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La Salle 2 – Quarterly Performance Indicators

4Q/2017 Performance Indicators

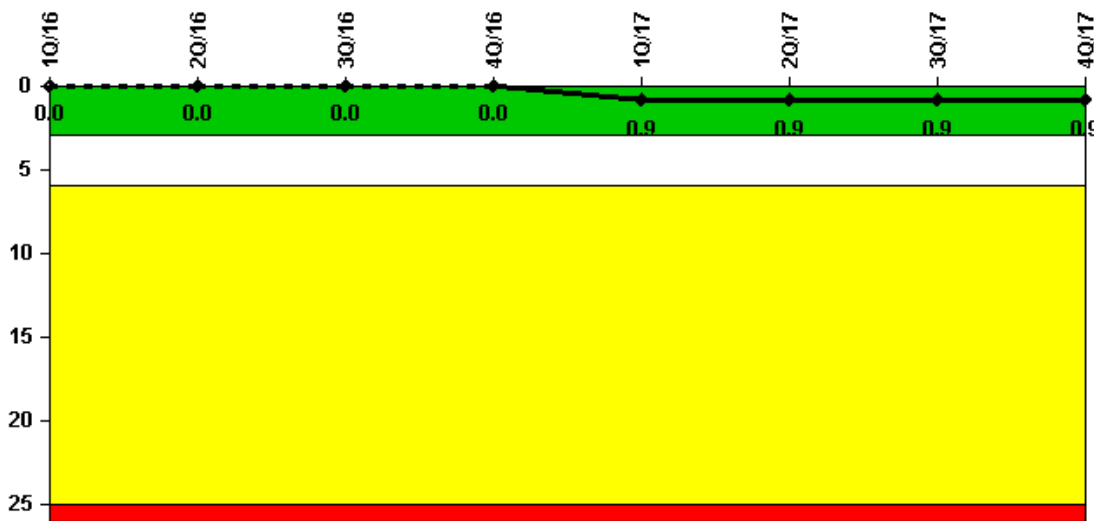
The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
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- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
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- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs



Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

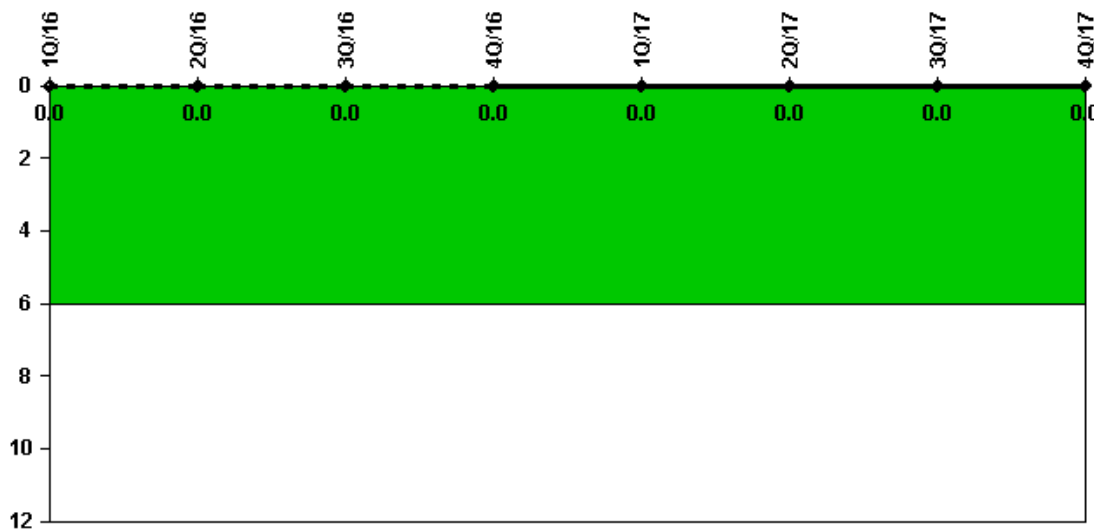
Unplanned Scrams per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2209.0	1380.6	2141.0	2208.0	2209.0

Indicator value	0	0	0	0	0.9	0.9	0.9	0.9
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Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



Thresholds: White > 6.0

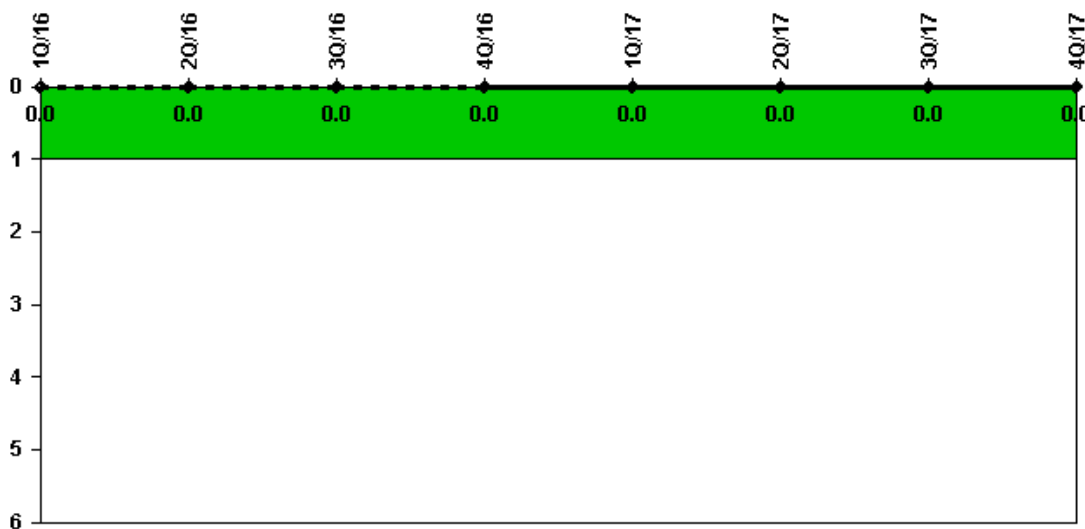
Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2209.0	1380.6	2141.0	2208.0	2209.0
Indicator value	0	0	0	0	0	0	0	0

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Licensee Comments: none

Unplanned Scrams with Complications



Thresholds: White > 1.0

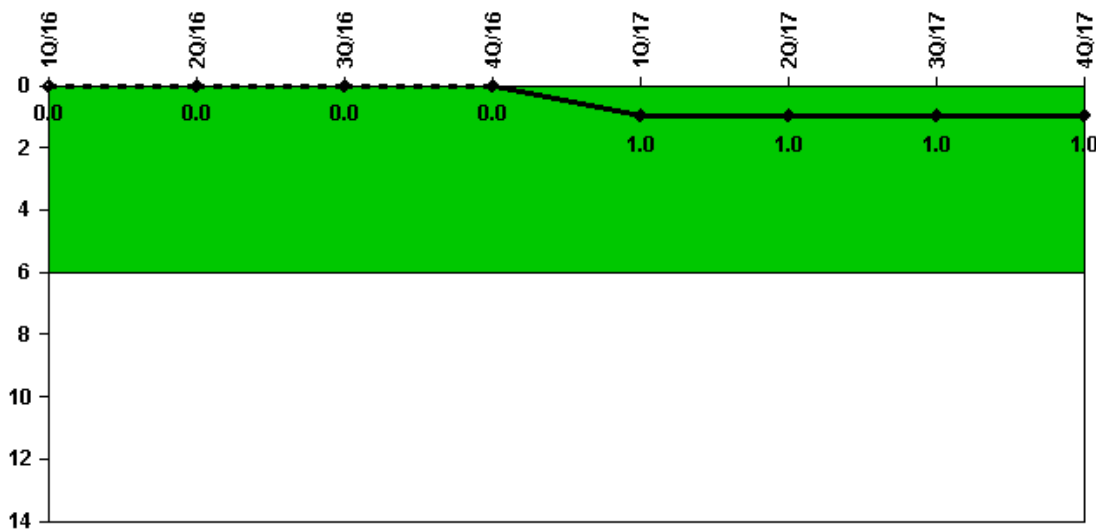
Notes

Unplanned Scrams with Complications	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Licensee Comments: none

Safety System Functional Failures (BWR)



Thresholds: White > 6.0

Notes

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

Safety System Functional Failures 0 0 0 0 1 0 0 0

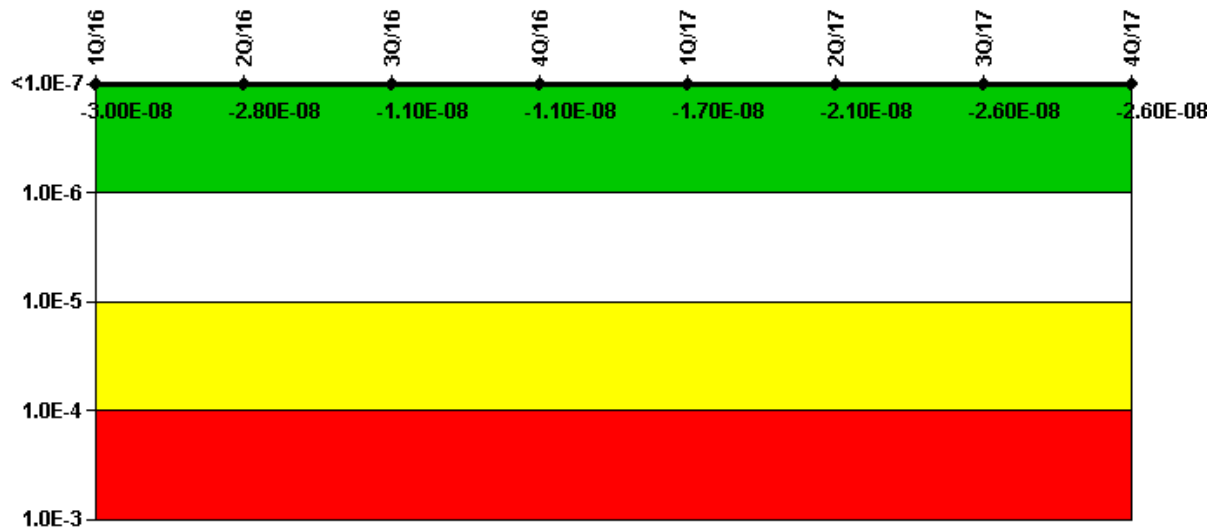
Indicator value 0 0 0 0 1 1 1 1

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Licensee Comments:

1Q/17: LER 374-2017-002

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/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (Δ CDF)	6.91E-09	6.39E-09	2.35E-08	2.35E-08	1.68E-08	1.91E-08	1.41E-08	1.46E-08
URI (Δ CDF)	-3.66E-08	-3.41E-08	-3.41E-08	-3.41E-08	-3.41E-08	-4.03E-08	-4.03E-08	-4.03E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.00E-08	-2.80E-08	-1.10E-08	-1.10E-08	-1.70E-08	-2.10E-08	-2.60E-08	-2.60E-08

TOP

Licensee Comments:

3Q/17: Changed PRA Parameter(s).

2Q/17: Changed PRA Parameter(s). A new PRA model (LS2016C) specific for Unit 2 was approved in July 2017 and implemented in 2nd Quarter 2017. PRA coefficients and estimated demand changes from implementation of the surveillance frequency control program were updated in CDE to reflect the new model.

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.

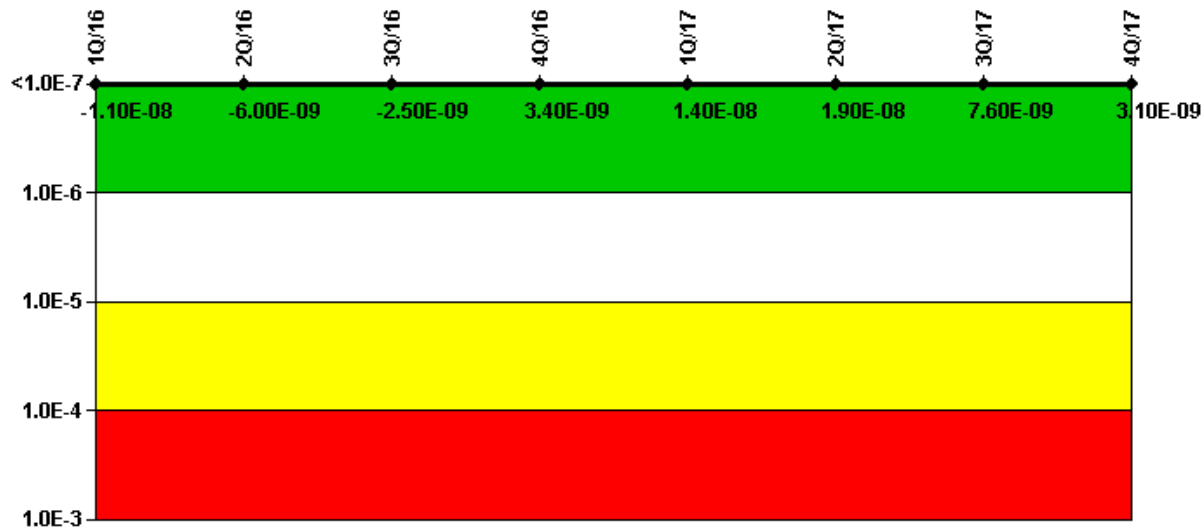
3Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

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, 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/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-4.92E-10	2.90E-09	6.39E-09	1.22E-08	1.74E-08	2.37E-08	1.22E-08	7.65E-09
URI (ΔCDF)	-1.02E-08	-8.87E-09	-8.87E-09	-8.87E-09	-3.05E-09	-4.54E-09	-4.54E-09	-4.54E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-1.10E-08	-6.00E-09	-2.50E-09	3.40E-09	1.40E-08	1.90E-08	7.60E-09	3.10E-09

TOP

Licensee Comments:

3Q/17: Changed PRA Parameter(s).

2Q/17: Changed PRA Parameter(s). A new PRA model (LS2016C) specific for Unit 2 was approved in July 2017 and implemented in 2nd Quarter 2017. PRA coefficients and estimated demand changes from implementation of the surveillance frequency control program were updated in CDE to reflect the new model.

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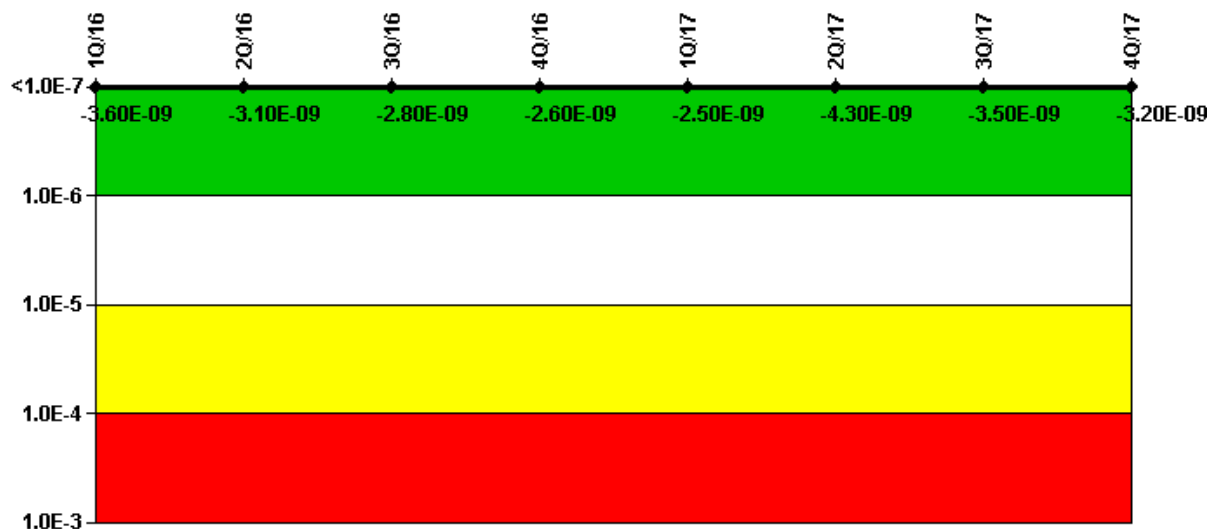
3Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

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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.

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/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-7.03E-10	-5.22E-10	-2.36E-10	-6.50E-10	7.27E-11	-9.42E-10	-9.71E-10	-6.59E-10
URI (ΔCDF)	09	09	09	09	09	09	09	09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.60E-09	-3.10E-09	-2.80E-09	-2.60E-09	-2.50E-09	-4.30E-09	-3.50E-09	-3.20E-09

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Licensee Comments:

3Q/17: Changed PRA Parameter(s).

2Q/17: Changed PRA Parameter(s). A new PRA model (LS2016C) specific for Unit 2 was approved in July 2017 and implemented in 2nd Quarter 2017. PRA coefficients and estimated demand changes from implementation of the surveillance frequency control program were updated in CDE to reflect the new model.

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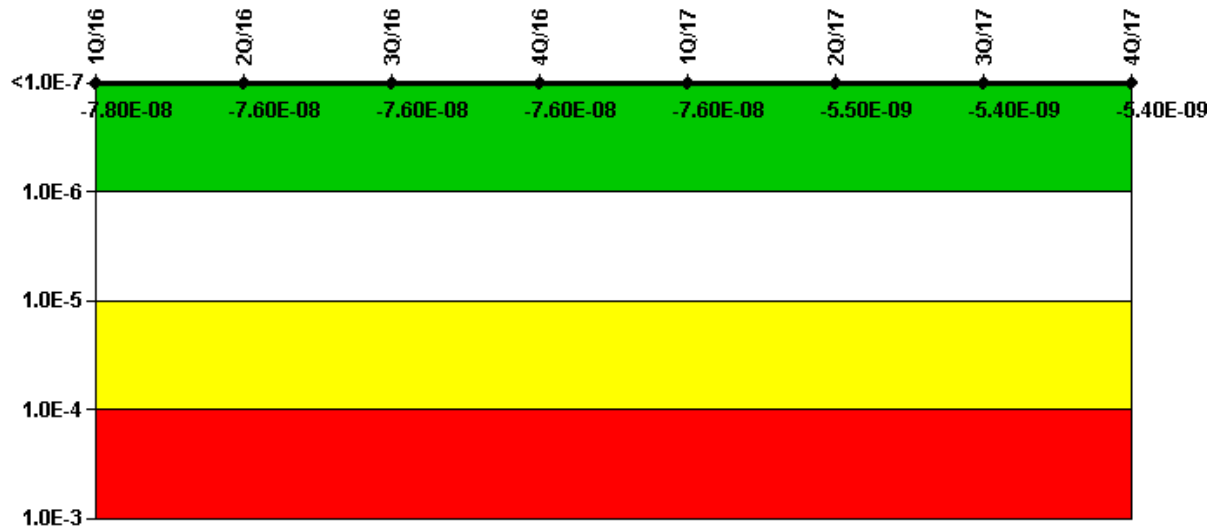
3Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

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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

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-3.42E-08	-3.42E-08	-3.42E-08	-3.42E-08	-3.42E-08	-2.53E-09	-2.53E-09	-2.53E-09
URI (ΔCDF)	-4.42E-08	-4.17E-08	-4.17E-08	-4.17E-08	-4.17E-08	-2.94E-09	-2.89E-09	-2.89E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-7.80E-08	-7.60E-08	-7.60E-08	-7.60E-08	-7.60E-08	-5.50E-09	-5.40E-09	-5.40E-09

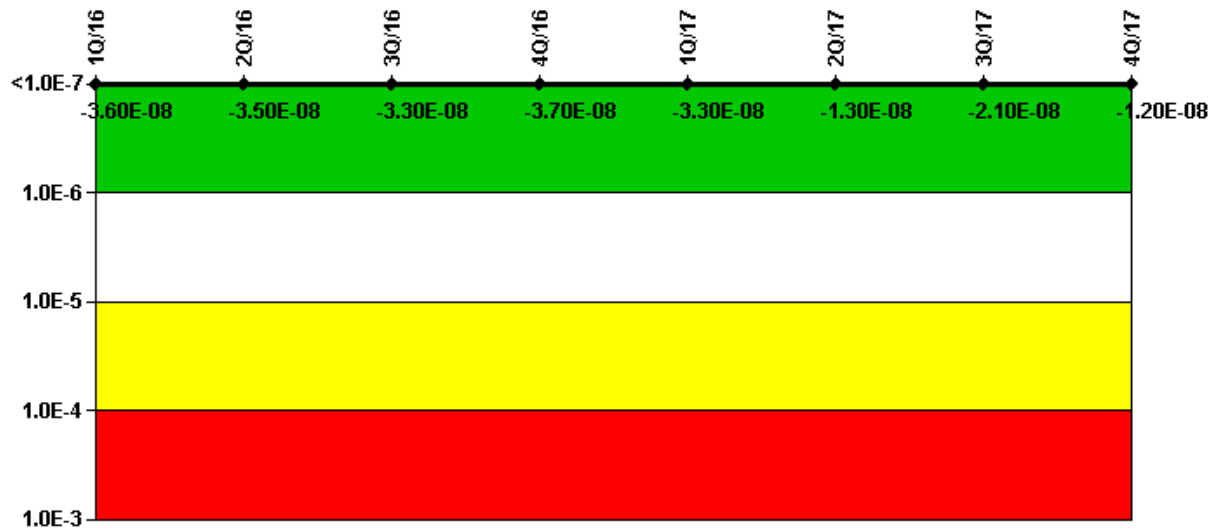
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Licensee Comments:

3Q/17: Changed PRA Parameter(s).
 2Q/17: Changed PRA Parameter(s). A new PRA model (LS2016C) specific for Unit 2 was approved in July 2017 and implemented in 2nd Quarter 2017. PRA coefficients and estimated demand changes from implementation of the surveillance frequency control program were updated in CDE to reflect the new model.
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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

	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	1.52E-08	1.49E-08	1.76E-08	1.38E-08	1.71E-08	9.94E-09	2.50E-09	1.14E-08
URI (ΔCDF)	-5.08E-08	-5.03E-08	-5.03E-08	-5.03E-08	-5.03E-08	-2.32E-08	-2.32E-08	-2.32E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-3.60E-08	-3.50E-08	-3.30E-08	-3.70E-08	-3.30E-08	-1.30E-08	-2.10E-08	-1.20E-08

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Licensee Comments:

3Q/17: Changed PRA Parameter(s).

2Q/17: Changed PRA Parameter(s). A new PRA model (LS2016C) specific for Unit 2 was approved in July 2017 and implemented in 2nd Quarter 2017. PRA coefficients and estimated demand changes from implementation of the surveillance frequency control program were updated in CDE to reflect the new model.

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.

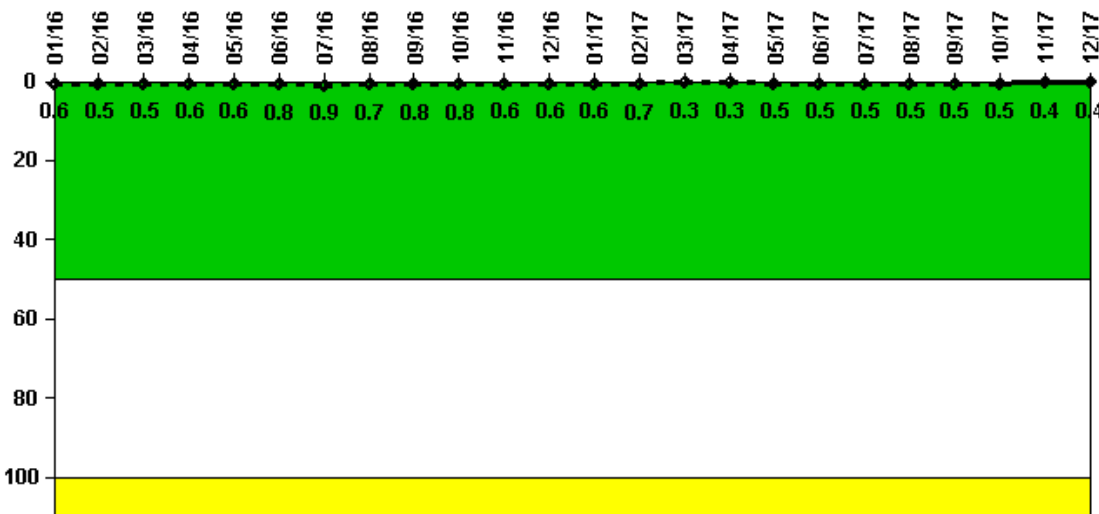
3Q/16: Changed PRA Parameter(s). 1/4/17: CDF value was corrected from 2.04E-06 to 2.01E-06 and is effective 1st Quarter 2016. This correction has been documented and does not result in a change to the MSPI performance indicator color for the affected quarters.

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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.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

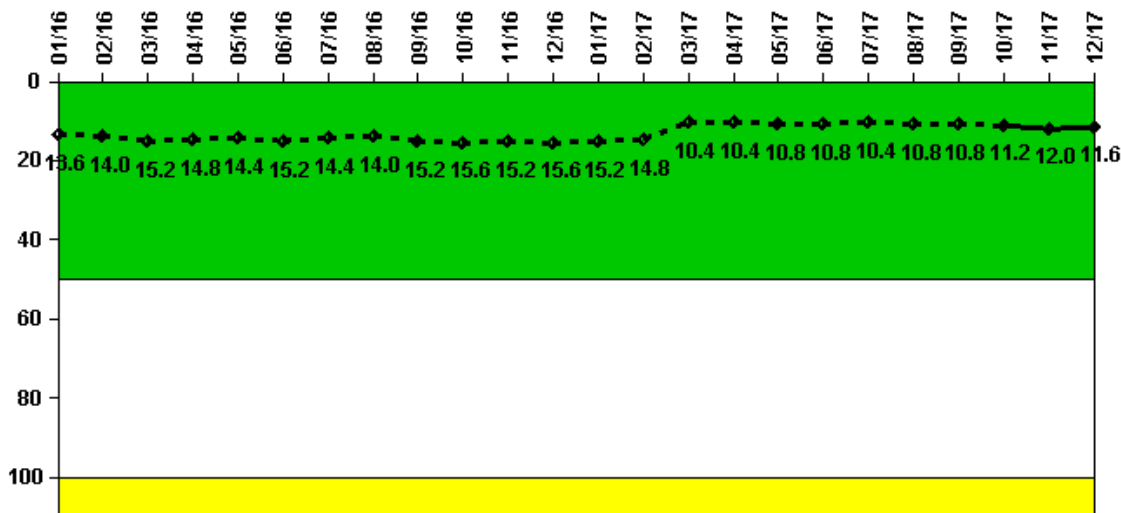
Notes

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	0.001104	0.001023	0.001069	0.001125	0.001213	0.001504	0.001701	0.001493	0.001549	0.001527	0.001248	0.001170
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	0.6	0.5	0.5	0.6	0.6	0.8	0.9	0.7	0.8	0.8	0.6	0.6
Reactor Coolant System Activity	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17	10/17	11/17	12/17
Maximum activity	0.001152	0.001369	0.000694	0.000638	0.001092	0.000927	0.000992	0.000924	0.000909	0.000925	0.000846	0.000833
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	0.6	0.7	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4

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Licensee Comments: none

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

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	3.400	3.500	3.800	3.700	3.600	3.800	3.600	3.500	3.800	3.900	3.800	3.900
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

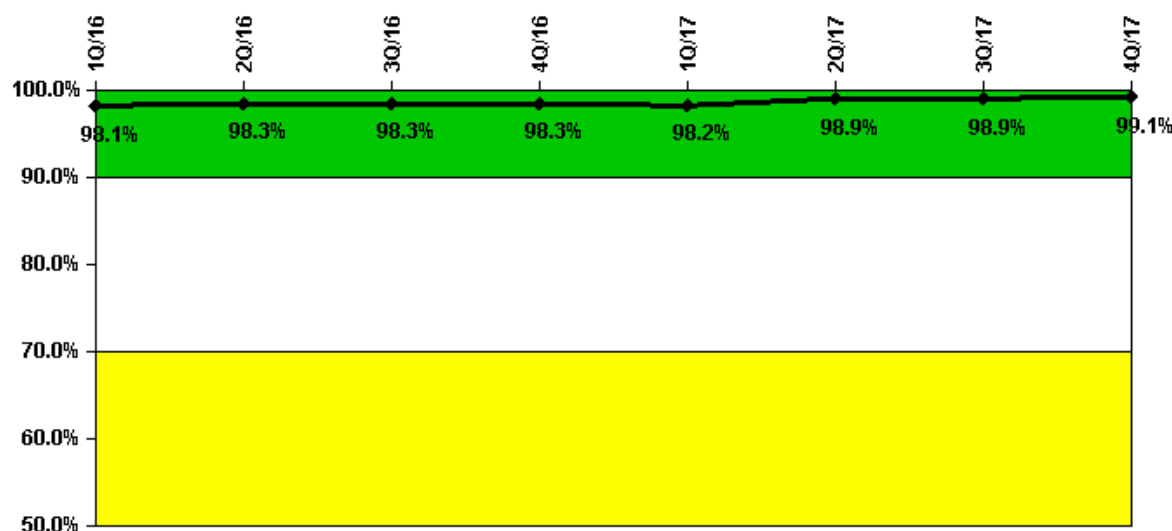
Indicator value	13.6	14.0	15.2	14.8	14.4	15.2	14.4	14.0	15.2	15.6	15.2	15.6
Reactor Coolant System Leakage	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17	10/17	11/17	12/17
Maximum leakage	3.800	3.700	2.600	2.600	2.700	2.700	2.600	2.700	2.700	2.800	3.000	2.900
Technical specification limit	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0	25.0

Indicator value	15.2	14.8	10.4	10.4	10.8	10.8	10.4	10.8	10.8	11.2	12.0	11.6
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Licensee Comments: none

Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful opportunities	13.0	141.0	98.0	36.0	24.0	100.0	78.0	65.0
Total opportunities	13.0	142.0	101.0	36.0	24.0	101.0	78.0	65.0

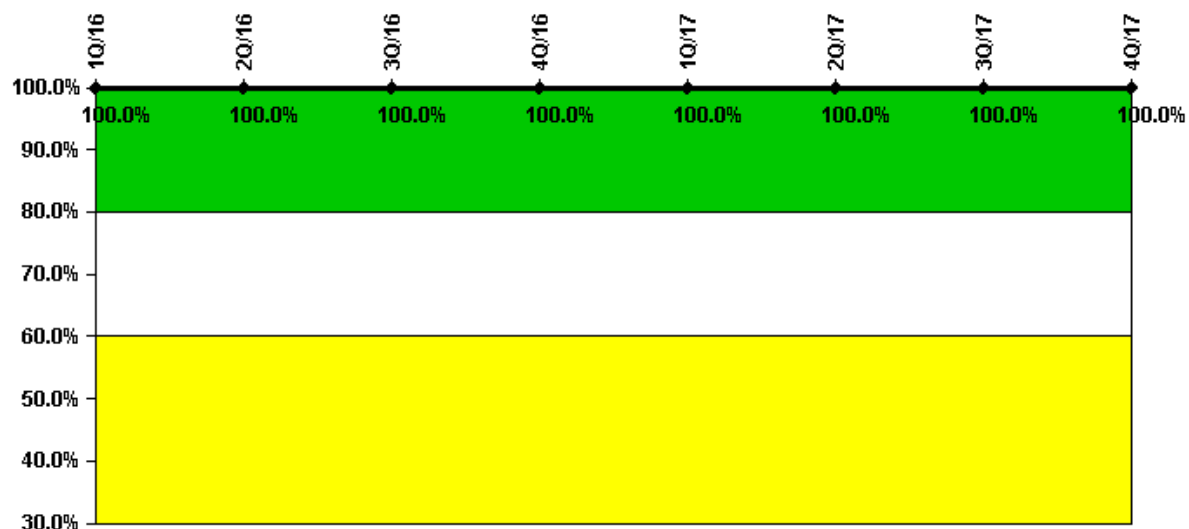
Indicator value **98.1% 98.3% 98.3% 98.3% 98.2% 98.9% 98.9% 99.1%**

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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 in the corrective action program and does not result in a change to the performance indicator color.

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Participating Key personnel	67.0	63.0	62.0	62.0	63.0	65.0	64.0	71.0
Total Key personnel	67.0	63.0	62.0	62.0	63.0	65.0	64.0	71.0

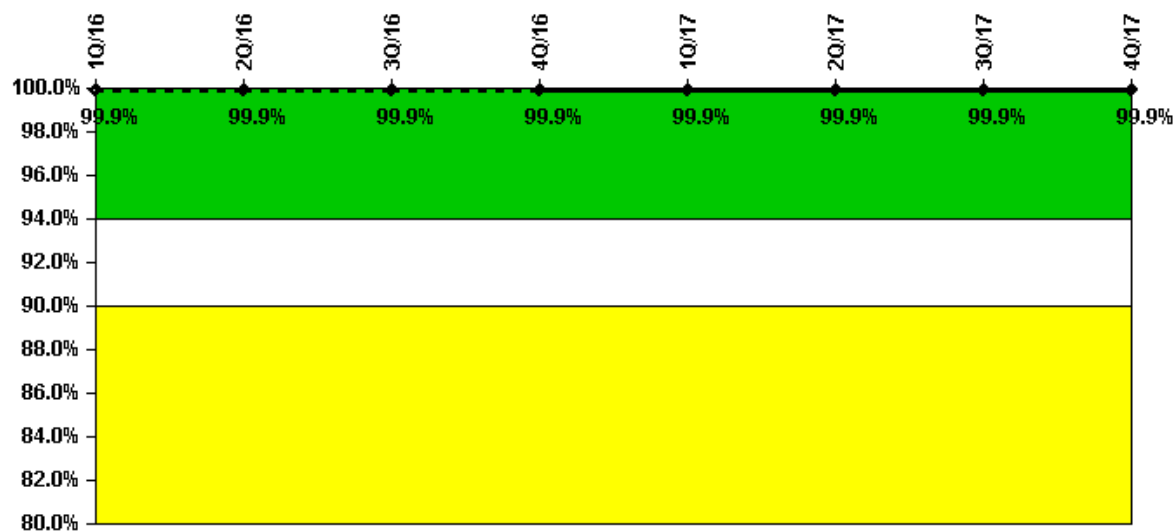
Indicator value **100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0% 100.0%**

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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

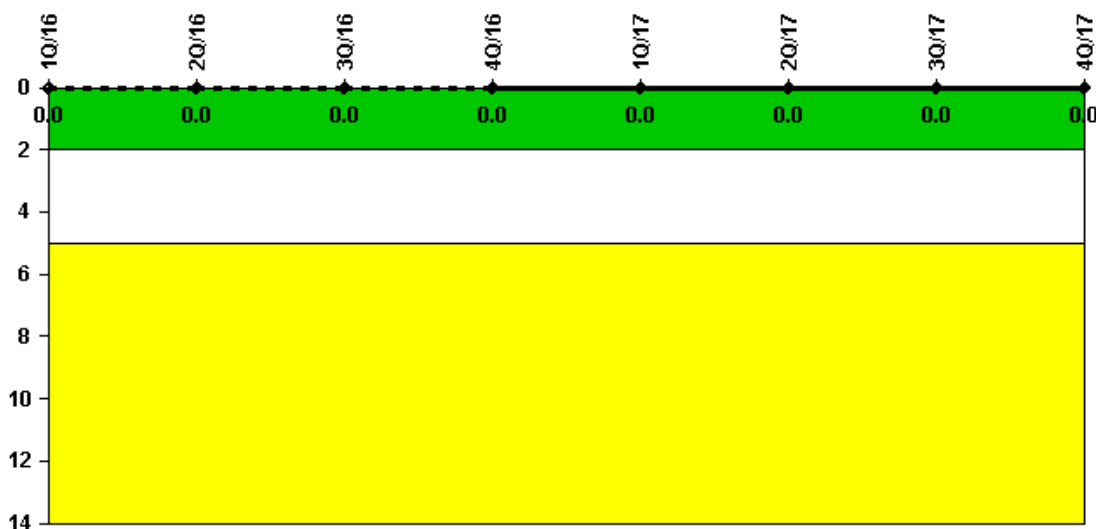
Alert & Notification System	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Successful siren-tests	2175	2174	2170	2106	2210	2173	2140	2141
Total sirens-tests	2176	2176	2176	2108	2210	2176	2142	2142

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

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Licensee Comments: none

Occupational Exposure Control Effectiveness



Thresholds: White > 2.0 Yellow > 5.0

Notes

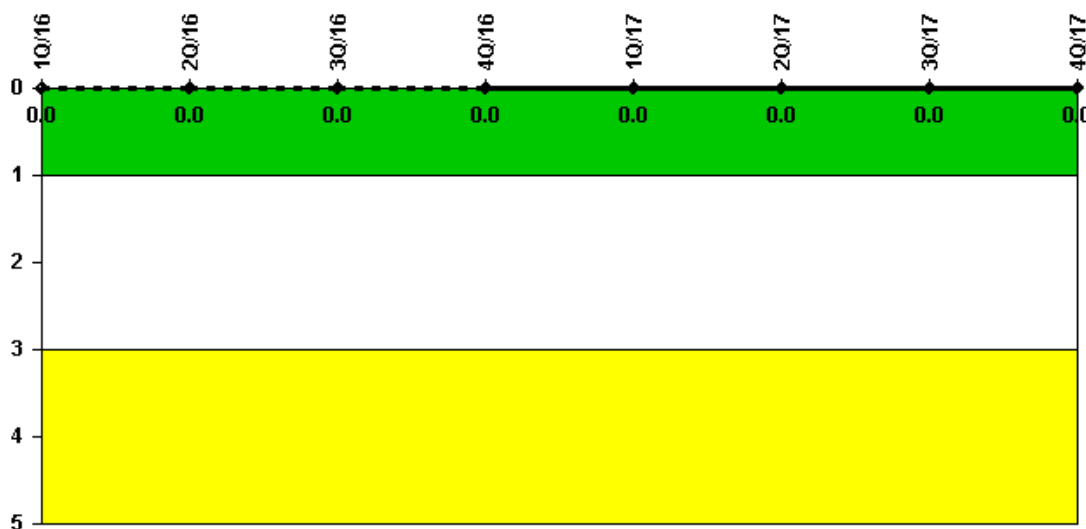
Occupational Exposure Control Effectiveness 1Q/16 2Q/16 3Q/16 4Q/16 1Q/17 2Q/17 3Q/17 4Q/17

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
Indicator value	0	0	0	0	0	0	0	0

TOP

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

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

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

Indicator value 0 0 0 0 0 0 0 0

▲ TOP

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: February 1, 2018

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