

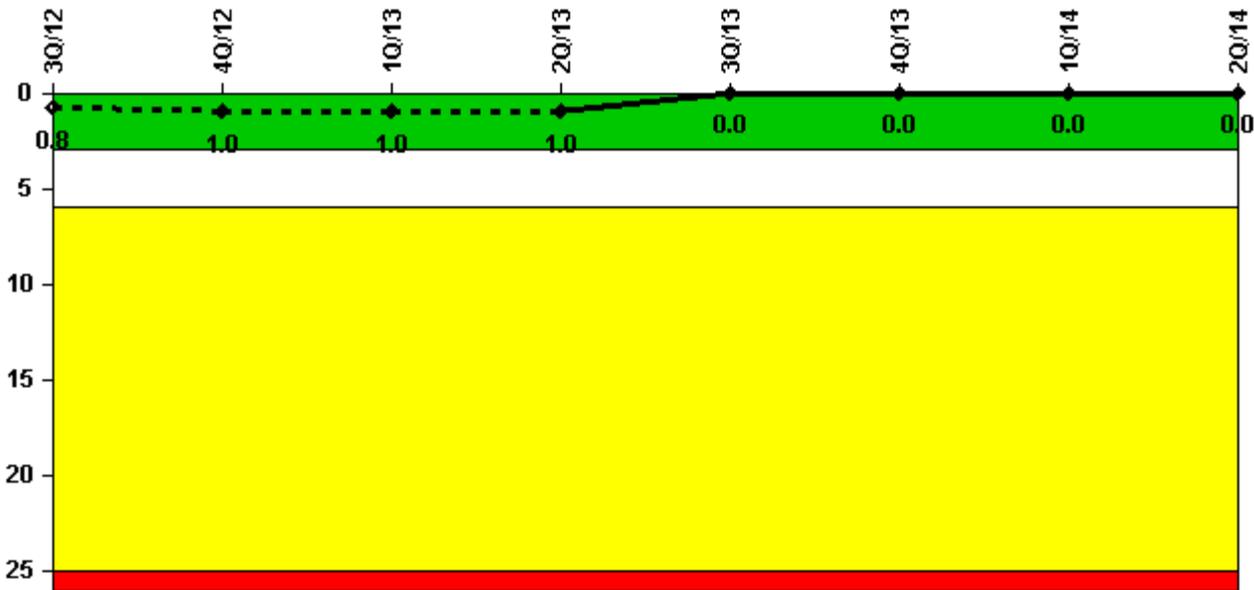
# Prairie Island 1

## 2Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



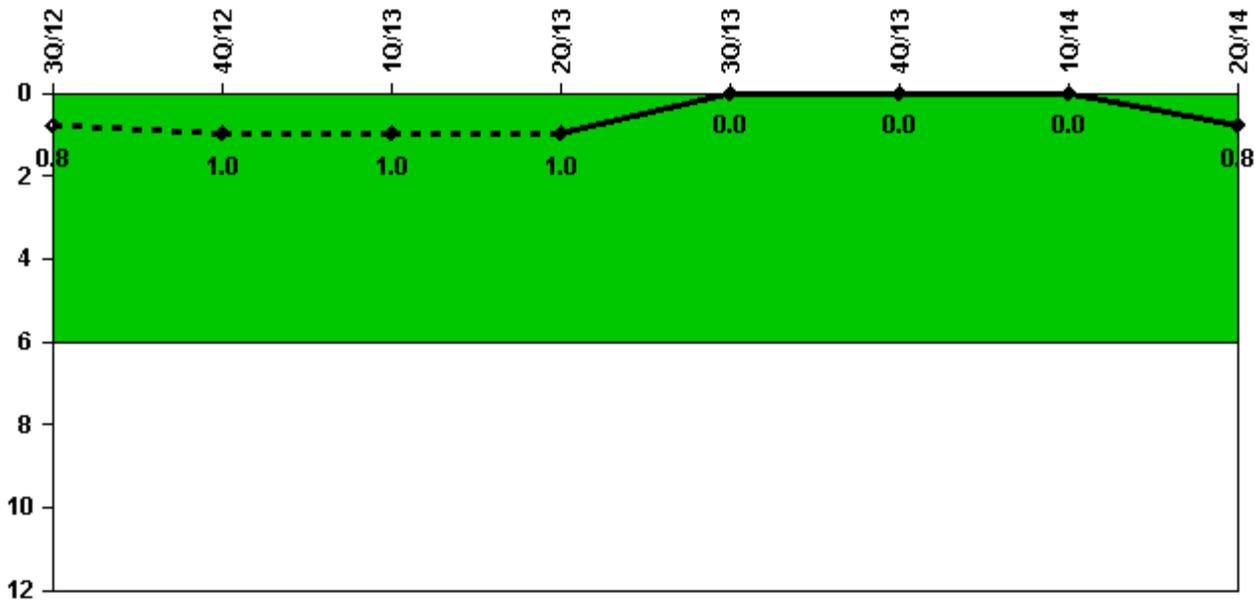
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2095.9	533.8	2159.0	2184.0	2208.0	2209.0	2159.0	2184.0
<b>Indicator value</b>	<b>0.8</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



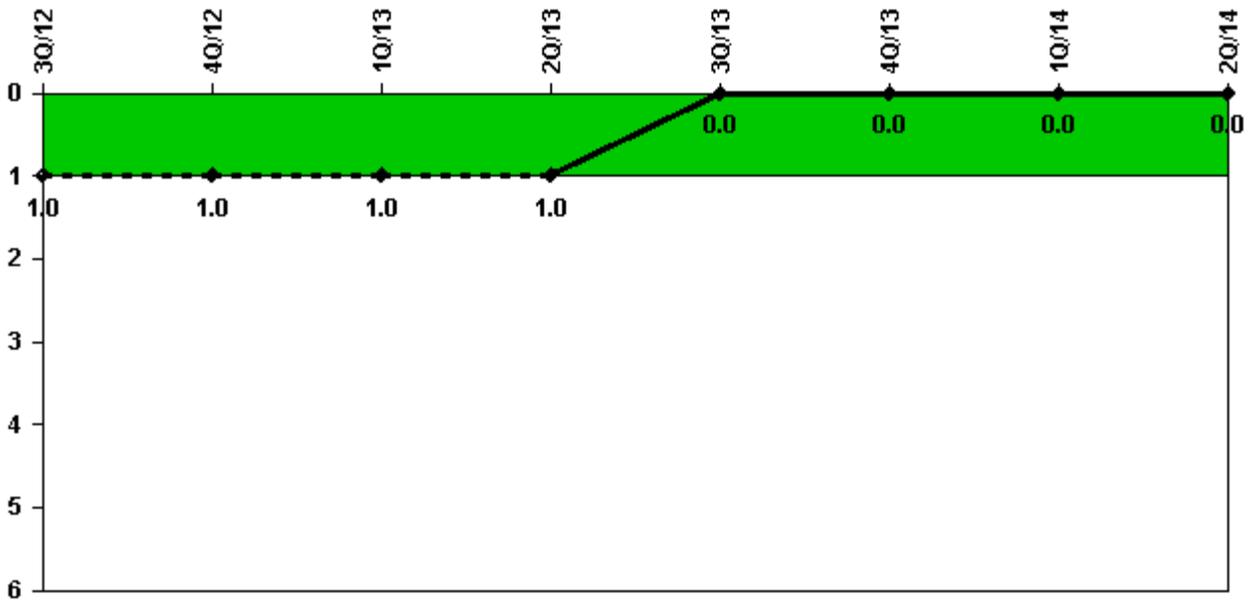
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned power changes	1.0	0	0	0	0	0	0	1.0
Critical hours	2095.9	533.8	2159.0	2184.0	2208.0	2209.0	2159.0	2184.0
<b>Indicator value</b>	<b>0.8</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.8</b>

Licensee Comments: none

### Unplanned Scrams with Complications



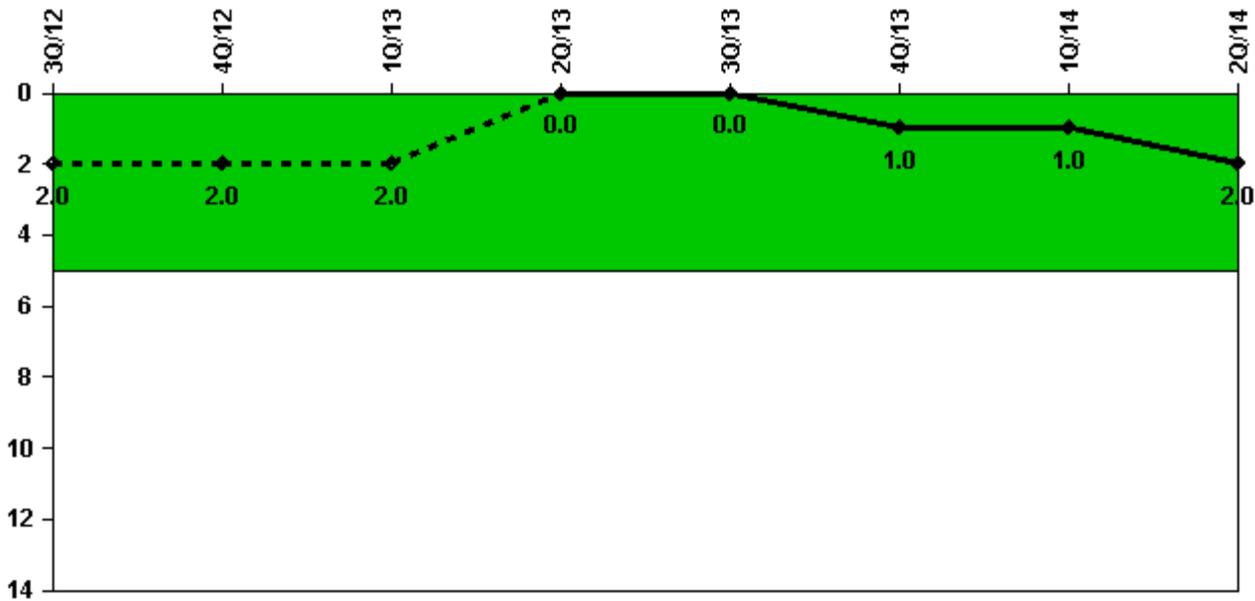
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Scrams with complications	1.0	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>1.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

#### Notes

Safety System Functional Failures (PWR)	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Safety System Functional Failures	0	0	0	0	0	1	0	1
<b>Indicator value</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>2</b>

#### Licensee Comments:

2Q/14: LER 50/282-2014-001-00, "D1/D2 EDGs Inoperable Due to Outside Air Temperature Greater Than 97 Degrees Fahrenheit" was submitted for Unit 1 on 6/24/14.

4Q/13: LER 50-282/2013-001-00, 10/8/2013, Control Room Envelope Inoperable.

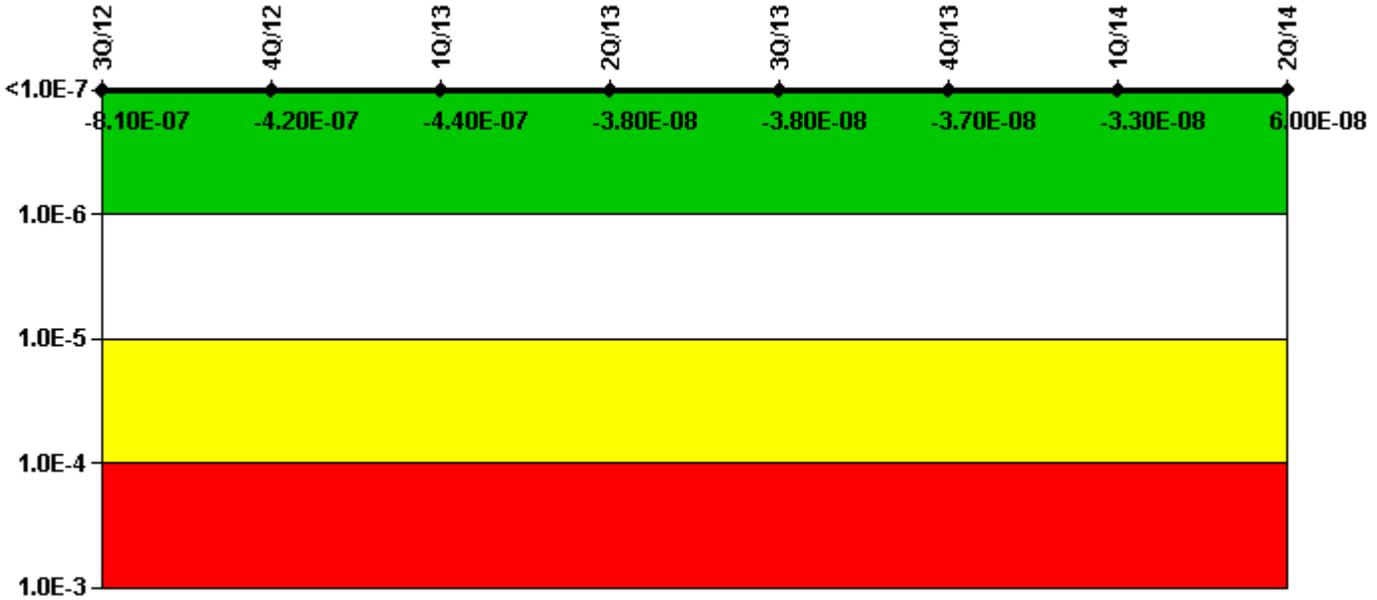
4Q/12: LER 50-282/2012-005-00, Oct 12, 2012, Unit 1 Diesel Generator Declared inoperable due to exhaust fire. Loss of both DGs represents a loss of redundancy in the availability of electrical power systems.

4Q/12: LER 50-282/2012-005-00, Oct 12, 2012, Unit 1 Diesel Generator Declared inoperable due to exhaust fire. Loss of both DGs represents a loss of redundancy in the availability of electrical power systems. Revised to not be a SSFF on 10/21/13.

3Q/12: LER 50-282/2012-004-00, Sept 14, 2012, Unit 1 Emergency Diesel Generators Declared inoperable due to high ambient temperatures. This LER was retracted on 12/13/12.

3Q/12: LER 50-282/2012-004-00, Sept 14, 2012, Unit 1 Emergency Diesel Generators Declared inoperable due to high ambient temperatures.

### 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/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	-5.32E-08	-5.27E-08	-5.27E-08	-1.64E-08	-1.64E-08	-1.64E-08	-1.44E-08	-1.48E-08
URI (ΔCDF)	-7.52E-07	-3.72E-07	-3.90E-07	-2.19E-08	-2.11E-08	-2.03E-08	-1.86E-08	7.47E-08
PLE	NO	NO						
Indicator value	<b>-8.10E-07</b>	<b>-4.20E-07</b>	<b>-4.40E-07</b>	<b>-3.80E-08</b>	<b>-3.80E-08</b>	<b>-3.70E-08</b>	<b>-3.30E-08</b>	<b>6.00E-08</b>

#### Licensee Comments:

1Q/14: Changed PRA Parameter(s). The PINGP PRA Model Revision 5.0 was approved on 12/20/2013 with a corresponding MSPI Basis Document Revision 13 approved on 4/3/2014. The PRA model revision was a periodic update to the model which included an update to incorporate newly installed Unit 2 RCP Seals. As a result of the PRA model change, both units CDF and Fussel-Vesely values for all monitored trains and components were revised, and Auxiliary Feedwater monitored components were added.

4Q/13: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

3Q/13: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported.

Changes do not result in a color change for any MSPI system.

2Q/13: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

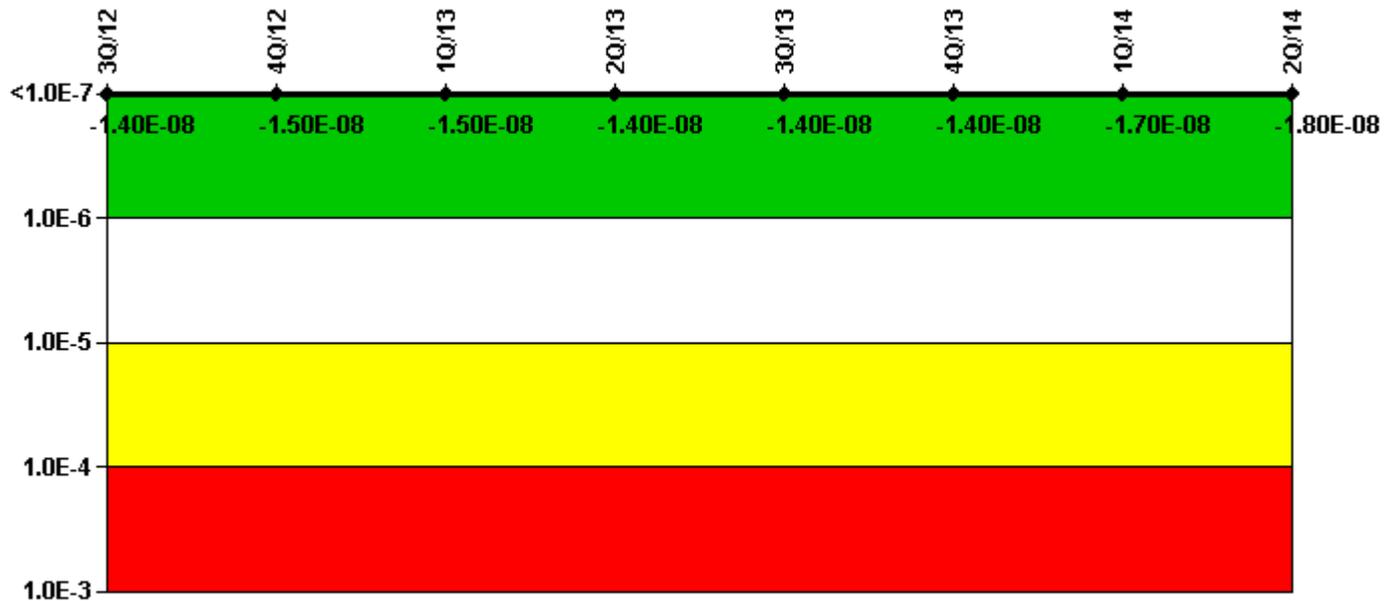
2Q/13: Changed PRA Parameter(s).

1Q/13: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

4Q/12: Revised 3rd and 4th quarter 2012 indicator based on incomplete data. No thresholds exceeded, indicator remains green.

3Q/12: Revised 3rd and 4th quarter 2012 indicator based on incomplete data. No thresholds exceeded, indicator remains green.

### 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	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	1.20E-08	1.28E-08	1.29E-08	1.22E-08	1.24E-08	1.23E-08	6.42E-09	5.41E-09
URI (ΔCDF)	-2.60E-08	-2.77E-08	-2.78E-08	-2.62E-08	-2.62E-08	-2.63E-08	-2.39E-08	-2.30E-08
PLE	NO							

<b>Indicator value</b>	<b>-1.40E-08</b>	<b>-1.50E-08</b>	<b>-1.50E-08</b>	<b>-1.40E-08</b>	<b>-1.40E-08</b>	<b>-1.40E-08</b>	<b>-1.70E-08</b>	<b>-1.80E-08</b>
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## Licensee Comments:

1Q/14: Changed PRA Parameter(s). The PINGP PRA Model Revision 5.0 was approved on 12/20/2013 with a corresponding MSPI Basis Document Revision 13 approved on 4/3/2014. The PRA model revision was a periodic update to the model which included an update to incorporate newly installed Unit 2 RCP Seals. As a result of the PRA model change, both units CDF and Fussel-Vesely values for all monitored trains and components were revised, and Auxiliary Feedwater monitored components were added.

4Q/13: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

3Q/13: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

2Q/13: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

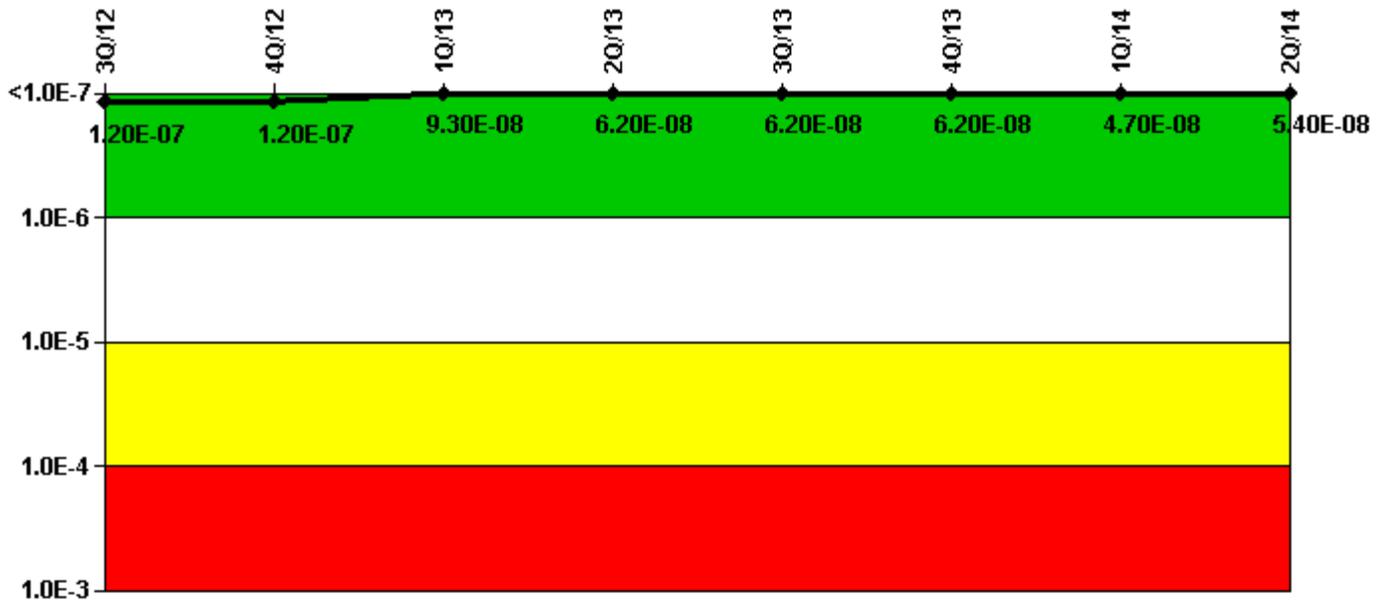
2Q/13: Changed PRA Parameter(s).

1Q/13: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

4Q/12: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

3Q/12: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

### 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	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI ( $\Delta$ CDF)	2.35E-08	2.25E-08	1.16E-09	-2.54E-08	-2.54E-08	-2.54E-08	-1.86E-08	-1.88E-08
URI ( $\Delta$ CDF)	9.85E-08	9.39E-08	9.21E-08	8.74E-08	8.74E-08	8.74E-08	6.56E-08	7.24E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	1.20E-07	1.20E-07	9.30E-08	6.20E-08	6.20E-08	6.20E-08	4.70E-08	5.40E-08

#### Licensee Comments:

1Q/14: Changed PRA Parameter(s). The PINGP PRA Model Revision 5.0 was approved on 12/20/2013 with a corresponding MSPI Basis Document Revision 13 approved on 4/3/2014. The PRA model revision was a periodic update to the model which included an update to incorporate newly installed Unit 2 RCP Seals. As a result of the PRA model change, both units CDF and Fussel-Vesely values for all monitored trains and components were revised, and Auxiliary Feedwater monitored components were added.

4Q/13: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

3Q/13: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

2Q/13: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

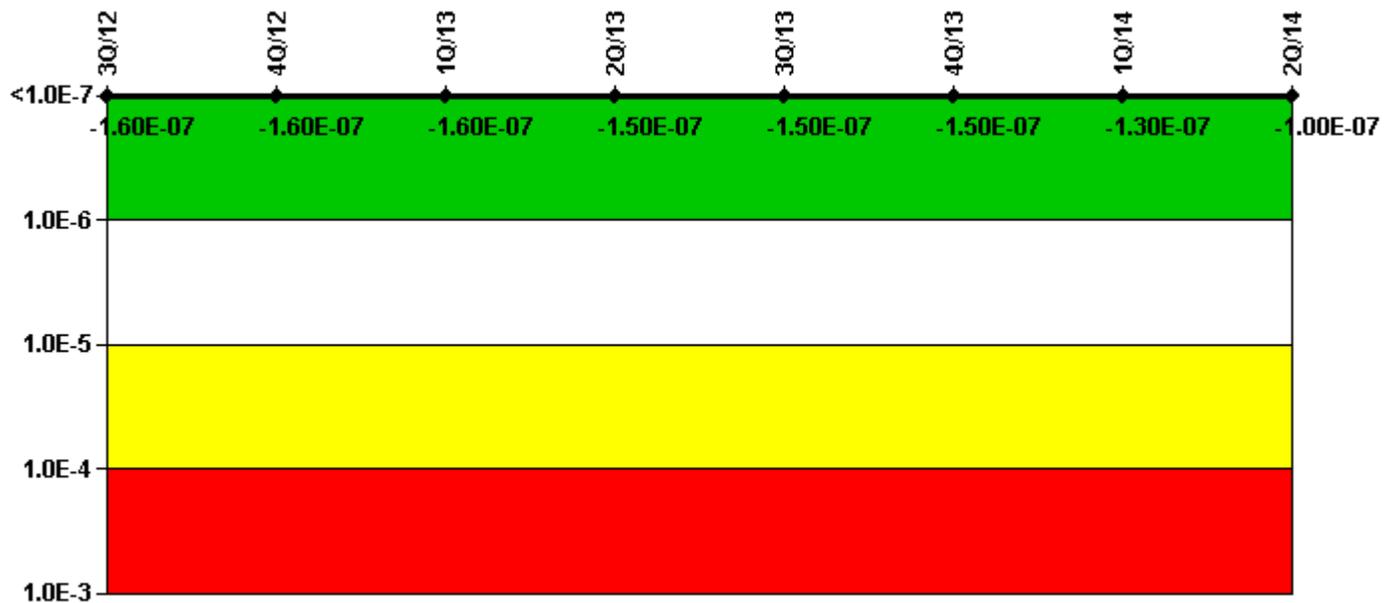
2Q/13: Changed PRA Parameter(s).

1Q/13: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

4Q/12: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

3Q/12: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

### 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/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI ( $\Delta$ CDF)	-2.68E-08	-2.68E-08	-2.68E-08	-2.38E-08	-2.38E-08	-2.38E-08	-1.83E-08	-1.83E-08
URI ( $\Delta$ CDF)	-1.31E-07	-1.35E-07	-1.35E-07	-1.25E-07	-1.25E-07	-1.25E-07	-1.08E-07	-8.15E-08
PLE	NO							
Indicator value	-1.60E-07	-1.60E-07	-1.60E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.30E-07	-1.00E-07

Licensee Comments:

1Q/14: MSPI Unavailability corrections due to previously missed unavailability windows when using RHR as load for Component Cooling Water testing.

1Q/14: Changed PRA Parameter(s). The PINGP PRA Model Revision 5.0 was approved on 12/20/2013 with a corresponding MSPI Basis Document Revision 13 approved on 4/3/2014. The PRA model revision was a periodic update to the model which included an update to incorporate newly installed Unit 2 RCP Seals. As a result of the PRA model change, both units CDF and Fussel-Vesely values for all monitored trains and components were revised, and Auxiliary Feedwater monitored components were added.

4Q/13: MSPI Unavailability corrections due to previously missed unavailability windows when using RHR as load for Component Cooling Water testing.

3Q/13: MSPI Unavailability corrections due to previously missed unavailability windows when using RHR as load for Component Cooling Water testing; also identify unavailability window extended from that previously reported.

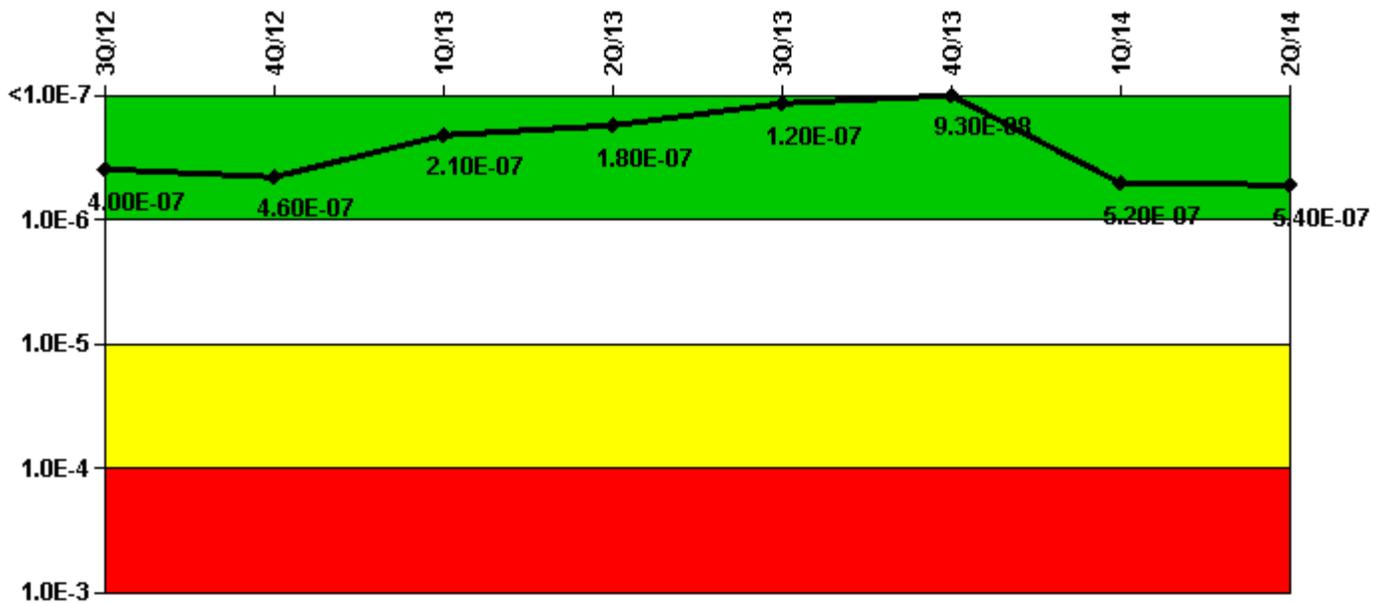
2Q/13: MSPI Unavailability corrections due to previously missed unavailability windows when using RHR as load for Component Cooling Water testing.

2Q/13: Changed PRA Parameter(s).

1Q/13: MSPI Unavailability corrections due to previously missed unavailability windows when using RHR as load for Component Cooling Water testing.

3Q/12: MSPI Unavailability corrections due to previously missed unavailability windows when using RHR as load for Component Cooling Water testing.

### 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/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
UAI (ΔCDF)	7.97E-07	8.59E-07	6.10E-07	4.46E-07	3.90E-07	3.63E-07	5.63E-07	5.66E-07
URI (ΔCDF)	-3.94E-07	-4.04E-07	-4.02E-07	-2.66E-07	-2.68E-07	-2.70E-07	-3.89E-08	-2.91E-08
PLE	NO							
<b>Indicator value</b>	<b>4.00E-07</b>	<b>4.60E-07</b>	<b>2.10E-07</b>	<b>1.80E-07</b>	<b>1.20E-07</b>	<b>9.30E-08</b>	<b>5.20E-07</b>	<b>5.40E-07</b>

#### Licensee Comments:

1Q/14: The PINGP PRA Model Revision 5.0 was approved on 12/20/2013 with a corresponding MSPI Basis Document Revision 13 approved on 4/3/2014. The PRA model revision was a periodic update to the model which included an update to incorporate newly installed Unit 2 RCP Seals. As a result of the PRA model change, both units CDF and Fussel-Vesely values for all monitored trains and components were revised, and Auxiliary Feedwater monitored components were added.

1Q/14: Changed PRA Parameter(s). The PINGP PRA Model Revision 5.0 was approved on 12/20/2013 with a corresponding MSPI Basis Document Revision 13 approved on 4/3/2014. The PRA model revision was a periodic update to the model which included an update to incorporate newly installed Unit 2 RCP Seals. As a result of the PRA model change, both units CDF and Fussel-Vesely values for all monitored trains and components were revised, and Auxiliary Feedwater monitored components were added.

4Q/13: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

4Q/13: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

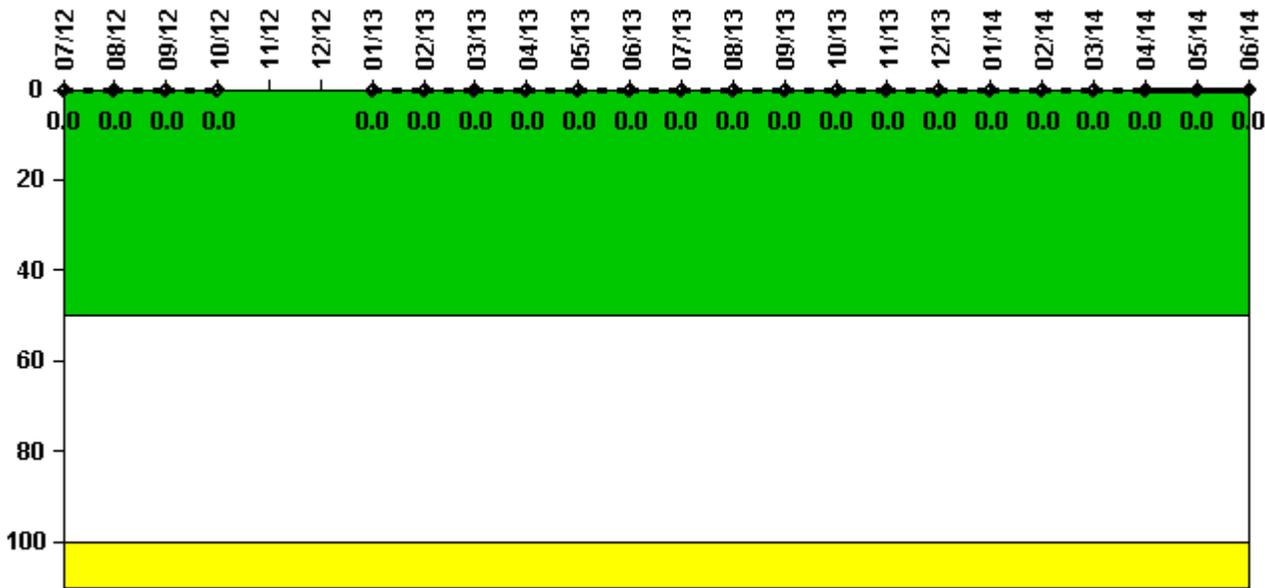
2Q/13: Changed PRA Parameter(s).

4Q/12: MSPI Unavailability corrections due to unavailability correction made in first quarter 2014 which applied reactor not critical exclusion to the wrong unit; Unit 1 was not critical, Unit 2 was critical during this event window.

4Q/12: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

3Q/12: 2014 review of previously submitted data identified corrections to be made to MSPI Data reported. Changes do not result in a color change for any MSPI system.

### Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

### Notes

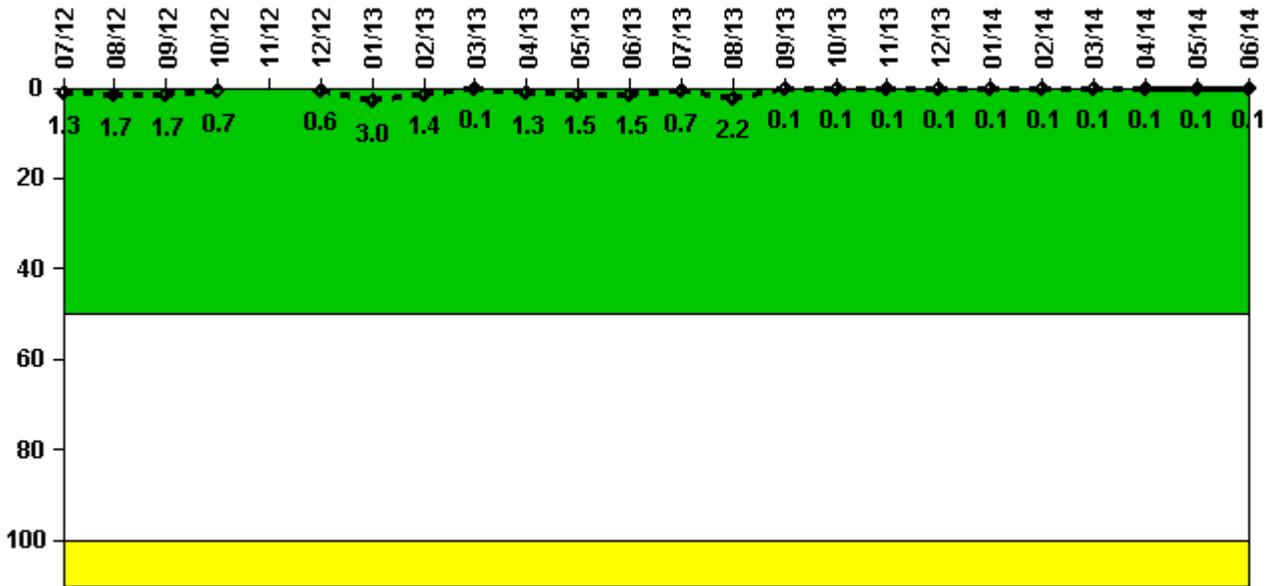
Reactor Coolant System Activity	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum activity	0.000126	0.000118	0.000124	0.000128	N/A	N/A	0.000068	0.000068	0.000083	0.000081	0.000081	0.000085
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0	0	0	0	N/A	N/A	0	0	0	0	0	0

Reactor Coolant System Activity	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum activity	0.000079	0.000091	0.000092	0.000093	0.000092	0.000117	0.000043	0.000063	0.000054	0.000051	0.000059	0.000060
Technical specification limit	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Indicator value	0	0	0	0	0	0	0	0	0	0	0	0

Licensee Comments:

3/13: Revised Unit 1 data for RCS Specific Activity (Maximum I=131) for the month of March 2013. The change does not affect the color of the indicator.

### Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

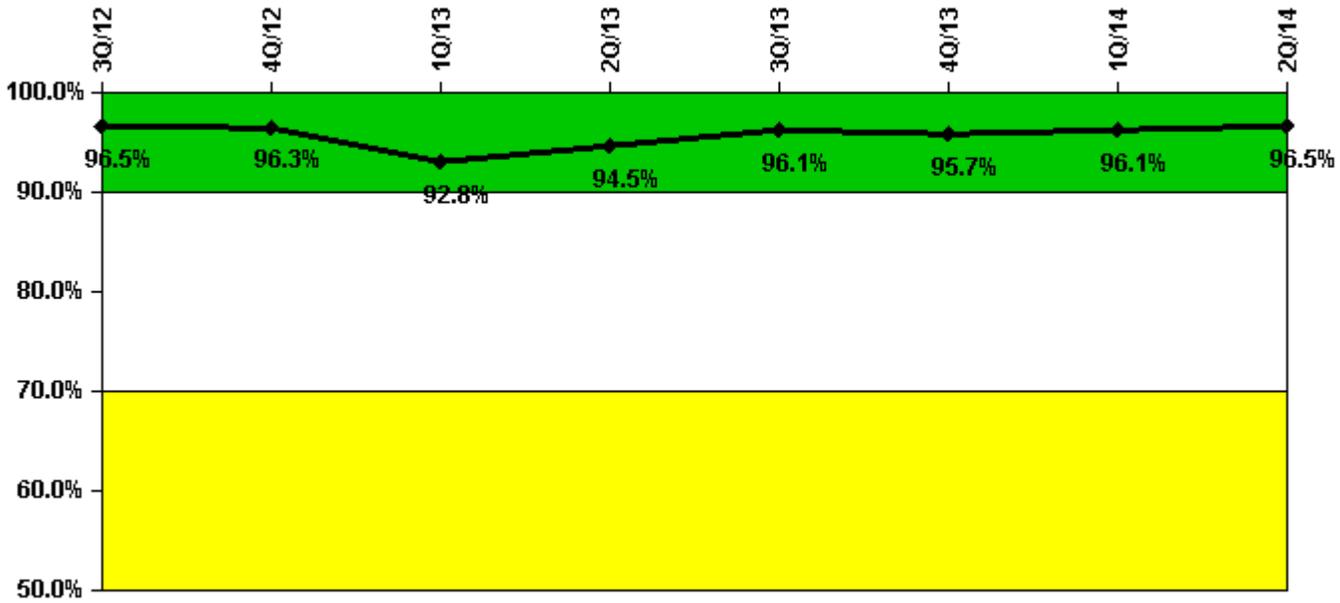
Reactor Coolant System Leakage	7/12	8/12	9/12	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13
Maximum leakage	0.130	0.167	0.167	0.067	N/A	0.061	0.301	0.141	0.011	0.127	0.150	0.150
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0

<b>Indicator value</b>	<b>1.3</b>	<b>1.7</b>	<b>1.7</b>	<b>0.7</b>	<b>N/A</b>	<b>0.6</b>	<b>3.0</b>	<b>1.4</b>	<b>0.1</b>	<b>1.3</b>	<b>1.5</b>	<b>1.5</b>
<b>Reactor Coolant System Leakage</b>	<b>7/13</b>	<b>8/13</b>	<b>9/13</b>	<b>10/13</b>	<b>11/13</b>	<b>12/13</b>	<b>1/14</b>	<b>2/14</b>	<b>3/14</b>	<b>4/14</b>	<b>5/14</b>	<b>6/14</b>
Maximum leakage	0.070	0.221	0.007	0.007	0.007	0.005	0.005	0.007	0.007	0.012	0.009	0.014
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
<b>Indicator value</b>	<b>0.7</b>	<b>2.2</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>	<b>0.1</b>

Licensee Comments:

3/13: Correction to previously submitted Reactor Leakage for January 2013 on Unit 1. Change does not affect the color of the indicator.

### Drill/Exercise Performance



Thresholds: White < 90.0% Yellow < 70.0%

### Notes

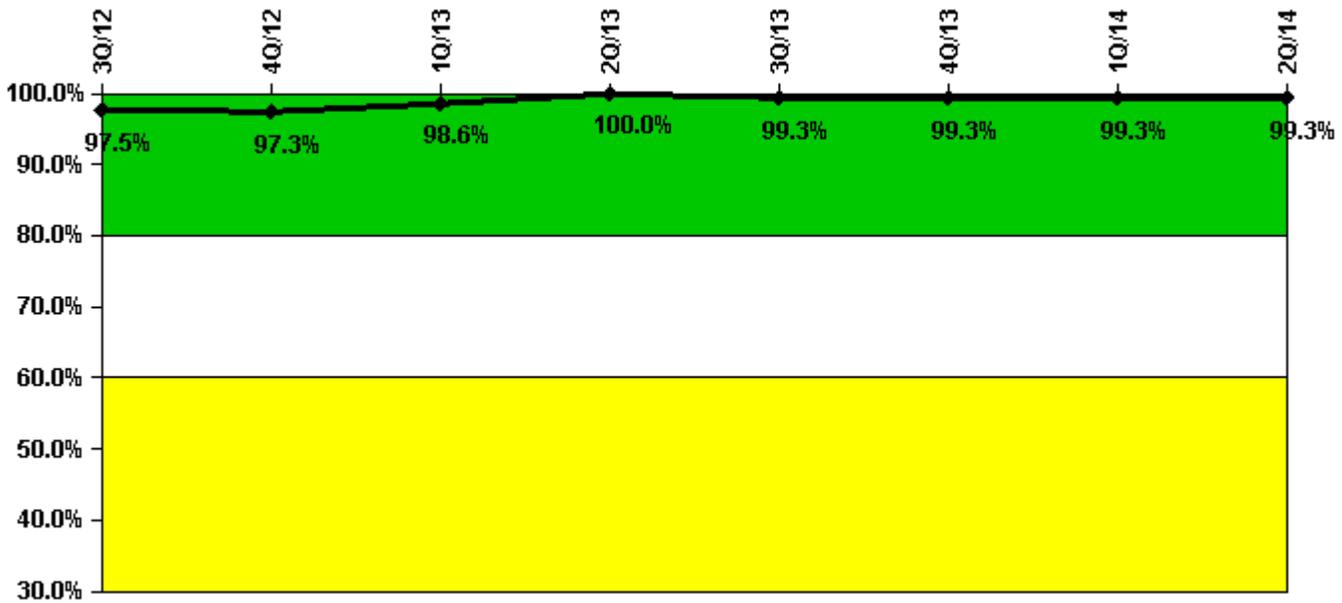
<b>Drill/Exercise Performance</b>	<b>3Q/12</b>	<b>4Q/12</b>	<b>1Q/13</b>	<b>2Q/13</b>	<b>3Q/13</b>	<b>4Q/13</b>	<b>1Q/14</b>	<b>2Q/14</b>
Successful opportunities	31.0	9.0	38.0	86.0	111.0	0	106.0	112.0
Total opportunities	32.0	10.0	45.0	87.0	113.0	0	110.0	114.0
<b>Indicator value</b>	<b>96.5%</b>	<b>96.3%</b>	<b>92.8%</b>	<b>94.5%</b>	<b>96.1%</b>	<b>95.7%</b>	<b>96.1%</b>	<b>96.5%</b>

Licensee Comments:

3Q/13: DEP data for Aug 2013 was changed. The change does not affect the color of the indicator.

1Q/13: DEP data for Feb 2013 was changed. The change does not affect the color of the indicator.

### ERO Drill Participation



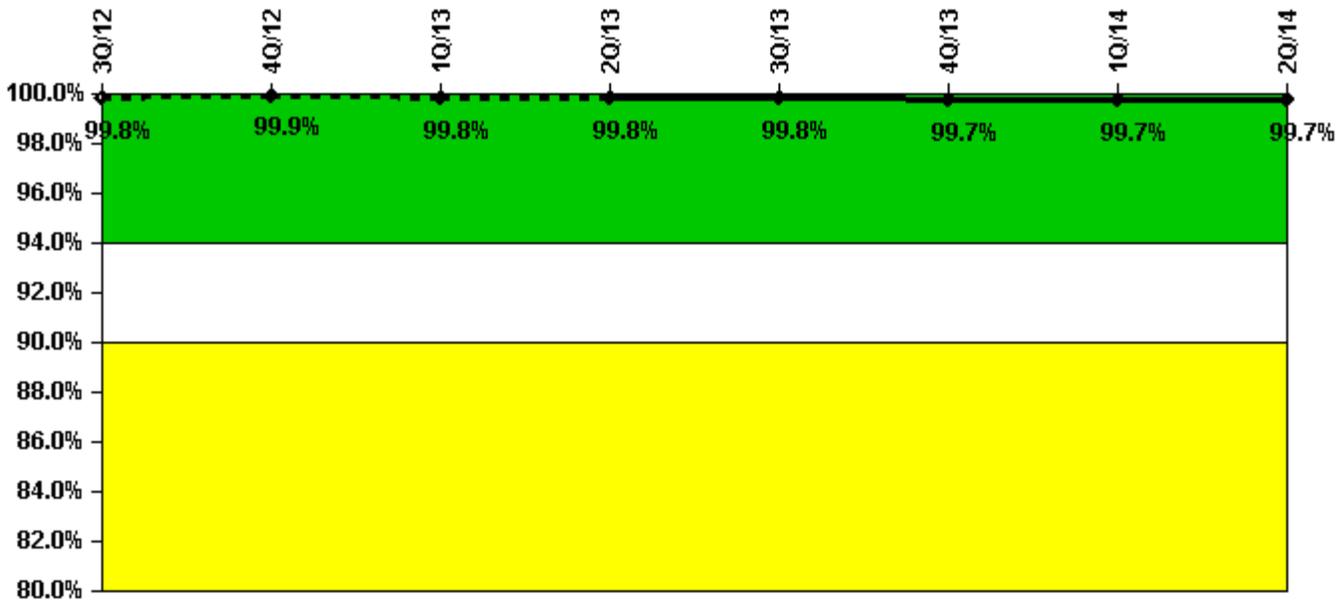
Thresholds: White < 80.0% Yellow < 60.0%

### Notes

ERO Drill Participation	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Participating Key personnel	157.0	144.0	140.0	144.0	144.0	141.0	142.0	149.0
Total Key personnel	161.0	148.0	142.0	144.0	145.0	142.0	143.0	150.0
Indicator value	97.5%	97.3%	98.6%	100.0%	99.3%	99.3%	99.3%	99.3%

Licensee Comments: none

### Alert & Notification System



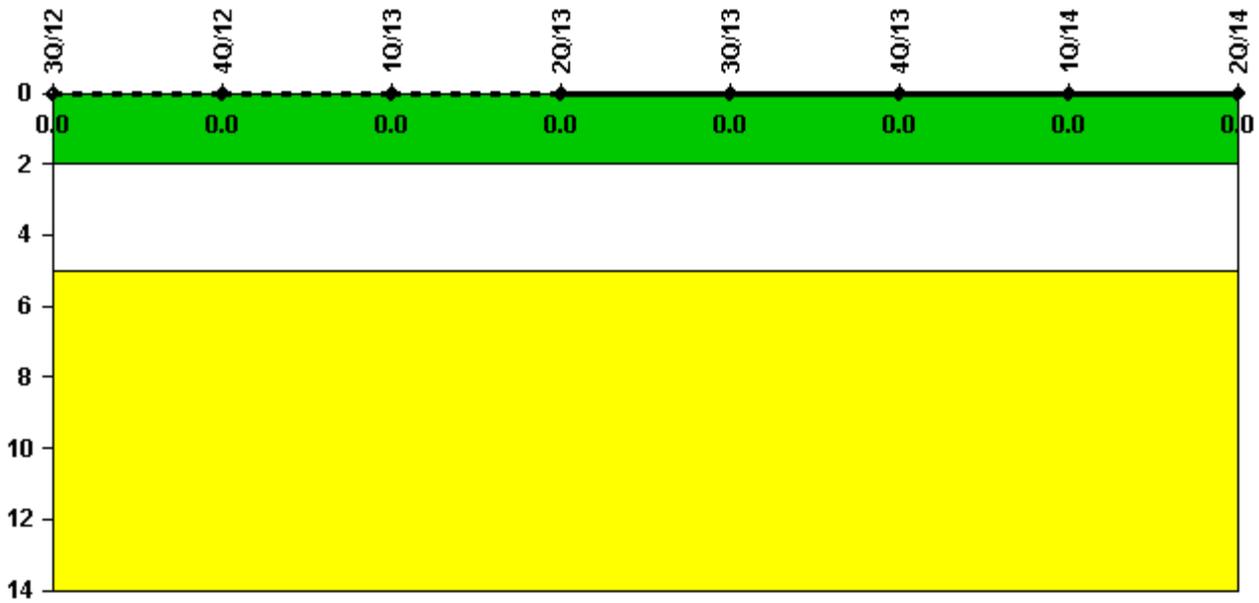
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful siren-tests	1520	1519	1515	1519	1520	1591	1591	1596
Total sirens-tests	1521	1521	1521	1521	1521	1599	1599	1599
Indicator value	99.8%	99.9%	99.8%	99.8%	99.8%	99.7%	99.7%	99.7%

Licensee Comments: none

### Occupational Exposure Control Effectiveness



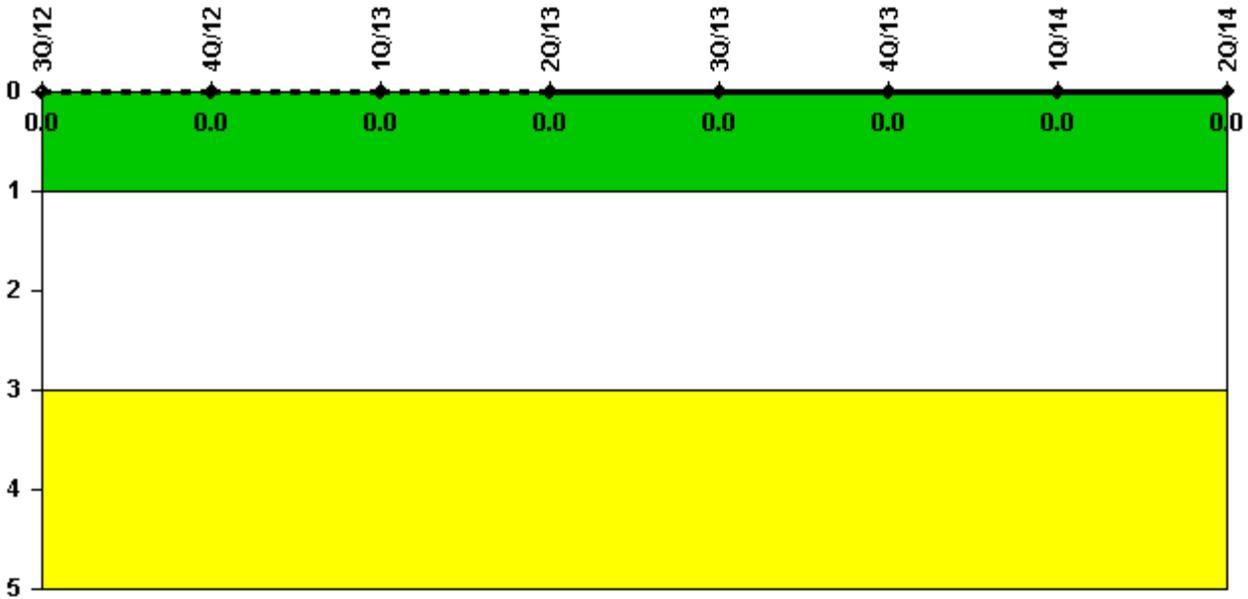
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
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>							

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
<b>Indicator value</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: July 31, 2014*