

Catawba 2

3Q/2004 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



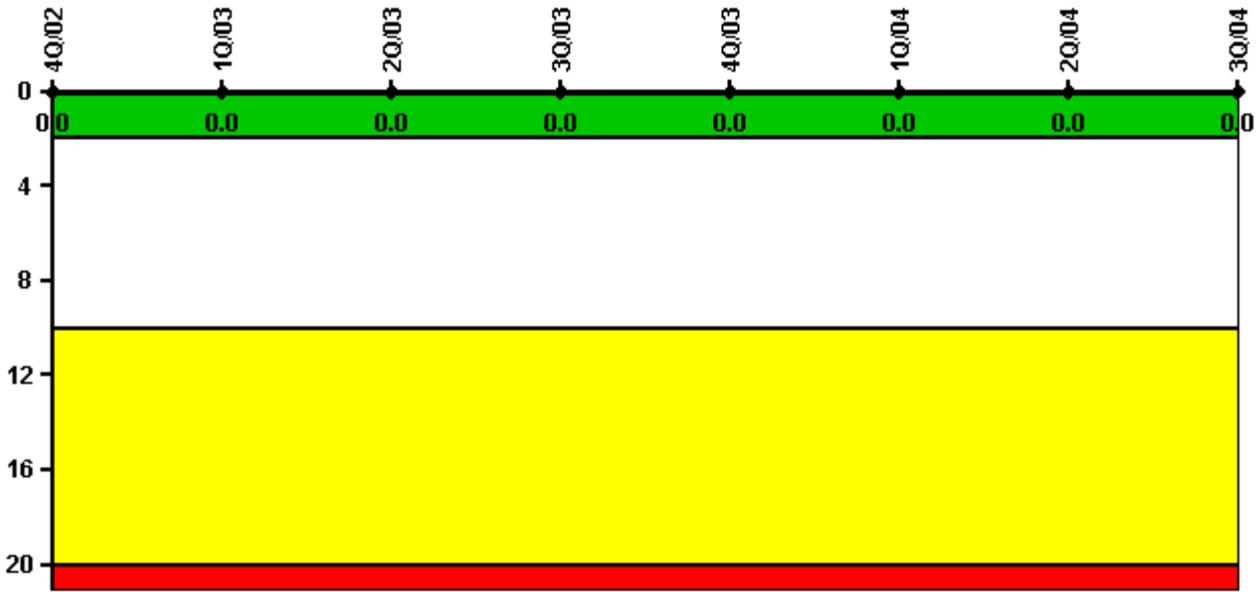
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	0	0	0	0	0
Critical hours	2209.0	1548.5	2183.0	2208.0	2209.0	2184.0	2183.0	1733.2
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Scrams with Loss of Normal Heat Removal



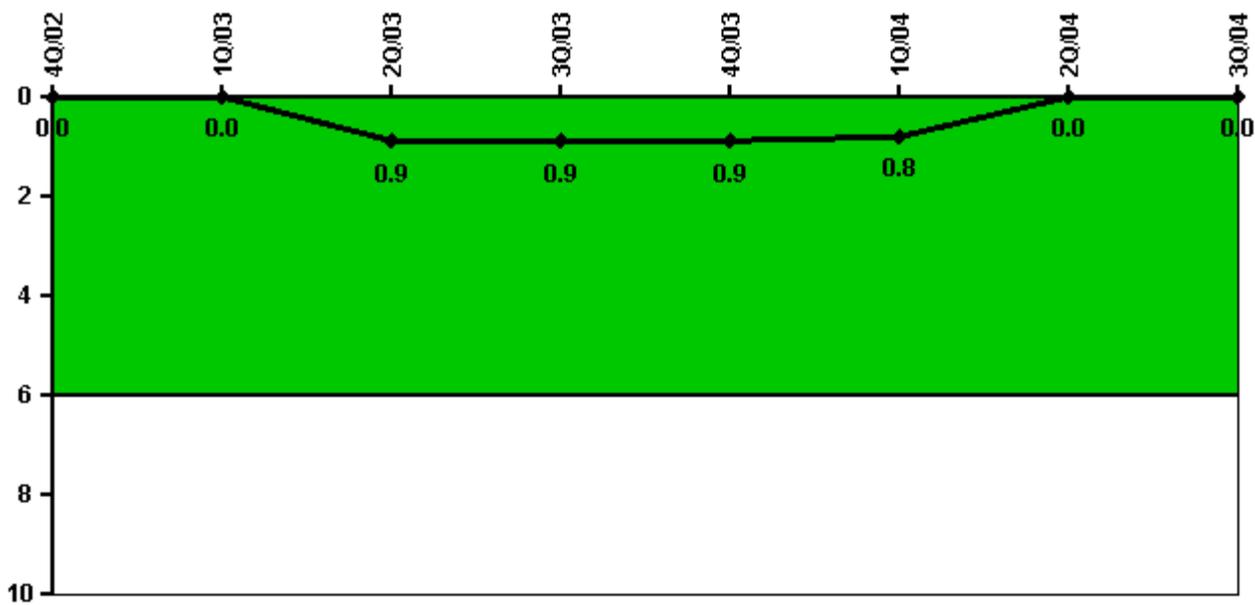
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

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

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



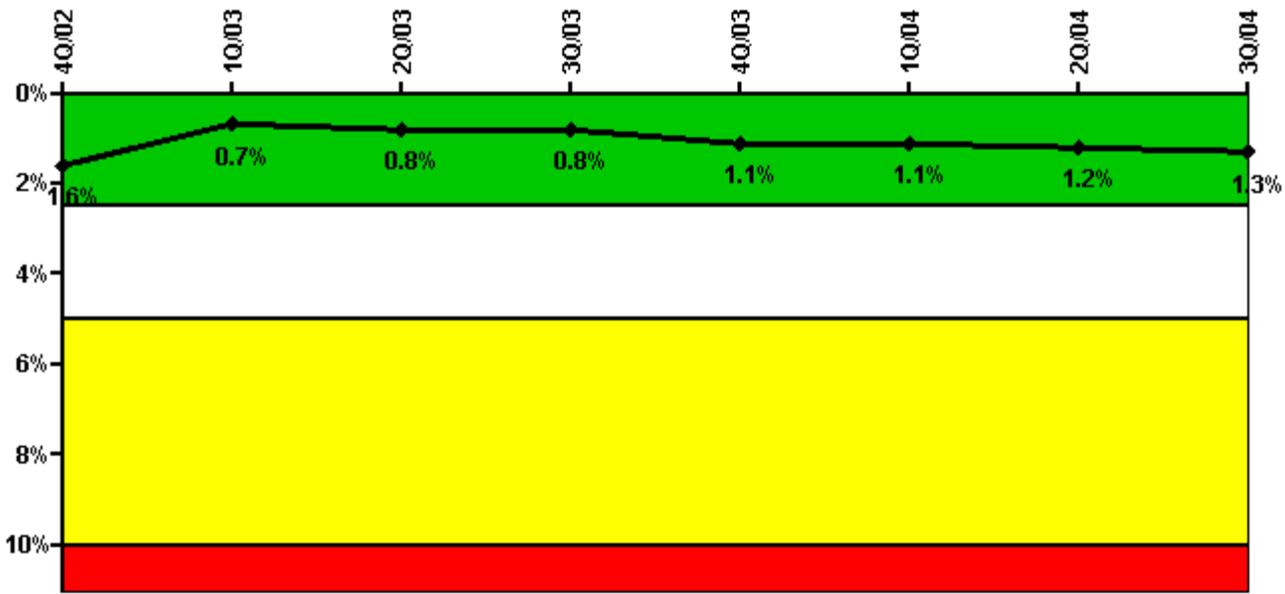
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	2209.0	1548.5	2183.0	2208.0	2209.0	2184.0	2183.0	1733.2
Indicator value	0	0	0.9	0.9	0.9	0.8	0	0

Licensee Comments: none

Safety System Unavailability, Emergency AC Power



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

Notes

Safety System Unavailability, Emergency AC Power	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	44.67	64.83	3.32	35.29	38.53	4.92	26.00	2.38
Unplanned unavailable hours	0	0	0	0	0	5.63	5.68	0.73
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	15.97	50.98	38.59	5.29	86.87	3.45	27.30	31.14
Unplanned unavailable hours	0	0	0	0	67.08	1.15	1.10	14.73
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	1.6%	0.7%	0.8%	0.8%	1.1%	1.1%	1.2%	1.3%

Licensee Comments:

2Q/04: This submittal includes unavailability due to SSPS testing based on FAQ 290. No change in threshold occurred as a result of the amended data. (Comment 3Q2004)

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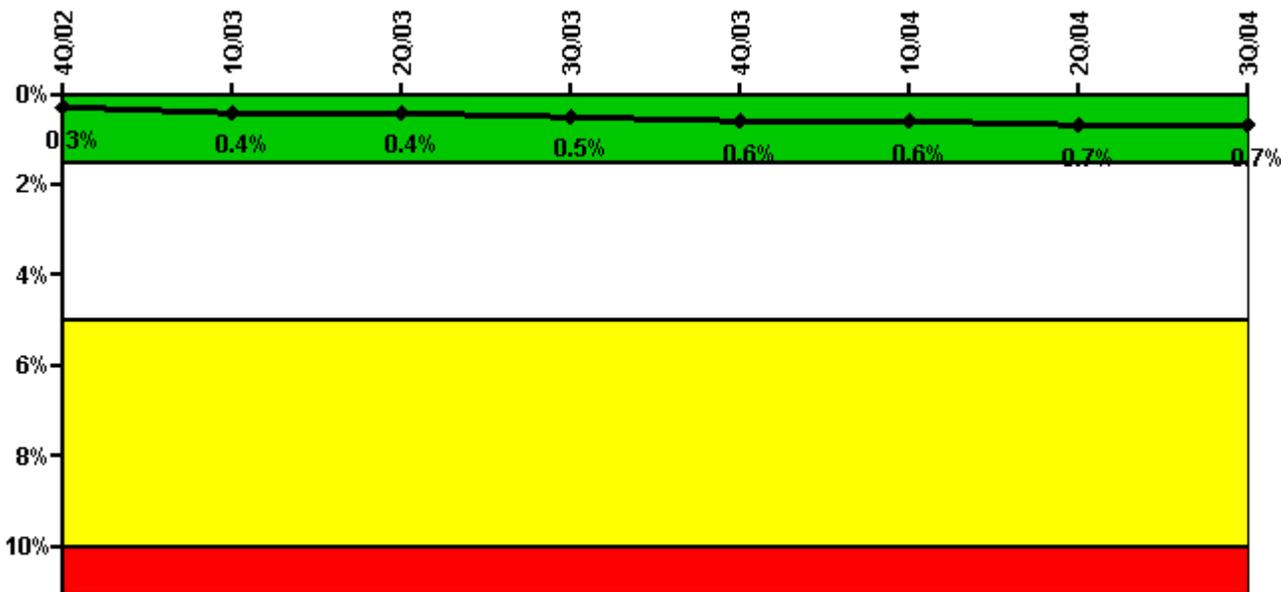
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4Q/01: This submittal includes unavailability due to SSPS testing based on FAQ 290. No change in threshold occurred as a result of the amended data. (Comment 3Q2004)

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	14.64	2.08	3.67	10.85	32.46	6.49	17.81	16.08
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1548.50	2183.00	2208.00	2209.00	2184.00	2183.00	1733.20
Train 2								
Planned unavailable hours	4.98	12.63	17.69	13.67	41.68	13.70	5.64	20.70

Unplanned unavailable hours	0	0	0	0	3.50	0	10.43	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1548.50	2183.00	2208.00	2209.00	2184.00	2183.00	1733.20
Train 3								
Planned unavailable hours	19.86	1.83	13.82	15.37	31.96	12.62	4.95	4.76
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	1548.50	2183.00	2208.00	2209.00	2184.00	2183.00	1733.20
Train 4								
Planned unavailable hours	14.20	12.33	32.84	29.84	41.13	3.45	14.48	13.72
Unplanned unavailable hours	0	0	0	0	3.50	0	10.43	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1548.50	2183.00	2208.00	2209.00	2184.00	2183.00	1733.20
Indicator value	0.3%	0.4%	0.4%	0.5%	0.6%	0.6%	0.7%	0.7%

Licensee Comments:

2Q/04: This submittal includes unavailability due to SSPS testing based on FAQ 290. No change in threshold occurred as a result of the amended data. (Comment 3Q2004)

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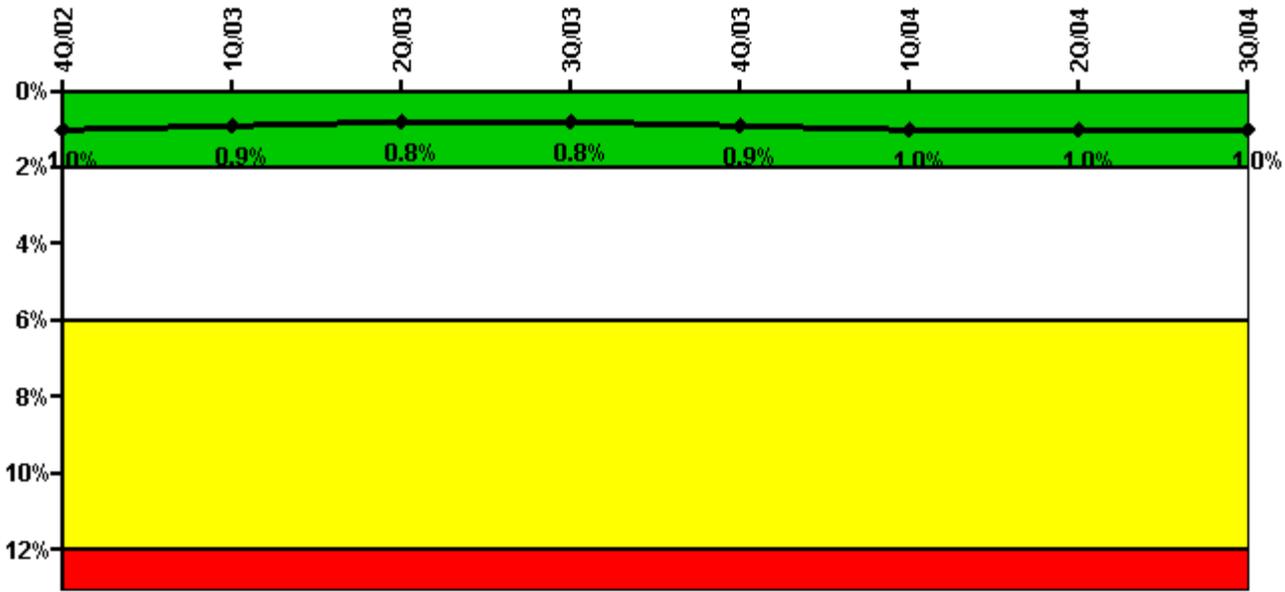
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Safety System Unavailability, Heat Removal System (AFW)



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	45.04	23.70	14.59	24.27	33.93	8.18	11.28	9.40
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1591.60	2183.00	2208.00	2209.00	2184.00	2183.00	1737.50
Train 2								
Planned unavailable hours	5.33	46.10	18.87	26.56	69.10	35.48	8.46	25.92
Unplanned unavailable hours	1.07	0	0	0	3.50	0	10.43	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1591.60	2183.00	2208.00	2209.00	2184.00	2183.00	1737.50
Train 3								
Planned unavailable hours	0.68	7.02	19.47	13.17	12.60	12.48	9.43	4.68
Unplanned unavailable hours	14.75	1.83	0	0	0	0	0	7.42
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1591.60	2183.00	2208.00	2209.00	2184.00	2183.00	1737.50
Indicator value	1.0%	0.9%	0.8%	0.8%	0.9%	1.0%	1.0%	1.0%

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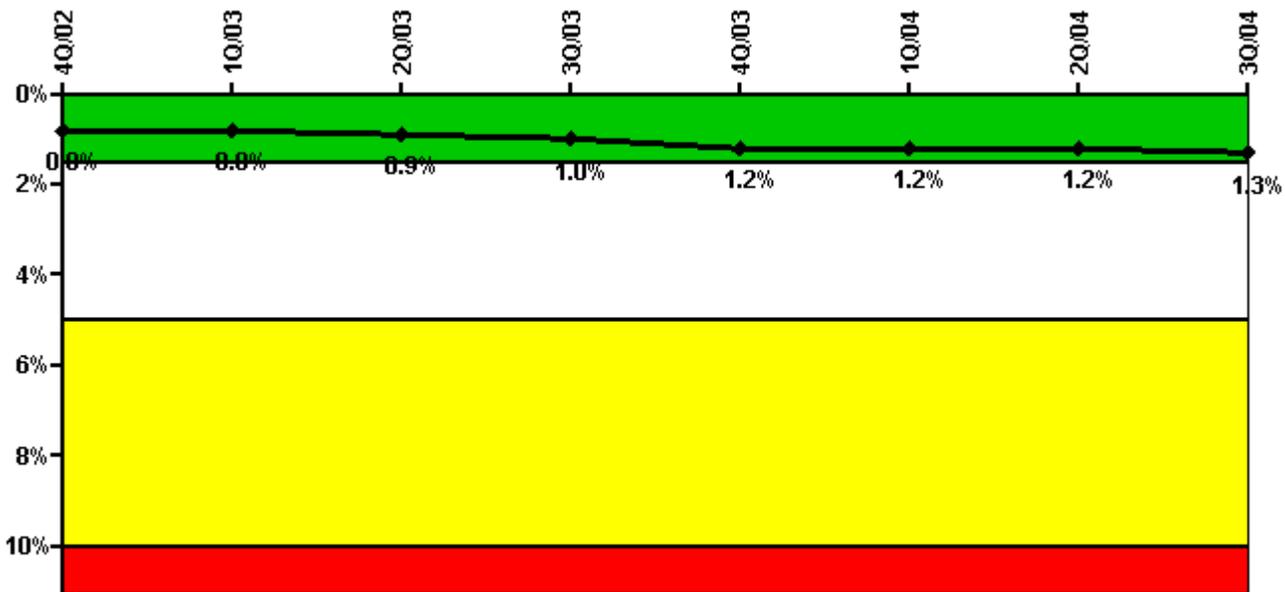
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4Q/01: This submittal includes unavailability due to SSPS testing based on FAQ 290. No change in threshold occurred as a result of the amended data. (Comment 3Q2004)

Safety System Unavailability, Residual Heat Removal System



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

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	29.48	2.18	3.64	25.45	32.33	30.94	5.40	11.89

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	1904.10
Train 2								
Planned unavailable hours	30.25	63.08	86.84	25.61	69.23	3.45	20.15	29.38
Unplanned unavailable hours	0	0	0	0	3.50	0	10.43	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2184.00	2183.00	1904.10
Indicator value	0.8%	0.8%	0.9%	1.0%	1.2%	1.2%	1.2%	1.3%

Licensee Comments:

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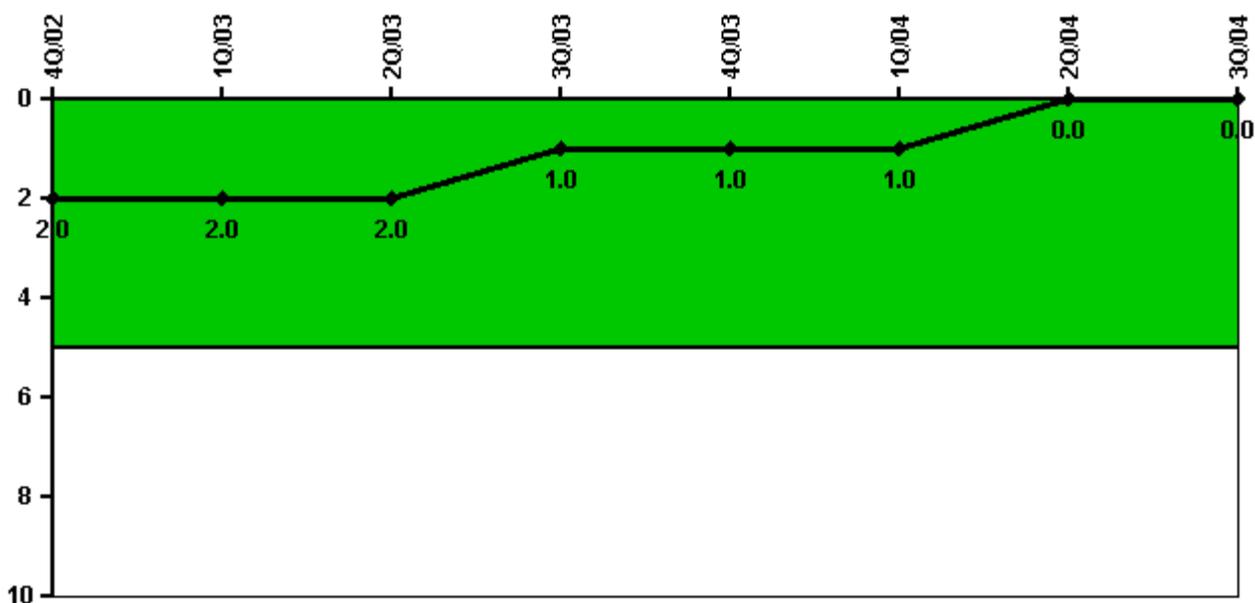
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Safety System Functional Failures (PWR)



Thresholds: White > 5.0

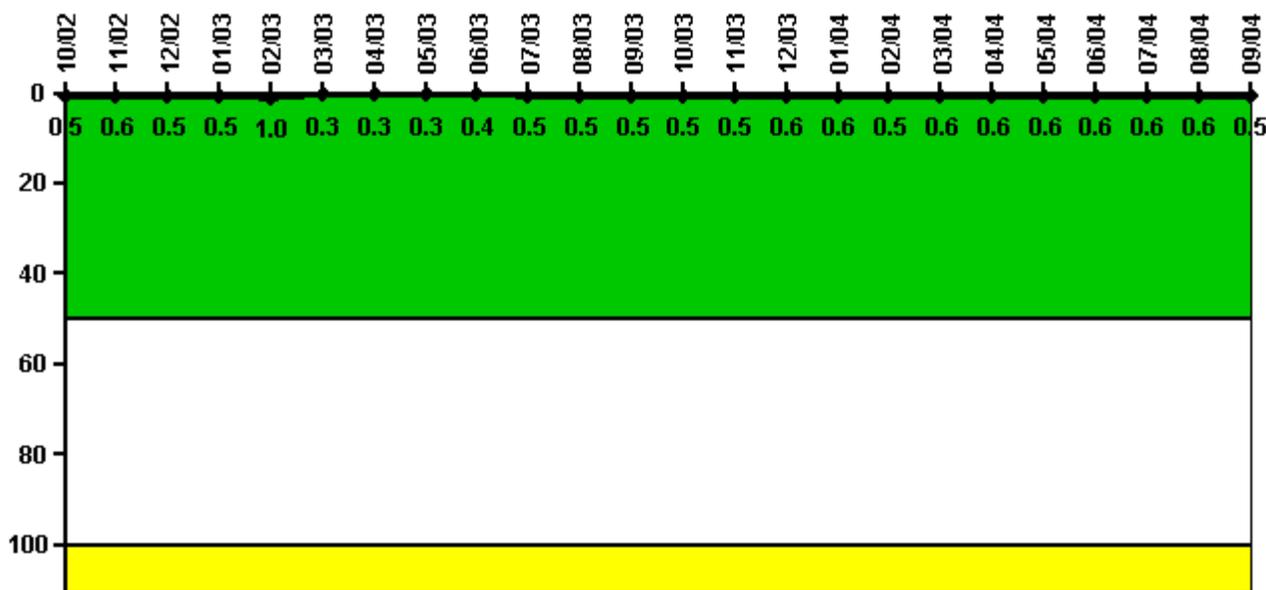
Notes

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

Licensee Comments:

2Q/02: This submittal includes unavailability due to SSPS testing based on FAQ 290. No change in threshold occurred as a result of the amended data. (Comment 3Q2004)

Reactor Coolant System Activity



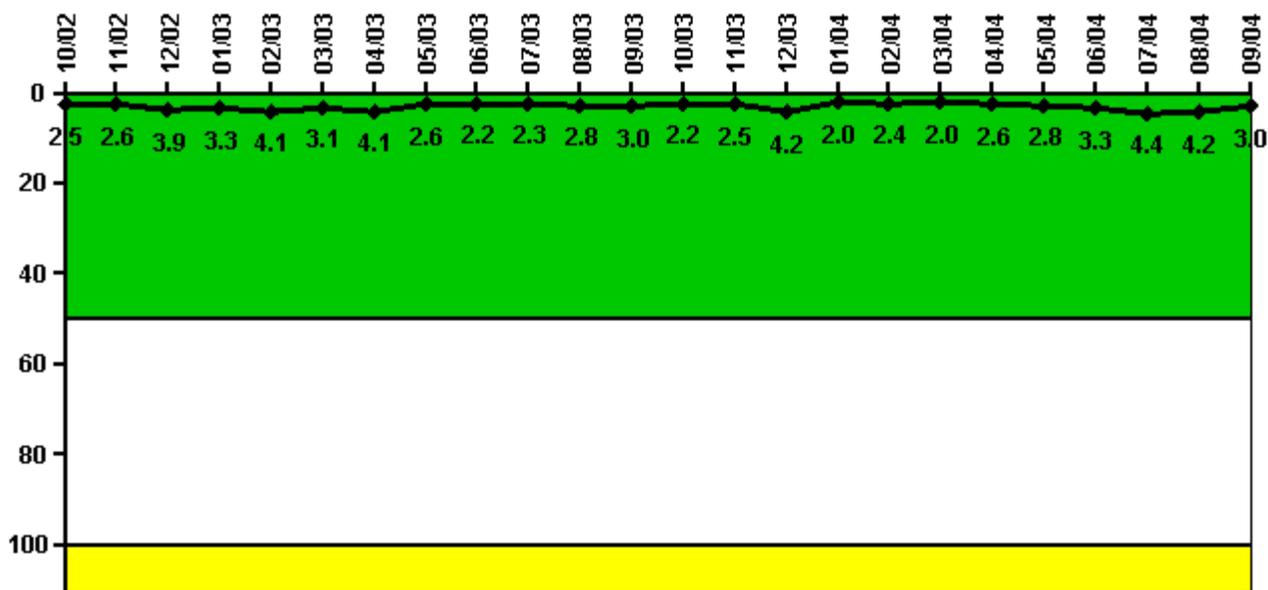
Thresholds: White > 50.0 Yellow > 100.0

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	0.000350	0.000380	0.000350	0.000340	0.000622	0.000170	0.000190	0.000213	0.000245	0.000290	0.000310	0.000310
Technical specification limit	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Indicator value	0.5	0.6	0.5	0.5	1.0	0.3	0.3	0.3	0.4	0.5	0.5	0.5
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	0.000341	0.000340	0.000353	0.000352	0.000344	0.000405	0.000357	0.000376	0.000392	0.000368	0.000373	0.000299
Technical specification limit	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Indicator value	0.5	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.5

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

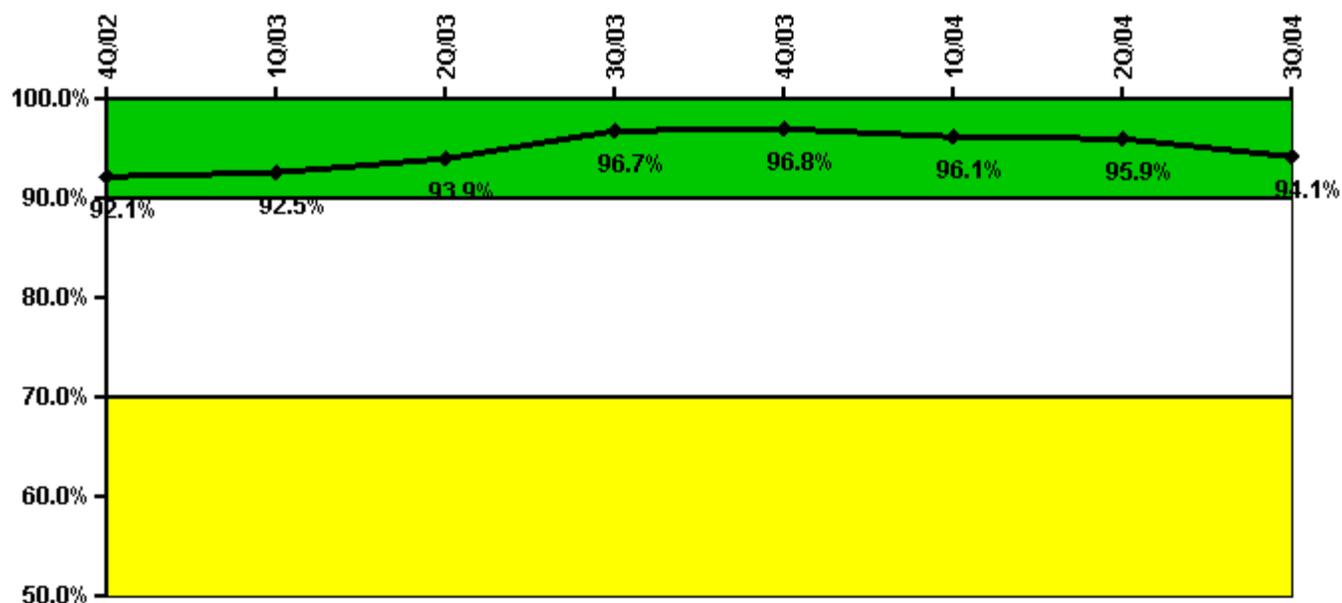
Notes

Reactor Coolant System Leakage	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum leakage	0.253	0.256	0.387	0.332	0.409	0.314	0.406	0.260	0.220	0.230	0.276	0.302
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.5	2.6	3.9	3.3	4.1	3.1	4.1	2.6	2.2	2.3	2.8	3.0

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	0.223	0.245	0.418	0.197	0.241	0.202	0.264	0.278	0.328	0.444	0.423	0.298
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	2.2	2.5	4.2	2.0	2.4	2.0	2.6	2.8	3.3	4.4	4.2	3.0

Licensee Comments: none

Drill/Exercise Performance



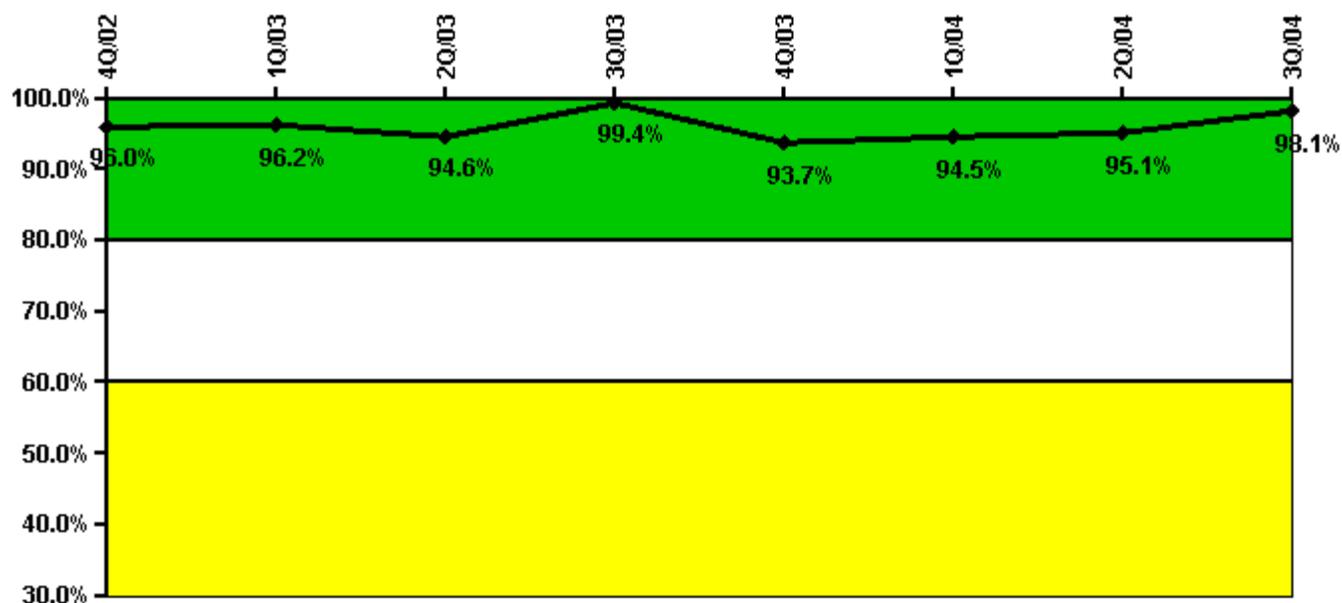
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful opportunities	40.0	18.0	78.0	80.0	22.0	25.0	19.0	66.0
Total opportunities	46.0	18.0	78.0	82.0	22.0	28.0	20.0	76.0
Indicator value	92.1%	92.5%	93.9%	96.7%	96.8%	96.1%	95.9%	94.1%

Licensee Comments: none

ERO Drill Participation



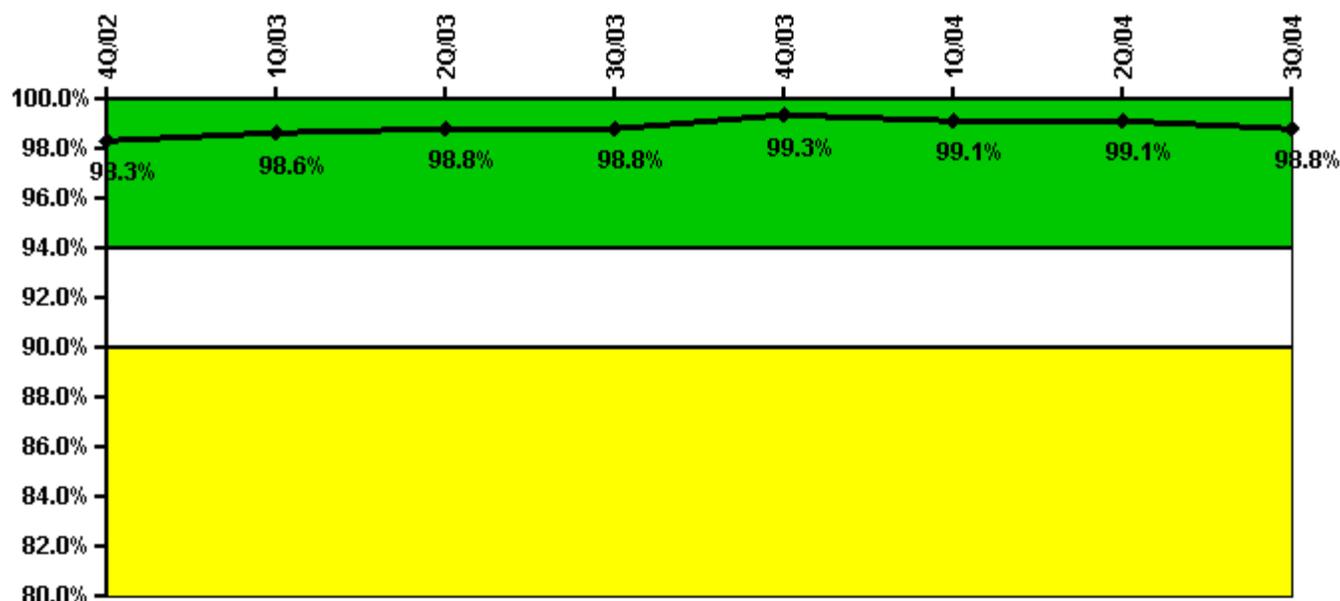
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Participating Key personnel	192.0	177.0	175.0	159.0	149.0	154.0	154.0	156.0
Total Key personnel	200.0	184.0	185.0	160.0	159.0	163.0	162.0	159.0
Indicator value	96.0%	96.2%	94.6%	99.4%	93.7%	94.5%	95.1%	98.1%

Licensee Comments: none

Alert & Notification System



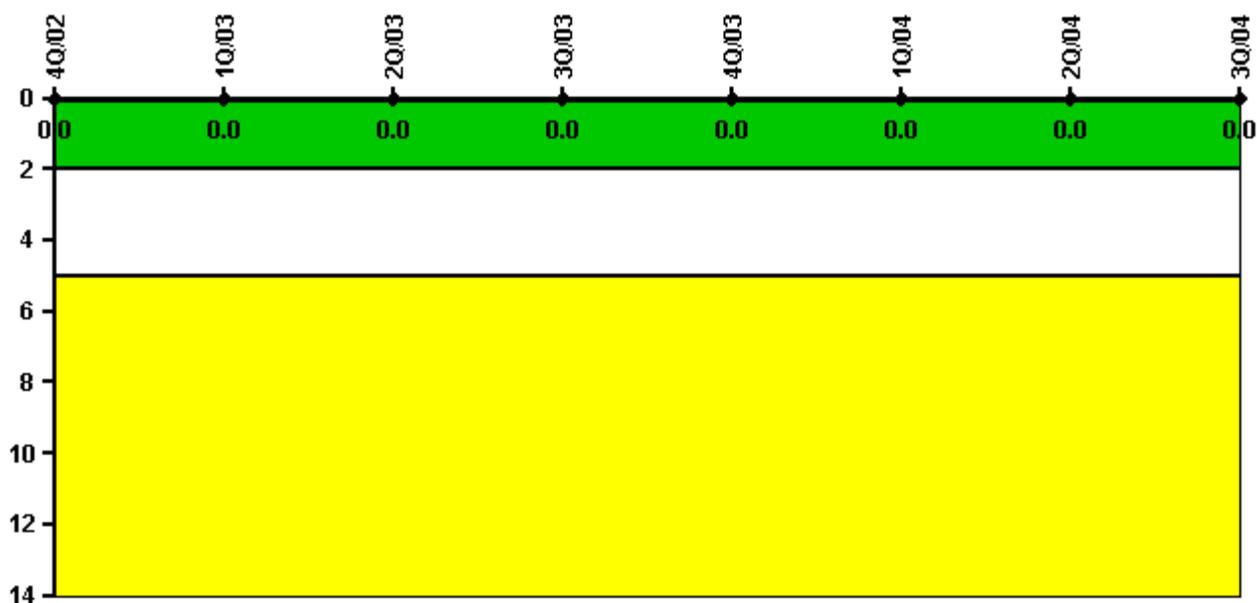
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful siren-tests	2248	2220	2386	2457	2375	2383	2384	2494
Total sirens-tests	2302	2225	2403	2492	2388	2403	2403	2560
Indicator value	98.3%	98.6%	98.8%	98.8%	99.3%	99.1%	99.1%	98.8%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

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.