

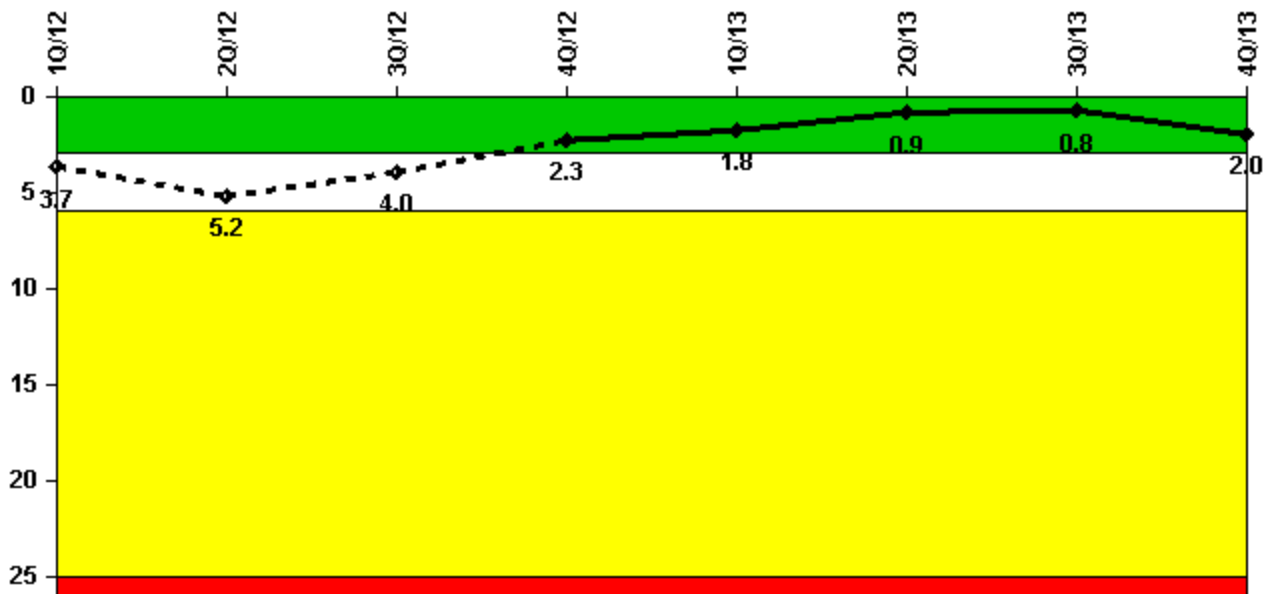
# Saint Lucie 1

## 4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



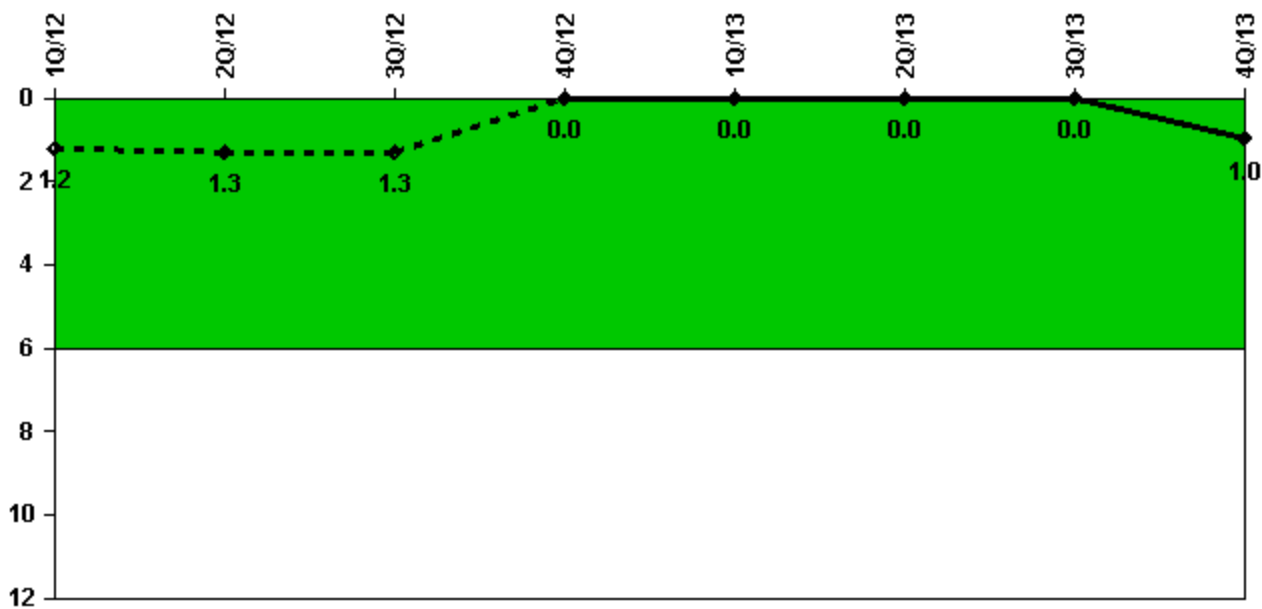
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned scrams	1.0	1.0	0	0	1.0	0	0	1.0
Critical hours	70.9	1845.5	2080.6	2209.0	1698.6	2184.0	2184.0	1103.9
Indicator value	3.7	5.2	4.0	2.3	1.8	0.9	0.8	2.0

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



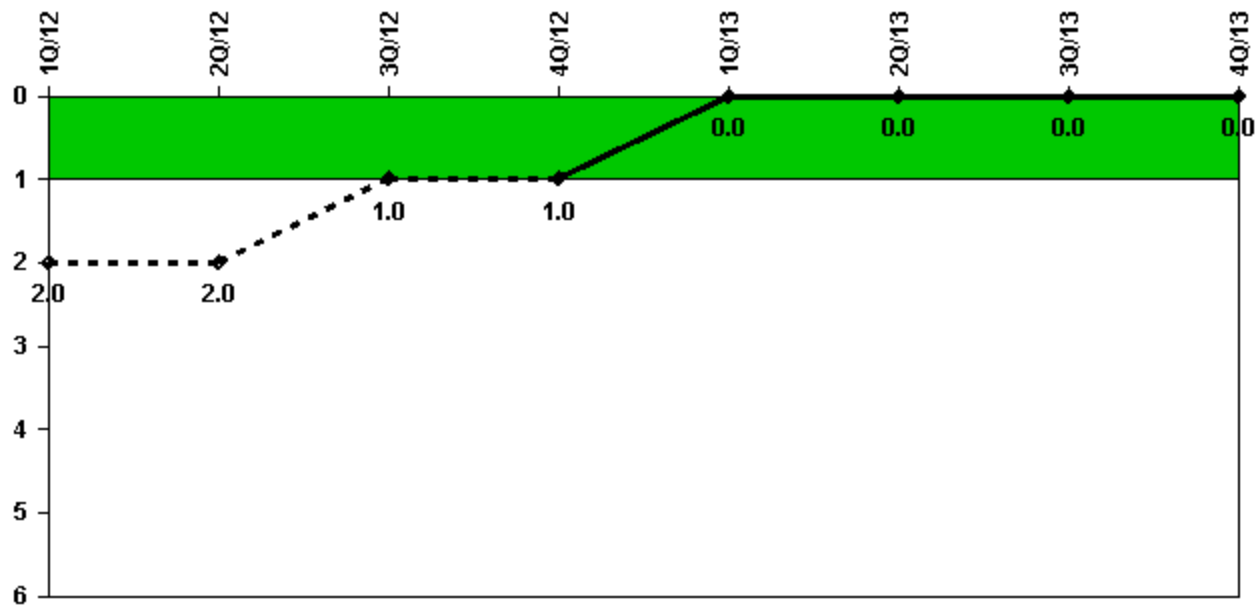
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	70.9	1845.5	2080.6	2209.0	1698.6	2184.0	2184.0	1103.9
<b>Indicator value</b>	<b>1.2</b>	<b>1.3</b>	<b>1.3</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1.0</b>

Licensee Comments: none

### Unplanned Scrams with Complications



Thresholds: White > 1.0

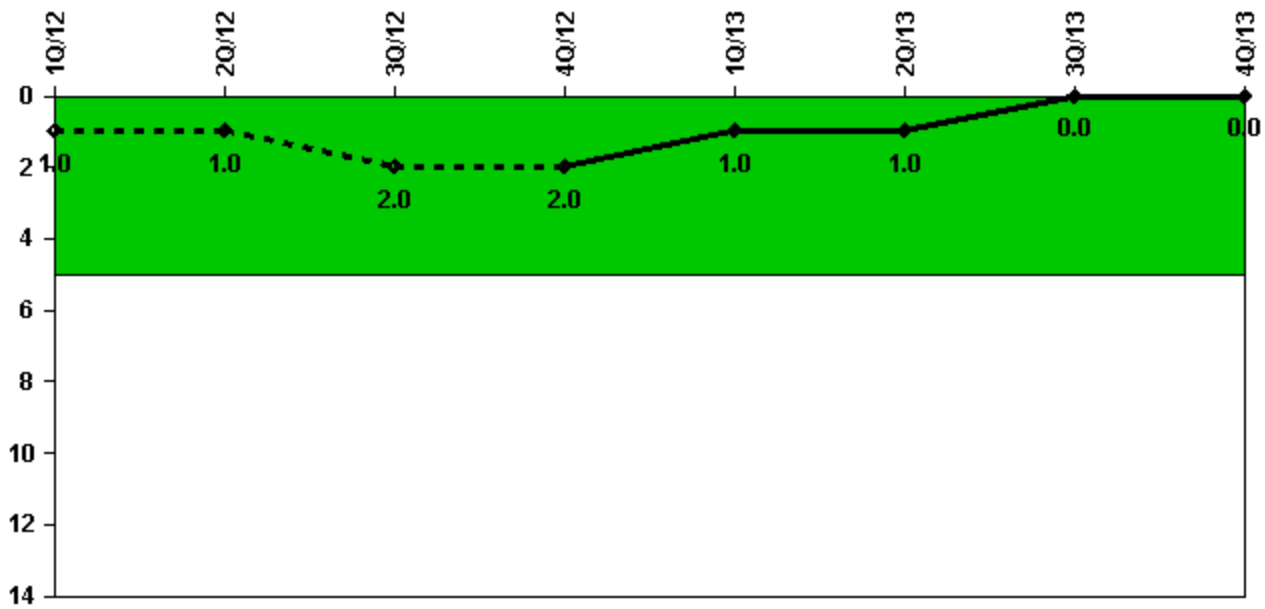
#### Notes

Unplanned Scrams with Complications	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Scrams with complications	1.0	0	0	0	0	0	0	0
Indicator value	2.0	2.0	1.0	1.0	0.0	0.0	0.0	0.0

Licensee Comments:

1Q/12: FPL is submitting a FAQ concerning the March USwC. This data element may be changed based on the outcome of the FAQ.

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

#### Notes

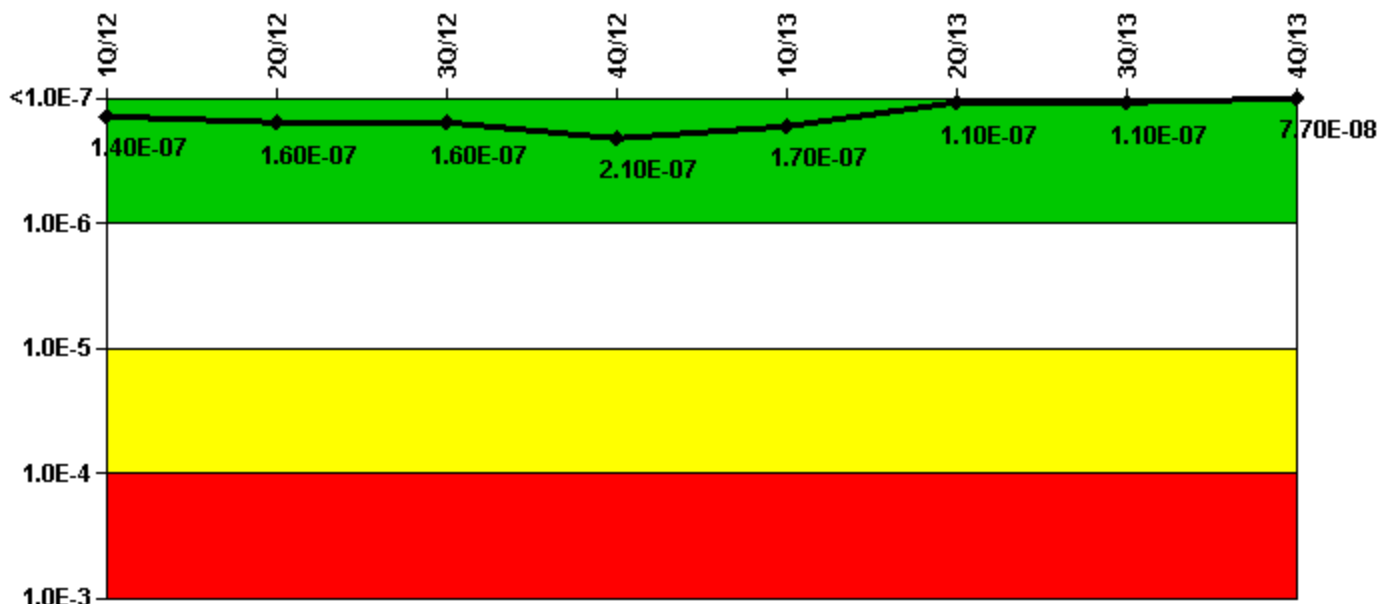
Safety System Functional Failures (PWR)	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Safety System Functional Failures	1	0	1	0	0	0	0	0
<b>Indicator value</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>

Licensee Comments:

3Q/12: August SSFF documented in LER 50-355/2012-007-00

1Q/12: Jan SSFF documented in LER 50-335/2011-003-00

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



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

#### Notes

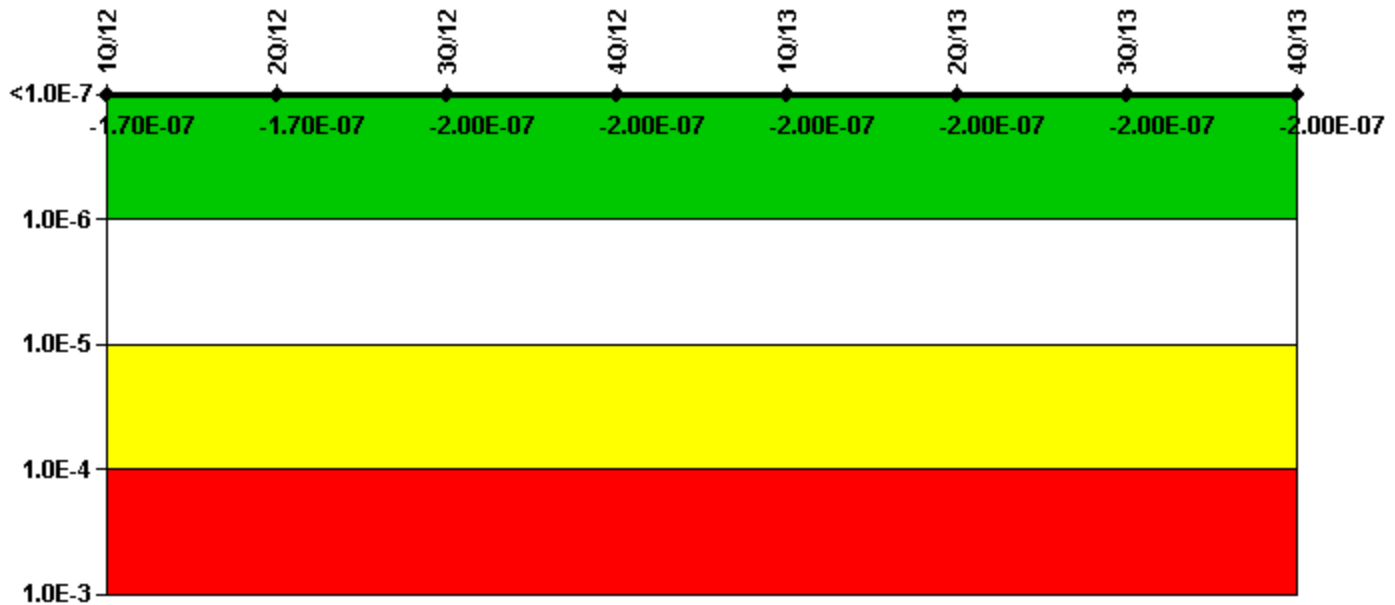
Mitigating Systems Performance Index, Emergency AC Power System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	4.63E-08	5.21E-08	7.22E-08	8.54E-08	8.64E-08	6.20E-08	5.61E-08	2.50E-08
URI (ΔCDF)	9.44E-08	1.12E-07	8.54E-08	1.22E-07	8.62E-08	5.06E-08	5.10E-08	5.15E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.40E-07	1.60E-07	1.60E-07	2.10E-07	1.70E-07	1.10E-07	1.10E-07	7.70E-08

#### Licensee Comments:

4Q/12: October 2012 Failure not originally submitted with 4Q/2012 Data Submittal. The failure record was entered January 2014. Subsequent change files are associated with the new MSPI calculations.

3Q/12: Changed PRA Parameter(s).

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



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

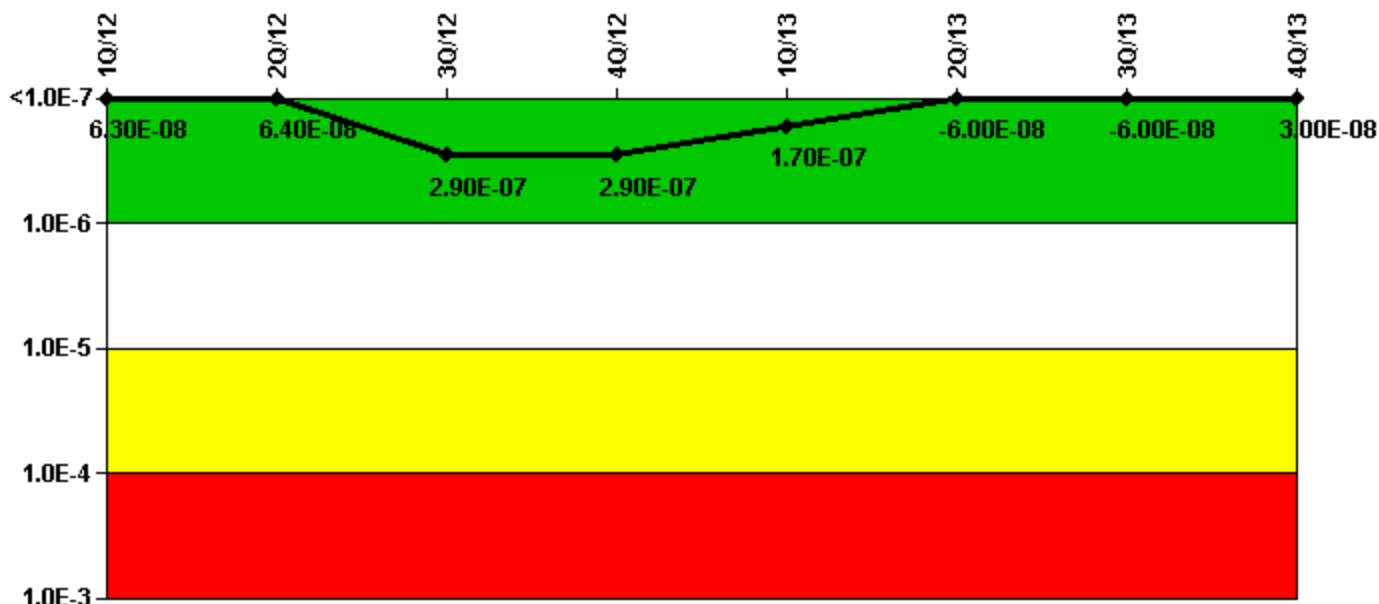
#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI ( $\Delta$ CDF)	-4.62E-08	-4.40E-08	-3.36E-08	-3.36E-08	-3.36E-08	-3.36E-08	-3.36E-08	-3.36E-08
URI ( $\Delta$ CDF)	-1.28E-07	-1.28E-07	-1.63E-07	-1.63E-07	-1.63E-07	-1.63E-07	-1.63E-07	-1.63E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.70E-07	-1.70E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07	-2.00E-07

Licensee Comments:

3Q/12: Changed PRA Parameter(s).

### Mitigating Systems Performance Index, Heat Removal System



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

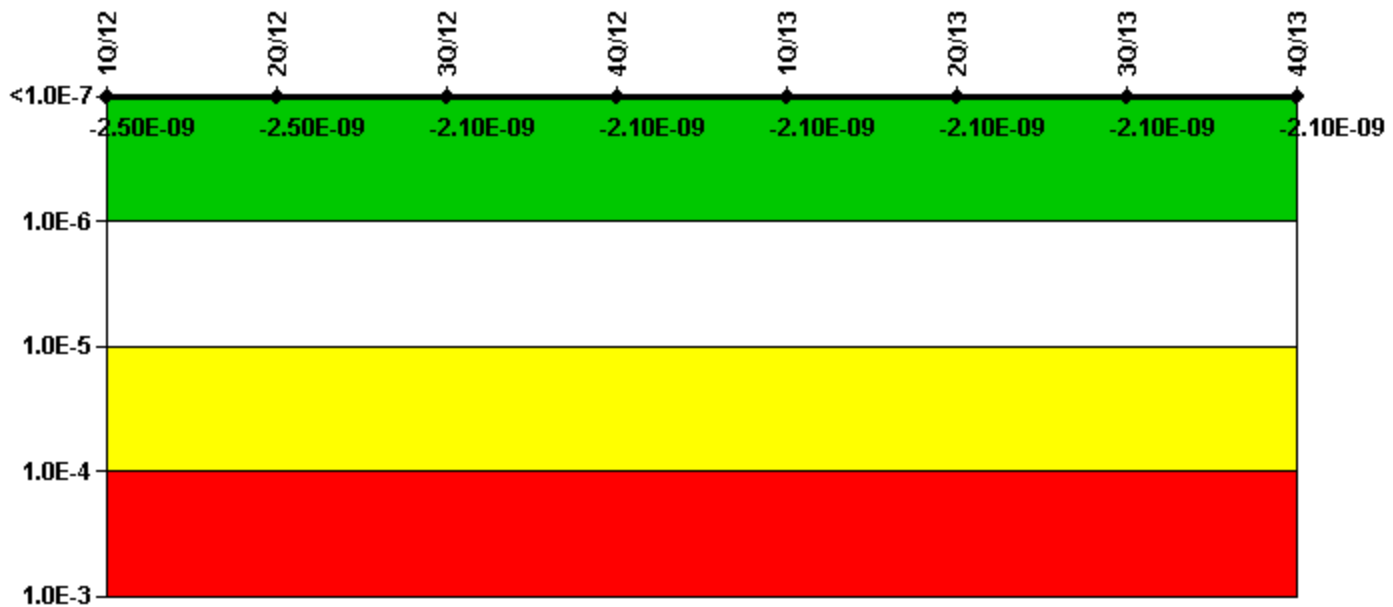
#### Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI (ΔCDF)	9.09E-09	9.31E-09	1.45E-08	1.45E-08	1.15E-08	-1.31E-08	-1.30E-08	-9.39E-09
URI (ΔCDF)	5.42E-08	5.42E-08	2.73E-07	2.73E-07	1.56E-07	-4.67E-08	-4.67E-08	3.92E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.30E-08	6.40E-08	2.90E-07	2.90E-07	1.70E-07	-6.00E-08	-6.00E-08	3.00E-08

Licensee Comments:

3Q/12: Changed PRA Parameter(s). Q3 2012, Unit 1 AFW excluded MV-08-13 and MV-08-14 from scope due to low birnbaum, manual recovery action only. Unit 2 AFW excluded MV-09-13 and MV-09-14 from scope

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



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

#### Notes

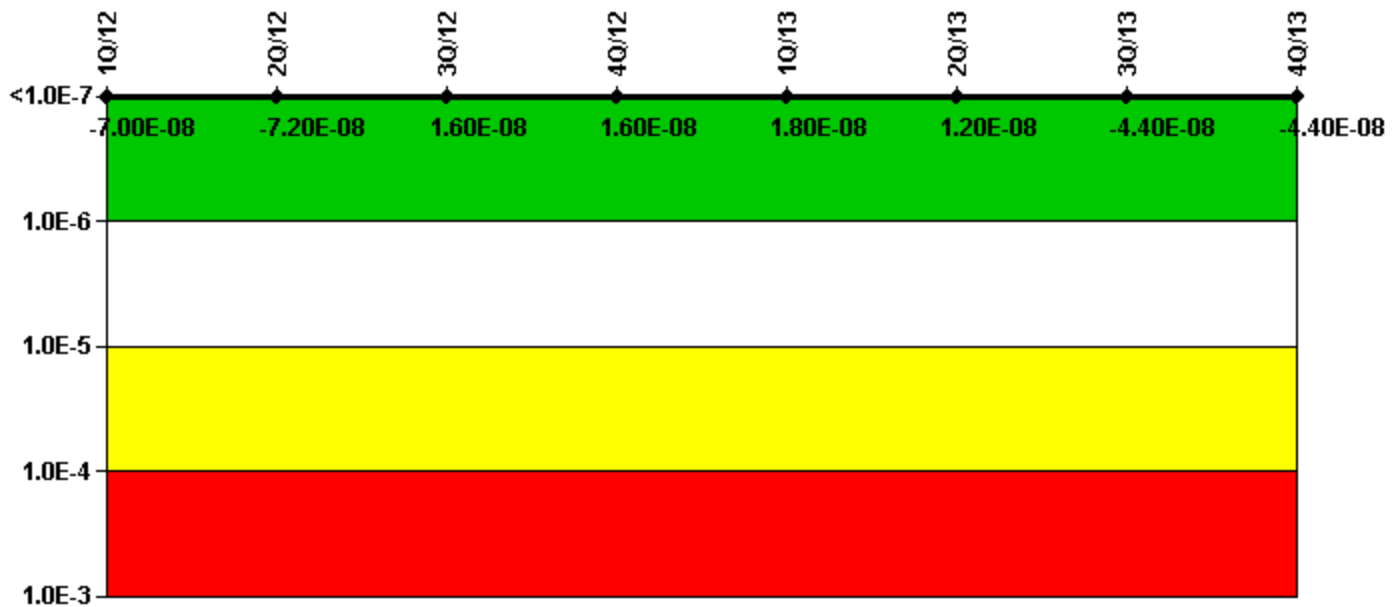
Mitigating Systems Performance Index, Residual Heat Removal System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI ( $\Delta$ CDF)	-2.81E-10	-2.81E-10	-1.41E-10	-1.41E-10	-1.41E-10	-1.41E-10	-1.41E-10	-1.41E-10
URI ( $\Delta$ CDF)	-2.25E-09	-2.25E-09	-1.96E-09	-1.96E-09	-1.96E-09	-1.96E-09	-1.96E-09	-1.96E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-2.50E-09	-2.50E-09	-2.10E-09	-2.10E-09	-2.10E-09	-2.10E-09	-2.10E-09	-2.10E-09

Licensee Comments:

3Q/12: Changed PRA Parameter(s).



### Mitigating Systems Performance Index, Cooling Water Systems



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

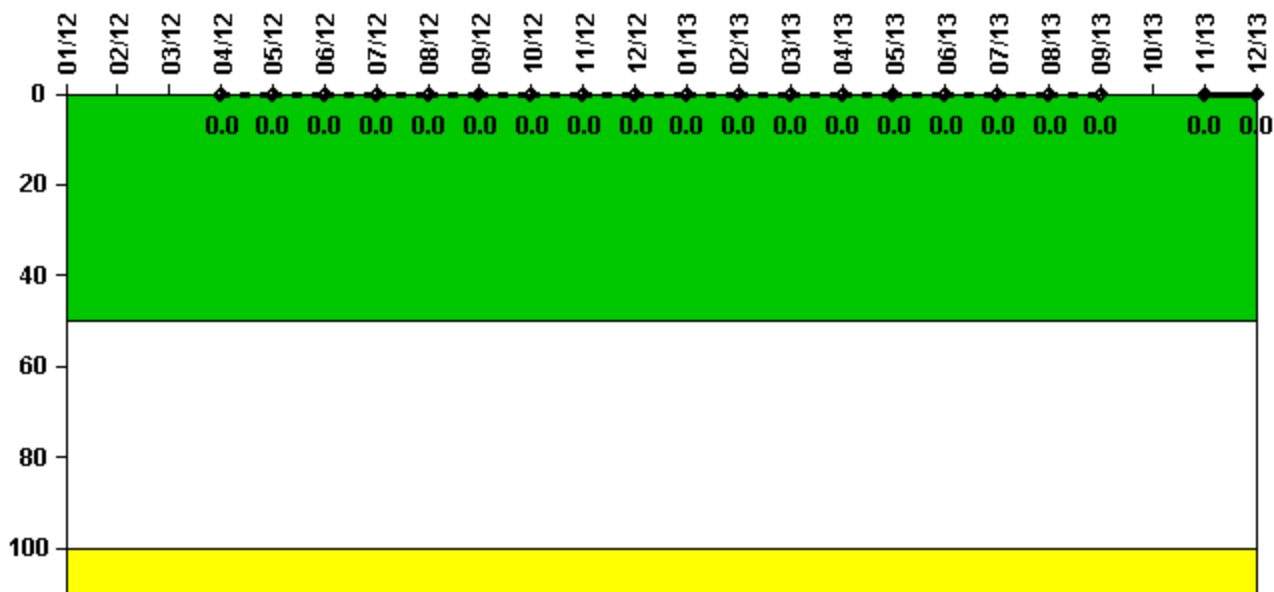
#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
UAI ( $\Delta$ CDF)	-3.42E-08	-3.60E-08	2.84E-08	2.85E-08	2.98E-08	2.40E-08	-3.22E-08	-3.22E-08
URI ( $\Delta$ CDF)	-3.55E-08	-3.55E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.00E-08	-7.20E-08	1.60E-08	1.60E-08	1.80E-08	1.20E-08	-4.40E-08	-4.40E-08

Licensee Comments:

3Q/12: Changed PRA Parameter(s).

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

#### Notes

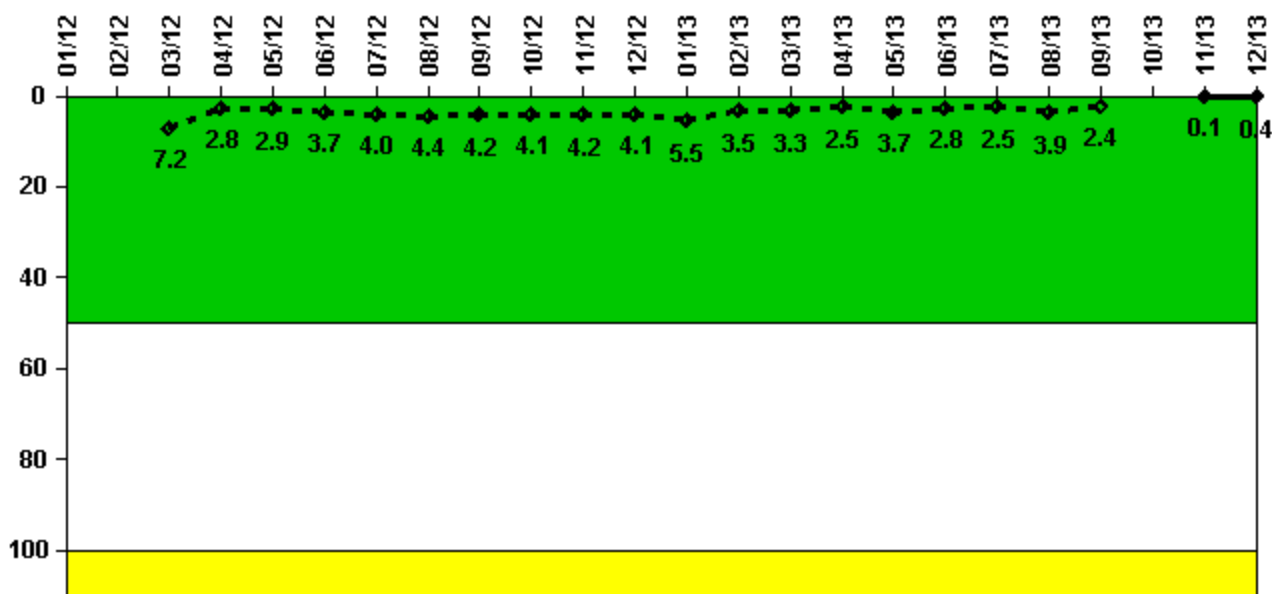
Reactor Coolant System Activity	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum activity	N/A	N/A	N/A	0.000031	0.000115	0.000194	0.000221	0.000293	0.000323	0.000429	0.000299	0.000304
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	N/A	N/A	N/A	0	0	0	0	0	0	0	0	0

Reactor Coolant System Activity	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum activity	0.000329	0.000310	0.000324	0.000329	0.000354	0.000325	0.000340	0.000391	0.000409	N/A	0.000222	0.000221
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	N/A	0	0

Licensee Comments: none

### Reactor Coolant System Leakage



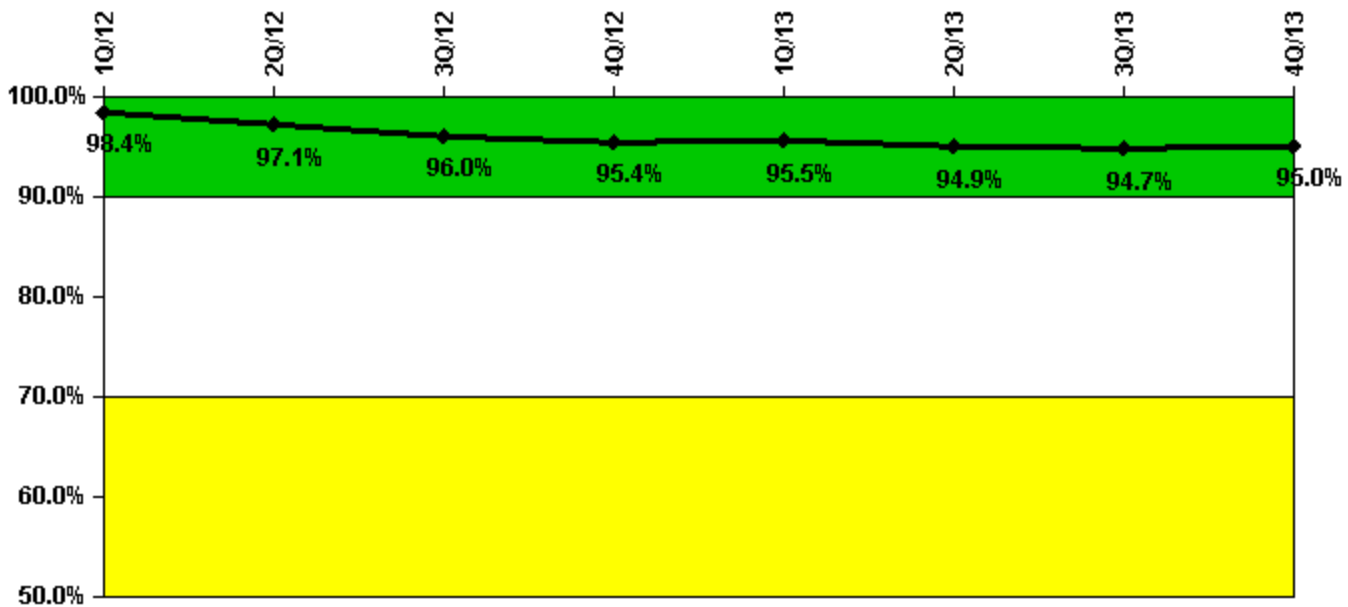
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Leakage	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum leakage	N/A	N/A	0.720	0.275	0.285	0.369	0.398	0.443	0.423	0.410	0.420	0.410
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	N/A	N/A	7.2	2.8	2.9	3.7	4.0	4.4	4.2	4.1	4.2	4.1
Reactor Coolant System Leakage	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13	10/13	11/13	12/13
Maximum leakage	0.551	0.346	0.329	0.249	0.374	0.280	0.249	0.389	0.240	N/A	0.010	0.042
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	5.5	3.5	3.3	2.5	3.7	2.8	2.5	3.9	2.4	N/A	0.1	0.4

Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

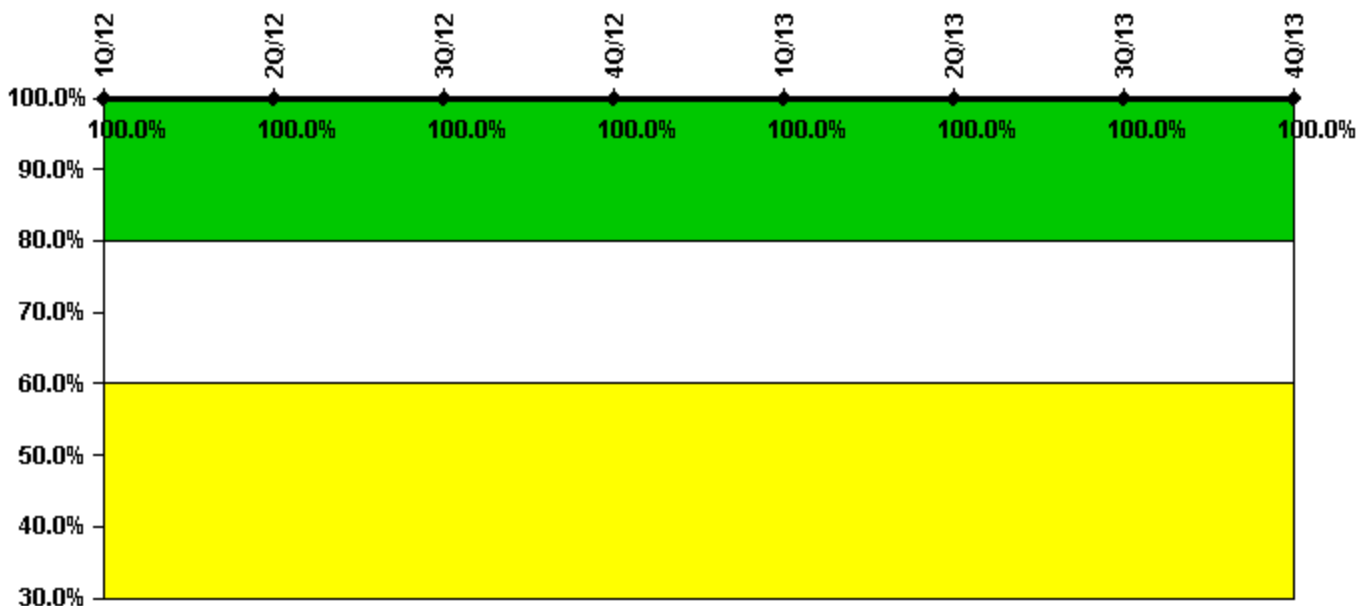
#### Notes

Drill/Exercise Performance	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful opportunities	0	69.0	49.0	0	95.0	56.0	79.0	29.0
Total opportunities	0	75.0	54.0	0	99.0	58.0	81.0	30.0
Indicator value	98.4%	97.1%	96.0%	95.4%	95.5%	94.9%	94.7%	95.0%

Licensee Comments:

2Q/13: Change to June 13 total drill, exercise and event opportunities

### ERO Drill Participation



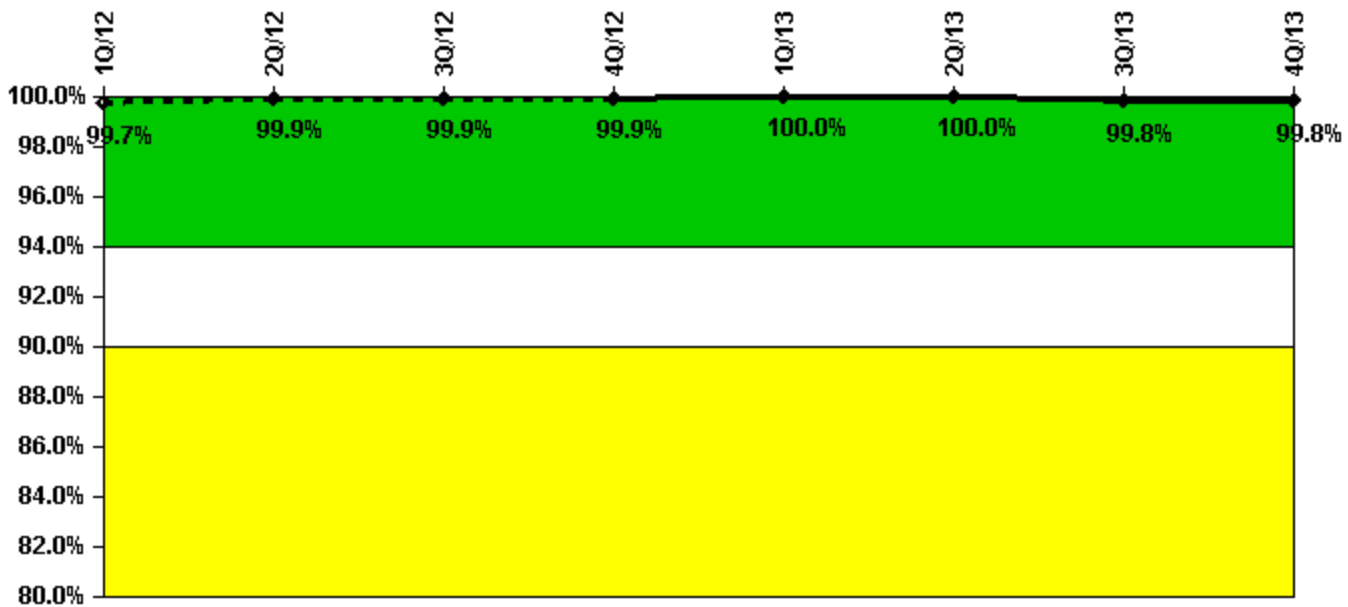
Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Participating Key personnel	93.0	94.0	93.0	93.0	106.0	102.0	109.0	113.0
Total Key personnel	93.0	94.0	93.0	93.0	106.0	102.0	109.0	113.0
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

Licensee Comments: none

### Alert & Notification System



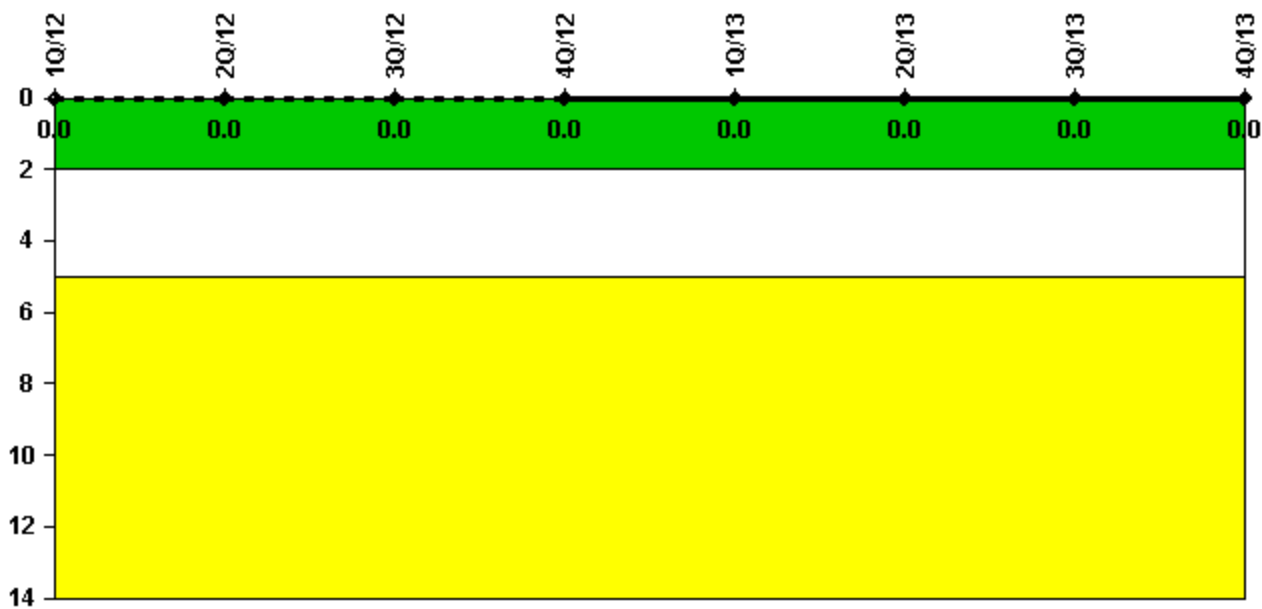
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful siren-tests	628	720	630	720	629	720	626	715
Total sirens-tests	630	720	630	720	630	720	630	715
Indicator value	99.7%	99.9%	99.9%	99.9%	100.0%	100.0%	99.8%	99.8%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



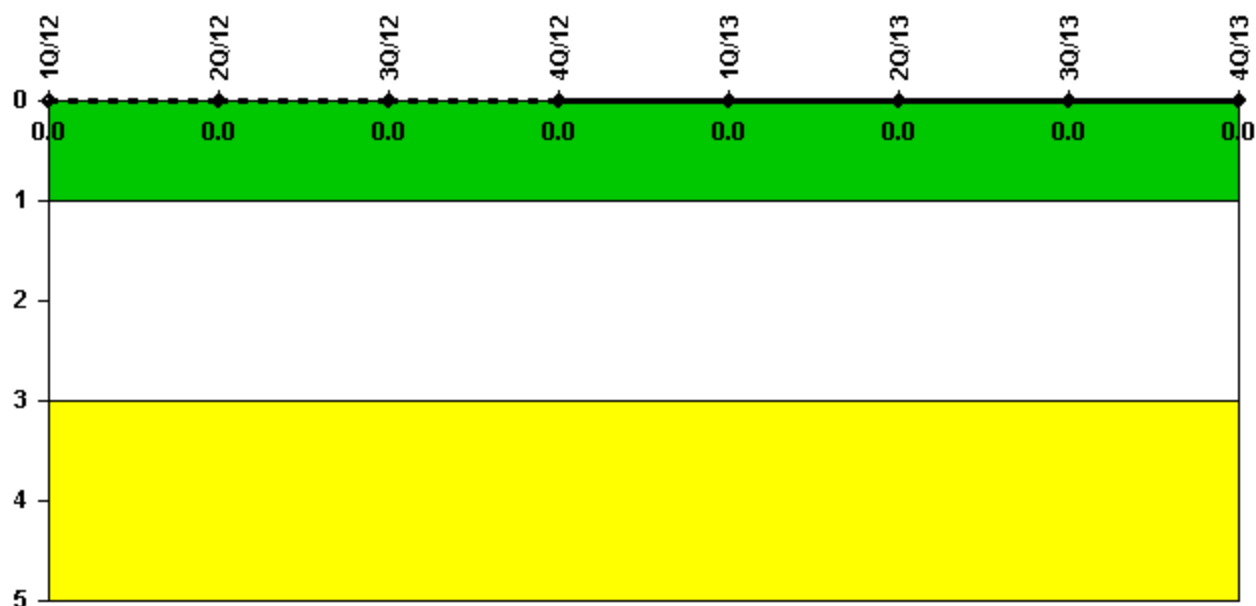
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
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/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
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 22, 2014*