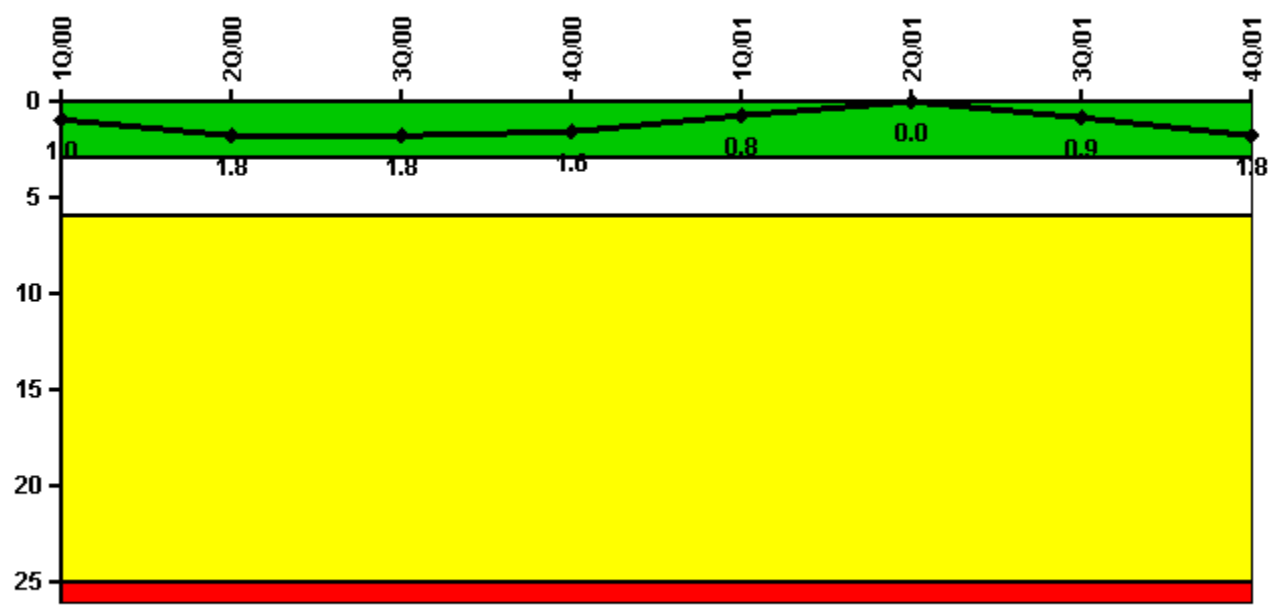


Duane Arnold

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	1.0	0	0	0	0	1.0	1.0
Critical hours	2085.7	2140.9	2208.0	2209.0	2160.0	1197.1	2159.5	2083.0
Indicator value	1.0	1.8	1.8	1.6	0.8	0	0.9	1.8

Licensee Comments:

4Q/01: At 6:10 a.m. on October 17th, plant operators inserted a manual scram in anticipation of reaching an automatic scram setpoint on low reactor pressure vessel level. The level control problem was attributed to a loss of an instrument electrical bus, which ultimately caused the "A" feedwater pump to trip.

Scrams with Loss of Normal Heat Removal



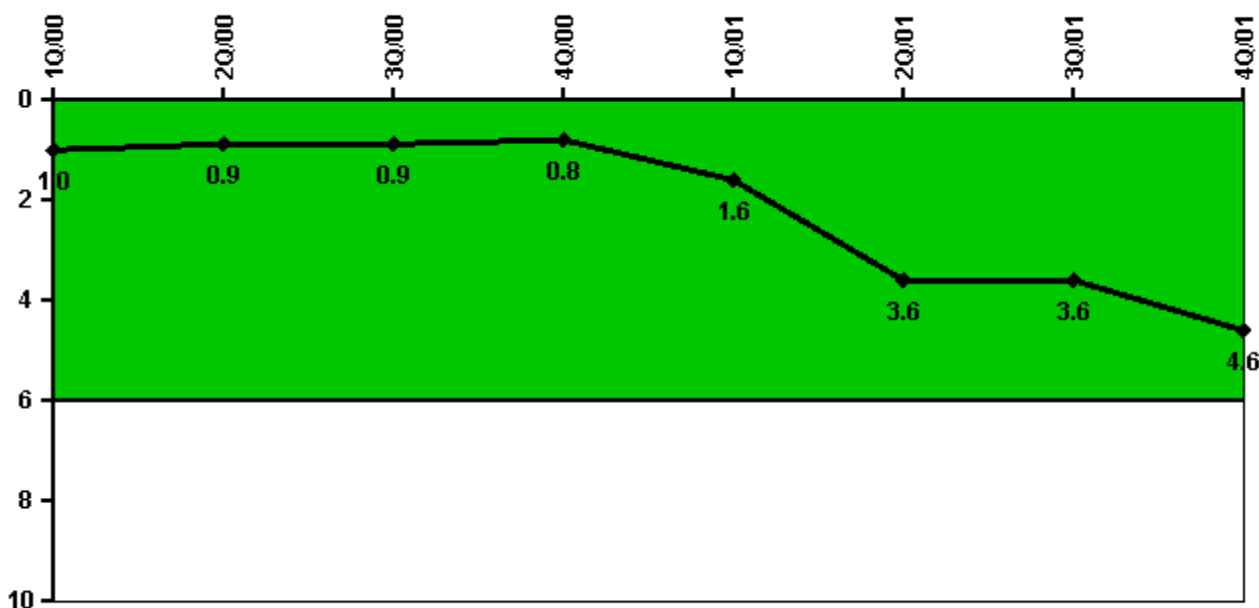
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

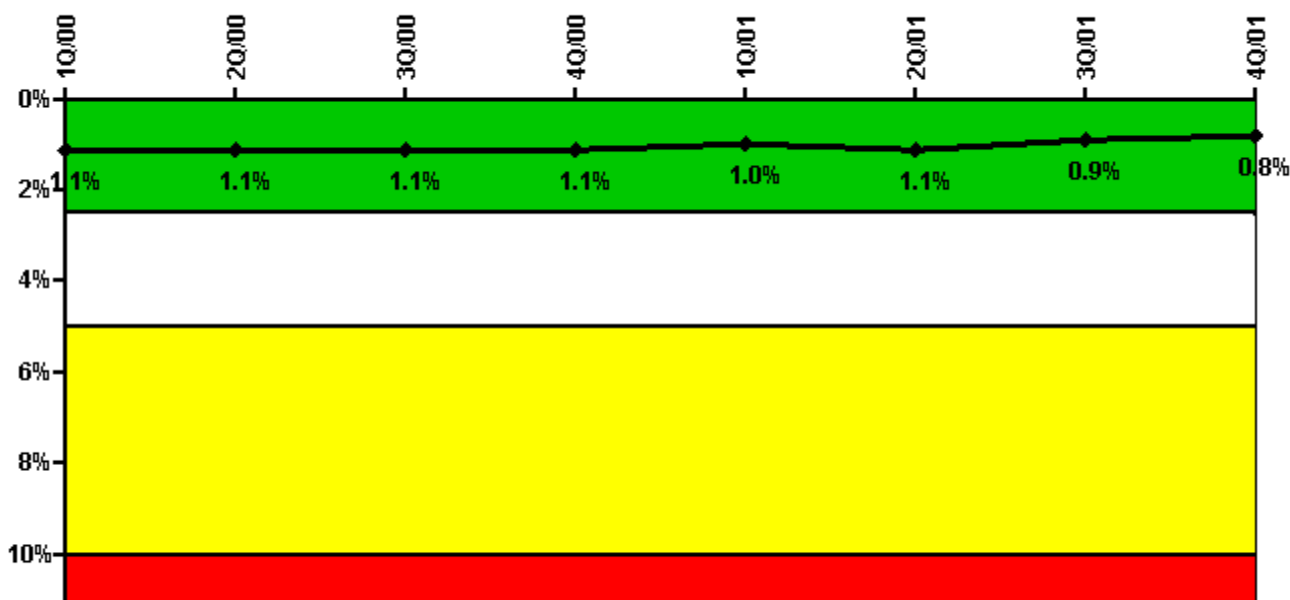
Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned power changes	0	0	1.0	0	1.0	2.0	1.0	1.0
Critical hours	2085.7	2140.9	2208.0	2209.0	2160.0	1197.1	2159.5	2083.0
Indicator value	1.0	0.9	0.9	0.8	1.6	3.6	3.6	4.6

Licensee Comments:

4Q/01: 11/14/01: Reduce power from 1658 to 1100 MWth when a steam leak was discovered at one of the gasketed joints of a flow orifice for the "A" side 2nd stage moisture separator/reheater.

Safety System Unavailability, Emergency AC Power



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

Notes

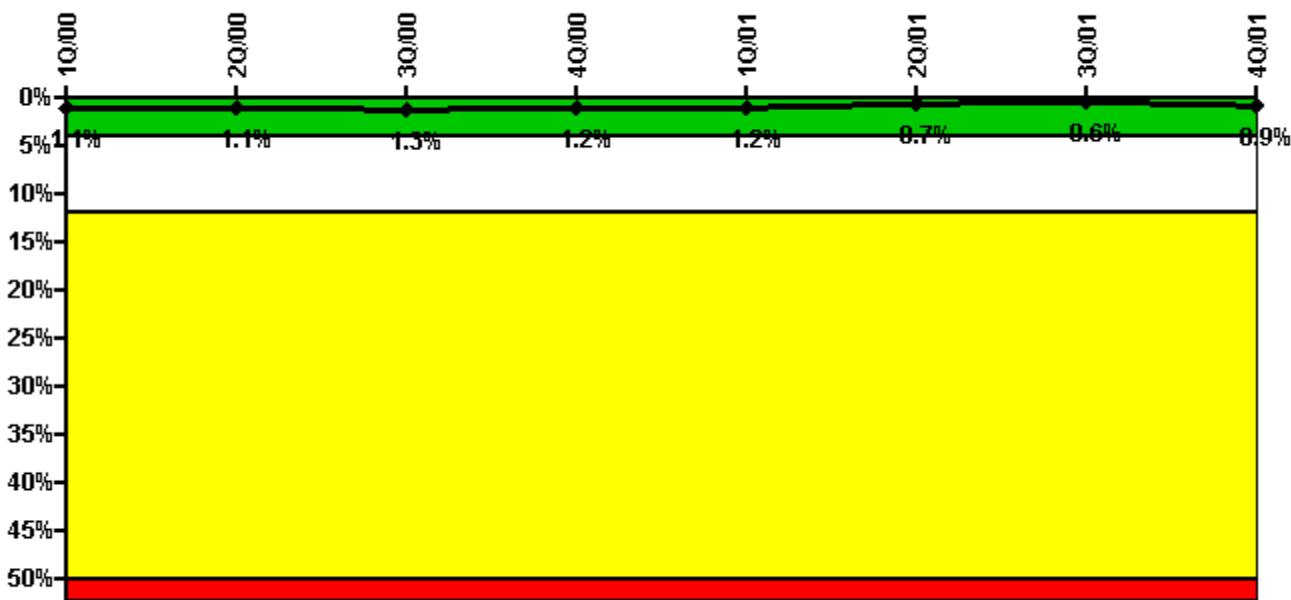
Safety System Unavailability, Emergency AC Power	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	10.99	10.80	11.44	11.07	14.46	3.43	14.76	6.80
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2013.80	2208.00	2209.00
Train 2								
Planned unavailable hours	10.02	10.39	11.43	10.86	13.87	48.76	11.11	10.75
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2059.22	2208.00	2209.00
Indicator value	1.1%	1.1%	1.1%	1.1%	1.0%	1.1%	0.9%	0.8%

Licensee Comments:

4Q/01: Excludes 93.27 hours planned out-of-service overhaul time 1G031 (train 1).

4Q/99: Added hours for monthly unavailability due to tech spec required operability testing. 01/18/02: Revised Train 2 Unavailability from 4.37 to 3.37 to correct typo.

Safety System Unavailability, High Pressure Injection System (HPCI)



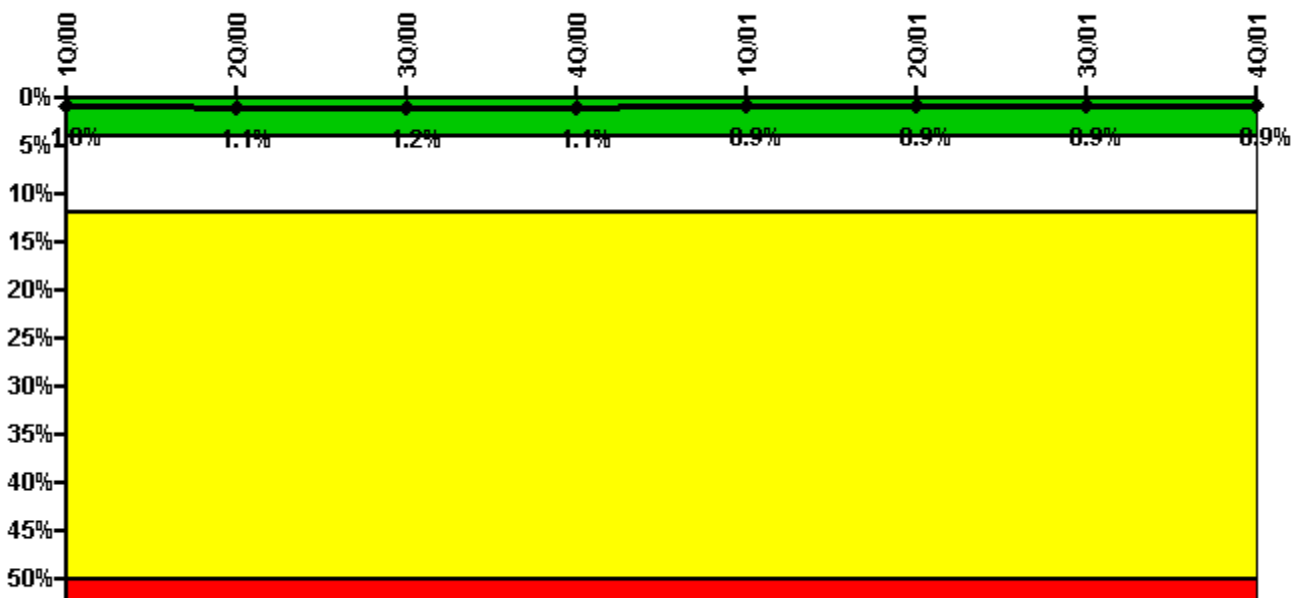
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPCI)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	40.10	0	45.50	0	19.54	2.67	7.03	68.40
Unplanned unavailable hours	0	0	0	0	0	5.10	0	3.00
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2085.70	2140.90	2208.00	2209.00	2160.00	1197.10	2159.50	2083.00
Indicator value	1.1%	1.1%	1.3%	1.2%	1.2%	0.7%	0.6%	0.9%

Licensee Comments: none

Safety System Unavailability, Heat Removal System (RCIC)



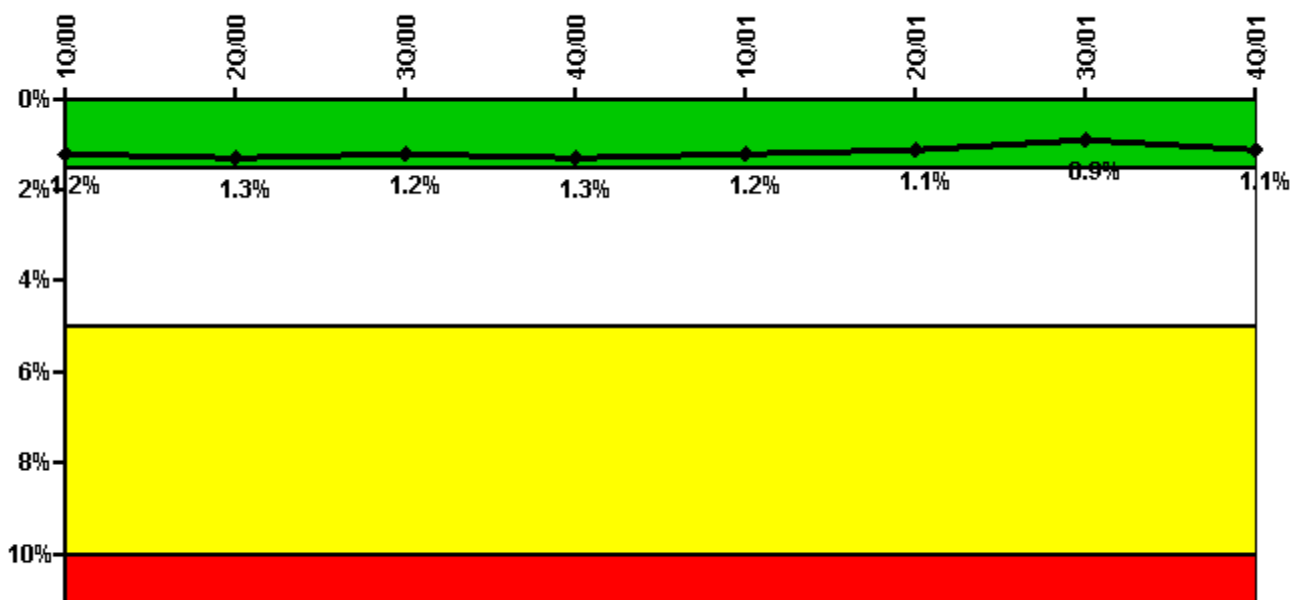
Thresholds: White > 4.0% Yellow > 12.0% Red > 50.0%

Notes

Safety System Unavailability, Heat Removal System (RCIC)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	64.67	0	22.88	0	11.68	0	13.00	1.00
Unplanned unavailable hours	0	32.48	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2085.70	2140.90	2208.00	2209.00	2160.00	1197.10	2159.50	2083.00
Indicator value	1.0%	1.1%	1.2%	1.1%	0.9%	0.9%	0.9%	0.9%

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System



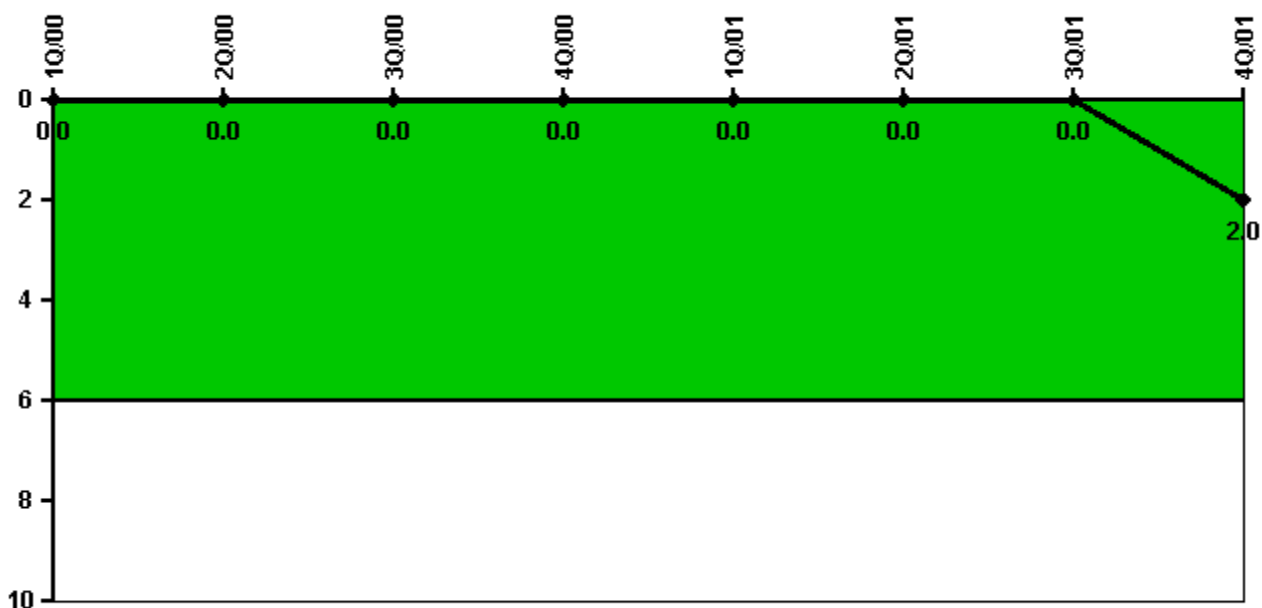
Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

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	0.30	0	6.28	25.08	16.42	0	0	110.12
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	76.30	34.07	0	42.73	6.80	0	37.38	44.28
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	1.2%	1.3%	1.2%	1.3%	1.2%	1.1%	0.9%	1.1%

Licensee Comments: none

Safety System Functional Failures (BWR)



Thresholds: White > 6.0

Notes

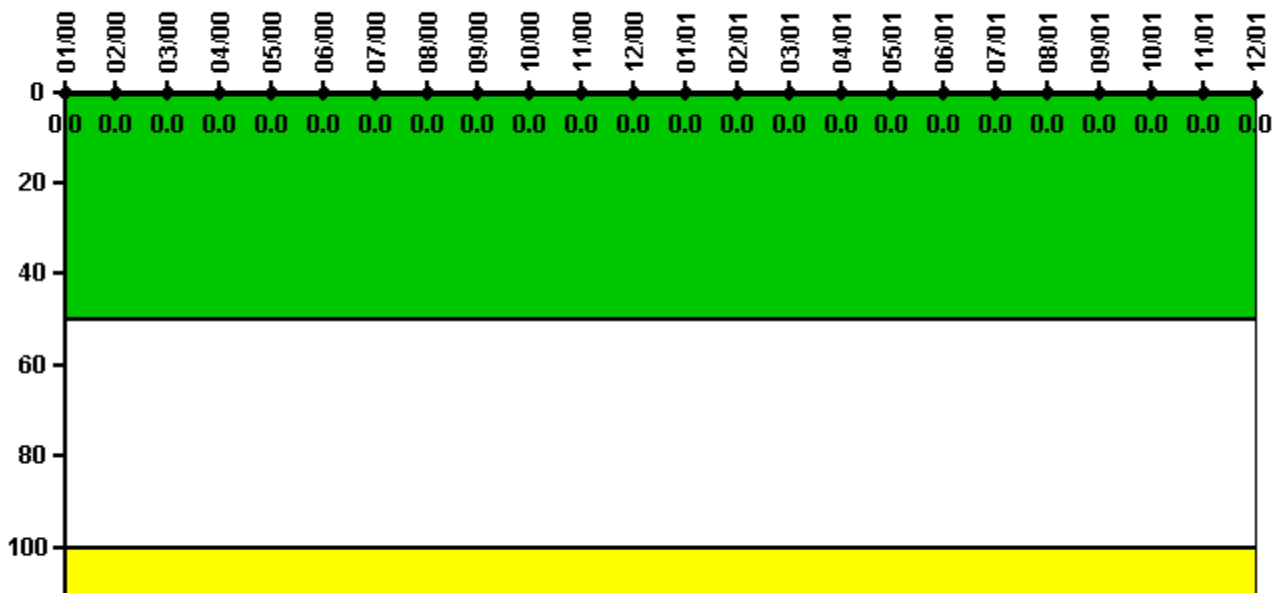
Safety System Functional Failures (BWR)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Safety System Functional Failures	0	0	0	0	0	0	0	2
Indicator value	0	0	0	0	0	0	0	2

Licensee Comments:

4Q/01: LER 2001-002, which was counted as an SSFF for 3rd qtr 2001, was formally withdrawn during the 4th qtr.

3Q/01: In December, 2001, NMC submitted a formal withdrawal of LER 2001-002, which had been counted as an SSFF in the 3rd qtr 2001.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

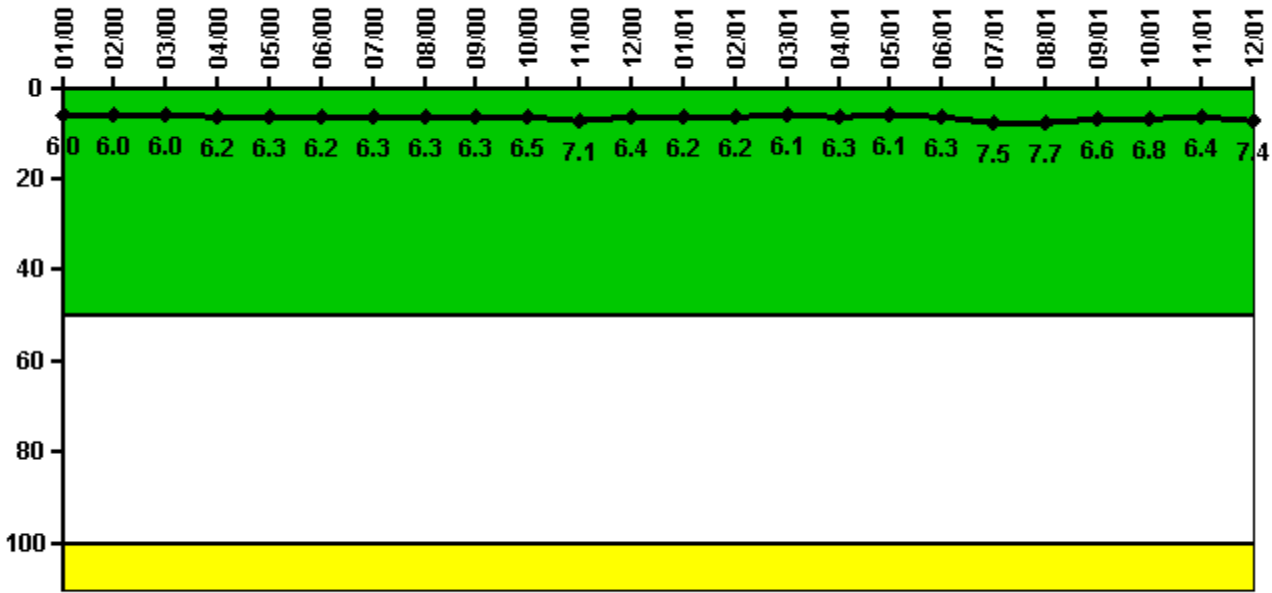
Notes

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	0.000005	0	0.000004	0	0	0.000003	0	0.000003	0.000031	0	0.000004	0
Technical specification limit	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

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	0.000002	0	0	0	0	0	0	0	0.000002	0	0
Technical specification limit	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.2	0.2	0.2	0.2	0.2
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

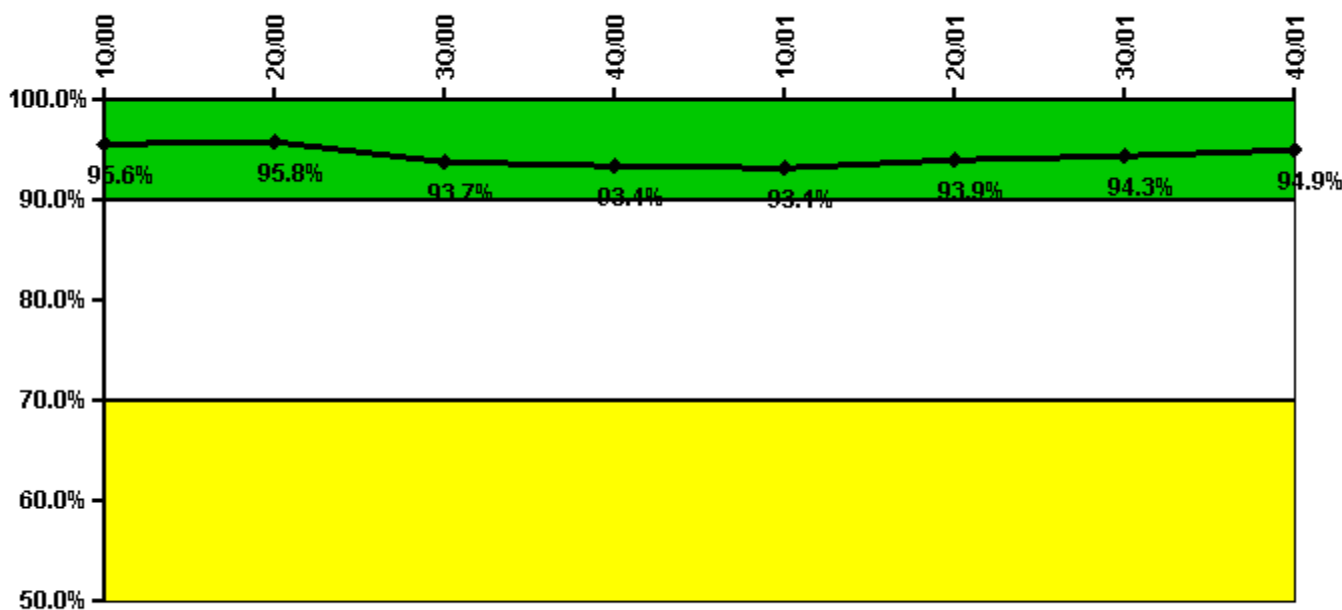
Notes

Reactor Coolant System Leakage	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage	1.500	1.500	1.500	1.540	1.570	1.550	1.570	1.570	1.580	1.620	1.780	1.590
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	6.0	6.0	6.0	6.2	6.3	6.2	6.3	6.3	6.3	6.5	7.1	6.4

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	1.550	1.540	1.530	1.580	1.530	1.570	1.880	1.920	1.640	1.690	1.600	1.850
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	6.2	6.2	6.1	6.3	6.1	6.3	7.5	7.7	6.6	6.8	6.4	7.4

Licensee Comments: none

Drill/Exercise Performance



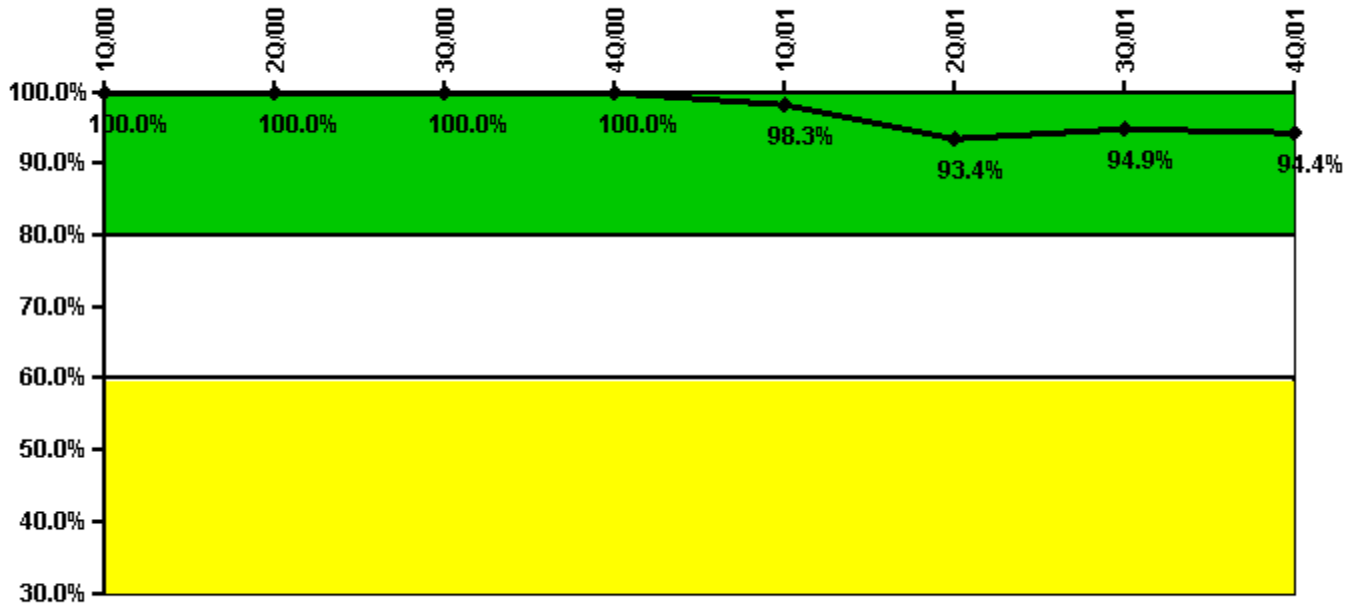
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful opportunities	15.0	29.0	12.0	9.0	8.0	32.0	27.0	56.0
Total opportunities	17.0	30.0	15.0	9.0	8.0	32.0	29.0	58.0
Indicator value	95.6%	95.8%	93.7%	93.4%	93.1%	93.9%	94.3%	94.9%

Licensee Comments: none

ERO Drill Participation



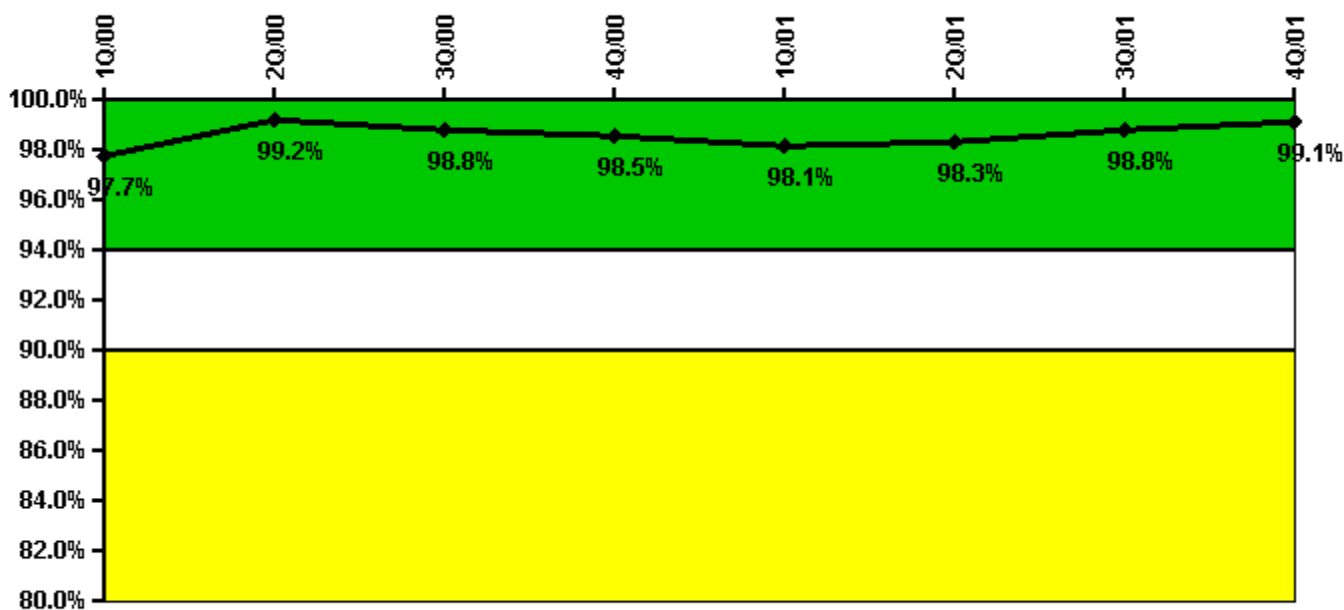
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Participating Key personnel	55.0	55.0	58.0	52.0	59.0	57.0	56.0	51.0
Total Key personnel	55.0	55.0	58.0	52.0	60.0	61.0	59.0	54.0
Indicator value	100.0%	100.0%	100.0%	100.0%	98.3%	93.4%	94.9%	94.4%

Licensee Comments: none

Alert & Notification System



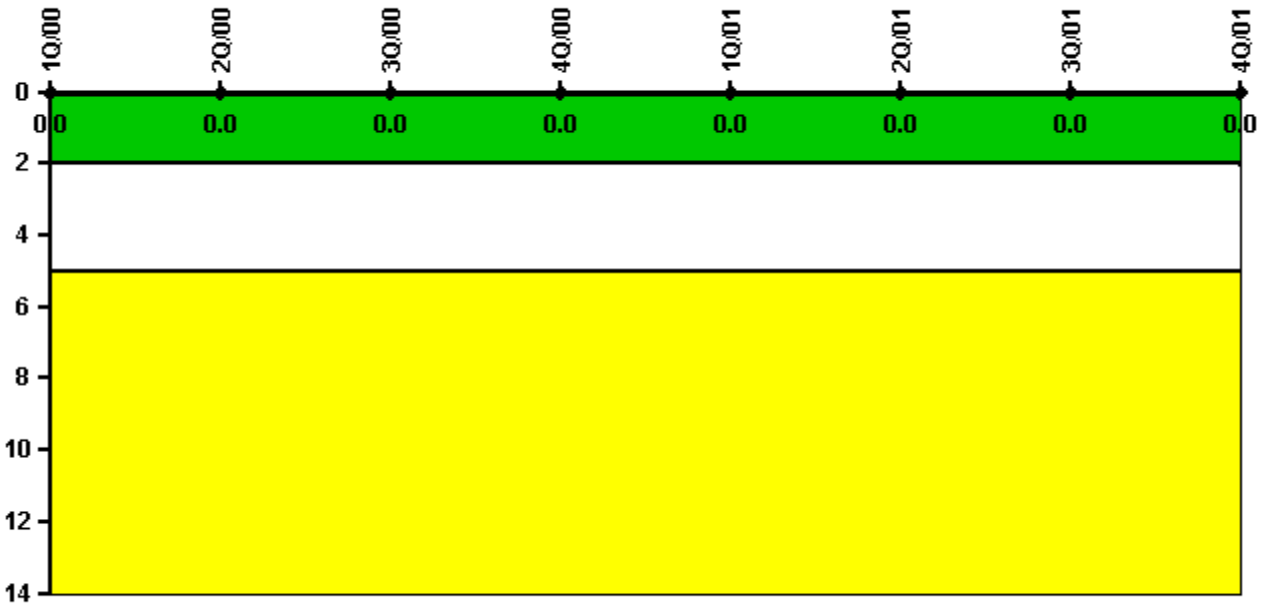
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful siren-tests	429	423	415	423	422	426	425	427
Total sirens-tests	429	429	429	429	429	429	429	429
Indicator value	97.7%	99.2%	98.8%	98.5%	98.1%	98.3%	98.8%	99.1%

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	0	0	0	0	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



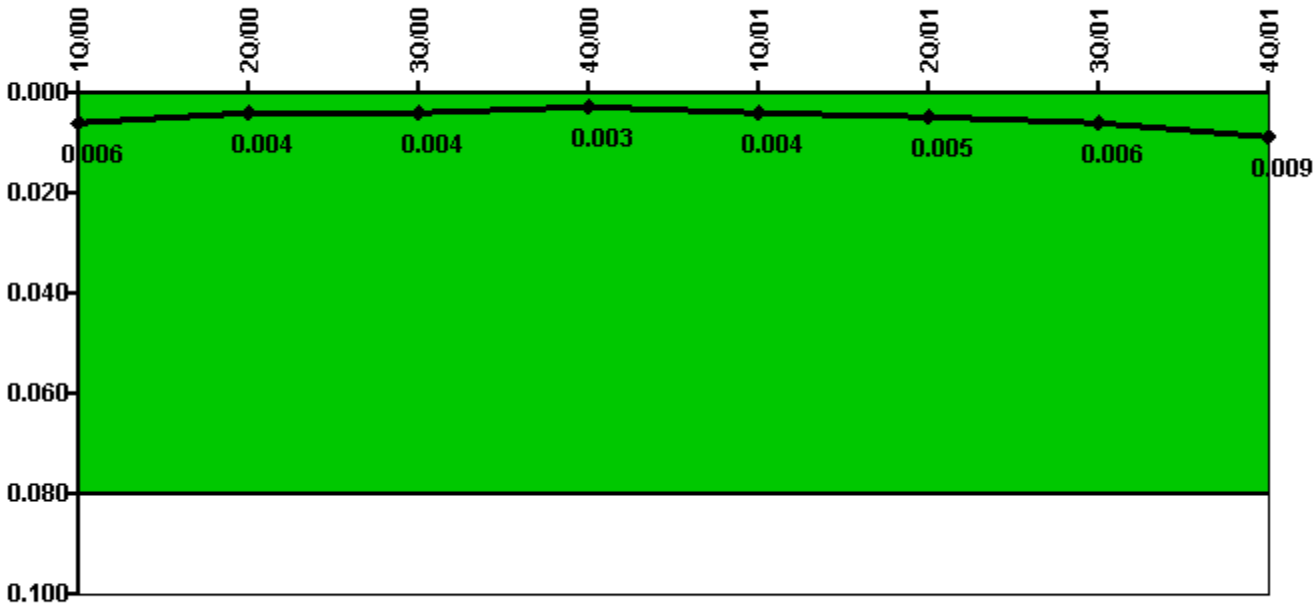
Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Protected Area Security Performance Index



Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
IDS compensatory hours	21.36	2.55	9.09	29.93	42.49	9.39	33.51	21.52
CCTV compensatory hours	0	0	0.7	0.4	5.3	2.2	0.3	62.7
IDS normalization factor	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	0.006	0.004	0.004	0.003	0.004	0.005	0.006	0.009

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