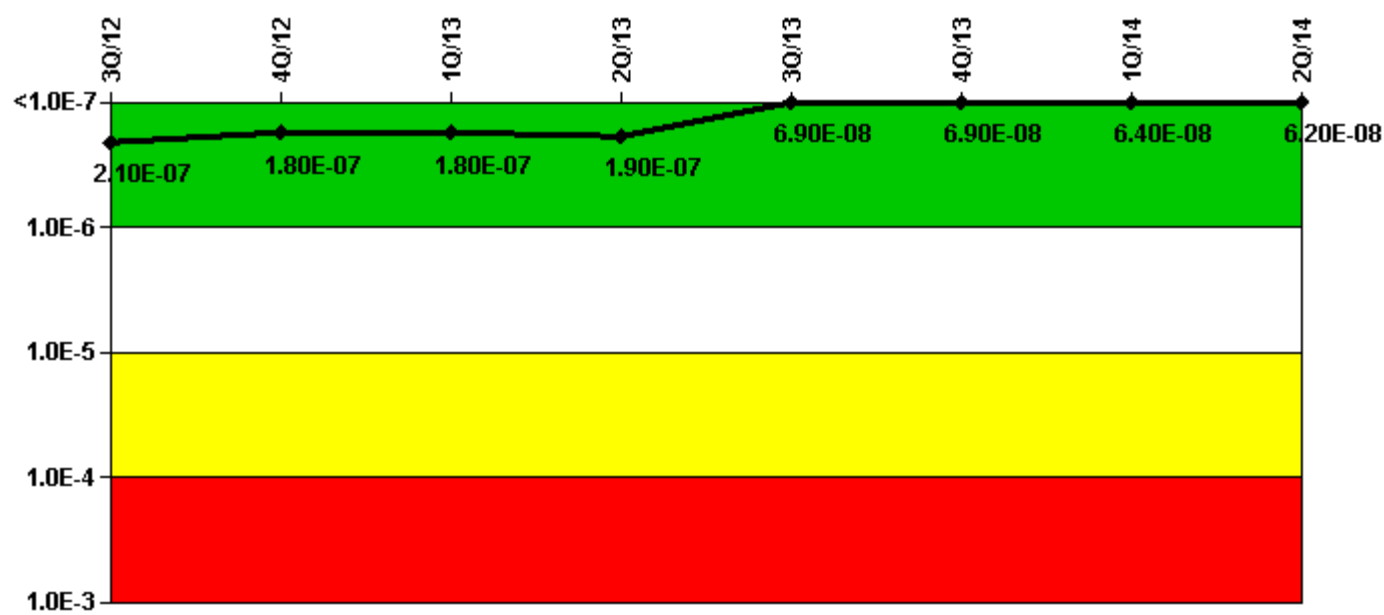
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	-8.71E-09	-8.67E-09	-8.69E-09	-4.05E-09	-4.17E-09	-4.03E-09	-3.91E-09	-3.97E-09
URI (ΔCDF)	-1.40E-08	-1.41E-08	-1.13E-08	-1.06E-08	-9.89E-09	-9.12E-09	-1.17E-08	-1.17E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-08	-2.30E-08	-2.00E-08	-1.50E-08	-1.40E-08	-1.30E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



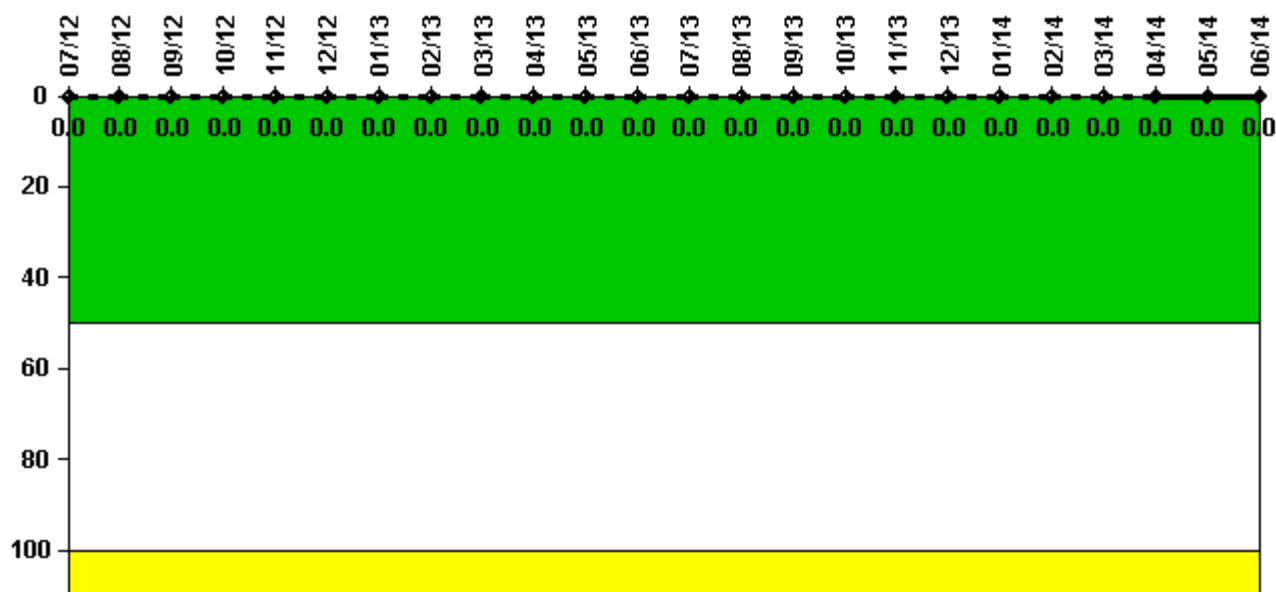
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	2.04E-08	5.13E-09	5.22E-09	4.90E-09	2.65E-09	-1.93E-09	-3.47E-09	-3.28E-09
URI (ΔCDF)	1.88E-07	1.77E-07	1.79E-07	1.81E-07	6.67E-08	7.05E-08	6.71E-08	6.55E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.10E-07	1.80E-07	1.80E-07	1.90E-07	6.90E-08	6.90E-08	6.40E-08	6.20E-08

Licensee Comments: none

Reactor Coolant System Activity



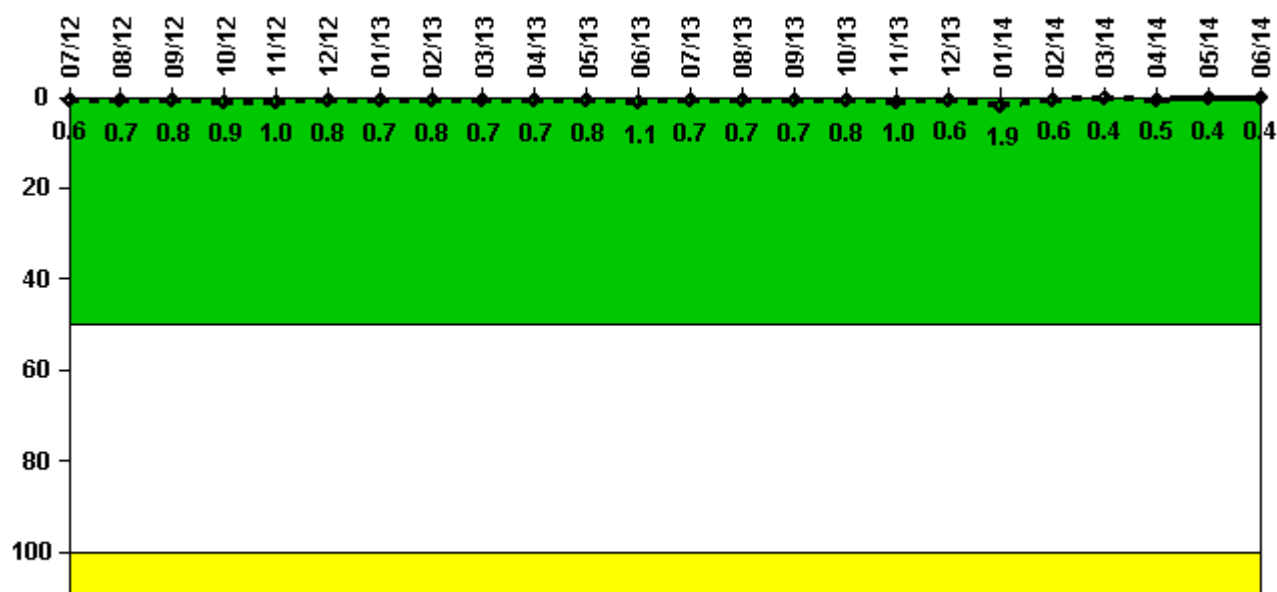
Thresholds: White > 50.0 Yellow > 100.0

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	0.000196	0.000215	0.000217	0.000234	0.000218	0.000232	0.000244	0.000267	0.000246	0.000247	0.000280	0.000239
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	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	0.000258	0.000239	0.000204	0.000257	0.000273	0.000276	0.000278	0.000334	0.000125	0.000159	0.000133	0.000165
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage

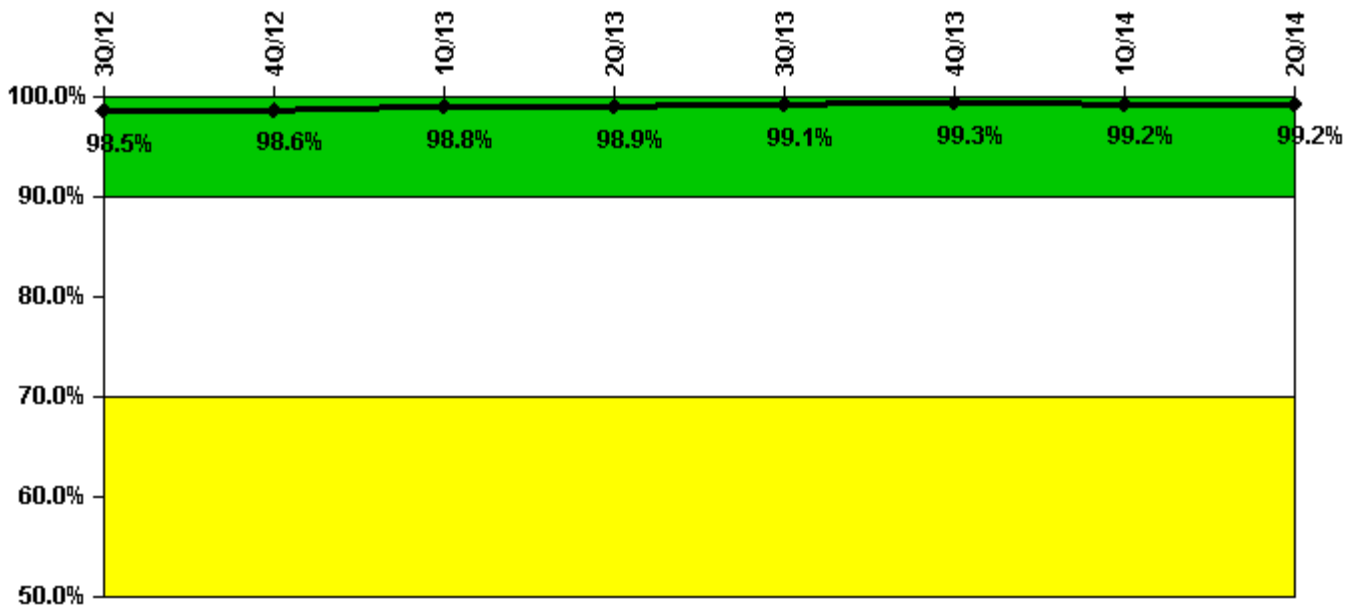


Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum leakage	0.060	0.070	0.080	0.090	0.100	0.080	0.070	0.080	0.070	0.073	0.080	0.110
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.6	0.7	0.8	0.9	1.0	0.8	0.7	0.8	0.7	0.7	0.8	1.1
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	0.071	0.070	0.070	0.080	0.100	0.060	0.190	0.060	0.040	0.050	0.040	0.040
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.7	0.7	0.8	1.0	0.6	1.9	0.6	0.4	0.5	0.4	0.4

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

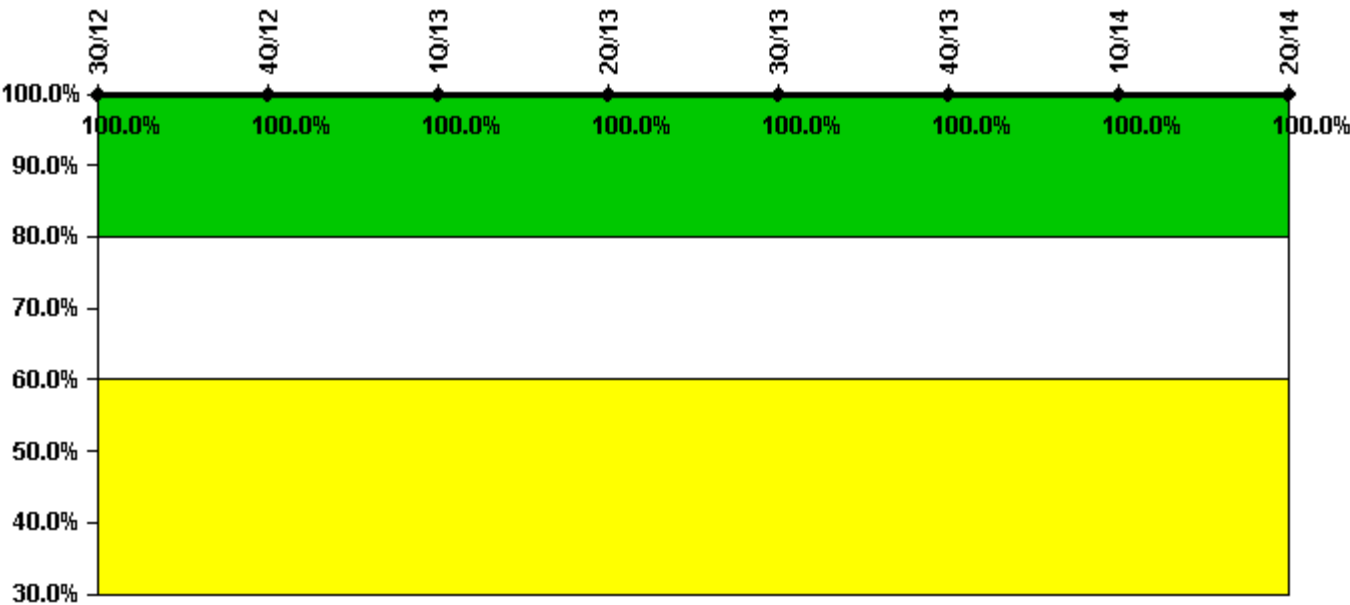
Notes

Drill/Exercise Performance	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful opportunities	374.0	266.0	101.0	298.0	291.0	127.0	50.0	108.0
Total opportunities	374.0	269.0	101.0	299.0	297.0	127.0	51.0	110.0
Indicator value	98.5%	98.6%	98.8%	98.9%	99.1%	99.3%	99.2%	99.2%

Licensee Comments:

4Q/12: Change to the November 2012 Shift Manager/control Room supervisor training events from 112/113 to 116/117.

ERO Drill Participation



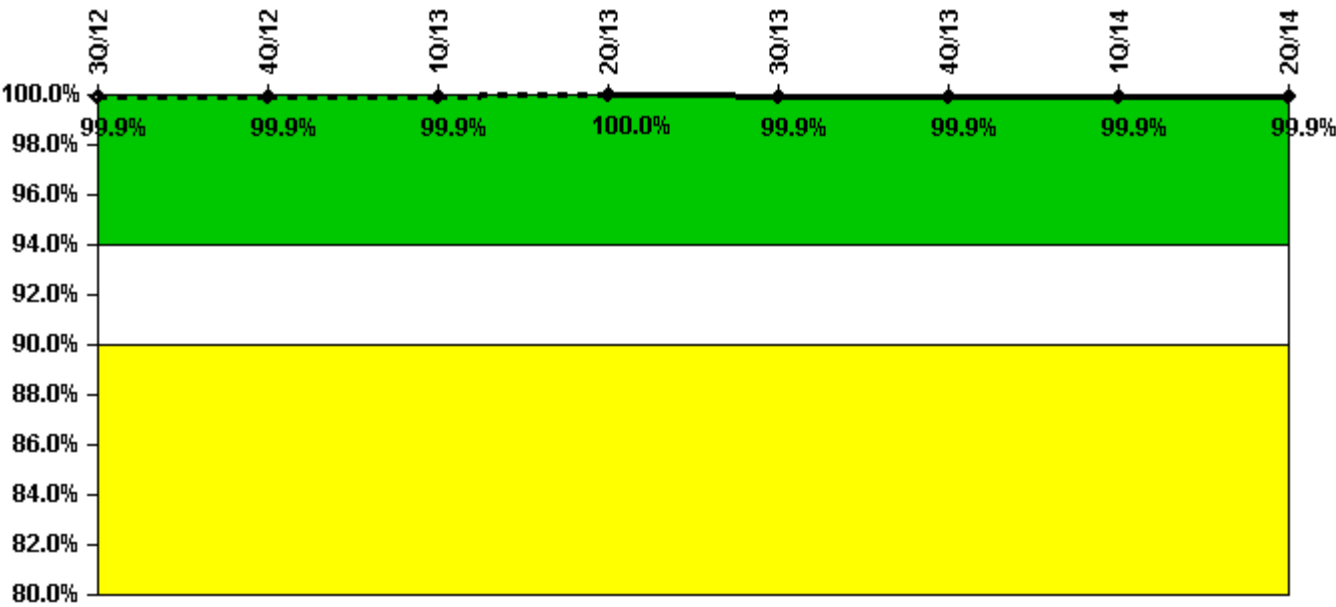
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Participating Key personnel	106.0	104.0	106.0	104.0	109.0	111.0	104.0	104.0
Total Key personnel	106.0	104.0	106.0	104.0	109.0	111.0	104.0	104.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



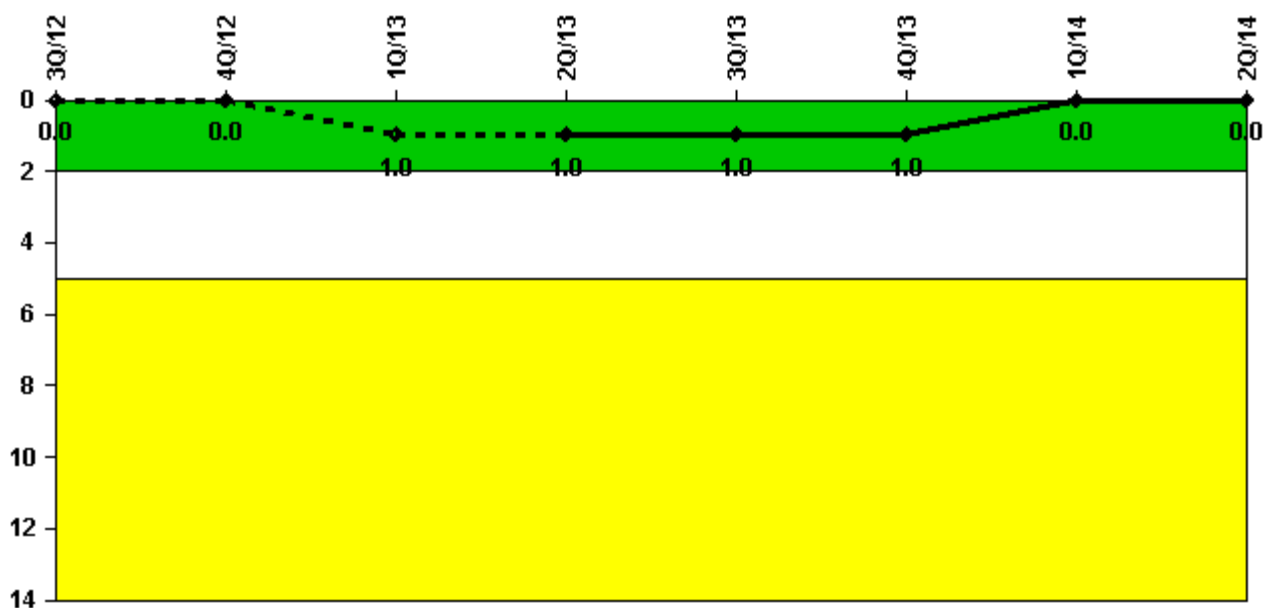
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful siren-tests	1415	577	1015	1077	936	1303	1148	1156
Total sirens-tests	1415	577	1015	1077	938	1304	1148	1158
Indicator value	99.9%	99.9%	99.9%	100.0%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



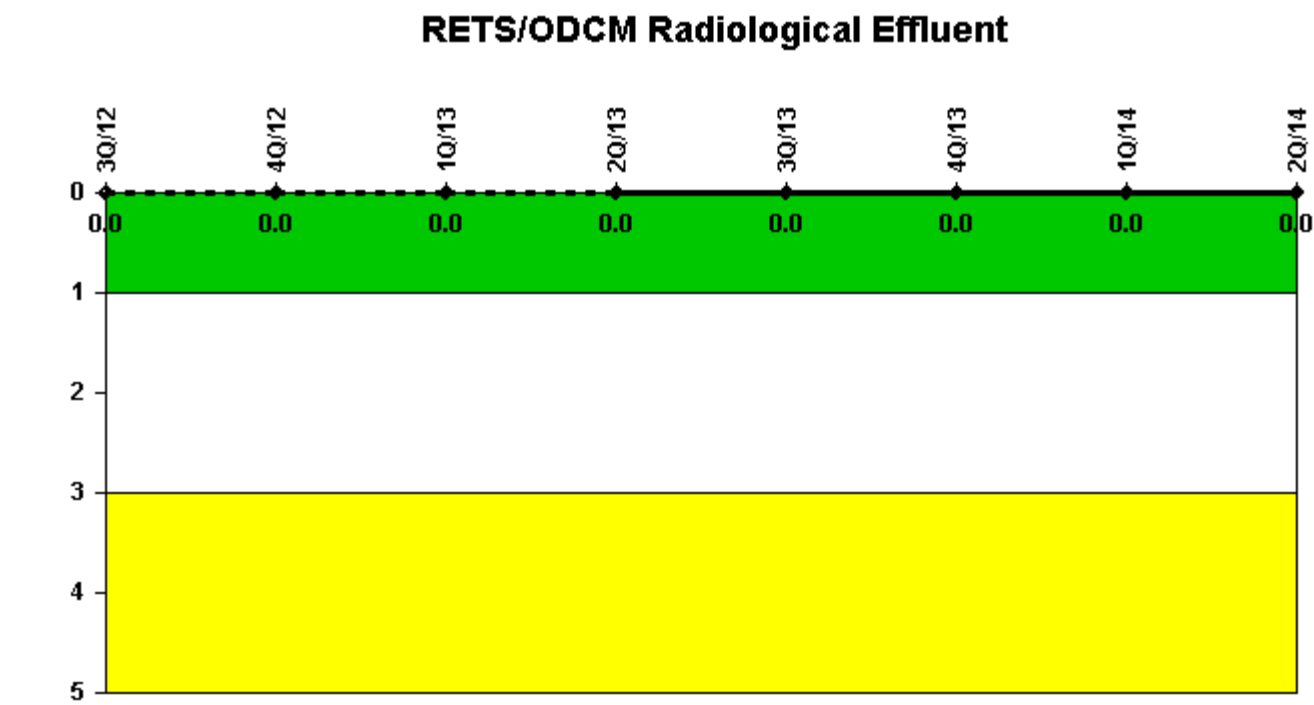
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
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:

1Q/13: Per reporting guidelines of NEI 99-02 recorded a count at unit 2 for an event at unit 3 where following shutdown for refueling outage 3R17 workers re-entered containment without an RP escort while the containment was posted as a locked high radiation area in non-compliance with RWP-2013-3028.



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

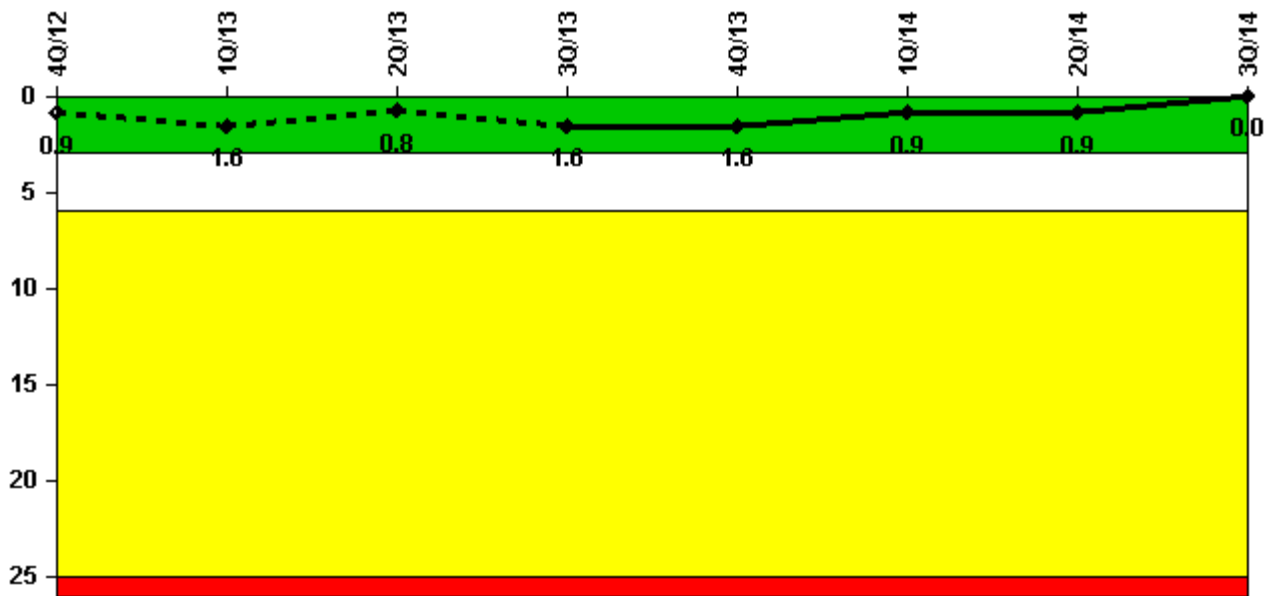
Indian Point 2

3Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

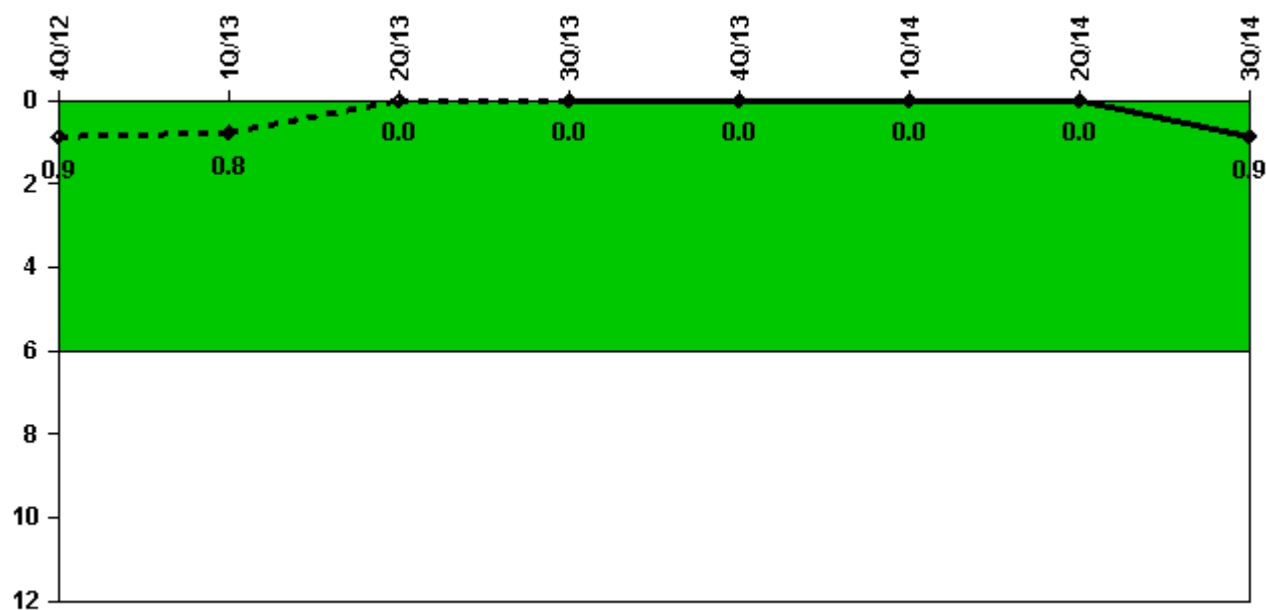
Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned scrams	0	1.0	0	1.0	0	0	0	0
Critical hours	2209.0	2107.1	2184.0	2189.3	2209.0	1619.8	2184.0	2208.0
Indicator value	0.9	1.6	0.8	1.6	1.6	0.9	0.9	0

Licensee Comments:

1Q/13: LER-2013-001 reported on April 15, 2013, a manual reactor trip on February 13, 2013, due to decreasing steam generator levels as a result of the trip of both heater drain tank pumps during AOV diagnostics testing.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

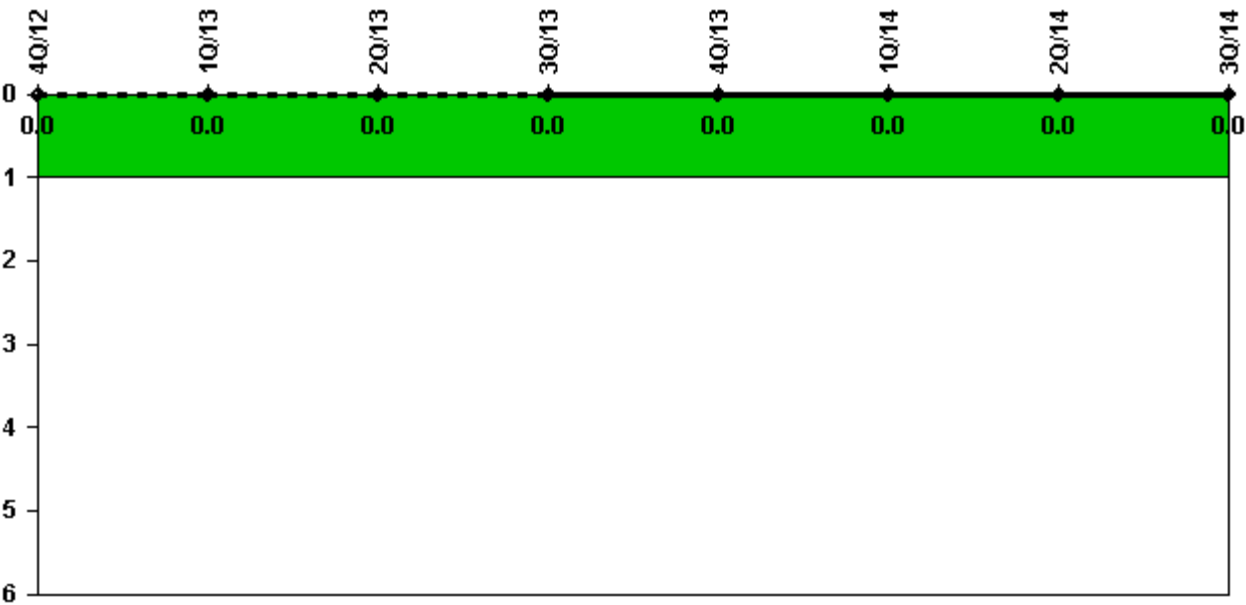
Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2209.0	2107.1	2184.0	2189.3	2209.0	1619.8	2184.0	2208.0
Indicator value	0.9	0.8	0	0	0	0	0	0.9

Licensee Comments:

3Q/14: Unplanned power change on September 18, 2014, due to Technical Specification required power change as a result of misaligned control rod/shutdown bank B during testing. Power reduced to approximately 70%.

Unplanned Scrams with Complications



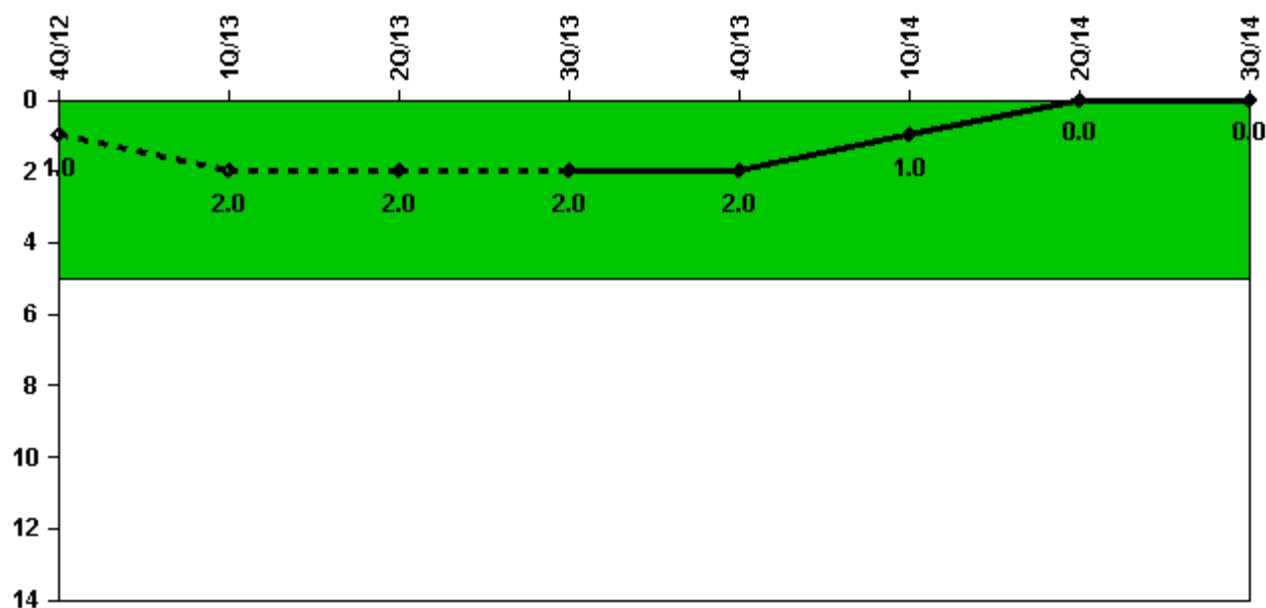
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

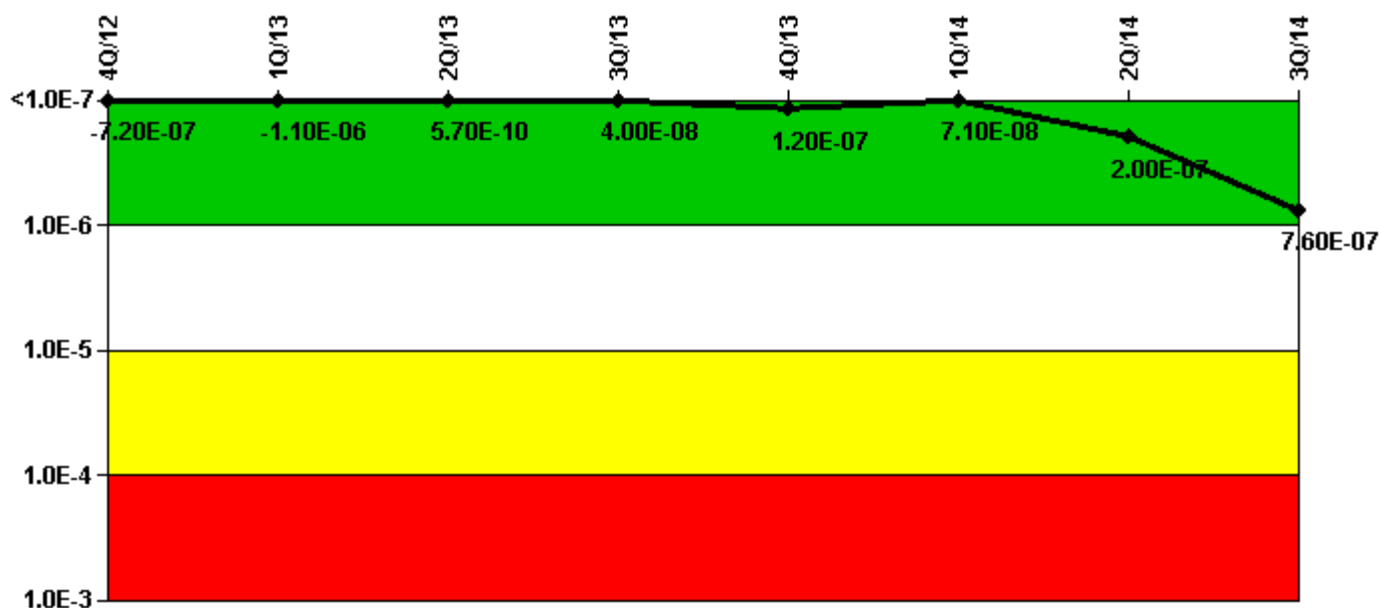
Safety System Functional Failures (PWR)	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Safety System Functional Failures	0	1	1	0	0	0	0	0
Indicator value	1	2	2	2	2	1	0	0

Licensee Comments:

2Q/13: LER-2013-002 reported on June 13, 2012, a SSFF of the onsite emergency diesel generators due to maintenance on the emergency fuel oil supply line during tagout of the normal fuel oil supply line.

1Q/13: LER-2012-009-00 reported on January 28, 2013, a safety system functional failure due to use of the Rad Bypass switch for steam generator blowdown isolation valves which defeats their automatic isolation for analyzed events. Equipment tag-out were discovered that placed all the SGBD isolation valves in Rad bypass while a moter driven auxiliary feedwater pump was out of service. Condition results in the inability to maintain SG inventory with continuous SGBD during heat sink events.

Mitigating Systems Performance Index, Emergency AC Power System



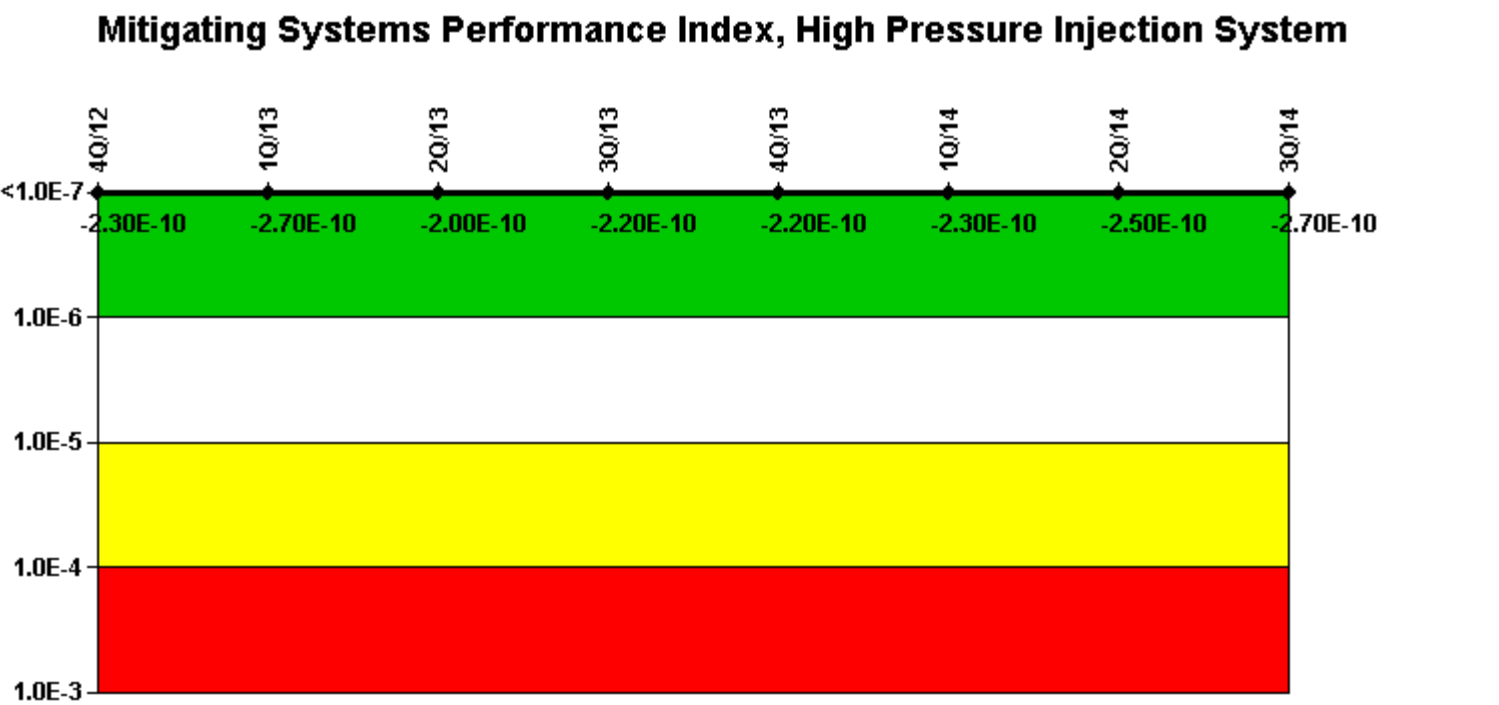
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (ΔCDF)	1.16E-07	1.05E-07	2.12E-07	2.29E-07	2.80E-07	2.73E-07	3.56E-07	3.65E-07
URI (ΔCDF)	-8.33E-07	-1.16E-06	-2.11E-07	-1.89E-07	-1.59E-07	-2.03E-07	-1.59E-07	3.93E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.20E-07	-1.10E-06	5.70E-10	4.00E-08	1.20E-07	7.10E-08	2.00E-07	7.60E-07

Licensee Comments:

3Q/14: Risk Cap Invoked. On September 12, 2014, a lube oil leak was discovered on the vitaulic coupling of the 23 EDG during post maintenance testing. EDG secured. MSPI Run Failure.



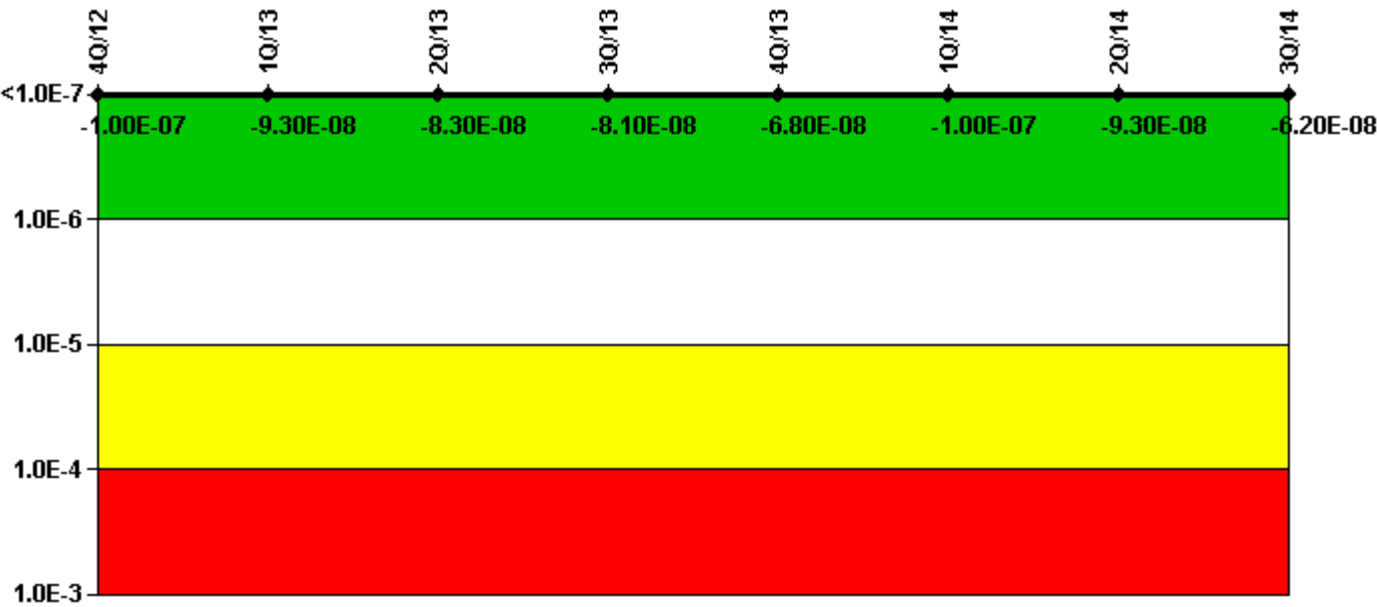
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (ΔCDF)	1.50E-11	-2.24E-11	6.29E-11	5.22E-11	5.76E-11	6.60E-11	5.21E-11	5.05E-11
URI (ΔCDF)	-2.41E-10	-2.48E-10	-2.61E-10	-2.71E-10	-2.78E-10	-2.92E-10	-3.05E-10	-3.19E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-10	-2.70E-10	-2.00E-10	-2.20E-10	-2.20E-10	-2.30E-10	-2.50E-10	-2.70E-10

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

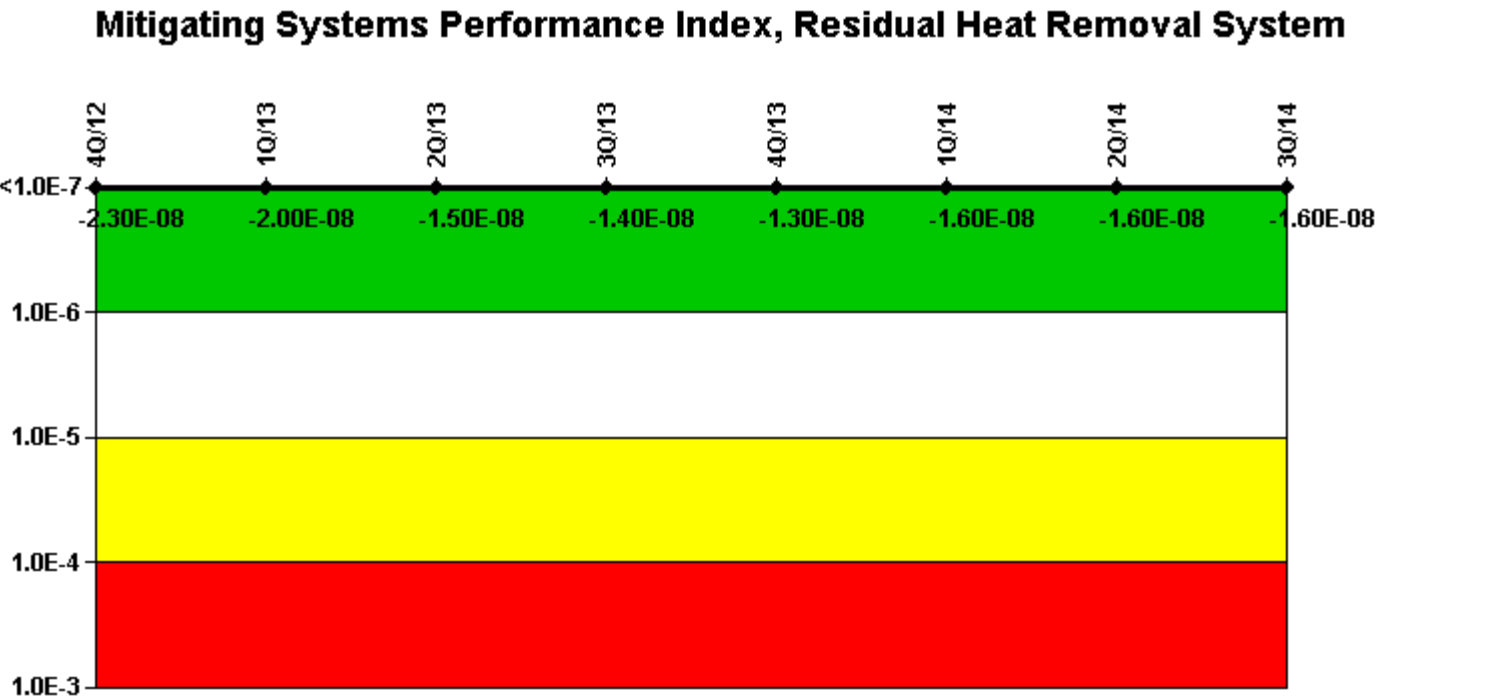


Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (ΔCDF)	-9.66E-09	-2.41E-08	-2.93E-08	-2.99E-08	-2.98E-08	-2.85E-08	-2.72E-08	3.81E-09
URI (ΔCDF)	-9.09E-08	-6.87E-08	-5.37E-08	-5.07E-08	-3.86E-08	-7.36E-08	-6.60E-08	-6.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.00E-07	-9.30E-08	-8.30E-08	-8.10E-08	-6.80E-08	-1.00E-07	-9.30E-08	-6.20E-08

Licensee Comments: none



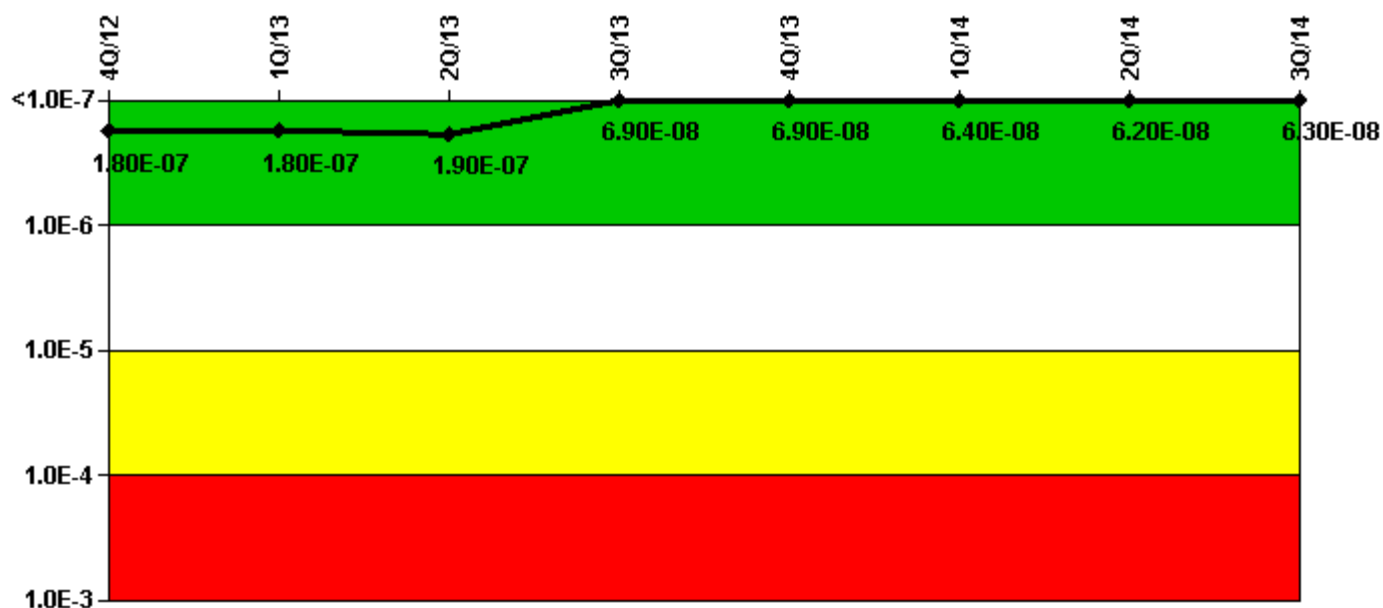
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (ΔCDF)	-8.67E-09	-8.69E-09	-4.05E-09	-4.17E-09	-4.03E-09	-3.91E-09	-3.97E-09	-3.97E-09
URI (ΔCDF)	-1.41E-08	-1.13E-08	-1.06E-08	-9.89E-09	-9.12E-09	-1.17E-08	-1.17E-08	-1.17E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-08	-2.00E-08	-1.50E-08	-1.40E-08	-1.30E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



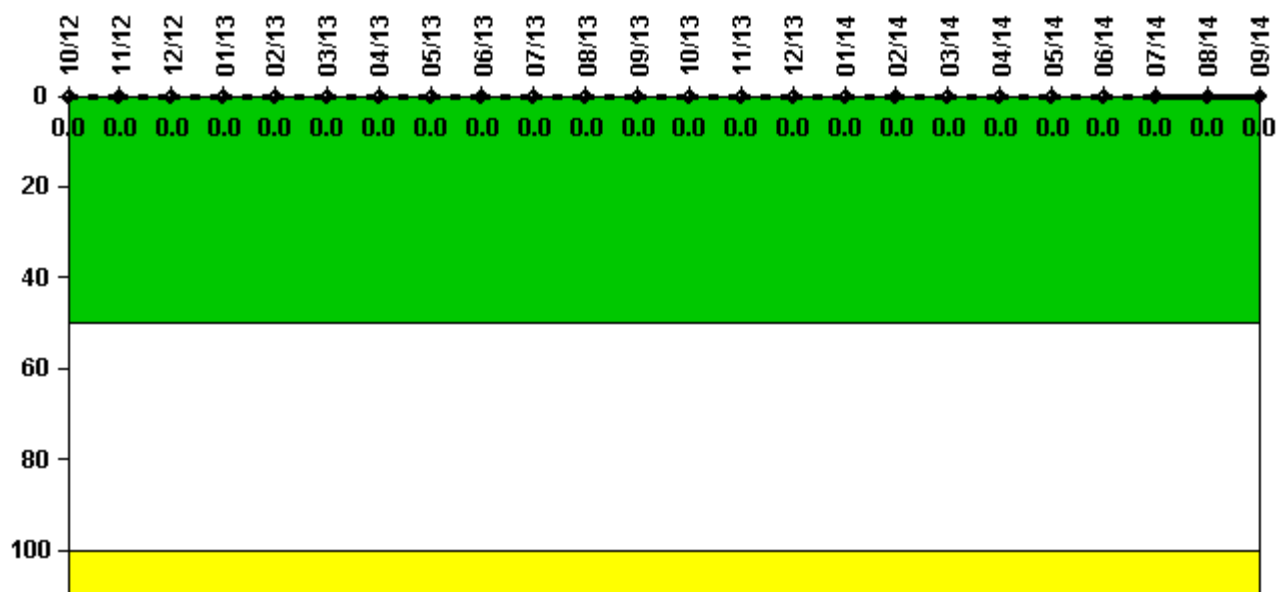
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (Δ CDF)	5.13E-09	5.22E-09	4.90E-09	2.65E-09	-1.93E-09	-3.47E-09	-3.28E-09	-3.61E-09
URI (Δ CDF)	1.77E-07	1.79E-07	1.81E-07	6.67E-08	7.05E-08	6.71E-08	6.55E-08	6.66E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.80E-07	1.80E-07	1.90E-07	6.90E-08	6.90E-08	6.40E-08	6.20E-08	6.30E-08

Licensee Comments: none

Reactor Coolant System Activity



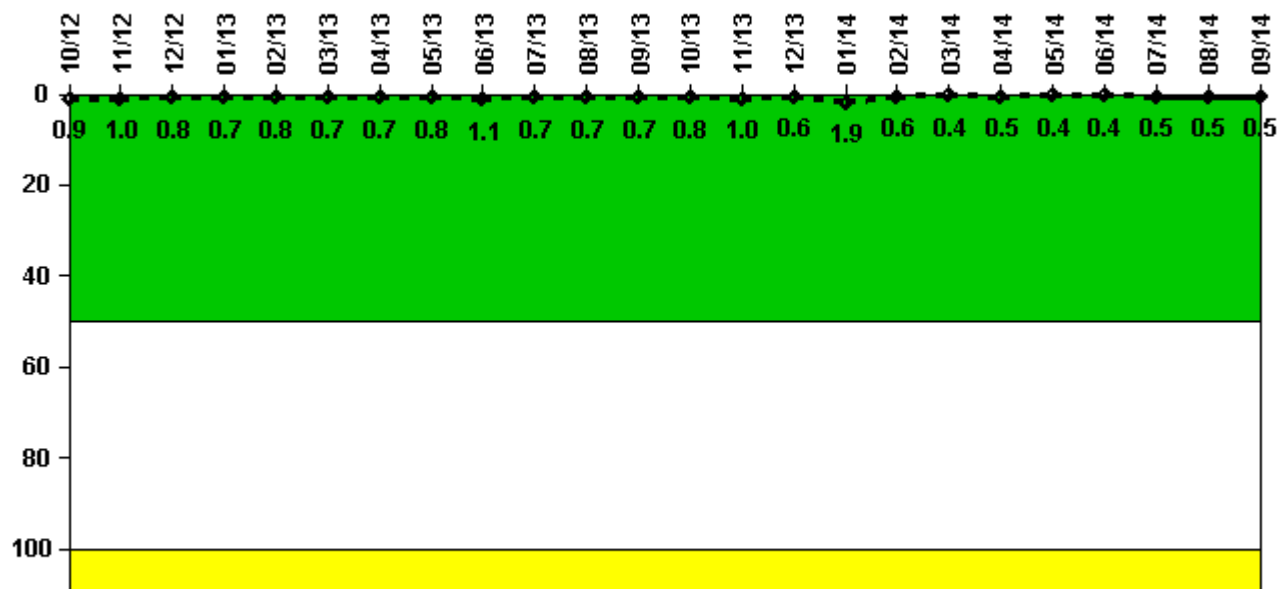
Thresholds: White > 50.0 Yellow > 100.0

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	0.000234	0.000218	0.000232	0.000244	0.000267	0.000246	0.000247	0.000280	0.000239	0.000258	0.000239	0.000204
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum activity	0.000257	0.000273	0.000276	0.000278	0.000334	0.000125	0.000159	0.000133	0.000165	0.000153	0.000141	0.000148
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage

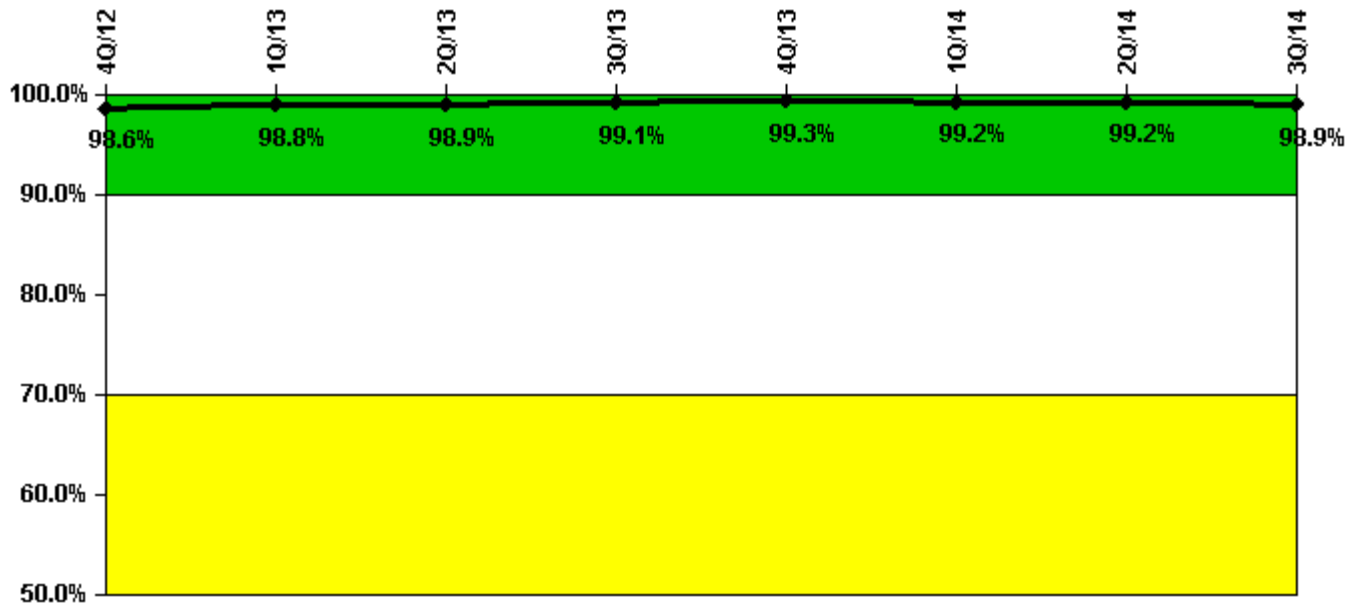


Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum leakage	0.090	0.100	0.080	0.070	0.080	0.070	0.073	0.080	0.110	0.071	0.070	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.9	1.0	0.8	0.7	0.8	0.7	0.7	0.8	1.1	0.7	0.7	0.7
Reactor Coolant System Leakage	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum leakage	0.080	0.100	0.060	0.190	0.060	0.040	0.050	0.040	0.040	0.050	0.050	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.8	1.0	0.6	1.9	0.6	0.4	0.5	0.4	0.4	0.5	0.5	0.5

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

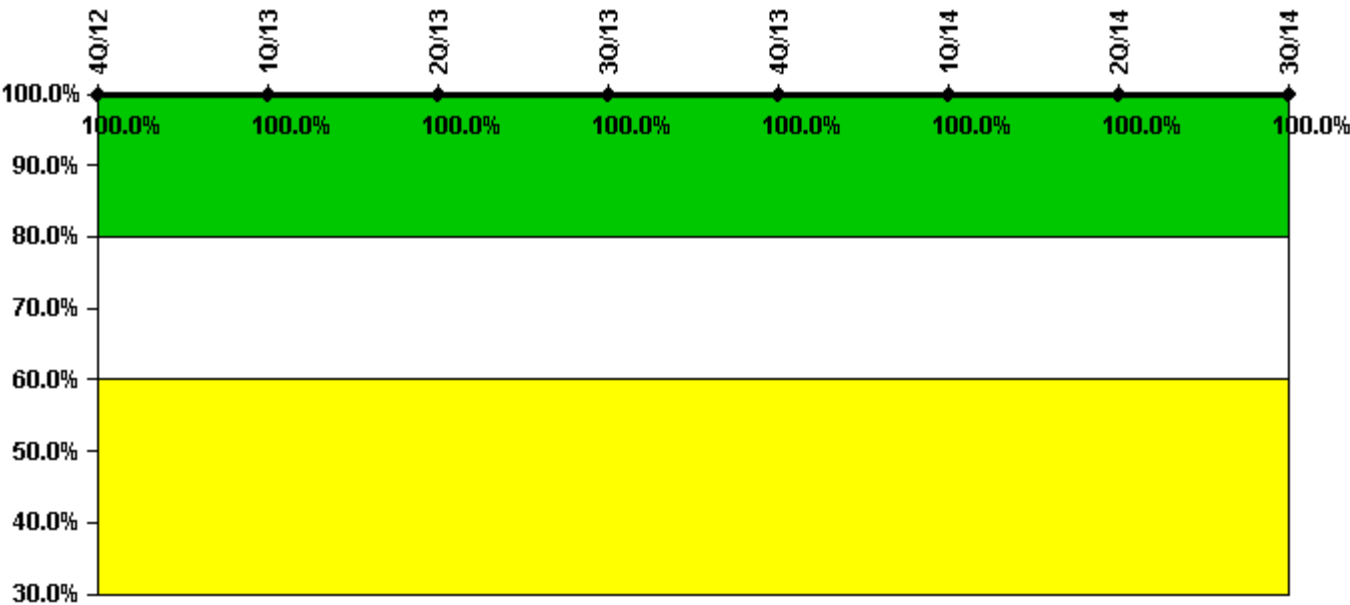
Notes

Drill/Exercise Performance	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful opportunities	266.0	101.0	298.0	291.0	127.0	50.0	108.0	200.0
Total opportunities	269.0	101.0	299.0	297.0	127.0	51.0	110.0	203.0
Indicator value	98.6%	98.8%	98.9%	99.1%	99.3%	99.2%	99.2%	98.9%

Licensee Comments:

4Q/12: Change to the November 2012 Shift Manager/control Room supervisor training events from 112/113 to 116/117.

ERO Drill Participation



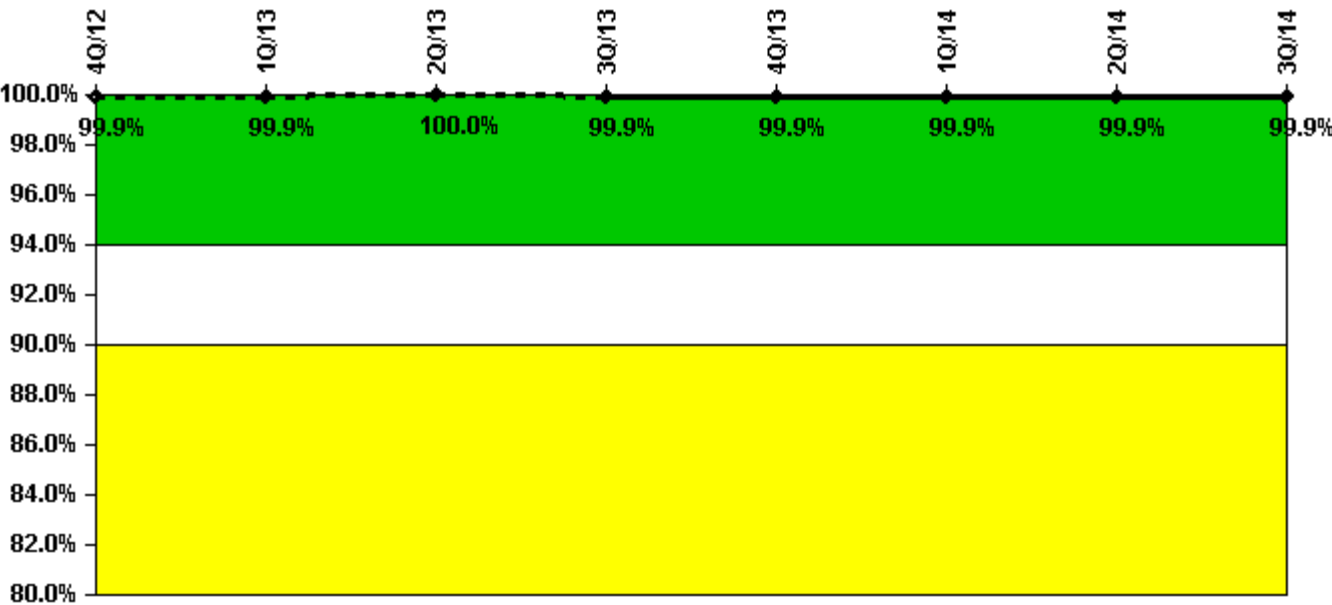
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Participating Key personnel	104.0	106.0	104.0	109.0	111.0	104.0	104.0	100.0
Total Key personnel	104.0	106.0	104.0	109.0	111.0	104.0	104.0	100.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



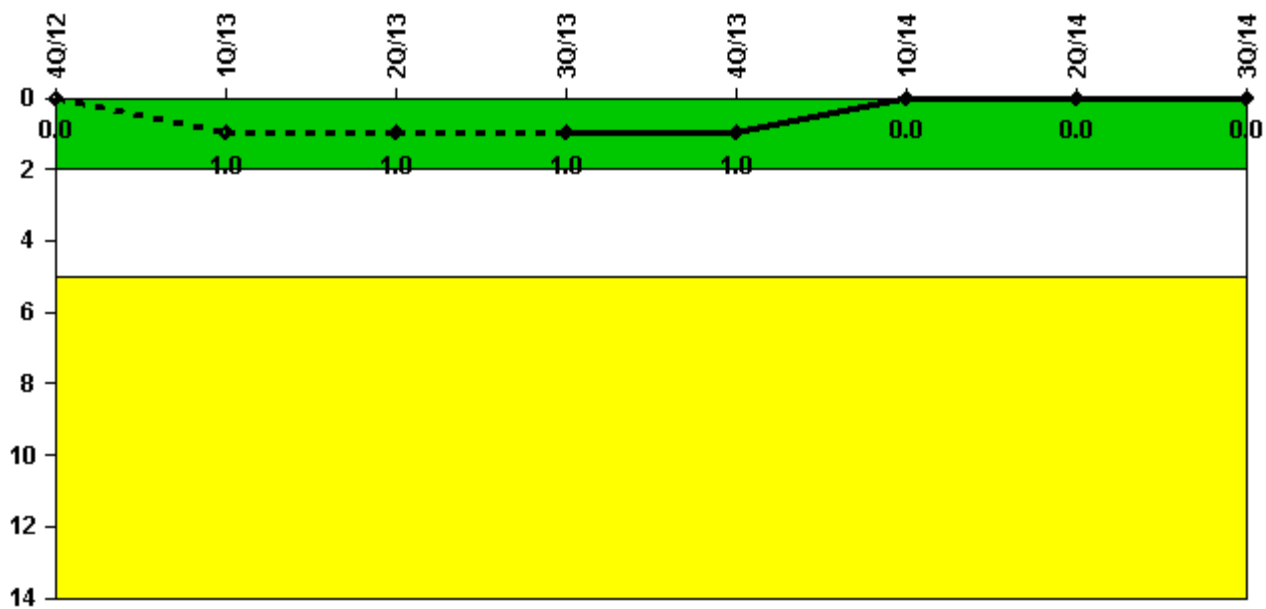
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful siren-tests	577	1015	1077	936	1303	1148	1156	1187
Total sirens-tests	577	1015	1077	938	1304	1148	1158	1187
Indicator value	99.9%	99.9%	100.0%	99.9%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



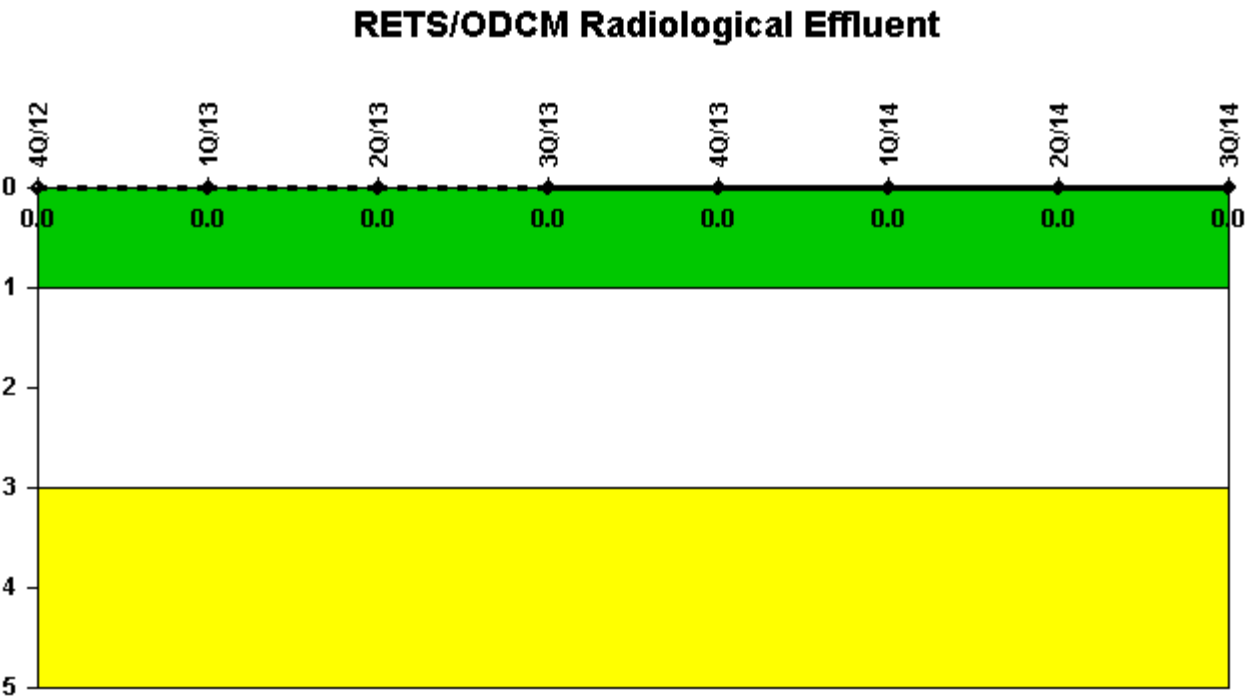
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
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:

1Q/13: Per reporting guidelines of NEI 99-02 recorded a count at unit 2 for an event at unit 3 where following shutdown for refueling outage 3R17 workers re-entered containment without an RP escort while the containment was posted as a locked high radiation area in non-compliance with RWP-2013-3028.



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

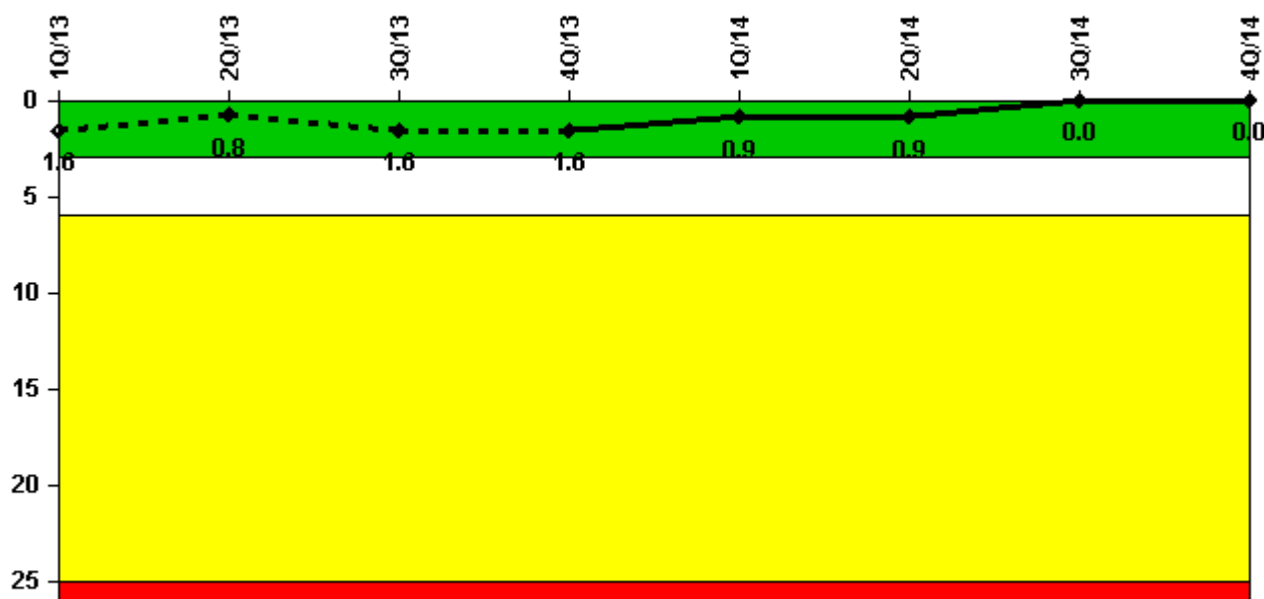
Indian Point 2

4Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: PI EP01: Change to Drill/Exercise Performance for January 2013 to correct for SM/CR Supervisor training from 100/100 to 102/102 for number of drill, exercise and actual event opportunities performed timely and accurately. PI PP01: Change to PA Equipment Performance from 12.3 comp hours to 329.6 comp hours to account for excluded comp hours determined not allowed.

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

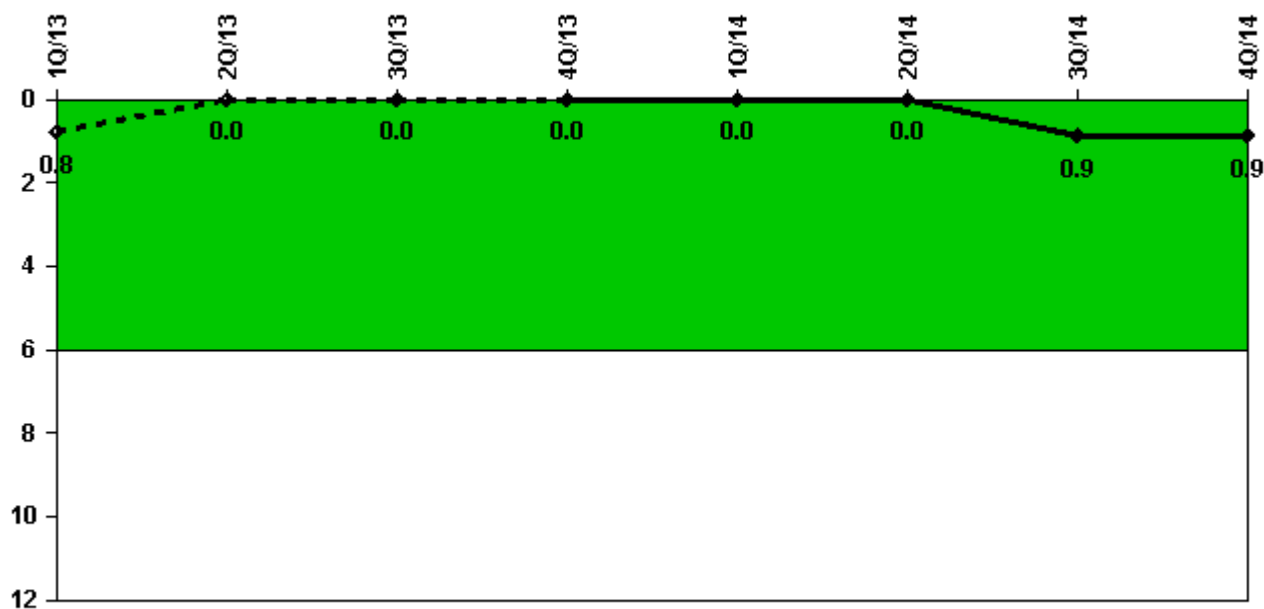
Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned scrams	1.0	0	1.0	0	0	0	0	0
Critical hours	2107.1	2184.0	2189.3	2209.0	1619.8	2184.0	2208.0	2209.0
Indicator value	1.6	0.8	1.6	1.6	0.9	0.9	0	0

Licensee Comments:

1Q/13: LER-2013-001 reported on April 15, 2013, a manual reactor trip on February 13, 2013, due to decreasing steam generator levels as a result of the trip of both heater drain tank pumps during AOV diagnostics testing.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

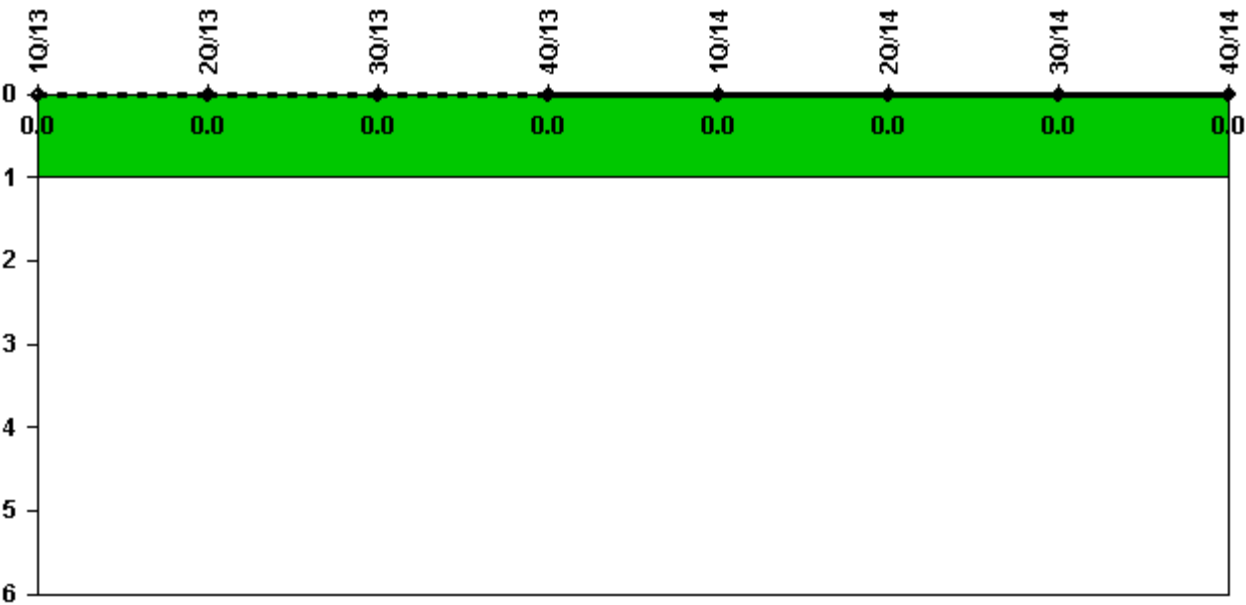
Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2107.1	2184.0	2189.3	2209.0	1619.8	2184.0	2208.0	2209.0
Indicator value	0.8	0	0	0	0	0	0.9	0.9

Licensee Comments:

3Q/14: Unplanned power change on September 18, 2014, due to Technical Specification required power change as a result of misaligned control rod/shutdown bank B during testing. Power reduced to approximately 70%.

Unplanned Scrams with Complications



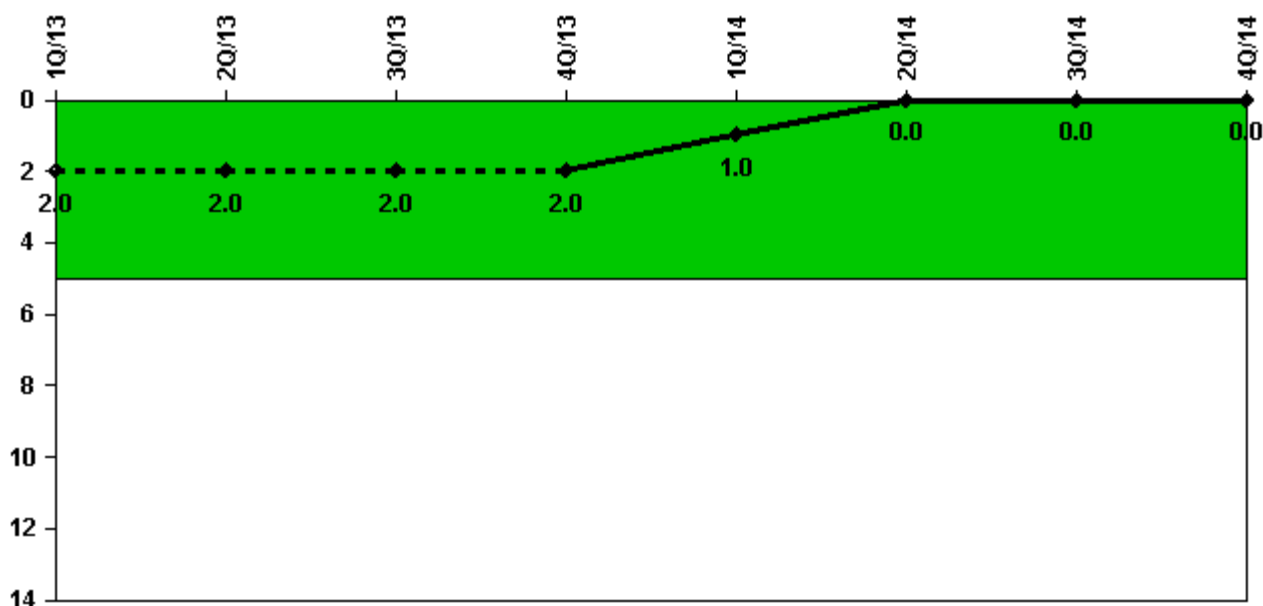
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

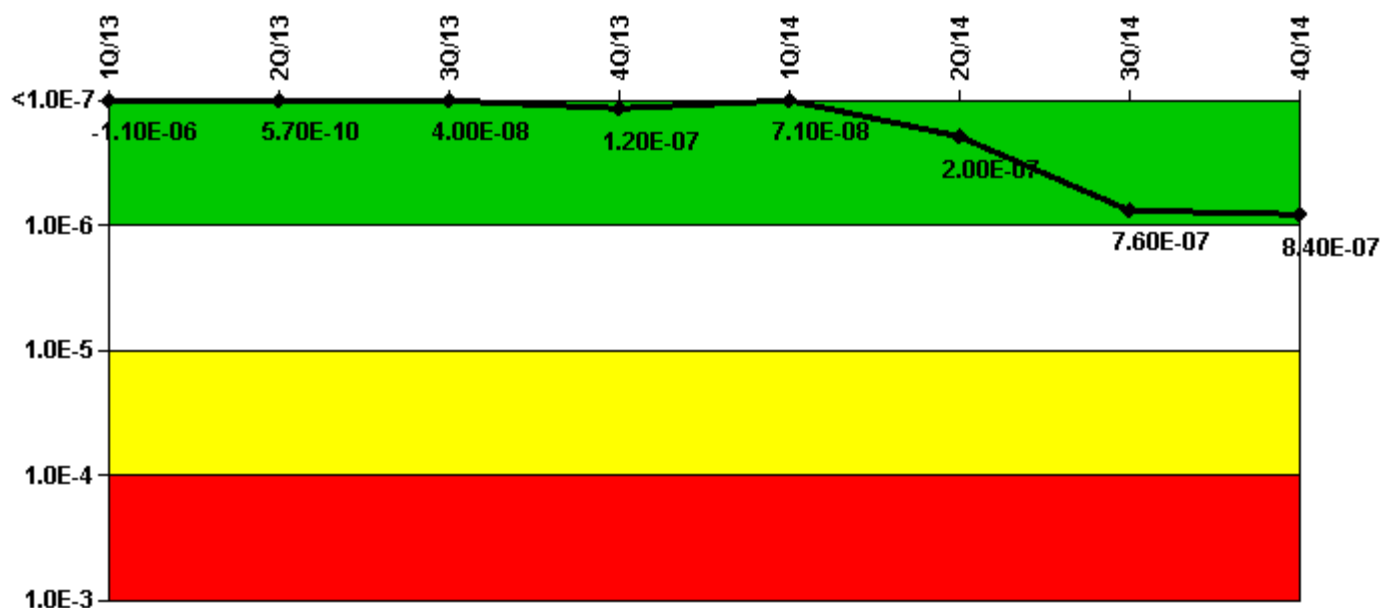
Safety System Functional Failures (PWR)	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Safety System Functional Failures	1	1	0	0	0	0	0	0
Indicator value	2	2	2	2	1	0	0	0

Licensee Comments:

2Q/13: LER-2013-002 reported on June 13, 2012, a SSFF of the onsite emergency diesel generators due to maintenance on the emergency fuel oil supply line during tagout of the normal fuel oil supply line.

1Q/13: LER-2012-009-00 reported on January 28, 2013, a safety system functional failure due to use of the Rad Bypass switch for steam generator blowdown isolation valves which defeats their automatic isolation for analyzed events. Equipment tag-out were discovered that placed all the SGBD isolation valves in Rad bypass while a moter driven auxiliary feedwater pump was out of service. Condition results in the inability to maintain SG inventory with continuous SGBD during heat sink events.

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (ΔCDF)	1.05E-07	2.12E-07	2.29E-07	2.80E-07	2.73E-07	3.56E-07	3.65E-07	4.23E-07
URI (ΔCDF)	-1.16E-06	-2.11E-07	-1.89E-07	-1.59E-07	-2.03E-07	-1.59E-07	3.93E-07	4.15E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-06	5.70E-10	4.00E-08	1.20E-07	7.10E-08	2.00E-07	7.60E-07	8.40E-07

Licensee Comments:

4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked. On September 12, 2014, a lube oil leak was discovered on the vitaulic coupling of the 23 EDG during post maintenance testing. EDG secured. MSPI Run Failure.

Mitigating Systems Performance Index, High Pressure Injection System



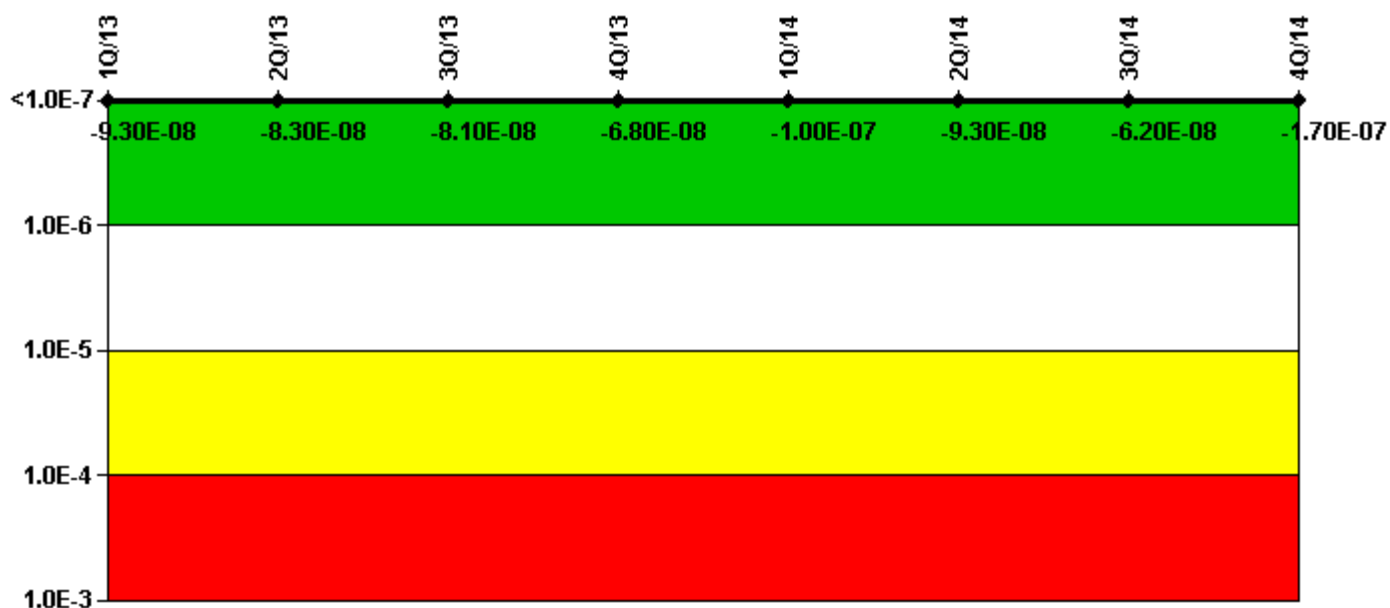
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-2.24E-11	6.29E-11	5.22E-11	5.76E-11	6.60E-11	5.21E-11	5.05E-11	-3.50E-11
URI (Δ CDF)	-2.48E-10	-2.61E-10	-2.71E-10	-2.78E-10	-2.92E-10	-3.05E-10	-3.19E-10	-3.27E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.70E-10	-2.00E-10	-2.20E-10	-2.20E-10	-2.30E-10	-2.50E-10	-2.70E-10	-3.60E-10

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



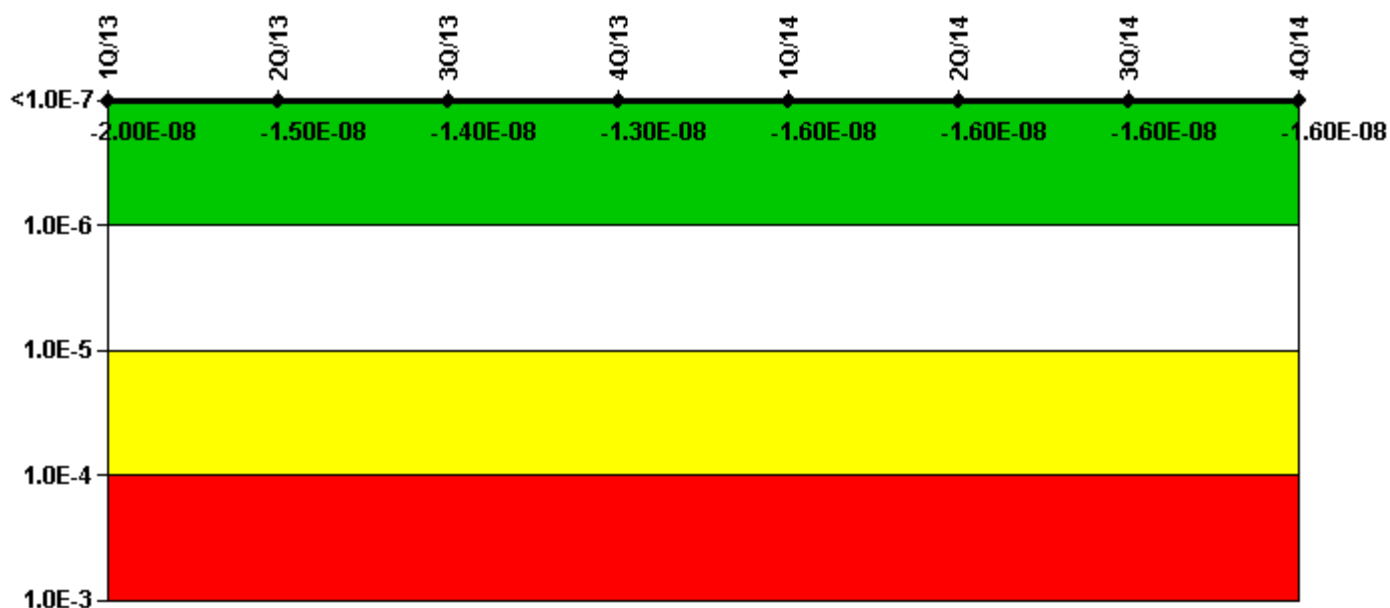
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	-2.41E-08	-2.93E-08	-2.99E-08	-2.98E-08	-2.85E-08	-2.72E-08	3.81E-09	2.10E-08
URI (Δ CDF)	-6.87E-08	-5.37E-08	-5.07E-08	-3.86E-08	-7.36E-08	-6.60E-08	-6.59E-08	-1.93E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.30E-08	-8.30E-08	-8.10E-08	-6.80E-08	-1.00E-07	-9.30E-08	-6.20E-08	-1.70E-07

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



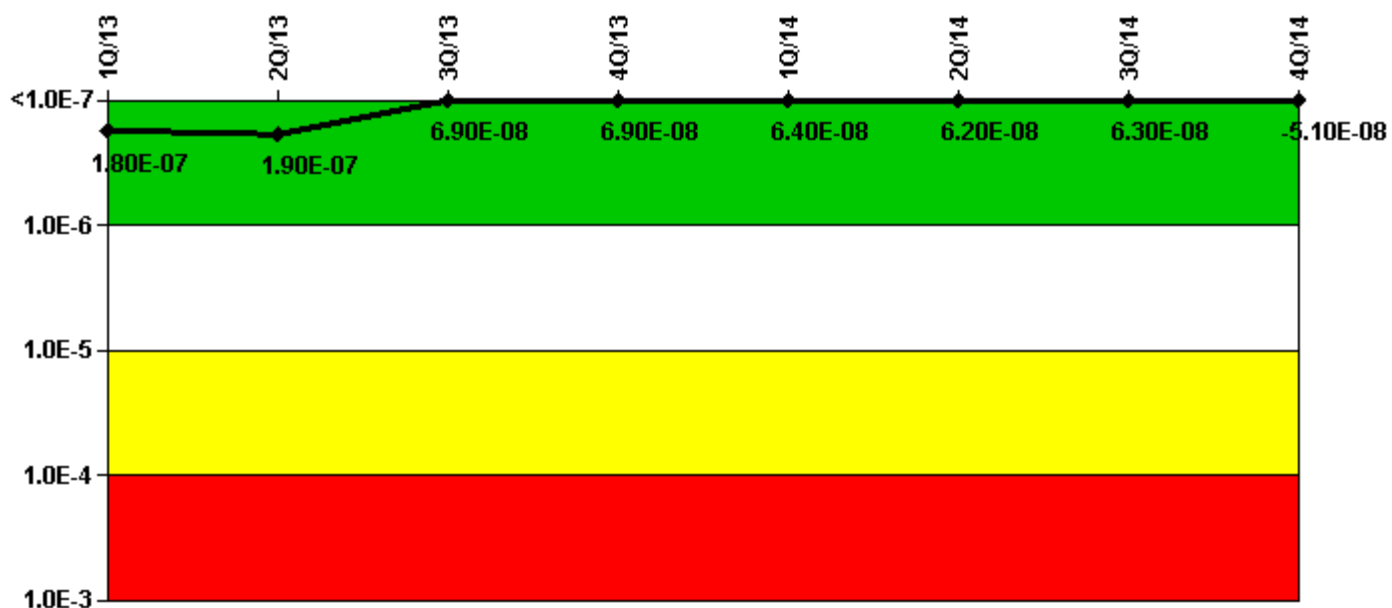
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	-8.69E-09	-4.05E-09	-4.17E-09	-4.03E-09	-3.91E-09	-3.97E-09	-3.97E-09	-4.19E-09
URI (Δ CDF)	-1.13E-08	-1.06E-08	-9.89E-09	-9.12E-09	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-08	-1.50E-08	-1.40E-08	-1.30E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



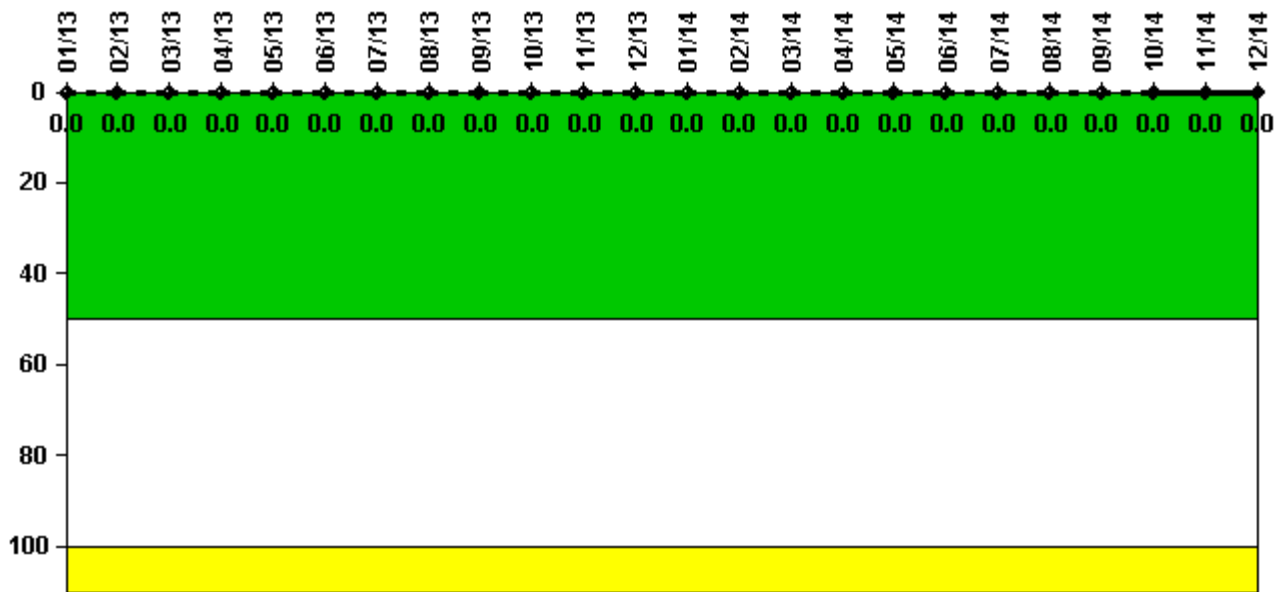
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
UAI (Δ CDF)	5.22E-09	4.90E-09	2.65E-09	-1.93E-09	-3.47E-09	-3.28E-09	-3.61E-09	-4.38E-09
URI (Δ CDF)	1.79E-07	1.81E-07	6.67E-08	7.05E-08	6.71E-08	6.55E-08	6.66E-08	-4.68E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.80E-07	1.90E-07	6.90E-08	6.90E-08	6.40E-08	6.20E-08	6.30E-08	-5.10E-08

Licensee Comments: none

Reactor Coolant System Activity



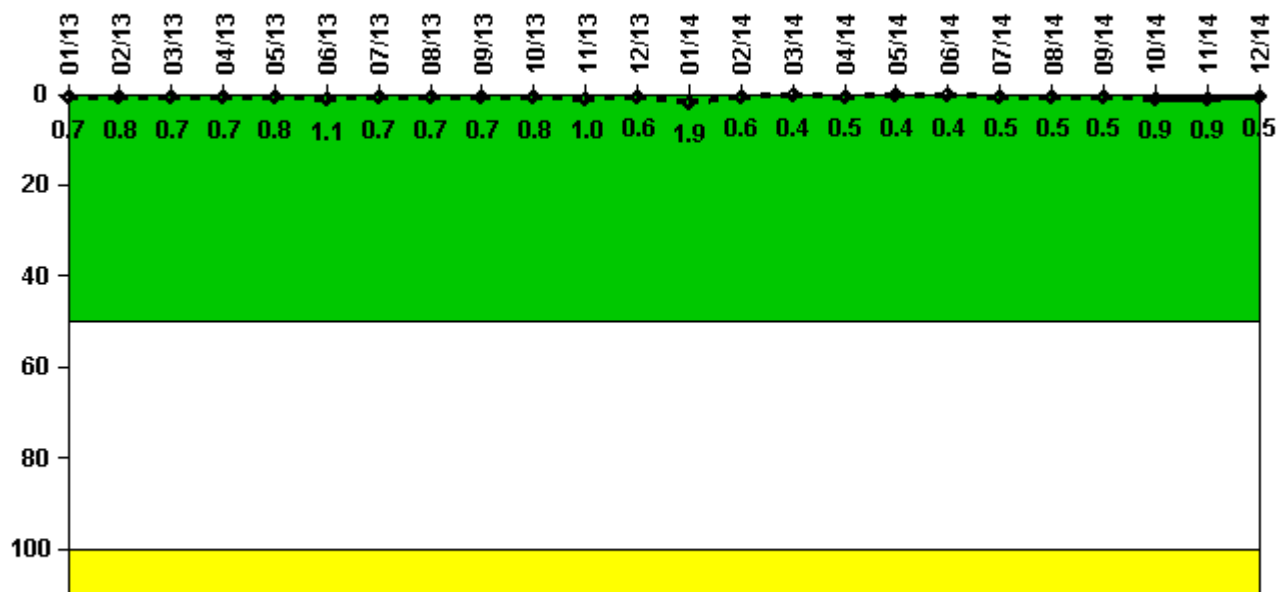
Thresholds: White > 50.0 Yellow > 100.0

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	0.000244	0.000267	0.000246	0.000247	0.000280	0.000239	0.000258	0.000239	0.000204	0.000257	0.000273	0.000276
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum activity	0.000278	0.000334	0.000125	0.000159	0.000133	0.000165	0.000153	0.000141	0.000148	0.000158	0.000170	0.000175
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



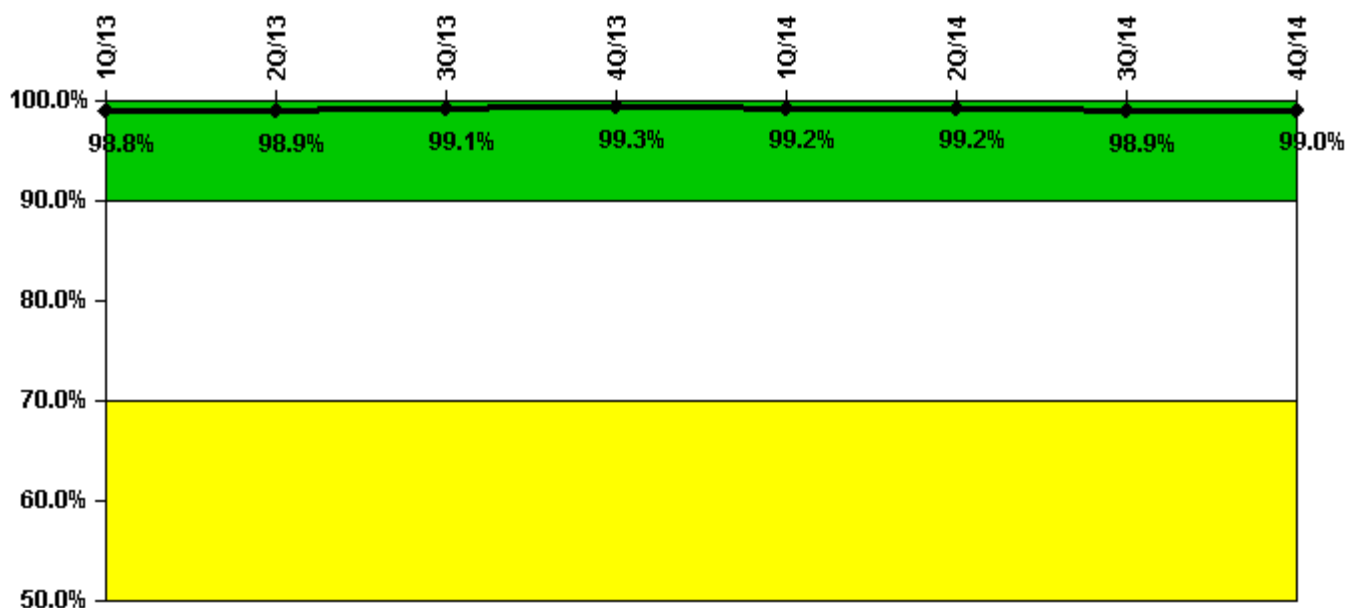
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum leakage	0.070	0.080	0.070	0.073	0.080	0.110	0.071	0.070	0.070	0.080	0.100	0.060
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.8	0.7	0.7	0.8	1.1	0.7	0.7	0.7	0.8	1.0	0.6
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	0.190	0.060	0.040	0.050	0.040	0.040	0.050	0.050	0.050	0.090	0.090	0.053
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.9	0.6	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.9	0.9	0.5

Licensee Comments: none

Drill/Exercise Performance



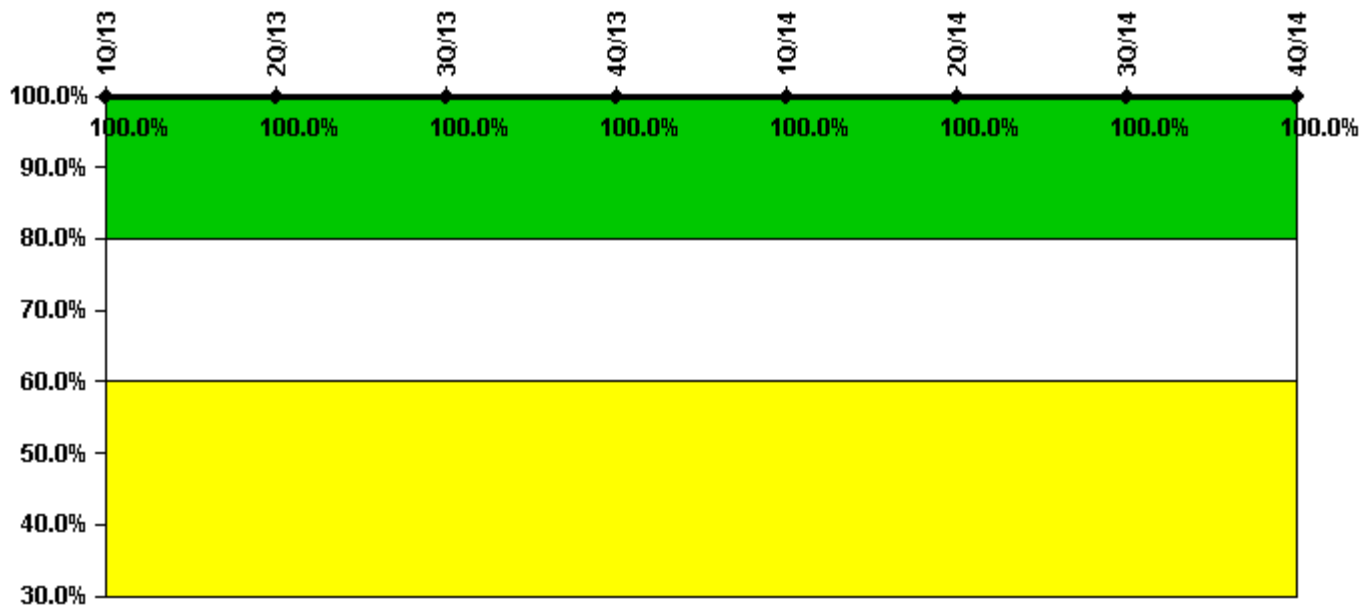
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful opportunities	101.0	300.0	291.0	127.0	50.0	108.0	200.0	109.0
Total opportunities	101.0	301.0	297.0	127.0	51.0	110.0	203.0	109.0
Indicator value	98.8%	98.9%	99.1%	99.3%	99.2%	99.2%	98.9%	99.0%

Licensee Comments: none

ERO Drill Participation



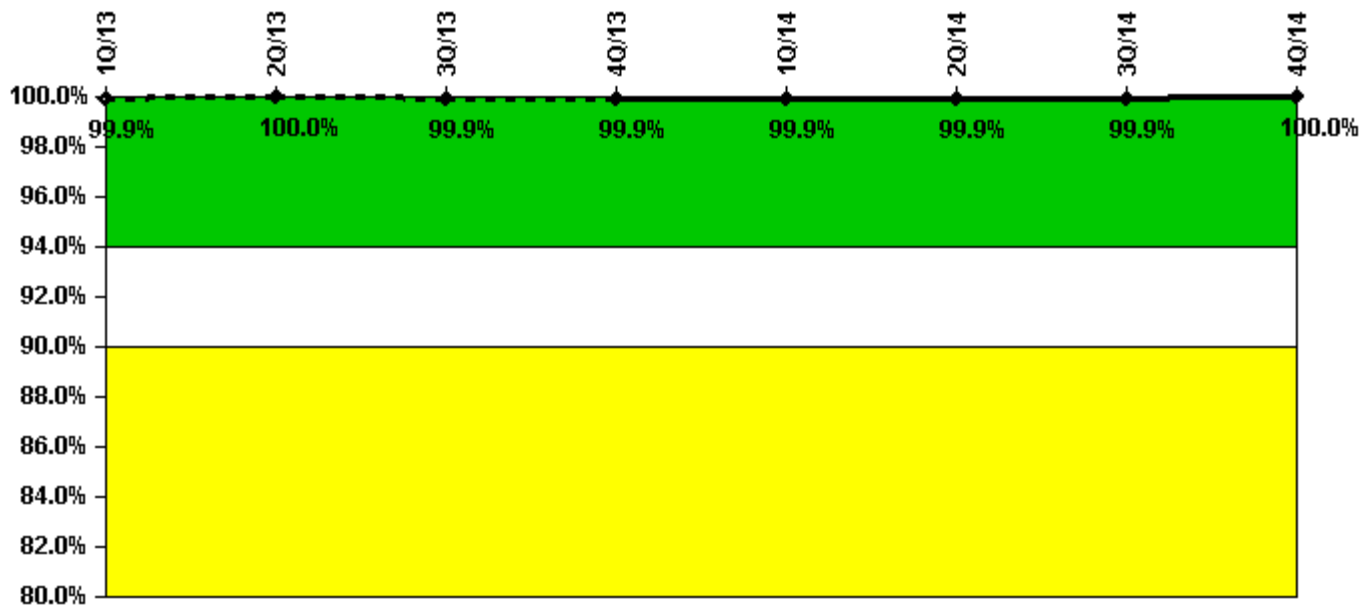
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Participating Key personnel	106.0	104.0	109.0	111.0	104.0	104.0	100.0	106.0
Total Key personnel	106.0	104.0	109.0	111.0	104.0	104.0	100.0	106.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



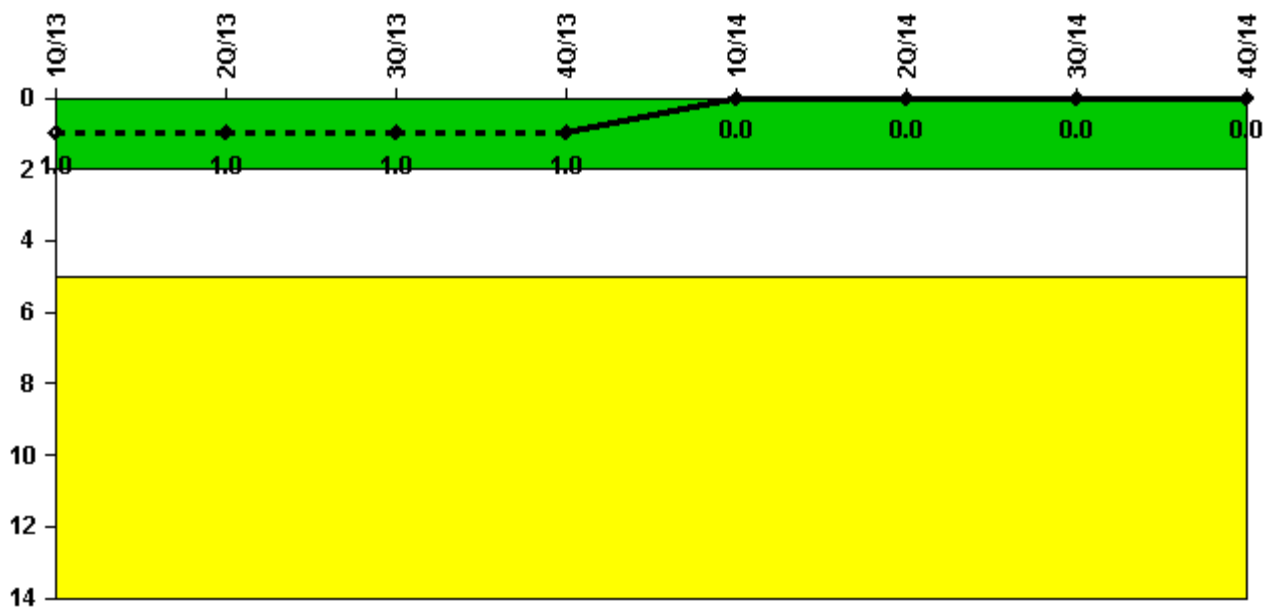
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful siren-tests	1015	1077	936	1303	1148	1156	1187	1181
Total sirens-tests	1015	1077	938	1304	1148	1158	1187	1181
Indicator value	99.9%	100.0%	99.9%	99.9%	99.9%	99.9%	99.9%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



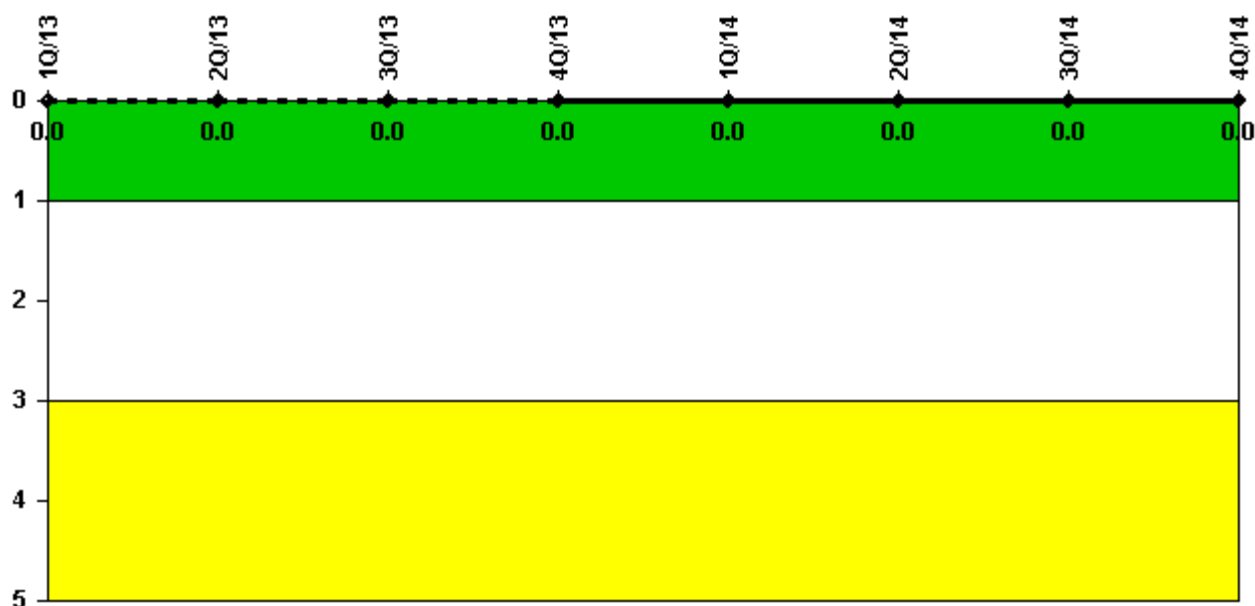
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
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:

1Q/13: Per reporting guidelines of NEI 99-02 recorded a count at unit 2 for an event at unit 3 where following shutdown for refueling outage 3R17 workers re-entered containment without an RP escort while the containment was posted as a locked high radiation area in non-compliance with RWP-2013-3028.

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



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

Last Modified: February 3, 2015

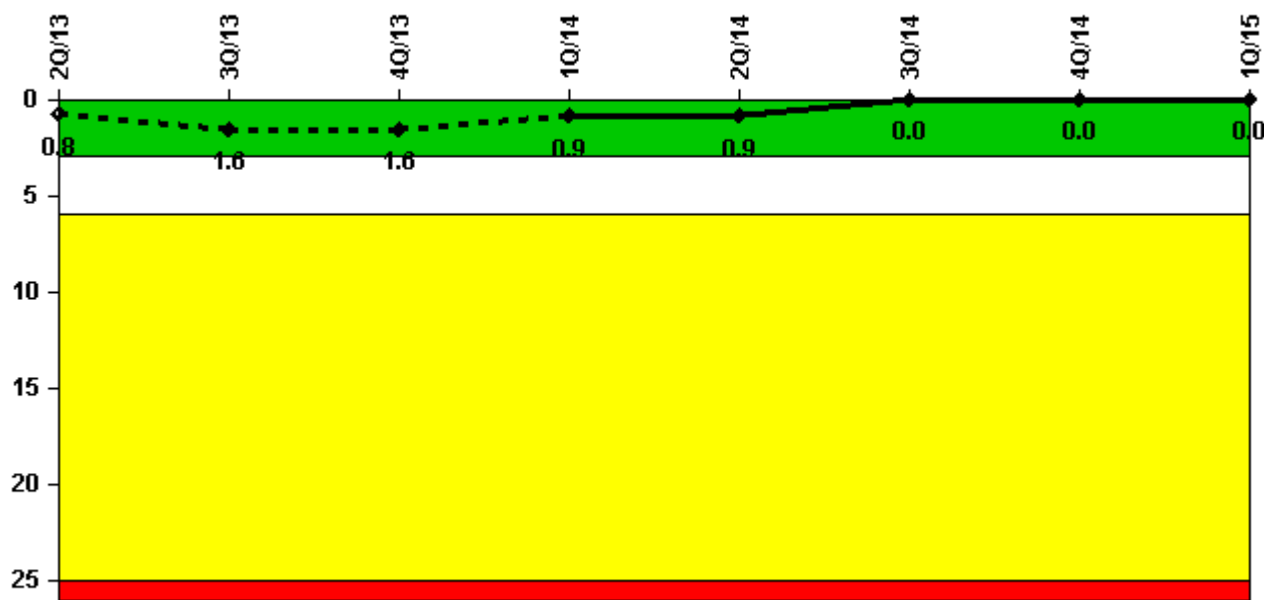
Indian Point 2

1Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: EP01: Change for June 2014 to account for 2 missed Shift Manager opportunities, EP03: Change November, December 2013 to remove an extra silent test in Westchester Co which should not have been counted, EP03: Change May, June 2014 updated for removing 77 opportunities as test was not performed when scheduled and considered missed silent test at Westchester Co., EP03: July, August, September 2014 updated to include 16 failures on silent test conducted in Putnam Co. and removed 77 opportunities as test was not performed when scheduled and considered a missed silent test at Westchester Co., EP03: November, December 2014 updated for removal of 77 opportunities as test was not performed when scheduled and considered a missed silent test at Westchester Co.

Unplanned Scrams per 7000 Critical Hrs



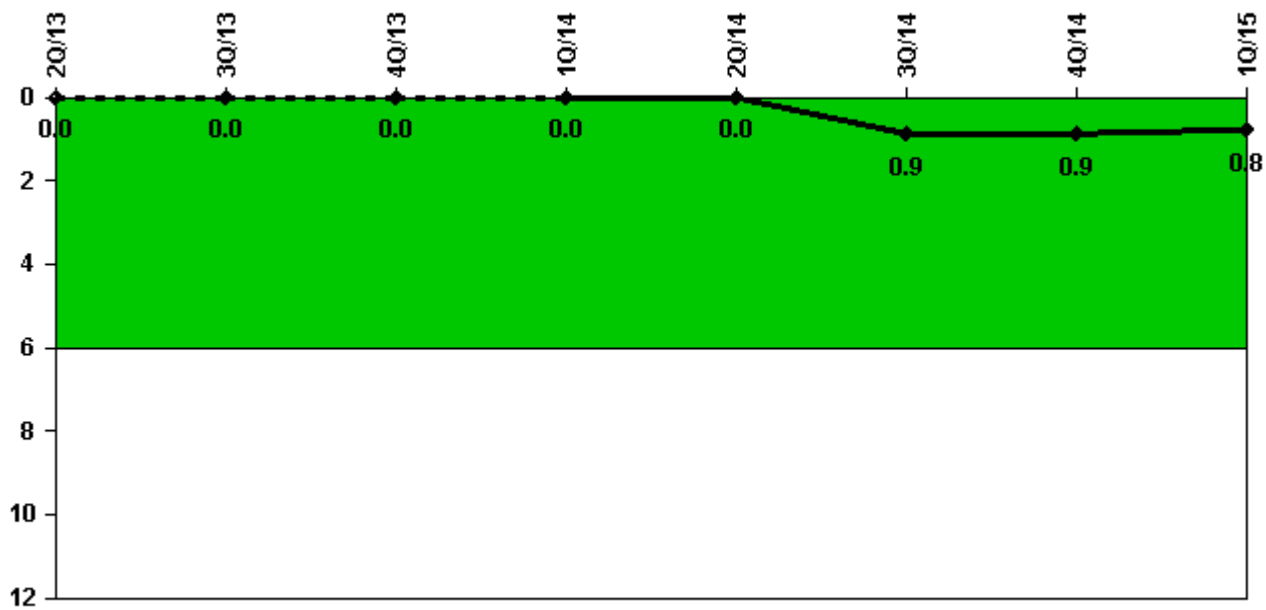
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	0	0	0
Critical hours	2184.0	2189.3	2209.0	1619.8	2184.0	2208.0	2209.0	2159.0
Indicator value	0.8	1.6	1.6	0.9	0.9	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

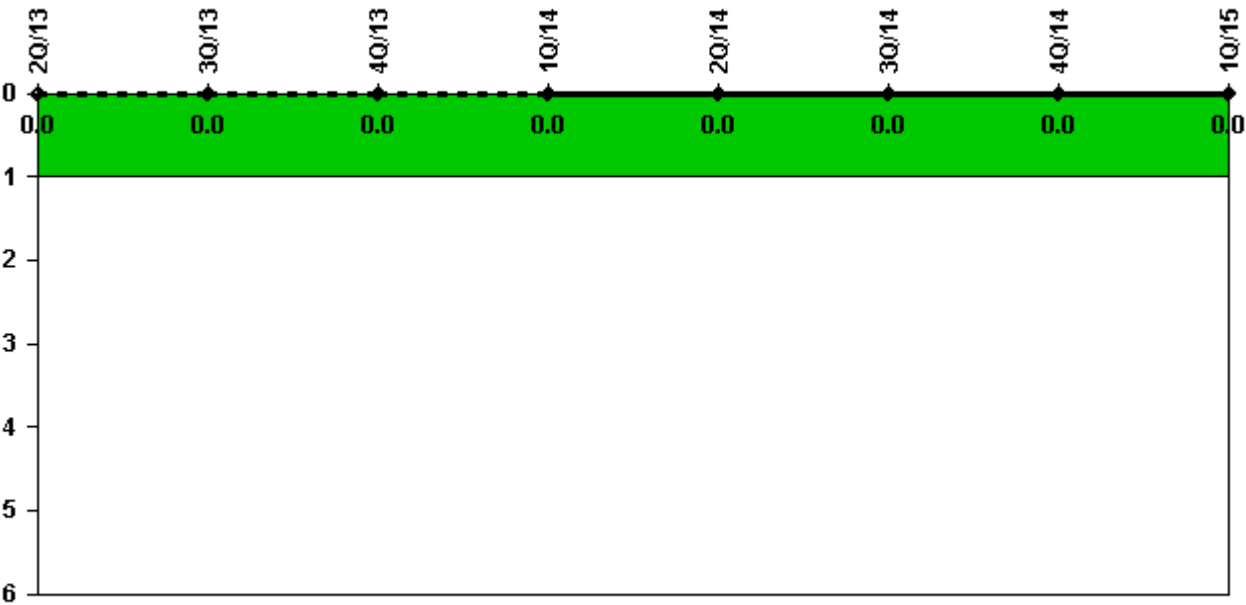
Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2184.0	2189.3	2209.0	1619.8	2184.0	2208.0	2209.0	2159.0
Indicator value	0	0	0	0	0	0.9	0.9	0.8

Licensee Comments:

3Q/14: Unplanned power change on September 18, 2014, due to Technical Specification required power change as a result of misaligned control rod/shutdown bank B during testing. Power reduced to approximately 70%.

Unplanned Scrams with Complications



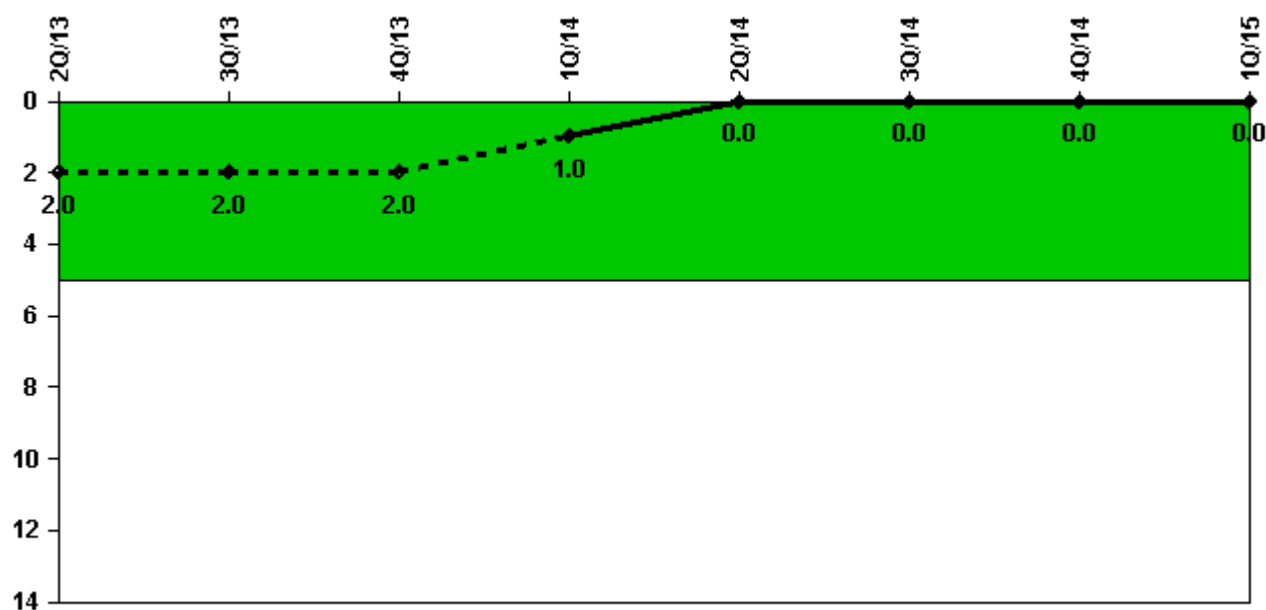
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Scrums 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

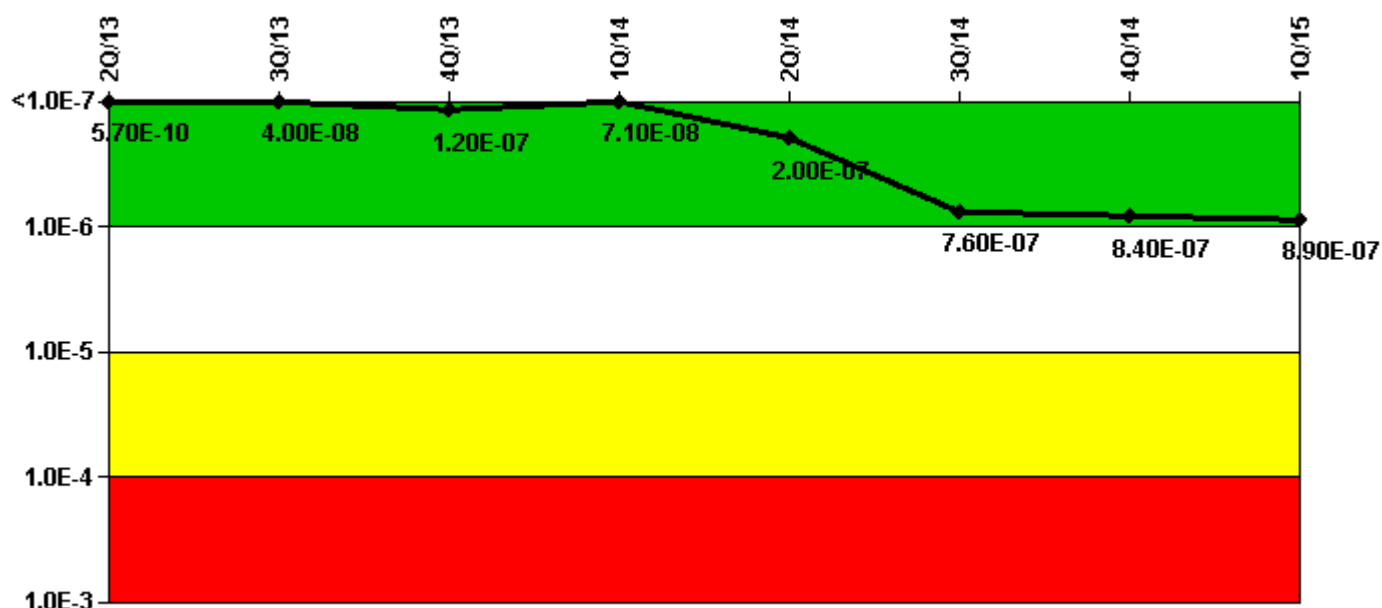
Notes

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

Licensee Comments:

2Q/13: LER-2013-002 reported on June 13, 2012, a SSFF of the onsite emergency diesel generators due to maintenance on the emergency fuel oil supply line during tagout of the normal fuel oil supply line.

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)	2.12E-07	2.29E-07	2.80E-07	2.73E-07	3.56E-07	3.65E-07	4.23E-07	3.76E-07
URI (ΔCDF)	-2.11E-07	-1.89E-07	-1.59E-07	-2.03E-07	-1.59E-07	3.93E-07	4.15E-07	5.12E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.70E-10	4.00E-08	1.20E-07	7.10E-08	2.00E-07	7.60E-07	8.40E-07	8.90E-07

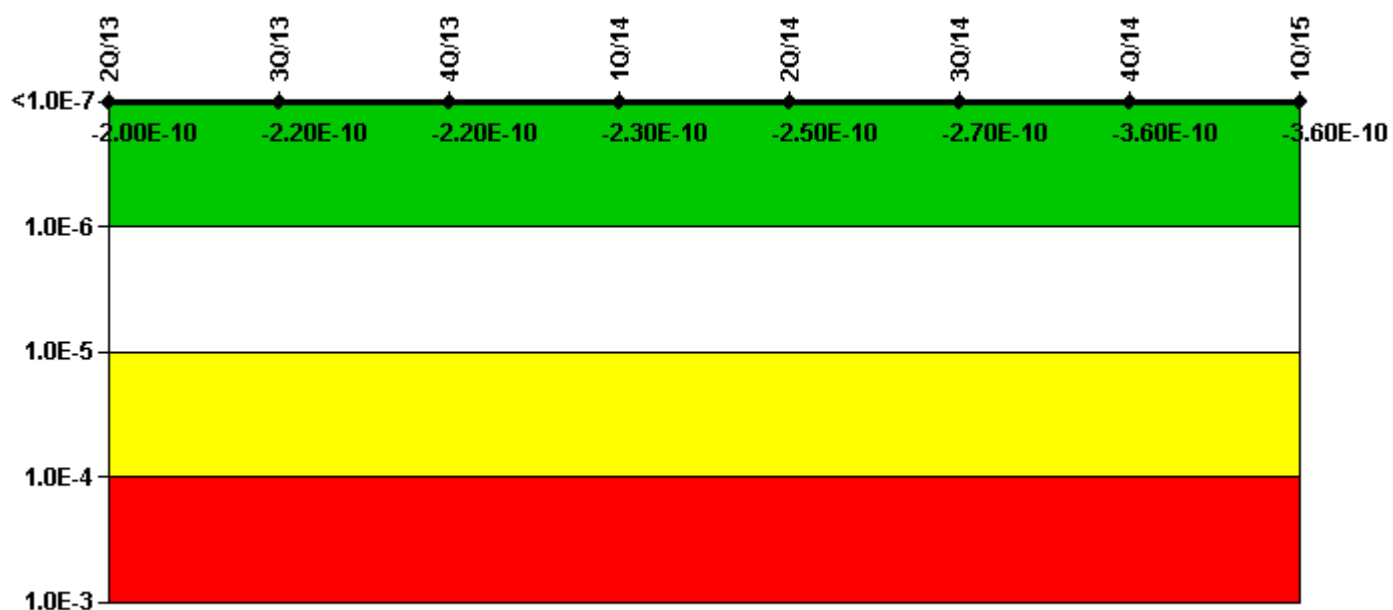
Licensee Comments:

1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked. On September 12, 2014, a lube oil leak was discovered on the vitaulic coupling of the 23 EDG during post maintenance testing. EDG secured. MSPI Run Failure.

Mitigating Systems Performance Index, High Pressure Injection System



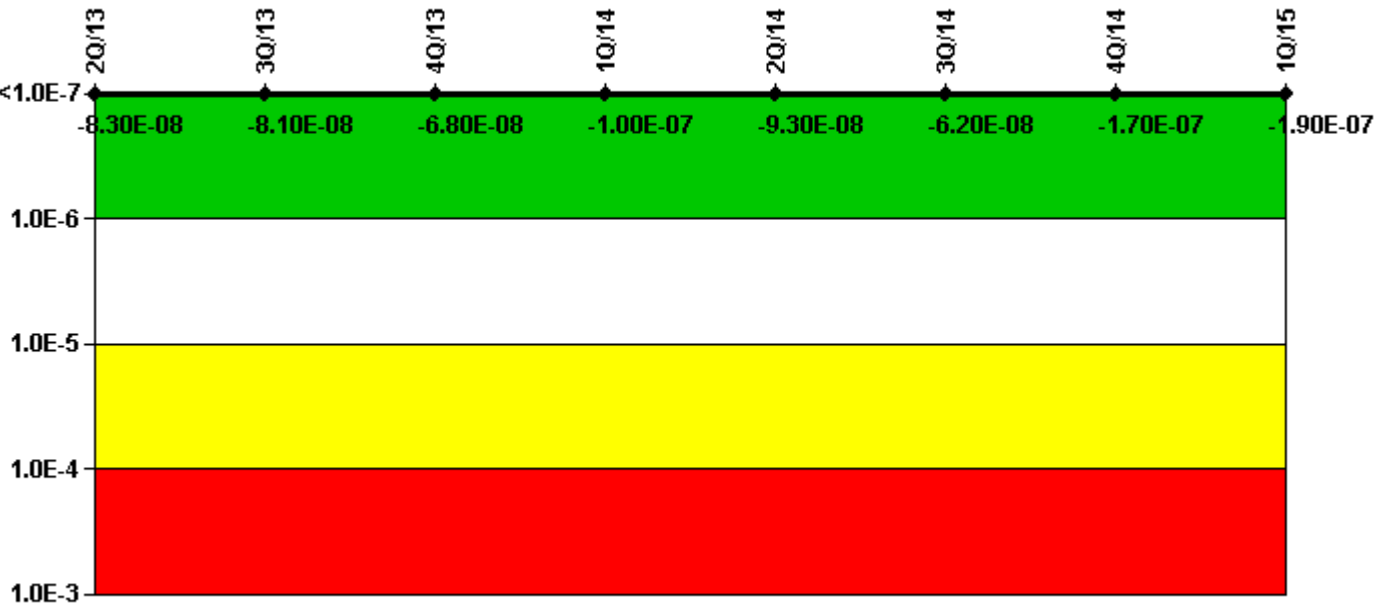
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	6.29E-11	5.22E-11	5.76E-11	6.60E-11	5.21E-11	5.05E-11	-3.50E-11	-3.95E-11
URI (Δ CDF)	-2.61E-10	-2.71E-10	-2.78E-10	-2.92E-10	-3.05E-10	-3.19E-10	-3.27E-10	-3.18E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-10	-2.20E-10	-2.20E-10	-2.30E-10	-2.50E-10	-2.70E-10	-3.60E-10	-3.60E-10

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

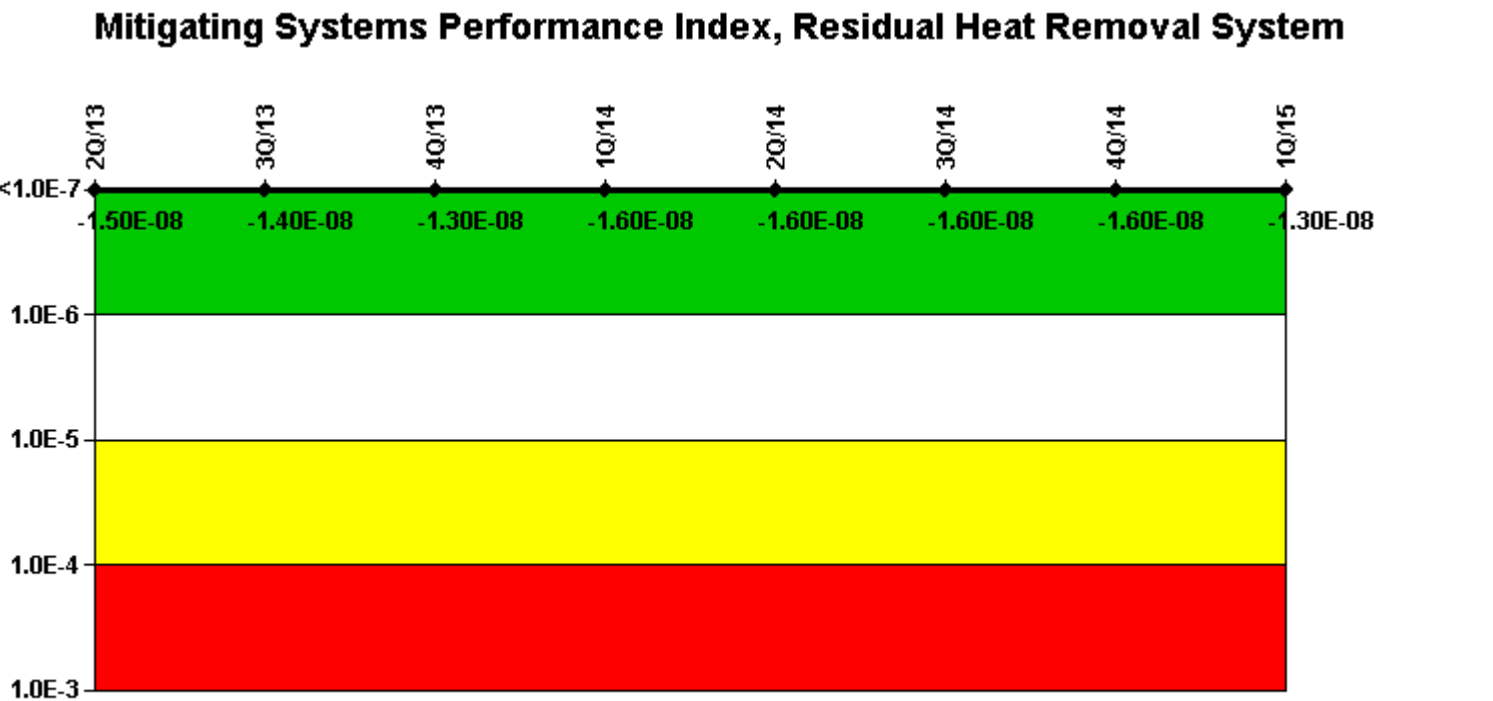


Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (ΔCDF)	-2.93E-08	-2.99E-08	-2.98E-08	-2.85E-08	-2.72E-08	3.81E-09	2.10E-08	5.35E-10
URI (ΔCDF)	-5.37E-08	-5.07E-08	-3.86E-08	-7.36E-08	-6.60E-08	-6.59E-08	-1.93E-07	-1.86E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.30E-08	-8.10E-08	-6.80E-08	-1.00E-07	-9.30E-08	-6.20E-08	-1.70E-07	-1.90E-07

Licensee Comments: none



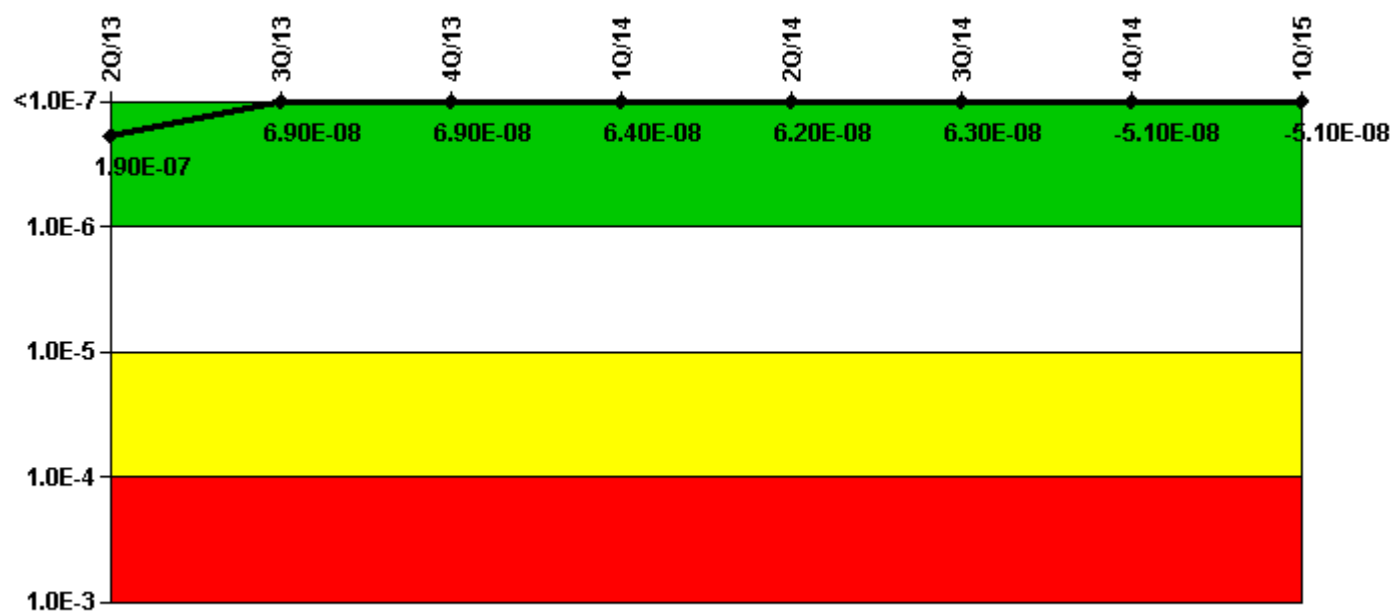
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	-4.05E-09	-4.17E-09	-4.03E-09	-3.91E-09	-3.97E-09	-3.97E-09	-4.19E-09	-4.35E-09
URI (ΔCDF)	-1.06E-08	-9.89E-09	-9.12E-09	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-8.35E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.50E-08	-1.40E-08	-1.30E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



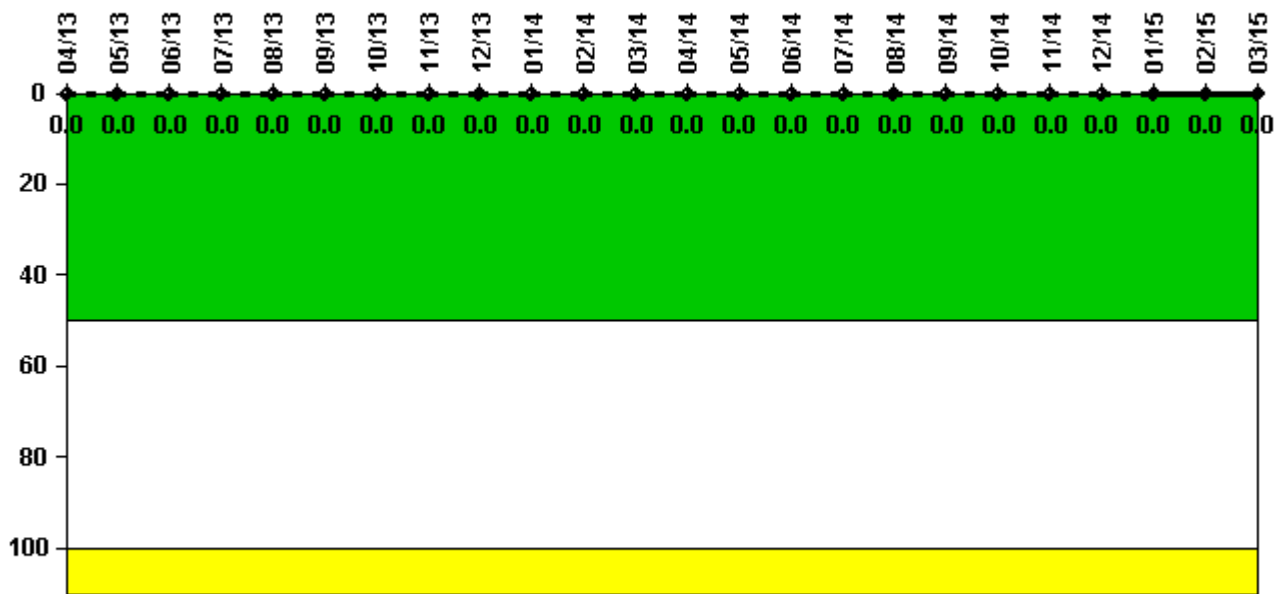
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
UAI (ΔCDF)	4.90E-09	2.65E-09	-1.93E-09	-3.47E-09	-3.28E-09	-3.61E-09	-4.38E-09	-4.67E-09
URI (ΔCDF)	1.81E-07	6.67E-08	7.05E-08	6.71E-08	6.55E-08	6.66E-08	-4.68E-08	-4.64E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.90E-07	6.90E-08	6.90E-08	6.40E-08	6.20E-08	6.30E-08	-5.10E-08	-5.10E-08

Licensee Comments: none

Reactor Coolant System Activity



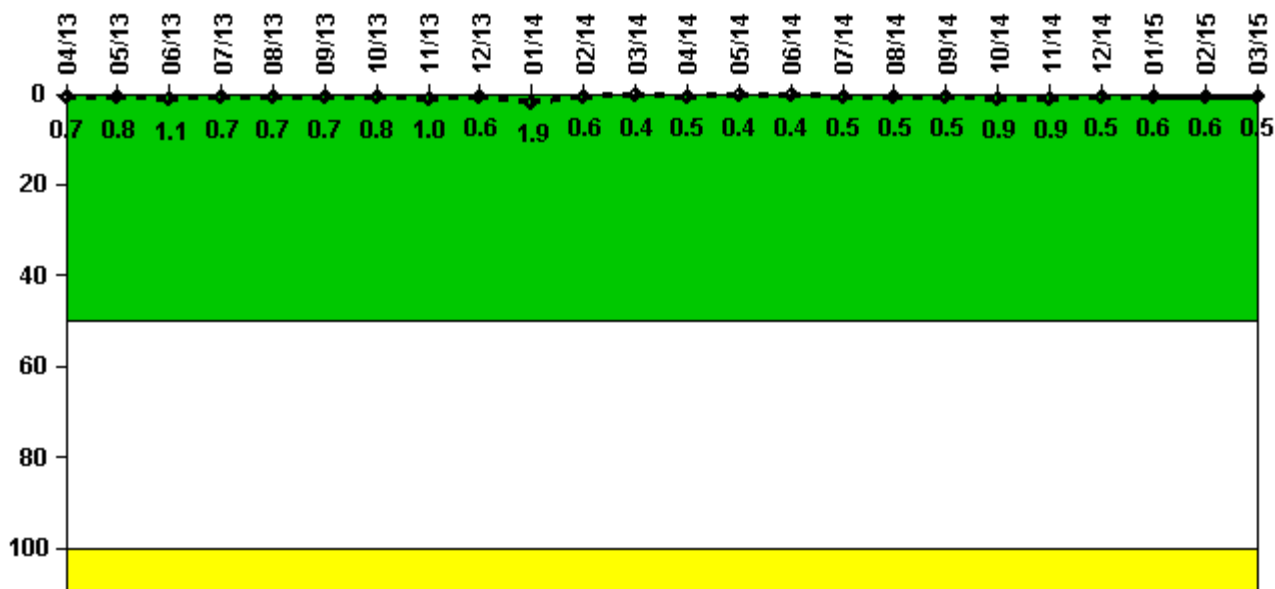
Thresholds: White > 50.0 Yellow > 100.0

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	0.000247	0.000280	0.000239	0.000258	0.000239	0.000204	0.000257	0.000273	0.000276	0.000278	0.000334	0.000125
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum activity	0.000159	0.000133	0.000165	0.000153	0.000141	0.000148	0.000158	0.000170	0.000175	0.000175	0.000170	0.000195
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



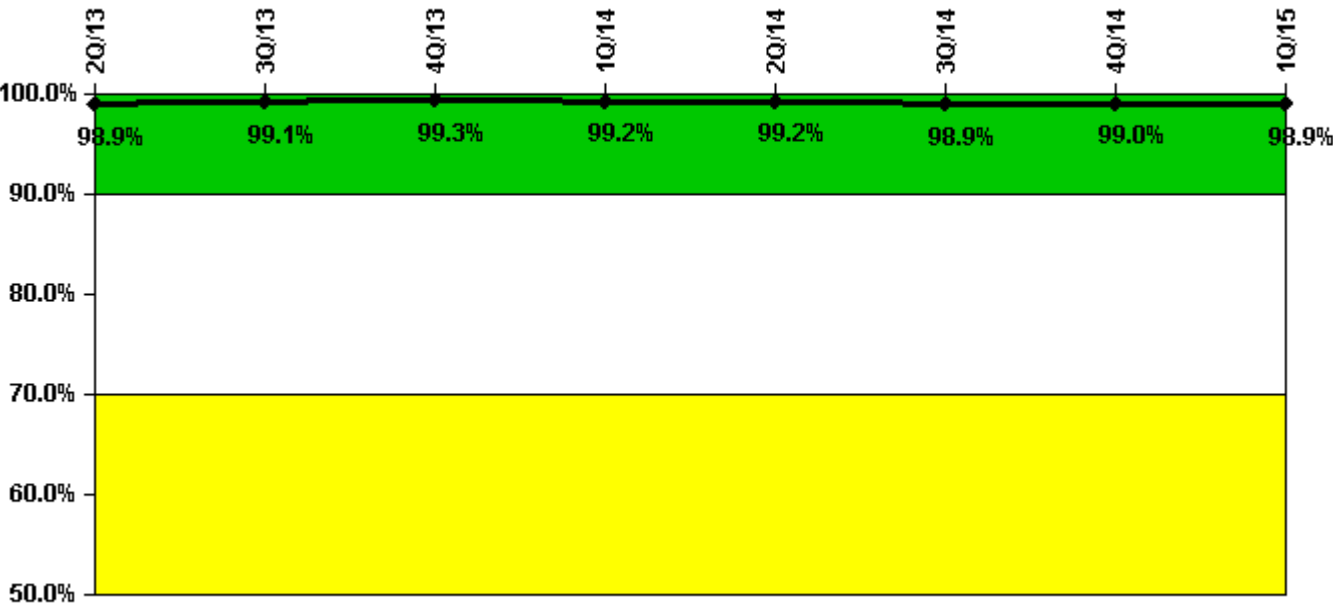
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14
Maximum leakage	0.073	0.080	0.110	0.071	0.070	0.070	0.080	0.100	0.060	0.190	0.060	0.040
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.8	1.1	0.7	0.7	0.7	0.8	1.0	0.6	1.9	0.6	0.4
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	0.050	0.040	0.040	0.050	0.050	0.050	0.090	0.090	0.053	0.060	0.060	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.5	0.4	0.4	0.5	0.5	0.5	0.9	0.9	0.5	0.6	0.6	0.5

Licensee Comments: none

Drill/Exercise Performance



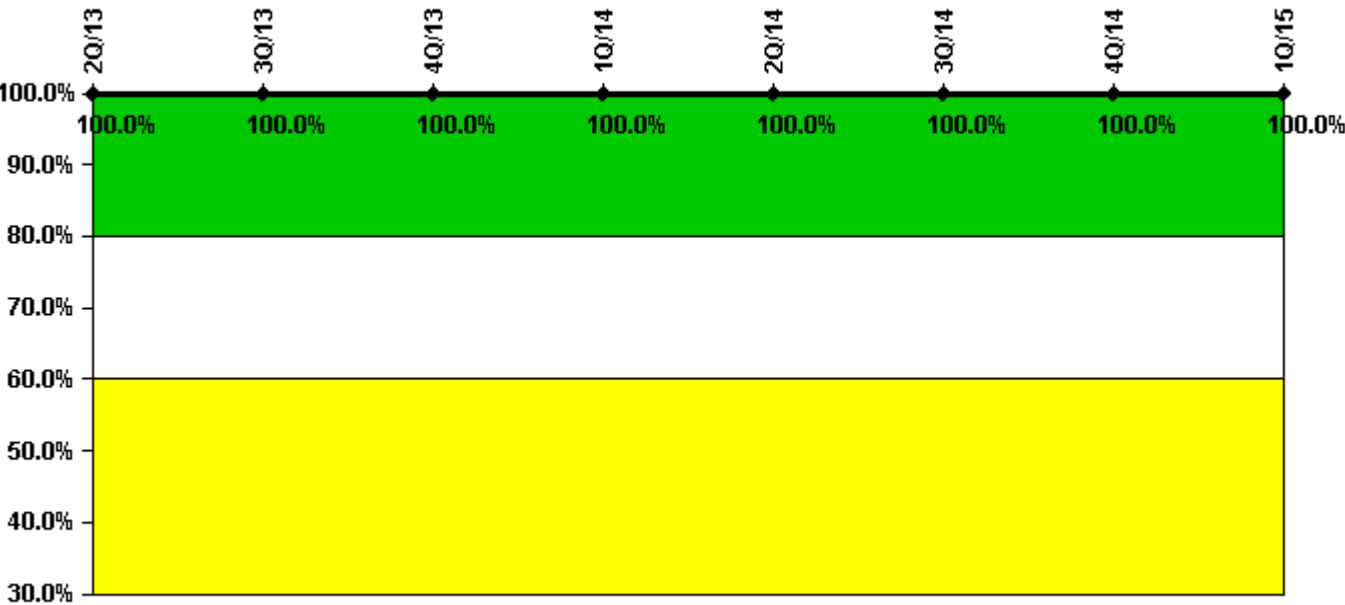
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful opportunities	300.0	291.0	127.0	50.0	110.0	200.0	109.0	20.0
Total opportunities	301.0	297.0	127.0	51.0	112.0	203.0	109.0	21.0
Indicator value	98.9%	99.1%	99.3%	99.2%	99.2%	98.9%	99.0%	98.9%

Licensee Comments: none

ERO Drill Participation



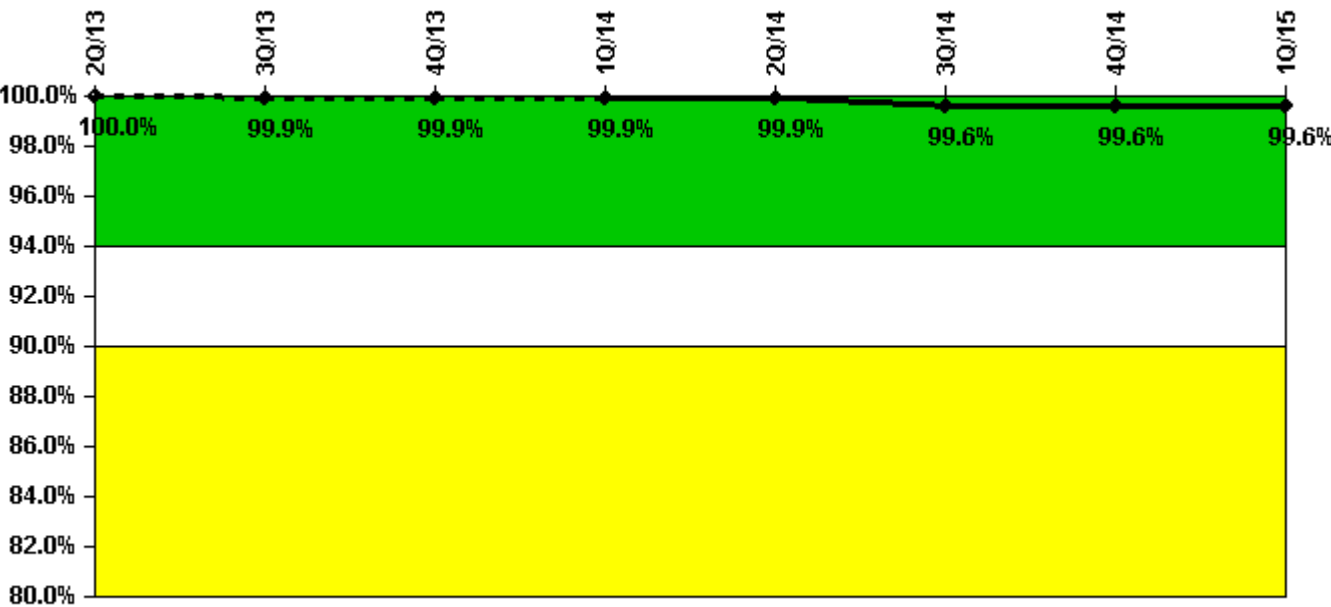
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Participating Key personnel	104.0	109.0	111.0	104.0	104.0	100.0	106.0	104.0
Total Key personnel	104.0	109.0	111.0	104.0	104.0	100.0	106.0	104.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



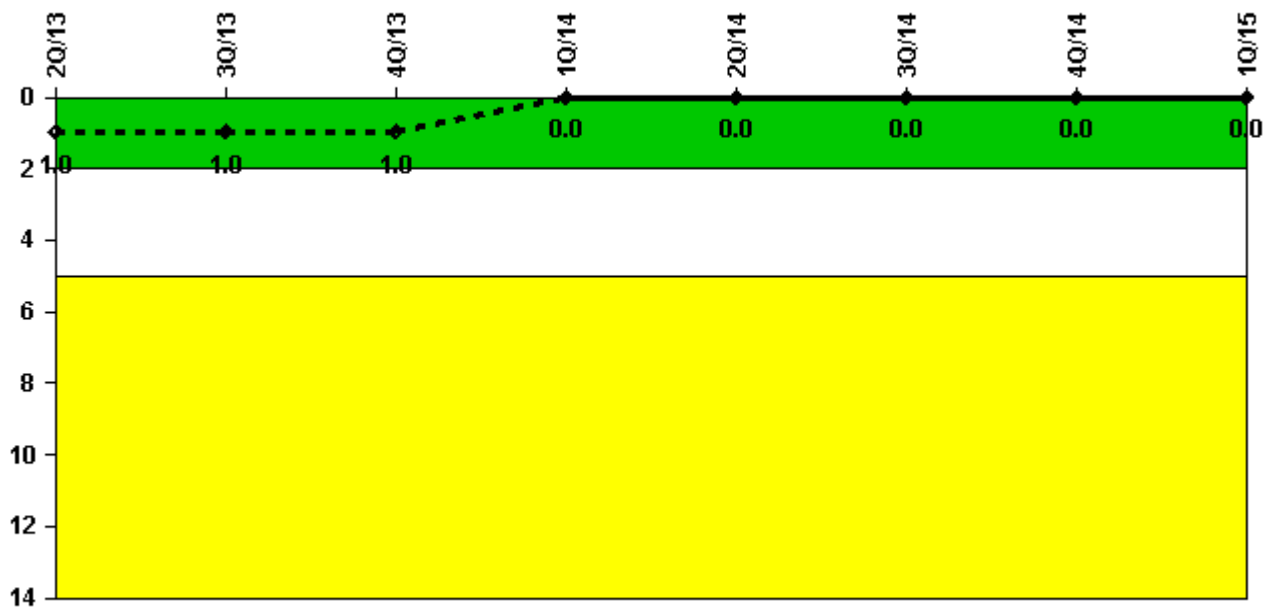
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful siren-tests	1077	936	1226	1148	1079	1110	1104	1135
Total sirens-tests	1077	938	1227	1148	1081	1126	1104	1135
Indicator value	100.0%	99.9%	99.9%	99.9%	99.9%	99.6%	99.6%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness

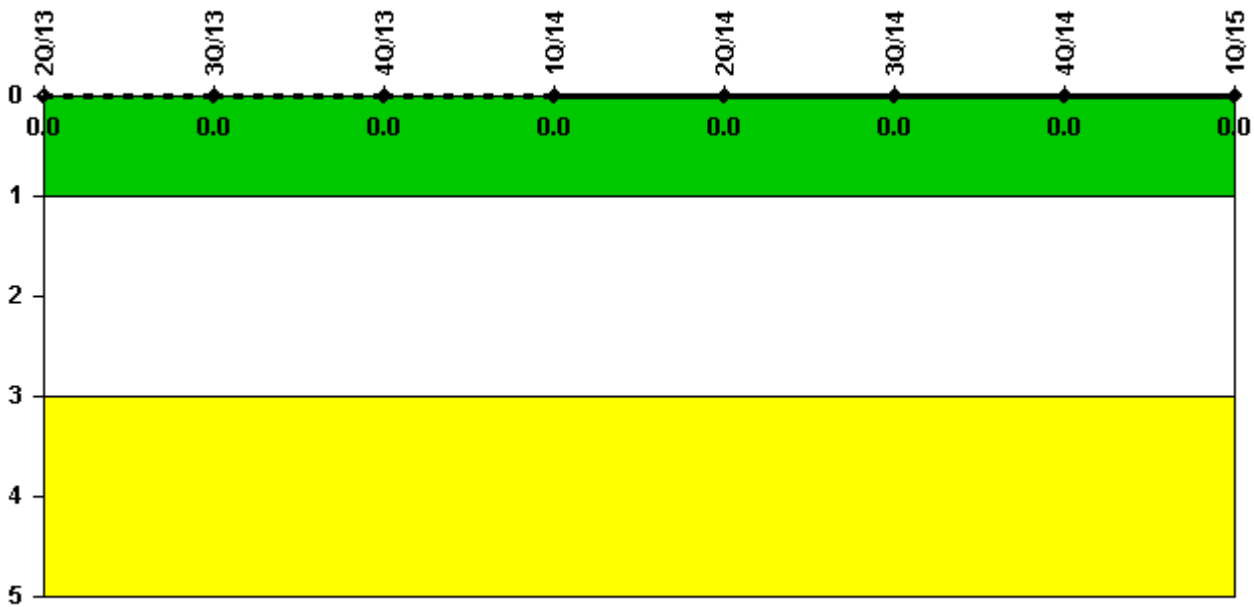


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	1	1	0	0	0	0	0

Licensee Comments: none



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

Last Modified: April 23, 2015

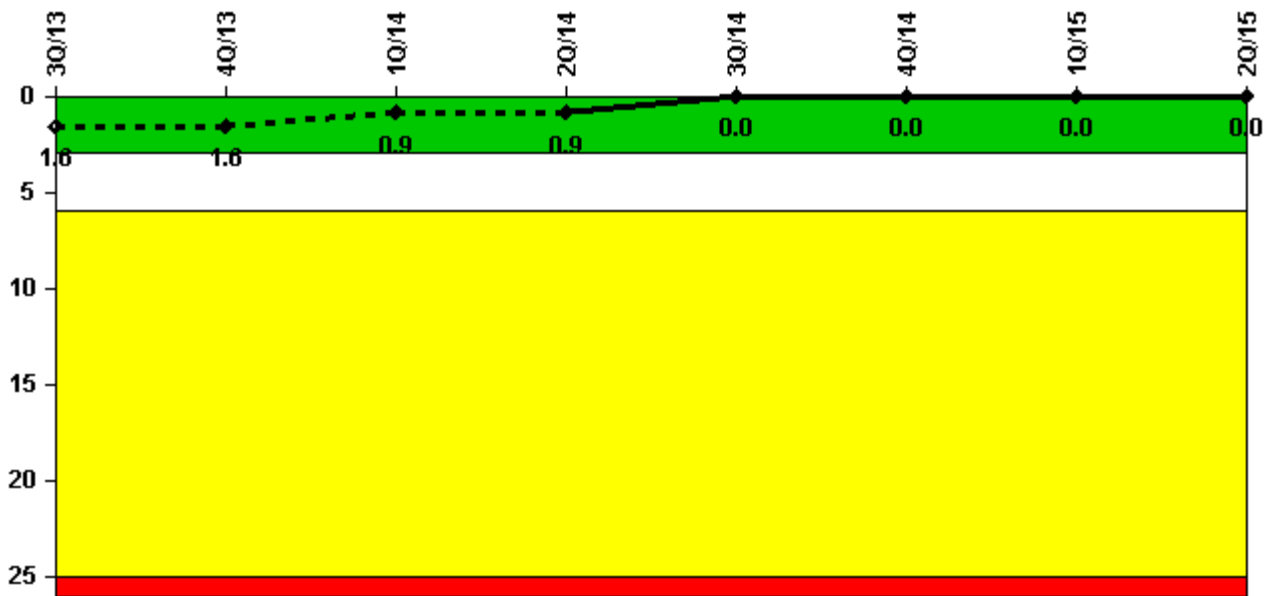
Indian Point 2

2Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



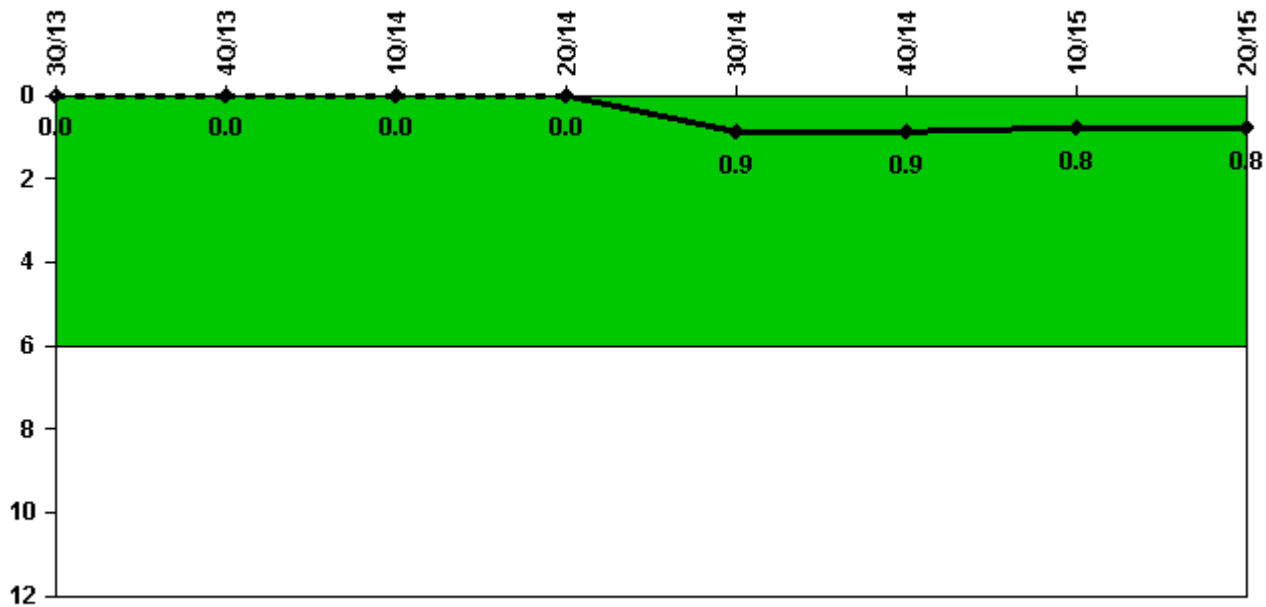
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2189.3	2209.0	1619.8	2184.0	2208.0	2209.0	2159.0	2184.0
Indicator value	1.6	1.6	0.9	0.9	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

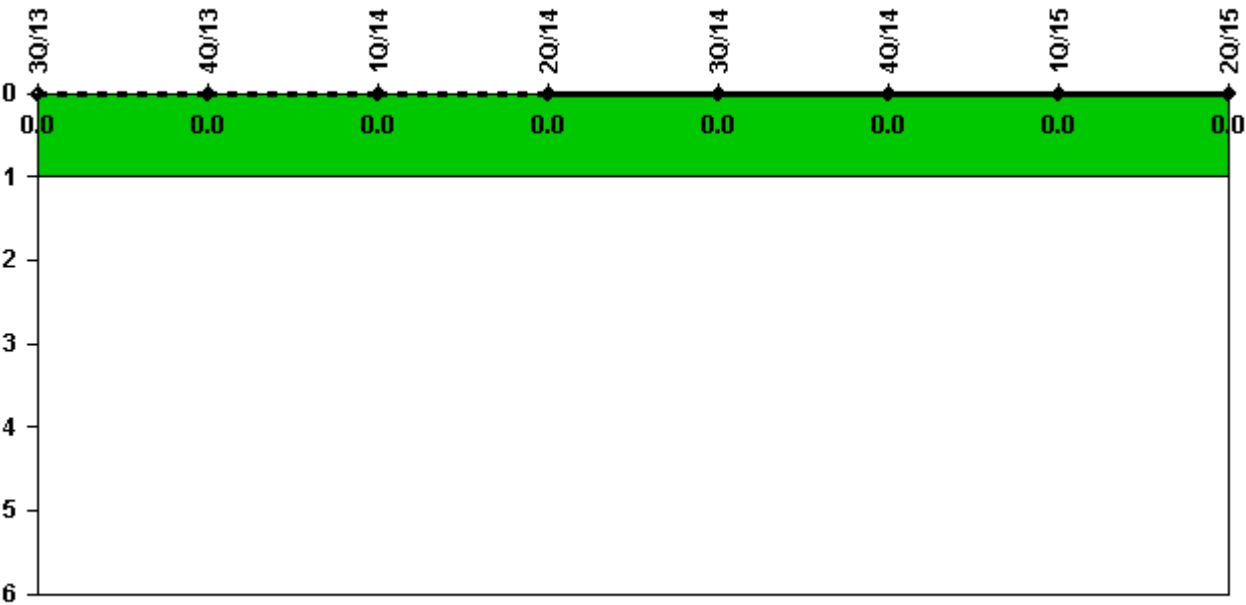
Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2189.3	2209.0	1619.8	2184.0	2208.0	2209.0	2159.0	2184.0
Indicator value	0	0	0	0	0.9	0.9	0.8	0.8

Licensee Comments:

3Q/14: Unplanned power change on September 18, 2014, due to Technical Specification required power change as a result of misaligned control rod/shutdown bank B during testing. Power reduced to approximately 70%.

Unplanned Scrams with Complications



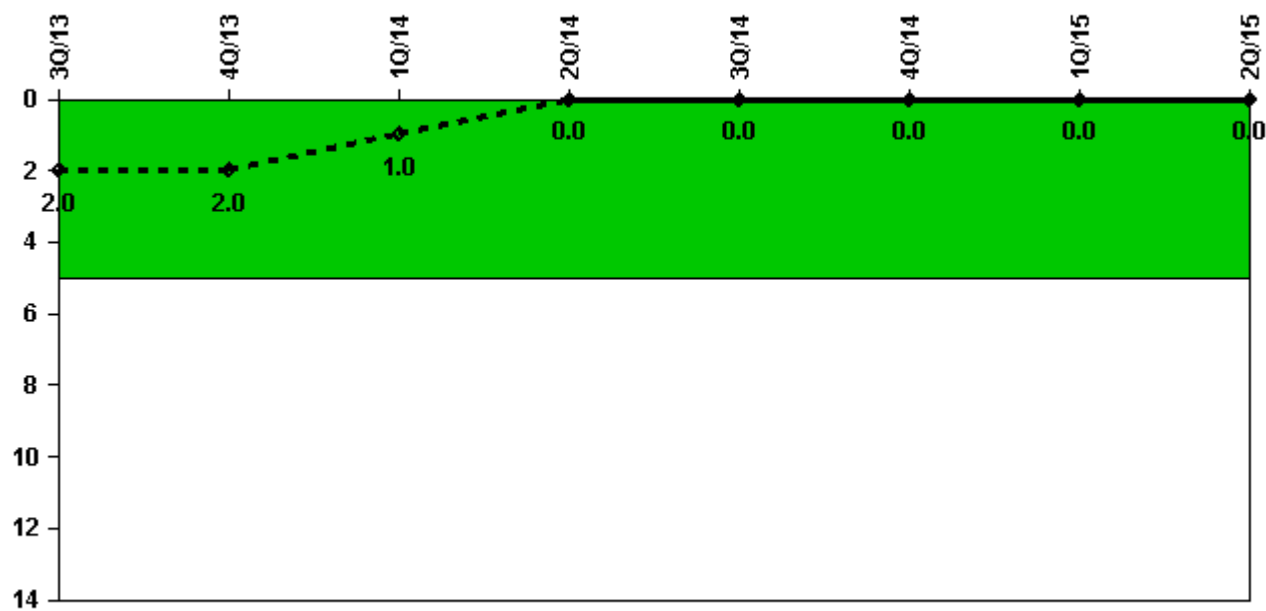
Thresholds: White > 1.0

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)



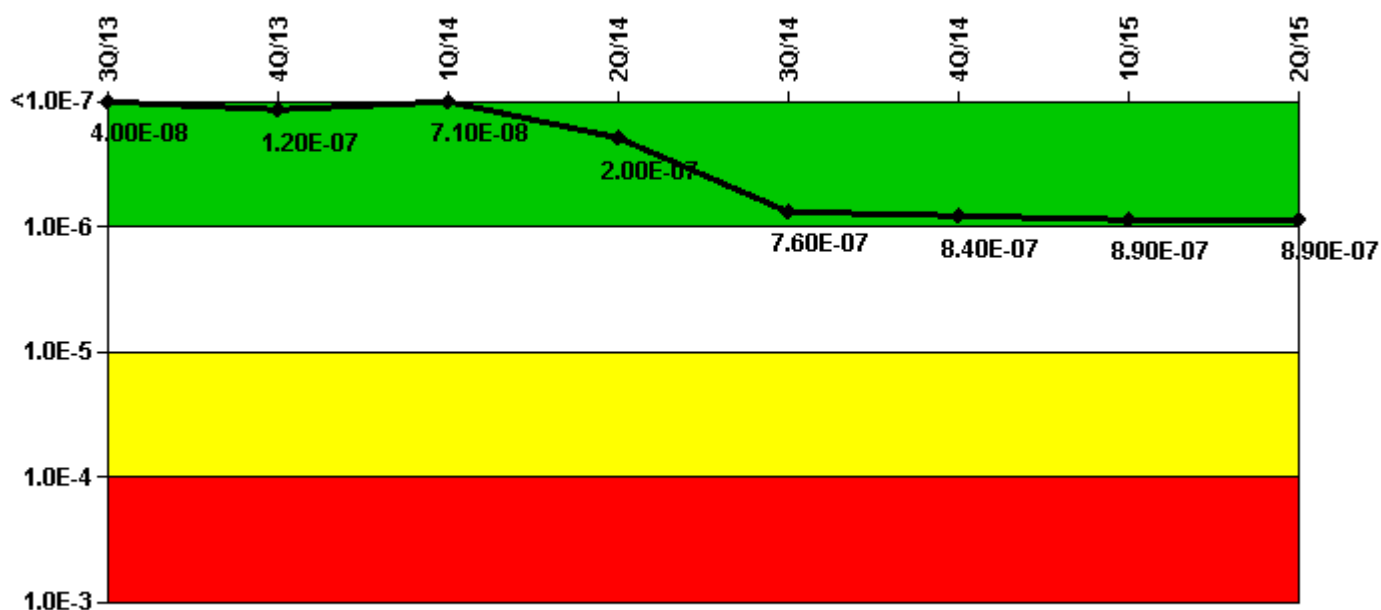
Thresholds: White > 5.0

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	2	2	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	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	2.29E-07	2.80E-07	2.73E-07	3.56E-07	3.65E-07	4.23E-07	3.76E-07	3.77E-07
URI (ΔCDF)	-1.89E-07	-1.59E-07	-2.03E-07	-1.59E-07	3.93E-07	4.15E-07	5.12E-07	5.14E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.00E-08	1.20E-07	7.10E-08	2.00E-07	7.60E-07	8.40E-07	8.90E-07	8.90E-07

Licensee Comments:

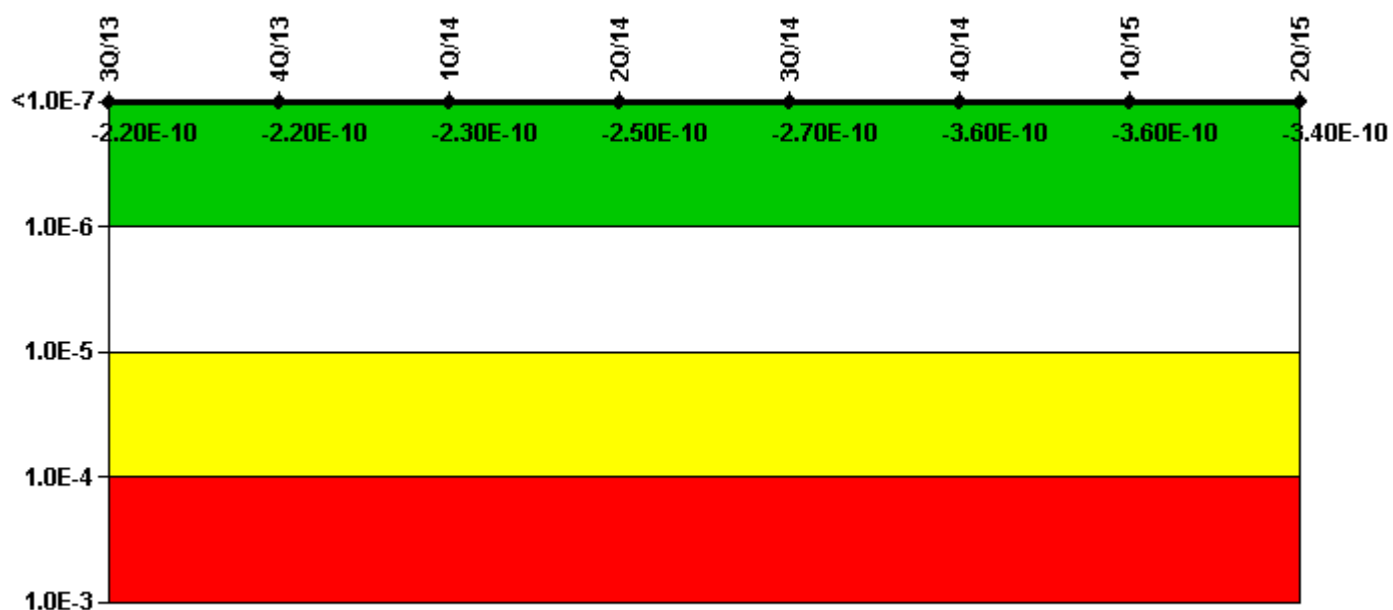
2Q/15: Risk Cap Invoked.

1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked. On September 12, 2014, a lube oil leak was discovered on the vitaulic coupling of the 23 EDG during post maintenance testing. EDG secured. MSPI Run Failure.

Mitigating Systems Performance Index, High Pressure Injection System



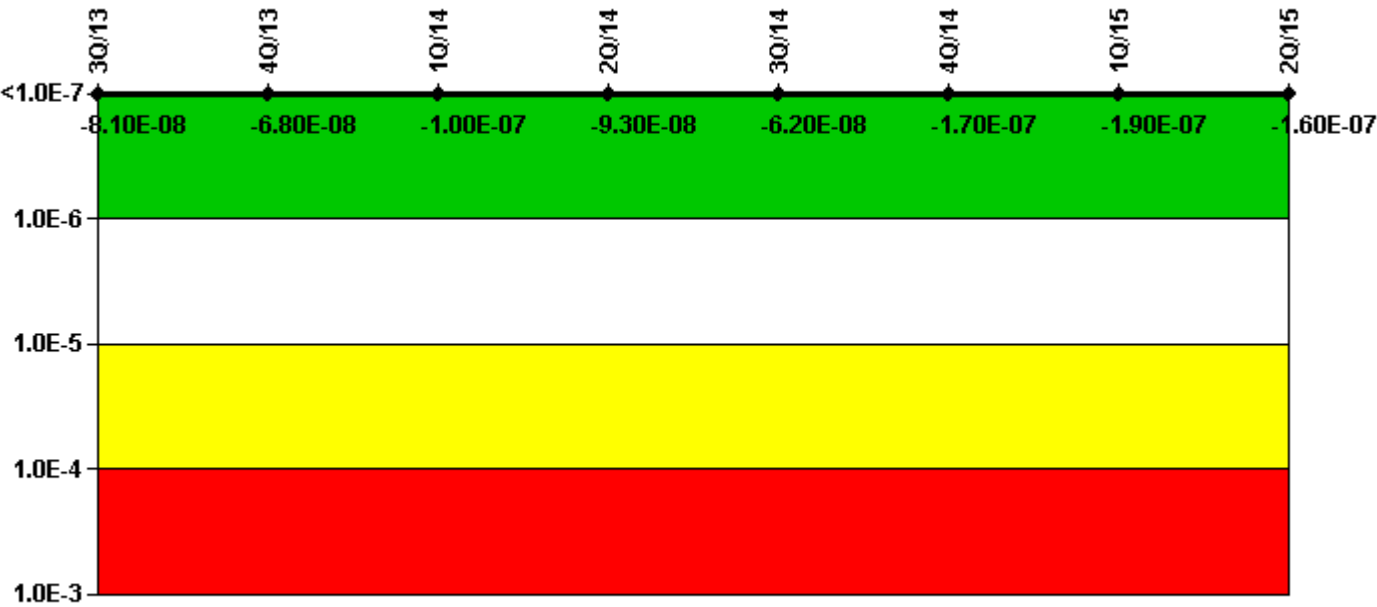
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

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)	5.22E-11	5.76E-11	6.60E-11	5.21E-11	5.05E-11	-3.50E-11	-3.95E-11	-2.54E-11
URI (Δ CDF)	-2.71E-10	-2.78E-10	-2.92E-10	-3.05E-10	-3.19E-10	-3.27E-10	-3.18E-10	-3.11E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-10	-2.20E-10	-2.30E-10	-2.50E-10	-2.70E-10	-3.60E-10	-3.60E-10	-3.40E-10

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

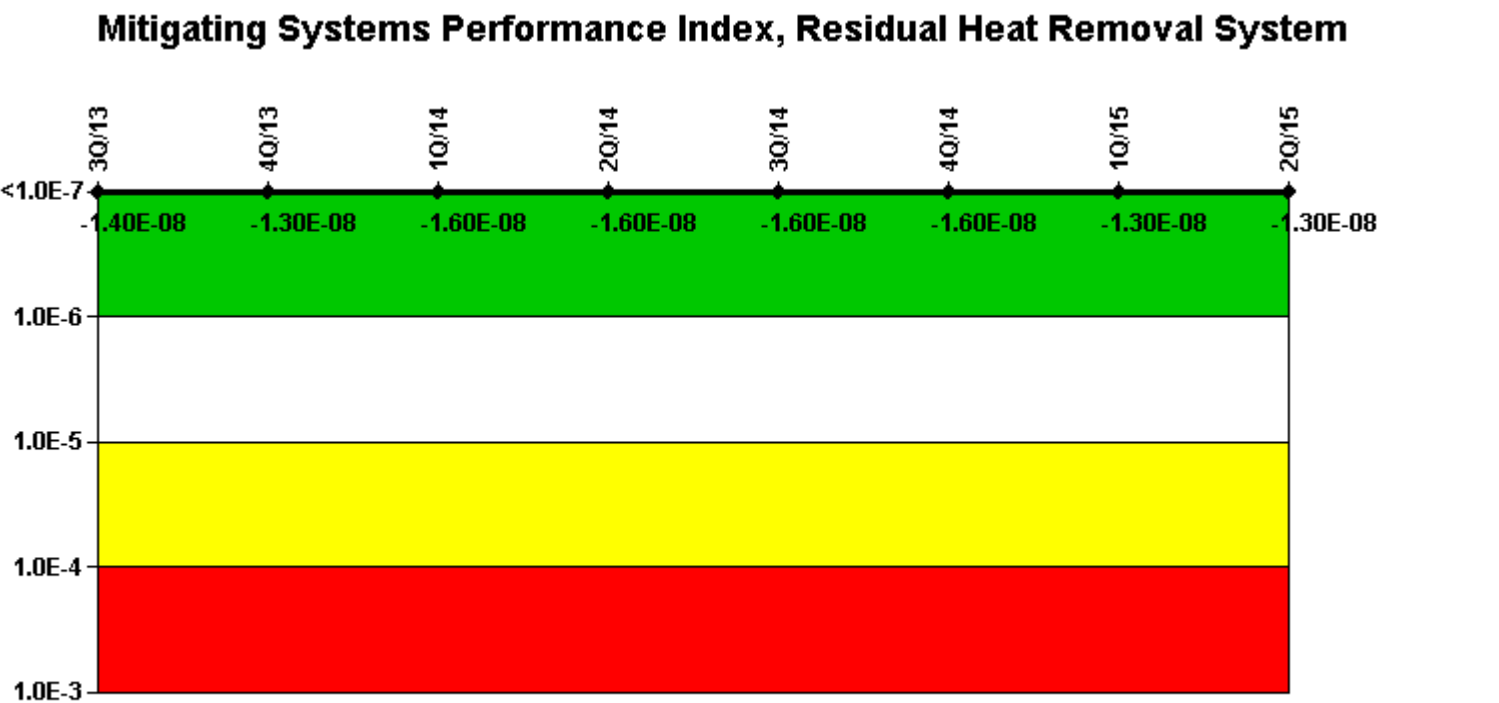


Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	-2.99E-08	-2.98E-08	-2.85E-08	-2.72E-08	3.81E-09	2.10E-08	5.35E-10	1.06E-08
URI (ΔCDF)	-5.07E-08	-3.86E-08	-7.36E-08	-6.60E-08	-6.59E-08	-1.93E-07	-1.86E-07	-1.71E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.10E-08	-6.80E-08	-1.00E-07	-9.30E-08	-6.20E-08	-1.70E-07	-1.90E-07	-1.60E-07

Licensee Comments: none



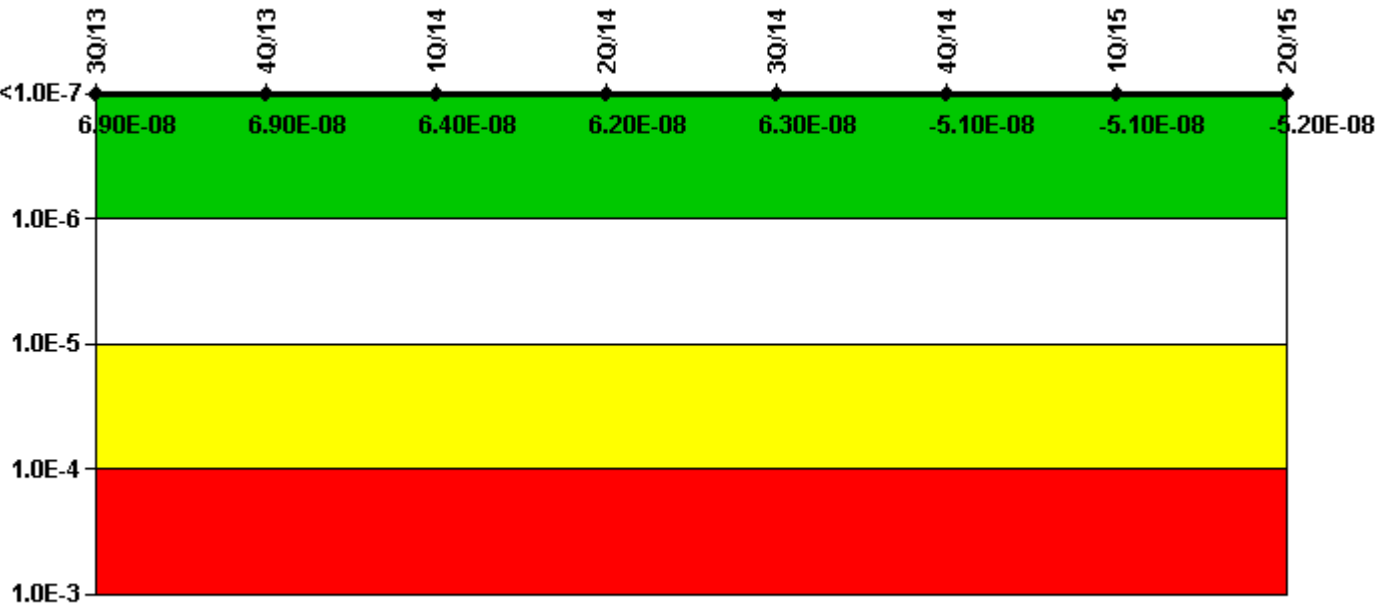
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	-4.17E-09	-4.03E-09	-3.91E-09	-3.97E-09	-3.97E-09	-4.19E-09	-4.35E-09	-4.36E-09
URI (ΔCDF)	-9.89E-09	-9.12E-09	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-8.35E-09	-8.26E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	-1.30E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.30E-08	-1.30E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



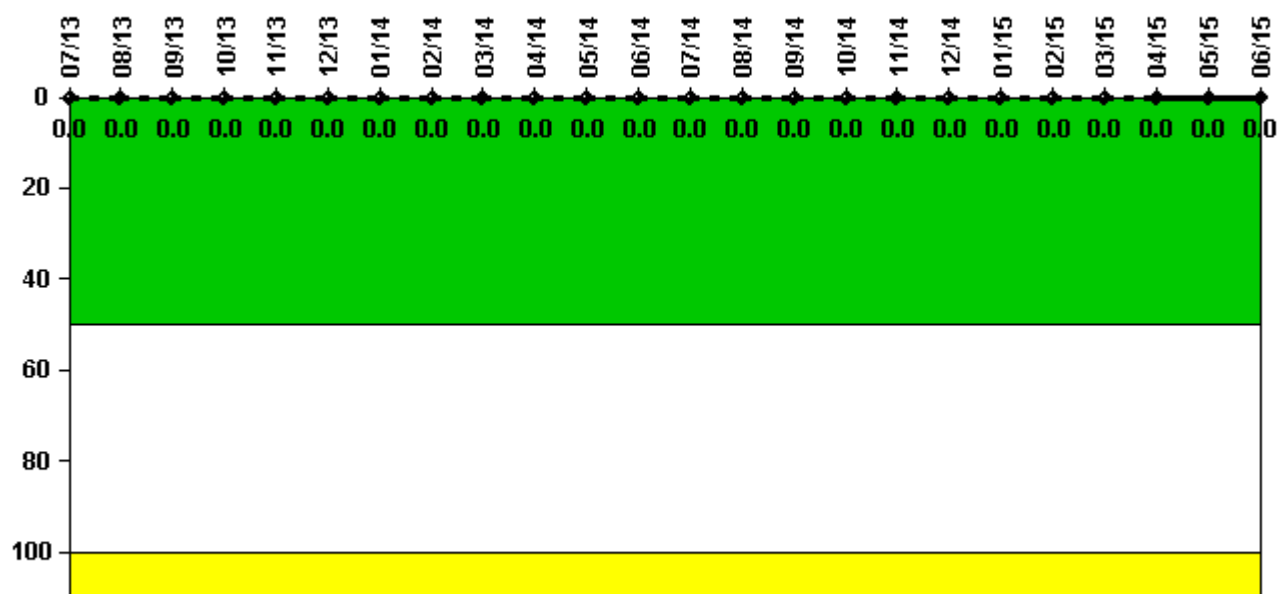
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
UAI (ΔCDF)	2.65E-09	-1.93E-09	-3.47E-09	-3.28E-09	-3.61E-09	-4.38E-09	-4.67E-09	-5.17E-09
URI (ΔCDF)	6.67E-08	7.05E-08	6.71E-08	6.55E-08	6.66E-08	-4.68E-08	-4.64E-08	-4.64E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.90E-08	6.90E-08	6.40E-08	6.20E-08	6.30E-08	-5.10E-08	-5.10E-08	-5.20E-08

Licensee Comments: none

Reactor Coolant System Activity



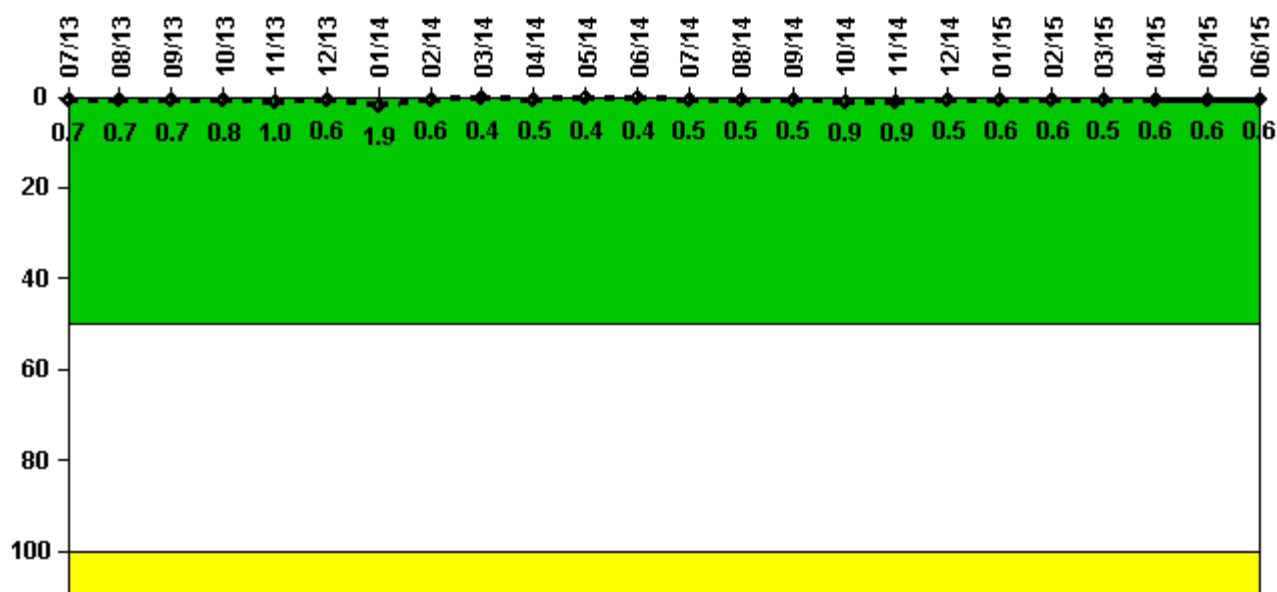
Thresholds: White > 50.0 Yellow > 100.0

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	0.000258	0.000239	0.000204	0.000257	0.000273	0.000276	0.000278	0.000334	0.000125	0.000159	0.000133	0.000165
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15
Maximum activity	0.000153	0.000141	0.000148	0.000158	0.000170	0.000175	0.000175	0.000170	0.000195	0.000182	0.000179	0.000190
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



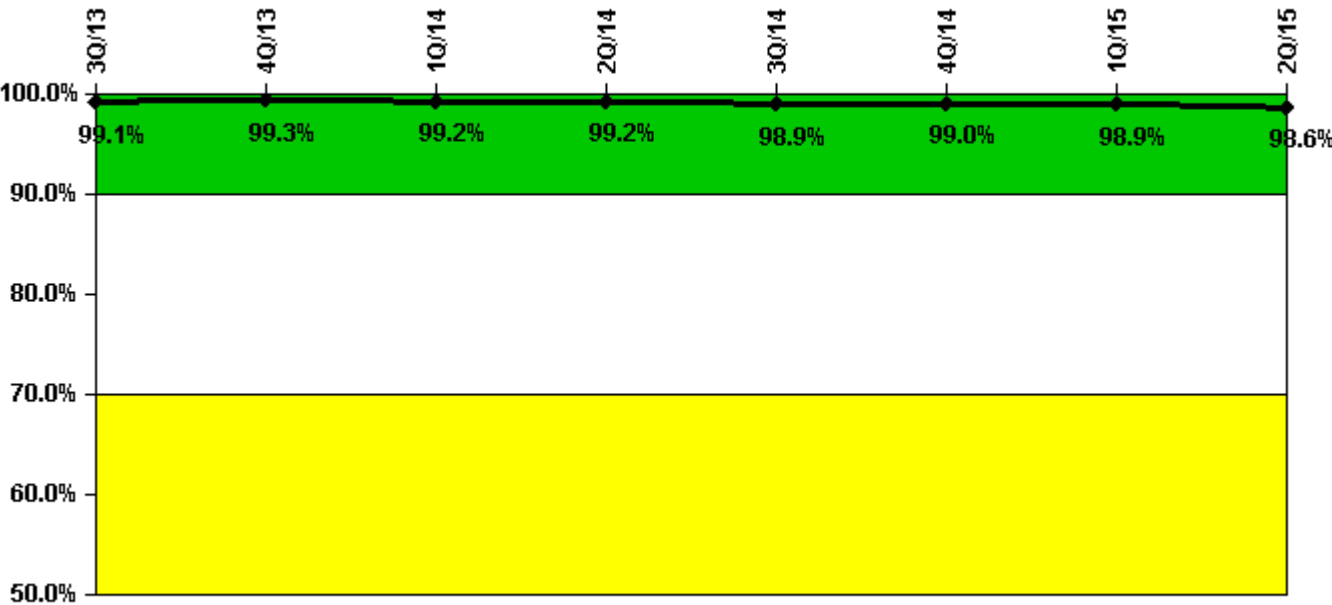
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum leakage	0.071	0.070	0.070	0.080	0.100	0.060	0.190	0.060	0.040	0.050	0.040	0.040
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.7	0.7	0.7	0.8	1.0	0.6	1.9	0.6	0.4	0.5	0.4	0.4
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	0.050	0.050	0.050	0.090	0.090	0.053	0.060	0.060	0.050	0.060	0.060	0.060
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.5	0.5	0.5	0.9	0.9	0.5	0.6	0.6	0.5	0.6	0.6	0.6

Licensee Comments: none

Drill/Exercise Performance



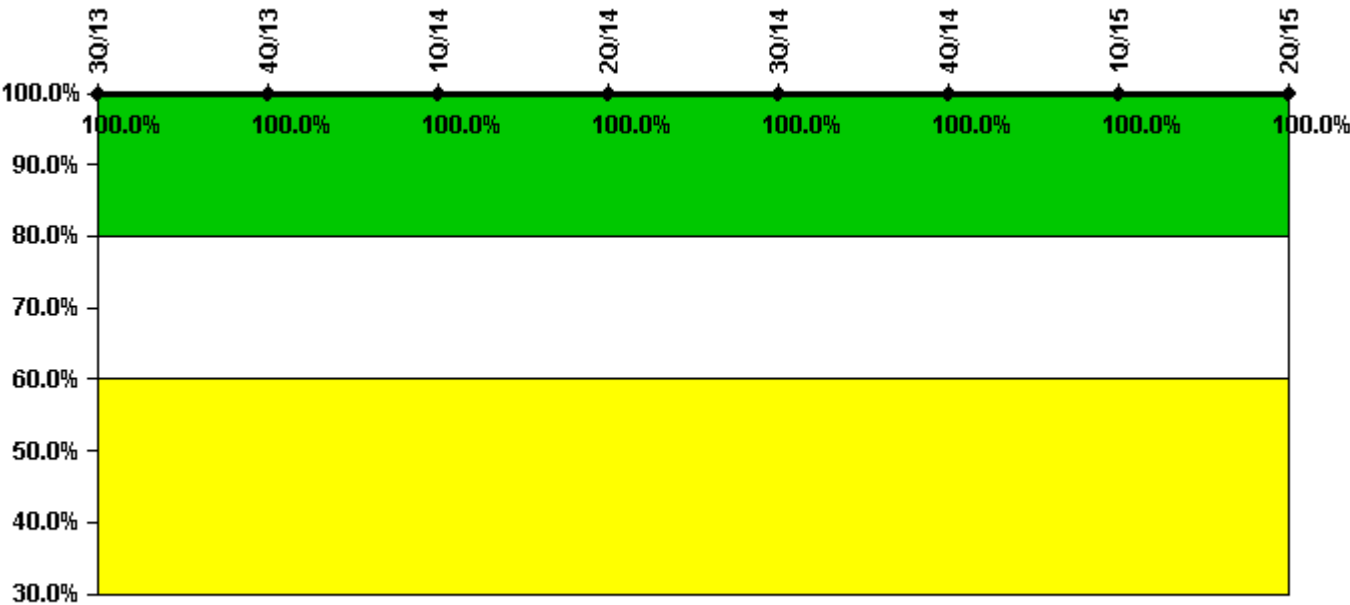
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful opportunities	291.0	127.0	50.0	110.0	200.0	109.0	20.0	71.0
Total opportunities	297.0	127.0	51.0	112.0	203.0	109.0	21.0	72.0
Indicator value	99.1%	99.3%	99.2%	99.2%	98.9%	99.0%	98.9%	98.6%

Licensee Comments: none

ERO Drill Participation



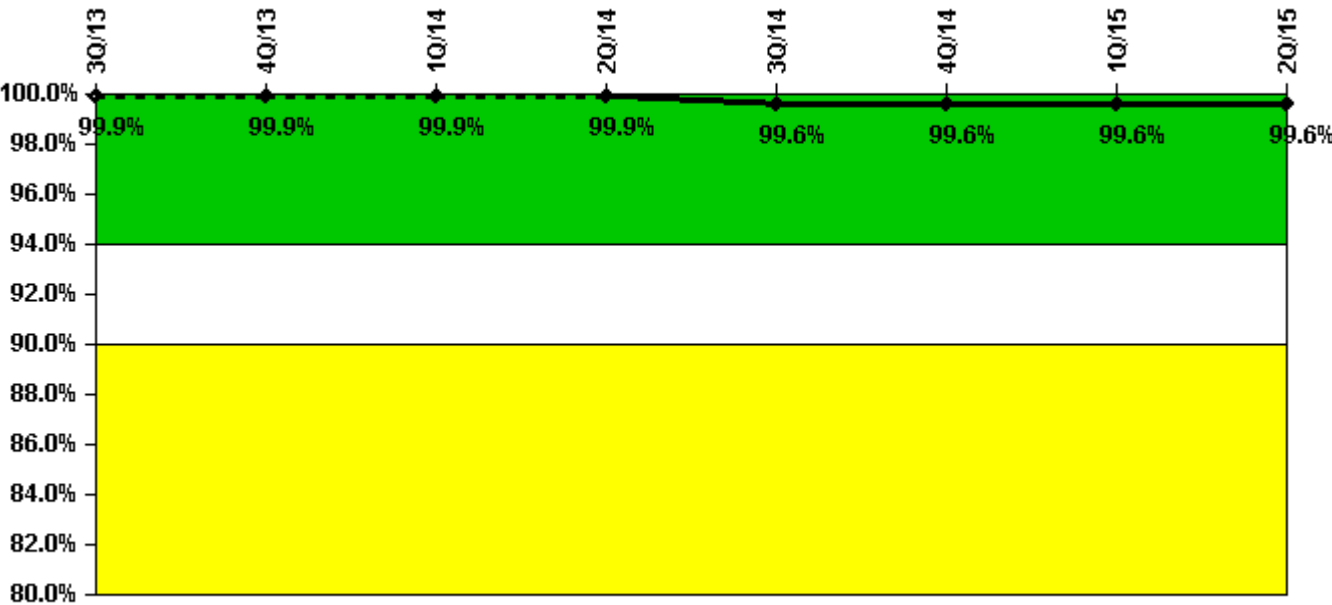
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Participating Key personnel	109.0	111.0	104.0	104.0	100.0	106.0	104.0	104.0
Total Key personnel	109.0	111.0	104.0	104.0	100.0	106.0	104.0	104.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



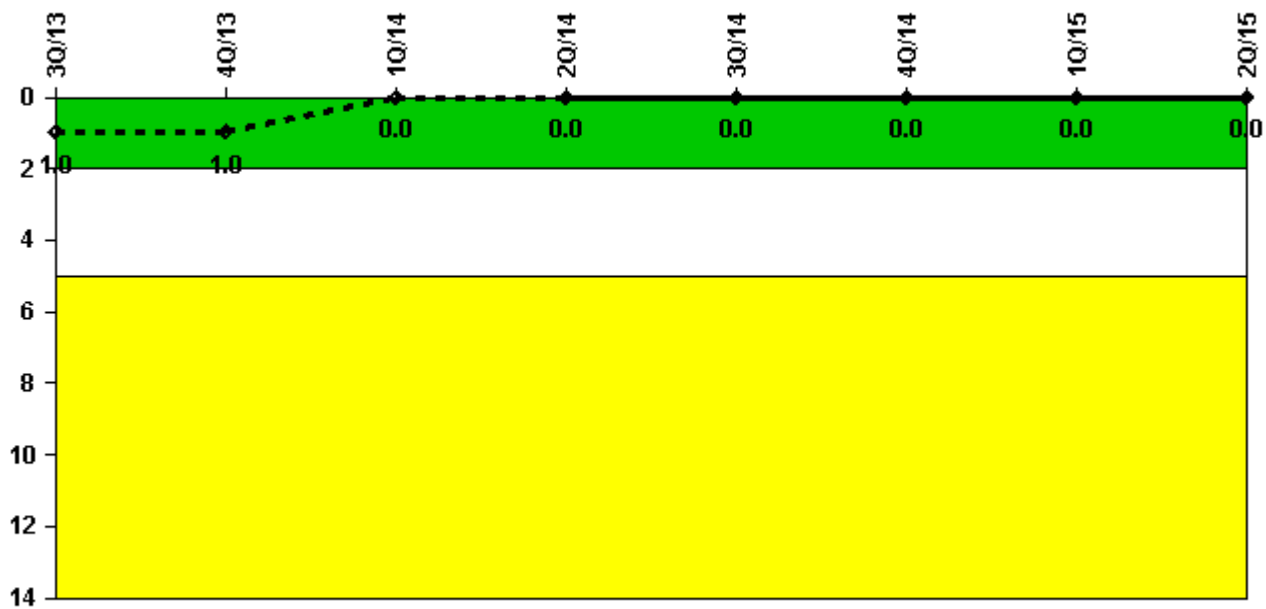
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful siren-tests	936	1226	1148	1079	1110	1104	1135	917
Total sirens-tests	938	1227	1148	1081	1126	1104	1135	917
Indicator value	99.9%	99.9%	99.9%	99.9%	99.6%	99.6%	99.6%	99.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness

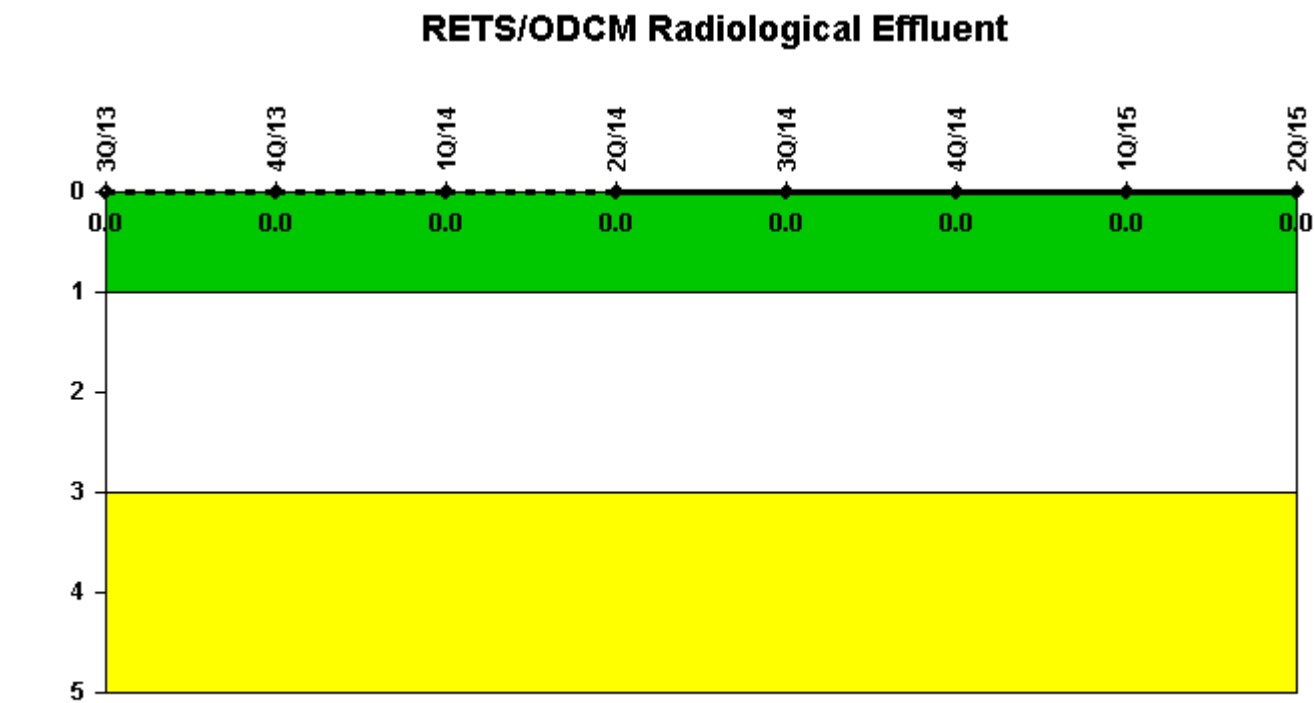


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	1	0	0	0	0	0	0

Licensee Comments: none



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



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

Last Modified: July 24, 2015

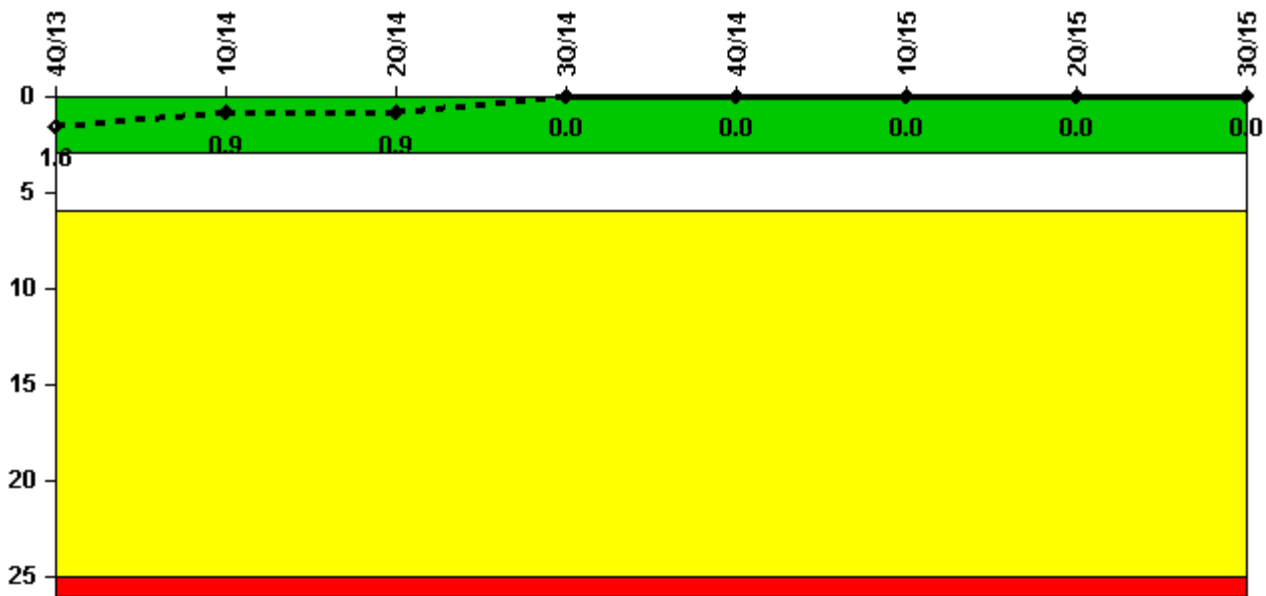
Indian Point 2

3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



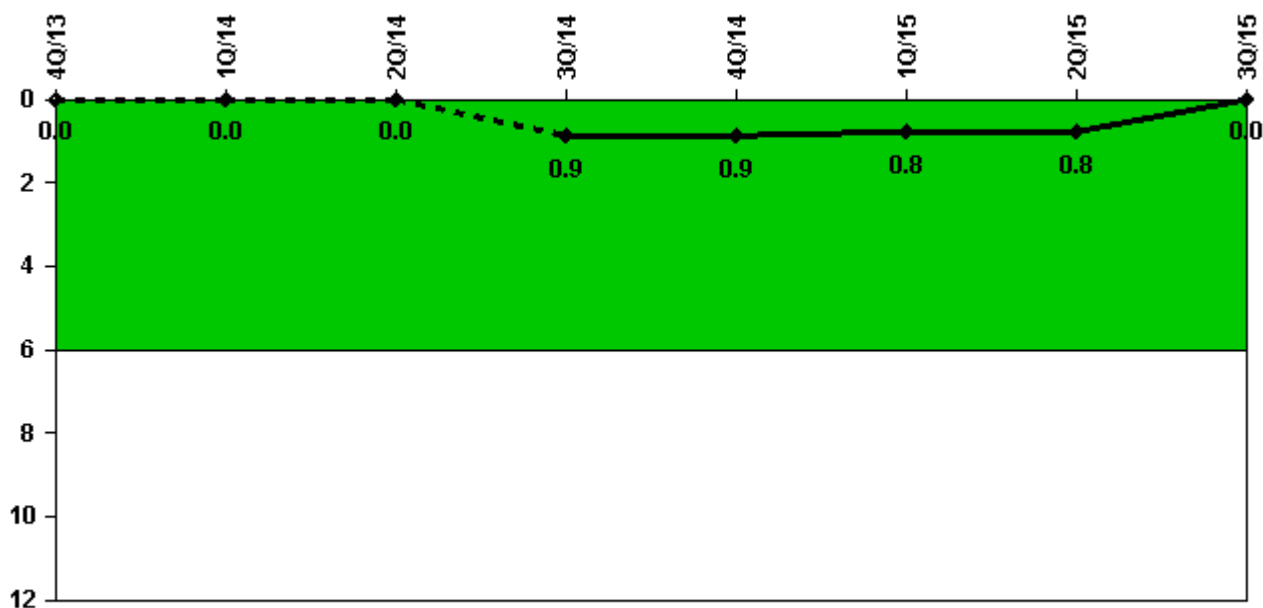
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	1619.8	2184.0	2208.0	2209.0	2159.0	2184.0	2208.0
Indicator value	1.6	0.9	0.9	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

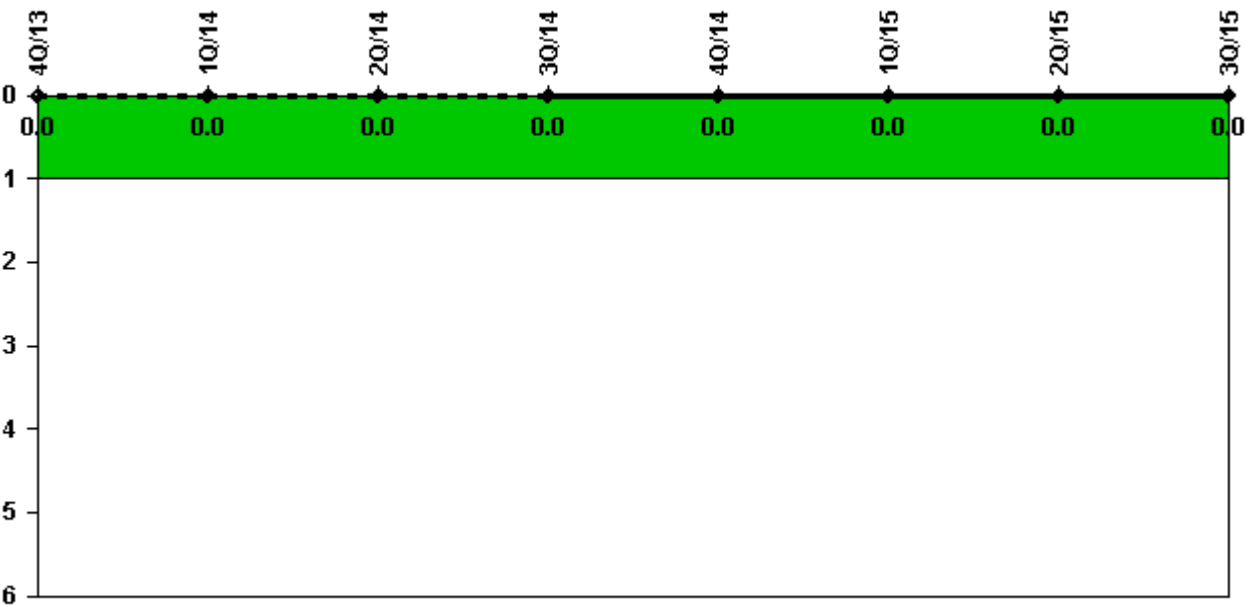
Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2209.0	1619.8	2184.0	2208.0	2209.0	2159.0	2184.0	2208.0
Indicator value	0	0	0	0.9	0.9	0.8	0.8	0

Licensee Comments:

3Q/14: Unplanned power change on September 18, 2014, due to Technical Specification required power change as a result of misaligned control rod/shutdown bank B during testing. Power reduced to approximately 70%.

Unplanned Scrams with Complications



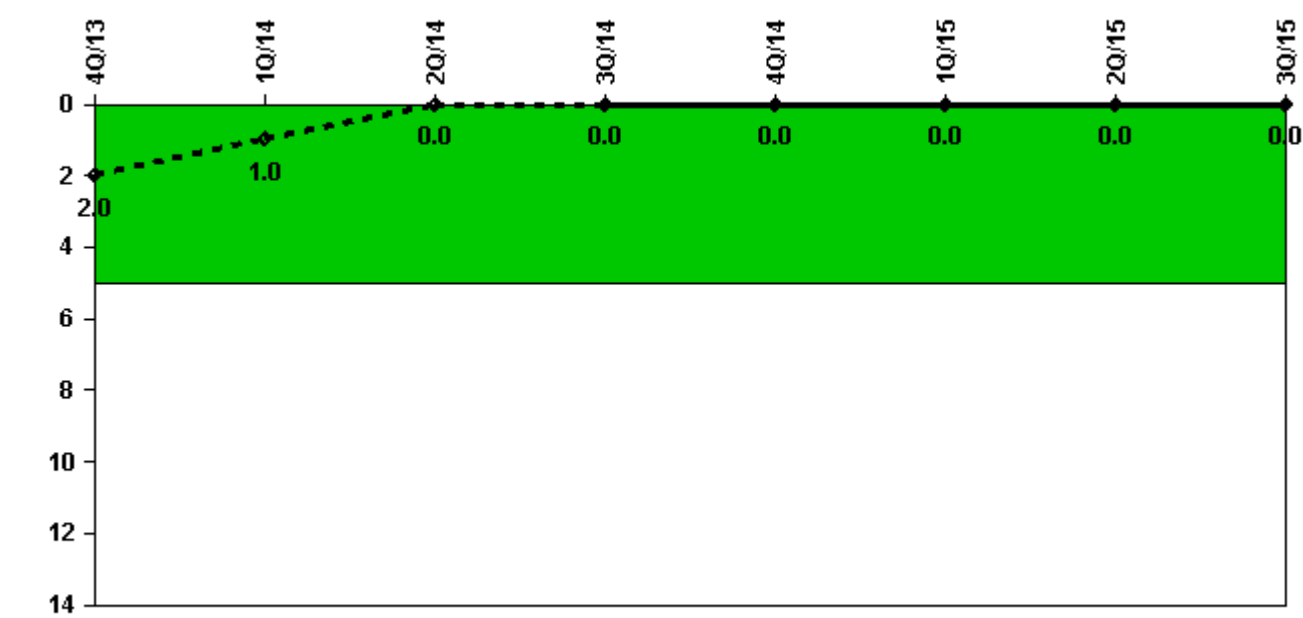
Thresholds: White > 1.0

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)



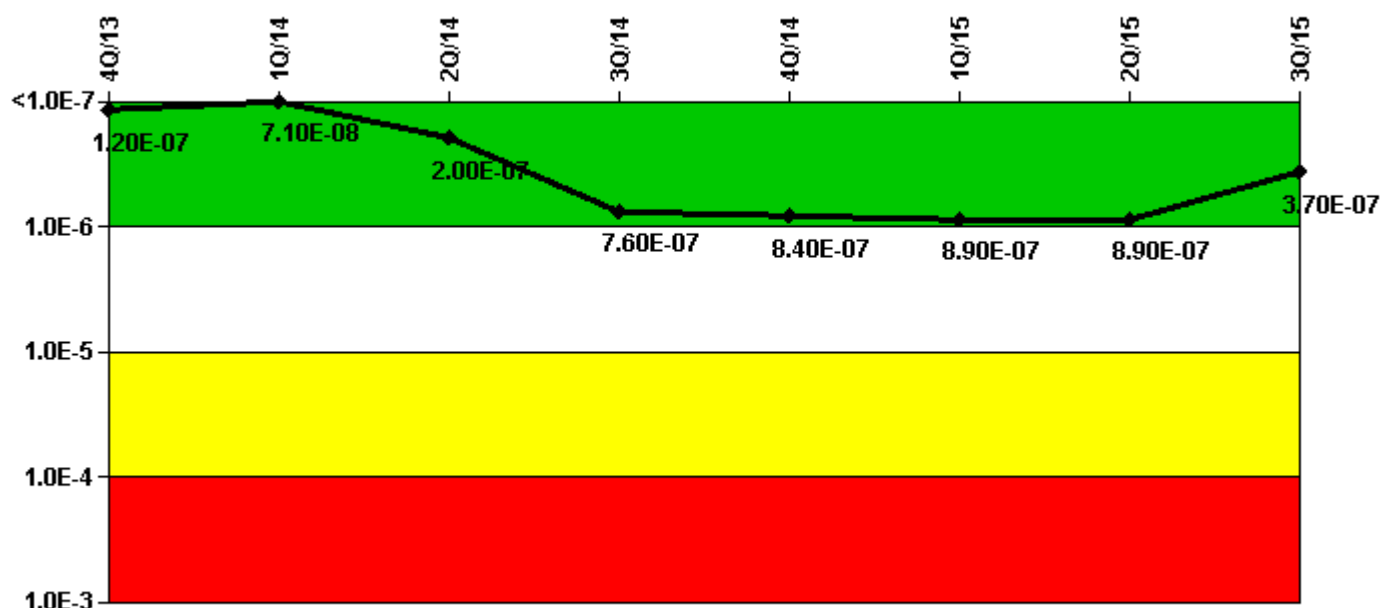
Thresholds: White > 5.0

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	2	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	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (ΔCDF)	2.80E-07	2.73E-07	3.56E-07	3.65E-07	4.23E-07	3.76E-07	3.77E-07	8.74E-08
URI (ΔCDF)	-1.59E-07	-2.03E-07	-1.59E-07	3.93E-07	4.15E-07	5.12E-07	5.14E-07	2.83E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.20E-07	7.10E-08	2.00E-07	7.60E-07	8.40E-07	8.90E-07	8.90E-07	3.70E-07

Licensee Comments:

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

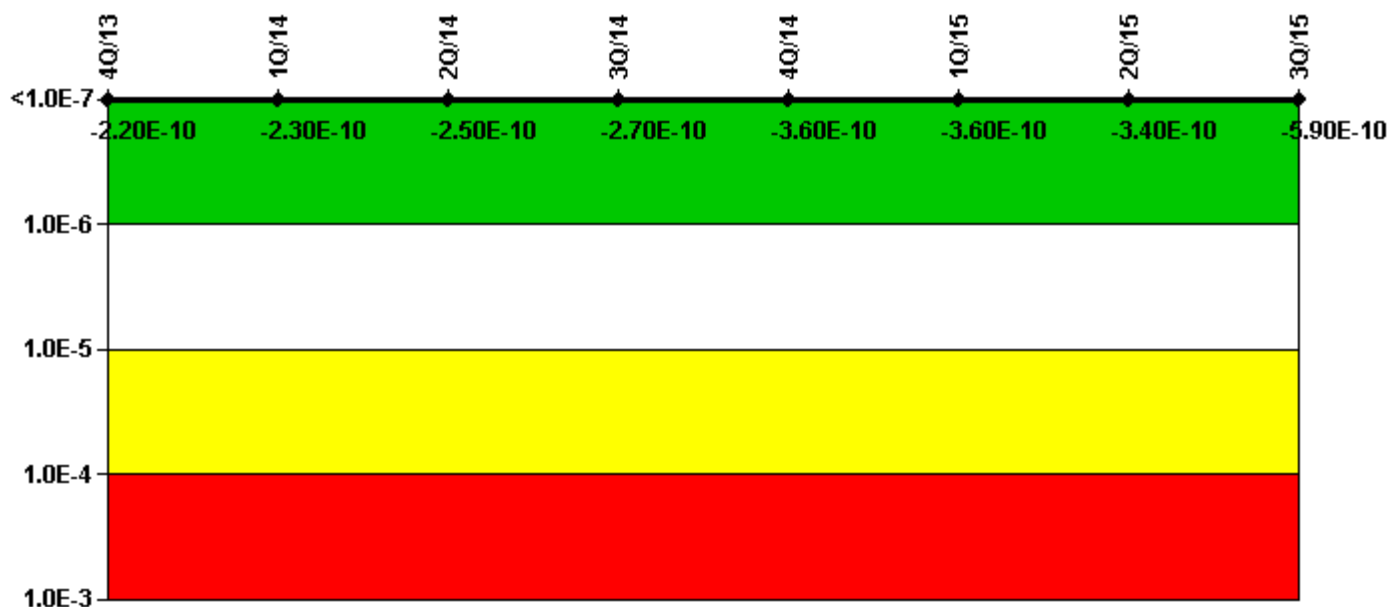
2Q/15: Risk Cap Invoked.

1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked. On September 12, 2014, a lube oil leak was discovered on the vitaulic coupling of the 23 EDG during post maintenance testing. EDG secured. MSPI Run Failure.

Mitigating Systems Performance Index, High Pressure Injection System



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

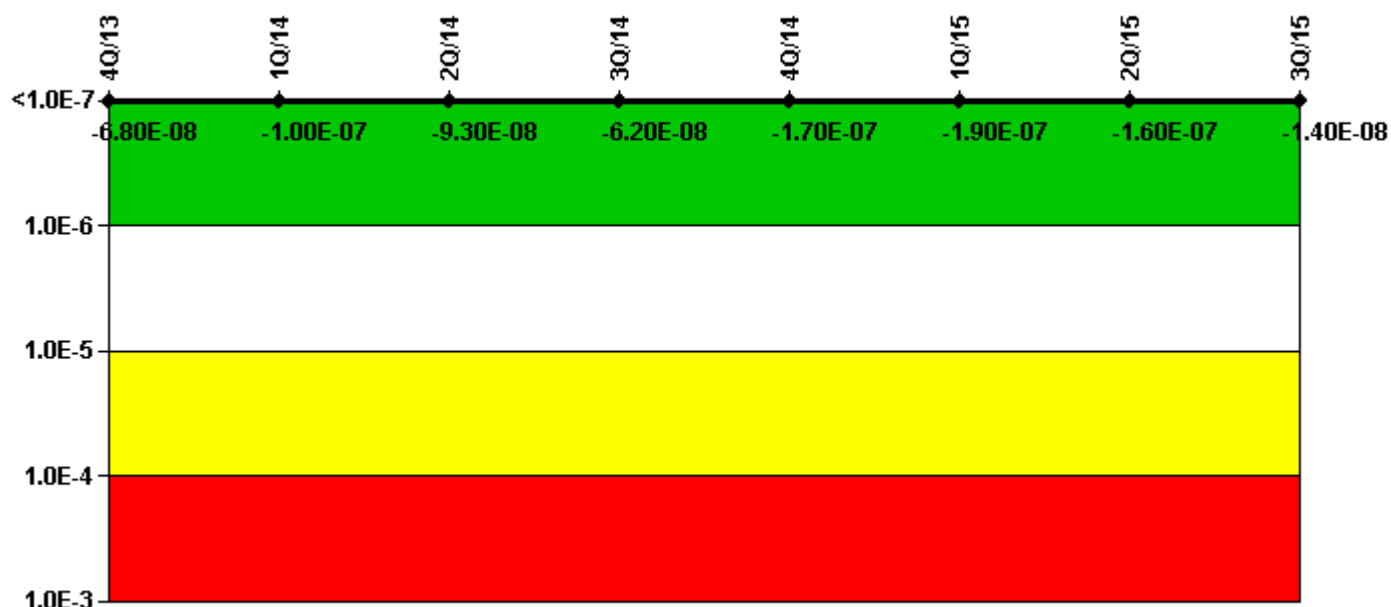
Notes

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)	5.76E-11	6.60E-11	5.21E-11	5.05E-11	-3.50E-11	-3.95E-11	-2.54E-11	-1.41E-10
URI (Δ CDF)	-2.78E-10	-2.92E-10	-3.05E-10	-3.19E-10	-3.27E-10	-3.18E-10	-3.11E-10	-4.51E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-10	-2.30E-10	-2.50E-10	-2.70E-10	-3.60E-10	-3.60E-10	-3.40E-10	-5.90E-10

Licensee Comments:

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Heat Removal System



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

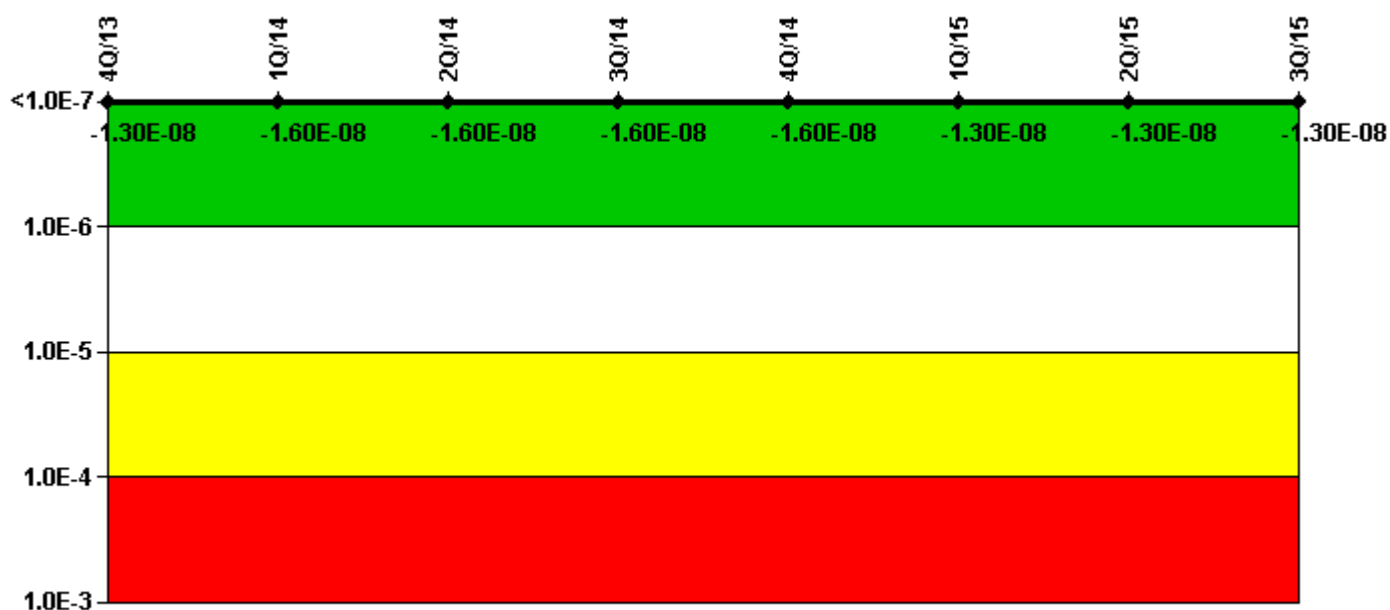
Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	-2.98E-08	-2.85E-08	-2.72E-08	3.81E-09	2.10E-08	5.35E-10	1.06E-08	1.40E-08
URI (Δ CDF)	-3.86E-08	-7.36E-08	-6.60E-08	-6.59E-08	-1.93E-07	-1.86E-07	-1.71E-07	-2.83E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.80E-08	-1.00E-07	-9.30E-08	-6.20E-08	-1.70E-07	-1.90E-07	-1.60E-07	-1.40E-08

Licensee Comments:

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Residual Heat Removal System



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

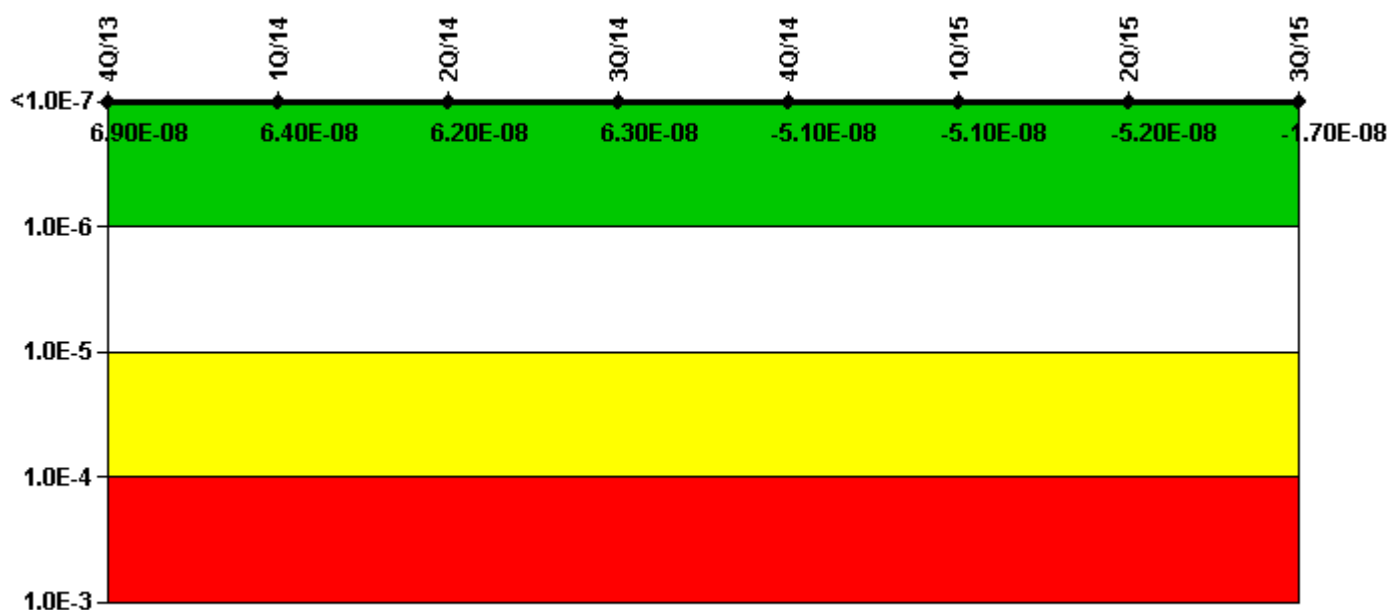
Notes

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)	-4.03E-09	-3.91E-09	-3.97E-09	-3.97E-09	-4.19E-09	-4.35E-09	-4.36E-09	-4.04E-09
URI (Δ CDF)	-9.12E-09	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-8.35E-09	-8.26E-09	-8.47E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.30E-08	-1.30E-08	-1.30E-08

Licensee Comments:

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Cooling Water Systems



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

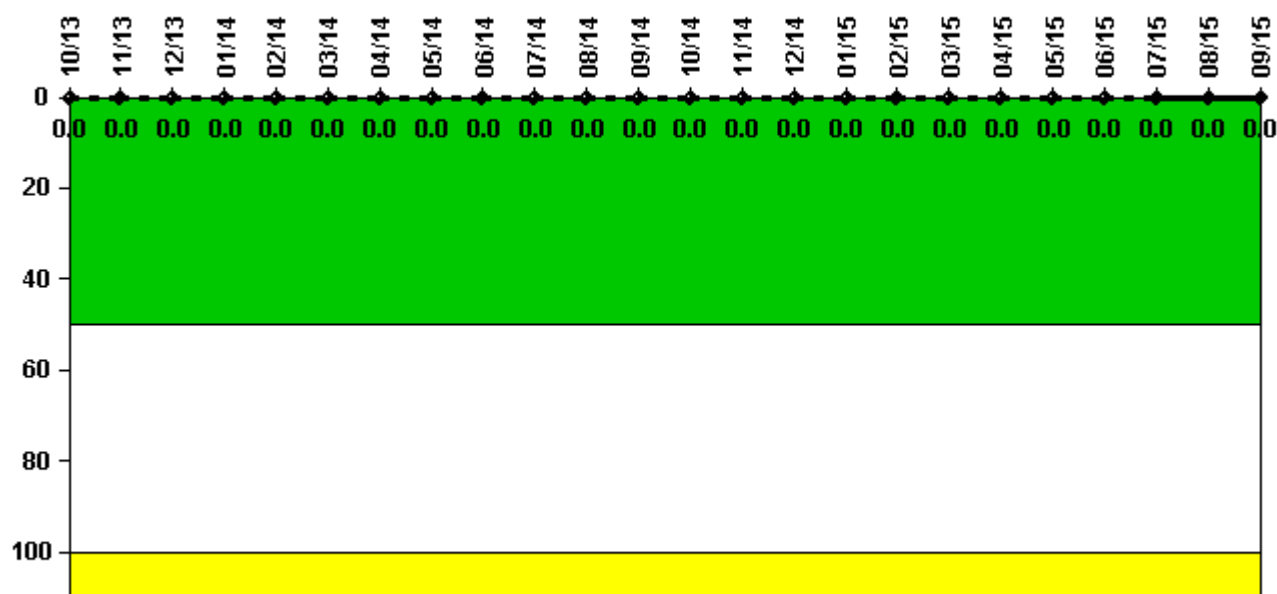
Notes

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)	-1.93E-09	-3.47E-09	-3.28E-09	-3.61E-09	-4.38E-09	-4.67E-09	-5.17E-09	3.42E-09
URI (Δ CDF)	7.05E-08	6.71E-08	6.55E-08	6.66E-08	-4.68E-08	-4.64E-08	-4.64E-08	-2.06E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.90E-08	6.40E-08	6.20E-08	6.30E-08	-5.10E-08	-5.10E-08	-5.20E-08	-1.70E-08

Licensee Comments:

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes were made to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Reactor Coolant System Activity



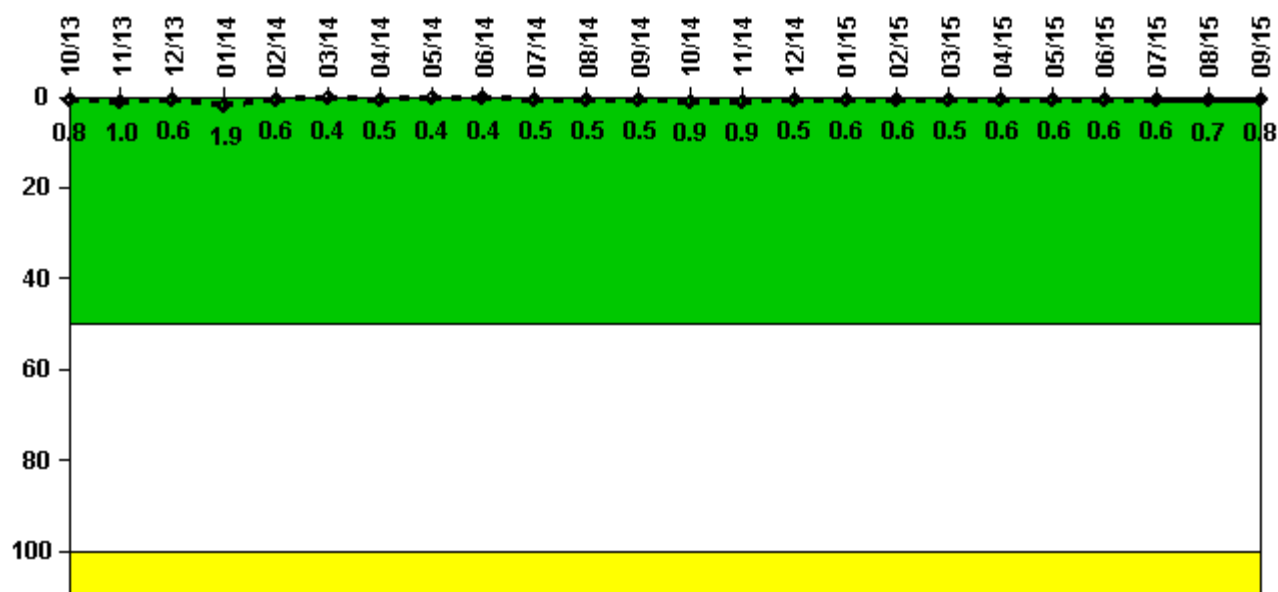
Thresholds: White > 50.0 Yellow > 100.0

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	0.000257	0.000273	0.000276	0.000278	0.000334	0.000125	0.000159	0.000133	0.000165	0.000153	0.000141	0.000148
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum activity	0.000158	0.000170	0.000175	0.000175	0.000170	0.000195	0.000182	0.000179	0.000190	0.000206	0.000202	0.000203
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



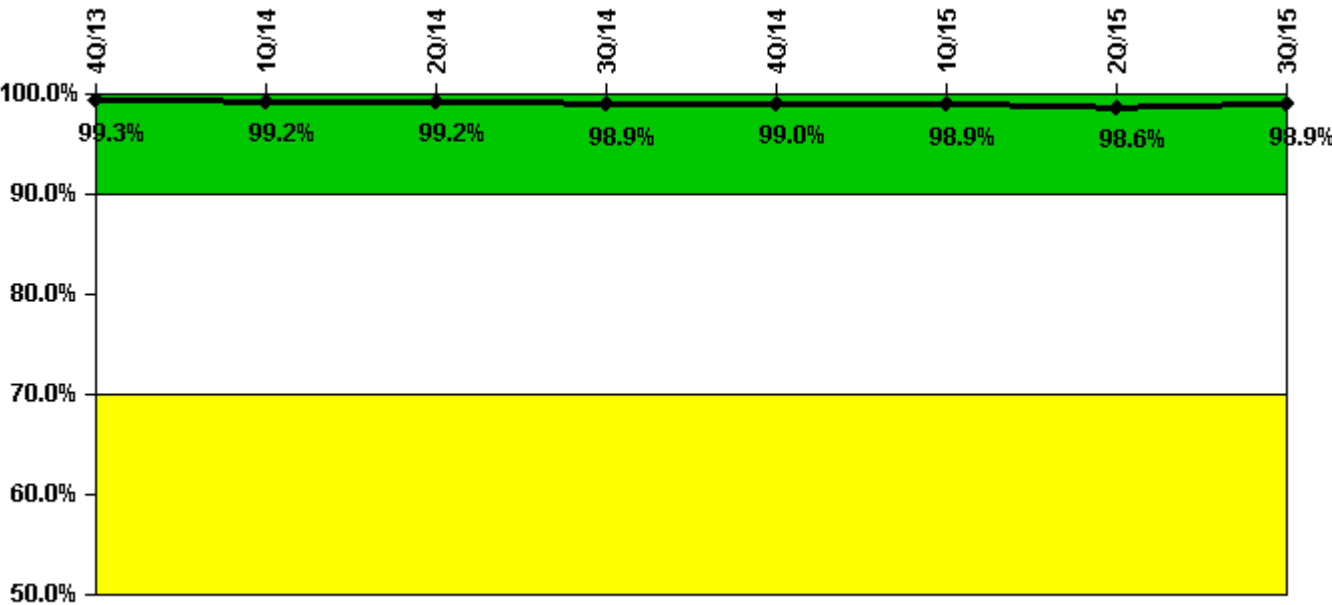
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum leakage	0.080	0.100	0.060	0.190	0.060	0.040	0.050	0.040	0.040	0.050	0.050	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.8	1.0	0.6	1.9	0.6	0.4	0.5	0.4	0.4	0.5	0.5	0.5
Reactor Coolant System Leakage	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum leakage	0.090	0.090	0.053	0.060	0.060	0.050	0.060	0.060	0.060	0.060	0.070	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.9	0.9	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.7	0.8

Licensee Comments: none

Drill/Exercise Performance



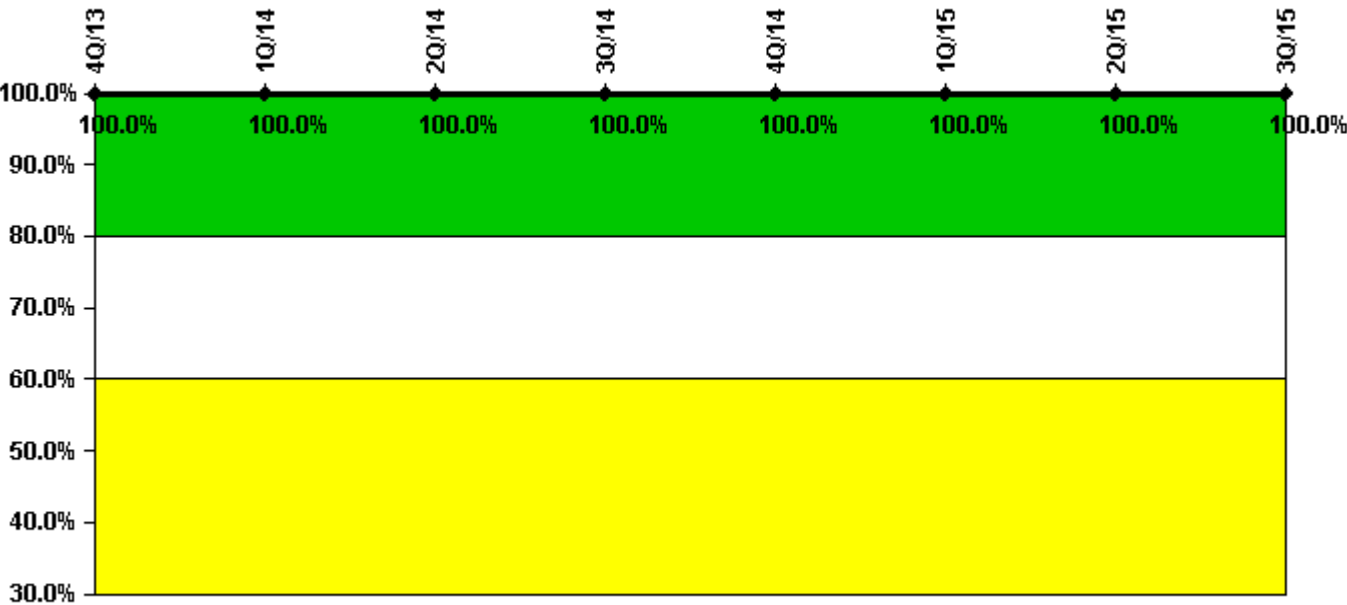
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful opportunities	127.0	50.0	110.0	200.0	109.0	20.0	71.0	146.0
Total opportunities	127.0	51.0	112.0	203.0	109.0	21.0	72.0	147.0
Indicator value	99.3%	99.2%	99.2%	98.9%	99.0%	98.9%	98.6%	98.9%

Licensee Comments: none

ERO Drill Participation



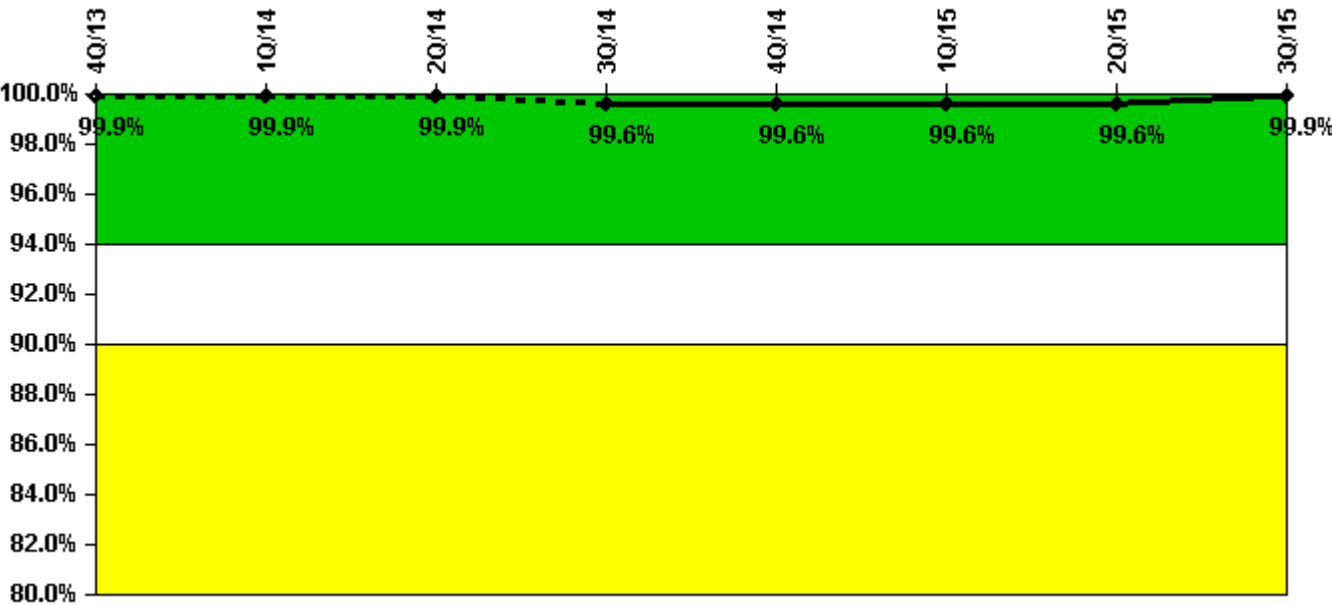
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Participating Key personnel	111.0	104.0	104.0	100.0	106.0	104.0	104.0	105.0
Total Key personnel	111.0	104.0	104.0	100.0	106.0	104.0	104.0	105.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



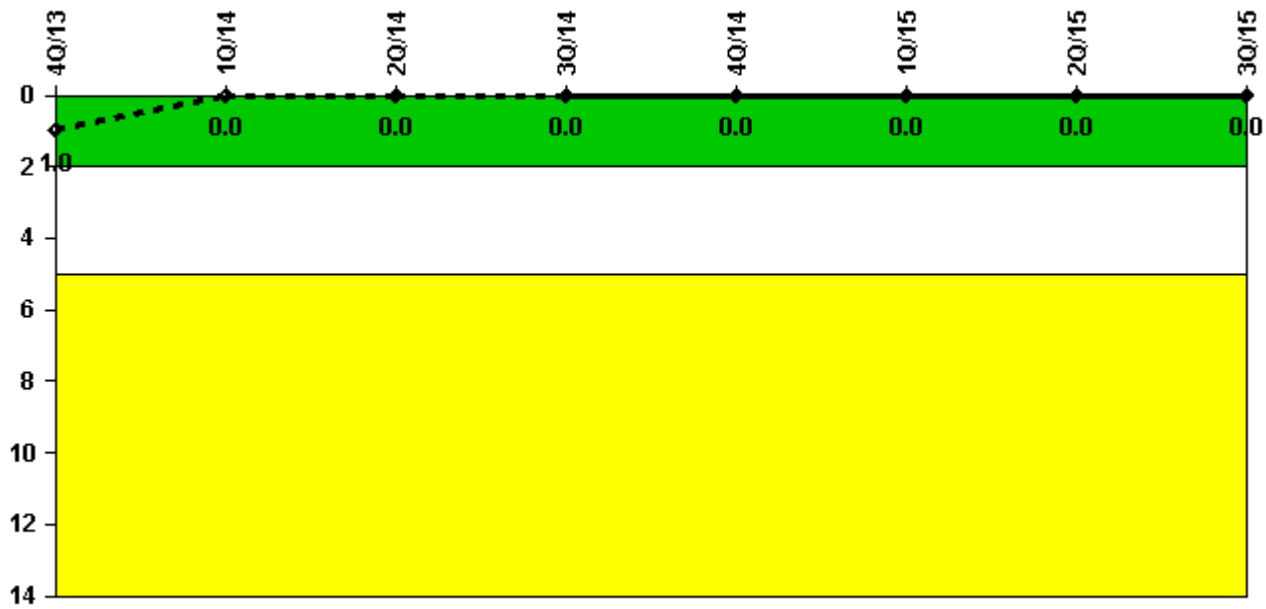
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful siren-tests	1226	1148	1079	1110	1104	1135	917	1105
Total sirens-tests	1227	1148	1081	1126	1104	1135	917	1109
Indicator value	99.9%	99.9%	99.9%	99.6%	99.6%	99.6%	99.6%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness

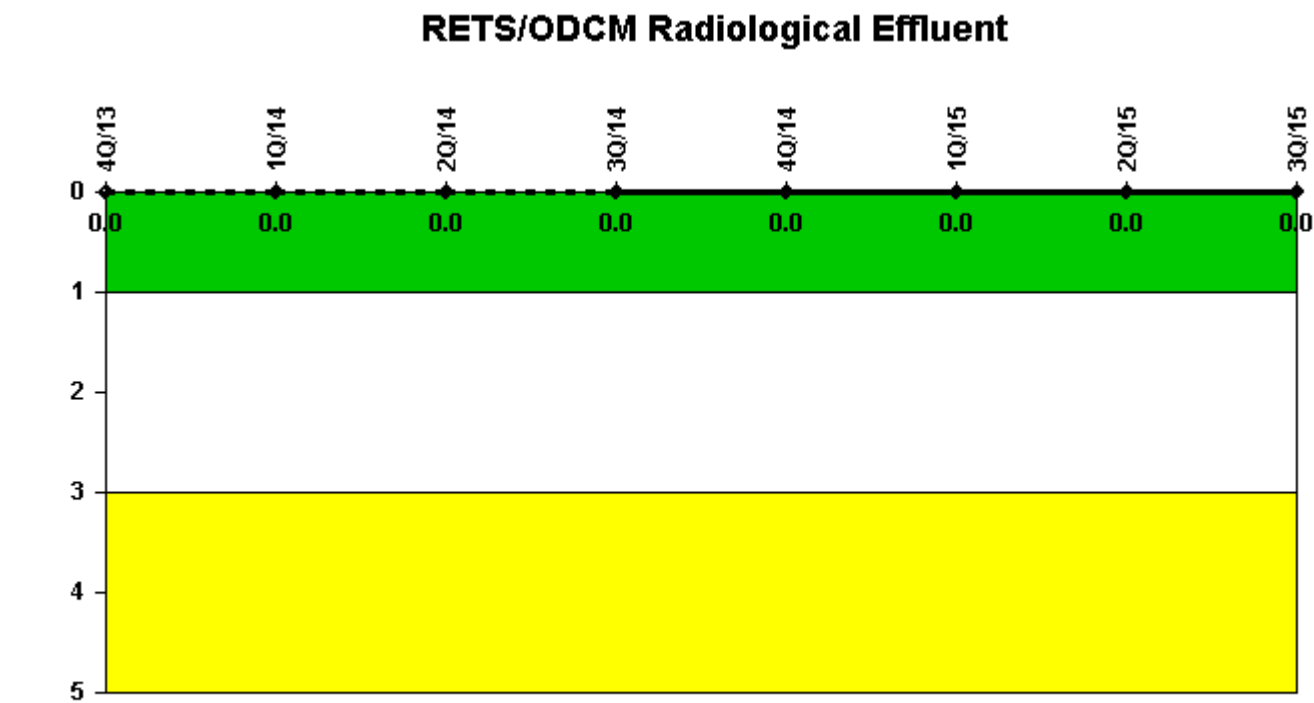


Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	1	0	0	0	0	0	0	0

Licensee Comments: none



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

Last Modified: December 15, 2015

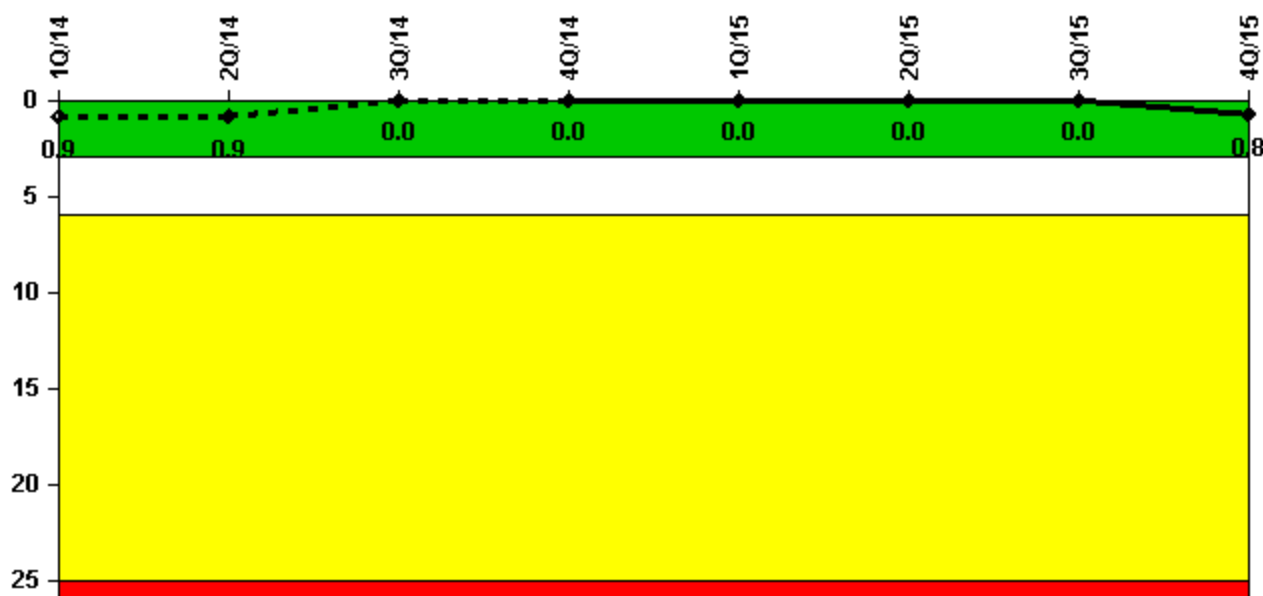
Indian Point 2

4Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

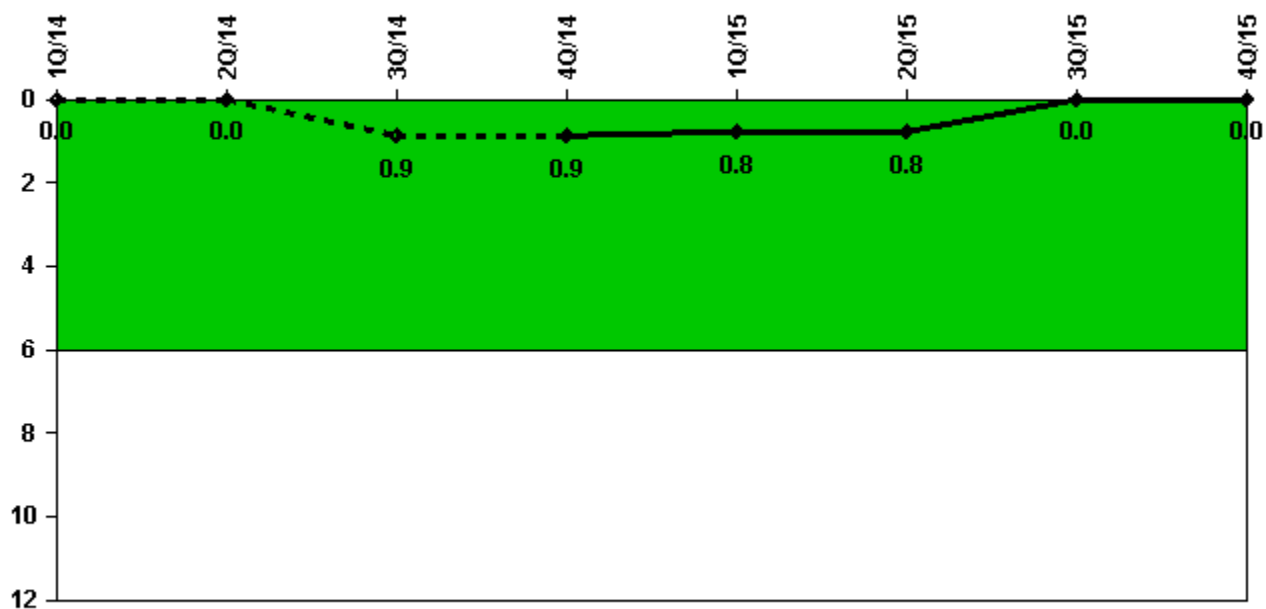
Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	1619.8	2184.0	2208.0	2209.0	2159.0	2184.0	2208.0	2154.3
Indicator value	0.9	0.9	0	0	0	0	0	0.8

Licensee Comments:

4Q/15: On December 5, 2015, a manual reactor trip was initiated due to indications of multiple dropped control rods. Initiating event was a fault of Motor Control Center (MCC) 24-2H that caused the upstream supply breaker to open to clear the fault resulting in a loss of power to the operating backup power supply in Rod Control Cabinet 2BD with a degraded primary power supply. The loss of power to the Control Rod System caused the Control Rod stationary grippers to de-energize and rods inserted into the reactor core.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

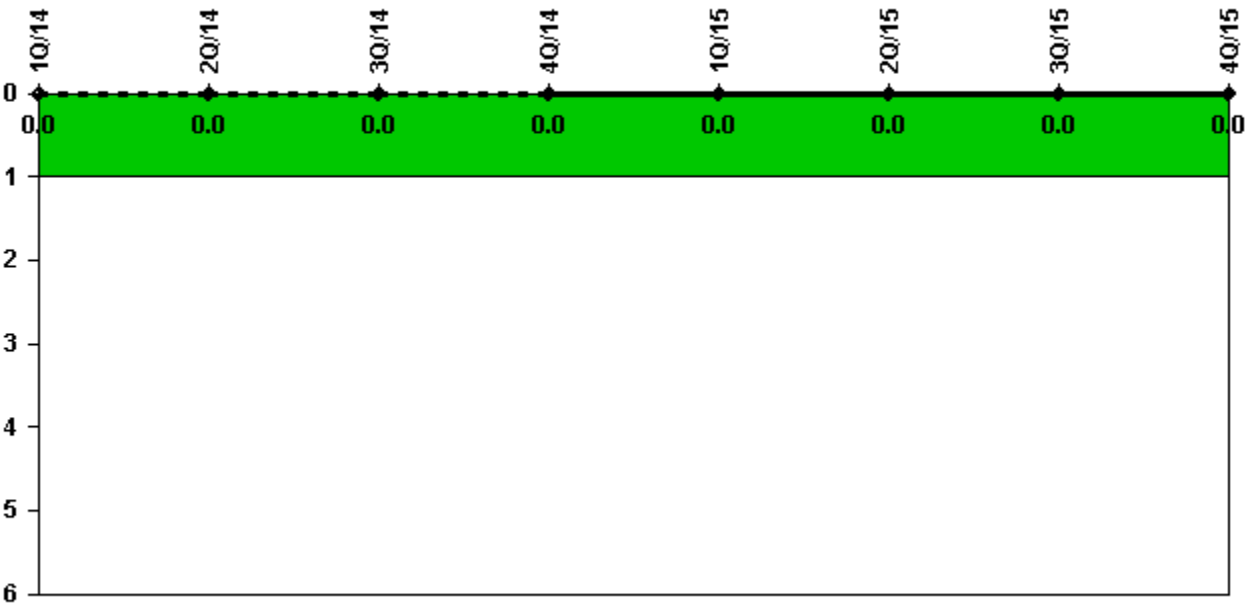
Notes

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	1.0	0	0	0	0	0
Critical hours	1619.8	2184.0	2208.0	2209.0	2159.0	2184.0	2208.0	2154.3
Indicator value	0	0	0.9	0.9	0.8	0.8	0	0

Licensee Comments:

3Q/14: Unplanned power change on September 18, 2014, due to Technical Specification required power change as a result of misaligned control rod/shutdown bank B during testing. Power reduced to approximately 70%.

Unplanned Scrams with Complications



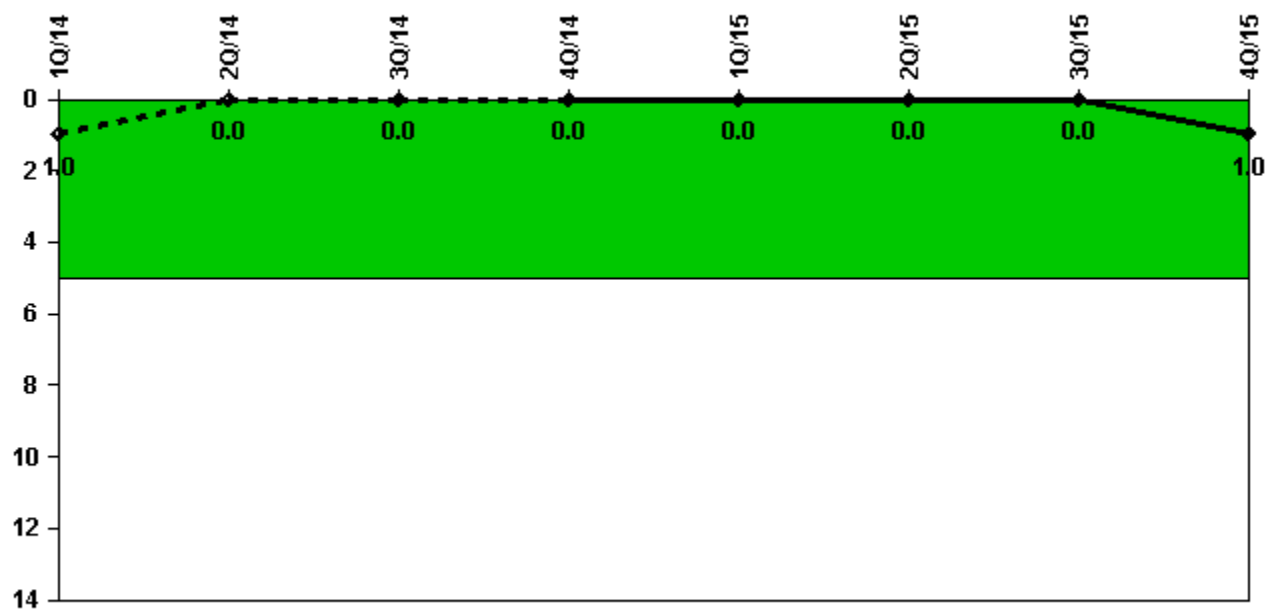
Thresholds: White > 1.0

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

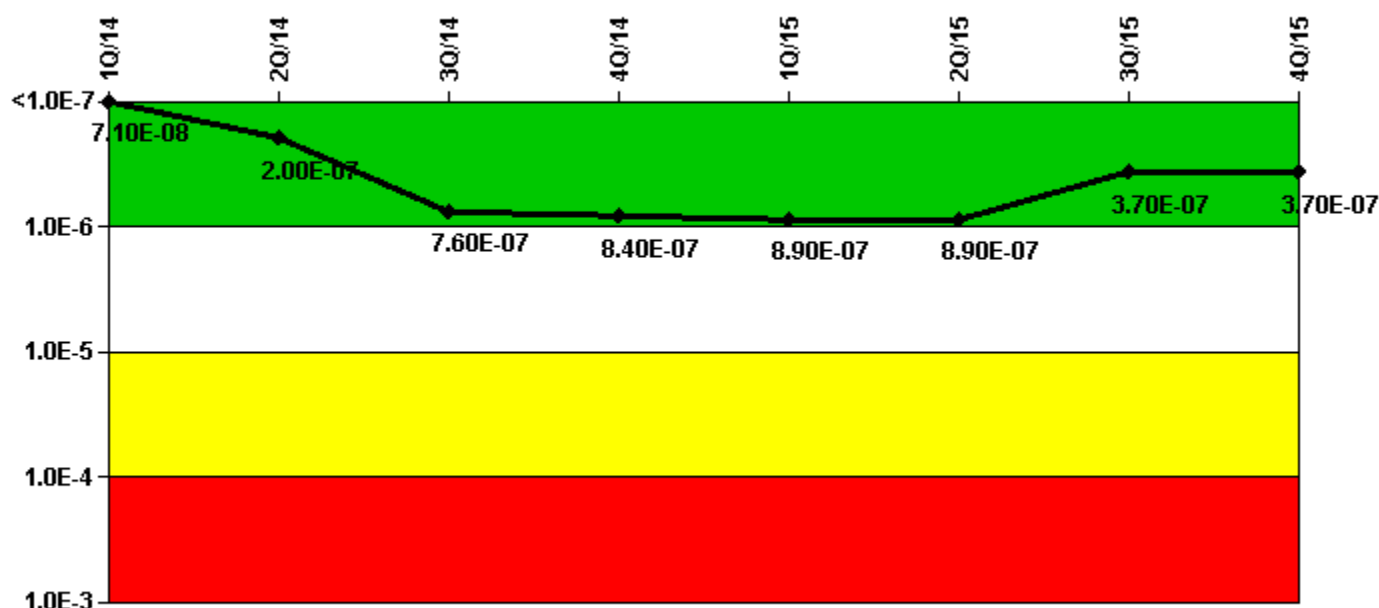
Notes

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	1
Indicator value	1	0	0	0	0	0	0	1

Licensee Comments:

4Q/15: LER-2015-002 reported a SSFF on October 19, 2015, due to fuses for the Residual Heat Removal Heat Exchanger outlet valves that would not remain operable under degraded voltage conditions.

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (ΔCDF)	2.73E-07	3.56E-07	3.65E-07	4.23E-07	3.76E-07	3.77E-07	8.74E-08	8.64E-08
URI (ΔCDF)	-2.03E-07	-1.59E-07	3.93E-07	4.15E-07	5.12E-07	5.14E-07	2.83E-07	2.83E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.10E-08	2.00E-07	7.60E-07	8.40E-07	8.90E-07	8.90E-07	3.70E-07	3.70E-07

Licensee Comments:

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

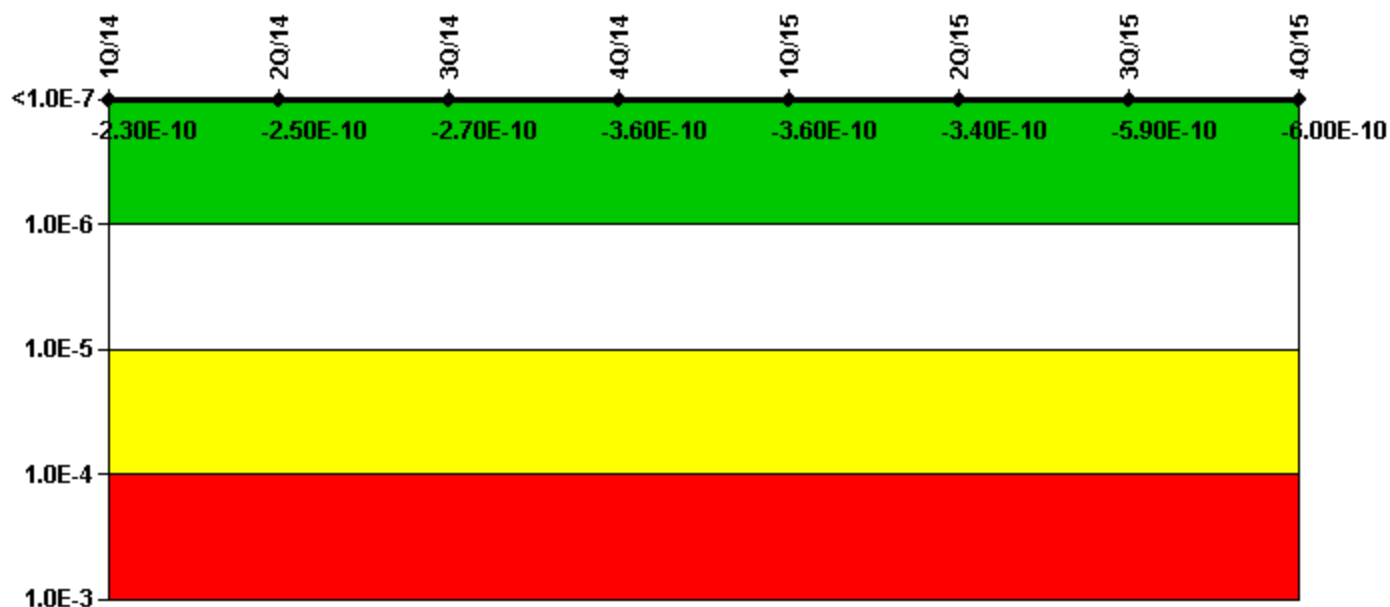
2Q/15: Risk Cap Invoked.

1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked. On September 12, 2014, a lube oil leak was discovered on the vitaulic coupling of the 23 EDG during post maintenance testing. EDG secured. MSPI Run Failure.

Mitigating Systems Performance Index, High Pressure Injection System



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

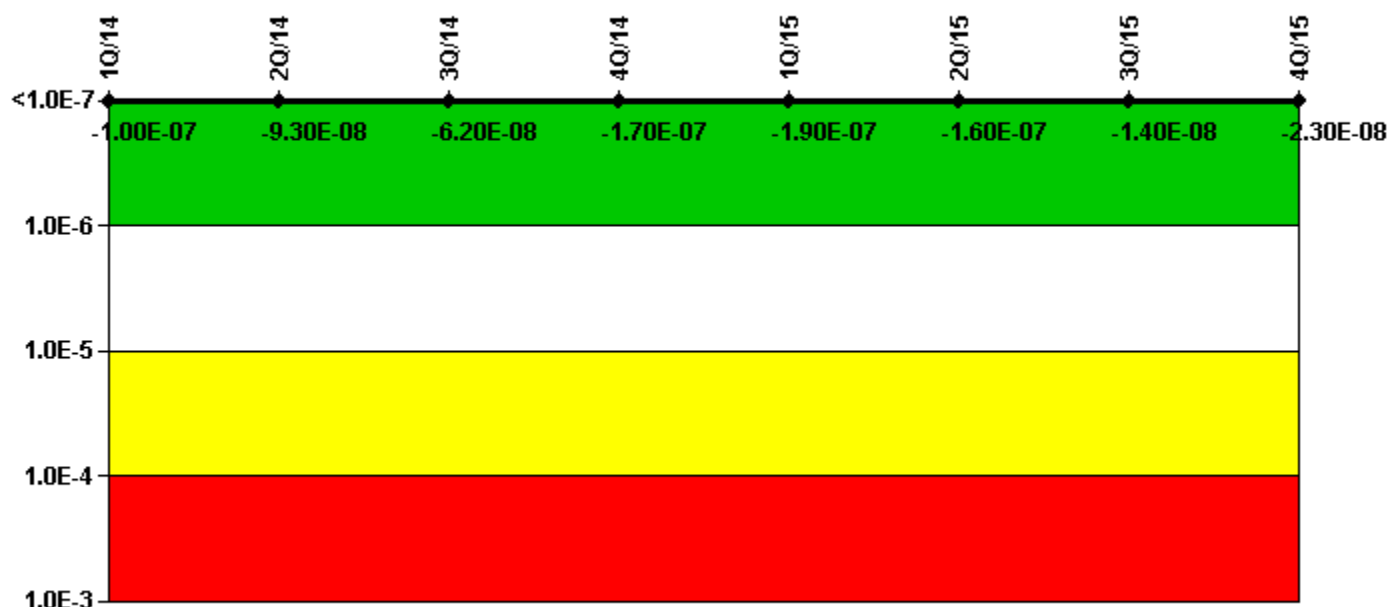
Notes

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)	6.60E-11	5.21E-11	5.05E-11	-3.50E-11	-3.95E-11	-2.54E-11	-1.41E-10	-1.51E-10
URI (Δ CDF)	-2.92E-10	-3.05E-10	-3.19E-10	-3.27E-10	-3.18E-10	-3.11E-10	-4.51E-10	-4.53E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-10	-2.50E-10	-2.70E-10	-3.60E-10	-3.60E-10	-3.40E-10	-5.90E-10	-6.00E-10

Licensee Comments:

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Heat Removal System



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

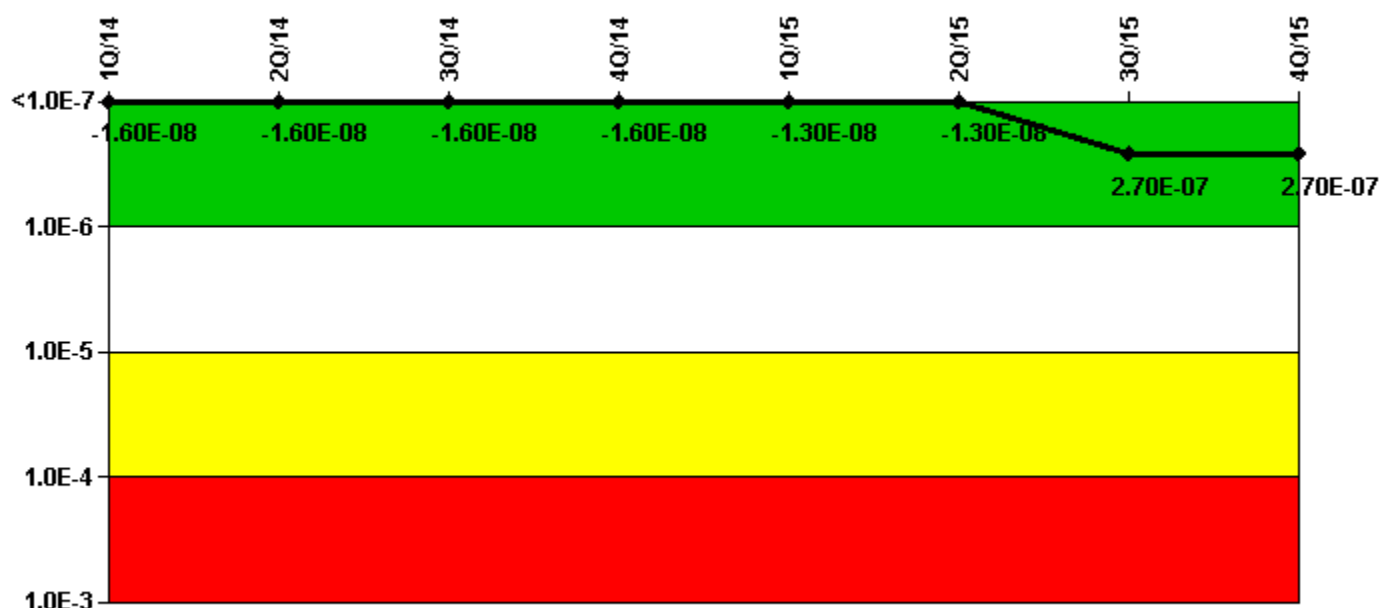
Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	-2.85E-08	-2.72E-08	3.81E-09	2.10E-08	5.35E-10	1.06E-08	1.40E-08	6.84E-09
URI (Δ CDF)	-7.36E-08	-6.60E-08	-6.59E-08	-1.93E-07	-1.86E-07	-1.71E-07	-2.83E-08	-2.94E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.00E-07	-9.30E-08	-6.20E-08	-1.70E-07	-1.90E-07	-1.60E-07	-1.40E-08	-2.30E-08

Licensee Comments:

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

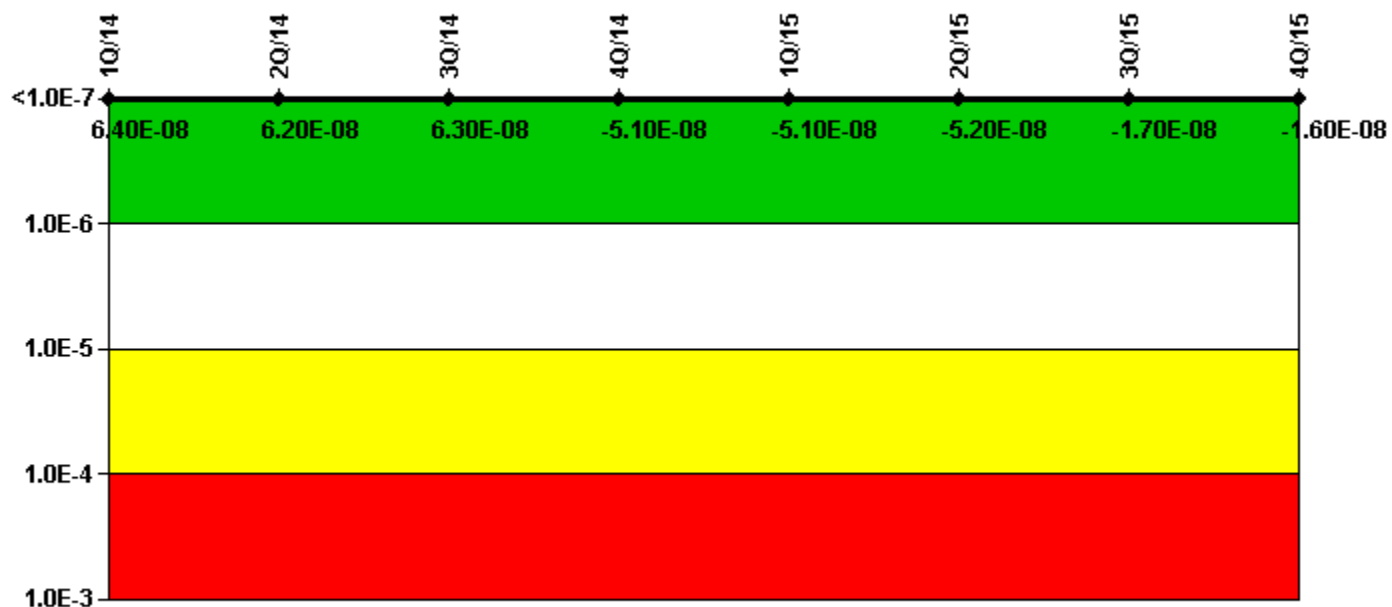
Mitigating Systems Performance Index, Residual Heat Removal System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	-3.91E-09	-3.97E-09	-3.97E-09	-4.19E-09	-4.35E-09	-4.36E-09	-3.99E-09	-4.26E-09
URI (Δ CDF)	-1.17E-08	-1.17E-08	-1.17E-08	-1.17E-08	-8.35E-09	-8.26E-09	2.70E-07	2.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.30E-08	-1.30E-08	2.70E-07	2.70E-07

Licensee Comments:

3Q/15: The planned unavailability hours changed for the 21 and 22 RHR pump (0.0 hrs to 0.8 hrs) to reflect the final OE that the valves were inoperable as a result of the response to a CBDI inspection question and a final determination that the normally closed 21 and 22 RHR Pumps Heat Exchanger outlet valves (MOV-746 & MOV-747) would not adequately operate under degraded voltage conditions as a result of inadequate fuses. This resulted in both trains of RHR being considered inoperable. LER-2015-002 reported this event as a safety system functional failure. On December 29, 2015, ICES input data for the RHR event was determined to be complete which included a Maintenance Rule functional failure and MSPI safety system functional failure of both RHR Hx outlet valves. The ICES report was completed in ICES and initiated for review by INPO December 29, 2015. This action caused MSPI to be recalculated.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

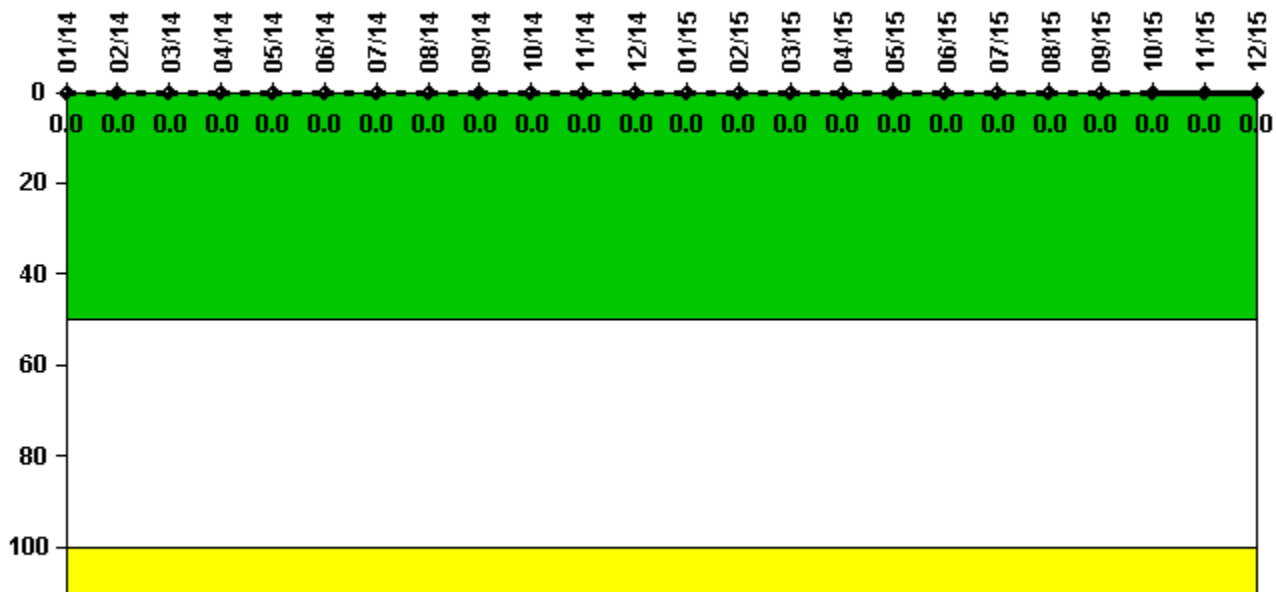
Mitigating Systems Performance Index, Cooling Water Systems	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
UAI (Δ CDF)	-3.47E-09	-3.28E-09	-3.61E-09	-4.38E-09	-4.67E-09	-5.17E-09	3.42E-09	3.50E-09
URI (Δ CDF)	6.71E-08	6.55E-08	6.66E-08	-4.68E-08	-4.64E-08	-4.64E-08	-2.07E-08	-1.95E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.40E-08	6.20E-08	6.30E-08	-5.10E-08	-5.10E-08	-5.20E-08	-1.70E-08	-1.60E-08

Licensee Comments:

3Q/15: The September 2015 CCWP demands and run hours were revised. 21 CCP demands changed from 0 to 1, run hours changed from 0.0 to 0.58; 22 CCP demands changed from 0 to 1, run hours changed from 720.0 to 719.48; 23 CCP demands changed from 0 to 1; run hours changed from 720.0 to 719.47.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes were made to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

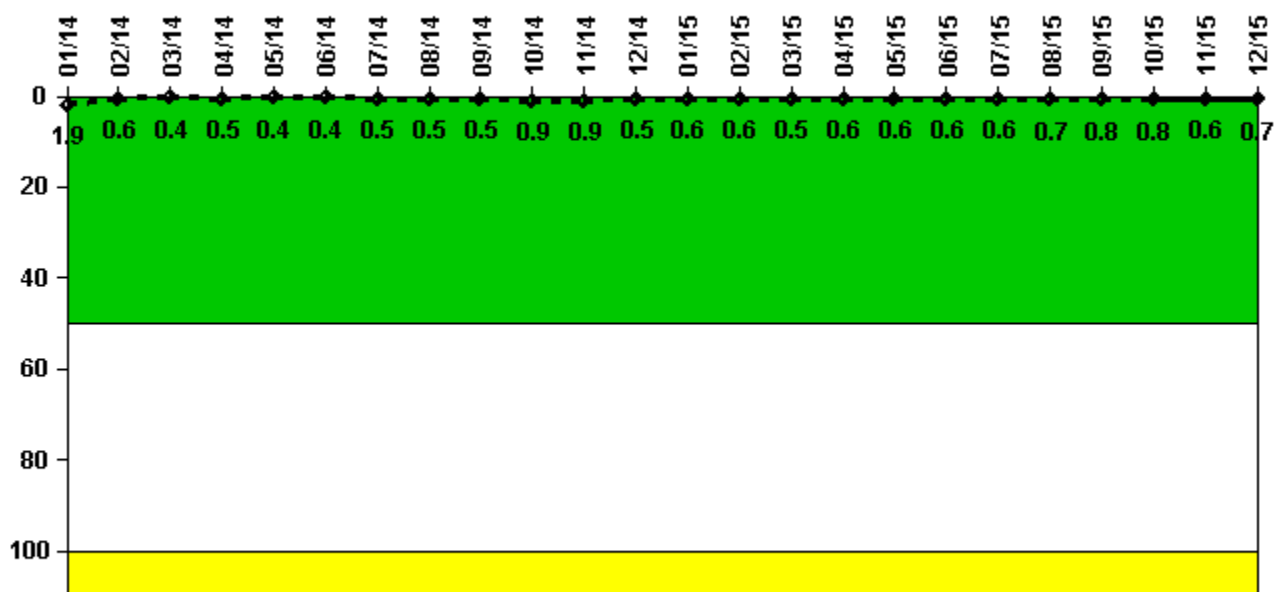
Notes

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	0.000278	0.000334	0.000125	0.000159	0.000133	0.000165	0.000153	0.000141	0.000148	0.000158	0.000170	0.000175
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum activity	0.000175	0.000170	0.000195	0.000182	0.000179	0.000190	0.000206	0.000202	0.000203	0.000216	0.000260	0.000223
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator												

value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



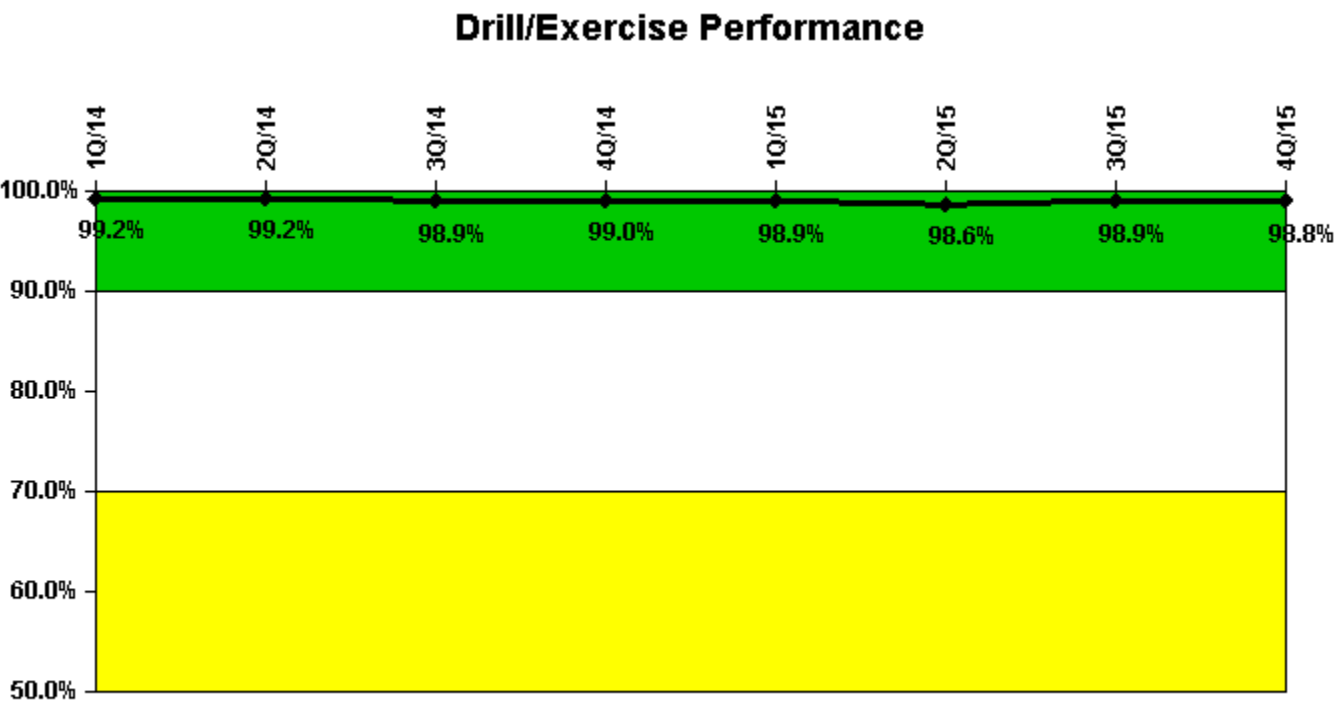
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum leakage	0.190	0.060	0.040	0.050	0.040	0.040	0.050	0.050	0.050	0.090	0.090	0.053
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.9	0.6	0.4	0.5	0.4	0.4	0.5	0.5	0.5	0.9	0.9	0.5

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	0.060	0.060	0.050	0.060	0.060	0.060	0.060	0.070	0.080	0.080	0.060	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.7	0.8	0.8	0.6	0.7

Licensee Comments: none



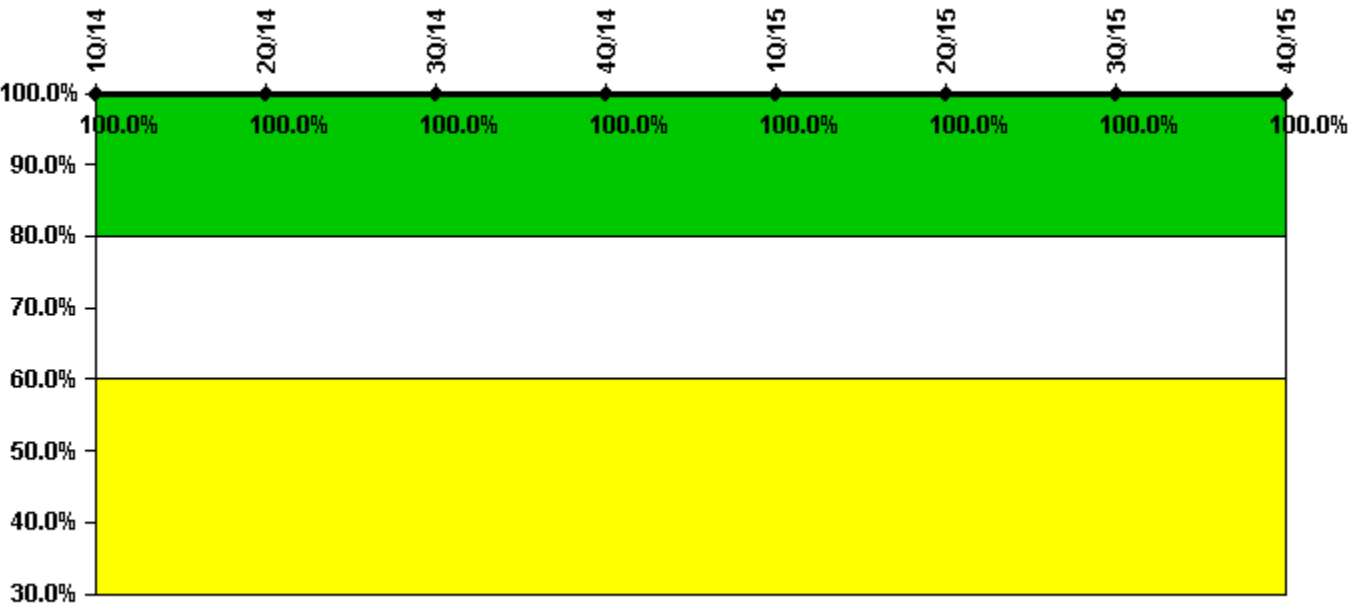
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful opportunities	50.0	110.0	200.0	109.0	20.0	71.0	146.0	28.0
Total opportunities	51.0	112.0	203.0	109.0	21.0	72.0	147.0	28.0
Indicator value	99.2%	99.2%	98.9%	99.0%	98.9%	98.6%	98.9%	98.8%

Licensee Comments: none

ERO Drill Participation



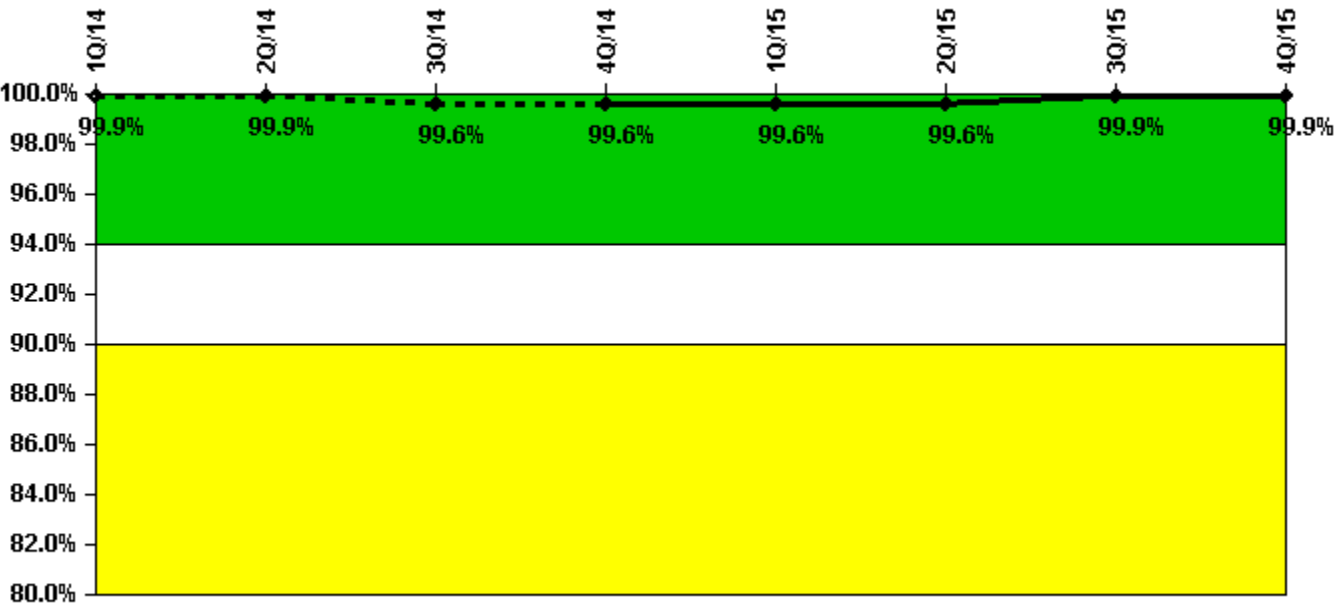
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Participating Key personnel	104.0	104.0	100.0	106.0	104.0	104.0	105.0	103.0
Total Key personnel	104.0	104.0	100.0	106.0	104.0	104.0	105.0	103.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



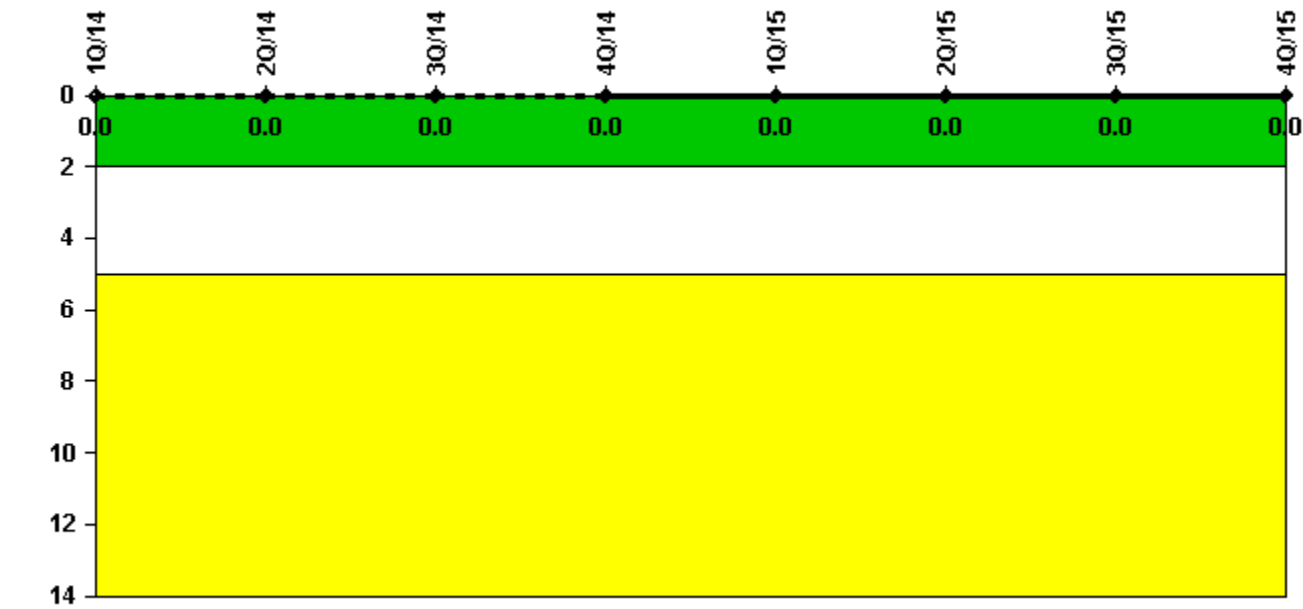
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful siren-tests	1148	1079	1110	1104	1135	917	1105	1046
Total sirens-tests	1148	1081	1126	1104	1135	917	1109	1046
Indicator value	99.9%	99.9%	99.6%	99.6%	99.6%	99.6%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



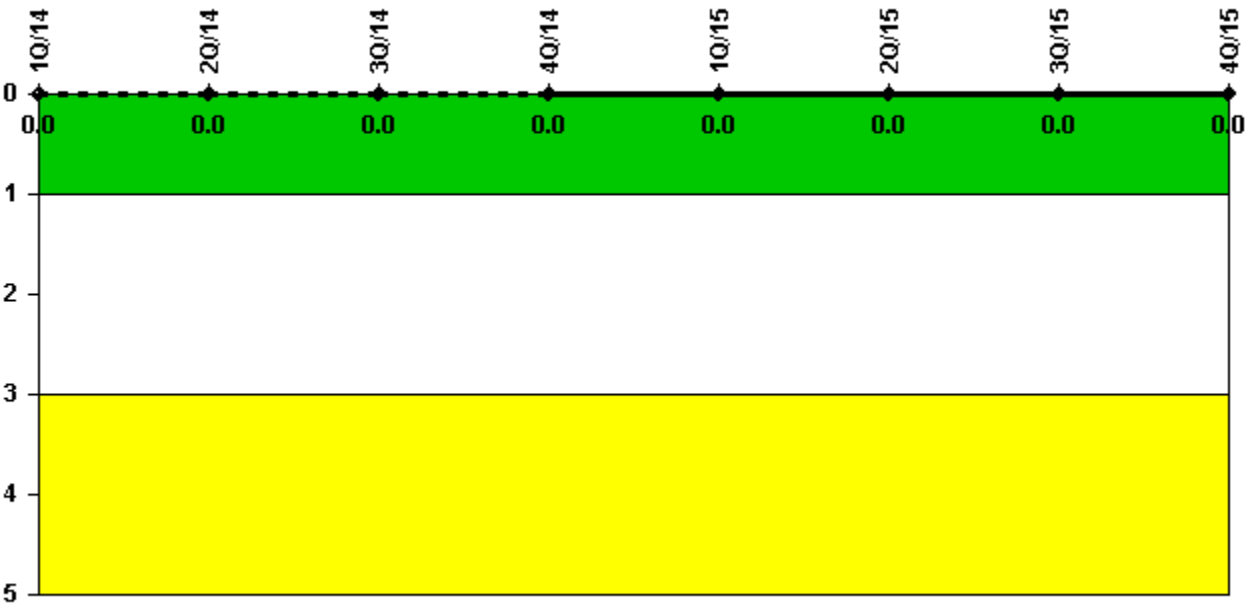
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

Last Modified: March 1, 2016

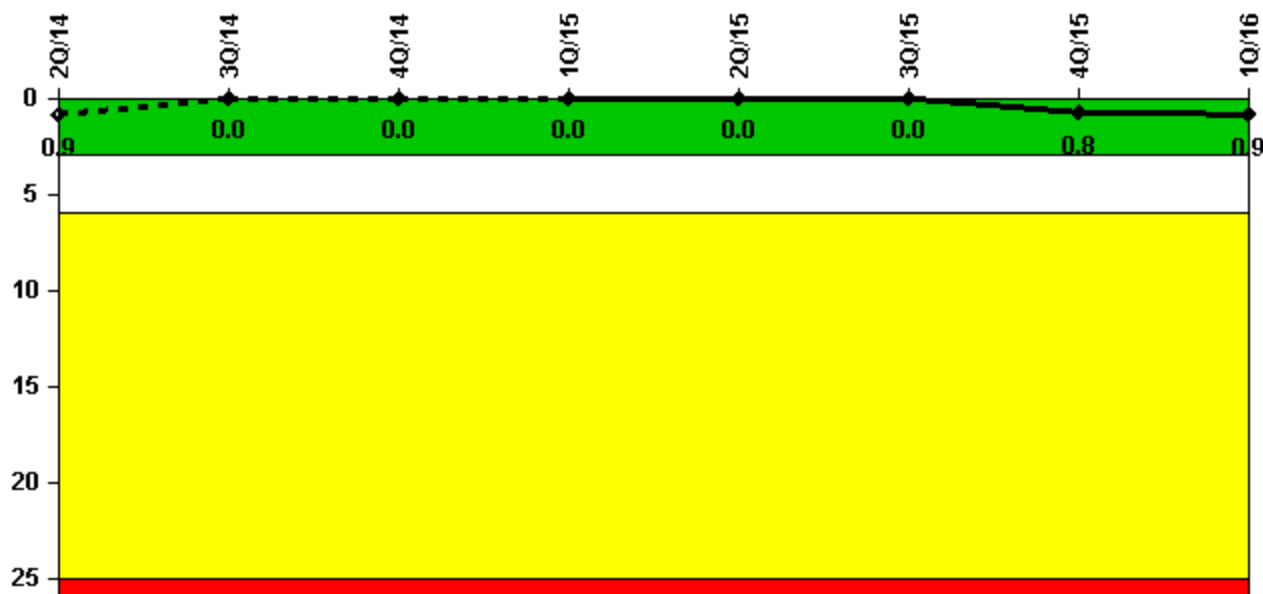
Indian Point 2

1Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

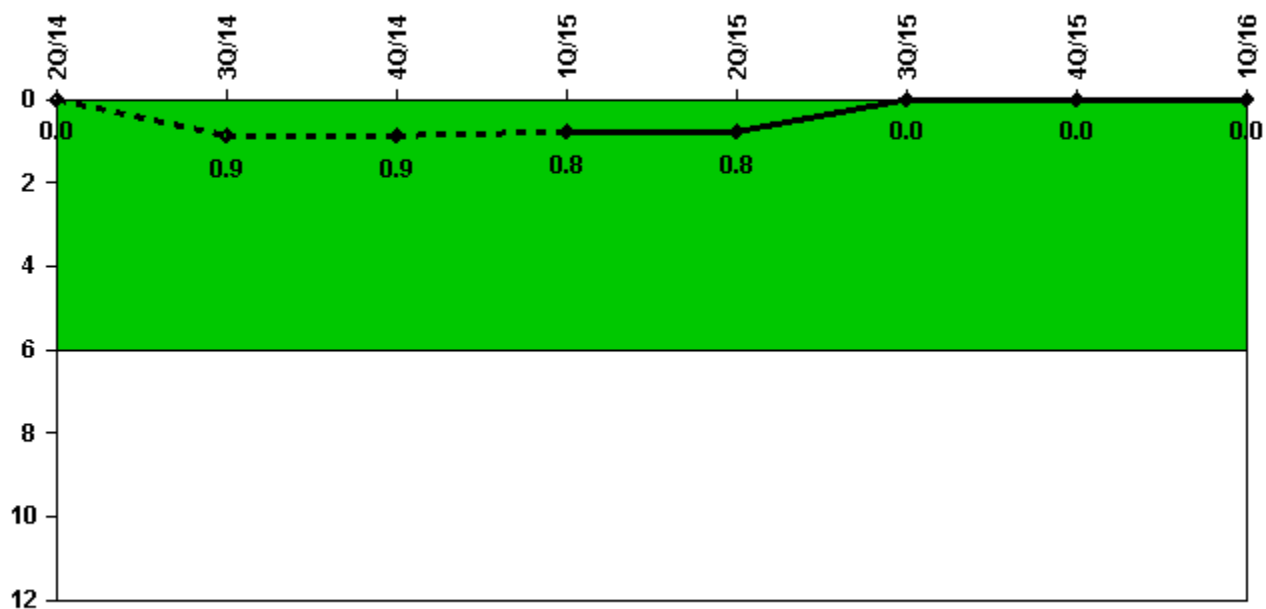
Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2184.0	2208.0	2209.0	2159.0	2184.0	2208.0	2154.3	1584.0
Indicator value	0.9	0	0	0	0	0	0.8	0.9

Licensee Comments:

4Q/15: On December 5, 2015, a manual reactor trip was initiated due to indications of multiple dropped control rods. Initiating event was a fault of Motor Control Center (MCC) 24-2H that caused the upstream supply breaker to open to clear the fault resulting in a loss of power to the operating backup power supply in Rod Control Cabinet 2BD with a degraded primary power supply. The loss of power to the Control Rod System caused the Control Rod stationary grippers to de-energize and rods inserted into the reactor core.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

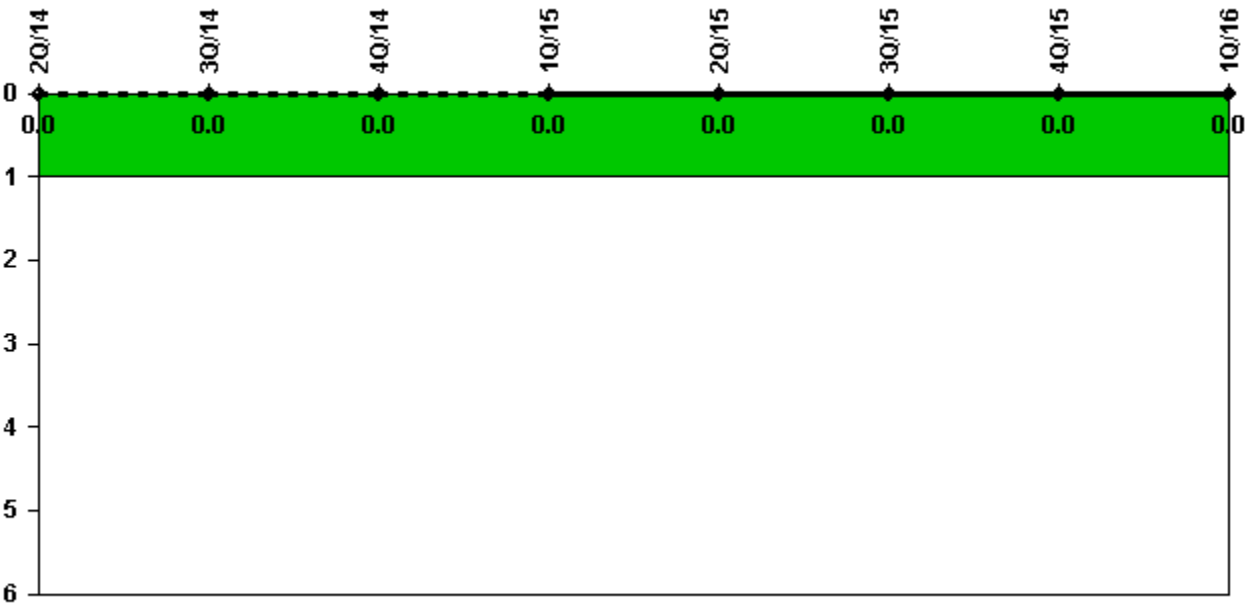
Notes

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	1.0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2159.0	2184.0	2208.0	2154.3	1584.0
Indicator value	0	0.9	0.9	0.8	0.8	0	0	0

Licensee Comments:

3Q/14: Unplanned power change on September 18, 2014, due to Technical Specification required power change as a result of misaligned control rod/shutdown bank B during testing. Power reduced to approximately 70%.

Unplanned Scrams with Complications



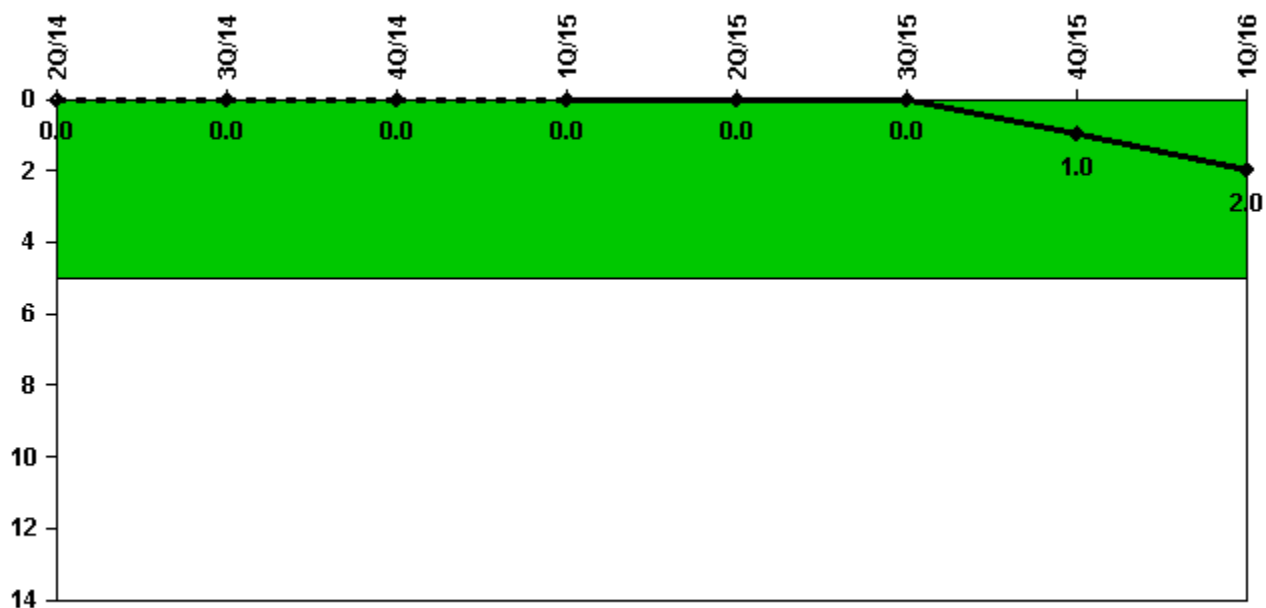
Thresholds: White > 1.0

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

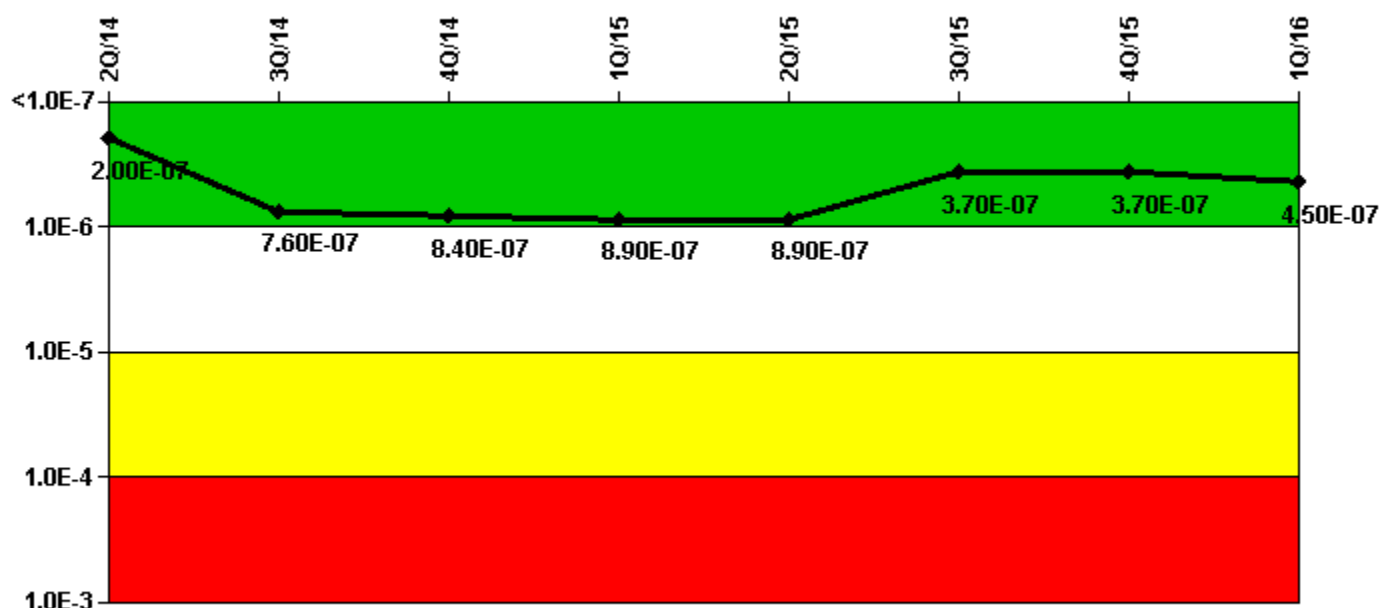
Safety System Functional Failures (PWR)	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Safety System Functional Failures	0	0	0	0	0	0	1	1
Indicator value	0	0	0	0	0	0	1	2

Licensee Comments:

1Q/16: LER-2015-004 reported on February 18, 2016, a SSFF due to an inoperable containment caused by a flawed SW pipe elbow on the 21 FCU motor cooler return pipe.

4Q/15: LER-2015-002 reported a SSFF on October 19, 2015, due to fuses for the Residual Heat Removal Heat Exchanger outlet valves that would not remain operable under degraded voltage conditions.

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (ΔCDF)	3.56E-07	3.65E-07	4.23E-07	3.76E-07	3.77E-07	8.74E-08	8.64E-08	1.02E-07
URI (ΔCDF)	-1.59E-07	3.93E-07	4.15E-07	5.12E-07	5.14E-07	2.83E-07	2.83E-07	3.53E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.00E-07	7.60E-07	8.40E-07	8.90E-07	8.90E-07	3.70E-07	3.70E-07	4.50E-07

Licensee Comments:

1Q/16: Load failure of 23 EDG recorded on 3/7/16 report # 321856 due to a degraded automatic voltage regulator.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

2Q/15: Risk Cap Invoked.

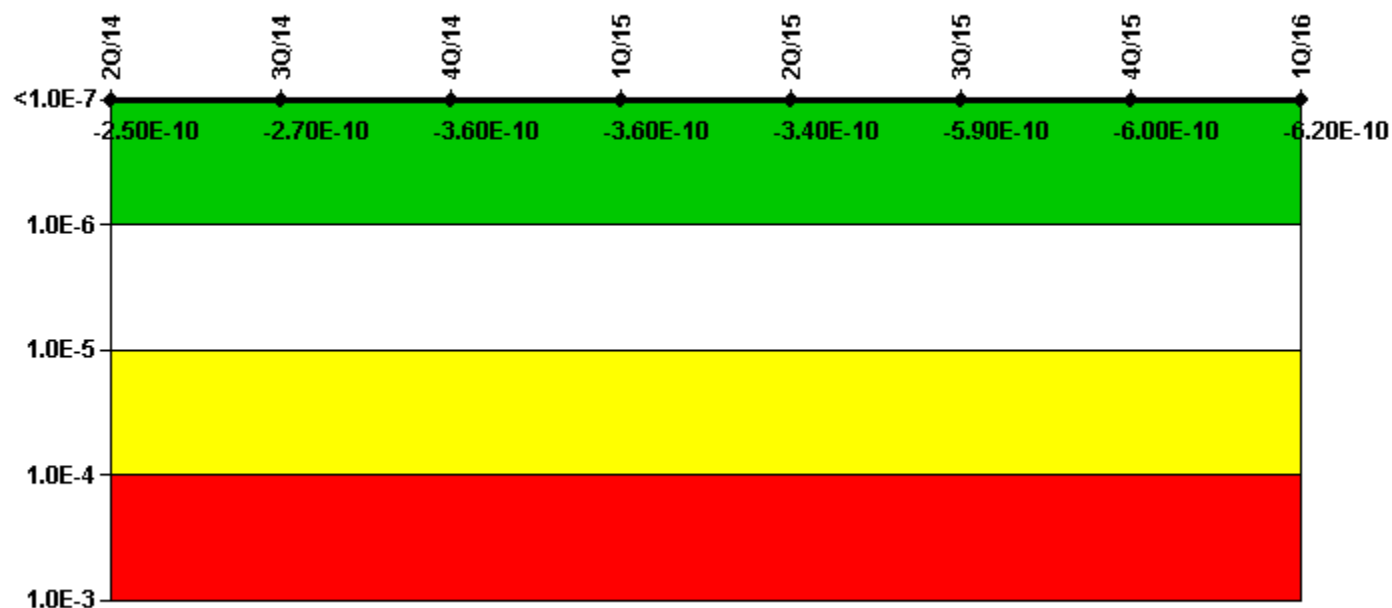
1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked. On September 12, 2014, a lube oil leak was discovered on the vitaulic coupling of the

23 EDG during post maintenance testing. EDG secured. MSPI Run Failure.

Mitigating Systems Performance Index, High Pressure Injection System



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

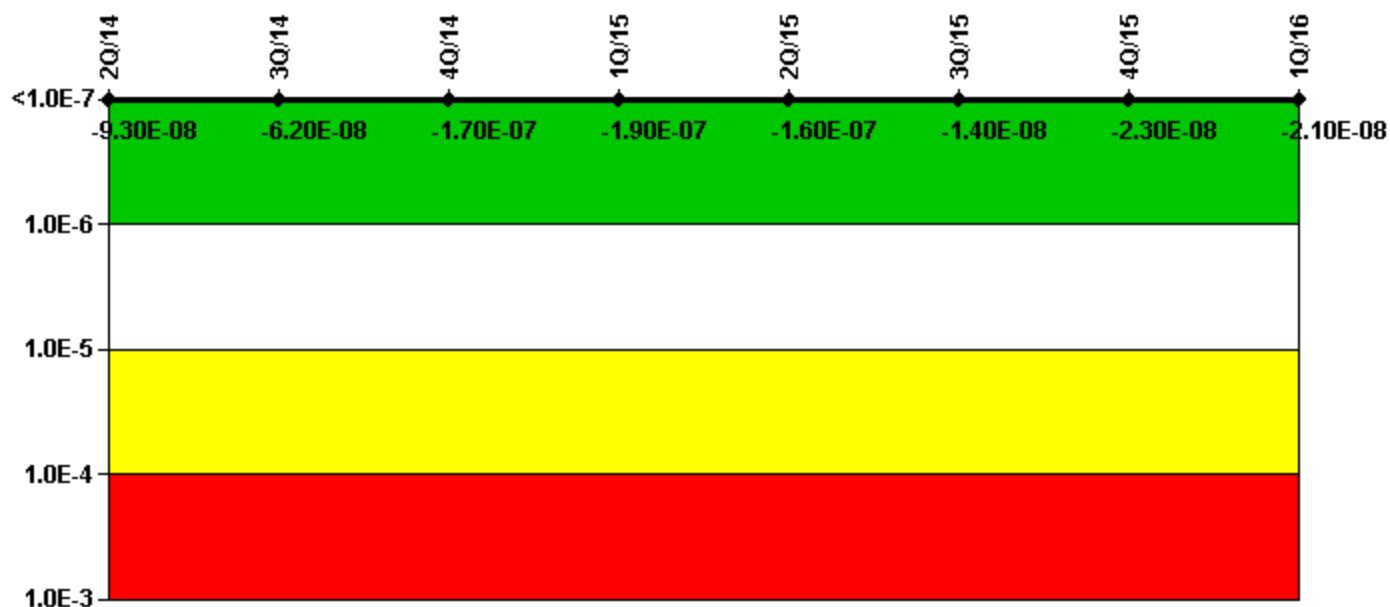
Notes

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)	5.21E-11	5.05E-11	-3.50E-11	-3.95E-11	-2.54E-11	-1.41E-10	-1.51E-10	-1.46E-10
URI (Δ CDF)	-3.05E-10	-3.19E-10	-3.27E-10	-3.18E-10	-3.11E-10	-4.51E-10	-4.53E-10	-4.75E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-10	-2.70E-10	-3.60E-10	-3.60E-10	-3.40E-10	-5.90E-10	-6.00E-10	-6.20E-10

Licensee Comments:

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Heat Removal System



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

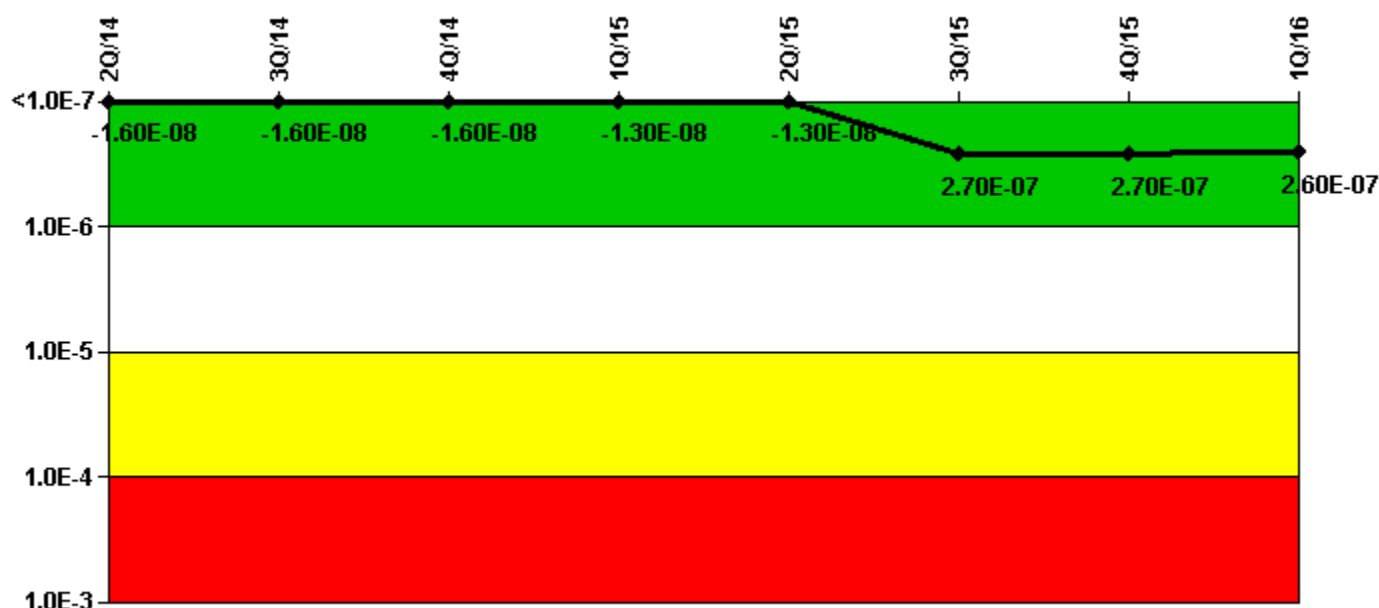
Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	-2.72E-08	3.81E-09	2.10E-08	5.35E-10	1.06E-08	1.40E-08	6.84E-09	1.05E-08
URI (Δ CDF)	-6.60E-08	-6.59E-08	-1.93E-07	-1.86E-07	-1.71E-07	-2.83E-08	-2.94E-08	-3.18E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.30E-08	-6.20E-08	-1.70E-07	-1.90E-07	-1.60E-07	-1.40E-08	-2.30E-08	-2.10E-08

Licensee Comments:

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

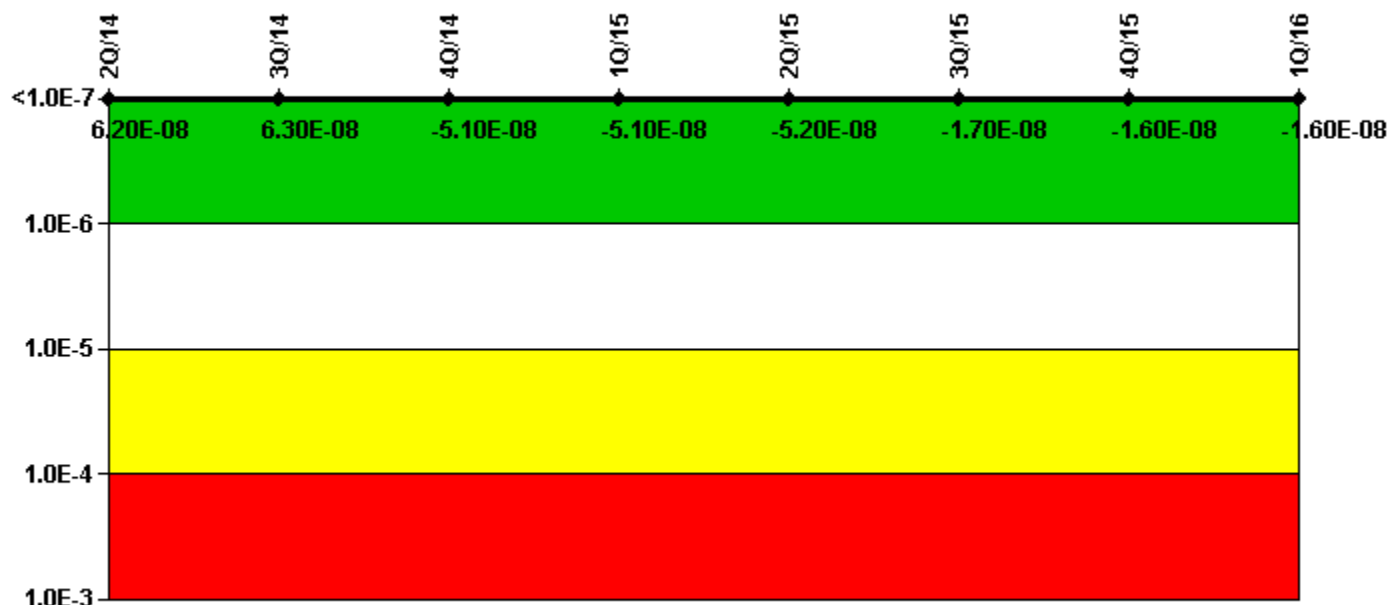
Mitigating Systems Performance Index, Residual Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	-3.97E-09	-3.97E-09	-4.19E-09	-4.35E-09	-4.36E-09	-3.99E-09	-4.26E-09	-4.13E-09
URI (Δ CDF)	-1.17E-08	-1.17E-08	-1.17E-08	-8.35E-09	-8.26E-09	2.70E-07	2.70E-07	2.67E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.60E-08	-1.30E-08	-1.30E-08	2.70E-07	2.70E-07	2.60E-07

Licensee Comments:

3Q/15: The planned unavailability hours changed for the 21 and 22 RHR pump (0.0 hrs to 0.8 hrs) to reflect the final OE that the valves were inoperable as a result of the response to a CBDI inspection question and a final determination that the normally closed 21 and 22 RHR Pumps Heat Exchanger outlet valves (MOV-746 & MOV-747) would not adequately operate under degraded voltage conditions as a result of inadequate fuses. This resulted in both trains of RHR being considered inoperable. LER-2015-002 reported this event as a safety system functional failure. On December 29, 2015, ICES input data for the RHR event was determined to be complete which included a Maintenance Rule functional failure and MSPI safety system functional failure of both RHR Hx outlet valves. The ICES report was completed in ICES and initiated for review by INPO December 29, 2015. This action caused MSPI to be recalculated.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

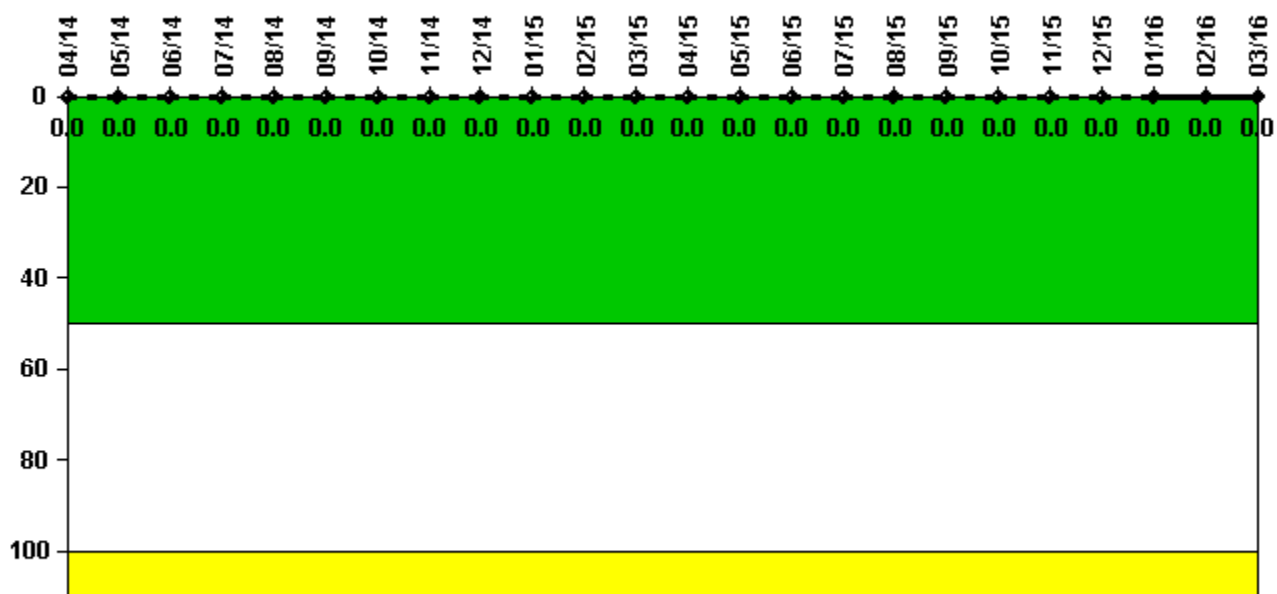
Mitigating Systems Performance Index, Cooling Water Systems	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI (Δ CDF)	-3.28E-09	-3.61E-09	-4.38E-09	-4.67E-09	-5.17E-09	3.42E-09	3.50E-09	3.67E-09
URI (Δ CDF)	6.55E-08	6.66E-08	-4.68E-08	-4.64E-08	-4.64E-08	-2.07E-08	-1.95E-08	-2.02E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.20E-08	6.30E-08	-5.10E-08	-5.10E-08	-5.20E-08	-1.70E-08	-1.60E-08	-1.60E-08

Licensee Comments:

3Q/15: The September 2015 CCWP demands and run hours were revised. 21 CCP demands changed from 0 to 1, run hours changed from 0.0 to 0.58; 22 CCP demands changed from 0 to 1, run hours changed from 720.0 to 719.48; 23 CCP demands changed from 0 to 1; run hours changed from 720.0 to 719.47.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes were made to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Reactor Coolant System Activity



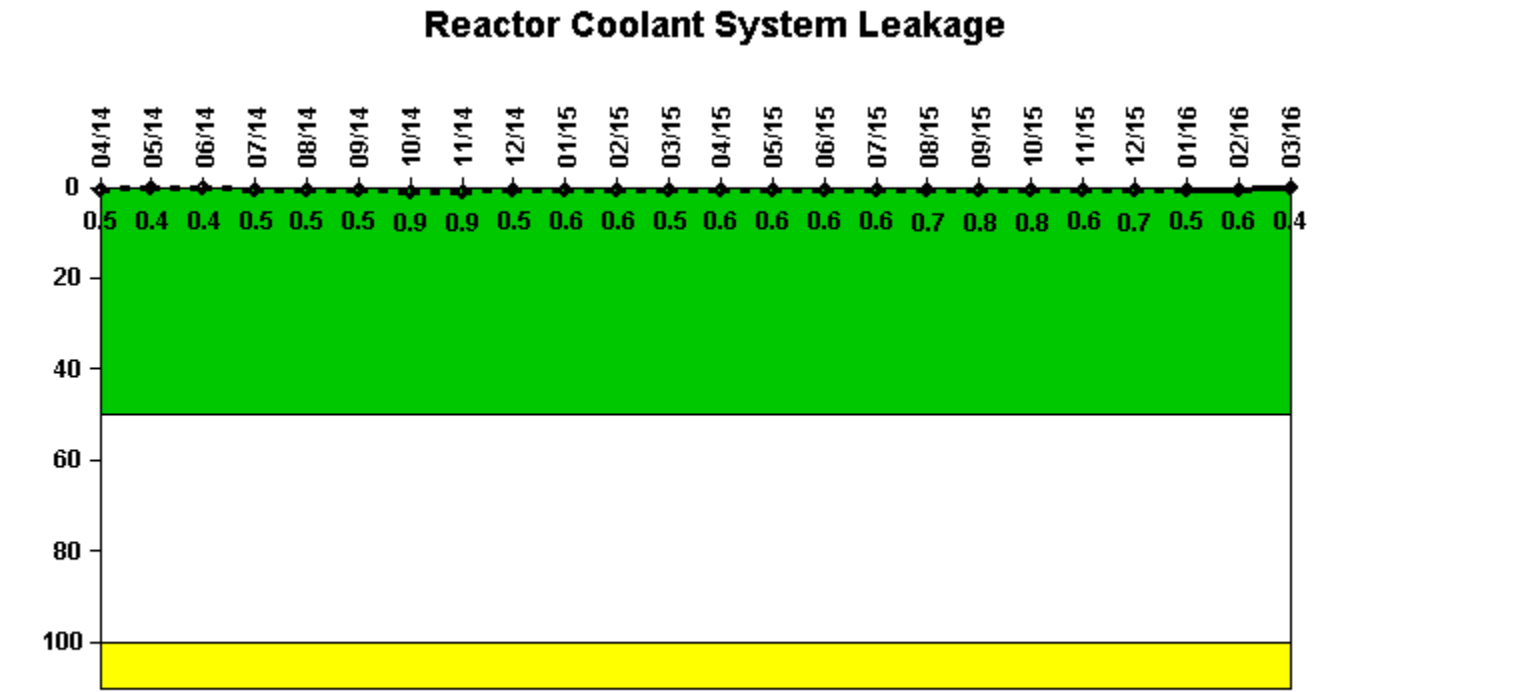
Thresholds: White > 50.0 Yellow > 100.0

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	0.000159	0.000133	0.000165	0.000153	0.000141	0.000148	0.000158	0.000170	0.000175	0.000175	0.000170	0.000195
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum activity	0.000182	0.000179	0.000190	0.000206	0.000202	0.000203	0.000216	0.000260	0.000223	0.000271	0.000245	0.000150
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator												

value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments: none



Thresholds: White > 50.0 Yellow > 100.0

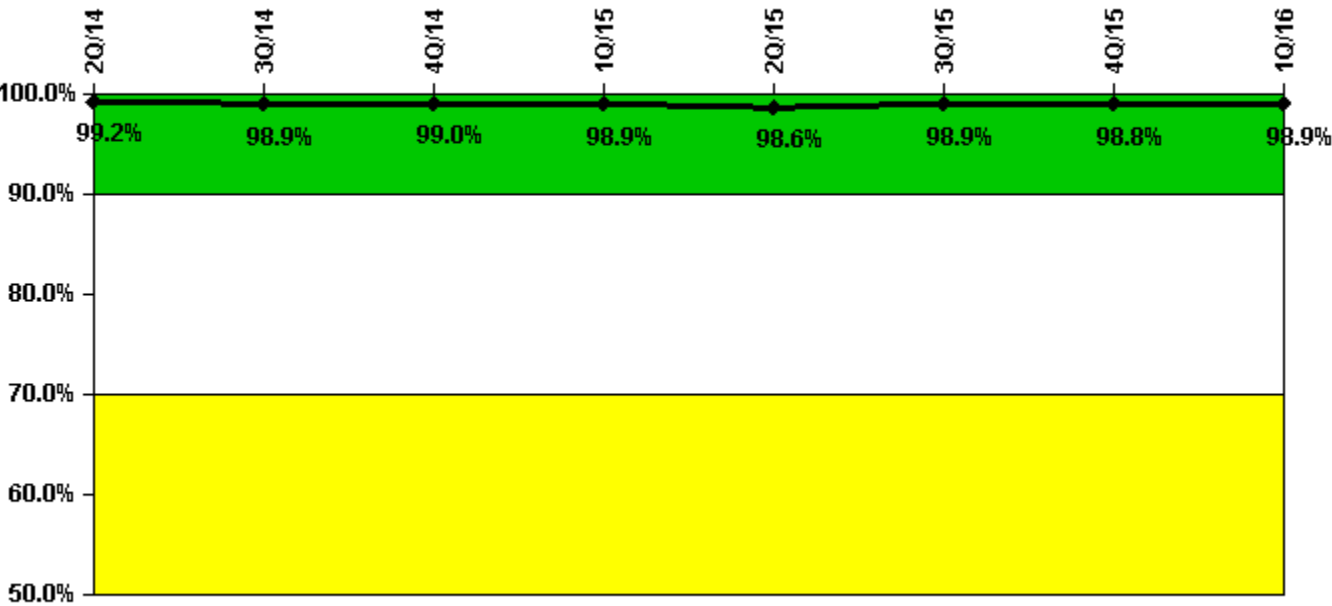
Notes

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	0.050	0.040	0.040	0.050	0.050	0.050	0.090	0.090	0.053	0.060	0.060	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.5	0.4	0.4	0.5	0.5	0.5	0.9	0.9	0.5	0.6	0.6	0.5

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	0.060	0.060	0.060	0.060	0.070	0.080	0.080	0.060	0.070	0.050	0.060	0.040
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.6	0.6	0.6	0.6	0.7	0.8	0.8	0.6	0.7	0.5	0.6	0.4

Licensee Comments: none

Drill/Exercise Performance



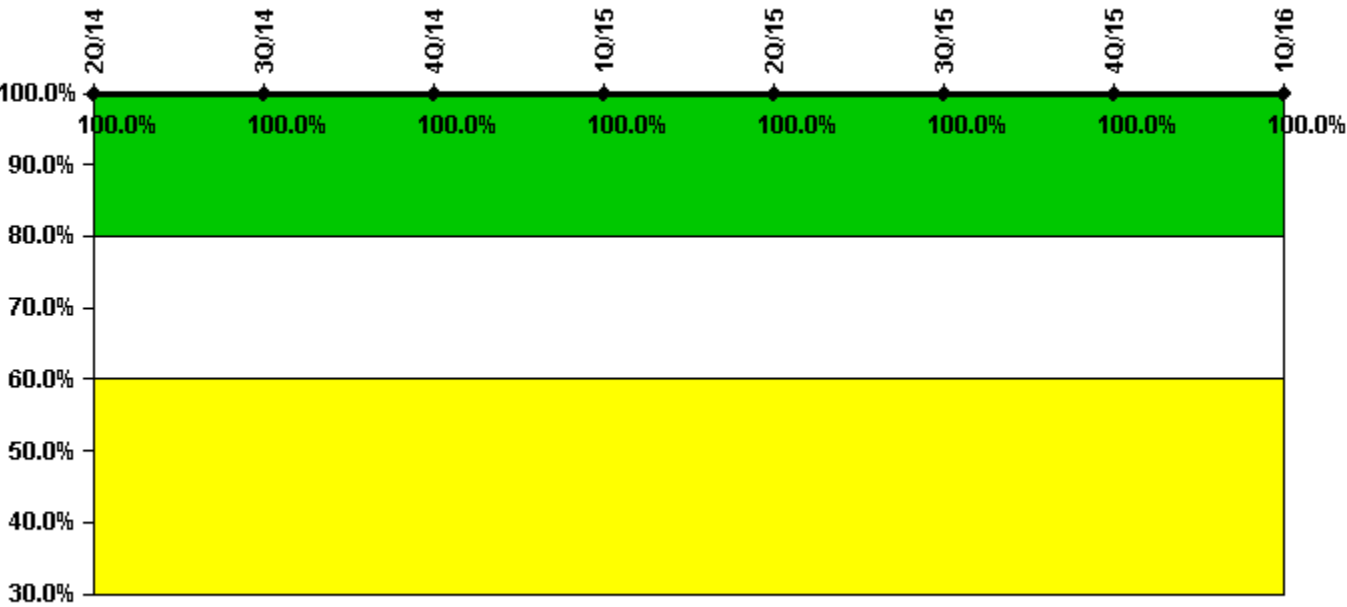
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful opportunities	110.0	200.0	109.0	20.0	71.0	146.0	28.0	26.0
Total opportunities	112.0	203.0	109.0	21.0	72.0	147.0	28.0	26.0
Indicator value	99.2%	98.9%	99.0%	98.9%	98.6%	98.9%	98.8%	98.9%

Licensee Comments: none

ERO Drill Participation



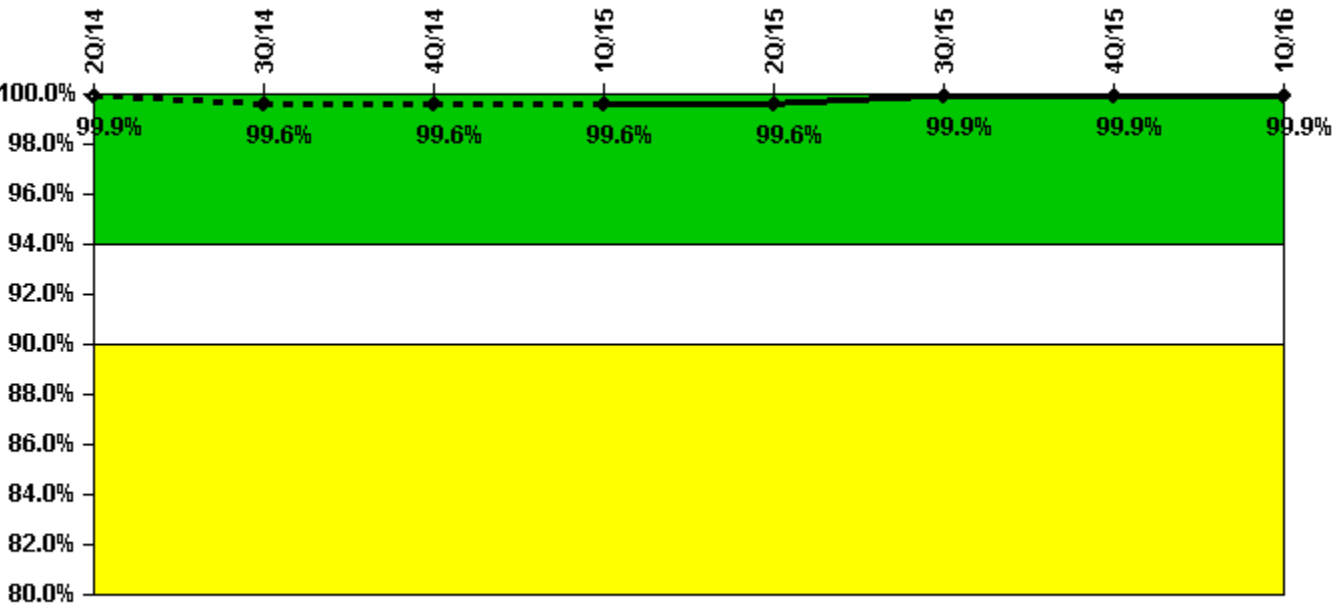
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Participating Key personnel	104.0	100.0	106.0	104.0	104.0	105.0	103.0	103.0
Total Key personnel	104.0	100.0	106.0	104.0	104.0	105.0	103.0	103.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



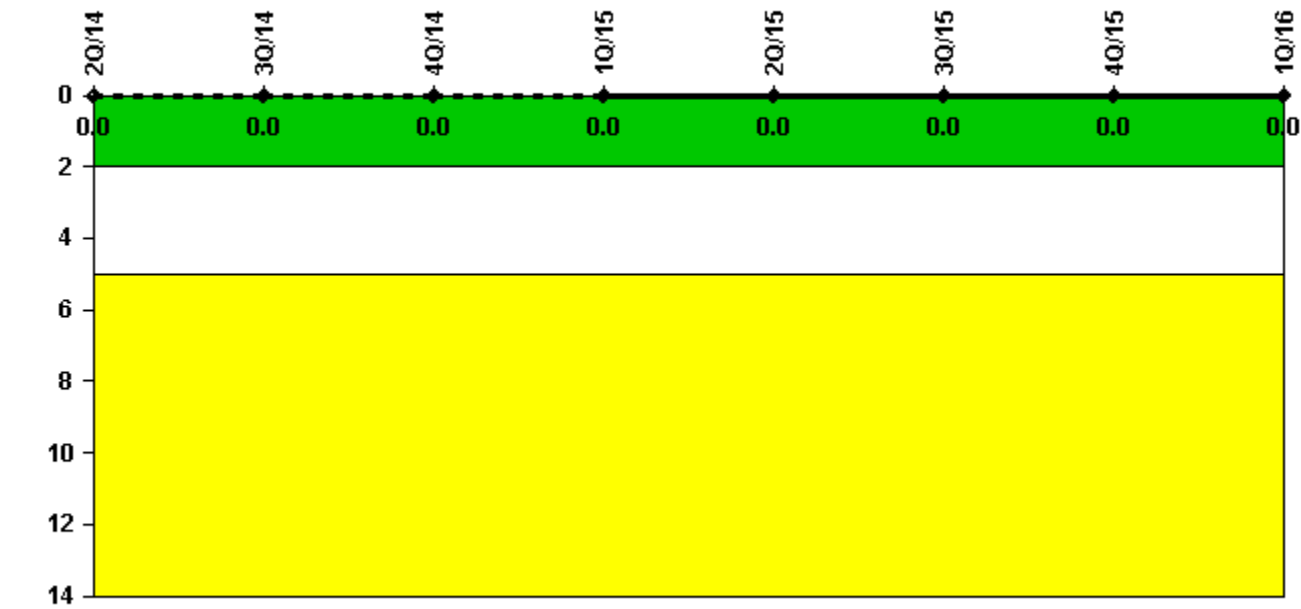
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful siren-tests	1079	1110	1104	1135	917	1105	1046	1188
Total sirens-tests	1081	1126	1104	1135	917	1109	1046	1188
Indicator value	99.9%	99.6%	99.6%	99.6%	99.6%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



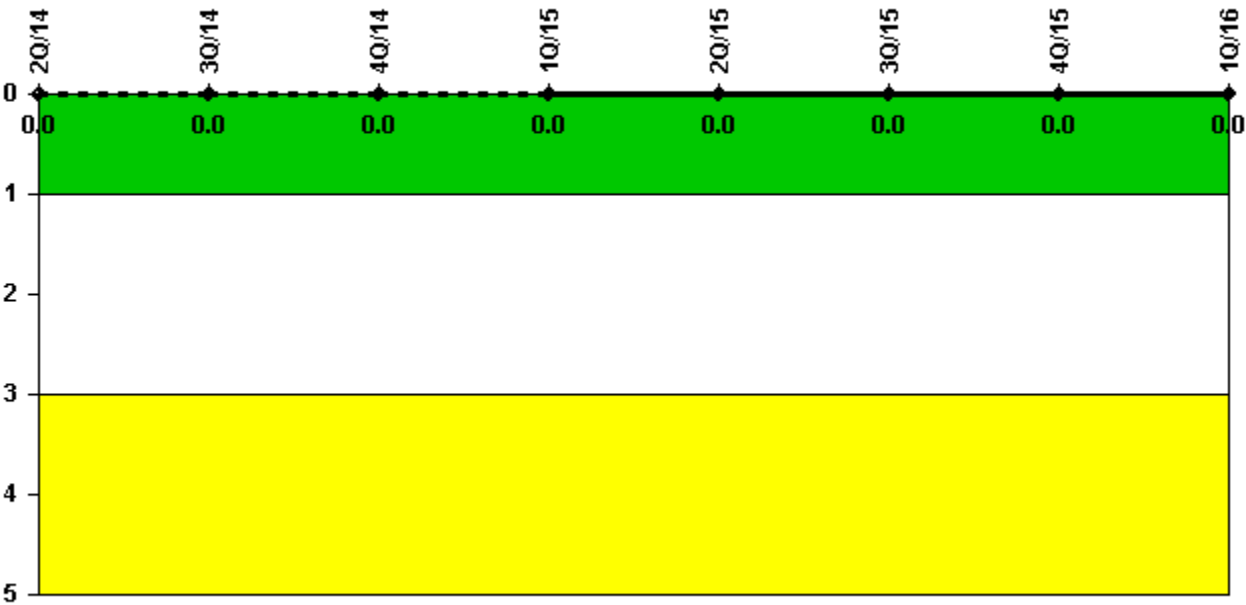
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

Last Modified: April 23, 2016

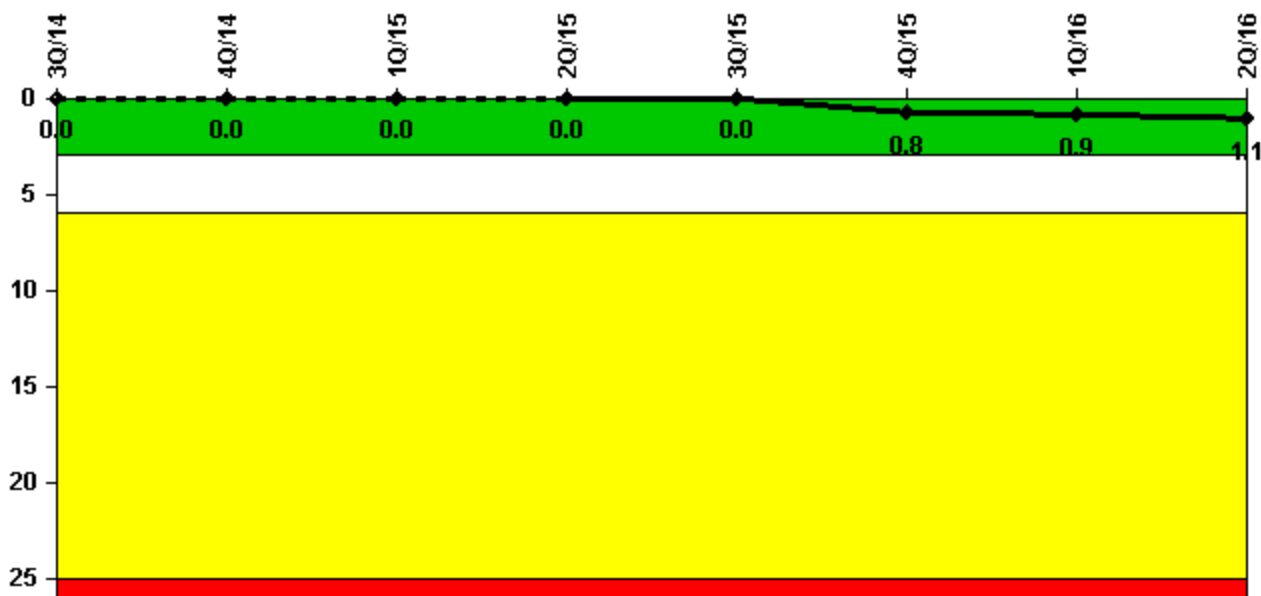
Indian Point 2

2Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

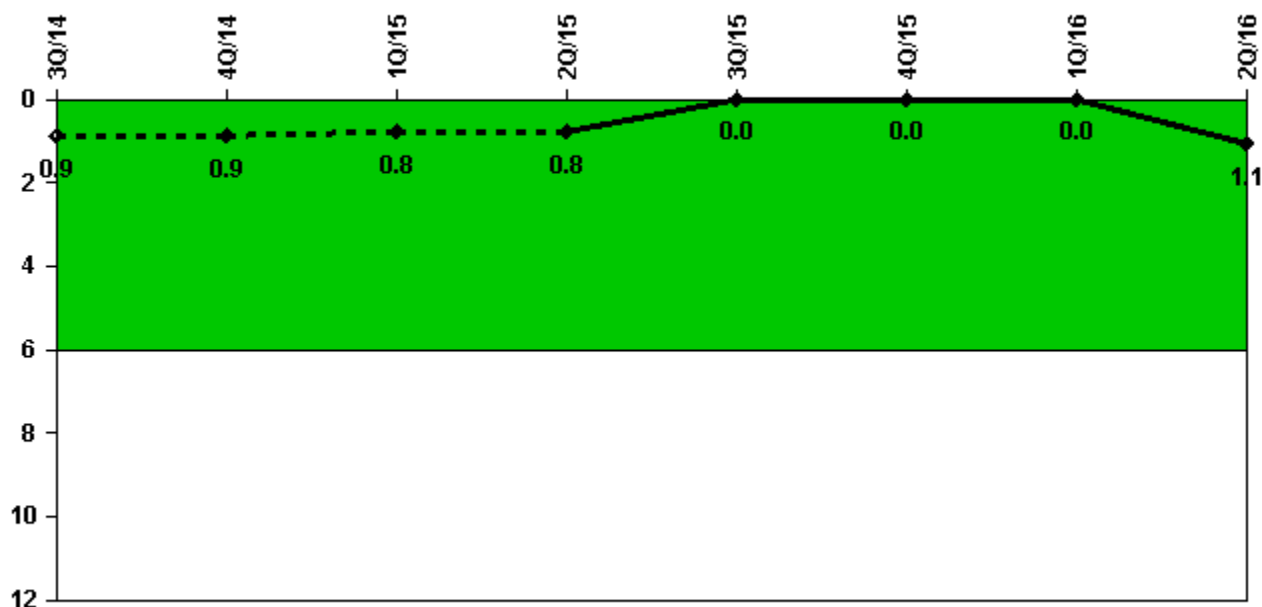
Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	2208.0	2154.3	1584.0	319.8
Indicator value	0	0	0	0	0	0.8	0.9	1.1

Licensee Comments:

4Q/15: On December 5, 2015, a manual reactor trip was initiated due to indications of multiple dropped control rods. Initiating event was a fault of Motor Control Center (MCC) 24-2H that caused the upstream supply breaker to open to clear the fault resulting in a loss of power to the operating backup power supply in Rod Control Cabinet 2BD with a degraded primary power supply. The loss of power to the Control Rod System caused the Control Rod stationary grippers to de-energize and rods inserted into the reactor core.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

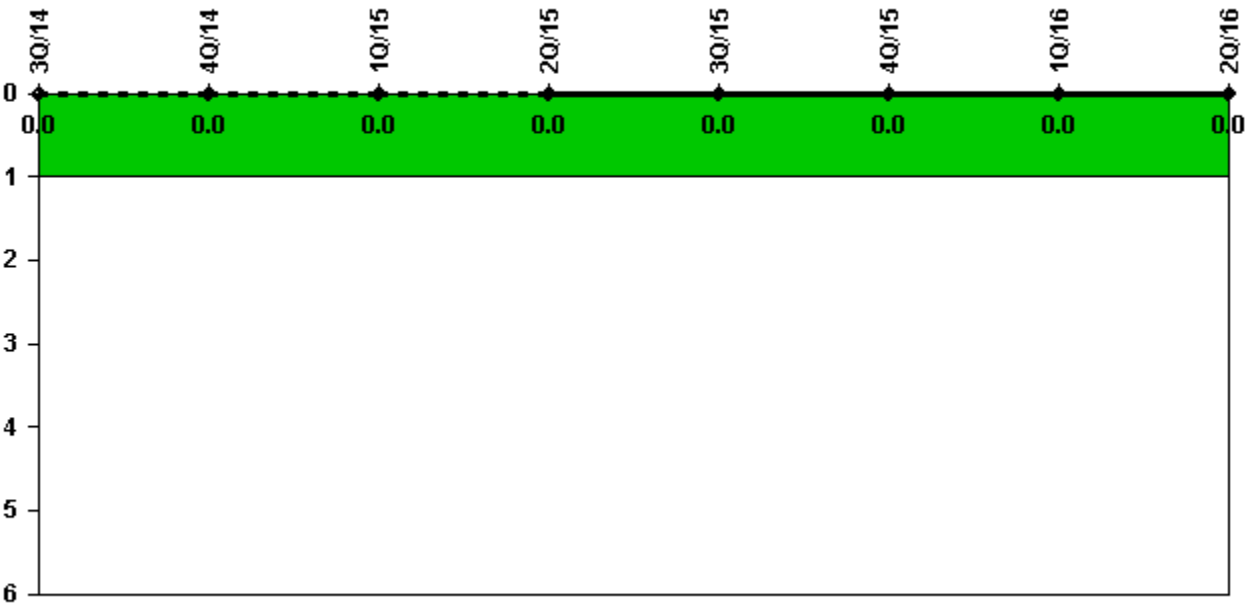
Unplanned Power Changes per 7000 Critical Hrs	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned power changes	1.0	0	0	0	0	0	0	1.0
Critical hours	2208.0	2209.0	2159.0	2184.0	2208.0	2154.3	1584.0	319.8
Indicator value	0.9	0.9	0.8	0.8	0	0	0	1.1

Licensee Comments:

2Q/16: On June 24, 2016, actions were initiated to commence reactor shutdown to comply the Technical Specification LCO 3.7.7 in order to repair a leaking weld on the 20 inch Service Water pipe to nozzle weld on the 21 Component Cooling Water Heat Exchanger. Entered Mode 3 at 07:59 hours, after normal plant shutdown and reactor trip per normal shutdown procedure 2-POP-3.1 (Plant Shutdown From 45% Power).

3Q/14: Unplanned power change on September 18, 2014, due to Technical Specification required power change as a result of misaligned control rod/shutdown bank B during testing. Power reduced to approximately 70%.

Unplanned Scrams with Complications



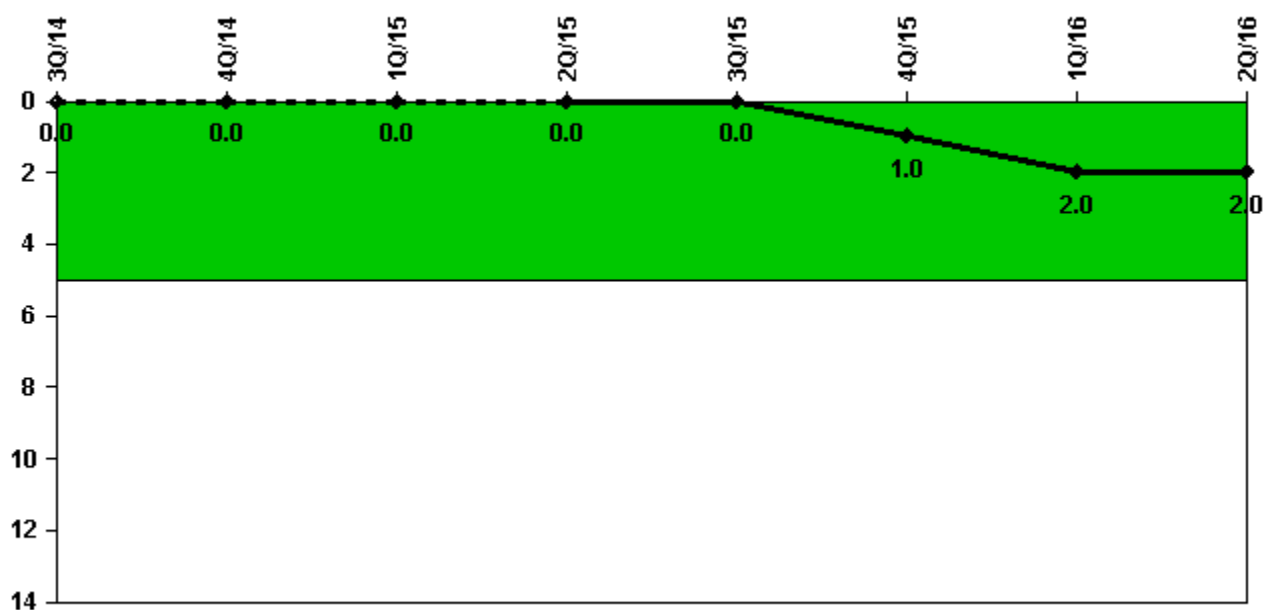
Thresholds: White > 1.0

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

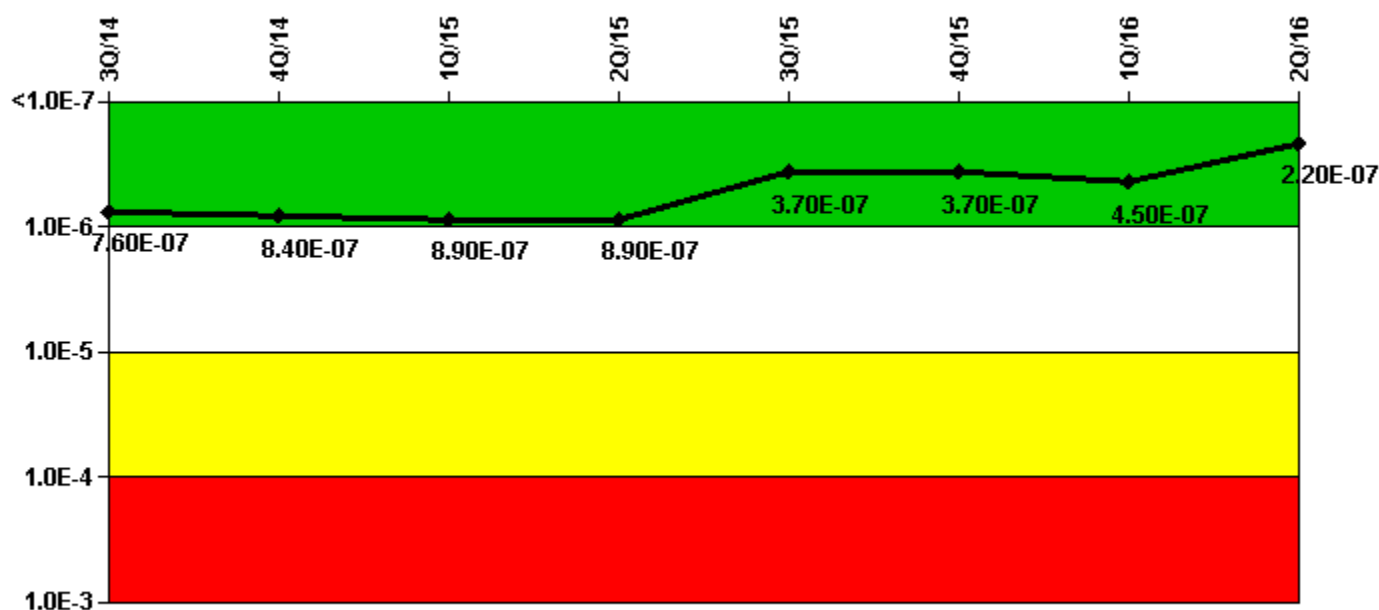
Safety System Functional Failures (PWR)	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Safety System Functional Failures	0	0	0	0	0	1	1	0
Indicator value	0	0	0	0	0	1	2	2

Licensee Comments:

1Q/16: LER-2015-004 reported on February 18, 2016, a SSFF due to an inoperable containment caused by a flawed SW pipe elbow on the 21 FCU motor cooler return pipe.

4Q/15: LER-2015-002 reported a SSFF on October 19, 2015, due to fuses for the Residual Heat Removal Heat Exchanger outlet valves that would not remain operable under degraded voltage conditions.

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	3.65E-07	4.23E-07	3.76E-07	3.77E-07	8.74E-08	8.64E-08	1.02E-07	8.06E-08
URI (Δ CDF)	3.93E-07	4.15E-07	5.12E-07	5.14E-07	2.83E-07	2.83E-07	3.53E-07	1.36E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.60E-07	8.40E-07	8.90E-07	8.90E-07	3.70E-07	3.70E-07	4.50E-07	2.20E-07

Licensee Comments:

1Q/16: Load failure of 23 EDG recorded on 3/7/16 report # 321856 due to a degraded automatic voltage regulator.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

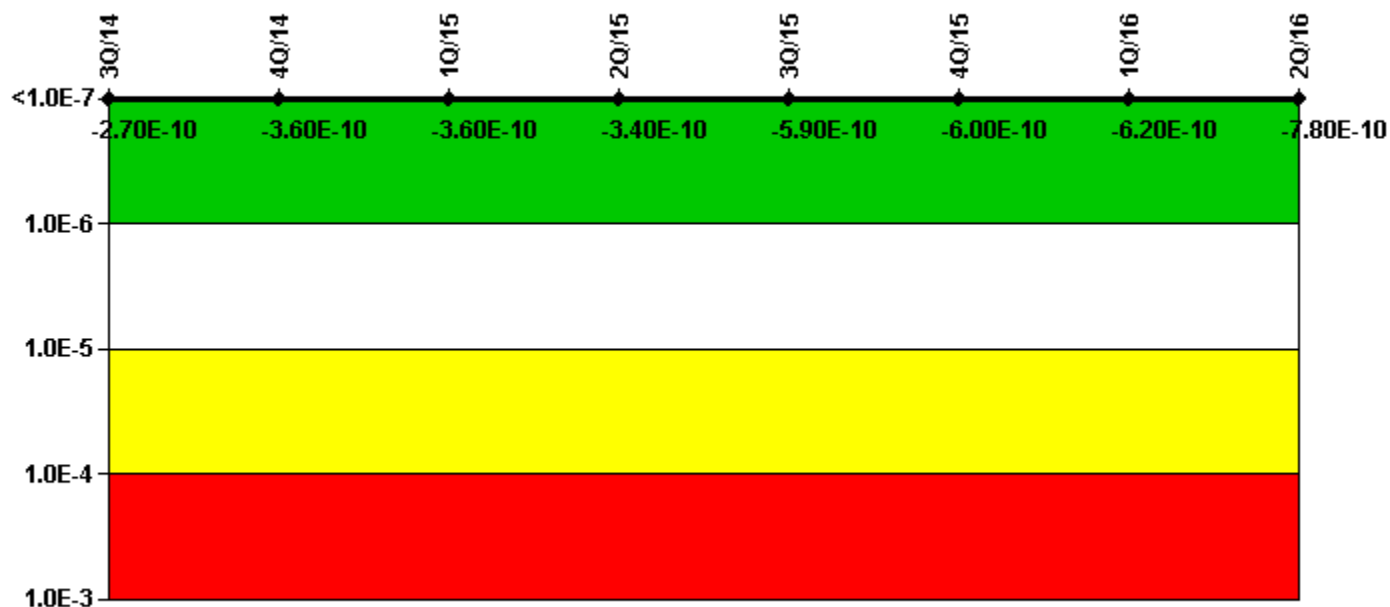
2Q/15: Risk Cap Invoked.

1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

3Q/14: Risk Cap Invoked. On September 12, 2014, a lube oil leak was discovered on the vitaulic coupling of the 23 EDG during post maintenance testing. EDG secured. MSPI Run Failure.

Mitigating Systems Performance Index, High Pressure Injection System



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

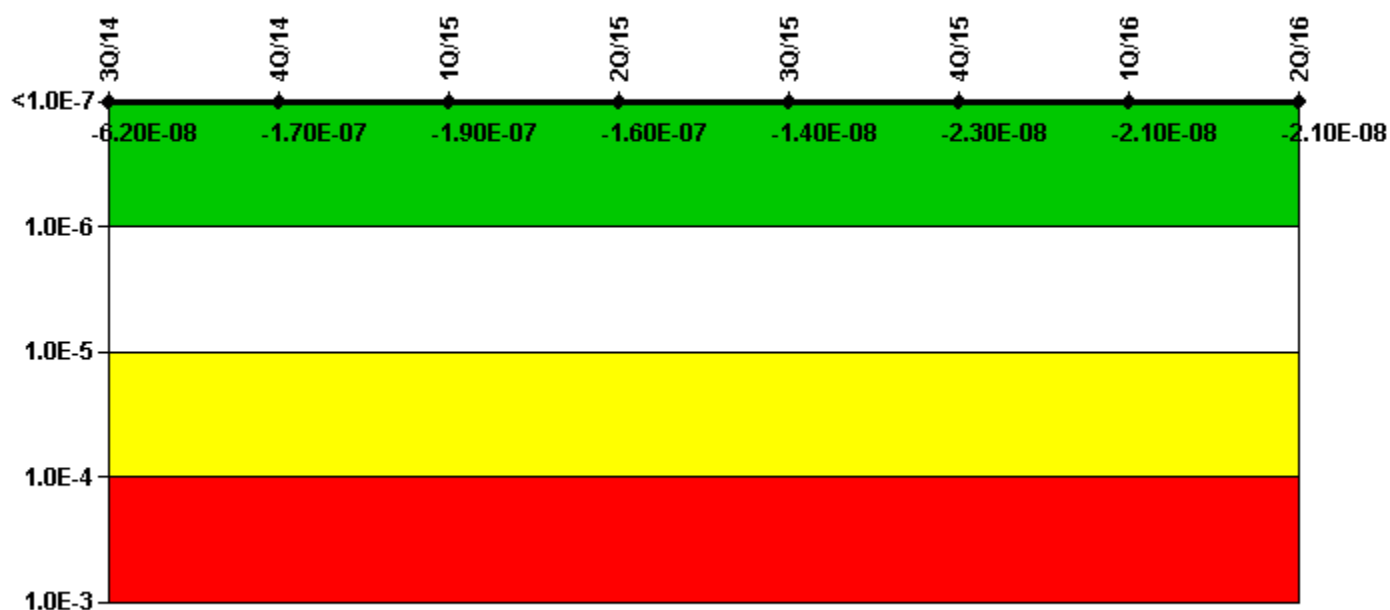
Notes

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)	5.05E-11	-3.50E-11	-3.95E-11	-2.54E-11	-1.41E-10	-1.51E-10	-1.46E-10	-3.14E-10
URI (Δ CDF)	-3.19E-10	-3.27E-10	-3.18E-10	-3.11E-10	-4.51E-10	-4.53E-10	-4.75E-10	-4.69E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.70E-10	-3.60E-10	-3.60E-10	-3.40E-10	-5.90E-10	-6.00E-10	-6.20E-10	-7.80E-10

Licensee Comments:

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Heat Removal System



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

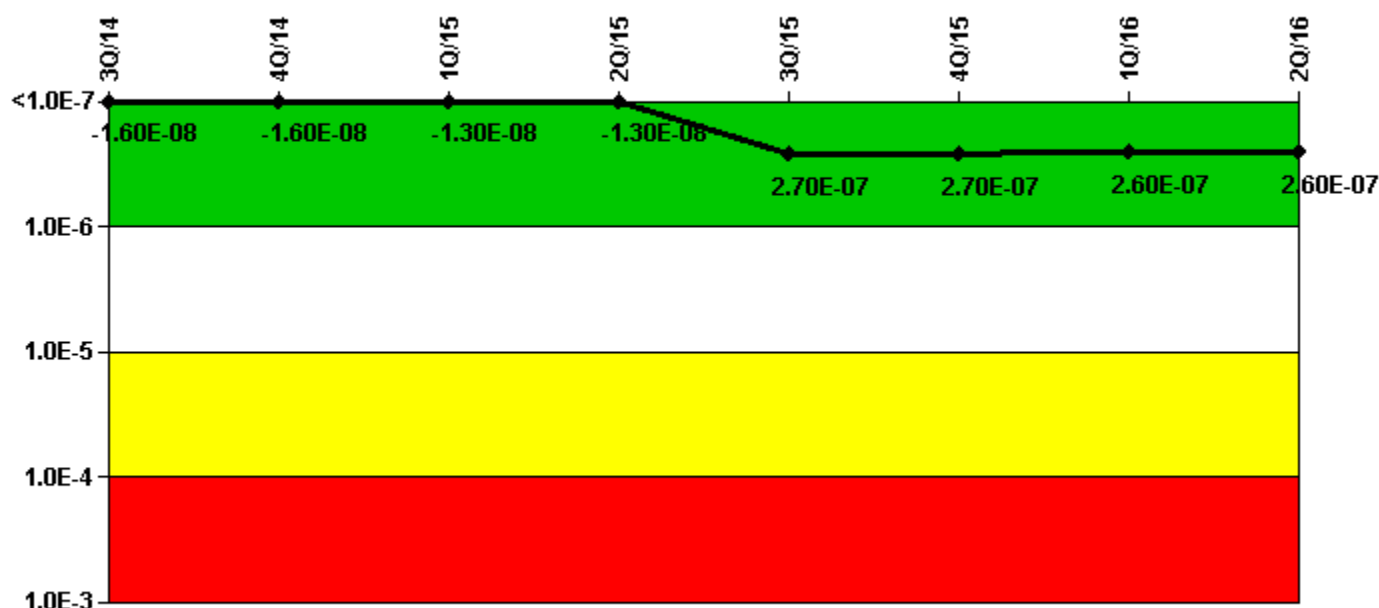
Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	3.81E-09	2.10E-08	5.35E-10	1.06E-08	1.40E-08	6.84E-09	1.05E-08	1.24E-08
URI (Δ CDF)	-6.59E-08	-1.93E-07	-1.86E-07	-1.71E-07	-2.83E-08	-2.94E-08	-3.18E-08	-3.33E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.20E-08	-1.70E-07	-1.90E-07	-1.60E-07	-1.40E-08	-2.30E-08	-2.10E-08	-2.10E-08

Licensee Comments:

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

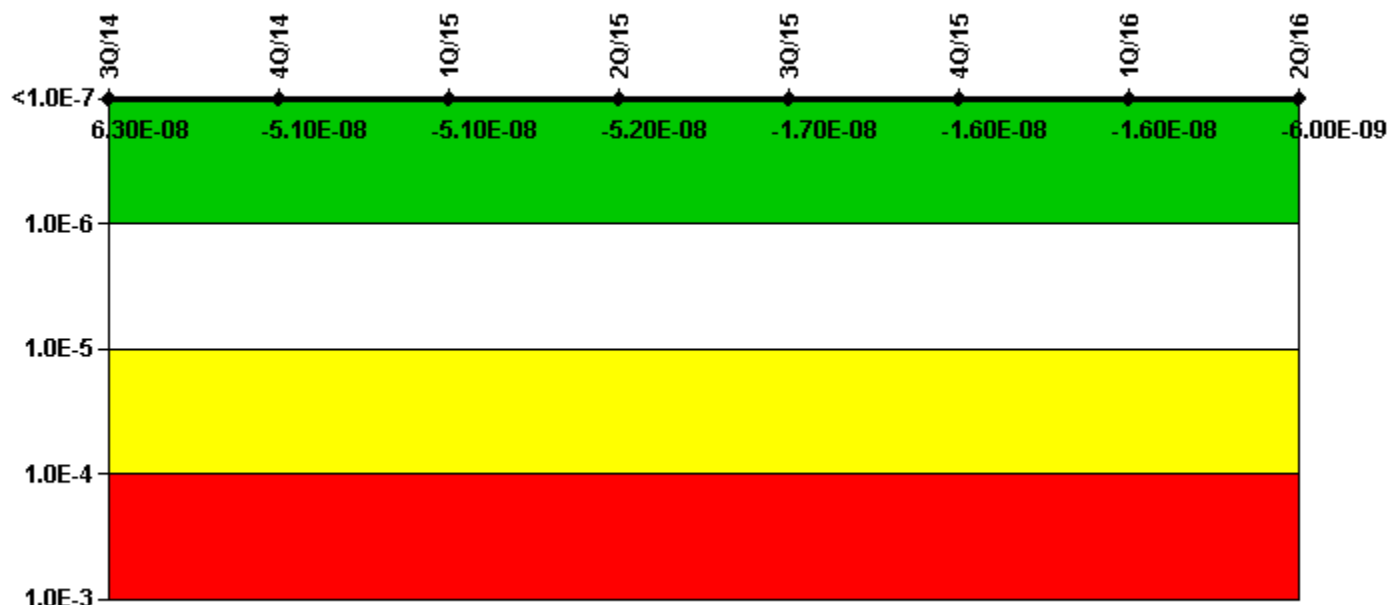
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (Δ CDF)	-3.97E-09	-4.19E-09	-4.35E-09	-4.36E-09	-3.99E-09	-4.26E-09	-4.13E-09	-8.89E-09
URI (Δ CDF)	-1.17E-08	-1.17E-08	-8.35E-09	-8.26E-09	2.70E-07	2.70E-07	2.67E-07	2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.30E-08	-1.30E-08	2.70E-07	2.70E-07	2.60E-07	2.60E-07

Licensee Comments:

3Q/15: The planned unavailability hours changed for the 21 and 22 RHR pump (0.0 hrs to 0.8 hrs) to reflect the final OE that the valves were inoperable as a result of the response to a CDBI inspection question and a final determination that the normally closed 21 and 22 RHR Pumps Heat Exchanger outlet valves (MOV-746 & MOV-747) would not adequately operate under degraded voltage conditions as a result of inadequate fuses. This resulted in both trains of RHR being considered inoperable. LER-2015-002 reported this event as a safety system functional failure. On December 29, 2015, ICES input data for the RHR event was determined to be complete which included a Maintenance Rule functional failure and MSPI safety system functional failure of both RHR Hx outlet valves. The ICES report was completed in ICES and initiated for review by INPO December 29, 2015. This action caused MSPI to be recalculated.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

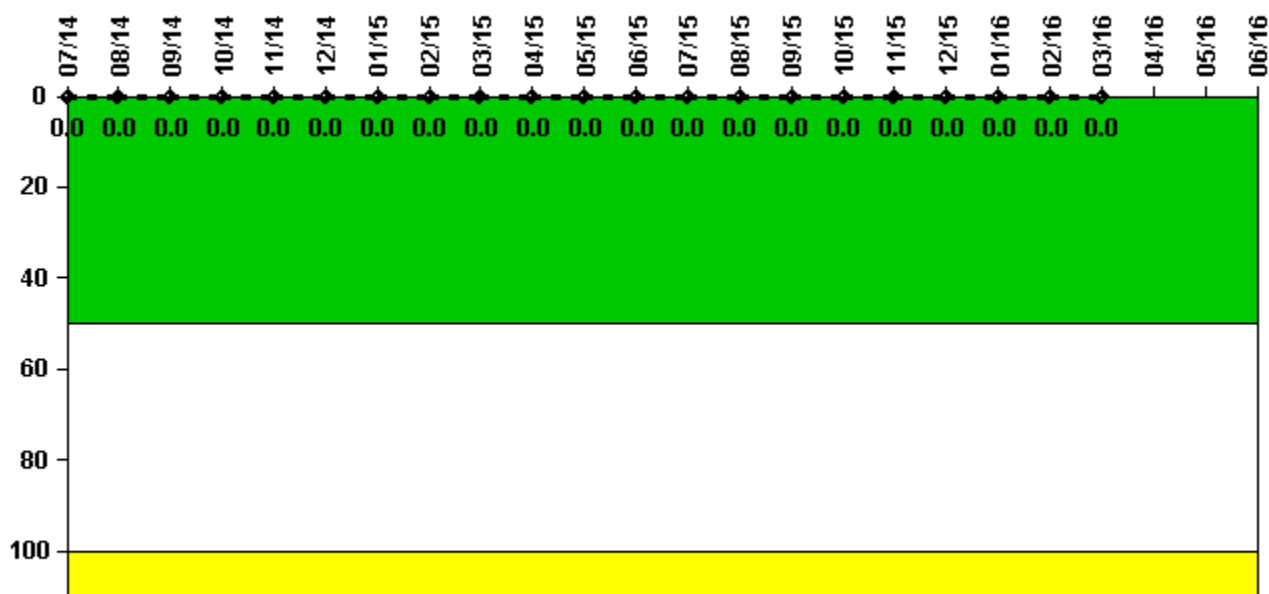
Mitigating Systems Performance Index, Cooling Water Systems	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
UAI (ΔCDF)	-3.61E-09	-4.38E-09	-4.67E-09	-5.17E-09	3.42E-09	3.50E-09	3.67E-09	1.43E-08
URI (ΔCDF)	6.66E-08	-4.68E-08	-4.64E-08	-4.64E-08	-2.07E-08	-1.95E-08	-2.02E-08	-2.03E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.30E-08	-5.10E-08	-5.10E-08	-5.20E-08	-1.70E-08	-1.60E-08	-1.60E-08	-6.00E-09

Licensee Comments:

3Q/15: The September 2015 CCWP demands and run hours were revised. 21 CCP demands changed from 0 to 1, run hours changed from 0.0 to 0.58; 22 CCP demands changed from 0 to 1, run hours changed from 720.0 to 719.48; 23 CCP demands changed from 0 to 1; run hours changed from 720.0 to 719.47.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes were made to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

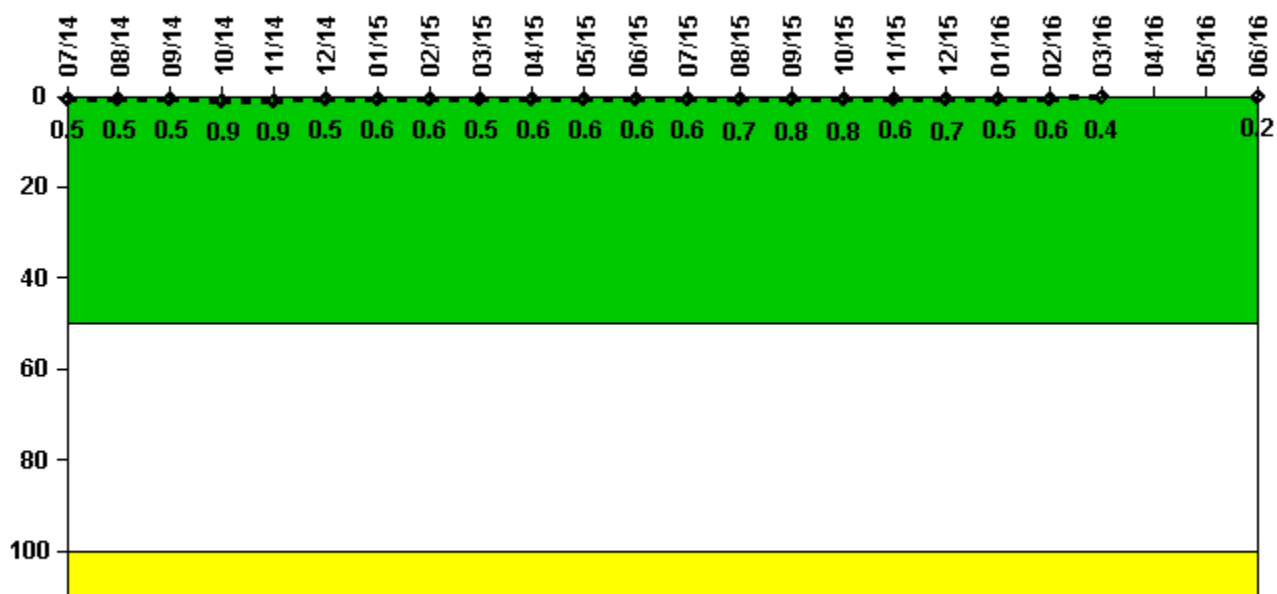
Notes

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	0.000153	0.000141	0.000148	0.000158	0.000170	0.000175	0.000175	0.000170	0.000195	0.000182	0.000179	0.000190
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum activity	0.000206	0.000202	0.000203	0.000216	0.000260	0.000223	0.000271	0.000245	0.000150	N/A	N/A	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	N/A	N/A	N/A

Licensee Comments:

6/16: Plant started refueling outage 3/7/16. No RCS coolant activity calculated.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

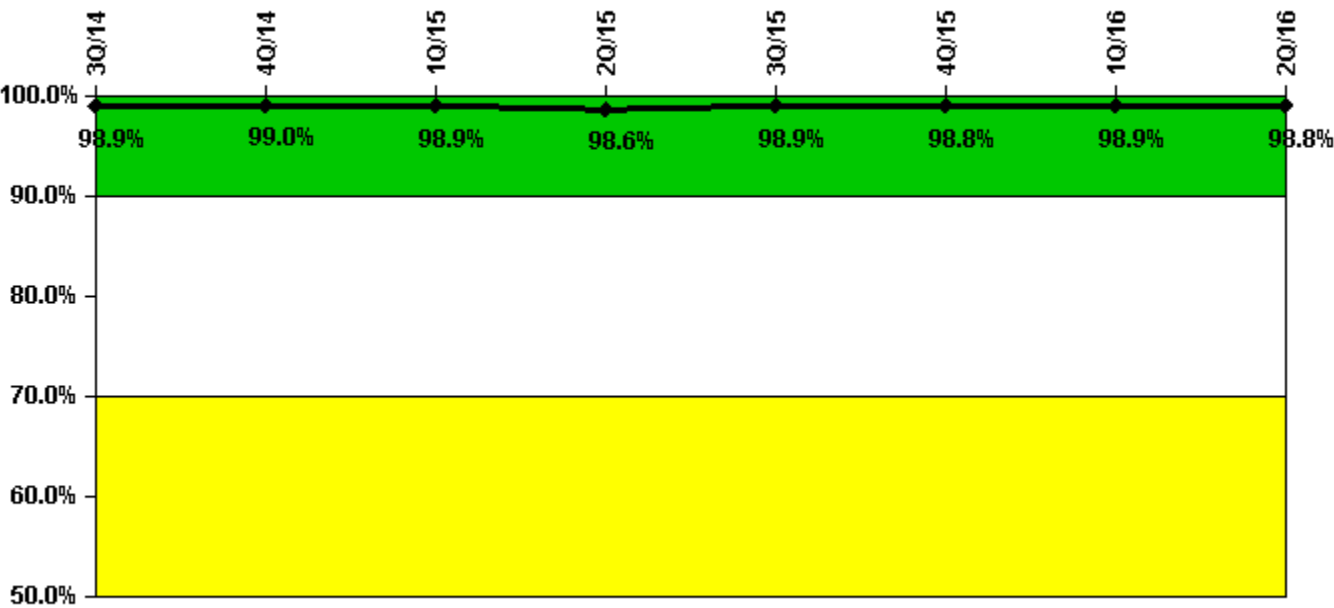
Notes

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	0.050	0.050	0.050	0.090	0.090	0.053	0.060	0.060	0.050	0.060	0.060	0.060
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.5	0.5	0.5	0.9	0.9	0.5	0.6	0.6	0.5	0.6	0.6	0.6
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	0.060	0.070	0.080	0.080	0.060	0.070	0.050	0.060	0.040	N/A	N/A	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	0.6	0.7	0.8	0.8	0.6	0.7	0.5	0.6	0.4	N/A	N/A	0.2

Licensee Comments:

6/16: Plant started refueling outage which was extended due to degraded RV baffle-former bolts. Unit startup was 6/16/16. No RCS Leal Rate was determined during outage due to plant in outage.

Drill/Exercise Performance



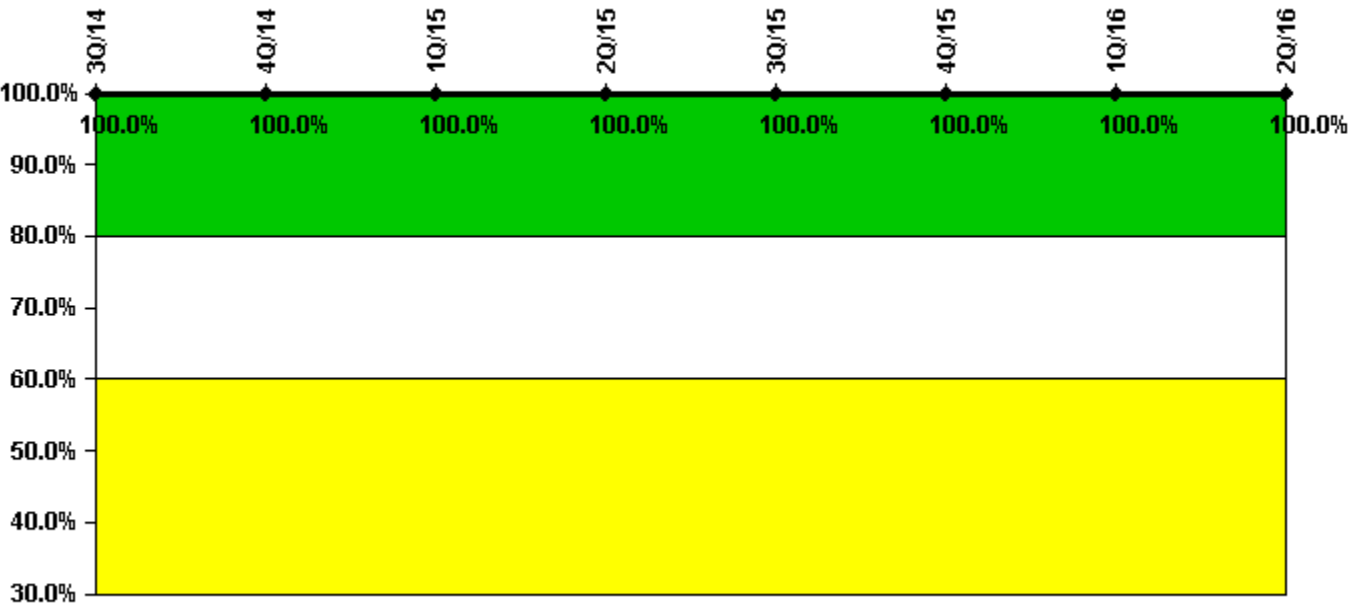
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful opportunities	200.0	109.0	20.0	71.0	146.0	28.0	26.0	62.0
Total opportunities	203.0	109.0	21.0	72.0	147.0	28.0	26.0	64.0
Indicator value	98.9%	99.0%	98.9%	98.6%	98.9%	98.8%	98.9%	98.8%

Licensee Comments: none

ERO Drill Participation



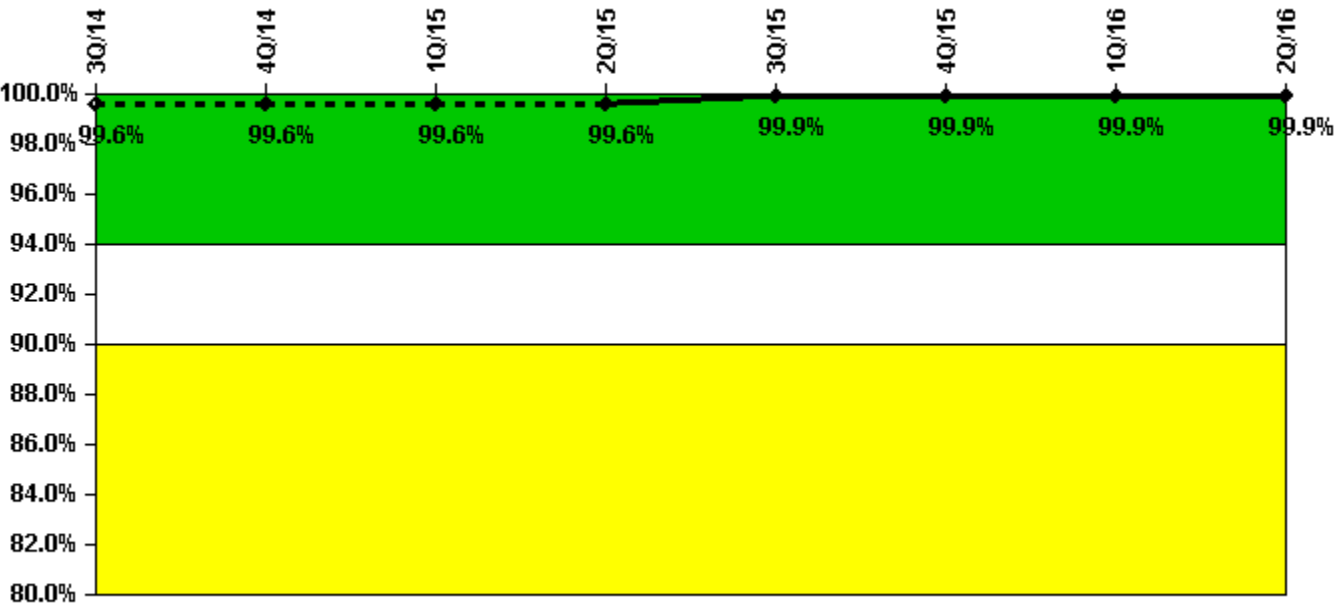
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Participating Key personnel	100.0	106.0	104.0	104.0	105.0	103.0	103.0	101.0
Total Key personnel	100.0	106.0	104.0	104.0	105.0	103.0	103.0	101.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



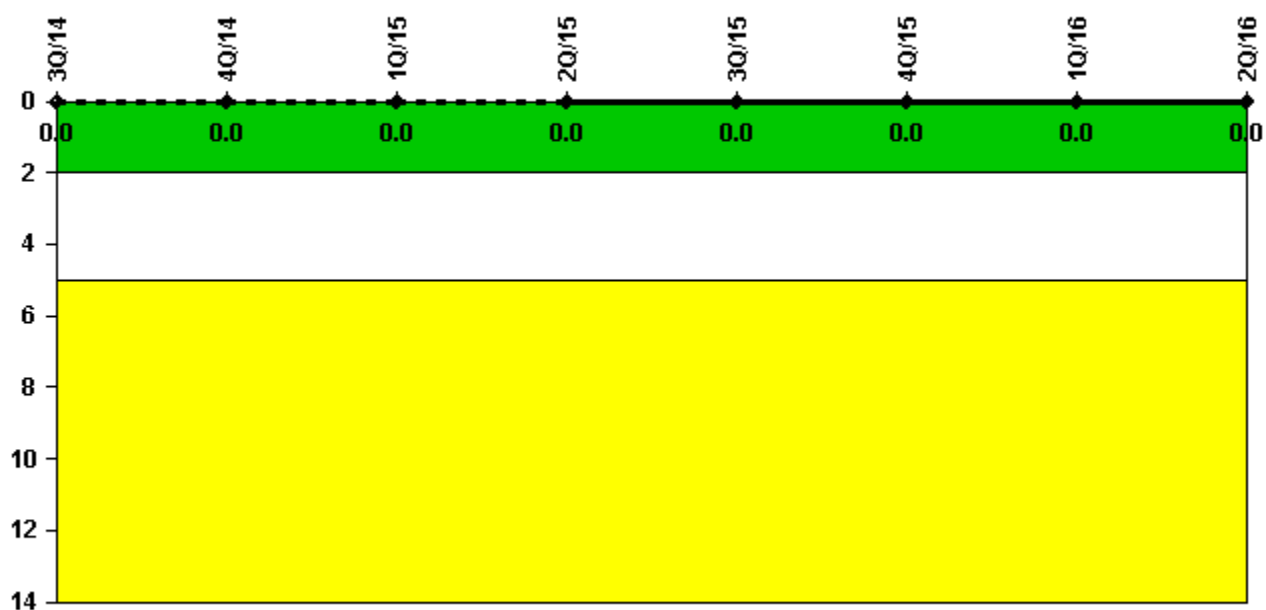
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful siren-tests	1110	1104	1135	917	1105	1046	1188	1050
Total sirens-tests	1126	1104	1135	917	1109	1046	1188	1050
Indicator value	99.6%	99.6%	99.6%	99.6%	99.9%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



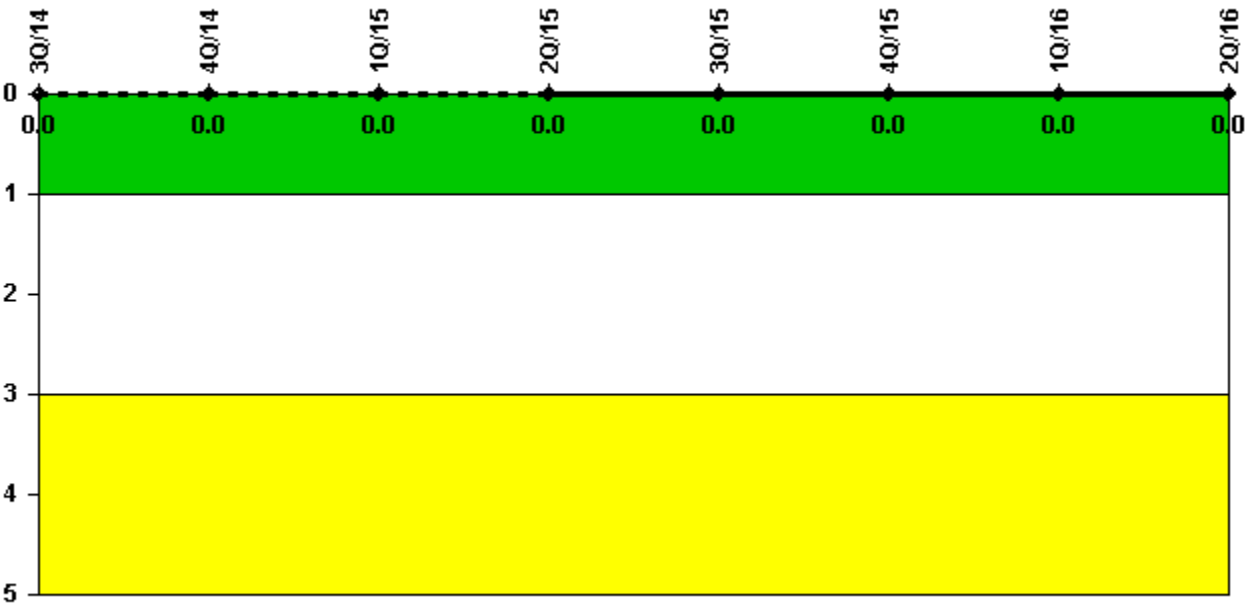
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.



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

Last Modified: July 25, 2016

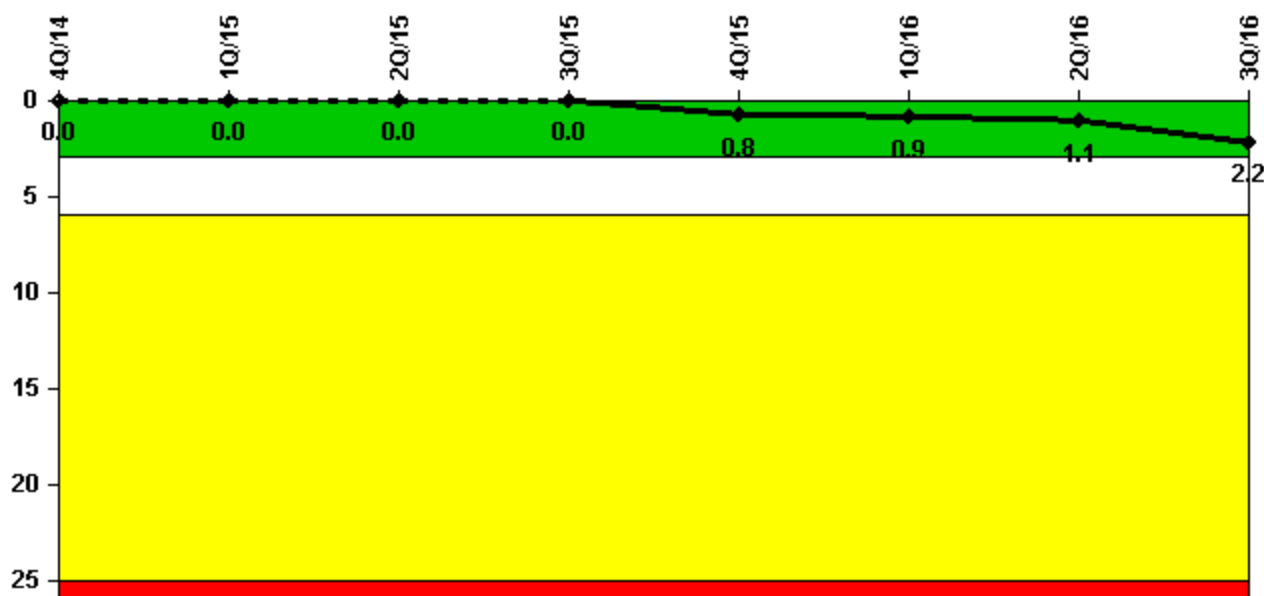
Indian Point 2

3Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned scrams	0	0	0	0	1.0	0	0	1.0
Critical hours	2209.0	2159.0	2184.0	2208.0	2154.3	1584.0	319.8	2189.0
Indicator value	0	0	0	0	0.8	0.9	1.1	2.2

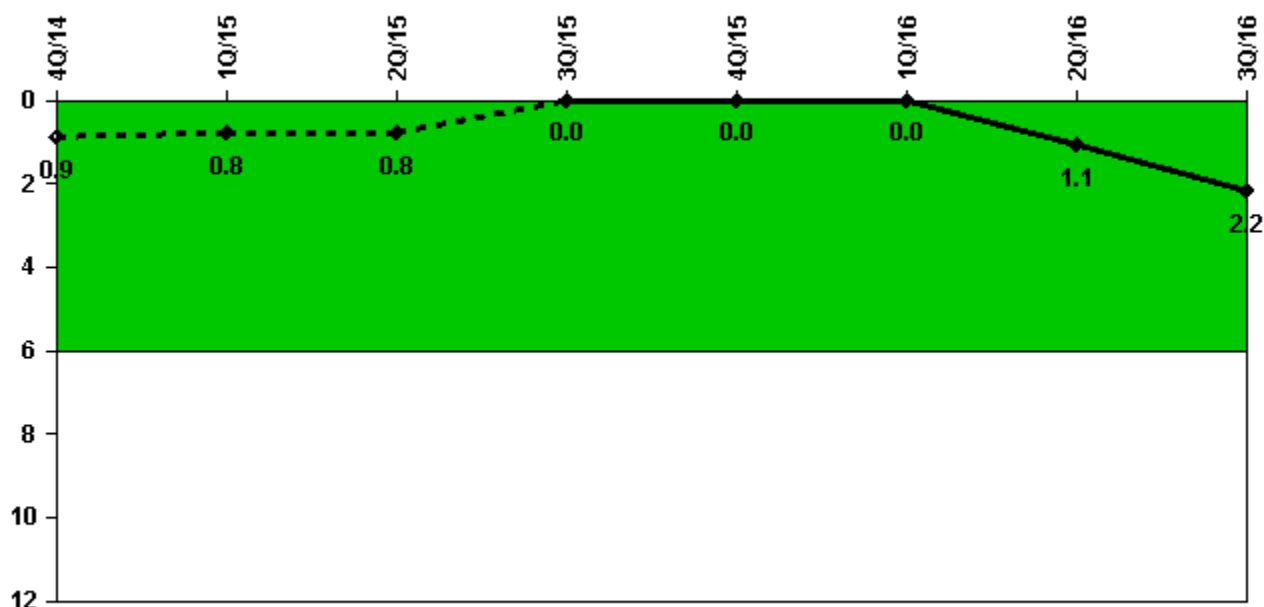
Licensee Comments:

3Q/16: On July 6, 2016, an automatic reactor trip was initiated during preparations for testing the reactor protection system logic train B actuation logic. LER-2016-009 reported this event on September 6, 2016.

4Q/15: On December 5, 2015, a manual reactor trip was initiated due to indications of multiple dropped control rods. Initiating event was a fault of Motor Control Center (MCC) 24-2H that caused the upstream supply breaker to open to clear the fault resulting in a loss of power to the operating backup power supply in Rod Control Cabinet

2BD with a degraded primary power supply. The loss of power to the Control Rod System caused the Control Rod stationary grippers to de-energize and rods inserted into the reactor core.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

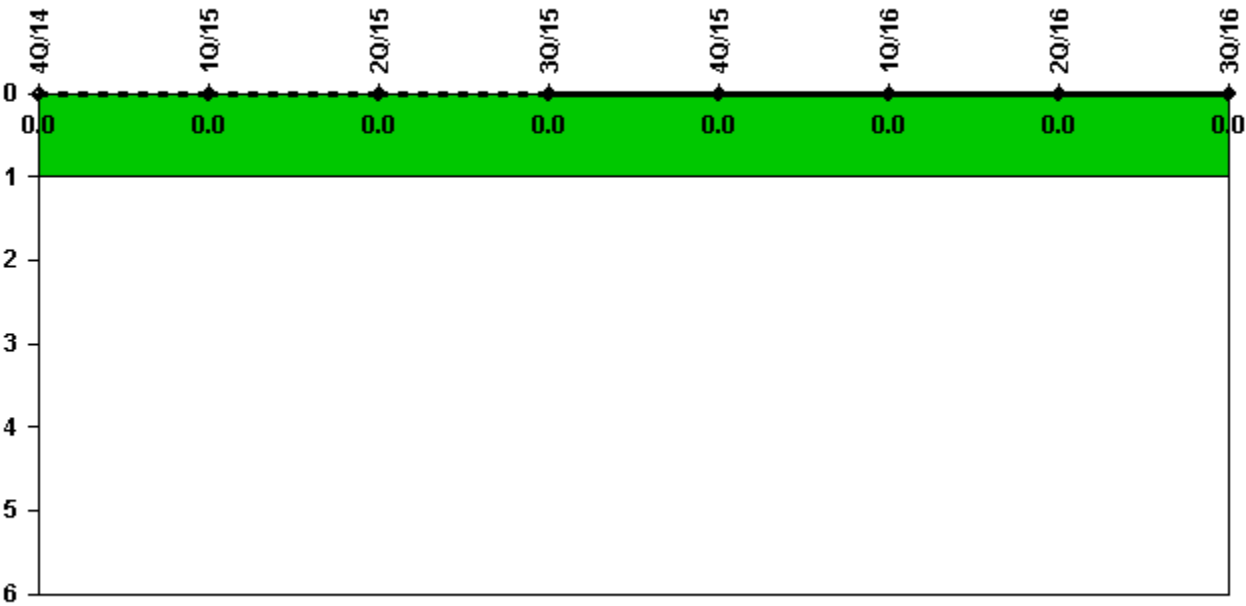
Unplanned Power Changes per 7000 Critical Hrs	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned power changes	0	0	0	0	0	0	1.0	1.0
Critical hours	2209.0	2159.0	2184.0	2208.0	2154.3	1584.0	319.8	2189.0
Indicator value	0.9	0.8	0.8	0	0	0	1.1	2.2

Licensee Comments:

3Q/16: On August 6, 2016, Heater Drain Tank (HDT) level controller failed causing both HDT discharge level control valves to fail open. HDT level lowered and both HDT pumps tripped at the low level setpoint. Operators rapidly reduced load to match steam flow and feedwater flow. During the rapid downpower, the RCS was bled and control rods were inserted. Critical parameters were maintained within limits. Power was stabilized at 78%.

2Q/16: On June 24, 2016, actions were initiated to commence reactor shutdown to comply the Technical Specification LCO 3.7.7 in order to repair a leaking weld on the 20 inch Service Water pipe to nozzle weld on the 21 Component Cooling Water Heat Exchanger. Entered Mode 3 at 07:59 hours, after normal plant shutdown and reactor trip per normal shutdown procedure 2-POP-3.1 (Plant Shutdown From 45% Power).

Unplanned Scrams with Complications



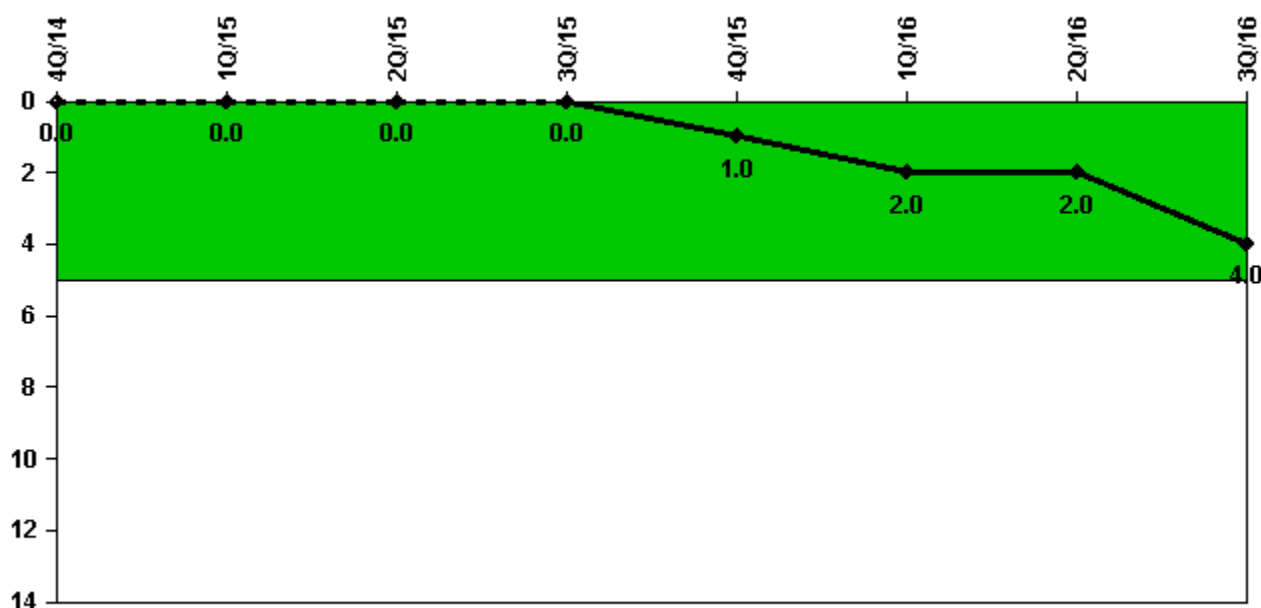
Thresholds: White > 1.0

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	1	1	0	2
Indicator value	0	0	0	0	1	2	2	4

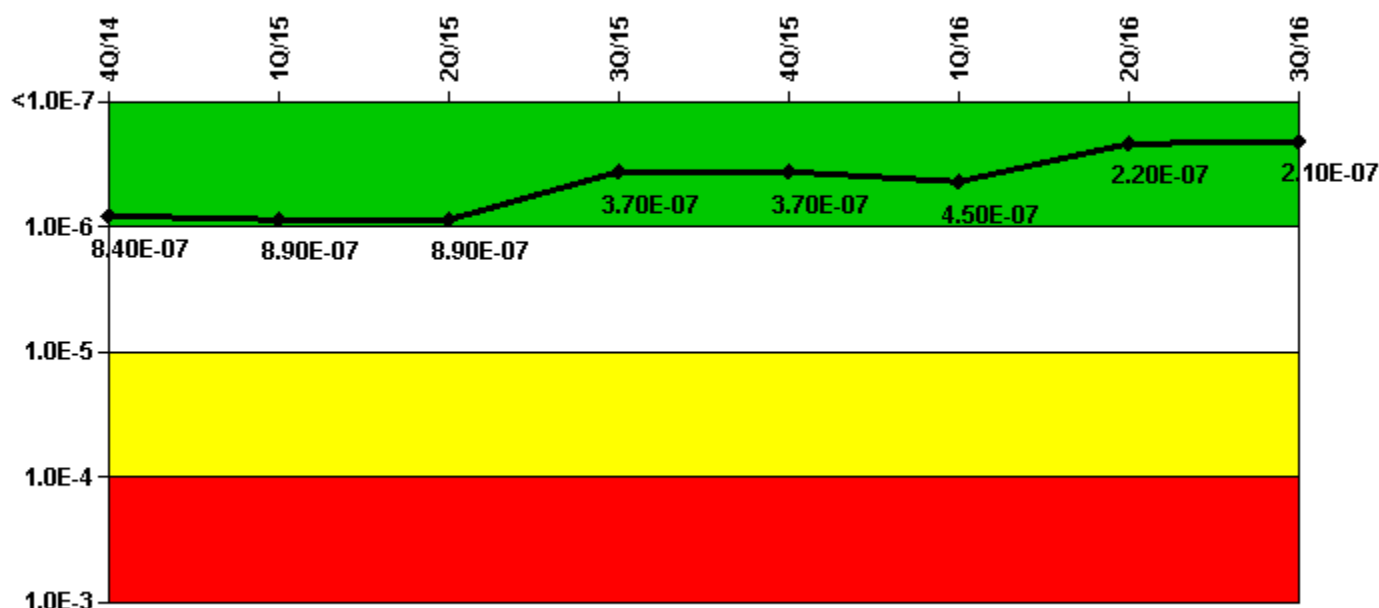
Licensee Comments:

3Q/16: LER-2016-007 reported on August 9, 2016, a safety system functional failure after discovering in Mode 4 two open ECCS sump barrier gates. The condition could have prevented adequate post accident core cooling due to DBA debris blockage of the containment recirculation sump and/or the containment sump. TS requires the ECCS to be operable in Modes 1-4. The licensing and design basis of the ECCS credits flow channeling barriers installed in response to GL-2004-02. On September 29, 2016, a revision of LER-2015-001 was submitted reporting a SSFF in addition to the initial reporting as a TS prohibited condition. Additional Entergy reporting guidance determined that this event was also reportable as a SSFF.

1Q/16: LER-2015-004 reported on February 18, 2016, a SSFF due to an inoperable containment caused by a flawed SW pipe elbow on the 21 FCU motor cooler return pipe.

4Q/15: LER-2015-002 reported a SSFF on October 19, 2015, due to fuses for the Residual Heat Removal Heat Exchanger outlet valves that would not remain operable under degraded voltage conditions.

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	4.23E-07	3.76E-07	3.77E-07	8.74E-08	8.64E-08	1.02E-07	8.06E-08	7.31E-08
URI (Δ CDF)	4.15E-07	5.12E-07	5.14E-07	2.83E-07	2.83E-07	3.53E-07	1.36E-07	1.38E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.40E-07	8.90E-07	8.90E-07	3.70E-07	3.70E-07	4.50E-07	2.20E-07	2.10E-07

Licensee Comments:

1Q/16: Load failure of 23 EDG recorded on 3/7/16 report # 321856 due to a degraded automatic voltage regulator.

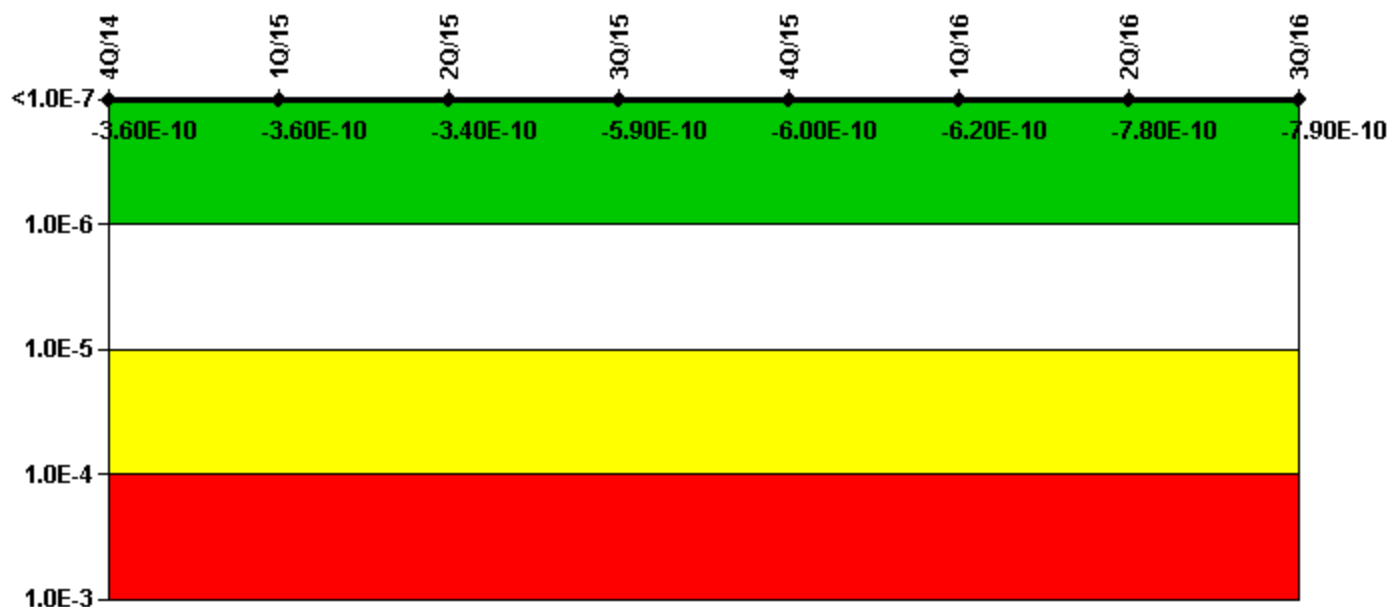
3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

2Q/15: Risk Cap Invoked.

1Q/15: Risk Cap Invoked.

4Q/14: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



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

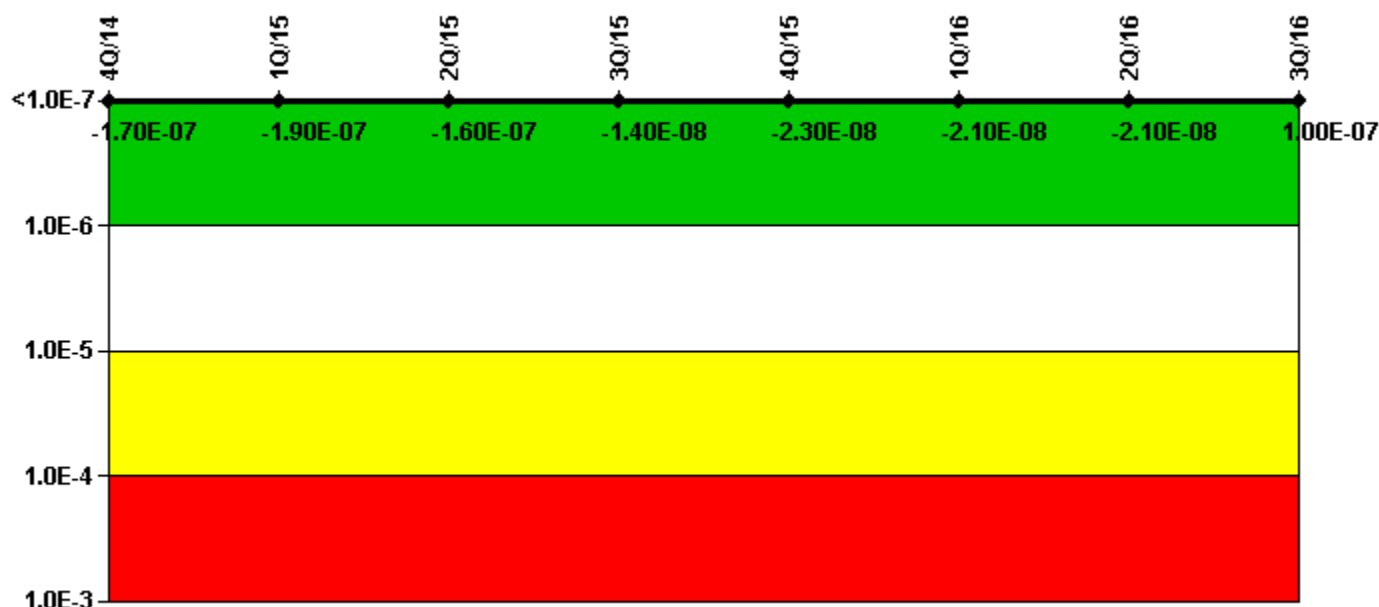
Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	-3.50E-11	-3.95E-11	-2.54E-11	-1.41E-10	-1.51E-10	-1.46E-10	-3.14E-10	-3.27E-10
URI (Δ CDF)	-3.27E-10	-3.18E-10	-3.11E-10	-4.51E-10	-4.53E-10	-4.75E-10	-4.69E-10	-4.66E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.60E-10	-3.60E-10	-3.40E-10	-5.90E-10	-6.00E-10	-6.20E-10	-7.80E-10	-7.90E-10

Licensee Comments:

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Heat Removal System



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

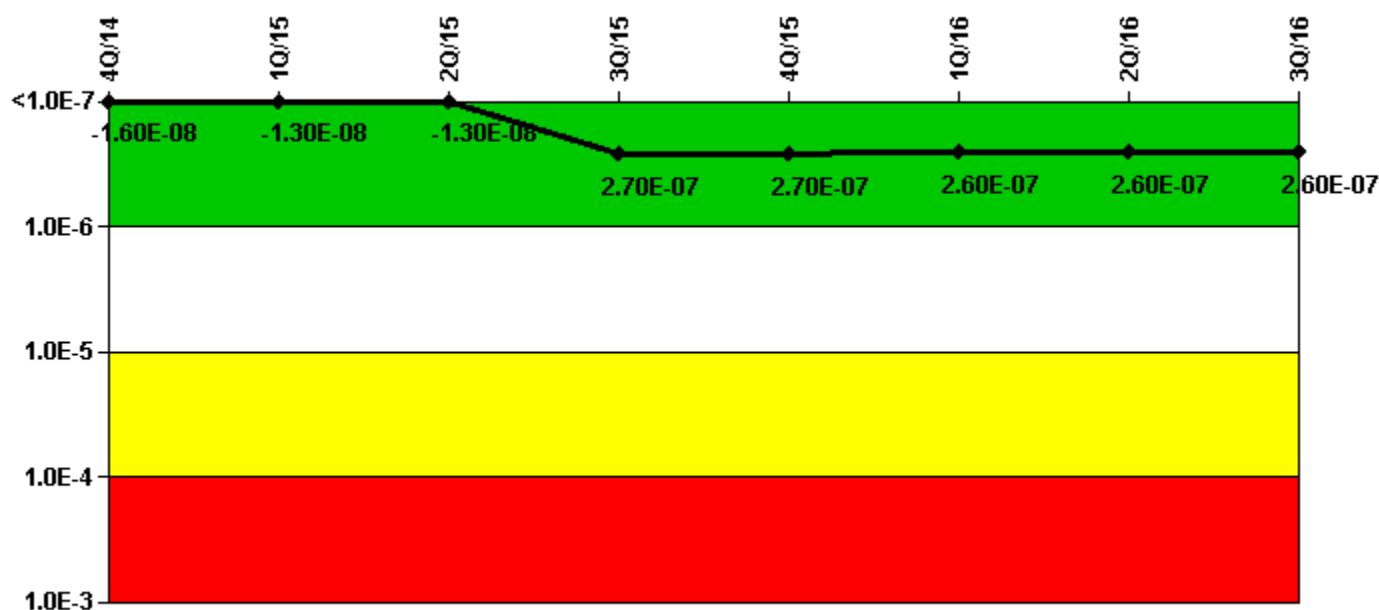
Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	2.10E-08	5.35E-10	1.06E-08	1.40E-08	6.84E-09	1.05E-08	1.24E-08	1.56E-08
URI (Δ CDF)	-1.93E-07	-1.86E-07	-1.71E-07	-2.83E-08	-2.94E-08	-3.18E-08	-3.33E-08	8.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	-1.90E-07	-1.60E-07	-1.40E-08	-2.30E-08	-2.10E-08	-2.10E-08	1.00E-07

Licensee Comments:

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

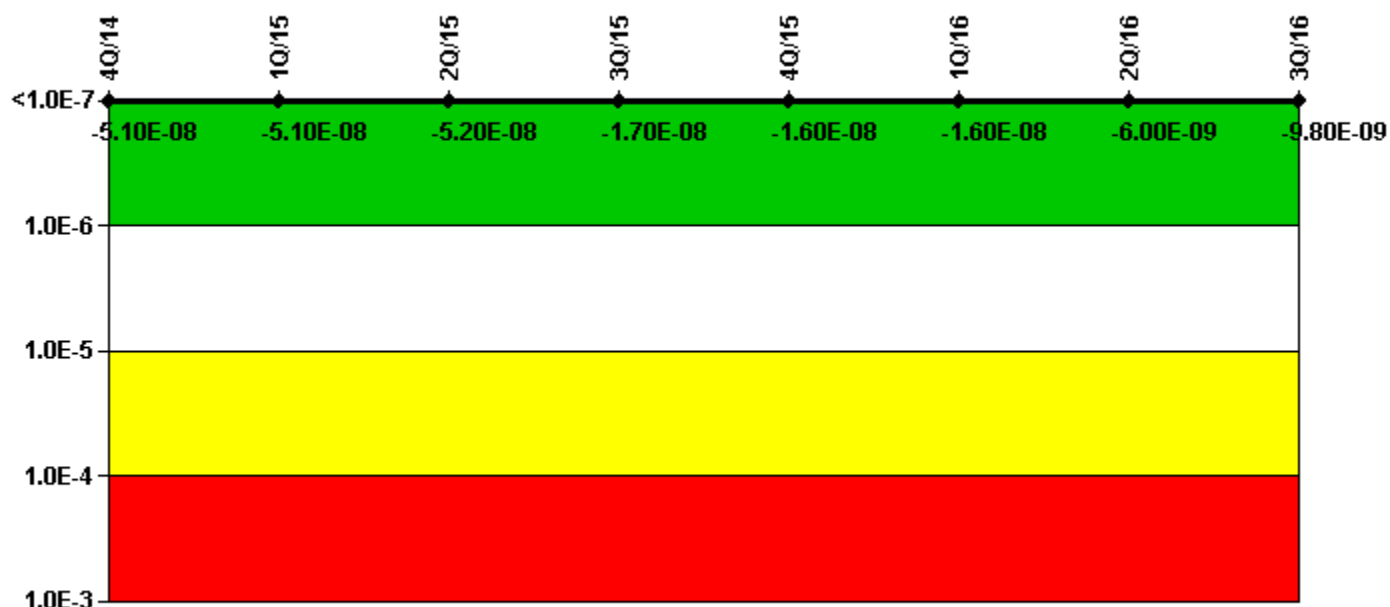
Mitigating Systems Performance Index, Residual Heat Removal System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	-4.19E-09	-4.35E-09	-4.36E-09	-3.99E-09	-4.26E-09	-4.13E-09	-8.89E-09	-8.26E-09
URI (Δ CDF)	-1.17E-08	-8.35E-09	-8.26E-09	2.70E-07	2.70E-07	2.67E-07	2.65E-07	2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.30E-08	-1.30E-08	2.70E-07	2.70E-07	2.60E-07	2.60E-07	2.60E-07

Licensee Comments:

3Q/15: The planned unavailability hours changed for the 21 and 22 RHR pump (0.0 hrs to 0.8 hrs) to reflect the final OE that the valves were inoperable as a result of the response to a CBDI inspection question and a final determination that the normally closed 21 and 22 RHR Pumps Heat Exchanger outlet valves (MOV-746 & MOV-747) would not adequately operate under degraded voltage conditions as a result of inadequate fuses. This resulted in both trains of RHR being considered inoperable. LER-2015-002 reported this event as a safety system functional failure. On December 29, 2015, ICES input data for the RHR event was determined to be complete which included a Maintenance Rule functional failure and MSPI safety system functional failure of both RHR Hx outlet valves. The ICES report was completed in ICES and initiated for review by INPO December 29, 2015. This action caused MSPI to be recalculated.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

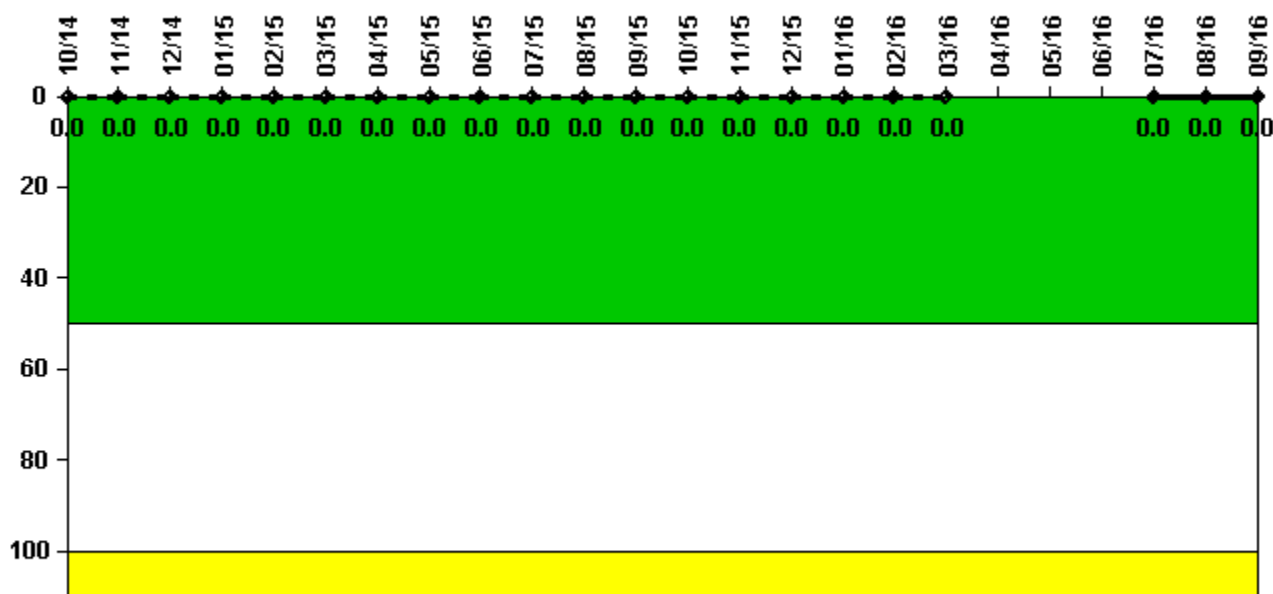
Mitigating Systems Performance Index, Cooling Water Systems	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
UAI (Δ CDF)	-4.38E-09	-4.67E-09	-5.17E-09	3.42E-09	3.50E-09	3.67E-09	1.43E-08	1.07E-08
URI (Δ CDF)	-4.68E-08	-4.64E-08	-4.64E-08	-2.07E-08	-1.95E-08	-2.02E-08	-2.03E-08	-2.06E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.10E-08	-5.10E-08	-5.20E-08	-1.70E-08	-1.60E-08	-1.60E-08	-6.00E-09	-9.80E-09

Licensee Comments:

3Q/15: The September 2015 CCWP demands and run hours were revised. 21 CCP demands changed from 0 to 1, run hours changed from 0.0 to 0.58; 22 CCP demands changed from 0 to 1, run hours changed from 720.0 to 719.48; 23 CCP demands changed from 0 to 1; run hours changed from 720.0 to 719.47.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes were made to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

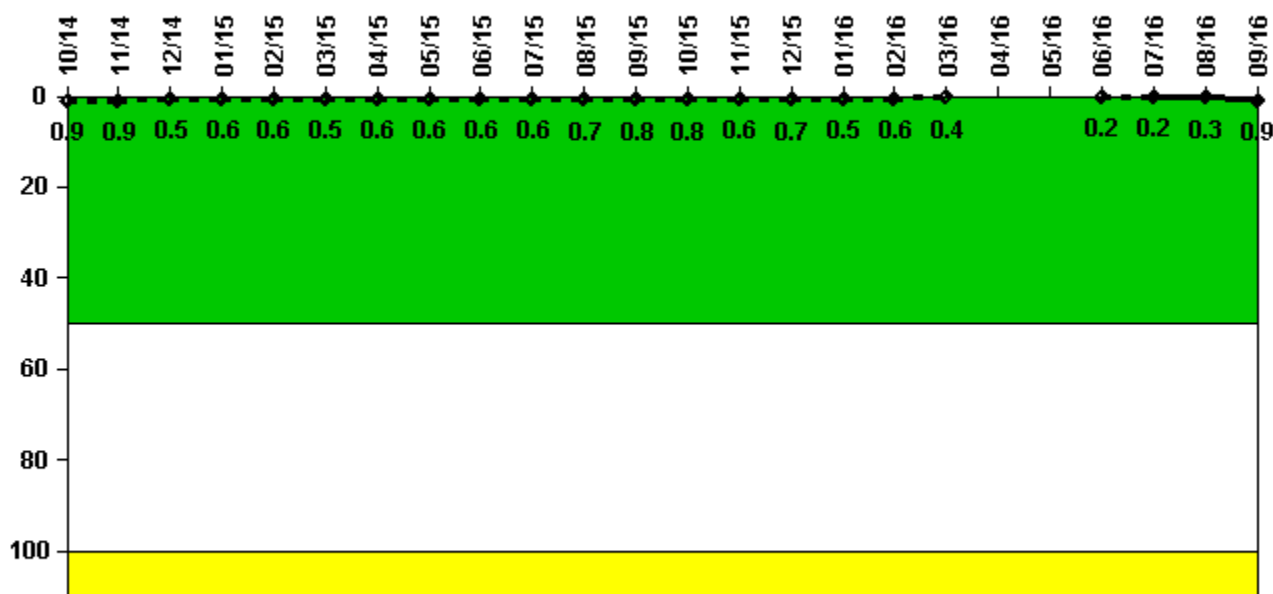
Notes

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	0.000158	0.000170	0.000175	0.000175	0.000170	0.000195	0.000182	0.000179	0.000190	0.000206	0.000202	0.000203
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum activity	0.000216	0.000260	0.000223	0.000271	0.000245	0.000150	N/A	N/A	N/A	0.000134	0.000131	0.000150
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	N/A	N/A	N/A	0	0	0

Licensee Comments:

6/16: Plant started refueling outage 3/7/16. No RCS coolant activity calculated.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

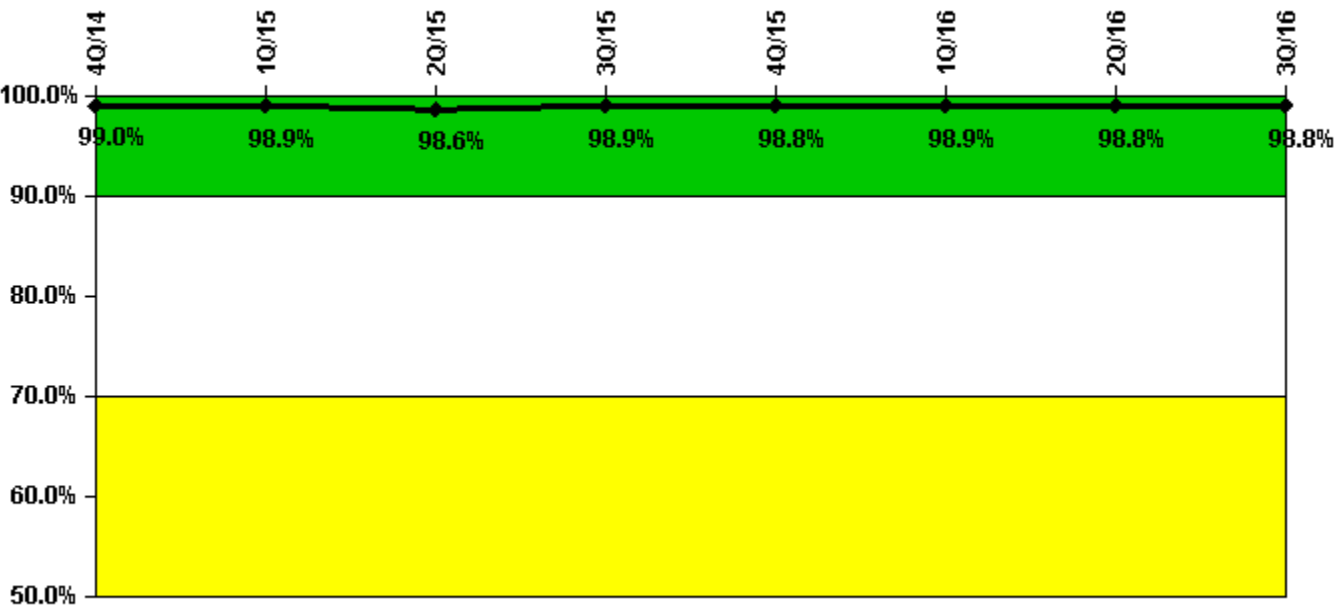
Notes

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	0.090	0.090	0.053	0.060	0.060	0.050	0.060	0.060	0.060	0.060	0.070	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.9	0.9	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.7	0.8
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	0.080	0.060	0.070	0.050	0.060	0.040	N/A	N/A	0.020	0.024	0.030	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.8	0.6	0.7	0.5	0.6	0.4	N/A	N/A	0.2	0.2	0.3	0.9

Licensee Comments:

6/16: Plant started refueling outage which was extended due to degraded RV baffle-former bolts. Unit startup was 6/16/16. No RCS Leal Rate was determined during outage due to plant in outage.

Drill/Exercise Performance



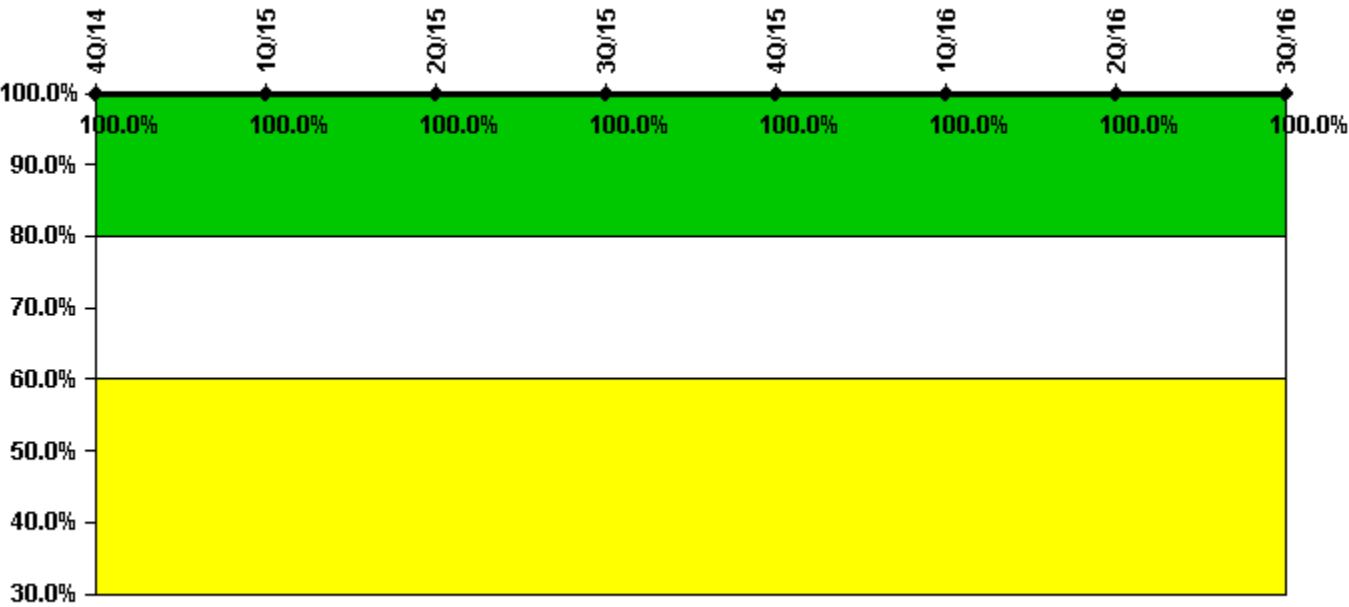
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful opportunities	109.0	20.0	71.0	146.0	28.0	26.0	62.0	103.0
Total opportunities	109.0	21.0	72.0	147.0	28.0	26.0	64.0	105.0
Indicator value	99.0%	98.9%	98.6%	98.9%	98.8%	98.9%	98.8%	98.8%

Licensee Comments: none

ERO Drill Participation



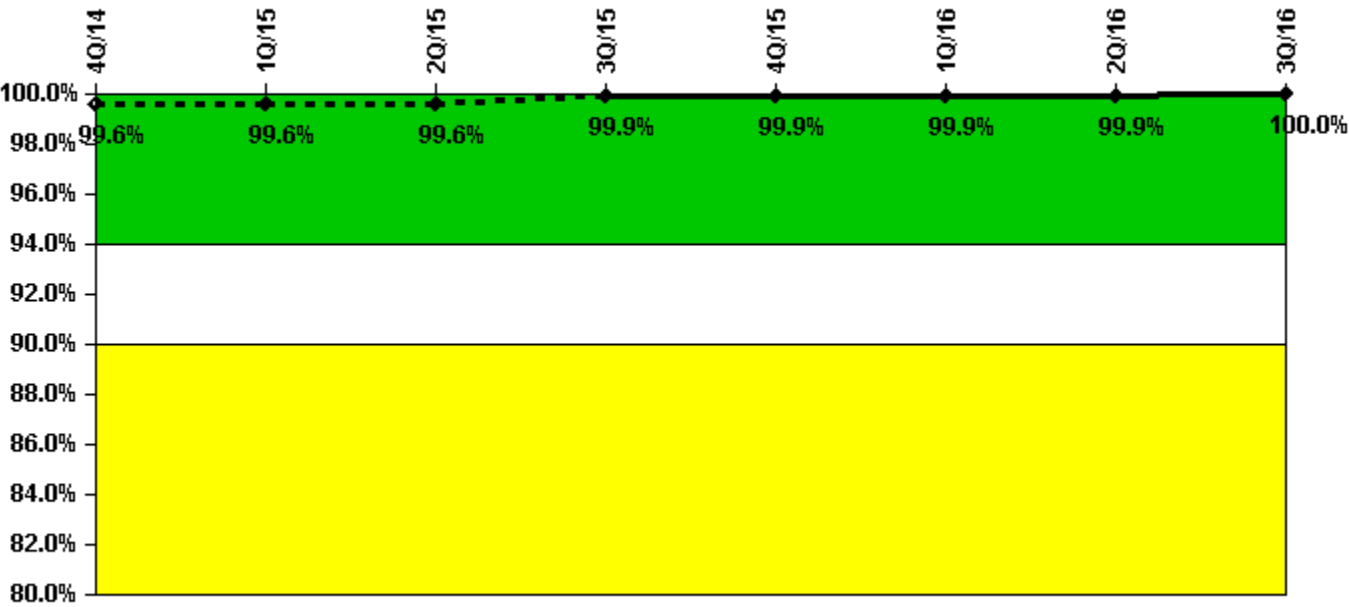
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Participating Key personnel	106.0	104.0	104.0	105.0	103.0	103.0	101.0	100.0
Total Key personnel	106.0	104.0	104.0	105.0	103.0	103.0	101.0	100.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



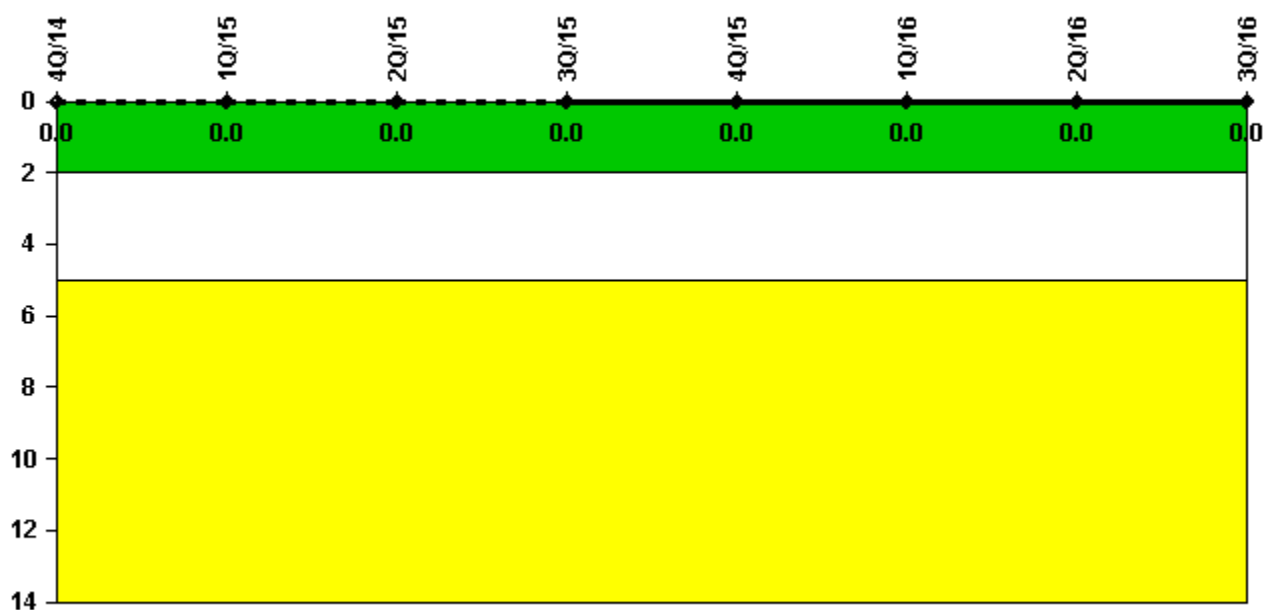
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful siren-tests	1104	1135	917	1105	1046	1188	1050	1081
Total sirens-tests	1104	1135	917	1109	1046	1188	1050	1081
Indicator value	99.6%	99.6%	99.6%	99.9%	99.9%	99.9%	99.9%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



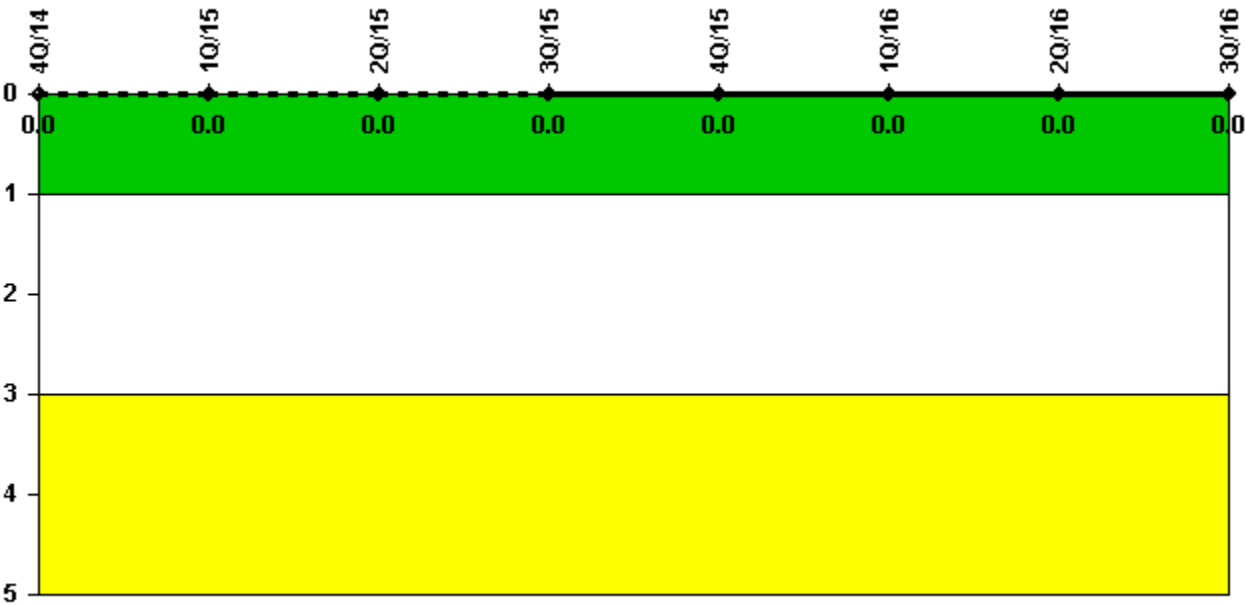
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

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

Last Modified: October 23, 2016

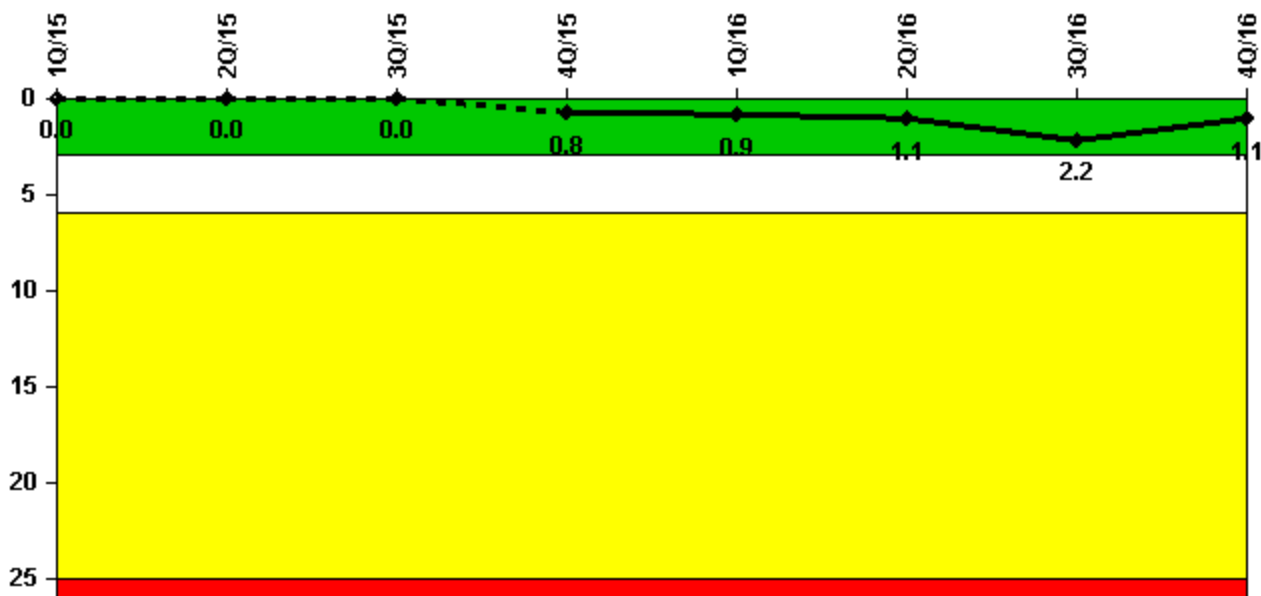
Indian Point 2

4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned scrams	0	0	0	1.0	0	0	1.0	0
Critical hours	2159.0	2184.0	2208.0	2154.3	1584.0	319.8	2189.0	2209.0
Indicator value	0	0	0	0.8	0.9	1.1	2.2	1.1

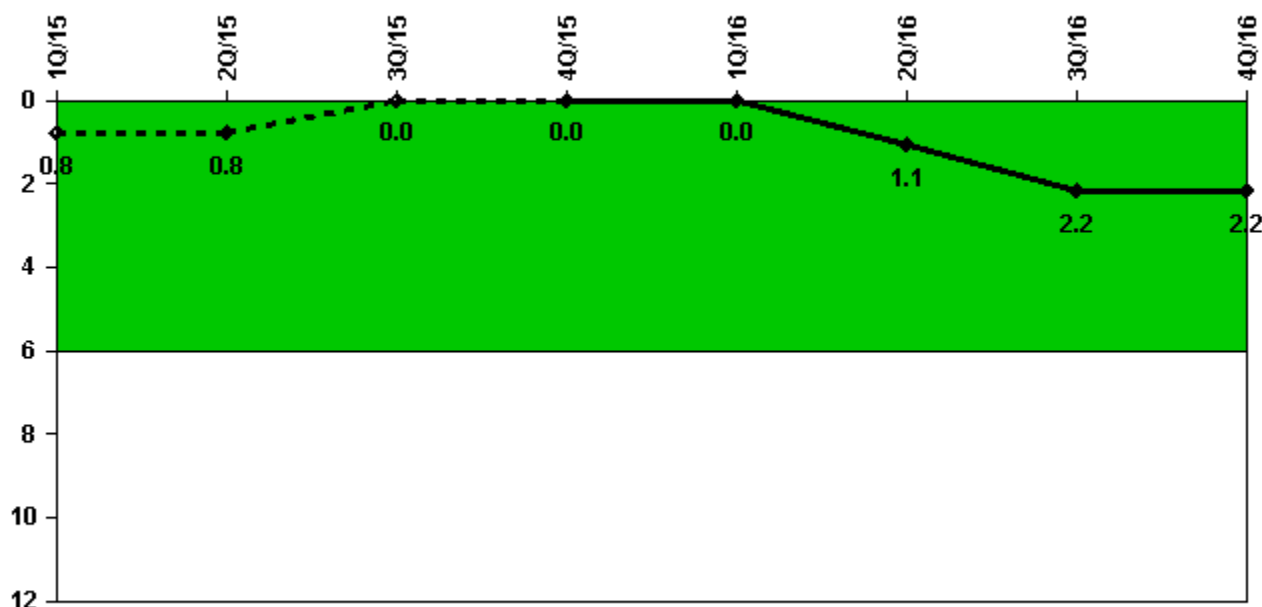
Licensee Comments:

3Q/16: On July 6, 2016, an automatic reactor trip was initiated during preparations for testing the reactor protection system logic train B actuation logic. LER-2016-009 reported this event on September 6, 2016.

4Q/15: On December 5, 2015, a manual reactor trip was initiated due to indications of multiple dropped control rods. Initiating event was a fault of Motor Control Center (MCC) 24-2H that caused the upstream supply breaker to open to clear the fault resulting in a loss of power to the operating backup power supply in Rod Control Cabinet

2BD with a degraded primary power supply. The loss of power to the Control Rod System caused the Control Rod stationary grippers to de-energize and rods inserted into the reactor core.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

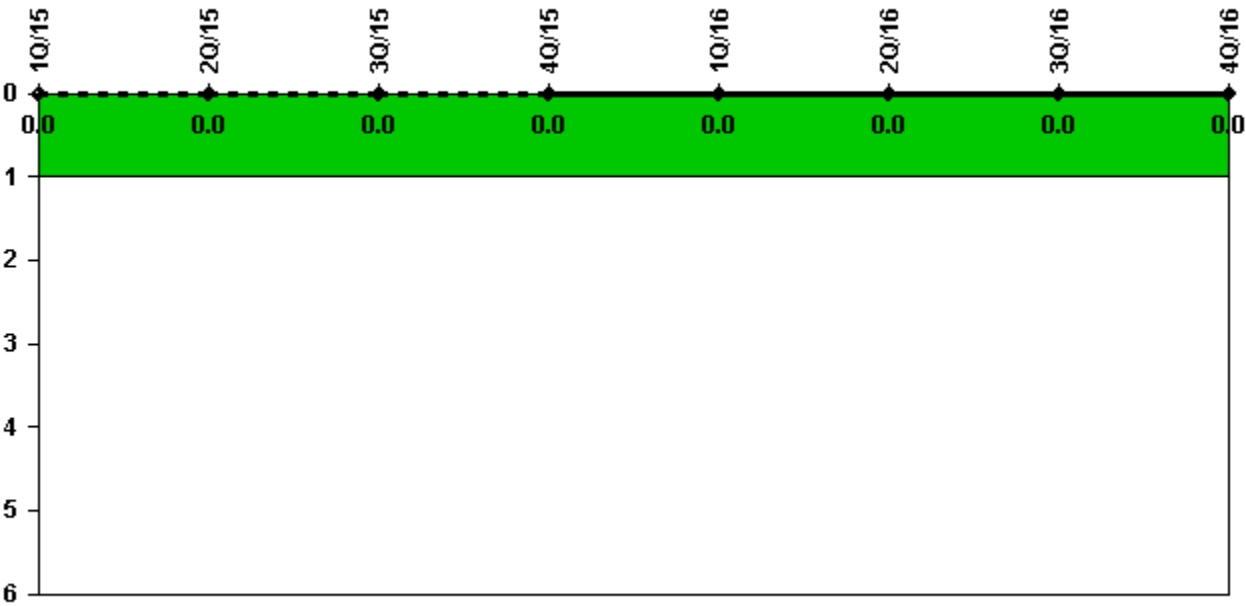
Unplanned Power Changes per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned power changes	0	0	0	0	0	1.0	1.0	0
Critical hours	2159.0	2184.0	2208.0	2154.3	1584.0	319.8	2189.0	2209.0
Indicator value	0.8	0.8	0	0	0	1.1	2.2	2.2

Licensee Comments:

3Q/16: On August 6, 2016, Heater Drain Tank (HDT) level controller failed causing both HDT discharge level control valves to fail open. HDT level lowered and both HDT pumps tripped at the low level setpoint. Operators rapidly reduced load to match steam flow and feedwater flow. During the rapid downpower, the RCS was bled and control rods were inserted. Critical parameters were maintained within limits. Power was stabilized at 78%.

2Q/16: On June 24, 2016, actions were initiated to commence reactor shutdown to comply the Technical Specification LCO 3.7.7 in order to repair a leaking weld on the 20 inch Service Water pipe to nozzle weld on the 21 Component Cooling Water Heat Exchanger. Entered Mode 3 at 07:59 hours, after normal plant shutdown and reactor trip per normal shutdown procedure 2-POP-3.1 (Plant Shutdown From 45% Power).

Unplanned Scrams with Complications



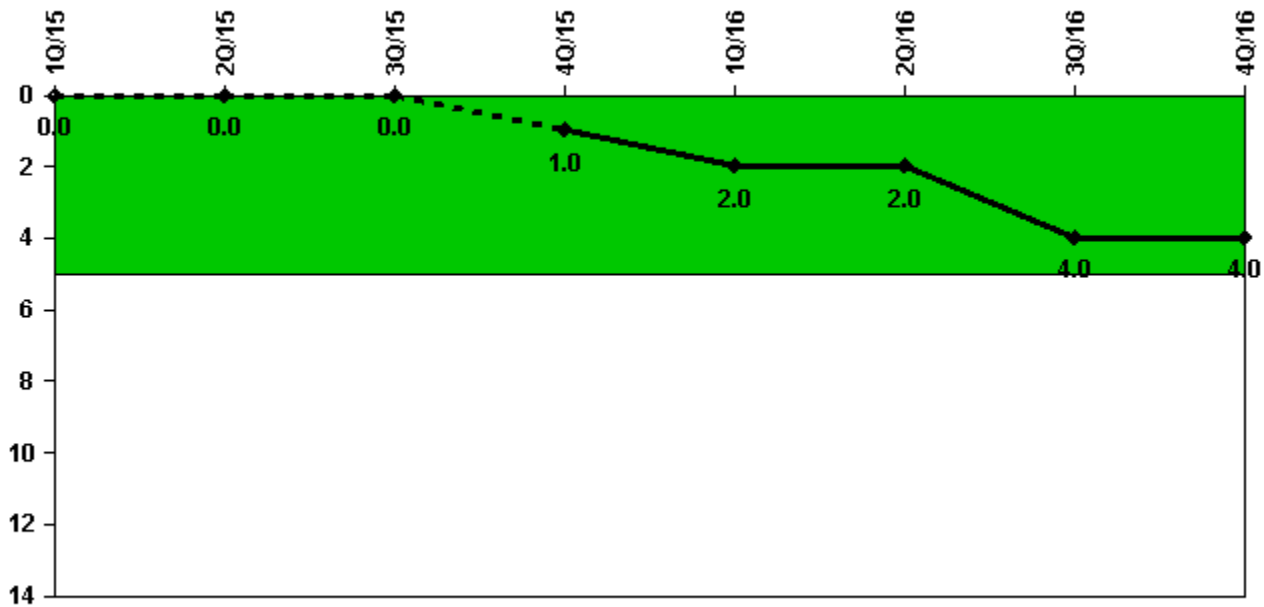
Thresholds: White > 1.0

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	1	1	0	2	1
Indicator value	0	0	0	1	2	2	4	4

Licensee Comments:

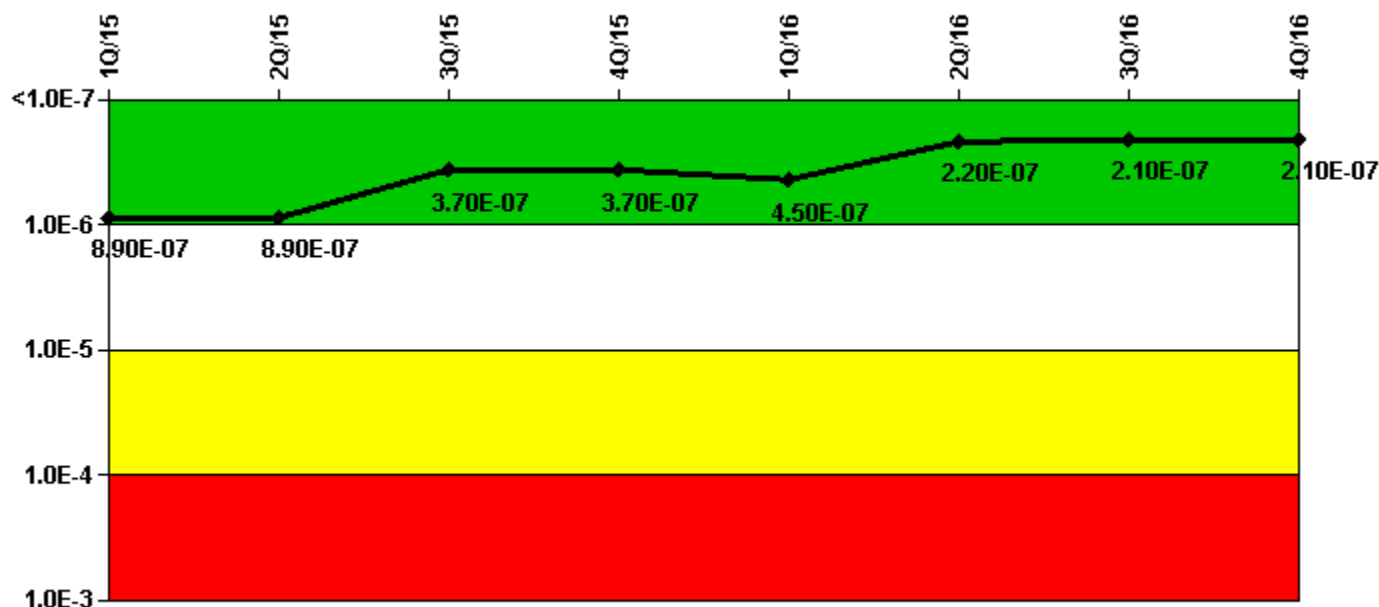
4Q/16: LER-2016-010 reported on December 21, 2016, a SSFF due to an inoperable containment caused by a through wall defect in a service water supply pipe elbow to the 24 fan cooler unit.

3Q/16: LER-2016-007 reported on August 9, 2016, a safety system functional failure after discovering in Mode 4 two open ECCS sump barrier gates. The condition could have prevented adequate post accident core cooling due to DBA debris blockage of the containment recirculation sump and/or the containment sump. TS requires the ECCS to be operable in Modes 1-4. The licensing and design basis of the ECCS credits flow channeling barriers installed in response to GL-2004-02. On September 29, 2016, a revision of LER-2015-001 was submitted reporting a SSFF in addition to the initial reporting as a TS prohibited condition. Additional Entergy reporting guidance determined that this event was also reportable as a SSFF.

1Q/16: LER-2015-004 reported on February 18, 2016, a SSFF due to an inoperable containment caused by a flawed SW pipe elbow on the 21 FCU motor cooler return pipe.

4Q/15: LER-2015-002 reported a SSFF on October 19, 2015, due to fuses for the Residual Heat Removal Heat Exchanger outlet valves that would not remain operable under degraded voltage conditions.

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	3.76E-07	3.77E-07	8.74E-08	8.64E-08	1.02E-07	8.06E-08	7.31E-08	7.10E-08
URI (Δ CDF)	5.12E-07	5.14E-07	2.83E-07	2.83E-07	3.53E-07	1.36E-07	1.38E-07	1.43E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.90E-07	8.90E-07	3.70E-07	3.70E-07	4.50E-07	2.20E-07	2.10E-07	2.10E-07

Licensee Comments:

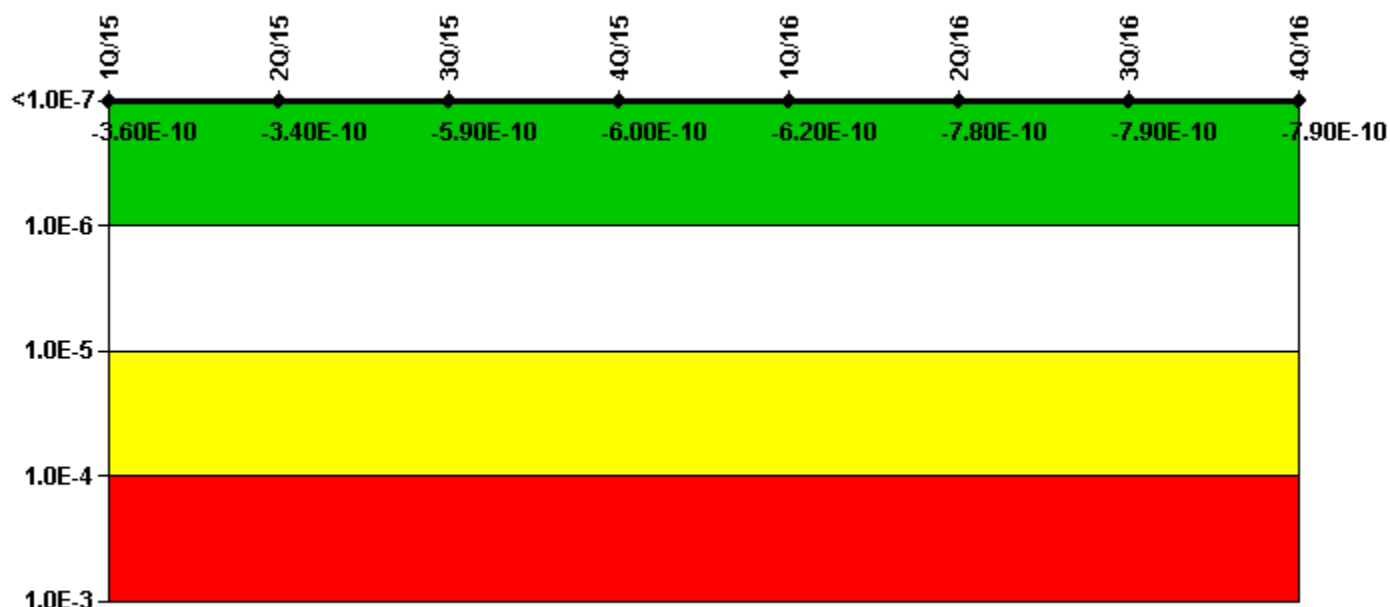
1Q/16: Load failure of 23 EDG recorded on 3/7/16 report # 321856 due to a degraded automatic voltage regulator.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

2Q/15: Risk Cap Invoked.

1Q/15: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



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

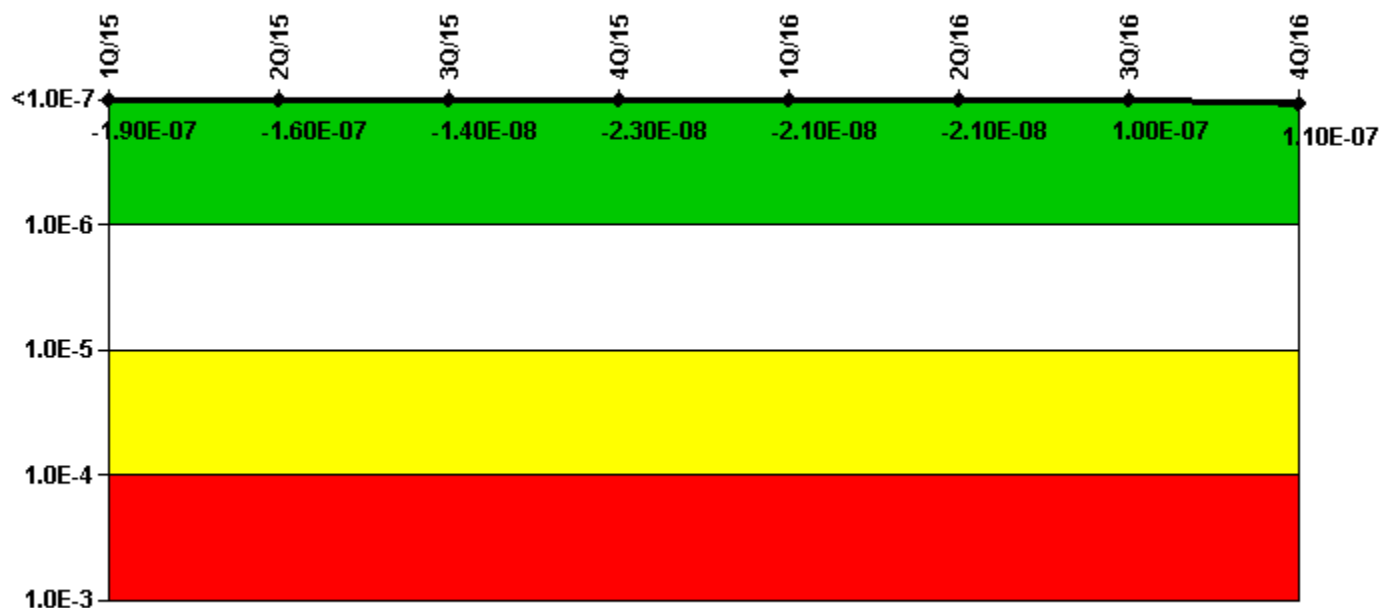
Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-3.95E-11	-2.54E-11	-1.41E-10	-1.51E-10	-1.46E-10	-3.14E-10	-3.27E-10	-3.27E-10
URI (Δ CDF)	-3.18E-10	-3.11E-10	-4.51E-10	-4.53E-10	-4.75E-10	-4.69E-10	-4.66E-10	-4.66E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.60E-10	-3.40E-10	-5.90E-10	-6.00E-10	-6.20E-10	-7.80E-10	-7.90E-10	-7.90E-10

Licensee Comments:

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Heat Removal System



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

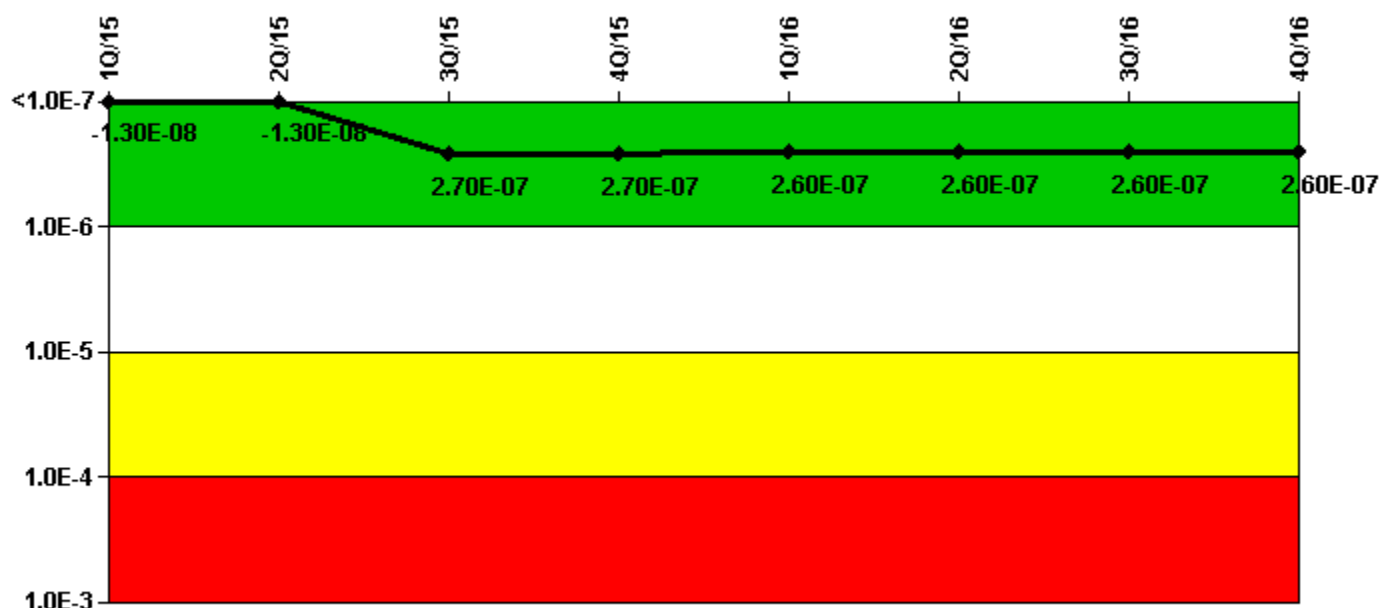
Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	5.35E-10	1.06E-08	1.40E-08	6.84E-09	1.05E-08	1.24E-08	1.56E-08	1.79E-08
URI (Δ CDF)	-1.86E-07	-1.71E-07	-2.83E-08	-2.94E-08	-3.18E-08	-3.33E-08	8.80E-08	8.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.90E-07	-1.60E-07	-1.40E-08	-2.30E-08	-2.10E-08	-2.10E-08	1.00E-07	1.10E-07

Licensee Comments:

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

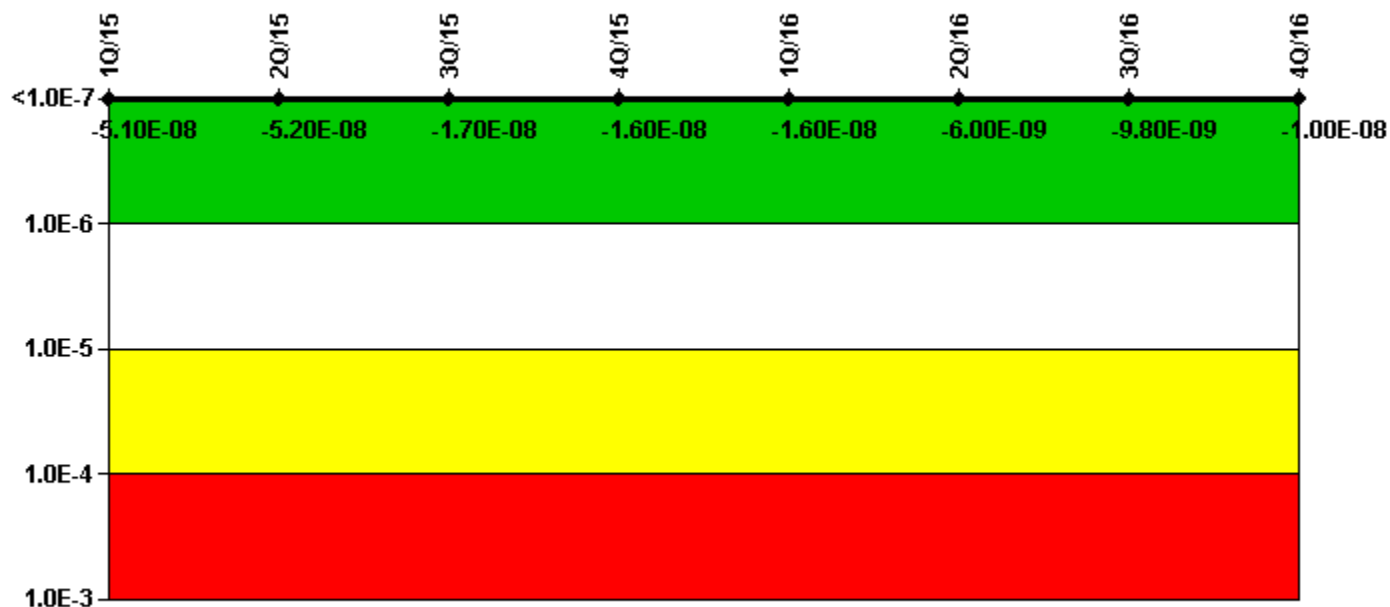
Mitigating Systems Performance Index, Residual Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-4.35E-09	-4.36E-09	-3.99E-09	-4.26E-09	-4.13E-09	-8.89E-09	-8.26E-09	-9.38E-09
URI (Δ CDF)	-8.35E-09	-8.26E-09	2.70E-07	2.70E-07	2.67E-07	2.65E-07	2.65E-07	2.65E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-08	-1.30E-08	2.70E-07	2.70E-07	2.60E-07	2.60E-07	2.60E-07	2.60E-07

Licensee Comments:

3Q/15: The planned unavailability hours changed for the 21 and 22 RHR pump (0.0 hrs to 0.8 hrs) to reflect the final OE that the valves were inoperable as a result of the response to a CBDI inspection question and a final determination that the normally closed 21 and 22 RHR Pumps Heat Exchanger outlet valves (MOV-746 & MOV-747) would not adequately operate under degraded voltage conditions as a result of inadequate fuses. This resulted in both trains of RHR being considered inoperable. LER-2015-002 reported this event as a safety system functional failure. On December 29, 2015, ICES input data for the RHR event was determined to be complete which included a Maintenance Rule functional failure and MSPI safety system functional failure of both RHR Hx outlet valves. The ICES report was completed in ICES and initiated for review by INPO December 29, 2015. This action caused MSPI to be recalculated.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

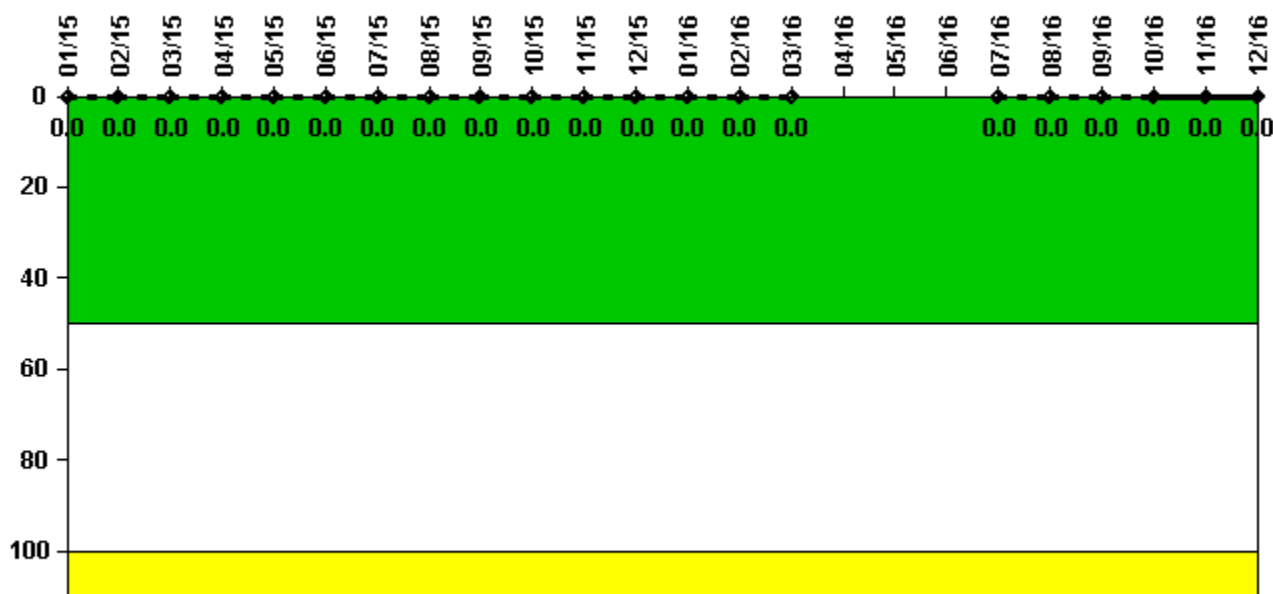
Mitigating Systems Performance Index, Cooling Water Systems	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (ΔCDF)	-4.67E-09	-5.17E-09	3.42E-09	3.50E-09	3.67E-09	1.43E-08	1.07E-08	1.08E-08
URI (ΔCDF)	-4.64E-08	-4.64E-08	-2.07E-08	-1.95E-08	-2.02E-08	-2.03E-08	-2.06E-08	-2.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.10E-08	-5.20E-08	-1.70E-08	-1.60E-08	-1.60E-08	-6.00E-09	-9.80E-09	-1.00E-08

Licensee Comments:

3Q/15: The September 2015 CCWP demands and run hours were revised. 21 CCP demands changed from 0 to 1, run hours changed from 0.0 to 0.58; 22 CCP demands changed from 0 to 1, run hours changed from 720.0 to 719.48; 23 CCP demands changed from 0 to 1; run hours changed from 720.0 to 719.47.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes were made to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

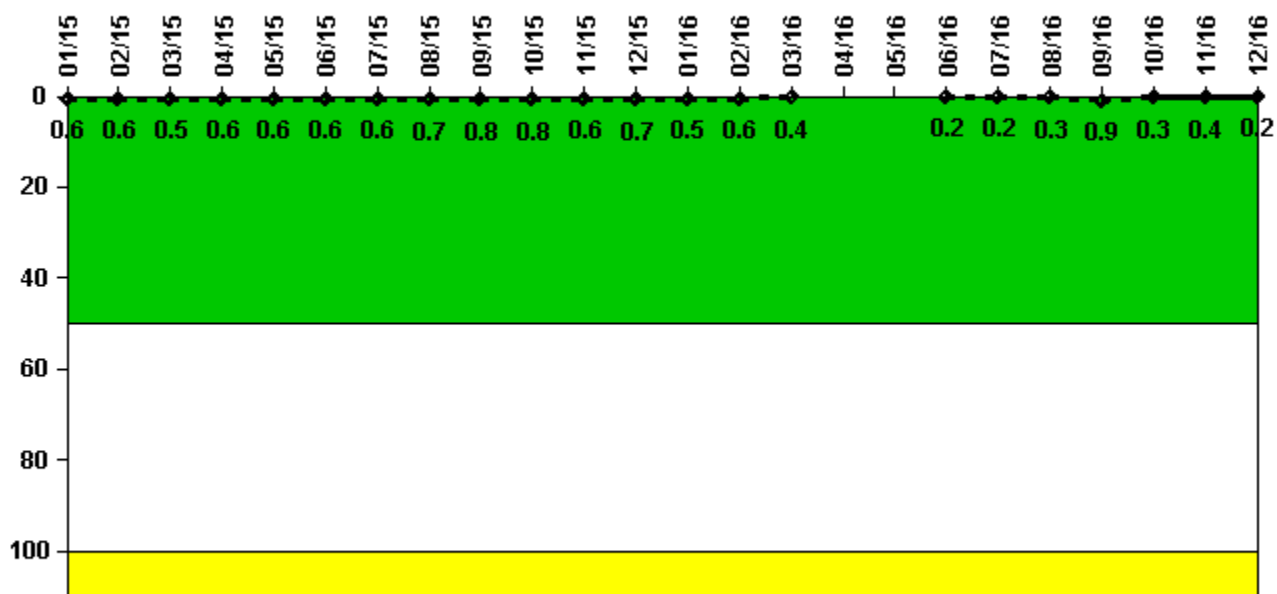
Notes

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	0.000175	0.000170	0.000195	0.000182	0.000179	0.000190	0.000206	0.000202	0.000203	0.000216	0.000260	0.000223
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0
Reactor Coolant System Activity	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum activity	0.000271	0.000245	0.000150	N/A	N/A	N/A	0.000134	0.000131	0.000150	0.000126	0.000145	0.000139
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	N/A	N/A	N/A	0	0	0	0	0	0

Licensee Comments:

6/16: Plant started refueling outage 3/7/16. No RCS coolant activity calculated.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

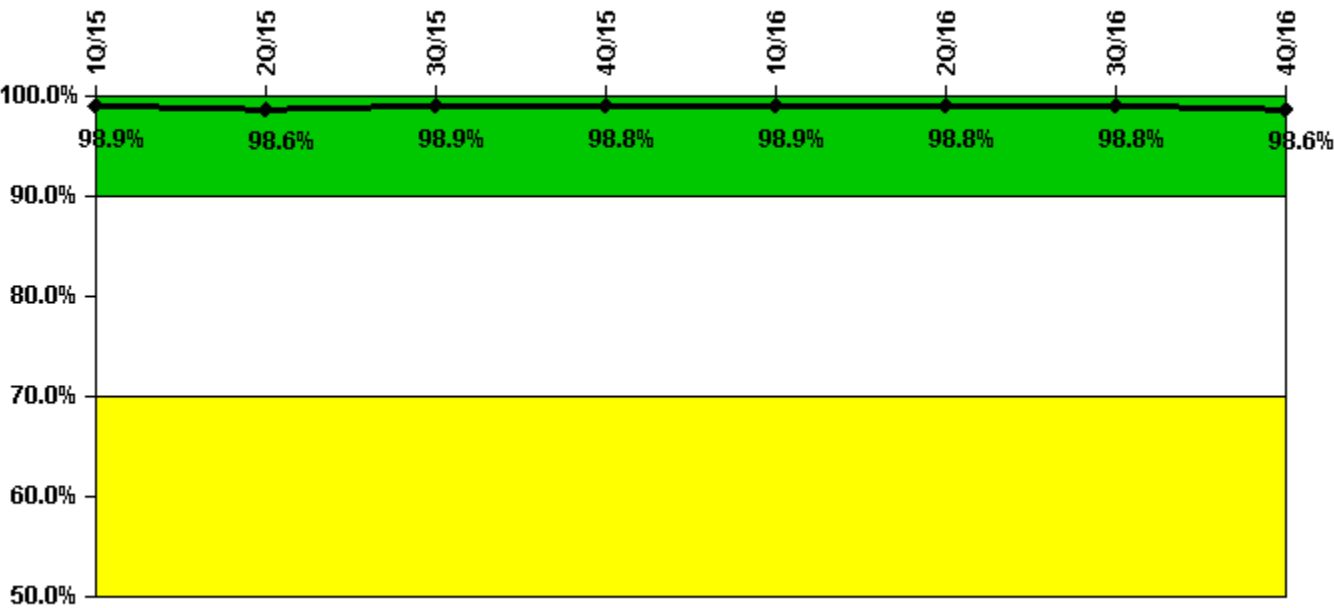
Notes

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	0.060	0.060	0.050	0.060	0.060	0.060	0.060	0.070	0.080	0.080	0.060	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.7	0.8	0.8	0.6	0.7
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	0.050	0.060	0.040	N/A	N/A	0.020	0.024	0.030	0.090	0.030	0.040	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	0.5	0.6	0.4	N/A	N/A	0.2	0.2	0.3	0.9	0.3	0.4	0.2

Licensee Comments:

6/16: Plant started refueling outage which was extended due to degraded RV baffle-former bolts. Unit startup was 6/16/16. No RCS Leal Rate was determined during outage due to plant in outage.

Drill/Exercise Performance



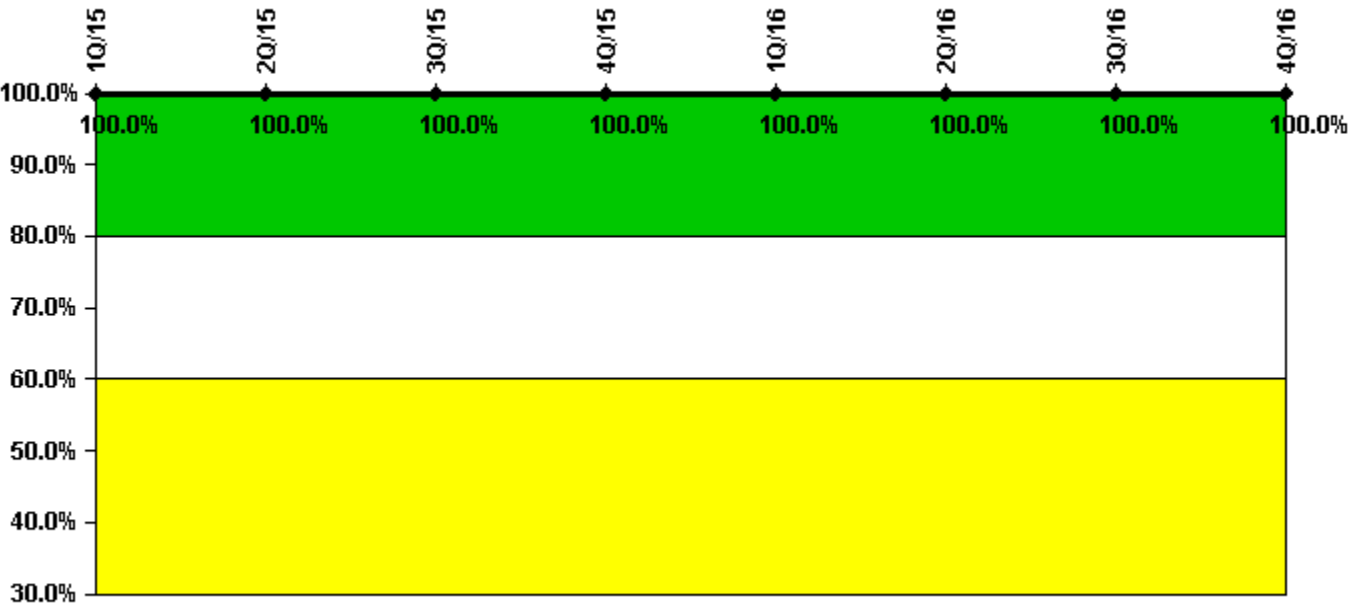
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful opportunities	20.0	71.0	146.0	28.0	26.0	62.0	103.0	93.0
Total opportunities	21.0	72.0	147.0	28.0	26.0	64.0	105.0	94.0
Indicator value	98.9%	98.6%	98.9%	98.8%	98.9%	98.8%	98.8%	98.6%

Licensee Comments: none

ERO Drill Participation



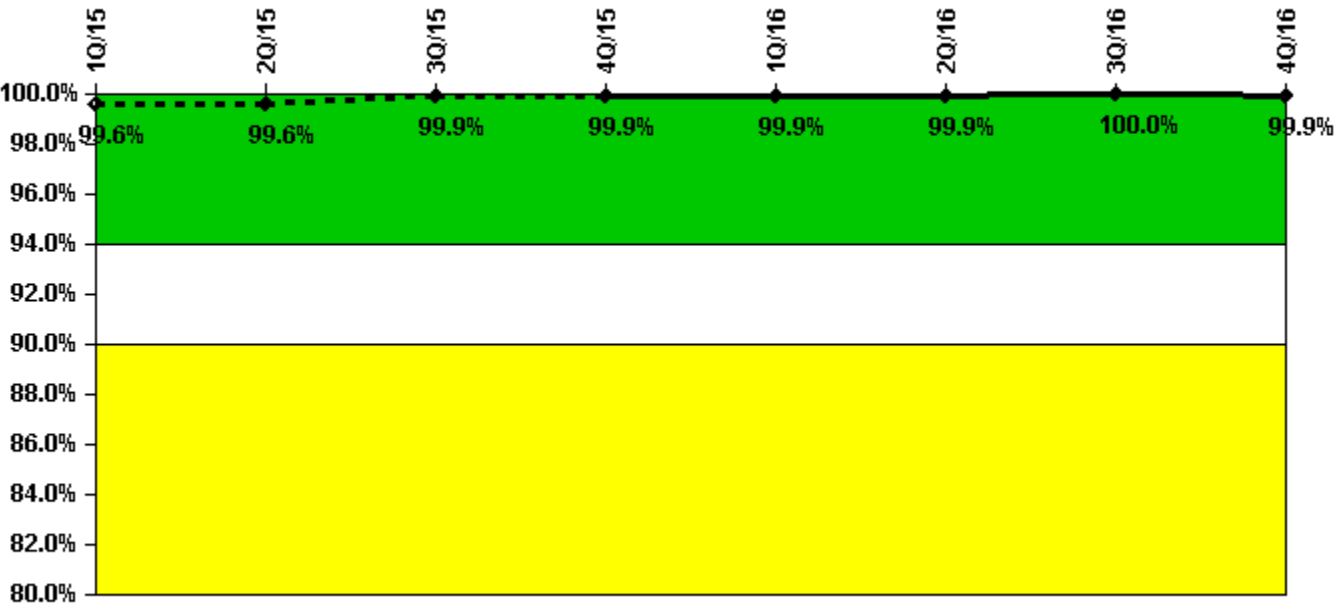
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Participating Key personnel	104.0	104.0	105.0	103.0	103.0	101.0	100.0	104.0
Total Key personnel	104.0	104.0	105.0	103.0	103.0	101.0	100.0	104.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



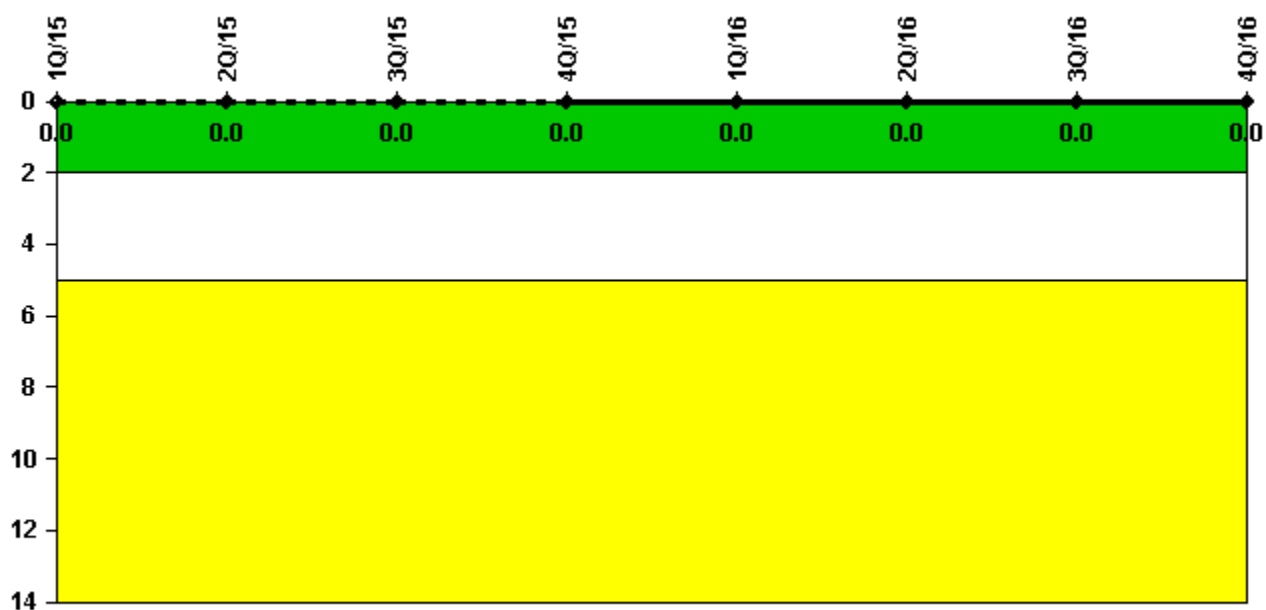
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful siren-tests	1135	917	1105	1046	1188	1050	1081	1201
Total sirens-tests	1135	917	1109	1046	1188	1050	1081	1204
Indicator value	99.6%	99.6%	99.9%	99.9%	99.9%	99.9%	100.0%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



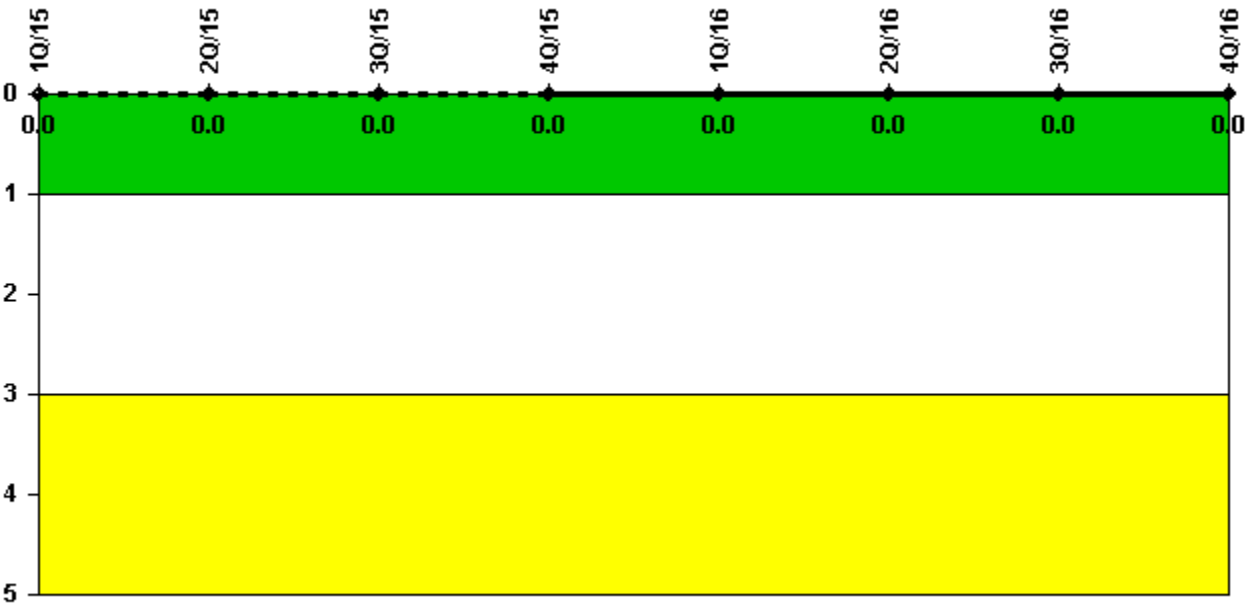
Thresholds: White > 2.0 Yellow > 5.0

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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Indian Point 2 – Quarterly Performance Indicators

1Q/2017 Performance Indicators

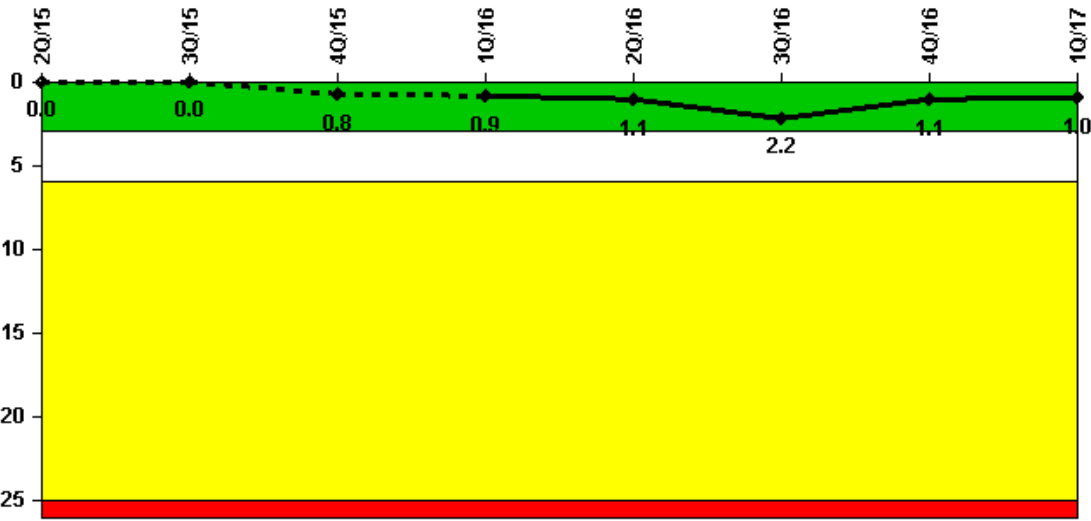
The solid trend line represents the current reporting period.

Licensee's General Comments: 1. EP01 (Drill/Exercise Performance) June 2016 (2Q16) Units 2 and 3 Comment to add in Change Report for EP01 ((Drill/Exercise Performance) for each unit: Revised Drill Opportunities from 8 to 7 based on NRC and NEI Working Group input per position on FAQ 13-07. 2. Comment to be added to the Change Reports for all unit 2 and unit 3 impacted MSPIs MSPI06 (EDG), MSPI07(HHSI), MSPI08(AFW), MSPI09(RHR), MSPI10 (CCW+SW) as a result of resolution of CR-IP2-2016-07044 (inappropriate counting of post maintenance tests as a demand). Time of consideration is 36 months (12Qs). As a result of an NRC RI review comment, an engineering review of the reporting guidelines of NEI 99-02 for recording MSPI data for Demand, Loads, Run Hours and Failures was performed. The review identified a discrepancy in the current method used to record MSPI data for reporting. In accordance with NEI 99-02, post maintenance test (PMT) demands, loads and run hours are to be excluded from the total count, except in cases where failures occurred independent of the maintenance performed. Engineering identified that IPEC did not exclude PMT demands, loads and run hours. Revisions as necessary were made to the previous 36 months of MSPI data to conform to the reporting guidelines of NEI 99-02. Condition was recorded in the Indian Point Corrective Action Program (CAP) as CR-IP2-2016-07044.

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/OCMD Radiological Effluent Occurrence \(PR01\)](#)
- [Protected Area Equipment \(PP01\)](#)

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned scrams	0	0	1.0	0	0	1.0	0	0
Critical hours	2184.0	2208.0	2154.3	1584.0	319.8	2189.0	2209.0	2159.0
Indicator value	0	0	0.8	0.9	1.1	2.2	1.1	1.0

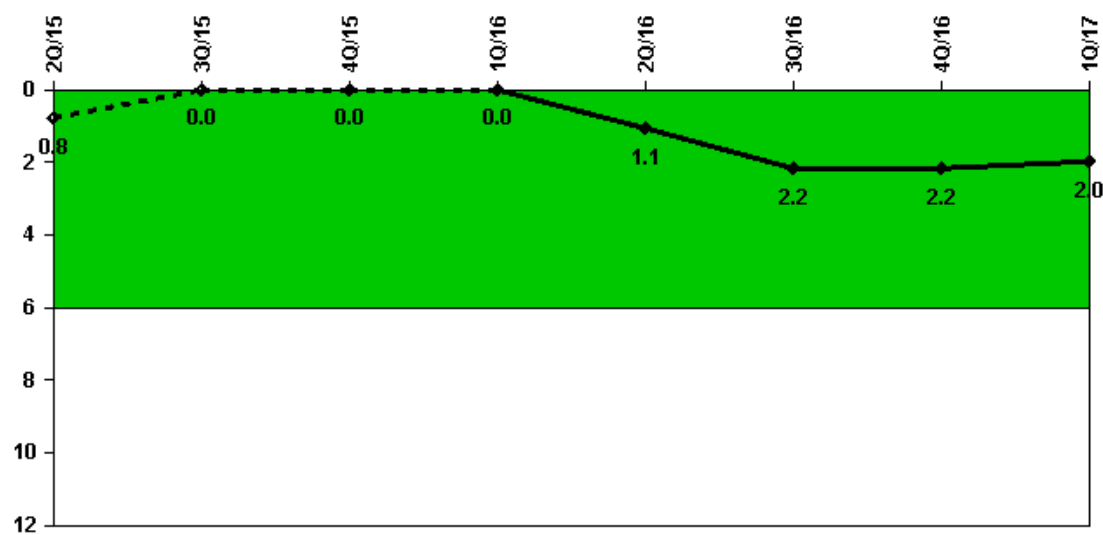
TOP

Licensee Comments:

3Q/16: On July 6, 2016, an automatic reactor trip was initiated during preparations for testing the reactor protection system logic train B actuation logic. LER-2016-009 reported this event on September 6, 2016.

4Q/15: On December 5, 2015, a manual reactor trip was initiated due to indications of multiple dropped control rods. Initiating event was a fault of Motor Control Center (MCC) 24-2H that caused the upstream supply breaker to open to clear the fault resulting in a loss of power to the operating backup power supply in Rod Control Cabinet 2BD with a degraded primary power supply. The loss of power to the Control Rod System caused the Control Rod stationary grippers to de-energize and rods inserted into the reactor core.

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	1.0	1.0	0	0
Critical hours	2184.0	2208.0	2154.3	1584.0	319.8	2189.0	2209.0	2159.0
Indicator value	0.8	0	0	0	1.1	2.2	2.2	2.0

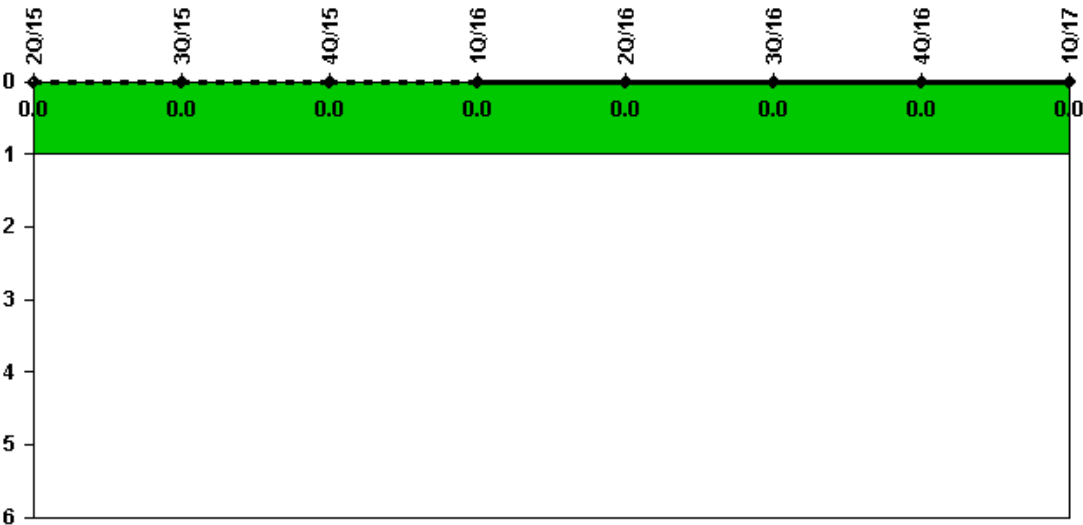
TOP

Licensee Comments:

3Q/16: On August 6, 2016, Heater Drain Tank (HDT) level controller failed causing both HDT discharge level control valves to fail open. HDT level lowered and both HDT pumps tripped at the low level setpoint. Operators rapidly reduced load to match steam flow and feedwater flow. During the rapid downpower, the RCS was borated and control rods were inserted. Critical parameters were maintained within limits. Power was stabilized at 78%.

2Q/16: On June 24, 2016, actions were initiated to commence reactor shutdown to comply the Technical Specification LCO 3.7.7 in order to repair a leaking weld on the 20 inch Service Water pipe to nozzle weld on the 21 Component Cooling Water Heat Exchanger. Entered Mode 3 at 07:59 hours, after normal plant shutdown and reactor trip per normal shutdown procedure 2-POP-3.1 (Plant Shutdown From 45% Power).

Unplanned Scrams with Complications



Thresholds: White > 1.0

Notes

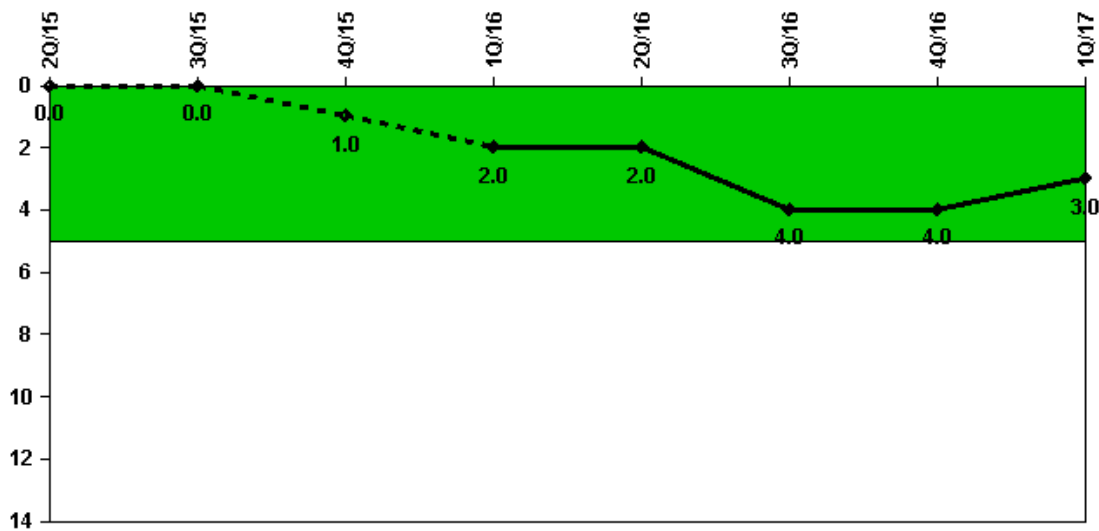
Unplanned Scrams with Complications	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Scrams with complications	0	0	0	0	0	0	0	0

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	1	1	0	2	1	0

Indicator value	0	0	1	2	2	4	4	3

TOP

Licensee Comments:

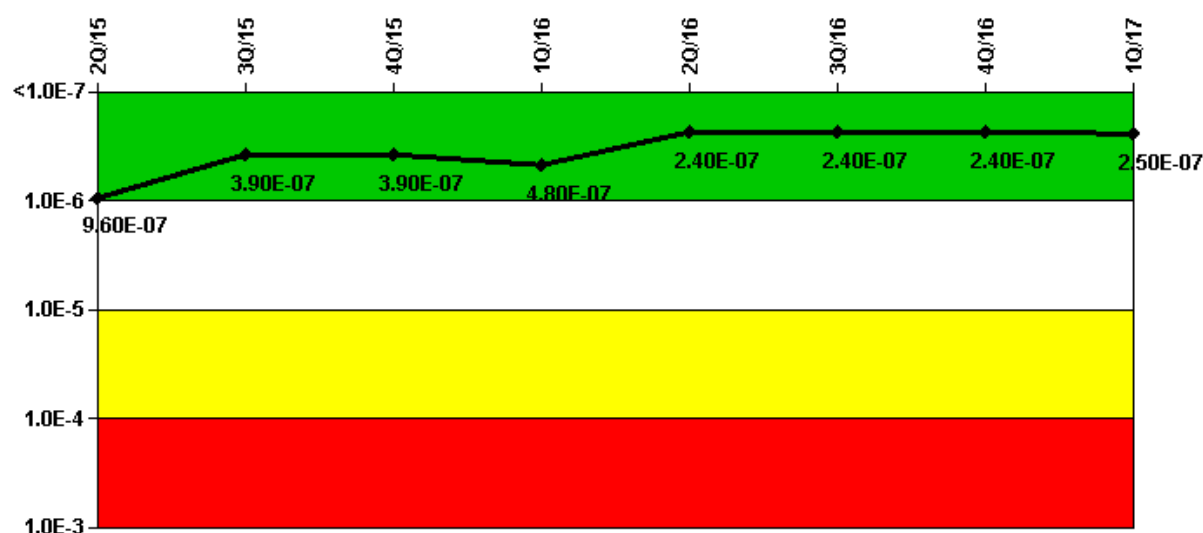
4Q/16: LER-2016-010 reported on December 21, 2016, a SSFF due to an inoperable containment caused by a through wall defect in a service water supply pipe elbow to the 24 fan cooler unit.

3Q/16: LER-2016-007 reported on August 9, 2016, a safety system functional failure after discovering in Mode 4 two open ECCS sump barrier gates. The condition could have prevented adequate post accident core cooling due to DBA debris blockage of the containment recirculation sump and/or the containment sump. TS requires the ECCS to be operable in Modes 1-4. The licensing and design basis of the ECCS credits flow channeling barriers installed in response to GL-2004-02. On September 29, 2016, a revision of LER-2015-001 was submitted reporting a SSFF in addition to the initial reporting as a TS prohibited condition. Additional Entergy reporting guidance determined that this event was also reportable as a SSFF.

1Q/16: LER-2015-004 reported on February 18, 2016, a SSFF due to an inoperable containment caused by a flawed SW pipe elbow on the 21 FCU motor cooler return pipe.

4Q/15: LER-2015-002 reported a SSFF on October 19, 2015, due to fuses for the Residual Heat Removal Heat Exchanger outlet valves that would not remain operable under degraded voltage conditions.

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System

	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	3.77E-07	8.74E-08	8.64E-08	1.02E-07	8.06E-08	7.31E-08	7.10E-08	6.43E-08
URI (ΔCDF)	5.85E-07	3.01E-07	3.02E-07	3.82E-07	1.59E-07	1.62E-07	1.67E-07	1.86E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.60E-07	3.90E-07	3.90E-07	4.80E-07	2.40E-07	2.40E-07	2.40E-07	2.50E-07

▲ TOP

Licensee Comments:

1Q/16: Load failure of 23 EDG recorded on 3/7/16 report # 321856 due to a degraded automatic voltage regulator.

1Q/16: Load failure of 23 EDG recorded on 3/7/16 report # 321856 due to a degraded automatic voltage regulator.

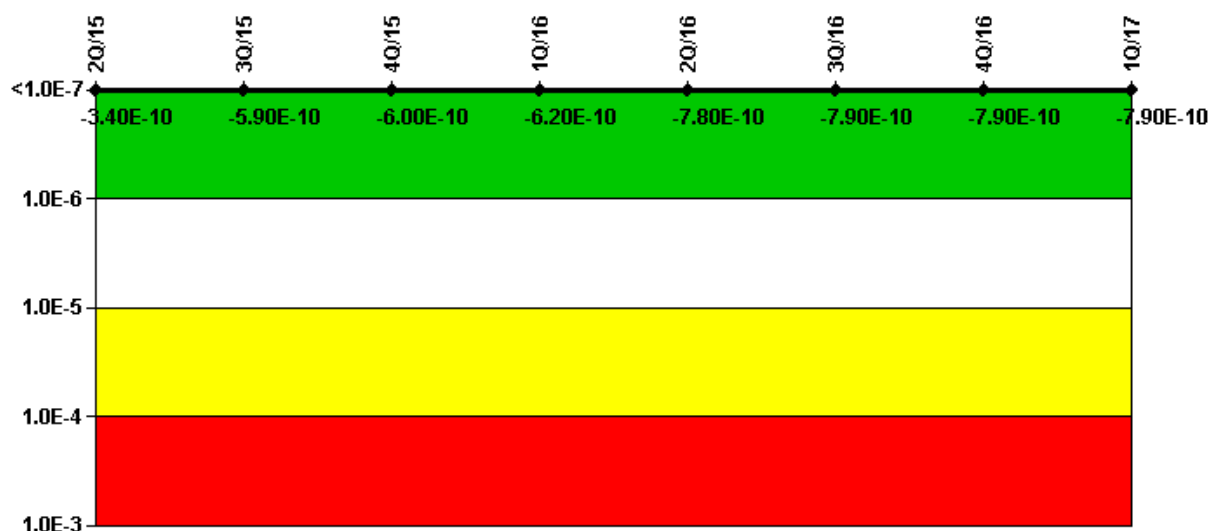
3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

3Q/15: 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

2Q/15: Risk Cap Invoked.

2Q/15: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System

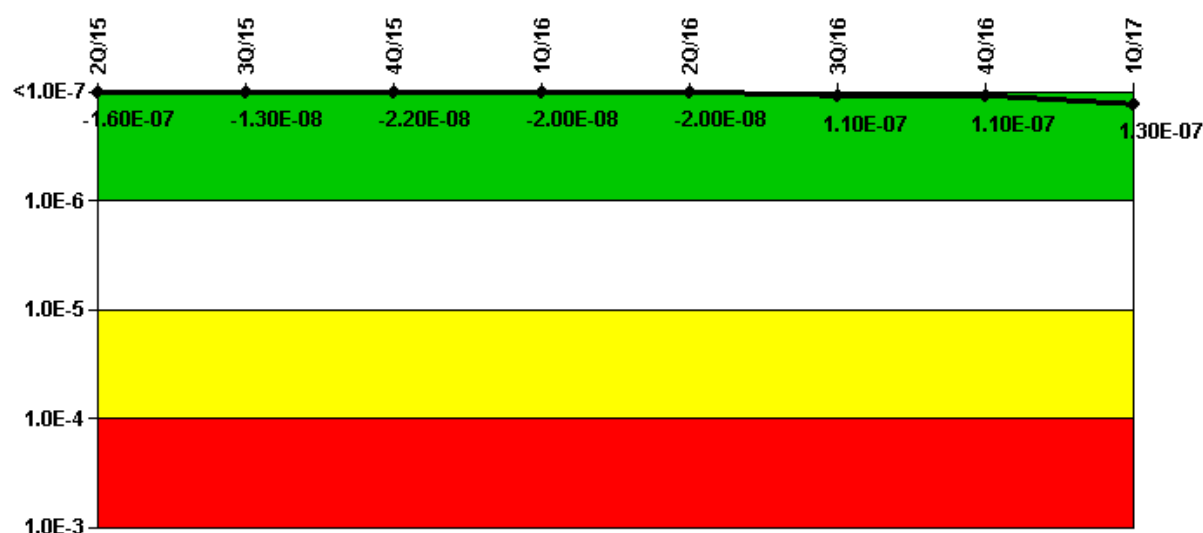
	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-2.54E-11	-1.41E-10	-1.51E-10	-1.46E-10	-3.14E-10	-3.27E-10	-3.27E-10	-3.29E-10
URI (ΔCDF)	-3.11E-10	-4.51E-10	-4.53E-10	-4.75E-10	-4.69E-10	-4.60E-10	-4.60E-10	-4.62E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.40E-10	-5.90E-10	-6.00E-10	-6.20E-10	-7.80E-10	-7.90E-10	-7.90E-10	-7.90E-10

TOP

Licensee Comments:

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

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)	1.06E-08	1.40E-08	6.84E-09	1.05E-08	1.24E-08	1.56E-08	1.79E-08	2.52E-08
URI (ΔCDF)	-1.69E-07	-2.73E-08	-2.84E-08	-3.07E-08	-3.22E-08	9.18E-08	9.20E-08	1.07E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-07	-1.30E-08	-2.20E-08	-2.00E-08	-2.00E-08	1.10E-07	1.10E-07	1.30E-07

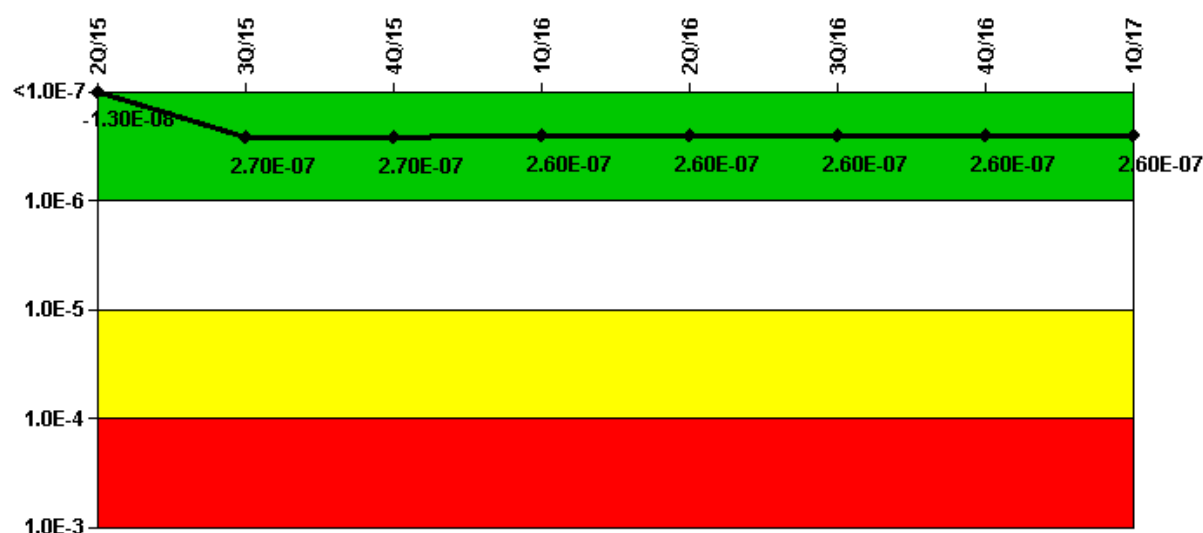
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Licensee Comments:

3Q/15: 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

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)	-4.36E-09	-3.99E-09	-4.26E-09	-4.13E-09	-8.89E-09	-8.26E-09	-9.38E-09	-9.30E-09
URI (ΔCDF)	-8.26E-09	2.70E-07	2.70E-07	2.67E-07	2.65E-07	2.65E-07	2.65E-07	2.69E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-08	2.70E-07	2.70E-07	2.60E-07	2.60E-07	2.60E-07	2.60E-07	2.60E-07

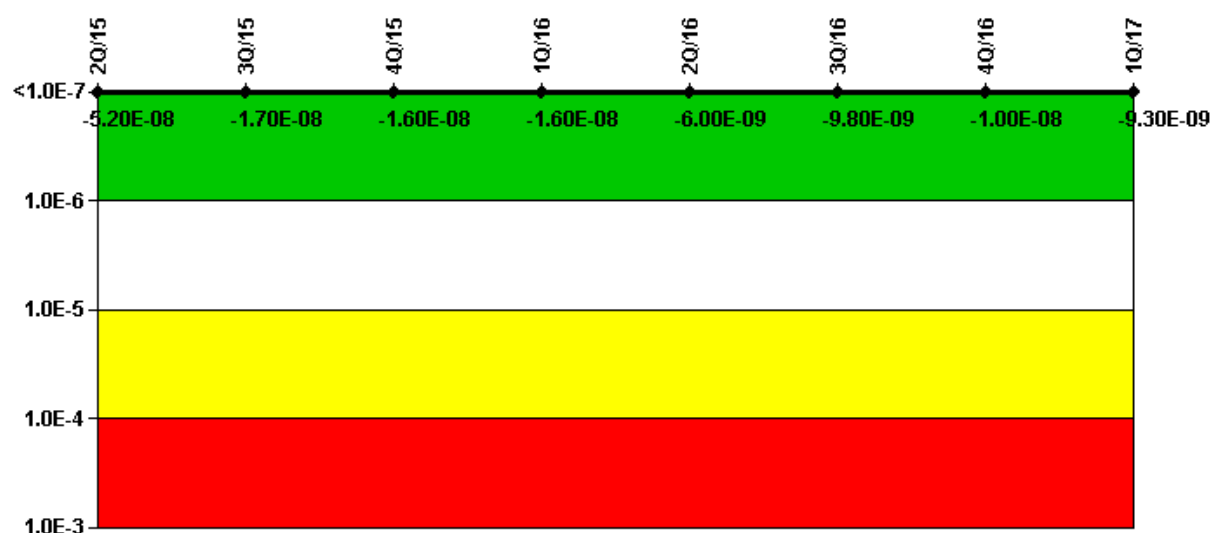
TOP

Licensee Comments:

3Q/15: The planned unavailability hours changed for the 21 and 22 RHR pump (0.0 hrs to 0.8 hrs) to reflect the final OE that the valves were inoperable as a result of the response to a CDBI inspection question and a final determination that the normally closed 21 and 22 RHR Pumps Heat Exchanger outlet valves (MOV-746 & MOV-747) would not adequately operate under degraded voltage conditions as a result of inadequate fuses. This resulted in both trains of RHR being considered inoperable. LER-2015-002 reported this event as a safety system functional failure. On December 29, 2015, ICES input data for the RHR event was determined to be complete which included a Maintenance Rule functional failure and MSPI safety system functional failure of both RHR Hx outlet valves. The ICES report was completed in ICES and initiated for review by INPO December 29, 2015. This action caused MSPI to be recalculated.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

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)	-5.17E-09	3.42E-09	3.50E-09	3.67E-09	1.43E-08	1.07E-08	1.08E-08	1.12E-08
URI (ΔCDF)	-4.64E-08	-2.07E-08	-1.95E-08	-2.02E-08	-2.03E-08	-2.06E-08	-2.10E-08	-2.04E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.20E-08	-1.70E-08	-1.60E-08	-1.60E-08	-6.00E-09	-9.80E-09	-1.00E-08	-9.30E-09

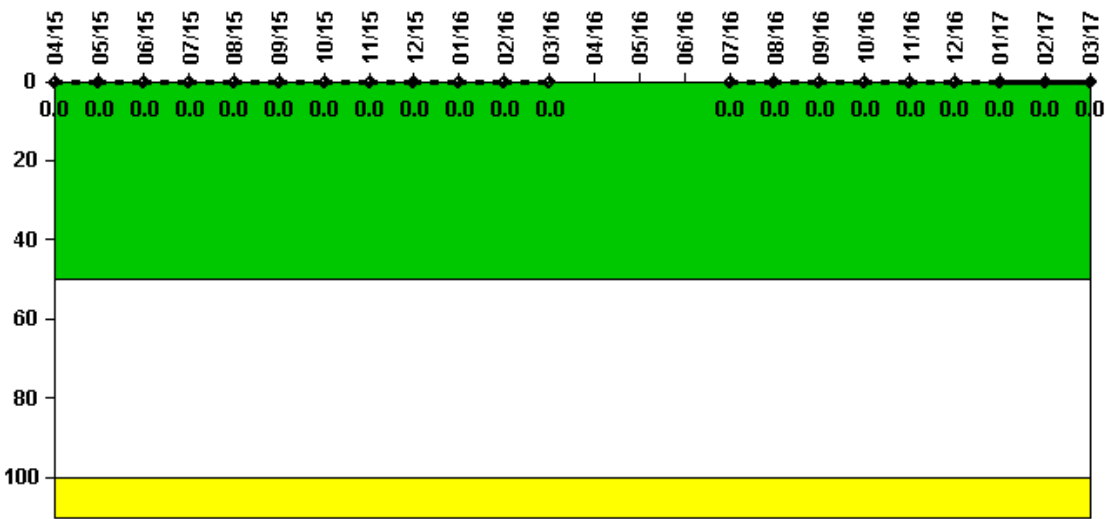
▲ TOP

Licensee Comments:

3Q/15: The September 2015 CCWP demands and run hours were revised. 21 CCP demands changed from 0 to 1, run hours changed from 0.0 to 0.58; 22 CCP demands changed from 0 to 1, run hours changed from 720.0 to 719.48; 23 CCP demands changed from 0 to 1; run hours changed from 720.0 to 719.47.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes were made to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

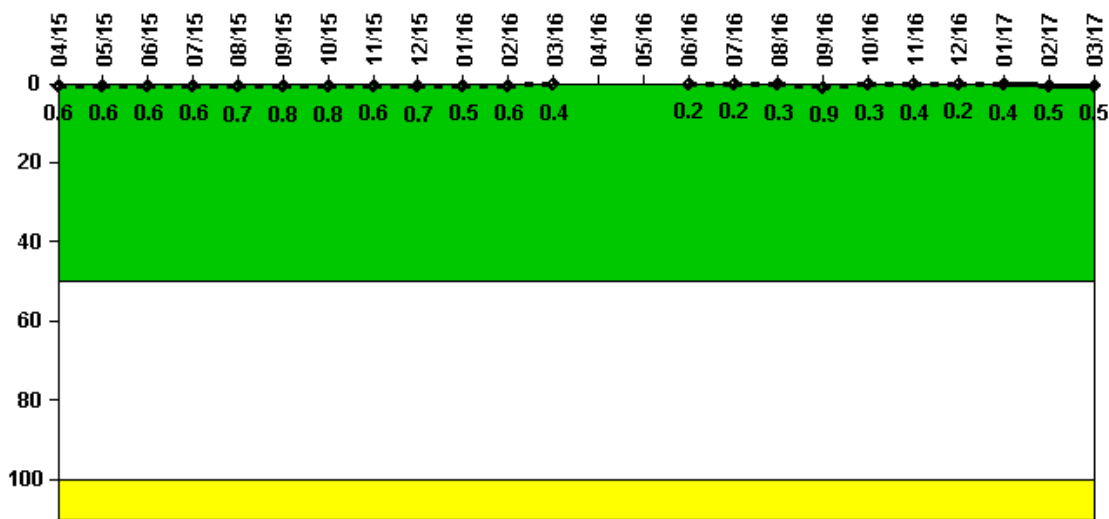
Reactor Coolant System Activity	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum activity	0.000182	0.000179	0.000190	0.000206	0.000202	0.000203	0.000216	0.000260	0.000223	0.000271	0.000245	0.000150
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum activity	N/A	N/A	N/A	0.000134	0.000131	0.000150	0.000126	0.000145	0.000139	0.000150	0.000150	0.000168
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	N/A	N/A	0	0	0	0	0	0	0	0	0

TOP

Licensee Comments:
6/16: Plant started refueling outage 3/7/16. No RCS coolant activity calculated.

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	0.060	0.060	0.060	0.060	0.070	0.080	0.080	0.060	0.070	0.050	0.060	0.040
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Indicator value	0.6	0.6	0.6	0.6	0.7	0.8	0.8	0.6	0.7	0.5	0.6	0.4
Reactor Coolant System Leakage	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum leakage	N/A	N/A	0.020	0.024	0.030	0.090	0.030	0.040	0.020	0.040	0.050	0.050
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

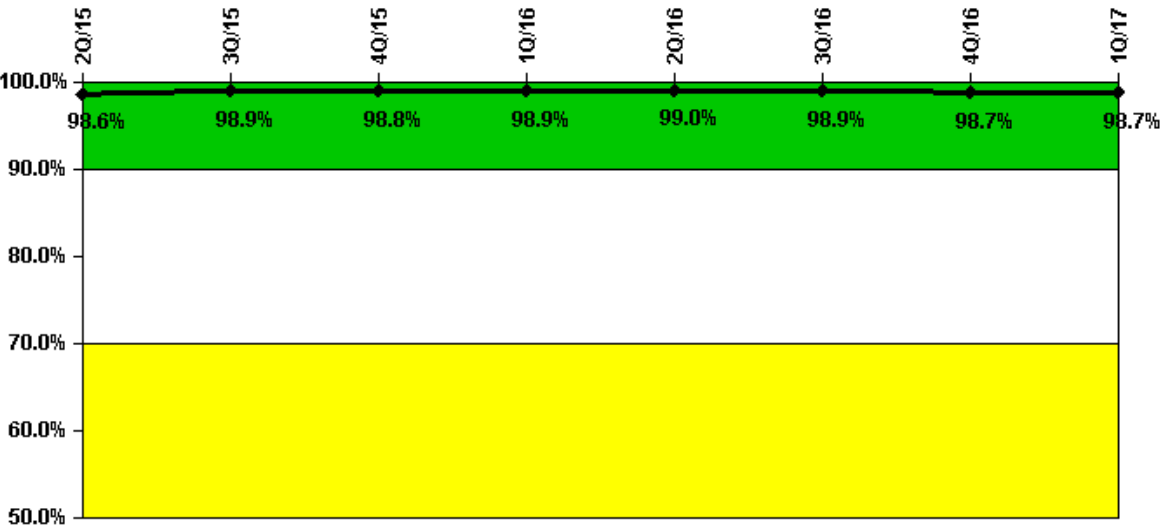
Indicator value	N/A	N/A	0.2	0.2	0.3	0.9	0.3	0.4	0.2	0.4	0.5	0.5

TOP

Licensee Comments:

6/16: Plant started refueling outage which was extended due to degraded RV baffle-former bolts. Unit startup was 6/16/16. No RCS Leal Rate was determined during outage due to plant in outage.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

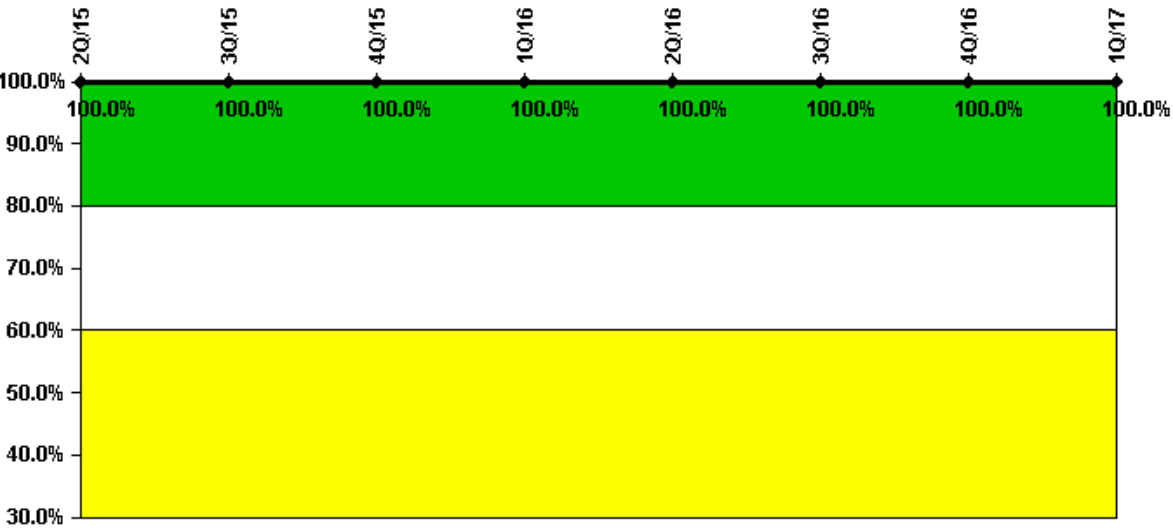
Drill/Exercise Performance	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful opportunities	71.0	146.0	28.0	26.0	62.0	103.0	93.0	23.0
Total opportunities	72.0	147.0	28.0	26.0	63.0	105.0	94.0	24.0

Indicator value 98.6% 98.9% 98.8% 98.9% 99.0% 98.9% 98.7% 98.7%

TOP

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

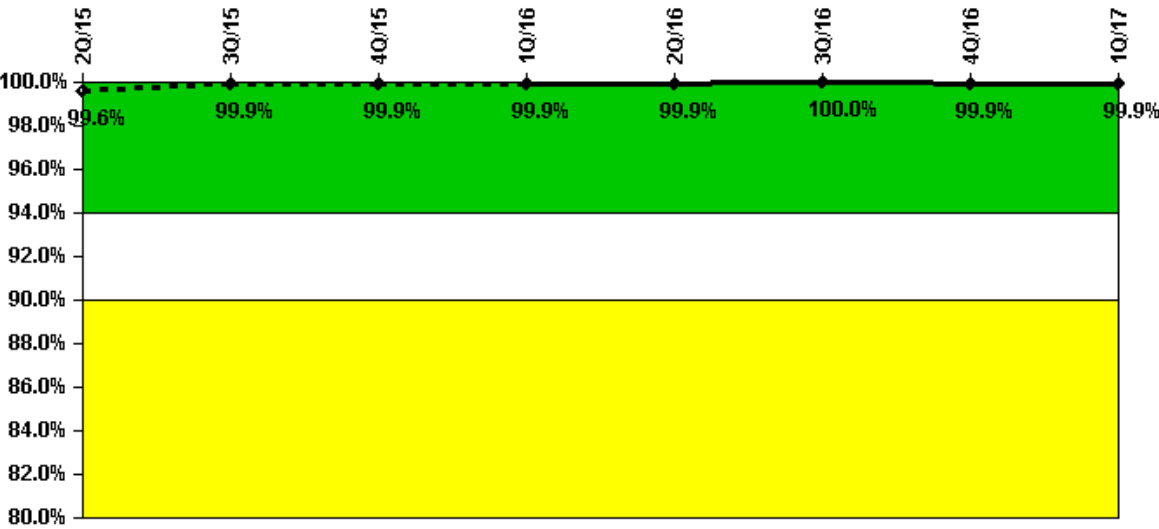
ERO Drill Participation	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Participating Key personnel	104.0	105.0	103.0	103.0	101.0	100.0	104.0	108.0
Total Key personnel	104.0	105.0	103.0	103.0	101.0	100.0	104.0	108.0

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

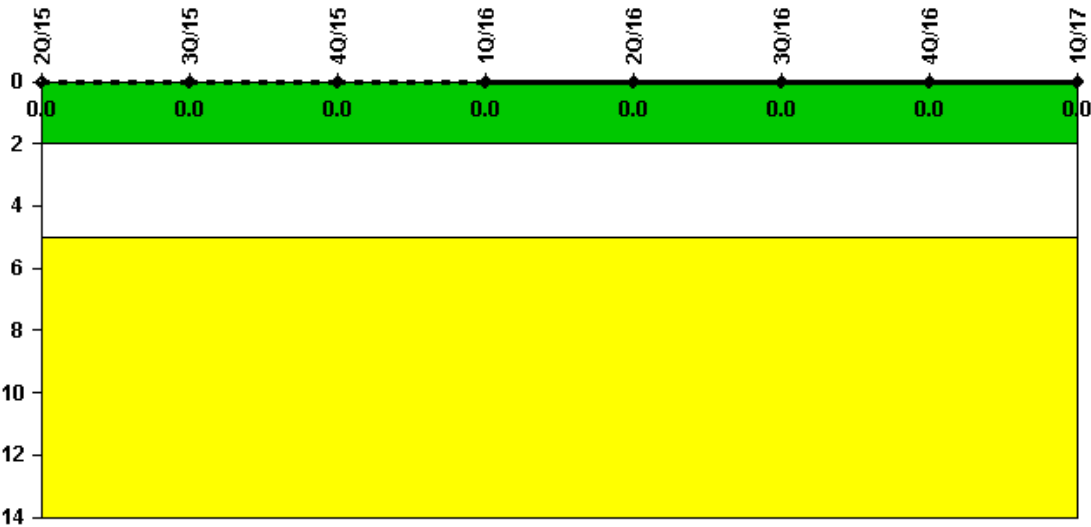
Alert & Notification System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful siren-tests	917	1105	1046	1188	1050	1081	1201	1203
Total sirens-tests	917	1109	1046	1188	1050	1081	1204	1204

Indicator value 99.6% 99.9% 99.9% 99.9% 99.9% 100.0% 99.9% 99.9%

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Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

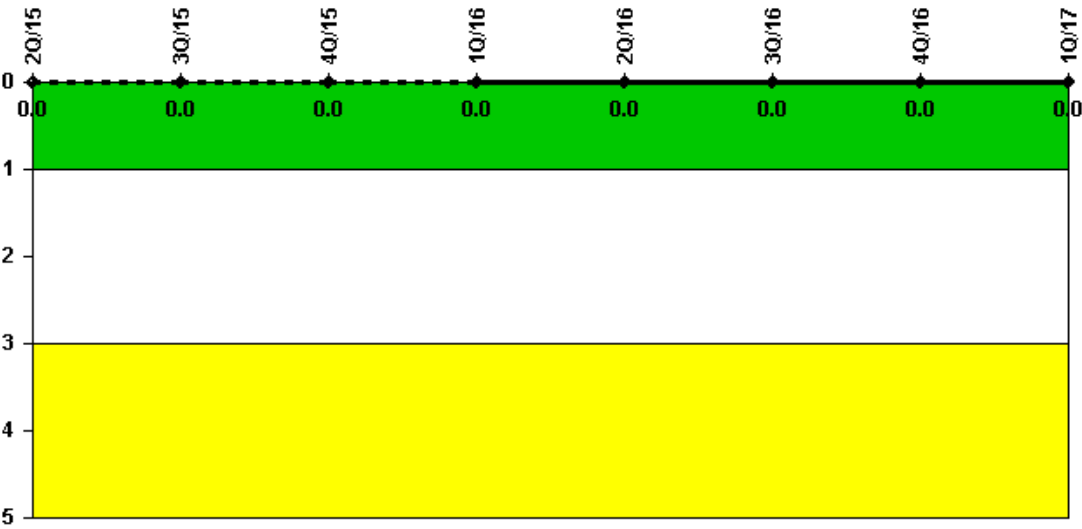
Notes

Occupational Exposure Control Effectiveness	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

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Licensee Comments: none

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

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Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: May 5, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries> Indian Point 2 > Quarterly Performance Indicators

Indian Point 2 – Quarterly Performance Indicators

2Q/2017 Performance Indicators

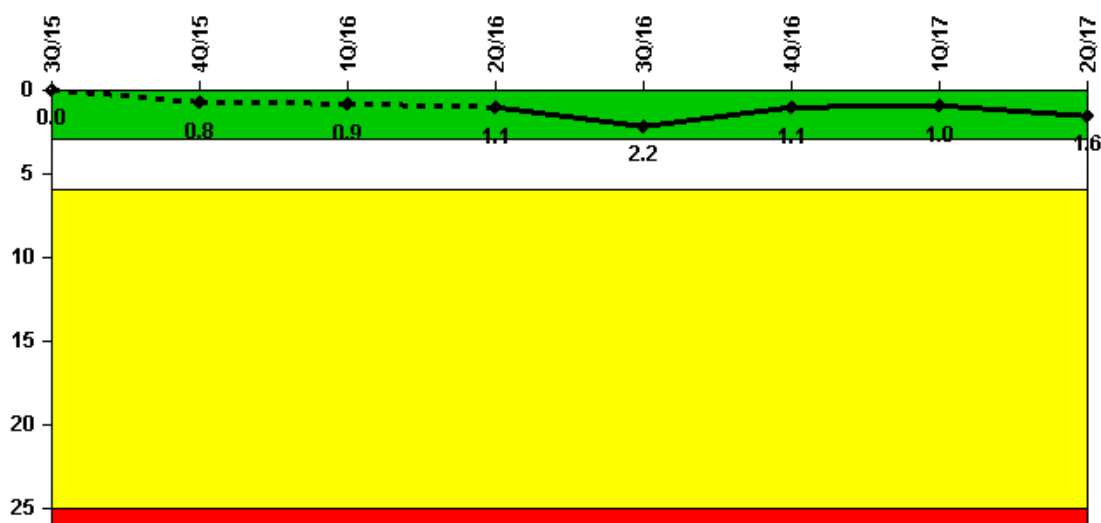
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- 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	0	1.0	0	0	1.0	0	0	1.0
Critical hours	2208.0	2154.3	1584.0	319.8	2189.0	2209.0	2159.0	2128.9

Indicator value	0	0.8	0.9	1.1	2.2	1.1	1.0	1.6

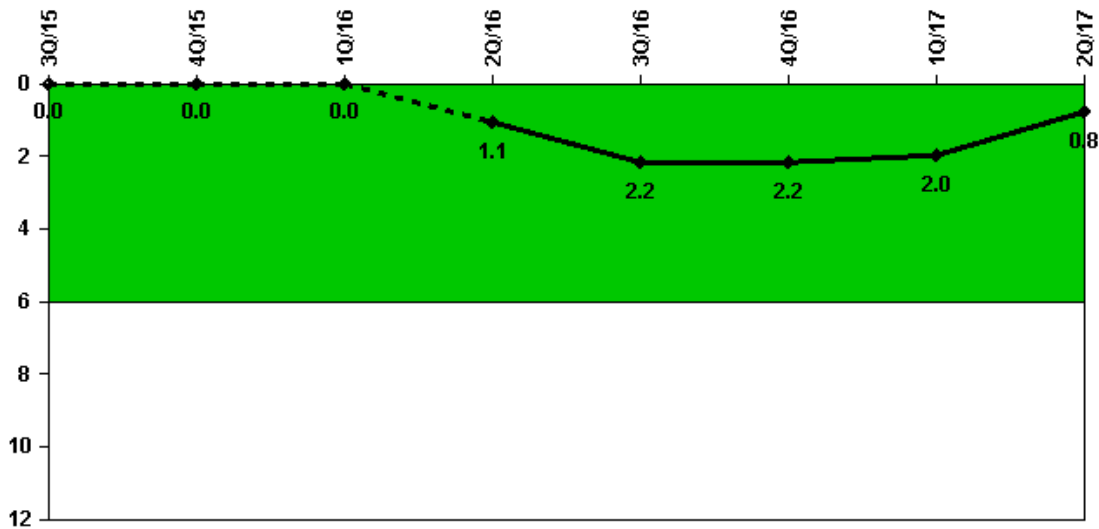
TOP

Licensee Comments:

3Q/16: On July 6, 2016, an automatic reactor trip was initiated during preparations for testing the reactor protection system logic train B actuation logic. LER-2016-009 reported this event on September 6, 2016.

4Q/15: On December 5, 2015, a manual reactor trip was initiated due to indications of multiple dropped control rods. Initiating event was a fault of Motor Control Center (MCC) 24-2H that caused the upstream supply breaker to open to clear the fault resulting in a loss of power to the operating backup power supply in Rod Control Cabinet 2BD with a degraded primary power supply. The loss of power to the Control Rod System caused the Control Rod stationary grippers to de-energize and rods inserted into the reactor core.

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	1.0	1.0	0	0	0
Critical hours	2208.0	2154.3	1584.0	319.8	2189.0	2209.0	2159.0	2128.9

Indicator value	0	0	0	1.1	2.2	2.2	2.0	0.8

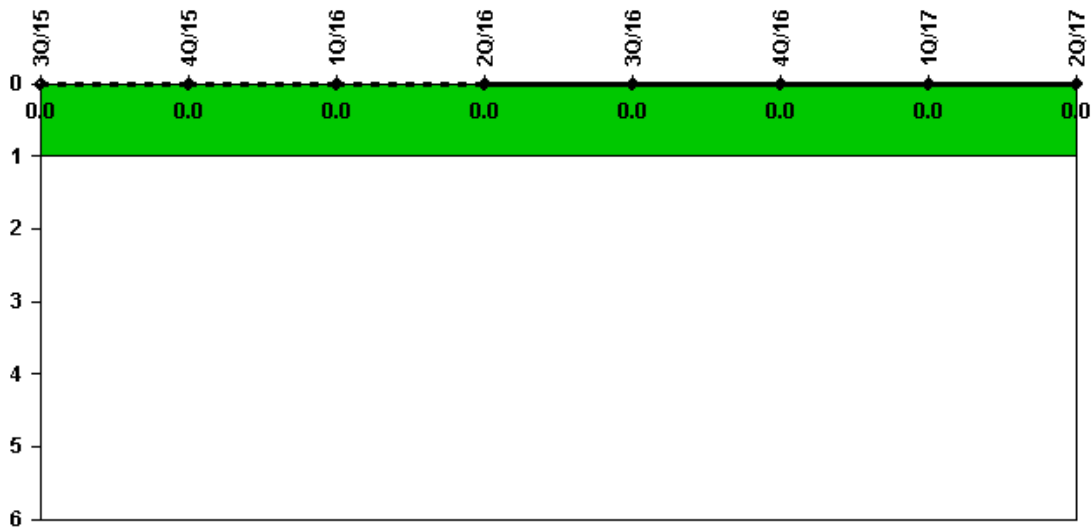
TOP

Licensee Comments:

3Q/16: On August 6, 2016, Heater Drain Tank (HDT) level controller failed causing both HDT discharge level control valves to fail open. HDT level lowered and both HDT pumps tripped at the low level setpoint. Operators rapidly reduced load to match steam flow and feedwater flow. During the rapid downpower, the RCS was borated and control rods were inserted. Critical parameters were maintained within limits. Power was stabilized at 78%.

2Q/16: On June 24, 2016, actions were initiated to commence reactor shutdown to comply the Technical Specification LCO 3.7.7 in order to repair a leaking weld on the 20 inch Service Water pipe to nozzle weld on the 21 Component Cooling Water Heat Exchanger. Entered Mode 3 at 07:59 hours, after normal plant shutdown and reactor trip per normal shutdown procedure 2-POP-3.1 (Plant Shutdown From 45% Power).

Unplanned Scrams with Complications



Thresholds: White > 1.0

Notes

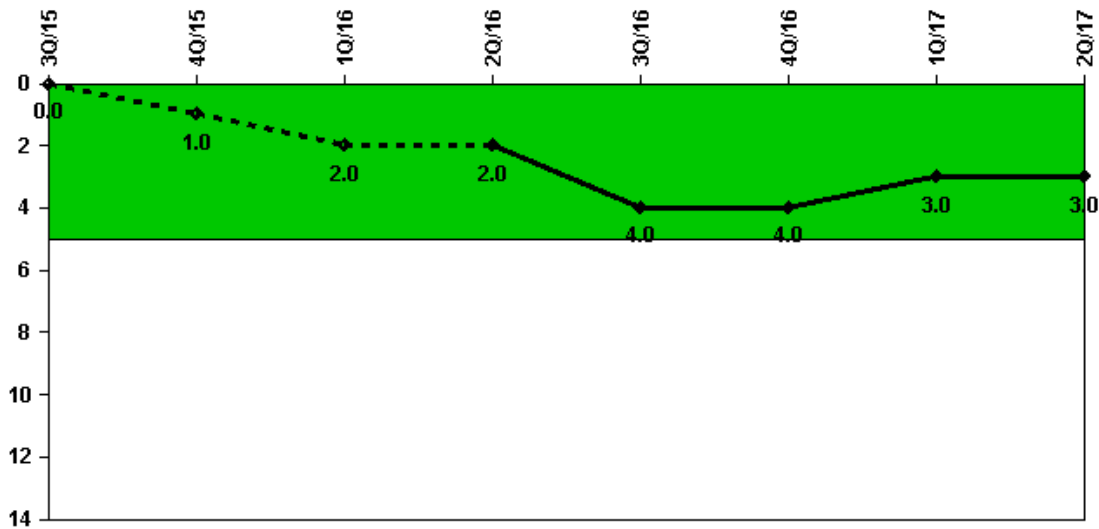
Unplanned Scrams with Complications 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17
 Scrams with complications 0 0 0 0 0 0 0 0

Indicator value 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0

TOP

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR) 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17

Safety System Functional Failures 0 1 1 0 2 1 0 0

Indicator value 0 1 2 2 4 4 3 3

TOP

Licensee Comments:

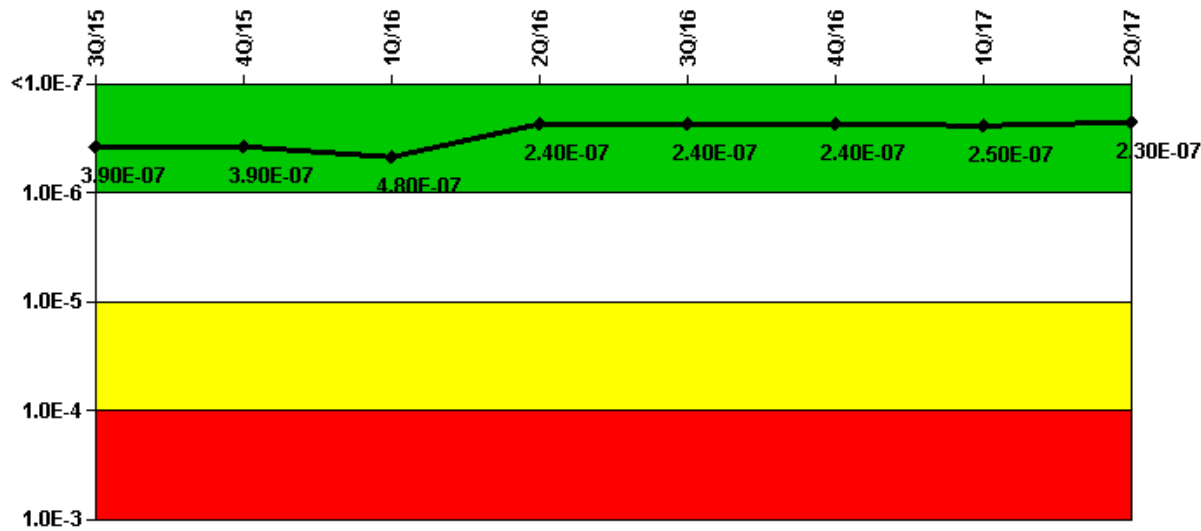
4Q/16: LER-2016-010 reported on December 21, 2016, a SSFF due to an inoperable containment caused by a through wall defect in a service water supply pipe elbow to the 24 fan cooler unit.

3Q/16: LER-2016-007 reported on August 9, 2016, a safety system functional failure after discovering in Mode 4 two open ECCS sump barrier gates. The condition could have prevented adequate post accident core cooling due to DBA debris blockage of the containment recirculation sump and/or the containment sump. TS requires the ECCS to be operable in Modes 1-4. The licensing and design basis of the ECCS credits flow channeling barriers installed in response to GL-2004-02. On September 29, 2016, a revision of LER-2015-001 was submitted reporting a SSFF in addition to the initial reporting as a TS prohibited condition. Additional Entergy reporting guidance determined that this event was also reportable as a SSFF.

1Q/16: LER-2015-004 reported on February 18, 2016, a SSFF due to an inoperable containment caused by a flawed SW pipe elbow on the 21 FCU motor cooler return pipe.

4Q/15: LER-2015-002 reported a SSFF on October 19, 2015, due to fuses for the Residual Heat Removal Heat Exchanger outlet valves that would not remain operable under degraded voltage conditions.

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	8.74E-08	8.64E-08	1.02E-07	8.06E-08	7.31E-08	7.10E-08	6.43E-08	3.12E-08
URI (ΔCDF)	3.01E-07	3.02E-07	3.82E-07	1.59E-07	1.62E-07	1.67E-07	1.86E-07	1.98E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.90E-07	3.90E-07	4.80E-07	2.40E-07	2.40E-07	2.40E-07	2.50E-07	2.30E-07

▲ TOP

Licensee Comments:

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs).

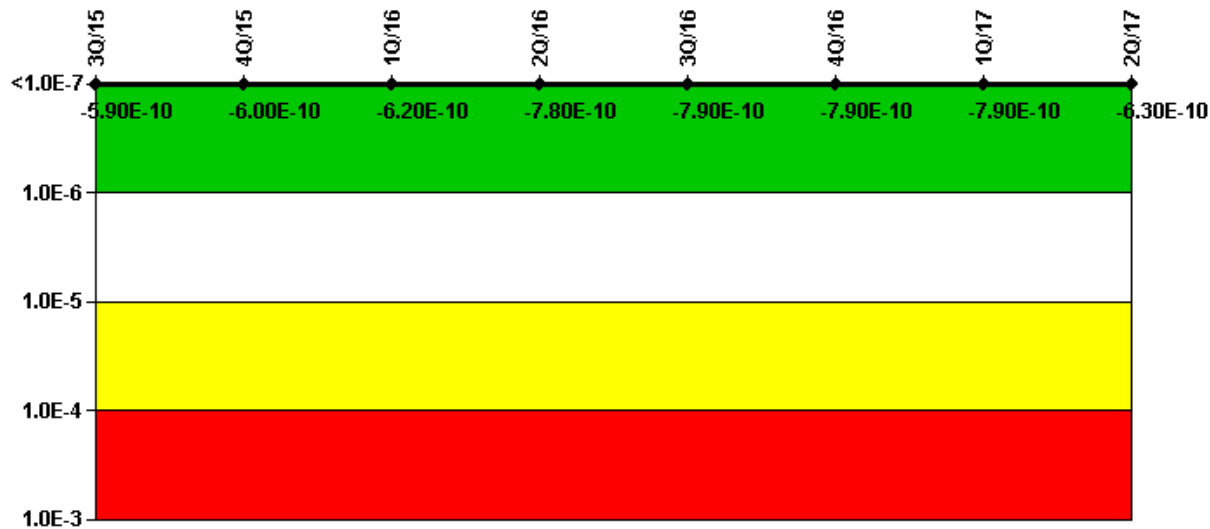
1Q/16: Load failure of 23 EDG recorded on 3/7/16 report # 321856 due to a degraded automatic voltage regulator.

1Q/16: Load failure of 23 EDG recorded on 3/7/16 report # 321856 due to a degraded automatic voltage regulator.

3Q/15: 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

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)	-1.41E-10	-1.51E-10	-1.46E-10	-3.14E-10	-3.27E-10	-3.27E-10	-3.29E-10	-2.53E-10
URI (ΔCDF)	-4.51E-10	-4.53E-10	-4.75E-10	-4.69E-10	-4.60E-10	-4.60E-10	-4.62E-10	-3.77E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.90E-10	-6.00E-10	-6.20E-10	-7.80E-10	-7.90E-10	-7.90E-10	-7.90E-10	-6.30E-10

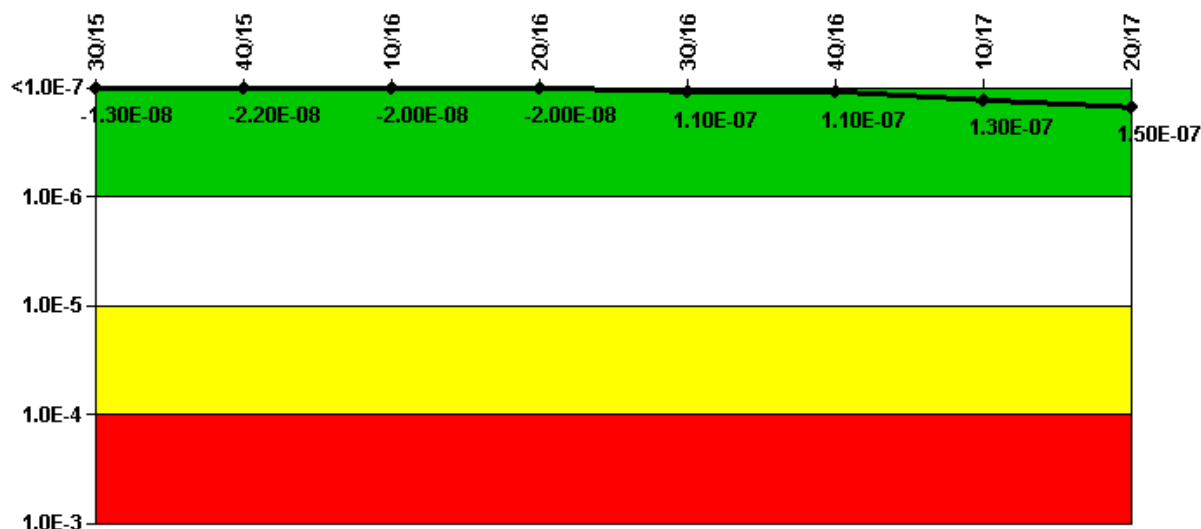
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Licensee Comments:

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs).

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

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)	1.40E-08	6.84E-09	1.05E-08	1.24E-08	1.56E-08	1.79E-08	2.52E-08	2.71E-08
URI (ΔCDF)	-2.73E-08	-2.84E-08	-3.07E-08	-3.22E-08	9.18E-08	9.20E-08	1.07E-07	1.19E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-08	-2.20E-08	-2.00E-08	-2.00E-08	1.10E-07	1.10E-07	1.30E-07	1.50E-07

TOP

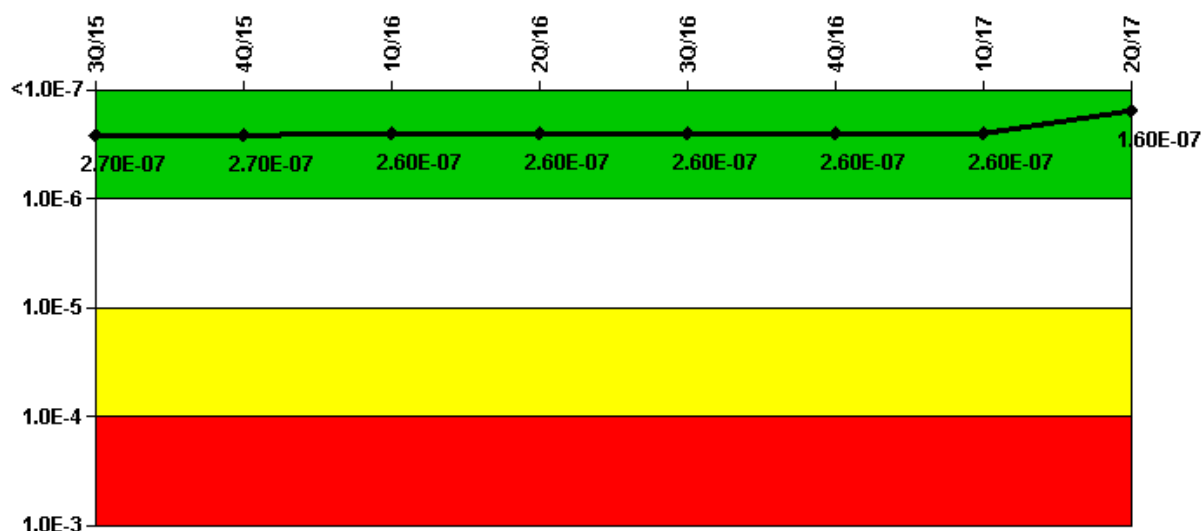
Licensee Comments:

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs).

3Q/15: 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-3.99E-09	-4.26E-09	-4.13E-09	-8.89E-09	-8.26E-09	-9.38E-09	-9.30E-09	-5.70E-09
URI (ΔCDF)	2.70E-07	2.70E-07	2.67E-07	2.65E-07	2.65E-07	2.65E-07	2.69E-07	1.62E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.70E-07	2.70E-07	2.60E-07	2.60E-07	2.60E-07	2.60E-07	2.60E-07	1.60E-07

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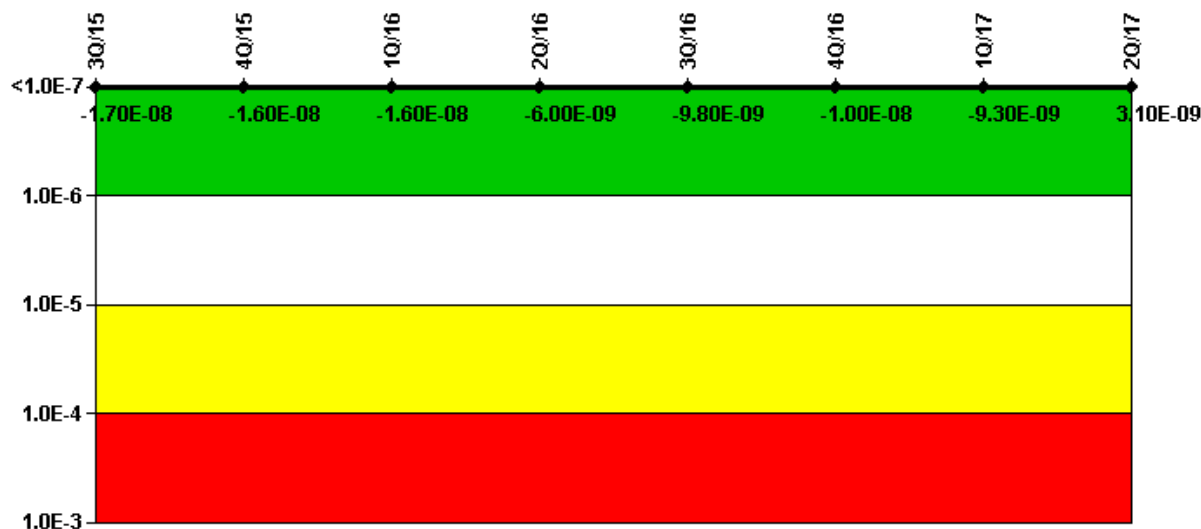
Licensee Comments:

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs).

3Q/15: The planned unavailability hours changed for the 21 and 22 RHR pump (0.0 hrs to 0.8 hrs) to reflect the final OE that the valves were inoperable as a result of the response to a CDBI inspection question and a final determination that the normally closed 21 and 22 RHR Pumps Heat Exchanger outlet valves (MOV-746 & MOV-747) would not adequately operate under degraded voltage conditions as a result of inadequate fuses. This resulted in both trains of RHR being considered inoperable. LER-2015-002 reported this event as a safety system functional failure. On December 29, 2015, ICES input data for the RHR event was determined to be complete which included a Maintenance Rule functional failure and MSPI safety system functional failure of both RHR Hx outlet valves. The ICES report was completed in ICES and initiated for review by INPO December 29, 2015. This action caused MSPI to be recalculated.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes made were to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

Mitigating Systems Performance Index, Cooling Water Systems

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	3.42E-09	3.50E-09	3.67E-09	1.43E-08	1.07E-08	1.08E-08	1.12E-08	1.22E-08
URI (ΔCDF)	-2.07E-08	-1.95E-08	-2.02E-08	-2.03E-08	-2.06E-08	-2.10E-08	-2.04E-08	-9.10E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-08	-1.60E-08	-1.60E-08	-6.00E-09	-9.80E-09	-1.00E-08	-9.30E-09	3.10E-09

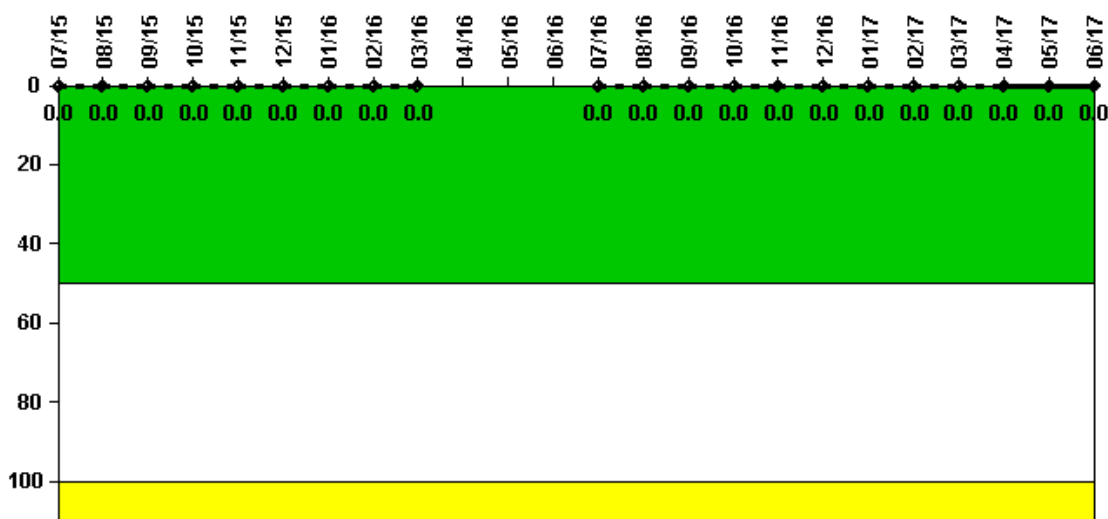
TOP

Licensee Comments:

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs).

3Q/15: The September 2015 CCWP demands and run hours were revised. 21 CCP demands changed from 0 to 1, run hours changed from 0.0 to 0.58; 22 CCP demands changed from 0 to 1, run hours changed from 720.0 to 719.48; 23 CCP demands changed from 0 to 1; run hours changed from 720.0 to 719.47.

3Q/15: Changed PRA Parameter(s). 3Q15 report includes changes to the Unit 2 MSPI PSA parameters as a result of a PRA model interim update approved on May 6, 2015 from the EDG MSPI Margin Improvement Plan. Changes were made to Monitored Component PRA information to be effective July 1, 2015. Also included were changes in the plant specific EAC planned baseline unavailability in MSPI.

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	0.000206	0.000202	0.000203	0.000216	0.000260	0.000223	0.000271	0.000245	0.000150	N/A	N/A	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	N/A	N/A	N/A

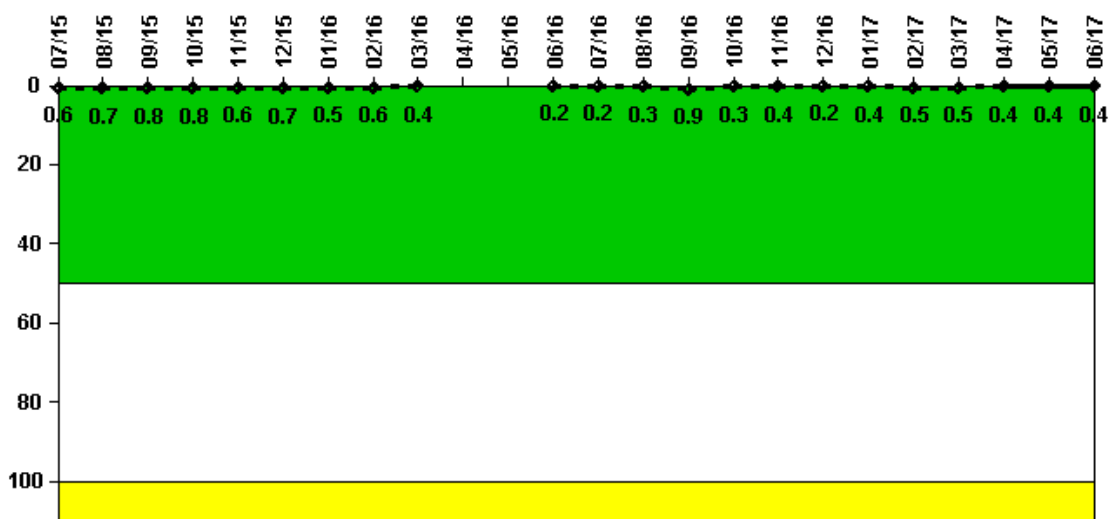
Reactor Coolant System Activity	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17
Maximum activity	0.000134	0.000131	0.000150	0.000126	0.000145	0.000139	0.000150	0.000150	0.000168	0.000144	0.000146	0.000186
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

TOP

Licensee Comments:

6/16: Plant started refueling outage 3/7/16. No RCS coolant activity calculated.

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	0.060	0.070	0.080	0.080	0.060	0.070	0.050	0.060	0.040	N/A	N/A	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

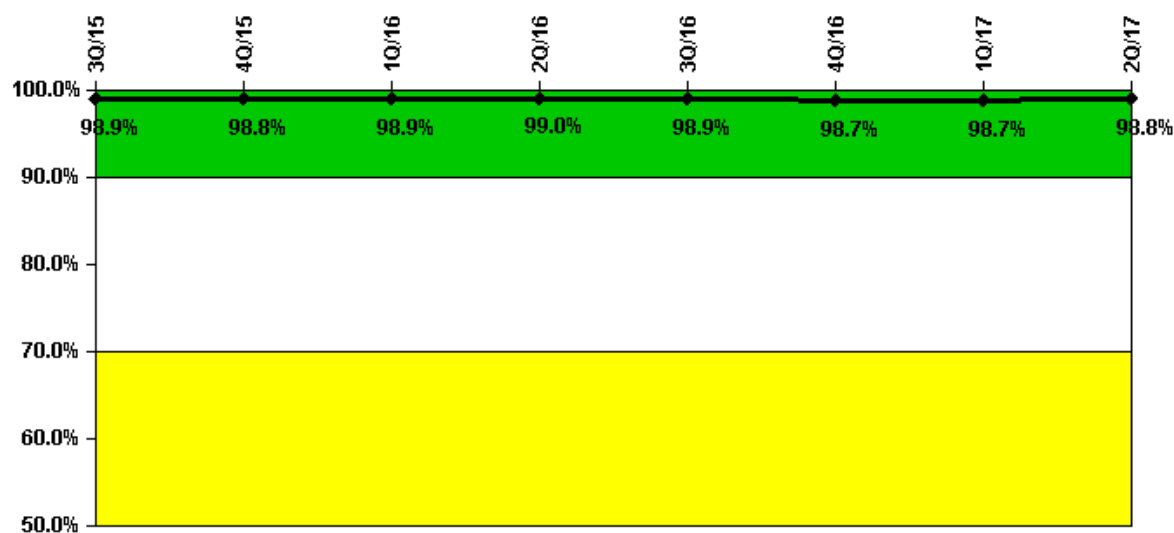
Indicator value	0.6	0.7	0.8	0.8	0.6	0.7	0.5	0.6	0.4	N/A	N/A	0.2
Reactor Coolant System Leakage	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17
Maximum leakage	0.024	0.030	0.090	0.030	0.040	0.020	0.040	0.050	0.050	0.040	0.040	0.040
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Indicator value	0.2	0.3	0.9	0.3	0.4	0.2	0.4	0.5	0.5	0.4	0.4	0.4

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Licensee Comments:

6/16: Plant started refueling outage which was extended due to degraded RV baffle-former bolts. Unit startup was 6/16/16. No RCS Leak Rate was determined during outage due to plant in outage.

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

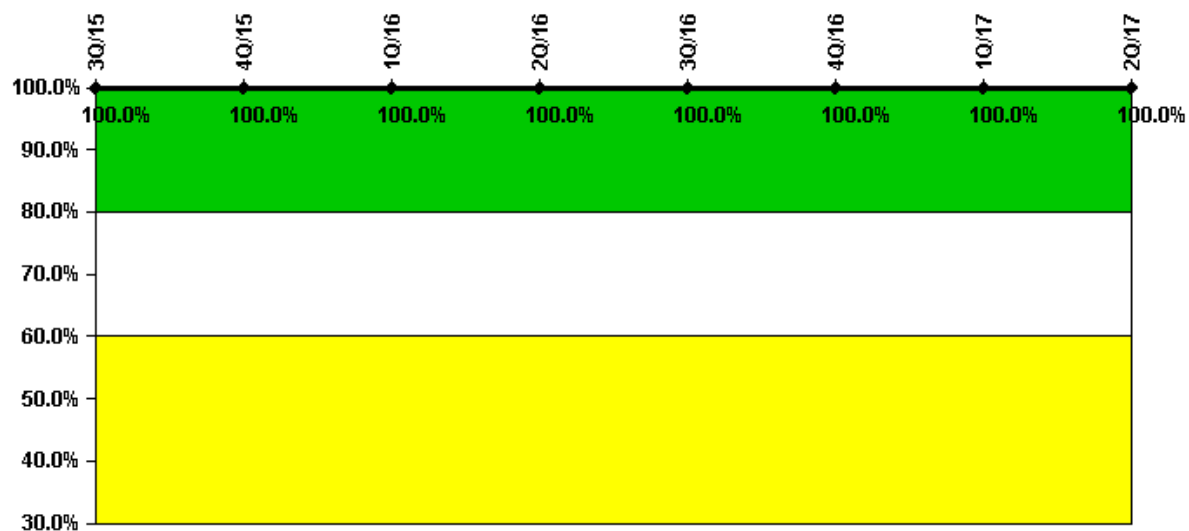
Notes

Drill/Exercise Performance	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful opportunities	146.0	28.0	26.0	62.0	103.0	93.0	23.0	18.0
Total opportunities	147.0	28.0	26.0	63.0	105.0	94.0	24.0	18.0

Indicator value **98.9% 98.8% 98.9% 99.0% 98.9% 98.7% 98.7% 98.8%**

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Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

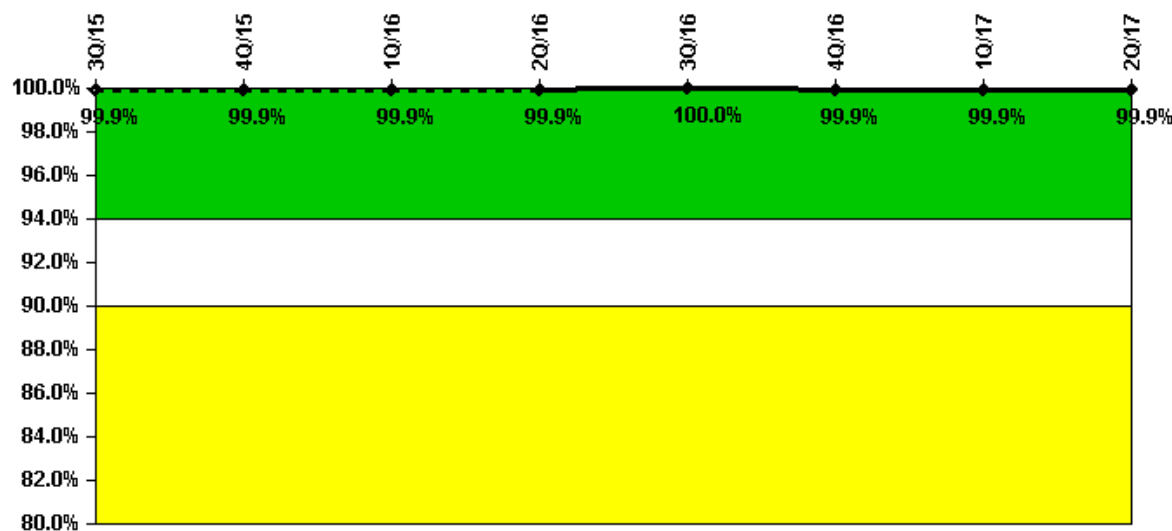
ERO Drill Participation	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Participating Key personnel	105.0	103.0	103.0	101.0	100.0	104.0	108.0	105.0
Total Key personnel	105.0	103.0	103.0	101.0	100.0	104.0	108.0	105.0

Indicator value **100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%**

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Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

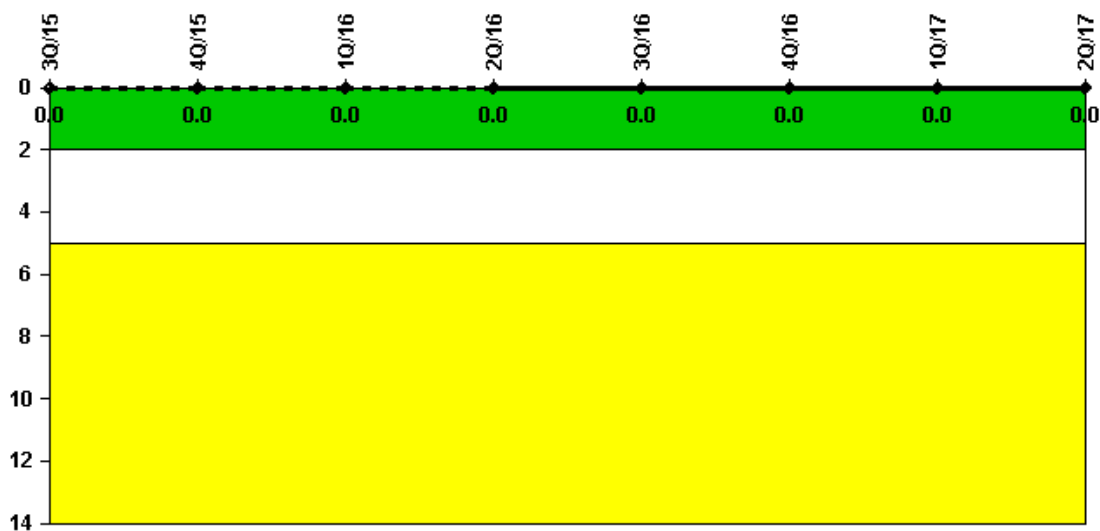
Alert & Notification System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful siren-tests	1105	1046	1188	1050	1081	1201	1203	1203
Total sirens-tests	1109	1046	1188	1050	1081	1204	1204	1204

Indicator value 99.9% 99.9% 99.9% 99.9% 100.0% 99.9% 99.9% 99.9%

TOP

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

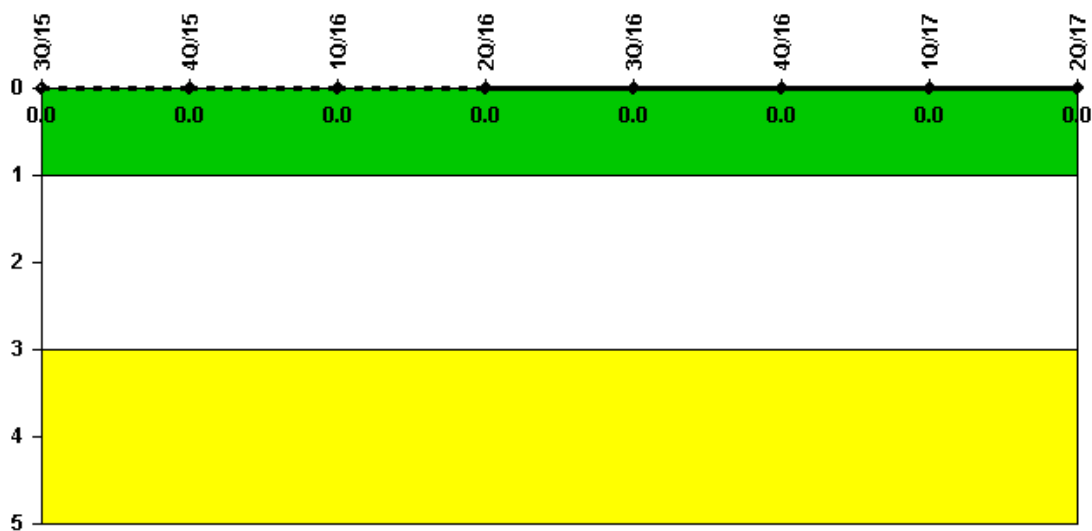
Occupational Exposure Control Effectiveness 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17

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

▲ TOP

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17

RETS/ODCM occurrences 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

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Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: July 26, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017



[Home](#) > [Nuclear Reactors](#) > [Operating Reactors](#) > [Reactor Oversight Process](#) > [Plant Summaries](#)> [Indian Point 2](#) > [Quarterly Performance Indicators](#)

Indian Point 2 – Quarterly Performance Indicators

3Q/2017 Performance Indicators

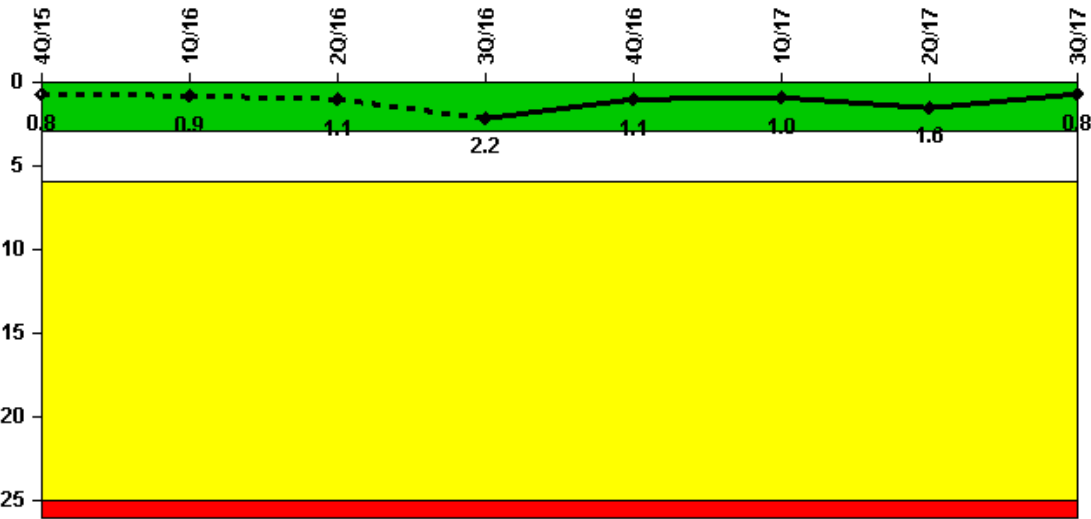
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- [Unplanned Scrams \(IE01\)](#)
- [Unplanned Power Changes per 7000 Critical Hours \(IE03\)](#)
- [Unplanned Scrams with Complications \(IE04\)](#)
- [Safety System Functional Failures \(MS05\)](#)
- [Emergency AC Power Systems \(MS06\)](#)
- [High Pressure Injection Systems \(MS07\)](#)
- [Heat Removal Systems \(MS08\)](#)
- [Residual Heat Removal Systems \(MS09\)](#)
- [Cooling Water Systems \(MS10\)](#)
- [Reactor Coolant System Activity \(BI01\)](#)
- [Reactor Coolant System Leakage \(BI02\)](#)
- [Drill/Exercise Performance \(EP01\)](#)
- [Emergency Response Organization Drill Participation \(EP02\)](#)
- [Alert and Notification System Reliability \(EP03\)](#)
- [Occupational Exposure Control Effectiveness \(OR01\)](#)
- [RETS/OCDM Radiological Effluent Occurrence \(PR01\)](#)
- [Protected Area Equipment \(PP01\)](#)

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned scrams	1.0	0	0	1.0	0	0	1.0	0
Critical hours	2154.3	1584.0	319.8	2189.0	2209.0	2159.0	2128.9	2171.0
Indicator value	0.8	0.9	1.1	2.2	1.1	1.0	1.6	0.8

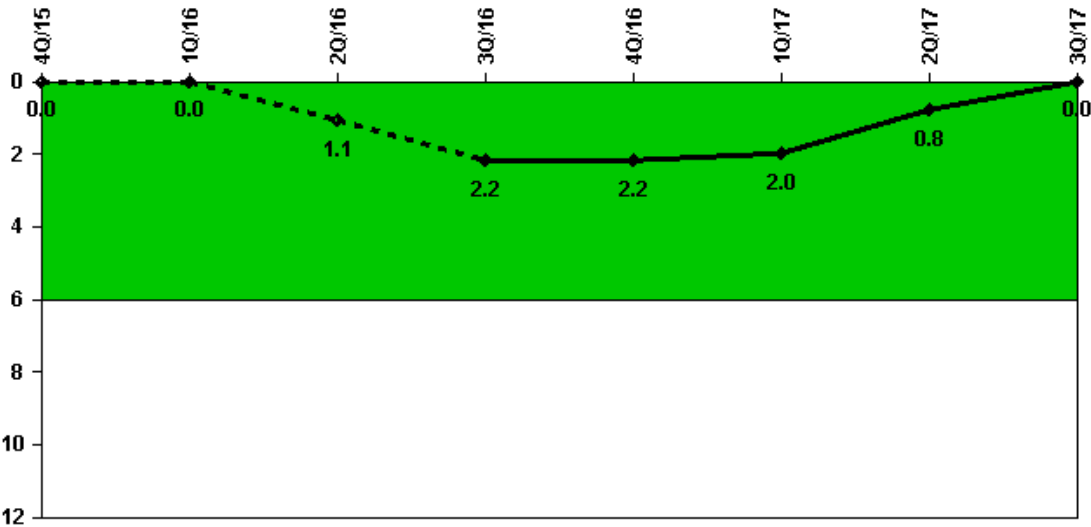
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Licensee Comments:

3Q/16: On July 6, 2016, an automatic reactor trip was initiated during preparations for testing the reactor protection system logic train B actuation logic. LER-2016-009 reported this event on September 6, 2016.

4Q/15: On December 5, 2015, a manual reactor trip was initiated due to indications of multiple dropped control rods. Initiating event was a fault of Motor Control Center (MCC) 24-2H that caused the upstream supply breaker to open to clear the fault resulting in a loss of power to the operating backup power supply in Rod Control Cabinet 2BD with a degraded primary power supply. The loss of power to the Control Rod System caused the Control Rod stationary grippers to de-energize and rods inserted into the reactor core.

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	1.0	1.0	0	0	0	0
Critical hours	2154.3	1584.0	319.8	2189.0	2209.0	2159.0	2128.9	2171.0
Indicator value	0	0	1.1	2.2	2.2	2.0	0.8	0

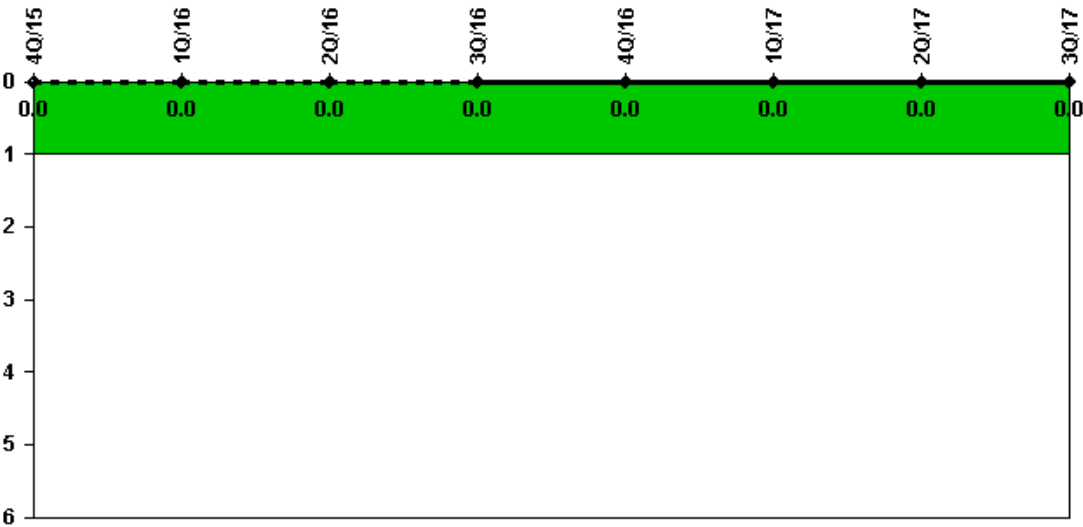
TOP

Licensee Comments:

3Q/16: On August 6, 2016, Heater Drain Tank (HDT) level controller failed causing both HDT discharge level control valves to fail open. HDT level lowered and both HDT pumps tripped at the low level setpoint. Operators rapidly reduced load to match steam flow and feedwater flow. During the rapid downpower, the RCS was borated and control rods were inserted. Critical parameters were maintained within limits. Power was stabilized at 78%.

2Q/16: On June 24, 2016, actions were initiated to commence reactor shutdown to comply the Technical Specification LCO 3.7.7 in order to repair a leaking weld on the 20 inch Service Water pipe to nozzle weld on the 21 Component Cooling Water Heat Exchanger. Entered Mode 3 at 07:59 hours, after normal plant shutdown and reactor trip per normal shutdown procedure 2-POP-3.1 (Plant Shutdown From 45% Power).

Unplanned Scrams with Complications



Thresholds: White > 1.0

Notes

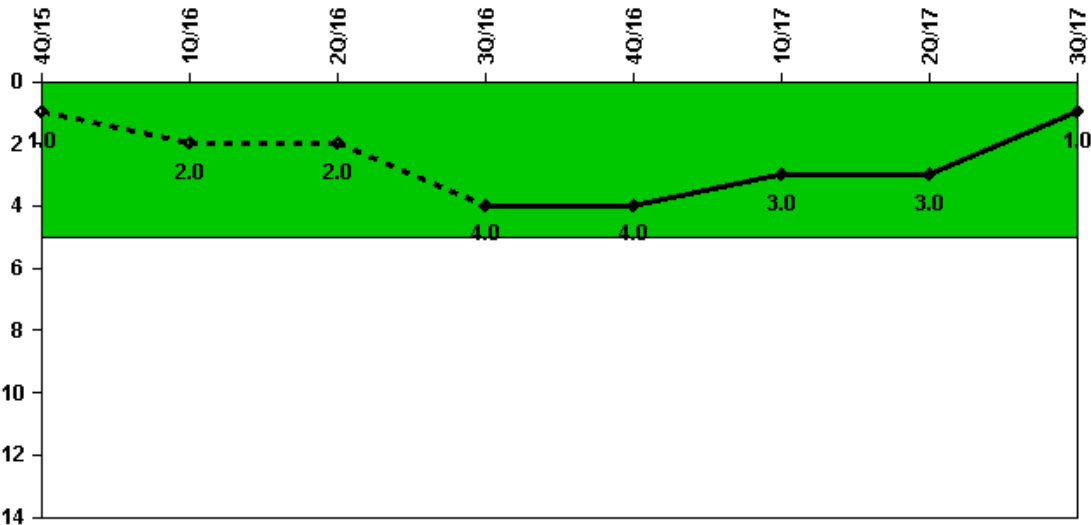
Unplanned Scrams with Complications	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Scrams with complications	0	0	0	0	0	0	0	0

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/151Q/162Q/163Q/164Q/161Q/172Q/173Q/17

Safety System Functional Failures 1 1 0 2 1 0 0 0

Indicator value 1 2 2 4 4 3 3 1

TOP

Licensee Comments:

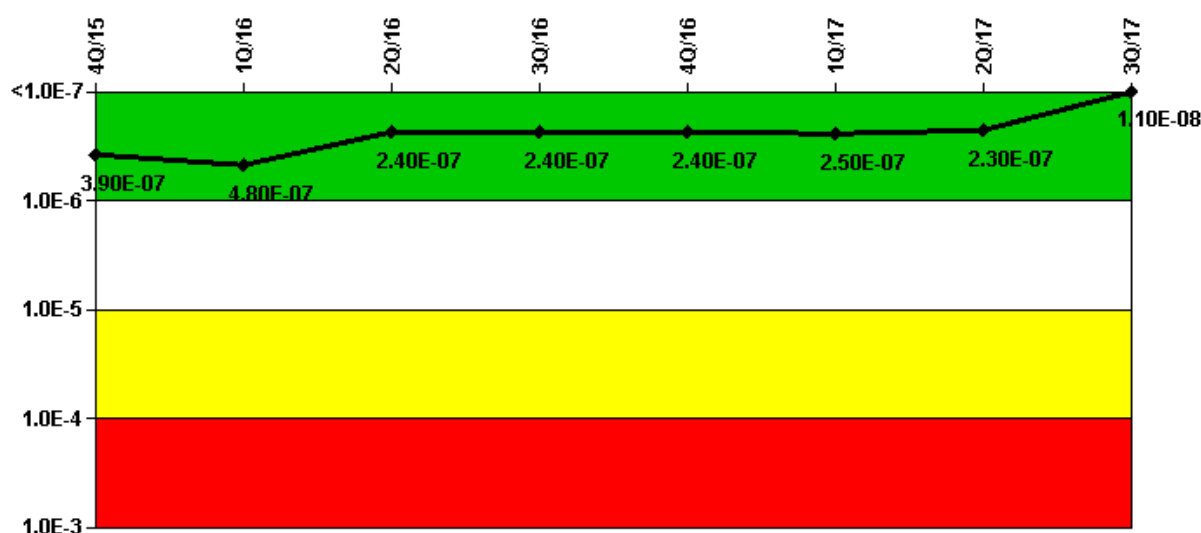
4Q/16: LER-2016-010 reported on December 21, 2016, a SSFF due to an inoperable containment caused by a through wall defect in a service water supply pipe elbow to the 24 fan cooler unit.

3Q/16: LER-2016-007 reported on August 9, 2016, a safety system functional failure after discovering in Mode 4 two open ECCS sump barrier gates. The condition could have prevented adequate post accident core cooling due to DBA debris blockage of the containment recirculation sump and/or the containment sump. TS requires the ECCS to be operable in Modes 1-4. The licensing and design basis of the ECCS credits flow channeling barriers installed in response to GL-2004-02. On September 29, 2016, a revision of LER-2015-001 was submitted reporting a SSFF in addition to the initial reporting as a TS prohibited condition. Additional Entergy reporting guidance determined that this event was also reportable as a SSFF.

1Q/16: LER-2015-004 reported on February 18, 2016, a SSFF due to an inoperable containment caused by a flawed SW pipe elbow on the 21 FCU motor cooler return pipe.

4Q/15: LER-2015-002 reported a SSFF on October 19, 2015, due to fuses for the Residual Heat Removal Heat Exchanger outlet valves that would not remain operable under degraded voltage conditions.

Mitigating Systems Performance Index, Emergency AC Power System



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

Notes

Mitigating Systems Performance Index, Emergency AC Power System

	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	8.64E-08	1.02E-07	8.06E-08	7.31E-08	7.10E-08	6.43E-08	3.17E-08	3.65E-08
URI (ΔCDF)	3.02E-07	3.82E-07	1.59E-07	1.62E-07	1.67E-07	1.86E-07	1.98E-07	-2.57E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.90E-07	4.80E-07	2.40E-07	2.40E-07	2.40E-07	2.50E-07	2.30E-07	1.10E-08

TOP

Licensee Comments:

3Q/17: Changes to 2nd Quarter 2017 Planned Unavailable Hours, Demands, and Run Hours as described in CR-IP2-2017-03203. No effect on color of performance indicator.

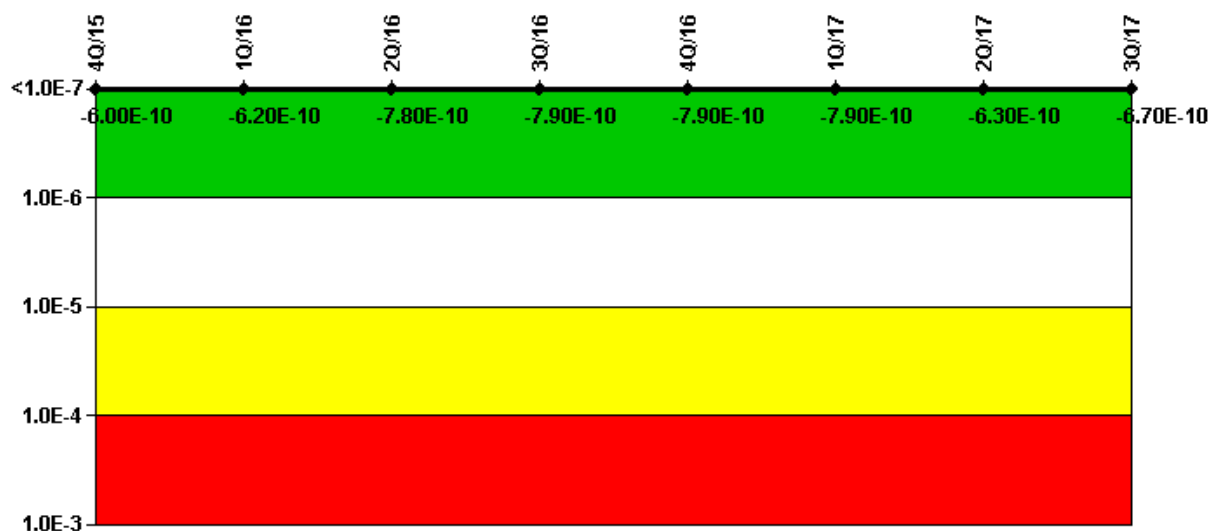
2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs).

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1Q/16: Load failure of 23 EDG recorded on 3/7/16 report # 321856 due to a degraded automatic voltage regulator.

1Q/16: Load failure of 23 EDG recorded on 3/7/16 report # 321856 due to a degraded automatic voltage regulator.

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

Mitigating Systems Performance Index, High Pressure Injection System

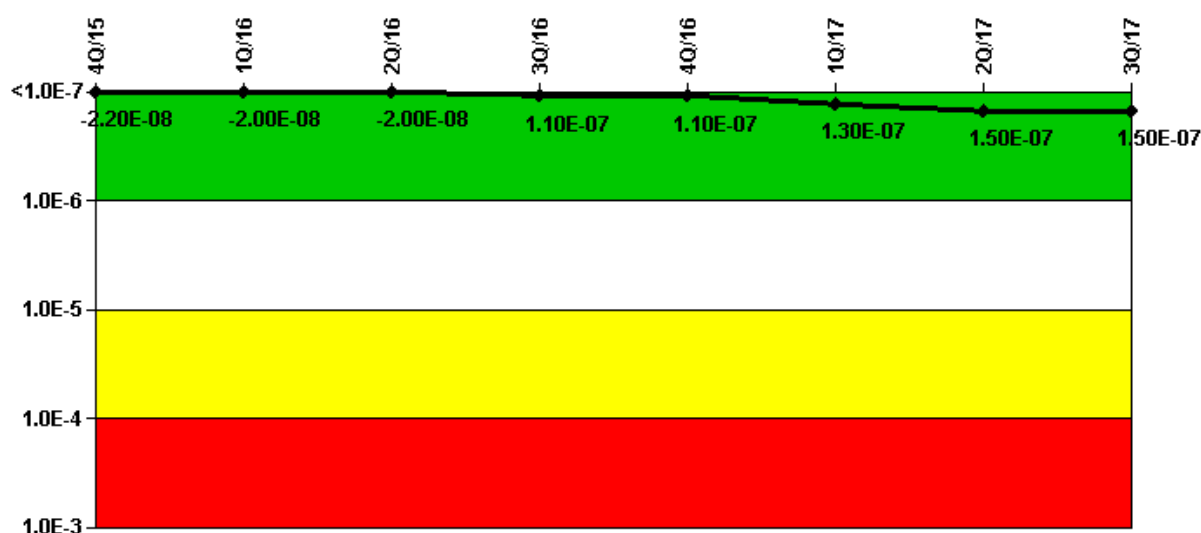
	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-1.51E-10	-1.46E-10	-3.14E-10	-3.27E-10	-3.27E-10	-3.29E-10	-2.53E-10	-2.81E-10
URI (ΔCDF)	-4.53E-10	-4.75E-10	-4.69E-10	-4.60E-10	-4.60E-10	-4.62E-10	-3.77E-10	-3.89E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.00E-10	-6.20E-10	-7.80E-10	-7.90E-10	-7.90E-10	-7.90E-10	-6.30E-10	-6.70E-10

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Licensee Comments:

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs).

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)	6.84E-09	1.05E-08	1.24E-08	1.56E-08	1.79E-08	2.52E-08	2.78E-08	2.63E-08
URI (ΔCDF)	-2.84E-08	-3.07E-08	-3.22E-08	9.18E-08	9.20E-08	1.07E-07	1.19E-07	1.27E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.20E-08	-2.00E-08	-2.00E-08	1.10E-07	1.10E-07	1.30E-07	1.50E-07	1.50E-07

▲ TOP

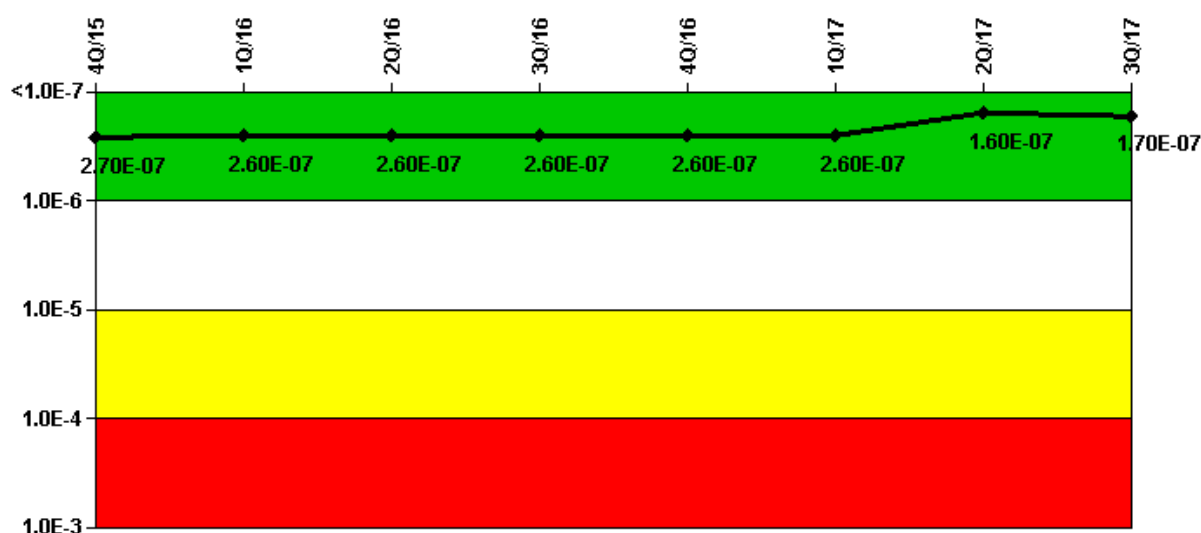
Licensee Comments:

3Q/17: Change to 2nd Quarter 2017 Planned Unavailable Hours as described in CR-IP2-2017-03169. No effect on color of performance indicator.

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs). Change to 2nd Quarter 2017 Planned Unavailable Hours as described in CR-IP2-2017-03169. No effect on color of performance indicator.

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs).

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)	-4.26E-09	-4.13E-09	-8.89E-09	-8.26E-09	-9.38E-09	-9.30E-09	-5.66E-09	-6.04E-09
URI (ΔCDF)	2.70E-07	2.67E-07	2.65E-07	2.65E-07	2.65E-07	2.69E-07	1.62E-07	1.73E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.70E-07	2.60E-07	2.60E-07	2.60E-07	2.60E-07	2.60E-07	1.60E-07	1.70E-07

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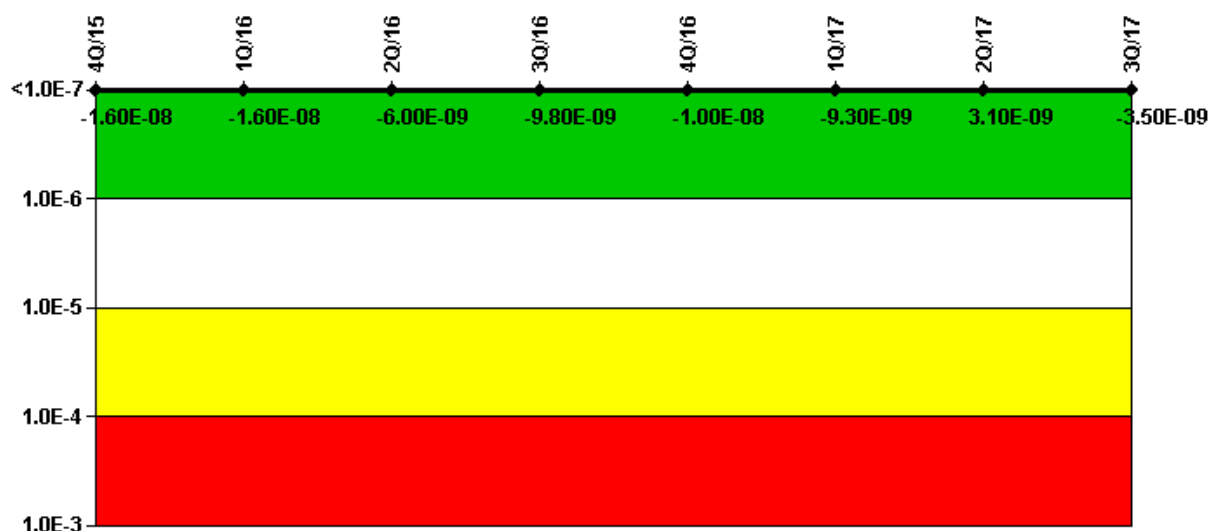
Licensee Comments:

3Q/17: Change to 2nd Quarter 2017 Planned Unavailable Hours as described in CR-IP2-2017-03196. No effect on color of performance indicator.

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs). Change to 2nd Quarter 2017 Planned Unavailable Hours as described in CR-IP2-2017-03196. No effect on color of performance indicator.

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs).

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)	3.50E-09	3.67E-09	1.43E-08	1.07E-08	1.08E-08	1.12E-08	1.22E-08	6.15E-09
URI (ΔCDF)	-1.95E-08	-2.02E-08	-2.03E-08	-2.06E-08	-2.10E-08	-2.04E-08	-9.10E-09	-9.68E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-6.00E-09	-9.80E-09	-1.00E-08	-9.30E-09	3.10E-09	-3.50E-09

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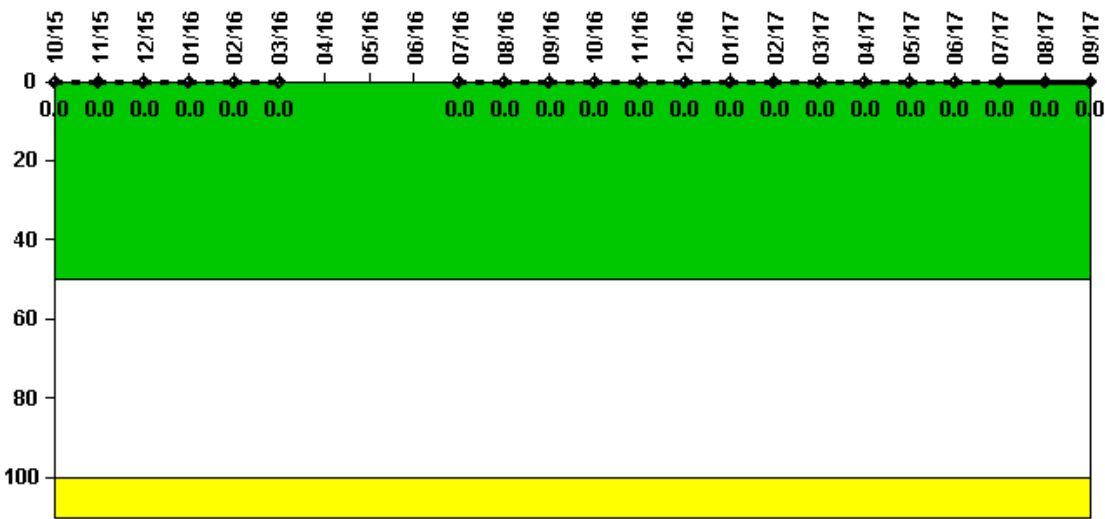
Licensee Comments:

3Q/17: Changes to 2nd Quarter 2017 Demands and Run Hours as described in CR-IP2-2017-03196. No effect on color of performance indicator.

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs). Changes to 2nd Quarter 2017 Demands and Run Hours as described in CR-IP2-2017-03196. No effect on color of performance indicator.

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

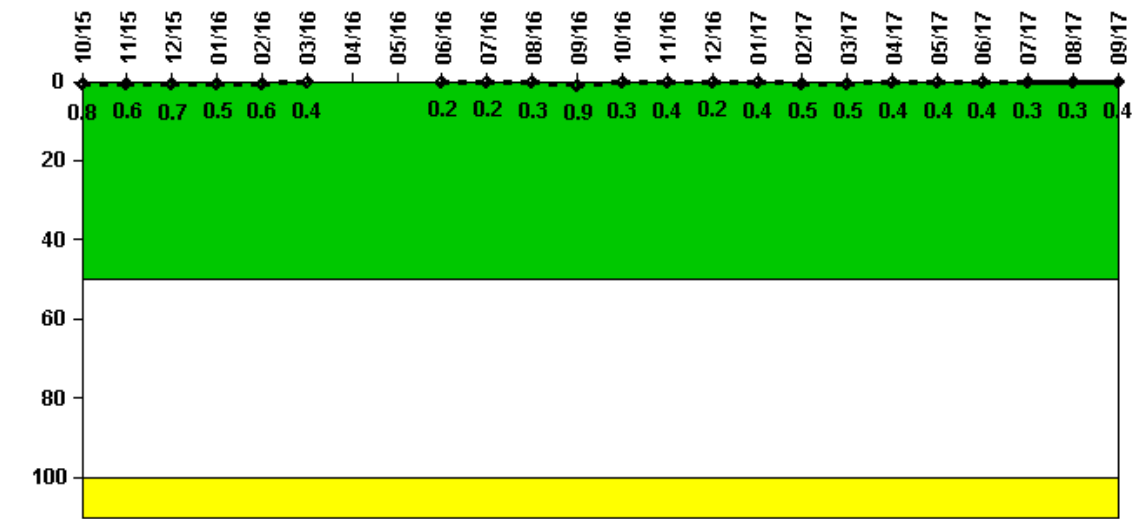
Reactor Coolant System												
Activity	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum activity	0.000216	0.000260	0.000223	0.000271	0.000245	0.000150	N/A	N/A	N/A	0.000134	0.000131	0.000150
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	N/A	N/A	N/A	0	0

Reactor Coolant System												
Activity	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum activity	0.000126	0.000145	0.000139	0.000150	0.000150	0.000168	0.000144	0.000146	0.000186	0.000168	0.000184	0.000170
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

TOP

Licensee Comments:
6/16: Plant started refueling outage 3/7/16. No RCS coolant activity calculated.

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	0.080	0.060	0.070	0.050	0.060	0.040	N/A	N/A	0.020	0.024	0.030	0.090
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

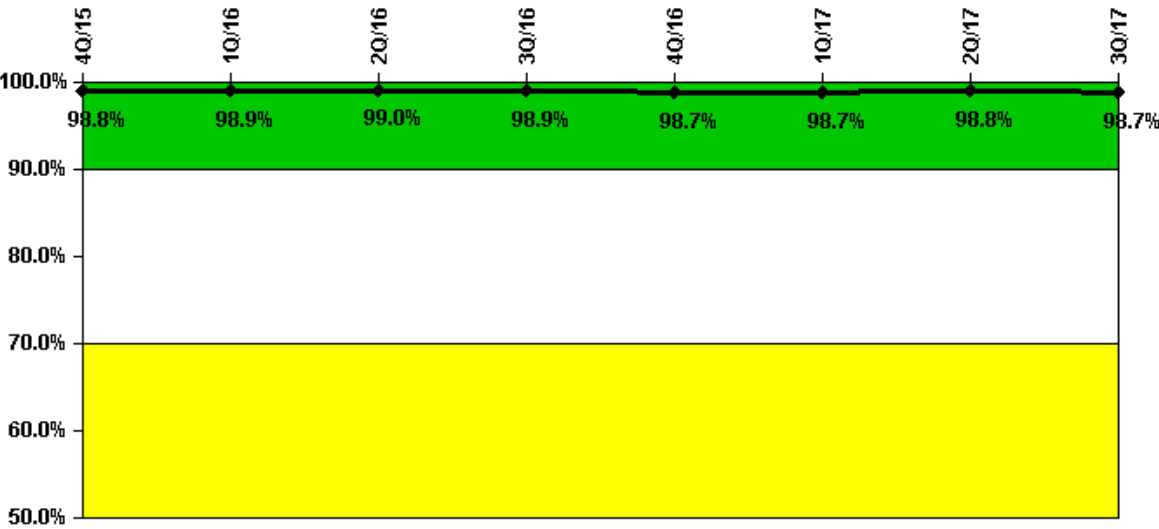
Indicator value	0.8	0.6	0.7	0.5	0.6	0.4	N/A	N/A	0.2	0.2	0.3	0.9
Reactor Coolant System Leakage	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum leakage	0.030	0.040	0.020	0.040	0.050	0.050	0.040	0.040	0.040	0.030	0.030	0.040
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

Indicator value	0.3	0.4	0.2	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.4

TOP

Licensee Comments:
6/16: Plant started refueling outage which was extended due to degraded RV baffle-former bolts. Unit startup was 6/16/16. No RCS Leal Rate was determined during outage due to plant in outage.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

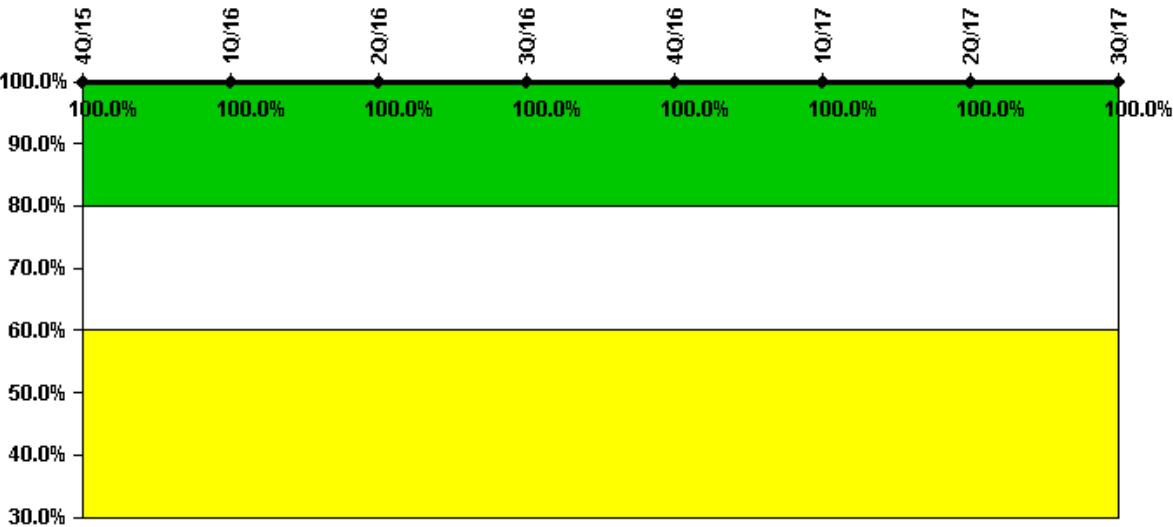
Drill/Exercise Performance	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful opportunities	28.0	26.0	62.0	103.0	93.0	23.0	18.0	98.0
Total opportunities	28.0	26.0	63.0	105.0	94.0	24.0	18.0	99.0

Indicator value 98.8% 98.9% 99.0% 98.9% 98.7% 98.7% 98.8% 98.7%

TOP

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

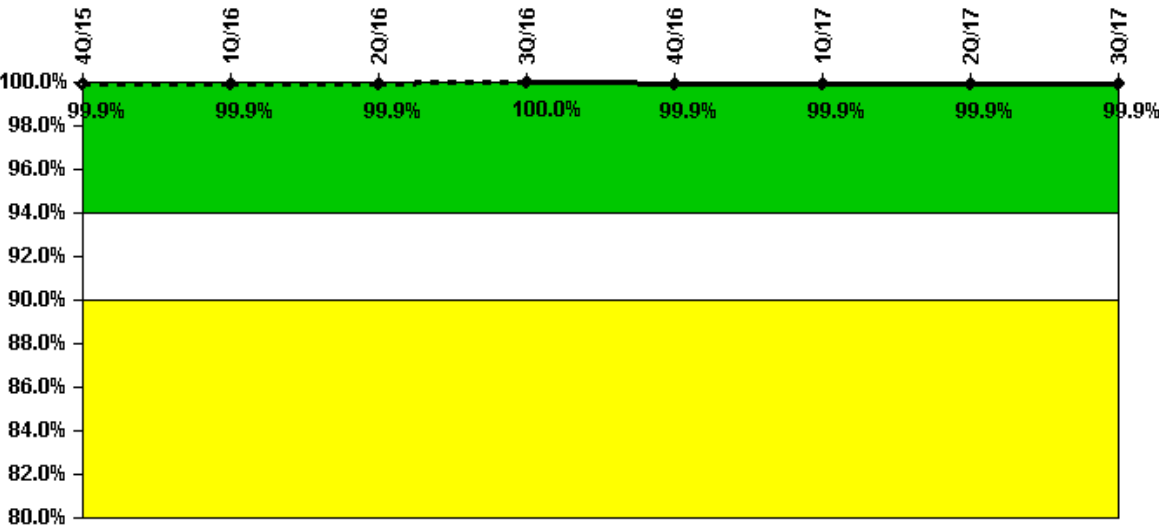
ERO Drill Participation	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Participating Key personnel	103.0	103.0	101.0	100.0	104.0	108.0	105.0	103.0
Total Key personnel	103.0	103.0	101.0	100.0	104.0	108.0	105.0	103.0

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%

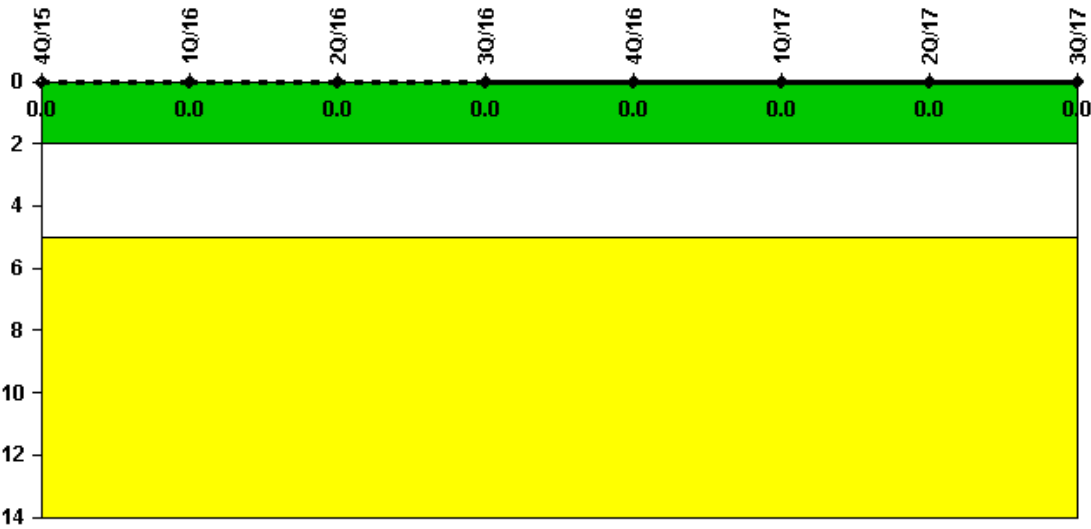
Notes

Alert & Notification System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful siren-tests	1046	1188	1050	1081	1201	1203	1203	1203
Total sirens-tests	1046	1188	1050	1081	1204	1204	1204	1204
Indicator value	99.9%	99.9%	99.9%	100.0%	99.9%	99.9%	99.9%	99.9%

TOP

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

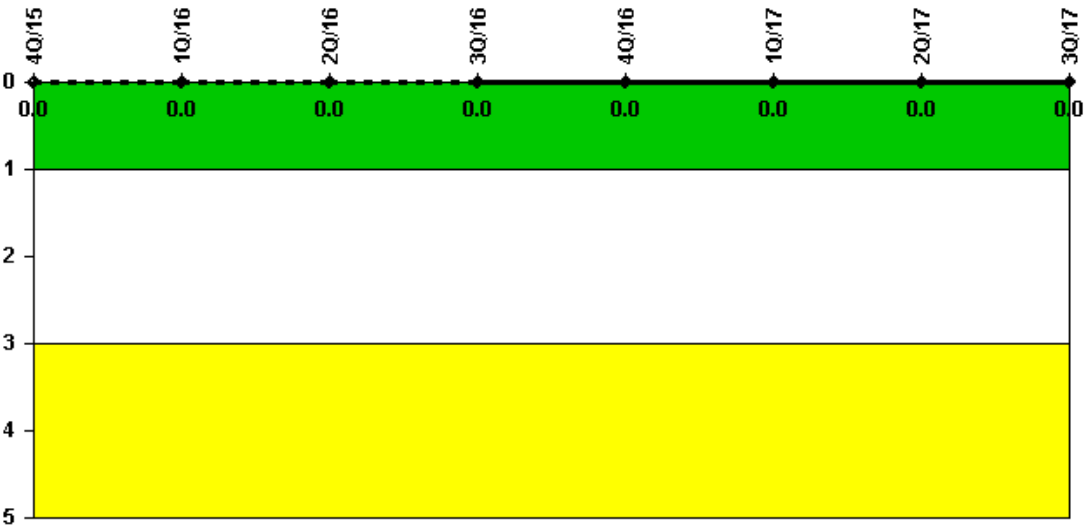
Notes

Occupational Exposure Control Effectiveness	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

TOP

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent4Q/151Q/162Q/163Q/164Q/161Q/172Q/173Q/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: October 31, 2017

Page Last Reviewed/Updated Monday, November 06, 2017



Home > Nuclear Reactors > Operating Reactors > Reactor Oversight Process > Plant Summaries> Indian Point 2 > Quarterly Performance Indicators

Indian Point 2 – Quarterly Performance Indicators

4Q/2017 Performance Indicators

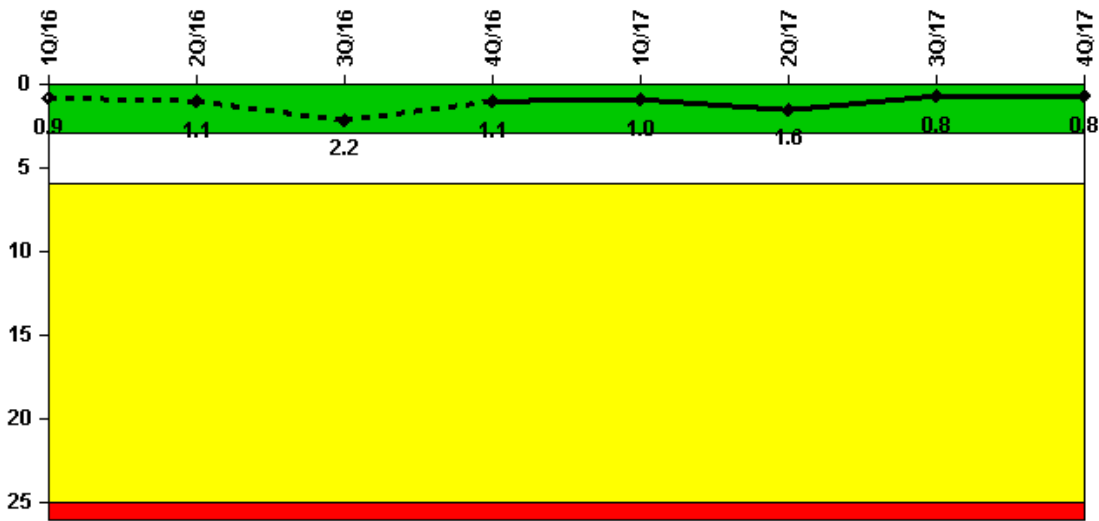
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/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	1.0	0	0	1.0	0	0
Critical hours	1584.0	319.8	2189.0	2209.0	2159.0	2128.9	2171.0	1872.6

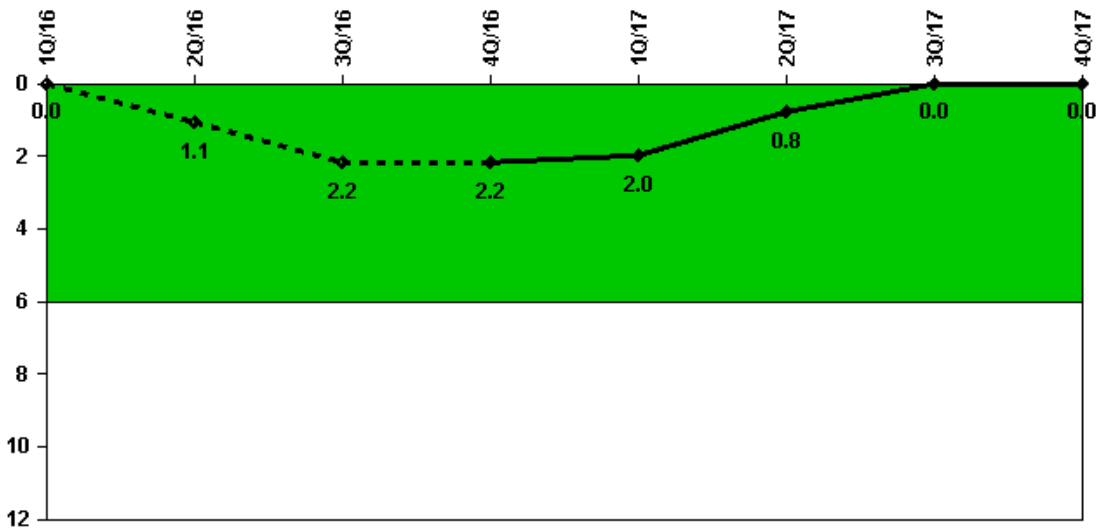
Indicator value	0.9	1.1	2.2	1.1	1.0	1.6	0.8	0.8

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Licensee Comments:

3Q/16: On July 6, 2016, an automatic reactor trip was initiated during preparations for testing the reactor protection system logic train B actuation logic. LER-2016-009 reported this event on September 6, 2016.

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	1.0	1.0	0	0	0	0	0
Critical hours	1584.0	319.8	2189.0	2209.0	2159.0	2128.9	2171.0	1872.6

Indicator value	0	1.1	2.2	2.2	2.0	0.8	0	0

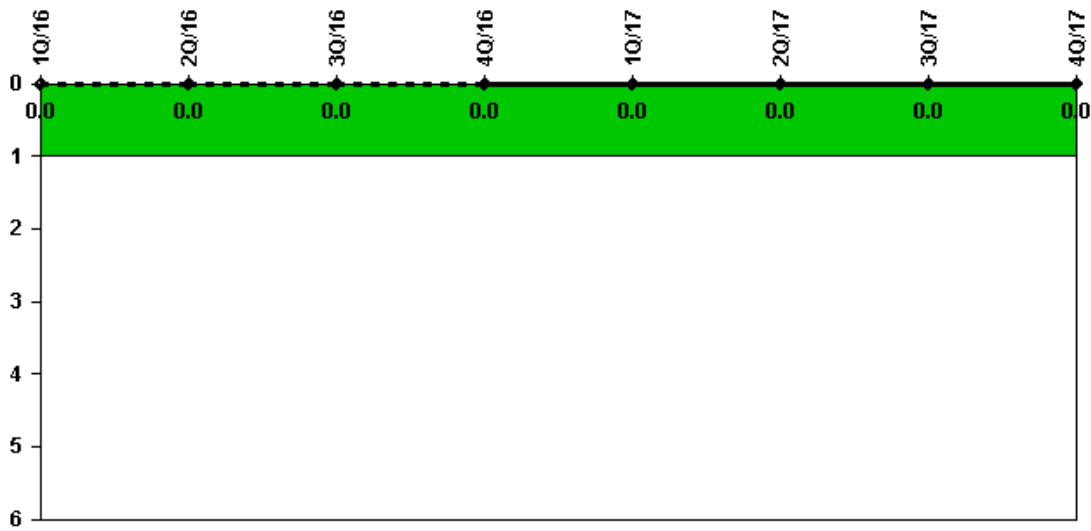
TOP

Licensee Comments:

3Q/16: On August 6, 2016, Heater Drain Tank (HDT) level controller failed causing both HDT discharge level control valves to fail open. HDT level lowered and both HDT pumps tripped at the low level setpoint. Operators rapidly reduced load to match steam flow and feedwater flow. During the rapid downpower, the RCS was borated and control rods were inserted. Critical parameters were maintained within limits. Power was stabilized at 78%.

2Q/16: On June 24, 2016, actions were initiated to commence reactor shutdown to comply the Technical Specification LCO 3.7.7 in order to repair a leaking weld on the 20 inch Service Water pipe to nozzle weld on the 21 Component Cooling Water Heat Exchanger. Entered Mode 3 at 07:59 hours, after normal plant shutdown and reactor trip per normal shutdown procedure 2-POP-3.1 (Plant Shutdown From 45% Power).

Unplanned Scrams with Complications



Thresholds: White > 1.0

Notes

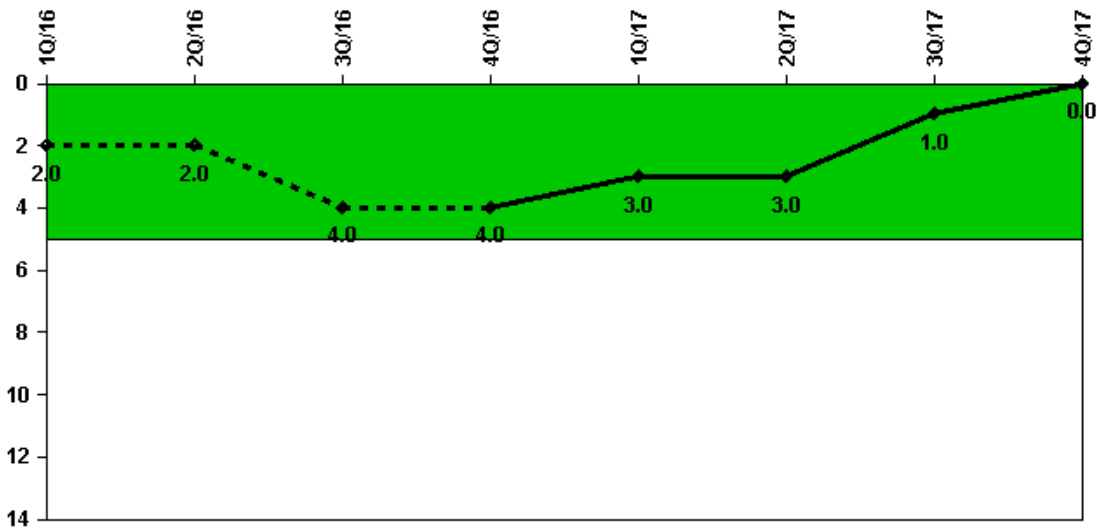
Unplanned Scrams with Complications 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17 4Q/17
 Scrams with complications 0 0 0 0 0 0 0 0

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/162Q/163Q/164Q/161Q/172Q/173Q/174Q/17

Safety System Functional Failures 1 0 2 1 0 0 0 0

Indicator value 2 2 4 4 3 3 1 0

TOP

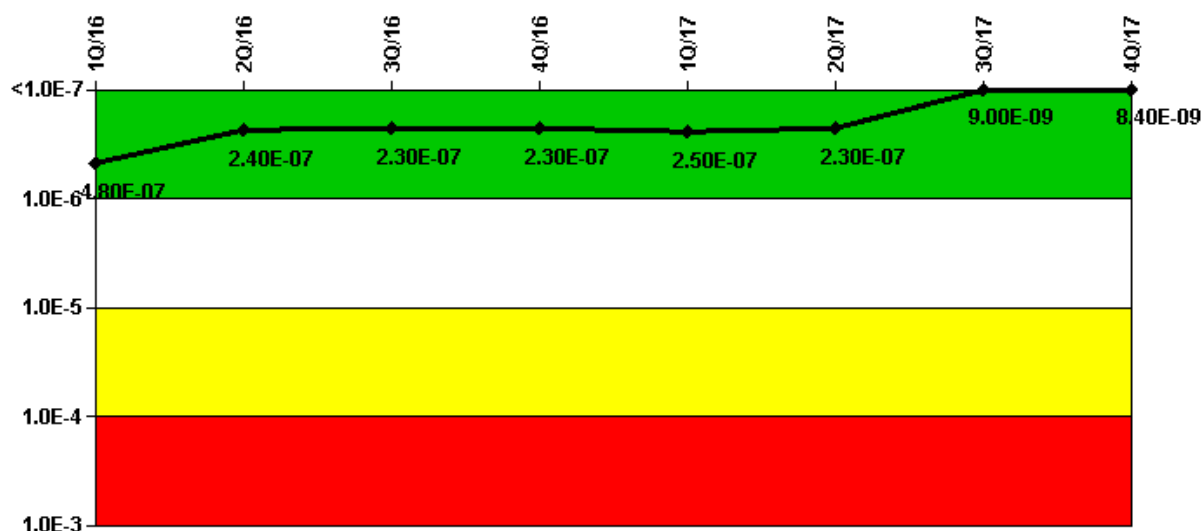
Licensee Comments:

4Q/16: LER-2016-010 reported on December 21, 2016, a SSFF due to an inoperable containment caused by a through wall defect in a service water supply pipe elbow to the 24 fan cooler unit.

3Q/16: LER-2016-007 reported on August 9, 2016, a safety system functional failure after discovering in Mode 4 two open ECCS sump barrier gates. The condition could have prevented adequate post accident core cooling due to DBA debris blockage of the containment recirculation sump and/or the containment sump. TS requires the ECCS to be operable in Modes 1-4. The licensing and design basis of the ECCS credits flow channeling barriers installed in response to GL-2004-02. On September 29, 2016, a revision of LER-2015-001 was submitted reporting a SSFF in addition to the initial reporting as a TS prohibited condition. Additional Entergy reporting guidance determined that this event was also reportable as a SSFF.

1Q/16: LER-2015-004 reported on February 18, 2016, a SSFF due to an inoperable containment caused by a flawed SW pipe elbow on the 21 FCU motor cooler return pipe.

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)	9.97E-08	7.86E-08	7.07E-08	6.79E-08	6.11E-08	3.04E-08	3.51E-08	3.45E-08
URI (ΔCDF)	3.80E-07	1.59E-07	1.61E-07	1.67E-07	1.86E-07	1.99E-07	-2.61E-08	-2.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.80E-07	2.40E-07	2.30E-07	2.30E-07	2.50E-07	2.30E-07	9.00E-09	8.40E-09

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Licensee Comments:

4Q/17: Multiple changes to previous quarterly data entered between the 3rd Quarter 2014 and the 1st Quarter 2017 as described in CR-IP2-2017-03196.

3Q/17: Changes to 2nd Quarter 2017 Planned Unavailable Hours, Demands, and Run Hours as described in CR-IP2-2017-03203. No effect on color of performance indicator.

3Q/17: Changes to 2nd Quarter 2017 planned unavailable hours, demands, and run times as described in CR-IP2-2017-03203. No effect on color of performance indicator.

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs). Changes to 2nd Quarter 2017 Planned Unavailable Hours, Demands, and Run Hours as described in CR-IP2-2017-03203. No effect on color of performance indicator.

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change

Requests (MCRs).

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs). Changes to 2nd Quarter 2017 planned unavailable hours, demands, and run times as described in CR-IP2-2017-03203. No effect on color of performance indicator.

1Q/17: Corrected unavailability hours and run times as required per train (CR-IP2-2017-03196).

4Q/16: Corrected unavailability hours and run times as required per train (CR-IP2-2017-03196).

3Q/16: Corrected unavailability hours and run times as required per train (CR-IP2-2017-03196).

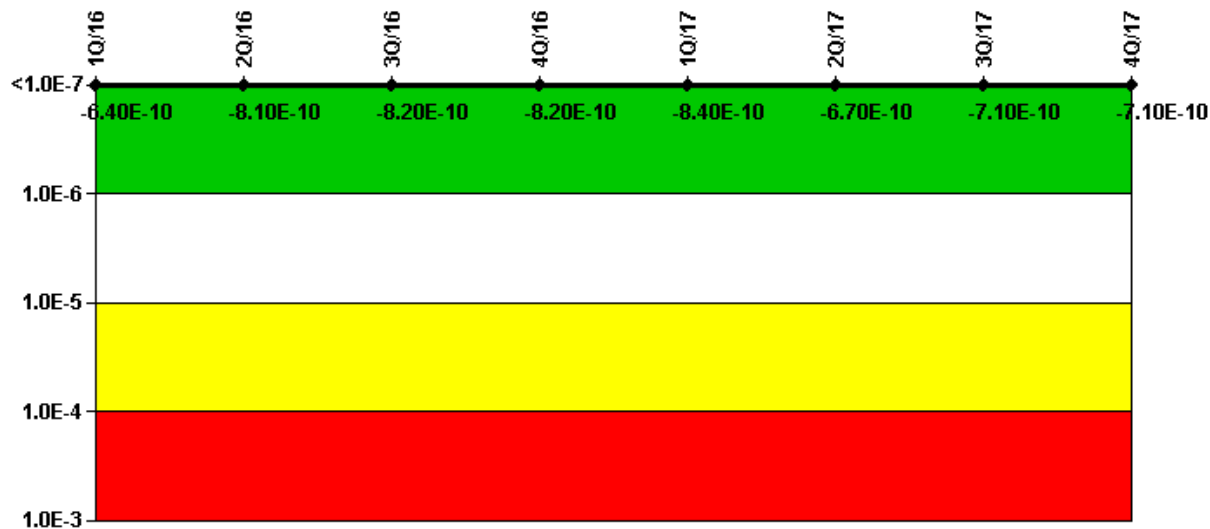
2Q/16: Corrected run times as required per train (CR-IP2-2017-03196).

1Q/16: Load failure of 23 EDG recorded on 3/7/16 report # 321856 due to a degraded automatic voltage regulator. Corrected unavailability hours and run times as required per train; added one start/load demand for 22EDG and 23EDG (CR-IP2-2017-03196).

1Q/16: Load failure of 23 EDG recorded on 3/7/16 report # 321856 due to a degraded automatic voltage regulator.

1Q/16: Load failure of 23 EDG recorded on 3/7/16 report # 321856 due to a degraded automatic voltage regulator.

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)	-1.46E-10	-3.14E-10	-3.27E-10	-3.27E-10	-3.29E-10	-2.53E-10	-2.81E-10	-2.81E-10
URI (ΔCDF)	-4.99E-10	-5.01E-10	-4.92E-10	-4.92E-10	-5.09E-10	-4.12E-10	-4.27E-10	-4.34E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.40E-10	-8.10E-10	-8.20E-10	-8.20E-10	-8.40E-10	-6.70E-10	-7.10E-10	-7.10E-10

TOP

Licensee Comments:

4Q/17: Multiple changes to previous quarterly data entered between the 1st Quarter 2015 and the 2nd Quarter 2017 as described in CR-IP2-2017-03196.

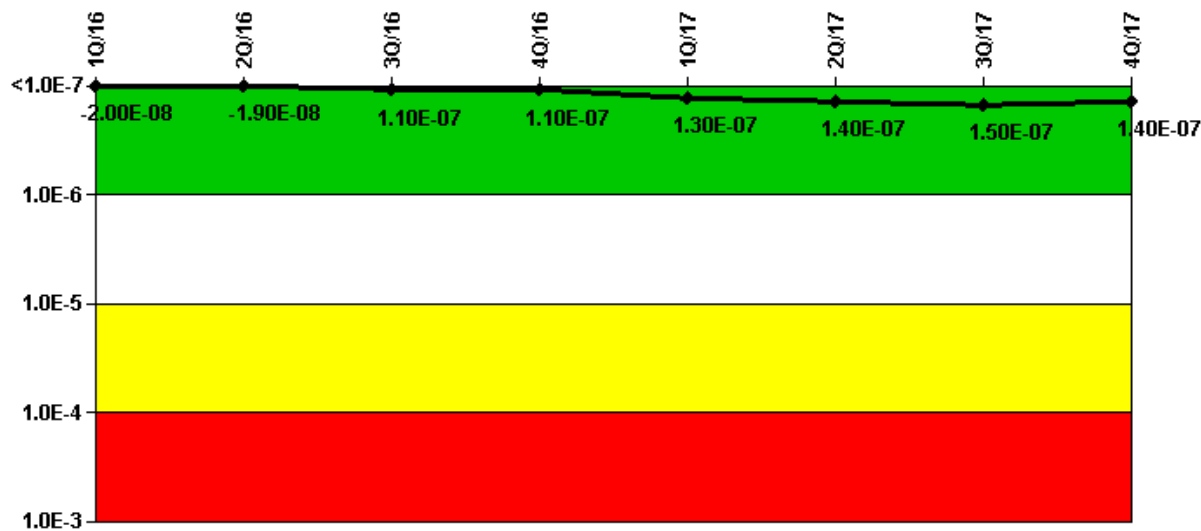
2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs). Corrected 23SIP demand/run time for June (CR-IP2-2017-03196).

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs).

1Q/17: Corrected 888A/B demands for March (CR-IP2-2017-03196).

2Q/16: Corrected 888A/B demands for June (CR-IP2-2017-03196).

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)	1.10E-08	1.30E-08	1.62E-08	1.84E-08	2.57E-08	2.83E-08	2.68E-08	2.29E-08
URI (ΔCDF)	-3.09E-08	-3.24E-08	9.17E-08	9.19E-08	1.07E-07	1.17E-07	1.23E-07	1.19E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-08	-1.90E-08	1.10E-07	1.10E-07	1.30E-07	1.40E-07	1.50E-07	1.40E-07

TOP

Licensee Comments:

4Q/17: Multiple changes to previous quarterly data entered between the 4th Quarter 2014 and the 3rd Quarter 2017 as described in CR-IP2-2017-03196.

3Q/17: Change to 2nd Quarter 2017 planned unavailable hours and demands and run times as described in CR-IP2-2017-03169 and CR-IP2-2017-03196. No effect on color of performance indicator.

3Q/17: Change to 2nd Quarter 2017 Planned Unavailable Hours as described in CR-IP2-2017-03169. No effect on color of performance indicator.

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs). Change to 2nd Quarter 2017 planned unavailable hours as described in CR-IP2-2017-03169. No effect on color of performance indicator. Corrected 22AFP unavailability hours, and demands and run times based on plant trip (CR-IP2-2017-03196).

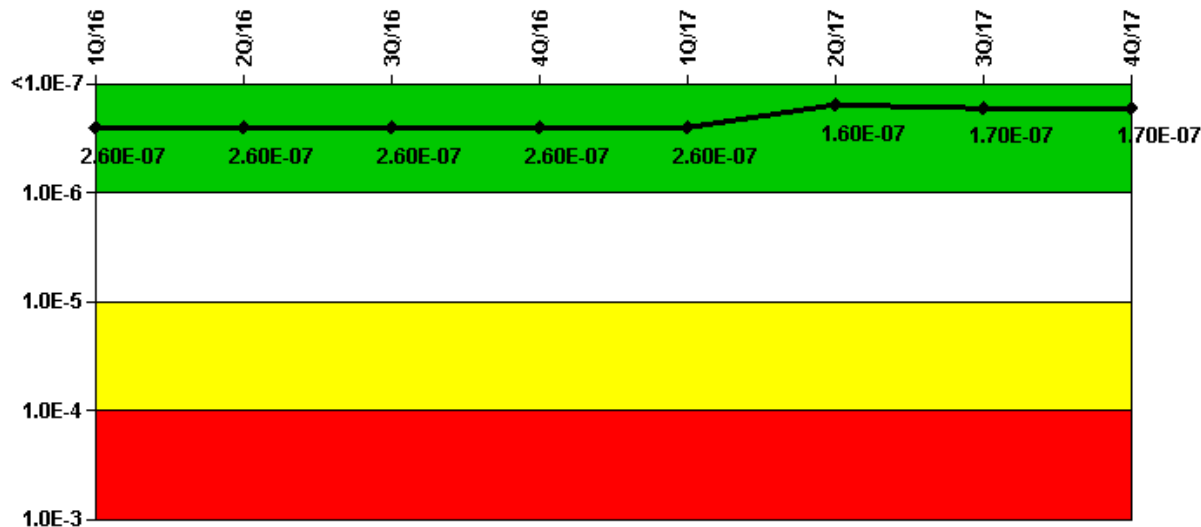
2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs). Change to 2nd Quarter 2017 Planned Unavailable Hours as described in CR-IP2-2017-03169. No effect on color of performance indicator.

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs).

3Q/16: Corrected demands and run times (CR-IP2-2017-03196).

1Q/16: Corrected unavailability hours and 21AFP demands and run times (CR-IP2-2017-03196).

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)	-3.95E-09	-8.70E-09	-8.06E-09	-9.18E-09	-9.10E-09	-5.57E-09	-5.95E-09	-5.93E-09
URI (ΔCDF)	2.66E-07	2.65E-07	2.65E-07	2.64E-07	2.68E-07	1.61E-07	1.72E-07	1.72E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.60E-07	2.60E-07	2.60E-07	2.60E-07	2.60E-07	1.60E-07	1.70E-07	1.70E-07

 TOP

Licensee Comments:

4Q/17: Multiple changes to previous quarterly data entered between the 3rd Quarter 2015 and the 1st Quarter 2017 as described in CR-IP2-2017-03196.

3Q/17: Change to 2nd Quarter 2017 Planned Unavailable Hours as described in CR-IP2-2017-03196. No effect on color of performance indicator.

3Q/17: Change to 2nd Quarter 2017 planned unavailable hours as described in CR-IP2-2017-03196. No effect on color of performance indicator.

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs). Change to 2nd Quarter 2017 planned unavailable hours as described in CR-IP2-2017-03196. No effect on color of performance indicator.

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs). Change to 2nd Quarter 2017 Planned Unavailable Hours as described in CR-IP2-2017-03196. No effect on color of performance indicator.

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs).

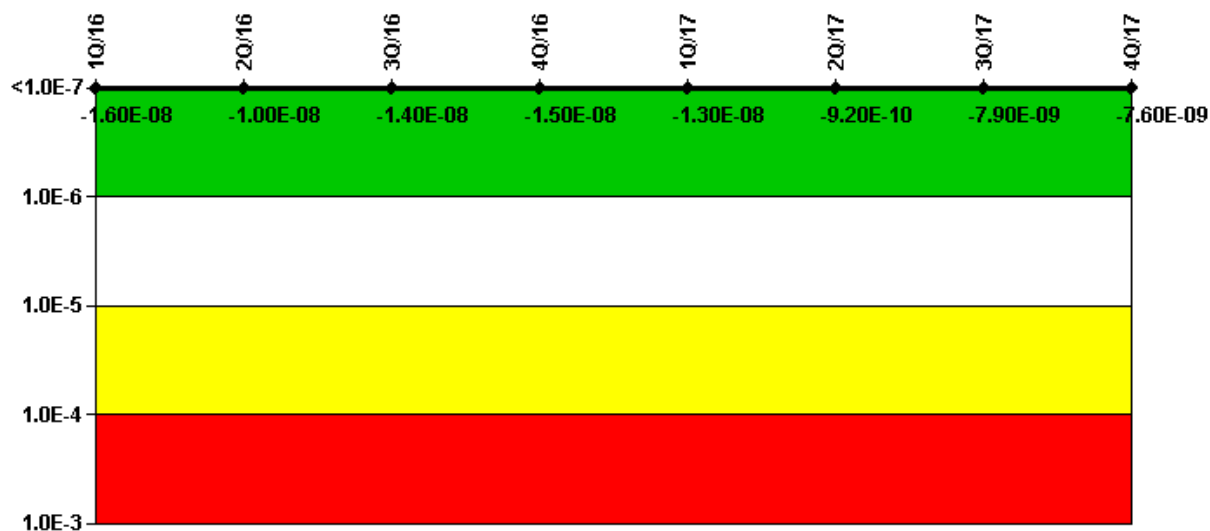
1Q/17: Corrected 22RHR run time for January (CR-IP2-2017-03196).

4Q/16: Corrected 885A demands for October (CR-IP2-2017-03196).

2Q/16: Corrected unavailability hours for June (CR-IP2-2017-03196).

1Q/16: Corrected 21 and 22RHR demands and run times for March (CR-IP2-2017-03196).

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

Mitigating Systems Performance Index, Cooling Water Systems

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	3.67E-09	1.00E-08	6.43E-09	6.46E-09	6.96E-09	8.18E-09	1.83E-09	1.92E-09
URI (ΔCDF)	-2.02E-08	-2.03E-08	-2.06E-08	-2.10E-08	-2.05E-08	-9.10E-09	-9.68E-09	-9.50E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.00E-08	-1.40E-08	-1.50E-08	-1.30E-08	-9.20E-10	-7.90E-09	-7.60E-09

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Licensee Comments:

4Q/17: Multiple changes to previous quarterly data entered between the 4th Quarter 2014 and the 3rd Quarter 2016 as described in CR-IP2-2017-03196.

3Q/17: Changes to 2nd Quarter 2017 Demands and Run Hours as described in CR-IP2-2017-03196. No effect on color of performance indicator.

3Q/17: Changes to 2nd Quarter 2017 demands and run times as described in CR-IP2-2017-03196. No effect on color of performance indicator.

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs). Changes to 2nd Quarter 2017 Demands and Run Hours as described in CR-IP2-2017-03196. No effect on color of performance indicator.

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs). Changes to 2nd Quarter 2017 Demands and Run Hours as described in CR-IP2-2017-03196. No effect on color of

performance indicator.

2Q/17: A periodic update of the Unit 2 Probabilistic Safety Assessment (PSA) was performed per the requirements of Entergy fleet procedure EN-DC-151 (PSA Maintenance and Update), which requires a periodic model update be performed nominally once every four years, up to a maximum of six years. This update includes plant design and procedure changes and general modeling enhancements identified since issuance of the previous IP2 PSA model of record. This revision of the PSA model includes resolution of all Level A & B findings (F&Os) from the Regulatory Guide 1.200 peer review, as well as incorporation of significant self-identified Model Change Requests (MCRs).

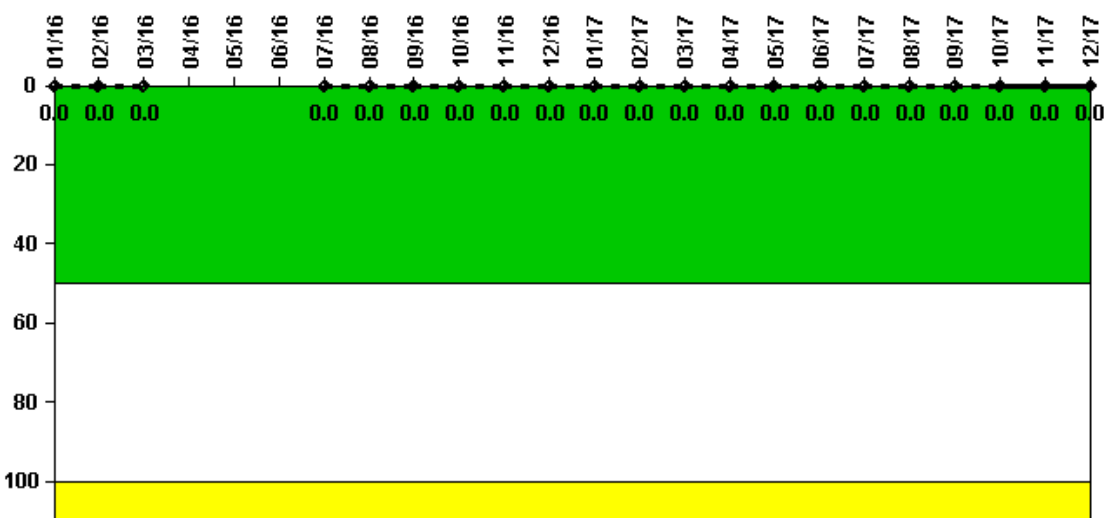
1Q/17: Corrected 822A/B demand/failure for March (CR-IP2-2017-03196).

3Q/16: Corrected 22CCP unavailability hours for August; 21CCP unavailability hours and 22 and 23CCP demand/run times for September (CR-IP2-2017-03196).

2Q/16: Corrected 21CCW HX unavailability hours for June (CR-IP2-2017-03196).

1Q/16: Corrected 23CCP run time for March (CR-IP2-2017-03196).

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	0.000271	0.000245	0.000150	N/A	N/A	N/A	0.000134	0.000131	0.000150	0.000126	0.000145	0.000139
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	N/A	N/A	N/A	0	0	0	0	0	0

Reactor Coolant System Activity	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17	10/17	11/17	12/17
Maximum activity	0.000150	0.000150	0.000168	0.000144	0.000146	0.000186	0.000168	0.000184	0.000170	0.000201	0.000183	0.000167
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

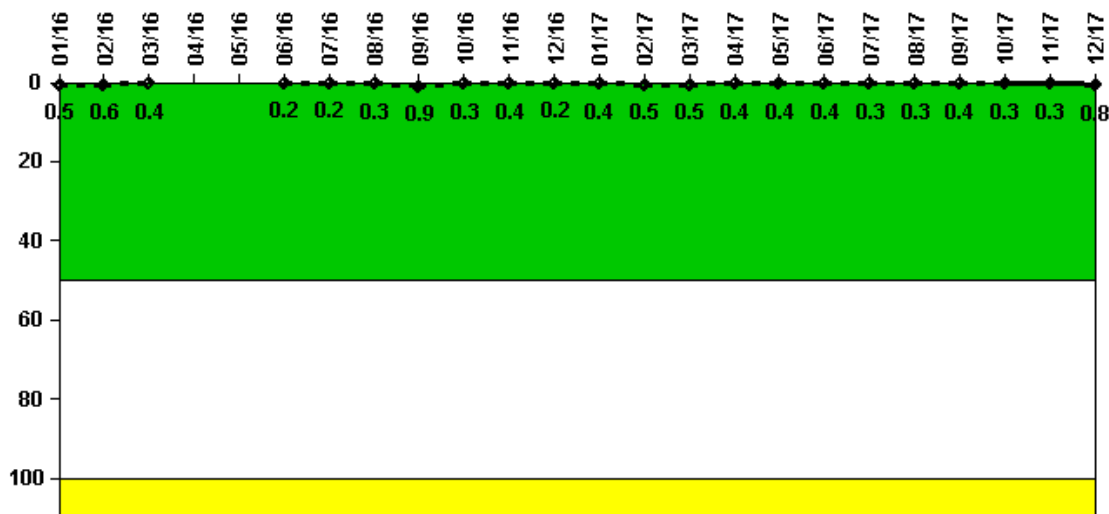
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

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Licensee Comments:

6/16: Plant started refueling outage 3/7/16. No RCS coolant activity calculated.

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	0.050	0.060	0.040	N/A	N/A	0.020	0.024	0.030	0.090	0.030	0.040	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	0.5	0.6	0.4	N/A	N/A	0.2	0.2	0.3	0.9	0.3	0.4	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	0.040	0.050	0.050	0.040	0.040	0.040	0.030	0.030	0.040	0.030	0.030	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

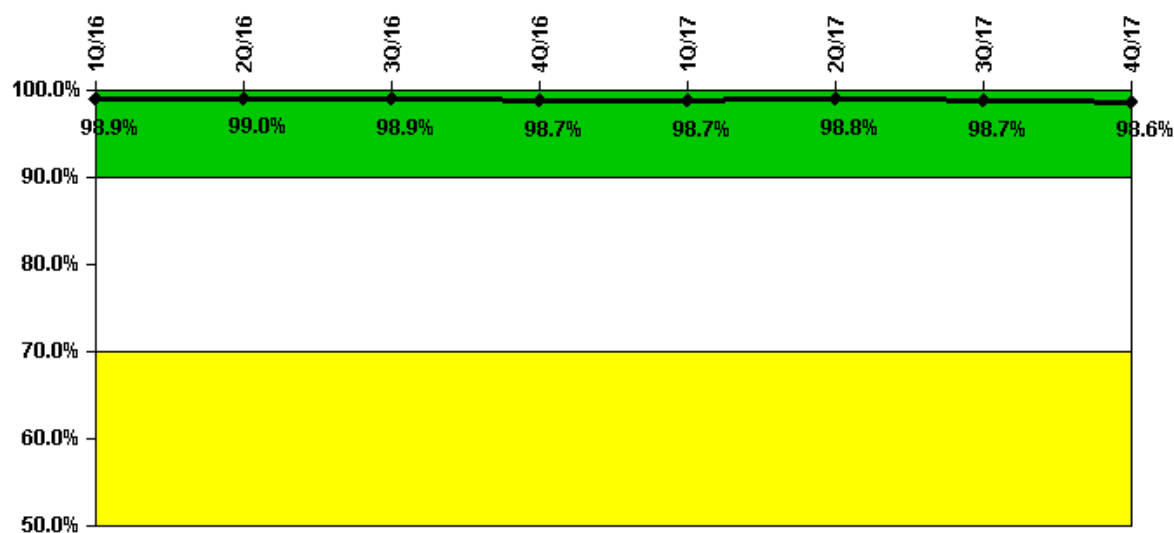
Indicator value	0.4	0.5	0.5	0.4	0.4	0.4	0.3	0.3	0.4	0.3	0.3	0.8

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Licensee Comments:

6/16: Plant started refueling outage which was extended due to degraded RV baffle-former bolts. Unit startup was 6/16/16. No RCS Leal Rate was determined during outage due to plant in outage.

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

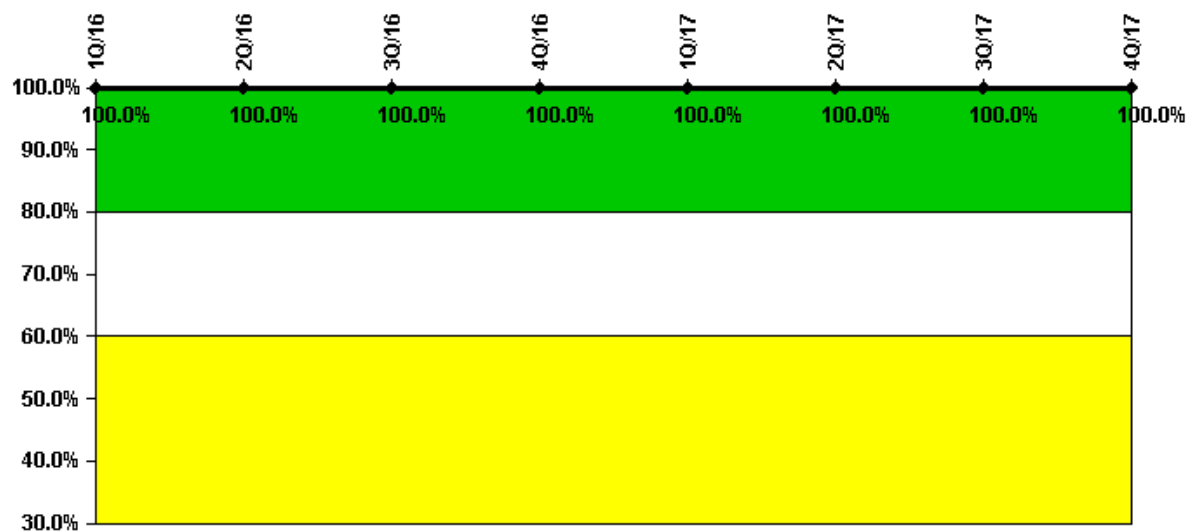
Drill/Exercise Performance	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful opportunities	26.0	62.0	103.0	93.0	23.0	18.0	98.0	125.0
Total opportunities	26.0	63.0	105.0	94.0	24.0	18.0	99.0	127.0

Indicator value 98.9% 99.0% 98.9% 98.7% 98.7% 98.8% 98.7% 98.6%

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Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

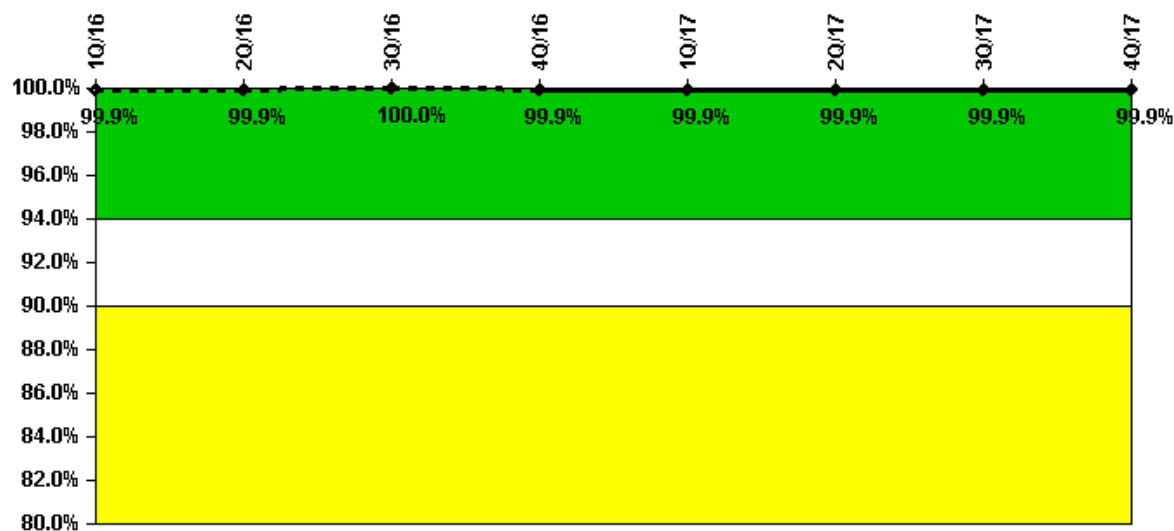
ERO Drill Participation	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Participating Key personnel	103.0	101.0	100.0	104.0	108.0	105.0	103.0	99.0
Total Key personnel	103.0	101.0	100.0	104.0	108.0	105.0	103.0	99.0

Indicator value **100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%**

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Licensee Comments: none

Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

Notes

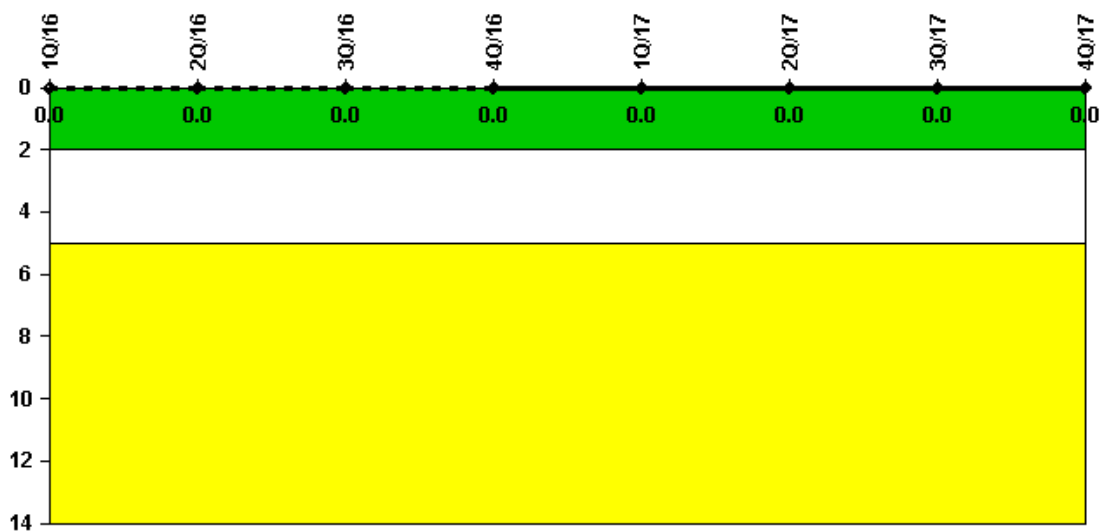
Alert & Notification System	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful siren-tests	1188	1050	1081	1201	1203	1203	1203	1203
Total sirens-tests	1188	1050	1081	1204	1204	1204	1204	1204

Indicator value 99.9% 99.9% 100.0% 99.9% 99.9% 99.9% 99.9% 99.9%

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Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

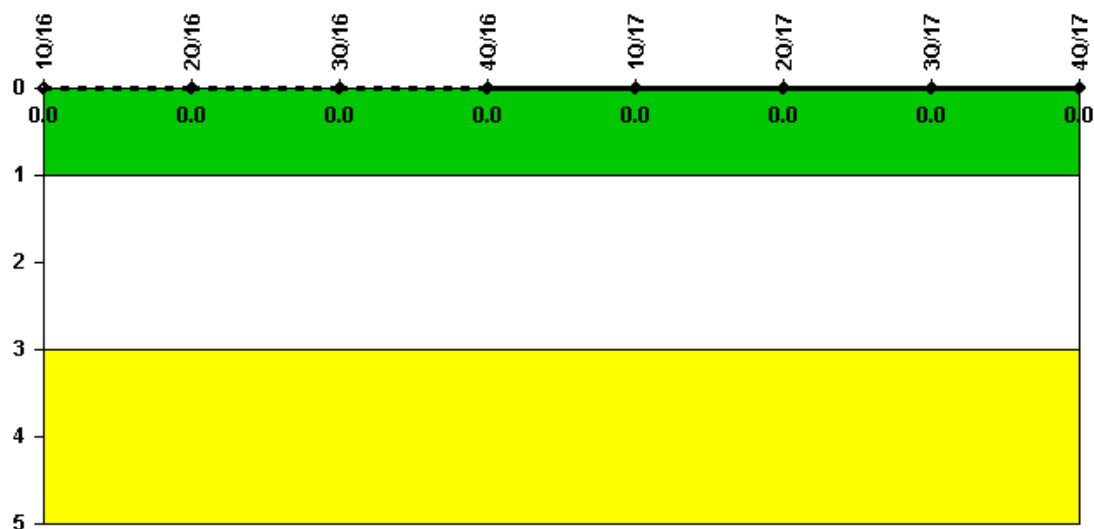
Occupational Exposure Control Effectiveness1Q/162Q/163Q/164Q/161Q/172Q/173Q/174Q/17

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

TOP

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17 4Q/17

RETS/ODCM occurrences 0 0 0 0 0 0 0 0

Indicator value 0 0 0 0 0 0 0 0

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Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: February 1, 2018

Page Last Reviewed/Updated Monday, November 06, 2017