

# Brunswick 1

## 3Q/2006 Performance Indicators

Licensee's General Comments: Indicator values for Q2/2006 are different from previous submittal. See individual indicators for comments and Q3/2006 File submitted.

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2209.0	2160.0	2009.8	1957.8	2209.0	1487.0	2047.2	1923.3
Indicator value	0.9	0.8	0.8	0.8	0.8	0.9	0.9	0

Licensee Comments: none

### Scrams with Loss of Normal Heat Removal



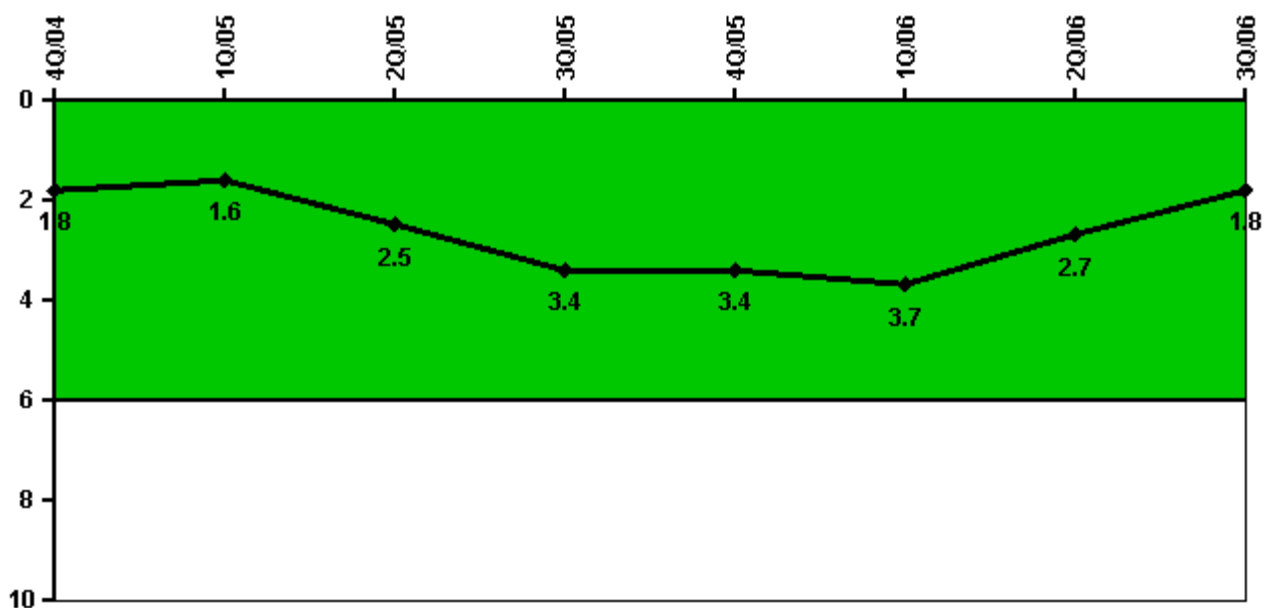
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

#### Notes

Scrams with Loss of Normal Heat Removal	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

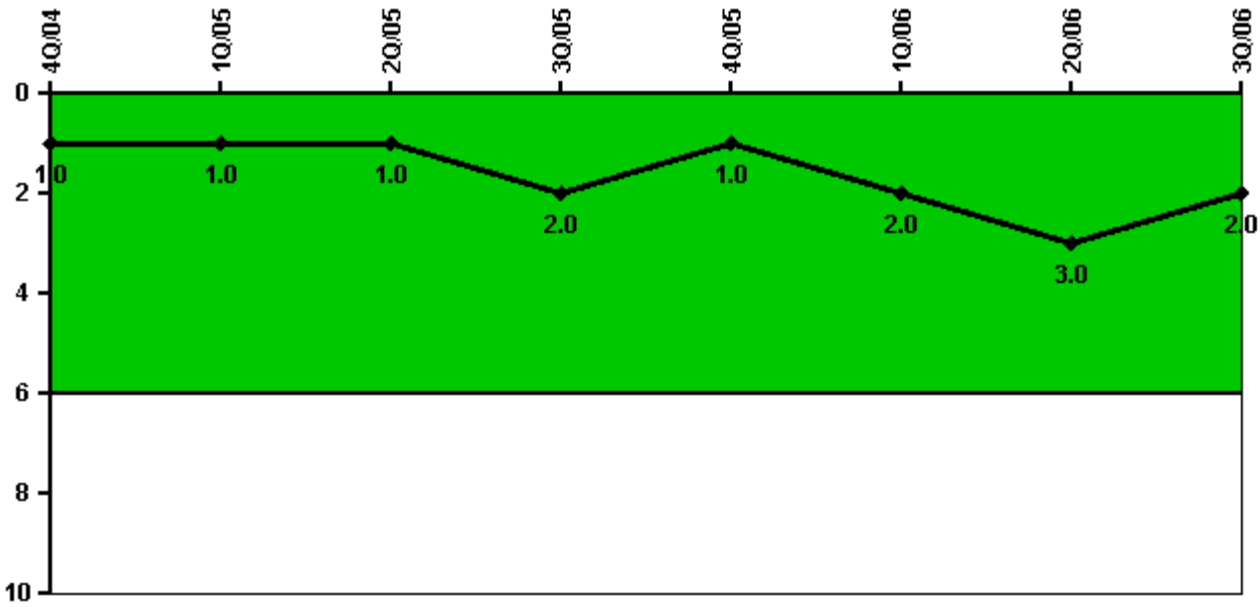
#### Notes

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	0	1.0	1.0	2.0	0	1.0	0	1.0
Critical hours	2209.0	2160.0	2009.8	1957.8	2209.0	1487.0	2047.2	1923.3
Indicator value	1.8	1.6	2.5	3.4	3.4	3.7	2.7	1.8

Licensee Comments:

3Q/06: Unit 1 unplanned power change due to Condenser tube leak and repair of 1B South waterbox inlet piping.

### Safety System Functional Failures (BWR)



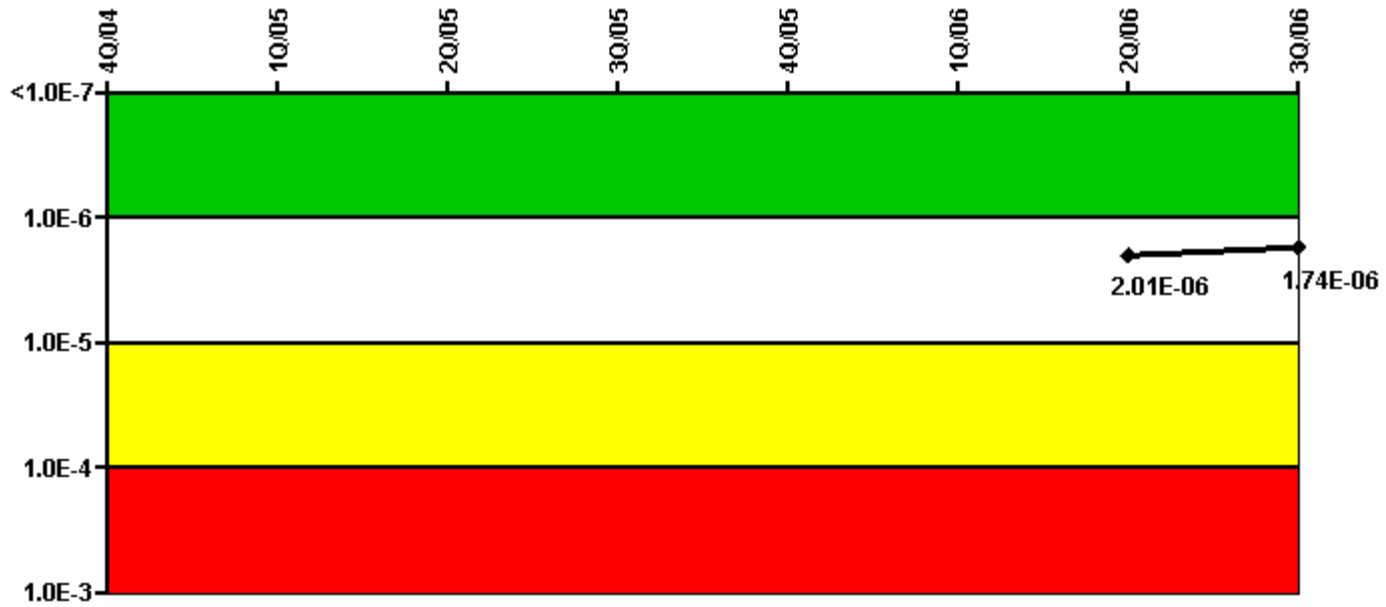
Thresholds: White > 6.0

#### Notes

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

Licensee Comments: none

### Mitigating Systems Performance Index, Emergency AC Power System



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

#### Notes

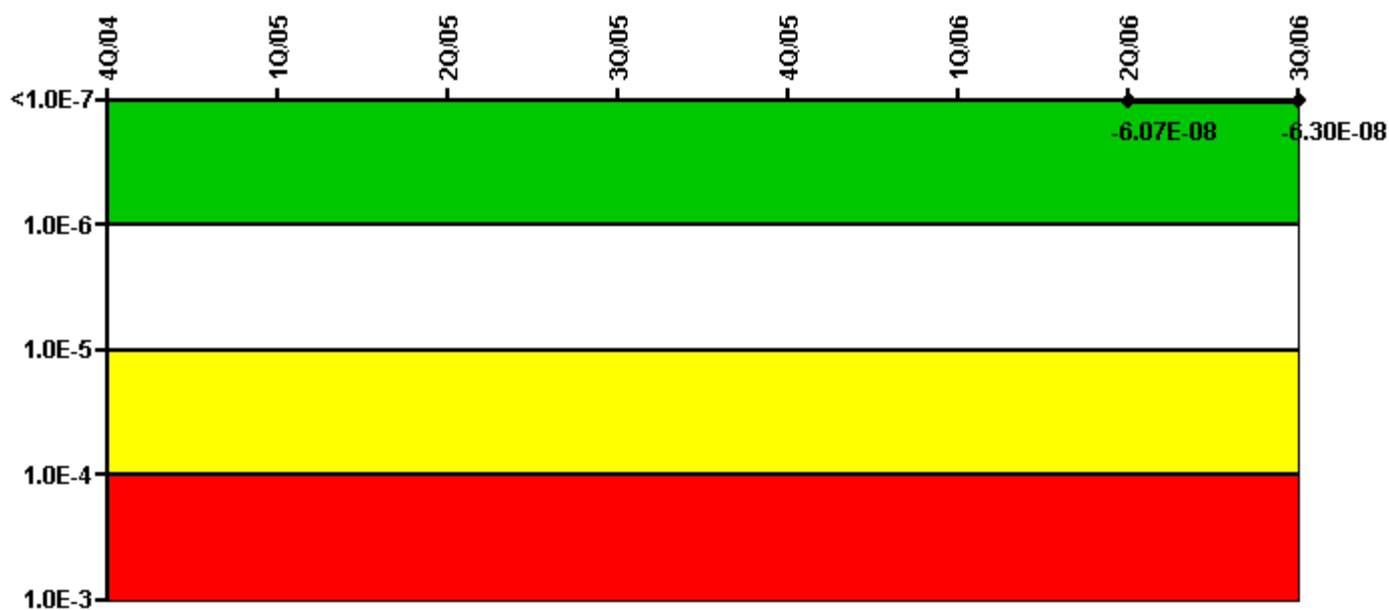
Mitigating Systems Performance Index, Emergency AC Power System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							9.20E-09	4.20E-08
URI (ΔCDF)							2.00E-06	1.70E-06
PLE							NO	NO
Indicator value							2.01E-06	1.74E-06

#### Licensee Comments:

3Q/06: Risk Cap Invoked. MS06: White threshold exceeded due to increased unreliability factor of Emergency Diesel Generators (EDGs). Six total MSPI failures between four DGs in the previous 36 months. Due to unique system configuration, failure on any one of four EDGs is counted against both Units. Revision to previously submitted data: Changed two MSPI failures from Start Demands to Load Run Demands, #1164 on 06/06/2004 and #1215 on 11/10/2004. Revised the Estimated Start and Load Run Demands in baseline. Indicator color unaffected. Change File created.

2Q/06: Risk Cap Invoked.

### Mitigating Systems Performance Index, High Pressure Injection System



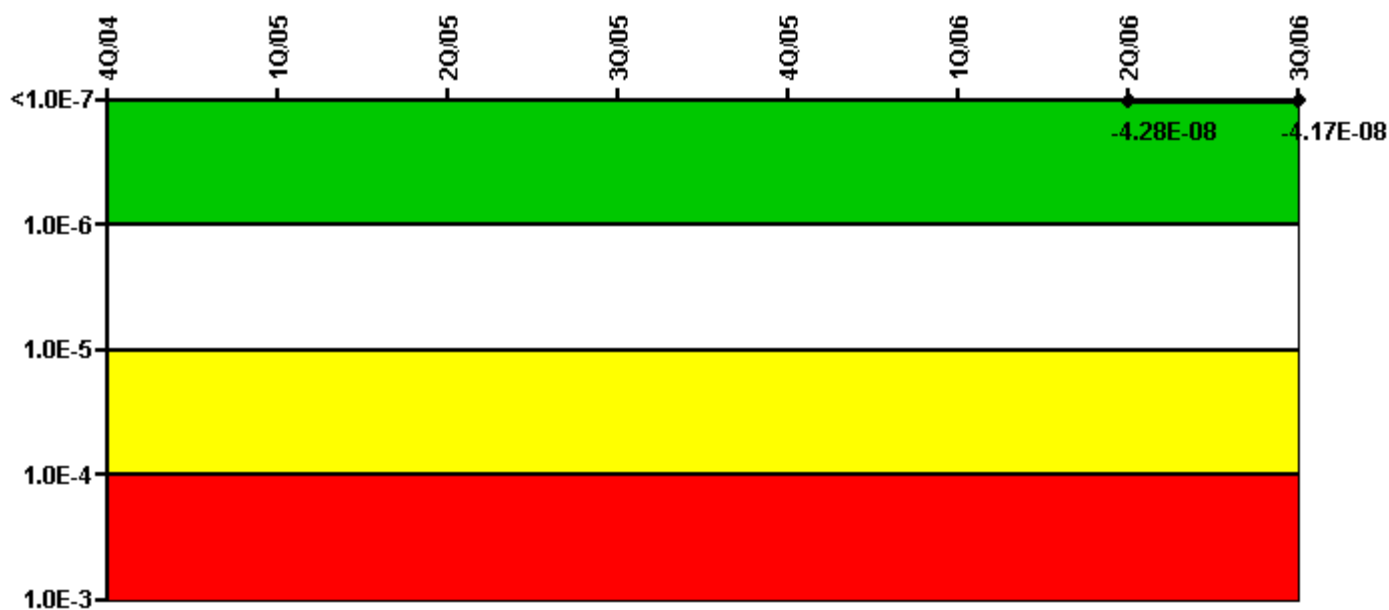
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI ( $\Delta$ CDF)							6.30E-09	4.00E-09
URI ( $\Delta$ CDF)							-6.70E-08	-6.70E-08
PLE							NO	NO
Indicator value							-6.07E-08	-6.30E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



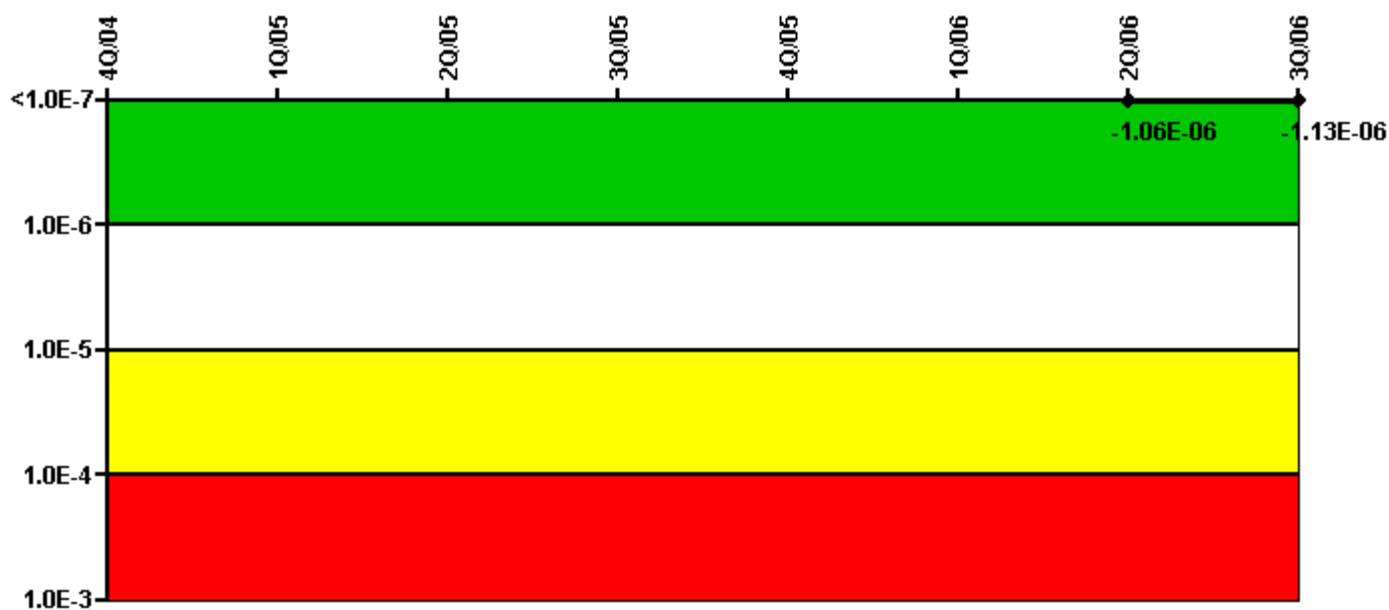
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

**Notes**

Mitigating Systems Performance Index, Heat Removal System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI ( $\Delta$ CDF)							-7.80E-09	-6.70E-09
URI ( $\Delta$ CDF)							-3.50E-08	-3.50E-08
PLE							NO	NO
Indicator value							-4.28E-08	-4.17E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Residual Heat Removal System



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

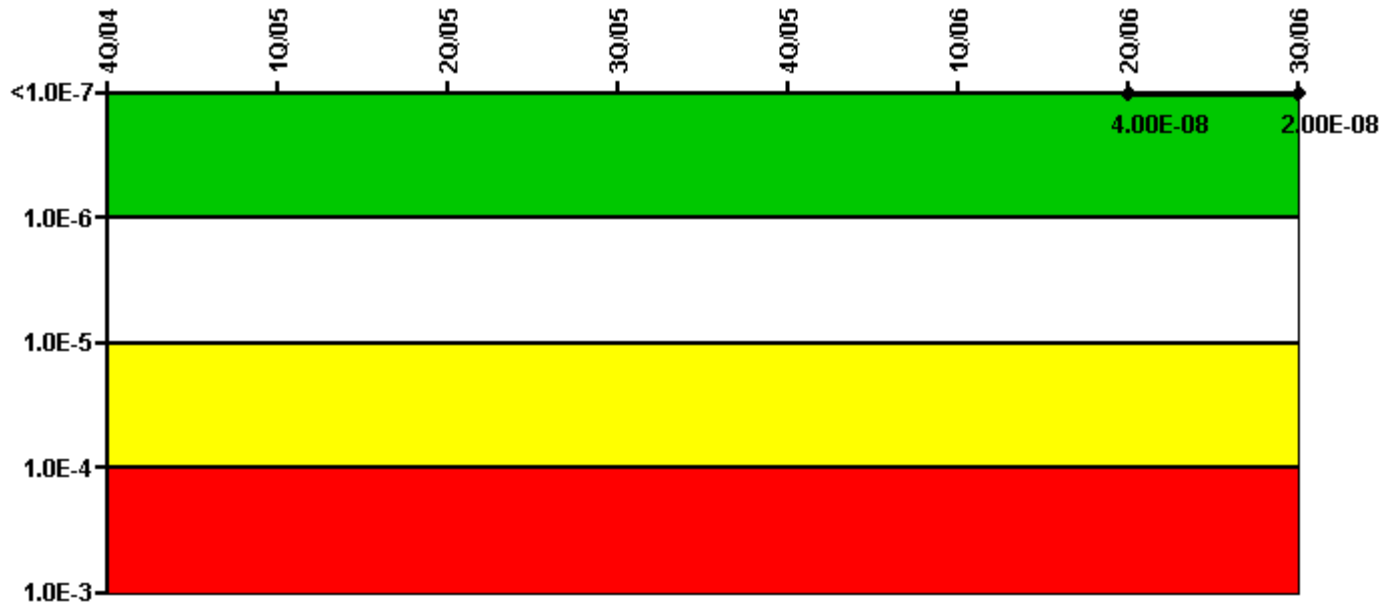
#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI ( $\Delta$ CDF)							7.40E-07	6.70E-07
URI ( $\Delta$ CDF)							-1.80E-06	-1.80E-06
PLE							NO	NO
Indicator value							-1.06E-06	-1.13E-06

Licensee Comments: none



### Mitigating Systems Performance Index, Cooling Water Systems



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

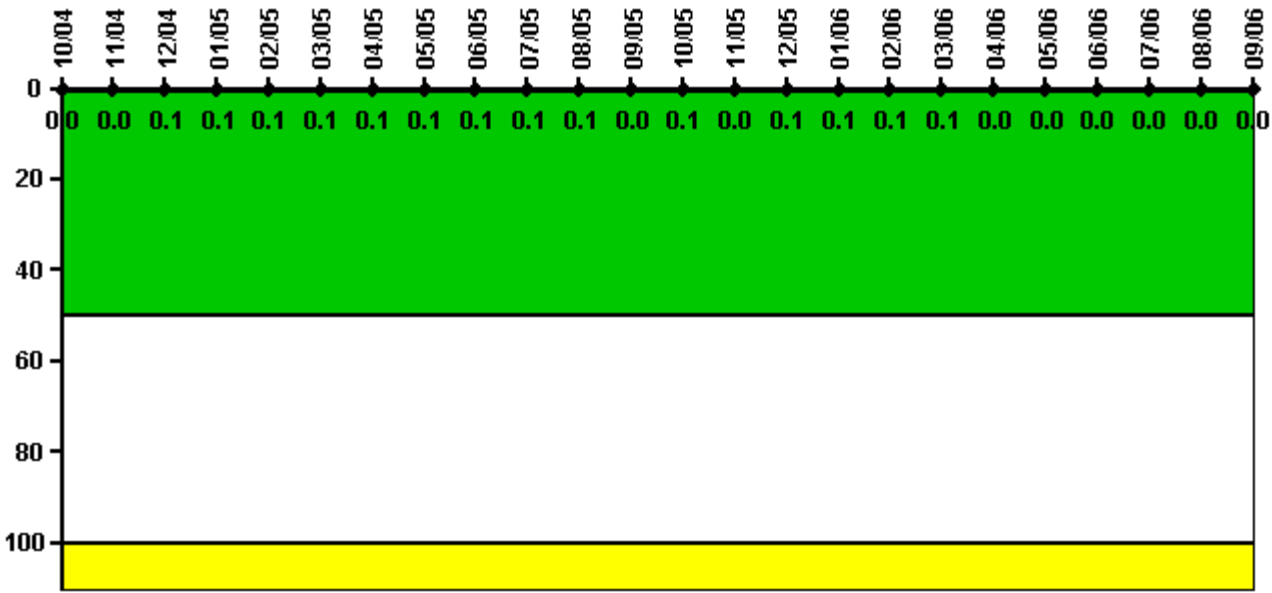
#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							2.40E-07	2.20E-07
URI (ΔCDF)							-2.00E-07	-2.00E-07
PLE							NO	NO
Indicator value							4.00E-08	2.00E-08

Licensee Comments:

3Q/06: Revision to previously submitted data: Added MSPI Failure #1420 on 09/10/2004. Indicator color unaffected. Change File created.

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

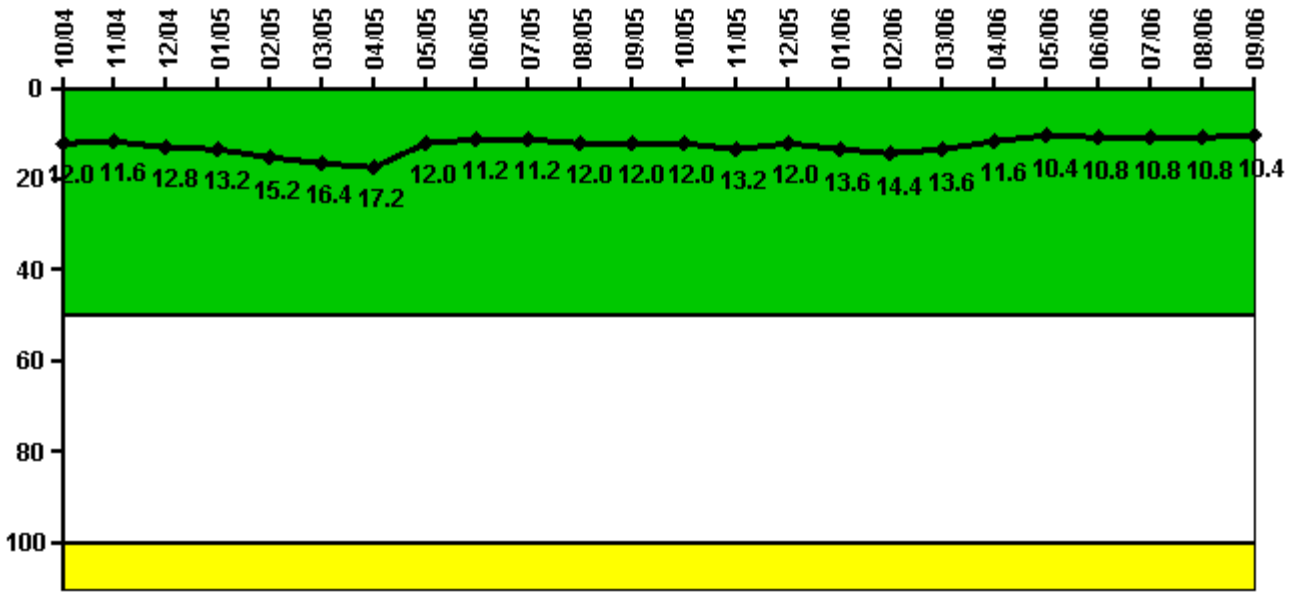
Reactor Coolant System Activity	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum activity	0.000099	0.000091	0.000117	0.000107	0.000164	0.000147	0.000105	0.000112	0.000107	0.000122	0.000138	0.000093
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0

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	0.000104	0.000096	0.000118	0.000152	0.000151	0.000132	0.000079	0.000083	0.000086	0.000085	0.000089	0.000090
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	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

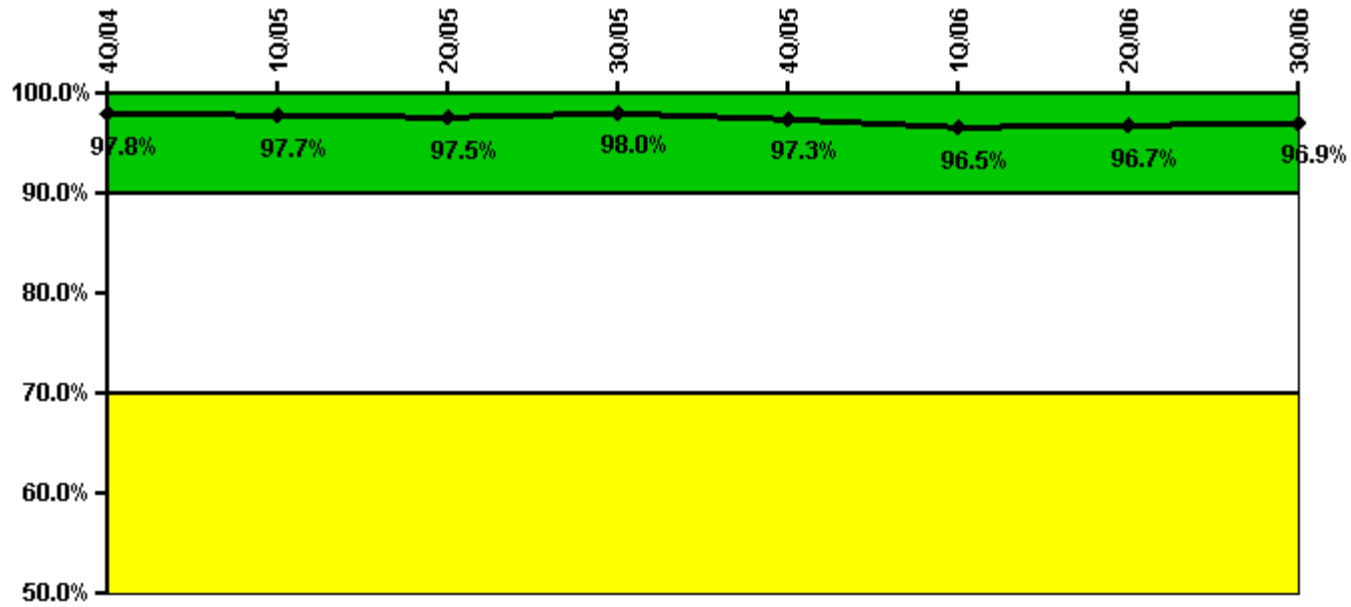
Reactor Coolant System Leakage	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum leakage	3.000	2.900	3.200	3.300	3.800	4.100	4.300	3.000	2.800	2.800	3.000	3.000
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0
Indicator value	12.0	11.6	12.8	13.2	15.2	16.4	17.2	12.0	11.2	11.2	12.0	12.0

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	3.000	3.300	3.000	3.400	3.600	3.400	2.900	2.600	2.700	2.700	2.700	2.600
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	12.0	13.2	12.0	13.6	14.4	13.6	11.6	10.4	10.8	10.8	10.8	10.4

Licensee Comments: none

### Drill/Exercise Performance



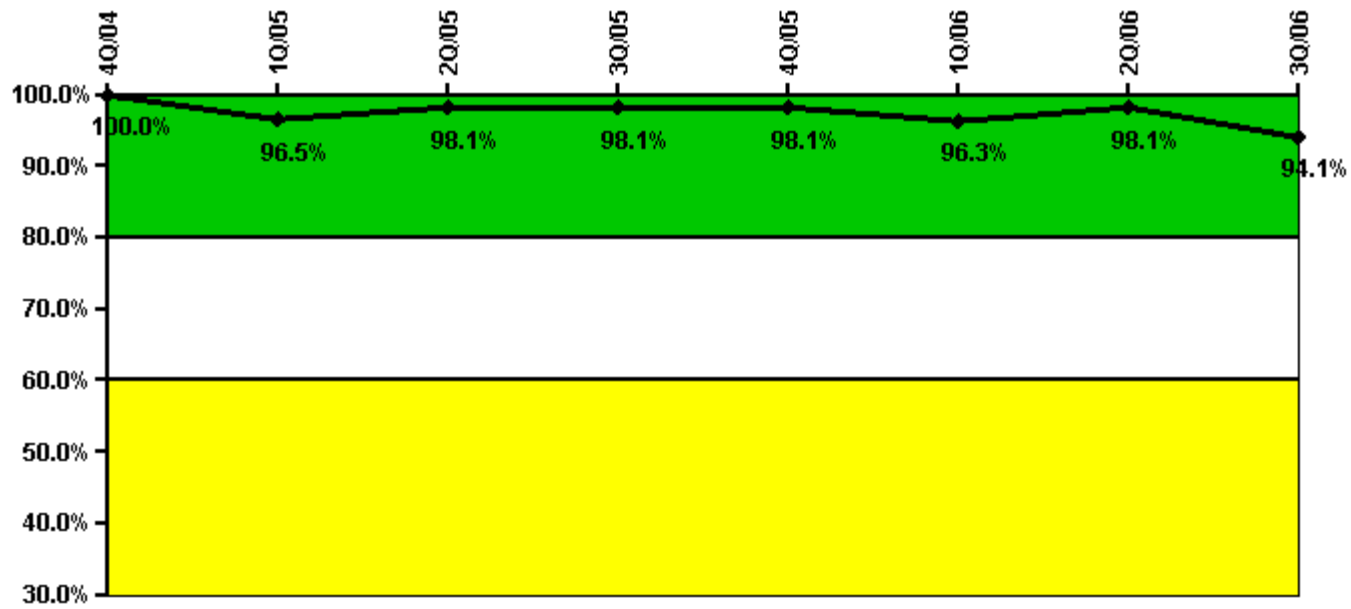
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful opportunities	20.0	0	34.0	28.0	7.0	20.0	10.0	7.0
Total opportunities	20.0	0	35.0	28.0	8.0	22.0	10.0	7.0
Indicator value	97.8%	97.7%	97.5%	98.0%	97.3%	96.5%	96.7%	96.9%

Licensee Comments: none

### ERO Drill Participation



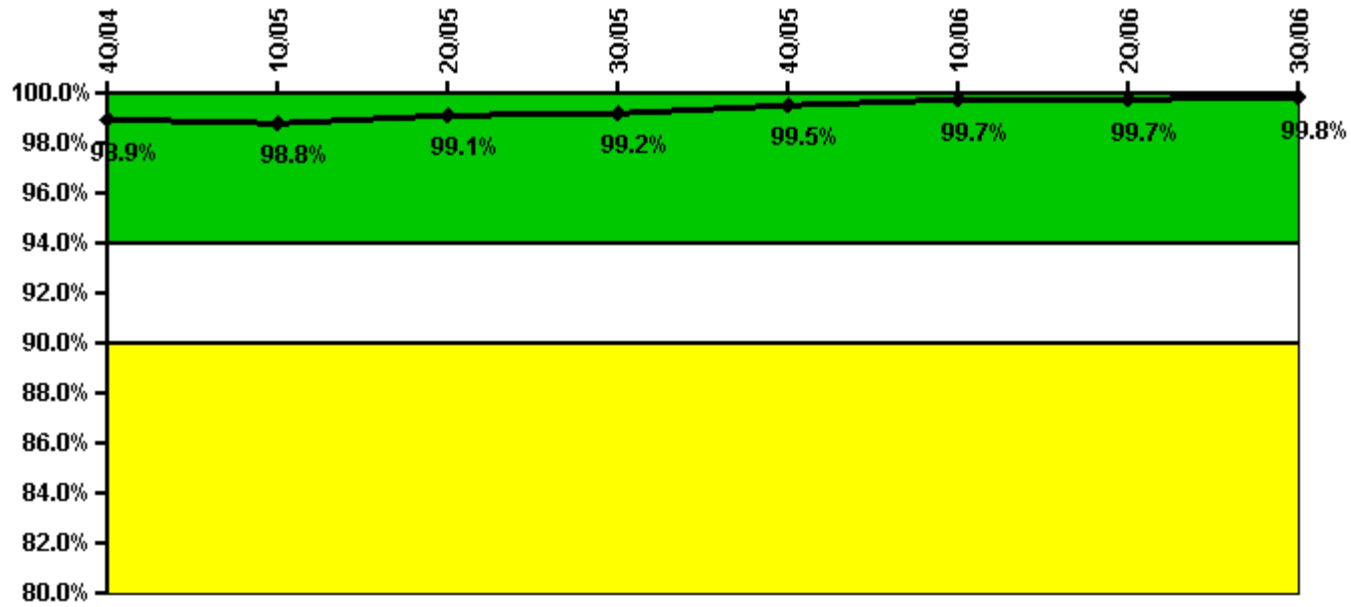
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Participating Key personnel	81.0	110.0	106.0	102.0	104.0	103.0	104.0	95.0
Total Key personnel	81.0	114.0	108.0	104.0	106.0	107.0	106.0	101.0
Indicator value	100.0%	96.5%	98.1%	98.1%	98.1%	96.3%	98.1%	94.1%

Licensee Comments: none

### Alert & Notification System



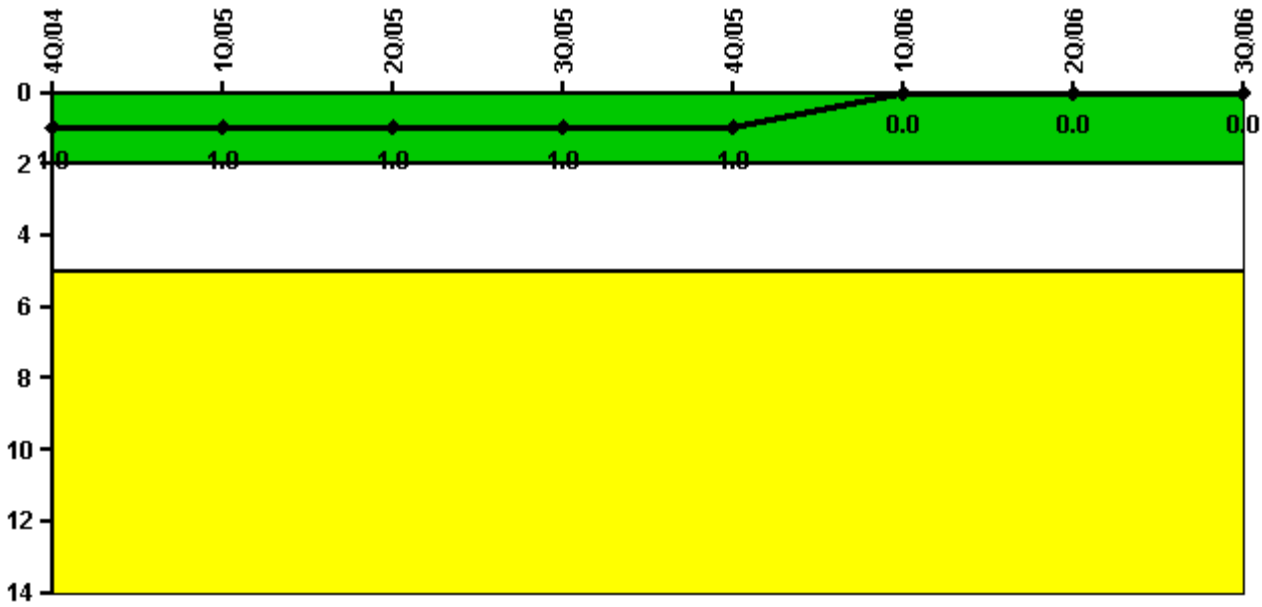
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful siren-tests	534	497	503	502	539	502	503	504
Total sirens-tests	540	504	504	504	540	504	504	504
Indicator value	98.9%	98.8%	99.1%	99.2%	99.5%	99.7%	99.7%	99.8%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



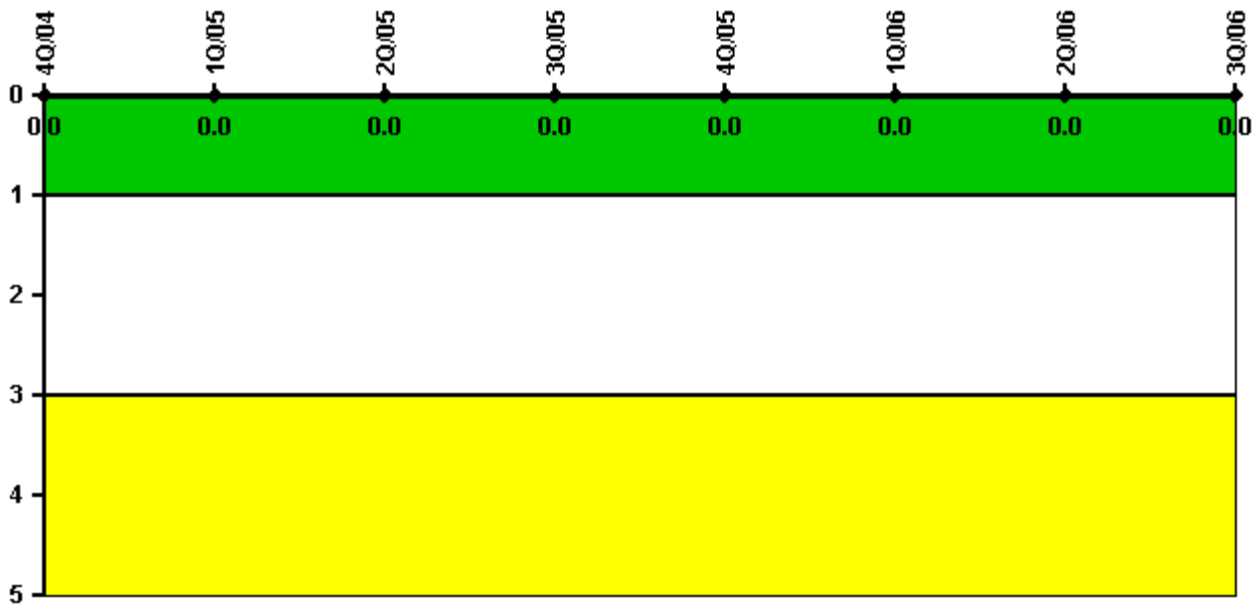
Thresholds: White > 2.0 Yellow > 5.0

#### 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	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
<b>Indicator value</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>

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.