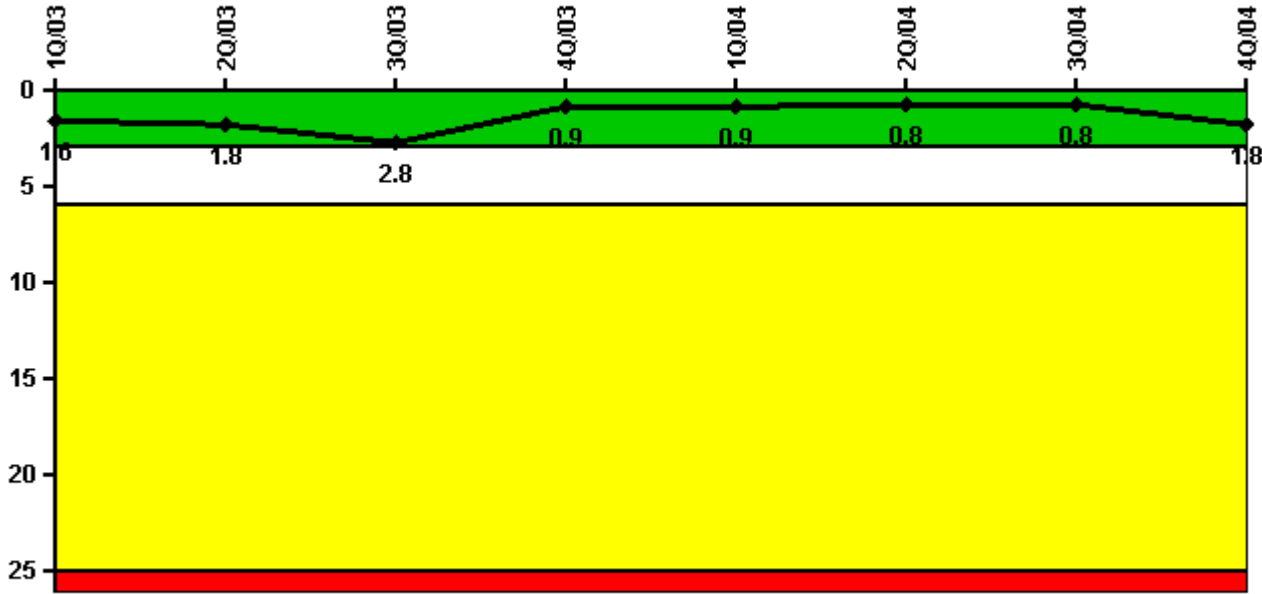


Fermi 2

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	0	1.0	0	0	0	1.0	1.0
Critical hours	2086.6	1307.5	2010.5	2209.0	2184.0	2183.0	1979.5	1558.7
Indicator value	1.6	1.8	2.8	0.9	0.9	0.8	0.8	1.8

Licensee Comments:

4Q/04: Automatic Turbine Trip and Reactor Scram 12/5/2004 10:48 due to Generator Automatic Voltage Regulator Failure. Investigation revealed AVR electronic modules communication errors caused trip. Modules replaced, software changes implemented.

Scrams with Loss of Normal Heat Removal



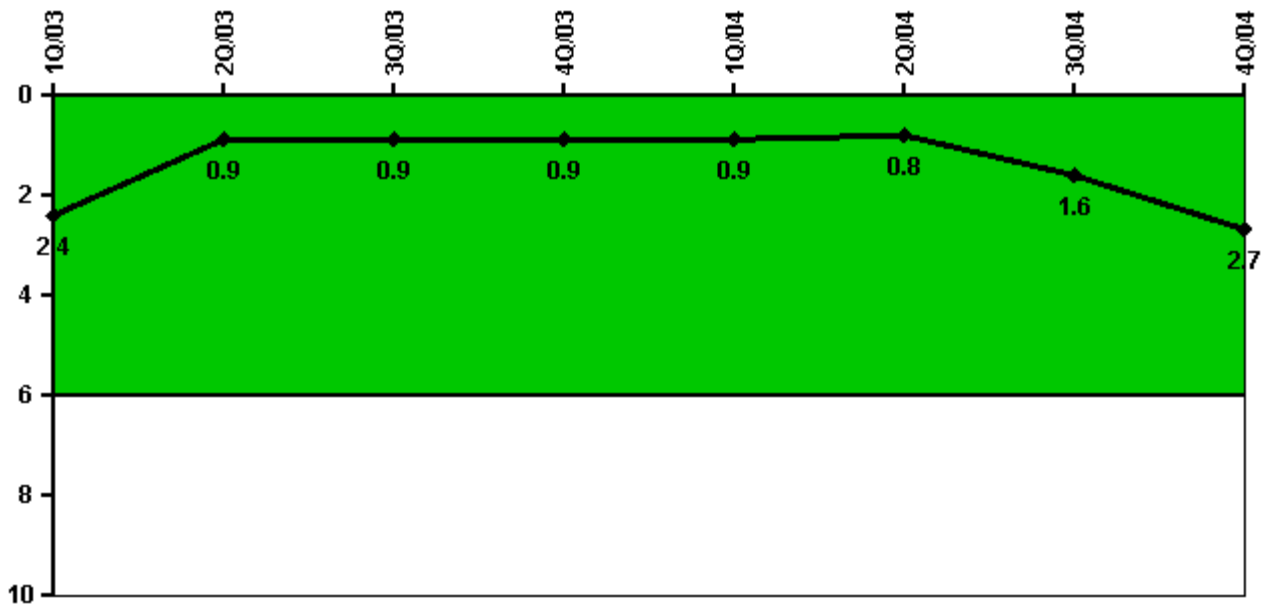
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

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	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



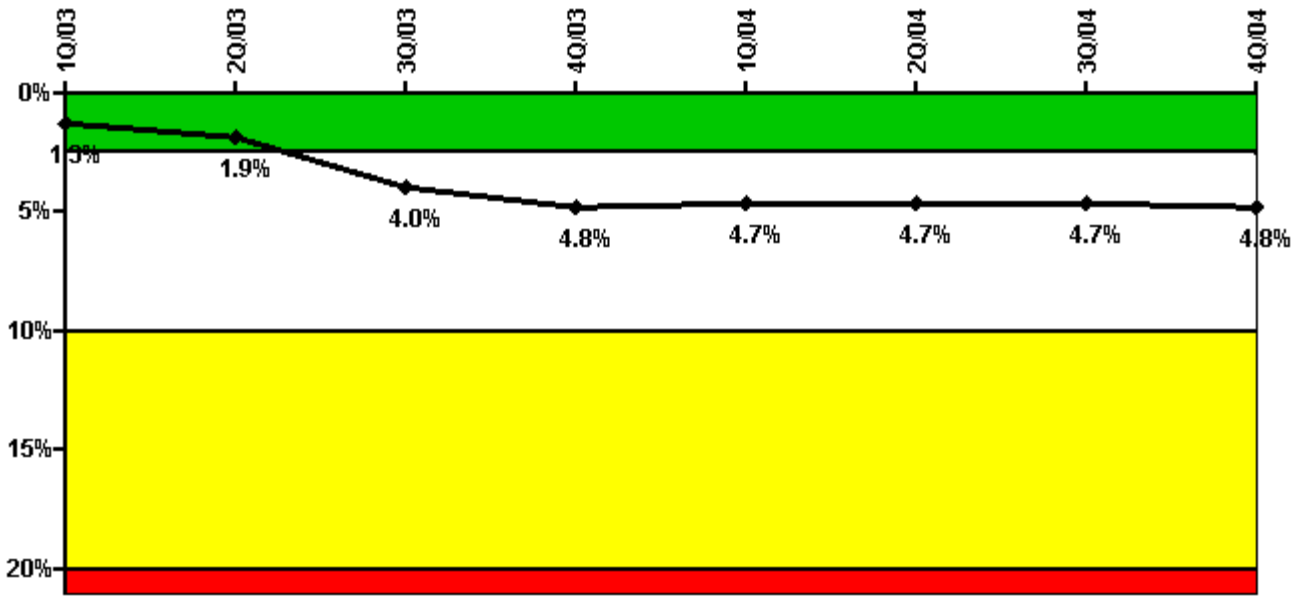
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned power changes	1.0	0	0	0	1.0	0	1.0	1.0
Critical hours	2086.6	1307.5	2010.5	2209.0	2184.0	2183.0	1979.5	1558.7
Indicator value	2.4	0.9	0.9	0.9	0.9	0.8	1.6	2.7

Licensee Comments: none

Safety System Unavailability, Emergency AC Power, >2EDG



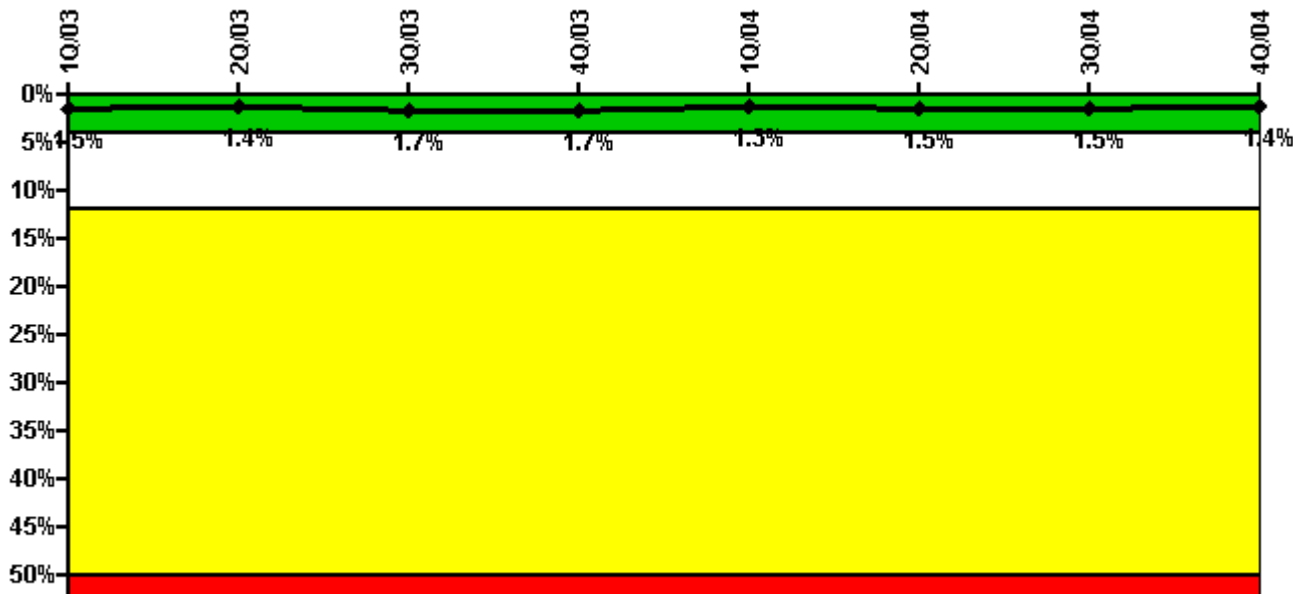
Thresholds: White > 2.5% Yellow > 10.0% Red > 20.0%

Notes

Safety System Unavailability, Emergency AC Power, >2EDG	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	38.03	8.15	28.15	9.52	10.00	6.70	49.67	19.39
Unplanned unavailable hours	29.82	0	0	0	0	1.27	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	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2208.00
Train 2								
Planned unavailable hours	17.09	2.13	0	11.47	71.86	4.76	38.87	10.91
Unplanned unavailable hours	0	0	0	0	0	0	86.65	0
Fault exposure hours	0	694.00	2208.00	928.93	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	2208.00
Train 3								
Planned unavailable hours	26.45	3.55	6.09	17.49	8.03	4.84	43.10	27.72
Unplanned unavailable hours	0	2.03	0	0	0	0	7.12	0
Fault exposure hours	0	0	0	0	0	0	2.72	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	2208.00
Train 4								
Planned unavailable hours	24.71	8.61	8.17	5.63	13.07	5.91	35.88	37.28
Unplanned unavailable hours	0	0	0	0	0	0	7.13	0
Fault exposure hours	0	0	0	0	0	0	2.72	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	2208.00
Indicator value	1.3%	1.9%	4.0%	4.8%	4.7%	4.7%	4.7%	4.8%

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPCI)



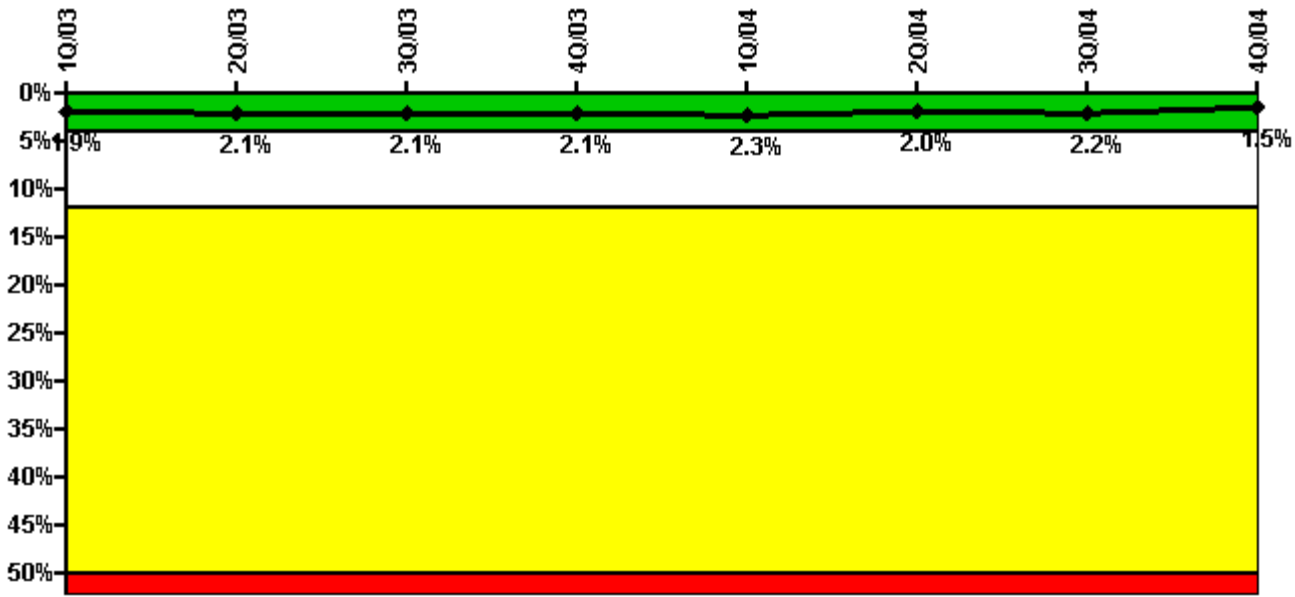
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	26.08	0	66.32	3.18	1.37	73.04	1.92	14.84
Unplanned unavailable hours	0	0	3.30	0	0	20.77	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2086.60	1307.50	2010.50	2209.00	2184.00	2183.00	1979.47	1558.65
Indicator value	1.5%	1.4%	1.7%	1.7%	1.3%	1.5%	1.5%	1.4%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)



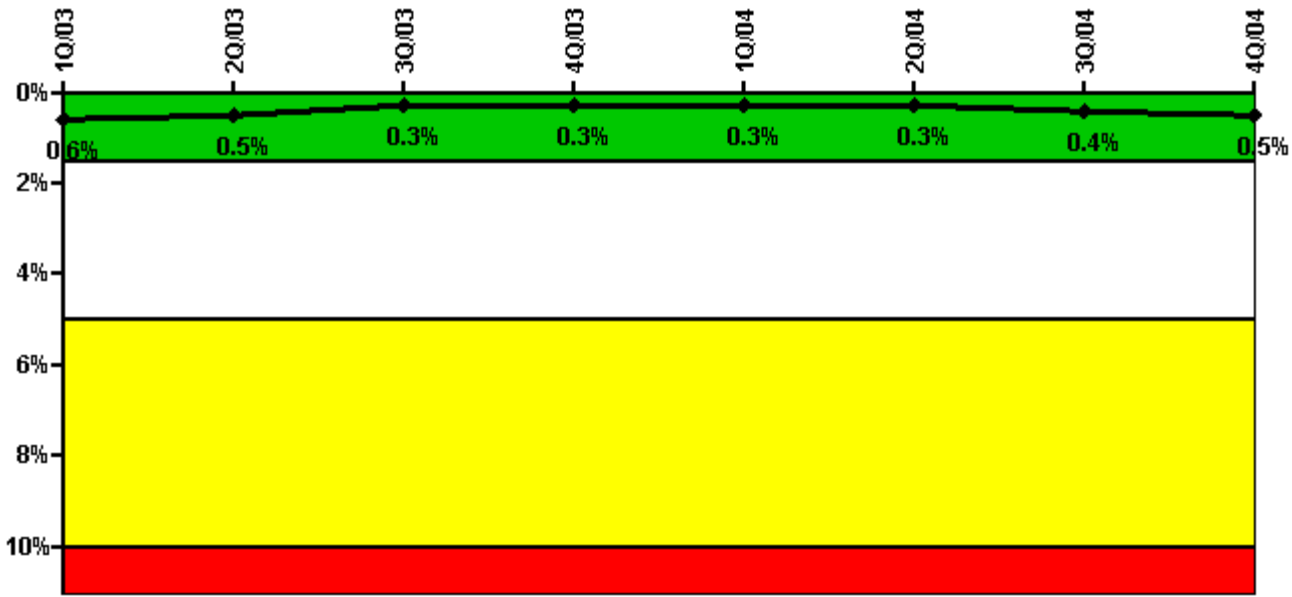
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	14.21	57.48	7.98	2.52	55.16	1.48	25.41	9.02
Unplanned unavailable hours	0	0	0	2.92	0	0	12.77	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2086.60	1307.50	2010.50	2209.00	2184.00	2183.00	1979.47	1558.65
Indicator value	1.9%	2.1%	2.1%	2.1%	2.3%	2.0%	2.2%	1.5%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



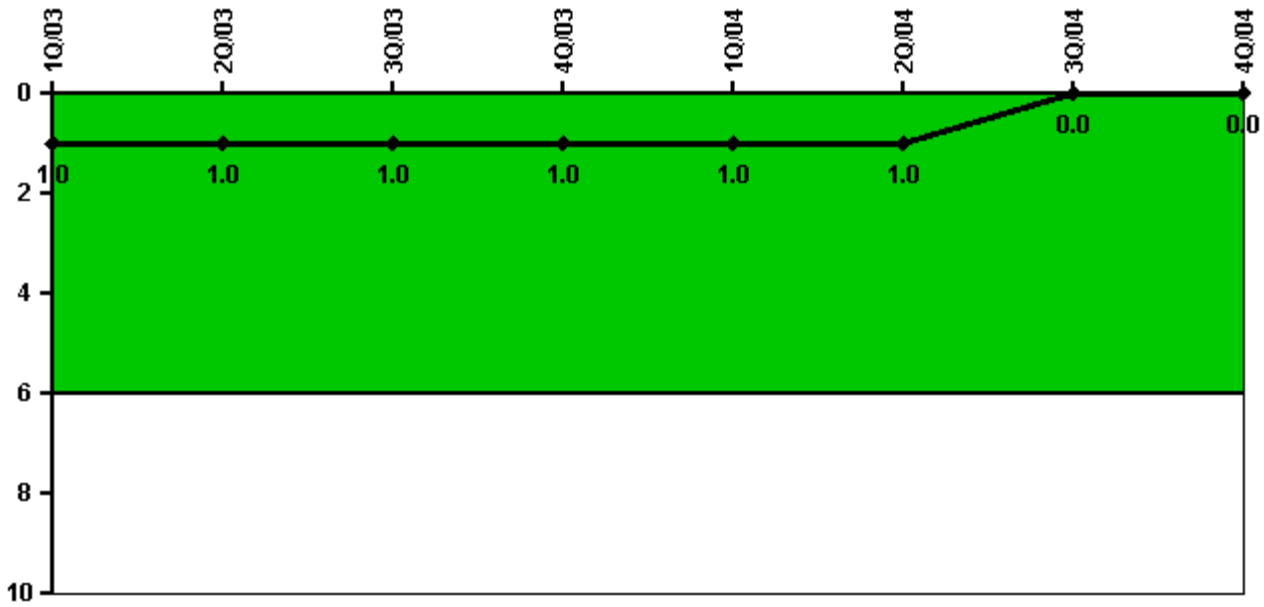
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	0.88	0	13.76	0.62	1.42	0.72	73.77	21.67
Unplanned unavailable hours	0	0.65	0	0.15	0	0	14.27	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	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	9.05	0	8.85	1.70	1.10	2.27	22.22	14.68
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	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	2208.00	2209.00
Indicator value	0.6%	0.5%	0.3%	0.3%	0.3%	0.3%	0.4%	0.5%

Licensee Comments: none

Safety System Functional Failures (BWR)



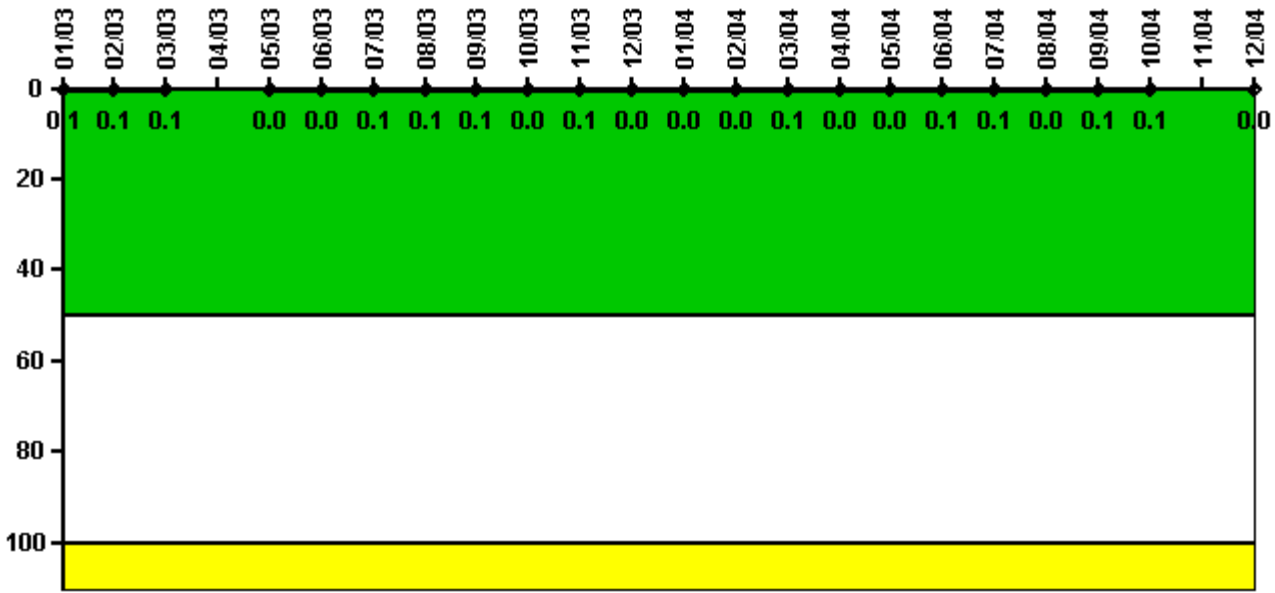
Thresholds: White > 6.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

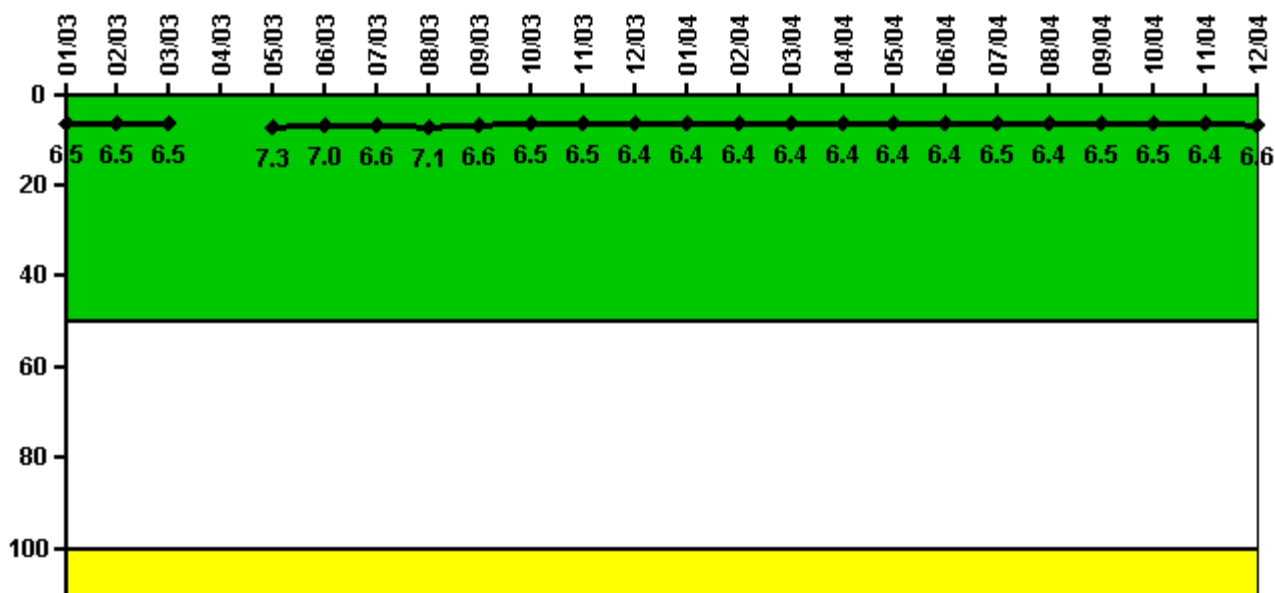
Reactor Coolant System Activity	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum activity	0.000144	0.000178	0.000168	N/A	0.000080	0.000084	0.000123	0.000124	0.000135	0.000092	0.000129	0.000094
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.1	0.1	0.1	N/A	0	0	0.1	0.1	0.1	0	0.1	0

Reactor Coolant System Activity	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04	10/04	11/04	12/04
Maximum activity	0.000089	0.000094	0.000114	0.000080	0.000076	0.000125	0.000107	0.000071	0.000120	0.000124	N/A	0.000058
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0.1	0	0	0.1	0.1	0	0.1	0.1	N/A	0

Licensee Comments:

12/04: No valid fuel performance / barrier integrity data is available for November 2004 due to plant shutdown for Refuel Outage 10.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

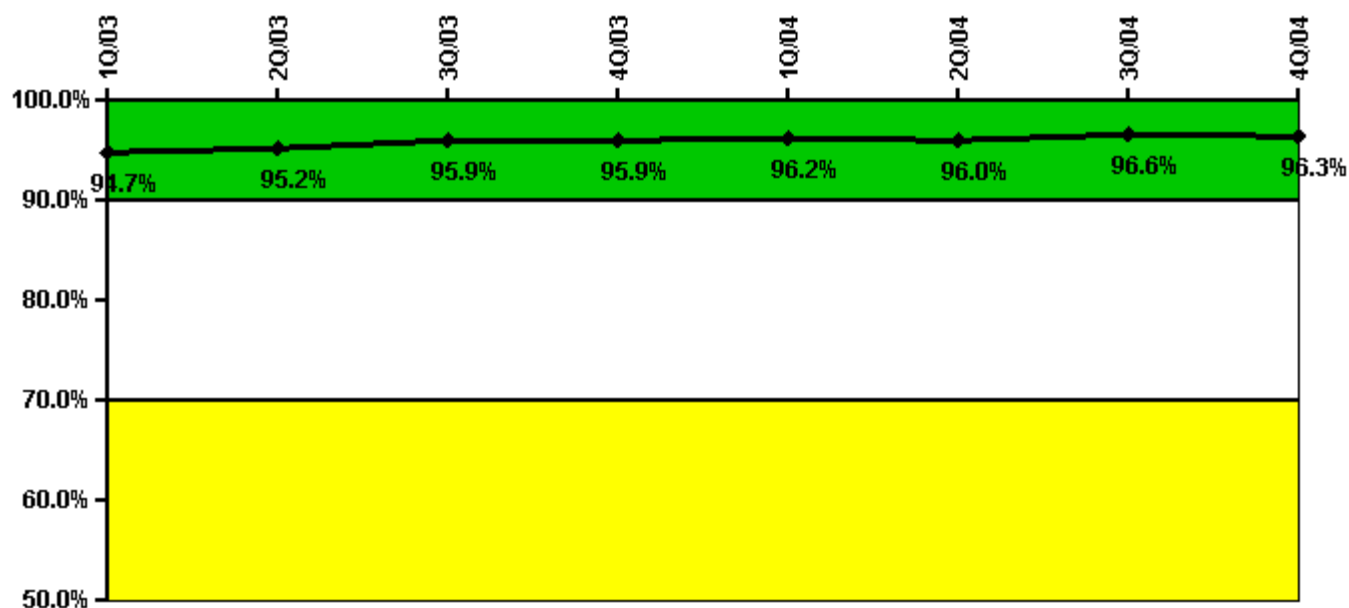
Notes

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	1.630	1.630	1.630	N/A	1.830	1.750	1.640	1.770	1.650	1.620	1.620	1.610
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	6.5	6.5	6.5	N/A	7.3	7.0	6.6	7.1	6.6	6.5	6.5	6.4

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	1.610	1.600	1.610	1.600	1.610	1.610	1.620	1.610	1.620	1.620	1.610	1.640
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	6.4	6.4	6.4	6.4	6.4	6.4	6.5	6.4	6.5	6.5	6.4	6.6

Licensee Comments: none

Drill/Exercise Performance



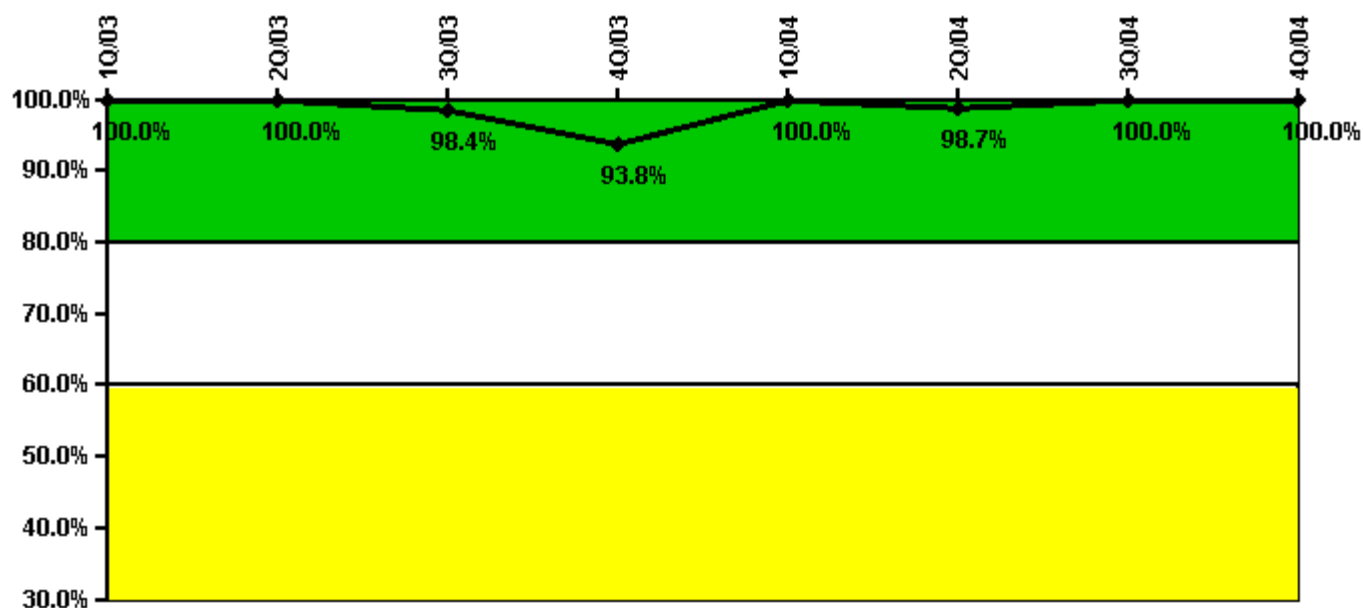
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful opportunities	64.0	28.0	149.0	0	54.0	52.0	15.0	7.0
Total opportunities	65.0	28.0	156.0	0	57.0	53.0	16.0	8.0
Indicator value	94.7%	95.2%	95.9%	95.9%	96.2%	96.0%	96.6%	96.3%

Licensee Comments: none

ERO Drill Participation



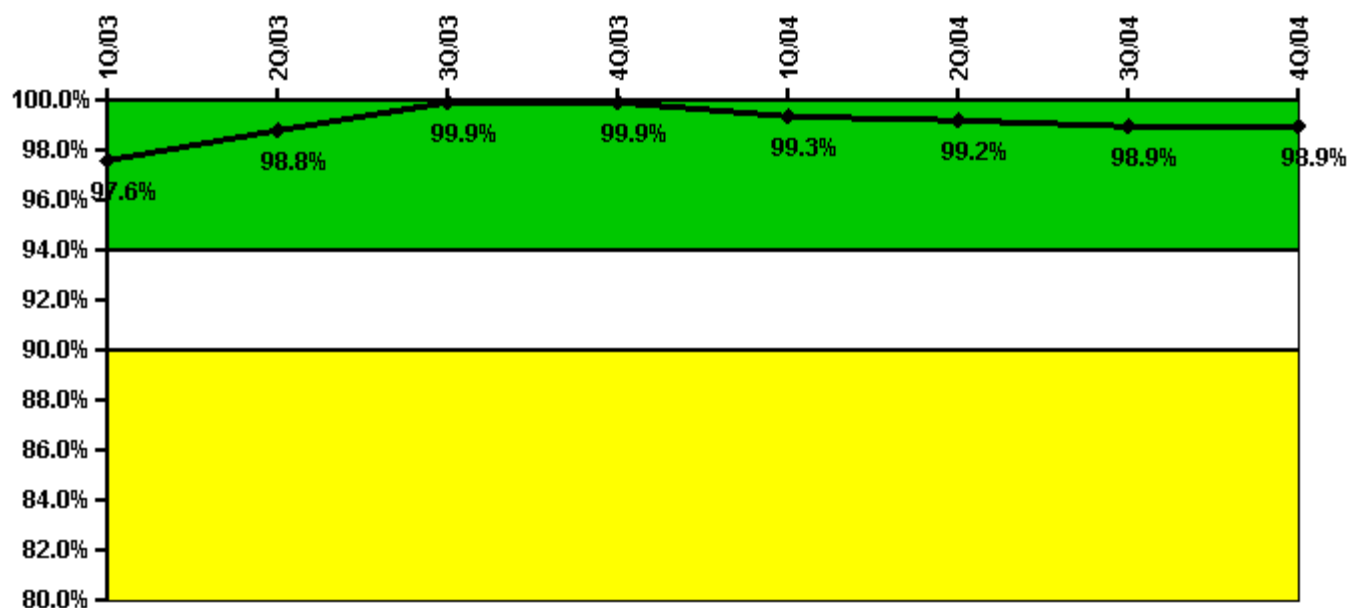
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Participating Key personnel	60.0	60.0	63.0	61.0	78.0	76.0	82.0	91.0
Total Key personnel	60.0	60.0	64.0	65.0	78.0	77.0	82.0	91.0
Indicator value	100.0%	100.0%	98.4%	93.8%	100.0%	98.7%	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	185	186	186	186	181	185	184	186
Total sirens-tests	186	186	186	186	186	186	186	186
Indicator value	97.6%	98.8%	99.9%	99.9%	99.3%	99.2%	98.9%	98.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

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

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

Last Modified: March 9, 2005