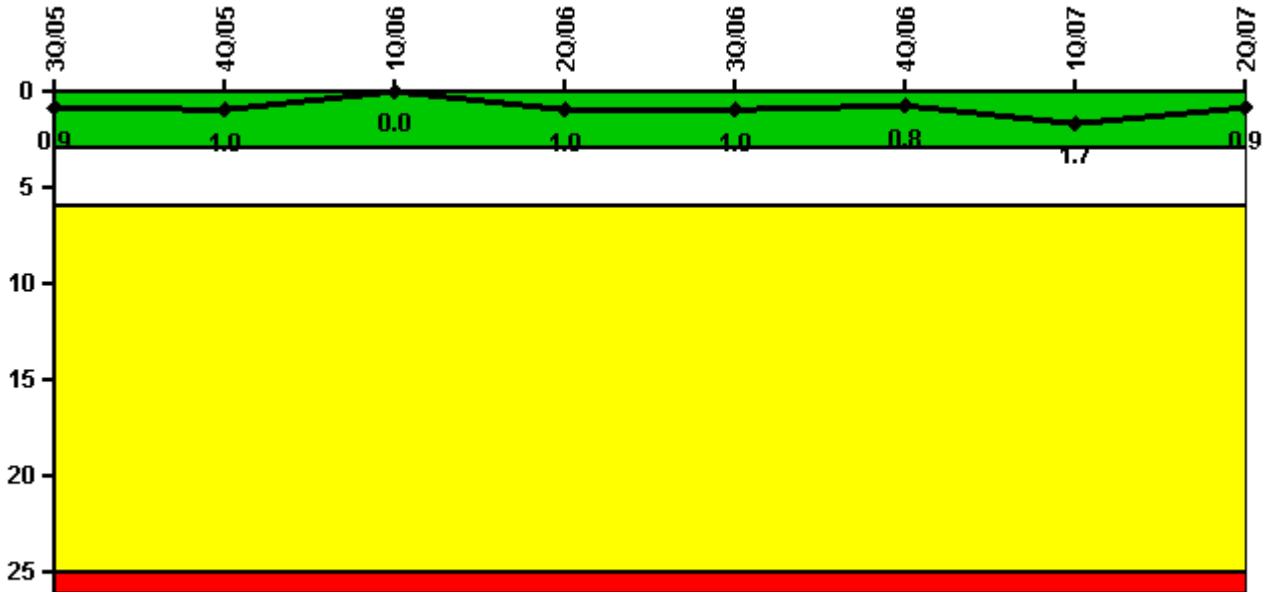


# Callaway

## 2Q/2007 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



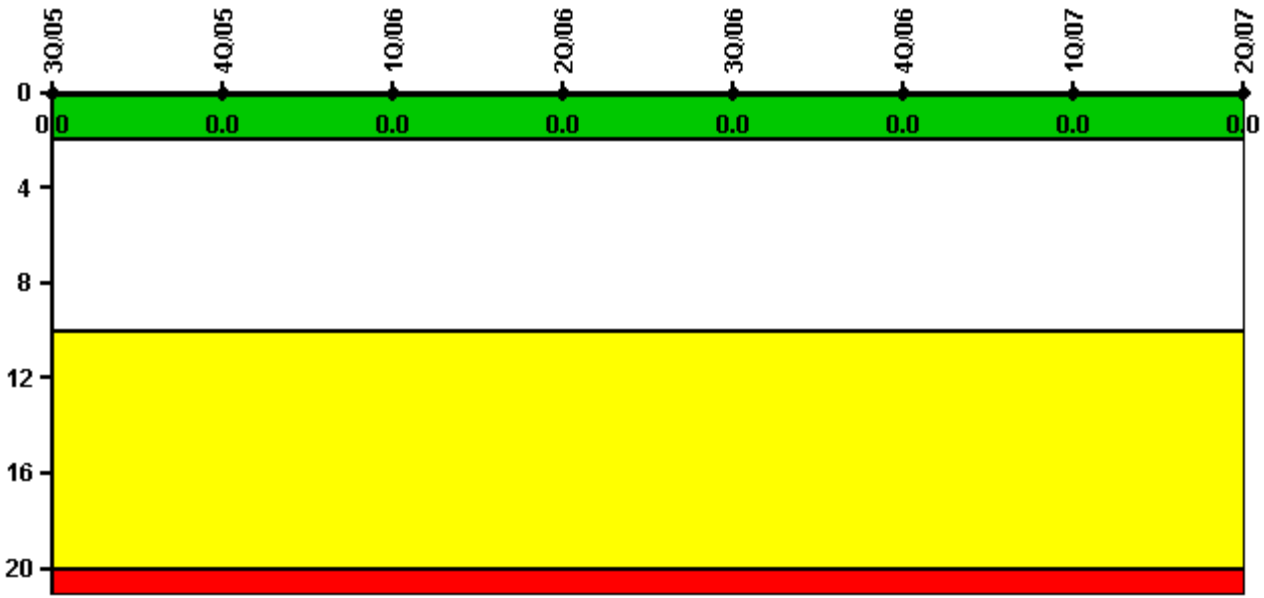
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned scrams	0	0	0	1.0	0	0	1.0	0
Critical hours	1873.0	1073.5	2160.0	1780.8	2208.0	2209.0	2081.3	1314.3
Indicator value	0.9	1.0	0	1.0	1.0	0.8	1.7	0.9

Licensee Comments: none

## Scrams with Loss of Normal Heat Removal



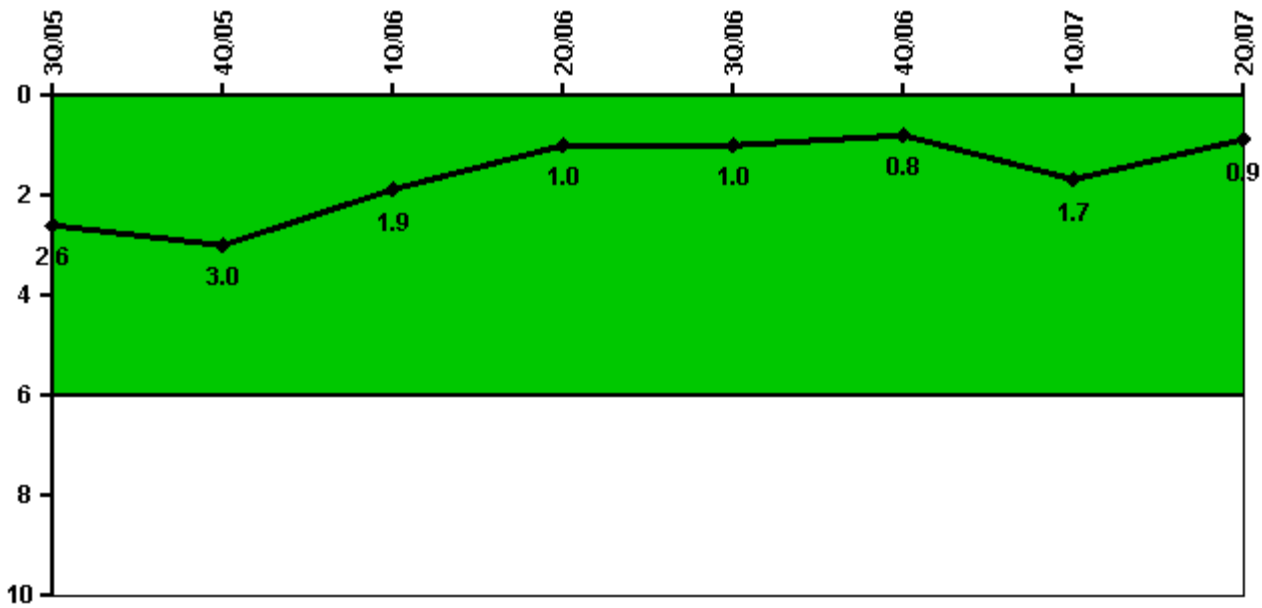
Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

### Notes

Scrams with Loss of Normal Heat Removal	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Scrams	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



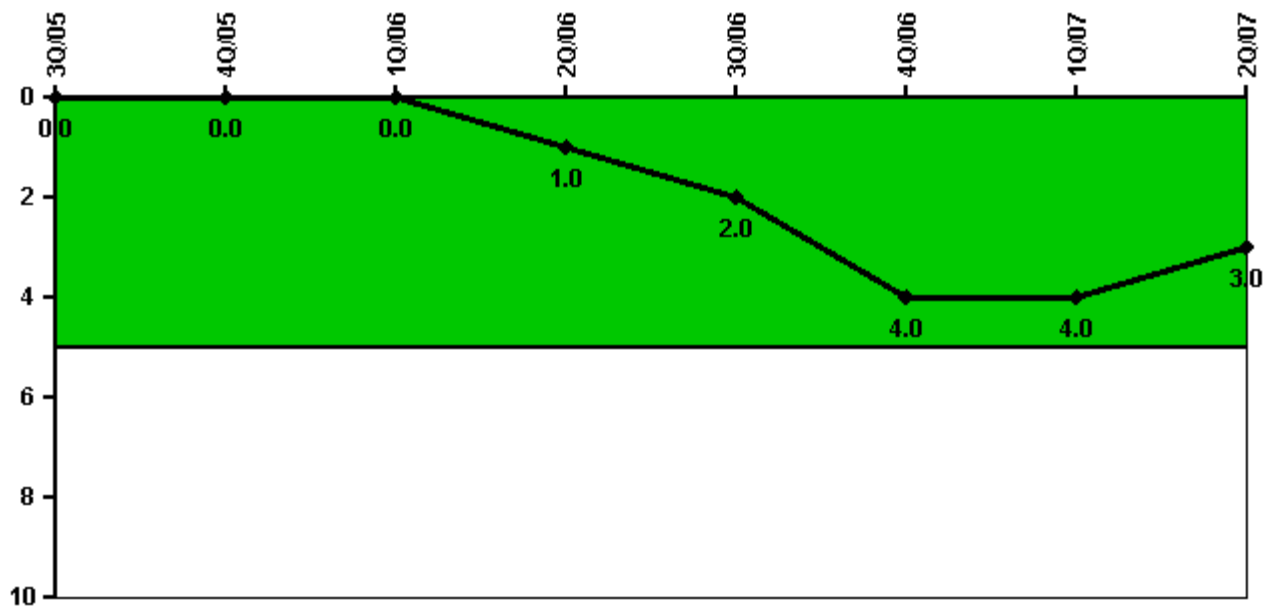
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned power changes	0	0	0	1.0	0	0	1.0	0
Critical hours	1873.0	1073.5	2160.0	1780.8	2208.0	2209.0	2081.3	1314.3
<b>Indicator value</b>	<b>2.6</b>	<b>3.0</b>	<b>1.9</b>	<b>1.0</b>	<b>1.0</b>	<b>0.8</b>	<b>1.7</b>	<b>0.9</b>

Licensee Comments: none

## Safety System Functional Failures (PWR)



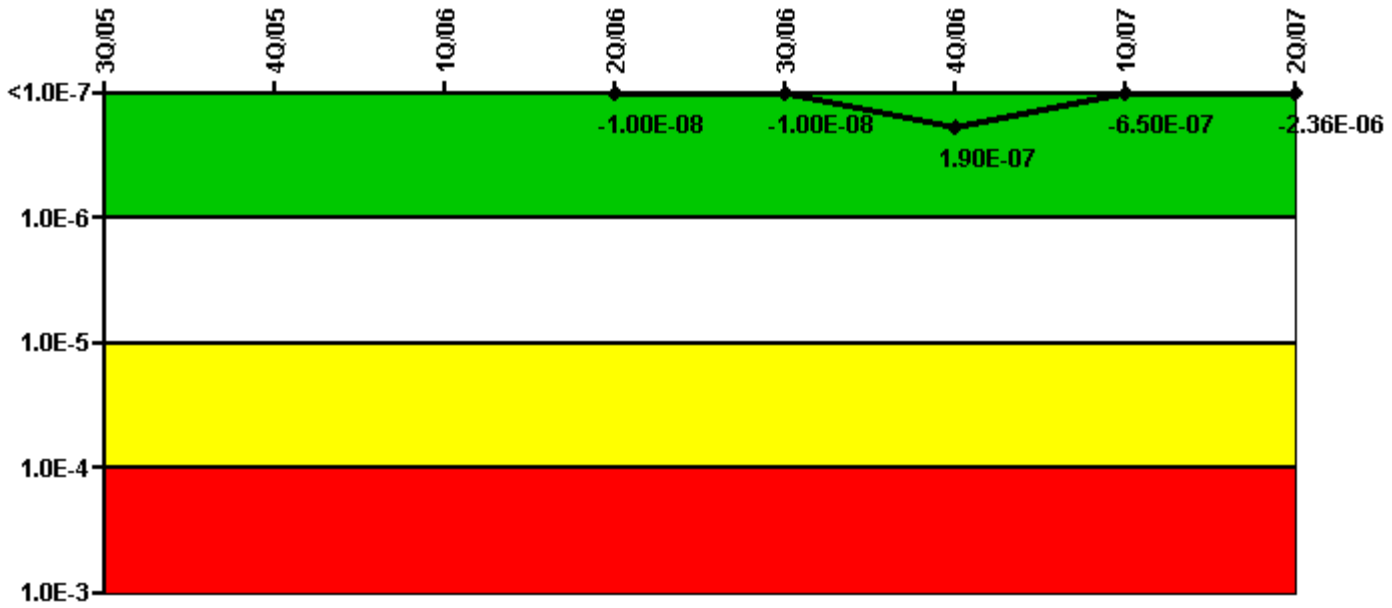
Thresholds: White > 5.0

### Notes

Safety System Functional Failures (PWR)	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Safety System Functional Failures	0	0	0	1	1	2	0	0
Indicator value	0	0	0	1	2	4	4	3

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



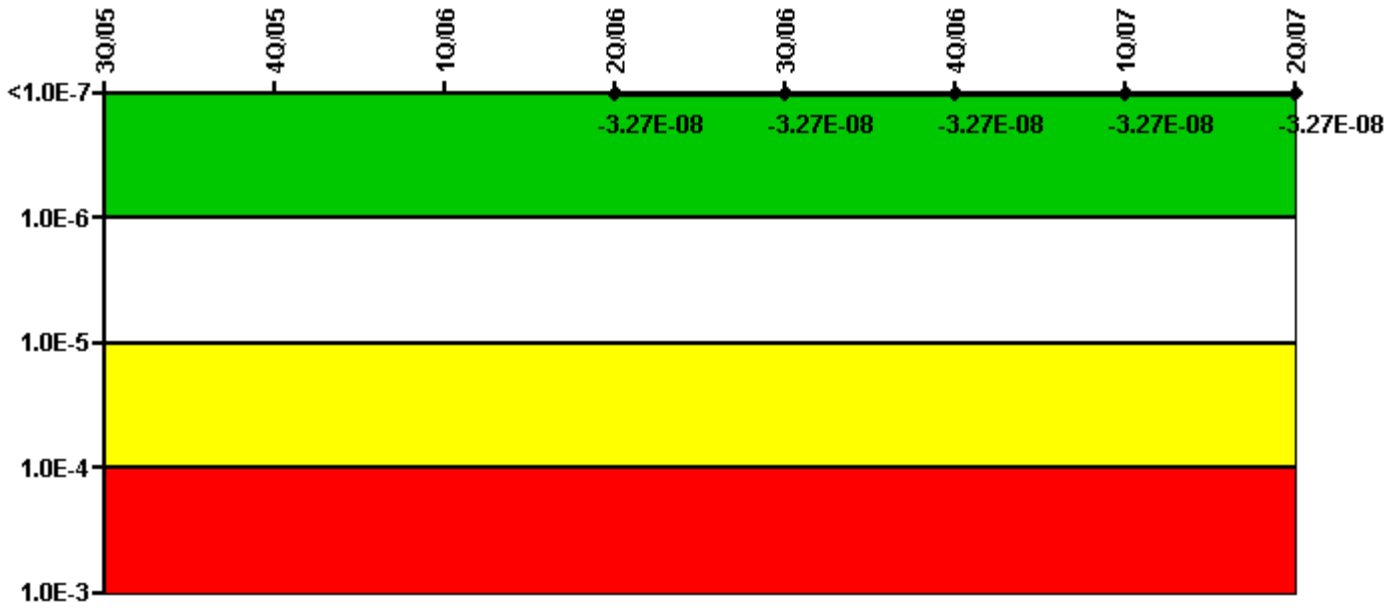
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ΔCDF)				6.00E-07	6.00E-07	8.00E-07	4.50E-07	3.40E-07
URI (ΔCDF)				-6.10E-07	-6.10E-07	-6.10E-07	-1.10E-06	-2.70E-06
PLE				NO	NO	NO	NO	NO
Indicator value				-1.00E-08	-1.00E-08	1.90E-07	-6.50E-07	-2.36E-06

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



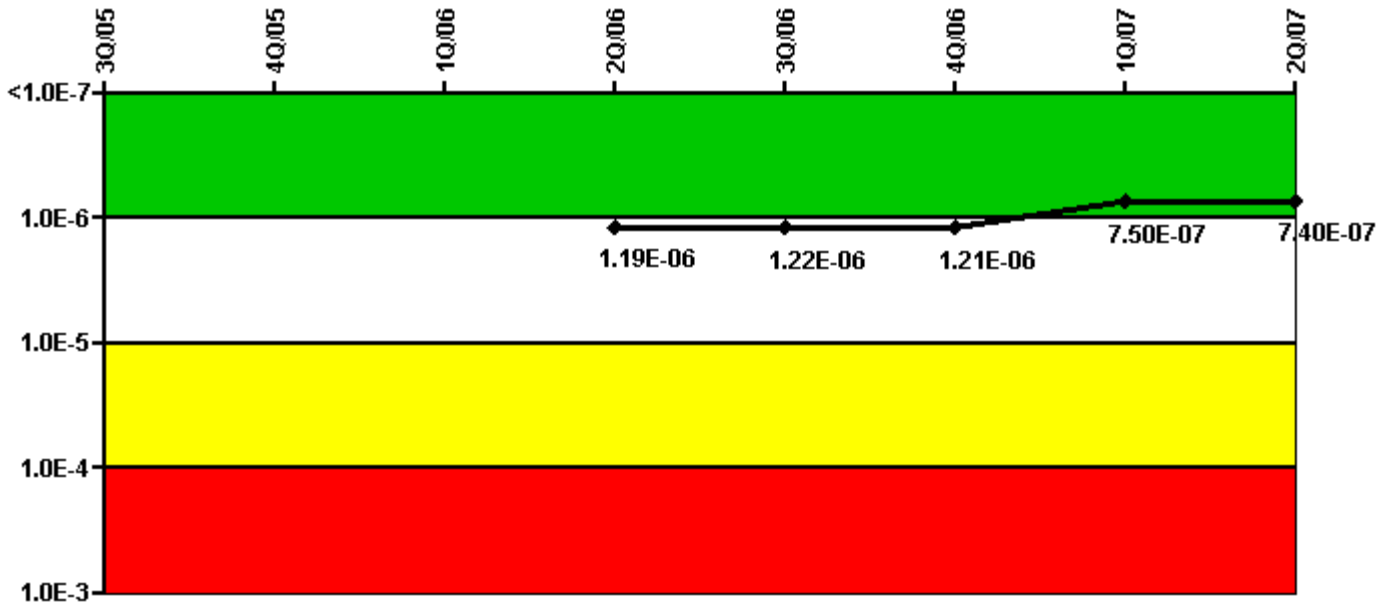
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI ( $\Delta$ CDF)				-4.70E-09	-4.70E-09	-4.70E-09	-4.70E-09	-4.70E-09
URI ( $\Delta$ CDF)				-2.80E-08	-2.80E-08	-2.80E-08	-2.80E-08	-2.80E-08
PLE				NO	NO	NO	NO	NO
Indicator value				-3.27E-08	-3.27E-08	-3.27E-08	-3.27E-08	-3.27E-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

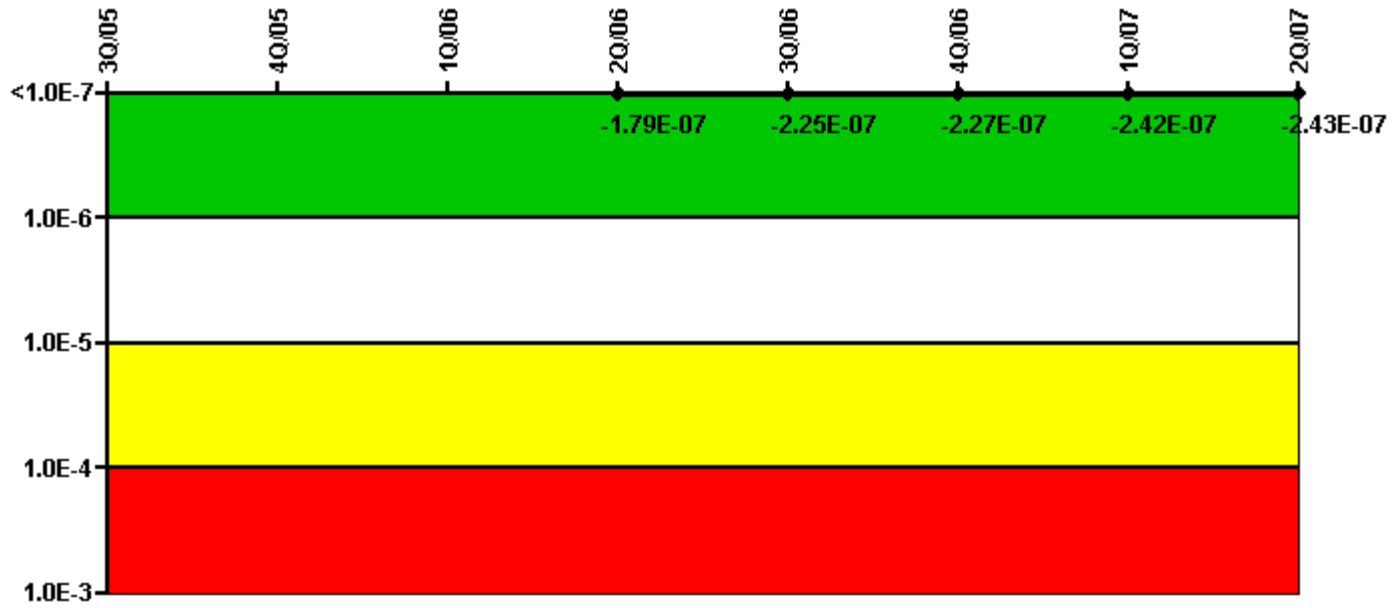
Mitigating Systems Performance Index, Heat Removal System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ΔCDF)				4.20E-07	4.50E-07	4.40E-07	4.20E-07	4.10E-07
URI (ΔCDF)				7.70E-07	7.70E-07	7.70E-07	3.30E-07	3.30E-07
PLE				NO	NO	NO	NO	NO
Indicator value				1.19E-06	1.22E-06	1.21E-06	7.50E-07	7.40E-07

## Licensee Comments:

4Q/06: Risk Cap Invoked. Following a process change related to collecting MSPI data, additional unavailability was discovered for this safety system which was not reflected in the original data submittal. The change affects data for the third and fourth quarters of 2006 and did not result in a color change to the PI for any affected reporting period. Callaway Plant has crossed the Green-White threshold for this performance indicator as of the second quarter 2006 data submittal. This condition results from the implementation of MSPI, there were no new failure inputs to this PI during the fourth quarter 2006. This issue has been entered into the Callaway corrective action program.

3Q/06: Following a process change related to collecting MSPI data, additional unavailability was discovered for this safety system which was not reflected in the original data submittal. The change affects data for the third and fourth quarters of 2006 and did not result in a color change to the PI for any affected reporting period. Callaway Plant has crossed the Green-White threshold for this performance indicator as of the second quarter 2006 data submittal. This condition results from the implementation of MSPI, there were no new failure inputs to this PI during the third quarter 2006. This issue has been entered into the Callaway corrective action program.

# 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/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ΔCDF)				4.10E-08	-5.30E-09	-6.90E-09	-2.20E-08	-2.30E-08
URI (ΔCDF)				-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07	-2.20E-07
PLE				NO	NO	NO	NO	NO
Indicator value				-1.79E-07	-2.25E-07	-2.27E-07	-2.42E-07	-2.43E-07

## Licensee Comments:

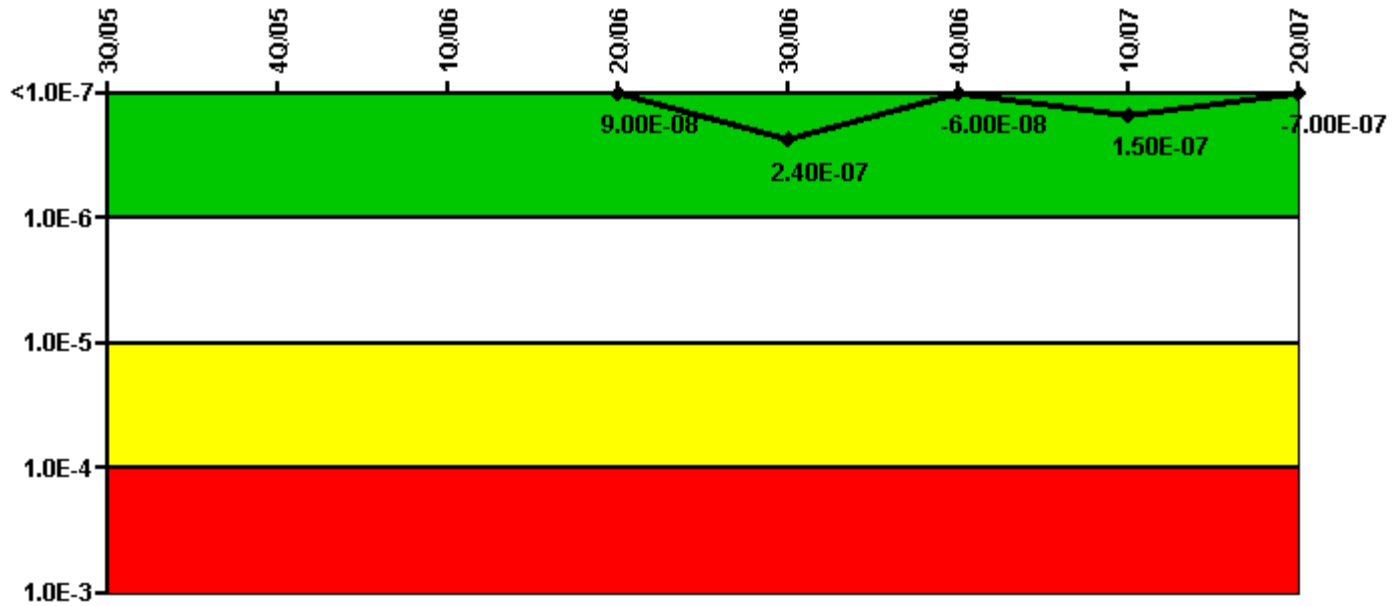
4Q/06: Following a process change related to collecting MSPI data, additional unavailability was discovered for this safety system which was not reflected in the original data submittal. The change affects data for the second, third and fourth quarters of 2006 and did not result in a color change to the PI for any affected reporting period.

3Q/06: Following a process change related to collecting MSPI data, additional unavailability was discovered for this safety system which was not reflected in the original data submittal. The change affects data for the second, third and fourth quarters of 2006 and did not result in a color change to the PI for any affected reporting period.

2Q/06: Following a process change related to collecting MSPI data, additional unavailability was discovered for this safety system which was not reflected in the original data submittal. The change affects data for the second, third and fourth quarters of 2006 and did not result in a color change to the PI for any affected reporting period.



# 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/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
UAI (ΔCDF)				$7.00E-07$	$8.50E-07$	$5.90E-07$	$8.00E-07$	$4.00E-07$
URI (ΔCDF)				$-6.10E-07$	$-6.10E-07$	$-6.50E-07$	$-6.50E-07$	$-1.10E-06$
PLE				NO	NO	NO	NO	NO
Indicator value				$9.00E-08$	$2.40E-07$	$-6.00E-08$	$1.50E-07$	$-7.00E-07$

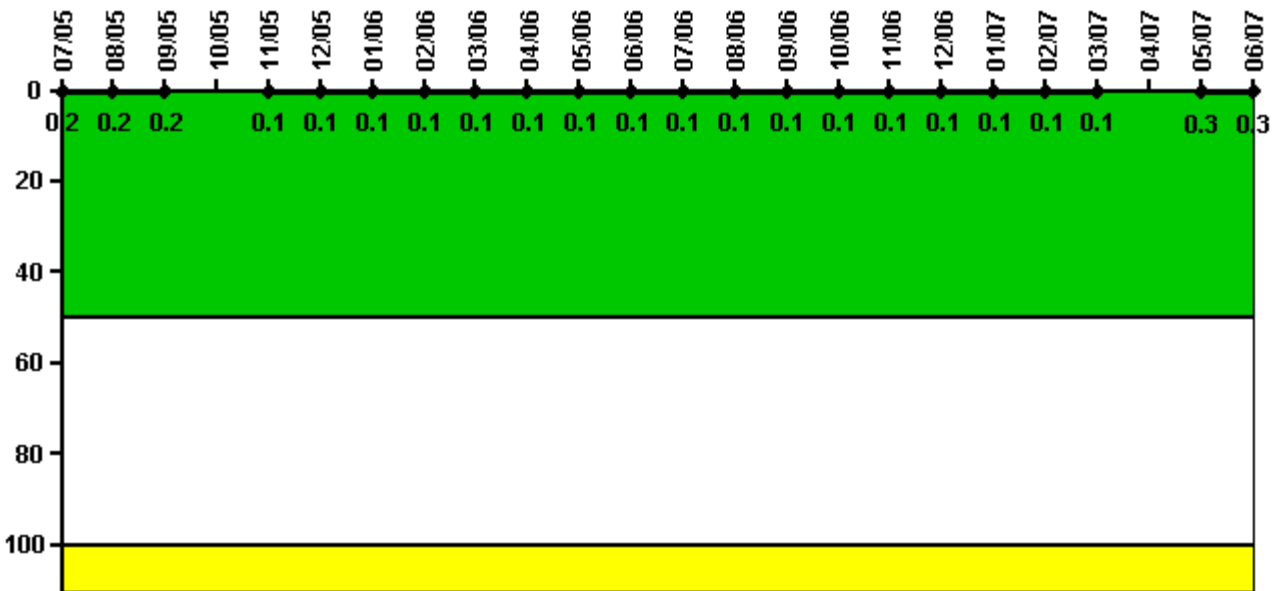
## Licensee Comments:

1Q/07: Following a process change related to collecting MSPI data, additional unavailability was discovered for this safety system which was not reflected in the original data submittal. The change affects data for the second and fourth quarters of 2006 and the first quarter 2007; and did not result in a color change to the PI for any affected reporting period.

4Q/06: Following a process change related to collecting MSPI data, additional unavailability was discovered for this safety system which was not reflected in the original data submittal. The change affects data for the second and fourth quarters of 2006 and the first quarter 2007; and did not result in a color change to the PI for any affected reporting period.

2Q/06: Following a process change related to collecting MSPI data, additional unavailability was discovered for this safety system which was not reflected in the original data submittal. The change affects data for the second and fourth quarters of 2006 and the first quarter 2007; and did not result in a color change to the PI for any affected reporting period.

# Reactor Coolant System Activity



**Thresholds: White > 50.0 Yellow > 100.0**

## Notes

Reactor Coolant System Activity	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06
Maximum activity	0.001620	0.001660	0.001710	N/A	0.000540	0.000544	0.000581	0.000548	0.000550	0.000597	0.000558	0.000583
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	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

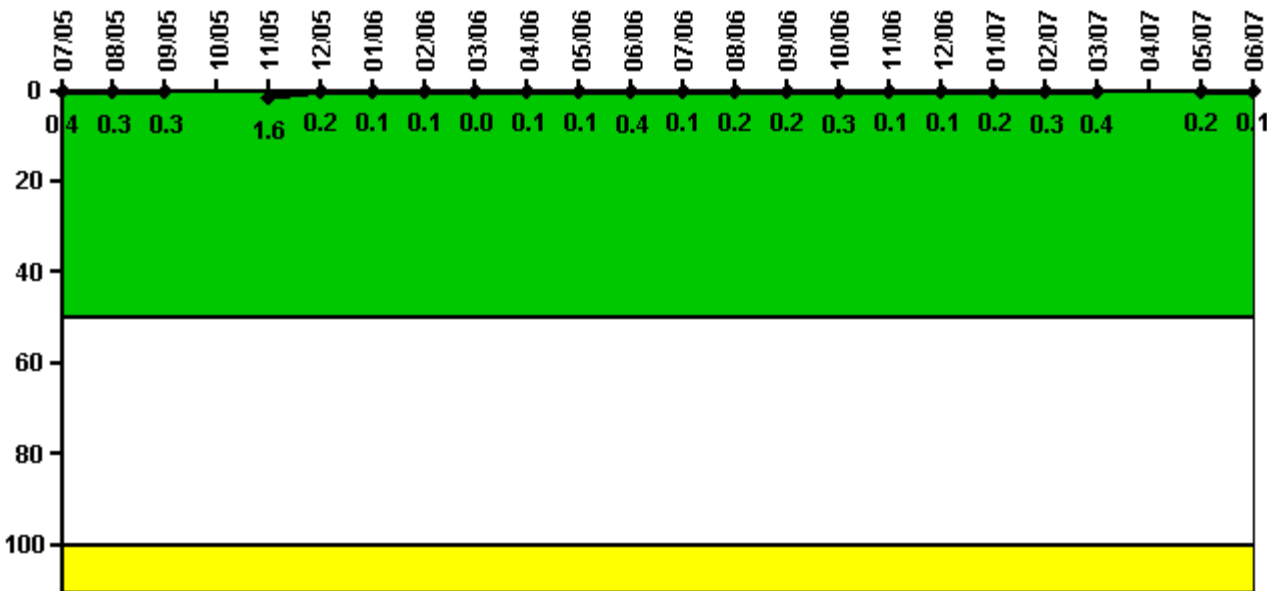
  

Reactor Coolant System Activity	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum activity	0.000627	0.000645	0.000643	0.000654	0.000675	0.000670	0.000978	0.000831	0.001050	N/A	0.002530	0.002730
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	N/A	0.3	0.3

Licensee Comments:

6/07: Due to normal refueling outage 15 and associated plant conditions that do not require RCS activity to be calculated, RCS Activity data for April 2007 is unavailable.

## Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	7/05	8/05	9/05	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06
Maximum leakage	0.038	0.030	0.030	N/A	0.156	0.023	0.013	0.007	0.003	0.005	0.014	0.035
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	0.3	0.3	N/A	1.6	0.2	0.1	0.1	0	0.1	0.1	0.4

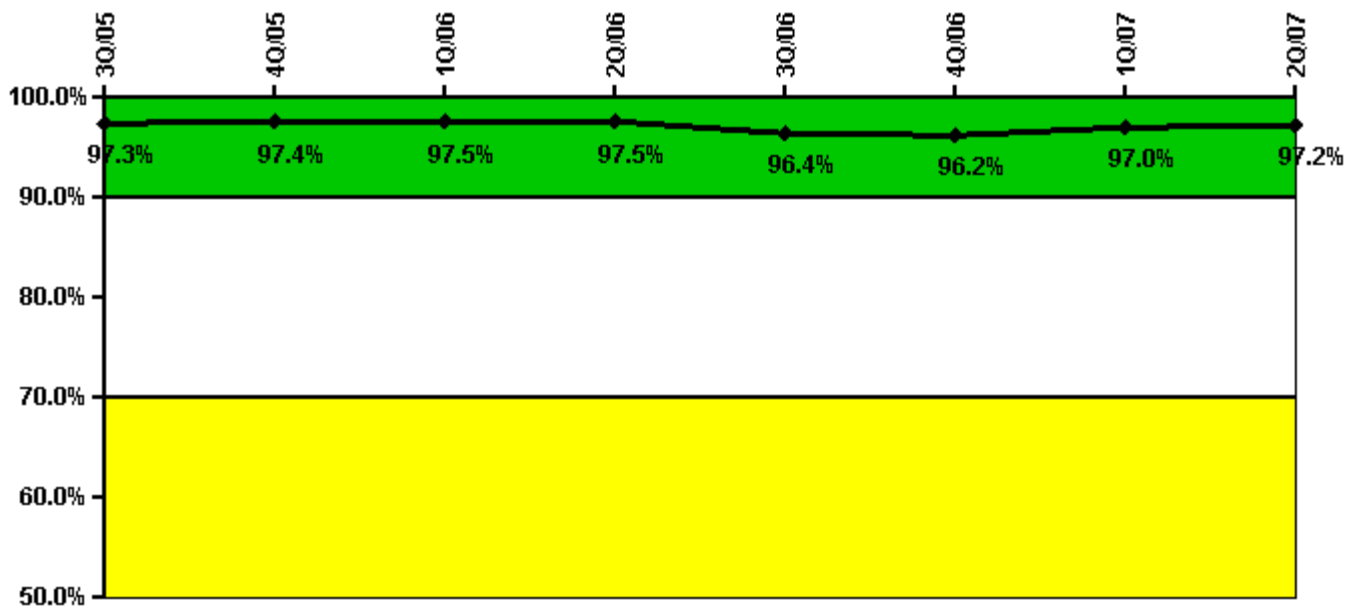
  

Reactor Coolant System Leakage	7/06	8/06	9/06	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07
Maximum leakage	0.012	0.016	0.023	0.028	0.013	0.014	0.016	0.025	0.037	N/A	0.016	0.013
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.1	0.2	0.2	0.3	0.1	0.1	0.2	0.3	0.4	N/A	0.2	0.1

Licensee Comments:

6/07: Due to normal refueling outage 15 and associated plant conditions that do not require RCS leakage to be calculated, RCS Identified Leakage data for April 2007 is unavailable.

## Drill/Exercise Performance



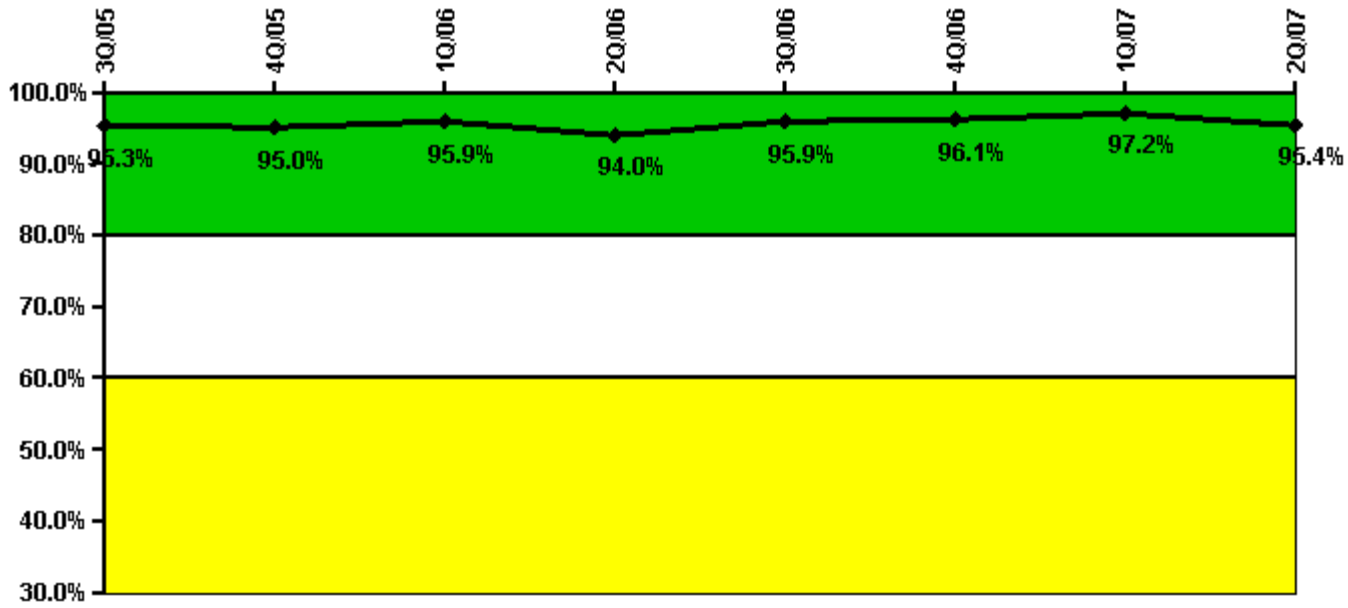
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful opportunities	14.0	0	36.0	0	27.0	31.0	18.0	14.0
Total opportunities	14.0	0	36.0	0	30.0	32.0	18.0	14.0
<b>Indicator value</b>	<b>97.3%</b>	<b>97.4%</b>	<b>97.5%</b>	<b>97.5%</b>	<b>96.4%</b>	<b>96.2%</b>	<b>97.0%</b>	<b>97.2%</b>

Licensee Comments: none

# ERO Drill Participation



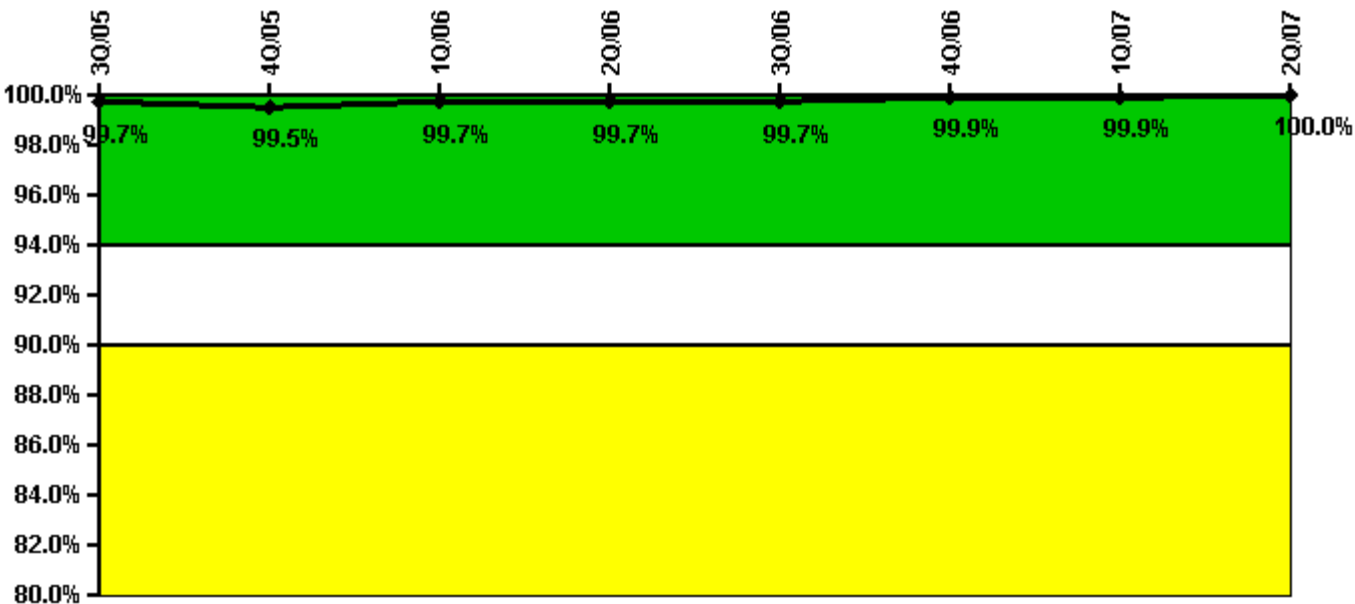
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Participating Key personnel	101.0	95.0	94.0	94.0	93.0	99.0	105.0	103.0
Total Key personnel	106.0	100.0	98.0	100.0	97.0	103.0	108.0	108.0
<b>Indicator value</b>	<b>95.3%</b>	<b>95.0%</b>	<b>95.9%</b>	<b>94.0%</b>	<b>95.9%</b>	<b>96.1%</b>	<b>97.2%</b>	<b>95.4%</b>

Licensee Comments: none

# Alert & Notification System



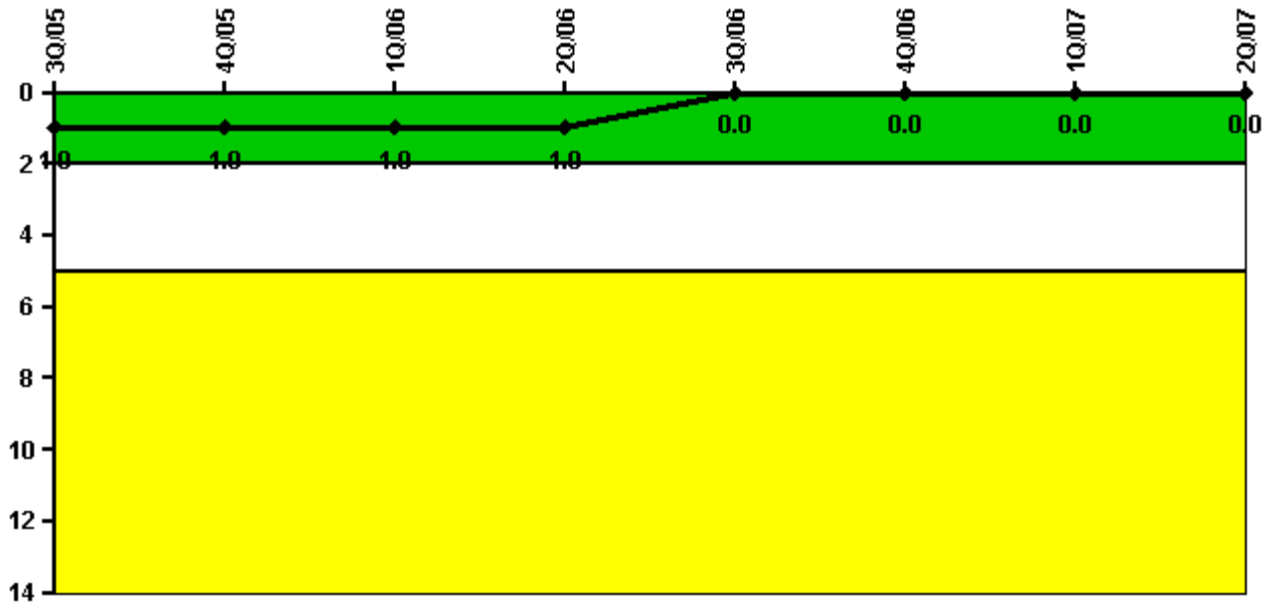
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful siren-tests	87	375	377	375	377	377	377	377
Total sirens-tests	87	377	377	377	377	377	377	377
Indicator value	99.7%	99.5%	99.7%	99.7%	99.7%	99.9%	99.9%	100.0%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



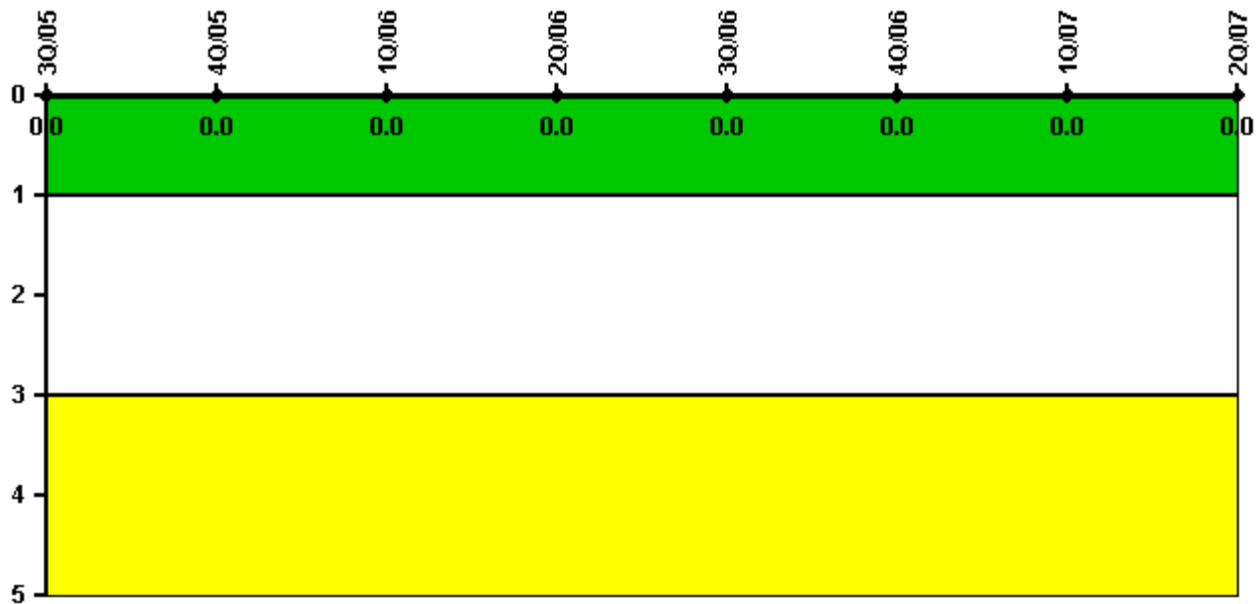
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
High radiation area occurrences	1	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>1</b>	<b>1</b>	<b>1</b>	<b>1</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	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/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.