

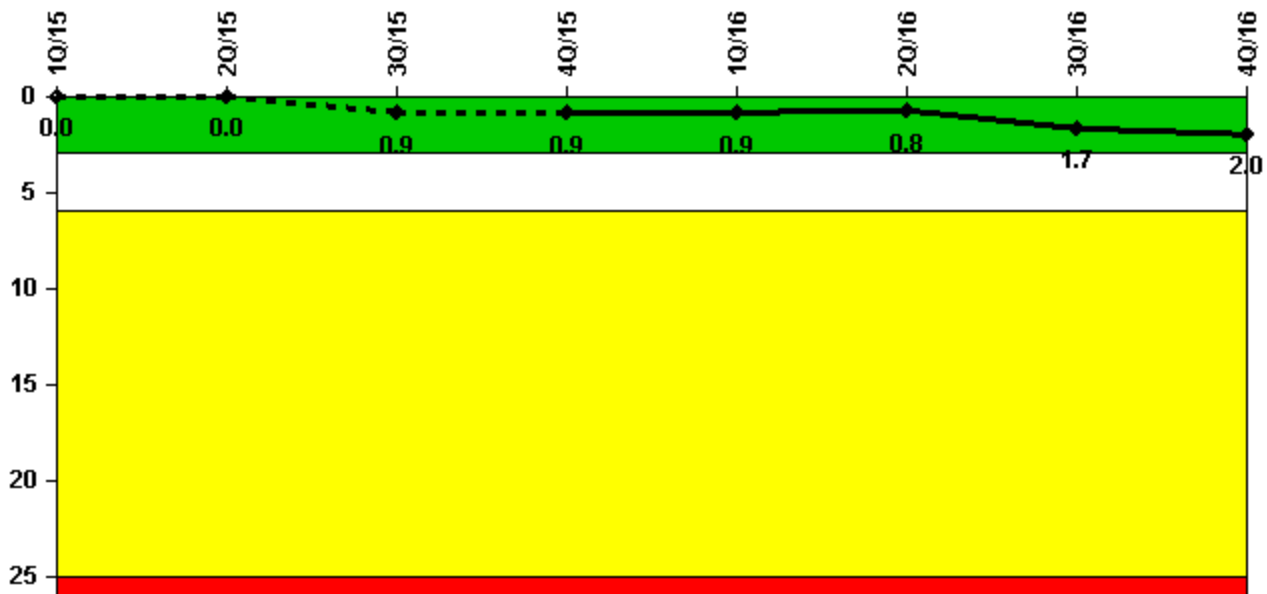
Saint Lucie 1

4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Unplanned Scrams per 7000 Critical Hrs



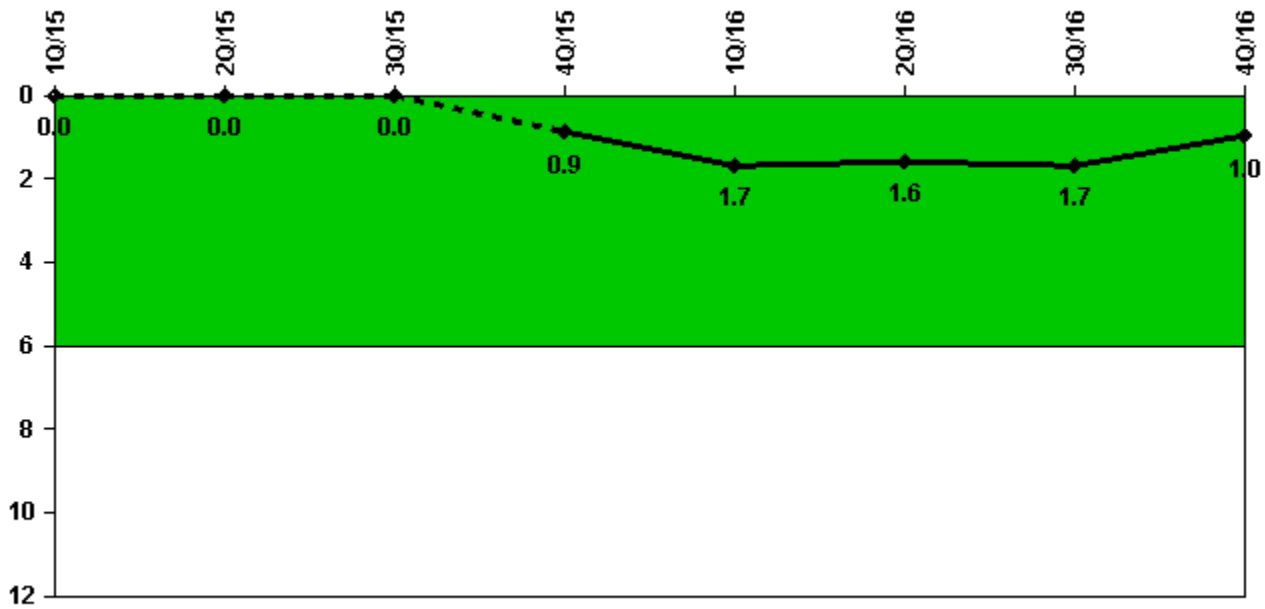
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	0	1.0	0	0	0	2.0	0
Critical hours	1943.0	1653.2	2160.6	2209.0	2183.0	2184.0	1511.8	1291.1
Indicator value	0	0	0.9	0.9	0.9	0.8	1.7	2.0

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



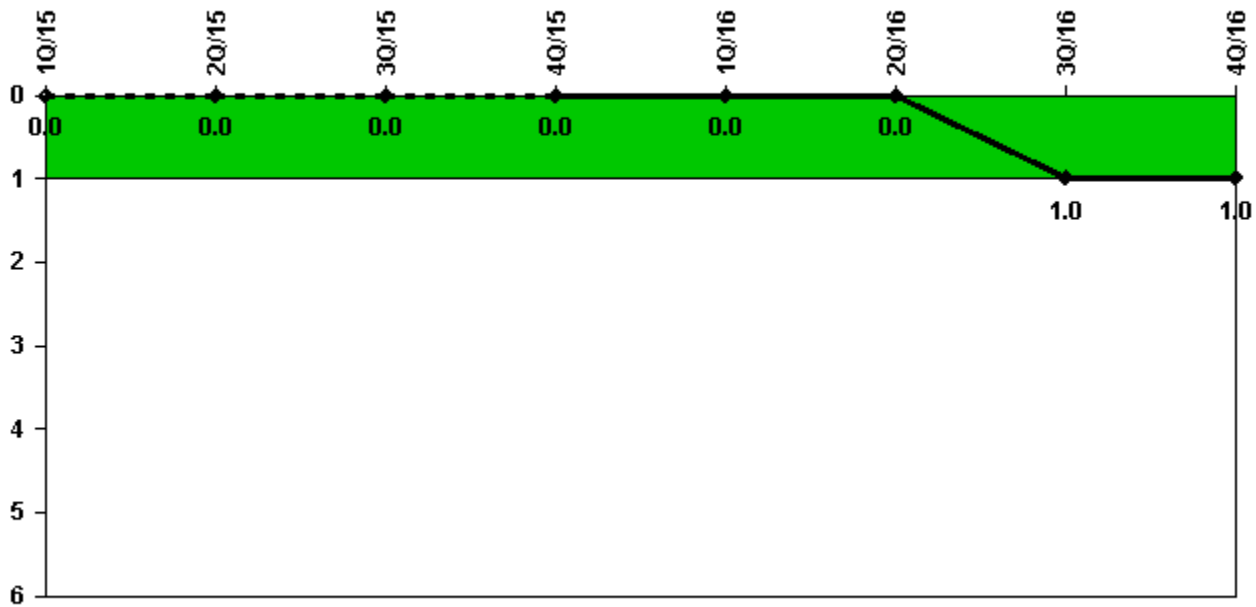
Thresholds: White > 6.0

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	1.0	1.0	0	0	0
Critical hours	1943.0	1653.2	2160.6	2209.0	2183.0	2184.0	1511.8	1291.1
Indicator value	0	0	0	0.9	1.7	1.6	1.7	1.0

Licensee Comments: none

Unplanned Scrams with Complications



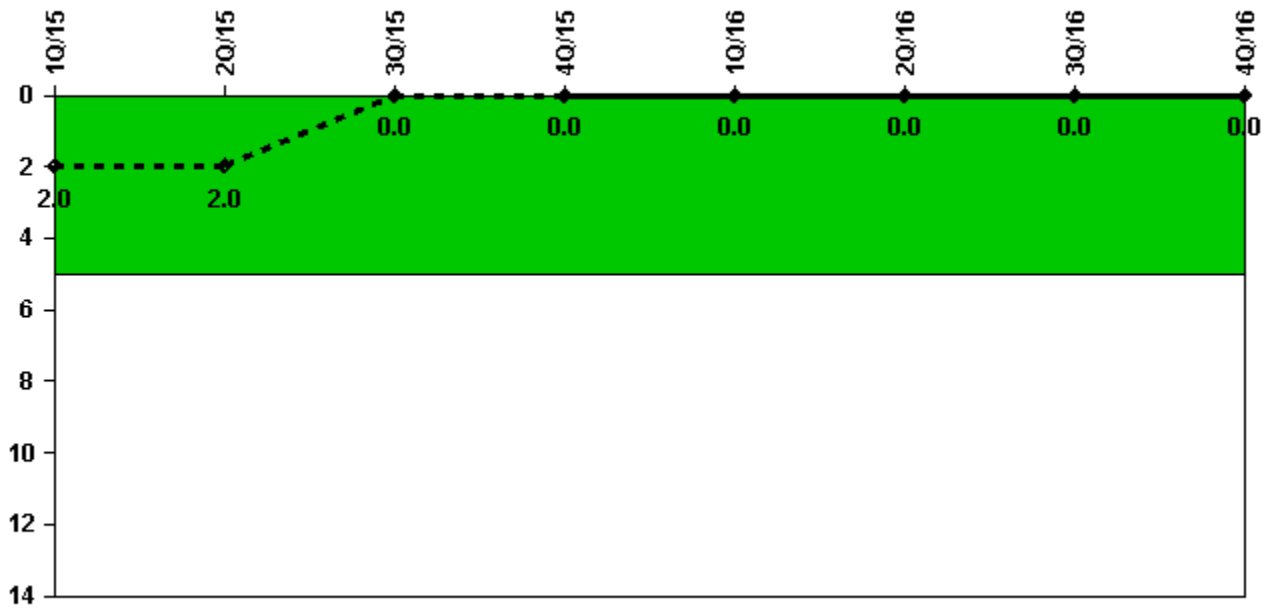
Thresholds: White > 1.0

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	0	0	0	0	0	1.0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0

Licensee Comments: none

Safety System Functional Failures (PWR)



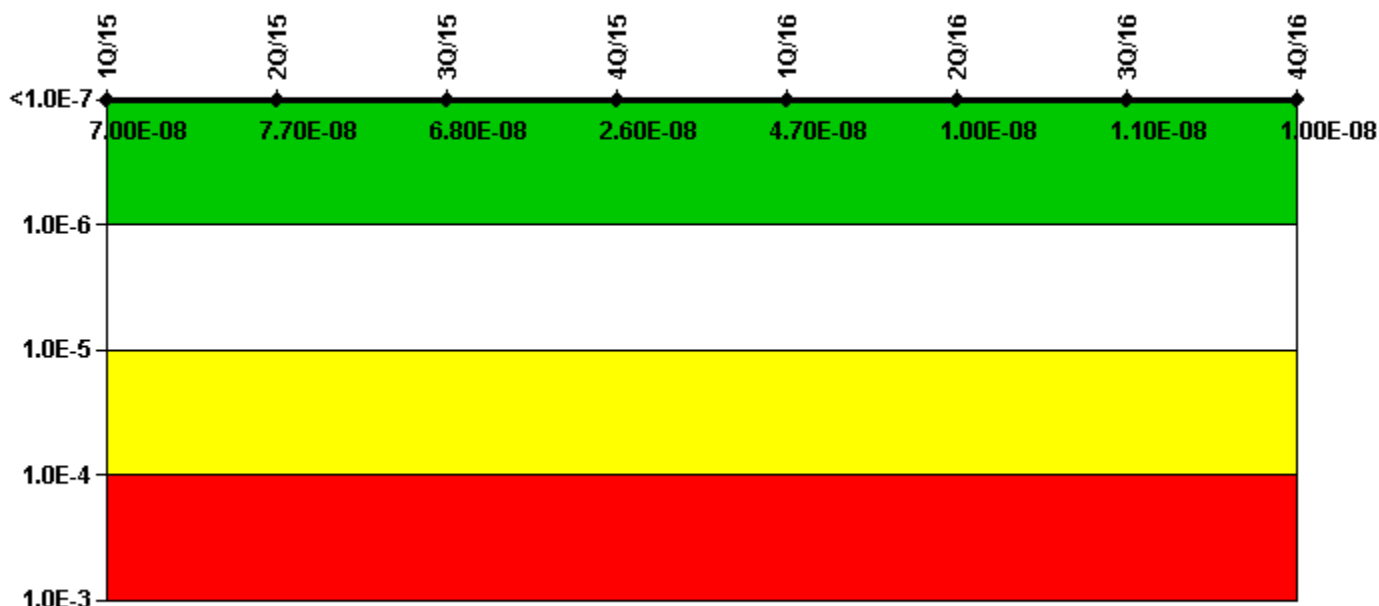
Thresholds: White > 5.0

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	0	0	0	0	0	0
Indicator value	2	2	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

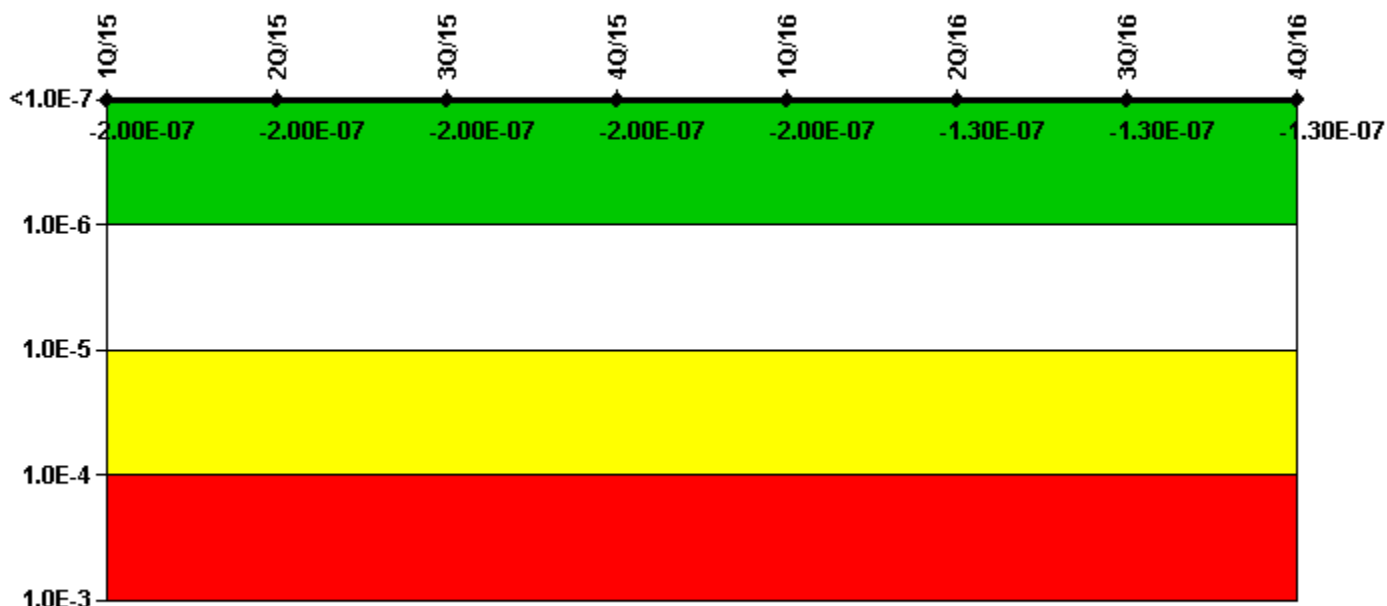
Mitigating Systems Performance Index, Emergency AC Power System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	5.27E-08	5.26E-08	4.36E-08	3.80E-08	5.86E-08	1.94E-08	1.99E-08	1.96E-08
URI (Δ CDF)	1.70E-08	2.40E-08	2.40E-08	-1.19E-08	-1.19E-08	-8.88E-09	-9.17E-09	-9.07E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	7.00E-08	7.70E-08	6.80E-08	2.60E-08	4.70E-08	1.00E-08	1.10E-08	1.00E-08

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

2Q/16: Changed PRA Parameter(s). PRA coefficients and CDF were changed due to updated PRA model

Mitigating Systems Performance Index, High Pressure Injection System



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

Notes

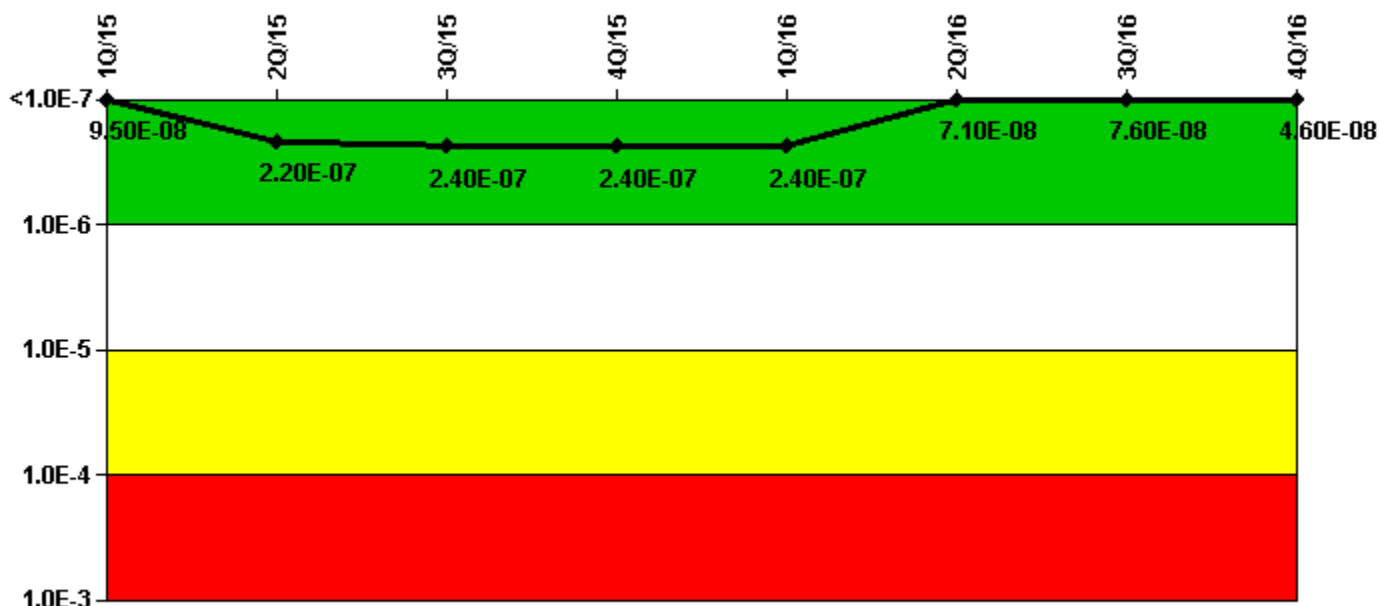
Mitigating Systems Performance Index, High Pressure Injection System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-3.36E-08	-3.36E-08	-3.36E-08	-3.36E-08	-3.36E-08	-3.00E-08	-3.00E-08	-3.00E-08
URI (Δ CDF)	-1.63E-07	-1.63E-07	-1.63E-07	-1.63E-07	-1.63E-07	-9.53E-08	-9.53E-08	-9.53E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-1.30E-07	-1.30E-07	-1.30E-07

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

2Q/16: Changed PRA Parameter(s). PRA coefficients and CDF were changed due to updated PRA model

Mitigating Systems Performance Index, Heat Removal System



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

Notes

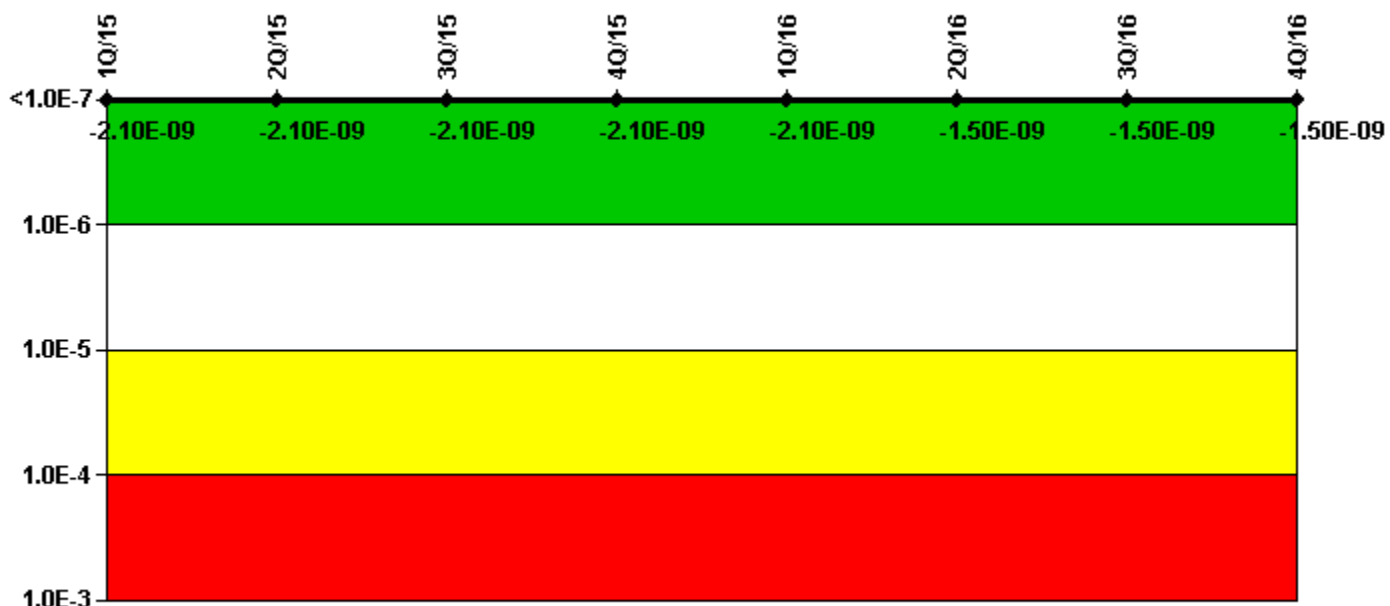
Mitigating Systems Performance Index, Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-1.31E-08	-5.18E-09	1.11E-08	1.08E-08	1.13E-08	1.56E-08	2.16E-08	1.58E-08
URI (Δ CDF)	1.09E-07	2.25E-07	2.25E-07	2.25E-07	2.25E-07	5.56E-08	5.39E-08	3.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	9.50E-08	2.20E-07	2.40E-07	2.40E-07	2.40E-07	7.10E-08	7.60E-08	4.60E-08

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

2Q/16: Changed PRA Parameter(s). PRA coefficients and CDF were changed due to updated PRA model

Mitigating Systems Performance Index, Residual Heat Removal System



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

Notes

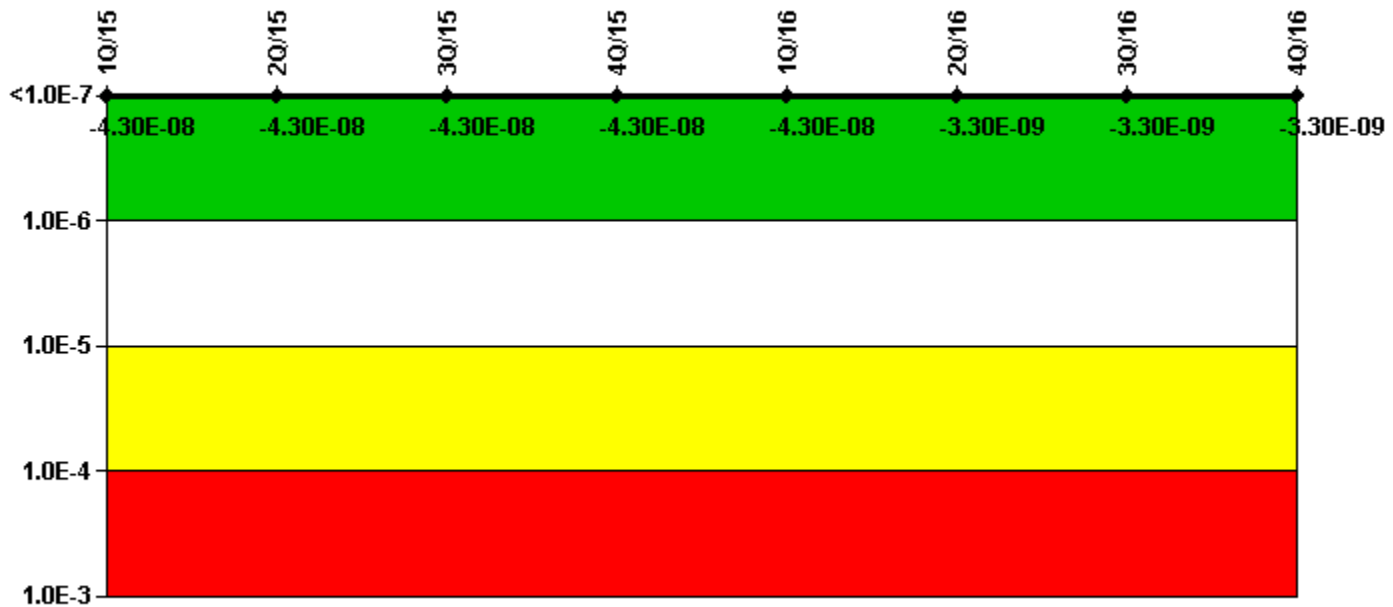
Mitigating Systems Performance Index, Residual Heat Removal System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-1.41E-10	-1.41E-10	-1.41E-10	-1.41E-10	-1.41E-10	-8.27E-11	-6.63E-11	-6.64E-11
URI (Δ CDF)	-1.96E-09	-1.96E-09	-1.96E-09	-1.96E-09	-1.96E-09	-1.40E-09	-1.40E-09	-1.40E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.10E-09	-2.10E-09	-2.10E-09	-2.10E-09	-2.10E-09	-1.50E-09	-1.50E-09	-1.50E-09

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

2Q/16: Changed PRA Parameter(s). PRA coefficients and CDF were changed due to updated PRA model

Mitigating Systems Performance Index, Cooling Water Systems



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

Notes

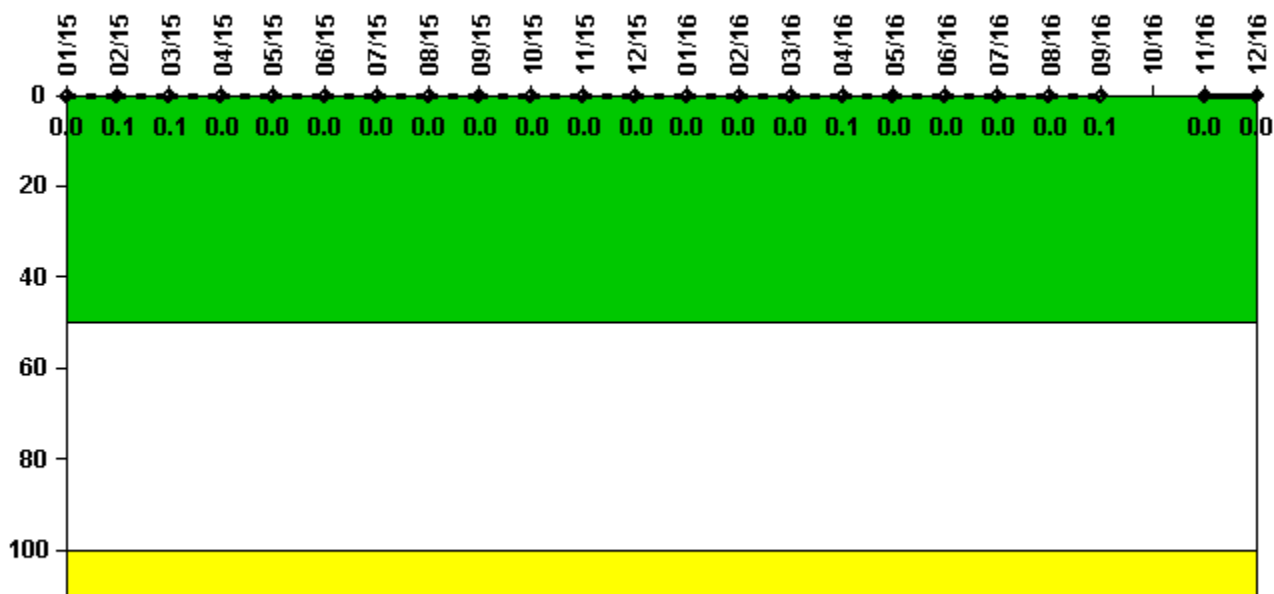
Mitigating Systems Performance Index, Cooling Water Systems	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
UAI (Δ CDF)	-3.11E-08	-3.11E-08	-3.11E-08	-3.11E-08	-3.11E-08	-2.93E-09	-2.92E-09	-2.92E-09
URI (Δ CDF)	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-3.38E-10	-3.38E-10	-3.38E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-4.30E-08	-4.30E-08	-4.30E-08	-4.30E-08	-4.30E-08	-3.30E-09	-3.30E-09	-3.30E-09

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

2Q/16: Changed PRA Parameter(s). PRA coefficients and CDF were changed due to updated PRA model

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

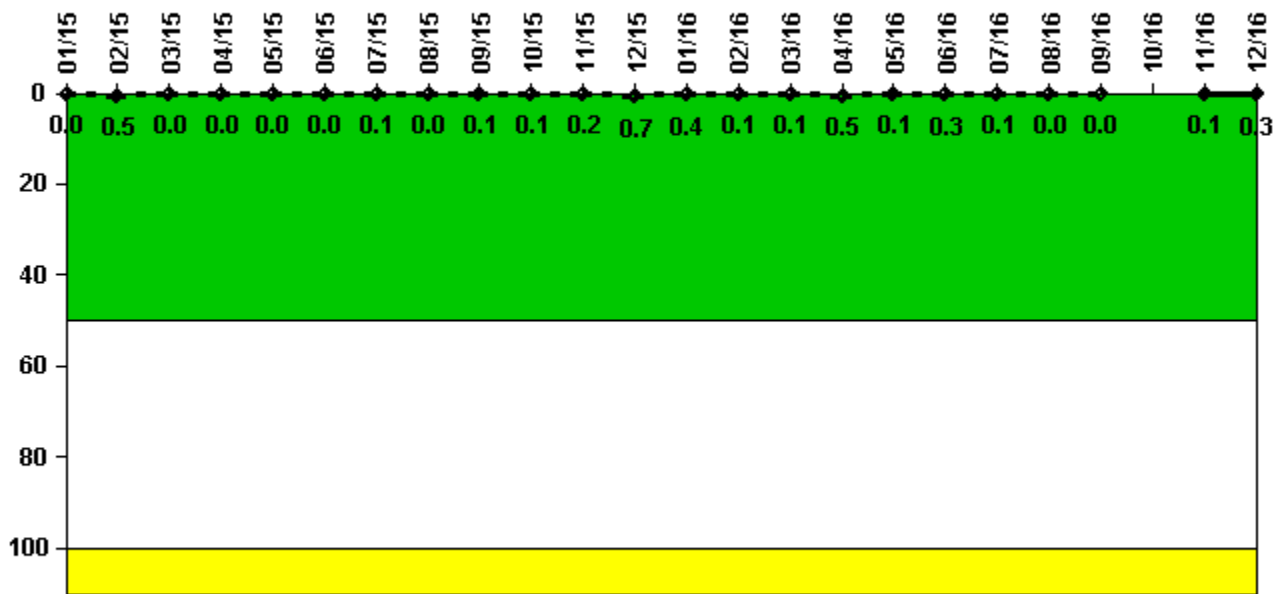
Notes

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	0.000415	0.000500	0.001210	0.000143	0.000268	0.000274	0.000286	0.000257	0.000342	0.000351	0.000319	0.000354
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	0.1	0.1	0	0	0	0	0	0	0	0	0

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	0.000357	0.000360	0.000373	0.000640	0.000390	0.000381	0.000420	0.000357	0.000529	N/A	0.000214	0.000228
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	0.1	0	0	0	0	0.1	N/A	0	0

Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

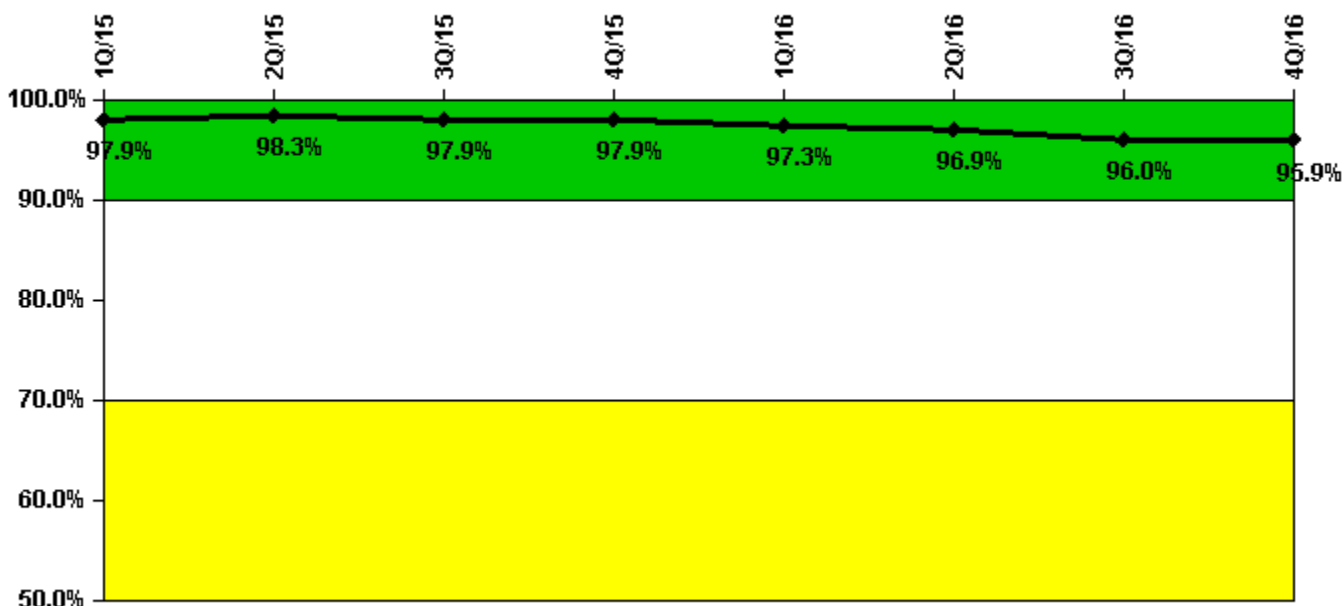
Notes

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	0.001	0.052	0	0	0	0	0.009	0.002	0.013	0.011	0.022	0.068
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	0.5	0	0	0	0	0.1	0	0.1	0.1	0.2	0.7

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	0.036	0.013	0.011	0.050	0.009	0.029	0.011	0.001	0.002	N/A	0.005	0.027
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	0.4	0.1	0.1	0.5	0.1	0.3	0.1	0	0	N/A	0.1	0.3

Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

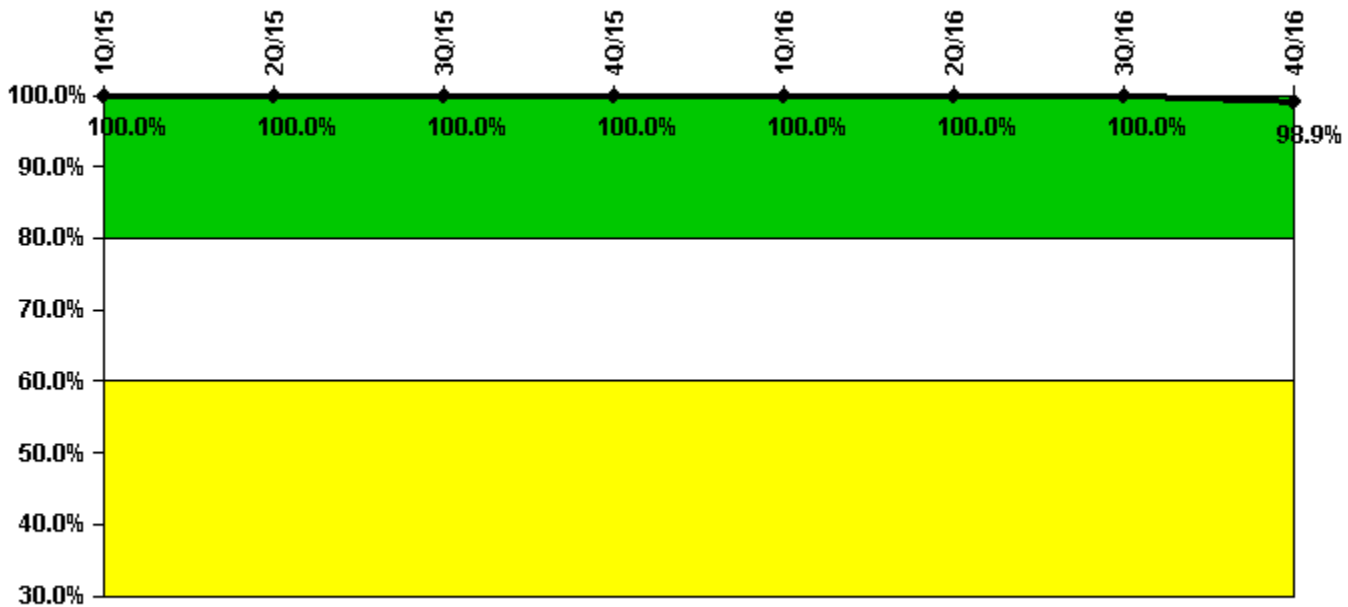
Notes

Drill/Exercise Performance	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful opportunities	31.0	31.0	20.0	24.0	17.0	17.0	25.0	24.0
Total opportunities	33.0	31.0	22.0	25.0	18.0	17.0	27.0	24.0
Indicator value	97.9%	98.3%	97.9%	97.9%	97.3%	96.9%	96.0%	95.9%

Licensee Comments:

3Q/16: One drill/exercise opportunity currently under evaluation but conservatively reported as a failed opportunity. Pending final resolution this PI may change.

ERO Drill Participation



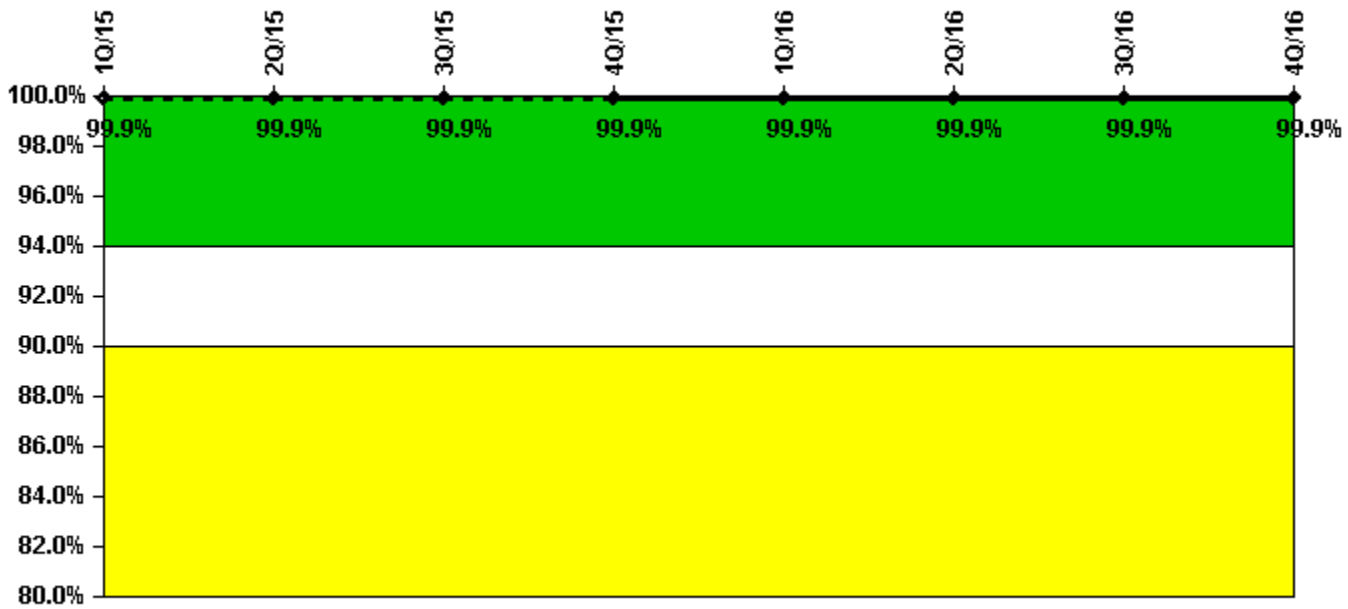
Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Participating Key personnel	94.0	79.0	76.0	76.0	83.0	83.0	79.0	86.0
Total Key personnel	94.0	79.0	76.0	76.0	83.0	83.0	79.0	87.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.9%

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	630	720	719	629	630	629	720	629
Total sirens-tests	630	720	720	630	630	630	720	630
Indicator value	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	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
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	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
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: January 24, 2017