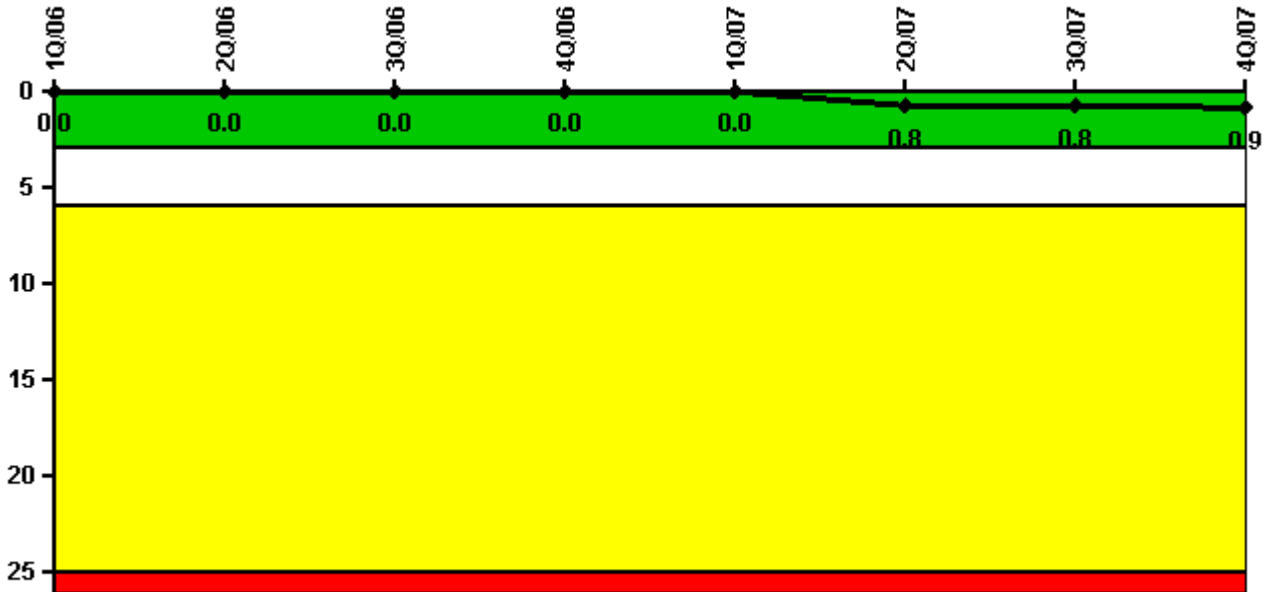


# San Onofre 2

## 4Q/2007 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

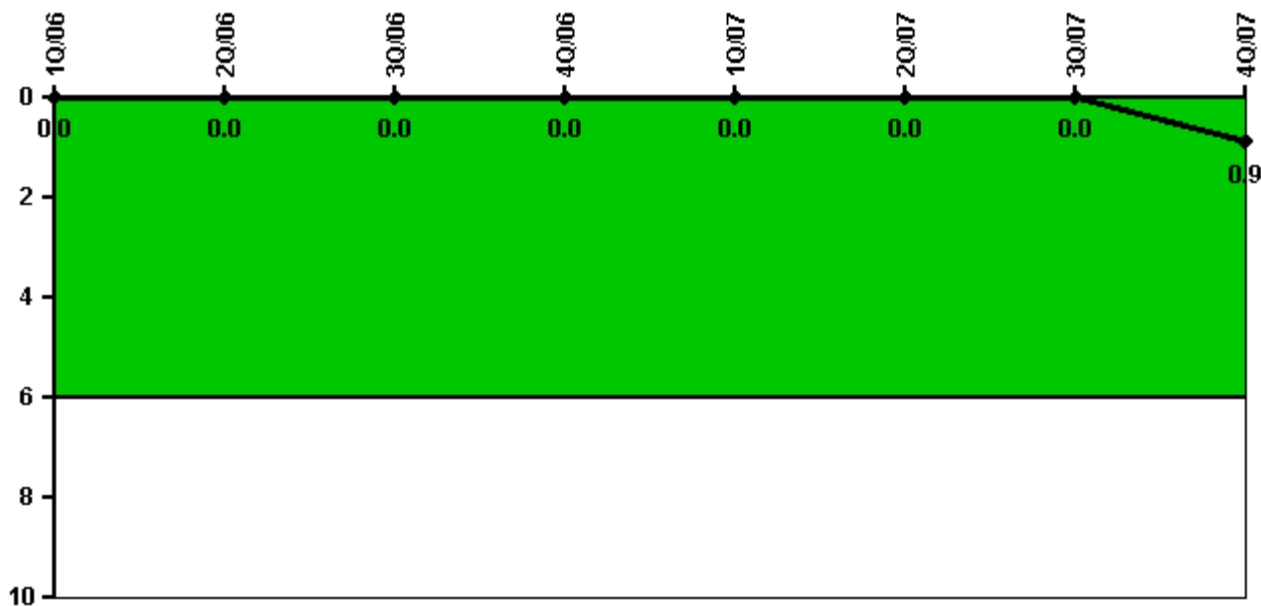
### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	59.3	1880.1	2208.0	2209.0	2159.0	1987.2	2208.0	1234.0
Indicator value	0	0	0	0	0	0.8	0.8	0.9

Licensee Comments: none

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## Unplanned Power Changes per 7000 Critical Hrs



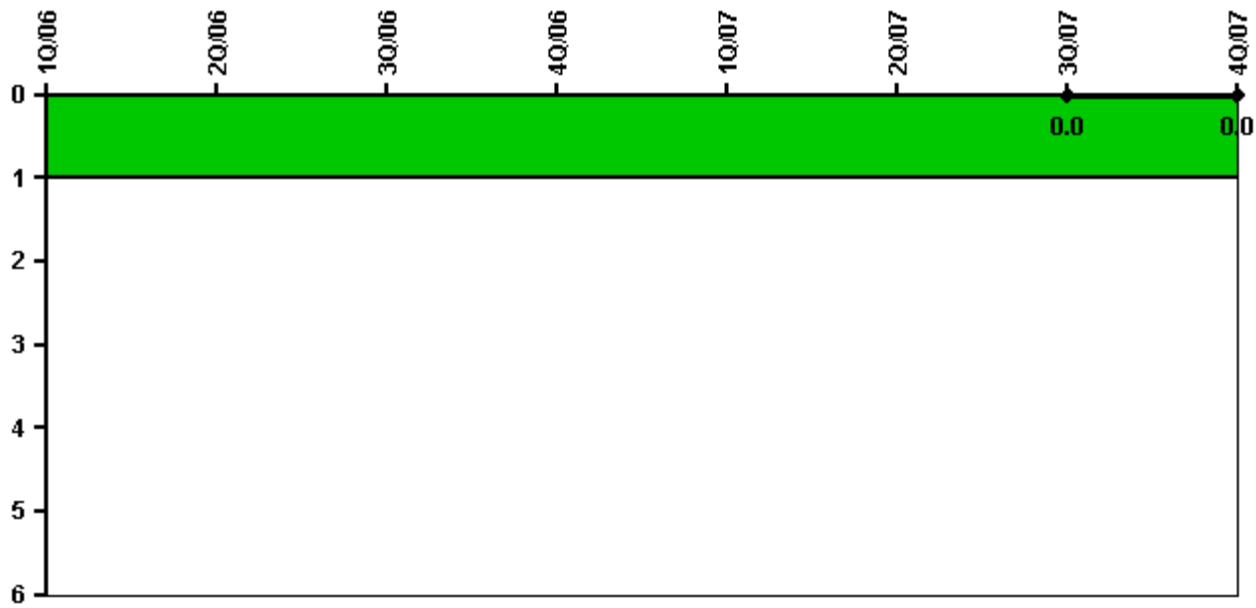
Thresholds: White > 6.0

### 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	0	0	0	0	0	1.0
Critical hours	59.3	1880.1	2208.0	2209.0	2159.0	1987.2	2208.0	1234.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.9</b>

Licensee Comments: none

# Unplanned Scrams with Complications



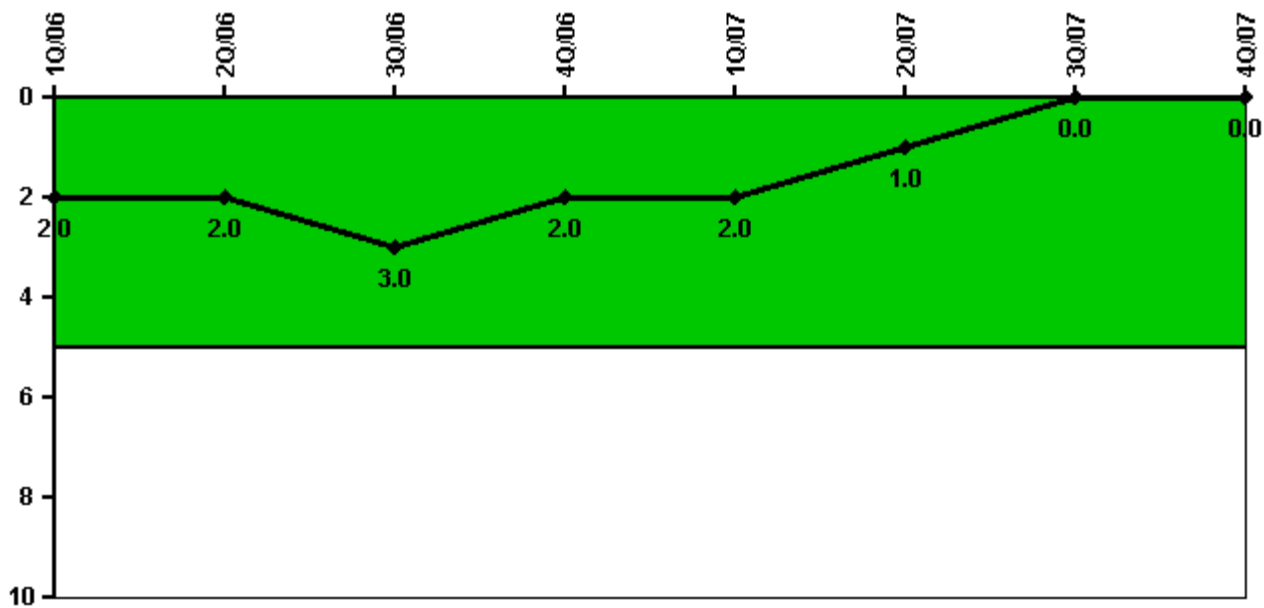
Thresholds: White > 1.0

## 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	0	0	0	0
<b>Indicator value</b>							<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

## Safety System Functional Failures (PWR)



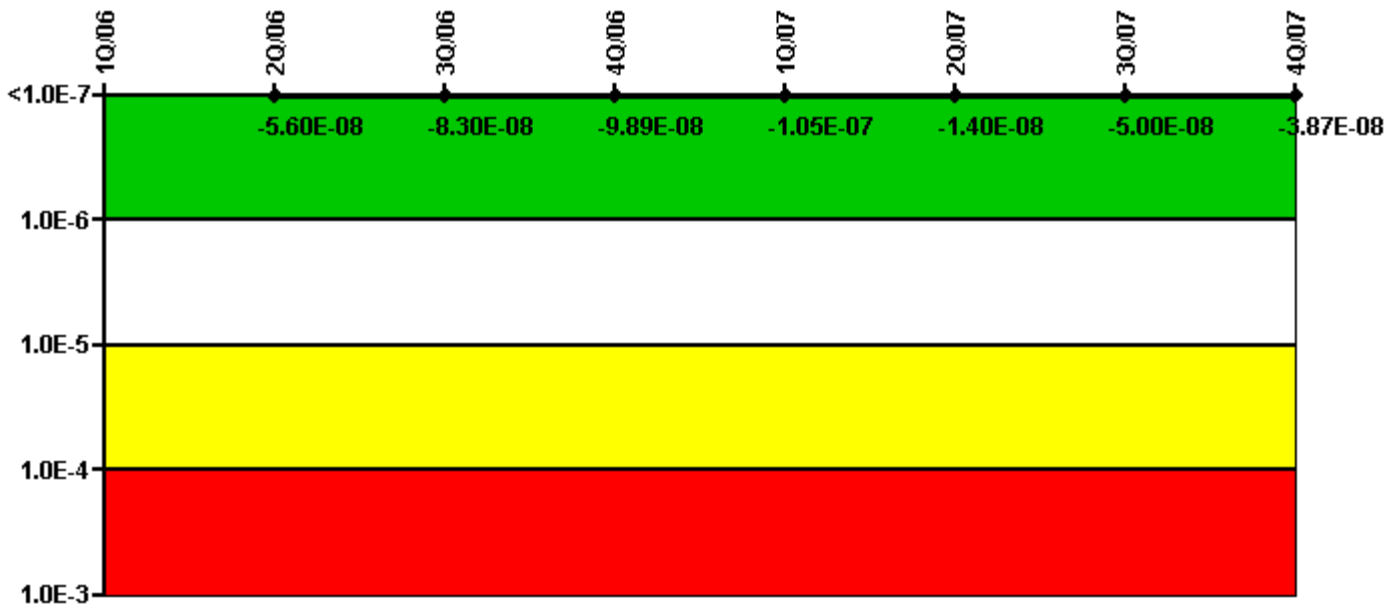
Thresholds: White > 5.0

### 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	1	1	0	0	0	0	0
Indicator value	2	2	3	2	2	1	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

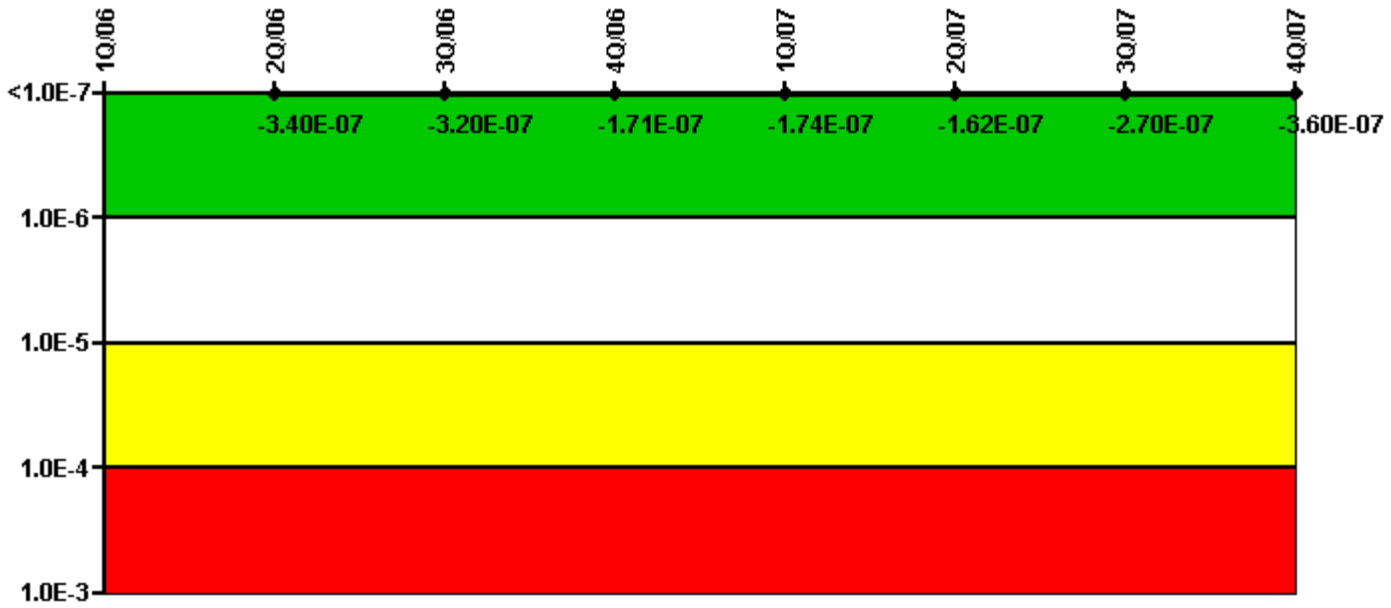
## Notes

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)		9.40E-08	1.40E-08	1.10E-09	-7.60E-09	2.80E-08	-8.00E-09	1.30E-09
URI ( $\Delta$ CDF)		-1.50E-07	-9.70E-08	-1.00E-07	-9.70E-08	-4.20E-08	-4.20E-08	-4.00E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		-5.60E-08	-8.30E-08	-9.89E-08	-1.05E-07	-1.40E-08	-5.00E-08	-3.87E-08

Licensee Comments:

4Q/07: Changed PRA Parameter(s).

# Mitigating Systems Performance Index, High Pressure Injection System



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

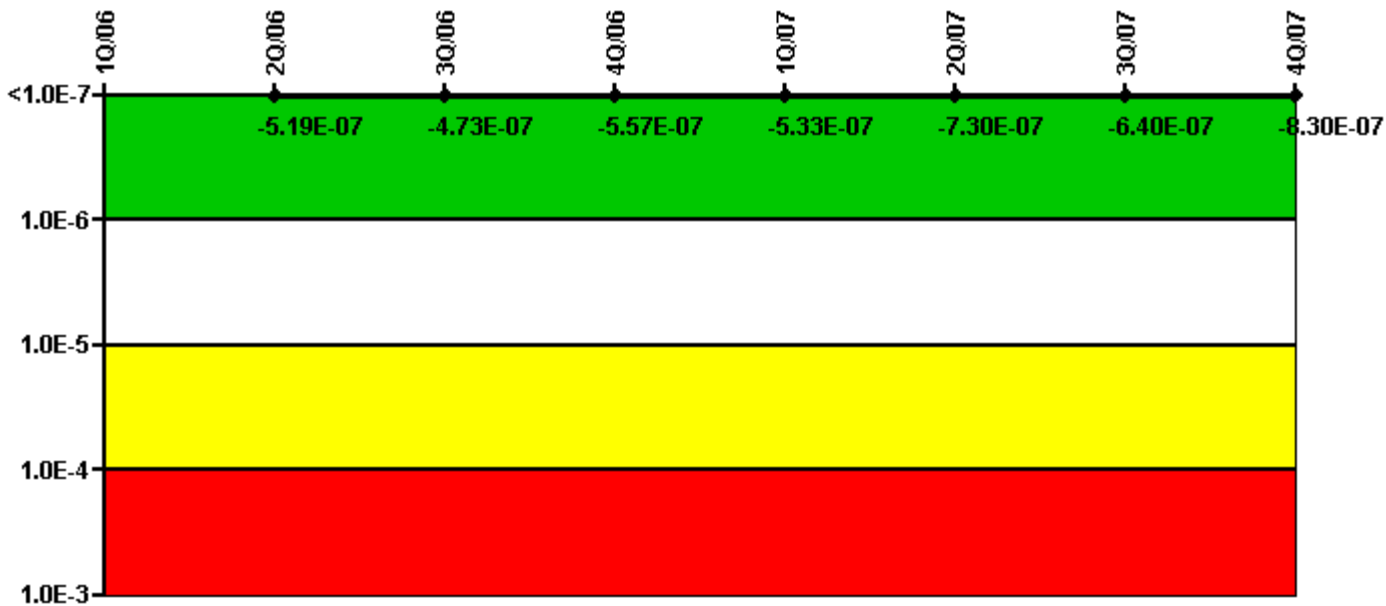
## Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI ( $\Delta$ CDF)		$-1.60E-07$	$-1.30E-07$	$-7.10E-08$	$-7.40E-08$	$-6.20E-08$	$-1.70E-07$	$-2.30E-07$
URI ( $\Delta$ CDF)		$-1.80E-07$	$-1.90E-07$	$-1.00E-07$	$-1.00E-07$	$-1.00E-07$	$-1.00E-07$	$-1.30E-07$
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		$-3.40E-07$	$-3.20E-07$	$-1.71E-07$	$-1.74E-07$	$-1.62E-07$	$-2.70E-07$	$-3.60E-07$

Licensee Comments:

4Q/07: Changed PRA Parameter(s).

# Mitigating Systems Performance Index, Heat Removal System



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

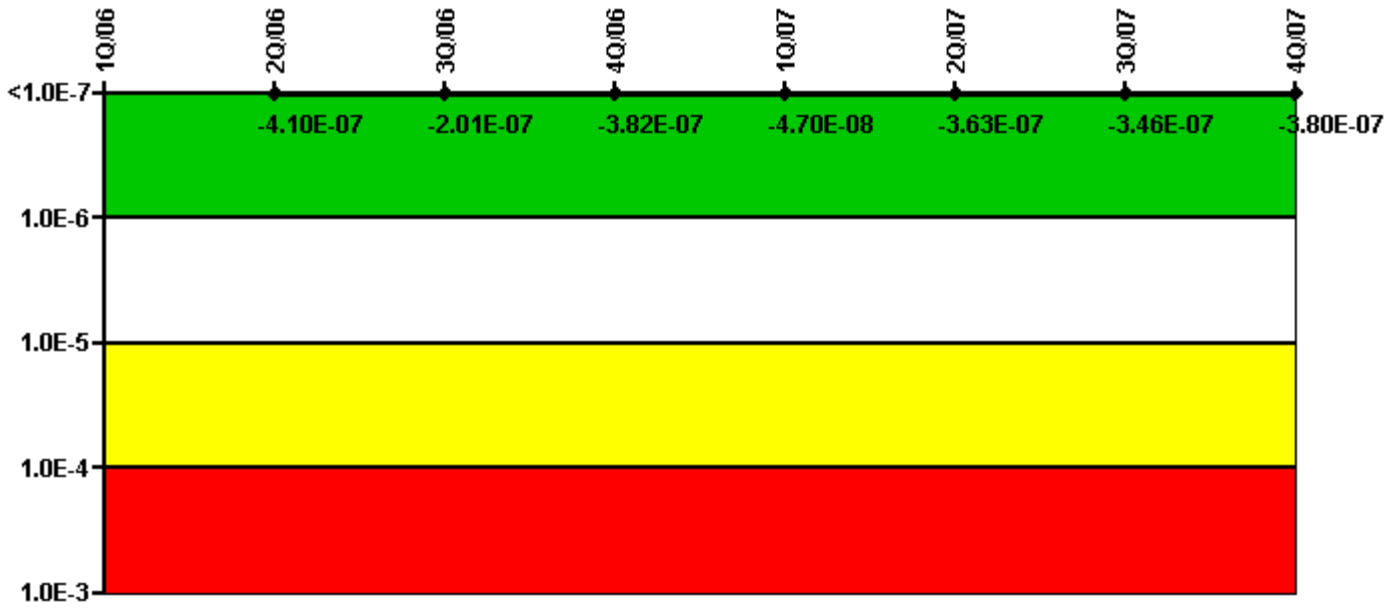
## Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI ( $\Delta$ CDF)		$5.10E-08$	$7.00E-09$	$1.30E-08$	$2.70E-08$	$-2.20E-07$	$-1.30E-07$	$-2.10E-07$
URI ( $\Delta$ CDF)		$-5.70E-07$	$-4.80E-07$	$-5.70E-07$	$-5.60E-07$	$-5.10E-07$	$-5.10E-07$	$-6.20E-07$
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		$-5.19E-07$	$-4.73E-07$	$-5.57E-07$	$-5.33E-07$	$-7.30E-07$	$-6.40E-07$	$-8.30E-07$

Licensee Comments:

4Q/07: 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

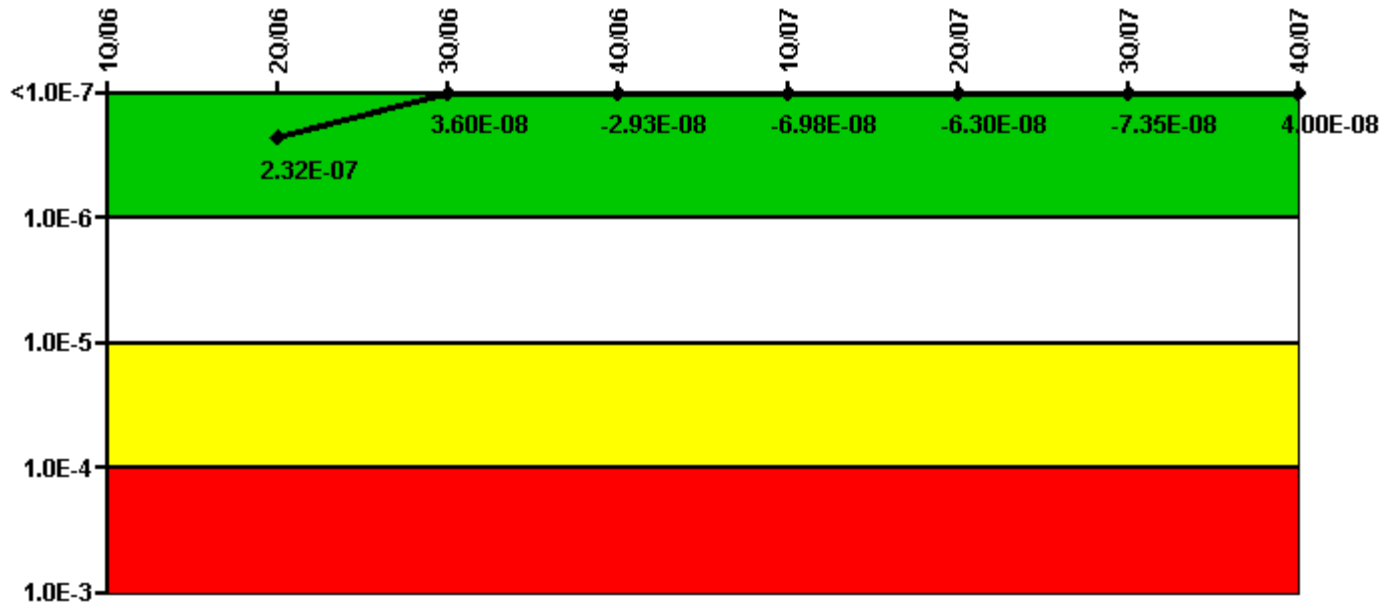
Mitigating Systems Performance Index, Residual Heat Removal System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI ( $\Delta$ CDF)		$-2.80E-07$	$-7.10E-08$	$-3.00E-07$	$3.60E-08$	$-2.80E-07$	$-3.00E-07$	$-2.80E-07$
URI ( $\Delta$ CDF)		$-1.30E-07$	$-1.30E-07$	$-8.20E-08$	$-8.30E-08$	$-8.30E-08$	$-4.60E-08$	$-1.00E-07$
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		$-4.10E-07$	$-2.01E-07$	$-3.82E-07$	$-4.70E-08$	$-3.63E-07$	$-3.46E-07$	$-3.80E-07$

Licensee Comments:

4Q/07: Changed PRA Parameter(s).



# Mitigating Systems Performance Index, Cooling Water Systems



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

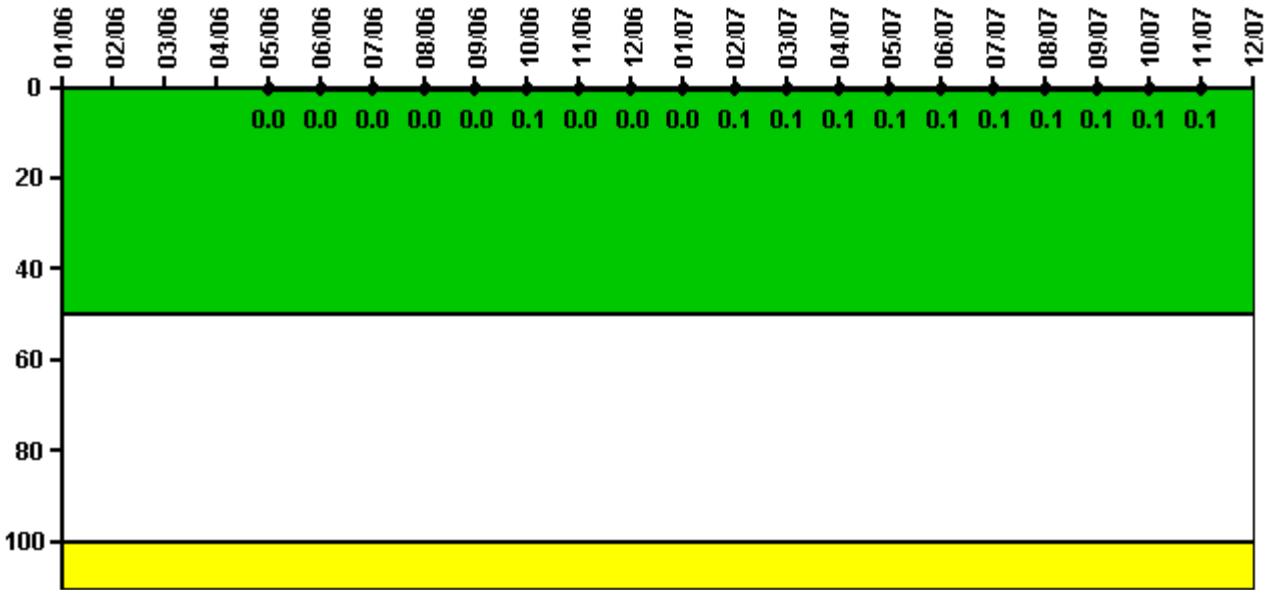
## Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
UAI (ΔCDF)		2.90E-07	9.60E-08	3.70E-09	9.20E-09	1.60E-08	6.50E-09	1.10E-07
URI (ΔCDF)		-5.80E-08	-6.00E-08	-3.30E-08	-7.90E-08	-7.90E-08	-8.00E-08	-7.00E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		2.32E-07	3.60E-08	-2.93E-08	-6.98E-08	-6.30E-08	-7.35E-08	4.00E-08

Licensee Comments:

4Q/07: Changed PRA Parameter(s).

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

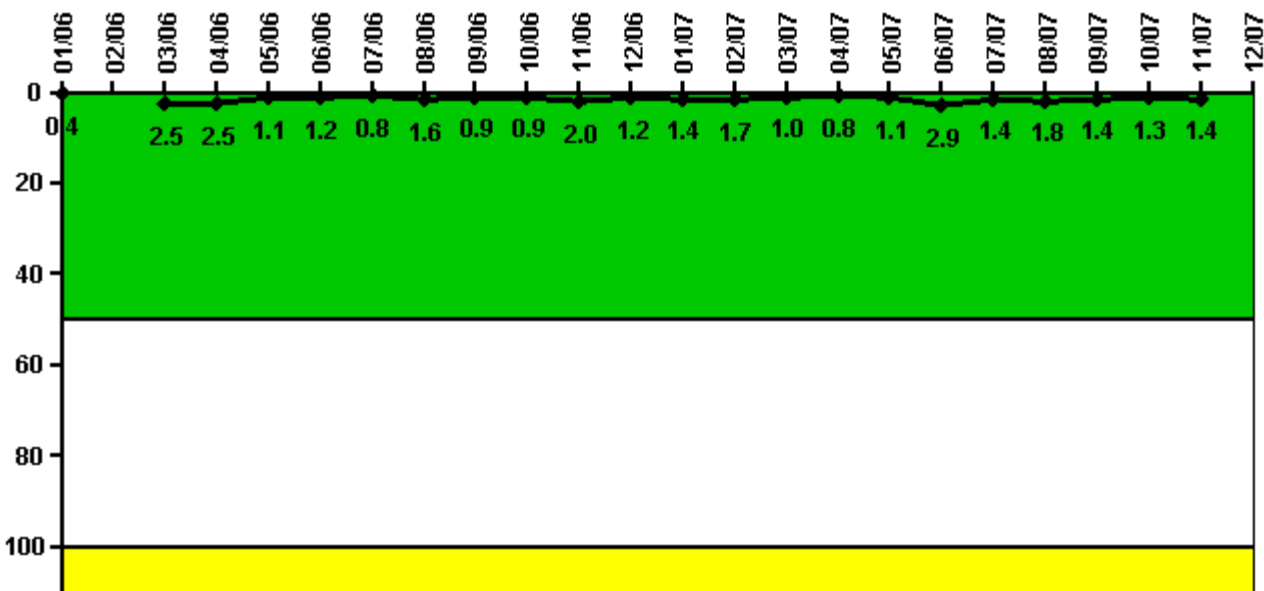
Reactor Coolant System Activity	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum activity	N/A	N/A	N/A	N/A	0.000207	0.000335	0.000333	0.000261	0.000409	0.000519	0.000449	0.000454
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	N/A	N/A	N/A	0	0	0	0	0	0.1	0	0

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	0.000446	0.001120	0.000620	0.000564	0.000901	0.000532	0.000536	0.000708	0.000686	0.000634	0.000632	N/A
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N/A

Licensee Comments: none

# Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

## Notes

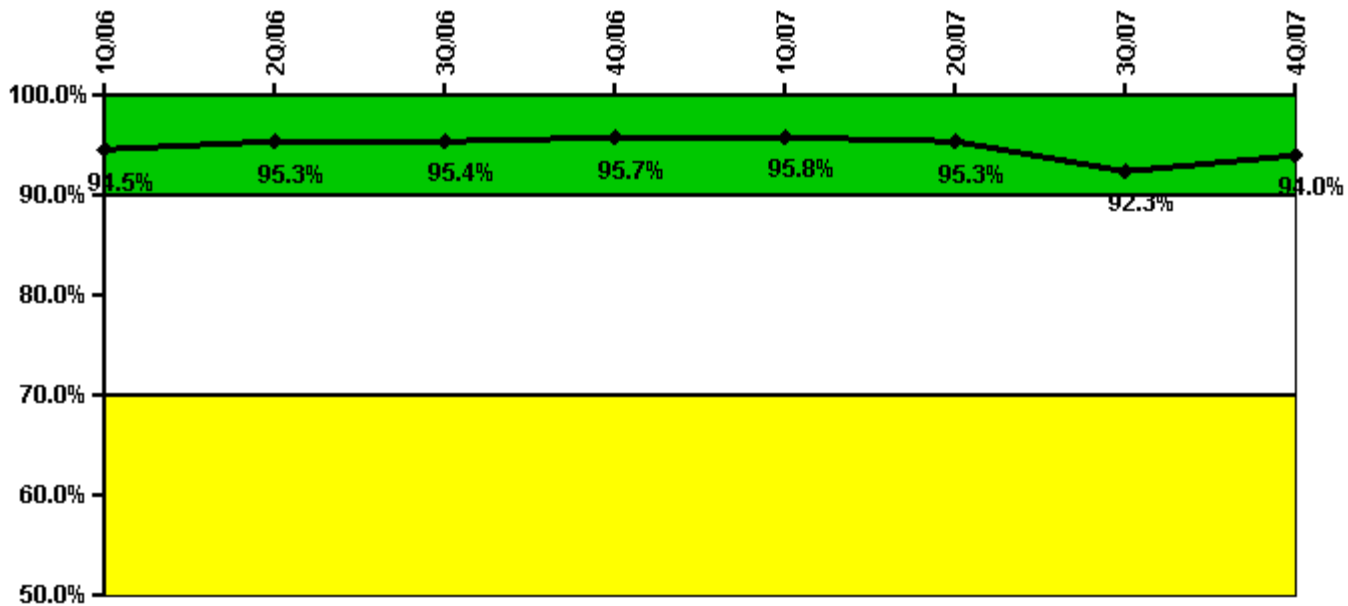
Reactor Coolant System Leakage	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06	10/06	11/06	12/06
Maximum leakage	0.040	N/A	0.250	0.250	0.110	0.120	0.080	0.160	0.090	0.090	0.200	0.120
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.4	N/A	2.5	2.5	1.1	1.2	0.8	1.6	0.9	0.9	2.0	1.2

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	0.140	0.170	0.100	0.080	0.110	0.290	0.140	0.180	0.140	0.130	0.140	N/A
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	1.4	1.7	1.0	0.8	1.1	2.9	1.4	1.8	1.4	1.3	1.4	N/A

Licensee Comments: none

## Drill/Exercise Performance



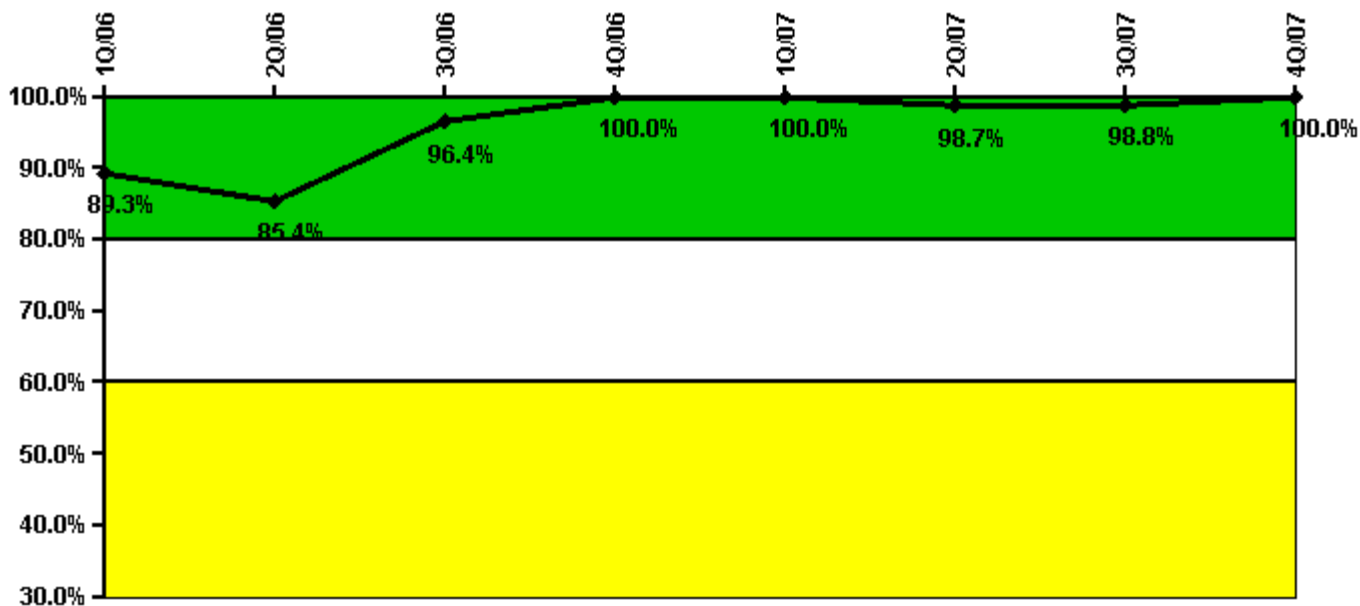
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful opportunities	0	6.0	44.0	51.0	12.0	8.0	51.0	78.0
Total opportunities	0	7.0	46.0	53.0	13.0	9.0	59.0	79.0
<b>Indicator value</b>	<b>94.5%</b>	<b>95.3%</b>	<b>95.4%</b>	<b>95.7%</b>	<b>95.8%</b>	<b>95.3%</b>	<b>92.3%</b>	<b>94.0%</b>

Licensee Comments: none

# ERO Drill Participation



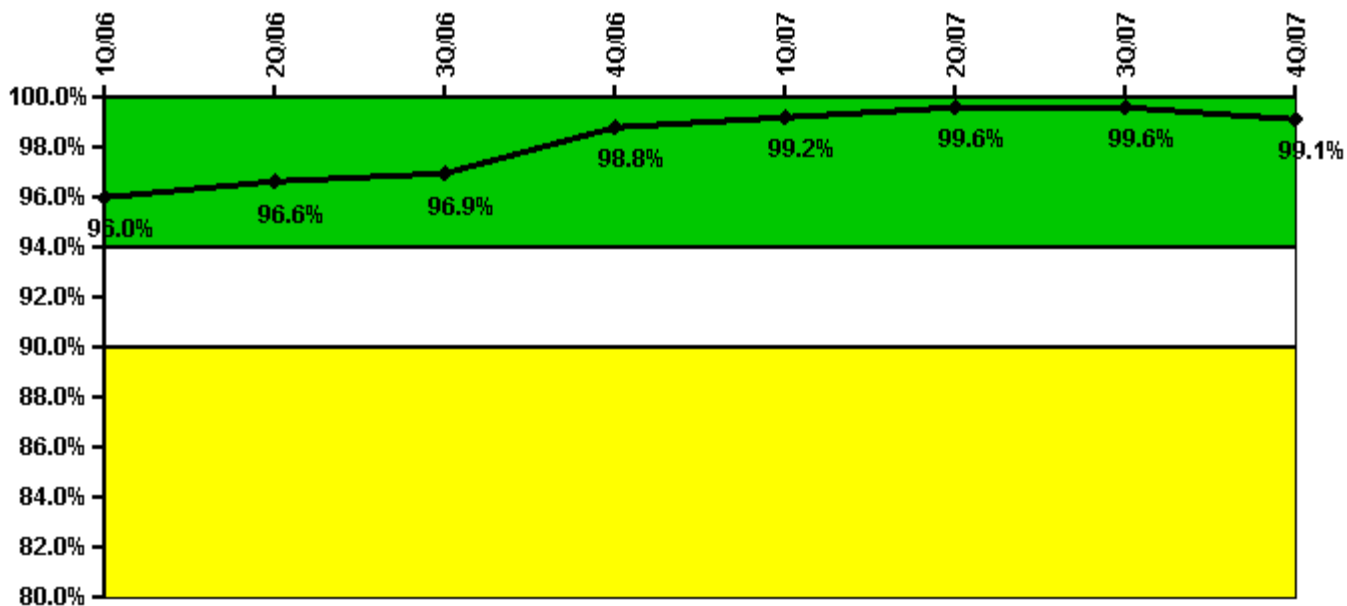
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Participating Key personnel	75.0	70.0	80.0	80.0	80.0	78.0	82.0	76.0
Total Key personnel	84.0	82.0	83.0	80.0	80.0	79.0	83.0	76.0
<b>Indicator value</b>	<b>89.3%</b>	<b>85.4%</b>	<b>96.4%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>98.7%</b>	<b>98.8%</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	379	384	342	493	353	407	407	451
Total sirens-tests	390	391	343	494	357	408	408	459
Indicator value	96.0%	96.6%	96.9%	98.8%	99.2%	99.6%	99.6%	99.1%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



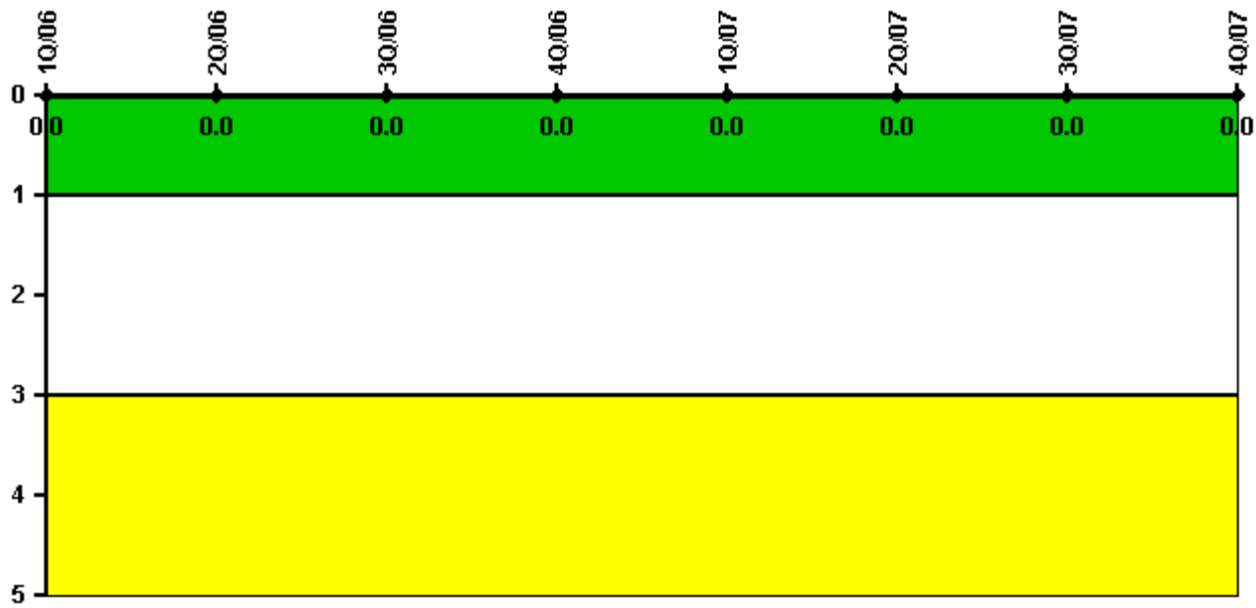
Thresholds: White > 2.0 Yellow > 5.0

## 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	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</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