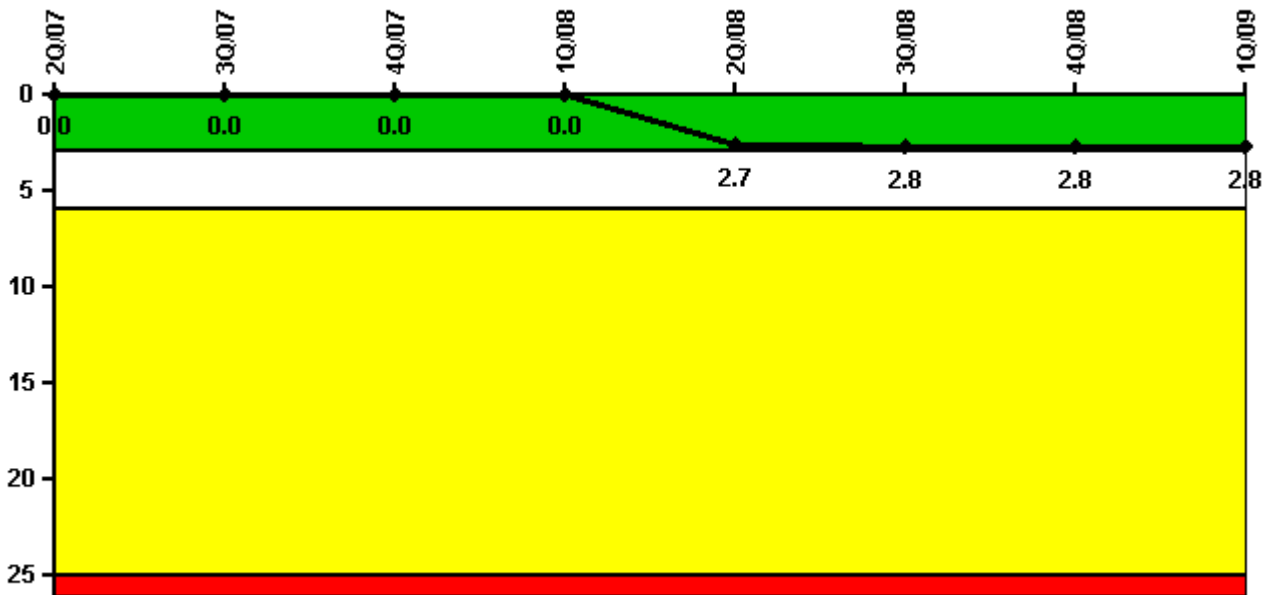


# Millstone 2

## 1Q/2009 Performance Indicators

Licensee's General Comments: Updated the past unavailability (2nd qtr 2007-1st qtr 2008) based on error in a procedure resulting in additional unavailability. These changes did not result in crossing any threshold.

### Unplanned Scrams per 7000 Critical Hrs



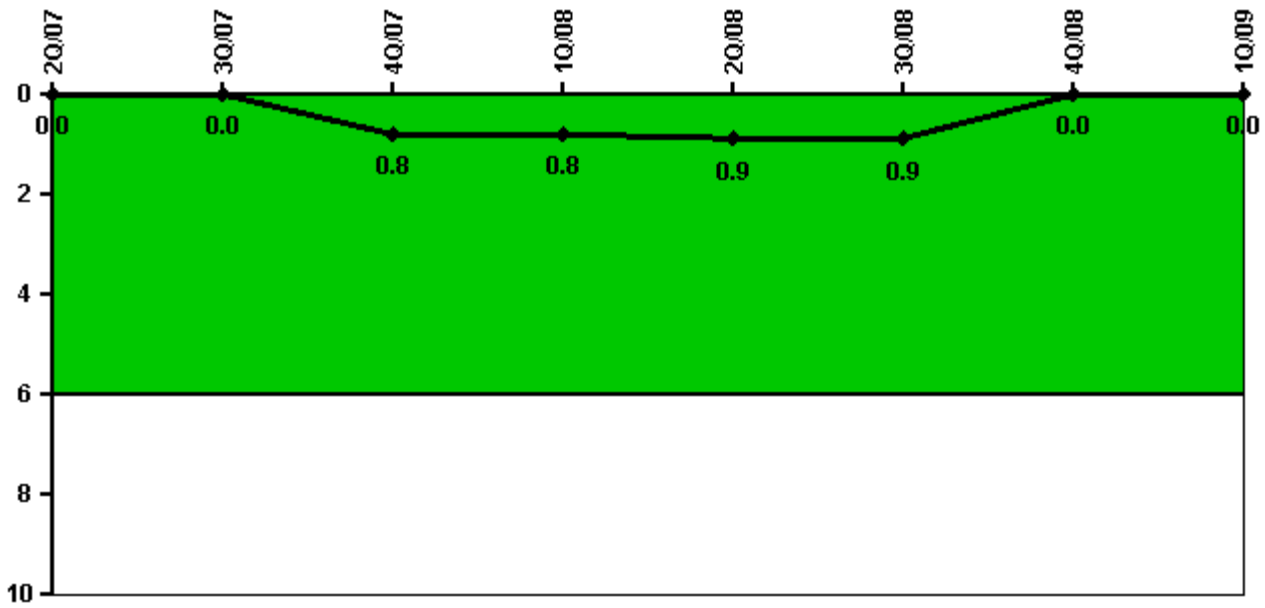
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned scrams	0	0	0	0	3.0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2183.0	1039.0	2198.4	2209.0	2159.0
Indicator value	0	0	0	0	2.7	2.8	2.8	2.8

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



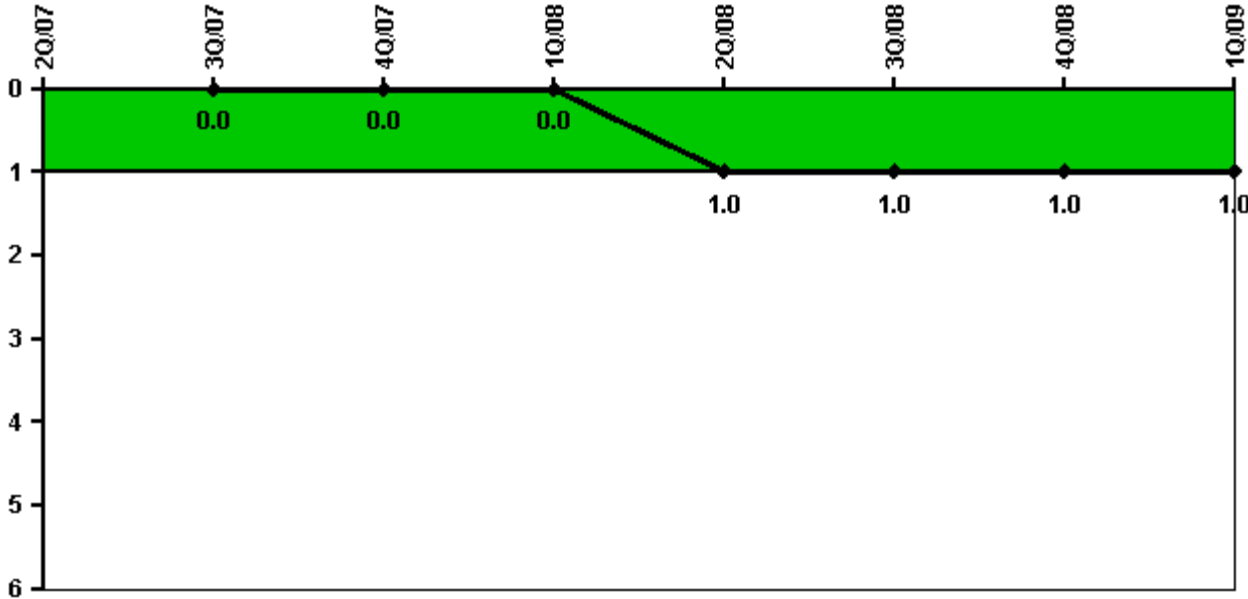
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2183.0	1039.0	2198.4	2209.0	2159.0
Indicator value	0	0	0.8	0.8	0.9	0.9	0	0

Licensee Comments: none

# Unplanned Scrams with Complications



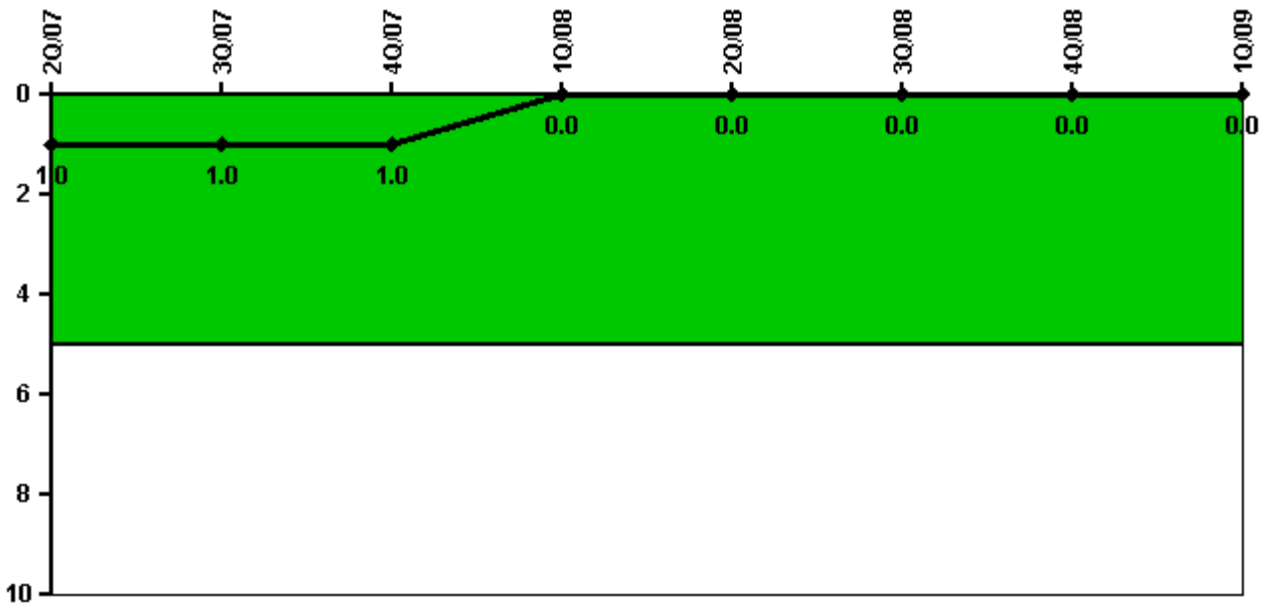
Thresholds: White > 1.0

**Notes**

Unplanned Scrams with Complications	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Scrams with complications	0	0	0	0	1.0	0	0	0
Indicator value		0.0	0.0	0.0	1.0	1.0	1.0	1.0

Licensee Comments: none

## Safety System Functional Failures (PWR)



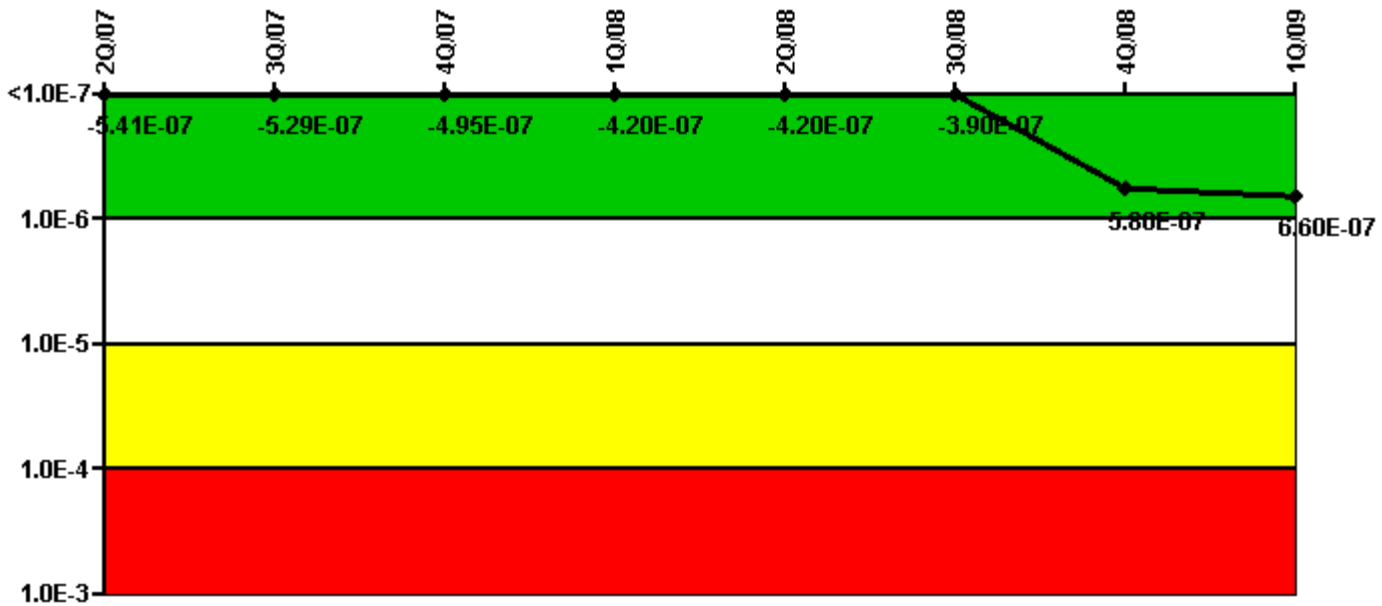
Thresholds: White > 5.0

### Notes

Safety System Functional Failures (PWR)	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	1	1	1	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

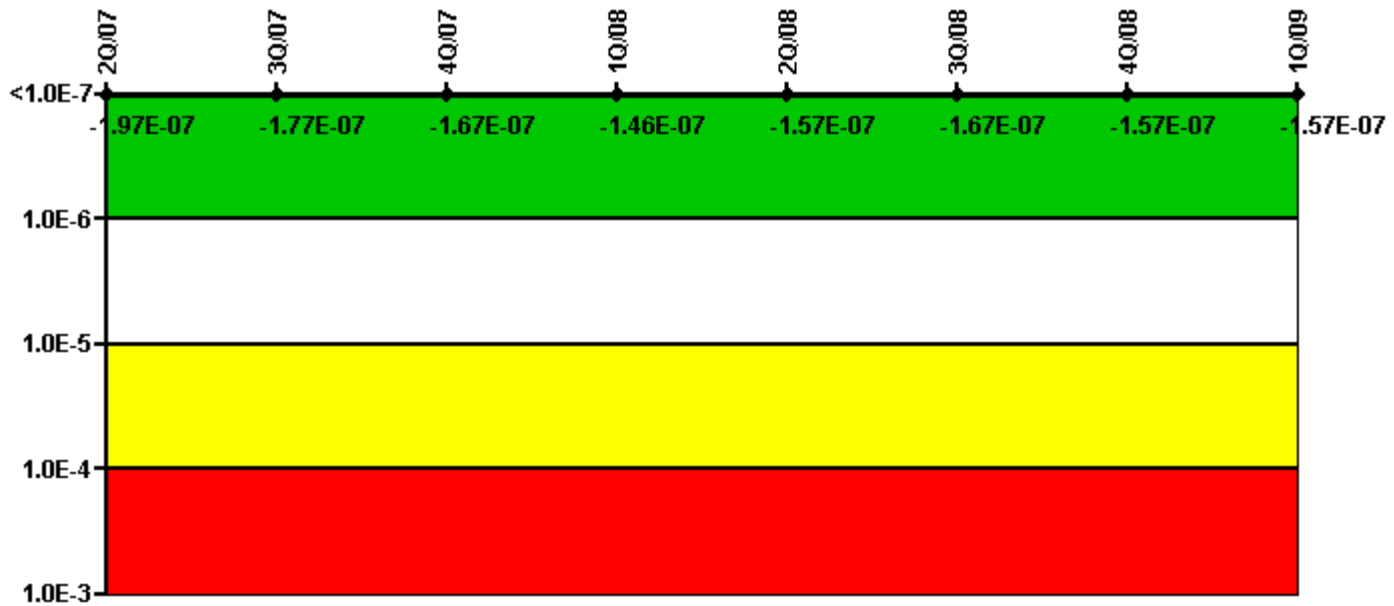
Mitigating Systems Performance Index, Emergency AC Power System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI ( $\Delta$ CDF)	$-1.40E-09$	$1.10E-08$	$5.50E-08$	$1.30E-07$	$1.50E-07$	$1.80E-07$	$2.20E-07$	$3.00E-07$
URI ( $\Delta$ CDF)	$-5.40E-07$	$-5.40E-07$	$-5.50E-07$	$-5.50E-07$	$-5.70E-07$	$-5.70E-07$	$3.60E-07$	$3.60E-07$
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	$-5.41E-07$	$-5.29E-07$	$-4.95E-07$	$-4.20E-07$	$-4.20E-07$	$-3.90E-07$	$5.80E-07$	$6.60E-07$

Licensee Comments:

1Q/09: Updated the past unavailability (2nd qtr 2007-1st qtr 2008) based on error in a procedure resulting in additional unavailability. This issue was in the site's corrective action process. This did not result in crossing any threshold.

4Q/07: Changed baseline unavailability due to 1 overhaul being performed during 3 year period

# Mitigating Systems Performance Index, High Pressure Injection System



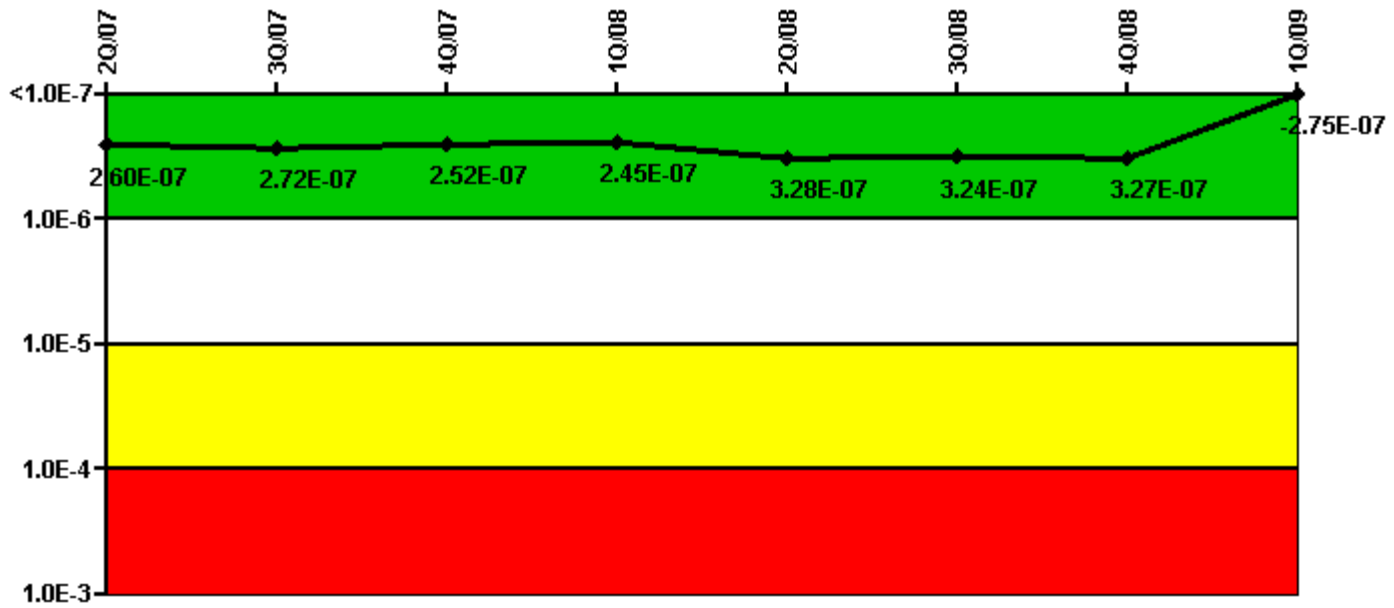
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08	-5.70E-08
URI (ΔCDF)	-1.40E-07	-1.20E-07	-1.10E-07	-8.90E-08	-1.00E-07	-1.10E-07	-1.00E-07	-1.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.97E-07	-1.77E-07	-1.67E-07	-1.46E-07	-1.57E-07	-1.67E-07	-1.57E-07	-1.57E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



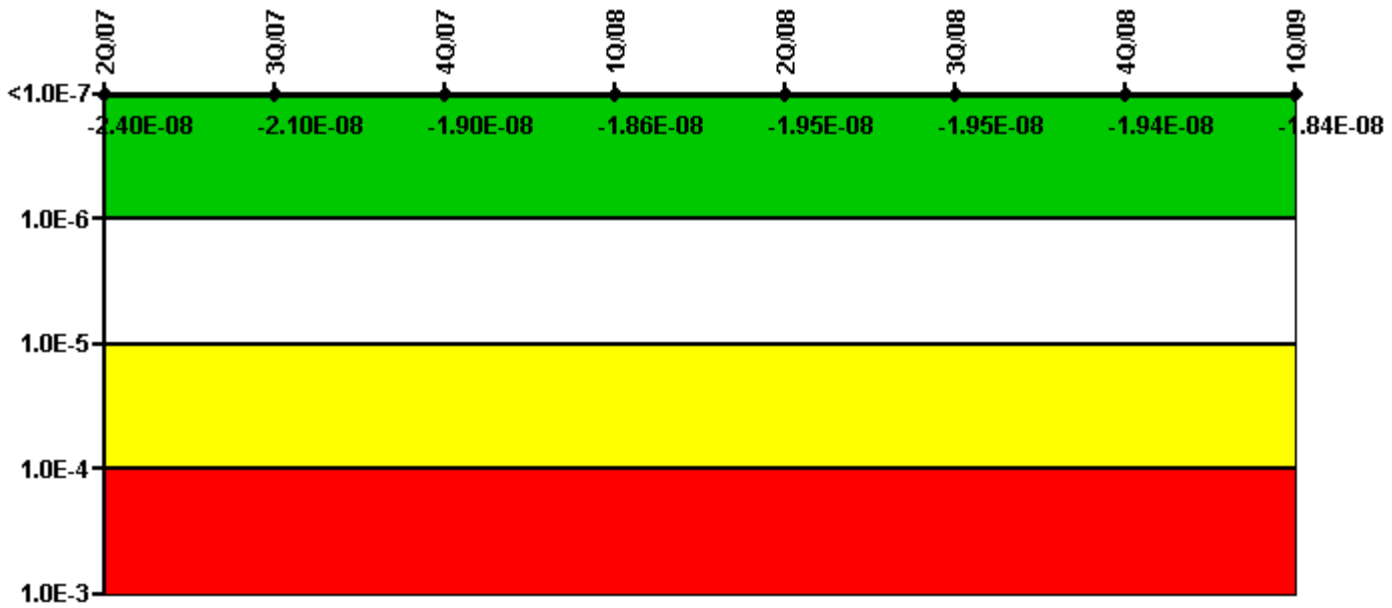
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI ( $\Delta$ CDF)	6.00E-08	6.20E-08	4.20E-08	4.50E-08	4.80E-08	4.40E-08	5.70E-08	-3.50E-08
URI ( $\Delta$ CDF)	2.00E-07	2.10E-07	2.10E-07	2.00E-07	2.80E-07	2.80E-07	2.70E-07	-2.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	2.60E-07	2.72E-07	2.52E-07	2.45E-07	3.28E-07	3.24E-07	3.27E-07	-2.75E-07

Licensee Comments: none

# Mitigating Systems Performance Index, Residual Heat Removal System



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

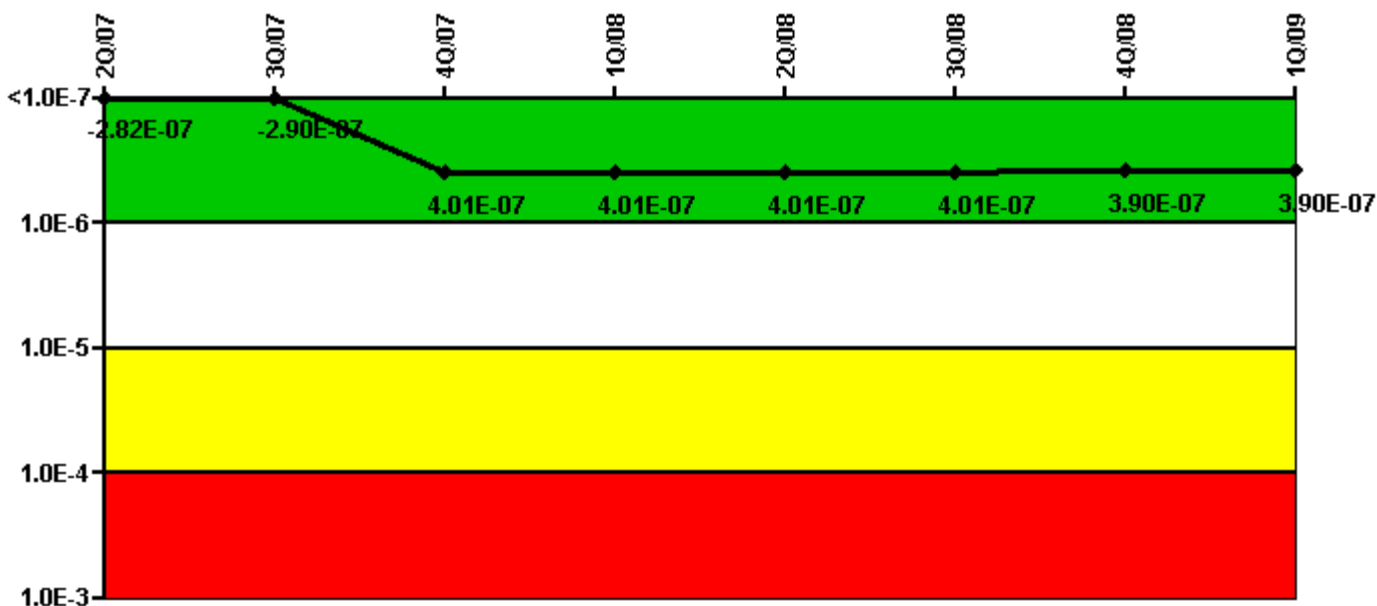
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI ( $\Delta$ CDF)	-1.00E-09	-1.00E-09	-1.00E-09	-5.70E-10	-5.20E-10	-5.10E-10	-4.40E-10	-4.20E-10
URI ( $\Delta$ CDF)	-2.30E-08	-2.00E-08	-1.80E-08	-1.80E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-08	-2.10E-08	-1.90E-08	-1.86E-08	-1.95E-08	-1.95E-08	-1.94E-08	-1.84E-08

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



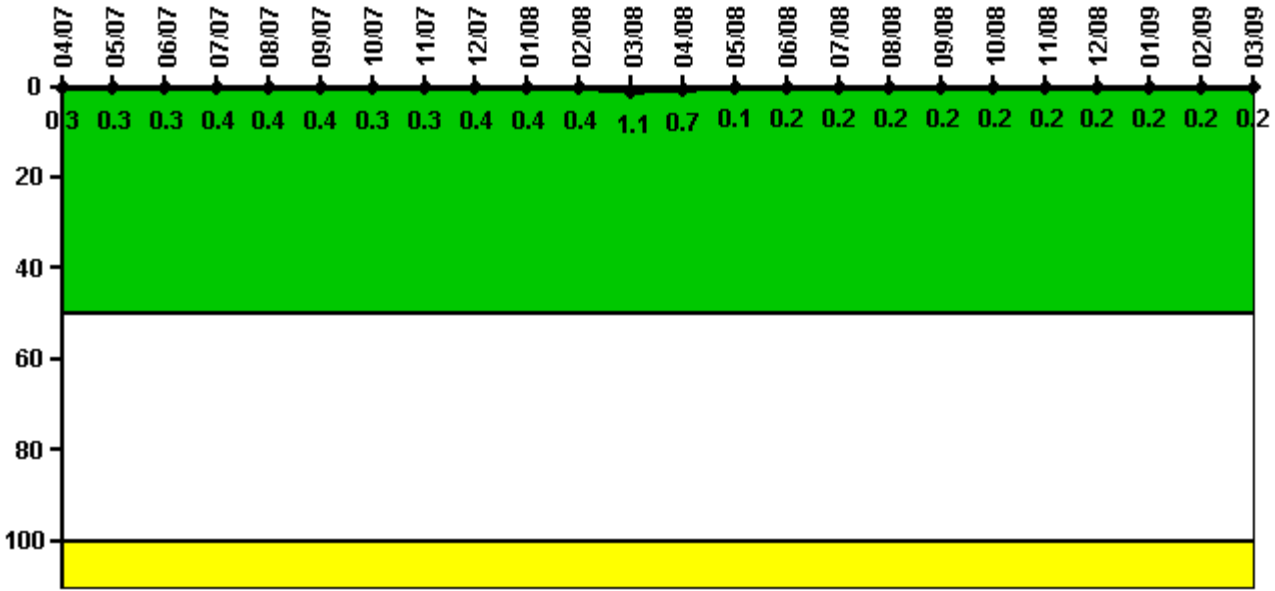
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI ( $\Delta$ CDF)	-2.20E-08	-3.00E-08	-1.90E-08	-1.90E-08	-1.90E-08	-1.90E-08	-3.00E-08	-3.00E-08
URI ( $\Delta$ CDF)	-2.60E-07	-2.60E-07	4.20E-07	4.20E-07	4.20E-07	4.20E-07	4.20E-07	4.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.82E-07	-2.90E-07	4.01E-07	4.01E-07	4.01E-07	4.01E-07	3.90E-07	3.90E-07

Licensee Comments: none

## Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

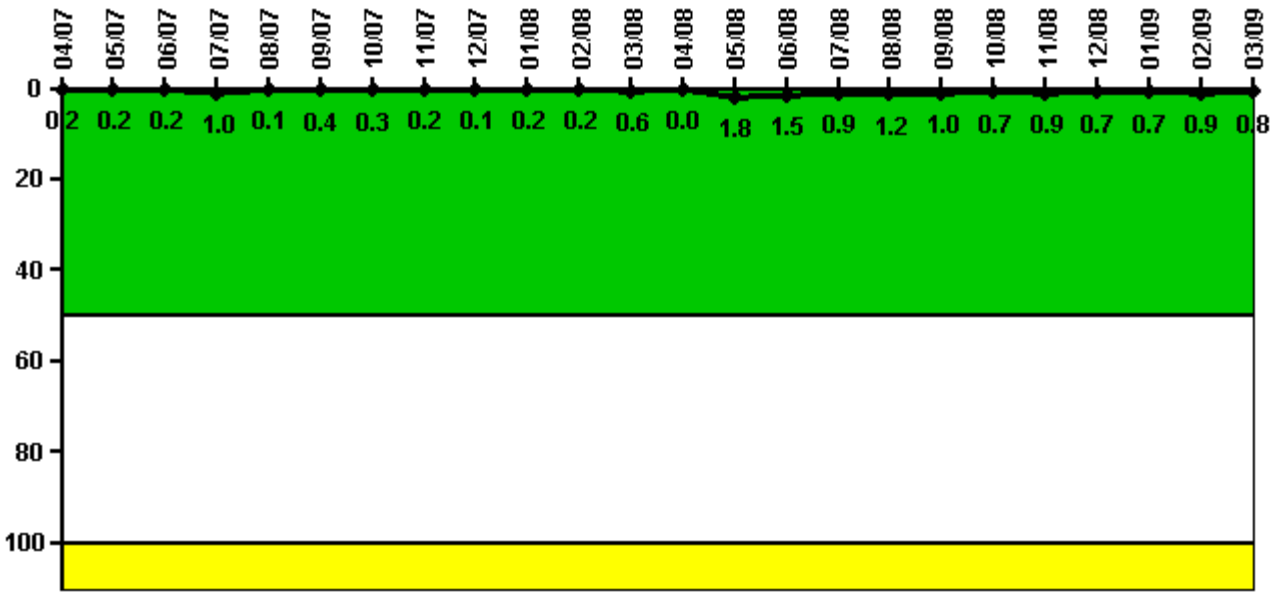
Reactor Coolant System Activity	4/07	5/07	6/07	7/07	8/07	9/07	10/07	11/07	12/07	1/08	2/08	3/08
Maximum activity	0.003240	0.003440	0.003400	0.003560	0.003560	0.003610	0.003320	0.003400	0.003510	0.003570	0.003680	0.010500
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.4	0.4	0.4	1.1

Reactor Coolant System Activity	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum activity	0.007390	0.001390	0.001550	0.001610	0.001690	0.001720	0.001800	0.001870	0.001900	0.002040	0.002070	0.002360
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	0.7	0.1	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



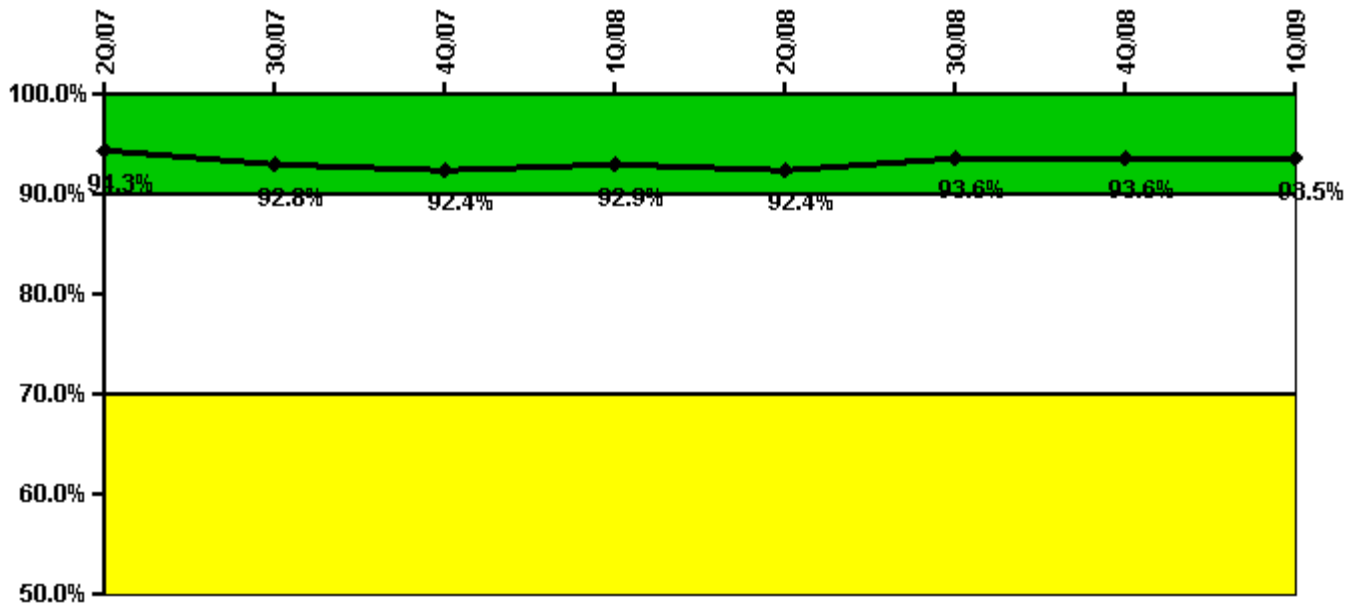
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	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	0.015	0.024	0.018	0.096	0.012	0.035	0.033	0.024	0.014	0.018	0.020	0.061
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	0.2	0.2	0.2	1.0	0.1	0.4	0.3	0.2	0.1	0.2	0.2	0.6
Reactor Coolant System Leakage	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09
Maximum leakage	0.004	0.180	0.145	0.093	0.124	0.096	0.067	0.092	0.069	0.073	0.085	0.080
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	1.8	1.5	0.9	1.2	1.0	0.7	0.9	0.7	0.7	0.9	0.8

Licensee Comments: none

## Drill/Exercise Performance



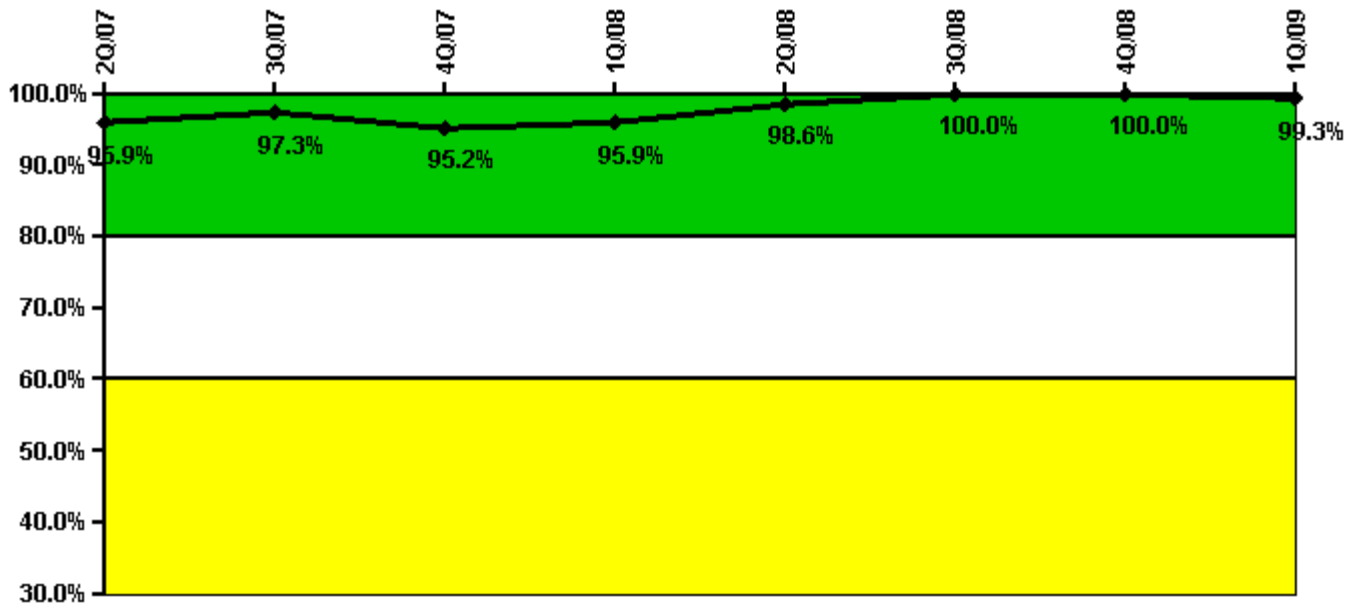
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful opportunities	42.0	30.0	36.0	35.0	38.0	57.0	0	23.0
Total opportunities	45.0	31.0	40.0	37.0	41.0	59.0	0	26.0
Indicator value	94.3%	92.8%	92.4%	92.9%	92.4%	93.6%	93.6%	93.5%

Licensee Comments: none

## ERO Drill Participation



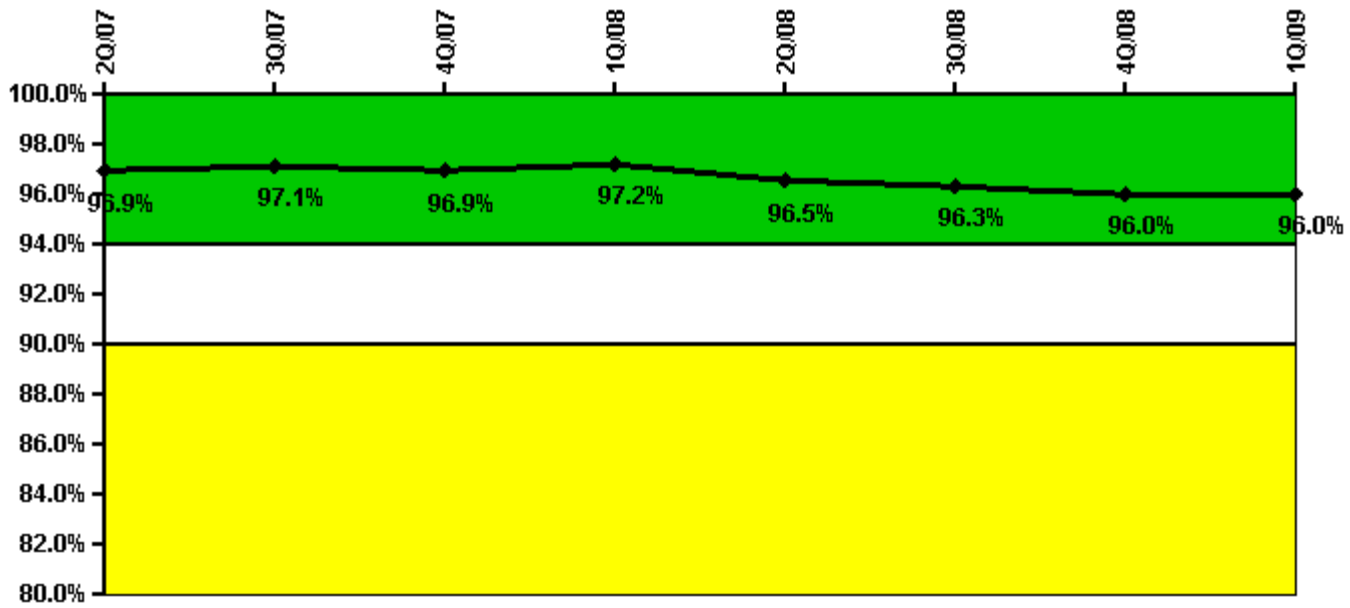
**Thresholds:** White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Participating Key personnel	139.0	145.0	140.0	141.0	144.0	147.0	145.0	142.0
Total Key personnel	145.0	149.0	147.0	147.0	146.0	147.0	145.0	143.0
Indicator value	95.9%	97.3%	95.2%	95.9%	98.6%	100.0%	100.0%	99.3%

Licensee Comments: none

## Alert & Notification System



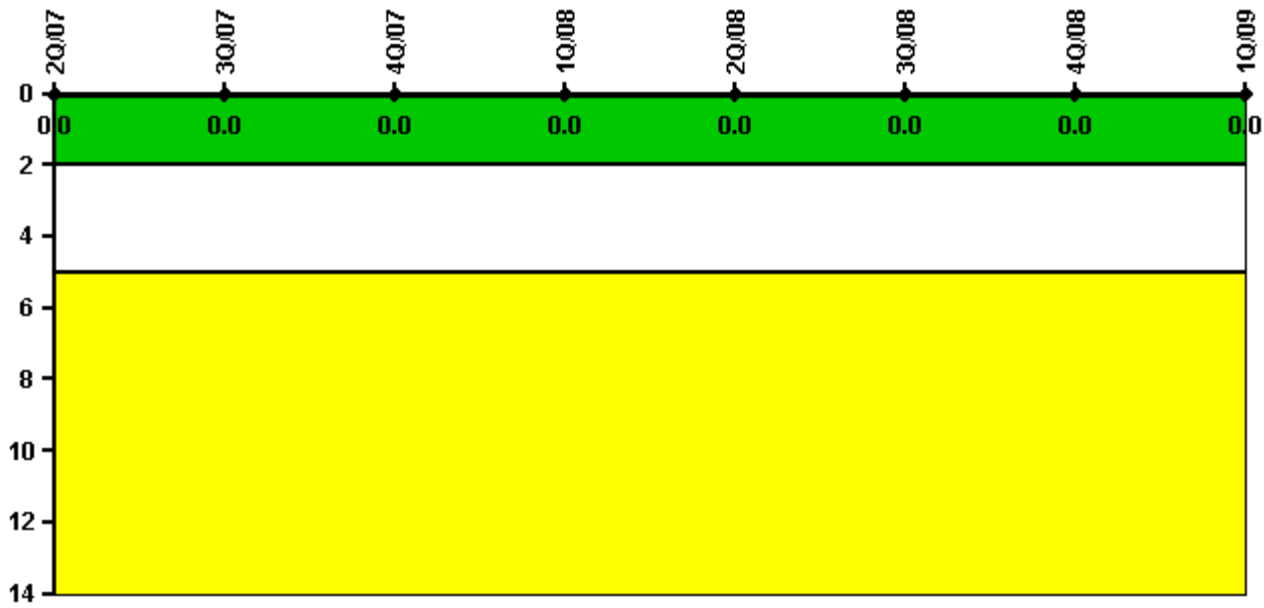
Thresholds: White < 94.0% Yellow < 90.0%

### Notes

Alert & Notification System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful siren-tests	314	453	308	316	304	450	304	316
Total sirens-tests	318	477	318	318	318	477	318	318
Indicator value	96.9%	97.1%	96.9%	97.2%	96.5%	96.3%	96.0%	96.0%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
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
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

## RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

### Notes

RETS/ODCM Radiological Effluent	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

[Security](#) information not publicly available.