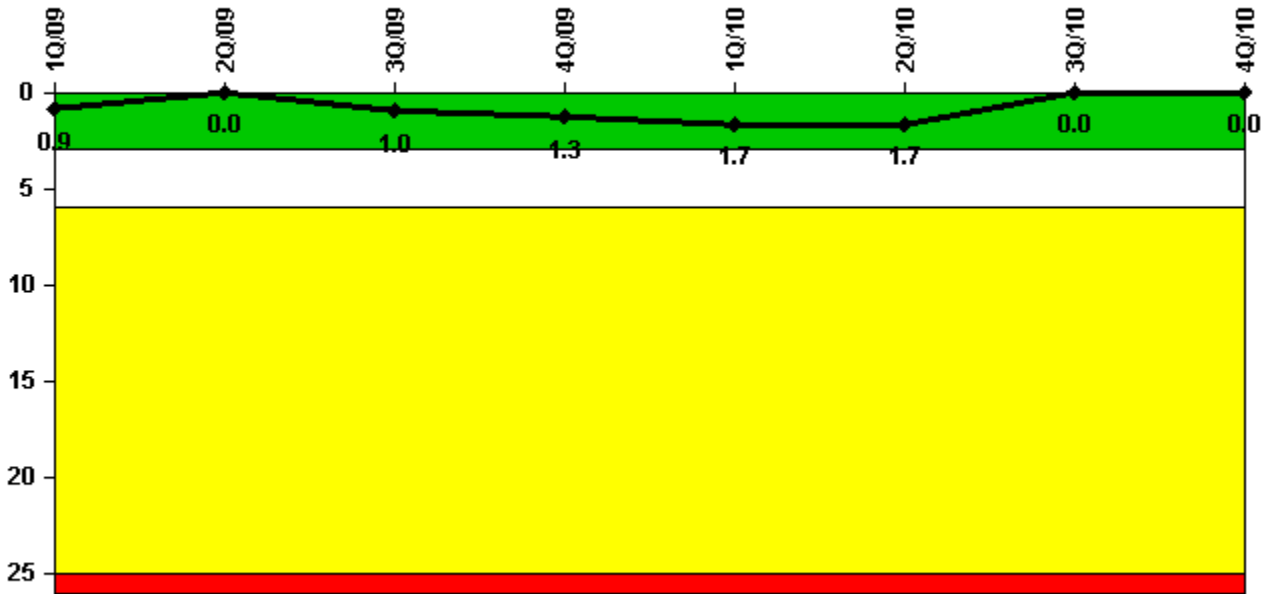


# San Onofre 2

## 4Q/2010 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



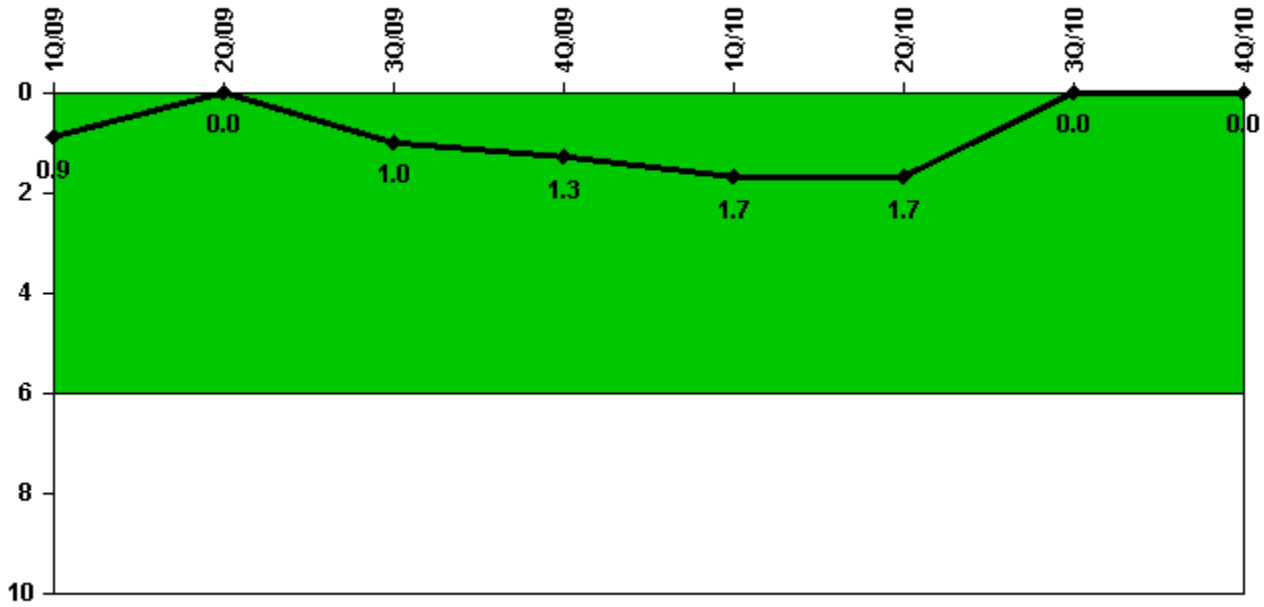
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	1007.7	2184.0	2052.4	0	0	2003.8	2208.0	2209.0
Indicator value	0.9	0	1.0	1.3	1.7	1.7	0	0

Licensee Comments: none

## Unplanned Power Changes per 7000 Critical Hrs



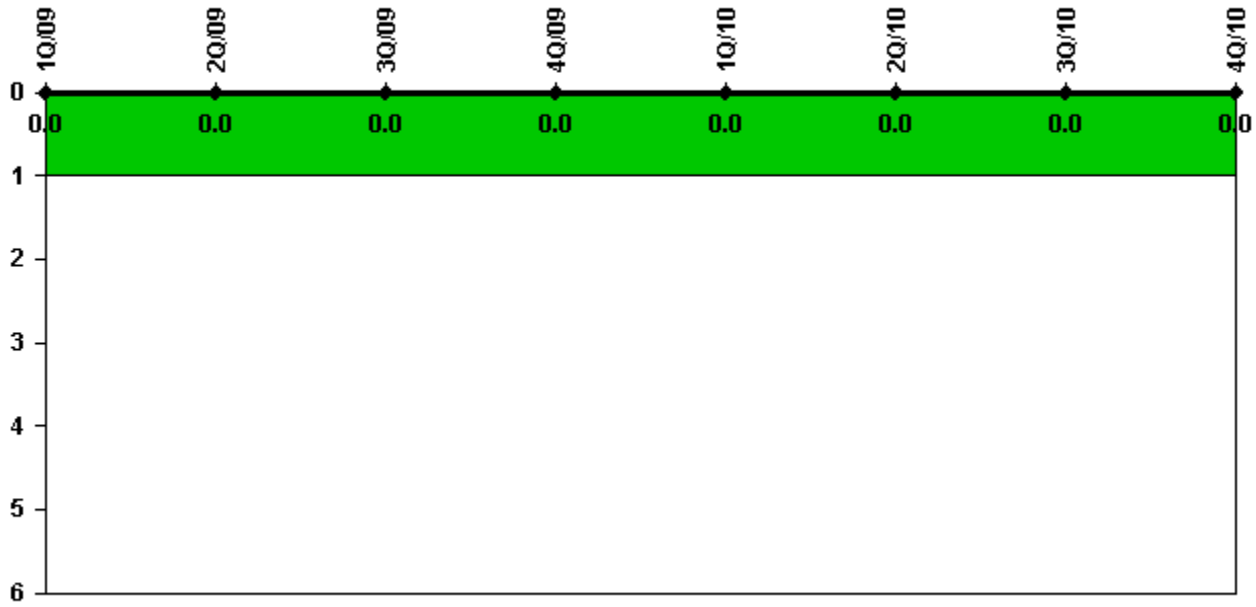
Thresholds: White > 6.0

### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	1007.7	2184.0	2052.4	0	0	2003.8	2208.0	2209.0
Indicator value	0.9	0	1.0	1.3	1.7	1.7	0	0

Licensee Comments: none

## Unplanned Scrams with Complications



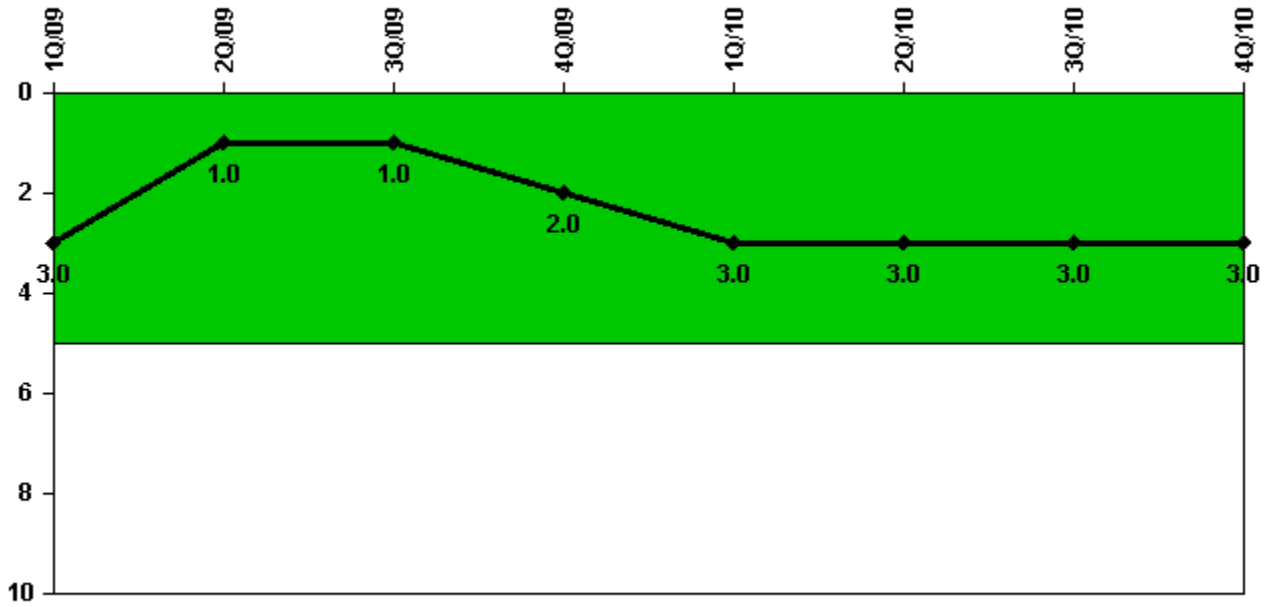
Thresholds: White > 1.0

### Notes

Unplanned Scrams with Complications	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Licensee Comments: none

## Safety System Functional Failures (PWR)



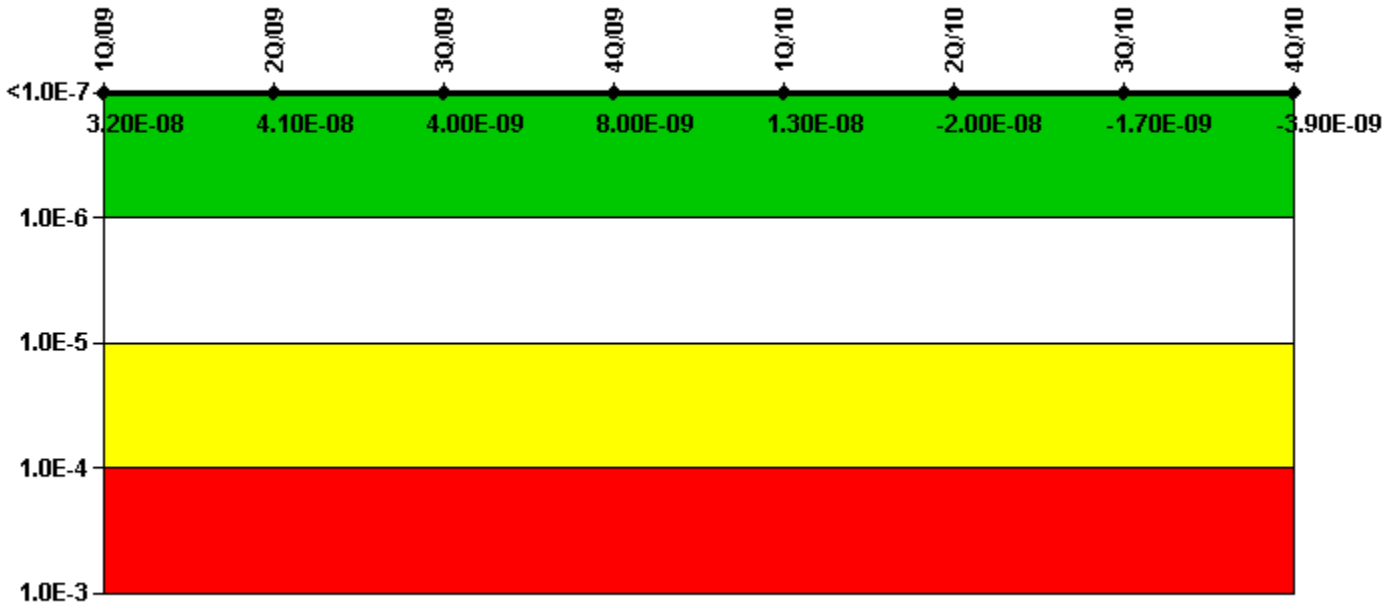
Thresholds: White > 5.0

### Notes

Safety System Functional Failures (PWR)	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Safety System Functional Failures	1	0	0	1	2	0	0	1
Indicator value	3	1	1	2	3	3	3	3

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



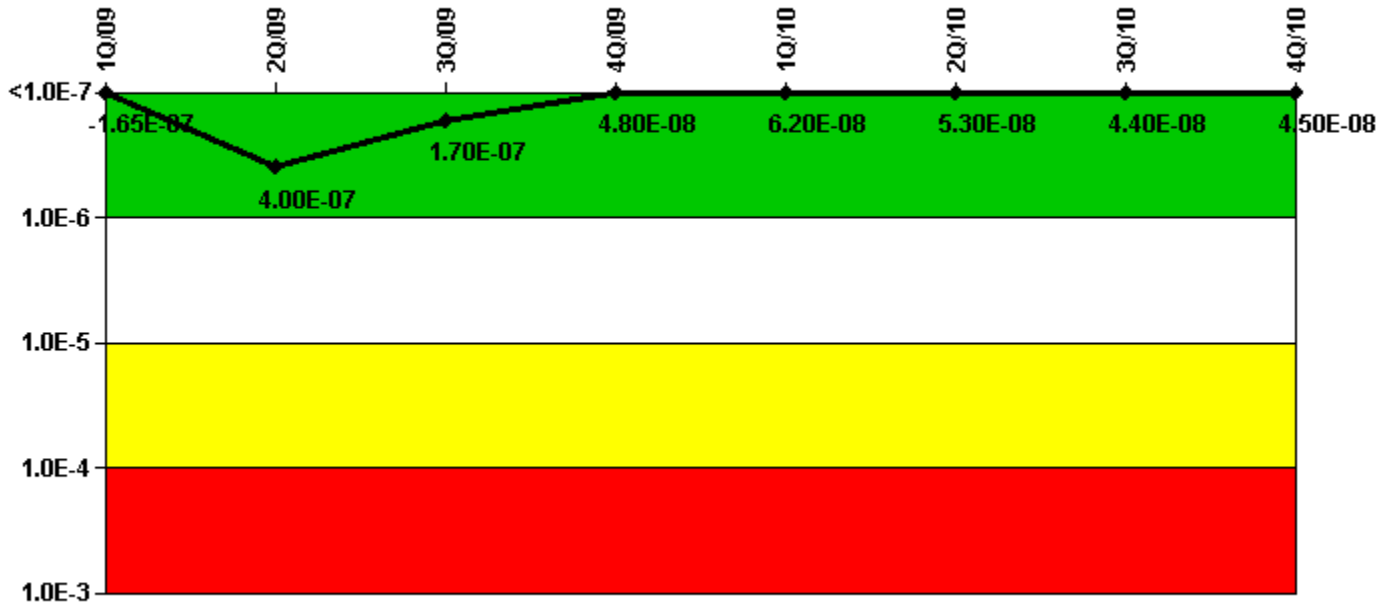
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI ( $\Delta$ CDF)	2.10E-08	3.00E-08	3.10E-08	3.40E-08	3.89E-08	3.42E-08	3.68E-08	3.46E-08
URI ( $\Delta$ CDF)	1.10E-08	1.10E-08	-2.70E-08	-2.60E-08	-2.55E-08	-5.39E-08	-3.85E-08	-3.85E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.20E-08	4.10E-08	4.00E-09	8.00E-09	1.30E-08	-2.00E-08	-1.70E-09	-3.90E-09

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	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI ( $\Delta$ CDF)	-2.50E-08	5.40E-07	3.10E-07	9.90E-08	1.13E-07	1.07E-07	9.77E-08	9.91E-08
URI ( $\Delta$ CDF)	-1.40E-07	-1.40E-07	-1.40E-07	-5.10E-08	-5.04E-08	-5.43E-08	-5.41E-08	-5.41E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.65E-07	4.00E-07	1.70E-07	4.80E-08	6.20E-08	5.30E-08	4.40E-08	4.50E-08

Licensee Comments: none

# Mitigating Systems Performance Index, Heat Removal System



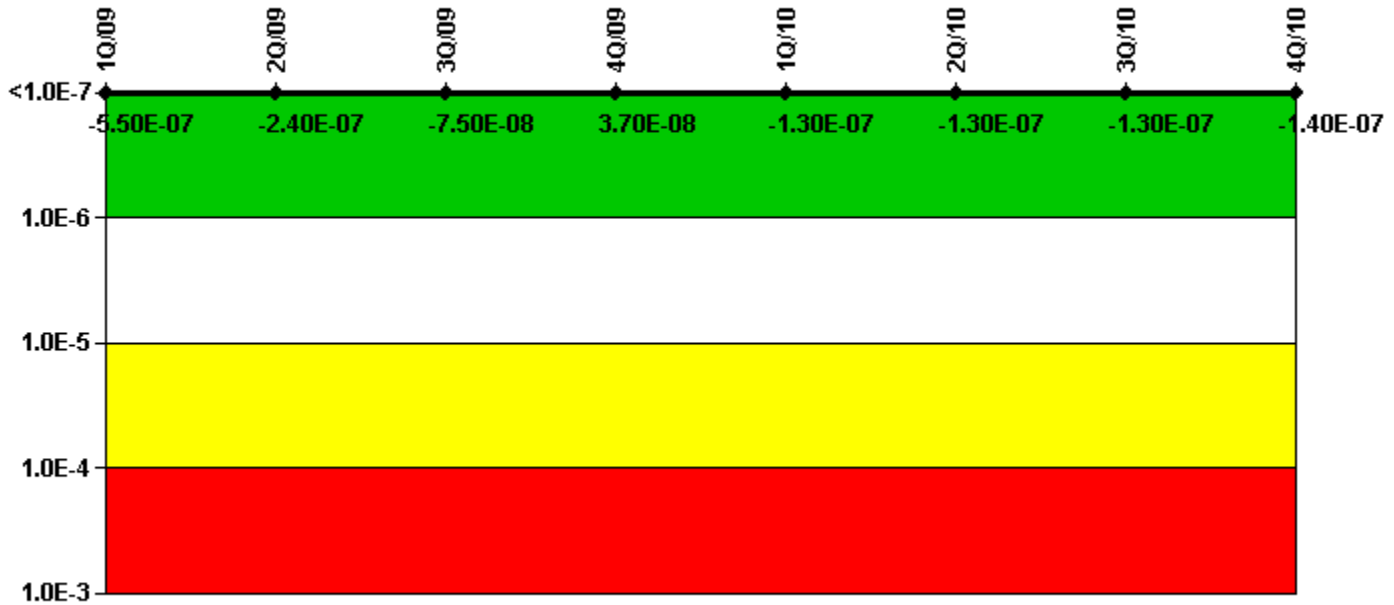
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI ( $\Delta$ CDF)	-2.70E-07	-2.70E-07	-2.20E-07	-2.00E-07	-1.54E-07	-1.54E-07	-1.45E-07	-1.37E-07
URI ( $\Delta$ CDF)	-5.70E-07	-5.70E-07	-6.00E-07	-5.60E-07	-4.74E-07	-4.66E-07	-4.03E-07	-4.03E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.40E-07	-8.40E-07	-8.20E-07	-7.60E-07	-6.30E-07	-6.20E-07	-5.50E-07	-5.40E-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

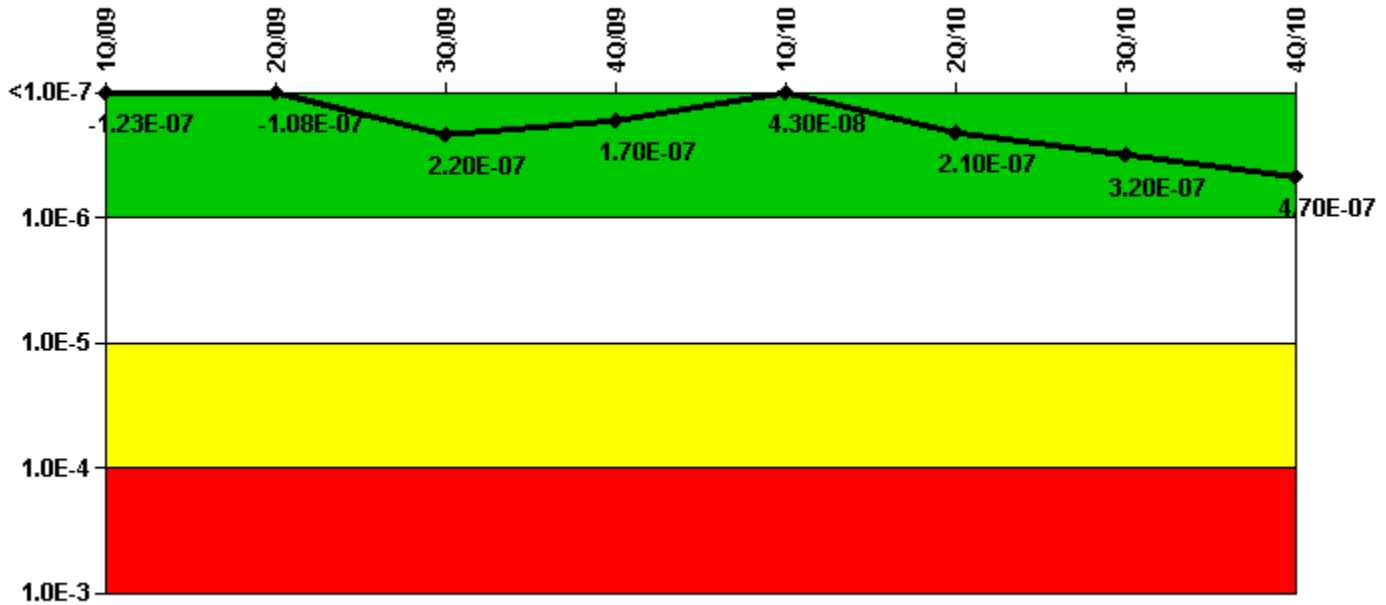
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI ( $\Delta$ CDF)	-4.40E-07	-1.30E-07	3.50E-08	6.30E-08	-1.09E-07	-1.09E-07	-1.07E-07	-1.12E-07
URI ( $\Delta$ CDF)	-1.10E-07	-1.10E-07	-1.10E-07	-2.60E-08	-2.51E-08	-2.51E-08	-2.50E-08	-2.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.50E-07	-2.40E-07	-7.50E-08	3.70E-08	-1.30E-07	-1.30E-07	-1.30E-07	-1.40E-07

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



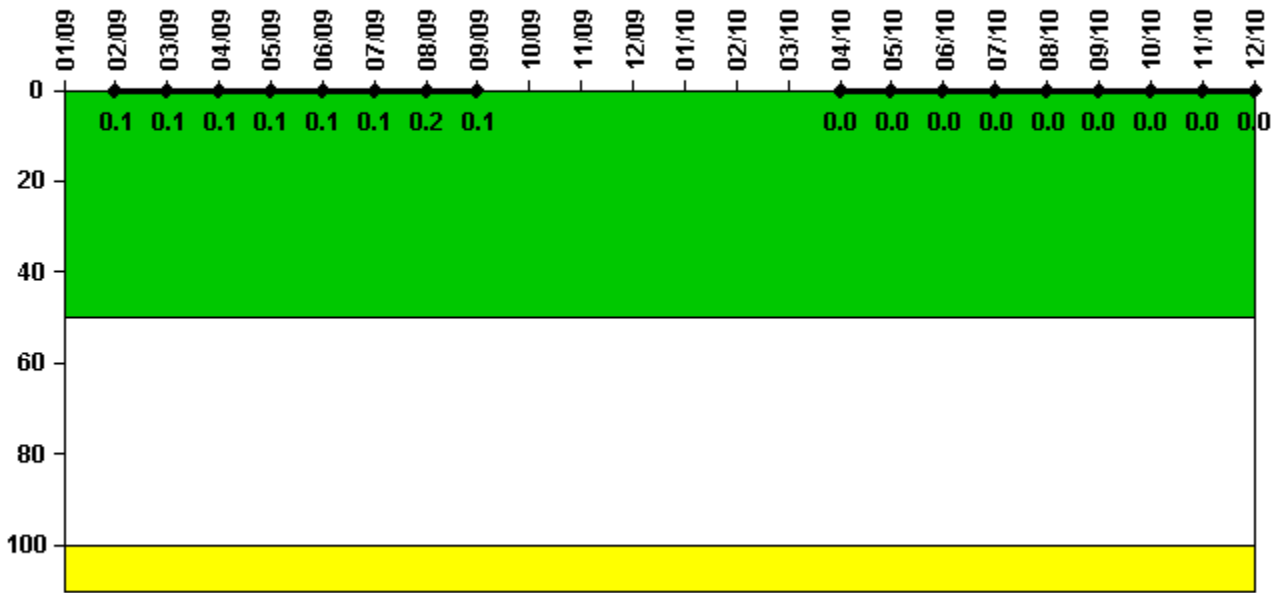
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI ( $\Delta$ CDF)	$3.70E-08$	$5.20E-08$	$3.80E-07$	$2.90E-07$	$1.63E-07$	$3.26E-07$	$4.38E-07$	$5.93E-07$
URI ( $\Delta$ CDF)	$-1.60E-07$	$-1.60E-07$	$-1.60E-07$	$-1.20E-07$	$-1.20E-07$	$-1.20E-07$	$-1.19E-07$	$-1.19E-07$
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	$-1.23E-07$	$-1.08E-07$	$2.20E-07$	$1.70E-07$	$4.30E-08$	$2.10E-07$	$3.20E-07$	$4.70E-07$

Licensee Comments: none

# Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

## Notes

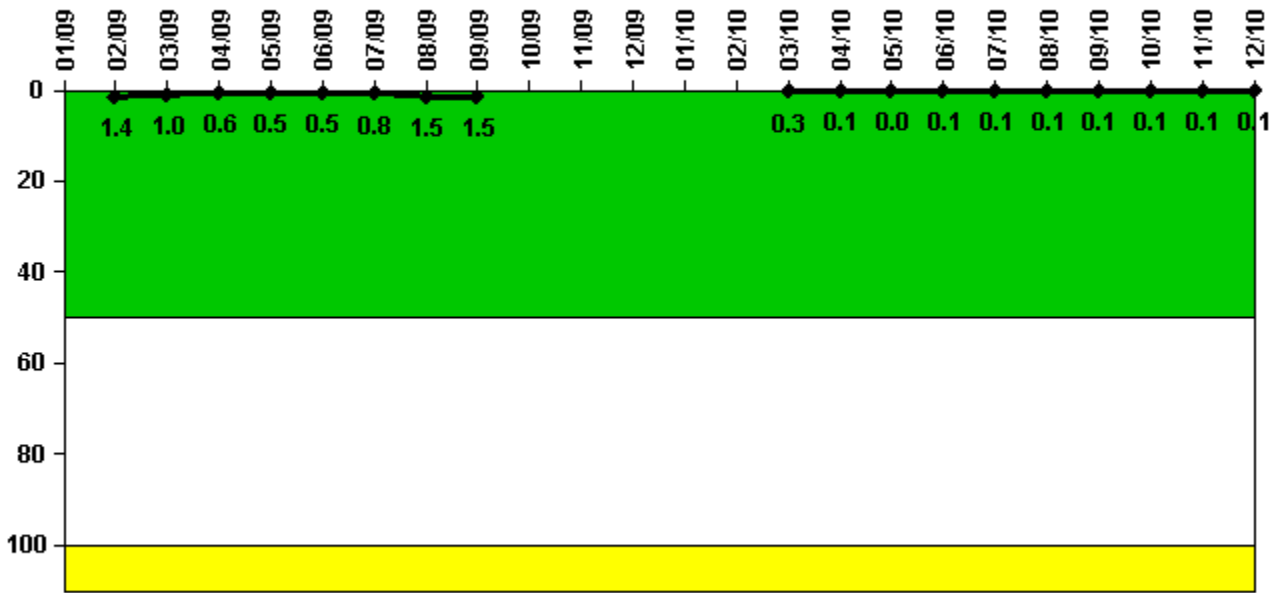
Reactor Coolant System Activity	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum activity	N/A	0.000655	0.000748	0.001260	0.001290	0.001330	0.001300	0.001530	0.001420	N/A	N/A	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	N/A	N/A	N/A

Reactor Coolant System Activity	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum activity	N/A	N/A	N/A	0.000112	0.000110	0.000301	0.000291	0.000266	0.000280	0.000317	0.000306	0.000335
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	0	0	0	0	0	0	0	0	0

Licensee Comments: none

## Reactor Coolant System Leakage



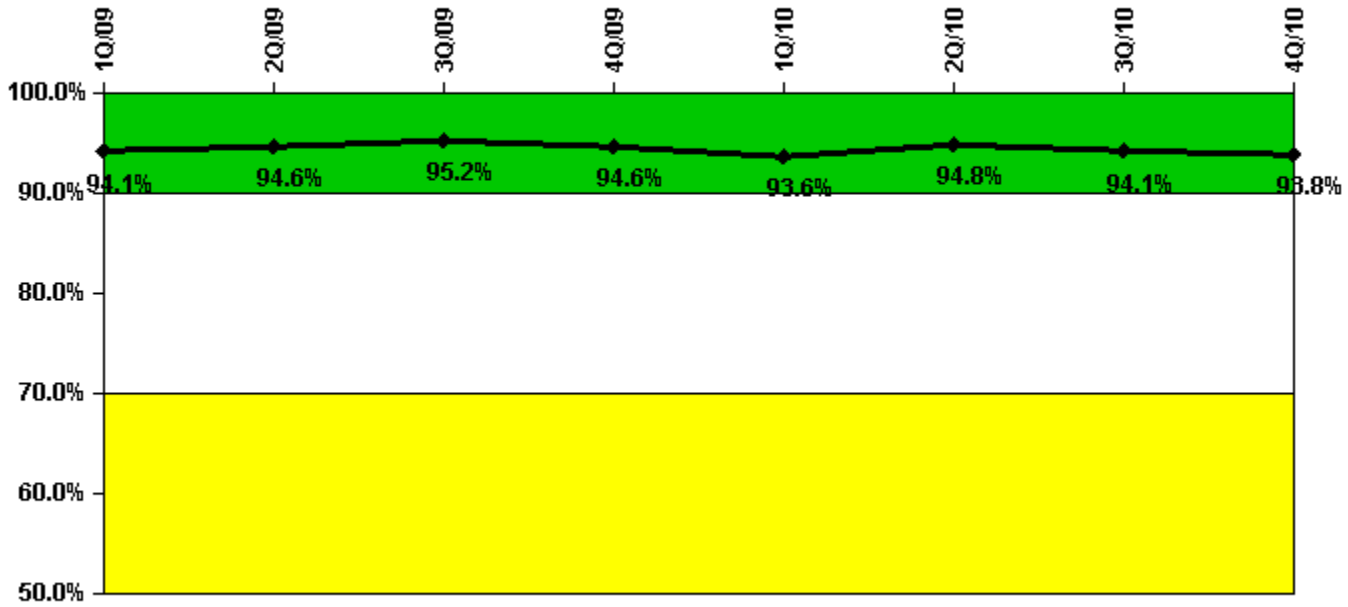
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum leakage	N/A	0.140	0.100	0.060	0.050	0.050	0.080	0.150	0.150	N/A	N/A	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	N/A	1.4	1.0	0.6	0.5	0.5	0.8	1.5	1.5	N/A	N/A	N/A
Reactor Coolant System Leakage	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10
Maximum leakage	N/A	N/A	0.030	0.010	0	0.010	0.010	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	N/A	N/A	0.3	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1

Licensee Comments: none

## Drill/Exercise Performance



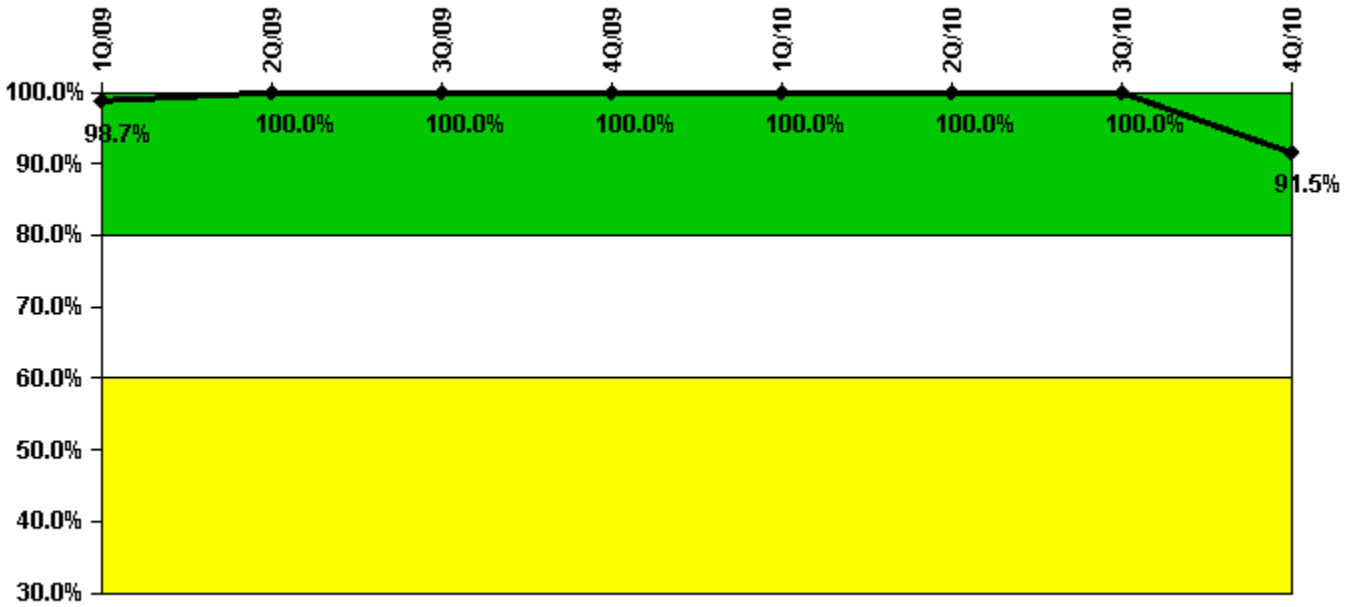
Thresholds: White < 90.0% Yellow < 70.0%

### Notes

Drill/Exercise Performance	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful opportunities	15.0	89.0	33.0	24.0	11.0	52.0	50.0	0
Total opportunities	15.0	93.0	38.0	24.0	15.0	52.0	55.0	0
Indicator value	94.1%	94.6%	95.2%	94.6%	93.6%	94.8%	94.1%	93.8%

Licensee Comments: none

## ERO Drill Participation



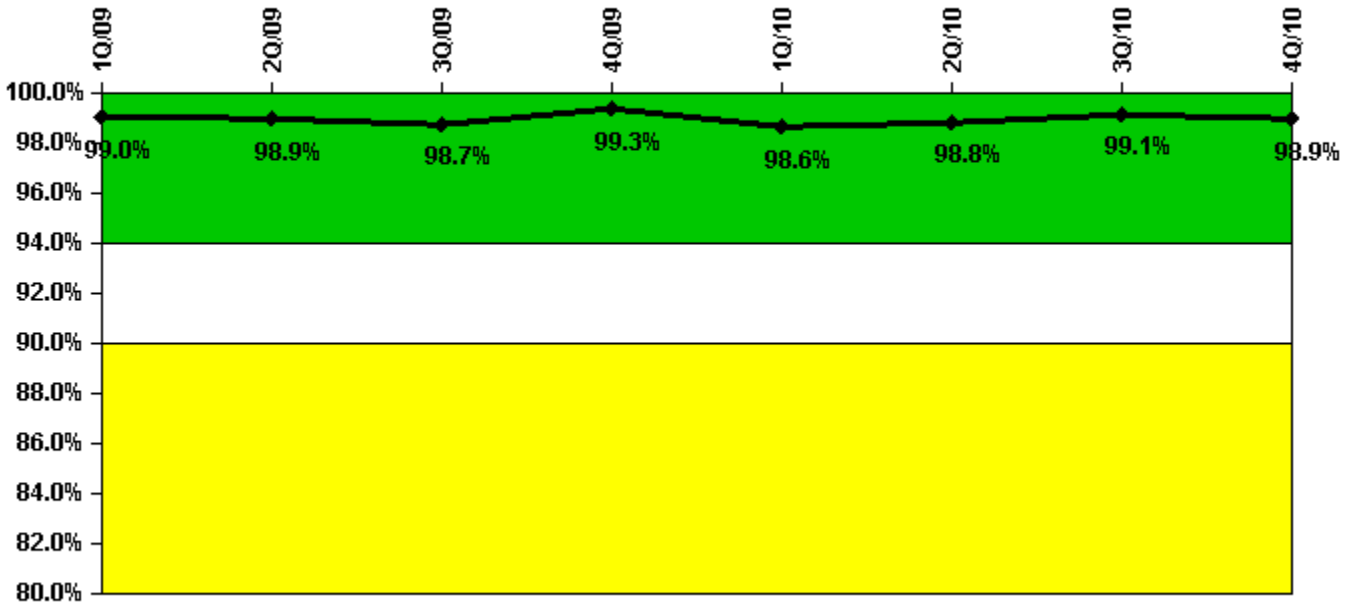
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Participating Key personnel	76.0	74.0	74.0	79.0	72.0	74.0	65.0	65.0
Total Key personnel	77.0	74.0	74.0	79.0	72.0	74.0	65.0	71.0
Indicator value	98.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	91.5%

Licensee Comments: none

# Alert & Notification System



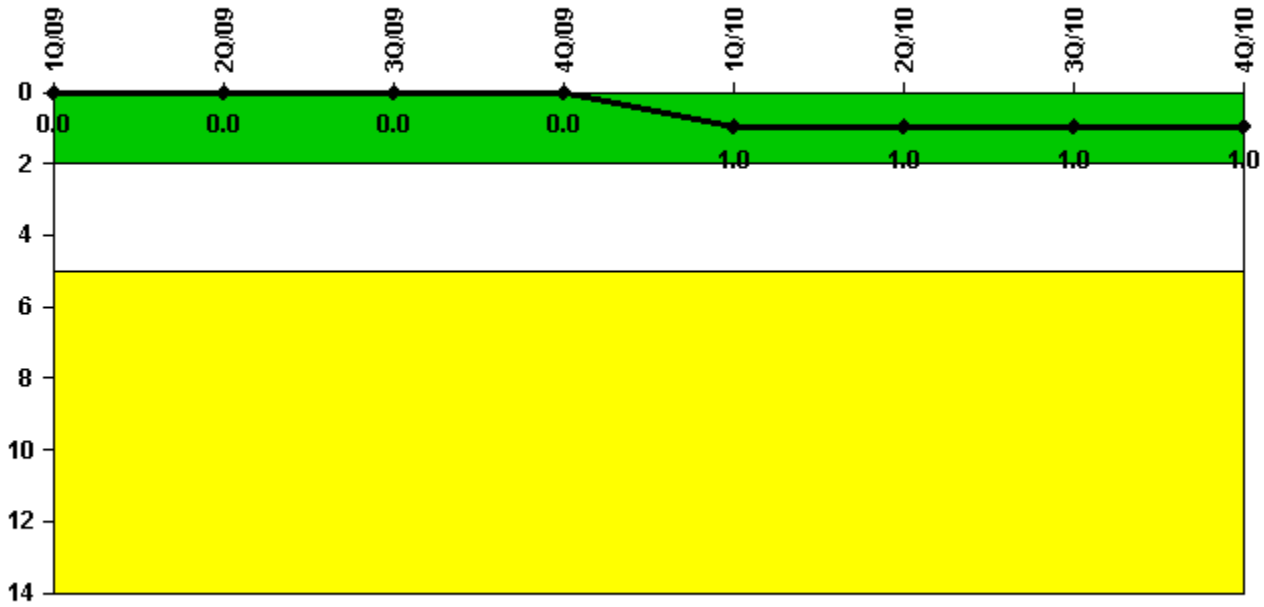
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful siren-tests	415	360	359	519	350	405	399	447
Total sirens-tests	416	364	364	520	362	406	400	450
Indicator value	99.0%	98.9%	98.7%	99.3%	98.6%	98.8%	99.1%	98.9%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



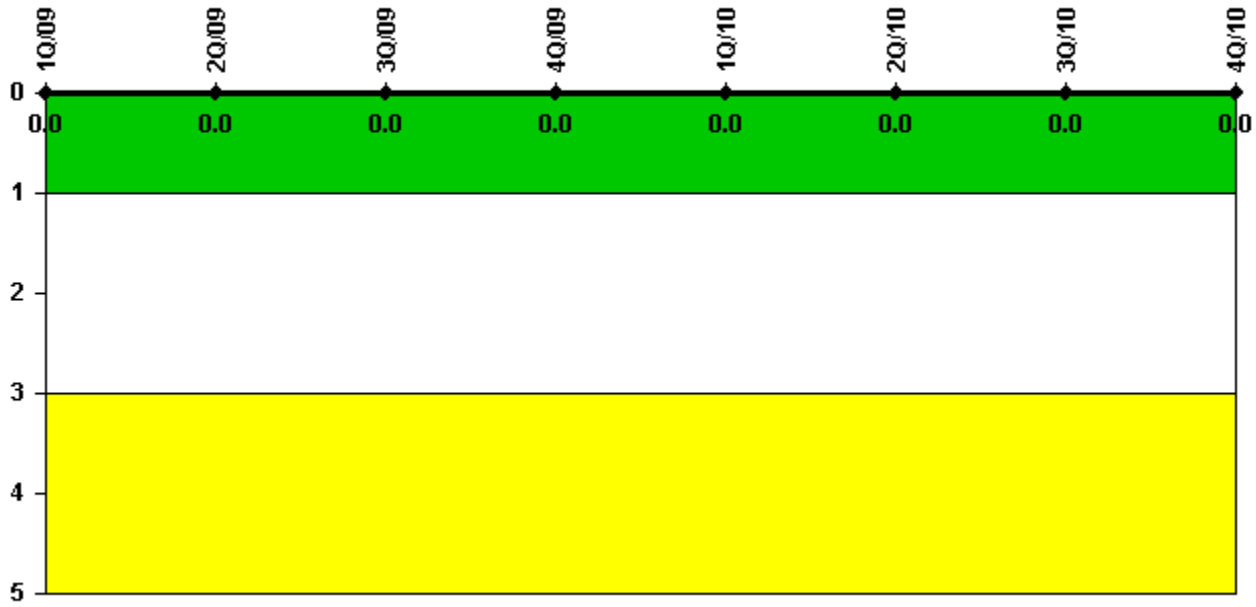
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
High radiation area occurrences	0	0	0	0	1	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>1</b>	<b>1</b>	<b>1</b>	<b>1</b>

Licensee Comments: none

# RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

## Notes

RETS/ODCM Radiological Effluent	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
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.