

Surry 1

1Q/2012 Performance Indicators

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

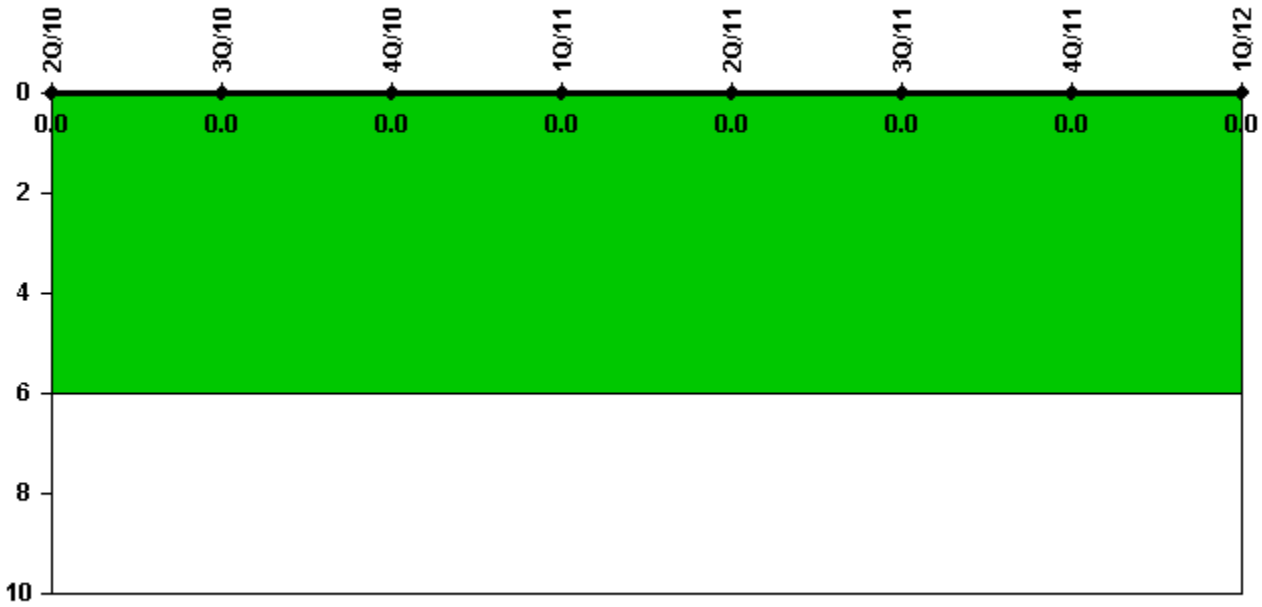
Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned scrams	1.0	0	0	0	1.0	0	0	0
Critical hours	2107.0	2208.0	1290.0	2159.0	2027.6	2208.0	2209.0	2183.0
Indicator value	0.8	0.8	0.9	0.9	0.9	0.9	0.8	0.8

Licensee Comments:

2Q/10: Unit 1 trip on June 8, 2010 due to loss of Vital bus. See LER 50-280/2010-003-00

Unplanned Power Changes per 7000 Critical Hrs



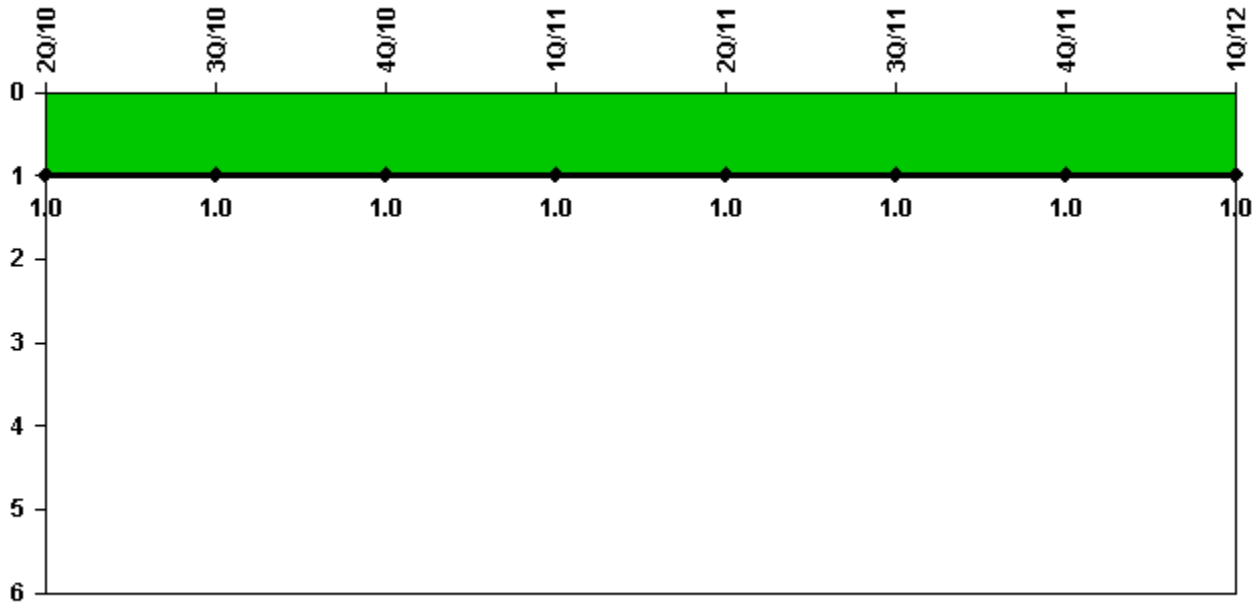
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2107.0	2208.0	1290.0	2159.0	2027.6	2208.0	2209.0	2183.0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

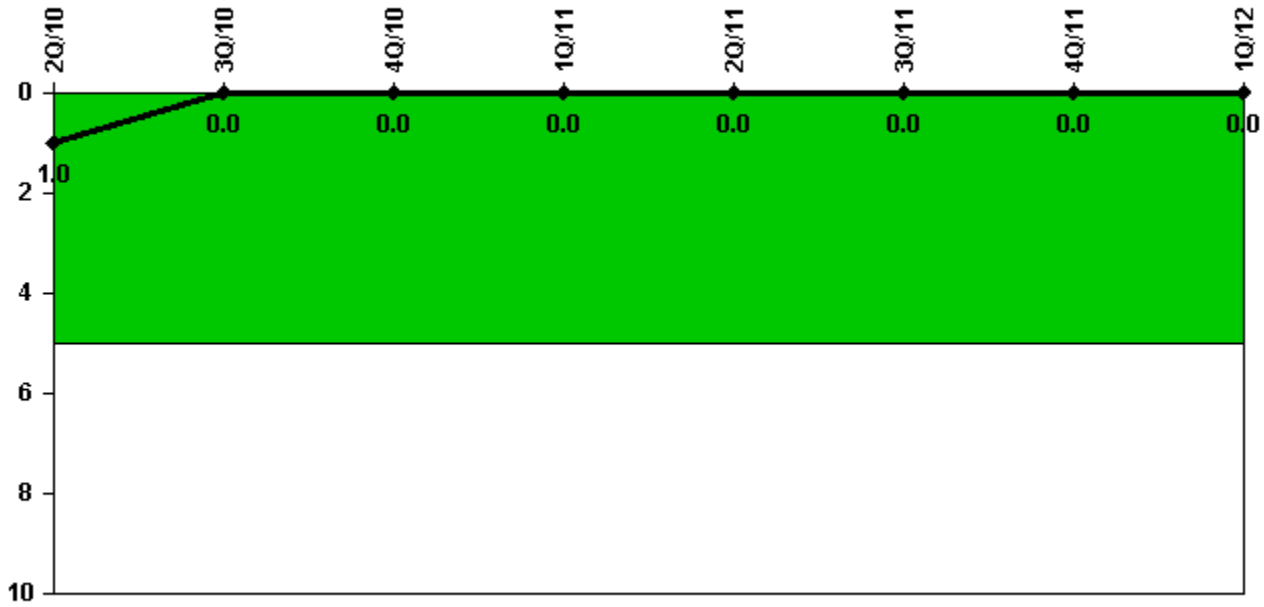
Notes

Unplanned Scrams with Complications	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Scrams with complications	1.0	0	0	0	1.0	0	0	0
Indicator value	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

Licensee Comments:

2Q/10: Unit 1 trip on June 8, 2010 due to loss of Vital bus. See LER 50-280/2010-003-00

Safety System Functional Failures (PWR)



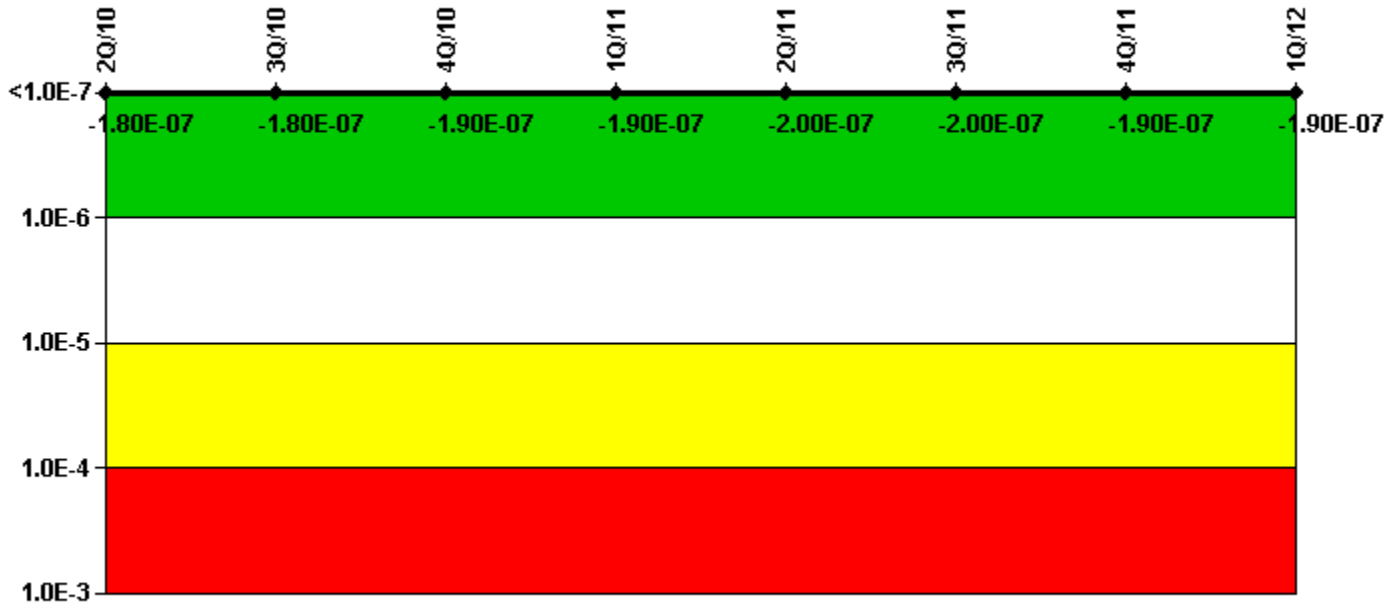
Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	1	0	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

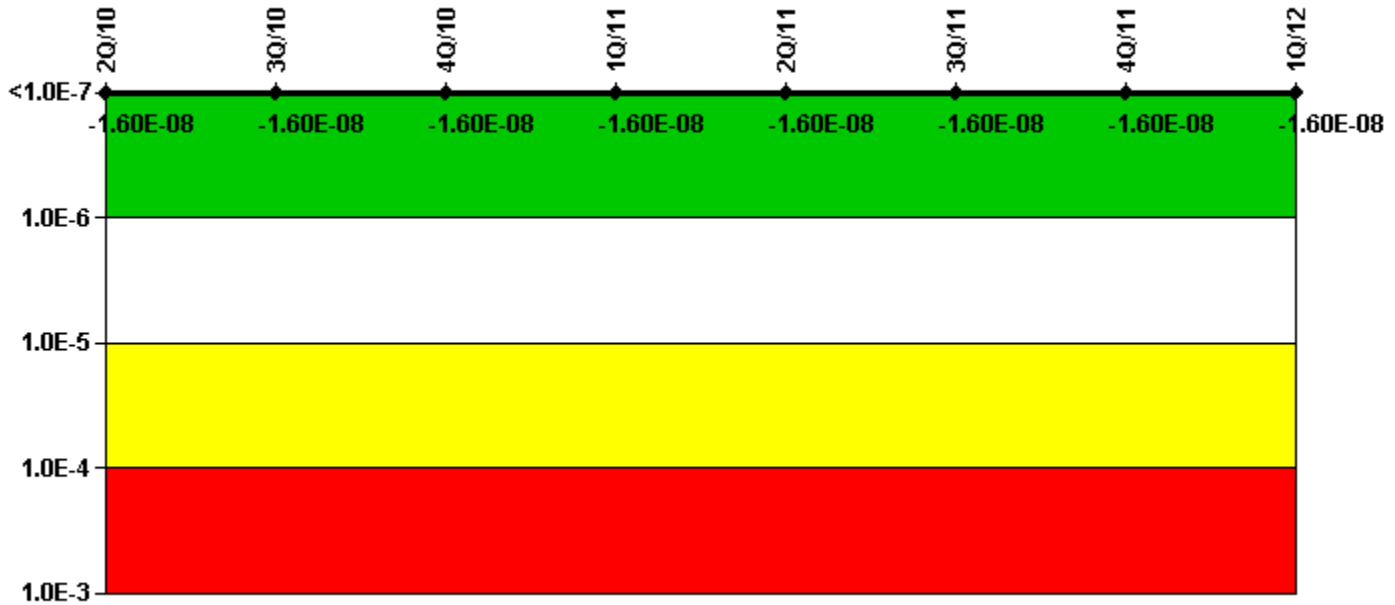
Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	-9.41E-09	-1.65E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08	-1.66E-08
URI (Δ CDF)	-1.71E-07	-1.67E-07	-1.69E-07	-1.70E-07	-1.80E-07	-1.80E-07	-1.77E-07	-1.74E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.80E-07	-1.80E-07	-1.90E-07	-1.90E-07	-2.00E-07	-2.00E-07	-1.90E-07	-1.90E-07

Licensee Comments:

1Q/11: An NRC assessment identified several instances of unplanned unavailability and post maintenance test demands that were reported incorrectly. Historical data was corrected with no change in color.

Mitigating Systems Performance Index, High Pressure Injection System



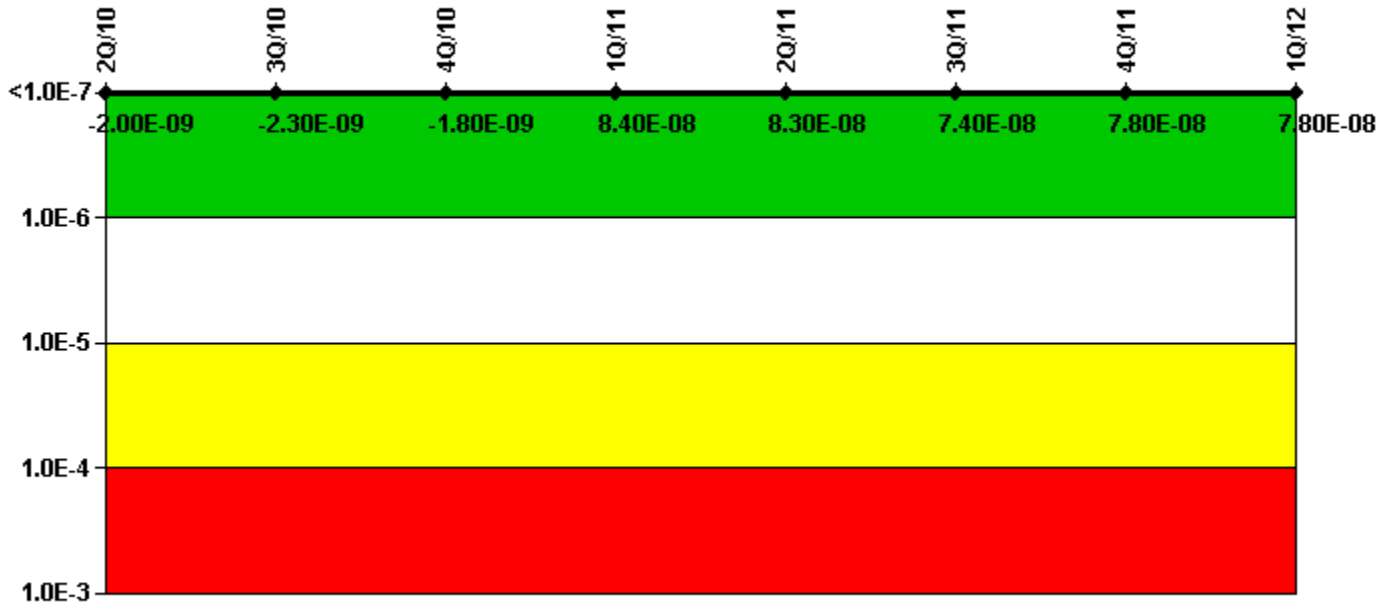
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	-8.32E-10	-8.32E-10	-8.32E-10	-8.32E-10	-8.38E-10	-8.38E-10	-9.26E-10	-7.52E-10
URI (Δ CDF)	-1.50E-08	-1.52E-08	-1.50E-08	-1.50E-08	-1.52E-08	-1.52E-08	-1.52E-08	-1.52E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



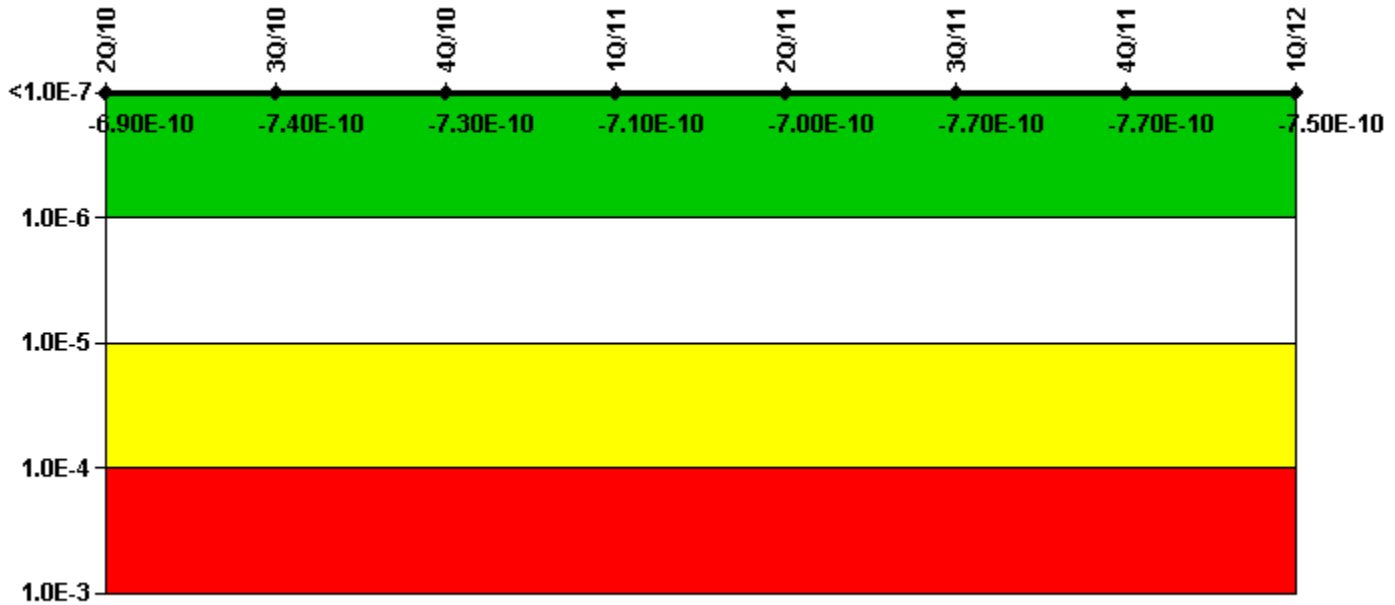
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	1.45E-08	1.36E-08	1.35E-08	1.44E-08	1.51E-08	6.57E-09	1.04E-08	7.92E-09
URI (Δ CDF)	-1.65E-08	-1.59E-08	-1.53E-08	6.97E-08	6.79E-08	6.79E-08	6.79E-08	6.96E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-09	-2.30E-09	-1.80E-09	8.40E-08	8.30E-08	7.40E-08	7.80E-08	7.80E-08

Licensee Comments: none

Mitigating Systems Performance Index, Residual Heat Removal System



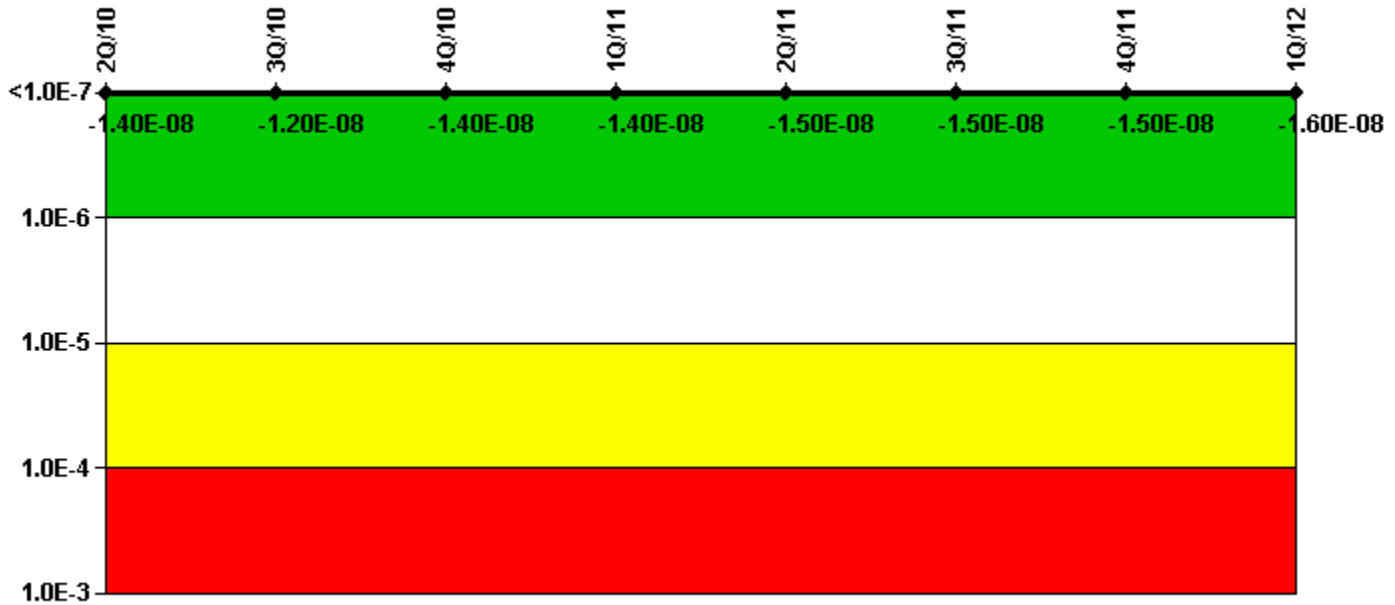
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	2.71E-10	2.14E-10	2.07E-10	2.25E-10	2.34E-10	1.68E-10	1.66E-10	1.81E-10
URI (Δ CDF)	-9.57E-10	-9.57E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10	-9.35E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.90E-10	-7.40E-10	-7.30E-10	-7.10E-10	-7.00E-10	-7.70E-10	-7.70E-10	-7.50E-10

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



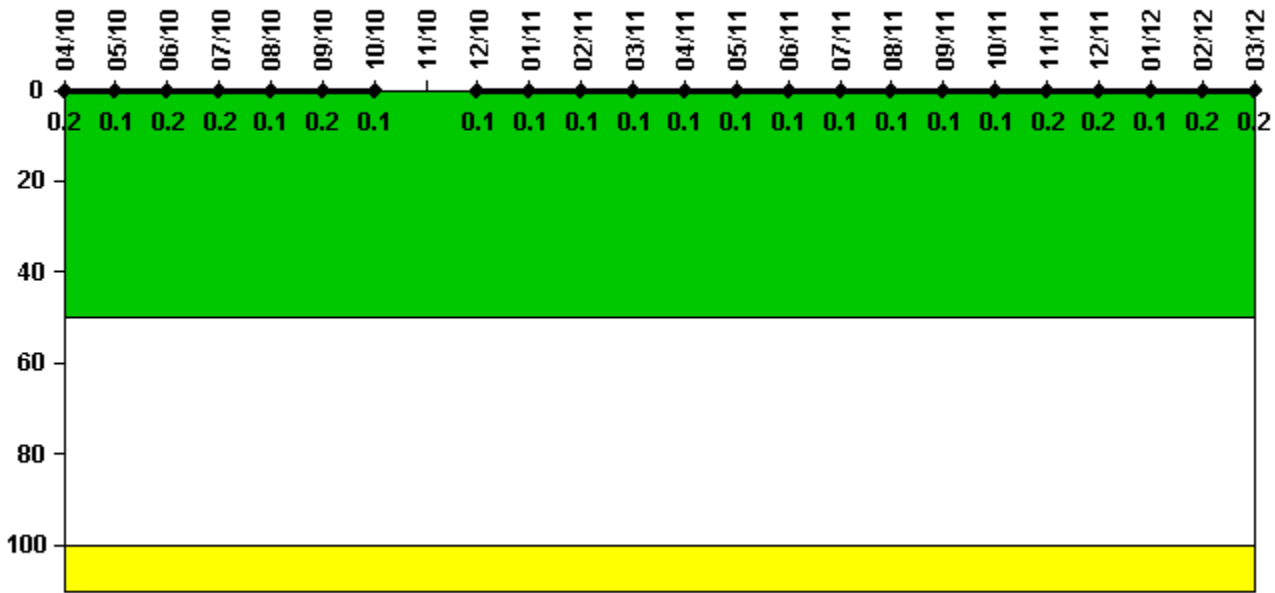
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (Δ CDF)	6.40E-09	7.35E-09	5.24E-09	5.56E-09	5.83E-09	5.39E-09	5.15E-09	4.47E-09
URI (Δ CDF)	-2.01E-08	-1.94E-08	-1.97E-08	-1.97E-08	-2.04E-08	-2.04E-08	-2.04E-08	-2.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.40E-08	-1.20E-08	-1.40E-08	-1.40E-08	-1.50E-08	-1.50E-08	-1.50E-08	-1.60E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

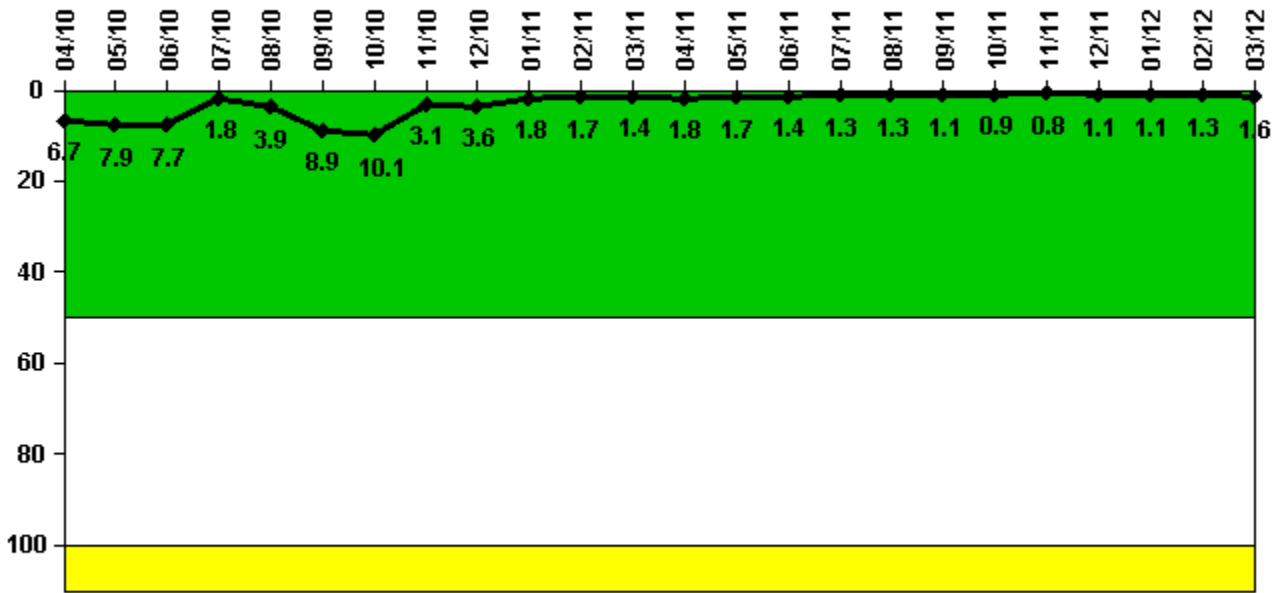
Notes

Reactor Coolant System Activity	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum activity	0.001550	0.001370	0.001510	0.001550	0.001420	0.002170	0.001350	N/A	0.000958	0.001130	0.000738	0.000849
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	0.2	0.2	0.1	0.2	0.1	N/A	0.1	0.1	0.1	0.1

Reactor Coolant System Activity	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum activity	0.000756	0.000998	0.000949	0.000985	0.000998	0.001030	0.001110	0.001550	0.001760	0.001200	0.002160	0.001610
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	0.1	0.1	0.1	0.2	0.2	0.1	0.2	0.2

Licensee Comments: none

Reactor Coolant System Leakage



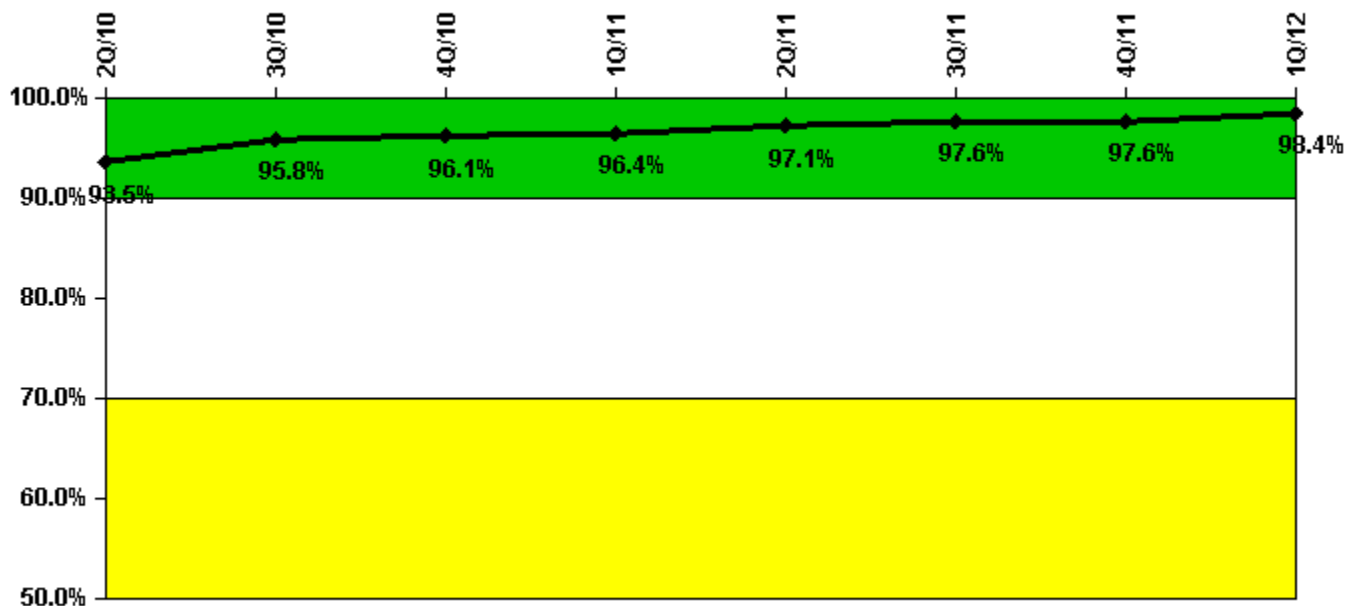
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/10	5/10	6/10	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11
Maximum leakage	0.670	0.790	0.770	0.180	0.390	0.890	1.010	0.310	0.360	0.180	0.170	0.140
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	6.7	7.9	7.7	1.8	3.9	8.9	10.1	3.1	3.6	1.8	1.7	1.4
Reactor Coolant System Leakage	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12
Maximum leakage	0.180	0.170	0.140	0.130	0.130	0.110	0.090	0.080	0.110	0.110	0.130	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	1.8	1.7	1.4	1.3	1.3	1.1	0.9	0.8	1.1	1.1	1.3	1.6

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

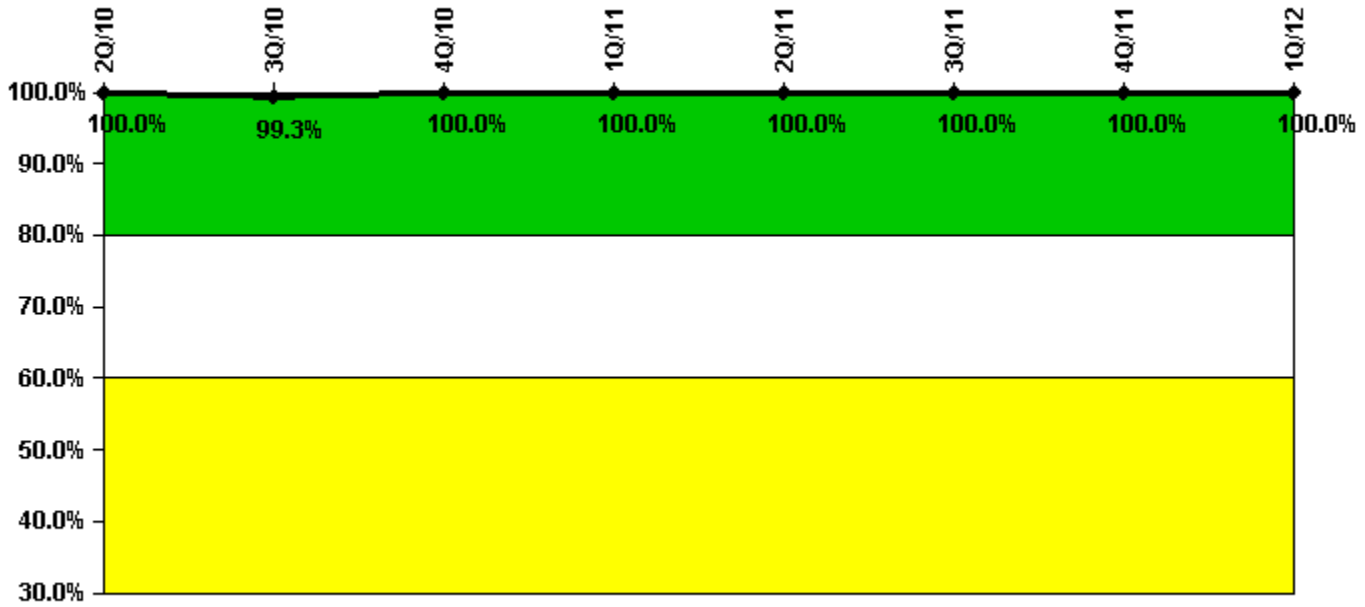
Notes

Drill/Exercise Performance	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful opportunities	33.0	41.0	15.0	31.0	27.0	31.0	27.0	38.0
Total opportunities	35.0	41.0	15.0	32.0	28.0	31.0	27.0	38.0
Indicator value	93.5%	95.8%	96.1%	96.4%	97.1%	97.6%	97.6%	98.4%

Licensee Comments:

3Q/11: An NRC assessment determined a missed classification occurred in June 2011. Historical data was corrected with no change in color.

ERO Drill Participation



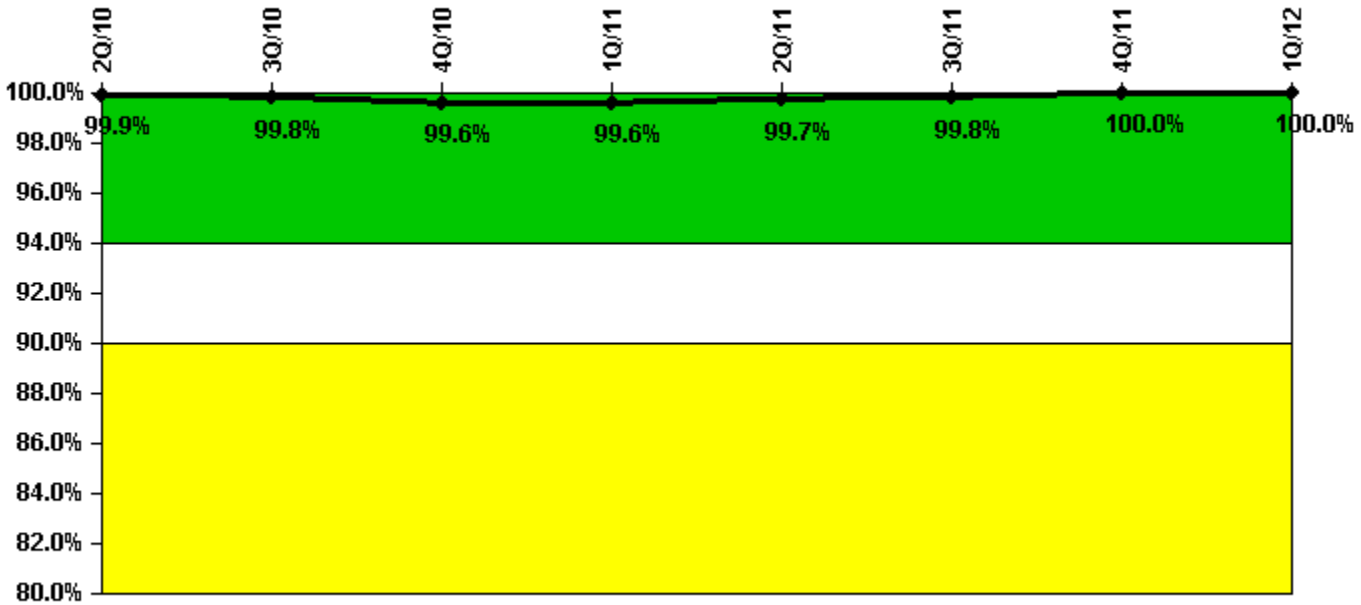
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Participating Key personnel	145.0	143.0	128.0	132.0	139.0	138.0	141.0	153.0
Total Key personnel	145.0	144.0	128.0	132.0	139.0	138.0	141.0	153.0
Indicator value	100.0%	99.3%	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	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful siren-tests	542	473	540	476	544	476	544	476
Total sirens-tests	544	476	544	476	544	476	544	476
Indicator value	99.9%	99.8%	99.6%	99.6%	99.7%	99.8%	100.0%	100.0%

Licensee Comments:

2Q/11: A self-assessment identified a siren activation test was not counted in March 2011. Historical data was corrected with no change in color.

Occupational Exposure Control Effectiveness



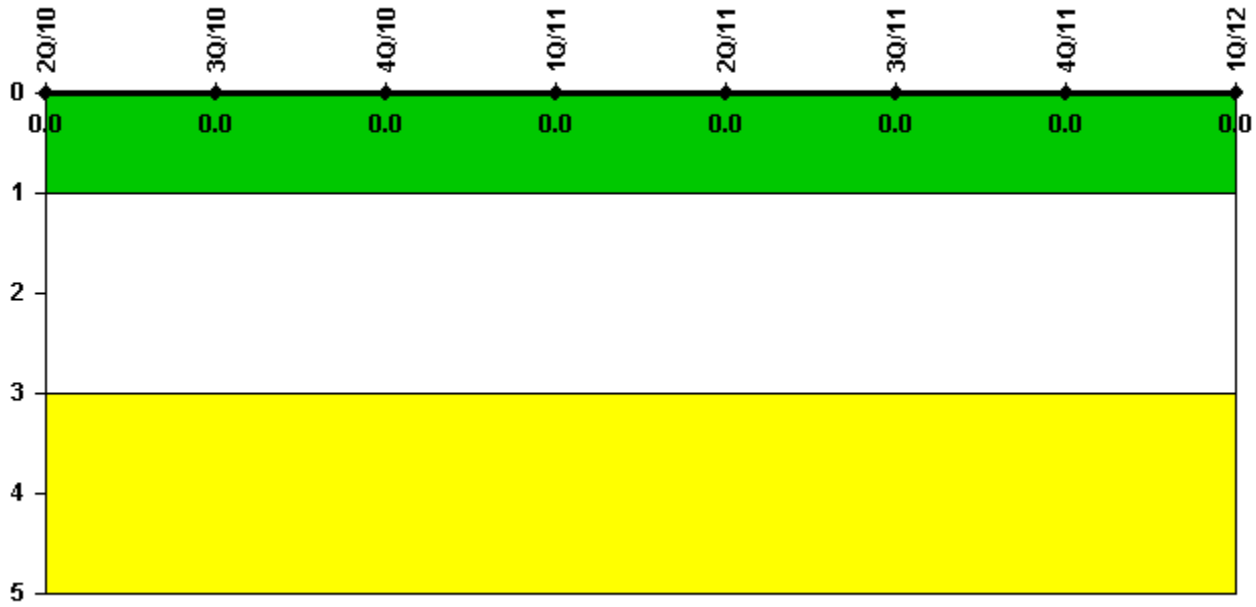
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
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/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
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.