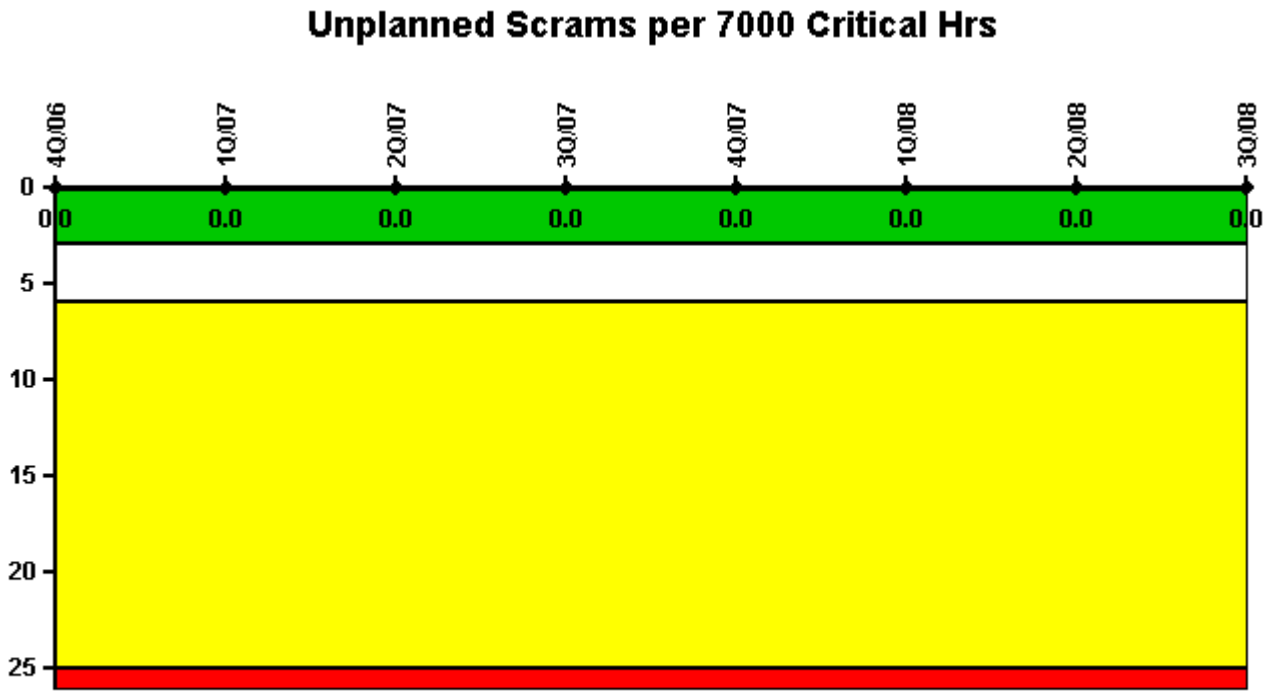
Byron 1

3Q/2008 Performance Indicators

Licensee's General Comments: none



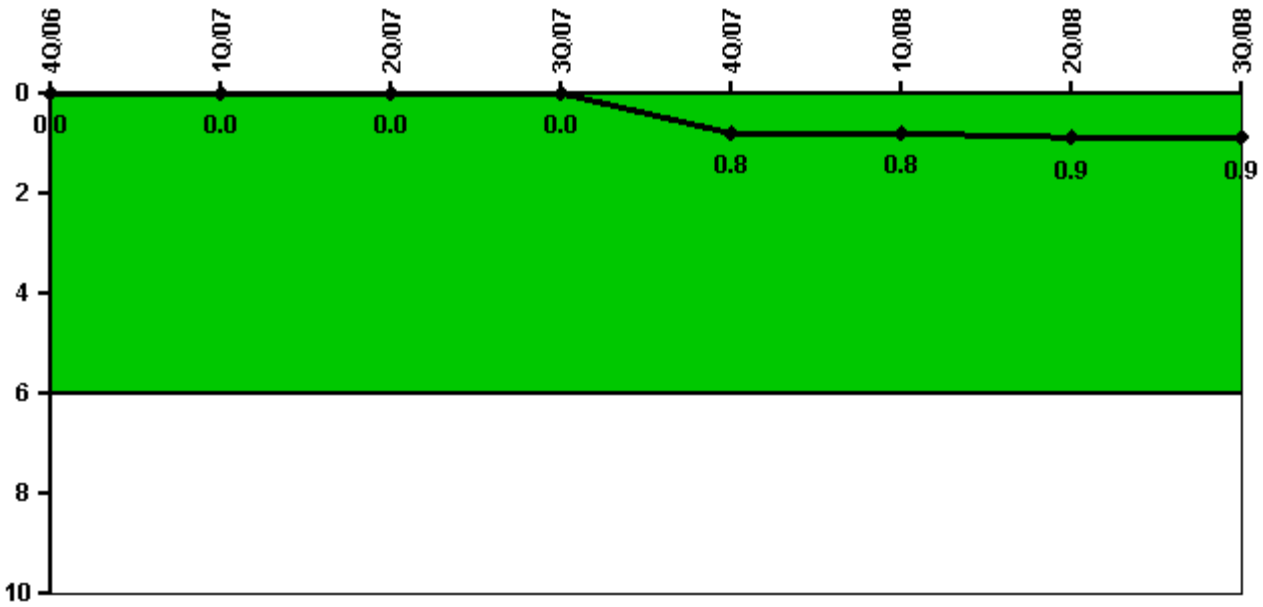
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1855.6	2159.0	2184.0	2208.0	1944.2	1990.0	1868.7	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



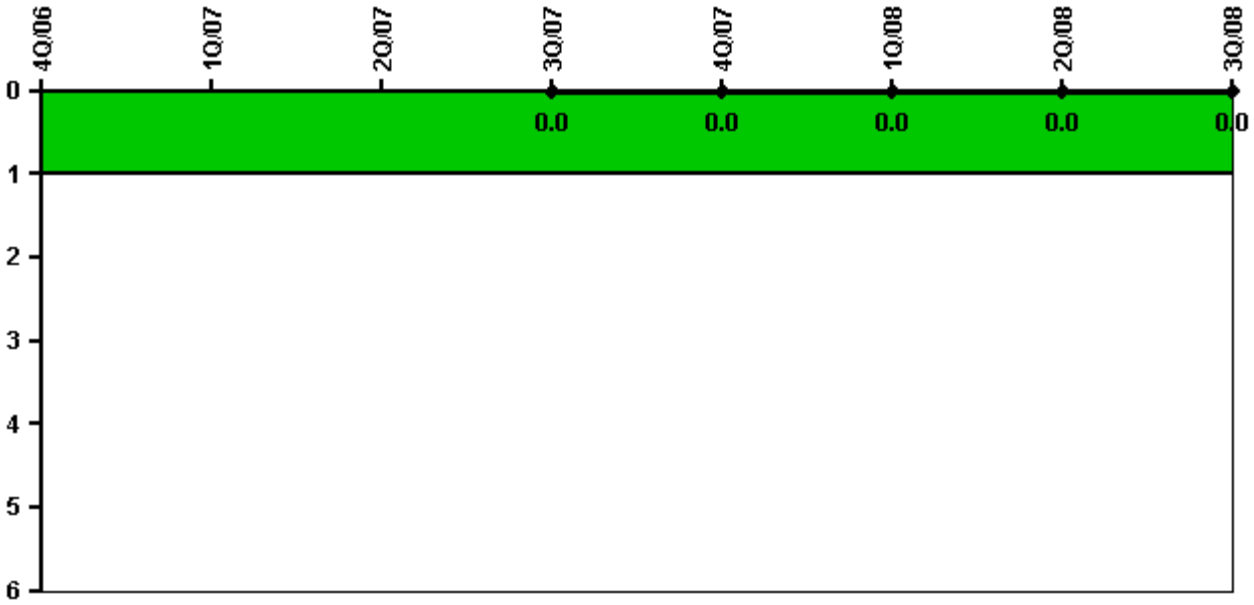
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	1855.6	2159.0	2184.0	2208.0	1944.2	1990.0	1868.7	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0.8**	**0.8**	**0.9**	**0.9**

Licensee Comments: none

Unplanned Scrams with Complications



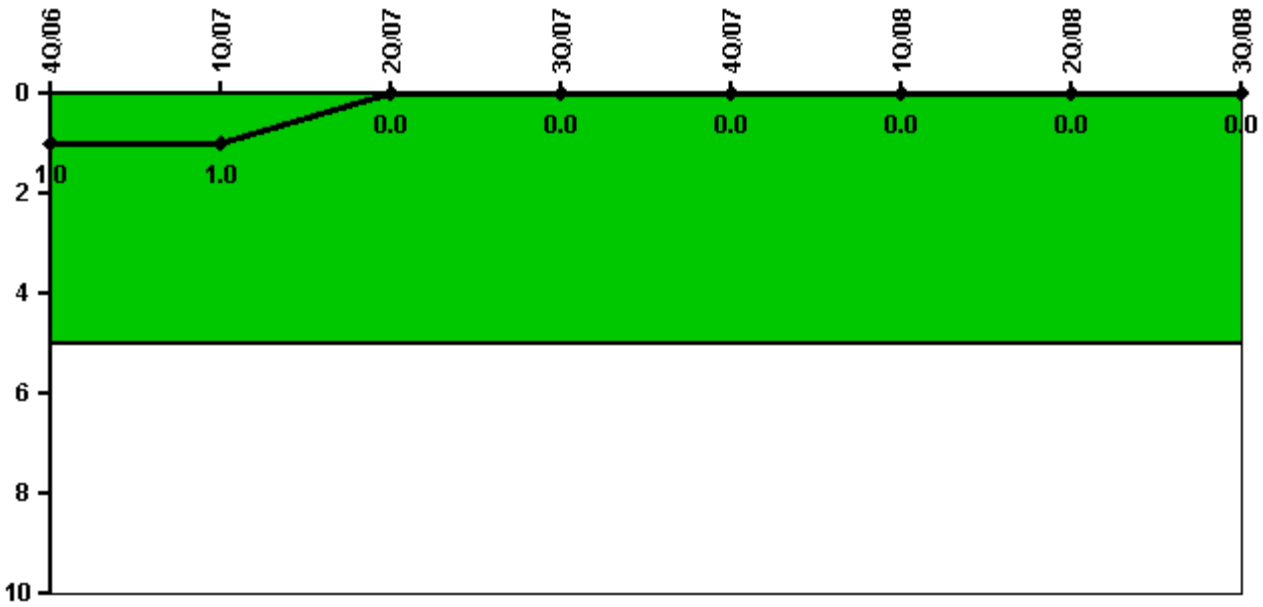
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value				**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)



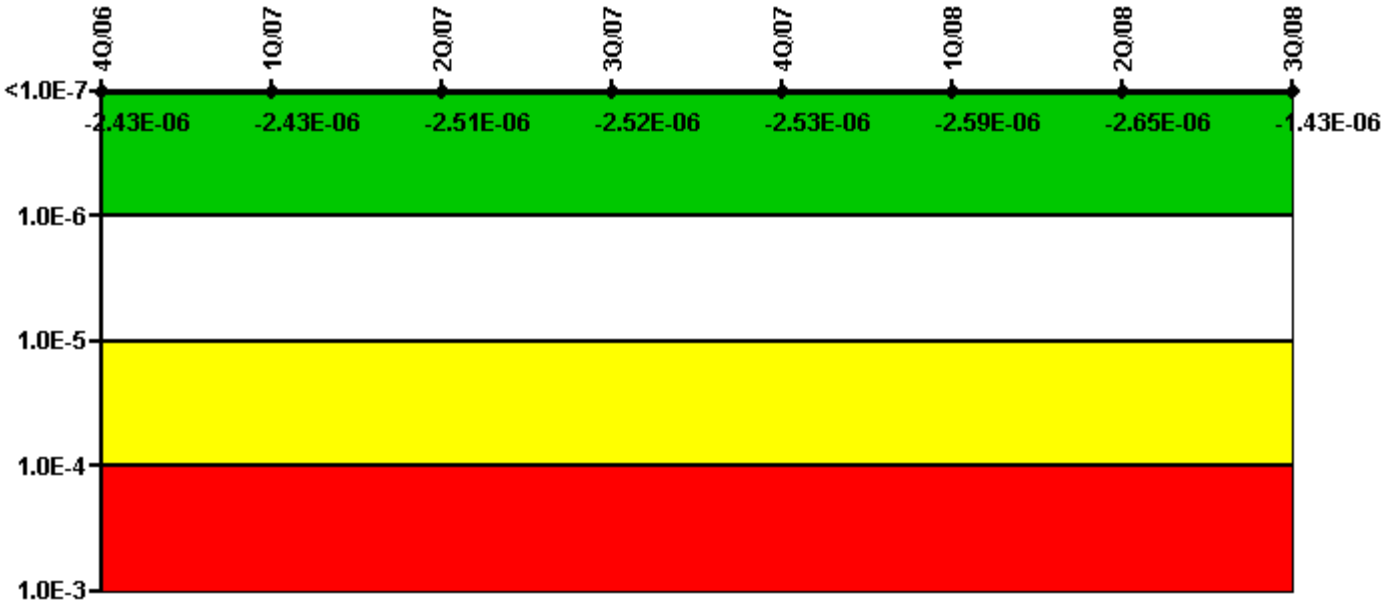
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System



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

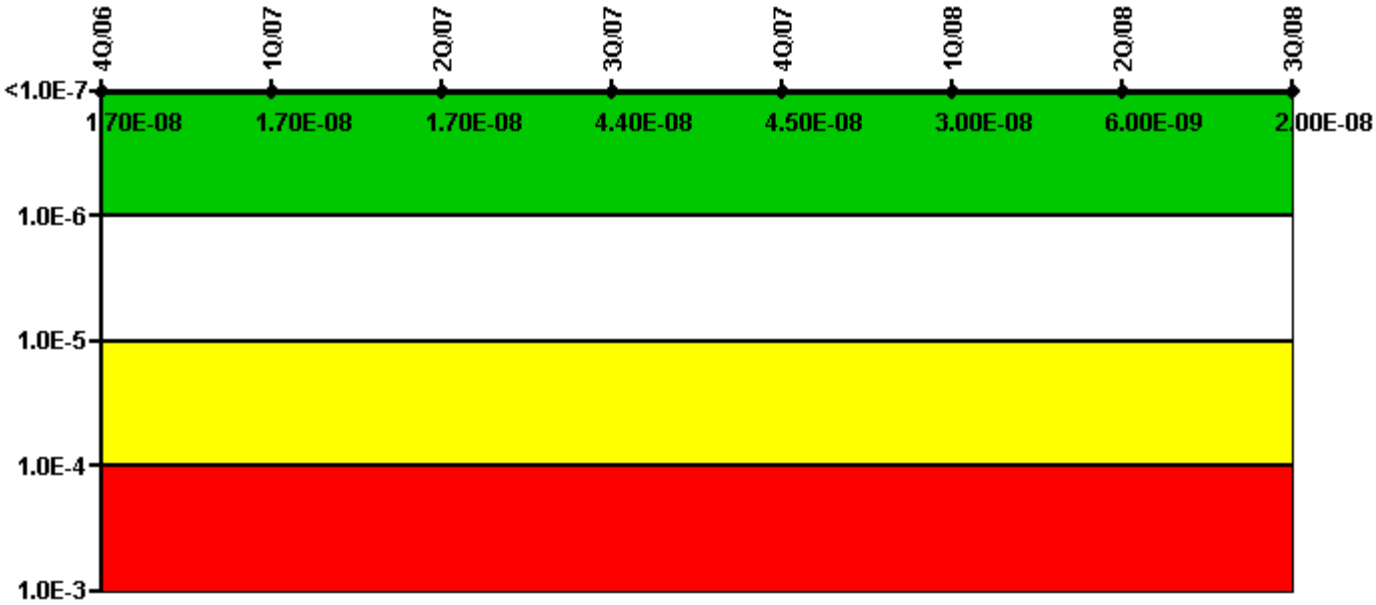
Notes

Mitigating Systems Performance Index, Emergency AC Power System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	7.30E-08	7.30E-08	8.90E-08	7.80E-08	7.50E-08	8.30E-09	-4.50E-08	-2.90E-08
URI (ΔCDF)	-2.50E-06	-2.50E-06	-2.60E-06	-2.60E-06	-2.60E-06	-2.60E-06	-2.60E-06	-1.40E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.43E-06**	**-2.43E-06**	**-2.51E-06**	**-2.52E-06**	**-2.53E-06**	**-2.59E-06**	**-2.65E-06**	**-1.43E-06**

Licensee Comments:

3Q/08: 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

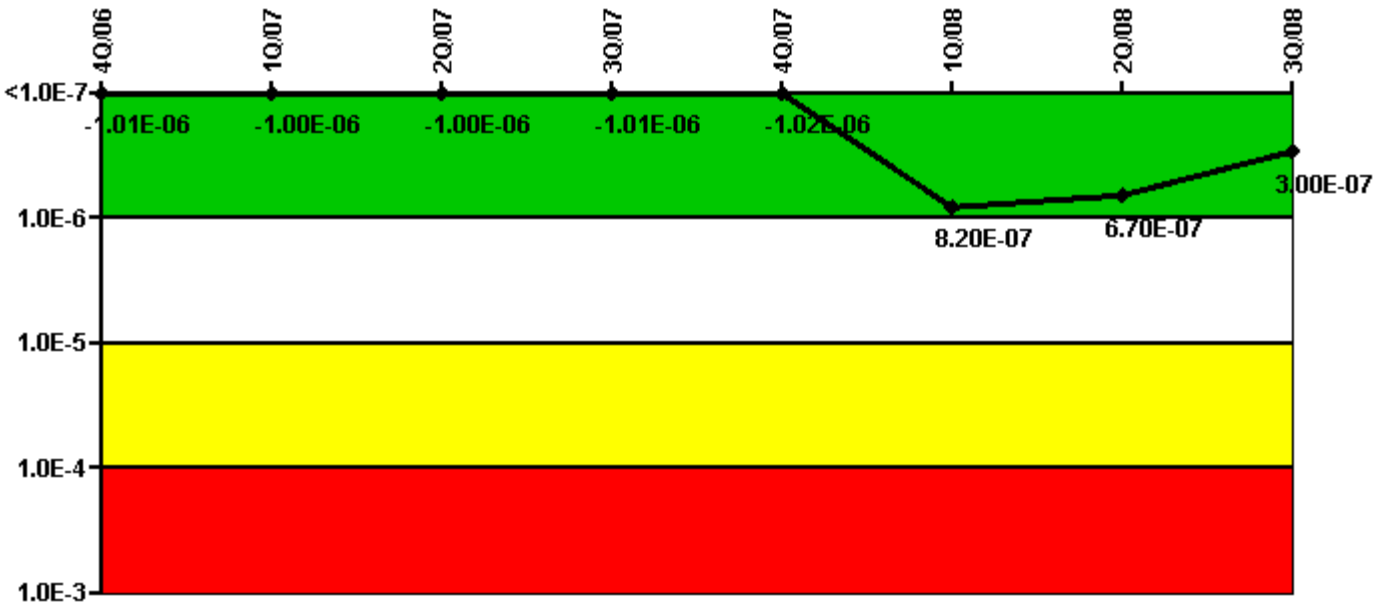
Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	3.10E-08	3.10E-08	3.10E-08	5.80E-08	5.90E-08	4.40E-08	2.00E-08	4.20E-08
URI (ΔCDF)	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-1.40E-08	-2.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.70E-08**	**1.70E-08**	**1.70E-08**	**4.40E-08**	**4.50E-08**	**3.00E-08**	**6.00E-09**	**2.00E-08**

Licensee Comments:

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

Mitigating Systems Performance Index, Heat Removal System



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

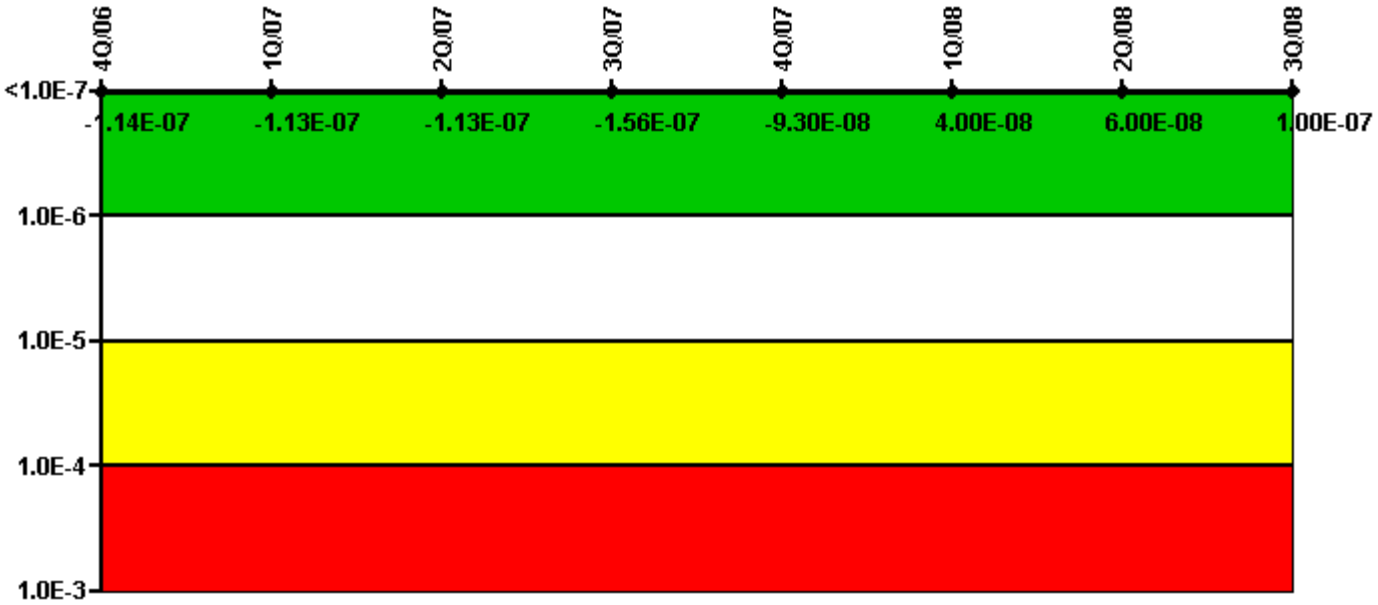
Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	8.70E-08	1.00E-07	9.70E-08	8.80E-08	8.50E-08	3.20E-07	3.60E-07	1.30E-07
URI (ΔCDF)	-1.10E-06	-1.10E-06	-1.10E-06	-1.10E-06	-1.10E-06	5.00E-07	3.10E-07	1.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.01E-06**	**-1.00E-06**	**-1.00E-06**	**-1.01E-06**	**-1.02E-06**	**8.20E-07**	**6.70E-07**	**3.00E-07**

Licensee Comments:

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

Mitigating Systems Performance Index, Residual Heat Removal System



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

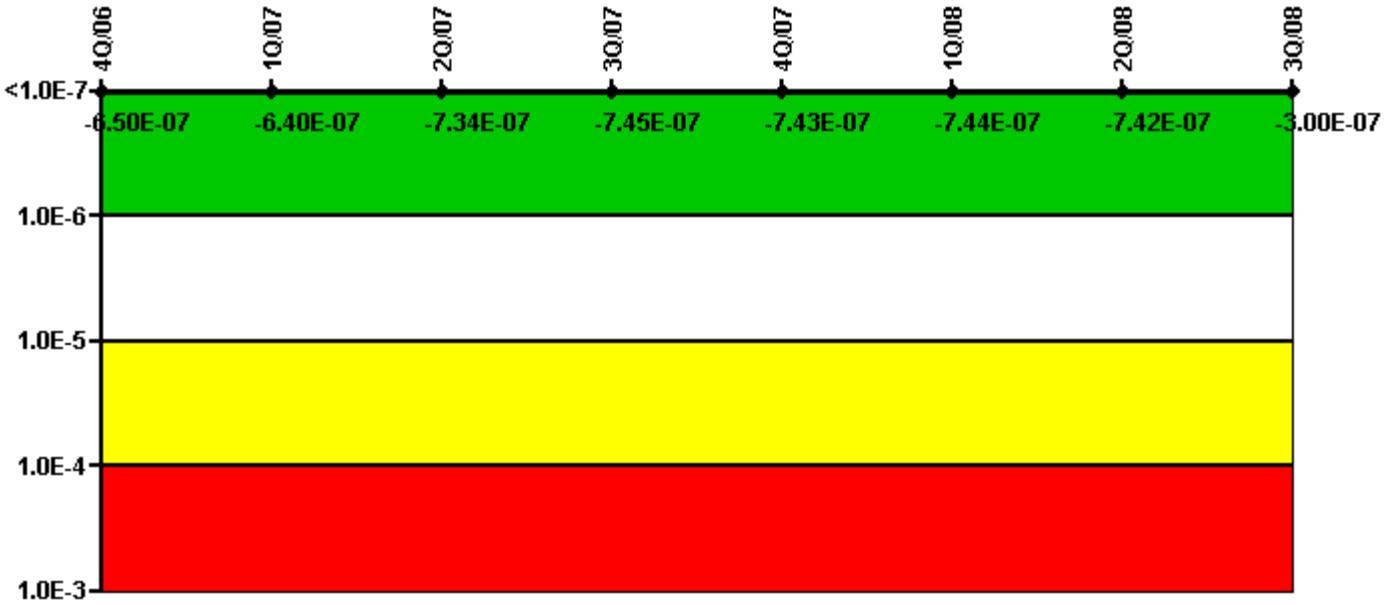
Notes

Mitigating Systems Performance Index, Residual Heat Removal System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	1.60E-08	1.70E-08	1.70E-08	-2.60E-08	4.70E-08	1.60E-07	2.00E-07	2.50E-07
URI (ΔCDF)	-1.30E-07	-1.30E-07	-1.30E-07	-1.30E-07	-1.40E-07	-1.20E-07	-1.40E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.14E-07**	**-1.13E-07**	**-1.13E-07**	**-1.56E-07**	**-9.30E-08**	**4.00E-08**	**6.00E-08**	**1.00E-07**

Licensee Comments:

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

Mitigating Systems Performance Index, Cooling Water Systems



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

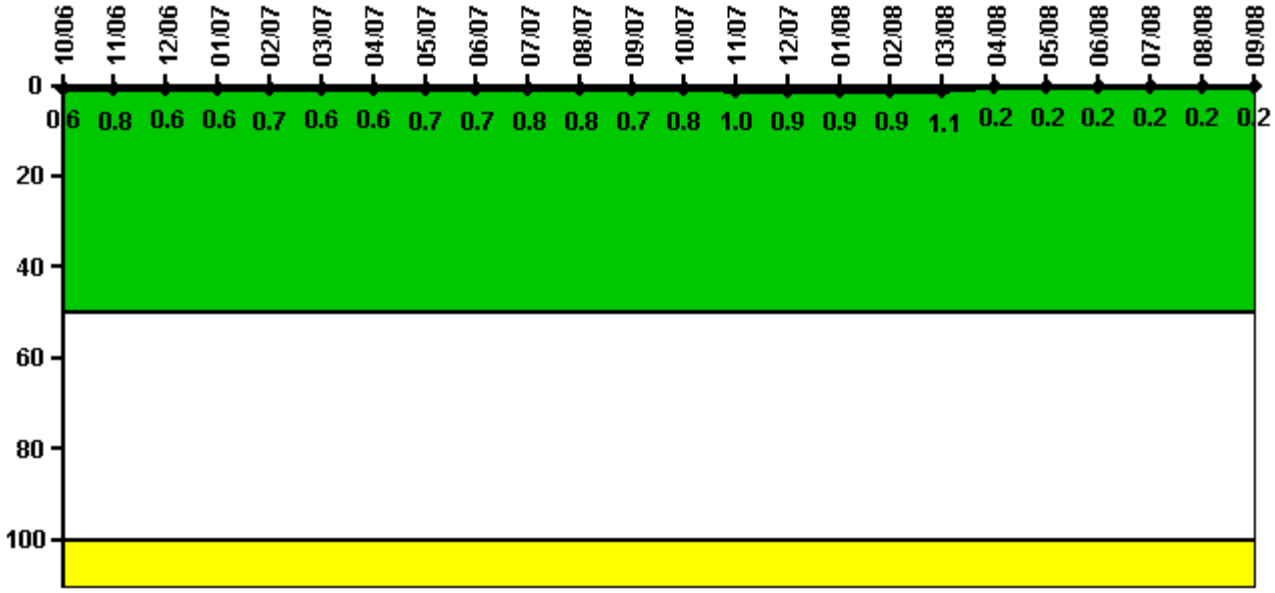
Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	1.00E-07	1.10E-07	2.60E-08	1.50E-08	1.70E-08	1.60E-08	1.80E-08	2.00E-08
URI (ΔCDF)	-7.50E-07	-7.50E-07	-7.60E-07	-7.60E-07	-7.60E-07	-7.60E-07	-7.60E-07	-3.20E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.50E-07**	**-6.40E-07**	**-7.34E-07**	**-7.45E-07**	**-7.43E-07**	**-7.44E-07**	**-7.42E-07**	**-3.00E-07**

Licensee Comments:

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

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

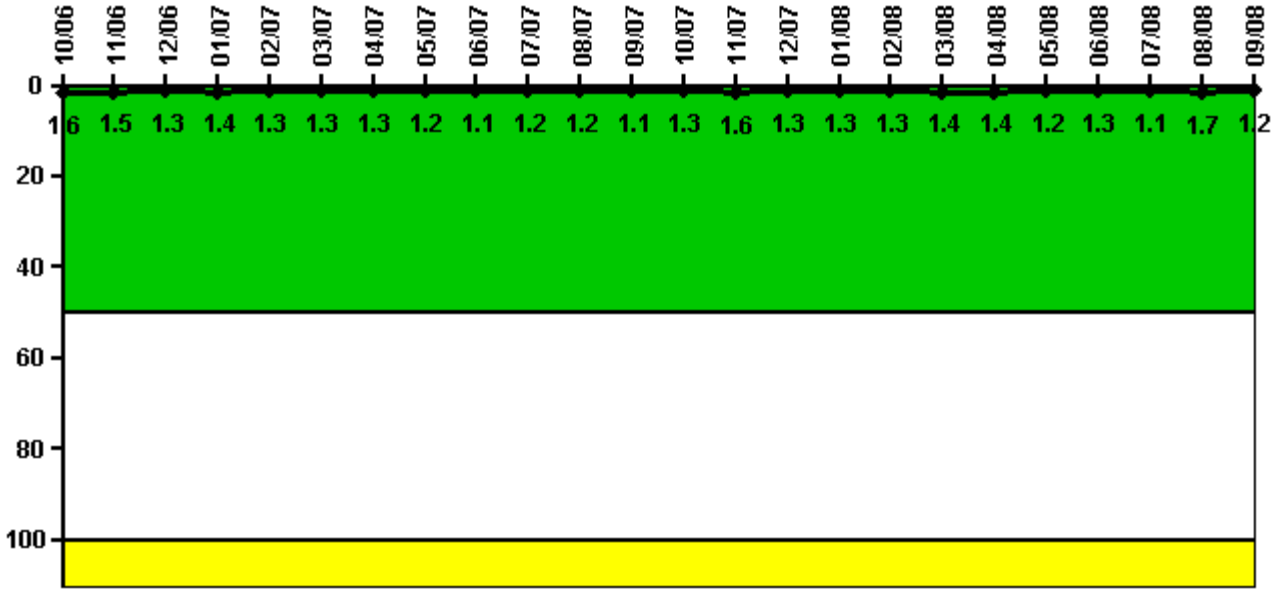
Notes

Reactor Coolant System Activity	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum activity	0.005910	0.007650	0.005730	0.006490	0.006950	0.006230	0.006430	0.007010	0.007260	0.007640	0.007650	0.007380
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	**0.6**	**0.8**	**0.6**	**0.6**	**0.7**	**0.6**	**0.6**	**0.7**	**0.7**	**0.8**	**0.8**	**0.7**

Reactor Coolant System Activity	10/07	11/07	12/07	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08
Maximum activity	0.008000	0.009550	0.008750	0.008660	0.008680	0.010500	0.001770	0.001850	0.001920	0.001970	0.002050	0.002140
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	**0.8**	**1.0**	**0.9**	**0.9**	**0.9**	**1.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Licensee Comments: none

Reactor Coolant System Leakage



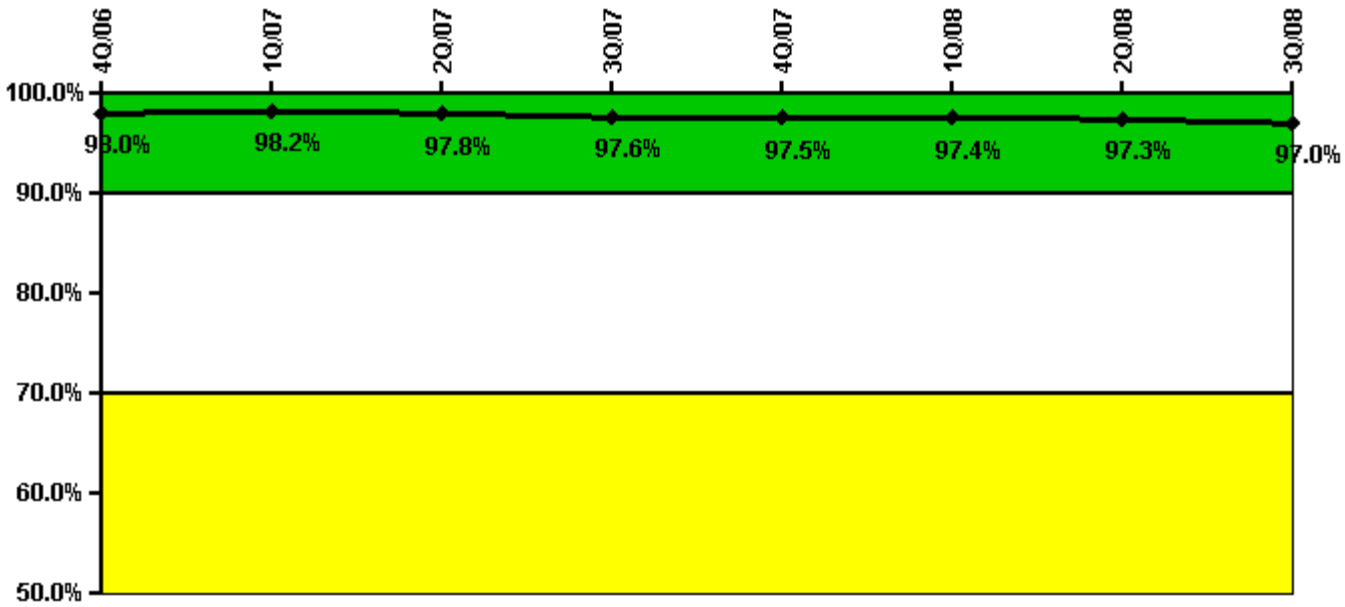
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum leakage	0.159	0.149	0.131	0.136	0.128	0.125	0.126	0.118	0.113	0.121	0.115	0.112
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	**1.6**	**1.5**	**1.3**	**1.4**	**1.3**	**1.3**	**1.3**	**1.2**	**1.1**	**1.2**	**1.2**	**1.1**
Reactor Coolant System Leakage	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**
Maximum leakage	0.132	0.160	0.134	0.132	0.130	0.141	0.140	0.118	0.125	0.108	0.172	0.123
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	**1.3**	**1.6**	**1.3**	**1.3**	**1.3**	**1.4**	**1.4**	**1.2**	**1.3**	**1.1**	**1.7**	**1.2**

Licensee Comments: none

Drill/Exercise Performance



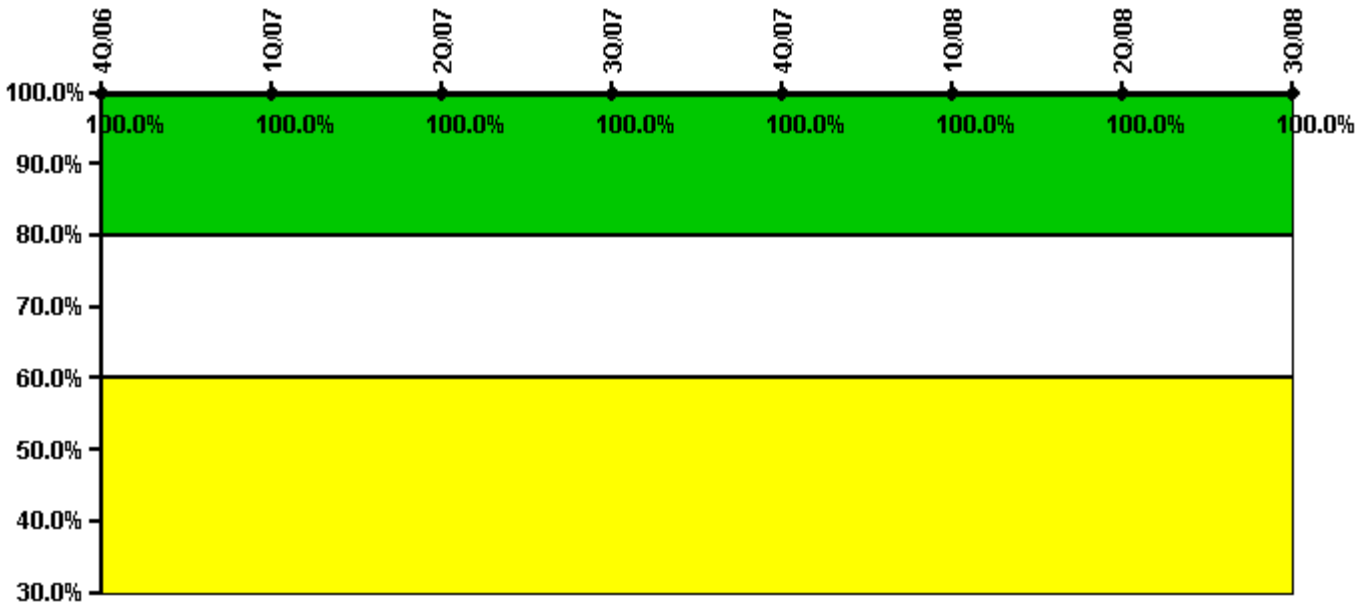
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful opportunities	40.0	10.0	45.0	43.0	88.0	4.0	27.0	62.0
Total opportunities	40.0	10.0	49.0	44.0	90.0	4.0	28.0	64.0
Indicator value	**98.0%**	**98.2%**	**97.8%**	**97.6%**	**97.5%**	**97.4%**	**97.3%**	**97.0%**

Licensee Comments: none

ERO Drill Participation



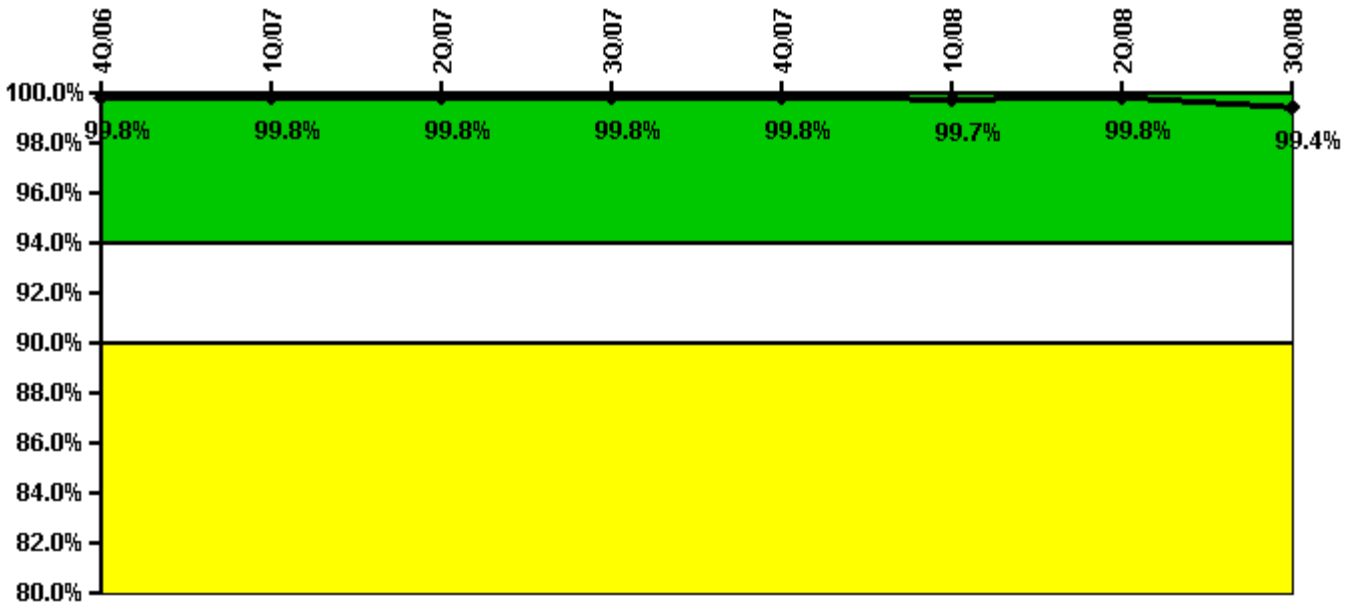
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Participating Key personnel	76.0	71.0	66.0	75.0	75.0	73.0	81.0	83.0
Total Key personnel	76.0	71.0	66.0	75.0	75.0	73.0	81.0	83.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System



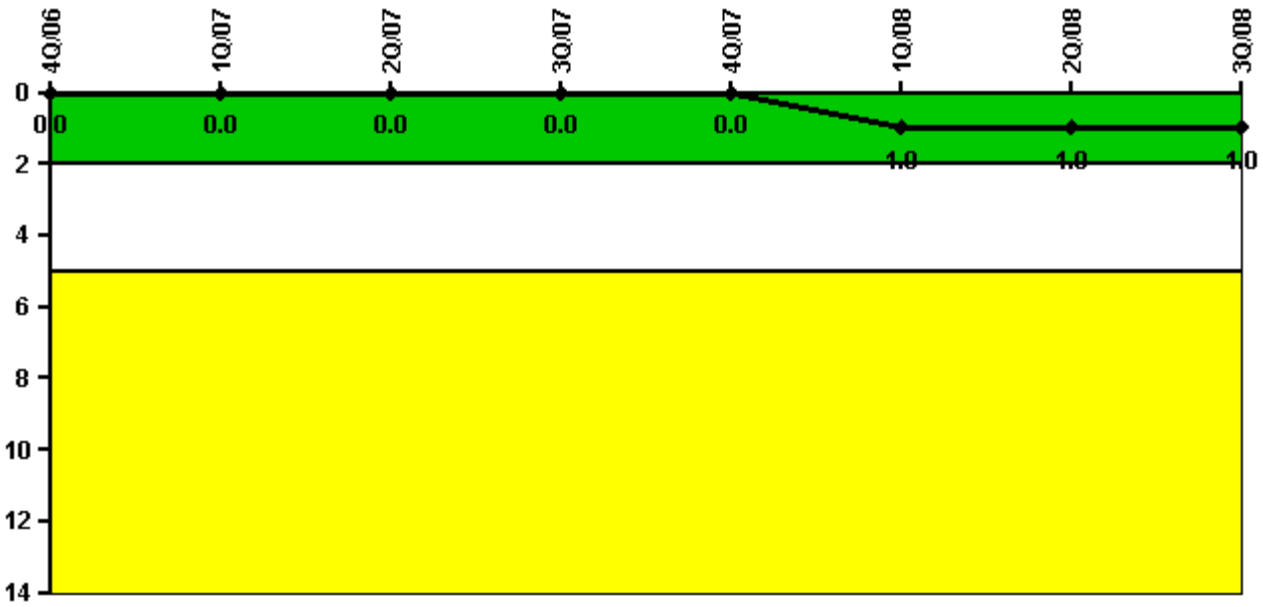
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful siren-tests	5915	6008	5985	5988	5997	5996	6003	6006
Total sirens-tests	5922	6016	6005	6009	6007	6011	6016	6108
Indicator value	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.7%**	**99.8%**	**99.4%**

Licensee Comments: none

Occupational Exposure Control Effectiveness



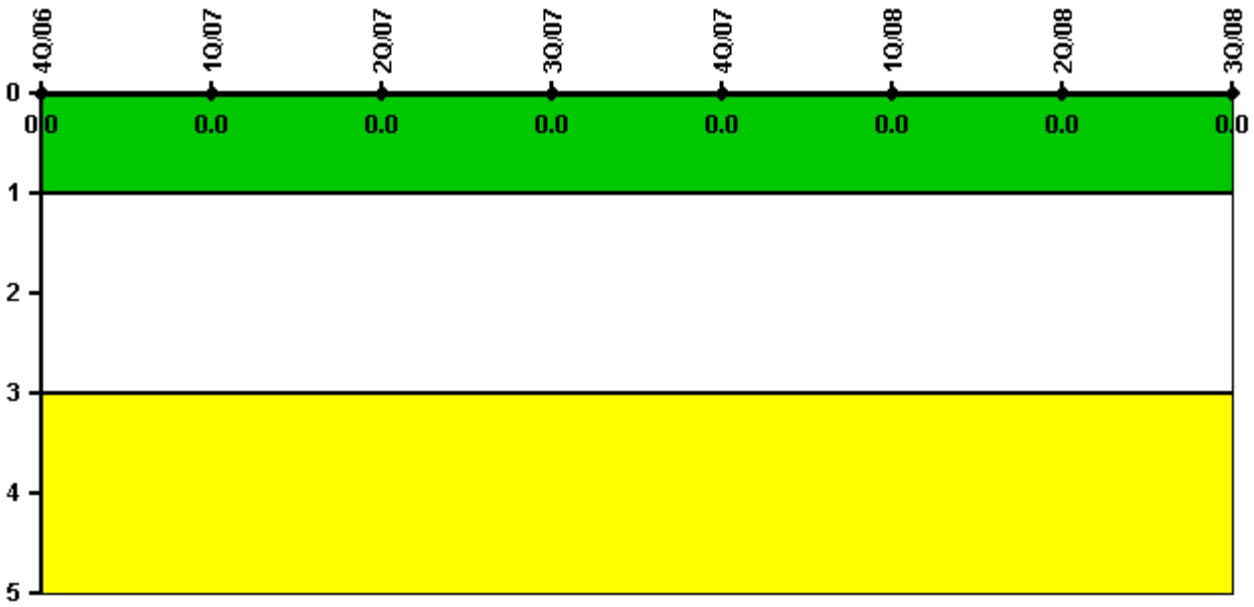
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**1**

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
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.

Last Modified: November 26, 2008