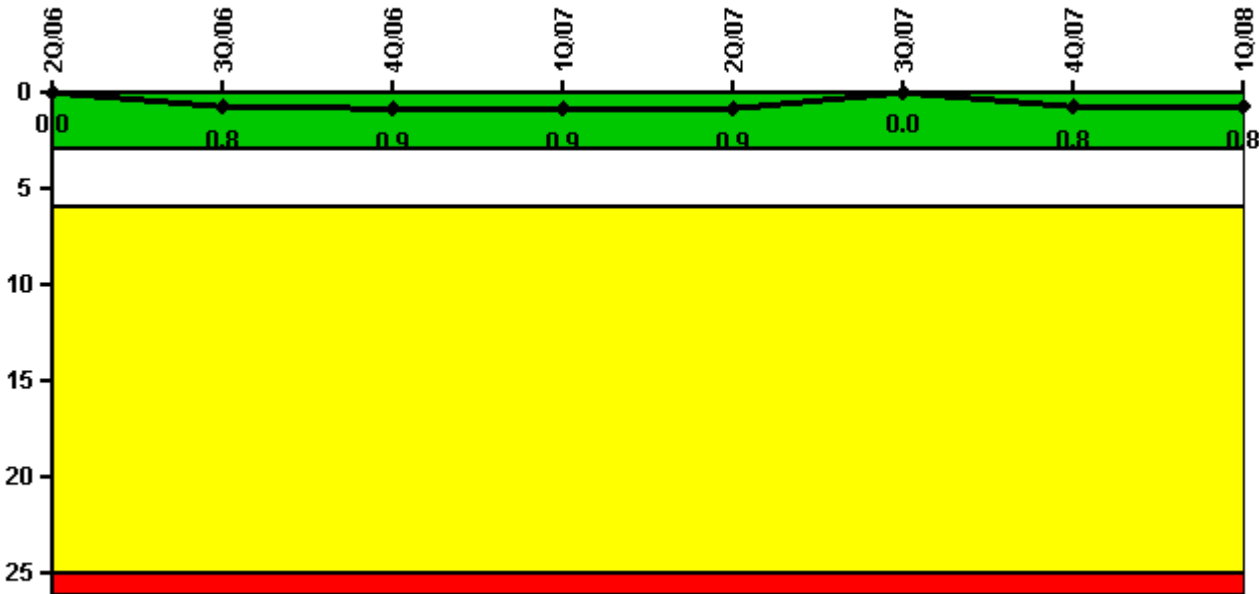


# Palo Verde 2

## 1Q/2008 Performance Indicators

Licensee's General Comments: PP01 data from 1Q2006 through 4Q2007 was revised based on corrective actions related to equipment log keeping practices. No color change occurred as a result of the revisions.

### Unplanned Scrams per 7000 Critical Hrs



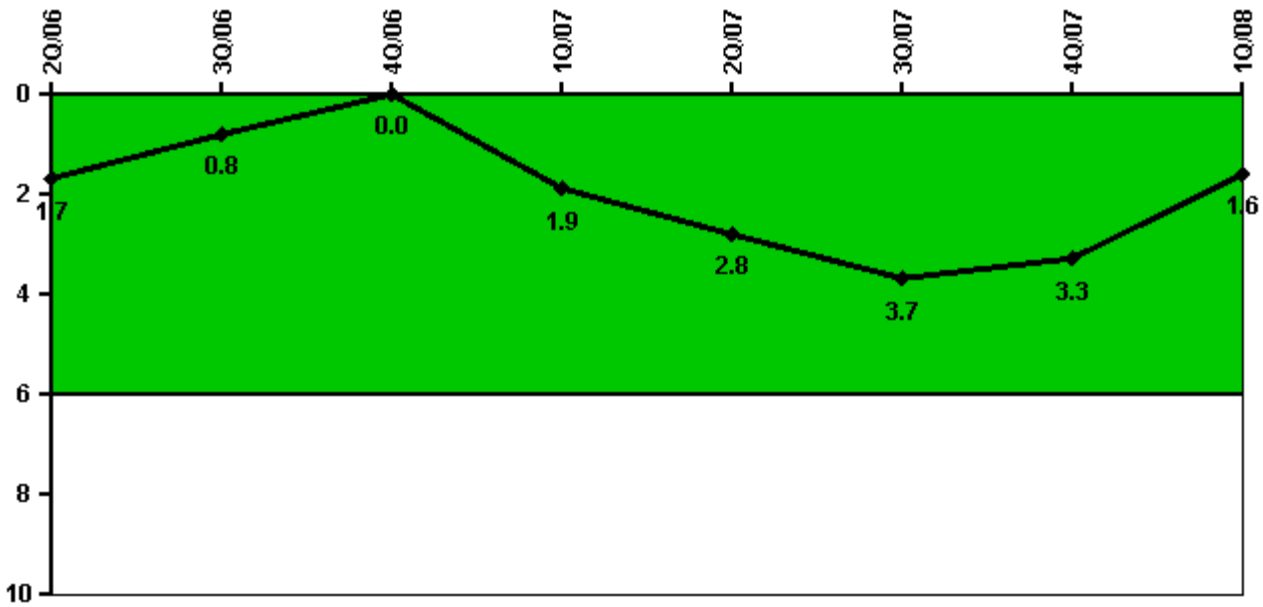
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### 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	1.0	0	0	0	0	1.0	0
Critical hours	2131.7	2147.5	1170.1	2016.8	2184.0	2208.0	2069.1	2112.0
Indicator value	0	0.8	0.9	0.9	0.9	0	0.8	0.8

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	2.0	1.0	1.0	0	0
Critical hours	2131.7	2147.5	1170.1	2016.8	2184.0	2208.0	2069.1	2112.0
Indicator value	1.7	0.8	0	1.9	2.8	3.7	3.3	1.6

Licensee Comments: none

# Unplanned Scrams with Complications



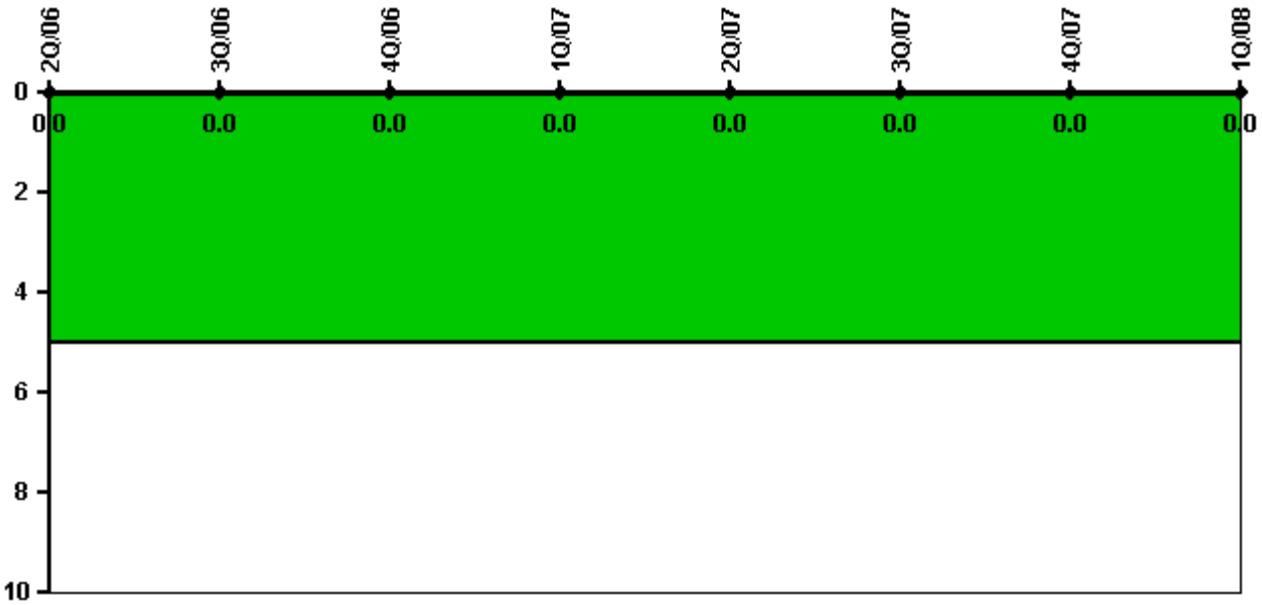
Thresholds: White > 1.0

## 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)



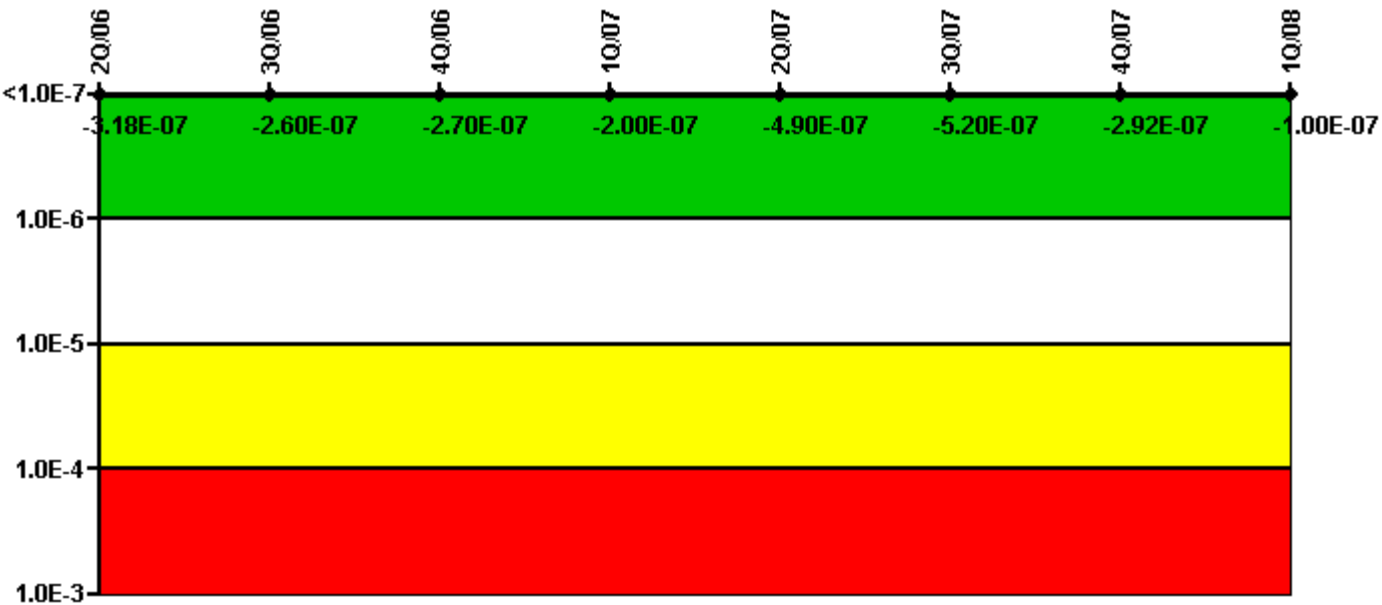
Thresholds: White > 5.0

## 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	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

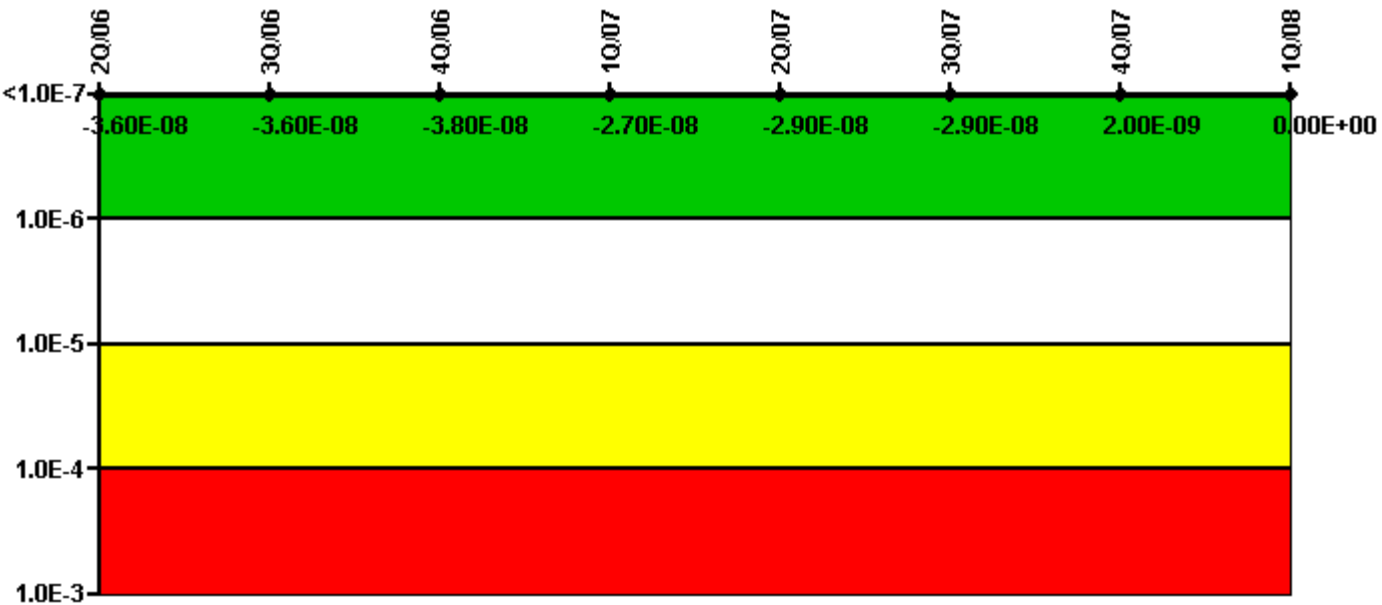
## Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	7.20E-08	1.20E-07	1.10E-07	1.80E-07	1.60E-07	1.30E-07	7.80E-08	1.20E-07
URI (ΔCDF)	-3.90E-07	-3.80E-07	-3.80E-07	-3.80E-07	-6.50E-07	-6.50E-07	-3.70E-07	-2.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.18E-07	-2.60E-07	-2.70E-07	-2.00E-07	-4.90E-07	-5.20E-07	-2.92E-07	-1.00E-07

Licensee Comments:

1Q/08: Changed PRA Parameter(s).

# Mitigating Systems Performance Index, High Pressure Injection System



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

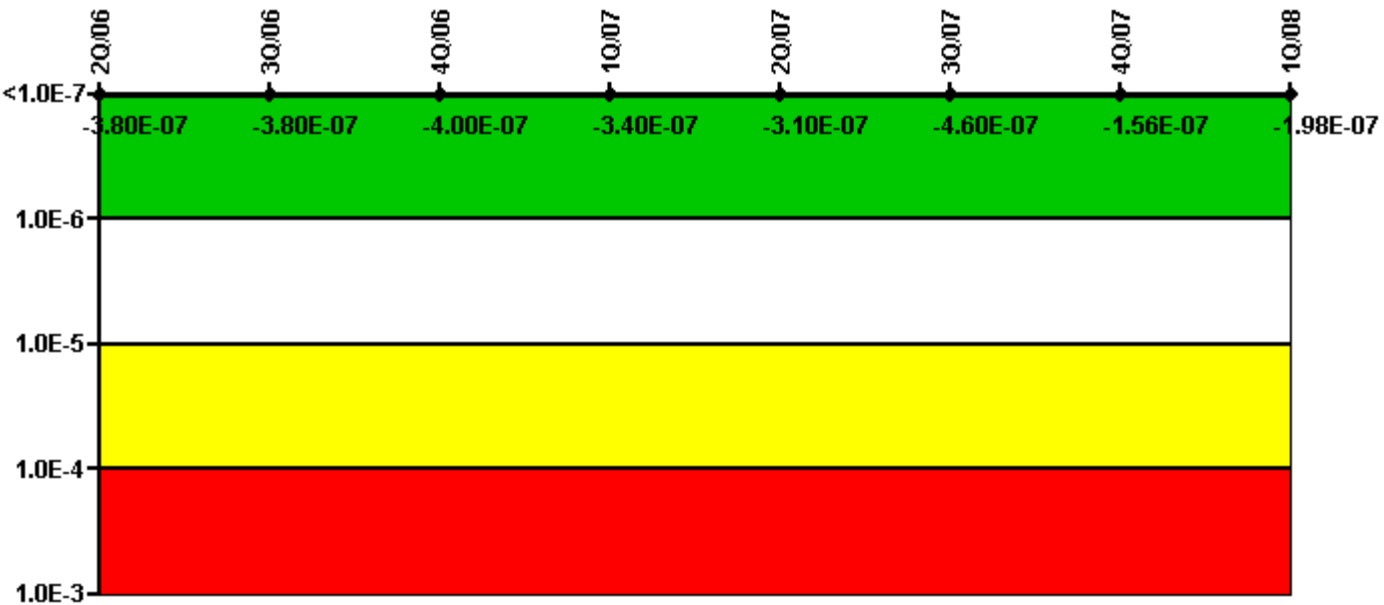
## Notes

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)	3.80E-08	3.80E-08	3.60E-08	4.70E-08	4.50E-08	4.50E-08	1.70E-08	1.50E-08
URI ( $\Delta$ CDF)	-7.40E-08	-7.40E-08	-7.40E-08	-7.40E-08	-7.40E-08	-7.40E-08	-1.50E-08	-1.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.60E-08	-3.60E-08	-3.80E-08	-2.70E-08	-2.90E-08	-2.90E-08	2.00E-09	0.00E+00

Licensee Comments:

1Q/08: Changed PRA Parameter(s).

# Mitigating Systems Performance Index, Heat Removal System



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

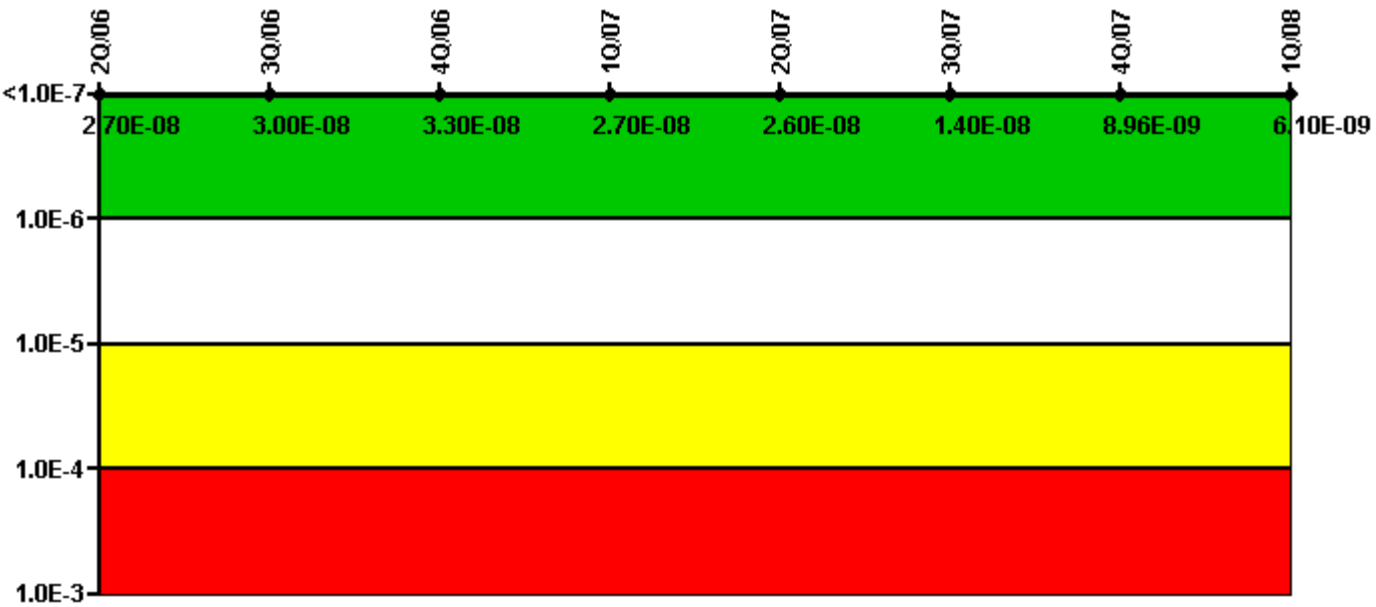
## Notes

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)	2.30E-07	2.30E-07	2.10E-07	2.70E-07	2.90E-07	1.40E-07	6.40E-08	2.20E-08
URI ( $\Delta$ CDF)	-6.10E-07	-6.10E-07	-6.10E-07	-6.10E-07	-6.00E-07	-6.00E-07	-2.20E-07	-2.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.80E-07	-3.80E-07	-4.00E-07	-3.40E-07	-3.10E-07	-4.60E-07	-1.56E-07	-1.98E-07

Licensee Comments:

1Q/08: Changed PRA Parameter(s).

# Mitigating Systems Performance Index, Residual Heat Removal System



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

## Notes

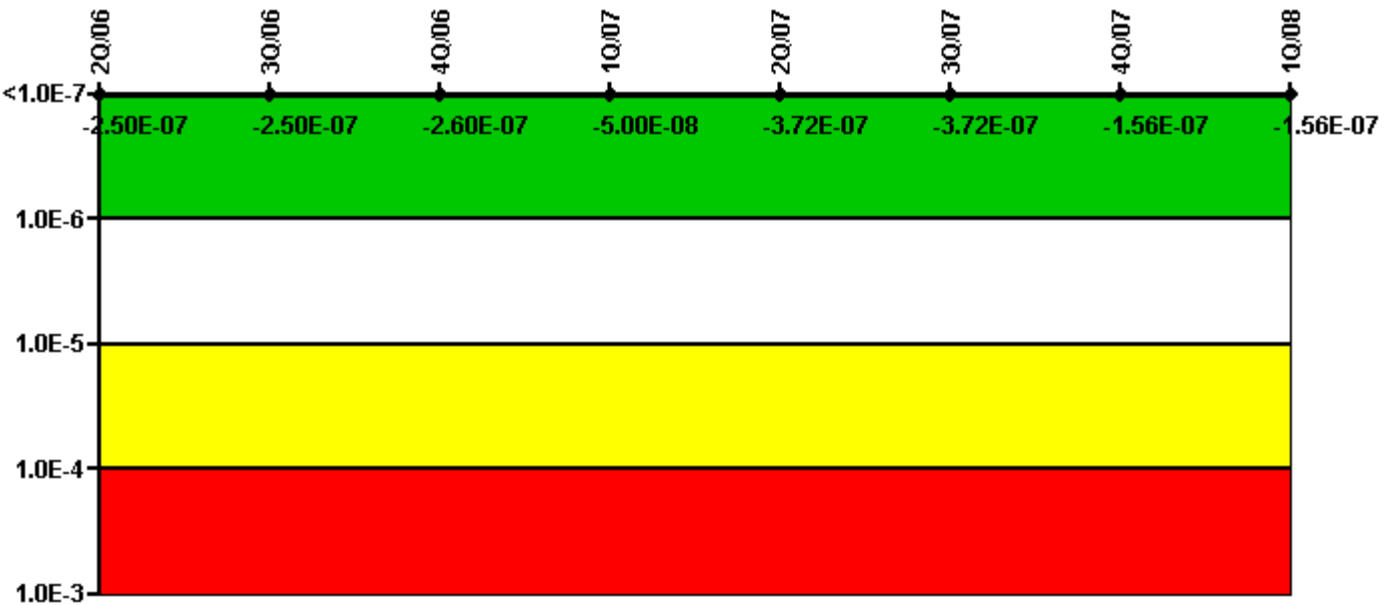
Mitigating Systems Performance Index, Residual Heat Removal System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI ( $\Delta$ CDF)	1.40E-08	1.70E-08	2.00E-08	1.40E-08	1.30E-08	9.90E-10	-4.40E-10	-3.30E-09
URI ( $\Delta$ CDF)	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	1.30E-08	9.40E-09	9.40E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.70E-08	3.00E-08	3.30E-08	2.70E-08	2.60E-08	1.40E-08	8.96E-09	6.10E-09

Licensee Comments:

1Q/08: Changed PRA Parameter(s).



# Mitigating Systems Performance Index, Cooling Water Systems



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

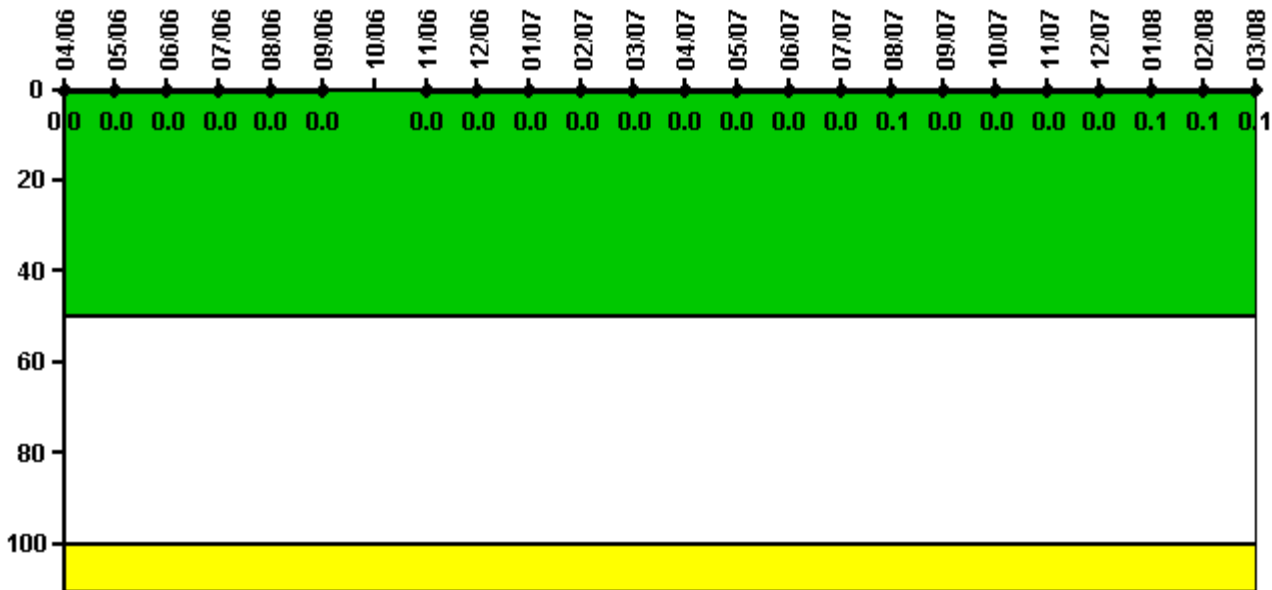
## Notes

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)	1.30E-07	1.30E-07	1.20E-07	3.30E-07	7.90E-09	7.90E-09	4.20E-09	4.20E-09
URI ( $\Delta$ CDF)	-3.80E-07	-3.80E-07	-3.80E-07	-3.80E-07	-3.80E-07	-3.80E-07	-1.60E-07	-1.60E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-07	-2.50E-07	-2.60E-07	-5.00E-08	-3.72E-07	-3.72E-07	-1.56E-07	-1.56E-07

Licensee Comments:

1Q/08: Changed PRA Parameter(s).

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

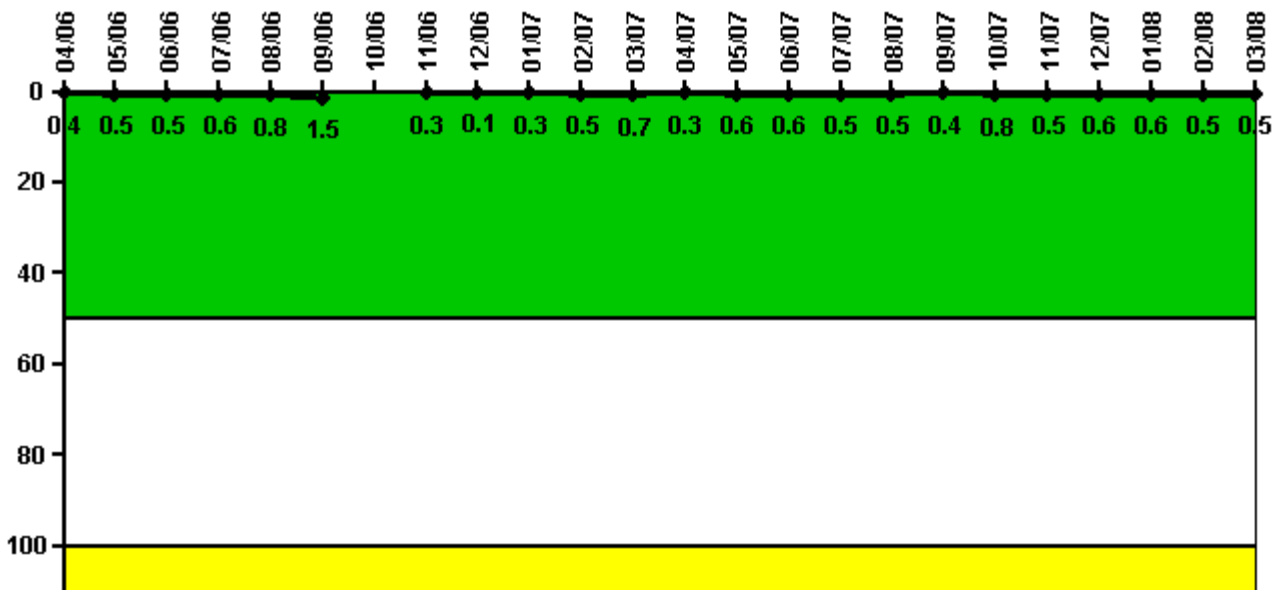
Reactor Coolant System Activity	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum activity	0.000286	0.000299	0.000305	0.000317	0.000314	0.000316	N/A	0.000201	0.000209	0.000244	0.000238	0.000219
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	0	N/A	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	0.000226	0.000227	0.000235	0.000248	0.000711	0.000264	0.000484	0.000381	0.000443	0.000563	0.000739	0.000743
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	0	0	0	0.1	0	0	0	0	0.1	0.1	0.1

Licensee Comments: none

# Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

## Notes

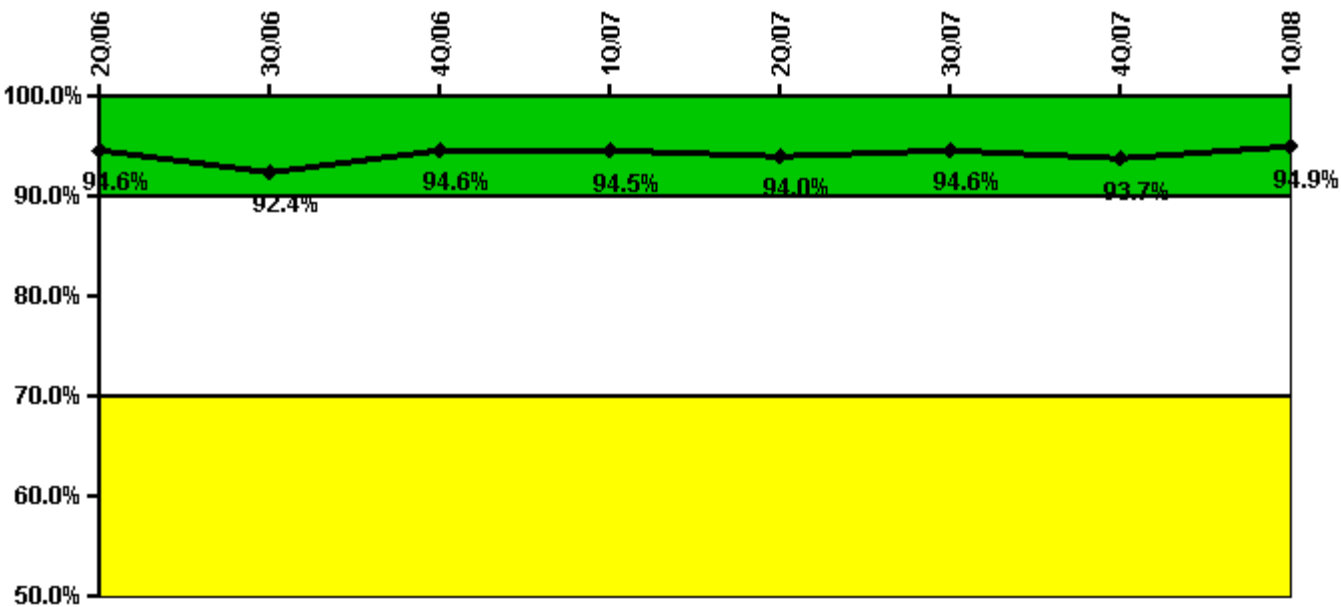
Reactor Coolant System Leakage	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07
Maximum leakage	0.042	0.046	0.054	0.058	0.083	0.152	N/A	0.030	0.013	0.030	0.049	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.4	0.5	0.5	0.6	0.8	1.5	N/A	0.3	0.1	0.3	0.5	0.7

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	0.028	0.063	0.055	0.047	0.051	0.041	0.076	0.048	0.056	0.058	0.049	0.050
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	0.3	0.6	0.6	0.5	0.5	0.4	0.8	0.5	0.6	0.6	0.5	0.5

Licensee Comments: none

# Drill/Exercise Performance



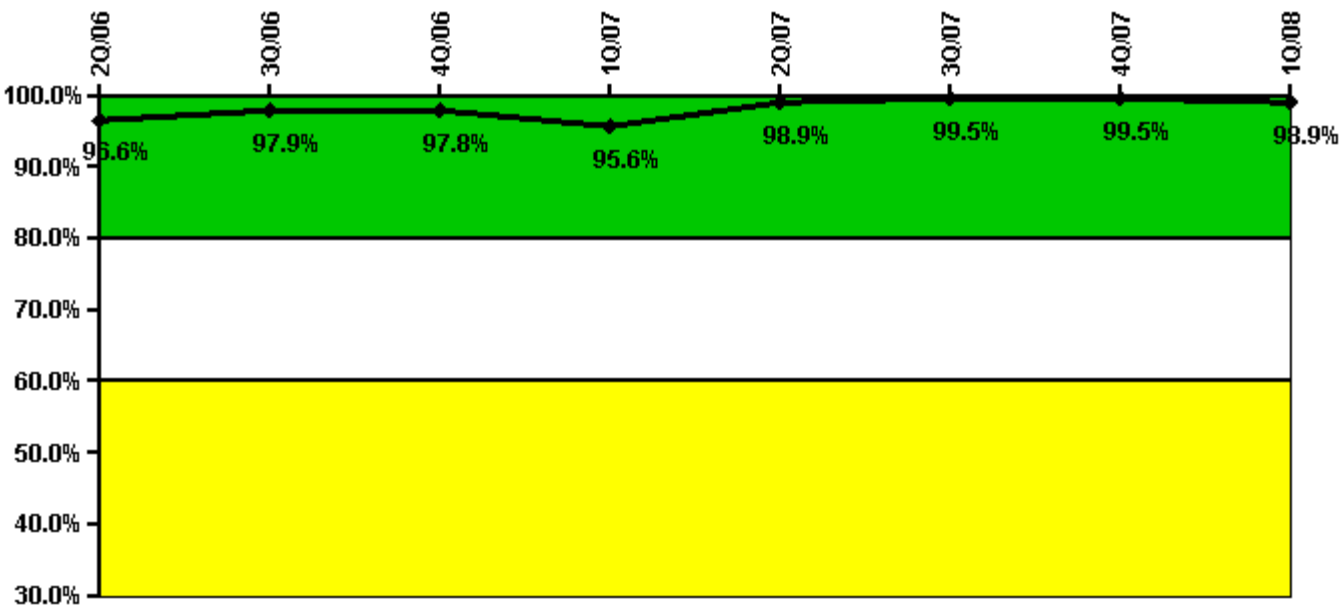
Thresholds: White < 90.0% Yellow < 70.0%

## Notes

Drill/Exercise Performance	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful opportunities	5.0	57.0	97.0	18.0	13.0	191.0	12.0	130.0
Total opportunities	5.0	64.0	102.0	19.0	16.0	200.0	12.0	133.0
Indicator value	94.6%	92.4%	94.6%	94.5%	94.0%	94.6%	93.7%	94.9%

Licensee Comments: none

# ERO Drill Participation



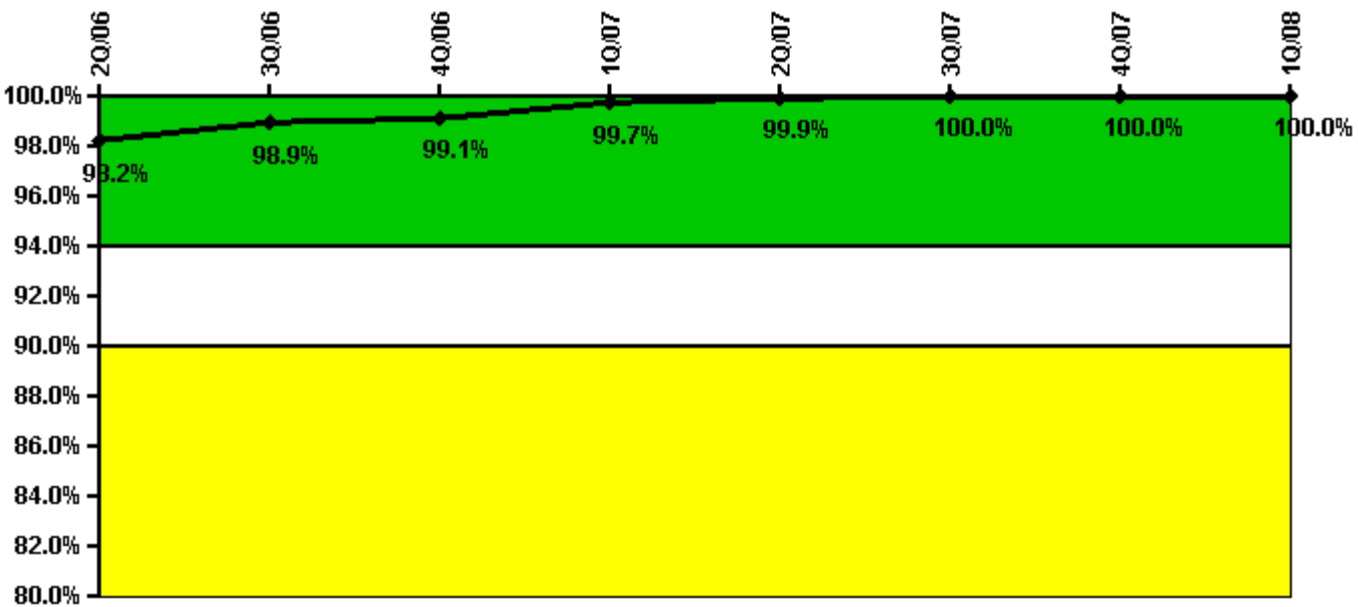
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Participating Key personnel	168.0	186.0	179.0	175.0	181.0	199.0	192.0	188.0
Total Key personnel	174.0	190.0	183.0	183.0	183.0	200.0	193.0	190.0
Indicator value	96.6%	97.9%	97.8%	95.6%	98.9%	99.5%	99.5%	98.9%

Licensee Comments: none

# Alert & Notification System



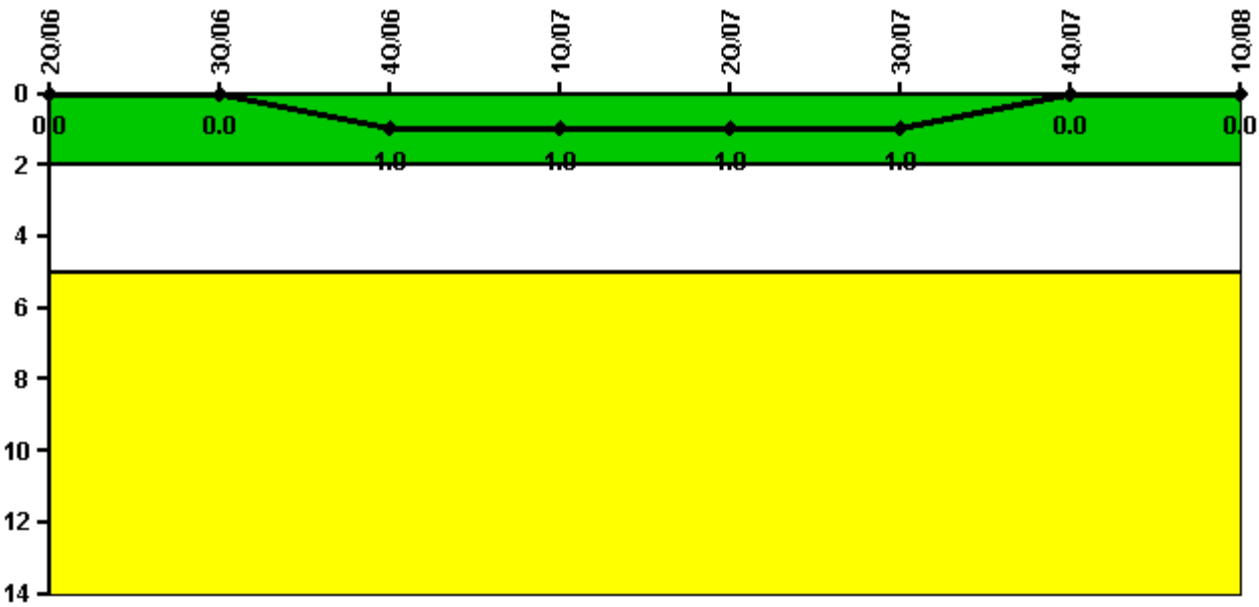
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful siren-tests	792	797	792	798	798	756	882	755
Total sirens-tests	798	798	793	798	798	756	882	756
Indicator value	98.2%	98.9%	99.1%	99.7%	99.9%	100.0%	100.0%	100.0%

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