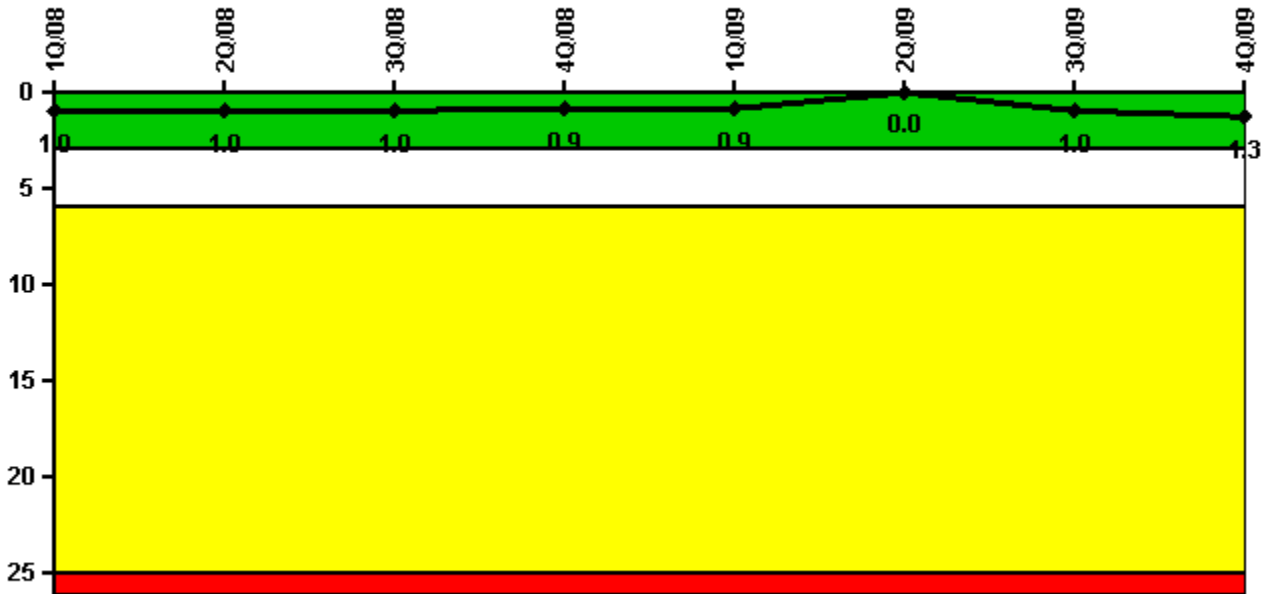


San Onofre 2

4Q/2009 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



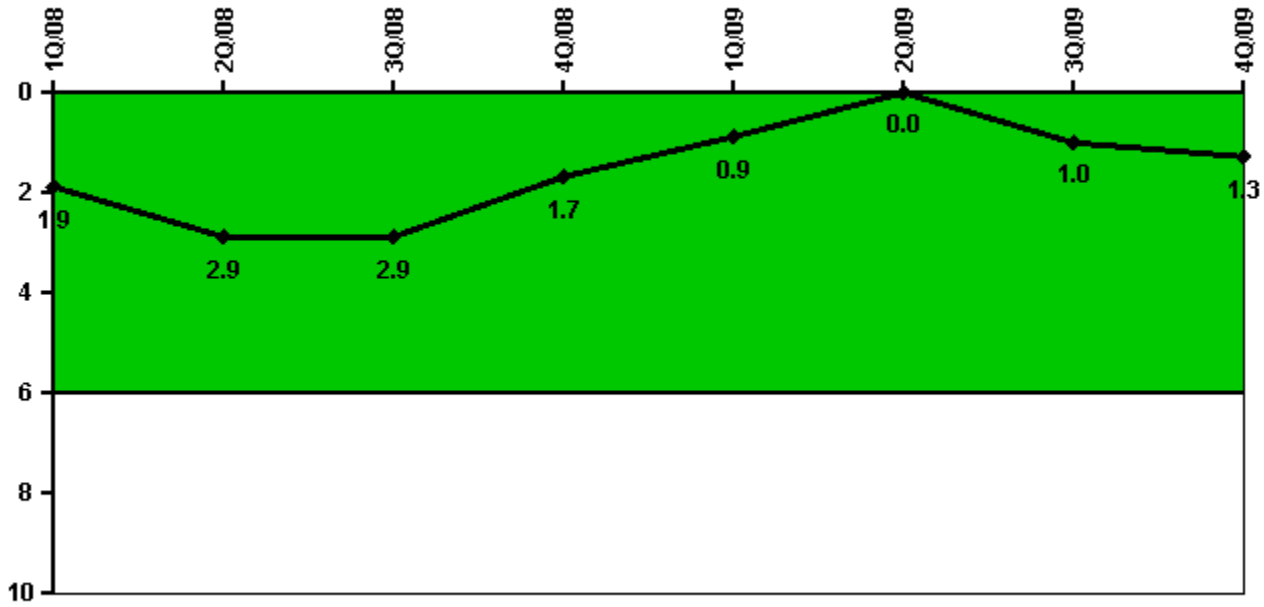
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned scrams	0	1.0	0	0	0	0	1.0	0
Critical hours	1768.6	2051.2	2208.0	2113.7	1007.7	2184.0	2052.4	0
Indicator value	1.0	1.0	1.0	0.9	0.9	0	1.0	1.3

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



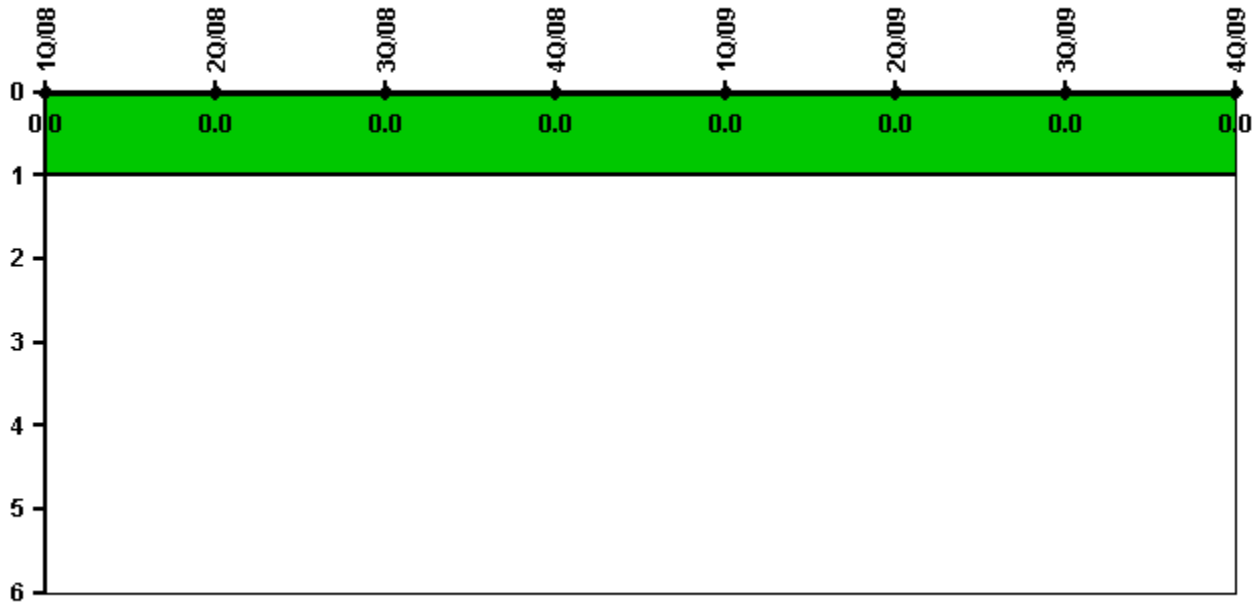
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	1.0	1.0	0	0	0	0	1.0	0
Critical hours	1768.6	2051.2	2208.0	2113.7	1007.7	2184.0	2052.4	0
Indicator value	1.9	2.9	2.9	1.7	0.9	0	1.0	1.3

Licensee Comments: none

Unplanned Scrams with Complications



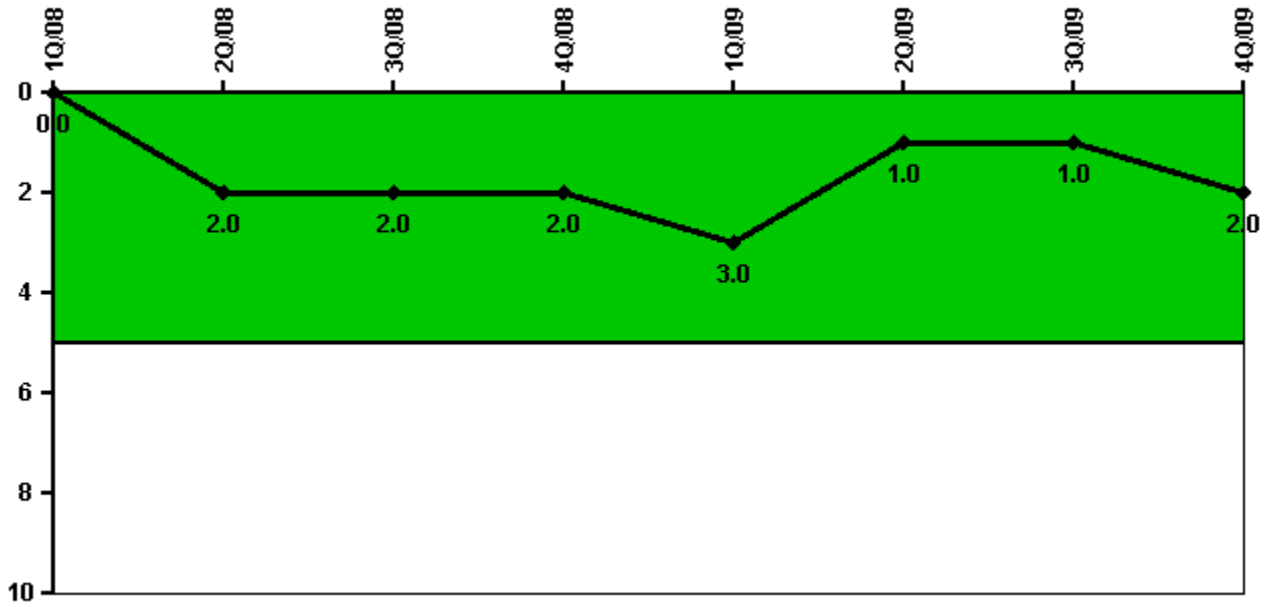
Thresholds: White > 1.0

Notes

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

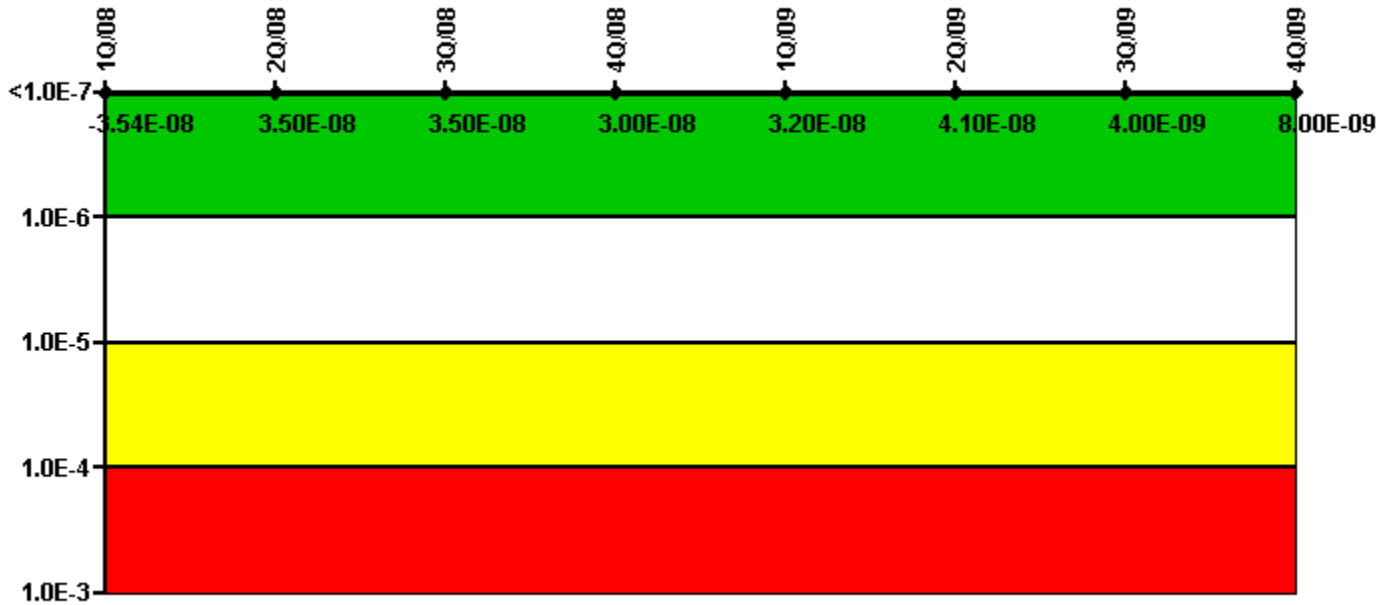
Notes

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

Licensee Comments:

4Q/09: LER 2-2009-003 Event Date 9/29/09 LER Date 11/25/09

Mitigating Systems Performance Index, Emergency AC Power System



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

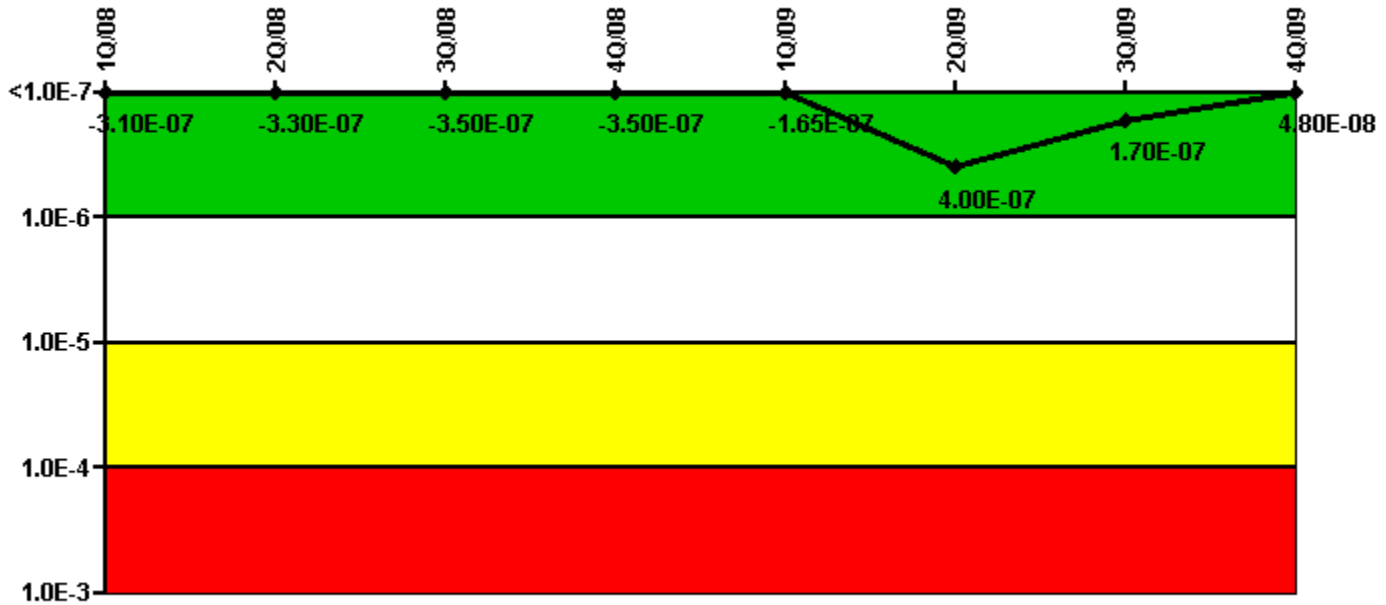
Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	-5.40E-09	2.20E-08	2.40E-08	1.90E-08	2.10E-08	3.00E-08	3.10E-08	3.40E-08
URI (Δ CDF)	-3.00E-08	1.30E-08	1.10E-08	1.10E-08	1.10E-08	1.10E-08	-2.70E-08	-2.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.54E-08	3.50E-08	3.50E-08	3.00E-08	3.20E-08	4.10E-08	4.00E-09	8.00E-09

Licensee Comments:

4Q/09: PRA coefficients were changed for 4Q09 to be consistent with the plant model of record (PRA-09-012). The small LOCA (SL) initiating event frequency has been revised to remove conservatisms and double counting of consequential small LOCA. The revised SL value is consistent with NUREG/CR-6928. Also, the PRA model now credits the Respiratory and Service Air System (RSAS) as backup to the Instrument Air System. These changes contributed to decreasing Birnbaum values for the EDG System.

Mitigating Systems Performance Index, High Pressure Injection System



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

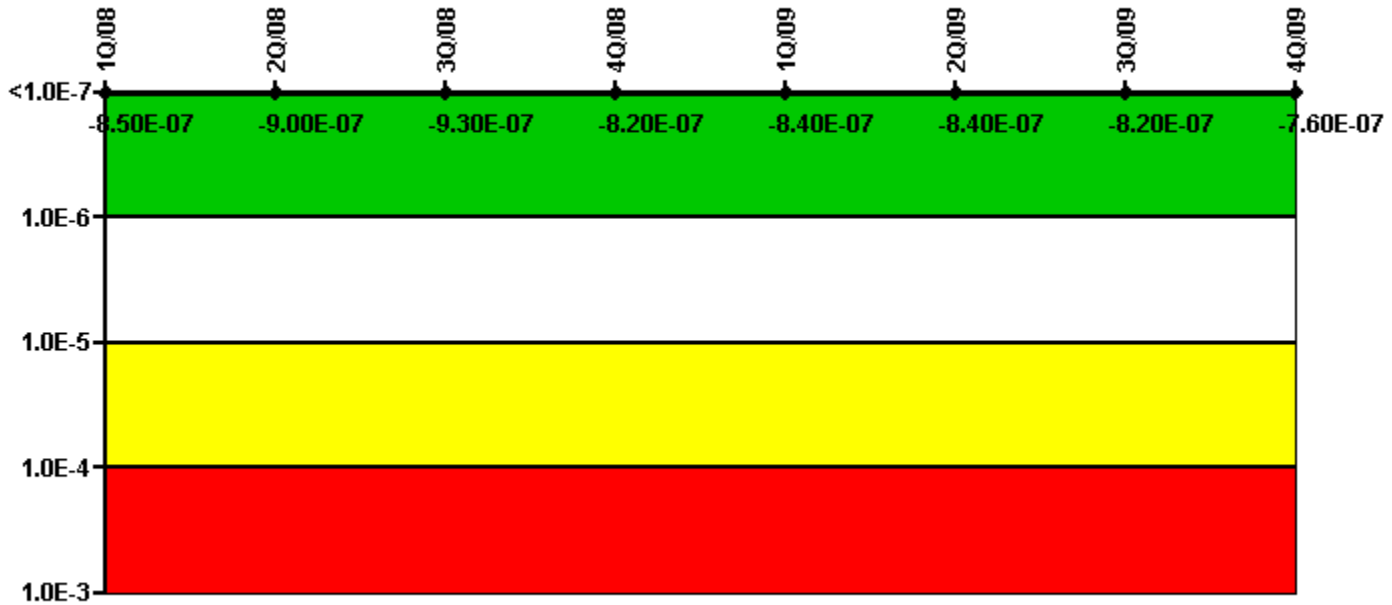
Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	-1.80E-07	-2.00E-07	-2.10E-07	-2.10E-07	-2.50E-08	5.40E-07	3.10E-07	9.90E-08
URI (Δ CDF)	-1.30E-07	-1.30E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.40E-07	-1.40E-07	-5.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.10E-07	-3.30E-07	-3.50E-07	-3.50E-07	-1.65E-07	4.00E-07	1.70E-07	4.80E-08

Licensee Comments:

4Q/09: PRA coefficients were changed for 4Q09 to be consistent with the plant model of record (PRA-09-012). The small LOCA (SL) initiating event frequency has been revised to remove conservatisms and double counting of consequential small LOCA, contributing to a decrease of Birnbaum values for the HPSI System. The revised SL value is consistent with NUREG/CR-6928.

Mitigating Systems Performance Index, Heat Removal System



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

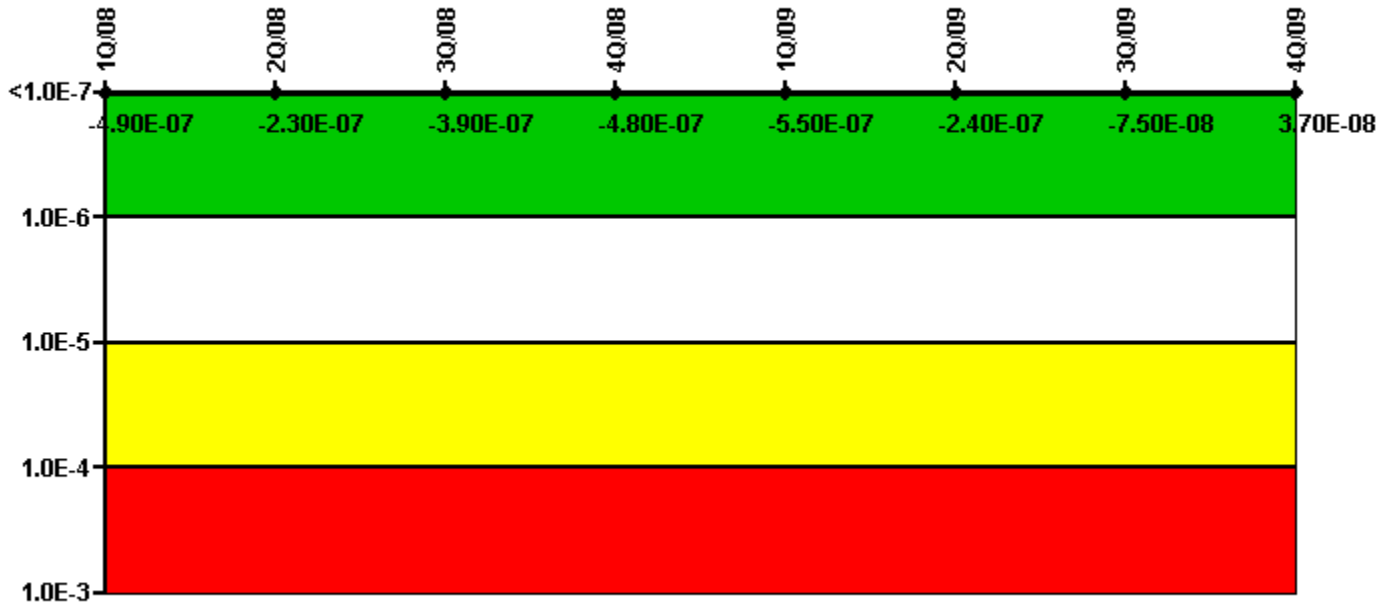
Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	$-2.40E-07$	$-2.80E-07$	$-2.10E-07$	$-2.50E-07$	$-2.70E-07$	$-2.70E-07$	$-2.20E-07$	$-2.00E-07$
URI (Δ CDF)	$-6.10E-07$	$-6.20E-07$	$-7.20E-07$	$-5.70E-07$	$-5.70E-07$	$-5.70E-07$	$-6.00E-07$	$-5.60E-07$
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	$-8.50E-07$	$-9.00E-07$	$-9.30E-07$	$-8.20E-07$	$-8.40E-07$	$-8.40E-07$	$-8.20E-07$	$-7.60E-07$

Licensee Comments:

4Q/09: PRA coefficients were changed for 4Q09 to be consistent with the plant model of record (PRA-09-012). The small LOCA (SL) initiating event frequency has been revised to remove conservatisms and double counting of consequential small LOCA. The revised SL value is consistent with NUREG/CR-6928. Also, the PRA model now credits the Respiratory and Service Air System (RSAS) as backup to the Instrument Air System. These changes contributed to decreasing Birnbaum values for the AFW System.

Mitigating Systems Performance Index, Residual Heat Removal System



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

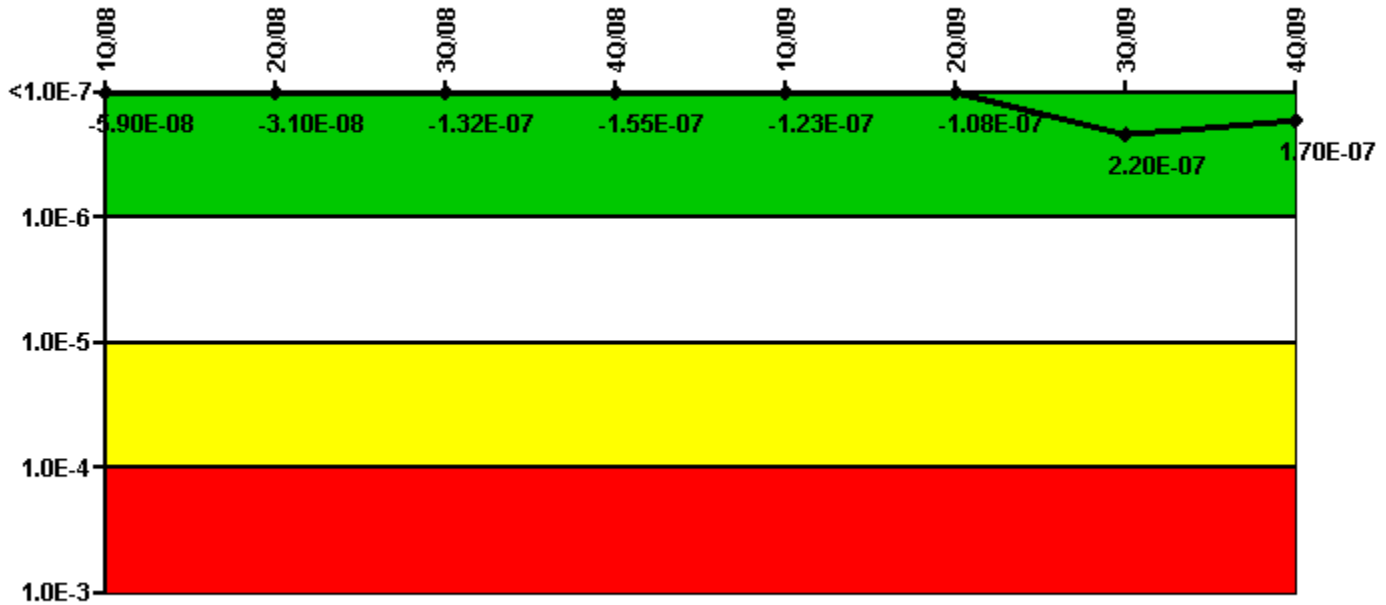
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	-3.90E-07	-1.30E-07	-2.80E-07	-3.70E-07	-4.40E-07	-1.30E-07	3.50E-08	6.30E-08
URI (Δ CDF)	-1.00E-07	-1.00E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.10E-07	-1.10E-07	-2.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.90E-07	-2.30E-07	-3.90E-07	-4.80E-07	-5.50E-07	-2.40E-07	-7.50E-08	3.70E-08

Licensee Comments:

4Q/09: PRA coefficients were changed for 4Q09 to be consistent with the plant model of record (PRA-09-012). The small LOCA (SL) initiating event frequency has been revised to remove conservatisms and double counting of consequential small LOCA, contributing to a decrease of Birnbaum values for the RHR System. The revised SL value is consistent with NUREG/CR-6928.

Mitigating Systems Performance Index, Cooling Water Systems



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

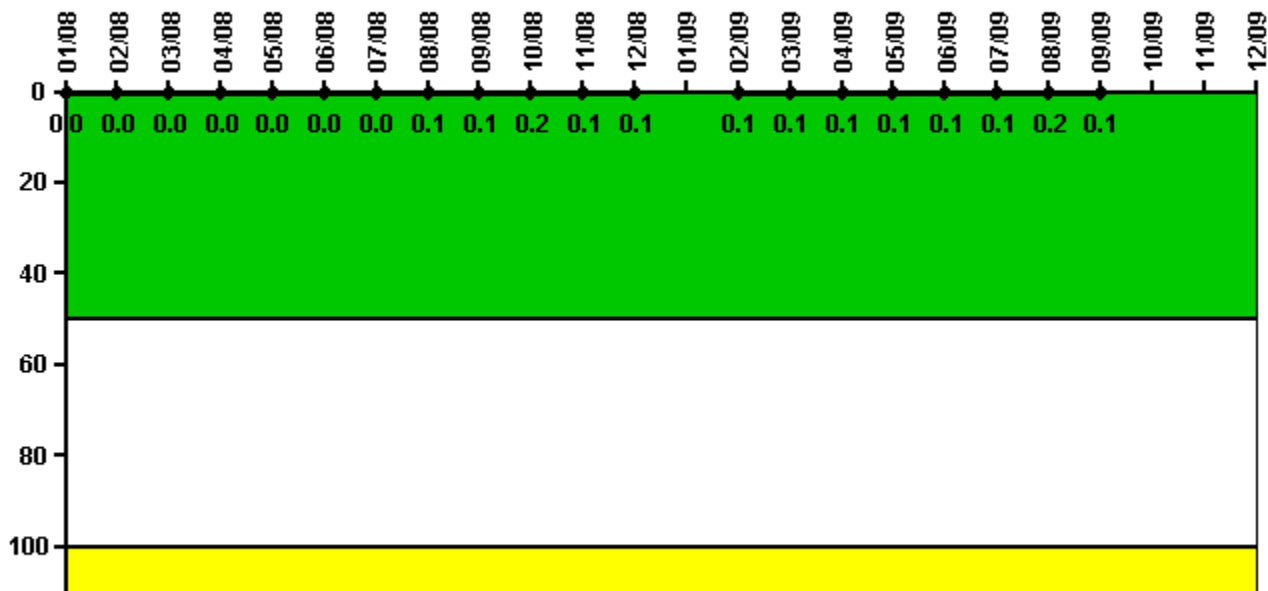
Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (Δ CDF)	3.40E-08	6.20E-08	3.80E-08	4.70E-09	3.70E-08	5.20E-08	3.80E-07	2.90E-07
URI (Δ CDF)	-9.30E-08	-9.30E-08	-1.70E-07	-1.60E-07	-1.60E-07	-1.60E-07	-1.60E-07	-1.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.90E-08	-3.10E-08	-1.32E-07	-1.55E-07	-1.23E-07	-1.08E-07	2.20E-07	1.70E-07

Licensee Comments:

4Q/09: PRA coefficients were changed for 4Q09 to be consistent with the plant model of record (PRA-09-012). The small LOCA (SL) initiating event frequency has been revised to remove conservatisms and double counting of consequential small LOCA, contributing to a decrease of Birnbaum values for the support cooling water system. The revised SL value is consistent with NUREG/CR-6928.

Reactor Coolant System Activity



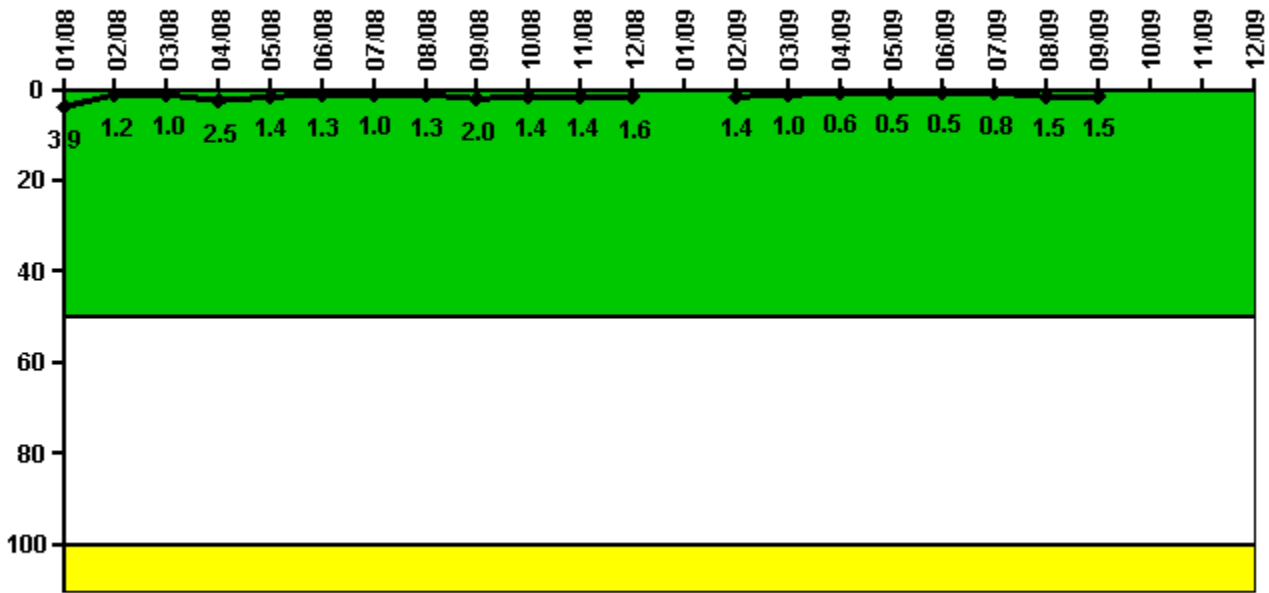
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum activity	0.000270	0.000255	0.000338	0.000354	0.000335	0.000486	0.000434	0.000919	0.001010	0.001550	0.001260	0.001320
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	0	0	0.1	0.1	0.2	0.1	0.1
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

Licensee Comments: none

Reactor Coolant System Leakage



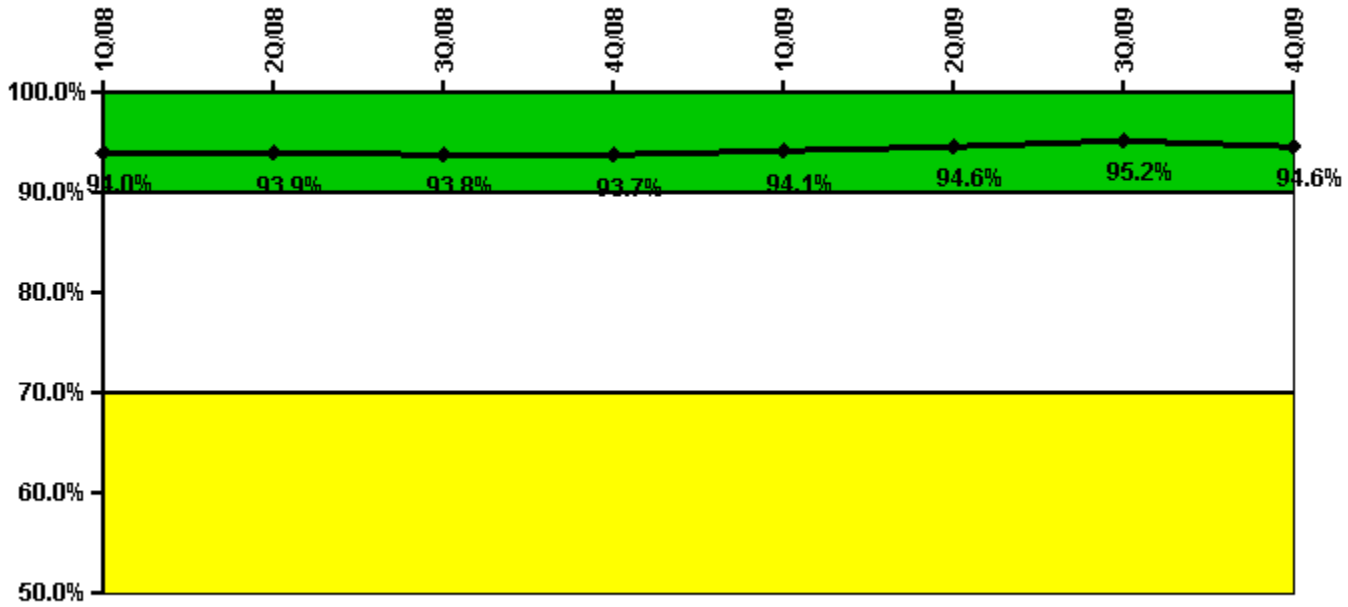
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum leakage	0.390	0.120	0.100	0.250	0.140	0.130	0.100	0.130	0.200	0.140	0.140	0.160
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	3.9	1.2	1.0	2.5	1.4	1.3	1.0	1.3	2.0	1.4	1.4	1.6
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

Licensee Comments: none

Drill/Exercise Performance



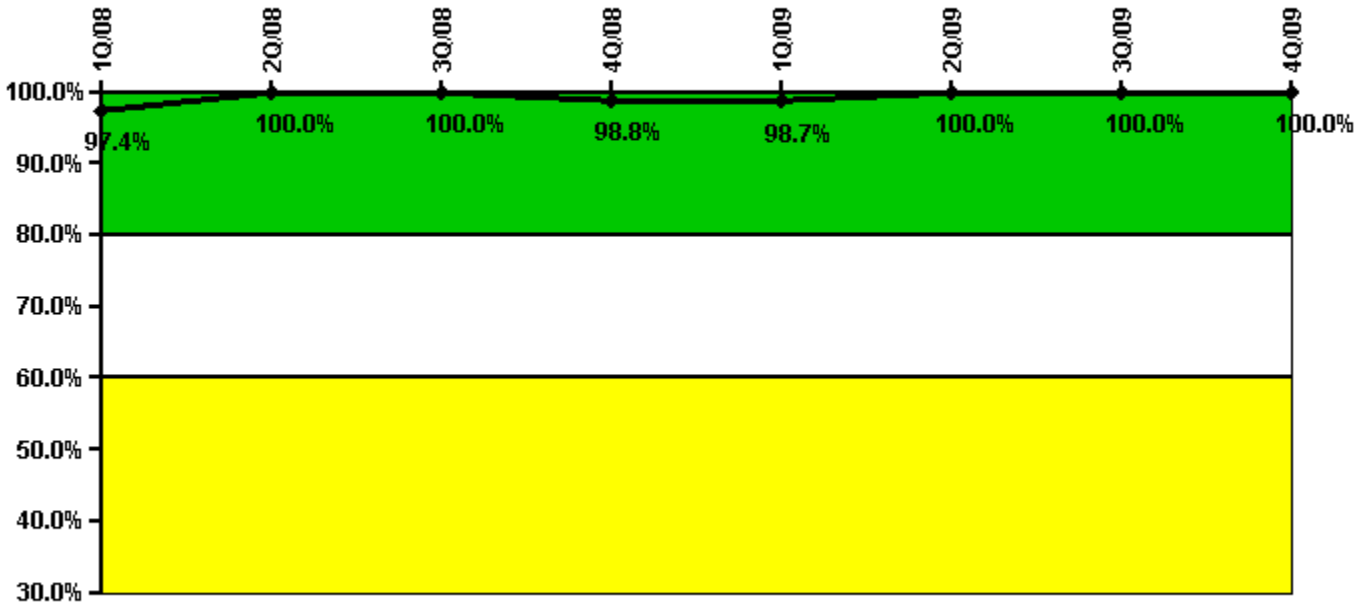
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful opportunities	0	31.0	28.0	60.0	15.0	89.0	33.0	24.0
Total opportunities	0	34.0	29.0	63.0	15.0	93.0	38.0	24.0
Indicator value	94.0%	93.9%	93.8%	93.7%	94.1%	94.6%	95.2%	94.6%

Licensee Comments: none

ERO Drill Participation



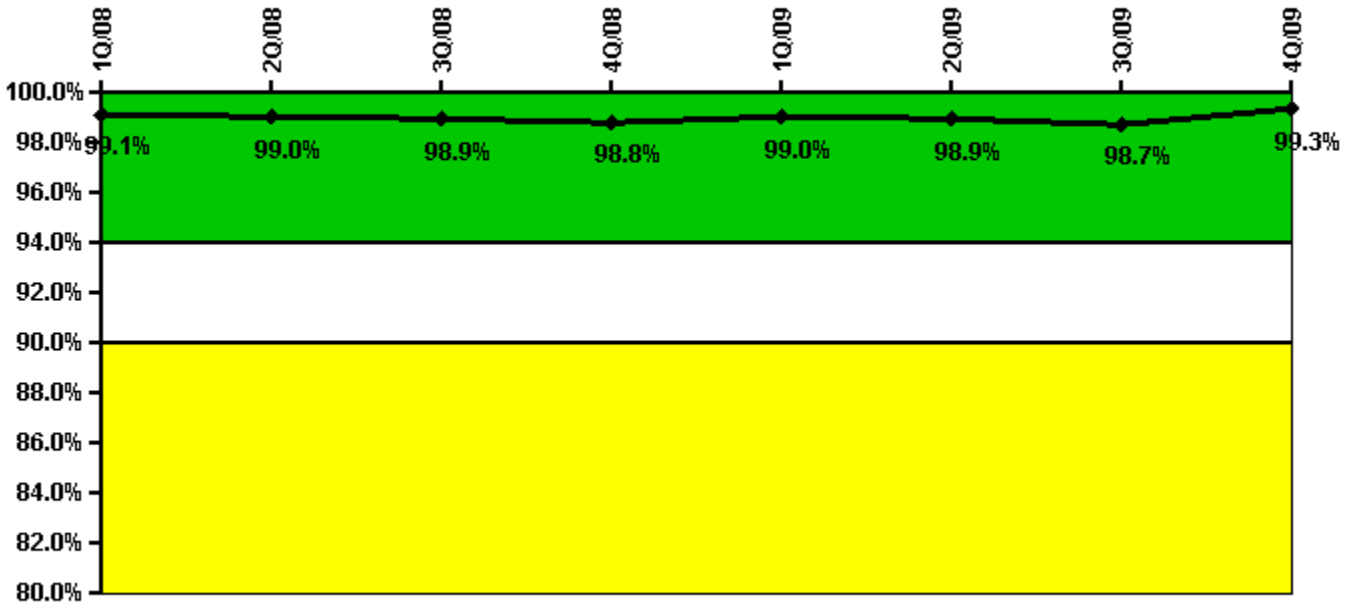
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Participating Key personnel	74.0	77.0	77.0	80.0	76.0	74.0	74.0	79.0
Total Key personnel	76.0	77.0	77.0	81.0	77.0	74.0	74.0	79.0
Indicator value	97.4%	100.0%	100.0%	98.8%	98.7%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



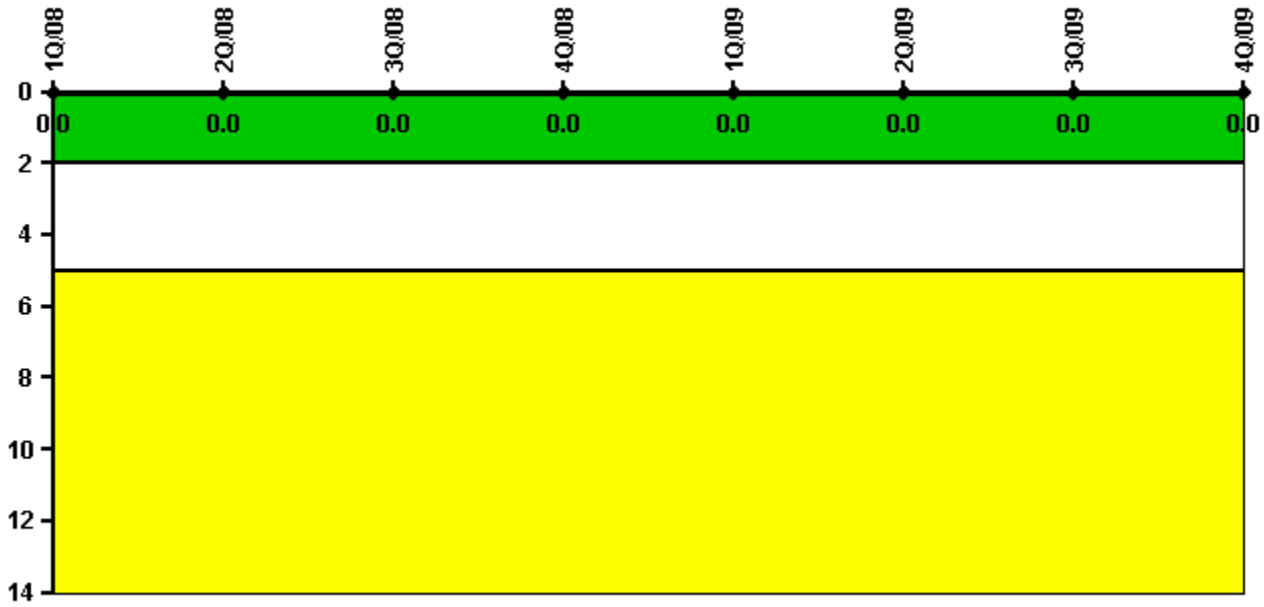
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful siren-tests	404	414	413	457	415	360	359	519
Total sirens-tests	409	416	416	468	416	364	364	520
Indicator value	99.1%	99.0%	98.9%	98.8%	99.0%	98.9%	98.7%	99.3%

Licensee Comments: none

Occupational Exposure Control Effectiveness



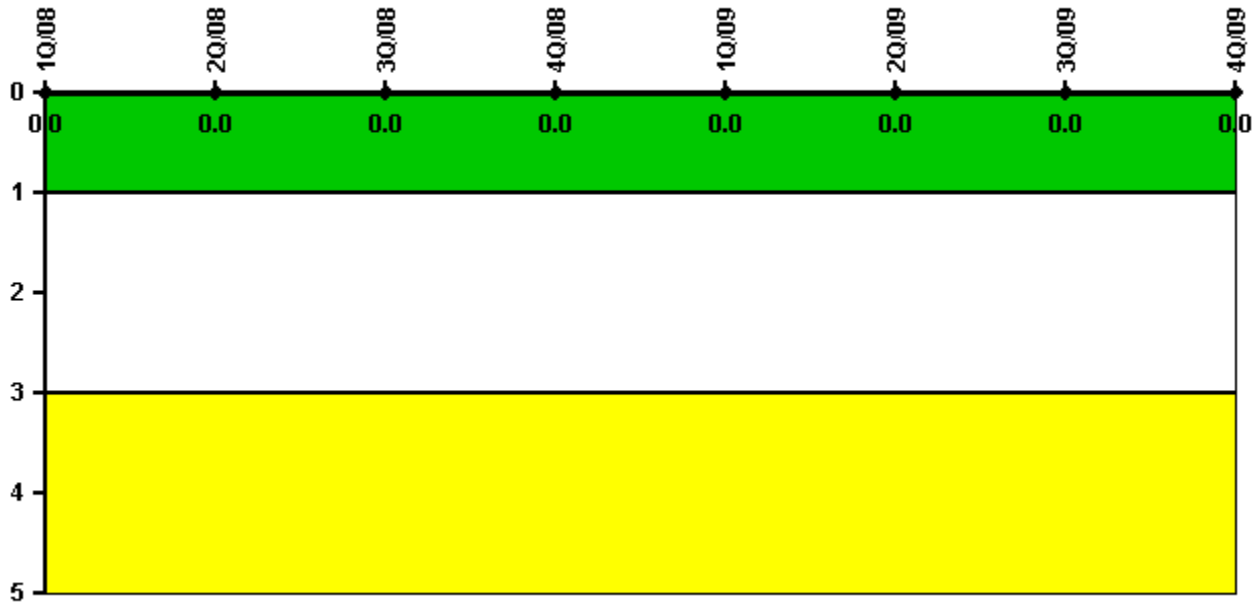
Thresholds: White > 2.0 Yellow > 5.0

Notes

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