

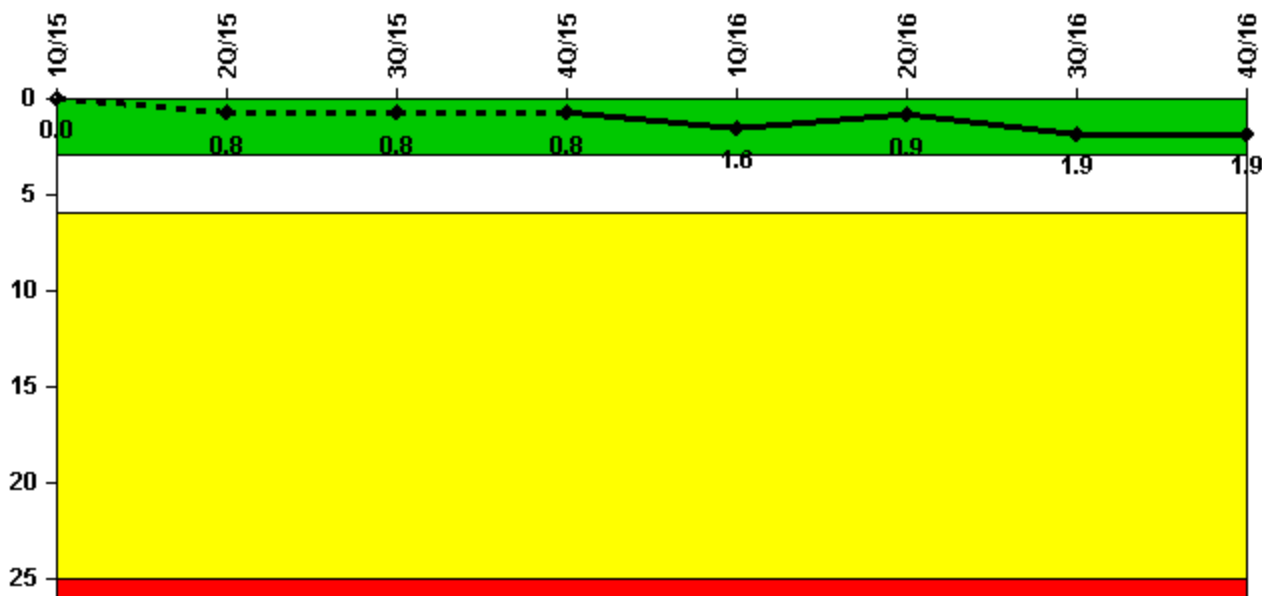
# Davis-Besse

## 4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

**Unplanned Scrams per 7000 Critical Hrs**



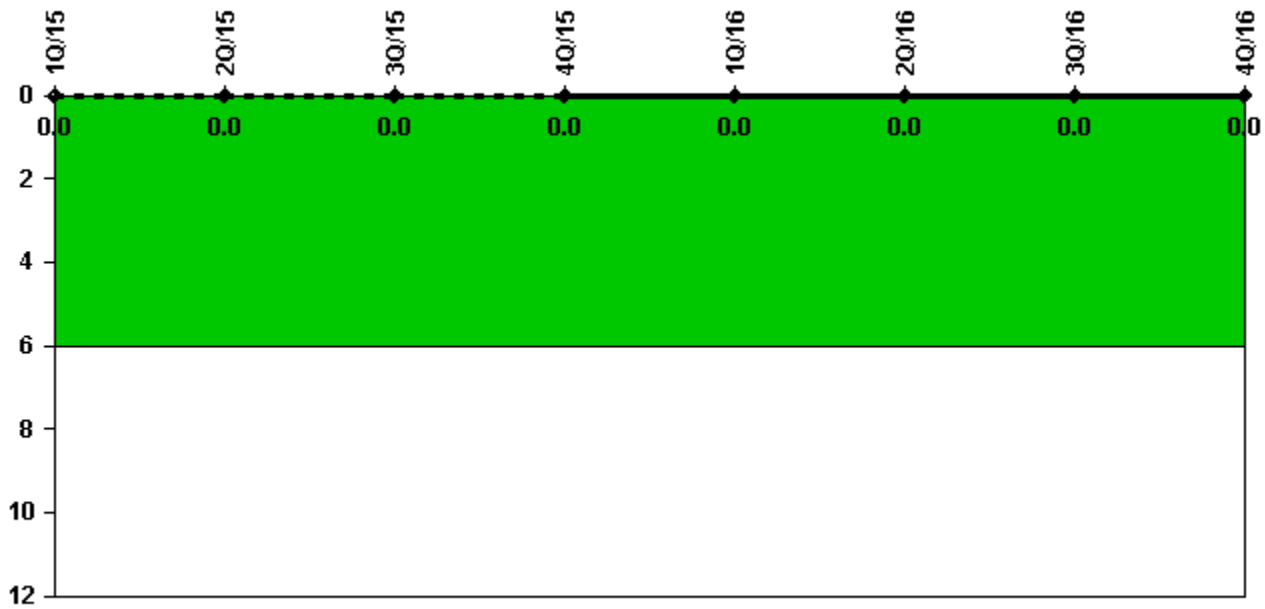
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

**Notes**

Unplanned Scrams per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned scrams	0	1.0	0	0	1.0	0	1.0	0
Critical hours	2159.0	2136.9	2208.0	2209.0	1993.2	1277.4	1958.8	2209.0
Indicator value	0	0.8	0.8	0.8	1.6	0.9	1.9	1.9

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



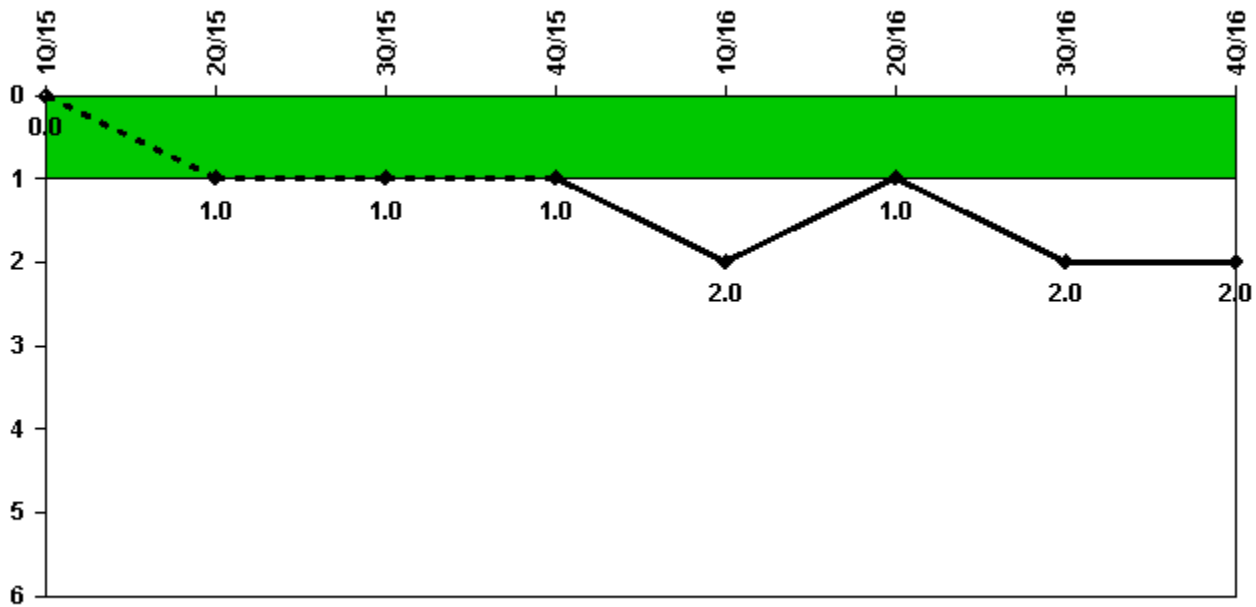
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2159.0	2136.9	2208.0	2209.0	1993.2	1277.4	1958.8	2209.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Unplanned Scrams with Complications



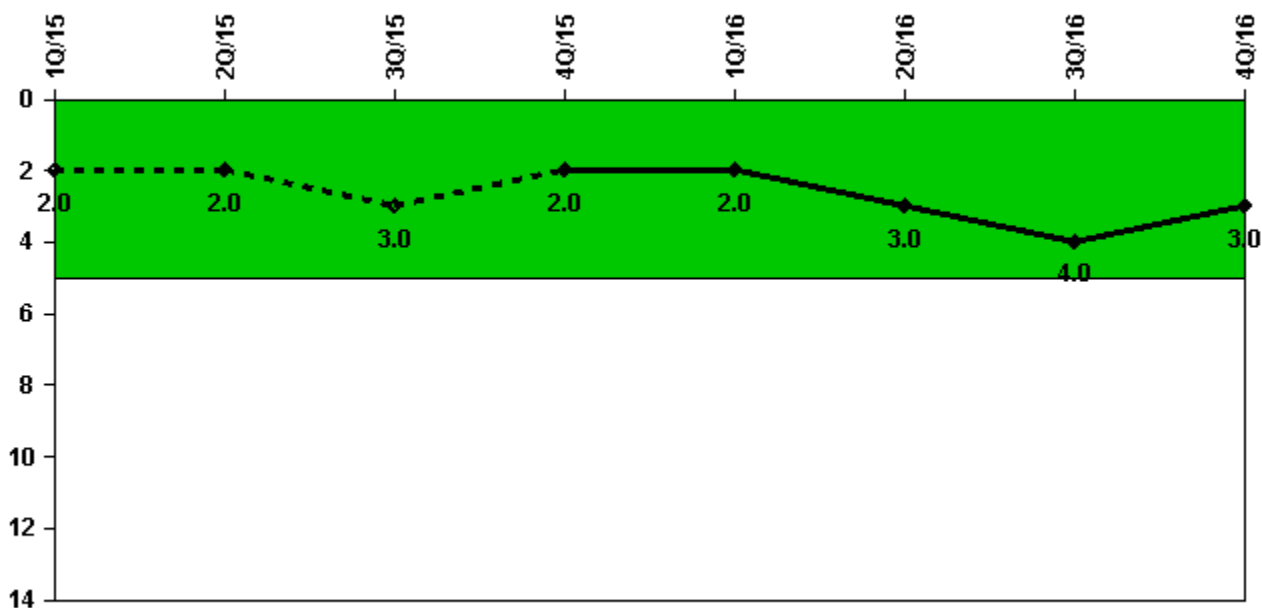
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Scrams with complications	0	1.0	0	0	1.0	0	1.0	0
<b>Indicator value</b>	<b>0.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>2.0</b>	<b>1.0</b>	<b>2.0</b>	<b>2.0</b>

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

#### Notes

Safety System Functional Failures (PWR)	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Safety System Functional Failures	0	0	1	1	0	1	2	0
<b>Indicator value</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>3</b>

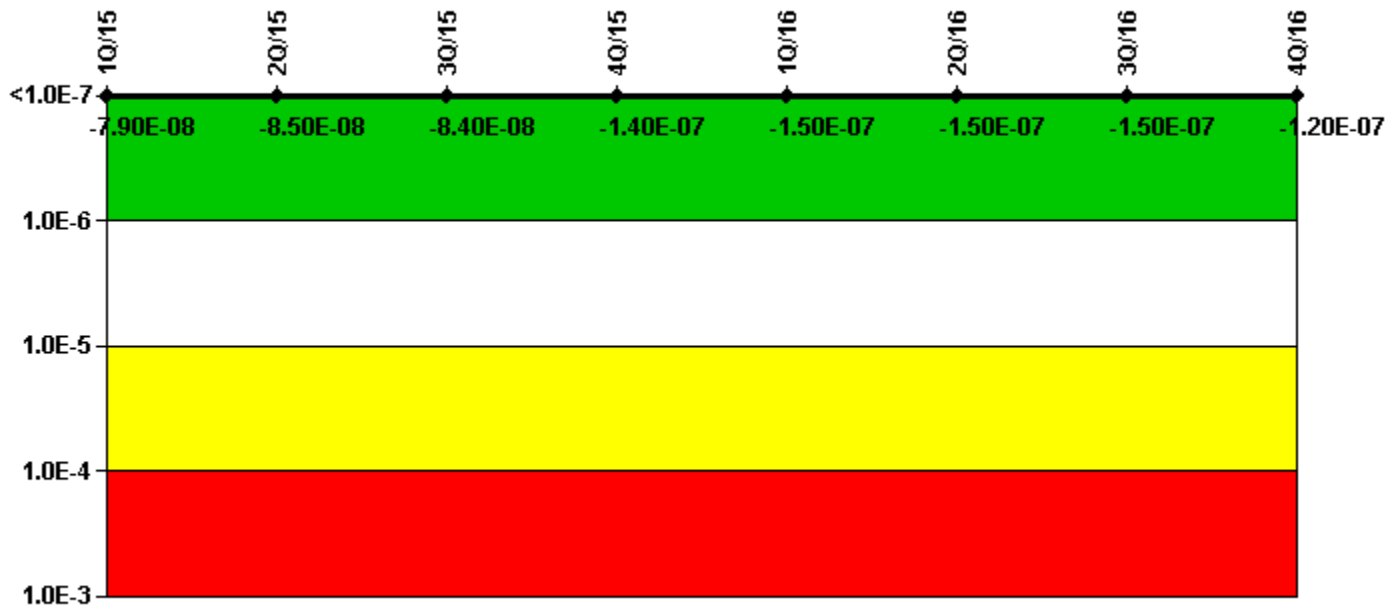
Licensee Comments:

3Q/16: LER 2016-006 and LER 2016-007

4Q/15: LER 2015-001 Revision 01, "Borated Water Storage Tank (BWST) Rendered Inoperable due to Use of Non-Seismic Purification System," dated 11/2/15

3Q/15: LER 2015-003-00, Inadvertent Breaker Operation Renders Control Room Emergency Air Temperature Control System Inoperable

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



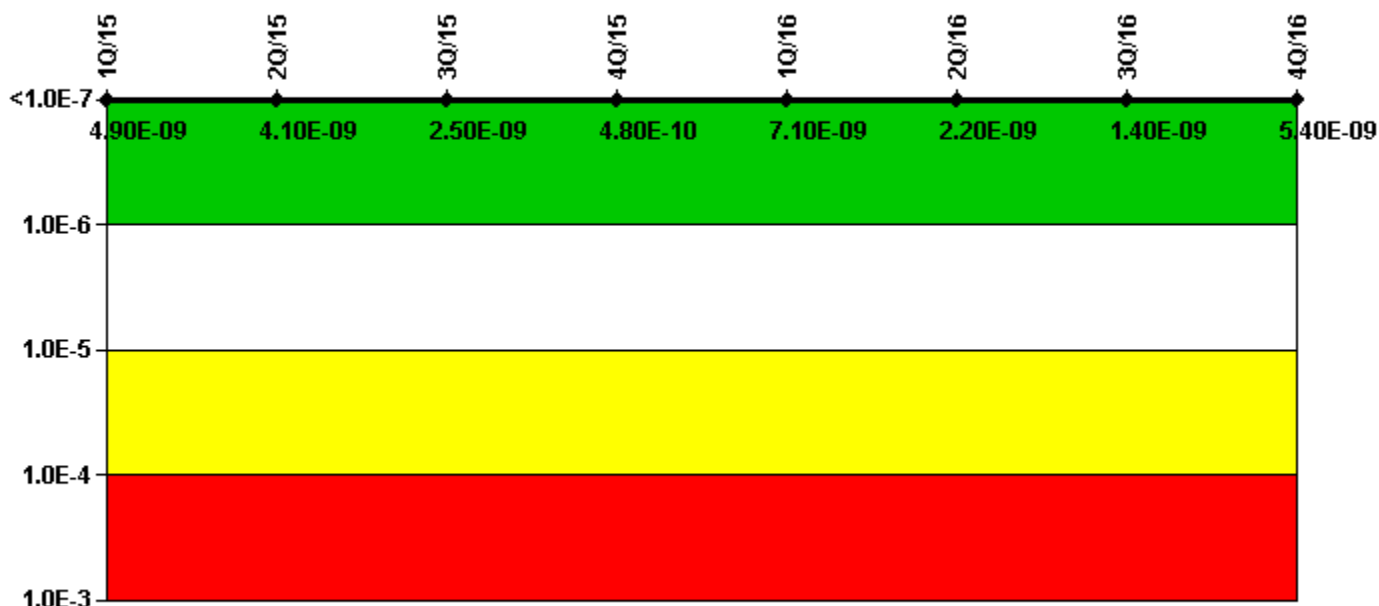
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI ( $\Delta$ CDF)	4.15E-08	3.60E-08	3.73E-08	-1.49E-08	-2.84E-08	-2.35E-08	-2.18E-08	9.99E-09
URI ( $\Delta$ CDF)	-1.21E-07	-1.21E-07	-1.21E-07	-1.22E-07	-1.21E-07	-1.29E-07	-1.30E-07	-1.31E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.90E-08	-8.50E-08	-8.40E-08	-1.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.20E-07

Licensee Comments: none

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



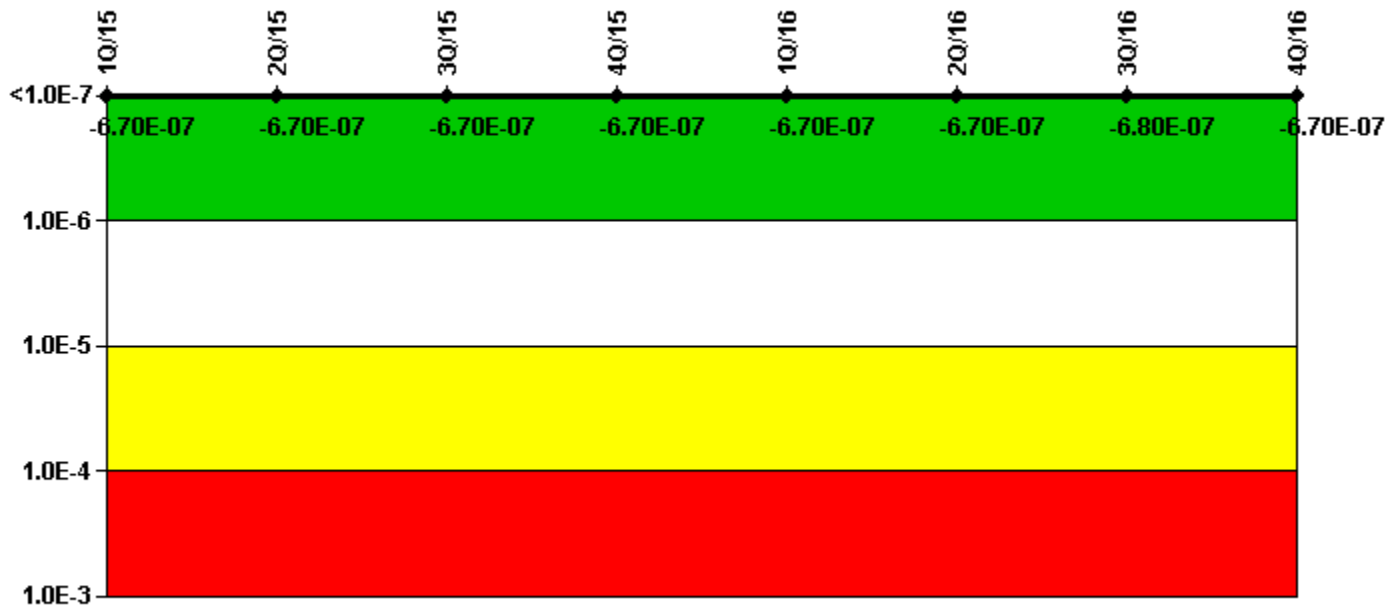
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI ( $\Delta$ CDF)	8.07E-09	6.85E-09	5.14E-09	3.26E-09	9.83E-09	5.42E-09	4.50E-09	8.55E-09
URI ( $\Delta$ CDF)	-3.20E-09	-2.73E-09	-2.68E-09	-2.78E-09	-2.71E-09	-3.20E-09	-3.15E-09	-3.13E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	4.90E-09	4.10E-09	2.50E-09	4.80E-10	7.10E-09	2.20E-09	1.40E-09	5.40E-09

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



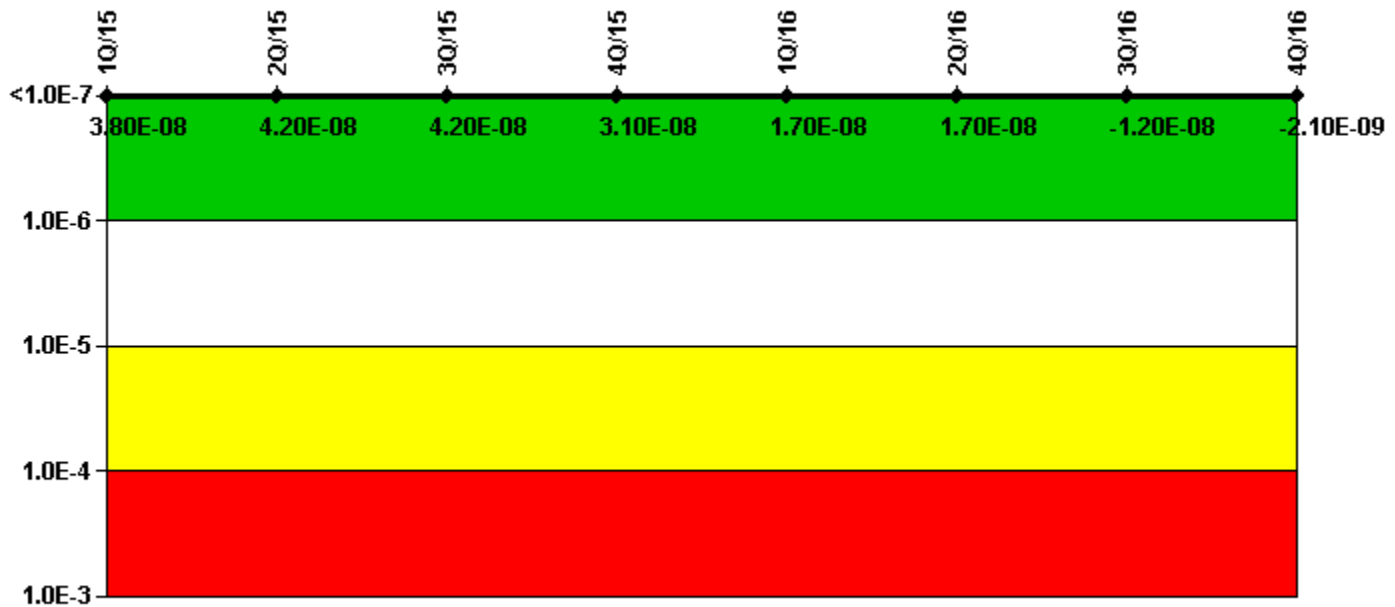
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI ( $\Delta$ CDF)	-1.05E-08	-1.04E-08	-6.60E-09	-1.87E-08	-1.81E-08	-1.71E-08	-2.37E-08	-1.31E-08
URI ( $\Delta$ CDF)	-6.55E-07	-6.55E-07	-6.59E-07	-6.53E-07	-6.55E-07	-6.53E-07	-6.55E-07	-6.59E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.70E-07	-6.70E-07	-6.70E-07	-6.70E-07	-6.70E-07	-6.70E-07	-6.80E-07	-6.70E-07

Licensee Comments: none

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



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

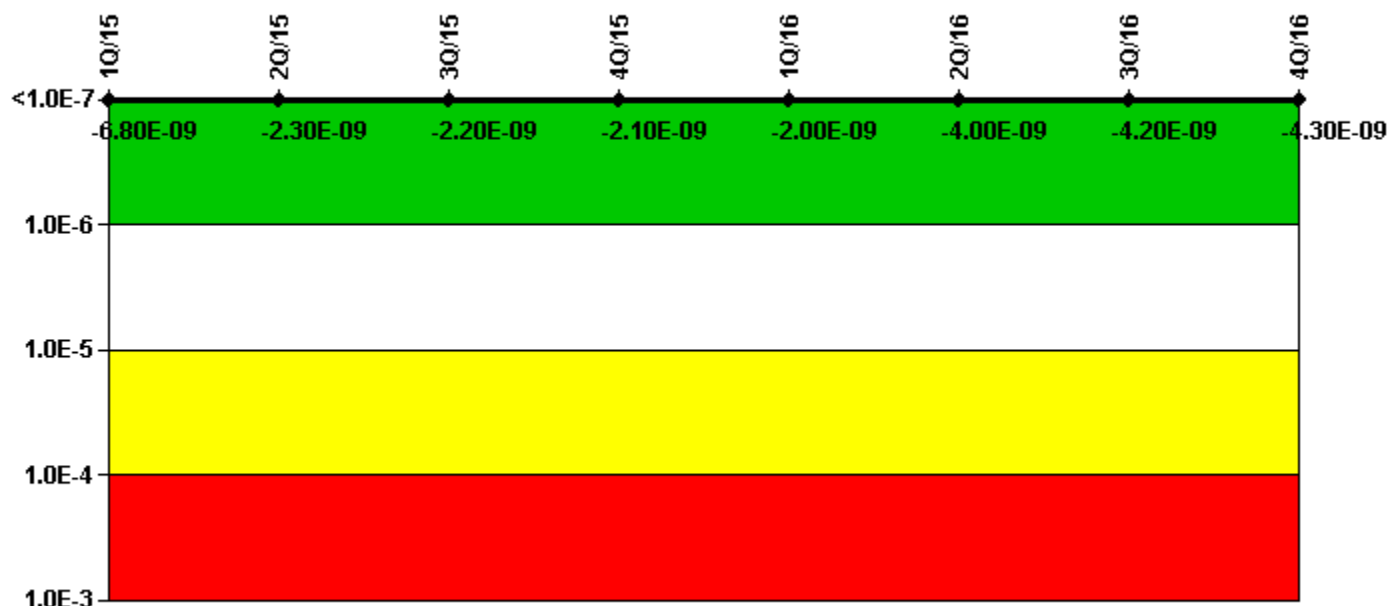
#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI ( $\Delta$ CDF)	2.94E-08	2.88E-08	2.87E-08	1.71E-08	3.81E-09	8.76E-09	1.04E-08	2.06E-08
URI ( $\Delta$ CDF)	8.41E-09	1.31E-08	1.33E-08	1.36E-08	1.35E-08	8.12E-09	-2.26E-08	-2.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.80E-08	4.20E-08	4.20E-08	3.10E-08	1.70E-08	1.70E-08	-1.20E-08	-2.10E-09

Licensee Comments: none



### Mitigating Systems Performance Index, Cooling Water Systems



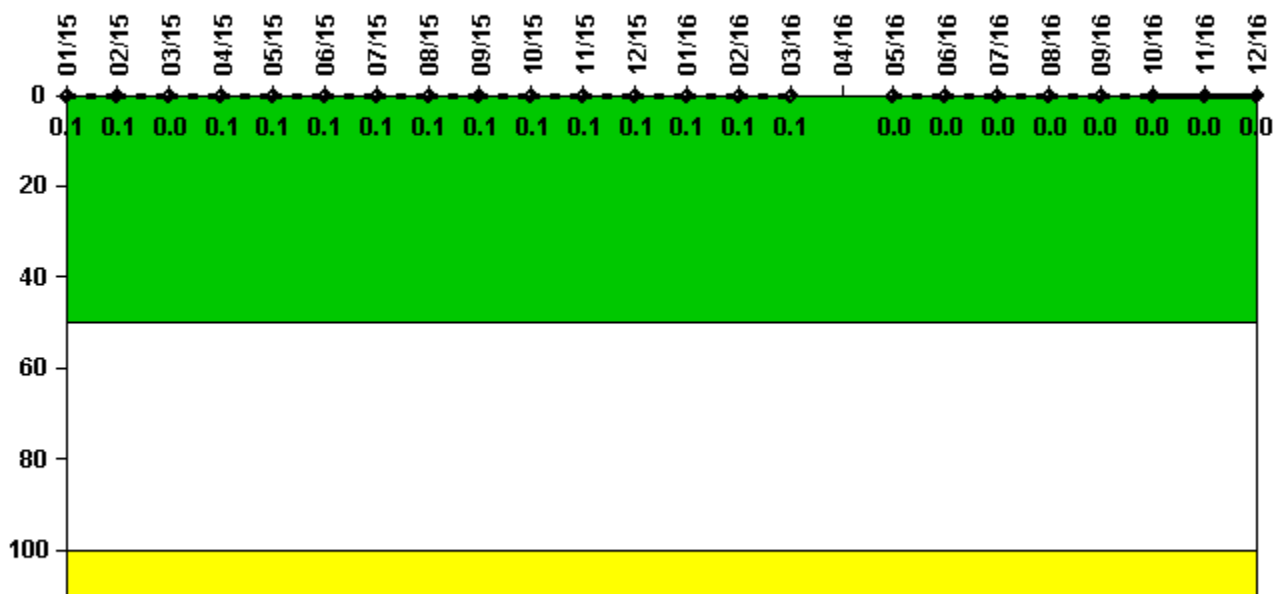
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI ( $\Delta$ CDF)	-3.58E-11	-3.55E-11	-3.55E-11	-3.55E-11	-3.55E-11	-3.55E-11	-3.55E-11	-3.55E-11
URI ( $\Delta$ CDF)	-6.74E-09	-2.25E-09	-2.15E-09	-2.06E-09	-1.96E-09	-3.99E-09	-4.19E-09	-4.26E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-6.80E-09	-2.30E-09	-2.20E-09	-2.10E-09	-2.00E-09	-4.00E-09	-4.20E-09	-4.30E-09

Licensee Comments: none

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum activity	0.000530	0.000500	0.000490	0.000590	0.000540	0.000580	0.000620	0.000530	0.000540	0.000540	0.000560	0.000610
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	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1

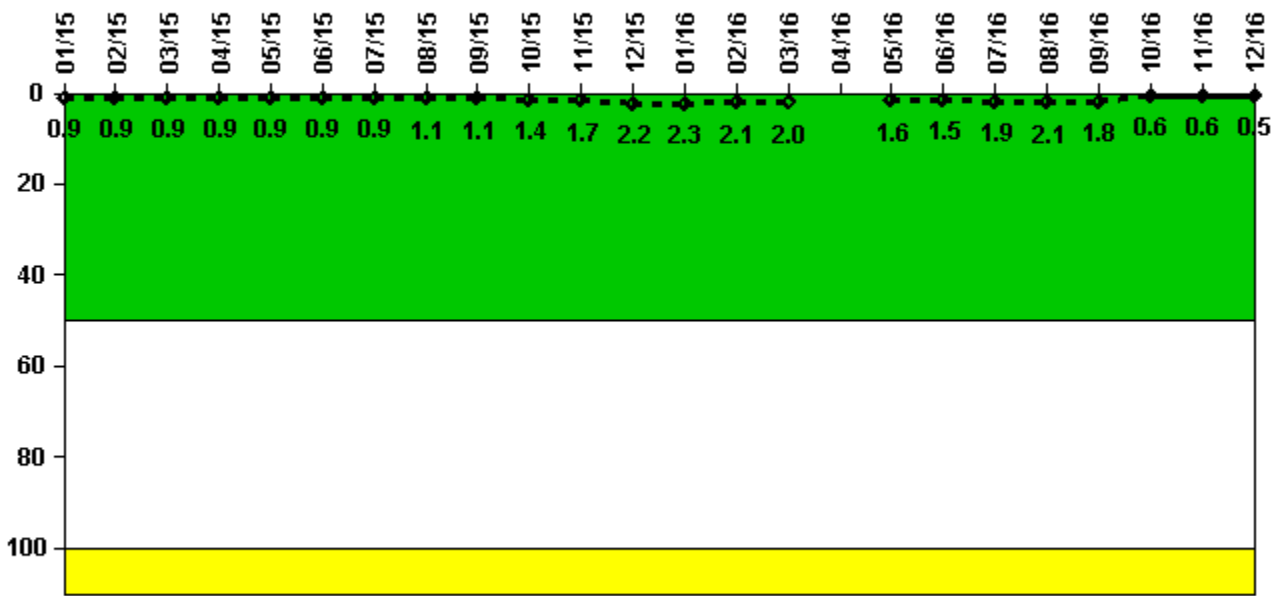
  

Reactor Coolant System Activity	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum activity	0.000560	0.000590	0.000510	N/A	0.000150	0.000160	0.000180	0.000180	0.000180	0.000190	0.000180	0.000180
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.1	0.1	0.1	N/A	0	0	0	0	0	0	0	0

Licensee Comments:

3/16: Minor data discrepancy corrected for February 2016, change did not affect indicator color.

### Reactor Coolant System Leakage



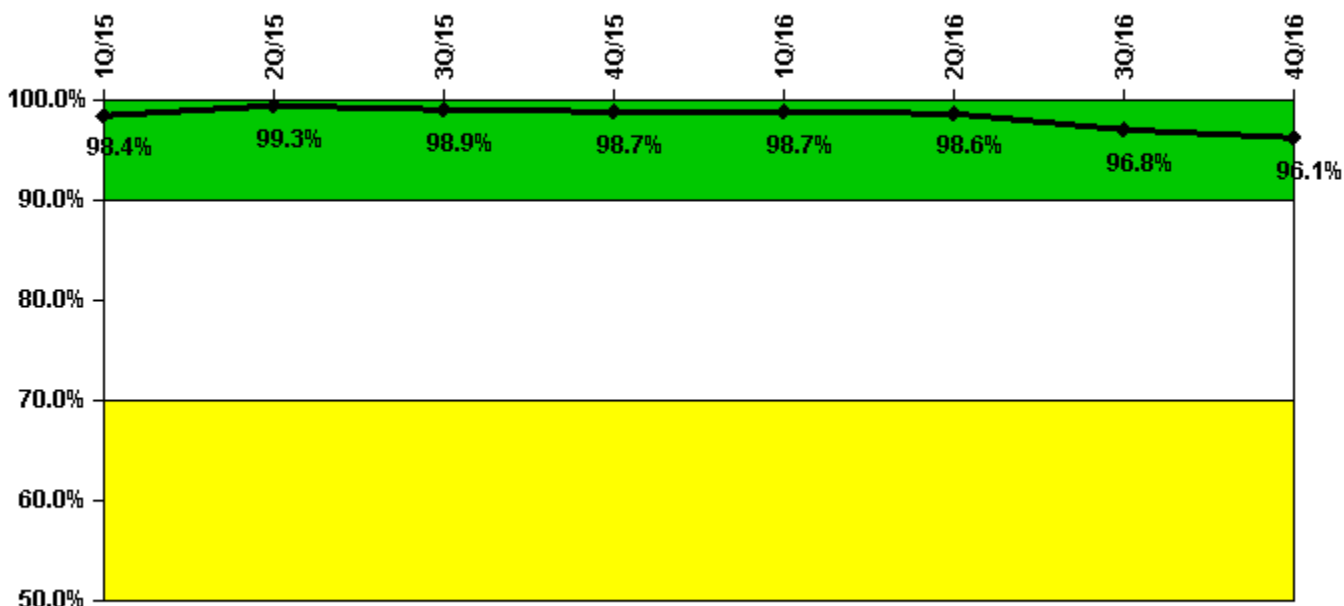
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	1/15	2/15	3/15	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15
Maximum leakage	0.093	0.090	0.093	0.094	0.092	0.089	0.089	0.108	0.110	0.144	0.167	0.218
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	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.4	1.7	2.2
Reactor Coolant System Leakage	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum leakage	0.226	0.213	0.204	N/A	0.161	0.152	0.187	0.212	0.178	0.056	0.058	0.052
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	2.3	2.1	2.0	N/A	1.6	1.5	1.9	2.1	1.8	0.6	0.6	0.5

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

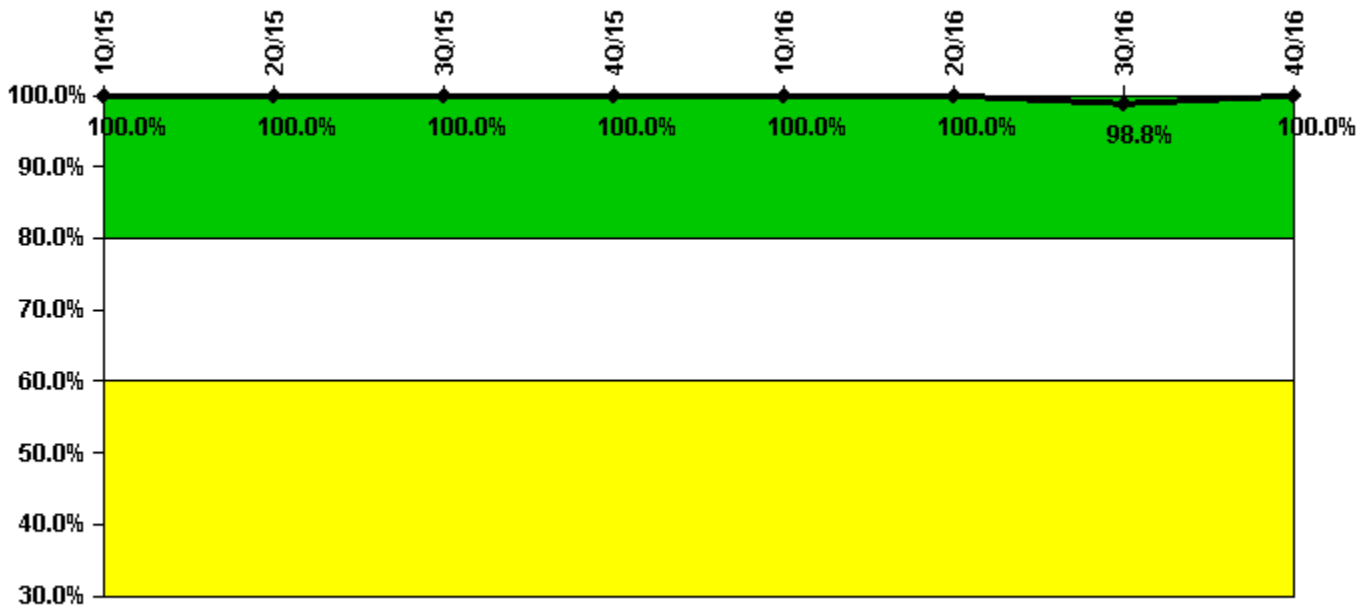
#### Notes

Drill/Exercise Performance	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful opportunities	32.0	16.0	21.0	47.0	0	6.0	39.0	59.0
Total opportunities	32.0	18.0	22.0	47.0	0	6.0	44.0	60.0
Indicator value	98.4%	99.3%	98.9%	98.7%	98.7%	98.6%	96.8%	96.1%

Licensee Comments:

3Q/16: Previous data for 2015-2016 revised to include Emergency Assistant Plant Managers that were not previously counted due to having inactive licenses. These successful drill opportunities did not affect the indicator color.

### ERO Drill Participation



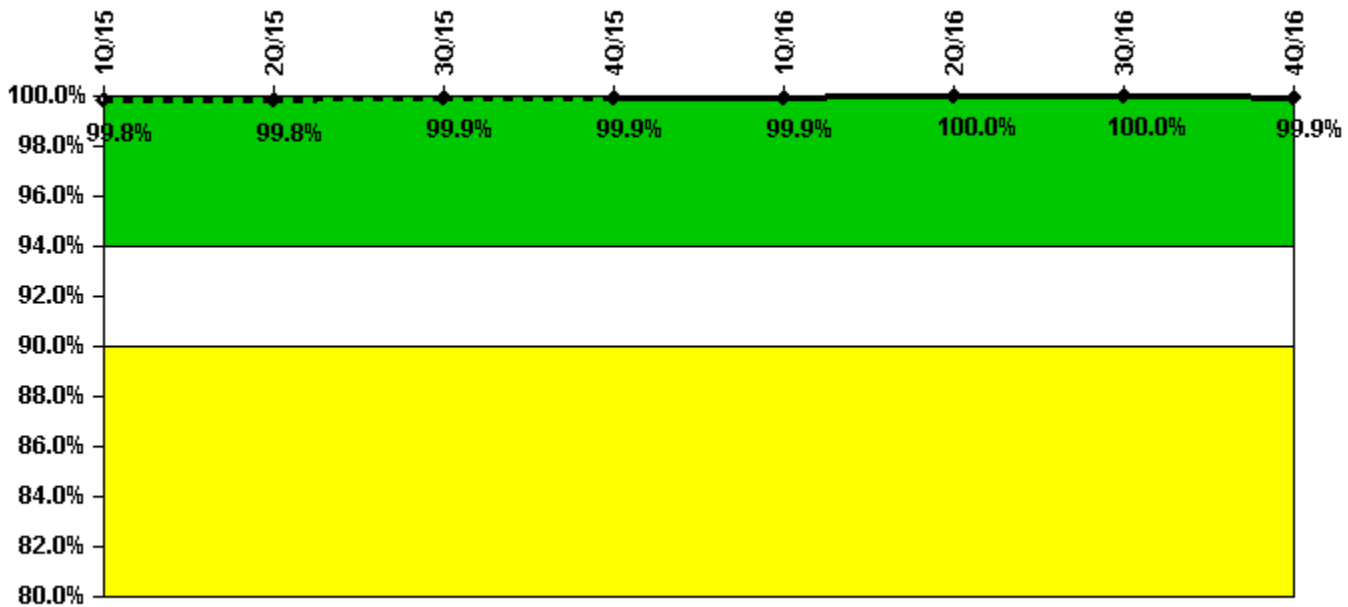
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Participating Key personnel	87.0	87.0	86.0	91.0	90.0	88.0	84.0	87.0
Total Key personnel	87.0	87.0	86.0	91.0	90.0	88.0	85.0	87.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.8%	100.0%

Licensee Comments: none

### Alert & Notification System



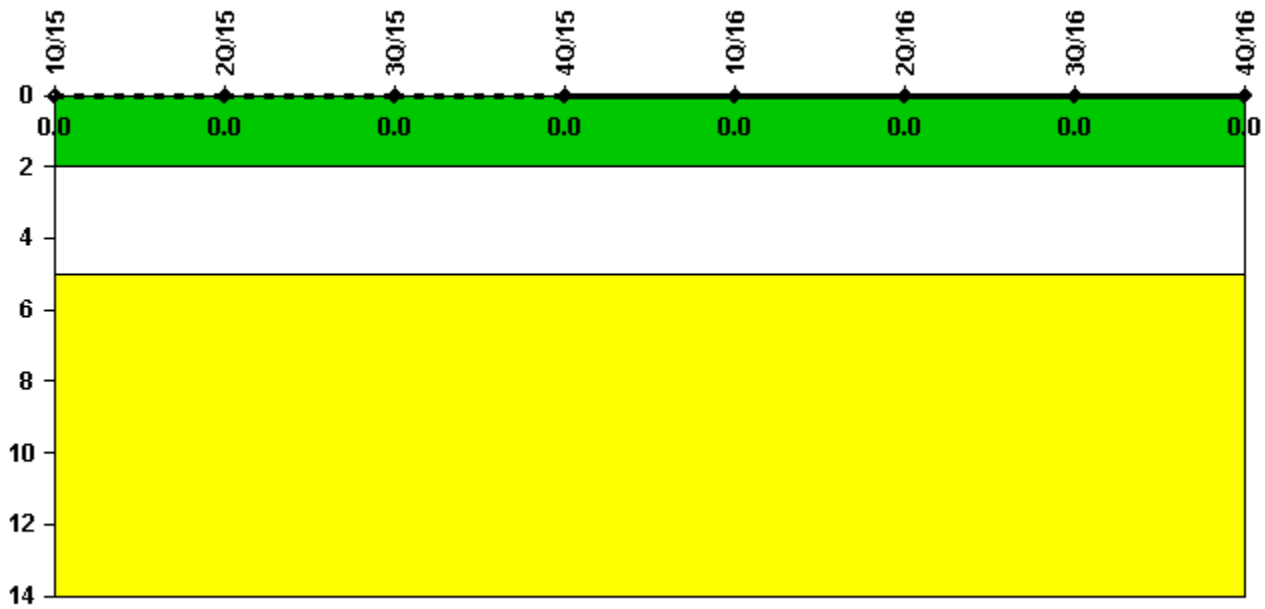
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful siren-tests	702	701	702	701	702	702	756	700
Total sirens-tests	702	702	702	702	702	702	756	702
Indicator value	99.8%	99.8%	99.9%	99.9%	99.9%	100.0%	100.0%	99.9%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



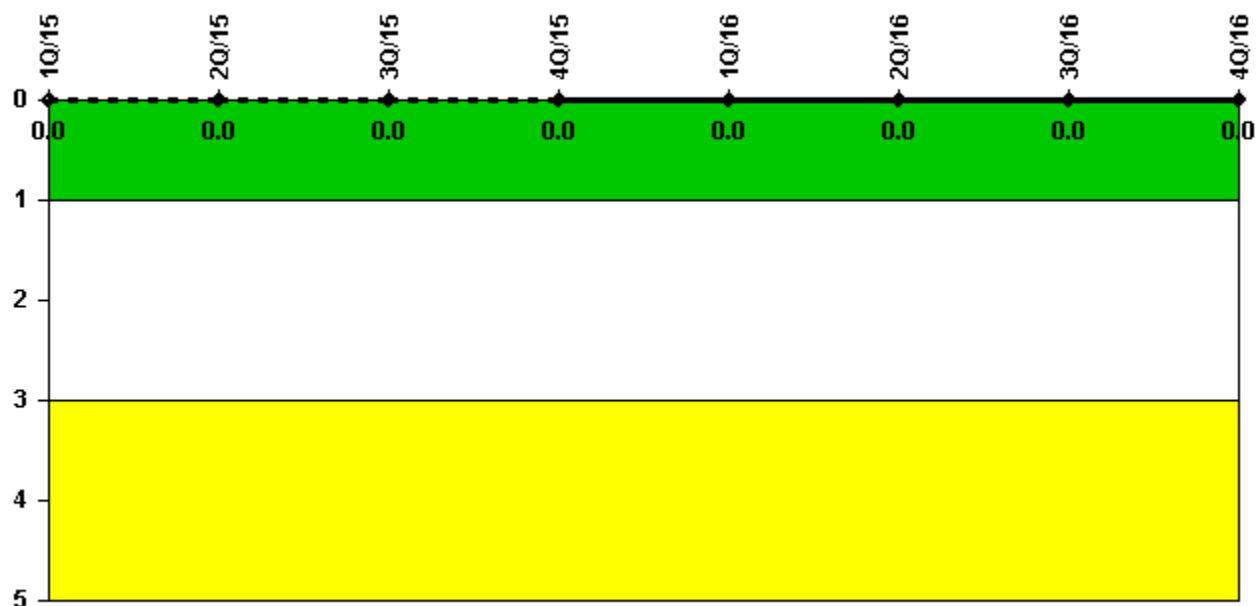
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
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
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</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	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

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: January 24, 2017*