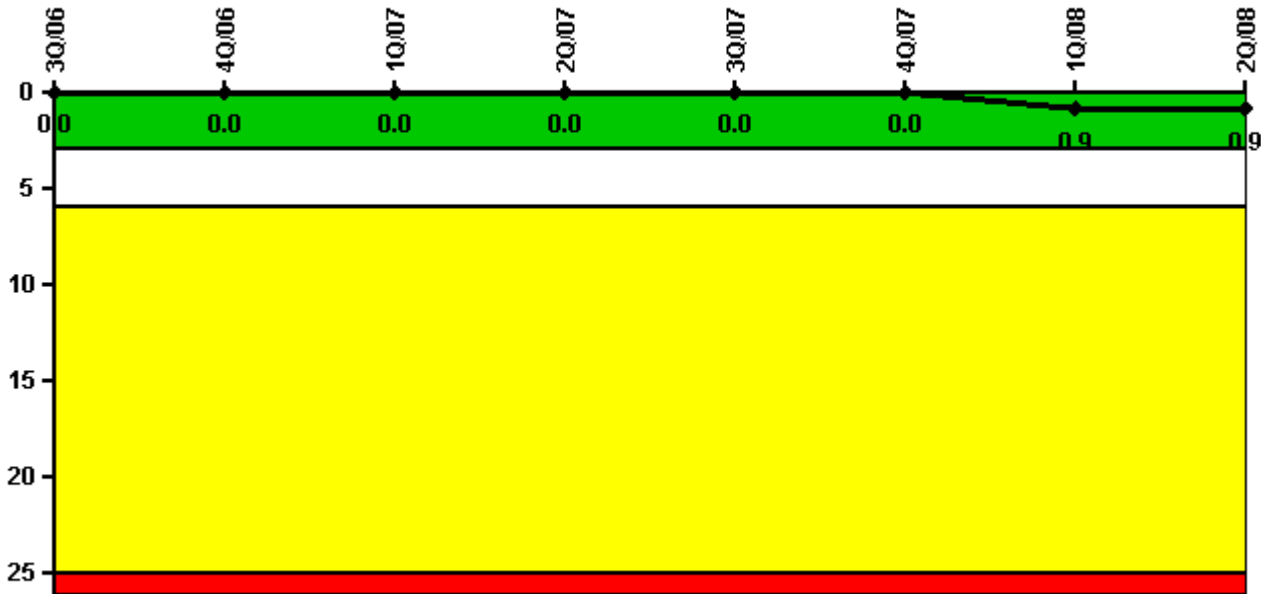


# Sequoyah 1

## 2Q/2008 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



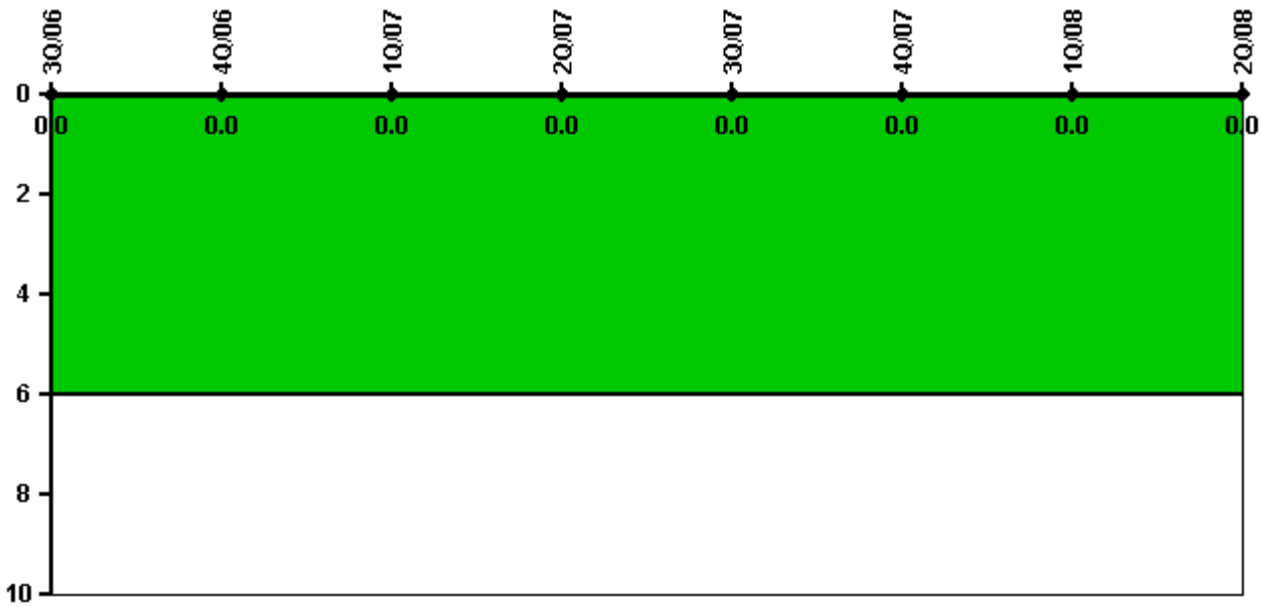
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	2208.0	1169.4	2145.1	2184.0
Indicator value	0	0	0	0	0	0	0.9	0.9

Licensee Comments: none

# Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

## Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	2208.0	1169.4	2145.1	2184.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

# Unplanned Scrams with Complications



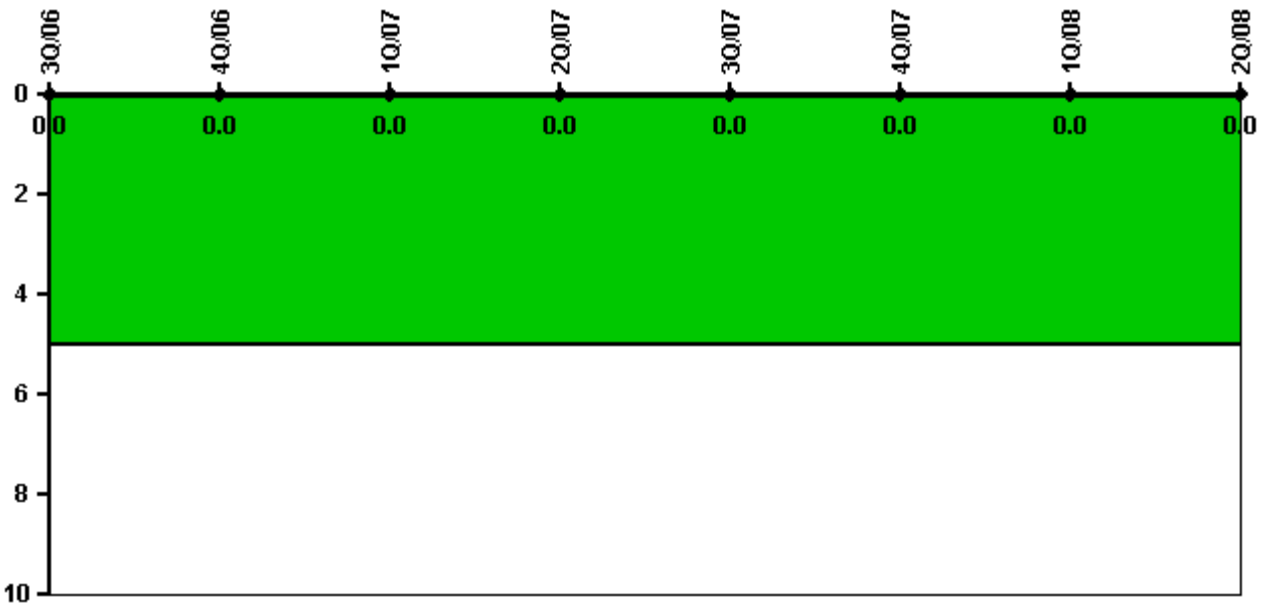
Thresholds: White > 1.0

## Notes

Unplanned Scrams with Complications	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Scrams with complications		0	0	0	0	0	0	0
Indicator value					0.0	0.0	0.0	0.0

Licensee Comments: none

# Safety System Functional Failures (PWR)



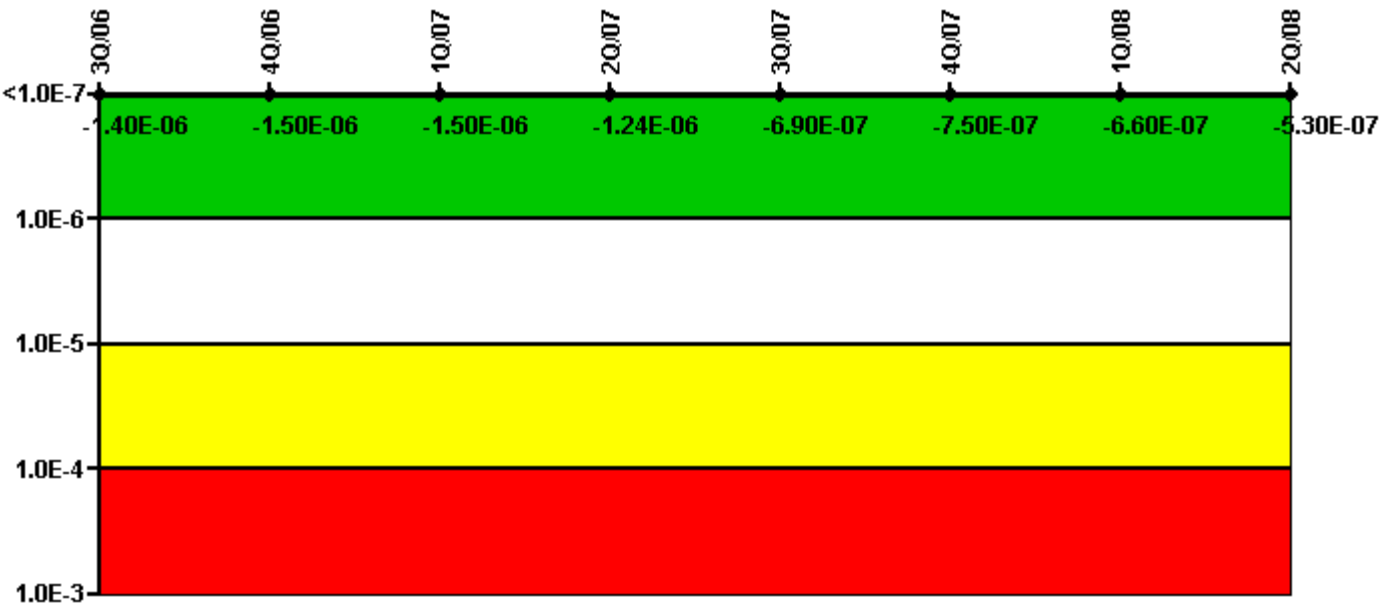
Thresholds: White > 5.0

## Notes

Safety System Functional Failures (PWR)	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	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	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI ( $\Delta$ CDF)	-2.00E-07	-2.00E-07	-2.00E-07	1.60E-07	1.50E-07	1.70E-07	1.70E-07	-2.00E-07
URI ( $\Delta$ CDF)	-1.20E-06	-1.30E-06	-1.30E-06	-1.40E-06	-8.40E-07	-9.20E-07	-8.30E-07	-3.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-06	-1.50E-06	-1.50E-06	-1.24E-06	-6.90E-07	-7.50E-07	-6.60E-07	-5.30E-07

## Licensee Comments:

2Q/08: Risk Cap Invoked. Changed PRA Parameter(s). Revised all quarterly data within the 3 yr reporting window for the following corrections. Planned unavailable hours due to SSPS testing on U1 were removed from the U2 indicator and vice versa. Unavailable hours included while the applicable unit was not critical were subtracted. Also, baseline planned unavailability was updated for these same conditions. These changes made in accordance with Sequoyah PER 135288. BPK7/11/08

1Q/08: Risk Cap Invoked. Changed PRA Parameter(s). An error has been identified in baseline planned unavailability and critical hours. The baseline planned unavailability will increase once corrected adding further margin in the UAI derivation. This correction will be made prior to next quarter's reporting.

4Q/07: Risk Cap Invoked. Changed PRA Parameter(s). The following changes have been made during the reporting quarter. PRA parameters for FVURC, FVUAP, UAP updated to reflect numbers in the basis document. Failure records 1057, 1088, and 1006 have been changed as a result of a re-evaluation.

3Q/07: Risk Cap Invoked. Changed PRA Parameter(s). failure record 1088 updated for MSPI failure no. Failed components were outside the monitoring boundary. BPK 1/16/08

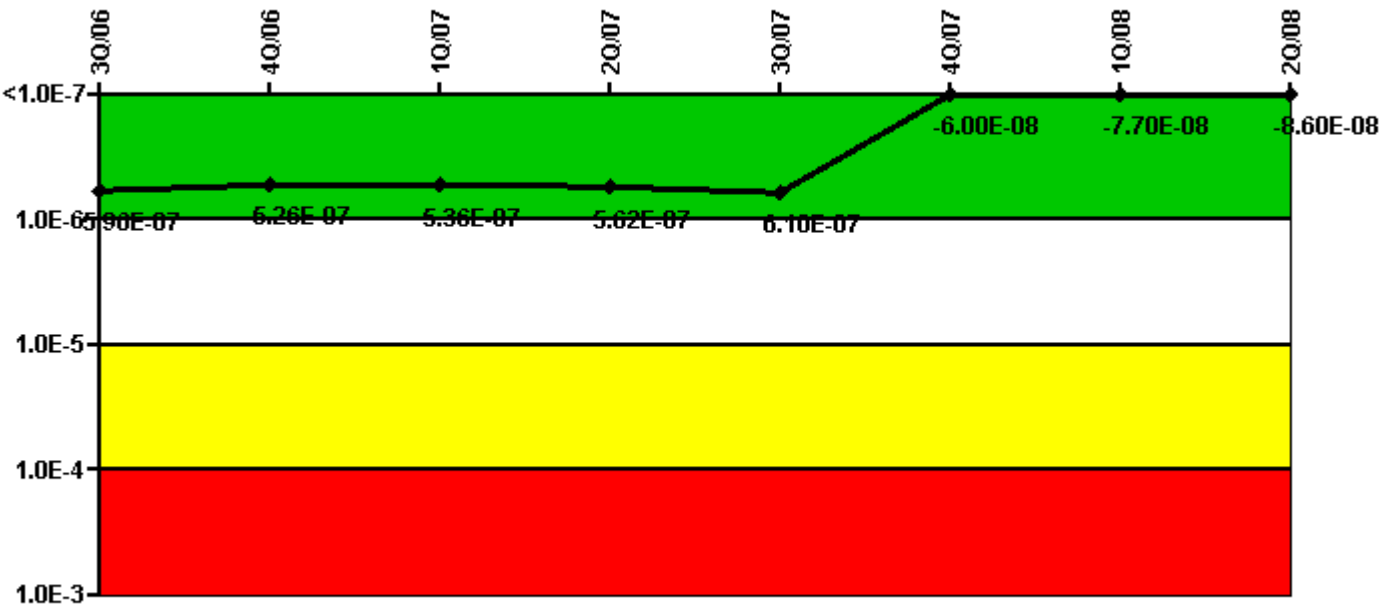
2Q/07: Risk Cap Invoked. Changed PRA Parameter(s).

1Q/07: Risk Cap Invoked. Changed PRA Parameter(s).

4Q/06: Risk Cap Invoked. Changed PRA Parameter(s).

3Q/06: Risk Cap Invoked. Changed PRA Parameter(s). failure record 1057 updated to MSPI failure no. Failed equipment was outside the monitoring boundary. BPK 1/16/08

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



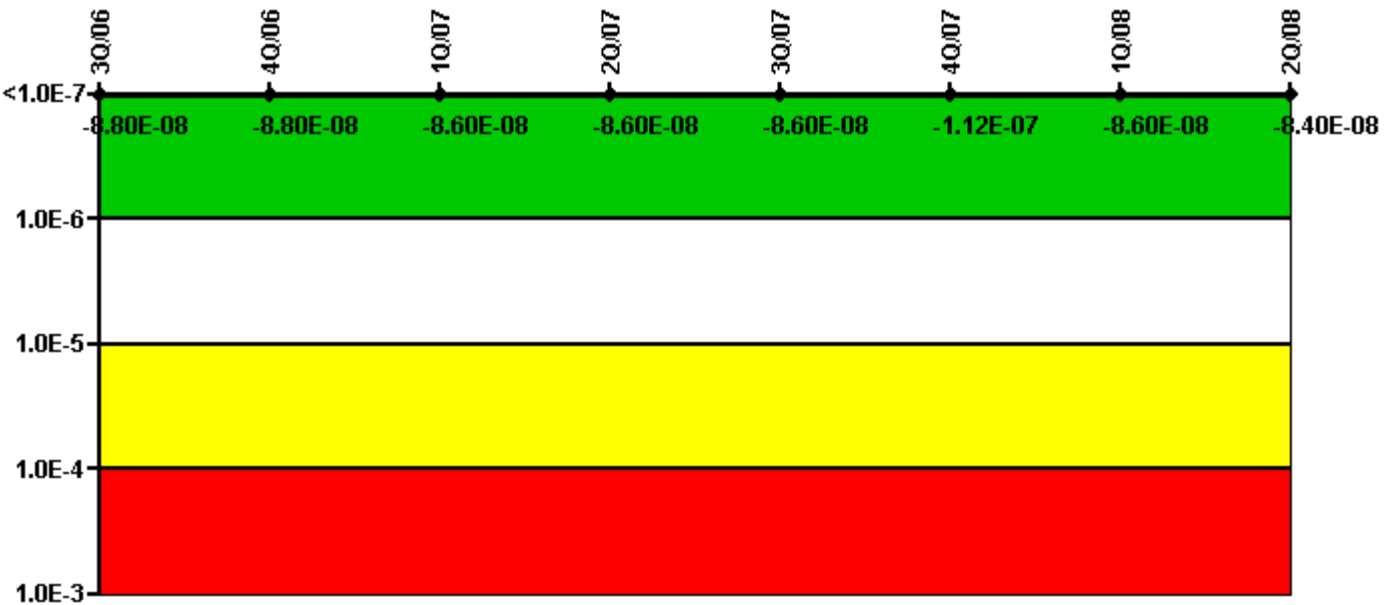
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	6.60E-08	2.60E-08	3.60E-08	6.20E-08	1.10E-07	1.10E-07	9.30E-08	8.40E-08
URI (ΔCDF)	5.30E-07	5.00E-07	5.00E-07	5.00E-07	5.00E-07	-1.70E-07	-1.70E-07	-1.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	5.96E-07	5.26E-07	5.36E-07	5.62E-07	6.10E-07	-6.00E-08	-7.70E-08	-8.60E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



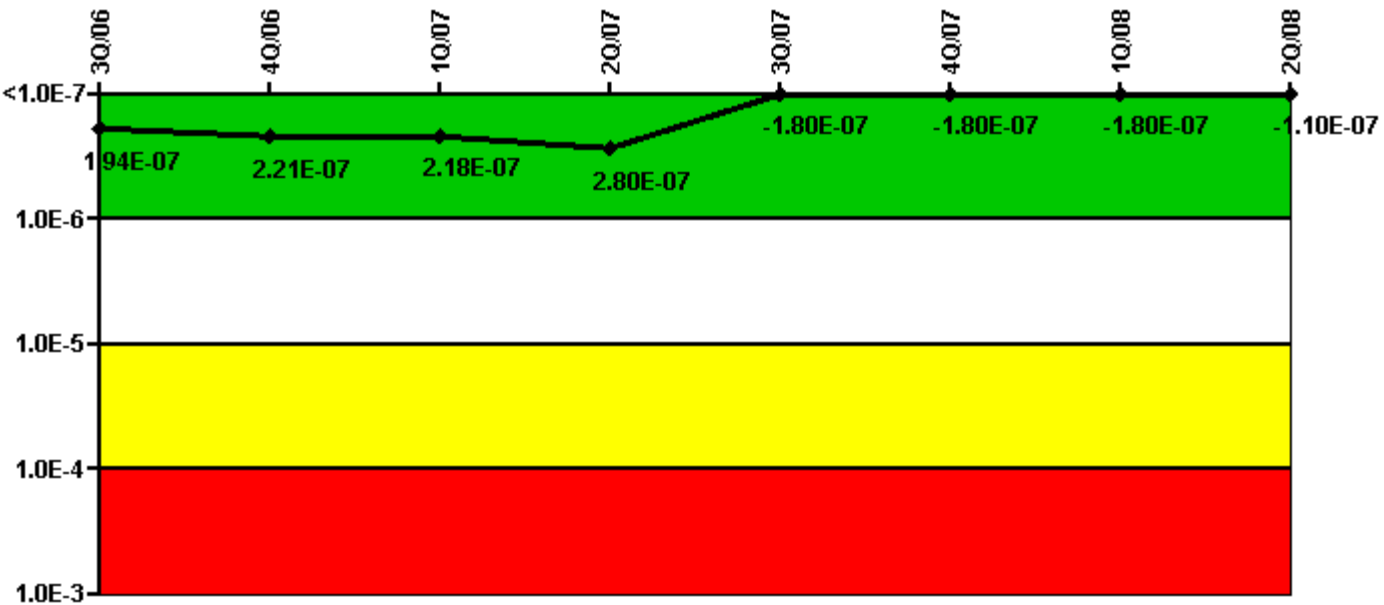
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI ( $\Delta$ CDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.30E-08	-2.00E-08	-2.00E-08
URI ( $\Delta$ CDF)	-6.60E-08	-6.60E-08	-6.40E-08	-6.40E-08	-6.40E-08	-8.90E-08	-6.60E-08	-6.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.80E-08	-8.80E-08	-8.60E-08	-8.60E-08	-8.60E-08	-1.12E-07	-8.60E-08	-8.40E-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

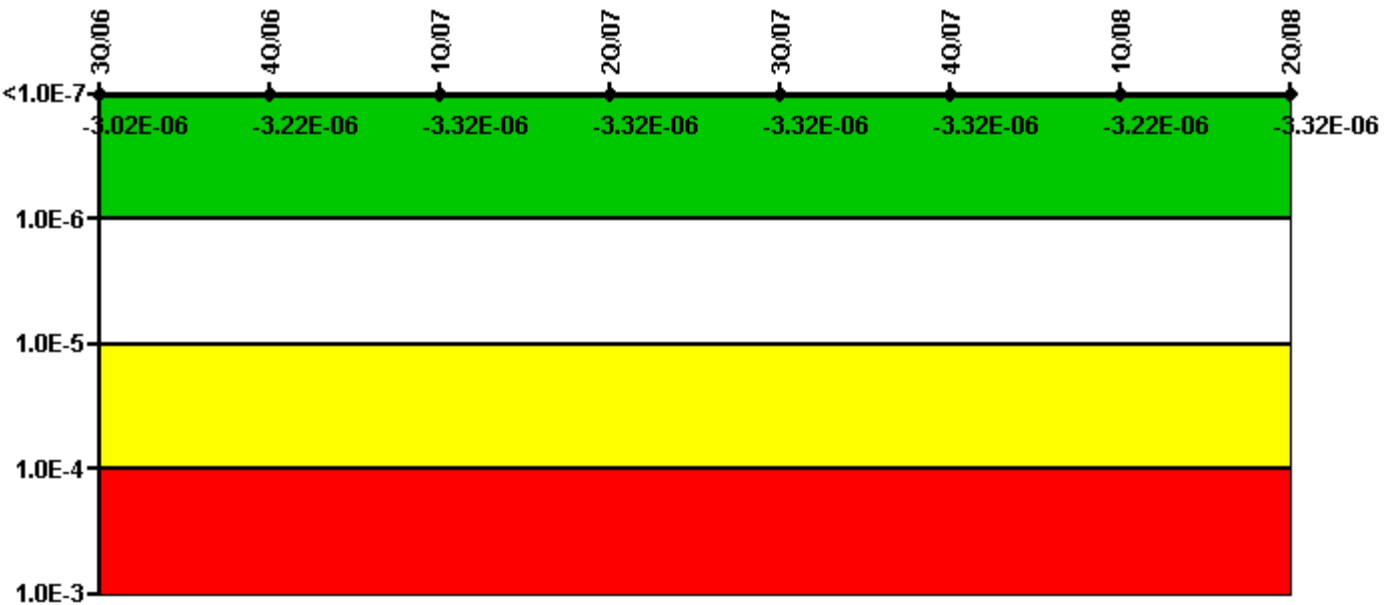
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI ( $\Delta$ CDF)	6.40E-08	9.10E-08	8.80E-08	1.50E-07	1.90E-07	1.90E-07	1.90E-07	2.60E-07
URI ( $\Delta$ CDF)	1.30E-07	1.30E-07	1.30E-07	1.30E-07	-3.70E-07	-3.70E-07	-3.70E-07	-3.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.94E-07	2.21E-07	2.18E-07	2.80E-07	-1.80E-07	-1.80E-07	-1.80E-07	-1.10E-07

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



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

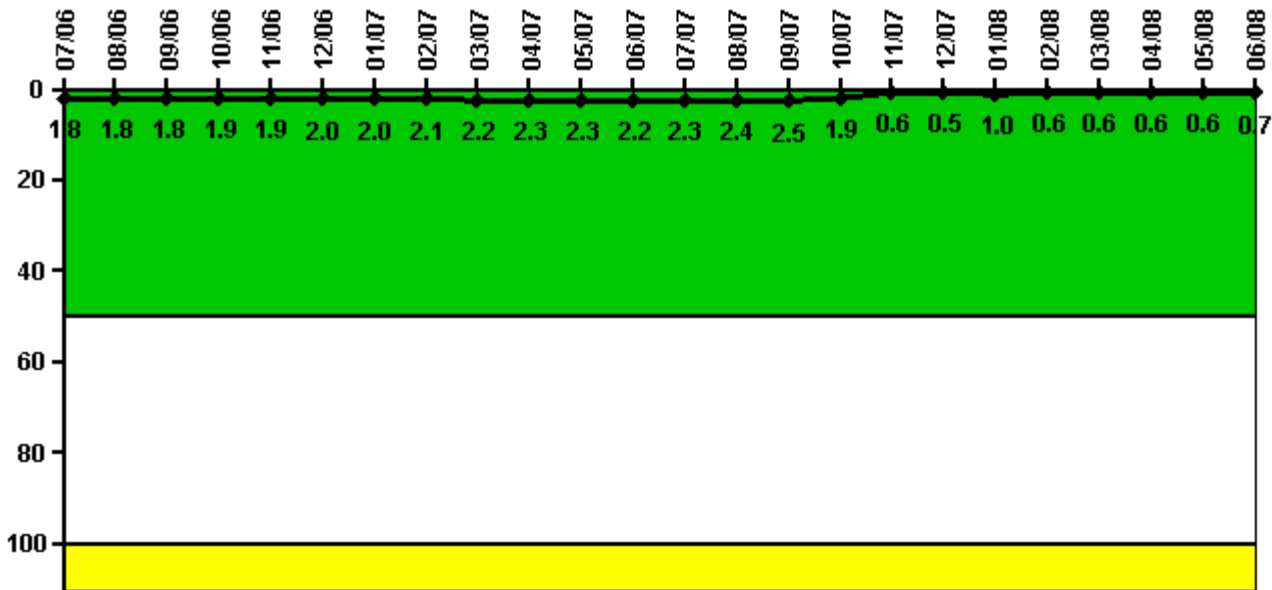
## Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI ( $\Delta$ CDF)	-2.80E-06	-3.00E-06	-3.10E-06	-3.10E-06	-3.10E-06	-3.10E-06	-3.00E-06	-3.10E-06
URI ( $\Delta$ CDF)	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.02E-06	-3.22E-06	-3.32E-06	-3.32E-06	-3.32E-06	-3.32E-06	-3.22E-06	-3.32E-06

Licensee Comments:

2Q/08: Changed PRA Parameter(s).

# Reactor Coolant System Activity



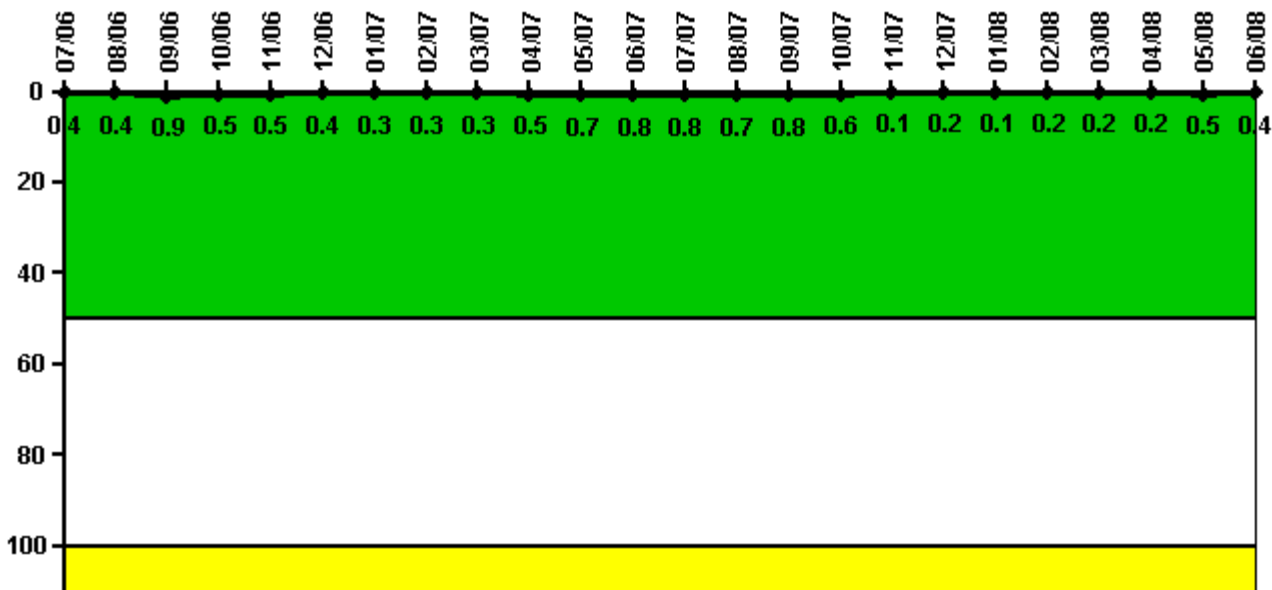
Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Activity	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum activity	0.006234	0.006255	0.006244	0.006689	0.006602	0.007064	0.007125	0.007427	0.007719	0.007894	0.007921	0.007870
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	1.8	1.8	1.8	1.9	1.9	2.0	2.0	2.1	2.2	2.3	2.3	2.2
Reactor Coolant System Activity	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08
Maximum activity	0.007976	0.008524	0.008710	0.006488	0.001952	0.001923	0.003438	0.002020	0.002169	0.002079	0.002129	0.002289
Technical specification limit	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Indicator value	2.3	2.4	2.5	1.9	0.6	0.5	1.0	0.6	0.6	0.6	0.6	0.7

Licensee Comments: none

# Reactor Coolant System Leakage



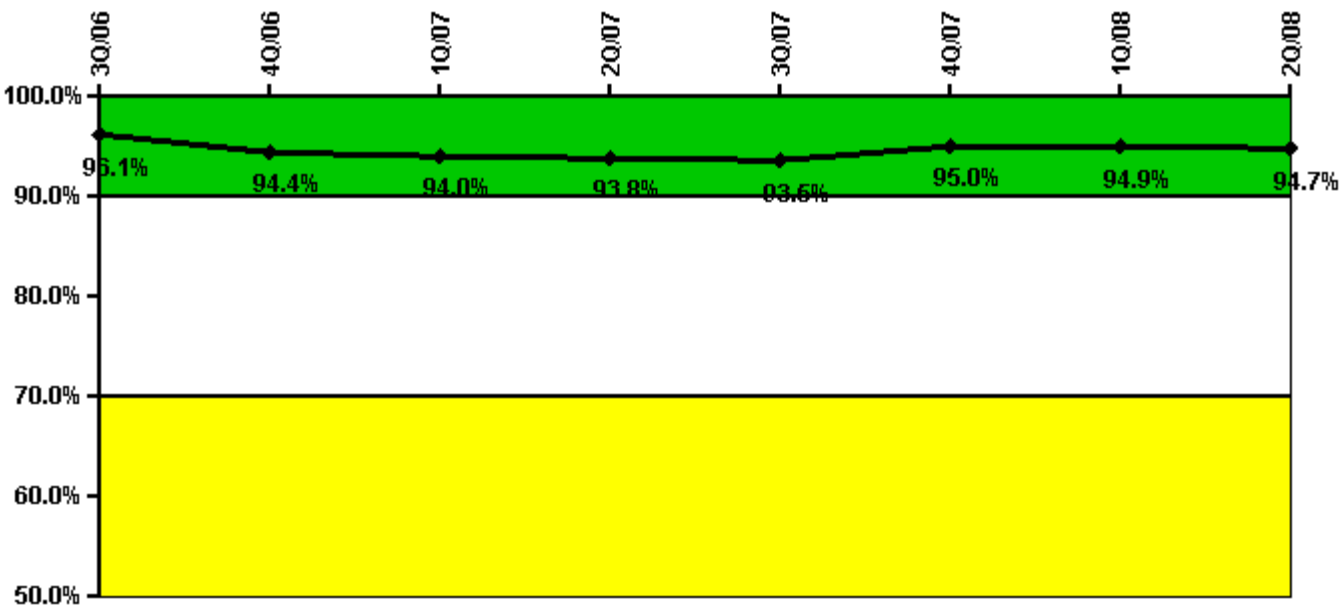
Thresholds: White > 50.0 Yellow > 100.0

## Notes

<b>Reactor Coolant System Leakage</b>	<b>7/06</b>	<b>8/06</b>	<b>9/06</b>	<b>10/06</b>	<b>11/06</b>	<b>12/06</b>	<b>1/07</b>	<b>2/07</b>	<b>3/07</b>	<b>4/07</b>	<b>5/07</b>	<b>6/07</b>
Maximum leakage	0.040	0.040	0.090	0.050	0.050	0.040	0.030	0.030	0.030	0.050	0.070	0.080
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
<b>Indicator value</b>	<b>0.4</b>	<b>0.4</b>	<b>0.9</b>	<b>0.5</b>	<b>0.5</b>	<b>0.4</b>	<b>0.3</b>	<b>0.3</b>	<b>0.3</b>	<b>0.5</b>	<b>0.7</b>	<b>0.8</b>
<b>Reactor Coolant System Leakage</b>	<b>7/07</b>	<b>8/07</b>	<b>9/07</b>	<b>10/07</b>	<b>11/07</b>	<b>12/07</b>	<b>1/08</b>	<b>2/08</b>	<b>3/08</b>	<b>4/08</b>	<b>5/08</b>	<b>6/08</b>
Maximum leakage	0.080	0.070	0.080	0.060	0.010	0.020	0.010	0.020	0.020	0.020	0.050	0.040
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
<b>Indicator value</b>	<b>0.8</b>	<b>0.7</b>	<b>0.8</b>	<b>0.6</b>	<b>0.1</b>	<b>0.2</b>	<b>0.1</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.5</b>	<b>0.4</b>

Licensee Comments: none

# Drill/Exercise Performance



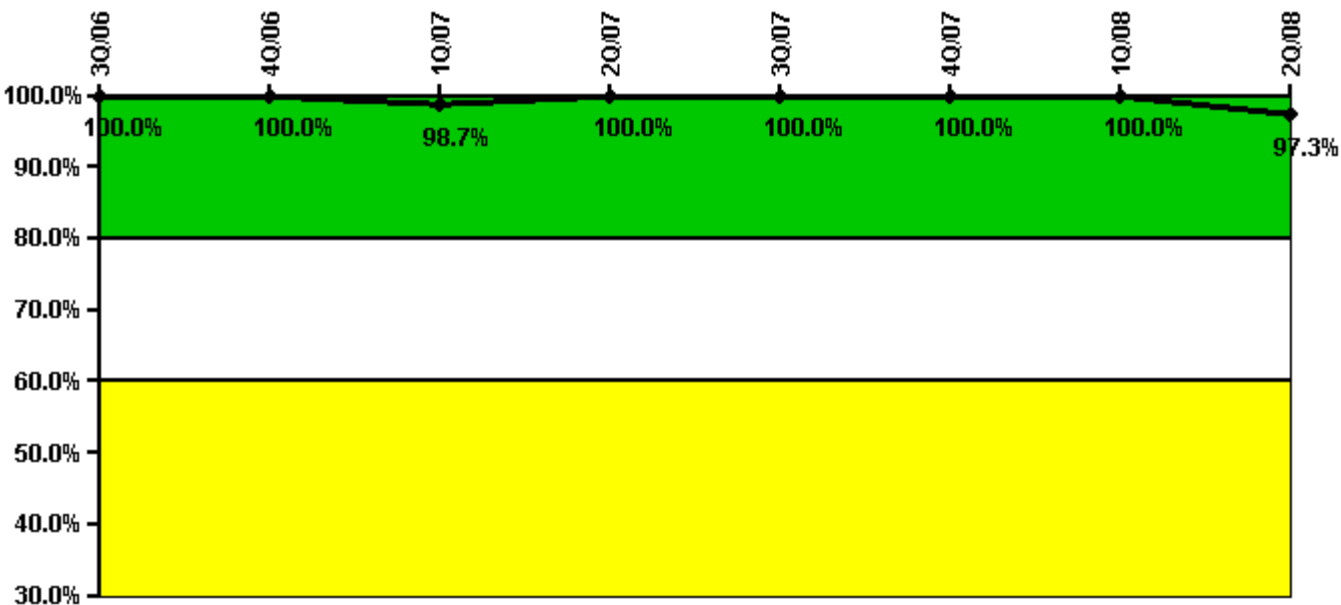
Thresholds: White < 90.0% Yellow < 70.0%

## Notes

Drill/Exercise Performance	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful opportunities	38.0	44.0	0	24.0	10.0	30.0	4.0	11.0
Total opportunities	38.0	48.0	0	26.0	10.0	32.0	4.0	12.0
Indicator value	96.1%	94.4%	94.0%	93.8%	93.5%	95.0%	94.9%	94.7%

Licensee Comments: none

# ERO Drill Participation



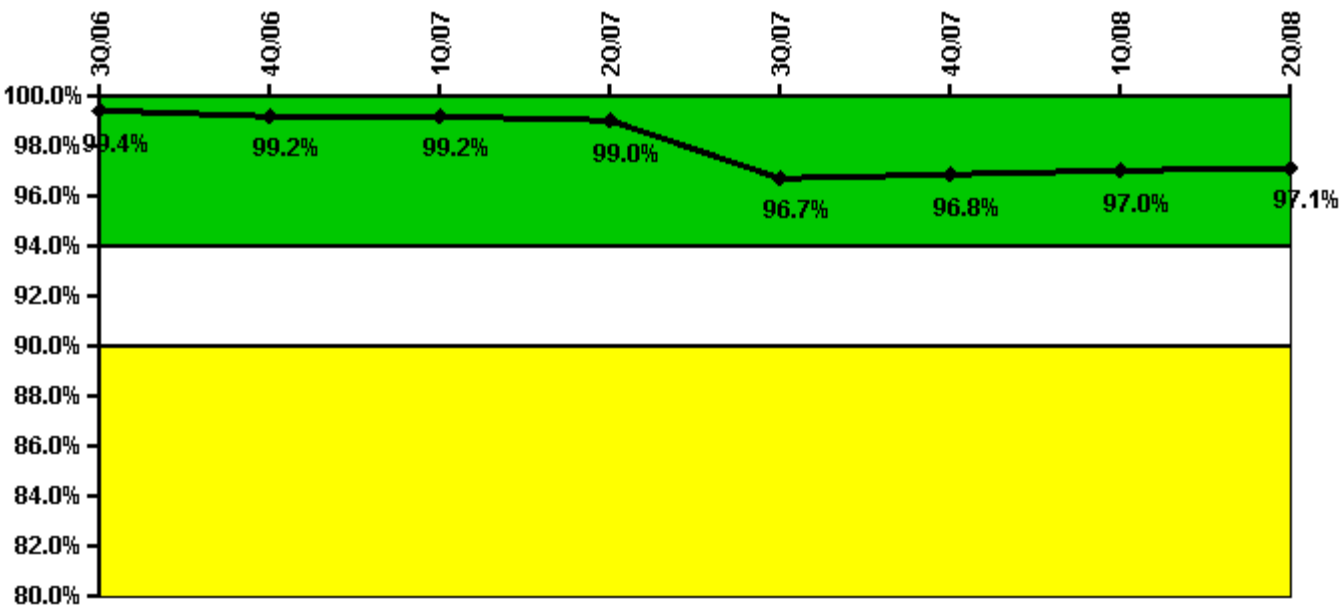
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Participating Key personnel	82.0	81.0	75.0	82.0	93.0	88.0	83.0	73.0
Total Key personnel	82.0	81.0	76.0	82.0	93.0	88.0	83.0	75.0
Indicator value	100.0%	100.0%	98.7%	100.0%	100.0%	100.0%	100.0%	97.3%

Licensee Comments: none

# Alert & Notification System



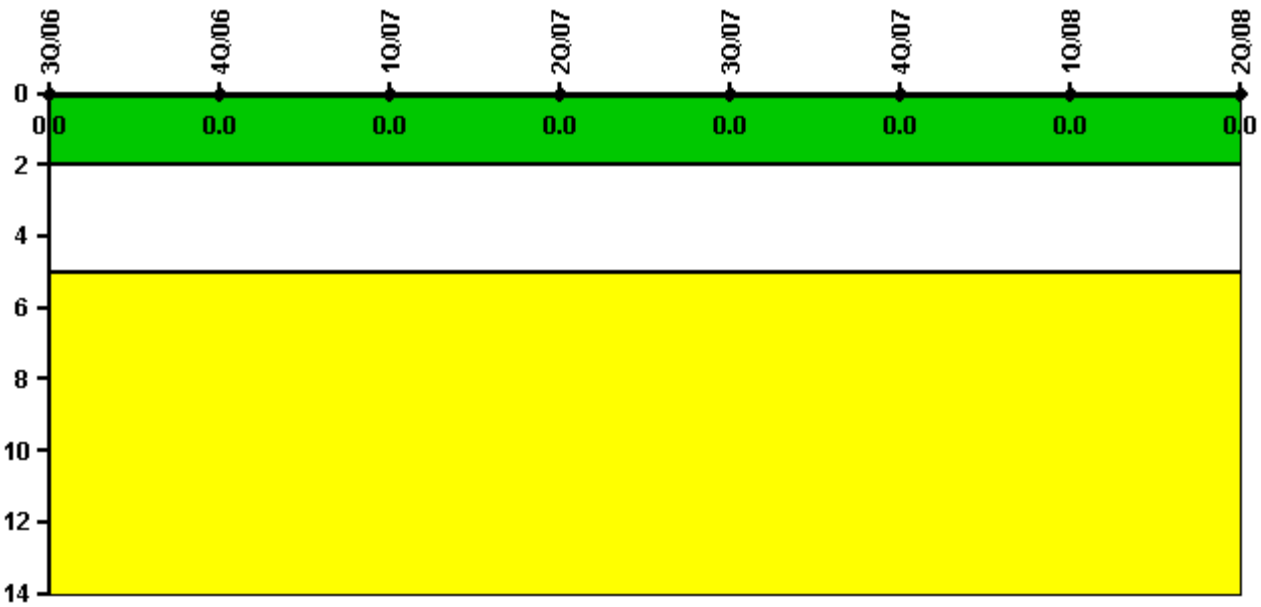
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful siren-tests	854	855	750	854	779	964	754	753
Total sirens-tests	861	864	756	864	864	972	756	756
Indicator value	99.4%	99.2%	99.2%	99.0%	96.7%	96.8%	97.0%	97.1%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/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	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/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: August 4, 2008