Waterford 3

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	1.0	2.0	0	0
Critical hours	1199.8	2123.8	1565.0	2080.9	2149.4
Indicator value	**1.0**	**2.0**	**3.1**	**3.0**	**2.7**

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	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Scrams	0	1.0	0	0	0
Indicator value				**1.0**	**1.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Unplanned power changes	0	0	0	1.0	1.0
Critical hours	1199.8	2123.8	1565.0	2080.9	2149.4
Indicator value	**4.9**	**4.0**	**1.0**	**1.0**	**1.8**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	1Q/99	2Q/99	3Q/99	4Q/99	1Q/00
Train 1					
Planned unavailable hours	0	0	17.90	18.92	16.30
Unplanned unavailable hours	0	0	0	0	59.64
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	19.30	21.00	37.12	19.42
Unplanned unavailable hours	3.12	0	16.58	7.65	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%**	**0.6%**

Licensee Comments:

1Q/00: The Majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The Majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability.

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	2.00	0	0	81.92	21.42
Unplanned unavailable hours	0	0	0	0	59.64
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1261.76	2183.00	1644.75	2209.00	2149.40
Train 2					
Planned unavailable hours	0	13.92	21.00	46.38	19.69
Unplanned unavailable hours	0	0	17.91	7.65	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1261.76	2183.00	1644.75	2209.00	2149.40
Indicator value				**0.7%**	**0.9%**

Licensee Comments:

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability.

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	0	13.23	0	18.92	36.00
Unplanned unavailable hours	0	0	0	0	59.64
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1261.76	2183.00	1644.75	2209.00	2166.30
Train 2					
Planned unavailable hours	15.62	0	21.00	28.90	19.42
Unplanned unavailable hours	0	12.73	16.58	7.65	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1261.76	2183.00	1644.75	2209.00	2166.30
Train 3					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	0	29.83	5.75	6.15	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1261.76	2183.00	1644.75	2209.00	2166.30
Indicator value				**0.5%**	**0.6%**

Licensee Comments:

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability.

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	0	0	26.63	54.82	16.30
Unplanned unavailable hours	0	9.90	0	0	59.64
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	16.88	21.00	43.15	33.98
Unplanned unavailable hours	0	0	16.58	7.65	0
Fault exposure hours	0	0	0	9.25	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	26.63	54.82	16.30
Unplanned unavailable hours	0	9.90	0	0	59.64
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	16.88	21.00	43.15	33.98
Unplanned unavailable hours	0	0	16.58	7.65	0
Fault exposure hours	0	0	0	9.25	0
Effective Reset hours	0	0	0	0	0

Required hours	2160.00	2183.00	2208.00	2209.00	2184.00
Indicator value				**0.7%**	**0.8%**

Licensee Comments:

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support system unavailability.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability.

4Q/99: The reported unavailability hours from the first quarter of 1997 to the third quarter of 1999 uses the safety system performance indicator data submitted to WANO. Equipment unavailability for that period was not re-examined to the criteria of NEI 99-02, Draft, Rev D. However, the historical data will be reviewed to determine if support system unavailability was accurately cascaded into the reported system in past WANO submittals. This review should be complete for the next subsequent submittal. Note that fault exposure hours occurring prior to the third quarter of 1999 would have been included in the unplanned unavailability hours. The data for the fourth quarter of 1999 was determined using the guidance of NEI 99-02, Draft, Rev D. Note: The Containment Spray system, as well as the Shutdown Cooling mode of LPSI, comprises the RHR function. Because the RHR system is needed at all times, the number of hours required for RHR system availability is the total hours in the quarter. Unavailability occurs when a train is unable to perform its intended safety function when it is required to be available to perform that function. If a component is not required in certain modes, it is because it is not needed to meet a safety function under those conditions. For example, unavailability is not counted for the Containment Spray system when it is manually isolated and aligned for shutdown cooling in modes 4, 5 and 6. Change to previously submitted data: Hours in the 4th quarter 1999 were reduced because a re-examination of the data determined that unavailable hours had been erroneously counted when the Shutdown Cooling function was not required in Modes 1-3. This did not result in a color change.

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	1	0	0	0	0
Indicator value	**4**	**3**	**2**	**1**	**0**

Licensee Comments: none

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	0.002780	0.002990	0.002670	0.003480	0.003530	0.003570	0.004230	0.004420	0.004610	0.005010	0.005360	0.005890
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.6**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/99	5/99	6/99	7/99	8/99	9/99	10/99	11/99	12/99	1/00	2/00	3/00
Maximum leakage	0.359	0.324	0.326	0.401	1.671	4.690	0.122	0.557	0.233	0.308	0.381	0.420
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**3.6**	**3.2**	**3.3**	**4.0**	**16.7**	**46.9**	**1.2**	**5.6**	**2.3**	**3.1**	**3.8**	**4.2**

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	26.0	60.0	43.0	51.0
Total opportunities	0	26.0	68.0	44.0	54.0
Indicator value				**94.4%**	**93.9%**

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				78.0	120.0
Total Key personnel				80.0	123.0
Indicator value				**97.5%**	**97.6%**

Licensee Comments:

1Q/00: In the 1st quarter of 2000, added Control Room Communicator as a key position. Also added one EOF position and one TSC position as key positions.

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	402	402	401	402	405
Total sirens-tests	402	402	402	402	406
Indicator value	**99.7%**	**99.7%**	**99.8%**	**99.9%**	**99.9%**

Licensee Comments:

1Q/00: Four additional tests were conducted on January 1, 2000 as part of the Waterford 3 Y2K response effort.

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	132.49	598.30	129.05	16.45	69.46
CCTV compensatory hours	28.0	14.0	43.1	62.0	18.4
IDS normalization factor	1.35	1.35	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1
Index Value	**0.051**	**0.064**	**0.064**	**0.053**	**0.049**

Licensee Comments:

1Q/00: Note that the IDS normalization factor reported in the 3rd and 4th Quarter 1999 data has been corrected. The factor reported was 1.35; it should have been reported as 1.1. The correction did not result in a color change for this indicator. Background: In September 1999, the IDS normalization factor was adjusted from 1.35 to 1.1 based on the determination that four turnstiles should not be included in calculating the factor. The turnstiles are barriers that have no detection function or capability. It was determined that a correction would be submitted with the 1st Quarter 2000 data.

4Q/99: Note that this data reflects a correction to the IDS normalization factor reported in the 3rd and 4th Quarter 1999 data. The factor reported was 1.35; it should have been reported as 1.1. This correction does not result in a color change for this indicator. Background: In September 1999, the IDS normalization factor was adjusted from 1.35 to 1.1 based on the determination that four turnstiles should not be included in calculating the factor. The turnstiles are barriers that have no detection function or capability. It was determined that a correction would be submitted with the 1st Quarter 2000 data.

3Q/99: Note that this data reflects a correction to the IDS normalization factor reported in the 3rd and 4th Quarter 1999 data. The factor reported was 1.35; it should have been reported as 1.1. This correction does not result in a color change for this indicator. Background: In September 1999, the IDS normalization factor was adjusted from 1.35 to 1.1 based on the determination that four turnstiles should not be included in calculating the factor. The turnstiles are barriers that have no detection function or capability. It was determined that a correction would be submitted with the 1st Quarter 2000 data.

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

Waterford 3

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	1.0	2.0	0	0	0
Critical hours	2123.8	1565.0	2080.9	2149.4	2029.6
Indicator value	**2.0**	**3.1**	**3.0**	**2.7**	**1.8**

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/99	3Q/99	4Q/99	1Q/00	2Q/00
Scrams	1.0	0	0	0	0
Indicator value			**1.0**	**1.0**	**1.0**

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	1.0	0
Critical hours	2123.8	1565.0	2080.9	2149.4	2029.6
Indicator value	**4.0**	**1.0**	**1.0**	**1.8**	**1.8**

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	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Train 1					
Planned unavailable hours	0	17.90	18.92	16.30	13.45
Unplanned unavailable hours	0	0	0	59.64	0.63
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	19.30	21.00	37.12	19.42	4.11
Unplanned unavailable hours	0	16.58	7.65	0	4.52
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%**	**0.6%**	**0.7%**

Licensee Comments:

2Q/00: In the 4th quarter 2000 submittal, changes were made in the hours reported for the 2nd quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The Majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

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	81.92	21.42	13.45
Unplanned unavailable hours	0	0	0	59.64	0.63
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	1644.75	2209.00	2149.40	2029.60
Train 2					
Planned unavailable hours	13.92	21.00	46.38	19.69	48.63
Unplanned unavailable hours	0	17.91	7.65	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	1644.75	2209.00	2149.40	2029.60
Indicator value			**0.7%**	**0.9%**	**0.9%**

Licensee Comments:

2Q/00: In the 4th quarter 2000 submittal, changes were made in the hours reported for the 2nd quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

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	13.23	0	18.92	36.00	13.45
Unplanned unavailable hours	0	0	0	59.64	0.63
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	1644.75	2209.00	2166.30	2053.80
Train 2					
Planned unavailable hours	0	21.00	28.90	19.42	12.58
Unplanned unavailable hours	12.73	16.58	7.65	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	1644.75	2209.00	2166.30	2053.80
Train 3					
Planned unavailable hours	0	0	0	0	0
Unplanned unavailable hours	29.83	5.75	6.15	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	1644.75	2209.00	2166.30	2053.80
Indicator value			**0.5%**	**0.6%**	**0.6%**

Licensee Comments:

2Q/00: In the 4th quarter 2000 submittal, changes were made in the hours reported for the 2nd quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

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	26.63	54.82	16.30	14.68
Unplanned unavailable hours	9.90	0	0	59.64	0.63
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	2053.80
Train 2					
Planned unavailable hours	16.88	21.00	43.15	33.98	5.18
Unplanned unavailable hours	0	16.58	7.65	0	0
Fault exposure hours	0	0	9.25	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2184.00	2053.80
Train 3					
Planned unavailable hours	0	26.63	54.82	16.30	0
Unplanned unavailable hours	9.90	0	0	59.64	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	129.20
Train 4					
Planned unavailable hours	16.88	21.00	43.15	33.98	0
Unplanned unavailable hours	0	16.58	7.65	0	0
Fault exposure hours	0	0	9.25	0	0
Effective Reset hours	0	0	0	0	0

Required hours	2183.00	2208.00	2209.00	2184.00	129.20
Indicator value			**0.7%**	**0.8%**	**0.8%**

Licensee Comments:

2Q/00: Per FAQ 172, Waterford 3 has revised the number of RHR trains being reported from 2 trains to 4 trains. A change report has been submitted that maintains train 1 and 2 historical data as is and repeated train 1 and 2 data in trains 3 and 4. Data for the 2nd quarter of 2000 was calculated for each of the four trains. Note also that unavailability hours in the 4th quarter 1999 were reduced because a re-examination of the data determined that unavailable hours had been erroneously counted when the Shutdown Cooling function was not required in Modes 1-3. This did not result in a color change.

2Q/00: Per FAQ 172, Waterford 3 has revised the number of RHR trains being reported from 2 trains to 4 trains. A change report has been submitted that maintains train 1 and 2 historical data as is and repeated train 1 and 2 data in trains 3 and 4. Data for the 2nd quarter of 2000 was calculated for each of the four trains. Note also that unavailability hours in the 4th quarter 1999 were reduced because a re-examination of the data determined that unavailable hours had been erroneously counted when the Shutdown Cooling function was not required in Modes 1-3. This did not result in a color change. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 2nd quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support system unavailability.

4Q/99: The reported unavailability hours from the first quarter of 1997 to the third quarter of 1999 uses the safety system performance indicator data submitted to WANO. Equipment unavailability for that period was not re-examined to the criteria of NEI 99-02, Draft, Rev D. However, the historical data will be reviewed to determine if support system unavailability was accurately cascaded into the reported system in past WANO submittals. This review should be complete for the next subsequent submittal. Note that fault exposure hours occurring prior to the third quarter of 1999 would have been included in the unplanned unavailability hours. The data for the fourth quarter of 1999 was determined using the guidance of NEI 99-02, Draft, Rev D. Note: The Containment Spray system, as well as the Shutdown Cooling mode of LPSI, comprises the RHR function. Because the RHR system is needed at all times, the number of hours required for RHR system availability is the total hours in the quarter. Unavailability occurs when a train is unable to perform its intended safety function when it is required to be available to perform that function. If a component is not required in certain modes, it is because it is not needed to meet a safety function under those conditions. For example, unavailability is not counted for the Containment Spray system when it is manually isolated and aligned for shutdown cooling in modes 4, 5 and 6. Change to previously submitted data: Hours in the 4th quarter 1999 were reduced because a re-examination of the data determined that unavailable hours had been erroneously counted when the Shutdown Cooling function was not required in Modes 1-3. This did not result in a color change.

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

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	0.003480	0.003530	0.003570	0.004230	0.004420	0.004610	0.005010	0.005360	0.005890	0.005910	0.007120	0.006470
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.6**	**0.6**	**0.7**	**0.6**

Licensee Comments:

6/00: Data between 6/8/00 and 6/16/00 not used due to plant shutdown and startup.

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	0.401	1.671	4.690	0.122	0.557	0.233	0.308	0.381	0.420	0.014	0.020	0.028
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**4.0**	**16.7**	**46.9**	**1.2**	**5.6**	**2.3**	**3.1**	**3.8**	**4.2**	**0.1**	**0.2**	**0.3**

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	26.0	60.0	43.0	51.0	62.0
Total opportunities	26.0	68.0	44.0	54.0	64.0
Indicator value			**94.4%**	**93.9%**	**94.7%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/99	3Q/99	4Q/99	1Q/00	2Q/00
Participating Key personnel			78.0	120.0	118.0
Total Key personnel			80.0	123.0	124.0
Indicator value			**97.5%**	**97.6%**	**95.2%**

Licensee Comments:

2Q/00: This quarter's data is revised to 118 of 124 key ERO members that have participated in a qualifying activity from the 120 of 124 originally reported. This adjustment is made as a result of applying revised screening criteria for determining when to give credit for drill participation. This adjustment does not affect PI color.

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	402	401	402	405	402
Total sirens-tests	402	402	402	406	402
Indicator value	**99.7%**	**99.8%**	**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/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	598.30	129.05	16.45	69.46	181.70
CCTV compensatory hours	14.0	43.1	62.0	18.4	15.0
IDS normalization factor	1.35	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1
Index Value	**0.064**	**0.064**	**0.053**	**0.049**	**0.028**

Licensee Comments:

2Q/00: In September 2000, an internal assessment discovered a 9 minute discrepancy for the month of April 2000 in IDS Compensatory Hours. This discrepancy changed the reported time from 32.5 hours to 32.4 hours. This change did not affect the Performance Indicator color.

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**	**1**	**0**	**0**

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

Last Modified: April 1, 2002

Waterford 3

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	2.0	0	0	0	0
Critical hours	1565.0	2080.9	2149.4	2029.6	2208.0
Indicator value	**3.1**	**3.0**	**2.7**	**1.8**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Scrams	0	0	0	0	0
Indicator value		**1.0**	**1.0**	**1.0**	**1.0**

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	1.0	0	0
Critical hours	1565.0	2080.9	2149.4	2029.6	2208.0
Indicator value	**1.0**	**1.0**	**1.8**	**1.8**	**1.7**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Train 1					
Planned unavailable hours	17.90	18.92	16.30	13.45	3.88
Unplanned unavailable hours	0	0	59.64	0.63	21.55
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	21.00	37.12	19.42	4.11	2.52
Unplanned unavailable hours	16.58	7.65	0	4.52	9.22
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%**	**0.6%**	**0.7%**	**0.8%**

Licensee Comments:

3Q/00: An internal assessment identified changes needed in the 1st and 2nd quarter 2000 data. The changes are minor in magnitude and there will be no change in color of this PI for the 1st, 2nd, or 3rd quarter of 2000 as a result of the data differences. Because the assessment occured late in the 3rd quarter, there was not sufficient time to properly verify the necessary changes. Therefore, changes to the 1st and 2nd quarter data will be submitted with the next quarterly submittal.

2Q/00: In the 4th quarter 2000 submittal, changes were made in the hours reported for the 2nd quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The Majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

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	81.92	21.42	13.45	18.43
Unplanned unavailable hours	0	0	59.64	0.63	21.55
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1644.75	2209.00	2149.40	2029.60	2208.00
Train 2					
Planned unavailable hours	21.00	46.38	19.69	48.63	2.33
Unplanned unavailable hours	17.91	7.65	0	0	9.22
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1644.75	2209.00	2149.40	2029.60	2208.00
Indicator value		**0.7%**	**0.9%**	**0.9%**	**1.0%**

Licensee Comments:

3Q/00: An internal assessment identified changes needed in the 1st and 2nd quarter 2000 data. The changes are minor in magnitude and there will be no change in color of this PI for the 1st, 2nd, or 3rd quarter of 2000 as a result of the data differences. Because the assessment occured late in the 3rd quarter, there was not sufficient time to properly verify the necessary changes. Therefore, changes to the 1st and 2nd quarter data will be submitted with the next quarterly submittal.

2Q/00: In the 4th quarter 2000 submittal, changes were made in the hours reported for the 2nd quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

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	18.92	36.00	13.45	3.88
Unplanned unavailable hours	0	0	59.64	0.63	21.55
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1644.75	2209.00	2166.30	2053.80	2208.00
Train 2					
Planned unavailable hours	21.00	28.90	19.42	12.58	0
Unplanned unavailable hours	16.58	7.65	0	0	9.22
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1644.75	2209.00	2166.30	2053.80	2208.00
Train 3					
Planned unavailable hours	0	0	0	0	0.22
Unplanned unavailable hours	5.75	6.15	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	1644.75	2209.00	2166.30	2053.80	2208.00

Indicator value		**0.5%**	**0.6%**	**0.6%**	**0.6%**

Licensee Comments:

3Q/00: An internal assessment identified changes needed in the 1st and 2nd quarter 2000 data. The changes are minor in magnitude and there will be no change in color of this PI for the 1st, 2nd, or 3rd quarter of 2000 as a result of the data differences. Because the assessment occured late in the 3rd quarter, there was not sufficient time to properly verify the necessary changes. Therefore, changes to the 1st and 2nd quarter data will be submitted with the next quarterly submittal.

2Q/00: In the 4th quarter 2000 submittal, changes were made in the hours reported for the 2nd quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

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	26.63	54.82	16.30	14.68	18.91
Unplanned unavailable hours	0	0	59.64	0.63	21.85
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2053.80	2208.00
Train 2					
Planned unavailable hours	21.00	43.15	33.98	5.18	0.92

Unplanned unavailable hours	16.58	7.65	0	0	9.22
Fault exposure hours	0	9.25	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	2053.80	2208.00
Train 3					
Planned unavailable hours	26.63	54.82	16.30	0	0
Unplanned unavailable hours	0	0	59.64	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	129.20	0
Train 4					
Planned unavailable hours	21.00	43.15	33.98	0	0
Unplanned unavailable hours	16.58	7.65	0	0	0
Fault exposure hours	0	9.25	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2208.00	2209.00	2184.00	129.20	0
Indicator value		**0.7%**	**0.8%**	**0.8%**	**0.9%**

Licensee Comments:

3Q/00: An internal assessment identified changes needed in the 1st and 2nd quarter 2000 data. The changes are minor in magnitude and there will be no change in color of this PI for the 1st, 2nd, or 3rd quarter of 2000 as a result of the data differences. Because the assessment occured late in the 3rd quarter, there was not sufficient time to properly verify the necessary changes. Therefore, changes to the 1st and 2nd quarter data will be submitted with the next quarterly submittal.

2Q/00: Per FAQ 172, Waterford 3 has revised the number of RHR trains being reported from 2 trains to 4 trains. A change report has been submitted that maintains train 1 and 2 historical data as is and repeated train 1 and 2 data in trains 3 and 4. Data for the 2nd quarter of 2000 was calculated for each of the four trains. Note also that unavailability hours in the 4th quarter 1999 were reduced because a re-examination of the data determined that unavailable hours had been erroneously counted when the Shutdown Cooling function was not required in Modes 1-3. This did not result in a color change. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 2nd quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Safety System Functional Failures	0	0	0	0	0
Indicator value	**2**	**1**	**0**	**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	0.004230	0.004420	0.004610	0.005010	0.005360	0.005890	0.005910	0.007120	0.006470	0.007090	0.006960	0.006990
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.6**	**0.6**	**0.7**	**0.6**	**0.7**	**0.7**	**0.7**

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	0.122	0.557	0.233	0.308	0.381	0.420	0.014	0.020	0.028	0.027	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	**1.2**	**5.6**	**2.3**	**3.1**	**3.8**	**4.2**	**0.1**	**0.2**	**0.3**	**0.3**	**0.1**	**0.1**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Successful opportunities	60.0	43.0	51.0	62.0	46.0
Total opportunities	68.0	44.0	54.0	64.0	50.0
Indicator value		**94.4%**	**93.9%**	**94.7%**	**94.1%**

Licensee Comments:

3Q/00: This quarter's data is revised to 46 of 50 event opportunities performed timely and accurately from the 47 of 50 originally reported. This adjustment is made as a result of applying current procedural guidance for determining timely and accurate performance. This adjustment does not affect PI color.

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/99	4Q/99	1Q/00	2Q/00	3Q/00
Participating Key personnel		78.0	120.0	118.0	121.0
Total Key personnel		80.0	123.0	124.0	124.0
Indicator value		**97.5%**	**97.6%**	**95.2%**	**97.6%**

Licensee Comments:

3Q/00: This quarter's data is revised to 121 of 124 key ERO members that have participated in a qualifying activity from the 122 of 124 originally reported. This adjustment is made as a result of applying revised screening criteria for determining when to give credit for drill participation. This adjustment does not affect PI color.

2Q/00: This quarter's data is revised to 118 of 124 key ERO members that have participated in a qualifying activity from the 120 of 124 originally reported. This adjustment is made as a result of applying revised screening criteria for determining when to give credit for drill participation. This adjustment does not affect PI color.

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	401	402	405	402	401
Total sirens-tests	402	402	406	402	402
Indicator value	**99.8%**	**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/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	129.05	16.45	69.46	181.70	43.60
CCTV compensatory hours	43.1	62.0	18.4	15.0	19.7
IDS normalization factor	1.10	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1
Index Value	**0.064**	**0.053**	**0.049**	**0.028**	**0.022**

Licensee Comments:

2Q/00: In September 2000, an internal assessment discovered a 9 minute discrepancy for the month of April 2000 in IDS Compensatory Hours. This discrepancy changed the reported time from 32.5 hours to 32.4 hours. This change did not affect the Performance Indicator color.

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**	**1**	**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

Waterford 3

4Q/2000 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Unplanned scrams	0	0	0	0	0
Critical hours	2080.9	2149.4	2029.6	2208.0	1410.7
Indicator value	**3.0**	**2.7**	**1.8**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Scrams	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**

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	1.0	0	0	0
Critical hours	2080.9	2149.4	2029.6	2208.0	1410.7
Indicator value	**1.0**	**1.8**	**1.8**	**1.7**	**0.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Train 1					
Planned unavailable hours	18.92	16.30	13.45	3.88	0
Unplanned unavailable hours	0	59.64	0.63	21.55	3.50
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	37.12	19.42	4.11	2.52	3.98
Unplanned unavailable hours	7.65	0	4.52	9.22	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%**	**0.6%**	**0.7%**	**0.8%**	**0.7%**

Licensee Comments:

4Q/00: Note that changes were made in the hours reported for the 1st and 2nd quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

2Q/00: In the 4th quarter 2000 submittal, changes were made in the hours reported for the 2nd quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The Majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

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	81.92	21.42	13.45	18.43	1.65
Unplanned unavailable hours	0	59.64	0.63	21.55	3.50
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2149.40	2029.60	2208.00	1410.60
Train 2					
Planned unavailable hours	46.38	19.69	48.63	2.33	3.98
Unplanned unavailable hours	7.65	0	0	9.22	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2149.40	2029.60	2208.00	1410.60
Indicator value	**0.7%**	**0.9%**	**0.9%**	**1.0%**	**1.0%**

Licensee Comments:

4Q/00: Note that changes were made in the hours reported for the 1st and 2nd quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

2Q/00: In the 4th quarter 2000 submittal, changes were made in the hours reported for the 2nd quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

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	18.92	36.00	13.45	3.88	0
Unplanned unavailable hours	0	59.64	0.63	21.55	3.50
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2166.30	2053.80	2208.00	1457.60
Train 2					
Planned unavailable hours	28.90	19.42	12.58	0	3.98
Unplanned unavailable hours	7.65	0	0	9.22	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2166.30	2053.80	2208.00	1457.60
Train 3					
Planned unavailable hours	0	0	0	0.22	0
Unplanned unavailable hours	6.15	0	0	0	0
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2166.30	2053.80	2208.00	1457.60
Indicator value	**0.5%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**

Licensee Comments:

4Q/00: Note that changes were made in the hours reported for the 1st and 2nd quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

2Q/00: In the 4th quarter 2000 submittal, changes were made in the hours reported for the 2nd quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

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	54.82	16.30	14.68	18.91	2.45
Unplanned unavailable hours	0	59.64	0.63	21.85	3.50
Fault exposure hours	0	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2053.80	2208.00	1457.60
Train 2					
Planned unavailable hours	43.15	33.98	5.18	0.92	5.03
Unplanned unavailable hours	7.65	0	0	9.22	0
Fault exposure hours	9.25	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	2053.80	2208.00	1457.60
Train 3					
Planned unavailable hours	54.82	16.30	0	0	0

Unplanned unavailable hours	0	59.64	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	129.20	0	549.20
Train 4					
Planned unavailable hours	43.15	33.98	0	0	0
Unplanned unavailable hours	7.65	0	0	0	0
Fault exposure hours	9.25	0	0	0	0
Effective Reset hours	0	0	0	0	0
Required hours	2209.00	2184.00	129.20	0	549.20
Indicator value	**0.7%**	**0.8%**	**0.8%**	**0.9%**	**0.9%**

Licensee Comments:

4Q/00: Note that changes were made in the hours reported for the 1st and 2nd quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

2Q/00: Per FAQ 172, Waterford 3 has revised the number of RHR trains being reported from 2 trains to 4 trains. A change report has been submitted that maintains train 1 and 2 historical data as is and repeated train 1 and 2 data in trains 3 and 4. Data for the 2nd quarter of 2000 was calculated for each of the four trains. Note also that unavailability hours in the 4th quarter 1999 were reduced because a re-examination of the data determined that unavailable hours had been erroneously counted when the Shutdown Cooling function was not required in Modes 1-3. This did not result in a color change. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 2nd quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

Safety System Functional Failures (PWR)

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	0	0	0
Indicator value	**1**	**0**	**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	0.005010	0.005360	0.005890	0.005910	0.007120	0.006470	0.007090	0.006960	0.006990	0.007100	0.002710	0.003120
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.5**	**0.6**	**0.6**	**0.7**	**0.6**	**0.7**	**0.7**	**0.7**	**0.7**	**0.3**	**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	0.308	0.381	0.420	0.014	0.020	0.028	0.027	0.014	0.014	0.014	1.452	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	**3.1**	**3.8**	**4.2**	**0.1**	**0.2**	**0.3**	**0.3**	**0.1**	**0.1**	**0.1**	**14.5**	**0.1**

Licensee Comments:

12/00: The higher than normal leakage in November was due to data being collected during Refueling Outage 10 with the plant in mode 5, preparing for mode 4.

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	43.0	51.0	62.0	46.0	10.0
Total opportunities	44.0	54.0	64.0	50.0	10.0
Indicator value	**94.4%**	**93.9%**	**94.7%**	**94.1%**	**94.3%**

Licensee Comments:

4Q/00: The data for the 2000 3rd quarter is revised in this submittal to 46 of 50 event opportunities performed timely and accurately from the 47 of 50 originally reported. This correction does not affect the PI color.

3Q/00: This quarter's data is revised to 46 of 50 event opportunities performed timely and accurately from the 47 of 50 originally reported. This adjustment is made as a result of applying current procedural guidance for determining timely and accurate performance. This adjustment does not affect PI color.

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00
Participating Key personnel	78.0	120.0	118.0	121.0	122.0
Total Key personnel	80.0	123.0	124.0	124.0	122.0
Indicator value	**97.5%**	**97.6%**	**95.2%**	**97.6%**	**100.0%**

Licensee Comments:

4Q/00: The data for 2nd quarter 2000 is revised for this submittal to 118 of 124 key ERO members that have participated in a qualifying activity from the 120 of 124 originally reported. Likewise, the data for 3rd quarter 2000 is revised to 121 of 124 from the 122 of 124 originally reported. These changes did not affect the PI color.

3Q/00: This quarter's data is revised to 121 of 124 key ERO members that have participated in a qualifying activity from the 122 of 124 originally reported. This adjustment is made as a result of applying revised screening criteria for determining when to give credit for drill participation. This adjustment does not affect PI color.

2Q/00: This quarter's data is revised to 118 of 124 key ERO members that have participated in a qualifying activity from the 120 of 124 originally reported. This adjustment is made as a result of applying revised screening criteria for determining when to give credit for drill participation. This adjustment does not affect PI color.

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	402	405	402	401	402
Total sirens-tests	402	406	402	402	402
Indicator value	**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/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	16.45	69.46	181.70	43.60	25.70
CCTV compensatory hours	62.0	18.4	15.0	19.7	53.1
IDS normalization factor	1.10	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1
Index Value	**0.053**	**0.049**	**0.028**	**0.022**	**0.022**

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
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	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

Waterford 3

1Q/2001 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Unplanned scrams	0	0	0	0	0	1.0
Critical hours	2080.9	2149.4	2029.6	2208.0	1410.7	2127.0
Indicator value	**3.0**	**2.7**	**1.8**	**0**	**0**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Scrams	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**

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	1.0	0	0	0	1.0
Critical hours	2080.9	2149.4	2029.6	2208.0	1410.7	2127.0
Indicator value	**1.0**	**1.8**	**1.8**	**1.7**	**0.9**	**0.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	18.92	16.30	13.45	3.88	0	0
Unplanned unavailable hours	0	59.64	0.63	21.55	3.50	2.60
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	2160.00
Train 2						
Planned unavailable hours	37.12	19.42	4.11	2.52	3.98	2.65
Unplanned unavailable hours	7.65	0	4.52	9.22	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	2160.00
Indicator value	**0.6%**	**0.6%**	**0.7%**	**0.8%**	**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)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	81.92	21.42	13.45	18.43	1.65	2.53
Unplanned unavailable hours	0	59.64	0.63	21.55	3.50	5.40
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2149.40	2029.60	2208.00	1410.60	2127.00
Train 2						
Planned unavailable hours	46.38	19.69	48.63	2.33	3.98	2.65
Unplanned unavailable hours	7.65	0	0	9.22	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2149.40	2029.60	2208.00	1410.60	2127.00
Indicator value	**0.7%**	**0.9%**	**0.9%**	**1.0%**	**1.0%**	**1.0%**

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)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Train 1						
Planned unavailable hours	18.92	36.00	13.45	3.88	0	0
Unplanned unavailable hours	0	59.64	0.63	21.55	3.50	2.60
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2166.30	2053.80	2208.00	1457.60	2160.00
Train 2						
Planned unavailable hours	28.90	19.42	12.58	0	3.98	2.65
Unplanned unavailable hours	7.65	0	0	9.22	0	0
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2166.30	2053.80	2208.00	1457.60	2160.00
Train 3						
Planned unavailable hours	0	0	0	0.22	0	0
Unplanned unavailable hours	6.15	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	2166.30	2053.80	2208.00	1457.60	2160.00
Indicator value	**0.5%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**

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	54.82	16.30	14.68	18.91	2.45	0
Unplanned unavailable hours	0	59.64	0.63	21.85	3.50	2.60
Fault exposure hours	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2053.80	2208.00	1457.60	2160.00
Train 2						
Planned unavailable hours	43.15	33.98	5.18	0.92	5.03	2.65
Unplanned unavailable hours	7.65	0	0	9.22	0	0
Fault exposure hours	9.25	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	2053.80	2208.00	1457.60	2160.00
Train 3						
Planned unavailable hours	54.82	16.30	0	0	0	0
Unplanned unavailable hours	0	59.64	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	129.20	0	549.20	0
Train 4						
Planned unavailable hours	43.15	33.98	0	0	0	0
Unplanned unavailable hours	7.65	0	0	0	0	0
Fault exposure hours	9.25	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0
Required hours	2209.00	2184.00	129.20	0	549.20	0
Indicator value	**0.7%**	**0.8%**	**0.8%**	**0.9%**	**0.9%**	**1.0%**

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	0	0	0	1
Indicator value	**1**	**0**	**0**	**0**	**0**	**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	0.004230	0.004420	0.004610	0.005010	0.005360	0.005890	0.005910	0.007120	0.006470	0.007090	0.006960	0.006990
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.6**	**0.6**	**0.7**	**0.6**	**0.7**	**0.7**	**0.7**

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01
Maximum activity	0.007100	0.002710	0.003120	0.003460	0.004220	0.004250
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.7**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**

Licensee Comments: none

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	0.122	0.557	0.233	0.308	0.381	0.420	0.014	0.020	0.028	0.027	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	**1.2**	**5.6**	**2.3**	**3.1**	**3.8**	**4.2**	**0.1**	**0.2**	**0.3**	**0.3**	**0.1**	**0.1**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01
Maximum leakage	0.014	1.452	0.014	0.028	0.028	0.028
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**14.5**	**0.1**	**0.3**	**0.3**	**0.3**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Successful opportunities	43.0	51.0	62.0	46.0	10.0	12.0
Total opportunities	44.0	54.0	64.0	50.0	10.0	12.0
Indicator value	**94.4%**	**93.9%**	**94.7%**	**94.1%**	**94.3%**	**94.5%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01
Participating Key personnel	78.0	120.0	118.0	121.0	122.0	128.0
Total Key personnel	80.0	123.0	124.0	124.0	122.0	137.0
Indicator value	**97.5%**	**97.6%**	**95.2%**	**97.6%**	**100.0%**	**93.4%**

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	402	405	402	401	402	402
Total sirens-tests	402	406	402	402	402	402
Indicator value	**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/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

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	16.45	69.46	181.70	43.60	25.70	18.60
CCTV compensatory hours	62.0	18.4	15.0	19.7	53.1	9.9
IDS normalization factor	1.10	1.10	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	**0.053**	**0.049**	**0.028**	**0.022**	**0.022**	**0.019**

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	**1**	**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

Last Modified: March 28, 2002

Waterford 3

2Q/2001 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Unplanned scrams	0	0	0	0	0	1.0	0
Critical hours	2080.9	2149.4	2029.6	2208.0	1410.7	2127.0	2183.0
Indicator value	**3.0**	**2.7**	**1.8**	**0**	**0**	**0.9**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Scrams	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**

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	1.0	0	0	0	1.0	1.0
Critical hours	2080.9	2149.4	2029.6	2208.0	1410.7	2127.0	2183.0
Indicator value	**1.0**	**1.8**	**1.8**	**1.7**	**0.9**	**0.9**	**1.8**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	18.92	16.30	13.45	3.88	0	0	0
Unplanned unavailable hours	0	59.64	0.63	21.55	3.50	2.60	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	2160.00	2183.00
Train 2							
Planned unavailable hours	37.12	19.42	4.11	2.52	3.98	2.65	1.50
Unplanned unavailable hours	7.65	0	4.52	9.22	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	2160.00	2183.00
Indicator value	**0.6%**	**0.6%**	**0.7%**	**0.8%**	**0.7%**	**0.7%**	**0.7%**

Licensee Comments:

2Q/01: An 86.83 hour overhaul on Emergency Diesel Generator A was performed in May 2001. Additionally, a 71.26 hour overhaul on Emergency Diesel Generator B was performed in May 2001. Both these outage periods were well within the Tech Spec allowed outage time.

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	81.92	21.42	13.45	18.43	1.65	2.53	1.00
Unplanned unavailable hours	0	59.64	0.63	21.55	3.50	5.40	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	2149.40	2029.60	2208.00	1410.60	2127.00	2183.00
Train 2							
Planned unavailable hours	46.38	19.69	48.63	2.33	3.98	2.65	1.72
Unplanned unavailable hours	7.65	0	0	9.22	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	2149.40	2029.60	2208.00	1410.60	2127.00	2183.00
Indicator value	**0.7%**	**0.9%**	**0.9%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**

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)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01
Train 1							
Planned unavailable hours	18.92	36.00	13.45	3.88	0	0	0
Unplanned unavailable hours	0	59.64	0.63	21.55	3.50	2.60	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	2166.30	2053.80	2208.00	1457.60	2160.00	2183.00
Train 2							
Planned unavailable hours	28.90	19.42	12.58	0	3.98	2.65	1.50
Unplanned unavailable hours	7.65	0	0	9.22	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	2166.30	2053.80	2208.00	1457.60	2160.00	2183.00
Train 3							
Planned unavailable hours	0	0	0	0.22	0	0	7.90
Unplanned unavailable hours	6.15	0	0	0	0	0	0.87
Fault exposure hours	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2166.30	2053.80	2208.00	1457.60	2160.00	2183.00
Indicator value	**0.5%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**

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	54.82	16.30	14.68	18.91	2.45	0	0
Unplanned unavailable hours	0	59.64	0.63	21.85	3.50	2.60	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	2053.80	2208.00	1457.60	2160.00	2183.00
Train 2							
Planned unavailable hours	43.15	33.98	5.18	0.92	5.03	2.65	1.50
Unplanned unavailable hours	7.65	0	0	9.22	0	0	0
Fault exposure hours	9.25	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2053.80	2208.00	1457.60	2160.00	2183.00
Train 3							
Planned unavailable hours	54.82	16.30	0	0	0	0	0
Unplanned unavailable hours	0	59.64	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	129.20	0	549.20	0	0
Train 4							
Planned unavailable hours	43.15	33.98	0	0	0	0	0
Unplanned unavailable hours	7.65	0	0	0	0	0	0
Fault exposure hours	9.25	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	129.20	0	549.20	0	0
Indicator value	**0.7%**	**0.8%**	**0.8%**	**0.9%**	**0.9%**	**1.0%**	**1.0%**

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	0	0	0	1	0
Indicator value	**1**	**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	10/99	11/99	12/99	1/00	2/00	3/00	4/00	5/00	6/00	7/00	8/00	9/00
Maximum activity	0.004230	0.004420	0.004610	0.005010	0.005360	0.005890	0.005910	0.007120	0.006470	0.007090	0.006960	0.006990
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.6**	**0.6**	**0.7**	**0.6**	**0.7**	**0.7**	**0.7**

Reactor Coolant System Activity	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.007100	0.002710	0.003120	0.003460	0.004220	0.004250	0.004500	0.004500	0.004280
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.7**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.5**	**0.5**	**0.4**

Licensee Comments: none

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	0.122	0.557	0.233	0.308	0.381	0.420	0.014	0.020	0.028	0.027	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	**1.2**	**5.6**	**2.3**	**3.1**	**3.8**	**4.2**	**0.1**	**0.2**	**0.3**	**0.3**	**0.1**	**0.1**

Reactor Coolant System Leakage	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum leakage	0.014	1.452	0.014	0.028	0.028	0.028	0.028	0.028	0.028
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.1**	**14.5**	**0.1**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**

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	43.0	51.0	62.0	46.0	10.0	12.0	20.0
Total opportunities	44.0	54.0	64.0	50.0	10.0	12.0	20.0
Indicator value	**94.4%**	**93.9%**	**94.7%**	**94.1%**	**94.3%**	**94.5%**	**94.4%**

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
Participating Key personnel	78.0	120.0	118.0	121.0	122.0	128.0	129.0
Total Key personnel	80.0	123.0	124.0	124.0	122.0	137.0	138.0
Indicator value	**97.5%**	**97.6%**	**95.2%**	**97.6%**	**100.0%**	**93.4%**	**93.5%**

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	402	405	402	401	402	402	402
Total sirens-tests	402	406	402	402	402	402	402
Indicator value	**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/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

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	16.45	69.46	181.70	43.60	25.70	18.60	65.40
CCTV compensatory hours	62.0	18.4	15.0	19.7	53.1	9.9	5.9
IDS normalization factor	1.10	1.10	1.10	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	**0.053**	**0.049**	**0.028**	**0.022**	**0.022**	**0.019**	**0.013**

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
Program failures	0	0	0	0	0	0	0
Indicator value	**1**	**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

Last Modified: March 27, 2002

Waterford 3

3Q/2001 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2080.9	2149.4	2029.6	2208.0	1410.7	2127.0	2183.0	2208.0
Indicator value	**3.0**	**2.7**	**1.8**	**0**	**0**	**0.9**	**0.9**	**0.9**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Scrams	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**

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	1.0	0	0	0	1.0	1.0	0
Critical hours	2080.9	2149.4	2029.6	2208.0	1410.7	2127.0	2183.0	2208.0
Indicator value	**1.0**	**1.8**	**1.8**	**1.7**	**0.9**	**0.9**	**1.8**	**1.8**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	18.92	16.30	13.45	3.88	0	0	0	0
Unplanned unavailable hours	0	59.64	0.63	21.55	3.50	2.60	0	16.33
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	37.12	19.42	4.11	2.52	3.98	2.65	1.50	0
Unplanned unavailable hours	7.65	0	4.52	9.22	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.6%**	**0.6%**	**0.7%**	**0.8%**	**0.7%**	**0.7%**	**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)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	81.92	21.42	13.45	18.43	1.65	2.53	1.00	22.43
Unplanned unavailable hours	0	59.64	0.63	21.55	3.50	5.40	0	0.58
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	2149.40	2029.60	2208.00	1410.60	2127.00	2183.00	2208.00
Train 2								
Planned unavailable hours	46.38	19.69	48.63	2.33	3.98	2.65	1.72	0
Unplanned unavailable hours	7.65	0	0	9.22	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2149.40	2029.60	2208.00	1410.60	2127.00	2183.00	2208.00
Indicator value	**0.7%**	**0.9%**	**0.9%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**

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)	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Train 1								
Planned unavailable hours	18.92	36.00	13.45	3.88	0	0	0	11.00
Unplanned unavailable hours	0	59.64	0.63	21.55	3.50	2.60	0	0.58
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	2166.30	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	28.90	19.42	12.58	0	3.98	2.65	1.50	8.38
Unplanned unavailable hours	7.65	0	0	9.22	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2166.30	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	0	0	0.22	0	0	7.90	0
Unplanned unavailable hours	6.15	0	0	0	0	0	0.87	0
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	2166.30	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00
Indicator value	**0.5%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**

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	54.82	16.30	14.68	18.91	2.45	0	0	0
Unplanned unavailable hours	0	59.64	0.63	21.85	3.50	2.60	0	0.58
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	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	43.15	33.98	5.18	0.92	5.03	2.65	1.50	0
Unplanned unavailable hours	7.65	0	0	9.22	0	0	0	0
Fault exposure hours	9.25	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	54.82	16.30	0	0	0	0	0	0
Unplanned unavailable hours	0	59.64	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	129.20	0	549.20	0	0	0
Train 4								
Planned unavailable hours	43.15	33.98	0	0	0	0	0	0
Unplanned unavailable hours	7.65	0	0	0	0	0	0	0
Fault exposure hours	9.25	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2184.00	129.20	0	549.20	0	0	0
Indicator value	**0.7%**	**0.8%**	**0.8%**	**0.9%**	**0.9%**	**1.0%**	**1.0%**	**1.0%**

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	0	0	0	1	0	0
Indicator value	**1**	**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	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	0.004230	0.004420	0.004610	0.005010	0.005360	0.005890	0.005910	0.007120	0.006470	0.007090	0.006960	0.006990
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.5**	**0.5**	**0.5**	**0.6**	**0.6**	**0.7**	**0.6**	**0.7**	**0.7**	**0.7**

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	0.007100	0.002710	0.003120	0.003460	0.004220	0.004250	0.004500	0.004500	0.004280	0.005040	0.005940	0.005670
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.7**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.5**	**0.5**	**0.4**	**0.5**	**0.6**	**0.6**

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	0.122	0.557	0.233	0.308	0.381	0.420	0.014	0.020	0.028	0.027	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	**1.2**	**5.6**	**2.3**	**3.1**	**3.8**	**4.2**	**0.1**	**0.2**	**0.3**	**0.3**	**0.1**	**0.1**

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	0.014	1.452	0.014	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
Technical specification limit	10.0	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**	**14.5**	**0.1**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**

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	43.0	51.0	62.0	46.0	10.0	12.0	20.0	21.0
Total opportunities	44.0	54.0	64.0	50.0	10.0	12.0	20.0	22.0
Indicator value	**94.4%**	**93.9%**	**94.7%**	**94.1%**	**94.3%**	**94.5%**	**94.4%**	**96.0%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	4Q/99	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01
Participating Key personnel	78.0	120.0	118.0	121.0	122.0	128.0	129.0	135.0
Total Key personnel	80.0	123.0	124.0	124.0	122.0	137.0	138.0	136.0
Indicator value	**97.5%**	**97.6%**	**95.2%**	**97.6%**	**100.0%**	**93.4%**	**93.5%**	**99.3%**

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	3Q/01
Successful siren-tests	402	405	402	401	402	402	402	401
Total sirens-tests	402	406	402	402	402	402	402	402
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/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

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	16.45	69.46	181.70	43.60	25.70	18.60	65.40	8.60
CCTV compensatory hours	62.0	18.4	15.0	19.7	53.1	9.9	5.9	31.3
IDS normalization factor	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	**0.053**	**0.049**	**0.028**	**0.022**	**0.022**	**0.019**	**0.013**	**0.011**

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	**1**	**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

Waterford 3

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	0	0	0	1.0	0	0	0
Critical hours	2149.4	2029.6	2208.0	1410.7	2127.0	2183.0	2208.0	2209.0
Indicator value	**2.7**	**1.8**	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.8**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Unplanned power changes	1.0	0	0	0	1.0	1.0	0	0
Critical hours	2149.4	2029.6	2208.0	1410.7	2127.0	2183.0	2208.0	2209.0
Indicator value	**1.8**	**1.8**	**1.7**	**0.9**	**0.9**	**1.8**	**1.8**	**1.6**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	16.30	13.45	3.88	0	0	0	0	5.68
Unplanned unavailable hours	59.64	0.63	21.55	3.50	2.60	0	16.33	47.48
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	19.42	4.11	2.52	3.98	2.65	1.50	0	1.92
Unplanned unavailable hours	0	4.52	9.22	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	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.6%**	**0.7%**	**0.8%**	**0.7%**	**0.7%**	**0.7%**	**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)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	21.42	13.45	18.43	1.65	2.53	1.00	22.43	14.38
Unplanned unavailable hours	59.64	0.63	21.55	3.50	5.40	0	0.58	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2149.40	2029.60	2208.00	1410.60	2127.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	19.69	48.63	2.33	3.98	2.65	1.72	0	0
Unplanned unavailable hours	0	0	9.22	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	2149.40	2029.60	2208.00	1410.60	2127.00	2183.00	2208.00	2209.00
Indicator value	**0.9%**	**0.9%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**

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)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	36.00	13.45	3.88	0	0	0	11.00	14.38
Unplanned unavailable hours	59.64	0.63	21.55	3.50	2.60	0	0.58	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2166.30	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	19.42	12.58	0	3.98	2.65	1.50	8.38	0.32
Unplanned unavailable hours	0	0	9.22	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	2166.30	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	0.22	0	0	7.90	0	0
Unplanned unavailable hours	0	0	0	0	0	0.87	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2166.30	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Train 1								
Planned unavailable hours	16.30	14.68	18.91	2.45	0	0	0	14.38
Unplanned unavailable hours	59.64	0.63	21.85	3.50	2.60	0	0.58	0
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	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	33.98	5.18	0.92	5.03	2.65	1.50	0	18.52
Unplanned unavailable hours	0	0	9.22	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	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	16.30	0	0	0	0	0	0	0
Unplanned unavailable hours	59.64	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	129.20	0	549.20	0	0	0	0
Train 4								
Planned unavailable hours	33.98	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	129.20	0	549.20	0	0	0	0
Indicator value	**0.8%**	**0.8%**	**0.9%**	**0.9%**	**1.0%**	**1.0%**	**1.0%**	**1.1%**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Safety System Functional Failures	0	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	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	0.005010	0.005360	0.005890	0.005910	0.007120	0.006470	0.007090	0.006960	0.006990	0.007100	0.002710	0.003120
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.5**	**0.6**	**0.6**	**0.7**	**0.6**	**0.7**	**0.7**	**0.7**	**0.7**	**0.3**	**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	0.003460	0.004220	0.004250	0.004500	0.004500	0.004280	0.005040	0.005940	0.005670	0.005640	0.005650	0.005870
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.4**	**0.4**	**0.5**	**0.5**	**0.4**	**0.5**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**

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	0.308	0.381	0.420	0.014	0.020	0.028	0.027	0.014	0.014	0.014	1.452	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	**3.1**	**3.8**	**4.2**	**0.1**	**0.2**	**0.3**	**0.3**	**0.1**	**0.1**	**0.1**	**14.5**	**0.1**

Reactor Coolant System Leakage	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum leakage	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.051	0.028	0.027
Technical specification limit	10.0	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**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.5**	**0.3**	**0.3**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/00	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01
Successful opportunities	51.0	62.0	46.0	10.0	12.0	20.0	21.0	43.0
Total opportunities	54.0	64.0	50.0	10.0	12.0	20.0	22.0	46.0
Indicator value	**93.9%**	**94.7%**	**94.1%**	**94.3%**	**94.5%**	**94.4%**	**96.0%**	**95.3%**

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	120.0	118.0	121.0	122.0	128.0	129.0	135.0	130.0
Total Key personnel	123.0	124.0	124.0	122.0	137.0	138.0	136.0	135.0
Indicator value	**97.6%**	**95.2%**	**97.6%**	**100.0%**	**93.4%**	**93.5%**	**99.3%**	**96.3%**

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	405	402	401	402	402	402	401	401
Total sirens-tests	406	402	402	402	402	402	402	402
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	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	69.46	181.70	43.60	25.70	18.60	65.40	8.60	8.70
CCTV compensatory hours	18.4	15.0	19.7	53.1	9.9	5.9	31.3	14.8
IDS normalization factor	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	**0.049**	**0.028**	**0.022**	**0.022**	**0.019**	**0.013**	**0.011**	**0.008**

Licensee Comments: none

Personnel Screening Program

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

FFD/Personnel Reliability

Thresholds: White > 2.0 Yellow > 5.0

Notes

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

Licensee Comments: none

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

Last Modified: March 15, 2002

Waterford 3

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	0	0	0	1.0	0	0	0	0
Critical hours	2029.6	2208.0	1410.7	2127.0	2183.0	2208.0	2209.0	1942.9
Indicator value	**1.8**	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.8**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**

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	2029.6	2208.0	1410.7	2127.0	2183.0	2208.0	2209.0	1942.9
Indicator value	**1.8**	**1.7**	**0.9**	**0.9**	**1.8**	**1.8**	**1.6**	**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	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	13.45	3.88	0	0	0	0	5.68	9.95
Unplanned unavailable hours	0.63	21.55	3.50	2.60	0	16.33	47.48	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	4.11	2.52	3.98	2.65	1.50	0	1.92	12.77
Unplanned unavailable hours	4.52	9.22	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.7%**	**0.8%**	**0.7%**	**0.7%**	**0.7%**	**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)	2Q/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	13.45	18.43	1.65	2.53	1.00	22.43	14.38	9.80
Unplanned unavailable hours	0.63	21.55	3.50	5.40	0	0.58	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2029.60	2208.00	1410.60	2127.00	2183.00	2208.00	2209.00	1952.78
Train 2								
Planned unavailable hours	48.63	2.33	3.98	2.65	1.72	0	0	14.42
Unplanned unavailable hours	0	9.22	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	2029.60	2208.00	1410.60	2127.00	2183.00	2208.00	2209.00	1952.78
Indicator value	**0.9%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**

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/00	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02
Train 1								
Planned unavailable hours	13.45	3.88	0	0	0	11.00	14.38	9.80
Unplanned unavailable hours	0.63	21.55	3.50	2.60	0	0.58	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00	2209.00	1952.78
Train 2								
Planned unavailable hours	12.58	0	3.98	2.65	1.50	8.38	0.32	12.77
Unplanned unavailable hours	0	9.22	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	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00	2209.00	1952.78
Train 3								
Planned unavailable hours	0	0.22	0	0	7.90	0	0	0
Unplanned unavailable hours	0	0	0	0	0.87	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00	2209.00	1952.78
Indicator value	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**

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	14.68	18.91	2.45	0	0	0	14.38	9.80
Unplanned unavailable hours	0.63	21.85	3.50	2.60	0	0.58	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00	2209.00	1952.78
Train 2								
Planned unavailable hours	5.18	0.92	5.03	2.65	1.50	0	18.52	34.25
Unplanned unavailable hours	0	9.22	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	2053.80	2208.00	1457.60	2160.00	2183.00	2208.00	2209.00	1952.78
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	2.83
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	129.20	0	549.20	0	0	0	0	207.22
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	2.93
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	129.20	0	549.20	0	0	0	0	207.22
Indicator value	**0.8%**	**0.9%**	**0.8%**	**0.8%**	**0.8%**	**0.7%**	**0.8%**	**1.1%**

Licensee Comments:

1Q/02: Waterford 3 has revised historical data for the Residual Heat Removal System utilizing the reporting method described as option 3 in FAQ 298. Revising the data did not cause any changes in past or present color results.

1Q/00: The majority of unavailability reported in the 1st Quarter 2000 was due to the cascading of support sytem unavailability. In the 4th quarter 2000 submittal, changes were made in the hours reported for the 1st quarter 2000 due to data generation errors discovered during an internal assessment. The revised data does not change the PI color.

4Q/99: The reported unavailability hours from the first quarter of 1997 to the third quarter of 1999 uses the safety system performance indicator data submitted to WANO. Equipment unavailability for that period was not re-examined to the criteria of NEI 99-02, Draft, Rev D. However, the historical data will be reviewed to determine if support system unavailability was accurately cascaded into the reported system in past WANO submittals. This review should be complete for the next subsequent submittal. Note that fault exposure hours occurring prior to the third quarter of 1999 would have been included in the unplanned unavailability hours. The data for the fourth quarter of 1999 was determined using the guidance of NEI 99-02, Draft, Rev D. Note: The Containment Spray system, as well as the Shutdown Cooling mode of LPSI, comprises the RHR function. Because the RHR system is needed at all times, the number of hours required for RHR system availability is the total hours in the quarter. Unavailability occurs when a train is unable to perform its intended safety function when it is required to be available to perform that function. If a component is not required in certain modes, it is because it is not needed to meet a safety function under those conditions. For example, unavailability is not counted for the Containment Spray system when it is manually isolated and aligned for shutdown cooling in modes 4, 5 and 6. Change to previously submitted data: Hours in the 4th quarter 1999 were reduced because a re-examination of the data determined that unavailable hours had been erroneously counted when the Shutdown Cooling function was not required in Modes 1-3. This did not result in a color change.

Safety System Functional Failures (PWR)

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

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	0.005910	0.007120	0.006470	0.007090	0.006960	0.006990	0.007100	0.002710	0.003120	0.003460	0.004220	0.004250
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.6**	**0.7**	**0.6**	**0.7**	**0.7**	**0.7**	**0.7**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**

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	0.004500	0.004500	0.004280	0.005040	0.005940	0.005670	0.005640	0.005650	0.005870	0.005610	0.005930	0.015200
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.5**	**0.4**	**0.5**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**1.5**

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	0.014	0.020	0.028	0.027	0.014	0.014	0.014	1.452	0.014	0.028	0.028	0.028
Technical specification limit	10.0	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**	**0.3**	**0.3**	**0.1**	**0.1**	**0.1**	**14.5**	**0.1**	**0.3**	**0.3**	**0.3**

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	0.028	0.028	0.028	0.028	0.028	0.028	0.051	0.028	0.027	0.033	0.014	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**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.5**	**0.3**	**0.3**	**0.3**	**0.1**	**0.3**

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	62.0	46.0	10.0	12.0	20.0	21.0	43.0	38.0
Total opportunities	64.0	50.0	10.0	12.0	20.0	22.0	46.0	38.0
Indicator value	**94.7%**	**94.1%**	**94.3%**	**94.5%**	**94.4%**	**96.0%**	**95.3%**	**96.2%**

Licensee Comments: none

ERO Drill Participation

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	118.0	121.0	122.0	128.0	129.0	135.0	130.0	141.0
Total Key personnel	124.0	124.0	122.0	137.0	138.0	136.0	135.0	142.0
Indicator value	**95.2%**	**97.6%**	**100.0%**	**93.4%**	**93.5%**	**99.3%**	**96.3%**	**99.3%**

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	402	401	402	402	402	401	401	420
Total sirens-tests	402	402	402	402	402	402	402	420
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	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	181.70	43.60	25.70	18.60	65.40	8.60	8.70	81.80
CCTV compensatory hours	15.0	19.7	53.1	9.9	5.9	31.3	14.8	14.3
IDS normalization factor	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	**0.028**	**0.022**	**0.022**	**0.019**	**0.013**	**0.011**	**0.008**	**0.012**

Licensee Comments: none

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

Waterford 3

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	1.0	0	0	0	0	0
Critical hours	2208.0	1410.7	2127.0	2183.0	2208.0	2209.0	1942.9	1806.0
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.8**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**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	1410.7	2127.0	2183.0	2208.0	2209.0	1942.9	1806.0
Indicator value	**1.7**	**0.9**	**0.9**	**1.8**	**1.8**	**1.6**	**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	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	3.88	0	0	0	0	5.68	9.95	0
Unplanned unavailable hours	21.55	3.50	2.60	0	16.33	47.48	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	2.52	3.98	2.65	1.50	0	1.92	12.77	0
Unplanned unavailable hours	9.22	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.8%**	**0.7%**	**0.7%**	**0.7%**	**0.7%**	**0.7%**	**0.8%**	**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)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	18.43	1.65	2.53	1.00	22.43	14.38	9.80	0
Unplanned unavailable hours	21.55	3.50	5.40	0	0.58	0	0	0
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	1410.60	2127.00	2183.00	2208.00	2209.00	1952.78	1838.62
Train 2								
Planned unavailable hours	2.33	3.98	2.65	1.72	0	0	14.42	0
Unplanned unavailable hours	9.22	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	1410.60	2127.00	2183.00	2208.00	2209.00	1952.78	1838.62
Indicator value	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**	**1.0%**

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)	3Q/00	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02
Train 1								
Planned unavailable hours	3.88	0	0	0	11.00	14.38	9.80	6.22
Unplanned unavailable hours	21.55	3.50	2.60	0	0.58	0	0	0
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	1457.60	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62
Train 2								
Planned unavailable hours	0	3.98	2.65	1.50	8.38	0.32	12.77	0
Unplanned unavailable hours	9.22	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	1457.60	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62
Train 3								
Planned unavailable hours	0.22	0	0	7.90	0	0	0	0
Unplanned unavailable hours	0	0	0	0.87	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1457.60	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62
Indicator value	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.5%**

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	18.91	2.45	0	0	0	14.38	9.80	0
Unplanned unavailable hours	21.85	3.50	2.60	0	0.58	0	0	0
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	1457.60	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62
Train 2								
Planned unavailable hours	0.92	5.03	2.65	1.50	0	18.52	34.25	0
Unplanned unavailable hours	9.22	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	1457.60	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	2.83	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	549.20	0	0	0	0	207.22	345.38
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	2.93	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	549.20	0	0	0	0	207.22	345.38
Indicator value	**0.9%**	**0.8%**	**0.8%**	**0.8%**	**0.7%**	**0.8%**	**1.1%**	**1.0%**

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	1	0	0	0	1	2
Indicator value	**0**	**0**	**1**	**1**	**1**	**1**	**1**	**3**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	7/00	8/00	9/00	10/00	11/00	12/00	1/01	2/01	3/01	4/01	5/01	6/01
Maximum activity	0.007090	0.006960	0.006990	0.007100	0.002710	0.003120	0.003460	0.004220	0.004250	0.004500	0.004500	0.004280
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.7**	**0.7**	**0.7**	**0.7**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.5**	**0.5**	**0.4**

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	0.005040	0.005940	0.005670	0.005640	0.005650	0.005870	0.005610	0.005930	0.015200	0.001890	0.002180	0.002270
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**1.5**	**0.2**	**0.2**	**0.2**

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	0.027	0.014	0.014	0.014	1.452	0.014	0.028	0.028	0.028	0.028	0.028	0.028
Technical specification limit	10.0	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**	**0.1**	**0.1**	**0.1**	**14.5**	**0.1**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**

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	0.028	0.028	0.028	0.051	0.028	0.027	0.033	0.014	0.026	0.030	0.040	0.027
Technical specification limit	10.0	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**	**0.3**	**0.5**	**0.3**	**0.3**	**0.3**	**0.1**	**0.3**	**0.3**	**0.4**	**0.3**

Licensee Comments: none

Drill/Exercise Performance

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	46.0	10.0	12.0	20.0	21.0	43.0	38.0	17.0
Total opportunities	50.0	10.0	12.0	20.0	22.0	46.0	38.0	18.0
Indicator value	**94.1%**	**94.3%**	**94.5%**	**94.4%**	**96.0%**	**95.3%**	**96.2%**	**95.8%**

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	122.0	128.0	129.0	135.0	130.0	141.0	127.0
Total Key personnel	124.0	122.0	137.0	138.0	136.0	135.0	142.0	129.0
Indicator value	**97.6%**	**100.0%**	**93.4%**	**93.5%**	**99.3%**	**96.3%**	**99.3%**	**98.4%**

Licensee Comments: none

Alert & Notification System

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	401	402	402	402	401	401	420	419
Total sirens-tests	402	402	402	402	402	402	420	420
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	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	43.60	25.70	18.60	65.40	8.60	8.70	82.10	7.90
CCTV compensatory hours	19.7	53.1	9.9	5.9	31.3	14.8	14.3	0
IDS normalization factor	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	**0.022**	**0.022**	**0.019**	**0.013**	**0.011**	**0.008**	**0.012**	**0.009**

Licensee Comments:

2Q/02: The IDS PI number for March 2002 was incorrectly reported as 33.2 hours. The correct number is 33.5 hours. This change does not effect the PI color. Accordingly, a change report was submitted to make this correction.

1Q/02: The IDS PI number for March 2002 was incorrectly reported as 33.2 hours. The correct number is 33.5 hours. This change does not effect the PI color. Accordingly, a change report was submitted to make this correction.

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

Waterford 3

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	1.0	0	0	0	0	0	0
Critical hours	1410.7	2127.0	2183.0	2208.0	2209.0	1942.9	1806.0	2208.0
Indicator value	**0**	**0.9**	**0.9**	**0.9**	**0.8**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**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	1410.7	2127.0	2183.0	2208.0	2209.0	1942.9	1806.0	2208.0
Indicator value	**0.9**	**0.9**	**1.8**	**1.8**	**1.6**	**0.8**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	0	0	0	0	5.68	9.95	0	0
Unplanned unavailable hours	0	0	0	16.33	47.48	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	3.98	2.65	1.50	0	1.92	12.77	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	8.02
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.5%**	**0.4%**	**0.4%**

Licensee Comments:

3Q/02: Engineering has re-evaluated Emergency AC Power System unavailability hours for the following quarters: 4Q1999, 1Q2000, 2Q2000, 3Q2000, 4Q2000, and 1Q2001. Based on that evaluation, several reductions in the system unavailable hours has been identified. Revised data has been submitted with the 3rd quarter 2002 submittal via a change report. The changes have no affect on the past or present color of this performance 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)	**4Q/00**	**1Q/01**	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**
Train 1								
Planned unavailable hours	0	1.53	0	22.43	14.38	9.80	0	0
Unplanned unavailable hours	0	2.80	0	0.58	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	1457.62	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00
Train 2								
Planned unavailable hours	3.98	2.65	1.50	0	0	14.42	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	1457.62	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00
Indicator value	**0.5%**	**0.5%**	**0.4%**	**0.5%**	**0.4%**	**0.5%**	**0.4%**	**0.4%**

Licensee Comments:

3Q/02: Engineering has re-evaluated High Pressure Injection System unavailability hours for the following quarters: 4Q1999, 1Q2000, 2Q2000, 3Q2000, 4Q2000, 1Q2001, and 2Q2001. Based on that evaluation, several reductions in the system unavailable hours has been identified. Revised data has been submitted with the 3rd quarter 2002 submittal via a change report. The changes have no affect on the past or present color of this performance indicator.

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	0	0	0	11.00	14.38	9.80	6.22	0
Unplanned unavailable hours	0	0	0	0.58	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	1457.62	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00
Train 2								
Planned unavailable hours	3.98	2.65	1.50	8.38	0.32	12.77	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	1457.62	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00
Train 3								
Planned unavailable hours	0	0	7.90	0	0	0	0	0
Unplanned unavailable hours	0	0	0.87	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1457.62	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.2%**

Licensee Comments:

3Q/02: Engineering has re-evaluated Heat Removal System unavailability hours for the following quarters: 4Q1999, 1Q2000, 2Q2000, 3Q2000, 4Q2000, and 1Q2001. Based on that evaluation, several reductions in the system unavailable hours has been identified. Revised data has been submitted with the 3rd quarter 2002 submittal via a change report. The changes have no affect on the past or present color of this performance indicator.

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	4Q/00	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02
Train 1								
Planned unavailable hours	0	0	0	0	14.38	9.80	0	0
Unplanned unavailable hours	0	0	0	0.58	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	1457.62	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00
Train 2								
Planned unavailable hours	3.98	2.65	1.50	0	18.52	34.25	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	1457.62	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	2.83	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	549.21	0	0	0	0	207.22	345.38	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	2.93	0	0
Effective Reset hours	0	0	0	0	0	0	0	0

Required hours	549.21	0	0	0	0	207.22	345.38	0
Indicator value	**0.6%**	**0.6%**	**0.6%**	**0.5%**	**0.6%**	**0.9%**	**0.8%**	**0.4%**

Licensee Comments:

3Q/02: Engineering has re-evaluated Residual Heat Removal System unavailability hours for the following quarters: 4Q1999, 1Q2000, 2Q2000, 3Q2000, 4Q2000, and 1Q2001. Based on that evaluation, several reductions in the system unavailable hours has been identified. Revised data has been submitted with the 3rd quarter 2002 submittal via a change report. The changes have no affect on the past or present color of this performance indicator.

Safety System Functional Failures (PWR)

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	1	0	0	0	1	2	0
Indicator value	**0**	**1**	**1**	**1**	**1**	**1**	**3**	**3**

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	0.007100	0.002710	0.003120	0.003460	0.004220	0.004250	0.004500	0.004500	0.004280	0.005040	0.005940	0.005670
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.7**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.5**	**0.5**	**0.4**	**0.5**	**0.6**	**0.6**

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	0.005640	0.005650	0.005870	0.005610	0.005930	0.015200	0.001890	0.002180	0.002270	0.002460	0.002440	0.002570
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**1.5**	**0.2**	**0.2**	**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	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	0.014	1.452	0.014	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028
Technical specification limit	10.0	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**	**14.5**	**0.1**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**

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	0.051	0.028	0.027	0.033	0.014	0.026	0.030	0.040	0.027	0.039	0.028	0.028
Technical specification limit	10.0	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**	**0.3**	**0.3**	**0.3**	**0.1**	**0.3**	**0.3**	**0.4**	**0.3**	**0.4**	**0.3**	**0.3**

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	10.0	12.0	20.0	21.0	43.0	38.0	17.0	31.0
Total opportunities	10.0	12.0	20.0	22.0	46.0	38.0	18.0	34.0
Indicator value	**94.3%**	**94.5%**	**94.4%**	**96.0%**	**95.3%**	**96.2%**	**95.8%**	**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	122.0	128.0	129.0	135.0	130.0	139.0	125.0	127.0
Total Key personnel	122.0	137.0	138.0	136.0	135.0	140.0	127.0	131.0
Indicator value	**100.0%**	**93.4%**	**93.5%**	**99.3%**	**96.3%**	**99.3%**	**98.4%**	**96.9%**

Licensee Comments:

3Q/02: Corrections were made for the 1st and 2nd quarter 2002 ERO Drill Participation. They were made because an individual was given credit when his qualifications had expired. The 1st quarter 2002 was originally reported as 141 of 142. The 2nd quarter 2002 was originally reported as 127 of 129. This correction does not affect the past or current color of this performance indicator.

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	402	402	402	401	401	420	419	420
Total sirens-tests	402	402	402	402	402	420	420	420
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

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	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/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

Protected Area Security Performance Index

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	25.70	18.60	65.40	8.60	8.70	82.10	7.90	65.40
CCTV compensatory hours	53.1	9.9	5.9	31.3	14.8	14.3	0	36.8
IDS normalization factor	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	**0.022**	**0.019**	**0.013**	**0.011**	**0.008**	**0.012**	**0.009**	**0.012**

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

Waterford 3

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	1.0	0	0	0	0	0	0	0
Critical hours	2127.0	2183.0	2208.0	2209.0	1942.9	1806.0	2208.0	2209.0
Indicator value	**0.9**	**0.9**	**0.9**	**0.8**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**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	2127.0	2183.0	2208.0	2209.0	1942.9	1806.0	2208.0	2209.0
Indicator value	**0.9**	**1.8**	**1.8**	**1.6**	**0.8**	**0**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	0	0	0	5.68	9.95	0	0	0
Unplanned unavailable hours	0	0	16.33	47.48	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	2.65	1.50	0	1.92	12.77	0	0	30.53
Unplanned unavailable hours	0	0	0	0	0	0	8.02	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	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.5%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	1.53	0	22.43	14.38	9.80	0	0	0
Unplanned unavailable hours	2.80	0	0.58	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00	2209.00
Train 2								
Planned unavailable hours	2.65	1.50	0	0	14.42	0	0	30.53
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	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00	2209.00
Indicator value	**0.5%**	**0.4%**	**0.5%**	**0.4%**	**0.5%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Train 1								
Planned unavailable hours	0	0	11.00	14.38	9.80	6.22	0	0
Unplanned unavailable hours	0	0	0.58	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00	2209.00
Train 2								
Planned unavailable hours	2.65	1.50	8.38	0.32	12.77	0	0	30.53
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	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00	2209.00
Train 3								
Planned unavailable hours	0	7.90	0	0	0	0	0	0
Unplanned unavailable hours	0	0.87	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00	2209.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**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	0	0	0	14.38	9.80	0	0	0
Unplanned unavailable hours	0	0	0.58	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00	2209.00
Train 2								
Planned unavailable hours	2.65	1.50	0	18.52	34.25	0	0	30.53
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	2160.00	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	2.83	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	207.22	345.38	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	2.93	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	207.22	345.38	0	0
Indicator value	**0.6%**	**0.6%**	**0.5%**	**0.6%**	**0.9%**	**0.8%**	**0.4%**	**0.3%**

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	1	0	0	0	1	2	0	0
Indicator value	**1**	**1**	**1**	**1**	**1**	**3**	**3**	**3**

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	0.003460	0.004220	0.004250	0.004500	0.004500	0.004280	0.005040	0.005940	0.005670	0.005640	0.005650	0.005870
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.4**	**0.4**	**0.5**	**0.5**	**0.4**	**0.5**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**

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	0.005610	0.005930	0.015200	0.001890	0.002180	0.002270	0.002460	0.002440	0.002570	0.002580	0.002680	0.002780
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.6**	**0.6**	**1.5**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.3**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/01	2/01	3/01	4/01	5/01	6/01	7/01	8/01	9/01	10/01	11/01	12/01
Maximum leakage	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.051	0.028	0.027
Technical specification limit	10.0	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**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.5**	**0.3**	**0.3**

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	0.033	0.014	0.026	0.030	0.040	0.027	0.039	0.028	0.028	0.028	0.040	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	**0.3**	**0.1**	**0.3**	**0.3**	**0.4**	**0.3**	**0.4**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/01	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02
Successful opportunities	12.0	20.0	21.0	43.0	38.0	17.0	31.0	27.0
Total opportunities	12.0	20.0	22.0	46.0	38.0	18.0	34.0	28.0
Indicator value	**94.5%**	**94.4%**	**96.0%**	**95.3%**	**96.2%**	**95.8%**	**96.0%**	**95.9%**

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	128.0	129.0	135.0	130.0	139.0	125.0	127.0	126.0
Total Key personnel	137.0	138.0	136.0	135.0	140.0	127.0	131.0	129.0
Indicator value	**93.4%**	**93.5%**	**99.3%**	**96.3%**	**99.3%**	**98.4%**	**96.9%**	**97.7%**

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	402	402	401	401	420	419	420	418
Total sirens-tests	402	402	402	402	420	420	420	420
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.9%**	**99.8%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

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	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/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	18.60	65.40	8.60	8.70	82.10	7.90	65.40	119.10
CCTV compensatory hours	9.9	5.9	31.3	14.8	14.3	0	36.8	0.3
IDS normalization factor	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	**0.019**	**0.013**	**0.011**	**0.008**	**0.012**	**0.009**	**0.012**	**0.017**

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

Waterford 3

1Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	2208.0	2209.0	1942.9	1806.0	2208.0	2209.0	2115.1
Indicator value	**0.9**	**0.9**	**0.8**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	**1.0**	**1.0**	**1.0**	**1.0**	**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	1.0
Critical hours	2183.0	2208.0	2209.0	1942.9	1806.0	2208.0	2209.0	2115.1
Indicator value	**1.8**	**1.8**	**1.6**	**0.8**	**0**	**0**	**0**	**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	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0	0	5.68	9.95	0	0	0	0
Unplanned unavailable hours	0	16.33	47.48	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	1.50	0	1.92	12.77	0	0	30.53	25.08
Unplanned unavailable hours	0	0	0	0	0	8.02	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	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.5%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	**2Q/01**	**3Q/01**	**4Q/01**	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**
Train 1								
Planned unavailable hours	0	22.43	14.38	9.80	0	0	0	0
Unplanned unavailable hours	0	0.58	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	1952.78	1838.62	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	1.50	0	0	14.42	0	0	30.53	45.46
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	1952.78	1838.62	2208.00	2209.00	2160.00
Indicator value	**0.4%**	**0.5%**	**0.4%**	**0.5%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0	11.00	14.38	9.80	6.22	0	0	11.77
Unplanned unavailable hours	0	0.58	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	1952.78	1838.62	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	1.50	8.38	0.32	12.77	0	0	30.53	30.40
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	1952.78	1838.62	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	7.90	0	0	0	0	0	0	0
Unplanned unavailable hours	0.87	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	1952.78	1838.62	2208.00	2209.00	2160.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.2%**	**0.2%**	**0.3%**

Licensee Comments: none

Safety System Unavailability, Residual Heat Removal System

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

Notes

Safety System Unavailability, Residual Heat Removal System	2Q/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
Train 1								
Planned unavailable hours	0	0	14.38	9.80	0	0	0	0
Unplanned unavailable hours	0	0.58	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	1952.78	1838.62	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	1.50	0	18.52	34.25	0	0	30.53	46.38
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	1952.78	1838.62	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	2.83	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	207.22	345.38	0	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	2.93	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	207.22	345.38	0	0	0
Indicator value	**0.6%**	**0.5%**	**0.6%**	**0.9%**	**0.8%**	**0.4%**	**0.3%**	**0.3%**

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	1	2	0	0	0
Indicator value	**1**	**1**	**1**	**1**	**3**	**3**	**3**	**2**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/01**	**5/01**	**6/01**	**7/01**	**8/01**	**9/01**	**10/01**	**11/01**	**12/01**	**1/02**	**2/02**	**3/02**
Maximum activity	0.004500	0.004500	0.004280	0.005040	0.005940	0.005670	0.005640	0.005650	0.005870	0.005610	0.005930	0.015200
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.5**	**0.4**	**0.5**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**1.5**

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	0.001890	0.002180	0.002270	0.002460	0.002440	0.002570	0.002580	0.002680	0.002780	0.002890	0.002810	0.002970
Technical specification limit	1.0	1.0	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**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**

Licensee Comments: none

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	0.028	0.028	0.028	0.028	0.028	0.028	0.051	0.028	0.027	0.033	0.014	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**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.5**	**0.3**	**0.3**	**0.3**	**0.1**	**0.3**

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	0.030	0.040	0.027	0.039	0.028	0.028	0.028	0.040	0.036	0.089	0.033	0.028
Technical specification limit	10.0	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**	**0.3**	**0.4**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.9**	**0.3**	**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	20.0	21.0	43.0	38.0	17.0	31.0	27.0	26.0
Total opportunities	20.0	22.0	46.0	38.0	18.0	34.0	28.0	26.0
Indicator value	**94.4%**	**96.0%**	**95.3%**	**96.2%**	**95.8%**	**96.0%**	**95.9%**	**96.1%**

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	129.0	135.0	130.0	139.0	125.0	127.0	126.0	130.0
Total Key personnel	138.0	136.0	135.0	140.0	127.0	131.0	129.0	130.0
Indicator value	**93.5%**	**99.3%**	**96.3%**	**99.3%**	**98.4%**	**96.9%**	**97.7%**	**100.0%**

Licensee Comments: none

Alert & Notification System

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	402	401	401	420	419	420	418	420
Total sirens-tests	402	402	402	420	420	420	420	420
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**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/01	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03
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/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

Protected Area Security Performance Index

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	65.40	8.60	8.70	82.10	7.90	65.40	119.10	23.10
CCTV compensatory hours	5.9	31.3	14.8	14.3	0	36.8	0.3	0
IDS normalization factor	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	**0.013**	**0.011**	**0.008**	**0.012**	**0.009**	**0.012**	**0.017**	**0.013**

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

Waterford 3

2Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	1942.9	1806.0	2208.0	2209.0	2115.1	2183.0
Indicator value	**0.9**	**0.8**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	**1.0**	**1.0**	**1.0**	**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	1.0	0
Critical hours	2208.0	2209.0	1942.9	1806.0	2208.0	2209.0	2115.1	2183.0
Indicator value	**1.8**	**1.6**	**0.8**	**0**	**0**	**0**	**0.8**	**0.8**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	3Q/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
Train 1								
Planned unavailable hours	0	5.68	9.95	0	0	0	0	0
Unplanned unavailable hours	20.73	47.48	0	0	0	10.50	0	21.88
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	0	1.92	12.77	0	0	30.53	25.08	0
Unplanned unavailable hours	0	0	0	0	8.02	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	2208.00	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.4%**	**0.4%**	**0.5%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments:

2Q/03: A correction to previously submitted data is being submitted this quarter that adds unavailable hours for the 3rd quarter 2001 (4.4 hours) and 4th quarter 2002 (10.5 hours). The corrections do not change the color of this indicator.

4Q/02: A correction to this quarter's data is being made that adds 10.50 hours of unplanned unavailability. This correction was submitted with the 2nd quarter 2003 submittal. This change has no affect on the indicator color.

3Q/01: A correction to this quarter's data is being made that adds 4.40 hours of unplanned unavailability. This

correction was submitted with the 2nd quarter 2003 submittal. This change has no affect on the indicator color.

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	22.43	14.38	9.80	0	0	0	0	21.42
Unplanned unavailable hours	4.98	0	0	0	0	10.50	0	21.88
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	0	0	42.24	0	0	30.53	45.46	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	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.5%**	**0.4%**	**0.5%**	**0.5%**	**0.4%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments:

2Q/03: A correction to previously submitted data is being submitted this quarter that adds unavailable hours for the 3rd quarter 2001 (4.4 hours), 1st quarter 2002 (27.82 hours), and 4th quarter 2002 (10.5 hours). The corrections do not change the color of this indicator.

4Q/02: A correction to this quarter's data is being made that adds 10.50 hours of unplanned unavailability. This correction was submitted with the 2nd quarter 2003 submittal. This change has no affect on the indicator color.

1Q/02: A correction to this quarter's data is being made that adds 27.82 hours of planned unavailability. This correction was submitted with the 2nd quarter 2003 submittal. This change has no affect on the indicator color.

3Q/01: A correction to this quarter's data is being made that adds 4.40 hours of unplanned unavailability. This correction was submitted with the 2nd quarter 2003 submittal. This change has no affect on the indicator color.

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	11.00	14.38	9.80	6.22	0	0	11.77	0
Unplanned unavailable hours	4.98	0	0	0	0	10.50	0	21.88
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00

Train 2								
Planned unavailable hours	8.38	0.32	12.77	0	0	30.53	30.40	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	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.2%**	**0.3%**	**0.3%**	**0.3%**

Licensee Comments:

2Q/03: A correction to previously submitted data is being submitted this quarter that adds unavailable hours for the 3rd quarter 2001 (4.4 hours) and 4th quarter 2002 (10.5 hours). The corrections do not change the color of this indicator.

4Q/02: A correction to this quarter's data is being made that adds 10.50 hours of unplanned unavailability. This correction was submitted with the 2nd quarter 2003 submittal. This change has no affect on the indicator color.

3Q/01: A correction to this quarter's data is being made that adds 4.40 hours of unplanned unavailability. This correction was submitted with the 2nd quarter 2003 submittal. This change has no affect on the indicator color.

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	0	14.38	9.80	0	0	0	0	21.42
Unplanned unavailable hours	4.98	0	0	0	0	10.50	0	21.88
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00
Train 2								
Planned unavailable hours	0	18.52	34.25	0	0	30.53	46.38	21.65
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	2208.00	2209.00	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	2.83	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	207.22	345.38	0	0	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	2.93	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	207.22	345.38	0	0	0	0

Indicator value	**0.5%**	**0.6%**	**0.9%**	**0.8%**	**0.5%**	**0.3%**	**0.3%**	**0.4%**

Licensee Comments:

2Q/03: A correction to previously submitted data is being submitted this quarter that adds unavailable hours for the 3rd quarter 2001 (4.4 hours) and 4th quarter 2002 (10.5 hours). The corrections do not change the color of this indicator.

4Q/02: A correction to this quarter's data is being made that adds 10.50 hours of unplanned unavailability. This correction was submitted with the 2nd quarter 2003 submittal. This change has no affect on the indicator color.

3Q/01: A correction to this quarter's data is being made that adds 4.40 hours of unplanned unavailability. This correction was submitted with the 2nd quarter 2003 submittal. This change has no affect on the indicator color.

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	1	2	0	0	0	0
Indicator value	**1**	**1**	**1**	**3**	**3**	**3**	**2**	**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	0.005040	0.005940	0.005670	0.005640	0.005650	0.005870	0.005610	0.005930	0.015200	0.001890	0.002180	0.002270
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**1.5**	**0.2**	**0.2**	**0.2**

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	0.002460	0.002440	0.002570	0.002580	0.002680	0.002780	0.002890	0.002810	0.002970	0.003260	0.003300	0.003350
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**

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	0.028	0.028	0.028	0.051	0.028	0.027	0.033	0.014	0.026	0.030	0.040	0.027
Technical specification limit	10.0	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**	**0.3**	**0.5**	**0.3**	**0.3**	**0.3**	**0.1**	**0.3**	**0.3**	**0.4**	**0.3**

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	0.039	0.028	0.028	0.028	0.040	0.036	0.089	0.033	0.028	0.038	0.028	0.027
Technical specification limit	10.0	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**	**0.3**	**0.4**	**0.4**	**0.9**	**0.3**	**0.3**	**0.4**	**0.3**	**0.3**

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	21.0	43.0	38.0	17.0	31.0	27.0	25.0	32.0
Total opportunities	22.0	46.0	38.0	18.0	34.0	28.0	26.0	32.0
Indicator value	**96.0%**	**95.3%**	**96.2%**	**95.8%**	**96.0%**	**95.9%**	**95.7%**	**95.9%**

Licensee Comments:

2Q/03: During a self assessment, the Waterford 3 Emergency Planning Department identified an error in the number of successful opportunities that were reported in March 2003 (1st Quarter 2003 data). Nine should have been reported instead of ten. This correction is being submitted with the 2nd quarter 2003 submittal and does not change the previous or current color of this indicator.

1Q/03: During a self assessment, the Waterford 3 Emergency Planning Department identified an error in the number of successful opportunities that were reported in March 2003. Nine should have been reported instead of ten. This correction is being submitted with the 2nd quarter 2003 submittal and does not change the previous or current color of this indicator.

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	135.0	130.0	139.0	125.0	127.0	126.0	130.0	133.0
Total Key personnel	136.0	135.0	140.0	127.0	131.0	129.0	130.0	140.0
Indicator value	**99.3%**	**96.3%**	**99.3%**	**98.4%**	**96.9%**	**97.7%**	**100.0%**	**95.0%**

Licensee Comments: none

Alert & Notification System

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	401	401	420	419	420	418	420	419
Total sirens-tests	402	402	420	420	420	420	420	420
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.9%**	**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/01	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03
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/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	8.60	8.70	82.10	7.90	65.40	119.10	23.10	42.60
CCTV compensatory hours	31.3	14.8	14.3	0	36.8	0.3	0	1.4
IDS normalization factor	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	**0.011**	**0.008**	**0.012**	**0.009**	**0.012**	**0.017**	**0.013**	**0.015**

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

Waterford 3

3Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	1942.9	1806.0	2208.0	2209.0	2115.1	2183.0	2208.0
Indicator value	**0.8**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	**1.0**	**1.0**	**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	1.0	0	0
Critical hours	2209.0	1942.9	1806.0	2208.0	2209.0	2115.1	2183.0	2208.0
Indicator value	**1.6**	**0.8**	**0**	**0**	**0**	**0.8**	**0.8**	**0.8**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	5.68	9.95	0	0	0	0	0	4.67
Unplanned unavailable hours	47.48	0	0	0	10.50	0	21.88	16.97
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	1.92	12.77	0	0	30.53	25.08	0	0
Unplanned unavailable hours	0	0	0	8.02	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.4%**	**0.5%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments:

3Q/03: Waterford 3 is taking 322.03 hours of T/2 fault exposure hours on Emergency Diesel Generator A (train 1)."

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	14.38	9.80	0	0	0	0	21.42	8.38
Unplanned unavailable hours	0	0	0	0	10.50	0	21.88	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0	42.24	0	0	30.53	45.46	0	1.83
Unplanned unavailable hours	0	0	0	0	0	0	0	4.65
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.4%**	**0.5%**	**0.5%**	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	14.38	9.80	6.22	0	0	11.77	0	0
Unplanned unavailable hours	0	0	0	0	10.50	0	21.88	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	0.32	12.77	0	0	30.53	30.40	0	12.82
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	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	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	2209.00	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.2%**	**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/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Train 1								
Planned unavailable hours	14.38	9.80	0	0	0	0	21.42	0
Unplanned unavailable hours	0	0	0	0	10.50	0	21.88	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00
Train 2								
Planned unavailable hours	18.52	34.25	0	0	30.53	46.38	21.65	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	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	2.83	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	207.22	345.38	0	0	0	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	2.93	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	207.22	345.38	0	0	0	0	0
Indicator value	**0.6%**	**0.9%**	**0.8%**	**0.5%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

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	0.005640	0.005650	0.005870	0.005610	0.005930	0.015200	0.001890	0.002180	0.002270	0.002460	0.002440	0.002570
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.6**	**0.6**	**0.6**	**0.6**	**0.6**	**1.5**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**

Reactor Coolant System Activity	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**
Maximum activity	0.002580	0.002680	0.002780	0.002890	0.002810	0.002970	0.003260	0.003300	0.003350	0.003420	0.003750	0.003520
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02
Maximum leakage	0.051	0.028	0.027	0.033	0.014	0.026	0.030	0.040	0.027	0.039	0.028	0.028
Technical specification limit	10.0	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**	**0.3**	**0.3**	**0.3**	**0.1**	**0.3**	**0.3**	**0.4**	**0.3**	**0.4**	**0.3**	**0.3**

Reactor Coolant System Leakage	10/02	11/02	12/02	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03
Maximum leakage	0.028	0.040	0.036	0.089	0.033	0.028	0.038	0.028	0.027	0.027	0.028	0.028
Technical specification limit	10.0	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**	**0.9**	**0.3**	**0.3**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
Successful opportunities	43.0	38.0	17.0	31.0	27.0	25.0	32.0	26.0
Total opportunities	46.0	38.0	18.0	34.0	28.0	26.0	32.0	26.0
Indicator value	**95.3%**	**96.2%**	**95.8%**	**96.0%**	**95.9%**	**95.7%**	**95.9%**	**96.4%**

Licensee Comments: none

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	130.0	139.0	125.0	127.0	126.0	130.0	133.0	140.0
Total Key personnel	135.0	140.0	127.0	131.0	129.0	130.0	140.0	142.0
Indicator value	**96.3%**	**99.3%**	**98.4%**	**96.9%**	**97.7%**	**100.0%**	**95.0%**	**98.6%**

Licensee Comments: none

Alert & Notification System

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	401	420	419	420	418	420	419	419
Total sirens-tests	402	420	420	420	420	420	420	420
Indicator value	**99.9%**	**99.9%**	**99.8%**	**99.9%**	**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	4Q/01	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03
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/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	8.70	82.10	7.90	65.40	119.10	23.10	42.60	111.60
CCTV compensatory hours	14.8	14.3	0	36.8	0.3	0	1.4	0.3
IDS normalization factor	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	**0.008**	**0.012**	**0.009**	**0.012**	**0.017**	**0.013**	**0.015**	**0.015**

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

Waterford 3

4Q/2003 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1942.9	1806.0	2208.0	2209.0	2115.1	2183.0	2208.0	1457.1
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/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	**1.0**	**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	1.0	0	0	0
Critical hours	1942.9	1806.0	2208.0	2209.0	2115.1	2183.0	2208.0	1457.1
Indicator value	**0.8**	**0**	**0**	**0**	**0.8**	**0.8**	**0.8**	**0.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	9.95	0	0	0	0	0	4.67	7.62
Unplanned unavailable hours	0	0	0	10.50	0	21.88	16.97	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2076.50
Train 2								
Planned unavailable hours	12.77	0	0	30.53	25.08	0	0	0
Unplanned unavailable hours	0	0	8.02	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2076.50
Indicator value	**0.5%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**	**4Q/03**
Train 1								
Planned unavailable hours	9.80	0	0	0	0	21.42	8.38	7.62
Unplanned unavailable hours	0	0	0	10.50	0	21.88	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00	1524.20
Train 2								
Planned unavailable hours	42.24	0	0	30.53	45.46	0	1.83	0
Unplanned unavailable hours	0	0	0	0	0	0	4.65	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00	1524.20
Indicator value	**0.5%**	**0.5%**	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	9.80	6.22	0	0	11.77	0	0	7.62
Unplanned unavailable hours	0	0	0	10.50	0	21.88	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00	1499.50
Train 2								
Planned unavailable hours	12.77	0	0	30.53	30.40	0	12.82	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	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00	1499.50
Train 3								
Planned unavailable hours	0	0	0	0	0	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	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00	1499.50
Indicator value	**0.3%**	**0.3%**	**0.2%**	**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/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
Train 1								
Planned unavailable hours	9.80	0	0	0	0	21.42	0	7.62
Unplanned unavailable hours	0	0	0	10.50	0	21.88	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00	1499.50
Train 2								
Planned unavailable hours	34.25	0	0	30.53	46.38	21.65	0	7.48
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	1952.78	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00	1499.50
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	2.83	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	207.22	345.38	0	0	0	0	0	577.00
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0

Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	2.93	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	207.22	345.38	0	0	0	0	0	577.00
Indicator value	**0.9%**	**0.8%**	**0.5%**	**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)	**1Q/02**	**2Q/02**	**3Q/02**	**4Q/02**	**1Q/03**	**2Q/03**	**3Q/03**	**4Q/03**
Safety System Functional Failures	1	2	0	0	0	0	0	0
Indicator value	**1**	**3**	**3**	**3**	**2**	**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	0.005610	0.005930	0.015200	0.001890	0.002180	0.002270	0.002460	0.002440	0.002570	0.002580	0.002680	0.002780
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.6**	**0.6**	**1.5**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.3**

Reactor Coolant System Activity	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**
Maximum activity	0.002890	0.002810	0.002970	0.003260	0.003300	0.003350	0.003420	0.003750	0.003520	0.046700	0.002430	0.001880
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**4.7**	**0.2**	**0.2**

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	0.033	0.014	0.026	0.030	0.040	0.027	0.039	0.028	0.028	0.028	0.040	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	**0.3**	**0.1**	**0.3**	**0.3**	**0.4**	**0.3**	**0.4**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**

Reactor Coolant System Leakage	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03
Maximum leakage	0.089	0.033	0.028	0.038	0.028	0.027	0.027	0.028	0.028	0.037	0.464	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	**0.9**	**0.3**	**0.3**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**4.6**	**0.5**

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	38.0	17.0	31.0	27.0	25.0	32.0	26.0	6.0
Total opportunities	38.0	18.0	34.0	28.0	26.0	32.0	26.0	6.0
Indicator value	**96.2%**	**95.8%**	**96.0%**	**95.9%**	**95.7%**	**95.9%**	**96.4%**	**97.1%**

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	139.0	125.0	127.0	126.0	130.0	133.0	140.0	141.0
Total Key personnel	140.0	127.0	131.0	129.0	130.0	140.0	142.0	141.0
Indicator value	**99.3%**	**98.4%**	**96.9%**	**97.7%**	**100.0%**	**95.0%**	**98.6%**	**100.0%**

Licensee Comments: none

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	420	419	420	418	420	419	419	420
Total sirens-tests	420	420	420	420	420	420	420	420
Indicator value	**99.9%**	**99.8%**	**99.9%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/02	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03
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/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	82.10	7.90	65.40	119.10	23.10	42.60	111.60	120.80
CCTV compensatory hours	14.3	0	36.8	0.3	0	1.4	0.3	8.6
IDS normalization factor	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	**0.012**	**0.009**	**0.012**	**0.017**	**0.013**	**0.015**	**0.015**	**0.016**

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

FFD/Personnel Reliability

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

Waterford 3

1Q/2004 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1806.0	2208.0	2209.0	2115.1	2183.0	2208.0	1457.1	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	1.0	0	0	0	1.0
Critical hours	1806.0	2208.0	2209.0	2115.1	2183.0	2208.0	1457.1	2184.0
Indicator value	**0**	**0**	**0**	**0.8**	**0.8**	**0.8**	**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/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0	0	0	0	0	4.67	7.62	0
Unplanned unavailable hours	0	0	10.50	0	21.88	16.97	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2076.50	2184.00
Train 2								
Planned unavailable hours	0	0	30.53	25.08	0	0	0	6.86
Unplanned unavailable hours	0	8.02	0	0	0	0	0	22.82
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	2183.00	2208.00	2076.50	2184.00
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0	0	0	0	21.42	8.38	7.62	0
Unplanned unavailable hours	0	0	10.50	0	21.88	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00	1524.20	2184.00
Train 2								
Planned unavailable hours	0	0	30.53	45.46	0	1.83	0	6.86
Unplanned unavailable hours	0	0	0	0	0	4.65	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00	1524.20	2184.00
Indicator value	**0.5%**	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	6.22	0	0	11.77	0	0	7.62	12.60
Unplanned unavailable hours	0	0	10.50	0	21.88	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00	1499.50	2184.00
Train 2								
Planned unavailable hours	0	0	30.53	30.40	0	12.82	0	21.58
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	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00	1499.50	2184.00
Train 3								
Planned unavailable hours	0	0	0	0	0	3.15	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00	1499.50	2184.00
Indicator value	**0.3%**	**0.2%**	**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/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04
Train 1								
Planned unavailable hours	0	0	0	0	21.42	0	7.62	26.33
Unplanned unavailable hours	0	0	10.50	0	21.88	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00	1499.50	2184.00
Train 2								
Planned unavailable hours	0	0	30.53	46.38	21.65	0	7.48	6.86
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	1838.62	2208.00	2209.00	2160.00	2183.00	2208.00	1499.50	2184.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	345.38	0	0	0	0	0	577.00	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	345.38	0	0	0	0	0	577.00	0
Indicator value	**0.8%**	**0.5%**	**0.3%**	**0.3%**	**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	2	0	0	0	0	0	0	0
Indicator value	**3**	**3**	**3**	**2**	**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	0.001890	0.002180	0.002270	0.002460	0.002440	0.002570	0.002580	0.002680	0.002780	0.002890	0.002810	0.002970
Technical specification limit	1.0	1.0	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**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**

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	0.003260	0.003300	0.003350	0.003420	0.003750	0.003520	0.046700	0.002430	0.001880	0.001920	0.002120	0.002410
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**4.7**	**0.2**	**0.2**	**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	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	0.030	0.040	0.027	0.039	0.028	0.028	0.028	0.040	0.036	0.089	0.033	0.028
Technical specification limit	10.0	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**	**0.3**	**0.4**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.9**	**0.3**	**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	0.038	0.028	0.027	0.027	0.028	0.028	0.037	0.464	0.046	0.026	0.017	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	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**4.6**	**0.5**	**0.3**	**0.2**	**0.2**

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	17.0	31.0	27.0	25.0	32.0	26.0	6.0	24.0
Total opportunities	18.0	34.0	28.0	26.0	32.0	26.0	6.0	26.0
Indicator value	**95.8%**	**96.0%**	**95.9%**	**95.7%**	**95.9%**	**96.4%**	**97.1%**	**95.9%**

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	125.0	127.0	126.0	130.0	133.0	140.0	141.0	140.0
Total Key personnel	127.0	131.0	129.0	130.0	140.0	142.0	141.0	143.0
Indicator value	**98.4%**	**96.9%**	**97.7%**	**100.0%**	**95.0%**	**98.6%**	**100.0%**	**97.9%**

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	419	420	418	420	419	419	420	432
Total sirens-tests	420	420	420	420	420	420	420	432
Indicator value	**99.8%**	**99.9%**	**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	2Q/02	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/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	**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/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

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	7.90	65.40	119.10	23.10	42.60	111.60	120.80	30.70
CCTV compensatory hours	0	36.8	0.3	0	1.4	0.3	8.6	0
IDS normalization factor	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
CCTV normalization factor	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
Index Value	**0.009**	**0.012**	**0.017**	**0.013**	**0.015**	**0.015**	**0.016**	**0.016**

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

Waterford 3

2Q/2004 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	2209.0	2115.1	2183.0	2208.0	1457.1	2184.0	2183.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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

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	1.0	0	0	0	1.0	0
Critical hours	2208.0	2209.0	2115.1	2183.0	2208.0	1457.1	2184.0	2183.0
Indicator value	**0**	**0**	**0.8**	**0.8**	**0.8**	**0.9**	**0.9**	**0.9**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	0	0	0	0	4.67	7.62	0	1.18
Unplanned unavailable hours	0	10.50	0	21.88	16.97	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	2076.50	2184.00	2183.00
Train 2								
Planned unavailable hours	0	30.53	25.08	0	0	0	6.86	0
Unplanned unavailable hours	8.02	0	0	0	0	0	22.82	0.05
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	2160.00	2183.00	2208.00	2076.50	2184.00	2183.00
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	0	0	0	21.42	8.38	7.62	0	2.48
Unplanned unavailable hours	0	10.50	0	21.88	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	1524.20	2184.00	2183.00
Train 2								
Planned unavailable hours	0	30.53	45.46	0	1.83	0	6.86	19.07
Unplanned unavailable hours	0	0	0	0	4.65	0	0	0.05
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	2160.00	2183.00	2208.00	1524.20	2184.00	2183.00
Indicator value	**0.4%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**

Licensee Comments: none

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	0	0	11.77	0	0	7.62	12.60	0
Unplanned unavailable hours	0	10.50	0	21.88	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	1499.50	2184.00	2183.00
Train 2								
Planned unavailable hours	0	30.53	30.40	0	12.82	0	21.58	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0.05
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	2160.00	2183.00	2208.00	1499.50	2184.00	2183.00
Train 3								
Planned unavailable hours	0	0	0	0	3.15	0	0	20.53
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	2208.00	2209.00	2160.00	2183.00	2208.00	1499.50	2184.00	2183.00
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	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04
Train 1								
Planned unavailable hours	0	0	0	21.42	0	7.62	26.33	0
Unplanned unavailable hours	0	10.50	0	21.88	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2209.00	2160.00	2183.00	2208.00	1499.50	2184.00	2183.00
Train 2								
Planned unavailable hours	0	30.53	46.38	21.65	0	7.48	6.86	26.84
Unplanned unavailable hours	0	0	0	0	0	0	0	0.05
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	2160.00	2183.00	2208.00	1499.50	2184.00	2183.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	0	577.00	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	0	577.00	0	0
Indicator value	**0.5%**	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/02**	**8/02**	**9/02**	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**
Maximum activity	0.002460	0.002440	0.002570	0.002580	0.002680	0.002780	0.002890	0.002810	0.002970	0.003260	0.003300	0.003350
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**
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	0.003420	0.003750	0.003520	0.046700	0.002430	0.001880	0.001920	0.002120	0.002410	0.002840	0.003340	0.003600
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.4**	**0.4**	**4.7**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.4**

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	0.039	0.028	0.028	0.028	0.040	0.036	0.089	0.033	0.028	0.038	0.028	0.027
Technical specification limit	10.0	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**	**0.3**	**0.4**	**0.4**	**0.9**	**0.3**	**0.3**	**0.4**	**0.3**	**0.3**
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	0.027	0.028	0.028	0.037	0.464	0.046	0.026	0.017	0.018	0.020	0.021	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	**0.3**	**0.3**	**0.3**	**0.4**	**4.6**	**0.5**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**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	31.0	27.0	25.0	32.0	26.0	6.0	24.0	22.0
Total opportunities	34.0	28.0	26.0	32.0	26.0	6.0	26.0	22.0
Indicator value	**96.0%**	**95.9%**	**95.7%**	**95.9%**	**96.4%**	**97.1%**	**95.9%**	**96.5%**

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	126.0	130.0	133.0	140.0	141.0	140.0	138.0
Total Key personnel	131.0	129.0	130.0	140.0	142.0	141.0	143.0	141.0
Indicator value	**96.9%**	**97.7%**	**100.0%**	**95.0%**	**98.6%**	**100.0%**	**97.9%**	**97.9%**

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	420	418	420	419	419	420	432	430
Total sirens-tests	420	420	420	420	420	420	432	432
Indicator value	**99.9%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**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	3Q/02	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/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	**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/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.

Last Modified: September 8, 2004

Waterford 3

3Q/2004 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2209.0	2115.1	2183.0	2208.0	1457.1	2184.0	2183.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	4Q/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	1.0	0	0	0	1.0	0	0
Critical hours	2209.0	2115.1	2183.0	2208.0	1457.1	2184.0	2183.0	2208.0
Indicator value	**0**	**0.8**	**0.8**	**0.8**	**0.9**	**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	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	0	0	0	4.67	7.62	0	1.18	3.40
Unplanned unavailable hours	10.50	0	21.88	16.97	0	0	0	32.40
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2076.50	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	30.53	25.08	0	0	0	6.86	0	10.08
Unplanned unavailable hours	0	0	0	0	0	22.82	0.05	28.68
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	2076.50	2184.00	2183.00	2208.00
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.5%**	**0.5%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Train 1								
Planned unavailable hours	0	0	21.42	8.38	7.62	0	2.48	51.60
Unplanned unavailable hours	10.50	0	21.88	0	0	0	0	15.82
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	1524.20	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	30.53	45.46	0	1.83	0	6.86	19.07	42.97
Unplanned unavailable hours	0	0	0	4.65	0	0	0.05	38.35
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	1524.20	2184.00	2183.00	2208.00
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.8%**

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	11.77	0	0	7.62	12.60	0	16.35
Unplanned unavailable hours	10.50	0	21.88	0	0	0	0	15.82
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	1499.50	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	30.53	30.40	0	12.82	0	21.58	0	4.50
Unplanned unavailable hours	0	0	0	0	0	0	0.05	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	1499.50	2184.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	0	0	3.15	0	0	20.53	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	2209.00	2160.00	2183.00	2208.00	1499.50	2184.00	2183.00	2208.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**

Licensee Comments: none

Safety System Unavailability, 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	0	21.42	0	7.62	26.33	0	48.46
Unplanned unavailable hours	10.50	0	21.88	0	0	0	0	15.82
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	1499.50	2184.00	2183.00	2208.00
Train 2								
Planned unavailable hours	30.53	46.38	21.65	0	7.48	6.86	26.84	65.27
Unplanned unavailable hours	0	0	0	0	0	0	0.05	37.88
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2209.00	2160.00	2183.00	2208.00	1499.50	2184.00	2183.00	2208.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	577.00	0	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	0	577.00	0	0	0
Indicator value	**0.3%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.6%**

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	0	0
Indicator value	**3**	**2**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**
Maximum activity	0.002580	0.002680	0.002780	0.002890	0.002810	0.002970	0.003260	0.003300	0.003350	0.003420	0.003750	0.003520
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**
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	0.046700	0.002430	0.001880	0.001920	0.002120	0.002410	0.002840	0.003340	0.003600	0.003660	0.003660	0.003930
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**4.7**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/02**	**11/02**	**12/02**	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**
Maximum leakage	0.028	0.040	0.036	0.089	0.033	0.028	0.038	0.028	0.027	0.027	0.028	0.028
Technical specification limit	10.0	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**	**0.9**	**0.3**	**0.3**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**
Reactor Coolant System Leakage	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**
Maximum leakage	0.037	0.464	0.046	0.026	0.017	0.018	0.020	0.021	0.016	0.018	0.020	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	**0.4**	**4.6**	**0.5**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	4Q/02	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04
Successful opportunities	27.0	25.0	32.0	26.0	6.0	24.0	22.0	14.0
Total opportunities	28.0	26.0	32.0	26.0	6.0	26.0	22.0	14.0
Indicator value	**95.9%**	**95.7%**	**95.9%**	**96.4%**	**97.1%**	**95.9%**	**96.5%**	**97.8%**

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	126.0	130.0	133.0	140.0	141.0	140.0	138.0	137.0
Total Key personnel	129.0	130.0	140.0	142.0	141.0	143.0	141.0	139.0
Indicator value	**97.7%**	**100.0%**	**95.0%**	**98.6%**	**100.0%**	**97.9%**	**97.9%**	**98.6%**

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	418	420	419	419	420	432	430	431
Total sirens-tests	420	420	420	420	420	432	432	432
Indicator value	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**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	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	**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/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

Waterford 3

4Q/2004 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2115.1	2183.0	2208.0	1457.1	2184.0	2183.0	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/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	1.0	0	0	0	1.0	0	0	0
Critical hours	2115.1	2183.0	2208.0	1457.1	2184.0	2183.0	2208.0	2209.0
Indicator value	**0.8**	**0.8**	**0.8**	**0.9**	**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	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	0	0	4.67	7.62	0	1.18	3.40	4.00
Unplanned unavailable hours	0	21.88	16.97	0	0	0	32.40	1.27
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2076.50	2184.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	25.08	0	0	0	6.86	0	10.08	16.59
Unplanned unavailable hours	0	0	0	0	22.82	0.05	28.68	17.65
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	2076.50	2184.00	2183.00	2208.00	2209.00
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.5%**	**0.5%**	**0.6%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	1Q/03	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04
Train 1								
Planned unavailable hours	0	21.42	8.38	7.62	0	2.48	51.60	0
Unplanned unavailable hours	0	21.88	0	0	0	0	15.82	1.27
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1524.20	2184.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	45.46	0	1.83	0	6.86	19.07	42.97	22.80
Unplanned unavailable hours	0	0	4.65	0	0	0.05	38.35	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	2160.00	2183.00	2208.00	1524.20	2184.00	2183.00	2208.00	2209.00
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.8%**	**0.8%**

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	11.77	0	0	7.62	12.60	0	16.35	0
Unplanned unavailable hours	0	21.88	0	0	0	0	15.82	1.27
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1499.50	2184.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	30.40	0	12.82	0	21.58	0	4.50	9.57
Unplanned unavailable hours	0	0	0	0	0	0.05	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1499.50	2184.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	3.15	0	0	20.53	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1499.50	2184.00	2183.00	2208.00	2209.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**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	0	21.42	0	7.62	26.33	0	48.46	0
Unplanned unavailable hours	0	21.88	0	0	0	0	15.82	1.27
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1499.50	2184.00	2183.00	2208.00	2209.00
Train 2								
Planned unavailable hours	46.38	21.65	0	7.48	6.86	26.84	56.55	37.14
Unplanned unavailable hours	0	0	0	0	0	0.05	37.88	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2160.00	2183.00	2208.00	1499.50	2184.00	2183.00	2208.00	2209.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	577.00	0	0	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	0	577.00	0	0	0	0
Indicator value	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.6%**	**0.6%**

Licensee Comments:

3Q/04: A change report was submitted with the 4th Quarter 2004 data package that revised RHR train number 2 unavailability for August 2004 from 60.77 hours to 52.05 hours due to re-evaluation of equipment status during a planned outage. The revision of this data does not change the previously determined performance indicator color.

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/03**	**2/03**	**3/03**	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**
Maximum activity	0.002890	0.002810	0.002970	0.003260	0.003300	0.003350	0.003420	0.003750	0.003520	0.002950	0.002430	0.001880
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**	**0.2**	**0.2**
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	0.001920	0.002120	0.002410	0.002840	0.003340	0.003600	0.003660	0.003660	0.003930	0.004410	0.004250	0.004330
Technical specification limit	1.0	1.0	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**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**

Licensee Comments:

12/03: A change report was submitted with the 4th Quarter 2004 data package that revised October 2003 Reactor Coolant System Specific Activity from 0.04670 uCI/gm to 0.00295 uCI/gm. A re-assessment of the data determined that the previous value was obtained shortly after a planned plant shutdown, while the measurement is only applicable if it is taken at steady state plant conditions. The revision of this data does not change the previously determined performance indicator color.

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	0.089	0.033	0.028	0.038	0.028	0.027	0.027	0.028	0.028	0.037	0.464	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	**0.9**	**0.3**	**0.3**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**4.6**	**0.5**
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	0.026	0.017	0.018	0.020	0.021	0.016	0.018	0.020	0.022	0.072	0.052	0.077
Technical specification limit	10.0	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**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.7**	**0.5**	**0.8**

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	25.0	32.0	25.0	6.0	24.0	22.0	14.0	10.0
Total opportunities	26.0	32.0	26.0	6.0	26.0	22.0	14.0	10.0
Indicator value	**95.7%**	**95.9%**	**96.0%**	**96.6%**	**95.4%**	**96.0%**	**97.2%**	**97.5%**

Licensee Comments:

3Q/03: A change report was submitted with the 4th Quarter 2004 data package that revised the number of successful Drill and Exercise Performances for September 2003 to 25 from the originally reported value of 26. The data is revised based on reanalysis of a drill exercise and does not change the previously determined performance indicator color.

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	130.0	133.0	140.0	141.0	140.0	138.0	137.0	128.0
Total Key personnel	130.0	140.0	142.0	141.0	143.0	141.0	139.0	138.0
Indicator value	**100.0%**	**95.0%**	**98.6%**	**100.0%**	**97.9%**	**97.9%**	**98.6%**	**92.8%**

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	420	419	419	420	432	430	431	432
Total sirens-tests	420	420	420	420	432	432	432	432
Indicator value	**99.8%**	**99.8%**	**99.8%**	**99.9%**	**99.9%**	**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/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	**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/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

Waterford 3

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	0	0	0	0
Critical hours	2183.0	2208.0	1457.1	2184.0	2183.0	2208.0	2209.0	2160.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	1.0	0	0	0	0
Critical hours	2183.0	2208.0	1457.1	2184.0	2183.0	2208.0	2209.0	2160.0
Indicator value	**0.8**	**0.8**	**0.9**	**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	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	0	4.67	7.62	0	1.18	3.40	4.00	6.73
Unplanned unavailable hours	21.88	16.97	0	0	0	32.40	1.27	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	2183.00	2208.00	2076.50	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	0	0	0	6.86	0	10.08	16.59	0
Unplanned unavailable hours	0	0	0	22.82	0.05	28.68	17.65	1.62
Fault exposure hours	0	0	0	0	0	0	0	22.23
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2076.50	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.5%**	**0.5%**	**0.6%**	**0.6%**	**0.6%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

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

Notes

Safety System Unavailability, High Pressure Injection System (HPSI)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	21.42	8.38	7.62	0	2.48	51.60	0	3.25
Unplanned unavailable hours	21.88	0	0	0	0	15.82	1.27	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	2183.00	2208.00	1524.20	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	0	1.83	0	6.86	19.07	42.97	22.80	0
Unplanned unavailable hours	0	4.65	0	0	0.05	38.35	0	1.62
Fault exposure hours	0	0	0	0	0	0	0	22.23
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1524.20	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.8%**	**0.8%**	**0.8%**

Licensee Comments:

1Q/05: Waterford 3 is finalizing an evaluation for treating unavailability for the High Pressure Safety Injection System.

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	2Q/03	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05
Train 1								
Planned unavailable hours	0	0	7.62	12.60	0	16.35	0	3.25
Unplanned unavailable hours	21.88	0	0	0	0	15.82	1.27	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	2183.00	2208.00	1499.50	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	0	12.82	0	21.58	0	4.50	9.57	12.35
Unplanned unavailable hours	0	0	0	0	0.05	0	0	1.62
Fault exposure hours	0	0	0	0	0	0	0	22.23
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1499.50	2184.00	2183.00	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	0	3.15	0	0	20.53	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1499.50	2184.00	2183.00	2208.00	2209.00	2160.00
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.3%**	**0.4%**

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	21.42	0	7.62	26.33	0	48.46	0	3.25
Unplanned unavailable hours	21.88	0	0	0	0	15.82	1.27	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	2183.00	2208.00	1499.50	2184.00	2183.00	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	21.65	0	7.48	6.86	26.84	56.55	37.14	15.83
Unplanned unavailable hours	0	0	0	0	0.05	37.88	0	1.62
Fault exposure hours	0	0	0	0	0	0	0	22.23
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	1499.50	2184.00	2183.00	2208.00	2209.00	2160.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	577.00	0	0	0	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	0	577.00	0	0	0	0	0
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.6%**	**0.6%**	**0.5%**

Licensee Comments:

1Q/05: Waterford 3 is finalizing an evaluation for treating unavailability for the Residual Heat Removal System.

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/03**	**5/03**	**6/03**	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**
Maximum activity	0.003260	0.003300	0.003350	0.003420	0.003750	0.003520	0.002950	0.002430	0.001880	0.001920	0.002120	0.002410
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

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	0.002840	0.003340	0.003600	0.003660	0.003660	0.003930	0.004410	0.004250	0.004330	0.004330	0.004810	0.004490
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**	**0.4**

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	0.038	0.028	0.027	0.027	0.028	0.028	0.037	0.464	0.046	0.026	0.017	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	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.4**	**4.6**	**0.5**	**0.3**	**0.2**	**0.2**
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	0.020	0.021	0.016	0.018	0.020	0.022	0.072	0.052	0.077	0.043	0.042	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	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.7**	**0.5**	**0.8**	**0.4**	**0.4**	**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	32.0	25.0	6.0	24.0	22.0	14.0	10.0	23.0
Total opportunities	32.0	26.0	6.0	26.0	22.0	14.0	10.0	24.0
Indicator value	**95.9%**	**96.0%**	**96.6%**	**95.4%**	**96.0%**	**97.2%**	**97.5%**	**97.5%**

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	133.0	140.0	141.0	140.0	138.0	137.0	128.0	134.0
Total Key personnel	140.0	142.0	141.0	143.0	141.0	139.0	138.0	134.0
Indicator value	**95.0%**	**98.6%**	**100.0%**	**97.9%**	**97.9%**	**98.6%**	**92.8%**	**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	419	419	420	432	430	431	432	432
Total sirens-tests	420	420	420	432	432	432	432	432
Indicator value	**99.8%**	**99.8%**	**99.9%**	**99.9%**	**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/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	**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/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

Waterford 3

2Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	1457.1	2184.0	2183.0	2208.0	2209.0	2160.0	885.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	1.0	0	0	0	0	0
Critical hours	2208.0	1457.1	2184.0	2183.0	2208.0	2209.0	2160.0	885.0
Indicator value	**0.8**	**0.9**	**0.9**	**0.9**	**0.9**	**0.8**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	4.67	7.62	0	1.18	3.40	4.00	6.73	10.40
Unplanned unavailable hours	16.97	0	0	0	32.40	1.27	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2076.50	2184.00	2183.00	2208.00	2209.00	2160.00	1999.87
Train 2								
Planned unavailable hours	0	0	6.86	0	10.08	16.59	0	0
Unplanned unavailable hours	0	0	22.82	0.05	28.68	17.65	1.62	7.20
Fault exposure hours	0	0	0	0	0	0	22.23	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	2076.50	2184.00	2183.00	2208.00	2209.00	2160.00	1999.87
Indicator value	**0.4%**	**0.4%**	**0.5%**	**0.5%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**

Licensee Comments:

2Q/05: Fault exposure of 140.38 hours is being reported as T/2 for train 2 of the Emergency AC Power System. Emergency Diesel Generator B was discovered inoperable with an indeterminate failure date. T/2 is calculated based on time between the last sucessful surveillance and discovery date.

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	8.38	7.62	0	2.48	51.60	0	3.25	0.62
Unplanned unavailable hours	0	0	0	0	15.82	1.27	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1524.20	2184.00	2183.00	2208.00	2209.00	2160.00	938.52
Train 2								
Planned unavailable hours	1.83	0	6.86	19.07	42.97	22.80	0	0
Unplanned unavailable hours	4.65	0	0	0.05	38.35	0	1.62	5.78
Fault exposure hours	0	0	0	0	0	0	22.23	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1524.20	2184.00	2183.00	2208.00	2209.00	2160.00	938.52
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.5%**	**0.8%**	**0.8%**	**0.8%**	**0.8%**

Licensee Comments:

2Q/05: Waterford 3 is finalizing an evaluation for treating unavailability for the High Pressure Injection System.

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	3Q/03	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05
Train 1								
Planned unavailable hours	0	7.62	12.60	0	16.35	0	3.25	0.62
Unplanned unavailable hours	0	0	0	0	15.82	1.27	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1499.50	2184.00	2183.00	2208.00	2209.00	2160.00	938.52
Train 2								
Planned unavailable hours	12.82	0	21.58	0	4.50	9.57	12.35	0
Unplanned unavailable hours	0	0	0	0.05	0	0	1.62	5.78
Fault exposure hours	0	0	0	0	0	0	22.23	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1499.50	2184.00	2183.00	2208.00	2209.00	2160.00	938.52
Train 3								
Planned unavailable hours	3.15	0	0	20.53	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1499.50	2184.00	2183.00	2208.00	2209.00	2160.00	938.52
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.3%**	**0.4%**	**0.4%**

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	0	7.62	26.33	0	48.46	0	3.25	13.15
Unplanned unavailable hours	0	0	0	0	15.82	1.27	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1499.50	2184.00	2183.00	2208.00	2209.00	2160.00	938.52
Train 2								
Planned unavailable hours	0	7.48	6.86	26.84	56.55	37.14	15.83	0
Unplanned unavailable hours	0	0	0	0.05	37.88	0	1.62	5.78
Fault exposure hours	0	0	0	0	0	0	22.23	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2208.00	1499.50	2184.00	2183.00	2208.00	2209.00	2160.00	938.52
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	577.00	0	0	0	0	0	1061.35
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	6.37
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	0	577.00	0	0	0	0	0	1061.35
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.4%**	**0.6%**	**0.6%**	**0.5%**	**0.6%**

Licensee Comments:

2Q/05: Waterford 3 is finalizing an evaluation for treating unavailability for the Residual Heat Removal System.

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**7/03**	**8/03**	**9/03**	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**
Maximum activity	0.003420	0.003750	0.003520	0.002950	0.002430	0.001880	0.001920	0.002120	0.002410	0.002840	0.003340	0.003600
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.4**	**0.4**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.4**

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	0.003660	0.003660	0.003930	0.004410	0.004250	0.004330	0.004330	0.004810	0.004490	0.004510	N/A	0.000878
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**	**0.4**	**0.5**	**N/A**	**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	0.027	0.028	0.028	0.037	0.464	0.046	0.026	0.017	0.018	0.020	0.021	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	**0.3**	**0.3**	**0.3**	**0.4**	**4.6**	**0.5**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**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	0.018	0.020	0.022	0.072	0.052	0.077	0.043	0.042	0.042	0.032	0.440	0.210
Technical specification limit	10.0	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**	**0.7**	**0.5**	**0.8**	**0.4**	**0.4**	**0.4**	**0.3**	**4.4**	**2.1**

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	25.0	6.0	24.0	22.0	14.0	10.0	23.0	4.0
Total opportunities	26.0	6.0	26.0	22.0	14.0	10.0	24.0	4.0
Indicator value	**96.0%**	**96.6%**	**95.4%**	**96.0%**	**97.2%**	**97.5%**	**97.5%**	**97.0%**

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	140.0	141.0	140.0	138.0	137.0	128.0	134.0	133.0
Total Key personnel	142.0	141.0	143.0	141.0	139.0	138.0	134.0	134.0
Indicator value	**98.6%**	**100.0%**	**97.9%**	**97.9%**	**98.6%**	**92.8%**	**100.0%**	**99.3%**

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	419	420	432	430	431	432	432	432
Total sirens-tests	420	420	432	432	432	432	432	432
Indicator value	**99.8%**	**99.9%**	**99.9%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

Waterford 3

3Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1457.1	2184.0	2183.0	2208.0	2209.0	2160.0	885.0	1831.3
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	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	1.0	0	0	0	0	0	0
Critical hours	1457.1	2184.0	2183.0	2208.0	2209.0	2160.0	885.0	1831.3
Indicator value	**0.9**	**0.9**	**0.9**	**0.9**	**0.8**	**0**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	7.62	0	1.18	3.40	4.00	6.73	10.40	4.73
Unplanned unavailable hours	0	0	0	32.40	1.27	0	0	9.67
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2076.50	2184.00	2183.00	2208.00	2209.00	2160.00	1999.87	2208.00
Train 2								
Planned unavailable hours	0	6.86	0	10.08	16.59	0	0	4.42
Unplanned unavailable hours	0	22.82	0.05	28.68	17.65	1.62	7.20	28.60
Fault exposure hours	0	0	0	0	0	22.23	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2076.50	2184.00	2183.00	2208.00	2209.00	2160.00	1999.87	2208.00
Indicator value	**0.4%**	**0.5%**	**0.5%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.7%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

The NRC has modified the NRC web page to show this performance indicator as discrepant pending NRC inspection of the issue. The NRC has changed the color of the PI on the web page to Gray, indicating that the PI is under review by the NRC. The NRC will perform Inspection Procedure 71150, "Discrepant or Unreported Performance Indicator Data." If feasible, the NRC will independently collect the PI data and then display the updated results on the NRC web page and use these results in the assessment process. Once the root cause(s) of the discrepant PI data have been identified and corrected, and the NRC has verified that the PI data can be collected and reported accurately, oversight of the PI reporting will return to normal inspection per Inspection Procedure 71151, "Performance Indicator Verification."

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	7.62	0	2.48	51.60	0	3.25	0.62	4.32
Unplanned unavailable hours	0	0	0	15.82	1.27	0	0	9.67
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1524.20	2184.00	2183.00	2208.00	2209.00	2160.00	938.52	1852.39
Train 2								
Planned unavailable hours	0	6.86	19.07	42.97	22.80	0	0	4.55
Unplanned unavailable hours	0	0	0.05	38.35	0	1.62	5.78	28.60
Fault exposure hours	0	0	0	0	0	22.23	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1524.20	2184.00	2183.00	2208.00	2209.00	2160.00	938.52	1852.39
Indicator value	**0.5%**	**0.5%**	**0.5%**	**0.8%**	**0.8%**	**0.8%**	**0.8%**	**0.9%**

Licensee Comments:

3Q/05: Waterford 3 is finalizing an evaluation for treating unavailability for the High Pressure Injection System.

Safety System Unavailability, Heat Removal System (AFW)

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

Notes

Safety System Unavailability, Heat Removal System (AFW)	4Q/03	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05
Train 1								
Planned unavailable hours	7.62	12.60	0	16.35	0	3.25	0.62	0
Unplanned unavailable hours	0	0	0	15.82	1.27	0	0	9.67
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1499.50	2184.00	2183.00	2208.00	2209.00	2160.00	938.52	1852.39
Train 2								
Planned unavailable hours	0	21.58	0	4.50	9.57	12.35	0	0.62
Unplanned unavailable hours	0	0	0.05	0	0	1.62	5.78	28.60
Fault exposure hours	0	0	0	0	0	22.23	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1499.50	2184.00	2183.00	2208.00	2209.00	2160.00	938.52	1852.39
Train 3								
Planned unavailable hours	0	0	20.53	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1499.50	2184.00	2183.00	2208.00	2209.00	2160.00	938.52	1852.39
Indicator value	**0.3%**	**0.3%**	**0.3%**	**0.4%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**

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	7.62	26.33	0	48.46	0	3.25	13.15	6.33
Unplanned unavailable hours	0	0	0	15.82	1.27	0	0	9.67
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1499.50	2184.00	2183.00	2208.00	2209.00	2160.00	938.52	1852.39
Train 2								
Planned unavailable hours	7.48	6.86	26.84	56.55	37.14	15.83	0	19.87
Unplanned unavailable hours	0	0	0.05	37.88	0	1.62	5.78	28.60
Fault exposure hours	0	0	0	0	0	22.23	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	1499.50	2184.00	2183.00	2208.00	2209.00	2160.00	938.52	1852.39
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0.23
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	577.00	0	0	0	0	0	1061.35	355.61
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	6.37	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	577.00	0	0	0	0	0	1061.35	355.61
Indicator value	**0.4%**	**0.4%**	**0.4%**	**0.6%**	**0.6%**	**0.5%**	**0.6%**	**0.7%**

Licensee Comments:

3Q/05: Waterford 3 is finalizing an evaluation for treating unavailability for the Residual Heat Removal System.

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/03**	**11/03**	**12/03**	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**
Maximum activity	0.002950	0.002430	0.001880	0.001920	0.002120	0.002410	0.002840	0.003340	0.003600	0.003660	0.003660	0.003930
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**

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	0.004410	0.004250	0.004330	0.004330	0.004810	0.004490	0.004510	N/A	0.000878	0.000988	0.001120	0.001530
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**	**0.4**	**0.5**	**N/A**	**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	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	7/04	8/04	9/04
Maximum leakage	0.037	0.464	0.046	0.026	0.017	0.018	0.020	0.021	0.016	0.018	0.020	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	**0.4**	**4.6**	**0.5**	**0.3**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**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	0.072	0.052	0.077	0.043	0.042	0.042	0.032	0.440	0.210	0.072	0.289	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	**0.7**	**0.5**	**0.8**	**0.4**	**0.4**	**0.4**	**0.3**	**4.4**	**2.1**	**0.7**	**2.9**	**1.9**

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	6.0	24.0	22.0	14.0	10.0	23.0	4.0	16.0
Total opportunities	6.0	26.0	22.0	14.0	10.0	24.0	4.0	16.0
Indicator value	**96.6%**	**95.4%**	**96.0%**	**97.2%**	**97.5%**	**97.5%**	**97.0%**	**97.5%**

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	141.0	140.0	138.0	137.0	128.0	134.0	133.0	131.0
Total Key personnel	141.0	143.0	141.0	139.0	138.0	134.0	134.0	134.0
Indicator value	**100.0%**	**97.9%**	**97.9%**	**98.6%**	**92.8%**	**100.0%**	**99.3%**	**97.8%**

Licensee Comments: none

Alert & Notification System

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	420	432	430	431	432	432	432	359
Total sirens-tests	420	432	432	432	432	432	432	360
Indicator value	**99.9%**	**99.9%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**99.9%**	**99.9%**

Licensee Comments:

3Q/05: There are 72 sirens in the system, and each are tested twice monthly by conducting a silent test and an audible test. The audible test scheduled for September was not conducted at the request of local government officials due to Hurricane Katrina.

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

Waterford 3

4Q/2005 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	2184.0	2183.0	2208.0	2209.0	2160.0	885.0	1831.3	2151.6
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**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	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Scrams	0	0	0	0	0	0	0	1.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Unplanned power changes	1.0	0	0	0	0	0	0	0
Critical hours	2184.0	2183.0	2208.0	2209.0	2160.0	885.0	1831.3	2151.6
Indicator value	**0.9**	**0.9**	**0.9**	**0.8**	**0**	**0**	**0**	**0**

Licensee Comments: none

Safety System Unavailability, Emergency AC Power

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

Notes

Safety System Unavailability, Emergency AC Power	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	0	1.18	3.40	4.00	6.73	10.40	4.73	11.88
Unplanned unavailable hours	0	0	32.40	1.27	0	0	9.67	0
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	2160.00	1999.87	2208.00	2209.00
Train 2								
Planned unavailable hours	6.86	0	10.08	16.59	0	0	4.42	44.96
Unplanned unavailable hours	22.82	0.05	28.68	17.65	1.62	7.20	28.60	0
Fault exposure hours	0	0	0	0	22.23	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	1999.87	2208.00	2209.00
Indicator value	**0.5%**	**0.5%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**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)	1Q/04	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05
Train 1								
Planned unavailable hours	0	2.48	51.60	0	3.25	0.62	4.32	11.88
Unplanned unavailable hours	0	0	15.82	1.27	0	0	9.67	0
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	2160.00	938.52	1852.39	2209.00
Train 2								
Planned unavailable hours	6.86	19.07	42.97	22.80	0	0	4.55	71.39
Unplanned unavailable hours	0	0.05	38.35	0	1.62	5.78	28.60	0
Fault exposure hours	0	0	0	0	22.23	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	938.52	1852.39	2209.00
Indicator value	**0.5%**	**0.5%**	**0.8%**	**0.8%**	**0.8%**	**0.8%**	**0.9%**	**1.0%**

Licensee Comments:

4Q/05: The NRC has indicated that this PI is under review and an inspection will be performed per Inspection Procedure 71150, "Discrepant or Unreported Performance Indicator Data."

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	12.60	0	16.35	0	3.25	0.62	0	11.88
Unplanned unavailable hours	0	0	15.82	1.27	0	0	9.67	0
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	2160.00	938.52	1852.39	2209.00
Train 2								
Planned unavailable hours	21.58	0	4.50	9.57	12.35	0	0.62	38.64
Unplanned unavailable hours	0	0.05	0	0	1.62	5.78	28.60	0
Fault exposure hours	0	0	0	0	22.23	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	938.52	1852.39	2209.00
Train 3								
Planned unavailable hours	0	20.53	0	0	0	0	0	3.33
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	938.52	1852.39	2209.00
Indicator value	**0.3%**	**0.3%**	**0.4%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.5%**

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	26.33	0	48.46	0	3.25	13.15	6.33	30.24
Unplanned unavailable hours	0	0	15.82	1.27	0	0	9.67	0
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	2160.00	938.52	1852.39	2209.00
Train 2								
Planned unavailable hours	6.86	26.84	56.55	37.14	15.83	0	19.87	51.02
Unplanned unavailable hours	0	0.05	37.88	0	1.62	5.78	28.60	0
Fault exposure hours	0	0	0	0	22.23	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2184.00	2183.00	2208.00	2209.00	2160.00	938.52	1852.39	2209.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0	0.23	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	0	0	0	0	0	1061.35	355.61	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	6.37	0	0
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	0	0	0	0	1061.35	355.61	0
Indicator value	**0.4%**	**0.4%**	**0.6%**	**0.6%**	**0.5%**	**0.6%**	**0.7%**	**0.7%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**
Maximum activity	0.001920	0.002120	0.002410	0.002840	0.003340	0.003600	0.003660	0.003660	0.003930	0.004410	0.004250	0.004330
Technical specification limit	1.0	1.0	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**	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**

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	0.004330	0.004810	0.004490	0.004510	N/A	0.000878	0.000988	0.001120	0.001530	0.001130	0.001870	0.001290
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.5**	**0.4**	**0.5**	**N/A**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.2**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/04**	**2/04**	**3/04**	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**
Maximum leakage	0.026	0.017	0.018	0.020	0.021	0.016	0.018	0.020	0.022	0.072	0.052	0.077
Technical specification limit	10.0	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**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.7**	**0.5**	**0.8**
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	0.043	0.042	0.042	0.032	0.440	0.210	0.072	0.289	0.185	0.157	0.147	0.138
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.4**	**0.4**	**0.4**	**0.3**	**4.4**	**2.1**	**0.7**	**2.9**	**1.9**	**1.6**	**1.5**	**1.4**

Licensee Comments: none

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	24.0	22.0	14.0	10.0	23.0	4.0	15.0	22.0
Total opportunities	26.0	22.0	14.0	10.0	24.0	4.0	16.0	23.0
Indicator value	**95.4%**	**96.0%**	**97.2%**	**97.5%**	**97.5%**	**97.0%**	**96.7%**	**96.4%**

Licensee Comments:

4Q/05: The number of successful drill, exercise, and event opportunities for November 2005 has been reduced from 12 to 11. A communication form to offsite agencies contained both correct and incorrect information for wind speed during Hurricane Katrina. This change does not affect the color of the performance indicator.

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	140.0	138.0	137.0	128.0	134.0	133.0	131.0	130.0
Total Key personnel	143.0	141.0	139.0	138.0	134.0	134.0	134.0	130.0
Indicator value	**97.9%**	**97.9%**	**98.6%**	**92.8%**	**100.0%**	**99.3%**	**97.8%**	**100.0%**

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	432	430	431	432	432	432	359	431
Total sirens-tests	432	432	432	432	432	432	360	432
Indicator value	**99.9%**	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**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/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: February 17, 2006

Waterford 3

1Q/2006 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Unplanned scrams	0	0	0	0	0	0	1.0	0
Critical hours	2183.0	2208.0	2209.0	2160.0	885.0	1831.3	2151.6	2160.0
Indicator value	**0**	**0**	**0**	**0**	**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/04	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06
Scrams	0	0	0	0	0	0	1.0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**1.0**	**1.0**

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	2183.0	2208.0	2209.0	2160.0	885.0	1831.3	2151.6	2160.0
Indicator value	**0.9**	**0.9**	**0.8**	**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	1.18	3.40	4.00	6.73	10.40	4.73	11.88	29.15
Unplanned unavailable hours	0	32.40	1.27	0	0	9.67	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1999.87	2208.00	2209.00	2160.00
Train 2								
Planned unavailable hours	0	10.08	16.59	0	0	4.42	44.96	13.88
Unplanned unavailable hours	0.05	28.68	17.65	1.62	7.20	28.60	0	1.45
Fault exposure hours	0	0	0	22.23	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	1999.87	2208.00	2209.00	2160.00
Indicator value	**0.5%**	**0.6%**	**0.6%**	**0.6%**	**0.6%**	**0.7%**	**0.7%**	**0.8%**

Licensee Comments: none

Safety System Unavailability, High Pressure Injection System (HPSI)

The NRC has modified the NRC web page to show this performance indicator as discrepant pending NRC inspection of the issue. The NRC has changed the color of the PI on the web page to Gray, indicating that the PI is under review by the NRC. The NRC will perform Inspection Procedure 71150, "Discrepant or Unreported Performance Indicator Data." If feasible, the NRC will independently collect the PI data and then display the updated results on the NRC web page and use these results in the assessment process. Once the root cause(s) of the discrepant PI data have been identified and corrected, and the NRC has verified that the PI data can be collected and reported accurately, oversight of the PI reporting will return to normal inspection per Inspection Procedure 71151, "Performance Indicator Verification."

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	2.48	51.60	0	3.25	0.62	4.32	11.88	39.11
Unplanned unavailable hours	0	15.82	1.27	0	0	9.67	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	938.52	1852.39	2209.00	2160.00
Train 2								
Planned unavailable hours	19.07	42.97	22.80	0	0	4.55	71.39	37.83
Unplanned unavailable hours	0.05	38.35	0	1.62	5.78	28.60	0	1.45
Fault exposure hours	0	0	0	22.23	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	938.52	1852.39	2209.00	2160.00
Indicator value	**0.5%**	**0.8%**	**0.8%**	**0.8%**	**0.8%**	**0.9%**	**1.0%**	**1.1%**

Licensee Comments:

1Q/06: The NRC has indicated that this PI is under review and an NRC inspection has been initiated using Inspection Procedure 71150, "Discrepant or Unreported Performance Indicator Data."

4Q/05: The NRC has indicated that this PI is under review and an inspection will be performed per Inspection Procedure 71150, "Discrepant or Unreported Performance Indicator Data."

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	0	16.35	0	3.25	0.62	0	11.88	37.10
Unplanned unavailable hours	0	15.82	1.27	0	0	9.67	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	938.52	1852.39	2209.00	2160.00
Train 2								
Planned unavailable hours	0	4.50	9.57	12.35	0	0.62	38.64	0
Unplanned unavailable hours	0.05	0	0	1.62	5.78	28.60	0	1.45
Fault exposure hours	0	0	0	22.23	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	938.52	1852.39	2209.00	2160.00
Train 3								
Planned unavailable hours	20.53	0	0	0	0	0	3.33	0
Unplanned unavailable hours	0	0	0	0	0	0	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	938.52	1852.39	2209.00	2160.00
Indicator value	**0.3%**	**0.4%**	**0.3%**	**0.4%**	**0.4%**	**0.4%**	**0.5%**	**0.5%**

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	0	48.46	0	3.25	13.15	6.33	30.24	69.18
Unplanned unavailable hours	0	15.82	1.27	0	0	9.67	0	0
Fault exposure hours	0	0	0	0	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	938.52	1852.39	2209.00	2160.00
Train 2								
Planned unavailable hours	26.84	56.55	37.14	15.83	0	19.87	51.02	36.70
Unplanned unavailable hours	0.05	37.88	0	1.62	5.78	28.60	0	1.45
Fault exposure hours	0	0	0	22.23	0	0	0	0
Effective Reset hours	0	0	0	0	0	0	0	0
Required hours	2183.00	2208.00	2209.00	2160.00	938.52	1852.39	2209.00	2160.00
Train 3								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	0	0.23	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	0	0	0	1061.35	355.61	0	0
Train 4								
Planned unavailable hours	0	0	0	0	0	0	0	0
Unplanned unavailable hours	0	0	0	0	6.37	0	0	0
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	0	0	0	1061.35	355.61	0	0
Indicator value	**0.4%**	**0.6%**	**0.6%**	**0.5%**	**0.6%**	**0.7%**	**0.7%**	**0.8%**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**4/04**	**5/04**	**6/04**	**7/04**	**8/04**	**9/04**	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**
Maximum activity	0.002840	0.003340	0.003600	0.003660	0.003660	0.003930	0.004410	0.004250	0.004330	0.004330	0.004810	0.004490
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.3**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**	**0.4**

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	0.004510	N/A	0.000878	0.000988	0.001120	0.001530	0.001130	0.001870	0.001290	0.001850	0.001800	0.001680
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**N/A**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.2**	**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	**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	0.020	0.021	0.016	0.018	0.020	0.022	0.072	0.052	0.077	0.043	0.042	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	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.7**	**0.5**	**0.8**	**0.4**	**0.4**	**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	0.032	0.440	0.210	0.072	0.289	0.185	0.157	0.147	0.138	0.132	0.132	0.136
Technical specification limit	10.0	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**	**4.4**	**2.1**	**0.7**	**2.9**	**1.9**	**1.6**	**1.5**	**1.4**	**1.3**	**1.3**	**1.4**

Licensee Comments: none

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	22.0	14.0	10.0	23.0	4.0	15.0	22.0	6.0
Total opportunities	22.0	14.0	10.0	24.0	4.0	16.0	23.0	6.0
Indicator value	**96.0%**	**97.2%**	**97.5%**	**97.5%**	**97.0%**	**96.7%**	**96.4%**	**97.5%**

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	138.0	137.0	128.0	134.0	133.0	131.0	132.0	123.0
Total Key personnel	141.0	139.0	138.0	134.0	136.0	140.0	136.0	132.0
Indicator value	**97.9%**	**98.6%**	**92.8%**	**100.0%**	**97.8%**	**93.6%**	**97.1%**	**93.2%**

Licensee Comments:

1Q/06: A change file is being submitted with the 1st quarter 2006 data submittal to revise this PI's information for the 2nd, 3rd, and 4th quarters of 2005. It was determined that non-licensed operators had not been counted when they should have been. They became key ERO members upon completion of their initial watch stander's qualification card which was not captured during data collection. This revision does not result in a PI color change and remains green.

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	430	431	432	432	432	359	431	432
Total sirens-tests	432	432	432	432	432	360	432	432
Indicator value	**99.8%**	**99.8%**	**99.8%**	**99.8%**	**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/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

Waterford 3

2Q/2006 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2208.0	2209.0	2160.0	885.0	1831.3	2151.6	2160.0	2183.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**1.0**	**1.0**	**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	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Scrams	0	0	0	0	0	1.0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**1.0**	**1.0**	**1.0**

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	885.0	1831.3	2151.6	2160.0	2183.0
Indicator value	**0.9**	**0.8**	**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	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								2.50E-07
URI (ΔCDF)								-8.10E-07
PLE								NO
Indicator value								**-5.60E-07**

Licensee Comments:

2Q/06: Risk Cap Invoked.

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)								7.10E-08
URI (ΔCDF)								-1.60E-07
PLE								NO
Indicator value								**-8.90E-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)								-4.60E-08
URI (ΔCDF)								-2.80E-07
PLE								NO
Indicator value								**-3.26E-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/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
UAI (ΔCDF)								4.80E-12
URI (ΔCDF)								-4.80E-12
PLE								NO
Indicator value								**0.00E+00**

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)								6.20E-08
URI (ΔCDF)								-1.00E-09
PLE								NO
Indicator value								**6.10E-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	0.003660	0.003660	0.003930	0.004410	0.004250	0.004330	0.004330	0.004810	0.004490	0.004510	N/A	0.000878
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**	**0.4**	**0.5**	**N/A**	**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	0.000988	0.001120	0.001530	0.001130	0.001870	0.001290	0.001850	0.001800	0.001680	0.002130	0.002310	0.002110
Technical specification limit	1.0	1.0	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**	**0.1**	**0.2**	**0.1**	**0.2**	**0.2**	**0.2**	**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	**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	0.018	0.020	0.022	0.072	0.052	0.077	0.043	0.042	0.042	0.032	0.440	0.210
Technical specification limit	10.0	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**	**0.7**	**0.5**	**0.8**	**0.4**	**0.4**	**0.4**	**0.3**	**4.4**	**2.1**
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	0.072	0.289	0.185	0.157	0.147	0.138	0.132	0.132	0.136	0.133	0.140	0.141
Technical specification limit	10.0	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**	**2.9**	**1.9**	**1.6**	**1.5**	**1.4**	**1.3**	**1.3**	**1.4**	**1.3**	**1.4**	**1.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/04	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06
Successful opportunities	14.0	10.0	23.0	4.0	15.0	22.0	6.0	44.0
Total opportunities	14.0	10.0	24.0	4.0	16.0	23.0	6.0	48.0
Indicator value	**97.2%**	**97.5%**	**97.5%**	**97.0%**	**96.7%**	**96.4%**	**97.5%**	**95.2%**

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	137.0	128.0	134.0	133.0	131.0	132.0	123.0	125.0
Total Key personnel	139.0	138.0	134.0	136.0	140.0	136.0	132.0	129.0
Indicator value	**98.6%**	**92.8%**	**100.0%**	**97.8%**	**93.6%**	**97.1%**	**93.2%**	**96.9%**

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	431	432	432	432	359	431	432	432
Total sirens-tests	432	432	432	432	360	432	432	432
Indicator value	**99.8%**	**99.8%**	**99.8%**	**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/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

Waterford 3

3Q/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	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2209.0	2160.0	885.0	1831.3	2151.6	2160.0	2183.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**1.0**	**1.0**	**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	4Q/04	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06
Scrams	0	0	0	0	1.0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**1.0**	**1.0**	**1.0**	**1.0**

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	885.0	1831.3	2151.6	2160.0	2183.0	2208.0
Indicator value	**0.8**	**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	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**4Q/04**	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**
UAI (ΔCDF)							2.50E-07	2.10E-07
URI (ΔCDF)							-8.10E-07	-1.30E-06
PLE							NO	NO
Indicator value							**-5.60E-07**	**-1.09E-06**

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)							7.10E-08	7.30E-08
URI (ΔCDF)							8.80E-08	8.80E-08
PLE							NO	NO
Indicator value							**1.59E-07**	**1.61E-07**

Licensee Comments:

3Q/06: A change report is submitted to add one failure for High Pressure Safety Injection Pump B that was discovered on September 9, 2004. This added failure revises the 2nd quarter 2006 PI value. The revised value does not change the previous color result of Green.

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)							-4.60E-08	-6.10E-08
URI (ΔCDF)							-2.80E-07	-2.80E-07
PLE							NO	NO
Indicator value							**-3.26E-07**	**-3.41E-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/04**	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**
UAI (ΔCDF)							4.80E-12	6.10E-12
URI (ΔCDF)							2.00E-11	2.00E-11
PLE							NO	NO
Indicator value							**2.48E-11**	**2.61E-11**

Licensee Comments:

3Q/06: A change report is submitted to add one failure for Containment Spray Pump B that was discovered on September 9, 2004. This added failure revises the 2nd quarter 2006 PI value. The revised value does not change the previous color result of Green.

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)							6.20E-08	6.40E-08
URI (ΔCDF)							-1.00E-09	-2.10E-09
PLE							NO	NO
Indicator value							**6.10E-08**	**6.19E-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	0.004410	0.004250	0.004330	0.004330	0.004810	0.004490	0.004510	N/A	0.000878	0.000988	0.001120	0.001530
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.4**	**0.4**	**0.4**	**0.5**	**0.4**	**0.5**	**N/A**	**0.1**	**0.1**	**0.1**	**0.2**

Reactor Coolant System Activity	**10/05**	**11/05**	**12/05**	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**
Maximum activity	0.001130	0.001870	0.001290	0.001850	0.001800	0.001680	0.002130	0.002310	0.002110	0.002050	0.002010	0.002190
Technical specification limit	1.0	1.0	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**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**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	**10/04**	**11/04**	**12/04**	**1/05**	**2/05**	**3/05**	**4/05**	**5/05**	**6/05**	**7/05**	**8/05**	**9/05**
Maximum leakage	0.072	0.052	0.077	0.043	0.042	0.042	0.032	0.440	0.210	0.072	0.289	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	**0.7**	**0.5**	**0.8**	**0.4**	**0.4**	**0.4**	**0.3**	**4.4**	**2.1**	**0.7**	**2.9**	**1.9**
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	0.157	0.147	0.138	0.132	0.132	0.136	0.133	0.140	0.141	0.136	0.150	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	**1.6**	**1.5**	**1.4**	**1.3**	**1.3**	**1.4**	**1.3**	**1.4**	**1.4**	**1.4**	**1.5**	**1.4**

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	10.0	23.0	4.0	15.0	22.0	6.0	44.0	67.0
Total opportunities	10.0	24.0	4.0	16.0	23.0	6.0	48.0	69.0
Indicator value	**97.5%**	**97.5%**	**97.0%**	**96.7%**	**96.4%**	**97.5%**	**95.2%**	**95.5%**

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	128.0	134.0	133.0	131.0	132.0	123.0	125.0	125.0
Total Key personnel	138.0	134.0	136.0	140.0	136.0	132.0	129.0	126.0
Indicator value	**92.8%**	**100.0%**	**97.8%**	**93.6%**	**97.1%**	**93.2%**	**96.9%**	**99.2%**

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	432	432	432	359	431	432	432	431
Total sirens-tests	432	432	432	360	432	432	432	432
Indicator value	**99.8%**	**99.8%**	**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/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

Waterford 3

4Q/2006 Performance Indicators

Licensee's General Comments: none

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2160.0	885.0	1831.3	2151.6	2160.0	2183.0	2208.0	1464.3
Indicator value	**0**	**0**	**0**	**1.0**	**1.0**	**0.8**	**0.8**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
Scrams	0	0	0	1.0	0	0	0	0
Indicator value	**0**	**0**	**0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/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	885.0	1831.3	2151.6	2160.0	2183.0	2208.0	1464.3
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	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**1Q/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**
UAI (ΔCDF)						2.50E-07	2.10E-07	2.10E-07
URI (ΔCDF)						-8.10E-07	-1.30E-06	-1.40E-06
PLE						NO	NO	NO
Indicator value						**-5.60E-07**	**-1.09E-06**	**-1.19E-06**

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)						7.10E-08	7.30E-08	7.30E-08
URI (ΔCDF)						8.80E-08	8.80E-08	8.70E-08
PLE						NO	NO	NO
Indicator value						**1.59E-07**	**1.61E-07**	**1.60E-07**

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/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
UAI (ΔCDF)						-4.60E-08	-6.10E-08	-6.10E-08
URI (ΔCDF)						-2.80E-07	-2.80E-07	-2.80E-07
PLE						NO	NO	NO
Indicator value						**-3.26E-07**	**-3.41E-07**	**-3.41E-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/05**	**2Q/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**
UAI (ΔCDF)						4.80E-12	6.10E-12	5.70E-12
URI (ΔCDF)						2.00E-11	2.00E-11	2.00E-11
PLE						NO	NO	NO
Indicator value						**2.48E-11**	**2.61E-11**	**2.57E-11**

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)						6.20E-08	6.40E-08	6.40E-08
URI (ΔCDF)						-1.00E-09	-2.10E-09	-3.10E-08
PLE						NO	NO	NO
Indicator value						**6.10E-08**	**6.19E-08**	**3.30E-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	0.004330	0.004810	0.004490	0.004510	N/A	0.000878	0.000988	0.001120	0.001530	0.001130	0.001870	0.001290
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**0.5**	**0.4**	**0.5**	**N/A**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.2**	**0.1**

Reactor Coolant System Activity	**1/06**	**2/06**	**3/06**	**4/06**	**5/06**	**6/06**	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**
Maximum activity	0.001850	0.001800	0.001680	0.002130	0.002310	0.002110	0.002050	0.002010	0.002190	0.002090	0.002150	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	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**N/A**

Licensee Comments:

12/06: There is no data reported for December because three days of steady state plant operation did not occur. The plant began the month shutdown for refueling and steady state operation was not achieved until December 30, 2006.

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	0.043	0.042	0.042	0.032	0.440	0.210	0.072	0.289	0.185	0.157	0.147	0.138
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.4**	**0.4**	**0.4**	**0.3**	**4.4**	**2.1**	**0.7**	**2.9**	**1.9**	**1.6**	**1.5**	**1.4**
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	0.132	0.132	0.136	0.133	0.140	0.141	0.136	0.150	0.140	0.130	0.130	0.396
Technical specification limit	10.0	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**	**1.3**	**1.4**	**1.4**	**1.4**	**1.5**	**1.4**	**1.3**	**1.3**	**4.0**

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	23.0	4.0	15.0	22.0	6.0	44.0	67.0	12.0
Total opportunities	23.0	4.0	16.0	23.0	6.0	48.0	68.0	12.0
Indicator value	**98.1%**	**97.7%**	**97.5%**	**97.1%**	**98.3%**	**95.8%**	**96.5%**	**96.5%**

Licensee Comments:

4Q/06: Revised February 2005 and July 2006 total drill exercise & event opportunities from 10 to 9 and 23 to 22 respectively because the drill control team failed to mark the message forms with "drill" and did not constitute failure by the drll participants to take action. These changes do not affect PI color, which remains green.

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	134.0	133.0	131.0	132.0	123.0	125.0	125.0	125.0
Total Key personnel	134.0	136.0	140.0	136.0	132.0	129.0	126.0	129.0
Indicator value	**100.0%**	**97.8%**	**93.6%**	**97.1%**	**93.2%**	**96.9%**	**99.2%**	**96.9%**

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	432	432	359	431	432	432	431	431
Total sirens-tests	432	432	360	432	432	432	432	432
Indicator value	**99.8%**	**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	1Q/05	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: February 7, 2007

Waterford 3

1Q/2007 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/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	885.0	1831.3	2151.6	2160.0	2183.0	2208.0	1464.3	2159.0
Indicator value	**0**	**0**	**1.0**	**1.0**	**0.8**	**0.8**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	2Q/05	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07
Scrams	0	0	1.0	0	0	0	0	0
Indicator value	**0**	**0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**

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	0
Critical hours	885.0	1831.3	2151.6	2160.0	2183.0	2208.0	1464.3	2159.0
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)	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-07	2.10E-07	2.10E-07	2.70E-07
URI (ΔCDF)					-8.10E-07	-1.30E-06	-1.40E-06	-1.40E-06
PLE					NO	NO	NO	NO
Indicator value					**-5.60E-07**	**-1.09E-06**	**-1.19E-06**	**-1.13E-06**

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)					7.10E-08	7.30E-08	7.30E-08	7.30E-08
URI (ΔCDF)					8.80E-08	8.80E-08	8.70E-08	8.70E-08
PLE					NO	NO	NO	NO
Indicator value					**1.59E-07**	**1.61E-07**	**1.60E-07**	**1.60E-07**

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)					-4.60E-08	-6.10E-08	-6.10E-08	-3.70E-08
URI (ΔCDF)					-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07
PLE					NO	NO	NO	NO
Indicator value					**-3.26E-07**	**-3.41E-07**	**-3.41E-07**	**-3.17E-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/05**	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**
UAI (ΔCDF)					4.80E-12	6.10E-12	5.70E-12	4.20E-12
URI (ΔCDF)					2.00E-11	2.00E-11	2.00E-11	2.00E-11
PLE					NO	NO	NO	NO
Indicator value					**2.48E-11**	**2.61E-11**	**2.57E-11**	**2.42E-11**

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)					6.20E-08	6.40E-08	6.40E-08	6.40E-08
URI (ΔCDF)					-1.00E-09	-2.10E-09	-3.10E-08	-3.20E-08
PLE					NO	NO	NO	NO
Indicator value					**6.10E-08**	**6.19E-08**	**3.30E-08**	**3.20E-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	0.004510	N/A	0.000878	0.000988	0.001120	0.001530	0.001130	0.001870	0.001290	0.001850	0.001800	0.001680
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.5**	**N/A**	**0.1**	**0.1**	**0.1**	**0.2**	**0.1**	**0.2**	**0.1**	**0.2**	**0.2**	**0.2**

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	0.002130	0.002310	0.002110	0.002050	0.002010	0.002190	0.002090	0.002150	N/A	0.001700	0.001210	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	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**N/A**	**0.2**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**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	0.032	0.440	0.210	0.072	0.289	0.185	0.157	0.147	0.138	0.132	0.132	0.136
Technical specification limit	10.0	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**	**4.4**	**2.1**	**0.7**	**2.9**	**1.9**	**1.6**	**1.5**	**1.4**	**1.3**	**1.3**	**1.4**
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	0.133	0.140	0.141	0.136	0.150	0.140	0.130	0.130	0.396	0.030	0.020	0.020
Technical specification limit	10.0	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**	**1.4**	**1.4**	**1.4**	**1.5**	**1.4**	**1.3**	**1.3**	**4.0**	**0.3**	**0.2**	**0.2**

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	4.0	15.0	22.0	6.0	44.0	67.0	12.0	25.0
Total opportunities	4.0	16.0	23.0	6.0	48.0	68.0	12.0	26.0
Indicator value	**97.7%**	**97.5%**	**97.1%**	**98.3%**	**95.8%**	**96.5%**	**96.5%**	**96.1%**

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	133.0	131.0	132.0	123.0	125.0	125.0	125.0	123.0
Total Key personnel	136.0	140.0	136.0	132.0	129.0	126.0	129.0	136.0
Indicator value	**97.8%**	**93.6%**	**97.1%**	**93.2%**	**96.9%**	**99.2%**	**96.9%**	**90.4%**

Licensee Comments: none

Alert & Notification System

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	432	359	431	432	432	431	431	432
Total sirens-tests	432	360	432	432	432	432	432	432
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	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

Waterford 3

2Q/2007 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/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	1831.3	2151.6	2160.0	2183.0	2208.0	1464.3	2159.0	2184.0
Indicator value	**0**	**1.0**	**1.0**	**0.8**	**0.8**	**0**	**0**	**0**

Licensee Comments: none

Scrams with Loss of Normal Heat Removal

Thresholds: White > 2.0 Yellow > 10.0 Red > 20.0

Notes

Scrams with Loss of Normal Heat Removal	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Scrams	0	1.0	0	0	0	0	0	0
Indicator value	**0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**	**1.0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1831.3	2151.6	2160.0	2183.0	2208.0	1464.3	2159.0	2184.0
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/05	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				2.50E-07	2.10E-07	2.10E-07	2.70E-07	2.70E-07
URI (ΔCDF)				-8.10E-07	-1.30E-06	-1.40E-06	-1.40E-06	-1.40E-06
PLE				NO	NO	NO	NO	NO
Indicator value				**-5.60E-07**	**-1.09E-06**	**-1.19E-06**	**-1.13E-06**	**-1.13E-06**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**3Q/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				7.10E-08	7.30E-08	7.30E-08	7.30E-08	5.80E-08
URI (ΔCDF)				8.80E-08	8.80E-08	8.70E-08	8.70E-08	8.80E-08
PLE				NO	NO	NO	NO	NO
Indicator value				**1.59E-07**	**1.61E-07**	**1.60E-07**	**1.60E-07**	**1.46E-07**

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)				-4.60E-08	-6.10E-08	-6.10E-08	-3.70E-08	-6.30E-08
URI (ΔCDF)				-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07
PLE				NO	NO	NO	NO	NO
Indicator value				**-3.26E-07**	**-3.41E-07**	**-3.41E-07**	**-3.17E-07**	**-3.43E-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/05**	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**
UAI (ΔCDF)				4.80E-12	6.10E-12	5.70E-12	4.20E-12	2.80E-12
URI (ΔCDF)				2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11
PLE				NO	NO	NO	NO	NO
Indicator value				**2.48E-11**	**2.61E-11**	**2.57E-11**	**2.42E-11**	**2.28E-11**

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)				6.20E-08	6.40E-08	6.40E-08	6.40E-08	6.40E-08
URI (ΔCDF)				-1.00E-09	-2.10E-09	-3.10E-08	-3.20E-08	-4.40E-08
PLE				NO	NO	NO	NO	NO
Indicator value				**6.10E-08**	**6.19E-08**	**3.30E-08**	**3.20E-08**	**2.00E-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	0.000988	0.001120	0.001530	0.001130	0.001870	0.001290	0.001850	0.001800	0.001680	0.002130	0.002310	0.002110
Technical specification limit	1.0	1.0	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**	**0.1**	**0.2**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

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	0.002050	0.002010	0.002190	0.002090	0.002150	N/A	0.001700	0.001210	0.001060	0.001230	0.001180	0.001870
Technical specification limit	1.0	1.0	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**	**N/A**	**0.2**	**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	**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	0.072	0.289	0.185	0.157	0.147	0.138	0.132	0.132	0.136	0.133	0.140	0.141
Technical specification limit	10.0	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**	**2.9**	**1.9**	**1.6**	**1.5**	**1.4**	**1.3**	**1.3**	**1.4**	**1.3**	**1.4**	**1.4**
Reactor Coolant System Leakage	**7/06**	**8/06**	**9/06**	**10/06**	**11/06**	**12/06**	**1/07**	**2/07**	**3/07**	**4/07**	**5/07**	**6/07**
Maximum leakage	0.136	0.150	0.140	0.130	0.130	0.396	0.030	0.020	0.020	0.030	0.040	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	**1.4**	**1.5**	**1.4**	**1.3**	**1.3**	**4.0**	**0.3**	**0.2**	**0.2**	**0.3**	**0.4**	**0.4**

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	15.0	22.0	6.0	44.0	67.0	12.0	25.0	28.0
Total opportunities	16.0	23.0	6.0	48.0	68.0	12.0	26.0	28.0
Indicator value	**97.5%**	**97.1%**	**98.3%**	**95.8%**	**96.5%**	**96.5%**	**96.1%**	**96.5%**

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	131.0	132.0	123.0	125.0	125.0	125.0	123.0	122.0
Total Key personnel	140.0	136.0	132.0	129.0	126.0	129.0	136.0	132.0
Indicator value	**93.6%**	**97.1%**	**93.2%**	**96.9%**	**99.2%**	**96.9%**	**90.4%**	**92.4%**

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	359	431	432	432	431	431	432	431
Total sirens-tests	360	432	432	432	432	432	432	432
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	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

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3Q/2007 Performance Indicators

Licensee's General Comments: On April 10, 2007, several changes were made to the MSPI Basis Document that became effective with this quarter's submittal. Summarizing the changes: revised the High Pressure Safety Injection (MS07) boundary drawing, changed Component Cooling Water Pump (MS10) from Train AB to installed spare, changed valve ACC-110A (MS10) description to MOV, changed names URP and FVURP to URPC and FVURC in the component tables, clarified High Pressure Safety Injection (MS07) success criteria for hot leg injection, and eight Baseline Unavailability Data points were revised that minimally affected baseline values for PIs MS06 through MS10 (condition report CR-WF3-2006-3315). None of the above changes affected previously reported Performance Indicator values and all PI colors remain green.

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

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	1.0	0	0	0	0	0	0	0
Critical hours	2151.6	2160.0	2183.0	2208.0	1464.3	2159.0	2184.0	2208.0
Indicator value	**1.0**	**1.0**	**0.8**	**0.8**	**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/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2151.6	2160.0	2183.0	2208.0	1464.3	2159.0	2184.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**4Q/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			2.50E-07	2.10E-07	2.10E-07	2.70E-07	2.70E-07	1.90E-07
URI (ΔCDF)			-8.10E-07	-1.30E-06	-1.40E-06	-1.40E-06	-1.40E-06	-1.30E-06
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-5.60E-07**	**-1.09E-06**	**-1.19E-06**	**-1.13E-06**	**-1.13E-06**	**-1.11E-06**

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)			7.10E-08	7.30E-08	7.30E-08	7.30E-08	5.80E-08	-4.40E-09
URI (ΔCDF)			8.80E-08	8.80E-08	8.70E-08	8.70E-08	8.80E-08	-1.50E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**1.59E-07**	**1.61E-07**	**1.60E-07**	**1.60E-07**	**1.46E-07**	**-1.54E-07**

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)			-4.60E-08	-6.10E-08	-6.10E-08	-3.70E-08	-6.30E-08	-6.30E-08
URI (ΔCDF)			-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**-3.26E-07**	**-3.41E-07**	**-3.41E-07**	**-3.17E-07**	**-3.43E-07**	**-3.43E-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/05**	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**
UAI (ΔCDF)			4.80E-12	6.10E-12	5.70E-12	4.20E-12	2.80E-12	-2.80E-12
URI (ΔCDF)			2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11	-5.10E-12
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**2.48E-11**	**2.61E-11**	**2.57E-11**	**2.42E-11**	**2.28E-11**	**-7.90E-12**

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)			6.20E-08	6.40E-08	6.40E-08	6.40E-08	6.40E-08	6.30E-08
URI (ΔCDF)			-1.00E-09	-2.10E-09	-3.10E-08	-3.20E-08	-4.40E-08	-5.40E-08
PLE			NO	NO	NO	NO	NO	NO
Indicator value			**6.10E-08**	**6.19E-08**	**3.30E-08**	**3.20E-08**	**2.00E-08**	**9.00E-09**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	10/05	11/05	12/05	1/06	2/06	3/06	4/06	5/06	6/06	7/06	8/06	9/06
Maximum activity	0.001130	0.001870	0.001290	0.001850	0.001800	0.001680	0.002130	0.002310	0.002110	0.002050	0.002010	0.002190
Technical specification limit	1.0	1.0	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**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

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	0.002090	0.002150	N/A	0.001700	0.001210	0.001060	0.001230	0.001180	0.001870	0.001900	0.001990	0.002500
Technical specification limit	1.0	1.0	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**	**N/A**	**0.2**	**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	**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	0.157	0.147	0.138	0.132	0.132	0.136	0.133	0.140	0.141	0.136	0.150	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	**1.6**	**1.5**	**1.4**	**1.3**	**1.3**	**1.4**	**1.3**	**1.4**	**1.4**	**1.4**	**1.5**	**1.4**
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	0.130	0.130	0.396	0.030	0.020	0.020	0.030	0.040	0.040	0.038	0.040	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	**1.3**	**1.3**	**4.0**	**0.3**	**0.2**	**0.2**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.3**

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	22.0	6.0	44.0	67.0	12.0	25.0	28.0	26.0
Total opportunities	23.0	6.0	48.0	68.0	12.0	26.0	28.0	28.0
Indicator value	**97.1%**	**98.3%**	**95.8%**	**96.5%**	**96.5%**	**96.1%**	**96.5%**	**96.2%**

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	132.0	123.0	125.0	125.0	125.0	123.0	122.0	123.0
Total Key personnel	136.0	132.0	129.0	126.0	129.0	136.0	132.0	131.0
Indicator value	**97.1%**	**93.2%**	**96.9%**	**99.2%**	**96.9%**	**90.4%**	**92.4%**	**93.9%**

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	431	432	432	431	431	432	431	432
Total sirens-tests	432	432	432	432	432	432	432	432
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/05	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

RETS/ODCM Radiological Effluent

Thresholds: White > 1.0 Yellow > 3.0

Notes

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

Licensee Comments: none

Physical Protection information not publicly available.

Last Modified: December 7, 2007

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4Q/2007 Performance Indicators

Licensee's General Comments: none

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2160.0	2183.0	2208.0	1464.3	2159.0	2184.0	2208.0	1878.8
Indicator value	**1.0**	**0.8**	**0.8**	**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/06	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2160.0	2183.0	2208.0	1464.3	2159.0	2184.0	2208.0	1878.8
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**1Q/06**	**2Q/06**	**3Q/06**	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**
UAI (ΔCDF)		2.50E-07	2.10E-07	2.10E-07	2.70E-07	2.70E-07	1.90E-07	1.60E-07
URI (ΔCDF)		-8.10E-07	-1.30E-06	-1.40E-06	-1.40E-06	-1.40E-06	-1.30E-06	-1.30E-06
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-5.60E-07**	**-1.09E-06**	**-1.19E-06**	**-1.13E-06**	**-1.13E-06**	**-1.11E-06**	**-1.14E-06**

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)		7.10E-08	7.30E-08	7.30E-08	7.30E-08	5.80E-08	-4.40E-09	-1.40E-08
URI (ΔCDF)		8.80E-08	8.80E-08	8.70E-08	8.70E-08	8.80E-08	-1.50E-07	-1.40E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**1.59E-07**	**1.61E-07**	**1.60E-07**	**1.60E-07**	**1.46E-07**	**-1.54E-07**	**-1.54E-07**

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)		-4.60E-08	-6.10E-08	-6.10E-08	-3.70E-08	-6.30E-08	-6.30E-08	-4.40E-08
URI (ΔCDF)		-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**-3.26E-07**	**-3.41E-07**	**-3.41E-07**	**-3.17E-07**	**-3.43E-07**	**-3.43E-07**	**-3.24E-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)		4.80E-12	6.10E-12	5.70E-12	4.20E-12	2.80E-12	-2.80E-12	-2.80E-12
URI (ΔCDF)		2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11	-5.10E-12	-5.20E-12
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**2.48E-11**	**2.61E-11**	**2.57E-11**	**2.42E-11**	**2.28E-11**	**-7.90E-12**	**-8.00E-12**

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)		6.20E-08	6.40E-08	6.40E-08	6.40E-08	6.40E-08	6.30E-08	6.40E-08
URI (ΔCDF)		7.20E-09	6.30E-09	-2.30E-08	-2.40E-08	-3.60E-08	-4.60E-08	-4.50E-08
PLE		NO	NO	NO	NO	NO	NO	NO
Indicator value		**6.92E-08**	**7.03E-08**	**4.10E-08**	**4.00E-08**	**2.80E-08**	**1.70E-08**	**1.90E-08**

Licensee Comments:

4Q/07: In October 2007, as documented in Condition Report CR-WF3-2007-03172, device record ACCMPMP0001A (Auxiliary Component Cooling Water Pump A) was changed to show the pump status at 100% power as "Operating" instead of "Standby." The status of this pump now conforms with the MSPI Basis Document. This change had minimal impact on the indicator value and the PI remains GREEN.

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	0.001850	0.001800	0.001680	0.002130	0.002310	0.002110	0.002050	0.002010	0.002190	0.002090	0.002150	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	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**N/A**

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	0.001700	0.001210	0.001060	0.001230	0.001180	0.001870	0.001900	0.001990	0.002500	0.006940	0.001690	0.002050
Technical specification limit	1.0	1.0	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**	**0.3**	**0.7**	**0.2**	**0.2**

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	0.132	0.132	0.136	0.133	0.140	0.141	0.136	0.150	0.140	0.130	0.130	0.396
Technical specification limit	10.0	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**	**1.3**	**1.4**	**1.4**	**1.4**	**1.5**	**1.4**	**1.3**	**1.3**	**4.0**
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	0.030	0.020	0.020	0.030	0.040	0.040	0.038	0.040	0.030	0.040	0.030	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	**0.3**	**0.2**	**0.2**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.3**	**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	6.0	44.0	67.0	12.0	25.0	28.0	26.0	20.0
Total opportunities	6.0	48.0	68.0	12.0	26.0	28.0	28.0	20.0
Indicator value	**98.3%**	**95.8%**	**96.5%**	**96.5%**	**96.1%**	**96.5%**	**96.2%**	**96.6%**

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	123.0	125.0	125.0	125.0	123.0	122.0	123.0	120.0
Total Key personnel	132.0	129.0	126.0	129.0	136.0	132.0	131.0	123.0
Indicator value	**93.2%**	**96.9%**	**99.2%**	**96.9%**	**90.4%**	**92.4%**	**93.9%**	**97.6%**

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	432	432	431	431	432	431	432	432
Total sirens-tests	432	432	432	432	432	432	432	432
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**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/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

Waterford 3

1Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2183.0	2208.0	1464.3	2159.0	2184.0	2208.0	1878.8	2183.0
Indicator value	**0.8**	**0.8**	**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/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2183.0	2208.0	1464.3	2159.0	2184.0	2208.0	1878.8	2183.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	2Q/06	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08
UAI (ΔCDF)	2.50E-07	2.10E-07	2.10E-07	2.70E-07	2.70E-07	1.90E-07	1.60E-07	-1.40E-07
URI (ΔCDF)	-8.10E-07	-1.30E-06	-1.40E-06	-1.40E-06	-1.40E-06	-1.30E-06	-1.30E-06	-1.40E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.60E-07**	**-1.09E-06**	**-1.19E-06**	**-1.13E-06**	**-1.13E-06**	**-1.11E-06**	**-1.14E-06**	**-1.54E-06**

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)	7.10E-08	7.30E-08	7.30E-08	7.30E-08	5.80E-08	-4.40E-09	-1.40E-08	-6.30E-09
URI (ΔCDF)	8.80E-08	8.80E-08	8.70E-08	8.70E-08	8.80E-08	-1.50E-07	-1.40E-07	-1.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.59E-07**	**1.61E-07**	**1.60E-07**	**1.60E-07**	**1.46E-07**	**-1.54E-07**	**-1.54E-07**	**-1.46E-07**

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)	-4.60E-08	-6.10E-08	-6.10E-08	-3.70E-08	-6.30E-08	-6.30E-08	-4.40E-08	-2.20E-08
URI (ΔCDF)	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.26E-07**	**-3.41E-07**	**-3.41E-07**	**-3.17E-07**	**-3.43E-07**	**-3.43E-07**	**-3.24E-07**	**-3.02E-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)	4.80E-12	6.10E-12	5.70E-12	4.20E-12	2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12
URI (ΔCDF)	2.00E-11	2.00E-11	2.00E-11	2.00E-11	2.00E-11	-5.10E-12	-5.20E-12	-5.10E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.48E-11**	**2.61E-11**	**2.57E-11**	**2.42E-11**	**2.28E-11**	**-7.90E-12**	**-8.00E-12**	**-7.90E-12**

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)	6.20E-08	6.40E-08	6.40E-08	6.40E-08	6.40E-08	6.30E-08	6.40E-08	6.50E-08
URI (ΔCDF)	7.20E-09	6.30E-09	-2.30E-08	-2.40E-08	-3.60E-08	-4.60E-08	-4.50E-08	-2.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**6.92E-08**	**7.03E-08**	**4.10E-08**	**4.00E-08**	**2.80E-08**	**1.70E-08**	**1.90E-08**	**4.50E-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	0.002130	0.002310	0.002110	0.002050	0.002010	0.002190	0.002090	0.002150	N/A	0.001700	0.001210	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	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**N/A**	**0.2**	**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	0.001230	0.001180	0.001870	0.001900	0.001990	0.002500	0.006940	0.001690	0.002050	0.002460	0.002220	0.001910
Technical specification limit	1.0	1.0	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**	**0.7**	**0.2**	**0.2**	**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	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	0.133	0.140	0.141	0.136	0.150	0.140	0.130	0.130	0.396	0.030	0.020	0.020
Technical specification limit	10.0	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**	**1.4**	**1.4**	**1.4**	**1.5**	**1.4**	**1.3**	**1.3**	**4.0**	**0.3**	**0.2**	**0.2**
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	0.030	0.040	0.040	0.038	0.040	0.030	0.040	0.030	0.030	0.030	0.030	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	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.3**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**

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	44.0	67.0	12.0	25.0	28.0	26.0	20.0	37.0
Total opportunities	48.0	68.0	12.0	26.0	28.0	28.0	20.0	38.0
Indicator value	**95.8%**	**96.5%**	**96.5%**	**96.1%**	**96.5%**	**96.2%**	**96.6%**	**96.6%**

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	125.0	125.0	125.0	123.0	122.0	123.0	120.0	126.0
Total Key personnel	129.0	126.0	129.0	136.0	132.0	131.0	123.0	133.0
Indicator value	**96.9%**	**99.2%**	**96.9%**	**90.4%**	**92.4%**	**93.9%**	**97.6%**	**94.7%**

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	432	431	431	432	431	432	432	432
Total sirens-tests	432	432	432	432	432	432	432	432
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**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

Waterford 3

2Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	1464.3	2159.0	2184.0	2208.0	1878.8	2183.0	1349.8
Indicator value	**0.8**	**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/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2208.0	1464.3	2159.0	2184.0	2208.0	1878.8	2183.0	1349.8
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**

Licensee Comments:

2Q/08: During power ascension following Refuel Outage 15, the unit was shutdown to repair a steam leak from a test connection on the Main Turbine. The leak was repaired within five hours and the power ascension was resumed.

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/06	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08
UAI (ΔCDF)	2.10E-07	2.10E-07	2.70E-07	2.70E-07	1.90E-07	1.60E-07	-1.40E-07	-1.50E-07
URI (ΔCDF)	-1.30E-06	-1.40E-06	-1.40E-06	-1.40E-06	-1.30E-06	-1.30E-06	-1.40E-06	-2.00E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.09E-06**	**-1.19E-06**	**-1.13E-06**	**-1.13E-06**	**-1.11E-06**	**-1.14E-06**	**-1.54E-06**	**-2.15E-06**

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)	7.30E-08	7.30E-08	7.30E-08	5.80E-08	-4.40E-09	-1.40E-08	-6.30E-09	-8.00E-09
URI (ΔCDF)	8.80E-08	8.70E-08	8.70E-08	8.80E-08	-1.50E-07	-1.40E-07	-1.40E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.61E-07**	**1.60E-07**	**1.60E-07**	**1.46E-07**	**-1.54E-07**	**-1.54E-07**	**-1.46E-07**	**-1.58E-07**

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)	-6.10E-08	-6.10E-08	-3.70E-08	-6.30E-08	-6.30E-08	-4.40E-08	-2.20E-08	-2.40E-08
URI (ΔCDF)	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.41E-07**	**-3.41E-07**	**-3.17E-07**	**-3.43E-07**	**-3.43E-07**	**-3.24E-07**	**-3.02E-07**	**-3.04E-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)	6.10E-12	5.70E-12	4.20E-12	2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12
URI (ΔCDF)	2.00E-11	2.00E-11	2.00E-11	2.00E-11	-5.10E-12	-5.20E-12	-5.10E-12	-5.20E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.61E-11**	**2.57E-11**	**2.42E-11**	**2.28E-11**	**-7.90E-12**	**-8.00E-12**	**-7.90E-12**	**-8.00E-12**

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)	6.40E-08	6.40E-08	6.40E-08	6.40E-08	6.30E-08	6.40E-08	6.50E-08	6.40E-08
URI (ΔCDF)	6.30E-09	-2.30E-08	-2.40E-08	-3.60E-08	-4.60E-08	-4.50E-08	-2.00E-08	-2.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.03E-08**	**4.10E-08**	**4.00E-08**	**2.80E-08**	**1.70E-08**	**1.90E-08**	**4.50E-08**	**4.30E-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	0.002050	0.002010	0.002190	0.002090	0.002150	N/A	0.001700	0.001210	0.001060	0.001230	0.001180	0.001870
Technical specification limit	1.0	1.0	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**	**N/A**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**

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	0.001900	0.001990	0.002500	0.006940	0.001690	0.002050	0.002460	0.002220	0.001910	0.004460	N/A	0.000925
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.3**	**0.7**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.4**	**N/A**	**0.1**

Licensee Comments:

6/08: The Reactor was shutdown for the entire month of May 2008 to conduct planned Refueling Outage 15.

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	0.136	0.150	0.140	0.130	0.130	0.396	0.030	0.020	0.020	0.030	0.040	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	**1.4**	**1.5**	**1.4**	**1.3**	**1.3**	**4.0**	**0.3**	**0.2**	**0.2**	**0.3**	**0.4**	**0.4**
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	0.038	0.040	0.030	0.040	0.030	0.030	0.030	0.030	0.030	0.030	N/A	0.060
Technical specification limit	10.0	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**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**N/A**	**0.6**

Licensee Comments:

6/08: The Reactor was shutdown for the entire month of May 2008 to conduct planned Refueling Outage 15.

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	67.0	12.0	25.0	28.0	26.0	20.0	37.0	8.0
Total opportunities	68.0	12.0	26.0	28.0	28.0	20.0	38.0	8.0
Indicator value	**96.5%**	**96.5%**	**96.1%**	**96.5%**	**96.2%**	**96.6%**	**96.6%**	**97.8%**

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	125.0	125.0	123.0	122.0	123.0	120.0	126.0	112.0
Total Key personnel	126.0	129.0	136.0	132.0	131.0	123.0	133.0	121.0
Indicator value	**99.2%**	**96.9%**	**90.4%**	**92.4%**	**93.9%**	**97.6%**	**94.7%**	**92.6%**

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	431	431	432	431	432	432	432	431
Total sirens-tests	432	432	432	432	432	432	432	432
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.8%**	**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.

Waterford 3

3Q/2008 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1464.3	2159.0	2184.0	2208.0	1878.8	2183.0	1349.8	1991.0
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/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
Unplanned power changes	0	0	0	0	0	0	1.0	0
Critical hours	1464.3	2159.0	2184.0	2208.0	1878.8	2183.0	1349.8	1991.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**

Licensee Comments:

3Q/08: A controlled plant shutdown was performed on August 31, 2008 in anticipation of Hurricane Gustav. Per NEI 99-02 guidance, this shutdown does not count toward this performance indicator because it was intended to reduce the impact of an external event.

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**4Q/06**	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**
UAI (ΔCDF)	2.10E-07	2.70E-07	2.70E-07	1.90E-07	1.60E-07	-1.40E-07	-1.50E-07	-1.50E-07
URI (ΔCDF)	-1.40E-06	-1.40E-06	-1.40E-06	-1.30E-06	-1.30E-06	-1.40E-06	-2.00E-06	-1.80E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.19E-06**	**-1.13E-06**	**-1.13E-06**	**-1.11E-06**	**-1.14E-06**	**-1.54E-06**	**-2.15E-06**	**-1.95E-06**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/06	1Q/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08
UAI (ΔCDF)	7.30E-08	7.30E-08	5.80E-08	-4.40E-09	-1.40E-08	-6.30E-09	-8.00E-09	-1.20E-08
URI (ΔCDF)	8.70E-08	8.70E-08	8.80E-08	-1.50E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.60E-07**	**1.60E-07**	**1.46E-07**	**-1.54E-07**	**-1.54E-07**	**-1.46E-07**	**-1.58E-07**	**-1.62E-07**

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)	-6.10E-08	-3.70E-08	-6.30E-08	-6.30E-08	-4.40E-08	-2.20E-08	-2.40E-08	-2.40E-08
URI (ΔCDF)	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.41E-07**	**-3.17E-07**	**-3.43E-07**	**-3.43E-07**	**-3.24E-07**	**-3.02E-07**	**-3.04E-07**	**-3.04E-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)	5.70E-12	4.20E-12	2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12
URI (ΔCDF)	2.00E-11	2.00E-11	2.00E-11	-5.10E-12	-5.20E-12	-5.10E-12	-5.20E-12	-5.50E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.57E-11**	**2.42E-11**	**2.28E-11**	**-7.90E-12**	**-8.00E-12**	**-7.90E-12**	**-8.00E-12**	**-8.30E-12**

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)	6.40E-08	6.40E-08	6.40E-08	6.30E-08	6.40E-08	6.50E-08	6.40E-08	2.50E-09
URI (ΔCDF)	-2.30E-08	-2.40E-08	-3.60E-08	-4.60E-08	-4.50E-08	-2.00E-08	-2.10E-08	-1.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.10E-08**	**4.00E-08**	**2.80E-08**	**1.70E-08**	**1.90E-08**	**4.50E-08**	**4.30E-08**	**-1.65E-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	0.002090	0.002150	N/A	0.001700	0.001210	0.001060	0.001230	0.001180	0.001870	0.001900	0.001990	0.002500
Technical specification limit	1.0	1.0	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**	**N/A**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**0.2**	**0.2**	**0.3**

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	0.006940	0.001690	0.002050	0.002460	0.002220	0.001910	0.004460	N/A	0.000925	0.001530	0.001860	0.001340
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.7**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.4**	**N/A**	**0.1**	**0.2**	**0.2**	**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	0.130	0.130	0.396	0.030	0.020	0.020	0.030	0.040	0.040	0.038	0.040	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	**1.3**	**1.3**	**4.0**	**0.3**	**0.2**	**0.2**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.3**
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	0.040	0.030	0.030	0.030	0.030	0.030	0.030	N/A	0.060	0.050	0.060	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	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**N/A**	**0.6**	**0.5**	**0.6**	**1.4**

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	12.0	25.0	28.0	26.0	20.0	37.0	8.0	39.0
Total opportunities	12.0	26.0	28.0	28.0	20.0	38.0	8.0	40.0
Indicator value	**96.5%**	**96.1%**	**96.5%**	**96.2%**	**96.6%**	**96.6%**	**97.8%**	**97.5%**

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	125.0	123.0	122.0	123.0	120.0	126.0	112.0	120.0
Total Key personnel	129.0	136.0	132.0	131.0	123.0	133.0	121.0	126.0
Indicator value	**96.9%**	**90.4%**	**92.4%**	**93.9%**	**97.6%**	**94.7%**	**92.6%**	**95.2%**

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	431	432	431	432	432	432	431	432
Total sirens-tests	432	432	432	432	432	432	432	432
Indicator value	**99.9%**	**99.9%**	**99.8%**	**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

Waterford 3

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	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	1878.8	2183.0	1349.8	1991.0	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/07	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2159.0	2184.0	2208.0	1878.8	2183.0	1349.8	1991.0	2209.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

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

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

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

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**1Q/07**	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**
UAI (ΔCDF)	2.70E-07	2.70E-07	1.90E-07	1.60E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.50E-07
URI (ΔCDF)	-1.40E-06	-1.40E-06	-1.30E-06	-1.30E-06	-1.40E-06	-2.00E-06	-1.80E-06	-1.60E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.13E-06**	**-1.13E-06**	**-1.11E-06**	**-1.14E-06**	**-1.54E-06**	**-2.15E-06**	**-1.95E-06**	**-1.75E-06**

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)	7.30E-08	5.80E-08	-4.40E-09	-1.40E-08	-6.30E-09	-8.00E-09	-1.20E-08	-2.00E-08
URI (ΔCDF)	8.70E-08	8.80E-08	-1.50E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.50E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.60E-07**	**1.46E-07**	**-1.54E-07**	**-1.54E-07**	**-1.46E-07**	**-1.58E-07**	**-1.62E-07**	**-1.70E-07**

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)	-3.70E-08	-6.30E-08	-6.30E-08	-4.40E-08	-2.20E-08	-2.40E-08	-2.40E-08	-3.00E-08
URI (ΔCDF)	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.17E-07**	**-3.43E-07**	**-3.43E-07**	**-3.24E-07**	**-3.02E-07**	**-3.04E-07**	**-3.04E-07**	**-3.10E-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)	4.20E-12	2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12
URI (ΔCDF)	2.00E-11	2.00E-11	-5.10E-12	-5.20E-12	-5.10E-12	-5.20E-12	-5.50E-12	-5.50E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.42E-11**	**2.28E-11**	**-7.90E-12**	**-8.00E-12**	**-7.90E-12**	**-8.00E-12**	**-8.30E-12**	**-8.30E-12**

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)	6.40E-08	6.40E-08	6.30E-08	6.40E-08	6.50E-08	6.40E-08	2.50E-09	2.50E-09
URI (ΔCDF)	-2.40E-08	-3.60E-08	-4.60E-08	-4.50E-08	-2.00E-08	-2.10E-08	-1.90E-08	-1.90E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.00E-08**	**2.80E-08**	**1.70E-08**	**1.90E-08**	**4.50E-08**	**4.30E-08**	**-1.65E-08**	**-1.65E-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	0.001700	0.001210	0.001060	0.001230	0.001180	0.001870	0.001900	0.001990	0.002500	0.006940	0.001690	0.002050
Technical specification limit	1.0	1.0	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**	**0.3**	**0.7**	**0.2**	**0.2**

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	0.002460	0.002220	0.001910	0.004460	N/A	0.000925	0.001530	0.001860	0.001340	0.001840	0.004060	0.012800
Technical specification limit	1.0	1.0	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**	**0.4**	**N/A**	**0.1**	**0.2**	**0.2**	**0.1**	**0.2**	**0.4**	**1.3**

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	0.030	0.020	0.020	0.030	0.040	0.040	0.038	0.040	0.030	0.040	0.030	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	**0.3**	**0.2**	**0.2**	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.3**	**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	0.030	0.030	0.030	0.030	N/A	0.060	0.050	0.060	0.140	0.120	0.110	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	**0.3**	**0.3**	**0.3**	**0.3**	**N/A**	**0.6**	**0.5**	**0.6**	**1.4**	**1.2**	**1.1**	**1.1**

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	25.0	28.0	26.0	20.0	37.0	8.0	39.0	28.0
Total opportunities	26.0	28.0	28.0	20.0	38.0	8.0	40.0	28.0
Indicator value	**96.1%**	**96.5%**	**96.2%**	**96.6%**	**96.6%**	**97.8%**	**97.5%**	**97.7%**

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	123.0	122.0	123.0	120.0	126.0	112.0	120.0	124.0
Total Key personnel	136.0	132.0	131.0	123.0	133.0	121.0	126.0	128.0
Indicator value	**90.4%**	**92.4%**	**93.9%**	**97.6%**	**94.7%**	**92.6%**	**95.2%**	**96.9%**

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	432	431	432	432	432	431	432	431
Total sirens-tests	432	432	432	432	432	432	432	432
Indicator value	**99.9%**	**99.8%**	**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

Waterford 3

1Q/2009 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	1878.8	2183.0	1349.8	1991.0	2209.0	2159.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2184.0	2208.0	1878.8	2183.0	1349.8	1991.0	2209.0	2159.0
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.9**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value		**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/07	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**2Q/07**	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**
UAI (ΔCDF)	2.70E-07	1.90E-07	1.60E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	2.40E-08
URI (ΔCDF)	-1.40E-06	-1.30E-06	-1.30E-06	-1.40E-06	-2.00E-06	-1.80E-06	-1.60E-06	-1.60E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.13E-06**	**-1.11E-06**	**-1.14E-06**	**-1.54E-06**	**-2.15E-06**	**-1.95E-06**	**-1.75E-06**	**-1.58E-06**

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)	5.80E-08	-4.40E-09	-1.40E-08	-6.30E-09	-8.00E-09	-1.20E-08	-2.00E-08	-2.00E-08
URI (ΔCDF)	8.80E-08	-1.50E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.60E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.46E-07**	**-1.54E-07**	**-1.54E-07**	**-1.46E-07**	**-1.58E-07**	**-1.62E-07**	**-1.70E-07**	**-1.80E-07**

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)	-6.30E-08	-6.30E-08	-4.40E-08	-2.20E-08	-2.40E-08	-2.40E-08	-3.00E-08	-3.00E-08
URI (ΔCDF)	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.43E-07**	**-3.43E-07**	**-3.24E-07**	**-3.02E-07**	**-3.04E-07**	**-3.04E-07**	**-3.10E-07**	**-3.10E-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)	2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12
URI (ΔCDF)	2.00E-11	-5.10E-12	-5.20E-12	-5.10E-12	-5.20E-12	-5.50E-12	-5.50E-12	-5.50E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.28E-11**	**-7.90E-12**	**-8.00E-12**	**-7.90E-12**	**-8.00E-12**	**-8.30E-12**	**-8.30E-12**	**-8.30E-12**

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)	6.40E-08	6.30E-08	6.40E-08	6.50E-08	6.40E-08	2.50E-09	2.50E-09	3.20E-09
URI (ΔCDF)	-3.60E-08	-4.60E-08	-4.50E-08	-2.00E-08	-2.10E-08	-1.90E-08	-1.90E-08	-2.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.80E-08**	**1.70E-08**	**1.90E-08**	**4.50E-08**	**4.30E-08**	**-1.65E-08**	**-1.65E-08**	**-1.68E-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	0.001230	0.001180	0.001870	0.001900	0.001990	0.002500	0.006940	0.001690	0.002050	0.002460	0.002220	0.001910
Technical specification limit	1.0	1.0	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**	**0.7**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

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	0.004460	N/A	0.000925	0.001530	0.001860	0.001340	0.001840	0.004060	0.012800	0.015700	0.017900	0.021400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**N/A**	**0.1**	**0.2**	**0.2**	**0.1**	**0.2**	**0.4**	**1.3**	**1.6**	**1.8**	**2.1**

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	0.030	0.040	0.040	0.038	0.040	0.030	0.040	0.030	0.030	0.030	0.030	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	**0.3**	**0.4**	**0.4**	**0.4**	**0.4**	**0.3**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**
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	0.030	N/A	0.060	0.050	0.060	0.140	0.120	0.110	0.110	0.110	0.110	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	**0.3**	**N/A**	**0.6**	**0.5**	**0.6**	**1.4**	**1.2**	**1.1**	**1.1**	**1.1**	**1.1**	**1.1**

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	28.0	26.0	20.0	37.0	8.0	39.0	28.0	44.0
Total opportunities	28.0	28.0	20.0	38.0	8.0	40.0	28.0	44.0
Indicator value	**96.5%**	**96.2%**	**96.6%**	**96.6%**	**97.8%**	**97.5%**	**97.7%**	**98.3%**

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	122.0	123.0	120.0	126.0	112.0	120.0	124.0	120.0
Total Key personnel	132.0	131.0	123.0	133.0	121.0	126.0	128.0	124.0
Indicator value	**92.4%**	**93.9%**	**97.6%**	**94.7%**	**92.6%**	**95.2%**	**96.9%**	**96.8%**

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	431	432	432	432	431	432	431	432
Total sirens-tests	432	432	432	432	432	432	432	432
Indicator value	**99.8%**	**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

Waterford 3

2Q/2009 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2208.0	1878.8	2183.0	1349.8	1991.0	2209.0	2159.0	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2208.0	1878.8	2183.0	1349.8	1991.0	2209.0	2159.0	2184.0
Indicator value	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.9**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**3Q/07**	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**
UAI (ΔCDF)	1.90E-07	1.60E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	2.40E-08	3.30E-08
URI (ΔCDF)	-1.30E-06	-1.30E-06	-1.40E-06	-2.00E-06	-1.80E-06	-1.60E-06	-1.60E-06	-1.70E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.11E-06**	**-1.14E-06**	**-1.54E-06**	**-2.15E-06**	**-1.95E-06**	**-1.75E-06**	**-1.58E-06**	**-1.67E-06**

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)	-4.40E-09	-1.40E-08	-6.30E-09	-8.00E-09	-1.20E-08	-2.00E-08	-2.00E-08	-1.40E-08
URI (ΔCDF)	-1.50E-07	-1.40E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.60E-07	1.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.54E-07**	**-1.54E-07**	**-1.46E-07**	**-1.58E-07**	**-1.62E-07**	**-1.70E-07**	**-1.80E-07**	**-2.00E-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/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
UAI (ΔCDF)	-6.30E-08	-4.40E-08	-2.20E-08	-2.40E-08	-2.40E-08	-3.00E-08	-3.00E-08	-3.00E-08
URI (ΔCDF)	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.43E-07**	**-3.24E-07**	**-3.02E-07**	**-3.04E-07**	**-3.04E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-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)	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12
URI (ΔCDF)	-5.10E-12	-5.20E-12	-5.10E-12	-5.20E-12	-5.50E-12	-5.50E-12	-5.50E-12	-5.60E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.90E-12**	**-8.00E-12**	**-7.90E-12**	**-8.00E-12**	**-8.30E-12**	**-8.30E-12**	**-8.30E-12**	**-8.40E-12**

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)	6.30E-08	6.40E-08	6.50E-08	6.40E-08	2.50E-09	2.50E-09	3.20E-09	3.20E-09
URI (ΔCDF)	-4.60E-08	-4.50E-08	-2.00E-08	-2.10E-08	-1.90E-08	-1.90E-08	-2.00E-08	-2.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.70E-08**	**1.90E-08**	**4.50E-08**	**4.30E-08**	**-1.65E-08**	**-1.65E-08**	**-1.68E-08**	**-1.78E-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	0.001900	0.001990	0.002500	0.006940	0.001690	0.002050	0.002460	0.002220	0.001910	0.004460	N/A	0.000925
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.2**	**0.2**	**0.3**	**0.7**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.4**	**N/A**	**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	0.001530	0.001860	0.001340	0.001840	0.004060	0.012800	0.015700	0.017900	0.021400	0.025800	0.030800	0.030900
Technical specification limit	1.0	1.0	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**	**0.1**	**0.2**	**0.4**	**1.3**	**1.6**	**1.8**	**2.1**	**2.6**	**3.1**	**3.1**

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	0.038	0.040	0.030	0.040	0.030	0.030	0.030	0.030	0.030	0.030	N/A	0.060
Technical specification limit	10.0	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**	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**N/A**	**0.6**
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	0.050	0.060	0.140	0.120	0.110	0.110	0.110	0.110	0.110	0.140	0.120	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	**0.5**	**0.6**	**1.4**	**1.2**	**1.1**	**1.1**	**1.1**	**1.1**	**1.1**	**1.4**	**1.2**	**1.1**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/07	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09
Successful opportunities	26.0	20.0	37.0	8.0	38.0	28.0	44.0	41.0
Total opportunities	28.0	20.0	38.0	8.0	40.0	28.0	44.0	42.0
Indicator value	**96.2%**	**96.6%**	**96.6%**	**97.8%**	**97.0%**	**97.2%**	**97.9%**	**97.6%**

Licensee Comments:

2Q/09: A change was made to the September 2008 number of successful drill, exercise and event opportunities that revised the total number of sucesses in the 3rd quarter data from 39 to 38. This change was identified during review of the data. There is no affect on the indicator color, which remained GREEN for that and subsequent quarters.

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	123.0	120.0	126.0	112.0	120.0	124.0	120.0	123.0
Total Key personnel	131.0	123.0	133.0	121.0	126.0	128.0	124.0	132.0
Indicator value	**93.9%**	**97.6%**	**94.7%**	**92.6%**	**95.2%**	**96.9%**	**96.8%**	**93.2%**

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	432	432	432	431	432	431	432	437
Total sirens-tests	432	432	432	432	432	432	432	438
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

Waterford 3

3Q/2009 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	1878.8	2183.0	1349.8	1991.0	2209.0	2159.0	2184.0	2208.0
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/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	1878.8	2183.0	1349.8	1991.0	2209.0	2159.0	2184.0	2208.0
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.9**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	4Q/07	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09
Safety System Functional Failures	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**4Q/07**	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**
UAI (ΔCDF)	1.60E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	2.40E-08	3.30E-08	3.30E-08
URI (ΔCDF)	-1.30E-06	-1.40E-06	-2.00E-06	-1.80E-06	-1.60E-06	-1.60E-06	-1.70E-06	-1.70E-06
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.14E-06**	**-1.54E-06**	**-2.15E-06**	**-1.95E-06**	**-1.75E-06**	**-1.58E-06**	**-1.67E-06**	**-1.67E-06**

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)	-1.40E-08	-6.30E-09	-8.00E-09	-1.20E-08	-2.00E-08	-2.00E-08	-1.40E-08	-1.70E-08
URI (ΔCDF)	-1.40E-07	-1.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.60E-07	1.20E-08	5.10E-09
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.54E-07**	**-1.46E-07**	**-1.58E-07**	**-1.62E-07**	**-1.70E-07**	**-1.80E-07**	**-2.00E-09**	**-1.19E-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)	-4.40E-08	-2.20E-08	-2.40E-08	-2.40E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08
URI (ΔCDF)	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.24E-07**	**-3.02E-07**	**-3.04E-07**	**-3.04E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-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)	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-3.00E-12
URI (ΔCDF)	-5.20E-12	-5.10E-12	-5.20E-12	-5.50E-12	-5.50E-12	-5.50E-12	-5.60E-12	-5.50E-12
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.00E-12**	**-7.90E-12**	**-8.00E-12**	**-8.30E-12**	**-8.30E-12**	**-8.30E-12**	**-8.40E-12**	**-8.50E-12**

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)	6.40E-08	6.50E-08	6.40E-08	2.50E-09	2.50E-09	3.20E-09	3.20E-09	1.50E-09
URI (ΔCDF)	-4.50E-08	-2.00E-08	-2.10E-08	-1.90E-08	-1.90E-08	-2.00E-08	-2.10E-08	-2.00E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.90E-08**	**4.50E-08**	**4.30E-08**	**-1.65E-08**	**-1.65E-08**	**-1.68E-08**	**-1.78E-08**	**-1.85E-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	0.006940	0.001690	0.002050	0.002460	0.002220	0.001910	0.004460	N/A	0.000925	0.001530	0.001860	0.001340
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.7**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.4**	**N/A**	**0.1**	**0.2**	**0.2**	**0.1**

Reactor Coolant System Activity	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**
Maximum activity	0.001840	0.004060	0.012800	0.015700	0.017900	0.021400	0.025800	0.030800	0.030900	0.028700	0.051100	0.037000
Technical specification limit	1.0	1.0	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**	**1.3**	**1.6**	**1.8**	**2.1**	**2.6**	**3.1**	**3.1**	**2.9**	**5.1**	**3.7**

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	0.040	0.030	0.030	0.030	0.030	0.030	0.030	N/A	0.060	0.050	0.060	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	**0.4**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**0.3**	**N/A**	**0.6**	**0.5**	**0.6**	**1.4**
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	0.120	0.110	0.110	0.110	0.110	0.110	0.140	0.120	0.110	0.150	0.130	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	**1.2**	**1.1**	**1.1**	**1.1**	**1.1**	**1.1**	**1.4**	**1.2**	**1.1**	**1.5**	**1.3**	**1.2**

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	20.0	37.0	8.0	38.0	28.0	44.0	41.0	18.0
Total opportunities	20.0	38.0	8.0	40.0	28.0	44.0	42.0	18.0
Indicator value	**96.6%**	**96.6%**	**97.8%**	**97.0%**	**97.2%**	**97.9%**	**97.6%**	**98.3%**

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	120.0	126.0	112.0	120.0	124.0	120.0	123.0	125.0
Total Key personnel	123.0	133.0	121.0	126.0	128.0	124.0	132.0	131.0
Indicator value	**97.6%**	**94.7%**	**92.6%**	**95.2%**	**96.9%**	**96.8%**	**93.2%**	**95.4%**

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	432	432	431	432	431	432	437	438
Total sirens-tests	432	432	432	432	432	432	438	438
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

Waterford 3

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	2183.0	1349.8	1991.0	2209.0	2159.0	2184.0	2208.0	1162.1
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Unplanned power changes	0	1.0	0	0	0	0	0	1.0
Critical hours	2183.0	1349.8	1991.0	2209.0	2159.0	2184.0	2208.0	1162.1
Indicator value	**0**	**0.9**	**0.9**	**0.9**	**0.9**	**0**	**0**	**0.9**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/08	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09
Safety System Functional Failures	0	0	0	0	0	0	0	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/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	-1.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	2.40E-08	3.30E-08	3.30E-08	4.80E-08
URI (ΔCDF)	-1.40E-06	-2.00E-06	-1.80E-06	-1.60E-06	-1.60E-06	-1.70E-06	-1.70E-06	-6.10E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.54E-06**	**-2.15E-06**	**-1.95E-06**	**-1.75E-06**	**-1.58E-06**	**-1.67E-06**	**-1.67E-06**	**-5.62E-07**

Licensee Comments:

4Q/09: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised to reflect changes from a PRA model update. The update included improvements in the technical adequacy of the model and consistency with Regulatory Guide 1.200 as well as changes to ensure consistency with the as-built, as-operated plant. This PRA model update was also a periodic update to incorporate updated (plant-specific as appropriate) initiating events and component failure data. The failure modes for the Emergency Diesel Generators are consistent with NUREG/CR-6928.

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)	-6.30E-09	-8.00E-09	-1.20E-08	-2.00E-08	-2.00E-08	-1.40E-08	-1.70E-08	-8.10E-09
URI (ΔCDF)	-1.40E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.60E-07	1.20E-08	5.10E-09	1.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.46E-07**	**-1.58E-07**	**-1.62E-07**	**-1.70E-07**	**-1.80E-07**	**-2.00E-09**	**-1.19E-08**	**2.90E-09**

Licensee Comments:

4Q/09: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised to reflect changes from a PRA model update. The update included improvements in the technical adequacy of the model and consistency with Regulatory Guide 1.200 as well as changes to ensure consistency with the as-built, as-operated plant. This PRA model update was also a periodic update to incorporate updated (plant-specific as appropriate) initiating events and component failure data.

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	-2.40E-08	-2.40E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-1.00E-08
URI (ΔCDF)	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-3.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.02E-07**	**-3.04E-07**	**-3.04E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**

Licensee Comments:

4Q/09: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised to reflect changes from a PRA model update. The update included improvements in the technical adequacy of the model and consistency with Regulatory Guide 1.200 as well as changes to ensure consistency with the as-built, as-operated plant. This PRA model update was also a periodic update to incorporate updated (plant-specific as appropriate) initiating events and component failure data.

Mitigating Systems Performance Index, Residual Heat Removal System

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

Notes

Mitigating Systems Performance Index, Residual Heat Removal System	**1Q/08**	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**
UAI (ΔCDF)	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-3.00E-12	-1.30E-12
URI (ΔCDF)	-5.10E-12	-5.20E-12	-5.50E-12	-5.50E-12	-5.50E-12	-5.60E-12	-5.50E-12	-1.20E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.90E-12**	**-8.00E-12**	**-8.30E-12**	**-8.30E-12**	**-8.30E-12**	**-8.40E-12**	**-8.50E-12**	**-1.33E-11**

Licensee Comments:

4Q/09: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised to reflect changes from a PRA model update. The update included improvements in the technical adequacy of the model and consistency with Regulatory Guide 1.200 as well as changes to ensure consistency with the as-built, as-operated plant. This PRA model update was also a periodic update to incorporate updated (plant-specific as appropriate) initiating events and component failure data.

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)	6.50E-08	6.40E-08	2.50E-09	2.50E-09	3.20E-09	3.20E-09	1.50E-09	2.00E-09
URI (ΔCDF)	-2.00E-08	-2.10E-08	-1.90E-08	-1.90E-08	-2.00E-08	-2.10E-08	-2.00E-08	-1.70E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.50E-08**	**4.30E-08**	**-1.65E-08**	**-1.65E-08**	**-1.68E-08**	**-1.78E-08**	**-1.85E-08**	**-1.50E-08**

Licensee Comments:

4Q/09: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised to reflect changes from a PRA model update. The update included improvements in the technical adequacy of the model and consistency with Regulatory Guide 1.200 as well as changes to ensure consistency with the as-built, as-operated plant. This PRA model update was also a periodic update to incorporate updated (plant-specific as appropriate) initiating events and component failure data.

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	0.002460	0.002220	0.001910	0.004460	N/A	0.000925	0.001530	0.001860	0.001340	0.001840	0.004060	0.012800
Technical specification limit	1.0	1.0	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**	**0.4**	**N/A**	**0.1**	**0.2**	**0.2**	**0.1**	**0.2**	**0.4**	**1.3**

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	0.015700	0.017900	0.021400	0.025800	0.030800	0.030900	0.028700	0.051100	0.037000	0.022700	N/A	0.000289
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**1.6**	**1.8**	**2.1**	**2.6**	**3.1**	**3.1**	**2.9**	**5.1**	**3.7**	**2.3**	**N/A**	**0**

Licensee Comments:

12/09: RCS Activity data for this PI was not required to be taken in November 2009 because Waterford 3 was shutdown for Refueling Outage 16.

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	0.030	0.030	0.030	0.030	N/A	0.060	0.050	0.060	0.140	0.120	0.110	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	**0.3**	**0.3**	**0.3**	**0.3**	**N/A**	**0.6**	**0.5**	**0.6**	**1.4**	**1.2**	**1.1**	**1.1**
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	0.110	0.110	0.110	0.140	0.120	0.110	0.150	0.130	0.120	0.130	N/A	0.060
Technical specification limit	10.0	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**	**1.4**	**1.2**	**1.1**	**1.5**	**1.3**	**1.2**	**1.3**	**N/A**	**0.6**

Licensee Comments:

12/09: RCS leak rate was not required to be taken in November 2009 because Waterford 3 was shutdown for Refueling Outage 16.

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	37.0	8.0	38.0	28.0	44.0	41.0	18.0	4.0
Total opportunities	38.0	8.0	40.0	28.0	44.0	42.0	18.0	4.0
Indicator value	**96.6%**	**97.8%**	**97.0%**	**97.2%**	**97.9%**	**97.6%**	**98.3%**	**98.2%**

Licensee Comments: none

ERO Drill Participation

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	126.0	112.0	120.0	124.0	120.0	123.0	125.0	124.0
Total Key personnel	133.0	121.0	126.0	128.0	124.0	132.0	131.0	131.0
Indicator value	**94.7%**	**92.6%**	**95.2%**	**96.9%**	**96.8%**	**93.2%**	**95.4%**	**94.7%**

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	432	431	432	431	432	437	438	438
Total sirens-tests	432	432	432	432	432	438	438	438
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	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

Waterford 3

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	1349.8	1991.0	2209.0	2159.0	2184.0	2208.0	1162.1	2159.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/08	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10
Unplanned power changes	1.0	0	0	0	0	0	1.0	0
Critical hours	1349.8	1991.0	2209.0	2159.0	2184.0	2208.0	1162.1	2159.0
Indicator value	**0.9**	**0.9**	**0.9**	**0.9**	**0**	**0**	**0.9**	**0.9**

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

Licensee Comments:

1Q/10: License Event Report 2009-006-00 was submitted to report a functional failure on the Main Feedwater Isolation Valves.

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**2Q/08**	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**
UAI (ΔCDF)	-1.50E-07	-1.50E-07	-1.50E-07	2.40E-08	3.30E-08	3.30E-08	4.80E-08	9.60E-09
URI (ΔCDF)	-2.00E-06	-1.80E-06	-1.60E-06	-1.60E-06	-1.70E-06	-1.70E-06	-6.10E-07	-6.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.15E-06**	**-1.95E-06**	**-1.75E-06**	**-1.58E-06**	**-1.67E-06**	**-1.67E-06**	**-5.62E-07**	**-5.90E-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)	-8.00E-09	-1.17E-08	-2.00E-08	-2.00E-08	-1.43E-08	-1.71E-08	-8.11E-09	-8.11E-09
URI (ΔCDF)	-1.50E-07	3.12E-08	2.26E-08	1.85E-08	1.82E-07	1.71E-07	1.22E-07	1.21E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.58E-07**	**1.90E-08**	**2.70E-09**	**-1.50E-09**	**1.70E-07**	**1.50E-07**	**1.10E-07**	**1.10E-07**

Licensee Comments:

1Q/10: It has been determined that HPSI Pump B failed to automatically start during testing in September 2008. An MSPI failure record was entered for that failure and a change file is submitted in first quarter 2010. This change did not result in a color change to the PI. The pump was capable of being manually started.

4Q/09: The Waterford 3 MSPI Basis Document was revised to reflect changes from a PRA model update. The update included improvements in the technical adequacy of the model and consistency with Regulatory Guide 1.200 as well as changes to ensure consistency with the as-built, as-operated plant. This PRA model update was also a periodic update to incorporate updated (plant-specific as appropriate) initiating events and component failure data.

3Q/08: It has been determined that HPSI Pump B failed to automatically start during testing in September 2008. An MSPI failure record was entered for that failure and a change file is submitted in first quarter 2010 which affects previously submitted data. This change did not result in a color change to the PI. The pump was capable of being manually started.

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)	-2.40E-08	-2.40E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-1.00E-08	-3.35E-08
URI (ΔCDF)	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-3.00E-07	-2.98E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.04E-07**	**-3.04E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.30E-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)	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-3.00E-12	-1.30E-12	6.06E-12
URI (ΔCDF)	-5.20E-12	-5.50E-12	-5.50E-12	-5.50E-12	-5.60E-12	-5.50E-12	-1.20E-11	-1.20E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.00E-12**	**-8.30E-12**	**-8.30E-12**	**-8.30E-12**	**-8.40E-12**	**-8.50E-12**	**-1.33E-11**	**-5.90E-12**

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)	6.40E-08	2.50E-09	2.50E-09	3.20E-09	3.20E-09	1.50E-09	2.00E-09	2.02E-09
URI (ΔCDF)	-2.10E-08	-1.90E-08	-1.90E-08	-2.00E-08	-2.10E-08	-2.00E-08	-1.70E-08	-1.55E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.30E-08**	**-1.65E-08**	**-1.65E-08**	**-1.68E-08**	**-1.78E-08**	**-1.85E-08**	**-1.50E-08**	**-1.30E-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	0.004460	N/A	0.000925	0.001530	0.001860	0.001340	0.001840	0.004060	0.012800	0.015700	0.017900	0.021400
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.4**	**N/A**	**0.1**	**0.2**	**0.2**	**0.1**	**0.2**	**0.4**	**1.3**	**1.6**	**1.8**	**2.1**

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	0.025800	0.030800	0.030900	0.028700	0.051100	0.037000	0.022700	N/A	0.000289	0.000510	0.000332	0.000592
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**2.6**	**3.1**	**3.1**	**2.9**	**5.1**	**3.7**	**2.3**	**N/A**	**0**	**0.1**	**0**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/08**	**5/08**	**6/08**	**7/08**	**8/08**	**9/08**	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**
Maximum leakage	0.030	N/A	0.060	0.050	0.060	0.140	0.120	0.110	0.110	0.110	0.110	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	**0.3**	**N/A**	**0.6**	**0.5**	**0.6**	**1.4**	**1.2**	**1.1**	**1.1**	**1.1**	**1.1**	**1.1**
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	0.140	0.120	0.110	0.150	0.130	0.120	0.130	N/A	0.060	0.130	0.080	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.4**	**1.2**	**1.1**	**1.5**	**1.3**	**1.2**	**1.3**	**N/A**	**0.6**	**1.3**	**0.8**	**0.7**

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	8.0	38.0	28.0	44.0	41.0	18.0	4.0	23.0
Total opportunities	8.0	40.0	28.0	44.0	42.0	18.0	4.0	24.0
Indicator value	**97.8%**	**97.0%**	**97.2%**	**97.9%**	**97.6%**	**98.3%**	**98.2%**	**98.1%**

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	112.0	120.0	124.0	120.0	123.0	125.0	124.0	126.0
Total Key personnel	121.0	126.0	128.0	124.0	132.0	131.0	131.0	128.0
Indicator value	**92.6%**	**95.2%**	**96.9%**	**96.8%**	**93.2%**	**95.4%**	**94.7%**	**98.4%**

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	431	432	431	432	437	438	438	438
Total sirens-tests	432	432	432	432	438	438	438	438
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	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

Waterford 3

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	0
Critical hours	1991.0	2209.0	2159.0	2184.0	2208.0	1162.1	2159.0	2184.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	1991.0	2209.0	2159.0	2184.0	2208.0	1162.1	2159.0	2184.0
Indicator value	**0.9**	**0.9**	**0.9**	**0**	**0**	**0.9**	**0.9**	**0.9**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
Safety System Functional Failures	0	0	0	0	0	0	1	2
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**1**	**3**

Licensee Comments:

2Q/10: LER 2010-003-00 reported on 5/20/10 that a worn fuel oil supply line on the A Emergency Diesel Generator would not support 30 days of operation. While this condition existed, the opposite train Emergency Diesel Generator had been voluntarily taken out of service. LER 2008-004-01 reported on 6/2/10 that a loose intercell connection on the B Battery existed for several days and during that same period, safety systems in the A Train were taken out of service.

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	3Q/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	-1.50E-07	-1.50E-07	2.40E-08	3.30E-08	3.30E-08	4.80E-08	9.60E-09	9.10E-09
URI (ΔCDF)	-1.80E-06	-1.60E-06	-1.60E-06	-1.70E-06	-1.70E-06	-6.10E-07	-6.00E-07	-5.98E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.95E-06**	**-1.75E-06**	**-1.58E-06**	**-1.67E-06**	**-1.67E-06**	**-5.62E-07**	**-5.90E-07**	**-5.90E-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)	-1.17E-08	-2.00E-08	-2.00E-08	-1.43E-08	-1.71E-08	-8.11E-09	-8.11E-09	-2.98E-10
URI (ΔCDF)	3.12E-08	2.26E-08	1.85E-08	1.82E-07	1.71E-07	1.22E-07	1.21E-07	1.23E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.90E-08**	**2.70E-09**	**-1.50E-09**	**1.70E-07**	**1.50E-07**	**1.10E-07**	**1.10E-07**	**1.20E-07**

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)	-2.40E-08	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-1.00E-08	-3.35E-08	-3.35E-08
URI (ΔCDF)	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-3.00E-07	-2.98E-07	-2.98E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.04E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.30E-07**	**-3.30E-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/08	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10
UAI (ΔCDF)	-2.80E-12	-2.80E-12	-2.80E-12	-2.80E-12	-3.00E-12	-1.30E-12	6.06E-12	1.17E-11
URI (ΔCDF)	-5.50E-12	-5.50E-12	-5.50E-12	-5.60E-12	-5.50E-12	-1.20E-11	-1.20E-11	-1.20E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-12**	**-8.30E-12**	**-8.30E-12**	**-8.40E-12**	**-8.50E-12**	**-1.33E-11**	**-5.90E-12**	**-2.50E-13**

Licensee Comments: none

Mitigating Systems Performance Index, Cooling Water Systems

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

Notes

Mitigating Systems Performance Index, Cooling Water Systems	**3Q/08**	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**
UAI (ΔCDF)	2.50E-09	2.50E-09	3.20E-09	3.20E-09	1.50E-09	2.00E-09	2.02E-09	3.13E-09
URI (ΔCDF)	-1.90E-08	-1.90E-08	-2.00E-08	-2.10E-08	-2.00E-08	-1.70E-08	-1.55E-08	-1.45E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.65E-08**	**-1.65E-08**	**-1.68E-08**	**-1.78E-08**	**-1.85E-08**	**-1.50E-08**	**-1.30E-08**	**-1.10E-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	0.001530	0.001860	0.001340	0.001840	0.004060	0.012800	0.015700	0.017900	0.021400	0.025800	0.030800	0.030900
Technical specification limit	1.0	1.0	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**	**0.1**	**0.2**	**0.4**	**1.3**	**1.6**	**1.8**	**2.1**	**2.6**	**3.1**	**3.1**

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	0.028700	0.051100	0.037000	0.022700	N/A	0.000289	0.000510	0.000332	0.000592	0.000407	0.001150	0.000694
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**2.9**	**5.1**	**3.7**	**2.3**	**N/A**	**0**	**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	**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	0.050	0.060	0.140	0.120	0.110	0.110	0.110	0.110	0.110	0.140	0.120	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	**0.5**	**0.6**	**1.4**	**1.2**	**1.1**	**1.1**	**1.1**	**1.1**	**1.1**	**1.4**	**1.2**	**1.1**
Reactor Coolant System Leakage	**7/09**	**8/09**	**9/09**	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**
Maximum leakage	0.150	0.130	0.120	0.130	N/A	0.060	0.130	0.080	0.070	0.070	0.070	0.100
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.5**	**1.3**	**1.2**	**1.3**	**N/A**	**0.6**	**1.3**	**0.8**	**0.7**	**0.7**	**0.7**	**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	38.0	28.0	44.0	41.0	18.0	4.0	23.0	55.0
Total opportunities	40.0	28.0	44.0	42.0	18.0	4.0	24.0	58.0
Indicator value	**97.0%**	**97.2%**	**97.9%**	**97.6%**	**98.3%**	**98.2%**	**98.1%**	**97.3%**

Licensee Comments: none

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	120.0	124.0	120.0	123.0	125.0	124.0	126.0	122.0
Total Key personnel	126.0	128.0	124.0	132.0	131.0	131.0	128.0	123.0
Indicator value	**95.2%**	**96.9%**	**96.8%**	**93.2%**	**95.4%**	**94.7%**	**98.4%**	**99.2%**

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	432	431	432	437	438	438	438	438
Total sirens-tests	432	432	432	438	438	438	438	438
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	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

Waterford 3

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	0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	1162.1	2159.0	2184.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.9**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
Unplanned power changes	0	0	0	0	1.0	0	0	0
Critical hours	2209.0	2159.0	2184.0	2208.0	1162.1	2159.0	2184.0	2208.0
Indicator value	**0.9**	**0.9**	**0**	**0**	**0.9**	**0.9**	**0.9**	**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	0	0	0	0	0	1	2	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**1**	**3**	**3**

Licensee Comments: none

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**4Q/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**
UAI (ΔCDF)	-1.50E-07	2.40E-08	3.30E-08	3.30E-08	4.80E-08	9.60E-09	9.10E-09	7.37E-10
URI (ΔCDF)	-1.60E-06	-1.60E-06	-1.70E-06	-1.70E-06	-6.10E-07	-6.00E-07	-5.98E-07	-5.96E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.75E-06**	**-1.58E-06**	**-1.67E-06**	**-1.67E-06**	**-5.62E-07**	**-5.90E-07**	**-5.90E-07**	**-6.00E-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/08	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10
UAI (ΔCDF)	-2.00E-08	-2.00E-08	-1.43E-08	-1.71E-08	-8.11E-09	-8.11E-09	-2.98E-10	-2.98E-10
URI (ΔCDF)	2.26E-08	1.85E-08	1.82E-07	1.71E-07	1.22E-07	1.21E-07	1.23E-07	1.24E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.70E-09**	**-1.50E-09**	**1.70E-07**	**1.50E-07**	**1.10E-07**	**1.10E-07**	**1.20E-07**	**1.20E-07**

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)	-3.00E-08	-3.00E-08	-3.00E-08	-3.00E-08	-1.00E-08	-3.35E-08	-3.35E-08	-7.46E-09
URI (ΔCDF)	-2.80E-07	-2.80E-07	-2.80E-07	-2.80E-07	-3.00E-07	-2.98E-07	-2.98E-07	-2.98E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.30E-07**	**-3.30E-07**	**-3.10E-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/08**	**1Q/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**
UAI (ΔCDF)	-2.80E-12	-2.80E-12	-2.80E-12	-3.00E-12	-1.30E-12	6.06E-12	1.17E-11	2.07E-11
URI (ΔCDF)	-5.50E-12	-5.50E-12	-5.60E-12	-5.50E-12	-1.20E-11	-1.20E-11	-1.20E-11	-1.19E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-12**	**-8.30E-12**	**-8.40E-12**	**-8.50E-12**	**-1.33E-11**	**-5.90E-12**	**-2.50E-13**	**8.80E-12**

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)	2.50E-09	3.20E-09	3.20E-09	1.50E-09	2.00E-09	2.02E-09	3.13E-09	1.03E-08
URI (ΔCDF)	-1.90E-08	-2.00E-08	-2.10E-08	-2.00E-08	-1.70E-08	-1.55E-08	-1.45E-08	-1.25E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.65E-08**	**-1.68E-08**	**-1.78E-08**	**-1.85E-08**	**-1.50E-08**	**-1.30E-08**	**-1.10E-08**	**-2.20E-09**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**10/08**	**11/08**	**12/08**	**1/09**	**2/09**	**3/09**	**4/09**	**5/09**	**6/09**	**7/09**	**8/09**	**9/09**
Maximum activity	0.001840	0.004060	0.012800	0.015700	0.017900	0.021400	0.025800	0.030800	0.030900	0.028700	0.051100	0.037000
Technical specification limit	1.0	1.0	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**	**1.3**	**1.6**	**1.8**	**2.1**	**2.6**	**3.1**	**3.1**	**2.9**	**5.1**	**3.7**

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	0.022700	N/A	0.000289	0.000510	0.000332	0.000592	0.000407	0.001150	0.000694	0.000724	0.008380	0.000762
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**2.3**	**N/A**	**0**	**0.1**	**0**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0.8**	**0.1**

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	0.120	0.110	0.110	0.110	0.110	0.110	0.140	0.120	0.110	0.150	0.130	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	**1.2**	**1.1**	**1.1**	**1.1**	**1.1**	**1.1**	**1.4**	**1.2**	**1.1**	**1.5**	**1.3**	**1.2**
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	0.130	N/A	0.060	0.130	0.080	0.070	0.070	0.070	0.100	0.110	0.100	0.100
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.3**	**N/A**	**0.6**	**1.3**	**0.8**	**0.7**	**0.7**	**0.7**	**1.0**	**1.1**	**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	28.0	44.0	41.0	18.0	4.0	23.0	55.0	52.0
Total opportunities	28.0	44.0	42.0	18.0	4.0	24.0	58.0	52.0
Indicator value	**97.2%**	**97.9%**	**97.6%**	**98.3%**	**98.2%**	**98.1%**	**97.3%**	**98.1%**

Licensee Comments: none

ERO Drill Participation

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	124.0	120.0	123.0	125.0	124.0	126.0	122.0	123.0
Total Key personnel	128.0	124.0	132.0	131.0	131.0	128.0	123.0	123.0
Indicator value	**96.9%**	**96.8%**	**93.2%**	**95.4%**	**94.7%**	**98.4%**	**99.2%**	**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	431	432	437	438	438	438	438	438
Total sirens-tests	432	432	438	438	438	438	438	438
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	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

Waterford 3

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	0	0	0
Critical hours	2159.0	2184.0	2208.0	1162.1	2159.0	2184.0	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.9**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Unplanned power changes	0	0	0	1.0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	1162.1	2159.0	2184.0	2208.0	2209.0
Indicator value	**0.9**	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.9**	**0**

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	0	1	2	0	0
Indicator value	**0**	**0**	**0**	**0**	**1**	**3**	**3**	**3**

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)	2.40E-08	3.30E-08	3.30E-08	4.80E-08	9.60E-09	9.10E-09	7.37E-10	1.20E-07
URI (ΔCDF)	-1.60E-06	-1.70E-06	-1.70E-06	-6.10E-07	-6.00E-07	-5.98E-07	-5.96E-07	-5.96E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.58E-06**	**-1.67E-06**	**-1.67E-06**	**-5.62E-07**	**-5.90E-07**	**-5.90E-07**	**-6.00E-07**	**-4.80E-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)	-2.00E-08	-1.43E-08	-1.71E-08	-8.11E-09	-8.11E-09	-2.98E-10	-2.98E-10	2.92E-09
URI (ΔCDF)	1.85E-08	1.82E-07	1.71E-07	1.22E-07	1.21E-07	1.23E-07	1.24E-07	1.29E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-09**	**1.70E-07**	**1.50E-07**	**1.10E-07**	**1.10E-07**	**1.20E-07**	**1.20E-07**	**1.30E-07**

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)	-3.00E-08	-3.00E-08	-3.00E-08	-1.00E-08	-3.35E-08	-3.35E-08	-7.46E-09	-3.68E-08
URI (ΔCDF)	-2.80E-07	-2.80E-07	-2.80E-07	-3.00E-07	-2.98E-07	-2.98E-07	-2.98E-07	-3.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.30E-07**	**-3.30E-07**	**-3.10E-07**	**-3.40E-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/09**	**2Q/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**
UAI (ΔCDF)	-2.80E-12	-2.80E-12	-3.00E-12	-1.30E-12	6.06E-12	1.17E-11	2.07E-11	1.98E-11
URI (ΔCDF)	-5.50E-12	-5.60E-12	-5.50E-12	-1.20E-11	-1.20E-11	-1.20E-11	-1.19E-11	-1.18E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.30E-12**	**-8.40E-12**	**-8.50E-12**	**-1.33E-11**	**-5.90E-12**	**-2.50E-13**	**8.80E-12**	**7.90E-12**

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)	3.20E-09	3.20E-09	1.50E-09	2.00E-09	2.02E-09	3.13E-09	1.03E-08	1.16E-08
URI (ΔCDF)	-2.00E-08	-2.10E-08	-2.00E-08	-1.70E-08	-1.55E-08	-1.45E-08	-1.25E-08	-1.29E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.68E-08**	**-1.78E-08**	**-1.85E-08**	**-1.50E-08**	**-1.30E-08**	**-1.10E-08**	**-2.20E-09**	**-1.20E-09**

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	0.015700	0.017900	0.021400	0.025800	0.030800	0.030900	0.028700	0.051100	0.037000	0.022700	N/A	0.000289
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**1.6**	**1.8**	**2.1**	**2.6**	**3.1**	**3.1**	**2.9**	**5.1**	**3.7**	**2.3**	**N/A**	**0**

Reactor Coolant System Activity	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**
Maximum activity	0.000510	0.000332	0.000592	0.000407	0.001150	0.000694	0.000724	0.008380	0.000762	0.000788	0.000759	0.000813
Technical specification limit	1.0	1.0	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**	**0.8**	**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	1/09	2/09	3/09	4/09	5/09	6/09	7/09	8/09	9/09	10/09	11/09	12/09
Maximum leakage	0.110	0.110	0.110	0.140	0.120	0.110	0.150	0.130	0.120	0.130	N/A	0.060
Technical specification limit	10.0	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**	**1.4**	**1.2**	**1.1**	**1.5**	**1.3**	**1.2**	**1.3**	**N/A**	**0.6**
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	0.130	0.080	0.070	0.070	0.070	0.100	0.110	0.100	0.100	0.100	0.140	0.130
Technical specification limit	10.0	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**	**0.8**	**0.7**	**0.7**	**0.7**	**1.0**	**1.1**	**1.0**	**1.0**	**1.0**	**1.4**	**1.3**

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	44.0	41.0	18.0	4.0	23.0	55.0	52.0	28.0
Total opportunities	44.0	42.0	18.0	4.0	24.0	58.0	52.0	28.0
Indicator value	**97.9%**	**97.6%**	**98.3%**	**98.2%**	**98.1%**	**97.3%**	**98.1%**	**98.1%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/09	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10
Participating Key personnel	120.0	123.0	125.0	124.0	126.0	122.0	123.0	125.0
Total Key personnel	124.0	132.0	131.0	131.0	128.0	123.0	123.0	125.0
Indicator value	**96.8%**	**93.2%**	**95.4%**	**94.7%**	**98.4%**	**99.2%**	**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	432	437	438	438	438	438	438	437
Total sirens-tests	432	438	438	438	438	438	438	438
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**99.9%**

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

Waterford 3

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	0	0	0	0
Critical hours	2184.0	2208.0	1162.1	2159.0	2184.0	2208.0	2209.0	2159.0
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.9**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Unplanned power changes	0	0	1.0	0	0	0	0	0
Critical hours	2184.0	2208.0	1162.1	2159.0	2184.0	2208.0	2209.0	2159.0
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.9**	**0.9**	**0**	**0**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	2Q/09	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11
Safety System Functional Failures	0	0	0	1	2	0	0	0
Indicator value	**0**	**0**	**0**	**1**	**3**	**3**	**3**	**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/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**
UAI (ΔCDF)	3.30E-08	3.30E-08	4.80E-08	9.60E-09	9.10E-09	7.37E-10	1.20E-07	7.11E-08
URI (ΔCDF)	-1.70E-06	-1.70E-06	-6.10E-07	-6.00E-07	-5.98E-07	-5.96E-07	-5.96E-07	-5.91E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.67E-06**	**-1.67E-06**	**-5.62E-07**	**-5.90E-07**	**-5.90E-07**	**-6.00E-07**	**-4.80E-07**	**-5.20E-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)	-1.43E-08	-1.71E-08	-8.11E-09	-8.11E-09	-2.98E-10	-2.98E-10	2.92E-09	1.05E-08
URI (ΔCDF)	1.82E-07	1.71E-07	1.22E-07	1.21E-07	1.23E-07	1.24E-07	1.29E-07	1.32E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.70E-07**	**1.50E-07**	**1.10E-07**	**1.10E-07**	**1.20E-07**	**1.20E-07**	**1.30E-07**	**1.40E-07**

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)	-3.00E-08	-3.00E-08	-1.00E-08	-3.35E-08	-3.35E-08	-7.46E-09	-3.68E-08	-4.30E-08
URI (ΔCDF)	-2.80E-07	-2.80E-07	-3.00E-07	-2.98E-07	-2.98E-07	-2.98E-07	-3.00E-07	-2.99E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-07**	**-3.10E-07**	**-3.10E-07**	**-3.30E-07**	**-3.30E-07**	**-3.10E-07**	**-3.40E-07**	**-3.40E-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/09**	**3Q/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**
UAI (ΔCDF)	-2.80E-12	-3.00E-12	-1.30E-12	6.06E-12	1.17E-11	2.07E-11	1.98E-11	1.98E-11
URI (ΔCDF)	-5.60E-12	-5.50E-12	-1.20E-11	-1.20E-11	-1.20E-11	-1.19E-11	-1.18E-11	-1.20E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.40E-12**	**-8.50E-12**	**-1.33E-11**	**-5.90E-12**	**-2.50E-13**	**8.80E-12**	**7.90E-12**	**7.80E-12**

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)	3.20E-09	1.50E-09	2.00E-09	2.02E-09	3.13E-09	1.03E-08	1.16E-08	1.20E-08
URI (ΔCDF)	-2.10E-08	-2.00E-08	-1.70E-08	-1.55E-08	-1.45E-08	-1.25E-08	-1.29E-08	-2.62E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.78E-08**	**-1.85E-08**	**-1.50E-08**	**-1.30E-08**	**-1.10E-08**	**-2.20E-09**	**-1.20E-09**	**-1.40E-08**

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	0.025800	0.030800	0.030900	0.028700	0.051100	0.037000	0.022700	N/A	0.000289	0.000510	0.000332	0.000592
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**2.6**	**3.1**	**3.1**	**2.9**	**5.1**	**3.7**	**2.3**	**N/A**	**0**	**0.1**	**0**	**0.1**

Reactor Coolant System Activity	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**
Maximum activity	0.000407	0.001150	0.000694	0.000724	0.008380	0.000762	0.000788	0.000759	0.000813	0.000814	0.000482	0.000278
Technical specification limit	1.0	1.0	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**	**0.8**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.140	0.120	0.110	0.150	0.130	0.120	0.130	N/A	0.060	0.130	0.080	0.070
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.4**	**1.2**	**1.1**	**1.5**	**1.3**	**1.2**	**1.3**	**N/A**	**0.6**	**1.3**	**0.8**	**0.7**
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	0.070	0.070	0.100	0.110	0.100	0.100	0.100	0.140	0.130	0.210	0.200	0.170
Technical specification limit	10.0	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**	**1.0**	**1.1**	**1.0**	**1.0**	**1.0**	**1.4**	**1.3**	**2.1**	**2.0**	**1.7**

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	41.0	18.0	4.0	23.0	55.0	52.0	28.0	24.0
Total opportunities	42.0	18.0	4.0	24.0	58.0	52.0	28.0	26.0
Indicator value	**97.6%**	**98.3%**	**98.2%**	**98.1%**	**97.3%**	**98.1%**	**98.1%**	**97.2%**

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	123.0	125.0	124.0	126.0	122.0	123.0	125.0	101.0
Total Key personnel	132.0	131.0	131.0	128.0	123.0	123.0	125.0	102.0
Indicator value	**93.2%**	**95.4%**	**94.7%**	**98.4%**	**99.2%**	**100.0%**	**100.0%**	**99.0%**

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	437	438	438	438	438	438	437	438
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**99.9%**	**99.9%**

Licensee Comments: none

Occupational Exposure Control Effectiveness

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	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

Waterford 3

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	0	0	0	0	0
Critical hours	2208.0	1162.1	2159.0	2184.0	2208.0	2209.0	2159.0	1341.8
Indicator value	**0**	**0.9**	**0.9**	**0.9**	**0.9**	**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/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Unplanned power changes	0	1.0	0	0	0	0	0	1.0
Critical hours	2208.0	1162.1	2159.0	2184.0	2208.0	2209.0	2159.0	1341.8
Indicator value	**0**	**0.9**	**0.9**	**0.9**	**0.9**	**0**	**0**	**0.9**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Safety System Functional Failures (PWR)

Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Safety System Functional Failures	0	0	1	2	0	0	0	1
Indicator value	**0**	**0**	**1**	**3**	**3**	**3**	**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/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	3.30E-08	4.80E-08	9.60E-09	9.10E-09	7.37E-10	1.20E-07	7.11E-08	1.37E-07
URI (ΔCDF)	-1.70E-06	-6.10E-07	-6.00E-07	-5.98E-07	-5.96E-07	-5.96E-07	-5.91E-07	-3.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.67E-06**	**-5.62E-07**	**-5.90E-07**	**-5.90E-07**	**-6.00E-07**	**-4.80E-07**	**-5.20E-07**	**-1.60E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
UAI (ΔCDF)	-1.71E-08	-8.11E-09	-8.11E-09	-2.98E-10	-2.98E-10	2.92E-09	1.05E-08	1.06E-08
URI (ΔCDF)	1.71E-07	1.22E-07	1.21E-07	1.23E-07	1.24E-07	1.29E-07	1.32E-07	1.29E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.50E-07**	**1.10E-07**	**1.10E-07**	**1.20E-07**	**1.20E-07**	**1.30E-07**	**1.40E-07**	**1.40E-07**

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)	-3.00E-08	-1.00E-08	-3.35E-08	-3.35E-08	-7.46E-09	-3.68E-08	-4.30E-08	-4.30E-08
URI (ΔCDF)	-2.80E-07	-3.00E-07	-2.98E-07	-2.98E-07	-2.98E-07	-3.00E-07	-2.99E-07	-2.96E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-07**	**-3.10E-07**	**-3.30E-07**	**-3.30E-07**	**-3.10E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-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/09**	**4Q/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**
UAI (ΔCDF)	-3.00E-12	-1.30E-12	6.06E-12	1.17E-11	2.07E-11	1.98E-11	1.98E-11	2.14E-11
URI (ΔCDF)	-5.50E-12	-1.20E-11	-1.20E-11	-1.20E-11	-1.19E-11	-1.18E-11	-1.20E-11	-1.18E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-8.50E-12**	**-1.33E-11**	**-5.90E-12**	**-2.50E-13**	**8.80E-12**	**7.90E-12**	**7.80E-12**	**9.50E-12**

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)	1.50E-09	2.00E-09	2.02E-09	3.13E-09	1.03E-08	1.16E-08	1.20E-08	1.20E-08
URI (ΔCDF)	-2.00E-08	-1.70E-08	-1.55E-08	-1.45E-08	-1.25E-08	-1.29E-08	-2.62E-08	-2.63E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.85E-08**	**-1.50E-08**	**-1.30E-08**	**-1.10E-08**	**-2.20E-09**	**-1.20E-09**	**-1.40E-08**	**-1.40E-08**

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	0.028700	0.051100	0.037000	0.022700	N/A	0.000289	0.000510	0.000332	0.000592	0.000407	0.001150	0.000694
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**2.9**	**5.1**	**3.7**	**2.3**	**N/A**	**0**	**0.1**	**0**	**0.1**	**0**	**0.1**	**0.1**

Reactor Coolant System Activity	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**
Maximum activity	0.000724	0.008380	0.000762	0.000788	0.000759	0.000813	0.000814	0.000482	0.000278	0.000292	0.000248	0.000418
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.8**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.150	0.130	0.120	0.130	N/A	0.060	0.130	0.080	0.070	0.070	0.070	0.100
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.5**	**1.3**	**1.2**	**1.3**	**N/A**	**0.6**	**1.3**	**0.8**	**0.7**	**0.7**	**0.7**	**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	0.110	0.100	0.100	0.100	0.140	0.130	0.210	0.200	0.170	0.170	0.060	0.020
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.1**	**1.0**	**1.0**	**1.0**	**1.4**	**1.3**	**2.1**	**2.0**	**1.7**	**1.7**	**0.6**	**0.2**

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	18.0	4.0	23.0	55.0	52.0	28.0	24.0	12.0
Total opportunities	18.0	4.0	24.0	58.0	52.0	28.0	26.0	12.0
Indicator value	**98.3%**	**98.2%**	**98.1%**	**97.3%**	**98.1%**	**98.1%**	**97.2%**	**97.3%**

Licensee Comments: none

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	3Q/09	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11
Participating Key personnel	125.0	124.0	126.0	122.0	123.0	125.0	101.0	93.0
Total Key personnel	131.0	131.0	128.0	123.0	123.0	125.0	102.0	94.0
Indicator value	**95.4%**	**94.7%**	**98.4%**	**99.2%**	**100.0%**	**100.0%**	**99.0%**	**98.9%**

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	438	438	438	438	438	437	438	438
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**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/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:

2Q/11: Revised the June 2011 RETS/ODCM Radiological Effluent occurrence from 1 to 0 to correct a typographical error. There was no RETS/ODCM Radiological Effluent occurrence in the 2nd quarter 2011. This change does not affect the PI color, which remains green.

Security information not publicly available.

Last Modified: August 16, 2011

Waterford 3

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	0	0	0	0	0	0
Critical hours	1162.1	2159.0	2184.0	2208.0	2209.0	2159.0	1341.8	2208.0
Indicator value	**0.9**	**0.9**	**0.9**	**0.9**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Unplanned power changes	1.0	0	0	0	0	0	1.0	0
Critical hours	1162.1	2159.0	2184.0	2208.0	2209.0	2159.0	1341.8	2208.0
Indicator value	**0.9**	**0.9**	**0.9**	**0.9**	**0**	**0**	**0.9**	**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	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/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
Safety System Functional Failures	0	1	2	0	0	0	1	0
Indicator value	**0**	**1**	**3**	**3**	**3**	**2**	**1**	**1**

Licensee Comments:

3Q/11: A change file is being submitted this quarter to provide a Licensee Event Report number for a Safety System Functional Failure that occured in the second quarter of 2011. There is no change to the PI value or color.

2Q/11: There was one Safety System Functional Failure in the 2nd quarter of 2011 reported under License Event Report 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/09**	**1Q/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**
UAI (ΔCDF)	4.80E-08	9.60E-09	9.10E-09	7.37E-10	1.20E-07	7.11E-08	1.37E-07	1.38E-07
URI (ΔCDF)	-6.10E-07	-6.00E-07	-5.98E-07	-5.96E-07	-5.96E-07	-5.91E-07	-3.00E-07	-2.99E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.62E-07**	**-5.90E-07**	**-5.90E-07**	**-6.00E-07**	**-4.80E-07**	**-5.20E-07**	**-1.60E-07**	**-1.60E-07**

Licensee Comments: none

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	4Q/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	-8.11E-09	-8.11E-09	-2.98E-10	-2.98E-10	2.92E-09	1.05E-08	1.06E-08	1.29E-08
URI (ΔCDF)	1.22E-07	1.21E-07	1.23E-07	1.24E-07	1.29E-07	1.32E-07	1.29E-07	2.20E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-07**	**1.10E-07**	**1.20E-07**	**1.20E-07**	**1.30E-07**	**1.40E-07**	**1.40E-07**	**3.50E-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/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	-1.00E-08	-3.35E-08	-3.35E-08	-7.46E-09	-3.68E-08	-4.30E-08	-4.30E-08	-4.30E-08
URI (ΔCDF)	-3.00E-07	-2.98E-07	-2.98E-07	-2.98E-07	-3.00E-07	-2.99E-07	-2.96E-07	-3.02E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-07**	**-3.30E-07**	**-3.30E-07**	**-3.10E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-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/09	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11
UAI (ΔCDF)	-1.30E-12	6.06E-12	1.17E-11	2.07E-11	1.98E-11	1.98E-11	2.14E-11	2.08E-11
URI (ΔCDF)	-1.20E-11	-1.20E-11	-1.20E-11	-1.19E-11	-1.18E-11	-1.20E-11	-1.18E-11	-1.16E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.33E-11**	**-5.90E-12**	**-2.50E-13**	**8.80E-12**	**7.90E-12**	**7.80E-12**	**9.50E-12**	**9.10E-12**

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)	2.00E-09	2.02E-09	3.13E-09	1.03E-08	1.16E-08	1.20E-08	1.20E-08	1.13E-08
URI (ΔCDF)	-1.70E-08	-1.55E-08	-1.45E-08	-1.25E-08	-1.29E-08	-2.62E-08	-2.63E-08	-2.67E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-08**	**-1.30E-08**	**-1.10E-08**	**-2.20E-09**	**-1.20E-09**	**-1.40E-08**	**-1.40E-08**	**-1.50E-08**

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	0.022700	N/A	0.000289	0.000510	0.000332	0.000592	0.000407	0.001150	0.000694	0.000724	0.008380	0.000762
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**2.3**	**N/A**	**0**	**0.1**	**0**	**0.1**	**0**	**0.1**	**0.1**	**0.1**	**0.8**	**0.1**

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	0.000788	0.000759	0.000813	0.000814	0.000482	0.000278	0.000292	0.000248	0.000418	0.000436	0.000424	0.000413
Technical specification limit	1.0	1.0	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**	**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	**10/09**	**11/09**	**12/09**	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**
Maximum leakage	0.130	N/A	0.060	0.130	0.080	0.070	0.070	0.070	0.100	0.110	0.100	0.100
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.3**	**N/A**	**0.6**	**1.3**	**0.8**	**0.7**	**0.7**	**0.7**	**1.0**	**1.1**	**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	0.100	0.140	0.130	0.210	0.200	0.170	0.170	0.060	0.020	0.030	0.050	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	**1.0**	**1.4**	**1.3**	**2.1**	**2.0**	**1.7**	**1.7**	**0.6**	**0.2**	**0.3**	**0.5**	**0.3**

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	4.0	23.0	55.0	52.0	28.0	24.0	12.0	17.0
Total opportunities	4.0	24.0	58.0	52.0	28.0	26.0	12.0	18.0
Indicator value	**98.2%**	**98.1%**	**97.3%**	**98.1%**	**98.1%**	**97.2%**	**97.3%**	**96.8%**

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	124.0	126.0	122.0	123.0	125.0	101.0	93.0	92.0
Total Key personnel	131.0	128.0	123.0	123.0	125.0	102.0	94.0	92.0
Indicator value	**94.7%**	**98.4%**	**99.2%**	**100.0%**	**100.0%**	**99.0%**	**98.9%**	**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	438	438	438	438	437	438	438	437
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**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/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:

2Q/11: Revised the June 2011 RETS/ODCM Radiological Effluent occurrence from 1 to 0 to correct a typographical error. There was no RETS/ODCM Radiological Effluent occurrence in the 2nd quarter 2011. This change does not affect the PI color, which remains green.

Security information not publicly available.

Last Modified: November 29, 2011

Waterford 3

4Q/2011 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	2209.0	2159.0	1341.8	2208.0	2209.0
Indicator value	**0.9**	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Unplanned power changes	0	0	0	0	0	1.0	0	0
Critical hours	2159.0	2184.0	2208.0	2209.0	2159.0	1341.8	2208.0	2209.0
Indicator value	**0.9**	**0.9**	**0.9**	**0**	**0**	**0.9**	**0.9**	**0.9**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Scrams with complications	0	0	0	0	0	0	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/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Safety System Functional Failures	1	2	0	0	0	1	0	1
Indicator value	**1**	**3**	**3**	**3**	**2**	**1**	**1**	**2**

Licensee Comments:

4Q/11: A SSFF associated with the Heat Removal System was reported in Licensee Event Report 2011-005-00.

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)	9.60E-09	9.10E-09	7.37E-10	1.20E-07	7.11E-08	1.37E-07	1.38E-07	1.38E-07
URI (ΔCDF)	-6.00E-07	-5.98E-07	-5.96E-07	-5.96E-07	-5.91E-07	-3.00E-07	-2.99E-07	-2.86E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.90E-07**	**-5.90E-07**	**-6.00E-07**	**-4.80E-07**	**-5.20E-07**	**-1.60E-07**	**-1.60E-07**	**-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	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	-8.11E-09	-2.98E-10	-2.98E-10	2.92E-09	1.05E-08	1.06E-08	1.29E-08	1.29E-08
URI (ΔCDF)	1.21E-07	1.23E-07	1.24E-07	1.29E-07	1.32E-07	1.29E-07	2.20E-08	3.10E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-07**	**1.20E-07**	**1.20E-07**	**1.30E-07**	**1.40E-07**	**1.40E-07**	**3.50E-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	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
UAI (ΔCDF)	-3.35E-08	-3.35E-08	-7.46E-09	-3.68E-08	-4.30E-08	-4.30E-08	-4.30E-08	-4.27E-08
URI (ΔCDF)	-2.98E-07	-2.98E-07	-2.98E-07	-3.00E-07	-2.99E-07	-2.96E-07	-3.02E-07	-3.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.30E-07**	**-3.30E-07**	**-3.10E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-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/10**	**2Q/10**	**3Q/10**	**4Q/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**
UAI (ΔCDF)	6.06E-12	1.17E-11	2.07E-11	1.98E-11	1.98E-11	2.14E-11	2.08E-11	1.61E-12
URI (ΔCDF)	-1.20E-11	-1.20E-11	-1.19E-11	-1.18E-11	-1.20E-11	-1.18E-11	-1.16E-11	-1.16E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.90E-12**	**-2.50E-13**	**8.80E-12**	**7.90E-12**	**7.80E-12**	**9.50E-12**	**9.10E-12**	**-9.90E-12**

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)	2.02E-09	3.13E-09	1.03E-08	1.16E-08	1.20E-08	1.20E-08	1.13E-08	8.18E-09
URI (ΔCDF)	-1.55E-08	-1.45E-08	-1.25E-08	-1.29E-08	-2.62E-08	-2.63E-08	-2.67E-08	-2.59E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**-1.10E-08**	**-2.20E-09**	**-1.20E-09**	**-1.40E-08**	**-1.40E-08**	**-1.50E-08**	**-1.80E-08**

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	0.000510	0.000332	0.000592	0.000407	0.001150	0.000694	0.000724	0.008380	0.000762	0.000788	0.000759	0.000813
Technical specification limit	1.0	1.0	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**	**0.8**	**0.1**	**0.1**	**0.1**	**0.1**
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	0.000814	0.000482	0.000278	0.000292	0.000248	0.000418	0.000436	0.000424	0.000413	0.000307	0.000449	0.000314
Technical specification limit	1.0	1.0	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**	**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	**1/10**	**2/10**	**3/10**	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**
Maximum leakage	0.130	0.080	0.070	0.070	0.070	0.100	0.110	0.100	0.100	0.100	0.140	0.130
Technical specification limit	10.0	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**	**0.8**	**0.7**	**0.7**	**0.7**	**1.0**	**1.1**	**1.0**	**1.0**	**1.0**	**1.4**	**1.3**
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	0.210	0.200	0.170	0.170	0.060	0.020	0.030	0.050	0.030	0.090	0.040	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	**2.1**	**2.0**	**1.7**	**1.7**	**0.6**	**0.2**	**0.3**	**0.5**	**0.3**	**0.9**	**0.4**	**0.4**

Licensee Comments: none

Drill/Exercise Performance

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/10	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11
Successful opportunities	23.0	55.0	52.0	28.0	24.0	12.0	17.0	37.0
Total opportunities	24.0	58.0	52.0	28.0	26.0	12.0	18.0	40.0
Indicator value	**98.1%**	**97.3%**	**98.1%**	**98.1%**	**97.2%**	**97.3%**	**96.8%**	**96.1%**

Licensee Comments: none

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	126.0	122.0	123.0	125.0	101.0	93.0	92.0	97.0
Total Key personnel	128.0	123.0	123.0	125.0	102.0	94.0	92.0	98.0
Indicator value	**98.4%**	**99.2%**	**100.0%**	**100.0%**	**99.0%**	**98.9%**	**100.0%**	**99.0%**

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	438	438	438	437	438	438	437	438
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**99.9%**	**100.0%**	**100.0%**	**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/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

Waterford 3

1Q/2012 Performance Indicators

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2184.0	2208.0	2209.0	2159.0	1341.8	2208.0	2209.0	2183.0
Indicator value	**0.9**	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Unplanned power changes	0	0	0	0	1.0	0	0	1.0
Critical hours	2184.0	2208.0	2209.0	2159.0	1341.8	2208.0	2209.0	2183.0
Indicator value	**0.9**	**0.9**	**0**	**0**	**0.9**	**0.9**	**0.9**	**1.8**

Licensee Comments: none

Unplanned Scrams with Complications

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Scrams with complications	0	0	0	0	0	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/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
Safety System Functional Failures	2	0	0	0	1	0	1	0
Indicator value	**3**	**3**	**3**	**2**	**1**	**1**	**2**	**2**

Licensee Comments:

4Q/11: A SSFF associated with the Heat Removal System was reported in Licensee Event Report 2011-005-00.

3Q/11: A change file is being submitted this quarter to provide a Licensee Event Report number for a Safety System Functional Failure that occured in the second quarter of 2011. There is no change to the PI value or color.

2Q/11: There was one Safety System Functional Failure in the 2nd quarter of 2011 reported under License Event Report 2011-003-00.

2Q/10: LER 2010-003-00 reported on 5/20/10 that a worn fuel oil supply line on the A Emergency Diesel Generator would not support 30 days of operation. While this condition existed, the opposite train Emergency Diesel Generator had been voluntarily taken out of service. LER 2008-004-01 reported on 6/2/10 that a loose intercell connection on the B Battery existed for several days and during that same period, safety systems in the A Train were taken out of service.

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)	9.10E-09	7.37E-10	1.20E-07	7.11E-08	1.37E-07	1.38E-07	1.38E-07	4.65E-08
URI (ΔCDF)	-5.98E-07	-5.96E-07	-5.96E-07	-5.91E-07	-3.00E-07	-2.99E-07	-2.86E-07	-5.47E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.90E-07**	**-6.00E-07**	**-4.80E-07**	**-5.20E-07**	**-1.60E-07**	**-1.60E-07**	**-1.50E-07**	**-5.00E-07**

Licensee Comments:

1Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and is effective with the 1st quarter 2012 MSPI data.

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)	-2.98E-10	-2.98E-10	2.92E-09	1.05E-08	1.06E-08	1.29E-08	1.29E-08	1.74E-09
URI (ΔCDF)	1.23E-07	1.24E-07	1.29E-07	1.32E-07	1.29E-07	2.20E-08	3.10E-08	3.53E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.20E-07**	**1.20E-07**	**1.30E-07**	**1.40E-07**	**1.40E-07**	**3.50E-08**	**4.40E-08**	**3.70E-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	2Q/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	-3.35E-08	-7.46E-09	-3.68E-08	-4.30E-08	-4.30E-08	-4.30E-08	-4.27E-08	-4.27E-08
URI (ΔCDF)	-2.98E-07	-2.98E-07	-3.00E-07	-2.99E-07	-2.96E-07	-3.02E-07	-3.00E-07	-2.96E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.30E-07**	**-3.10E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-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/10	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12
UAI (ΔCDF)	1.17E-11	2.07E-11	1.98E-11	1.98E-11	2.14E-11	2.08E-11	1.61E-12	1.17E-11
URI (ΔCDF)	-1.20E-11	-1.19E-11	-1.18E-11	-1.20E-11	-1.18E-11	-1.16E-11	-1.16E-11	-1.16E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.50E-13**	**8.80E-12**	**7.90E-12**	**7.80E-12**	**9.50E-12**	**9.10E-12**	**-9.90E-12**	**5.10E-14**

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)	3.13E-09	1.03E-08	1.16E-08	1.20E-08	1.20E-08	1.13E-08	8.18E-09	3.38E-08
URI (ΔCDF)	-1.45E-08	-1.25E-08	-1.29E-08	-2.62E-08	-2.63E-08	-2.67E-08	-2.59E-08	-2.54E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-08**	**-2.20E-09**	**-1.20E-09**	**-1.40E-08**	**-1.40E-08**	**-1.50E-08**	**-1.80E-08**	**8.40E-09**

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	0.000407	0.001150	0.000694	0.000724	0.008380	0.000762	0.000788	0.000759	0.000813	0.000814	0.000482	0.000278
Technical specification limit	1.0	1.0	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**	**0.8**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.000292	0.000248	0.000418	0.000436	0.000424	0.000413	0.000307	0.000449	0.000314	0.000499	0.000331	0.000355
Technical specification limit	1.0	1.0	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	**4/10**	**5/10**	**6/10**	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**
Maximum leakage	0.070	0.070	0.100	0.110	0.100	0.100	0.100	0.140	0.130	0.210	0.200	0.170
Technical specification limit	10.0	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**	**1.0**	**1.1**	**1.0**	**1.0**	**1.0**	**1.4**	**1.3**	**2.1**	**2.0**	**1.7**
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	0.170	0.060	0.020	0.030	0.050	0.030	0.090	0.040	0.040	0.030	0.030	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	**1.7**	**0.6**	**0.2**	**0.3**	**0.5**	**0.3**	**0.9**	**0.4**	**0.4**	**0.3**	**0.3**	**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	55.0	52.0	28.0	24.0	12.0	17.0	37.0	36.0
Total opportunities	58.0	52.0	28.0	26.0	12.0	18.0	40.0	36.0
Indicator value	**97.3%**	**98.1%**	**98.1%**	**97.2%**	**97.3%**	**96.8%**	**96.1%**	**96.7%**

Licensee Comments: none

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	122.0	123.0	125.0	101.0	93.0	92.0	97.0	93.0
Total Key personnel	123.0	123.0	125.0	102.0	94.0	92.0	98.0	93.0
Indicator value	**99.2%**	**100.0%**	**100.0%**	**99.0%**	**98.9%**	**100.0%**	**99.0%**	**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	438	438	437	438	438	437	438	438
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**100.0%**	**100.0%**	**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/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:

2Q/11: Revised the June 2011 RETS/ODCM Radiological Effluent occurrence from 1 to 0 to correct a typographical error. There was no RETS/ODCM Radiological Effluent occurrence in the 2nd quarter 2011. This change does not affect the PI color, which remains green.

Security information not publicly available.

Last Modified: April 24, 2012

Waterford 3

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	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	1341.8	2208.0	2209.0	2183.0	2184.0
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Unplanned power changes	0	0	0	1.0	0	0	1.0	1.0
Critical hours	2208.0	2209.0	2159.0	1341.8	2208.0	2209.0	2183.0	2184.0
Indicator value	**0.9**	**0**	**0**	**0.9**	**0.9**	**0.9**	**1.8**	**1.6**

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	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/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
Safety System Functional Failures	0	0	0	1	0	1	0	0
Indicator value	**3**	**3**	**2**	**1**	**1**	**2**	**2**	**1**

Licensee Comments:

4Q/11: A SSFF associated with the Heat Removal System was reported in Licensee Event Report 2011-005-00.

3Q/11: A change file is being submitted this quarter to provide a Licensee Event Report number for a Safety System Functional Failure that occured in the second quarter of 2011. There is no change to the PI value or color.

2Q/11: There was one Safety System Functional Failure in the 2nd quarter of 2011 reported under License Event Report 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)	7.37E-10	1.20E-07	7.11E-08	1.37E-07	1.38E-07	1.38E-07	4.65E-08	1.66E-08
URI (ΔCDF)	-5.96E-07	-5.96E-07	-5.91E-07	-3.00E-07	-2.99E-07	-2.86E-07	-5.47E-07	-5.04E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.00E-07**	**-4.80E-07**	**-5.20E-07**	**-1.60E-07**	**-1.60E-07**	**-1.50E-07**	**-5.00E-07**	**-4.90E-07**

Licensee Comments:

2Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised in April 2012 to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and was effective with the 1st quarter 2012 MSPI data.

1Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and is effective with the 1st quarter 2012 MSPI data.

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)	-2.98E-10	2.92E-09	1.05E-08	1.06E-08	1.29E-08	1.29E-08	1.74E-09	-4.26E-09
URI (ΔCDF)	1.24E-07	1.29E-07	1.32E-07	1.29E-07	2.20E-08	3.10E-08	3.53E-08	-8.97E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.20E-07**	**1.30E-07**	**1.40E-07**	**1.40E-07**	**3.50E-08**	**4.40E-08**	**3.70E-08**	**-9.40E-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	3Q/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	-7.46E-09	-3.68E-08	-4.30E-08	-4.30E-08	-4.30E-08	-4.27E-08	-4.27E-08	-4.30E-08
URI (ΔCDF)	-2.98E-07	-3.00E-07	-2.99E-07	-2.96E-07	-3.02E-07	-3.00E-07	-2.96E-07	-3.00E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-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/10	4Q/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12
UAI (ΔCDF)	2.07E-11	1.98E-11	1.98E-11	2.14E-11	2.08E-11	1.61E-12	1.17E-11	6.30E-12
URI (ΔCDF)	-1.19E-11	-1.18E-11	-1.20E-11	-1.18E-11	-1.16E-11	-1.16E-11	-1.16E-11	-1.15E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.80E-12**	**7.90E-12**	**7.80E-12**	**9.50E-12**	**9.10E-12**	**-9.90E-12**	**5.10E-14**	**-5.20E-12**

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)	1.03E-08	1.16E-08	1.20E-08	1.20E-08	1.13E-08	8.18E-09	3.38E-08	3.69E-08
URI (ΔCDF)	-1.25E-08	-1.29E-08	-2.62E-08	-2.63E-08	-2.67E-08	-2.59E-08	-2.54E-08	-2.02E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.20E-09**	**-1.20E-09**	**-1.40E-08**	**-1.40E-08**	**-1.50E-08**	**-1.80E-08**	**8.40E-09**	**1.70E-08**

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	0.000724	0.008380	0.000762	0.000788	0.000759	0.000813	0.000814	0.000482	0.000278	0.000292	0.000248	0.000418
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0.1**	**0.8**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**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	0.000436	0.000424	0.000413	0.000307	0.000449	0.000314	0.000499	0.000331	0.000355	0.000522	0.000580	0.000657
Technical specification limit	1.0	1.0	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**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/10**	**8/10**	**9/10**	**10/10**	**11/10**	**12/10**	**1/11**	**2/11**	**3/11**	**4/11**	**5/11**	**6/11**
Maximum leakage	0.110	0.100	0.100	0.100	0.140	0.130	0.210	0.200	0.170	0.170	0.060	0.020
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.1**	**1.0**	**1.0**	**1.0**	**1.4**	**1.3**	**2.1**	**2.0**	**1.7**	**1.7**	**0.6**	**0.2**
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	0.030	0.050	0.030	0.090	0.040	0.040	0.030	0.030	0.040	0.040	0.060	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.3**	**0.5**	**0.3**	**0.9**	**0.4**	**0.4**	**0.3**	**0.3**	**0.4**	**0.4**	**0.6**	**0.8**

Licensee Comments: none

Drill/Exercise Performance

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	52.0	28.0	24.0	12.0	17.0	37.0	36.0	62.0
Total opportunities	52.0	28.0	26.0	12.0	18.0	40.0	36.0	62.0
Indicator value	**98.1%**	**98.1%**	**97.2%**	**97.3%**	**96.8%**	**96.1%**	**96.7%**	**97.8%**

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	123.0	125.0	101.0	93.0	92.0	97.0	93.0	94.0
Total Key personnel	123.0	125.0	102.0	94.0	92.0	98.0	93.0	94.0
Indicator value	**100.0%**	**100.0%**	**99.0%**	**98.9%**	**100.0%**	**99.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

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	438	437	438	438	437	438	438	437
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**100.0%**	**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/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	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	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:

2Q/11: Revised the June 2011 RETS/ODCM Radiological Effluent occurrence from 1 to 0 to correct a typographical error. There was no RETS/ODCM Radiological Effluent occurrence in the 2nd quarter 2011. This change does not affect the PI color, which remains green.

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: July 24, 2012

Waterford 3

3Q/2012 Performance Indicators

Licensee's General Comments: none

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	0	0	0	0	0
Critical hours	2209.0	2159.0	1341.8	2208.0	2209.0	2183.0	2184.0	2097.3
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/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Unplanned power changes	0	0	1.0	0	0	1.0	1.0	0
Critical hours	2209.0	2159.0	1341.8	2208.0	2209.0	2183.0	2184.0	2097.3
Indicator value	**0**	**0**	**0.9**	**0.9**	**0.9**	**1.8**	**1.6**	**1.6**

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	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/10	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12
Safety System Functional Failures	0	0	1	0	1	0	1	0
Indicator value	**3**	**2**	**1**	**1**	**2**	**2**	**2**	**2**

Licensee Comments:

3Q/12: A SSFF reported in Licensee Event Report number LER 2012-004-00 was not included in the 2nd quarter 2012 PI data that should have been. A change report is being submitted with the 3rd quarter 2012 data submittal to provide this information. This difference in information has no affect on the PI color, which remains GREEN.

2Q/12: LER 2012-004-00. A SSFF was reported in Licensee Event Report number LER 2012-004-00. This SSFF was not originally reported with the 2nd Quarter 2012 data submittal. This has been enterred into the corrective action program under CR-WF3-2012-5133. There is no affect on the PI color, which remains GREEN.

4Q/11: A SSFF associated with the Heat Removal System was reported in Licensee Event Report 2011-005-00.

3Q/11: A change file is being submitted this quarter to provide a Licensee Event Report number for a Safety System Functional Failure that occured in the second quarter of 2011. There is no change to the PI value or color.

2Q/11: There was one Safety System Functional Failure in the 2nd quarter of 2011 reported under License Event Report 2011-003-00.

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)	1.20E-07	7.11E-08	1.37E-07	1.38E-07	1.38E-07	4.65E-08	1.66E-08	1.76E-08
URI (ΔCDF)	-5.96E-07	-5.91E-07	-3.00E-07	-2.99E-07	-2.86E-07	-5.47E-07	-5.04E-07	-5.01E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.80E-07**	**-5.20E-07**	**-1.60E-07**	**-1.60E-07**	**-1.50E-07**	**-5.00E-07**	**-4.90E-07**	**-4.80E-07**

Licensee Comments:

2Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised in April 2012 to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and was effective with the 1st quarter 2012 MSPI data.

1Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and is effective with the 1st quarter 2012 MSPI data.

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)	2.92E-09	1.05E-08	1.06E-08	1.29E-08	1.29E-08	1.74E-09	-4.26E-09	-4.22E-09
URI (ΔCDF)	1.29E-07	1.32E-07	1.29E-07	2.20E-08	3.10E-08	3.53E-08	-8.97E-08	-8.71E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.30E-07**	**1.40E-07**	**1.40E-07**	**3.50E-08**	**4.40E-08**	**3.70E-08**	**-9.40E-08**	**-9.10E-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)	-3.68E-08	-4.30E-08	-4.30E-08	-4.30E-08	-4.27E-08	-4.27E-08	-4.30E-08	-4.30E-08
URI (ΔCDF)	-3.00E-07	-2.99E-07	-2.96E-07	-3.02E-07	-3.00E-07	-2.96E-07	-3.00E-07	-3.02E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-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/10**	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**
UAI (ΔCDF)	1.98E-11	1.98E-11	2.14E-11	2.08E-11	1.61E-12	1.17E-11	6.30E-12	6.63E-12
URI (ΔCDF)	-1.18E-11	-1.20E-11	-1.18E-11	-1.16E-11	-1.16E-11	-1.16E-11	-1.15E-11	-1.18E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.90E-12**	**7.80E-12**	**9.50E-12**	**9.10E-12**	**-9.90E-12**	**5.10E-14**	**-5.20E-12**	**-5.20E-12**

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)	1.16E-08	1.20E-08	1.20E-08	1.13E-08	8.18E-09	3.38E-08	3.69E-08	4.07E-08
URI (ΔCDF)	-1.29E-08	-2.62E-08	-2.63E-08	-2.67E-08	-2.59E-08	-2.54E-08	-2.56E-08	-2.56E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.20E-09**	**-1.40E-08**	**-1.40E-08**	**-1.50E-08**	**-1.80E-08**	**8.40E-09**	**1.10E-08**	**1.50E-08**

Licensee Comments:

3Q/12: An evaluation of an component event previously reported as a MSPI failure in the 2nd quarter 2012 PI data determined that there was not a failure. A change report is being submitted with the 3rd quarter 2012 data submittal to remove this failure based on final evaluation. This change in information has no affect on the PI color, which remains GREEN.

2Q/12: An evaluation of an component event that was reported as a MSPI failure in the 2nd quarter 2012 PI data based on prelimary information has determined that there was not a failure. A change report is being submitted with the 3rd quarter 2012 data submittal to remove this failure. This change in information has no affect on the PI color, which remains GREEN.

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	0.000788	0.000759	0.000813	0.000814	0.000482	0.000278	0.000292	0.000248	0.000418	0.000436	0.000424	0.000413
Technical specification limit	1.0	1.0	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**	**0**	**0**	**0**	**0**	**0**	**0**

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	0.000307	0.000449	0.000314	0.000499	0.000331	0.000355	0.000522	0.000580	0.000657	0.000634	0.000614	0.000622
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

Licensee Comments: none

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	0.100	0.140	0.130	0.210	0.200	0.170	0.170	0.060	0.020	0.030	0.050	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	**1.0**	**1.4**	**1.3**	**2.1**	**2.0**	**1.7**	**1.7**	**0.6**	**0.2**	**0.3**	**0.5**	**0.3**
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	0.090	0.040	0.040	0.030	0.030	0.040	0.040	0.060	0.080	0.050	0.040	0.020
Technical specification limit	10.0	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**	**0.4**	**0.4**	**0.3**	**0.3**	**0.4**	**0.4**	**0.6**	**0.8**	**0.5**	**0.4**	**0.2**

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	28.0	24.0	12.0	17.0	37.0	36.0	62.0	32.0
Total opportunities	28.0	26.0	12.0	18.0	40.0	36.0	62.0	32.0
Indicator value	**98.1%**	**97.2%**	**97.3%**	**96.8%**	**96.1%**	**96.7%**	**97.8%**	**97.6%**

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	125.0	101.0	93.0	92.0	97.0	93.0	94.0	95.0
Total Key personnel	125.0	102.0	94.0	92.0	98.0	93.0	94.0	95.0
Indicator value	**100.0%**	**99.0%**	**98.9%**	**100.0%**	**99.0%**	**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	437	438	438	437	438	438	437	438
Total sirens-tests	438	438	438	438	438	438	438	438
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	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	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

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:

2Q/11: Revised the June 2011 RETS/ODCM Radiological Effluent occurrence from 1 to 0 to correct a typographical error. There was no RETS/ODCM Radiological Effluent occurrence in the 2nd quarter 2011. This change does not affect the PI color, which remains green.

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

Waterford 3

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	0	0	0	0	0	0
Critical hours	2159.0	1341.8	2208.0	2209.0	2183.0	2184.0	2097.3	383.8
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/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned power changes	0	1.0	0	0	1.0	1.0	0	0
Critical hours	2159.0	1341.8	2208.0	2209.0	2183.0	2184.0	2097.3	383.8
Indicator value	**0**	**0.9**	**0.9**	**0.9**	**1.8**	**1.6**	**1.6**	**2.0**

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	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/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Safety System Functional Failures	0	1	0	1	0	1	0	1
Indicator value	**2**	**1**	**1**	**2**	**2**	**2**	**2**	**2**

Licensee Comments:

3Q/12: A SSFF reported in Licensee Event Report number LER 2012-004-00 was not included in the 2nd quarter 2012 PI data that should have been. A change report is being submitted with the 3rd quarter 2012 data submittal to provide this information. This difference in information has no affect on the PI color, which remains GREEN.

2Q/12: LER 2012-004-00. A SSFF was reported in Licensee Event Report number LER 2012-004-00. This SSFF was not originally reported with the 2nd Quarter 2012 data submittal. This has been enterred into the corrective action program under CR-WF3-2012-5133. There is no affect on the PI color, which remains GREEN.

4Q/11: A SSFF associated with the Heat Removal System was reported in Licensee Event Report 2011-005-00.

3Q/11: A change file is being submitted this quarter to provide a Licensee Event Report number for a Safety System Functional Failure that occured in the second quarter of 2011. There is no change to the PI value or color.

2Q/11: There was one Safety System Functional Failure in the 2nd quarter of 2011 reported under License Event Report 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)	7.11E-08	1.37E-07	1.38E-07	1.38E-07	4.65E-08	1.66E-08	1.76E-08	-2.66E-09
URI (ΔCDF)	-5.91E-07	-3.00E-07	-2.99E-07	-2.86E-07	-5.47E-07	-5.04E-07	-5.01E-07	-4.87E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-07**	**-1.60E-07**	**-1.60E-07**	**-1.50E-07**	**-5.00E-07**	**-4.90E-07**	**-4.80E-07**	**-4.90E-07**

Licensee Comments:

2Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised in April 2012 to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and was effective with the 1st quarter 2012 MSPI data.

1Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and is effective with the 1st quarter 2012 MSPI data.

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)	1.05E-08	1.06E-08	1.29E-08	1.29E-08	1.74E-09	-4.26E-09	-4.22E-09	-5.25E-09
URI (ΔCDF)	1.32E-07	1.29E-07	2.20E-08	3.10E-08	3.53E-08	-8.97E-08	-8.71E-08	-9.13E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.40E-07**	**1.40E-07**	**3.50E-08**	**4.40E-08**	**3.70E-08**	**-9.40E-08**	**-9.10E-08**	**-9.70E-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	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**
UAI (ΔCDF)	-4.30E-08	-4.30E-08	-4.30E-08	-4.27E-08	-4.27E-08	-4.30E-08	-4.30E-08	-3.12E-08
URI (ΔCDF)	-2.99E-07	-2.96E-07	-3.02E-07	-3.00E-07	-2.96E-07	-3.00E-07	-3.02E-07	-2.92E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.20E-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	**1Q/11**	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**
UAI (ΔCDF)	1.98E-11	2.14E-11	2.08E-11	1.61E-12	1.17E-11	6.30E-12	6.63E-12	-5.00E-12
URI (ΔCDF)	-1.20E-11	-1.18E-11	-1.16E-11	-1.16E-11	-1.16E-11	-1.15E-11	-1.18E-11	-1.17E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**7.80E-12**	**9.50E-12**	**9.10E-12**	**-9.90E-12**	**5.10E-14**	**-5.20E-12**	**-5.20E-12**	**-1.70E-11**

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)	1.20E-08	1.20E-08	1.13E-08	8.18E-09	3.38E-08	3.69E-08	4.07E-08	4.12E-08
URI (ΔCDF)	-2.62E-08	-2.63E-08	-2.67E-08	-2.59E-08	-2.54E-08	-2.56E-08	-2.56E-08	-3.89E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.40E-08**	**-1.50E-08**	**-1.80E-08**	**8.40E-09**	**1.10E-08**	**1.50E-08**	**2.30E-09**

Licensee Comments:

3Q/12: An evaluation of an component event previously reported as a MSPI failure in the 2nd quarter 2012 PI data determined that there was not a failure. A change report is being submitted with the 3rd quarter 2012 data submittal to remove this failure based on final evaluation. This change in information has no affect on the PI color, which remains GREEN.

2Q/12: An evaluation of an component event that was reported as a MSPI failure in the 2nd quarter 2012 PI data based on prelimary information has determined that there was not a failure. A change report is being submitted with the 3rd quarter 2012 data submittal to remove this failure. This change in information has no affect on the PI color, which remains GREEN.

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	0.000814	0.000482	0.000278	0.000292	0.000248	0.000418	0.000436	0.000424	0.000413	0.000307	0.000449	0.000314
Technical specification limit	1.0	1.0	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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**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	0.000499	0.000331	0.000355	0.000522	0.000580	0.000657	0.000634	0.000614	0.000622	0.000671	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**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**N/A**

Licensee Comments: none

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	0.210	0.200	0.170	0.170	0.060	0.020	0.030	0.050	0.030	0.090	0.040	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	**2.1**	**2.0**	**1.7**	**1.7**	**0.6**	**0.2**	**0.3**	**0.5**	**0.3**	**0.9**	**0.4**	**0.4**
Reactor Coolant System Leakage	**1/12**	**2/12**	**3/12**	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**
Maximum leakage	0.030	0.030	0.040	0.040	0.060	0.080	0.050	0.040	0.020	0.020	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	**0.3**	**0.3**	**0.4**	**0.4**	**0.6**	**0.8**	**0.5**	**0.4**	**0.2**	**0.2**	**N/A**	**N/A**

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	24.0	12.0	17.0	37.0	36.0	62.0	32.0	0
Total opportunities	26.0	12.0	18.0	40.0	36.0	62.0	32.0	0
Indicator value	**97.2%**	**97.3%**	**96.8%**	**96.1%**	**96.7%**	**97.8%**	**97.6%**	**97.3%**

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	101.0	93.0	92.0	97.0	93.0	94.0	95.0	96.0
Total Key personnel	102.0	94.0	92.0	98.0	93.0	94.0	95.0	96.0
Indicator value	**99.0%**	**98.9%**	**100.0%**	**99.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments: none

Alert & Notification System

Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful siren-tests	438	438	437	438	438	437	438	438
Total sirens-tests	438	438	438	438	438	438	438	438
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	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	1	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**	**1**	**1**	**2**

Licensee Comments:

4Q/12: The high radiation area occurrence reported in the 4th Quarter 2012 data submittal has been conservatively reported while a FAQ is developed based on other approved FAQs that address similar situations.

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:

2Q/11: Revised the June 2011 RETS/ODCM Radiological Effluent occurrence from 1 to 0 to correct a typographical error. There was no RETS/ODCM Radiological Effluent occurrence in the 2nd quarter 2011. This change does not affect the PI color, which remains green.

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 23, 2013

Waterford 3

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	0	0	0	0	0	0	1.0
Critical hours	1341.8	2208.0	2209.0	2183.0	2184.0	2097.3	383.8	1726.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**1.1**

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	1.0	0	0	1.0	1.0	0	0	0
Critical hours	1341.8	2208.0	2209.0	2183.0	2184.0	2097.3	383.8	1726.0
Indicator value	**0.9**	**0.9**	**0.9**	**1.8**	**1.6**	**1.6**	**2.0**	**1.1**

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	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/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
Safety System Functional Failures	1	0	1	0	1	0	1	0
Indicator value	**1**	**1**	**2**	**2**	**2**	**2**	**2**	**2**

Licensee Comments:

3Q/12: A SSFF reported in Licensee Event Report number LER 2012-004-00 was not included in the 2nd quarter 2012 PI data that should have been. A change report is being submitted with the 3rd quarter 2012 data submittal to provide this information. This difference in information has no affect on the PI color, which remains GREEN.

2Q/12: LER 2012-004-00. A SSFF was reported in Licensee Event Report number LER 2012-004-00. This SSFF was not originally reported with the 2nd Quarter 2012 data submittal. This has been enterred into the corrective action program under CR-WF3-2012-5133. There is no affect on the PI color, which remains GREEN.

4Q/11: A SSFF associated with the Heat Removal System was reported in Licensee Event Report 2011-005-00.

3Q/11: A change file is being submitted this quarter to provide a Licensee Event Report number for a Safety System Functional Failure that occured in the second quarter of 2011. There is no change to the PI value or color.

2Q/11: There was one Safety System Functional Failure in the 2nd quarter of 2011 reported under License Event Report 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)	1.37E-07	1.38E-07	1.38E-07	4.65E-08	1.66E-08	1.76E-08	-2.66E-09	-3.60E-09
URI (ΔCDF)	-3.00E-07	-2.99E-07	-2.86E-07	-5.47E-07	-5.04E-07	-5.01E-07	-4.87E-07	-4.77E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-07**	**-1.60E-07**	**-1.50E-07**	**-5.00E-07**	**-4.90E-07**	**-4.80E-07**	**-4.90E-07**	**-4.80E-07**

Licensee Comments:

2Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised in April 2012 to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and was effective with the 1st quarter 2012 MSPI data.

1Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and is effective with the 1st quarter 2012 MSPI data.

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)	1.06E-08	1.29E-08	1.29E-08	1.74E-09	-4.26E-09	-4.22E-09	-5.25E-09	-5.10E-09
URI (ΔCDF)	1.29E-07	2.20E-08	3.10E-08	3.53E-08	-8.97E-08	-8.71E-08	-9.13E-08	-9.23E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.40E-07**	**3.50E-08**	**4.40E-08**	**3.70E-08**	**-9.40E-08**	**-9.10E-08**	**-9.70E-08**	**-9.70E-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	**2Q/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**
UAI (ΔCDF)	-4.30E-08	-4.30E-08	-4.27E-08	-4.27E-08	-4.30E-08	-4.30E-08	-3.12E-08	1.62E-08
URI (ΔCDF)	-2.96E-07	-3.02E-07	-3.00E-07	-2.96E-07	-3.00E-07	-3.02E-07	-2.92E-07	-3.06E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.20E-07**	**-2.90E-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/11**	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**
UAI (ΔCDF)	2.14E-11	2.08E-11	1.61E-12	1.17E-11	6.30E-12	6.63E-12	-5.00E-12	-4.89E-12
URI (ΔCDF)	-1.18E-11	-1.16E-11	-1.16E-11	-1.16E-11	-1.15E-11	-1.18E-11	-1.17E-11	-1.19E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.50E-12**	**9.10E-12**	**-9.90E-12**	**5.10E-14**	**-5.20E-12**	**-5.20E-12**	**-1.70E-11**	**-1.70E-11**

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)	1.20E-08	1.13E-08	8.18E-09	3.38E-08	3.69E-08	4.07E-08	4.12E-08	4.25E-08
URI (ΔCDF)	-2.63E-08	-2.67E-08	-2.59E-08	-2.54E-08	-2.56E-08	-2.56E-08	-3.89E-08	-3.86E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-08**	**-1.50E-08**	**-1.80E-08**	**8.40E-09**	**1.10E-08**	**1.50E-08**	**2.30E-09**	**3.90E-09**

Licensee Comments:

3Q/12: An evaluation of an component event previously reported as a MSPI failure in the 2nd quarter 2012 PI data determined that there was not a failure. A change report is being submitted with the 3rd quarter 2012 data submittal to remove this failure based on final evaluation. This change in information has no affect on the PI color, which remains GREEN.

2Q/12: An evaluation of an component event that was reported as a MSPI failure in the 2nd quarter 2012 PI data based on prelimary information has determined that there was not a failure. A change report is being submitted with the 3rd quarter 2012 data submittal to remove this failure. This change in information has no affect on the PI color, which remains GREEN.

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	0.000292	0.000248	0.000418	0.000436	0.000424	0.000413	0.000307	0.000449	0.000314	0.000499	0.000331	0.000355
Technical specification limit	1.0	1.0	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	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**
Maximum activity	0.000522	0.000580	0.000657	0.000634	0.000614	0.000622	0.000671	N/A	N/A	0.000103	0.000187	0.000201
Technical specification limit	1.0	1.0	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**	**N/A**	**0**	**0**	**0**

Licensee Comments: none

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	0.170	0.060	0.020	0.030	0.050	0.030	0.090	0.040	0.040	0.030	0.030	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	**1.7**	**0.6**	**0.2**	**0.3**	**0.5**	**0.3**	**0.9**	**0.4**	**0.4**	**0.3**	**0.3**	**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	0.040	0.060	0.080	0.050	0.040	0.020	0.020	N/A	N/A	0.020	0.020	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	**0.4**	**0.6**	**0.8**	**0.5**	**0.4**	**0.2**	**0.2**	**N/A**	**N/A**	**0.2**	**0.2**	**0.3**

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	12.0	17.0	37.0	36.0	62.0	32.0	0	23.0
Total opportunities	12.0	18.0	40.0	36.0	62.0	32.0	0	24.0
Indicator value	**97.3%**	**96.8%**	**96.1%**	**96.7%**	**97.8%**	**97.6%**	**97.3%**	**97.8%**

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	93.0	92.0	97.0	93.0	94.0	95.0	96.0	98.0
Total Key personnel	94.0	92.0	98.0	93.0	94.0	95.0	96.0	98.0
Indicator value	**98.9%**	**100.0%**	**99.0%**	**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	438	437	438	438	437	438	438	438
Total sirens-tests	438	438	438	438	438	438	438	438
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	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13
High radiation area occurrences	0	0	0	0	1	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**	**1**	**1**	**2**	**2**

Licensee Comments:

4Q/12: The high radiation area occurrence reported in the 4th Quarter 2012 data submittal has been conservatively reported while a FAQ is developed based on other approved FAQs that address similar situations.

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:

2Q/11: Revised the June 2011 RETS/ODCM Radiological Effluent occurrence from 1 to 0 to correct a typographical error. There was no RETS/ODCM Radiological Effluent occurrence in the 2nd quarter 2011. This change does not affect the PI color, which remains green.

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

Waterford 3

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	0	0	0	0	0	0	1.0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	2097.3	383.8	1726.0	2069.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**1.1**	**1.1**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Unplanned power changes	0	0	1.0	1.0	0	0	0	0
Critical hours	2208.0	2209.0	2183.0	2184.0	2097.3	383.8	1726.0	2069.0
Indicator value	**0.9**	**0.9**	**1.8**	**1.6**	**1.6**	**2.0**	**1.1**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Scrams with complications	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/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
Safety System Functional Failures	0	1	0	1	0	1	0	0
Indicator value	**1**	**2**	**2**	**2**	**2**	**2**	**2**	**1**

Licensee Comments:

3Q/12: A SSFF reported in Licensee Event Report number LER 2012-004-00 was not included in the 2nd quarter 2012 PI data that should have been. A change report is being submitted with the 3rd quarter 2012 data submittal to provide this information. This difference in information has no affect on the PI color, which remains GREEN.

2Q/12: LER 2012-004-00. A SSFF was reported in Licensee Event Report number LER 2012-004-00. This SSFF was not originally reported with the 2nd Quarter 2012 data submittal. This has been enterred into the corrective action program under CR-WF3-2012-5133. There is no affect on the PI color, which remains GREEN.

4Q/11: A SSFF associated with the Heat Removal System was reported in Licensee Event Report 2011-005-00.

3Q/11: A change file is being submitted this quarter to provide a Licensee Event Report number for a Safety System Functional Failure that occured in the second quarter of 2011. There is no change to the PI value or color.

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**3Q/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**
UAI (ΔCDF)	1.38E-07	1.38E-07	4.65E-08	1.66E-08	1.76E-08	-2.66E-09	-3.60E-09	1.19E-07
URI (ΔCDF)	-2.99E-07	-2.86E-07	-5.47E-07	-5.04E-07	-5.01E-07	-4.87E-07	-4.77E-07	-4.76E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-07**	**-1.50E-07**	**-5.00E-07**	**-4.90E-07**	**-4.80E-07**	**-4.90E-07**	**-4.80E-07**	**-3.60E-07**

Licensee Comments:

2Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised in April 2012 to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and was effective with the 1st quarter 2012 MSPI data.

1Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and is effective with the 1st quarter 2012 MSPI data.

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)	1.29E-08	1.29E-08	1.74E-09	-4.26E-09	-4.22E-09	-5.25E-09	-5.10E-09	-1.30E-08
URI (ΔCDF)	2.20E-08	3.10E-08	3.53E-08	-8.97E-08	-8.71E-08	-9.13E-08	-9.23E-08	-9.29E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.50E-08**	**4.40E-08**	**3.70E-08**	**-9.40E-08**	**-9.10E-08**	**-9.70E-08**	**-9.70E-08**	**-1.10E-07**

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)	-4.30E-08	-4.27E-08	-4.27E-08	-4.30E-08	-4.30E-08	-3.12E-08	1.62E-08	1.55E-08
URI (ΔCDF)	-3.02E-07	-3.00E-07	-2.96E-07	-3.00E-07	-3.02E-07	-2.92E-07	-3.06E-07	-3.06E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.20E-07**	**-2.90E-07**	**-2.90E-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/11**	**4Q/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**
UAI (ΔCDF)	2.08E-11	1.61E-12	1.17E-11	6.30E-12	6.63E-12	-5.00E-12	-4.89E-12	-1.07E-11
URI (ΔCDF)	-1.16E-11	-1.16E-11	-1.16E-11	-1.15E-11	-1.18E-11	-1.17E-11	-1.19E-11	-1.18E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.10E-12**	**-9.90E-12**	**5.10E-14**	**-5.20E-12**	**-5.20E-12**	**-1.70E-11**	**-1.70E-11**	**-2.30E-11**

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)	1.13E-08	8.18E-09	3.38E-08	3.69E-08	4.07E-08	4.12E-08	4.25E-08	4.15E-08
URI (ΔCDF)	-2.67E-08	-2.59E-08	-2.54E-08	-2.56E-08	-2.56E-08	-3.89E-08	-3.86E-08	-3.98E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-08**	**-1.80E-08**	**8.40E-09**	**1.10E-08**	**1.50E-08**	**2.30E-09**	**3.90E-09**	**1.70E-09**

Licensee Comments:

3Q/12: An evaluation of an component event previously reported as a MSPI failure in the 2nd quarter 2012 PI data determined that there was not a failure. A change report is being submitted with the 3rd quarter 2012 data submittal to remove this failure based on final evaluation. This change in information has no affect on the PI color, which remains GREEN.

2Q/12: An evaluation of an component event that was reported as a MSPI failure in the 2nd quarter 2012 PI data based on prelimary information has determined that there was not a failure. A change report is being submitted with the 3rd quarter 2012 data submittal to remove this failure. This change in information has no affect on the PI color, which remains GREEN.

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	0.000436	0.000424	0.000413	0.000307	0.000449	0.000314	0.000499	0.000331	0.000355	0.000522	0.000580	0.000657
Technical specification limit	1.0	1.0	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**	**0.1**	**0.1**	**0.1**

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	0.000634	0.000614	0.000622	0.000671	N/A	N/A	0.000103	0.000187	0.000201	0.000221	0.000211	0.000246
Technical specification limit	1.0	1.0	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**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

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	0.030	0.050	0.030	0.090	0.040	0.040	0.030	0.030	0.040	0.040	0.060	0.080
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.3**	**0.5**	**0.3**	**0.9**	**0.4**	**0.4**	**0.3**	**0.3**	**0.4**	**0.4**	**0.6**	**0.8**
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	0.050	0.040	0.020	0.020	N/A	N/A	0.020	0.020	0.030	0.030	0.040	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	**0.5**	**0.4**	**0.2**	**0.2**	**N/A**	**N/A**	**0.2**	**0.2**	**0.3**	**0.3**	**0.4**	**0.4**

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	17.0	37.0	36.0	62.0	32.0	0	23.0	46.0
Total opportunities	18.0	40.0	36.0	62.0	32.0	0	24.0	48.0
Indicator value	**96.8%**	**96.1%**	**96.7%**	**97.8%**	**97.6%**	**97.3%**	**97.8%**	**97.3%**

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	92.0	97.0	93.0	94.0	95.0	96.0	98.0	100.0
Total Key personnel	92.0	98.0	93.0	94.0	95.0	96.0	98.0	100.0
Indicator value	**100.0%**	**99.0%**	**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	437	438	438	437	438	438	438	438
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13
High radiation area occurrences	0	0	0	1	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**	**1**	**1**	**2**	**2**	**1**

Licensee Comments:

4Q/12: The high radiation area occurrence reported in the 4th Quarter 2012 data submittal has been conservatively reported while a FAQ is developed based on other approved FAQs that address similar situations.

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

Waterford 3

3Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned scrams	0	0	0	0	0	1.0	0	0
Critical hours	2209.0	2183.0	2184.0	2097.3	383.8	1726.0	2069.0	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**1.1**	**1.1**	**1.1**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Unplanned power changes	0	1.0	1.0	0	0	0	0	0
Critical hours	2209.0	2183.0	2184.0	2097.3	383.8	1726.0	2069.0	2208.0
Indicator value	**0.9**	**1.8**	**1.6**	**1.6**	**2.0**	**1.1**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**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/11	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13
Safety System Functional Failures	1	0	1	0	1	0	0	2
Indicator value	**2**	**2**	**2**	**2**	**2**	**2**	**1**	**3**

Licensee Comments:

3Q/13: LER 2013-003-00 submitted in July 2013. LER 2013-005-00 submitted in September 2013.

3Q/12: A SSFF reported in Licensee Event Report number LER 2012-004-00 was not included in the 2nd quarter 2012 PI data that should have been. A change report is being submitted with the 3rd quarter 2012 data submittal to provide this information. This difference in information has no affect on the PI color, which remains GREEN.

2Q/12: LER 2012-004-00. A SSFF was reported in Licensee Event Report number LER 2012-004-00. This SSFF was not originally reported with the 2nd Quarter 2012 data submittal. This has been enterred into the corrective action program under CR-WF3-2012-5133. There is no affect on the PI color, which remains GREEN.

4Q/11: A SSFF associated with the Heat Removal System was reported in Licensee Event Report 2011-005-00.

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)	1.38E-07	4.65E-08	1.66E-08	1.76E-08	-2.66E-09	-3.60E-09	1.19E-07	1.29E-07
URI (ΔCDF)	-2.86E-07	-5.47E-07	-5.04E-07	-5.01E-07	-4.87E-07	-4.77E-07	-1.11E-07	-1.04E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.50E-07**	**-5.00E-07**	**-4.90E-07**	**-4.80E-07**	**-4.90E-07**	**-4.80E-07**	**8.00E-09**	**2.50E-08**

Licensee Comments:

3Q/13: Added a failure report for Emergency Diesel Generator A that occured in April 2013. Caused by failure of both Emergency Generator A starting air systems due to gasket leaks. Air compressor A1 and A2 gaskets were replaced which restored operability. The PI color is unaffected by this change and remains green.

2Q/13: Added a failure report for Emergency Diesel Generator A that occured in April 2013. Caused by failure of both Emergency Generator A starting air systems due to gasket leaks. Air compressor A1 and A2 gaskets were replaced which restored operability. The PI color is unaffected by this change and remains green.

2Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised in April 2012 to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and was effective with the 1st quarter 2012 MSPI data.

1Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and is effective with the 1st

quarter 2012 MSPI data.

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)	1.29E-08	1.74E-09	-4.26E-09	-4.22E-09	-5.25E-09	-5.10E-09	-1.30E-08	-1.30E-08
URI (ΔCDF)	3.10E-08	3.53E-08	-8.97E-08	-8.71E-08	-9.13E-08	-9.23E-08	-9.29E-08	-9.37E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.40E-08**	**3.70E-08**	**-9.40E-08**	**-9.10E-08**	**-9.70E-08**	**-9.70E-08**	**-1.10E-07**	**-1.10E-07**

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)	-4.27E-08	-4.27E-08	-4.30E-08	-4.30E-08	-3.12E-08	1.62E-08	1.55E-08	2.54E-09
URI (ΔCDF)	-3.00E-07	-2.96E-07	-3.00E-07	-3.02E-07	-2.92E-07	-3.06E-07	-3.06E-07	-3.09E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.20E-07**	**-2.90E-07**	**-2.90E-07**	**-3.10E-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/11**	**1Q/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**
UAI (ΔCDF)	1.61E-12	1.17E-11	6.30E-12	6.63E-12	-5.00E-12	-4.89E-12	-1.07E-11	-1.07E-11
URI (ΔCDF)	-1.16E-11	-1.16E-11	-1.15E-11	-1.18E-11	-1.17E-11	-1.19E-11	-1.18E-11	-1.20E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.90E-12**	**5.10E-14**	**-5.20E-12**	**-5.20E-12**	**-1.70E-11**	**-1.70E-11**	**-2.30E-11**	**-2.30E-11**

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)	8.18E-09	3.38E-08	3.69E-08	4.07E-08	4.12E-08	4.25E-08	4.15E-08	4.18E-08
URI (ΔCDF)	-2.59E-08	-2.54E-08	-2.56E-08	-2.56E-08	-3.89E-08	-3.86E-08	-3.98E-08	-4.01E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.80E-08**	**8.40E-09**	**1.10E-08**	**1.50E-08**	**2.30E-09**	**3.90E-09**	**1.70E-09**	**1.70E-09**

Licensee Comments:

3Q/12: An evaluation of an component event previously reported as a MSPI failure in the 2nd quarter 2012 PI data determined that there was not a failure. A change report is being submitted with the 3rd quarter 2012 data submittal to remove this failure based on final evaluation. This change in information has no affect on the PI color, which remains GREEN.

2Q/12: An evaluation of an component event that was reported as a MSPI failure in the 2nd quarter 2012 PI data based on prelimary information has determined that there was not a failure. A change report is being submitted with the 3rd quarter 2012 data submittal to remove this failure. This change in information has no affect on the PI color, which remains GREEN.

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	0.000307	0.000449	0.000314	0.000499	0.000331	0.000355	0.000522	0.000580	0.000657	0.000634	0.000614	0.000622
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**

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	0.000671	N/A	N/A	0.000103	0.000187	0.000201	0.000221	0.000211	0.000246	0.000267	0.000278	0.008540
Technical specification limit	1.0	1.0	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**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**

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	0.090	0.040	0.040	0.030	0.030	0.040	0.040	0.060	0.080	0.050	0.040	0.020
Technical specification limit	10.0	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**	**0.4**	**0.4**	**0.3**	**0.3**	**0.4**	**0.4**	**0.6**	**0.8**	**0.5**	**0.4**	**0.2**
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	0.020	N/A	N/A	0.020	0.020	0.030	0.030	0.040	0.040	0.030	0.030	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	**0.2**	**N/A**	**N/A**	**0.2**	**0.2**	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**	**0.3**	**0.3**

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	37.0	36.0	62.0	32.0	0	21.0	46.0	100.0
Total opportunities	40.0	36.0	62.0	32.0	0	22.0	48.0	102.0
Indicator value	**96.1%**	**96.7%**	**97.8%**	**97.6%**	**97.3%**	**97.7%**	**97.3%**	**97.7%**

Licensee Comments:

3Q/13: A change report was submitted to address a followup Alert classification and its associated communication that were erroneously counted as two opportunities in March 2013. The succcessful to total opportunities for March 2013 was revised from "17 of 18" to "15 of 16." There is no effect on the PI color, which remains green.

1Q/13: A followup Alert classification and its associated communication were erroneously counted as two opportunities in March 2013. The succcessful to total opportunities for March 2013 is revised from "17 of 18" to "15 of 16." There is no effect on the PI color, which remains green.

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	97.0	93.0	94.0	95.0	96.0	98.0	101.0	117.0
Total Key personnel	98.0	93.0	94.0	95.0	96.0	98.0	101.0	117.0
Indicator value	**99.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments:

2Q/13: One additional key ERO member was identified as having been trained and qualified in June 2013 that was not previously counted. The reported participating and total key personnel is revised from "100 of 100" to "101 of 101." There is no effect on the PI color, which remains green.

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	438	438	437	438	438	438	438	438
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**

Licensee Comments:

3Q/13: A change report was submitted to address one additional key ERO member that was identified as having been trained and qualified in June 2013 that was not previously counted. The reported participating and total key personnel was revised from "100 of 100" to "101 of 101." There is no effect on the PI color, which remains green.

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	1	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**	**1**	**1**	**2**	**2**	**1**	**1**

Licensee Comments:

4Q/12: The high radiation area occurrence reported in the 4th Quarter 2012 data submittal has been conservatively reported while a FAQ is developed based on other approved FAQs that address similar situations.

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

Waterford 3

4Q/2013 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned scrams	0	0	0	0	1.0	0	0	0
Critical hours	2183.0	2184.0	2097.3	383.8	1726.0	2069.0	2208.0	2209.0
Indicator value	**0**	**0**	**0**	**0**	**1.1**	**1.1**	**1.1**	**0.9**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Unplanned power changes	1.0	1.0	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2097.3	383.8	1726.0	2069.0	2208.0	2209.0
Indicator value	**1.8**	**1.6**	**1.6**	**2.0**	**1.1**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**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/12	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13
Safety System Functional Failures	0	1	0	1	0	0	2	0
Indicator value	**2**	**2**	**2**	**2**	**2**	**1**	**3**	**2**

Licensee Comments:

3Q/13: LER 2013-003-00 submitted in July 2013. LER 2013-005-00 submitted in September 2013.

3Q/12: A SSFF reported in Licensee Event Report number LER 2012-004-00 was not included in the 2nd quarter 2012 PI data that should have been. A change report is being submitted with the 3rd quarter 2012 data submittal to provide this information. This difference in information has no affect on the PI color, which remains GREEN.

2Q/12: LER 2012-004-00. A SSFF was reported in Licensee Event Report number LER 2012-004-00. This SSFF was not originally reported with the 2nd Quarter 2012 data submittal. This has been enterred into the corrective action program under CR-WF3-2012-5133. There is no affect on the PI color, which remains GREEN.

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)	4.65E-08	1.66E-08	1.76E-08	-2.66E-09	-3.60E-09	1.19E-07	1.29E-07	3.47E-09
URI (ΔCDF)	-5.47E-07	-5.04E-07	-5.01E-07	-4.87E-07	-4.77E-07	-1.11E-07	-1.04E-07	-1.40E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.00E-07**	**-4.90E-07**	**-4.80E-07**	**-4.90E-07**	**-4.80E-07**	**8.00E-09**	**2.50E-08**	**-1.40E-07**

Licensee Comments:

3Q/13: Added a failure report for Emergency Diesel Generator A that occured in April 2013. Caused by failure of both Emergency Generator A starting air systems due to gasket leaks. Air compressor A1 and A2 gaskets were replaced which restored operability. The PI color is unaffected by this change and remains green.

2Q/13: Added a failure report for Emergency Diesel Generator A that occured in April 2013. Caused by failure of both Emergency Generator A starting air systems due to gasket leaks. Air compressor A1 and A2 gaskets were replaced which restored operability. The PI color is unaffected by this change and remains green.

2Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised in April 2012 to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and was effective with the 1st quarter 2012 MSPI data.

1Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and is effective with the 1st

quarter 2012 MSPI data.

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)	1.74E-09	-4.26E-09	-4.22E-09	-5.25E-09	-5.10E-09	-1.30E-08	-1.30E-08	-1.30E-08
URI (ΔCDF)	3.53E-08	-8.97E-08	-8.71E-08	-9.13E-08	-9.23E-08	-9.29E-08	-9.37E-08	-9.36E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.70E-08**	**-9.40E-08**	**-9.10E-08**	**-9.70E-08**	**-9.70E-08**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**

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)	-4.27E-08	-4.30E-08	-4.30E-08	-3.12E-08	1.62E-08	1.55E-08	2.54E-09	2.23E-08
URI (ΔCDF)	-2.96E-07	-3.00E-07	-3.02E-07	-2.92E-07	-3.06E-07	-3.06E-07	-3.09E-07	-3.11E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.40E-07**	**-3.40E-07**	**-3.40E-07**	**-3.20E-07**	**-2.90E-07**	**-2.90E-07**	**-3.10E-07**	**-2.90E-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/12**	**2Q/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**
UAI (ΔCDF)	1.17E-11	6.30E-12	6.63E-12	-5.00E-12	-4.89E-12	-1.07E-11	-1.07E-11	-1.07E-11
URI (ΔCDF)	-1.16E-11	-1.15E-11	-1.18E-11	-1.17E-11	-1.19E-11	-1.18E-11	-1.20E-11	-1.22E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**5.10E-14**	**-5.20E-12**	**-5.20E-12**	**-1.70E-11**	**-1.70E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**

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)	3.38E-08	3.69E-08	4.07E-08	4.12E-08	4.25E-08	4.15E-08	4.18E-08	4.03E-08
URI (ΔCDF)	-2.54E-08	-2.56E-08	-2.56E-08	-3.89E-08	-3.86E-08	-3.98E-08	-4.01E-08	-4.03E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.40E-09**	**1.10E-08**	**1.50E-08**	**2.30E-09**	**3.90E-09**	**1.70E-09**	**1.70E-09**	**-4.20E-11**

Licensee Comments:

3Q/12: An evaluation of an component event previously reported as a MSPI failure in the 2nd quarter 2012 PI data determined that there was not a failure. A change report is being submitted with the 3rd quarter 2012 data submittal to remove this failure based on final evaluation. This change in information has no affect on the PI color, which remains GREEN.

2Q/12: An evaluation of an component event that was reported as a MSPI failure in the 2nd quarter 2012 PI data based on prelimary information has determined that there was not a failure. A change report is being submitted with the 3rd quarter 2012 data submittal to remove this failure. This change in information has no affect on the PI color, which remains GREEN.

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	0.000499	0.000331	0.000355	0.000522	0.000580	0.000657	0.000634	0.000614	0.000622	0.000671	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**	**0**	**0**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**0.1**	**N/A**	**N/A**

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	0.000103	0.000187	0.000201	0.000221	0.000211	0.000246	0.000267	0.000278	0.008540	0.002010	0.001480	0.000664
Technical specification limit	1.0	1.0	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**	**0.9**	**0.2**	**0.1**	**0.1**

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	0.030	0.030	0.040	0.040	0.060	0.080	0.050	0.040	0.020	0.020	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	**0.3**	**0.3**	**0.4**	**0.4**	**0.6**	**0.8**	**0.5**	**0.4**	**0.2**	**0.2**	**N/A**	**N/A**
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	0.020	0.020	0.030	0.030	0.040	0.040	0.030	0.030	0.030	0.070	0.040	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	**0.2**	**0.2**	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**	**0.3**	**0.3**	**0.7**	**0.4**	**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	36.0	62.0	32.0	0	21.0	46.0	100.0	46.0
Total opportunities	36.0	62.0	32.0	0	22.0	48.0	102.0	48.0
Indicator value	**96.7%**	**97.8%**	**97.6%**	**97.3%**	**97.7%**	**97.3%**	**97.7%**	**98.0%**

Licensee Comments:

3Q/13: A change report was submitted to address a followup Alert classification and its associated communication that were erroneously counted as two opportunities in March 2013. The succcessful to total opportunities for March 2013 was revised from "17 of 18" to "15 of 16." There is no effect on the PI color, which remains green.

1Q/13: A followup Alert classification and its associated communication were erroneously counted as two opportunities in March 2013. The succcessful to total opportunities for March 2013 is revised from "17 of 18" to "15 of 16." There is no effect on the PI color, which remains green.

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	93.0	94.0	95.0	96.0	98.0	101.0	117.0	114.0
Total Key personnel	93.0	94.0	95.0	96.0	98.0	101.0	117.0	114.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments:

2Q/13: One additional key ERO member was identified as having been trained and qualified in June 2013 that was not previously counted. The reported participating and total key personnel is revised from "100 of 100" to "101 of 101." There is no effect on the PI color, which remains green.

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	438	437	438	438	438	438	438	437
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**99.9%**

Licensee Comments:

3Q/13: A change report was submitted to address one additional key ERO member that was identified as having been trained and qualified in June 2013 that was not previously counted. The reported participating and total key personnel was revised from "100 of 100" to "101 of 101." There is no effect on the PI color, which remains green.

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	1	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**	**1**	**1**	**2**	**2**	**1**	**1**	**0**

Licensee Comments:

4Q/12: The high radiation area occurrence reported in the 4th Quarter 2012 data submittal has been conservatively reported while a FAQ is developed based on other approved FAQs that address similar situations.

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

Waterford 3

1Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Unplanned scrams	0	0	0	1.0	0	0	0	0
Critical hours	2184.0	2097.3	383.8	1726.0	2069.0	2208.0	2209.0	2159.0
Indicator value	**0**	**0**	**0**	**1.1**	**1.1**	**1.1**	**0.9**	**0**

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	1.0	0	0	0	0	0	0	0
Critical hours	2184.0	2097.3	383.8	1726.0	2069.0	2208.0	2209.0	2159.0
Indicator value	**1.6**	**1.6**	**2.0**	**1.1**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**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/12	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14
Safety System Functional Failures	1	0	1	0	0	2	0	0
Indicator value	**2**	**2**	**2**	**2**	**1**	**3**	**2**	**2**

Licensee Comments:

3Q/13: LER 2013-003-00 submitted in July 2013. LER 2013-005-00 submitted in September 2013.

3Q/12: A SSFF reported in Licensee Event Report number LER 2012-004-00 was not included in the 2nd quarter 2012 PI data that should have been. A change report is being submitted with the 3rd quarter 2012 data submittal to provide this information. This difference in information has no affect on the PI color, which remains GREEN.

2Q/12: LER 2012-004-00. A SSFF was reported in Licensee Event Report number LER 2012-004-00. This SSFF was not originally reported with the 2nd Quarter 2012 data submittal. This has been enterred into the corrective action program under CR-WF3-2012-5133. There is no affect on the PI color, which remains GREEN.

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)	1.66E-08	1.76E-08	-2.66E-09	-3.60E-09	1.19E-07	1.29E-07	3.47E-09	1.79E-07
URI (ΔCDF)	-5.04E-07	-5.01E-07	-4.87E-07	-4.77E-07	-1.11E-07	-1.04E-07	-1.40E-07	-1.34E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.90E-07**	**-4.80E-07**	**-4.90E-07**	**-4.80E-07**	**8.00E-09**	**2.50E-08**	**-1.40E-07**	**4.50E-08**

Licensee Comments:

3Q/13: Added a failure report for Emergency Diesel Generator A that occured in April 2013. Caused by failure of both Emergency Generator A starting air systems due to gasket leaks. Air compressor A1 and A2 gaskets were replaced which restored operability. The PI color is unaffected by this change and remains green.

2Q/13: Added a failure report for Emergency Diesel Generator A that occured in April 2013. Caused by failure of both Emergency Generator A starting air systems due to gasket leaks. Air compressor A1 and A2 gaskets were replaced which restored operability. The PI color is unaffected by this change and remains green.

2Q/12: Changed PRA Parameter(s). The Waterford 3 MSPI Basis Document was revised in April 2012 to change the PRA parameters for the Emergency AC Power System in response to approved FAQs, and was effective with the 1st quarter 2012 MSPI data.

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)	-4.26E-09	-4.22E-09	-5.25E-09	-5.10E-09	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08
URI (ΔCDF)	-8.97E-08	-8.71E-08	-9.13E-08	-9.23E-08	-9.29E-08	-9.37E-08	-9.36E-08	-9.33E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.40E-08**	**-9.10E-08**	**-9.70E-08**	**-9.70E-08**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**

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)	-4.30E-08	-4.30E-08	-3.12E-08	1.62E-08	1.55E-08	2.54E-09	2.23E-08	3.37E-08
URI (ΔCDF)	-3.00E-07	-3.02E-07	-2.92E-07	-3.06E-07	-3.06E-07	-3.09E-07	-3.11E-07	-3.15E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.40E-07**	**-3.40E-07**	**-3.20E-07**	**-2.90E-07**	**-2.90E-07**	**-3.10E-07**	**-2.90E-07**	**-2.80E-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/12**	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**
UAI (ΔCDF)	6.30E-12	6.63E-12	-5.00E-12	-4.89E-12	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11
URI (ΔCDF)	-1.15E-11	-1.18E-11	-1.17E-11	-1.19E-11	-1.18E-11	-1.20E-11	-1.22E-11	-1.23E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-12**	**-5.20E-12**	**-1.70E-11**	**-1.70E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**

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)	3.69E-08	4.07E-08	4.12E-08	4.25E-08	4.15E-08	4.18E-08	4.03E-08	7.05E-08
URI (ΔCDF)	-2.56E-08	-2.56E-08	-3.89E-08	-3.86E-08	-3.98E-08	-4.01E-08	-4.03E-08	-4.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.10E-08**	**1.50E-08**	**2.30E-09**	**3.90E-09**	**1.70E-09**	**1.70E-09**	**-4.20E-11**	**2.80E-08**

Licensee Comments:

3Q/12: An evaluation of an component event previously reported as a MSPI failure in the 2nd quarter 2012 PI data determined that there was not a failure. A change report is being submitted with the 3rd quarter 2012 data submittal to remove this failure based on final evaluation. This change in information has no affect on the PI color, which remains GREEN.

2Q/12: An evaluation of an component event that was reported as a MSPI failure in the 2nd quarter 2012 PI data based on prelimary information has determined that there was not a failure. A change report is being submitted with the 3rd quarter 2012 data submittal to remove this failure. This change in information has no affect on the PI color, which remains GREEN.

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	0.000522	0.000580	0.000657	0.000634	0.000614	0.000622	0.000671	N/A	N/A	0.000103	0.000187	0.000201
Technical specification limit	1.0	1.0	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**	**N/A**	**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	0.000221	0.000211	0.000246	0.000267	0.000278	0.008540	0.002010	0.001480	0.000664	0.000656	0.000954	0.002210
Technical specification limit	1.0	1.0	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**	**0.9**	**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	**4/12**	**5/12**	**6/12**	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**
Maximum leakage	0.040	0.060	0.080	0.050	0.040	0.020	0.020	N/A	N/A	0.020	0.020	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	**0.4**	**0.6**	**0.8**	**0.5**	**0.4**	**0.2**	**0.2**	**N/A**	**N/A**	**0.2**	**0.2**	**0.3**
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	0.030	0.040	0.040	0.030	0.030	0.030	0.070	0.040	0.040	0.030	0.040	0.050
Technical specification limit	10.0	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**	**0.3**	**0.3**	**0.3**	**0.7**	**0.4**	**0.4**	**0.3**	**0.4**	**0.5**

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	62.0	32.0	0	21.0	46.0	100.0	46.0	36.0
Total opportunities	62.0	32.0	0	22.0	48.0	102.0	48.0	36.0
Indicator value	**97.8%**	**97.6%**	**97.3%**	**97.7%**	**97.3%**	**97.7%**	**98.0%**	**98.0%**

Licensee Comments:

3Q/13: A change report was submitted to address a followup Alert classification and its associated communication that were erroneously counted as two opportunities in March 2013. The succcessful to total opportunities for March 2013 was revised from "17 of 18" to "15 of 16." There is no effect on the PI color, which remains green.

1Q/13: A followup Alert classification and its associated communication were erroneously counted as two opportunities in March 2013. The succcessful to total opportunities for March 2013 is revised from "17 of 18" to "15 of 16." There is no effect on the PI color, which remains green.

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	94.0	95.0	96.0	98.0	101.0	117.0	114.0	117.0
Total Key personnel	94.0	95.0	96.0	98.0	101.0	117.0	114.0	117.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments:

2Q/13: One additional key ERO member was identified as having been trained and qualified in June 2013 that was not previously counted. The reported participating and total key personnel is revised from "100 of 100" to "101 of 101." There is no effect on the PI color, which remains green.

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	437	438	438	438	438	438	437	392
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**99.9%**	**97.3%**

Licensee Comments:

3Q/13: A change report was submitted to address one additional key ERO member that was identified as having been trained and qualified in June 2013 that was not previously counted. The reported participating and total key personnel was revised from "100 of 100" to "101 of 101." There is no effect on the PI color, which remains green.

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	1	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	**1**	**1**	**2**	**2**	**1**	**1**	**0**	**0**

Licensee Comments:

4Q/12: The high radiation area occurrence reported in the 4th Quarter 2012 data submittal has been conservatively reported while a FAQ is developed based on other approved FAQs that address similar situations.

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

Waterford 3

2Q/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	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned scrams	0	0	1.0	0	0	0	0	0
Critical hours	2097.3	383.8	1726.0	2069.0	2208.0	2209.0	2159.0	1439.6
Indicator value	**0**	**0**	**1.1**	**1.1**	**1.1**	**0.9**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2097.3	383.8	1726.0	2069.0	2208.0	2209.0	2159.0	1439.6
Indicator value	**1.6**	**2.0**	**1.1**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/12	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

Licensee Comments:

3Q/13: LER 2013-003-00 submitted in July 2013. LER 2013-005-00 submitted in September 2013.

3Q/12: A SSFF reported in Licensee Event Report number LER 2012-004-00 was not included in the 2nd quarter 2012 PI data that should have been. A change report is being submitted with the 3rd quarter 2012 data submittal to provide this information. This difference in information has no affect on the PI color, which remains GREEN.

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)	1.76E-08	-2.66E-09	-3.60E-09	1.19E-07	1.29E-07	3.47E-09	1.79E-07	1.09E-07
URI (ΔCDF)	-5.01E-07	-4.87E-07	-4.77E-07	-1.11E-07	-1.04E-07	-1.40E-07	-1.34E-07	-4.15E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.80E-07**	**-4.90E-07**	**-4.80E-07**	**8.00E-09**	**2.50E-08**	**-1.40E-07**	**4.50E-08**	**-3.10E-07**

Licensee Comments:

3Q/13: Added a failure report for Emergency Diesel Generator A that occured in April 2013. Caused by failure of both Emergency Generator A starting air systems due to gasket leaks. Air compressor A1 and A2 gaskets were replaced which restored operability. The PI color is unaffected by this change and remains green.

2Q/13: Added a failure report for Emergency Diesel Generator A that occured in April 2013. Caused by failure of both Emergency Generator A starting air systems due to gasket leaks. Air compressor A1 and A2 gaskets were replaced which restored operability. The PI color is unaffected by this change and remains green.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**3Q/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**
UAI (ΔCDF)	-4.22E-09	-5.25E-09	-5.10E-09	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08
URI (ΔCDF)	-8.71E-08	-9.13E-08	-9.23E-08	-9.29E-08	-9.37E-08	-9.36E-08	-9.33E-08	-9.13E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.10E-08**	**-9.70E-08**	**-9.70E-08**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.00E-07**

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/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**
UAI (ΔCDF)	-4.30E-08	-3.12E-08	1.62E-08	1.55E-08	2.54E-09	2.23E-08	3.37E-08	3.32E-08
URI (ΔCDF)	-3.02E-07	-2.92E-07	-3.06E-07	-3.06E-07	-3.09E-07	-3.11E-07	-3.15E-07	-3.21E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.40E-07**	**-3.20E-07**	**-2.90E-07**	**-2.90E-07**	**-3.10E-07**	**-2.90E-07**	**-2.80E-07**	**-2.90E-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/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**
UAI (ΔCDF)	6.63E-12	-5.00E-12	-4.89E-12	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11
URI (ΔCDF)	-1.18E-11	-1.17E-11	-1.19E-11	-1.18E-11	-1.20E-11	-1.22E-11	-1.23E-11	-1.25E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.20E-12**	**-1.70E-11**	**-1.70E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**

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/12**	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**
UAI (ΔCDF)	4.07E-08	4.12E-08	4.25E-08	4.15E-08	4.18E-08	4.03E-08	7.05E-08	7.28E-08
URI (ΔCDF)	-2.56E-08	-3.89E-08	-3.86E-08	-3.98E-08	-4.01E-08	-4.03E-08	-4.26E-08	-4.32E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.50E-08**	**2.30E-09**	**3.90E-09**	**1.70E-09**	**1.70E-09**	**-4.20E-11**	**2.80E-08**	**3.00E-08**

Licensee Comments:

3Q/12: An evaluation of an component event previously reported as a MSPI failure in the 2nd quarter 2012 PI data determined that there was not a failure. A change report is being submitted with the 3rd quarter 2012 data submittal to remove this failure based on final evaluation. This change in information has no affect on the PI color, which remains GREEN.

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	0.000634	0.000614	0.000622	0.000671	N/A	N/A	0.000103	0.000187	0.000201	0.000221	0.000211	0.000246
Technical specification limit	1.0	1.0	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**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	7/13	8/13	9/13	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14
Maximum activity	0.000267	0.000278	0.008540	0.002010	0.001480	0.000664	0.000656	0.000954	0.002210	0.100000	0.000160	0.000133
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0**	**0**	**0.9**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**10.0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/12**	**8/12**	**9/12**	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**
Maximum leakage	0.050	0.040	0.020	0.020	N/A	N/A	0.020	0.020	0.030	0.030	0.040	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	**0.5**	**0.4**	**0.2**	**0.2**	**N/A**	**N/A**	**0.2**	**0.2**	**0.3**	**0.3**	**0.4**	**0.4**
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	0.030	0.030	0.030	0.070	0.040	0.040	0.030	0.040	0.050	0.030	0.170	0.130
Technical specification limit	10.0	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**	**0.3**	**0.7**	**0.4**	**0.4**	**0.3**	**0.4**	**0.5**	**0.3**	**1.7**	**1.3**

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	32.0	0	21.0	46.0	100.0	46.0	36.0	46.0
Total opportunities	32.0	0	22.0	48.0	102.0	48.0	36.0	46.0
Indicator value	**97.6%**	**97.3%**	**97.7%**	**97.3%**	**97.7%**	**98.0%**	**98.0%**	**97.9%**

Licensee Comments:

3Q/13: A change report was submitted to address a followup Alert classification and its associated communication that were erroneously counted as two opportunities in March 2013. The succcessful to total opportunities for March 2013 was revised from "17 of 18" to "15 of 16." There is no effect on the PI color, which remains green.

1Q/13: A followup Alert classification and its associated communication were erroneously counted as two opportunities in March 2013. The succcessful to total opportunities for March 2013 is revised from "17 of 18" to "15 of 16." There is no effect on the PI color, which remains green.

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	95.0	96.0	98.0	101.0	117.0	114.0	117.0	113.0
Total Key personnel	95.0	96.0	98.0	101.0	117.0	114.0	117.0	115.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.3%**

Licensee Comments:

2Q/13: One additional key ERO member was identified as having been trained and qualified in June 2013 that was not previously counted. The reported participating and total key personnel is revised from "100 of 100" to "101 of 101." There is no effect on the PI color, which remains green.

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	438	438	438	438	438	437	392	422
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**99.9%**	**97.3%**	**96.4%**

Licensee Comments:

3Q/13: A change report was submitted to address one additional key ERO member that was identified as having been trained and qualified in June 2013 that was not previously counted. The reported participating and total key personnel was revised from "100 of 100" to "101 of 101." There is no effect on the PI color, which remains green.

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	1	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	**1**	**2**	**2**	**1**	**1**	**0**	**0**	**1**

Licensee Comments:

4Q/12: The high radiation area occurrence reported in the 4th Quarter 2012 data submittal has been conservatively reported while a FAQ is developed based on other approved FAQs that address similar situations.

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

Waterford 3

3Q/2014 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned scrams	0	1.0	0	0	0	0	0	0
Critical hours	383.8	1726.0	2069.0	2208.0	2209.0	2159.0	1439.6	2208.0
Indicator value	**0**	**1.1**	**1.1**	**1.1**	**0.9**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	383.8	1726.0	2069.0	2208.0	2209.0	2159.0	1439.6	2208.0
Indicator value	**2.0**	**1.1**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/12	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

Licensee Comments:

3Q/13: LER 2013-003-00 submitted in July 2013. LER 2013-005-00 submitted in September 2013.

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)	-2.66E-09	-3.60E-09	1.19E-07	1.29E-07	3.47E-09	1.79E-07	1.09E-07	1.03E-07
URI (ΔCDF)	-4.87E-07	-4.77E-07	-1.11E-07	-1.04E-07	-1.40E-07	-1.34E-07	-4.15E-07	-4.04E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.90E-07**	**-4.80E-07**	**8.00E-09**	**2.50E-08**	**-1.40E-07**	**4.50E-08**	**-3.10E-07**	**-3.00E-07**

Licensee Comments:

3Q/13: Added a failure report for Emergency Diesel Generator A that occured in April 2013. Caused by failure of both Emergency Generator A starting air systems due to gasket leaks. Air compressor A1 and A2 gaskets were replaced which restored operability. The PI color is unaffected by this change and remains green.

2Q/13: Added a failure report for Emergency Diesel Generator A that occured in April 2013. Caused by failure of both Emergency Generator A starting air systems due to gasket leaks. Air compressor A1 and A2 gaskets were replaced which restored operability. The PI color is unaffected by this change and remains green.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**4Q/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**
UAI (ΔCDF)	-5.25E-09	-5.10E-09	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-9.58E-09
URI (ΔCDF)	-9.13E-08	-9.23E-08	-9.29E-08	-9.37E-08	-9.36E-08	-9.33E-08	-9.13E-08	-9.18E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.70E-08**	**-9.70E-08**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.00E-07**	**-1.00E-07**

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/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**
UAI (ΔCDF)	-3.12E-08	1.62E-08	1.55E-08	2.54E-09	2.23E-08	3.37E-08	3.32E-08	3.32E-08
URI (ΔCDF)	-2.92E-07	-3.06E-07	-3.06E-07	-3.09E-07	-3.11E-07	-3.15E-07	-3.21E-07	-3.14E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.20E-07**	**-2.90E-07**	**-2.90E-07**	**-3.10E-07**	**-2.90E-07**	**-2.80E-07**	**-2.90E-07**	**-2.80E-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/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**
UAI (ΔCDF)	-5.00E-12	-4.89E-12	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11
URI (ΔCDF)	-1.17E-11	-1.19E-11	-1.18E-11	-1.20E-11	-1.22E-11	-1.23E-11	-1.25E-11	-1.23E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-11**	**-1.70E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**

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/12**	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**
UAI (ΔCDF)	4.12E-08	4.25E-08	4.15E-08	4.18E-08	4.03E-08	7.05E-08	7.28E-08	7.34E-08
URI (ΔCDF)	-3.89E-08	-3.86E-08	-3.98E-08	-4.01E-08	-4.03E-08	-4.26E-08	-4.32E-08	-4.30E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.30E-09**	**3.90E-09**	**1.70E-09**	**1.70E-09**	**-4.20E-11**	**2.80E-08**	**3.00E-08**	**3.00E-08**

Licensee Comments: none

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	0.000671	N/A	N/A	0.000103	0.000187	0.000201	0.000221	0.000211	0.000246	0.000267	0.000278	0.008540
Technical specification limit	1.0	1.0	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**	**N/A**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.9**

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	0.002010	0.001480	0.000664	0.000656	0.000954	0.002210	0.100000	0.000160	0.000133	0.000195	0.000185	0.000195
Technical specification limit	1.0	1.0	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**	**10.0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/12**	**11/12**	**12/12**	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**
Maximum leakage	0.020	N/A	N/A	0.020	0.020	0.030	0.030	0.040	0.040	0.030	0.030	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	**0.2**	**N/A**	**N/A**	**0.2**	**0.2**	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**	**0.3**	**0.3**
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	0.070	0.040	0.040	0.030	0.040	0.050	0.030	0.170	0.130	0.130	0.110	0.150
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.7**	**0.4**	**0.4**	**0.3**	**0.4**	**0.5**	**0.3**	**1.7**	**1.3**	**1.3**	**1.1**	**1.5**

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	0	21.0	46.0	100.0	46.0	36.0	46.0	25.0
Total opportunities	0	22.0	48.0	102.0	48.0	36.0	46.0	27.0
Indicator value	**97.3%**	**97.7%**	**97.3%**	**97.7%**	**98.0%**	**98.0%**	**97.9%**	**97.3%**

Licensee Comments:

3Q/13: A change report was submitted to address a followup Alert classification and its associated communication that were erroneously counted as two opportunities in March 2013. The succcessful to total opportunities for March 2013 was revised from "17 of 18" to "15 of 16." There is no effect on the PI color, which remains green.

1Q/13: A followup Alert classification and its associated communication were erroneously counted as two opportunities in March 2013. The succcessful to total opportunities for March 2013 is revised from "17 of 18" to "15 of 16." There is no effect on the PI color, which remains green.

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	96.0	98.0	101.0	117.0	114.0	117.0	113.0	110.0
Total Key personnel	96.0	98.0	101.0	117.0	114.0	117.0	115.0	110.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.3%**	**100.0%**

Licensee Comments:

2Q/13: One additional key ERO member was identified as having been trained and qualified in June 2013 that was not previously counted. The reported participating and total key personnel is revised from "100 of 100" to "101 of 101." There is no effect on the PI color, which remains green.

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	438	438	438	438	437	392	422	424
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**99.9%**	**99.9%**	**100.0%**	**100.0%**	**99.9%**	**97.3%**	**96.4%**	**95.6%**

Licensee Comments:

3Q/13: A change report was submitted to address one additional key ERO member that was identified as having been trained and qualified in June 2013 that was not previously counted. The reported participating and total key personnel was revised from "100 of 100" to "101 of 101." There is no effect on the PI color, which remains green.

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	1	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	**2**	**2**	**1**	**1**	**0**	**0**	**1**	**1**

Licensee Comments:

4Q/12: The high radiation area occurrence reported in the 4th Quarter 2012 data submittal has been conservatively reported while a FAQ is developed based on other approved FAQs that address similar situations.

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

Waterford 3

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	1.0	0	0	0	0	0	0	0
Critical hours	1726.0	2069.0	2208.0	2209.0	2159.0	1439.6	2208.0	2209.0
Indicator value	**1.1**	**1.1**	**1.1**	**0.9**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/13	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	1726.0	2069.0	2208.0	2209.0	2159.0	1439.6	2208.0	2209.0
Indicator value	**1.1**	**0**	**0**	**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	2	0	0	0	0	2
Indicator value	**2**	**1**	**3**	**2**	**2**	**2**	**0**	**2**

Licensee Comments:

4Q/14: LER 2014-003-00 and LER 2014-004-00 both submitted 4th quarter as SSFF.

3Q/14: LER 2014-003-00 a SSFF was reported in Licensing Event Report LER 2014-003-00. This SSFF was originally reported with 3rd quarter 2014 data submittal for time of occurrance in error. This has been entered into the corrrective action program under CR-WF3-2014-6299. The PI color will change from Yellow back to Green.

3Q/13: LER 2013-003-00 submitted in July 2013. LER 2013-005-00 submitted in September 2013.

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)	-3.60E-09	1.19E-07	1.29E-07	3.47E-09	1.79E-07	1.09E-07	1.03E-07	1.32E-07
URI (ΔCDF)	-4.77E-07	-1.11E-07	-1.04E-07	-1.40E-07	-1.34E-07	-4.15E-07	-4.04E-07	-3.95E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.80E-07**	**8.00E-09**	**2.50E-08**	**-1.40E-07**	**4.50E-08**	**-3.10E-07**	**-3.00E-07**	**-2.60E-07**

Licensee Comments:

3Q/13: Added a failure report for Emergency Diesel Generator A that occured in April 2013. Caused by failure of both Emergency Generator A starting air systems due to gasket leaks. Air compressor A1 and A2 gaskets were replaced which restored operability. The PI color is unaffected by this change and remains green.

2Q/13: Added a failure report for Emergency Diesel Generator A that occured in April 2013. Caused by failure of both Emergency Generator A starting air systems due to gasket leaks. Air compressor A1 and A2 gaskets were replaced which restored operability. The PI color is unaffected by this change and remains green.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**1Q/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	-5.10E-09	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-9.58E-09	-9.58E-09
URI (ΔCDF)	-9.23E-08	-9.29E-08	-9.37E-08	-9.36E-08	-9.33E-08	-9.13E-08	-9.18E-08	-9.34E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.70E-08**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**

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/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	1.62E-08	1.55E-08	2.54E-09	2.23E-08	3.37E-08	3.32E-08	3.32E-08	1.84E-08
URI (ΔCDF)	-3.06E-07	-3.06E-07	-3.09E-07	-3.11E-07	-3.15E-07	-3.21E-07	-3.14E-07	-3.19E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.90E-07**	**-2.90E-07**	**-3.10E-07**	**-2.90E-07**	**-2.80E-07**	**-2.90E-07**	**-2.80E-07**	**-3.00E-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/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	-4.89E-12	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11
URI (ΔCDF)	-1.19E-11	-1.18E-11	-1.20E-11	-1.22E-11	-1.23E-11	-1.25E-11	-1.23E-11	-1.24E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.70E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**

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/13**	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**
UAI (ΔCDF)	4.25E-08	4.15E-08	4.18E-08	4.03E-08	7.05E-08	7.28E-08	7.34E-08	7.05E-08
URI (ΔCDF)	-3.86E-08	-3.98E-08	-4.01E-08	-4.03E-08	-4.26E-08	-4.32E-08	-4.30E-08	-4.31E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.90E-09**	**1.70E-09**	**1.70E-09**	**-4.20E-11**	**2.80E-08**	**3.00E-08**	**3.00E-08**	**2.70E-08**

Licensee Comments: none

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	0.000103	0.000187	0.000201	0.000221	0.000211	0.000246	0.000267	0.000278	0.008540	0.002010	0.001480	0.000664
Technical specification limit	1.0	1.0	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**	**0.9**	**0.2**	**0.1**	**0.1**
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	0.000656	0.000954	0.002210	0.100000	0.000160	0.000133	0.000195	0.000185	0.000195	0.000136	0.000208	0.000207
Technical specification limit	1.0	1.0	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**	**10.0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/13**	**2/13**	**3/13**	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**
Maximum leakage	0.020	0.020	0.030	0.030	0.040	0.040	0.030	0.030	0.030	0.070	0.040	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	**0.2**	**0.2**	**0.3**	**0.3**	**0.4**	**0.4**	**0.3**	**0.3**	**0.3**	**0.7**	**0.4**	**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	0.030	0.040	0.050	0.030	0.170	0.130	0.130	0.110	0.150	0.140	0.140	0.130
Technical specification limit	10.0	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**	**0.5**	**0.3**	**1.7**	**1.3**	**1.3**	**1.1**	**1.5**	**1.4**	**1.4**	**1.3**

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	21.0	46.0	100.0	46.0	36.0	46.0	25.0	68.0
Total opportunities	22.0	48.0	102.0	48.0	36.0	46.0	27.0	72.0
Indicator value	**97.7%**	**97.3%**	**97.7%**	**98.0%**	**98.0%**	**97.9%**	**97.3%**	**96.8%**

Licensee Comments:

3Q/13: A change report was submitted to address a followup Alert classification and its associated communication that were erroneously counted as two opportunities in March 2013. The succcessful to total opportunities for March 2013 was revised from "17 of 18" to "15 of 16." There is no effect on the PI color, which remains green.

1Q/13: A followup Alert classification and its associated communication were erroneously counted as two opportunities in March 2013. The succcessful to total opportunities for March 2013 is revised from "17 of 18" to "15 of 16." There is no effect on the PI color, which remains green.

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	98.0	101.0	117.0	114.0	117.0	113.0	110.0	113.0
Total Key personnel	98.0	101.0	117.0	114.0	117.0	115.0	110.0	113.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.3%**	**100.0%**	**100.0%**

Licensee Comments:

2Q/13: One additional key ERO member was identified as having been trained and qualified in June 2013 that was not previously counted. The reported participating and total key personnel is revised from "100 of 100" to "101 of 101." There is no effect on the PI color, which remains green.

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	438	438	438	437	392	422	424	429
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**99.9%**	**100.0%**	**100.0%**	**99.9%**	**97.3%**	**96.4%**	**95.6%**	**95.1%**

Licensee Comments:

3Q/13: A change report was submitted to address one additional key ERO member that was identified as having been trained and qualified in June 2013 that was not previously counted. The reported participating and total key personnel was revised from "100 of 100" to "101 of 101." There is no effect on the PI color, which remains green.

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	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	**2**	**1**	**1**	**0**	**0**	**1**	**1**	**1**

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

Waterford 3

1Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: LER being revised from Q1 2014 to be a SSFF

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/13	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2069.0	2208.0	2209.0	2159.0	1439.6	2208.0	2209.0	2159.0
Indicator value	**1.1**	**1.1**	**0.9**	**0**	**0**	**0**	**0**	**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	2069.0	2208.0	2209.0	2159.0	1439.6	2208.0	2209.0	2159.0
Indicator value	**0**	**0**	**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	2	0	0	0	0	2	0
Indicator value	**1**	**3**	**2**	**2**	**2**	**0**	**2**	**2**

Licensee Comments:

4Q/14: LER 2014-003-00 and LER 2014-004-00 both submitted 4th quarter as SSFF.

3Q/14: LER 2014-003-00 a SSFF was reported in Licensing Event Report LER 2014-003-00. This SSFF was originally reported with 3rd quarter 2014 data submittal for time of occurrance in error. This has been entered into the corrrective action program under CR-WF3-2014-6299. The PI color will change from Yellow back to Green.

1Q/14: LER-2014-001-00 Retracting Change submitted to make it a SSFF - Engineering Analysis had determined it should still not be a SSFF. Changed back due to the system was capable of performing its safety function even though both trains were inoperable. LER currently being revised.

1Q/14: LER-2014-001-00 originally not determined to be a SSFF however, now after additional review is considered to be a SSFF due to past operability of both trains of the safety-related Containment Spray System being inoperable. LER is currently being revised.

3Q/13: LER 2013-003-00 submitted in July 2013. LER 2013-005-00 submitted in September 2013.

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	1.19E-07	1.29E-07	3.47E-09	1.79E-07	1.09E-07	1.03E-07	1.32E-07	1.15E-07
URI (ΔCDF)	-1.11E-07	-1.04E-07	-1.40E-07	-1.34E-07	-4.15E-07	-4.04E-07	-3.95E-07	-3.95E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**8.00E-09**	**2.50E-08**	**-1.40E-07**	**4.50E-08**	**-3.10E-07**	**-3.00E-07**	**-2.60E-07**	**-2.80E-07**

Licensee Comments:

3Q/13: Added a failure report for Emergency Diesel Generator A that occured in April 2013. Caused by failure of both Emergency Generator A starting air systems due to gasket leaks. Air compressor A1 and A2 gaskets were replaced which restored operability. The PI color is unaffected by this change and remains green.

2Q/13: Added a failure report for Emergency Diesel Generator A that occured in April 2013. Caused by failure of both Emergency Generator A starting air systems due to gasket leaks. Air compressor A1 and A2 gaskets were replaced which restored operability. The PI color is unaffected by this change and remains green.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**2Q/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-9.58E-09	-9.58E-09	-9.54E-09
URI (ΔCDF)	-9.29E-08	-9.37E-08	-9.36E-08	-9.33E-08	-9.13E-08	-9.18E-08	-9.34E-08	-9.35E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**

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/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	1.55E-08	2.54E-09	2.23E-08	3.37E-08	3.32E-08	3.32E-08	1.84E-08	1.85E-08
URI (ΔCDF)	-3.06E-07	-3.09E-07	-3.11E-07	-3.15E-07	-3.21E-07	-3.14E-07	-3.19E-07	-3.19E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.90E-07**	**-3.10E-07**	**-2.90E-07**	**-2.80E-07**	**-2.90E-07**	**-2.80E-07**	**-3.00E-07**	**-3.00E-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/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11	-1.06E-11
URI (ΔCDF)	-1.18E-11	-1.20E-11	-1.22E-11	-1.23E-11	-1.25E-11	-1.23E-11	-1.24E-11	-1.25E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**

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/13**	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**
UAI (ΔCDF)	4.15E-08	4.18E-08	4.03E-08	7.05E-08	7.28E-08	7.34E-08	7.05E-08	4.28E-08
URI (ΔCDF)	-3.98E-08	-4.01E-08	-4.03E-08	-4.26E-08	-4.32E-08	-4.30E-08	-4.31E-08	-4.34E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.70E-09**	**1.70E-09**	**-4.20E-11**	**2.80E-08**	**3.00E-08**	**3.00E-08**	**2.70E-08**	**-5.50E-10**

Licensee Comments: none

Reactor Coolant System Activity

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	0.000221	0.000211	0.000246	0.000267	0.000278	0.008540	0.002010	0.001480	0.000664	0.000656	0.000954	0.002210
Technical specification limit	1.0	1.0	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**	**0.9**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**
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	0.100000	0.000160	0.000133	0.000195	0.000185	0.000195	0.000136	0.000208	0.000207	0.000151	0.000150	0.000162
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**10.0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**4/13**	**5/13**	**6/13**	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**
Maximum leakage	0.030	0.040	0.040	0.030	0.030	0.030	0.070	0.040	0.040	0.030	0.040	0.050
Technical specification limit	10.0	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**	**0.3**	**0.3**	**0.3**	**0.7**	**0.4**	**0.4**	**0.3**	**0.4**	**0.5**
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	0.030	0.170	0.130	0.130	0.110	0.150	0.140	0.140	0.130	0.150	0.120	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	**0.3**	**1.7**	**1.3**	**1.3**	**1.1**	**1.5**	**1.4**	**1.4**	**1.3**	**1.5**	**1.2**	**1.2**

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	46.0	100.0	46.0	36.0	46.0	25.0	68.0	22.0
Total opportunities	48.0	102.0	48.0	36.0	46.0	27.0	72.0	22.0
Indicator value	**97.3%**	**97.7%**	**98.0%**	**98.0%**	**97.9%**	**97.3%**	**96.8%**	**97.0%**

Licensee Comments:

3Q/13: A change report was submitted to address a followup Alert classification and its associated communication that were erroneously counted as two opportunities in March 2013. The succcessful to total opportunities for March 2013 was revised from "17 of 18" to "15 of 16." There is no effect on the PI color, which remains green.

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	101.0	117.0	114.0	117.0	113.0	110.0	113.0	115.0
Total Key personnel	101.0	117.0	114.0	117.0	115.0	110.0	113.0	115.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**98.3%**	**100.0%**	**100.0%**	**100.0%**

Licensee Comments:

2Q/13: One additional key ERO member was identified as having been trained and qualified in June 2013 that was not previously counted. The reported participating and total key personnel is revised from "100 of 100" to "101 of 101." There is no effect on the PI color, which remains green.

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	438	438	437	392	422	424	429	416
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**100.0%**	**100.0%**	**99.9%**	**97.3%**	**96.4%**	**95.6%**	**95.1%**	**96.5%**

Licensee Comments:

3Q/13: A change report was submitted to address one additional key ERO member that was identified as having been trained and qualified in June 2013 that was not previously counted. The reported participating and total key personnel was revised from "100 of 100" to "101 of 101." There is no effect on the PI color, which remains green.

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	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	**1**	**1**	**0**	**0**	**1**	**1**	**1**	**1**

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

Waterford 3

2Q/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	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned scrams	0	0	0	0	0	0	0	1.0
Critical hours	2208.0	2209.0	2159.0	1439.6	2208.0	2209.0	2159.0	2079.8
Indicator value	**1.1**	**0.9**	**0**	**0**	**0**	**0**	**0**	**0.8**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/13	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15
Unplanned power changes	0	0	0	0	0	0	0	1.0
Critical hours	2208.0	2209.0	2159.0	1439.6	2208.0	2209.0	2159.0	2079.8
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0.8**

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	1.0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**1.0**

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	2	0	0	0	0	2	0	0
Indicator value	**3**	**2**	**2**	**2**	**0**	**2**	**2**	**2**

Licensee Comments:

4Q/14: LER 2014-003-00 and LER 2014-004-00 both submitted 4th quarter as SSFF.

3Q/14: LER 2014-003-00 a SSFF was reported in Licensing Event Report LER 2014-003-00. This SSFF was originally reported with 3rd quarter 2014 data submittal for time of occurrance in error. This has been entered into the corrrective action program under CR-WF3-2014-6299. The PI color will change from Yellow back to Green.

1Q/14: LER-2014-001-00 Retracting Change submitted to make it a SSFF - Engineering Analysis had determined it should still not be a SSFF. Changed back due to the system was capable of performing its safety function even though both trains were inoperable. LER currently being revised.

1Q/14: LER-2014-001-00 originally not determined to be a SSFF however, now after additional review is considered to be a SSFF due to past operability of both trains of the safety-related Containment Spray System being inoperable. LER is currently being revised.

3Q/13: LER 2013-003-00 submitted in July 2013. LER 2013-005-00 submitted in September 2013.

Mitigating Systems Performance Index, Emergency AC Power System

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

Notes

Mitigating Systems Performance Index, Emergency AC Power System	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	1.29E-07	3.47E-09	1.79E-07	1.09E-07	1.03E-07	1.32E-07	1.15E-07	3.81E-07
URI (ΔCDF)	-1.04E-07	-1.40E-07	-1.34E-07	-4.15E-07	-4.04E-07	-3.95E-07	-3.95E-07	-3.95E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.50E-08**	**-1.40E-07**	**4.50E-08**	**-3.10E-07**	**-3.00E-07**	**-2.60E-07**	**-2.80E-07**	**-1.30E-08**

Licensee Comments:

3Q/13: Added a failure report for Emergency Diesel Generator A that occured in April 2013. Caused by failure of both Emergency Generator A starting air systems due to gasket leaks. Air compressor A1 and A2 gaskets were replaced which restored operability. The PI color is unaffected by this change and remains green.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	**3Q/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	-1.30E-08	-1.30E-08	-1.30E-08	-1.30E-08	-9.58E-09	-9.58E-09	-9.54E-09	-1.01E-08
URI (ΔCDF)	-9.37E-08	-9.36E-08	-9.33E-08	-9.13E-08	-9.18E-08	-9.34E-08	-9.35E-08	-9.24E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.10E-07**	**-1.10E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**

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/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	2.54E-09	2.23E-08	3.37E-08	3.32E-08	3.32E-08	1.84E-08	1.85E-08	1.92E-08
URI (ΔCDF)	-3.09E-07	-3.11E-07	-3.15E-07	-3.21E-07	-3.14E-07	-3.19E-07	-3.19E-07	-3.19E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-07**	**-2.90E-07**	**-2.80E-07**	**-2.90E-07**	**-2.80E-07**	**-3.00E-07**	**-3.00E-07**	**-3.00E-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/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11	-1.06E-11	-1.07E-11
URI (ΔCDF)	-1.20E-11	-1.22E-11	-1.23E-11	-1.25E-11	-1.23E-11	-1.24E-11	-1.25E-11	-1.25E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**

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/13**	**4Q/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**
UAI (ΔCDF)	4.18E-08	4.03E-08	7.05E-08	7.28E-08	7.34E-08	7.05E-08	4.28E-08	3.98E-08
URI (ΔCDF)	-4.01E-08	-4.03E-08	-4.26E-08	-4.32E-08	-4.30E-08	-4.31E-08	-4.34E-08	-4.28E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**1.70E-09**	**-4.20E-11**	**2.80E-08**	**3.00E-08**	**3.00E-08**	**2.70E-08**	**-5.50E-10**	**-3.00E-09**

Licensee Comments: none

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	0.000267	0.000278	0.008540	0.002010	0.001480	0.000664	0.000656	0.000954	0.002210	0.100000	0.000160	0.000133
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0**	**0**	**0.9**	**0.2**	**0.1**	**0.1**	**0.1**	**0.1**	**0.2**	**10.0**	**0**	**0**

Reactor Coolant System Activity	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**
Maximum activity	0.000195	0.000185	0.000195	0.000136	0.000208	0.000207	0.000151	0.000150	0.000162	0.000164	0.000151	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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/13**	**8/13**	**9/13**	**10/13**	**11/13**	**12/13**	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**
Maximum leakage	0.030	0.030	0.030	0.070	0.040	0.040	0.030	0.040	0.050	0.030	0.170	0.130
Technical specification limit	10.0	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**	**0.3**	**0.7**	**0.4**	**0.4**	**0.3**	**0.4**	**0.5**	**0.3**	**1.7**	**1.3**
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	0.130	0.110	0.150	0.140	0.140	0.130	0.150	0.120	0.120	0.100	0.090	0.370
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.3**	**1.1**	**1.5**	**1.4**	**1.4**	**1.3**	**1.5**	**1.2**	**1.2**	**1.0**	**0.9**	**3.7**

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	100.0	46.0	36.0	46.0	25.0	68.0	22.0	36.0
Total opportunities	102.0	48.0	36.0	46.0	27.0	72.0	22.0	36.0
Indicator value	**97.7%**	**98.0%**	**98.0%**	**97.9%**	**97.3%**	**96.8%**	**97.0%**	**97.4%**

Licensee Comments:

3Q/13: A change report was submitted to address a followup Alert classification and its associated communication that were erroneously counted as two opportunities in March 2013. The succcessful to total opportunities for March 2013 was revised from "17 of 18" to "15 of 16." There is no effect on the PI color, which remains green.

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	117.0	114.0	117.0	113.0	110.0	113.0	115.0	113.0
Total Key personnel	117.0	114.0	117.0	115.0	110.0	113.0	115.0	113.0
Indicator value	**100.0%**	**100.0%**	**100.0%**	**98.3%**	**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	438	437	392	422	424	429	416	435
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**100.0%**	**99.9%**	**97.3%**	**96.4%**	**95.6%**	**95.1%**	**96.5%**	**97.3%**

Licensee Comments:

3Q/13: A change report was submitted to address one additional key ERO member that was identified as having been trained and qualified in June 2013 that was not previously counted. The reported participating and total key personnel was revised from "100 of 100" to "101 of 101." There is no effect on the PI color, which remains green.

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	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	**1**	**0**	**0**	**1**	**1**	**1**	**1**	**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

Waterford 3

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	0	0	0	0	0	1.0	0
Critical hours	2209.0	2159.0	1439.6	2208.0	2209.0	2159.0	2079.8	2208.0
Indicator value	**0.9**	**0**	**0**	**0**	**0**	**0**	**0.8**	**0.8**

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
Unplanned power changes	0	0	0	0	0	0	2.0	0
Critical hours	2209.0	2159.0	1439.6	2208.0	2209.0	2159.0	2079.8	2208.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**1.6**	**1.6**

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	1.0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**1.0**	**1.0**

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	2	0	0	1
Indicator value	**2**	**2**	**2**	**0**	**2**	**2**	**2**	**3**

Licensee Comments:

4Q/14: LER 2014-003-00 and LER 2014-004-00 both submitted 4th quarter as SSFF.

3Q/14: LER 2014-003-00 a SSFF was reported in Licensing Event Report LER 2014-003-00. This SSFF was originally reported with 3rd quarter 2014 data submittal for time of occurrance in error. This has been entered into the corrrective action program under CR-WF3-2014-6299. The PI color will change from Yellow back to Green.

1Q/14: LER-2014-001-00 Retracting Change submitted to make it a SSFF - Engineering Analysis had determined it should still not be a SSFF. Changed back due to the system was capable of performing its safety function even though both trains were inoperable. LER currently being revised.

1Q/14: LER-2014-001-00 originally not determined to be a SSFF however, now after additional review is considered to be a SSFF due to past operability of both trains of the safety-related Containment Spray System being inoperable. LER is currently being revised.

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)	3.47E-09	1.79E-07	1.09E-07	1.03E-07	1.32E-07	1.15E-07	3.81E-07	5.69E-07
URI (ΔCDF)	-1.40E-07	-1.34E-07	-4.15E-07	-4.04E-07	-3.95E-07	-3.95E-07	-3.95E-07	3.57E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.40E-07**	**4.50E-08**	**-3.10E-07**	**-3.00E-07**	**-2.60E-07**	**-2.80E-07**	**-1.30E-08**	**9.30E-07**

Licensee Comments:

3Q/15: Risk Cap Invoked.

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)	-1.30E-08	-1.30E-08	-1.30E-08	-9.58E-09	-9.58E-09	-9.54E-09	-1.01E-08	-3.32E-10
URI (ΔCDF)	-9.36E-08	-9.33E-08	-9.13E-08	-9.18E-08	-9.34E-08	-9.35E-08	-9.24E-08	-9.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.10E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-9.30E-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/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	2.23E-08	3.37E-08	3.32E-08	3.32E-08	1.84E-08	1.85E-08	1.92E-08	1.86E-08
URI (ΔCDF)	-3.11E-07	-3.15E-07	-3.21E-07	-3.14E-07	-3.19E-07	-3.19E-07	-3.19E-07	-3.21E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.90E-07**	**-2.80E-07**	**-2.90E-07**	**-2.80E-07**	**-3.00E-07**	**-3.00E-07**	**-3.00E-07**	**-3.00E-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/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11	-1.06E-11	-1.07E-11	-1.07E-11
URI (ΔCDF)	-1.22E-11	-1.23E-11	-1.25E-11	-1.23E-11	-1.24E-11	-1.25E-11	-1.25E-11	-1.22E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**

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/13**	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**
UAI (ΔCDF)	4.03E-08	7.05E-08	7.28E-08	7.34E-08	7.05E-08	4.28E-08	3.98E-08	3.61E-08
URI (ΔCDF)	-4.03E-08	-4.26E-08	-4.32E-08	-4.30E-08	-4.31E-08	-4.34E-08	-4.28E-08	-4.27E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-4.20E-11**	**2.80E-08**	**3.00E-08**	**3.00E-08**	**2.70E-08**	**-5.50E-10**	**-3.00E-09**	**-6.60E-09**

Licensee Comments: none

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	0.002010	0.001480	0.000664	0.000656	0.000954	0.002210	0.100000	0.000160	0.000133	0.000195	0.000185	0.000195
Technical specification limit	1.0	1.0	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**	**10.0**	**0**	**0**	**0**	**0**	**0**
Reactor Coolant System Activity	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**
Maximum activity	0.000136	0.000208	0.000207	0.000151	0.000150	0.000162	0.000164	0.000151	0.000165	0.000178	0.000183	0.000178
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/13	11/13	12/13	1/14	2/14	3/14	4/14	5/14	6/14	7/14	8/14	9/14
Maximum leakage	0.070	0.040	0.040	0.030	0.040	0.050	0.030	0.170	0.130	0.130	0.110	0.150
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**0.7**	**0.4**	**0.4**	**0.3**	**0.4**	**0.5**	**0.3**	**1.7**	**1.3**	**1.3**	**1.1**	**1.5**
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	0.140	0.140	0.130	0.150	0.120	0.120	0.100	0.090	0.370	0.200	0.190	0.180
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.4**	**1.4**	**1.3**	**1.5**	**1.2**	**1.2**	**1.0**	**0.9**	**3.7**	**2.0**	**1.9**	**1.8**

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	46.0	36.0	46.0	25.0	68.0	22.0	36.0	49.0
Total opportunities	48.0	36.0	46.0	27.0	72.0	22.0	36.0	52.0
Indicator value	**98.0%**	**98.0%**	**97.9%**	**97.3%**	**96.8%**	**97.0%**	**97.4%**	**96.8%**

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	114.0	117.0	113.0	110.0	113.0	115.0	113.0	104.0
Total Key personnel	114.0	117.0	115.0	110.0	113.0	115.0	113.0	104.0
Indicator value	**100.0%**	**100.0%**	**98.3%**	**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	437	392	422	424	429	416	435	401
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**99.9%**	**97.3%**	**96.4%**	**95.6%**	**95.1%**	**96.5%**	**97.3%**	**95.9%**

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	4Q/13	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15
High radiation area occurrences	0	0	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	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

Waterford 3

4Q/2015 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: 10/3/15 Reactor shutdown reason was inadvertently listed as unplanned scram with complications when it should have been indicated without complications.

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/14	2Q/14	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15
Unplanned scrams	0	0	0	0	0	1.0	0	1.0
Critical hours	2159.0	1439.6	2208.0	2209.0	2159.0	2079.8	2208.0	929.5
Indicator value	**0**	**0**	**0**	**0**	**0**	**0.8**	**0.8**	**1.9**

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	2.0	0	0
Critical hours	2159.0	1439.6	2208.0	2209.0	2159.0	2079.8	2208.0	929.5
Indicator value	**0**	**0**	**0**	**0**	**0**	**1.6**	**1.6**	**1.9**

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	1.0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**1.0**	**1.0**	**1.0**

Licensee Comments: none

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	2	0	0	1	1
Indicator value	**2**	**2**	**0**	**2**	**2**	**2**	**3**	**2**

Licensee Comments:

4Q/15: LER 2015-007-00 issued 10/23/2015. On 8/16/2015, Both A & B EDG declared inoperable, entry into TS 3.8.1.1 action f. - EDG A was declared inoperable following a trip on generator differential due to failed current transformer. Then EDG B, which was subsequently started per TS 3.8.1.1 action b(1), was declared inoperable due to exhaust fan not starting when diesel was started then TS 3.8.1.1 action f was entered.

4Q/14: LER 2014-003-00 and LER 2014-004-00 both submitted 4th quarter as SSFF.

3Q/14: LER 2014-003-00 a SSFF was reported in Licensing Event Report LER 2014-003-00. This SSFF was originally reported with 3rd quarter 2014 data submittal for time of occurrance in error. This has been entered into the corrrective action program under CR-WF3-2014-6299. The PI color will change from Yellow back to Green.

1Q/14: LER-2014-001-00 Retracting Change submitted to make it a SSFF - Engineering Analysis had determined it should still not be a SSFF. Changed back due to the system was capable of performing its safety function even though both trains were inoperable. LER currently being revised.

1Q/14: LER-2014-001-00 originally not determined to be a SSFF however, now after additional review is considered to be a SSFF due to past operability of both trains of the safety-related Containment Spray System being inoperable. LER is currently being revised.

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)	1.79E-07	1.09E-07	1.03E-07	1.32E-07	1.15E-07	3.81E-07	5.69E-07	5.71E-07
URI (ΔCDF)	-1.34E-07	-4.15E-07	-4.04E-07	-3.95E-07	-3.95E-07	-3.95E-07	3.57E-07	3.56E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**4.50E-08**	**-3.10E-07**	**-3.00E-07**	**-2.60E-07**	**-2.80E-07**	**-1.30E-08**	**9.30E-07**	**9.30E-07**

Licensee Comments:

4Q/15: Risk Cap Invoked.

3Q/15: Risk Cap Invoked.

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)	-1.30E-08	-1.30E-08	-9.58E-09	-9.58E-09	-9.54E-09	-1.01E-08	-3.32E-10	-1.32E-09
URI (ΔCDF)	-9.33E-08	-9.13E-08	-9.18E-08	-9.34E-08	-9.35E-08	-9.24E-08	-9.26E-08	-9.11E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.10E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-9.30E-08**	**-9.20E-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/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	3.37E-08	3.32E-08	3.32E-08	1.84E-08	1.85E-08	1.92E-08	1.86E-08	5.12E-09
URI (ΔCDF)	-3.15E-07	-3.21E-07	-3.14E-07	-3.19E-07	-3.19E-07	-3.19E-07	-3.21E-07	-3.26E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.80E-07**	**-2.90E-07**	**-2.80E-07**	**-3.00E-07**	**-3.00E-07**	**-3.00E-07**	**-3.00E-07**	**-3.20E-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	**1Q/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	-1.07E-11	-1.07E-11	-1.07E-11	-1.07E-11	-1.06E-11	-1.07E-11	-1.07E-11	-8.56E-12
URI (ΔCDF)	-1.23E-11	-1.25E-11	-1.23E-11	-1.24E-11	-1.25E-11	-1.25E-11	-1.22E-11	-1.22E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.10E-11**

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/14**	**2Q/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**
UAI (ΔCDF)	7.05E-08	7.28E-08	7.34E-08	7.05E-08	4.28E-08	3.98E-08	3.61E-08	3.47E-08
URI (ΔCDF)	-4.26E-08	-4.32E-08	-4.30E-08	-4.31E-08	-4.34E-08	-4.28E-08	-4.27E-08	-4.26E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.80E-08**	**3.00E-08**	**3.00E-08**	**2.70E-08**	**-5.50E-10**	**-3.00E-09**	**-6.60E-09**	**-7.90E-09**

Licensee Comments: none

Reactor Coolant System Activity

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	**1/14**	**2/14**	**3/14**	**4/14**	**5/14**	**6/14**	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**
Maximum activity	0.000656	0.000954	0.002210	0.100000	0.000160	0.000133	0.000195	0.000185	0.000195	0.000136	0.000208	0.000207
Technical specification limit	1.0	1.0	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**	**10.0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**
Maximum activity	0.000151	0.000150	0.000162	0.000164	0.000151	0.000165	0.000178	0.000183	0.000178	0.000182	N/A	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	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**N/A**	**0.1**

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	0.030	0.040	0.050	0.030	0.170	0.130	0.130	0.110	0.150	0.140	0.140	0.130
Technical specification limit	10.0	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**	**0.5**	**0.3**	**1.7**	**1.3**	**1.3**	**1.1**	**1.5**	**1.4**	**1.4**	**1.3**
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	0.150	0.120	0.120	0.100	0.090	0.370	0.200	0.190	0.180	0.170	0	0.249
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.5**	**1.2**	**1.2**	**1.0**	**0.9**	**3.7**	**2.0**	**1.9**	**1.8**	**1.7**	**0**	**2.5**

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	36.0	46.0	25.0	68.0	22.0	36.0	49.0	2.0
Total opportunities	36.0	46.0	27.0	72.0	22.0	36.0	52.0	2.0
Indicator value	**98.0%**	**97.9%**	**97.3%**	**96.8%**	**97.0%**	**97.4%**	**96.8%**	**96.9%**

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	117.0	113.0	110.0	113.0	115.0	113.0	104.0	100.0
Total Key personnel	117.0	115.0	110.0	113.0	115.0	113.0	104.0	100.0
Indicator value	**100.0%**	**98.3%**	**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	392	422	424	429	416	435	401	438
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**97.3%**	**96.4%**	**95.6%**	**95.1%**	**96.5%**	**97.3%**	**95.9%**	**96.5%**

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	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

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

Waterford 3

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	1.0	0	1.0	0
Critical hours	1439.6	2208.0	2209.0	2159.0	2079.8	2208.0	929.5	2183.0
Indicator value	**0**	**0**	**0**	**0**	**0.8**	**0.8**	**1.9**	**1.9**

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	2.0	0	0	0
Critical hours	1439.6	2208.0	2209.0	2159.0	2079.8	2208.0	929.5	2183.0
Indicator value	**0**	**0**	**0**	**0**	**1.6**	**1.6**	**1.9**	**1.9**

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	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

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	2	0	0	1	1	0
Indicator value	**2**	**0**	**2**	**2**	**2**	**3**	**2**	**2**

Licensee Comments:

4Q/15: LER 2015-007-00 issued 10/23/2015. On 8/16/2015, Both A & B EDG declared inoperable, entry into TS 3.8.1.1 action f. - EDG A was declared inoperable following a trip on generator differential due to failed current transformer. Then EDG B, which was subsequently started per TS 3.8.1.1 action b(1), was declared inoperable due to exhaust fan not starting when diesel was started then TS 3.8.1.1 action f was entered.

4Q/14: LER 2014-003-00 and LER 2014-004-00 both submitted 4th quarter as SSFF.

3Q/14: LER 2014-003-00 a SSFF was reported in Licensing Event Report LER 2014-003-00. This SSFF was originally reported with 3rd quarter 2014 data submittal for time of occurrance in error. This has been entered into the corrrective action program under CR-WF3-2014-6299. The PI color will change from Yellow back to Green.

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)	1.09E-07	1.03E-07	1.32E-07	1.15E-07	3.81E-07	5.69E-07	5.71E-07	5.55E-07
URI (ΔCDF)	-4.15E-07	-4.04E-07	-3.95E-07	-3.95E-07	-3.95E-07	3.57E-07	3.56E-07	3.49E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.10E-07**	**-3.00E-07**	**-2.60E-07**	**-2.80E-07**	**-1.30E-08**	**9.30E-07**	**9.30E-07**	**9.00E-07**

Licensee Comments:

1Q/16: Risk Cap Invoked. The Generic Common Cause Failure (CCF) Factors applied to the Emergency Diesel Generator (EDG) runtime failure Birnbaum were not correct. The incorrect value of 1.0 should be changed to 1.25 per the guidance in NEI 99-02 Rev. 7. Ref. EC-63198.

4Q/15: Risk Cap Invoked.

3Q/15: Risk Cap Invoked.

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)	-1.30E-08	-9.58E-09	-9.58E-09	-9.54E-09	-1.01E-08	-3.32E-10	-1.32E-09	-5.11E-09
URI (ΔCDF)	-9.13E-08	-9.18E-08	-9.34E-08	-9.35E-08	-9.24E-08	-9.26E-08	-9.11E-08	-8.93E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-9.30E-08**	**-9.20E-08**	**-9.40E-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/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	3.32E-08	3.32E-08	1.84E-08	1.85E-08	1.92E-08	1.86E-08	5.12E-09	-4.01E-08
URI (ΔCDF)	-3.21E-07	-3.14E-07	-3.19E-07	-3.19E-07	-3.19E-07	-3.21E-07	-3.26E-07	-3.13E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.90E-07**	**-2.80E-07**	**-3.00E-07**	**-3.00E-07**	**-3.00E-07**	**-3.00E-07**	**-3.20E-07**	**-3.50E-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/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	-1.07E-11	-1.07E-11	-1.07E-11	-1.06E-11	-1.07E-11	-1.07E-11	-8.56E-12	-3.88E-12
URI (ΔCDF)	-1.25E-11	-1.23E-11	-1.24E-11	-1.25E-11	-1.25E-11	-1.22E-11	-1.22E-11	-1.20E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.10E-11**	**-1.60E-11**

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/14**	**3Q/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**
UAI (ΔCDF)	7.28E-08	7.34E-08	7.05E-08	4.28E-08	3.98E-08	3.61E-08	3.47E-08	3.52E-08
URI (ΔCDF)	-4.32E-08	-4.30E-08	-4.31E-08	-4.34E-08	-4.28E-08	-4.27E-08	-4.26E-08	-4.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.00E-08**	**3.00E-08**	**2.70E-08**	**-5.50E-10**	**-3.00E-09**	**-6.60E-09**	**-7.90E-09**	**-1.30E-08**

Licensee Comments: none

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	0.100000	0.000160	0.000133	0.000195	0.000185	0.000195	0.000136	0.000208	0.000207	0.000151	0.000150	0.000162
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**10.0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**
Maximum activity	0.000164	0.000151	0.000165	0.000178	0.000183	0.000178	0.000182	N/A	0.000984	0.000106	0.000183	0.000185
Technical specification limit	1.0	1.0	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**	**N/A**	**0.1**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/14	5/14	6/14	7/14	8/14	9/14	10/14	11/14	12/14	1/15	2/15	3/15
Maximum leakage	0.030	0.170	0.130	0.130	0.110	0.150	0.140	0.140	0.130	0.150	0.120	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	**0.3**	**1.7**	**1.3**	**1.3**	**1.1**	**1.5**	**1.4**	**1.4**	**1.3**	**1.5**	**1.2**	**1.2**

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	0.100	0.090	0.370	0.200	0.190	0.180	0.170	0	0.249	0.010	0.020	0.017
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.0**	**0.9**	**3.7**	**2.0**	**1.9**	**1.8**	**1.7**	**0**	**2.5**	**0.1**	**0.2**	**0.2**

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	46.0	25.0	68.0	22.0	36.0	49.0	2.0	60.0
Total opportunities	46.0	27.0	72.0	22.0	36.0	52.0	2.0	62.0
Indicator value	**97.9%**	**97.3%**	**96.8%**	**97.0%**	**97.4%**	**96.8%**	**96.9%**	**96.6%**

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	113.0	110.0	113.0	115.0	113.0	104.0	100.0	98.0
Total Key personnel	115.0	110.0	113.0	115.0	113.0	104.0	100.0	98.0
Indicator value	**98.3%**	**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	422	424	429	416	435	401	438	437
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**96.4%**	**95.6%**	**95.1%**	**96.5%**	**97.3%**	**95.9%**	**96.5%**	**97.7%**

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	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

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

Waterford 3

2Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: DEP miss in 2nd Month of 3rd quarter was re-evaluated based on discussion of similar issue identified in evaluated session in 2016 with NRC. The number of successful opportunities was increased to 22.

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	1.0	0	1.0	0	0
Critical hours	2208.0	2209.0	2159.0	2079.8	2208.0	929.5	2183.0	2184.0
Indicator value	**0**	**0**	**0**	**0.8**	**0.8**	**1.9**	**1.9**	**0.9**

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	2.0	0	0	0	0
Critical hours	2208.0	2209.0	2159.0	2079.8	2208.0	929.5	2183.0	2184.0
Indicator value	**0**	**0**	**0**	**1.6**	**1.6**	**1.9**	**1.9**	**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	1.0	0	0	0	0
Indicator value	**0.0**	**0.0**	**0.0**	**1.0**	**1.0**	**1.0**	**1.0**	**0.0**

Licensee Comments: none

Thresholds: White > 5.0

Notes

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

Licensee Comments:

4Q/15: LER 2015-007-00 issued 10/23/2015. On 8/16/2015, Both A & B EDG declared inoperable, entry into TS 3.8.1.1 action f. - EDG A was declared inoperable following a trip on generator differential due to failed current transformer. Then EDG B, which was subsequently started per TS 3.8.1.1 action b(1), was declared inoperable due to exhaust fan not starting when diesel was started then TS 3.8.1.1 action f was entered.

4Q/14: LER 2014-003-00 and LER 2014-004-00 both submitted 4th quarter as SSFF.

3Q/14: LER 2014-003-00 a SSFF was reported in Licensing Event Report LER 2014-003-00. This SSFF was originally reported with 3rd quarter 2014 data submittal for time of occurrance in error. This has been entered into the corrrective action program under CR-WF3-2014-6299. The PI color will change from Yellow back to Green.

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)	1.03E-07	1.32E-07	1.15E-07	3.81E-07	5.69E-07	5.71E-07	5.55E-07	7.02E-07
URI (ΔCDF)	-4.04E-07	-3.95E-07	-3.95E-07	-3.95E-07	3.57E-07	3.56E-07	3.49E-07	-9.46E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.00E-07**	**-2.60E-07**	**-2.80E-07**	**-1.30E-08**	**9.30E-07**	**9.30E-07**	**9.00E-07**	**6.10E-07**

Licensee Comments:

2Q/16: Risk Cap Invoked.

1Q/16: Risk Cap Invoked. The Generic Common Cause Failure (CCF) Factors applied to the Emergency Diesel Generator (EDG) runtime failure Birnbaum were not correct. The incorrect value of 1.0 should be changed to 1.25 per the guidance in NEI 99-02 Rev. 7. Ref. EC-63198.

4Q/15: Risk Cap Invoked.

3Q/15: Risk Cap Invoked.

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)	-9.58E-09	-9.58E-09	-9.54E-09	-1.01E-08	-3.32E-10	-1.32E-09	-5.11E-09	-4.45E-09
URI (ΔCDF)	-9.18E-08	-9.34E-08	-9.35E-08	-9.24E-08	-9.26E-08	-9.11E-08	-8.93E-08	-8.88E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-9.30E-08**	**-9.20E-08**	**-9.40E-08**	**-9.30E-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/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	3.32E-08	1.84E-08	1.85E-08	1.92E-08	1.86E-08	5.12E-09	-4.01E-08	-4.03E-08
URI (ΔCDF)	-3.14E-07	-3.19E-07	-3.19E-07	-3.19E-07	-3.21E-07	-3.26E-07	-3.13E-07	-3.13E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.80E-07**	**-3.00E-07**	**-3.00E-07**	**-3.00E-07**	**-3.00E-07**	**-3.20E-07**	**-3.50E-07**	**-3.50E-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/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	-1.07E-11	-1.07E-11	-1.06E-11	-1.07E-11	-1.07E-11	-8.56E-12	-3.88E-12	-3.47E-12
URI (ΔCDF)	-1.23E-11	-1.24E-11	-1.25E-11	-1.25E-11	-1.22E-11	-1.22E-11	-1.20E-11	-1.22E-11
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.10E-11**	**-1.60E-11**	**-1.60E-11**

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/14**	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**
UAI (ΔCDF)	7.34E-08	7.05E-08	4.28E-08	3.98E-08	3.61E-08	3.47E-08	3.52E-08	5.42E-08
URI (ΔCDF)	-4.30E-08	-4.31E-08	-4.34E-08	-4.28E-08	-4.27E-08	-4.26E-08	-4.81E-08	-4.75E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**3.00E-08**	**2.70E-08**	**-5.50E-10**	**-3.00E-09**	**-6.60E-09**	**-7.90E-09**	**-1.30E-08**	**6.70E-09**

Licensee Comments: none

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	0.000195	0.000185	0.000195	0.000136	0.000208	0.000207	0.000151	0.000150	0.000162	0.000164	0.000151	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**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**	**4/16**	**5/16**	**6/16**
Maximum activity	0.000178	0.000183	0.000178	0.000182	N/A	0.000984	0.000106	0.000183	0.000185	0.000200	0.000216	0.000200
Technical specification limit	1.0	1.0	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**	**N/A**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**7/14**	**8/14**	**9/14**	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**
Maximum leakage	0.130	0.110	0.150	0.140	0.140	0.130	0.150	0.120	0.120	0.100	0.090	0.370
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.3**	**1.1**	**1.5**	**1.4**	**1.4**	**1.3**	**1.5**	**1.2**	**1.2**	**1.0**	**0.9**	**3.7**
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	0.200	0.190	0.180	0.170	0	0.249	0.010	0.020	0.017	0.020	0.020	0.020
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**2.0**	**1.9**	**1.8**	**1.7**	**0**	**2.5**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Licensee Comments: none

Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	3Q/14	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16
Successful opportunities	25.0	68.0	22.0	36.0	47.0	2.0	60.0	148.0
Total opportunities	27.0	72.0	22.0	36.0	49.0	2.0	62.0	151.0
Indicator value	**97.3%**	**96.8%**	**97.0%**	**97.4%**	**97.0%**	**97.2%**	**96.8%**	**96.9%**

Licensee Comments:

3Q/15: DEP miss in 2nd Month of 3rd quarter was re-evaluated based on discussion of similar issue identified in evaluated session in 2016 with NRC. The number of successful opportunities was increased to 22.

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	110.0	113.0	115.0	113.0	104.0	100.0	98.0	99.0
Total Key personnel	110.0	113.0	115.0	113.0	104.0	100.0	98.0	99.0
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	424	429	416	435	401	438	437	438
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**95.6%**	**95.1%**	**96.5%**	**97.3%**	**95.9%**	**96.5%**	**97.7%**	**97.8%**

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	**1**	**1**	**1**	**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

Waterford 3

3Q/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	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Unplanned scrams	0	0	1.0	0	1.0	0	0	0
Critical hours	2209.0	2159.0	2079.8	2208.0	929.5	2183.0	2184.0	2208.0
Indicator value	**0**	**0**	**0.8**	**0.8**	**1.9**	**1.9**	**0.9**	**0.9**

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	2.0	0	0	0	0	0
Critical hours	2209.0	2159.0	2079.8	2208.0	929.5	2183.0	2184.0	2208.0
Indicator value	**0**	**0**	**1.6**	**1.6**	**1.9**	**1.9**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/14	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16
Scrams with complications	0	0	1.0	0	0	0	0	0
Indicator value	**0.0**	**0.0**	**1.0**	**1.0**	**1.0**	**1.0**	**0.0**	**0.0**

Licensee Comments: none

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	2	0	0	1	1	0	0	0
Indicator value	**2**	**2**	**2**	**3**	**2**	**2**	**2**	**1**

Licensee Comments:

4Q/15: LER 2015-007-00 issued 10/23/2015. On 8/16/2015, Both A & B EDG declared inoperable, entry into TS 3.8.1.1 action f. - EDG A was declared inoperable following a trip on generator differential due to failed current transformer. Then EDG B, which was subsequently started per TS 3.8.1.1 action b(1), was declared inoperable due to exhaust fan not starting when diesel was started then TS 3.8.1.1 action f was entered.

4Q/14: LER 2014-003-00 and LER 2014-004-00 both submitted 4th quarter as SSFF.

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)	1.32E-07	1.15E-07	3.81E-07	5.69E-07	5.71E-07	5.55E-07	7.02E-07	2.41E-07
URI (ΔCDF)	-3.95E-07	-3.95E-07	-3.95E-07	3.57E-07	3.56E-07	3.49E-07	-9.46E-08	2.54E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.60E-07**	**-2.80E-07**	**-1.30E-08**	**9.30E-07**	**9.30E-07**	**9.00E-07**	**6.10E-07**	**4.90E-07**

Licensee Comments:

3Q/16: Risk Cap Invoked. Changed PRA Parameter(s).

2Q/16: Risk Cap Invoked.

1Q/16: Risk Cap Invoked. The Generic Common Cause Failure (CCF) Factors applied to the Emergency Diesel Generator (EDG) runtime failure Birnbaum were not correct. The incorrect value of 1.0 should be changed to 1.25 per the guidance in NEI 99-02 Rev. 7. Ref. EC-63198.

4Q/15: Risk Cap Invoked.

3Q/15: Risk Cap Invoked.

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)	-9.58E-09	-9.54E-09	-1.01E-08	-3.32E-10	-1.32E-09	-5.11E-09	-4.45E-09	-3.01E-09
URI (ΔCDF)	-9.34E-08	-9.35E-08	-9.24E-08	-9.26E-08	-9.11E-08	-8.93E-08	-8.88E-08	-1.41E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-07**	**-1.00E-07**	**-1.00E-07**	**-9.30E-08**	**-9.20E-08**	**-9.40E-08**	**-9.30E-08**	**-1.40E-07**

Licensee Comments:

3Q/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	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	1.84E-08	1.85E-08	1.92E-08	1.86E-08	5.12E-09	-4.01E-08	-4.03E-08	-6.13E-08
URI (ΔCDF)	-3.19E-07	-3.19E-07	-3.19E-07	-3.21E-07	-3.26E-07	-3.13E-07	-3.13E-07	-1.63E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.00E-07**	**-3.00E-07**	**-3.00E-07**	**-3.00E-07**	**-3.20E-07**	**-3.50E-07**	**-3.50E-07**	**-2.20E-07**

Licensee Comments:

3Q/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/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	-1.07E-11	-1.06E-11	-1.07E-11	-1.07E-11	-8.56E-12	-3.88E-12	-3.47E-12	5.16E-11
URI (ΔCDF)	-1.24E-11	-1.25E-11	-1.25E-11	-1.22E-11	-1.22E-11	-1.20E-11	-1.22E-11	-3.13E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.10E-11**	**-1.60E-11**	**-1.60E-11**	**-2.60E-10**

Licensee Comments:

3Q/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	**4Q/14**	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**
UAI (ΔCDF)	7.05E-08	4.28E-08	3.98E-08	3.61E-08	3.47E-08	3.52E-08	5.42E-08	2.61E-07
URI (ΔCDF)	-4.31E-08	-4.34E-08	-4.28E-08	-4.27E-08	-4.26E-08	-4.81E-08	-4.75E-08	-2.12E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**2.70E-08**	**-5.50E-10**	**-3.00E-09**	**-6.60E-09**	**-7.90E-09**	**-1.30E-08**	**6.70E-09**	**4.90E-08**

Licensee Comments:

3Q/16: 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	0.000136	0.000208	0.000207	0.000151	0.000150	0.000162	0.000164	0.000151	0.000165	0.000178	0.000183	0.000178
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	**10/15**	**11/15**	**12/15**	**1/16**	**2/16**	**3/16**	**4/16**	**5/16**	**6/16**	**7/16**	**8/16**	**9/16**
Maximum activity	0.000182	N/A	0.000984	0.000106	0.000183	0.000185	0.000200	0.000216	0.000200	0.000208	0.000214	0.000220
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0**	**N/A**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**10/14**	**11/14**	**12/14**	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**
Maximum leakage	0.140	0.140	0.130	0.150	0.120	0.120	0.100	0.090	0.370	0.200	0.190	0.180
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.4**	**1.4**	**1.3**	**1.5**	**1.2**	**1.2**	**1.0**	**0.9**	**3.7**	**2.0**	**1.9**	**1.8**
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	0.170	0	0.249	0.010	0.020	0.017	0.020	0.020	0.020	0.020	0.020	0.020
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.7**	**0**	**2.5**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

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	68.0	22.0	36.0	47.0	2.0	60.0	148.0	27.0
Total opportunities	72.0	22.0	36.0	49.0	2.0	62.0	151.0	27.0
Indicator value	**96.8%**	**97.0%**	**97.4%**	**97.0%**	**97.2%**	**96.8%**	**96.9%**	**97.4%**

Licensee Comments:

3Q/15: DEP miss in 2nd Month of 3rd quarter was re-evaluated based on discussion of similar issue identified in evaluated session in 2016 with NRC. The number of successful opportunities was increased to 22.

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	113.0	115.0	113.0	104.0	100.0	98.0	99.0	102.0
Total Key personnel	113.0	115.0	113.0	104.0	100.0	98.0	99.0	102.0
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	429	416	435	401	438	437	438	437
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**95.1%**	**96.5%**	**97.3%**	**95.9%**	**96.5%**	**97.7%**	**97.8%**	**99.9%**

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	**1**	**1**	**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

Waterford 3

4Q/2016 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: PRA Parameter calculation change 3Q2016

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	1.0	0	1.0	0	0	0	0
Critical hours	2159.0	2079.8	2208.0	929.5	2183.0	2184.0	2208.0	2067.3
Indicator value	**0**	**0.8**	**0.8**	**1.9**	**1.9**	**0.9**	**0.9**	**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	2.0	0	0	0	0	0	0
Critical hours	2159.0	2079.8	2208.0	929.5	2183.0	2184.0	2208.0	2067.3
Indicator value	**0**	**1.6**	**1.6**	**1.9**	**1.9**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Scrams with complications	0	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)	1Q/15	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16
Safety System Functional Failures	0	0	1	1	0	0	0	1
Indicator value	**2**	**2**	**3**	**2**	**2**	**2**	**1**	**1**

Licensee Comments:

4Q/16: LER 2016-002-00 reported 10/11/2016 - Incident occurred August 12th 2016.

4Q/15: LER 2015-007-00 issued 10/23/2015. On 8/16/2015, Both A & B EDG declared inoperable, entry into TS 3.8.1.1 action f. - EDG A was declared inoperable following a trip on generator differential due to failed current transformer. Then EDG B, which was subsequently started per TS 3.8.1.1 action b(1), was declared inoperable due to exhaust fan not starting when diesel was started then TS 3.8.1.1 action f was entered.

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)	1.15E-07	3.81E-07	5.69E-07	5.71E-07	5.55E-07	7.02E-07	1.61E-07	2.37E-07
URI (ΔCDF)	-3.95E-07	-3.95E-07	3.57E-07	3.56E-07	3.49E-07	-9.46E-08	2.54E-07	2.78E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.80E-07**	**-1.30E-08**	**9.30E-07**	**9.30E-07**	**9.00E-07**	**6.10E-07**	**4.20E-07**	**5.10E-07**

Licensee Comments:

4Q/16: Risk Cap Invoked.

4Q/16: Risk Cap Invoked. Changed PRA Parameter(s).

3Q/16: Risk Cap Invoked. Changed PRA Parameter(s).

3Q/16: Risk Cap Invoked. Changed PRA Parameter(s).

2Q/16: Risk Cap Invoked.

1Q/16: Risk Cap Invoked. The Generic Common Cause Failure (CCF) Factors applied to the Emergency Diesel Generator (EDG) runtime failure Birnbaum were not correct. The incorrect value of 1.0 should be changed to 1.25 per the guidance in NEI 99-02 Rev. 7. Ref. EC-63198.

4Q/15: Risk Cap Invoked.

3Q/15: Risk Cap Invoked.

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)	-9.54E-09	-1.01E-08	-3.32E-10	-1.32E-09	-5.11E-09	-4.45E-09	-3.01E-09	-9.75E-09
URI (ΔCDF)	-9.35E-08	-9.24E-08	-9.26E-08	-9.11E-08	-8.93E-08	-8.88E-08	-1.41E-07	-1.41E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-07**	**-1.00E-07**	**-9.30E-08**	**-9.20E-08**	**-9.40E-08**	**-9.30E-08**	**-1.40E-07**	**-1.50E-07**

Licensee Comments:

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

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

Notes

Mitigating Systems Performance Index, Heat Removal System	**1Q/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	1.85E-08	1.92E-08	1.86E-08	5.12E-09	-4.01E-08	-4.03E-08	-6.13E-08	-6.20E-08
URI (ΔCDF)	-3.19E-07	-3.19E-07	-3.21E-07	-3.26E-07	-3.13E-07	-3.13E-07	-1.63E-07	-1.60E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.00E-07**	**-3.00E-07**	**-3.00E-07**	**-3.20E-07**	**-3.50E-07**	**-3.50E-07**	**-2.20E-07**	**-2.20E-07**

Licensee Comments:

3Q/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/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	-1.06E-11	-1.07E-11	-1.07E-11	-8.56E-12	-3.88E-12	-3.47E-12	2.58E-11	0.00E+00
URI (ΔCDF)	-1.25E-11	-1.25E-11	-1.22E-11	-1.22E-11	-1.20E-11	-1.22E-11	-1.57E-10	-1.54E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-11**	**-2.30E-11**	**-2.30E-11**	**-2.10E-11**	**-1.60E-11**	**-1.60E-11**	**-1.30E-10**	**-1.50E-10**

Licensee Comments:

3Q/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/15**	**2Q/15**	**3Q/15**	**4Q/15**	**1Q/16**	**2Q/16**	**3Q/16**	**4Q/16**
UAI (ΔCDF)	4.28E-08	3.98E-08	3.61E-08	3.47E-08	3.52E-08	5.42E-08	2.61E-07	2.42E-07
URI (ΔCDF)	-4.34E-08	-4.28E-08	-4.27E-08	-4.26E-08	-4.81E-08	-4.20E-08	-2.12E-07	-2.13E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-5.50E-10**	**-3.00E-09**	**-6.60E-09**	**-7.90E-09**	**-1.30E-08**	**1.20E-08**	**4.90E-08**	**2.90E-08**

Licensee Comments:

3Q/16: 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	0.000151	0.000150	0.000162	0.000164	0.000151	0.000165	0.000178	0.000183	0.000178	0.000182	N/A	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	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**N/A**	**0.1**

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	0.000106	0.000183	0.000185	0.000200	0.000216	0.000200	0.000208	0.000214	0.000220	0.000216	0.000247	0.000245
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	**1/15**	**2/15**	**3/15**	**4/15**	**5/15**	**6/15**	**7/15**	**8/15**	**9/15**	**10/15**	**11/15**	**12/15**
Maximum leakage	0.150	0.120	0.120	0.100	0.090	0.370	0.200	0.190	0.180	0.170	0	0.249
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.5**	**1.2**	**1.2**	**1.0**	**0.9**	**3.7**	**2.0**	**1.9**	**1.8**	**1.7**	**0**	**2.5**
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	0.010	0.020	0.017	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
Technical specification limit	10.0	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**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

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	22.0	36.0	47.0	2.0	60.0	148.0	28.0	4.0
Total opportunities	22.0	36.0	49.0	2.0	62.0	151.0	28.0	4.0
Indicator value	**97.0%**	**97.4%**	**97.0%**	**97.2%**	**96.8%**	**96.9%**	**97.4%**	**98.0%**

Licensee Comments:

3Q/16: Individual performed DEP (Drill Exercise Performance) session 3rd quarter 2016 not placed into ERO until 4th quarter 2016. Value chg. from 19 to 20.

3Q/15: DEP miss in 2nd Month of 3rd quarter was re-evaluated based on discussion of similar issue identified in evaluated session in 2016 with NRC. The number of successful opportunities was increased to 22.

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	115.0	113.0	104.0	100.0	98.0	99.0	102.0	99.0
Total Key personnel	115.0	113.0	104.0	100.0	98.0	99.0	102.0	99.0
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	416	435	401	438	437	438	437	438
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**96.5%**	**97.3%**	**95.9%**	**96.5%**	**97.7%**	**97.8%**	**99.9%**	**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	**1**	**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: February 1, 2017

United States Nuclear Regulatory Commission
Protecting People and the Environment

Waterford 3 – 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)
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- Heat Removal Systems (MS08)
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- RETS/OCDM Radiological Effluent Occurrence (PR01)
- Protected Area Equipment (PP01)

Unplanned Scrams per 7000 Critical Hrs

Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Unplanned scrams	1.0	0	1.0	0	0	0	0	0
Critical hours	2079.8	2208.0	929.5	2183.0	2184.0	2208.0	2067.3	2159.0
Indicator value	**0.8**	**0.8**	**1.9**	**1.9**	**0.9**	**0.9**	**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	2.0	0	0	0	0	0	0	0
Critical hours	2079.8	2208.0	929.5	2183.0	2184.0	2208.0	2067.3	2159.0
Indicator value	**1.6**	**1.6**	**1.9**	**1.9**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Scrams with complications	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**

TOP

Licensee Comments: none

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	1	1	0	0	0	1	0
Indicator value	**2**	**3**	**2**	**2**	**2**	**1**	**1**	**1**

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Licensee Comments:
4Q/16: LER 2016-002-00 reported 10/11/2016 - Incident occurred August 12th 2016.
4Q/15: LER 2015-007-00 issued 10/23/2015. On 8/16/2015, Both A & B EDG declared inoperable, entry into TS 3.8.1.1 action f. - EDG A was declared inoperable following a trip on generator differential due to failed current transformer. Then EDG B, which was subsequently started per TS 3.8.1.1 action b(1), was declared inoperable due to exhaust fan not starting when diesel was started then TS 3.8.1.1 action f was entered.

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)	3.81E-07	5.69E-07	5.71E-07	5.55E-07	7.02E-07	1.61E-07	2.37E-07	1.56E-07
URI (ΔCDF)	-3.95E-07	3.57E-07	3.56E-07	3.49E-07	-9.46E-08	2.54E-07	2.78E-07	3.28E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**9.30E-07**	**9.30E-07**	**9.00E-07**	**6.10E-07**	**4.20E-07**	**5.10E-07**	**4.80E-07**

TOP

Licensee Comments:
1Q/17: Risk Cap Invoked.
4Q/16: Risk Cap Invoked.
4Q/16: Risk Cap Invoked. Changed PRA Parameter(s).
3Q/16: Risk Cap Invoked. Changed PRA Parameter(s).
3Q/16: Risk Cap Invoked. Changed PRA Parameter(s).
2Q/16: Risk Cap Invoked.
1Q/16: Risk Cap Invoked. The Generic Common Cause Failure (CCF) Factors applied to the Emergency Diesel Generator (EDG) runtime failure Birnbaum were not correct. The incorrect value of 1.0 should be changed to 1.25 per the guidance in NEI 99-02 Rev. 7. Ref. EC-63198.
4Q/15: Risk Cap Invoked.
3Q/15: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System

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

Notes

Mitigating Systems Performance Index, High Pressure Injection System	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-1.01E-08	-3.32E-10	-1.32E-09	-5.11E-09	-4.45E-09	-3.01E-09	-9.75E-09	-1.16E-08
URI (ΔCDF)	-9.24E-08	-9.26E-08	-9.11E-08	-8.93E-08	-8.88E-08	-1.41E-07	-1.41E-07	-1.39E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.00E-07**	**-9.30E-08**	**-9.20E-08**	**-9.40E-08**	**-9.30E-08**	**-1.40E-07**	**-1.50E-07**	**-1.50E-07**

TOP

Licensee Comments:
3Q/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	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	1.92E-08	1.86E-08	5.12E-09	-4.01E-08	-4.03E-08	-6.13E-08	-6.20E-08	-4.70E-08
URI (ΔCDF)	-3.19E-07	-3.21E-07	-3.26E-07	-3.13E-07	-3.13E-07	-1.63E-07	-1.60E-07	-1.30E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.00E-07**	**-3.00E-07**	**-3.20E-07**	**-3.50E-07**	**-3.50E-07**	**-2.20E-07**	**-2.20E-07**	**-1.80E-07**

TOP

Licensee Comments:
3Q/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	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	-1.07E-11	-1.07E-11	-8.56E-12	-3.88E-12	-3.47E-12	2.58E-11	0.00E+00	0.00E+00
URI (ΔCDF)	-1.25E-11	-1.22E-11	-1.22E-11	-1.20E-11	-1.22E-11	-1.57E-10	-1.54E-10	-1.10E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-11**	**-2.30E-11**	**-2.10E-11**	**-1.60E-11**	**-1.60E-11**	**-1.30E-10**	**-1.50E-10**	**-1.10E-10**

TOP

Licensee Comments:
3Q/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	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
UAI (ΔCDF)	3.98E-08	3.61E-08	3.47E-08	3.52E-08	5.42E-08	2.61E-07	2.42E-07	2.03E-07
URI (ΔCDF)	-4.28E-08	-4.27E-08	-4.26E-08	-4.81E-08	-4.20E-08	-2.12E-07	-2.13E-07	-1.86E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.00E-09**	**-6.60E-09**	**-7.90E-09**	**-1.30E-08**	**1.20E-08**	**4.90E-08**	**2.90E-08**	**1.70E-08**

TOP

Licensee Comments:
3Q/16: 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	0.000164	0.000151	0.000165	0.000178	0.000183	0.000178	0.000182	N/A	0.000984	0.000106	0.000183	0.000185
Technical specification limit	1.0	1.0	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**	**N/A**	**0.1**	**0**	**0**	**0**

Reactor Coolant System Activity	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17
Maximum activity	0.000200	0.000216	0.000200	0.000208	0.000214	0.000220	0.000216	0.000247	0.000245	0.000245	0.000247	0.000250
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Reactor Coolant System Leakage

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	4/15	5/15	6/15	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16
Maximum leakage	0.100	0.090	0.370	0.200	0.190	0.180	0.170	0	0.249	0.010	0.020	0.017
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.0**	**0.9**	**3.7**	**2.0**	**1.9**	**1.8**	**1.7**	**0**	**2.5**	**0.1**	**0.2**	**0.2**

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	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.010	0.020
Technical specification limit	10.0	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**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.2**

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	36.0	47.0	2.0	60.0	148.0	28.0	4.0	109.0
Total opportunities	36.0	49.0	2.0	62.0	151.0	28.0	4.0	112.0
Indicator value	**97.4%**	**97.0%**	**97.2%**	**96.8%**	**96.9%**	**97.4%**	**98.0%**	**97.7%**

TOP

Licensee Comments:
3Q/16: Individual performed DEP (Drill Exercise Performance) session 3rd quarter 2016 not placed into ERO until 4th quarter 2016. Value chg. from 19 to 20.
3Q/15: DEP miss in 2nd Month of 3rd quarter was re-evaluated based on discussion of similar issue identified in evaluated session in 2016 with NRC. The number of successful opportunities was increased to 22.

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Participating Key personnel	113.0	104.0	100.0	98.0	99.0	102.0	99.0	97.0
Total Key personnel	113.0	104.0	100.0	98.0	99.0	102.0	99.0	97.0
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	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
Successful siren-tests	435	401	438	437	438	437	438	438
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**97.3%**	**95.9%**	**96.5%**	**97.7%**	**97.8%**	**99.9%**	**99.9%**	**99.9%**

TOP

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	2Q/15	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

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

Current data as of: May 5, 2017

Page Last Reviewed/Updated Wednesday, June 07, 2017

United States Nuclear Regulatory Commission
Protecting People and the Environment

Waterford 3 – Quarterly Performance Indicators

2Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: none

On this page:

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- 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	1.0	0	0	0	0	0	0
Critical hours	2208.0	929.5	2183.0	2184.0	2208.0	2067.3	2159.0	1046.0
Indicator value	**0.8**	**1.9**	**1.9**	**0.9**	**0.9**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2208.0	929.5	2183.0	2184.0	2208.0	2067.3	2159.0	1046.0
Indicator value	**1.6**	**1.9**	**1.9**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	3Q/15	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	**1.0**	**1.0**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**

TOP

Licensee Comments: none

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	1	1	0	0	0	1	0	0
Indicator value	**3**	**2**	**2**	**2**	**1**	**1**	**1**	**1**

TOP

Licensee Comments:
4Q/16: LER 2016-002-00 reported 10/11/2016 - Incident occurred August 12th 2016.
4Q/15: LER 2015-007-00 issued 10/23/2015. On 8/16/2015, Both A & B EDG declared inoperable, entry into TS 3.8.1.1 action f. - EDG A was declared inoperable following a trip on generator differential due to failed current transformer. Then EDG B, which was subsequently started per TS 3.8.1.1 action b(1), was declared inoperable due to exhaust fan not starting when diesel was started then TS 3.8.1.1 action f was entered.

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)	5.69E-07	5.71E-07	5.55E-07	7.02E-07	1.61E-07	2.37E-07	1.56E-07	7.42E-08
URI (ΔCDF)	3.57E-07	3.56E-07	3.49E-07	-9.46E-08	2.54E-07	2.78E-07	3.28E-07	3.38E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.30E-07**	**9.30E-07**	**9.00E-07**	**6.10E-07**	**4.20E-07**	**5.10E-07**	**4.80E-07**	**4.10E-07**

TOP

Licensee Comments:
2Q/17: Risk Cap Invoked.
1Q/17: Risk Cap Invoked.
4Q/16: Risk Cap Invoked.
4Q/16: Risk Cap Invoked. Changed PRA Parameter(s).
3Q/16: Risk Cap Invoked. Changed PRA Parameter(s).
3Q/16: Risk Cap Invoked. Changed PRA Parameter(s).
2Q/16: Risk Cap Invoked.
1Q/16: Risk Cap Invoked. The Generic Common Cause Failure (CCF) Factors applied to the Emergency Diesel Generator (EDG) runtime failure Birnbaum were not correct. The incorrect value of 1.0 should be changed to 1.25 per the guidance in NEI 99-02 Rev. 7. Ref. EC-63198.
4Q/15: Risk Cap Invoked.
3Q/15: Risk Cap Invoked.

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)	-3.32E-10	-1.32E-09	-5.11E-09	-4.45E-09	-3.01E-09	-9.75E-09	-1.16E-08	-1.16E-08
URI (ΔCDF)	-9.26E-08	-9.11E-08	-8.93E-08	-8.88E-08	-1.41E-07	-1.41E-07	-1.39E-07	-1.45E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.30E-08**	**-9.20E-08**	**-9.40E-08**	**-9.30E-08**	**-1.40E-07**	**-1.50E-07**	**-1.50E-07**	**-1.60E-07**

TOP

Licensee Comments:
3Q/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)	1.86E-08	5.12E-09	-4.01E-08	-4.03E-08	-6.13E-08	-6.20E-08	-4.70E-08	-4.70E-08
URI (ΔCDF)	-3.21E-07	-3.26E-07	-3.13E-07	-3.13E-07	-1.63E-07	-1.60E-07	-1.30E-07	-1.32E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.00E-07**	**-3.20E-07**	**-3.50E-07**	**-3.50E-07**	**-2.20E-07**	**-2.20E-07**	**-1.80E-07**	**-1.80E-07**

TOP

Licensee Comments:
3Q/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)	-1.07E-11	-8.56E-12	-3.88E-12	-3.47E-12	2.58E-11	0.00E+00	0.00E+00	0.00E+00
URI (ΔCDF)	-1.22E-11	-1.22E-11	-1.20E-11	-1.22E-11	-1.57E-10	-1.54E-10	-1.10E-10	-1.01E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.30E-11**	**-2.10E-11**	**-1.60E-11**	**-1.60E-11**	**-1.30E-10**	**-1.50E-10**	**-1.10E-10**	**-1.00E-10**

TOP

Licensee Comments:
3Q/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)	3.61E-08	3.47E-08	3.52E-08	5.42E-08	2.61E-07	2.42E-07	2.03E-07	2.74E-07
URI (ΔCDF)	-4.27E-08	-4.26E-08	-4.81E-08	-4.20E-08	-2.12E-07	-2.13E-07	-1.86E-07	-1.89E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-6.60E-09**	**-7.90E-09**	**-1.30E-08**	**1.20E-08**	**4.90E-08**	**2.90E-08**	**1.70E-08**	**8.40E-08**

TOP

Licensee Comments:
3Q/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	0.000178	0.000183	0.000178	0.000182	N/A	0.000984	0.000106	0.000183	0.000185	0.000200	0.000216	0.000200
Technical specification limit	1.0	1.0	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**	**N/A**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17
Maximum activity	0.000208	0.000214	0.000220	0.000216	0.000247	0.000245	0.000245	0.000247	0.000250	0.000160	0	0.000088
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	7/15	8/15	9/15	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16
Maximum leakage	0.200	0.190	0.180	0.170	0	0.249	0.010	0.020	0.017	0.020	0.020	0.020
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**2.0**	**1.9**	**1.8**	**1.7**	**0**	**2.5**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

Reactor Coolant System Leakage	7/16	8/16	9/16	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17
Maximum leakage	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.010	0.020	0.010	0	0.060
Technical specification limit	10.0	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**	**0.2**	**0.2**	**0.2**	**0.1**	**0.2**	**0.1**	**0**	**0.6**

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	47.0	2.0	60.0	148.0	28.0	4.0	109.0	38.0
Total opportunities	49.0	2.0	62.0	151.0	28.0	4.0	112.0	38.0
Indicator value	**97.0%**	**97.2%**	**96.8%**	**96.9%**	**97.4%**	**98.0%**	**97.7%**	**97.8%**

TOP

Licensee Comments:
3Q/16: Individual performed DEP (Drill Exercise Performance) session 3rd quarter 2016 not placed into ERO until 4th quarter 2016. Value chg. from 19 to 20.
3Q/15: DEP miss in 2nd Month of 3rd quarter was re-evaluated based on discussion of similar issue identified in evaluated session in 2016 with NRC. The number of successful opportunities was increased to 22.

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	104.0	100.0	98.0	99.0	102.0	99.0	97.0	94.0
Total Key personnel	104.0	100.0	98.0	99.0	102.0	99.0	97.0	94.0
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	401	438	437	438	437	438	438	438
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**95.9%**	**96.5%**	**97.7%**	**97.8%**	**99.9%**	**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

Waterford 3 – 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)
- 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	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned scrams	1.0	0	0	0	0	0	0	1.0
Critical hours	929.5	2183.0	2184.0	2208.0	2067.3	2159.0	1046.0	1922.6
Indicator value	**1.9**	**1.9**	**0.9**	**0.9**	**0**	**0**	**0**	**1.0**

TOP

Licensee Comments: none

Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	929.5	2183.0	2184.0	2208.0	2067.3	2159.0	1046.0	1922.6
Indicator value	**1.9**	**1.9**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Scrams with complications	0	0	0	0	0	0	0	1.0
Indicator value	**1.0**	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**1.0**

TOP

Licensee Comments: none

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

TOP

Licensee Comments:
4Q/16: LER 2016-002-00 reported 10/11/2016 - Incident occurred August 12th 2016.
4Q/15: LER 2015-007-00 issued 10/23/2015. On 8/16/2015, Both A & B EDG declared inoperable, entry into TS 3.8.1.1 action f. - EDG A was declared inoperable following a trip on generator differential due to failed current transformer. Then EDG B, which was subsequently started per TS 3.8.1.1 action b(1), was declared inoperable due to exhaust fan not starting when diesel was started then TS 3.8.1.1 action f was entered.

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)	5.71E-07	5.55E-07	7.02E-07	1.61E-07	2.37E-07	1.56E-07	7.42E-08	7.74E-08
URI (ΔCDF)	3.56E-07	3.49E-07	-9.46E-08	2.54E-07	2.78E-07	3.28E-07	3.38E-07	3.35E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.30E-07**	**9.00E-07**	**6.10E-07**	**4.20E-07**	**5.10E-07**	**4.80E-07**	**4.10E-07**	**4.10E-07**

TOP

Licensee Comments:
3Q/17: Risk Cap Invoked.
2Q/17: Risk Cap Invoked.
1Q/17: Risk Cap Invoked.
4Q/16: Risk Cap Invoked. Changed PRA Parameter(s).
4Q/16: Risk Cap Invoked.
3Q/16: Risk Cap Invoked. Changed PRA Parameter(s).
3Q/16: Risk Cap Invoked. Changed PRA Parameter(s).
2Q/16: Risk Cap Invoked.
1Q/16: Risk Cap Invoked. The Generic Common Cause Failure (CCF) Factors applied to the Emergency Diesel Generator (EDG) runtime failure Birnbaum were not correct. The incorrect value of 1.0 should be changed to 1.25 per the guidance in NEI 99-02 Rev. 7. Ref. EC-63198.
4Q/15: Risk Cap Invoked.

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)	-1.32E-09	-5.11E-09	-4.45E-09	-3.01E-09	-9.75E-09	-1.16E-08	-1.16E-08	-1.16E-08
URI (ΔCDF)	-9.11E-08	-8.93E-08	-8.88E-08	-1.41E-07	-1.41E-07	-1.39E-07	-1.45E-07	-1.45E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.20E-08**	**-9.40E-08**	**-9.30E-08**	**-1.40E-07**	**-1.50E-07**	**-1.50E-07**	**-1.60E-07**	**-1.60E-07**

TOP

Licensee Comments:
3Q/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	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	5.12E-09	-4.01E-08	-4.03E-08	-6.13E-08	-6.20E-08	-4.70E-08	-4.70E-08	-4.70E-08
URI (ΔCDF)	-3.26E-07	-3.13E-07	-3.13E-07	-1.63E-07	-1.60E-07	-1.30E-07	-1.32E-07	-1.34E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.20E-07**	**-3.50E-07**	**-3.50E-07**	**-2.20E-07**	**-2.20E-07**	**-1.80E-07**	**-1.80E-07**	**-1.80E-07**

TOP

Licensee Comments:
3Q/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)	-8.56E-12	-3.88E-12	-3.47E-12	2.58E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00
URI (ΔCDF)	-1.22E-11	-1.20E-11	-1.22E-11	-1.57E-10	-1.54E-10	-1.10E-10	-1.01E-10	-1.04E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-2.10E-11**	**-1.60E-11**	**-1.60E-11**	**-1.30E-10**	**-1.50E-10**	**-1.10E-10**	**-1.00E-10**	**-1.00E-10**

TOP

Licensee Comments:
3Q/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	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
UAI (ΔCDF)	3.47E-08	3.52E-08	5.42E-08	2.61E-07	2.42E-07	2.03E-07	2.74E-07	2.63E-07
URI (ΔCDF)	-4.26E-08	-4.81E-08	-4.20E-08	-2.12E-07	-2.13E-07	-1.86E-07	-1.89E-07	-1.93E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-7.90E-09**	**-1.30E-08**	**1.20E-08**	**4.90E-08**	**2.90E-08**	**1.70E-08**	**8.40E-08**	**6.90E-08**

TOP

Licensee Comments:
3Q/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	0.000182	N/A	0.000984	0.000106	0.000183	0.000185	0.000200	0.000216	0.000200	0.000208	0.000214	0.000220
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0**	**N/A**	**0.1**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	10/16	11/16	12/16	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17
Maximum activity	0.000216	0.000247	0.000245	0.000245	0.000247	0.000250	0.000160	0	0.000088	0.000153	0.000119	0.000110
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	10/15	11/15	12/15	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16
Maximum leakage	0.170	0	0.249	0.010	0.020	0.017	0.020	0.020	0.020	0.020	0.020	0.020
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	**1.7**	**0**	**2.5**	**0.1**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

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	0.020	0.020	0.020	0.020	0.010	0.020	0.010	0	0.060	0.060	0.050	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	**0.2**	**0.2**	**0.2**	**0.2**	**0.1**	**0.2**	**0.1**	**0**	**0.6**	**0.6**	**0.5**	**0.4**

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	2.0	60.0	148.0	28.0	4.0	109.0	38.0	65.0
Total opportunities	2.0	62.0	151.0	28.0	4.0	112.0	38.0	66.0
Indicator value	**97.2%**	**96.8%**	**96.9%**	**97.4%**	**98.0%**	**97.7%**	**97.8%**	**98.1%**

TOP

Licensee Comments:
3Q/16: Individual performed DEP (Drill Exercise Performance) session 3rd quarter 2016 not placed into ERO until 4th quarter 2016. Value chg. from 19 to 20.

Notes

ERO Drill Participation	4Q/15	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17
Participating Key personnel	100.0	98.0	99.0	102.0	99.0	97.0	94.0	92.0
Total Key personnel	100.0	98.0	99.0	102.0	99.0	97.0	94.0	92.0
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	438	437	438	437	438	438	438	438
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**96.5%**	**97.7%**	**97.8%**	**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	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

Waterford 3 – Quarterly Performance Indicators

4Q/2017 Performance Indicators

The solid trend line represents the current reporting period.

Licensee's General Comments: Waterford 3 4th Quarter 2017 ROP Submittal

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	1.0	0
Critical hours	2183.0	2184.0	2208.0	2067.3	2159.0	1046.0	1922.6	2209.0
Indicator value	**1.9**	**0.9**	**0.9**	**0**	**0**	**0**	**1.0**	**1.0**

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	0	0	0	0	0	0
Critical hours	2183.0	2184.0	2208.0	2067.3	2159.0	1046.0	1922.6	2209.0
Indicator value	**1.9**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Scrams with complications	0	0	0	0	0	0	1.0	0
Indicator value	**1.0**	**0.0**	**0.0**	**0.0**	**0.0**	**0.0**	**1.0**	**1.0**

TOP

Licensee Comments: none

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

TOP

Licensee Comments:
4Q/16: LER 2016-002-00 reported 10/11/2016 - Incident occurred August 12th 2016.

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)	5.55E-07	7.02E-07	1.61E-07	2.37E-07	1.56E-07	7.42E-08	7.74E-08	1.14E-07
URI (ΔCDF)	3.49E-07	-9.46E-08	2.54E-07	2.78E-07	3.28E-07	3.38E-07	3.35E-07	3.32E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**9.00E-07**	**6.10E-07**	**4.20E-07**	**5.10E-07**	**4.80E-07**	**4.10E-07**	**4.10E-07**	**4.50E-07**

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Licensee Comments:
4Q/17: Risk Cap Invoked.
3Q/17: Risk Cap Invoked.
2Q/17: Risk Cap Invoked.
1Q/17: Risk Cap Invoked.
4Q/16: Risk Cap Invoked. Changed PRA Parameter(s).
4Q/16: Risk Cap Invoked.
3Q/16: Risk Cap Invoked. Changed PRA Parameter(s).
3Q/16: Risk Cap Invoked. Changed PRA Parameter(s).
2Q/16: Risk Cap Invoked.
1Q/16: Risk Cap Invoked. The Generic Common Cause Failure (CCF) Factors applied to the Emergency Diesel Generator (EDG) runtime failure Birnbaum were not correct. The incorrect value of 1.0 should be changed to 1.25 per the guidance in NEI 99-02 Rev. 7. Ref. EC-63198.

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)	-5.11E-09	-4.45E-09	-3.01E-09	-9.75E-09	-1.16E-08	-1.16E-08	-1.16E-08	-1.16E-08
URI (ΔCDF)	-8.93E-08	-8.88E-08	-1.41E-07	-1.41E-07	-1.39E-07	-1.45E-07	-1.45E-07	-1.45E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-9.40E-08**	**-9.30E-08**	**-1.40E-07**	**-1.50E-07**	**-1.50E-07**	**-1.60E-07**	**-1.60E-07**	**-1.60E-07**

TOP

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

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)	-4.01E-08	-4.03E-08	-6.13E-08	-6.20E-08	-4.70E-08	-4.70E-08	-4.70E-08	-4.70E-08
URI (ΔCDF)	-3.13E-07	-3.13E-07	-1.63E-07	-1.60E-07	-1.30E-07	-1.32E-07	-1.34E-07	-1.33E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-3.50E-07**	**-3.50E-07**	**-2.20E-07**	**-2.20E-07**	**-1.80E-07**	**-1.80E-07**	**-1.80E-07**	**-1.80E-07**

TOP

Licensee Comments:
3Q/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)	-3.88E-12	-3.47E-12	2.58E-11	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
URI (ΔCDF)	-1.20E-11	-1.22E-11	-1.57E-10	-1.54E-10	-1.10E-10	-1.01E-10	-1.04E-10	-1.06E-10
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.60E-11**	**-1.60E-11**	**-1.30E-10**	**-1.50E-10**	**-1.10E-10**	**-1.00E-10**	**-1.00E-10**	**-1.10E-10**

TOP

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

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)	3.52E-08	5.42E-08	2.61E-07	2.42E-07	2.03E-07	2.74E-07	2.63E-07	3.40E-07
URI (ΔCDF)	-4.81E-08	-4.20E-08	-2.12E-07	-2.13E-07	-1.86E-07	-1.89E-07	-1.93E-07	-1.94E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	**-1.30E-08**	**1.20E-08**	**4.90E-08**	**2.90E-08**	**1.70E-08**	**8.40E-08**	**6.90E-08**	**1.50E-07**

TOP

Licensee Comments:
3Q/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	0.000106	0.000183	0.000185	0.000200	0.000216	0.000200	0.000208	0.000214	0.000220	0.000216	0.000247	0.000245
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Reactor Coolant System Activity	1/17	2/17	3/17	4/17	5/17	6/17	7/17	8/17	9/17	10/17	11/17	12/17
Maximum activity	0.000245	0.000247	0.000250	0.000160	0	0.000088	0.000153	0.000119	0.000110	0.000113	0.000108	0.000111
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Leakage	1/16	2/16	3/16	4/16	5/16	6/16	7/16	8/16	9/16	10/16	11/16	12/16
Maximum leakage	0.010	0.020	0.017	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020
Technical specification limit	10.0	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**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**

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	0.020	0.010	0.020	0.010	0	0.060	0.060	0.050	0.040	0.030	0.110	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	**0.2**	**0.1**	**0.2**	**0.1**	**0**	**0.6**	**0.6**	**0.5**	**0.4**	**0.3**	**1.1**	**0.4**

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	60.0	148.0	28.0	4.0	109.0	38.0	65.0	45.0
Total opportunities	62.0	151.0	28.0	4.0	112.0	38.0	66.0	46.0
Indicator value	**96.8%**	**96.9%**	**97.4%**	**98.0%**	**97.7%**	**97.8%**	**98.1%**	**98.0%**

TOP

Licensee Comments:
3Q/16: Individual performed DEP (Drill Exercise Performance) session 3rd quarter 2016 not placed into ERO until 4th quarter 2016. Value chg. from 19 to 20.

Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
Participating Key personnel	98.0	99.0	102.0	99.0	97.0	94.0	92.0	95.0
Total Key personnel	98.0	99.0	102.0	99.0	97.0	94.0	92.0	95.0
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	437	438	437	438	438	438	438	438
Total sirens-tests	438	438	438	438	438	438	438	438
Indicator value	**97.7%**	**97.8%**	**99.9%**	**99.9%**	**99.9%**	**99.9%**	**100.0%**	**100.0%**

TOP

Licensee Comments: none

Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/16	2Q/16	3Q/16	4Q/16	1Q/17	2Q/17	3Q/17	4Q/17
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

TOP

Licensee Comments: none

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

Current data as of: February 1, 2018

Page Last Reviewed/Updated Monday, November 06, 2017