

# 1Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none



[Link to Notes](#)

<b>Unplanned Scrams per 7000 Critical Hrs</b>	<b>2Q/14</b>	<b>3Q/14</b>	<b>4Q/14</b>	<b>1Q/15</b>	<b>2Q/15</b>	<b>3Q/15</b>	<b>4Q/15</b>	<b>1Q/16</b>
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2184.0	2208.0	2209.0	1339.4	2184.0	2208.0	2141.3	2183.0
<b>Indicator value</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0.9</b>	<b>0.8</b>



Licensee Comments: none



[Link to Notes](#)

<b>Unplanned Power Changes per 7000 Critical Hrs</b>	<b>2Q/14</b>	<b>3Q/14</b>	<b>4Q/14</b>	<b>1Q/15</b>	<b>2Q/15</b>	<b>3Q/15</b>	<b>4Q/15</b>	<b>1Q/16</b>
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	1339.4	2184.0	2208.0	2141.3	2183.0
<b>Indicator value</b>	<b>1.8</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



[Link to Notes](#)

<b>Unplanned Scrams with Complications</b>	<b>2Q/14</b>	<b>3Q/14</b>	<b>4Q/14</b>	<b>1Q/15</b>	<b>2Q/15</b>	<b>3Q/15</b>	<b>4Q/15</b>	<b>1Q/16</b>
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



[Link to Notes](#)

<b>Safety System Functional Failures (PWR)</b>	<b>2Q/14</b>	<b>3Q/14</b>	<b>4Q/14</b>	<b>1Q/15</b>	<b>2Q/15</b>	<b>3Q/15</b>	<b>4Q/15</b>	<b>1Q/16</b>
Safety System Functional Failures	1	0	0	0	0	0	0	0
<b>Indicator value</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



Licensee Comments: none



[Link to Notes](#)

<b>Mitigating Systems Performance Index, Emergency AC Power System</b>	<b>2Q/14</b>	<b>3Q/14</b>	<b>4Q/14</b>	<b>1Q/15</b>	<b>2Q/15</b>	<b>3Q/15</b>	<b>4Q/15</b>	<b>1Q/16</b>
UAI ( $\Delta$ CDF)	-6.26E-10	-2.20E-09	-2.21E-09	-2.20E-09	-9.63E-10	-7.00E-10	5.40E-10	5.36E-10
URI ( $\Delta$ CDF)	-2.17E-08	-2.11E-08	-2.03E-08	-2.04E-08	-2.05E-08	-2.04E-08	-2.05E-08	-2.02E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-2.20E-08</b>	<b>-2.30E-08</b>	<b>-2.20E-08</b>	<b>-2.30E-08</b>	<b>-2.10E-08</b>	<b>-2.10E-08</b>	<b>-2.00E-08</b>	<b>-2.00E-08</b>



Licensee Comments: none



 [Link to Notes](#)

<b>Mitigating Systems Performance Index, High Pressure Injection System</b>	<b>2Q/14</b>	<b>3Q/14</b>	<b>4Q/14</b>	<b>1Q/15</b>	<b>2Q/15</b>	<b>3Q/15</b>	<b>4Q/15</b>	<b>1Q/16</b>
UAI (ΔCDF)	-8.30E-12	-8.24E-12	-8.34E-12	-8.24E-12	-8.24E-12	-8.24E-12	-8.23E-12	-8.26E-12
URI (ΔCDF)	-6.94E-09	-4.66E-09	-4.67E-09	-4.67E-09	-4.67E-09	-4.65E-09	-4.66E-09	-4.69E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-6.90E-09</b>	<b>-4.70E-09</b>	<b>-4.70E-09</b>	<b>-4.70E-09</b>	<b>-4.70E-09</b>	<b>-4.70E-09</b>	<b>-4.70E-09</b>	<b>-4.70E-09</b>

 [Link to Notes](#)

Licensee Comments:

3Q/14: ANO-1 HPI Reliability for P36A in August was revised. Oper Non-Test demands and Run Hours were originally reported under Test. This change does not affect the color of this indicator.



 [Link to Notes](#)

<b>Mitigating Systems Performance Index, Heat Removal System</b>	<b>2Q/14</b>	<b>3Q/14</b>	<b>4Q/14</b>	<b>1Q/15</b>	<b>2Q/15</b>	<b>3Q/15</b>	<b>4Q/15</b>	<b>1Q/16</b>
UAI (ΔCDF)	-3.29E-09	-4.02E-09	-4.59E-09	5.76E-10	-1.14E-09	-1.14E-09	-3.57E-09	-6.33E-09
URI (ΔCDF)	-2.17E-08	-2.06E-08	-2.01E-08	-2.22E-08	-2.22E-08	-2.14E-08	-2.19E-08	-2.22E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
<b>Indicator value</b>	<b>-2.50E-08</b>	<b>-2.50E-08</b>	<b>-2.50E-08</b>	<b>-2.20E-08</b>	<b>-2.30E-08</b>	<b>-2.30E-08</b>	<b>-2.50E-08</b>	<b>-2.90E-08</b>

 [Link to Notes](#)

Licensee Comments: none



 [Link to Notes](#)

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Mitigating Systems Performance Index, Residual Heat Removal System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI ( $\Delta$ CDF)	4.66E-08	4.73E-08	5.58E-08	5.09E-08	5.09E-08	5.06E-08	4.80E-08	5.48E-08
URI ( $\Delta$ CDF)	3.76E-08	3.73E-08	5.08E-08	3.66E-08	3.66E-08	3.86E-08	4.25E-08	-4.54E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	8.40E-08	8.50E-08	1.10E-07	8.80E-08	8.80E-08	8.90E-08	9.00E-08	9.40E-09



Licensee Comments: none



[Link to Notes](#)

Mitigating Systems Performance Index, Cooling Water Systems	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
UAI ( $\Delta$ CDF)	-3.39E-09	-3.39E-09	-3.39E-09	-3.39E-09	-3.39E-09	-3.39E-09	-3.39E-09	-3.39E-09
URI ( $\Delta$ CDF)	-1.71E-09	-1.67E-09	-4.48E-09	-4.48E-09	6.47E-08	6.47E-08	6.47E-08	6.47E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	-5.10E-09	-5.10E-09	-7.90E-09	-7.90E-09	6.10E-08	6.10E-08	6.10E-08	6.10E-08



Licensee Comments: none



[Link to Notes](#)

Reactor Coolant System Activity	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum activity	0.000084	0.000063	0.000090	0.000142	0.000103	0.000157	0.000160	0.000185	0.000144	0.000149	N/A	0.000049
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	1.0
<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>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>Reactor Coolant System Activity</b>	<b>4/15</b>	<b>5/15</b>	<b>6/15</b>	<b>7/15</b>	<b>8/15</b>	<b>9/15</b>	<b>10/15</b>	<b>11/15</b>	<b>12/15</b>	<b>1/16</b>	<b>2/16</b>	<b>3/16</b>	
Maximum activity	0.000053	0.000058	0.000216	0.000220	0.000208	0.000143	0.000140	0.000194	0.034700	0.000122	0.000153	0.000173	
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	1.0
<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>	<b>3.5</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>



Licensee Comments: none



[Link to Notes](#)

<b>Reactor Coolant System Leakage</b>	<b>4/14</b>	<b>5/14</b>	<b>6/14</b>	<b>7/14</b>	<b>8/14</b>	<b>9/14</b>	<b>10/14</b>	<b>11/14</b>	<b>12/14</b>	<b>1/15</b>	<b>2/15</b>	<b>3/15</b>
Maximum leakage	0.137	0.125	0.138	0.135	0.165	0.164	0.159	0.160	0.159	0.148	0.135	0.127
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>1.4</b>	<b>1.3</b>	<b>1.4</b>	<b>1.4</b>	<b>1.7</b>	<b>1.6</b>	<b>1.6</b>	<b>1.6</b>	<b>1.6</b>	<b>1.5</b>	<b>1.4</b>	<b>1.3</b>
<b>Reactor Coolant System Leakage</b>	<b>4/15</b>	<b>5/15</b>	<b>6/15</b>	<b>7/15</b>	<b>8/15</b>	<b>9/15</b>	<b>10/15</b>	<b>11/15</b>	<b>12/15</b>	<b>1/16</b>	<b>2/16</b>	<b>3/16</b>
Maximum leakage	0.100	0.125	0.137	0.163	0.168	0.177	0.175	0.182	0.198	0.132	0.128	0.116
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>1.0</b>	<b>1.3</b>	<b>1.4</b>	<b>1.6</b>	<b>1.7</b>	<b>1.8</b>	<b>1.8</b>	<b>1.8</b>	<b>2.0</b>	<b>1.3</b>	<b>1.3</b>	<b>1.2</b>



Licensee Comments: none



 [Link to Notes](#)

<b>Drill/Exercise Performance</b>	<b>2Q/14</b>	<b>3Q/14</b>	<b>4Q/14</b>	<b>1Q/15</b>	<b>2Q/15</b>	<b>3Q/15</b>	<b>4Q/15</b>	<b>1Q/16</b>
Successful opportunities	45.0	108.0	61.0	16.0	93.0	65.0	19.0	31.0
Total opportunities	45.0	111.0	61.0	16.0	98.0	67.0	19.0	32.0
<b>Indicator value</b>	<b>96.7%</b>	<b>96.7%</b>	<b>97.6%</b>	<b>97.7%</b>	<b>97.1%</b>	<b>97.2%</b>	<b>97.2%</b>	<b>97.6%</b>

 [Link to Notes](#)

Licensee Comments:

2Q/15: The June Drill/Exercise Performance is being revised to include two Shift Manager requalification exams. This change does not affect the color of the Drill/Exercise Performance indicator.

3Q/14: The September Drill / Exercise Performance was revised to included three notification communicator drills. This change dose not affect the color of this indicator.

2Q/14: Change to correct counting of the number of drills performed in the 2nd qtr. (Changed October 2014 does not affect the color of this indicator)



 [Link to Notes](#)

<b>ERO Drill Participation</b>	<b>2Q/14</b>	<b>3Q/14</b>	<b>4Q/14</b>	<b>1Q/15</b>	<b>2Q/15</b>	<b>3Q/15</b>	<b>4Q/15</b>	<b>1Q/16</b>
Participating Key personnel	118.0	119.0	116.0	113.0	109.0	106.0	103.0	103.0
Total Key personnel	118.0	119.0	116.0	113.0	109.0	106.0	103.0	103.0
<b>Indicator value</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

 [Link to Notes](#)

Licensee Comments: none



 [Link to Notes](#)

<b>Alert &amp; Notification System</b>	<b>2Q/14</b>	<b>3Q/14</b>	<b>4Q/14</b>	<b>1Q/15</b>	<b>2Q/15</b>	<b>3Q/15</b>	<b>4Q/15</b>	<b>1Q/16</b>
Successful siren-tests	147	147	146	147	147	147	146	147
Total sirens-tests	147	147	147	147	147	147	147	147
<b>Indicator value</b>	<b>99.8%</b>	<b>99.8%</b>	<b>99.7%</b>	<b>99.8%</b>	<b>99.8%</b>	<b>99.8%</b>	<b>99.8%</b>	<b>99.8%</b>



Licensee Comments: none



[Link to Notes](#)

<b>Occupational Exposure Control Effectiveness</b>	<b>2Q/14</b>	<b>3Q/14</b>	<b>4Q/14</b>	<b>1Q/15</b>	<b>2Q/15</b>	<b>3Q/15</b>	<b>4Q/15</b>	<b>1Q/16</b>
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



[Link to Notes](#)

<b>RETS/ODCM Radiological Effluent</b>	<b>2Q/14</b>	<b>3Q/14</b>	<b>4Q/14</b>	<b>1Q/15</b>	<b>2Q/15</b>	<b>3Q/15</b>	<b>4Q/15</b>	<b>1Q/16</b>
RETS/ODCM 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

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 1, 2016*