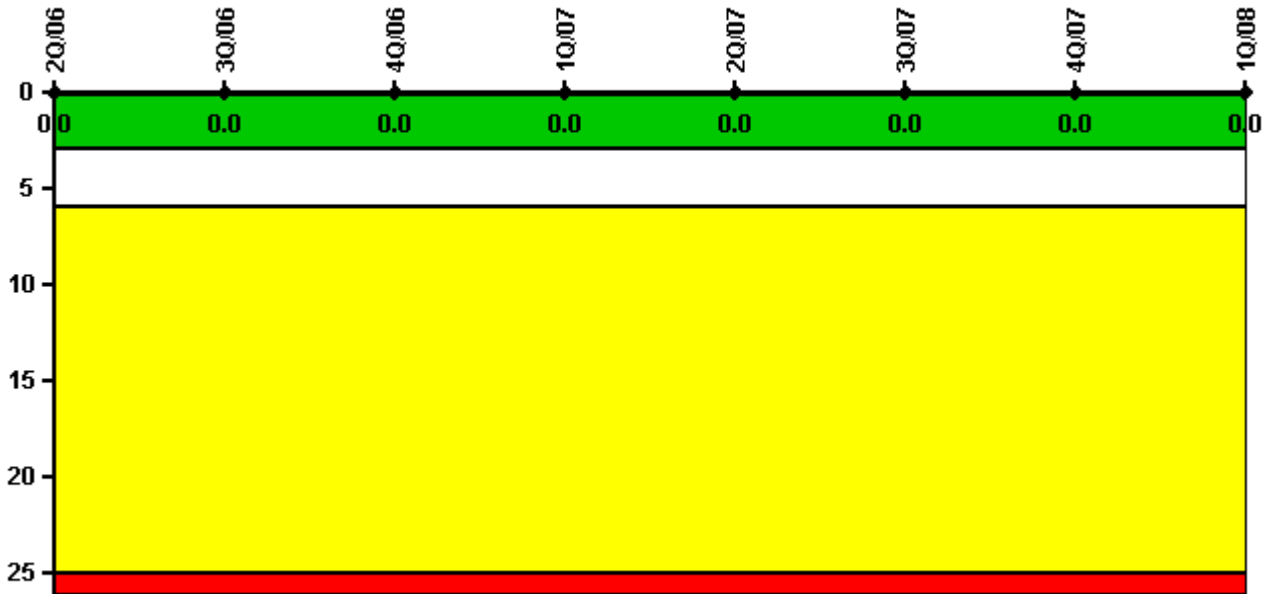


# Susquehanna 2

## 1Q/2008 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



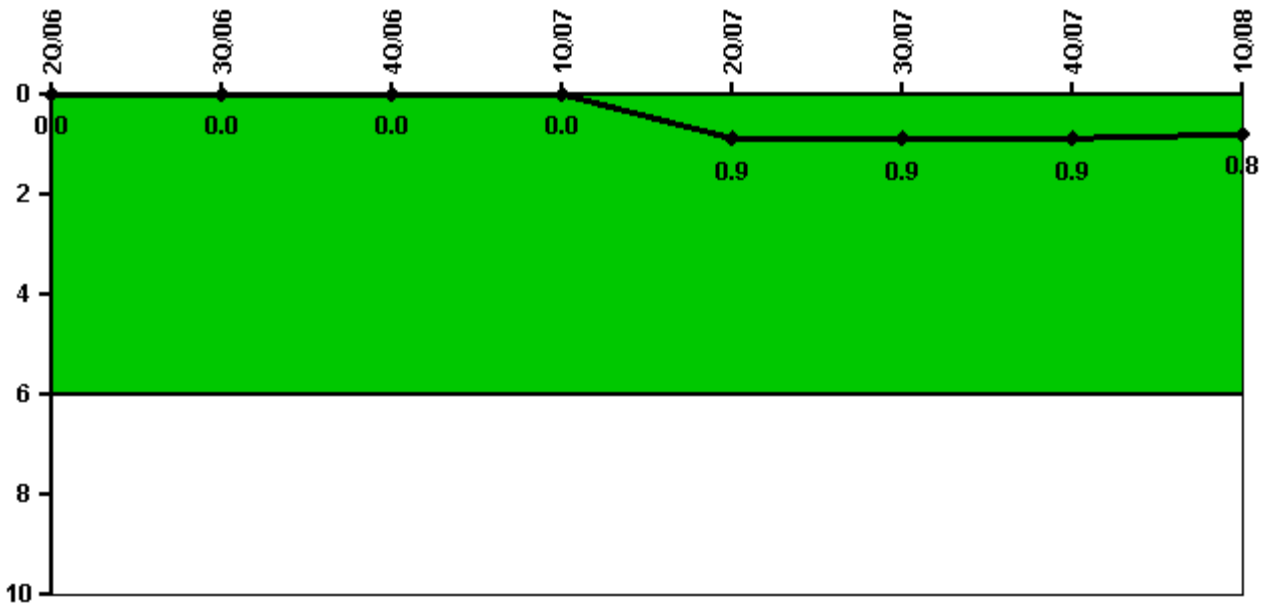
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### 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	2053.8	2188.9	1832.0	1471.7	1922.1	2208.0	2209.0	2183.0
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	1.0	0	0	0
Critical hours	2053.8	2188.9	1832.0	1471.7	1922.1	2208.0	2209.0	2183.0
Indicator value	0	0	0	0	0.9	0.9	0.9	0.8

Licensee Comments: none

# Unplanned Scrams with Complications



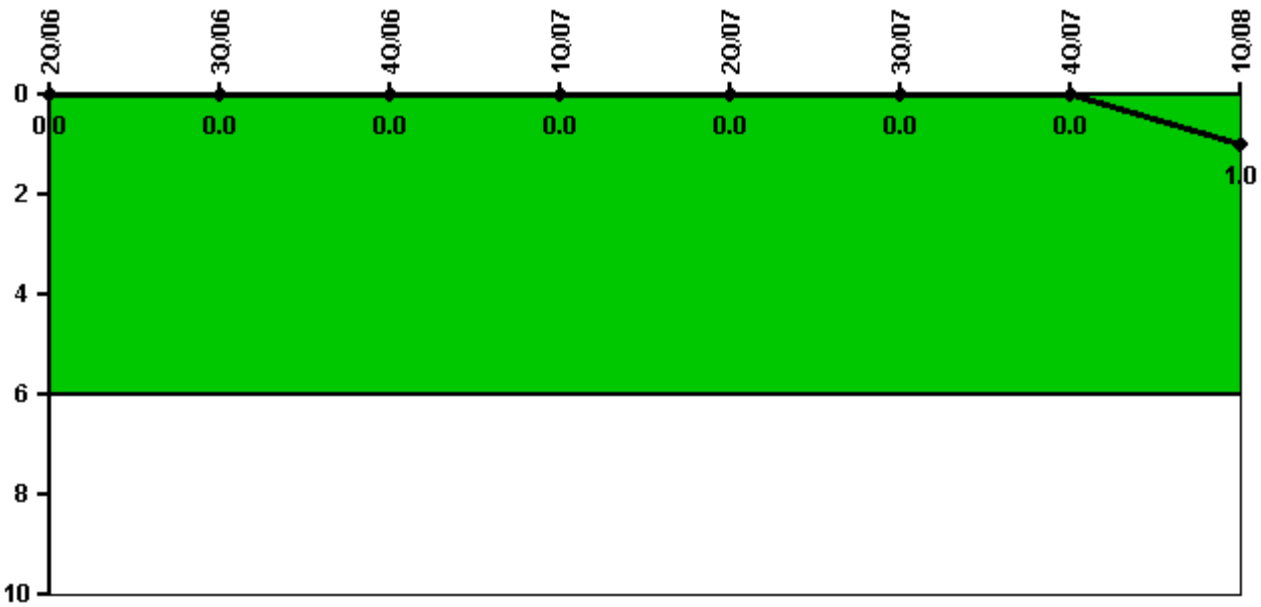
Thresholds: White > 1.0

## 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 (BWR)



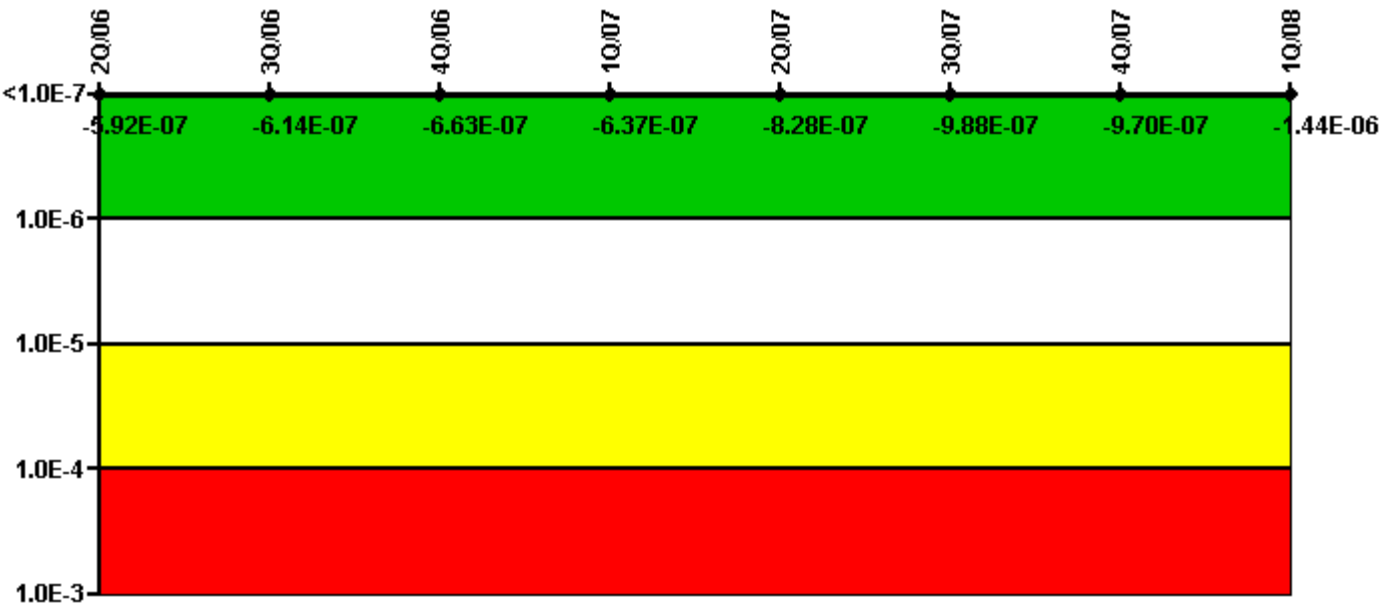
Thresholds: White > 6.0

## Notes

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

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



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

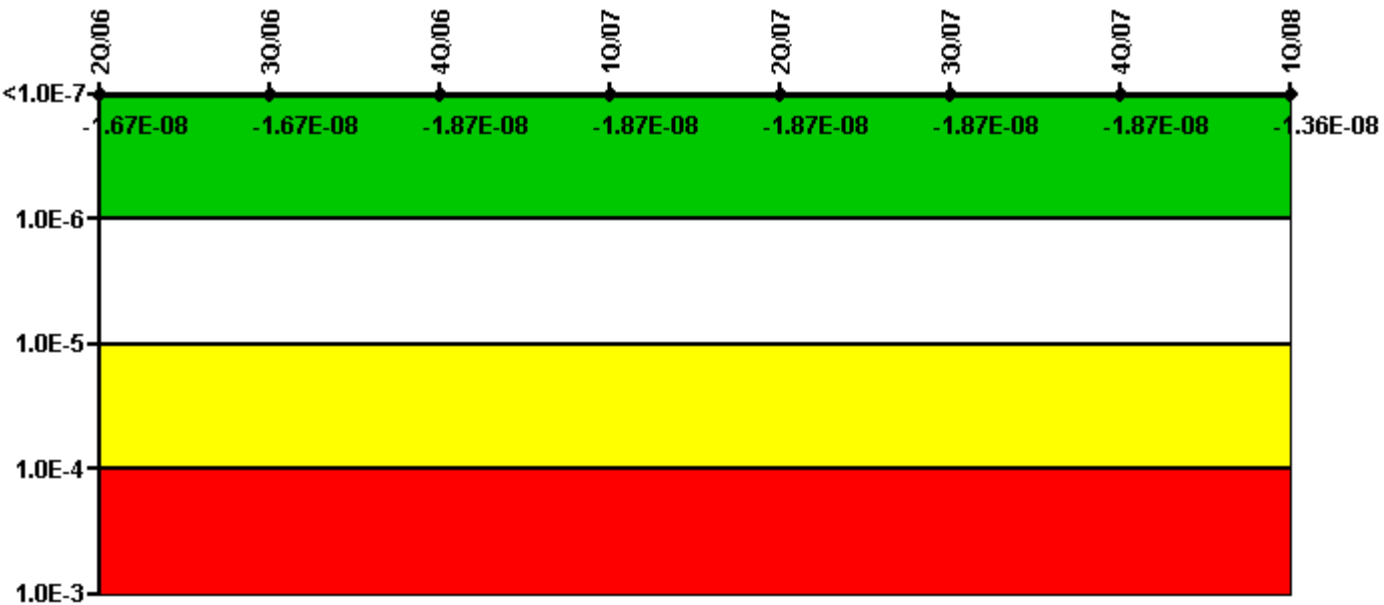
## Notes

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 ( $\Delta$ CDF)	-1.20E-08	-2.40E-08	-2.30E-08	-2.70E-08	-2.80E-08	-2.80E-08	-3.00E-08	-3.70E-08
URI ( $\Delta$ CDF)	-5.80E-07	-5.90E-07	-6.40E-07	-6.10E-07	-8.00E-07	-9.60E-07	-9.40E-07	-1.40E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.92E-07	-6.14E-07	-6.63E-07	-6.37E-07	-8.28E-07	-9.88E-07	-9.70E-07	-1.44E-06

Licensee Comments:

1Q/08: Changed PRA Parameter(s). PRA parameters have been changed based on Revision 4 of the MSPI Basis Document. There is no safety significance associated with these changes. There are no changes to the color of the current PI nor the previously reported color of this PI.

# Mitigating Systems Performance Index, High Pressure Injection System



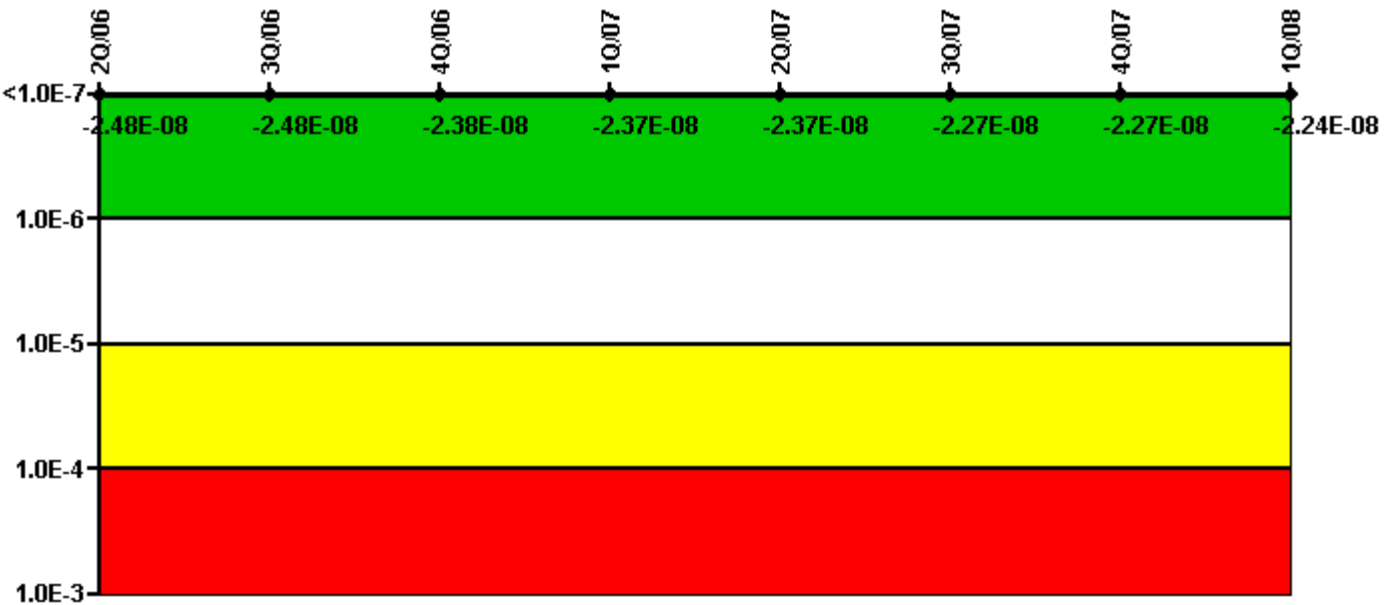
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## 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 (ΔCDF)	-4.70E-09	-4.70E-09	-4.70E-09	-4.70E-09	-4.70E-09	-4.70E-09	-4.70E-09	-5.10E-09
URI (ΔCDF)	-1.20E-08	-1.20E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-8.50E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.67E-08	-1.67E-08	-1.87E-08	-1.87E-08	-1.87E-08	-1.87E-08	-1.87E-08	-1.36E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



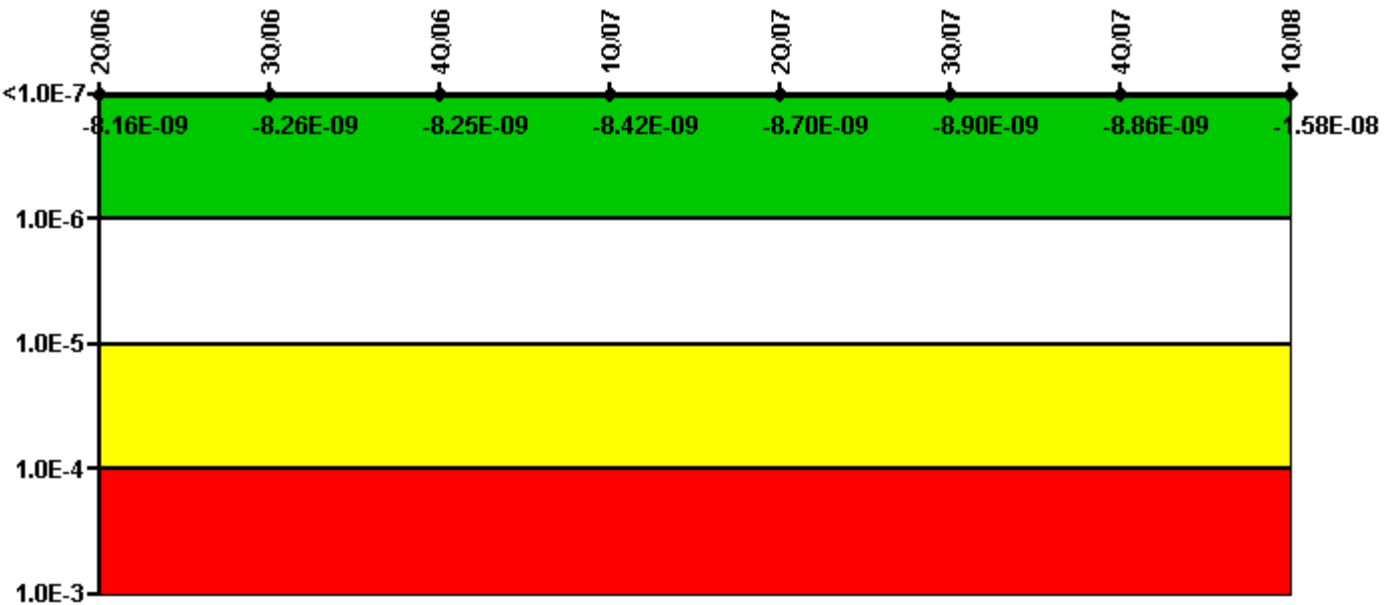
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## 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)	-6.80E-09	-6.80E-09	-4.80E-09	-4.70E-09	-4.70E-09	-4.70E-09	-4.70E-09	-7.40E-09
URI ( $\Delta$ CDF)	-1.80E-08	-1.80E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.80E-08	-1.80E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.48E-08	-2.48E-08	-2.38E-08	-2.37E-08	-2.37E-08	-2.27E-08	-2.27E-08	-2.24E-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

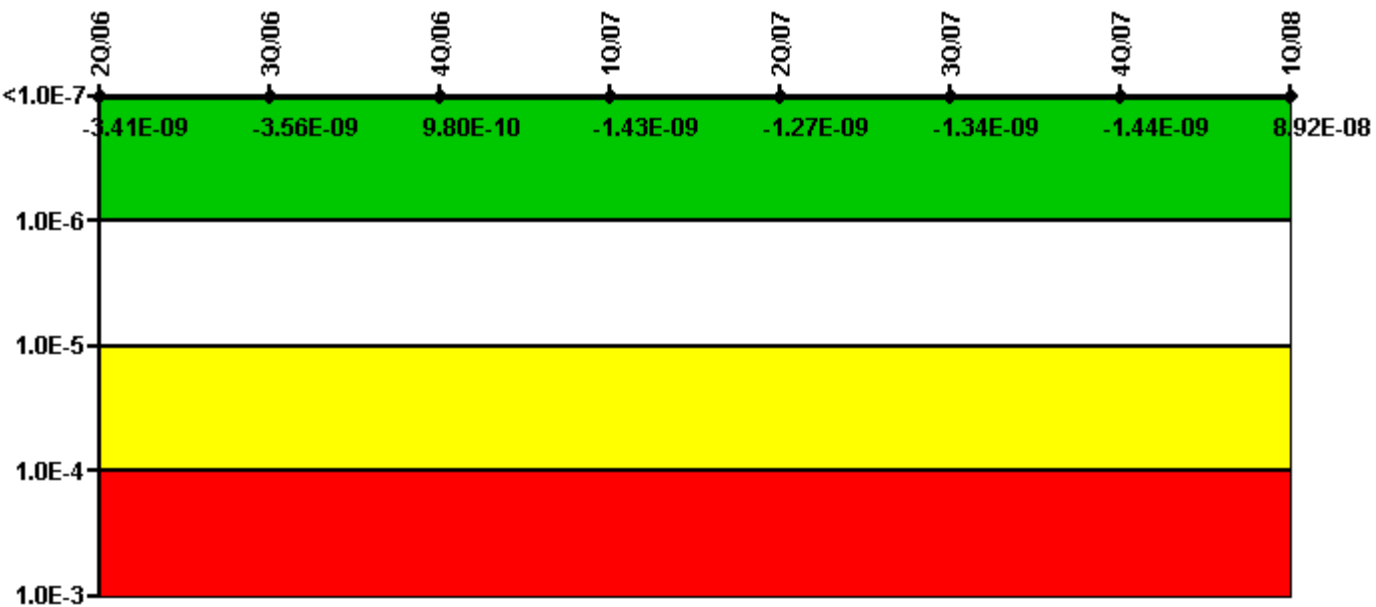
Mitigating Systems Performance Index, Residual Heat Removal System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI ( $\Delta$ CDF)	1.40E-10	4.20E-11	4.50E-10	4.80E-10	3.00E-10	2.00E-10	1.40E-10	-8.20E-10
URI ( $\Delta$ CDF)	-8.30E-09	-8.30E-09	-8.70E-09	-8.90E-09	-9.00E-09	-9.10E-09	-9.00E-09	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.16E-09	-8.26E-09	-8.25E-09	-8.42E-09	-8.70E-09	-8.90E-09	-8.86E-09	-1.58E-08

Licensee Comments:

1Q/08: Changed PRA Parameter(s). PRA parameters have been changed based on Revision 4 of the MSPI Basis Document. There is no safety significance associated with these changes. There are no changes to the color of the current PI nor the previously reported color of this PI.



# Mitigating Systems Performance Index, Cooling Water Systems



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

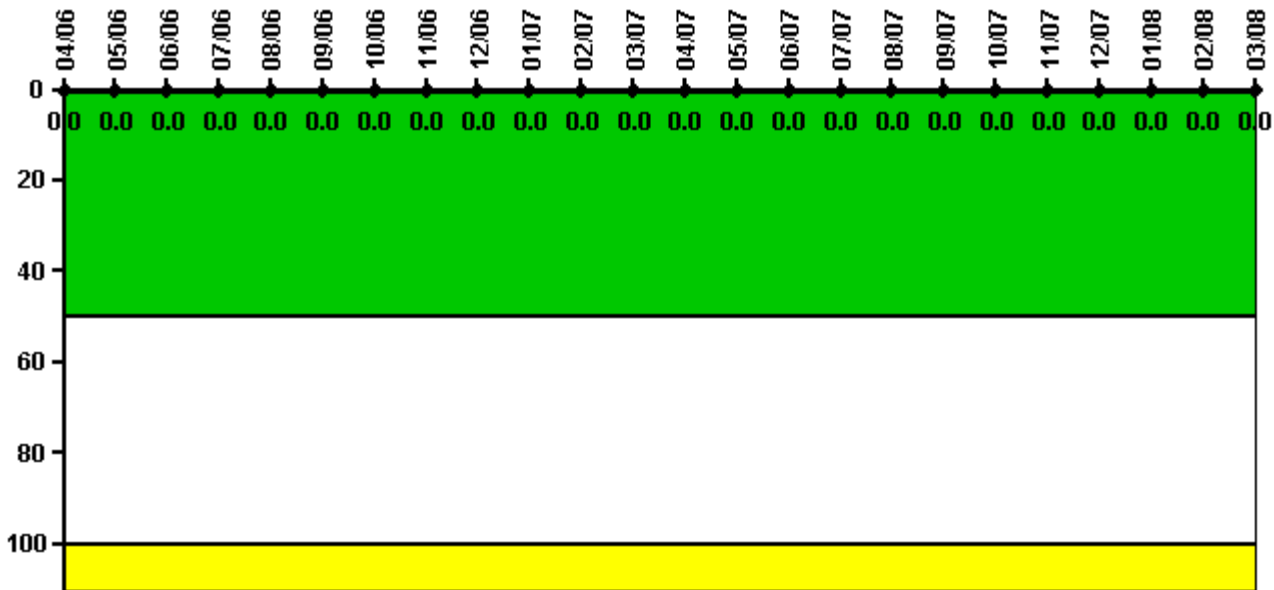
## Notes

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)	5.90E-10	6.40E-10	6.50E-10	6.70E-10	8.30E-10	8.60E-10	8.60E-10	9.50E-08
URI ( $\Delta$ CDF)	-4.00E-09	-4.20E-09	3.30E-10	-2.10E-09	-2.10E-09	-2.20E-09	-2.30E-09	-5.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.41E-09	-3.56E-09	9.80E-10	-1.43E-09	-1.27E-09	-1.34E-09	-1.44E-09	8.92E-08

Licensee Comments:

1Q/08: Changed PRA Parameter(s). PRA parameters have been changed based on Revision 4 of the MSPI Basis Document. There is no safety significance associated with these changes. There are no changes to the color of the current PI nor the previously reported color of this PI.

# Reactor Coolant System Activity



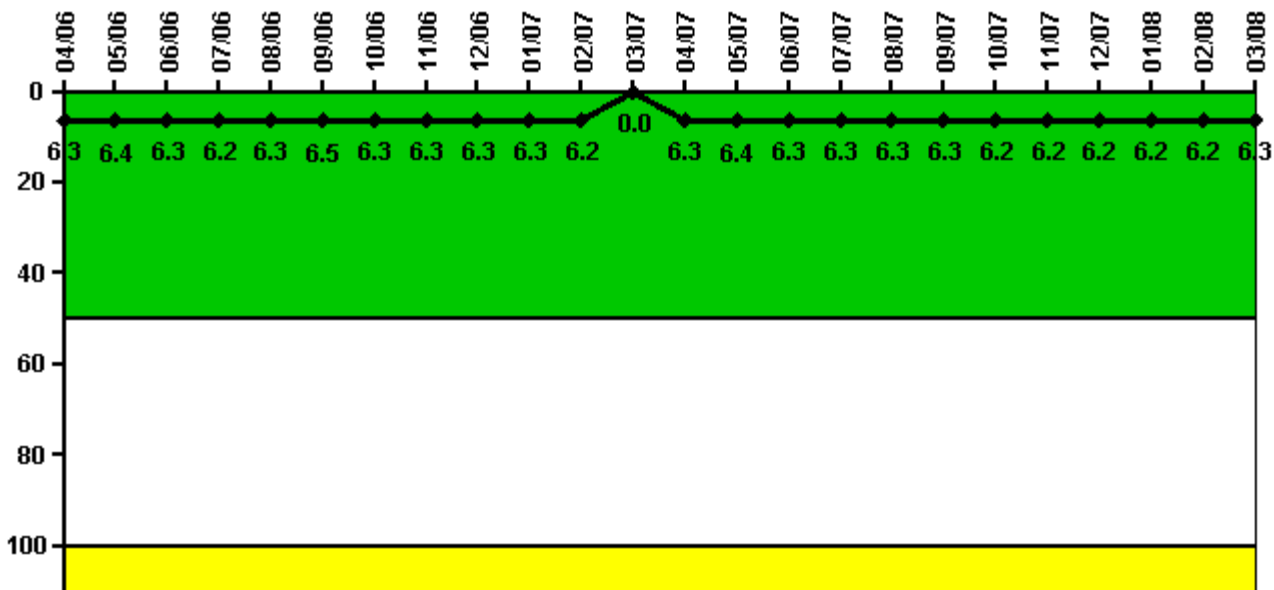
Thresholds: White > 50.0 Yellow > 100.0

## 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	0.000005	0.000004	0.000005	0.000005	0.000005	0.000006	0.000006	0.000005	0.000005	0.000005	0.000005	0.000004
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	0	0	0	0	0	0	0	0	0
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	0.000001	0.000002	0.000002	0.000002	0.000002	0.000006	0.000006	0.000007	0.000007	0.000007	0.000007	0.000007
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	0	0	0	0	0	0	0	0	0

Licensee Comments: none

# Reactor Coolant System Leakage



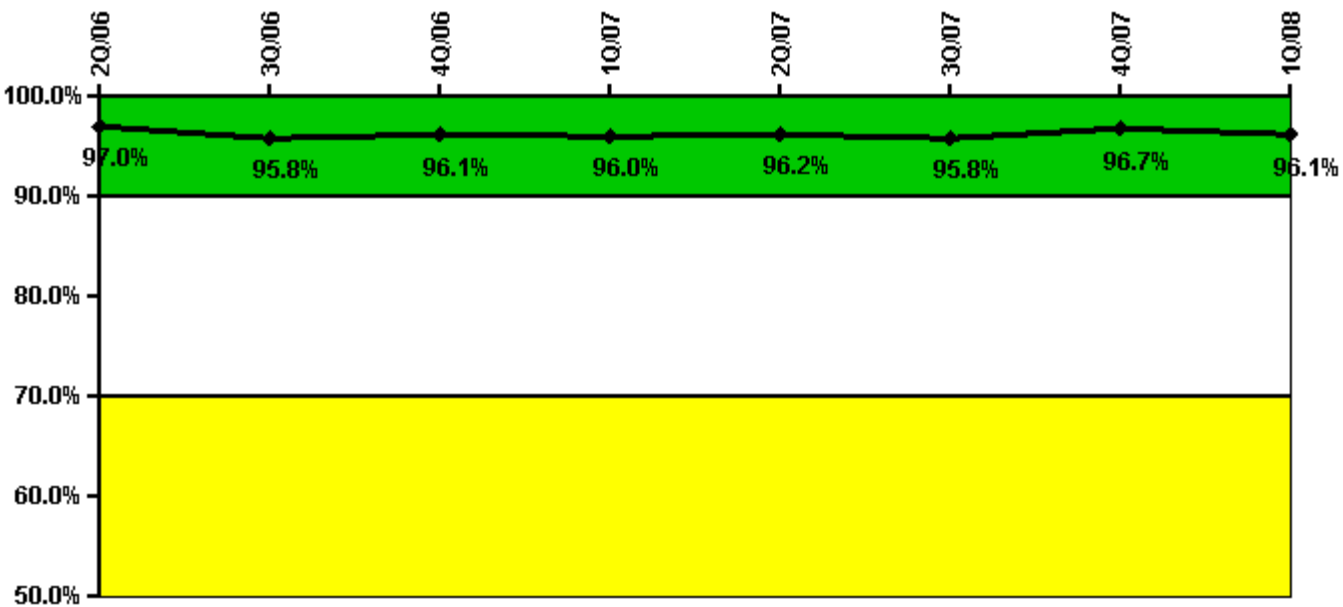
Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Leakage	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	1.580	1.590	1.570	1.560	1.570	1.620	1.570	1.570	1.570	1.580	1.560	0
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	6.3	6.4	6.3	6.2	6.3	6.5	6.3	6.3	6.3	6.3	6.2	0
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	1.580	1.590	1.580	1.580	1.580	1.570	1.560	1.550	1.550	1.560	1.550	1.580
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	6.3	6.4	6.3	6.3	6.3	6.3	6.2	6.2	6.2	6.2	6.2	6.3

Licensee Comments: none

# Drill/Exercise Performance



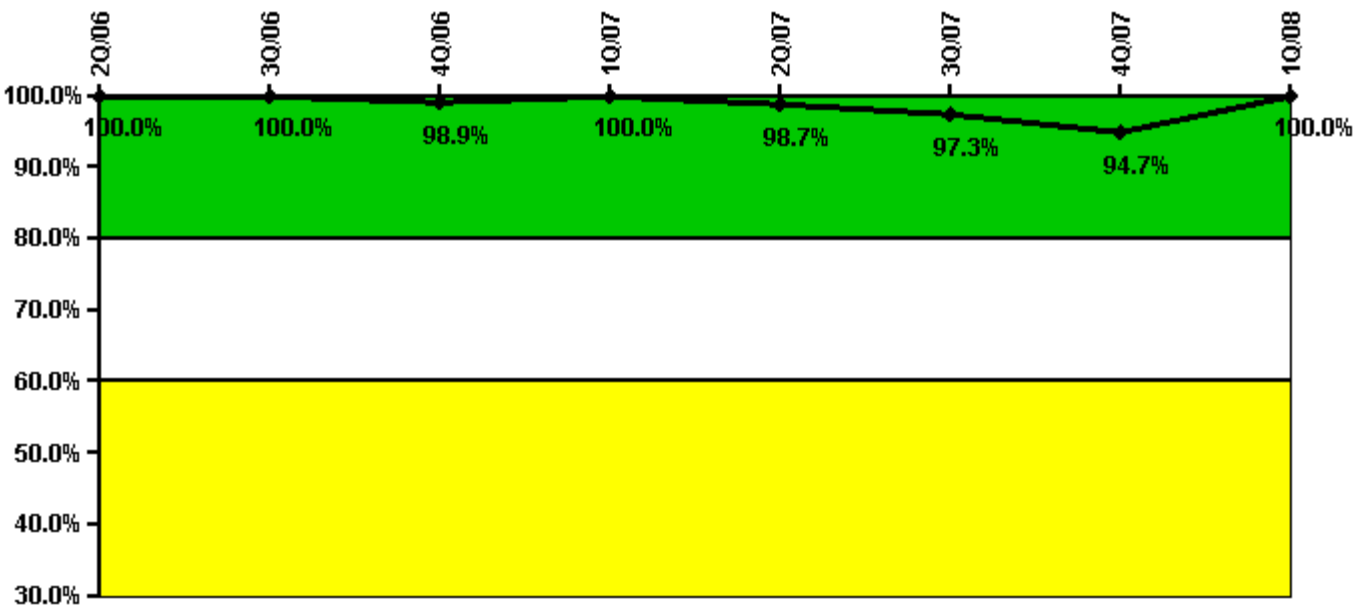
Thresholds: White < 90.0% Yellow < 70.0%

## Notes

Drill/Exercise Performance	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful opportunities	8.0	18.0	8.0	8.0	35.0	16.0	13.0	17.0
Total opportunities	9.0	20.0	8.0	8.0	36.0	16.0	13.0	18.0
Indicator value	97.0%	95.8%	96.1%	96.0%	96.2%	95.8%	96.7%	96.1%

Licensee Comments: none

# ERO Drill Participation



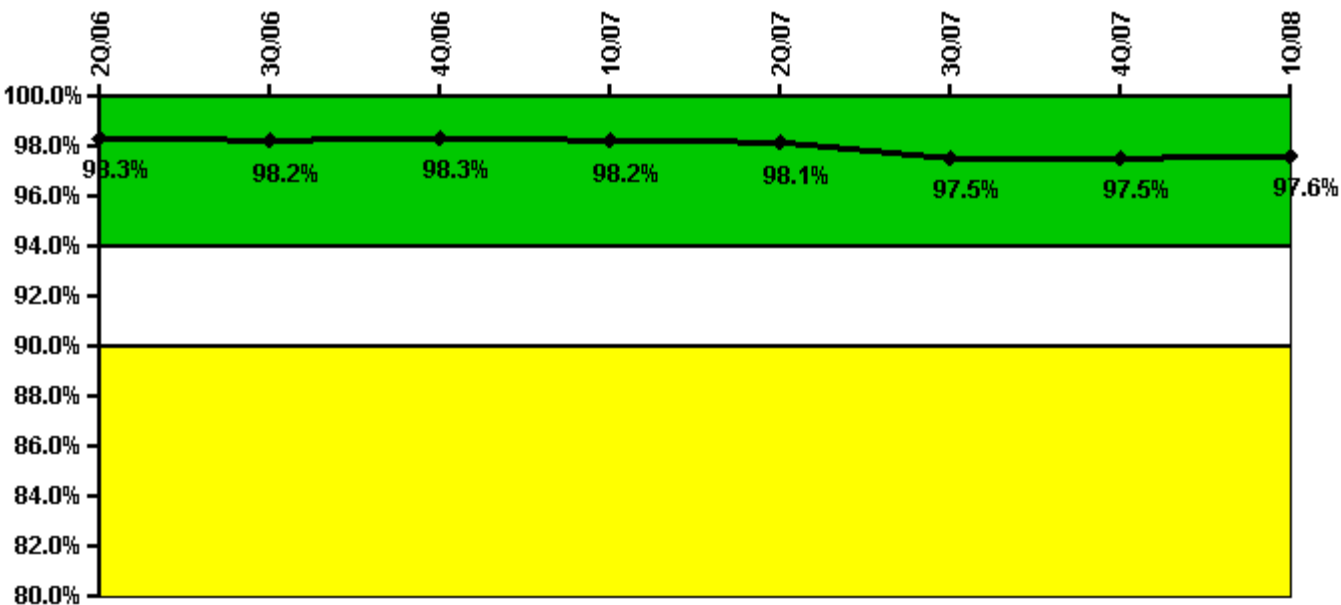
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Participating Key personnel	92.0	91.0	86.0	80.0	76.0	73.0	71.0	72.0
Total Key personnel	92.0	91.0	87.0	80.0	77.0	75.0	75.0	72.0
Indicator value	100.0%	100.0%	98.9%	100.0%	98.7%	97.3%	94.7%	100.0%

Licensee Comments: none

# Alert & Notification System



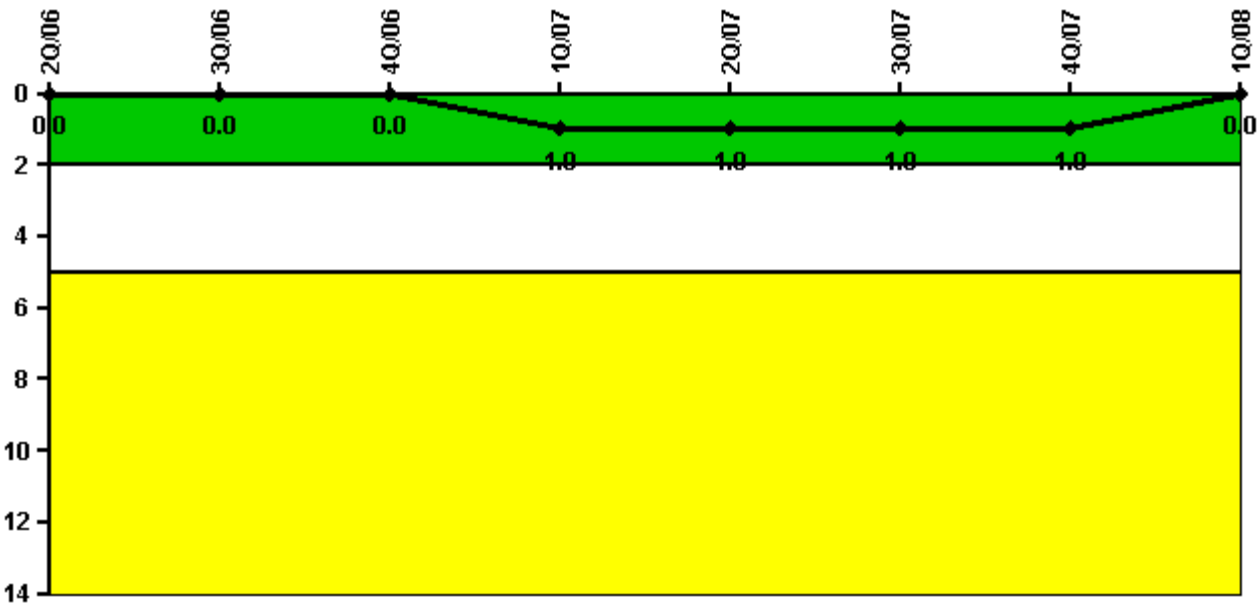
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful siren-tests	660	880	882	879	765	970	736	883
Total sirens-tests	672	896	896	896	784	1008	748	896
Indicator value	98.3%	98.2%	98.3%	98.2%	98.1%	97.5%	97.5%	97.6%

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	1	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>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>

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