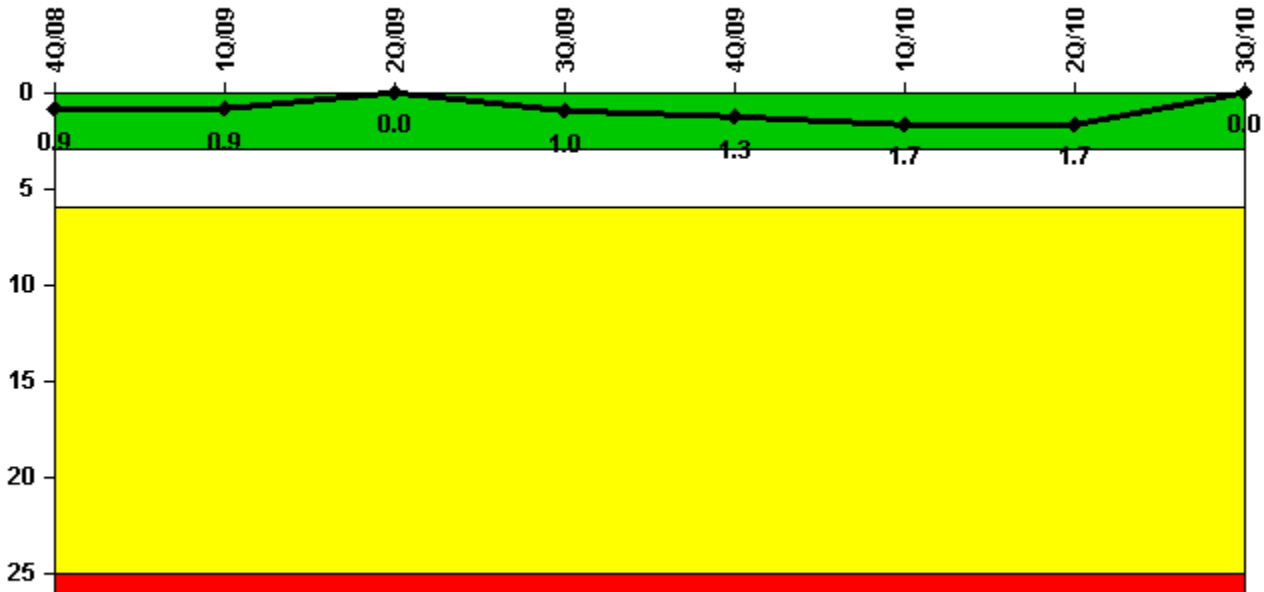


# San Onofre 2

## 3Q/2010 Performance Indicators

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

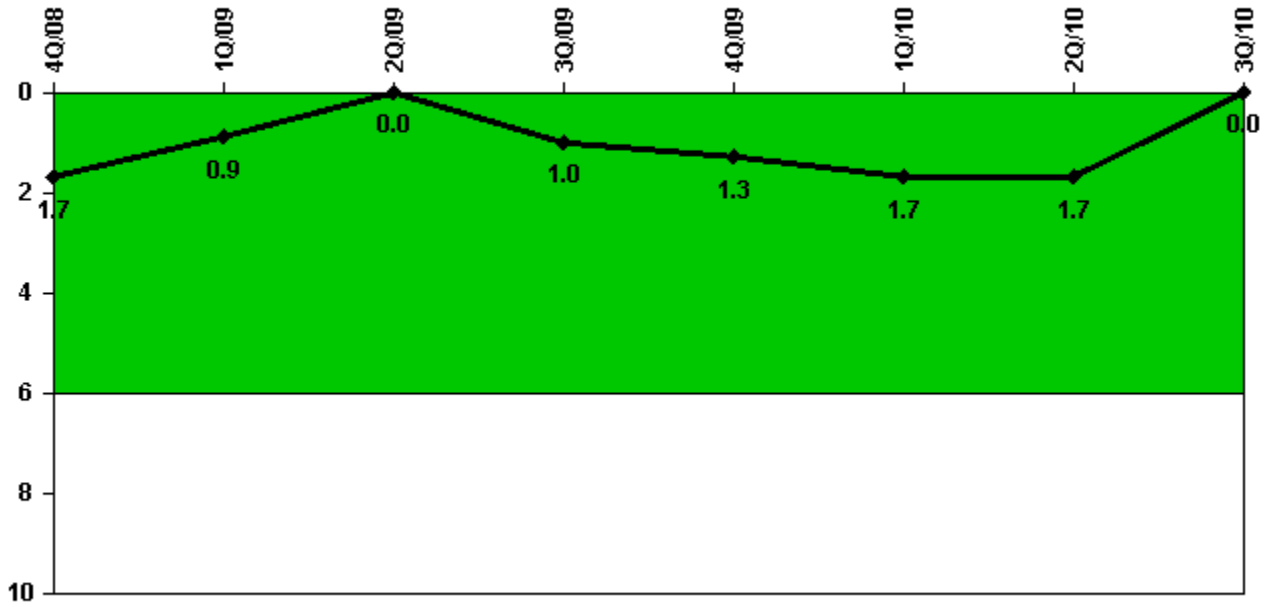
### Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2113.7	1007.7	2184.0	2052.4	0	0	2003.8	2208.0
Indicator value	0.9	0.9	0	1.0	1.3	1.7	1.7	0

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	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2113.7	1007.7	2184.0	2052.4	0	0	2003.8	2208.0
Indicator value	1.7	0.9	0	1.0	1.3	1.7	1.7	0

Licensee Comments: none

## Unplanned Scrams with Complications



Thresholds: White > 1.0

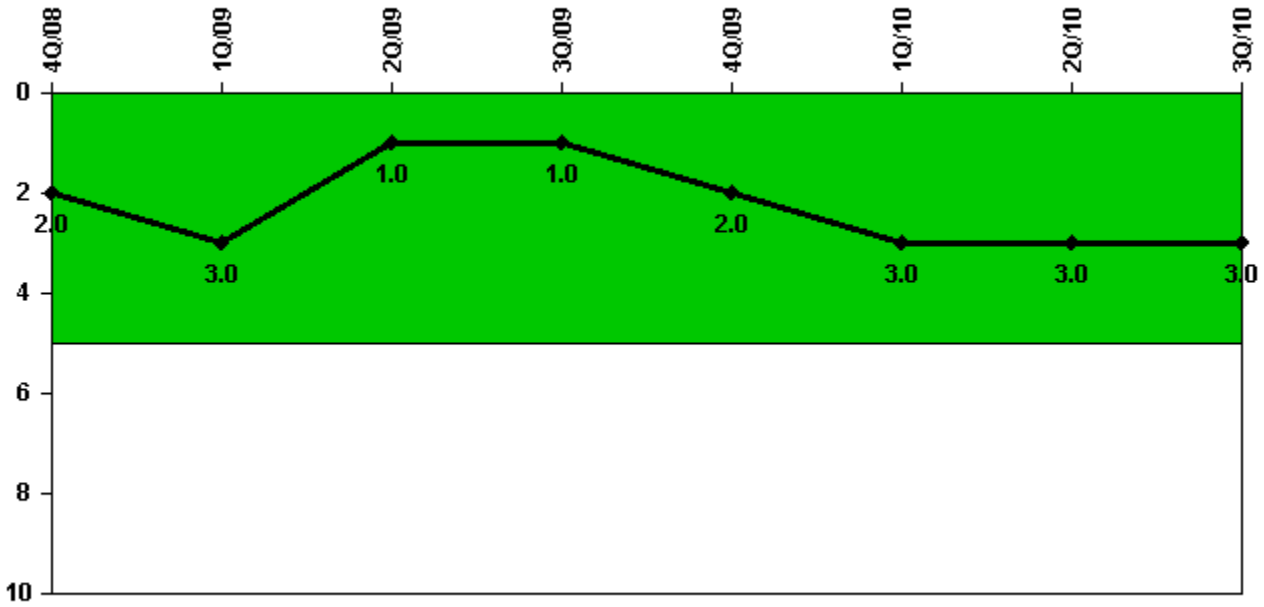
### Notes

Unplanned Scrams with Complications	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/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)



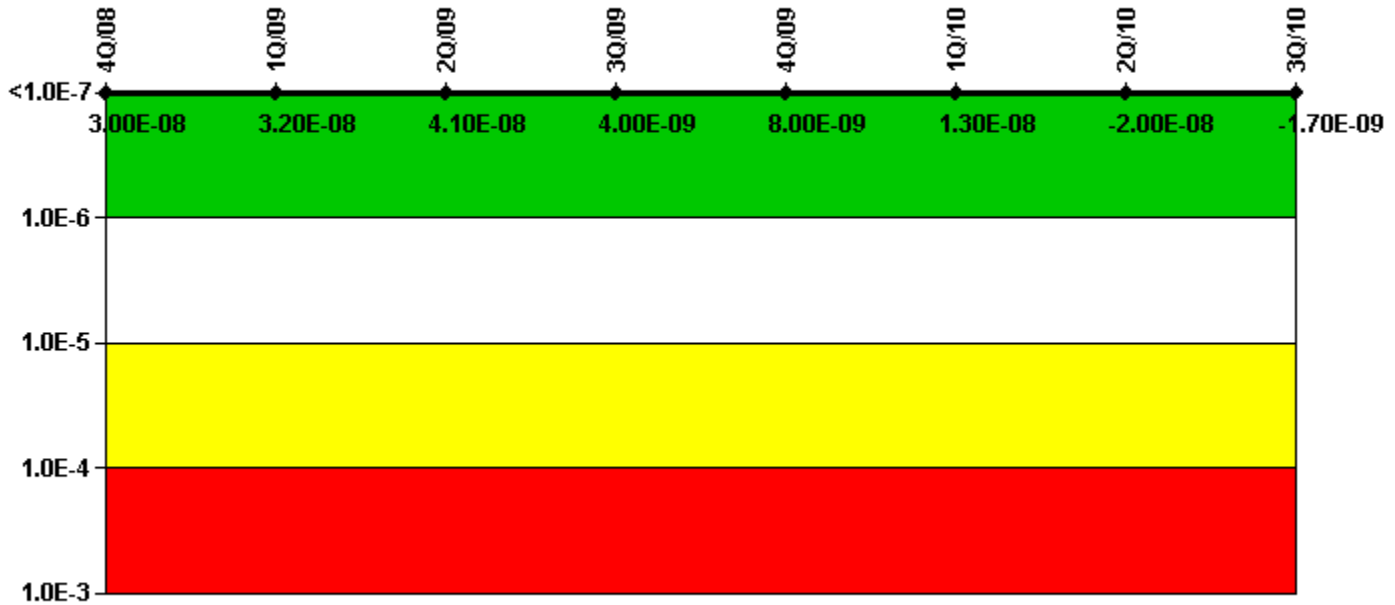
Thresholds: White > 5.0

### Notes

Safety System Functional Failures (PWR)	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Safety System Functional Failures	0	1	0	0	1	2	0	0
Indicator value	2	3	1	1	2	3	3	3

Licensee Comments: none

# Mitigating Systems Performance Index, Emergency AC Power System



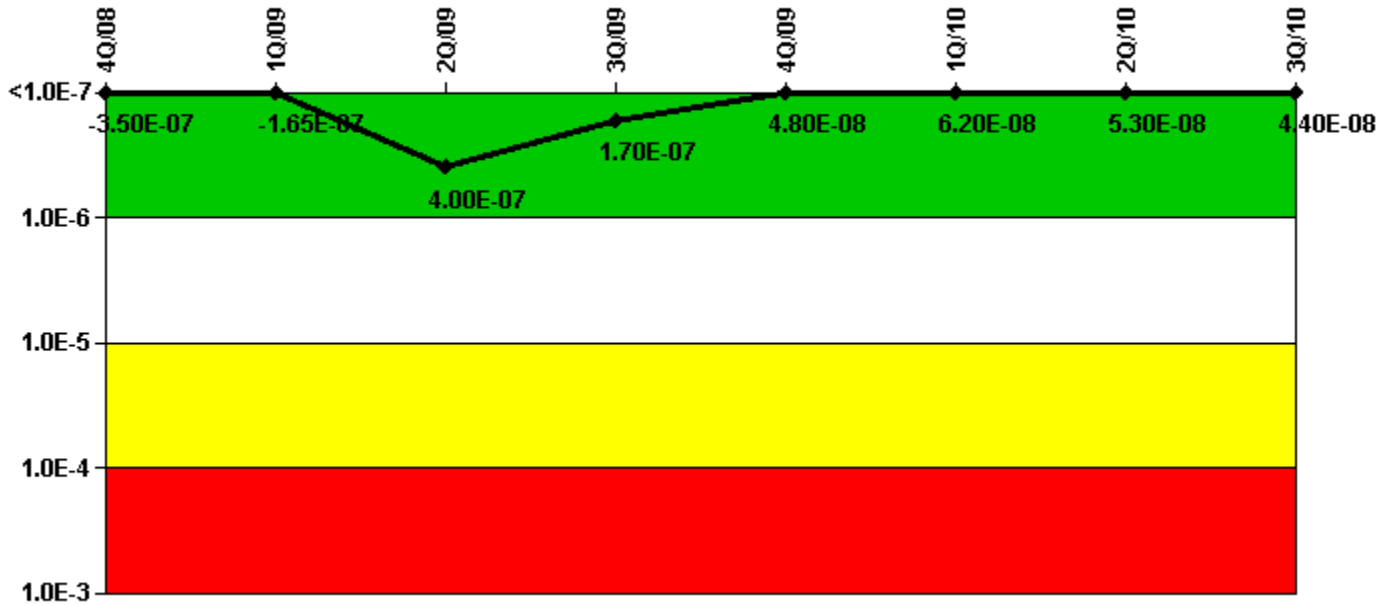
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI ( $\Delta$ CDF)	1.90E-08	2.10E-08	3.00E-08	3.10E-08	3.40E-08	3.89E-08	3.42E-08	3.68E-08
URI ( $\Delta$ CDF)	1.10E-08	1.10E-08	1.10E-08	-2.70E-08	-2.60E-08	-2.55E-08	-5.39E-08	-3.85E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.00E-08	3.20E-08	4.10E-08	4.00E-09	8.00E-09	1.30E-08	-2.00E-08	-1.70E-09

Licensee Comments: none

# Mitigating Systems Performance Index, High Pressure Injection System



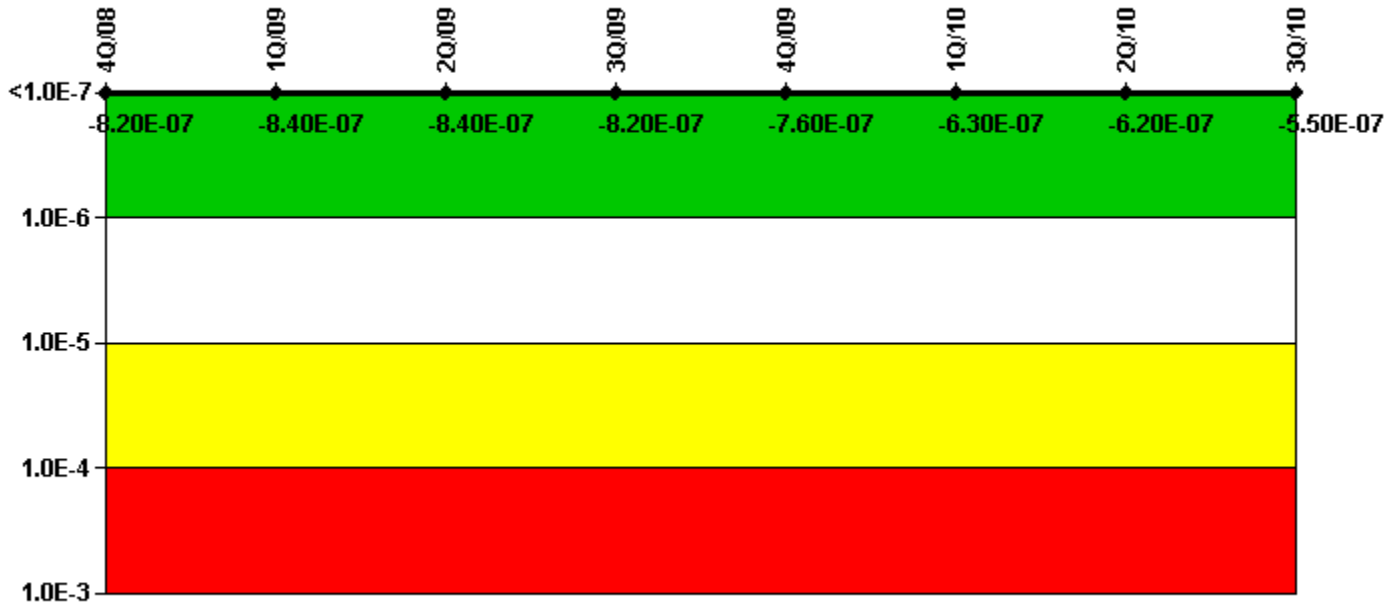
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

## Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI ( $\Delta$ CDF)	-2.10E-07	-2.50E-08	5.40E-07	3.10E-07	9.90E-08	1.13E-07	1.07E-07	9.77E-08
URI ( $\Delta$ CDF)	-1.40E-07	-1.40E-07	-1.40E-07	-1.40E-07	-5.10E-08	-5.04E-08	-5.43E-08	-5.41E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.50E-07	-1.65E-07	4.00E-07	1.70E-07	4.80E-08	6.20E-08	5.30E-08	4.40E-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	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI ( $\Delta$ CDF)	-2.50E-07	-2.70E-07	-2.70E-07	-2.20E-07	-2.00E-07	-1.54E-07	-1.54E-07	-1.45E-07
URI ( $\Delta$ CDF)	-5.70E-07	-5.70E-07	-5.70E-07	-6.00E-07	-5.60E-07	-4.74E-07	-4.66E-07	-4.03E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-8.20E-07	-8.40E-07	-8.40E-07	-8.20E-07	-7.60E-07	-6.30E-07	-6.20E-07	-5.50E-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

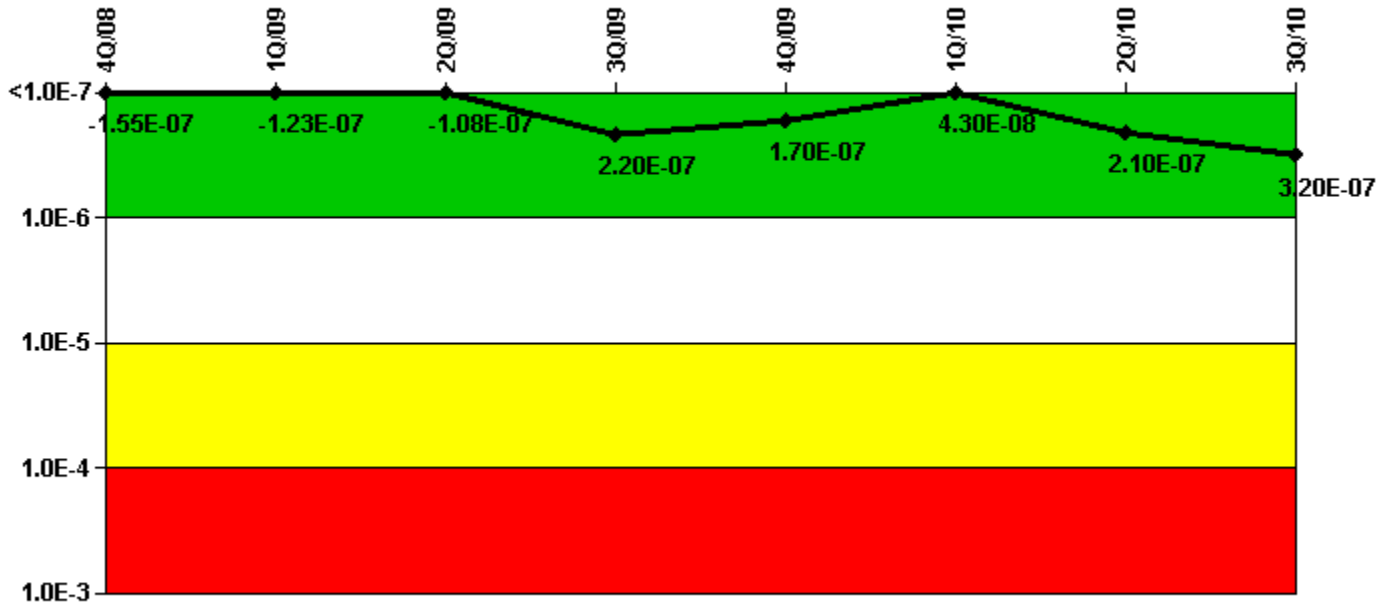
## Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI ( $\Delta$ CDF)	-3.70E-07	-4.40E-07	-1.30E-07	3.50E-08	6.30E-08	-1.09E-07	-1.09E-07	-1.07E-07
URI ( $\Delta$ CDF)	-1.10E-07	-1.10E-07	-1.10E-07	-1.10E-07	-2.60E-08	-2.51E-08	-2.51E-08	-2.50E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.80E-07	-5.50E-07	-2.40E-07	-7.50E-08	3.70E-08	-1.30E-07	-1.30E-07	-1.30E-07

Licensee Comments: none



# Mitigating Systems Performance Index, Cooling Water Systems



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

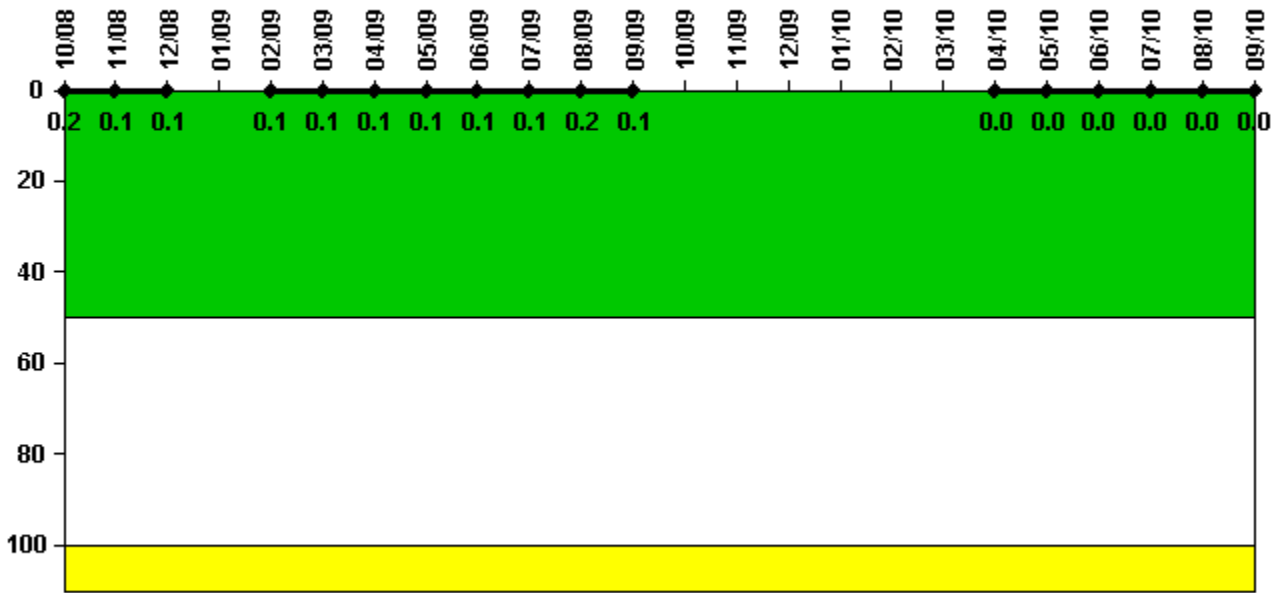
## Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	4.70E-09	3.70E-08	5.20E-08	3.80E-07	2.90E-07	1.63E-07	3.26E-07	4.38E-07
URI (ΔCDF)	-1.60E-07	-1.60E-07	-1.60E-07	-1.60E-07	-1.20E-07	-1.20E-07	-1.20E-07	-1.19E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.55E-07	-1.23E-07	-1.08E-07	2.20E-07	1.70E-07	4.30E-08	2.10E-07	3.20E-07

Licensee Comments:

3Q/10: Three hours of unavailability time added for June 2010 for CCW HX inoperability due to fouling. (NN 200950125)

# Reactor Coolant System Activity



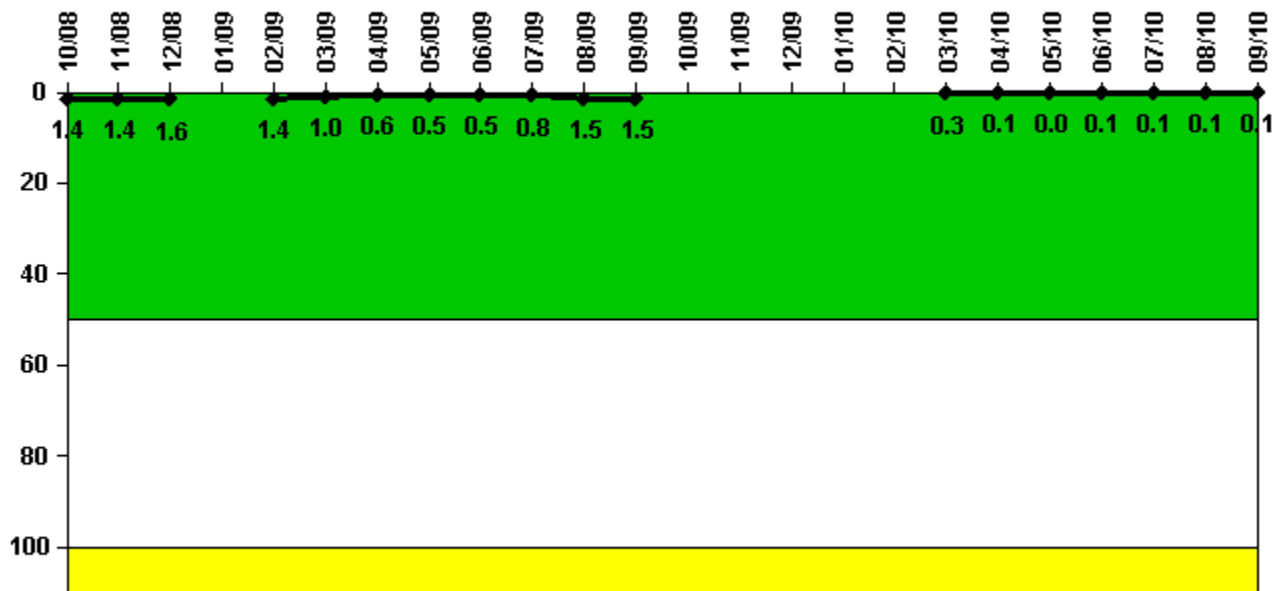
Thresholds: White > 50.0 Yellow > 100.0

## Notes

Reactor Coolant System Activity	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum activity	0.001550	0.001260	0.001320	N/A	0.000655	0.000748	0.001260	0.001290	0.001330	0.001300	0.001530	0.001420
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	0.1	0.1	N/A	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
Reactor Coolant System Activity	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum activity	N/A	N/A	N/A	N/A	N/A	N/A	0.000112	0.000110	0.000301	0.000291	0.000266	0.000280
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	N/A	N/A	0	0	0	0	0	0

Licensee Comments: none

## Reactor Coolant System Leakage



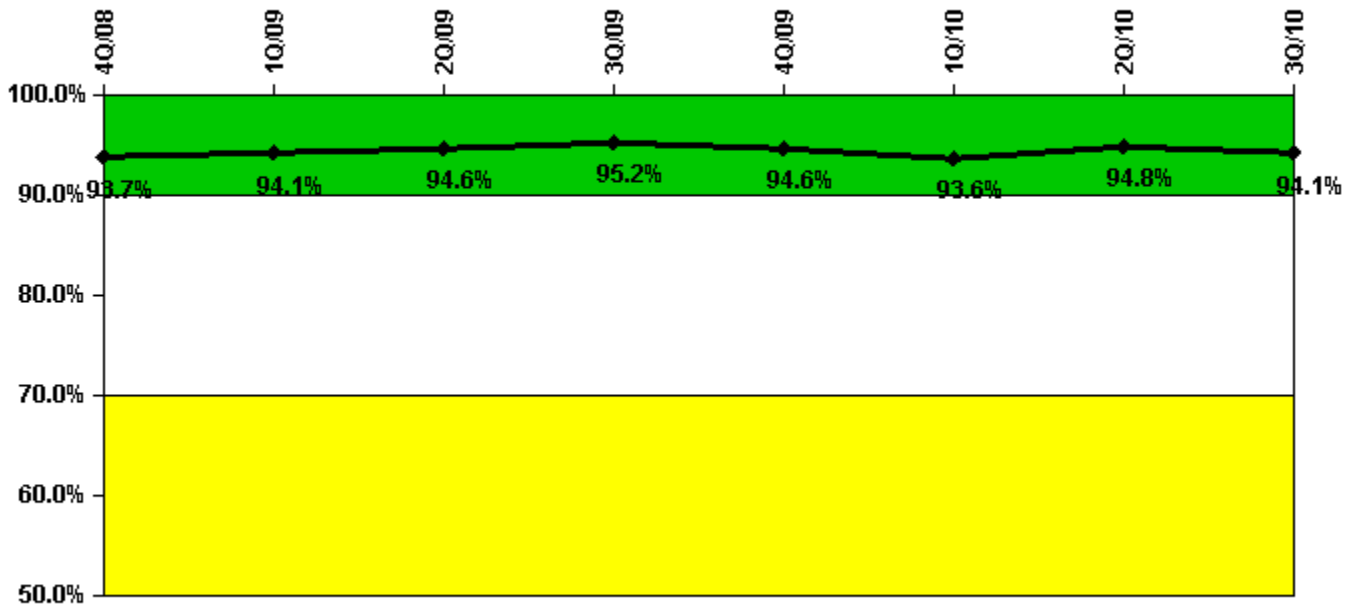
Thresholds: White > 50.0 Yellow > 100.0

### Notes

Reactor Coolant System Leakage	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09
Maximum leakage	0.140	0.140	0.160	N/A	0.140	0.100	0.060	0.050	0.050	0.080	0.150	0.150
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	1.4	1.6	N/A	1.4	1.0	0.6	0.5	0.5	0.8	1.5	1.5
Reactor Coolant System Leakage	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10
Maximum leakage	N/A	N/A	N/A	N/A	N/A	0.030	0.010	0	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	N/A	N/A	N/A	0.3	0.1	0	0.1	0.1	0.1	0.1

Licensee Comments: none

## Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

### Notes

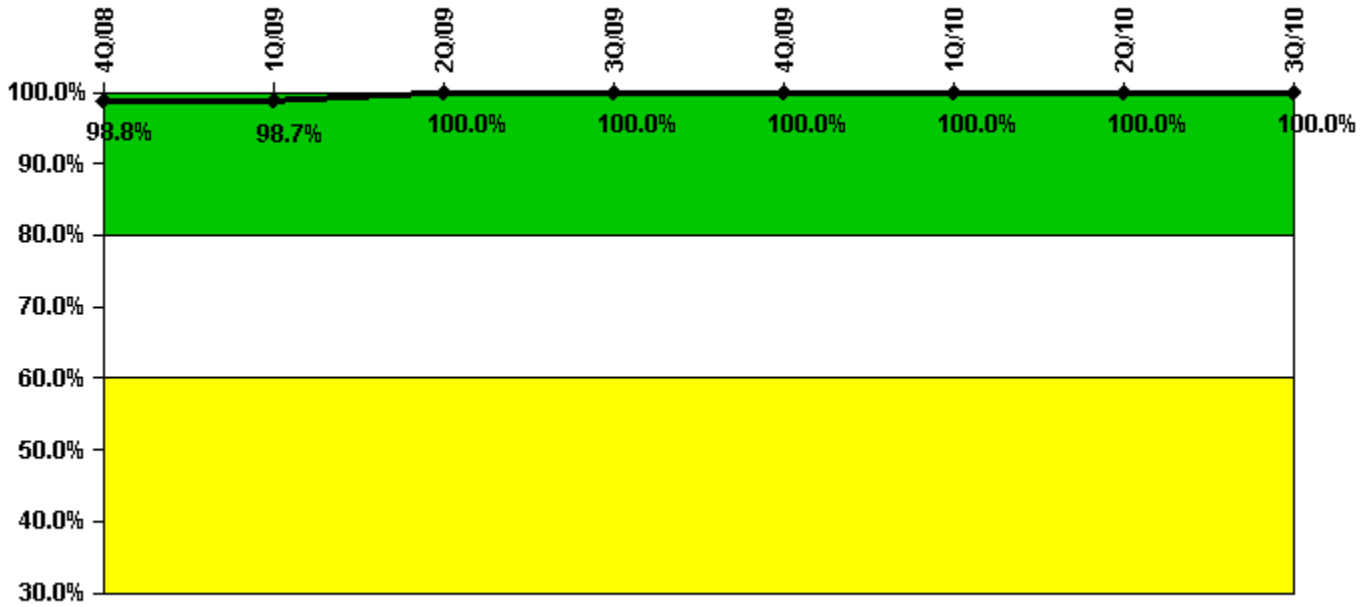
Drill/Exercise Performance	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful opportunities	60.0	15.0	89.0	33.0	24.0	11.0	52.0	50.0
Total opportunities	63.0	15.0	93.0	38.0	24.0	15.0	52.0	55.0
Indicator value	93.7%	94.1%	94.6%	95.2%	94.6%	93.6%	94.8%	94.1%

Licensee Comments:

3Q/10: June 2010 Successful Opportunities changed from 31 to 30. Logs and forms produced by participants, normally retained as objective evidence (OE), were inadvertently discarded. Previous decision to allow instructor's evaluation to serve as OE was reversed following review of guidance documents and Industry peer review. (NN 20107004)

2Q/10: June 2010 Successful opportunities changed from 31 to 30. Logs and forms produced by participants, normally retained as objective evidence (OE), were inadvertently discarded. Previous decision to allow instructor's evaluation to serve as OE was reversed following review of guidance documents and Industry peer review. (NN 20107004)

# ERO Drill Participation



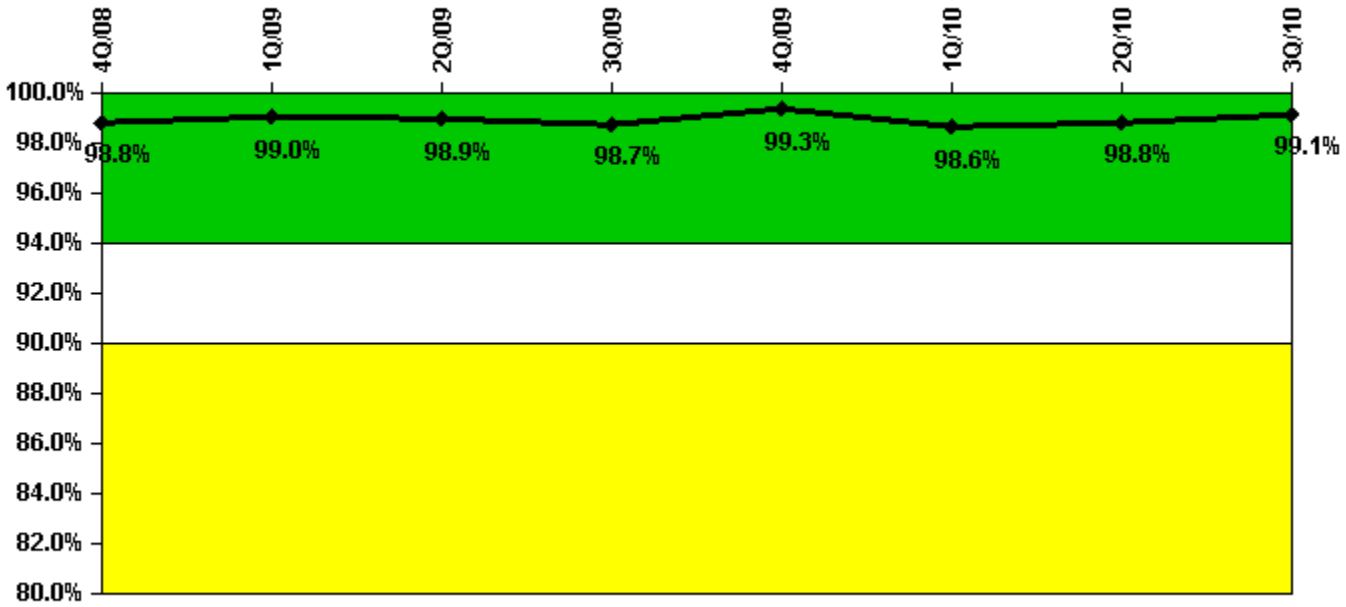
Thresholds: White < 80.0% Yellow < 60.0%

## Notes

ERO Drill Participation	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Participating Key personnel	80.0	76.0	74.0	74.0	79.0	72.0	74.0	65.0
Total Key personnel	81.0	77.0	74.0	74.0	79.0	72.0	74.0	65.0
Indicator value	98.8%	98.7%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

# Alert & Notification System



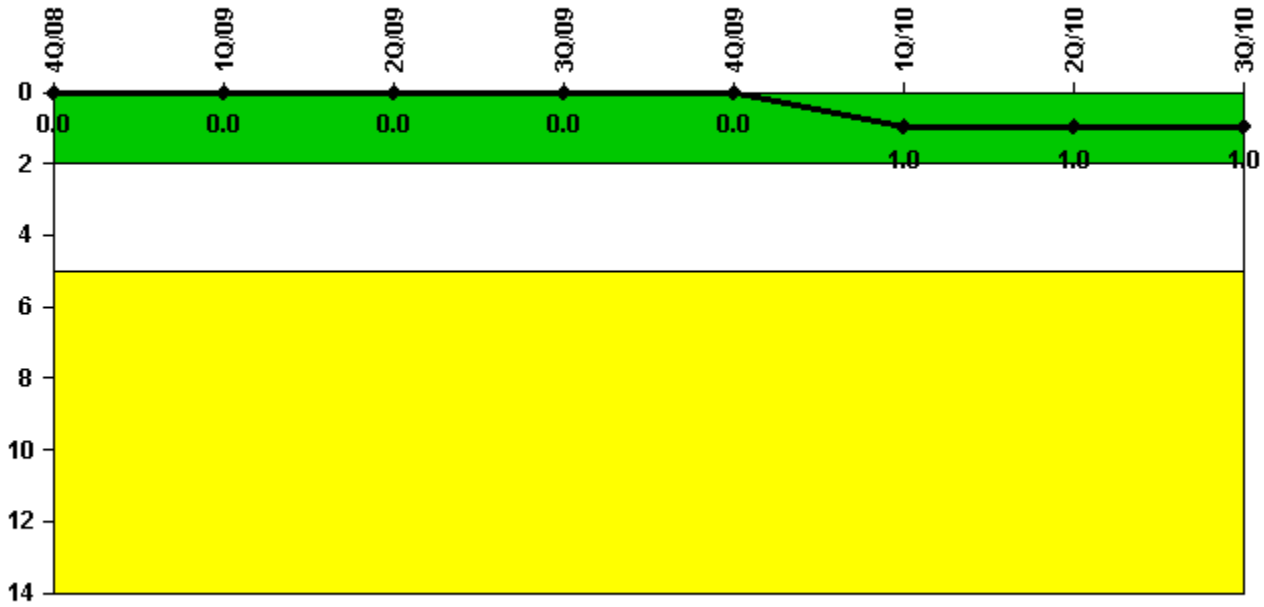
Thresholds: White < 94.0% Yellow < 90.0%

## Notes

Alert & Notification System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful siren-tests	457	415	360	359	519	350	405	399
Total sirens-tests	468	416	364	364	520	362	406	400
Indicator value	98.8%	99.0%	98.9%	98.7%	99.3%	98.6%	98.8%	99.1%

Licensee Comments: none

# Occupational Exposure Control Effectiveness



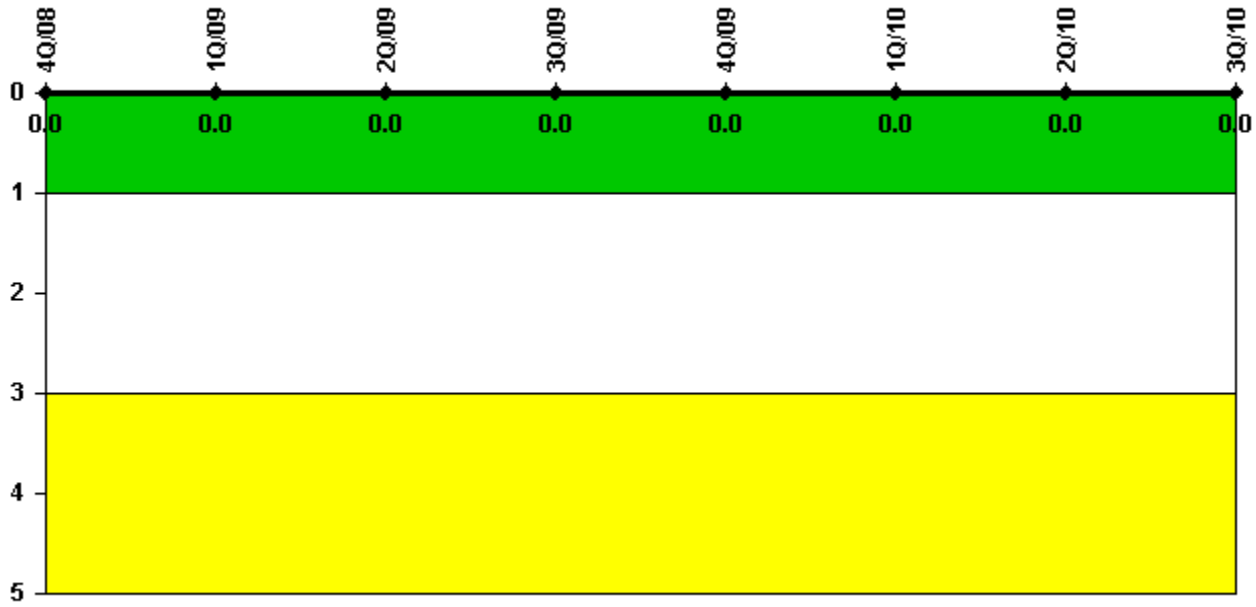
Thresholds: White > 2.0 Yellow > 5.0

## Notes

Occupational Exposure Control Effectiveness	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
High radiation area occurrences	0	0	0	0	0	1	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>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	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/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.