

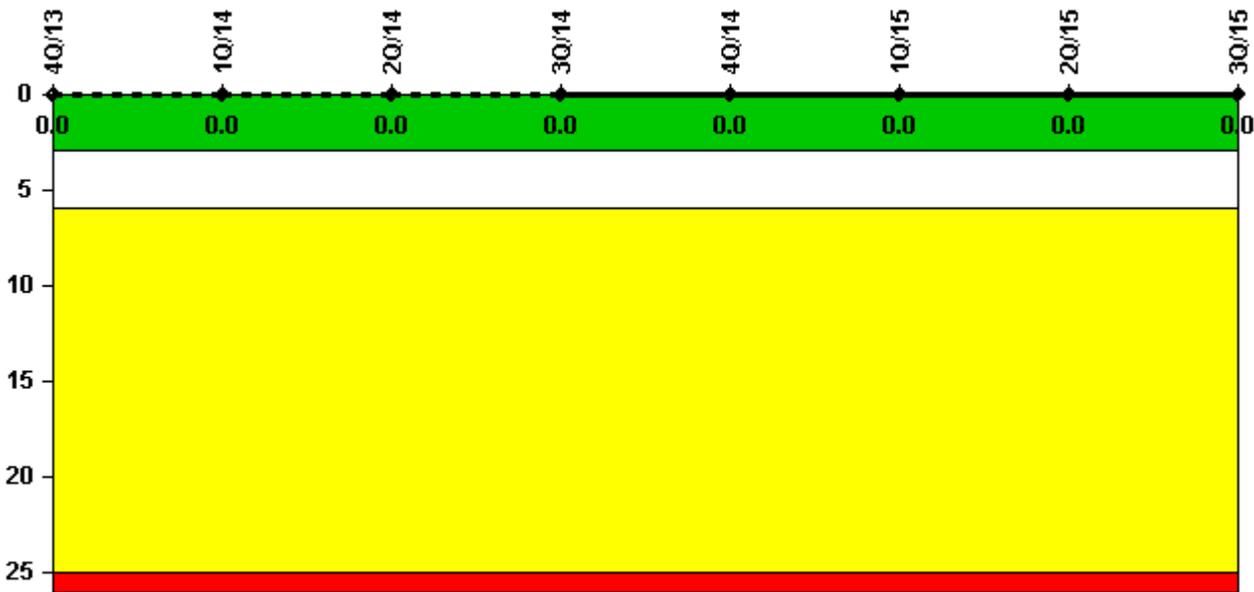
# Diablo Canyon 1

## 3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: EP01 data for 2Q2015 was updated on 9/8/2015 to add 2 drill, exercise and event opportunities that occurred on 6/30/2015. The opportunities were added when the Shift Manager who performed the tasks became fully qualified in August of 2015.

### Unplanned Scrams per 7000 Critical Hrs



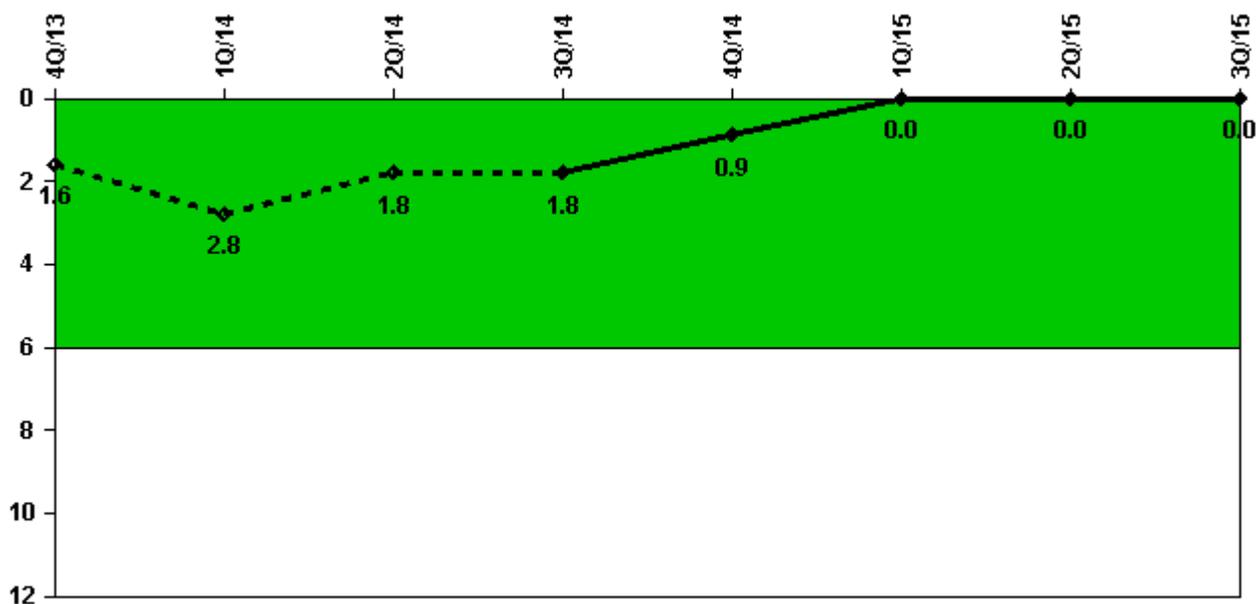
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### 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	0	0	0	0	0	0	0
Critical hours	2209.0	1166.1	2184.0	2208.0	2190.0	2081.4	2184.0	2208.0
<b>Indicator value</b>	<b>0</b>							

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

#### Notes

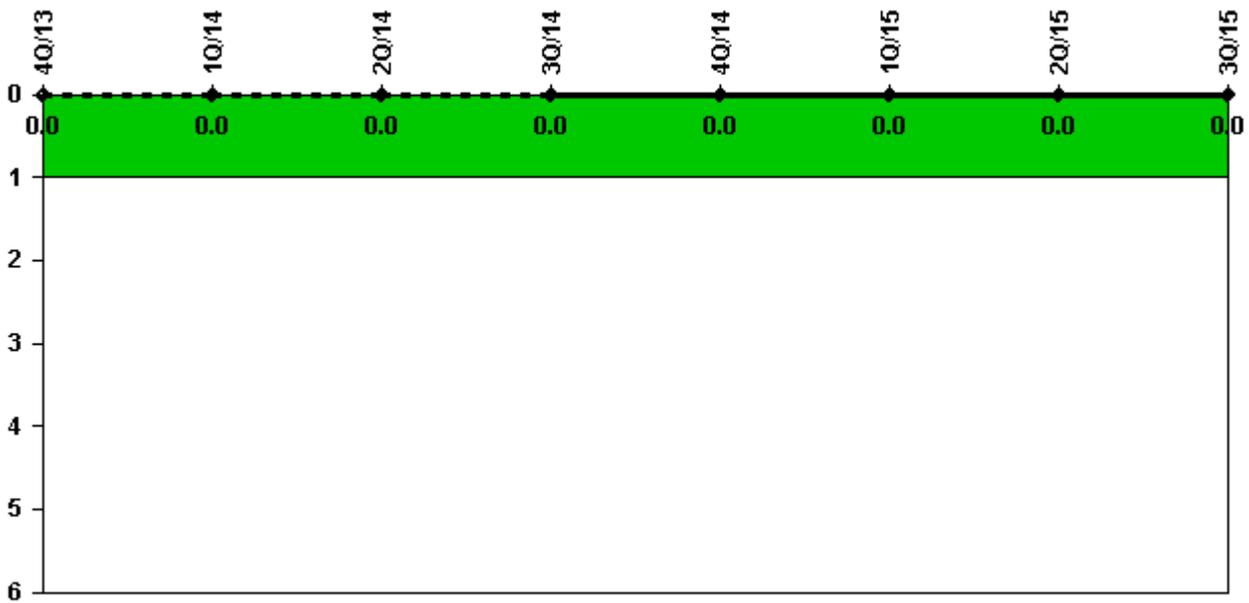
Unplanned Power Changes per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned power changes	1.0	1.0	0	0	0	0	0	0
Critical hours	2209.0	1166.1	2184.0	2208.0	2190.0	2081.4	2184.0	2208.0
<b>Indicator value</b>	<b>1.6</b>	<b>2.8</b>	<b>1.8</b>	<b>1.8</b>	<b>0.9</b>	<b>0</b>	<b>0</b>	<b>0</b>

#### Licensee Comments:

1Q/14: Diablo Canyon Unit 1 was in a planned refueling outage (Unit 1 Refueling Outage Eighteen) from February 9 to March 13, 2014. On March 16, during power ascension from the outage, seal leak off on Reactor Coolant Pump 1-3 was greater than expected. Operators reduced power and performed a controlled shutdown per plant procedures on March 16, 2014 for a forced outage due to an excessive seal leak off. Repairs were completed on March 27 and operators ended the forced outage. Unit 1 reached full power on March 29, 2014.

4Q/13: On October 14, 2013, plant control systems automatically ramped Unit 1 to 50 percent power due to a trip of Main Feedwater Pump 1-1. Following repairs, Operators ramped the unit to back to full power on October 16, 2013. See DCL-13-117 (LER 1-2013-007-0) for additional information.

### Unplanned Scrams with Complications



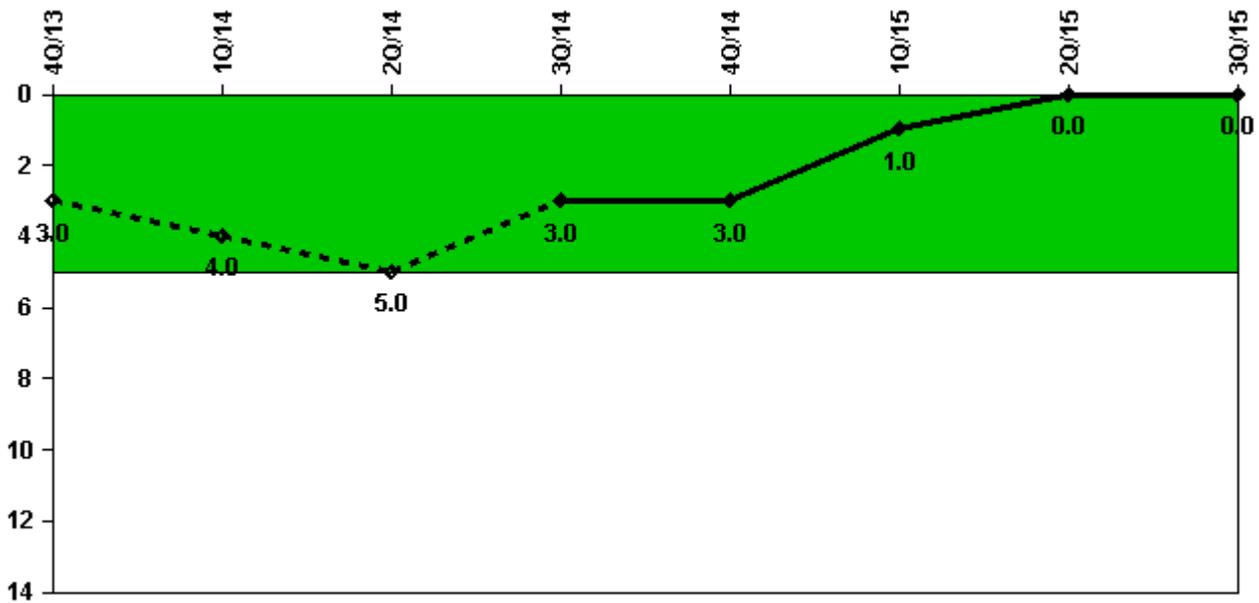
Thresholds: White > 1.0

#### 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
<b>Indicator value</b>	<b>0.0</b>							

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	2	1	0	0	0	0	0
<b>Indicator value</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>3</b>	<b>3</b>	<b>1</b>	<b>0</b>	<b>0</b>

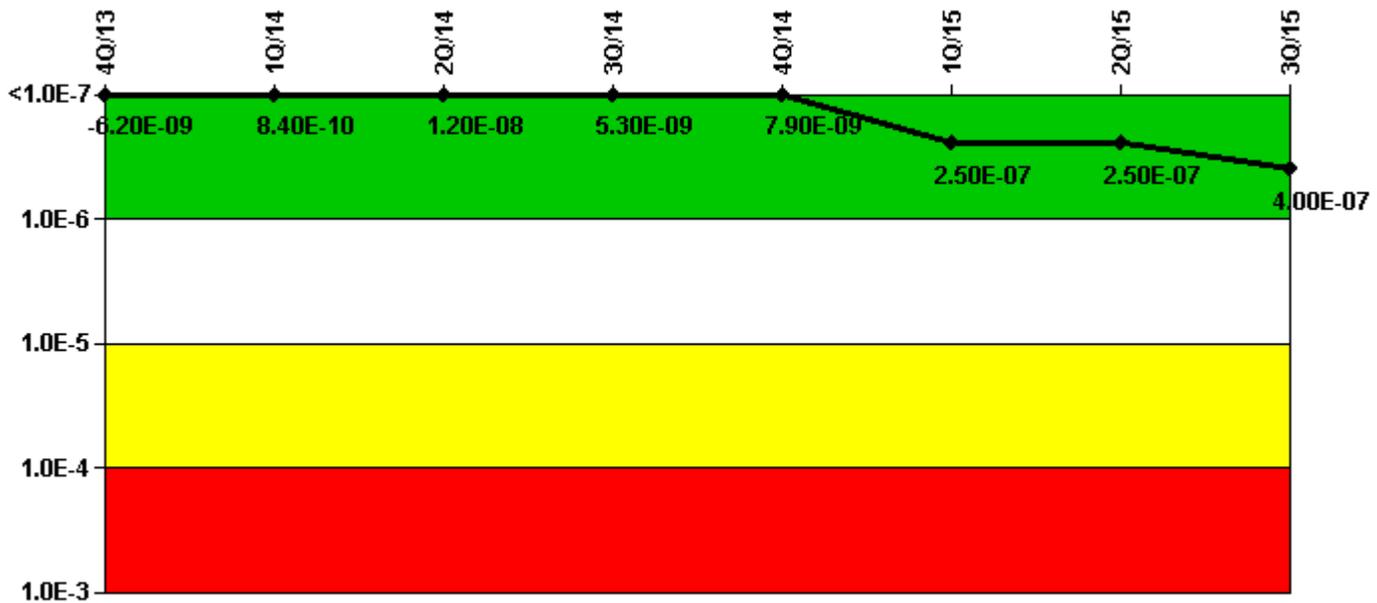
#### Licensee Comments:

1Q/15: LER 1-2015-001-00 was submitted on 3/2/2015 per 50.73(a)(2)(v). An engineering evaluation determined that the RHR system would perform its specified safety function if a design basis event had occurred. Therefore, this is not a SSFF. (Ref 50680750-31)

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.

1Q/14: DCCPP submitted two LERs in February 2014 that count as SSFFs. Reference LERs 1-2013-009-00 and 1-2013-010-00.

### Mitigating Systems Performance Index, Emergency AC Power System



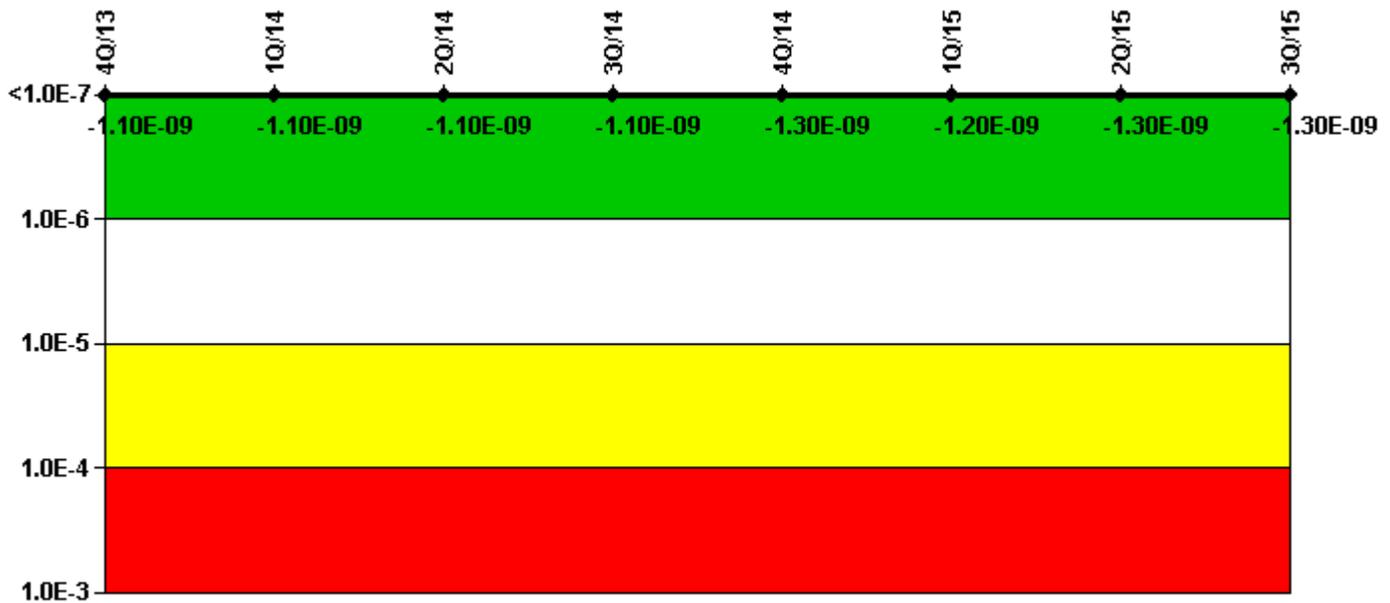
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### 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)	2.38E-08	2.72E-08	2.58E-08	1.52E-08	1.65E-08	5.45E-09	4.42E-09	3.38E-08
URI (ΔCDF)	-3.00E-08	-2.64E-08	-1.40E-08	-9.91E-09	-8.59E-09	2.41E-07	2.41E-07	3.66E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.20E-09	8.40E-10	1.20E-08	5.30E-09	7.90E-09	2.50E-07	2.50E-07	4.00E-07

Licensee Comments: none

### Mitigating Systems Performance Index, High Pressure Injection System



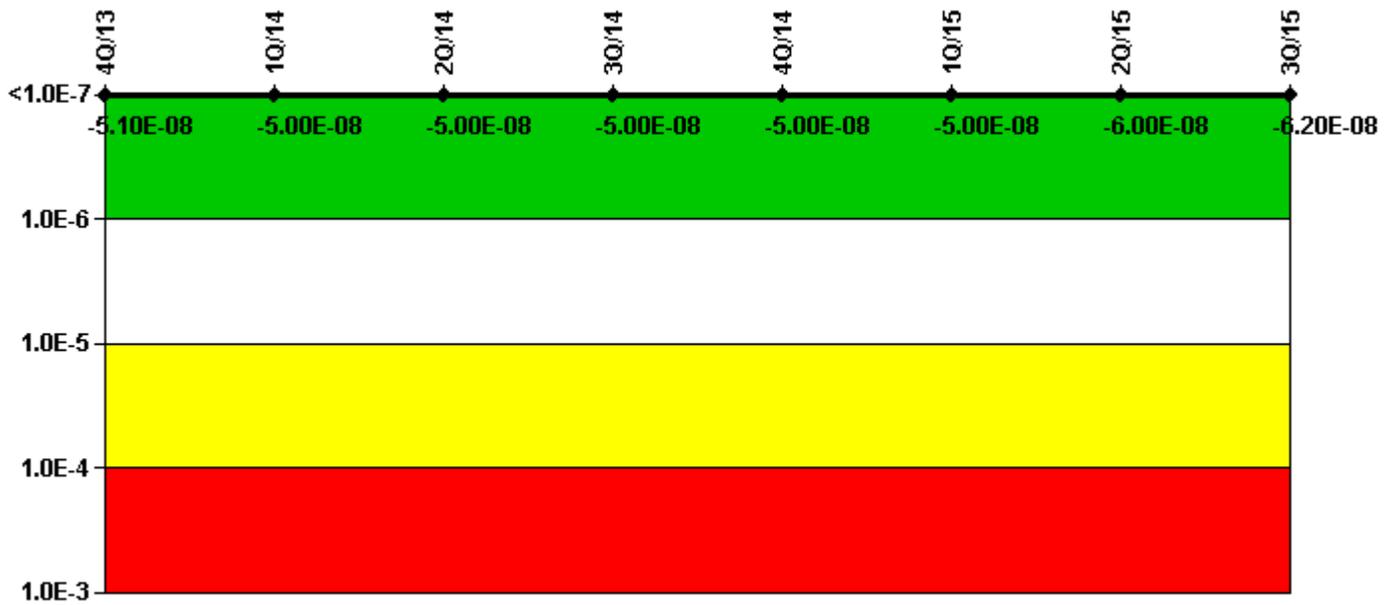
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### 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 ( $\Delta$ CDF)	5.77E-11	3.94E-11	2.91E-11	6.69E-11	-1.42E-10	-4.03E-11	-1.68E-10	-1.52E-10
URI ( $\Delta$ CDF)	-1.13E-09							
PLE	NO							
Indicator value	-1.10E-09	-1.10E-09	-1.10E-09	-1.10E-09	-1.30E-09	-1.20E-09	-1.30E-09	-1.30E-09

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



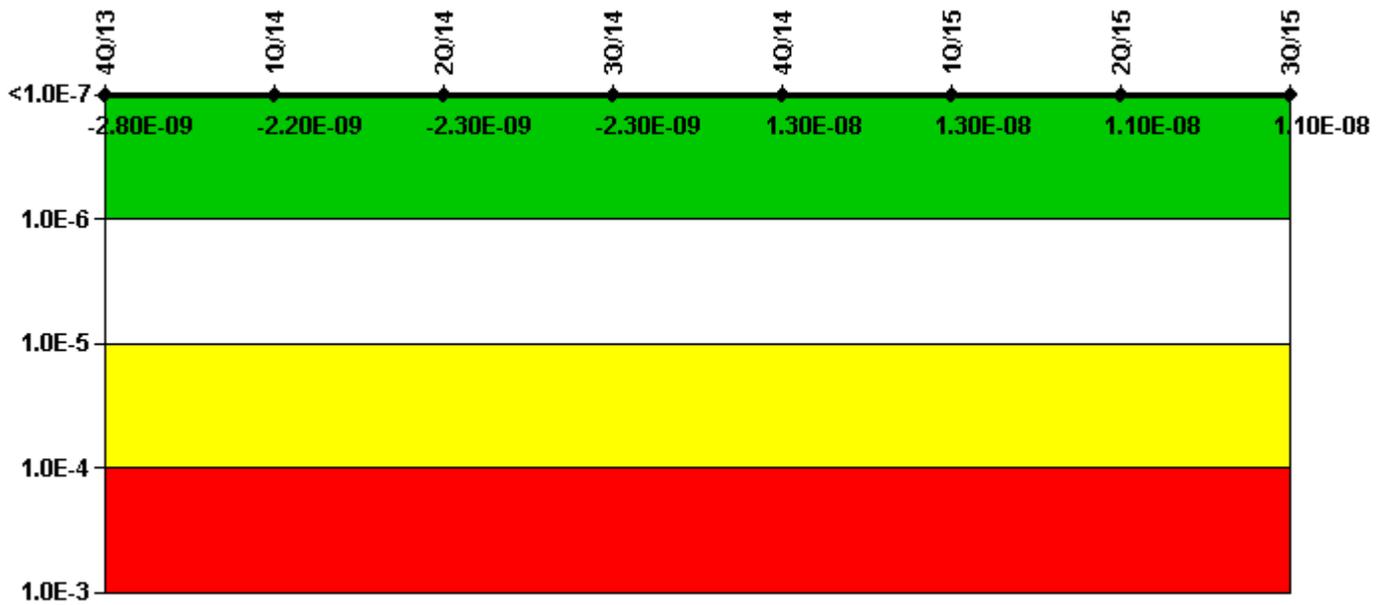
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### 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 (ΔCDF)	-7.78E-10	-2.90E-10	-2.90E-10	-2.90E-10	-2.80E-10	-2.28E-10	-9.88E-09	-1.25E-08
URI (ΔCDF)	-4.97E-08							
PLE	NO							
Indicator value	-5.10E-08	-5.00E-08	-5.00E-08	-5.00E-08	-5.00E-08	-5.00E-08	-6.00E-08	-6.20E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Residual Heat Removal System



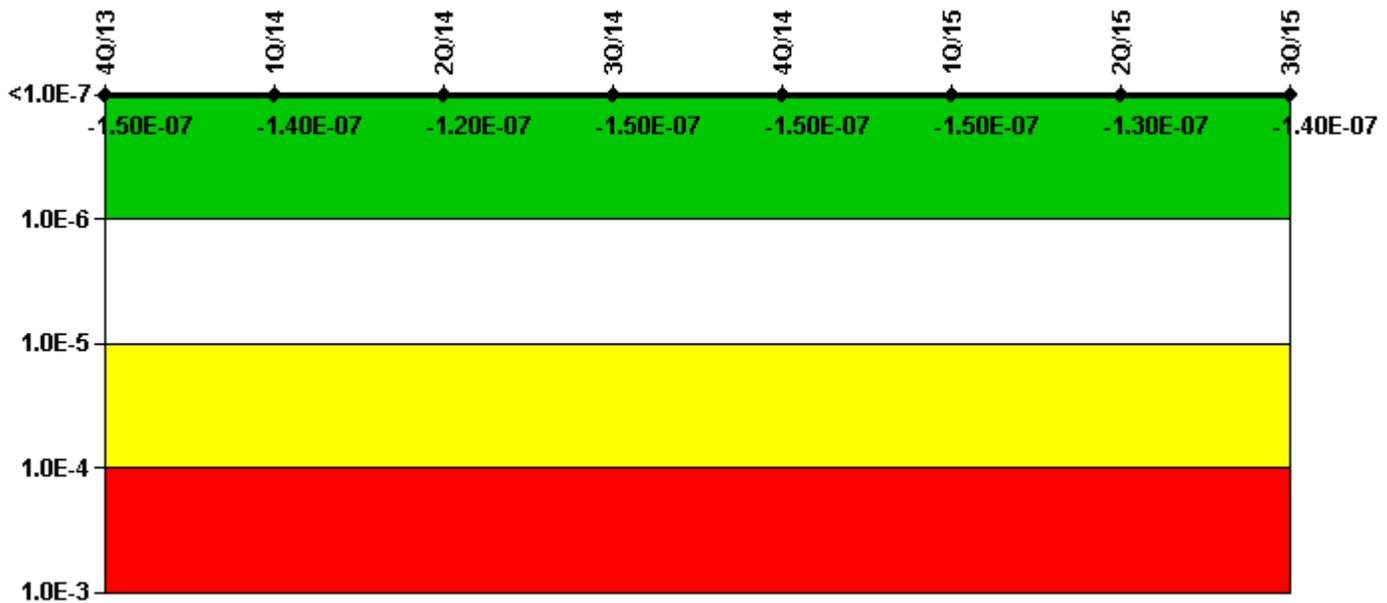
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### 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 ( $\Delta$ CDF)	1.38E-08	1.44E-08	1.44E-08	1.44E-08	2.94E-08	2.95E-08	2.79E-08	2.79E-08
URI ( $\Delta$ CDF)	-1.66E-08	-1.67E-08	-1.67E-08	-1.68E-08	-1.68E-08	-1.69E-08	-1.69E-08	-1.70E-08
PLE	NO							
Indicator value	-2.80E-09	-2.20E-09	-2.30E-09	-2.30E-09	1.30E-08	1.30E-08	1.10E-08	1.10E-08

Licensee Comments: none

### Mitigating Systems Performance Index, Cooling Water Systems



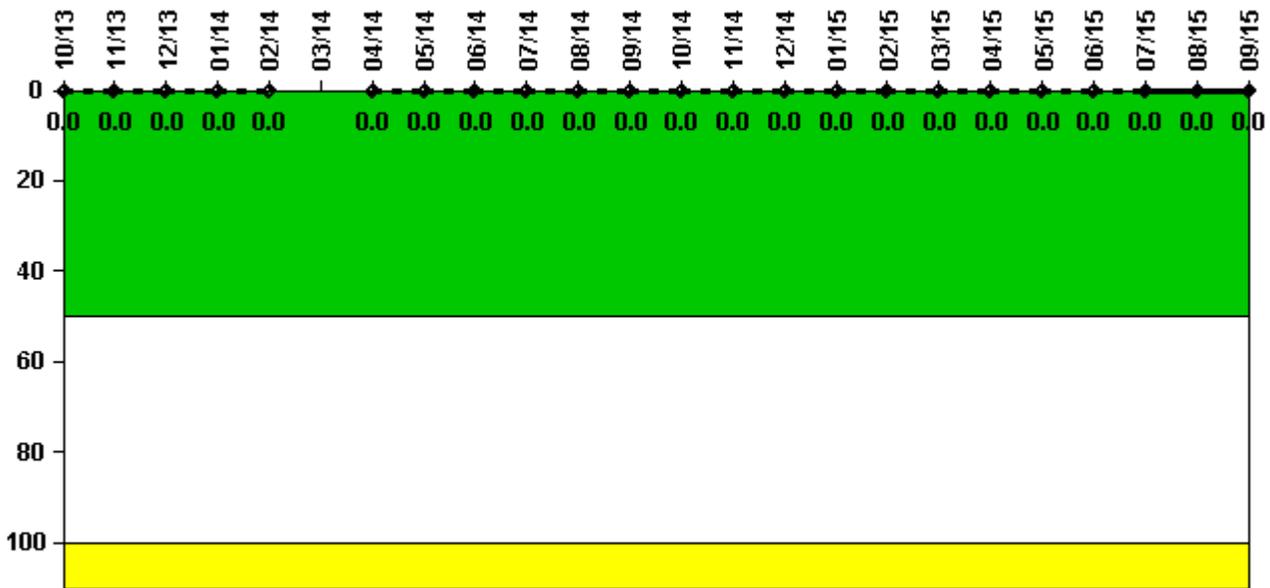
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### 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 ( $\Delta$ CDF)	-1.01E-07	-8.72E-08	-6.45E-08	-1.00E-07	-9.40E-08	-1.02E-07	-7.37E-08	-8.49E-08
URI ( $\Delta$ CDF)	-5.20E-08							
PLE	NO							
Indicator value	-1.50E-07	-1.40E-07	-1.20E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.30E-07	-1.40E-07

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

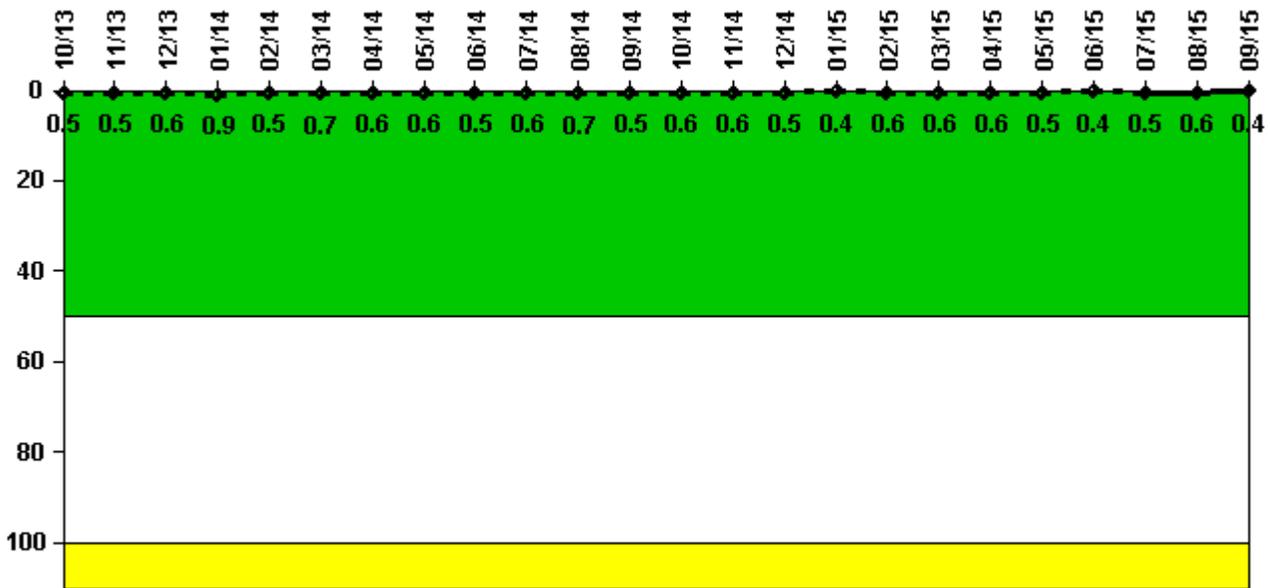
Reactor Coolant System Activity	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum activity	0.000075	0.000080	0.000081	0.000081	0.000045	N/A	0.000030	0.000045	0.000047	0.000047	0.000038	0.000044
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0	0	0	0	0	N/A	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	0.000045	0.000067	0.000048	0.000048	0.000047	0.000062	0.000056	0.000056	0.000064	0.000067	0.000067	0.000071
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

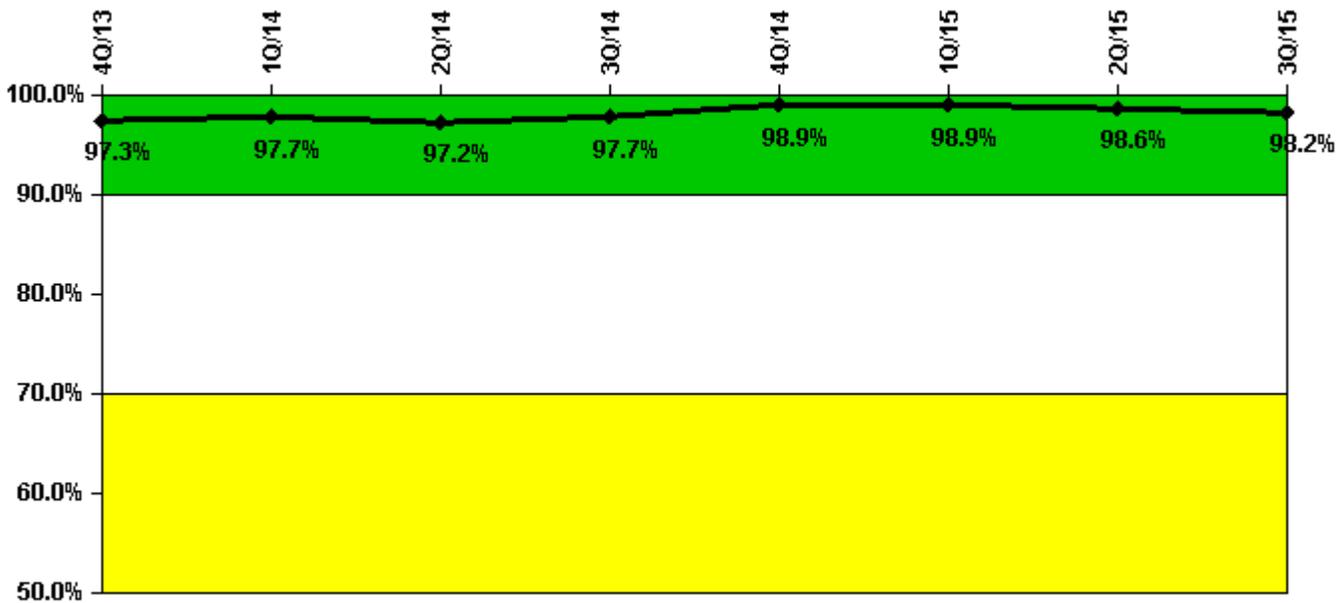
Reactor Coolant System Leakage	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum leakage	0.052	0.050	0.061	0.091	0.051	0.066	0.064	0.059	0.049	0.060	0.066	0.051
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
<b>Indicator value</b>	<b>0.5</b>	<b>0.5</b>	<b>0.6</b>	<b>0.9</b>	<b>0.5</b>	<b>0.7</b>	<b>0.6</b>	<b>0.6</b>	<b>0.5</b>	<b>0.6</b>	<b>0.7</b>	<b>0.5</b>

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	0.056	0.058	0.054	0.041	0.064	0.057	0.060	0.053	0.042	0.051	0.061	0.044
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
<b>Indicator value</b>	<b>0.6</b>	<b>0.6</b>	<b>0.5</b>	<b>0.4</b>	<b>0.6</b>	<b>0.6</b>	<b>0.6</b>	<b>0.5</b>	<b>0.4</b>	<b>0.5</b>	<b>0.6</b>	<b>0.4</b>

Licensee Comments: none

### Drill/Exercise Performance



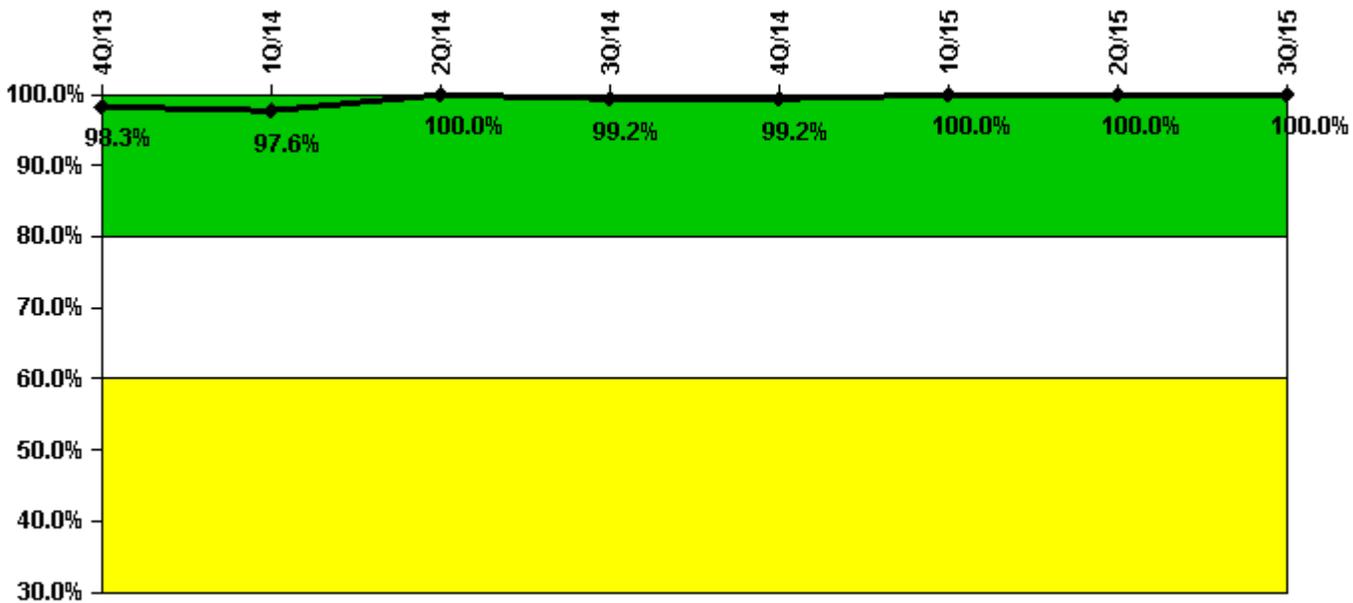
Thresholds: White < 90.0% Yellow < 70.0%

#### 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



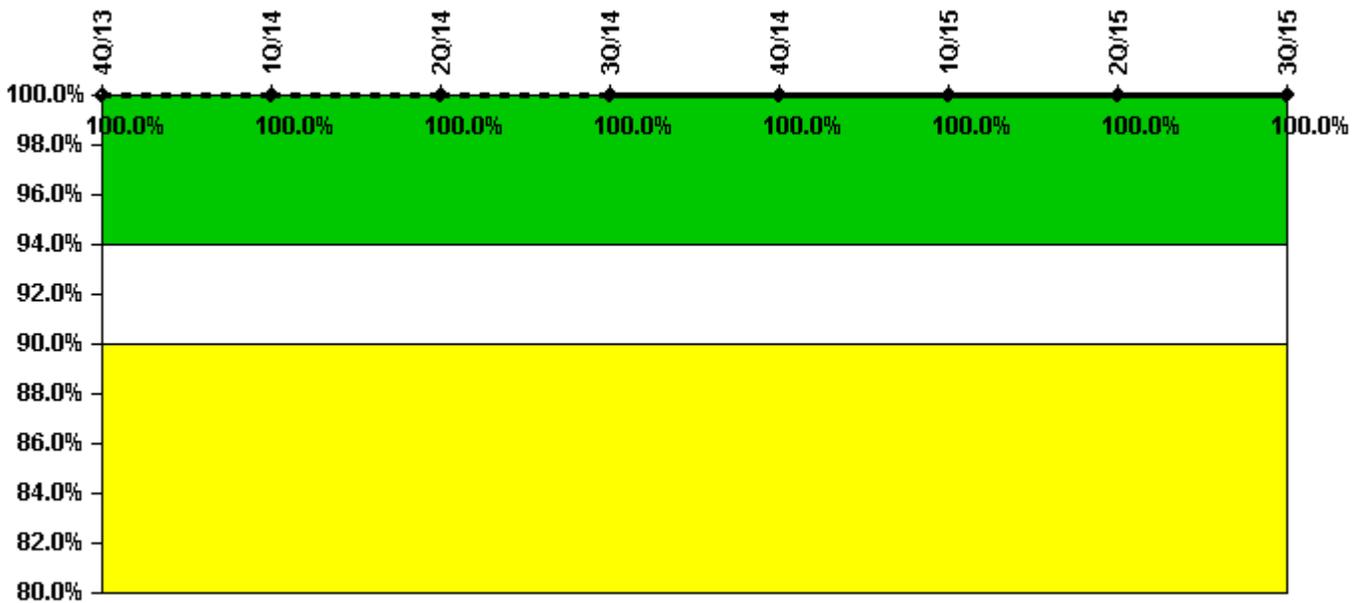
Thresholds: White < 80.0% Yellow < 60.0%

#### 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
<b>Indicator value</b>	<b>98.3%</b>	<b>97.6%</b>	<b>100.0%</b>	<b>99.2%</b>	<b>99.2%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

Licensee Comments: none

### Alert & Notification System



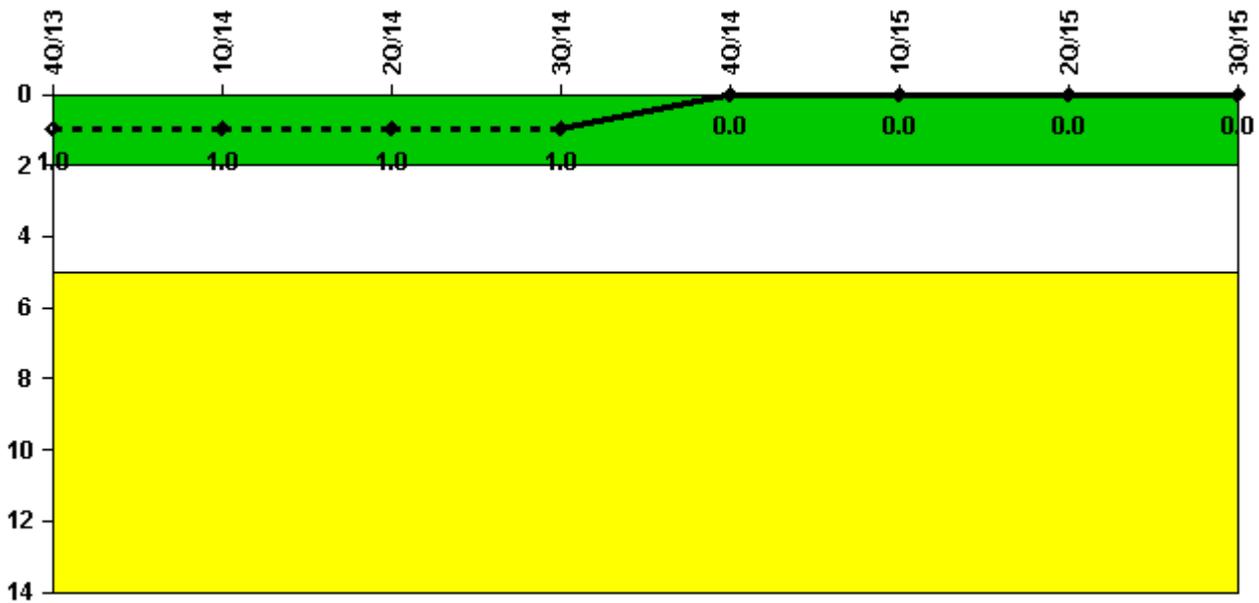
Thresholds: White < 94.0% Yellow < 90.0%

#### 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



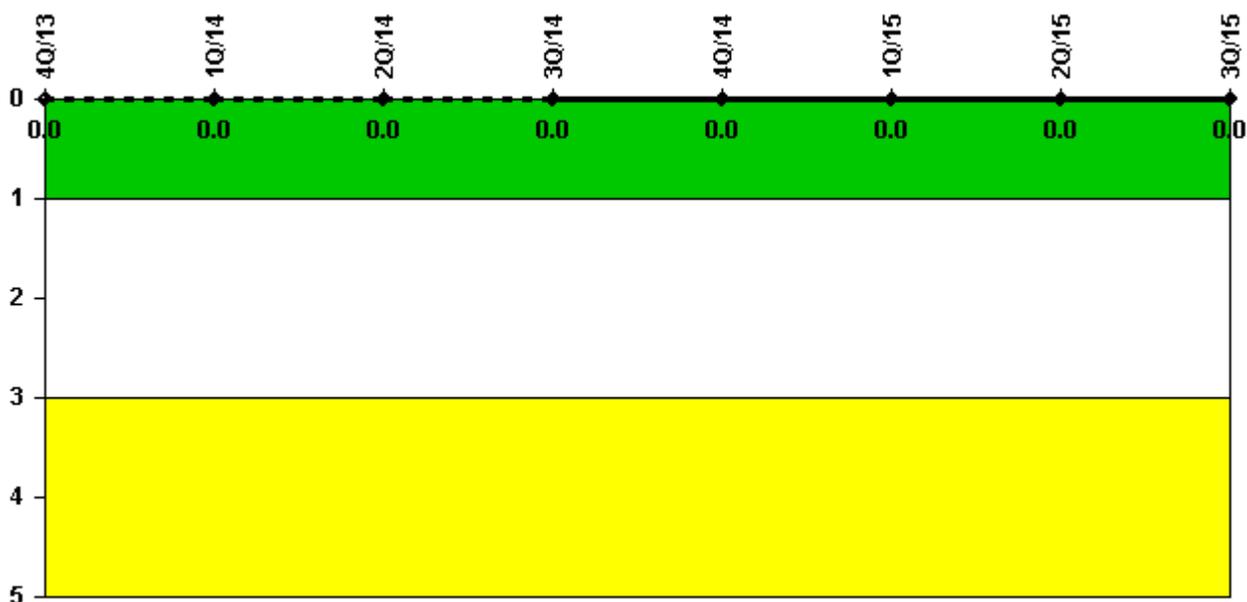
Thresholds: White > 2.0 Yellow > 5.0

#### 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
<b>Indicator value</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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*