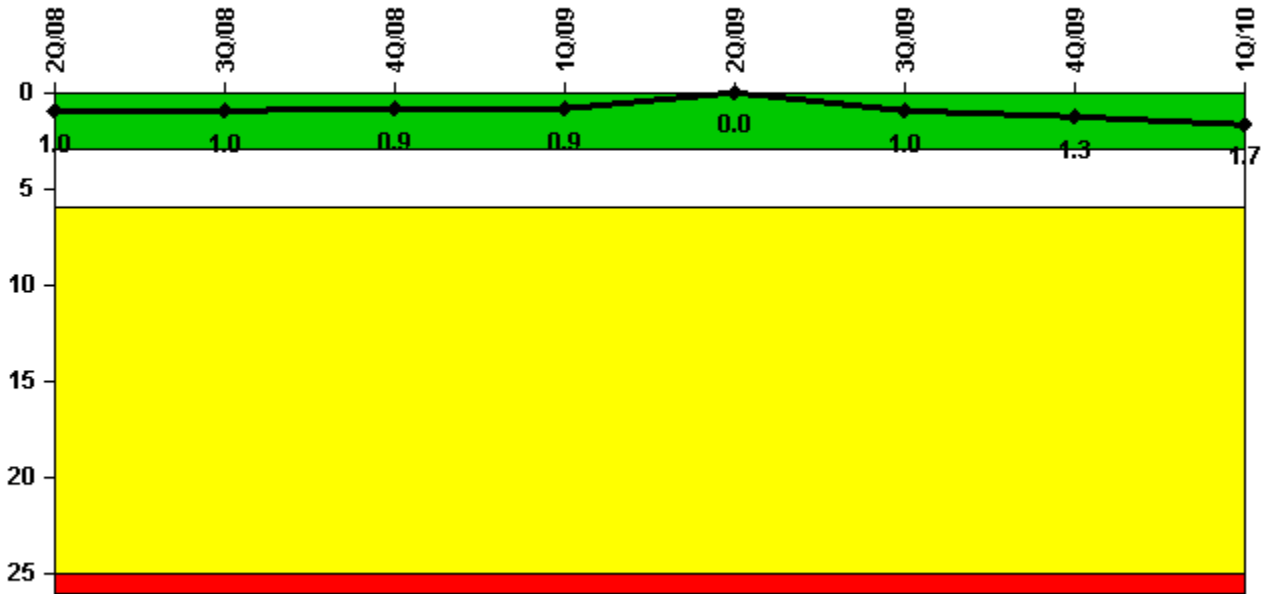


San Onofre 2

1Q/2010 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



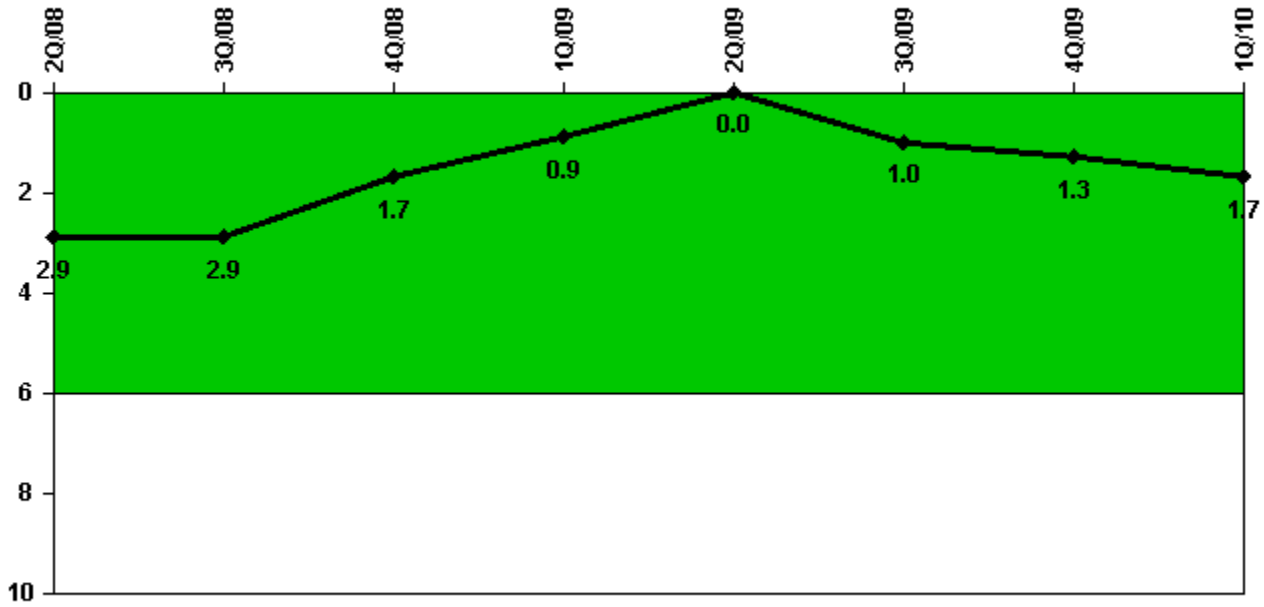
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned scrams	1.0	0	0	0	0	1.0	0	0
Critical hours	2051.2	2208.0	2113.7	1007.7	2184.0	2052.4	0	0
Indicator value	1.0	1.0	0.9	0.9	0	1.0	1.3	1.7

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	1.0	0	0	0	0	1.0	0	0
Critical hours	2051.2	2208.0	2113.7	1007.7	2184.0	2052.4	0	0
Indicator value	2.9	2.9	1.7	0.9	0	1.0	1.3	1.7

Licensee Comments: none

Unplanned Scrams with Complications



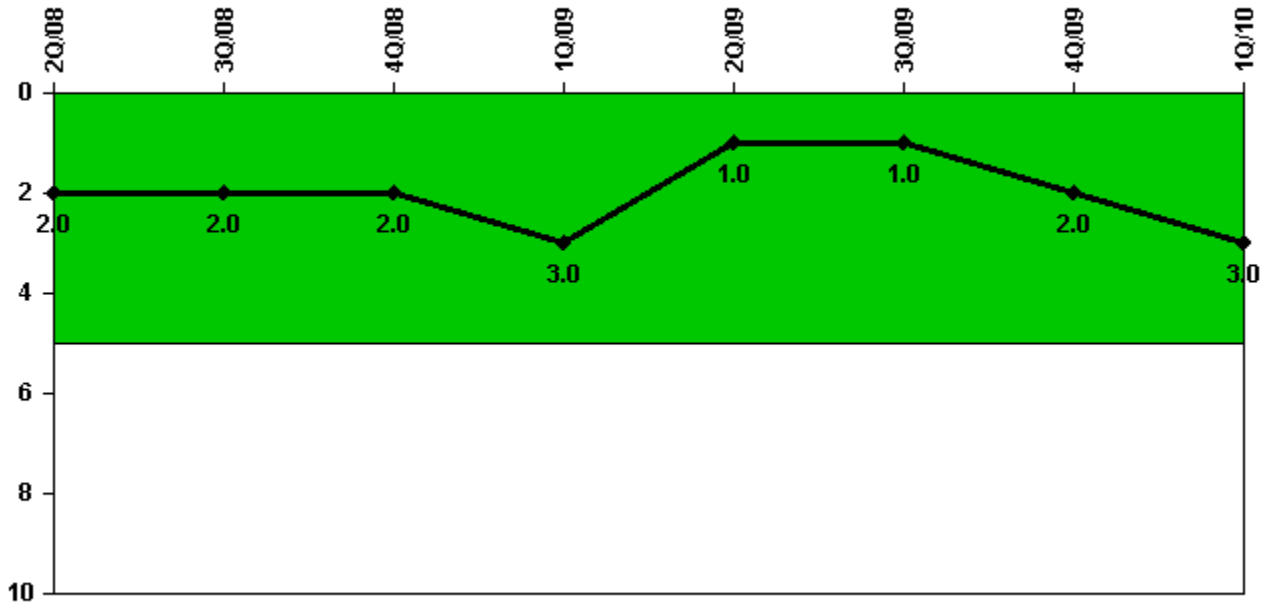
Thresholds: White > 1.0

Notes

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

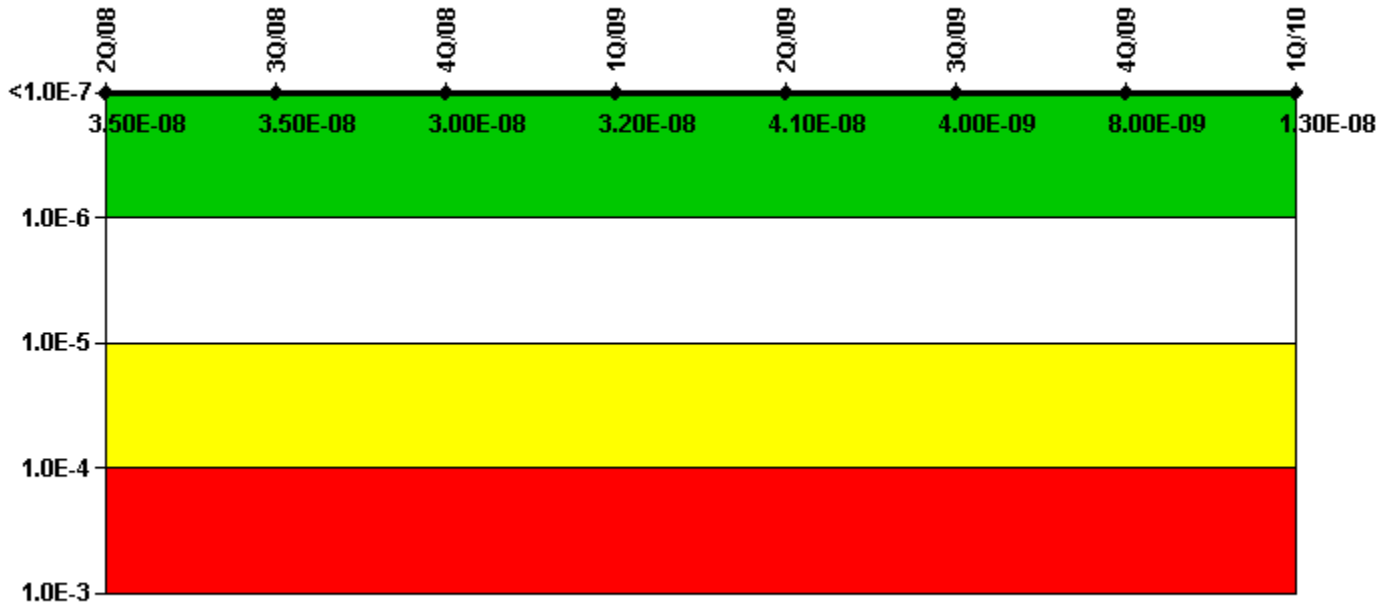
Safety System Functional Failures (PWR)	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Safety System Functional Failures	2	0	0	1	0	0	1	2
Indicator value	2	2	2	3	1	1	2	3

Licensee Comments:

1Q/10: LER 2-2007-007 submitted March 25, 2010, LER 2-2009-004 submitted February 19, 2010

2Q/08: LER 2-2008-002 submitted 6/6/08 and LER 2-2008-003 submitted 6/6/08

Mitigating Systems Performance Index, Emergency AC Power System



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

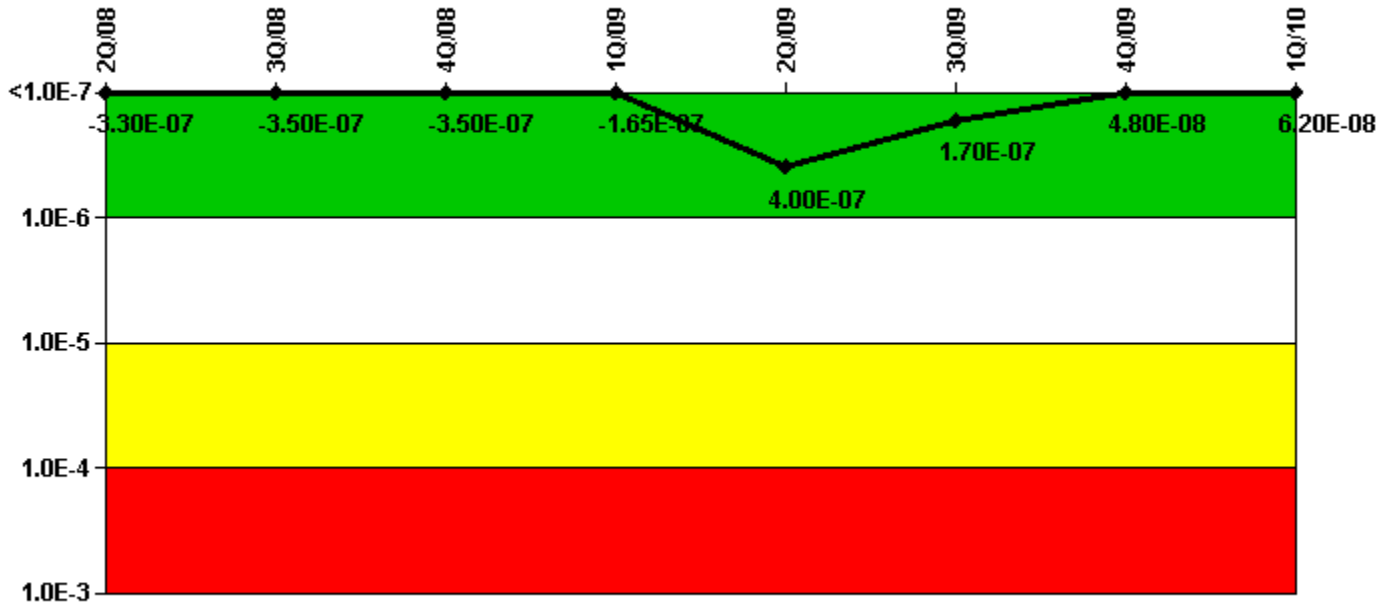
Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	2.20E-08	2.40E-08	1.90E-08	2.10E-08	3.00E-08	3.10E-08	3.40E-08	3.89E-08
URI (Δ CDF)	1.30E-08	1.10E-08	1.10E-08	1.10E-08	1.10E-08	-2.70E-08	-2.60E-08	-2.55E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.50E-08	3.50E-08	3.00E-08	3.20E-08	4.10E-08	4.00E-09	8.00E-09	1.30E-08

Licensee Comments:

1Q/10: PRA coefficients were changed for 1Q10 to be consistent with the plant model of record (PRA-09-015). During the fourth quarter of 2009, the 1E battery failure rates were restored to their nominal values after the satisfactory completion of all missed surveillance tests. This contributed to a slight decrease in EDG system Birnbaum values (reduced up to 2%).

Mitigating Systems Performance Index, High Pressure Injection System



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

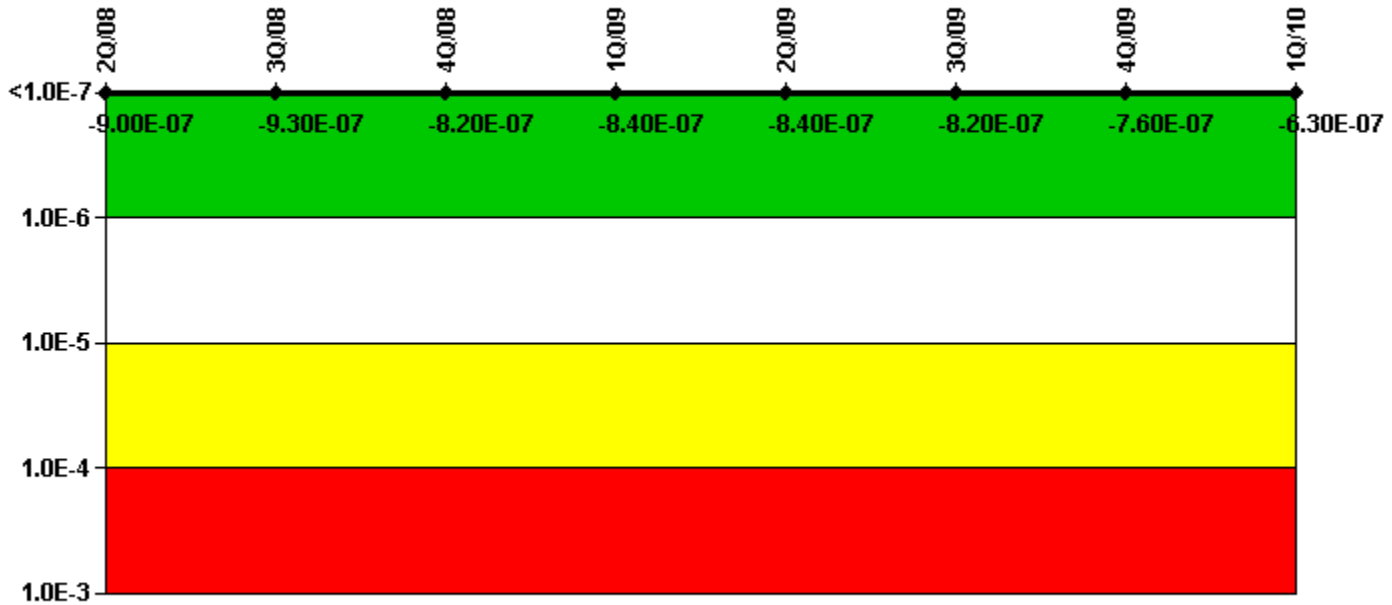
Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	$-2.00E-07$	$-2.10E-07$	$-2.10E-07$	$-2.50E-08$	$5.40E-07$	$3.10E-07$	$9.90E-08$	$1.13E-07$
URI (Δ CDF)	$-1.30E-07$	$-1.40E-07$	$-1.40E-07$	$-1.40E-07$	$-1.40E-07$	$-1.40E-07$	$-5.10E-08$	$-5.04E-08$
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	$-3.30E-07$	$-3.50E-07$	$-3.50E-07$	$-1.65E-07$	$4.00E-07$	$1.70E-07$	$4.80E-08$	$6.20E-08$

Licensee Comments:

1Q/10: PRA coefficients were changed for 1Q10 to be consistent with the plant model of record (PRA-09-015). Based on plant-specific analysis, the postulated consequential LOCAs were revised during the fourth quarter of 2009. This resulted in a small decrease (up to 4%) in HPSI Birnbaum values.

Mitigating Systems Performance Index, Heat Removal System



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

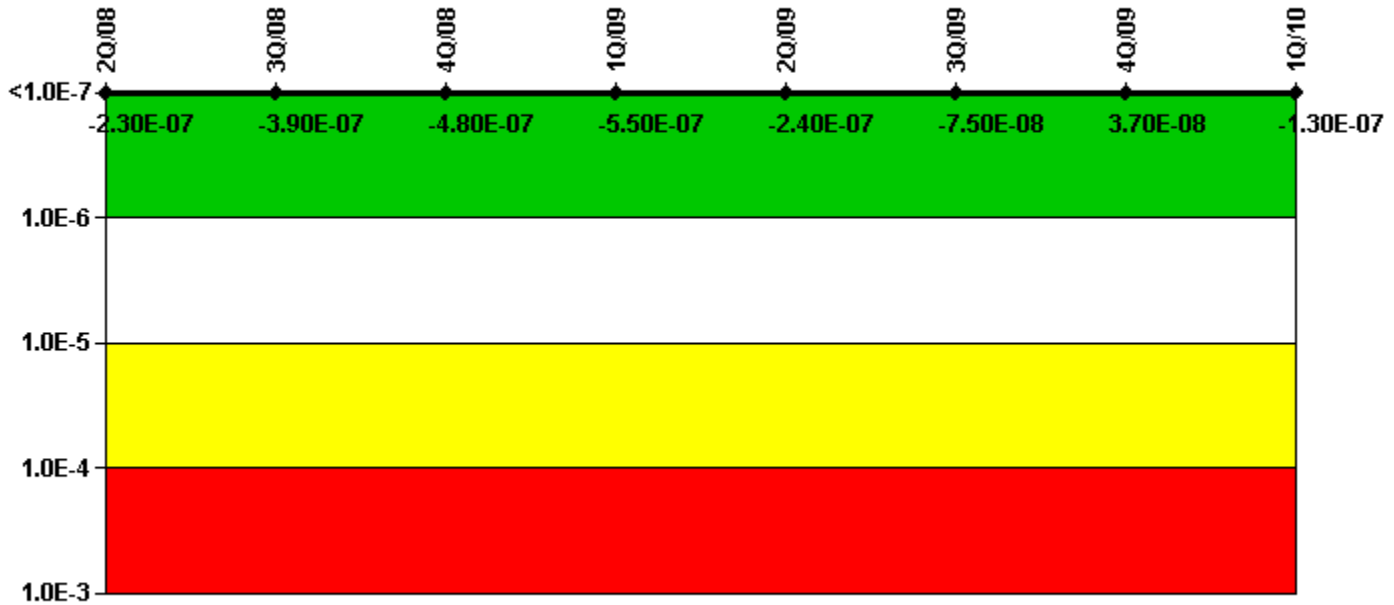
Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-2.80E-07	-2.10E-07	-2.50E-07	-2.70E-07	-2.70E-07	-2.20E-07	-2.00E-07	-1.54E-07
URI (Δ CDF)	-6.20E-07	-7.20E-07	-5.70E-07	-5.70E-07	-5.70E-07	-6.00E-07	-5.60E-07	-4.74E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-9.00E-07	-9.30E-07	-8.20E-07	-8.40E-07	-8.40E-07	-8.20E-07	-7.60E-07	-6.30E-07

Licensee Comments:

1Q/10: PRA coefficients were changed for 1Q10 to be consistent with the plant model of record (PRA-09-015). During the fourth quarter of 2009, the steam line break (SLB) initiating event frequency and its partitioning upstream and downstream of the Main Steam Isolation Valves (MSIVs) were revised based on industry and plant-specific data. Because the SLB frequency upstream of the MSIVs was reduced, the Birnbaum values for AFW decreased up to 24%.

Mitigating Systems Performance Index, Residual Heat Removal System



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

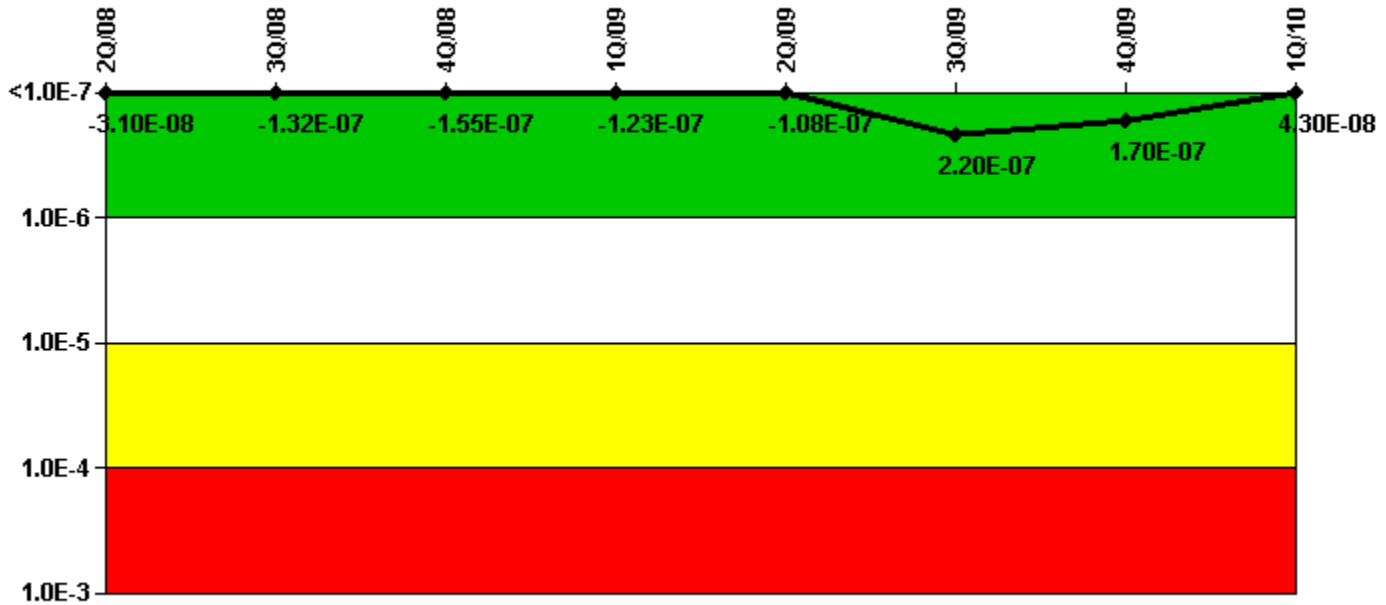
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	-1.30E-07	-2.80E-07	-3.70E-07	-4.40E-07	-1.30E-07	3.50E-08	6.30E-08	-1.09E-07
URI (Δ CDF)	-1.00E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.10E-07	-2.60E-08	-2.51E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.30E-07	-3.90E-07	-4.80E-07	-5.50E-07	-2.40E-07	-7.50E-08	3.70E-08	-1.30E-07

Licensee Comments:

1Q/10: PRA coefficients were changed for 1Q10 to be consistent with the plant model of record (PRA-09-015). Based on plant-specific analysis, the postulated consequential LOCAs were revised during the fourth quarter of 2009. This resulted in a small decrease (up to 4%) in RHR Birnbaum values. The MP013 failure to run Birnbaum value decreased slightly more (~10%) due to its small contribution to CDF (hence it is more sensitive to model changes).

Mitigating Systems Performance Index, Cooling Water Systems



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

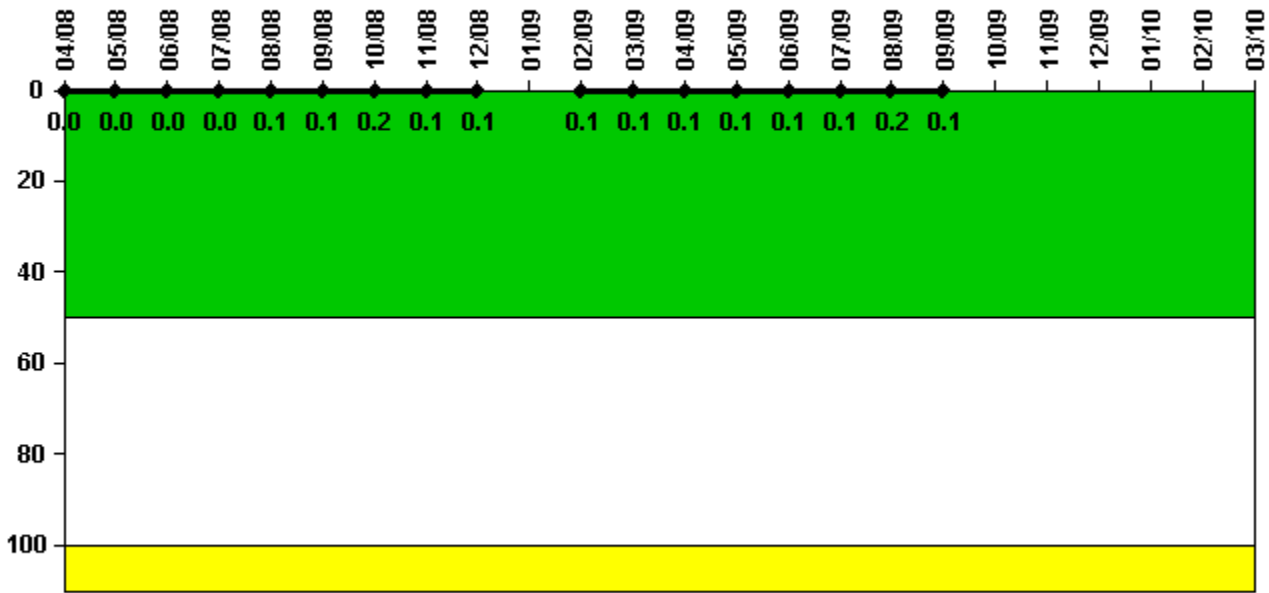
Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (Δ CDF)	6.20E-08	3.80E-08	4.70E-09	3.70E-08	5.20E-08	3.80E-07	2.90E-07	1.63E-07
URI (Δ CDF)	-9.30E-08	-1.70E-07	-1.60E-07	-1.60E-07	-1.60E-07	-1.60E-07	-1.20E-07	-1.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.10E-08	-1.32E-07	-1.55E-07	-1.23E-07	-1.08E-07	2.20E-07	1.70E-07	4.30E-08

Licensee Comments:

1Q/10: PRA coefficients were changed for 1Q10 to be consistent with the plant model of record (PRA-09-015). Based on plant-specific analysis, the postulated consequential LOCAs were revised during the fourth quarter of 2009. As a result, the SWC/CCW Birnbaum values decreased slightly (up to 2%).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

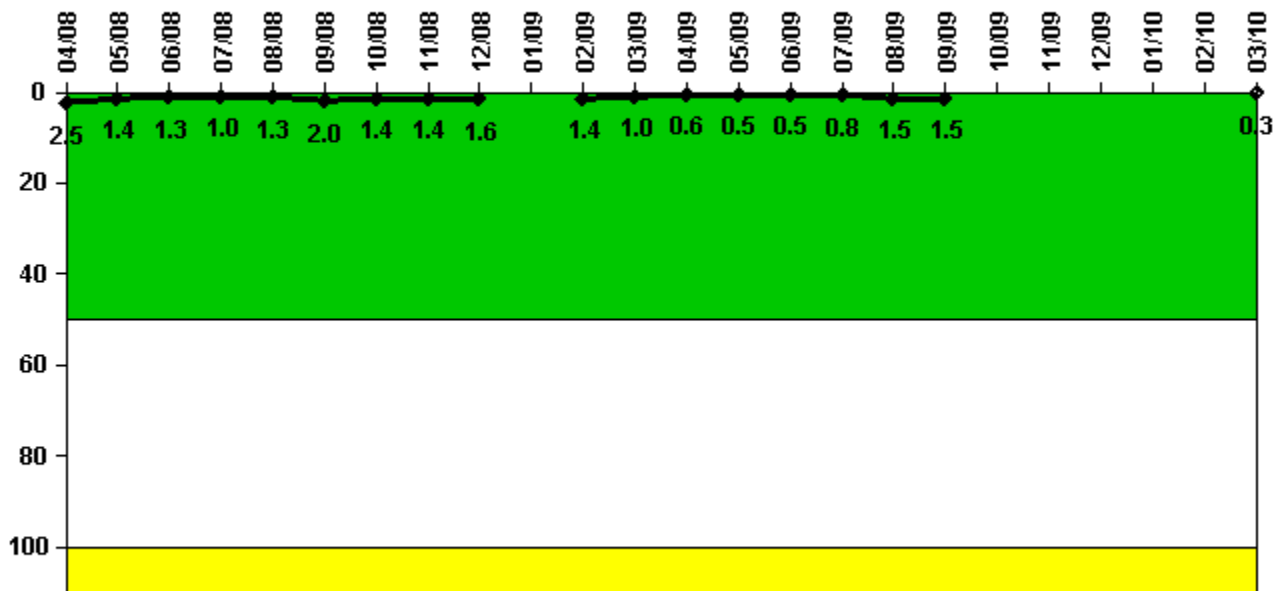
Notes

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	0.000354	0.000335	0.000486	0.000434	0.000919	0.001010	0.001550	0.001260	0.001320	N/A	0.000655	0.000748
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	0	0	0.1	0.1	0.2	0.1	0.1	N/A	0.1	0.1

Reactor Coolant System Activity	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum activity	0.001260	0.001290	0.001330	0.001300	0.001530	0.001420	N/A	N/A	N/A	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	0.1	0.1	0.1	0.1	0.2	0.1	N/A	N/A	N/A	N/A	N/A	N/A

Licensee Comments: none

Reactor Coolant System Leakage



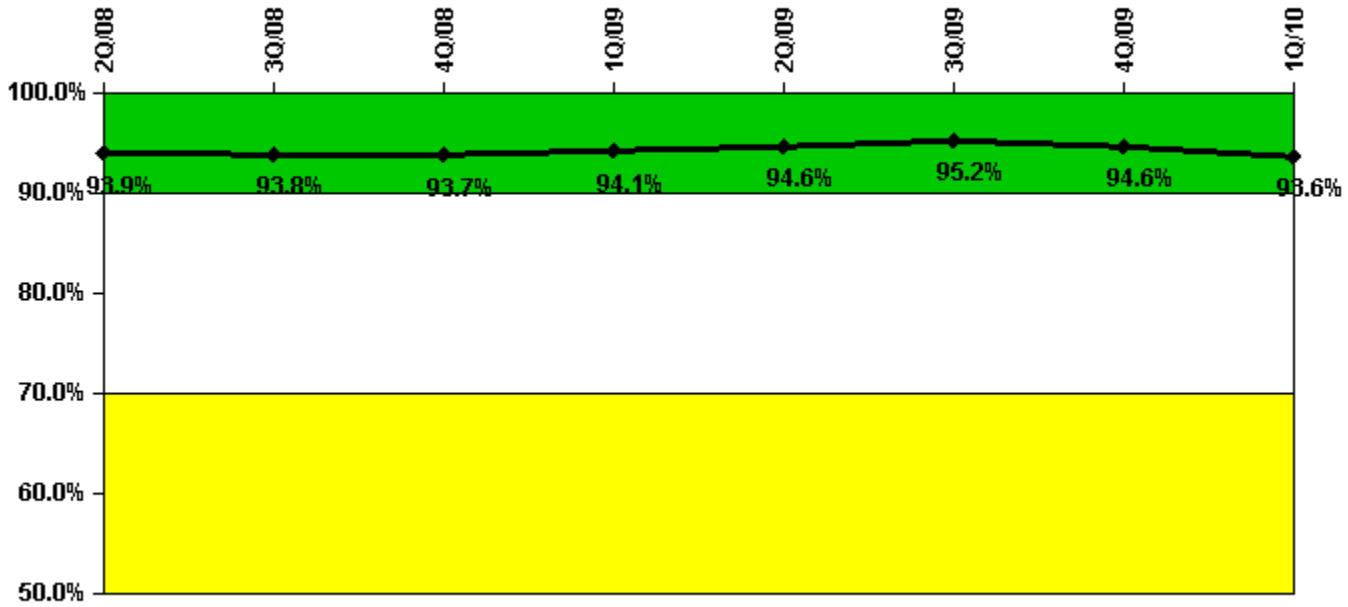
Thresholds: White > 50.0 Yellow > 100.0

Notes

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	0.250	0.140	0.130	0.100	0.130	0.200	0.140	0.140	0.160	N/A	0.140	0.100
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	2.5	1.4	1.3	1.0	1.3	2.0	1.4	1.4	1.6	N/A	1.4	1.0
Reactor Coolant System Leakage	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10
Maximum leakage	0.060	0.050	0.050	0.080	0.150	0.150	N/A	N/A	N/A	N/A	N/A	0.030
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	0.6	0.5	0.5	0.8	1.5	1.5	N/A	N/A	N/A	N/A	N/A	0.3

Licensee Comments: none

Drill/Exercise Performance



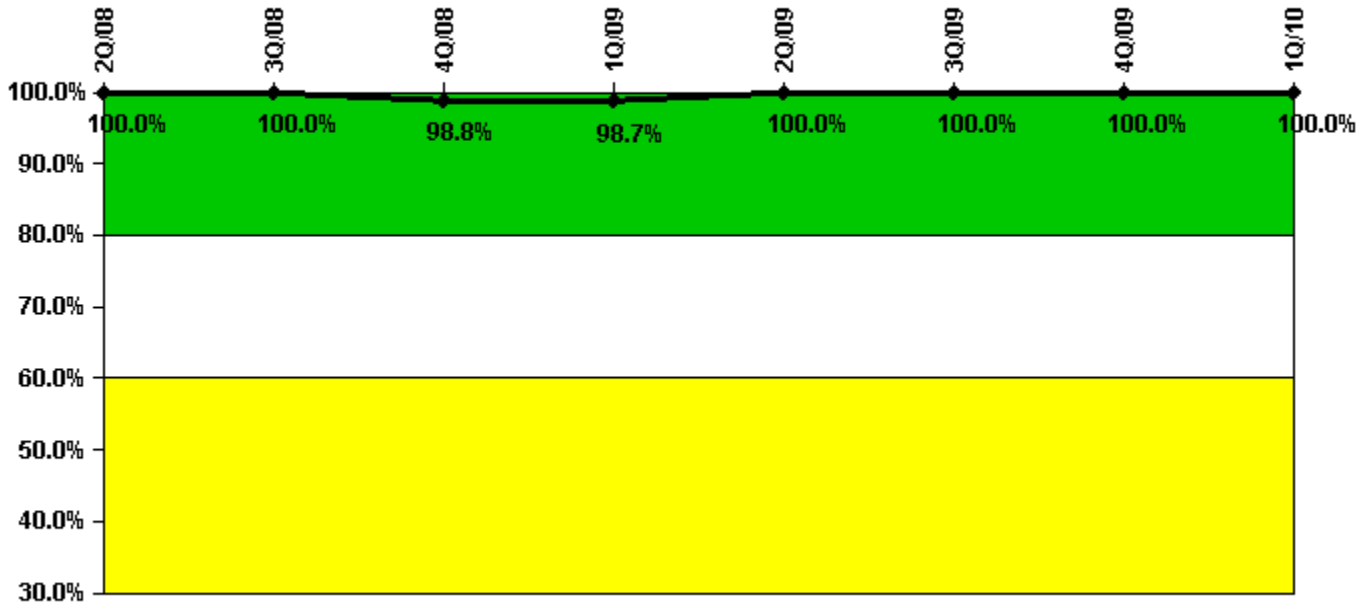
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful opportunities	31.0	28.0	60.0	15.0	89.0	33.0	24.0	11.0
Total opportunities	34.0	29.0	63.0	15.0	93.0	38.0	24.0	15.0
Indicator value	93.9%	93.8%	93.7%	94.1%	94.6%	95.2%	94.6%	93.6%

Licensee Comments: none

ERO Drill Participation



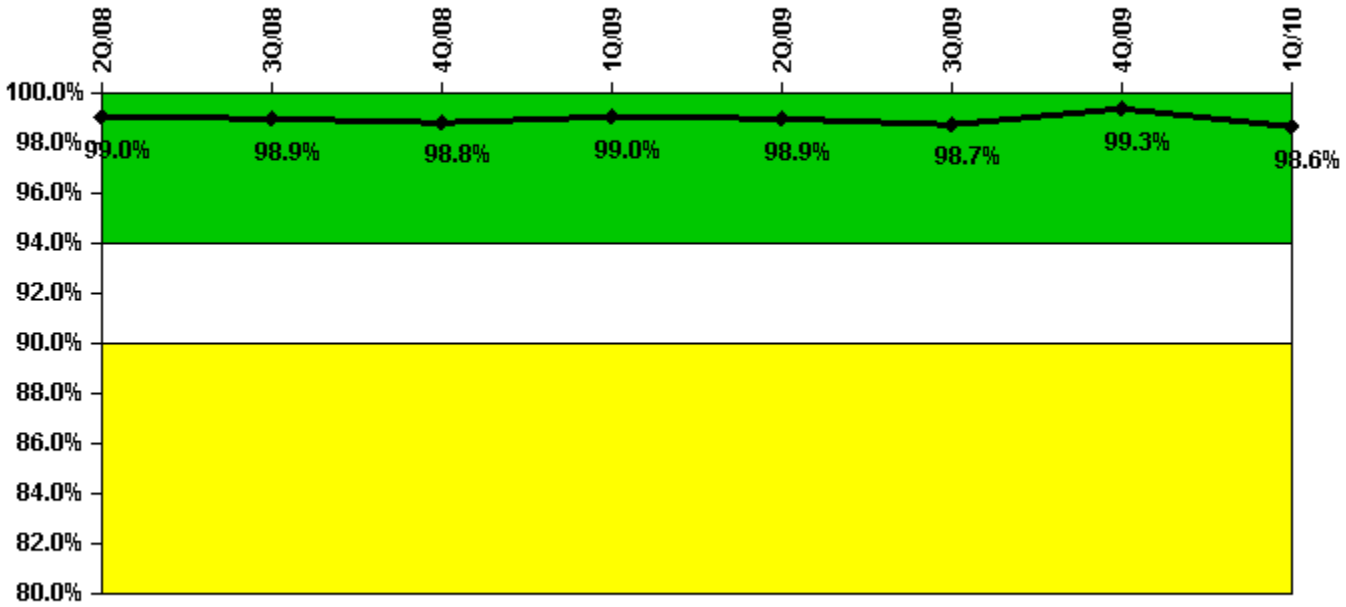
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Participating Key personnel	77.0	77.0	80.0	76.0	74.0	74.0	79.0	72.0
Total Key personnel	77.0	77.0	81.0	77.0	74.0	74.0	79.0	72.0
Indicator value	100.0%	100.0%	98.8%	98.7%	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	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful siren-tests	414	413	457	415	360	359	519	350
Total sirens-tests	416	416	468	416	364	364	520	362
Indicator value	99.0%	98.9%	98.8%	99.0%	98.9%	98.7%	99.3%	98.6%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
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/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/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.