North Anna 1

1Q/2000 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned scrams	0	0	0	0	0
Critical hours	2160.0	2183.0	2208.0	2209.0	1705.5
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Scrams	0	0	0	0	0
Indicator value				**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned power changes	0	0	1.0	0	0
Critical hours	2160.0	2183.0	2208.0	2209.0	1705.5
Indicator value	**0.9**	**0.9**	**0.8**	**0.8**	**0.8**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	12.80	11.81	29.68	64.46	14.43
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	95.52
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1815.70
Train 2					
Planned unavailable hours	11.25	11.45	7.83	70.57	12.27
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2088.50
Indicator value				**1.7%**	**1.9%**

Licensee Comments:

1Q/00: Current and historical data changed to exclude planned, TS approved, on-line, Allowed Outage Time EDG overhaul unavailability hours as discussed in NEI 99-02, Rev 0. Changes affecting 1Q/99 and 2Q/99 data had no affect on the Green color assignment.

2Q/99: Data revised to implement NEI 99-02, Rev 0, clarification allowing TS allowed outage time used to perform on-line, planned, EDG overhaul maintenance to be extracted from planned unavailable hours.

1Q/99: Data revised to implement NEI 99-02, Rev 0, clarification allowing TS allowed outage time used to perform on-line, planned, EDG overhaul maintenance to be extracted from planned unavailable hours.

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	3.95	0.97	0	10.29	0.58
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1720.20
Train 2					
Planned unavailable hours	1.70	0	0	2.43	1.02
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2034.78
Indicator value				**0.1%**	**0.1%**

Licensee Comments:

1Q/00: Current and historical data changed to reflect North Anna's unique design. Per NEI 99-02, Rev 0, App. D, Low Head Safety Injection unavailability hours have been extracted and included with the Residual Heat Removal System.

4Q/99: Historical data was revised to reflect North Anna's unique design. Post accident recirculation cooling, as provided by the Low Head Safety Injection and Recirculation Spray systems, has been extracted and included in the Residual Heat Removal system.

3Q/99: Historical data was revised to reflect North Anna's unique design. Post accident recirculation cooling, as provided by the Low Head Safety Injection and Recirculation Spray systems, has been extracted and included in the Residual Heat Removal system.

2Q/99: Historical data was revised to reflect North Anna's unique design. Post accident recirculation cooling, as provided by the Low Head Safety Injection and Recirculation Spray systems, has been extracted and included in the Residual Heat Removal system.

1Q/99: Historical data was revised to reflect North Anna's unique design. Post accident recirculation cooling, as provided by the Low Head Safety Injection and Recirculation Spray systems, has been extracted and included in the Residual Heat Removal system.

4Q/98: Historical data was revised to reflect North Anna's unique design. Post accident recirculation cooling, as provided by the Low Head Safety Injection and Recirculation Spray systems, has been extracted and included in the Residual Heat Removal system.

3Q/98: Historical data was revised to reflect North Anna's unique design. Post accident recirculation cooling, as provided by the Low Head Safety Injection and Recirculation Spray systems, has been extracted and included in the Residual Heat Removal system.

2Q/98: Historical data was revised to reflect North Anna's unique design. Post accident recirculation cooling, as provided by the Low Head Safety Injection and Recirculation Spray systems, has been extracted and included in the Residual Heat Removal system.

1Q/98: Historical data was revised to reflect North Anna's unique design. Post accident recirculation cooling, as provided by the Low Head Safety Injection and Recirculation Spray systems, has been extracted and included in the Residual Heat Removal system.

4Q/97: Historical data was revised to reflect North Anna's unique design. Post accident recirculation cooling, as provided by the Low Head Safety Injection and Recirculation Spray systems, has been extracted and included in the Residual Heat Removal system.

3Q/97: Historical data was revised to reflect North Anna's unique design. Post accident recirculation cooling, as provided by the Low Head Safety Injection and Recirculation Spray systems, has been extracted and included in the Residual Heat Removal system.

2Q/97: Historical data was revised to reflect North Anna's unique design. Post accident recirculation cooling, as provided by the Low Head Safety Injection and Recirculation Spray systems, has been extracted and included in the Residual Heat Removal system.

1Q/97: Historical data was revised to reflect North Anna's unique design. Post accident recirculation cooling, as provided by the Low Head Safety Injection and Recirculation Spray systems, has been extracted and included in the Residual Heat Removal system.

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	9.30	1.50	2.92	2.23	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1715.78
Train 2					
Planned unavailable hours	6.30	1.20	2.25	1.58	9.75
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1715.78
Train 3					
Planned unavailable hours	14.00	4.69	4.08	5.15	4.82
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1715.78
Indicator value				**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	2.58	1.20	8.10	0.90	11.40
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1720.20
Train 2					
Planned unavailable hours	4.60	0.30	0	26.20	21.02
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1720.20
Train 3					
Planned unavailable hours	0	0	0	0	2.58
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2034.78
Train 4					
Planned unavailable hours	0	0	0	0	3.67
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2034.78
Indicator value				**0.3%**	**0.3%**

Licensee Comments:

1Q/00: Current and historical data has been changed to reflect North Anna's unique design. Per NEI 99-02, Rev 0, App. D, Trains 1 & 2 reflect post-accident cooling provided by the Low Head Safety Injection System and Trains 3 & 4 reflect decay heat removal unavailability hours assigned to the Residual Heat Removal System. The changes made in the number of planned unavailable hours since 1Q/97 had no change on the Green indicator color assignment.

4Q/99: Current and historical data was revised to reflect North Anna's unique design. Trains 1 & 2 reflect post accident cooling as provided by the Low Head Safety Injection and Recirculation Spray systems. Trains 3 & 4 reflect decay heat removal as provided by the Residual Heat Removal system.

3Q/99: Current and historical data was revised to reflect North Anna's unique design. Trains 1 & 2 reflect post accident cooling as provided by the Low Head Safety Injection and Recirculation Spray systems. Trains 3 & 4 reflect decay heat removal as provided by the Residual Heat Removal system.

2Q/99: Current and historical data was revised to reflect North Anna's unique design. Trains 1 & 2 reflect post accident cooling as provided by the Low Head Safety Injection and Recirculation Spray systems. Trains 3 & 4 reflect decay heat removal as provided by the Residual Heat Removal system.

1Q/99: Current and historical data was revised to reflect North Anna's unique design. Trains 1 & 2 reflect post accident cooling as provided by the Low Head Safety Injection and Recirculation Spray systems. Trains 3 & 4 reflect decay heat removal as provided by the Residual Heat Removal system.

4Q/98: Current and historical data was revised to reflect North Anna's unique design. Trains 1 & 2 reflect post accident cooling as provided by the Low Head Safety Injection and Recirculation Spray systems. Trains 3 & 4 reflect decay heat removal as provided by the Residual Heat Removal system.

3Q/98: Current and historical data was revised to reflect North Anna's unique design. Trains 1 & 2 reflect post accident cooling as provided by the Low Head Safety Injection and Recirculation Spray systems. Trains 3 & 4 reflect decay heat removal as provided by the Residual Heat Removal system.

2Q/98: Current and historical data was revised to reflect North Anna's unique design. Trains 1 & 2 reflect post accident cooling as provided by the Low Head Safety injection and Recirculation Spray systems. Trains 3 & 4 reflect decay heat removal as provided by the Residual Heat Removal system.

1Q/98: Current and historical data was revised to reflect North Anna's unique design. Trains 1 & 2 reflect post accident cooling as provided by the Low Head Safety Injection and Recirculation Spray systems. Trains 3 & 4 reflect decay heat removal as provided by the Residual Heat Removal System.

4Q/97: Current and historical data was revised to reflect North Anna's unique design. Trains 1 & 2 reflect post accident cooling as provided by the Low Head Safety Injection and Recirculation Spray systems. Trains 3 & 4 reflect decay heat removal as provided by the Residual Heat Removal System.

3Q/97: Current and historical data was revised to reflect North Anna's unique design. Trains 1 & 2 reflect post-accident cooling as provided by the Low Head Safety Injection and Recirculation Spray Systems. Trains 3 & 4 reflect decay heat removal as provided by the Residual Heat Removal System.

2Q/97: Current and historical data was revised to reflect North Anna's unique design. Trains 1 & 2 reflect post-accident cooling as provided by the Low Head Safety Injection and Recirculation Spray Systems. Trains 3 & 4 reflect decay heat removal as provided by the Residual Heat Removal System.

1Q/97: Current and historical data was revised to reflect North Anna's unique design. Trains 1 & 2 reflect post-accident cooling as provided by the Low Head Safety Injection and Recirculation Spray Systems. Trains 3 & 4 reflect decay heat removal as provided by the Residual Heat Removal System.

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Safety System Functional Failures	0	2	1	0	0
Indicator value	**1**	**3**	**4**	**3**	**3**

Licensee Comments:

3Q/99: Further review determined LER 99-006, dated 09-28-99, should be identified even though it was not included in the NRC Safety System Failure Database for 3Q/99.

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum activity	0.002360	0.004100	0.002270	0.002470	0.002390	0.002720	0.002960	0.002860	0.003070	0.002920	0.003050	0.002040
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
Indicator value	**0.2**	**0.4**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum leakage	0.110	0.112	0.145	0.192	0.108	0.174	0.165	0.159	0.149	0.230	0.222	0.268
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	**1.1**	**1.1**	**1.5**	**1.9**	**1.1**	**1.7**	**1.7**	**1.6**	**1.5**	**2.3**	**2.2**	**2.7**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful opportunities	0	10.0	0	78.0	25.0
Total opportunities	0	10.0	0	78.0	25.0
Indicator value				**99.0%**	**99.2%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Participating Key personnel				128.0	125.0
Total Key personnel				130.0	129.0
Indicator value				**98.5%**	**96.9%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Successful siren-tests	383	385	382	382	382
Total sirens-tests	385	385	385	385	385
Indicator value	**99.7%**	**99.9%**	**99.7%**	**99.5%**	**99.4%**

Licensee Comments:

1Q/00: 1/2000 data revised to exclude 55 sirens that were part of a non-routine, unscheduled, Y2K siren poll. Deletion of these 55 sirens from the total number had no effect on the "Green" indicator.

1Q/00: 1/2000 data revised to exclude 55 sirens that were part of a non-routine, unscheduled, Y2K siren poll. Deletion of these 55 sirens from the total number had no effect on the "Green" indicator.

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
IDS compensatory hours	12.00	38.00	0	5.00	5.00
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	**0.035**	**0.037**	**0.014**	**0.003**	**0.003**

Licensee Comments:

1Q/00: NAPS has 1 CCTV which is used during outages only. Data reflects 617.7 hrs. of CCTV operation during the quarter.

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Program failures	0	0	0	0	0
Indicator value	**1**	**1**	**1**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Program Failures	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: April 1, 2002

North Anna 1

2Q/2000 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned scrams	0	0	0	0	1.0
Critical hours	2183.0	2208.0	2209.0	1705.5	1959.7
Indicator value	**0**	**0**	**0**	**0**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Scrams	0	0	0	0	0
Indicator value			**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Unplanned power changes	0	1.0	0	0	1.0
Critical hours	2183.0	2208.0	2209.0	1705.5	1959.7
Indicator value	**0.9**	**0.8**	**0.8**	**0.8**	**1.7**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	11.81	29.68	64.46	14.43	7.73
Unplanned unavailable hours	0	0	0	0	0.30
Fault exposure hours	0	0	0	95.52	3.92
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1815.70	2054.74
Train 2					
Planned unavailable hours	11.45	7.83	70.57	12.27	14.00
Unplanned unavailable hours	0	0	0	0	8.92
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2088.50	2179.08
Indicator value			**1.7%**	**1.9%**	**1.6%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0.97	0	10.29	0.58	6.52
Unplanned unavailable hours	0	0	0	0	39.11
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1720.20	2101.73
Train 2					
Planned unavailable hours	0	0	2.43	1.02	7.07
Unplanned unavailable hours	0	0	0	0	33.46
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2034.78	2132.08
Indicator value			**0.1%**	**0.1%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	1.50	2.92	2.23	0	1.17
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1715.78	2046.23
Train 2					
Planned unavailable hours	1.20	2.25	1.58	9.75	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1715.78	2046.23
Train 3					
Planned unavailable hours	4.69	4.08	5.15	4.82	7.98
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1715.78	2046.23
Indicator value			**0.2%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	1.20	8.10	0.90	11.40	8.03
Unplanned unavailable hours	0	0	0	0	28.95
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1720.20	2050.82
Train 2					
Planned unavailable hours	0.30	0	26.20	21.02	11.70
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1720.20	2050.82
Train 3					
Planned unavailable hours	0	0	0	2.58	0
Unplanned unavailable hours	0	0	0	0	12.62
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2034.78	2183.00
Train 4					
Planned unavailable hours	0	0	0	3.67	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2034.78	2183.00
Indicator value			**0.3%**	**0.3%**	**0.2%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Safety System Functional Failures	2	1	0	0	1
Indicator value	**3**	**4**	**3**	**3**	**2**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum activity	0.002470	0.002390	0.002720	0.002960	0.002860	0.003070	0.002920	0.003050	0.002040	0.000579	0.000632	0.000832
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
Indicator value	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum leakage	0.192	0.108	0.174	0.165	0.159	0.149	0.230	0.222	0.268	0.384	0.187	0.176
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	**1.9**	**1.1**	**1.7**	**1.7**	**1.6**	**1.5**	**2.3**	**2.2**	**2.7**	**3.8**	**1.9**	**1.8**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful opportunities	10.0	0	78.0	25.0	2.0
Total opportunities	10.0	0	78.0	25.0	2.0
Indicator value			**99.0%**	**99.2%**	**100.0%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Participating Key personnel			128.0	125.0	123.0
Total Key personnel			130.0	129.0	131.0
Indicator value			**98.5%**	**96.9%**	**93.9%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Successful siren-tests	385	382	382	382	384
Total sirens-tests	385	385	385	385	385
Indicator value	**99.9%**	**99.7%**	**99.5%**	**99.4%**	**99.4%**

Licensee Comments:

1Q/00: 1/2000 data revised to exclude 55 sirens that were part of a non-routine, unscheduled, Y2K siren poll. Deletion of these 55 sirens from the total number had no effect on the "Green" indicator.

1Q/00: 1/2000 data revised to exclude 55 sirens that were part of a non-routine, unscheduled, Y2K siren poll. Deletion of these 55 sirens from the total number had no effect on the "Green" indicator.

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
IDS compensatory hours	38.00	0	5.00	5.00	0
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	**0.037**	**0.014**	**0.003**	**0.003**	**0.001**

Licensee Comments:

2Q/00: Performance data reflects 116 hrs. of CCTV operation during this reporting period.

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Program failures	0	0	0	0	0
Indicator value	**1**	**1**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Program Failures	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Last Modified: April 1, 2002

North Anna 1

3Q/2000 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned scrams	0	0	0	1.0	0
Critical hours	2208.0	2209.0	1705.5	1959.7	2208.0
Indicator value	**0**	**0**	**0**	**0.9**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Scrams	0	0	0	0	0
Indicator value		**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Unplanned power changes	1.0	0	0	1.0	0
Critical hours	2208.0	2209.0	1705.5	1959.7	2208.0
Indicator value	**0.8**	**0.8**	**0.8**	**1.7**	**0.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	29.68	64.46	14.43	7.73	23.33
Unplanned unavailable hours	0	0	0	0.30	0
Fault exposure hours	0	0	95.52	3.92	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	1815.70	2054.74	2208.00
Train 2					
Planned unavailable hours	7.83	70.57	12.27	14.00	9.23
Unplanned unavailable hours	0	0	0	8.92	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2088.50	2179.08	2208.00
Indicator value		**1.7%**	**1.9%**	**1.6%**	**1.5%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	0	10.29	0.58	6.52	6.37
Unplanned unavailable hours	0	0	0	39.11	0.95
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	1720.20	2101.73	2208.00
Train 2					
Planned unavailable hours	0	2.43	1.02	7.07	2.73
Unplanned unavailable hours	0	0	0	33.46	0.87
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2034.78	2132.08	2208.00
Indicator value		**0.1%**	**0.1%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	2.92	2.23	0	1.17	1.10
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	1715.78	2046.23	2208.00
Train 2					
Planned unavailable hours	2.25	1.58	9.75	0	6.29
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	1715.78	2046.23	2208.00
Train 3					
Planned unavailable hours	4.08	5.15	4.82	7.98	13.92
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	1715.78	2046.23	2208.00
Indicator value		**0.2%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	8.10	0.90	11.40	8.03	37.79
Unplanned unavailable hours	0	0	0	28.95	2.55
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	1720.20	2050.82	2208.00
Train 2					
Planned unavailable hours	0	26.20	21.02	11.70	16.74
Unplanned unavailable hours	0	0	0	0	2.98
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	1720.20	2050.82	2208.00
Train 3					
Planned unavailable hours	0	0	2.58	0	0
Unplanned unavailable hours	0	0	0	12.62	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2034.78	2183.00	2208.00
Train 4					
Planned unavailable hours	0	0	3.67	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2034.78	2183.00	2208.00
Indicator value		**0.3%**	**0.3%**	**0.2%**	**0.3%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Safety System Functional Failures	1	0	0	1	0
Indicator value	**4**	**3**	**3**	**2**	**1**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.002960	0.002860	0.003070	0.002920	0.003050	0.002040	0.000579	0.000632	0.000832	0.000709	0.000717	0.000830
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
Indicator value	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.165	0.159	0.149	0.230	0.222	0.268	0.384	0.187	0.176	0.175	0.183	0.132
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	**1.7**	**1.6**	**1.5**	**2.3**	**2.2**	**2.7**	**3.8**	**1.9**	**1.8**	**1.8**	**1.8**	**1.3**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful opportunities	0	78.0	25.0	2.0	4.0
Total opportunities	0	78.0	25.0	2.0	4.0
Indicator value		**99.0%**	**99.2%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Participating Key personnel		128.0	125.0	123.0	121.0
Total Key personnel		130.0	129.0	131.0	128.0
Indicator value		**98.5%**	**96.9%**	**93.9%**	**94.5%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful siren-tests	382	382	382	384	380
Total sirens-tests	385	385	385	385	385
Indicator value	**99.7%**	**99.5%**	**99.4%**	**99.4%**	**99.2%**

Licensee Comments:

3Q/00: 9/2000 data revised to exclude 55 sirens that were part of an unscheduled, post maintenance test. Deletion of these 55 sirens from the total number had no effect on the "green" indicator.

1Q/00: 1/2000 data revised to exclude 55 sirens that were part of a non-routine, unscheduled, Y2K siren poll. Deletion of these 55 sirens from the total number had no effect on the "Green" indicator.

1Q/00: 1/2000 data revised to exclude 55 sirens that were part of a non-routine, unscheduled, Y2K siren poll. Deletion of these 55 sirens from the total number had no effect on the "Green" indicator.

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
IDS compensatory hours	0	5.00	5.00	0	0
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	**0.014**	**0.003**	**0.003**	**0.001**	**0.001**

Licensee Comments:

3Q/00: Performance reflects zero (0) hours of CCTV camera operation during this reporting period.

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Program failures	0	0	0	0	0
Indicator value	**1**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Program Failures	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: March 29, 2002

North Anna 1

4Q/2000 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned scrams	0	0	1.0	0	0
Critical hours	2209.0	1705.5	1959.7	2208.0	2209.0
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Scrams	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned power changes	0	0	1.0	0	0
Critical hours	2209.0	1705.5	1959.7	2208.0	2209.0
Indicator value	**0.8**	**0.8**	**1.7**	**0.9**	**0.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	64.46	14.43	7.73	23.33	45.15
Unplanned unavailable hours	0	0	0.30	0	0
Fault exposure hours	0	95.52	3.92	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	1815.70	2054.74	2208.00	2209.00
Train 2					
Planned unavailable hours	70.57	12.27	14.00	9.23	48.38
Unplanned unavailable hours	0	0	8.92	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2088.50	2179.08	2208.00	2209.00
Indicator value	**1.7%**	**1.9%**	**1.6%**	**1.5%**	**1.3%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	10.29	0.58	6.52	6.37	4.08
Unplanned unavailable hours	0	0	39.11	0.95	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	1720.20	2101.73	2208.00	2209.00
Train 2					
Planned unavailable hours	2.43	1.02	7.07	2.73	3.80
Unplanned unavailable hours	0	0	33.46	0.87	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2034.78	2132.08	2208.00	2209.00
Indicator value	**0.1%**	**0.1%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	2.23	0	1.17	1.10	1.87
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	1715.78	2046.23	2208.00	2209.00
Train 2					
Planned unavailable hours	1.58	9.75	0	6.29	11.83
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	1715.78	2046.23	2208.00	2209.00
Train 3					
Planned unavailable hours	5.15	4.82	7.98	13.92	5.00
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	1715.78	2046.23	2208.00	2209.00
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	0.90	11.40	8.03	37.79	5.68
Unplanned unavailable hours	0	0	28.95	2.55	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	1720.20	2050.82	2208.00	2209.00
Train 2					
Planned unavailable hours	26.20	21.02	11.70	16.74	3.57
Unplanned unavailable hours	0	0	0	2.98	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	1720.20	2050.82	2208.00	2209.00
Train 3					
Planned unavailable hours	0	2.58	0	0	0
Unplanned unavailable hours	0	0	12.62	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2034.78	2183.00	2208.00	2209.00
Train 4					
Planned unavailable hours	0	3.67	0	0	0
Unplanned unavailable hours	0	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2034.78	2183.00	2208.00	2209.00
Indicator value	**0.3%**	**0.3%**	**0.2%**	**0.3%**	**0.3%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Safety System Functional Failures	0	0	1	0	0
Indicator value	**3**	**3**	**2**	**1**	**1**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum activity	0.002920	0.003050	0.002040	0.000579	0.000632	0.000832	0.000709	0.000717	0.000830	0.000777	0.001460	0.000833
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
Indicator value	**0.3**	**0.3**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage	0.230	0.222	0.268	0.384	0.187	0.176	0.175	0.183	0.132	0.160	0.182	0.189
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	**2.3**	**2.2**	**2.7**	**3.8**	**1.9**	**1.8**	**1.8**	**1.8**	**1.3**	**1.6**	**1.8**	**1.9**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Successful opportunities	78.0	25.0	2.0	4.0	18.0
Total opportunities	78.0	25.0	2.0	4.0	18.0
Indicator value	**99.0%**	**99.2%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Participating Key personnel	128.0	125.0	123.0	121.0	115.0
Total Key personnel	130.0	129.0	131.0	128.0	128.0
Indicator value	**98.5%**	**96.9%**	**93.9%**	**94.5%**	**89.8%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Successful siren-tests	382	382	384	380	384
Total sirens-tests	385	385	385	385	385
Indicator value	**99.5%**	**99.4%**	**99.4%**	**99.2%**	**99.4%**

Licensee Comments:

3Q/00: 9/2000 data revised to exclude 55 sirens that were part of an unscheduled, post maintenance test. Deletion of these 55 sirens from the total number had no effect on the "green" indicator.

1Q/00: 1/2000 data revised to exclude 55 sirens that were part of a non-routine, unscheduled, Y2K siren poll. Deletion of these 55 sirens from the total number had no effect on the "Green" indicator.

1Q/00: 1/2000 data revised to exclude 55 sirens that were part of a non-routine, unscheduled, Y2K siren poll. Deletion of these 55 sirens from the total number had no effect on the "Green" indicator.

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
High radiation area occurrences	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
RETS/ODCM occurrences	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
IDS compensatory hours	5.00	5.00	0	0	10.30
CCTV compensatory hours	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0
Index Value	**0.003**	**0.003**	**0.001**	**0.001**	**0.001**

Licensee Comments:

4Q/00: Performance reflects zero (0) hours of CCTV camera operation during this reporting period.

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Program failures	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Program Failures	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Last Modified: March 28, 2002

North Anna 1

1Q/2001 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned scrams	0	0	1.0	0	0	0
Critical hours	2209.0	1705.5	1959.7	2208.0	2209.0	2160.0
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.8**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Scrams	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned power changes	0	0	1.0	0	0	0
Critical hours	2209.0	1705.5	1959.7	2208.0	2209.0	2160.0
Indicator value	**0.8**	**0.8**	**1.7**	**0.9**	**0.9**	**0.8**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	64.46	14.43	7.73	23.33	45.15	8.10
Unplanned unavailable hours	0	0	0.30	0	0	0
Fault exposure hours	0	95.52	3.92	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	1815.70	2054.74	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	70.57	12.27	14.00	9.23	48.38	6.32
Unplanned unavailable hours	0	0	8.92	0	0	34.00
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2088.50	2179.08	2208.00	2209.00	2160.00
Indicator value	**1.7%**	**1.9%**	**1.6%**	**1.5%**	**1.3%**	**1.3%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	10.29	0.58	6.52	6.37	4.08	0.93
Unplanned unavailable hours	0	0	39.11	0.95	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	1720.20	2101.73	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	2.43	1.02	7.07	2.73	3.80	0.12
Unplanned unavailable hours	0	0	33.46	0.87	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2034.78	2132.08	2208.00	2209.00	2160.00
Indicator value	**0.1%**	**0.1%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	2.23	0	1.17	1.10	1.87	14.02
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	1715.78	2046.23	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	1.58	9.75	0	6.29	11.83	0.48
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	1715.78	2046.23	2208.00	2209.00	2160.00
Train 3						
Planned unavailable hours	5.15	4.82	7.98	13.92	5.00	3.97
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	1715.78	2046.23	2208.00	2209.00	2160.00
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0.90	11.40	8.03	37.79	5.68	4.72
Unplanned unavailable hours	0	0	28.95	2.55	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	1720.20	2050.82	2208.00	2209.00	2160.00
Train 2						
Planned unavailable hours	26.20	21.02	11.70	16.74	3.57	9.24
Unplanned unavailable hours	0	0	0	2.98	0	5.62
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	1720.20	2050.82	2208.00	2209.00	2160.00
Train 3						
Planned unavailable hours	0	2.58	0	0	0	0
Unplanned unavailable hours	0	0	12.62	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2034.78	2183.00	2208.00	2209.00	2160.00
Train 4						
Planned unavailable hours	0	3.67	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2034.78	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.3%**	**0.3%**	**0.2%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Safety System Functional Failures	0	0	1	0	0	0
Indicator value	**3**	**3**	**2**	**1**	**1**	**1**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.002960	0.002860	0.003070	0.002920	0.003050	0.002040	0.000579	0.000632	0.000832	0.000709	0.000717	0.000830
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
Indicator value	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.000777	0.001460	0.000833	0.000854	0.000880	0.000999
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.165	0.159	0.149	0.230	0.222	0.268	0.384	0.187	0.176	0.175	0.183	0.132
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	**1.7**	**1.6**	**1.5**	**2.3**	**2.2**	**2.7**	**3.8**	**1.9**	**1.8**	**1.8**	**1.8**	**1.3**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	0.160	0.182	0.189	0.179	0.159	0.246
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.6**	**1.8**	**1.9**	**1.8**	**1.6**	**2.5**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful opportunities	78.0	25.0	2.0	4.0	18.0	30.0
Total opportunities	78.0	25.0	2.0	4.0	18.0	35.0
Indicator value	**99.0%**	**99.2%**	**100.0%**	**100.0%**	**100.0%**	**97.1%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Participating Key personnel	128.0	125.0	123.0	121.0	115.0	98.0
Total Key personnel	130.0	129.0	131.0	128.0	128.0	104.0
Indicator value	**98.5%**	**96.9%**	**93.9%**	**94.5%**	**89.8%**	**94.2%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful siren-tests	382	382	384	380	384	414
Total sirens-tests	385	385	385	385	385	427
Indicator value	**99.5%**	**99.4%**	**99.4%**	**99.2%**	**99.4%**	**98.7%**

Licensee Comments:

1Q/01: 2/2001 data over-reported; Successful siren tests were 171 vs 232; Total tested 183 vs 244. This revision had no effect on GREEN color assignment.

1Q/00: 1/2000 data revised to exclude 55 sirens that were part of a non-routine, unscheduled, Y2K siren poll. Deletion of these 55 sirens from the total number had no effect on the "Green" indicator.

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
High radiation area occurrences	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
RETS/ODCM occurrences	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
IDS compensatory hours	5.00	5.00	0	0	10.30	6.20
CCTV compensatory hours	0	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.003**	**0.003**	**0.001**	**0.001**	**0.001**	**0.001**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Program failures	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Program Failures	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Action Matrix Summary | Reactor Oversight Process

Last Modified: March 28, 2002

North Anna 1

2Q/2001 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned scrams	0	0	1.0	0	0	0	0
Critical hours	2209.0	1705.5	1959.7	2208.0	2209.0	2160.0	2183.0
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.8**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Scrams	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned power changes	0	0	1.0	0	0	0	0
Critical hours	2209.0	1705.5	1959.7	2208.0	2209.0	2160.0	2183.0
Indicator value	**0.8**	**0.8**	**1.7**	**0.9**	**0.9**	**0.8**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	64.46	14.43	7.73	23.33	45.15	8.10	60.71
Unplanned unavailable hours	0	0	0.30	0	0	0	5.33
Fault exposure hours	0	95.52	3.92	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	1815.70	2054.74	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	70.57	12.27	14.00	9.23	48.38	6.32	10.40
Unplanned unavailable hours	0	0	8.92	0	0	34.00	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2088.50	2179.08	2208.00	2209.00	2160.00	2183.00
Indicator value	**1.7%**	**1.9%**	**1.6%**	**1.5%**	**1.3%**	**1.3%**	**1.3%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	10.29	0.58	6.52	6.37	4.08	0.93	0.79
Unplanned unavailable hours	0	0	39.11	0.95	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	1720.20	2101.73	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	2.43	1.02	7.07	2.73	3.80	0.12	3.22
Unplanned unavailable hours	0	0	33.46	0.87	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2034.78	2132.08	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.1%**	**0.1%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	2.23	0	1.17	1.10	1.87	14.02	2.28
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	1715.78	2046.23	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	1.58	9.75	0	6.29	11.83	0.48	1.58
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	1715.78	2046.23	2208.00	2209.00	2160.00	2183.00
Train 3							
Planned unavailable hours	5.15	4.82	7.98	13.92	5.00	3.97	4.18
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	1715.78	2046.23	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	0.90	11.40	8.03	37.79	5.68	4.72	14.69
Unplanned unavailable hours	0	0	28.95	2.55	0	0	1.40
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	1720.20	2050.82	2208.00	2209.00	2160.00	2183.00
Train 2							
Planned unavailable hours	26.20	21.02	11.70	16.74	3.57	9.24	4.07
Unplanned unavailable hours	0	0	0	2.98	0	5.62	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	1720.20	2050.82	2208.00	2209.00	2160.00	2183.00
Train 3							
Planned unavailable hours	0	2.58	0	0	0	0	8.50
Unplanned unavailable hours	0	0	12.62	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2034.78	2183.00	2208.00	2209.00	2160.00	2183.00
Train 4							
Planned unavailable hours	0	3.67	0	0	0	0	14.08
Unplanned unavailable hours	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2034.78	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.3%**	**0.3%**	**0.2%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Safety System Functional Failures	0	0	1	0	0	0	0
Indicator value	**3**	**3**	**2**	**1**	**1**	**1**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.002960	0.002860	0.003070	0.002920	0.003050	0.002040	0.000579	0.000632	0.000832	0.000709	0.000717	0.000830
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
Indicator value	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.000777	0.001460	0.000833	0.000854	0.000880	0.000999	0.001170	0.001150	0.001410
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.165	0.159	0.149	0.230	0.222	0.268	0.384	0.187	0.176	0.175	0.183	0.132
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	**1.7**	**1.6**	**1.5**	**2.3**	**2.2**	**2.7**	**3.8**	**1.9**	**1.8**	**1.8**	**1.8**	**1.3**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	0.160	0.182	0.189	0.179	0.159	0.246	0.145	0.169	0.165
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.6**	**1.8**	**1.9**	**1.8**	**1.6**	**2.5**	**1.5**	**1.7**	**1.7**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Successful opportunities	78.0	25.0	2.0	4.0	18.0	30.0	18.0
Total opportunities	78.0	25.0	2.0	4.0	18.0	35.0	18.0
Indicator value	**99.0%**	**99.2%**	**100.0%**	**100.0%**	**100.0%**	**97.1%**	**97.2%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Participating Key personnel	128.0	125.0	123.0	121.0	115.0	98.0	101.0
Total Key personnel	130.0	129.0	131.0	128.0	128.0	104.0	106.0
Indicator value	**98.5%**	**96.9%**	**93.9%**	**94.5%**	**89.8%**	**94.2%**	**95.3%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Successful siren-tests	382	382	384	380	384	414	427
Total sirens-tests	385	385	385	385	385	427	429
Indicator value	**99.5%**	**99.4%**	**99.4%**	**99.2%**	**99.4%**	**98.7%**	**98.7%**

Licensee Comments:

1Q/01: 2/2001 data over-reported; Successful siren tests were 171 vs 232; Total tested 183 vs 244. This revision had no effect on GREEN color assignment.

1Q/00: 1/2000 data revised to exclude 55 sirens that were part of a non-routine, unscheduled, Y2K siren poll. Deletion of these 55 sirens from the total number had no effect on the "Green" indicator.

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
RETS/ODCM occurrences	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
IDS compensatory hours	5.00	5.00	0	0	10.30	6.20	0
CCTV compensatory hours	0	0	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.003**	**0.003**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**

Licensee Comments:

2Q/01: Performance data reflects zero hours of CCTV camera operation during this reporting period.

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Program failures	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Program Failures	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Action Matrix Summary | Reactor Oversight Process

Last Modified: March 27, 2002

North Anna 1

3Q/2001 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2209.0	1705.5	1959.7	2208.0	2209.0	2160.0	2183.0	1681.6
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.8**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	2209.0	1705.5	1959.7	2208.0	2209.0	2160.0	2183.0	1681.6
Indicator value	**0.8**	**0.8**	**1.7**	**0.9**	**0.9**	**0.8**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	64.46	14.43	7.73	23.33	45.15	8.10	60.71	12.97
Unplanned unavailable hours	0	0	0.30	0	0	0	5.33	0
Fault exposure hours	0	95.52	3.92	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1815.70	2054.74	2208.00	2209.00	2160.00	2183.00	1952.00
Train 2								
Planned unavailable hours	70.57	12.27	14.00	9.23	48.38	6.32	10.40	9.01
Unplanned unavailable hours	0	0	8.92	0	0	34.00	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2088.50	2179.08	2208.00	2209.00	2160.00	2183.00	1952.00
Indicator value	**1.7%**	**1.9%**	**1.6%**	**1.5%**	**1.3%**	**1.3%**	**1.3%**	**1.3%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	10.29	0.58	6.52	6.37	4.08	0.93	0.79	3.53
Unplanned unavailable hours	0	0	39.11	0.95	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1720.20	2101.73	2208.00	2209.00	2160.00	2183.00	1693.25
Train 2								
Planned unavailable hours	2.43	1.02	7.07	2.73	3.80	0.12	3.22	1.30
Unplanned unavailable hours	0	0	33.46	0.87	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2034.78	2132.08	2208.00	2209.00	2160.00	2183.00	1693.25
Indicator value	**0.1%**	**0.1%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	2.23	0	1.17	1.10	1.87	14.02	2.28	1.12
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1715.78	2046.23	2208.00	2209.00	2160.00	2183.00	1690.82
Train 2								
Planned unavailable hours	1.58	9.75	0	6.29	11.83	0.48	1.58	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1715.78	2046.23	2208.00	2209.00	2160.00	2183.00	1690.82
Train 3								
Planned unavailable hours	5.15	4.82	7.98	13.92	5.00	3.97	4.18	2.93
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1715.78	2046.23	2208.00	2209.00	2160.00	2183.00	1690.82
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	0.90	11.40	8.03	37.79	5.68	4.72	14.69	15.00
Unplanned unavailable hours	0	0	28.95	2.55	0	0	1.40	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1720.20	2050.82	2208.00	2209.00	2160.00	2183.00	1695.67
Train 2								
Planned unavailable hours	26.20	21.02	11.70	16.74	3.57	9.24	4.07	0.63
Unplanned unavailable hours	0	0	0	2.98	0	5.62	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1720.20	2050.82	2208.00	2209.00	2160.00	2183.00	1695.67
Train 3								
Planned unavailable hours	0	2.58	0	0	0	0	8.50	1.67
Unplanned unavailable hours	0	0	12.62	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2034.78	2183.00	2208.00	2209.00	2160.00	2183.00	2022.20
Train 4								
Planned unavailable hours	0	3.67	0	0	0	0	14.08	1.58
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2034.78	2183.00	2208.00	2209.00	2160.00	2183.00	2022.20
Indicator value	**0.3%**	**0.3%**	**0.2%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Safety System Functional Failures	0	0	1	0	0	0	0	0
Indicator value	**3**	**3**	**2**	**1**	**1**	**1**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.002960	0.002860	0.003070	0.002920	0.003050	0.002040	0.000579	0.000632	0.000832	0.000709	0.000717	0.000830
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
Indicator value	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum activity	0.000777	0.001460	0.000833	0.000854	0.000880	0.000999	0.001170	0.001150	0.001410	0.001580	0.001250	0.001380
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum leakage	0.165	0.159	0.149	0.230	0.222	0.268	0.384	0.187	0.176	0.175	0.183	0.132
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	**1.7**	**1.6**	**1.5**	**2.3**	**2.2**	**2.7**	**3.8**	**1.9**	**1.8**	**1.8**	**1.8**	**1.3**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01
Maximum leakage	0.160	0.182	0.189	0.179	0.159	0.246	0.145	0.169	0.165	0.163	0.169	0.171
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	**1.6**	**1.8**	**1.9**	**1.8**	**1.6**	**2.5**	**1.5**	**1.7**	**1.7**	**1.6**	**1.7**	**1.7**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Successful opportunities	78.0	25.0	2.0	4.0	18.0	30.0	18.0	16.0
Total opportunities	78.0	25.0	2.0	4.0	18.0	35.0	18.0	16.0
Indicator value	**99.0%**	**99.2%**	**100.0%**	**100.0%**	**100.0%**	**97.1%**	**97.2%**	**97.4%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Participating Key personnel	128.0	125.0	123.0	121.0	115.0	98.0	101.0	101.0
Total Key personnel	130.0	129.0	131.0	128.0	128.0	104.0	106.0	104.0
Indicator value	**98.5%**	**96.9%**	**93.9%**	**94.5%**	**89.8%**	**94.2%**	**95.3%**	**97.1%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Successful siren-tests	382	382	384	380	384	414	427	431
Total sirens-tests	385	385	385	385	385	427	429	434
Indicator value	**99.5%**	**99.4%**	**99.4%**	**99.2%**	**99.4%**	**98.7%**	**98.7%**	**98.9%**

Licensee Comments:

1Q/01: 2/2001 data over-reported; Successful siren tests were 171 vs 232; Total tested 183 vs 244. This revision had no effect on GREEN color assignment.

1Q/00: 1/2000 data revised to exclude 55 sirens that were part of a non-routine, unscheduled, Y2K siren poll. Deletion of these 55 sirens from the total number had no effect on the "Green" indicator.

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
IDS compensatory hours	5.00	5.00	0	0	10.30	6.20	0	6.90
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.003**	**0.003**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Program failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Last Modified: March 26, 2002

North Anna 1

4Q/2001 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	1705.5	1959.7	2208.0	2209.0	2160.0	2183.0	1681.6	2003.8
Indicator value	**0**	**0.9**	**0.9**	**0.9**	**0.8**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	1705.5	1959.7	2208.0	2209.0	2160.0	2183.0	1681.6	2003.8
Indicator value	**0.8**	**1.7**	**0.9**	**0.9**	**0.8**	**0**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	14.43	7.73	23.33	45.15	8.10	60.71	12.97	7.19
Unplanned unavailable hours	0	0.30	0	0	0	5.33	0	0
Fault exposure hours	95.52	3.92	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1815.70	2054.74	2208.00	2209.00	2160.00	2183.00	1952.00	2119.13
Train 2								
Planned unavailable hours	12.27	14.00	9.23	48.38	6.32	10.40	9.01	11.94
Unplanned unavailable hours	0	8.92	0	0	34.00	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2088.50	2179.08	2208.00	2209.00	2160.00	2183.00	1952.00	2119.13
Indicator value	**1.9%**	**1.6%**	**1.5%**	**1.3%**	**1.3%**	**1.3%**	**1.3%**	**1.3%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	0.58	6.52	6.37	4.08	0.93	0.79	3.53	0
Unplanned unavailable hours	0	39.11	0.95	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1720.20	2101.73	2208.00	2209.00	2160.00	2183.00	1693.25	2027.23
Train 2								
Planned unavailable hours	1.02	7.07	2.73	3.80	0.12	3.22	1.30	0.37
Unplanned unavailable hours	0	33.46	0.87	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2034.78	2132.08	2208.00	2209.00	2160.00	2183.00	1693.25	2027.23
Indicator value	**0.1%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	0	1.17	1.10	1.87	14.02	2.28	1.12	1.25
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1715.78	2046.23	2208.00	2209.00	2160.00	2183.00	1690.82	2023.73
Train 2								
Planned unavailable hours	9.75	0	6.29	11.83	0.48	1.58	0	6.45
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1715.78	2046.23	2208.00	2209.00	2160.00	2183.00	1690.82	2023.73
Train 3								
Planned unavailable hours	4.82	7.98	13.92	5.00	3.97	4.18	2.93	20.41
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1715.78	2046.23	2208.00	2209.00	2160.00	2183.00	1690.82	2023.73
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	11.40	8.03	37.79	5.68	4.72	14.69	15.00	12.50
Unplanned unavailable hours	0	28.95	2.55	0	0	1.40	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1720.20	2050.82	2208.00	2209.00	2160.00	2183.00	1695.67	2027.23
Train 2								
Planned unavailable hours	21.02	11.70	16.74	3.57	9.24	4.07	0.63	3.87
Unplanned unavailable hours	0	0	2.98	0	5.62	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1720.20	2050.82	2208.00	2209.00	2160.00	2183.00	1695.67	2027.23
Train 3								
Planned unavailable hours	2.58	0	0	0	0	8.50	1.67	0
Unplanned unavailable hours	0	12.62	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2034.78	2183.00	2208.00	2209.00	2160.00	2183.00	2022.20	2209.00
Train 4								
Planned unavailable hours	3.67	0	0	0	0	14.08	1.58	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2034.78	2183.00	2208.00	2209.00	2160.00	2183.00	2022.20	2209.00
Indicator value	**0.3%**	**0.2%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Safety System Functional Failures	0	1	0	0	0	0	0	0
Indicator value	**3**	**2**	**1**	**1**	**1**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum activity	0.002920	0.003050	0.002040	0.000579	0.000632	0.000832	0.000709	0.000717	0.000830	0.000777	0.001460	0.000833
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
Indicator value	**0.3**	**0.3**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum activity	0.000854	0.000880	0.000999	0.001170	0.001150	0.001410	0.001580	0.001250	0.001380	0.000480	0.000526	0.000507
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00
Maximum leakage	0.230	0.222	0.268	0.384	0.187	0.176	0.175	0.183	0.132	0.160	0.182	0.189
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	**2.3**	**2.2**	**2.7**	**3.8**	**1.9**	**1.8**	**1.8**	**1.8**	**1.3**	**1.6**	**1.8**	**1.9**

Reactor Coolant System Leakage	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum leakage	0.179	0.159	0.246	0.145	0.169	0.165	0.163	0.169	0.171	0.205	0.220	0.211
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	**1.8**	**1.6**	**2.5**	**1.5**	**1.7**	**1.7**	**1.6**	**1.7**	**1.7**	**2.0**	**2.2**	**2.1**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful opportunities	25.0	2.0	4.0	18.0	30.0	18.0	16.0	35.0
Total opportunities	25.0	2.0	4.0	18.0	35.0	18.0	16.0	35.0
Indicator value	**99.2%**	**100.0%**	**100.0%**	**100.0%**	**97.1%**	**97.2%**	**97.4%**	**96.7%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Participating Key personnel	125.0	123.0	121.0	115.0	98.0	101.0	101.0	98.0
Total Key personnel	129.0	131.0	128.0	128.0	104.0	106.0	104.0	103.0
Indicator value	**96.9%**	**93.9%**	**94.5%**	**89.8%**	**94.2%**	**95.3%**	**97.1%**	**95.1%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful siren-tests	382	384	380	384	414	427	431	431
Total sirens-tests	385	385	385	385	427	429	434	434
Indicator value	**99.4%**	**99.4%**	**99.2%**	**99.4%**	**98.7%**	**98.7%**	**98.9%**	**98.8%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
IDS compensatory hours	5.00	0	0	10.30	6.20	0	6.90	56.70
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.003**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.004**

Licensee Comments:

4Q/01: Performance reflects 17.4 hours of CCTV camera operation during this reporting period with zero (0) failures.

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Program failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Action Matrix Summary | Reactor Oversight Process

Last Modified: March 15, 2002

North Anna 1

1Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	1959.7	2208.0	2209.0	2160.0	2183.0	1681.6	2003.8	2160.0
Indicator value	**0.9**	**0.9**	**0.9**	**0.8**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	1959.7	2208.0	2209.0	2160.0	2183.0	1681.6	2003.8	2160.0
Indicator value	**1.7**	**0.9**	**0.9**	**0.8**	**0**	**0**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	7.73	23.33	45.15	8.10	60.71	12.97	7.19	5.81
Unplanned unavailable hours	0.30	0	0	0	5.33	0	0	4.13
Fault exposure hours	3.92	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2054.74	2208.00	2209.00	2160.00	2183.00	1952.00	2119.13	2160.00
Train 2								
Planned unavailable hours	14.00	9.23	48.38	6.32	10.40	9.01	11.94	20.06
Unplanned unavailable hours	8.92	0	0	34.00	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2179.08	2208.00	2209.00	2160.00	2183.00	1952.00	2119.13	2160.00
Indicator value	**1.6%**	**1.5%**	**1.3%**	**1.3%**	**1.3%**	**1.3%**	**1.3%**	**1.3%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	6.52	6.37	4.08	0.93	0.79	3.53	0	3.27
Unplanned unavailable hours	39.11	0.95	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2101.73	2208.00	2209.00	2160.00	2183.00	1693.25	2027.23	2160.00
Train 2								
Planned unavailable hours	7.07	2.73	3.80	0.12	3.22	1.30	0.37	0.75
Unplanned unavailable hours	33.46	0.87	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2132.08	2208.00	2209.00	2160.00	2183.00	1693.25	2027.23	2160.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	1.17	1.10	1.87	14.02	2.28	1.12	1.25	6.95
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2046.23	2208.00	2209.00	2160.00	2183.00	1690.82	2023.73	2160.00
Train 2								
Planned unavailable hours	0	6.29	11.83	0.48	1.58	0	6.45	4.75
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2046.23	2208.00	2209.00	2160.00	2183.00	1690.82	2023.73	2160.00
Train 3								
Planned unavailable hours	7.98	13.92	5.00	3.97	4.18	2.93	20.41	4.43
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2046.23	2208.00	2209.00	2160.00	2183.00	1690.82	2023.73	2160.00
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	8.03	37.79	5.68	4.72	14.69	15.00	12.50	21.96
Unplanned unavailable hours	28.95	2.55	0	0	1.40	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2050.82	2208.00	2209.00	2160.00	2183.00	1695.67	2027.23	2160.00
Train 2								
Planned unavailable hours	11.70	16.74	3.57	9.24	4.07	0.63	3.87	37.47
Unplanned unavailable hours	0	2.98	0	5.62	0	0	0	33.18
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2050.82	2208.00	2209.00	2160.00	2183.00	1695.67	2027.23	2160.00
Train 3								
Planned unavailable hours	0	0	0	0	8.50	1.67	0	0
Unplanned unavailable hours	12.62	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2022.20	2209.00	2160.00
Train 4								
Planned unavailable hours	0	0	0	0	14.08	1.58	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2022.20	2209.00	2160.00
Indicator value	**0.2%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Safety System Functional Failures	1	0	0	0	0	0	0	0
Indicator value	**2**	**1**	**1**	**1**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.000579	0.000632	0.000832	0.000709	0.000717	0.000830	0.000777	0.001460	0.000833	0.000854	0.000880	0.000999
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum activity	0.001170	0.001150	0.001410	0.001580	0.001250	0.001380	0.000480	0.000526	0.000507	0.000582	0.000582	0.000584
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/00	5/00	6/00	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	0.384	0.187	0.176	0.175	0.183	0.132	0.160	0.182	0.189	0.179	0.159	0.246
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	**3.8**	**1.9**	**1.8**	**1.8**	**1.8**	**1.3**	**1.6**	**1.8**	**1.9**	**1.8**	**1.6**	**2.5**

Reactor Coolant System Leakage	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum leakage	0.145	0.169	0.165	0.163	0.169	0.171	0.205	0.220	0.211	0.222	0.222	0.213
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	**1.5**	**1.7**	**1.7**	**1.6**	**1.7**	**1.7**	**2.0**	**2.2**	**2.1**	**2.2**	**2.2**	**2.1**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful opportunities	2.0	4.0	18.0	30.0	18.0	16.0	35.0	39.0
Total opportunities	2.0	4.0	18.0	35.0	18.0	16.0	35.0	41.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**97.1%**	**97.2%**	**97.4%**	**96.7%**	**95.9%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Participating Key personnel	123.0	121.0	115.0	98.0	101.0	101.0	98.0	112.0
Total Key personnel	131.0	128.0	128.0	104.0	106.0	104.0	103.0	114.0
Indicator value	**93.9%**	**94.5%**	**89.8%**	**94.2%**	**95.3%**	**97.1%**	**95.1%**	**98.2%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Successful siren-tests	384	380	384	414	427	431	431	434
Total sirens-tests	385	385	385	427	429	434	434	434
Indicator value	**99.4%**	**99.2%**	**99.4%**	**98.7%**	**98.7%**	**98.9%**	**98.8%**	**99.5%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
IDS compensatory hours	0	0	10.30	6.10	0	5.20	53.40	0
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.004**	**0.003**

Licensee Comments:

1Q/02: Performance reflects zero (0) hours of CCTV camera operation during this reporting period.

4Q/01: Performance reflects 17.4 hours of CCTV camera operation during this reporting period with zero (0) failures. Re-assessment noted October and December 2001, IDS Compensatory Hours should have been 40.0 (vs 40.5) and 13.4 (vs 16.2) respectively.

3Q/01: Re-assessment noted September 2001, IDS Compensatory Hours should have been 5.2 vs 6.9

1Q/01: Re-assessment noted March 2001, IDS Compensatory Hours should have been 6.1 vs. 6.2.

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Program failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: May 1, 2002

North Anna 1

2Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2160.0	2183.0	1681.6	2003.8	2160.0	2183.0
Indicator value	**0.9**	**0.9**	**0.8**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2208.0	2209.0	2160.0	2183.0	1681.6	2003.8	2160.0	2183.0
Indicator value	**0.9**	**0.9**	**0.8**	**0**	**0**	**0**	**0**	**0.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	23.33	45.15	8.10	60.71	12.97	7.19	5.81	37.82
Unplanned unavailable hours	0	0	0	5.33	0	0	4.13	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1952.00	2119.13	2160.00	2183.00
Train 2								
Planned unavailable hours	9.23	48.38	6.32	10.40	9.01	11.94	20.06	53.49
Unplanned unavailable hours	0	0	34.00	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1952.00	2119.13	2160.00	2183.00
Indicator value	**1.5%**	**1.3%**	**1.3%**	**1.3%**	**1.3%**	**1.3%**	**1.3%**	**1.4%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	6.37	4.08	0.93	0.79	3.53	0	3.27	0.73
Unplanned unavailable hours	0.95	0	0	0	0	0	0	42.98
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1693.25	2027.23	2160.00	2183.00
Train 2								
Planned unavailable hours	2.73	3.80	0.12	3.22	1.30	0.37	0.75	2.83
Unplanned unavailable hours	0.87	0	0	0	0	0	0	42.98
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1693.25	2027.23	2160.00	2183.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	1.10	1.87	14.02	2.28	1.12	1.25	6.95	1.17
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1690.82	2023.73	2160.00	2183.00
Train 2								
Planned unavailable hours	6.29	11.83	0.48	1.58	0	6.45	4.75	0.83
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1690.82	2023.73	2160.00	2183.00
Train 3								
Planned unavailable hours	13.92	5.00	3.97	4.18	2.93	20.41	4.43	5.15
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1690.82	2023.73	2160.00	2183.00
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	37.79	5.68	4.72	14.69	15.00	12.50	21.96	15.32
Unplanned unavailable hours	2.55	0	0	1.40	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1695.67	2027.23	2160.00	2183.00
Train 2								
Planned unavailable hours	16.74	3.57	9.24	4.07	0.63	3.87	37.47	17.60
Unplanned unavailable hours	2.98	0	5.62	0	0	0	33.18	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	1695.67	2027.23	2160.00	2183.00
Train 3								
Planned unavailable hours	0	0	0	8.50	1.67	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2022.20	2209.00	2160.00	2183.00
Train 4								
Planned unavailable hours	0	0	0	14.08	1.58	0	0	0

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2022.20	2209.00	2160.00	2183.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	**3Q/00**	**4Q/00**	**1Q/01**	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**1**	**1**	**1**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.000709	0.000717	0.000830	0.000777	0.001460	0.000833	0.000854	0.000880	0.000999	0.001170	0.001150	0.001410
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum activity	0.001580	0.001250	0.001380	0.000480	0.000526	0.000507	0.000582	0.000582	0.000584	0.000660	0.000684	0.000637
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
Indicator value	**0.2**	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	0.175	0.183	0.132	0.160	0.182	0.189	0.179	0.159	0.246	0.145	0.169	0.165
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	**1.8**	**1.8**	**1.3**	**1.6**	**1.8**	**1.9**	**1.8**	**1.6**	**2.5**	**1.5**	**1.7**	**1.7**

Reactor Coolant System Leakage	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum leakage	0.163	0.169	0.171	0.205	0.220	0.211	0.222	0.222	0.213	0.201	0.191	0.175
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	**1.6**	**1.7**	**1.7**	**2.0**	**2.2**	**2.1**	**2.2**	**2.2**	**2.1**	**2.0**	**1.9**	**1.8**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful opportunities	4.0	18.0	30.0	18.0	16.0	35.0	39.0	14.0
Total opportunities	4.0	18.0	35.0	18.0	16.0	35.0	41.0	15.0
Indicator value	**100.0%**	**100.0%**	**97.1%**	**97.2%**	**97.4%**	**96.7%**	**95.9%**	**95.6%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Participating Key personnel	121.0	115.0	98.0	101.0	101.0	98.0	112.0	123.0
Total Key personnel	128.0	128.0	104.0	106.0	104.0	103.0	114.0	131.0
Indicator value	**94.5%**	**89.8%**	**94.2%**	**95.3%**	**97.1%**	**95.1%**	**98.2%**	**93.9%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Successful siren-tests	380	384	414	427	431	431	434	432
Total sirens-tests	385	385	427	429	434	434	434	434
Indicator value	**99.2%**	**99.4%**	**98.7%**	**98.7%**	**98.9%**	**98.8%**	**99.5%**	**99.5%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
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**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
IDS compensatory hours	0	10.30	6.10	0	5.20	53.40	0	4.90
CCTV compensatory hours	0	0	0	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.001**	**0.001**	**0.001**	**0.001**	**0.001**	**0.004**	**0.003**	**0.004**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Program failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: July 31, 2002

North Anna 1

3Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2160.0	2183.0	1681.6	2003.8	2160.0	2183.0	2208.0
Indicator value	**0.9**	**0.8**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2209.0	2160.0	2183.0	1681.6	2003.8	2160.0	2183.0	2208.0
Indicator value	**0.9**	**0.8**	**0**	**0**	**0**	**0**	**0.9**	**0.8**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	45.15	8.10	60.71	12.97	7.19	5.81	37.82	25.48
Unplanned unavailable hours	0	0	5.33	0	0	4.13	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1952.00	2119.13	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	48.38	6.32	10.40	9.01	11.94	20.06	53.49	29.59
Unplanned unavailable hours	0	34.00	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1952.00	2119.13	2160.00	2183.00	2208.00
Indicator value	**1.3%**	**1.3%**	**1.3%**	**1.3%**	**1.3%**	**1.3%**	**1.4%**	**1.5%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	**4Q/00**	**1Q/01**	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**
Train 1								
Planned unavailable hours	4.08	0.93	0.79	3.53	0	3.27	0.73	0.87
Unplanned unavailable hours	0	0	0	0	0	0	42.98	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1693.25	2027.23	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	3.80	0.12	3.22	1.30	0.37	0.75	2.83	3.22
Unplanned unavailable hours	0	0	0	0	0	0	42.98	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1693.25	2027.23	2160.00	2183.00	2208.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	1.87	14.02	2.28	1.12	1.25	6.95	1.17	3.20
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1690.82	2023.73	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	11.83	0.48	1.58	0	6.45	4.75	0.83	6.05
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1690.82	2023.73	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	5.00	3.97	4.18	2.93	20.41	4.43	5.15	4.28
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1690.82	2023.73	2160.00	2183.00	2208.00
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	5.68	4.72	14.69	15.00	12.50	21.96	15.32	19.39
Unplanned unavailable hours	0	0	1.40	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1695.67	2027.23	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	3.57	9.24	4.07	0.63	3.87	37.47	17.60	10.86
Unplanned unavailable hours	0	5.62	0	0	0	33.18	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	1695.67	2027.23	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	0	8.50	1.67	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2022.20	2209.00	2160.00	2183.00	2208.00
Train 4								
Planned unavailable hours	0	0	14.08	1.58	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2022.20	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/00**	**11/00**	**12/00**	**1/01**	**2/01**	**3/01**	**4/01**	**5/01**	**6/01**	**7/01**	**8/01**	**9/01**
Maximum activity	0.000777	0.001460	0.000833	0.000854	0.000880	0.000999	0.001170	0.001150	0.001410	0.001580	0.001250	0.001380
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**

Reactor Coolant System Activity	**10/01**	**11/01**	**12/01**	**1/02**	**2/02**	**3/02**	**4/02**	**5/02**	**6/02**	**7/02**	**8/02**	**9/02**
Maximum activity	0.000480	0.000526	0.000507	0.000582	0.000582	0.000584	0.000660	0.000684	0.000637	0.000684	0.000769	0.000872
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
Indicator value	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/00**	**11/00**	**12/00**	**1/01**	**2/01**	**3/01**	**4/01**	**5/01**	**6/01**	**7/01**	**8/01**	**9/01**
Maximum leakage	0.160	0.182	0.189	0.179	0.159	0.246	0.145	0.169	0.165	0.163	0.169	0.171
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	**1.6**	**1.8**	**1.9**	**1.8**	**1.6**	**2.5**	**1.5**	**1.7**	**1.7**	**1.6**	**1.7**	**1.7**

Reactor Coolant System Leakage	**10/01**	**11/01**	**12/01**	**1/02**	**2/02**	**3/02**	**4/02**	**5/02**	**6/02**	**7/02**	**8/02**	**9/02**
Maximum leakage	0.205	0.220	0.211	0.222	0.222	0.213	0.201	0.191	0.175	0.192	0.215	0.207
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	**2.0**	**2.2**	**2.1**	**2.2**	**2.2**	**2.1**	**2.0**	**1.9**	**1.8**	**1.9**	**2.2**	**2.1**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful opportunities	18.0	30.0	18.0	16.0	35.0	39.0	14.0	21.0
Total opportunities	18.0	35.0	18.0	16.0	35.0	41.0	15.0	21.0
Indicator value	**100.0%**	**97.1%**	**97.2%**	**97.4%**	**96.7%**	**95.9%**	**95.6%**	**96.0%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Participating Key personnel	115.0	98.0	101.0	101.0	98.0	112.0	123.0	127.0
Total Key personnel	128.0	104.0	106.0	104.0	103.0	114.0	131.0	132.0
Indicator value	**89.8%**	**94.2%**	**95.3%**	**97.1%**	**95.1%**	**98.2%**	**93.9%**	**96.2%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Successful siren-tests	384	414	427	431	431	434	432	431
Total sirens-tests	385	427	429	434	434	434	434	434
Indicator value	**99.4%**	**98.7%**	**98.7%**	**98.9%**	**98.8%**	**99.5%**	**99.5%**	**99.5%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
High radiation area occurrences	0	0	0	0	0	0	0	1
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**	**1**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
IDS compensatory hours	10.30	6.10	0	5.20	53.40	0	4.90	1.90
CCTV compensatory hours	0	0	0	0	0	0	0	10.2
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.001**	**0.001**	**0.001**	**0.001**	**0.004**	**0.003**	**0.004**	**0.004**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Program failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: October 22, 2002

North Anna 1

4Q/2002 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2160.0	2183.0	1681.6	2003.8	2160.0	2183.0	2208.0	2209.0
Indicator value	**0.8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2160.0	2183.0	1681.6	2003.8	2160.0	2183.0	2208.0	2209.0
Indicator value	**0.8**	**0**	**0**	**0**	**0**	**0.9**	**0.8**	**0.8**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	8.10	60.71	12.97	7.19	5.81	37.82	25.48	7.36
Unplanned unavailable hours	0	5.33	0	0	4.13	0	0	9.67
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1952.00	2119.13	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	6.32	10.40	9.01	11.94	20.06	53.49	29.59	10.60
Unplanned unavailable hours	34.00	0	0	0	0	0	0	11.80
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1952.00	2119.13	2160.00	2183.00	2208.00	2209.00
Indicator value	**1.3%**	**1.3%**	**1.3%**	**1.3%**	**1.3%**	**1.4%**	**1.5%**	**1.3%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	0.93	0.79	3.53	0	3.27	0.73	0.87	4.29
Unplanned unavailable hours	0	0	0	0	0	42.98	0	0.65
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1693.25	2027.23	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0.12	3.22	1.30	0.37	0.75	2.83	3.22	2.15
Unplanned unavailable hours	0	0	0	0	0	42.98	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1693.25	2027.23	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.5%**	**0.4%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	14.02	2.28	1.12	1.25	6.95	1.17	3.20	7.57
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1690.82	2023.73	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	0.48	1.58	0	6.45	4.75	0.83	6.05	2.28
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1690.82	2023.73	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	3.97	4.18	2.93	20.41	4.43	5.15	4.28	4.80
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1690.82	2023.73	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	4.72	14.69	15.00	12.50	21.96	15.32	19.39	2.75
Unplanned unavailable hours	0	1.40	0	0	0	0	0	52.33
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1695.67	2027.23	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	9.24	4.07	0.63	3.87	37.47	17.60	10.86	10.03
Unplanned unavailable hours	5.62	0	0	0	33.18	0	0	57.50
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	1695.67	2027.23	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0	8.50	1.67	0	0	0	0	37.17
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2022.20	2209.00	2160.00	2183.00	2208.00	2209.00
Train 4								
Planned unavailable hours	0	14.08	1.58	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2022.20	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.6%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum activity	0.000854	0.000880	0.000999	0.001170	0.001150	0.001410	0.001580	0.001250	0.001380	0.000480	0.000526	0.000507
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0**	**0.1**	**0.1**

Reactor Coolant System Activity	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum activity	0.000582	0.000582	0.000584	0.000660	0.000684	0.000637	0.000684	0.000769	0.000872	0.000815	0.000797	0.000852
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/01**	**2/01**	**3/01**	**4/01**	**5/01**	**6/01**	**7/01**	**8/01**	**9/01**	**10/01**	**11/01**	**12/01**
Maximum leakage	0.179	0.159	0.246	0.145	0.169	0.165	0.163	0.169	0.171	0.205	0.220	0.211
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	**1.8**	**1.6**	**2.5**	**1.5**	**1.7**	**1.7**	**1.6**	**1.7**	**1.7**	**2.0**	**2.2**	**2.1**

Reactor Coolant System Leakage	**1/02**	**2/02**	**3/02**	**4/02**	**5/02**	**6/02**	**7/02**	**8/02**	**9/02**	**10/02**	**11/02**	**12/02**
Maximum leakage	0.222	0.222	0.213	0.201	0.191	0.175	0.192	0.215	0.207	0.263	0.257	0.235
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	**2.2**	**2.2**	**2.1**	**2.0**	**1.9**	**1.8**	**1.9**	**2.2**	**2.1**	**2.6**	**2.6**	**2.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful opportunities	30.0	18.0	16.0	35.0	39.0	14.0	21.0	10.0
Total opportunities	35.0	18.0	16.0	35.0	41.0	15.0	21.0	10.0
Indicator value	**97.1%**	**97.2%**	**97.4%**	**96.7%**	**95.9%**	**95.6%**	**96.0%**	**95.8%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Participating Key personnel	98.0	101.0	101.0	98.0	112.0	123.0	127.0	127.0
Total Key personnel	104.0	106.0	104.0	103.0	114.0	131.0	132.0	128.0
Indicator value	**94.2%**	**95.3%**	**97.1%**	**95.1%**	**98.2%**	**93.9%**	**96.2%**	**99.2%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful siren-tests	414	427	431	431	434	432	431	434
Total sirens-tests	427	429	434	434	434	434	434	434
Indicator value	**98.7%**	**98.7%**	**98.9%**	**98.8%**	**99.5%**	**99.5%**	**99.5%**	**99.7%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
High radiation area occurrences	0	0	0	0	0	0	1	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**	**1**	**1**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
IDS compensatory hours	6.10	0	5.20	53.40	0	4.90	1.90	2.50
CCTV compensatory hours	0	0	0	0	0	0	10.2	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.001**	**0.001**	**0.001**	**0.004**	**0.003**	**0.004**	**0.004**	**0.001**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Program failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: January 30, 2003

North Anna 1

1Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	1681.6	2003.8	2160.0	2183.0	2208.0	2209.0	1273.7
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2183.0	1681.6	2003.8	2160.0	2183.0	2208.0	2209.0	1273.7
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**0.8**	**0.8**	**0.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	60.71	12.97	7.19	5.81	37.82	25.48	7.36	4.61
Unplanned unavailable hours	5.33	0	0	4.13	0	0	9.67	77.40
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1952.00	2119.13	2160.00	2183.00	2208.00	2209.00	1723.64
Train 2								
Planned unavailable hours	10.40	9.01	11.94	20.06	53.49	29.59	10.60	7.69
Unplanned unavailable hours	0	0	0	0	0	0	11.80	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1952.00	2119.13	2160.00	2183.00	2208.00	2209.00	1723.64
Indicator value	**1.3%**	**1.3%**	**1.3%**	**1.3%**	**1.4%**	**1.5%**	**1.3%**	**1.2%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0.79	3.53	0	3.27	0.73	0.87	4.29	0
Unplanned unavailable hours	0	0	0	0	42.98	0	0.65	3.08
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1693.25	2027.23	2160.00	2183.00	2208.00	2209.00	1285.22
Train 2								
Planned unavailable hours	3.22	1.30	0.37	0.75	2.83	3.22	2.15	18.40
Unplanned unavailable hours	0	0	0	0	42.98	0	0	6.45
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1693.25	2027.23	2160.00	2183.00	2208.00	2209.00	1285.22
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.5%**	**0.4%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	2.28	1.12	1.25	6.95	1.17	3.20	7.57	0.35
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1690.82	2023.73	2160.00	2183.00	2208.00	2209.00	1285.22
Train 2								
Planned unavailable hours	1.58	0	6.45	4.75	0.83	6.05	2.28	12.18
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1690.82	2023.73	2160.00	2183.00	2208.00	2209.00	1285.22
Train 3								
Planned unavailable hours	4.18	2.93	20.41	4.43	5.15	4.28	4.80	0.33
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1690.82	2023.73	2160.00	2183.00	2208.00	2209.00	1283.17
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	14.69	15.00	12.50	21.96	15.32	19.39	2.75	0
Unplanned unavailable hours	1.40	0	0	0	0	0	52.33	2.50
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1695.67	2027.23	2160.00	2183.00	2208.00	2209.00	1287.27
Train 2								
Planned unavailable hours	4.07	0.63	3.87	37.47	17.60	10.86	10.03	9.97
Unplanned unavailable hours	0	0	0	33.18	0	0	57.50	67.18
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1695.67	2027.23	2160.00	2183.00	2208.00	2209.00	1287.27
Train 3								
Planned unavailable hours	8.50	1.67	0	0	0	0	37.17	3.20
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2022.20	2209.00	2160.00	2183.00	2208.00	2209.00	1414.64
Train 4								
Planned unavailable hours	14.08	1.58	0	0	0	0	0	2.98

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2022.20	2209.00	2160.00	2183.00	2208.00	2209.00	1414.64
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.6%**	**0.6%**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/01**	**5/01**	**6/01**	**7/01**	**8/01**	**9/01**	**10/01**	**11/01**	**12/01**	**1/02**	**2/02**	**3/02**
Maximum activity	0.001170	0.001150	0.001410	0.001580	0.001250	0.001380	0.000480	0.000526	0.000507	0.000582	0.000582	0.000584
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	**4/02**	**5/02**	**6/02**	**7/02**	**8/02**	**9/02**	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**
Maximum activity	0.000660	0.000684	0.000637	0.000684	0.000769	0.000872	0.000815	0.000797	0.000852	0.000809	0.000947	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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**

Licensee Comments:

3/03: 3/2003 data unavailable due to plant conditions that do not require RCS activity to be calculated.

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02
Maximum leakage	0.145	0.169	0.165	0.163	0.169	0.171	0.205	0.220	0.211	0.222	0.222	0.213
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	**1.5**	**1.7**	**1.7**	**1.6**	**1.7**	**1.7**	**2.0**	**2.2**	**2.1**	**2.2**	**2.2**	**2.1**

Reactor Coolant System Leakage	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03
Maximum leakage	0.201	0.191	0.175	0.192	0.215	0.207	0.263	0.257	0.235	0.299	0.267	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	**2.0**	**1.9**	**1.8**	**1.9**	**2.2**	**2.1**	**2.6**	**2.6**	**2.4**	**3.0**	**2.7**	**N/A**

Licensee Comments:

3/03: 3/2003 data unavailable due to plant conditions that do not require RCS identified leakage to be calculated.

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful opportunities	18.0	16.0	35.0	39.0	14.0	21.0	10.0	30.0
Total opportunities	18.0	16.0	35.0	41.0	15.0	21.0	10.0	32.0
Indicator value	**97.2%**	**97.4%**	**96.7%**	**95.9%**	**95.6%**	**96.0%**	**95.8%**	**97.3%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Participating Key personnel	101.0	101.0	98.0	112.0	123.0	127.0	127.0	124.0
Total Key personnel	106.0	104.0	103.0	114.0	131.0	132.0	128.0	124.0
Indicator value	**95.3%**	**97.1%**	**95.1%**	**98.2%**	**93.9%**	**96.2%**	**99.2%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Successful siren-tests	427	431	431	434	432	431	434	431
Total sirens-tests	429	434	434	434	434	434	434	434
Indicator value	**98.7%**	**98.9%**	**98.8%**	**99.5%**	**99.5%**	**99.5%**	**99.7%**	**99.5%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
High radiation area occurrences	0	0	0	0	0	1	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**	**1**	**1**	**1**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
IDS compensatory hours	0	5.20	53.40	0	4.90	1.90	2.50	3.50
CCTV compensatory hours	0	0	0	0	0	10.2	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.001**	**0.001**	**0.004**	**0.003**	**0.004**	**0.004**	**0.001**	**0.001**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Program failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: April 22, 2003

North Anna 1

2Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned scrams	0	0	0	0	0	0	0	2.0
Critical hours	1681.6	2003.8	2160.0	2183.0	2208.0	2209.0	1273.7	1549.9
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	1681.6	2003.8	2160.0	2183.0	2208.0	2209.0	1273.7	1549.9
Indicator value	**0**	**0**	**0**	**0.9**	**0.8**	**0.8**	**0.9**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	12.97	7.19	5.81	37.82	25.48	7.36	4.61	2.67
Unplanned unavailable hours	0	0	4.13	0	0	9.67	77.40	23.50
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1952.00	2119.13	2160.00	2183.00	2208.00	2209.00	1723.64	1677.40
Train 2								
Planned unavailable hours	9.01	11.94	20.06	53.49	29.59	10.60	7.69	7.48
Unplanned unavailable hours	0	0	0	0	0	11.80	0	3.88
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1952.00	2119.13	2160.00	2183.00	2208.00	2209.00	1723.64	1806.70
Indicator value	**1.3%**	**1.3%**	**1.3%**	**1.4%**	**1.5%**	**1.3%**	**1.2%**	**1.3%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**
Train 1								
Planned unavailable hours	3.53	0	3.27	0.73	0.87	4.29	0	2.37
Unplanned unavailable hours	0	0	0	42.98	0	0.65	3.08	0.12
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1693.25	2027.23	2160.00	2183.00	2208.00	2209.00	1285.22	1836.99
Train 2								
Planned unavailable hours	1.30	0.37	0.75	2.83	3.22	2.15	18.40	0.93
Unplanned unavailable hours	0	0	0	42.98	0	0	6.45	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1693.25	2027.23	2160.00	2183.00	2208.00	2209.00	1285.22	1836.99
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.5%**	**0.4%**	**0.5%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	1.12	1.25	6.95	1.17	3.20	7.57	0.35	4.50
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1690.82	2023.73	2160.00	2183.00	2208.00	2209.00	1285.22	1836.99
Train 2								
Planned unavailable hours	0	6.45	4.75	0.83	6.05	2.28	12.18	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1690.82	2023.73	2160.00	2183.00	2208.00	2209.00	1285.22	1836.99
Train 3								
Planned unavailable hours	2.93	20.41	4.43	5.15	4.28	4.80	0.33	9.81
Unplanned unavailable hours	0	0	0	0	0	0	0	3.27
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1690.82	2023.73	2160.00	2183.00	2208.00	2209.00	1283.17	1829.18
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	15.00	12.50	21.96	15.32	19.39	2.75	0	4.65
Unplanned unavailable hours	0	0	0	0	0	52.33	2.50	1.82
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1695.67	2027.23	2160.00	2183.00	2208.00	2209.00	1287.27	1844.79
Train 2								
Planned unavailable hours	0.63	3.87	37.47	17.60	10.86	10.03	9.97	1.73
Unplanned unavailable hours	0	0	33.18	0	0	57.50	67.18	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1695.67	2027.23	2160.00	2183.00	2208.00	2209.00	1287.27	1844.79
Train 3								
Planned unavailable hours	1.67	0	0	0	0	37.17	3.20	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2022.20	2209.00	2160.00	2183.00	2208.00	2209.00	1414.64	2106.56
Train 4								
Planned unavailable hours	1.58	0	0	0	0	0	2.98	0

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2022.20	2209.00	2160.00	2183.00	2208.00	2209.00	1414.64	2106.56
Indicator value	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.6%**	**0.6%**	**0.6%**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/01**	**8/01**	**9/01**	**10/01**	**11/01**	**12/01**	**1/02**	**2/02**	**3/02**	**4/02**	**5/02**	**6/02**
Maximum activity	0.001580	0.001250	0.001380	0.000480	0.000526	0.000507	0.000582	0.000582	0.000584	0.000660	0.000684	0.000637
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
Indicator value	**0.2**	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	**7/02**	**8/02**	**9/02**	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**
Maximum activity	0.000684	0.000769	0.000872	0.000815	0.000797	0.000852	0.000809	0.000947	N/A	0.000412	0.000495	0.000410
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum leakage	0.163	0.169	0.171	0.205	0.220	0.211	0.222	0.222	0.213	0.201	0.191	0.175
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	**1.6**	**1.7**	**1.7**	**2.0**	**2.2**	**2.1**	**2.2**	**2.2**	**2.1**	**2.0**	**1.9**	**1.8**

Reactor Coolant System Leakage	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum leakage	0.192	0.215	0.207	0.263	0.257	0.235	0.299	0.267	N/A	0.212	0.272	0.192
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	**1.9**	**2.2**	**2.1**	**2.6**	**2.6**	**2.4**	**3.0**	**2.7**	**N/A**	**2.1**	**2.7**	**1.9**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Successful opportunities	16.0	35.0	39.0	14.0	21.0	10.0	30.0	106.0
Total opportunities	16.0	35.0	41.0	15.0	21.0	10.0	32.0	106.0
Indicator value	**97.4%**	**96.7%**	**95.9%**	**95.6%**	**96.0%**	**95.8%**	**97.3%**	**98.2%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Participating Key personnel	101.0	98.0	112.0	123.0	127.0	127.0	124.0	152.0
Total Key personnel	104.0	103.0	114.0	131.0	132.0	128.0	124.0	153.0
Indicator value	**97.1%**	**95.1%**	**98.2%**	**93.9%**	**96.2%**	**99.2%**	**100.0%**	**99.3%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Successful siren-tests	431	431	434	432	431	434	431	870
Total sirens-tests	434	434	434	434	434	434	434	870
Indicator value	**98.9%**	**98.8%**	**99.5%**	**99.5%**	**99.5%**	**99.7%**	**99.5%**	**99.7%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
High radiation area occurrences	0	0	0	0	1	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**	**1**	**1**	**1**	**1**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
IDS compensatory hours	5.20	53.40	0	4.90	1.90	2.50	3.50	0
CCTV compensatory hours	0	0	0	0	10.2	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.001**	**0.004**	**0.003**	**0.004**	**0.004**	**0.001**	**0.001**	**0.001**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Program failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: July 22, 2003

North Anna 1

3Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned scrams	0	0	0	0	0	0	2.0	0
Critical hours	2003.8	2160.0	2183.0	2208.0	2209.0	1273.7	1549.9	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**1.9**	**1.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	2003.8	2160.0	2183.0	2208.0	2209.0	1273.7	1549.9	2208.0
Indicator value	**0**	**0**	**0.9**	**0.8**	**0.8**	**0.9**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	7.19	5.81	37.82	25.48	7.36	4.61	2.67	50.35
Unplanned unavailable hours	0	4.13	0	0	9.67	77.40	23.50	23.00
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2119.13	2160.00	2183.00	2208.00	2209.00	1723.64	1677.40	2208.00
Train 2								
Planned unavailable hours	11.94	20.06	53.49	29.59	10.60	7.69	7.48	54.00
Unplanned unavailable hours	0	0	0	0	11.80	0	3.88	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2119.13	2160.00	2183.00	2208.00	2209.00	1723.64	1806.70	2208.00
Indicator value	**1.3%**	**1.3%**	**1.4%**	**1.5%**	**1.3%**	**1.2%**	**1.3%**	**1.5%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**
Train 1								
Planned unavailable hours	0	3.27	0.73	0.87	4.29	0	2.37	2.53
Unplanned unavailable hours	0	0	42.98	0	0.65	3.08	0.12	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2027.23	2160.00	2183.00	2208.00	2209.00	1285.22	1836.99	2208.00
Train 2								
Planned unavailable hours	0.37	0.75	2.83	3.22	2.15	18.40	0.93	2.97
Unplanned unavailable hours	0	0	42.98	0	0	6.45	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2027.23	2160.00	2183.00	2208.00	2209.00	1285.22	1836.99	2208.00
Indicator value	**0.3%**	**0.3%**	**0.4%**	**0.5%**	**0.4%**	**0.5%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	1.25	6.95	1.17	3.20	7.57	0.35	4.50	1.50
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2023.73	2160.00	2183.00	2208.00	2209.00	1285.22	1836.99	2208.00
Train 2								
Planned unavailable hours	6.45	4.75	0.83	6.05	2.28	12.18	0	3.41
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2023.73	2160.00	2183.00	2208.00	2209.00	1285.22	1836.99	2208.00
Train 3								
Planned unavailable hours	20.41	4.43	5.15	4.28	4.80	0.33	9.81	10.45
Unplanned unavailable hours	0	0	0	0	0	0	3.27	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2023.73	2160.00	2183.00	2208.00	2209.00	1283.17	1829.18	2208.00
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	12.50	21.96	15.32	19.39	2.75	0	4.65	16.60
Unplanned unavailable hours	0	0	0	0	52.33	2.50	1.82	1.65
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2027.23	2160.00	2183.00	2208.00	2209.00	1287.27	1844.79	2208.00
Train 2								
Planned unavailable hours	3.87	37.47	17.60	10.86	10.03	9.97	1.73	7.56
Unplanned unavailable hours	0	33.18	0	0	57.50	67.18	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2027.23	2160.00	2183.00	2208.00	2209.00	1287.27	1844.79	2208.00
Train 3								
Planned unavailable hours	0	0	0	0	37.17	3.20	0	10.15
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	1414.64	2106.56	2208.00
Train 4								
Planned unavailable hours	0	0	0	0	0	2.98	0	0

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	1414.64	2106.56	2208.00
Indicator value	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum activity	0.000480	0.000526	0.000507	0.000582	0.000582	0.000584	0.000660	0.000684	0.000637	0.000684	0.000769	0.000872
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
Indicator value	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum activity	0.000815	0.000797	0.000852	0.000809	0.000947	N/A	0.000412	0.000495	0.000410	0.000513	0.000458	0.000705
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0**	**0**	**0**	**0.1**	**0**	**0.1**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum leakage	0.205	0.220	0.211	0.222	0.222	0.213	0.201	0.191	0.175	0.192	0.215	0.207
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	**2.0**	**2.2**	**2.1**	**2.2**	**2.2**	**2.1**	**2.0**	**1.9**	**1.8**	**1.9**	**2.2**	**2.1**

Reactor Coolant System Leakage	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum leakage	0.263	0.257	0.235	0.299	0.267	N/A	0.212	0.272	0.192	0.179	0.173	0.135
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	**2.6**	**2.6**	**2.4**	**3.0**	**2.7**	**N/A**	**2.1**	**2.7**	**1.9**	**1.8**	**1.7**	**1.3**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Successful opportunities	35.0	39.0	14.0	21.0	10.0	30.0	108.0	3.0
Total opportunities	35.0	41.0	15.0	21.0	10.0	32.0	108.0	3.0
Indicator value	**96.7%**	**95.9%**	**95.6%**	**96.0%**	**95.8%**	**97.3%**	**98.2%**	**98.1%**

Licensee Comments:

2Q/03: May data revised to reflect 89 successful opportunities and 89 actual opportunities vs 87 previously reported.

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Participating Key personnel	98.0	112.0	123.0	127.0	127.0	124.0	152.0	153.0
Total Key personnel	103.0	114.0	131.0	132.0	128.0	124.0	153.0	154.0
Indicator value	**95.1%**	**98.2%**	**93.9%**	**96.2%**	**99.2%**	**100.0%**	**99.3%**	**99.4%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Successful siren-tests	431	434	432	431	434	431	436	436
Total sirens-tests	434	434	434	434	434	434	436	441
Indicator value	**98.8%**	**99.5%**	**99.5%**	**99.5%**	**99.7%**	**99.5%**	**99.7%**	**99.5%**

Licensee Comments:

2Q/03: May and June data revised since it was determined to be "quarter-to-date" vs monthly

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
High radiation area occurrences	0	0	0	1	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**	**1**	**1**	**1**	**1**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
IDS compensatory hours	53.40	0	4.90	1.90	2.50	3.50	0	21.90
CCTV compensatory hours	0	0	0	10.2	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.004**	**0.003**	**0.004**	**0.004**	**0.001**	**0.001**	**0.001**	**0.002**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Program failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: October 22, 2003

North Anna 1

4Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned scrams	0	0	0	0	0	2.0	0	0
Critical hours	2160.0	2183.0	2208.0	2209.0	1273.7	1549.9	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**1.9**	**1.9**	**1.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2160.0	2183.0	2208.0	2209.0	1273.7	1549.9	2208.0	2209.0
Indicator value	**0**	**0.9**	**0.8**	**0.8**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	5.81	37.82	25.48	7.36	4.61	2.67	50.35	9.10
Unplanned unavailable hours	4.13	0	0	9.67	77.40	23.50	23.00	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1723.64	1677.40	2208.00	2209.00
Train 2								
Planned unavailable hours	20.06	53.49	29.59	10.60	7.69	7.48	54.00	14.39
Unplanned unavailable hours	0	0	0	11.80	0	3.88	0	18.21
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1723.64	1806.70	2208.00	2209.00
Indicator value	**1.3%**	**1.4%**	**1.5%**	**1.3%**	**1.2%**	**1.3%**	**1.5%**	**1.4%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**	**4Q/03**
Train 1								
Planned unavailable hours	3.27	0.73	0.87	4.29	0	2.37	2.53	1.43
Unplanned unavailable hours	0	42.98	0	0.65	3.08	0.12	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1285.22	1836.99	2208.00	2209.00
Train 2								
Planned unavailable hours	0.75	2.83	3.22	2.15	18.40	0.93	2.97	1.95
Unplanned unavailable hours	0	42.98	0	0	6.45	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1285.22	1836.99	2208.00	2209.00
Indicator value	**0.3%**	**0.4%**	**0.5%**	**0.4%**	**0.5%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	6.95	1.17	3.20	7.57	0.35	4.50	1.50	12.67
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1285.22	1836.99	2208.00	2209.00
Train 2								
Planned unavailable hours	4.75	0.83	6.05	2.28	12.18	0	3.41	11.13
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1285.22	1836.99	2208.00	2209.00
Train 3								
Planned unavailable hours	4.43	5.15	4.28	4.80	0.33	9.81	10.45	6.48
Unplanned unavailable hours	0	0	0	0	0	3.27	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1283.17	1829.18	2208.00	2209.00
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	21.96	15.32	19.39	2.75	0	4.65	16.60	28.03
Unplanned unavailable hours	0	0	0	52.33	2.50	1.82	1.65	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1287.27	1844.79	2208.00	2209.00
Train 2								
Planned unavailable hours	37.47	17.60	10.86	10.03	9.97	1.73	7.56	23.37
Unplanned unavailable hours	33.18	0	0	57.50	67.18	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1287.27	1844.79	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	0	37.17	3.20	0	10.15	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1414.64	2106.56	2208.00	2209.00
Train 4								
Planned unavailable hours	0	0	0	0	2.98	0	0	0

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1414.64	2106.56	2208.00	2209.00
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**	**4Q/03**
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/02**	**2/02**	**3/02**	**4/02**	**5/02**	**6/02**	**7/02**	**8/02**	**9/02**	**10/02**	**11/02**	**12/02**
Maximum activity	0.000582	0.000582	0.000584	0.000660	0.000684	0.000637	0.000684	0.000769	0.000872	0.000815	0.000797	0.000852
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**
Maximum activity	0.000809	0.000947	N/A	0.000412	0.000495	0.000410	0.000513	0.000458	0.000705	0.000527	0.000559	0.000534
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
Indicator value	**0.1**	**0.1**	**N/A**	**0**	**0**	**0**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum leakage	0.222	0.222	0.213	0.201	0.191	0.175	0.192	0.215	0.207	0.263	0.257	0.235
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	**2.2**	**2.2**	**2.1**	**2.0**	**1.9**	**1.8**	**1.9**	**2.2**	**2.1**	**2.6**	**2.6**	**2.4**

Reactor Coolant System Leakage	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum leakage	0.299	0.267	N/A	0.212	0.272	0.192	0.179	0.173	0.135	0.140	0.136	0.132
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	**3.0**	**2.7**	**N/A**	**2.1**	**2.7**	**1.9**	**1.8**	**1.7**	**1.3**	**1.4**	**1.4**	**1.3**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Successful opportunities	39.0	14.0	21.0	10.0	30.0	108.0	3.0	25.0
Total opportunities	41.0	15.0	21.0	10.0	32.0	108.0	3.0	35.0
Indicator value	**95.9%**	**95.6%**	**96.0%**	**95.8%**	**97.3%**	**98.2%**	**98.1%**	**94.3%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Participating Key personnel	112.0	123.0	127.0	127.0	124.0	151.0	152.0	150.0
Total Key personnel	114.0	131.0	132.0	128.0	124.0	152.0	153.0	152.0
Indicator value	**98.2%**	**93.9%**	**96.2%**	**99.2%**	**100.0%**	**99.3%**	**99.3%**	**98.7%**

Licensee Comments:

4Q/03: Total "Participating" and "Total Key" personnel reduced by 1 from 2003-06 thru 2003-11 after it was discovered that the individual had been trained but not evaluated.

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Successful siren-tests	434	432	431	434	431	436	436	435
Total sirens-tests	434	434	434	434	434	436	441	441
Indicator value	**99.5%**	**99.5%**	**99.5%**	**99.7%**	**99.5%**	**99.7%**	**99.5%**	**99.2%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
High radiation area occurrences	0	0	1	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**	**1**	**1**	**1**	**1**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
IDS compensatory hours	0	4.90	1.90	2.50	3.50	0	21.90	4.00
CCTV compensatory hours	0	0	10.2	0	0	0	0	0
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.003**	**0.004**	**0.004**	**0.001**	**0.001**	**0.001**	**0.002**	**0.002**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Program failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: January 23, 2004

North Anna 1

1Q/2004 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned scrams	0	0	0	0	2.0	0	0	0
Critical hours	2183.0	2208.0	2209.0	1273.7	1549.9	2208.0	2209.0	2051.8
Indicator value	**0**	**0**	**0**	**0**	**1.9**	**1.9**	**1.9**	**1.7**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2183.0	2208.0	2209.0	1273.7	1549.9	2208.0	2209.0	2051.8
Indicator value	**0.9**	**0.8**	**0.8**	**0.9**	**0**	**0**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	37.82	25.48	7.36	4.61	2.67	50.35	9.10	6.20
Unplanned unavailable hours	0	0	9.67	77.40	23.50	23.00	0	104.52
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1723.64	1677.40	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	53.49	29.59	10.60	7.69	7.48	54.00	14.39	8.02
Unplanned unavailable hours	0	0	11.80	0	3.88	0	18.21	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1723.64	1806.70	2208.00	2209.00	2184.00
Indicator value	**1.4%**	**1.5%**	**1.3%**	**1.2%**	**1.3%**	**1.5%**	**1.4%**	**1.5%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0.73	0.87	4.29	0	2.37	2.53	1.43	3.73
Unplanned unavailable hours	42.98	0	0.65	3.08	0.12	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1285.22	1836.99	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	2.83	3.22	2.15	18.40	0.93	2.97	1.95	1.85
Unplanned unavailable hours	42.98	0	0	6.45	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1285.22	1836.99	2208.00	2209.00	2184.00
Indicator value	**0.4%**	**0.5%**	**0.4%**	**0.5%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	1.17	3.20	7.57	0.35	4.50	1.50	12.67	6.40
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1285.22	1836.99	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	0.83	6.05	2.28	12.18	0	3.41	11.13	1.25
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1285.22	1836.99	2208.00	2209.00	2184.00
Train 3								
Planned unavailable hours	5.15	4.28	4.80	0.33	9.81	10.45	6.48	5.32
Unplanned unavailable hours	0	0	0	0	3.27	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1283.17	1829.18	2208.00	2209.00	2184.00
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.3%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	15.32	19.39	2.75	0	4.65	16.60	28.03	4.25
Unplanned unavailable hours	0	0	52.33	2.50	1.82	1.65	0	2.53
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1287.27	1844.79	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	17.60	10.86	10.03	9.97	1.73	7.56	23.37	30.21
Unplanned unavailable hours	0	0	57.50	67.18	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1287.27	1844.79	2208.00	2209.00	2184.00
Train 3								
Planned unavailable hours	0	0	37.17	3.20	0	10.15	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1414.64	2106.56	2208.00	2209.00	2184.00
Train 4								
Planned unavailable hours	0	0	0	2.98	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1414.64	2106.56	2208.00	2209.00	2184.00
Indicator value	**0.4%**	**0.4%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/02**	**5/02**	**6/02**	**7/02**	**8/02**	**9/02**	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**
Maximum activity	0.000660	0.000684	0.000637	0.000684	0.000769	0.000872	0.000815	0.000797	0.000852	0.000809	0.000947	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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**

Reactor Coolant System Activity	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**
Maximum activity	0.000412	0.000495	0.000410	0.000513	0.000458	0.000705	0.000527	0.000559	0.000534	0.000546	0.000561	0.000594
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
Indicator value	**0**	**0**	**0**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/02**	**5/02**	**6/02**	**7/02**	**8/02**	**9/02**	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**
Maximum leakage	0.201	0.191	0.175	0.192	0.215	0.207	0.263	0.257	0.235	0.299	0.267	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	**2.0**	**1.9**	**1.8**	**1.9**	**2.2**	**2.1**	**2.6**	**2.6**	**2.4**	**3.0**	**2.7**	**N/A**

Reactor Coolant System Leakage	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**
Maximum leakage	0.212	0.272	0.192	0.179	0.173	0.135	0.140	0.136	0.132	0.097	0.113	0.188
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	**2.1**	**2.7**	**1.9**	**1.8**	**1.7**	**1.3**	**1.4**	**1.4**	**1.3**	**1.0**	**1.1**	**1.9**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Successful opportunities	14.0	21.0	10.0	30.0	108.0	3.0	25.0	31.0
Total opportunities	15.0	21.0	10.0	32.0	108.0	3.0	35.0	32.0
Indicator value	**95.6%**	**96.0%**	**95.8%**	**97.3%**	**98.2%**	**98.1%**	**94.3%**	**94.5%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Participating Key personnel	123.0	127.0	127.0	124.0	151.0	152.0	150.0	150.0
Total Key personnel	131.0	132.0	128.0	124.0	152.0	153.0	152.0	152.0
Indicator value	**93.9%**	**96.2%**	**99.2%**	**100.0%**	**99.3%**	**99.3%**	**98.7%**	**98.7%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Successful siren-tests	432	431	434	431	436	436	435	440
Total sirens-tests	434	434	434	434	436	441	441	441
Indicator value	**99.5%**	**99.5%**	**99.7%**	**99.5%**	**99.7%**	**99.5%**	**99.2%**	**99.3%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
High radiation area occurrences	0	1	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**	**1**	**1**	**1**	**1**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Protected Area Security Performance Index

Thresholds: White > 0.080

Notes

Protected Area Security Performance Index	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
IDS compensatory hours	4.90	1.90	2.50	3.50	0	21.90	4.00	127.10
CCTV compensatory hours	0	10.2	0	0	0	0	0	1.5
IDS normalization factor	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
CCTV normalization factor	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Index Value	**0.004**	**0.004**	**0.001**	**0.001**	**0.001**	**0.002**	**0.002**	**0.009**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

Personnel Screening Program	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Program failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

FFD/Personnel Reliability	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Program Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: April 22, 2004

North Anna 1

2Q/2004 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned scrams	0	0	0	2.0	0	0	0	0
Critical hours	2208.0	2209.0	1273.7	1549.9	2208.0	2209.0	2051.8	2183.0
Indicator value	**0**	**0**	**0**	**1.9**	**1.9**	**1.9**	**1.7**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	1273.7	1549.9	2208.0	2209.0	2051.8	2183.0
Indicator value	**0.8**	**0.8**	**0.9**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	25.48	7.36	4.61	2.67	50.35	9.10	6.20	37.97
Unplanned unavailable hours	0	9.67	77.40	23.50	23.00	0	104.52	2.50
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1723.64	1677.40	2208.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	29.59	10.60	7.69	7.48	54.00	14.39	8.02	27.52
Unplanned unavailable hours	0	11.80	0	3.88	0	18.21	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1723.64	1806.70	2208.00	2209.00	2184.00	2183.00
Indicator value	**1.5%**	**1.3%**	**1.2%**	**1.3%**	**1.5%**	**1.4%**	**1.5%**	**1.5%**

Licensee Comments:

2Q/01: Revised to incorporate 0.25 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	2.49	7.14	1.15	5.65	5.51	2.38	5.95	4.08
Unplanned unavailable hours	0	0.65	3.08	0.12	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1285.22	1836.99	2208.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	6.37	3.90	19.77	5.02	5.79	5.04	3.12	5.05
Unplanned unavailable hours	0	0	6.45	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1285.22	1836.99	2208.00	2209.00	2184.00	2183.00
Indicator value	**0.5%**	**0.5%**	**0.6%**	**0.4%**	**0.4%**	**0.4%**	**0.5%**	**0.5%**

Licensee Comments:

1Q/04: Revised to incorporate 3.49 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

4Q/03: Revised to incorporate 4.04 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

3Q/03: Revised to incorporate 5.80 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

2Q/03: Revised to incorporate 7.67 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

1Q/03: Revised to incorporate 2.52 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

4Q/02: Revised to incorporate 4.60 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on

the color of the indicator.

3Q/02: Revised to incorporate 4.77 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

2Q/02: Revised to incorporate 7.78 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

1Q/02: Revised to incorporate 5.69 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

4Q/01: Revised to incorporate 8.96 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

3Q/01: Revised to incorporate 1.42 planned, unavailable hrs. accrued during SSPS Testing.(FAQ # 290) This change had no affect on the color of the indicator.

2Q/01: Revised to incorporate 5.87 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	4.82	10.42	1.50	7.78	4.48	13.62	8.62	4.17
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1285.22	1836.99	2208.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	9.20	4.03	13.52	4.09	6.23	14.22	2.52	6.25
Unplanned unavailable hours	0	0	0	0	0	0	0	0

Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1285.22	1836.99	2208.00	2209.00	2184.00	2183.00
Train 3								
Planned unavailable hours	4.28	4.80	0.33	9.81	10.45	6.48	5.32	9.92
Unplanned unavailable hours	0	0	0	3.27	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1283.17	1829.18	2208.00	2209.00	2184.00	2183.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments:

1Q/04: Revised to incorporate 3.49 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

4Q/03: Revised to incorporate 4.04 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

3Q/03: Revised to incorporate 5.80 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

2Q/03: Revised to incorporate 7.37 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

1Q/03: Revised to incorporate 2.49 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

4Q/02: Revised to incorporate 4.60 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

3Q/02: Revised to incorporate 4.77 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

2Q/02: Revised to incorporate 6.60 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

1Q/02: Revised to incorporate 4.49 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

4Q/01: Revised to incorporate 4.09 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

3Q/01: Revised to incorporate 1.42 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

2Q/01: Revised to incorporate 4.65 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	21.01	5.60	1.15	7.93	19.58	28.98	6.47	5.95
Unplanned unavailable hours	0	52.33	2.50	1.82	1.65	0	2.53	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1287.27	1844.79	2208.00	2209.00	2184.00	2183.00
Train 2								
Planned unavailable hours	14.00	11.78	11.30	5.82	10.31	26.45	31.47	15.52
Unplanned unavailable hours	0	57.50	67.18	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1287.27	1844.79	2208.00	2209.00	2184.00	2183.00
Train 3								
Planned unavailable hours	0	37.17	3.20	0	10.15	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1414.64	2106.56	2208.00	2209.00	2184.00	2183.00
Train 4								
Planned unavailable hours	0	0	2.98	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1414.64	2106.56	2208.00	2209.00	2184.00	2183.00
Indicator value	**0.5%**	**0.6%**	**0.7%**	**0.6%**	**0.6%**	**0.7%**	**0.7%**	**0.7%**

Licensee Comments:

1Q/04: Revised to incorporate 3.48 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

4Q/03: Revised to incorporate 4.03 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

3Q/03: Revised to incorporate 5.73 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

2Q/03: Revised to incorporate 7.37 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

1Q/03: Revised to incorporate 2.48 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

4Q/02: Revised to incorporate 4.60 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

3Q/02: Revised to incorporate 4.76 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

2Q/02: Revised to incorporate 6.59 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

1Q/02: Revised to incorporate 5.76 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

4Q/01: Revised to incorporate 8.96 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

3Q/01: Revised to incorporate 1.91 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

2Q/01: Revised to incorporate 4.65 planned, unavailable hrs. accrued during SSPS testing. (FAQ # 290) This change had no affect on the color of the indicator.

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/02	8/02	9/02	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03
Maximum activity	0.000684	0.000769	0.000872	0.000815	0.000797	0.000852	0.000809	0.000947	N/A	0.000412	0.000495	0.000410
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0**	**0**	**0**

Reactor Coolant System Activity	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04
Maximum activity	0.000513	0.000458	0.000705	0.000527	0.000559	0.000534	0.000546	0.000561	0.000594	0.000595	0.000600	0.000633
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
Indicator value	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/02**	**8/02**	**9/02**	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**
Maximum leakage	0.192	0.215	0.207	0.263	0.257	0.235	0.299	0.267	N/A	0.212	0.272	0.192
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	**1.9**	**2.2**	**2.1**	**2.6**	**2.6**	**2.4**	**3.0**	**2.7**	**N/A**	**2.1**	**2.7**	**1.9**
Reactor Coolant System Leakage	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**
Maximum leakage	0.179	0.173	0.135	0.140	0.136	0.132	0.097	0.113	0.188	0.113	0.155	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
Indicator value	**1.8**	**1.7**	**1.3**	**1.4**	**1.4**	**1.3**	**1.0**	**1.1**	**1.9**	**1.1**	**1.6**	**1.5**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful opportunities	21.0	10.0	30.0	108.0	3.0	25.0	31.0	11.0
Total opportunities	21.0	10.0	32.0	108.0	3.0	35.0	32.0	11.0
Indicator value	**96.0%**	**95.8%**	**97.3%**	**98.2%**	**98.1%**	**94.3%**	**94.5%**	**94.8%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Participating Key personnel	127.0	127.0	124.0	151.0	152.0	150.0	150.0	147.0
Total Key personnel	132.0	128.0	124.0	152.0	153.0	152.0	152.0	151.0
Indicator value	**96.2%**	**99.2%**	**100.0%**	**99.3%**	**99.3%**	**98.7%**	**98.7%**	**97.4%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Successful siren-tests	431	434	431	436	436	435	440	441
Total sirens-tests	434	434	434	436	441	441	441	443
Indicator value	**99.5%**	**99.7%**	**99.5%**	**99.7%**	**99.5%**	**99.2%**	**99.3%**	**99.2%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
High radiation area occurrences	1	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	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

North Anna 1

3Q/2004 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned scrams	0	0	2.0	0	0	0	0	0
Critical hours	2209.0	1273.7	1549.9	2208.0	2209.0	2051.8	2183.0	1753.2
Indicator value	**0**	**0**	**1.9**	**1.9**	**1.9**	**1.7**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	1273.7	1549.9	2208.0	2209.0	2051.8	2183.0	1753.2
Indicator value	**0.8**	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	7.36	4.61	2.67	50.35	9.10	6.20	37.97	7.38
Unplanned unavailable hours	9.67	77.40	23.50	23.00	0	104.52	2.50	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1723.64	1677.40	2208.00	2209.00	2184.00	2183.00	1987.51
Train 2								
Planned unavailable hours	10.60	7.69	7.48	54.00	14.39	8.02	27.52	8.46
Unplanned unavailable hours	11.80	0	3.88	0	18.21	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1723.64	1806.70	2208.00	2209.00	2184.00	2183.00	1987.51
Indicator value	**1.3%**	**1.2%**	**1.3%**	**1.5%**	**1.4%**	**1.5%**	**1.5%**	**1.5%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	7.14	1.15	5.65	5.51	2.38	5.95	4.08	6.15
Unplanned unavailable hours	0.65	3.08	0.12	0	0	0	0	3.30
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1285.22	1836.99	2208.00	2209.00	2184.00	2183.00	1764.70
Train 2								
Planned unavailable hours	3.90	19.77	5.02	5.79	5.04	3.12	5.05	4.46
Unplanned unavailable hours	0	6.45	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1285.22	1836.99	2208.00	2209.00	2184.00	2183.00	1764.70
Indicator value	**0.5%**	**0.6%**	**0.4%**	**0.4%**	**0.4%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	10.42	1.50	7.78	4.48	13.62	8.62	4.17	5.35
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1285.22	1836.99	2208.00	2209.00	2184.00	2183.00	1762.57
Train 2								
Planned unavailable hours	4.03	13.52	4.09	6.23	14.22	2.52	6.25	2.72
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1285.22	1836.99	2208.00	2209.00	2184.00	2183.00	1762.57
Train 3								
Planned unavailable hours	4.80	0.33	9.81	10.45	6.48	5.32	9.92	0
Unplanned unavailable hours	0	0	3.27	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1283.17	1829.18	2208.00	2209.00	2184.00	2183.00	1762.57
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	5.60	1.15	7.93	19.58	28.98	6.47	5.95	21.85
Unplanned unavailable hours	52.33	2.50	1.82	1.65	0	2.53	0	160.82
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1287.27	1844.79	2208.00	2209.00	2184.00	2183.00	1764.70
Train 2								
Planned unavailable hours	11.78	11.30	5.82	10.31	26.45	31.47	15.52	2.95
Unplanned unavailable hours	57.50	67.18	0	0	0	0	0	81.52
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1287.27	1844.79	2208.00	2209.00	2184.00	2183.00	1764.70
Train 3								
Planned unavailable hours	37.17	3.20	0	10.15	0	0	0	3.33
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1414.64	2106.56	2208.00	2209.00	2184.00	2183.00	2029.98
Train 4								
Planned unavailable hours	0	2.98	0	0	0	0	0	5.27
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1414.64	2106.56	2208.00	2209.00	2184.00	2183.00	2029.98
Indicator value	**0.6%**	**0.7%**	**0.6%**	**0.6%**	**0.7%**	**0.7%**	**0.7%**	**0.9%**

Licensee Comments:

3Q/04: Unplanned unavailability / 475.49 T/2 Fault Exposure hrs. due to the repair of a piping leak adjacent to LHSI Pump 1-SI-P-1A.

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**
Maximum activity	0.000815	0.000797	0.000852	0.000809	0.000947	N/A	0.000412	0.000495	0.000410	0.000513	0.000458	0.000705
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0**	**0**	**0**	**0.1**	**0**	**0.1**

Reactor Coolant System Activity	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**
Maximum activity	0.000527	0.000559	0.000534	0.000546	0.000561	0.000594	0.000595	0.000600	0.000633	0.000646	0.000676	0.000908
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum leakage	0.263	0.257	0.235	0.299	0.267	N/A	0.212	0.272	0.192	0.179	0.173	0.135
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	**2.6**	**2.6**	**2.4**	**3.0**	**2.7**	**N/A**	**2.1**	**2.7**	**1.9**	**1.8**	**1.7**	**1.3**

Reactor Coolant System Leakage	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	0.140	0.136	0.132	0.097	0.113	0.188	0.113	0.155	0.150	0.139	0.207	0.198
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	**1.4**	**1.4**	**1.3**	**1.0**	**1.1**	**1.9**	**1.1**	**1.6**	**1.5**	**1.4**	**2.1**	**2.0**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful opportunities	10.0	30.0	108.0	3.0	25.0	31.0	11.0	13.0
Total opportunities	10.0	32.0	108.0	3.0	35.0	32.0	11.0	14.0
Indicator value	**95.8%**	**97.3%**	**98.2%**	**98.1%**	**94.3%**	**94.5%**	**94.8%**	**94.3%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Participating Key personnel	127.0	124.0	151.0	152.0	150.0	150.0	147.0	149.0
Total Key personnel	128.0	124.0	152.0	153.0	152.0	152.0	151.0	156.0
Indicator value	**99.2%**	**100.0%**	**99.3%**	**99.3%**	**98.7%**	**98.7%**	**97.4%**	**95.5%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful siren-tests	434	431	436	436	435	437	436	450
Total sirens-tests	434	434	436	441	441	441	443	460
Indicator value	**99.7%**	**99.5%**	**99.7%**	**99.5%**	**99.2%**	**99.1%**	**98.8%**	**98.5%**

Licensee Comments:

3Q/04: Siren data revised after it was determined that siren # 45 has been inoperable since Feb '04.

2Q/04: Siren data revised after it was determined that siren # 45 has been inoperable since Feb '04.

1Q/04: Siren data revised after it was determined that siren # 45 has been inoperable since Feb '04.

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
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	**1**	**1**	**1**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: October 25, 2004

North Anna 1

4Q/2004 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned scrams	0	2.0	0	0	0	0	0	0
Critical hours	1273.7	1549.9	2208.0	2209.0	2051.8	2183.0	1753.2	2083.4
Indicator value	**0**	**1.9**	**1.9**	**1.9**	**1.7**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	1273.7	1549.9	2208.0	2209.0	2051.8	2183.0	1753.2	2083.4
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	4.61	2.67	50.35	9.10	6.20	37.97	7.38	8.36
Unplanned unavailable hours	77.40	23.50	23.00	0	104.52	2.50	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1723.64	1677.40	2208.00	2209.00	2184.00	2183.00	1987.51	2164.64
Train 2								
Planned unavailable hours	7.69	7.48	54.00	14.39	8.02	27.52	8.46	9.98
Unplanned unavailable hours	0	3.88	0	18.21	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1723.64	1806.70	2208.00	2209.00	2184.00	2183.00	1987.51	2164.64
Indicator value	**1.2%**	**1.3%**	**1.5%**	**1.4%**	**1.5%**	**1.5%**	**1.5%**	**1.5%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	1.15	5.65	5.51	2.38	5.95	4.08	6.15	4.39
Unplanned unavailable hours	3.08	0.12	0	0	0	0	3.30	2.73
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1285.22	1836.99	2208.00	2209.00	2184.00	2183.00	1764.70	2115.35
Train 2								
Planned unavailable hours	19.77	5.02	5.79	5.04	3.12	5.05	4.46	3.39
Unplanned unavailable hours	6.45	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1285.22	1836.99	2208.00	2209.00	2184.00	2183.00	1764.70	2115.35
Indicator value	**0.6%**	**0.4%**	**0.4%**	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	1.50	7.78	4.48	13.62	8.62	4.17	5.35	5.22
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1285.22	1836.99	2208.00	2209.00	2184.00	2183.00	1762.57	2110.42
Train 2								
Planned unavailable hours	13.52	4.09	6.23	14.22	2.52	6.25	2.72	2.50
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1285.22	1836.99	2208.00	2209.00	2184.00	2183.00	1762.57	2110.42
Train 3								
Planned unavailable hours	0.33	9.81	10.45	6.48	5.32	9.92	0	5.65
Unplanned unavailable hours	0	3.27	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1283.17	1829.18	2208.00	2209.00	2184.00	2183.00	1762.57	2110.42
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	1.15	7.93	19.58	28.98	6.47	5.95	21.85	6.09
Unplanned unavailable hours	2.50	1.82	1.65	0	2.53	0	160.82	9.80
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1287.27	1844.79	2208.00	2209.00	2184.00	2183.00	1764.70	2115.35
Train 2								
Planned unavailable hours	11.30	5.82	10.31	26.45	31.47	15.52	2.95	7.12
Unplanned unavailable hours	67.18	0	0	0	0	0	81.52	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1287.27	1844.79	2208.00	2209.00	2184.00	2183.00	1764.70	2115.35
Train 3								
Planned unavailable hours	3.20	0	10.15	0	0	0	3.33	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1414.64	2106.56	2208.00	2209.00	2184.00	2183.00	2029.98	2164.64
Train 4								
Planned unavailable hours	2.98	0	0	0	0	0	5.27	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1414.64	2106.56	2208.00	2209.00	2184.00	2183.00	2029.98	2164.64
Indicator value	**0.7%**	**0.6%**	**0.6%**	**0.7%**	**0.7%**	**0.7%**	**0.9%**	**0.9%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**
Maximum activity	0.000809	0.000947	N/A	0.000412	0.000495	0.000410	0.000513	0.000458	0.000705	0.000527	0.000559	0.000534
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
Indicator value	**0.1**	**0.1**	**N/A**	**0**	**0**	**0**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**
Maximum activity	0.000546	0.000561	0.000594	0.000595	0.000600	0.000633	0.000646	0.000676	0.000908	0.000360	0.000285	0.000389
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**
Maximum leakage	0.299	0.267	N/A	0.212	0.272	0.192	0.179	0.173	0.135	0.140	0.136	0.132
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	**3.0**	**2.7**	**N/A**	**2.1**	**2.7**	**1.9**	**1.8**	**1.7**	**1.3**	**1.4**	**1.4**	**1.3**
Reactor Coolant System Leakage	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**
Maximum leakage	0.097	0.113	0.188	0.113	0.155	0.150	0.139	0.207	0.198	0.149	0.140	0.126
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	**1.0**	**1.1**	**1.9**	**1.1**	**1.6**	**1.5**	**1.4**	**2.1**	**2.0**	**1.5**	**1.4**	**1.3**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful opportunities	30.0	108.0	3.0	25.0	31.0	11.0	13.0	6.0
Total opportunities	32.0	108.0	3.0	35.0	32.0	11.0	14.0	6.0
Indicator value	**97.3%**	**98.2%**	**98.1%**	**94.3%**	**94.5%**	**94.8%**	**94.3%**	**94.2%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Participating Key personnel	124.0	151.0	152.0	150.0	150.0	147.0	149.0	142.0
Total Key personnel	124.0	152.0	153.0	152.0	152.0	151.0	156.0	146.0
Indicator value	**100.0%**	**99.3%**	**99.3%**	**98.7%**	**98.7%**	**97.4%**	**95.5%**	**97.3%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Successful siren-tests	431	436	436	435	437	436	450	461
Total sirens-tests	434	436	441	441	441	443	460	467
Indicator value	**99.5%**	**99.7%**	**99.5%**	**99.2%**	**99.1%**	**98.8%**	**98.5%**	**98.5%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
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	**1**	**1**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: March 9, 2005

North Anna 1

1Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Unplanned scrams	2.0	0	0	0	0	0	0	0
Critical hours	1549.9	2208.0	2209.0	2051.8	2183.0	1753.2	2083.4	2160.0
Indicator value	**1.9**	**1.9**	**1.9**	**1.7**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	1549.9	2208.0	2209.0	2051.8	2183.0	1753.2	2083.4	2160.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	2.67	50.35	9.10	6.20	37.97	7.38	8.36	6.61
Unplanned unavailable hours	23.50	23.00	0	104.52	2.50	0	0	14.22
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1677.40	2208.00	2209.00	2184.00	2183.00	1987.51	2164.64	2160.00
Train 2								
Planned unavailable hours	7.48	54.00	14.39	8.02	27.52	8.46	9.98	6.78
Unplanned unavailable hours	3.88	0	18.21	0	0	0	0	2.42
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1806.70	2208.00	2209.00	2184.00	2183.00	1987.51	2164.64	2160.00
Indicator value	**1.3%**	**1.5%**	**1.4%**	**1.5%**	**1.5%**	**1.5%**	**1.5%**	**1.5%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	5.65	5.51	2.38	5.95	4.08	6.15	4.39	2.08
Unplanned unavailable hours	0.12	0	0	0	0	3.30	2.73	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1836.99	2208.00	2209.00	2184.00	2183.00	1764.70	2115.35	2160.00
Train 2								
Planned unavailable hours	5.02	5.79	5.04	3.12	5.05	4.46	3.39	3.19
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1836.99	2208.00	2209.00	2184.00	2183.00	1764.70	2115.35	2160.00
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	7.78	4.48	13.62	8.62	4.17	5.35	5.22	10.26
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1836.99	2208.00	2209.00	2184.00	2183.00	1762.57	2110.42	2160.00
Train 2								
Planned unavailable hours	4.09	6.23	14.22	2.52	6.25	2.72	2.50	16.04
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1836.99	2208.00	2209.00	2184.00	2183.00	1762.57	2110.42	2160.00
Train 3								
Planned unavailable hours	9.81	10.45	6.48	5.32	9.92	0	5.65	7.70
Unplanned unavailable hours	3.27	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1829.18	2208.00	2209.00	2184.00	2183.00	1762.57	2110.42	2160.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	7.93	19.58	28.98	6.47	5.95	21.85	6.09	83.91
Unplanned unavailable hours	1.82	1.65	0	2.53	0	160.82	9.80	16.37
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1844.79	2208.00	2209.00	2184.00	2183.00	1764.70	2115.35	2160.00
Train 2								
Planned unavailable hours	5.82	10.31	26.45	31.47	15.52	2.95	7.12	29.53
Unplanned unavailable hours	0	0	0	0	0	81.52	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1844.79	2208.00	2209.00	2184.00	2183.00	1764.70	2115.35	2160.00
Train 3								
Planned unavailable hours	0	10.15	0	0	0	3.33	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2106.56	2208.00	2209.00	2184.00	2183.00	2029.98	2164.64	2160.00
Train 4								
Planned unavailable hours	0	0	0	0	0	5.27	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2106.56	2208.00	2209.00	2184.00	2183.00	2029.98	2164.64	2160.00
Indicator value	**0.6%**	**0.6%**	**0.7%**	**0.7%**	**0.7%**	**0.9%**	**0.9%**	**0.9%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**
Maximum activity	0.000412	0.000495	0.000410	0.000513	0.000458	0.000705	0.000527	0.000559	0.000534	0.000546	0.000561	0.000594
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
Indicator value	**0**	**0**	**0**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Reactor Coolant System Activity	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum activity	0.000595	0.000600	0.000633	0.000646	0.000676	0.000908	0.000360	0.000285	0.000389	0.000313	0.000338	0.000333
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**
Maximum leakage	0.212	0.272	0.192	0.179	0.173	0.135	0.140	0.136	0.132	0.097	0.113	0.188
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	**2.1**	**2.7**	**1.9**	**1.8**	**1.7**	**1.3**	**1.4**	**1.4**	**1.3**	**1.0**	**1.1**	**1.9**
Reactor Coolant System Leakage	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum leakage	0.113	0.155	0.150	0.139	0.207	0.198	0.149	0.140	0.126	0.125	0.107	0.100
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	**1.1**	**1.6**	**1.5**	**1.4**	**2.1**	**2.0**	**1.5**	**1.4**	**1.3**	**1.3**	**1.1**	**1.0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful opportunities	108.0	3.0	25.0	31.0	11.0	13.0	6.0	64.0
Total opportunities	108.0	3.0	35.0	32.0	11.0	14.0	6.0	68.0
Indicator value	**98.2%**	**98.1%**	**94.3%**	**94.5%**	**94.8%**	**94.3%**	**94.2%**	**94.2%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Participating Key personnel	151.0	152.0	150.0	150.0	147.0	149.0	142.0	159.0
Total Key personnel	152.0	153.0	152.0	152.0	151.0	156.0	146.0	159.0
Indicator value	**99.3%**	**99.3%**	**98.7%**	**98.7%**	**97.4%**	**95.5%**	**97.3%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Successful siren-tests	436	436	435	437	436	450	461	399
Total sirens-tests	436	441	441	441	443	460	467	469
Indicator value	**99.7%**	**99.5%**	**99.2%**	**99.1%**	**98.8%**	**98.5%**	**98.5%**	**94.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
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	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: June 17, 2005

North Anna 1

2Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2051.8	2183.0	1753.2	2083.4	2160.0	2183.0
Indicator value	**1.9**	**1.9**	**1.7**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	2051.8	2183.0	1753.2	2083.4	2160.0	2183.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	50.35	9.10	6.20	37.97	7.38	8.36	6.61	5.15
Unplanned unavailable hours	23.00	0	104.52	2.50	0	0	14.22	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	1987.51	2164.64	2160.00	2183.00
Train 2								
Planned unavailable hours	54.00	14.39	8.02	27.52	8.46	9.98	6.78	5.21
Unplanned unavailable hours	0	18.21	0	0	0	0	2.42	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	1987.51	2164.64	2160.00	2183.00
Indicator value	**1.5%**	**1.4%**	**1.5%**	**1.5%**	**1.5%**	**1.5%**	**1.5%**	**1.3%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	5.51	2.38	5.95	4.08	6.15	4.39	2.08	4.15
Unplanned unavailable hours	0	0	0	0	3.30	2.73	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	1764.70	2115.35	2160.00	2183.00
Train 2								
Planned unavailable hours	5.79	5.04	3.12	5.05	4.46	3.39	3.19	3.38
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	1764.70	2115.35	2160.00	2183.00
Indicator value	**0.4%**	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	4.48	13.62	8.62	4.17	5.35	5.22	10.26	4.35
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	1762.57	2110.42	2160.00	2183.00
Train 2								
Planned unavailable hours	6.23	14.22	2.52	6.25	2.72	2.50	16.04	2.40
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	1762.57	2110.42	2160.00	2183.00
Train 3								
Planned unavailable hours	10.45	6.48	5.32	9.92	0	5.65	7.70	3.57
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	1762.57	2110.42	2160.00	2183.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	19.58	28.98	6.47	5.95	21.85	6.09	83.91	9.32
Unplanned unavailable hours	1.65	0	2.53	0	160.82	9.80	16.37	4.48
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	1764.70	2115.35	2160.00	2183.00
Train 2								
Planned unavailable hours	10.31	26.45	31.47	15.52	2.95	7.12	29.53	13.55
Unplanned unavailable hours	0	0	0	0	81.52	0	0	16.22
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	1764.70	2115.35	2160.00	2183.00
Train 3								
Planned unavailable hours	10.15	0	0	0	3.33	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2029.98	2164.64	2160.00	2183.00
Train 4								
Planned unavailable hours	0	0	0	0	5.27	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2029.98	2164.64	2160.00	2183.00
Indicator value	**0.6%**	**0.7%**	**0.7%**	**0.7%**	**0.9%**	**0.9%**	**0.9%**	**0.9%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**
Maximum activity	0.000513	0.000458	0.000705	0.000527	0.000559	0.000534	0.000546	0.000561	0.000594	0.000595	0.000600	0.000633
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
Indicator value	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**
Maximum activity	0.000646	0.000676	0.000908	0.000360	0.000285	0.000389	0.000313	0.000338	0.000333	0.000334	0.000366	0.000373
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
Indicator value	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**
Maximum leakage	0.179	0.173	0.135	0.140	0.136	0.132	0.097	0.113	0.188	0.113	0.155	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
Indicator value	**1.8**	**1.7**	**1.3**	**1.4**	**1.4**	**1.3**	**1.0**	**1.1**	**1.9**	**1.1**	**1.6**	**1.5**
Reactor Coolant System Leakage	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**
Maximum leakage	0.139	0.207	0.198	0.149	0.140	0.126	0.125	0.107	0.100	0.106	0.100	0.105
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	**1.4**	**2.1**	**2.0**	**1.5**	**1.4**	**1.3**	**1.3**	**1.1**	**1.0**	**1.1**	**1.0**	**1.1**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful opportunities	3.0	25.0	31.0	11.0	13.0	6.0	64.0	53.0
Total opportunities	3.0	35.0	32.0	11.0	14.0	6.0	68.0	53.0
Indicator value	**98.1%**	**94.3%**	**94.5%**	**94.8%**	**94.3%**	**94.2%**	**94.2%**	**92.8%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Participating Key personnel	152.0	150.0	150.0	147.0	149.0	142.0	159.0	166.0
Total Key personnel	153.0	152.0	152.0	151.0	156.0	146.0	159.0	166.0
Indicator value	**99.3%**	**98.7%**	**98.7%**	**97.4%**	**95.5%**	**97.3%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Successful siren-tests	436	435	437	436	450	461	399	466
Total sirens-tests	441	441	441	443	460	467	469	469
Indicator value	**99.5%**	**99.2%**	**99.1%**	**98.8%**	**98.5%**	**98.5%**	**94.9%**	**95.2%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: August 3, 2005

North Anna 1

3Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2051.8	2183.0	1753.2	2083.4	2160.0	2183.0	2208.0
Indicator value	**1.9**	**1.7**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned power changes	0	0	0	0	1.0	0	0	1.0
Critical hours	2209.0	2051.8	2183.0	1753.2	2083.4	2160.0	2183.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**	**1.6**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	9.10	6.20	37.97	7.38	8.36	6.61	5.15	7.20
Unplanned unavailable hours	0	104.52	2.50	0	0	14.22	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	1987.51	2164.64	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	14.39	8.02	27.52	8.46	9.98	6.78	5.21	20.77
Unplanned unavailable hours	18.21	0	0	0	0	2.42	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	1987.51	2164.64	2160.00	2183.00	2208.00
Indicator value	**1.4%**	**1.5%**	**1.5%**	**1.5%**	**1.5%**	**1.5%**	**1.3%**	**1.2%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	2.38	5.95	4.08	6.15	4.39	2.08	4.15	7.50
Unplanned unavailable hours	0	0	0	3.30	2.73	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	1764.70	2115.35	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	5.04	3.12	5.05	4.46	3.39	3.19	3.38	4.40
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	1764.70	2115.35	2160.00	2183.00	2208.00
Indicator value	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	13.62	8.62	4.17	5.35	5.22	10.26	4.35	5.24
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	1762.57	2110.42	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	14.22	2.52	6.25	2.72	2.50	16.04	2.40	3.74
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	1762.57	2110.42	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	6.48	5.32	9.92	0	5.65	7.70	3.57	4.58
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	1762.57	2110.42	2160.00	2183.00	2208.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	28.98	6.47	5.95	21.85	6.09	83.91	9.32	14.58
Unplanned unavailable hours	0	2.53	0	160.82	9.80	16.37	4.48	22.21
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	1764.70	2115.35	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	26.45	31.47	15.52	2.95	7.12	29.53	13.55	14.36
Unplanned unavailable hours	0	0	0	81.52	0	0	16.22	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	1764.70	2115.35	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	0	0	3.33	0	0	0	0.83
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2029.98	2164.64	2160.00	2183.00	2208.00
Train 4								
Planned unavailable hours	0	0	0	5.27	0	0	0	13.28
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2029.98	2164.64	2160.00	2183.00	2208.00
Indicator value	**0.7%**	**0.7%**	**0.7%**	**0.9%**	**0.9%**	**0.9%**	**0.9%**	**1.0%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**
Maximum activity	0.000527	0.000559	0.000534	0.000546	0.000561	0.000594	0.000595	0.000600	0.000633	0.000646	0.000676	0.000908
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Reactor Coolant System Activity	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**
Maximum activity	0.000360	0.000285	0.000389	0.000313	0.000338	0.000333	0.000334	0.000366	0.000373	0.000390	0.000400	0.000421
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	0.140	0.136	0.132	0.097	0.113	0.188	0.113	0.155	0.150	0.139	0.207	0.198
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	**1.4**	**1.4**	**1.3**	**1.0**	**1.1**	**1.9**	**1.1**	**1.6**	**1.5**	**1.4**	**2.1**	**2.0**

Reactor Coolant System Leakage	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	6/05	7/05	8/05	9/05
Maximum leakage	0.149	0.140	0.126	0.125	0.107	0.100	0.106	0.100	0.105	0.136	0.124	0.119
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	**1.5**	**1.4**	**1.3**	**1.3**	**1.1**	**1.0**	**1.1**	**1.0**	**1.1**	**1.4**	**1.2**	**1.2**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Successful opportunities	25.0	31.0	11.0	13.0	6.0	64.0	53.0	6.0
Total opportunities	35.0	32.0	11.0	14.0	6.0	68.0	53.0	6.0
Indicator value	**94.3%**	**94.5%**	**94.8%**	**94.3%**	**94.2%**	**94.2%**	**92.8%**	**92.9%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Participating Key personnel	150.0	150.0	147.0	149.0	142.0	159.0	166.0	164.0
Total Key personnel	152.0	152.0	151.0	156.0	146.0	159.0	166.0	165.0
Indicator value	**98.7%**	**98.7%**	**97.4%**	**95.5%**	**97.3%**	**100.0%**	**100.0%**	**99.4%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Successful siren-tests	435	437	436	450	461	399	466	465
Total sirens-tests	441	441	443	460	467	469	469	469
Indicator value	**99.2%**	**99.1%**	**98.8%**	**98.5%**	**98.5%**	**94.9%**	**95.2%**	**95.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: November 3, 2005

North Anna 1

4Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2051.8	2183.0	1753.2	2083.4	2160.0	2183.0	2208.0	2209.0
Indicator value	**1.7**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned power changes	0	0	0	1.0	0	0	2.0	0
Critical hours	2051.8	2183.0	1753.2	2083.4	2160.0	2183.0	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**	**2.4**	**1.6**

Licensee Comments:

4Q/05: 08-05 data revised to reflect two power changes (08-03-05 and 08-05-05) verses 1.

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	6.20	37.97	7.38	8.36	6.61	5.15	7.20	7.70
Unplanned unavailable hours	104.52	2.50	0	0	14.22	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	1987.51	2164.64	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	8.02	27.52	8.46	9.98	6.78	5.21	20.77	7.74
Unplanned unavailable hours	0	0	0	0	2.42	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	1987.51	2164.64	2160.00	2183.00	2208.00	2209.00
Indicator value	**1.5%**	**1.5%**	**1.5%**	**1.5%**	**1.5%**	**1.3%**	**1.2%**	**1.2%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	5.95	4.08	6.15	4.39	2.08	4.15	7.50	2.40
Unplanned unavailable hours	0	0	3.30	2.73	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	1764.70	2115.35	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	3.12	5.05	4.46	3.39	3.19	3.38	4.40	4.50
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	1764.70	2115.35	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	8.62	4.17	5.35	5.22	10.26	4.35	5.24	1.78
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	1762.57	2110.42	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	2.52	6.25	2.72	2.50	16.04	2.40	3.74	2.52
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	1762.57	2110.42	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	5.32	9.92	0	5.65	7.70	3.57	4.58	2.78
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	1762.57	2110.42	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	6.47	5.95	21.85	6.09	83.91	9.32	14.58	3.78
Unplanned unavailable hours	2.53	0	160.82	9.80	16.37	4.48	22.21	107.02
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	1764.70	2115.35	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	31.47	15.52	2.95	7.12	29.53	13.55	14.36	7.96
Unplanned unavailable hours	0	0	81.52	0	0	16.22	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	1764.70	2115.35	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	3.33	0	0	0	0.83	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2029.98	2164.64	2160.00	2183.00	2208.00	2209.00
Train 4								
Planned unavailable hours	0	0	5.27	0	0	0	13.28	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2029.98	2164.64	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.7%**	**0.7%**	**0.9%**	**0.9%**	**0.9%**	**0.9%**	**1.0%**	**0.9%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**
Maximum activity	0.000546	0.000561	0.000594	0.000595	0.000600	0.000633	0.000646	0.000676	0.000908	0.000360	0.000285	0.000389
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**
Reactor Coolant System Activity	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**
Maximum activity	0.000313	0.000338	0.000333	0.000334	0.000366	0.000373	0.000390	0.000400	0.000421	0.000490	0.000466	0.000562
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**
Maximum leakage	0.097	0.113	0.188	0.113	0.155	0.150	0.139	0.207	0.198	0.149	0.140	0.126
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	**1.0**	**1.1**	**1.9**	**1.1**	**1.6**	**1.5**	**1.4**	**2.1**	**2.0**	**1.5**	**1.4**	**1.3**
Reactor Coolant System Leakage	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**
Maximum leakage	0.125	0.107	0.100	0.106	0.100	0.105	0.136	0.124	0.119	0.111	0.105	0.098
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	**1.3**	**1.1**	**1.0**	**1.1**	**1.0**	**1.1**	**1.4**	**1.2**	**1.2**	**1.1**	**1.1**	**1.0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful opportunities	31.0	11.0	13.0	6.0	64.0	53.0	6.0	35.0
Total opportunities	32.0	11.0	14.0	6.0	68.0	53.0	6.0	35.0
Indicator value	**94.5%**	**94.8%**	**94.3%**	**94.2%**	**94.2%**	**92.8%**	**92.9%**	**97.3%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Participating Key personnel	150.0	147.0	149.0	142.0	159.0	166.0	164.0	156.0
Total Key personnel	152.0	151.0	156.0	146.0	159.0	166.0	165.0	158.0
Indicator value	**98.7%**	**97.4%**	**95.5%**	**97.3%**	**100.0%**	**100.0%**	**99.4%**	**98.7%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Successful siren-tests	437	436	450	461	399	466	465	470
Total sirens-tests	441	443	460	467	469	469	469	474
Indicator value	**99.1%**	**98.8%**	**98.5%**	**98.5%**	**94.9%**	**95.2%**	**95.6%**	**95.7%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: January 30, 2006

North Anna 1

1Q/2006 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	1753.2	2083.4	2160.0	2183.0	2208.0	2209.0	1605.3
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned power changes	0	0	1.0	0	0	2.0	0	1.0
Critical hours	2183.0	1753.2	2083.4	2160.0	2183.0	2208.0	2209.0	1605.3
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.9**	**2.4**	**1.6**	**2.6**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

Thresholds: White > 2.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Emergency AC Power	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	37.97	7.38	8.36	6.61	5.15	7.20	7.70	7.85
Unplanned unavailable hours	2.50	0	0	14.22	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1987.51	2164.64	2160.00	2183.00	2208.00	2209.00	1925.69
Train 2								
Planned unavailable hours	27.52	8.46	9.98	6.78	5.21	20.77	7.74	7.75
Unplanned unavailable hours	0	0	0	2.42	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1987.51	2164.64	2160.00	2183.00	2208.00	2209.00	1925.69
Indicator value	**1.5%**	**1.5%**	**1.5%**	**1.5%**	**1.3%**	**1.2%**	**1.2%**	**1.0%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	4.08	6.15	4.39	2.08	4.15	7.50	2.40	4.51
Unplanned unavailable hours	0	3.30	2.73	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1764.70	2115.35	2160.00	2183.00	2208.00	2209.00	1671.90
Train 2								
Planned unavailable hours	5.05	4.46	3.39	3.19	3.38	4.40	4.50	2.28
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1764.70	2115.35	2160.00	2183.00	2208.00	2209.00	1671.90
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.3%**	**0.3%**	**0.3%**	**0.2%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

Thresholds: White > 2.0% Yellow > 6.0% Red > 12.0%

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	4.17	5.35	5.22	10.26	4.35	5.24	1.78	2.43
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1762.57	2110.42	2160.00	2183.00	2208.00	2209.00	1652.40
Train 2								
Planned unavailable hours	6.25	2.72	2.50	16.04	2.40	3.74	2.52	12.92
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1762.57	2110.42	2160.00	2183.00	2208.00	2209.00	1652.40
Train 3								
Planned unavailable hours	9.92	0	5.65	7.70	3.57	4.58	2.78	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1762.57	2110.42	2160.00	2183.00	2208.00	2209.00	1652.40
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

Thresholds: White > 1.5% Yellow > 5.0% Red > 10.0%

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	5.95	21.85	6.09	83.91	9.32	14.58	3.78	16.55
Unplanned unavailable hours	0	160.82	9.80	16.37	4.48	22.21	107.02	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1764.70	2115.35	2160.00	2183.00	2208.00	2209.00	1689.88
Train 2								
Planned unavailable hours	15.52	2.95	7.12	29.53	13.55	14.36	7.96	15.09
Unplanned unavailable hours	0	81.52	0	0	16.22	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1764.70	2115.35	2160.00	2183.00	2208.00	2209.00	1689.88
Train 3								
Planned unavailable hours	0	3.33	0	0	0	0.83	0	2.00
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2029.98	2164.64	2160.00	2183.00	2208.00	2209.00	1927.54
Train 4								
Planned unavailable hours	0	5.27	0	0	0	13.28	0	2.03
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2029.98	2164.64	2160.00	2183.00	2208.00	2209.00	1927.54
Indicator value	**0.7%**	**0.9%**	**0.9%**	**0.9%**	**0.9%**	**1.0%**	**0.9%**	**0.9%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum activity	0.000595	0.000600	0.000633	0.000646	0.000676	0.000908	0.000360	0.000285	0.000389	0.000313	0.000338	0.000333
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**
Maximum activity	0.000334	0.000366	0.000373	0.000390	0.000400	0.000421	0.000490	0.000466	0.000562	0.000494	0.000481	0.000533
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0**	**0**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum leakage	0.113	0.155	0.150	0.139	0.207	0.198	0.149	0.140	0.126	0.125	0.107	0.100
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	**1.1**	**1.6**	**1.5**	**1.4**	**2.1**	**2.0**	**1.5**	**1.4**	**1.3**	**1.3**	**1.1**	**1.0**
Reactor Coolant System Leakage	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**
Maximum leakage	0.106	0.100	0.105	0.136	0.124	0.119	0.111	0.105	0.098	0.101	0.123	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
Indicator value	**1.1**	**1.0**	**1.1**	**1.4**	**1.2**	**1.2**	**1.1**	**1.1**	**1.0**	**1.0**	**1.2**	**1.2**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful opportunities	11.0	13.0	6.0	64.0	53.0	6.0	35.0	29.0
Total opportunities	11.0	14.0	6.0	68.0	53.0	6.0	35.0	31.0
Indicator value	**94.8%**	**94.3%**	**94.2%**	**94.2%**	**92.8%**	**92.9%**	**97.3%**	**96.9%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Participating Key personnel	147.0	149.0	142.0	159.0	166.0	164.0	156.0	159.0
Total Key personnel	151.0	156.0	146.0	159.0	166.0	165.0	158.0	159.0
Indicator value	**97.4%**	**95.5%**	**97.3%**	**100.0%**	**100.0%**	**99.4%**	**98.7%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Successful siren-tests	436	450	461	399	466	465	470	476
Total sirens-tests	443	460	467	469	469	469	474	476
Indicator value	**98.8%**	**98.5%**	**98.5%**	**94.9%**	**95.2%**	**95.6%**	**95.7%**	**99.4%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: May 5, 2006

North Anna 1

2Q/2006 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1753.2	2083.4	2160.0	2183.0	2208.0	2209.0	1605.3	1998.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Unplanned power changes	0	1.0	0	0	2.0	0	1.0	0
Critical hours	1753.2	2083.4	2160.0	2183.0	2208.0	2209.0	1605.3	1998.2
Indicator value	**0**	**0.9**	**0.9**	**0.9**	**2.4**	**1.6**	**2.6**	**2.6**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								2.20E-08
URI (ΔCDF)								7.00E-07
PLE								NO
Indicator value								**7.22E-07**

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/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								-1.80E-08
URI (ΔCDF)								-7.30E-09
PLE								NO
Indicator value								**-2.53E-08**

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/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								-2.30E-08
URI (ΔCDF)								-3.40E-08
PLE								NO
Indicator value								**-5.70E-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/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								8.50E-08
URI (ΔCDF)								-7.50E-09
PLE								NO
Indicator value								**7.75E-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/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								3.70E-09
URI (ΔCDF)								4.30E-08
PLE								NO
Indicator value								**4.67E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**
Maximum activity	0.000646	0.000676	0.000908	0.000360	0.000285	0.000389	0.000313	0.000338	0.000333	0.000334	0.000366	0.000373
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
Indicator value	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**
Maximum activity	0.000390	0.000400	0.000421	0.000490	0.000466	0.000562	0.000494	0.000481	0.000533	0.000224	0.000264	0.000260
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.1**	**0**	**0**	**0.1**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**
Maximum leakage	0.139	0.207	0.198	0.149	0.140	0.126	0.125	0.107	0.100	0.106	0.100	0.105
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	**1.4**	**2.1**	**2.0**	**1.5**	**1.4**	**1.3**	**1.3**	**1.1**	**1.0**	**1.1**	**1.0**	**1.1**
Reactor Coolant System Leakage	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**
Maximum leakage	0.136	0.124	0.119	0.111	0.105	0.098	0.101	0.123	0.116	0.162	0.147	0.139
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	**1.4**	**1.2**	**1.2**	**1.1**	**1.1**	**1.0**	**1.0**	**1.2**	**1.2**	**1.6**	**1.5**	**1.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful opportunities	13.0	6.0	64.0	53.0	6.0	35.0	29.0	17.0
Total opportunities	14.0	6.0	68.0	53.0	6.0	35.0	31.0	18.0
Indicator value	**94.3%**	**94.2%**	**94.2%**	**92.8%**	**92.9%**	**97.3%**	**96.9%**	**96.5%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Participating Key personnel	149.0	142.0	159.0	166.0	164.0	156.0	159.0	158.0
Total Key personnel	156.0	146.0	159.0	166.0	165.0	158.0	159.0	158.0
Indicator value	**95.5%**	**97.3%**	**100.0%**	**100.0%**	**99.4%**	**98.7%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful siren-tests	450	461	399	466	465	470	476	472
Total sirens-tests	460	467	469	469	469	474	476	476
Indicator value	**98.5%**	**98.5%**	**94.9%**	**95.2%**	**95.6%**	**95.7%**	**99.4%**	**99.4%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: August 2, 2006

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3Q/2006 Performance Indicators

Licensee's General Comments: none

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2083.4	2160.0	2183.0	2208.0	2209.0	1605.3	1998.2	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned power changes	1.0	0	0	2.0	0	1.0	0	0
Critical hours	2083.4	2160.0	2183.0	2208.0	2209.0	1605.3	1998.2	2208.0
Indicator value	**0.9**	**0.9**	**0.9**	**2.4**	**1.6**	**2.6**	**2.6**	**0.9**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							2.20E-08	1.60E-08
URI (ΔCDF)							7.00E-07	7.00E-07
PLE							NO	NO
Indicator value							**7.22E-07**	**7.16E-07**

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	**4Q/04**	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**
UAI (ΔCDF)							-1.80E-08	-1.80E-08
URI (ΔCDF)							-7.30E-09	-7.30E-09
PLE							NO	NO
Indicator value							**-2.53E-08**	**-2.53E-08**

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	**4Q/04**	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**
UAI (ΔCDF)							-2.30E-08	-2.30E-08
URI (ΔCDF)							-3.40E-08	-3.40E-08
PLE							NO	NO
Indicator value							**-5.70E-08**	**-5.70E-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	**4Q/04**	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**
UAI (ΔCDF)							8.50E-08	8.60E-08
URI (ΔCDF)							-7.50E-09	-7.50E-09
PLE							NO	NO
Indicator value							**7.75E-08**	**7.85E-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	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							3.70E-09	3.70E-09
URI (ΔCDF)							4.30E-08	4.30E-08
PLE							NO	NO
Indicator value							**4.67E-08**	**4.67E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**
Maximum activity	0.000360	0.000285	0.000389	0.000313	0.000338	0.000333	0.000334	0.000366	0.000373	0.000390	0.000400	0.000421
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**
Maximum activity	0.000490	0.000466	0.000562	0.000494	0.000481	0.000533	0.000224	0.000264	0.000260	0.000285	0.000279	0.000310
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
Indicator value	**0**	**0**	**0.1**	**0**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**
Maximum leakage	0.149	0.140	0.126	0.125	0.107	0.100	0.106	0.100	0.105	0.136	0.124	0.119
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	**1.5**	**1.4**	**1.3**	**1.3**	**1.1**	**1.0**	**1.1**	**1.0**	**1.1**	**1.4**	**1.2**	**1.2**
Reactor Coolant System Leakage	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**
Maximum leakage	0.111	0.105	0.098	0.101	0.123	0.116	0.162	0.147	0.139	0.149	0.110	0.107
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	**1.1**	**1.1**	**1.0**	**1.0**	**1.2**	**1.2**	**1.6**	**1.5**	**1.4**	**1.5**	**1.1**	**1.1**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful opportunities	6.0	64.0	53.0	6.0	35.0	29.0	17.0	21.0
Total opportunities	6.0	68.0	53.0	6.0	35.0	31.0	18.0	29.0
Indicator value	**94.2%**	**94.2%**	**92.8%**	**92.9%**	**97.3%**	**96.9%**	**96.5%**	**93.9%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Participating Key personnel	142.0	159.0	166.0	164.0	156.0	159.0	158.0	154.0
Total Key personnel	146.0	159.0	166.0	165.0	158.0	159.0	158.0	156.0
Indicator value	**97.3%**	**100.0%**	**100.0%**	**99.4%**	**98.7%**	**100.0%**	**100.0%**	**98.7%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Successful siren-tests	461	399	466	465	470	476	472	473
Total sirens-tests	467	469	469	469	474	476	476	476
Indicator value	**98.5%**	**94.9%**	**95.2%**	**95.6%**	**95.7%**	**99.4%**	**99.4%**	**99.4%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: November 6, 2006

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4Q/2006 Performance Indicators

Licensee's General Comments: none

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2160.0	2183.0	2208.0	2209.0	1605.3	1998.2	2208.0	2104.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned power changes	0	0	2.0	0	1.0	0	0	0
Critical hours	2160.0	2183.0	2208.0	2209.0	1605.3	1998.2	2208.0	2104.0
Indicator value	**0.9**	**0.9**	**2.4**	**1.6**	**2.6**	**2.6**	**0.9**	**0.9**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**
UAI (ΔCDF)						2.20E-08	1.60E-08	1.30E-08
URI (ΔCDF)						7.00E-07	7.00E-07	4.70E-07
PLE						NO	NO	NO
Indicator value						**7.22E-07**	**7.16E-07**	**4.83E-07**

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	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**
UAI (ΔCDF)						-1.80E-08	-1.80E-08	-1.80E-08
URI (ΔCDF)						-8.50E-09	-8.40E-09	-8.50E-09
PLE						NO	NO	NO
Indicator value						**-2.65E-08**	**-2.64E-08**	**-2.65E-08**

Licensee Comments:

4Q/06: Estimated 2Q and 3Q/06 HPSI test demands revised from 7 to 16 resulting in a more conservative -7.3E-09 to -8.5E-09 URI change with no change in color.

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/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						-2.30E-08	-2.30E-08	-2.30E-08
URI (ΔCDF)						-3.40E-08	-3.40E-08	-3.40E-08
PLE						NO	NO	NO
Indicator value						**-5.70E-08**	**-5.70E-08**	**-5.70E-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	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**
UAI (ΔCDF)						8.50E-08	8.60E-08	8.40E-08
URI (ΔCDF)						-7.50E-09	-7.50E-09	-7.50E-09
PLE						NO	NO	NO
Indicator value						**7.75E-08**	**7.85E-08**	**7.65E-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	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						3.70E-09	3.70E-09	3.70E-09
URI (ΔCDF)						4.30E-08	4.30E-08	4.50E-08
PLE						NO	NO	NO
Indicator value						**4.67E-08**	**4.67E-08**	**4.87E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**
Maximum activity	0.000313	0.000338	0.000333	0.000334	0.000366	0.000373	0.000390	0.000400	0.000421	0.000490	0.000466	0.000562
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**
Reactor Coolant System Activity	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**
Maximum activity	0.000494	0.000481	0.000533	0.000224	0.000264	0.000260	0.000285	0.000279	0.000310	0.000345	0.000429	0.000542
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
Indicator value	**0**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**
Maximum leakage	0.125	0.107	0.100	0.106	0.100	0.105	0.136	0.124	0.119	0.111	0.105	0.098
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	**1.3**	**1.1**	**1.0**	**1.1**	**1.0**	**1.1**	**1.4**	**1.2**	**1.2**	**1.1**	**1.1**	**1.0**
Reactor Coolant System Leakage	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**
Maximum leakage	0.101	0.123	0.116	0.162	0.147	0.139	0.149	0.110	0.107	0.099	0.152	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
Indicator value	**1.0**	**1.2**	**1.2**	**1.6**	**1.5**	**1.4**	**1.5**	**1.1**	**1.1**	**1.0**	**1.5**	**1.2**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful opportunities	64.0	53.0	6.0	35.0	29.0	17.0	21.0	59.0
Total opportunities	68.0	53.0	6.0	35.0	31.0	18.0	29.0	62.0
Indicator value	**94.2%**	**92.8%**	**92.9%**	**97.3%**	**96.9%**	**96.5%**	**93.9%**	**94.0%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Participating Key personnel	159.0	166.0	164.0	156.0	159.0	158.0	154.0	152.0
Total Key personnel	159.0	166.0	165.0	158.0	159.0	158.0	156.0	155.0
Indicator value	**100.0%**	**100.0%**	**99.4%**	**98.7%**	**100.0%**	**100.0%**	**98.7%**	**98.1%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Successful siren-tests	399	466	465	470	476	472	473	475
Total sirens-tests	469	469	469	474	476	476	476	476
Indicator value	**94.9%**	**95.2%**	**95.6%**	**95.7%**	**99.4%**	**99.4%**	**99.4%**	**99.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: February 7, 2007

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1Q/2007 Performance Indicators

Licensee's General Comments: none

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	2183.0	2208.0	2209.0	1605.3	1998.2	2208.0	2104.0	2137.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.8**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned power changes	0	2.0	0	1.0	0	0	0	0
Critical hours	2183.0	2208.0	2209.0	1605.3	1998.2	2208.0	2104.0	2137.0
Indicator value	**0.9**	**2.4**	**1.6**	**2.6**	**2.6**	**0.9**	**0.9**	**0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					2.20E-08	1.60E-08	1.30E-08	-1.60E-08
URI (ΔCDF)					7.00E-07	7.00E-07	4.70E-07	2.50E-07
PLE					NO	NO	NO	NO
Indicator value					**7.22E-07**	**7.16E-07**	**4.83E-07**	**2.34E-07**

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	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08
URI (ΔCDF)					-8.50E-09	-8.40E-09	-8.50E-09	-8.40E-09
PLE					NO	NO	NO	NO
Indicator value					**-2.65E-08**	**-2.64E-08**	**-2.65E-08**	**-2.64E-08**

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	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					-2.30E-08	-2.30E-08	-2.30E-08	-2.30E-08
URI (ΔCDF)					-3.40E-08	-3.40E-08	-3.40E-08	-3.80E-08
PLE					NO	NO	NO	NO
Indicator value					**-5.70E-08**	**-5.70E-08**	**-5.70E-08**	**-6.10E-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	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					8.50E-08	8.60E-08	8.40E-08	8.40E-08
URI (ΔCDF)					-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09
PLE					NO	NO	NO	NO
Indicator value					**7.75E-08**	**7.85E-08**	**7.65E-08**	**7.65E-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	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
UAI (ΔCDF)					3.70E-09	3.70E-09	3.70E-09	3.70E-09
URI (ΔCDF)					4.30E-08	4.30E-08	4.50E-08	-2.00E-08
PLE					NO	NO	NO	NO
Indicator value					**4.67E-08**	**4.67E-08**	**4.87E-08**	**-1.63E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**
Maximum activity	0.000334	0.000366	0.000373	0.000390	0.000400	0.000421	0.000490	0.000466	0.000562	0.000494	0.000481	0.000533
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0**	**0**	**0.1**
Reactor Coolant System Activity	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**
Maximum activity	0.000224	0.000264	0.000260	0.000285	0.000279	0.000310	0.000345	0.000429	0.000542	0.000401	0.000420	0.000410
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**
Maximum leakage	0.106	0.100	0.105	0.136	0.124	0.119	0.111	0.105	0.098	0.101	0.123	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
Indicator value	**1.1**	**1.0**	**1.1**	**1.4**	**1.2**	**1.2**	**1.1**	**1.1**	**1.0**	**1.0**	**1.2**	**1.2**
Reactor Coolant System Leakage	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**
Maximum leakage	0.162	0.147	0.139	0.149	0.110	0.107	0.099	0.152	0.116	0.128	0.105	0.104
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	**1.6**	**1.5**	**1.4**	**1.5**	**1.1**	**1.1**	**1.0**	**1.5**	**1.2**	**1.3**	**1.1**	**1.0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful opportunities	53.0	6.0	35.0	29.0	17.0	21.0	59.0	46.0
Total opportunities	53.0	6.0	35.0	31.0	18.0	29.0	62.0	47.0
Indicator value	**92.8%**	**92.9%**	**97.3%**	**96.9%**	**96.5%**	**93.9%**	**94.0%**	**94.7%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Participating Key personnel	166.0	164.0	156.0	159.0	158.0	154.0	152.0	155.0
Total Key personnel	166.0	165.0	158.0	159.0	158.0	156.0	155.0	161.0
Indicator value	**100.0%**	**99.4%**	**98.7%**	**100.0%**	**100.0%**	**98.7%**	**98.1%**	**96.3%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Successful siren-tests	466	465	470	476	472	473	475	476
Total sirens-tests	469	469	474	476	476	476	476	476
Indicator value	**95.2%**	**95.6%**	**95.7%**	**99.4%**	**99.4%**	**99.4%**	**99.6%**	**99.6%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: June 1, 2007

North Anna 1

2Q/2007 Performance Indicators

Licensee's General Comments: none

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2208.0	2209.0	1605.3	1998.2	2208.0	2104.0	2137.0	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.8**	**0.8**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Scrams	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned power changes	2.0	0	1.0	0	0	0	0	0
Critical hours	2208.0	2209.0	1605.3	1998.2	2208.0	2104.0	2137.0	2184.0
Indicator value	**2.4**	**1.6**	**2.6**	**2.6**	**0.9**	**0.9**	**0**	**0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				2.20E-08	1.60E-08	1.30E-08	-1.60E-08	-1.60E-08
URI (ΔCDF)				7.00E-07	7.00E-07	4.70E-07	2.50E-07	2.50E-07
PLE				NO	NO	NO	NO	NO
Indicator value				**7.22E-07**	**7.16E-07**	**4.83E-07**	**2.34E-07**	**2.34E-07**

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/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08
URI (ΔCDF)				-8.50E-09	-8.40E-09	-8.50E-09	-8.40E-09	-8.60E-09
PLE				NO	NO	NO	NO	NO
Indicator value				**-2.65E-08**	**-2.64E-08**	**-2.65E-08**	**-2.64E-08**	**-2.66E-08**

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/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				-2.30E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.30E-08
URI (ΔCDF)				-3.40E-08	-3.40E-08	-3.40E-08	-3.80E-08	-3.80E-08
PLE				NO	NO	NO	NO	NO
Indicator value				**-5.70E-08**	**-5.70E-08**	**-5.70E-08**	**-6.10E-08**	**-6.10E-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/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				8.50E-08	8.60E-08	8.40E-08	8.40E-08	8.50E-08
URI (ΔCDF)				-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09
PLE				NO	NO	NO	NO	NO
Indicator value				**7.75E-08**	**7.85E-08**	**7.65E-08**	**7.65E-08**	**7.75E-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/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				3.70E-09	3.70E-09	3.70E-09	3.70E-09	4.00E-09
URI (ΔCDF)				4.30E-08	4.30E-08	4.50E-08	-2.00E-08	-2.00E-08
PLE				NO	NO	NO	NO	NO
Indicator value				**4.67E-08**	**4.67E-08**	**4.87E-08**	**-1.63E-08**	**-1.60E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**
Maximum activity	0.000390	0.000400	0.000421	0.000490	0.000466	0.000562	0.000494	0.000481	0.000533	0.000224	0.000264	0.000260
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.1**	**0**	**0**	**0.1**	**0**	**0**	**0**
Reactor Coolant System Activity	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**
Maximum activity	0.000285	0.000279	0.000310	0.000345	0.000429	0.000542	0.000401	0.000420	0.000410	0.000479	0.000457	0.000462
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**
Maximum leakage	0.136	0.124	0.119	0.111	0.105	0.098	0.101	0.123	0.116	0.162	0.147	0.139
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	**1.4**	**1.2**	**1.2**	**1.1**	**1.1**	**1.0**	**1.0**	**1.2**	**1.2**	**1.6**	**1.5**	**1.4**
Reactor Coolant System Leakage	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**
Maximum leakage	0.149	0.110	0.107	0.099	0.152	0.116	0.128	0.105	0.104	0.136	0.116	0.094
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	**1.5**	**1.1**	**1.1**	**1.0**	**1.5**	**1.2**	**1.3**	**1.1**	**1.0**	**1.4**	**1.2**	**0.9**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful opportunities	6.0	35.0	29.0	17.0	21.0	59.0	46.0	22.0
Total opportunities	6.0	35.0	31.0	18.0	29.0	62.0	47.0	22.0
Indicator value	**92.9%**	**97.3%**	**96.9%**	**96.5%**	**93.9%**	**94.0%**	**94.7%**	**94.0%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Participating Key personnel	164.0	156.0	159.0	158.0	154.0	152.0	155.0	156.0
Total Key personnel	165.0	158.0	159.0	158.0	156.0	155.0	161.0	156.0
Indicator value	**99.4%**	**98.7%**	**100.0%**	**100.0%**	**98.7%**	**98.1%**	**96.3%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Successful siren-tests	465	470	476	472	473	475	476	475
Total sirens-tests	469	474	476	476	476	476	476	476
Indicator value	**95.6%**	**95.7%**	**99.4%**	**99.4%**	**99.4%**	**99.6%**	**99.6%**	**99.7%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: August 6, 2007

North Anna 1

3Q/2007 Performance Indicators

Licensee's General Comments: none

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2209.0	1605.3	1998.2	2208.0	2104.0	2137.0	2184.0	1680.7
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.8**	**0.8**	**0.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2209.0	1605.3	1998.2	2208.0	2104.0	2137.0	2184.0	1680.7
Indicator value	**1.6**	**2.6**	**2.6**	**0.9**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Scrams with complications					0	0	0	0
Indicator value								**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			2.20E-08	1.60E-08	1.30E-08	-1.60E-08	-1.60E-08	-1.60E-08
URI (ΔCDF)			7.00E-07	7.00E-07	4.70E-07	2.50E-07	2.50E-07	2.50E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**7.22E-07**	**7.16E-07**	**4.83E-07**	**2.34E-07**	**2.34E-07**	**2.34E-07**

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	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-2.00E-08
URI (ΔCDF)			-8.50E-09	-8.40E-09	-8.50E-09	-8.40E-09	-8.60E-09	-8.40E-09
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-2.65E-08**	**-2.64E-08**	**-2.65E-08**	**-2.64E-08**	**-2.66E-08**	**-2.84E-08**

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	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			-2.30E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.20E-08
URI (ΔCDF)			-3.40E-08	-3.40E-08	-3.40E-08	-3.80E-08	-3.80E-08	-3.80E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-5.70E-08**	**-5.70E-08**	**-5.70E-08**	**-6.10E-08**	**-6.10E-08**	**-6.00E-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	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			8.50E-08	8.60E-08	8.40E-08	8.40E-08	8.50E-08	3.60E-08
URI (ΔCDF)			-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.20E-09
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**7.75E-08**	**7.85E-08**	**7.65E-08**	**7.65E-08**	**7.75E-08**	**2.88E-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	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			3.70E-09	3.70E-09	3.70E-09	3.70E-09	4.00E-09	3.70E-09
URI (ΔCDF)			4.30E-08	4.30E-08	4.50E-08	-2.00E-08	-2.00E-08	-2.00E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**4.67E-08**	**4.67E-08**	**4.87E-08**	**-1.63E-08**	**-1.60E-08**	**-1.63E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**
Maximum activity	0.000490	0.000466	0.000562	0.000494	0.000481	0.000533	0.000224	0.000264	0.000260	0.000285	0.000279	0.000310
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
Indicator value	**0**	**0**	**0.1**	**0**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**
Maximum activity	0.000345	0.000429	0.000542	0.000401	0.000420	0.000410	0.000479	0.000457	0.000462	0.000520	0.000518	0.000455
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
Indicator value	**0**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**
Maximum leakage	0.111	0.105	0.098	0.101	0.123	0.116	0.162	0.147	0.139	0.149	0.110	0.107
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	**1.1**	**1.1**	**1.0**	**1.0**	**1.2**	**1.2**	**1.6**	**1.5**	**1.4**	**1.5**	**1.1**	**1.1**
Reactor Coolant System Leakage	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**
Maximum leakage	0.099	0.152	0.116	0.128	0.105	0.104	0.136	0.116	0.094	0.107	0.116	0.102
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	**1.0**	**1.5**	**1.2**	**1.3**	**1.1**	**1.0**	**1.4**	**1.2**	**0.9**	**1.1**	**1.2**	**1.0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful opportunities	35.0	29.0	17.0	21.0	59.0	46.0	22.0	31.0
Total opportunities	35.0	31.0	18.0	29.0	62.0	47.0	22.0	32.0
Indicator value	**97.3%**	**96.9%**	**96.5%**	**93.9%**	**94.0%**	**94.7%**	**94.0%**	**94.2%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Participating Key personnel	156.0	159.0	158.0	154.0	152.0	155.0	156.0	156.0
Total Key personnel	158.0	159.0	158.0	156.0	155.0	161.0	156.0	156.0
Indicator value	**98.7%**	**100.0%**	**100.0%**	**98.7%**	**98.1%**	**96.3%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Successful siren-tests	470	476	472	473	475	476	475	476
Total sirens-tests	474	476	476	476	476	476	476	476
Indicator value	**95.7%**	**99.4%**	**99.4%**	**99.4%**	**99.6%**	**99.6%**	**99.7%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: December 7, 2007

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4Q/2007 Performance Indicators

Licensee's General Comments: none

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	1605.3	1998.2	2208.0	2104.0	2137.0	2184.0	1680.7	1875.2
Indicator value	**0**	**0**	**0**	**0**	**0.8**	**0.8**	**0.9**	**0.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	1605.3	1998.2	2208.0	2104.0	2137.0	2184.0	1680.7	1875.2
Indicator value	**2.6**	**2.6**	**0.9**	**0.9**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Scrams with complications				0	0	0	0	0
Indicator value							**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		2.20E-08	1.60E-08	1.30E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08
URI (ΔCDF)		7.00E-07	7.00E-07	4.70E-07	2.50E-07	2.50E-07	2.50E-07	2.50E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**7.22E-07**	**7.16E-07**	**4.83E-07**	**2.34E-07**	**2.34E-07**	**2.34E-07**	**2.34E-07**

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	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-2.00E-08	-2.20E-08
URI (ΔCDF)		-8.50E-09	-8.40E-09	-8.50E-09	-8.40E-09	-8.60E-09	-8.40E-09	-8.30E-09
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-2.65E-08**	**-2.64E-08**	**-2.65E-08**	**-2.64E-08**	**-2.66E-08**	**-2.84E-08**	**-3.03E-08**

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	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		-2.30E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)		-3.40E-08	-3.40E-08	-3.40E-08	-3.80E-08	-3.80E-08	-3.80E-08	-4.00E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-5.70E-08**	**-5.70E-08**	**-5.70E-08**	**-6.10E-08**	**-6.10E-08**	**-6.00E-08**	**-6.20E-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	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		8.50E-08	8.60E-08	8.40E-08	8.40E-08	8.50E-08	3.60E-08	3.50E-08
URI (ΔCDF)		-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.20E-09	-7.30E-09
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**7.75E-08**	**7.85E-08**	**7.65E-08**	**7.65E-08**	**7.75E-08**	**2.88E-08**	**2.77E-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	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		3.70E-09	3.70E-09	3.70E-09	3.70E-09	4.00E-09	3.70E-09	3.80E-09
URI (ΔCDF)		4.30E-08	4.30E-08	4.50E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**4.67E-08**	**4.67E-08**	**4.87E-08**	**-1.63E-08**	**-1.60E-08**	**-1.63E-08**	**-1.62E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**
Maximum activity	0.000494	0.000481	0.000533	0.000224	0.000264	0.000260	0.000285	0.000279	0.000310	0.000345	0.000429	0.000542
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
Indicator value	**0**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**
Reactor Coolant System Activity	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**
Maximum activity	0.000401	0.000420	0.000410	0.000479	0.000457	0.000462	0.000520	0.000518	0.000455	0.000236	0.000244	0.000248
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**
Maximum leakage	0.101	0.123	0.116	0.162	0.147	0.139	0.149	0.110	0.107	0.099	0.152	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
Indicator value	**1.0**	**1.2**	**1.2**	**1.6**	**1.5**	**1.4**	**1.5**	**1.1**	**1.1**	**1.0**	**1.5**	**1.2**
Reactor Coolant System Leakage	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**
Maximum leakage	0.128	0.105	0.104	0.136	0.116	0.094	0.107	0.116	0.102	0.154	0.129	0.121
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	**1.3**	**1.1**	**1.0**	**1.4**	**1.2**	**0.9**	**1.1**	**1.2**	**1.0**	**1.5**	**1.3**	**1.2**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful opportunities	29.0	17.0	21.0	59.0	46.0	22.0	31.0	47.0
Total opportunities	31.0	18.0	29.0	62.0	47.0	22.0	32.0	49.0
Indicator value	**96.9%**	**96.5%**	**93.9%**	**94.0%**	**94.7%**	**94.0%**	**94.2%**	**93.8%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Participating Key personnel	159.0	158.0	154.0	152.0	155.0	156.0	156.0	158.0
Total Key personnel	159.0	158.0	156.0	155.0	161.0	156.0	156.0	158.0
Indicator value	**100.0%**	**100.0%**	**98.7%**	**98.1%**	**96.3%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Successful siren-tests	476	472	473	475	476	475	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.4%**	**99.4%**	**99.4%**	**99.6%**	**99.6%**	**99.7%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: February 4, 2008

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1Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	1998.2	2208.0	2104.0	2137.0	2184.0	1680.7	1875.2	2183.0
Indicator value	**0**	**0**	**0**	**0.8**	**0.8**	**0.9**	**0.9**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1998.2	2208.0	2104.0	2137.0	2184.0	1680.7	1875.2	2183.0
Indicator value	**2.6**	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Scrams with complications			0	0	0	0	0	0
Indicator value						**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	2.20E-08	1.60E-08	1.30E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08
URI (ΔCDF)	7.00E-07	7.00E-07	4.70E-07	2.50E-07	2.50E-07	2.50E-07	2.50E-07	2.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.22E-07**	**7.16E-07**	**4.83E-07**	**2.34E-07**	**2.34E-07**	**2.34E-07**	**2.34E-07**	**2.34E-07**

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	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-2.00E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-8.50E-09	-8.40E-09	-8.50E-09	-8.40E-09	-8.60E-09	-8.40E-09	-8.30E-09	-8.30E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.65E-08**	**-2.64E-08**	**-2.65E-08**	**-2.64E-08**	**-2.66E-08**	**-2.84E-08**	**-3.03E-08**	**-3.03E-08**

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	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**
UAI (ΔCDF)	-2.30E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-3.40E-08	-3.40E-08	-3.40E-08	-3.80E-08	-3.80E-08	-3.80E-08	-4.00E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.70E-08**	**-5.70E-08**	**-5.70E-08**	**-6.10E-08**	**-6.10E-08**	**-6.00E-08**	**-6.20E-08**	**-6.20E-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	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	8.50E-08	8.60E-08	8.40E-08	8.40E-08	8.50E-08	3.60E-08	3.50E-08	2.50E-08
URI (ΔCDF)	-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.20E-09	-7.30E-09	-7.30E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.75E-08**	**7.85E-08**	**7.65E-08**	**7.65E-08**	**7.75E-08**	**2.88E-08**	**2.77E-08**	**1.77E-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	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	3.70E-09	3.70E-09	3.70E-09	3.70E-09	4.00E-09	3.70E-09	3.80E-09	3.30E-09
URI (ΔCDF)	4.30E-08	4.30E-08	4.50E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.67E-08**	**4.67E-08**	**4.87E-08**	**-1.63E-08**	**-1.60E-08**	**-1.63E-08**	**-1.62E-08**	**-8.70E-09**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**
Maximum activity	0.000224	0.000264	0.000260	0.000285	0.000279	0.000310	0.000345	0.000429	0.000542	0.000401	0.000420	0.000410
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0**	**0**	**0**

Reactor Coolant System Activity	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**
Maximum activity	0.000479	0.000457	0.000462	0.000520	0.000518	0.000455	0.000236	0.000244	0.000248	0.000281	0.000280	0.000342
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
Indicator value	**0**	**0**	**0**	**0.1**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**
Maximum leakage	0.162	0.147	0.139	0.149	0.110	0.107	0.099	0.152	0.116	0.128	0.105	0.104
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	**1.6**	**1.5**	**1.4**	**1.5**	**1.1**	**1.1**	**1.0**	**1.5**	**1.2**	**1.3**	**1.1**	**1.0**
Reactor Coolant System Leakage	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**
Maximum leakage	0.136	0.116	0.094	0.107	0.116	0.102	0.154	0.129	0.121	0.114	0.148	0.095
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	**1.4**	**1.2**	**0.9**	**1.1**	**1.2**	**1.0**	**1.5**	**1.3**	**1.2**	**1.1**	**1.5**	**1.0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful opportunities	17.0	21.0	59.0	46.0	22.0	31.0	47.0	24.0
Total opportunities	18.0	29.0	62.0	47.0	22.0	32.0	49.0	26.0
Indicator value	**96.5%**	**93.9%**	**94.0%**	**94.7%**	**94.0%**	**94.2%**	**93.8%**	**93.7%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Participating Key personnel	158.0	154.0	152.0	155.0	156.0	156.0	158.0	159.0
Total Key personnel	158.0	156.0	155.0	161.0	156.0	156.0	158.0	160.0
Indicator value	**100.0%**	**98.7%**	**98.1%**	**96.3%**	**100.0%**	**100.0%**	**100.0%**	**99.4%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Successful siren-tests	472	473	475	476	475	476	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.4%**	**99.4%**	**99.6%**	**99.6%**	**99.7%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: April 30, 2008

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2Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2208.0	2104.0	2137.0	2184.0	1680.7	1875.2	2183.0	2184.0
Indicator value	**0**	**0**	**0.8**	**0.8**	**0.9**	**0.9**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	2104.0	2137.0	2184.0	1680.7	1875.2	2183.0	2184.0
Indicator value	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Scrams with complications		0	0	0	0	0	0	0
Indicator value					**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	1.60E-08	1.30E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	1.10E-08
URI (ΔCDF)	7.00E-07	4.70E-07	2.50E-07	2.50E-07	2.50E-07	2.50E-07	2.50E-07	4.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.16E-07**	**4.83E-07**	**2.34E-07**	**2.34E-07**	**2.34E-07**	**2.34E-07**	**2.34E-07**	**4.81E-07**

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/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	-1.80E-08	-1.80E-08	-1.80E-08	-1.80E-08	-2.00E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-8.40E-09	-8.50E-09	-8.40E-09	-8.60E-09	-8.40E-09	-8.30E-09	-8.30E-09	-8.50E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.64E-08**	**-2.65E-08**	**-2.64E-08**	**-2.66E-08**	**-2.84E-08**	**-3.03E-08**	**-3.03E-08**	**-3.05E-08**

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/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**
UAI (ΔCDF)	-2.30E-08	-2.30E-08	-2.30E-08	-2.30E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-3.40E-08	-3.40E-08	-3.80E-08	-3.80E-08	-3.80E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.70E-08**	**-5.70E-08**	**-6.10E-08**	**-6.10E-08**	**-6.00E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-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/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	8.60E-08	8.40E-08	8.40E-08	8.50E-08	3.60E-08	3.50E-08	2.50E-08	2.10E-08
URI (ΔCDF)	-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.20E-09	-7.30E-09	-7.30E-09	-7.30E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.85E-08**	**7.65E-08**	**7.65E-08**	**7.75E-08**	**2.88E-08**	**2.77E-08**	**1.77E-08**	**1.37E-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/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**
UAI (ΔCDF)	3.70E-09	3.70E-09	3.70E-09	4.00E-09	3.70E-09	3.80E-09	3.30E-09	1.70E-09
URI (ΔCDF)	4.30E-08	4.50E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08	-1.20E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.67E-08**	**4.87E-08**	**-1.63E-08**	**-1.60E-08**	**-1.63E-08**	**-1.62E-08**	**-8.70E-09**	**-1.03E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**
Maximum activity	0.000285	0.000279	0.000310	0.000345	0.000429	0.000542	0.000401	0.000420	0.000410	0.000479	0.000457	0.000462
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**
Maximum activity	0.000520	0.000518	0.000455	0.000236	0.000244	0.000248	0.000281	0.000280	0.000342	0.000375	0.000377	0.000513
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
Indicator value	**0.1**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**
Maximum leakage	0.149	0.110	0.107	0.099	0.152	0.116	0.128	0.105	0.104	0.136	0.116	0.094
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	**1.5**	**1.1**	**1.1**	**1.0**	**1.5**	**1.2**	**1.3**	**1.1**	**1.0**	**1.4**	**1.2**	**0.9**
Reactor Coolant System Leakage	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**
Maximum leakage	0.107	0.116	0.102	0.154	0.129	0.121	0.114	0.148	0.095	0.090	0.082	0.081
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	**1.1**	**1.2**	**1.0**	**1.5**	**1.3**	**1.2**	**1.1**	**1.5**	**1.0**	**0.9**	**0.8**	**0.8**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful opportunities	21.0	59.0	46.0	22.0	31.0	47.0	24.0	10.0
Total opportunities	29.0	62.0	47.0	22.0	32.0	49.0	26.0	10.0
Indicator value	**93.9%**	**94.0%**	**94.7%**	**94.0%**	**94.2%**	**93.8%**	**93.7%**	**93.9%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Participating Key personnel	154.0	152.0	155.0	156.0	156.0	158.0	159.0	156.0
Total Key personnel	156.0	155.0	161.0	156.0	156.0	158.0	160.0	162.0
Indicator value	**98.7%**	**98.1%**	**96.3%**	**100.0%**	**100.0%**	**100.0%**	**99.4%**	**96.3%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Successful siren-tests	473	475	476	475	476	476	476	474
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.4%**	**99.6%**	**99.6%**	**99.7%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Physical Protection information not publicly available.

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3Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2104.0	2137.0	2184.0	1680.7	1875.2	2183.0	2184.0	2208.0
Indicator value	**0**	**0.8**	**0.8**	**0.9**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2104.0	2137.0	2184.0	1680.7	1875.2	2183.0	2184.0	2208.0
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value				**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	1.30E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	1.10E-08	1.10E-08
URI (ΔCDF)	4.70E-07	2.50E-07	2.50E-07	2.50E-07	2.50E-07	2.50E-07	4.70E-07	2.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.83E-07**	**2.34E-07**	**2.34E-07**	**2.34E-07**	**2.34E-07**	**2.34E-07**	**4.81E-07**	**2.51E-07**

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	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**
UAI (ΔCDF)	-1.80E-08	-1.80E-08	-1.80E-08	-2.00E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-8.50E-09	-8.40E-09	-8.60E-09	-8.40E-09	-8.30E-09	-8.30E-09	-8.50E-09	-8.70E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.65E-08**	**-2.64E-08**	**-2.66E-08**	**-2.84E-08**	**-3.03E-08**	**-3.03E-08**	**-3.05E-08**	**-3.07E-08**

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	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**
UAI (ΔCDF)	-2.30E-08	-2.30E-08	-2.30E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-3.40E-08	-3.80E-08	-3.80E-08	-3.80E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.70E-08**	**-6.10E-08**	**-6.10E-08**	**-6.00E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-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	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**
UAI (ΔCDF)	8.40E-08	8.40E-08	8.50E-08	3.60E-08	3.50E-08	2.50E-08	2.10E-08	1.70E-08
URI (ΔCDF)	-7.50E-09	-7.50E-09	-7.50E-09	-7.20E-09	-7.30E-09	-7.30E-09	-7.30E-09	-7.30E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.65E-08**	**7.65E-08**	**7.75E-08**	**2.88E-08**	**2.77E-08**	**1.77E-08**	**1.37E-08**	**9.70E-09**

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	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**
UAI (ΔCDF)	3.70E-09	3.70E-09	4.00E-09	3.70E-09	3.80E-09	3.30E-09	1.70E-09	2.30E-09
URI (ΔCDF)	4.50E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08	-1.20E-08	-1.20E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.87E-08**	**-1.63E-08**	**-1.60E-08**	**-1.63E-08**	**-1.62E-08**	**-8.70E-09**	**-1.03E-08**	**-9.70E-09**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**
Maximum activity	0.000345	0.000429	0.000542	0.000401	0.000420	0.000410	0.000479	0.000457	0.000462	0.000520	0.000518	0.000455
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
Indicator value	**0**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0**
Reactor Coolant System Activity	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**
Maximum activity	0.000236	0.000244	0.000248	0.000281	0.000280	0.000342	0.000375	0.000377	0.000513	0.000508	0.000599	0.000599
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/06	11/06	12/06	1/07	2/07	3/07	4/07	5/07	6/07	7/07	8/07	9/07
Maximum leakage	0.099	0.152	0.116	0.128	0.105	0.104	0.136	0.116	0.094	0.107	0.116	0.102
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	**1.0**	**1.5**	**1.2**	**1.3**	**1.1**	**1.0**	**1.4**	**1.2**	**0.9**	**1.1**	**1.2**	**1.0**
Reactor Coolant System Leakage	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**
Maximum leakage	0.154	0.129	0.121	0.114	0.148	0.095	0.090	0.082	0.081	0.080	0.074	0.075
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	**1.5**	**1.3**	**1.2**	**1.1**	**1.5**	**1.0**	**0.9**	**0.8**	**0.8**	**0.8**	**0.7**	**0.8**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful opportunities	59.0	46.0	22.0	31.0	47.0	24.0	10.0	11.0
Total opportunities	62.0	47.0	22.0	32.0	49.0	26.0	10.0	14.0
Indicator value	**94.0%**	**94.7%**	**94.0%**	**94.2%**	**93.8%**	**93.7%**	**93.9%**	**95.4%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Participating Key personnel	152.0	155.0	156.0	156.0	158.0	159.0	156.0	152.0
Total Key personnel	155.0	161.0	156.0	156.0	158.0	160.0	162.0	157.0
Indicator value	**98.1%**	**96.3%**	**100.0%**	**100.0%**	**100.0%**	**99.4%**	**96.3%**	**96.8%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Successful siren-tests	475	476	475	476	476	476	474	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.6%**	**99.6%**	**99.7%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: November 26, 2008

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4Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2137.0	2184.0	1680.7	1875.2	2183.0	2184.0	2208.0	2209.0
Indicator value	**0.8**	**0.8**	**0.9**	**0.9**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2137.0	2184.0	1680.7	1875.2	2183.0	2184.0	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
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**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	1.10E-08	1.10E-08	1.10E-08
URI (ΔCDF)	2.50E-07	2.50E-07	2.50E-07	2.50E-07	2.50E-07	4.70E-07	2.40E-07	2.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.34E-07**	**2.34E-07**	**2.34E-07**	**2.34E-07**	**2.34E-07**	**4.81E-07**	**2.51E-07**	**2.51E-07**

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	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	-1.80E-08	-1.80E-08	-2.00E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-8.40E-09	-8.60E-09	-8.40E-09	-8.30E-09	-8.30E-09	-8.50E-09	-8.70E-09	-8.70E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.64E-08**	**-2.66E-08**	**-2.84E-08**	**-3.03E-08**	**-3.03E-08**	**-3.05E-08**	**-3.07E-08**	**-3.07E-08**

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	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**
UAI (ΔCDF)	-2.30E-08	-2.30E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-3.80E-08	-3.80E-08	-3.80E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.10E-08**	**-6.10E-08**	**-6.00E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-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	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	8.40E-08	8.50E-08	3.60E-08	3.50E-08	2.50E-08	2.10E-08	1.70E-08	-3.70E-09
URI (ΔCDF)	-7.50E-09	-7.50E-09	-7.20E-09	-7.30E-09	-7.30E-09	-7.30E-09	-7.30E-09	-7.30E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.65E-08**	**7.75E-08**	**2.88E-08**	**2.77E-08**	**1.77E-08**	**1.37E-08**	**9.70E-09**	**-1.10E-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	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	3.70E-09	4.00E-09	3.70E-09	3.80E-09	3.30E-09	1.70E-09	2.30E-09	-4.50E-10
URI (ΔCDF)	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.63E-08**	**-1.60E-08**	**-1.63E-08**	**-1.62E-08**	**-8.70E-09**	**-1.03E-08**	**-9.70E-09**	**-1.25E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**
Maximum activity	0.000401	0.000420	0.000410	0.000479	0.000457	0.000462	0.000520	0.000518	0.000455	0.000236	0.000244	0.000248
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**
Maximum activity	0.000281	0.000280	0.000342	0.000375	0.000377	0.000513	0.000508	0.000599	0.000599	0.000631	0.000809	0.000752
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**
Maximum leakage	0.128	0.105	0.104	0.136	0.116	0.094	0.107	0.116	0.102	0.154	0.129	0.121
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	**1.3**	**1.1**	**1.0**	**1.4**	**1.2**	**0.9**	**1.1**	**1.2**	**1.0**	**1.5**	**1.3**	**1.2**
Reactor Coolant System Leakage	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**
Maximum leakage	0.114	0.148	0.095	0.090	0.082	0.081	0.080	0.074	0.075	0.075	0.062	0.055
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	**1.1**	**1.5**	**1.0**	**0.9**	**0.8**	**0.8**	**0.8**	**0.7**	**0.8**	**0.8**	**0.6**	**0.6**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful opportunities	46.0	22.0	31.0	47.0	24.0	10.0	11.0	39.0
Total opportunities	47.0	22.0	32.0	49.0	26.0	10.0	14.0	40.0
Indicator value	**94.7%**	**94.0%**	**94.2%**	**93.8%**	**93.7%**	**93.9%**	**95.4%**	**95.8%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Participating Key personnel	155.0	156.0	156.0	158.0	159.0	156.0	152.0	140.0
Total Key personnel	161.0	156.0	156.0	158.0	160.0	162.0	157.0	154.0
Indicator value	**96.3%**	**100.0%**	**100.0%**	**100.0%**	**99.4%**	**96.3%**	**96.8%**	**90.9%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Successful siren-tests	476	475	476	476	476	474	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.6%**	**99.7%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: February 4, 2009

North Anna 1

1Q/2009 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	1680.7	1875.2	2183.0	2184.0	2208.0	2209.0	1585.2
Indicator value	**0.8**	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2184.0	1680.7	1875.2	2183.0	2184.0	2208.0	2209.0	1585.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
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**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	-1.60E-08	-1.60E-08	-1.60E-08	-1.60E-08	1.10E-08	1.10E-08	1.10E-08	1.10E-08
URI (ΔCDF)	2.50E-07	2.50E-07	2.50E-07	2.50E-07	4.70E-07	2.40E-07	2.40E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.34E-07**	**2.34E-07**	**2.34E-07**	**2.34E-07**	**4.81E-07**	**2.51E-07**	**2.51E-07**	**-1.39E-07**

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	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	-1.80E-08	-2.00E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-8.60E-09	-8.40E-09	-8.30E-09	-8.30E-09	-8.50E-09	-8.70E-09	-8.70E-09	-8.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.66E-08**	**-2.84E-08**	**-3.03E-08**	**-3.03E-08**	**-3.05E-08**	**-3.07E-08**	**-3.07E-08**	**-3.08E-08**

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	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	-2.30E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-3.80E-08	-3.80E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.10E-08**	**-6.00E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-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	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	8.50E-08	3.60E-08	3.50E-08	2.50E-08	2.10E-08	1.70E-08	-3.70E-09	-3.70E-09
URI (ΔCDF)	-7.50E-09	-7.20E-09	-7.30E-09	-7.30E-09	-7.30E-09	-7.30E-09	-7.30E-09	-7.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.75E-08**	**2.88E-08**	**2.77E-08**	**1.77E-08**	**1.37E-08**	**9.70E-09**	**-1.10E-08**	**-1.13E-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	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	4.00E-09	3.70E-09	3.80E-09	3.30E-09	1.70E-09	2.30E-09	-4.50E-10	-4.30E-11
URI (ΔCDF)	-2.00E-08	-2.00E-08	-2.00E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-08**	**-1.63E-08**	**-1.62E-08**	**-8.70E-09**	**-1.03E-08**	**-9.70E-09**	**-1.25E-08**	**-1.20E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**
Maximum activity	0.000479	0.000457	0.000462	0.000520	0.000518	0.000455	0.000236	0.000244	0.000248	0.000281	0.000280	0.000342
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
Indicator value	**0**	**0**	**0**	**0.1**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**
Maximum activity	0.000375	0.000377	0.000513	0.000508	0.000599	0.000599	0.000631	0.000809	0.000752	0.000803	0.000897	0.000926
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
Indicator value	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**
Maximum leakage	0.136	0.116	0.094	0.107	0.116	0.102	0.154	0.129	0.121	0.114	0.148	0.095
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	**1.4**	**1.2**	**0.9**	**1.1**	**1.2**	**1.0**	**1.5**	**1.3**	**1.2**	**1.1**	**1.5**	**1.0**
Reactor Coolant System Leakage	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**
Maximum leakage	0.090	0.082	0.081	0.080	0.074	0.075	0.075	0.062	0.055	0.050	0.107	0.092
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	**0.9**	**0.8**	**0.8**	**0.8**	**0.7**	**0.8**	**0.8**	**0.6**	**0.6**	**0.5**	**1.1**	**0.9**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful opportunities	22.0	31.0	47.0	24.0	10.0	11.0	39.0	30.0
Total opportunities	22.0	32.0	49.0	26.0	10.0	14.0	40.0	31.0
Indicator value	**94.0%**	**94.2%**	**93.8%**	**93.7%**	**93.9%**	**95.4%**	**95.8%**	**95.5%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Participating Key personnel	156.0	156.0	158.0	159.0	156.0	152.0	140.0	160.0
Total Key personnel	156.0	156.0	158.0	160.0	162.0	157.0	154.0	170.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**99.4%**	**96.3%**	**96.8%**	**90.9%**	**94.1%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Successful siren-tests	475	476	476	476	474	476	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.7%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: May 1, 2009

North Anna 1

2Q/2009 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1680.7	1875.2	2183.0	2184.0	2208.0	2209.0	1585.2	2171.5
Indicator value	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1680.7	1875.2	2183.0	2184.0	2208.0	2209.0	1585.2	2171.5
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
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**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	-1.60E-08	-1.60E-08	-1.60E-08	1.10E-08	1.10E-08	1.10E-08	1.10E-08	7.20E-08
URI (ΔCDF)	2.50E-07	2.50E-07	2.50E-07	4.70E-07	2.40E-07	2.40E-07	-1.50E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.34E-07**	**2.34E-07**	**2.34E-07**	**4.81E-07**	**2.51E-07**	**2.51E-07**	**-1.39E-07**	**-7.80E-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/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**
UAI (ΔCDF)	-2.00E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-8.40E-09	-8.30E-09	-8.30E-09	-8.50E-09	-8.70E-09	-8.70E-09	-8.80E-09	-8.80E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.84E-08**	**-3.03E-08**	**-3.03E-08**	**-3.05E-08**	**-3.07E-08**	**-3.07E-08**	**-3.08E-08**	**-3.08E-08**

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/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-3.80E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.00E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-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/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	3.60E-08	3.50E-08	2.50E-08	2.10E-08	1.70E-08	-3.70E-09	-3.70E-09	-3.70E-09
URI (ΔCDF)	-7.20E-09	-7.30E-09	-7.30E-09	-7.30E-09	-7.30E-09	-7.30E-09	-7.60E-09	-7.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.88E-08**	**2.77E-08**	**1.77E-08**	**1.37E-08**	**9.70E-09**	**-1.10E-08**	**-1.13E-08**	**-1.13E-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/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	3.70E-09	3.80E-09	3.30E-09	1.70E-09	2.30E-09	-4.50E-10	-4.30E-11	1.10E-10
URI (ΔCDF)	-2.00E-08	-2.00E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.63E-08**	**-1.62E-08**	**-8.70E-09**	**-1.03E-08**	**-9.70E-09**	**-1.25E-08**	**-1.20E-08**	**-1.19E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**
Maximum activity	0.000520	0.000518	0.000455	0.000236	0.000244	0.000248	0.000281	0.000280	0.000342	0.000375	0.000377	0.000513
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
Indicator value	**0.1**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**

Reactor Coolant System Activity	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**
Maximum activity	0.000508	0.000599	0.000599	0.000631	0.000809	0.000752	0.000803	0.000897	0.000926	0.000230	0.000255	0.000285
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**
Maximum leakage	0.107	0.116	0.102	0.154	0.129	0.121	0.114	0.148	0.095	0.090	0.082	0.081
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	**1.1**	**1.2**	**1.0**	**1.5**	**1.3**	**1.2**	**1.1**	**1.5**	**1.0**	**0.9**	**0.8**	**0.8**
Reactor Coolant System Leakage	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**
Maximum leakage	0.080	0.074	0.075	0.075	0.062	0.055	0.050	0.107	0.092	0.131	0.108	0.109
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	**0.8**	**0.7**	**0.8**	**0.8**	**0.6**	**0.6**	**0.5**	**1.1**	**0.9**	**1.3**	**1.1**	**1.1**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful opportunities	31.0	47.0	24.0	10.0	11.0	39.0	30.0	28.0
Total opportunities	32.0	49.0	26.0	10.0	14.0	40.0	31.0	29.0
Indicator value	**94.2%**	**93.8%**	**93.7%**	**93.9%**	**95.4%**	**95.8%**	**95.5%**	**95.2%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Participating Key personnel	156.0	158.0	159.0	156.0	152.0	140.0	160.0	175.0
Total Key personnel	156.0	158.0	160.0	162.0	157.0	154.0	170.0	175.0
Indicator value	**100.0%**	**100.0%**	**99.4%**	**96.3%**	**96.8%**	**90.9%**	**94.1%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful siren-tests	476	476	476	474	476	476	476	474
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: July 22, 2009

North Anna 1

3Q/2009 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1875.2	2183.0	2184.0	2208.0	2209.0	1585.2	2171.5	2208.0
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1875.2	2183.0	2184.0	2208.0	2209.0	1585.2	2171.5	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
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**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	-1.60E-08	-1.60E-08	1.10E-08	1.10E-08	1.10E-08	1.10E-08	3.10E-08	9.00E-08
URI (ΔCDF)	2.50E-07	2.50E-07	4.70E-07	2.40E-07	2.40E-07	-1.50E-07	-1.50E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.34E-07**	**2.34E-07**	**4.81E-07**	**2.51E-07**	**2.51E-07**	**-1.39E-07**	**-1.19E-07**	**-6.00E-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	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-8.30E-09	-8.30E-09	-8.50E-09	-8.70E-09	-8.70E-09	-8.80E-09	-8.80E-09	-9.00E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.03E-08**	**-3.03E-08**	**-3.05E-08**	**-3.07E-08**	**-3.07E-08**	**-3.08E-08**	**-3.08E-08**	**-3.10E-08**

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	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-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	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**
UAI (ΔCDF)	3.50E-08	2.50E-08	2.10E-08	1.70E-08	-3.70E-09	-3.70E-09	-3.70E-09	-3.70E-09
URI (ΔCDF)	-7.30E-09	-7.30E-09	-7.30E-09	-7.30E-09	-7.30E-09	-7.60E-09	-7.60E-09	-7.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.77E-08**	**1.77E-08**	**1.37E-08**	**9.70E-09**	**-1.10E-08**	**-1.13E-08**	**-1.13E-08**	**-1.13E-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	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	3.80E-09	3.30E-09	1.70E-09	2.30E-09	-4.50E-10	-4.30E-11	1.10E-10	1.10E-10
URI (ΔCDF)	-2.00E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.62E-08**	**-8.70E-09**	**-1.03E-08**	**-9.70E-09**	**-1.25E-08**	**-1.20E-08**	**-1.19E-08**	**-1.19E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**
Maximum activity	0.000236	0.000244	0.000248	0.000281	0.000280	0.000342	0.000375	0.000377	0.000513	0.000508	0.000599	0.000599
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**
Maximum activity	0.000631	0.000809	0.000752	0.000803	0.000897	0.000926	0.000230	0.000255	0.000285	0.000284	0.000294	0.000312
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/07**	**11/07**	**12/07**	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**
Maximum leakage	0.154	0.129	0.121	0.114	0.148	0.095	0.090	0.082	0.081	0.080	0.074	0.075
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	**1.5**	**1.3**	**1.2**	**1.1**	**1.5**	**1.0**	**0.9**	**0.8**	**0.8**	**0.8**	**0.7**	**0.8**
Reactor Coolant System Leakage	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**
Maximum leakage	0.075	0.062	0.055	0.050	0.107	0.092	0.131	0.108	0.109	0.096	0.094	0.087
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	**0.8**	**0.6**	**0.6**	**0.5**	**1.1**	**0.9**	**1.3**	**1.1**	**1.1**	**1.0**	**0.9**	**0.9**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful opportunities	47.0	24.0	10.0	11.0	39.0	30.0	28.0	42.0
Total opportunities	49.0	26.0	10.0	14.0	40.0	31.0	29.0	43.0
Indicator value	**93.8%**	**93.7%**	**93.9%**	**95.4%**	**95.8%**	**95.5%**	**95.2%**	**95.5%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Participating Key personnel	158.0	159.0	156.0	152.0	140.0	160.0	175.0	177.0
Total Key personnel	158.0	160.0	162.0	157.0	154.0	170.0	175.0	177.0
Indicator value	**100.0%**	**99.4%**	**96.3%**	**96.8%**	**90.9%**	**94.1%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Successful siren-tests	476	476	474	476	476	476	474	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: November 30, 2009

North Anna 1

4Q/2009 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2209.0	1585.2	2171.5	2208.0	2080.7
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2209.0	1585.2	2171.5	2208.0	2080.7
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
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**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Safety System Functional Failures	0	0	0	0	0	0	0	1
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**

Licensee Comments:

4Q/09: LER 50-338/2009-001-00 Missile shield door for Service Water Valve House would not have performed its design function during a design basis tornado event. LER is applicable to both units.

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/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
UAI (ΔCDF)	-1.60E-08	1.10E-08	1.10E-08	1.10E-08	1.10E-08	3.10E-08	9.00E-08	9.20E-08
URI (ΔCDF)	2.50E-07	4.70E-07	2.40E-07	2.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.34E-07**	**4.81E-07**	**2.51E-07**	**2.51E-07**	**-1.39E-07**	**-1.19E-07**	**-6.00E-08**	**-5.80E-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	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-8.30E-09	-8.50E-09	-8.70E-09	-8.70E-09	-8.80E-09	-8.80E-09	-9.00E-09	-9.10E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.03E-08**	**-3.05E-08**	**-3.07E-08**	**-3.07E-08**	**-3.08E-08**	**-3.08E-08**	**-3.10E-08**	**-3.11E-08**

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	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-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	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	2.50E-08	2.10E-08	1.70E-08	-3.70E-09	-3.70E-09	-3.70E-09	-3.70E-09	-3.70E-09
URI (ΔCDF)	-7.30E-09	-7.30E-09	-7.30E-09	-7.30E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.77E-08**	**1.37E-08**	**9.70E-09**	**-1.10E-08**	**-1.13E-08**	**-1.13E-08**	**-1.13E-08**	**-1.13E-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	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	3.30E-09	1.70E-09	2.30E-09	-4.50E-10	-4.30E-11	1.10E-10	1.10E-10	1.10E-10
URI (ΔCDF)	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.70E-09**	**-1.03E-08**	**-9.70E-09**	**-1.25E-08**	**-1.20E-08**	**-1.19E-08**	**-1.19E-08**	**-1.19E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**
Maximum activity	0.000281	0.000280	0.000342	0.000375	0.000377	0.000513	0.000508	0.000599	0.000599	0.000631	0.000809	0.000752
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Reactor Coolant System Activity	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**
Maximum activity	0.000803	0.000897	0.000926	0.000230	0.000255	0.000285	0.000284	0.000294	0.000312	0.000373	0.000441	0.000479
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
Indicator value	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/08	2/08	3/08	4/08	5/08	6/08	7/08	8/08	9/08	10/08	11/08	12/08
Maximum leakage	0.114	0.148	0.095	0.090	0.082	0.081	0.080	0.074	0.075	0.075	0.062	0.055
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	**1.1**	**1.5**	**1.0**	**0.9**	**0.8**	**0.8**	**0.8**	**0.7**	**0.8**	**0.8**	**0.6**	**0.6**
Reactor Coolant System Leakage	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**
Maximum leakage	0.050	0.107	0.092	0.131	0.108	0.109	0.096	0.094	0.087	0.390	0.342	0.181
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	**0.5**	**1.1**	**0.9**	**1.3**	**1.1**	**1.1**	**1.0**	**0.9**	**0.9**	**3.9**	**3.4**	**1.8**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful opportunities	24.0	10.0	11.0	39.0	30.0	28.0	42.0	28.0
Total opportunities	26.0	10.0	14.0	40.0	31.0	29.0	43.0	29.0
Indicator value	**93.7%**	**93.9%**	**95.4%**	**95.8%**	**95.5%**	**95.2%**	**95.5%**	**95.5%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Participating Key personnel	159.0	156.0	152.0	140.0	160.0	175.0	177.0	179.0
Total Key personnel	160.0	162.0	157.0	154.0	170.0	175.0	177.0	179.0
Indicator value	**99.4%**	**96.3%**	**96.8%**	**90.9%**	**94.1%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Successful siren-tests	476	474	476	476	476	474	476	475
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: January 22, 2010

North Anna 1

1Q/2010 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	1585.2	2171.5	2208.0	2080.7	2159.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2184.0	2208.0	2209.0	1585.2	2171.5	2208.0	2080.7	2159.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.8**

Licensee Comments:

1Q/10: Unplanned shutdown that was documented in October 2009 has been revised and reported as an unplanned power change in February, 2010. Unit was shutdown to repair a thru wall leak on the normal letdown line.

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
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**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Safety System Functional Failures	0	0	0	0	0	0	1	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**

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	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
UAI (ΔCDF)	1.10E-08	1.10E-08	1.10E-08	1.10E-08	3.10E-08	9.00E-08	9.20E-08	8.46E-08
URI (ΔCDF)	4.70E-07	2.40E-07	2.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.51E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.81E-07**	**2.51E-07**	**2.51E-07**	**-1.39E-07**	**-1.19E-07**	**-6.00E-08**	**-5.80E-08**	**-6.60E-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	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.26E-08
URI (ΔCDF)	-8.50E-09	-8.70E-09	-8.70E-09	-8.80E-09	-8.80E-09	-9.00E-09	-9.10E-09	-9.08E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.05E-08**	**-3.07E-08**	**-3.07E-08**	**-3.08E-08**	**-3.08E-08**	**-3.10E-08**	**-3.11E-08**	**-3.20E-08**

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	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.24E-08
URI (ΔCDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-3.57E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-5.80E-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	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**
UAI (ΔCDF)	2.10E-08	1.70E-08	-3.70E-09	-3.70E-09	-3.70E-09	-3.70E-09	-3.70E-09	-3.87E-09
URI (ΔCDF)	-7.30E-09	-7.30E-09	-7.30E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.61E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.37E-08**	**9.70E-09**	**-1.10E-08**	**-1.13E-08**	**-1.13E-08**	**-1.13E-08**	**-1.13E-08**	**-1.10E-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	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**
UAI (ΔCDF)	1.70E-09	2.30E-09	-4.50E-10	-4.30E-11	1.10E-10	1.10E-10	1.10E-10	1.06E-10
URI (ΔCDF)	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.16E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.03E-08**	**-9.70E-09**	**-1.25E-08**	**-1.20E-08**	**-1.19E-08**	**-1.19E-08**	**-1.19E-08**	**-1.10E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**
Maximum activity	0.000375	0.000377	0.000513	0.000508	0.000599	0.000599	0.000631	0.000809	0.000752	0.000803	0.000897	0.000926
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
Indicator value	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
Reactor Coolant System Activity	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**
Maximum activity	0.000230	0.000255	0.000285	0.000284	0.000294	0.000312	0.000373	0.000441	0.000479	0.000462	0.000492	0.000520
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**
Maximum leakage	0.090	0.082	0.081	0.080	0.074	0.075	0.075	0.062	0.055	0.050	0.107	0.092
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	**0.9**	**0.8**	**0.8**	**0.8**	**0.7**	**0.8**	**0.8**	**0.6**	**0.6**	**0.5**	**1.1**	**0.9**
Reactor Coolant System Leakage	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**
Maximum leakage	0.131	0.108	0.109	0.096	0.094	0.087	0.390	0.342	0.181	0.213	0.288	0.251
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	**1.3**	**1.1**	**1.1**	**1.0**	**0.9**	**0.9**	**3.9**	**3.4**	**1.8**	**2.1**	**2.9**	**2.5**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful opportunities	10.0	11.0	39.0	30.0	28.0	42.0	28.0	31.0
Total opportunities	10.0	14.0	40.0	31.0	29.0	43.0	29.0	33.0
Indicator value	**93.9%**	**95.4%**	**95.8%**	**95.5%**	**95.2%**	**95.5%**	**95.5%**	**95.6%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Participating Key personnel	156.0	152.0	140.0	160.0	175.0	177.0	179.0	177.0
Total Key personnel	162.0	157.0	154.0	170.0	175.0	177.0	179.0	177.0
Indicator value	**96.3%**	**96.8%**	**90.9%**	**94.1%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Successful siren-tests	474	476	476	476	474	476	475	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.8%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: April 26, 2010

North Anna 1

2Q/2010 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	1585.2	2171.5	2208.0	2080.7	2159.0	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	1585.2	2171.5	2208.0	2080.7	2159.0	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.8**	**0.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
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**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Safety System Functional Failures	0	0	0	0	0	1	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**1**

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/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	1.10E-08	1.10E-08	1.10E-08	3.10E-08	9.00E-08	9.20E-08	8.46E-08	5.90E-08
URI (ΔCDF)	2.40E-07	2.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.51E-07	-1.51E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.51E-07**	**2.51E-07**	**-1.39E-07**	**-1.19E-07**	**-6.00E-08**	**-5.80E-08**	**-6.60E-08**	**-9.20E-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/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.26E-08	-2.26E-08
URI (ΔCDF)	-8.70E-09	-8.70E-09	-8.80E-09	-8.80E-09	-9.00E-09	-9.10E-09	-9.08E-09	-9.08E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.07E-08**	**-3.07E-08**	**-3.08E-08**	**-3.08E-08**	**-3.10E-08**	**-3.11E-08**	**-3.20E-08**	**-3.20E-08**

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/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.24E-08	-2.24E-08
URI (ΔCDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-3.57E-08	-3.57E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-5.80E-08**	**-5.80E-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/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	1.70E-08	-3.70E-09	-3.70E-09	-3.70E-09	-3.70E-09	-3.70E-09	-3.87E-09	-3.87E-09
URI (ΔCDF)	-7.30E-09	-7.30E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.61E-09	-7.61E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.70E-09**	**-1.10E-08**	**-1.13E-08**	**-1.13E-08**	**-1.13E-08**	**-1.13E-08**	**-1.10E-08**	**-1.10E-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/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**
UAI (ΔCDF)	2.30E-09	-4.50E-10	-4.30E-11	1.10E-10	1.10E-10	1.10E-10	1.06E-10	-1.42E-10
URI (ΔCDF)	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.16E-08	-1.14E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.70E-09**	**-1.25E-08**	**-1.20E-08**	**-1.19E-08**	**-1.19E-08**	**-1.19E-08**	**-1.10E-08**	**-1.20E-08**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**
Maximum activity	0.000508	0.000599	0.000599	0.000631	0.000809	0.000752	0.000803	0.000897	0.000926	0.000230	0.000255	0.000285
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**
Reactor Coolant System Activity	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**
Maximum activity	0.000284	0.000294	0.000312	0.000373	0.000441	0.000479	0.000462	0.000492	0.000520	0.000535	0.000557	0.000527
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**
Maximum leakage	0.080	0.074	0.075	0.075	0.062	0.055	0.050	0.107	0.092	0.131	0.108	0.109
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	**0.8**	**0.7**	**0.8**	**0.8**	**0.6**	**0.6**	**0.5**	**1.1**	**0.9**	**1.3**	**1.1**	**1.1**
Reactor Coolant System Leakage	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**
Maximum leakage	0.096	0.094	0.087	0.390	0.342	0.181	0.213	0.288	0.251	0.452	0.878	0.235
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	**1.0**	**0.9**	**0.9**	**3.9**	**3.4**	**1.8**	**2.1**	**2.9**	**2.5**	**4.5**	**8.8**	**2.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful opportunities	11.0	39.0	30.0	28.0	42.0	28.0	31.0	50.0
Total opportunities	14.0	40.0	31.0	29.0	43.0	29.0	33.0	50.0
Indicator value	**95.4%**	**95.8%**	**95.5%**	**95.2%**	**95.5%**	**95.5%**	**95.6%**	**96.3%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Participating Key personnel	152.0	140.0	160.0	175.0	177.0	179.0	177.0	175.0
Total Key personnel	157.0	154.0	170.0	175.0	177.0	179.0	177.0	175.0
Indicator value	**96.8%**	**90.9%**	**94.1%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Successful siren-tests	476	476	476	474	476	475	476	408
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.8%**	**96.4%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: July 26, 2010

North Anna 1

3Q/2010 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	1585.2	2171.5	2208.0	2080.7	2159.0	2184.0	1653.7
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned power changes	0	0	0	0	1.0	0	0	1.0
Critical hours	2209.0	1585.2	2171.5	2208.0	2080.7	2159.0	2184.0	1653.7
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**0.8**	**0.8**	**1.7**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
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**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Safety System Functional Failures	0	0	0	0	1	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**1**	**1**	**1**	**1**

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	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	1.10E-08	1.10E-08	3.10E-08	9.00E-08	9.20E-08	8.46E-08	5.90E-08	4.10E-08
URI (ΔCDF)	2.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.51E-07	-1.51E-07	-2.29E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.51E-07**	**-1.39E-07**	**-1.19E-07**	**-6.00E-08**	**-5.80E-08**	**-6.60E-08**	**-9.20E-08**	**1.80E-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	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.26E-08	-2.26E-08	-7.00E-08
URI (ΔCDF)	-8.70E-09	-8.80E-09	-8.80E-09	-9.00E-09	-9.10E-09	-9.08E-09	-9.08E-09	-1.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.07E-08**	**-3.08E-08**	**-3.08E-08**	**-3.10E-08**	**-3.11E-08**	**-3.20E-08**	**-3.20E-08**	**-8.30E-08**

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	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.24E-08	-2.24E-08	-5.23E-09
URI (ΔCDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-3.57E-08	-3.57E-08	-9.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-5.80E-08**	**-5.80E-08**	**-1.50E-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	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**
UAI (ΔCDF)	-3.70E-09	-3.70E-09	-3.70E-09	-3.70E-09	-3.70E-09	-3.87E-09	-3.87E-09	-3.75E-09
URI (ΔCDF)	-7.30E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.61E-09	-7.61E-09	-7.86E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-08**	**-1.13E-08**	**-1.13E-08**	**-1.13E-08**	**-1.13E-08**	**-1.10E-08**	**-1.10E-08**	**-1.20E-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	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	-4.50E-10	-4.30E-11	1.10E-10	1.10E-10	1.10E-10	1.06E-10	-1.42E-10	-2.62E-11
URI (ΔCDF)	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.16E-08	-1.14E-08	-2.85E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.25E-08**	**-1.20E-08**	**-1.19E-08**	**-1.19E-08**	**-1.19E-08**	**-1.10E-08**	**-1.20E-08**	**-3.10E-10**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**
Maximum activity	0.000631	0.000809	0.000752	0.000803	0.000897	0.000926	0.000230	0.000255	0.000285	0.000284	0.000294	0.000312
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
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**
Maximum activity	0.000373	0.000441	0.000479	0.000462	0.000492	0.000520	0.000535	0.000557	0.000527	0.043700	0.000800	0.029900
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**4.4**	**0.1**	**3.0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**
Maximum leakage	0.075	0.062	0.055	0.050	0.107	0.092	0.131	0.108	0.109	0.096	0.094	0.087
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	**0.8**	**0.6**	**0.6**	**0.5**	**1.1**	**0.9**	**1.3**	**1.1**	**1.1**	**1.0**	**0.9**	**0.9**
Reactor Coolant System Leakage	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**
Maximum leakage	0.390	0.342	0.181	0.213	0.288	0.251	0.452	0.878	0.235	0.250	0.253	0.275
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	**3.9**	**3.4**	**1.8**	**2.1**	**2.9**	**2.5**	**4.5**	**8.8**	**2.4**	**2.5**	**2.5**	**2.8**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful opportunities	39.0	30.0	28.0	42.0	28.0	31.0	50.0	38.0
Total opportunities	40.0	31.0	29.0	43.0	29.0	33.0	50.0	39.0
Indicator value	**95.8%**	**95.5%**	**95.2%**	**95.5%**	**95.5%**	**95.6%**	**96.3%**	**97.3%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Participating Key personnel	140.0	160.0	175.0	177.0	179.0	177.0	175.0	165.0
Total Key personnel	154.0	170.0	175.0	177.0	179.0	177.0	175.0	165.0
Indicator value	**90.9%**	**94.1%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Successful siren-tests	476	476	474	476	475	476	408	475
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.8%**	**96.4%**	**96.3%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: October 25, 2010

North Anna 1

4Q/2010 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	1585.2	2171.5	2208.0	2080.7	2159.0	2184.0	1653.7	1696.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned power changes	0	0	0	1.0	0	0	1.0	1.0
Critical hours	1585.2	2171.5	2208.0	2080.7	2159.0	2184.0	1653.7	1696.2
Indicator value	**0**	**0**	**0**	**0.9**	**0.8**	**0.8**	**1.7**	**1.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
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**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Safety System Functional Failures	0	0	0	1	0	0	0	1
Indicator value	**0**	**0**	**0**	**1**	**1**	**1**	**1**	**1**

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	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	1.10E-08	3.10E-08	9.00E-08	9.20E-08	8.46E-08	5.90E-08	4.10E-08	4.16E-08
URI (ΔCDF)	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.51E-07	-1.51E-07	-2.29E-08	-2.29E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.39E-07**	**-1.19E-07**	**-6.00E-08**	**-5.80E-08**	**-6.60E-08**	**-9.20E-08**	**1.80E-08**	**1.90E-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	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.26E-08	-2.26E-08	-7.00E-08	-7.00E-08
URI (ΔCDF)	-8.80E-09	-8.80E-09	-9.00E-09	-9.10E-09	-9.08E-09	-9.08E-09	-1.28E-08	-1.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.08E-08**	**-3.08E-08**	**-3.10E-08**	**-3.11E-08**	**-3.20E-08**	**-3.20E-08**	**-8.30E-08**	**-8.30E-08**

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	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.24E-08	-2.24E-08	-5.23E-09	-5.23E-09
URI (ΔCDF)	-4.00E-08	-4.00E-08	-4.00E-08	-4.00E-08	-3.57E-08	-3.57E-08	-9.60E-09	-9.14E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-5.80E-08**	**-5.80E-08**	**-1.50E-08**	**-1.40E-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	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	-3.70E-09	-3.70E-09	-3.70E-09	-3.70E-09	-3.87E-09	-3.87E-09	-3.75E-09	-2.47E-09
URI (ΔCDF)	-7.60E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.61E-09	-7.61E-09	-7.86E-09	-7.75E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.13E-08**	**-1.13E-08**	**-1.13E-08**	**-1.13E-08**	**-1.10E-08**	**-1.10E-08**	**-1.20E-08**	**-1.00E-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	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	-4.30E-11	1.10E-10	1.10E-10	1.10E-10	1.06E-10	-1.42E-10	-2.62E-11	-1.38E-11
URI (ΔCDF)	-1.20E-08	-1.20E-08	-1.20E-08	-1.20E-08	-1.16E-08	-1.14E-08	-2.85E-10	-2.85E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.19E-08**	**-1.19E-08**	**-1.19E-08**	**-1.10E-08**	**-1.20E-08**	**-3.10E-10**	**-3.00E-10**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**
Maximum activity	0.000803	0.000897	0.000926	0.000230	0.000255	0.000285	0.000284	0.000294	0.000312	0.000373	0.000441	0.000479
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
Indicator value	**0.1**	**0.1**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**
Maximum activity	0.000462	0.000492	0.000520	0.000535	0.000557	0.000527	0.043700	0.000800	0.029900	0.000166	0.000238	0.000203
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
Indicator value	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**4.4**	**0.1**	**3.0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**
Maximum leakage	0.050	0.107	0.092	0.131	0.108	0.109	0.096	0.094	0.087	0.390	0.342	0.181
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	**0.5**	**1.1**	**0.9**	**1.3**	**1.1**	**1.1**	**1.0**	**0.9**	**0.9**	**3.9**	**3.4**	**1.8**
Reactor Coolant System Leakage	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**
Maximum leakage	0.213	0.288	0.251	0.452	0.878	0.235	0.250	0.253	0.275	0.218	0.147	0.123
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	**2.1**	**2.9**	**2.5**	**4.5**	**8.8**	**2.4**	**2.5**	**2.5**	**2.8**	**2.2**	**1.5**	**1.2**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful opportunities	30.0	28.0	42.0	28.0	31.0	50.0	38.0	46.0
Total opportunities	31.0	29.0	43.0	29.0	33.0	50.0	39.0	46.0
Indicator value	**95.5%**	**95.2%**	**95.5%**	**95.5%**	**95.6%**	**96.3%**	**97.3%**	**97.7%**

Licensee Comments: none

Notes

ERO Drill Participation	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Participating Key personnel	160.0	175.0	177.0	179.0	177.0	175.0	165.0	163.0
Total Key personnel	170.0	175.0	177.0	179.0	177.0	175.0	165.0	163.0
Indicator value	**94.1%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Successful siren-tests	476	474	476	475	476	408	475	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.8%**	**96.4%**	**96.3%**	**96.4%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: January 24, 2011

North Anna 1

1Q/2011 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2171.5	2208.0	2080.7	2159.0	2184.0	1653.7	1696.2	2159.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned power changes	0	0	1.0	0	0	1.0	1.0	0
Critical hours	2171.5	2208.0	2080.7	2159.0	2184.0	1653.7	1696.2	2159.0
Indicator value	**0**	**0**	**0.9**	**0.8**	**0.8**	**1.7**	**1.8**	**1.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
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**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Safety System Functional Failures	0	0	1	0	0	0	1	0
Indicator value	**0**	**0**	**1**	**1**	**1**	**1**	**1**	**1**

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	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**
UAI (ΔCDF)	3.10E-08	9.00E-08	9.20E-08	8.46E-08	5.90E-08	4.10E-08	4.16E-08	3.82E-08
URI (ΔCDF)	-1.50E-07	-1.50E-07	-1.50E-07	-1.51E-07	-1.51E-07	-2.29E-08	-2.29E-08	-2.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.19E-07**	**-6.00E-08**	**-5.80E-08**	**-6.60E-08**	**-9.20E-08**	**1.80E-08**	**1.90E-08**	**1.60E-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	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.26E-08	-2.26E-08	-7.00E-08	-7.00E-08	-7.00E-08
URI (ΔCDF)	-8.80E-09	-9.00E-09	-9.10E-09	-9.08E-09	-9.08E-09	-1.28E-08	-1.28E-08	-1.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.08E-08**	**-3.10E-08**	**-3.11E-08**	**-3.20E-08**	**-3.20E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**

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	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.24E-08	-2.24E-08	-5.23E-09	-5.23E-09	-5.23E-09
URI (ΔCDF)	-4.00E-08	-4.00E-08	-4.00E-08	-3.57E-08	-3.57E-08	-9.60E-09	-9.14E-09	-9.14E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.20E-08**	**-6.20E-08**	**-6.20E-08**	**-5.80E-08**	**-5.80E-08**	**-1.50E-08**	**-1.40E-08**	**-1.40E-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	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**
UAI (ΔCDF)	-3.70E-09	-3.70E-09	-3.70E-09	-3.87E-09	-3.87E-09	-3.75E-09	-2.47E-09	-2.47E-09
URI (ΔCDF)	-7.60E-09	-7.60E-09	-7.60E-09	-7.61E-09	-7.61E-09	-7.86E-09	-7.75E-09	-7.75E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.13E-08**	**-1.13E-08**	**-1.13E-08**	**-1.10E-08**	**-1.10E-08**	**-1.20E-08**	**-1.00E-08**	**-1.00E-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	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	1.10E-10	1.10E-10	1.10E-10	1.06E-10	-1.42E-10	-2.62E-11	-1.38E-11	-1.39E-11
URI (ΔCDF)	-1.20E-08	-1.20E-08	-1.20E-08	-1.16E-08	-1.14E-08	-2.85E-10	-2.85E-10	-4.60E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.19E-08**	**-1.19E-08**	**-1.19E-08**	**-1.10E-08**	**-1.20E-08**	**-3.10E-10**	**-3.00E-10**	**-4.70E-10**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**
Maximum activity	0.000230	0.000255	0.000285	0.000284	0.000294	0.000312	0.000373	0.000441	0.000479	0.000462	0.000492	0.000520
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**
Reactor Coolant System Activity	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**
Maximum activity	0.000535	0.000557	0.000527	0.043700	0.000800	0.029900	0.000166	0.000238	0.000203	0.000287	0.000216	0.000228
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
Indicator value	**0.1**	**0.1**	**0.1**	**4.4**	**0.1**	**3.0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**
Maximum leakage	0.131	0.108	0.109	0.096	0.094	0.087	0.390	0.342	0.181	0.213	0.288	0.251
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	**1.3**	**1.1**	**1.1**	**1.0**	**0.9**	**0.9**	**3.9**	**3.4**	**1.8**	**2.1**	**2.9**	**2.5**
Reactor Coolant System Leakage	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**
Maximum leakage	0.452	0.878	0.235	0.250	0.253	0.275	0.218	0.147	0.123	0.104	0.097	0.095
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	**4.5**	**8.8**	**2.4**	**2.5**	**2.5**	**2.8**	**2.2**	**1.5**	**1.2**	**1.0**	**1.0**	**1.0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful opportunities	28.0	42.0	28.0	31.0	50.0	38.0	46.0	47.0
Total opportunities	29.0	43.0	29.0	33.0	50.0	39.0	46.0	47.0
Indicator value	**95.2%**	**95.5%**	**95.5%**	**95.6%**	**96.3%**	**97.3%**	**97.7%**	**98.1%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Participating Key personnel	175.0	177.0	179.0	177.0	175.0	165.0	163.0	168.0
Total Key personnel	175.0	177.0	179.0	177.0	175.0	165.0	163.0	168.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Successful siren-tests	474	476	475	476	408	475	476	474
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.9%**	**99.9%**	**99.8%**	**99.8%**	**96.4%**	**96.3%**	**96.4%**	**96.3%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: May 4, 2011

North Anna 1

2Q/2011 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2080.7	2159.0	2184.0	1653.7	1696.2	2159.0	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned power changes	0	1.0	0	0	1.0	1.0	0	0
Critical hours	2208.0	2080.7	2159.0	2184.0	1653.7	1696.2	2159.0	2184.0
Indicator value	**0**	**0.9**	**0.8**	**0.8**	**1.7**	**1.8**	**1.8**	**1.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
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**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Safety System Functional Failures	0	1	0	0	0	1	0	0
Indicator value	**0**	**1**	**1**	**1**	**1**	**1**	**1**	**1**

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/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**
UAI (ΔCDF)	9.00E-08	9.20E-08	8.46E-08	5.90E-08	4.10E-08	4.16E-08	3.82E-08	5.34E-09
URI (ΔCDF)	-1.50E-07	-1.50E-07	-1.51E-07	-1.51E-07	-2.29E-08	-2.29E-08	-2.27E-08	-1.39E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.00E-08**	**-5.80E-08**	**-6.60E-08**	**-9.20E-08**	**1.80E-08**	**1.90E-08**	**1.60E-08**	**-1.30E-07**

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/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.26E-08	-2.26E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08
URI (ΔCDF)	-9.00E-09	-9.10E-09	-9.08E-09	-9.08E-09	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-08**	**-3.11E-08**	**-3.20E-08**	**-3.20E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**

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/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.24E-08	-2.24E-08	-5.23E-09	-5.23E-09	-5.23E-09	-3.25E-09
URI (ΔCDF)	-4.00E-08	-4.00E-08	-3.57E-08	-3.57E-08	-9.60E-09	-9.14E-09	-9.14E-09	-1.01E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.20E-08**	**-6.20E-08**	**-5.80E-08**	**-5.80E-08**	**-1.50E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-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/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	-3.70E-09	-3.70E-09	-3.87E-09	-3.87E-09	-3.75E-09	-2.47E-09	-2.47E-09	-4.26E-10
URI (ΔCDF)	-7.60E-09	-7.60E-09	-7.61E-09	-7.61E-09	-7.86E-09	-7.75E-09	-7.75E-09	-7.75E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.13E-08**	**-1.13E-08**	**-1.10E-08**	**-1.10E-08**	**-1.20E-08**	**-1.00E-08**	**-1.00E-08**	**-8.20E-09**

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/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	1.10E-10	1.10E-10	1.06E-10	-1.42E-10	-2.62E-11	-1.38E-11	-1.39E-11	-1.94E-11
URI (ΔCDF)	-1.20E-08	-1.20E-08	-1.16E-08	-1.14E-08	-2.85E-10	-2.85E-10	-4.60E-10	-4.60E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.19E-08**	**-1.19E-08**	**-1.10E-08**	**-1.20E-08**	**-3.10E-10**	**-3.00E-10**	**-4.70E-10**	**-4.80E-10**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**
Maximum activity	0.000284	0.000294	0.000312	0.000373	0.000441	0.000479	0.000462	0.000492	0.000520	0.000535	0.000557	0.000527
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**
Reactor Coolant System Activity	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**
Maximum activity	0.043700	0.000800	0.029900	0.000166	0.000238	0.000203	0.000287	0.000216	0.000228	0.000242	0.000245	0.000253
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
Indicator value	**4.4**	**0.1**	**3.0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**
Maximum leakage	0.096	0.094	0.087	0.390	0.342	0.181	0.213	0.288	0.251	0.452	0.878	0.235
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	**1.0**	**0.9**	**0.9**	**3.9**	**3.4**	**1.8**	**2.1**	**2.9**	**2.5**	**4.5**	**8.8**	**2.4**
Reactor Coolant System Leakage	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**
Maximum leakage	0.250	0.253	0.275	0.218	0.147	0.123	0.104	0.097	0.095	0.094	0.099	0.093
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	**2.5**	**2.5**	**2.8**	**2.2**	**1.5**	**1.2**	**1.0**	**1.0**	**1.0**	**0.9**	**1.0**	**0.9**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful opportunities	42.0	28.0	31.0	50.0	38.0	46.0	47.0	64.0
Total opportunities	43.0	29.0	33.0	50.0	39.0	46.0	47.0	64.0
Indicator value	**95.5%**	**95.5%**	**95.6%**	**96.3%**	**97.3%**	**97.7%**	**98.1%**	**98.6%**

Licensee Comments: none

Notes

ERO Drill Participation	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Participating Key personnel	177.0	179.0	177.0	175.0	165.0	163.0	168.0	166.0
Total Key personnel	177.0	179.0	177.0	175.0	165.0	163.0	168.0	166.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Successful siren-tests	476	475	476	408	475	476	474	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.9%**	**99.8%**	**99.8%**	**96.4%**	**96.3%**	**96.4%**	**96.3%**	**99.8%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: July 22, 2011

North Anna 1

3Q/2011 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned scrams	0	0	0	0	1.0	0	0	1.0
Critical hours	2080.7	2159.0	2184.0	1653.7	1696.2	2159.0	2184.0	1285.9
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**	**1.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned power changes	1.0	0	0	1.0	1.0	0	0	0
Critical hours	2080.7	2159.0	2184.0	1653.7	1696.2	2159.0	2184.0	1285.9
Indicator value	**0.9**	**0.8**	**0.8**	**1.7**	**1.8**	**1.8**	**1.8**	**1.0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Scrams with complications	0	0	0	0	0	0	0	1.0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**1.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Safety System Functional Failures	1	0	0	0	1	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**

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	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	9.20E-08	8.46E-08	5.90E-08	4.10E-08	4.16E-08	3.82E-08	5.34E-09	1.16E-08
URI (ΔCDF)	-1.50E-07	-1.51E-07	-1.51E-07	-2.29E-08	-2.29E-08	-2.27E-08	-1.39E-07	-1.42E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.80E-08**	**-6.60E-08**	**-9.20E-08**	**1.80E-08**	**1.90E-08**	**1.60E-08**	**-1.30E-07**	**-1.30E-07**

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	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**
UAI (ΔCDF)	-2.20E-08	-2.26E-08	-2.26E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08
URI (ΔCDF)	-9.10E-09	-9.08E-09	-9.08E-09	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.11E-08**	**-3.20E-08**	**-3.20E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**

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	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	-2.20E-08	-2.24E-08	-2.24E-08	-5.23E-09	-5.23E-09	-5.23E-09	-3.25E-09	-2.99E-09
URI (ΔCDF)	-4.00E-08	-3.57E-08	-3.57E-08	-9.60E-09	-9.14E-09	-9.14E-09	-1.01E-08	-1.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.20E-08**	**-5.80E-08**	**-5.80E-08**	**-1.50E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.40E-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	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**
UAI (ΔCDF)	-3.70E-09	-3.87E-09	-3.87E-09	-3.75E-09	-2.47E-09	-2.47E-09	-4.26E-10	-1.55E-09
URI (ΔCDF)	-7.60E-09	-7.61E-09	-7.61E-09	-7.86E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.13E-08**	**-1.10E-08**	**-1.10E-08**	**-1.20E-08**	**-1.00E-08**	**-1.00E-08**	**-8.20E-09**	**-9.30E-09**

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	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**
UAI (ΔCDF)	1.10E-10	1.06E-10	-1.42E-10	-2.62E-11	-1.38E-11	-1.39E-11	-1.94E-11	-4.39E-11
URI (ΔCDF)	-1.20E-08	-1.16E-08	-1.14E-08	-2.85E-10	-2.85E-10	-4.60E-10	-4.60E-10	-4.62E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.19E-08**	**-1.10E-08**	**-1.20E-08**	**-3.10E-10**	**-3.00E-10**	**-4.70E-10**	**-4.80E-10**	**-5.10E-10**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**
Maximum activity	0.000373	0.000441	0.000479	0.000462	0.000492	0.000520	0.000535	0.000557	0.000527	0.043700	0.000800	0.029900
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**4.4**	**0.1**	**3.0**

Reactor Coolant System Activity	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**
Maximum activity	0.000166	0.000238	0.000203	0.000287	0.000216	0.000228	0.000242	0.000245	0.000253	0.000266	0.000809	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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**N/A**

Licensee Comments:

9/11: Unit offline August 23, 2011 through September 30, 2011

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**
Maximum leakage	0.390	0.342	0.181	0.213	0.288	0.251	0.452	0.878	0.235	0.250	0.253	0.275
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	**3.9**	**3.4**	**1.8**	**2.1**	**2.9**	**2.5**	**4.5**	**8.8**	**2.4**	**2.5**	**2.5**	**2.8**
Reactor Coolant System Leakage	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**
Maximum leakage	0.218	0.147	0.123	0.104	0.097	0.095	0.094	0.099	0.093	0.113	0.096	0
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	**2.2**	**1.5**	**1.2**	**1.0**	**1.0**	**1.0**	**0.9**	**1.0**	**0.9**	**1.1**	**1.0**	**0**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful opportunities	28.0	31.0	50.0	38.0	46.0	47.0	64.0	8.0
Total opportunities	29.0	33.0	50.0	39.0	46.0	47.0	64.0	8.0
Indicator value	**95.5%**	**95.6%**	**96.3%**	**97.3%**	**97.7%**	**98.1%**	**98.6%**	**98.7%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Participating Key personnel	179.0	177.0	175.0	165.0	163.0	168.0	166.0	171.0
Total Key personnel	179.0	177.0	175.0	165.0	163.0	168.0	166.0	171.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Successful siren-tests	475	476	408	475	476	474	476	474
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.8%**	**99.8%**	**96.4%**	**96.3%**	**96.4%**	**96.3%**	**99.8%**	**99.8%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: November 29, 2011

North Anna 1

4Q/2011 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned scrams	0	0	0	1.0	0	0	1.0	0
Critical hours	2159.0	2184.0	1653.7	1696.2	2159.0	2184.0	1285.9	1149.1
Indicator value	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**	**1.9**	**1.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned power changes	0	0	1.0	1.0	0	0	0	0
Critical hours	2159.0	2184.0	1653.7	1696.2	2159.0	2184.0	1285.9	1149.1
Indicator value	**0.8**	**0.8**	**1.7**	**1.8**	**1.8**	**1.8**	**1.0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Scrams with complications	0	0	0	0	0	0	1.0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**1.0**	**1.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Safety System Functional Failures	0	0	0	1	0	0	0	1
Indicator value	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**

Licensee Comments:

4Q/11: Dual unit trip with loss of offsite power from seismic event on 8/23/11. LER N1-2011-003-00.

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/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	8.46E-08	5.90E-08	4.10E-08	4.16E-08	3.82E-08	5.34E-09	1.16E-08	3.59E-08
URI (ΔCDF)	-1.51E-07	-1.51E-07	-2.29E-08	-2.29E-08	-2.27E-08	-1.39E-07	-1.42E-07	-1.42E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.60E-08**	**-9.20E-08**	**1.80E-08**	**1.90E-08**	**1.60E-08**	**-1.30E-07**	**-1.30E-07**	**-1.10E-07**

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	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**
UAI (ΔCDF)	-2.26E-08	-2.26E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08
URI (ΔCDF)	-9.08E-09	-9.08E-09	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.20E-08**	**-3.20E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**

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	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	-2.24E-08	-2.24E-08	-5.23E-09	-5.23E-09	-5.23E-09	-3.25E-09	-2.99E-09	-3.01E-09
URI (ΔCDF)	-3.57E-08	-3.57E-08	-9.60E-09	-9.14E-09	-9.14E-09	-1.01E-08	-1.12E-08	-1.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.80E-08**	**-5.80E-08**	**-1.50E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-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	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**
UAI (ΔCDF)	-3.87E-09	-3.87E-09	-3.75E-09	-2.47E-09	-2.47E-09	-4.26E-10	-1.55E-09	-1.57E-09
URI (ΔCDF)	-7.61E-09	-7.61E-09	-7.86E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-08**	**-1.10E-08**	**-1.20E-08**	**-1.00E-08**	**-1.00E-08**	**-8.20E-09**	**-9.30E-09**	**-9.30E-09**

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	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**
UAI (ΔCDF)	1.06E-10	-1.42E-10	-2.62E-11	-1.38E-11	-1.39E-11	-1.94E-11	-4.39E-11	-4.52E-11
URI (ΔCDF)	-1.16E-08	-1.14E-08	-2.85E-10	-2.85E-10	-4.60E-10	-4.60E-10	-4.62E-10	-4.62E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-08**	**-1.20E-08**	**-3.10E-10**	**-3.00E-10**	**-4.70E-10**	**-4.80E-10**	**-5.10E-10**	**-5.10E-10**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**
Maximum activity	0.000462	0.000492	0.000520	0.000535	0.000557	0.000527	0.043700	0.000800	0.029900	0.000166	0.000238	0.000203
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
Indicator value	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**4.4**	**0.1**	**3.0**	**0**	**0**	**0**

Reactor Coolant System Activity	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**
Maximum activity	0.000287	0.000216	0.000228	0.000242	0.000245	0.000253	0.000266	0.000809	N/A	N/A	0.000379	0.000310
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**N/A**	**N/A**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**
Maximum leakage	0.213	0.288	0.251	0.452	0.878	0.235	0.250	0.253	0.275	0.218	0.147	0.123
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	**2.1**	**2.9**	**2.5**	**4.5**	**8.8**	**2.4**	**2.5**	**2.5**	**2.8**	**2.2**	**1.5**	**1.2**
Reactor Coolant System Leakage	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**
Maximum leakage	0.104	0.097	0.095	0.094	0.099	0.093	0.113	0.096	0	0	0.039	0.038
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	**1.0**	**1.0**	**1.0**	**0.9**	**1.0**	**0.9**	**1.1**	**1.0**	**0**	**0**	**0.4**	**0.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful opportunities	31.0	50.0	38.0	46.0	47.0	64.0	8.0	8.0
Total opportunities	33.0	50.0	39.0	46.0	47.0	64.0	8.0	8.0
Indicator value	**95.6%**	**96.3%**	**97.3%**	**97.7%**	**98.1%**	**98.6%**	**98.7%**	**99.0%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Participating Key personnel	177.0	175.0	165.0	163.0	168.0	166.0	171.0	168.0
Total Key personnel	177.0	175.0	165.0	163.0	168.0	166.0	171.0	168.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful siren-tests	476	408	475	476	474	476	474	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.8%**	**96.4%**	**96.3%**	**96.4%**	**96.3%**	**99.8%**	**99.8%**	**99.8%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: February 2, 2012

North Anna 1

1Q/2012 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned scrams	0	0	1.0	0	0	1.0	0	0
Critical hours	2184.0	1653.7	1696.2	2159.0	2184.0	1285.9	1149.1	1681.2
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.9**	**1.9**	**1.0**	**1.1**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	0	1.0	1.0	0	0	0	0	1.0
Critical hours	2184.0	1653.7	1696.2	2159.0	2184.0	1285.9	1149.1	1681.2
Indicator value	**0.8**	**1.7**	**1.8**	**1.8**	**1.8**	**1.0**	**0**	**1.1**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Scrams with complications	0	0	0	0	0	1.0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**1.0**	**1.0**	**1.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Safety System Functional Failures	0	0	1	0	0	0	1	0
Indicator value	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**

Licensee Comments:

4Q/11: Dual unit trip with loss of offsite power from seismic event on 8/23/11. LER N1-2011-003-00.

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	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**
UAI (ΔCDF)	5.90E-08	4.10E-08	4.16E-08	3.82E-08	5.34E-09	1.16E-08	3.59E-08	3.51E-08
URI (ΔCDF)	-7.60E-08	-1.96E-09	-1.96E-09	-1.73E-09	-1.18E-07	-1.22E-07	-1.22E-07	-5.55E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-08**	**3.90E-08**	**4.00E-08**	**3.70E-08**	**-1.10E-07**	**-1.10E-07**	**-8.60E-08**	**3.00E-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	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**
UAI (ΔCDF)	-2.26E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08
URI (ΔCDF)	-9.08E-09	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.20E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**

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	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	-2.24E-08	-5.23E-09	-5.23E-09	-5.23E-09	-3.25E-09	-2.99E-09	-3.01E-09	-2.69E-09
URI (ΔCDF)	-3.57E-08	-9.60E-09	-9.14E-09	-9.14E-09	-1.01E-08	-1.12E-08	-1.12E-08	-1.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.80E-08**	**-1.50E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.40E-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	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**
UAI (ΔCDF)	-3.87E-09	-3.75E-09	-2.47E-09	-2.47E-09	-4.26E-10	-1.55E-09	-1.57E-09	-2.36E-09
URI (ΔCDF)	-7.61E-09	-7.86E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.20E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-08**	**-1.20E-08**	**-1.00E-08**	**-1.00E-08**	**-8.20E-09**	**-9.30E-09**	**-9.30E-09**	**-9.60E-09**

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	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**
UAI (ΔCDF)	-1.42E-10	-2.62E-11	-1.38E-11	-1.39E-11	-1.94E-11	-4.39E-11	-4.52E-11	-5.71E-11
URI (ΔCDF)	-1.14E-08	-2.85E-10	-2.85E-10	-4.60E-10	-4.60E-10	-4.62E-10	-4.62E-10	-4.62E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-3.10E-10**	**-3.00E-10**	**-4.70E-10**	**-4.80E-10**	**-5.10E-10**	**-5.10E-10**	**-5.20E-10**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**
Maximum activity	0.000535	0.000557	0.000527	0.043700	0.000800	0.029900	0.000166	0.000238	0.000203	0.000287	0.000216	0.000228
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
Indicator value	**0.1**	**0.1**	**0.1**	**4.4**	**0.1**	**3.0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**
Maximum activity	0.000242	0.000245	0.000253	0.000266	0.000809	N/A	N/A	0.000379	0.000310	0.000611	0.000334	0.003350
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
Indicator value	**0**	**0**	**0**	**0**	**0.1**	**N/A**	**N/A**	**0**	**0**	**0.1**	**0**	**0.3**

Licensee Comments:

9/11: Unit offline August 23, 2011 through September 30, 2011

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**
Maximum leakage	0.452	0.878	0.235	0.250	0.253	0.275	0.218	0.147	0.123	0.104	0.097	0.095
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	**4.5**	**8.8**	**2.4**	**2.5**	**2.5**	**2.8**	**2.2**	**1.5**	**1.2**	**1.0**	**1.0**	**1.0**
Reactor Coolant System Leakage	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**
Maximum leakage	0.094	0.099	0.093	0.113	0.096	0	0	0.039	0.038	0.035	0.038	0.035
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	**0.9**	**1.0**	**0.9**	**1.1**	**1.0**	**0**	**0**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful opportunities	50.0	38.0	46.0	47.0	64.0	8.0	8.0	31.0
Total opportunities	50.0	39.0	46.0	47.0	64.0	8.0	8.0	31.0
Indicator value	**96.3%**	**97.3%**	**97.7%**	**98.1%**	**98.6%**	**98.7%**	**99.0%**	**99.7%**

Licensee Comments: none

ERO Drill Participation

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Participating Key personnel	175.0	165.0	163.0	168.0	166.0	171.0	168.0	164.0
Total Key personnel	175.0	165.0	163.0	168.0	166.0	171.0	168.0	164.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Successful siren-tests	408	475	476	474	476	474	476	475
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**96.4%**	**96.3%**	**96.4%**	**96.3%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Security information not publicly available.

Last Modified: April 24, 2012

North Anna 1

2Q/2012 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned scrams	0	1.0	0	0	1.0	0	0	0
Critical hours	1653.7	1696.2	2159.0	2184.0	1285.9	1149.1	1681.2	1474.6
Indicator value	**0**	**0.9**	**0.9**	**0.9**	**1.9**	**1.0**	**1.1**	**1.3**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned power changes	1.0	1.0	0	0	0	0	1.0	0
Critical hours	1653.7	1696.2	2159.0	2184.0	1285.9	1149.1	1681.2	1474.6
Indicator value	**1.7**	**1.8**	**1.8**	**1.8**	**1.0**	**0**	**1.1**	**1.3**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Scrams with complications	0	0	0	0	1.0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**1.0**	**1.0**	**1.0**	**1.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Safety System Functional Failures	0	1	0	0	0	1	0	0
Indicator value	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**

Licensee Comments:

4Q/11: Dual unit trip with loss of offsite power from seismic event on 8/23/11. LER N1-2011-003-00.

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/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	4.10E-08	4.16E-08	3.82E-08	5.34E-09	1.16E-08	3.59E-08	3.51E-08	-1.03E-08
URI (ΔCDF)	-1.96E-09	-1.96E-09	-1.73E-09	-1.18E-07	-1.22E-07	-1.22E-07	-5.55E-09	-5.55E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.90E-08**	**4.00E-08**	**3.70E-08**	**-1.10E-07**	**-1.10E-07**	**-8.60E-08**	**3.00E-08**	**-1.60E-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/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08
URI (ΔCDF)	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08	-1.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**

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/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-5.23E-09	-5.23E-09	-5.23E-09	-3.25E-09	-2.99E-09	-3.01E-09	-2.69E-09	-2.25E-09
URI (ΔCDF)	-9.60E-09	-9.14E-09	-9.14E-09	-1.01E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-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/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-3.75E-09	-2.47E-09	-2.47E-09	-4.26E-10	-1.55E-09	-1.57E-09	-2.36E-09	-2.31E-09
URI (ΔCDF)	-7.86E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.20E-09	-7.20E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.00E-08**	**-1.00E-08**	**-8.20E-09**	**-9.30E-09**	**-9.30E-09**	**-9.60E-09**	**-9.50E-09**

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/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**
UAI (ΔCDF)	-2.62E-11	-1.38E-11	-1.39E-11	-1.94E-11	-4.39E-11	-4.52E-11	-5.71E-11	-6.14E-11
URI (ΔCDF)	-2.85E-10	-2.85E-10	-4.60E-10	-4.60E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-10**	**-3.00E-10**	**-4.70E-10**	**-4.80E-10**	**-5.10E-10**	**-5.10E-10**	**-5.20E-10**	**-5.20E-10**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum activity	0.043700	0.000800	0.029900	0.000166	0.000238	0.000203	0.000287	0.000216	0.000228	0.000242	0.000245	0.000253
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
Indicator value	**4.4**	**0.1**	**3.0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	0.000266	0.000809	N/A	N/A	0.000379	0.000310	0.000611	0.000334	0.003350	0.000006	0.000155	0.000167
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
Indicator value	**0**	**0.1**	**N/A**	**N/A**	**0**	**0**	**0.1**	**0**	**0.3**	**0**	**0**	**0**

Licensee Comments:

9/11: Unit offline August 23, 2011 through September 30, 2011

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/10	8/10	9/10	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11
Maximum leakage	0.250	0.253	0.275	0.218	0.147	0.123	0.104	0.097	0.095	0.094	0.099	0.093
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	**2.5**	**2.5**	**2.8**	**2.2**	**1.5**	**1.2**	**1.0**	**1.0**	**1.0**	**0.9**	**1.0**	**0.9**
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	0.113	0.096	0	0	0.039	0.038	0.035	0.038	0.035	0.006	0.013	0.006
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	**1.1**	**1.0**	**0**	**0**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful opportunities	38.0	46.0	47.0	64.0	8.0	8.0	31.0	12.0
Total opportunities	39.0	46.0	47.0	64.0	8.0	8.0	31.0	13.0
Indicator value	**97.3%**	**97.7%**	**98.1%**	**98.6%**	**98.7%**	**99.0%**	**99.7%**	**99.2%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Participating Key personnel	165.0	163.0	168.0	166.0	171.0	168.0	164.0	156.0
Total Key personnel	165.0	163.0	168.0	166.0	171.0	168.0	164.0	156.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Successful siren-tests	475	476	474	476	474	476	475	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**96.3%**	**96.4%**	**96.3%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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.

North Anna 1

3Q/2012 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned scrams	1.0	0	0	1.0	0	0	0	0
Critical hours	1696.2	2159.0	2184.0	1285.9	1149.1	1681.2	1474.6	2208.0
Indicator value	**0.9**	**0.9**	**0.9**	**1.9**	**1.0**	**1.1**	**1.3**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned power changes	1.0	0	0	0	0	1.0	0	0
Critical hours	1696.2	2159.0	2184.0	1285.9	1149.1	1681.2	1474.6	2208.0
Indicator value	**1.8**	**1.8**	**1.8**	**1.0**	**0**	**1.1**	**1.3**	**1.1**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Scrams with complications	0	0	0	1.0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**1.0**	**1.0**	**1.0**	**1.0**	**0.0**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Safety System Functional Failures	1	0	0	0	1	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**

Licensee Comments:

4Q/11: Dual unit trip with loss of offsite power from seismic event on 8/23/11. LER N1-2011-003-00.

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	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**
UAI (ΔCDF)	4.16E-08	3.82E-08	5.34E-09	1.16E-08	3.59E-08	3.51E-08	-1.03E-08	-1.54E-08
URI (ΔCDF)	-1.96E-09	-1.73E-09	-1.18E-07	-1.22E-07	-1.22E-07	-5.55E-09	-5.55E-09	-5.55E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.00E-08**	**3.70E-08**	**-1.10E-07**	**-1.10E-07**	**-8.60E-08**	**3.00E-08**	**-1.60E-08**	**-2.10E-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	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**
UAI (ΔCDF)	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08
URI (ΔCDF)	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08	-1.27E-08	-1.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**

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	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**
UAI (ΔCDF)	-5.23E-09	-5.23E-09	-3.25E-09	-2.99E-09	-3.01E-09	-2.69E-09	-2.25E-09	-2.23E-09
URI (ΔCDF)	-9.14E-09	-9.14E-09	-1.01E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-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	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**
UAI (ΔCDF)	-2.47E-09	-2.47E-09	-4.26E-10	-1.55E-09	-1.57E-09	-2.36E-09	-2.31E-09	1.85E-08
URI (ΔCDF)	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.20E-09	-7.20E-09	-7.20E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-08**	**-1.00E-08**	**-8.20E-09**	**-9.30E-09**	**-9.30E-09**	**-9.60E-09**	**-9.50E-09**	**1.10E-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	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**
UAI (ΔCDF)	-1.38E-11	-1.39E-11	-1.94E-11	-4.39E-11	-4.52E-11	-5.71E-11	-6.14E-11	-6.14E-11
URI (ΔCDF)	-2.85E-10	-4.60E-10	-4.60E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.00E-10**	**-4.70E-10**	**-4.80E-10**	**-5.10E-10**	**-5.10E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum activity	0.000166	0.000238	0.000203	0.000287	0.000216	0.000228	0.000242	0.000245	0.000253	0.000266	0.000809	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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**N/A**

Reactor Coolant System Activity	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum activity	N/A	0.000379	0.000310	0.000611	0.000334	0.003350	0.000006	0.000155	0.000167	0.000174	0.000178	0.000198
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
Indicator value	**N/A**	**0**	**0**	**0.1**	**0**	**0.3**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments:

9/11: Unit offline August 23, 2011 through September 30, 2011

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/10	11/10	12/10	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11
Maximum leakage	0.218	0.147	0.123	0.104	0.097	0.095	0.094	0.099	0.093	0.113	0.096	0
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	**2.2**	**1.5**	**1.2**	**1.0**	**1.0**	**1.0**	**0.9**	**1.0**	**0.9**	**1.1**	**1.0**	**0**
Reactor Coolant System Leakage	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**
Maximum leakage	0	0.039	0.038	0.035	0.038	0.035	0.006	0.013	0.006	0	0.007	0.001
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	**0**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.1**	**0.1**	**0.1**	**0**	**0.1**	**0**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful opportunities	46.0	47.0	64.0	8.0	8.0	31.0	12.0	109.0
Total opportunities	46.0	47.0	64.0	8.0	8.0	31.0	13.0	110.0
Indicator value	**97.7%**	**98.1%**	**98.6%**	**98.7%**	**99.0%**	**99.7%**	**99.2%**	**99.4%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Participating Key personnel	163.0	168.0	166.0	171.0	168.0	164.0	156.0	164.0
Total Key personnel	163.0	168.0	166.0	171.0	168.0	164.0	156.0	164.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Successful siren-tests	476	474	476	474	476	475	476	475
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**96.4%**	**96.3%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
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**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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: October 24, 2012

North Anna 1

4Q/2012 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2159.0	2184.0	1285.9	1149.1	1681.2	1474.6	2208.0	2209.0
Indicator value	**0.9**	**0.9**	**1.9**	**1.0**	**1.1**	**1.3**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2159.0	2184.0	1285.9	1149.1	1681.2	1474.6	2208.0	2209.0
Indicator value	**1.8**	**1.8**	**1.0**	**0**	**1.1**	**1.3**	**1.1**	**0.9**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Scrams with complications	0	0	1.0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**1.0**	**1.0**	**1.0**	**1.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Safety System Functional Failures	0	0	0	1	0	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**0**

Licensee Comments:

4Q/11: Dual unit trip with loss of offsite power from seismic event on 8/23/11. LER N1-2011-003-00.

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/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (ΔCDF)	3.82E-08	5.34E-09	1.16E-08	3.59E-08	3.51E-08	-1.03E-08	-1.54E-08	-1.54E-08
URI (ΔCDF)	-1.73E-09	-1.18E-07	-1.22E-07	-1.22E-07	-5.55E-09	-5.55E-09	-5.55E-09	-3.77E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.70E-08**	**-1.10E-07**	**-1.10E-07**	**-8.60E-08**	**3.00E-08**	**-1.60E-08**	**-2.10E-08**	**-1.90E-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	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (ΔCDF)	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08
URI (ΔCDF)	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08	-1.27E-08	-1.27E-08	-1.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**

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	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (ΔCDF)	-5.23E-09	-3.25E-09	-2.99E-09	-3.01E-09	-2.69E-09	-2.25E-09	-2.23E-09	-2.35E-09
URI (ΔCDF)	-9.14E-09	-1.01E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-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	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (ΔCDF)	-2.47E-09	-4.26E-10	-1.55E-09	-1.57E-09	-2.36E-09	-2.31E-09	1.85E-08	1.80E-08
URI (ΔCDF)	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.20E-09	-7.20E-09	-7.20E-09	-7.20E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-08**	**-8.20E-09**	**-9.30E-09**	**-9.30E-09**	**-9.60E-09**	**-9.50E-09**	**1.10E-08**	**1.10E-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	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**
UAI (ΔCDF)	-1.39E-11	-1.94E-11	-4.39E-11	-4.52E-11	-5.71E-11	-6.14E-11	-6.14E-11	-6.15E-11
URI (ΔCDF)	-4.60E-10	-4.60E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.70E-10**	**-4.80E-10**	**-5.10E-10**	**-5.10E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**
Maximum activity	0.000287	0.000216	0.000228	0.000242	0.000245	0.000253	0.000266	0.000809	N/A	N/A	0.000379	0.000310
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**N/A**	**N/A**	**0**	**0**

Reactor Coolant System Activity	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**
Maximum activity	0.000611	0.000334	0.003350	0.000006	0.000155	0.000167	0.000174	0.000178	0.000198	0.000499	0.000356	0.000543
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
Indicator value	**0.1**	**0**	**0.3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**

Licensee Comments:

9/11: Unit offline August 23, 2011 through September 30, 2011

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**
Maximum leakage	0.104	0.097	0.095	0.094	0.099	0.093	0.113	0.096	0	0	0.039	0.038
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	**1.0**	**1.0**	**1.0**	**0.9**	**1.0**	**0.9**	**1.1**	**1.0**	**0**	**0**	**0.4**	**0.4**
Reactor Coolant System Leakage	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**
Maximum leakage	0.035	0.038	0.035	0.006	0.013	0.006	0	0.007	0.001	0.017	0.004	0.003
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	**0.4**	**0.4**	**0.4**	**0.1**	**0.1**	**0.1**	**0**	**0.1**	**0**	**0.2**	**0**	**0**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful opportunities	47.0	64.0	8.0	8.0	31.0	12.0	109.0	8.0
Total opportunities	47.0	64.0	8.0	8.0	31.0	13.0	110.0	9.0
Indicator value	**98.1%**	**98.6%**	**98.7%**	**99.0%**	**99.7%**	**99.2%**	**99.4%**	**99.0%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Participating Key personnel	168.0	166.0	171.0	168.0	164.0	156.0	164.0	163.0
Total Key personnel	168.0	166.0	171.0	168.0	164.0	156.0	164.0	163.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful siren-tests	474	476	474	476	475	476	475	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**96.3%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
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**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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.

Last Modified: January 23, 2013

North Anna 1

1Q/2013 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	2184.0	1285.9	1149.1	1681.2	1474.6	2208.0	2209.0	2159.0
Indicator value	**0.9**	**1.9**	**1.0**	**1.1**	**1.3**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2184.0	1285.9	1149.1	1681.2	1474.6	2208.0	2209.0	2159.0
Indicator value	**1.8**	**1.0**	**0**	**1.1**	**1.3**	**1.1**	**0.9**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Scrams with complications	0	1.0	0	0	0	0	0	0
Indicator value	**0.0**	**1.0**	**1.0**	**1.0**	**1.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Safety System Functional Failures	0	0	1	0	0	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**1**	**1**	**0**	**0**

Licensee Comments:

4Q/11: Dual unit trip with loss of offsite power from seismic event on 8/23/11. LER N1-2011-003-00.

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	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**
UAI (ΔCDF)	5.34E-09	1.16E-08	3.59E-08	3.51E-08	-1.03E-08	-1.54E-08	-1.54E-08	-1.54E-08
URI (ΔCDF)	-1.18E-07	-1.22E-07	-1.22E-07	-5.55E-09	-5.55E-09	-5.55E-09	-3.77E-09	-3.77E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.10E-07**	**-8.60E-08**	**3.00E-08**	**-1.60E-08**	**-2.10E-08**	**-1.90E-08**	**-1.90E-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	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**
UAI (ΔCDF)	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08
URI (ΔCDF)	-1.28E-08	-1.28E-08	-1.28E-08	-1.28E-08	-1.27E-08	-1.27E-08	-1.26E-08	-1.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**

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	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**
UAI (ΔCDF)	-3.25E-09	-2.99E-09	-3.01E-09	-2.69E-09	-2.25E-09	-2.23E-09	-2.35E-09	-2.22E-09
URI (ΔCDF)	-1.01E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-1.30E-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	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**
UAI (ΔCDF)	-4.26E-10	-1.55E-09	-1.57E-09	-2.36E-09	-2.31E-09	1.85E-08	1.80E-08	1.80E-08
URI (ΔCDF)	-7.75E-09	-7.75E-09	-7.75E-09	-7.20E-09	-7.20E-09	-7.20E-09	-7.20E-09	-7.20E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.20E-09**	**-9.30E-09**	**-9.30E-09**	**-9.60E-09**	**-9.50E-09**	**1.10E-08**	**1.10E-08**	**1.10E-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	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**
UAI (ΔCDF)	-1.94E-11	-4.39E-11	-4.52E-11	-5.71E-11	-6.14E-11	-6.14E-11	-6.15E-11	-6.15E-11
URI (ΔCDF)	-4.60E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.80E-10**	**-5.10E-10**	**-5.10E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**
Maximum activity	0.000242	0.000245	0.000253	0.000266	0.000809	N/A	N/A	0.000379	0.000310	0.000611	0.000334	0.003350
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
Indicator value	**0**	**0**	**0**	**0**	**0.1**	**N/A**	**N/A**	**0**	**0**	**0.1**	**0**	**0.3**

Reactor Coolant System Activity	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**
Maximum activity	0.000006	0.000155	0.000167	0.000174	0.000178	0.000198	0.000499	0.000356	0.000543	0.000437	0.000399	0.000340
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0**	**0**	**0**

Licensee Comments:

9/11: Unit offline August 23, 2011 through September 30, 2011

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**
Maximum leakage	0.094	0.099	0.093	0.113	0.096	0	0	0.039	0.038	0.035	0.038	0.035
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	**0.9**	**1.0**	**0.9**	**1.1**	**1.0**	**0**	**0**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**
Reactor Coolant System Leakage	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**
Maximum leakage	0.006	0.013	0.006	0	0.007	0.001	0.017	0.004	0.003	0.007	0.004	0.012
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	**0.1**	**0.1**	**0.1**	**0**	**0.1**	**0**	**0.2**	**0**	**0**	**0.1**	**0**	**0.1**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful opportunities	64.0	8.0	8.0	31.0	12.0	109.0	8.0	26.0
Total opportunities	64.0	8.0	8.0	31.0	13.0	110.0	9.0	27.0
Indicator value	**98.6%**	**98.7%**	**99.0%**	**99.7%**	**99.2%**	**99.4%**	**99.0%**	**98.5%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Participating Key personnel	166.0	171.0	168.0	164.0	156.0	164.0	163.0	167.0
Total Key personnel	166.0	171.0	168.0	164.0	156.0	164.0	163.0	167.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Successful siren-tests	476	474	476	475	476	475	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
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**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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: April 23, 2013

North Anna 1

2Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

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	1.0	0	0	0	0	0	0	0
Critical hours	1285.9	1149.1	1681.2	1474.6	2208.0	2209.0	2159.0	2184.0
Indicator value	**1.9**	**1.0**	**1.1**	**1.3**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	1.0	0	0	0	0	0
Critical hours	1285.9	1149.1	1681.2	1474.6	2208.0	2209.0	2159.0	2184.0
Indicator value	**1.0**	**0**	**1.1**	**1.3**	**1.1**	**0.9**	**0**	**0**

Licensee Comments: none

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	1.0	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

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	1	0	0	0	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**1**	**0**	**0**	**0**

Licensee Comments:

4Q/11: Dual unit trip with loss of offsite power from seismic event on 8/23/11. LER N1-2011-003-00.

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 (ΔCDF)	1.16E-08	3.59E-08	3.51E-08	-1.03E-08	-1.54E-08	-1.54E-08	-1.54E-08	-1.54E-08
URI (ΔCDF)	-1.22E-07	-1.22E-07	-5.55E-09	-5.55E-09	-5.55E-09	-3.77E-09	-3.77E-09	-3.77E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-8.60E-08**	**3.00E-08**	**-1.60E-08**	**-2.10E-08**	**-1.90E-08**	**-1.90E-08**	**-1.90E-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 (ΔCDF)	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08
URI (ΔCDF)	-1.28E-08	-1.28E-08	-1.28E-08	-1.27E-08	-1.27E-08	-1.26E-08	-1.26E-08	-1.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**

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 (ΔCDF)	-2.99E-09	-3.01E-09	-2.69E-09	-2.25E-09	-2.23E-09	-2.35E-09	-2.22E-09	-2.00E-09
URI (ΔCDF)	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-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)	-1.55E-09	-1.57E-09	-2.36E-09	-2.31E-09	1.85E-08	1.80E-08	1.80E-08	1.31E-08
URI (ΔCDF)	-7.75E-09	-7.75E-09	-7.20E-09	-7.20E-09	-7.20E-09	-7.20E-09	-7.20E-09	-7.20E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.30E-09**	**-9.30E-09**	**-9.60E-09**	**-9.50E-09**	**1.10E-08**	**1.10E-08**	**1.10E-08**	**5.90E-09**

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 (ΔCDF)	-4.39E-11	-4.52E-11	-5.71E-11	-6.14E-11	-6.14E-11	-6.15E-11	-6.15E-11	-6.15E-11
URI (ΔCDF)	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.10E-10**	**-5.10E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**

Licensee Comments: none

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	0.000266	0.000809	N/A	N/A	0.000379	0.000310	0.000611	0.000334	0.003350	0.000006	0.000155	0.000167
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
Indicator value	**0**	**0.1**	**N/A**	**N/A**	**0**	**0**	**0.1**	**0**	**0.3**	**0**	**0**	**0**

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	0.000174	0.000178	0.000198	0.000499	0.000356	0.000543	0.000437	0.000399	0.000340	0.000339	0.000359	0.000343
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments:

9/11: Unit offline August 23, 2011 through September 30, 2011

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	0.113	0.096	0	0	0.039	0.038	0.035	0.038	0.035	0.006	0.013	0.006
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	**1.1**	**1.0**	**0**	**0**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.1**	**0.1**	**0.1**

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	0.007	0.001	0.017	0.004	0.003	0.007	0.004	0.012	0.009	0.004	0.009
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	**0**	**0.1**	**0**	**0.2**	**0**	**0**	**0.1**	**0**	**0.1**	**0.1**	**0**	**0.1**

Licensee Comments: none

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	8.0	8.0	31.0	12.0	109.0	8.0	26.0	12.0
Total opportunities	8.0	8.0	31.0	13.0	110.0	9.0	27.0	12.0
Indicator value	**98.7%**	**99.0%**	**99.7%**	**99.2%**	**99.4%**	**99.0%**	**98.5%**	**98.2%**

Licensee Comments: none

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	171.0	168.0	164.0	156.0	164.0	163.0	167.0	170.0
Total Key personnel	171.0	168.0	164.0	156.0	164.0	163.0	167.0	170.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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	474	476	475	476	475	476	476	475
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

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	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**

Licensee Comments: none

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

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: August 19, 2013

North Anna 1

3Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1149.1	1681.2	1474.6	2208.0	2209.0	2159.0	2184.0	1657.5
Indicator value	**1.0**	**1.1**	**1.3**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	1149.1	1681.2	1474.6	2208.0	2209.0	2159.0	2184.0	1657.5
Indicator value	**0**	**1.1**	**1.3**	**1.1**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Safety System Functional Failures	1	0	0	0	0	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**0**	**0**	**0**	**0**

Licensee Comments:

4Q/11: Dual unit trip with loss of offsite power from seismic event on 8/23/11. LER N1-2011-003-00.

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	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**
UAI (ΔCDF)	3.59E-08	3.51E-08	-1.03E-08	-1.54E-08	-1.54E-08	-1.54E-08	-1.54E-08	-1.54E-08
URI (ΔCDF)	-1.22E-07	-5.55E-09	-5.55E-09	-5.55E-09	-3.77E-09	-3.77E-09	-3.77E-09	3.25E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.60E-08**	**3.00E-08**	**-1.60E-08**	**-2.10E-08**	**-1.90E-08**	**-1.90E-08**	**-1.90E-08**	**3.10E-07**

Licensee Comments:

3Q/13: Changed PRA Parameter(s).

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	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**
UAI (ΔCDF)	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08
URI (ΔCDF)	-1.28E-08	-1.28E-08	-1.27E-08	-1.27E-08	-1.26E-08	-1.26E-08	-1.26E-08	-1.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**

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	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**
UAI (ΔCDF)	-3.01E-09	-2.69E-09	-2.25E-09	-2.23E-09	-2.35E-09	-2.22E-09	-2.00E-09	-2.01E-09
URI (ΔCDF)	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-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	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**
UAI (ΔCDF)	-1.57E-09	-2.36E-09	-2.31E-09	1.85E-08	1.80E-08	1.80E-08	1.31E-08	1.19E-08
URI (ΔCDF)	-7.75E-09	-7.20E-09	-7.20E-09	-7.20E-09	-7.20E-09	-7.20E-09	-7.20E-09	-7.42E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.30E-09**	**-9.60E-09**	**-9.50E-09**	**1.10E-08**	**1.10E-08**	**1.10E-08**	**5.90E-09**	**4.50E-09**

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	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**
UAI (ΔCDF)	-4.52E-11	-5.71E-11	-6.14E-11	-6.14E-11	-6.15E-11	-6.15E-11	-6.15E-11	-6.15E-11
URI (ΔCDF)	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.10E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**
Maximum activity	N/A	0.000379	0.000310	0.000611	0.000334	0.003350	0.000006	0.000155	0.000167	0.000174	0.000178	0.000198
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
Indicator value	**N/A**	**0**	**0**	**0.1**	**0**	**0.3**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**
Maximum activity	0.000499	0.000356	0.000543	0.000437	0.000399	0.000340	0.000339	0.000359	0.000343	0.000379	0.000346	0.000344
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
Indicator value	**0**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12
Maximum leakage	0	0.039	0.038	0.035	0.038	0.035	0.006	0.013	0.006	0	0.007	0.001
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	**0**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.1**	**0.1**	**0.1**	**0**	**0.1**	**0**

Reactor Coolant System Leakage	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum leakage	0.017	0.004	0.003	0.007	0.004	0.012	0.009	0.004	0.009	0.053	0.023	0.023
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	**0.2**	**0**	**0**	**0.1**	**0**	**0.1**	**0.1**	**0**	**0.1**	**0.5**	**0.2**	**0.2**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful opportunities	8.0	31.0	12.0	109.0	8.0	26.0	12.0	35.0
Total opportunities	8.0	31.0	13.0	110.0	9.0	27.0	12.0	35.0
Indicator value	**99.0%**	**99.7%**	**99.2%**	**99.4%**	**99.0%**	**98.5%**	**98.2%**	**98.4%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Participating Key personnel	168.0	164.0	156.0	164.0	163.0	167.0	170.0	168.0
Total Key personnel	168.0	164.0	156.0	164.0	163.0	167.0	170.0	168.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Successful siren-tests	476	475	476	475	476	476	475	475
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.8%**	**99.8%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
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**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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: October 22, 2013

North Anna 1

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	1681.2	1474.6	2208.0	2209.0	2159.0	2184.0	1657.5	1954.7
Indicator value	**1.1**	**1.3**	**0**	**0**	**0**	**0**	**0**	**0.9**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	1681.2	1474.6	2208.0	2209.0	2159.0	2184.0	1657.5	1954.7
Indicator value	**1.1**	**1.3**	**1.1**	**0.9**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**1**	**1**	**1**	**0**	**0**	**0**	**0**	**0**

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	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	3.51E-08	-1.03E-08	-1.54E-08	-1.54E-08	-1.54E-08	-1.54E-08	-1.54E-08	-1.54E-08
URI (ΔCDF)	-5.55E-09	-5.55E-09	-5.55E-09	-3.77E-09	-3.77E-09	-3.77E-09	3.25E-07	3.25E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.00E-08**	**-1.60E-08**	**-2.10E-08**	**-1.90E-08**	**-1.90E-08**	**-1.90E-08**	**3.10E-07**	**3.10E-07**

Licensee Comments:

3Q/13: Changed PRA Parameter(s).

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/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-5.80E-08
URI (ΔCDF)	-1.28E-08	-1.27E-08	-1.27E-08	-1.26E-08	-1.26E-08	-1.26E-08	-1.26E-08	-1.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-7.10E-08**

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	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	-2.69E-09	-2.25E-09	-2.23E-09	-2.35E-09	-2.22E-09	-2.00E-09	-2.01E-09	-2.33E-09
URI (ΔCDF)	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.17E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-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	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	-2.36E-09	-2.31E-09	1.85E-08	1.80E-08	1.80E-08	1.31E-08	1.19E-08	1.01E-08
URI (ΔCDF)	-7.20E-09	-7.20E-09	-7.20E-09	-7.20E-09	-7.20E-09	-7.20E-09	-7.42E-09	-7.42E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.60E-09**	**-9.50E-09**	**1.10E-08**	**1.10E-08**	**1.10E-08**	**5.90E-09**	**4.50E-09**	**2.70E-09**

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	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	-5.71E-11	-6.14E-11	-6.14E-11	-6.15E-11	-6.15E-11	-6.15E-11	-6.15E-11	-7.50E-11
URI (ΔCDF)	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.40E-10**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**
Maximum activity	0.000611	0.000334	0.003350	0.000006	0.000155	0.000167	0.000174	0.000178	0.000198	0.000499	0.000356	0.000543
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
Indicator value	**0.1**	**0**	**0.3**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**
Reactor Coolant System Activity	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**
Maximum activity	0.000437	0.000399	0.000340	0.000339	0.000359	0.000343	0.000379	0.000346	0.000344	0.000210	0.000162	0.000169
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**
Maximum leakage	0.035	0.038	0.035	0.006	0.013	0.006	0	0.007	0.001	0.017	0.004	0.003
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	**0.4**	**0.4**	**0.4**	**0.1**	**0.1**	**0.1**	**0**	**0.1**	**0**	**0.2**	**0**	**0**
Reactor Coolant System Leakage	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**
Maximum leakage	0.007	0.004	0.012	0.009	0.004	0.009	0.053	0.023	0.023	0.034	0.047	0.056
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	**0.1**	**0**	**0.1**	**0.1**	**0**	**0.1**	**0.5**	**0.2**	**0.2**	**0.3**	**0.5**	**0.6**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful opportunities	31.0	12.0	109.0	8.0	26.0	12.0	35.0	57.0
Total opportunities	31.0	13.0	110.0	9.0	27.0	12.0	35.0	57.0
Indicator value	**99.7%**	**99.2%**	**99.4%**	**99.0%**	**98.5%**	**98.2%**	**98.4%**	**98.6%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Participating Key personnel	164.0	156.0	164.0	163.0	167.0	170.0	168.0	166.0
Total Key personnel	164.0	156.0	164.0	163.0	167.0	170.0	168.0	166.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Successful siren-tests	475	476	475	476	476	475	475	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.8%**	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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

North Anna 1

1Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	1474.6	2208.0	2209.0	2159.0	2184.0	1657.5	1954.7	2159.0
Indicator value	**1.3**	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1474.6	2208.0	2209.0	2159.0	2184.0	1657.5	1954.7	2159.0
Indicator value	**1.3**	**1.1**	**0.9**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

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	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**
UAI (ΔCDF)	-1.03E-08	-1.54E-08	-1.54E-08	-1.54E-08	-1.54E-08	-1.54E-08	-1.54E-08	-1.54E-08
URI (ΔCDF)	-5.55E-09	-5.55E-09	-3.77E-09	-3.77E-09	-3.77E-09	3.25E-07	3.25E-07	3.25E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-08**	**-2.10E-08**	**-1.90E-08**	**-1.90E-08**	**-1.90E-08**	**3.10E-07**	**3.10E-07**	**3.10E-07**

Licensee Comments:

3Q/13: Changed PRA Parameter(s).

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	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**
UAI (ΔCDF)	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-5.80E-08	-5.58E-08
URI (ΔCDF)	-1.27E-08	-1.27E-08	-1.26E-08	-1.26E-08	-1.26E-08	-1.26E-08	-1.26E-08	-1.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-7.10E-08**	**-6.80E-08**

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	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**
UAI (ΔCDF)	-2.25E-09	-2.23E-09	-2.35E-09	-2.22E-09	-2.00E-09	-2.01E-09	-2.33E-09	-2.38E-09
URI (ΔCDF)	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.17E-08	-1.17E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-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	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**
UAI (ΔCDF)	-2.31E-09	1.85E-08	1.80E-08	1.80E-08	1.31E-08	1.19E-08	1.01E-08	9.80E-09
URI (ΔCDF)	-7.20E-09	-7.20E-09	-7.20E-09	-7.20E-09	-7.20E-09	-7.42E-09	-7.42E-09	-7.42E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.50E-09**	**1.10E-08**	**1.10E-08**	**1.10E-08**	**5.90E-09**	**4.50E-09**	**2.70E-09**	**2.40E-09**

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	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**
UAI (ΔCDF)	-6.14E-11	-6.14E-11	-6.15E-11	-6.15E-11	-6.15E-11	-6.15E-11	-7.50E-11	-7.50E-11
URI (ΔCDF)	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.40E-10**	**-5.40E-10**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**
Maximum activity	0.000006	0.000155	0.000167	0.000174	0.000178	0.000198	0.000499	0.000356	0.000543	0.000437	0.000399	0.000340
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0**	**0**	**0**
Reactor Coolant System Activity	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**
Maximum activity	0.000339	0.000359	0.000343	0.000379	0.000346	0.000344	0.000210	0.000162	0.000169	0.000167	0.000190	0.000197
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**
Maximum leakage	0.006	0.013	0.006	0	0.007	0.001	0.017	0.004	0.003	0.007	0.004	0.012
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	**0.1**	**0.1**	**0.1**	**0**	**0.1**	**0**	**0.2**	**0**	**0**	**0.1**	**0**	**0.1**
Reactor Coolant System Leakage	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**
Maximum leakage	0.009	0.004	0.009	0.053	0.023	0.023	0.034	0.047	0.056	0.057	0.060	0.072
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	**0.1**	**0**	**0.1**	**0.5**	**0.2**	**0.2**	**0.3**	**0.5**	**0.6**	**0.6**	**0.6**	**0.7**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful opportunities	12.0	109.0	8.0	26.0	12.0	35.0	57.0	20.0
Total opportunities	13.0	110.0	9.0	27.0	12.0	35.0	57.0	21.0
Indicator value	**99.2%**	**99.4%**	**99.0%**	**98.5%**	**98.2%**	**98.4%**	**98.6%**	**98.2%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Participating Key personnel	156.0	164.0	163.0	167.0	170.0	168.0	166.0	170.0
Total Key personnel	156.0	164.0	163.0	167.0	170.0	168.0	166.0	170.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Successful siren-tests	476	475	476	476	475	475	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.8%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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: April 23, 2014

North Anna 1

2Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: The North Anna PRA model Revision 7 was approved on 10/22/13 with a corresponding MSPI coefficient update approved on 12/12/13. The PRA model revision was a periodic update to the model which included a data update, incorporation of recent design changes, and updating the internal flooding analysis. These revised MSPI coefficients were not entered into CDE as intended for the first quarter 2014 period. Subsequently, an error was discovered in those MSPI coefficients due to under-estimating the unavailability hours of the charging pumps. Corrected MSPI coefficients were calculated and approved on 7/9/14. Since the second quarter 2014 period is not reported until 7/21/14, first quarter 2014 is still the current reporting period. Therefore, in accordance with NEI 99-02, the CDE MSPI coefficients for the first quarter 2014 are being revised based on the 7/9/14 values in order to correctly calculate the indicators for the current reporting period. There are no color changes associated with this update to the MSPI Coefficients.

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	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	1657.5	1954.7	2159.0	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**

Licensee Comments: none

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	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	2184.0	1657.5	1954.7	2159.0	2184.0
Indicator value	**1.1**	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	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**

Licensee Comments: none

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	0	0	0
Indicator value	**1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**
UAI (ΔCDF)	-1.54E-08	-1.54E-08	-1.54E-08	-1.54E-08	-1.54E-08	-1.54E-08	-1.17E-08	-1.17E-08
URI (ΔCDF)	-5.55E-09	-3.77E-09	-3.77E-09	-3.77E-09	3.25E-07	3.25E-07	2.65E-07	2.64E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-08**	**-1.90E-08**	**-1.90E-08**	**-1.90E-08**	**3.10E-07**	**3.10E-07**	**2.50E-07**	**2.50E-07**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

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)	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-5.80E-08	-2.38E-07	-2.38E-07
URI (ΔCDF)	-1.27E-08	-1.26E-08	-1.26E-08	-1.26E-08	-1.26E-08	-1.26E-08	-1.34E-08	-1.34E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-7.10E-08**	**-2.50E-07**	**-2.50E-07**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

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 (ΔCDF)	-2.23E-09	-2.35E-09	-2.22E-09	-2.00E-09	-2.01E-09	-2.33E-09	-1.20E-09	-2.77E-09
URI (ΔCDF)	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.17E-08	-6.91E-09	-6.43E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-8.10E-09**	**-9.20E-09**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

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 (ΔCDF)	1.85E-08	1.80E-08	1.80E-08	1.31E-08	1.19E-08	1.01E-08	1.28E-08	9.96E-09
URI (ΔCDF)	-7.20E-09	-7.20E-09	-7.20E-09	-7.20E-09	-7.42E-09	-7.42E-09	-8.72E-09	-8.72E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-08**	**1.10E-08**	**1.10E-08**	**5.90E-09**	**4.50E-09**	**2.70E-09**	**4.10E-09**	**1.20E-09**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

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)	-6.14E-11	-6.15E-11	-6.15E-11	-6.15E-11	-6.15E-11	-7.50E-11	-2.30E-10	-2.30E-10
URI (ΔCDF)	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.79E-10	-4.80E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.40E-10**	**-7.10E-10**	**-7.10E-10**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

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	0.000174	0.000178	0.000198	0.000499	0.000356	0.000543	0.000437	0.000399	0.000340	0.000339	0.000359	0.000343
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.1**	**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	0.000379	0.000346	0.000344	0.000210	0.000162	0.000169	0.000167	0.000190	0.000197	0.000210	0.000207	0.000222
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	0.007	0.001	0.017	0.004	0.003	0.007	0.004	0.012	0.009	0.004	0.009
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	**0**	**0.1**	**0**	**0.2**	**0**	**0**	**0.1**	**0**	**0.1**	**0.1**	**0**	**0.1**
Reactor Coolant System Leakage	**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 leakage	0.053	0.023	0.023	0.034	0.047	0.056	0.057	0.060	0.072	0.074	0.104	0.109
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	**0.5**	**0.2**	**0.2**	**0.3**	**0.5**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**1.0**	**1.1**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Successful opportunities	109.0	8.0	26.0	12.0	35.0	57.0	20.0	7.0
Total opportunities	110.0	9.0	27.0	12.0	35.0	57.0	21.0	7.0
Indicator value	**99.4%**	**99.0%**	**98.5%**	**98.2%**	**98.4%**	**98.6%**	**98.2%**	**98.6%**

Licensee Comments: none

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	164.0	163.0	167.0	170.0	168.0	166.0	170.0	166.0
Total Key personnel	164.0	163.0	167.0	170.0	168.0	166.0	170.0	166.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

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	475	476	476	475	475	476	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

Licensee Comments: none

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

Licensee Comments: none

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

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

North Anna 1

3Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2209.0	2159.0	2184.0	1657.5	1954.7	2159.0	2184.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.8**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	2159.0	2184.0	1657.5	1954.7	2159.0	2184.0	2208.0
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
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**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

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	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**
UAI (ΔCDF)	-1.54E-08	-1.54E-08	-1.54E-08	-1.54E-08	-1.54E-08	-1.17E-08	-1.17E-08	-1.18E-08
URI (ΔCDF)	-3.77E-09	-3.77E-09	-3.77E-09	3.25E-07	3.25E-07	2.65E-07	2.64E-07	2.93E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-08**	**-1.90E-08**	**-1.90E-08**	**3.10E-07**	**3.10E-07**	**2.50E-07**	**2.50E-07**	**2.80E-07**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

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	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**
UAI (ΔCDF)	-7.00E-08	-7.00E-08	-7.00E-08	-7.00E-08	-5.80E-08	-2.38E-07	-2.38E-07	-1.10E-09
URI (ΔCDF)	-1.26E-08	-1.26E-08	-1.26E-08	-1.26E-08	-1.26E-08	-1.34E-08	-1.34E-08	-8.83E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-7.10E-08**	**-2.50E-07**	**-2.50E-07**	**-9.90E-09**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

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	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**
UAI (ΔCDF)	-2.35E-09	-2.22E-09	-2.00E-09	-2.01E-09	-2.33E-09	-1.20E-09	-2.77E-09	-2.78E-09
URI (ΔCDF)	-1.12E-08	-1.12E-08	-1.12E-08	-1.12E-08	-1.17E-08	-6.91E-09	-6.43E-09	-4.93E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-8.10E-09**	**-9.20E-09**	**-7.70E-09**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

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	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
UAI (ΔCDF)	1.80E-08	1.80E-08	1.31E-08	1.19E-08	1.01E-08	1.28E-08	9.96E-09	8.26E-09
URI (ΔCDF)	-7.20E-09	-7.20E-09	-7.20E-09	-7.42E-09	-7.42E-09	-8.72E-09	-8.72E-09	-8.73E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-08**	**1.10E-08**	**5.90E-09**	**4.50E-09**	**2.70E-09**	**4.10E-09**	**1.20E-09**	**-4.70E-10**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

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	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**
UAI (ΔCDF)	-6.15E-11	-6.15E-11	-6.15E-11	-6.15E-11	-7.50E-11	-2.30E-10	-2.30E-10	-2.30E-10
URI (ΔCDF)	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.79E-10	-4.80E-10	-1.00E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.40E-10**	**-7.10E-10**	**-7.10E-10**	**-1.20E-09**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**
Maximum activity	0.000499	0.000356	0.000543	0.000437	0.000399	0.000340	0.000339	0.000359	0.000343	0.000379	0.000346	0.000344
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
Indicator value	**0**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**
Maximum activity	0.000210	0.000162	0.000169	0.000167	0.000190	0.000197	0.000210	0.000207	0.000222	0.000231	0.000293	0.000259
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/12	11/12	12/12	1/13	2/13	3/13	4/13	5/13	6/13	7/13	8/13	9/13
Maximum leakage	0.017	0.004	0.003	0.007	0.004	0.012	0.009	0.004	0.009	0.053	0.023	0.023
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	**0.2**	**0**	**0**	**0.1**	**0**	**0.1**	**0.1**	**0**	**0.1**	**0.5**	**0.2**	**0.2**
Reactor Coolant System Leakage	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**
Maximum leakage	0.034	0.047	0.056	0.057	0.060	0.072	0.074	0.104	0.109	0.132	0.134	0.158
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	**0.3**	**0.5**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**1.0**	**1.1**	**1.3**	**1.3**	**1.6**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful opportunities	8.0	30.0	12.0	35.0	58.0	20.0	7.0	90.0
Total opportunities	9.0	31.0	12.0	35.0	58.0	21.0	7.0	90.0
Indicator value	**99.0%**	**98.5%**	**98.2%**	**98.4%**	**98.7%**	**98.3%**	**98.6%**	**98.9%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Participating Key personnel	163.0	167.0	170.0	169.0	166.0	170.0	166.0	169.0
Total Key personnel	163.0	167.0	170.0	169.0	166.0	170.0	166.0	169.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Successful siren-tests	476	476	475	475	476	476	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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: November 3, 2014

North Anna 1

4Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2159.0	2184.0	1657.5	1954.7	2159.0	2184.0	2208.0	1995.4
Indicator value	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.8**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2159.0	2184.0	1657.5	1954.7	2159.0	2184.0	2208.0	1995.4
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.8**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
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**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	-1.54E-08	-1.54E-08	-1.54E-08	-1.54E-08	-1.17E-08	-1.17E-08	-1.18E-08	-1.18E-08
URI (ΔCDF)	-3.77E-09	-3.77E-09	3.25E-07	3.25E-07	2.65E-07	2.64E-07	2.93E-07	2.93E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-08**	**-1.90E-08**	**3.10E-07**	**3.10E-07**	**2.50E-07**	**2.50E-07**	**2.80E-07**	**2.80E-07**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

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/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	-7.00E-08	-7.00E-08	-7.00E-08	-5.80E-08	-2.38E-07	-2.38E-07	-1.10E-09	-1.10E-09
URI (ΔCDF)	-1.26E-08	-1.26E-08	-1.26E-08	-1.26E-08	-1.34E-08	-1.34E-08	-8.83E-09	-9.15E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-08**	**-8.30E-08**	**-8.30E-08**	**-7.10E-08**	**-2.50E-07**	**-2.50E-07**	**-9.90E-09**	**-1.00E-08**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

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/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	-2.22E-09	-2.00E-09	-2.01E-09	-2.33E-09	-1.20E-09	-2.77E-09	-2.78E-09	-2.78E-09
URI (ΔCDF)	-1.12E-08	-1.12E-08	-1.12E-08	-1.17E-08	-6.91E-09	-6.43E-09	-4.93E-09	-4.93E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-8.10E-09**	**-9.20E-09**	**-7.70E-09**	**-7.70E-09**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

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/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	1.80E-08	1.31E-08	1.19E-08	1.01E-08	1.28E-08	9.96E-09	8.26E-09	7.29E-09
URI (ΔCDF)	-7.20E-09	-7.20E-09	-7.42E-09	-7.42E-09	-8.72E-09	-8.72E-09	-8.73E-09	-8.73E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-08**	**5.90E-09**	**4.50E-09**	**2.70E-09**	**4.10E-09**	**1.20E-09**	**-4.70E-10**	**-1.40E-09**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

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/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	-6.15E-11	-6.15E-11	-6.15E-11	-7.50E-11	-2.30E-10	-2.30E-10	-2.30E-10	-2.30E-10
URI (ΔCDF)	-4.62E-10	-4.62E-10	-4.62E-10	-4.62E-10	-4.79E-10	-4.80E-10	-1.00E-09	-1.00E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.40E-10**	**-7.10E-10**	**-7.10E-10**	**-1.20E-09**	**-1.20E-09**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**
Maximum activity	0.000437	0.000399	0.000340	0.000339	0.000359	0.000343	0.000379	0.000346	0.000344	0.000210	0.000162	0.000169
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**
Maximum activity	0.000167	0.000190	0.000197	0.000210	0.000207	0.000222	0.000231	0.000293	0.000259	0.000251	0.000263	0.000270
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**
Maximum leakage	0.007	0.004	0.012	0.009	0.004	0.009	0.053	0.023	0.023	0.034	0.047	0.056
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	**0.1**	**0**	**0.1**	**0.1**	**0**	**0.1**	**0.5**	**0.2**	**0.2**	**0.3**	**0.5**	**0.6**
Reactor Coolant System Leakage	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**
Maximum leakage	0.057	0.060	0.072	0.074	0.104	0.109	0.132	0.134	0.158	0.151	0.146	0.280
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	**0.6**	**0.6**	**0.7**	**0.7**	**1.0**	**1.1**	**1.3**	**1.3**	**1.6**	**1.5**	**1.5**	**2.8**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful opportunities	30.0	12.0	35.0	58.0	20.0	7.0	90.0	11.0
Total opportunities	31.0	12.0	35.0	58.0	21.0	7.0	90.0	11.0
Indicator value	**98.5%**	**98.2%**	**98.4%**	**98.7%**	**98.3%**	**98.6%**	**98.9%**	**99.2%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Participating Key personnel	167.0	170.0	169.0	166.0	170.0	166.0	169.0	165.0
Total Key personnel	167.0	170.0	169.0	166.0	170.0	166.0	169.0	165.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Successful siren-tests	476	475	475	476	476	476	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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: February 3, 2015

North Anna 1

1Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned scrams	0	0	1.0	0	0	0	0	1.0
Critical hours	2184.0	1657.5	1954.7	2159.0	2184.0	2208.0	1995.4	1624.9
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.8**	**0**	**0.9**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2184.0	1657.5	1954.7	2159.0	2184.0	2208.0	1995.4	1624.9
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.8**	**0.9**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
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**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	-1.54E-08	-1.54E-08	-1.54E-08	-1.17E-08	-1.17E-08	-1.18E-08	-1.18E-08	-1.18E-08
URI (ΔCDF)	-3.77E-09	3.25E-07	3.25E-07	2.65E-07	2.64E-07	2.93E-07	2.93E-07	2.27E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-08**	**3.10E-07**	**3.10E-07**	**2.50E-07**	**2.50E-07**	**2.80E-07**	**2.80E-07**	**2.20E-07**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

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	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	-7.00E-08	-7.00E-08	-5.80E-08	-2.38E-07	-2.38E-07	-1.10E-09	-1.10E-09	-1.10E-09
URI (ΔCDF)	-1.26E-08	-1.26E-08	-1.26E-08	-1.34E-08	-1.34E-08	-8.83E-09	-9.15E-09	-9.46E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-08**	**-8.30E-08**	**-7.10E-08**	**-2.50E-07**	**-2.50E-07**	**-9.90E-09**	**-1.00E-08**	**-1.10E-08**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

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	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	-2.00E-09	-2.01E-09	-2.33E-09	-1.20E-09	-2.77E-09	-2.78E-09	-2.78E-09	-2.78E-09
URI (ΔCDF)	-1.12E-08	-1.12E-08	-1.17E-08	-6.91E-09	-6.43E-09	-4.93E-09	-4.93E-09	-5.20E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.30E-08**	**-1.40E-08**	**-8.10E-09**	**-9.20E-09**	**-7.70E-09**	**-7.70E-09**	**-8.00E-09**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

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	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	1.31E-08	1.19E-08	1.01E-08	1.28E-08	9.96E-09	8.26E-09	7.29E-09	6.24E-09
URI (ΔCDF)	-7.20E-09	-7.42E-09	-7.42E-09	-8.72E-09	-8.72E-09	-8.73E-09	-8.73E-09	-8.61E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**5.90E-09**	**4.50E-09**	**2.70E-09**	**4.10E-09**	**1.20E-09**	**-4.70E-10**	**-1.40E-09**	**-2.40E-09**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

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	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	-6.15E-11	-6.15E-11	-7.50E-11	-2.30E-10	-2.30E-10	-2.30E-10	-2.30E-10	-2.30E-10
URI (ΔCDF)	-4.62E-10	-4.62E-10	-4.62E-10	-4.79E-10	-4.80E-10	-1.00E-09	-1.00E-09	-1.00E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-10**	**-5.20E-10**	**-5.40E-10**	**-7.10E-10**	**-7.10E-10**	**-1.20E-09**	**-1.20E-09**	**-1.20E-09**

Licensee Comments:

1Q/14: Changed PRA Parameter(s).

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**
Maximum activity	0.000339	0.000359	0.000343	0.000379	0.000346	0.000344	0.000210	0.000162	0.000169	0.000167	0.000190	0.000197
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	0.000210	0.000207	0.000222	0.000231	0.000293	0.000259	0.000251	0.000263	0.000270	0.000277	0.000290	0.000254
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**
Maximum leakage	0.009	0.004	0.009	0.053	0.023	0.023	0.034	0.047	0.056	0.057	0.060	0.072
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	**0.1**	**0**	**0.1**	**0.5**	**0.2**	**0.2**	**0.3**	**0.5**	**0.6**	**0.6**	**0.6**	**0.7**
Reactor Coolant System Leakage	**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 leakage	0.074	0.104	0.109	0.132	0.134	0.158	0.151	0.146	0.280	0.162	0.159	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
Indicator value	**0.7**	**1.0**	**1.1**	**1.3**	**1.3**	**1.6**	**1.5**	**1.5**	**2.8**	**1.6**	**1.6**	**1.5**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful opportunities	12.0	35.0	58.0	20.0	7.0	90.0	11.0	5.0
Total opportunities	12.0	35.0	58.0	21.0	7.0	90.0	11.0	5.0
Indicator value	**98.2%**	**98.4%**	**98.7%**	**98.3%**	**98.6%**	**98.9%**	**99.2%**	**99.6%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Participating Key personnel	170.0	169.0	166.0	170.0	166.0	169.0	165.0	161.0
Total Key personnel	170.0	169.0	166.0	170.0	166.0	169.0	165.0	161.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Successful siren-tests	475	475	476	476	476	476	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
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**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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: April 23, 2015

North Anna 1

2Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: PRA updated beginning April 2015.

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned scrams	0	1.0	0	0	0	0	1.0	1.0
Critical hours	1657.5	1954.7	2159.0	2184.0	2208.0	1995.4	1624.9	2127.7
Indicator value	**0**	**0.9**	**0.9**	**0.9**	**0.8**	**0**	**0.9**	**1.8**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	1657.5	1954.7	2159.0	2184.0	2208.0	1995.4	1624.9	2127.7
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.8**	**0.9**	**0.9**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
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**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	-1.54E-08	-1.54E-08	-1.17E-08	-1.17E-08	-1.18E-08	-1.18E-08	-1.18E-08	-1.24E-08
URI (ΔCDF)	3.25E-07	3.25E-07	2.65E-07	2.64E-07	2.93E-07	2.93E-07	2.27E-07	2.71E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.10E-07**	**3.10E-07**	**2.50E-07**	**2.50E-07**	**2.80E-07**	**2.80E-07**	**2.20E-07**	**2.60E-07**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

3Q/13: Changed PRA Parameter(s).

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/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	-7.00E-08	-5.80E-08	-2.38E-07	-2.38E-07	-1.10E-09	-1.10E-09	-1.10E-09	-1.21E-09
URI (ΔCDF)	-1.26E-08	-1.26E-08	-1.34E-08	-1.34E-08	-8.83E-09	-9.15E-09	-9.46E-09	-1.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-08**	**-7.10E-08**	**-2.50E-07**	**-2.50E-07**	**-9.90E-09**	**-1.00E-08**	**-1.10E-08**	**-1.40E-08**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

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/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	-2.01E-09	-2.33E-09	-1.20E-09	-2.77E-09	-2.78E-09	-2.78E-09	-2.78E-09	-2.62E-09
URI (ΔCDF)	-1.12E-08	-1.17E-08	-6.91E-09	-6.43E-09	-4.93E-09	-4.93E-09	-5.20E-09	-6.35E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.40E-08**	**-8.10E-09**	**-9.20E-09**	**-7.70E-09**	**-7.70E-09**	**-8.00E-09**	**-9.00E-09**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

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/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	1.19E-08	1.01E-08	1.28E-08	9.96E-09	8.26E-09	7.29E-09	6.24E-09	4.06E-09
URI (ΔCDF)	-7.42E-09	-7.42E-09	-8.72E-09	-8.72E-09	-8.73E-09	-8.73E-09	-8.61E-09	-9.23E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.50E-09**	**2.70E-09**	**4.10E-09**	**1.20E-09**	**-4.70E-10**	**-1.40E-09**	**-2.40E-09**	**-5.20E-09**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

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/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	-6.15E-11	-7.50E-11	-2.30E-10	-2.30E-10	-2.30E-10	-2.30E-10	-2.30E-10	-3.22E-10
URI (ΔCDF)	-4.62E-10	-4.62E-10	-4.79E-10	-4.80E-10	-1.00E-09	-1.00E-09	-1.00E-09	-2.34E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-10**	**-5.40E-10**	**-7.10E-10**	**-7.10E-10**	**-1.20E-09**	**-1.20E-09**	**-1.20E-09**	**-2.70E-09**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

Thresholds: White > 50.0 Yellow > 100.0

Notes

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	0.000379	0.000346	0.000344	0.000210	0.000162	0.000169	0.000167	0.000190	0.000197	0.000210	0.000207	0.000222
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**
Maximum activity	0.000231	0.000293	0.000259	0.000251	0.000263	0.000270	0.000277	0.000290	0.000254	0.000194	0.000152	0.000151
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**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 leakage	0.053	0.023	0.023	0.034	0.047	0.056	0.057	0.060	0.072	0.074	0.104	0.109
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	**0.5**	**0.2**	**0.2**	**0.3**	**0.5**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**1.0**	**1.1**
Reactor Coolant System Leakage	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**
Maximum leakage	0.132	0.134	0.158	0.151	0.146	0.280	0.162	0.159	0.150	0.166	0.141	0.144
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	**1.3**	**1.3**	**1.6**	**1.5**	**1.5**	**2.8**	**1.6**	**1.6**	**1.5**	**1.7**	**1.4**	**1.4**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful opportunities	35.0	58.0	20.0	7.0	90.0	11.0	5.0	20.0
Total opportunities	35.0	58.0	21.0	7.0	90.0	11.0	5.0	22.0
Indicator value	**98.4%**	**98.7%**	**98.3%**	**98.6%**	**98.9%**	**99.2%**	**99.6%**	**98.8%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Participating Key personnel	169.0	166.0	170.0	166.0	169.0	165.0	161.0	160.0
Total Key personnel	169.0	166.0	170.0	166.0	169.0	165.0	161.0	160.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Successful siren-tests	475	476	476	476	476	476	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
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**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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 24, 2015

North Anna 1

3Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned scrams	1.0	0	0	0	0	1.0	1.0	0
Critical hours	1954.7	2159.0	2184.0	2208.0	1995.4	1624.9	2127.7	2208.0
Indicator value	**0.9**	**0.9**	**0.9**	**0.8**	**0**	**0.9**	**1.8**	**1.8**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	1954.7	2159.0	2184.0	2208.0	1995.4	1624.9	2127.7	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0.8**	**0.9**	**0.9**	**0.9**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
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**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	-1.54E-08	-1.17E-08	-1.17E-08	-1.18E-08	-1.18E-08	-1.18E-08	-1.24E-08	-1.43E-08
URI (ΔCDF)	3.25E-07	2.65E-07	2.64E-07	2.93E-07	2.93E-07	2.27E-07	2.71E-07	3.14E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.10E-07**	**2.50E-07**	**2.50E-07**	**2.80E-07**	**2.80E-07**	**2.20E-07**	**2.60E-07**	**3.00E-07**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

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	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	-5.80E-08	-2.38E-07	-2.38E-07	-1.10E-09	-1.10E-09	-1.10E-09	-1.21E-09	-1.41E-09
URI (ΔCDF)	-1.26E-08	-1.34E-08	-1.34E-08	-8.83E-09	-9.15E-09	-9.46E-09	-1.26E-08	-1.51E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.10E-08**	**-2.50E-07**	**-2.50E-07**	**-9.90E-09**	**-1.00E-08**	**-1.10E-08**	**-1.40E-08**	**-1.60E-08**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

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	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	-2.33E-09	-1.20E-09	-2.77E-09	-2.78E-09	-2.78E-09	-2.78E-09	-2.62E-09	-3.04E-09
URI (ΔCDF)	-1.17E-08	-6.91E-09	-6.43E-09	-4.93E-09	-4.93E-09	-5.20E-09	-6.35E-09	-7.36E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-8.10E-09**	**-9.20E-09**	**-7.70E-09**	**-7.70E-09**	**-8.00E-09**	**-9.00E-09**	**-1.00E-08**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

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	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	1.01E-08	1.28E-08	9.96E-09	8.26E-09	7.29E-09	6.24E-09	4.06E-09	-3.70E-09
URI (ΔCDF)	-7.42E-09	-8.72E-09	-8.72E-09	-8.73E-09	-8.73E-09	-8.61E-09	-9.23E-09	-1.07E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.70E-09**	**4.10E-09**	**1.20E-09**	**-4.70E-10**	**-1.40E-09**	**-2.40E-09**	**-5.20E-09**	**-1.40E-08**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

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	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	-7.50E-11	-2.30E-10	-2.30E-10	-2.30E-10	-2.30E-10	-2.30E-10	-3.22E-10	-3.74E-10
URI (ΔCDF)	-4.62E-10	-4.79E-10	-4.80E-10	-1.00E-09	-1.00E-09	-1.00E-09	-2.34E-09	-2.71E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.40E-10**	**-7.10E-10**	**-7.10E-10**	**-1.20E-09**	**-1.20E-09**	**-1.20E-09**	**-2.70E-09**	**-3.10E-09**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**
Maximum activity	0.000210	0.000162	0.000169	0.000167	0.000190	0.000197	0.000210	0.000207	0.000222	0.000231	0.000293	0.000259
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**
Maximum activity	0.000251	0.000263	0.000270	0.000277	0.000290	0.000254	0.000194	0.000152	0.000151	0.000167	0.000162	0.000183
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**
Maximum leakage	0.034	0.047	0.056	0.057	0.060	0.072	0.074	0.104	0.109	0.132	0.134	0.158
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	**0.3**	**0.5**	**0.6**	**0.6**	**0.6**	**0.7**	**0.7**	**1.0**	**1.1**	**1.3**	**1.3**	**1.6**
Reactor Coolant System Leakage	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**
Maximum leakage	0.151	0.146	0.280	0.162	0.159	0.150	0.166	0.141	0.144	0.176	0.179	0.193
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	**1.5**	**1.5**	**2.8**	**1.6**	**1.6**	**1.5**	**1.7**	**1.4**	**1.4**	**1.8**	**1.8**	**1.9**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful opportunities	58.0	20.0	7.0	90.0	11.0	5.0	20.0	92.0
Total opportunities	58.0	21.0	7.0	90.0	11.0	5.0	22.0	92.0
Indicator value	**98.7%**	**98.3%**	**98.6%**	**98.9%**	**99.2%**	**99.6%**	**98.8%**	**99.0%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Participating Key personnel	166.0	170.0	166.0	169.0	165.0	161.0	160.0	160.0
Total Key personnel	166.0	170.0	166.0	169.0	165.0	161.0	160.0	160.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Successful siren-tests	476	476	476	476	476	476	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
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**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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: December 15, 2015

North Anna 1

4Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned scrams	0	0	0	0	1.0	1.0	0	0
Critical hours	2159.0	2184.0	2208.0	1995.4	1624.9	2127.7	2208.0	2209.0
Indicator value	**0.9**	**0.9**	**0.8**	**0**	**0.9**	**1.8**	**1.8**	**1.7**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	1995.4	1624.9	2127.7	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0.8**	**0.9**	**0.9**	**0.9**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
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**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	-1.17E-08	-1.17E-08	-1.18E-08	-1.18E-08	-1.18E-08	-1.24E-08	-1.43E-08	-1.43E-08
URI (ΔCDF)	2.65E-07	2.64E-07	2.93E-07	2.93E-07	2.27E-07	2.71E-07	3.14E-07	3.14E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.50E-07**	**2.50E-07**	**2.80E-07**	**2.80E-07**	**2.20E-07**	**2.60E-07**	**3.00E-07**	**3.00E-07**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

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/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	-2.38E-07	-2.38E-07	-1.10E-09	-1.10E-09	-1.10E-09	-1.21E-09	-1.41E-09	-1.41E-09
URI (ΔCDF)	-1.34E-08	-1.34E-08	-8.83E-09	-9.15E-09	-9.46E-09	-1.26E-08	-1.51E-08	-1.54E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.50E-07**	**-2.50E-07**	**-9.90E-09**	**-1.00E-08**	**-1.10E-08**	**-1.40E-08**	**-1.60E-08**	**-1.70E-08**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

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/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	-1.20E-09	-2.77E-09	-2.78E-09	-2.78E-09	-2.78E-09	-2.62E-09	-3.04E-09	-3.04E-09
URI (ΔCDF)	-6.91E-09	-6.43E-09	-4.93E-09	-4.93E-09	-5.20E-09	-6.35E-09	-7.36E-09	-7.36E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.10E-09**	**-9.20E-09**	**-7.70E-09**	**-7.70E-09**	**-8.00E-09**	**-9.00E-09**	**-1.00E-08**	**-1.00E-08**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

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/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	1.28E-08	9.96E-09	8.26E-09	7.29E-09	6.24E-09	4.06E-09	-3.70E-09	-3.70E-09
URI (ΔCDF)	-8.72E-09	-8.72E-09	-8.73E-09	-8.73E-09	-8.61E-09	-9.23E-09	-1.07E-08	-1.07E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.10E-09**	**1.20E-09**	**-4.70E-10**	**-1.40E-09**	**-2.40E-09**	**-5.20E-09**	**-1.40E-08**	**-1.40E-08**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

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/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	-2.30E-10	-2.30E-10	-2.30E-10	-2.30E-10	-2.30E-10	-3.22E-10	-3.74E-10	-3.74E-10
URI (ΔCDF)	-4.79E-10	-4.80E-10	-1.00E-09	-1.00E-09	-1.00E-09	-2.34E-09	-2.71E-09	-2.71E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.10E-10**	**-7.10E-10**	**-1.20E-09**	**-1.20E-09**	**-1.20E-09**	**-2.70E-09**	**-3.10E-09**	**-3.10E-09**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

1Q/14: Changed PRA Parameter(s).

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**
Maximum activity	0.000167	0.000190	0.000197	0.000210	0.000207	0.000222	0.000231	0.000293	0.000259	0.000251	0.000263	0.000270
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**
Maximum activity	0.000277	0.000290	0.000254	0.000194	0.000152	0.000151	0.000167	0.000162	0.000183	0.000191	0.000178	0.000197
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14
Maximum leakage	0.057	0.060	0.072	0.074	0.104	0.109	0.132	0.134	0.158	0.151	0.146	0.280
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	**0.6**	**0.6**	**0.7**	**0.7**	**1.0**	**1.1**	**1.3**	**1.3**	**1.6**	**1.5**	**1.5**	**2.8**
Reactor Coolant System Leakage	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**
Maximum leakage	0.162	0.159	0.150	0.166	0.141	0.144	0.176	0.179	0.193	0.189	0.201	0.255
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	**1.6**	**1.6**	**1.5**	**1.7**	**1.4**	**1.4**	**1.8**	**1.8**	**1.9**	**1.9**	**2.0**	**2.6**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful opportunities	20.0	7.0	90.0	11.0	5.0	20.0	92.0	16.0
Total opportunities	21.0	7.0	90.0	11.0	5.0	22.0	92.0	18.0
Indicator value	**98.3%**	**98.6%**	**98.9%**	**99.2%**	**99.6%**	**98.8%**	**99.0%**	**98.1%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Participating Key personnel	170.0	166.0	169.0	165.0	161.0	160.0	160.0	162.0
Total Key personnel	170.0	166.0	169.0	165.0	161.0	160.0	160.0	162.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Successful siren-tests	476	476	476	476	476	476	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
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**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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: March 1, 2016

North Anna 1

1Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned scrams	0	0	0	1.0	1.0	0	0	0
Critical hours	2184.0	2208.0	1995.4	1624.9	2127.7	2208.0	2209.0	2183.0
Indicator value	**0.9**	**0.8**	**0**	**0.9**	**1.8**	**1.8**	**1.7**	**0.8**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	2184.0	2208.0	1995.4	1624.9	2127.7	2208.0	2209.0	2183.0
Indicator value	**0**	**0**	**0.8**	**0.9**	**0.9**	**0.9**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
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**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

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	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	-1.17E-08	-1.18E-08	-1.18E-08	-1.18E-08	-1.24E-08	-1.43E-08	-1.43E-08	-1.43E-08
URI (ΔCDF)	2.64E-07	2.93E-07	2.93E-07	2.27E-07	2.71E-07	3.14E-07	3.14E-07	3.12E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.50E-07**	**2.80E-07**	**2.80E-07**	**2.20E-07**	**2.60E-07**	**3.00E-07**	**3.00E-07**	**3.00E-07**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

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	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	-2.38E-07	-1.10E-09	-1.10E-09	-1.10E-09	-1.21E-09	-1.41E-09	-1.41E-09	-1.41E-09
URI (ΔCDF)	-1.34E-08	-8.83E-09	-9.15E-09	-9.46E-09	-1.26E-08	-1.51E-08	-1.54E-08	-1.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.50E-07**	**-9.90E-09**	**-1.00E-08**	**-1.10E-08**	**-1.40E-08**	**-1.60E-08**	**-1.70E-08**	**-1.70E-08**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

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	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	-2.77E-09	-2.78E-09	-2.78E-09	-2.78E-09	-2.62E-09	-3.04E-09	-3.04E-09	-3.04E-09
URI (ΔCDF)	-6.43E-09	-4.93E-09	-4.93E-09	-5.20E-09	-6.35E-09	-7.36E-09	-7.36E-09	-7.36E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.20E-09**	**-7.70E-09**	**-7.70E-09**	**-8.00E-09**	**-9.00E-09**	**-1.00E-08**	**-1.00E-08**	**-1.00E-08**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

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	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	9.96E-09	8.26E-09	7.29E-09	6.24E-09	4.06E-09	-3.70E-09	-3.70E-09	-3.70E-09
URI (ΔCDF)	-8.72E-09	-8.73E-09	-8.73E-09	-8.61E-09	-9.23E-09	-1.07E-08	-1.07E-08	-1.07E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.20E-09**	**-4.70E-10**	**-1.40E-09**	**-2.40E-09**	**-5.20E-09**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

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	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	-2.30E-10	-2.30E-10	-2.30E-10	-2.30E-10	-3.22E-10	-3.74E-10	-3.74E-10	-3.74E-10
URI (ΔCDF)	-4.80E-10	-1.00E-09	-1.00E-09	-1.00E-09	-2.34E-09	-2.71E-09	-2.71E-09	-2.71E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.10E-10**	**-1.20E-09**	**-1.20E-09**	**-1.20E-09**	**-2.70E-09**	**-3.10E-09**	**-3.10E-09**	**-3.10E-09**

Licensee Comments:

2Q/15: Changed PRA Parameter(s).

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

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	0.000210	0.000207	0.000222	0.000231	0.000293	0.000259	0.000251	0.000263	0.000270	0.000277	0.000290	0.000254
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**
Maximum activity	0.000194	0.000152	0.000151	0.000167	0.000162	0.000183	0.000191	0.000178	0.000197	0.000214	0.000221	0.000227
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**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 leakage	0.074	0.104	0.109	0.132	0.134	0.158	0.151	0.146	0.280	0.162	0.159	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
Indicator value	**0.7**	**1.0**	**1.1**	**1.3**	**1.3**	**1.6**	**1.5**	**1.5**	**2.8**	**1.6**	**1.6**	**1.5**
Reactor Coolant System Leakage	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**
Maximum leakage	0.166	0.141	0.144	0.176	0.179	0.193	0.189	0.201	0.255	0.242	0.258	0.279
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	**1.7**	**1.4**	**1.4**	**1.8**	**1.8**	**1.9**	**1.9**	**2.0**	**2.6**	**2.4**	**2.6**	**2.8**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful opportunities	7.0	90.0	11.0	5.0	20.0	92.0	16.0	28.0
Total opportunities	7.0	90.0	11.0	5.0	22.0	92.0	18.0	28.0
Indicator value	**98.6%**	**98.9%**	**99.2%**	**99.6%**	**98.8%**	**99.0%**	**98.1%**	**98.5%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Participating Key personnel	166.0	169.0	165.0	161.0	160.0	160.0	162.0	164.0
Total Key personnel	166.0	169.0	165.0	161.0	160.0	160.0	162.0	164.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
Successful siren-tests	476	476	476	476	476	476	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**99.9%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
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**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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: April 23, 2016

North Anna 1

2Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: PRA updated for Q2 2016.

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned scrams	0	0	1.0	1.0	0	0	0	0
Critical hours	2208.0	1995.4	1624.9	2127.7	2208.0	2209.0	2183.0	2184.0
Indicator value	**0.8**	**0**	**0.9**	**1.8**	**1.8**	**1.7**	**0.8**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Unplanned power changes	0	1.0	0	0	0	0	0	0
Critical hours	2208.0	1995.4	1624.9	2127.7	2208.0	2209.0	2183.0	2184.0
Indicator value	**0**	**0.8**	**0.9**	**0.9**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
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**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

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/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	-1.18E-08	-1.18E-08	-1.18E-08	-1.24E-08	-1.43E-08	-1.43E-08	-1.43E-08	-2.52E-08
URI (ΔCDF)	2.93E-07	2.93E-07	2.27E-07	2.71E-07	3.14E-07	3.14E-07	3.12E-07	2.98E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.80E-07**	**2.80E-07**	**2.20E-07**	**2.60E-07**	**3.00E-07**	**3.00E-07**	**3.00E-07**	**2.70E-07**

Licensee Comments:

2Q/16: Risk Cap Invoked. Changed PRA Parameter(s).

2Q/15: Changed PRA Parameter(s).

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/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	-1.10E-09	-1.10E-09	-1.10E-09	-1.21E-09	-1.41E-09	-1.41E-09	-1.41E-09	-1.48E-09
URI (ΔCDF)	-8.83E-09	-9.15E-09	-9.46E-09	-1.26E-08	-1.51E-08	-1.54E-08	-1.59E-08	-1.31E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.90E-09**	**-1.00E-08**	**-1.10E-08**	**-1.40E-08**	**-1.60E-08**	**-1.70E-08**	**-1.70E-08**	**-1.50E-08**

Licensee Comments:

2Q/16: Changed PRA Parameter(s).

2Q/15: Changed PRA Parameter(s).

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/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	-2.78E-09	-2.78E-09	-2.78E-09	-2.62E-09	-3.04E-09	-3.04E-09	-3.04E-09	-3.69E-09
URI (ΔCDF)	-4.93E-09	-4.93E-09	-5.20E-09	-6.35E-09	-7.36E-09	-7.36E-09	-7.36E-09	-9.01E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.70E-09**	**-7.70E-09**	**-8.00E-09**	**-9.00E-09**	**-1.00E-08**	**-1.00E-08**	**-1.00E-08**	**-1.30E-08**

Licensee Comments:

2Q/16: Changed PRA Parameter(s).

2Q/15: Changed PRA Parameter(s).

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/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	8.26E-09	7.29E-09	6.24E-09	4.06E-09	-3.70E-09	-3.70E-09	-3.70E-09	-6.11E-09
URI (ΔCDF)	-8.73E-09	-8.73E-09	-8.61E-09	-9.23E-09	-1.07E-08	-1.07E-08	-1.07E-08	-1.88E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.70E-10**	**-1.40E-09**	**-2.40E-09**	**-5.20E-09**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-2.50E-08**

Licensee Comments:

2Q/16: Changed PRA Parameter(s).

2Q/15: Changed PRA Parameter(s).

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/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	-2.30E-10	-2.30E-10	-2.30E-10	-3.22E-10	-3.74E-10	-3.74E-10	-3.74E-10	-7.07E-10
URI (ΔCDF)	-1.00E-09	-1.00E-09	-1.00E-09	-2.34E-09	-2.71E-09	-2.71E-09	-2.71E-09	-6.09E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-09**	**-1.20E-09**	**-1.20E-09**	**-2.70E-09**	**-3.10E-09**	**-3.10E-09**	**-3.10E-09**	**-1.30E-09**

Licensee Comments:

2Q/16: Changed PRA Parameter(s).

2Q/15: Changed PRA Parameter(s).

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**
Maximum activity	0.000231	0.000293	0.000259	0.000251	0.000263	0.000270	0.000277	0.000290	0.000254	0.000194	0.000152	0.000151
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	0.000167	0.000162	0.000183	0.000191	0.000178	0.000197	0.000214	0.000221	0.000227	0.000229	0.000249	0.000248
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**
Maximum leakage	0.132	0.134	0.158	0.151	0.146	0.280	0.162	0.159	0.150	0.166	0.141	0.144
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	**1.3**	**1.3**	**1.6**	**1.5**	**1.5**	**2.8**	**1.6**	**1.6**	**1.5**	**1.7**	**1.4**	**1.4**
Reactor Coolant System Leakage	**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	0.176	0.179	0.193	0.189	0.201	0.255	0.242	0.258	0.279	0.292	0.308	0.315
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	**1.8**	**1.8**	**1.9**	**1.9**	**2.0**	**2.6**	**2.4**	**2.6**	**2.8**	**2.9**	**3.1**	**3.2**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful opportunities	90.0	11.0	5.0	20.0	92.0	16.0	28.0	13.0
Total opportunities	90.0	11.0	5.0	22.0	92.0	18.0	28.0	13.0
Indicator value	**98.9%**	**99.2%**	**99.6%**	**98.8%**	**99.0%**	**98.1%**	**98.5%**	**98.6%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Participating Key personnel	169.0	165.0	161.0	160.0	160.0	162.0	164.0	161.0
Total Key personnel	169.0	165.0	161.0	160.0	160.0	162.0	164.0	161.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful siren-tests	476	476	476	476	476	476	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
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**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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 25, 2016

North Anna 1

3Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: PRA updated for Q3

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned scrams	0	1.0	1.0	0	0	0	0	0
Critical hours	1995.4	1624.9	2127.7	2208.0	2209.0	2183.0	2184.0	1727.6
Indicator value	**0**	**0.9**	**1.8**	**1.8**	**1.7**	**0.8**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	1995.4	1624.9	2127.7	2208.0	2209.0	2183.0	2184.0	1727.6
Indicator value	**0.8**	**0.9**	**0.9**	**0.9**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
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**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

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	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	-1.18E-08	-1.18E-08	-1.24E-08	-1.43E-08	-1.43E-08	-1.43E-08	-2.52E-08	-8.62E-09
URI (ΔCDF)	2.93E-07	2.27E-07	2.71E-07	3.14E-07	3.14E-07	3.12E-07	2.98E-07	1.96E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.80E-07**	**2.20E-07**	**2.60E-07**	**3.00E-07**	**3.00E-07**	**3.00E-07**	**2.70E-07**	**1.90E-07**

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

2Q/16: Risk Cap Invoked. Changed PRA Parameter(s).

2Q/15: Changed PRA Parameter(s).

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	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	-1.10E-09	-1.10E-09	-1.21E-09	-1.41E-09	-1.41E-09	-1.41E-09	-1.48E-09	-1.48E-09
URI (ΔCDF)	-9.15E-09	-9.46E-09	-1.26E-08	-1.51E-08	-1.54E-08	-1.59E-08	-1.31E-08	-1.34E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-08**	**-1.10E-08**	**-1.40E-08**	**-1.60E-08**	**-1.70E-08**	**-1.70E-08**	**-1.50E-08**	**-1.50E-08**

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

2Q/16: Changed PRA Parameter(s).

2Q/15: Changed PRA Parameter(s).

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	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	-2.78E-09	-2.78E-09	-2.62E-09	-3.04E-09	-3.04E-09	-3.04E-09	-3.69E-09	-3.93E-09
URI (ΔCDF)	-4.93E-09	-5.20E-09	-6.35E-09	-7.36E-09	-7.36E-09	-7.36E-09	-9.01E-09	-9.67E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.70E-09**	**-8.00E-09**	**-9.00E-09**	**-1.00E-08**	**-1.00E-08**	**-1.00E-08**	**-1.30E-08**	**-1.40E-08**

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

2Q/16: Changed PRA Parameter(s).

2Q/15: Changed PRA Parameter(s).

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	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	7.29E-09	6.24E-09	4.06E-09	-3.70E-09	-3.70E-09	-3.70E-09	-6.11E-09	-6.12E-09
URI (ΔCDF)	-8.73E-09	-8.61E-09	-9.23E-09	-1.07E-08	-1.07E-08	-1.07E-08	-1.88E-08	-1.86E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-09**	**-2.40E-09**	**-5.20E-09**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-2.50E-08**	**-2.50E-08**

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

2Q/16: Changed PRA Parameter(s).

2Q/15: Changed PRA Parameter(s).

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	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	-2.30E-10	-2.30E-10	-3.22E-10	-3.74E-10	-3.74E-10	-3.74E-10	-7.07E-10	-7.11E-10
URI (ΔCDF)	-1.00E-09	-1.00E-09	-2.34E-09	-2.71E-09	-2.71E-09	-2.71E-09	-6.09E-10	-3.79E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-09**	**-1.20E-09**	**-2.70E-09**	**-3.10E-09**	**-3.10E-09**	**-3.10E-09**	**-1.30E-09**	**-1.10E-09**

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

2Q/16: Changed PRA Parameter(s).

2Q/15: Changed PRA Parameter(s).

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**
Maximum activity	0.000251	0.000263	0.000270	0.000277	0.000290	0.000254	0.000194	0.000152	0.000151	0.000167	0.000162	0.000183
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**	**4/16**	**5/16**	**6/16**	**7/16**	**8/16**	**9/16**
Maximum activity	0.000191	0.000178	0.000197	0.000214	0.000221	0.000227	0.000229	0.000249	0.000248	0.000476	0.000376	0.000261
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**
Maximum leakage	0.151	0.146	0.280	0.162	0.159	0.150	0.166	0.141	0.144	0.176	0.179	0.193
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	**1.5**	**1.5**	**2.8**	**1.6**	**1.6**	**1.5**	**1.7**	**1.4**	**1.4**	**1.8**	**1.8**	**1.9**
Reactor Coolant System Leakage	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**	**4/16**	**5/16**	**6/16**	**7/16**	**8/16**	**9/16**
Maximum leakage	0.189	0.201	0.255	0.242	0.258	0.279	0.292	0.308	0.315	0.326	0.369	0.368
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	**1.9**	**2.0**	**2.6**	**2.4**	**2.6**	**2.8**	**2.9**	**3.1**	**3.2**	**3.3**	**3.7**	**3.7**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful opportunities	11.0	5.0	20.0	92.0	16.0	28.0	13.0	57.0
Total opportunities	11.0	5.0	22.0	92.0	18.0	28.0	13.0	57.0
Indicator value	**99.2%**	**99.6%**	**98.8%**	**99.0%**	**98.1%**	**98.5%**	**98.6%**	**98.4%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Participating Key personnel	165.0	161.0	160.0	160.0	162.0	164.0	161.0	160.0
Total Key personnel	165.0	161.0	160.0	160.0	162.0	164.0	161.0	160.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Successful siren-tests	476	476	476	476	476	476	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
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**

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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: October 23, 2016

North Anna 1

4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned scrams	1.0	1.0	0	0	0	0	0	0
Critical hours	1624.9	2127.7	2208.0	2209.0	2183.0	2184.0	1727.6	1847.5
Indicator value	**0.9**	**1.8**	**1.8**	**1.7**	**0.8**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1624.9	2127.7	2208.0	2209.0	2183.0	2184.0	1727.6	1847.5
Indicator value	**0.9**	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
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**

Licensee Comments: none

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	-1.18E-08	-1.24E-08	-1.43E-08	-1.43E-08	-1.43E-08	-2.52E-08	-8.62E-09	-8.62E-09
URI (ΔCDF)	2.27E-07	2.71E-07	3.14E-07	3.14E-07	3.12E-07	2.98E-07	1.96E-07	1.96E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.20E-07**	**2.60E-07**	**3.00E-07**	**3.00E-07**	**3.00E-07**	**2.70E-07**	**1.90E-07**	**1.90E-07**

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

2Q/16: Risk Cap Invoked. Changed PRA Parameter(s).

2Q/15: Changed PRA Parameter(s).

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/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	-1.10E-09	-1.21E-09	-1.41E-09	-1.41E-09	-1.41E-09	-1.48E-09	-1.48E-09	-1.48E-09
URI (ΔCDF)	-9.46E-09	-1.26E-08	-1.51E-08	-1.54E-08	-1.59E-08	-1.31E-08	-1.34E-08	-1.37E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-08**	**-1.40E-08**	**-1.60E-08**	**-1.70E-08**	**-1.70E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

2Q/16: Changed PRA Parameter(s).

2Q/15: Changed PRA Parameter(s).

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/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	-2.78E-09	-2.62E-09	-3.04E-09	-3.04E-09	-3.04E-09	-3.69E-09	-3.93E-09	-3.93E-09
URI (ΔCDF)	-5.20E-09	-6.35E-09	-7.36E-09	-7.36E-09	-7.36E-09	-9.01E-09	-9.67E-09	-9.24E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.00E-09**	**-9.00E-09**	**-1.00E-08**	**-1.00E-08**	**-1.00E-08**	**-1.30E-08**	**-1.40E-08**	**-1.30E-08**

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

2Q/16: Changed PRA Parameter(s).

2Q/15: Changed PRA Parameter(s).

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/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	6.24E-09	4.06E-09	-3.70E-09	-3.70E-09	-3.70E-09	-6.11E-09	-6.12E-09	-7.86E-09
URI (ΔCDF)	-8.61E-09	-9.23E-09	-1.07E-08	-1.07E-08	-1.07E-08	-1.88E-08	-1.86E-08	-1.86E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.40E-09**	**-5.20E-09**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-2.50E-08**	**-2.50E-08**	**-2.60E-08**

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

2Q/16: Changed PRA Parameter(s).

2Q/15: Changed PRA Parameter(s).

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/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	-2.30E-10	-3.22E-10	-3.74E-10	-3.74E-10	-3.74E-10	-7.07E-10	-7.11E-10	-7.11E-10
URI (ΔCDF)	-1.00E-09	-2.34E-09	-2.71E-09	-2.71E-09	-2.71E-09	-6.09E-10	-3.79E-10	-3.79E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-09**	**-2.70E-09**	**-3.10E-09**	**-3.10E-09**	**-3.10E-09**	**-1.30E-09**	**-1.10E-09**	**-1.10E-09**

Licensee Comments:

3Q/16: Changed PRA Parameter(s).

2Q/16: Changed PRA Parameter(s).

2Q/15: Changed PRA Parameter(s).

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**
Maximum activity	0.000277	0.000290	0.000254	0.000194	0.000152	0.000151	0.000167	0.000162	0.000183	0.000191	0.000178	0.000197
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
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	0.000214	0.000221	0.000227	0.000229	0.000249	0.000248	0.000476	0.000376	0.000261	0.000119	0.000132	0.000139
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**
Maximum leakage	0.162	0.159	0.150	0.166	0.141	0.144	0.176	0.179	0.193	0.189	0.201	0.255
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	**1.6**	**1.6**	**1.5**	**1.7**	**1.4**	**1.4**	**1.8**	**1.8**	**1.9**	**1.9**	**2.0**	**2.6**
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	0.242	0.258	0.279	0.292	0.308	0.315	0.326	0.369	0.368	0.216	0.263	0.293
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	**2.4**	**2.6**	**2.8**	**2.9**	**3.1**	**3.2**	**3.3**	**3.7**	**3.7**	**2.2**	**2.6**	**2.9**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful opportunities	5.0	20.0	92.0	16.0	28.0	13.0	57.0	49.0
Total opportunities	5.0	22.0	92.0	18.0	28.0	13.0	57.0	50.0
Indicator value	**99.6%**	**98.8%**	**99.0%**	**98.1%**	**98.5%**	**98.6%**	**98.4%**	**98.2%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Participating Key personnel	161.0	160.0	160.0	162.0	164.0	161.0	160.0	164.0
Total Key personnel	161.0	160.0	160.0	162.0	164.0	161.0	160.0	164.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Successful siren-tests	476	476	476	476	476	476	476	475
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.9%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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 24, 2017

United States Nuclear Regulatory Commission
Protecting People and the Environment

North Anna 1 – Quarterly Performance Indicators

1Q/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)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- 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	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned scrams	1.0	0	0	0	0	0	0	0
Critical hours	2127.7	2208.0	2209.0	2183.0	2184.0	1727.6	1847.5	2159.0
Indicator value	**1.8**	**1.8**	**1.7**	**0.8**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2127.7	2208.0	2209.0	2183.0	2184.0	1727.6	1847.5	2159.0
Indicator value	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/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**

TOP

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

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	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-1.24E-08	-1.43E-08	-1.43E-08	-1.43E-08	-2.52E-08	-8.62E-09	-8.62E-09	-8.62E-09
URI (ΔCDF)	2.71E-07	3.14E-07	3.14E-07	3.12E-07	2.98E-07	1.96E-07	1.96E-07	1.96E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.60E-07**	**3.00E-07**	**3.00E-07**	**3.00E-07**	**2.70E-07**	**1.90E-07**	**1.90E-07**	**1.90E-07**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Risk Cap Invoked. Changed PRA Parameter(s).
2Q/15: Changed PRA Parameter(s).

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	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-1.21E-09	-1.41E-09	-1.41E-09	-1.41E-09	-1.48E-09	-1.48E-09	-1.48E-09	-1.48E-09
URI (ΔCDF)	-1.26E-08	-1.51E-08	-1.54E-08	-1.59E-08	-1.31E-08	-1.34E-08	-1.37E-08	-1.37E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.60E-08**	**-1.70E-08**	**-1.70E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Changed PRA Parameter(s).
2Q/15: Changed PRA Parameter(s).

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	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-2.62E-09	-3.04E-09	-3.04E-09	-3.04E-09	-3.69E-09	-3.93E-09	-3.93E-09	-3.93E-09
URI (ΔCDF)	-6.35E-09	-7.36E-09	-7.36E-09	-7.36E-09	-9.01E-09	-9.67E-09	-9.24E-09	-9.24E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.00E-09**	**-1.00E-08**	**-1.00E-08**	**-1.00E-08**	**-1.30E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Changed PRA Parameter(s).
2Q/15: Changed PRA Parameter(s).

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	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	4.06E-09	-3.70E-09	-3.70E-09	-3.70E-09	-6.11E-09	-6.12E-09	-7.86E-09	-7.86E-09
URI (ΔCDF)	-9.23E-09	-1.07E-08	-1.07E-08	-1.07E-08	-1.88E-08	-1.86E-08	-1.86E-08	-1.86E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-09**	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-2.50E-08**	**-2.50E-08**	**-2.60E-08**	**-2.60E-08**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Changed PRA Parameter(s).
2Q/15: Changed PRA Parameter(s).

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	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-3.22E-10	-3.74E-10	-3.74E-10	-3.74E-10	-7.07E-10	-7.11E-10	-7.11E-10	-7.11E-10
URI (ΔCDF)	-2.34E-09	-2.71E-09	-2.71E-09	-2.71E-09	-6.09E-10	-3.79E-10	-3.79E-10	-3.79E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.70E-09**	**-3.10E-09**	**-3.10E-09**	**-3.10E-09**	**-1.30E-09**	**-1.10E-09**	**-1.10E-09**	**-1.10E-09**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Changed PRA Parameter(s).
2Q/15: Changed PRA Parameter(s).

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum activity	0.000194	0.000152	0.000151	0.000167	0.000162	0.000183	0.000191	0.000178	0.000197	0.000214	0.000221	0.000227
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum activity	0.000229	0.000249	0.000248	0.000476	0.000376	0.000261	0.000119	0.000132	0.000139	0.000146	0.000158	0.000168
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum leakage	0.166	0.141	0.144	0.176	0.179	0.193	0.189	0.201	0.255	0.242	0.258	0.279
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	**1.7**	**1.4**	**1.4**	**1.8**	**1.8**	**1.9**	**1.9**	**2.0**	**2.6**	**2.4**	**2.6**	**2.8**

Reactor Coolant System Leakage	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum leakage	0.292	0.308	0.315	0.326	0.369	0.368	0.216	0.263	0.293	0.324	0.346	0.410
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	**2.9**	**3.1**	**3.2**	**3.3**	**3.7**	**3.7**	**2.2**	**2.6**	**2.9**	**3.2**	**3.5**	**4.1**

TOP

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful opportunities	20.0	92.0	16.0	28.0	13.0	57.0	49.0	26.0
Total opportunities	22.0	92.0	18.0	28.0	13.0	57.0	50.0	29.0
Indicator value	**98.8%**	**99.0%**	**98.1%**	**98.5%**	**98.6%**	**98.4%**	**98.2%**	**97.4%**

TOP

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Participating Key personnel	160.0	160.0	162.0	164.0	161.0	160.0	164.0	168.0
Total Key personnel	160.0	160.0	162.0	164.0	161.0	160.0	164.0	168.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

TOP

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful siren-tests	476	476	476	476	476	476	475	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.9%**	**99.9%**

TOP

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/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: May 5, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017

United States Nuclear Regulatory Commission
Protecting People and the Environment

North Anna 1 – Quarterly Performance Indicators

2Q/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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- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

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	0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	1727.6	1847.5	2159.0	2184.0
Indicator value	**1.8**	**1.7**	**0.8**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

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	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	1727.6	1847.5	2159.0	2184.0
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

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
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

TOP

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	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	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

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)	-1.43E-08	-1.43E-08	-1.43E-08	-2.52E-08	-8.62E-09	-8.62E-09	-8.62E-09	-8.62E-09
URI (ΔCDF)	3.14E-07	3.14E-07	3.12E-07	2.98E-07	1.96E-07	1.96E-07	1.96E-07	1.98E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.00E-07**	**3.00E-07**	**3.00E-07**	**2.70E-07**	**1.90E-07**	**1.90E-07**	**1.90E-07**	**1.90E-07**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Risk Cap Invoked. Changed PRA Parameter(s).

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/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-1.41E-09	-1.41E-09	-1.41E-09	-1.48E-09	-1.48E-09	-1.48E-09	-1.48E-09	-1.48E-09
URI (ΔCDF)	-1.51E-08	-1.54E-08	-1.59E-08	-1.31E-08	-1.34E-08	-1.37E-08	-1.37E-08	-1.37E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-08**	**-1.70E-08**	**-1.70E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Changed PRA Parameter(s).

Notes

Mitigating Systems Performance Index, Heat Removal System	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
UAI (ΔCDF)	-3.04E-09	-3.04E-09	-3.04E-09	-3.69E-09	-3.93E-09	-3.93E-09	-3.93E-09	-3.93E-09
URI (ΔCDF)	-7.36E-09	-7.36E-09	-7.36E-09	-9.01E-09	-9.67E-09	-9.24E-09	-9.24E-09	-9.24E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-08**	**-1.00E-08**	**-1.00E-08**	**-1.30E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Changed PRA Parameter(s).

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)	-3.70E-09	-3.70E-09	-3.70E-09	-6.11E-09	-6.12E-09	-7.86E-09	-7.86E-09	-7.86E-09
URI (ΔCDF)	-1.07E-08	-1.07E-08	-1.07E-08	-1.88E-08	-1.86E-08	-1.86E-08	-1.86E-08	-1.86E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.40E-08**	**-1.40E-08**	**-2.50E-08**	**-2.50E-08**	**-2.60E-08**	**-2.60E-08**	**-2.60E-08**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Changed PRA Parameter(s).

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)	-3.74E-10	-3.74E-10	-3.74E-10	-7.07E-10	-7.11E-10	-7.11E-10	-7.11E-10	-7.11E-10
URI (ΔCDF)	-2.71E-09	-2.71E-09	-2.71E-09	-6.09E-10	-3.79E-10	-3.79E-10	-3.79E-10	-3.78E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-09**	**-3.10E-09**	**-3.10E-09**	**-1.30E-09**	**-1.10E-09**	**-1.10E-09**	**-1.10E-09**	**-1.10E-09**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Changed PRA Parameter(s).

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	0.000167	0.000162	0.000183	0.000191	0.000178	0.000197	0.000214	0.000221	0.000227	0.000229	0.000249	0.000248
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	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 activity	0.000476	0.000376	0.000261	0.000119	0.000132	0.000139	0.000146	0.000158	0.000168	0.000178	0.000188	0.000187
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	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	0.176	0.179	0.193	0.189	0.201	0.255	0.242	0.258	0.279	0.292	0.308	0.315
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	**1.8**	**1.8**	**1.9**	**1.9**	**2.0**	**2.6**	**2.4**	**2.6**	**2.8**	**2.9**	**3.1**	**3.2**

Reactor Coolant System Leakage	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	0.326	0.369	0.368	0.216	0.263	0.293	0.324	0.346	0.410	0.470	0.743	0.634
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	**3.3**	**3.7**	**3.7**	**2.2**	**2.6**	**2.9**	**3.2**	**3.5**	**4.1**	**4.7**	**7.4**	**6.3**

TOP

Licensee Comments: none

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	92.0	16.0	28.0	13.0	57.0	49.0	26.0	55.0
Total opportunities	92.0	18.0	28.0	13.0	57.0	50.0	29.0	55.0
Indicator value	**99.0%**	**98.1%**	**98.5%**	**98.6%**	**98.4%**	**98.2%**	**97.4%**	**98.2%**

TOP

Licensee Comments: none

Notes

ERO Drill Participation	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Participating Key personnel	160.0	162.0	164.0	161.0	160.0	164.0	168.0	164.0
Total Key personnel	160.0	162.0	164.0	161.0	160.0	164.0	168.0	164.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

TOP

Licensee Comments: none

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	476	476	476	476	476	475	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.9%**	**99.9%**	**99.9%**

TOP

Licensee Comments: none

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

TOP

Licensee Comments: none

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**

TOP

Licensee Comments: none

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Current data as of: July 26, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017

United States Nuclear Regulatory Commission
Protecting People and the Environment

North Anna 1 – Quarterly Performance Indicators

3Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
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- Safety System Functional Failures (MS05)
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- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2183.0	2184.0	1727.6	1847.5	2159.0	2184.0	2208.0
Indicator value	**1.7**	**0.8**	**0**	**0**	**0**	**0**	**0**	**0**

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Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	2183.0	2184.0	1727.6	1847.5	2159.0	2184.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 1.0

Notes

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

TOP

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

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	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-1.43E-08	-1.43E-08	-2.52E-08	-8.62E-09	-8.62E-09	-8.62E-09	-8.62E-09	-8.62E-09
URI (ΔCDF)	3.14E-07	3.12E-07	2.98E-07	1.96E-07	1.96E-07	1.96E-07	1.98E-07	1.98E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.00E-07**	**3.00E-07**	**2.70E-07**	**1.90E-07**	**1.90E-07**	**1.90E-07**	**1.90E-07**	**1.90E-07**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Risk Cap Invoked. Changed PRA Parameter(s).

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-1.41E-09	-1.41E-09	-1.48E-09	-1.48E-09	-1.48E-09	-1.48E-09	-1.48E-09	-1.48E-09
URI (ΔCDF)	-1.54E-08	-1.59E-08	-1.31E-08	-1.34E-08	-1.37E-08	-1.37E-08	-1.37E-08	-1.37E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-08**	**-1.70E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Changed PRA Parameter(s).

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

Notes

Mitigating Systems Performance Index, Heat Removal System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-3.04E-09	-3.04E-09	-3.69E-09	-3.93E-09	-3.93E-09	-3.93E-09	-3.93E-09	-3.93E-09
URI (ΔCDF)	-7.36E-09	-7.36E-09	-9.01E-09	-9.67E-09	-9.24E-09	-9.24E-09	-9.24E-09	-9.24E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-08**	**-1.00E-08**	**-1.30E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Changed PRA Parameter(s).

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	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-3.70E-09	-3.70E-09	-6.11E-09	-6.12E-09	-7.86E-09	-7.86E-09	-7.86E-09	-7.86E-09
URI (ΔCDF)	-1.07E-08	-1.07E-08	-1.88E-08	-1.86E-08	-1.86E-08	-1.86E-08	-1.86E-08	-1.86E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.40E-08**	**-2.50E-08**	**-2.50E-08**	**-2.60E-08**	**-2.60E-08**	**-2.60E-08**	**-2.60E-08**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Changed PRA Parameter(s).

Notes

Mitigating Systems Performance Index, Cooling Water Systems	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-3.74E-10	-3.74E-10	-7.07E-10	-7.11E-10	-7.11E-10	-7.11E-10	-7.11E-10	-7.11E-10
URI (ΔCDF)	-2.71E-09	-2.71E-09	-6.09E-10	-3.79E-10	-3.79E-10	-3.79E-10	-3.78E-10	-3.78E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-09**	**-3.10E-09**	**-1.30E-09**	**-1.10E-09**	**-1.10E-09**	**-1.10E-09**	**-1.10E-09**	**-1.10E-09**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Changed PRA Parameter(s).

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum activity	0.000191	0.000178	0.000197	0.000214	0.000221	0.000227	0.000229	0.000249	0.000248	0.000476	0.000376	0.000261
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum activity	0.000119	0.000132	0.000139	0.000146	0.000158	0.000168	0.000178	0.000188	0.000187	0.000198	0.000207	0.000211
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum leakage	0.189	0.201	0.255	0.242	0.258	0.279	0.292	0.308	0.315	0.326	0.369	0.368
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	**1.9**	**2.0**	**2.6**	**2.4**	**2.6**	**2.8**	**2.9**	**3.1**	**3.2**	**3.3**	**3.7**	**3.7**

Reactor Coolant System Leakage	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum leakage	0.216	0.263	0.293	0.324	0.346	0.410	0.470	0.743	0.634	0.674	0.449	0.534
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	**2.2**	**2.6**	**2.9**	**3.2**	**3.5**	**4.1**	**4.7**	**7.4**	**6.3**	**6.7**	**4.5**	**5.3**

TOP

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful opportunities	16.0	28.0	13.0	57.0	49.0	26.0	55.0	32.0
Total opportunities	18.0	28.0	13.0	57.0	50.0	29.0	55.0	32.0
Indicator value	**98.1%**	**98.5%**	**98.6%**	**98.4%**	**98.2%**	**97.4%**	**98.2%**	**97.9%**

TOP

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Participating Key personnel	162.0	164.0	161.0	160.0	164.0	168.0	164.0	166.0
Total Key personnel	162.0	164.0	161.0	160.0	164.0	168.0	164.0	166.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

TOP

Licensee Comments: none

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Successful siren-tests	476	476	476	476	475	476	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**

TOP

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/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: October 31, 2017

Page Last Reviewed/Updated Monday, November 06, 2017

United States Nuclear Regulatory Commission
Protecting People and the Environment

North Anna 1 – 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)
- High Pressure Injection Systems (MS07)
- Heat Removal Systems (MS08)
- Residual Heat Removal Systems (MS09)
- Cooling Water Systems (MS10)
- Reactor Coolant System Activity (BI01)
- Reactor Coolant System Leakage (BI02)
- 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	0	0	0	0
Critical hours	2183.0	2184.0	1727.6	1847.5	2159.0	2184.0	2208.0	2209.0
Indicator value	**0.8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

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	1727.6	1847.5	2159.0	2184.0	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

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**

TOP

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

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	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
UAI (ΔCDF)	-1.43E-08	-2.52E-08	-8.62E-09	-8.62E-09	-8.62E-09	-8.62E-09	-8.62E-09	-8.62E-09
URI (ΔCDF)	3.12E-07	2.98E-07	1.96E-07	1.96E-07	1.96E-07	1.98E-07	1.98E-07	1.98E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.00E-07**	**2.70E-07**	**1.90E-07**	**1.90E-07**	**1.90E-07**	**1.90E-07**	**1.90E-07**	**1.90E-07**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Risk Cap Invoked. Changed PRA Parameter(s).

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)	-1.41E-09	-1.48E-09	-1.48E-09	-1.48E-09	-1.48E-09	-1.48E-09	-1.48E-09	-1.48E-09
URI (ΔCDF)	-1.59E-08	-1.31E-08	-1.34E-08	-1.37E-08	-1.37E-08	-1.37E-08	-1.37E-08	-1.37E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**	**-1.50E-08**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Changed PRA Parameter(s).

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)	-3.04E-09	-3.69E-09	-3.93E-09	-3.93E-09	-3.93E-09	-3.93E-09	-3.93E-09	-3.93E-09
URI (ΔCDF)	-7.36E-09	-9.01E-09	-9.67E-09	-9.24E-09	-9.24E-09	-9.24E-09	-9.24E-09	-9.24E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-08**	**-1.30E-08**	**-1.40E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**	**-1.30E-08**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Changed PRA Parameter(s).

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)	-3.70E-09	-6.11E-09	-6.12E-09	-7.86E-09	-7.86E-09	-7.86E-09	-7.86E-09	-8.30E-09
URI (ΔCDF)	-1.07E-08	-1.88E-08	-1.86E-08	-1.86E-08	-1.86E-08	-1.86E-08	-1.86E-08	-1.88E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-2.50E-08**	**-2.50E-08**	**-2.60E-08**	**-2.60E-08**	**-2.60E-08**	**-2.60E-08**	**-2.70E-08**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Changed PRA Parameter(s).

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)	-3.74E-10	-7.07E-10	-7.11E-10	-7.11E-10	-7.11E-10	-7.11E-10	-7.11E-10	-7.11E-10
URI (ΔCDF)	-2.71E-09	-6.09E-10	-3.79E-10	-3.79E-10	-3.79E-10	-3.78E-10	-3.78E-10	-3.79E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-09**	**-1.30E-09**	**-1.10E-09**	**-1.10E-09**	**-1.10E-09**	**-1.10E-09**	**-1.10E-09**	**-1.10E-09**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Changed PRA Parameter(s).

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	0.000214	0.000221	0.000227	0.000229	0.000249	0.000248	0.000476	0.000376	0.000261	0.000119	0.000132	0.000139
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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	0.000146	0.000158	0.000168	0.000178	0.000188	0.000187	0.000198	0.000207	0.000211	0.000210	0.000232	0.000229
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
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

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	0.242	0.258	0.279	0.292	0.308	0.315	0.326	0.369	0.368	0.216	0.263	0.293
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	**2.4**	**2.6**	**2.8**	**2.9**	**3.1**	**3.2**	**3.3**	**3.7**	**3.7**	**2.2**	**2.6**	**2.9**

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	0.324	0.346	0.410	0.470	0.743	0.634	0.674	0.449	0.534	0.535	0.438	0.454
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	**3.2**	**3.5**	**4.1**	**4.7**	**7.4**	**6.3**	**6.7**	**4.5**	**5.3**	**5.4**	**4.4**	**4.5**

TOP

Licensee Comments: none

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	28.0	13.0	57.0	49.0	26.0	55.0	32.0	18.0
Total opportunities	28.0	13.0	57.0	50.0	29.0	55.0	32.0	19.0
Indicator value	**98.5%**	**98.6%**	**98.4%**	**98.2%**	**97.4%**	**98.2%**	**97.9%**	**98.2%**

TOP

Licensee Comments: none

Notes

ERO Drill Participation	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Participating Key personnel	164.0	161.0	160.0	164.0	168.0	164.0	166.0	164.0
Total Key personnel	164.0	161.0	160.0	164.0	168.0	164.0	166.0	164.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

TOP

Licensee Comments: none

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	476	476	476	475	476	476	476	476
Total sirens-tests	476	476	476	476	476	476	476	476
Indicator value	**100.0%**	**100.0%**	**100.0%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**

TOP

Licensee Comments: none

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

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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