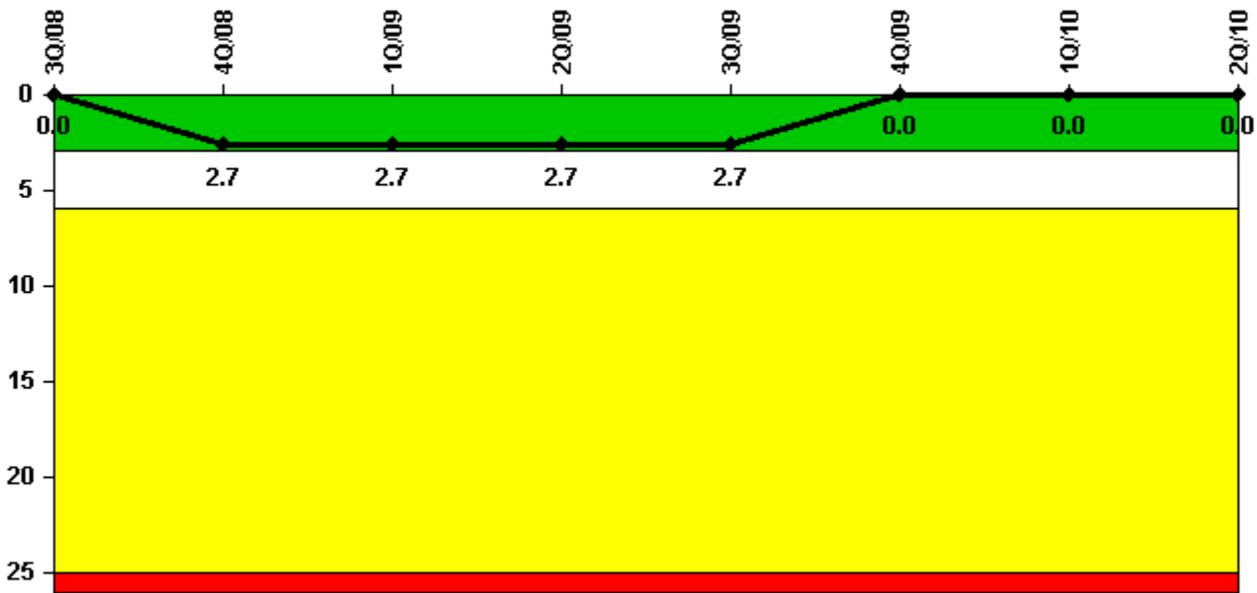


Callaway

2Q/2010 Performance Indicators

Licensee's General Comments: A June 2010 MSPI Basis Document revision revised the estimated demands and hours for all of the MSPI systems. The revised values have been applied from 4Q2007 forward to address an error made during calculation of estimated values. Additionally PRA values for EAC load/run failure mode were corrected to restore compliance with NEI 99-02 guidance. This change was applied to the preceding 36 months of data (beginning 3Q2007). Additionally, for the Cooling Water systems, a minor correction was made to a PRA unavailability parameter, applied to the previous 36 months (beginning 3Q2007). Refer to individual comments submitted with the 2nd quarter 2010 MSPI data. None of these changes resulted in a PI color change.

Unplanned Scrams per 7000 Critical Hrs



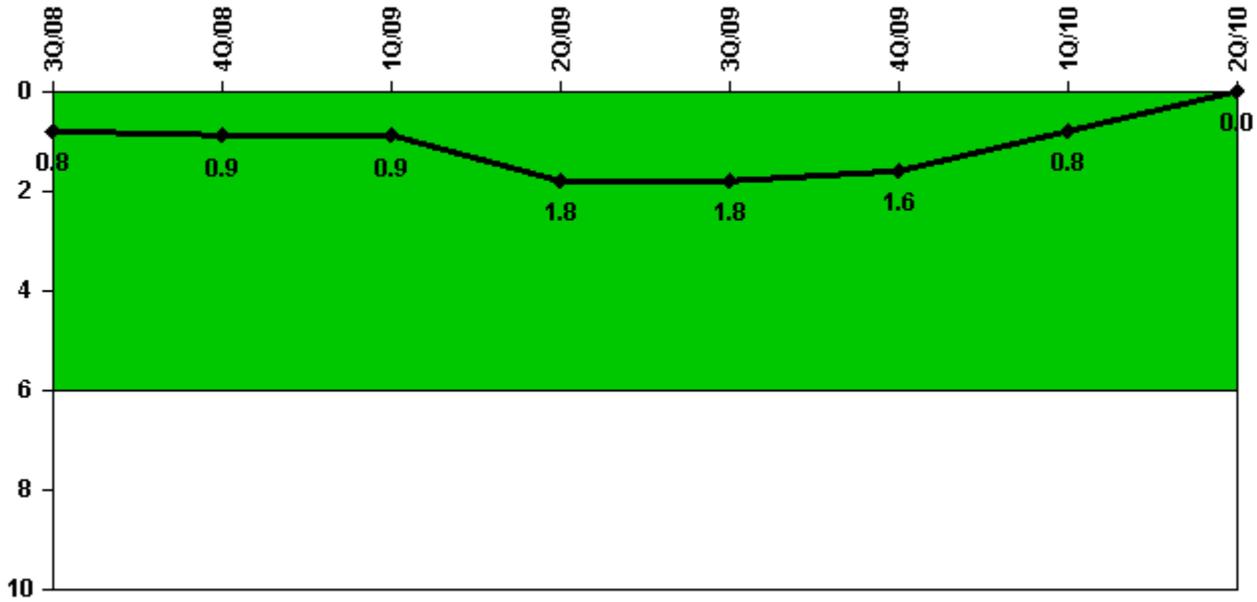
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned scrams	0	3.0	0	0	0	0	0	0
Critical hours	2208.0	1311.6	1950.4	2184.0	2208.0	2209.0	2159.0	849.6
Indicator value	0	2.7	2.7	2.7	2.7	0	0	0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



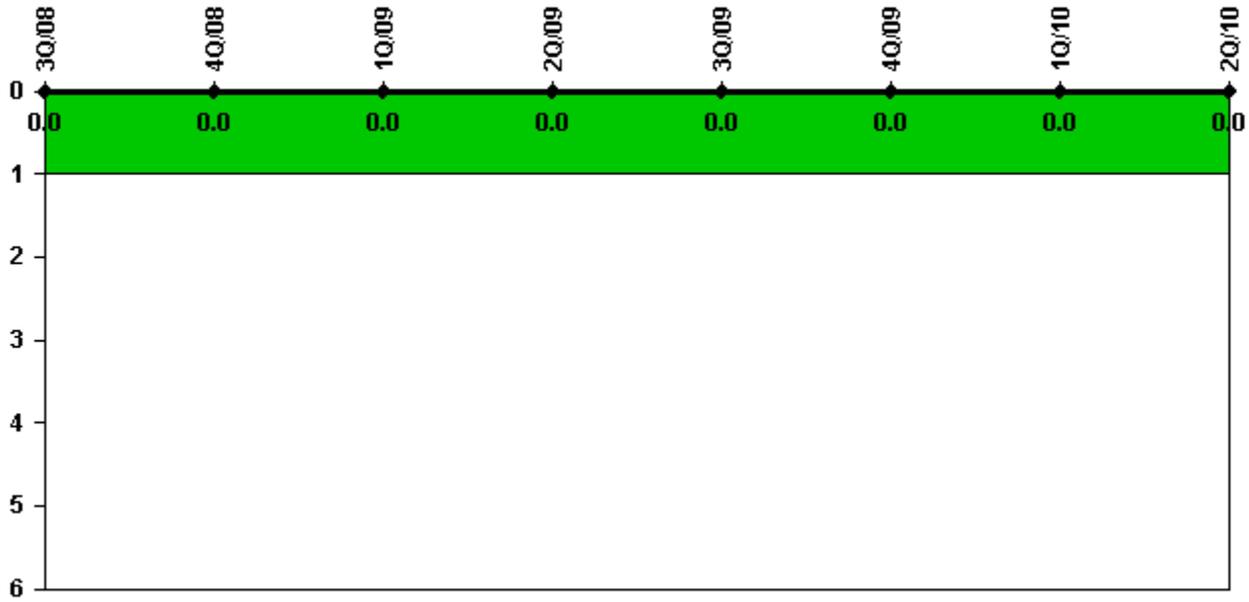
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned power changes	0	0	1.0	1.0	0	0	0	0
Critical hours	2208.0	1311.6	1950.4	2184.0	2208.0	2209.0	2159.0	849.6
Indicator value	0.8	0.9	0.9	1.8	1.8	1.6	0.8	0

Licensee Comments: none

Unplanned Scrams with Complications



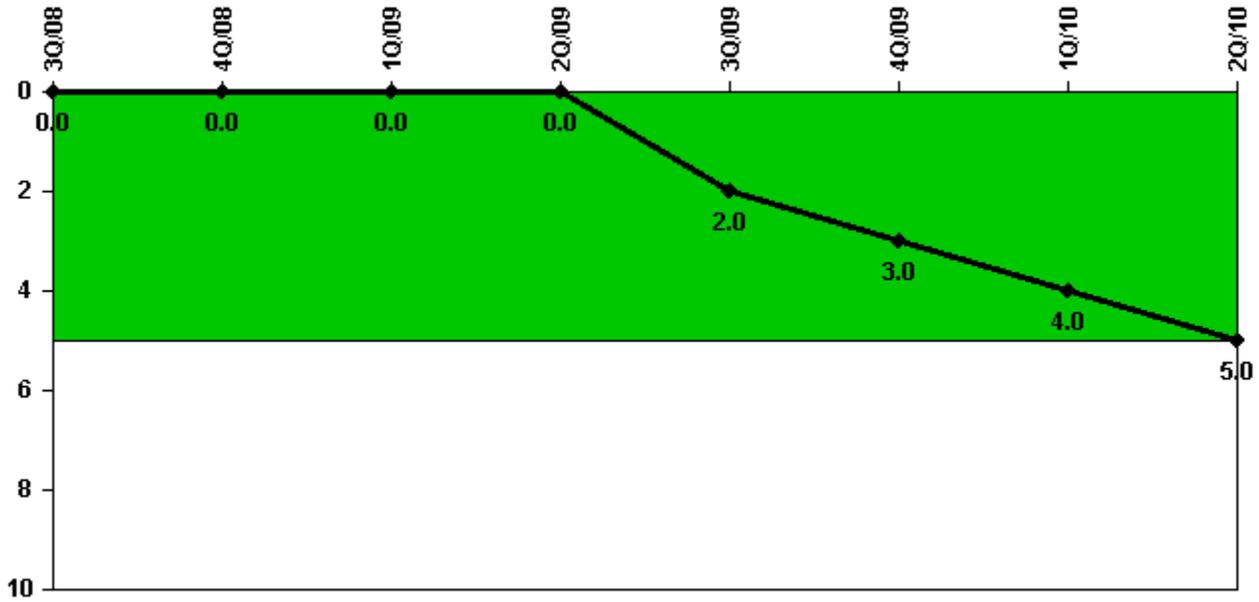
Thresholds: White > 1.0

Notes

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

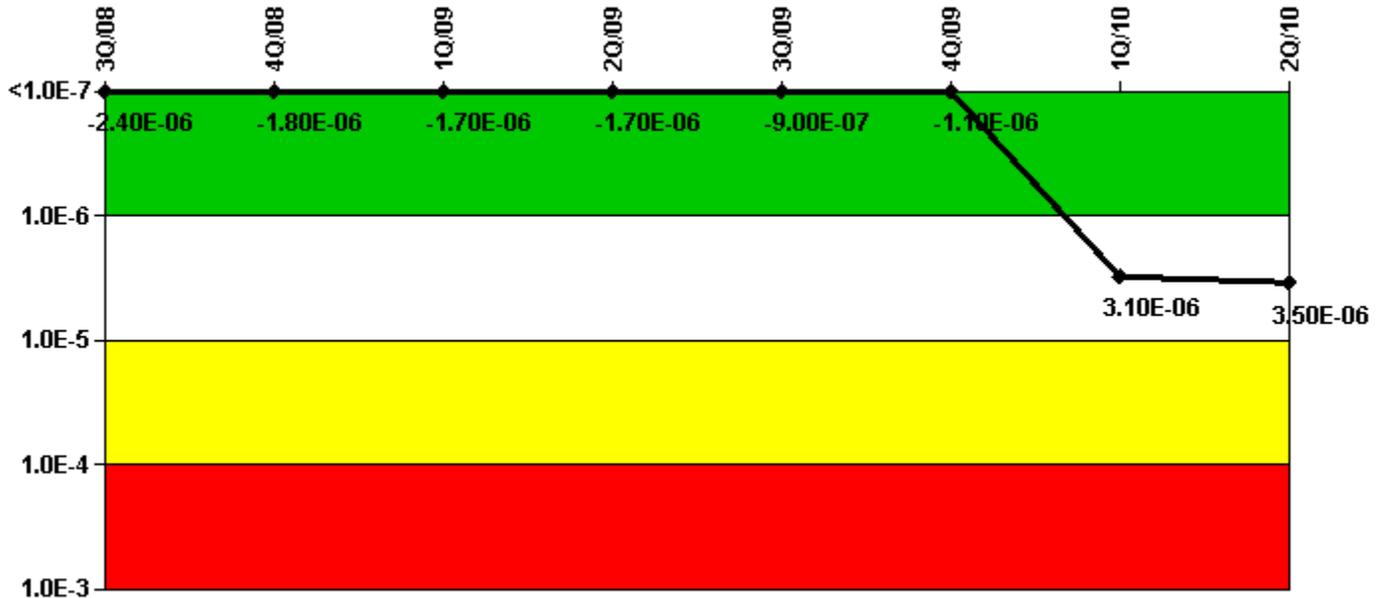
Notes

Safety System Functional Failures (PWR)	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Safety System Functional Failures	0	0	0	0	2	1	1	1
Indicator value	0	0	0	0	2	3	4	5

Licensee Comments:

2Q/10: LER 2010-005-00 was submitted on 2010.05.28 as a Safety System Functional Failure.

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/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	4.84E-07	6.27E-07	7.36E-07	8.06E-07	9.56E-07	7.76E-07	1.18E-06	1.61E-06
URI (Δ CDF)	-2.90E-06	-2.44E-06	-2.48E-06	-2.51E-06	-1.86E-06	-1.87E-06	1.94E-06	1.89E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.40E-06	-1.80E-06	-1.70E-06	-1.70E-06	-9.00E-07	-1.10E-06	3.10E-06	3.50E-06

Licensee Comments:

2Q/10: Risk Cap Invoked. Changed PRA Parameter(s). A June 2010 MSPI Basis Document revision revised the estimated demands and hours for the MSPI Emergency AC Power System. The revised values have been applied from 4Q2007 forward to address an error made during calculation of estimated values. In addition, PRA values for the Emergency AC load/run failure mode were corrected to restore compliance with NEI 99-02 guidance. This change was applied to the preceding 36 months of data (beginning 3Q2007). No change in PI color resulted from this correction.

1Q/10: Risk Cap Invoked. Changed PRA Parameter(s). NE01 Failure to run during surveillance testing.

4Q/09: Risk Cap Invoked. Changed PRA Parameter(s).

3Q/09: Risk Cap Invoked. Changed PRA Parameter(s).

2Q/09: Risk Cap Invoked. Changed PRA Parameter(s).

1Q/09: Risk Cap Invoked. Changed PRA Parameter(s).

4Q/08: Risk Cap Invoked. Changed PRA Parameter(s). Re-evaluated decision to recind diesel generator MSPI run time failure from December 2008. Callaway has determined that the failure was a run time failure and will report it as such to the NRC. The failure has been re-entered into CDE data.

3Q/08: Changed PRA Parameter(s).

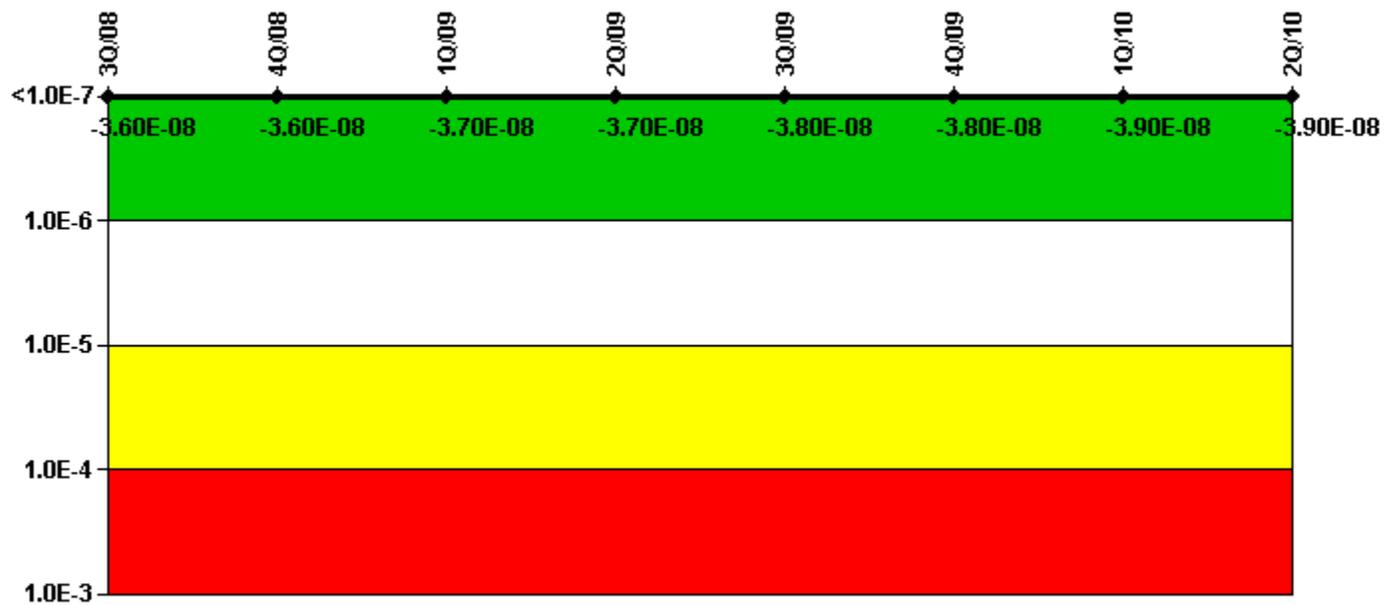
2Q/08: Changed PRA Parameter(s). Revision 002 of the Callaway Plant MSPI Basis Document was issued on June 26, 2008, reflecting revised planned baseline unavailability factors for all MSPI systems. Revised data is effective for MSPI calculations in the third quarter 2008.

1Q/08: Changed PRA Parameter(s).

4Q/07: Changed PRA Parameter(s).

3Q/07: Changed PRA Parameter(s).

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/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	-4.74E-09	-4.75E-09	-4.74E-09	-4.58E-09	-4.85E-09	-4.85E-09	-4.85E-09	-4.85E-09
URI (ΔCDF)	-3.09E-08	-3.16E-08	-3.22E-08	-3.26E-08	-3.31E-08	-3.35E-08	-3.40E-08	-3.44E-08
PLE	NO							
Indicator value	-3.60E-08	-3.60E-08	-3.70E-08	-3.70E-08	-3.80E-08	-3.80E-08	-3.90E-08	-3.90E-08

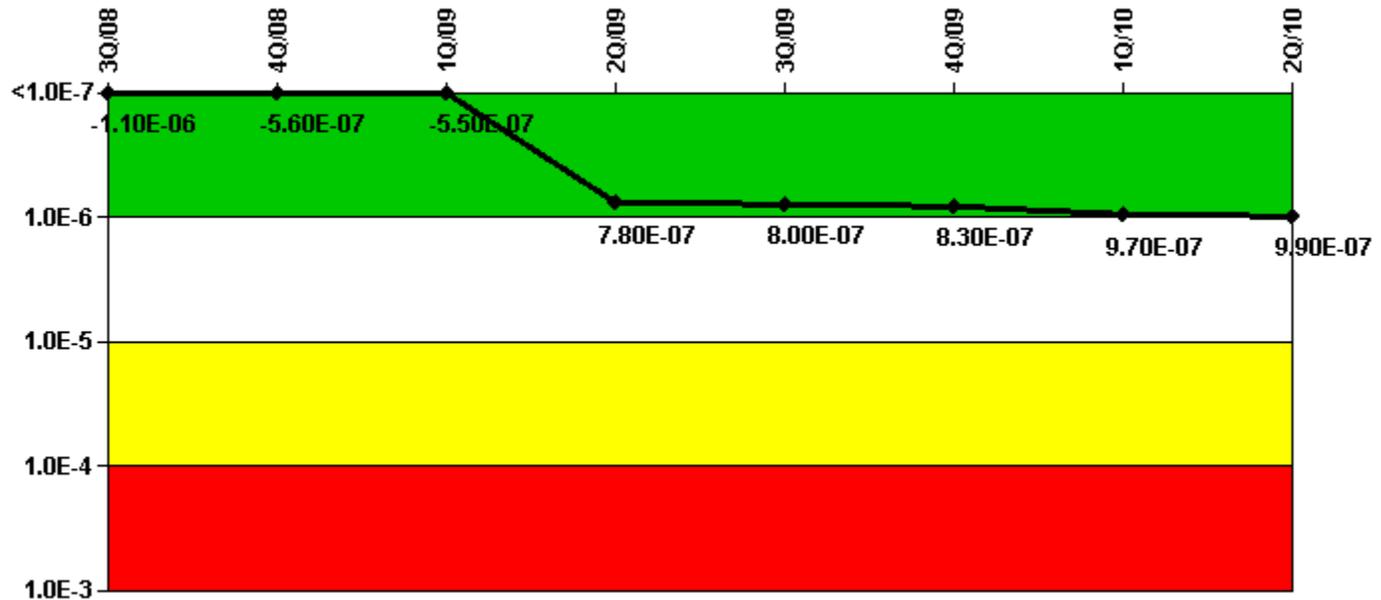
Licensee Comments:

2Q/10: A June 2010 MSPI Basis Document revision revised the estimated demands and hours for the MSPI High Pressure Injection System. The revised values have been applied from 4Q2007 forward to address an error made during calculation of estimated values. These corrections do not result in a PI color change.

2Q/08: Revision 002 of the Callaway Plant MSPI Basis Document was issued on June 26, 2008, reflecting revised

planned baseline unavailability factors for all MSPI systems. Revised data is effective for MSPI calculations in the third quarter 2008.

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/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	-8.41E-08	-8.47E-08	-7.99E-08	-2.87E-08	-3.44E-08	-1.41E-08	1.21E-07	1.25E-07
URI (ΔCDF)	-9.68E-07	-4.75E-07	-4.69E-07	8.13E-07	8.30E-07	8.46E-07	8.46E-07	8.63E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-06	-5.60E-07	-5.50E-07	7.80E-07	8.00E-07	8.30E-07	9.70E-07	9.90E-07

Licensee Comments:

2Q/10: Risk Cap Invoked. A June 2010 MSPI Basis Document revision revised the estimated demands and hours for the MSPI Heat Removal System. The revised values have been applied from 4Q2007 forward to address an error made during calculation of estimated values. These corrections do not result in a PI color change.

1Q/10: Risk Cap Invoked.

4Q/09: Risk Cap Invoked.

3Q/09: Risk Cap Invoked.

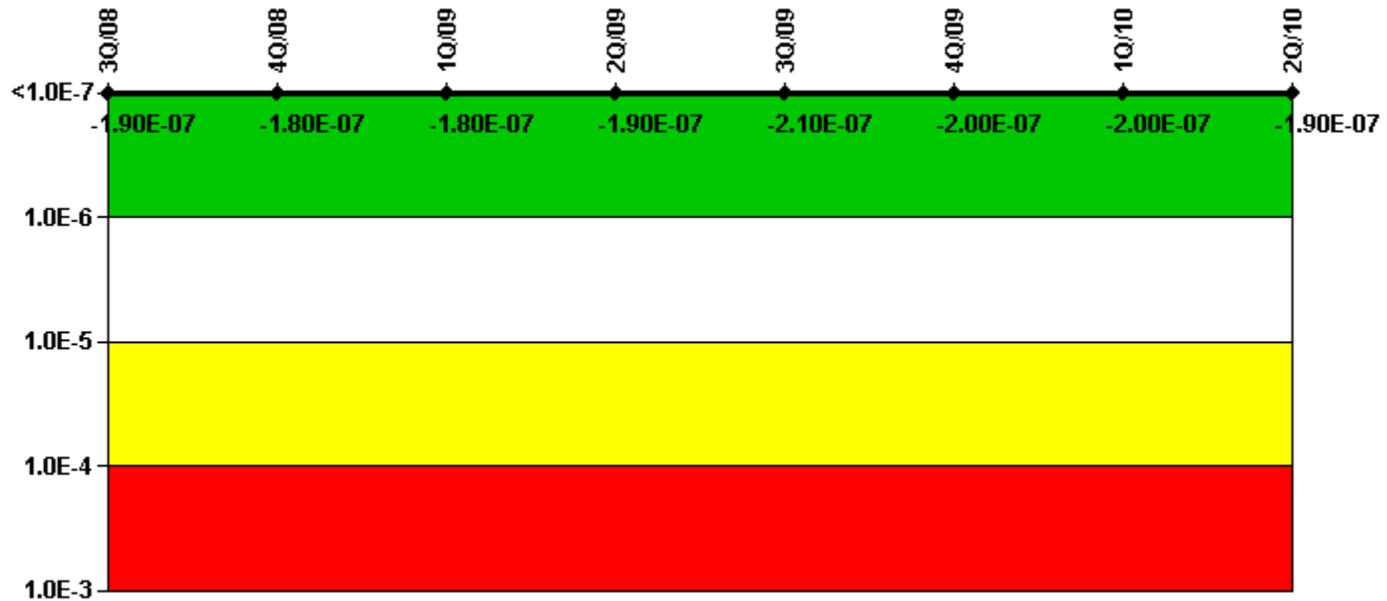
2Q/09: Risk Cap Invoked. Failure to start during surveillance. This will be reported on LER 2009-002 in 2009Q3

1Q/09: Risk Cap Invoked.

4Q/08: Risk Cap Invoked. Failure to start of the TDAFP has been added on 1/18/10 due to Remote Servo FCFV0313 silver oxide corrosion issue / PART 21 notification.

2Q/08: Revision 002 of the Callaway Plant MSPI Basis Document was issued on June 26, 2008, reflecting revised planned baseline unavailability factors for all MSPI systems. Revised data is effective for MSPI calculations in the third quarter 2008.

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

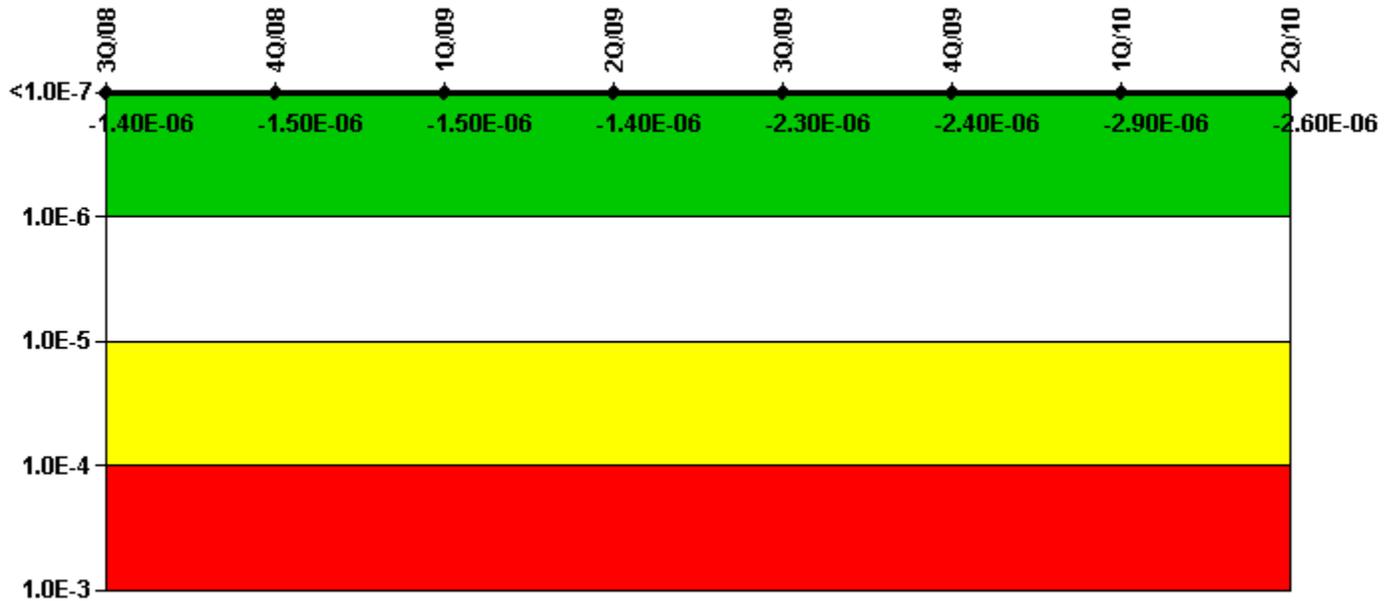
Mitigating Systems Performance Index, Residual Heat Removal System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	1.76E-08	2.88E-08	2.57E-08	1.43E-08	-7.50E-09	-7.26E-09	-5.28E-09	-1.22E-10
URI (Δ CDF)	-2.09E-07	-2.06E-07	-2.04E-07	-2.01E-07	-1.98E-07	-1.95E-07	-1.92E-07	-1.88E-07
PLE	NO							
Indicator value	-1.90E-07	-1.80E-07	-1.80E-07	-1.90E-07	-2.10E-07	-2.00E-07	-2.00E-07	-1.90E-07

Licensee Comments:

2Q/10: A June 2010 MSPI Basis Document revision revised the estimated demands and hours for the MSPI Residual Heat Removal System. The revised values have been applied from 4Q2007 forward to address an error made during calculation of estimated values. These corrections do not result in a PI color change.

2Q/08: Revision 002 of the Callaway Plant MSPI Basis Document was issued on June 26, 2008, reflecting revised planned baseline unavailability factors for all MSPI systems. Revised data is effective for MSPI calculations in the third quarter 2008.

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/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (Δ CDF)	-2.01E-07	-2.86E-07	-3.63E-07	-1.84E-07	-1.14E-06	-1.19E-06	-1.67E-06	-1.46E-06
URI (Δ CDF)	-1.16E-06	-1.17E-06	-1.17E-06	-1.18E-06	-1.18E-06	-1.18E-06	-1.19E-06	-1.19E-06
PLE	NO							
Indicator value	-1.40E-06	-1.50E-06	-1.50E-06	-1.40E-06	-2.30E-06	-2.40E-06	-2.90E-06	-2.60E-06

Licensee Comments:

2Q/10: Changed PRA Parameter(s). A June 2010 MSPI Basis Document revision revised the estimated demands and hours for the MSPI Cooling Water System. The revised values have been applied from 4Q2007 forward to address an error made during calculation of estimated values. In addition, a minor correction was made to a PRA unavailability parameter, applied to the previous 36 months (beginning 3Q2007). These corrections do not result in a PI color change.

1Q/10: Changed PRA Parameter(s).

4Q/09: Changed PRA Parameter(s).

3Q/09: Changed PRA Parameter(s).

2Q/09: Changed PRA Parameter(s).

1Q/09: Changed PRA Parameter(s).

4Q/08: Changed PRA Parameter(s).

3Q/08: Changed PRA Parameter(s).

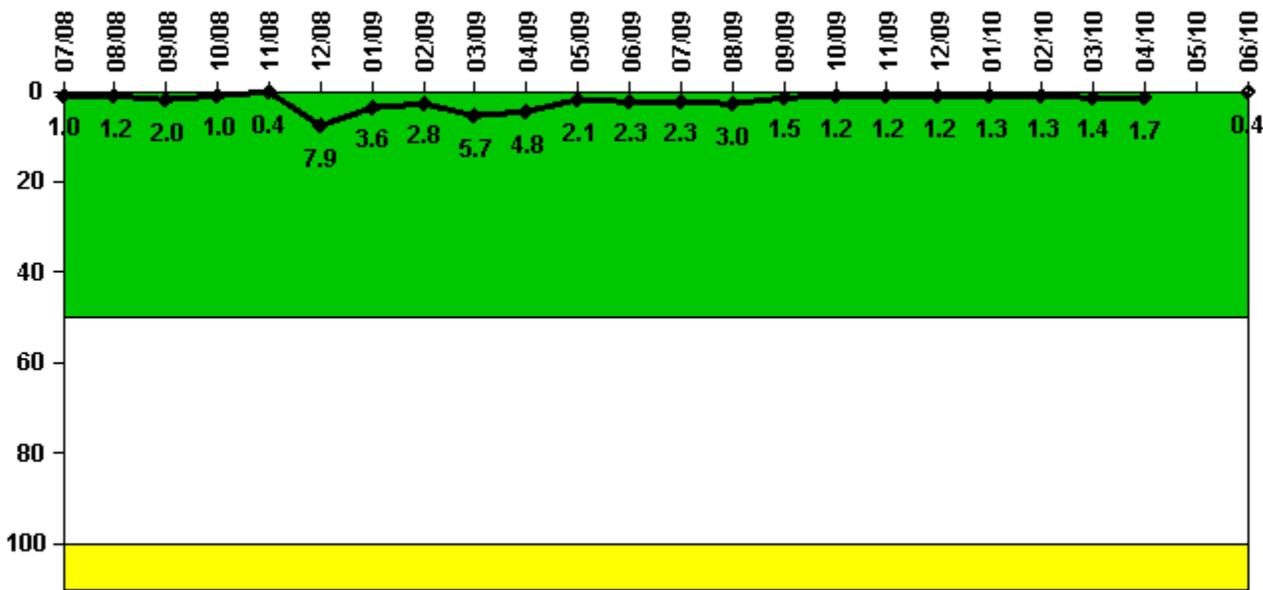
2Q/08: Changed PRA Parameter(s). Revision 002 of the Callaway Plant MSPI Basis Document was issued on June 26, 2008, reflecting revised planned baseline unavailability factors for all MSPI systems. Revised data is effective for MSPI calculations in the third quarter 2008.

1Q/08: Changed PRA Parameter(s).

4Q/07: Changed PRA Parameter(s).

3Q/07: Changed PRA Parameter(s).

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

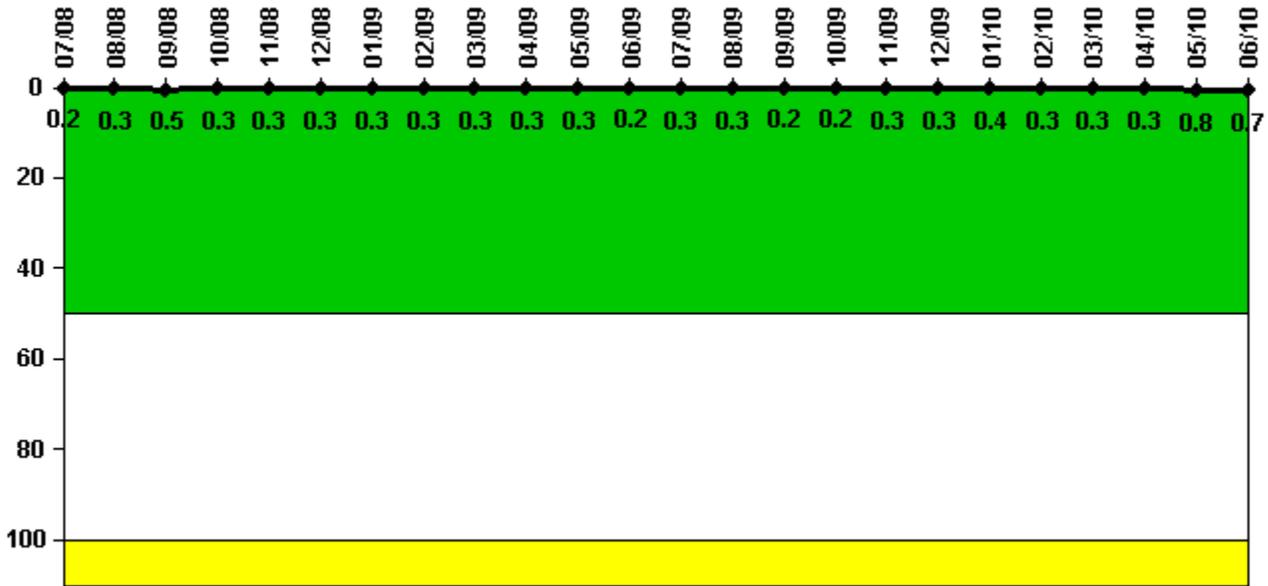
Notes

Reactor Coolant System Activity	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum activity	0.009950	0.012100	0.020400	0.010400	0.003600	0.078600	0.035500	0.027900	0.056800	0.048000	0.020600	0.022500
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	1.0	1.2	2.0	1.0	0.4	7.9	3.6	2.8	5.7	4.8	2.1	2.3
Reactor Coolant System Activity	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum activity	0.023000	0.030000	0.015000	0.012000	0.011700	0.012300	0.012600	0.012800	0.013600	0.016800	N/A	0.003680

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	1.0
Indicator value	2.3	3.0	1.5	1.2	1.2	1.2	1.3	1.3	1.4	1.7	N/A	0.4	

Licensee Comments: none

Reactor Coolant System Leakage



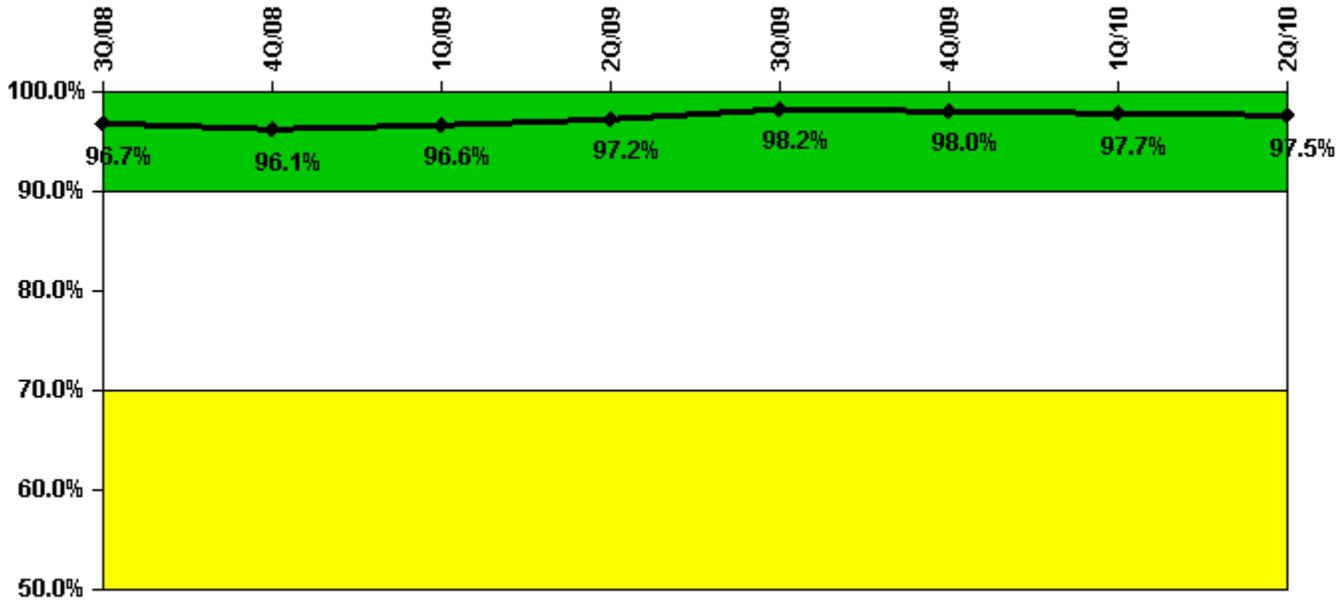
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/08	8/08	9/08	10/08	11/08	12/08	1/09	2/09	3/09	4/09	5/09	6/09
Maximum leakage	0.015	0.030	0.048	0.026	0.033	0.033	0.026	0.031	0.026	0.025	0.032	0.024
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	0.3	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2
Reactor Coolant System Leakage	7/09	8/09	9/09	10/09	11/09	12/09	1/10	2/10	3/10	4/10	5/10	6/10
Maximum leakage	0.034	0.031	0.023	0.023	0.027	0.032	0.039	0.025	0.031	0.034	0.076	0.066
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	0.3	0.3	0.2	0.2	0.3	0.3	0.4	0.3	0.3	0.3	0.8	0.7

Licensee Comments: none

Drill/Exercise Performance



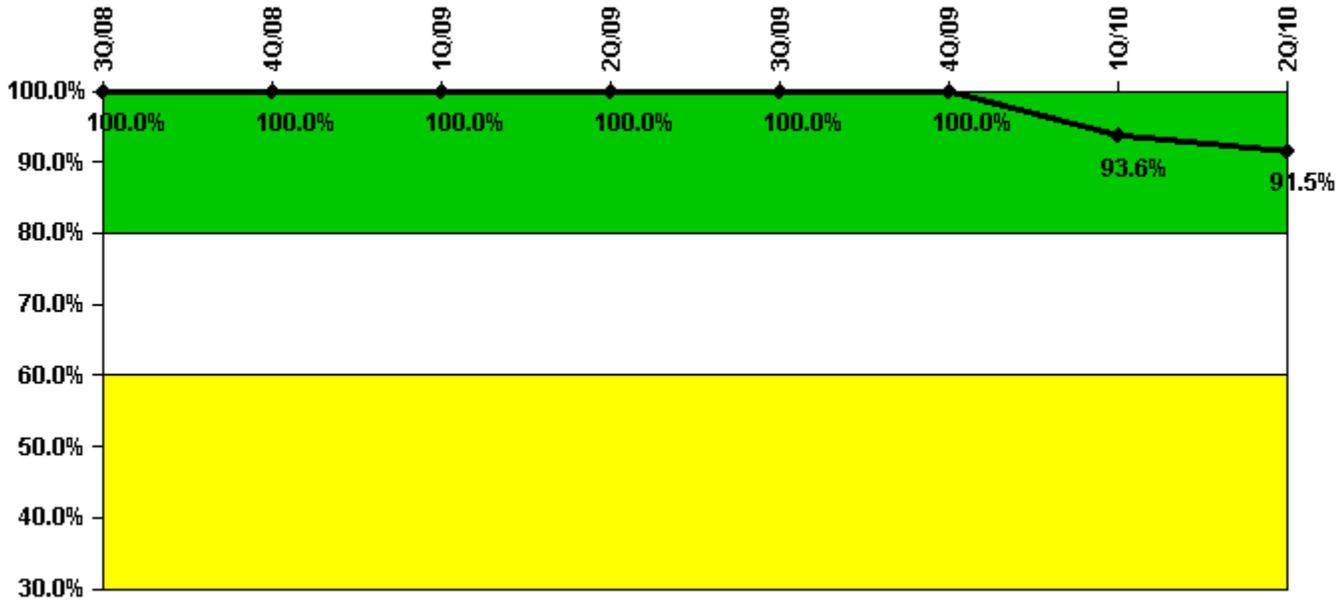
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful opportunities	18.0	18.0	58.0	68.0	25.0	45.0	6.0	0
Total opportunities	18.0	20.0	58.0	68.0	26.0	47.0	6.0	1.0
Indicator value	96.7%	96.1%	96.6%	97.2%	98.2%	98.0%	97.7%	97.5%

Licensee Comments: none

ERO Drill Participation



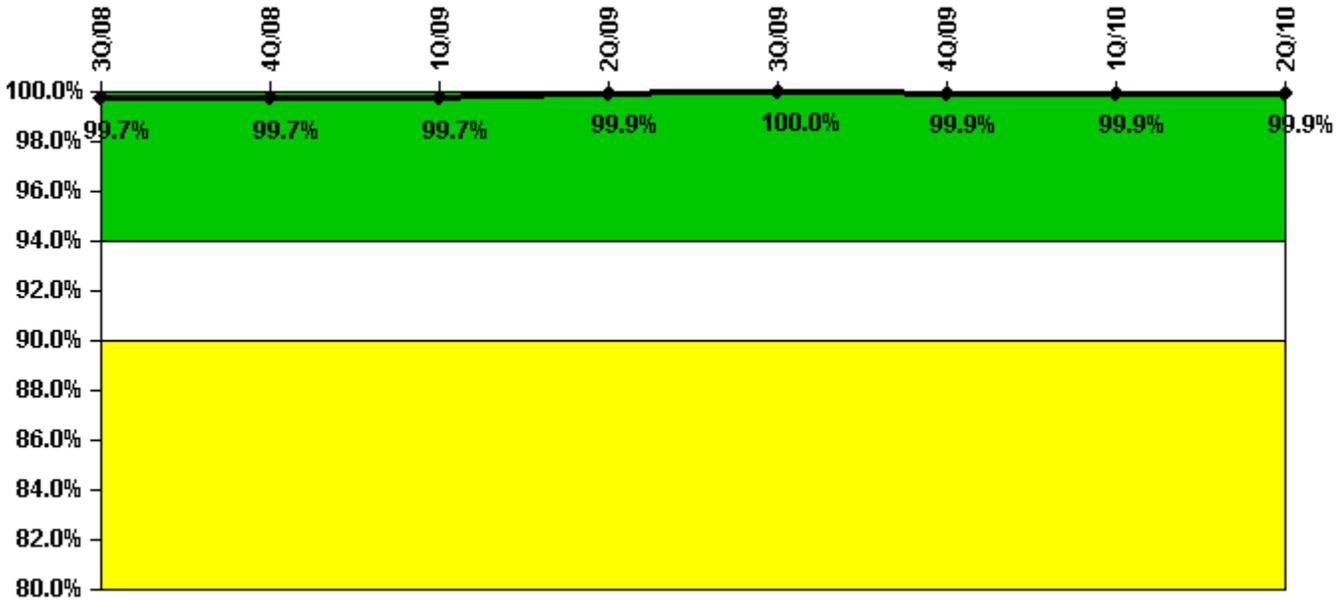
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Participating Key personnel	103.0	100.0	100.0	103.0	106.0	105.0	102.0	97.0
Total Key personnel	103.0	100.0	100.0	103.0	106.0	105.0	109.0	106.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	93.6%	91.5%

Licensee Comments: none

Alert & Notification System



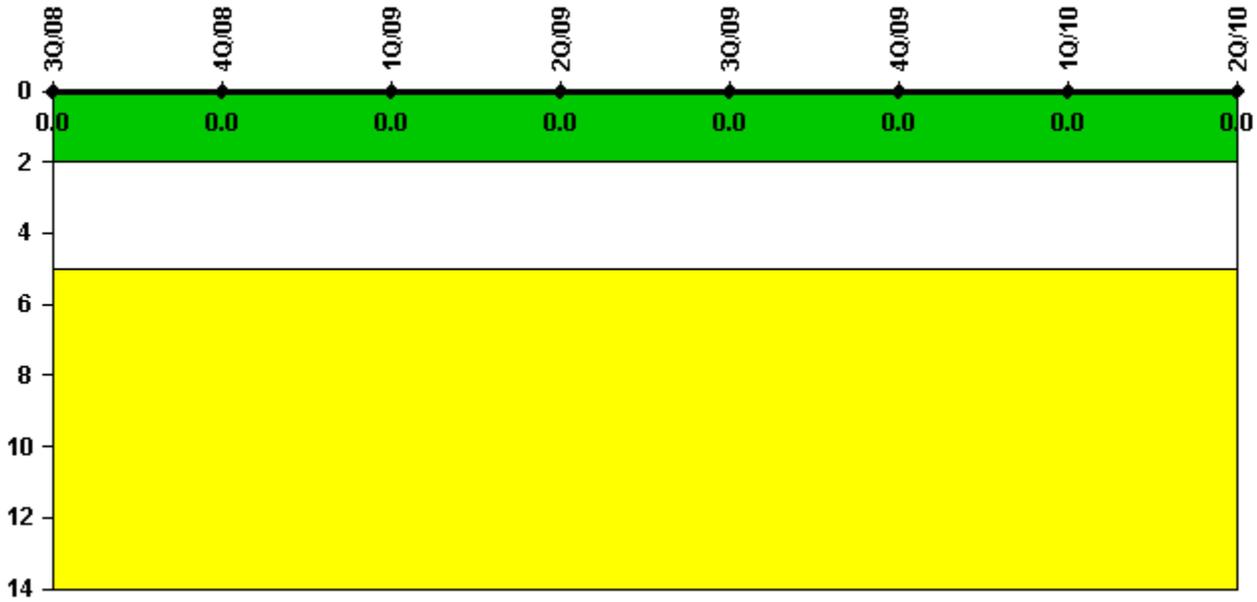
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful siren-tests	405	377	377	377	377	376	377	377
Total sirens-tests	406	377	377	377	377	377	377	377
Indicator value	99.7%	99.7%	99.7%	99.9%	100.0%	99.9%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



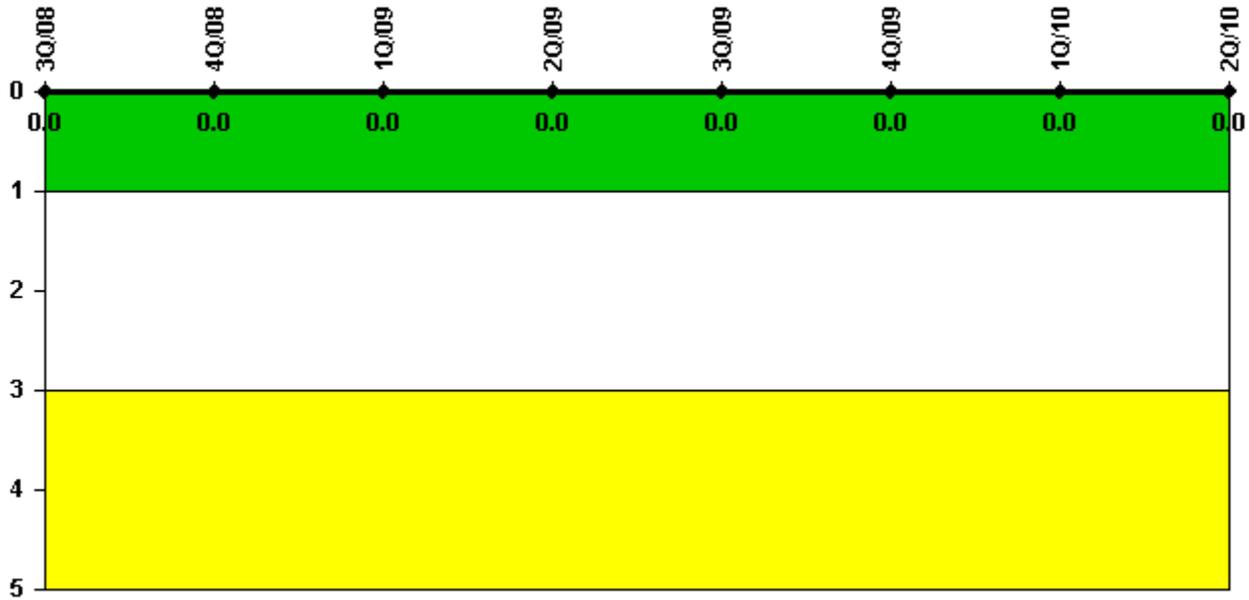
Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/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.