

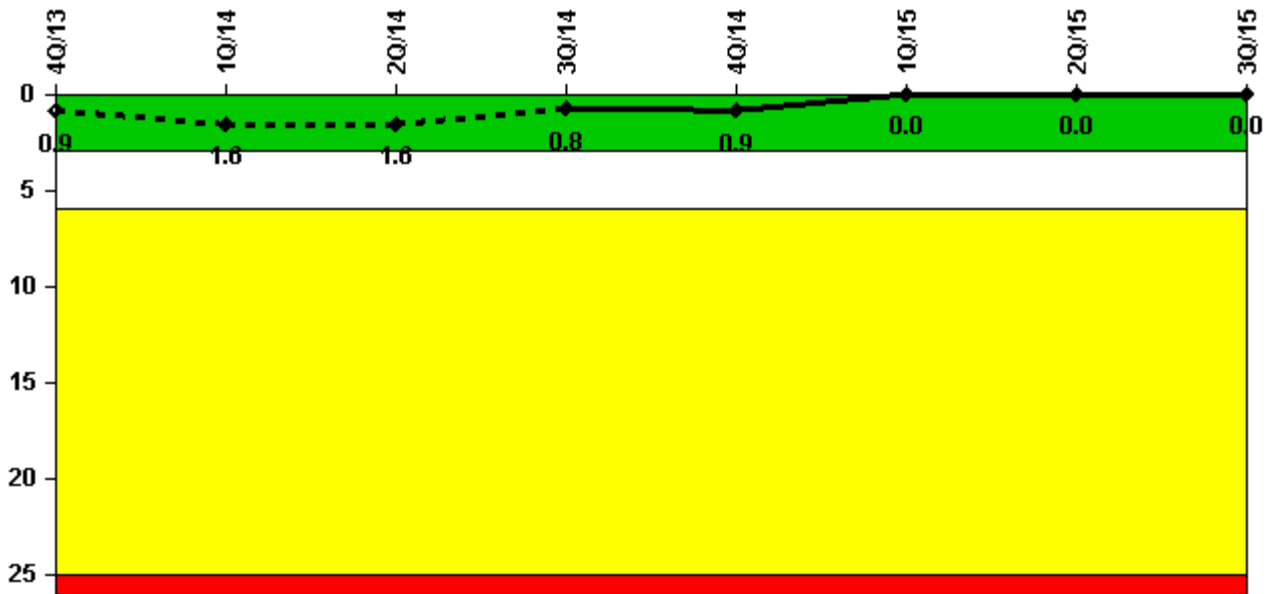
Diablo Canyon 2

3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

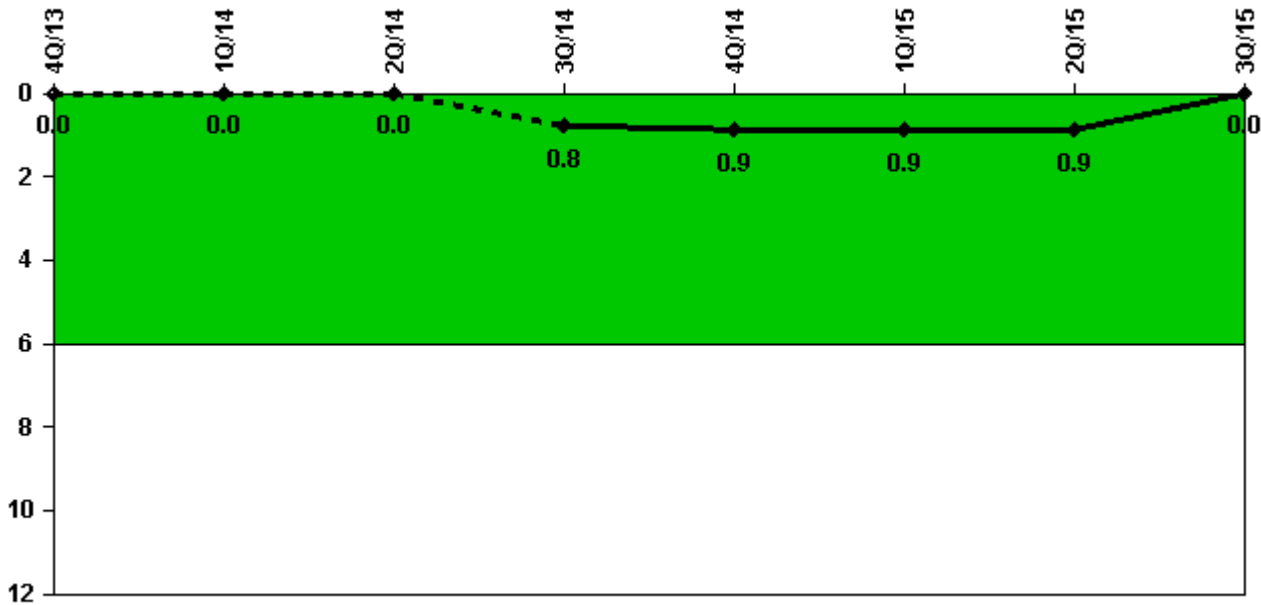
Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2209.0	2033.1	2184.0	2136.8	1453.4	2159.0	2184.0	2208.0
Indicator value	0.9	1.6	1.6	0.8	0.9	0	0	0

Licensee Comments:

1Q/14: A Unit 2 reactor trip due to a lightning arrestor failure occurred on February 2. This event is counted as an unplanned scram per NEI 99-02.

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

Notes

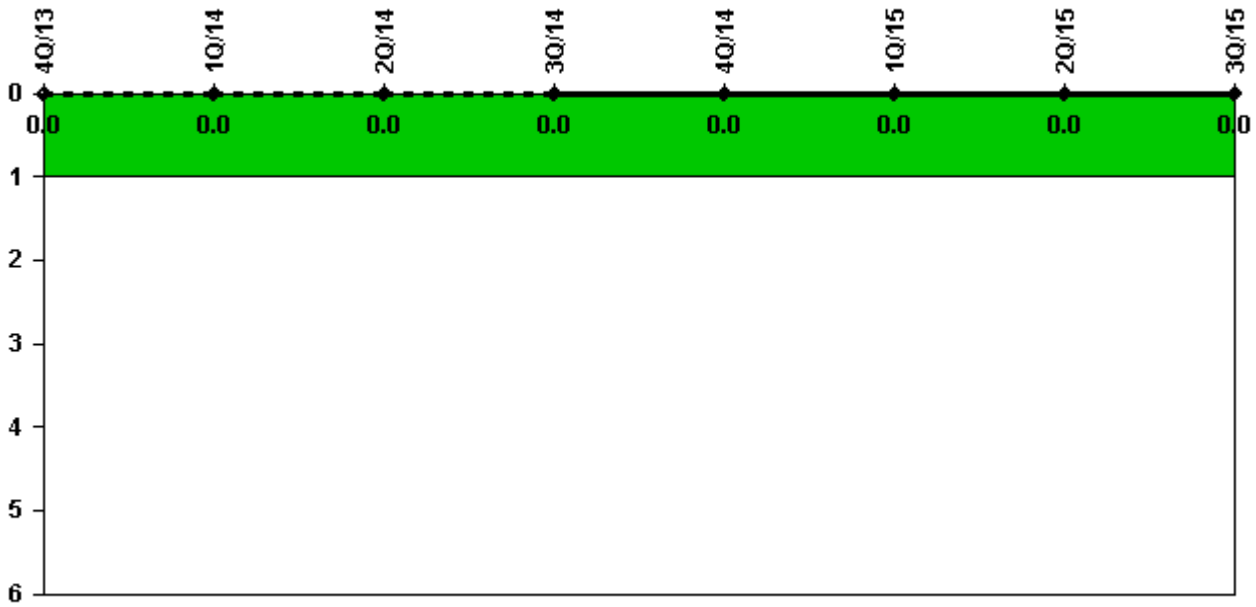
Unplanned Power Changes per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2209.0	2033.1	2184.0	2136.8	1453.4	2159.0	2184.0	2208.0
Indicator value	0	0	0	0.8	0.9	0.9	0.9	0

Licensee Comments:

3Q/14: On August 14, 2014, Diablo Canyon Unit 2 was shut down due to two diesel generators inoperable. During a planned maintenance outage window, a cracked fuel line bolt was discovered. During extent of condition investigations on the other diesel generators, an additional cracked bolt was identified. During restoration of the second diesel generator, a fuel oil leak was discovered on its fuel oil booster pump. The cracked bolts and fuel oil booster pump were replaced.

1Q/14: Diablo Canyon Unit 2 operated at approximately 100 percent power with the following exceptions: 1) Unit 2 power was reduced to approximately 50% power for planned circulating water tunnel cleaning between January 10 and January 14, 2014, 2) From January 4 to January 10, 2014, power was reduced approximately 10 MW for improved equipment performance, 3) On February 28, 2014, Unit 2 power was reduced to approximately 25 percent power due to high ocean swells. The high ocean swell power reduction is excluded per NEI 99-02 FAQs for Diablo Canyon.

Unplanned Scrams with Complications



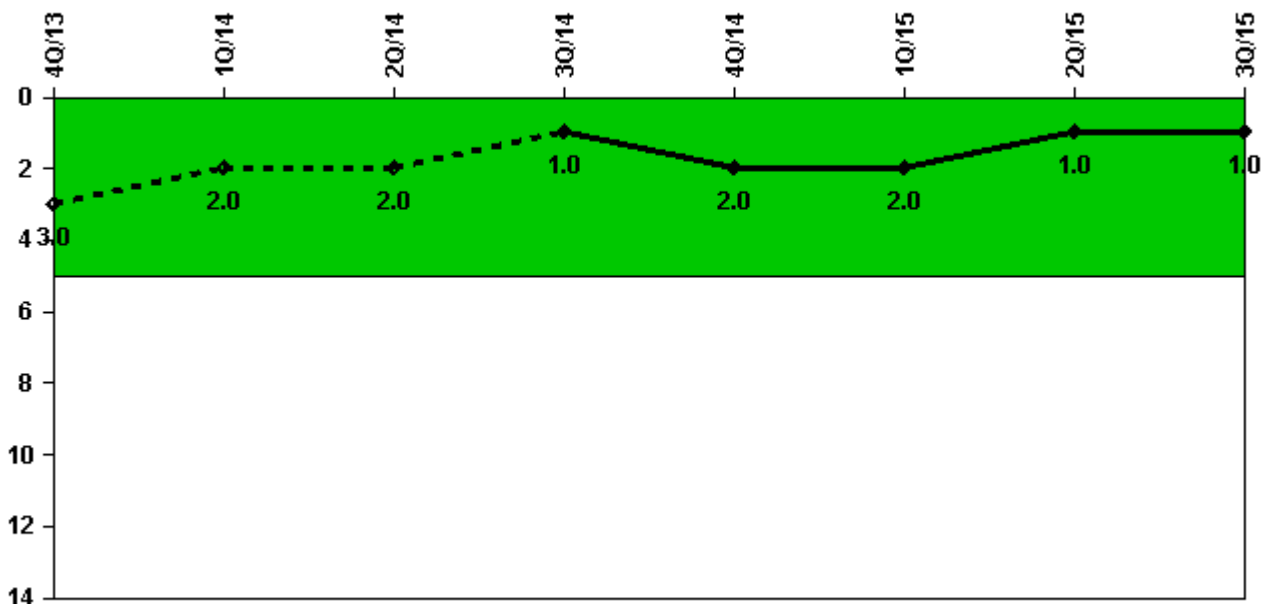
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
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

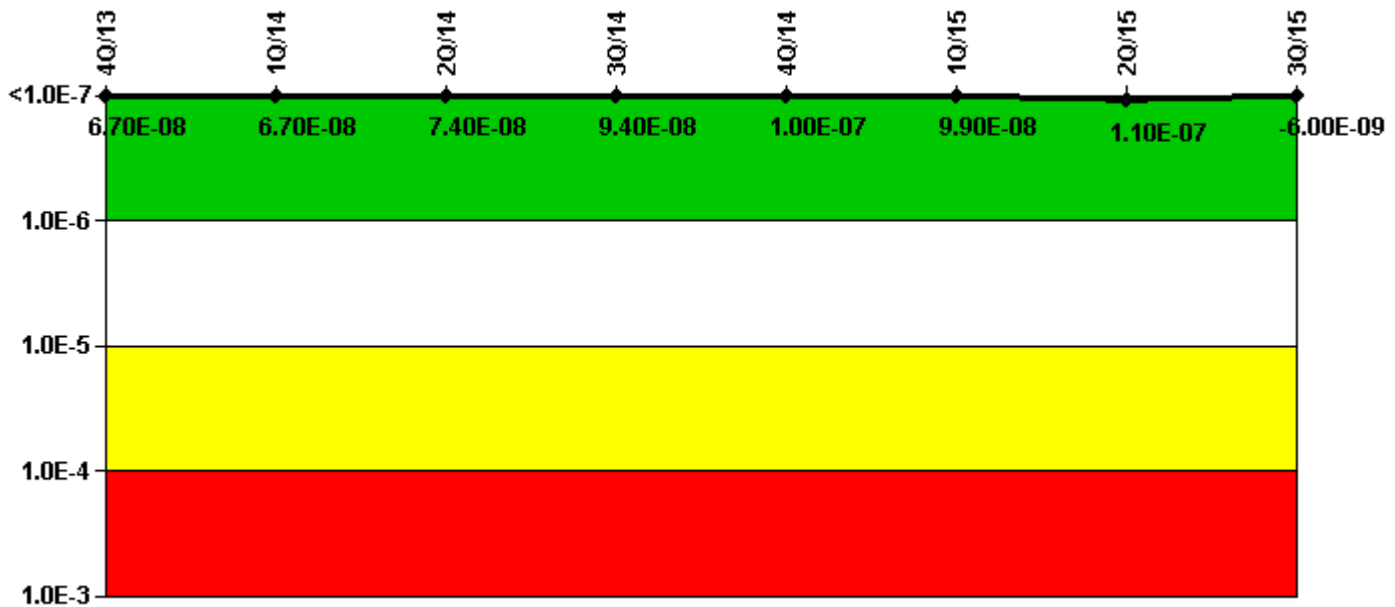
Safety System Functional Failures (PWR)	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Safety System Functional Failures	0	0	1	0	1	0	0	0
Indicator value	3	2	2	1	2	2	1	1

Licensee Comments:

4Q/14: LER 2-2014-002-00 (PG&E Letter DCL-14-090) dated 10/14/2014 reports a SSFF for two diesel generators inoperable.

2Q/14: LER 1-2014-003-00 reported an unanalyzed condition regarding diesel exhaust plenum inadequate protection from tornado missiles. This constitutes a safety system functional failure. A supplement to the LER will be provided. Reference SAPN 50639263.

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/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (ΔCDF)	4.73E-09	-1.95E-09	-2.10E-09	1.15E-08	1.61E-08	1.03E-08	2.10E-08	1.99E-08
URI (ΔCDF)	6.21E-08	6.88E-08	7.57E-08	8.28E-08	8.86E-08	8.86E-08	8.86E-08	-2.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.70E-08	6.70E-08	7.40E-08	9.40E-08	1.00E-07	9.90E-08	1.10E-07	-6.00E-09

Licensee Comments:

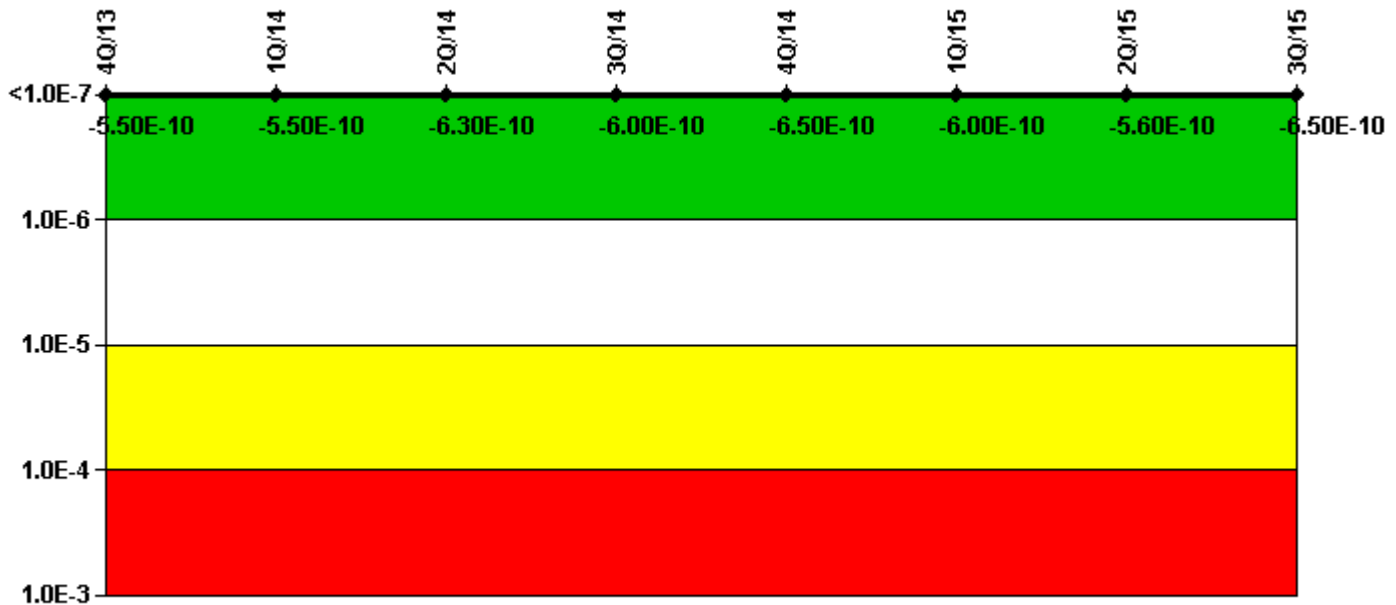
3Q/14: The data for MSPI Emergency AC Power System is not complete. Two diesel events (August 2014) are waiting past operability evaluations. In the interim, they are conservatively entered as "run failures."

3Q/14: Per NEI 99-02, Revision 7, Table 1, the following is noted: The data for MSPI Emergency AC Power System is not complete. Engineering evaluation for three diesel events (August to September 2014) are waiting on input from a vendor (MPR) on past operability.

3Q/14: The Emergency AC Power System analysis is now complete. All the diesel events (August 2014) have been analyzed by the outside vendor and it was determined the Diesel Emergency Generators would be able to perform their MSPI monitored function.

3Q/14: The data for MSPI Emergency AC Power System is not complete. Three diesel events (August to September 2014) are waiting past operability evaluations. In the interim, they are conservatively entered as "run failures."

Mitigating Systems Performance Index, High Pressure Injection System



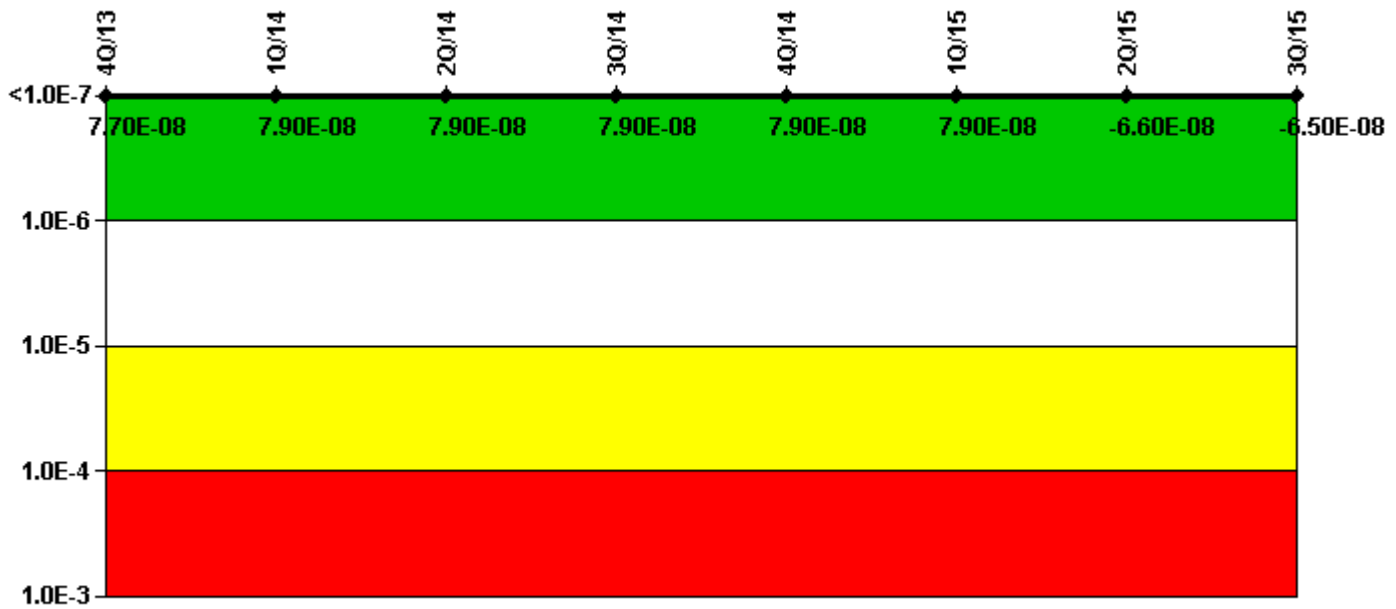
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	6.04E-10	6.03E-10	5.26E-10	5.54E-10	5.02E-10	5.59E-10	5.96E-10	5.10E-10
URI (Δ CDF)	-1.16E-09	-1.16E-09	-1.16E-09	-1.16E-09	-1.16E-09	-1.16E-09	-1.16E-09	-1.16E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.50E-10	-5.50E-10	-6.30E-10	-6.00E-10	-6.50E-10	-6.00E-10	-5.60E-10	-6.50E-10

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System



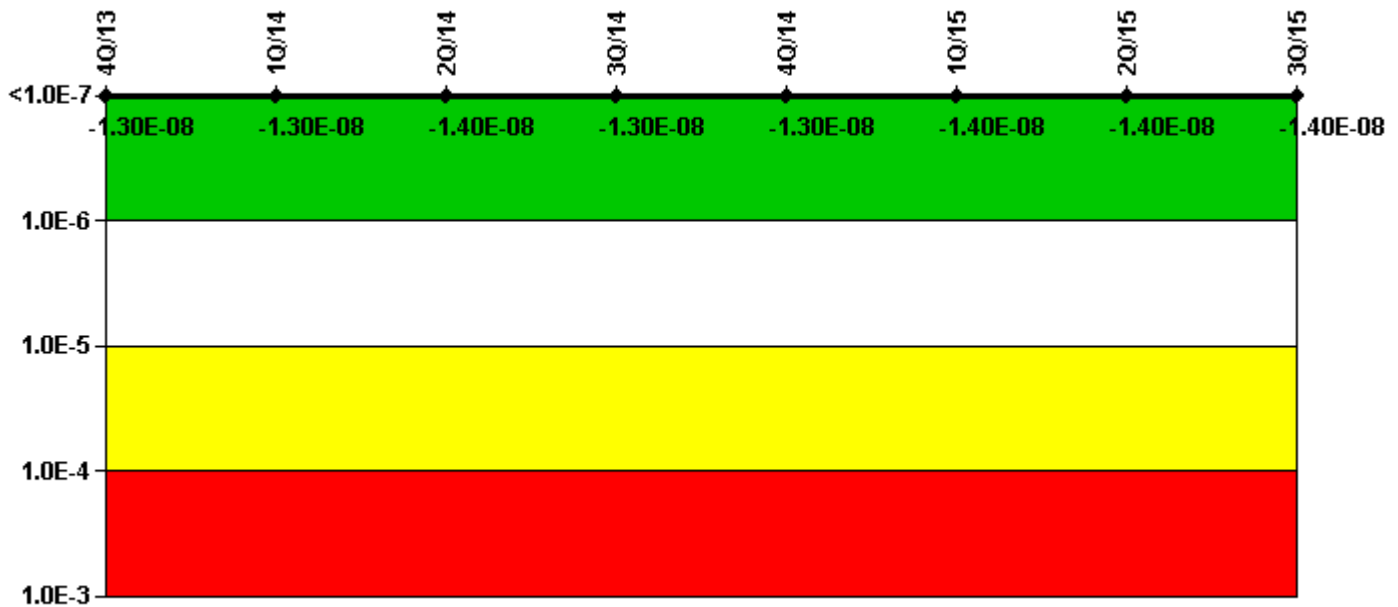
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	-1.16E-08	-1.17E-08	-1.15E-08	-1.19E-08	-1.19E-08	-1.19E-08	-1.25E-08	-1.19E-08
URI (Δ CDF)	8.87E-08	9.06E-08	9.06E-08	9.06E-08	9.06E-08	9.06E-08	-5.33E-08	-5.33E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.70E-08	7.90E-08	7.90E-08	7.90E-08	7.90E-08	7.90E-08	-6.60E-08	-6.50E-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	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	-1.66E-09	-1.78E-09	-2.09E-09	-1.70E-09	-1.47E-09	-2.41E-09	-2.41E-09	-2.41E-09
URI (Δ CDF)	-1.16E-08	-1.16E-08	-1.17E-08	-1.17E-08	-1.18E-08	-1.18E-08	-1.19E-08	-1.19E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.30E-08	-1.30E-08	-1.40E-08	-1.30E-08	-1.30E-08	-1.40E-08	-1.40E-08	-1.40E-08

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems



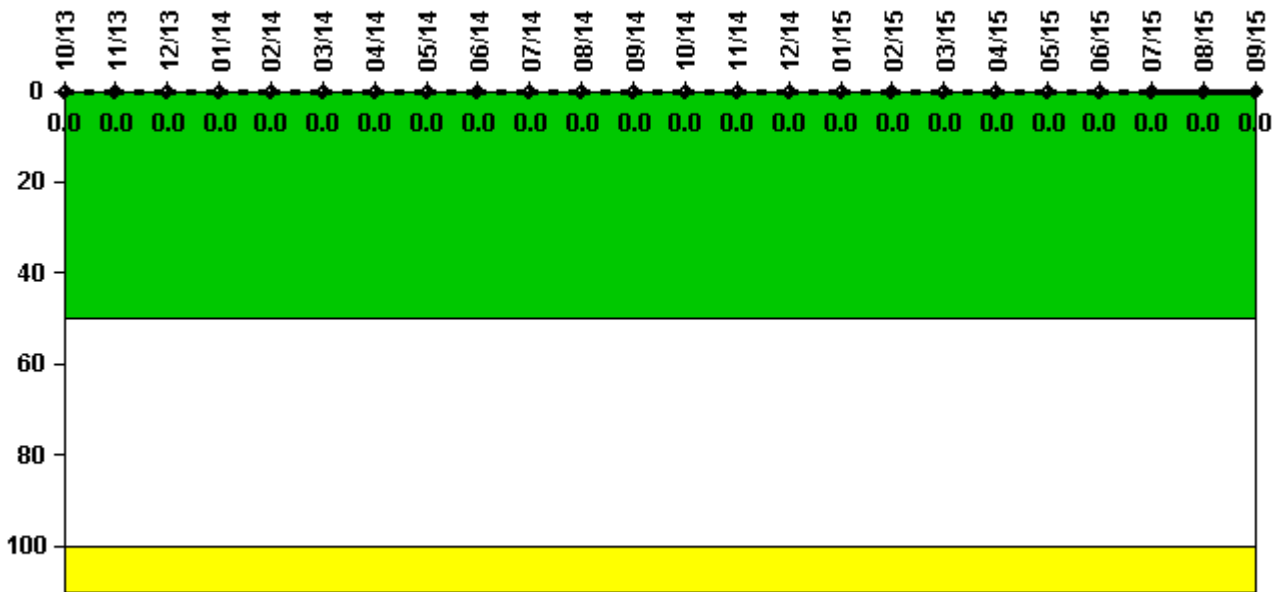
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
UAI (Δ CDF)	1.83E-08	5.93E-08	5.11E-09	3.19E-08	3.45E-08	1.54E-08	7.24E-08	6.66E-08
URI (Δ CDF)	-4.67E-08	-4.68E-08	-4.68E-08	-4.68E-08	-4.68E-08	-4.68E-08	-4.68E-08	-4.68E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.80E-08	1.30E-08	-4.20E-08	-1.50E-08	-1.20E-08	-3.10E-08	2.60E-08	2.00E-08

Licensee Comments: none

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

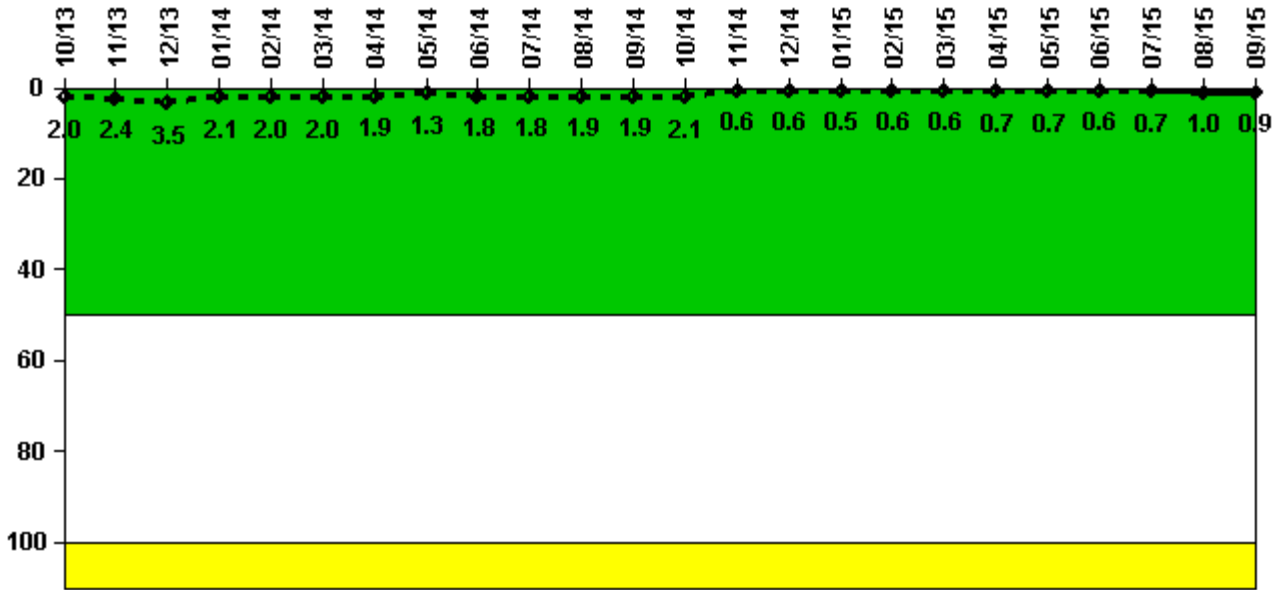
Notes

Reactor Coolant System Activity	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum activity	0.000096	0.000098	0.000116	0.000103	0.000104	0.000109	0.000118	0.000128	0.000126	0.000127	0.000138	0.000141
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	0	0	0	0

Reactor Coolant System Activity	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum activity	0.000097	0.000128	0.000141	0.000164	0.000172	0.000195	0.000212	0.000218	0.000323	0.000265	0.000269	0.000273
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	0	0	0	0

Licensee Comments: none

Reactor Coolant System Leakage



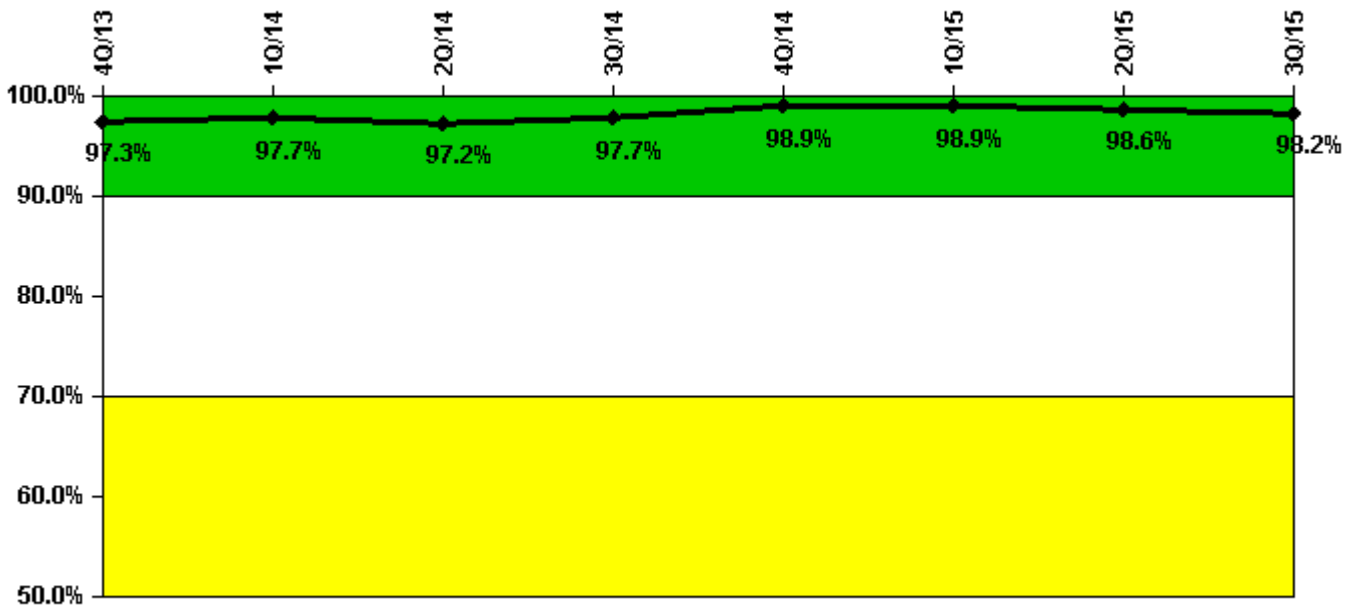
Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum leakage	0.201	0.235	0.354	0.207	0.196	0.197	0.189	0.133	0.178	0.177	0.194	0.191
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	2.0	2.4	3.5	2.1	2.0	2.0	1.9	1.3	1.8	1.8	1.9	1.9
Reactor Coolant System Leakage	10/14	11/14	12/14	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15
Maximum leakage	0.212	0.062	0.057	0.052	0.056	0.059	0.074	0.071	0.061	0.074	0.097	0.091
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	2.1	0.6	0.6	0.5	0.6	0.6	0.7	0.7	0.6	0.7	1.0	0.9

Licensee Comments: none

Drill/Exercise Performance



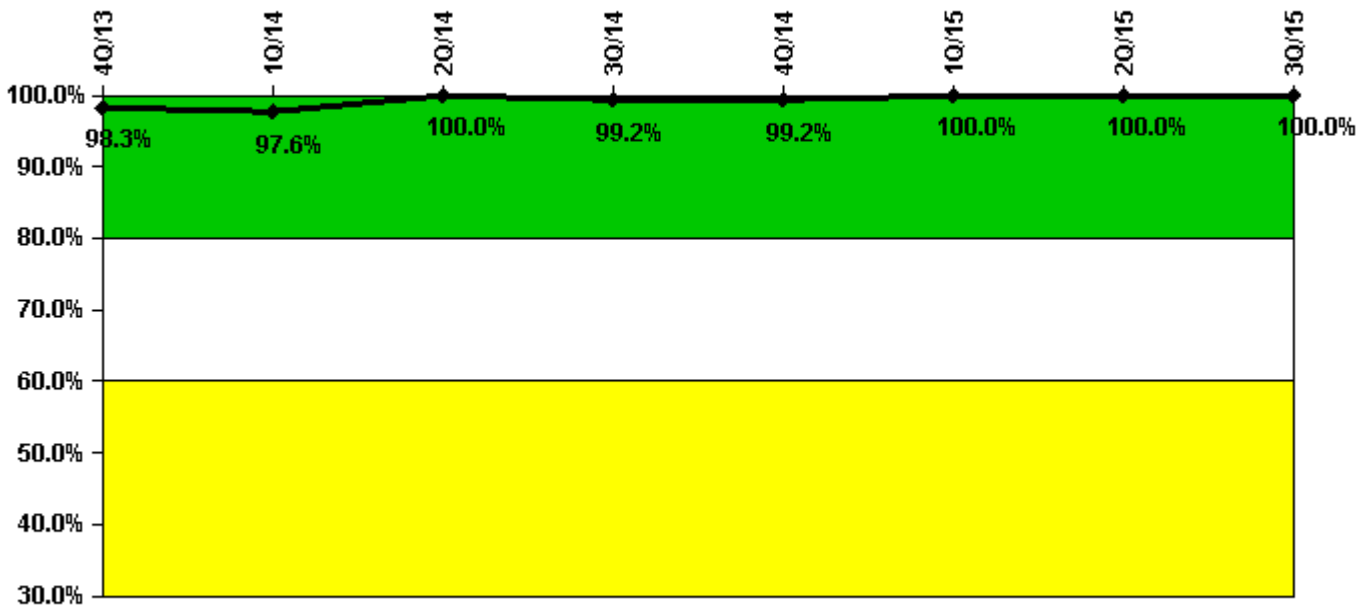
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful opportunities	42.0	19.0	64.0	33.0	26.0	30.0	43.0	22.0
Total opportunities	42.0	19.0	67.0	33.0	26.0	30.0	44.0	23.0
Indicator value	97.3%	97.7%	97.2%	97.7%	98.9%	98.9%	98.6%	98.2%

Licensee Comments: none

ERO Drill Participation



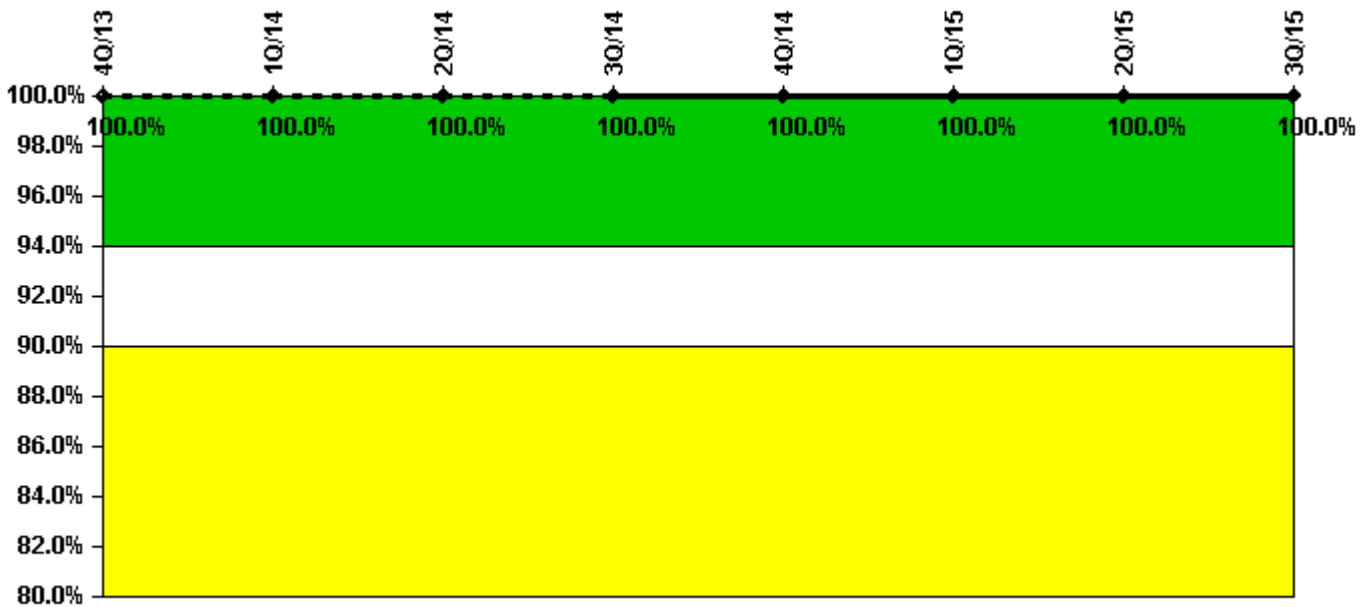
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Participating Key personnel	118.0	120.0	117.0	120.0	118.0	120.0	117.0	121.0
Total Key personnel	120.0	123.0	117.0	121.0	119.0	120.0	117.0	121.0
Indicator value	98.3%	97.6%	100.0%	99.2%	99.2%	100.0%	100.0%	100.0%

Licensee Comments: none

Alert & Notification System



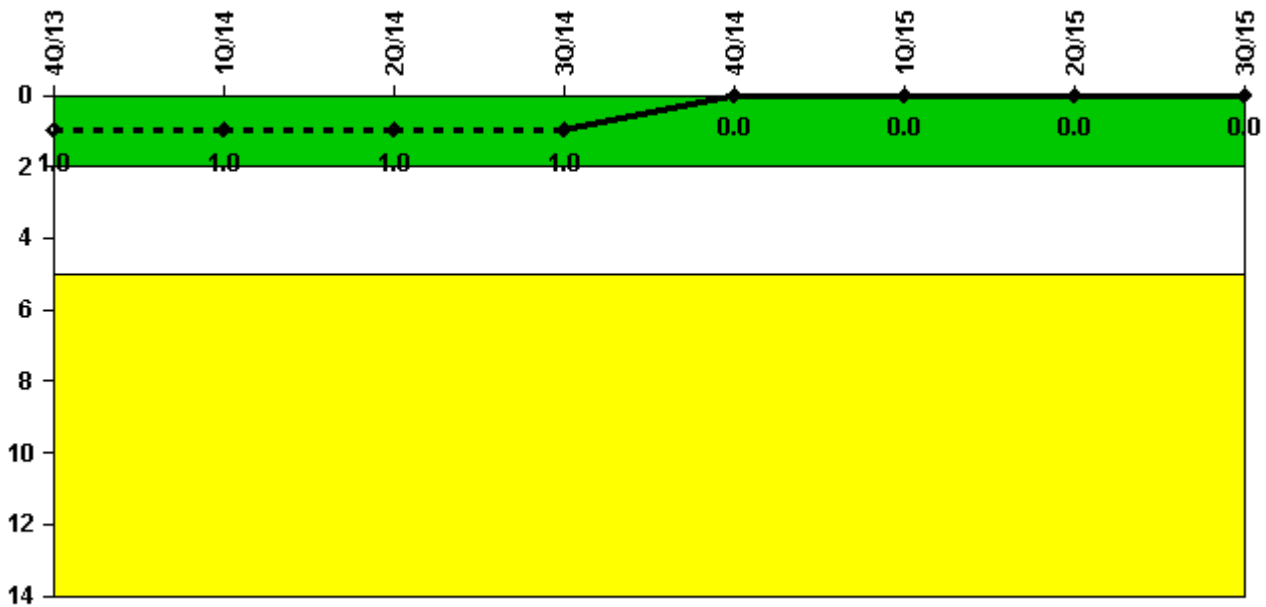
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful siren-tests	1048	917	917	1310	1048	917	1047	1178
Total sirens-tests	1048	917	917	1310	1048	917	1048	1179
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
High radiation area occurrences	1	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	1	1	1	1	0	0	0	0

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0	0	0	0	0	0	0	0

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

 [Action Matrix Summary](#) | [Inspection Findings Summary](#) | [PI Summary](#) | [Reactor Oversight Process](#)

Last Modified: December 15, 2015