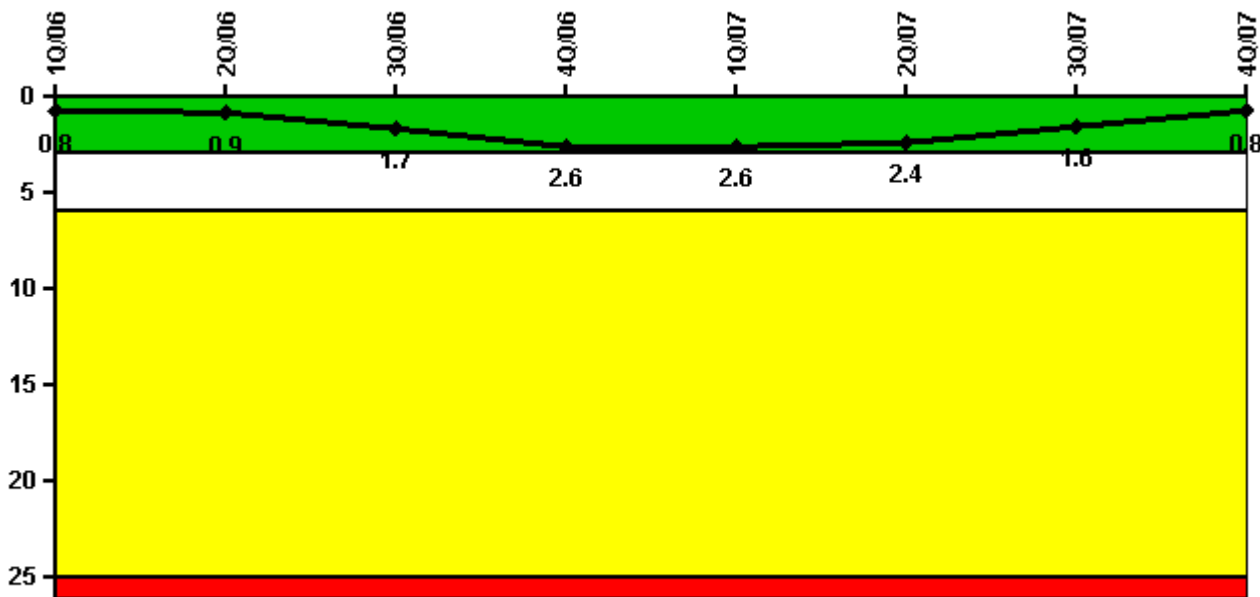


# Indian Point 2

## 4Q/2007 Performance Indicators

Licensee's General Comments: Changes to the Unit 2 normalization numbers for IDS and CCTV were provided to INPO for the 3Q07 and a comment provided in the 3Q07 PI report. Changes due to a new dry cask storage area within the PA. INPO revised the Unit 2 IDS and CCTV normalization numbers which resulted in a change report.

### Unplanned Scrams per 7000 Critical Hrs



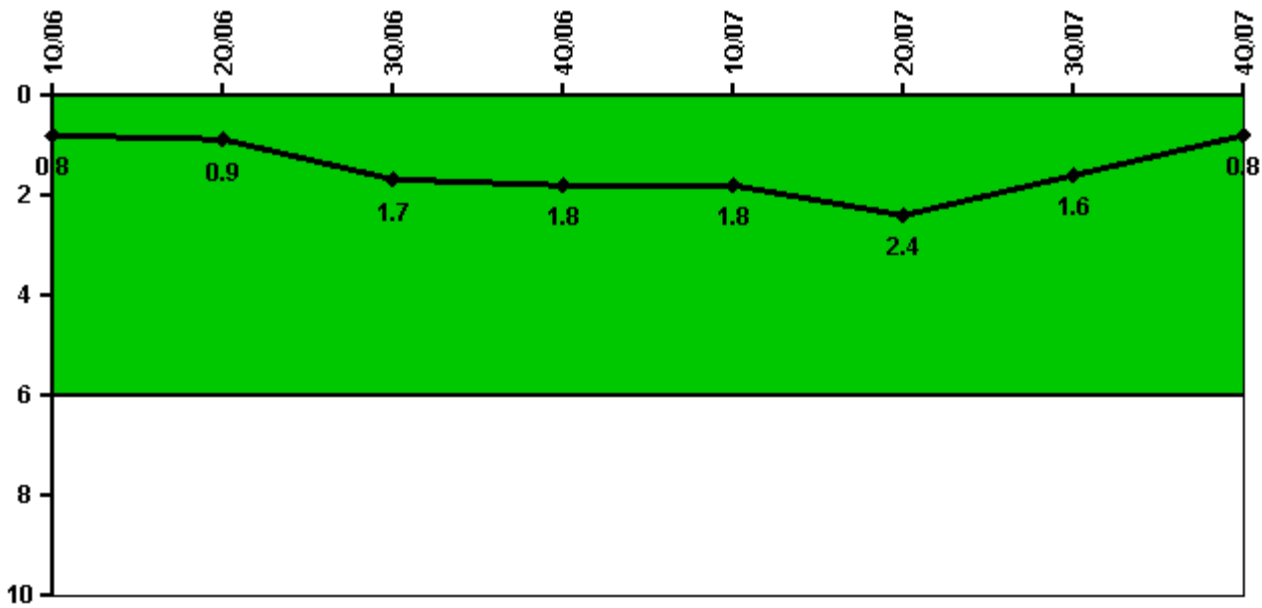
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned scrams	1.0	0	1.0	1.0	1.0	0	0	0
Critical hours	2148.6	1460.3	2187.3	2186.0	2144.9	2184.0	2208.0	2209.0
Indicator value	0.8	0.9	1.7	2.6	2.6	2.4	1.6	0.8

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



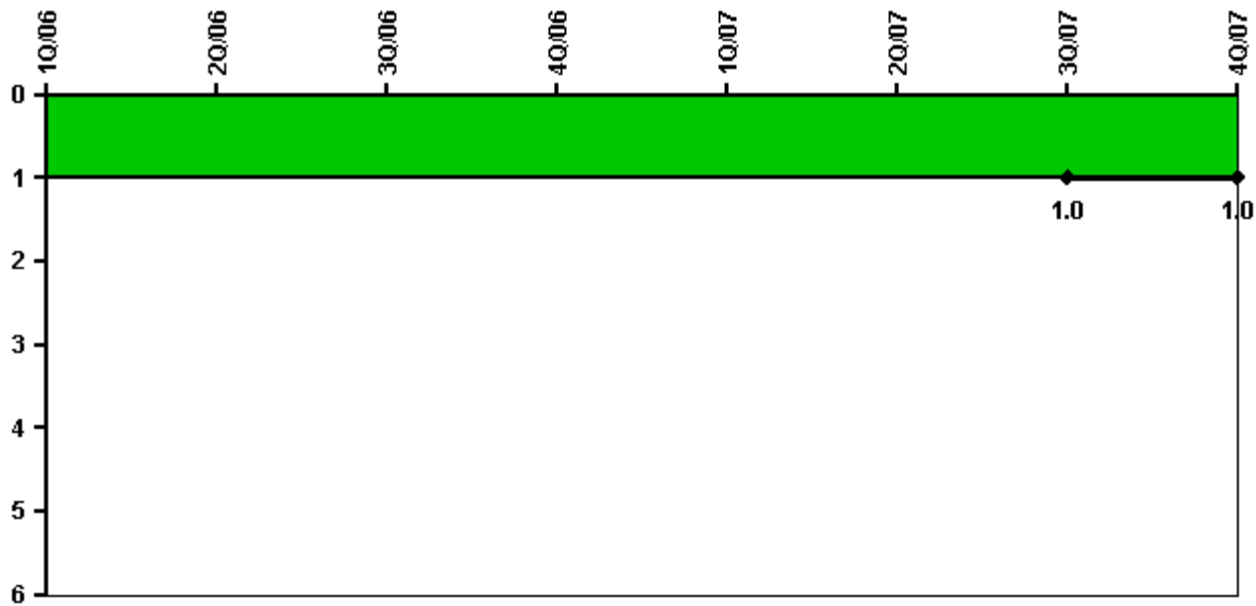
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned power changes	0	0	1.0	1.0	0	1.0	0	0
Critical hours	2148.6	1460.3	2187.3	2186.0	2144.9	2184.0	2208.0	2209.0
<b>Indicator value</b>	<b>0.8</b>	<b>0.9</b>	<b>1.7</b>	<b>1.8</b>	<b>1.8</b>	<b>2.4</b>	<b>1.6</b>	<b>0.8</b>

Licensee Comments: none

# Unplanned Scrams with Complications



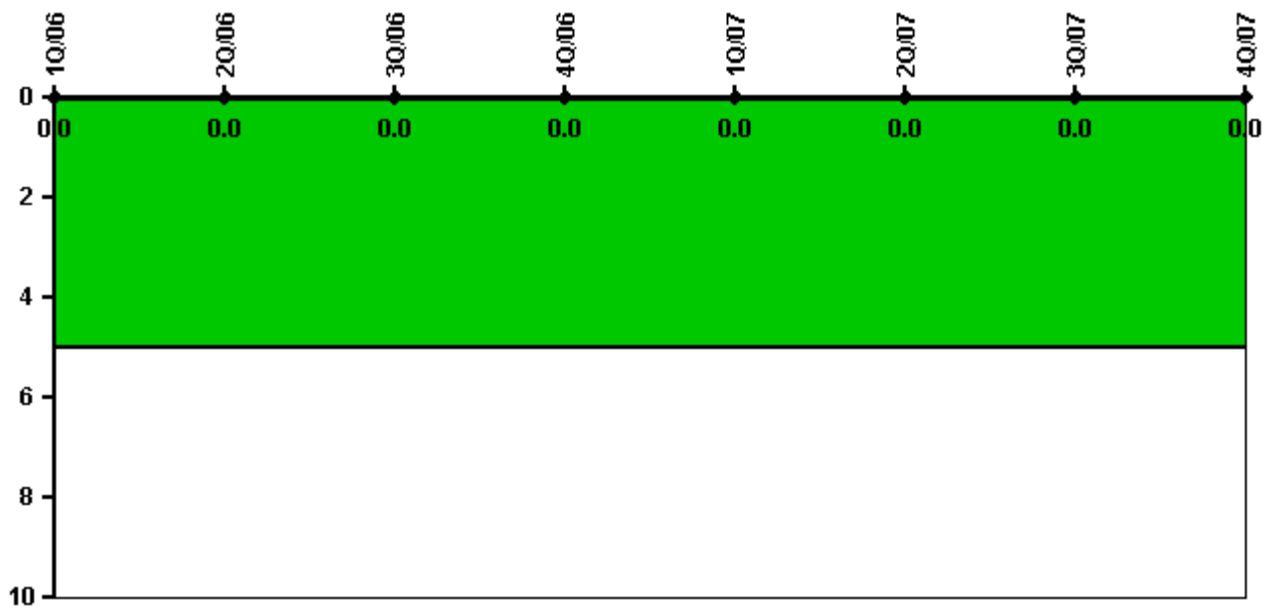
Thresholds: White > 1.0

## Notes

Unplanned Scrams with Complications	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Scrams with complications				0	1.0	0	0	0
<b>Indicator value</b>							<b>1.0</b>	<b>1.0</b>

Licensee Comments: none

# Safety System Functional Failures (PWR)



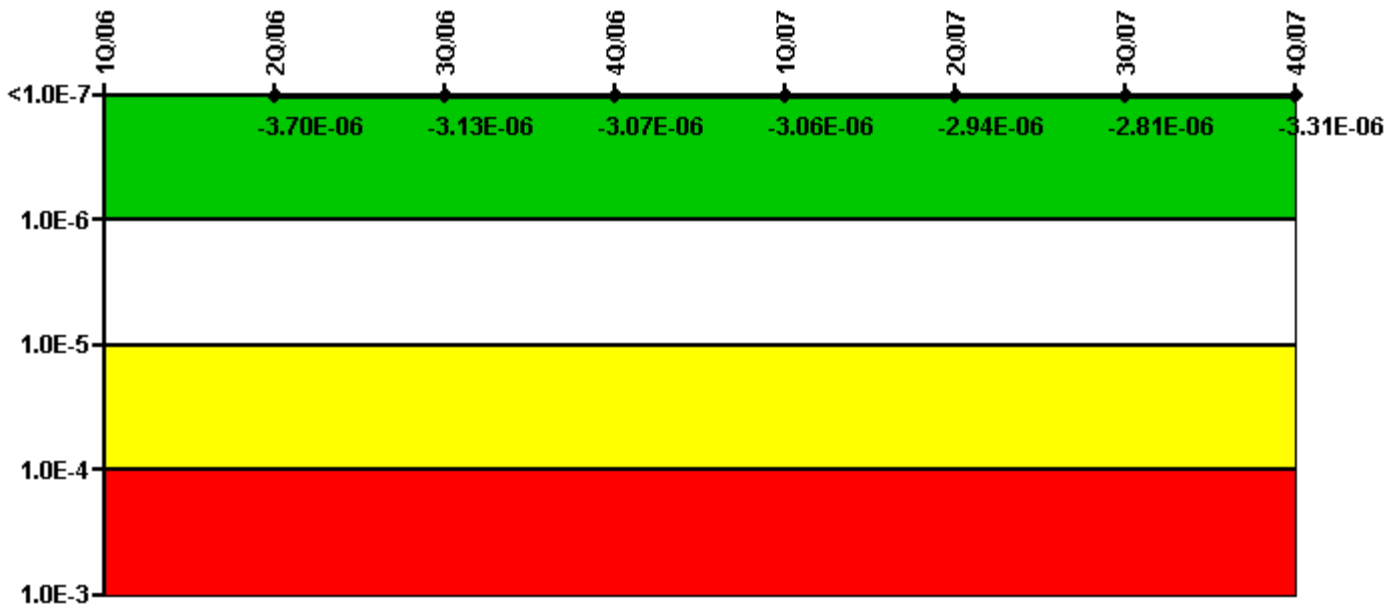
Thresholds: White > 5.0

## Notes

Safety System Functional Failures (PWR)	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
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 >  $1.00E-4$

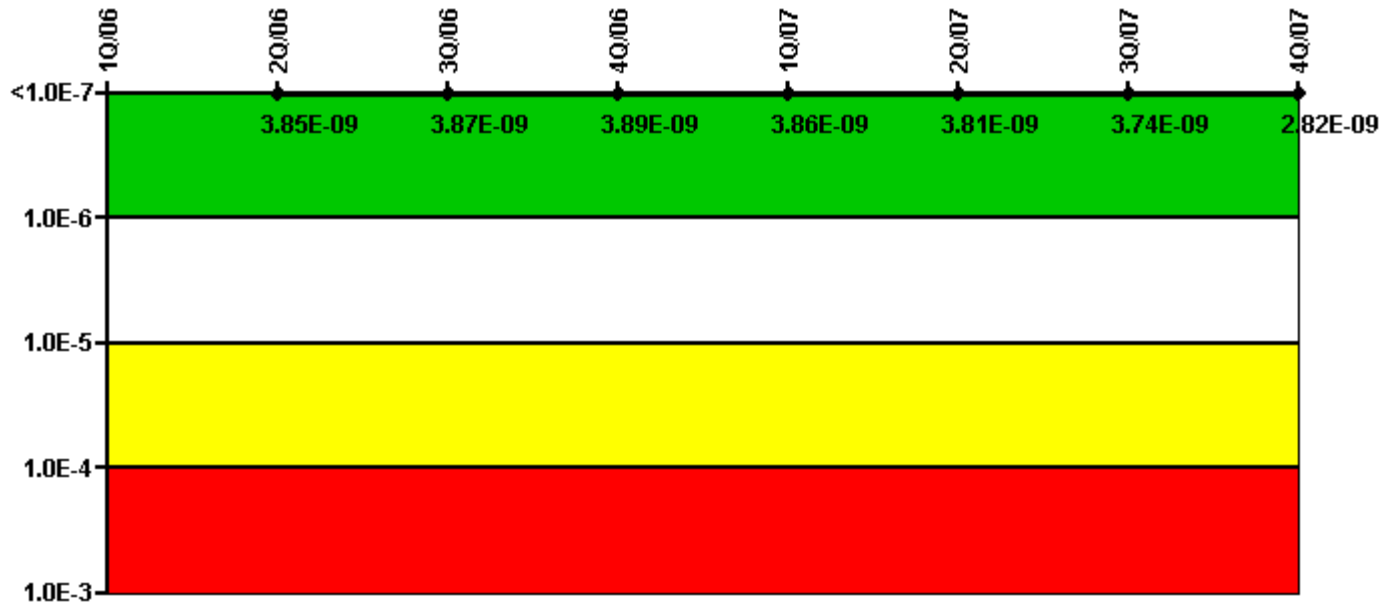
## Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI ( $\Delta$ CDF)		$9.80E-08$	$5.70E-07$	$6.30E-07$	$6.40E-07$	$7.60E-07$	$7.90E-07$	$4.90E-07$
URI ( $\Delta$ CDF)		$-3.80E-06$	$-3.70E-06$	$-3.70E-06$	$-3.70E-06$	$-3.70E-06$	$-3.60E-06$	$-3.80E-06$
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		$-3.70E-06$	$-3.13E-06$	$-3.07E-06$	$-3.06E-06$	$-2.94E-06$	$-2.81E-06$	$-3.31E-06$

Licensee Comments:

4Q/07: The Unit 2 CDE PRA basis for the EDGs required changes as a result of an update of the Unit 2 PRA Baseline Model of record.

# Mitigating Systems Performance Index, High Pressure Injection System



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

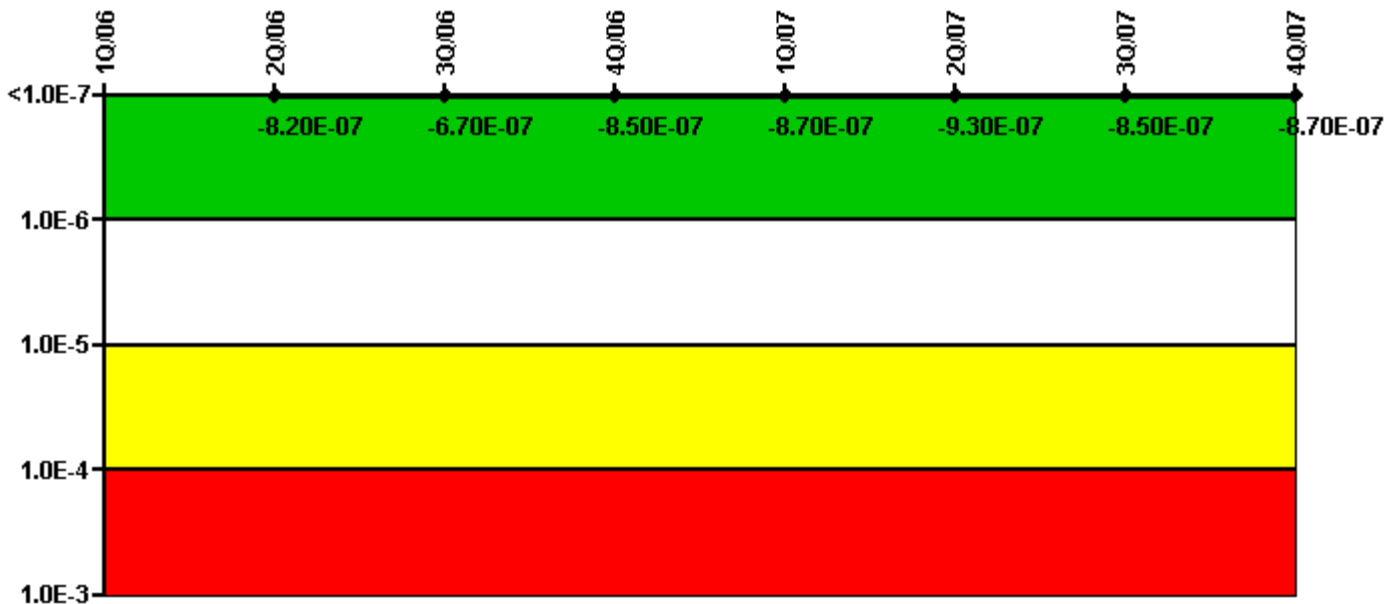
## Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI ( $\Delta$ CDF)		$2.50E-10$	$2.70E-10$	$2.90E-10$	$2.60E-10$	$2.10E-10$	$1.40E-10$	$1.70E-11$
URI ( $\Delta$ CDF)		$3.60E-09$	$3.60E-09$	$3.60E-09$	$3.60E-09$	$3.60E-09$	$3.60E-09$	$2.80E-09$
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		$3.85E-09$	$3.87E-09$	$3.89E-09$	$3.86E-09$	$3.81E-09$	$3.74E-09$	$2.82E-09$

Licensee Comments:

4Q/07: The Unit 2 CDE PRA basis for the HHSI System required changes as a result of an update of the Unit 2 PRA Baseline Model of record.

# Mitigating Systems Performance Index, Heat Removal System



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

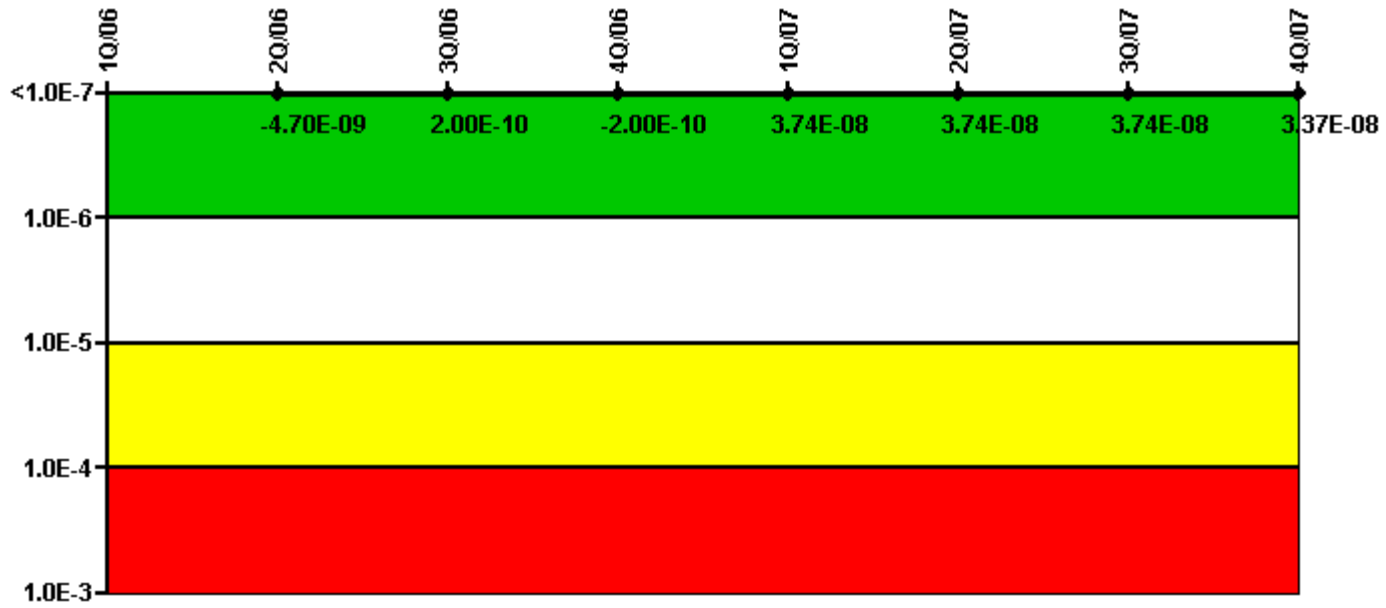
## Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI ( $\Delta$ CDF)		2.80E-07	4.30E-07	3.50E-07	3.30E-07	2.70E-07	2.50E-07	2.30E-07
URI ( $\Delta$ CDF)		-1.10E-06	-1.10E-06	-1.20E-06	-1.20E-06	-1.20E-06	-1.10E-06	-1.10E-06
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-8.20E-07	-6.70E-07	-8.50E-07	-8.70E-07	-9.30E-07	-8.50E-07	-8.70E-07

Licensee Comments:

4Q/07: The Unit 2 CDE PRA basis for the AFW System required changes as a result of an update of the Unit 2 PRA Baseline Model of record.

# Mitigating Systems Performance Index, Residual Heat Removal System



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

## Notes

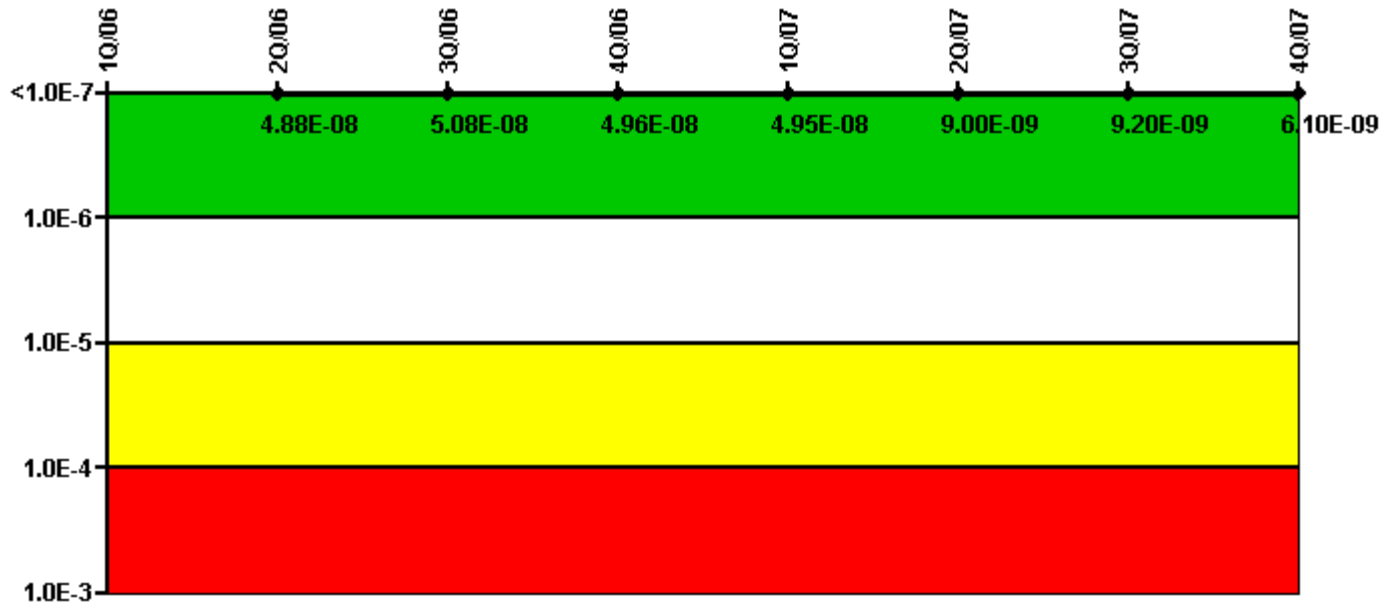
Mitigating Systems Performance Index, Residual Heat Removal System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI ( $\Delta$ CDF)		$-1.10E-08$	$-5.60E-09$	$-5.60E-09$	$-5.60E-09$	$-5.60E-09$	$-5.60E-09$	$-1.30E-09$
URI ( $\Delta$ CDF)		$6.30E-09$	$5.80E-09$	$5.40E-09$	$4.30E-08$	$4.30E-08$	$4.30E-08$	$3.50E-08$
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		$-4.70E-09$	$2.00E-10$	$-2.00E-10$	$3.74E-08$	$3.74E-08$	$3.74E-08$	$3.37E-08$

Licensee Comments:

4Q/07: The Unit 2 CDE PRA basis for the RHR System required changes as a result of an update of the Unit 2 PRA Baseline Model of record.



# Mitigating Systems Performance Index, Cooling Water Systems



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

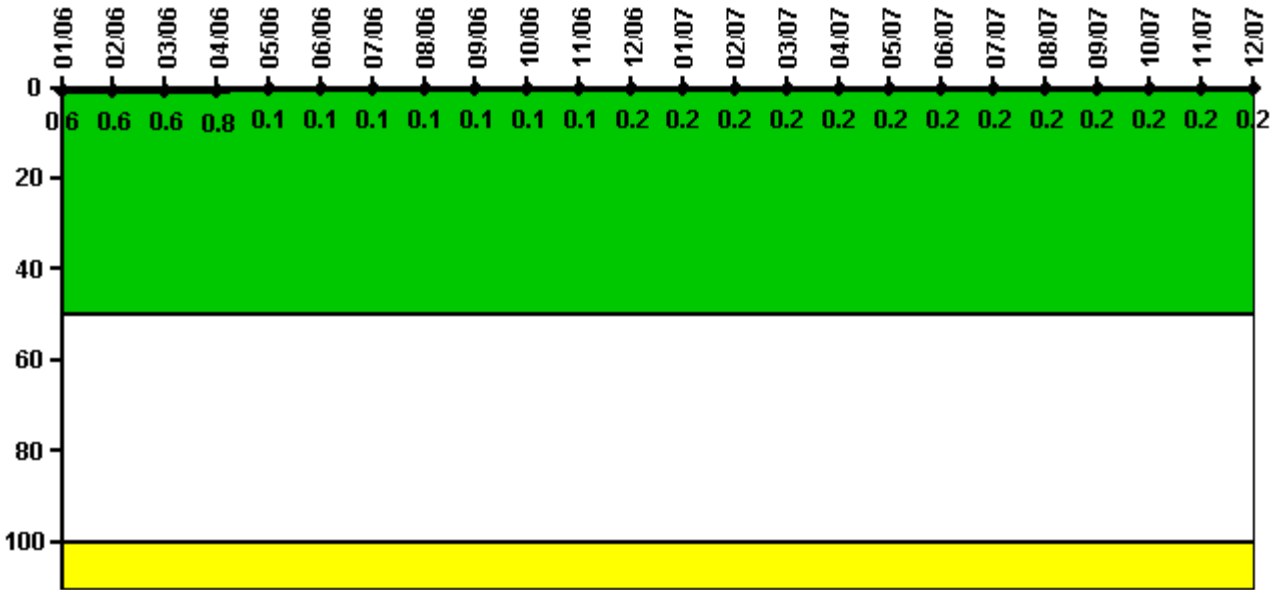
## Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (ΔCDF)		1.80E-09	2.80E-09	2.60E-09	2.50E-09	-1.00E-08	-9.80E-09	-7.90E-09
URI (ΔCDF)		4.70E-08	4.80E-08	4.70E-08	4.70E-08	1.90E-08	1.90E-08	1.40E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		4.88E-08	5.08E-08	4.96E-08	4.95E-08	9.00E-09	9.20E-09	6.10E-09

Licensee Comments:

4Q/07: The Unit 2 CDE PRA basis for the CCW System and SW System required changes as a result of an update of the Unit 2 PRA Baseline Model of record.

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

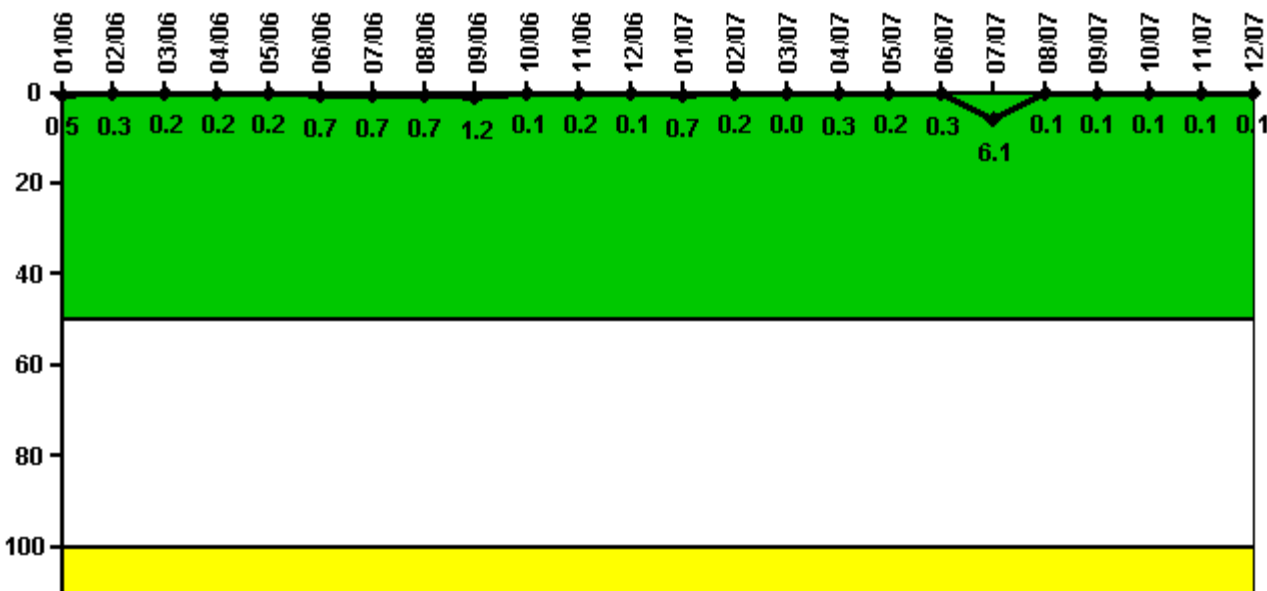
Reactor Coolant System Activity	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum activity	0.005620	0.005750	0.005910	0.008170	0.001100	0.001260	0.001360	0.001380	0.001310	0.001410	0.001480	0.001600
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.6	0.6	0.6	0.8	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2

Reactor Coolant System Activity	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum activity	0.001540	0.001580	0.001650	0.001810	0.001740	0.001660	0.001840	0.001850	0.001930	0.002050	0.002020	0.002040
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	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Licensee Comments: none

# Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

## Notes

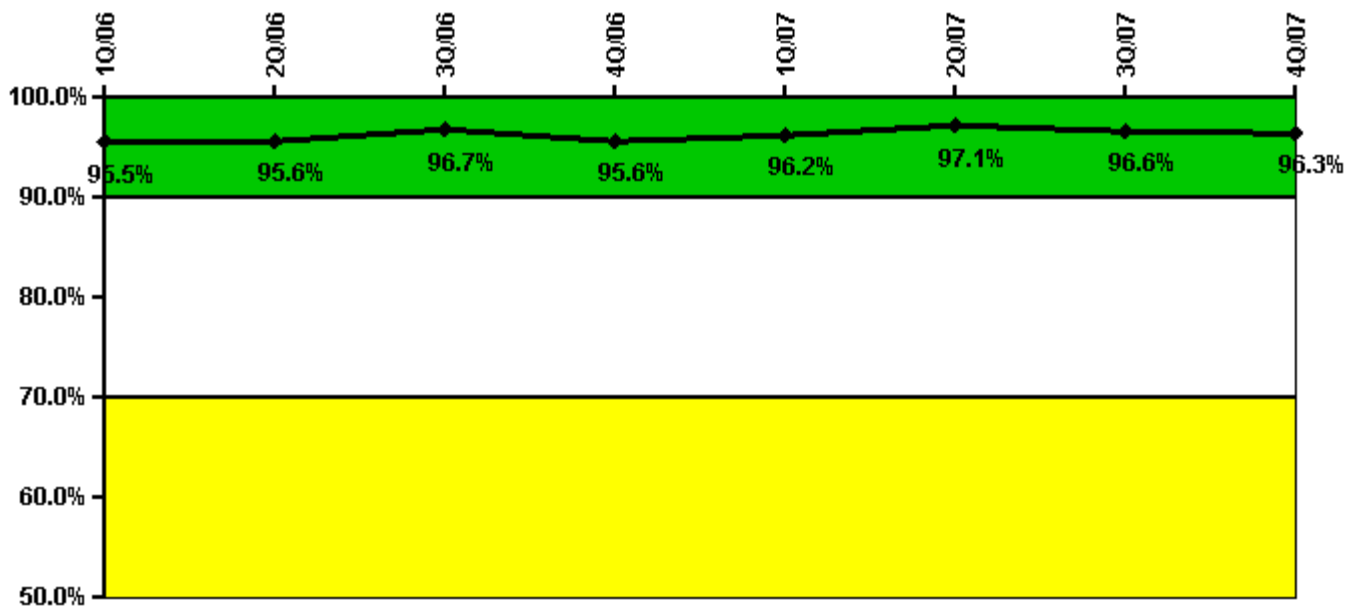
Reactor Coolant System Leakage	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum leakage	0.054	0.030	0.024	0.023	0.022	0.065	0.069	0.069	0.120	0.011	0.020	0.010
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.5	0.3	0.2	0.2	0.2	0.7	0.7	0.7	1.2	0.1	0.2	0.1

Reactor Coolant System Leakage	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07
Maximum leakage	0.070	0.020	0	0.030	0.020	0.030	0.610	0.010	0.010	0.010	0.010	0.010
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	0.7	0.2	0	0.3	0.2	0.3	6.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

## Drill/Exercise Performance



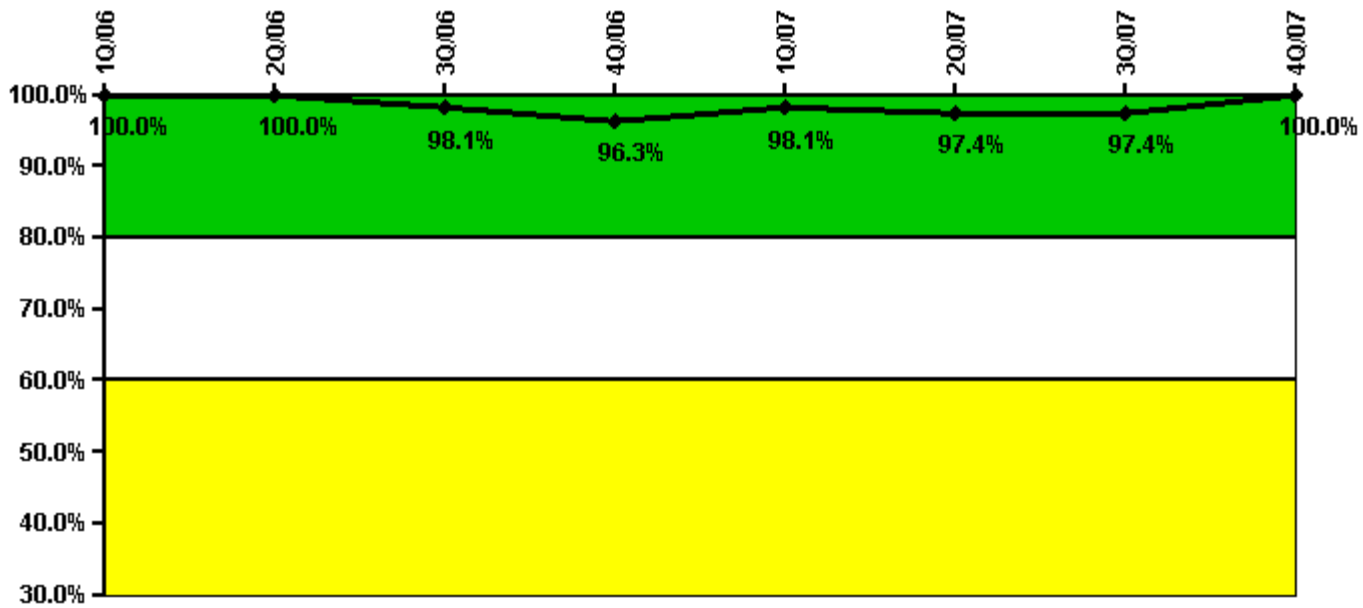
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful opportunities	37.0	30.0	73.0	11.0	19.0	57.0	72.0	66.0
Total opportunities	38.0	30.0	73.0	14.0	20.0	58.0	75.0	71.0
<b>Indicator value</b>	<b>95.5%</b>	<b>95.6%</b>	<b>96.7%</b>	<b>95.6%</b>	<b>96.2%</b>	<b>97.1%</b>	<b>96.6%</b>	<b>96.3%</b>

Licensee Comments: none

# ERO Drill Participation



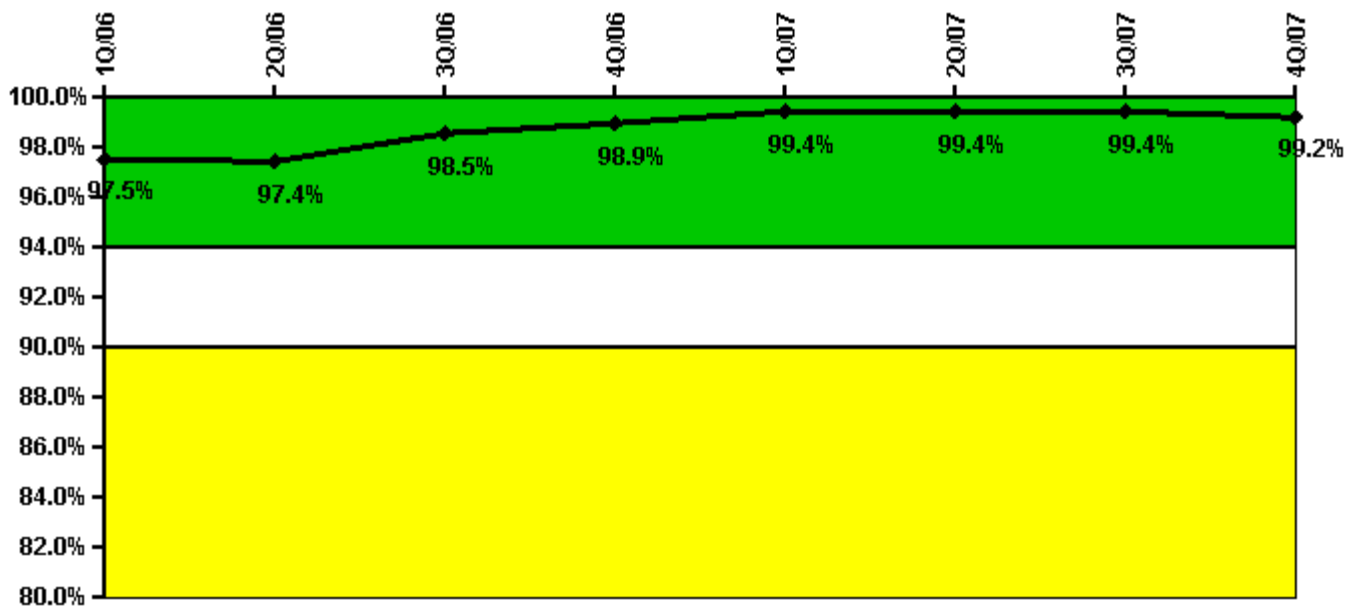
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Participating Key personnel	103.0	103.0	104.0	104.0	106.0	114.0	113.0	111.0
Total Key personnel	103.0	103.0	106.0	108.0	108.0	117.0	116.0	111.0
<b>Indicator value</b>	<b>100.0%</b>	<b>100.0%</b>	<b>98.1%</b>	<b>96.3%</b>	<b>98.1%</b>	<b>97.4%</b>	<b>97.4%</b>	<b>100.0%</b>

Licensee Comments: none

# Alert & Notification System



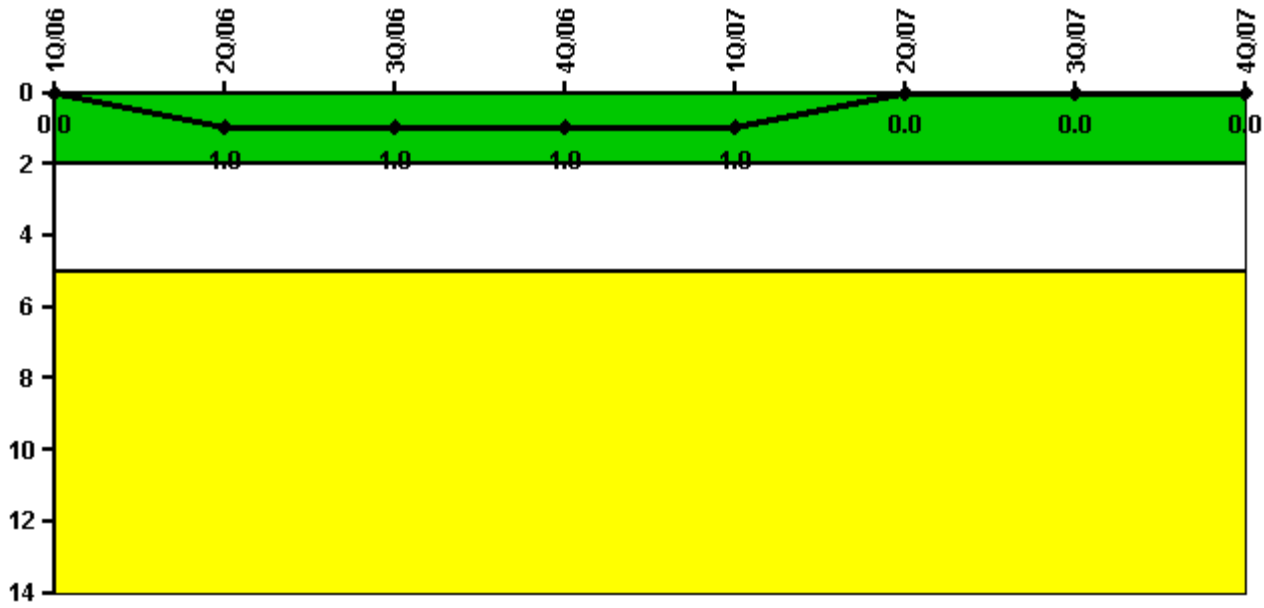
**Thresholds: White < 94.0% Yellow < 90.0%**

## Notes

Alert & Notification System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful siren-tests	984	1083	882	885	728	965	536	618
Total sirens-tests	1010	1092	888	888	732	974	540	625
<b>Indicator value</b>	<b>97.5%</b>	<b>97.4%</b>	<b>98.5%</b>	<b>98.9%</b>	<b>99.4%</b>	<b>99.4%</b>	<b>99.4%</b>	<b>99.2%</b>

Licensee Comments: none

# Occupational Exposure Control Effectiveness



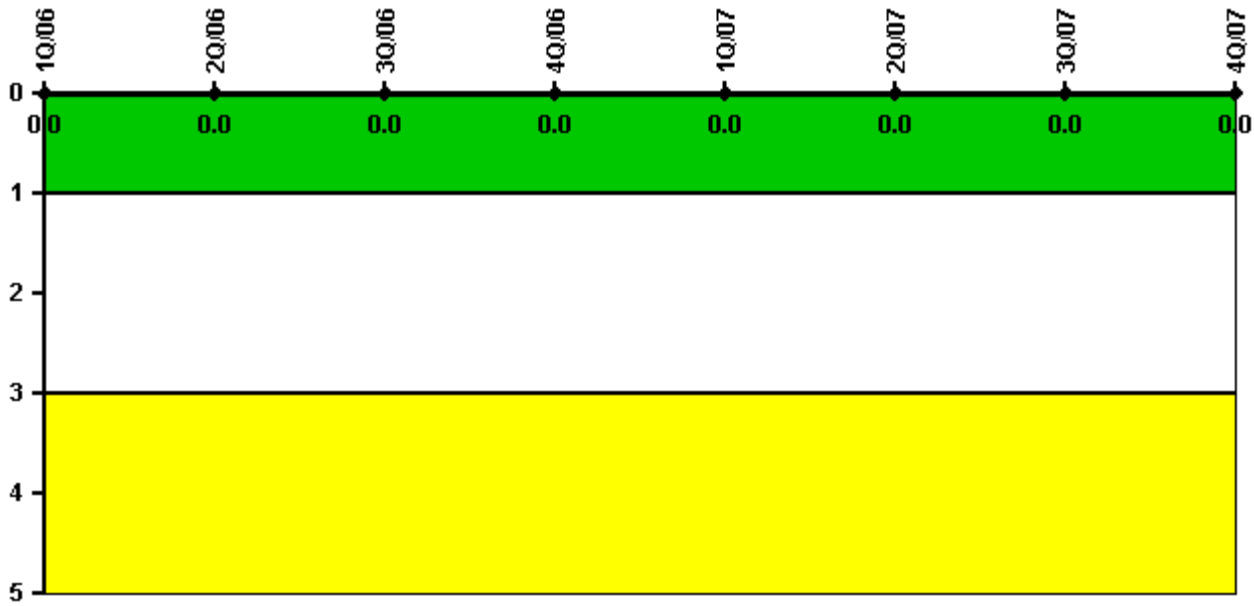
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
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	1	0	0	0	0	0	0
<b>Indicator value</b>	<b>0</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	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
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: February 4, 2008