

# Crystal River 3

## 4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

### Unplanned Scrams per 7000 Critical Hrs



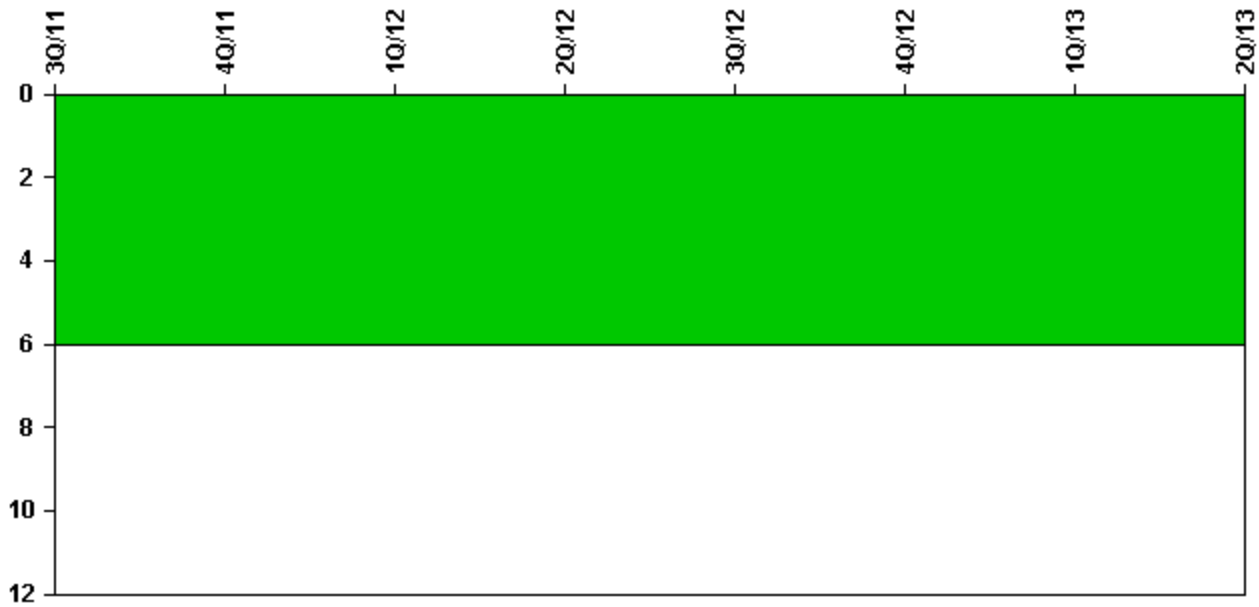
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

### Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned scrams	0	0	0	0	0	0	0	
Critical hours	0	0	0	0	0	0	0	
Indicator value	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Licensee Comments: none

### Unplanned Power Changes per 7000 Critical Hrs



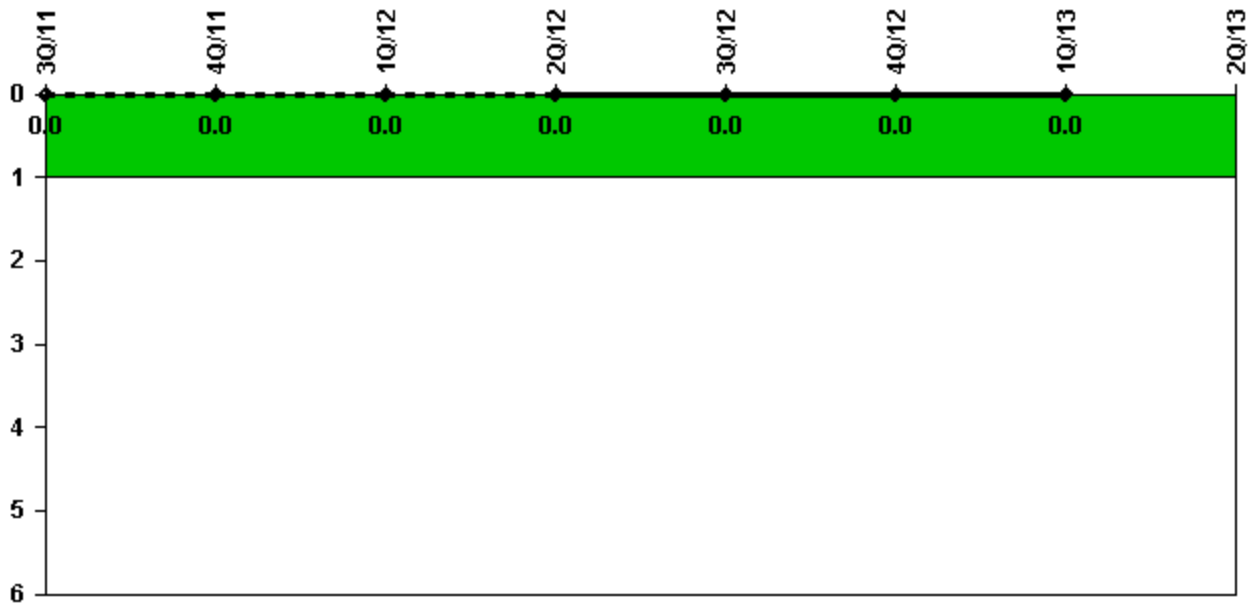
Thresholds: White > 6.0

#### Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned power changes	0	0	0	0	0	0	0	
Critical hours	0	0	0	0	0	0	0	
Indicator value	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Licensee Comments: none

### Unplanned Scrams with Complications



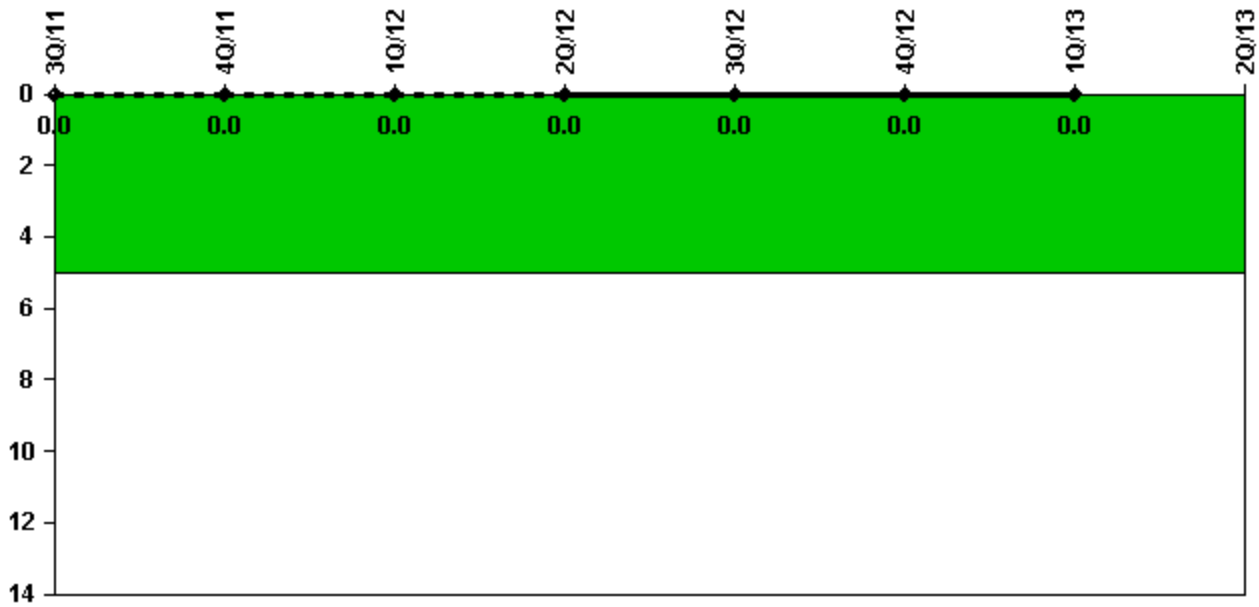
Thresholds: White > 1.0

#### Notes

Unplanned Scrams with Complications	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Scrams with complications	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>	

Licensee Comments: none

### Safety System Functional Failures (PWR)



Thresholds: White > 5.0

#### Notes

Safety System Functional Failures (PWR)	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Safety System Functional Failures	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>	

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/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI ( $\Delta$ CDF)	1.04E-09	-3.56E-09	-1.13E-09	-8.45E-09	0.00E+00	0.00E+00	0.00E+00	
URI ( $\Delta$ CDF)	-1.68E-09	-1.68E-09	-1.68E-09	-1.68E-09	-1.68E-09	-1.68E-09	4.92E-08	
PLE	NO	NO	NO	NO	NO	NO	NO	
Indicator value	-6.30E-10	-5.20E-09	-2.80E-09	-1.00E-08	-1.70E-09	-1.70E-09	4.90E-08	

Licensee Comments: none

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



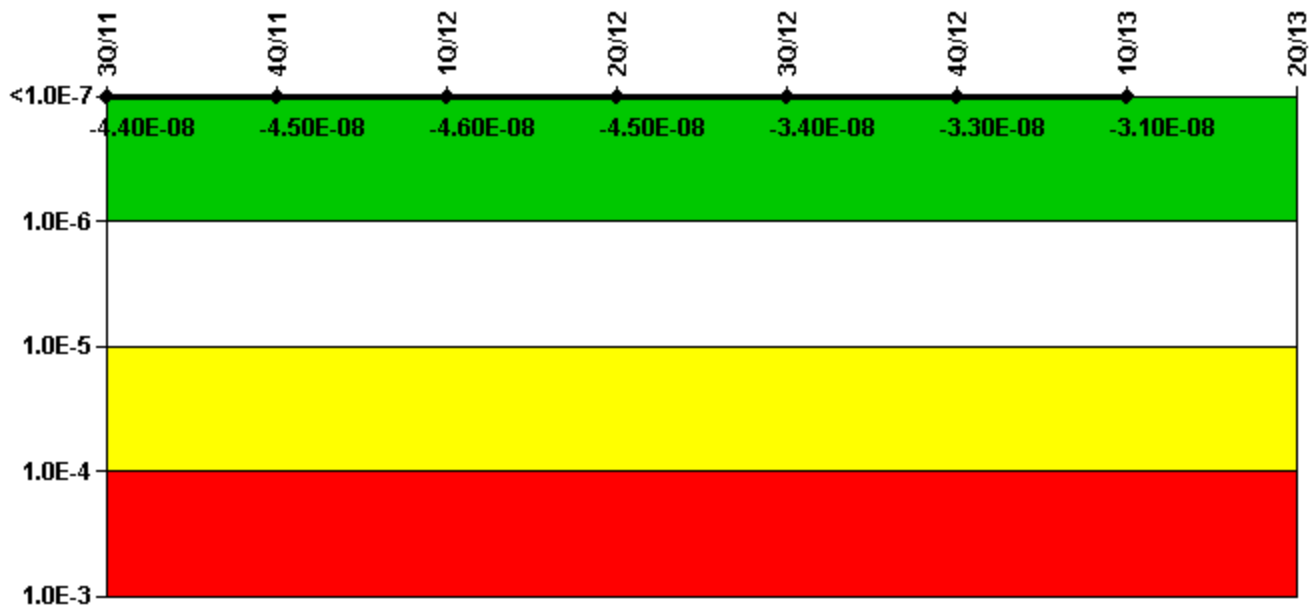
Thresholds: White >  $1.00E-6$  Yellow >  $1.00E-5$  Red >  $1.00E-4$

#### Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI ( $\Delta$ CDF)	$5.00E-09$	$2.48E-08$	$6.32E-08$	$6.16E-08$	$0.00E+00$	$0.00E+00$	$0.00E+00$	
URI ( $\Delta$ CDF)	$-9.87E-09$	$-9.83E-09$	$-9.78E-09$	$-9.74E-09$	$-9.69E-09$	$-9.65E-09$	$-9.60E-09$	
PLE	NO	NO	NO	NO	NO	NO	NO	
Indicator value	$-4.90E-09$	$1.50E-08$	$5.30E-08$	$5.20E-08$	$-9.70E-09$	$-9.60E-09$	$-9.60E-09$	

Licensee Comments: none

### Mitigating Systems Performance Index, Heat Removal System



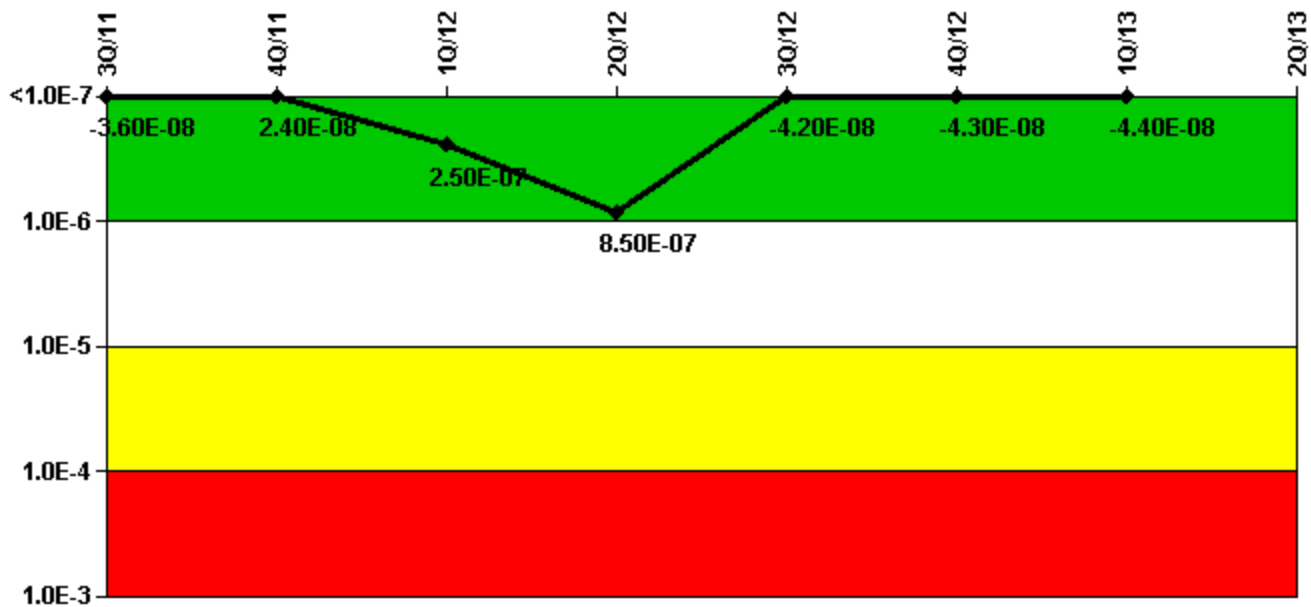
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI ( $\Delta$ CDF)	-3.52E-09	-5.87E-09	-9.19E-09	-9.19E-09	0.00E+00	0.00E+00	0.00E+00	
URI ( $\Delta$ CDF)	-4.02E-08	-3.88E-08	-3.73E-08	-3.58E-08	-3.42E-08	-3.26E-08	-3.09E-08	
PLE	NO	NO	NO	NO	NO	NO	NO	
Indicator value	-4.40E-08	-4.50E-08	-4.60E-08	-4.50E-08	-3.40E-08	-3.30E-08	-3.10E-08	

Licensee Comments: none

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



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

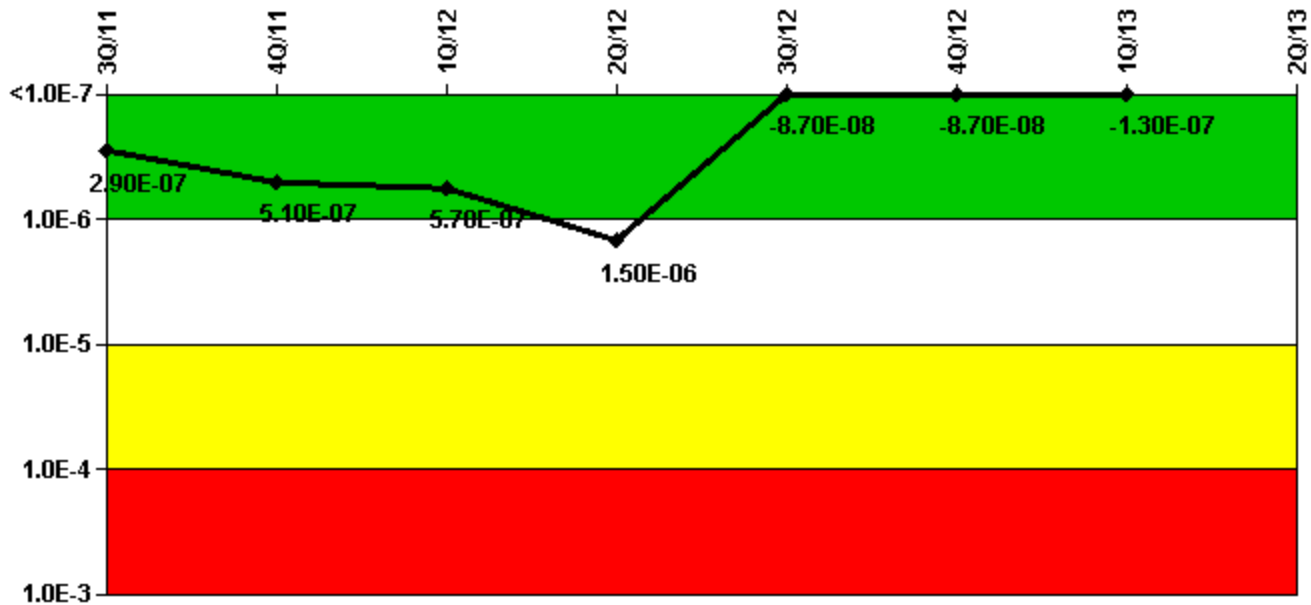
#### Notes

Mitigating Systems Performance Index, Residual Heat Removal System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI (ΔCDF)	-5.17E-10	6.19E-08	2.87E-07	8.93E-07	0.00E+00	0.00E+00	0.00E+00	
URI (ΔCDF)	-3.60E-08	-3.74E-08	-3.88E-08	-4.02E-08	-4.16E-08	-4.29E-08	-4.42E-08	
PLE	NO	NO	NO	NO	NO	NO	NO	
Indicator value	-3.60E-08	2.40E-08	2.50E-07	8.50E-07	-4.20E-08	-4.30E-08	-4.40E-08	

Licensee Comments: none



### Mitigating Systems Performance Index, Cooling Water Systems



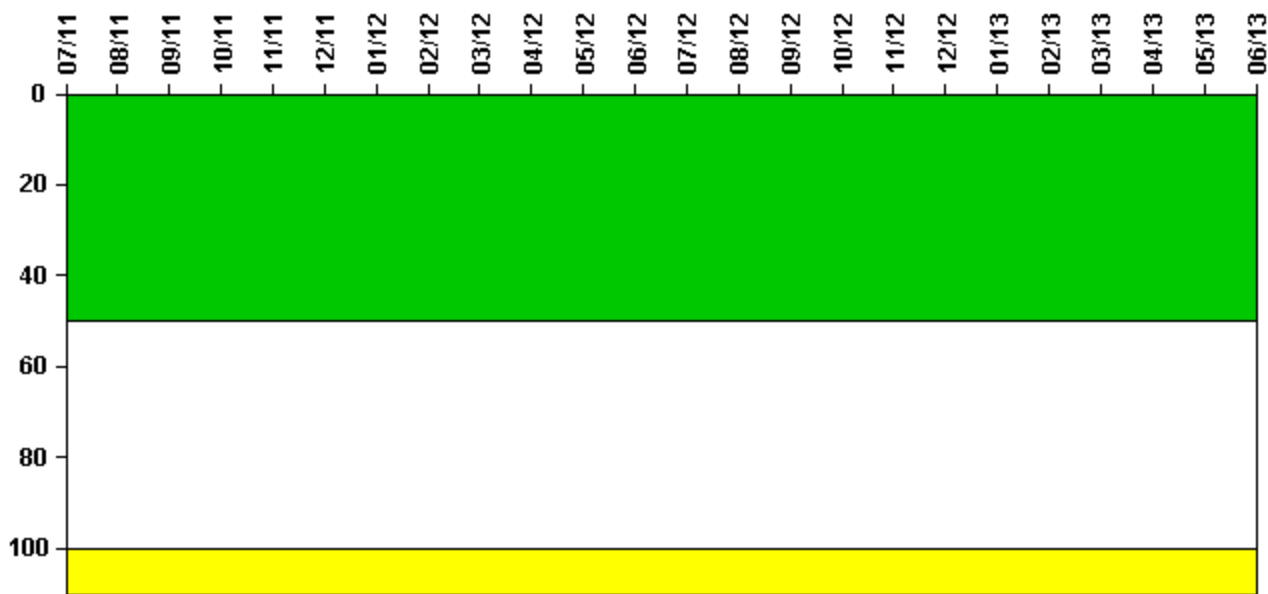
Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

#### Notes

Mitigating Systems Performance Index, Cooling Water Systems	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
UAI ( $\Delta$ CDF)	2.81E-07	4.98E-07	5.51E-07	1.47E-06	0.00E+00	0.00E+00	0.00E+00	
URI ( $\Delta$ CDF)	1.31E-08	1.62E-08	1.95E-08	2.29E-08	-8.65E-08	-8.65E-08	-1.35E-07	
PLE	NO	NO	NO	NO	NO	NO	NO	
Indicator value	2.90E-07	5.10E-07	5.70E-07	1.50E-06	-8.70E-08	-8.70E-08	-1.30E-07	

Licensee Comments: none

### Reactor Coolant System Activity



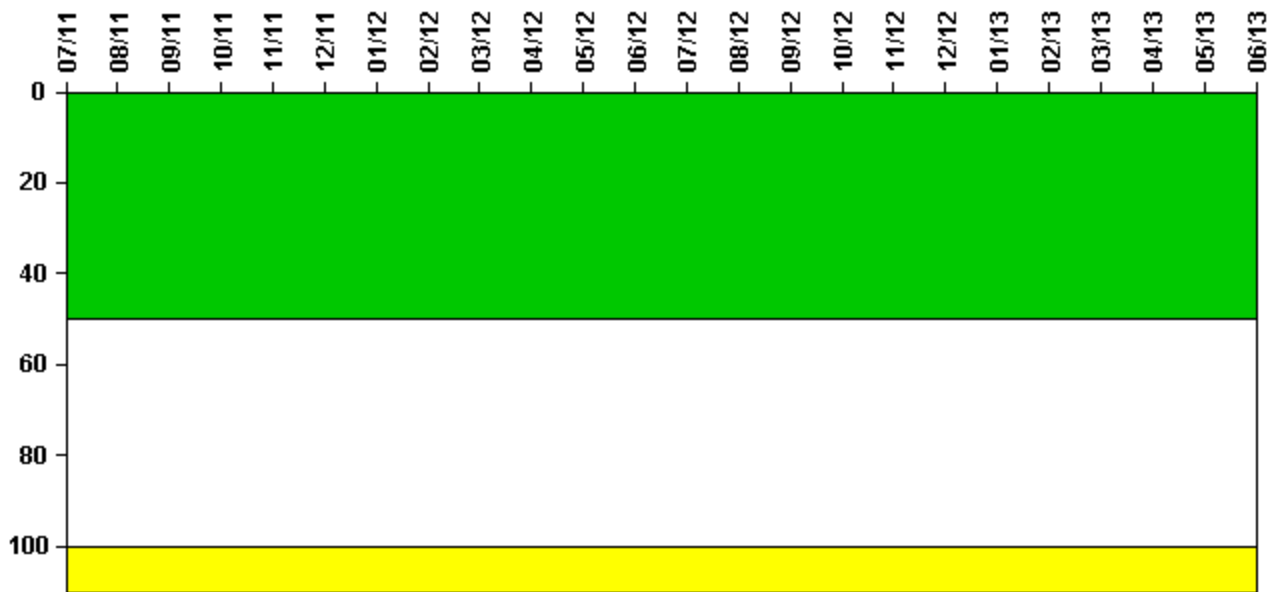
Thresholds: White > 50.0 Yellow > 100.0

#### Notes

Reactor Coolant System Activity	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum activity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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
<b>Indicator value</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>
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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0			
<b>Indicator value</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>	<b>N/A</b>			

Licensee Comments: none

### Reactor Coolant System Leakage



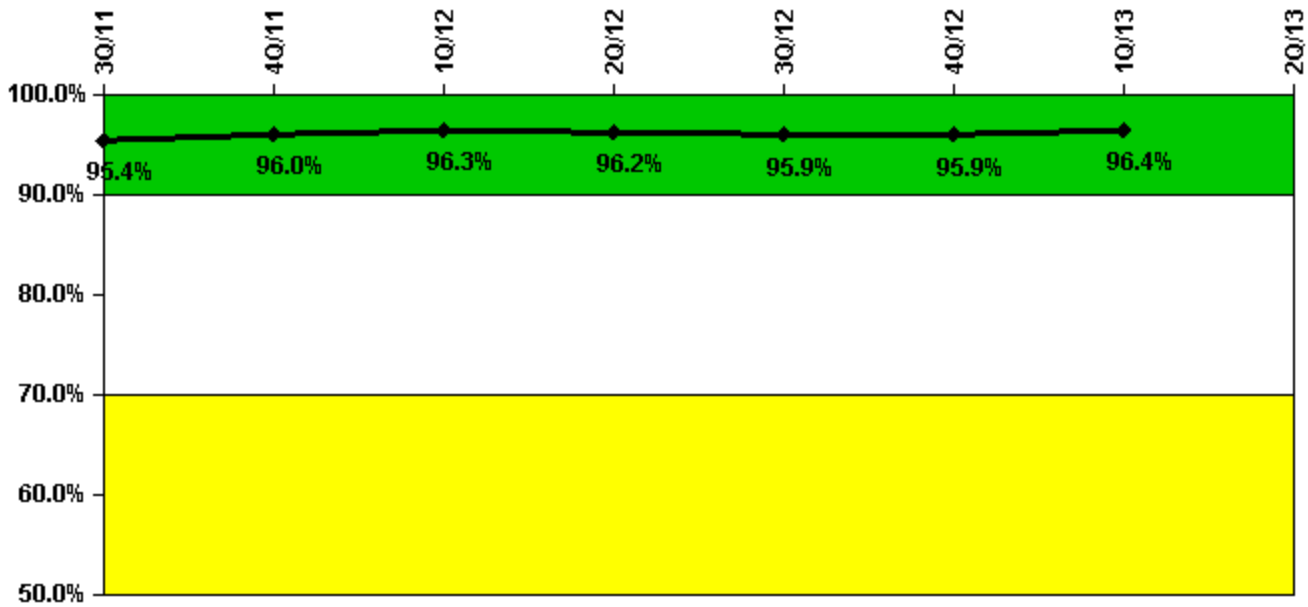
Thresholds: White > 50.0 Yellow > 100.0

**Notes**

Reactor Coolant System Leakage	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum leakage	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0			
Indicator value	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			

Licensee Comments: none

### Drill/Exercise Performance



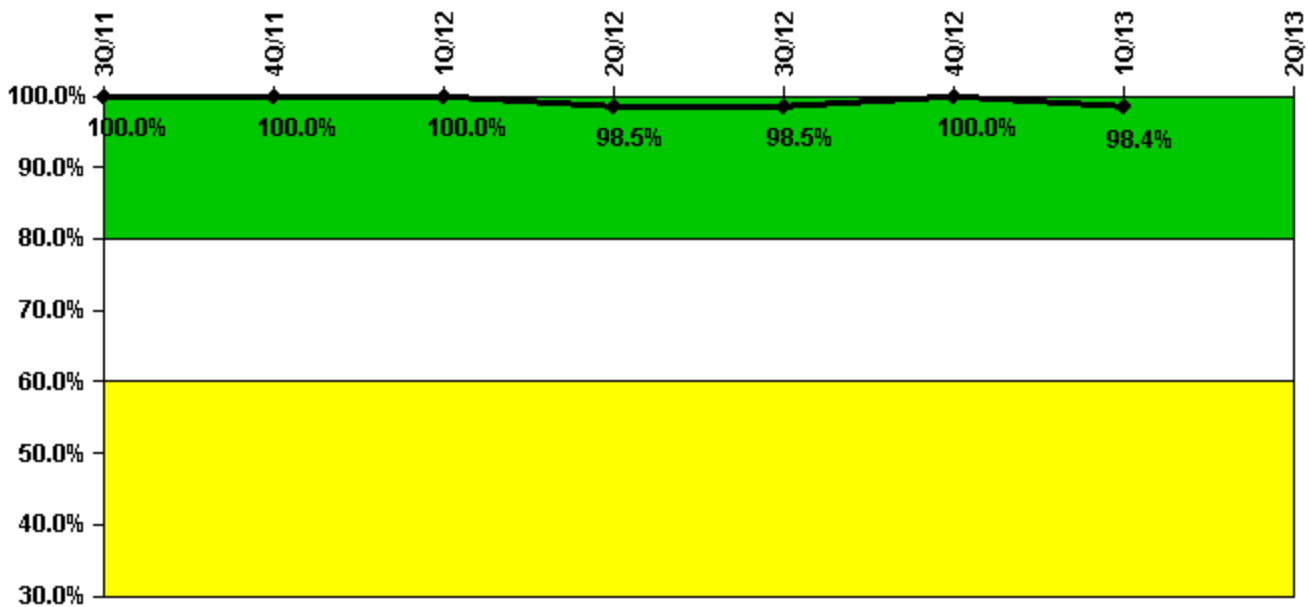
Thresholds: White < 90.0% Yellow < 70.0%

#### Notes

Drill/Exercise Performance	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful opportunities	24.0	30.0	29.0	39.0	20.0	28.0	6.0	
Total opportunities	24.0	30.0	30.0	41.0	21.0	30.0	6.0	
Indicator value	95.4%	96.0%	96.3%	96.2%	95.9%	95.9%	96.4%	

Licensee Comments: none

### ERO Drill Participation



**Thresholds:** White < 80.0% Yellow < 60.0%

#### Notes

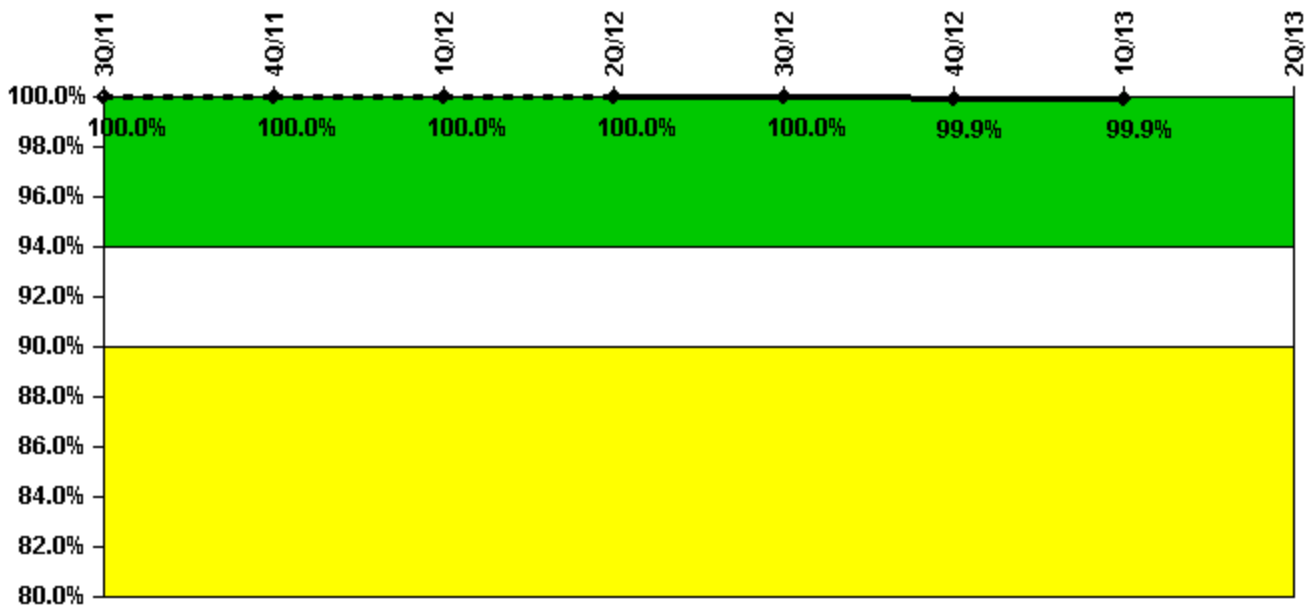
ERO Drill Participation	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Participating Key personnel	69.0	70.0	68.0	67.0	67.0	67.0	61.0	
Total Key personnel	69.0	70.0	68.0	68.0	68.0	67.0	62.0	
<b>Indicator value</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>98.5%</b>	<b>98.5%</b>	<b>100.0%</b>	<b>98.4%</b>	

#### Licensee Comments:

3Q/12: Due to an administrative error, the 3Q2012 ERO Drill Participation should have been 67 out of 68 instead of 68 out of 68. This change does not affect the color of the performance indicator.

2Q/12: Due to an administrative error, the 2Q2012 ERO Drill Participation should have been 67 out of 68 instead of 68 out of 68. This change does not affect the color of the performance indicator.

### Alert & Notification System



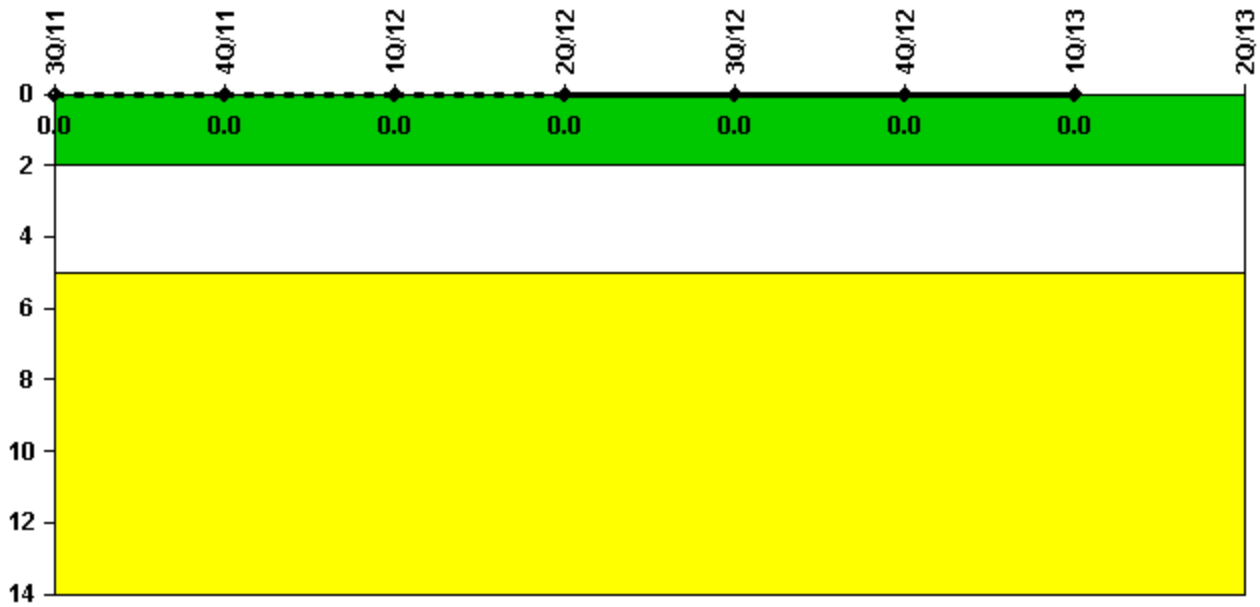
Thresholds: White < 94.0% Yellow < 90.0%

#### Notes

Alert & Notification System	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Successful siren-tests	1080	1028	1040	1040	1026	1039	1040	
Total sirens-tests	1080	1028	1040	1040	1028	1040	1040	
Indicator value	100.0%	100.0%	100.0%	100.0%	100.0%	99.9%	99.9%	

Licensee Comments: none

### Occupational Exposure Control Effectiveness



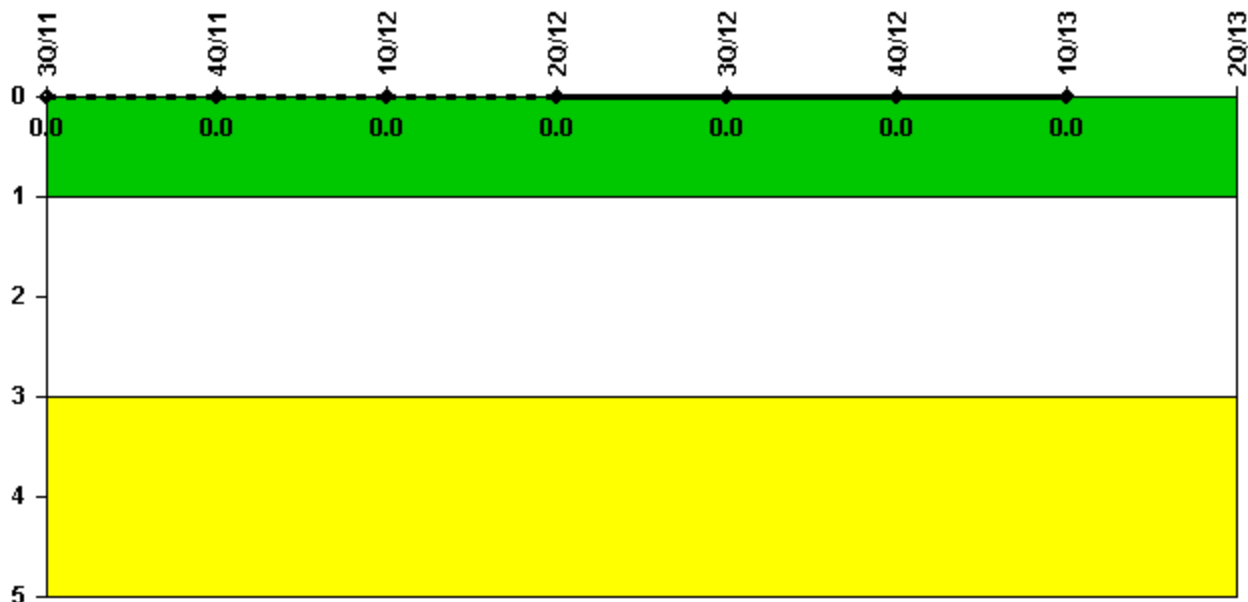
Thresholds: White > 2.0 Yellow > 5.0

#### Notes

Occupational Exposure Control Effectiveness	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
High radiation area occurrences	0	0	0	0	0	0	0	
Very high radiation area occurrences	0	0	0	0	0	0	0	
Unintended exposure occurrences	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>	

Licensee Comments: none

### RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

#### Notes

RETS/ODCM Radiological Effluent	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
RETS/ODCM occurrences	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>	

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*