North Anna 2

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	1.0	0
Critical hours	2160.0	2183.0	1754.6	1982.4	2184.0
Indicator value	**0.9**	**0.8**	**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	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	0	1.0	0
Critical hours	2160.0	2183.0	1754.6	1982.4	2184.0
Indicator value	**0**	**0**	**0**	**0.9**	**0.9**

Licensee Comments:

4Q/99: 11/1999 data revised to include 12 hrs. when the unit was removed from service, but remained critical.

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	29.10	46.40	11.83	9.31	10.76
Unplanned unavailable hours	0	7.33	0	0.42	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	2184.00
Train 2					
Planned unavailable hours	10.65	36.57	15.15	10.22	9.72
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	2184.00
Indicator value				**1.2%**	**1.2%**

Licensee Comments:

1Q/00: Per NEI 99-02, Rev 0, current data excludes unavailability hours resulting from planned, TS approved, on-line, Allowed Outage Time EDG overhauls. This revision had no affect on the Green indicator color assignment.

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	0	0	0	0	2.76
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	2029.16	2184.00
Train 2					
Planned unavailable hours	1.05	1.12	0	1.12	0.50
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	2029.16	2184.00
Indicator value				**0%**	**0%**

Licensee Comments:

1Q/00: Current and historical data changed to reflect North Anna's unique design. Per NEI 99-02, Rev 0, Appendix D, post-accident recirculation cooling provided by the Low Head Safety Injection System has been extracted and included in the Residual Heat Removal System. Removal of LHSI unavailability hours had no affect on the Green indicator color assignment.

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	10.20	2.07	0	1.30	1.38
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	2023.83	2184.00
Train 2					
Planned unavailable hours	1.50	2.62	2.77	1.46	1.73
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	2023.83	2184.00
Train 3					
Planned unavailable hours	2.60	3.40	3.30	0	9.95
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	2023.83	2184.00
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	2.22	0	0	1.00	7.50
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	2184.00
Train 2					
Planned unavailable hours	0.22	5.30	2.32	0	5.10
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	2160.00	2183.00	2208.00	2209.00	2184.00
Train 3					
Planned unavailable hours	0	0	0	8.42	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	2184.00
Train 4					
Planned unavailable hours	0	0	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	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value				**0.6%**	**0.4%**

Licensee Comments:

1Q/00: Current and historical data has been changed to reflect North Anna's unique design. Per NEI 99-02, Rev 0, Trains 1 & 2 reflect recirculation mode Low Head Safety Injection Systems while Trains 3 & 4 reflect shutdown cooling provided by the Residual Heat Removal System. The revision made to data since 1Q/97 had no affect 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.

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	**0**	**2**	**3**	**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	0.001190	0.003830	0.001880	0.001900	0.001930	0.001510	0.000940	0.002430	0.000830	0.000776	0.000896	0.000920
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**	**0.4**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments:

12/99: 12/1999 data revised to exclude non steady-state activity (U-2 Reactor Scram) defined in NEI 99-02, Rev 0. Data revision had no effect on the green indicator color.

9/99: 9/1999 data revised to exclude non steady-state activity (U-2 Shutdown for Refueling) defined in NEI 99-02, Rev 0. Data revision had no effect on the green indicator color assignment.

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	0.730	0.981	4.110	0.881	2.780	0.969	0.696	0.604	0.590	0.644	0.549	0.646
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	**7.3**	**9.8**	**41.1**	**8.8**	**27.8**	**9.7**	**7.0**	**6.0**	**5.9**	**6.4**	**5.5**	**6.5**

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

ERO Drill Participation

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 included in 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 2

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	1.0	0	2.0
Critical hours	2183.0	1754.6	1982.4	2184.0	2150.1
Indicator value	**0.8**	**0**	**0.9**	**0.9**	**2.6**

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	0	1.0	0	0
Critical hours	2183.0	1754.6	1982.4	2184.0	2150.1
Indicator value	**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	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	46.40	11.83	9.31	10.76	10.35
Unplanned unavailable hours	7.33	0	0.42	0	0.08
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2183.00
Train 2					
Planned unavailable hours	36.57	15.15	10.22	9.72	6.42
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	2184.00	2183.00
Indicator value			**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/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0	0	0	2.76	11.87
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	2183.00	2208.00	2029.16	2184.00	2183.00
Train 2					
Planned unavailable hours	1.12	0	1.12	0.50	0.83
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	2183.00	2208.00	2029.16	2184.00	2183.00
Indicator value			**0%**	**0%**	**0%**

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	2.07	0	1.30	1.38	1.18
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	2023.83	2184.00	2183.00
Train 2					
Planned unavailable hours	2.62	2.77	1.46	1.73	2.42
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	2023.83	2184.00	2183.00
Train 3					
Planned unavailable hours	3.40	3.30	0	9.95	4.73
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	2023.83	2184.00	2183.00
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	0	0	1.00	7.50	3.59
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	2184.00	2183.00
Train 2					
Planned unavailable hours	5.30	2.32	0	5.10	60.54
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	2184.00	2183.00
Train 3					
Planned unavailable hours	0	0	8.42	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	2183.00	2208.00	2209.00	2184.00	2183.00
Train 4					
Planned unavailable hours	0	0	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	2183.00	2208.00	2209.00	2184.00	2183.00
Indicator value			**0.6%**	**0.4%**	**0.4%**

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	**2**	**3**	**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	0.001900	0.001930	0.001510	0.000940	0.002430	0.000830	0.000776	0.000896	0.000920	0.001480	0.001340	0.001330
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**	**0.2**	**0.1**	**0.2**	**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	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00
Maximum leakage	0.881	2.780	0.969	0.696	0.604	0.590	0.644	0.549	0.646	0.205	0.192	0.115
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	**8.8**	**27.8**	**9.7**	**7.0**	**6.0**	**5.9**	**6.4**	**5.5**	**6.5**	**2.0**	**1.9**	**1.2**

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

ERO Drill Participation

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 included in 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

PI Summary | Inspection Findings Summary | Reactor Oversight Process

Last Modified: April 1, 2002

North Anna 2

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	1.0	0	2.0	0
Critical hours	1754.6	1982.4	2184.0	2150.1	2208.0
Indicator value	**0**	**0.9**	**0.9**	**2.6**	**2.5**

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	0	1.0	0	0	0
Critical hours	1754.6	1982.4	2184.0	2150.1	2208.0
Indicator value	**0**	**0.9**	**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	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	11.83	9.31	10.76	10.35	9.79
Unplanned unavailable hours	0	0.42	0	0.08	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2183.00	2208.00
Train 2					
Planned unavailable hours	15.15	10.22	9.72	6.42	18.10
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	2184.00	2183.00	2208.00
Indicator value		**1.2%**	**1.2%**	**1.0%**	**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)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	0	0	2.76	11.87	27.90
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	2029.16	2184.00	2183.00	2208.00
Train 2					
Planned unavailable hours	0	1.12	0.50	0.83	3.13
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	2029.16	2184.00	2183.00	2208.00
Indicator value		**0%**	**0%**	**0%**	**0.1%**

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	0	1.30	1.38	1.18	0.97
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	2023.83	2184.00	2183.00	2208.00
Train 2					
Planned unavailable hours	2.77	1.46	1.73	2.42	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	2208.00	2023.83	2184.00	2183.00	2208.00
Train 3					
Planned unavailable hours	3.30	0	9.95	4.73	3.12
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	2023.83	2184.00	2183.00	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	0	1.00	7.50	3.59	16.48
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	2184.00	2183.00	2208.00
Train 2					
Planned unavailable hours	2.32	0	5.10	60.54	15.99
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	2184.00	2183.00	2208.00
Train 3					
Planned unavailable hours	0	8.42	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	2208.00	2209.00	2184.00	2183.00	2208.00
Train 4					
Planned unavailable hours	0	0	0	0	6.13
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	2184.00	2183.00	2208.00
Indicator value		**0.6%**	**0.4%**	**0.4%**	**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	**3**	**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	0.000940	0.002430	0.000830	0.000776	0.000896	0.000920	0.001480	0.001340	0.001330	0.001280	0.001390	0.001660
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**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**

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	0.696	0.604	0.590	0.644	0.549	0.646	0.205	0.192	0.115	0.155	0.130	0.155
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	**7.0**	**6.0**	**5.9**	**6.4**	**5.5**	**6.5**	**2.0**	**1.9**	**1.2**	**1.6**	**1.3**	**1.6**

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 included in 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 2

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	1.0	0	2.0	0	0
Critical hours	1982.4	2184.0	2150.1	2208.0	2209.0
Indicator value	**0.9**	**0.9**	**2.6**	**2.5**	**1.6**

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	1.0	0	0	0	0
Critical hours	1982.4	2184.0	2150.1	2208.0	2209.0
Indicator value	**0.9**	**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
Train 1					
Planned unavailable hours	9.31	10.76	10.35	9.79	34.51
Unplanned unavailable hours	0.42	0	0.08	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00
Train 2					
Planned unavailable hours	10.22	9.72	6.42	18.10	34.97
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	2184.00	2183.00	2208.00	2209.00
Indicator value	**1.2%**	**1.2%**	**1.0%**	**1.0%**	**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)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	0	2.76	11.87	27.90	1.00
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	2029.16	2184.00	2183.00	2208.00	2209.00
Train 2					
Planned unavailable hours	1.12	0.50	0.83	3.13	0.93
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	2029.16	2184.00	2183.00	2208.00	2209.00
Indicator value	**0%**	**0%**	**0%**	**0.1%**	**0.1%**

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	1.30	1.38	1.18	0.97	19.50
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	2023.83	2184.00	2183.00	2208.00	2209.00
Train 2					
Planned unavailable hours	1.46	1.73	2.42	1.17	14.00
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	2023.83	2184.00	2183.00	2208.00	2209.00
Train 3					
Planned unavailable hours	0	9.95	4.73	3.12	7.37
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	2023.83	2184.00	2183.00	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	1.00	7.50	3.59	16.48	11.82
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	2209.00	2184.00	2183.00	2208.00	2209.00
Train 2					
Planned unavailable hours	0	5.10	60.54	15.99	9.23
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	2184.00	2183.00	2208.00	2209.00
Train 3					
Planned unavailable hours	8.42	0	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	2184.00	2183.00	2208.00	2209.00
Train 4					
Planned unavailable hours	0	0	0	6.13	6.20
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	2184.00	2183.00	2208.00	2209.00
Indicator value	**0.6%**	**0.4%**	**0.4%**	**0.3%**	**0.2%**

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	0.000776	0.000896	0.000920	0.001480	0.001340	0.001330	0.001280	0.001390	0.001660	0.001850	0.002240	0.002790
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**	**0.2**	**0.2**	**0.2**	**0.3**

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	0.644	0.549	0.646	0.205	0.192	0.115	0.155	0.130	0.155	0.193	0.247	0.298
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	**6.4**	**5.5**	**6.5**	**2.0**	**1.9**	**1.2**	**1.6**	**1.3**	**1.6**	**1.9**	**2.5**	**3.0**

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

ERO Drill Participation

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 included in 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 2

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	1.0	0	2.0	0	0	0
Critical hours	1982.4	2184.0	2150.1	2208.0	2209.0	1626.4
Indicator value	**0.9**	**0.9**	**2.6**	**2.5**	**1.6**	**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	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	1.0	0	0	0	0	1.0
Critical hours	1982.4	2184.0	2150.1	2208.0	2209.0	1626.4
Indicator value	**0.9**	**0.9**	**0.9**	**0.8**	**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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	9.31	10.76	10.35	9.79	34.51	44.53
Unplanned unavailable hours	0.42	0	0.08	0	0	1.19
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	1915.75
Train 2						
Planned unavailable hours	10.22	9.72	6.42	18.10	34.97	10.40
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	2184.00	2183.00	2208.00	2209.00	1915.75
Indicator value	**1.2%**	**1.2%**	**1.0%**	**1.0%**	**1.0%**	**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)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	0	2.76	11.87	27.90	1.00	1.13
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	2029.16	2184.00	2183.00	2208.00	2209.00	1671.50
Train 2						
Planned unavailable hours	1.12	0.50	0.83	3.13	0.93	1.47
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	2029.16	2184.00	2183.00	2208.00	2209.00	1671.50
Indicator value	**0%**	**0%**	**0%**	**0.1%**	**0.1%**	**0.1%**

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	1.30	1.38	1.18	0.97	19.50	1.32
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	2023.83	2184.00	2183.00	2208.00	2209.00	1667.17
Train 2						
Planned unavailable hours	1.46	1.73	2.42	1.17	14.00	1.23
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	2023.83	2184.00	2183.00	2208.00	2209.00	1667.70
Train 3						
Planned unavailable hours	0	9.95	4.73	3.12	7.37	3.53
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	2023.83	2184.00	2183.00	2208.00	2209.00	1667.17
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	1.00	7.50	3.59	16.48	11.82	29.31
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	2184.00	2183.00	2208.00	2209.00	1671.50
Train 2						
Planned unavailable hours	0	5.10	60.54	15.99	9.23	26.81
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	2184.00	2183.00	2208.00	2209.00	1671.50
Train 3						
Planned unavailable hours	8.42	0	0	0	0	5.95
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	2184.00	2183.00	2208.00	2209.00	1917.30
Train 4						
Planned unavailable hours	0	0	0	6.13	6.20	9.05
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	2184.00	2183.00	2208.00	2209.00	1917.30
Indicator value	**0.6%**	**0.4%**	**0.4%**	**0.3%**	**0.2%**	**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	0.000940	0.002430	0.000830	0.000776	0.000896	0.000920	0.001480	0.001340	0.001330	0.001280	0.001390	0.001660
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**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.001850	0.002240	0.002790	0.031600	0.038000	0.031000
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.3**	**3.2**	**3.8**	**3.1**

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	0.696	0.604	0.590	0.644	0.549	0.646	0.205	0.192	0.115	0.155	0.130	0.155
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	**7.0**	**6.0**	**5.9**	**6.4**	**5.5**	**6.5**	**2.0**	**1.9**	**1.2**	**1.6**	**1.3**	**1.6**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	0.193	0.247	0.298	10.002	0.322	0.330
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.9**	**2.5**	**3.0**	**100.0**	**3.2**	**3.3**

Licensee Comments:

3/01: Unit Shutdown required due to identified reactor coolant leakage from loop stop valve packing exceeding T.S. limits.

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

ERO Drill Participation

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.

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 2

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	1.0	0	2.0	0	0	0	0
Critical hours	1982.4	2184.0	2150.1	2208.0	2209.0	1626.4	1979.3
Indicator value	**0.9**	**0.9**	**2.6**	**2.5**	**1.6**	**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	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

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
Unplanned power changes	1.0	0	0	0	0	1.0	1.0
Critical hours	1982.4	2184.0	2150.1	2208.0	2209.0	1626.4	1979.3
Indicator value	**0.9**	**0.9**	**0.9**	**0.8**	**0**	**0.9**	**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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	9.31	10.76	10.35	9.79	34.51	44.53	58.32
Unplanned unavailable hours	0.42	0	0.08	0	0	1.19	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	2184.00	2183.00	2208.00	2209.00	1915.75	2094.90
Train 2							
Planned unavailable hours	10.22	9.72	6.42	18.10	34.97	10.40	68.80
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	2184.00	2183.00	2208.00	2209.00	1915.75	2094.90
Indicator value	**1.2%**	**1.2%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**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/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	0	2.76	11.87	27.90	1.00	1.13	1.22
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	2029.16	2184.00	2183.00	2208.00	2209.00	1671.50	1998.90
Train 2							
Planned unavailable hours	1.12	0.50	0.83	3.13	0.93	1.47	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	2029.16	2184.00	2183.00	2208.00	2209.00	1671.50	1998.90
Indicator value	**0%**	**0%**	**0%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**

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	1.30	1.38	1.18	0.97	19.50	1.32	0.85
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	2023.83	2184.00	2183.00	2208.00	2209.00	1667.17	1998.90
Train 2							
Planned unavailable hours	1.46	1.73	2.42	1.17	14.00	1.23	1.48
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	2023.83	2184.00	2183.00	2208.00	2209.00	1667.70	1998.90
Train 3							
Planned unavailable hours	0	9.95	4.73	3.12	7.37	3.53	6.58
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	2023.83	2184.00	2183.00	2208.00	2209.00	1667.17	1998.90
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	1.00	7.50	3.59	16.48	11.82	29.31	5.04
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	2184.00	2183.00	2208.00	2209.00	1671.50	2006.70
Train 2							
Planned unavailable hours	0	5.10	60.54	15.99	9.23	26.81	10.20
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	2184.00	2183.00	2208.00	2209.00	1671.50	2006.70
Train 3							
Planned unavailable hours	8.42	0	0	0	0	5.95	0
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	2184.00	2183.00	2208.00	2209.00	1917.30	2183.00
Train 4							
Planned unavailable hours	0	0	0	6.13	6.20	9.05	7.13
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	2184.00	2183.00	2208.00	2209.00	1917.30	2183.00
Indicator value	**0.6%**	**0.4%**	**0.4%**	**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	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	0.000940	0.002430	0.000830	0.000776	0.000896	0.000920	0.001480	0.001340	0.001330	0.001280	0.001390	0.001660
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**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.001850	0.002240	0.002790	0.031600	0.038000	0.031000	0.000703	0.000727	0.000804
Technical specification limit	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**	**3.2**	**3.8**	**3.1**	**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	0.696	0.604	0.590	0.644	0.549	0.646	0.205	0.192	0.115	0.155	0.130	0.155
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	**7.0**	**6.0**	**5.9**	**6.4**	**5.5**	**6.5**	**2.0**	**1.9**	**1.2**	**1.6**	**1.3**	**1.6**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	0.193	0.247	0.298	10.002	0.322	0.330	0.086	0.030	0.072
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.9**	**2.5**	**3.0**	**100.0**	**3.2**	**3.3**	**0.9**	**0.3**	**0.7**

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.

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 (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	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 2

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	1.0	0	2.0	0	0	0	0	0
Critical hours	1982.4	2184.0	2150.1	2208.0	2209.0	1626.4	1979.3	2208.0
Indicator value	**0.9**	**0.9**	**2.6**	**2.5**	**1.6**	**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/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	1.0	0	0	0	0	1.0	1.0	0
Critical hours	1982.4	2184.0	2150.1	2208.0	2209.0	1626.4	1979.3	2208.0
Indicator value	**0.9**	**0.9**	**0.9**	**0.8**	**0**	**0.9**	**1.7**	**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	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	9.31	10.76	10.35	9.79	34.51	44.53	58.32	10.45
Unplanned unavailable hours	0.42	0	0.08	0	0	1.19	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	2208.00	2209.00	1915.75	2094.90	2208.00
Train 2								
Planned unavailable hours	10.22	9.72	6.42	18.10	34.97	10.40	68.80	29.19
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	2209.00	2184.00	2183.00	2208.00	2209.00	1915.75	2094.90	2208.00
Indicator value	**1.2%**	**1.2%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**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)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	0	2.76	11.87	27.90	1.00	1.13	1.22	1.60
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	2029.16	2184.00	2183.00	2208.00	2209.00	1671.50	1998.90	2208.00
Train 2								
Planned unavailable hours	1.12	0.50	0.83	3.13	0.93	1.47	1.58	1.43
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	2029.16	2184.00	2183.00	2208.00	2209.00	1671.50	1998.90	2208.00
Indicator value	**0%**	**0%**	**0%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**

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	1.30	1.38	1.18	0.97	19.50	1.32	0.85	0.92
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	2023.83	2184.00	2183.00	2208.00	2209.00	1667.17	1998.90	2208.00
Train 2								
Planned unavailable hours	1.46	1.73	2.42	1.17	14.00	1.23	1.48	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	2023.83	2184.00	2183.00	2208.00	2209.00	1667.70	1998.90	2208.00
Train 3								
Planned unavailable hours	0	9.95	4.73	3.12	7.37	3.53	6.58	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	2023.83	2184.00	2183.00	2208.00	2209.00	1667.17	1998.90	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/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	1.00	7.50	3.59	16.48	11.82	29.31	5.04	4.18
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	2209.00	2184.00	2183.00	2208.00	2209.00	1671.50	2006.70	2208.00
Train 2								
Planned unavailable hours	0	5.10	60.54	15.99	9.23	26.81	10.20	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	2209.00	2184.00	2183.00	2208.00	2209.00	1671.50	2006.70	2208.00
Train 3								
Planned unavailable hours	8.42	0	0	0	0	5.95	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	2184.00	2183.00	2208.00	2209.00	1917.30	2183.00	2208.00
Train 4								
Planned unavailable hours	0	0	0	6.13	6.20	9.05	7.13	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	2184.00	2183.00	2208.00	2209.00	1917.30	2183.00	2208.00
Indicator value	**0.6%**	**0.4%**	**0.4%**	**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	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	0.000940	0.002430	0.000830	0.000776	0.000896	0.000920	0.001480	0.001340	0.001330	0.001280	0.001390	0.001660
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**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**

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	0.001850	0.002240	0.002790	0.031600	0.038000	0.031000	0.000703	0.000727	0.000804	0.000956	0.001140	0.001020
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**	**3.2**	**3.8**	**3.1**	**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	0.696	0.604	0.590	0.644	0.549	0.646	0.205	0.192	0.115	0.155	0.130	0.155
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	**7.0**	**6.0**	**5.9**	**6.4**	**5.5**	**6.5**	**2.0**	**1.9**	**1.2**	**1.6**	**1.3**	**1.6**

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	0.193	0.247	0.298	10.002	0.322	0.330	0.086	0.030	0.072	0.080	0.079	0.185
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**	**2.5**	**3.0**	**100.0**	**3.2**	**3.3**	**0.9**	**0.3**	**0.7**	**0.8**	**0.8**	**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	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.

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 2

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	2.0	0	0	0	0	0	1.0
Critical hours	2184.0	2150.1	2208.0	2209.0	1626.4	1979.3	2208.0	1017.0
Indicator value	**0.9**	**2.6**	**2.5**	**1.6**	**1.7**	**0**	**0**	**1.0**

Licensee Comments:

4Q/01: North Anna Unit 2 was shutdown for reactor head inspection during November 2001.

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	0	0	0	1.0	1.0	0	0
Critical hours	2184.0	2150.1	2208.0	2209.0	1626.4	1979.3	2208.0	1017.0
Indicator value	**0.9**	**0.9**	**0.8**	**0**	**0.9**	**1.7**	**1.7**	**2.0**

Licensee Comments:

4Q/01: North Anna Unit 2 was shutdown for reactor head inspection during November 2001.

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	10.76	10.35	9.79	34.51	44.53	58.32	10.45	33.28
Unplanned unavailable hours	0	0.08	0	0	1.19	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	2208.00	2209.00	1915.75	2094.90	2208.00	1654.37
Train 2								
Planned unavailable hours	9.72	6.42	18.10	34.97	10.40	68.80	29.19	20.13
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	2184.00	2183.00	2208.00	2209.00	1915.75	2094.90	2208.00	1654.37
Indicator value	**1.2%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**1.2%**	**1.3%**	**1.2%**

Licensee Comments:

4Q/01: North Anna Unit 2 was shutdown for reactor head inspection during November 2001.

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	2.76	11.87	27.90	1.00	1.13	1.22	1.60	1.95
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	2184.00	2183.00	2208.00	2209.00	1671.50	1998.90	2208.00	1095.73
Train 2								
Planned unavailable hours	0.50	0.83	3.13	0.93	1.47	1.58	1.43	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	2184.00	2183.00	2208.00	2209.00	1671.50	1998.90	2208.00	1095.73
Indicator value	**0%**	**0%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**

Licensee Comments:

4Q/01: North Anna Unit 2 was shutdown for reactor head inspection during November 2001.

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	1.38	1.18	0.97	19.50	1.32	0.85	0.92	1.23
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	2208.00	2209.00	1667.17	1998.90	2208.00	1085.55
Train 2								
Planned unavailable hours	1.73	2.42	1.17	14.00	1.23	1.48	1.12	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	2208.00	2209.00	1667.70	1998.90	2208.00	1085.55
Train 3								
Planned unavailable hours	9.95	4.73	3.12	7.37	3.53	6.58	2.98	5.05
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	2184.00	2183.00	2208.00	2209.00	1667.17	1998.90	2208.00	1085.55
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**	**0.2%**

Licensee Comments:

4Q/01: North Anna Unit 2 was shutdown for reactor head inspection during November 2001.

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	7.50	3.59	16.48	11.82	29.31	5.04	4.18	1.85
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	2208.00	2209.00	1671.50	2006.70	2208.00	1095.73
Train 2								
Planned unavailable hours	5.10	60.54	15.99	9.23	26.81	10.20	2.50	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	2208.00	2209.00	1671.50	2006.70	2208.00	1095.73
Train 3								
Planned unavailable hours	0	0	0	0	5.95	0	0	5.36
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	2208.00	2209.00	1917.30	2183.00	2208.00	1736.49
Train 4								
Planned unavailable hours	0	0	6.13	6.20	9.05	7.13	0	3.15
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	2184.00	2183.00	2208.00	2209.00	1917.30	2183.00	2208.00	1736.49
Indicator value	**0.4%**	**0.4%**	**0.3%**	**0.2%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments:

4Q/01: North Anna Unit 2 was shutdown for reactor head inspection during November 2001.

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	0.000776	0.000896	0.000920	0.001480	0.001340	0.001330	0.001280	0.001390	0.001660	0.001850	0.002240	0.002790
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**	**0.2**	**0.2**	**0.2**	**0.3**

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	0.031600	0.038000	0.031000	0.000703	0.000727	0.000804	0.000956	0.001140	0.001020	0.001190	N/A	0.001120
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	**3.2**	**3.8**	**3.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**0.1**

Licensee Comments:

12/01: Unavailability of data for November 2001 due to plant conditions that do not require RCS activity to be calculated.

12/01: Unavailability of data for November 2001 due to plant conditions that do not require RCS activity to be calculated.

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	0.644	0.549	0.646	0.205	0.192	0.115	0.155	0.130	0.155	0.193	0.247	0.298
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	**6.4**	**5.5**	**6.5**	**2.0**	**1.9**	**1.2**	**1.6**	**1.3**	**1.6**	**1.9**	**2.5**	**3.0**

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	10.002	0.322	0.330	0.086	0.030	0.072	0.080	0.079	0.185	0.072	N/A	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	**100.0**	**3.2**	**3.3**	**0.9**	**0.3**	**0.7**	**0.8**	**0.8**	**1.9**	**0.7**	**N/A**	**2.0**

Licensee Comments:

12/01: Unavailability of data for November 2001 due to plant conditions that do not require RCS activity to be calculated.

12/01: Unavailability of data for November 2001 due to plant conditions that do not require RCS activity to be calculated.

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

Last Modified: March 15, 2002

North Anna 2

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	2.0	0	0	0	0	0	1.0	0
Critical hours	2150.1	2208.0	2209.0	1626.4	1979.3	2208.0	1017.0	2160.0
Indicator value	**2.6**	**2.5**	**1.6**	**1.7**	**0**	**0**	**1.0**	**1.0**

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	0	0	0	1.0	1.0	0	0	0
Critical hours	2150.1	2208.0	2209.0	1626.4	1979.3	2208.0	1017.0	2160.0
Indicator value	**0.9**	**0.8**	**0**	**0.9**	**1.7**	**1.7**	**2.0**	**1.0**

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	10.35	9.79	34.51	44.53	58.32	10.45	33.28	13.03
Unplanned unavailable hours	0.08	0	0	1.19	0	0	0	0.17
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	1915.75	2094.90	2208.00	1654.37	2160.00
Train 2								
Planned unavailable hours	6.42	18.10	34.97	10.40	68.80	29.19	20.13	9.28
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	2208.00	2209.00	1915.75	2094.90	2208.00	1654.37	2160.00
Indicator value	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**1.2%**	**1.3%**	**1.2%**	**1.1%**

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	11.87	27.90	1.00	1.13	1.22	1.60	1.95	1.38
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	2183.00	2208.00	2209.00	1671.50	1998.90	2208.00	1095.73	2160.00
Train 2								
Planned unavailable hours	0.83	3.13	0.93	1.47	1.58	1.43	1.50	1.65
Unplanned unavailable hours	0	0	0	0	0	0	0	0.42
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1671.50	1998.90	2208.00	1095.73	2160.00
Indicator value	**0%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**

Licensee Comments:

1Q/02: Experienced 83.69 unknown T/2 fault exposure hrs. based on Cooling Water support system inoperability.

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	1.18	0.97	19.50	1.32	0.85	0.92	1.23	14.08
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	1667.17	1998.90	2208.00	1085.55	2160.00
Train 2								
Planned unavailable hours	2.42	1.17	14.00	1.23	1.48	1.12	0	1.22
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	2183.00	2208.00	2209.00	1667.70	1998.90	2208.00	1085.55	2160.00
Train 3								
Planned unavailable hours	4.73	3.12	7.37	3.53	6.58	2.98	5.05	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	2183.00	2208.00	2209.00	1667.17	1998.90	2208.00	1085.55	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	3.59	16.48	11.82	29.31	5.04	4.18	1.85	4.16
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	1671.50	2006.70	2208.00	1095.73	2160.00
Train 2								
Planned unavailable hours	60.54	15.99	9.23	26.81	10.20	2.50	0	3.18
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	2208.00	2209.00	1671.50	2006.70	2208.00	1095.73	2160.00
Train 3								
Planned unavailable hours	0	0	0	5.95	0	0	5.36	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	1917.30	2183.00	2208.00	1736.49	2160.00
Train 4								
Planned unavailable hours	0	6.13	6.20	9.05	7.13	0	3.15	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	2183.00	2208.00	2209.00	1917.30	2183.00	2208.00	1736.49	2160.00
Indicator value	**0.4%**	**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)	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	0.001480	0.001340	0.001330	0.001280	0.001390	0.001660	0.001850	0.002240	0.002790	0.031600	0.038000	0.031000
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**	**0.2**	**0.2**	**0.2**	**0.3**	**3.2**	**3.8**	**3.1**

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	0.000703	0.000727	0.000804	0.000956	0.001140	0.001020	0.001190	N/A	0.001120	0.001140	0.001280	0.001270
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**	**N/A**	**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	0.205	0.192	0.115	0.155	0.130	0.155	0.193	0.247	0.298	10.002	0.322	0.330
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**	**1.2**	**1.6**	**1.3**	**1.6**	**1.9**	**2.5**	**3.0**	**100.0**	**3.2**	**3.3**

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	0.086	0.030	0.072	0.080	0.079	0.185	0.072	N/A	0.198	0.122	0.128	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	**0.9**	**0.3**	**0.7**	**0.8**	**0.8**	**1.9**	**0.7**	**N/A**	**2.0**	**1.2**	**1.3**	**1.1**

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 2

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	1.0	0	0
Critical hours	2208.0	2209.0	1626.4	1979.3	2208.0	1017.0	2160.0	2183.0
Indicator value	**2.5**	**1.6**	**1.7**	**0**	**0**	**1.0**	**1.0**	**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	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	1.0	1.0	0	0	0	0
Critical hours	2208.0	2209.0	1626.4	1979.3	2208.0	1017.0	2160.0	2183.0
Indicator value	**0.8**	**0**	**0.9**	**1.7**	**1.7**	**2.0**	**1.0**	**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/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	9.79	34.51	44.53	58.32	10.45	33.28	13.03	5.75
Unplanned unavailable hours	0	0	1.19	0	0	0	0.17	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	1915.75	2094.90	2208.00	1654.37	2160.00	2183.00
Train 2								
Planned unavailable hours	18.10	34.97	10.40	68.80	29.19	20.13	9.28	5.72
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	2208.00	2209.00	1915.75	2094.90	2208.00	1654.37	2160.00	2183.00
Indicator value	**1.0%**	**1.0%**	**1.0%**	**1.2%**	**1.3%**	**1.2%**	**1.1%**	**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)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	27.90	1.00	1.13	1.22	1.60	1.95	1.38	0.27
Unplanned unavailable hours	0	0	0	0	0	0	0	1.38
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	1671.50	1998.90	2208.00	1095.73	2160.00	2183.00
Train 2								
Planned unavailable hours	3.13	0.93	1.47	1.58	1.43	1.50	1.65	0
Unplanned unavailable hours	0	0	0	0	0	0	0.42	7.05
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	1671.50	1998.90	2208.00	1095.73	2160.00	2183.00
Indicator value	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**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)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	0.97	19.50	1.32	0.85	0.92	1.23	14.08	1.47
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	1667.17	1998.90	2208.00	1085.55	2160.00	2183.00
Train 2								
Planned unavailable hours	1.17	14.00	1.23	1.48	1.12	0	1.22	6.68
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	1667.70	1998.90	2208.00	1085.55	2160.00	2183.00
Train 3								
Planned unavailable hours	3.12	7.37	3.53	6.58	2.98	5.05	5.22	3.90
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	1667.17	1998.90	2208.00	1085.55	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	16.48	11.82	29.31	5.04	4.18	1.85	4.16	19.60
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	1671.50	2006.70	2208.00	1095.73	2160.00	2183.00
Train 2								
Planned unavailable hours	15.99	9.23	26.81	10.20	2.50	0	3.18	10.60
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	1671.50	2006.70	2208.00	1095.73	2160.00	2183.00
Train 3								
Planned unavailable hours	0	0	5.95	0	0	5.36	0	3.17
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	1917.30	2183.00	2208.00	1736.49	2160.00	2183.00
Train 4								
Planned unavailable hours	6.13	6.20	9.05	7.13	0	3.15	0	5.93

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	2208.00	2209.00	1917.30	2183.00	2208.00	1736.49	2160.00	2183.00
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)	**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

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	0.001280	0.001390	0.001660	0.001850	0.002240	0.002790	0.031600	0.038000	0.031000	0.000703	0.000727	0.000804
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**	**0.2**	**0.2**	**0.2**	**0.3**	**3.2**	**3.8**	**3.1**	**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	0.000956	0.001140	0.001020	0.001190	N/A	0.001120	0.001140	0.001280	0.001270	0.001470	0.001470	0.001440
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**	**N/A**	**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	0.155	0.130	0.155	0.193	0.247	0.298	10.002	0.322	0.330	0.086	0.030	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	**1.6**	**1.3**	**1.6**	**1.9**	**2.5**	**3.0**	**100.0**	**3.2**	**3.3**	**0.9**	**0.3**	**0.7**

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	0.080	0.079	0.185	0.072	N/A	0.198	0.122	0.128	0.105	0.104	0.153	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	**0.8**	**0.8**	**1.9**	**0.7**	**N/A**	**2.0**	**1.2**	**1.3**	**1.1**	**1.0**	**1.5**	**1.3**

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

RETS/ODCM Radiological Effluent

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 2

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	1.0	0	0	0
Critical hours	2209.0	1626.4	1979.3	2208.0	1017.0	2160.0	2183.0	1657.7
Indicator value	**1.6**	**1.7**	**0**	**0**	**1.0**	**1.0**	**0.9**	**1.0**

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	1.0	1.0	0	0	0	0	0
Critical hours	2209.0	1626.4	1979.3	2208.0	1017.0	2160.0	2183.0	1657.7
Indicator value	**0**	**0.9**	**1.7**	**1.7**	**2.0**	**1.0**	**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/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	34.51	44.53	58.32	10.45	33.28	13.03	5.75	9.14
Unplanned unavailable hours	0	1.19	0	0	0	0.17	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	1915.75	2094.90	2208.00	1654.37	2160.00	2183.00	1939.19
Train 2								
Planned unavailable hours	34.97	10.40	68.80	29.19	20.13	9.28	5.72	27.65
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	1915.75	2094.90	2208.00	1654.37	2160.00	2183.00	1939.19
Indicator value	**1.0%**	**1.0%**	**1.2%**	**1.3%**	**1.2%**	**1.1%**	**1.0%**	**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)	**4Q/00**	**1Q/01**	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**
Train 1								
Planned unavailable hours	1.00	1.13	1.22	1.60	1.95	1.38	0.27	12.08
Unplanned unavailable hours	0	0	0	0	0	0	1.38	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	1671.50	1998.90	2208.00	1095.73	2160.00	2183.00	1668.50
Train 2								
Planned unavailable hours	0.93	1.47	1.58	1.43	1.50	1.65	0	0.99
Unplanned unavailable hours	0	0	0	0	0	0.42	7.05	10.90
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	1671.50	1998.90	2208.00	1095.73	2160.00	2183.00	1668.50
Indicator value	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.2%**	**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)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	19.50	1.32	0.85	0.92	1.23	14.08	1.47	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	1667.17	1998.90	2208.00	1085.55	2160.00	2183.00	1670.37
Train 2								
Planned unavailable hours	14.00	1.23	1.48	1.12	0	1.22	6.68	1.53
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	1667.70	1998.90	2208.00	1085.55	2160.00	2183.00	1670.37
Train 3								
Planned unavailable hours	7.37	3.53	6.58	2.98	5.05	5.22	3.90	12.12
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	1667.17	1998.90	2208.00	1085.55	2160.00	2183.00	1666.63
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	11.82	29.31	5.04	4.18	1.85	4.16	19.60	31.84
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	1671.50	2006.70	2208.00	1095.73	2160.00	2183.00	1670.37
Train 2								
Planned unavailable hours	9.23	26.81	10.20	2.50	0	3.18	10.60	33.44
Unplanned unavailable hours	0	0	0	0	0	0	0	1.98
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1671.50	2006.70	2208.00	1095.73	2160.00	2183.00	1670.37
Train 3								
Planned unavailable hours	0	5.95	0	0	5.36	0	3.17	2.32
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	1917.30	2183.00	2208.00	1736.49	2160.00	2183.00	1816.60
Train 4								
Planned unavailable hours	6.20	9.05	7.13	0	3.15	0	5.93	1.08
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	1917.30	2183.00	2208.00	1736.49	2160.00	2183.00	1816.60
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)	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	0.001850	0.002240	0.002790	0.031600	0.038000	0.031000	0.000703	0.000727	0.000804	0.000956	0.001140	0.001020
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**	**3.2**	**3.8**	**3.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.001190	N/A	0.001120	0.001140	0.001280	0.001270	0.001470	0.001470	0.001440	0.001510	0.001640	0.001540
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**	**N/A**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**

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	0.193	0.247	0.298	10.002	0.322	0.330	0.086	0.030	0.072	0.080	0.079	0.185
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**	**2.5**	**3.0**	**100.0**	**3.2**	**3.3**	**0.9**	**0.3**	**0.7**	**0.8**	**0.8**	**1.9**

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	0.072	N/A	0.198	0.122	0.128	0.105	0.104	0.153	0.126	0.122	0.146	0.110
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**	**N/A**	**2.0**	**1.2**	**1.3**	**1.1**	**1.0**	**1.5**	**1.3**	**1.2**	**1.5**	**1.1**

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 2

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	1.0	0	0	0	0
Critical hours	1626.4	1979.3	2208.0	1017.0	2160.0	2183.0	1657.7	0
Indicator value	**1.7**	**0**	**0**	**1.0**	**1.0**	**0.9**	**1.0**	**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

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	1.0	1.0	0	0	0	0	0	0
Critical hours	1626.4	1979.3	2208.0	1017.0	2160.0	2183.0	1657.7	0
Indicator value	**0.9**	**1.7**	**1.7**	**2.0**	**1.0**	**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	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	44.53	58.32	10.45	33.28	13.03	5.75	9.14	0
Unplanned unavailable hours	1.19	0	0	0	0.17	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	1915.75	2094.90	2208.00	1654.37	2160.00	2183.00	1939.19	861.00
Train 2								
Planned unavailable hours	10.40	68.80	29.19	20.13	9.28	5.72	12.30	0
Unplanned unavailable hours	0	0	0	0	0	0	15.35	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	1915.75	2094.90	2208.00	1654.37	2160.00	2183.00	1939.19	1348.00
Indicator value	**1.0%**	**1.2%**	**1.3%**	**1.2%**	**1.1%**	**1.0%**	**1.0%**	**1.0%**

Licensee Comments:

3Q/02: 15.35 unplanned, unavailable hrs. incorrectly included in 8/2002, Train 2, planned, unavailable hrs. 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)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	1.13	1.22	1.60	1.95	1.38	0.27	12.08	0
Unplanned unavailable hours	0	0	0	0	0	1.38	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	1671.50	1998.90	2208.00	1095.73	2160.00	2183.00	1668.50	0
Train 2								
Planned unavailable hours	1.47	1.58	1.43	1.50	1.65	0	0.99	0
Unplanned unavailable hours	0	0	0	0	0.42	7.05	10.90	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	1671.50	1998.90	2208.00	1095.73	2160.00	2183.00	1668.50	0
Indicator value	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.2%**	**0.2%**	**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)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	1.32	0.85	0.92	1.23	14.08	1.47	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	1667.17	1998.90	2208.00	1085.55	2160.00	2183.00	1670.37	0
Train 2								
Planned unavailable hours	1.23	1.48	1.12	0	1.22	6.68	1.53	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	1667.70	1998.90	2208.00	1085.55	2160.00	2183.00	1670.37	0
Train 3								
Planned unavailable hours	3.53	6.58	2.98	5.05	5.22	3.90	12.12	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	1667.17	1998.90	2208.00	1085.55	2160.00	2183.00	1666.63	0
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	29.31	5.04	4.18	1.85	4.16	19.60	31.84	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	1671.50	2006.70	2208.00	1095.73	2160.00	2183.00	1670.37	0
Train 2								
Planned unavailable hours	26.81	10.20	2.50	0	3.18	10.60	33.44	0
Unplanned unavailable hours	0	0	0	0	0	0	1.98	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	1671.50	2006.70	2208.00	1095.73	2160.00	2183.00	1670.37	0
Train 3								
Planned unavailable hours	5.95	0	0	5.36	0	3.17	2.32	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	1917.30	2183.00	2208.00	1736.49	2160.00	2183.00	1816.60	0
Train 4								
Planned unavailable hours	9.05	7.13	0	3.15	0	5.93	1.08	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	1917.30	2183.00	2208.00	1736.49	2160.00	2183.00	1816.60	0
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**

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	0.031600	0.038000	0.031000	0.000703	0.000727	0.000804	0.000956	0.001140	0.001020	0.001190	N/A	0.001120
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	**3.2**	**3.8**	**3.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**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	0.001140	0.001280	0.001270	0.001470	0.001470	0.001440	0.001510	0.001640	0.001540	N/A	N/A	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**N/A**	**N/A**	**N/A**

Licensee Comments:

12/02: 4Q/02 data unavailable due to Unit being defueled / shutdown.

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	10.002	0.322	0.330	0.086	0.030	0.072	0.080	0.079	0.185	0.072	N/A	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	**100.0**	**3.2**	**3.3**	**0.9**	**0.3**	**0.7**	**0.8**	**0.8**	**1.9**	**0.7**	**N/A**	**2.0**

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	0.122	0.128	0.105	0.104	0.153	0.126	0.122	0.146	0.110	N/A	N/A	N/A
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.2**	**1.3**	**1.1**	**1.0**	**1.5**	**1.3**	**1.2**	**1.5**	**1.1**	**N/A**	**N/A**	**N/A**

Licensee Comments:

12/02: 4Q/02 data unavailable due to Unit being defueled / shutdown.

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 2

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	1.0	0	0	0	0	1.0
Critical hours	1979.3	2208.0	1017.0	2160.0	2183.0	1657.7	0	1434.3
Indicator value	**0**	**0**	**1.0**	**1.0**	**0.9**	**1.0**	**0**	**1.3**

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	1.0	0	0	0	0	0	0	0
Critical hours	1979.3	2208.0	1017.0	2160.0	2183.0	1657.7	0	1434.3
Indicator value	**1.7**	**1.7**	**2.0**	**1.0**	**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	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	58.32	10.45	33.28	13.03	5.75	9.14	0	9.13
Unplanned unavailable hours	0	0	0	0.17	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	2094.90	2208.00	1654.37	2160.00	2183.00	1939.19	861.00	1819.64
Train 2								
Planned unavailable hours	68.80	29.19	20.13	9.28	5.72	12.30	0	5.74
Unplanned unavailable hours	0	0	0	0	0	15.35	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	2094.90	2208.00	1654.37	2160.00	2183.00	1939.19	1348.00	1819.64
Indicator value	**1.2%**	**1.3%**	**1.2%**	**1.1%**	**1.0%**	**1.0%**	**1.0%**	**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/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	1.22	1.60	1.95	1.38	0.27	12.08	0	1.77
Unplanned unavailable hours	0	0	0	0	1.38	0	0	8.92
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1998.90	2208.00	1095.73	2160.00	2183.00	1668.50	0	1474.13
Train 2								
Planned unavailable hours	1.58	1.43	1.50	1.65	0	0.99	0	1.48
Unplanned unavailable hours	0	0	0	0.42	7.05	10.90	0	8.92
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1998.90	2208.00	1095.73	2160.00	2183.00	1668.50	0	1474.13
Indicator value	**0.1%**	**0.1%**	**0.1%**	**0.1%**	**0.2%**	**0.2%**	**0.2%**	**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/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0.85	0.92	1.23	14.08	1.47	0	0	2.05
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	1998.90	2208.00	1085.55	2160.00	2183.00	1670.37	0	1468.98
Train 2								
Planned unavailable hours	1.48	1.12	0	1.22	6.68	1.53	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0.25
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1998.90	2208.00	1085.55	2160.00	2183.00	1670.37	0	1468.98
Train 3								
Planned unavailable hours	6.58	2.98	5.05	5.22	3.90	12.12	0	7.61
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	1998.90	2208.00	1085.55	2160.00	2183.00	1666.63	0	1468.98
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	5.04	4.18	1.85	4.16	19.60	31.84	0	1.91
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	2006.70	2208.00	1095.73	2160.00	2183.00	1670.37	0	1479.28
Train 2								
Planned unavailable hours	10.20	2.50	0	3.18	10.60	33.44	0	2.70
Unplanned unavailable hours	0	0	0	0	0	1.98	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	2006.70	2208.00	1095.73	2160.00	2183.00	1670.37	0	1479.28
Train 3								
Planned unavailable hours	0	0	5.36	0	3.17	2.32	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	1736.49	2160.00	2183.00	1816.60	0	1798.81
Train 4								
Planned unavailable hours	7.13	0	3.15	0	5.93	1.08	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	1736.49	2160.00	2183.00	1816.60	0	1798.81
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**

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

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	0.000703	0.000727	0.000804	0.000956	0.001140	0.001020	0.001190	N/A	0.001120	0.001140	0.001280	0.001270
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**	**N/A**	**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	0.001470	0.001470	0.001440	0.001510	0.001640	0.001540	N/A	N/A	N/A	N/A	0.000753	0.000682
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**	**0.2**	**0.2**	**N/A**	**N/A**	**N/A**	**N/A**	**0.1**	**0.1**

Licensee Comments:

3/03: 1/2003 data unavailable due to the lack of solid-state plant conditions / start-up activities in progress.

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	0.086	0.030	0.072	0.080	0.079	0.185	0.072	N/A	0.198	0.122	0.128	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	**0.9**	**0.3**	**0.7**	**0.8**	**0.8**	**1.9**	**0.7**	**N/A**	**2.0**	**1.2**	**1.3**	**1.1**

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	0.104	0.153	0.126	0.122	0.146	0.110	N/A	N/A	N/A	0.080	0.134	0.031
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**	**1.3**	**1.2**	**1.5**	**1.1**	**N/A**	**N/A**	**N/A**	**0.8**	**1.3**	**0.3**

Licensee Comments: none

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

Occupational Exposure Control Effectiveness

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 2

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	1.0	0	0	0	0	1.0	0
Critical hours	2208.0	1017.0	2160.0	2183.0	1657.7	0	1434.3	2180.8
Indicator value	**0**	**1.0**	**1.0**	**0.9**	**1.0**	**0**	**1.3**	**1.3**

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	0	0	0	0	0
Critical hours	2208.0	1017.0	2160.0	2183.0	1657.7	0	1434.3	2180.8
Indicator value	**1.7**	**2.0**	**1.0**	**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	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	10.45	33.28	13.03	5.75	9.14	0	9.13	36.01
Unplanned unavailable hours	0	0	0.17	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	1654.37	2160.00	2183.00	1939.19	861.00	1819.64	2183.00
Train 2								
Planned unavailable hours	29.19	20.13	9.28	5.72	12.30	0	5.74	60.32
Unplanned unavailable hours	0	0	0	0	15.35	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	1654.37	2160.00	2183.00	1939.19	1348.00	1819.64	2183.00
Indicator value	**1.3%**	**1.2%**	**1.1%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**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)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	1.60	1.95	1.38	0.27	12.08	0	1.77	1.35
Unplanned unavailable hours	0	0	0	1.38	0	0	8.92	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	1095.73	2160.00	2183.00	1668.50	0	1474.13	2183.00
Train 2								
Planned unavailable hours	1.43	1.50	1.65	0	0.99	0	1.48	0.97
Unplanned unavailable hours	0	0	0.42	7.05	10.90	0	8.92	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	1095.73	2160.00	2183.00	1668.50	0	1474.13	2183.00
Indicator value	**0.1%**	**0.1%**	**0.1%**	**0.2%**	**0.2%**	**0.2%**	**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)	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	0.92	1.23	14.08	1.47	0	0	2.05	1.73
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	1085.55	2160.00	2183.00	1670.37	0	1468.98	2183.00
Train 2								
Planned unavailable hours	1.12	0	1.22	6.68	1.53	0	0	4.68
Unplanned unavailable hours	0	0	0	0	0	0	0.25	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	1085.55	2160.00	2183.00	1670.37	0	1468.98	2183.00
Train 3								
Planned unavailable hours	2.98	5.05	5.22	3.90	12.12	0	7.61	1.43
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	2208.00	1085.55	2160.00	2183.00	1666.63	0	1468.98	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/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	4.18	1.85	4.16	19.60	31.84	0	1.91	3.97
Unplanned unavailable hours	0	0	0	0	0	0	0	28.90
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	1095.73	2160.00	2183.00	1670.37	0	1479.28	2183.00
Train 2								
Planned unavailable hours	2.50	0	3.18	10.60	33.44	0	2.70	1.72
Unplanned unavailable hours	0	0	0	0	1.98	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	1095.73	2160.00	2183.00	1670.37	0	1479.28	2183.00
Train 3								
Planned unavailable hours	0	5.36	0	3.17	2.32	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	1736.49	2160.00	2183.00	1816.60	0	1798.81	2183.00
Train 4								
Planned unavailable hours	0	3.15	0	5.93	1.08	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	1736.49	2160.00	2183.00	1816.60	0	1798.81	2183.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**

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	0.000956	0.001140	0.001020	0.001190	N/A	0.001120	0.001140	0.001280	0.001270	0.001470	0.001470	0.001440
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**	**N/A**	**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	0.001510	0.001640	0.001540	N/A	N/A	N/A	N/A	0.000753	0.000682	0.000765	0.000792	0.000803
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**	**0.2**	**N/A**	**N/A**	**N/A**	**N/A**	**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	7/01	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02
Maximum leakage	0.080	0.079	0.185	0.072	N/A	0.198	0.122	0.128	0.105	0.104	0.153	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	**0.8**	**0.8**	**1.9**	**0.7**	**N/A**	**2.0**	**1.2**	**1.3**	**1.1**	**1.0**	**1.5**	**1.3**

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	0.122	0.146	0.110	N/A	N/A	N/A	0.080	0.134	0.031	0.068	0.079	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	**1.2**	**1.5**	**1.1**	**N/A**	**N/A**	**N/A**	**0.8**	**1.3**	**0.3**	**0.7**	**0.8**	**0.7**

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

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

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 2

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	1.0	0	0	0	0	1.0	0	0
Critical hours	1017.0	2160.0	2183.0	1657.7	0	1434.3	2180.8	2208.0
Indicator value	**1.0**	**1.0**	**0.9**	**1.0**	**0**	**1.3**	**1.3**	**1.2**

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	0	0	0	0	0	0
Critical hours	1017.0	2160.0	2183.0	1657.7	0	1434.3	2180.8	2208.0
Indicator value	**2.0**	**1.0**	**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/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	33.28	13.03	5.75	9.14	0	9.13	36.01	30.54
Unplanned unavailable hours	0	0.17	0	0	0	0	0	14.10
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1654.37	2160.00	2183.00	1939.19	861.00	1819.64	2183.00	2208.00
Train 2								
Planned unavailable hours	20.13	9.28	5.72	12.30	0	5.74	60.32	34.65
Unplanned unavailable hours	0	0	0	15.35	0	0	0	10.73
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1654.37	2160.00	2183.00	1939.19	1348.00	1819.64	2183.00	2208.00
Indicator value	**1.2%**	**1.1%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**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)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	1.95	1.38	0.27	12.08	0	1.77	1.35	2.57
Unplanned unavailable hours	0	0	1.38	0	0	8.92	0	0.55
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1095.73	2160.00	2183.00	1668.50	0	1474.13	2183.00	2208.00
Train 2								
Planned unavailable hours	1.50	1.65	0	0.99	0	1.48	0.97	0.72
Unplanned unavailable hours	0	0.42	7.05	10.90	0	8.92	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	1095.73	2160.00	2183.00	1668.50	0	1474.13	2183.00	2208.00
Indicator value	**0.1%**	**0.1%**	**0.2%**	**0.2%**	**0.2%**	**0.3%**	**0.2%**	**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)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	1.23	14.08	1.47	0	0	2.05	1.73	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	1085.55	2160.00	2183.00	1670.37	0	1468.98	2183.00	2208.00
Train 2								
Planned unavailable hours	0	1.22	6.68	1.53	0	0	4.68	2.08
Unplanned unavailable hours	0	0	0	0	0	0.25	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	1085.55	2160.00	2183.00	1670.37	0	1468.98	2183.00	2208.00
Train 3								
Planned unavailable hours	5.05	5.22	3.90	12.12	0	7.61	1.43	5.12
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	1085.55	2160.00	2183.00	1666.63	0	1468.98	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/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	1.85	4.16	19.60	31.84	0	1.91	3.97	39.06
Unplanned unavailable hours	0	0	0	0	0	0	28.90	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	1095.73	2160.00	2183.00	1670.37	0	1479.28	2183.00	2208.00
Train 2								
Planned unavailable hours	0	3.18	10.60	33.44	0	2.70	1.72	5.36
Unplanned unavailable hours	0	0	0	1.98	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	1095.73	2160.00	2183.00	1670.37	0	1479.28	2183.00	2208.00
Train 3								
Planned unavailable hours	5.36	0	3.17	2.32	0	0	0	6.52
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	1736.49	2160.00	2183.00	1816.60	0	1798.81	2183.00	2208.00
Train 4								
Planned unavailable hours	3.15	0	5.93	1.08	0	0	0	11.33

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	1736.49	2160.00	2183.00	1816.60	0	1798.81	2183.00	2208.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**

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	0.001190	N/A	0.001120	0.001140	0.001280	0.001270	0.001470	0.001470	0.001440	0.001510	0.001640	0.001540
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**	**N/A**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**

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	N/A	N/A	N/A	N/A	0.000753	0.000682	0.000765	0.000792	0.000803	0.000868	0.000851	0.000887
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**	**N/A**	**N/A**	**N/A**	**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	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum leakage	0.072	N/A	0.198	0.122	0.128	0.105	0.104	0.153	0.126	0.122	0.146	0.110
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**	**N/A**	**2.0**	**1.2**	**1.3**	**1.1**	**1.0**	**1.5**	**1.3**	**1.2**	**1.5**	**1.1**

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	N/A	N/A	N/A	0.080	0.134	0.031	0.068	0.079	0.072	0.115	0.064	0.078
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**N/A**	**N/A**	**N/A**	**0.8**	**1.3**	**0.3**	**0.7**	**0.8**	**0.7**	**1.2**	**0.6**	**0.8**

Licensee Comments: none

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 data.

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 2

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	1.0	0	0	0
Critical hours	2160.0	2183.0	1657.7	0	1434.3	2180.8	2208.0	2209.0
Indicator value	**1.0**	**0.9**	**1.0**	**0**	**1.3**	**1.3**	**1.2**	**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	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

Unplanned Power Changes per 7000 Critical Hrs

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	0	0	0	0	0	0	0
Critical hours	2160.0	2183.0	1657.7	0	1434.3	2180.8	2208.0	2209.0
Indicator value	**1.0**	**0**	**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	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	13.03	5.75	9.14	0	9.13	36.01	30.54	9.80
Unplanned unavailable hours	0.17	0	0	0	0	0	14.10	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	1939.19	861.00	1819.64	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	9.28	5.72	12.30	0	5.74	60.32	34.65	9.91
Unplanned unavailable hours	0	0	15.35	0	0	0	10.73	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	2160.00	2183.00	1939.19	1348.00	1819.64	2183.00	2208.00	2209.00
Indicator value	**1.1%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**1.2%**	**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)	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**	**4Q/03**
Train 1								
Planned unavailable hours	1.38	0.27	12.08	0	1.77	1.35	2.57	4.89
Unplanned unavailable hours	0	1.38	0	0	8.92	0	0.55	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	1668.50	0	1474.13	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	1.65	0	0.99	0	1.48	0.97	0.72	0.73
Unplanned unavailable hours	0.42	7.05	10.90	0	8.92	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	1668.50	0	1474.13	2183.00	2208.00	2209.00
Indicator value	**0.1%**	**0.2%**	**0.2%**	**0.2%**	**0.3%**	**0.2%**	**0.2%**	**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)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	14.08	1.47	0	0	2.05	1.73	2.40	2.33
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	2160.00	2183.00	1670.37	0	1468.98	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	1.22	6.68	1.53	0	0	4.68	2.08	11.33
Unplanned unavailable hours	0	0	0	0	0.25	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	1670.37	0	1468.98	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	5.22	3.90	12.12	0	7.61	1.43	5.12	5.20
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	2160.00	2183.00	1666.63	0	1468.98	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/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	4.16	19.60	31.84	0	1.91	3.97	39.06	4.58
Unplanned unavailable hours	0	0	0	0	0	28.90	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	1670.37	0	1479.28	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	3.18	10.60	33.44	0	2.70	1.72	5.36	7.65
Unplanned unavailable hours	0	0	1.98	0	0	0	0	8.26
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	1670.37	0	1479.28	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0	3.17	2.32	0	0	0	6.52	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	1816.60	0	1798.81	2183.00	2208.00	2209.00
Train 4								
Planned unavailable hours	0	5.93	1.08	0	0	0	11.33	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	2160.00	2183.00	1816.60	0	1798.81	2183.00	2208.00	2209.00
Indicator value	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**

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

Reactor Coolant System Activity

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	0.001140	0.001280	0.001270	0.001470	0.001470	0.001440	0.001510	0.001640	0.001540	N/A	N/A	N/A
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**N/A**	**N/A**	**N/A**

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	N/A	0.000753	0.000682	0.000765	0.000792	0.000803	0.000868	0.000851	0.000887	0.000935	0.000996	0.000984
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**	**0.1**	**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	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02
Maximum leakage	0.122	0.128	0.105	0.104	0.153	0.126	0.122	0.146	0.110	N/A	N/A	N/A
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.2**	**1.3**	**1.1**	**1.0**	**1.5**	**1.3**	**1.2**	**1.5**	**1.1**	**N/A**	**N/A**	**N/A**

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	0.080	0.134	0.031	0.068	0.079	0.072	0.115	0.064	0.078	0.124	0.028	0.062
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**	**1.3**	**0.3**	**0.7**	**0.8**	**0.7**	**1.2**	**0.6**	**0.8**	**1.2**	**0.3**	**0.6**

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

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 2

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	1.0	0	0	0	0
Critical hours	2183.0	1657.7	0	1434.3	2180.8	2208.0	2209.0	2184.0
Indicator value	**0.9**	**1.0**	**0**	**1.3**	**1.3**	**1.2**	**0.9**	**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/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	0	0	0	0	0	0	0	0
Critical hours	2183.0	1657.7	0	1434.3	2180.8	2208.0	2209.0	2184.0
Indicator value	**0**	**0**	**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	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	5.75	9.14	0	9.13	36.01	30.54	9.80	10.16
Unplanned unavailable hours	0	0	0	0	0	14.10	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	1939.19	861.00	1819.64	2183.00	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	5.72	12.30	0	5.74	60.32	34.65	9.91	8.81
Unplanned unavailable hours	0	15.35	0	0	0	10.73	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	2183.00	1939.19	1348.00	1819.64	2183.00	2208.00	2209.00	2184.00
Indicator value	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**1.2%**	**1.3%**	**1.2%**	**1.1%**

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	0.27	12.08	0	1.77	1.35	2.57	4.89	1.70
Unplanned unavailable hours	1.38	0	0	8.92	0	0.55	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	1668.50	0	1474.13	2183.00	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	0	0.99	0	1.48	0.97	0.72	0.73	2.30
Unplanned unavailable hours	7.05	10.90	0	8.92	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	1668.50	0	1474.13	2183.00	2208.00	2209.00	2184.00
Indicator value	**0.2%**	**0.2%**	**0.2%**	**0.3%**	**0.2%**	**0.2%**	**0.2%**	**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/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	1.47	0	0	2.05	1.73	2.40	2.33	10.55
Unplanned unavailable hours	0	0	0	0	0	0	0	7.42
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	1670.37	0	1468.98	2183.00	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	6.68	1.53	0	0	4.68	2.08	11.33	9.70
Unplanned unavailable hours	0	0	0	0.25	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	1670.37	0	1468.98	2183.00	2208.00	2209.00	2184.00
Train 3								
Planned unavailable hours	3.90	12.12	0	7.61	1.43	5.12	5.20	13.81
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	1666.63	0	1468.98	2183.00	2208.00	2209.00	2184.00
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/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	19.60	31.84	0	1.91	3.97	39.06	4.58	46.48
Unplanned unavailable hours	0	0	0	0	28.90	0	0	1.32
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	1670.37	0	1479.28	2183.00	2208.00	2209.00	2184.00
Train 2								
Planned unavailable hours	10.60	33.44	0	2.70	1.72	5.36	7.65	53.35
Unplanned unavailable hours	0	1.98	0	0	0	0	8.26	2.23
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	1670.37	0	1479.28	2183.00	2208.00	2209.00	2184.00
Train 3								
Planned unavailable hours	3.17	2.32	0	0	0	6.52	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	1816.60	0	1798.81	2183.00	2208.00	2209.00	2184.00
Train 4								
Planned unavailable hours	5.93	1.08	0	0	0	11.33	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	2183.00	1816.60	0	1798.81	2183.00	2208.00	2209.00	2184.00
Indicator value	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**

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	0.001470	0.001470	0.001440	0.001510	0.001640	0.001540	N/A	N/A	N/A	N/A	0.000753	0.000682
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**	**0.2**	**0.2**	**N/A**	**N/A**	**N/A**	**N/A**	**0.1**	**0.1**

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	0.000765	0.000792	0.000803	0.000868	0.000851	0.000887	0.000935	0.000996	0.000984	0.001020	0.001020	0.001040
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	**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	0.104	0.153	0.126	0.122	0.146	0.110	N/A	N/A	N/A	0.080	0.134	0.031
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**	**1.3**	**1.2**	**1.5**	**1.1**	**N/A**	**N/A**	**N/A**	**0.8**	**1.3**	**0.3**

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	0.068	0.079	0.072	0.115	0.064	0.078	0.124	0.028	0.062	0.024	0.051	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	**0.7**	**0.8**	**0.7**	**1.2**	**0.6**	**0.8**	**1.2**	**0.3**	**0.6**	**0.2**	**0.5**	**0.6**

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 2

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	1.0	0	0	0	0	1.0
Critical hours	1657.7	0	1434.3	2180.8	2208.0	2209.0	2184.0	1494.4
Indicator value	**1.0**	**0**	**1.3**	**1.3**	**1.2**	**0.9**	**0**	**0.9**

Licensee Comments:

2Q/04: 06-10-04 Scram occurred during a Train 'A' Reactor Protection and ESF Logic Actuation Logic Test due to an incorrect 'A' Bypass Reactor Trip Breaker cell switch contact configuration. (LER 2004-004-00)

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	1657.7	0	1434.3	2180.8	2208.0	2209.0	2184.0	1494.4
Indicator value	**0**	**0**	**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	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	9.14	0	9.13	36.01	30.54	9.80	10.16	5.49
Unplanned unavailable hours	0	0	0	0	14.10	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	1939.19	861.00	1819.64	2183.00	2208.00	2209.00	2184.00	1874.18
Train 2								
Planned unavailable hours	12.30	0	5.74	60.32	34.65	9.91	8.81	6.96
Unplanned unavailable hours	15.35	0	0	0	10.73	0	0	1.77
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1939.19	1348.00	1819.64	2183.00	2208.00	2209.00	2184.00	1874.18
Indicator value	**1.0%**	**1.0%**	**1.0%**	**1.2%**	**1.3%**	**1.2%**	**1.1%**	**0.9%**

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/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	13.68	0	3.22	2.40	6.17	7.50	3.10	4.44
Unplanned unavailable hours	0	0	8.92	0	0.55	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	1668.50	0	1474.13	2183.00	2208.00	2209.00	2184.00	1557.59
Train 2								
Planned unavailable hours	2.74	0	2.92	7.66	2.50	2.30	4.36	4.32
Unplanned unavailable hours	10.90	0	8.92	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	1668.50	0	1474.13	2183.00	2208.00	2209.00	2184.00	1557.59
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 3.46 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 4.18 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 5.38 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 7.74 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 2.89 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 3.35 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 2.54 planned, unavailable hrs. accrued during SSPS Testing. (FAQ 290)

1Q/02: Experienced 83.69 unknown T/2 fault exposure hrs. based on Cooling Water support system inoperability. Revised to incorporate 7.16 planned, unavailable hrs. accrued during SSPS Testing. (FAQ 290)

4Q/01: North Anna Unit 2 was shutdown for reactor head inspection during November 2001. Revised to incorporate 4.74 planned, unavailable hrs. accrued during SSPS Testing. (FAQ 290)

3Q/01: Revised to incorporate 3.70 planned, unavailable hrs. accrued during SSPS Testing. (FAQ 290)

2Q/01: Revised to incorporate 1.45 planned, unavailable hrs. accrued during SSPS Testing. (FAQ 290)

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	1.60	0	3.50	2.78	6.00	4.94	11.95	2.42
Unplanned unavailable hours	0	0	0	0	0	0	7.42	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	1670.37	0	1468.98	2183.00	2208.00	2209.00	2184.00	1549.82
Train 2								
Planned unavailable hours	3.28	0	1.43	11.37	3.87	12.90	11.76	0.63
Unplanned unavailable hours	0	0	0.25	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	1670.37	0	1468.98	2183.00	2208.00	2209.00	2184.00	1549.82
Train 3								

Planned unavailable hours	12.12	0	7.61	1.43	5.12	5.20	13.81	3.22
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	1666.63	0	1468.98	2183.00	2208.00	2209.00	2184.00	1549.82
Indicator value	**0.2%**	**0.2%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments:

1Q/04: Revised to incorporate 3.46 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 4.18 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 5.39 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 7.74 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 2.88 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 3.35 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 2.54 planned, unavailable hrs. accrued during SSPS Testing. (FAQ 290)

1Q/02: Revised to incorporate 7.15 planned, unavailable hrs. accrued during SSPS Testing. (FAQ 290)

4Q/01: North Anna Unit 2 was shutdown for reactor head inspection during November 2001. Revised to incorporate 4.74 planned, unavailable hrs. accrued during SSPS Testing. (FAQ 290)

3Q/01: Revised to incorporate 3.70 planned, unavailable hrs. accrued during SSPS Testing. (FAQ 290)

2Q/01: Revised to incorporate 1.45 planned, unavailable hrs. accrued during SSPS Testing. (FAQ 290)

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	33.44	0	3.36	5.02	42.66	7.19	47.88	3.85
Unplanned unavailable hours	0	0	0	28.90	0	0	1.32	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	1670.37	0	1479.28	2183.00	2208.00	2209.00	2184.00	1557.59
Train 2								
Planned unavailable hours	35.19	0	4.13	8.40	7.14	9.02	55.41	7.30
Unplanned unavailable hours	1.98	0	0	0	0	8.26	2.23	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	1670.37	0	1479.28	2183.00	2208.00	2209.00	2184.00	1557.59
Train 3								
Planned unavailable hours	2.32	0	0	0	6.52	0	0	2.25
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	1816.60	0	1798.81	2183.00	2208.00	2209.00	2184.00	1876.15
Train 4								
Planned unavailable hours	1.08	0	0	0	11.33	0	0	1.52
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	1816.60	0	1798.81	2183.00	2208.00	2209.00	2184.00	1876.15
Indicator value	**0.4%**	**0.4%**	**0.5%**	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments:

1Q/04: Revised to incorporate 3.46 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 3.98 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 5.38 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 7.73 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 2.88 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 3.35 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 2.53 planned, unavailable hrs. accrued during SSPS Testing. (FAQ 290)

1Q/02: Revised to incorporate 7.19 planned, unavailable hrs. accrued during SSPS Testing. (FAQ 290)

4Q/01: North Anna Unit 2 was shutdown for reactor head inspection during November 2001. Revised to incorporate 4.74 planned, unavailable hrs. accrued during SSPS Testing. (FAQ 290)

3Q/01: Revised to incorporate 3.70 planned, unavailable hrs. accrued during SSPS Testing. (FAQ 290)

2Q/01: Revised to incorporate 1.45 planned, unavailable hrs. accrued during SSPS Testing. (FAQ 290)

Safety System Functional Failures (PWR)

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	1

Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**

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	0.001510	0.001640	0.001540	N/A	N/A	N/A	N/A	0.000753	0.000682	0.000765	0.000792	0.000803
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**	**0.2**	**N/A**	**N/A**	**N/A**	**N/A**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

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	0.000868	0.000851	0.000887	0.000935	0.000996	0.000984	0.001020	0.001020	0.001040	0.001020	0.001030	0.000583
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	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	0.122	0.146	0.110	N/A	N/A	N/A	0.080	0.134	0.031	0.068	0.079	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	**1.2**	**1.5**	**1.1**	**N/A**	**N/A**	**N/A**	**0.8**	**1.3**	**0.3**	**0.7**	**0.8**	**0.7**
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	0.115	0.064	0.078	0.124	0.028	0.062	0.024	0.051	0.055	0.051	0.006	0.016
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	**1.2**	**0.6**	**0.8**	**1.2**	**0.3**	**0.6**	**0.2**	**0.5**	**0.6**	**0.5**	**0.1**	**0.2**

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 2

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	1.0	0	0	0	0	1.0	0
Critical hours	0	1434.3	2180.8	2208.0	2209.0	2184.0	1494.4	2208.0
Indicator value	**0**	**1.3**	**1.3**	**1.2**	**0.9**	**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	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	0	1434.3	2180.8	2208.0	2209.0	2184.0	1494.4	2208.0
Indicator value	**0**	**0**	**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	0	9.13	36.01	30.54	9.80	10.16	5.49	7.17
Unplanned unavailable hours	0	0	0	14.10	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	861.00	1819.64	2183.00	2208.00	2209.00	2184.00	1874.18	2208.00
Train 2								
Planned unavailable hours	0	5.74	60.32	34.65	9.91	8.81	6.96	18.49
Unplanned unavailable hours	0	0	0	10.73	0	0	1.77	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	1348.00	1819.64	2183.00	2208.00	2209.00	2184.00	1874.18	2208.00
Indicator value	**1.0%**	**1.0%**	**1.2%**	**1.3%**	**1.2%**	**1.1%**	**0.9%**	**0.9%**

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	0	3.22	2.40	6.17	7.50	3.10	4.44	4.32
Unplanned unavailable hours	0	8.92	0	0.55	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	0	1474.13	2183.00	2208.00	2209.00	2184.00	1557.59	2208.00
Train 2								
Planned unavailable hours	0	2.92	7.66	2.50	2.30	4.36	4.32	2.95
Unplanned unavailable hours	0	8.92	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	0	1474.13	2183.00	2208.00	2209.00	2184.00	1557.59	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, 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	0	3.50	2.78	6.00	4.94	11.95	2.42	3.85
Unplanned unavailable hours	0	0	0	0	0	7.42	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	0	1468.98	2183.00	2208.00	2209.00	2184.00	1549.82	2208.00
Train 2								
Planned unavailable hours	0	1.43	11.37	3.87	12.90	11.76	0.63	5.93
Unplanned unavailable hours	0	0.25	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	0	1468.98	2183.00	2208.00	2209.00	2184.00	1549.82	2208.00
Train 3								
Planned unavailable hours	0	7.61	1.43	5.12	5.20	13.81	3.22	3.23
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	0	1468.98	2183.00	2208.00	2209.00	2184.00	1549.82	2208.00
Indicator value	**0.2%**	**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	0	3.36	5.02	42.66	7.19	47.88	3.85	5.83
Unplanned unavailable hours	0	0	28.90	0	0	1.32	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	0	1479.28	2183.00	2208.00	2209.00	2184.00	1557.59	2208.00
Train 2								
Planned unavailable hours	0	4.13	8.40	7.14	9.02	55.41	7.30	8.70
Unplanned unavailable hours	0	0	0	0	8.26	2.23	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	0	1479.28	2183.00	2208.00	2209.00	2184.00	1557.59	2208.00
Train 3								
Planned unavailable hours	0	0	0	6.52	0	0	2.25	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	0	1798.81	2183.00	2208.00	2209.00	2184.00	1876.15	2208.00
Train 4								
Planned unavailable hours	0	0	0	11.33	0	0	1.52	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	0	1798.81	2183.00	2208.00	2209.00	2184.00	1876.15	2208.00
Indicator value	**0.4%**	**0.5%**	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments: none

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	1	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**1**

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	N/A	N/A	N/A	N/A	0.000753	0.000682	0.000765	0.000792	0.000803	0.000868	0.000851	0.000887
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**	**N/A**	**N/A**	**N/A**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.000935	0.000996	0.000984	0.001020	0.001020	0.001040	0.001020	0.001030	0.000583	0.000506	0.000581	0.000523
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	N/A	N/A	N/A	0.080	0.134	0.031	0.068	0.079	0.072	0.115	0.064	0.078
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**N/A**	**N/A**	**N/A**	**0.8**	**1.3**	**0.3**	**0.7**	**0.8**	**0.7**	**1.2**	**0.6**	**0.8**
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	0.124	0.028	0.062	0.024	0.051	0.055	0.051	0.006	0.016	0.054	0.038	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	**1.2**	**0.3**	**0.6**	**0.2**	**0.5**	**0.6**	**0.5**	**0.1**	**0.2**	**0.5**	**0.4**	**0.2**

Licensee Comments: none

Drill/Exercise Performance

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 2

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	1.0	0	0	0	0	1.0	0	0
Critical hours	1434.3	2180.8	2208.0	2209.0	2184.0	1494.4	2208.0	2209.0
Indicator value	**1.3**	**1.3**	**1.2**	**0.9**	**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	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	0
Critical hours	1434.3	2180.8	2208.0	2209.0	2184.0	1494.4	2208.0	2209.0
Indicator value	**0**	**0**	**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	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	9.13	36.01	30.54	9.80	10.16	5.49	7.17	8.05
Unplanned unavailable hours	0	0	14.10	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	1819.64	2183.00	2208.00	2209.00	2184.00	1874.18	2208.00	2209.00
Train 2								
Planned unavailable hours	5.74	60.32	34.65	9.91	8.81	6.96	18.49	4.92
Unplanned unavailable hours	0	0	10.73	0	0	1.77	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	1819.64	2183.00	2208.00	2209.00	2184.00	1874.18	2208.00	2209.00
Indicator value	**1.0%**	**1.2%**	**1.3%**	**1.2%**	**1.1%**	**0.9%**	**0.9%**	**0.7%**

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	3.22	2.40	6.17	7.50	3.10	4.44	4.32	6.18
Unplanned unavailable hours	8.92	0	0.55	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	1474.13	2183.00	2208.00	2209.00	2184.00	1557.59	2208.00	2209.00
Train 2								
Planned unavailable hours	2.92	7.66	2.50	2.30	4.36	4.32	2.95	5.30
Unplanned unavailable hours	8.92	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	1474.13	2183.00	2208.00	2209.00	2184.00	1557.59	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, 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	3.50	2.78	6.00	4.94	11.95	2.42	3.85	14.53
Unplanned unavailable hours	0	0	0	0	7.42	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	1468.98	2183.00	2208.00	2209.00	2184.00	1549.82	2208.00	2209.00
Train 2								
Planned unavailable hours	1.43	11.37	3.87	12.90	11.76	0.63	5.93	11.93
Unplanned unavailable hours	0.25	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	1468.98	2183.00	2208.00	2209.00	2184.00	1549.82	2208.00	2209.00
Train 3								
Planned unavailable hours	7.61	1.43	5.12	5.20	13.81	3.22	3.23	5.62
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	1468.98	2183.00	2208.00	2209.00	2184.00	1549.82	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/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	3.36	5.02	42.66	7.19	47.88	3.85	5.83	6.27
Unplanned unavailable hours	0	28.90	0	0	1.32	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	1479.28	2183.00	2208.00	2209.00	2184.00	1557.59	2208.00	2209.00
Train 2								
Planned unavailable hours	4.13	8.40	7.14	9.02	55.41	7.30	8.70	4.65
Unplanned unavailable hours	0	0	0	8.26	2.23	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	1479.28	2183.00	2208.00	2209.00	2184.00	1557.59	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	6.52	0	0	2.25	0	10.20
Unplanned unavailable hours	0	0	0	0	0	0	0	25.80
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1798.81	2183.00	2208.00	2209.00	2184.00	1876.15	2208.00	2209.00
Train 4								
Planned unavailable hours	0	0	11.33	0	0	1.52	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	1798.81	2183.00	2208.00	2209.00	2184.00	1876.15	2208.00	2209.00
Indicator value	**0.5%**	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

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	1	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**1**	**1**	**1**

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	N/A	0.000753	0.000682	0.000765	0.000792	0.000803	0.000868	0.000851	0.000887	0.000935	0.000996	0.000984
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**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Reactor Coolant System Activity	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**
Maximum activity	0.001020	0.001020	0.001040	0.001020	0.001030	0.000583	0.000506	0.000581	0.000523	0.000511	0.000471	0.000523
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**	**0.1**

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	0.080	0.134	0.031	0.068	0.079	0.072	0.115	0.064	0.078	0.124	0.028	0.062
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**	**1.3**	**0.3**	**0.7**	**0.8**	**0.7**	**1.2**	**0.6**	**0.8**	**1.2**	**0.3**	**0.6**
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	0.024	0.051	0.055	0.051	0.006	0.016	0.054	0.038	0.023	0.024	0.017	0.034
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**	**0.5**	**0.6**	**0.5**	**0.1**	**0.2**	**0.5**	**0.4**	**0.2**	**0.2**	**0.2**	**0.3**

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 2

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	0	0	0	0	1.0	0	0	0
Critical hours	2180.8	2208.0	2209.0	2184.0	1494.4	2208.0	2209.0	2160.0
Indicator value	**1.3**	**1.2**	**0.9**	**0**	**0.9**	**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	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	0	0
Critical hours	2180.8	2208.0	2209.0	2184.0	1494.4	2208.0	2209.0	2160.0
Indicator value	**0**	**0**	**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	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	36.01	30.54	9.80	10.16	5.49	7.17	8.05	12.42
Unplanned unavailable hours	0	14.10	0	0	0	0	0	0.70
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	2184.00	1874.18	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	60.32	34.65	9.91	8.81	6.96	18.49	4.92	7.58
Unplanned unavailable hours	0	10.73	0	0	1.77	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	2184.00	1874.18	2208.00	2209.00	2160.00
Indicator value	**1.2%**	**1.3%**	**1.2%**	**1.1%**	**0.9%**	**0.9%**	**0.7%**	**0.7%**

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	2.40	6.17	7.50	3.10	4.44	4.32	6.18	2.07
Unplanned unavailable hours	0	0.55	0	0	0	0	0	1.02
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	1557.59	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	7.66	2.50	2.30	4.36	4.32	2.95	5.30	3.83
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	2183.00	2208.00	2209.00	2184.00	1557.59	2208.00	2209.00	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/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	2.78	6.00	4.94	11.95	2.42	3.85	14.53	2.67
Unplanned unavailable hours	0	0	0	7.42	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	2208.00	2209.00	2184.00	1549.82	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	11.37	3.87	12.90	11.76	0.63	5.93	11.93	4.33
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	2208.00	2209.00	2184.00	1549.82	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	1.43	5.12	5.20	13.81	3.22	3.23	5.62	6.48
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	2184.00	1549.82	2208.00	2209.00	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	5.02	42.66	7.19	47.88	3.85	5.83	6.27	4.42
Unplanned unavailable hours	28.90	0	0	1.32	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	2184.00	1557.59	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	8.40	7.14	9.02	55.41	7.30	8.70	4.65	22.62
Unplanned unavailable hours	0	0	8.26	2.23	0	0	0	13.45
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	2208.00	2209.00	2184.00	1557.59	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	0	6.52	0	0	2.25	0	10.20	0
Unplanned unavailable hours	0	0	0	0	0	0	25.80	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	2208.00	2209.00	2184.00	1876.15	2208.00	2209.00	2160.00
Train 4								
Planned unavailable hours	0	11.33	0	0	1.52	0	0	7.02
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	2184.00	1876.15	2208.00	2209.00	2160.00
Indicator value	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

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	1	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**1**	**1**	**1**	**1**

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	0.000765	0.000792	0.000803	0.000868	0.000851	0.000887	0.000935	0.000996	0.000984	0.001020	0.001020	0.001040
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	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum activity	0.001020	0.001030	0.000583	0.000506	0.000581	0.000523	0.000511	0.000471	0.000523	0.000498	0.000527	0.000773
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**	**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	**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	0.068	0.079	0.072	0.115	0.064	0.078	0.124	0.028	0.062	0.024	0.051	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	**0.7**	**0.8**	**0.7**	**1.2**	**0.6**	**0.8**	**1.2**	**0.3**	**0.6**	**0.2**	**0.5**	**0.6**
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	0.051	0.006	0.016	0.054	0.038	0.023	0.024	0.017	0.034	0.018	0.010	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	**0.5**	**0.1**	**0.2**	**0.5**	**0.4**	**0.2**	**0.2**	**0.2**	**0.3**	**0.2**	**0.1**	**0.4**

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 2

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	1.0	0	0	0	0
Critical hours	2208.0	2209.0	2184.0	1494.4	2208.0	2209.0	2160.0	2183.0
Indicator value	**1.2**	**0.9**	**0**	**0.9**	**0.9**	**0.9**	**0.9**	**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

Unplanned Power Changes per 7000 Critical Hrs

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	0	0	0
Critical hours	2208.0	2209.0	2184.0	1494.4	2208.0	2209.0	2160.0	2183.0
Indicator value	**0**	**0**	**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	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	30.54	9.80	10.16	5.49	7.17	8.05	12.42	30.14
Unplanned unavailable hours	14.10	0	0	0	0	0	0.70	7.42
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	1874.18	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	34.65	9.91	8.81	6.96	18.49	4.92	7.58	24.07
Unplanned unavailable hours	10.73	0	0	1.77	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	1874.18	2208.00	2209.00	2160.00	2183.00
Indicator value	**1.3%**	**1.2%**	**1.1%**	**0.9%**	**0.9%**	**0.7%**	**0.7%**	**0.8%**

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	6.17	7.50	3.10	4.44	4.32	6.18	2.07	3.02
Unplanned unavailable hours	0.55	0	0	0	0	0	1.02	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	2208.00	2209.00	2184.00	1557.59	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	2.50	2.30	4.36	4.32	2.95	5.30	3.83	1.38
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	1557.59	2208.00	2209.00	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, 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	6.00	4.94	11.95	2.42	3.85	14.53	2.67	3.75
Unplanned unavailable hours	0	0	7.42	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	1549.82	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	3.87	12.90	11.76	0.63	5.93	11.93	4.33	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	2208.00	2209.00	2184.00	1549.82	2208.00	2209.00	2160.00	2183.00
Train 3								
Planned unavailable hours	5.12	5.20	13.81	3.22	3.23	5.62	6.48	3.58
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	2208.00	2209.00	2184.00	1549.82	2208.00	2209.00	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	42.66	7.19	47.88	3.85	5.83	6.27	4.42	20.04
Unplanned unavailable hours	0	0	1.32	0	0	0	0	7.27
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	1557.59	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	7.14	9.02	55.41	7.30	8.70	4.65	22.62	12.18
Unplanned unavailable hours	0	8.26	2.23	0	0	0	13.45	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	2208.00	2209.00	2184.00	1557.59	2208.00	2209.00	2160.00	2183.00
Train 3								
Planned unavailable hours	6.52	0	0	2.25	0	10.20	0	0
Unplanned unavailable hours	0	0	0	0	0	25.80	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	1876.15	2208.00	2209.00	2160.00	2183.00
Train 4								
Planned unavailable hours	11.33	0	0	1.52	0	0	7.02	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	1876.15	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

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	1	0	0	0	0
Indicator value	**0**	**0**	**0**	**1**	**1**	**1**	**1**	**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	0.000868	0.000851	0.000887	0.000935	0.000996	0.000984	0.001020	0.001020	0.001040	0.001020	0.001030	0.000583
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	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**
Maximum activity	0.000506	0.000581	0.000523	0.000511	0.000471	0.000523	0.000498	0.000527	0.000773	0.000785	0.000674	0.000641
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**	**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	**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	0.115	0.064	0.078	0.124	0.028	0.062	0.024	0.051	0.055	0.051	0.006	0.016
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	**1.2**	**0.6**	**0.8**	**1.2**	**0.3**	**0.6**	**0.2**	**0.5**	**0.6**	**0.5**	**0.1**	**0.2**
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	0.054	0.038	0.023	0.024	0.017	0.034	0.018	0.010	0.035	0.031	0.023	0.014
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.5**	**0.4**	**0.2**	**0.2**	**0.2**	**0.3**	**0.2**	**0.1**	**0.4**	**0.3**	**0.2**	**0.1**

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 2

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	1.0	0	0	0	0	1.0
Critical hours	2209.0	2184.0	1494.4	2208.0	2209.0	2160.0	2183.0	2176.4
Indicator value	**0.9**	**0**	**0.9**	**0.9**	**0.9**	**0.9**	**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	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

Unplanned Power Changes per 7000 Critical Hrs

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	0	0	0	0
Critical hours	2209.0	2184.0	1494.4	2208.0	2209.0	2160.0	2183.0	2176.4
Indicator value	**0**	**0**	**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/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	9.80	10.16	5.49	7.17	8.05	12.42	30.14	7.18
Unplanned unavailable hours	0	0	0	0	0	0.70	7.42	35.25
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	1874.18	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	9.91	8.81	6.96	18.49	4.92	7.58	24.07	5.14
Unplanned unavailable hours	0	0	1.77	0	0	0	0	40.00
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	1874.18	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**1.2%**	**1.1%**	**0.9%**	**0.9%**	**0.7%**	**0.7%**	**0.8%**	**0.9%**

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	7.50	3.10	4.44	4.32	6.18	2.07	3.02	3.88
Unplanned unavailable hours	0	0	0	0	0	1.02	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	1557.59	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	2.30	4.36	4.32	2.95	5.30	3.83	1.38	7.76
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	1557.59	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**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)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	4.94	11.95	2.42	3.85	14.53	2.67	3.75	2.99
Unplanned unavailable hours	0	7.42	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	1549.82	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	12.90	11.76	0.63	5.93	11.93	4.33	2.28	11.57
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	2209.00	2184.00	1549.82	2208.00	2209.00	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	5.20	13.81	3.22	3.23	5.62	6.48	3.58	5.67
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	2209.00	2184.00	1549.82	2208.00	2209.00	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	7.19	47.88	3.85	5.83	6.27	4.42	20.04	40.61
Unplanned unavailable hours	0	1.32	0	0	0	0	7.27	11.07
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	1557.59	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	9.02	55.41	7.30	8.70	4.65	22.62	12.18	8.50
Unplanned unavailable hours	8.26	2.23	0	0	0	13.45	0	17.98
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	1557.59	2208.00	2209.00	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	0	2.25	0	10.20	0	0	1.57
Unplanned unavailable hours	0	0	0	0	25.80	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	1876.15	2208.00	2209.00	2160.00	2183.00	2208.00
Train 4								
Planned unavailable hours	0	0	1.52	0	0	7.02	0	1.57
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	2209.00	2184.00	1876.15	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments:

3Q/05: Train 2, T/2 Fault Exposure = 1,094.44 hrs. (05-20-05 @ 5:25 am thru 08-19-05 @ 10:17 am.) due to 2-QS-P-1B breaker failure during a periodic test.

Safety System Functional Failures (PWR)

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	1	0	0	0	0	0
Indicator value	**0**	**0**	**1**	**1**	**1**	**1**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**
Maximum activity	0.000935	0.000996	0.000984	0.001020	0.001020	0.001040	0.001020	0.001030	0.000583	0.000506	0.000581	0.000523
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	0.000511	0.000471	0.000523	0.000498	0.000527	0.000773	0.000785	0.000674	0.000641	0.000690	0.000669	0.001060
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**	**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	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**
Maximum leakage	0.124	0.028	0.062	0.024	0.051	0.055	0.051	0.006	0.016	0.054	0.038	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	**1.2**	**0.3**	**0.6**	**0.2**	**0.5**	**0.6**	**0.5**	**0.1**	**0.2**	**0.5**	**0.4**	**0.2**
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	0.024	0.017	0.034	0.018	0.010	0.035	0.031	0.023	0.014	0.015	0.017	0.016
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**	**0.2**	**0.3**	**0.2**	**0.1**	**0.4**	**0.3**	**0.2**	**0.1**	**0.2**	**0.2**	**0.2**

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 2

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	1.0	0	0	0	0	1.0	0
Critical hours	2184.0	1494.4	2208.0	2209.0	2160.0	2183.0	2176.4	1531.6
Indicator value	**0**	**0.9**	**0.9**	**0.9**	**0.9**	**0**	**0.8**	**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	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	0	0	0	0	0
Critical hours	2184.0	1494.4	2208.0	2209.0	2160.0	2183.0	2176.4	1531.6
Indicator value	**0**	**0**	**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	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	10.16	5.49	7.17	8.05	12.42	30.14	7.18	6.53
Unplanned unavailable hours	0	0	0	0	0.70	7.42	35.25	29.27
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	1874.18	2208.00	2209.00	2160.00	2183.00	2208.00	1890.91
Train 2								
Planned unavailable hours	8.81	6.96	18.49	4.92	7.58	24.07	5.14	4.29
Unplanned unavailable hours	0	1.77	0	0	0	0	40.00	43.46
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	1874.18	2208.00	2209.00	2160.00	2183.00	2208.00	1890.91
Indicator value	**1.1%**	**0.9%**	**0.9%**	**0.7%**	**0.7%**	**0.8%**	**0.9%**	**1.1%**

Licensee Comments:

4Q/05: 6,093 - T/2 fault exposure hrs. evaluated against EDG - 2-EE-EG-2J, due to a vent line oil leak on the 3/8-inch copper piping associated with the lube oil filter which occurred 11 hrs. into a 24 hr. Periodic Test.. This condition was determined to be due to improper design / construction of piping supports installed on the EDG skid supplied by the vendor which was promptly resolved.

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	3.10	4.44	4.32	6.18	2.07	3.02	3.88	1.37
Unplanned unavailable hours	0	0	0	0	1.02	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	1557.59	2208.00	2209.00	2160.00	2183.00	2208.00	1567.18
Train 2								
Planned unavailable hours	4.36	4.32	2.95	5.30	3.83	1.38	7.76	1.45
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	2184.00	1557.59	2208.00	2209.00	2160.00	2183.00	2208.00	1567.18
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.2%**	**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)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	11.95	2.42	3.85	14.53	2.67	3.75	2.99	1.74
Unplanned unavailable hours	7.42	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	1549.82	2208.00	2209.00	2160.00	2183.00	2208.00	1561.53
Train 2								
Planned unavailable hours	11.76	0.63	5.93	11.93	4.33	2.28	11.57	1.65
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	1549.82	2208.00	2209.00	2160.00	2183.00	2208.00	1561.53
Train 3								
Planned unavailable hours	13.81	3.22	3.23	5.62	6.48	3.58	5.67	6.35
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	2184.00	1549.82	2208.00	2209.00	2160.00	2183.00	2208.00	1561.53
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	47.88	3.85	5.83	6.27	4.42	20.04	40.61	2.40
Unplanned unavailable hours	1.32	0	0	0	0	7.27	11.07	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	1557.59	2208.00	2209.00	2160.00	2183.00	2208.00	1572.82
Train 2								
Planned unavailable hours	55.41	7.30	8.70	4.65	22.62	12.18	8.50	5.49
Unplanned unavailable hours	2.23	0	0	0	13.45	0	17.98	0.85
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	1557.59	2208.00	2209.00	2160.00	2183.00	2208.00	1572.82
Train 3								
Planned unavailable hours	0	2.25	0	10.20	0	0	1.57	2.72
Unplanned unavailable hours	0	0	0	25.80	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	1876.15	2208.00	2209.00	2160.00	2183.00	2208.00	1924.21
Train 4								
Planned unavailable hours	0	1.52	0	0	7.02	0	1.57	1.90
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	1876.15	2208.00	2209.00	2160.00	2183.00	2208.00	1924.21
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

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	1	0	0	0	0	0	0
Indicator value	**0**	**1**	**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	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**
Maximum activity	0.001020	0.001020	0.001040	0.001020	0.001030	0.000583	0.000506	0.000581	0.000523	0.000511	0.000471	0.000523
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**	**0.1**

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	0.000498	0.000527	0.000773	0.000785	0.000674	0.000641	0.000690	0.000669	0.001060	N/A	0.000262	0.000308
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**	**N/A**	**0**	**0**

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	0.024	0.051	0.055	0.051	0.006	0.016	0.054	0.038	0.023	0.024	0.017	0.034
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**	**0.5**	**0.6**	**0.5**	**0.1**	**0.2**	**0.5**	**0.4**	**0.2**	**0.2**	**0.2**	**0.3**
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	0.018	0.010	0.035	0.031	0.023	0.014	0.015	0.017	0.016	0.020	0.026	0.073
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**	**0.1**	**0.4**	**0.3**	**0.2**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.7**

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 2

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	1.0	0	0	0	0	1.0	0	0
Critical hours	1494.4	2208.0	2209.0	2160.0	2183.0	2176.4	1531.6	2160.0
Indicator value	**0.9**	**0.9**	**0.9**	**0.9**	**0**	**0.8**	**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	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

Unplanned Power Changes per 7000 Critical Hrs

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	0	0	0	0	0	0
Critical hours	1494.4	2208.0	2209.0	2160.0	2183.0	2176.4	1531.6	2160.0
Indicator value	**0**	**0**	**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	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	5.49	7.17	8.05	12.42	30.14	7.18	6.53	23.25
Unplanned unavailable hours	0	0	0	0.70	7.42	35.25	29.27	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	1874.18	2208.00	2209.00	2160.00	2183.00	2208.00	1890.91	2160.00
Train 2								
Planned unavailable hours	6.96	18.49	4.92	7.58	24.07	5.14	4.29	7.29
Unplanned unavailable hours	1.77	0	0	0	0	40.00	43.46	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	1874.18	2208.00	2209.00	2160.00	2183.00	2208.00	1890.91	2160.00
Indicator value	**0.9%**	**0.9%**	**0.7%**	**0.7%**	**0.8%**	**0.9%**	**1.1%**	**1.1%**

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	4.44	4.32	6.18	2.07	3.02	3.88	1.37	3.70
Unplanned unavailable hours	0	0	0	1.02	0	0	0	1.40
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1557.59	2208.00	2209.00	2160.00	2183.00	2208.00	1567.18	2160.00
Train 2								
Planned unavailable hours	4.32	2.95	5.30	3.83	1.38	7.76	1.45	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	1557.59	2208.00	2209.00	2160.00	2183.00	2208.00	1567.18	2160.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.2%**	**0.2%**	**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	2.42	3.85	14.53	2.67	3.75	2.99	1.74	2.30
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	1549.82	2208.00	2209.00	2160.00	2183.00	2208.00	1561.53	2160.00
Train 2								
Planned unavailable hours	0.63	5.93	11.93	4.33	2.28	11.57	1.65	5.85
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	1549.82	2208.00	2209.00	2160.00	2183.00	2208.00	1561.53	2160.00
Train 3								
Planned unavailable hours	3.22	3.23	5.62	6.48	3.58	5.67	6.35	5.45
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	1549.82	2208.00	2209.00	2160.00	2183.00	2208.00	1561.53	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/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Train 1								
Planned unavailable hours	3.85	5.83	6.27	4.42	20.04	40.61	2.40	6.20
Unplanned unavailable hours	0	0	0	0	7.27	11.07	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	1557.59	2208.00	2209.00	2160.00	2183.00	2208.00	1572.82	2160.00
Train 2								
Planned unavailable hours	7.30	8.70	4.65	22.62	12.18	8.50	5.49	21.58
Unplanned unavailable hours	0	0	0	13.45	0	17.98	0.85	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	1557.59	2208.00	2209.00	2160.00	2183.00	2208.00	1572.82	2160.00
Train 3								
Planned unavailable hours	2.25	0	10.20	0	0	1.57	2.72	0
Unplanned unavailable hours	0	0	25.80	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	1876.15	2208.00	2209.00	2160.00	2183.00	2208.00	1924.21	2160.00
Train 4								
Planned unavailable hours	1.52	0	0	7.02	0	1.57	1.90	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	1876.15	2208.00	2209.00	2160.00	2183.00	2208.00	1924.21	2160.00
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

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	1	0	0	0	0	0	0	0
Indicator value	**1**	**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	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum activity	0.001020	0.001030	0.000583	0.000506	0.000581	0.000523	0.000511	0.000471	0.000523	0.000498	0.000527	0.000773
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**	**0.1**	**0**	**0.1**	**0.1**

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	0.000785	0.000674	0.000641	0.000690	0.000669	0.001060	N/A	0.000262	0.000308	0.000274	0.000412	0.000329
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**	**N/A**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum leakage	0.051	0.006	0.016	0.054	0.038	0.023	0.024	0.017	0.034	0.018	0.010	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	**0.5**	**0.1**	**0.2**	**0.5**	**0.4**	**0.2**	**0.2**	**0.2**	**0.3**	**0.2**	**0.1**	**0.4**
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	0.031	0.023	0.014	0.015	0.017	0.016	0.020	0.026	0.073	0.011	0.046	0.021
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**	**0.2**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.7**	**0.1**	**0.5**	**0.2**

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 2

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	1.0	0	0	0
Critical hours	2208.0	2209.0	2160.0	2183.0	2176.4	1531.6	2160.0	2183.0
Indicator value	**0.9**	**0.9**	**0.9**	**0**	**0.8**	**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	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	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2160.0	2183.0	2176.4	1531.6	2160.0	2183.0
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/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	**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	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								2.50E-08
URI (ΔCDF)								-1.40E-07
PLE								NO
Indicator value								**-1.15E-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)								-2.10E-08
URI (ΔCDF)								1.00E-07
PLE								NO
Indicator value								**7.90E-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)								-2.00E-08
URI (ΔCDF)								-3.80E-08
PLE								NO
Indicator value								**-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/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								7.80E-09
URI (ΔCDF)								-7.40E-09
PLE								NO
Indicator value								**4.00E-10**

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)								8.60E-10
URI (ΔCDF)								4.30E-08
PLE								NO
Indicator value								**4.39E-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	0.000506	0.000581	0.000523	0.000511	0.000471	0.000523	0.000498	0.000527	0.000773	0.000785	0.000674	0.000641
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**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

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	0.000690	0.000669	0.001060	N/A	0.000262	0.000308	0.000274	0.000412	0.000329	0.000353	0.000357	0.000364
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**	**N/A**	**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	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**
Maximum leakage	0.054	0.038	0.023	0.024	0.017	0.034	0.018	0.010	0.035	0.031	0.023	0.014
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.5**	**0.4**	**0.2**	**0.2**	**0.2**	**0.3**	**0.2**	**0.1**	**0.4**	**0.3**	**0.2**	**0.1**
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	0.015	0.017	0.016	0.020	0.026	0.073	0.011	0.046	0.021	0.033	0.102	0.216
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**	**0.2**	**0.2**	**0.2**	**0.3**	**0.7**	**0.1**	**0.5**	**0.2**	**0.3**	**1.0**	**2.2**

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

ERO Drill Participation

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

North Anna 2

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	1.0	0	0	0	0
Critical hours	2209.0	2160.0	2183.0	2176.4	1531.6	2160.0	2183.0	2208.0
Indicator value	**0.9**	**0.9**	**0**	**0.8**	**0.9**	**0.9**	**0.9**	**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	0	0	0	0	0	0	0	0
Critical hours	2209.0	2160.0	2183.0	2176.4	1531.6	2160.0	2183.0	2208.0
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)	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	**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	**4Q/04**	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**
UAI (ΔCDF)							2.50E-08	1.90E-08
URI (ΔCDF)							-1.40E-07	-1.40E-07
PLE							NO	NO
Indicator value							**-1.15E-07**	**-1.21E-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)							-2.10E-08	-2.10E-08
URI (ΔCDF)							1.00E-07	9.60E-08
PLE							NO	NO
Indicator value							**7.90E-08**	**7.50E-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)							-2.00E-08	-1.90E-08
URI (ΔCDF)							-3.80E-08	-3.80E-08
PLE							NO	NO
Indicator value							**-5.80E-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)							7.80E-09	1.00E-08
URI (ΔCDF)							-7.40E-09	-7.40E-09
PLE							NO	NO
Indicator value							**4.00E-10**	**2.60E-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	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
UAI (ΔCDF)							8.60E-10	8.60E-10
URI (ΔCDF)							4.30E-08	4.30E-08
PLE							NO	NO
Indicator value							**4.39E-08**	**4.39E-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	0.000511	0.000471	0.000523	0.000498	0.000527	0.000773	0.000785	0.000674	0.000641	0.000690	0.000669	0.001060
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**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

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	N/A	0.000262	0.000308	0.000274	0.000412	0.000329	0.000353	0.000357	0.000364	0.000359	0.000386	0.000431
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**	**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	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**
Maximum leakage	0.024	0.017	0.034	0.018	0.010	0.035	0.031	0.023	0.014	0.015	0.017	0.016
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**	**0.2**	**0.3**	**0.2**	**0.1**	**0.4**	**0.3**	**0.2**	**0.1**	**0.2**	**0.2**	**0.2**
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	0.020	0.026	0.073	0.011	0.046	0.021	0.033	0.102	0.216	0.330	0.520	0.675
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**	**0.3**	**0.7**	**0.1**	**0.5**	**0.2**	**0.3**	**1.0**	**2.2**	**3.3**	**5.2**	**6.8**

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

North Anna 2

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	1.0	0	0	0	0	1.0
Critical hours	2160.0	2183.0	2176.4	1531.6	2160.0	2183.0	2208.0	2184.7
Indicator value	**0.9**	**0**	**0.8**	**0.9**	**0.9**	**0.9**	**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	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	0	0	0	0	0	0
Critical hours	2160.0	2183.0	2176.4	1531.6	2160.0	2183.0	2208.0	2184.7
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)	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	**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	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**
UAI (ΔCDF)						2.50E-08	1.90E-08	1.90E-08
URI (ΔCDF)						-1.40E-07	-1.40E-07	-1.40E-07
PLE						NO	NO	NO
Indicator value						**-1.15E-07**	**-1.21E-07**	**-1.21E-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)						-2.10E-08	-2.10E-08	-2.10E-08
URI (ΔCDF)						1.00E-07	9.20E-08	9.10E-08
PLE						NO	NO	NO
Indicator value						**7.90E-08**	**7.10E-08**	**7.00E-08**

Licensee Comments:

4Q/06: Estimated 3Q/06 HPSI test demands revised from 7 to 16 resulting in a more conservative 9.6E-08 to 9.1E-08 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)						-2.00E-08	-1.90E-08	-2.00E-08
URI (ΔCDF)						-3.80E-08	-3.80E-08	-4.20E-08
PLE						NO	NO	NO
Indicator value						**-5.80E-08**	**-5.70E-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/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**
UAI (ΔCDF)						7.80E-09	1.00E-08	8.50E-09
URI (ΔCDF)						-7.40E-09	-7.40E-09	-7.40E-09
PLE						NO	NO	NO
Indicator value						**4.00E-10**	**2.60E-09**	**1.10E-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/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						8.60E-10	8.60E-10	8.60E-10
URI (ΔCDF)						4.30E-08	4.30E-08	4.50E-08
PLE						NO	NO	NO
Indicator value						**4.39E-08**	**4.39E-08**	**4.59E-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	0.000498	0.000527	0.000773	0.000785	0.000674	0.000641	0.000690	0.000669	0.001060	N/A	0.000262	0.000308
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**	**N/A**	**0**	**0**

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	0.000274	0.000412	0.000329	0.000353	0.000357	0.000364	0.000359	0.000386	0.000431	0.000457	0.000487	0.000540
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	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**	**10/05**	**11/05**	**12/05**
Maximum leakage	0.018	0.010	0.035	0.031	0.023	0.014	0.015	0.017	0.016	0.020	0.026	0.073
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**	**0.1**	**0.4**	**0.3**	**0.2**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.7**
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	0.011	0.046	0.021	0.033	0.102	0.216	0.330	0.520	0.675	0.571	0.550	0.269
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**	**0.5**	**0.2**	**0.3**	**1.0**	**2.2**	**3.3**	**5.2**	**6.8**	**5.7**	**5.5**	**2.7**

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.

North Anna 2

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	1.0	0	0	0	0	1.0	0
Critical hours	2183.0	2176.4	1531.6	2160.0	2183.0	2208.0	2184.7	1823.8
Indicator value	**0**	**0.8**	**0.9**	**0.9**	**0.9**	**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	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	0	0	0	0	0	0	1.0
Critical hours	2183.0	2176.4	1531.6	2160.0	2183.0	2208.0	2184.7	1823.8
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.8**

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)					2.50E-08	1.90E-08	1.90E-08	1.90E-08
URI (ΔCDF)					-1.40E-07	-1.40E-07	-1.40E-07	-1.60E-07
PLE					NO	NO	NO	NO
Indicator value					**-1.15E-07**	**-1.21E-07**	**-1.21E-07**	**-1.41E-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)					-2.10E-08	-2.10E-08	-2.10E-08	-2.00E-08
URI (ΔCDF)					1.00E-07	9.20E-08	9.10E-08	9.10E-08
PLE					NO	NO	NO	NO
Indicator value					**7.90E-08**	**7.10E-08**	**7.00E-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	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					-2.00E-08	-1.90E-08	-2.00E-08	-2.30E-08
URI (ΔCDF)					-3.80E-08	-3.80E-08	-4.20E-08	-4.20E-08
PLE					NO	NO	NO	NO
Indicator value					**-5.80E-08**	**-5.70E-08**	**-6.20E-08**	**-6.50E-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	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					7.80E-09	1.00E-08	8.50E-09	8.00E-09
URI (ΔCDF)					-7.40E-09	-7.40E-09	-7.40E-09	-7.70E-09
PLE					NO	NO	NO	NO
Indicator value					**4.00E-10**	**2.60E-09**	**1.10E-09**	**3.00E-10**

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)					8.60E-10	8.60E-10	8.60E-10	9.00E-10
URI (ΔCDF)					4.30E-08	4.30E-08	4.50E-08	-2.00E-08
PLE					NO	NO	NO	NO
Indicator value					**4.39E-08**	**4.39E-08**	**4.59E-08**	**-1.91E-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	0.000785	0.000674	0.000641	0.000690	0.000669	0.001060	N/A	0.000262	0.000308	0.000274	0.000412	0.000329
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**	**N/A**	**0**	**0**	**0**	**0**	**0**

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	0.000353	0.000357	0.000364	0.000359	0.000386	0.000431	0.000457	0.000487	0.000540	0.000541	0.000548	0.000797
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	**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	0.031	0.023	0.014	0.015	0.017	0.016	0.020	0.026	0.073	0.011	0.046	0.021
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**	**0.2**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.7**	**0.1**	**0.5**	**0.2**
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	0.033	0.102	0.216	0.330	0.520	0.675	0.571	0.550	0.269	0.483	0.477	0.402
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**	**1.0**	**2.2**	**3.3**	**5.2**	**6.8**	**5.7**	**5.5**	**2.7**	**4.8**	**4.8**	**4.0**

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 2

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	1.0	0	0	0	0	1.0	0	1.0
Critical hours	2176.4	1531.6	2160.0	2183.0	2208.0	2184.7	1823.8	1674.4
Indicator value	**0.8**	**0.9**	**0.9**	**0.9**	**0**	**0.8**	**0.8**	**1.8**

Licensee Comments:

2Q/07: 06-29-07: U-2 Auto. Scram due to spurious Train "B" Safety Injection relay actuation.

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	1.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1.0**

Licensee Comments:

2Q/07: 06-29-07: U-2 Auto. Scram due to a spurious SI which resulted in a trip of all Feedwater pumps.

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	0	0	0	0	0	0	1.0	1.0
Critical hours	2176.4	1531.6	2160.0	2183.0	2208.0	2184.7	1823.8	1674.4
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.8**	**1.8**

Licensee Comments:

2Q/07: Unit ramped to 58% power on 05-31-07 to perform a steam leak repair on U2 "D" MSR intercept valve.

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	1
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1**

Licensee Comments:

2Q/07: LER 07-001-00, dated 04-27-07: Power Reduction due to Unit-2 damper leak-by during PREACS Testing

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)				2.50E-08	1.90E-08	1.90E-08	2.00E-08	1.90E-08
URI (ΔCDF)				-1.40E-07	-1.40E-07	-1.40E-07	9.00E-09	-9.50E-10
PLE				NO	NO	NO	NO	NO
Indicator value				**-1.15E-07**	**-1.21E-07**	**-1.21E-07**	**2.90E-08**	**1.81E-08**

Licensee Comments:

2Q/07: UAI 1.9E-08 / URI -1.6E-07/0 for March '07 revised to: UAI 2.0E-08 / URI 9.0E-09/0 as a result of 1.95 hours unplanned unavailability charged against U-2 Train-2 EDG on 03-18-07 due to lifting an incorrect lead during 2-PT-83.4.1.

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)				-2.10E-08	-2.10E-08	-2.10E-08	-2.00E-08	-2.00E-08
URI (ΔCDF)				1.00E-07	9.20E-08	9.10E-08	9.10E-08	9.00E-08
PLE				NO	NO	NO	NO	NO
Indicator value				**7.90E-08**	**7.10E-08**	**7.00E-08**	**7.10E-08**	**7.00E-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)				-2.00E-08	-1.90E-08	-2.00E-08	-2.30E-08	-2.20E-08
URI (ΔCDF)				-3.80E-08	-3.80E-08	-4.20E-08	-4.20E-08	-4.20E-08
PLE				NO	NO	NO	NO	NO
Indicator value				**-5.80E-08**	**-5.70E-08**	**-6.20E-08**	**-6.50E-08**	**-6.40E-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	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				7.80E-09	1.00E-08	8.50E-09	8.00E-09	1.00E-08
URI (ΔCDF)				-7.40E-09	-7.40E-09	-7.40E-09	-7.70E-09	-7.50E-09
PLE				NO	NO	NO	NO	NO
Indicator value				**4.00E-10**	**2.60E-09**	**1.10E-09**	**3.00E-10**	**2.50E-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/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				8.60E-10	8.60E-10	8.60E-10	9.00E-10	1.10E-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				**4.39E-08**	**4.39E-08**	**4.59E-08**	**-1.91E-08**	**-1.89E-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	0.000690	0.000669	0.001060	N/A	0.000262	0.000308	0.000274	0.000412	0.000329	0.000353	0.000357	0.000364
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**	**N/A**	**0**	**0**	**0**	**0**	**0**	**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	0.000359	0.000386	0.000431	0.000457	0.000487	0.000540	0.000541	0.000548	0.000797	0.000183	0.000284	0.000294
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**	**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	0.015	0.017	0.016	0.020	0.026	0.073	0.011	0.046	0.021	0.033	0.102	0.216
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**	**0.2**	**0.2**	**0.2**	**0.3**	**0.7**	**0.1**	**0.5**	**0.2**	**0.3**	**1.0**	**2.2**
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	0.330	0.520	0.675	0.571	0.550	0.269	0.483	0.477	0.402	0.157	0.018	0.019
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**	**5.2**	**6.8**	**5.7**	**5.5**	**2.7**	**4.8**	**4.8**	**4.0**	**1.6**	**0.2**	**0.2**

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 2

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	1.0	0	1.0	0
Critical hours	1531.6	2160.0	2183.0	2208.0	2184.7	1823.8	1674.4	2022.2
Indicator value	**0.9**	**0.9**	**0.9**	**0**	**0.8**	**0.8**	**1.8**	**1.8**

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	0	0	0	0	1.0	1.0	0
Critical hours	1531.6	2160.0	2183.0	2208.0	2184.7	1823.8	1674.4	2022.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.8**	**1.8**	**1.8**

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	1.0	0
Indicator value								**1.0**

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	1	1
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**2**

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)			2.50E-08	1.90E-08	1.90E-08	2.00E-08	1.90E-08	1.90E-08
URI (ΔCDF)			-1.40E-07	-1.40E-07	-1.40E-07	9.00E-09	-9.50E-10	-9.50E-10
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-1.15E-07**	**-1.21E-07**	**-1.21E-07**	**2.90E-08**	**1.81E-08**	**1.81E-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/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			-2.10E-08	-2.10E-08	-2.10E-08	-2.00E-08	-2.00E-08	-2.00E-08
URI (ΔCDF)			1.00E-07	9.20E-08	9.10E-08	9.10E-08	9.00E-08	9.00E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**7.90E-08**	**7.10E-08**	**7.00E-08**	**7.10E-08**	**7.00E-08**	**7.00E-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)			-2.00E-08	-1.90E-08	-2.00E-08	-2.30E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)			-3.80E-08	-3.80E-08	-4.20E-08	-4.20E-08	-4.20E-08	-4.20E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-5.80E-08**	**-5.70E-08**	**-6.20E-08**	**-6.50E-08**	**-6.40E-08**	**-6.40E-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/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			7.80E-09	1.00E-08	8.50E-09	8.00E-09	1.00E-08	1.00E-08
URI (ΔCDF)			-7.40E-09	-7.40E-09	-7.40E-09	-7.70E-09	-7.50E-09	-7.50E-09
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**4.00E-10**	**2.60E-09**	**1.10E-09**	**3.00E-10**	**2.50E-09**	**2.50E-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/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			8.60E-10	8.60E-10	8.60E-10	9.00E-10	1.10E-09	1.90E-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			**4.39E-08**	**4.39E-08**	**4.59E-08**	**-1.91E-08**	**-1.89E-08**	**-1.81E-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	N/A	0.000262	0.000308	0.000274	0.000412	0.000329	0.000353	0.000357	0.000364	0.000359	0.000386	0.000431
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**	**0**	**0**	**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	0.000457	0.000487	0.000540	0.000541	0.000548	0.000797	0.000183	0.000284	0.000294	0.000265	0.000297	0.000322
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**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**
Maximum leakage	0.020	0.026	0.073	0.011	0.046	0.021	0.033	0.102	0.216	0.330	0.520	0.675
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**	**0.3**	**0.7**	**0.1**	**0.5**	**0.2**	**0.3**	**1.0**	**2.2**	**3.3**	**5.2**	**6.8**
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	0.571	0.550	0.269	0.483	0.477	0.402	0.157	0.018	0.019	0.045	0.051	0.042
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	**5.7**	**5.5**	**2.7**	**4.8**	**4.8**	**4.0**	**1.6**	**0.2**	**0.2**	**0.5**	**0.5**	**0.4**

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

North Anna 2

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	1.0	0	1.0	0	1.0
Critical hours	2160.0	2183.0	2208.0	2184.7	1823.8	1674.4	2022.2	2062.2
Indicator value	**0.9**	**0.9**	**0**	**0.8**	**0.8**	**1.8**	**1.8**	**1.8**

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	0	0	0	0	1.0	1.0	0	0
Critical hours	2160.0	2183.0	2208.0	2184.7	1823.8	1674.4	2022.2	2062.2
Indicator value	**0**	**0**	**0**	**0**	**0.8**	**1.8**	**1.8**	**1.8**

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	1.0	0	0
Indicator value							**1.0**	**1.0**

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	1	1	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**1**	**2**	**2**

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)		2.50E-08	1.90E-08	1.90E-08	2.00E-08	1.90E-08	1.90E-08	2.00E-08
URI (ΔCDF)		-1.40E-07	-1.40E-07	-1.40E-07	9.00E-09	-9.50E-10	-9.50E-10	-9.50E-10
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-1.15E-07**	**-1.21E-07**	**-1.21E-07**	**2.90E-08**	**1.81E-08**	**1.81E-08**	**1.91E-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/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		-2.10E-08	-2.10E-08	-2.10E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08
URI (ΔCDF)		1.00E-07	9.20E-08	9.10E-08	9.10E-08	9.00E-08	9.00E-08	9.00E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**7.90E-08**	**7.10E-08**	**7.00E-08**	**7.10E-08**	**7.00E-08**	**7.00E-08**	**7.00E-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)		-2.00E-08	-1.90E-08	-2.00E-08	-2.30E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)		-3.80E-08	-3.80E-08	-4.20E-08	-4.20E-08	-4.20E-08	-4.20E-08	1.50E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-5.80E-08**	**-5.70E-08**	**-6.20E-08**	**-6.50E-08**	**-6.40E-08**	**-6.40E-08**	**1.28E-07**

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)		7.80E-09	1.00E-08	8.50E-09	8.00E-09	1.00E-08	1.00E-08	1.00E-08
URI (ΔCDF)		-7.40E-09	-7.40E-09	-7.40E-09	-7.70E-09	-7.50E-09	-7.50E-09	-7.50E-09
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**4.00E-10**	**2.60E-09**	**1.10E-09**	**3.00E-10**	**2.50E-09**	**2.50E-09**	**2.50E-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	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		8.60E-10	8.60E-10	8.60E-10	9.00E-10	1.10E-09	1.90E-09	1.90E-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		**4.39E-08**	**4.39E-08**	**4.59E-08**	**-1.91E-08**	**-1.89E-08**	**-1.81E-08**	**-1.81E-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	0.000274	0.000412	0.000329	0.000353	0.000357	0.000364	0.000359	0.000386	0.000431	0.000457	0.000487	0.000540
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	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**	**7/07**	**8/07**	**9/07**	**10/07**	**11/07**	**12/07**
Maximum activity	0.000541	0.000548	0.000797	0.000183	0.000284	0.000294	0.000265	0.000297	0.000322	0.000330	0.000387	0.000376
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	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**
Maximum leakage	0.011	0.046	0.021	0.033	0.102	0.216	0.330	0.520	0.675	0.571	0.550	0.269
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**	**0.5**	**0.2**	**0.3**	**1.0**	**2.2**	**3.3**	**5.2**	**6.8**	**5.7**	**5.5**	**2.7**
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	0.483	0.477	0.402	0.157	0.018	0.019	0.045	0.051	0.042	0.039	0.029	0.030
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	**4.8**	**4.8**	**4.0**	**1.6**	**0.2**	**0.2**	**0.5**	**0.5**	**0.4**	**0.4**	**0.3**	**0.3**

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

North Anna 2

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	1.0	0	1.0	0	1.0	0
Critical hours	2183.0	2208.0	2184.7	1823.8	1674.4	2022.2	2062.2	1982.9
Indicator value	**0.9**	**0**	**0.8**	**0.8**	**1.8**	**1.8**	**1.8**	**1.8**

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	1.0	1.0	0	0	0
Critical hours	2183.0	2208.0	2184.7	1823.8	1674.4	2022.2	2062.2	1982.9
Indicator value	**0**	**0**	**0**	**0.8**	**1.8**	**1.8**	**1.8**	**0.9**

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	1.0	0	0	0
Indicator value						**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/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Safety System Functional Failures	0	0	0	0	1	1	0	0
Indicator value	**0**	**0**	**0**	**0**	**1**	**2**	**2**	**2**

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)	2.50E-08	1.90E-08	1.90E-08	2.00E-08	1.90E-08	1.90E-08	2.00E-08	2.00E-08
URI (ΔCDF)	-1.40E-07	-1.40E-07	-1.40E-07	9.00E-09	-9.50E-10	-9.50E-10	-9.50E-10	-9.50E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.15E-07**	**-1.21E-07**	**-1.21E-07**	**2.90E-08**	**1.81E-08**	**1.81E-08**	**1.91E-08**	**1.91E-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/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	-2.10E-08	-2.10E-08	-2.10E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.10E-08
URI (ΔCDF)	1.00E-07	9.20E-08	9.10E-08	9.10E-08	9.00E-08	9.00E-08	9.00E-08	8.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.90E-08**	**7.10E-08**	**7.00E-08**	**7.10E-08**	**7.00E-08**	**7.00E-08**	**7.00E-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/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	-2.00E-08	-1.90E-08	-2.00E-08	-2.30E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-3.80E-08	-3.80E-08	-4.20E-08	-4.20E-08	-4.20E-08	-4.20E-08	1.50E-07	1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.80E-08**	**-5.70E-08**	**-6.20E-08**	**-6.50E-08**	**-6.40E-08**	**-6.40E-08**	**1.28E-07**	**1.28E-07**

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)	7.80E-09	1.00E-08	8.50E-09	8.00E-09	1.00E-08	1.00E-08	1.00E-08	7.90E-09
URI (ΔCDF)	-7.40E-09	-7.40E-09	-7.40E-09	-7.70E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.00E-10**	**2.60E-09**	**1.10E-09**	**3.00E-10**	**2.50E-09**	**2.50E-09**	**2.50E-09**	**4.00E-10**

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)	8.60E-10	8.60E-10	8.60E-10	9.00E-10	1.10E-09	1.90E-09	1.90E-09	1.50E-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	**4.39E-08**	**4.39E-08**	**4.59E-08**	**-1.91E-08**	**-1.89E-08**	**-1.81E-08**	**-1.81E-08**	**-1.05E-08**

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	0.000353	0.000357	0.000364	0.000359	0.000386	0.000431	0.000457	0.000487	0.000540	0.000541	0.000548	0.000797
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	**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	0.000183	0.000284	0.000294	0.000265	0.000297	0.000322	0.000330	0.000387	0.000376	0.000424	0.000418	0.000574
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	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**
Maximum leakage	0.033	0.102	0.216	0.330	0.520	0.675	0.571	0.550	0.269	0.483	0.477	0.402
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**	**1.0**	**2.2**	**3.3**	**5.2**	**6.8**	**5.7**	**5.5**	**2.7**	**4.8**	**4.8**	**4.0**
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	0.157	0.018	0.019	0.045	0.051	0.042	0.039	0.029	0.030	0.011	0.033	0.040
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**	**0.2**	**0.2**	**0.5**	**0.5**	**0.4**	**0.4**	**0.3**	**0.3**	**0.1**	**0.3**	**0.4**

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

North Anna 2

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	1.0	0	1.0	0	1.0	0	0
Critical hours	2208.0	2184.7	1823.8	1674.4	2022.2	2062.2	1982.9	2184.0
Indicator value	**0**	**0.8**	**0.8**	**1.8**	**1.8**	**1.8**	**1.8**	**0.8**

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	1.0	1.0	0	0	0	0
Critical hours	2208.0	2184.7	1823.8	1674.4	2022.2	2062.2	1982.9	2184.0
Indicator value	**0**	**0**	**0.8**	**1.8**	**1.8**	**1.8**	**0.9**	**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	1.0	0	0	0	0
Indicator value					**1.0**	**1.0**	**1.0**	**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	1	1	0	0	0
Indicator value	**0**	**0**	**0**	**1**	**2**	**2**	**2**	**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/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	1.90E-08	1.90E-08	2.00E-08	1.90E-08	1.90E-08	2.00E-08	2.00E-08	4.60E-08
URI (ΔCDF)	-1.40E-07	-1.40E-07	9.00E-09	-9.50E-10	-9.50E-10	-9.50E-10	-9.50E-10	2.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.21E-07**	**-1.21E-07**	**2.90E-08**	**1.81E-08**	**1.81E-08**	**1.91E-08**	**1.91E-08**	**2.56E-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)	-2.10E-08	-2.10E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.10E-08	-2.10E-08
URI (ΔCDF)	9.20E-08	9.10E-08	9.10E-08	9.00E-08	9.00E-08	9.00E-08	8.90E-08	6.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.10E-08**	**7.00E-08**	**7.10E-08**	**7.00E-08**	**7.00E-08**	**7.00E-08**	**6.80E-08**	**4.30E-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/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	-1.90E-08	-2.00E-08	-2.30E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-3.80E-08	-4.20E-08	-4.20E-08	-4.20E-08	-4.20E-08	1.50E-07	1.50E-07	1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.70E-08**	**-6.20E-08**	**-6.50E-08**	**-6.40E-08**	**-6.40E-08**	**1.28E-07**	**1.28E-07**	**1.28E-07**

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)	1.00E-08	8.50E-09	8.00E-09	1.00E-08	1.00E-08	1.00E-08	7.90E-09	6.50E-09
URI (ΔCDF)	-7.40E-09	-7.40E-09	-7.70E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.60E-09**	**1.10E-09**	**3.00E-10**	**2.50E-09**	**2.50E-09**	**2.50E-09**	**4.00E-10**	**-1.00E-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/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**
UAI (ΔCDF)	8.60E-10	8.60E-10	9.00E-10	1.10E-09	1.90E-09	1.90E-09	1.50E-09	-1.00E-10
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	**4.39E-08**	**4.59E-08**	**-1.91E-08**	**-1.89E-08**	**-1.81E-08**	**-1.81E-08**	**-1.05E-08**	**-1.21E-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	0.000359	0.000386	0.000431	0.000457	0.000487	0.000540	0.000541	0.000548	0.000797	0.000183	0.000284	0.000294
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**	**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	0.000265	0.000297	0.000322	0.000330	0.000387	0.000376	0.000424	0.000418	0.000574	0.000488	0.000489	0.000510
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	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	0.330	0.520	0.675	0.571	0.550	0.269	0.483	0.477	0.402	0.157	0.018	0.019
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**	**5.2**	**6.8**	**5.7**	**5.5**	**2.7**	**4.8**	**4.8**	**4.0**	**1.6**	**0.2**	**0.2**

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	0.045	0.051	0.042	0.039	0.029	0.030	0.011	0.033	0.040	0.025	0.036	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	**0.5**	**0.5**	**0.4**	**0.4**	**0.3**	**0.3**	**0.1**	**0.3**	**0.4**	**0.3**	**0.4**	**0.4**

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.

North Anna 2

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	1.0	0	1.0	0	1.0	0	0	0
Critical hours	2184.7	1823.8	1674.4	2022.2	2062.2	1982.9	2184.0	1801.0
Indicator value	**0.8**	**0.8**	**1.8**	**1.8**	**1.8**	**1.8**	**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/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned power changes	0	1.0	1.0	0	0	0	0	0
Critical hours	2184.7	1823.8	1674.4	2022.2	2062.2	1982.9	2184.0	1801.0
Indicator value	**0**	**0.8**	**1.8**	**1.8**	**1.8**	**0.9**	**0**	**0**

Licensee Comments: none

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	1.0	0	0	0	0	0
Indicator value				**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)	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Safety System Functional Failures	0	0	1	1	0	0	0	0
Indicator value	**0**	**0**	**1**	**2**	**2**	**2**	**1**	**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)	1.90E-08	2.00E-08	1.90E-08	1.90E-08	2.00E-08	2.00E-08	4.60E-08	2.80E-08
URI (ΔCDF)	7.90E-07	9.30E-07	9.10E-07	9.10E-07	9.10E-07	9.10E-07	5.00E-07	5.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.09E-07**	**9.50E-07**	**9.29E-07**	**9.29E-07**	**9.30E-07**	**9.30E-07**	**5.46E-07**	**5.28E-07**

Licensee Comments:

3Q/08: Risk Cap Invoked. An evaluation revealed an incorrect failure classification in October, 2005. Historical data was corrected with no change in color.

2Q/08: Risk Cap Invoked.

2Q/07: UAI 1.9E-08 / URI -1.6E-07/0 for March '07 revised to: UAI 2.0E-08 / URI 9.0E-09/0 as a result of 1.95 hours unplanned unavailability charged against U-2 Train-2 EDG on 03-18-07 due to lifting an incorrect lead during 2-PT-83.4.1.

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)	-2.10E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.10E-08	-2.10E-08	-2.10E-08
URI (ΔCDF)	9.10E-08	9.10E-08	9.00E-08	9.00E-08	9.00E-08	8.90E-08	6.40E-08	6.40E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.00E-08**	**7.10E-08**	**7.00E-08**	**7.00E-08**	**7.00E-08**	**6.80E-08**	**4.30E-08**	**4.30E-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/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**
UAI (ΔCDF)	-2.00E-08	-2.30E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08
URI (ΔCDF)	-4.20E-08	-4.20E-08	-4.20E-08	-4.20E-08	1.50E-07	1.50E-07	1.50E-07	1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.20E-08**	**-6.50E-08**	**-6.40E-08**	**-6.40E-08**	**1.28E-07**	**1.28E-07**	**1.28E-07**	**1.28E-07**

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)	8.50E-09	8.00E-09	1.00E-08	1.00E-08	1.00E-08	7.90E-09	6.50E-09	8.70E-10
URI (ΔCDF)	-7.40E-09	-7.70E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.70E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-09**	**3.00E-10**	**2.50E-09**	**2.50E-09**	**2.50E-09**	**4.00E-10**	**-1.00E-09**	**-6.83E-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)	8.60E-10	9.00E-10	1.10E-09	1.90E-09	1.90E-09	1.50E-09	-1.00E-10	5.50E-10
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	**4.59E-08**	**-1.91E-08**	**-1.89E-08**	**-1.81E-08**	**-1.81E-08**	**-1.05E-08**	**-1.21E-08**	**-1.15E-08**

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	0.000457	0.000487	0.000540	0.000541	0.000548	0.000797	0.000183	0.000284	0.000294	0.000265	0.000297	0.000322
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**	**0**	**0**	**0**	**0**	**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	0.000330	0.000387	0.000376	0.000424	0.000418	0.000574	0.000488	0.000489	0.000510	0.000526	0.000583	0.000669
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**	**0.1**	**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	0.571	0.550	0.269	0.483	0.477	0.402	0.157	0.018	0.019	0.045	0.051	0.042
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	**5.7**	**5.5**	**2.7**	**4.8**	**4.8**	**4.0**	**1.6**	**0.2**	**0.2**	**0.5**	**0.5**	**0.4**
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	0.039	0.029	0.030	0.011	0.033	0.040	0.025	0.036	0.038	0.012	0.021	0.014
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.4**	**0.3**	**0.3**	**0.1**	**0.3**	**0.4**	**0.3**	**0.4**	**0.4**	**0.1**	**0.2**	**0.1**

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

North Anna 2

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	0	1.0	0	1.0	0	0	0	0
Critical hours	1823.8	1674.4	2022.2	2062.2	1982.9	2184.0	1801.0	1277.7
Indicator value	**0.8**	**1.8**	**1.8**	**1.8**	**1.8**	**0.8**	**0.9**	**0**

Licensee Comments: none

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	1.0	1.0	0	0	0	0	0	0
Critical hours	1823.8	1674.4	2022.2	2062.2	1982.9	2184.0	1801.0	1277.7
Indicator value	**0.8**	**1.8**	**1.8**	**1.8**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

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	1.0	0	0	0	0	0	0
Indicator value			**1.0**	**1.0**	**1.0**	**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	1	1	0	0	0	0	1
Indicator value	**0**	**1**	**2**	**2**	**2**	**1**	**0**	**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/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	2.00E-08	1.90E-08	1.90E-08	2.00E-08	2.00E-08	4.60E-08	2.80E-08	2.30E-08
URI (ΔCDF)	9.30E-07	9.10E-07	9.10E-07	9.10E-07	9.10E-07	5.00E-07	5.00E-07	-4.30E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.50E-07**	**9.29E-07**	**9.29E-07**	**9.30E-07**	**9.30E-07**	**5.46E-07**	**5.28E-07**	**1.87E-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/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08
URI (ΔCDF)	9.10E-08	9.00E-08	9.00E-08	9.00E-08	8.90E-08	6.40E-08	6.40E-08	6.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.10E-08**	**7.00E-08**	**7.00E-08**	**7.00E-08**	**6.80E-08**	**4.30E-08**	**4.30E-08**	**4.20E-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	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**
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)	-4.20E-08	-4.20E-08	-4.20E-08	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.50E-08**	**-6.40E-08**	**-6.40E-08**	**1.28E-07**	**1.28E-07**	**1.28E-07**	**1.28E-07**	**1.28E-07**

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)	8.00E-09	1.00E-08	1.00E-08	1.00E-08	7.90E-09	6.50E-09	8.70E-10	7.60E-10
URI (ΔCDF)	-7.70E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.70E-09	-7.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.00E-10**	**2.50E-09**	**2.50E-09**	**2.50E-09**	**4.00E-10**	**-1.00E-09**	**-6.83E-09**	**-6.84E-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/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
UAI (ΔCDF)	9.00E-10	1.10E-09	1.90E-09	1.90E-09	1.50E-09	-1.00E-10	5.50E-10	6.80E-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	**-1.91E-08**	**-1.89E-08**	**-1.81E-08**	**-1.81E-08**	**-1.05E-08**	**-1.21E-08**	**-1.15E-08**	**-1.13E-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	0.000541	0.000548	0.000797	0.000183	0.000284	0.000294	0.000265	0.000297	0.000322	0.000330	0.000387	0.000376
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	**1/08**	**2/08**	**3/08**	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**
Maximum activity	0.000424	0.000418	0.000574	0.000488	0.000489	0.000510	0.000526	0.000583	0.000669	N/A	0.000374	0.002470
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**	**0.1**	**0.1**	**0.1**	**N/A**	**0**	**0.2**

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	0.483	0.477	0.402	0.157	0.018	0.019	0.045	0.051	0.042	0.039	0.029	0.030
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	**4.8**	**4.8**	**4.0**	**1.6**	**0.2**	**0.2**	**0.5**	**0.5**	**0.4**	**0.4**	**0.3**	**0.3**
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	0.011	0.033	0.040	0.025	0.036	0.038	0.012	0.021	0.014	0.043	0.021	0.011
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**	**0.3**	**0.4**	**0.3**	**0.4**	**0.4**	**0.1**	**0.2**	**0.1**	**0.4**	**0.2**	**0.1**

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 2

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	1.0	0	1.0	0	0	0	0	0
Critical hours	1674.4	2022.2	2062.2	1982.9	2184.0	1801.0	1277.7	2159.0
Indicator value	**1.8**	**1.8**	**1.8**	**1.8**	**0.8**	**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	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	1674.4	2022.2	2062.2	1982.9	2184.0	1801.0	1277.7	2159.0
Indicator value	**1.8**	**1.8**	**1.8**	**0.9**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	1.0	0	0	0	0	0	0	0
Indicator value		**1.0**	**1.0**	**1.0**	**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	1	1	0	0	0	0	1	0
Indicator value	**1**	**2**	**2**	**2**	**1**	**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/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	1.90E-08	1.90E-08	2.00E-08	2.00E-08	4.60E-08	2.80E-08	2.30E-08	2.30E-08
URI (ΔCDF)	9.10E-07	9.10E-07	9.10E-07	9.10E-07	5.00E-07	5.00E-07	-4.30E-09	-4.30E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.29E-07**	**9.29E-07**	**9.30E-07**	**9.30E-07**	**5.46E-07**	**5.28E-07**	**1.87E-08**	**1.87E-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/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	-2.00E-08	-2.00E-08	-2.00E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.20E-08
URI (ΔCDF)	9.00E-08	9.00E-08	9.00E-08	8.90E-08	6.40E-08	6.40E-08	6.30E-08	-9.00E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.00E-08**	**7.00E-08**	**7.00E-08**	**6.80E-08**	**4.30E-08**	**4.30E-08**	**4.20E-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	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**
UAI (ΔCDF)	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.20E-08	-2.00E-08
URI (ΔCDF)	-4.20E-08	-4.20E-08	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.40E-08**	**-6.40E-08**	**1.28E-07**	**1.28E-07**	**1.28E-07**	**1.28E-07**	**1.28E-07**	**1.30E-07**

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)	1.00E-08	1.00E-08	1.00E-08	7.90E-09	6.50E-09	8.70E-10	7.60E-10	7.60E-10
URI (ΔCDF)	-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.70E-09	-7.60E-09	-7.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.50E-09**	**2.50E-09**	**2.50E-09**	**4.00E-10**	**-1.00E-09**	**-6.83E-09**	**-6.84E-09**	**-6.84E-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/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
UAI (ΔCDF)	1.10E-09	1.90E-09	1.90E-09	1.50E-09	-1.00E-10	5.50E-10	6.80E-10	1.10E-09
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	**-1.89E-08**	**-1.81E-08**	**-1.81E-08**	**-1.05E-08**	**-1.21E-08**	**-1.15E-08**	**-1.13E-08**	**-1.09E-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	0.000183	0.000284	0.000294	0.000265	0.000297	0.000322	0.000330	0.000387	0.000376	0.000424	0.000418	0.000574
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	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**
Maximum activity	0.000488	0.000489	0.000510	0.000526	0.000583	0.000669	N/A	0.000374	0.002470	0.002540	0.000708	0.000523
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**	**N/A**	**0**	**0.2**	**0.3**	**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	0.157	0.018	0.019	0.045	0.051	0.042	0.039	0.029	0.030	0.011	0.033	0.040
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**	**0.2**	**0.2**	**0.5**	**0.5**	**0.4**	**0.4**	**0.3**	**0.3**	**0.1**	**0.3**	**0.4**
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	0.025	0.036	0.038	0.012	0.021	0.014	0.043	0.021	0.011	0.008	0.006	0.031
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**	**0.4**	**0.4**	**0.1**	**0.2**	**0.1**	**0.4**	**0.2**	**0.1**	**0.1**	**0.1**	**0.3**

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

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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	1.0	0	0	0	0	0	0
Critical hours	2022.2	2062.2	1982.9	2184.0	1801.0	1277.7	2159.0	2184.0
Indicator value	**1.8**	**1.8**	**1.8**	**0.8**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

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	2022.2	2062.2	1982.9	2184.0	1801.0	1277.7	2159.0	2184.0
Indicator value	**1.8**	**1.8**	**0.9**	**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	**1.0**	**1.0**	**1.0**	**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	1	0	0	0	0	1	0	0
Indicator value	**2**	**2**	**2**	**1**	**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/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	1.90E-08	2.00E-08	2.00E-08	4.60E-08	2.80E-08	2.30E-08	2.30E-08	2.40E-08
URI (ΔCDF)	9.10E-07	9.10E-07	9.10E-07	5.00E-07	5.00E-07	-4.30E-09	-4.30E-09	-1.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.29E-07**	**9.30E-07**	**9.30E-07**	**5.46E-07**	**5.28E-07**	**1.87E-08**	**1.87E-08**	**1.10E-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	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	-2.00E-08	-2.00E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.20E-08	-2.10E-08
URI (ΔCDF)	9.00E-08	9.00E-08	8.90E-08	6.40E-08	6.40E-08	6.30E-08	-9.00E-09	-9.10E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.00E-08**	**7.00E-08**	**6.80E-08**	**4.30E-08**	**4.30E-08**	**4.20E-08**	**-3.10E-08**	**-3.01E-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	-2.00E-08	-2.00E-08
URI (ΔCDF)	-4.20E-08	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.40E-08**	**1.28E-07**	**1.28E-07**	**1.28E-07**	**1.28E-07**	**1.28E-07**	**1.30E-07**	**1.30E-07**

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)	1.00E-08	1.00E-08	7.90E-09	6.50E-09	8.70E-10	7.60E-10	7.60E-10	7.60E-10
URI (ΔCDF)	-7.50E-09	-7.50E-09	-7.50E-09	-7.50E-09	-7.70E-09	-7.60E-09	-7.60E-09	-7.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.50E-09**	**2.50E-09**	**4.00E-10**	**-1.00E-09**	**-6.83E-09**	**-6.84E-09**	**-6.84E-09**	**-6.84E-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/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	1.90E-09	1.90E-09	1.50E-09	-1.00E-10	5.50E-10	6.80E-10	1.10E-09	1.30E-09
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	**-1.81E-08**	**-1.81E-08**	**-1.05E-08**	**-1.21E-08**	**-1.15E-08**	**-1.13E-08**	**-1.09E-08**	**-1.07E-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	0.000265	0.000297	0.000322	0.000330	0.000387	0.000376	0.000424	0.000418	0.000574	0.000488	0.000489	0.000510
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	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	0.000526	0.000583	0.000669	N/A	0.000374	0.002470	0.002540	0.000708	0.000523	0.000477	0.000509	0.000521
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**	**N/A**	**0**	**0.2**	**0.3**	**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	**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	0.045	0.051	0.042	0.039	0.029	0.030	0.011	0.033	0.040	0.025	0.036	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	**0.5**	**0.5**	**0.4**	**0.4**	**0.3**	**0.3**	**0.1**	**0.3**	**0.4**	**0.3**	**0.4**	**0.4**
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	0.012	0.021	0.014	0.043	0.021	0.011	0.008	0.006	0.031	0.009	0.023	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**	**0.2**	**0.1**	**0.4**	**0.2**	**0.1**	**0.1**	**0.1**	**0.3**	**0.1**	**0.2**	**0.1**

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 2

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	1.0	0	0	0	0	0	0	0
Critical hours	2062.2	1982.9	2184.0	1801.0	1277.7	2159.0	2184.0	2208.0
Indicator value	**1.8**	**1.8**	**0.8**	**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	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	2062.2	1982.9	2184.0	1801.0	1277.7	2159.0	2184.0	2208.0
Indicator value	**1.8**	**0.9**	**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	**1.0**	**1.0**	**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	1	0	0	0
Indicator value	**2**	**2**	**1**	**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/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	2.00E-08	2.00E-08	4.60E-08	2.80E-08	2.30E-08	2.30E-08	2.40E-08	2.40E-08
URI (ΔCDF)	9.10E-07	9.10E-07	5.00E-07	5.00E-07	-4.30E-09	-4.30E-09	-1.30E-08	-1.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.30E-07**	**9.30E-07**	**5.46E-07**	**5.28E-07**	**1.87E-08**	**1.87E-08**	**1.10E-08**	**1.10E-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/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
UAI (ΔCDF)	-2.00E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.20E-08	-2.10E-08	-2.10E-08
URI (ΔCDF)	9.00E-08	8.90E-08	6.40E-08	6.40E-08	7.20E-08	-8.20E-10	-9.40E-10	-1.10E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.00E-08**	**6.80E-08**	**4.30E-08**	**4.30E-08**	**5.10E-08**	**-2.28E-08**	**-2.19E-08**	**-2.21E-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	-2.00E-08	-2.00E-08	-2.00E-08
URI (ΔCDF)	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.28E-07**	**1.28E-07**	**1.28E-07**	**1.28E-07**	**1.28E-07**	**1.30E-07**	**1.30E-07**	**1.30E-07**

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)	1.00E-08	7.90E-09	6.50E-09	8.70E-10	7.60E-10	7.60E-10	7.60E-10	-1.50E-09
URI (ΔCDF)	-7.50E-09	-7.50E-09	-7.50E-09	-7.70E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.50E-09**	**4.00E-10**	**-1.00E-09**	**-6.83E-09**	**-6.84E-09**	**-6.84E-09**	**-6.84E-09**	**-9.10E-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/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**
UAI (ΔCDF)	1.90E-09	1.50E-09	-1.00E-10	5.50E-10	6.80E-10	1.10E-09	1.30E-09	1.30E-09
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	**-1.81E-08**	**-1.05E-08**	**-1.21E-08**	**-1.15E-08**	**-1.13E-08**	**-1.09E-08**	**-1.07E-08**	**-1.07E-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	0.000330	0.000387	0.000376	0.000424	0.000418	0.000574	0.000488	0.000489	0.000510	0.000526	0.000583	0.000669
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**	**0.1**	**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	N/A	0.000374	0.002470	0.002540	0.000708	0.000523	0.000477	0.000509	0.000521	0.000466	0.000419	0.000437
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**	**0.2**	**0.3**	**0.1**	**0.1**	**0**	**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	**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	0.039	0.029	0.030	0.011	0.033	0.040	0.025	0.036	0.038	0.012	0.021	0.014
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.4**	**0.3**	**0.3**	**0.1**	**0.3**	**0.4**	**0.3**	**0.4**	**0.4**	**0.1**	**0.2**	**0.1**
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	0.043	0.021	0.011	0.008	0.006	0.031	0.009	0.023	0.012	0.006	0.016	0.013
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**	**0.2**	**0.1**	**0.1**	**0.1**	**0.3**	**0.1**	**0.2**	**0.1**	**0.1**	**0.2**	**0.1**

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 2

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	1.0
Critical hours	1982.9	2184.0	1801.0	1277.7	2159.0	2184.0	2208.0	2147.3
Indicator value	**1.8**	**0.8**	**0.9**	**0**	**0**	**0**	**0**	**0.8**

Licensee Comments:

4Q/09: Unit 2 automatic trip due to loss of "C" RSS transformer

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	1982.9	2184.0	1801.0	1277.7	2159.0	2184.0	2208.0	2147.3
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	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	**1.0**	**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	1	0	0	0	1
Indicator value	**2**	**1**	**0**	**1**	**1**	**1**	**1**	**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. SSFF (LER - both trains of Safety Injection inoperable) reported in December 2008 dropped off the PI summary report after 4 quaters of data.

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)	2.00E-08	4.60E-08	2.80E-08	2.30E-08	2.30E-08	2.40E-08	2.40E-08	2.40E-08
URI (ΔCDF)	9.10E-07	5.00E-07	5.00E-07	-4.30E-09	-4.30E-09	-1.30E-08	-1.30E-08	-1.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.30E-07**	**5.46E-07**	**5.28E-07**	**1.87E-08**	**1.87E-08**	**1.10E-08**	**1.10E-08**	**7.00E-09**

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)	-2.10E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.20E-08	-2.10E-08	-2.10E-08	-2.10E-08
URI (ΔCDF)	8.90E-08	6.40E-08	6.40E-08	7.20E-08	-8.20E-10	-9.40E-10	-1.10E-09	-1.10E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**6.80E-08**	**4.30E-08**	**4.30E-08**	**5.10E-08**	**-2.28E-08**	**-2.19E-08**	**-2.21E-08**	**-2.21E-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	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08
URI (ΔCDF)	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.28E-07**	**1.28E-07**	**1.28E-07**	**1.28E-07**	**1.30E-07**	**1.30E-07**	**1.30E-07**	**1.30E-07**

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)	7.90E-09	6.50E-09	8.70E-10	7.60E-10	7.60E-10	7.60E-10	-1.50E-09	-1.50E-09
URI (ΔCDF)	-7.50E-09	-7.50E-09	-7.70E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.60E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.00E-10**	**-1.00E-09**	**-6.83E-09**	**-6.84E-09**	**-6.84E-09**	**-6.84E-09**	**-9.10E-09**	**-9.10E-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/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	1.50E-09	-1.00E-10	5.50E-10	6.80E-10	1.10E-09	1.30E-09	1.30E-09	1.30E-09
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	**-1.05E-08**	**-1.21E-08**	**-1.15E-08**	**-1.13E-08**	**-1.09E-08**	**-1.07E-08**	**-1.07E-08**	**-1.07E-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	0.000424	0.000418	0.000574	0.000488	0.000489	0.000510	0.000526	0.000583	0.000669	N/A	0.000374	0.002470
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**	**0.1**	**0.1**	**0.1**	**N/A**	**0**	**0.2**

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	0.002540	0.000708	0.000523	0.000477	0.000509	0.000521	0.000466	0.000419	0.000437	0.000444	0.000475	0.011000
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**	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**0**	**0**	**0**	**0**	**0**	**1.1**

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	0.011	0.033	0.040	0.025	0.036	0.038	0.012	0.021	0.014	0.043	0.021	0.011
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**	**0.3**	**0.4**	**0.3**	**0.4**	**0.4**	**0.1**	**0.2**	**0.1**	**0.4**	**0.2**	**0.1**
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	0.008	0.006	0.031	0.009	0.023	0.012	0.006	0.016	0.013	0.031	0.002	0.011
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**	**0.3**	**0.1**	**0.2**	**0.1**	**0.1**	**0.2**	**0.1**	**0.3**	**0**	**0.1**

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 2

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	1.0	0
Critical hours	2184.0	1801.0	1277.7	2159.0	2184.0	2208.0	2147.3	1895.7
Indicator value	**0.8**	**0.9**	**0**	**0**	**0**	**0**	**0.8**	**0.8**

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	0	0
Critical hours	2184.0	1801.0	1277.7	2159.0	2184.0	2208.0	2147.3	1895.7
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	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	1	0	0	0	1	0
Indicator value	**1**	**0**	**1**	**1**	**1**	**1**	**1**	**1**

Licensee Comments:

4Q/08: LER 08-002-00, "Two Trains of ECCS Inoperable."

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)	4.60E-08	2.80E-08	2.30E-08	2.30E-08	2.40E-08	2.40E-08	2.40E-08	2.32E-08
URI (ΔCDF)	5.00E-07	5.00E-07	-4.30E-09	-4.30E-09	-1.30E-08	-1.30E-08	-1.70E-08	-1.70E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**5.46E-07**	**5.28E-07**	**1.87E-08**	**1.87E-08**	**1.10E-08**	**1.10E-08**	**7.00E-09**	**-1.50E-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/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**
UAI (ΔCDF)	-2.10E-08	-2.10E-08	-2.10E-08	-2.20E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.11E-08
URI (ΔCDF)	6.40E-08	6.40E-08	7.20E-08	-8.20E-10	-9.40E-10	-1.10E-09	-1.10E-09	2.37E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.30E-08**	**4.30E-08**	**5.10E-08**	**-2.28E-08**	**-2.19E-08**	**-2.21E-08**	**-2.21E-08**	**2.60E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**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	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.02E-08
URI (ΔCDF)	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.28E-07**	**1.28E-07**	**1.28E-07**	**1.30E-07**	**1.30E-07**	**1.30E-07**	**1.30E-07**	**1.30E-07**

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)	6.50E-09	8.70E-10	7.60E-10	7.60E-10	7.60E-10	-1.50E-09	-1.50E-09	-1.55E-09
URI (ΔCDF)	-7.50E-09	-7.70E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.50E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-09**	**-6.83E-09**	**-6.84E-09**	**-6.84E-09**	**-6.84E-09**	**-9.10E-09**	**-9.10E-09**	**-9.00E-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/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**
UAI (ΔCDF)	-1.00E-10	5.50E-10	6.80E-10	1.10E-09	1.30E-09	1.30E-09	1.30E-09	1.27E-09
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	**-1.21E-08**	**-1.15E-08**	**-1.13E-08**	**-1.09E-08**	**-1.07E-08**	**-1.07E-08**	**-1.07E-08**	**-1.00E-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	0.000488	0.000489	0.000510	0.000526	0.000583	0.000669	N/A	0.000374	0.002470	0.002540	0.000708	0.000523
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**	**N/A**	**0**	**0.2**	**0.3**	**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	0.000477	0.000509	0.000521	0.000466	0.000419	0.000437	0.000444	0.000475	0.011000	0.000592	0.000588	0.032100
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**	**0**	**0**	**0**	**0**	**1.1**	**0.1**	**0.1**	**3.2**

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	0.025	0.036	0.038	0.012	0.021	0.014	0.043	0.021	0.011	0.008	0.006	0.031
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**	**0.4**	**0.4**	**0.1**	**0.2**	**0.1**	**0.4**	**0.2**	**0.1**	**0.1**	**0.1**	**0.3**
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	0.009	0.023	0.012	0.006	0.016	0.013	0.031	0.002	0.011	0.003	0.009	0.002
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**	**0.2**	**0.1**	**0.1**	**0.2**	**0.1**	**0.3**	**0**	**0.1**	**0**	**0.1**	**0**

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 2

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	1.0	0	3.0
Critical hours	1801.0	1277.7	2159.0	2184.0	2208.0	2147.3	1895.7	1380.3
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0.8**	**0.8**	**3.7**

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	0	0	0
Critical hours	1801.0	1277.7	2159.0	2184.0	2208.0	2147.3	1895.7	1380.3
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/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	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/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**
UAI (ΔCDF)	2.80E-08	2.30E-08	2.30E-08	2.40E-08	2.40E-08	2.40E-08	2.32E-08	2.38E-08
URI (ΔCDF)	5.00E-07	-4.30E-09	-4.30E-09	-1.30E-08	-1.30E-08	-1.70E-08	-1.70E-07	-1.60E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**5.28E-07**	**1.87E-08**	**1.87E-08**	**1.10E-08**	**1.10E-08**	**7.00E-09**	**-1.50E-07**	**-1.40E-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/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**
UAI (ΔCDF)	-2.10E-08	-2.10E-08	-2.20E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.11E-08	-2.19E-08
URI (ΔCDF)	6.40E-08	7.20E-08	-8.20E-10	-9.40E-10	-1.10E-09	-1.10E-09	2.37E-08	4.92E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.30E-08**	**5.10E-08**	**-2.28E-08**	**-2.19E-08**	**-2.21E-08**	**-2.21E-08**	**2.60E-09**	**2.70E-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	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.02E-08	-2.06E-08
URI (ΔCDF)	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.41E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.28E-07**	**1.28E-07**	**1.30E-07**	**1.30E-07**	**1.30E-07**	**1.30E-07**	**1.30E-07**	**1.20E-07**

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)	8.70E-10	7.60E-10	7.60E-10	7.60E-10	-1.50E-09	-1.50E-09	-1.55E-09	-3.52E-09
URI (ΔCDF)	-7.70E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.50E-09	-7.71E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.83E-09**	**-6.84E-09**	**-6.84E-09**	**-6.84E-09**	**-9.10E-09**	**-9.10E-09**	**-9.00E-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	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**
UAI (ΔCDF)	5.50E-10	6.80E-10	1.10E-09	1.30E-09	1.30E-09	1.30E-09	1.27E-09	1.05E-09
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	**-1.15E-08**	**-1.13E-08**	**-1.09E-08**	**-1.07E-08**	**-1.07E-08**	**-1.07E-08**	**-1.00E-08**	**-1.00E-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	0.000526	0.000583	0.000669	N/A	0.000374	0.002470	0.002540	0.000708	0.000523	0.000477	0.000509	0.000521
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**	**N/A**	**0**	**0.2**	**0.3**	**0.1**	**0.1**	**0**	**0.1**	**0.1**

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	0.000466	0.000419	0.000437	0.000444	0.000475	0.011000	0.000592	0.000588	0.032100	0.000175	0.000235	0.000283
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**	**1.1**	**0.1**	**0.1**	**3.2**	**0**	**0**	**0**

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	0.012	0.021	0.014	0.043	0.021	0.011	0.008	0.006	0.031	0.009	0.023	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**	**0.2**	**0.1**	**0.4**	**0.2**	**0.1**	**0.1**	**0.1**	**0.3**	**0.1**	**0.2**	**0.1**
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	0.006	0.016	0.013	0.031	0.002	0.011	0.003	0.009	0.002	0.082	0.006	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	**0.1**	**0.2**	**0.1**	**0.3**	**0**	**0.1**	**0**	**0.1**	**0**	**0.8**	**0.1**	**0**

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 2

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	1.0	0	3.0	0
Critical hours	1277.7	2159.0	2184.0	2208.0	2147.3	1895.7	1380.3	2160.6
Indicator value	**0**	**0**	**0**	**0**	**0.8**	**0.8**	**3.7**	**3.7**

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	0	0	0	1.0
Critical hours	1277.7	2159.0	2184.0	2208.0	2147.3	1895.7	1380.3	2160.6
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**

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	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/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**
UAI (ΔCDF)	2.30E-08	2.30E-08	2.40E-08	2.40E-08	2.40E-08	2.32E-08	2.38E-08	1.64E-08
URI (ΔCDF)	-4.30E-09	-4.30E-09	-1.30E-08	-1.30E-08	-1.70E-08	-1.70E-07	-1.60E-07	-2.63E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.87E-08**	**1.87E-08**	**1.10E-08**	**1.10E-08**	**7.00E-09**	**-1.50E-07**	**-1.40E-07**	**-1.00E-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/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**
UAI (ΔCDF)	-2.10E-08	-2.20E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.11E-08	-2.19E-08	-6.67E-08
URI (ΔCDF)	7.20E-08	-8.20E-10	-9.40E-10	-1.10E-09	-1.10E-09	2.37E-08	4.92E-08	5.76E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**5.10E-08**	**-2.28E-08**	**-2.19E-08**	**-2.21E-08**	**-2.21E-08**	**2.60E-09**	**2.70E-08**	**-9.10E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**
UAI (ΔCDF)	-2.20E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.02E-08	-2.06E-08	-4.53E-09
URI (ΔCDF)	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.41E-07	4.33E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.28E-07**	**1.30E-07**	**1.30E-07**	**1.30E-07**	**1.30E-07**	**1.30E-07**	**1.20E-07**	**3.90E-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)	7.60E-10	7.60E-10	7.60E-10	-1.50E-09	-1.50E-09	-1.55E-09	-3.52E-09	-3.75E-09
URI (ΔCDF)	-7.60E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.50E-09	-7.71E-09	-8.07E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.84E-09**	**-6.84E-09**	**-6.84E-09**	**-9.10E-09**	**-9.10E-09**	**-9.00E-09**	**-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)	6.80E-10	1.10E-09	1.30E-09	1.30E-09	1.30E-09	1.27E-09	1.05E-09	-2.36E-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	**-1.13E-08**	**-1.09E-08**	**-1.07E-08**	**-1.07E-08**	**-1.07E-08**	**-1.00E-08**	**-1.00E-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	N/A	0.000374	0.002470	0.002540	0.000708	0.000523	0.000477	0.000509	0.000521	0.000466	0.000419	0.000437
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**	**0.2**	**0.3**	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**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	0.000444	0.000475	0.011000	0.000592	0.000588	0.032100	0.000175	0.000235	0.000283	0.000246	0.000260	0.000266
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**	**1.1**	**0.1**	**0.1**	**3.2**	**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	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**
Maximum leakage	0.043	0.021	0.011	0.008	0.006	0.031	0.009	0.023	0.012	0.006	0.016	0.013
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**	**0.2**	**0.1**	**0.1**	**0.1**	**0.3**	**0.1**	**0.2**	**0.1**	**0.1**	**0.2**	**0.1**
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	0.031	0.002	0.011	0.003	0.009	0.002	0.082	0.006	0.003	0.013	0.005	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	**0.3**	**0**	**0.1**	**0**	**0.1**	**0**	**0.8**	**0.1**	**0**	**0.1**	**0.1**	**0**

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 2

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	1.0	0	3.0	0	0
Critical hours	2159.0	2184.0	2208.0	2147.3	1895.7	1380.3	2160.6	1748.2
Indicator value	**0**	**0**	**0**	**0.8**	**0.8**	**3.7**	**3.7**	**2.9**

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	0	0	0	1.0	1.0
Critical hours	2159.0	2184.0	2208.0	2147.3	1895.7	1380.3	2160.6	1748.2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**	**1.9**

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	**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	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	2.30E-08	2.40E-08	2.40E-08	2.40E-08	2.32E-08	2.38E-08	1.64E-08	1.83E-08
URI (ΔCDF)	-4.30E-09	-1.30E-08	-1.30E-08	-1.70E-08	-1.70E-07	-1.60E-07	-2.63E-08	8.92E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.87E-08**	**1.10E-08**	**1.10E-08**	**7.00E-09**	**-1.50E-07**	**-1.40E-07**	**-1.00E-08**	**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/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	-2.20E-08	-2.10E-08	-2.10E-08	-2.10E-08	-2.11E-08	-2.19E-08	-6.67E-08	-6.67E-08
URI (ΔCDF)	-8.20E-10	-9.40E-10	-1.10E-09	-1.10E-09	2.37E-08	4.92E-08	5.76E-08	5.76E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.28E-08**	**-2.19E-08**	**-2.21E-08**	**-2.21E-08**	**2.60E-09**	**2.70E-08**	**-9.10E-09**	**-9.10E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	-2.00E-08	-2.00E-08	-2.00E-08	-2.00E-08	-2.02E-08	-2.06E-08	-4.53E-09	-4.59E-09
URI (ΔCDF)	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.41E-07	4.33E-08	-1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.30E-07**	**1.30E-07**	**1.30E-07**	**1.30E-07**	**1.30E-07**	**1.20E-07**	**3.90E-08**	**-1.70E-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/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
UAI (ΔCDF)	7.60E-10	7.60E-10	-1.50E-09	-1.50E-09	-1.55E-09	-3.52E-09	-3.75E-09	-3.75E-09
URI (ΔCDF)	-7.60E-09	-7.60E-09	-7.60E-09	-7.60E-09	-7.50E-09	-7.71E-09	-8.07E-09	-8.07E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.84E-09**	**-6.84E-09**	**-9.10E-09**	**-9.10E-09**	**-9.00E-09**	**-1.10E-08**	**-1.20E-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	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	1.10E-09	1.30E-09	1.30E-09	1.30E-09	1.27E-09	1.05E-09	-2.36E-11	-1.01E-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	**-1.09E-08**	**-1.07E-08**	**-1.07E-08**	**-1.07E-08**	**-1.00E-08**	**-1.00E-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	0.002540	0.000708	0.000523	0.000477	0.000509	0.000521	0.000466	0.000419	0.000437	0.000444	0.000475	0.011000
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**	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**0**	**0**	**0**	**0**	**0**	**1.1**
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	0.000592	0.000588	0.032100	0.000175	0.000235	0.000283	0.000246	0.000260	0.000266	0.000296	0.000309	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	**0.1**	**0.1**	**3.2**	**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	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**
Maximum leakage	0.008	0.006	0.031	0.009	0.023	0.012	0.006	0.016	0.013	0.031	0.002	0.011
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**	**0.3**	**0.1**	**0.2**	**0.1**	**0.1**	**0.2**	**0.1**	**0.3**	**0**	**0.1**
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	0.003	0.009	0.002	0.082	0.006	0.003	0.013	0.005	0.001	0.012	0.008	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**	**0.8**	**0.1**	**0**	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**0.1**

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 2

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	1.0	0	3.0	0	0	0
Critical hours	2184.0	2208.0	2147.3	1895.7	1380.3	2160.6	1748.2	2159.0
Indicator value	**0**	**0**	**0.8**	**0.8**	**3.7**	**3.7**	**2.9**	**2.8**

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	0	0	0	1.0	1.0	0
Critical hours	2184.0	2208.0	2147.3	1895.7	1380.3	2160.6	1748.2	2159.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.9**	**1.9**	**1.9**

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	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)	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	**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	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**
UAI (ΔCDF)	2.40E-08	2.40E-08	2.40E-08	2.32E-08	2.38E-08	1.64E-08	1.83E-08	3.47E-08
URI (ΔCDF)	-1.30E-08	-1.30E-08	-1.70E-08	-1.70E-07	-1.60E-07	-2.63E-08	8.92E-08	8.92E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-08**	**1.10E-08**	**7.00E-09**	**-1.50E-07**	**-1.40E-07**	**-1.00E-08**	**1.10E-07**	**1.20E-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/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**
UAI (ΔCDF)	-2.10E-08	-2.10E-08	-2.10E-08	-2.11E-08	-2.19E-08	-6.67E-08	-6.67E-08	-6.67E-08
URI (ΔCDF)	-9.40E-10	-1.10E-09	-1.10E-09	2.37E-08	4.92E-08	5.76E-08	5.76E-08	5.76E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.19E-08**	**-2.21E-08**	**-2.21E-08**	**2.60E-09**	**2.70E-08**	**-9.10E-09**	**-9.10E-09**	**-9.10E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
UAI (ΔCDF)	-2.00E-08	-2.00E-08	-2.00E-08	-2.02E-08	-2.06E-08	-4.53E-09	-4.59E-09	-4.59E-09
URI (ΔCDF)	1.50E-07	1.50E-07	1.50E-07	1.50E-07	1.41E-07	4.33E-08	-1.20E-08	-1.16E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.30E-07**	**1.30E-07**	**1.30E-07**	**1.30E-07**	**1.20E-07**	**3.90E-08**	**-1.70E-08**	**-1.60E-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)	7.60E-10	-1.50E-09	-1.50E-09	-1.55E-09	-3.52E-09	-3.75E-09	-3.75E-09	-2.29E-09
URI (ΔCDF)	-7.60E-09	-7.60E-09	-7.60E-09	-7.50E-09	-7.71E-09	-8.07E-09	-8.07E-09	-8.07E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.84E-09**	**-9.10E-09**	**-9.10E-09**	**-9.00E-09**	**-1.10E-08**	**-1.20E-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	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**
UAI (ΔCDF)	1.30E-09	1.30E-09	1.30E-09	1.27E-09	1.05E-09	-2.36E-11	-1.01E-11	-1.07E-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	**-1.07E-08**	**-1.07E-08**	**-1.07E-08**	**-1.00E-08**	**-1.00E-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	0.000477	0.000509	0.000521	0.000466	0.000419	0.000437	0.000444	0.000475	0.011000	0.000592	0.000588	0.032100
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**	**0**	**0**	**0**	**0**	**1.1**	**0.1**	**0.1**	**3.2**
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	0.000175	0.000235	0.000283	0.000246	0.000260	0.000266	0.000296	0.000309	0.000270	0.000329	0.000271	0.000293
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	**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	0.009	0.023	0.012	0.006	0.016	0.013	0.031	0.002	0.011	0.003	0.009	0.002
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**	**0.2**	**0.1**	**0.1**	**0.2**	**0.1**	**0.3**	**0**	**0.1**	**0**	**0.1**	**0**
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	0.082	0.006	0.003	0.013	0.005	0.001	0.012	0.008	0.009	0.004	0.001	0.026
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**	**0.1**	**0**	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0.3**

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 2

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	1.0	0	3.0	0	0	0	0
Critical hours	2208.0	2147.3	1895.7	1380.3	2160.6	1748.2	2159.0	2184.0
Indicator value	**0**	**0.8**	**0.8**	**3.7**	**3.7**	**2.9**	**2.8**	**0**

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	0	0	0	1.0	1.0	0	0
Critical hours	2208.0	2147.3	1895.7	1380.3	2160.6	1748.2	2159.0	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**1.9**	**1.9**	**1.7**

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	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

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	**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	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	2.40E-08	2.40E-08	2.32E-08	2.38E-08	1.64E-08	1.83E-08	3.47E-08	1.93E-08
URI (ΔCDF)	-1.30E-08	-1.70E-08	-1.70E-07	-1.60E-07	-2.63E-08	8.92E-08	8.92E-08	-2.45E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-08**	**7.00E-09**	**-1.50E-07**	**-1.40E-07**	**-1.00E-08**	**1.10E-07**	**1.20E-07**	**-5.20E-09**

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)	-2.10E-08	-2.10E-08	-2.11E-08	-2.19E-08	-6.67E-08	-6.67E-08	-6.67E-08	-6.55E-08
URI (ΔCDF)	-1.10E-09	-1.10E-09	2.37E-08	4.92E-08	5.76E-08	5.76E-08	5.76E-08	5.76E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.21E-08**	**-2.21E-08**	**2.60E-09**	**2.70E-08**	**-9.10E-09**	**-9.10E-09**	**-9.10E-09**	**-7.90E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**
UAI (ΔCDF)	-2.00E-08	-2.00E-08	-2.02E-08	-2.06E-08	-4.53E-09	-4.59E-09	-4.59E-09	-4.59E-09
URI (ΔCDF)	1.50E-07	1.50E-07	1.50E-07	1.41E-07	4.33E-08	-1.20E-08	-1.16E-08	-1.16E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.30E-07**	**1.30E-07**	**1.30E-07**	**1.20E-07**	**3.90E-08**	**-1.70E-08**	**-1.60E-08**	**-1.60E-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)	-1.50E-09	-1.50E-09	-1.55E-09	-3.52E-09	-3.75E-09	-3.75E-09	-2.29E-09	2.13E-10
URI (ΔCDF)	-7.60E-09	-7.60E-09	-7.50E-09	-7.71E-09	-8.07E-09	-8.07E-09	-8.07E-09	-8.07E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.10E-09**	**-9.10E-09**	**-9.00E-09**	**-1.10E-08**	**-1.20E-08**	**-1.20E-08**	**-1.00E-08**	**-7.90E-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/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**
UAI (ΔCDF)	1.30E-09	1.30E-09	1.27E-09	1.05E-09	-2.36E-11	-1.01E-11	-1.07E-11	-1.66E-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	**-1.07E-08**	**-1.07E-08**	**-1.00E-08**	**-1.00E-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	0.000466	0.000419	0.000437	0.000444	0.000475	0.011000	0.000592	0.000588	0.032100	0.000175	0.000235	0.000283
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**	**1.1**	**0.1**	**0.1**	**3.2**	**0**	**0**	**0**
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	0.000246	0.000260	0.000266	0.000296	0.000309	0.000270	0.000329	0.000271	0.000293	0.000297	0.000316	0.000317
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	**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	0.006	0.016	0.013	0.031	0.002	0.011	0.003	0.009	0.002	0.082	0.006	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	**0.1**	**0.2**	**0.1**	**0.3**	**0**	**0.1**	**0**	**0.1**	**0**	**0.8**	**0.1**	**0**
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	0.013	0.005	0.001	0.012	0.008	0.009	0.004	0.001	0.026	0	0.006	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	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0.3**	**0**	**0.1**	**0**

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 2

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	1.0	0	3.0	0	0	0	0	1.0
Critical hours	2147.3	1895.7	1380.3	2160.6	1748.2	2159.0	2184.0	1285.9
Indicator value	**0.8**	**0.8**	**3.7**	**3.7**	**2.9**	**2.8**	**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	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned power changes	0	0	0	1.0	1.0	0	0	0
Critical hours	2147.3	1895.7	1380.3	2160.6	1748.2	2159.0	2184.0	1285.9
Indicator value	**0**	**0**	**0**	**0.9**	**1.9**	**1.9**	**1.7**	**0.9**

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	1.0	0	0	0	0	1.0
Indicator value	**0.0**	**0.0**	**1.0**	**1.0**	**1.0**	**1.0**	**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)	2.40E-08	2.32E-08	2.38E-08	1.64E-08	1.83E-08	3.47E-08	1.93E-08	-3.00E-09
URI (ΔCDF)	-1.70E-08	-1.70E-07	-1.60E-07	-2.63E-08	8.92E-08	8.92E-08	-2.45E-08	8.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.00E-09**	**-1.50E-07**	**-1.40E-07**	**-1.00E-08**	**1.10E-07**	**1.20E-07**	**-5.20E-09**	**8.50E-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/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**
UAI (ΔCDF)	-2.10E-08	-2.11E-08	-2.19E-08	-6.67E-08	-6.67E-08	-6.67E-08	-6.55E-08	-6.60E-08
URI (ΔCDF)	-1.10E-09	2.37E-08	4.92E-08	5.76E-08	5.76E-08	5.76E-08	5.76E-08	5.76E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.21E-08**	**2.60E-09**	**2.70E-08**	**-9.10E-09**	**-9.10E-09**	**-9.10E-09**	**-7.90E-09**	**-8.40E-09**

Licensee Comments: none

Mitigating Systems Performance Index, Heat Removal System

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**
UAI (ΔCDF)	-2.00E-08	-2.02E-08	-2.06E-08	-4.53E-09	-4.59E-09	-4.59E-09	-4.59E-09	-4.58E-09
URI (ΔCDF)	1.50E-07	1.50E-07	1.41E-07	4.33E-08	-1.20E-08	-1.16E-08	-1.16E-08	-1.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.30E-07**	**1.30E-07**	**1.20E-07**	**3.90E-08**	**-1.70E-08**	**-1.60E-08**	**-1.60E-08**	**-1.70E-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/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**
UAI (ΔCDF)	-1.50E-09	-1.55E-09	-3.52E-09	-3.75E-09	-3.75E-09	-2.29E-09	2.13E-10	2.09E-09
URI (ΔCDF)	-7.60E-09	-7.50E-09	-7.71E-09	-8.07E-09	-8.07E-09	-8.07E-09	-8.07E-09	-7.96E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.10E-09**	**-9.00E-09**	**-1.10E-08**	**-1.20E-08**	**-1.20E-08**	**-1.00E-08**	**-7.90E-09**	**-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	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**
UAI (ΔCDF)	1.30E-09	1.27E-09	1.05E-09	-2.36E-11	-1.01E-11	-1.07E-11	-1.66E-11	-4.29E-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	**-1.07E-08**	**-1.00E-08**	**-1.00E-08**	**-3.10E-10**	**-3.00E-10**	**-4.70E-10**	**-4.80E-10**	**-5.00E-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	0.000444	0.000475	0.011000	0.000592	0.000588	0.032100	0.000175	0.000235	0.000283	0.000246	0.000260	0.000266
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**	**1.1**	**0.1**	**0.1**	**3.2**	**0**	**0**	**0**	**0**	**0**	**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	0.000296	0.000309	0.000270	0.000329	0.000271	0.000293	0.000297	0.000316	0.000317	0.000331	0.000337	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**	**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	0.031	0.002	0.011	0.003	0.009	0.002	0.082	0.006	0.003	0.013	0.005	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	**0.3**	**0**	**0.1**	**0**	**0.1**	**0**	**0.8**	**0.1**	**0**	**0.1**	**0.1**	**0**

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	0.012	0.008	0.009	0.004	0.001	0.026	0	0.006	0	0	0	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	**0.1**	**0.1**	**0.1**	**0**	**0**	**0.3**	**0**	**0.1**	**0**	**0**	**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 2

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	3.0	0	0	0	0	1.0	0
Critical hours	1895.7	1380.3	2160.6	1748.2	2159.0	2184.0	1285.9	992.4
Indicator value	**0.8**	**3.7**	**3.7**	**2.9**	**2.8**	**0**	**0.9**	**1.1**

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	1895.7	1380.3	2160.6	1748.2	2159.0	2184.0	1285.9	992.4
Indicator value	**0**	**0**	**0.9**	**1.9**	**1.9**	**1.7**	**0.9**	**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	1.0	0	0	0	0	1.0	0
Indicator value	**0.0**	**1.0**	**1.0**	**1.0**	**1.0**	**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	2
Indicator value	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**2**

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)	2.32E-08	2.38E-08	1.64E-08	1.83E-08	3.47E-08	1.93E-08	-3.00E-09	-1.37E-08
URI (ΔCDF)	-1.70E-07	-1.60E-07	-2.63E-08	-2.63E-08	-2.63E-08	-1.41E-07	8.80E-08	8.80E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-07**	**-1.40E-07**	**-1.00E-08**	**-8.00E-09**	**8.40E-09**	**-1.20E-07**	**8.50E-08**	**7.40E-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/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**
UAI (ΔCDF)	-2.11E-08	-2.19E-08	-6.67E-08	-6.67E-08	-6.67E-08	-6.55E-08	-6.60E-08	-6.52E-08
URI (ΔCDF)	2.37E-08	4.92E-08	5.76E-08	5.76E-08	5.76E-08	5.76E-08	5.76E-08	4.58E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.60E-09**	**2.70E-08**	**-9.10E-09**	**-9.10E-09**	**-9.10E-09**	**-7.90E-09**	**-8.40E-09**	**-1.90E-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)	-2.02E-08	-2.06E-08	-4.53E-09	-4.59E-09	-4.59E-09	-4.59E-09	-4.58E-09	-4.57E-09
URI (ΔCDF)	1.50E-07	1.41E-07	4.33E-08	-1.20E-08	-1.16E-08	-1.16E-08	-1.28E-08	-1.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.30E-07**	**1.20E-07**	**3.90E-08**	**-1.70E-08**	**-1.60E-08**	**-1.60E-08**	**-1.70E-08**	**-1.70E-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/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**
UAI (ΔCDF)	-1.55E-09	-3.52E-09	-3.75E-09	-3.75E-09	-2.29E-09	2.13E-10	2.09E-09	2.27E-09
URI (ΔCDF)	-7.50E-09	-7.71E-09	-8.07E-09	-8.07E-09	-8.07E-09	-8.07E-09	-7.96E-09	-7.75E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.00E-09**	**-1.10E-08**	**-1.20E-08**	**-1.20E-08**	**-1.00E-08**	**-7.90E-09**	**-5.90E-09**	**-5.50E-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	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**
UAI (ΔCDF)	1.27E-09	1.05E-09	-2.36E-11	-1.01E-11	-1.07E-11	-1.66E-11	-4.29E-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	**-1.00E-08**	**-1.00E-08**	**-3.10E-10**	**-3.00E-10**	**-4.70E-10**	**-4.80E-10**	**-5.00E-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	0.000592	0.000588	0.032100	0.000175	0.000235	0.000283	0.000246	0.000260	0.000266	0.000296	0.000309	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	**0.1**	**0.1**	**3.2**	**0**	**0**	**0**	**0**	**0**	**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	0.000329	0.000271	0.000293	0.000297	0.000316	0.000317	0.000331	0.000337	N/A	N/A	0.000135	0.000134
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**	**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	0.003	0.009	0.002	0.082	0.006	0.003	0.013	0.005	0.001	0.012	0.008	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**	**0.8**	**0.1**	**0**	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**0.1**

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	0.004	0.001	0.026	0	0.006	0	0	0	0	0	0.016	0.022
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**	**0.3**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0.2**	**0.2**

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 2

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	3.0	0	0	0	0	1.0	0	0
Critical hours	1380.3	2160.6	1748.2	2159.0	2184.0	1285.9	992.4	2183.0
Indicator value	**3.7**	**3.7**	**2.9**	**2.8**	**0**	**0.9**	**1.1**	**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	0
Critical hours	1380.3	2160.6	1748.2	2159.0	2184.0	1285.9	992.4	2183.0
Indicator value	**0**	**0.9**	**1.9**	**1.9**	**1.7**	**0.9**	**0**	**0**

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	1.0	0	0	0	0	1.0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**1.0**	**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	2	0
Indicator value	**1**	**1**	**1**	**1**	**1**	**1**	**2**	**2**

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)	2.38E-08	1.64E-08	1.83E-08	3.47E-08	1.93E-08	-3.00E-09	-1.37E-08	-1.37E-08
URI (ΔCDF)	-8.65E-08	-5.83E-09	-5.83E-09	-5.83E-09	-1.21E-07	3.22E-07	3.22E-07	3.22E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.30E-08**	**1.10E-08**	**1.20E-08**	**2.90E-08**	**-1.00E-07**	**3.20E-07**	**3.10E-07**	**3.10E-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	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**
UAI (ΔCDF)	-2.19E-08	-6.67E-08	-6.67E-08	-6.67E-08	-6.55E-08	-6.60E-08	-6.52E-08	-6.66E-08
URI (ΔCDF)	4.92E-08	5.76E-08	5.76E-08	5.76E-08	5.76E-08	5.76E-08	4.58E-08	4.58E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.70E-08**	**-9.10E-09**	**-9.10E-09**	**-9.10E-09**	**-7.90E-09**	**-8.40E-09**	**-1.90E-08**	**-2.10E-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	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	-2.06E-08	-4.53E-09	-4.59E-09	-4.59E-09	-4.59E-09	-4.58E-09	-4.57E-09	-5.23E-09
URI (ΔCDF)	1.41E-07	4.33E-08	-1.20E-08	-1.16E-08	-1.16E-08	-1.28E-08	-1.28E-08	-1.24E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.20E-07**	**3.90E-08**	**-1.70E-08**	**-1.60E-08**	**-1.60E-08**	**-1.70E-08**	**-1.70E-08**	**-1.80E-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/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**
UAI (ΔCDF)	-3.52E-09	-3.75E-09	-3.75E-09	-2.29E-09	2.13E-10	2.09E-09	2.27E-09	-1.44E-09
URI (ΔCDF)	-7.71E-09	-8.07E-09	-8.07E-09	-8.07E-09	-8.07E-09	-7.96E-09	-7.75E-09	-7.75E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-08**	**-1.20E-08**	**-1.20E-08**	**-1.00E-08**	**-7.90E-09**	**-5.90E-09**	**-5.50E-09**	**-9.20E-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	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**
UAI (ΔCDF)	1.05E-09	-2.36E-11	-1.01E-11	-1.07E-11	-1.66E-11	-4.29E-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	**-1.00E-08**	**-3.10E-10**	**-3.00E-10**	**-4.70E-10**	**-4.80E-10**	**-5.00E-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	0.000175	0.000235	0.000283	0.000246	0.000260	0.000266	0.000296	0.000309	0.000270	0.000329	0.000271	0.000293
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	**4/11**	**5/11**	**6/11**	**7/11**	**8/11**	**9/11**	**10/11**	**11/11**	**12/11**	**1/12**	**2/12**	**3/12**
Maximum activity	0.000297	0.000316	0.000317	0.000331	0.000337	N/A	N/A	0.000135	0.000134	0.000142	0.000149	0.000165
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**	**N/A**	**N/A**	**0**	**0**	**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	**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	0.082	0.006	0.003	0.013	0.005	0.001	0.012	0.008	0.009	0.004	0.001	0.026
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**	**0.1**	**0**	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0.3**

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	0.006	0	0	0	0	0	0.016	0.022	0.013	0.017	0.041
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**	**0**	**0**	**0**	**0.2**	**0.2**	**0.1**	**0.2**	**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 2

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	0	0	0	1.0	0	0	0
Critical hours	2160.6	1748.2	2159.0	2184.0	1285.9	992.4	2183.0	2184.0
Indicator value	**3.7**	**2.9**	**2.8**	**0**	**0.9**	**1.1**	**1.1**	**1.1**

Licensee Comments: none

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	0	0
Critical hours	2160.6	1748.2	2159.0	2184.0	1285.9	992.4	2183.0	2184.0
Indicator value	**0.9**	**1.9**	**1.9**	**1.7**	**0.9**	**0**	**0**	**0**

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	**1.0**	**1.0**	**1.0**	**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	2	0	0
Indicator value	**1**	**1**	**1**	**1**	**1**	**2**	**2**	**2**

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)	1.64E-08	1.83E-08	3.47E-08	1.93E-08	-3.00E-09	-1.37E-08	-1.37E-08	-1.39E-08
URI (ΔCDF)	-5.83E-09	-5.83E-09	-5.83E-09	-1.21E-07	3.22E-07	3.22E-07	3.22E-07	3.29E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-08**	**1.20E-08**	**2.90E-08**	**-1.00E-07**	**3.20E-07**	**3.10E-07**	**3.10E-07**	**3.20E-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/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-6.67E-08	-6.67E-08	-6.67E-08	-6.55E-08	-6.60E-08	-6.52E-08	-6.66E-08	-6.63E-08
URI (ΔCDF)	5.76E-08	5.76E-08	5.76E-08	5.76E-08	5.76E-08	4.58E-08	4.58E-08	4.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.10E-09**	**-9.10E-09**	**-9.10E-09**	**-7.90E-09**	**-8.40E-09**	**-1.90E-08**	**-2.10E-08**	**-2.00E-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)	-4.53E-09	-4.59E-09	-4.59E-09	-4.59E-09	-4.58E-09	-4.57E-09	-5.23E-09	-5.23E-09
URI (ΔCDF)	4.33E-08	-1.20E-08	-1.16E-08	-1.16E-08	-1.28E-08	-1.28E-08	-1.24E-08	-1.24E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.90E-08**	**-1.70E-08**	**-1.60E-08**	**-1.60E-08**	**-1.70E-08**	**-1.70E-08**	**-1.80E-08**	**-1.80E-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/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**
UAI (ΔCDF)	-3.75E-09	-3.75E-09	-2.29E-09	2.13E-10	2.09E-09	2.27E-09	-1.44E-09	-1.52E-09
URI (ΔCDF)	-8.07E-09	-8.07E-09	-8.07E-09	-8.07E-09	-7.96E-09	-7.75E-09	-7.75E-09	-7.75E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.20E-08**	**-1.00E-08**	**-7.90E-09**	**-5.90E-09**	**-5.50E-09**	**-9.20E-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	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**
UAI (ΔCDF)	-2.36E-11	-1.01E-11	-1.07E-11	-1.66E-11	-4.29E-11	-4.52E-11	-5.71E-11	-6.18E-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**	**-5.00E-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	0.000246	0.000260	0.000266	0.000296	0.000309	0.000270	0.000329	0.000271	0.000293	0.000297	0.000316	0.000317
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	7/11	8/11	9/11	10/11	11/11	12/11	1/12	2/12	3/12	4/12	5/12	6/12
Maximum activity	0.000331	0.000337	N/A	N/A	0.000135	0.000134	0.000142	0.000149	0.000165	0.000171	0.000186	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**	**N/A**	**N/A**	**0**	**0**	**0**	**0**	**0**	**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	0.013	0.005	0.001	0.012	0.008	0.009	0.004	0.001	0.026	0	0.006	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	**0.1**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0**	**0**	**0.3**	**0**	**0.1**	**0**
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	0	0	0	0.016	0.022	0.013	0.017	0.041	0.018	0.014	0.014
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0**	**0**	**0**	**0**	**0.2**	**0.2**	**0.1**	**0.2**	**0.4**	**0.2**	**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 2

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	0	0	0	1.0	0	0	0	0
Critical hours	1748.2	2159.0	2184.0	1285.9	992.4	2183.0	2184.0	2208.0
Indicator value	**2.9**	**2.8**	**0**	**0.9**	**1.1**	**1.1**	**1.1**	**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	0	0	0
Critical hours	1748.2	2159.0	2184.0	1285.9	992.4	2183.0	2184.0	2208.0
Indicator value	**1.9**	**1.9**	**1.7**	**0.9**	**0**	**0**	**0**	**0**

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	**1.0**	**1.0**	**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	2	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**2**	**2**	**2**	**2**

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)	1.83E-08	3.47E-08	1.93E-08	-3.00E-09	-1.37E-08	-1.37E-08	-1.39E-08	-1.39E-08
URI (ΔCDF)	-5.83E-09	-5.83E-09	-1.21E-07	3.22E-07	3.22E-07	3.22E-07	3.29E-07	3.29E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.20E-08**	**2.90E-08**	**-1.00E-07**	**3.20E-07**	**3.10E-07**	**3.10E-07**	**3.20E-07**	**3.20E-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/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**
UAI (ΔCDF)	-6.67E-08	-6.67E-08	-6.55E-08	-6.60E-08	-6.52E-08	-6.66E-08	-6.63E-08	-6.72E-08
URI (ΔCDF)	5.76E-08	5.76E-08	5.76E-08	5.76E-08	4.58E-08	4.58E-08	4.59E-08	4.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.10E-09**	**-9.10E-09**	**-7.90E-09**	**-8.40E-09**	**-1.90E-08**	**-2.10E-08**	**-2.00E-08**	**-2.10E-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/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
UAI (ΔCDF)	-4.59E-09	-4.59E-09	-4.59E-09	-4.58E-09	-4.57E-09	-5.23E-09	-5.23E-09	-5.23E-09
URI (ΔCDF)	-1.20E-08	-1.16E-08	-1.16E-08	-1.28E-08	-1.28E-08	-1.24E-08	-1.24E-08	-1.24E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-08**	**-1.60E-08**	**-1.60E-08**	**-1.70E-08**	**-1.70E-08**	**-1.80E-08**	**-1.80E-08**	**-1.80E-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	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**
UAI (ΔCDF)	-3.75E-09	-2.29E-09	2.13E-10	2.09E-09	2.27E-09	-1.44E-09	-1.52E-09	-2.69E-09
URI (ΔCDF)	-8.07E-09	-8.07E-09	-8.07E-09	-7.96E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.00E-08**	**-7.90E-09**	**-5.90E-09**	**-5.50E-09**	**-9.20E-09**	**-9.30E-09**	**-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	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**
UAI (ΔCDF)	-1.01E-11	-1.07E-11	-1.66E-11	-4.29E-11	-4.52E-11	-5.71E-11	-6.18E-11	-6.18E-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**	**-5.00E-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	0.000296	0.000309	0.000270	0.000329	0.000271	0.000293	0.000297	0.000316	0.000317	0.000331	0.000337	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**	**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	0.000135	0.000134	0.000142	0.000149	0.000165	0.000171	0.000186	0.000187	0.000189	0.000206	0.000219
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**	**0**	**0**	**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	0.012	0.008	0.009	0.004	0.001	0.026	0	0.006	0	0	0	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	**0.1**	**0.1**	**0.1**	**0**	**0**	**0.3**	**0**	**0.1**	**0**	**0**	**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	0.016	0.022	0.013	0.017	0.041	0.018	0.014	0.014	0.014	0.012	0.007
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**	**0.2**	**0.2**	**0.1**	**0.2**	**0.4**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

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

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 2

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	1.0
Critical hours	2159.0	2184.0	1285.9	992.4	2183.0	2184.0	2208.0	1908.5
Indicator value	**2.8**	**0**	**0.9**	**1.1**	**1.1**	**1.1**	**0**	**0.8**

Licensee Comments: none

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	0	0	0	1.0
Critical hours	2159.0	2184.0	1285.9	992.4	2183.0	2184.0	2208.0	1908.5
Indicator value	**1.9**	**1.7**	**0.9**	**0**	**0**	**0**	**0**	**0.8**

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	**1.0**	**0.0**	**1.0**	**1.0**	**1.0**	**1.0**	**0.0**	**0.0**

Licensee Comments: none

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	2	0	0	0	0
Indicator value	**1**	**1**	**1**	**2**	**2**	**2**	**2**	**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)	3.47E-08	1.93E-08	-3.00E-09	-1.37E-08	-1.37E-08	-1.39E-08	-1.39E-08	-1.39E-08
URI (ΔCDF)	-5.83E-09	-1.21E-07	3.22E-07	3.22E-07	3.22E-07	3.29E-07	3.29E-07	3.32E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.90E-08**	**-1.00E-07**	**3.20E-07**	**3.10E-07**	**3.10E-07**	**3.20E-07**	**3.20E-07**	**3.20E-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/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**
UAI (ΔCDF)	-6.67E-08	-6.55E-08	-6.60E-08	-6.52E-08	-6.66E-08	-6.63E-08	-6.72E-08	-6.39E-08
URI (ΔCDF)	5.76E-08	5.76E-08	5.76E-08	4.58E-08	4.58E-08	4.59E-08	4.59E-08	4.60E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.10E-09**	**-7.90E-09**	**-8.40E-09**	**-1.90E-08**	**-2.10E-08**	**-2.00E-08**	**-2.10E-08**	**-1.80E-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	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (ΔCDF)	-4.59E-09	-4.59E-09	-4.58E-09	-4.57E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09
URI (ΔCDF)	-1.16E-08	-1.16E-08	-1.28E-08	-1.28E-08	-1.24E-08	-1.24E-08	-1.24E-08	-1.24E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-08**	**-1.60E-08**	**-1.70E-08**	**-1.70E-08**	**-1.80E-08**	**-1.80E-08**	**-1.80E-08**	**-1.80E-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	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**
UAI (ΔCDF)	-2.29E-09	2.13E-10	2.09E-09	2.27E-09	-1.44E-09	-1.52E-09	-2.69E-09	-2.68E-09
URI (ΔCDF)	-8.07E-09	-8.07E-09	-7.96E-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	**-1.00E-08**	**-7.90E-09**	**-5.90E-09**	**-5.50E-09**	**-9.20E-09**	**-9.30E-09**	**-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	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**
UAI (ΔCDF)	-1.07E-11	-1.66E-11	-4.29E-11	-4.52E-11	-5.71E-11	-6.18E-11	-6.18E-11	-6.17E-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**	**-5.00E-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	0.000329	0.000271	0.000293	0.000297	0.000316	0.000317	0.000331	0.000337	N/A	N/A	0.000135	0.000134
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**	**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	0.000142	0.000149	0.000165	0.000171	0.000186	0.000187	0.000189	0.000206	0.000219	0.000262	0.000230	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:

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	0.004	0.001	0.026	0	0.006	0	0	0	0	0	0.016	0.022
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**	**0.3**	**0**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0.2**	**0.2**

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	0.013	0.017	0.041	0.018	0.014	0.014	0.014	0.012	0.007	0.036	0.049	0.049
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**	**0.2**	**0.4**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.4**	**0.5**	**0.5**

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

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 2

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	1.0	0
Critical hours	2184.0	1285.9	992.4	2183.0	2184.0	2208.0	1908.5	2159.0
Indicator value	**0**	**0.9**	**1.1**	**1.1**	**1.1**	**0**	**0.8**	**0.8**

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	0	0	0	1.0	0
Critical hours	2184.0	1285.9	992.4	2183.0	2184.0	2208.0	1908.5	2159.0
Indicator value	**1.7**	**0.9**	**0**	**0**	**0**	**0**	**0.8**	**0.8**

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	2	0	0	0	0	0
Indicator value	**1**	**1**	**2**	**2**	**2**	**2**	**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)	1.93E-08	-3.00E-09	-1.37E-08	-1.37E-08	-1.39E-08	-1.39E-08	-1.39E-08	1.70E-09
URI (ΔCDF)	-1.21E-07	3.22E-07	3.22E-07	3.22E-07	3.29E-07	3.29E-07	3.32E-07	3.32E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-07**	**3.20E-07**	**3.10E-07**	**3.10E-07**	**3.20E-07**	**3.20E-07**	**3.20E-07**	**3.30E-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	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**
UAI (ΔCDF)	-6.55E-08	-6.60E-08	-6.52E-08	-6.66E-08	-6.63E-08	-6.72E-08	-6.39E-08	-6.06E-08
URI (ΔCDF)	5.76E-08	5.76E-08	4.58E-08	4.58E-08	4.59E-08	4.59E-08	4.60E-08	1.67E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.90E-09**	**-8.40E-09**	**-1.90E-08**	**-2.10E-08**	**-2.00E-08**	**-2.10E-08**	**-1.80E-08**	**-4.40E-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)	-4.59E-09	-4.58E-09	-4.57E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09
URI (ΔCDF)	-1.16E-08	-1.28E-08	-1.28E-08	-1.24E-08	-1.24E-08	-1.24E-08	-1.24E-08	-1.24E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-08**	**-1.70E-08**	**-1.70E-08**	**-1.80E-08**	**-1.80E-08**	**-1.80E-08**	**-1.80E-08**	**-1.80E-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/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**
UAI (ΔCDF)	2.13E-10	2.09E-09	2.27E-09	-1.44E-09	-1.52E-09	-2.69E-09	-2.68E-09	-2.69E-09
URI (ΔCDF)	-8.07E-09	-7.96E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.53E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.90E-09**	**-5.90E-09**	**-5.50E-09**	**-9.20E-09**	**-9.30E-09**	**-1.00E-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/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**
UAI (ΔCDF)	-1.66E-11	-4.29E-11	-4.52E-11	-5.71E-11	-6.18E-11	-6.18E-11	-6.17E-11	-6.18E-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**	**-5.00E-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	0.000297	0.000316	0.000317	0.000331	0.000337	N/A	N/A	0.000135	0.000134	0.000142	0.000149	0.000165
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**	**N/A**	**N/A**	**0**	**0**	**0**	**0**	**0**

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	0.000171	0.000186	0.000187	0.000189	0.000206	0.000219	0.000262	0.000230	0.000222	0.000235	0.000245	0.000256
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:

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	0.006	0	0	0	0	0	0.016	0.022	0.013	0.017	0.041
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**	**0**	**0**	**0**	**0.2**	**0.2**	**0.1**	**0.2**	**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	0.018	0.014	0.014	0.014	0.012	0.007	0.036	0.049	0.049	0.048	0.047	0.046
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**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**

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 2

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	1.0	0	2.0
Critical hours	1285.9	992.4	2183.0	2184.0	2208.0	1908.5	2159.0	1099.1
Indicator value	**0.9**	**1.1**	**1.1**	**1.1**	**0**	**0.8**	**0.8**	**2.8**

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	0	0	0	1.0	0	0
Critical hours	1285.9	992.4	2183.0	2184.0	2208.0	1908.5	2159.0	1099.1
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0.8**	**0.8**	**0.9**

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	2	0	0	0	0	0	0
Indicator value	**1**	**2**	**2**	**2**	**2**	**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)	-3.00E-09	-1.37E-08	-1.37E-08	-1.39E-08	-1.39E-08	-1.39E-08	1.70E-09	2.73E-09
URI (ΔCDF)	3.22E-07	3.22E-07	3.22E-07	3.29E-07	3.29E-07	3.32E-07	3.32E-07	3.32E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.20E-07**	**3.10E-07**	**3.10E-07**	**3.20E-07**	**3.20E-07**	**3.20E-07**	**3.30E-07**	**3.30E-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/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**
UAI (ΔCDF)	-6.60E-08	-6.52E-08	-6.66E-08	-6.63E-08	-6.72E-08	-6.39E-08	-6.06E-08	-5.87E-08
URI (ΔCDF)	5.76E-08	4.58E-08	4.58E-08	4.59E-08	4.59E-08	4.60E-08	1.67E-08	-1.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.40E-09**	**-1.90E-08**	**-2.10E-08**	**-2.00E-08**	**-2.10E-08**	**-1.80E-08**	**-4.40E-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	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**
UAI (ΔCDF)	-4.58E-09	-4.57E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09
URI (ΔCDF)	-1.28E-08	-1.28E-08	-1.24E-08	-1.24E-08	-1.24E-08	-1.24E-08	-1.24E-08	-1.19E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-08**	**-1.70E-08**	**-1.80E-08**	**-1.80E-08**	**-1.80E-08**	**-1.80E-08**	**-1.80E-08**	**-1.70E-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/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**
UAI (ΔCDF)	2.09E-09	2.27E-09	-1.44E-09	-1.52E-09	-2.69E-09	-2.68E-09	-2.69E-09	-2.68E-09
URI (ΔCDF)	-7.96E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.53E-09	-7.09E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.90E-09**	**-5.50E-09**	**-9.20E-09**	**-9.30E-09**	**-1.00E-08**	**-1.00E-08**	**-1.00E-08**	**-9.80E-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)	-4.29E-11	-4.52E-11	-5.71E-11	-6.18E-11	-6.18E-11	-6.17E-11	-6.18E-11	-6.17E-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	**-5.00E-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	0.000331	0.000337	N/A	N/A	0.000135	0.000134	0.000142	0.000149	0.000165	0.000171	0.000186	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**	**N/A**	**N/A**	**0**	**0**	**0**	**0**	**0**	**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	0.000189	0.000206	0.000219	0.000262	0.000230	0.000222	0.000235	0.000245	0.000256	0.000274	0.000161	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:

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	0	0	0	0.016	0.022	0.013	0.017	0.041	0.018	0.014	0.014
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0**	**0**	**0**	**0**	**0.2**	**0.2**	**0.1**	**0.2**	**0.4**	**0.2**	**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	0.014	0.012	0.007	0.036	0.049	0.049	0.048	0.047	0.046	0.044	0.072	0.018
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**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.4**	**0.7**	**0.2**

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 2

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	1.0	0	2.0	0
Critical hours	992.4	2183.0	2184.0	2208.0	1908.5	2159.0	1099.1	2208.0
Indicator value	**1.1**	**1.1**	**1.1**	**0**	**0.8**	**0.8**	**2.8**	**2.8**

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	0	0	0	1.0	0	0	0
Critical hours	992.4	2183.0	2184.0	2208.0	1908.5	2159.0	1099.1	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0.8**	**0.8**	**0.9**	**0.9**

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	2	0	0	0	0	0	0	0
Indicator value	**2**	**2**	**2**	**2**	**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)	-1.37E-08	-1.37E-08	-1.39E-08	-1.39E-08	-1.39E-08	1.70E-09	2.73E-09	3.30E-09
URI (ΔCDF)	3.22E-07	3.22E-07	3.29E-07	3.29E-07	3.32E-07	3.32E-07	3.32E-07	3.32E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.10E-07**	**3.10E-07**	**3.20E-07**	**3.20E-07**	**3.20E-07**	**3.30E-07**	**3.30E-07**	**3.40E-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/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**
UAI (ΔCDF)	-6.52E-08	-6.66E-08	-6.63E-08	-6.72E-08	-6.39E-08	-6.06E-08	-5.87E-08	-5.93E-08
URI (ΔCDF)	4.58E-08	4.58E-08	4.59E-08	4.59E-08	4.60E-08	1.67E-08	-1.27E-08	-1.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.90E-08**	**-2.10E-08**	**-2.00E-08**	**-2.10E-08**	**-1.80E-08**	**-4.40E-08**	**-7.10E-08**	**-7.20E-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	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**
UAI (ΔCDF)	-4.57E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09
URI (ΔCDF)	-1.28E-08	-1.24E-08	-1.24E-08	-1.24E-08	-1.24E-08	-1.24E-08	-1.19E-08	-1.19E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-08**	**-1.80E-08**	**-1.80E-08**	**-1.80E-08**	**-1.80E-08**	**-1.80E-08**	**-1.70E-08**	**-1.70E-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/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**
UAI (ΔCDF)	2.27E-09	-1.44E-09	-1.52E-09	-2.69E-09	-2.68E-09	-2.69E-09	-2.68E-09	-2.68E-09
URI (ΔCDF)	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.53E-09	-7.09E-09	-7.09E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.50E-09**	**-9.20E-09**	**-9.30E-09**	**-1.00E-08**	**-1.00E-08**	**-1.00E-08**	**-9.80E-09**	**-9.80E-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	-6.18E-11	-6.18E-11	-6.17E-11	-6.18E-11	-6.17E-11	-6.17E-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	0.000135	0.000134	0.000142	0.000149	0.000165	0.000171	0.000186	0.000187	0.000189	0.000206	0.000219
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**	**0**	**0**	**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	0.000262	0.000230	0.000222	0.000235	0.000245	0.000256	0.000274	0.000161	0.000139	0.000230	0.000155	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**

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	0.016	0.022	0.013	0.017	0.041	0.018	0.014	0.014	0.014	0.012	0.007
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**	**0.2**	**0.2**	**0.1**	**0.2**	**0.4**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**
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	0.036	0.049	0.049	0.048	0.047	0.046	0.044	0.072	0.018	0.027	0.036	0.067
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**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.4**	**0.7**	**0.2**	**0.3**	**0.4**	**0.7**

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 2

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	1.0	0	2.0	0	0
Critical hours	2183.0	2184.0	2208.0	1908.5	2159.0	1099.1	2208.0	2209.0
Indicator value	**1.1**	**1.1**	**0**	**0.8**	**0.8**	**2.8**	**2.8**	**1.8**

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	0	0	0	1.0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	1908.5	2159.0	1099.1	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0.8**	**0.8**	**0.9**	**0.9**	**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	**2**	**2**	**2**	**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)	-1.37E-08	-1.39E-08	-1.39E-08	-1.39E-08	1.70E-09	2.73E-09	3.30E-09	2.28E-09
URI (ΔCDF)	3.22E-07	3.29E-07	3.29E-07	3.32E-07	3.32E-07	3.32E-07	3.32E-07	3.32E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.10E-07**	**3.20E-07**	**3.20E-07**	**3.20E-07**	**3.30E-07**	**3.30E-07**	**3.40E-07**	**3.30E-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	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	-6.66E-08	-6.63E-08	-6.72E-08	-6.39E-08	-6.06E-08	-5.87E-08	-5.93E-08	-5.72E-08
URI (ΔCDF)	4.58E-08	4.59E-08	4.59E-08	4.60E-08	1.67E-08	-1.27E-08	-1.27E-08	-1.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-08**	**-2.00E-08**	**-2.10E-08**	**-1.80E-08**	**-4.40E-08**	**-7.10E-08**	**-7.20E-08**	**-7.00E-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)	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09
URI (ΔCDF)	-1.24E-08	-1.24E-08	-1.24E-08	-1.24E-08	-1.24E-08	-1.19E-08	-1.19E-08	-1.19E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.80E-08**	**-1.80E-08**	**-1.80E-08**	**-1.80E-08**	**-1.80E-08**	**-1.70E-08**	**-1.70E-08**	**-1.70E-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/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	-1.44E-09	-1.52E-09	-2.69E-09	-2.68E-09	-2.69E-09	-2.68E-09	-2.68E-09	-1.85E-09
URI (ΔCDF)	-7.75E-09	-7.75E-09	-7.75E-09	-7.75E-09	-7.53E-09	-7.09E-09	-7.09E-09	-7.09E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.20E-09**	**-9.30E-09**	**-1.00E-08**	**-1.00E-08**	**-1.00E-08**	**-9.80E-09**	**-9.80E-09**	**-8.90E-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	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	-5.71E-11	-6.18E-11	-6.18E-11	-6.17E-11	-6.18E-11	-6.17E-11	-6.17E-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

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	0.000142	0.000149	0.000165	0.000171	0.000186	0.000187	0.000189	0.000206	0.000219	0.000262	0.000230	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	**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	0.000235	0.000245	0.000256	0.000274	0.000161	0.000139	0.000230	0.000155	0.000168	0.000167	0.000193	0.000202
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	0.013	0.017	0.041	0.018	0.014	0.014	0.014	0.012	0.007	0.036	0.049	0.049
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**	**0.2**	**0.4**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.4**	**0.5**	**0.5**
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	0.048	0.047	0.046	0.044	0.072	0.018	0.027	0.036	0.067	0.033	0.034	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	**0.5**	**0.5**	**0.5**	**0.4**	**0.7**	**0.2**	**0.3**	**0.4**	**0.7**	**0.3**	**0.3**	**0.4**

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 2

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	1.0	0	2.0	0	0	1.0
Critical hours	2184.0	2208.0	1908.5	2159.0	1099.1	2208.0	2209.0	2130.7
Indicator value	**1.1**	**0**	**0.8**	**0.8**	**2.8**	**2.8**	**1.8**	**2.7**

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	1.0	0	0	0	0	0
Critical hours	2184.0	2208.0	1908.5	2159.0	1099.1	2208.0	2209.0	2130.7
Indicator value	**0**	**0**	**0.8**	**0.8**	**0.9**	**0.9**	**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

Safety System Functional Failures (PWR)

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	**2**	**2**	**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)	-1.39E-08	-1.39E-08	-1.39E-08	1.70E-09	2.73E-09	3.30E-09	2.28E-09	-1.54E-08
URI (ΔCDF)	3.29E-07	3.29E-07	3.32E-07	3.32E-07	3.32E-07	3.32E-07	3.32E-07	3.32E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.20E-07**	**3.20E-07**	**3.20E-07**	**3.30E-07**	**3.30E-07**	**3.40E-07**	**3.30E-07**	**3.20E-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/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**
UAI (ΔCDF)	-6.63E-08	-6.72E-08	-6.39E-08	-6.06E-08	-5.87E-08	-5.93E-08	-5.72E-08	-3.65E-08
URI (ΔCDF)	4.59E-08	4.59E-08	4.60E-08	1.67E-08	-1.27E-08	-1.27E-08	-1.27E-08	-1.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.00E-08**	**-2.10E-08**	**-1.80E-08**	**-4.40E-08**	**-7.10E-08**	**-7.20E-08**	**-7.00E-08**	**-4.90E-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)	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09
URI (ΔCDF)	-1.24E-08	-1.24E-08	-1.24E-08	-1.24E-08	-1.19E-08	-1.19E-08	-1.19E-08	-1.24E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.80E-08**	**-1.80E-08**	**-1.80E-08**	**-1.80E-08**	**-1.70E-08**	**-1.70E-08**	**-1.70E-08**	**-1.80E-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/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**
UAI (ΔCDF)	-1.52E-09	-2.69E-09	-2.68E-09	-2.69E-09	-2.68E-09	-2.68E-09	-1.85E-09	-2.89E-09
URI (ΔCDF)	-7.75E-09	-7.75E-09	-7.75E-09	-7.53E-09	-7.09E-09	-7.09E-09	-7.09E-09	-7.09E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.30E-09**	**-1.00E-08**	**-1.00E-08**	**-1.00E-08**	**-9.80E-09**	**-9.80E-09**	**-8.90E-09**	**-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/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**
UAI (ΔCDF)	-6.18E-11	-6.18E-11	-6.17E-11	-6.18E-11	-6.17E-11	-6.17E-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

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	0.000171	0.000186	0.000187	0.000189	0.000206	0.000219	0.000262	0.000230	0.000222	0.000235	0.000245	0.000256
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	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**
Maximum activity	0.000274	0.000161	0.000139	0.000230	0.000155	0.000168	0.000167	0.000193	0.000202	0.000207	0.000293	0.000621
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

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	0.018	0.014	0.014	0.014	0.012	0.007	0.036	0.049	0.049	0.048	0.047	0.046
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**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**
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	0.044	0.072	0.018	0.027	0.036	0.067	0.033	0.034	0.035	0.056	0.049	0.036
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**	**0.7**	**0.2**	**0.3**	**0.4**	**0.7**	**0.3**	**0.3**	**0.4**	**0.6**	**0.5**	**0.4**

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 2

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	1.0	0	2.0	0	0	1.0	0
Critical hours	2208.0	1908.5	2159.0	1099.1	2208.0	2209.0	2130.7	2184.0
Indicator value	**0**	**0.8**	**0.8**	**2.8**	**2.8**	**1.8**	**2.7**	**0.8**

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	1.0	0	0	0	0	0	0
Critical hours	2208.0	1908.5	2159.0	1099.1	2208.0	2209.0	2130.7	2184.0
Indicator value	**0**	**0.8**	**0.8**	**0.9**	**0.9**	**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	**2**	**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)	-1.39E-08	-1.39E-08	1.70E-09	2.73E-09	3.30E-09	2.28E-09	-1.17E-08	-1.17E-08
URI (ΔCDF)	3.29E-07	3.32E-07	3.32E-07	3.32E-07	3.32E-07	3.32E-07	2.48E-07	2.43E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.20E-07**	**3.20E-07**	**3.30E-07**	**3.30E-07**	**3.40E-07**	**3.30E-07**	**2.40E-07**	**2.30E-07**

Licensee Comments:

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	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**
UAI (ΔCDF)	-6.72E-08	-6.39E-08	-6.06E-08	-5.87E-08	-5.93E-08	-5.72E-08	-1.35E-08	-2.51E-08
URI (ΔCDF)	4.59E-08	4.60E-08	1.67E-08	-1.27E-08	-1.27E-08	-1.27E-08	-1.30E-08	-1.35E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-08**	**-1.80E-08**	**-4.40E-08**	**-7.10E-08**	**-7.20E-08**	**-7.00E-08**	**-2.70E-08**	**-3.90E-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	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**
UAI (ΔCDF)	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-2.77E-09	-2.77E-09
URI (ΔCDF)	-1.24E-08	-1.24E-08	-1.24E-08	-1.19E-08	-1.19E-08	-1.19E-08	-7.45E-09	-7.50E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.80E-08**	**-1.80E-08**	**-1.80E-08**	**-1.70E-08**	**-1.70E-08**	**-1.70E-08**	**-1.00E-08**	**-1.00E-08**

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)	-2.69E-09	-2.68E-09	-2.69E-09	-2.68E-09	-2.68E-09	-1.85E-09	-3.75E-09	-3.75E-09
URI (ΔCDF)	-7.75E-09	-7.75E-09	-7.53E-09	-7.09E-09	-7.09E-09	-7.09E-09	-8.36E-09	-8.36E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-08**	**-1.00E-08**	**-1.00E-08**	**-9.80E-09**	**-9.80E-09**	**-8.90E-09**	**-1.20E-08**	**-1.20E-08**

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)	-6.18E-11	-6.17E-11	-6.18E-11	-6.17E-11	-6.17E-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	-2.17E-09	-2.17E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.40E-10**	**-2.40E-09**	**-2.40E-09**

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	0.000189	0.000206	0.000219	0.000262	0.000230	0.000222	0.000235	0.000245	0.000256	0.000274	0.000161	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	**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	0.000230	0.000155	0.000168	0.000167	0.000193	0.000202	0.000207	0.000293	0.000621	0.001770	0.001470	0.001660
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**	**0.2**	**0.1**	**0.2**

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	0.014	0.012	0.007	0.036	0.049	0.049	0.048	0.047	0.046	0.044	0.072	0.018
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**	**0.4**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.4**	**0.7**	**0.2**
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	0.027	0.036	0.067	0.033	0.034	0.035	0.056	0.049	0.036	0.039	0.036	0.026
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**	**0.4**	**0.7**	**0.3**	**0.3**	**0.4**	**0.6**	**0.5**	**0.4**	**0.4**	**0.4**	**0.3**

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 2

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	1.0	0	2.0	0	0	1.0	0	0
Critical hours	1908.5	2159.0	1099.1	2208.0	2209.0	2130.7	2184.0	1633.0
Indicator value	**0.8**	**0.8**	**2.8**	**2.8**	**1.8**	**2.7**	**0.8**	**0.9**

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	1.0	0	0	0	0	0	0	0
Critical hours	1908.5	2159.0	1099.1	2208.0	2209.0	2130.7	2184.0	1633.0
Indicator value	**0.8**	**0.8**	**0.9**	**0.9**	**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)	-1.39E-08	1.70E-09	2.73E-09	3.30E-09	2.28E-09	-1.17E-08	-1.17E-08	-1.18E-08
URI (ΔCDF)	3.32E-07	3.32E-07	3.32E-07	3.32E-07	3.32E-07	2.48E-07	2.43E-07	-7.94E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.20E-07**	**3.30E-07**	**3.30E-07**	**3.40E-07**	**3.30E-07**	**2.40E-07**	**2.30E-07**	**-9.10E-08**

Licensee Comments:

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/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**
UAI (ΔCDF)	-6.39E-08	-6.06E-08	-5.87E-08	-5.93E-08	-5.72E-08	-1.35E-08	-2.51E-08	-8.68E-11
URI (ΔCDF)	4.60E-08	1.67E-08	-1.27E-08	-1.27E-08	-1.27E-08	-1.30E-08	-1.35E-08	-9.54E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.80E-08**	**-4.40E-08**	**-7.10E-08**	**-7.20E-08**	**-7.00E-08**	**-2.70E-08**	**-3.90E-08**	**-9.60E-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)	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-2.77E-09	-2.77E-09	-2.78E-09
URI (ΔCDF)	-1.24E-08	-1.24E-08	-1.19E-08	-1.19E-08	-1.19E-08	-7.45E-09	-7.50E-09	-5.85E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.80E-08**	**-1.80E-08**	**-1.70E-08**	**-1.70E-08**	**-1.70E-08**	**-1.00E-08**	**-1.00E-08**	**-8.60E-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)	-2.68E-09	-2.69E-09	-2.68E-09	-2.68E-09	-1.85E-09	-3.75E-09	-3.75E-09	-3.77E-09
URI (ΔCDF)	-7.75E-09	-7.53E-09	-7.09E-09	-7.09E-09	-7.09E-09	-8.36E-09	-8.36E-09	-8.24E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-08**	**-1.00E-08**	**-9.80E-09**	**-9.80E-09**	**-8.90E-09**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**

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)	-6.17E-11	-6.18E-11	-6.17E-11	-6.17E-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	-2.17E-09	-2.17E-09	-1.00E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.40E-10**	**-2.40E-09**	**-2.40E-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	**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	0.000262	0.000230	0.000222	0.000235	0.000245	0.000256	0.000274	0.000161	0.000139	0.000230	0.000155	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**
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	0.000167	0.000193	0.000202	0.000207	0.000293	0.000621	0.001770	0.001470	0.001660	0.002150	0.004240	0.004120
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**	**0.2**	**0.1**	**0.2**	**0.2**	**0.4**	**0.4**

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	0.036	0.049	0.049	0.048	0.047	0.046	0.044	0.072	0.018	0.027	0.036	0.067
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**	**0.5**	**0.5**	**0.5**	**0.5**	**0.5**	**0.4**	**0.7**	**0.2**	**0.3**	**0.4**	**0.7**
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	0.033	0.034	0.035	0.056	0.049	0.036	0.039	0.036	0.026	0.046	0.048	0.021
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**	**0.3**	**0.4**	**0.6**	**0.5**	**0.4**	**0.4**	**0.4**	**0.3**	**0.5**	**0.5**	**0.2**

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

Occupational Exposure Control Effectiveness

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 2

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	2.0	0	0	1.0	0	0	0
Critical hours	2159.0	1099.1	2208.0	2209.0	2130.7	2184.0	1633.0	1988.4
Indicator value	**0.8**	**2.8**	**2.8**	**1.8**	**2.7**	**0.8**	**0.9**	**0.9**

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	0
Critical hours	2159.0	1099.1	2208.0	2209.0	2130.7	2184.0	1633.0	1988.4
Indicator value	**0.8**	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**

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)	1.70E-09	2.73E-09	3.30E-09	2.28E-09	-1.17E-08	-1.17E-08	-1.18E-08	-1.18E-08
URI (ΔCDF)	3.32E-07	3.32E-07	3.32E-07	3.32E-07	2.48E-07	2.43E-07	-7.94E-08	-7.94E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.30E-07**	**3.30E-07**	**3.40E-07**	**3.30E-07**	**2.40E-07**	**2.30E-07**	**-9.10E-08**	**-9.10E-08**

Licensee Comments:

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/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	-6.06E-08	-5.87E-08	-5.93E-08	-5.72E-08	-1.35E-08	-2.51E-08	-8.68E-11	-1.06E-10
URI (ΔCDF)	1.67E-08	-1.27E-08	-1.27E-08	-1.27E-08	-1.30E-08	-1.35E-08	-9.54E-09	-9.87E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.40E-08**	**-7.10E-08**	**-7.20E-08**	**-7.00E-08**	**-2.70E-08**	**-3.90E-08**	**-9.60E-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)	-5.23E-09	-5.23E-09	-5.23E-09	-5.23E-09	-2.77E-09	-2.77E-09	-2.78E-09	-2.78E-09
URI (ΔCDF)	-1.24E-08	-1.19E-08	-1.19E-08	-1.19E-08	-7.45E-09	-7.50E-09	-5.85E-09	-5.85E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.80E-08**	**-1.70E-08**	**-1.70E-08**	**-1.70E-08**	**-1.00E-08**	**-1.00E-08**	**-8.60E-09**	**-8.60E-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)	-2.69E-09	-2.68E-09	-2.68E-09	-1.85E-09	-3.75E-09	-3.75E-09	-3.77E-09	-3.82E-09
URI (ΔCDF)	-7.53E-09	-7.09E-09	-7.09E-09	-7.09E-09	-8.36E-09	-8.36E-09	-8.24E-09	-8.24E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-08**	**-9.80E-09**	**-9.80E-09**	**-8.90E-09**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**

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)	-6.18E-11	-6.17E-11	-6.17E-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	-2.17E-09	-2.17E-09	-1.00E-09	-1.00E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-10**	**-5.20E-10**	**-5.20E-10**	**-5.40E-10**	**-2.40E-09**	**-2.40E-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	**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	0.000235	0.000245	0.000256	0.000274	0.000161	0.000139	0.000230	0.000155	0.000168	0.000167	0.000193	0.000202
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	0.000207	0.000293	0.000621	0.001770	0.001470	0.001660	0.002150	0.004240	0.004120	0.001680	0.001150	0.001260
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**	**0.2**	**0.1**	**0.2**	**0.2**	**0.4**	**0.4**	**0.2**	**0.1**	**0.1**

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	0.048	0.047	0.046	0.044	0.072	0.018	0.027	0.036	0.067	0.033	0.034	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	**0.5**	**0.5**	**0.5**	**0.4**	**0.7**	**0.2**	**0.3**	**0.4**	**0.7**	**0.3**	**0.3**	**0.4**
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	0.056	0.049	0.036	0.039	0.036	0.026	0.046	0.048	0.021	0.420	0.062	0.065
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**	**0.5**	**0.4**	**0.4**	**0.4**	**0.3**	**0.5**	**0.5**	**0.2**	**4.2**	**0.6**	**0.7**

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

Occupational Exposure Control Effectiveness

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 2

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	2.0	0	0	1.0	0	0	0	0
Critical hours	1099.1	2208.0	2209.0	2130.7	2184.0	1633.0	1988.4	2159.0
Indicator value	**2.8**	**2.8**	**1.8**	**2.7**	**0.8**	**0.9**	**0.9**	**0**

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	0	0
Critical hours	1099.1	2208.0	2209.0	2130.7	2184.0	1633.0	1988.4	2159.0
Indicator value	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**

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)	2.73E-09	3.30E-09	2.28E-09	-1.17E-08	-1.17E-08	-1.18E-08	-1.18E-08	-1.18E-08
URI (ΔCDF)	3.32E-07	3.32E-07	3.32E-07	2.48E-07	2.43E-07	-7.94E-08	-7.94E-08	-7.94E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.30E-07**	**3.40E-07**	**3.30E-07**	**2.40E-07**	**2.30E-07**	**-9.10E-08**	**-9.10E-08**	**-9.10E-08**

Licensee Comments:

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	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	-5.87E-08	-5.93E-08	-5.72E-08	-1.35E-08	-2.51E-08	-8.68E-11	-1.06E-10	-5.73E-11
URI (ΔCDF)	-1.27E-08	-1.27E-08	-1.27E-08	-1.30E-08	-1.35E-08	-9.54E-09	-9.87E-09	-1.02E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.10E-08**	**-7.20E-08**	**-7.00E-08**	**-2.70E-08**	**-3.90E-08**	**-9.60E-09**	**-1.00E-08**	**-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	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	-5.23E-09	-5.23E-09	-5.23E-09	-2.77E-09	-2.77E-09	-2.78E-09	-2.78E-09	-2.78E-09
URI (ΔCDF)	-1.19E-08	-1.19E-08	-1.19E-08	-7.45E-09	-7.50E-09	-5.85E-09	-5.85E-09	-5.93E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-08**	**-1.70E-08**	**-1.70E-08**	**-1.00E-08**	**-1.00E-08**	**-8.60E-09**	**-8.60E-09**	**-8.70E-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	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	-2.68E-09	-2.68E-09	-1.85E-09	-3.75E-09	-3.75E-09	-3.77E-09	-3.82E-09	-3.82E-09
URI (ΔCDF)	-7.09E-09	-7.09E-09	-7.09E-09	-8.36E-09	-8.36E-09	-8.24E-09	-8.24E-09	-8.24E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.80E-09**	**-9.80E-09**	**-8.90E-09**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**

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)	-6.17E-11	-6.17E-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	-2.17E-09	-2.17E-09	-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**	**-2.40E-09**	**-2.40E-09**	**-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	0.000274	0.000161	0.000139	0.000230	0.000155	0.000168	0.000167	0.000193	0.000202	0.000207	0.000293	0.000621
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	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**
Maximum activity	0.001770	0.001470	0.001660	0.002150	0.004240	0.004120	0.001680	0.001150	0.001260	0.001360	0.001460	0.001560
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**	**0.2**	**0.2**	**0.4**	**0.4**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**

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	0.044	0.072	0.018	0.027	0.036	0.067	0.033	0.034	0.035	0.056	0.049	0.036
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**	**0.7**	**0.2**	**0.3**	**0.4**	**0.7**	**0.3**	**0.3**	**0.4**	**0.6**	**0.5**	**0.4**
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	0.039	0.036	0.026	0.046	0.048	0.021	0.420	0.062	0.065	0.070	0.072	0.090
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**	**0.3**	**0.5**	**0.5**	**0.2**	**4.2**	**0.6**	**0.7**	**0.7**	**0.7**	**0.9**

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 2

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	0	1.0	0	0	0	0	0
Critical hours	2208.0	2209.0	2130.7	2184.0	1633.0	1988.4	2159.0	2184.0
Indicator value	**2.8**	**1.8**	**2.7**	**0.8**	**0.9**	**0.9**	**0**	**0**

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	0	0	0
Critical hours	2208.0	2209.0	2130.7	2184.0	1633.0	1988.4	2159.0	2184.0
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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)	3.30E-09	2.28E-09	-1.17E-08	-1.17E-08	-1.18E-08	-1.18E-08	-1.18E-08	-1.24E-08
URI (ΔCDF)	3.32E-07	3.32E-07	2.48E-07	2.43E-07	-7.94E-08	-7.94E-08	-7.94E-08	-1.02E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.40E-07**	**3.30E-07**	**2.40E-07**	**2.30E-07**	**-9.10E-08**	**-9.10E-08**	**-9.10E-08**	**-1.10E-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	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	-5.93E-08	-5.72E-08	-1.35E-08	-2.51E-08	-8.68E-11	-1.06E-10	-5.73E-11	-4.61E-10
URI (ΔCDF)	-1.27E-08	-1.27E-08	-1.30E-08	-1.35E-08	-9.54E-09	-9.87E-09	-1.02E-08	-1.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.20E-08**	**-7.00E-08**	**-2.70E-08**	**-3.90E-08**	**-9.60E-09**	**-1.00E-08**	**-1.00E-08**	**-1.30E-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)	-5.23E-09	-5.23E-09	-2.77E-09	-2.77E-09	-2.78E-09	-2.78E-09	-2.78E-09	-2.81E-09
URI (ΔCDF)	-1.19E-08	-1.19E-08	-7.45E-09	-7.50E-09	-5.85E-09	-5.85E-09	-5.93E-09	-6.95E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-08**	**-1.70E-08**	**-1.00E-08**	**-1.00E-08**	**-8.60E-09**	**-8.60E-09**	**-8.70E-09**	**-9.80E-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)	-2.68E-09	-1.85E-09	-3.75E-09	-3.75E-09	-3.77E-09	-3.82E-09	-3.82E-09	-3.08E-09
URI (ΔCDF)	-7.09E-09	-7.09E-09	-8.36E-09	-8.36E-09	-8.24E-09	-8.24E-09	-8.24E-09	-8.84E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.80E-09**	**-8.90E-09**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-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	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	-6.17E-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	-2.17E-09	-2.17E-09	-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**	**-2.40E-09**	**-2.40E-09**	**-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	0.000230	0.000155	0.000168	0.000167	0.000193	0.000202	0.000207	0.000293	0.000621	0.001770	0.001470	0.001660
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**	**0.2**	**0.1**	**0.2**

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	0.002150	0.004240	0.004120	0.001680	0.001150	0.001260	0.001360	0.001460	0.001560	0.001640	0.001690	0.001770
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**	**0.4**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**

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	0.027	0.036	0.067	0.033	0.034	0.035	0.056	0.049	0.036	0.039	0.036	0.026
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**	**0.4**	**0.7**	**0.3**	**0.3**	**0.4**	**0.6**	**0.5**	**0.4**	**0.4**	**0.4**	**0.3**
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	0.046	0.048	0.021	0.420	0.062	0.065	0.070	0.072	0.090	0.093	0.102	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**	**0.5**	**0.2**	**4.2**	**0.6**	**0.7**	**0.7**	**0.7**	**0.9**	**0.9**	**1.0**	**1.1**

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 2

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	0	1.0	0	0	0	0	0	0
Critical hours	2209.0	2130.7	2184.0	1633.0	1988.4	2159.0	2184.0	2208.0
Indicator value	**1.8**	**2.7**	**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/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2209.0	2130.7	2184.0	1633.0	1988.4	2159.0	2184.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

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)	2.28E-09	-1.17E-08	-1.17E-08	-1.18E-08	-1.18E-08	-1.18E-08	-1.24E-08	5.55E-09
URI (ΔCDF)	3.32E-07	2.48E-07	2.43E-07	-7.94E-08	-7.94E-08	-7.94E-08	-1.02E-07	-1.18E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.30E-07**	**2.40E-07**	**2.30E-07**	**-9.10E-08**	**-9.10E-08**	**-9.10E-08**	**-1.10E-07**	**-1.10E-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)	-5.72E-08	-1.35E-08	-2.51E-08	-8.68E-11	-1.06E-10	-5.73E-11	-4.61E-10	-8.19E-10
URI (ΔCDF)	-1.27E-08	-1.30E-08	-1.35E-08	-9.54E-09	-9.87E-09	-1.02E-08	-1.27E-08	-1.51E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.00E-08**	**-2.70E-08**	**-3.90E-08**	**-9.60E-09**	**-1.00E-08**	**-1.00E-08**	**-1.30E-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)	-5.23E-09	-2.77E-09	-2.77E-09	-2.78E-09	-2.78E-09	-2.78E-09	-2.81E-09	-3.26E-09
URI (ΔCDF)	-1.19E-08	-7.45E-09	-7.50E-09	-5.85E-09	-5.85E-09	-5.93E-09	-6.95E-09	-8.06E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-08**	**-1.00E-08**	**-1.00E-08**	**-8.60E-09**	**-8.60E-09**	**-8.70E-09**	**-9.80E-09**	**-1.10E-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)	-1.85E-09	-3.75E-09	-3.75E-09	-3.77E-09	-3.82E-09	-3.82E-09	-3.08E-09	-3.94E-09
URI (ΔCDF)	-7.09E-09	-8.36E-09	-8.36E-09	-8.24E-09	-8.24E-09	-8.24E-09	-8.84E-09	-1.02E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.90E-09**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-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	**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	-2.17E-09	-2.17E-09	-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**	**-2.40E-09**	**-2.40E-09**	**-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	0.000167	0.000193	0.000202	0.000207	0.000293	0.000621	0.001770	0.001470	0.001660	0.002150	0.004240	0.004120
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**	**0.2**	**0.1**	**0.2**	**0.2**	**0.4**	**0.4**

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	0.001680	0.001150	0.001260	0.001360	0.001460	0.001560	0.001640	0.001690	0.001770	0.001830	0.001890	0.001970
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**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

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	0.033	0.034	0.035	0.056	0.049	0.036	0.039	0.036	0.026	0.046	0.048	0.021
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**	**0.3**	**0.4**	**0.6**	**0.5**	**0.4**	**0.4**	**0.4**	**0.3**	**0.5**	**0.5**	**0.2**
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	0.420	0.062	0.065	0.070	0.072	0.090	0.093	0.102	0.109	0.107	0.113	0.120
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	**4.2**	**0.6**	**0.7**	**0.7**	**0.7**	**0.9**	**0.9**	**1.0**	**1.1**	**1.1**	**1.1**	**1.2**

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

Occupational Exposure Control Effectiveness

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 2

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	1.0	0	0	0	0	0	0	0
Critical hours	2130.7	2184.0	1633.0	1988.4	2159.0	2184.0	2208.0	2209.0
Indicator value	**2.7**	**0.8**	**0.9**	**0.9**	**0**	**0**	**0**	**0**

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	0	0	0	0	0
Critical hours	2130.7	2184.0	1633.0	1988.4	2159.0	2184.0	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**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	1
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**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/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	5.55E-09	-1.43E-08
URI (ΔCDF)	2.48E-07	2.43E-07	-7.94E-08	-7.94E-08	-7.94E-08	-1.02E-07	-1.18E-07	-1.18E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.40E-07**	**2.30E-07**	**-9.10E-08**	**-9.10E-08**	**-9.10E-08**	**-1.10E-07**	**-1.10E-07**	**-1.30E-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)	-1.35E-08	-2.51E-08	-8.68E-11	-1.06E-10	-5.73E-11	-4.61E-10	-8.19E-10	-1.24E-09
URI (ΔCDF)	-1.30E-08	-1.35E-08	-9.54E-09	-9.87E-09	-1.02E-08	-1.27E-08	-1.51E-08	-1.55E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.70E-08**	**-3.90E-08**	**-9.60E-09**	**-1.00E-08**	**-1.00E-08**	**-1.30E-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)	-2.77E-09	-2.77E-09	-2.78E-09	-2.78E-09	-2.78E-09	-2.81E-09	-3.26E-09	-3.26E-09
URI (ΔCDF)	-7.45E-09	-7.50E-09	-5.85E-09	-5.85E-09	-5.93E-09	-6.95E-09	-8.06E-09	-7.72E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-08**	**-1.00E-08**	**-8.60E-09**	**-8.60E-09**	**-8.70E-09**	**-9.80E-09**	**-1.10E-08**	**-1.10E-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)	-3.75E-09	-3.75E-09	-3.77E-09	-3.82E-09	-3.82E-09	-3.08E-09	-3.94E-09	-3.95E-09
URI (ΔCDF)	-8.36E-09	-8.36E-09	-8.24E-09	-8.24E-09	-8.24E-09	-8.84E-09	-1.02E-08	-1.02E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-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)	-2.17E-09	-2.17E-09	-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	**-2.40E-09**	**-2.40E-09**	**-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).

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	0.000207	0.000293	0.000621	0.001770	0.001470	0.001660	0.002150	0.004240	0.004120	0.001680	0.001150	0.001260
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**	**0.2**	**0.1**	**0.2**	**0.2**	**0.4**	**0.4**	**0.2**	**0.1**	**0.1**
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	0.001360	0.001460	0.001560	0.001640	0.001690	0.001770	0.001830	0.001890	0.001970	0.002030	0.002090	0.002200
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**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

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	0.056	0.049	0.036	0.039	0.036	0.026	0.046	0.048	0.021	0.420	0.062	0.065
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**	**0.5**	**0.4**	**0.4**	**0.4**	**0.3**	**0.5**	**0.5**	**0.2**	**4.2**	**0.6**	**0.7**
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	0.070	0.072	0.090	0.093	0.102	0.109	0.107	0.113	0.120	0.112	0.109	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	**0.7**	**0.7**	**0.9**	**0.9**	**1.0**	**1.1**	**1.1**	**1.1**	**1.2**	**1.1**	**1.1**	**1.1**

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 2

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	0	0	0	0	0
Critical hours	2184.0	1633.0	1988.4	2159.0	2184.0	2208.0	2209.0	1562.8
Indicator value	**0.8**	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**

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	0	0	0	0	0	0
Critical hours	2184.0	1633.0	1988.4	2159.0	2184.0	2208.0	2209.0	1562.8
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**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	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/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	5.55E-09	-1.43E-08	-1.43E-08
URI (ΔCDF)	2.43E-07	-7.94E-08	-7.94E-08	-7.94E-08	-1.02E-07	-1.18E-07	-1.18E-07	-1.25E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.30E-07**	**-9.10E-08**	**-9.10E-08**	**-9.10E-08**	**-1.10E-07**	**-1.10E-07**	**-1.30E-07**	**-1.40E-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)	-2.51E-08	-8.68E-11	-1.06E-10	-5.73E-11	-4.61E-10	-8.19E-10	-1.24E-09	-1.41E-09
URI (ΔCDF)	-1.35E-08	-9.54E-09	-9.87E-09	-1.02E-08	-1.27E-08	-1.51E-08	-1.55E-08	-1.58E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.90E-08**	**-9.60E-09**	**-1.00E-08**	**-1.00E-08**	**-1.30E-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	-2.81E-09	-3.26E-09	-3.26E-09	-3.26E-09
URI (ΔCDF)	-7.50E-09	-5.85E-09	-5.85E-09	-5.93E-09	-6.95E-09	-8.06E-09	-7.72E-09	-7.72E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-08**	**-8.60E-09**	**-8.60E-09**	**-8.70E-09**	**-9.80E-09**	**-1.10E-08**	**-1.10E-08**	**-1.10E-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)	-3.75E-09	-3.77E-09	-3.82E-09	-3.82E-09	-3.08E-09	-3.94E-09	-3.95E-09	-3.92E-09
URI (ΔCDF)	-8.36E-09	-8.24E-09	-8.24E-09	-8.24E-09	-8.84E-09	-1.02E-08	-1.02E-08	-1.08E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.40E-08**	**-1.40E-08**	**-1.50E-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)	-2.17E-09	-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	**-2.40E-09**	**-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	0.001770	0.001470	0.001660	0.002150	0.004240	0.004120	0.001680	0.001150	0.001260	0.001360	0.001460	0.001560
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**	**0.2**	**0.2**	**0.4**	**0.4**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**

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	0.001640	0.001690	0.001770	0.001830	0.001890	0.001970	0.002030	0.002090	0.002200	0.002200	0.002300	0.002030
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**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

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	0.039	0.036	0.026	0.046	0.048	0.021	0.420	0.062	0.065	0.070	0.072	0.090
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**	**0.3**	**0.5**	**0.5**	**0.2**	**4.2**	**0.6**	**0.7**	**0.7**	**0.7**	**0.9**
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	0.093	0.102	0.109	0.107	0.113	0.120	0.112	0.109	0.107	0.104	0.130	0.129
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**	**1.1**	**1.1**	**1.1**	**1.2**	**1.1**	**1.1**	**1.1**	**1.0**	**1.3**	**1.3**

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 2

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	0	0	0	0	0	0
Critical hours	1633.0	1988.4	2159.0	2184.0	2208.0	2209.0	1562.8	1975.9
Indicator value	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**	**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	0	0	0	0	0	0	0
Critical hours	1633.0	1988.4	2159.0	2184.0	2208.0	2209.0	1562.8	1975.9
Indicator value	**0**	**0**	**0**	**0**	**0**	**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	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/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	5.55E-09	-1.43E-08	-1.43E-08	-2.52E-08
URI (ΔCDF)	-7.94E-08	-7.94E-08	-7.94E-08	-1.02E-07	-1.18E-07	-1.18E-07	-1.25E-07	-2.14E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.10E-08**	**-9.10E-08**	**-9.10E-08**	**-1.10E-07**	**-1.10E-07**	**-1.30E-07**	**-1.40E-07**	**-2.40E-07**

Licensee Comments:

2Q/16: 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)	-8.68E-11	-1.06E-10	-5.73E-11	-4.61E-10	-8.19E-10	-1.24E-09	-1.41E-09	-1.48E-09
URI (ΔCDF)	-9.54E-09	-9.87E-09	-1.02E-08	-1.27E-08	-1.51E-08	-1.55E-08	-1.58E-08	-1.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.60E-09**	**-1.00E-08**	**-1.00E-08**	**-1.30E-08**	**-1.60E-08**	**-1.70E-08**	**-1.70E-08**	**-1.40E-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	-2.81E-09	-3.26E-09	-3.26E-09	-3.26E-09	-3.98E-09
URI (ΔCDF)	-5.85E-09	-5.85E-09	-5.93E-09	-6.95E-09	-8.06E-09	-7.72E-09	-7.72E-09	-8.90E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.60E-09**	**-8.60E-09**	**-8.70E-09**	**-9.80E-09**	**-1.10E-08**	**-1.10E-08**	**-1.10E-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)	-3.77E-09	-3.82E-09	-3.82E-09	-3.08E-09	-3.94E-09	-3.95E-09	-3.92E-09	-6.54E-09
URI (ΔCDF)	-8.24E-09	-8.24E-09	-8.24E-09	-8.84E-09	-1.02E-08	-1.02E-08	-1.08E-08	-1.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.40E-08**	**-1.40E-08**	**-1.50E-08**	**-2.60E-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).

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	0.002150	0.004240	0.004120	0.001680	0.001150	0.001260	0.001360	0.001460	0.001560	0.001640	0.001690	0.001770
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**	**0.4**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**
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	0.001830	0.001890	0.001970	0.002030	0.002090	0.002200	0.002200	0.002300	0.002030	0.000810	0.000833	0.000834
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**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**

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	0.046	0.048	0.021	0.420	0.062	0.065	0.070	0.072	0.090	0.093	0.102	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**	**0.5**	**0.2**	**4.2**	**0.6**	**0.7**	**0.7**	**0.7**	**0.9**	**0.9**	**1.0**	**1.1**
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	0.107	0.113	0.120	0.112	0.109	0.107	0.104	0.130	0.129	0.085	0.091	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	**1.1**	**1.1**	**1.2**	**1.1**	**1.1**	**1.1**	**1.0**	**1.3**	**1.3**	**0.9**	**0.9**	**1.0**

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 2

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	0	0	0	0	0	0	0
Critical hours	1988.4	2159.0	2184.0	2208.0	2209.0	1562.8	1975.9	2116.3
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0**	**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	0	0	0	0	0	0	0	1.0
Critical hours	1988.4	2159.0	2184.0	2208.0	2209.0	1562.8	1975.9	2116.3
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**

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	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/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	5.55E-09	-1.43E-08	-1.43E-08	-2.52E-08	-4.82E-09
URI (ΔCDF)	-7.94E-08	-7.94E-08	-1.02E-07	-1.18E-07	-1.18E-07	-1.25E-07	-2.14E-07	-4.03E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.10E-08**	**-9.10E-08**	**-1.10E-07**	**-1.10E-07**	**-1.30E-07**	**-1.40E-07**	**-2.40E-07**	**-4.50E-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, 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)	-1.06E-10	-5.73E-11	-4.61E-10	-8.19E-10	-1.24E-09	-1.41E-09	-1.48E-09	-7.98E-11
URI (ΔCDF)	-9.87E-09	-1.02E-08	-1.27E-08	-1.51E-08	-1.55E-08	-1.58E-08	-1.30E-08	-2.58E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-08**	**-1.00E-08**	**-1.30E-08**	**-1.60E-08**	**-1.70E-08**	**-1.70E-08**	**-1.40E-08**	**-2.70E-09**

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	-2.81E-09	-3.26E-09	-3.26E-09	-3.26E-09	-3.98E-09	-4.25E-09
URI (ΔCDF)	-5.85E-09	-5.93E-09	-6.95E-09	-8.06E-09	-7.72E-09	-7.72E-09	-8.90E-09	-9.51E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.60E-09**	**-8.70E-09**	**-9.80E-09**	**-1.10E-08**	**-1.10E-08**	**-1.10E-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)	-3.82E-09	-3.82E-09	-3.08E-09	-3.94E-09	-3.95E-09	-3.92E-09	-6.54E-09	-6.46E-09
URI (ΔCDF)	-8.24E-09	-8.24E-09	-8.84E-09	-1.02E-08	-1.02E-08	-1.08E-08	-1.90E-08	-1.89E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.20E-08**	**-1.20E-08**	**-1.40E-08**	**-1.40E-08**	**-1.50E-08**	**-2.60E-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	-1.23E-10
URI (ΔCDF)	-1.00E-09	-1.00E-09	-2.34E-09	-2.71E-09	-2.71E-09	-2.71E-09	-6.09E-10	-3.26E-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**	**-4.50E-10**

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	0.001680	0.001150	0.001260	0.001360	0.001460	0.001560	0.001640	0.001690	0.001770	0.001830	0.001890	0.001970
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**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
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	0.002030	0.002090	0.002200	0.002200	0.002300	0.002030	0.000810	0.000833	0.000834	0.000884	0.000913	0.000933
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**	**0.2**	**0.2**	**0.2**	**0.2**	**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	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	0.420	0.062	0.065	0.070	0.072	0.090	0.093	0.102	0.109	0.107	0.113	0.120
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	**4.2**	**0.6**	**0.7**	**0.7**	**0.7**	**0.9**	**0.9**	**1.0**	**1.1**	**1.1**	**1.1**	**1.2**
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	0.112	0.109	0.107	0.104	0.130	0.129	0.085	0.091	0.098	0.113	0.092	0.120
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**	**1.1**	**1.0**	**1.3**	**1.3**	**0.9**	**0.9**	**1.0**	**1.1**	**0.9**	**1.2**

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 2

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	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	2209.0	1562.8	1975.9	2116.3	2209.0
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/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	2159.0	2184.0	2208.0	2209.0	1562.8	1975.9	2116.3	2209.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**

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	1	0	0	0	0
Indicator value	**0**	**0**	**0**	**1**	**1**	**1**	**1**	**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	5.55E-09	-1.43E-08	-1.43E-08	-2.52E-08	-4.82E-09	-4.82E-09
URI (ΔCDF)	-7.94E-08	-1.02E-07	-1.18E-07	-1.18E-07	-1.25E-07	-2.14E-07	-4.03E-08	-4.03E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.10E-08**	**-1.10E-07**	**-1.10E-07**	**-1.30E-07**	**-1.40E-07**	**-2.40E-07**	**-4.50E-08**	**-4.50E-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, 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)	-5.73E-11	-4.61E-10	-8.19E-10	-1.24E-09	-1.41E-09	-1.48E-09	-7.98E-11	-7.98E-11
URI (ΔCDF)	-1.02E-08	-1.27E-08	-1.51E-08	-1.55E-08	-1.58E-08	-1.30E-08	-2.58E-09	-2.59E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-08**	**-1.30E-08**	**-1.60E-08**	**-1.70E-08**	**-1.70E-08**	**-1.40E-08**	**-2.70E-09**	**-2.70E-09**

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	-2.81E-09	-3.26E-09	-3.26E-09	-3.26E-09	-3.98E-09	-4.25E-09	-4.25E-09
URI (ΔCDF)	-5.93E-09	-6.95E-09	-8.06E-09	-7.72E-09	-7.72E-09	-8.90E-09	-9.51E-09	-9.56E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.70E-09**	**-9.80E-09**	**-1.10E-08**	**-1.10E-08**	**-1.10E-08**	**-1.30E-08**	**-1.40E-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	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	-3.82E-09	-3.08E-09	-3.94E-09	-3.95E-09	-3.92E-09	-6.54E-09	-6.46E-09	-8.19E-09
URI (ΔCDF)	-8.24E-09	-8.84E-09	-1.02E-08	-1.02E-08	-1.08E-08	-1.90E-08	-1.89E-08	-1.89E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.20E-08**	**-1.40E-08**	**-1.40E-08**	**-1.50E-08**	**-2.60E-08**	**-2.50E-08**	**-2.70E-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	-1.23E-10	-1.23E-10
URI (ΔCDF)	-1.00E-09	-2.34E-09	-2.71E-09	-2.71E-09	-2.71E-09	-6.09E-10	-3.26E-10	-3.26E-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**	**-4.50E-10**	**-4.50E-10**

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	0.001360	0.001460	0.001560	0.001640	0.001690	0.001770	0.001830	0.001890	0.001970	0.002030	0.002090	0.002200
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**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
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	0.002200	0.002300	0.002030	0.000810	0.000833	0.000834	0.000884	0.000913	0.000933	0.000952	0.000949	0.000995
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**	**0.2**	**0.1**	**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	**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	0.070	0.072	0.090	0.093	0.102	0.109	0.107	0.113	0.120	0.112	0.109	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	**0.7**	**0.7**	**0.9**	**0.9**	**1.0**	**1.1**	**1.1**	**1.1**	**1.2**	**1.1**	**1.1**	**1.1**
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	0.104	0.130	0.129	0.085	0.091	0.098	0.113	0.092	0.120	0.101	0.113	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	**1.0**	**1.3**	**1.3**	**0.9**	**0.9**	**1.0**	**1.1**	**0.9**	**1.2**	**1.0**	**1.1**	**1.2**

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 2 – 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)
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- Reactor Coolant System Activity (BI01)
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- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	1562.8	1975.9	2116.3	2209.0	2159.0
Indicator value	**0**	**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	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2184.0	2208.0	2209.0	1562.8	1975.9	2116.3	2209.0	2159.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.8**

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	1	0	0	0	0	0
Indicator value	**0**	**0**	**1**	**1**	**1**	**1**	**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	5.55E-09	-1.43E-08	-1.43E-08	-2.52E-08	-4.82E-09	-4.82E-09	-4.82E-09
URI (ΔCDF)	-1.02E-07	-1.18E-07	-1.18E-07	-1.25E-07	-2.14E-07	-4.03E-08	-4.03E-08	-4.03E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.10E-07**	**-1.30E-07**	**-1.40E-07**	**-2.40E-07**	**-4.50E-08**	**-4.50E-08**	**-4.50E-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, 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)	-4.61E-10	-8.19E-10	-1.24E-09	-1.41E-09	-1.48E-09	-7.98E-11	-7.98E-11	-7.98E-11
URI (ΔCDF)	-1.27E-08	-1.51E-08	-1.55E-08	-1.58E-08	-1.30E-08	-2.58E-09	-2.59E-09	-2.59E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value								

	-1.30E-08	**-1.60E-08**	**-1.70E-08**	**-1.70E-08**	**-1.40E-08**	**-2.70E-09**	**-2.70E-09**	**-2.70E-09**

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)	-2.81E-09	-3.26E-09	-3.26E-09	-3.26E-09	-3.98E-09	-4.25E-09	-4.25E-09	-4.25E-09
URI (ΔCDF)	-6.95E-09	-8.06E-09	-7.72E-09	-7.72E-09	-8.90E-09	-9.51E-09	-9.56E-09	-9.17E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.80E-09**	**-1.10E-08**	**-1.10E-08**	**-1.10E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-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)	-3.08E-09	-3.94E-09	-3.95E-09	-3.92E-09	-6.54E-09	-6.46E-09	-8.19E-09	-8.19E-09
URI (ΔCDF)	-8.84E-09	-1.02E-08	-1.02E-08	-1.08E-08	-1.90E-08	-1.89E-08	-1.89E-08	-1.89E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-08**	**-1.40E-08**	**-1.40E-08**	**-1.50E-08**	**-2.60E-08**	**-2.50E-08**	**-2.70E-08**	**-2.70E-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	-1.23E-10	-1.23E-10	-1.23E-10
URI (ΔCDF)	-2.34E-09	-2.71E-09	-2.71E-09	-2.71E-09	-6.09E-10	-3.26E-10	-3.26E-10	-3.26E-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**	**-4.50E-10**	**-4.50E-10**	**-4.50E-10**

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	0.001640	0.001690	0.001770	0.001830	0.001890	0.001970	0.002030	0.002090	0.002200	0.002200	0.002300	0.002030
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**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

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	0.000810	0.000833	0.000834	0.000884	0.000913	0.000933	0.000952	0.000949	0.000995	0.000998	0.001020	0.001060
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**

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	0.093	0.102	0.109	0.107	0.113	0.120	0.112	0.109	0.107	0.104	0.130	0.129
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**	**1.1**	**1.1**	**1.1**	**1.2**	**1.1**	**1.1**	**1.1**	**1.0**	**1.3**	**1.3**

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	0.085	0.091	0.098	0.113	0.092	0.120	0.101	0.113	0.123	0.127	0.134	0.140
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**	**0.9**	**1.0**	**1.1**	**0.9**	**1.2**	**1.0**	**1.1**	**1.2**	**1.3**	**1.3**	**1.4**

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

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

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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 2 – Quarterly Performance Indicators

2Q/2017 Performance Indicators

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- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
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- Reactor Coolant System Activity (BI01)
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- Drill/Exercise Performance (EP01)
- Emergency Response Organization Drill Participation (EP02)
- Alert and Notification System Reliability (EP03)
- Occupational Exposure Control Effectiveness (OR01)
- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

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	1562.8	1975.9	2116.3	2209.0	2159.0	2184.0
Indicator value	**0**	**0**	**0**	**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	1.0	0	0	0
Critical hours	2208.0	2209.0	1562.8	1975.9	2116.3	2209.0	2159.0	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.8**	**0.8**

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	1	0	0	0	0	0	0
Indicator value	**0**	**1**	**1**	**1**	**1**	**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)	5.55E-09	-1.43E-08	-1.43E-08	-2.52E-08	-4.82E-09	-4.82E-09	-4.82E-09	-4.82E-09
URI (ΔCDF)	-1.18E-07	-1.18E-07	-1.25E-07	-2.14E-07	-4.03E-08	-4.03E-08	-4.03E-08	-3.93E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.30E-07**	**-1.40E-07**	**-2.40E-07**	**-4.50E-08**	**-4.50E-08**	**-4.50E-08**	**-4.40E-08**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: 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)	-8.19E-10	-1.24E-09	-1.41E-09	-1.48E-09	-7.98E-11	-7.98E-11	-7.98E-11	-7.98E-11
URI (ΔCDF)	-1.51E-08	-1.55E-08	-1.58E-08	-1.30E-08	-2.58E-09	-2.59E-09	-2.59E-09	-2.58E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-08**	**-1.70E-08**	**-1.70E-08**	**-1.40E-08**	**-2.70E-09**	**-2.70E-09**	**-2.70E-09**	**-2.70E-09**

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)	-3.26E-09	-3.26E-09	-3.26E-09	-3.98E-09	-4.25E-09	-4.25E-09	-4.25E-09	-4.25E-09
URI (ΔCDF)	-8.06E-09	-7.72E-09	-7.72E-09	-8.90E-09	-9.51E-09	-9.56E-09	-9.17E-09	-9.31E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-08**	**-1.10E-08**	**-1.10E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.40E-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)	-3.94E-09	-3.95E-09	-3.92E-09	-6.54E-09	-6.46E-09	-8.19E-09	-8.19E-09	-8.19E-09
URI (ΔCDF)	-1.02E-08	-1.02E-08	-1.08E-08	-1.90E-08	-1.89E-08	-1.89E-08	-1.89E-08	-1.89E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.40E-08**	**-1.50E-08**	**-2.60E-08**	**-2.50E-08**	**-2.70E-08**	**-2.70E-08**	**-2.70E-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	-1.23E-10	-1.23E-10	-1.23E-10	-1.23E-10
URI (ΔCDF)	-2.71E-09	-2.71E-09	-2.71E-09	-6.09E-10	-3.26E-10	-3.26E-10	-3.26E-10	-3.26E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-09**	**-3.10E-09**	**-3.10E-09**	**-1.30E-09**	**-4.50E-10**	**-4.50E-10**	**-4.50E-10**	**-4.50E-10**

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	0.001830	0.001890	0.001970	0.002030	0.002090	0.002200	0.002200	0.002300	0.002030	0.000810	0.000833	0.000834
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**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**

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	0.000884	0.000913	0.000933	0.000952	0.000949	0.000995	0.000998	0.001020	0.001060	0.001130	0.001120	0.001120
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**

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	0.107	0.113	0.120	0.112	0.109	0.107	0.104	0.130	0.129	0.085	0.091	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	**1.1**	**1.1**	**1.2**	**1.1**	**1.1**	**1.1**	**1.0**	**1.3**	**1.3**	**0.9**	**0.9**	**1.0**

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	0.113	0.092	0.120	0.101	0.113	0.123	0.127	0.134	0.140	0.136	0.169	0.143
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**	**0.9**	**1.2**	**1.0**	**1.1**	**1.2**	**1.3**	**1.3**	**1.4**	**1.4**	**1.7**	**1.4**

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

Thresholds: White < 80.0% Yellow < 60.0%

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

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.

Current data as of: July 26, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017

United States Nuclear Regulatory Commission
Protecting People and the Environment

North Anna 2 – 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)
- 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)

Unplanned Scrams per 7000 Critical Hrs

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	1562.8	1975.9	2116.3	2209.0	2159.0	2184.0	1703.9
Indicator value	**0**	**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	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2209.0	1562.8	1975.9	2116.3	2209.0	2159.0	2184.0	1703.9
Indicator value	**0**	**0**	**0**	**0.9**	**0.9**	**0.8**	**0.8**	**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	1	0	0	0	0	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**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	-4.82E-09	-4.82E-09	-4.82E-09	-4.82E-09	-4.82E-09
URI (ΔCDF)	-1.18E-07	-1.25E-07	-2.14E-07	-4.03E-08	-4.03E-08	-4.03E-08	-3.93E-08	-3.93E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-07**	**-1.40E-07**	**-2.40E-07**	**-4.50E-08**	**-4.50E-08**	**-4.50E-08**	**-4.40E-08**	**-4.40E-08**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: 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/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	-1.24E-09	-1.41E-09	-1.48E-09	-7.98E-11	-7.98E-11	-7.98E-11	-7.98E-11	-7.98E-11
URI (ΔCDF)	-1.55E-08	-1.58E-08	-1.30E-08	-2.58E-09	-2.59E-09	-2.59E-09	-2.58E-09	-2.58E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-08**	**-1.70E-08**	**-1.40E-08**	**-2.70E-09**	**-2.70E-09**	**-2.70E-09**	**-2.70E-09**	**-2.70E-09**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: Changed PRA Parameter(s).

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)	-3.26E-09	-3.26E-09	-3.98E-09	-4.25E-09	-4.25E-09	-4.25E-09	-4.25E-09	-4.25E-09
URI (ΔCDF)	-7.72E-09	-7.72E-09	-8.90E-09	-9.51E-09	-9.56E-09	-9.17E-09	-9.31E-09	-9.43E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-08**	**-1.10E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-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)	-3.95E-09	-3.92E-09	-6.54E-09	-6.46E-09	-8.19E-09	-8.19E-09	-8.19E-09	-8.19E-09
URI (ΔCDF)	-1.02E-08	-1.08E-08	-1.90E-08	-1.89E-08	-1.89E-08	-1.89E-08	-1.89E-08	-1.89E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.50E-08**	**-2.60E-08**	**-2.50E-08**	**-2.70E-08**	**-2.70E-08**	**-2.70E-08**	**-2.70E-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	-1.23E-10	-1.23E-10	-1.23E-10	-1.23E-10	-1.23E-10
URI (ΔCDF)	-2.71E-09	-2.71E-09	-6.09E-10	-3.26E-10	-3.26E-10	-3.26E-10	-3.26E-10	-3.26E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-09**	**-3.10E-09**	**-1.30E-09**	**-4.50E-10**	**-4.50E-10**	**-4.50E-10**	**-4.50E-10**	**-4.50E-10**

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	0.002030	0.002090	0.002200	0.002200	0.002300	0.002030	0.000810	0.000833	0.000834	0.000884	0.000913	0.000933
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**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

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	0.000952	0.000949	0.000995	0.000998	0.001020	0.001060	0.001130	0.001120	0.001120	0.001170	0.001160	0.001760
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**	**0.2**

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	0.112	0.109	0.107	0.104	0.130	0.129	0.085	0.091	0.098	0.113	0.092	0.120
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**	**1.1**	**1.0**	**1.3**	**1.3**	**0.9**	**0.9**	**1.0**	**1.1**	**0.9**	**1.2**

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	0.101	0.113	0.123	0.127	0.134	0.140	0.136	0.169	0.143	0.146	0.151	0.163
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**	**1.2**	**1.3**	**1.3**	**1.4**	**1.4**	**1.7**	**1.4**	**1.5**	**1.5**	**1.6**

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 2 – Quarterly Performance Indicators

4Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

- Unplanned Scrams (IE01)
- Unplanned Power Changes per 7000 Critical Hours (IE03)
- Unplanned Scrams with Complications (IE04)
- Safety System Functional Failures (MS05)
- Emergency AC Power Systems (MS06)
- 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)

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	1562.8	1975.9	2116.3	2209.0	2159.0	2184.0	1703.9	1950.8
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

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	1.0	0	0	0	0	1.0
Critical hours	1562.8	1975.9	2116.3	2209.0	2159.0	2184.0	1703.9	1950.8
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.8**	**0.8**	**0**	**0.9**

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	**1**	**1**	**1**	**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	-4.82E-09	-4.82E-09	-4.82E-09	-4.82E-09	-4.82E-09	-4.82E-09
URI (ΔCDF)	-1.25E-07	-2.14E-07	-4.03E-08	-4.03E-08	-4.03E-08	-3.93E-08	-3.93E-08	-3.93E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-07**	**-2.40E-07**	**-4.50E-08**	**-4.50E-08**	**-4.50E-08**	**-4.40E-08**	**-4.40E-08**	**-4.40E-08**

TOP

Licensee Comments:
3Q/16: Changed PRA Parameter(s).
2Q/16: 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	-7.98E-11	-7.98E-11	-7.98E-11	-7.98E-11	-7.98E-11	-7.98E-11
URI (ΔCDF)	-1.58E-08	-1.30E-08	-2.58E-09	-2.59E-09	-2.59E-09	-2.58E-09	-2.58E-09	-2.58E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-08**	**-1.40E-08**	**-2.70E-09**	**-2.70E-09**	**-2.70E-09**	**-2.70E-09**	**-2.70E-09**	**-2.70E-09**

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)	-3.26E-09	-3.98E-09	-4.25E-09	-4.25E-09	-4.25E-09	-4.25E-09	-4.25E-09	-4.25E-09
URI (ΔCDF)	-7.72E-09	-8.90E-09	-9.51E-09	-9.56E-09	-9.17E-09	-9.31E-09	-9.43E-09	-9.56E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.30E-08**	**-1.40E-08**	**-1.40E-08**	**-1.40E-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)	-3.92E-09	-6.54E-09	-6.46E-09	-8.19E-09	-8.19E-09	-8.19E-09	-8.19E-09	-8.19E-09
URI (ΔCDF)	-1.08E-08	-1.90E-08	-1.89E-08	-1.89E-08	-1.89E-08	-1.89E-08	-1.89E-08	-1.89E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-08**	**-2.60E-08**	**-2.50E-08**	**-2.70E-08**	**-2.70E-08**	**-2.70E-08**	**-2.70E-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	-1.23E-10	-1.23E-10	-1.23E-10	-1.23E-10	-1.23E-10	-1.23E-10
URI (ΔCDF)	-2.71E-09	-6.09E-10	-3.26E-10	-3.26E-10	-3.26E-10	-3.26E-10	-3.26E-10	-3.26E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-09**	**-1.30E-09**	**-4.50E-10**	**-4.50E-10**	**-4.50E-10**	**-4.50E-10**	**-4.50E-10**	**-4.50E-10**

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	0.002200	0.002300	0.002030	0.000810	0.000833	0.000834	0.000884	0.000913	0.000933	0.000952	0.000949	0.000995
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**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

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	0.000998	0.001020	0.001060	0.001130	0.001120	0.001120	0.001170	0.001160	0.001760	0.000320	0.000337	0.000379
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**	**0.2**	**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	0.104	0.130	0.129	0.085	0.091	0.098	0.113	0.092	0.120	0.101	0.113	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	**1.0**	**1.3**	**1.3**	**0.9**	**0.9**	**1.0**	**1.1**	**0.9**	**1.2**	**1.0**	**1.1**	**1.2**

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	0.127	0.134	0.140	0.136	0.169	0.143	0.146	0.151	0.163	0.232	0.236	0.254
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**	**1.4**	**1.4**	**1.7**	**1.4**	**1.5**	**1.5**	**1.6**	**2.3**	**2.4**	**2.5**

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

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Current data as of: February 1, 2018

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