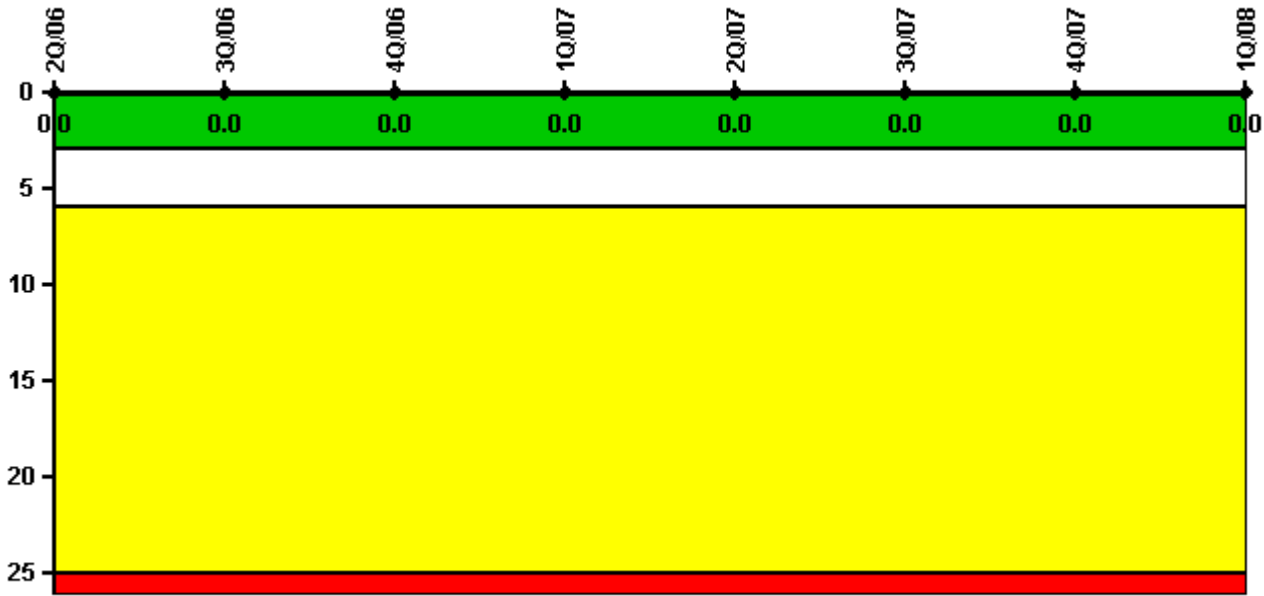


# Byron 1

## 1Q/2008 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



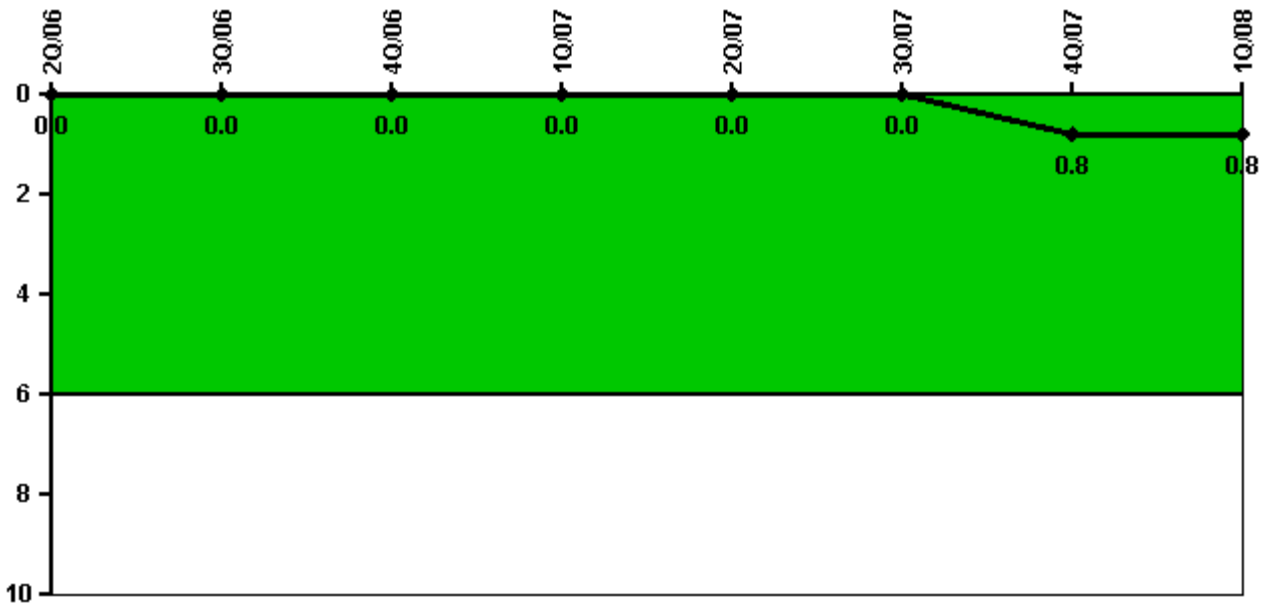
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	1727.0	1855.6	2159.0	2184.0	2208.0	1944.2	1990.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

# Unplanned Power Changes per 7000 Critical Hrs



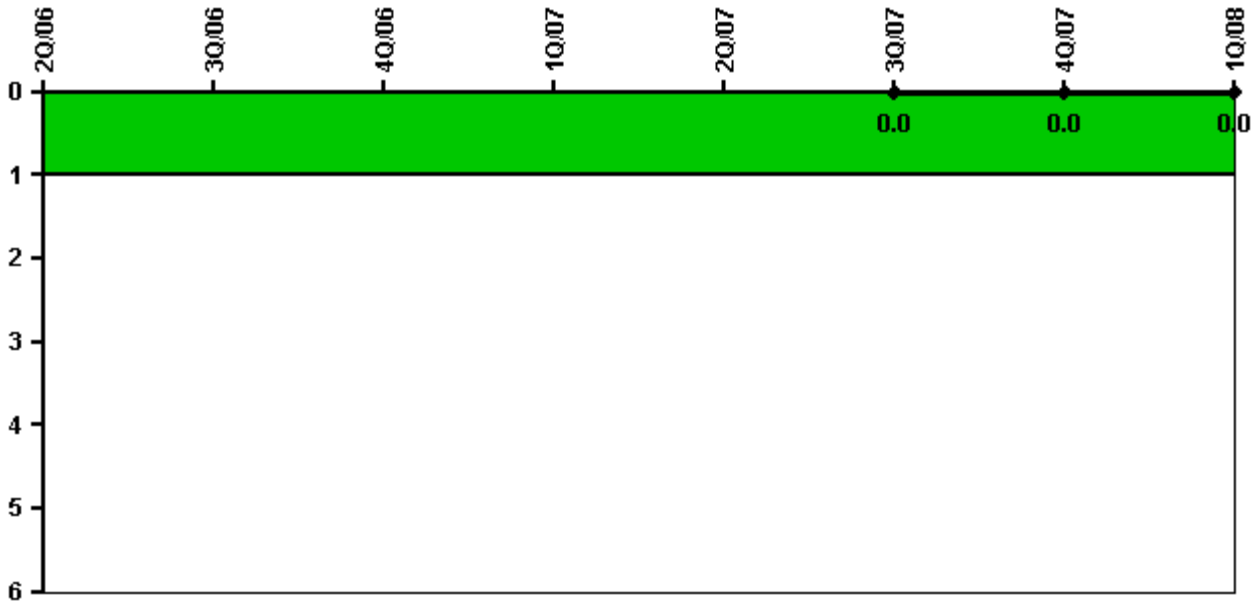
Thresholds: White > 6.0

## Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2183.0	1727.0	1855.6	2159.0	2184.0	2208.0	1944.2	1990.0
Indicator value	0	0	0	0	0	0	0.8	0.8

Licensee Comments: none

# Unplanned Scrams with Complications



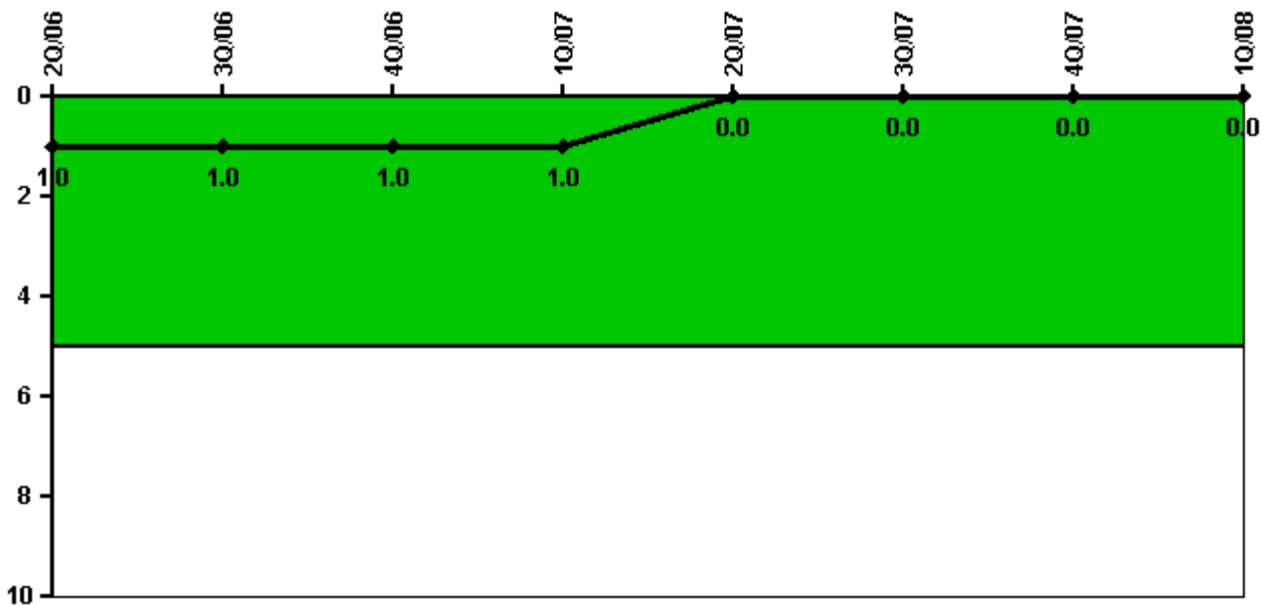
Thresholds: White > 1.0

## 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	0	0	0	0	0
Indicator value						0.0	0.0	0.0

Licensee Comments: none

# Safety System Functional Failures (PWR)



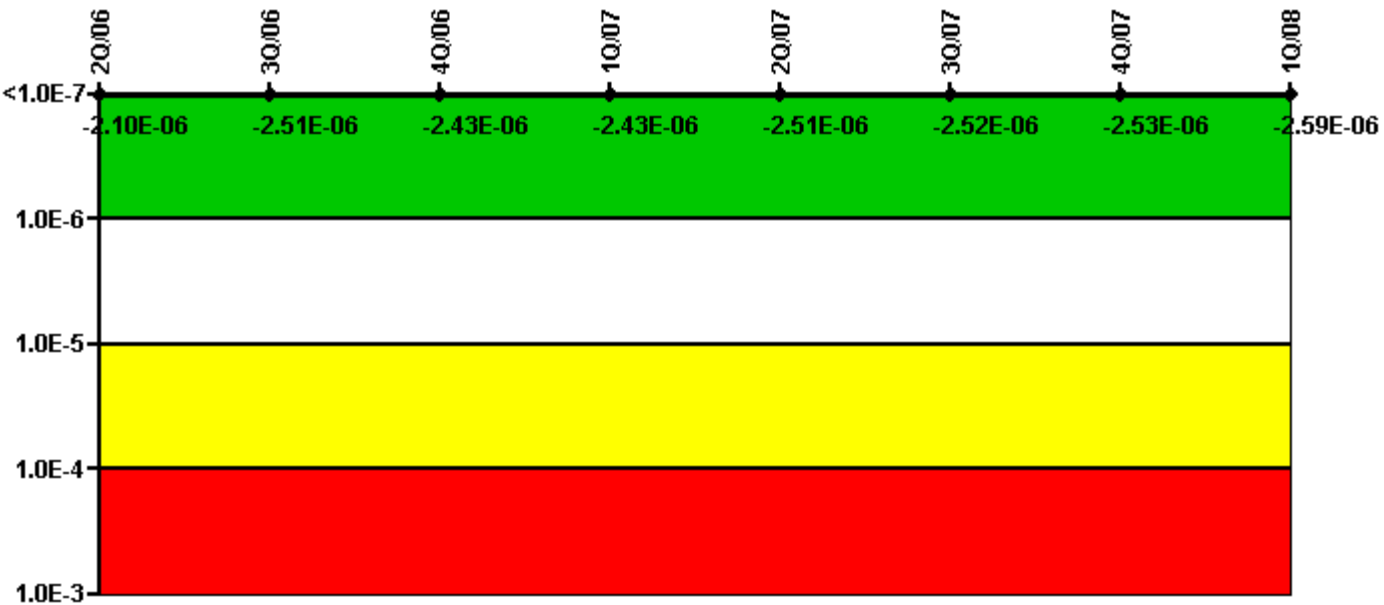
Thresholds: White > 5.0

## Notes

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

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



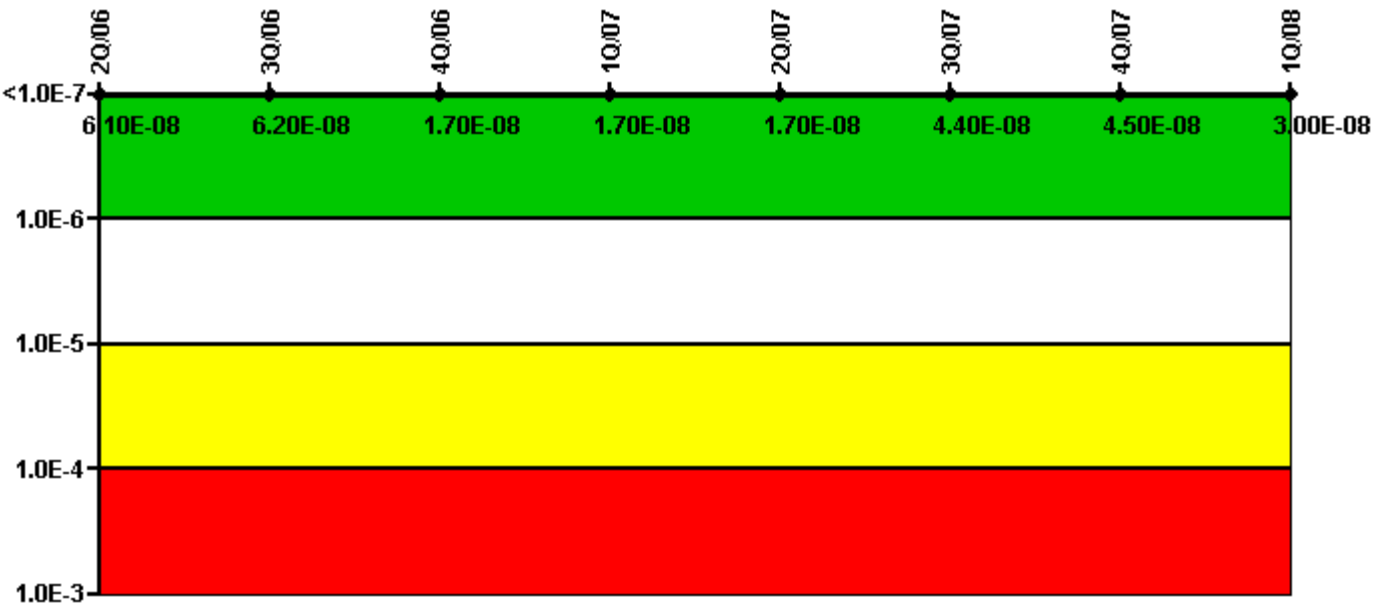
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## 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)	-9.30E-10	-6.70E-09	7.30E-08	7.30E-08	8.90E-08	7.80E-08	7.50E-08	8.30E-09
URI (ΔCDF)	-2.10E-06	-2.50E-06	-2.50E-06	-2.50E-06	-2.60E-06	-2.60E-06	-2.60E-06	-2.60E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.10E-06	-2.51E-06	-2.43E-06	-2.43E-06	-2.51E-06	-2.52E-06	-2.53E-06	-2.59E-06

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



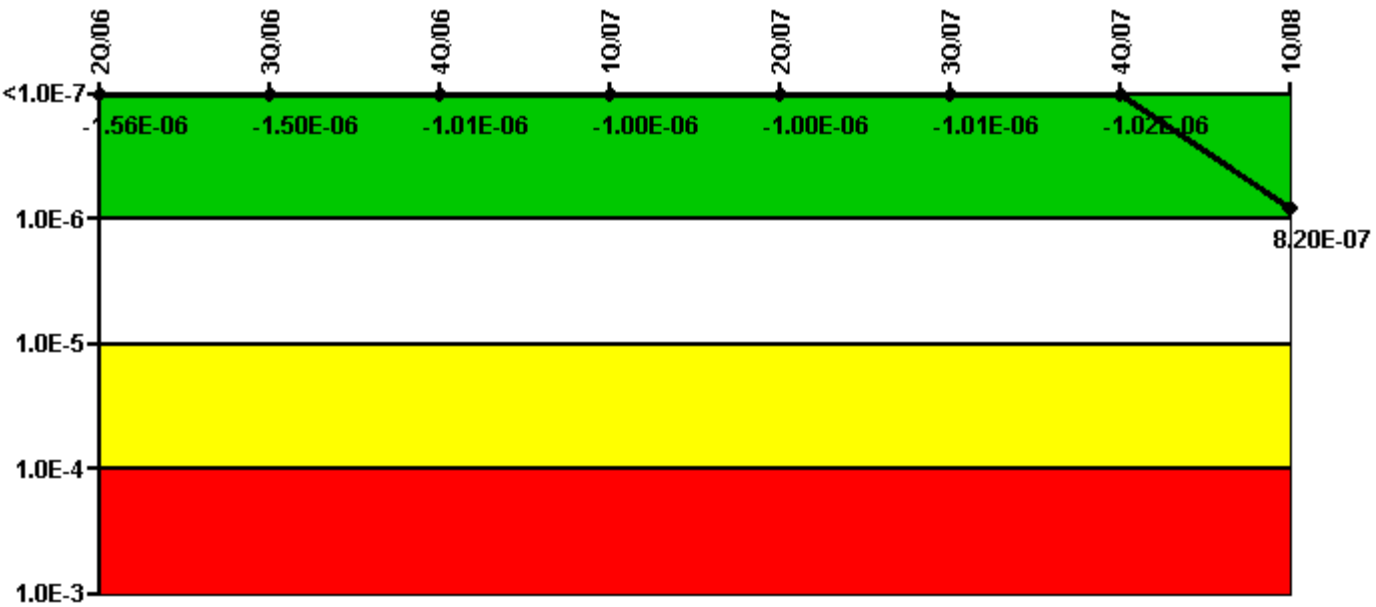
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## 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 ( $\Delta$ CDF)	4.50E-08	4.60E-08	3.10E-08	3.10E-08	3.10E-08	5.80E-08	5.90E-08	4.40E-08
URI ( $\Delta$ CDF)	1.60E-08	1.60E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.10E-08	6.20E-08	1.70E-08	1.70E-08	1.70E-08	4.40E-08	4.50E-08	3.00E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



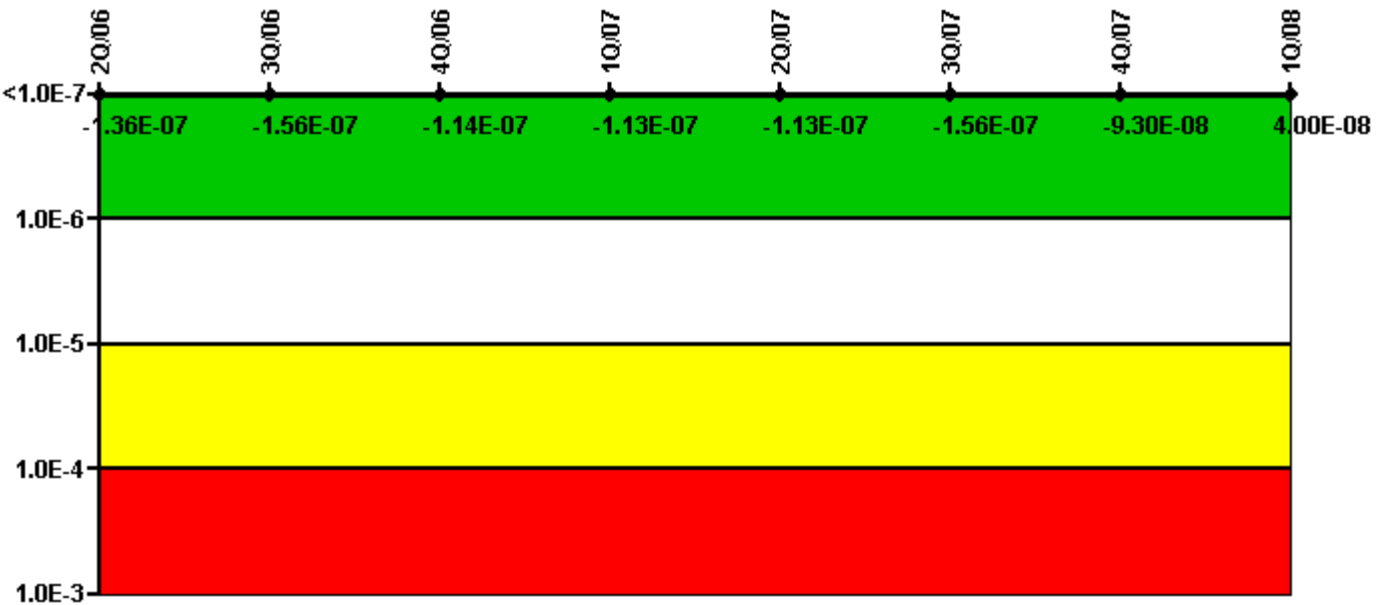
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI ( $\Delta$ CDF)	-3.60E-07	-3.00E-07	8.70E-08	1.00E-07	9.70E-08	8.80E-08	8.50E-08	3.20E-07
URI ( $\Delta$ CDF)	-1.20E-06	-1.20E-06	-1.10E-06	-1.10E-06	-1.10E-06	-1.10E-06	-1.10E-06	5.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.56E-06	-1.50E-06	-1.01E-06	-1.00E-06	-1.00E-06	-1.01E-06	-1.02E-06	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

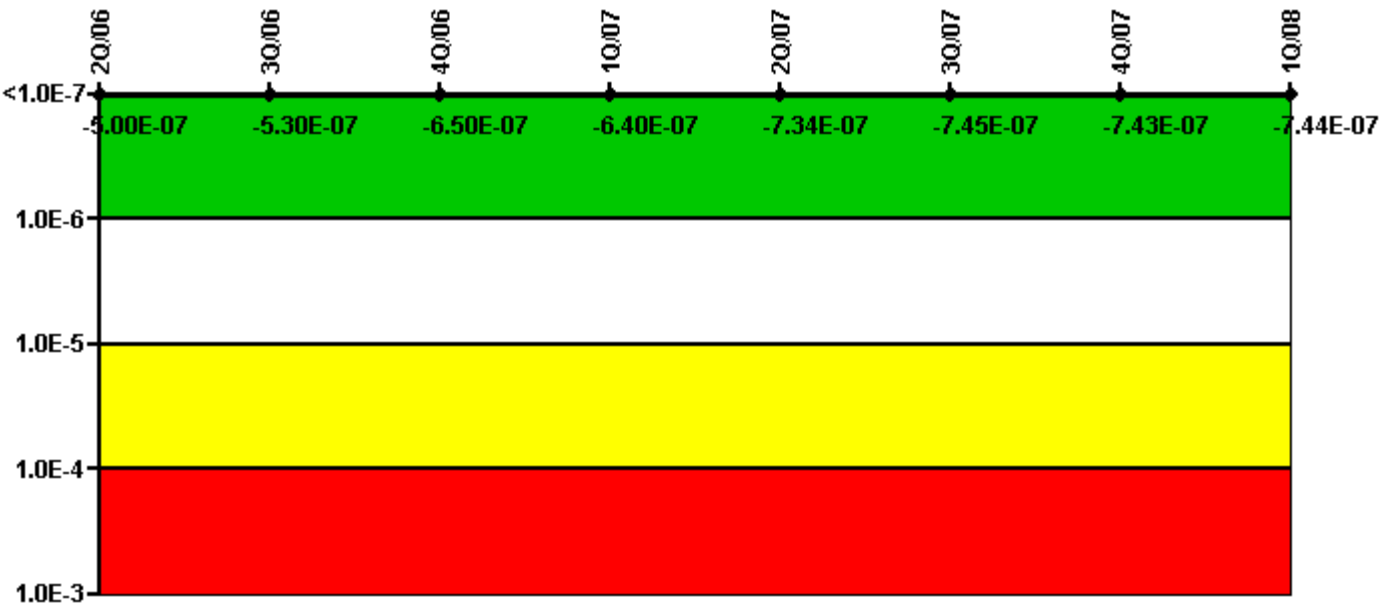
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI ( $\Delta$ CDF)	-2.60E-08	-2.60E-08	1.60E-08	1.70E-08	1.70E-08	-2.60E-08	4.70E-08	1.60E-07
URI ( $\Delta$ CDF)	-1.10E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.40E-07	-1.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.36E-07	-1.56E-07	-1.14E-07	-1.13E-07	-1.13E-07	-1.56E-07	-9.30E-08	4.00E-08

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



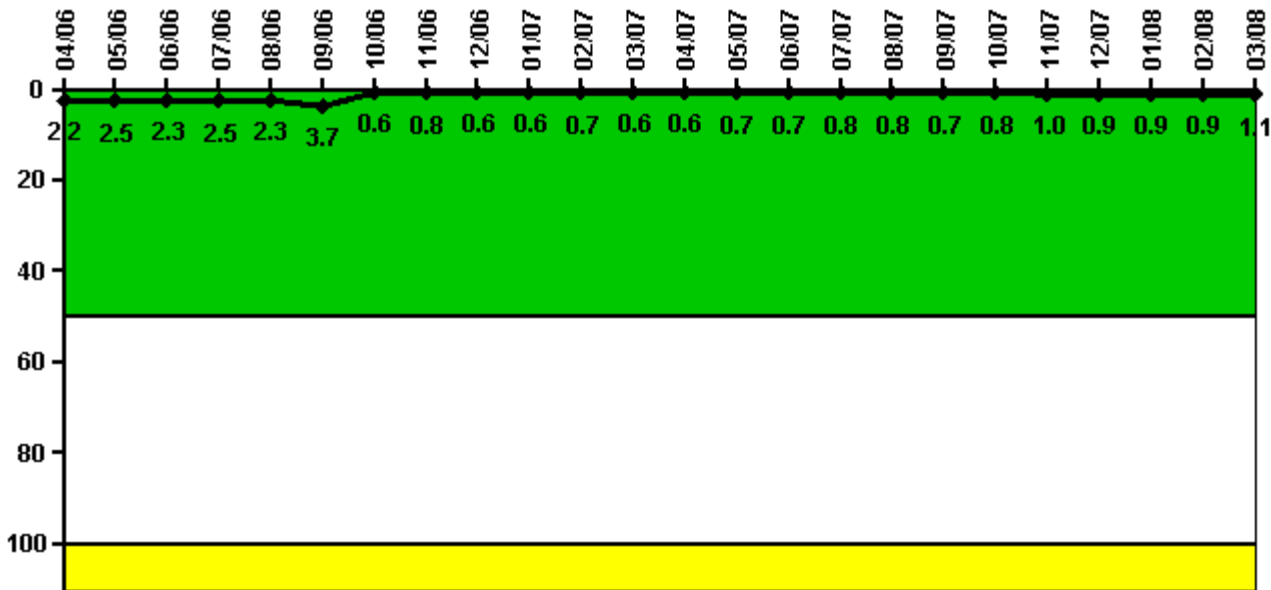
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI ( $\Delta$ CDF)	2.50E-07	2.20E-07	1.00E-07	1.10E-07	2.60E-08	1.50E-08	1.70E-08	1.60E-08
URI ( $\Delta$ CDF)	-7.50E-07	-7.50E-07	-7.50E-07	-7.50E-07	-7.60E-07	-7.60E-07	-7.60E-07	-7.60E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.00E-07	-5.30E-07	-6.50E-07	-6.40E-07	-7.34E-07	-7.45E-07	-7.43E-07	-7.44E-07

Licensee Comments: none

# Reactor Coolant System Activity



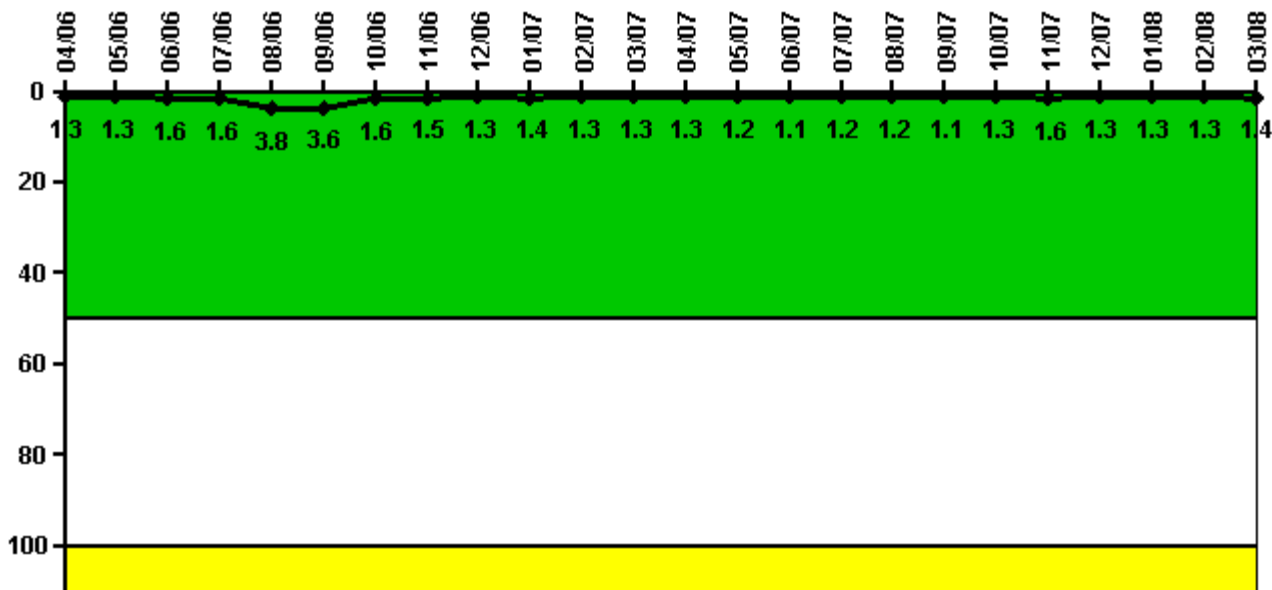
Thresholds: White > 50.0 Yellow > 100.0

## 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	0.021600	0.024600	0.022800	0.025400	0.023300	0.037300	0.005910	0.007650	0.005730	0.006490	0.006950	0.006230
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	2.2	2.5	2.3	2.5	2.3	3.7	0.6	0.8	0.6	0.6	0.7	0.6
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	0.006430	0.007010	0.007260	0.007640	0.007650	0.007380	0.008000	0.009550	0.008750	0.008660	0.008680	0.010500
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	0.8	0.7	0.8	1.0	0.9	0.9	0.9	1.1

Licensee Comments: none

# Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

## Notes

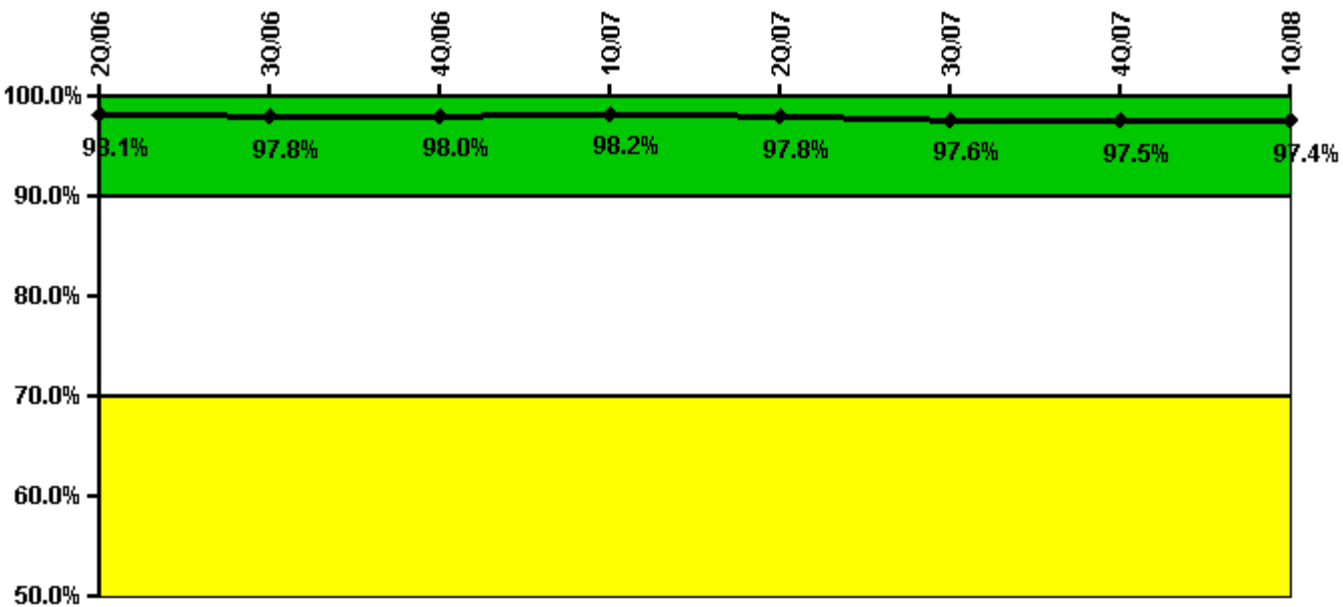
Reactor Coolant System Leakage	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum leakage	0.125	0.128	0.158	0.164	0.377	0.361	0.159	0.149	0.131	0.136	0.128	0.125
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	1.3	1.3	1.6	1.6	3.8	3.6	1.6	1.5	1.3	1.4	1.3	1.3

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	0.126	0.118	0.113	0.121	0.115	0.112	0.132	0.160	0.134	0.132	0.130	0.141
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	1.3	1.2	1.1	1.2	1.2	1.1	1.3	1.6	1.3	1.3	1.3	1.4

Licensee Comments: none

# Drill/Exercise Performance



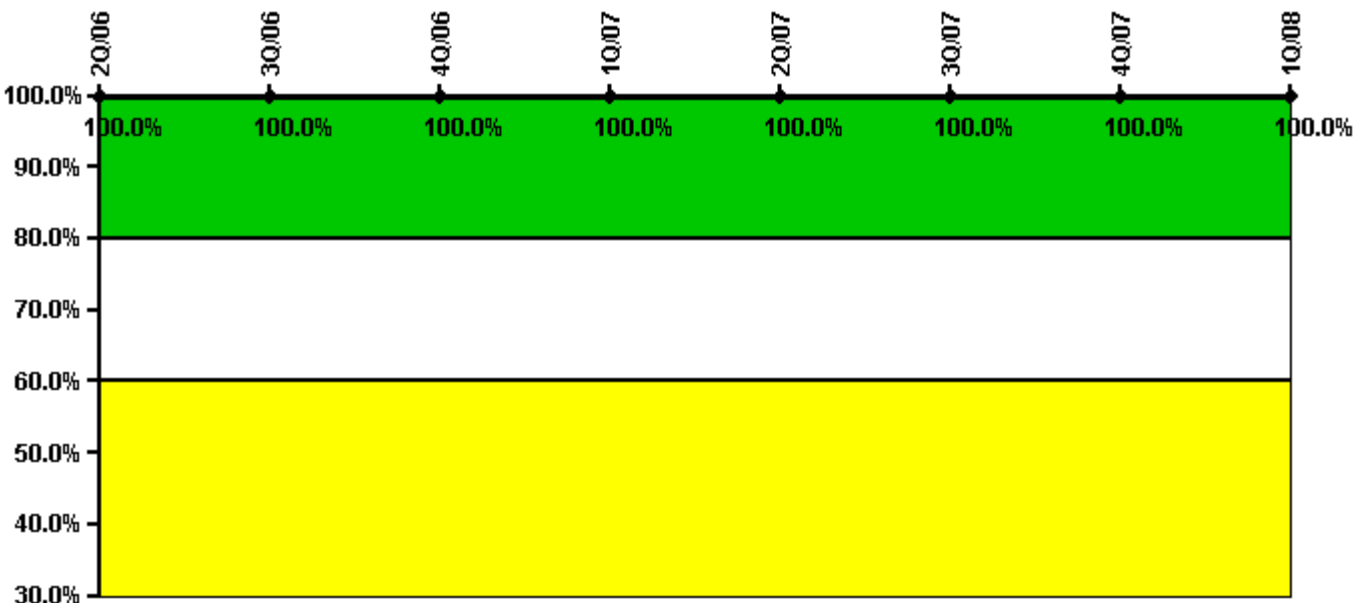
Thresholds: White < 90.0% Yellow < 70.0%

## Notes

Drill/Exercise Performance	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful opportunities	12.0	136.0	40.0	10.0	45.0	43.0	88.0	4.0
Total opportunities	12.0	139.0	40.0	10.0	49.0	44.0	90.0	4.0
Indicator value	98.1%	97.8%	98.0%	98.2%	97.8%	97.6%	97.5%	97.4%

Licensee Comments: none

# ERO Drill Participation



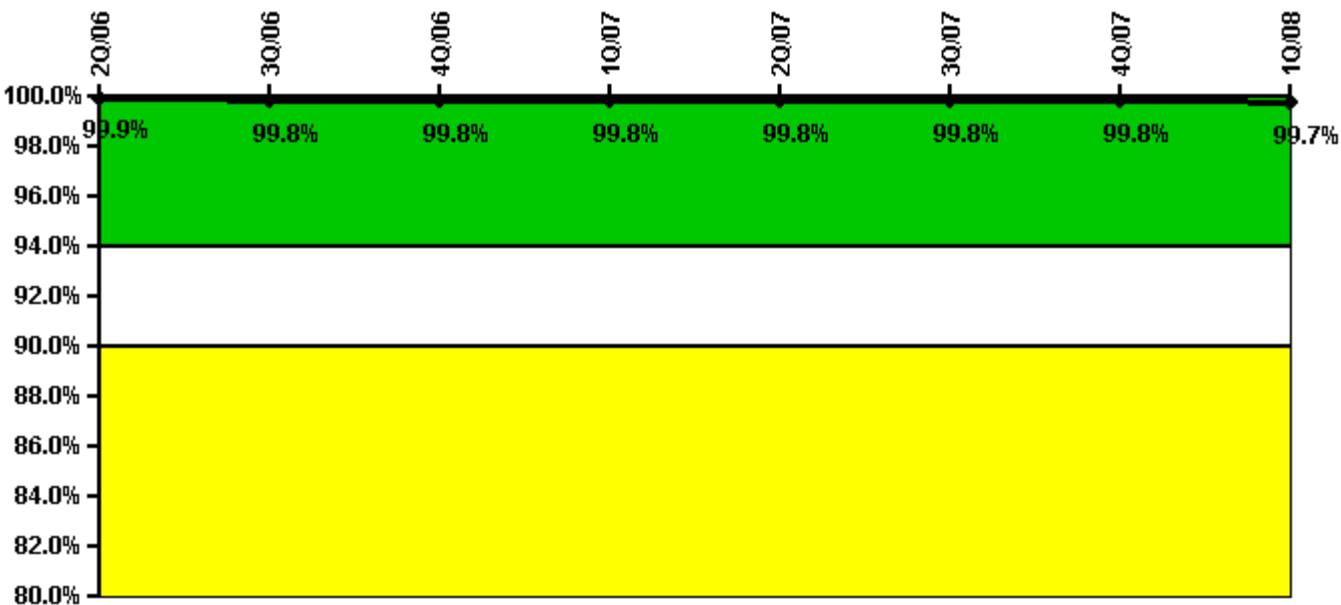
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Participating Key personnel	78.0	76.0	76.0	71.0	66.0	75.0	75.0	73.0
Total Key personnel	78.0	76.0	76.0	71.0	66.0	75.0	75.0	73.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

# Alert & Notification System



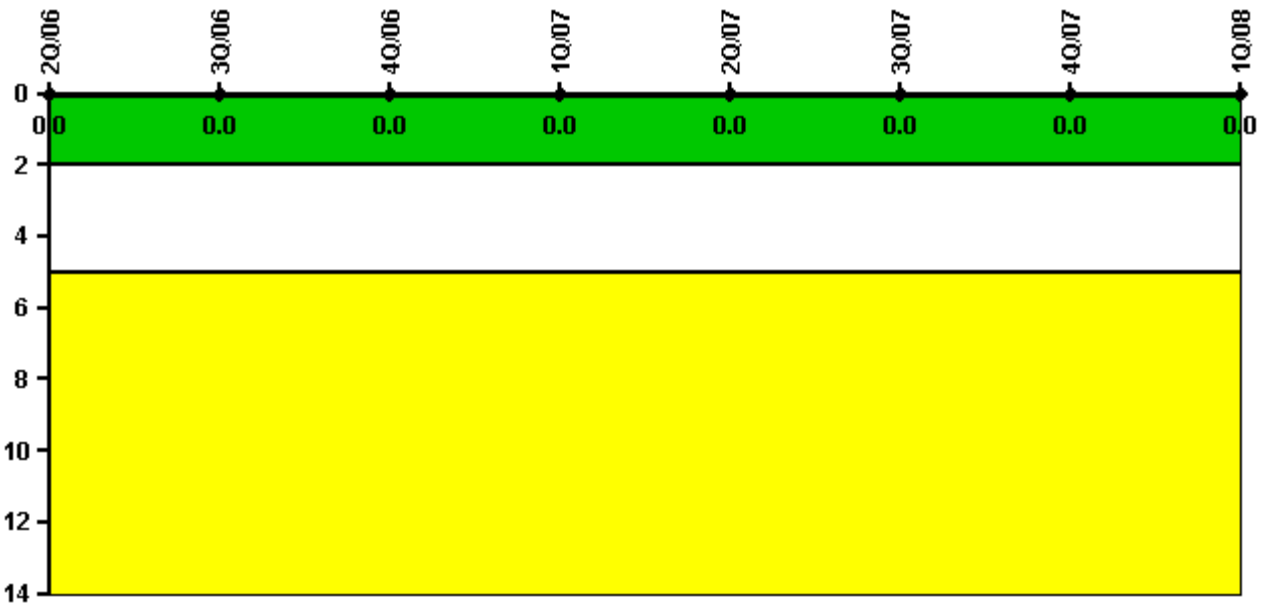
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful siren-tests	6005	5988	5915	6008	5985	5988	5997	5996
Total sirens-tests	6012	6012	5922	6016	6005	6009	6007	6011
Indicator value	99.9%	99.8%	99.8%	99.8%	99.8%	99.8%	99.8%	99.7%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



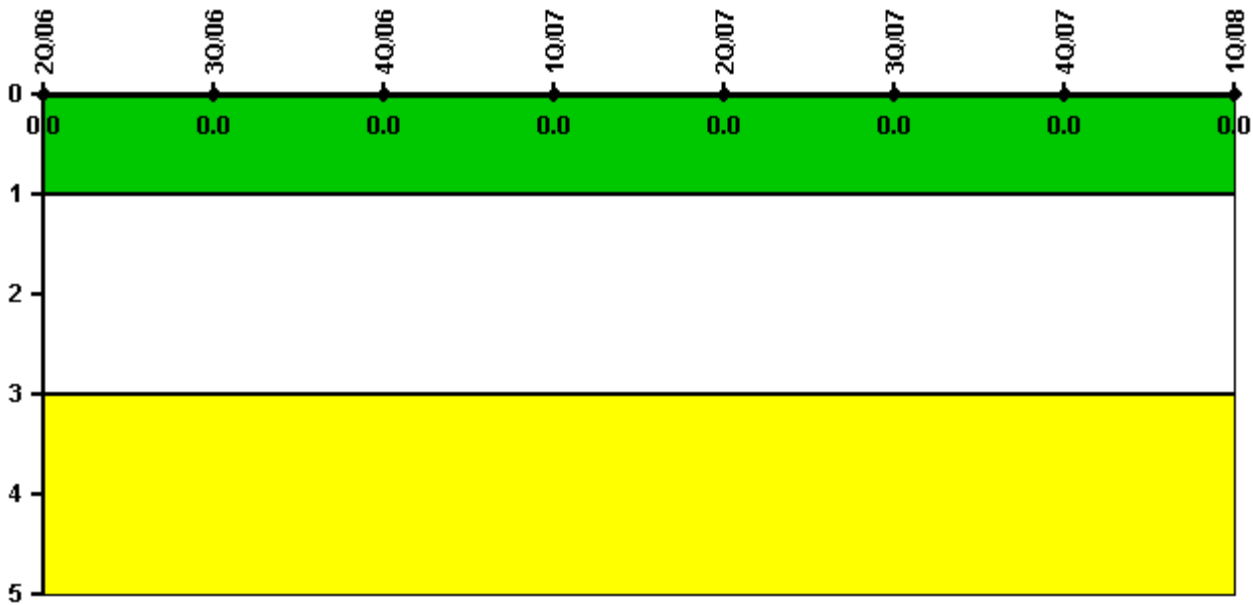
Thresholds: White > 2.0 Yellow > 5.0

## 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	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/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