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## La Salle 1 – Quarterly Performance Indicators

### 2Q/2017 Performance Indicators

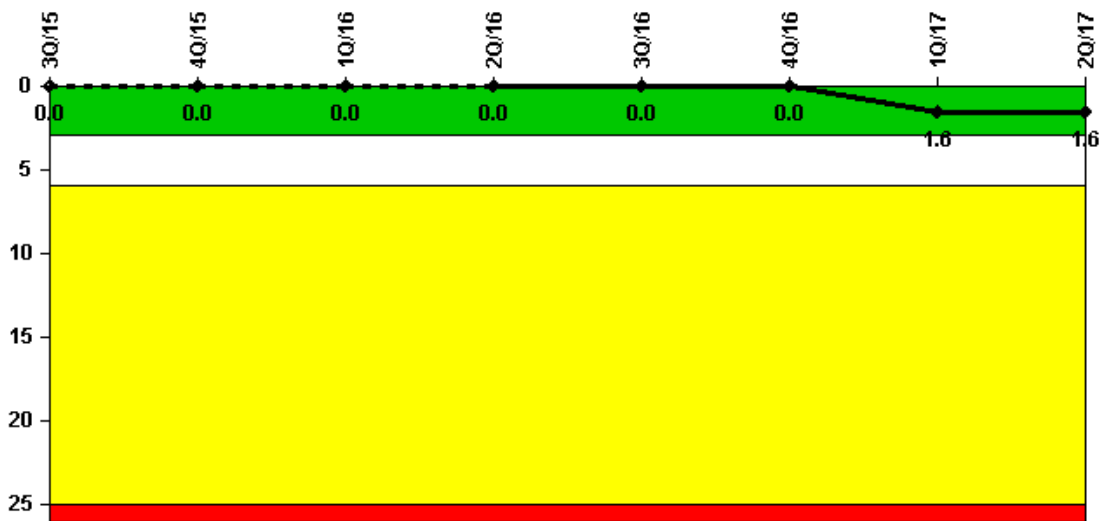
The solid trend line represents the current reporting period.

Licensee's General Comments: none

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- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
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- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
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- Cooling Water Systems (MS10)
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### Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

**Notes**

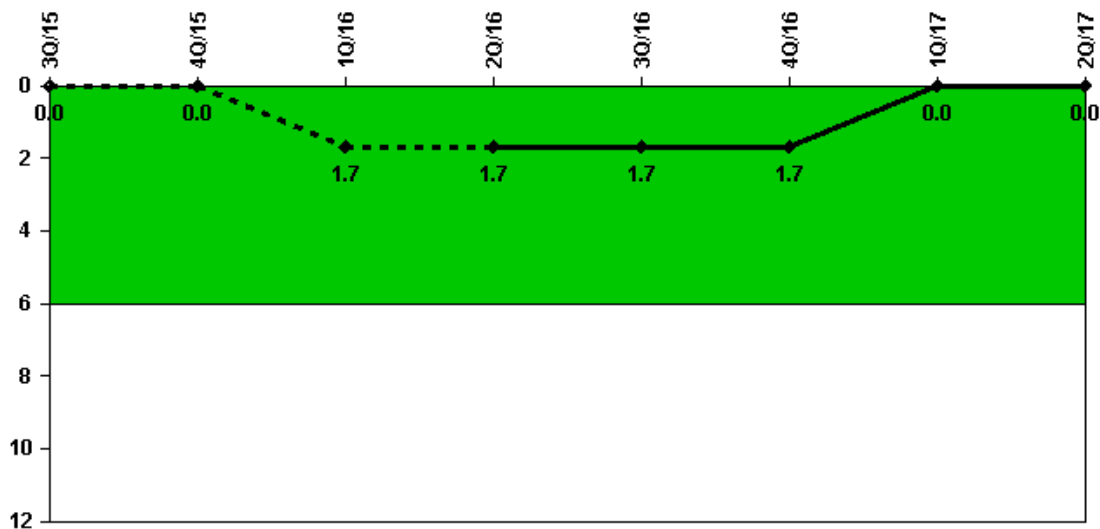
Unplanned Scrams per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned scrams	0	0	0	0	0	0	2.0	0
Critical hours	2208.0	2209.0	1484.7	2184.0	2208.0	2209.0	2084.6	2109.1

Indicator value	0	0	0	0	0	0	1.6	1.6
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Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

**Notes**

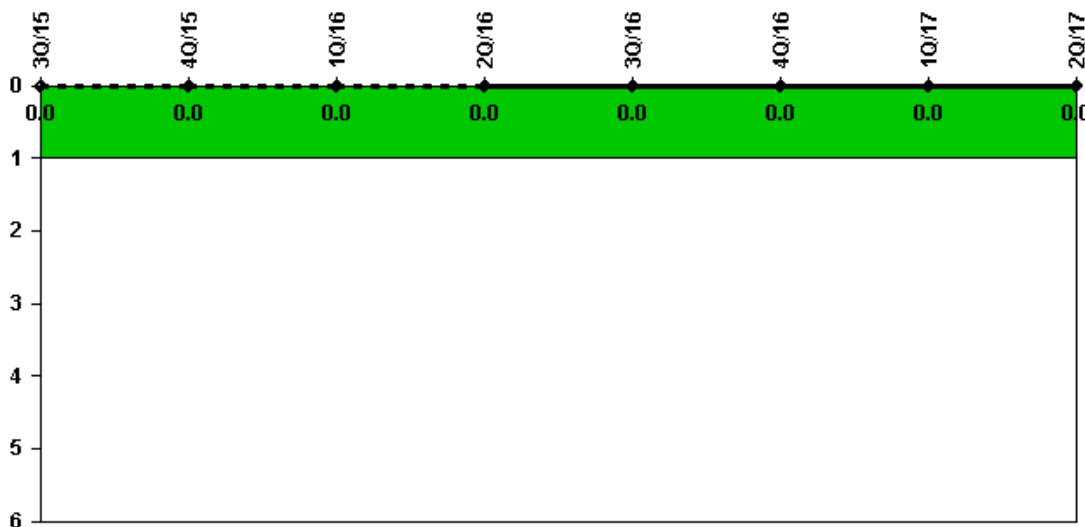
Unplanned Power Changes per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned power changes	0	0	2.0	0	0	0	0	0
Critical hours	2208.0	2209.0	1484.7	2184.0	2208.0	2209.0	2084.6	2109.1
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>1.7</b>	<b>1.7</b>	<b>1.7</b>	<b>1.7</b>	<b>0</b>	<b>0</b>

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Licensee Comments:

1Q/16: Unplanned power changes value for March 2016 has been corrected to reflect L1F42 and L1F43 as unplanned power changes per NEI 99-02. The correction has been documented in the corrective action program and do not result in a change to the performance indicator color for the affected quarters.

**Unplanned Scrams with Complications**



Thresholds: White > 1.0

**Notes**

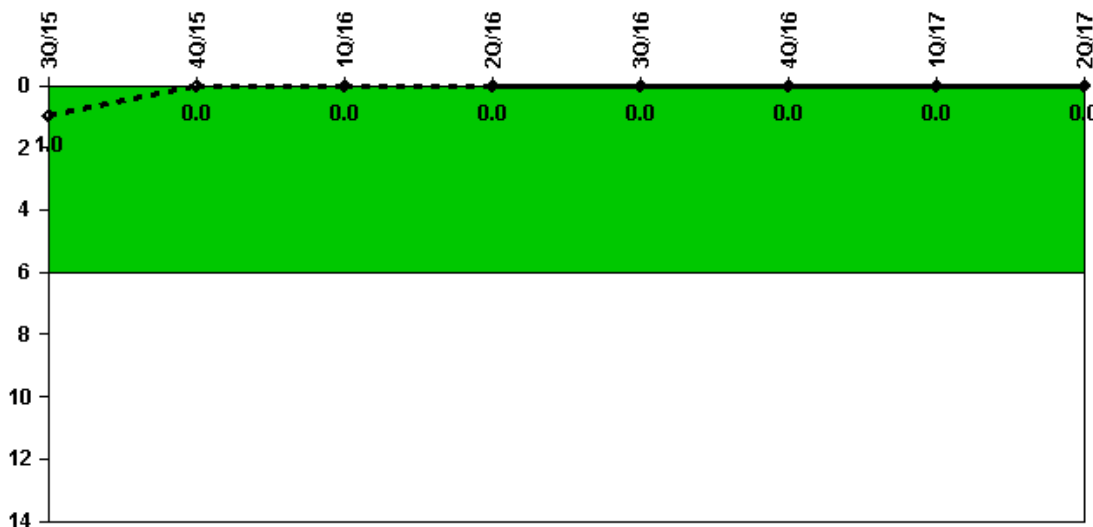
Unplanned Scrams with Complications	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Scrams with complications	0	0	0	0	0	0	0	0

<b>Indicator value</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
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Licensee Comments: none

### Safety System Functional Failures (BWR)



Thresholds: White > 6.0

**Notes**

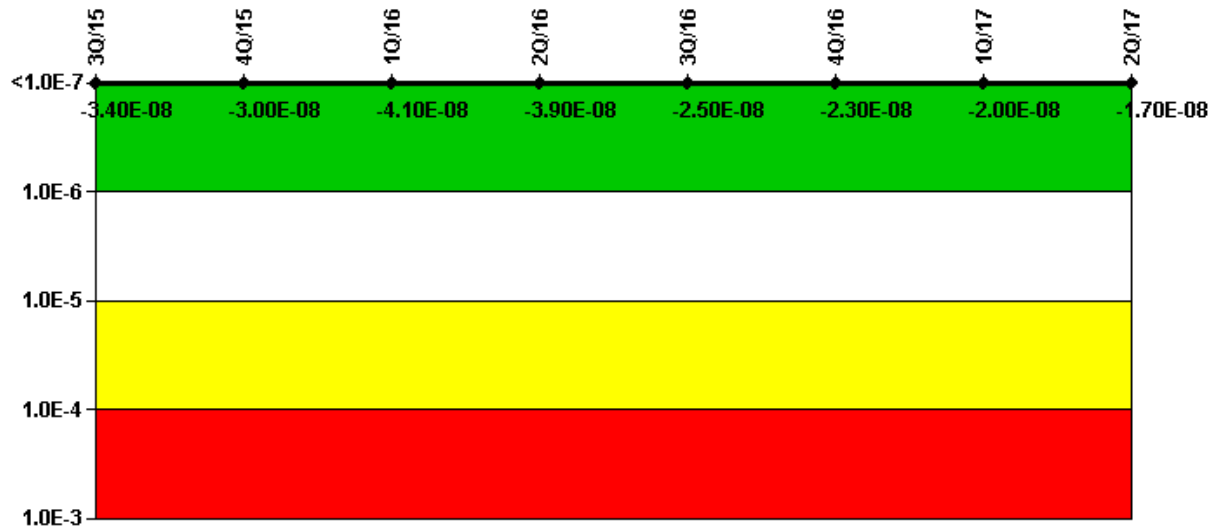
Safety System Functional Failures (BWR) 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17  
 Safety System Functional Failures 0 0 0 0 0 0 0 0

Indicator value 1 0 0 0 0 0 0 0

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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**

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-4.38E-09	3.81E-10	-4.76E-09	-5.16E-09	8.86E-09	1.11E-08	1.39E-08	1.69E-08
URI (ΔCDF)	-2.99E-08	-2.99E-08	-3.60E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08	-3.38E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-3.40E-08</b>	<b>-3.00E-08</b>	<b>-4.10E-08</b>	<b>-3.90E-08</b>	<b>-2.50E-08</b>	<b>-2.30E-08</b>	<b>-2.00E-08</b>	<b>-1.70E-08</b>

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Licensee Comments:

4Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

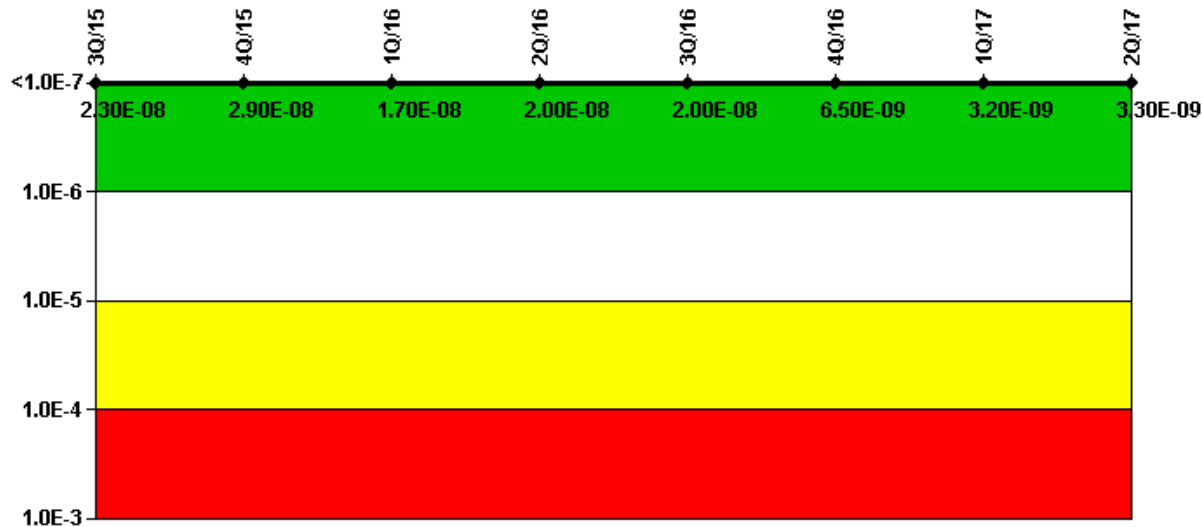
3Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

2Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

1Q/16: Changed PRA Parameter(s). A new PRA model (LS214A) was approved in November 2015 and implemented in the 1st Quarter 2016. PRA coefficients were updated in CDE to reflect the new model. 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

1Q/16: Changed PRA Parameter(s). A new PRA model (LS214A) was approved in November 2015 and implemented in the 1st Quarter 2016. PRA coefficients were updated in CDE to reflect the new model.

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



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

**Notes**

3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
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**Mitigating Systems Performance Index, High Pressure Injection System**

UAI (ΔCDF)	3.58E-08	4.18E-08	2.76E-08	2.99E-08	2.90E-08	1.59E-08	1.26E-08	1.27E-08
URI (ΔCDF)	-1.30E-08	-1.30E-08	-1.01E-08	-9.41E-09	-9.41E-09	-9.41E-09	-9.41E-09	-9.41E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>2.30E-08</b>	<b>2.90E-08</b>	<b>1.70E-08</b>	<b>2.00E-08</b>	<b>2.00E-08</b>	<b>6.50E-09</b>	<b>3.20E-09</b>	<b>3.30E-09</b>

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Licensee Comments:

4Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

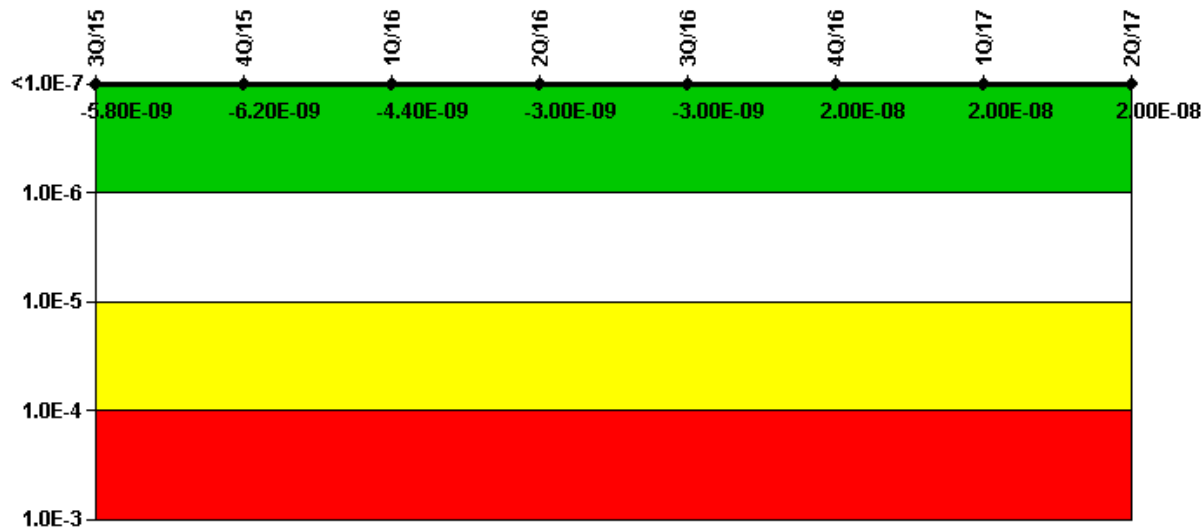
3Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

2Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

1Q/16: Changed PRA Parameter(s). A new PRA model (LS214A) was approved in November 2015 and implemented in the 1st Quarter 2016. PRA coefficients were updated in CDE to reflect the new model. 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

1Q/16: Changed PRA Parameter(s). A new PRA model (LS214A) was approved in November 2015 and implemented in the 1st Quarter 2016. PRA coefficients were updated in CDE to reflect the new 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**

UAI (ΔCDF)	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
	-1.16E-09	-1.52E-09	-9.12E-10	-1.06E-09	-1.06E-09	4.46E-10	4.26E-10	4.31E-10

URI (ΔCDF)	-4.66E-09	-4.66E-09	-3.51E-09	-1.94E-09	-1.94E-09	1.93E-08	1.93E-08	1.93E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-5.80E-09</b>	<b>-6.20E-09</b>	<b>-4.40E-09</b>	<b>-3.00E-09</b>	<b>-3.00E-09</b>	<b>2.00E-08</b>	<b>2.00E-08</b>	<b>2.00E-08</b>

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Licensee Comments:

4Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

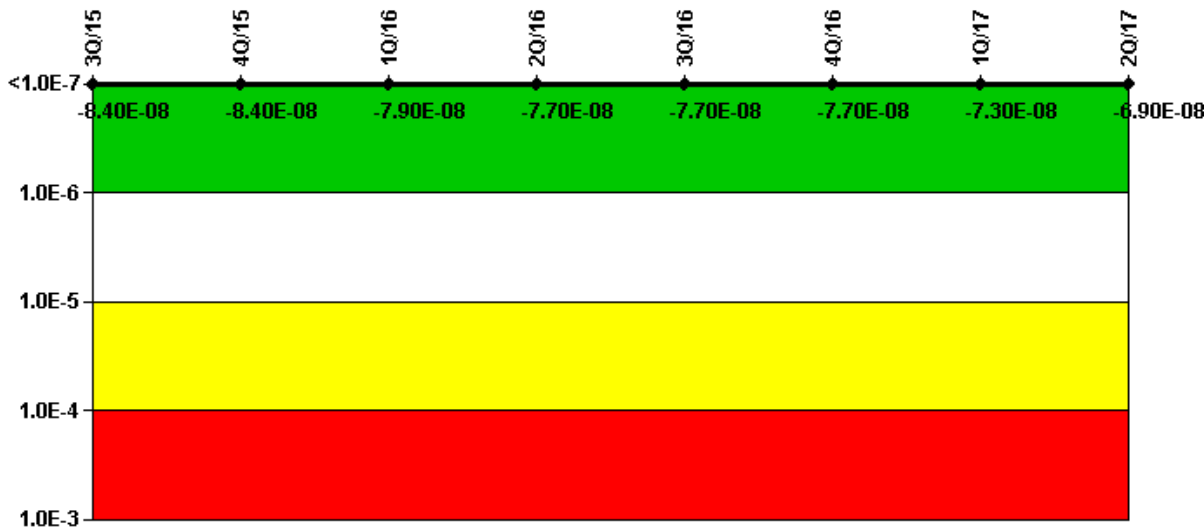
3Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

2Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

1Q/16: Changed PRA Parameter(s). A new PRA model (LS214A) was approved in November 2015 and implemented in 1st Quarter 2016. PRA coefficients were updated in CDE to reflect the new model. 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

1Q/16: Changed PRA Parameter(s). A new PRA model (LS214A) was approved in November 2015 and implemented in 1st Quarter 2016. PRA coefficients were updated in CDE to reflect the new 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**

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-3.50E-08	-3.50E-08	-3.37E-08	-3.41E-08	-3.41E-08	-3.41E-08	-3.01E-08	-2.59E-08
URI (ΔCDF)	-4.94E-08	-4.94E-08	-4.52E-08	-4.26E-08	-4.26E-08	-4.26E-08	-4.26E-08	-4.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO

<b>Indicator value</b>	<b>-8.40E-08</b>	<b>-8.40E-08</b>	<b>-7.90E-08</b>	<b>-7.70E-08</b>	<b>-7.70E-08</b>	<b>-7.70E-08</b>	<b>-7.30E-08</b>	<b>-6.90E-08</b>
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**Licensee Comments:**

4Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

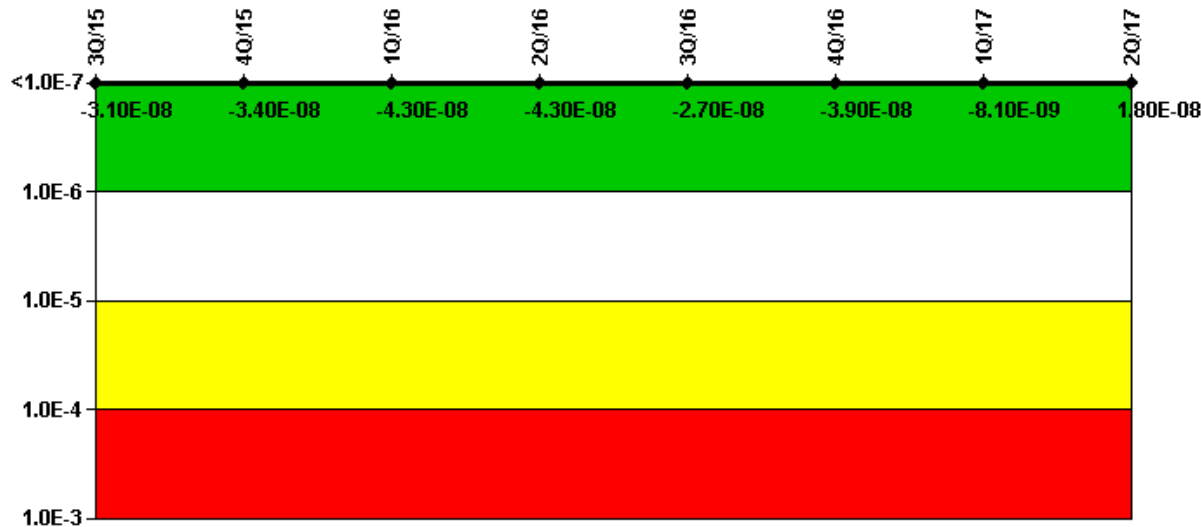
3Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

2Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

1Q/16: Changed PRA Parameter(s). A new PRA model (LS214A) was approved in November 2015 and implemented in 1st Quarter 2016. PRA coefficients were updated in CDE to reflect the new model. 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

1Q/16: Changed PRA Parameter(s). A new PRA model (LS214A) was approved in November 2015 and implemented in 1st Quarter 2016. PRA coefficients were updated in CDE to reflect the new 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**

	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	3.22E-08	2.95E-08	8.07E-09	7.71E-09	2.31E-08	1.14E-08	4.24E-08	6.87E-08
URI (ΔCDF)	-6.33E-08	-6.33E-08	-5.09E-08	-5.05E-08	-5.05E-08	-5.05E-08	-5.05E-08	-5.05E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-3.10E-08</b>	<b>-3.40E-08</b>	<b>-4.30E-08</b>	<b>-4.30E-08</b>	<b>-2.70E-08</b>	<b>-3.90E-08</b>	<b>-8.10E-09</b>	<b>1.80E-08</b>





Licensee Comments:

4Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

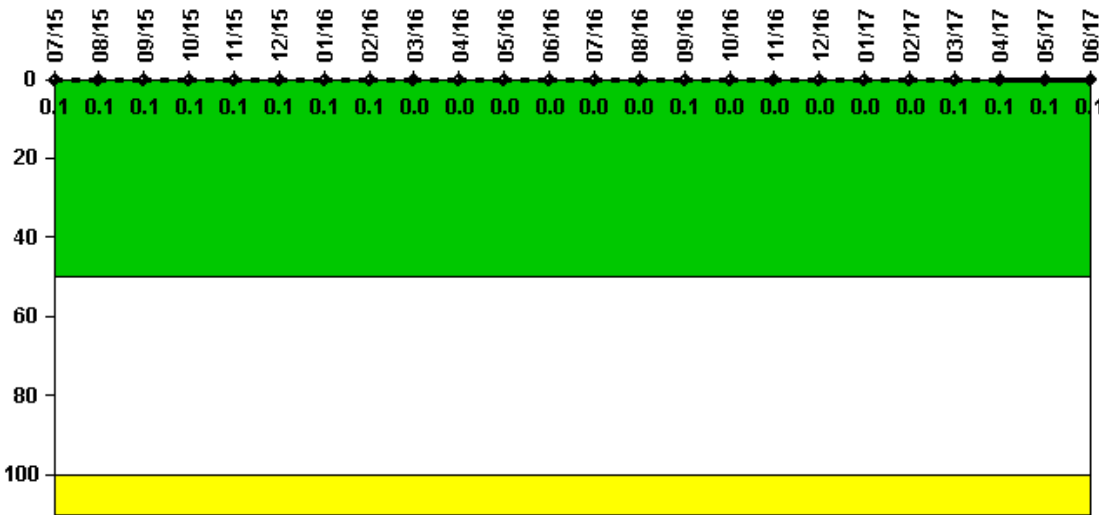
3Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

2Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

1Q/16: Changed PRA Parameter(s). A new PRA model (LS214A) was approved in November 2015 and implemented for 1st Quarter 2016. PRA coefficients were updated in CDE to reflect the new model. 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

1Q/16: Changed PRA Parameter(s). A new PRA model (LS214A) was approved in November 2015 and implemented for 1st Quarter 2016. PRA coefficients were updated in CDE to reflect the new model.

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

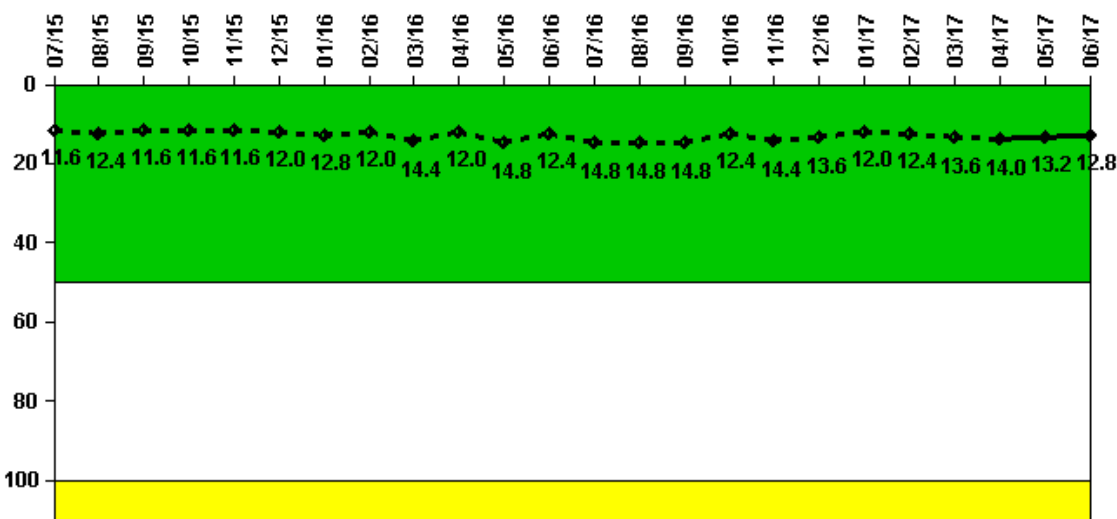
Reactor Coolant System Activity	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum activity	0.000152	0.000187	0.000160	0.000135	0.000130	0.000133	0.000115	0.000110	0.000048	0.000053	0.000049	0.000054
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Indicator value	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0
	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17

<b>Reactor Coolant System Activity</b>												
Maximum activity	0.000092	0.000070	0.000107	0.000079	0.000075	0.000078	0.000081	0.000097	0.000109	0.000127	0.000115	0.000138
Technical specification limit	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0.1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>

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Licensee Comments: none

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

### Notes

<b>Reactor Coolant System Leakage</b>	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum leakage	2.900	3.100	2.900	2.900	2.900	3.000	3.200	3.000	3.600	3.000	3.700	3.100
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0

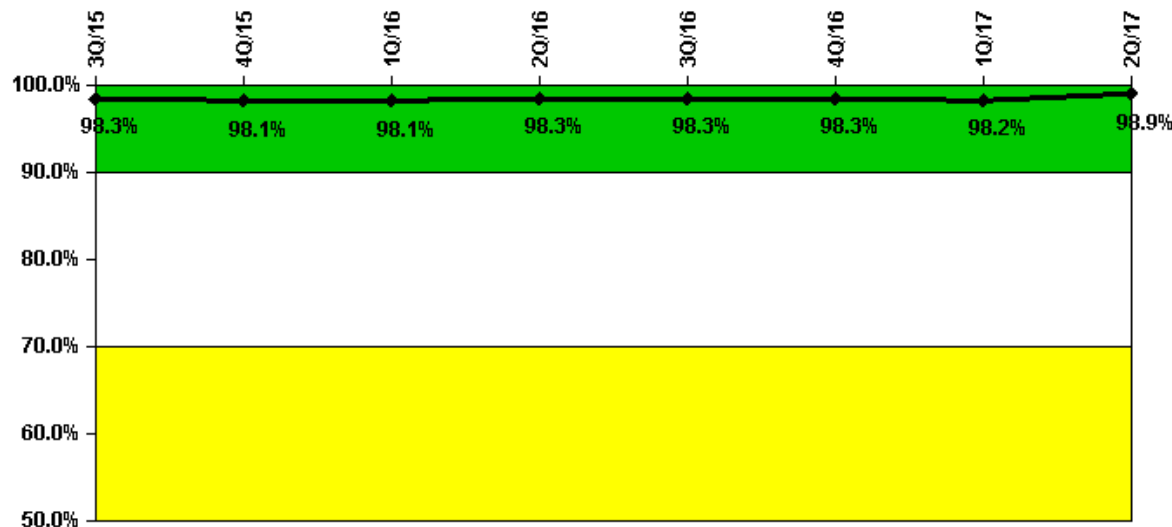
<b>Indicator value</b>	11.6	12.4	11.6	11.6	11.6	12.0	12.8	12.0	14.4	12.0	14.8	12.4
<b>Reactor Coolant System Leakage</b>	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17
Maximum leakage	3.700	3.700	3.700	3.100	3.600	3.400	3.000	3.100	3.400	3.500	3.300	3.200
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0

<b>Indicator value</b>	14.8	14.8	14.8	12.4	14.4	13.6	12.0	12.4	13.6	14.0	13.2	12.8
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Licensee Comments: none

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful opportunities	62.0	63.0	13.0	141.0	98.0	36.0	24.0	100.0
Total opportunities	62.0	64.0	13.0	142.0	101.0	36.0	24.0	101.0

**Indicator value**                    **98.3% 98.1% 98.1% 98.3% 98.3% 98.3% 98.2% 98.9%**

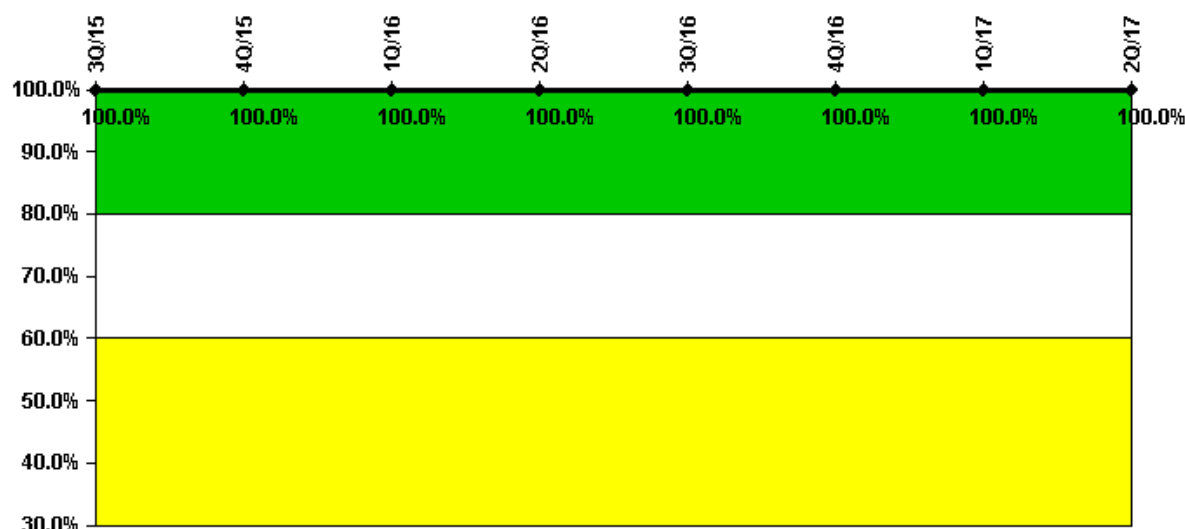
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Licensee Comments:

1Q/16: During an internal assessment, it was discovered that credit taken in June 2015 did not include opportunities that should have been counted. This was corrected by increasing the number of successful drill, exercise & event opportunities from 32 to 35, and increasing the number of total drill, exercise & event opportunities from 32 to 36. This issue has been entered into the corrective action program and does not result in a change to the performance indicator color.

4Q/15: During an internal assessment, it was discovered that credit was taken in April 2015 for an opportunity that should not have been counted. This was corrected by decreasing the number of total drill, exercise and event opportunities from 51 to 50 for April 2015. This issue, which did not result in a change to performance indicator color, has been entered into the corrective action program.

### ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

#### Notes

ERO Drill Participation	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Participating Key personnel	68.0	67.0	67.0	63.0	62.0	62.0	63.0	65.0
Total Key personnel	68.0	67.0	67.0	63.0	62.0	62.0	63.0	65.0

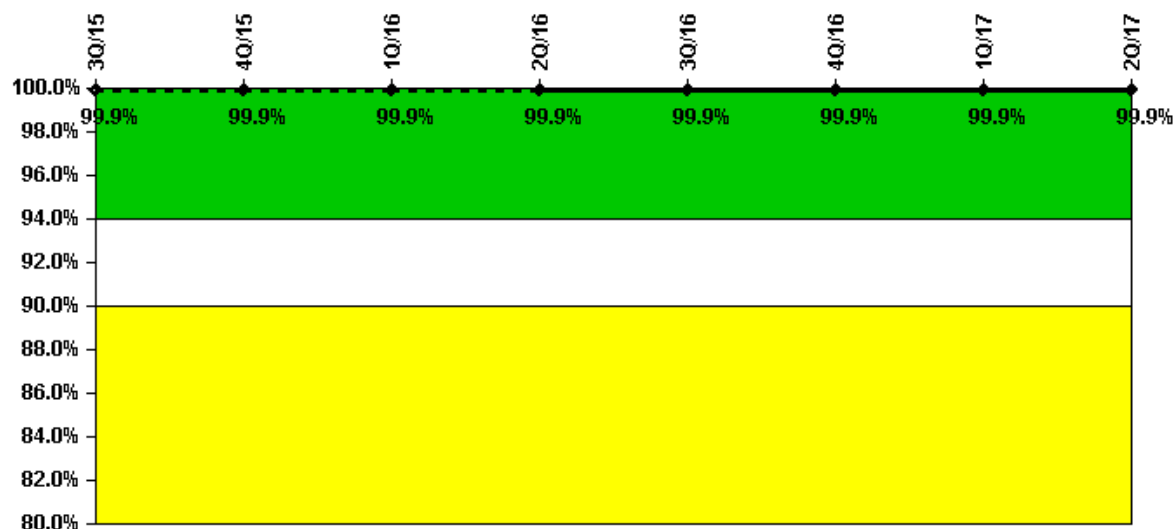
**Indicator value**                    **100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%**

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#### Licensee Comments:

1Q/16: During an internal assessment, it was discovered that credit taken in February and March 2016 did not include participations that should have been counted. This was corrected by increasing the number of participating key personnel and total key personnel by two for February and March 2016. This issue has been entered into the corrective action program and does not result in a change to the performance indicator color.

### Alert & Notification System



Thresholds: White < 94.0% Yellow < 90.0%

**Notes**

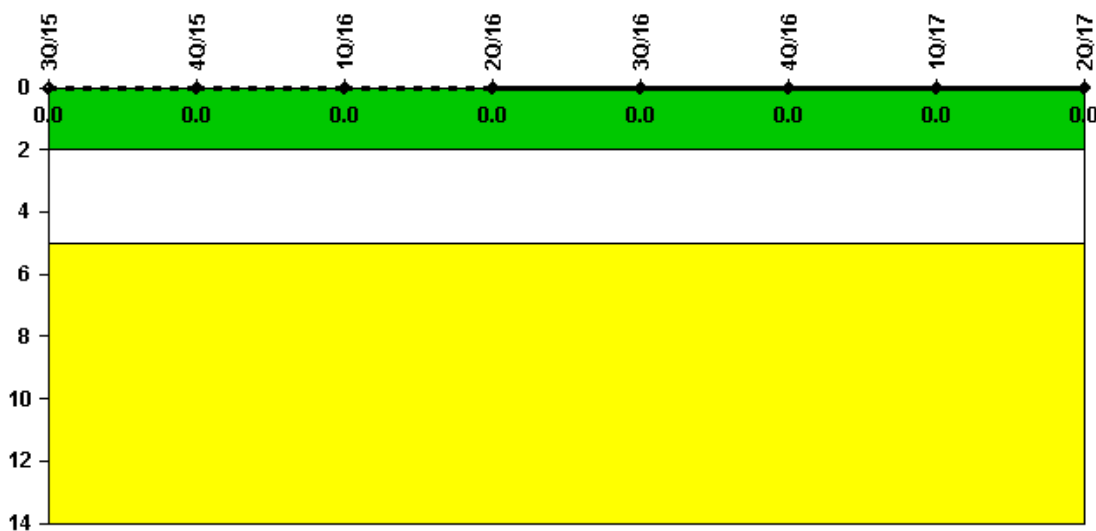
Alert & Notification System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Successful siren-tests	2208	2175	2175	2174	2170	2106	2210	2173
Total sirens-tests	2210	2176	2176	2176	2176	2108	2210	2176

**Indicator value**                    99.9% 99.9% 99.9% 99.9% 99.9% 99.9% 99.9% 99.9%

▲ TOP

Licensee Comments: none

### Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

**Notes**

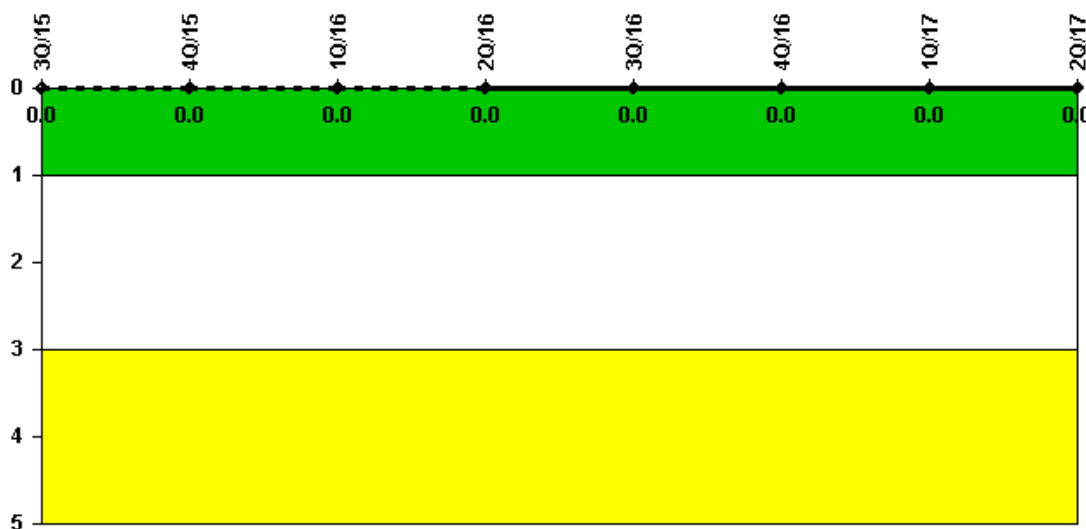
**Occupational Exposure Control Effectiveness** 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17

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>

TOP

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

**Notes**

**RETS/ODCM Radiological Effluent** 3Q/15 4Q/15 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17

RETS/ODCM occurrences                    0   0   0   0   0   0   0   0

**Indicator value**                            0   0   0   0   0   0   0   0

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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.

Current data as of: July 26, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017